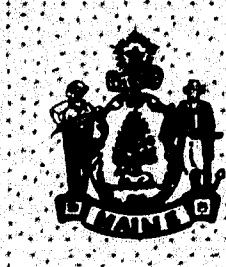


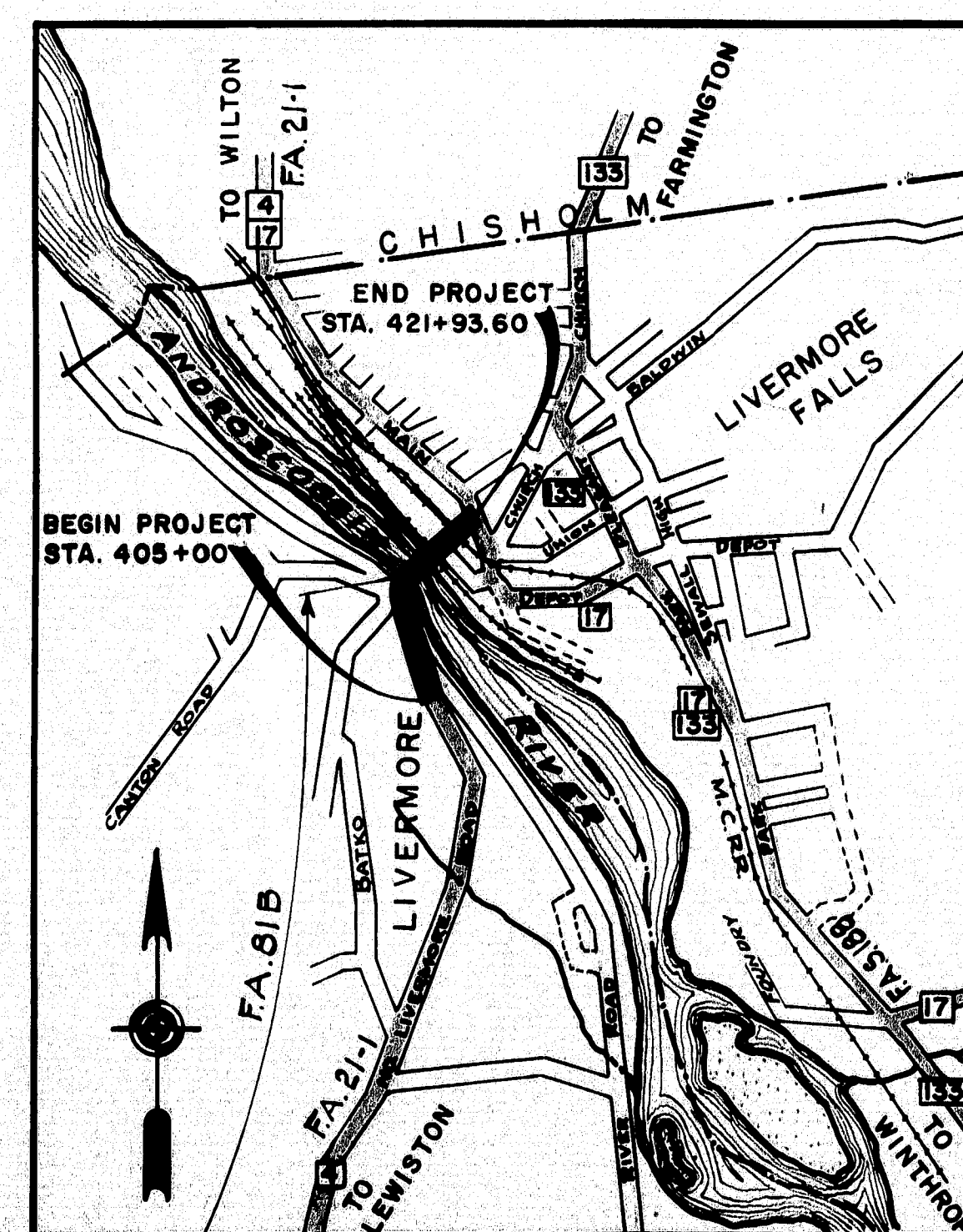
STATE OF MAINE STATE HIGHWAY COMMISSION



ANDROSCOGGIN RIVER BRIDGE BETWEEN THE TOWNS OF LIVERMORE - LIVERMORE FALLS ANDROSCOGGIN COUNTY

FEDERAL AID PROJECT NO. F-021-1(2)
LENGTH OF PROJECT 0.321 MILE

D. P. R. Map No.	STATE	FED. AID Proj. No.	SHEET NO.	TOTAL SHEETS
1	MAINE	F-021-1(2)	1	45



LOCATION MAP
SCALE: 1" = 1/4 MILE

TRAFFIC

A. D. T. - 1959 = 2825
A. D. T. - 1979 = 3760
D. H. V. = 560
D. = 60 %
T. = 12 %
V. = 50 mph south of
Sta. 410+00

INDEX OF SHEETS

1 - 1A	TITLE - GENERAL PLAN
2 - 8	SURVEY
9	FOUNDATION SURVEY
10, 11	CONSTRUCTION CENTER LINE PROFILES
12, 12A	HORIZONTAL CONTROL
13, 14	VERTICAL CONTROL
15	DRAINAGE
16	TYPICAL SECTIONS
17 - 24a	CROSS SECTIONS
25	RIVER ROAD RETAINING WALL
26	GENERAL PLAN AND ELEVATION (STRUCTURE)
27 - 29	ABUTMENTS
30	PIERS
31 - 35	STRUCTURAL STEEL
36 - 39	SUPERSTRUCTURE
40	RAIL DETAILS - BRIDGE
41	REINFORCING STEEL AND APPROACH LIGHTING
42	LIGHTING
43 - 45	STANDARDS

RELOCATION
TELEPHONE
CONDUIT

DESIGN SPECIFICATIONS

A. A. S. H. O. STANDARD SPECIFICATIONS FOR
HIGHWAY BRIDGES, 1953.
fs = 18,000 fc = 1200 n = 10

LOADING
H20 - S16 - 44

CONTRACT SPECIFICATIONS

STATE OF MAINE, STATE HIGHWAY COMMISSION
STANDARD SPECIFICATIONS, REVISION OF JAN. 1956.

CONCRETE CLASSIFICATION

CLASS A - SUPERSTRUCTURE, APPROACH SLABS, RAIL POSTS
ON ABUTMENTS & LIGHT STANDARD BASES.
CLASS B - ABUTMENTS & RETAINING WALLS, PIER SHAFTS
ABOVE EL. 308.00 & CULVERT END WALLS;
INTERNATIONAL PAPER CO. TOWER ENCASMENT.
CLASS S - PIER CONCRETE PLACED UNDER WATER.

APPROVED:
MAINE STATE HIGHWAY COMMISSION

David H. Stevens
CHAIRMAN

Clarence S. Crosby

Harold A. Fennell

Wayne W. Smith
CHIEF ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
REGION I

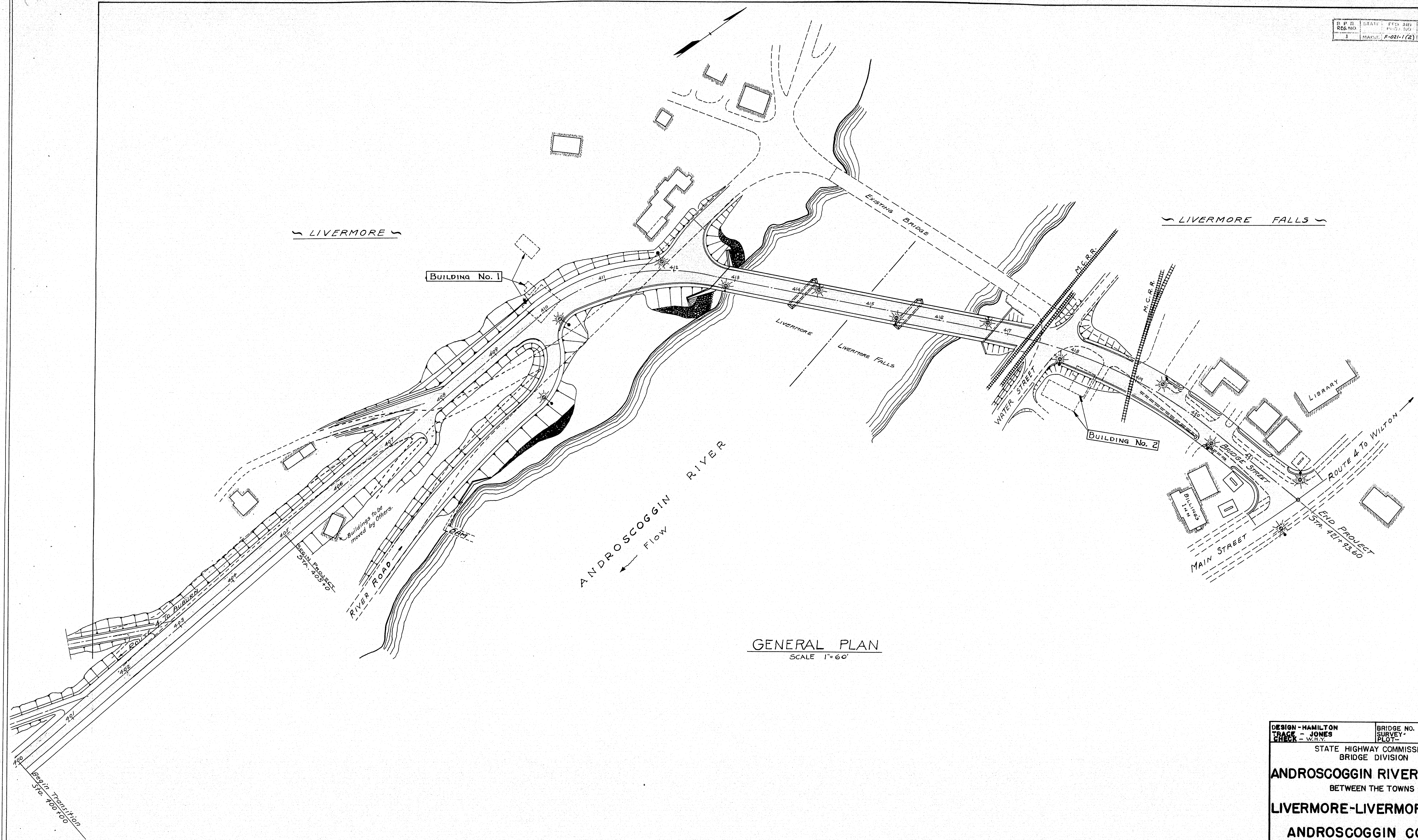
APPROVED:

DIVISION ENGINEER DATE

Revised sheet numbers. Harris. May 26, 1959
74-101

0 1 2 3 4 5 INCHES

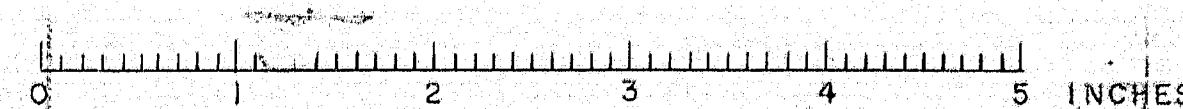
DESIGN	SECT	FILE NO.	SHEET	TOTAL
1	MAINT	7-102-1(2)	14	45



GENERAL PLAN
SCALE 1"=60'

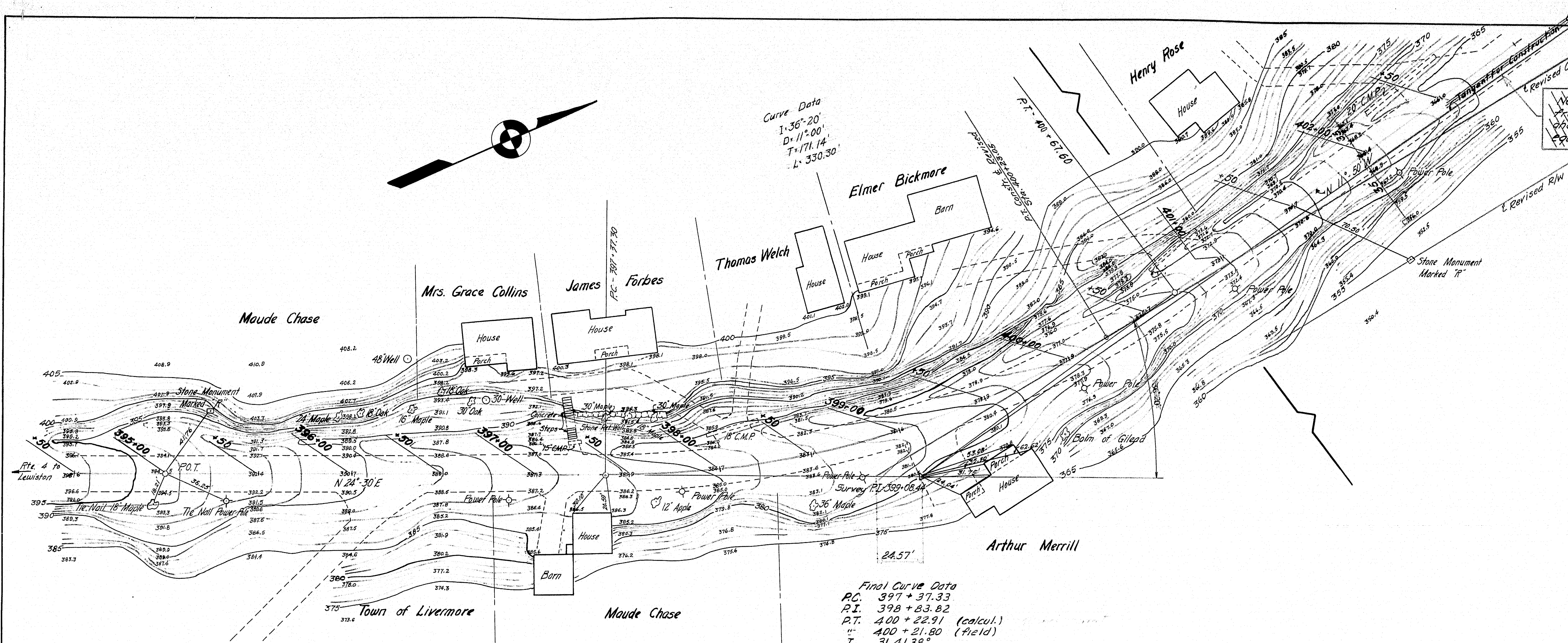
DESIGN - HAMILTON TRACE - JONES CHECK - WILLY	BRIDGE NO. SURVEY - PLAN -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ANDROSCOGGIN RIVER BRIDGE	
BETWEEN THE TOWNS OF	
LIVERMORE-LIVERMORE FALLS	
ANDROSCOGGIN COUNTY	
GENERAL PLAN	
SHEET 14 OF 45 AUGUSTA, MAINE MAR. 1958	
Revised west approach alignment. Harris, May 26, 1959	

74-102



BL. P. R.	STATE	FED. AID	CHRY.	TOTAL
Proj. No.	MAINE	F-02-172	2	45
Sheet No.				

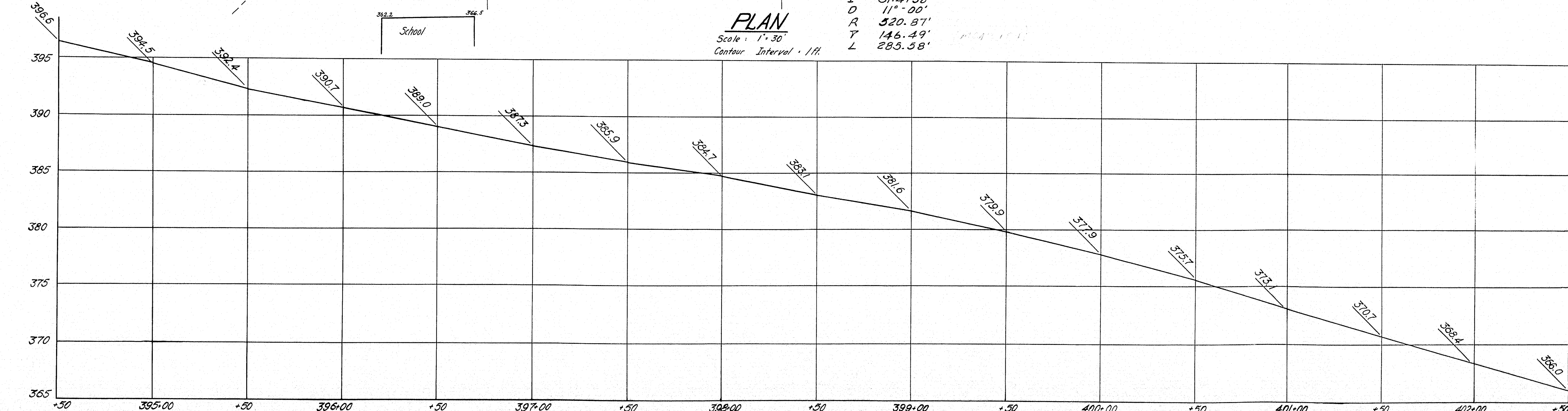
Note: Length of bridge from survey to center of bridge is 405.50 feet. 80.9 ft.



Curve Data
 $I = 36^{\circ}20'$
 $D = 11^{\circ}00'$
 $T = 171.14'$
 $L = 330.30'$

Final Curve Data
 $P.C. = 397 + 37.33$
 $P.T. = 398 + 83.62$
 $P.T. = 400 + 22.91$ (calcul.)
 $P.T. = 400 + 21.80$ (field)
 $I = 31.4138^{\circ}$
 $D = 11^{\circ}00'$
 $R = 520.87'$
 $T = 146.49'$
 $L = 285.58'$

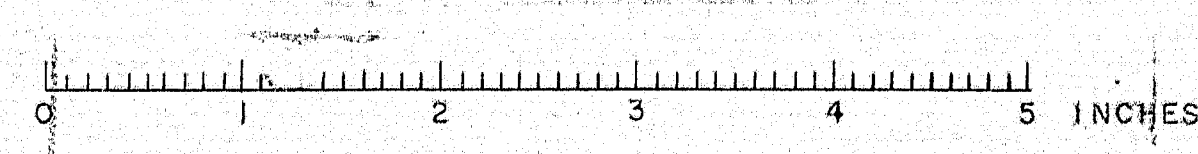
PLAN
 Scale: 1" = 30'
 Contour Interval: 1 ft.



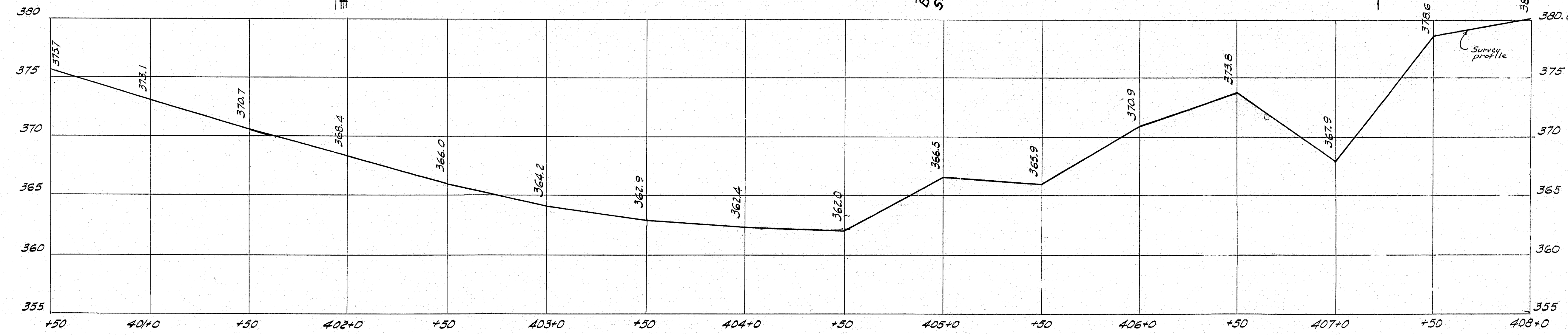
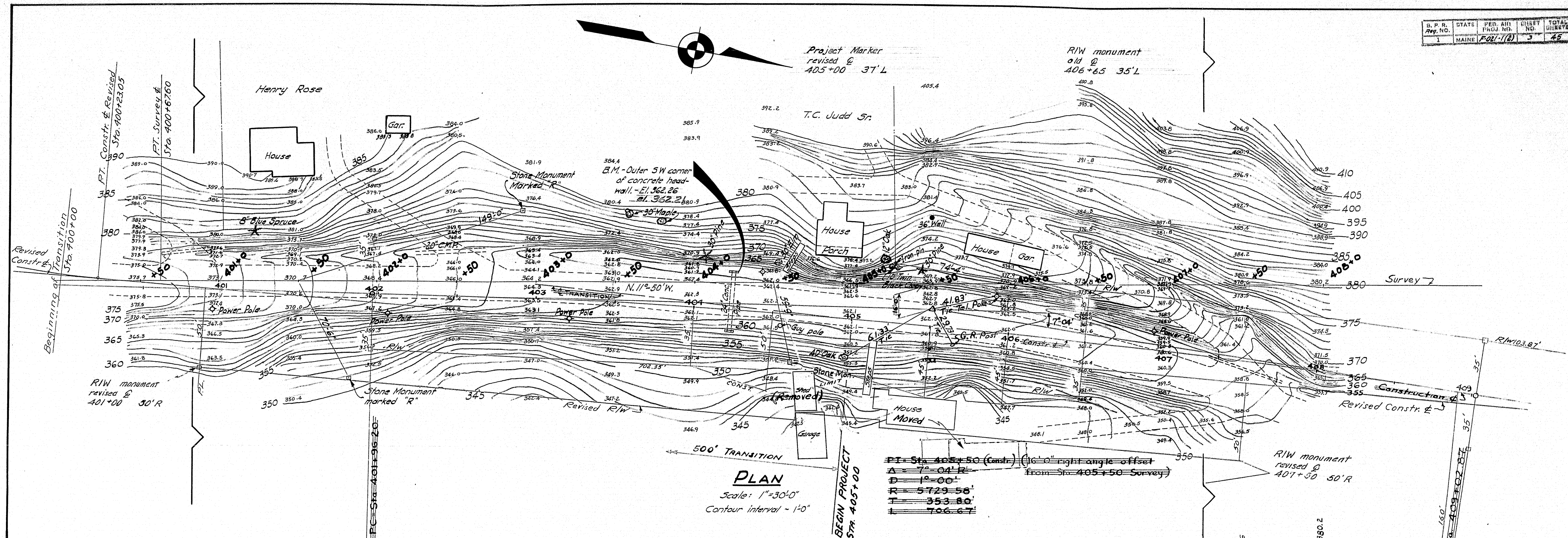
PROFILE ALONG SURVEY E
 Scales: { Horizontal: 1" = 30'
 Vertical: 1" = 5'

Final Revisions: Nov. 1959 P.M.

SURVEY - BLAKE PLOT & TRACE - FOSTER	
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ANDROSCOGGIN RIVER BRIDGE	
BETWEEN THE TOWNS OF LIVERMORE-LIVERMORE FALLS	
ANDROSCOGGIN COUNTY	
SURVEY	
SHEET 2 OF 45	AUGUSTA, MAINE JAN. 1955
Revised Constr. E & R/W lines. Harris, May 26, 1959	
74-103	



S. P. R.	STATE	FED. AID	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	F-02-17(2)	3	45	



PROFILE - SURVEY LINE
 Scale ~ Horizontal: 1" = 30'-0"
 Vertical: 1" = 5'

SURVEY - BLAKE
 PLOT & TRACE - FOSTER, G.W.C.

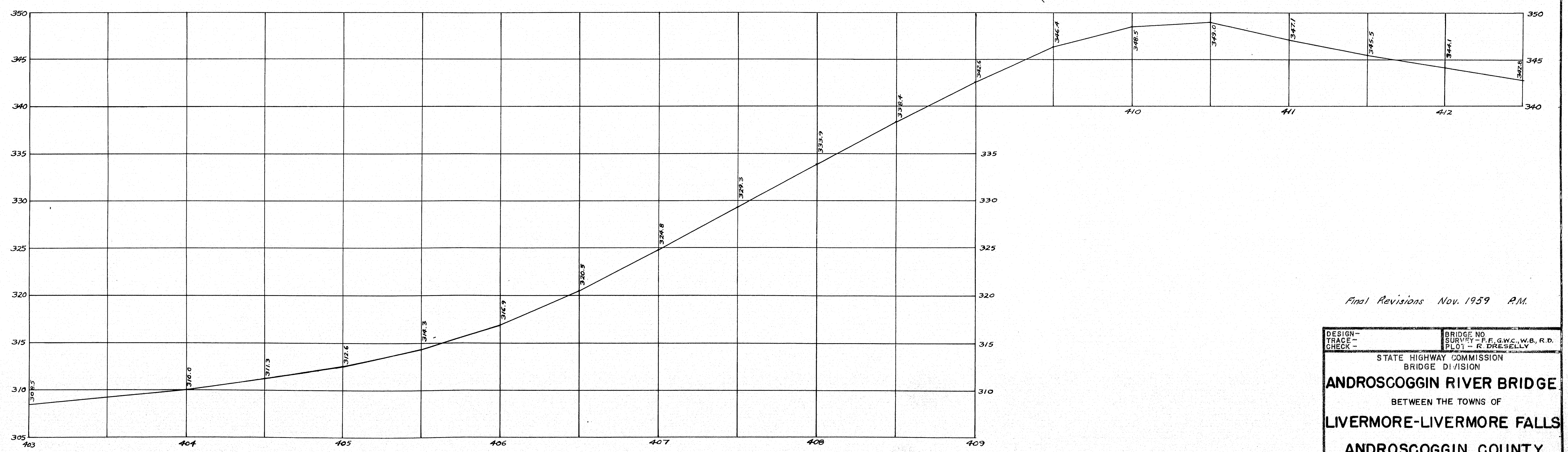
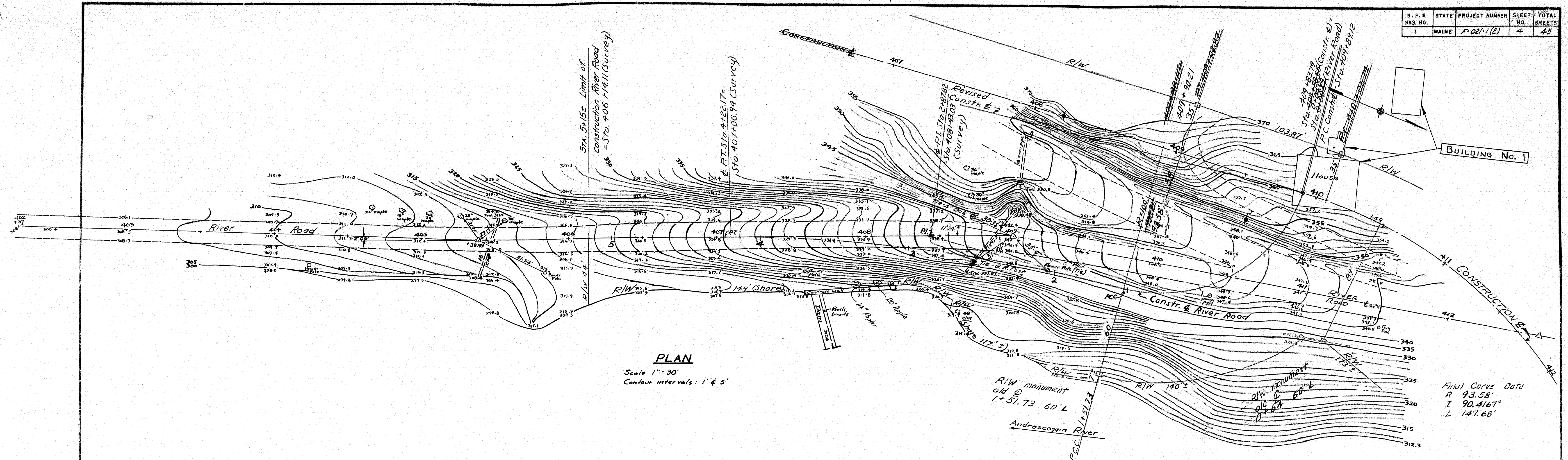
STATE HIGHWAY COMMISSION
 BRIDGE DIVISION

ANDROSCOGGIN RIVER BRIDGE
 BETWEEN THE TOWNS OF
LIVERMORE-LIVERMORE FALLS
ANDROSCOGGIN COUNTY

SURVEY
 SHEET 3 OF 45 AUGUSTA, MAINE JAN. 1958
 Revised Constr. & R/W lines. Harris. May 26, 1959

Revised 5-5-58 E.M.

S. P. R.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-02-1(2)	4	45

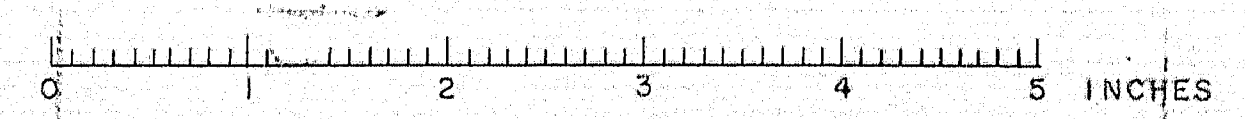


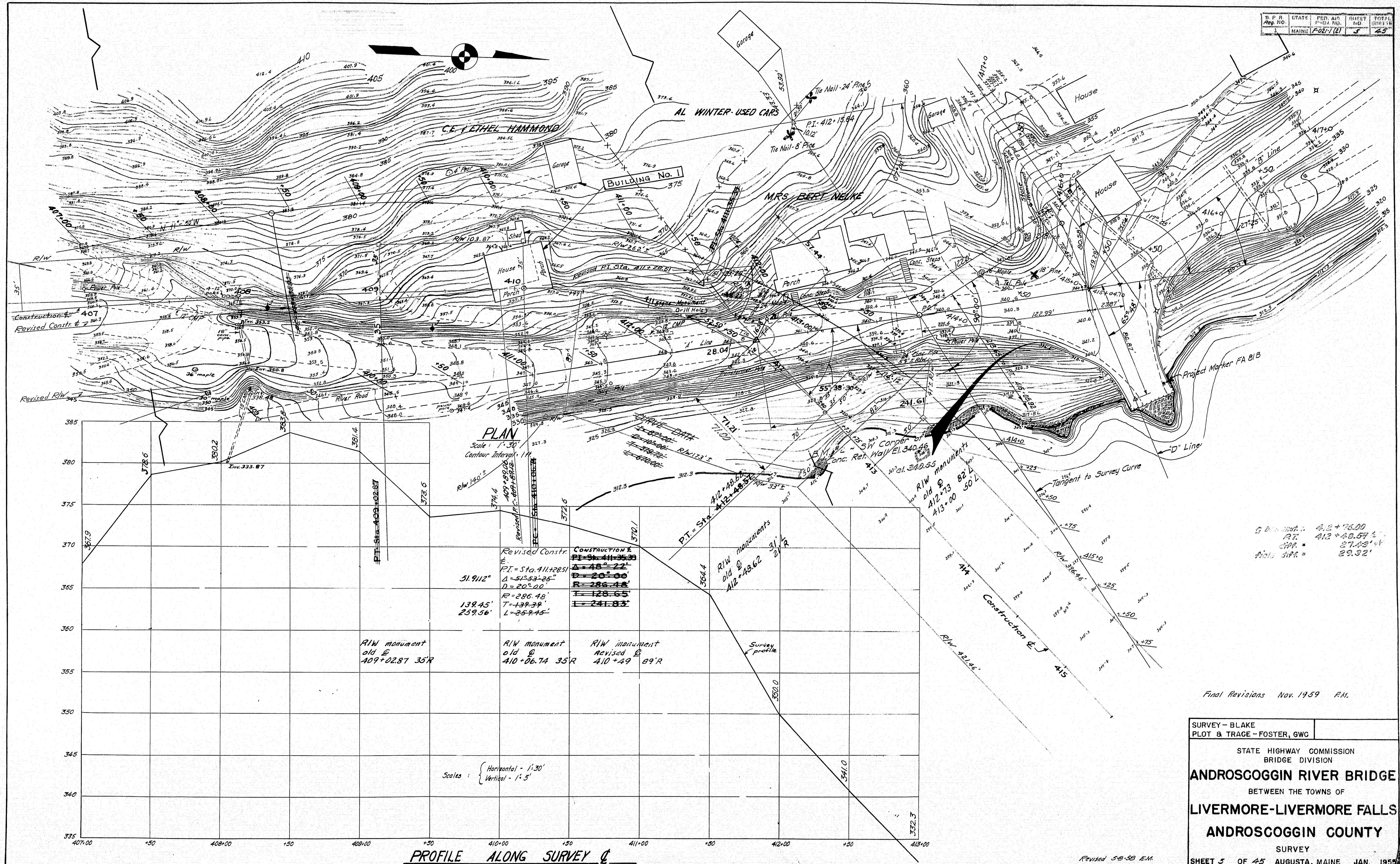
Final Revisions Nov. 1959 P.M.

DESIGN -	BRIDGE NO.
TRACE -	SURVEY - F.F. G.W.C., W.B., R.D.
CHECK -	PLOT - R. DRESELLEY
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ANDROSCOGGIN RIVER BRIDGE	
BETWEEN THE TOWNS OF LIVERMORE-LIVERMORE FALLS	
ANDROSCOGGIN COUNTY	
SURVEY (RIVER ROAD)	
SHEET 4 OF 45	AUGUSTA, MAINE NOV. 1957.

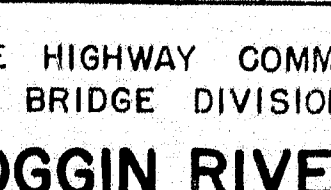
Revised Const. E. Harris, May 26, 1959

74-105 5





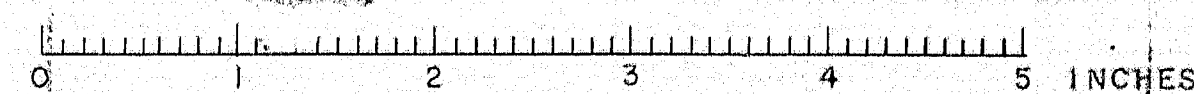
Final Revisions Nov. 1959 P.M.

SURVEY - BLAKE		
PLOT & TRACE - FOSTER, GWG		
<p style="text-align: center;">STATE HIGHWAY COMMISSION BRIDGE DIVISION</p> <p style="text-align: center;">ANDROSCOGGIN RIVER BRIDGE</p> <p style="text-align: center;">BETWEEN THE TOWNS OF</p> <p style="text-align: center;">LIVERMORE-LIVERMORE FALLS</p> <p style="text-align: center;">ANDROSCOGGIN COUNTY</p> <p style="text-align: center;">SURVEY</p>		
<p>SHEET 5 OF 45 AUGUSTA, MAINE JAN. 1959</p> <p><i>Revised Constr. E. Harris. May 26, 1959</i></p>		

Revised 5-8-58 E.M.

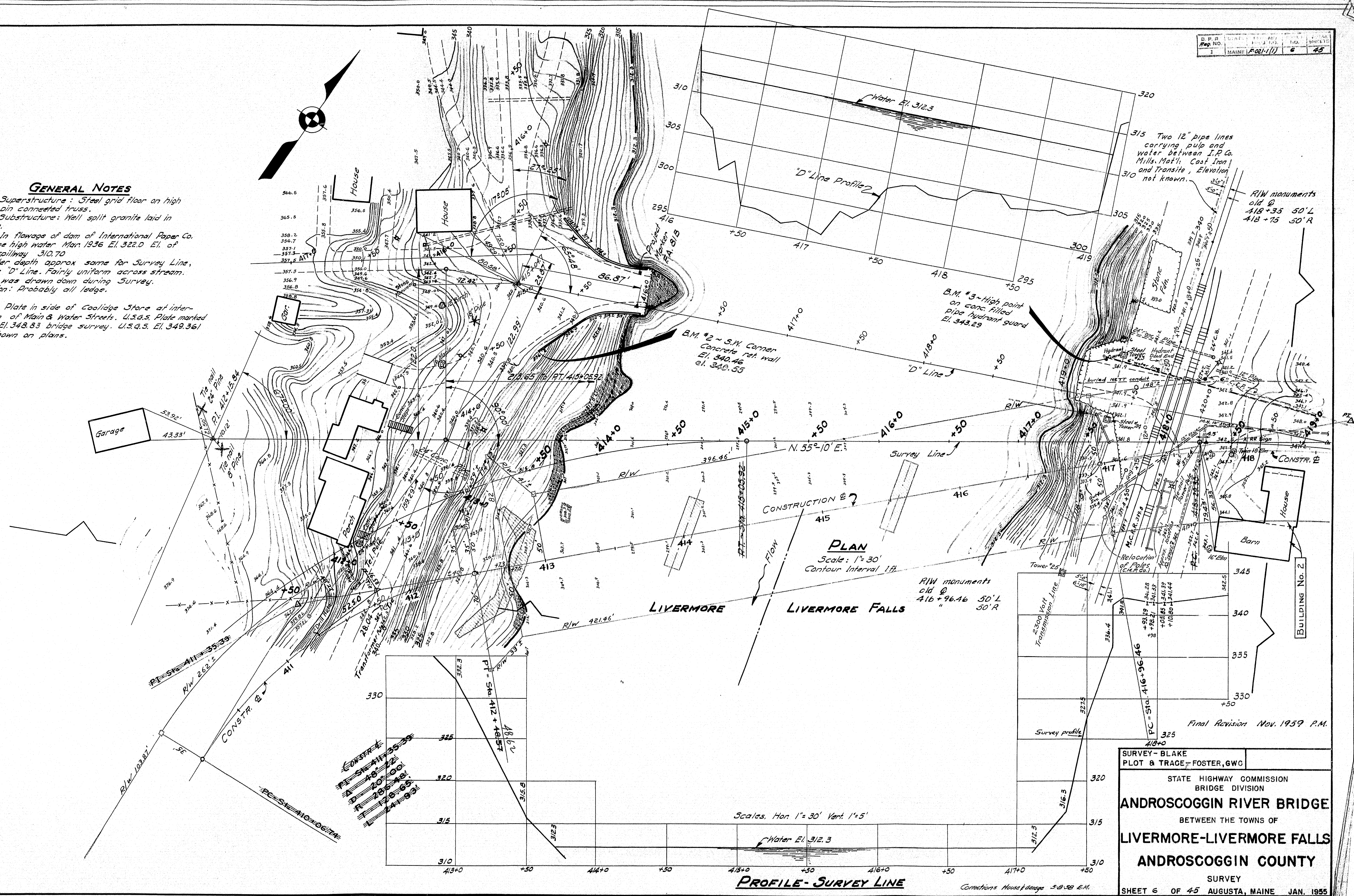
Revised Constr. E. Harris. May 26, 1959

74-106



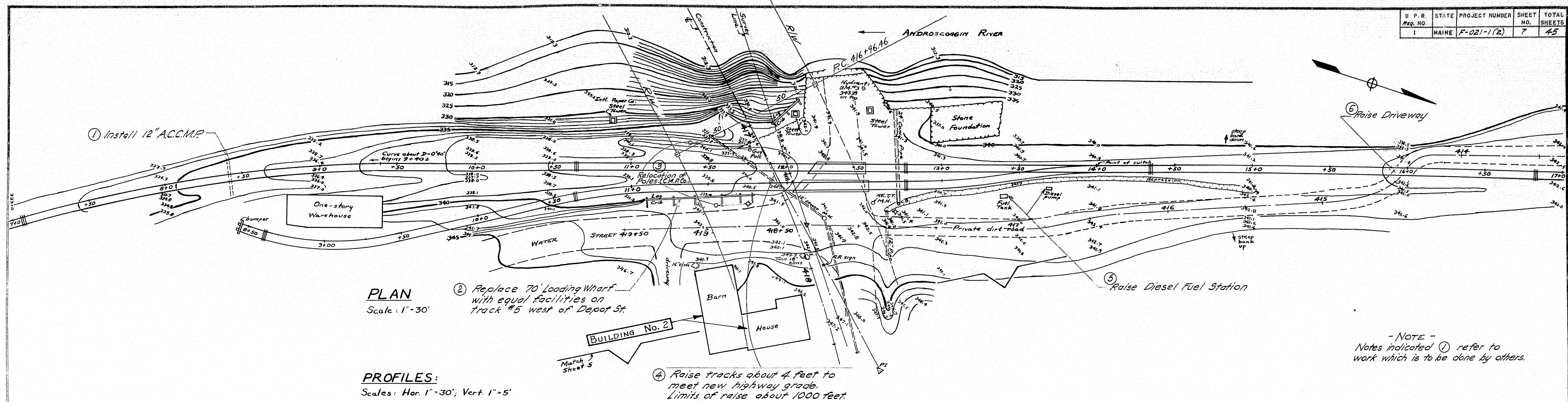
GENERAL NOTES

Existing Superstructure: Steel grid floor on high steel pin connected truss.
 Existing Substructure: Well split granite laid in mortar.
 Stream: In flowage of dam of International Paper Co. Extreme high water Mar. 1936 El. 322.0 El. of dam spillway 310.70
 Water depth approx same for Survey Line, as for "D" Line. Fairly uniform across stream. Water was drawn down during Survey.
 Foundation: Probably all ledge.
 B.M. #4 - Plate in side of Coolidge Store at intersection of Main & Water Streets. U.S.G.S. Plate marked Reset El. 348.83 bridge survey. U.S.G.S. El. 349.361 not shown on plans.



SURVEY - BLAKE
 PLOT & TRACE - FOSTER, GWC
 STATE HIGHWAY COMMISSION
 BRIDGE DIVISION
ANDROSCOGGIN RIVER BRIDGE
 BETWEEN THE TOWNS OF
LIVERMORE-LIVERMORE FALLS
ANDROSCOGGIN COUNTY
 SURVEY
 SHEET 6 OF 45 AUGUSTA, MAINE JAN. 1955
 Revised Constr. & Harris, May 26, 1959

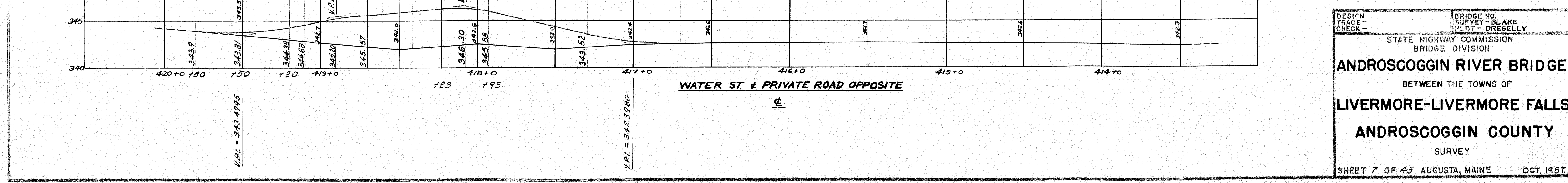
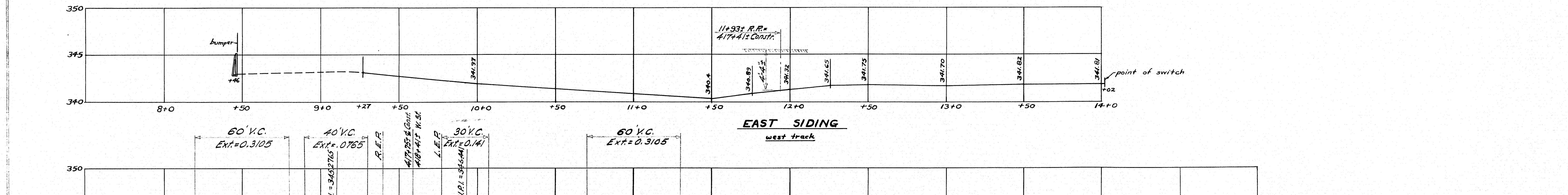
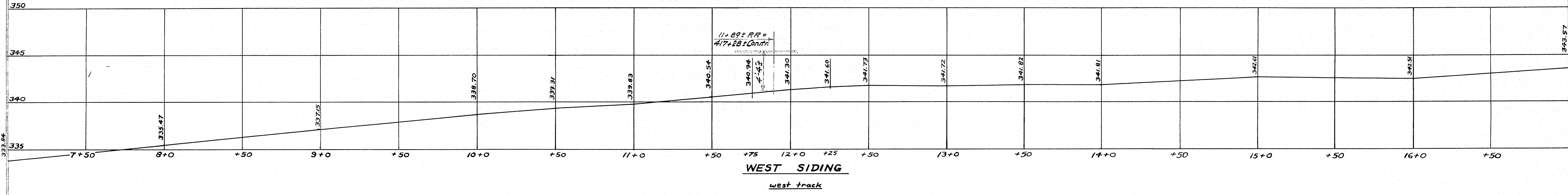
S. P. R.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-021-1(2)	7	45



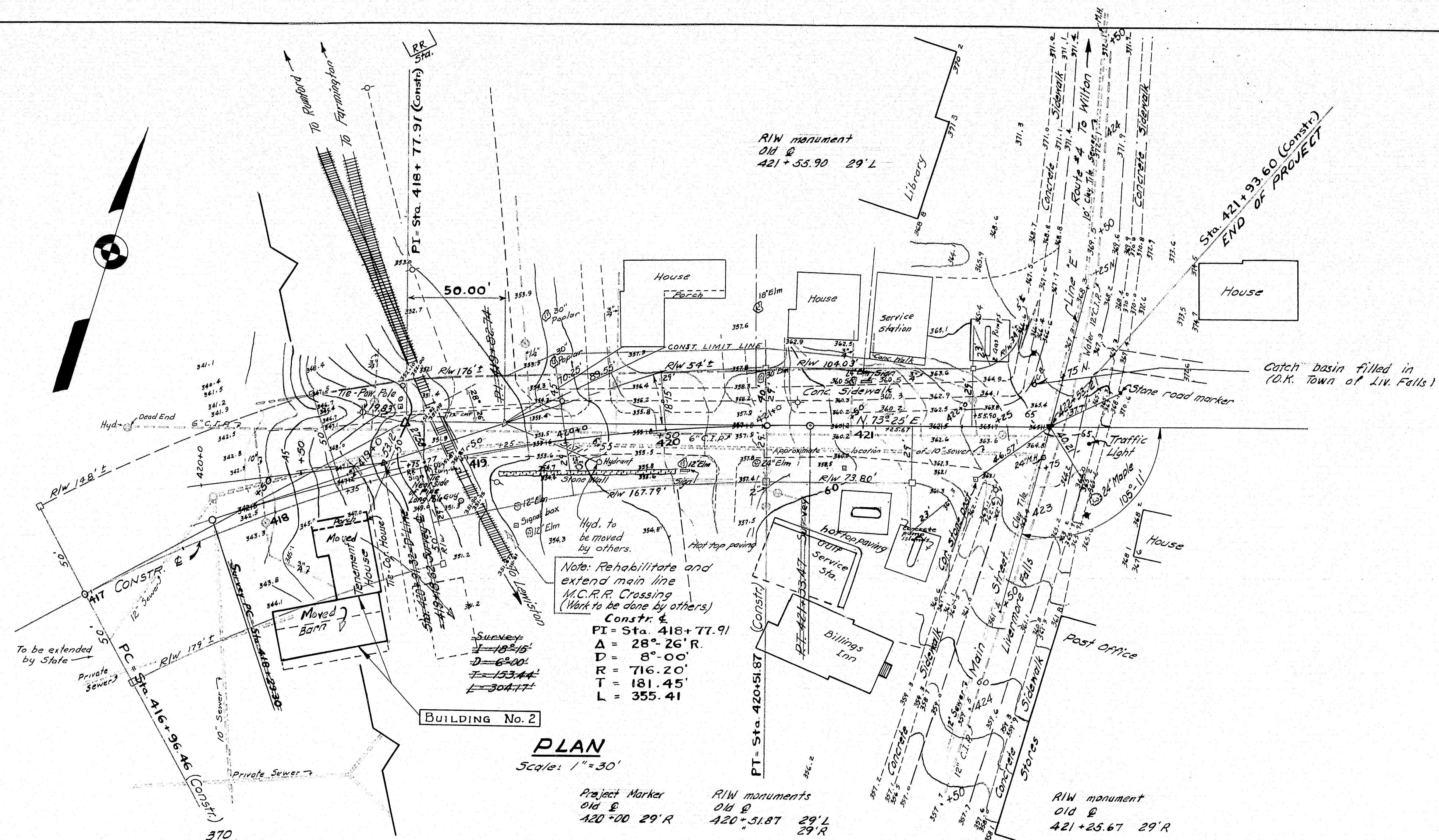
PLAN
Scale: 1" = 30'

PROFILES:
Scales: Hor. 1" = 30'; Vert. 1" = 5'

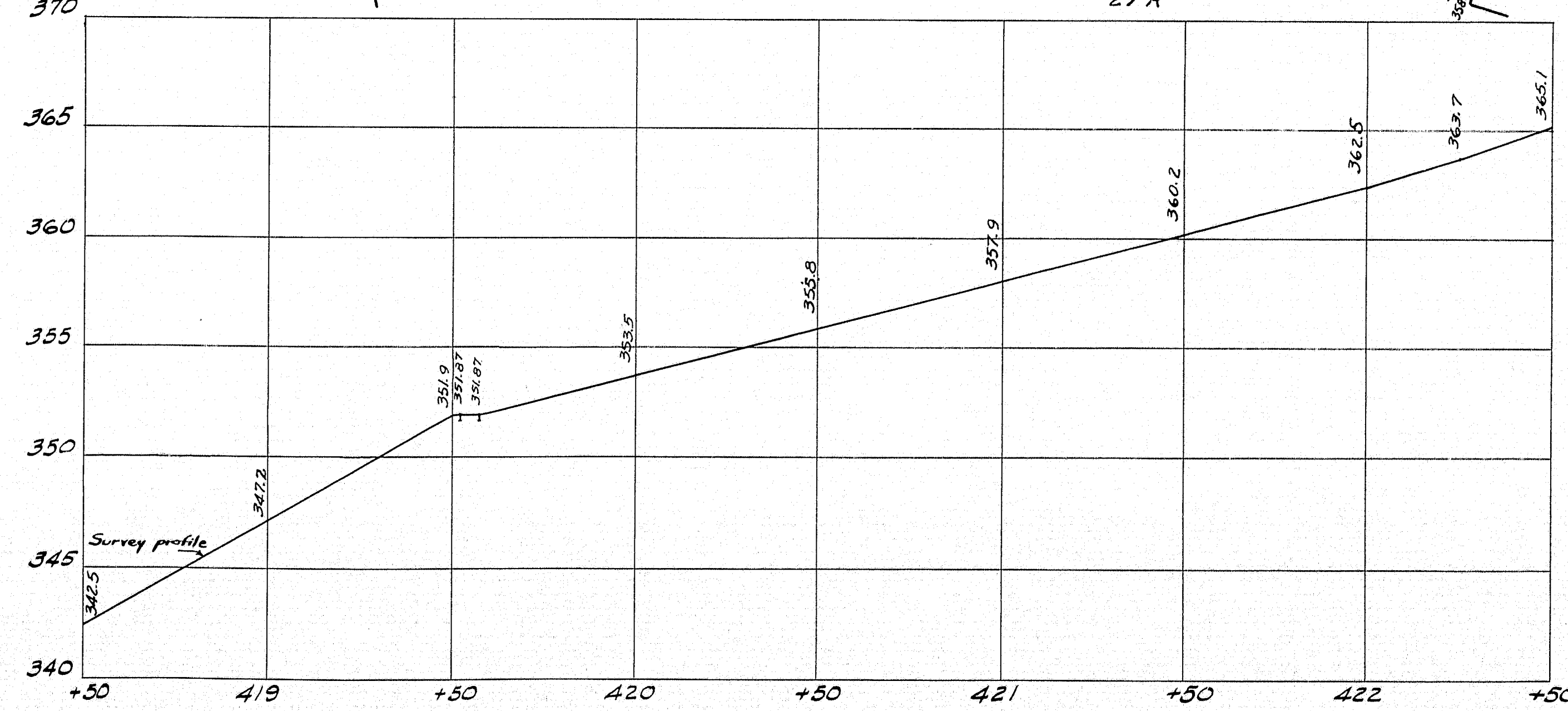
- NOTE -
Notes indicated ① refer to work which is to be done by others.



DESIGN TRACE CHECK	BRIDGE NO. SURVEY BLAKE PILOT - DRESELLY
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ANDROSCOGGIN RIVER BRIDGE	
BETWEEN THE TOWNS OF LIVERMORE-LIVERMORE FALLS	
ANDROSCOGGIN COUNTY	
SURVEY	
SHEET 7 OF 45 AUGUSTA, MAINE	OCT. 1957



PLAN
Scale: 1" = 30'

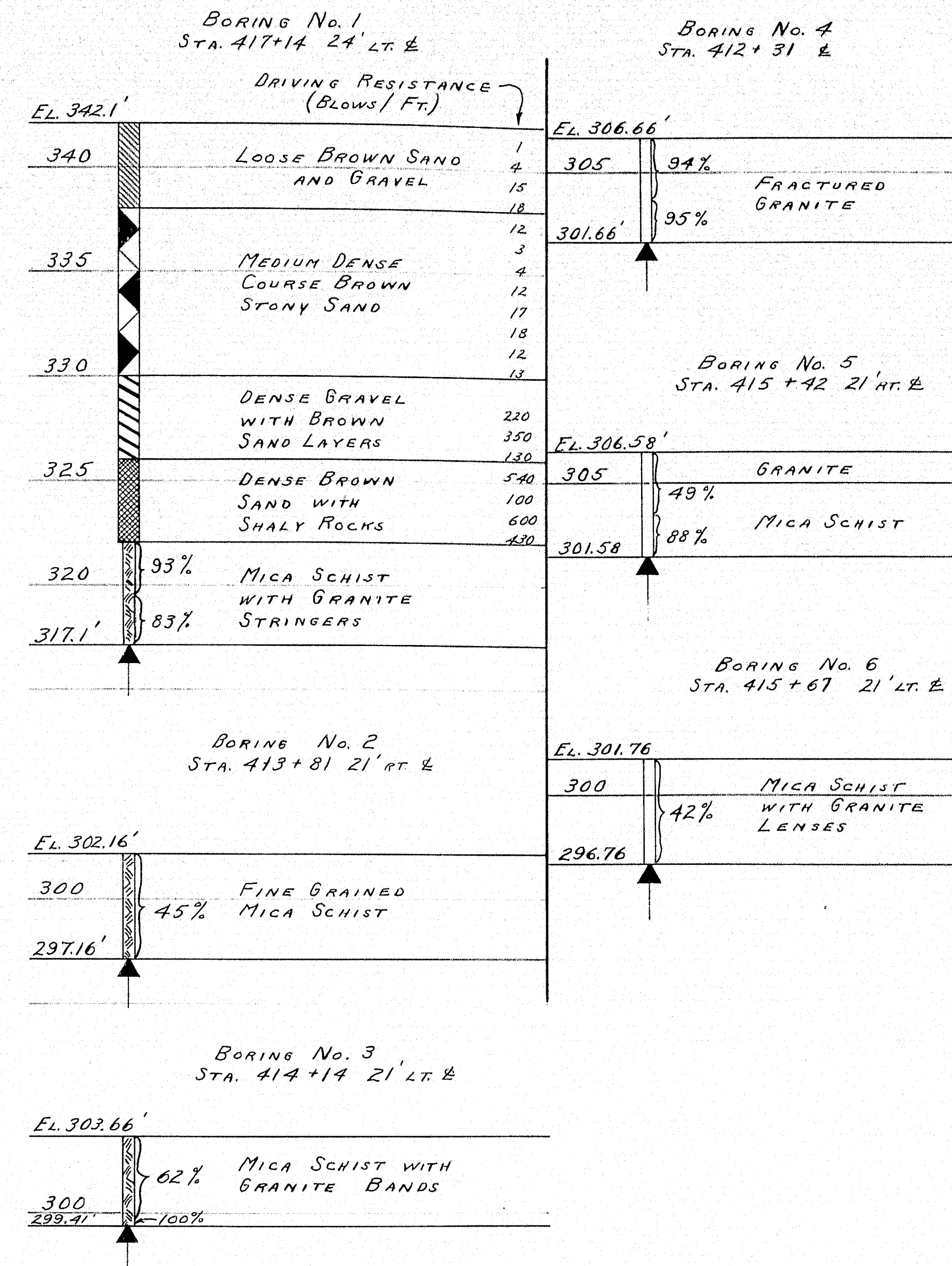
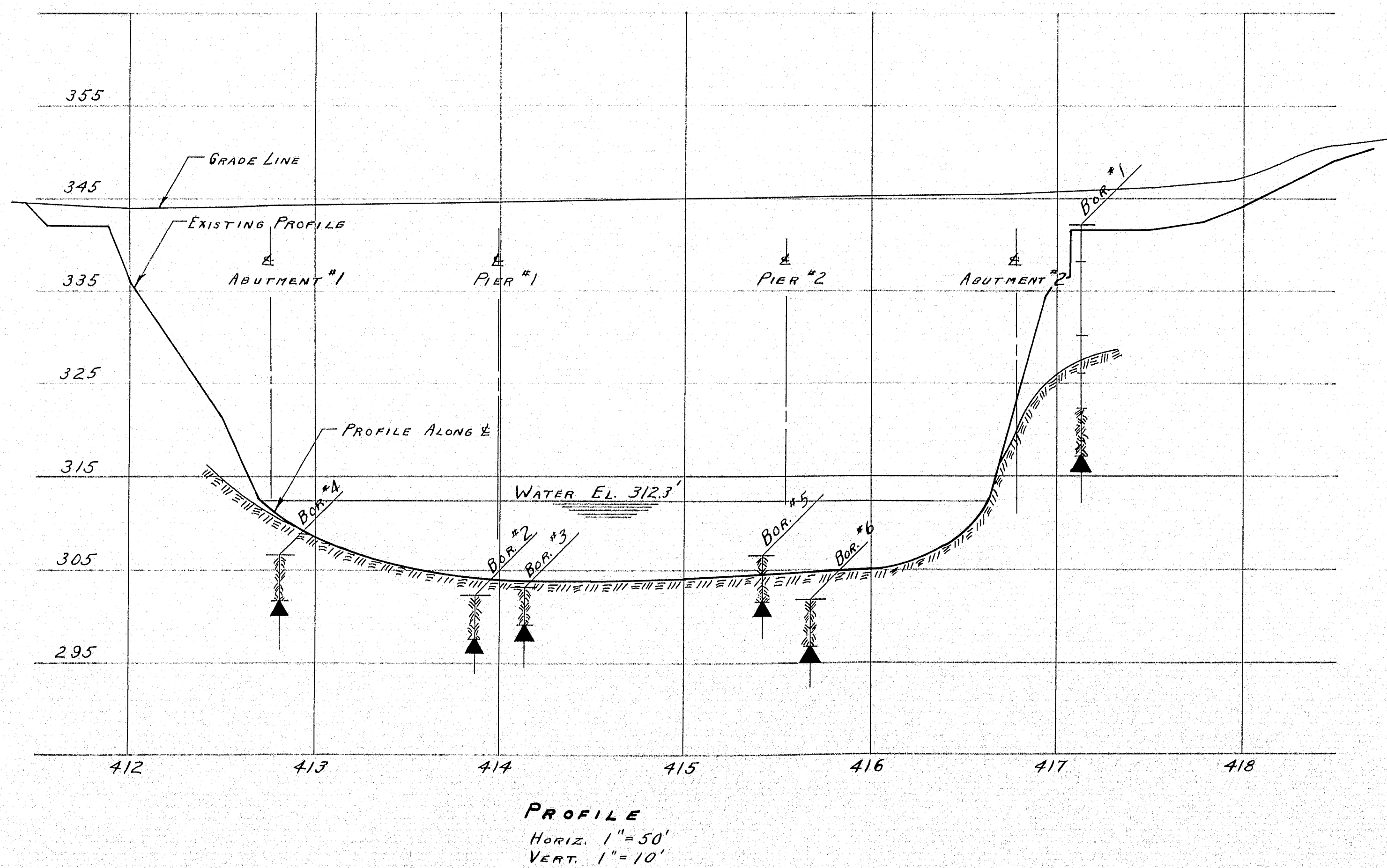
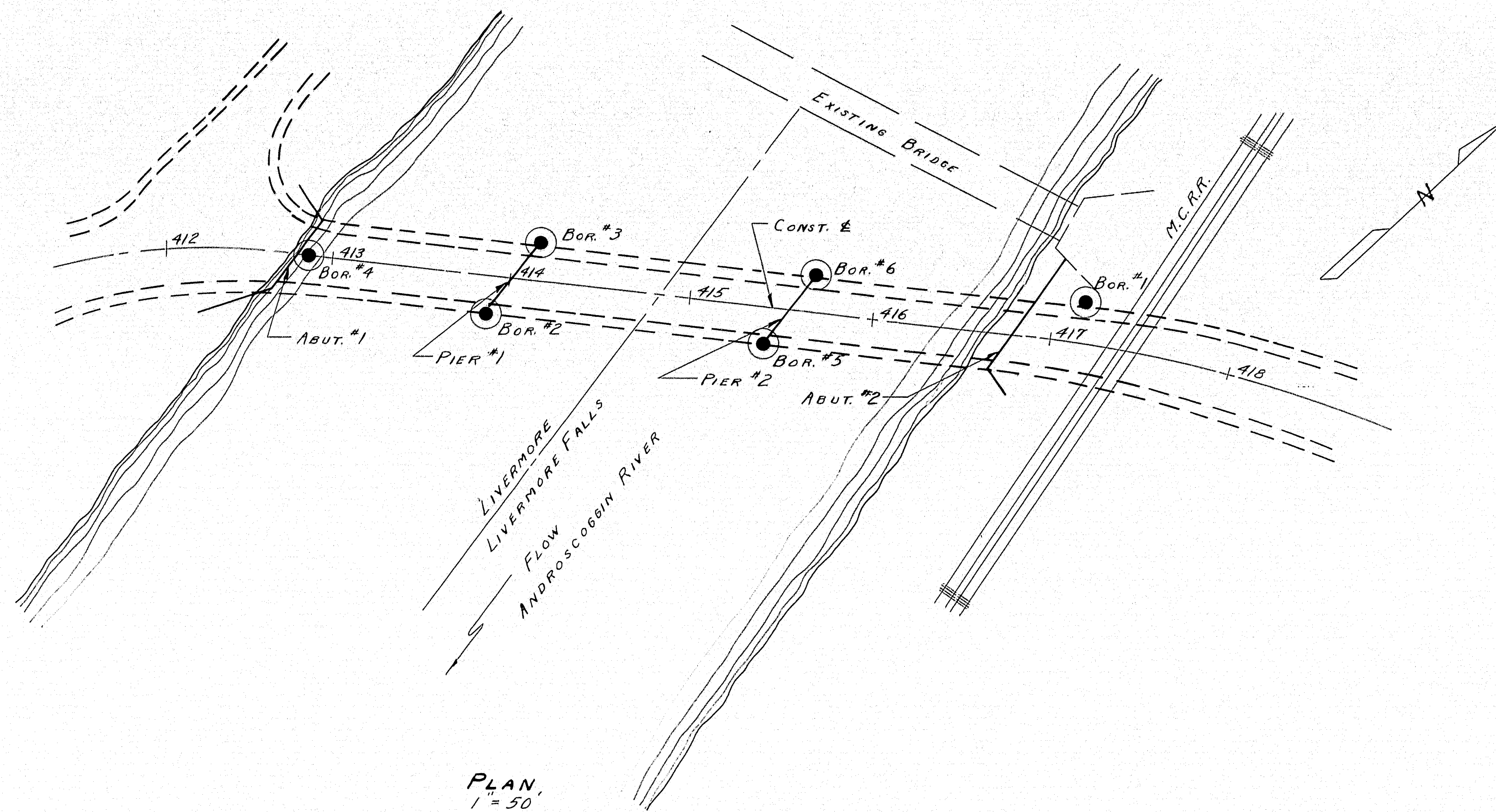


PROFILE - SURVEY LINE
Scale: Hor. 1" = 30' Vert. 1" = 5'

Final Revisions Nov. 1959 P.M.

SURVEY - BLAKE	
PLOT & TRACE - FOSTER, GWC	
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ANDROSCOGGIN RIVER BRIDGE	
BETWEEN THE TOWNS OF	
LIVERMORE-LIVERMORE FALLS	
ANDROSCOGGIN COUNTY	
SURVEY	
SHEET 2	OF 45 AUGUSTA, MAINE JAN. 1955

Billings Inn revised and Gulf Station added, 12-26-56, B.B. Well revised, signs added 5-3-58 E.M.



BORING LOGS
1" = 5'

BORING NOTES

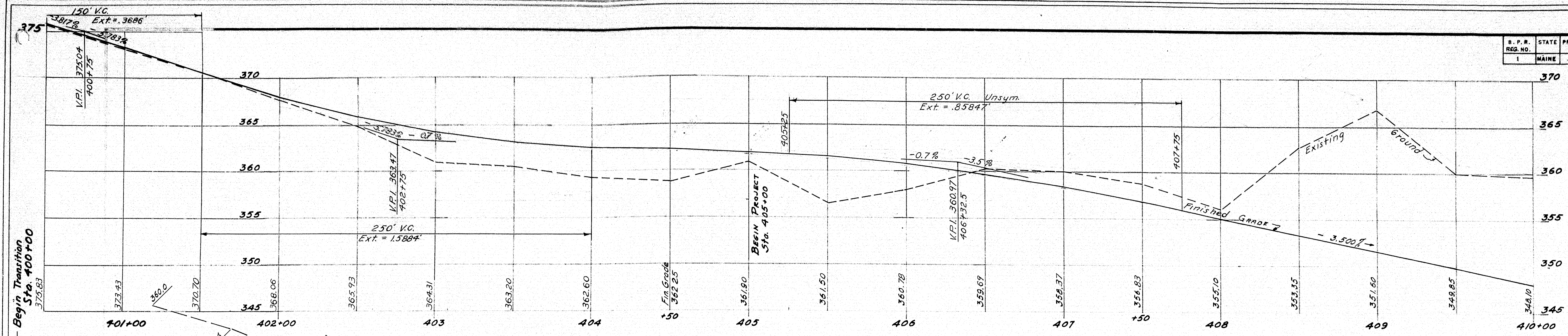
- Scales as noted on drawings.
- Number of blows of 275# hammer falling 18 inches required to drive extra heavy casing one foot thus:-----40
- Bottom of boring indicated thus:-----71%
- Percent recovery of rock core by diamond bit thus:-----

Field Foundation Data: Jan. '59 P.M.

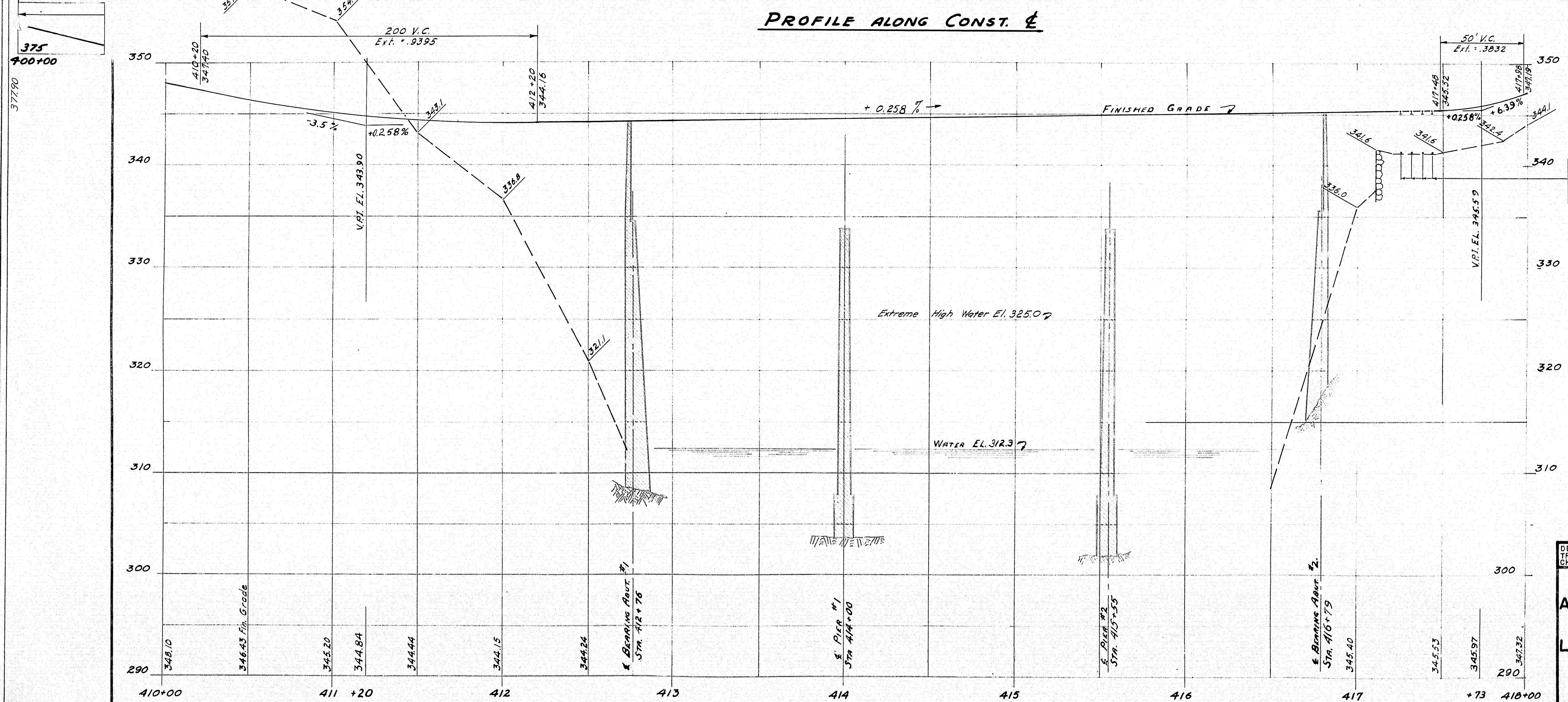
abut. 1: U.S. end wing	314.6 ± ave.
" turn	313.3 ± "
"	306.3 ± "
D.S. turn	312.8 ± "
" end wing	318.1 ± "
pier 1: U.S. end	295.6 ± "
"	303.2 ± "
D.S. end	303.5 ± "
pier 2: U.S. end	304.8 ± "
"	304.6 ± "
D.S. end	302.7 ± "
abut. 2: U.S. end wing	328.9 ± "
" turn	317.0 ± "
"	320.3 ± "
D.S. turn	317.8 ± "
" end wing	323.1 ± "

DESIGN -	BRIDGE NO.
TRACE - F. SMITH	SURVEY -
CHECK - C.F.W.	PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ANDROSCOGGIN RIVER BRIDGE	
BETWEEN THE TOWNS OF	
LIVERMORE-LIVERMORE FALLS	
ANDROSCOGGIN COUNTY	
FOUNDATION SURVEY	
SHEET 9 OF 45 AUGUSTA, MAINE JAN. 1958	

S. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-021-1(R)	10	45



PROFILE ALONG CONST. E



Note: Existing M.C.R.R. Tracks to be adjusted to grade of new approach to bridge.

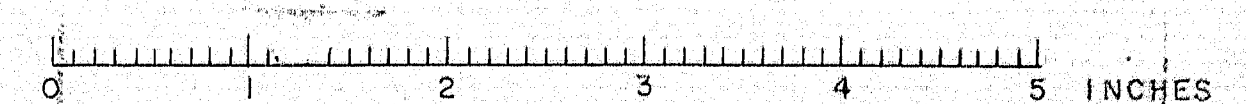
PROFILE ALONG CONST. E

DESIGN - *H. H. Jones* DET. H. Jones
 TRACE - *F. Porter* SURVEY -
 CHECK - *W. H. H.* PLOT -

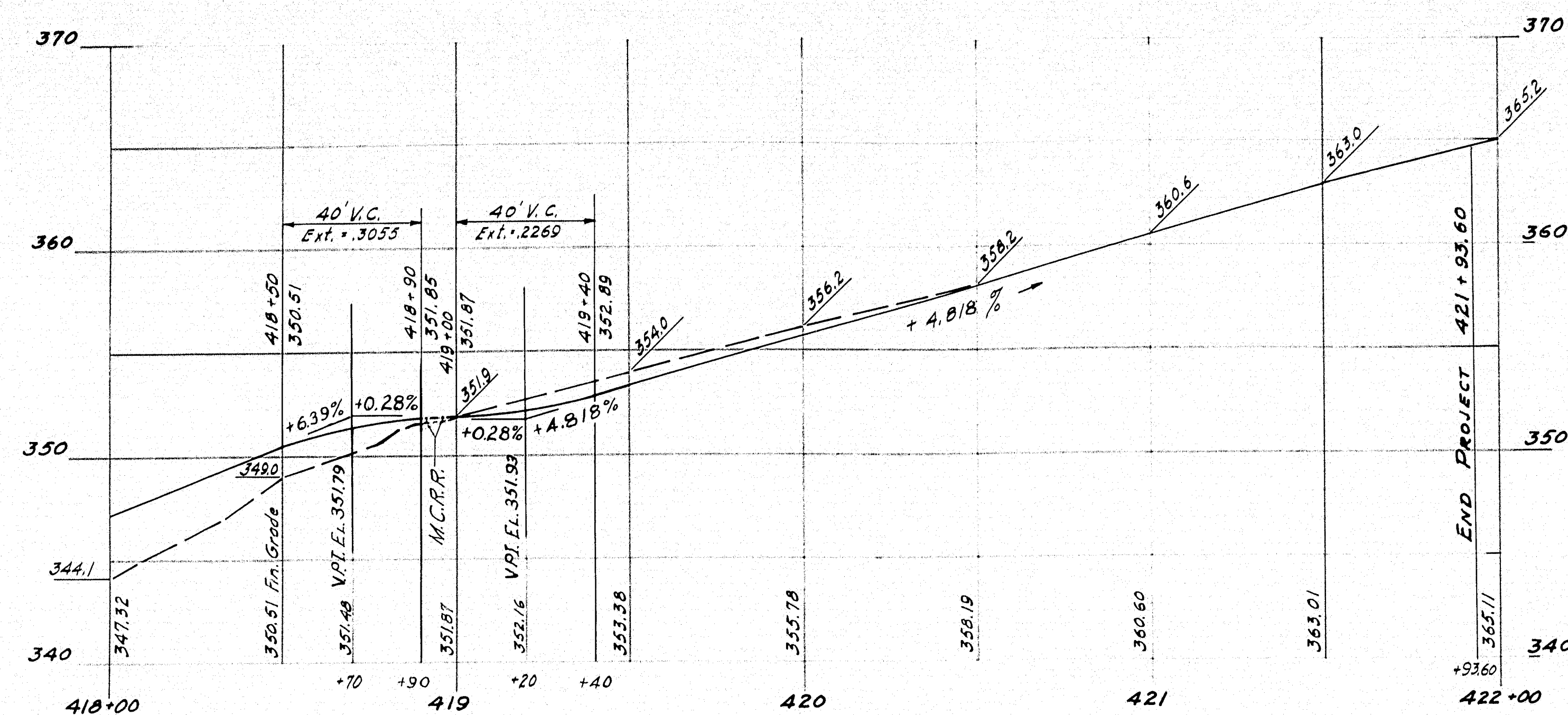
STATE HIGHWAY COMMISSION
 BRIDGE DIVISION

ANDROSCOGGIN RIVER BRIDGE
 BETWEEN THE TOWNS OF
LIVERMORE-LIVERMORE FALLS
ANDROSCOGGIN COUNTY
 CONSTRUCTION & PROFILES

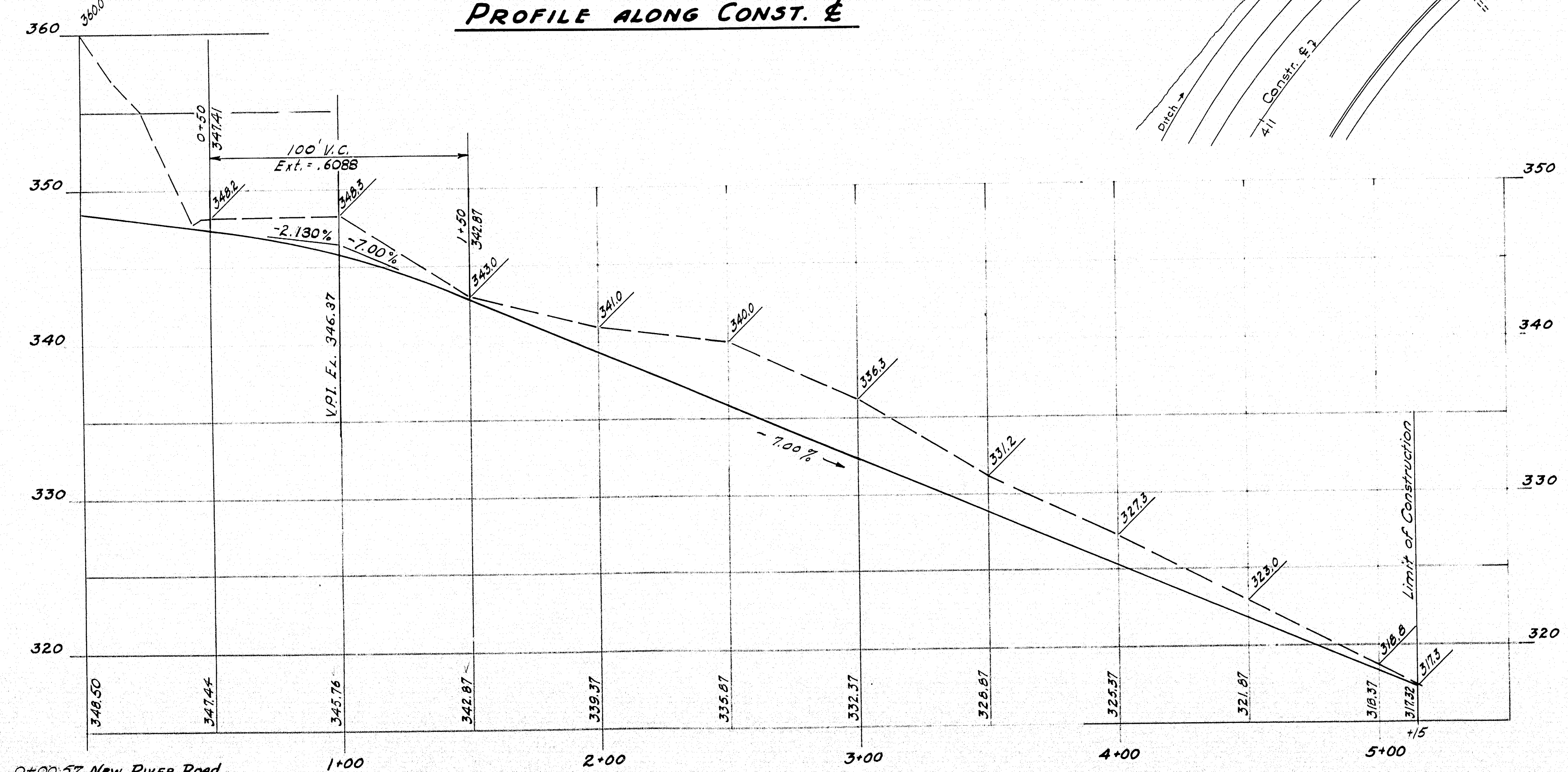
SHEET 10 OF 45 AUGUSTA, MAINE JAN. 1958
 Revised Profile Sta. 400+00 to 407+75. Harris, May 26, 1959



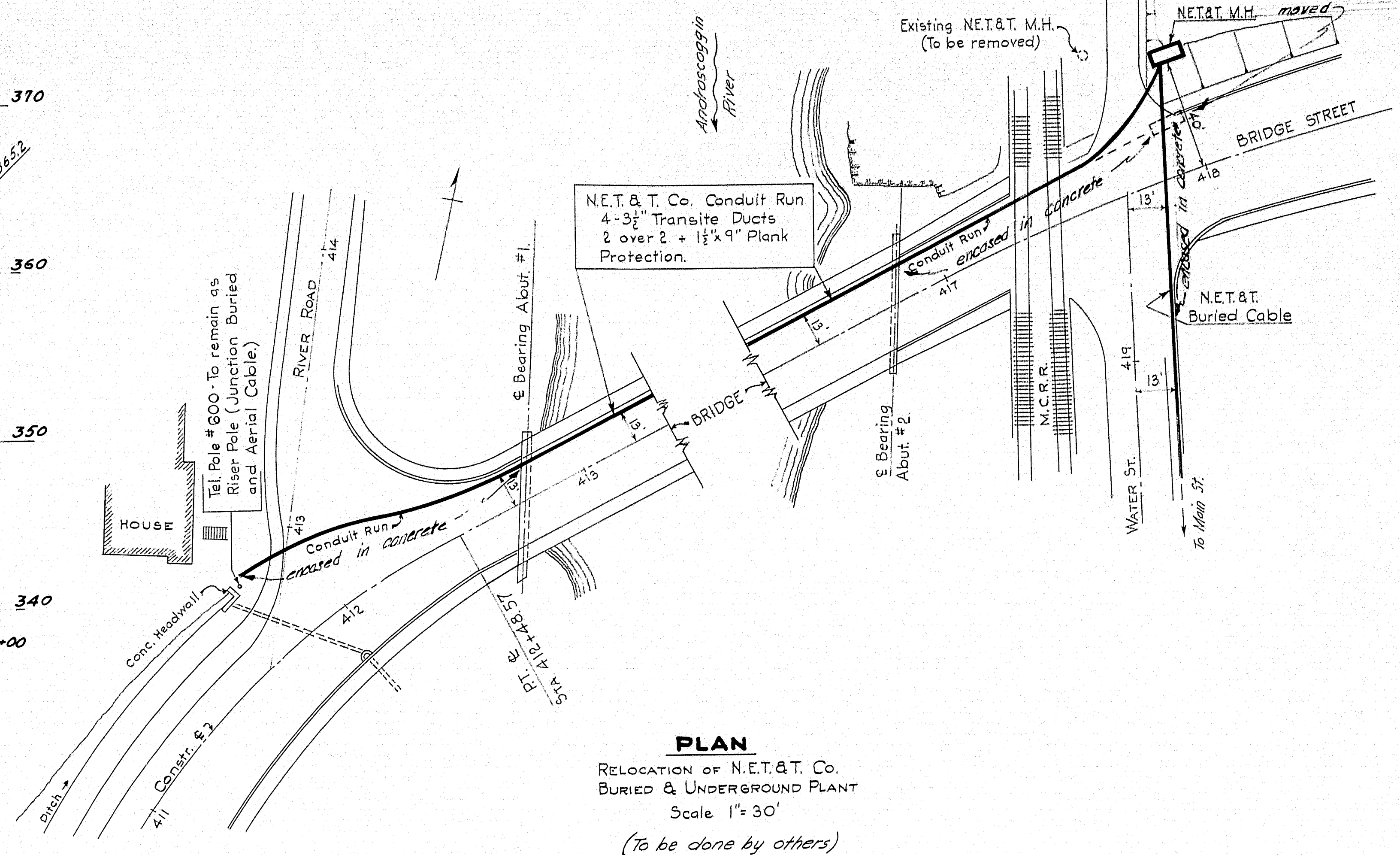
S. P. R.	STATE	PROJECT NUMBER	SHEET	TOTAL
REG. NO.	MAINE	F-021-1/2	11	45



PROFILE ALONG CONST. E



PROFILE ALONG NEW RIVER ROAD

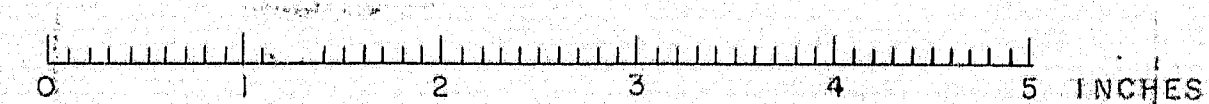


PLAN
RELOCATION OF N.E.T.&T. CO.
BURIED & UNDERGROUND PLANT
Scale 1" = 30'
(To be done by others)

Final Revision Nov. 1959 P.M.
Note: See Sh. # 7 for Construction & Profile
of Water Street (East Approach)

DESIGN - <i>W.H.H.</i>	DET. <i>McGones</i>	BRIDGE NO.
TRACE - <i>W.H.H.</i>		SURVEY -
CHECK - <i>W.H.H.</i>		PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
ANDROSCOGGIN RIVER BRIDGE		
BETWEEN THE TOWNS OF		
LIVERMORE-LIVERMORE FALLS		
ANDROSCOGGIN COUNTY		
CONSTRUCTION & PROFILES RELOCATION TELEPHONE CONDUIT		
SHEET 11 OF 45 AUGUSTA, MAINE JAN. 1958		

Revised Profile Sta. 0+00.57 to 1+00. Harris, May 26, 1959



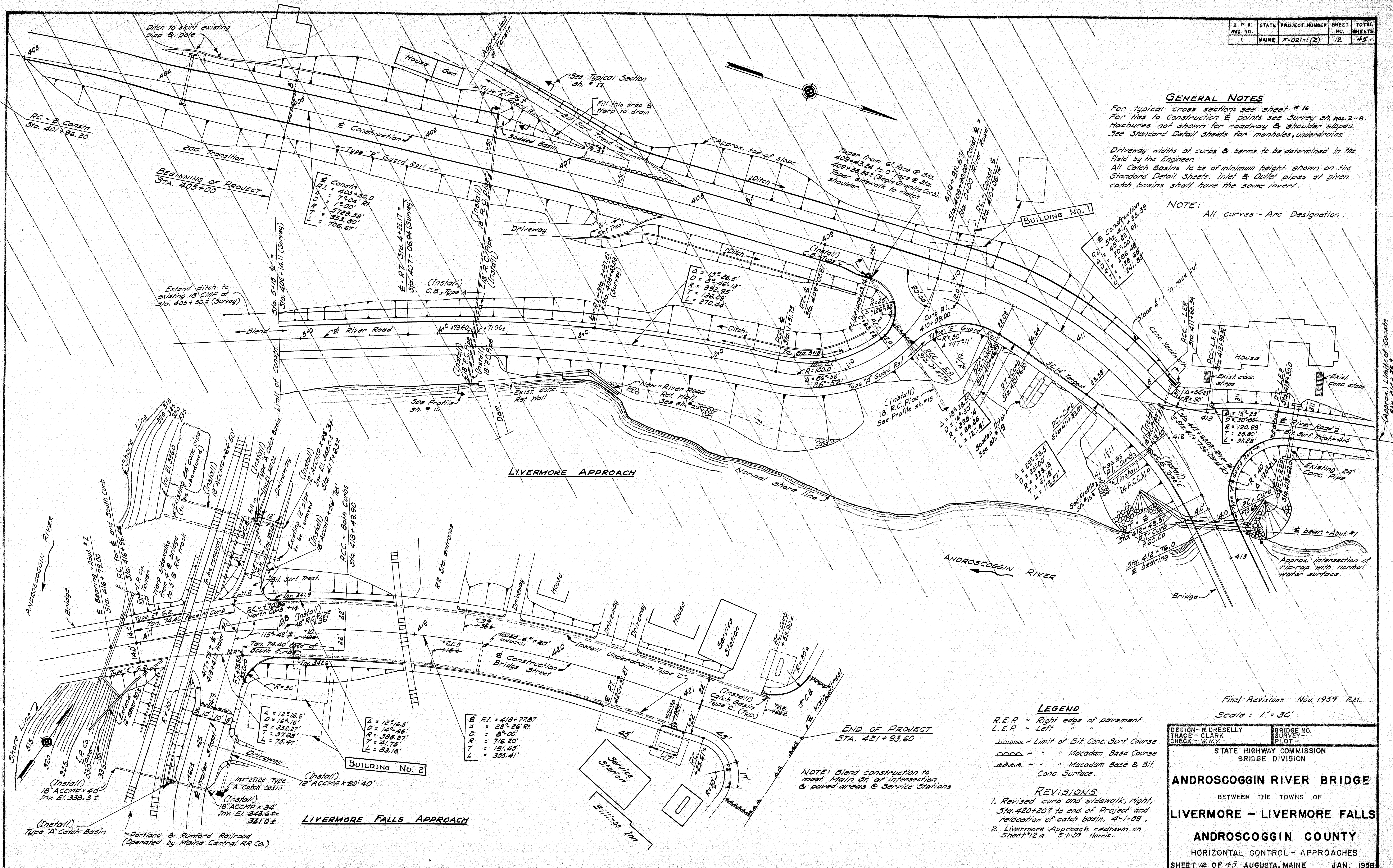
S. P. N.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	R-021-1 (2)	12	45

GENERAL NOTES

For typical cross sections see sheet # 16.
For ties to Construction & points see Survey sh. nos. 2-8.
Hachures not shown for roadway & shoulder slopes.
See Standard Detail Sheets for manholes, underdrains.

Driveway widths at curbs & berms to be determined in the field by the Engineer.
All Catch Basins to be of minimum height shown on the Standard Detail Sheets. Inlet & Outlet pipes at given catch basins shall have the same invert.

NOTE: All curves - Arc Designation.



LEGEND
R.E.P. ~ Right edge of pavement
L.E.P. ~ Left " "
..... ~ Limit of Bit. Conc. Surf. Course
..... ~ " " Macadam Base Course
..... ~ " " Macadam Base & Bit. Conc. Surface.

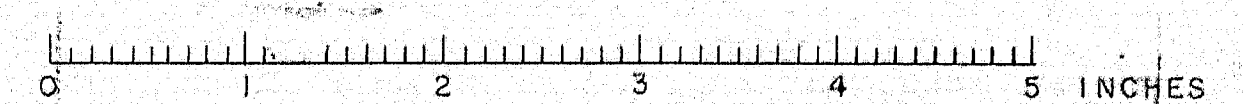
REVISIONS
1. Revised curb and sidewalk, right, Sta. 420+20 to end of Project and relocation of catch basin. 4-1-59.
2. Livermore Approach redrawn on Sheet #12 a. 5-1-59 Harris.

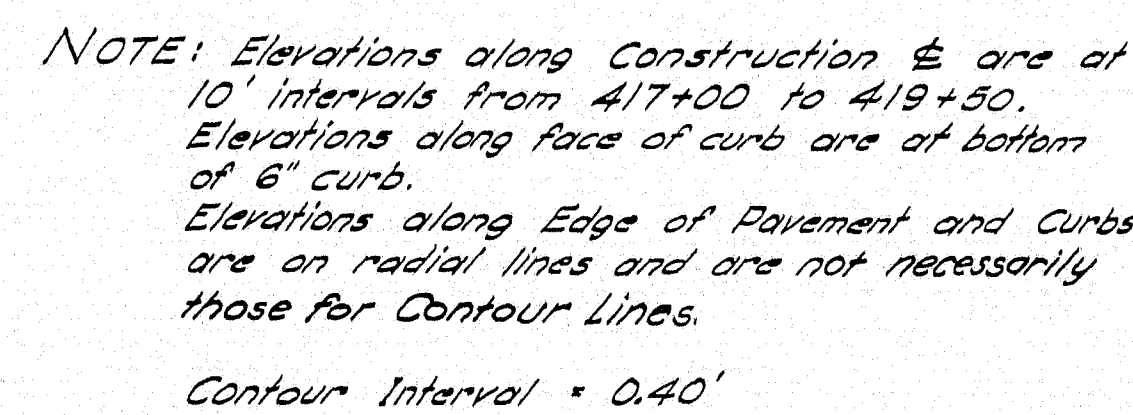
Final Revisions Nov. 1959 R.M.
Scale: 1" = 30'

DESIGN - R. DRESELY	BRIDGE NO.
TRACE - CLARK	SURVEY
CHECK - W. W. Y.	PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

ANDROSCOGGIN RIVER BRIDGE
BETWEEN THE TOWNS OF
LIVERMORE - LIVERMORE FALLS
ANDROSCOGGIN COUNTY
HORIZONTAL CONTROL - APPROACHES
SHEET 12 OF 45 AUGUSTA, MAINE JAN. 1958
Revised as noted above.





DESIGN - YOUNG TRACE - CLARK CHECK - <i>Dreadley</i>	BRIDGE NO. - SURVEY - PLOT -
--	------------------------------------

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

ANDROSCOGGIN RIVER BRIDGE

BETWEEN THE TOWNS OF

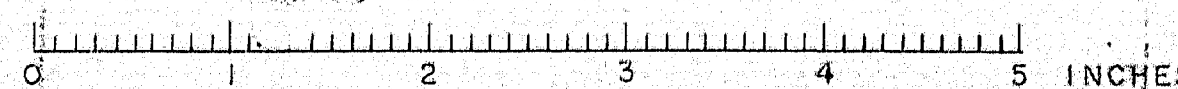
LIVERMORE - LIVERMORE FALLS

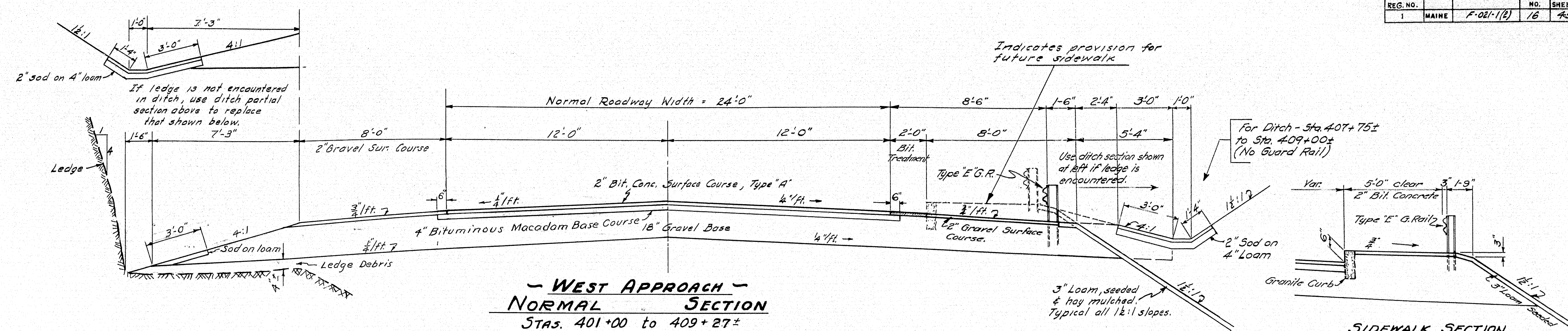
ANDROSCOGGIN COUNTY

VERTICAL CONTROL- EAST APPROACH

SHEET 14 OF 45 AUGUSTA, MAINE JAN. 1958
Revised driveway at Sta. 420+30 Rt. Clark Nov. 26, 1959

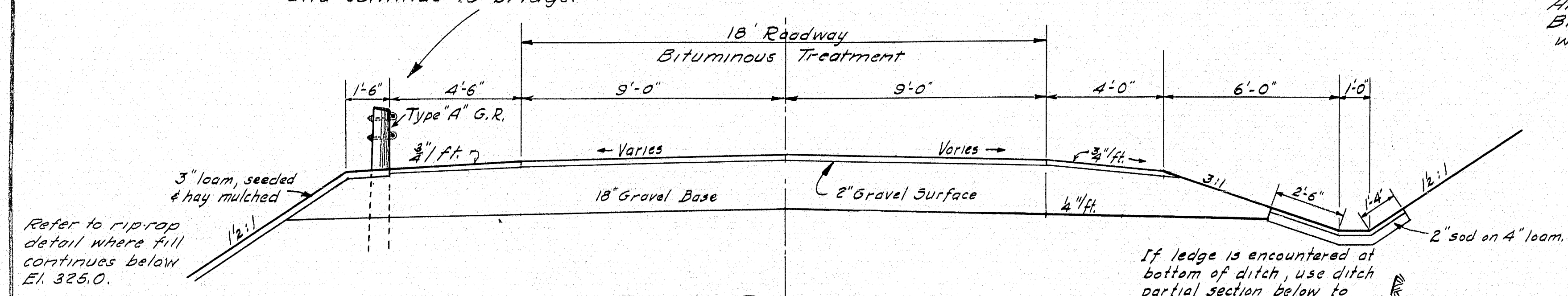
74-116



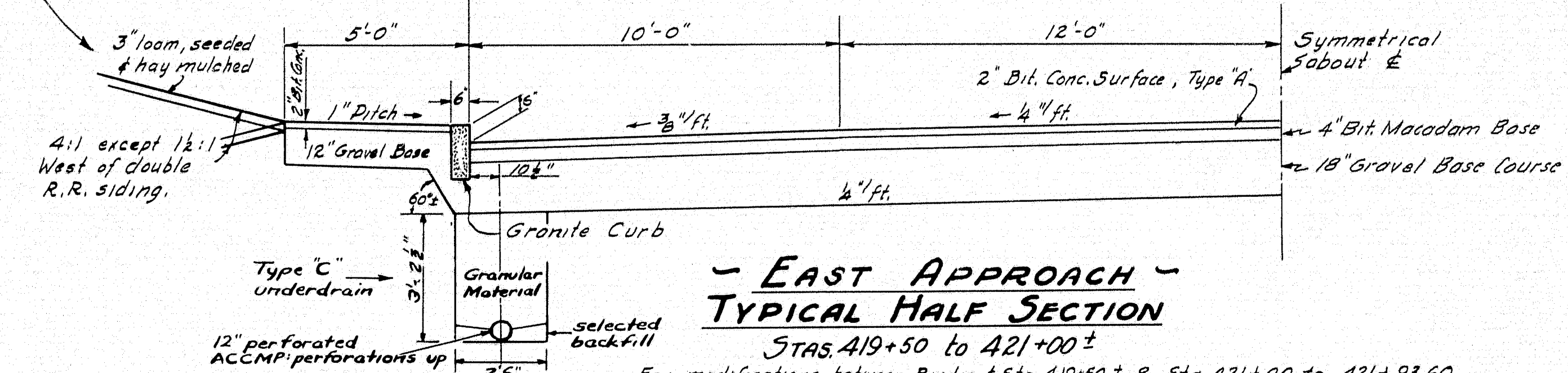


Start Type "A" Guard Rail at 0+50±, River Road. Start Type "E" Guard Rail at 0+50±, River Road and continue to bridge.

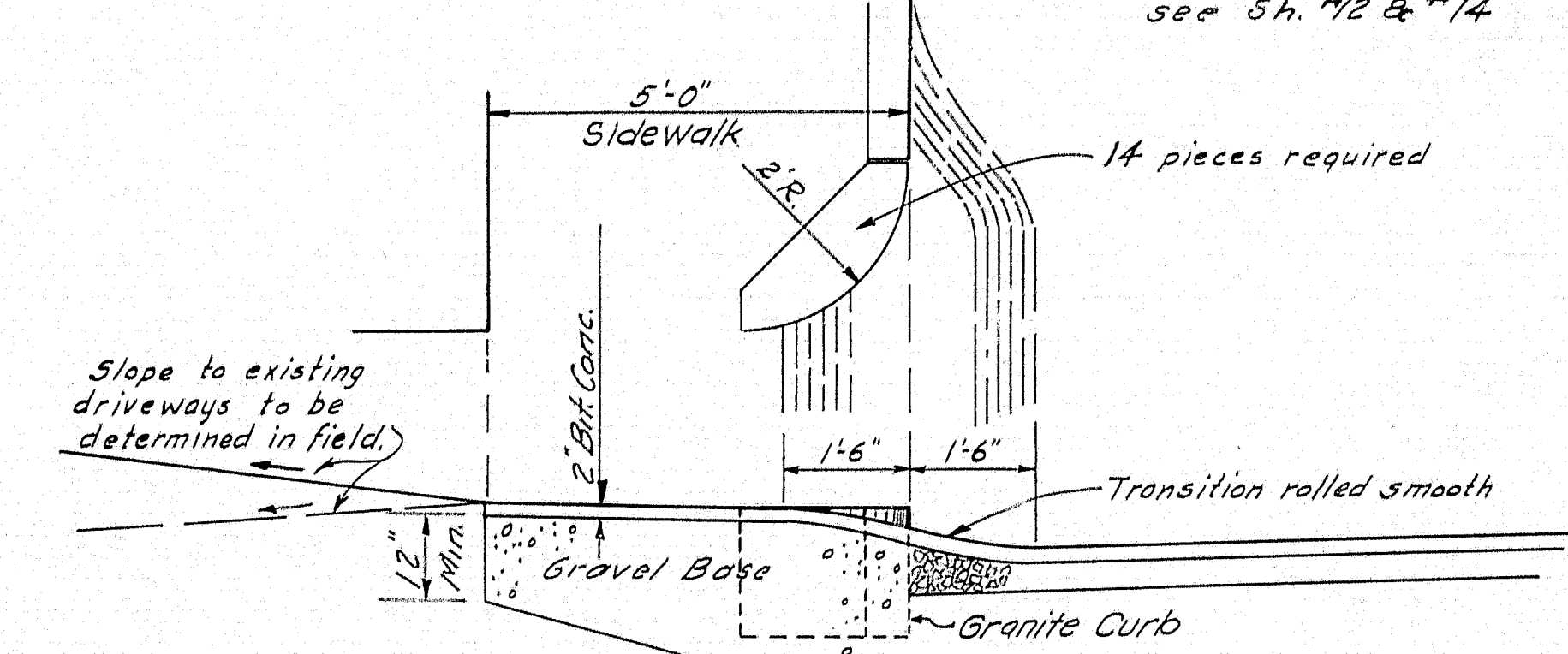
NOTE: Transition is made from Sta. 400+00 to above section at Sta. 401+00. For details from Sta. 409+27± to bridge, see modifications on Horizontal Control, Sh. #12A, and Vertical Control, Sh. #13.



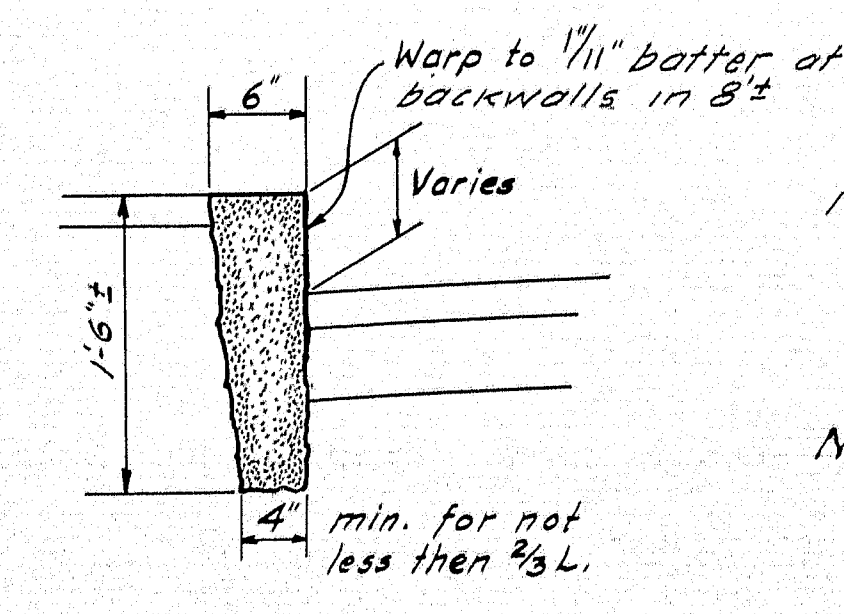
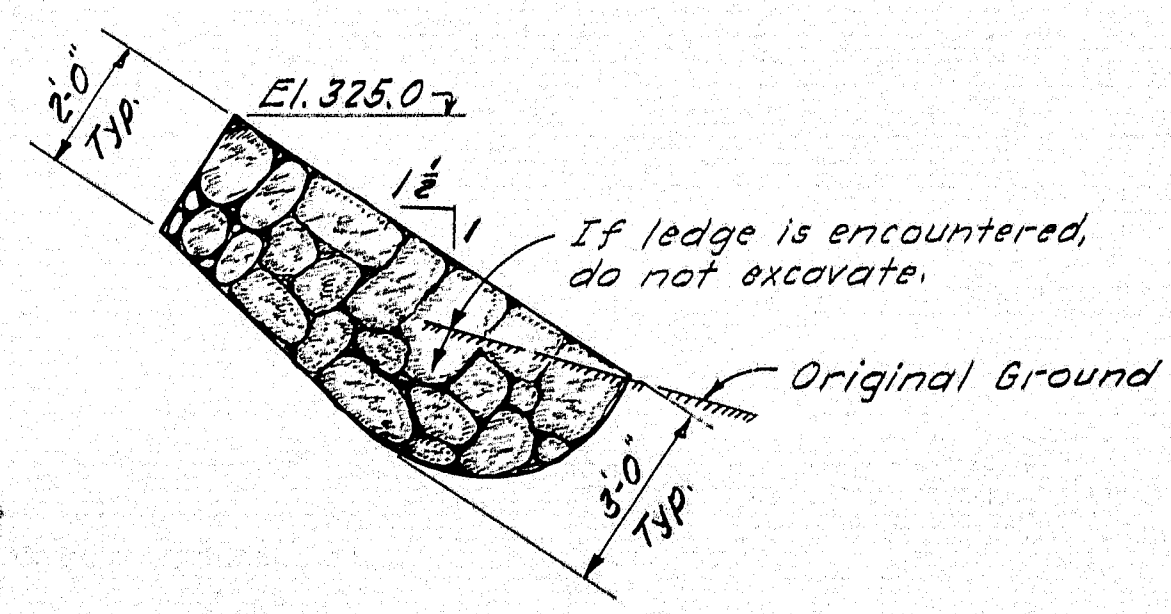
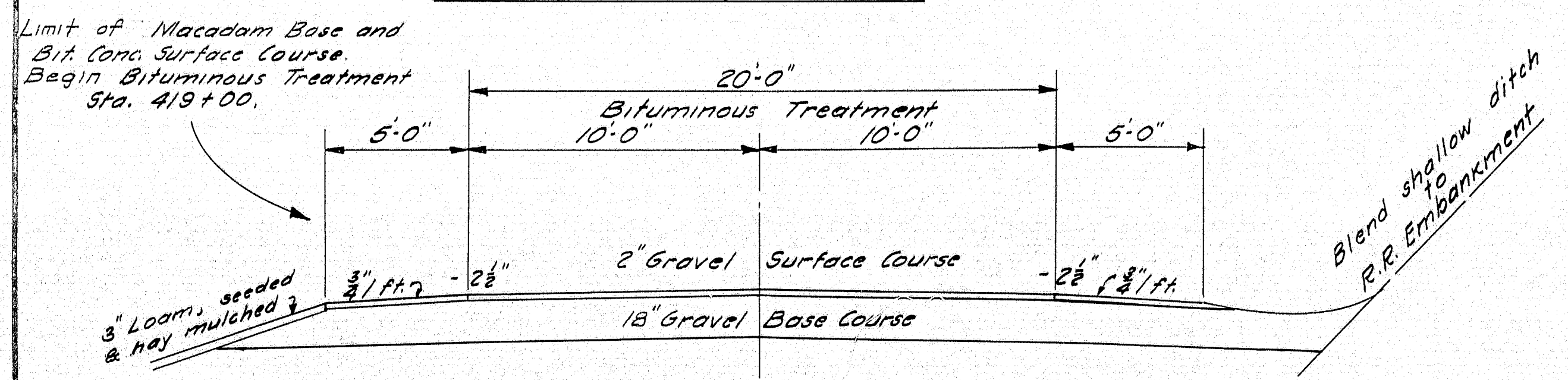
All slopes and backslopes up Bridge Street to be seeded with "Parkway Mixture".



SECTION at R.R. CROSSING
Scale: 3/8" = 1'

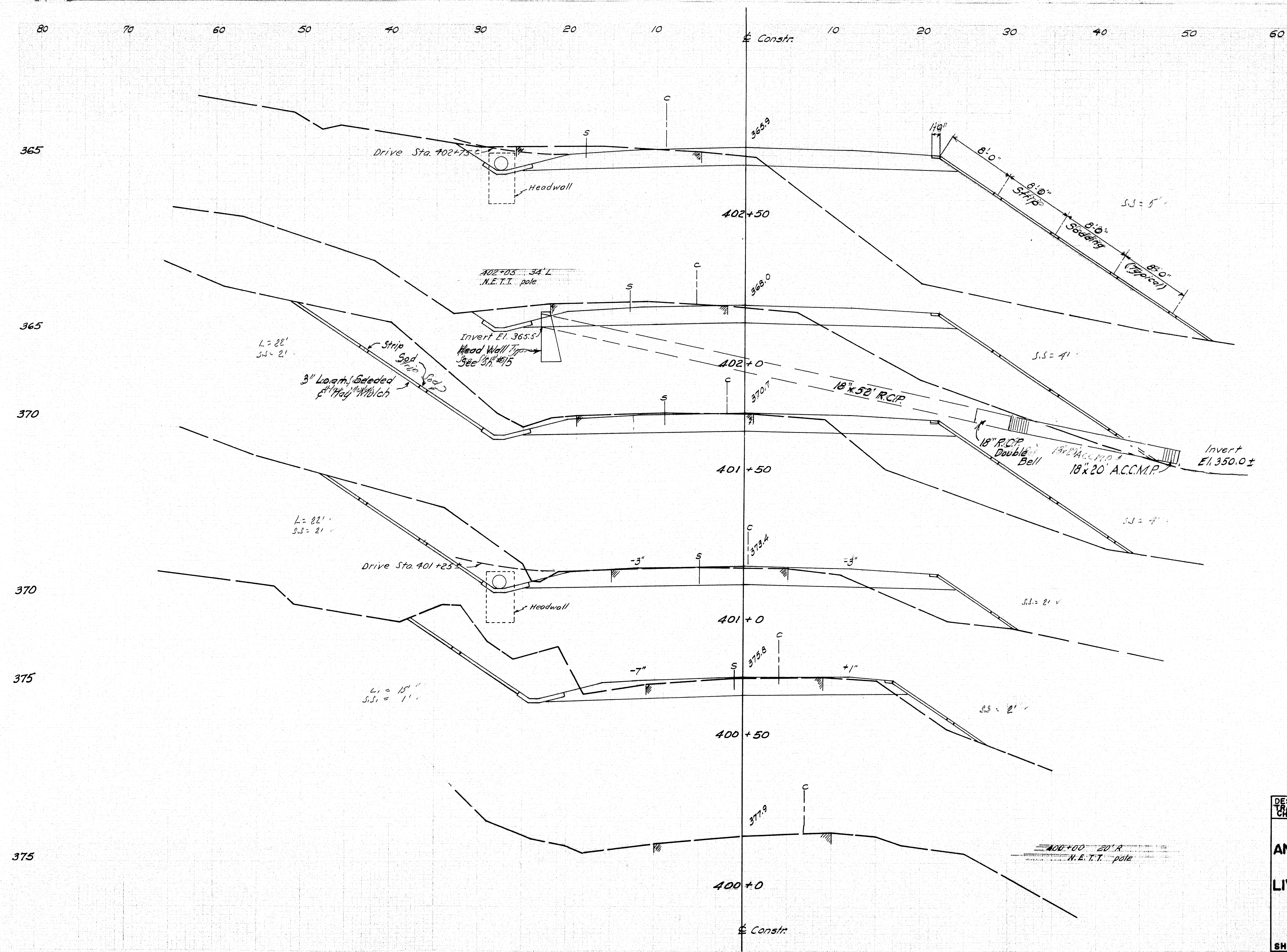


SECTION IMMEDIATELY EAST & WEST of BRIDGE



DESIGN - DRESELLEY	BRIDGE NO. SURVEY - PLOT
TRACE - OPEN	CHECK - W.H.H.
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ANDROSCOGGIN RIVER BRIDGE	
BETWEEN THE TOWNS OF	
LIVERMORE-LIVERMORE FALLS	
ANDROSCOGGIN COUNTY	
TYPICAL SECTIONS	
SHEET 16 OF 45 AUGUSTA, MAINE JAN. 1958	
Revised Section thru West Approach, Harris, May 26, 1959	

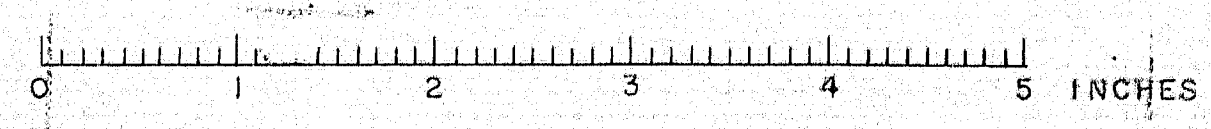
S. P. R. DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	F-DE1-1(2)	17c	45

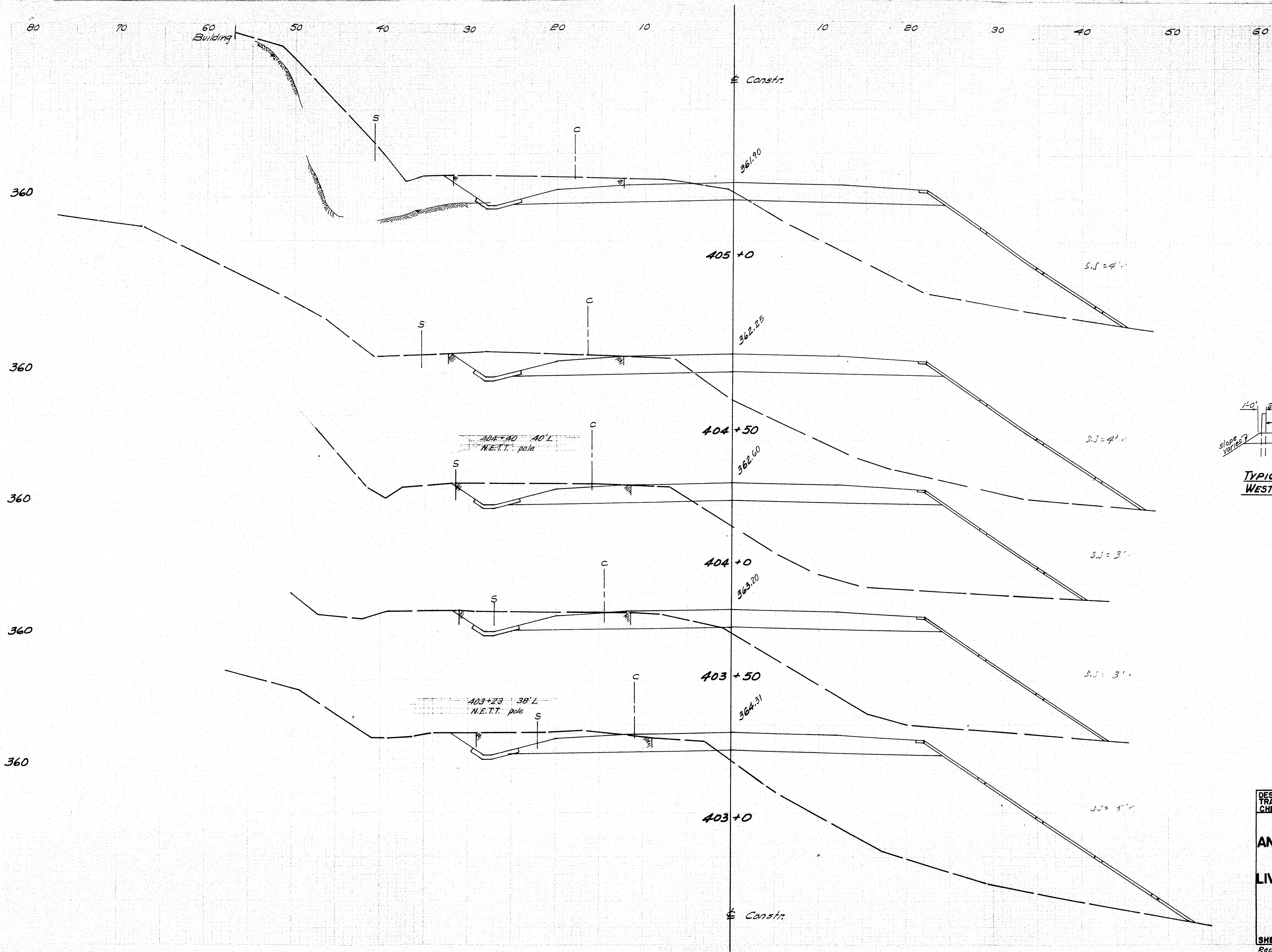


18" x 52' R.C.P.
18" x 4" R.C.P. Double Bell
18" x 20' A.C.C.M.P.

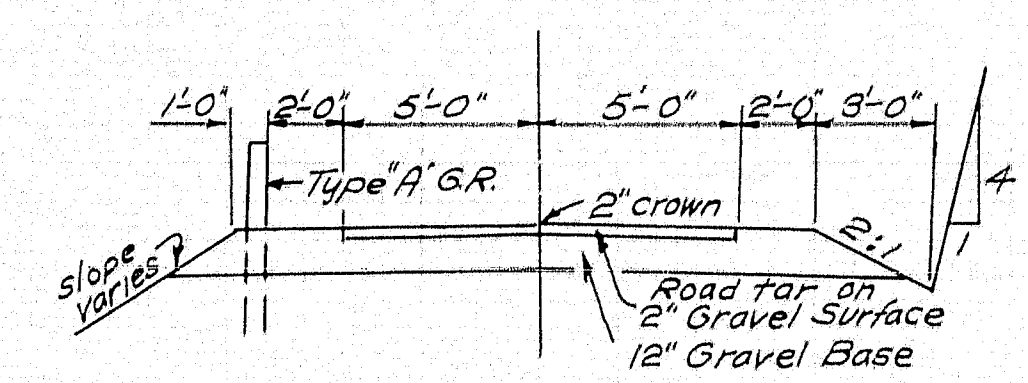
Final Field location utilities
Nov. 1959 R.H.

DESIGN TRACE CHECK	Harris Clark Deten	BRIDGE NO. SURVEY PLOT
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
ANDROSCOGGIN RIVER BRIDGE		
BETWEEN THE TOWNS OF LIVERMORE LIVERMORE FALLS		
ANDROSCOGGIN COUNTY		
CROSS SECTIONS		
SHEET 17c OF 45 AUGUSTA MAINE MAY 1959		
Additional sheet.		





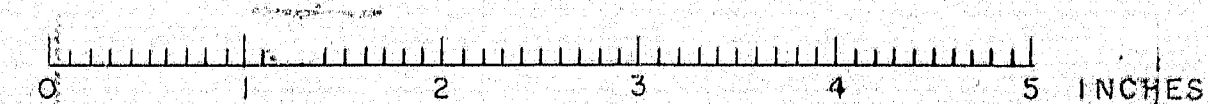
B. P. R. DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	F-021-1(2)	17d	45



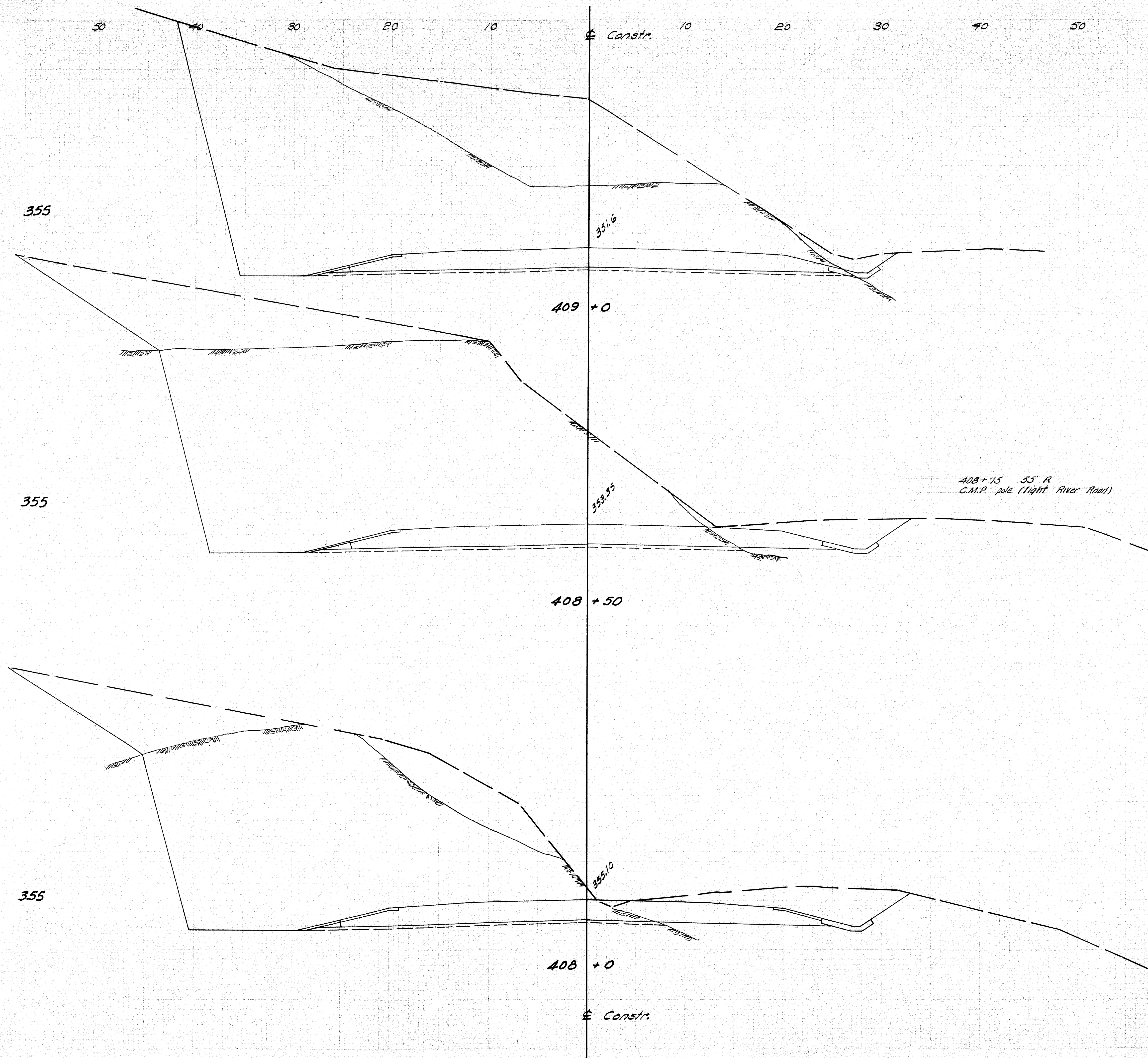
TYPICAL SECTION - DRIVEWAY
WEST OF STAS. 401 ± 402 ± 407 ±

"Final field location utilities
Nov. 1939 P.M.

DESIGN TRACE CHECK	Harris Clark Dafen	BRIDGE NO. SURVEY PLOT
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
ANDROSCOGGIN RIVER BRIDGE		
BETWEEN THE TOWNS OF LIVERMORE LIVERMORE FALLS		
ANDROSCOGGIN COUNTY		
CROSS SECTIONS		
SHEET 17d OF 45 AUGUSTA MAINE MAY 1959		
Replaces Shs. 17 & 17a.		



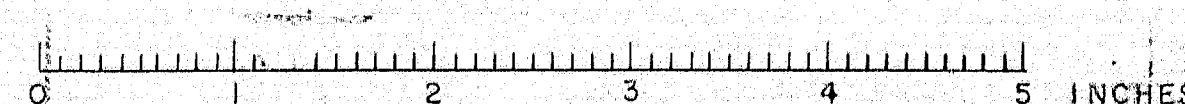
B. P. R. DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	F-021-1(2)	198	45



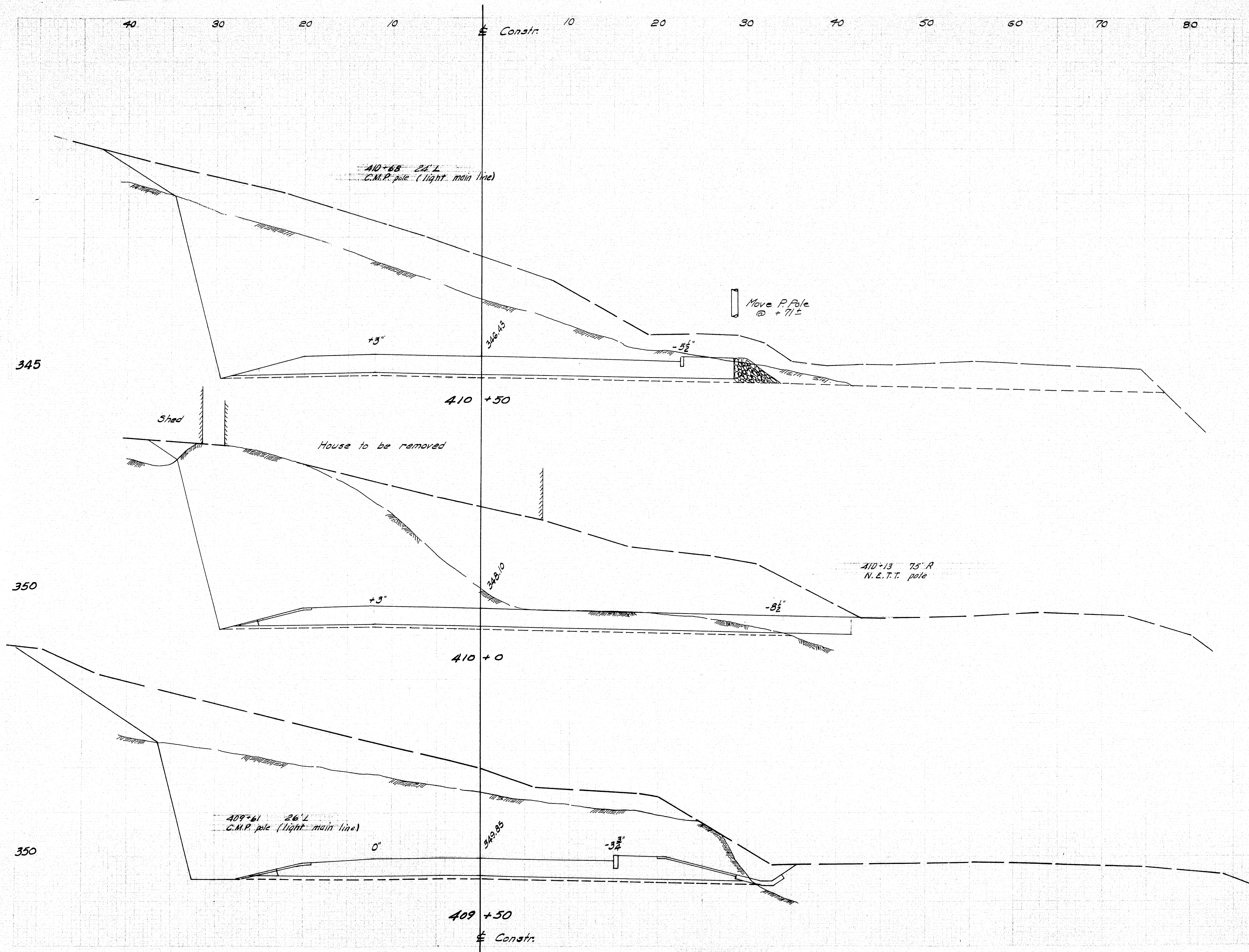
Final field location utilities
Nov. 1959 P.M.

DESIGN Clark	BRIDGE NO.
TRACE Clark	SURVEY
CHECK Dohen	PLOT
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ANDROSCOGGIN RIVER BRIDGE	
BETWEEN THE TOWNS OF	
LIVERMORE-LIVERMORE FALLS	
ANDROSCOGGIN COUNTY	
CROSS SECTIONS	
SHEET 196 OF 45	AUGUSTA MAINE MAY 1959
Replaces Shts. 18, 18a, & 19a.	

74-122



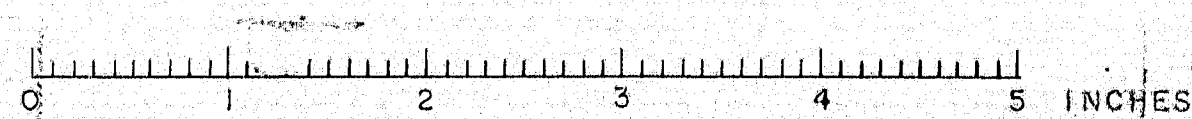
B. P. R.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	F-021-1(2)	19c	45



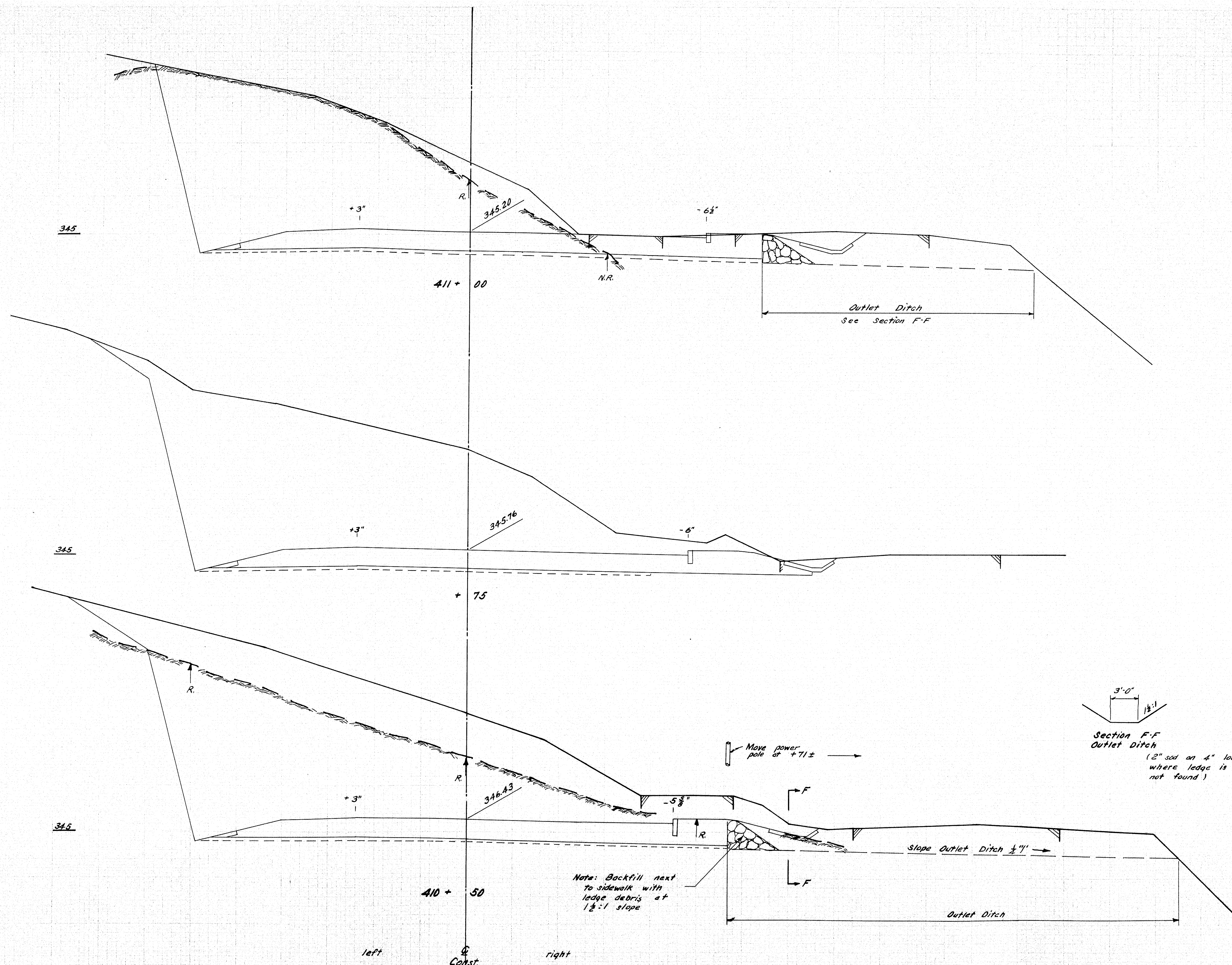
Final field location utilities
Nov. 1959 P.M.

DESIGN TRACE CHECK	Clark Clark Doten	BRIDGE NO. SURVEY PLOT
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
ANDROSCOGGIN RIVER BRIDGE		
BETWEEN THE TOWNS OF		
LIVERMORE LIVERMORE FALLS		
ANDROSCOGGIN COUNTY		
CROSS SECTIONS		
SHEET 19c OF 45 AUGUSTA MAINE MAY 1959		
Replaces Shs. 19 & 19a.		

74-123



B. P. R. DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	F-221-1121	19d	45

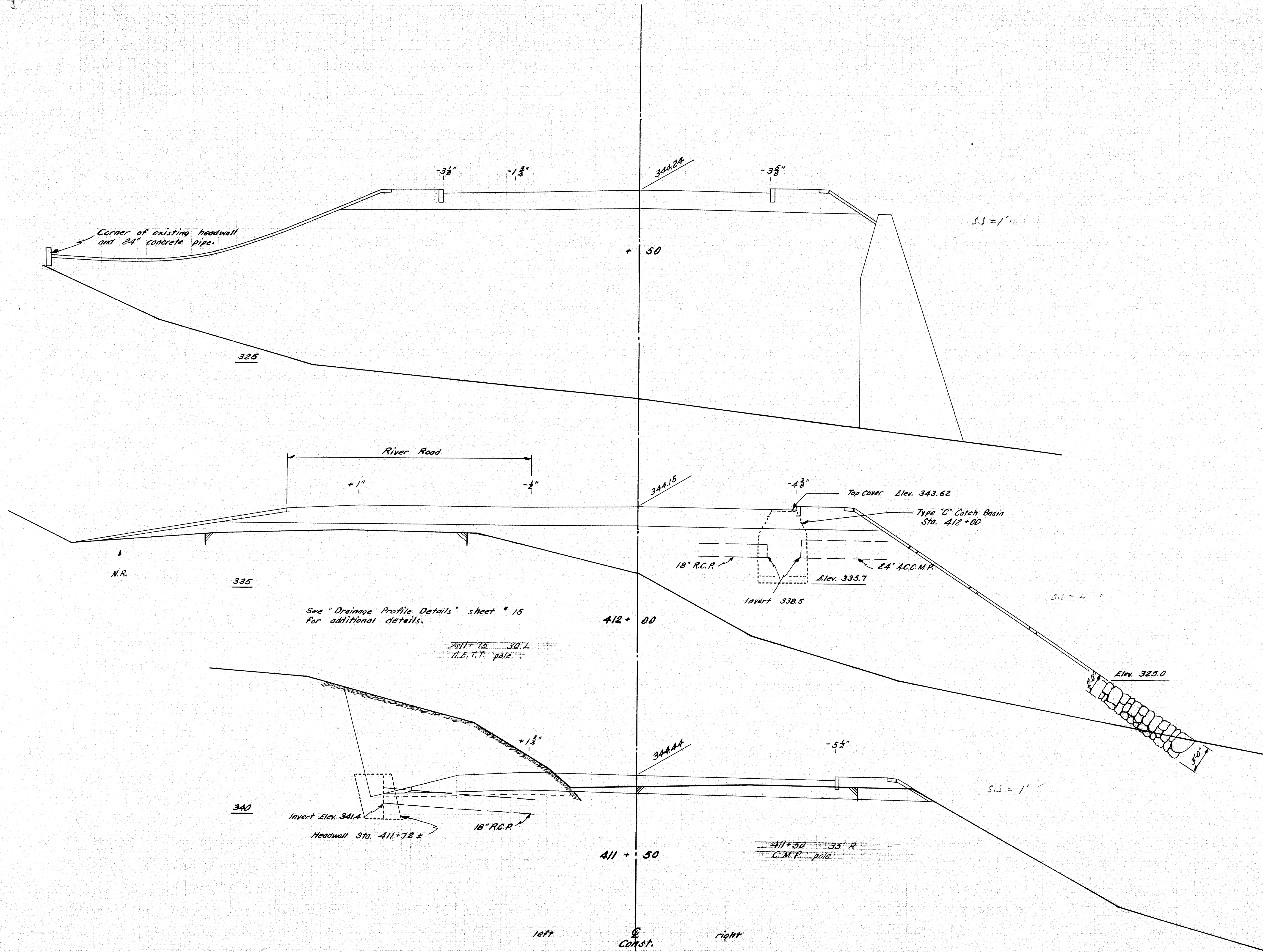


Slope outlet ditches eliminated.
Drainage by sod gutters.

DESIGN TRACE CHECK	Millstone	BRIDGE NO. SURVEY PLOT
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
ANDROSCOGGIN RIVER BRIDGE		
BETWEEN THE TOWNS OF		
LIVERMORE-LIVERMORE FALLS		
ANDROSCOGGIN COUNTY		
REVISED CROSS SECTIONS		
SHEET 19d OF 45 AUGUSTA, MAINE JAN 1959		
replaces sheets 19 & 20		

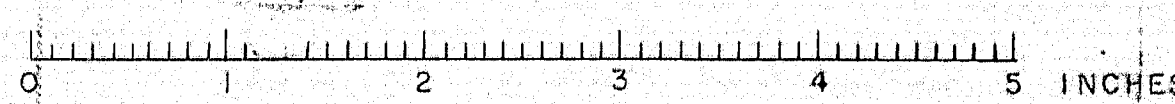
74-124

0 1 2 3 4 5 INCHES

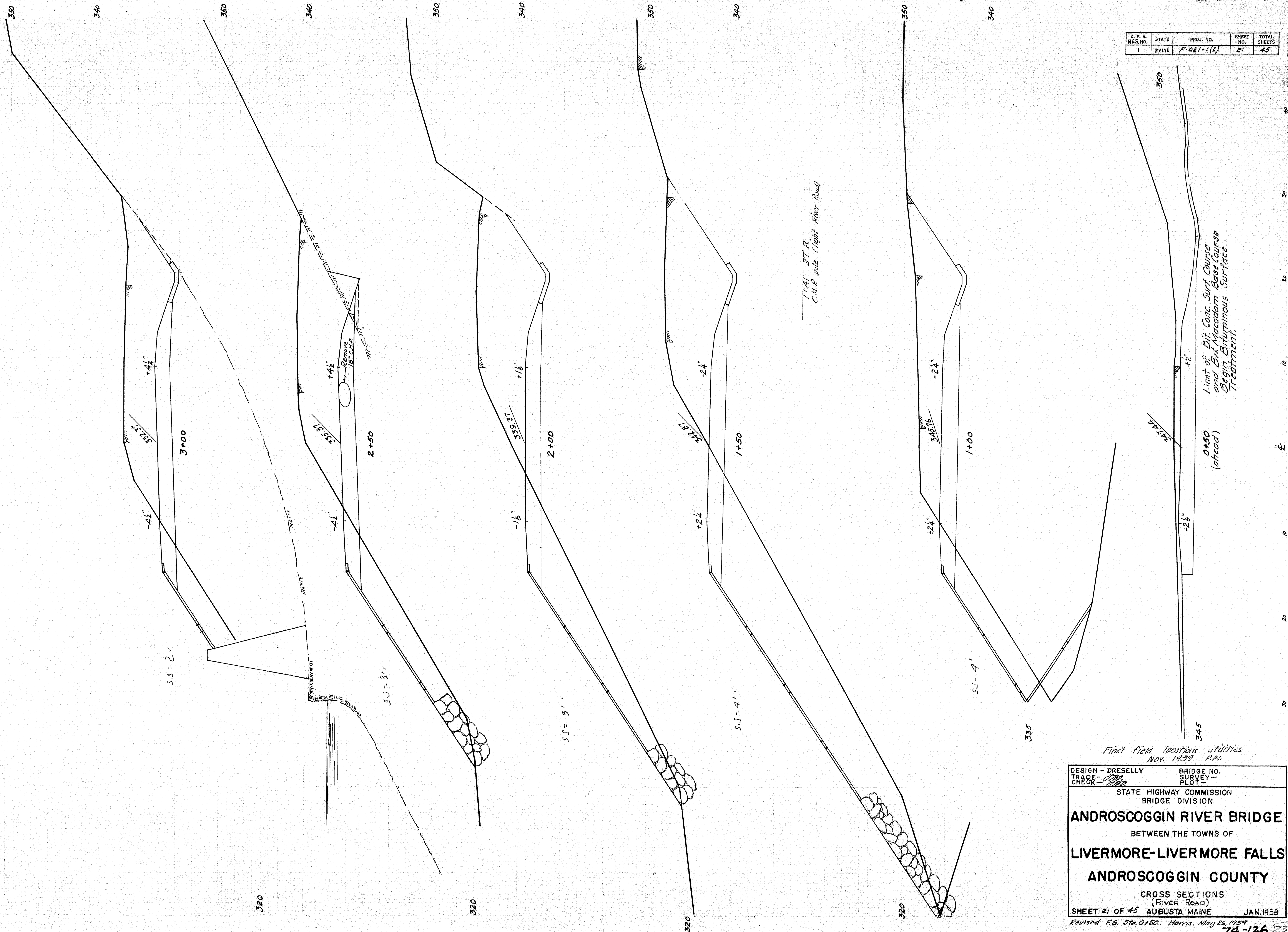


Final field locations Utilities
Nov. 1959 P.M.

DESIGN TRACE CHECK	Mallison (Initials)	BRIDGE NO. ...
STATE HIGHWAY COMMISSION BRIDGE DIVISION		SURVEY PLOT
ANDROSCOGGIN RIVER BRIDGE		
BETWEEN THE TOWNS OF		
LIVERMORE-LIVERMORE FALLS		
ANDROSCOGGIN COUNTY		
REVISED CROSS SECTIONS		
SHEET 20 OF 45 AUGUSTA MAINE JAN. 1959		
replaces sheet 20		



D. P. R. REG. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	F-021-1(2)	21	45



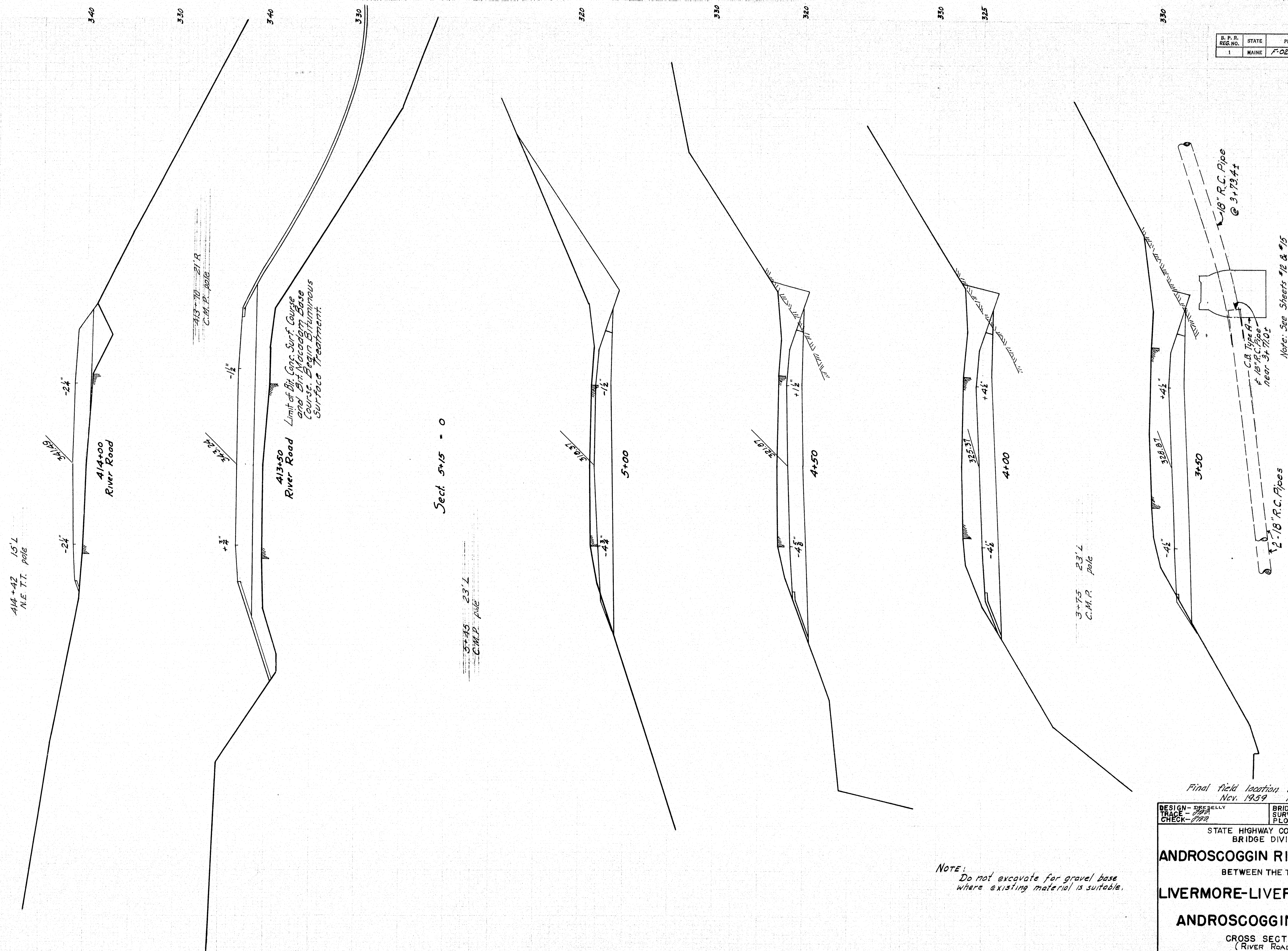
Final field locations utilities
Nov. 1959 P.M.

DESIGN - DRESELLY	BRIDGE NO.
TRACE - <i>[Signature]</i>	SURVEY -
CHECK -	PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ANDROSCOGGIN RIVER BRIDGE	
BETWEEN THE TOWNS OF	
LIVERMORE-LIVERMORE FALLS	
ANDROSCOGGIN COUNTY	
CROSS SECTIONS (River Road)	
SHEET 21 OF 45	AUGUSTA MAINE JAN. 1958

Revised F.G. Sta. 0+50. Harris. May 26, 1959

74-126 23

D. P. R. REG. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	F-021-1(2)	22	45



Sect. 5+15 = 0

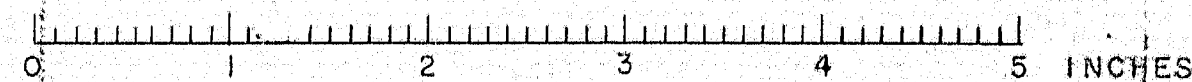
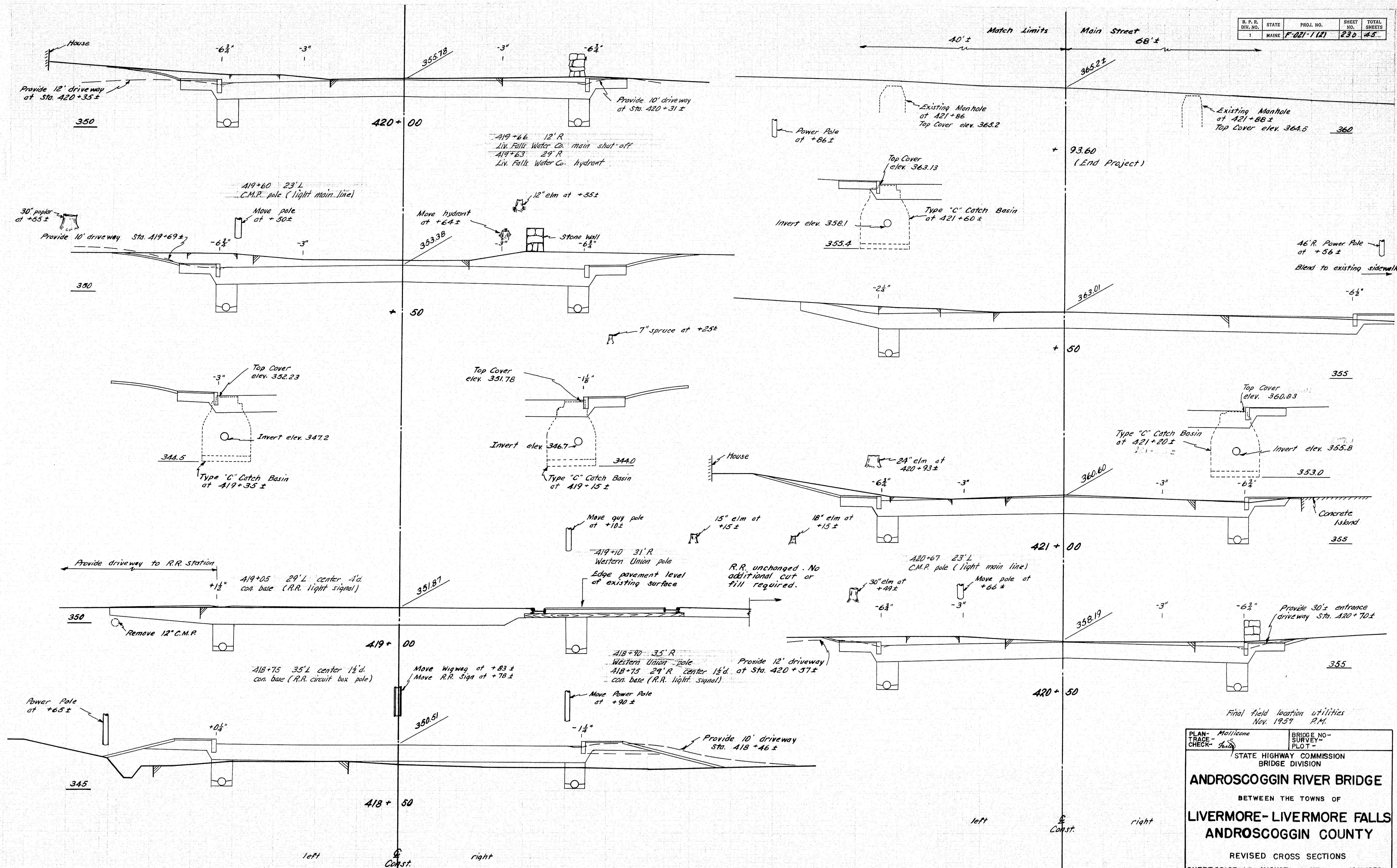
NOTE:
Do not excavate for gravel base where existing material is suitable.

Final field location utilities
Nov. 1959 P.M.

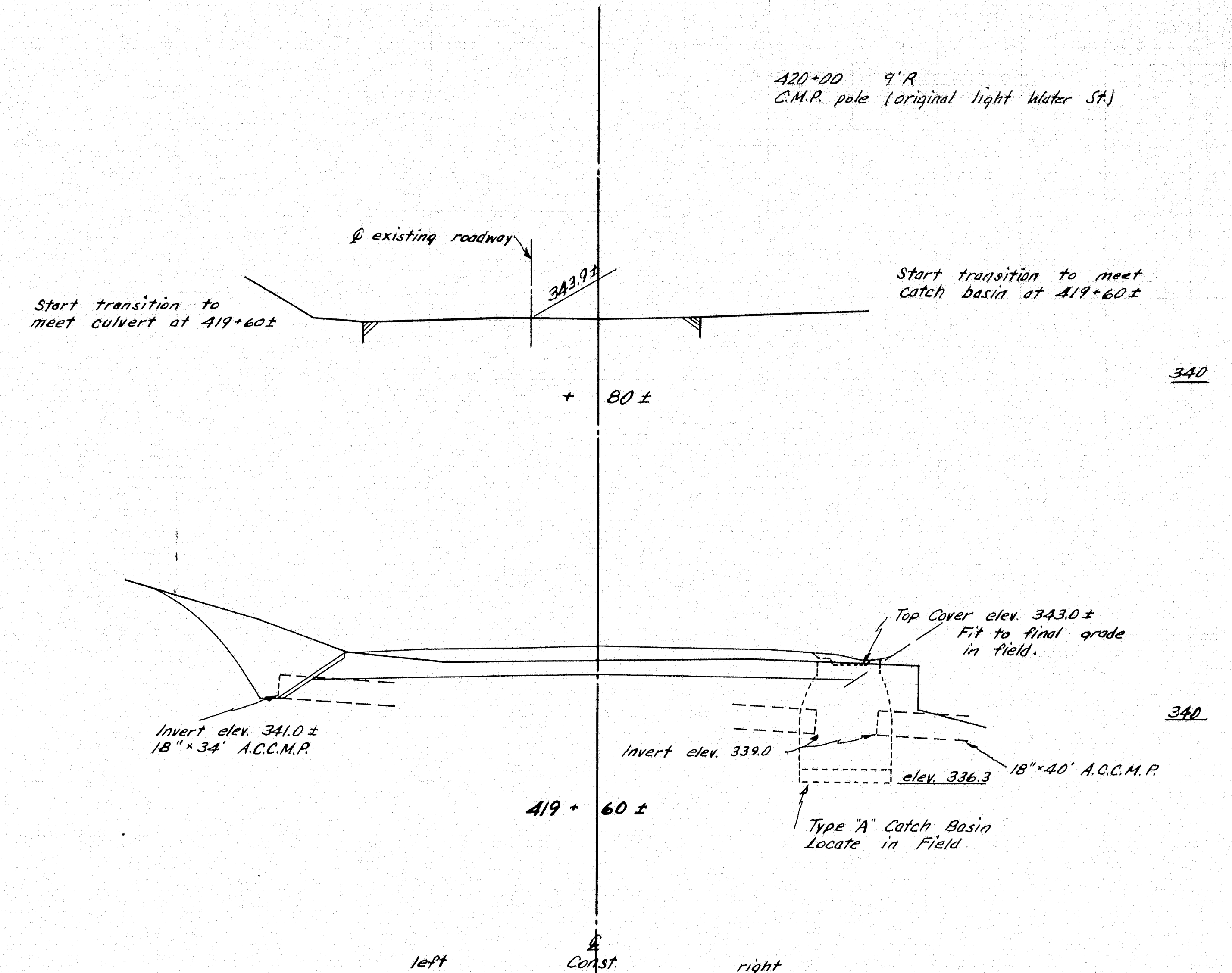
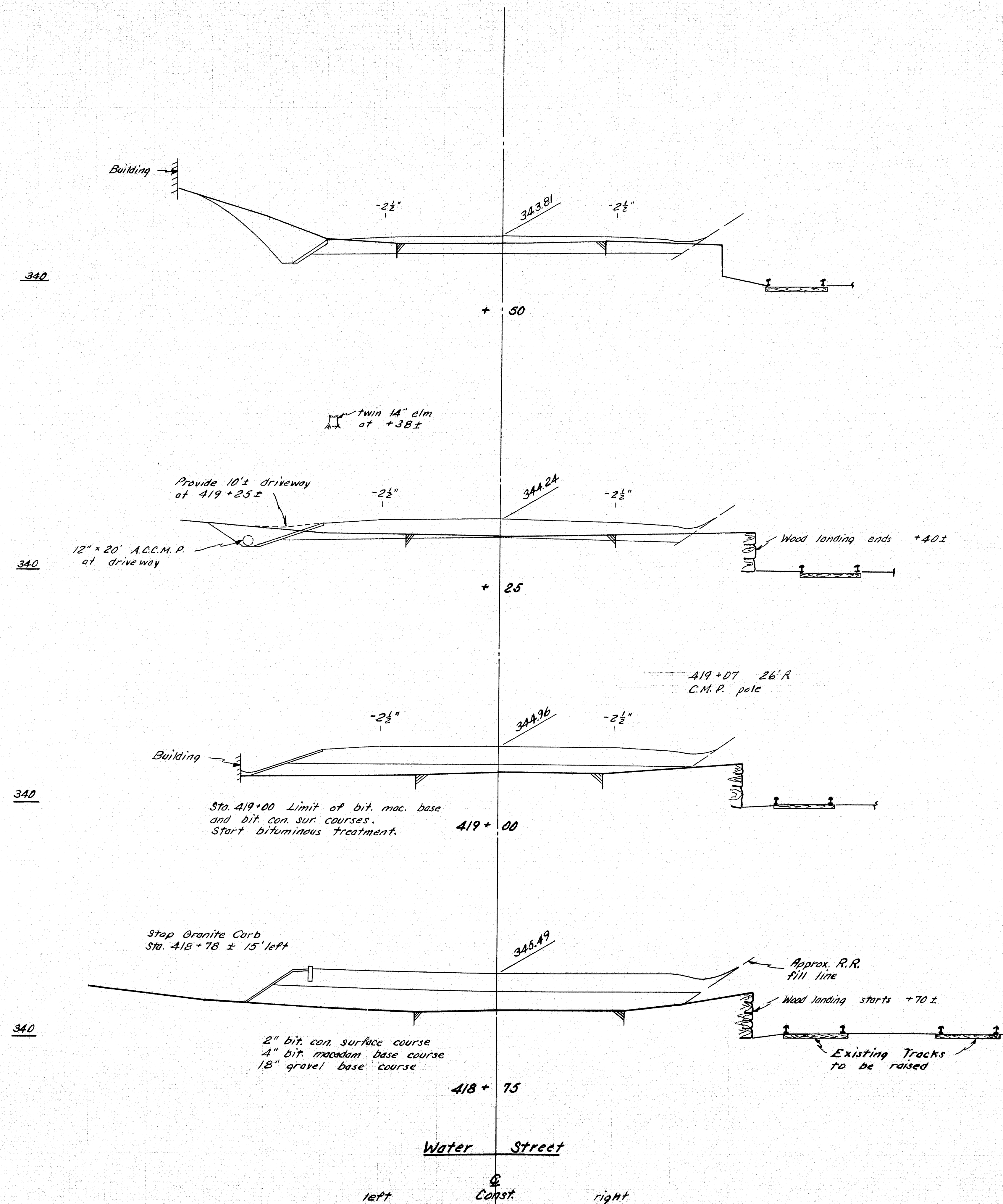
DESIGN - DREYER TRACE - DREYER CHECK - DREYER	BRIDGE - SURVEY - PLOT -
---	--------------------------------

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

ANDROSCOGGIN RIVER BRIDGE
BETWEEN THE TOWNS OF
LIVERMORE-LIVERMORE FALLS
ANDROSCOGGIN COUNTY
CROSS SECTIONS
(RIVER ROAD)
SHEET 22 OF 45 AUGUSTA MAINE JAN. 1958



B. P. R. DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	F-021-1121	240	45



Final field location utilities
Nov. 1959 P.M.

PLAN - Morrison	BRIDGE NO -
TRACE -	SURVEY -
CHECK -	PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ANDROSCOGGIN RIVER BRIDGE	
BETWEEN THE TOWNS OF	
LIVERMORE-LIVERMORE FALLS	
ANDROSCOGGIN COUNTY	
REVISED CROSS SECTIONS, WATER STREET	
SHEET 240 OF 45	AUGUSTA MAINE
replaces sheet 24	JAN 1959

74-130 26

0 1 2 3 4 5 INCHES



LAYOUT



DESIGN - JOSE	BRIDGE NO.
TRACE - CLARK	SURVEY -
CHECK - DRESELY	PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

ANDROSCOGGIN RIVER BRIDGE

BETWEEN THE TOWNS OF

LIVERMORE - LIVERMORE FALLS

ANDROSCOGGIN COUNTY

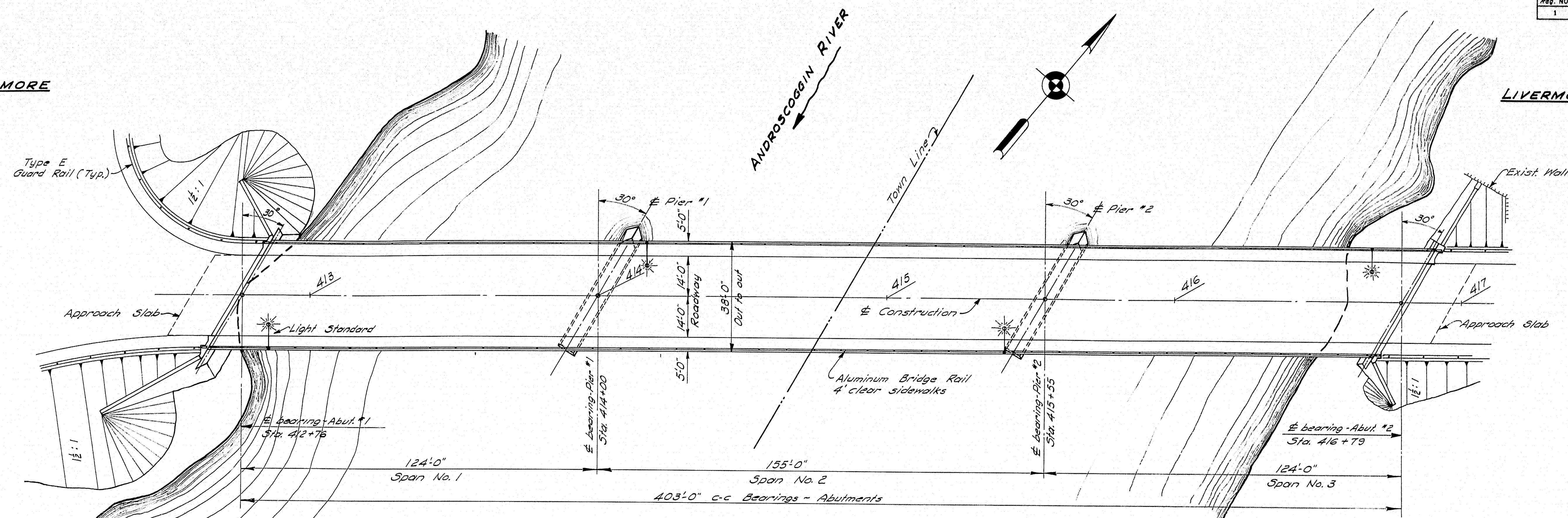
RIVER ROAD RETAINING WALL

SHEET 25 OF 45 AUGUSTA, MAINE JAN. 1958

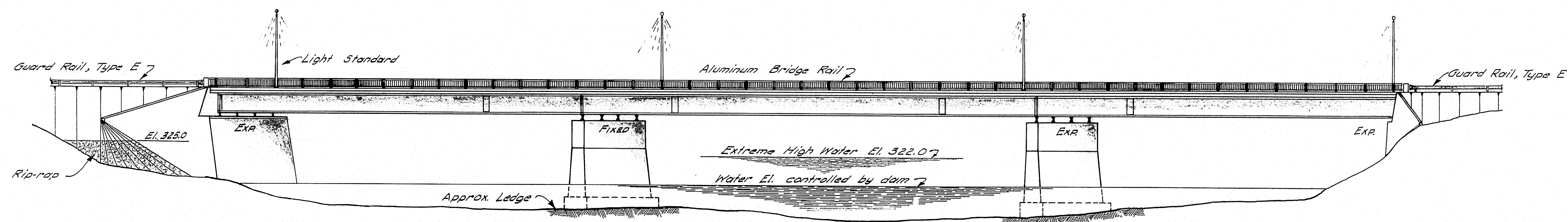
D. P. R. Proj. No.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-021-1(2)	26	45

LIVERMORE

LIVERMORE FALLS



GENERAL PLAN
Scale - 1" = 20'



ELEVATION
Scale - 1" = 20'

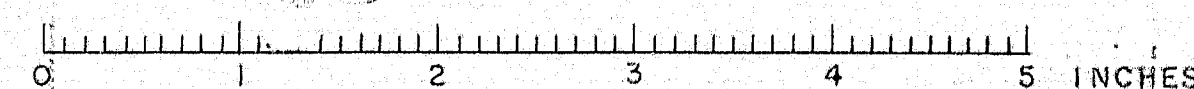
PLAN - CLARK
CHECK - 7788

BRIDGE NO.
SURVEY -
PLOT -

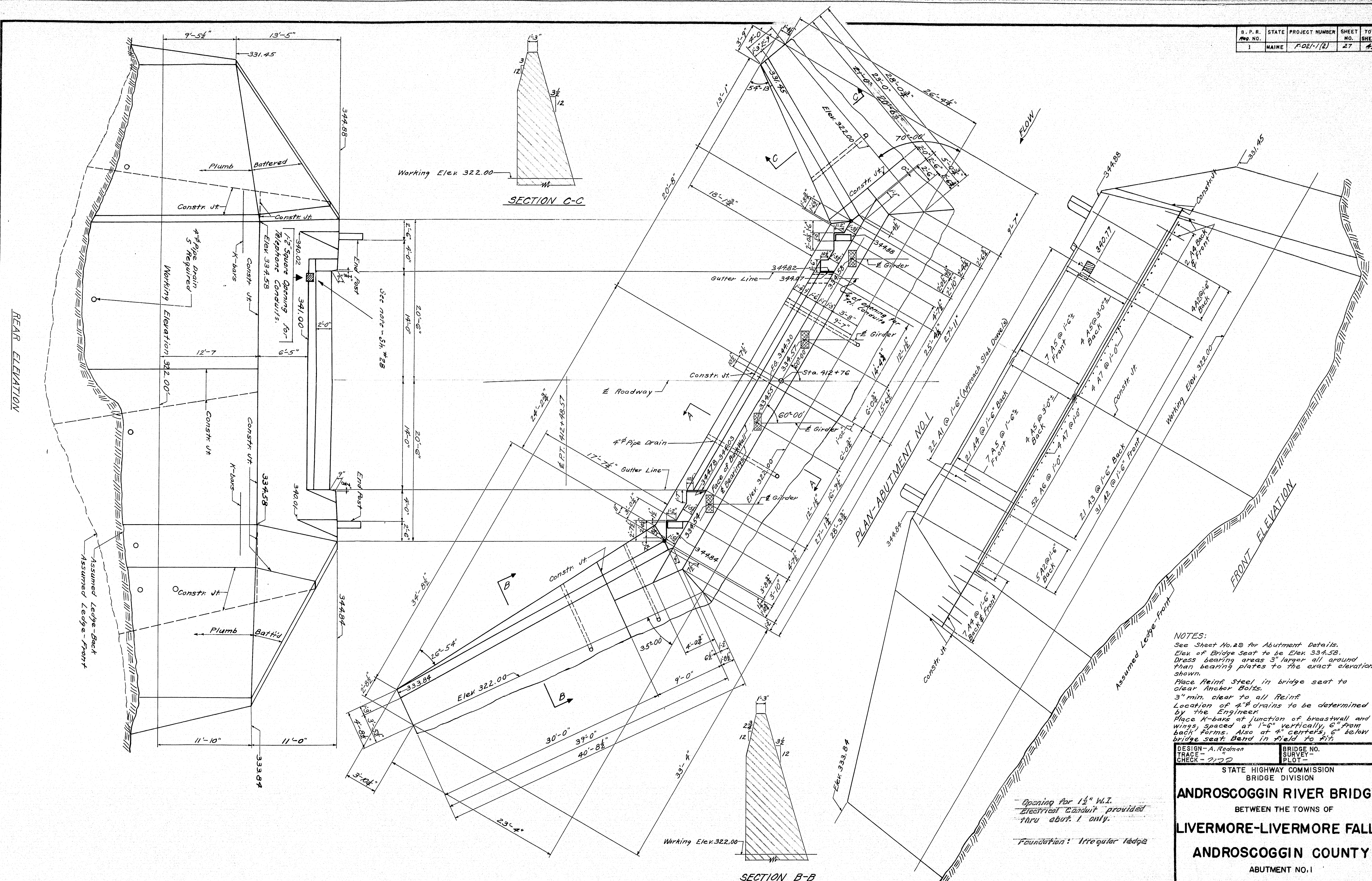
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

ANDROSCOGGIN RIVER BRIDGE
BETWEEN THE TOWNS OF
LIVERMORE - LIVERMORE FALLS
ANDROSCOGGIN COUNTY
GENERAL PLAN & ELEVATION
SHEET 26 OF 45 AUGUSTA, MAINE DEC. 1957

74-132



S. P. R.	STATE	PROJECT NUMBER	SHEET	TOTAL
1	MAINE	F-021-1(2)	27	45

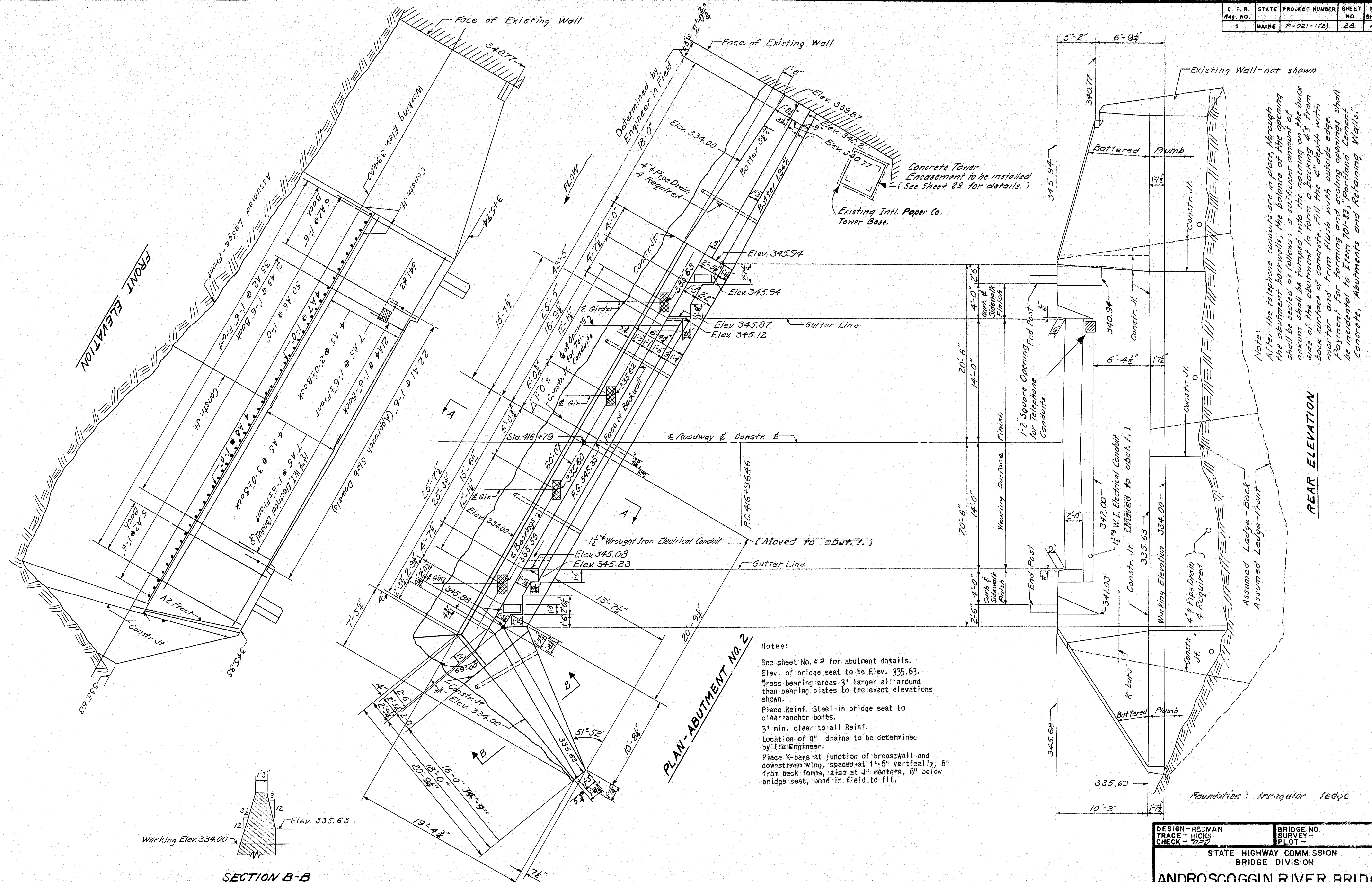


NOTES:
 See Sheet No. 28 for Abutment Details.
 Elev. of Bridge Seat to be Elev. 334.58.
 Dress bearing areas 3" larger all around than bearing plates to the exact elevations shown.
 Place Reinf. Steel in bridge seat to clear Anchor Bolts.
 3" min. clear to all Reinf.
 Location of 4" drains to be determined by the Engineer.
 Place X-bars at junction of breastwall and wing, spaced at 1'-0" vertically, 6" from back forms. Also at 4" centers, 6" below bridge seat. Bend in field to fit.

DESIGN - A. Redman
 TRACE - J. J. D.
 CHECK - J. J. D.
 BRIDGE NO. 1
 SURVEY - PLOT -
 STATE HIGHWAY COMMISSION
 BRIDGE DIVISION
ANDROSCOGGIN RIVER BRIDGE
 BETWEEN THE TOWNS OF
LIVERMORE-LIVERMORE FALLS
ANDROSCOGGIN COUNTY
 ABUTMENT NO. 1

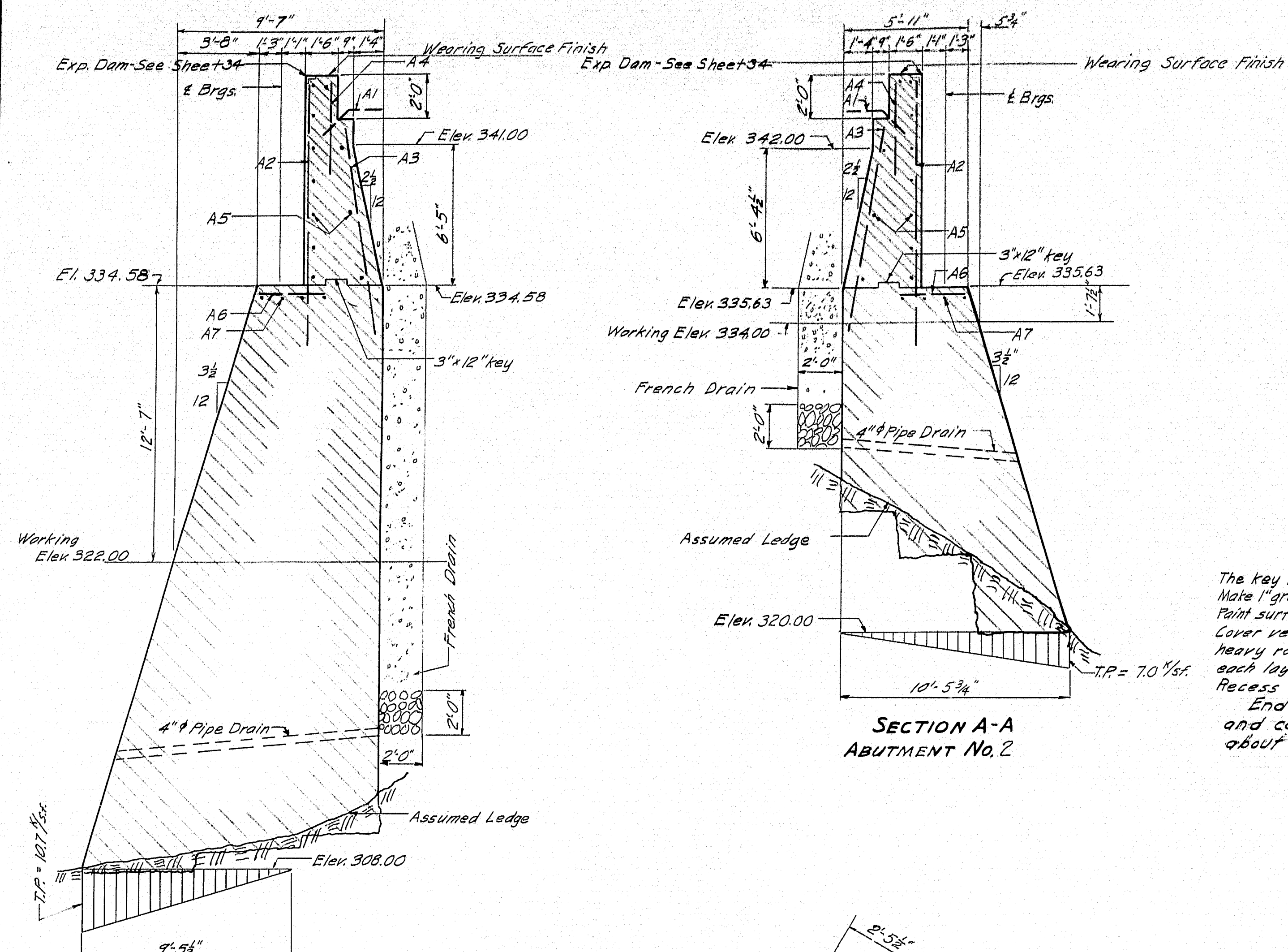
SHEET 27 OF 45 AUGUSTA, MAINE JAN. 1958

S. P. R. No.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-021-1(2)	28	45



DESIGN - REDMAN	BRIDGE NO.
TRACE - HICKS	77-2
CHECK - 77-2	
STATE HIGHWAY COMMISSION	
BRIDGE DIVISION	
ANDROSCOGGIN RIVER BRIDGE	
BETWEEN THE TOWNS OF	
LIVERMORE-LIVERMORE FALLS	
ANDROSCOGGIN COUNTY	
ABUTMENT NO. 2	
SHEET 28 OF 45 AUGUSTA, MAINE JAN. 1958	

B. P. R. Req. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-021-1(2)	29	45



SECTION A-A
ABUTMENT No. 2

VERTICAL CONSTRUCTION JOINTS

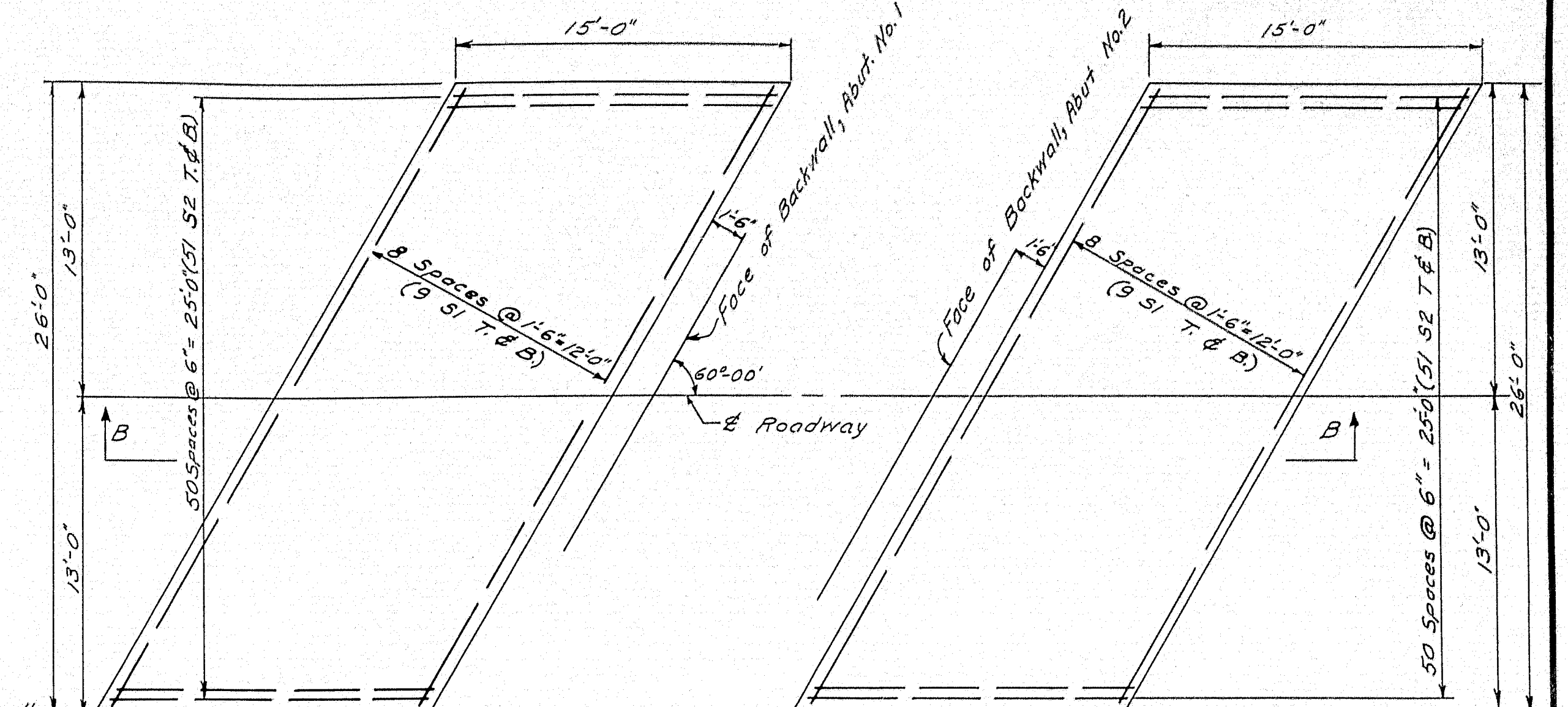
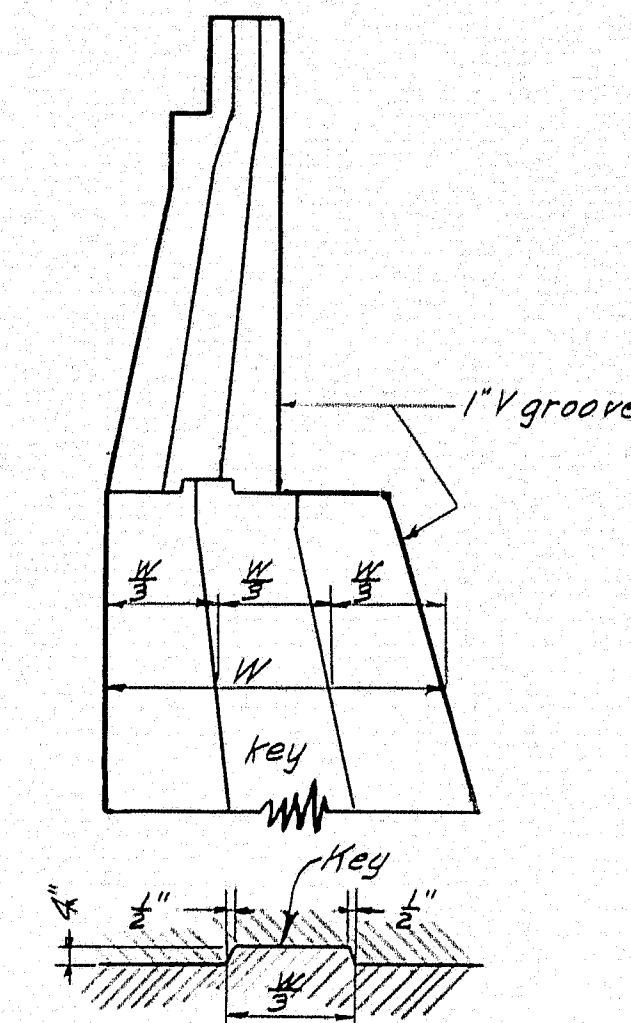
The key in vertical construction joints shall be $\frac{1}{2}$ the width of the wall. Make 1" V groove along joint in face of wall.

Point surface of concrete in the joint with a suitable grade of roofing cement to prevent bond.

Cover vertical construction joints on the back side with two layers of heavy roofing 10" wide. Coat the concrete and the contact surface of each layer of roofing as applied with a suitable grade of roofing cement.

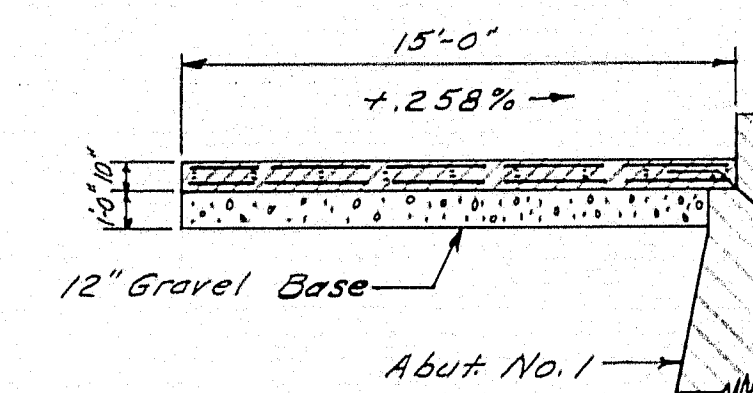
Recess the area to be covered."

End keys 1 $\frac{1}{2}$ " below top of construction joints in wings and carry 1" V groove across top and down the rear side about 1 $\frac{1}{2}$ ".

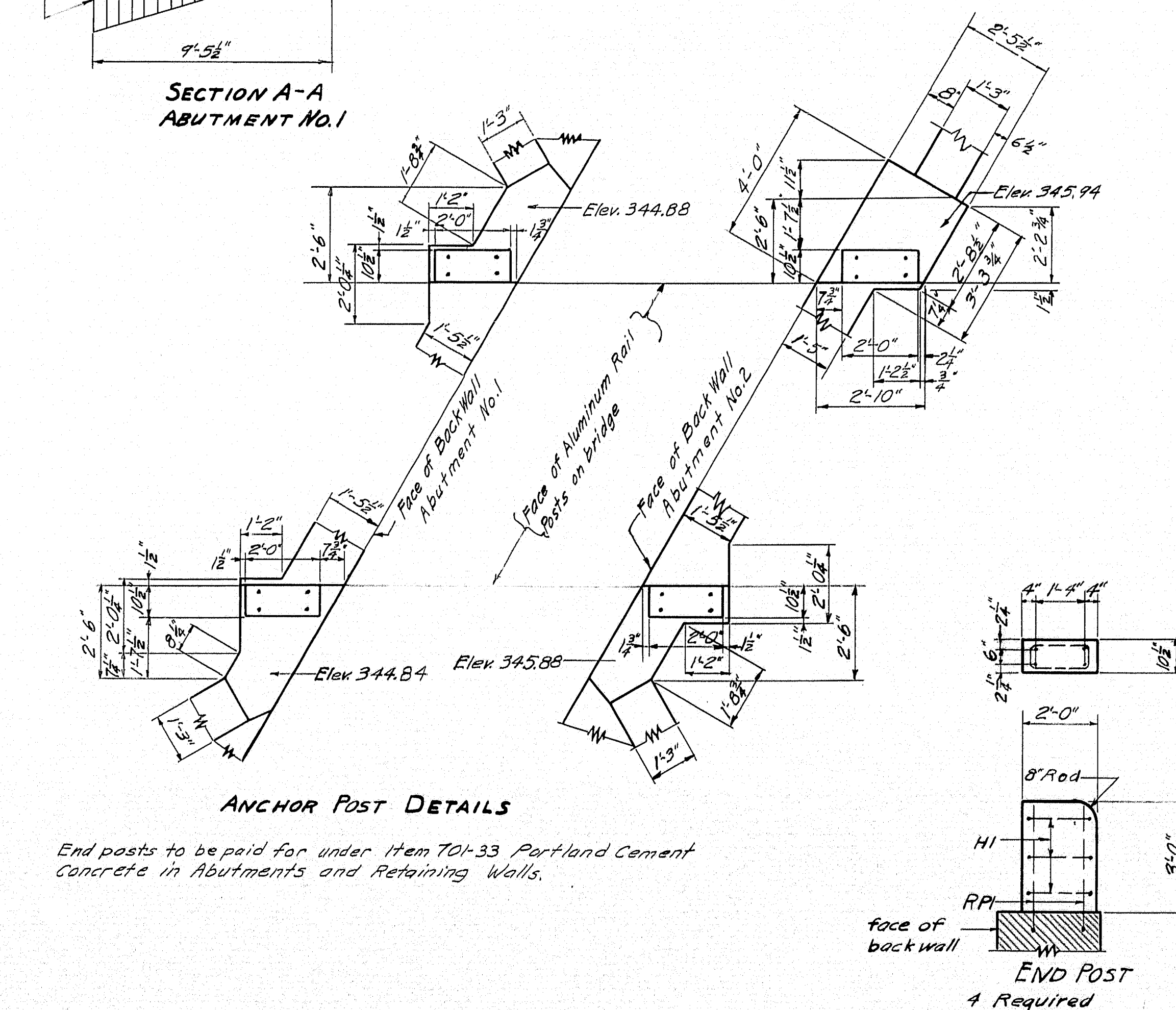
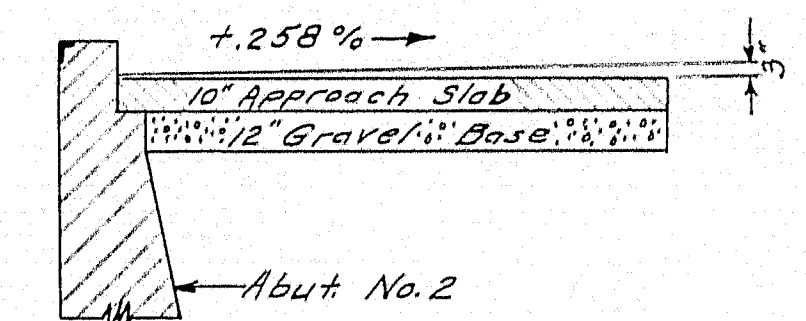


PLAN-APPROACH SLABS

NOTE:
Approach Slabs to be paid for under
Item 701-40, Portland Cement Concrete,
Roadway and Sidewalk Slabs on Steel
Bridges.

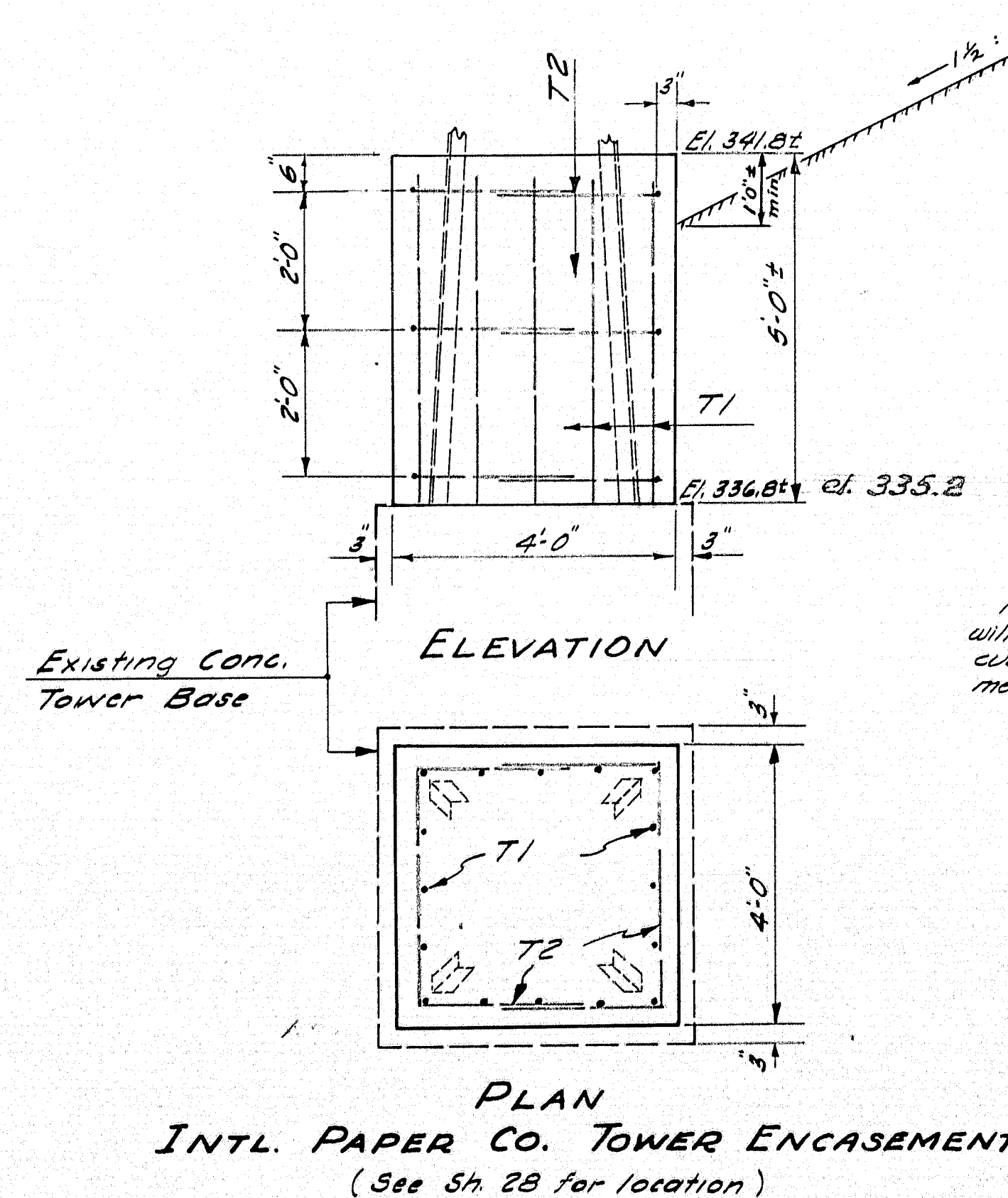


SECTION B-B



ANCHOR POST DETAILS

End posts to be paid for under Item 701-33 Portland Cement Concrete in Abutments and Retaining Walls.



ELEVATION

Payment for the concrete in the tower encasement will be paid for at the contract unit price per cubic yard for "Portland Cement Concrete, Abutments and Retaining Walls," Item 701-33.

PLAN
INTL. PAPER CO. TOWER ENCASEMENT
(See Sh. 28 for location)

Tower note added 5-9-58 E.M.

DESIGN - A.H.A.	BRIDGE NO.
TRACE - M.H.A.	SURVEY -
CHECK - 702	PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

ANDROSCOGGIN RIVER BRIDGE

BETWEEN THE TOWNS OF

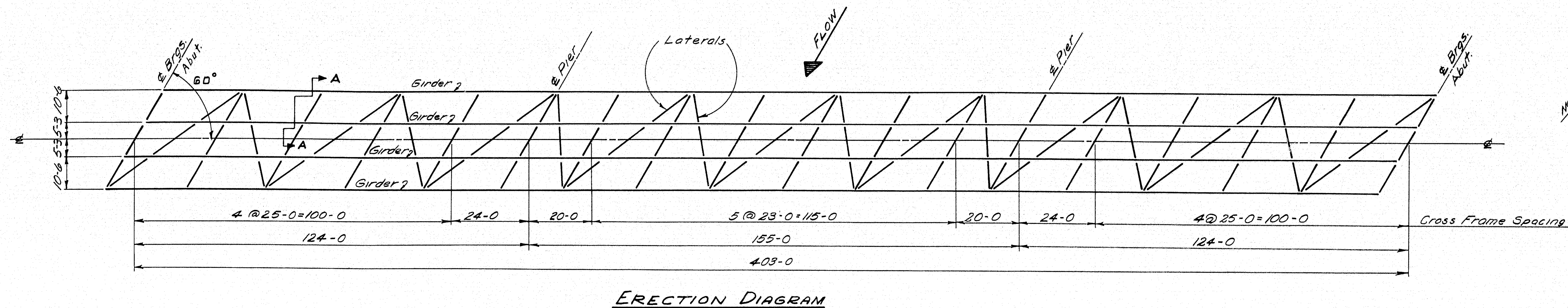
LIVERMORE-LIVERMORE FALLS

ANDROSCOGGIN COUNTY

ABUTMENT DETAILS

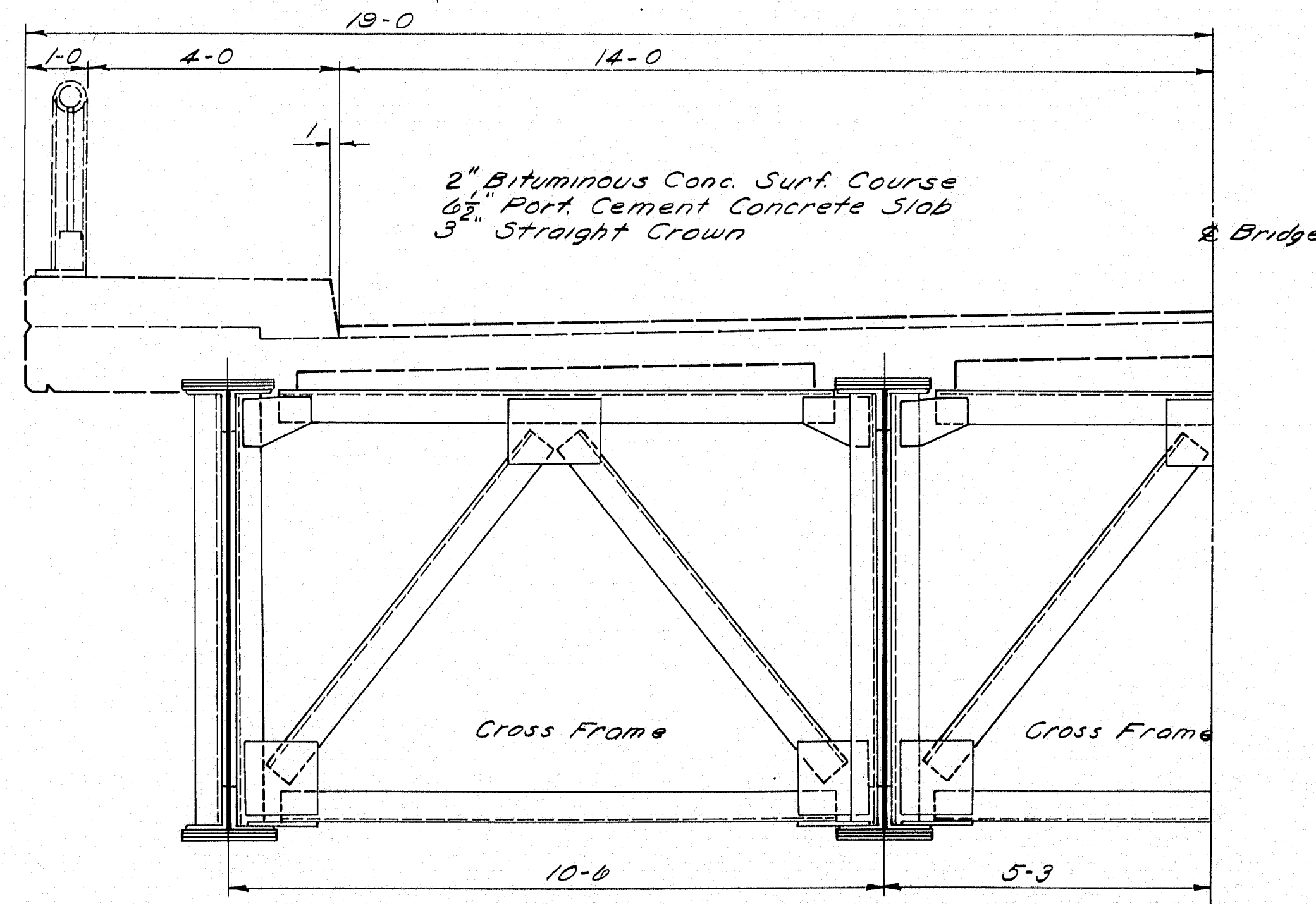
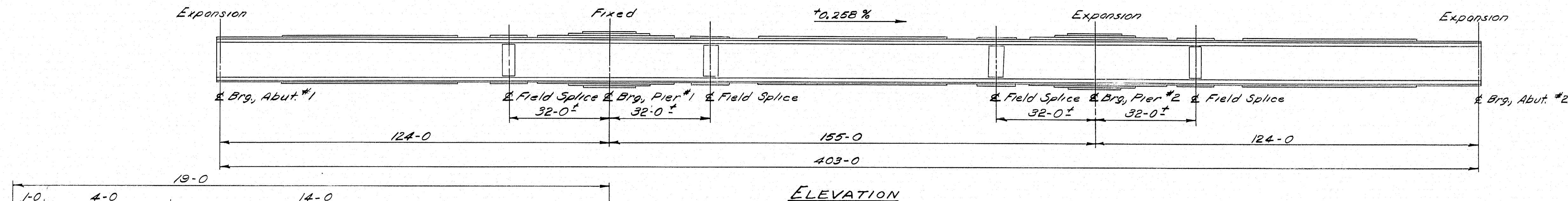
SHEET 29 OF 45 AUGUSTA, MAINE JAN. 1958.

S. P. R.	STATE	PROJECT NUMBER	SHEET	TOTAL
REV. NO.			NO.	SHEETS
1	MAINE	F-021-1(2)	31	45



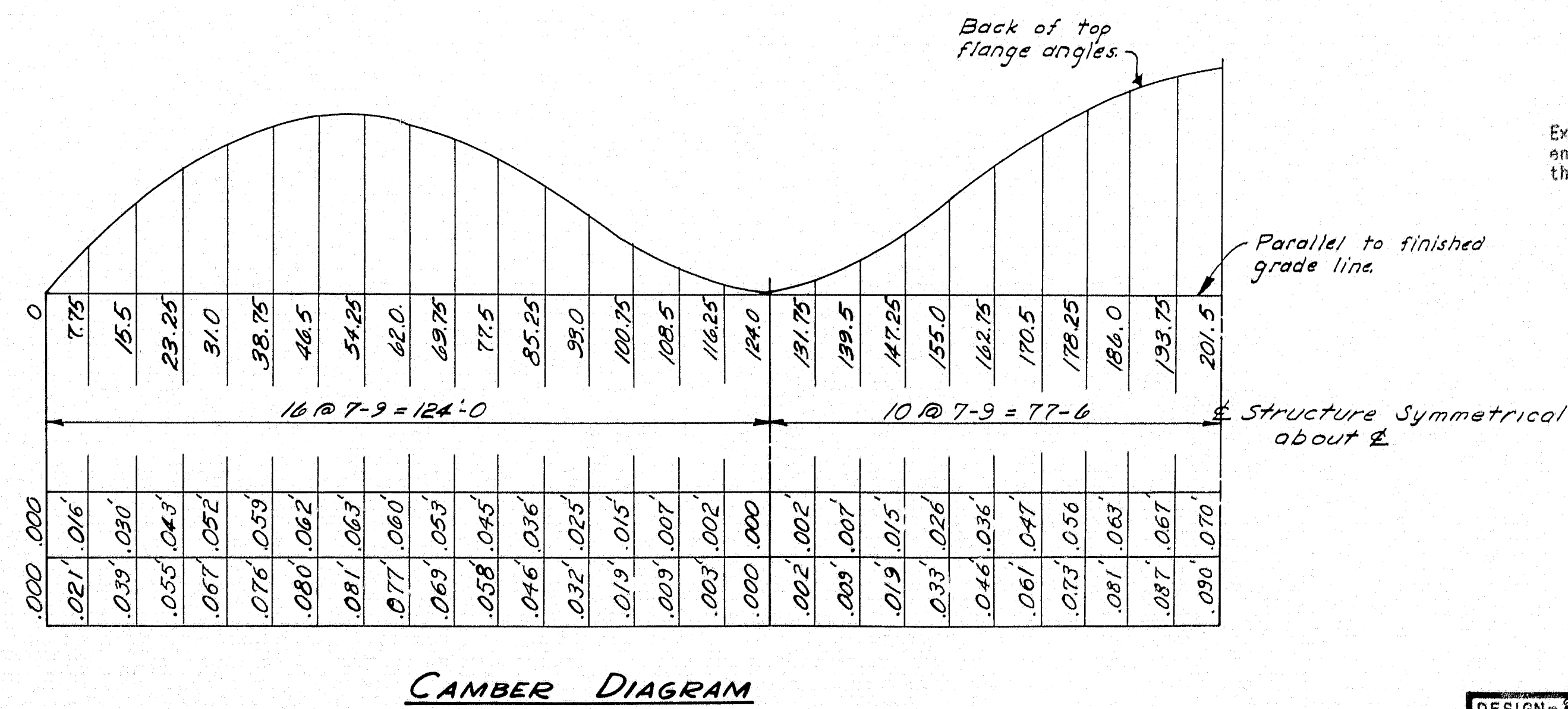
SPECIFICATIONS FOR STRUCTURAL STEEL
 Materials, Fabrication and Erection shall conform to the State of Maine, Highway Commission Standard Specifications for Highways and Bridges, Revision of January, 1956.
 Design shall conform to the A.A.S.H.O. Standard Specifications for Highway Bridges, 1953.

NOTES
 All girders alike except for lateral bracing and cross frame connections. Dimensions shown are horizontal. Shop connections 7/8" Rivets, Field Connections 7/8" Rivets or High Tensile bolts.
 Open Holes 15/16" unless noted.
 Camber all girders for Total Dead Load as shown by Camber Diagram.
 Loading H 20 S 16



Note: Furnishing and Erection of Wrought Iron Pipe Drains to be paid for as Structural Steel under Items 702-103 & 702-104. See sheet 36 for Drain Details.

Conc. D.L. Defl.
 Total D.L. Defl.



DESIGN DATA - INTERIOR & EXTERIOR GIRDERS					
	Max. Mom.	Gross I	Net I	Max. Shear	Max. React.
Abut. #1		94,990"		163"	163"
Span #1	+3751"	135,750	108,980"		
Pier #1	-6640	238,490	197,450	251"	+62"
Span #2	+3482	127,510	101,880		

DESIGN - *Smith* DET. *REDMAN* BRIDGE NO. _____
 TRACE - *Smith* SURVEY - _____
 CHECK - *Redman* PLOT - _____

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

ANDROSCOGGIN RIVER BRIDGE

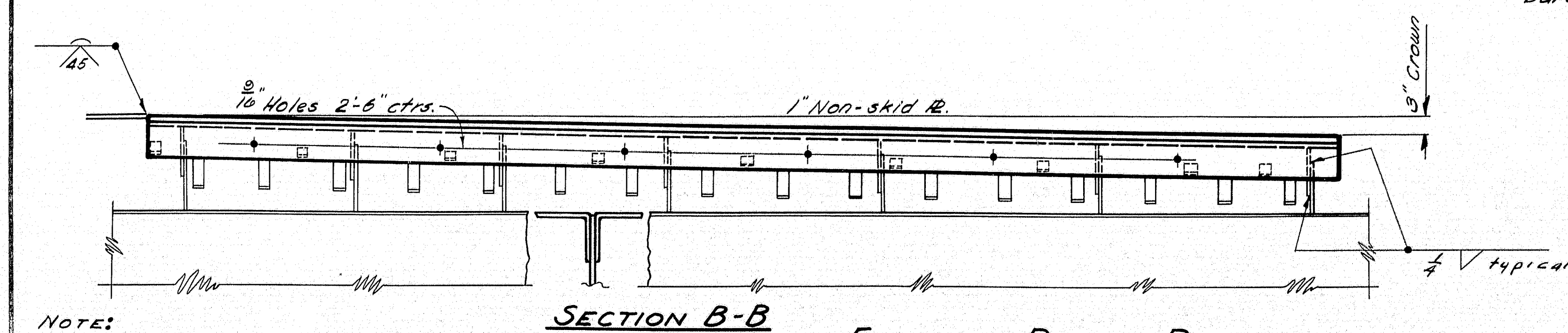
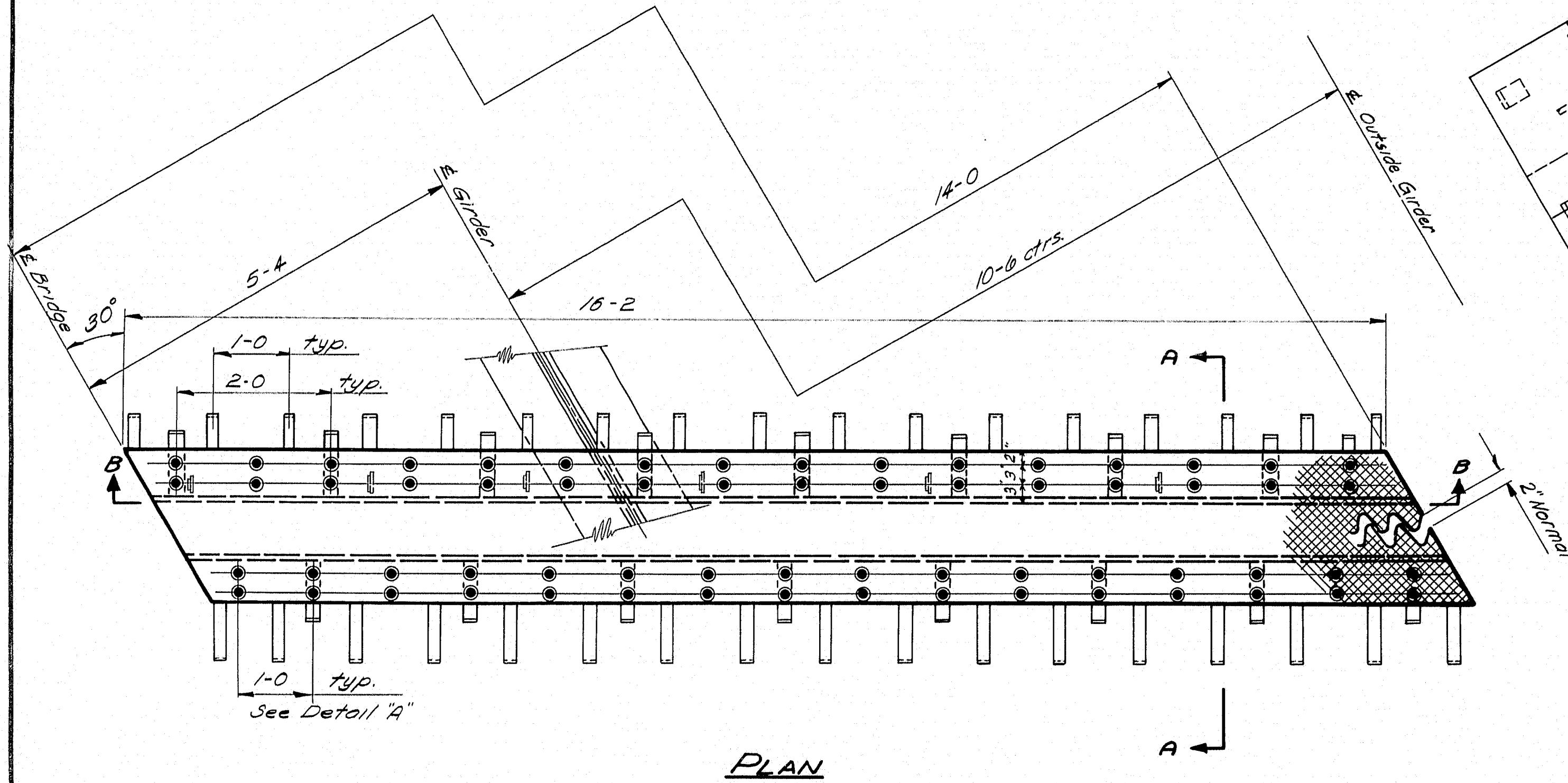
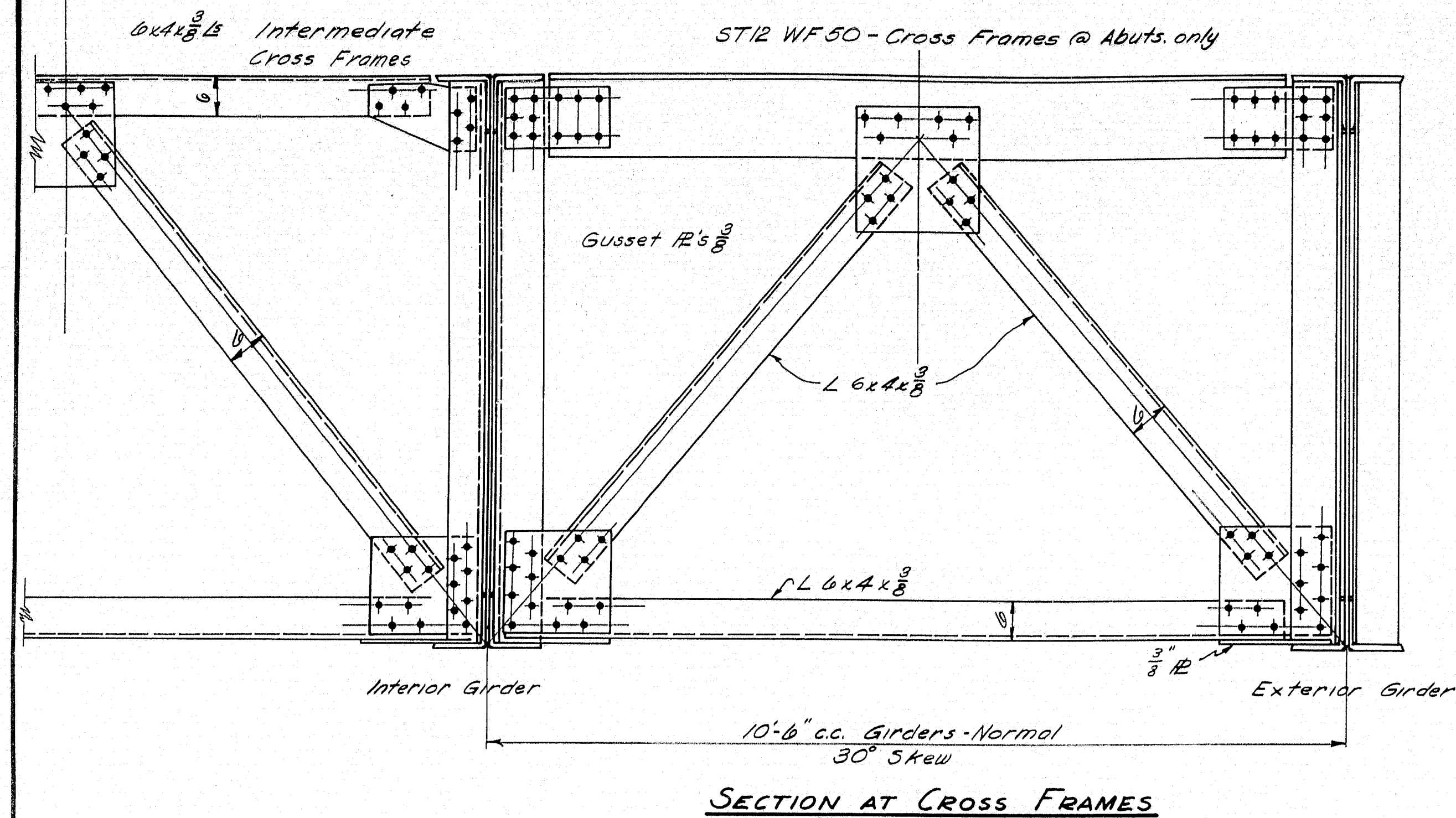
BETWEEN THE TOWNS OF
LIVERMORE-LIVERMORE FALLS

ANDROSCOGGIN COUNTY

STRUCTURAL STEEL
ERECTOR DIAGRAM

SHEET 31 OF 45 AUGUSTA, MAINE JAN. 1958

B. P. R. REQ. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	FO21-1(2)	34	45

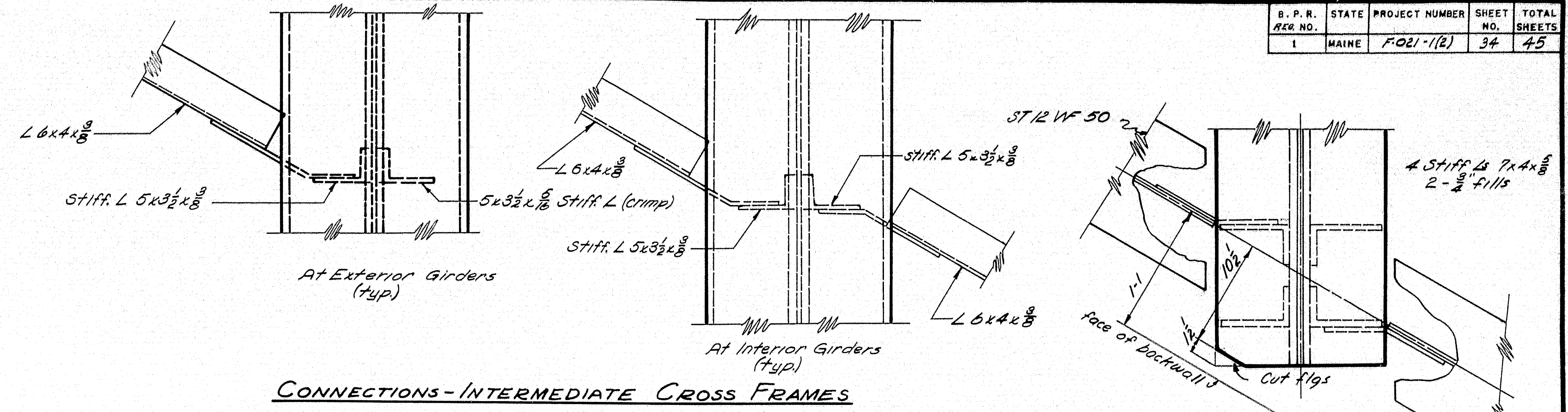


NOTE: When finger cuts are completed, match-mark the half-plates and ship bolted together in matched sets. Plates for matching sections shall be cut from a single plate.

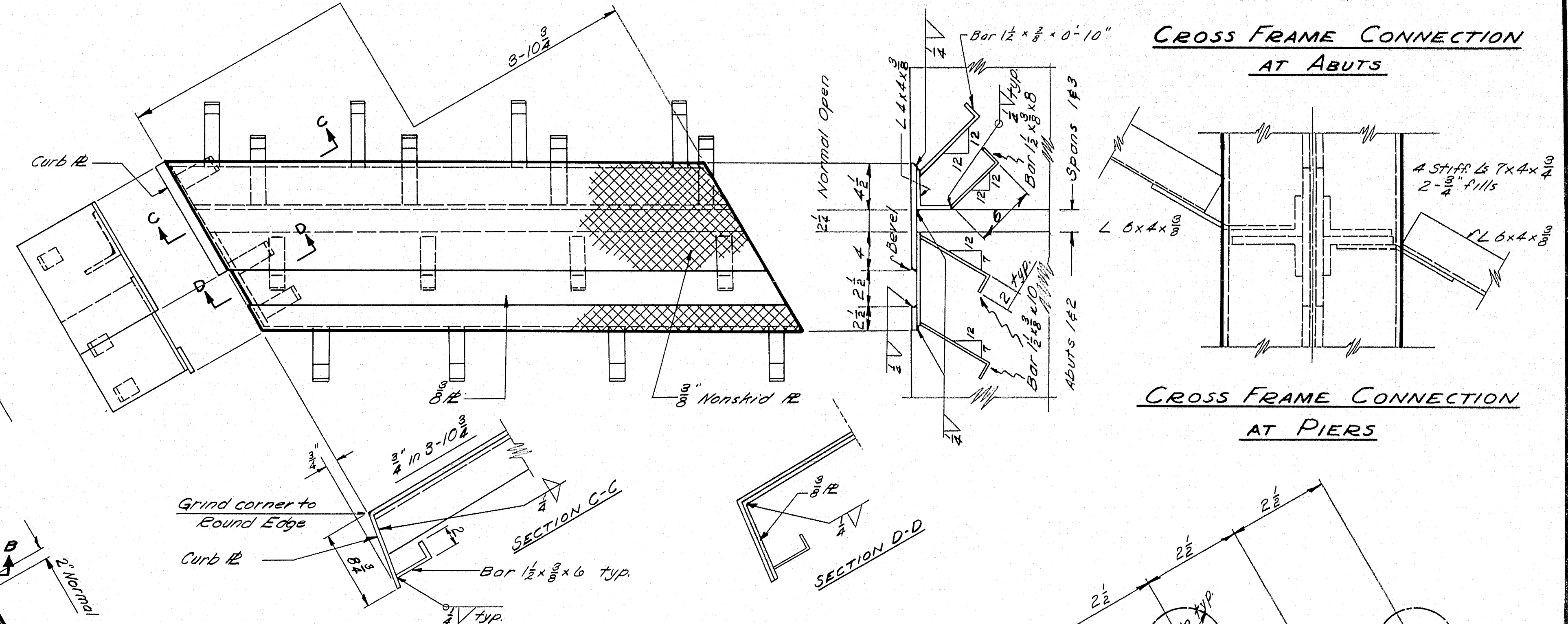
SECTION B-5

EXPANSION PLATES - ROADWAY

2 reg'd Right hand as shown
2 reg'd Opp. hand



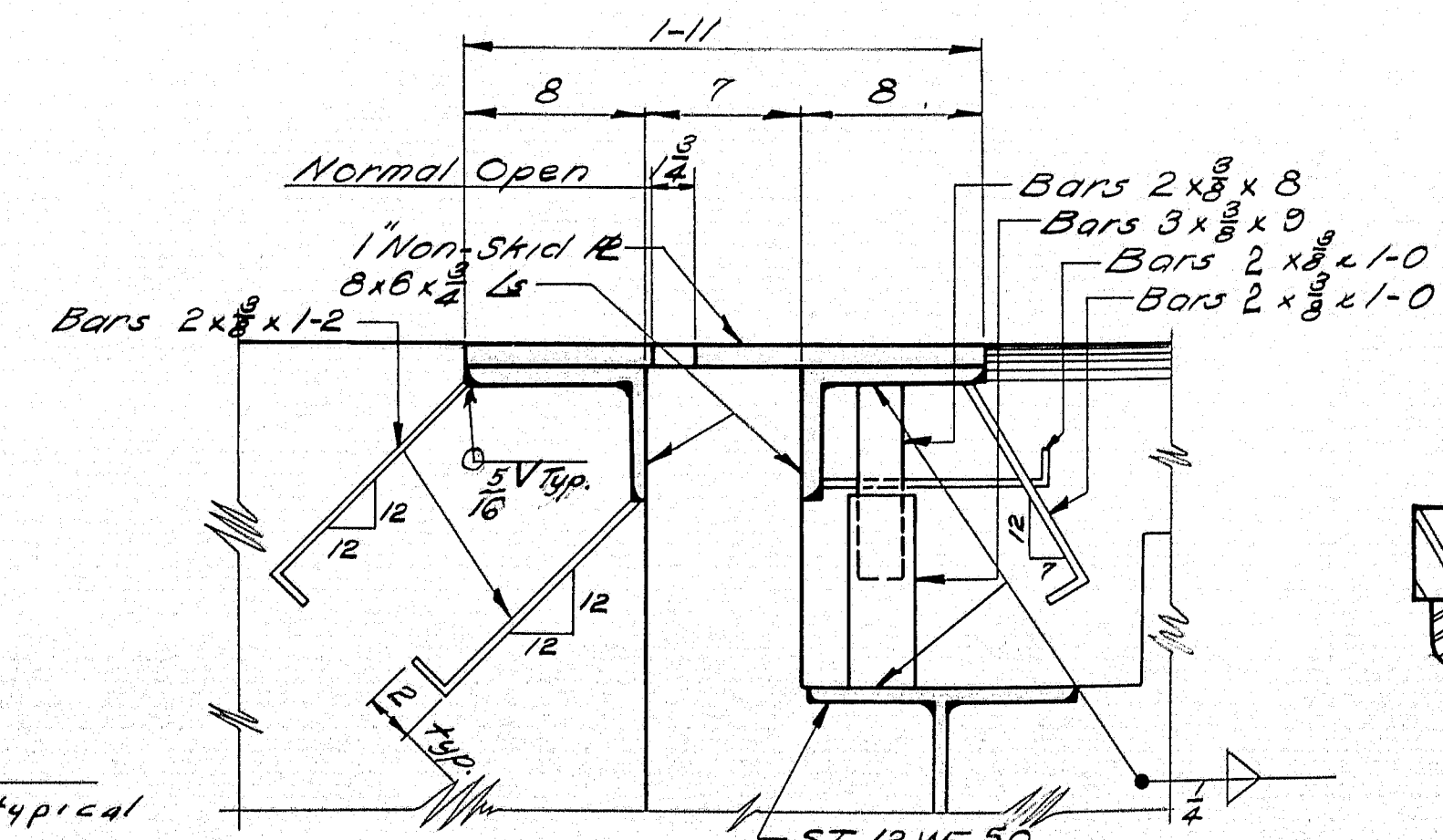
CONNECTIONS-INTERMEDIATE CROSS FRAMES



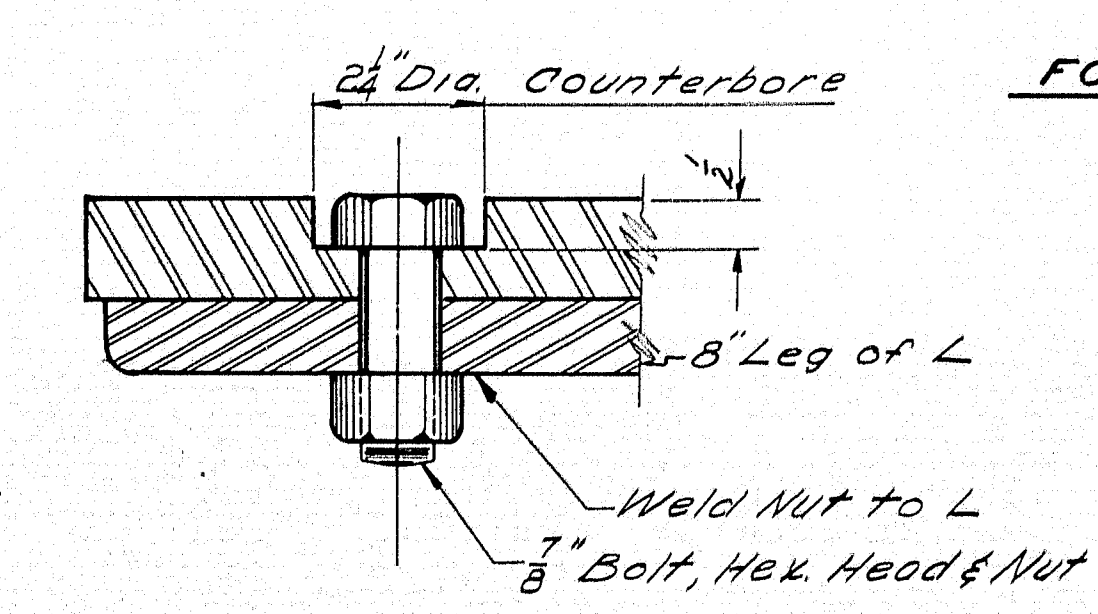
CROSS FRAME CONNECTION
AT ABUTS

CROSS FRAME CONNECTION AT PIERS

CUTTING DIAGRAM FOR EXPANSION PLATES



SECTION A-A



DETAIL A

DESIGN TRACE <i>W. H. H. H.</i>	BRIDGE NO.
CHECK <i>W. H. H. H.</i>	PILOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

ANDROSCOGGIN RIVER BRIDGE

BETWEEN THE TOWNS OF

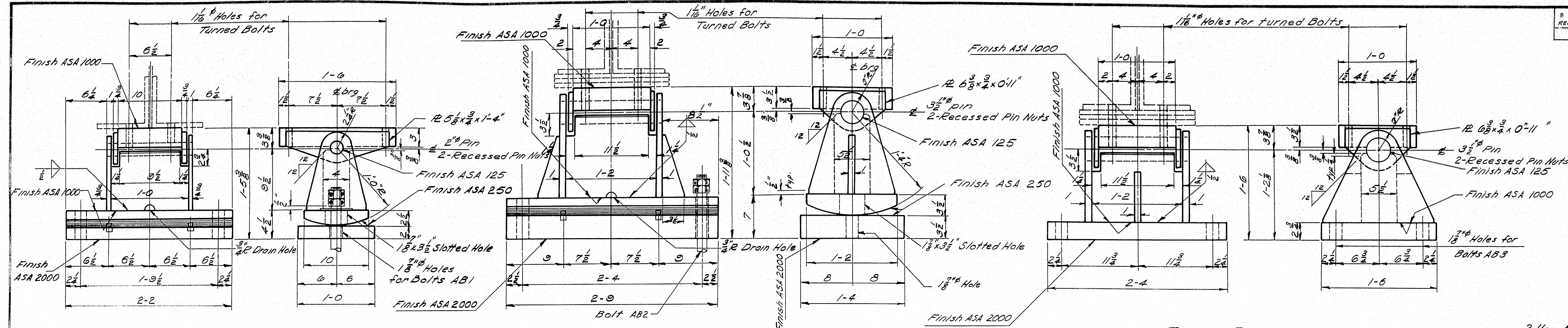
LIVERMORE-LIVERMORE FALLS

ANDROSCOGGIN COUNTY

STRUCTURAL STEEL

CROSS FRAME - EXPANSION DETAILS

SHEET *34* OF *45* AUGUSTA, MAINE JAN. 1958.



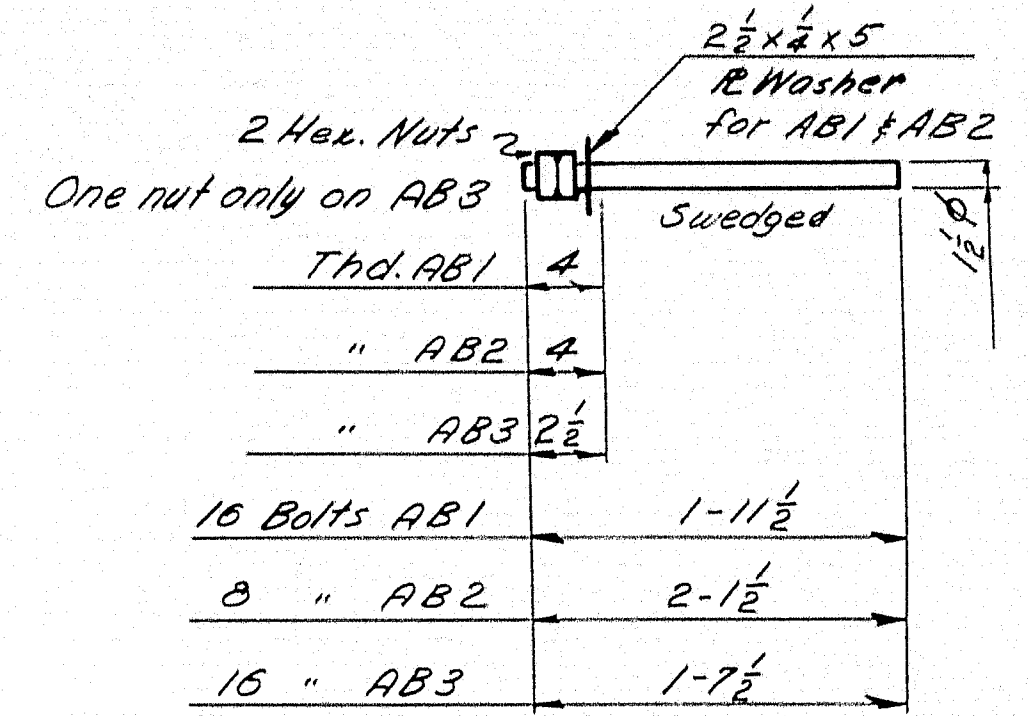
EXPANSION PEDESTALS
ABUTMENTS NOS. 1 & 2
8-Reg'd

EXPANSION PEDESTALS
PIER NO. 2
4-Reg'd

Note:
All welds - $\frac{3}{8}$ " Shop continuous fillet,
unless noted.

FIXED PEDESTALS
PIER NO. 1
4-Reg'd

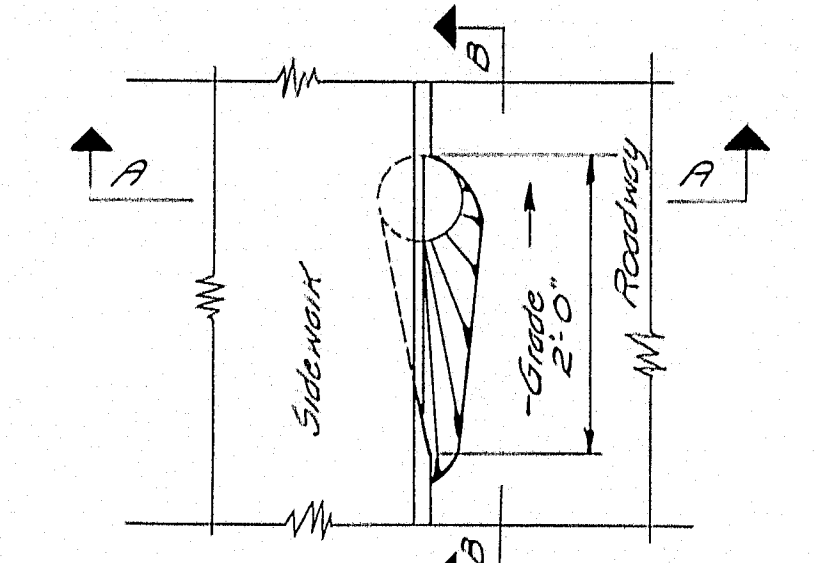
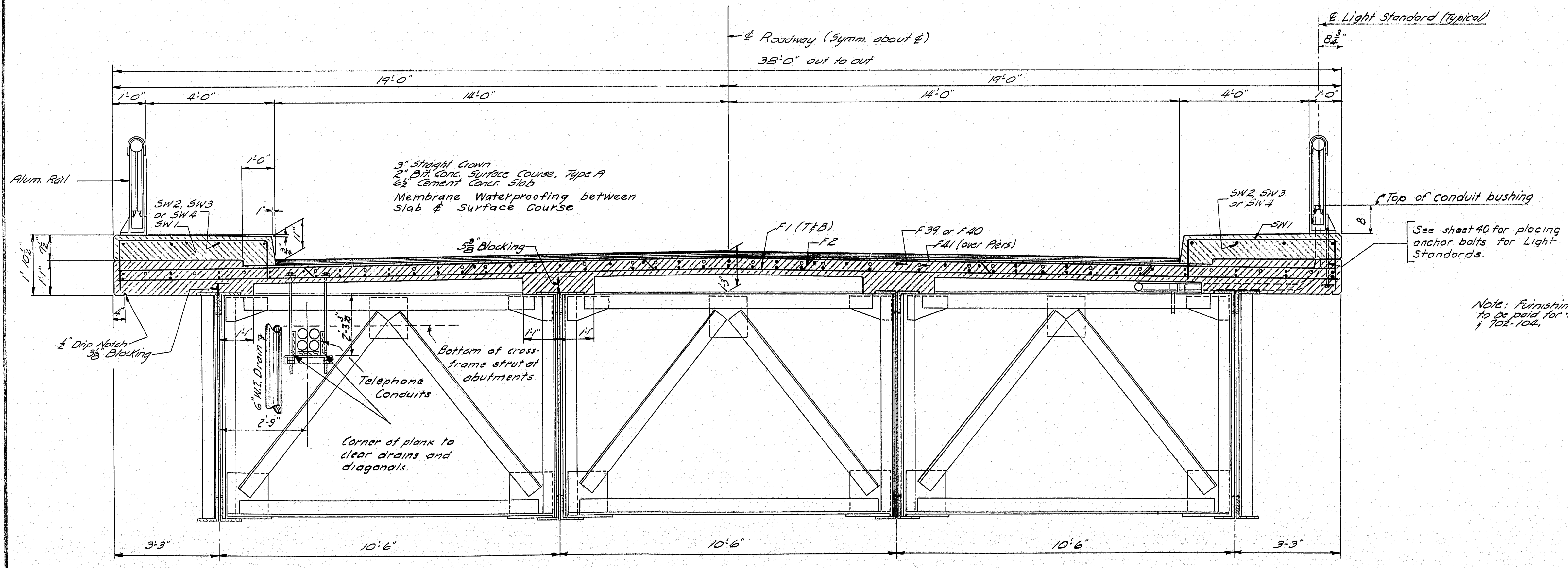
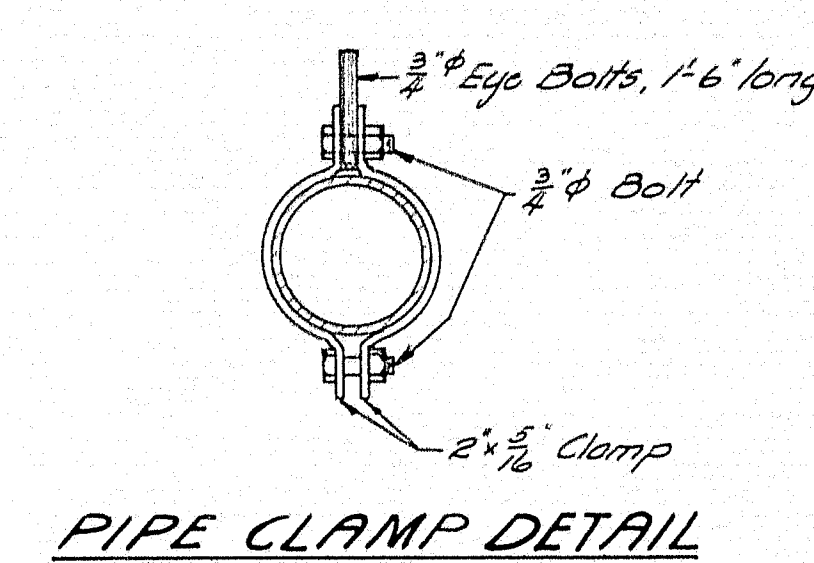
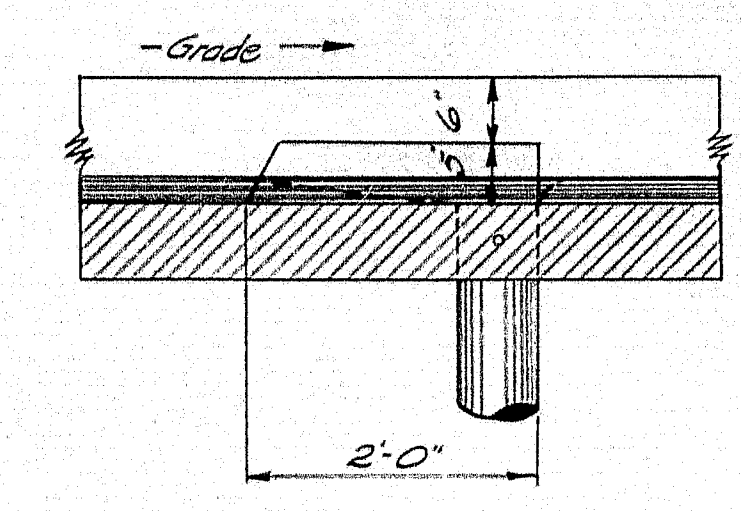
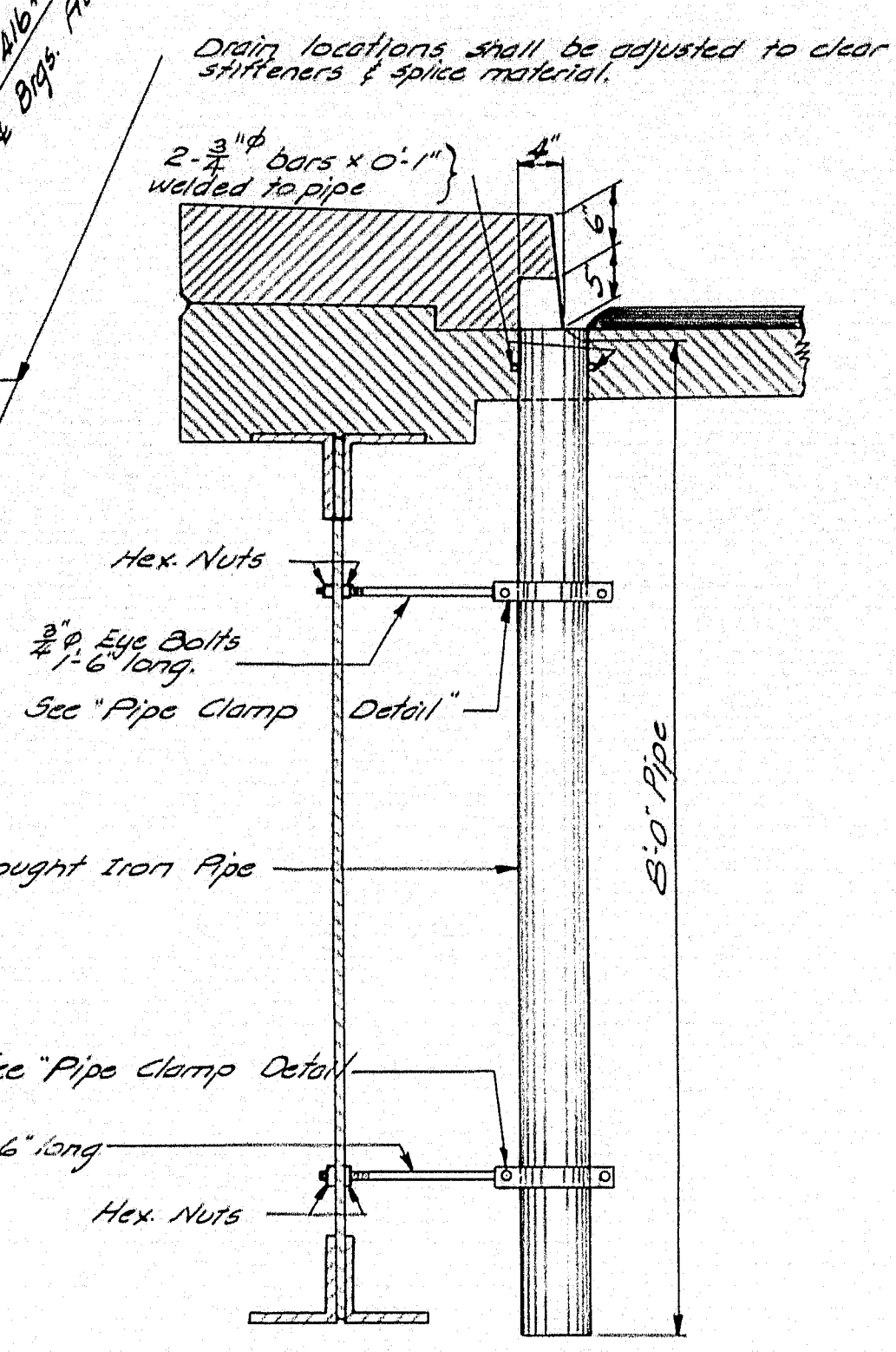
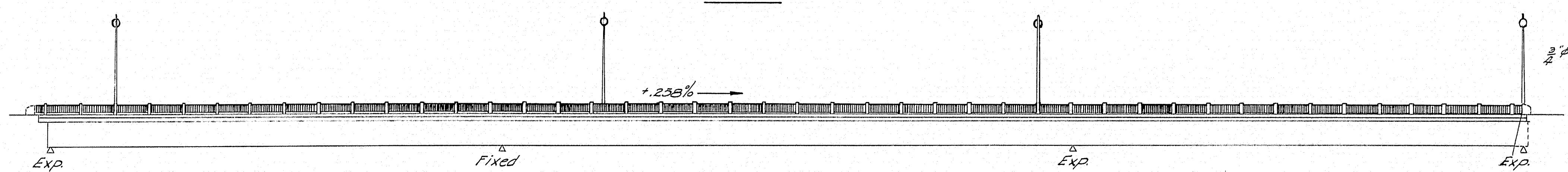
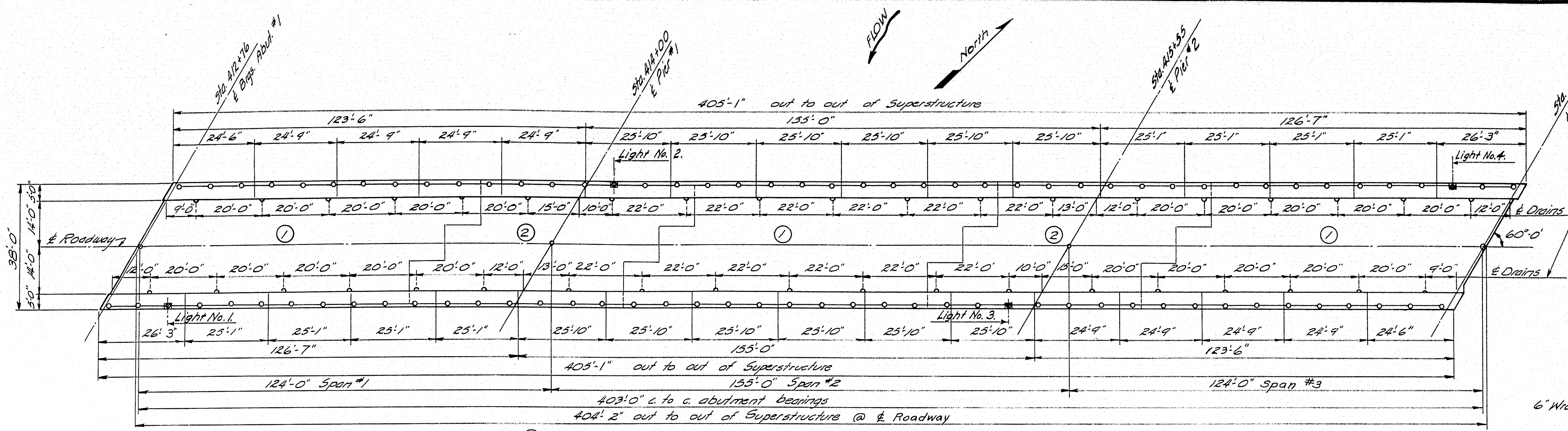
DOWEL DETAIL



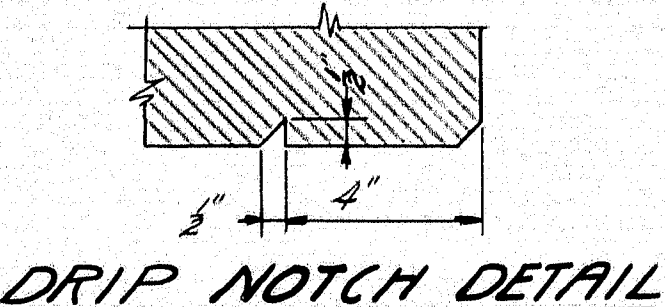
ANCHOR BOLTS
(Set 1'-3" in Masonry)

DESIGN TRADE CHECK	DET. H. Jones E. Coffin H.R.	BRIDGE NO. SURVEY PLOT
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
ANDROSCOGGIN RIVER BRIDGE		
BETWEEN THE TOWNS OF		
LIVERMORE-LIVERMORE FALLS		
ANDROSCOGGIN COUNTY		
STRUCTURAL STEEL PEDESTALS		
SHEET 35 OF 45 AUGUSTA, MAINE JAN. 1958.		

B. P. R.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-021-1(2)	36	45

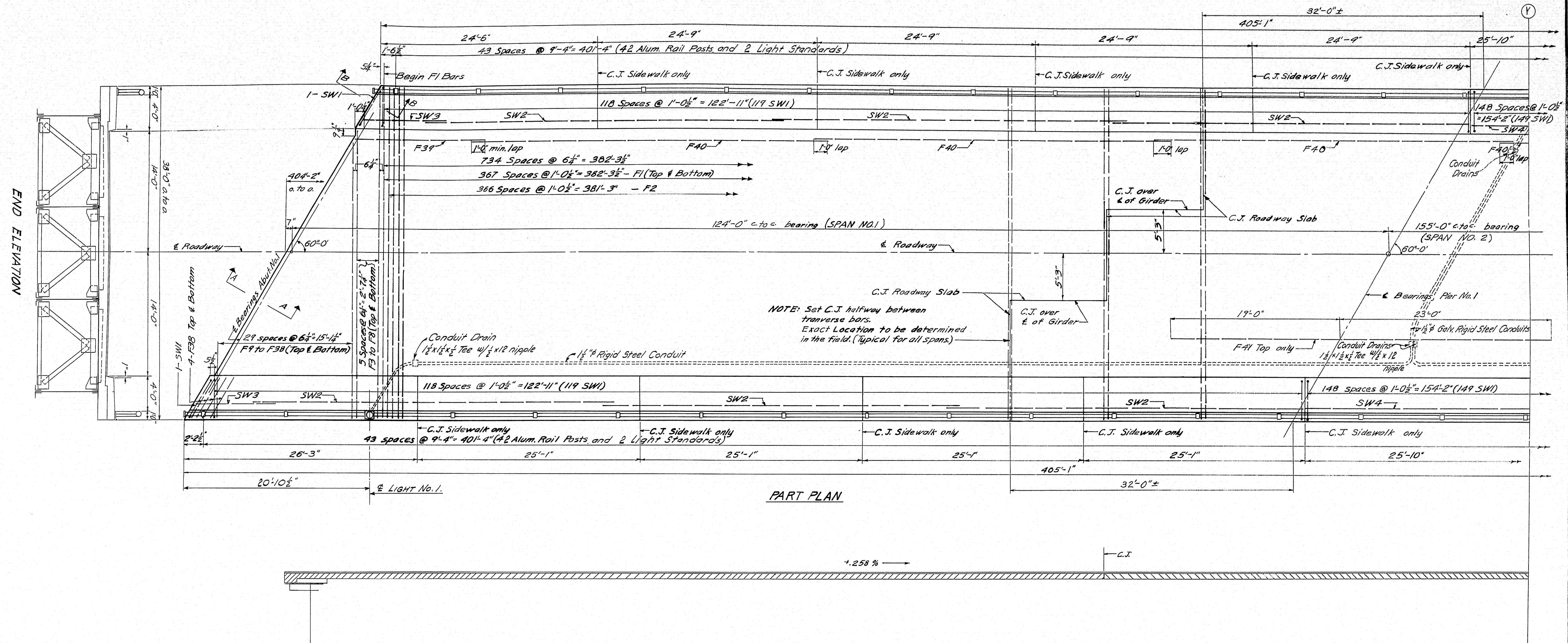


CONDUIT NOTE -
Furnishing and Erection of the Telephone Conduits and Conduit Supports to be done by others.

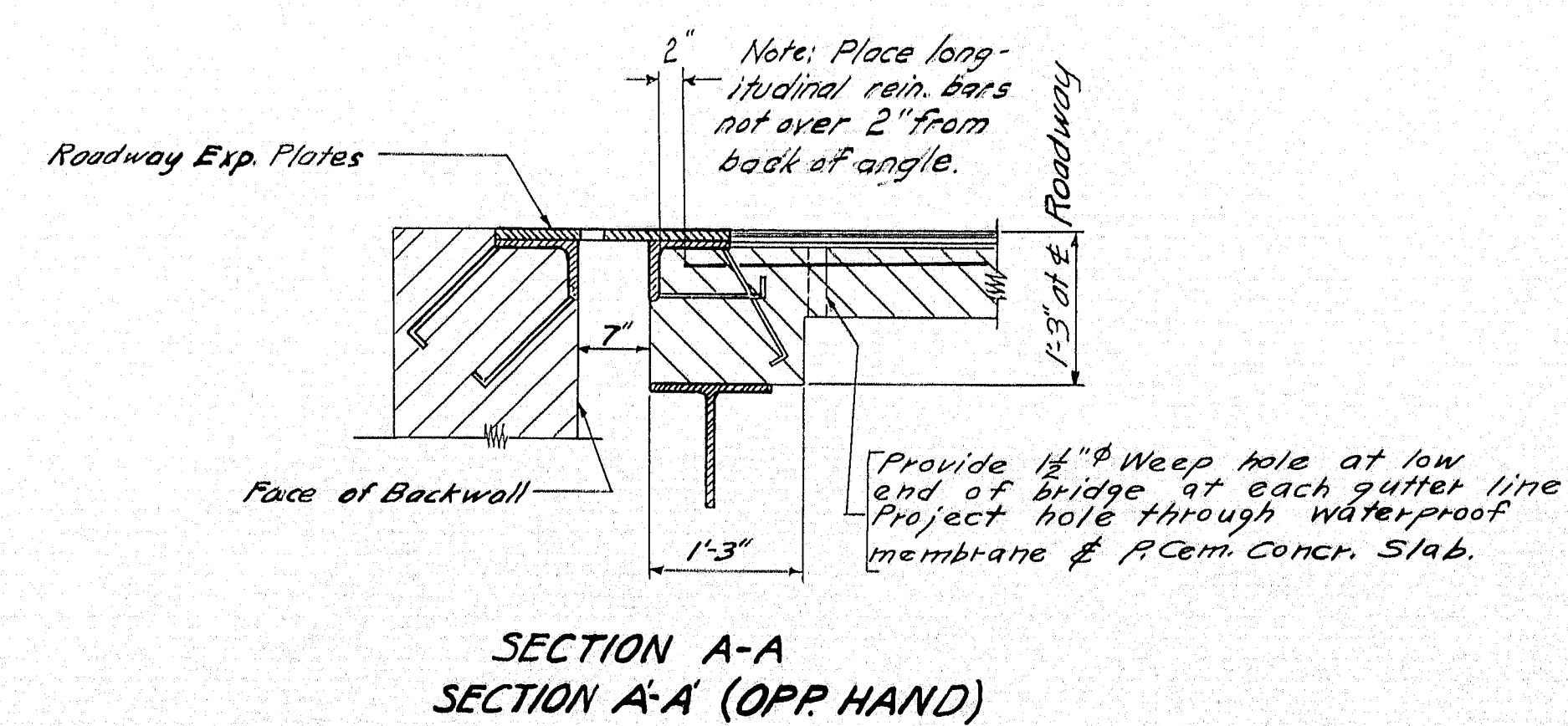


DESIGN - HAMILTON DET. - A.H.R.	BRIDGE NO.
TRACE - Murrel	PLOT -
CHECK - 2722	
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ANDROSCOGGIN RIVER BRIDGE	
BETWEEN THE TOWNS OF	
LIVERMORE-LIVERMORE FALLS	
ANDROSCOGGIN COUNTY	
SUPERSTRUCTURE DETAILS	
SHEET 36 OF 45 AUGUSTA, MAINE JAN. 1958	

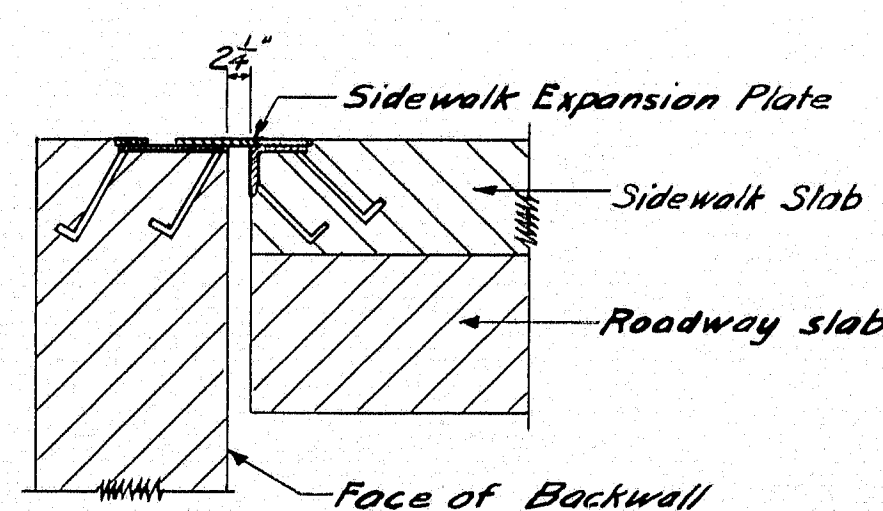
B. P. R.	STATE	PROJECT NUMBER	SHEET	TOTAL
1	MAINE	F-021-1/2	37	45



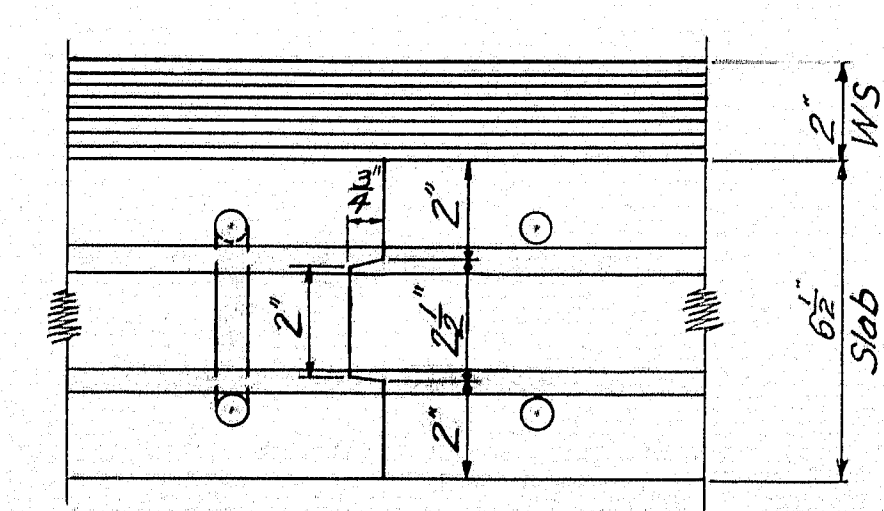
**PART LONGITUDINAL SECTION
AT ROADWAY**



**SECTION A-A
SECTION A-A (OPP. HAND)**



**SECTION B-B
SECTION B-B (OPP. HAND)**



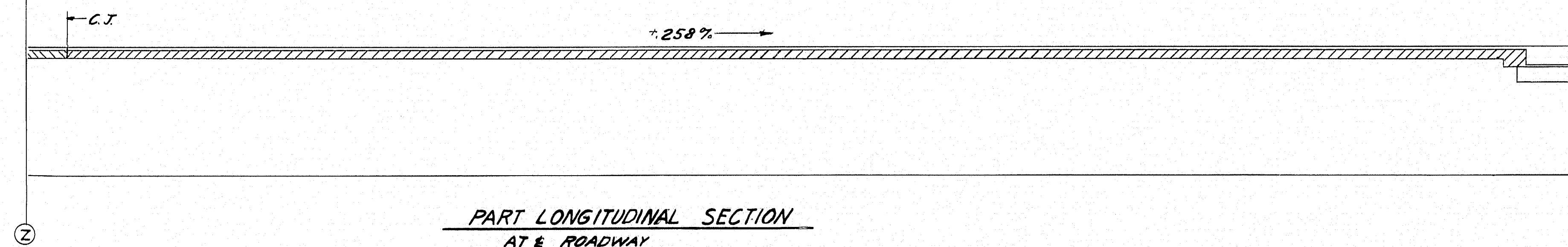
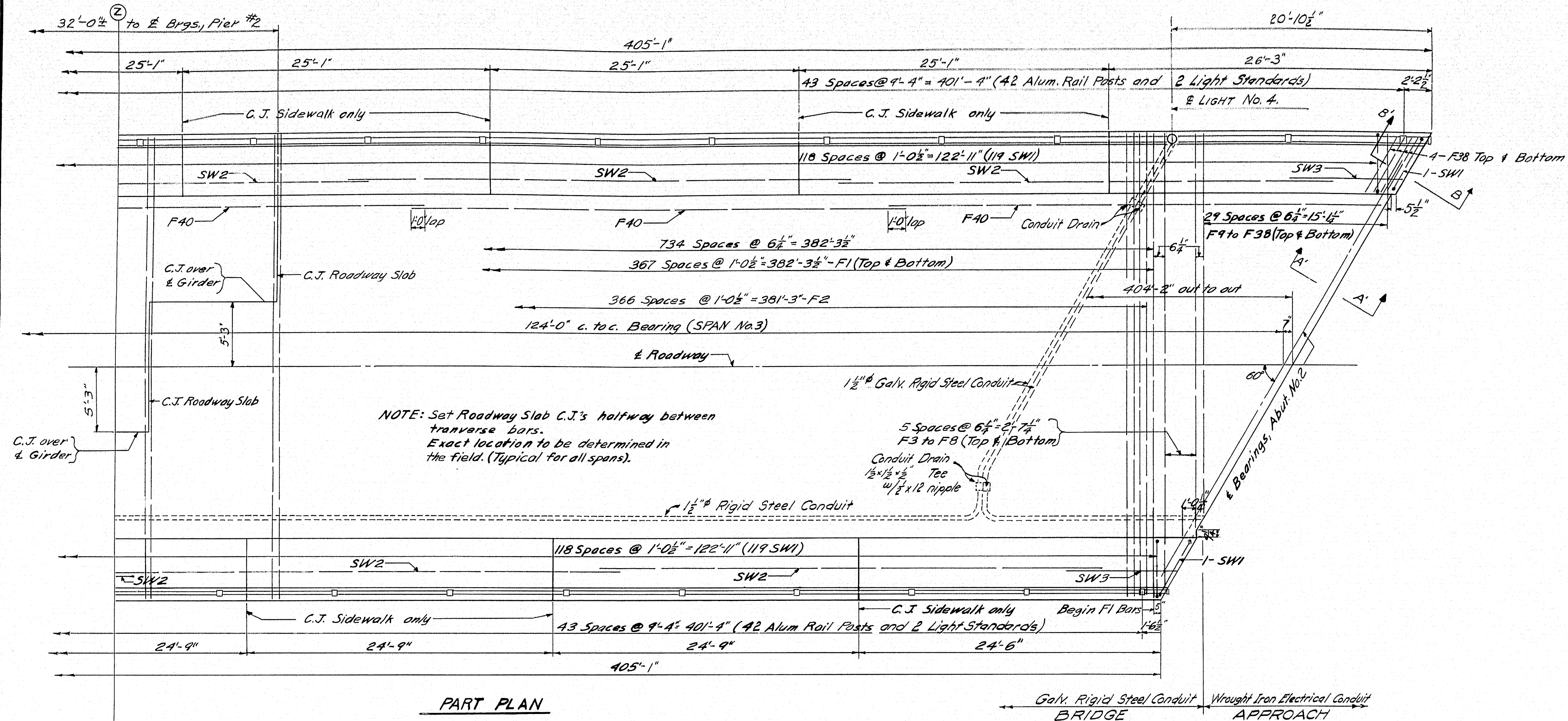
**CONSTRUCTION JOINT
NOTE: Key required at transverse joint only**

DESIGN: Hamilton Det: A.H.A. BRIDGE NO. 7222
TRACE: M.N.H. SURVEY PLOT
CHECK: 7222

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

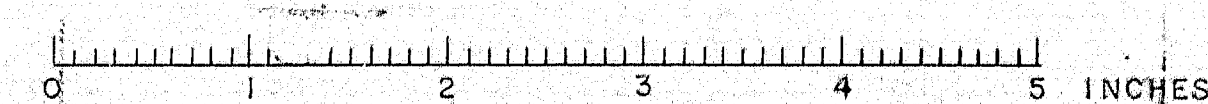
ANDROSCOGGIN RIVER BRIDGE
BETWEEN THE TOWNS OF
LIVERMORE-LIVERMORE FALLS
ANDROSCOGGIN COUNTY
SUPERSTRUCTURE SLAB DETAILS
SHEET 37 OF 45 AUGUSTA, MAINE JAN. 1958.

S. P. R. App. No.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-021-1/2	39	45

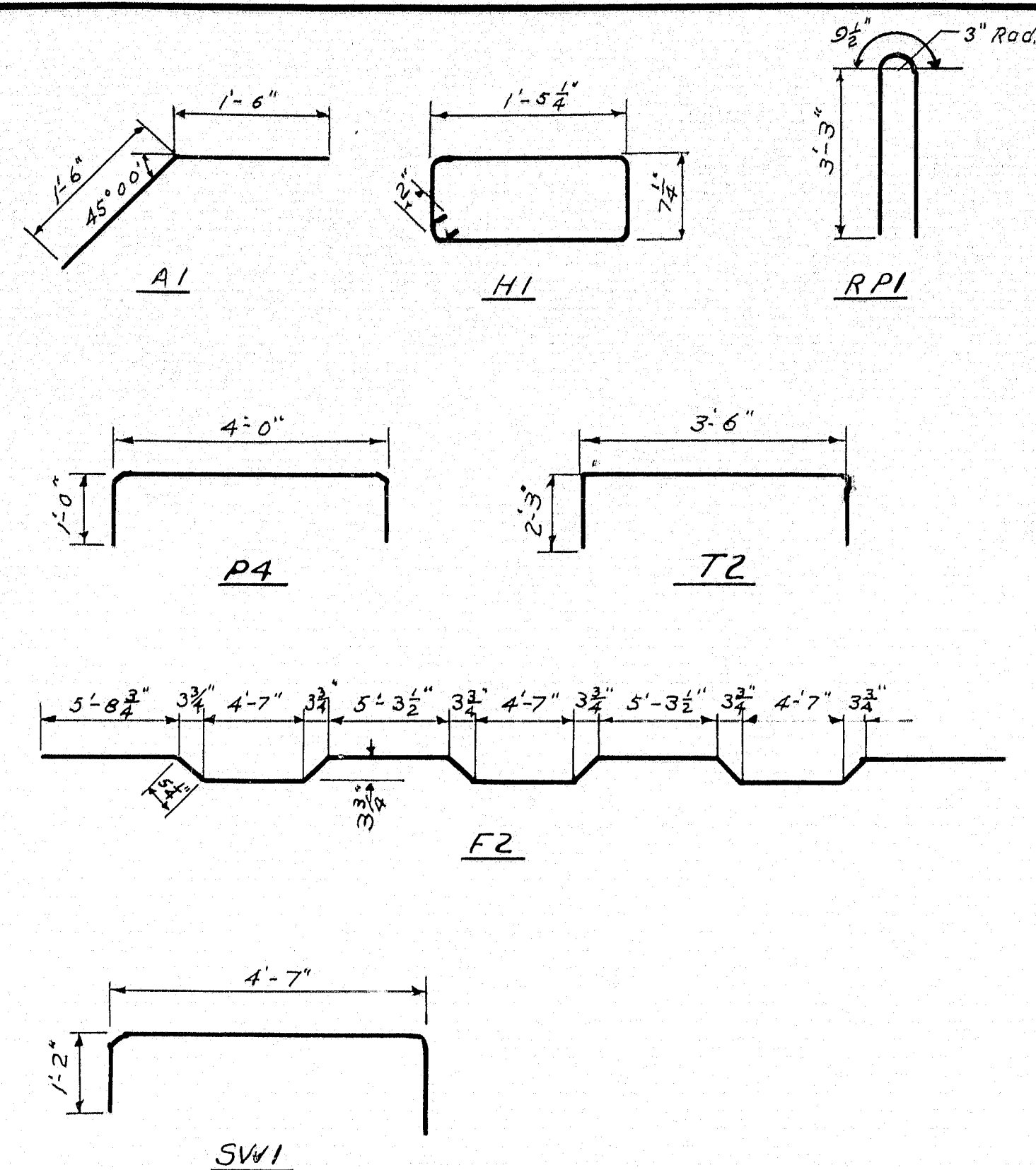


NOTE: Sections A-A' and B-B' and Construction Joint detail are shown on Sheet 37.

DESIGN - W.B.H. TRACE - W.M.H. CHECK - W.S.D.	Det. A.H.R.	BRIDGE NO. SURVEY PLOT
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
ANDROSCOGGIN RIVER BRIDGE		
BETWEEN THE TOWNS OF		
LIVERMORE-LIVERMORE FALLS		
ANDROSCOGGIN COUNTY		
SUPERSTRUCTURE SLAB DETAILS		
SHEET 39 OF 45 AUGUSTA, MAINE JAN. 1958.		



B. P. R.	STATS	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	FOG 11/10	41	45



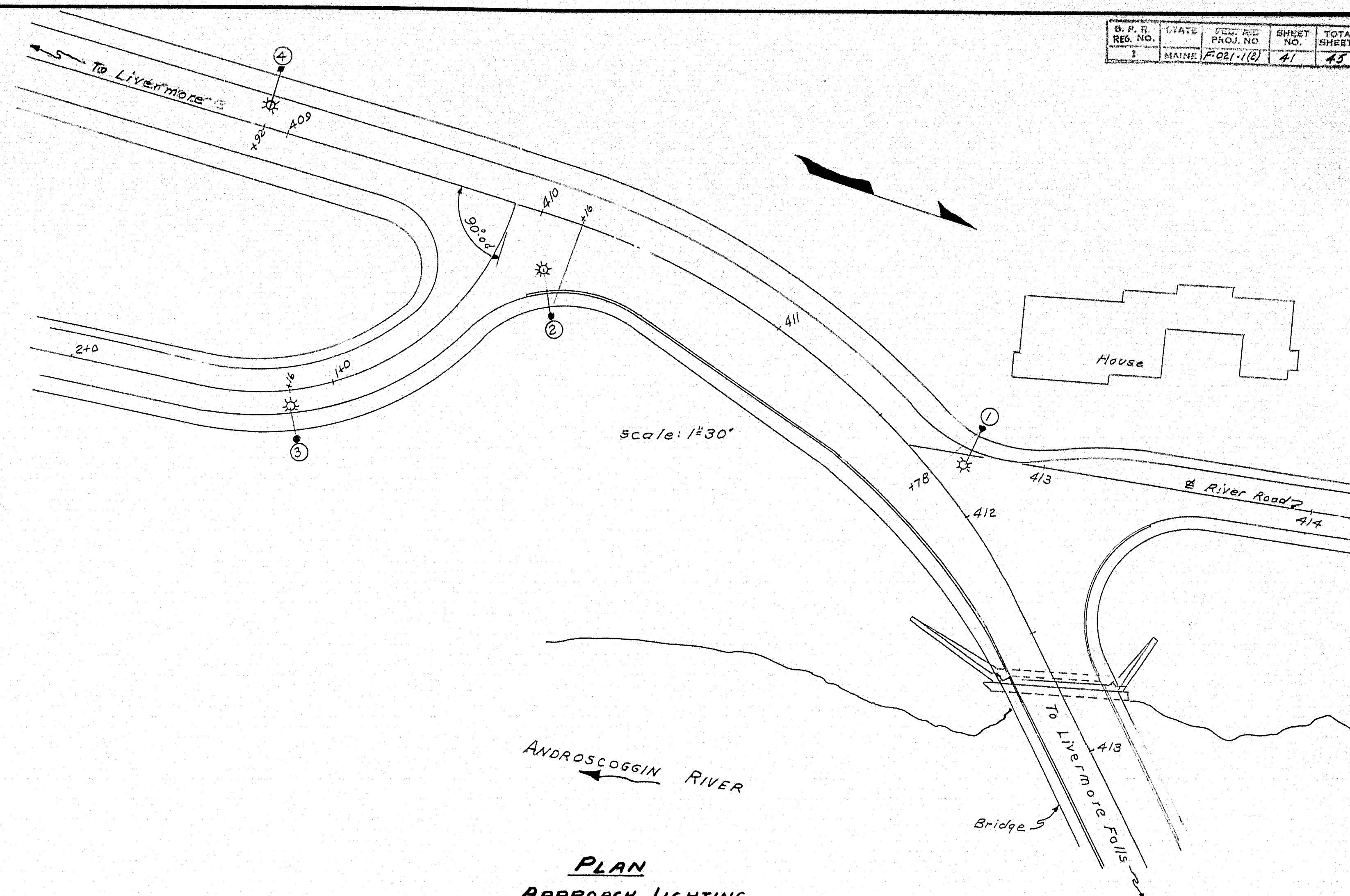
Dimensions are to $\frac{1}{4}$ Steel

BENT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
A1	#6	44	3'-0"	Abut. Approach Slab Dowels
H1	#3	12	4'-5"	Abut. End Posts
RPI	#6	8	7'-3"	do
P4	#6	56	6'-0"	Pier #1 & Pier #2
T2	#4	6	8'-0"	I.P.Co. Tower Encasement
F2	#6	367	38'-5"	Superstructure Slab
SW1	#6	774	7'-3"	Superstructure Sidewalk

STRAIGHT BARS

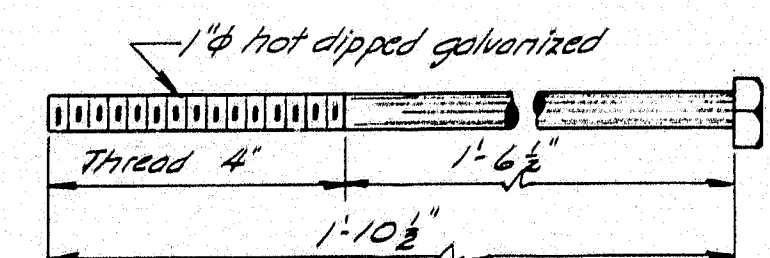
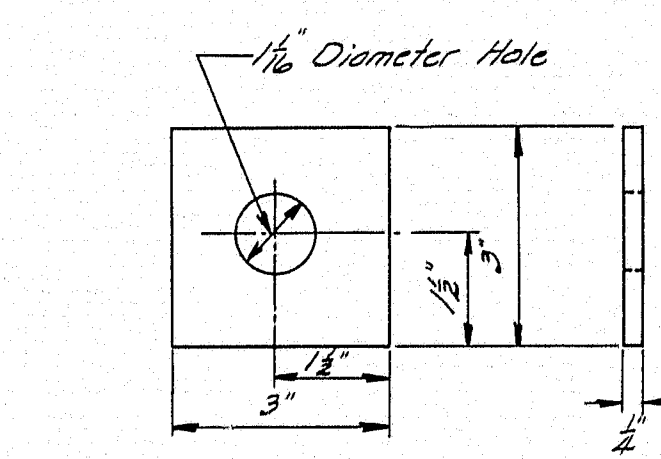
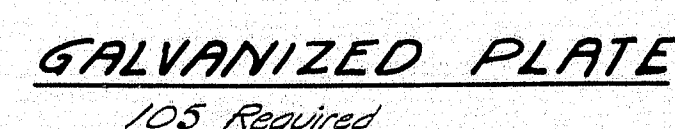
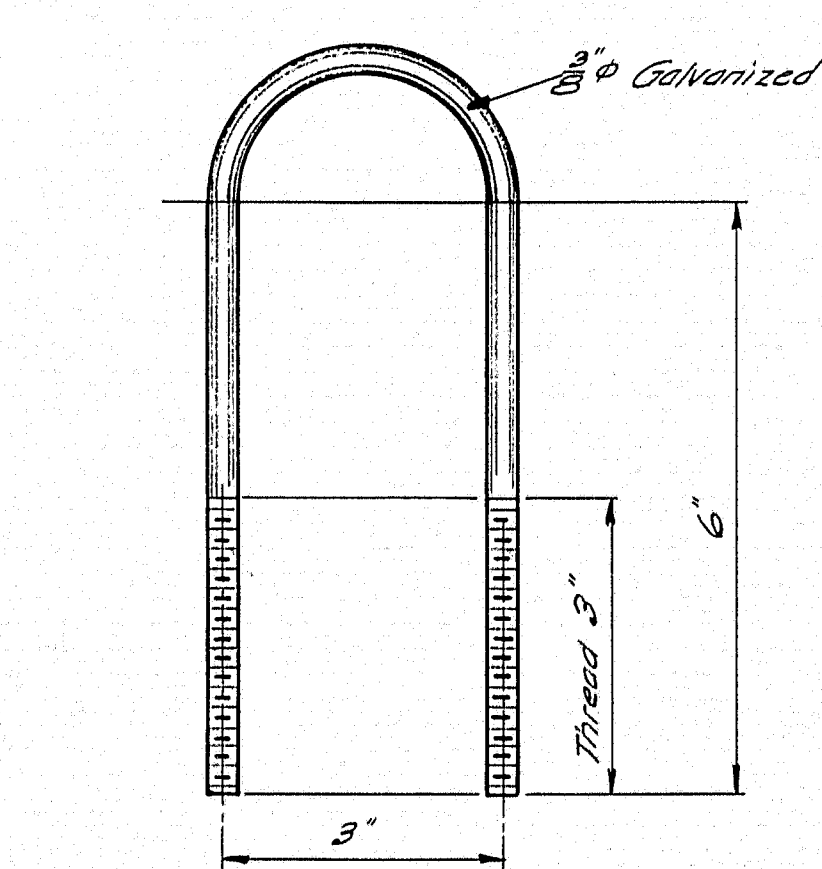
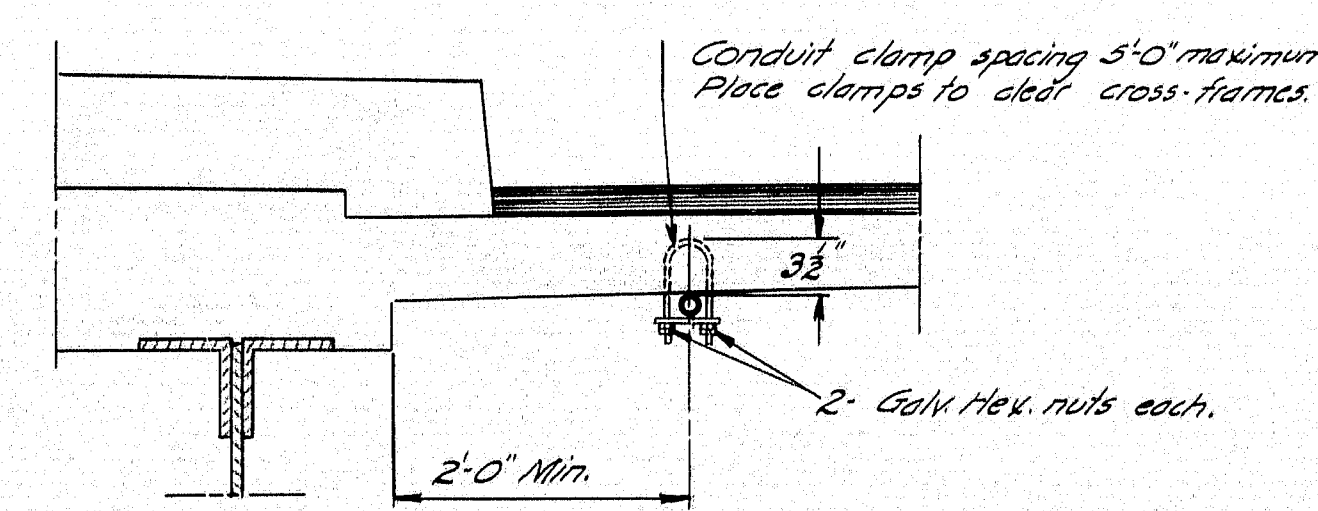
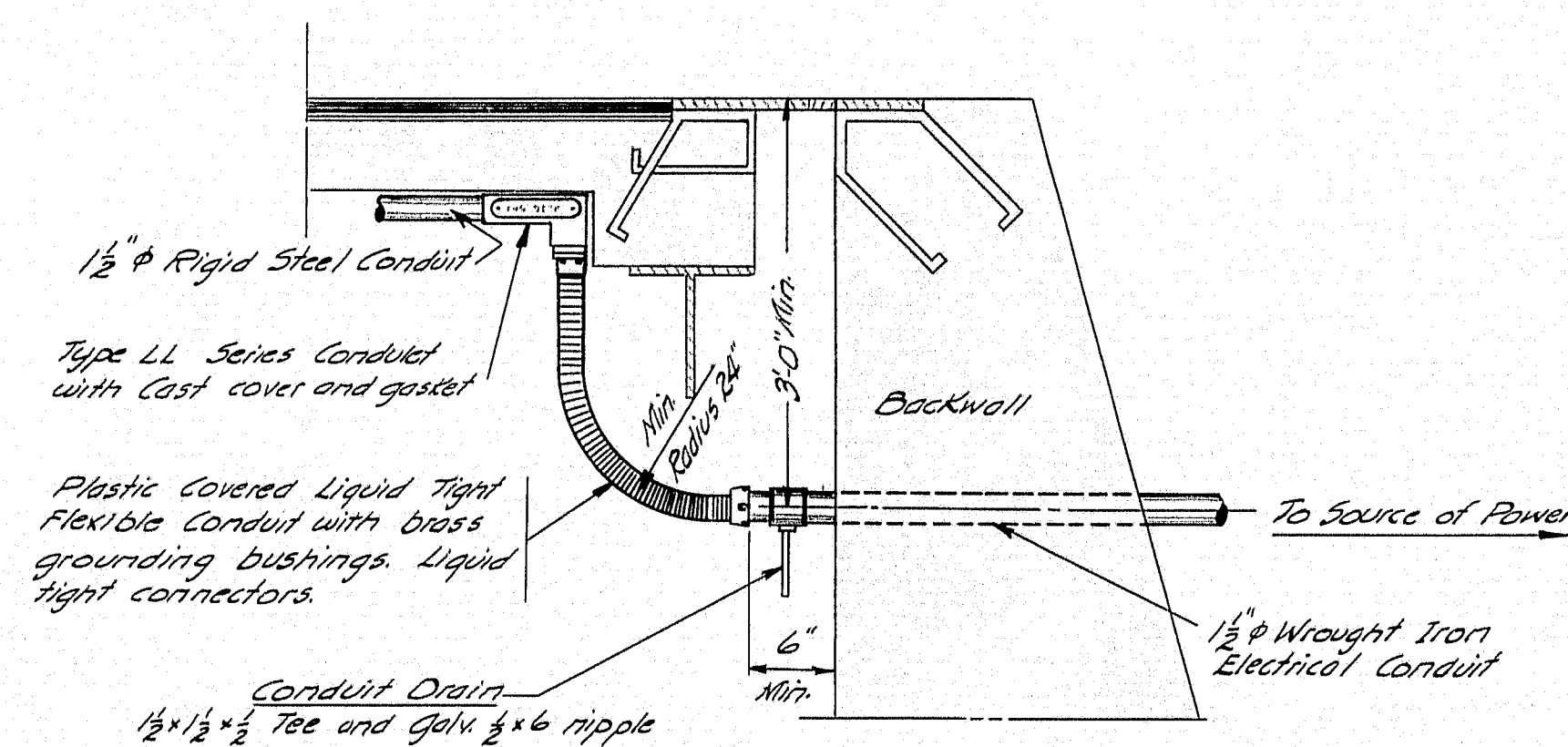
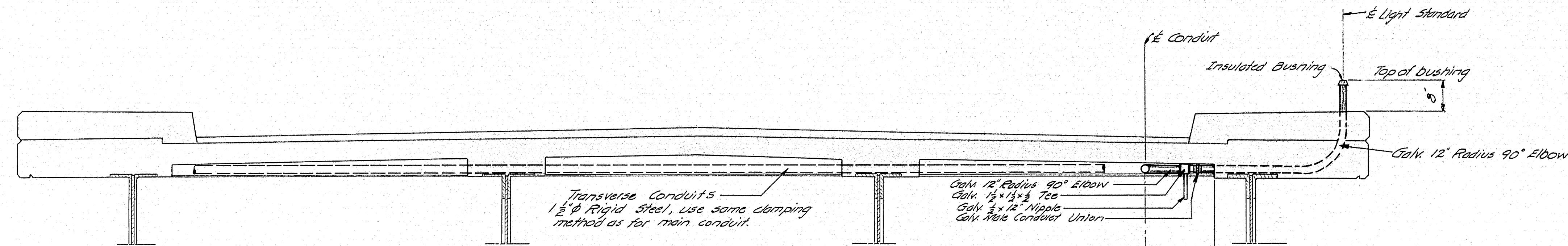
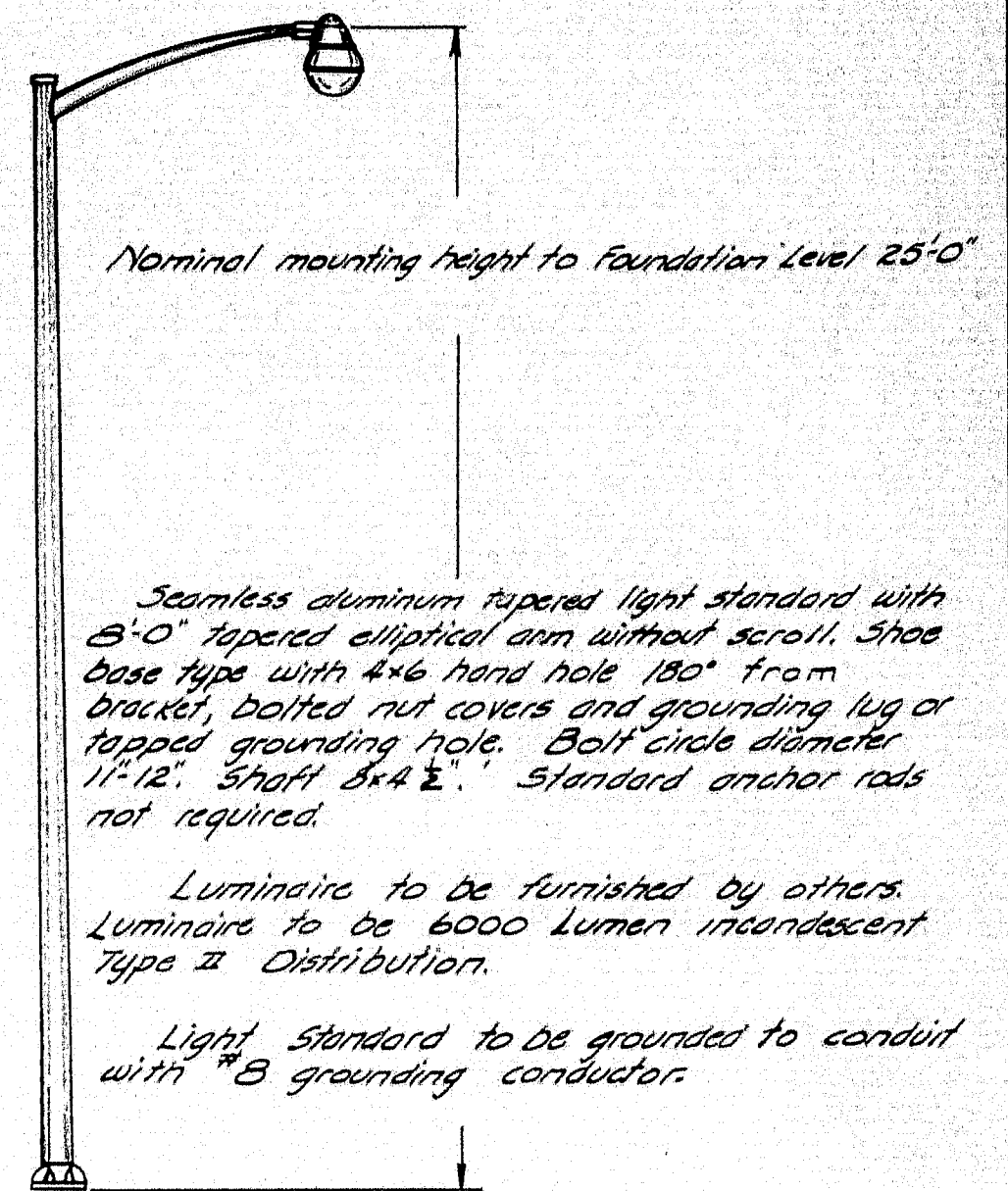
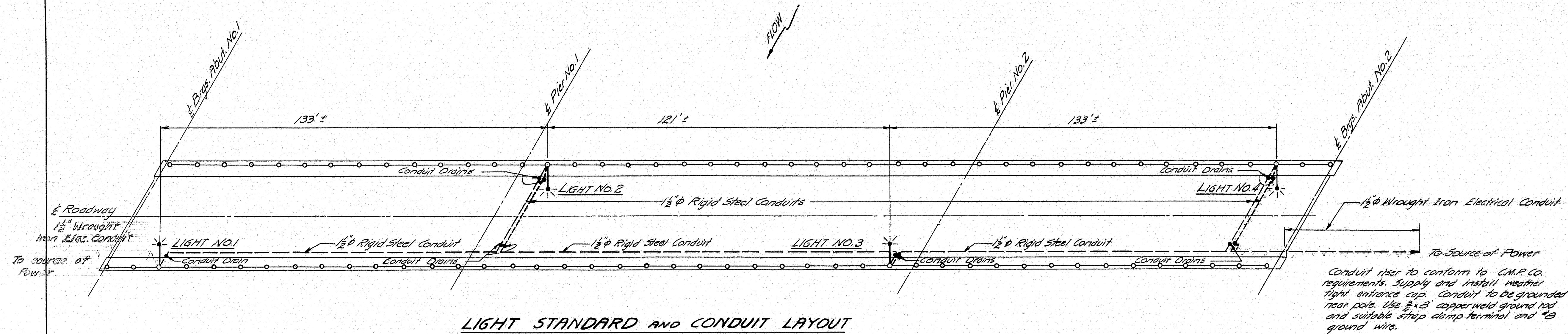
MARK	SIZE	NO.	LENGTH	LOCATION
A2	#5	85	12'-0"	Abut. #1 & Abut. #2
A3	#5	42	9'-6"	do
A4	#6	60	4'-0"	do
A5	#5	44	24'-3"	do
A6	#5	102	3'-0"	do
A7	#5	12	25'-6"	do
A8	#5	4	24'-6"	Abut. #2
K	#6	97	8'-0"	Abut. #1 & Abut. #2
P1	#6	112	5'-0"	Pier #1 & Pier #2
P2	#6	112	18'-3"	do
P3	#6	112	9'-0"	do
P5	#5	52	21'-0"	do
P6	#5	24	21'-9"	do
P7	#5	12	22'-0"	do
P8	#5	12	23'-0"	do
P9	#5	12	24'-0"	do
F1	#6	736	37'-8"	Superstructure Slab
F3	#6	4	37'-4"	do
F4	#6	4	36'-5"	do
F5	#6	4	35'-6"	do
F6	#6	4	34'-7"	do
F7	#6	4	33'-8"	do
F8	#6	4	32'-10"	do
F9	#6	4	31'-2"	do
F10	#6	4	30'-3"	do
F11	#6	4	29'-4"	do
F12	#6	4	28'-5"	do
F13	#6	4	27'-6"	do
F14	#6	4	26'-7"	do
F15	#6	4	25'-9"	do
F16	#6	4	24'-10"	do
F17	#6	4	23'-11"	do
F18	#6	4	23'-0"	do
F19	#6	4	22'-11"	do
F20	#6	4	21'-3"	do
F21	#6	4	20'-4"	do
F22	#6	4	19'-5"	do
F23	#6	4	18'-6"	do
F24	#6	4	17'-7"	do
F25	#6	4	16'-8"	do
F26	#6	4	15'-10"	do
F27	#6	4	14'-11"	do
F28	#6	4	14'-0"	do
F29	#6	4	13'-1"	do
F30	#6	4	12'-2"	do
F31	#6	4	11'-4"	do
F32	#6	4	10'-5"	do
F33	#6	4	9'-6"	do
F34	#6	4	8'-7"	do
F35	#6	4	7'-8"	do
F36	#6	4	6'-9"	do
F37	#6	4	5'-10"	do
F38	#6	20	5'-0"	do
F39	#4	66	14'-8"	do
F40	#4	660	40'-0"	do
F41	#4	52	42'-0"	do
SW2	#4	72	40'-0"	Superstructure Sidewalk
SW3	#4	16	9'-0"	do
SW4	#4	8	37'-8"	do
S1	#5	36	29'-8"	Approach Slab
S2	#7	204	14'-8"	do
HW1	#4	2	10'-6"	Headwall Sta. 412+59±
T1	#4	16	4'-9"	I.P.Co. Tower Encasement



PLAN
APPROACH LIGHTING
LIVERMORE
Lighting by others

Final placement lighting both
approaches: see cross sections

DESIGN - A.H.R.	DETAIL - A.H.R.	BRIDGE NO.
TRACE - H. ALLEN		
CHECK - 7737		
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
ANDROSCOGGIN RIVER BRIDGE		
BETWEEN THE TOWNS OF		
LIVERMORE - LIVERMORE FALLS		
ANDROSCOGGIN COUNTY		
REINFORCING STEEL		
SHEET 41 OF 45	AUGUSTA, MAINE	MARCH 1958



Note: Furnish anchor bolt with Hex. nut, flat washer and lockwasher. All hardware to be double hot dipped galvanized.

GENERAL NOTES

All conduit and fittings shall be belted by the Underwriters Laboratories, Inc.

All conduit shall be galvanized and all threads to be leaded.

All underground conduit shall be Wrought Iron Electrical Conduit. Exposed conduit and conduit encased in superstructure concrete shall be galvanized rigid steel conduit.

A No. 12 gauge galvanized steel pull wire shall be installed in the conduits and light standards. Permanent wires will be supplied and installed by others.

Conduit lines shall be cleaned and free from obstructions before installation of pull wires. Conduit terminations shall be capped until such time as permanent wires are installed.

Light standards are to be erected plumb.

Template for positioning anchor bolts to be furnished by those furnishing Light Standards.

See sheet 40 for general information regarding positioning of anchor bolts.

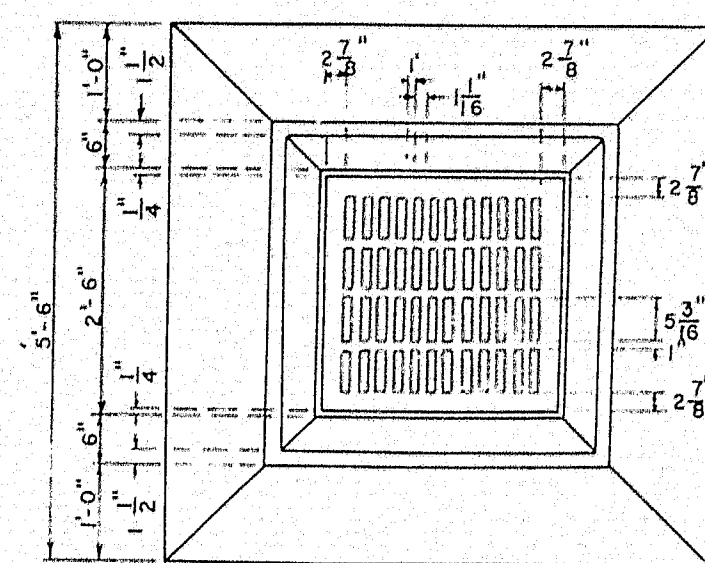
Conduit terminations to be sealed with a non-hardening plastic sealing compound.

Approach lighting will be done by others.

DESIGN - MURRELL TRACE - MURRELL CHECK - MURPHY	BRIDGE NO.
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ANDROSCOGGIN RIVER BRIDGE	
BETWEEN THE TOWNS OF LIVERMORE - LIVERMORE FALLS	
ANDROSCOGGIN COUNTY	
LIGHTING DETAILS (STRUCTURE)	
SHEET 42 OF 45 AUGUSTA, MAINE JAN. 1958	

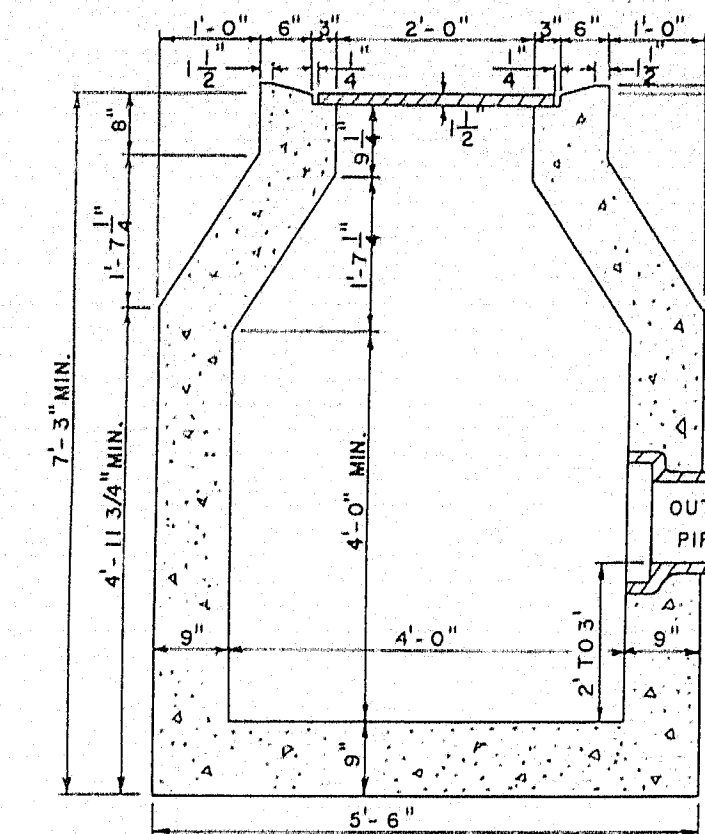
CATCH BASIN

TYPE "A"



TRAPS SIMILAR TO THOSE SHOWN FOR TYPE "B" CATCH BASIN SHALL BE USED IF ORDERED.

GRATE 20" X 20" X 1/2"



VARIABLE, DEPENDS ON LOCAL CONDITIONS.

TO BE PLASTERED WITH CEMENT MORTAR.

CONCRETE

OUTLET PIPE

CONCRETE BASE

CONCRETE CAP

TO BE CONSTRUCTED OF PORTLAND CEMENT BLOCKS, BRICK OR STONE MASONRY.

CONCRETE

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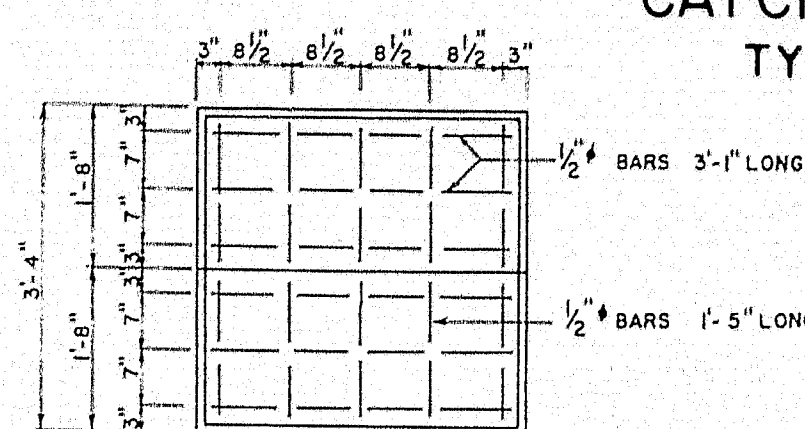
CONCRETE

CONCRETE

CONCRETE

CATCH BASIN

TYPE "D"



DIAMETER DEPTH

3'0" 7"

3'6" 10"

3'0" 13"

3'6" 16"

3'0" 19"

3'6" 22"

3'0" 25"

3'6" 28"

3'0" 31"

3'6" 34"

3'0" 37"

3'6" 40"

3'0" 43"

3'6" 46"

3'0" 49"

3'6" 52"

3'0" 55"

3'6" 58"

3'0" 61"

3'6" 64"

3'0" 67"

3'6" 70"

3'0" 73"

3'6" 76"

3'0" 79"

3'6" 82"

3'0" 85"

3'6" 88"

3'0" 91"

3'6" 94"

3'0" 97"

3'6" 100"

3'0" 103"

3'6" 106"

3'0" 109"

3'6" 112"

3'0" 115"

3'6" 118"

3'0" 121"

3'6" 124"

3'0" 127"

3'6" 130"

DROP INLET

TYPE B

TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE

DIAMETER DEPTH

3'0" 7"

3'6" 10"

3'0" 13"

3'6" 16"

3'0" 19"

3'6" 22"

3'0" 25"

3'6" 28"

3'0" 31"

3'6" 34"

3'0" 37"

3'6" 40"

3'0" 43"

3'6" 46"

3'0" 49"

3'6" 52"

3'0" 55"

3'6" 58"

3'0" 61"

3'6" 64"

3'0" 67"

3'6" 70"

3'0" 73"

3'6" 76"

3'0" 79"

3'6" 82"

3'0" 85"

3'6" 88"

3'0" 91"

3'6" 94"

3'0" 97"

3'6" 100"

3'0" 103"

3'6" 106"

3'0" 109"

3'6" 112"

3'0" 115"

3'6" 118"

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3'6" 124"

3'0" 127"

3'6" 130"

3'0" 133"

3'6" 136"

3'0" 139"

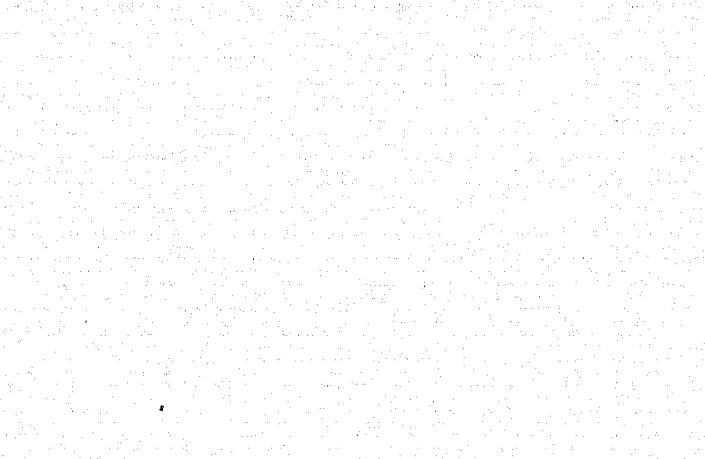
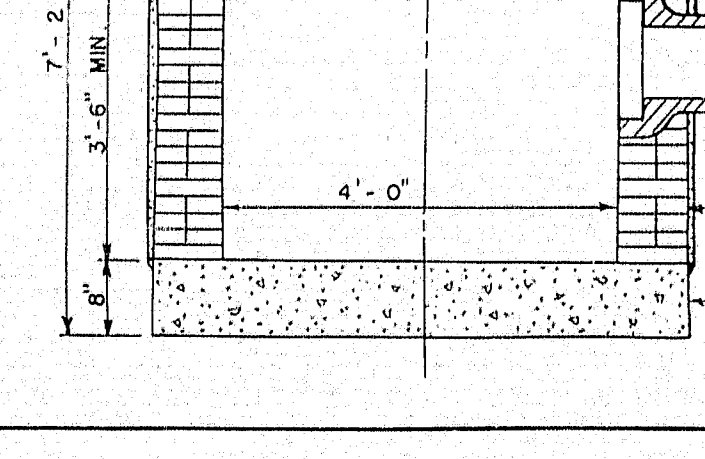
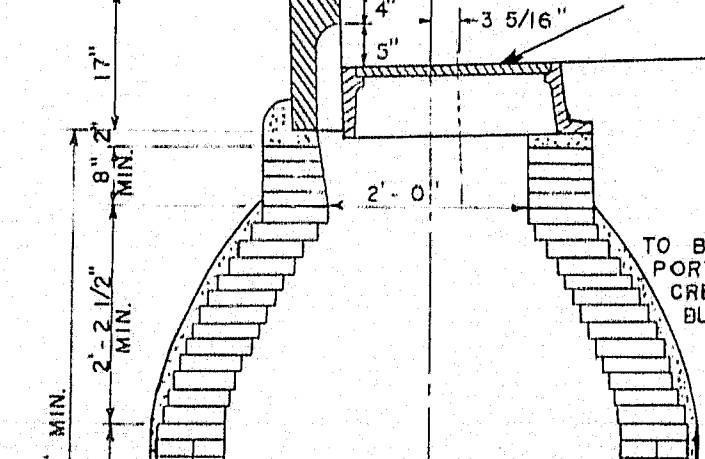
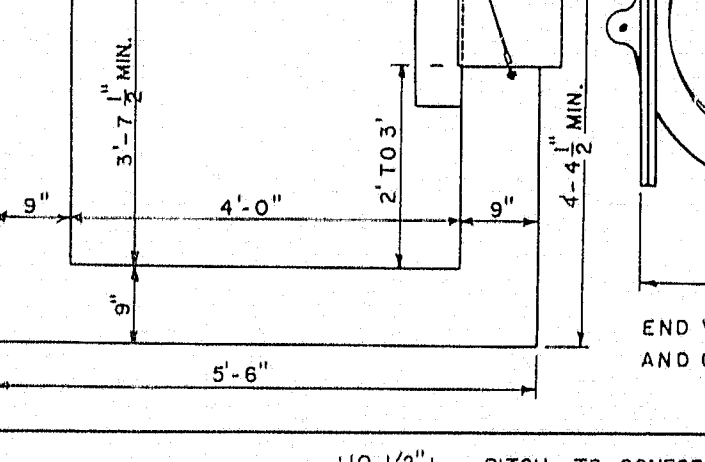
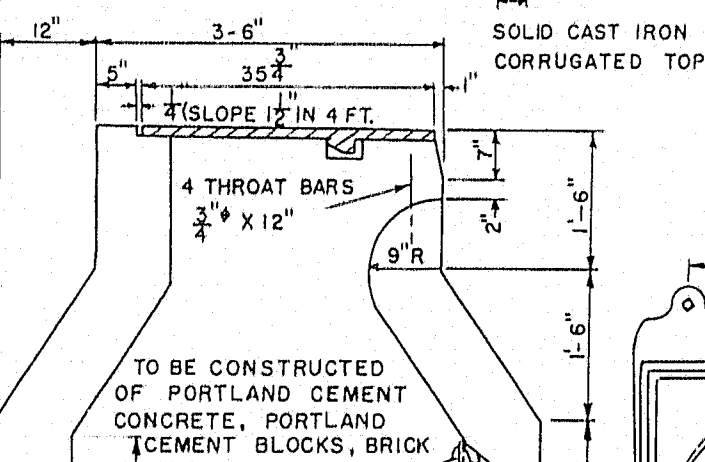
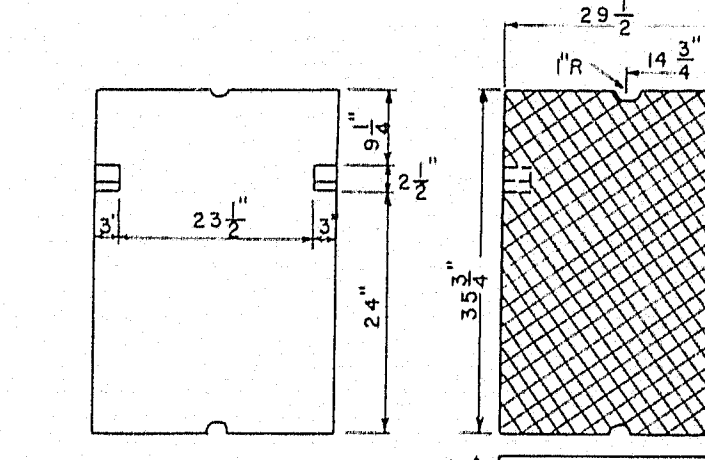
CATCH BASIN

TYPE "B"

DETAIL OF TRAP

TO BE USED WITH COMBINED SYSTEM.

OTHER TYPES MAY BE USED IF APPROVED BY THE ENGINEER.



TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, PORTLAND CEMENT BLOCKS, BRICK OR STONE MASONRY.

TO BE PLASTERED WITH CEMENT MORTAR.

CONCRETE

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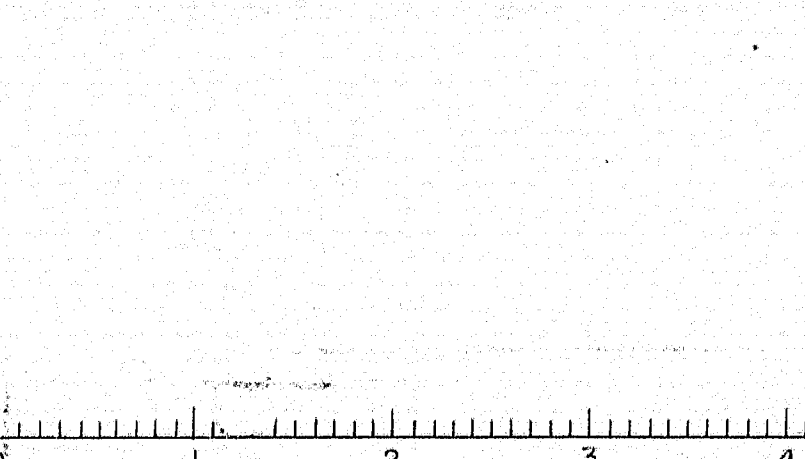
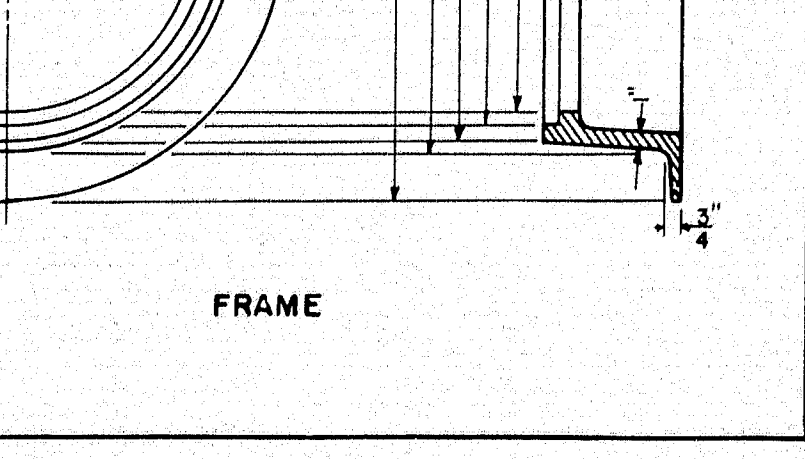
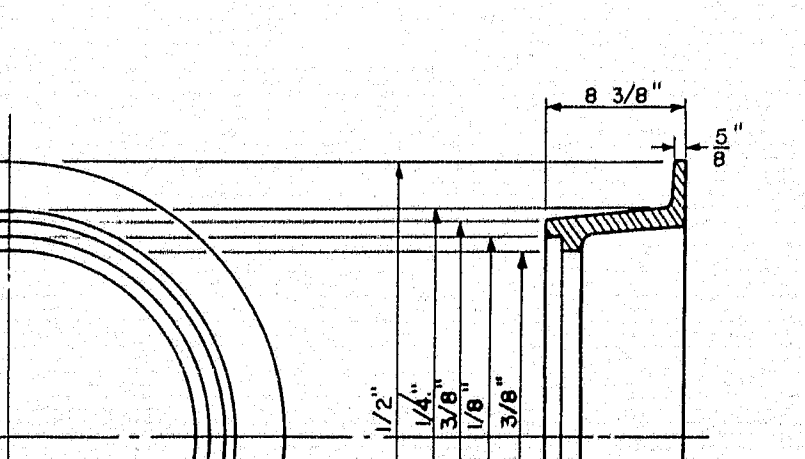
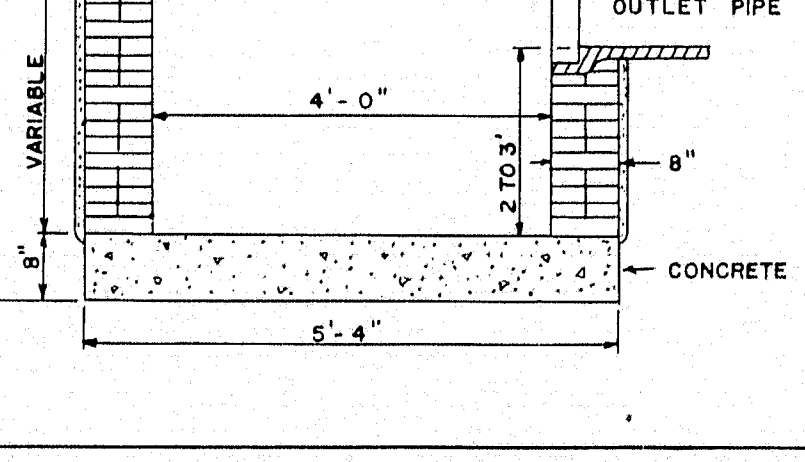
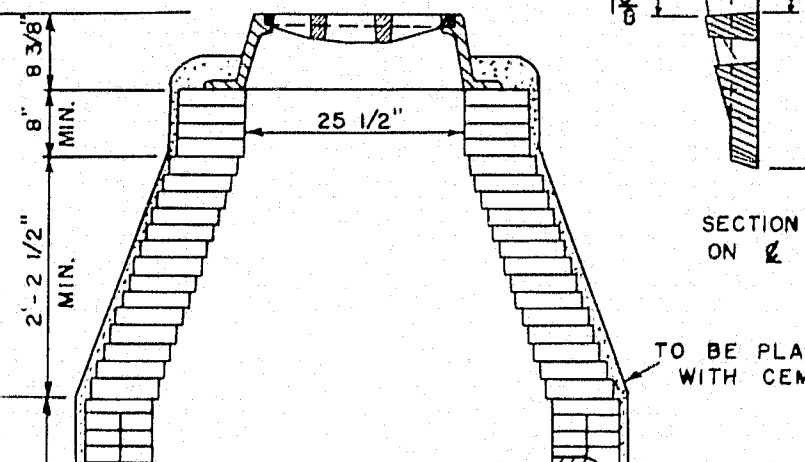
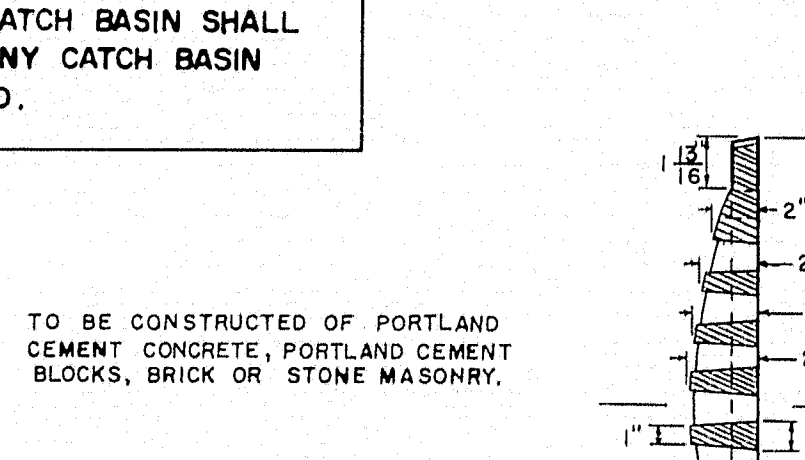
CONCRETE

NOTE

TRAPS SIMILAR TO THOSE SHOWN FOR TYPE "B" CATCH BASIN SHALL BE USED FOR ANY CATCH BASIN WHEN REQUIRED.

CATCH BASIN

TYPE "E"



TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, PORTLAND CEMENT BLOCKS, BRICK OR STONE MASONRY.

TO BE PLASTERED WITH CEMENT MORTAR.

CONCRETE

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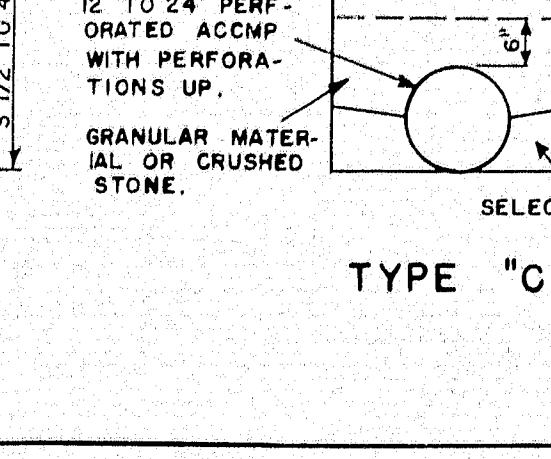
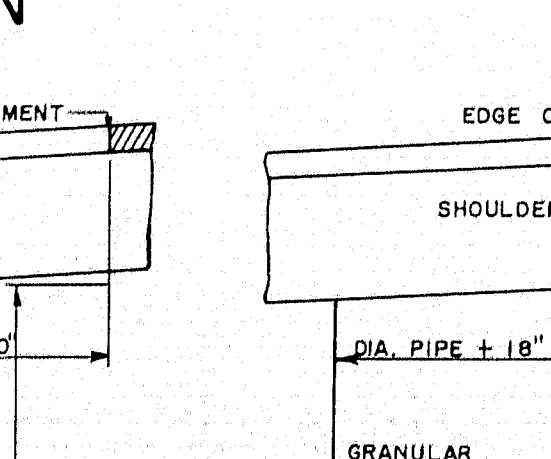
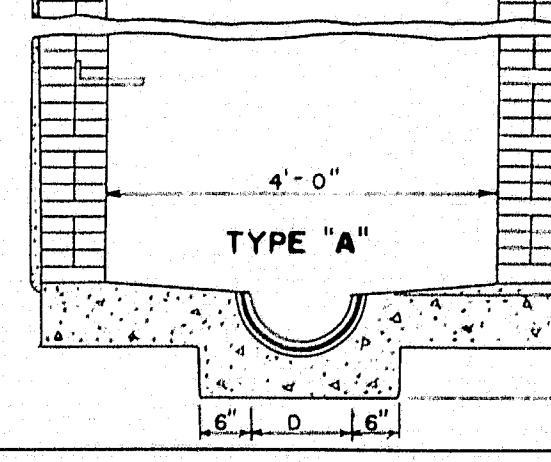
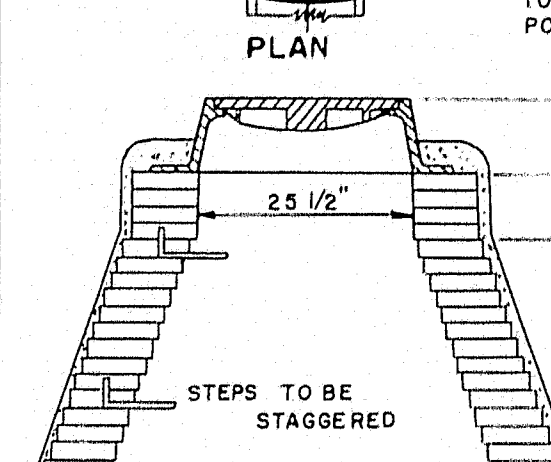
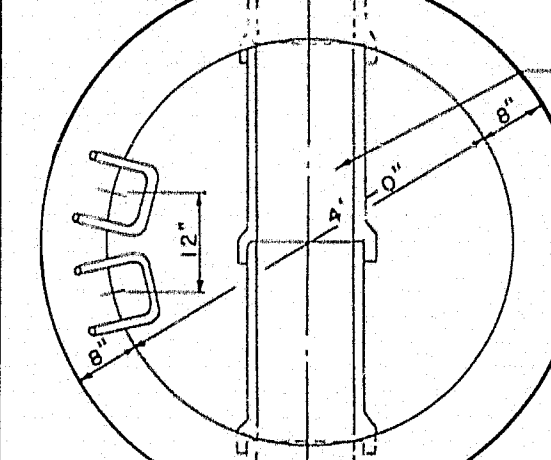
CONCRETE

CONCRETE

CONCRETE

CONCRETE

MANHOLES



TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, PORTLAND CEMENT BLOCKS, BRICK OR STONE MASONRY.

TO BE PLASTERED WITH CEMENT MORTAR.

CONCRETE

CONCRETE

CONCRETE

CONCRETE

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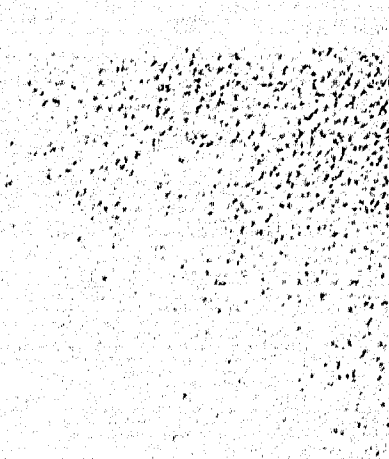
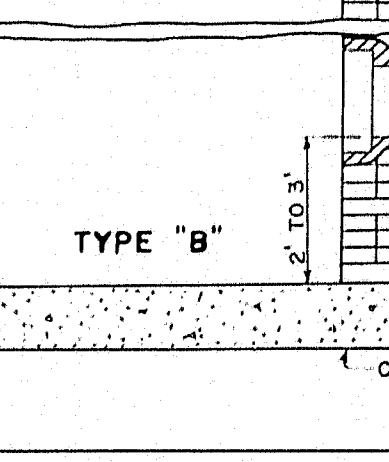
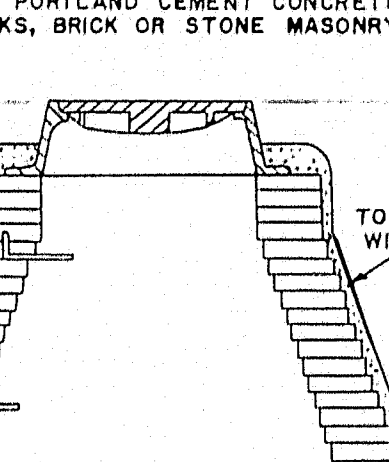
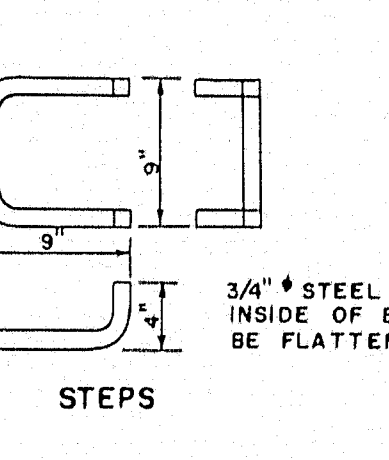
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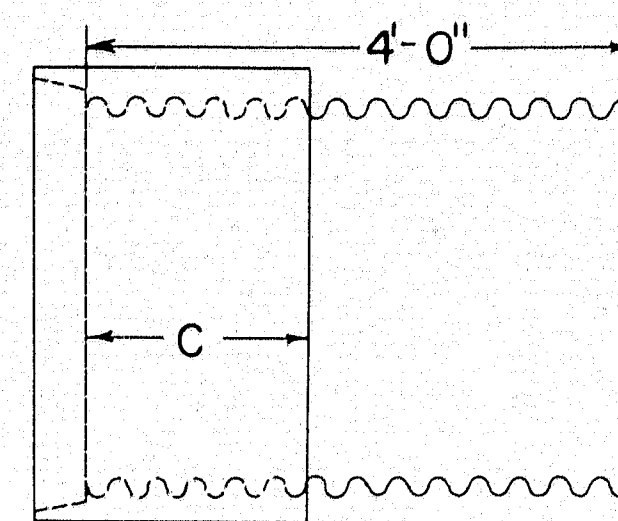
CONCRETE

MANHOLES



TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, PORTLAND CEMENT BLOCKS, BRICK OR STONE MASONRY.

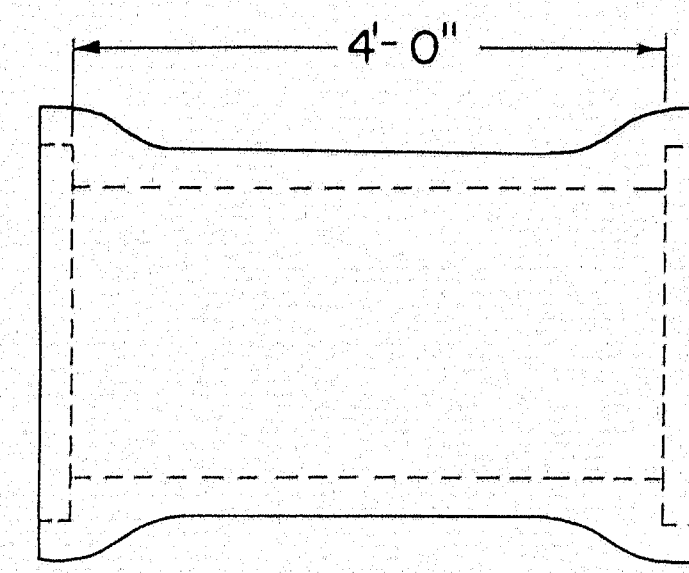
PIPE CONNECTIONS



GROOVE END COMBINATION
For 30" to 72" inclusive, diameter connection
between concrete and metal pipe

"C" = 17" min. for sizes 30" to 48" incl.
"C" = 23" min. for sizes over 48"

Asphalt coated corrugated metal pipe
shall conform to the latest
standard specifications

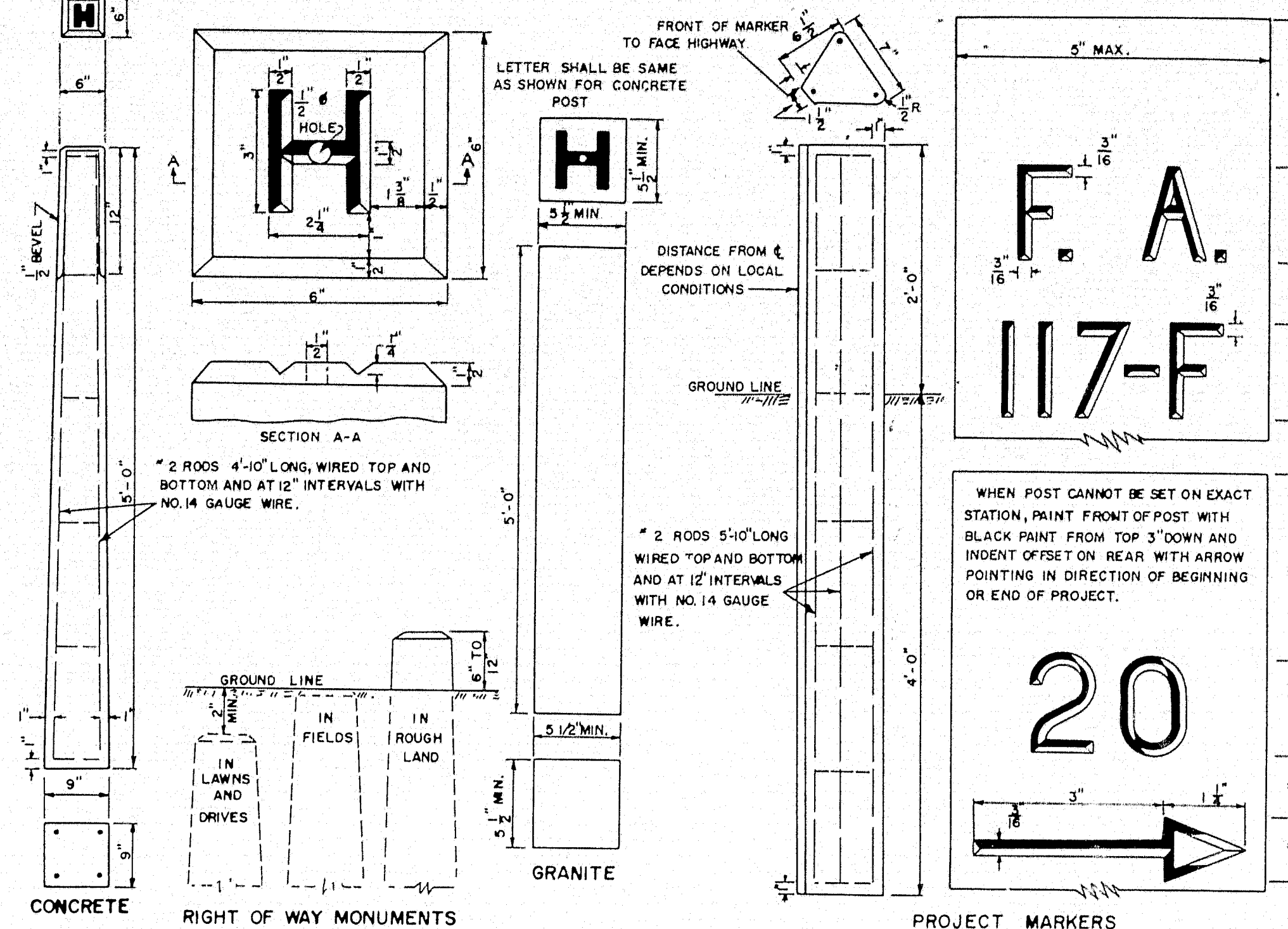


REINFORCED CONCRETE PIPE CONNECTOR
DOUBLE BELL

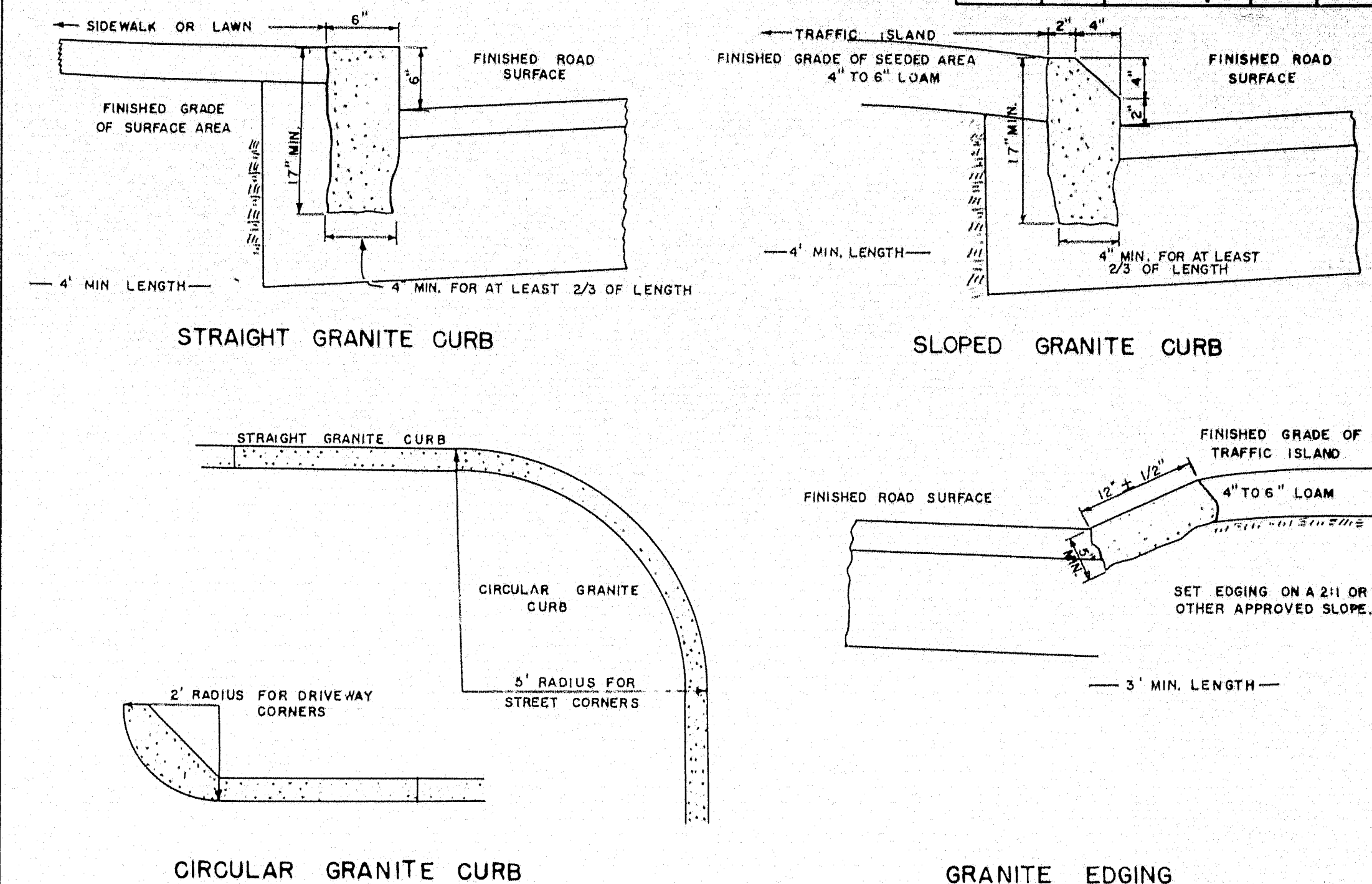
For 12" to 24" inclusive, diameter connection
between concrete and metal pipe

Reinforced concrete pipe shall
conform to the latest standard
specifications

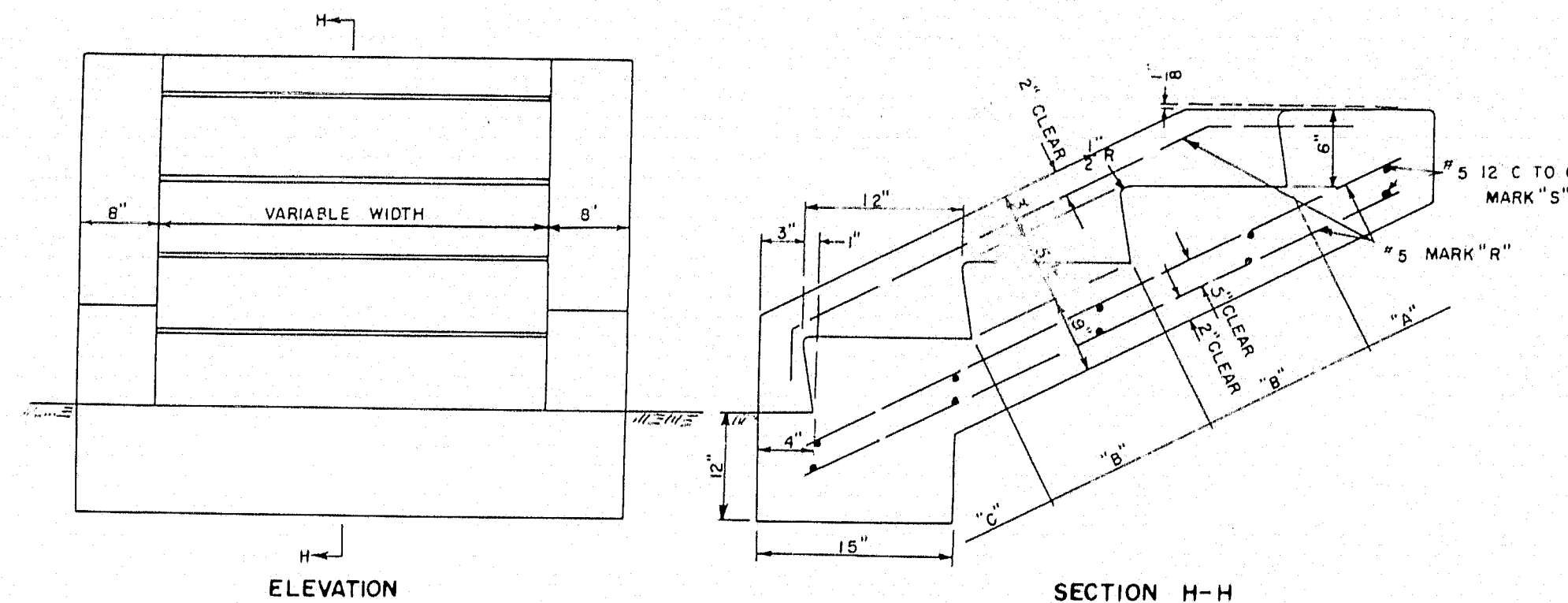
RIGHT OF WAY MONUMENTS & PROJECT MARKERS



GRANITE CURB & EDGING



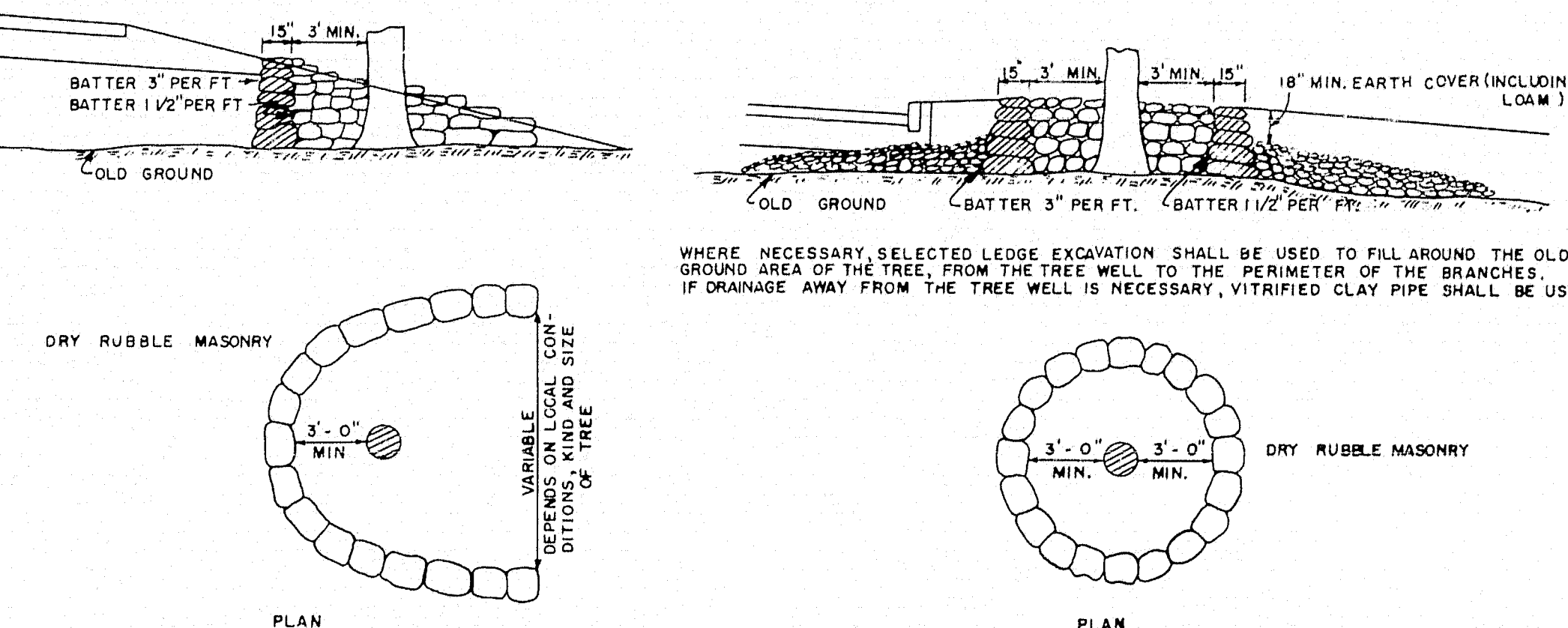
CONCRETE STEPS



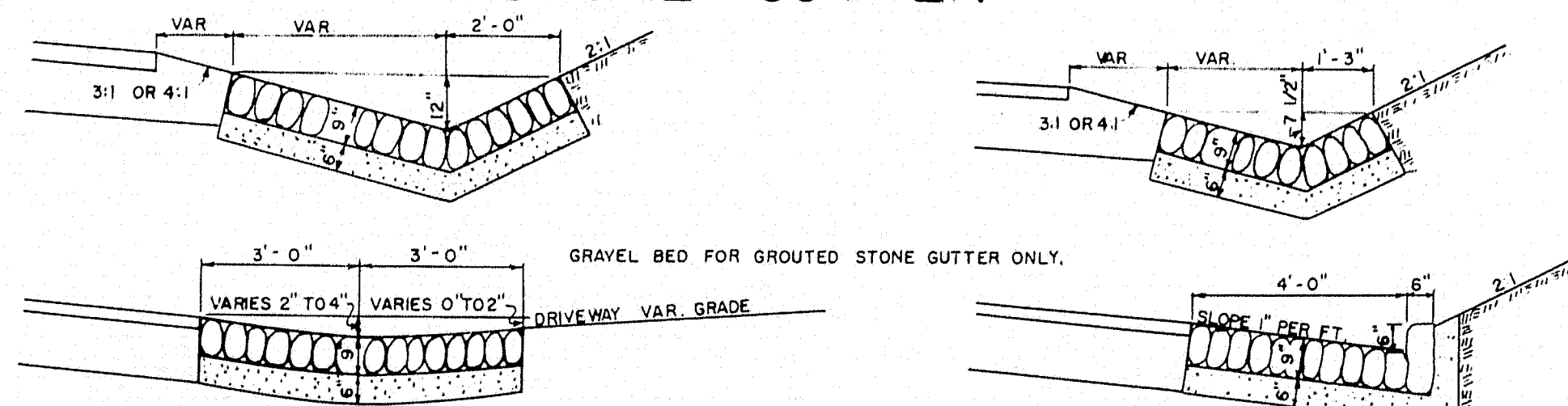
CONCRETE CLASS "A"			
SECTION	STEPS PER FT. OF WIDTH	PARAPET EACH WALL	
"A" HEADER	0.32 CU. YDS.	0.42 CU. YDS.	
"B" EA. INTER ST.	0.40 CU. YDS.	0.40 CU. YDS.	
"C" FOOTER	0.71 CU. YDS.	0.65 CU. YDS.	

REINFORCING STEEL			
MARK	SIZE	NUMBER	LENGTH (EACH)
R	"5	3 EACH PARAPET	8" FOR "A"
	1043 LBS. PER FT.	2 EACH FT. OF WIDTH	+13" FOR EACH "B"
			+16" FOR "C"
S	"5	2 FOR "A"	6" EACH PARAPET
	1043 LBS. PER FT.	2 FOR EACH "B"	+12" PER FT. OF WIDTH
		2 FOR "C"	

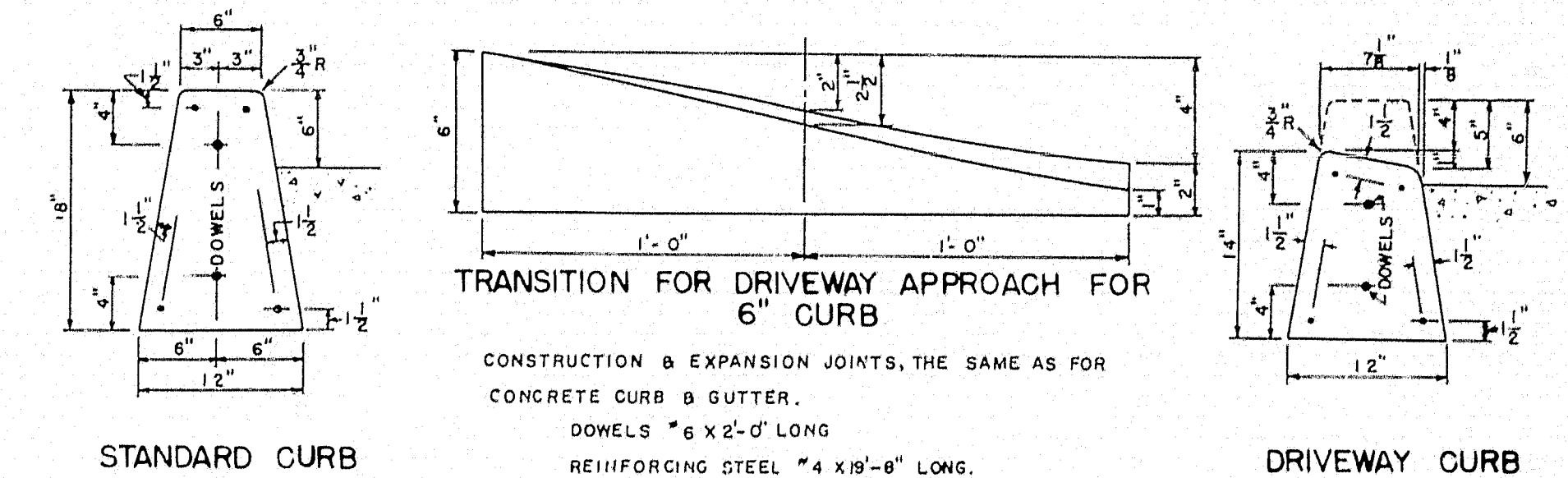
TREE WELLS



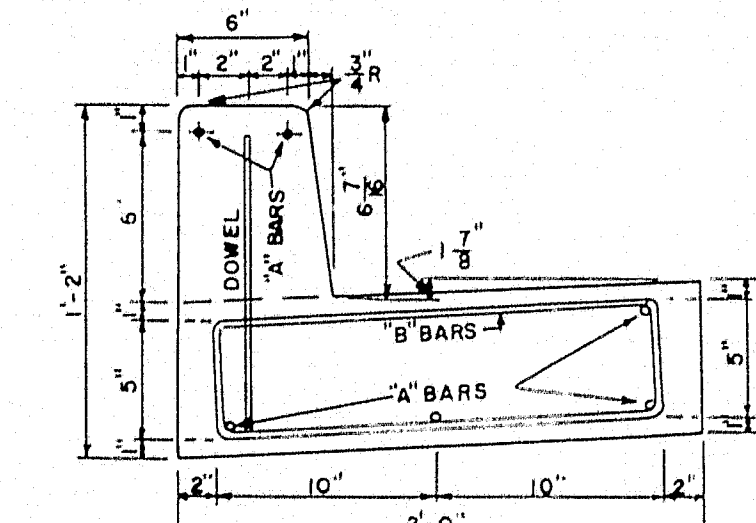
STONE GUTTER



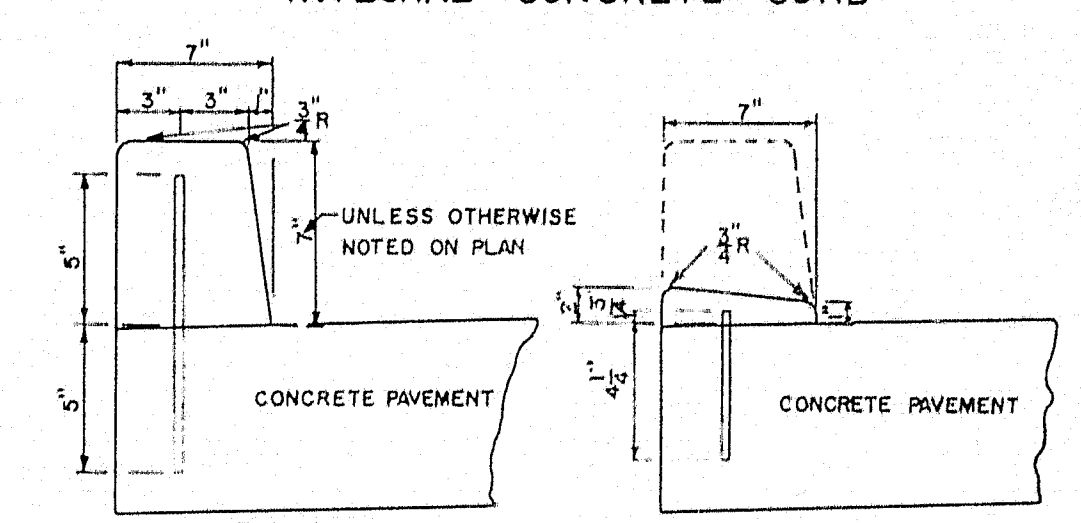
CONCRETE CURB



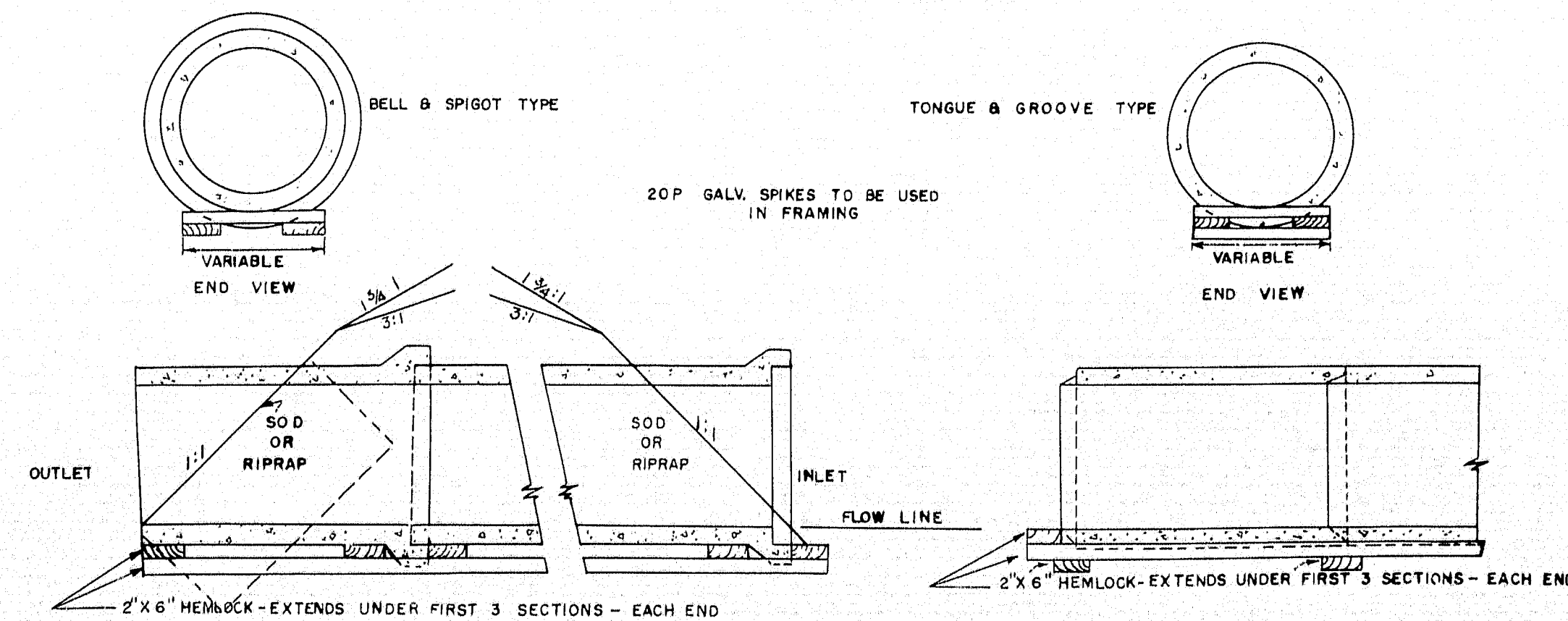
CONCRETE CURB & GUTTER



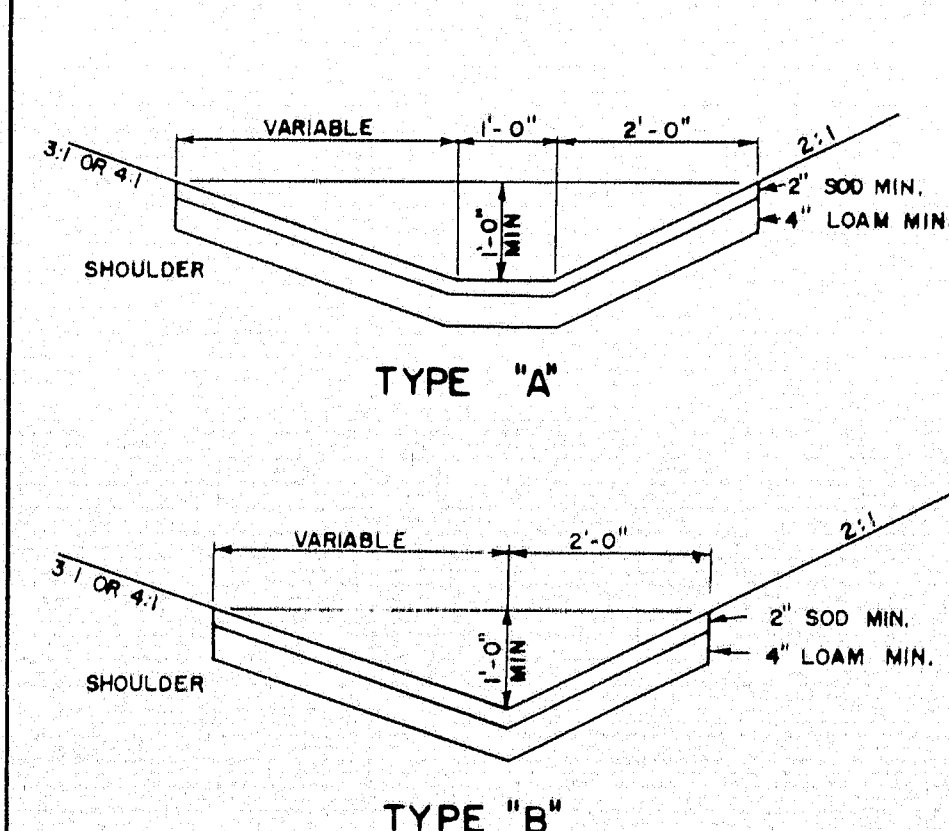
INTEGRAL CONCRETE CURB



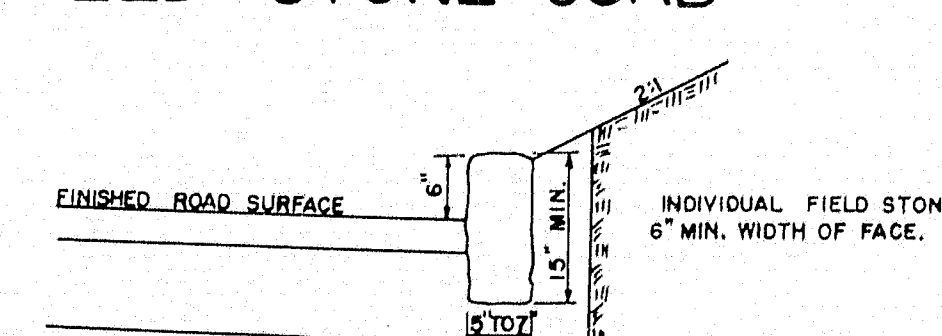
CONCRETE PIPE CRADLE



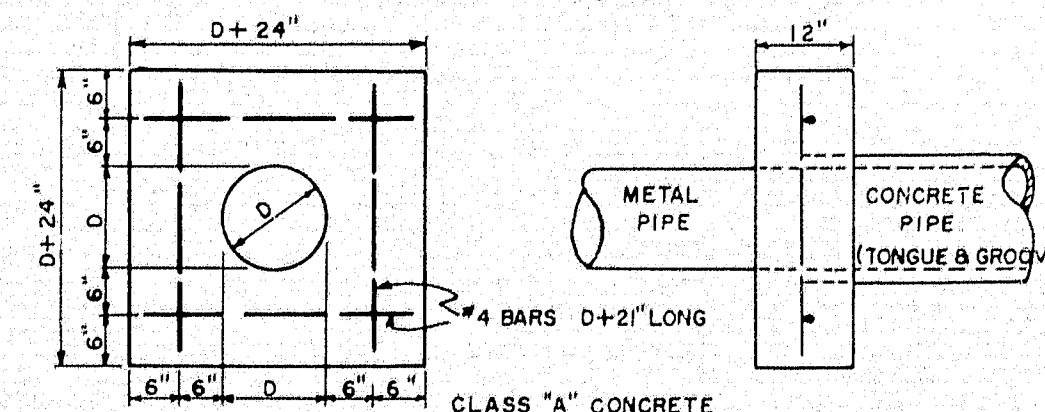
SODDED GUTTER



FIELD STONE CURB



CONCRETE COLLAR



MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS

MISCELLANEOUS ITEMS

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