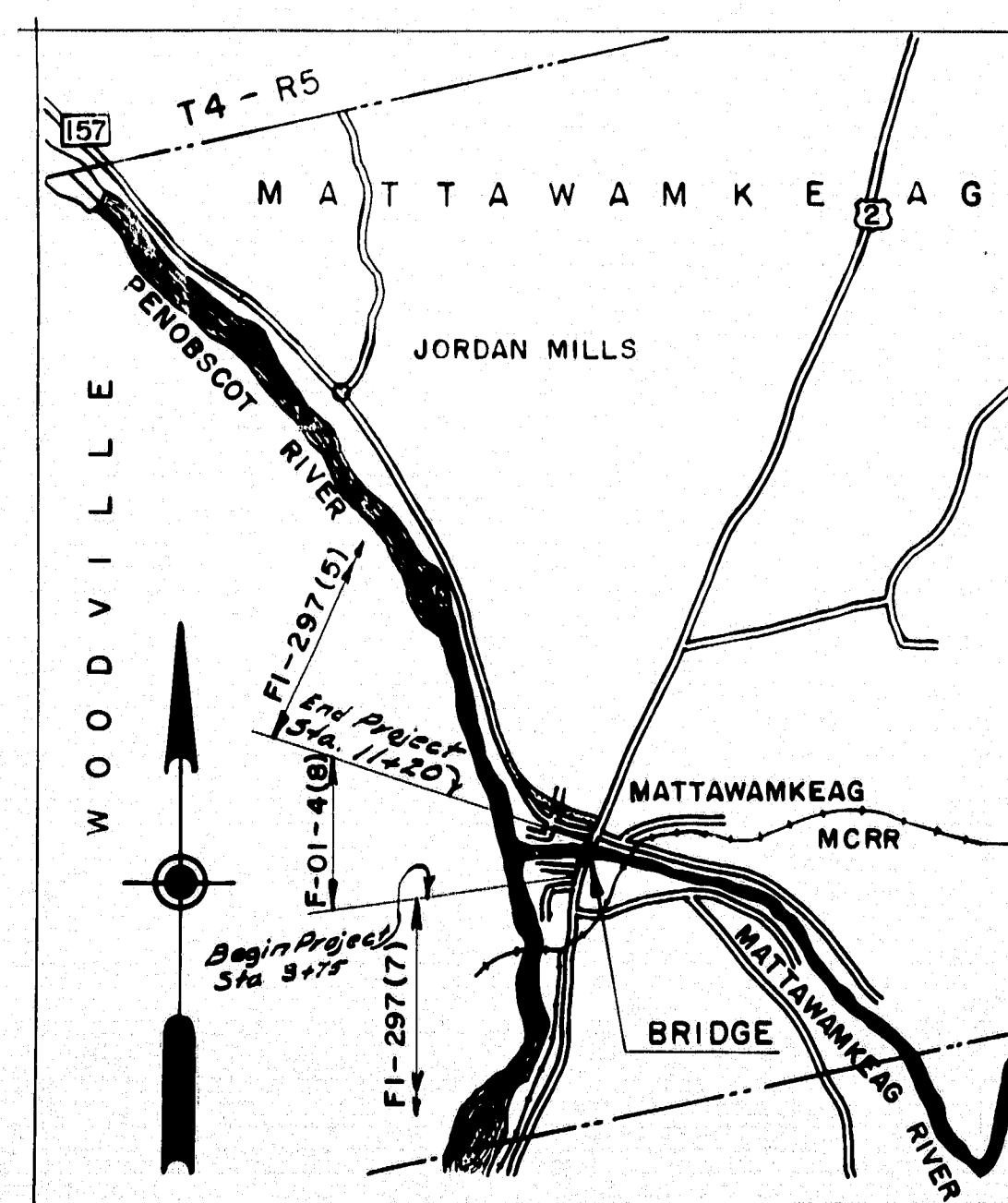


STATE OF MAINE
STATE HIGHWAY COMMISSION



MATTAWAMKEAG BRIDGE
OVER
MATTAWAMKEAG RIVER
IN THE TOWN OF
MATTAWAMKEAG
PENOBSCOT COUNTY

FEDERAL AID PROJECT NO. F-01-4(8)
TOTAL LENGTH OF PROJECT 0.141 MILES



LOCATION MAP
APPROX. SCALE 1" = 1 MILE

INDEX OF SHEETS

- 1 --- TITLE SHEET
- 2 --- SURVEY
- 3 --- GENERAL PLAN
- 4 --- PLAN - SOUTH APPROACH
- 5 --- CROSS SECTIONS - SOUTH APPROACH
- 6 --- TYPICAL SECTION & PROFILES, NORTH APPROACH
- 7 --- CROSS SECTIONS - NORTH APPROACH
- 8 --- ABUTMENT NO. 1
- 9 --- PIERS & EXPANSION BEARINGS
- 10 --- ABUTMENT NO. 2
- 11 --- SUPERSTRUCTURE
- 12 --- SUPERSTRUCTURE DETAILS
- 13 --- REINFORCING STEEL & APPROACH SLAB
- 14 --- LIGHTING DETAILS & ESTIMATE OF QUANTITIES
- 15-16 --- STANDARD DETAILS

TRAFFIC

A.D.T. 1962	3600
A.D.T. 1982	5040
D.H.V.	756
T	14 %
D	60 %
V	30 m.p.h.

APPROVED:
MAINE STATE HIGHWAY COMMISSION
Don P. Hines CHAIRMAN

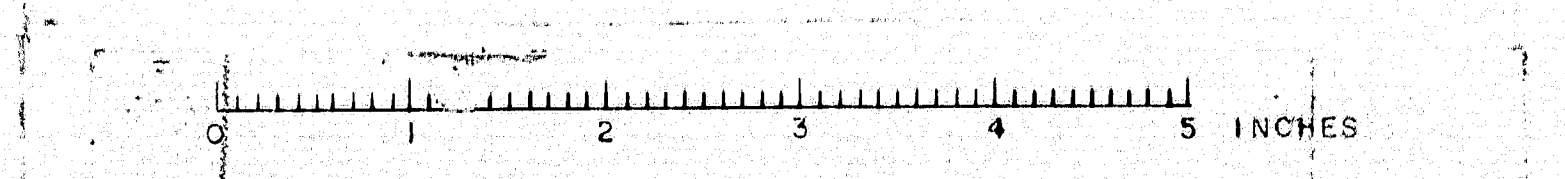
Chas. Wilcox
Chas. Wilcox CHIEF ENGINEER

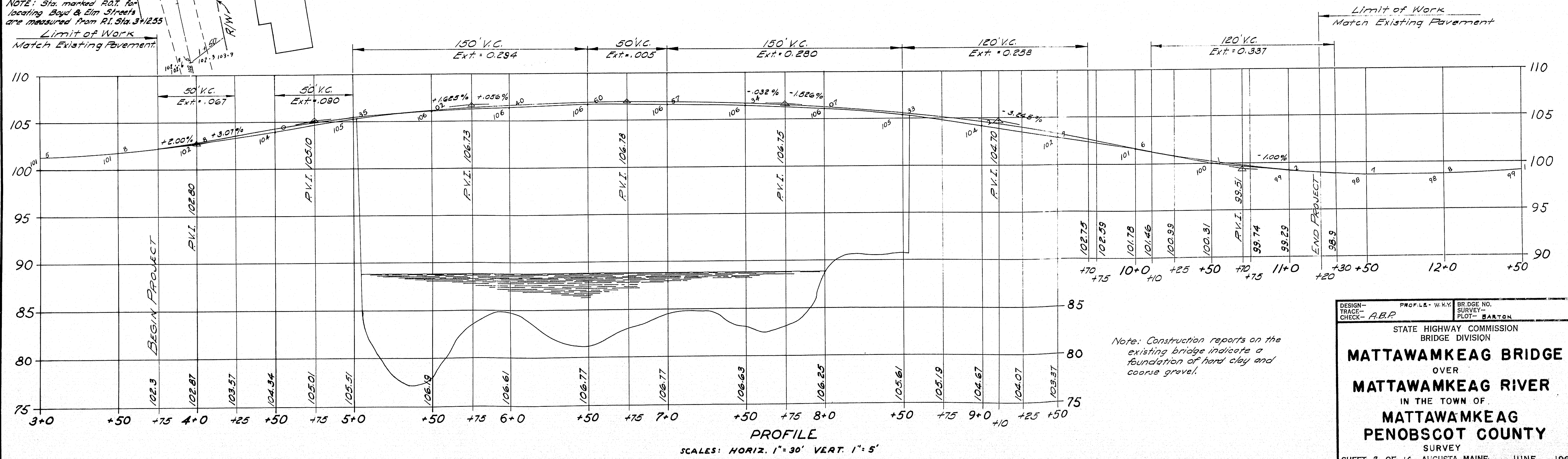
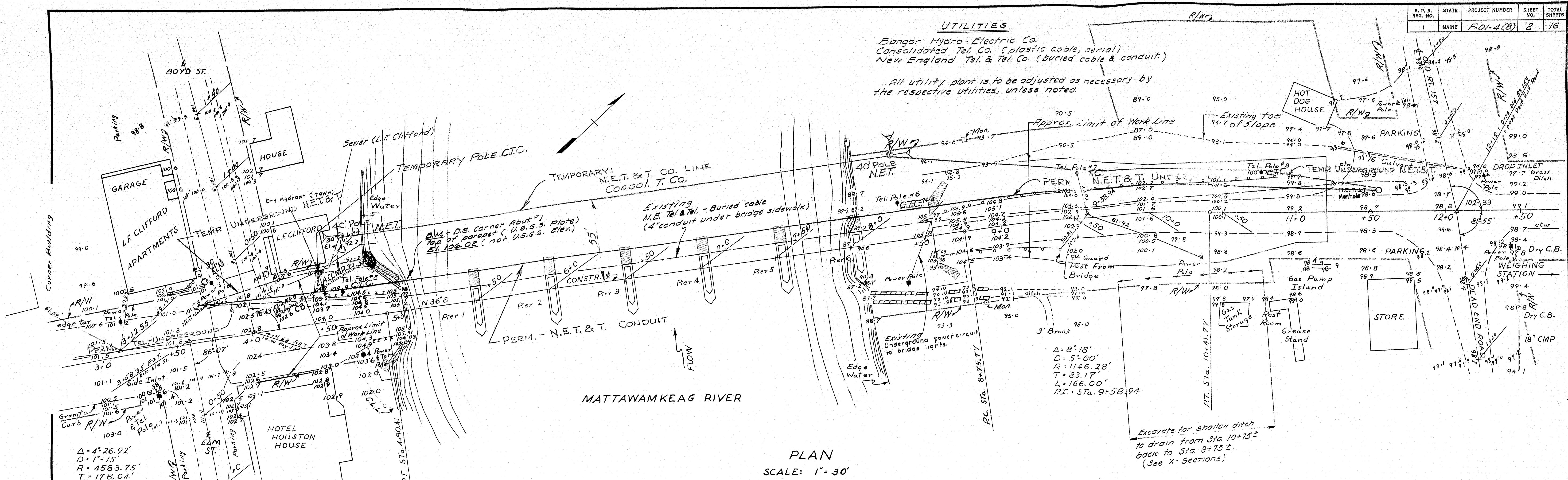
FEB 28 1967
DATE

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
REGION I
APPROVED:

DISTRICT ENGINEER

DATE





DESIGN-
TRACE-
CHECK- A.B.P.

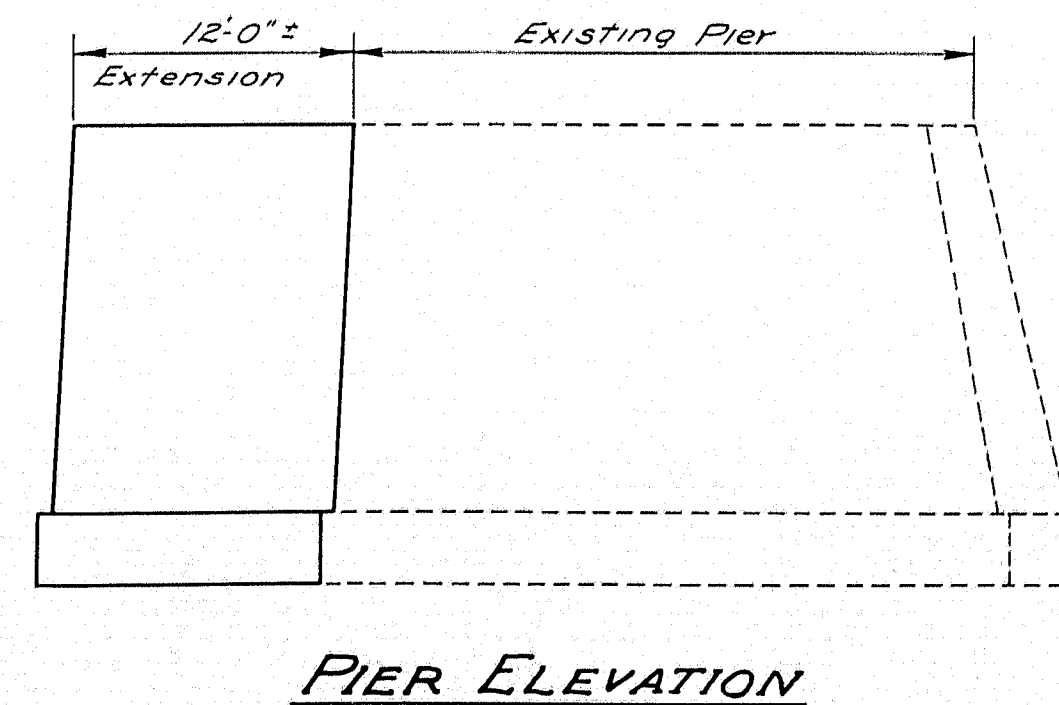
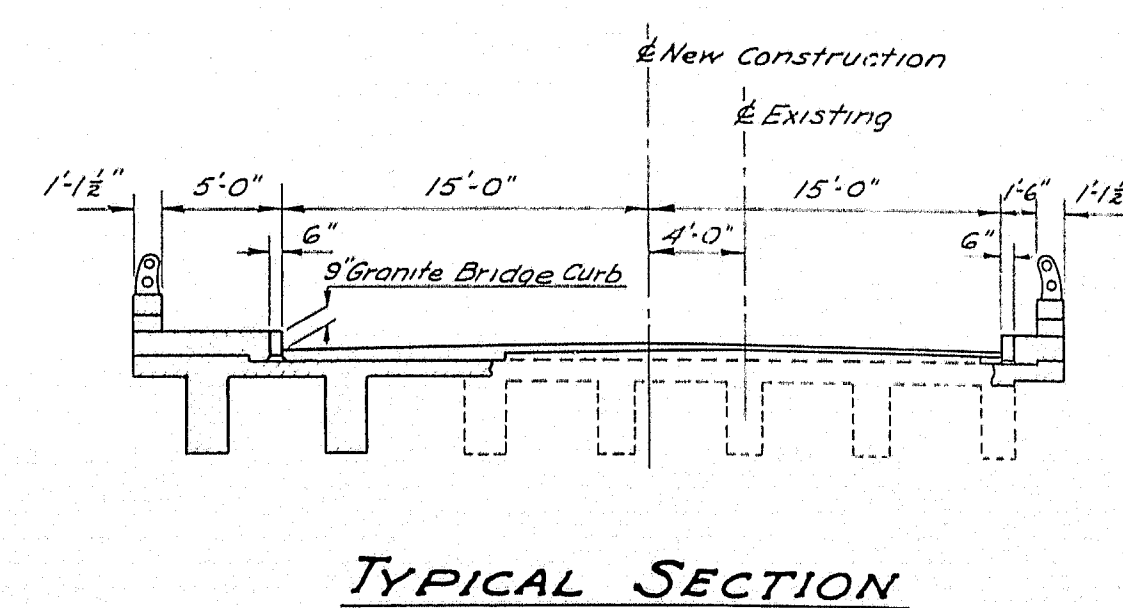
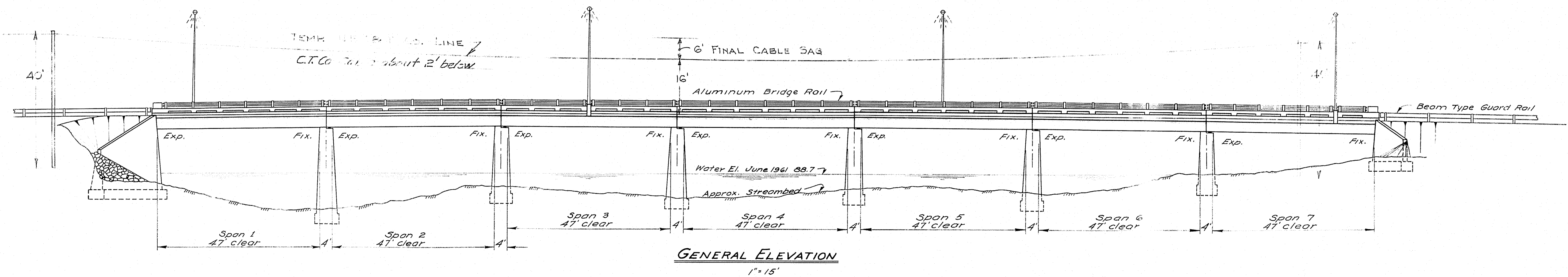
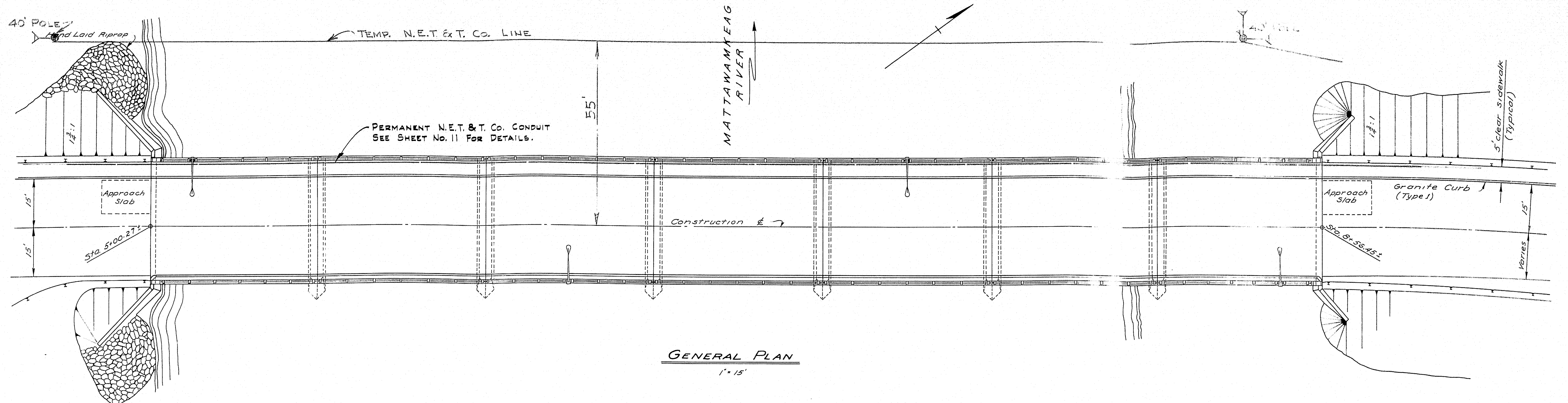
PROFILE- W.H.Y.
BRIDGE NO.
SURVEY-
PLOT- BARTON

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

MATTAWAMKEAG BRIDGE
OVER
MATTAWAMKEAG RIVER
IN THE TOWN OF
MATTAWAMKEAG
PENOBSCOT COUNTY

SURVEY
SHEET 2 OF 16 AUGUSTA, MAINE JUNE 1961

Note: Construction reports on the existing bridge indicate a foundation of hard clay and coarse gravel.



DESIGN SPECIFICATIONS
A.A.S.H.O. Standard Specifications for
Highways and Bridges 1957.

Loading H20-S16-44
 $f_c = 20,000 \text{ p.s.i.}$
 $f_s = 1,200 \text{ p.s.i.}$
 $r = 10$

CONTRACT SPECIFICATIONS

State of Maine State Highway Commission
Standard Specifications, Revision of
January 1956, and 1960 Supplement.

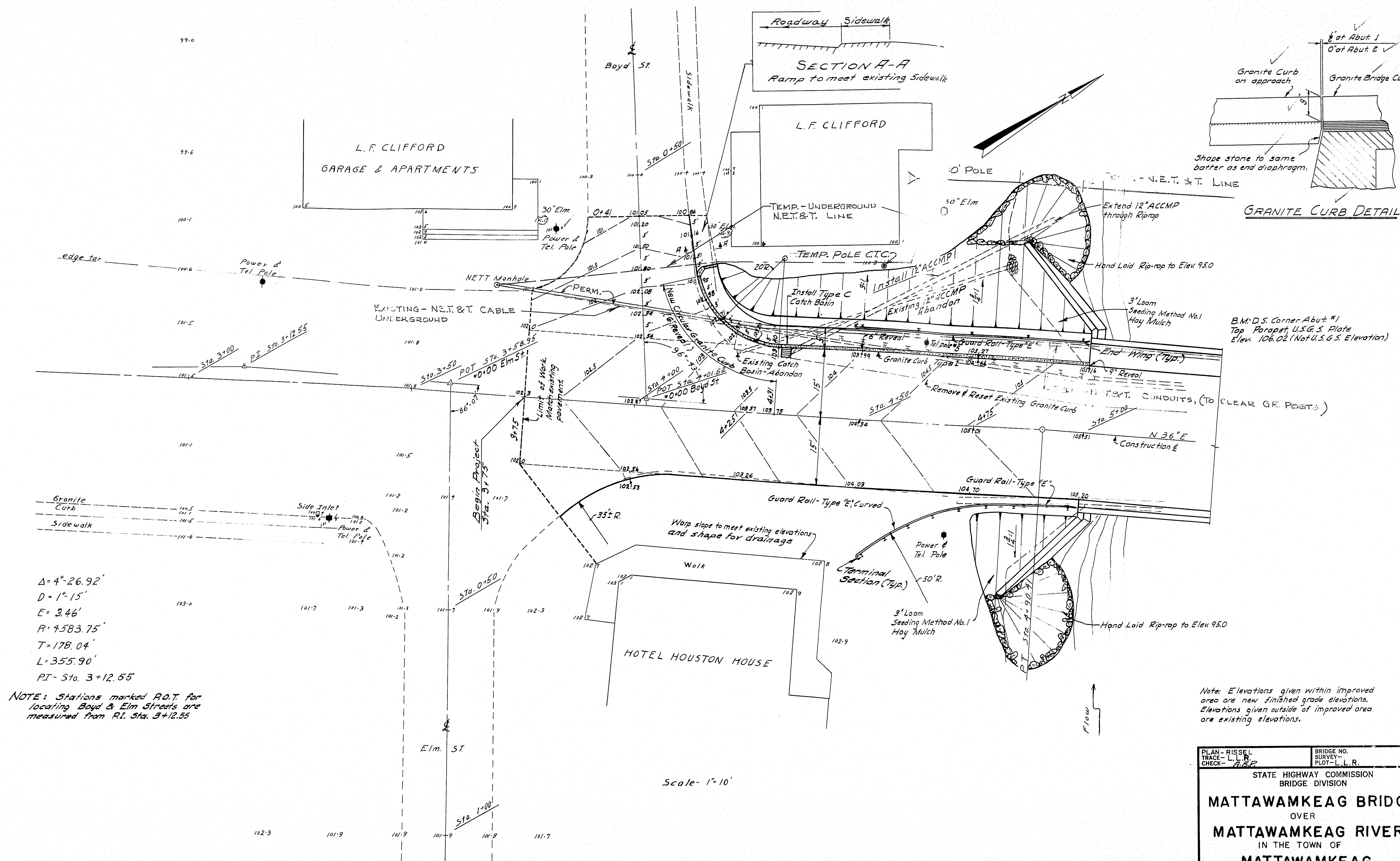
CONCRETE CLASSIFICATION

Substructure - Class B
Superstructure - Class A
Approach Slab - Class A

Note: For Estimate of Quantities See Sh. #14.
For Estimate of Quantities-Structure See Sh. #9.

DESIGN - M.C.R. TRACE - J.W.H. CHECK - A.B.P.	DETAIL - M.H.Y.	BRIDGE NO. SURVEY - PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
MATTAWAMKEAG BRIDGE		
OVER		
MATTAWAMKEAG RIVER		
IN THE TOWN OF		
MATTAWAMKEAG		
PENOBSCOT COUNTY		
GENERAL PLAN		
SHEET 3 OF 16 AUGUSTA, MAINE, OCT. 1961		

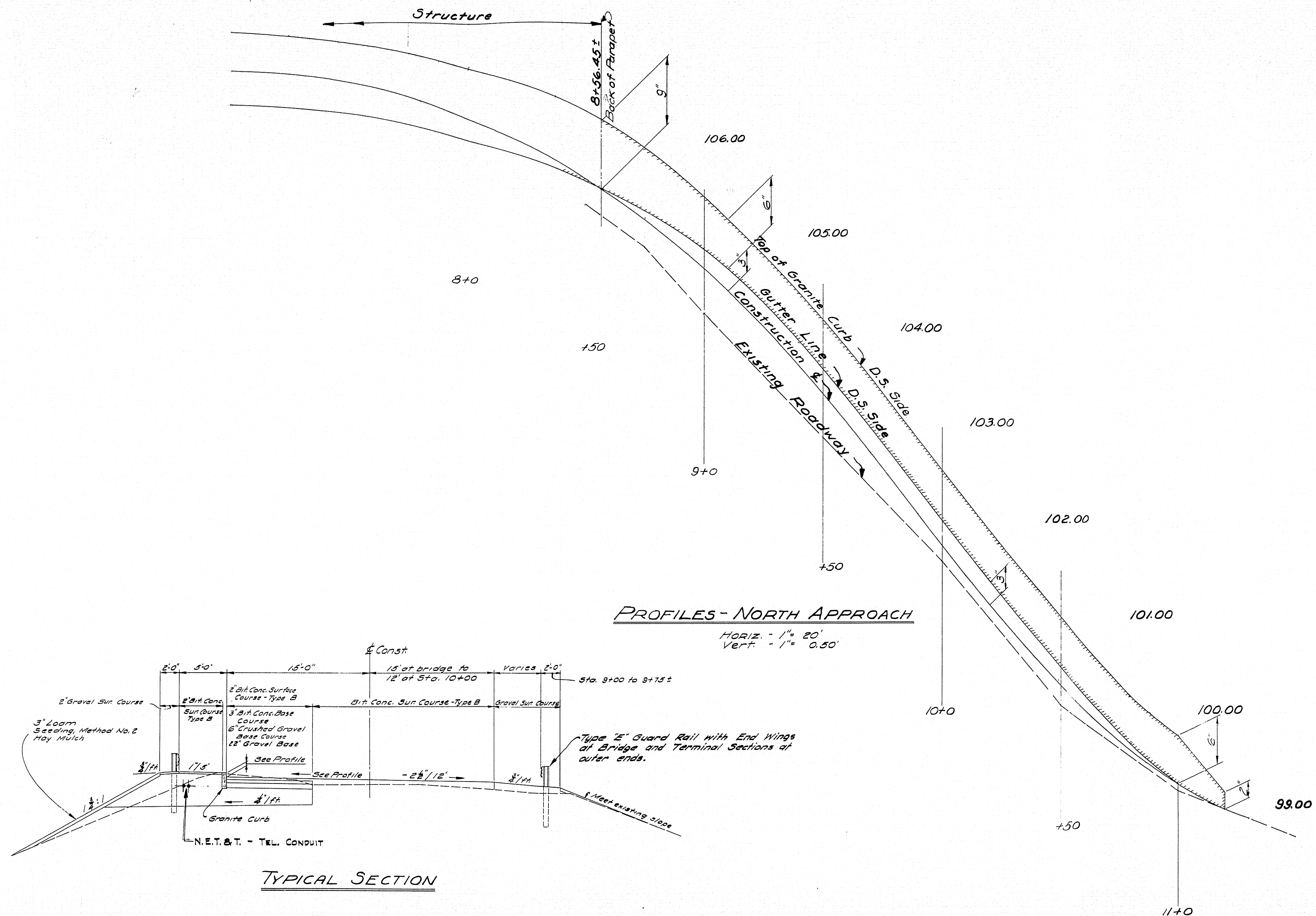
S. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-01-4(B)	4	16



PLAN - RISSEL TRACE - L.L.R. CHECK - A.B.P.	BRIDGE NO. SURVEY - PLOT - L.L.R.
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
MATTAWAMKEAG BRIDGE OVER MATTAWAMKEAG RIVER IN THE TOWN OF MATTAWAMKEAG PENOBSCOT COUNTY PLAN - SOUTH APPROACH	
SHEET 4 OF 16 AUGUSTA, MAINE OCT. 1961	

94-109

PROJECT NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	MAINE	F-0-4 (B)	6	16

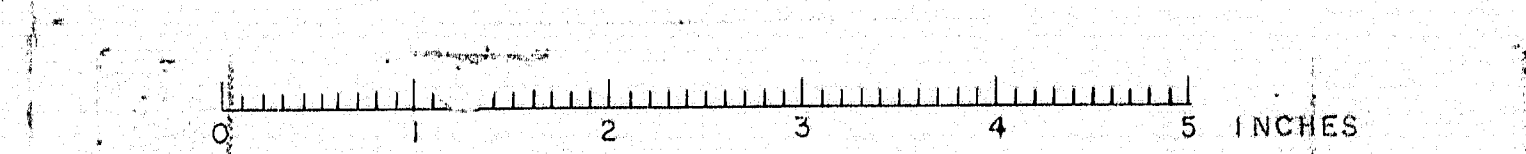


PROFILES - NORTH APPROACH

HORIZ. - 1" = 20'
VERT. - 1" = 0.50'

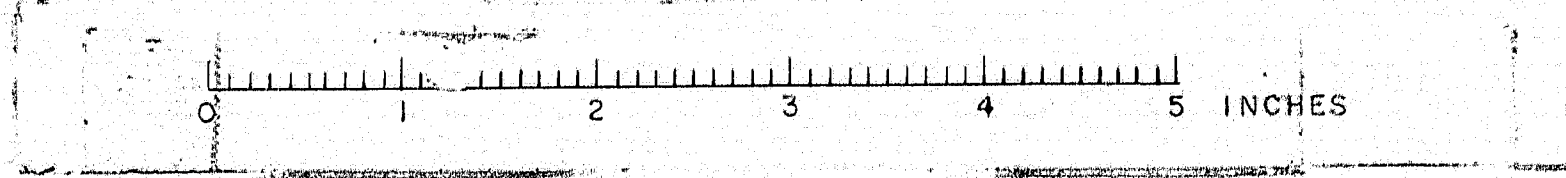
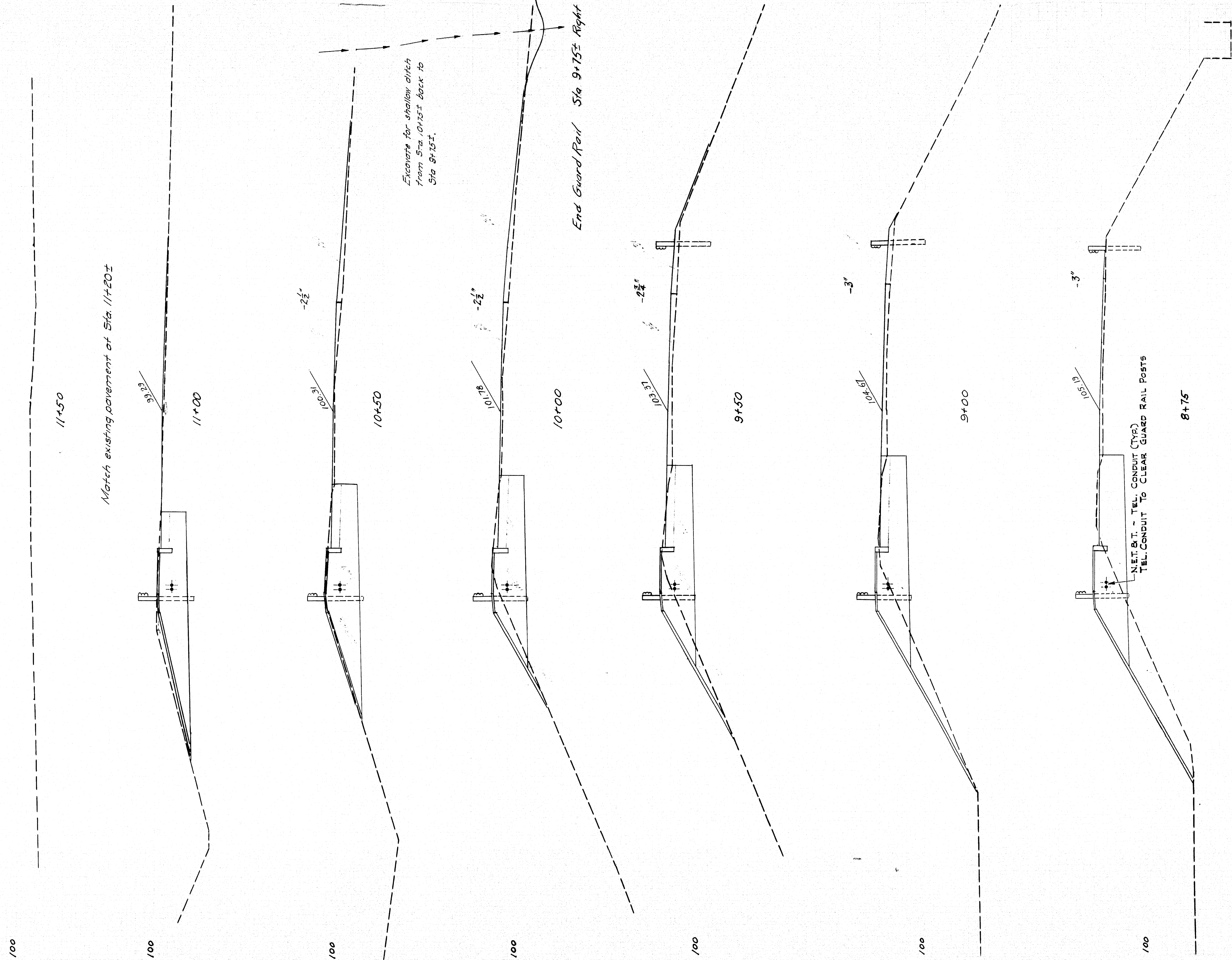
TYPICAL SECTION

DESIGN - W.H.Y.	BRIDGE NO.
TRACE - W.H.Y.	SURVEY -
CHECK - A.B.D.	PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
MATTAWAMKEAG BRIDGE	
OVER	
MATTAWAMKEAG RIVER	
IN THE TOWN OF	
MATTAWAMKEAG	
PENOBSCOT COUNTY	
TYPICAL SECTION & PROFILES	
NORTH APPROACH	
SHEET 6 OF 16 AUGUSTA, MAINE OCT. 1961	



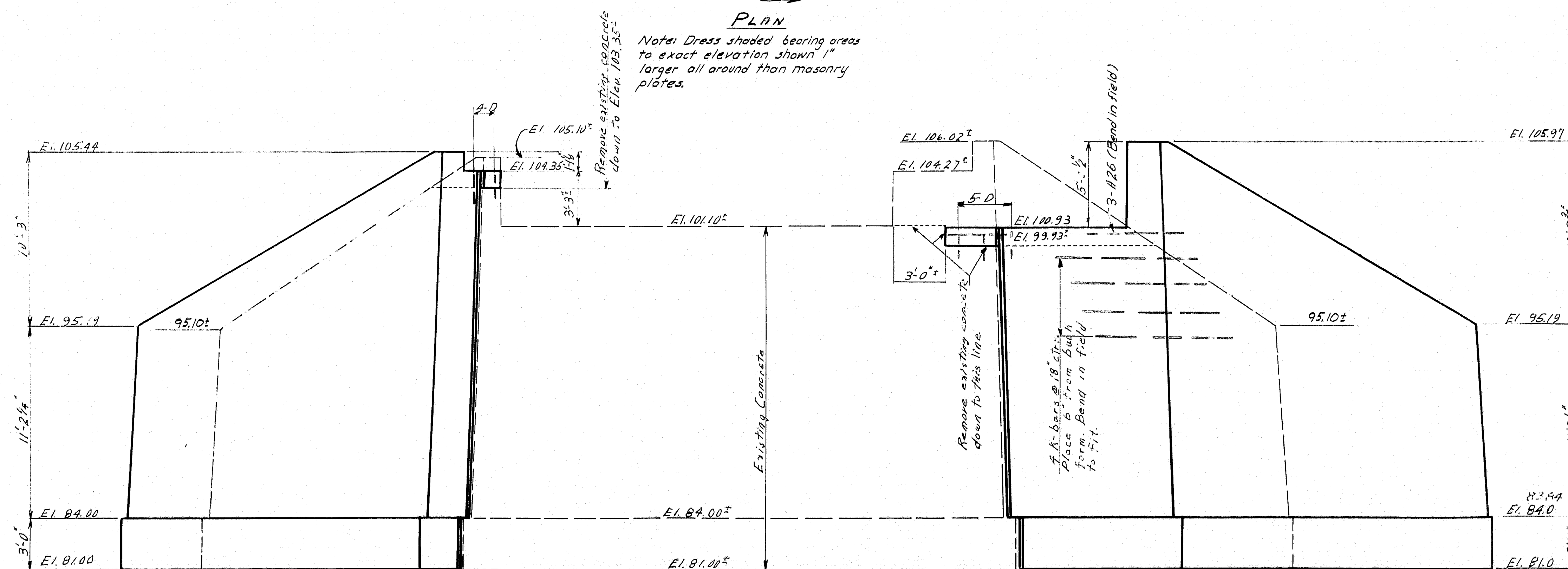
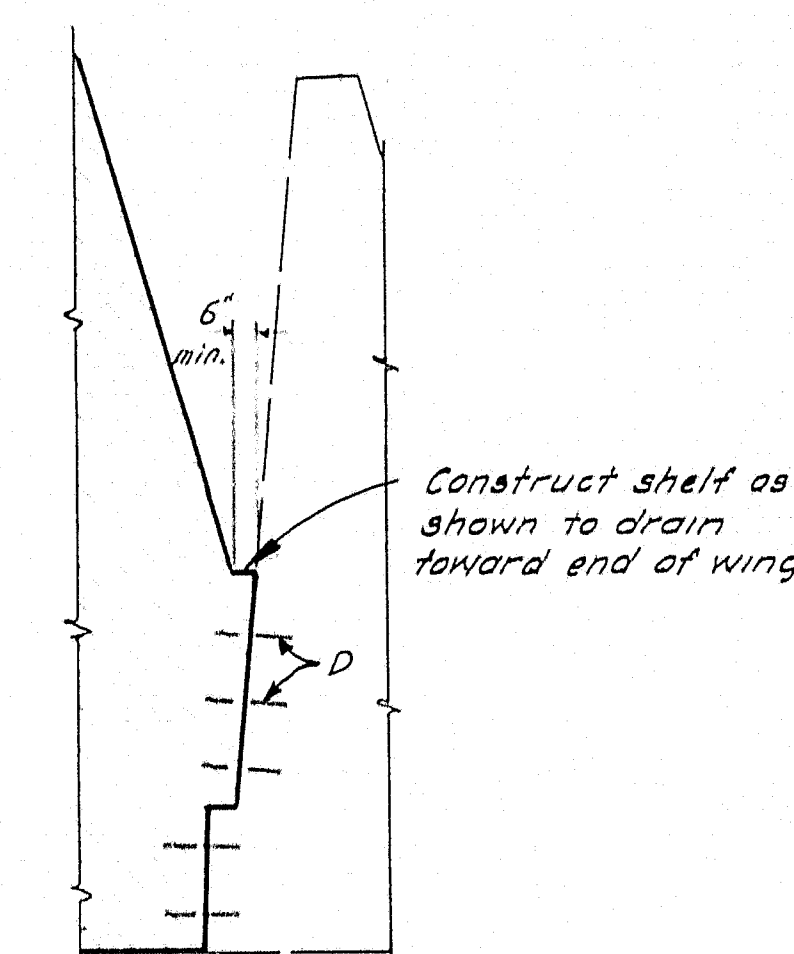
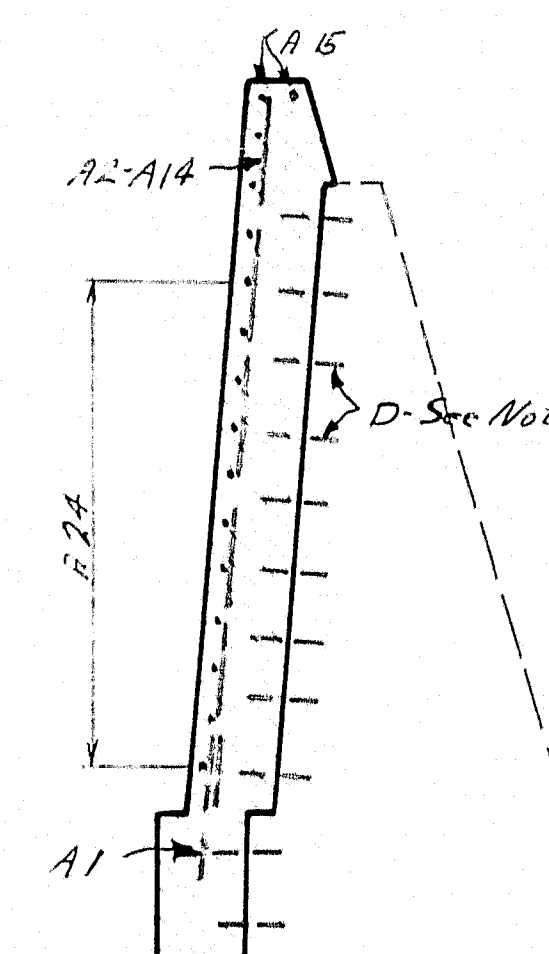
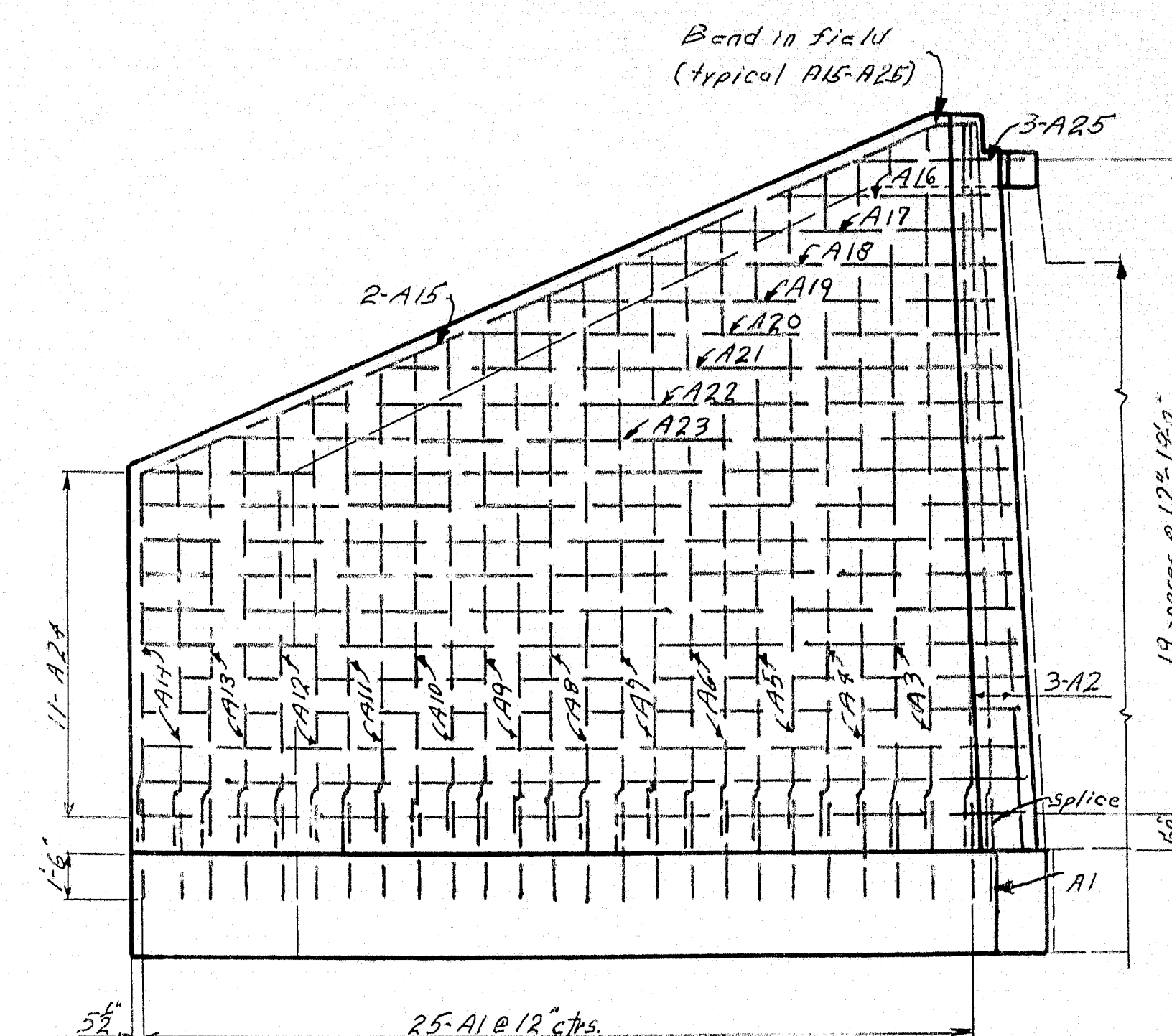
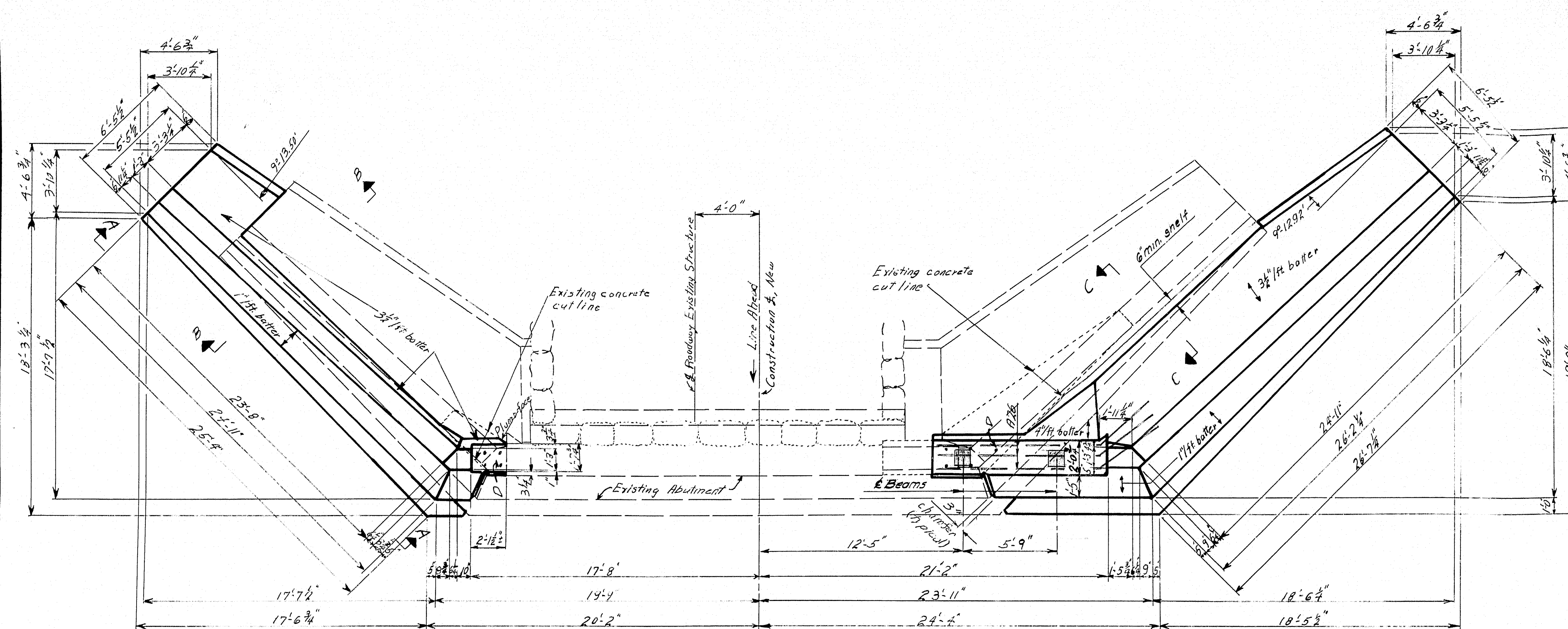
D.P.R.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	P-01-A (3)	7	16

Note:
For curb and gutter grades (left)
see Profiles Sh. 6



DESIGN - M.C.R.	BRIDGE NO.
TRACE - P. AULT	SURVEY
CHECK - P. AULT	PLOT - P. AULT
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
MATTAWAMKEAG BRIDGE OVER MATTAWAMKEAG RIVER IN THE TOWN OF MATTAWAMKEAG PENOBSCOT COUNTY	
CROSS SECTIONS - NORTH APPROACH SHEET 7 OF 16 AUGUSTA, ME. OCT. 1961	

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEET
1	MAINE	F-01-4(8)	8	16



DOWEL NOTE

Drill and grout dowels "D" 9" into existing concrete where shown on plans and at 18" ctrs. vertically and horizontally at all locations where new concrete is to be placed against vertical and battered surfaces of existing concrete. Payment to be made under item 705-20 "Drilling and Grouting Dowels Into Existing Concrete."

DESIGN— M.C.R.
TRACE—
CHECK— *RRB*

BRIDGE NO.
SURVEY—
PLOT—

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

MATTAWAMKEAG BRIDGE

OVER

MATTAWAMKEAG RIVER

IN THE TOWN OF

MATTAWAMKEAG

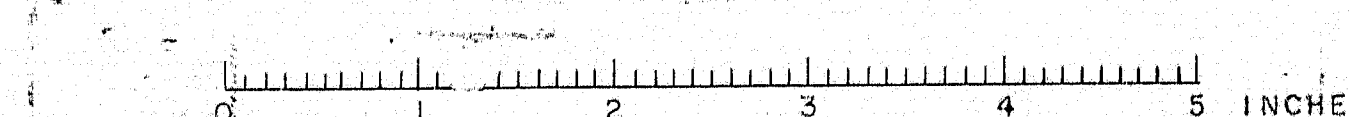
PENOBSCOT COUNTY

ABUTMENT 1

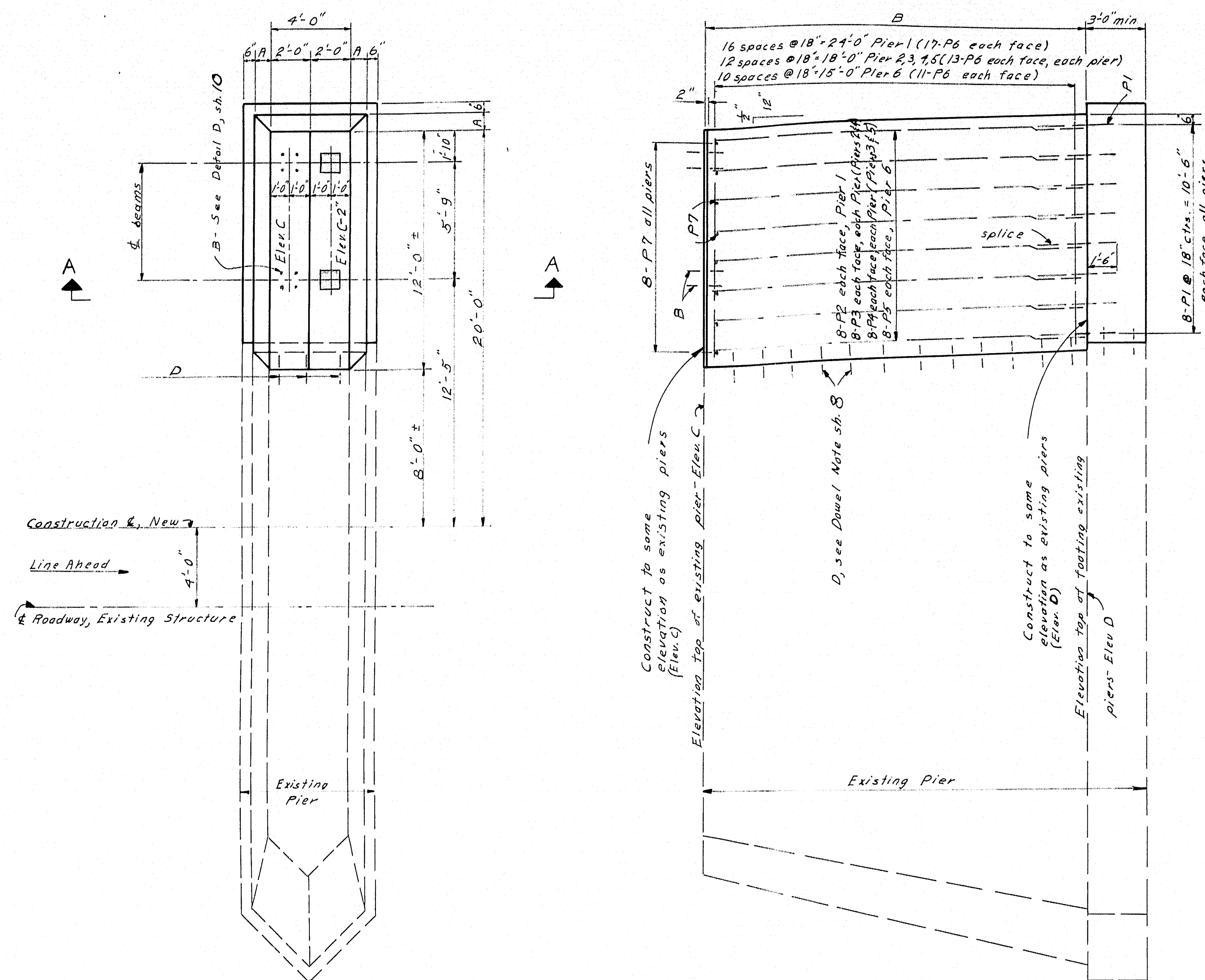
SHEET 8 of 16 AUGUSTA, MAINE OCT. 1951

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
MATTAWAMKEAG BRIDGE
OVER
MATTAWAMKEAG RIVER
IN THE TOWN OF
MATTAWAMKEAG
PENOBSCOT COUNTY
ABUTMENT 1
SHEET 8 OF 16 AUGUSTA, MAINE OCT. 1915

SHEET 8 OF 16 AUGUSTA, MAINE OCT. 19

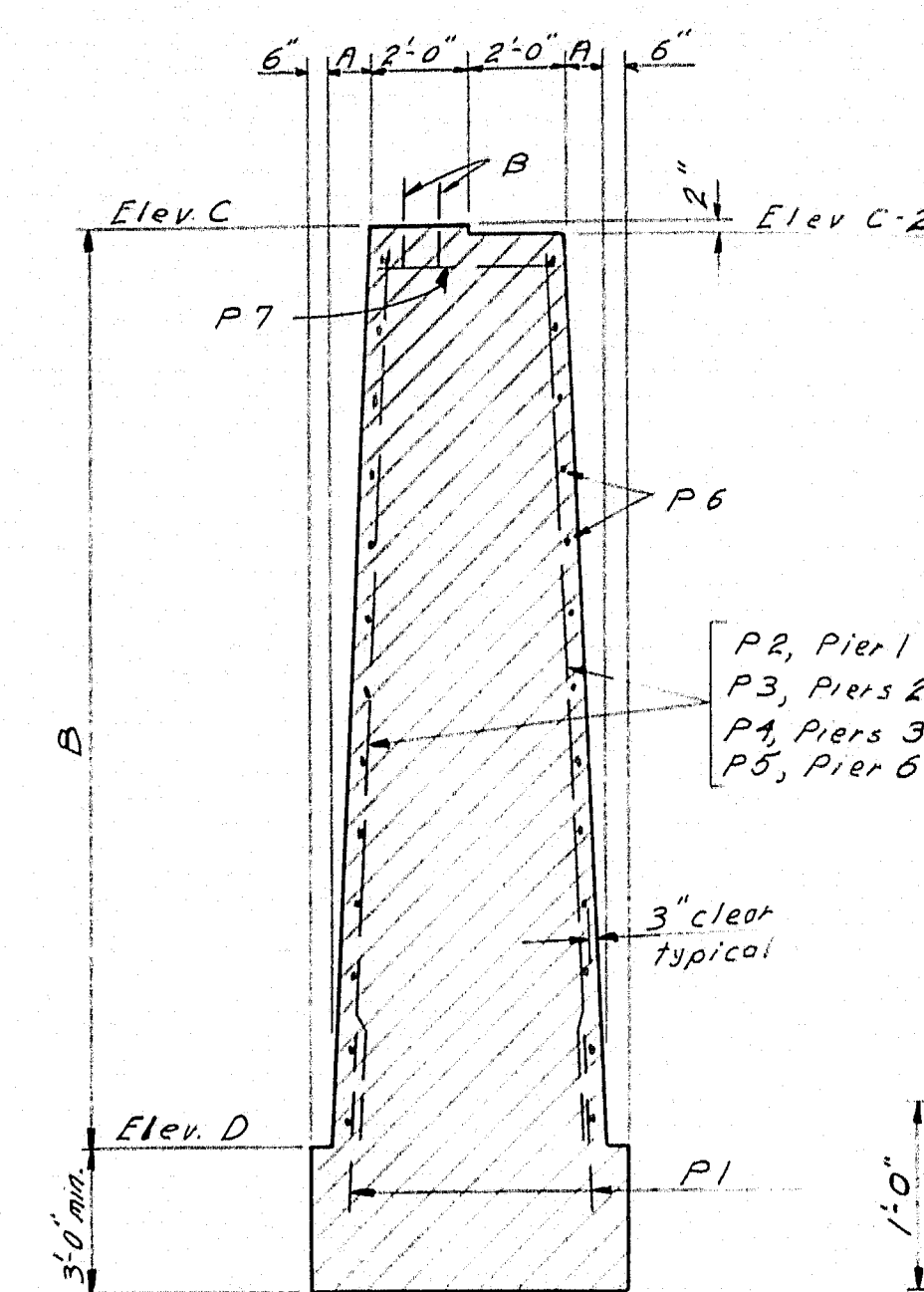


ESTIMATE OF QUANTITIES - STRUCTURE	B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	1	MAINE	F-01-4(B)	9	16
DESCRIPTION	QUANTITY				
Structural Earth Excavation, Abutments and Retaining Walls.	175 c.y.				
Structural Earth Excavation, Piers.	130 c.y.				
Leveling Course	31 tons				
Bituminous Concrete Surface Course, Type "B"	70 tons				
Plant Mixed Surface Treatment	23 tons				
Portland Cement Concrete, Abutments and Retaining Walls	210 c.y.				
Portland Cement Concrete, Piers	315 c.y.				
Portland Cement Concrete, Superstructure, T-Beam Type	475 c.y.				
Portland Cement	1389 bbls.				
Expansion Bearings	14 sets				
Superstructure Pipe Drains	14 each				
Reinforcing Steel, Delivered	88,475 lbs.				
Reinforcing Steel, Placing	88,475 lbs.				
Drilling and Grouting Dowels into Existing Concrete	750 each				
Welding Reinforcing to Old Reinforcing	2820 each				
Removal of Existing Concrete	125 c.y.				
Removal of Existing Concrete Rail	711.5 lin.ft.				
Cofferdams, Abutment No. 1.	lump sum				
Cofferdams, Pier No. 1.	lump sum				
Cofferdams, Pier No. 2.	lump sum				
Cofferdams, Pier No. 3.	lump sum				
Cofferdams, Pier No. 4.	lump sum				
Cofferdams, Pier No. 5.	lump sum				
Cofferdams, Pier No. 6.	lump sum				
Aluminum Rail	696 lin.ft.				
Epoxy Resin Waterproofing	450 s.y.				
Granite Bridge Curb	715 lin.ft.				
Hand Laid Riprap	85 c.y.				
Traffic Officers	3000 man hrs.				
Lighting System	lump sum				
Tack Coat	20 gals.				

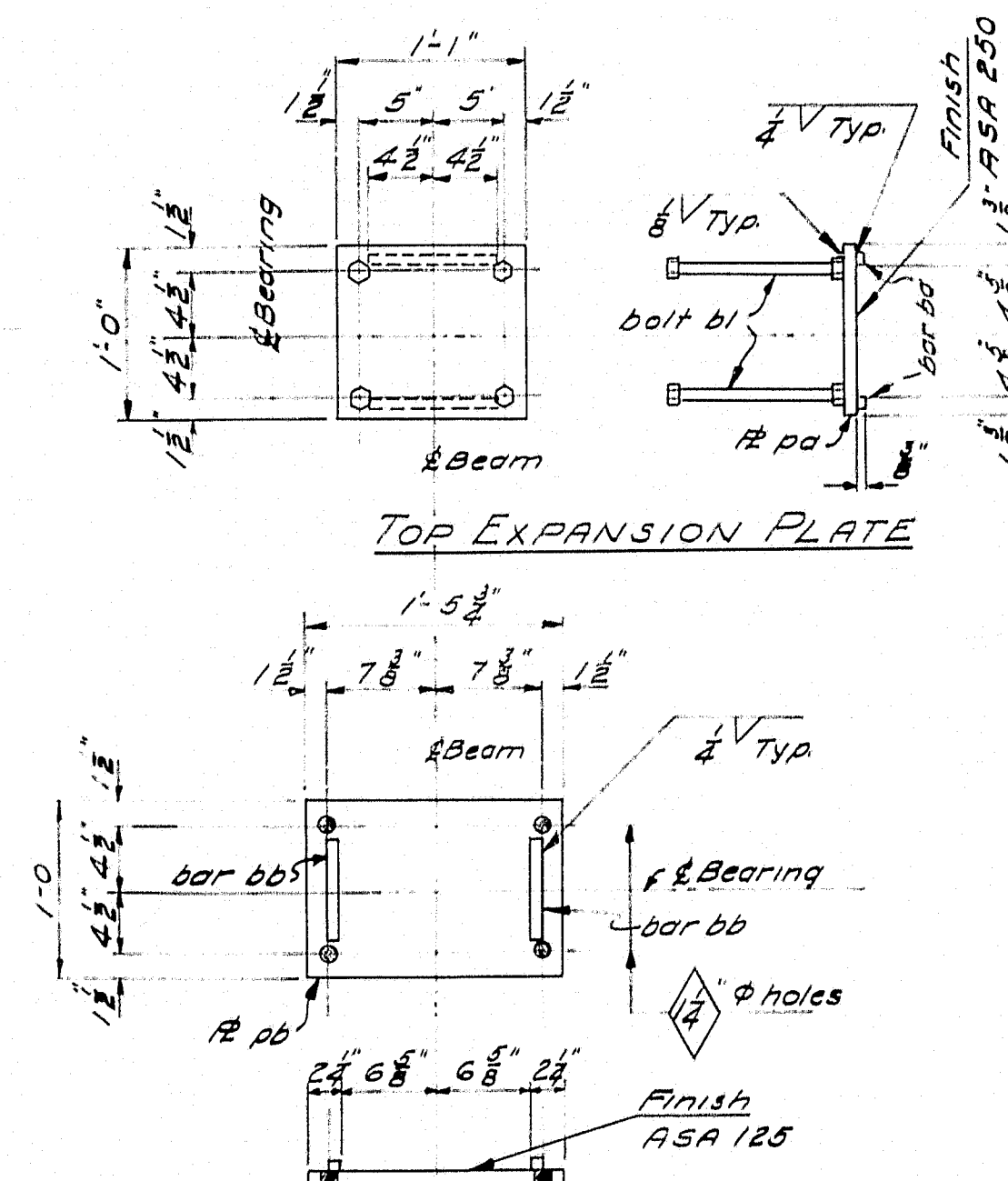


PLAN

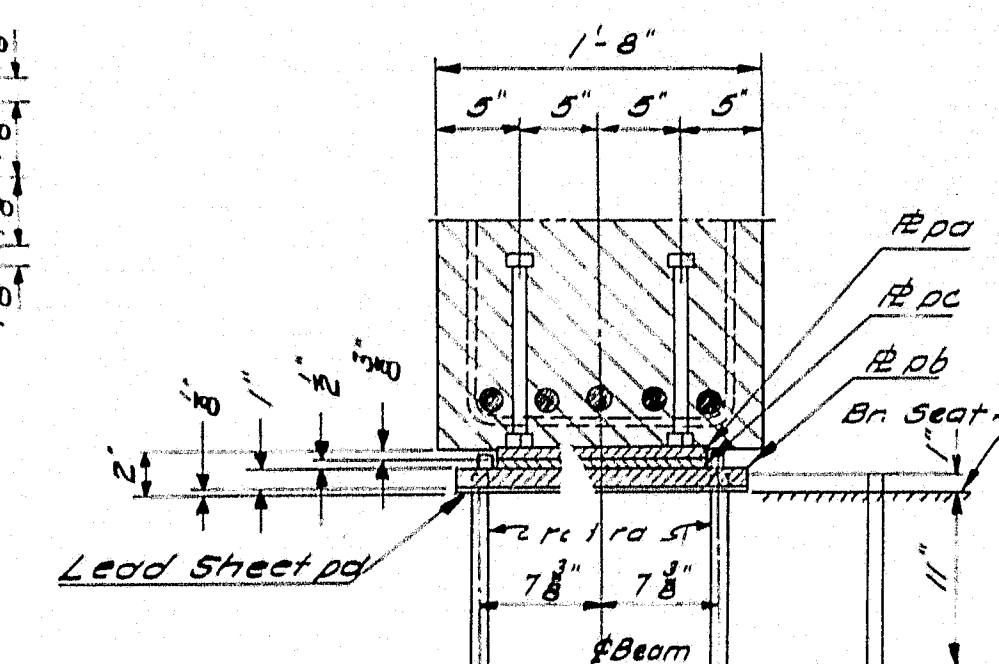
NOTE: Dress shaded bearing areas to elev. C-2, 1" larger all around than masonry plates.



SECTION A-A



BOTTOM EXPANSION PLATE



ASSEMBLY

(Drill for, and grout rods, ra, in position)

MATERIAL REQUIRED FOR ONE SET

- 1- Top Exp. \varnothing $12 \times \frac{1}{4} \times 1'-1"$ - \varnothing
 2- Bors $\frac{3}{4} \times \frac{1}{8} \times 0'-8"$ - \varnothing
 4- Bolts $\frac{3}{4} \times 12" \times 0.5$ hex. h. & nut $1\frac{1}{2}"$ thread - \varnothing
 1- Bot. Exp. \varnothing $12 \times 1" \times 1'-1.5"$ - \varnothing
 2- Bors $\frac{3}{4} \times \frac{1}{4} \times 0'-7"$ - \varnothing
 1- Bronze \varnothing $9' \times \frac{1}{2} \times 1'-1"$ self lubricating - \varnothing
 1- Lead Sheet $12' \times \frac{1}{8} \times 1'-5"$ - \varnothing
 4- Rods $1" \times 1'-0"$, plain - \varnothing
- Rep: 14 Sets

EXPANSION DETAILS

PAY NOTE

REMOVAL AND PATCHING OF EXISTING CONCRETE

REMOVAL AND PATCHING OF EXISTING CONCRETE

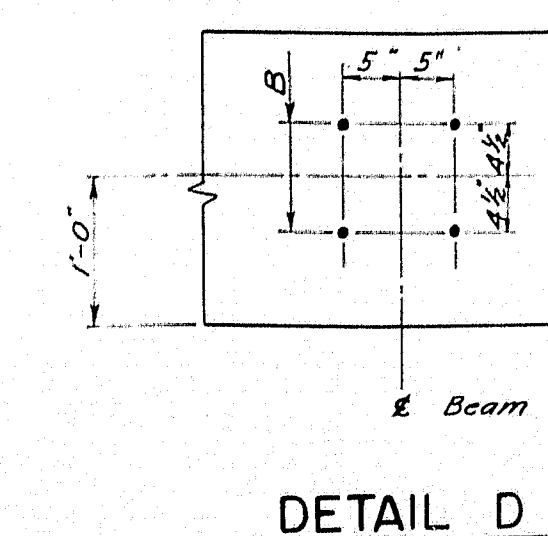
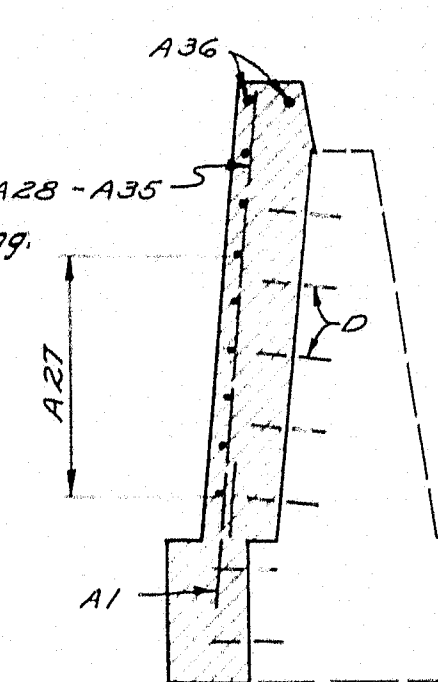
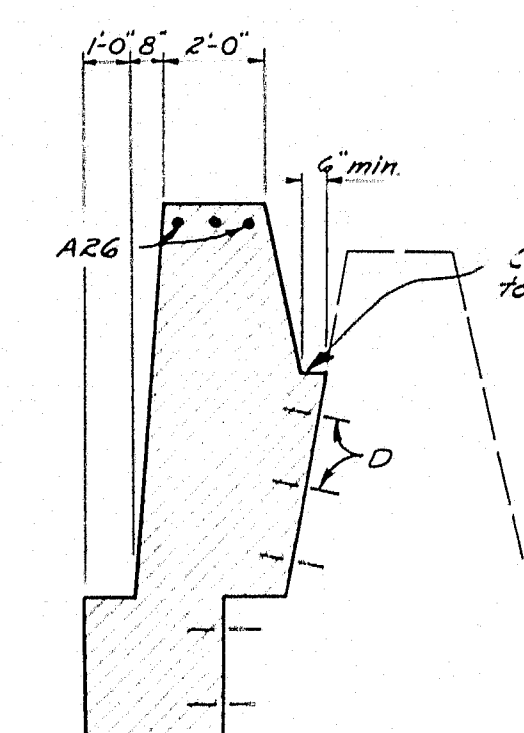
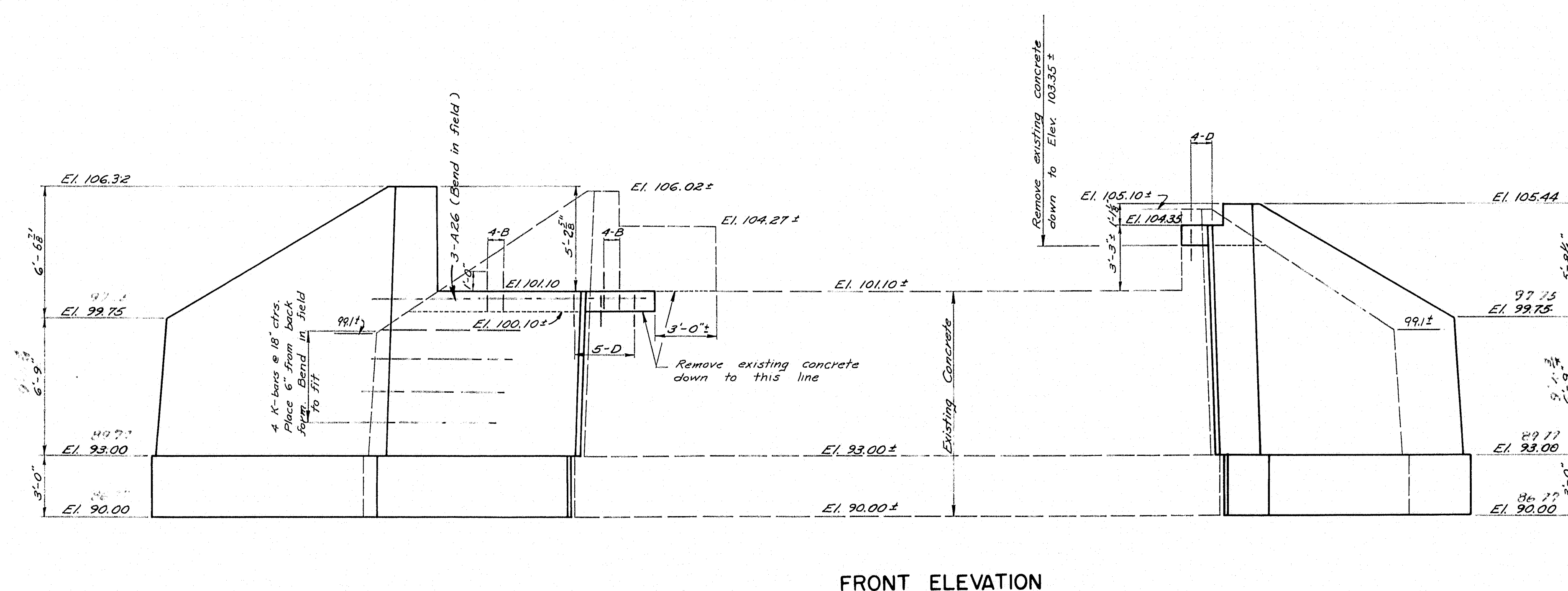
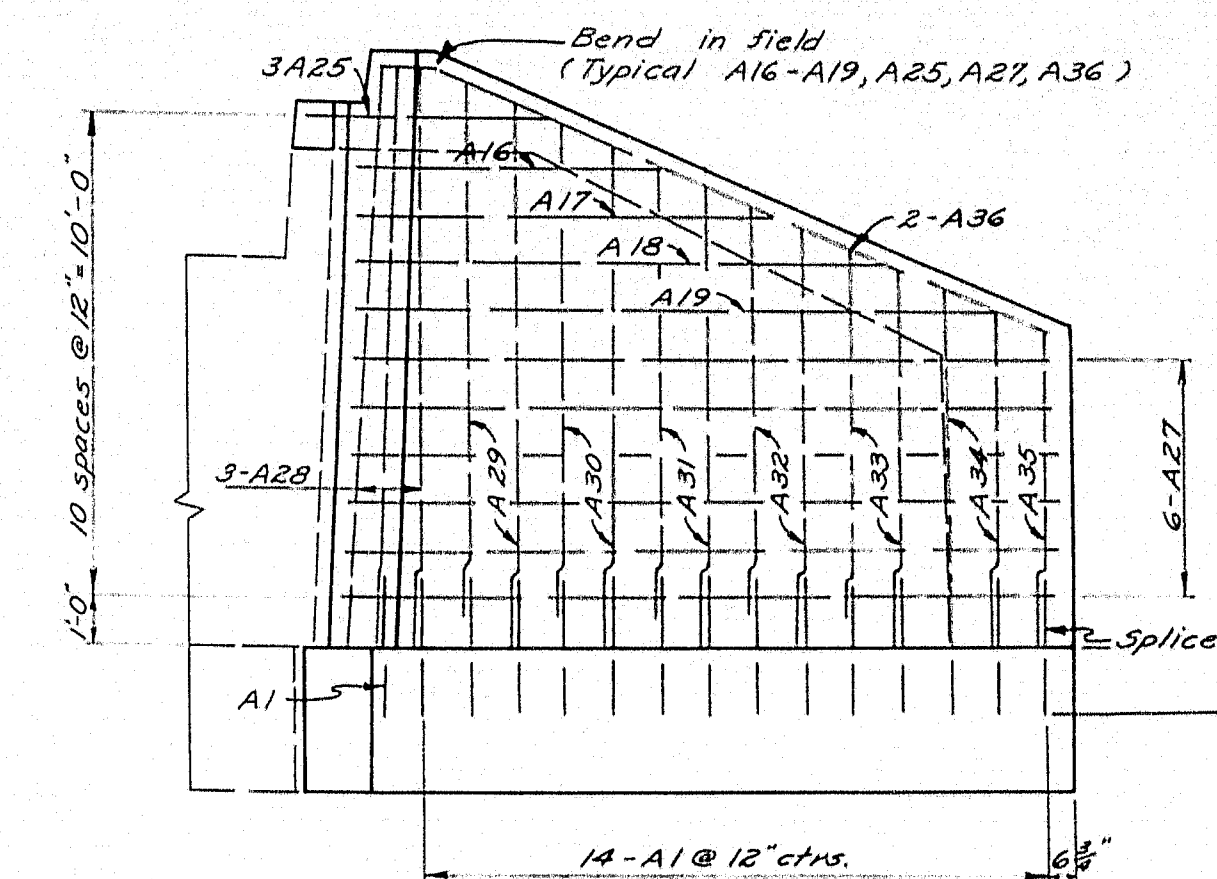
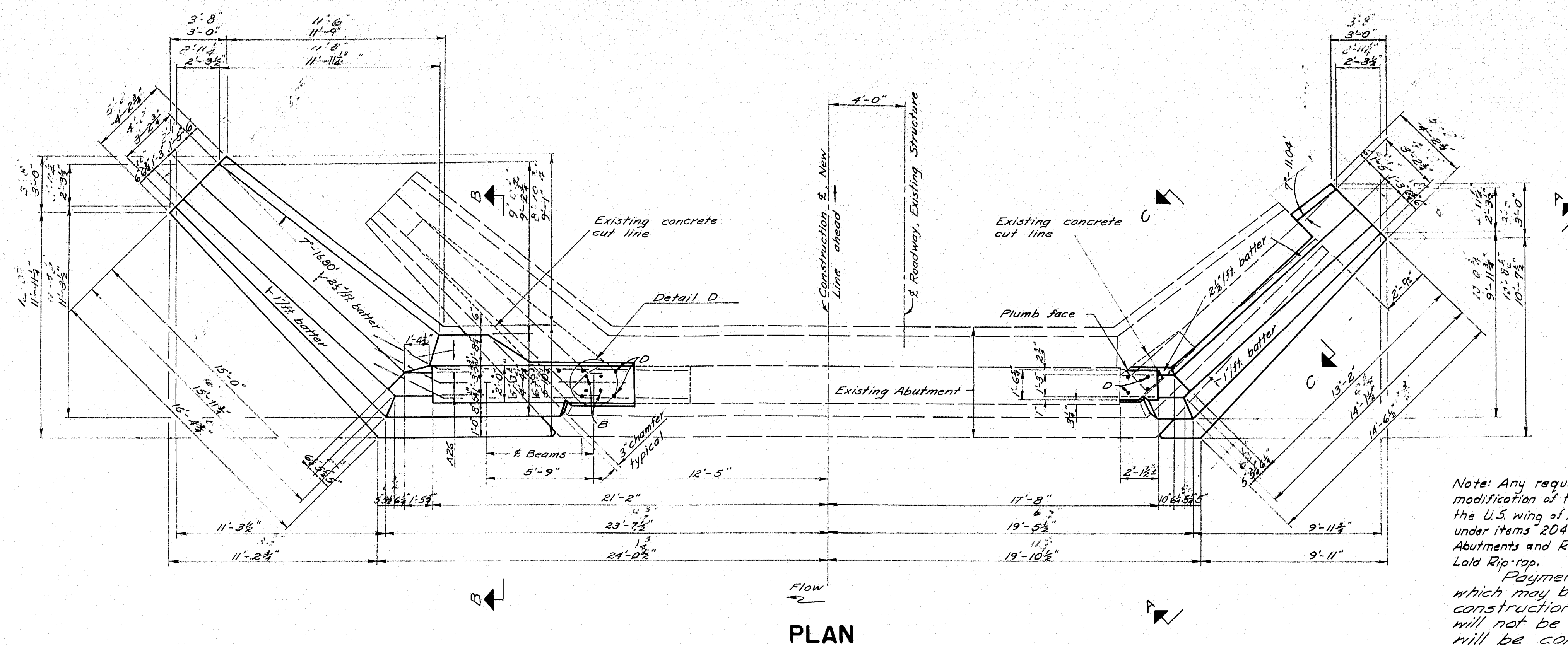
In those areas of existing concrete surface which need patching as determined by the Engineer, and are not to be covered with new concrete the required patching including the removal of deteriorated existing concrete will be paid for as extra work on a force account basis.

The removal of deteriorated existing concrete, as determined by the Engineer, in those areas where new concrete is to be placed against existing concrete and the removal of other existing concrete as indicated on these plans will be paid for under Item 801-8 Removal of Existing Concrete. The new concrete will be paid for under the applicable concrete item.

TABLE OF PIER ELEVATIONS & DIMENSIONS

PIER	ELEV. C	ELEV. D	DIMENSION B	DIMENSION A
1	101.9 ±	77.0 ±	24'-11" ±	1'-0.5" ±
2	102.2 ±	83.0 ±	19'-2" ±	9 ±
3	102.4 ±	81.5 ±	20'-11" ±	10 1/2" ±
4	102.4 ±	83.0 ±	19'-6" ±	9 3/4" ±
5	102.2 ±	81.5 ±	20'-8" ±	10 ±
6	101.9 ±	86.0 ±	15'-11" ±	8 ±

NOTE: Dimension A as shown in table is based on Elevations C and D to be as shown and that the batter used in original construction was $\frac{1}{2}$ hr. If conditions other than these prevail Dimension A must be recalculated in the field.



Note: See sheet 8 for Dowel Note.
See sheet 9 for PAY NOTE, REMOVAL AND PATCHING OF EXISTING CONCRETE.

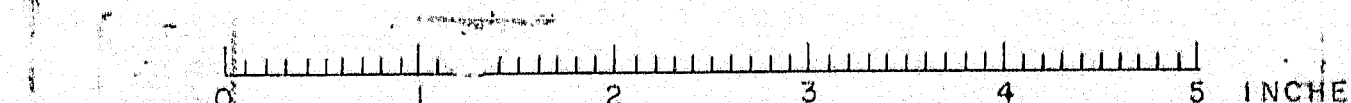
DESIGN - M.C.B.
TRACE - E.E.L.
CHECK - P.B.D.

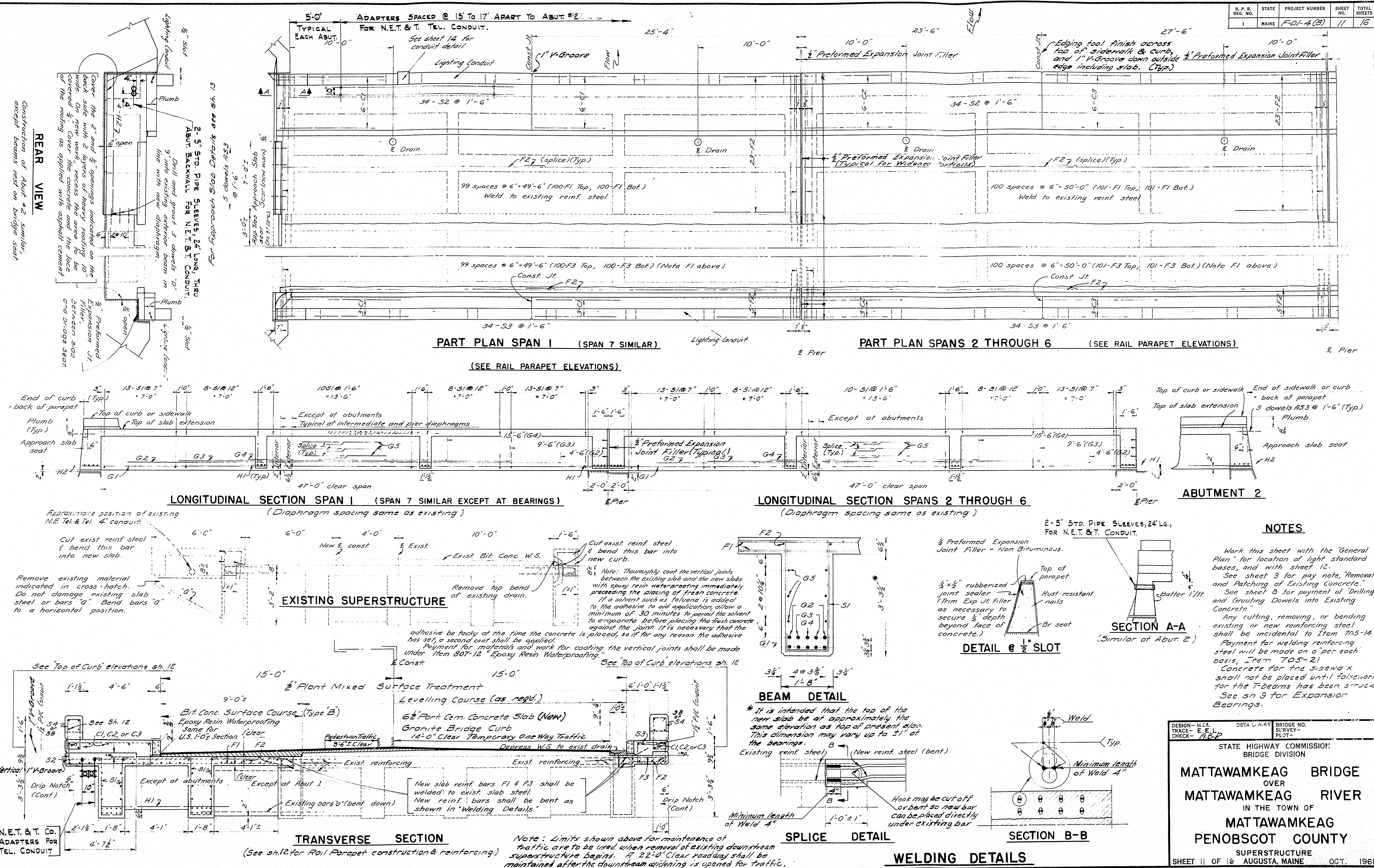
BRIDGE NO. SURVEY PLOT

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

MATTAWAMKEAG BRIDGE
OVER
MATTAWAMKEAG RIVER
IN THE TOWN OF
MATTAWAMKEAG
PENOBSCOT COUNTY
ABUTMENT 2

SHEET 10 OF 16 AUGUSTA, MAINE OCT. 1961

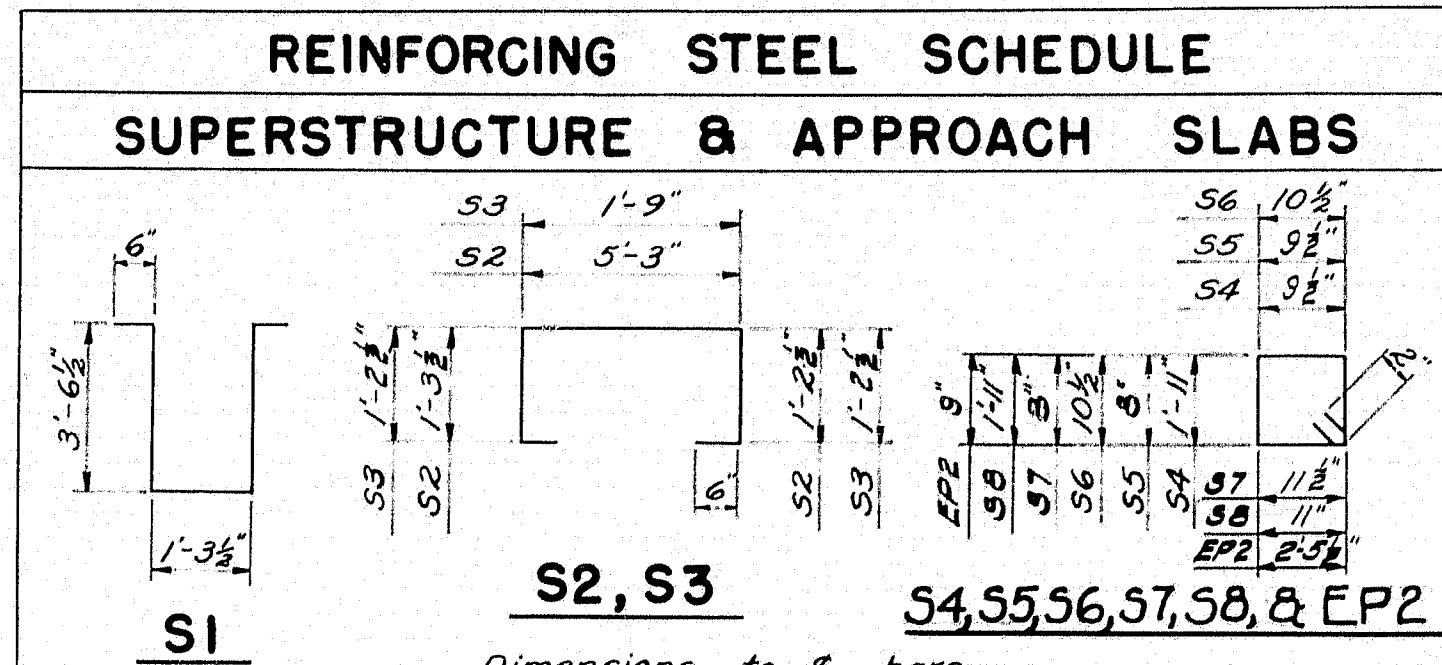




DOWELS "D"

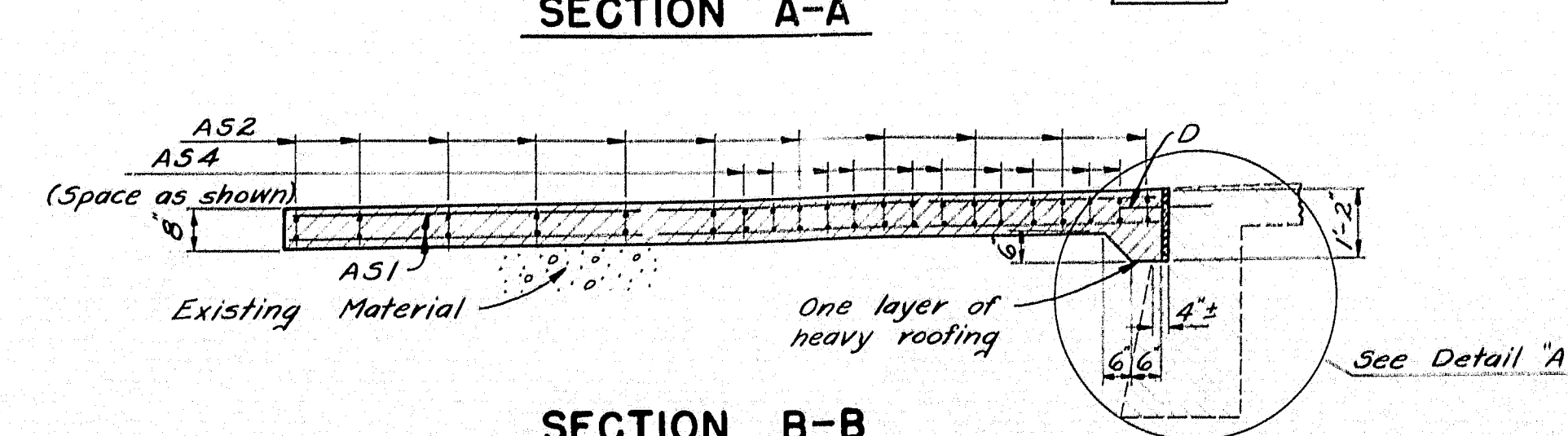
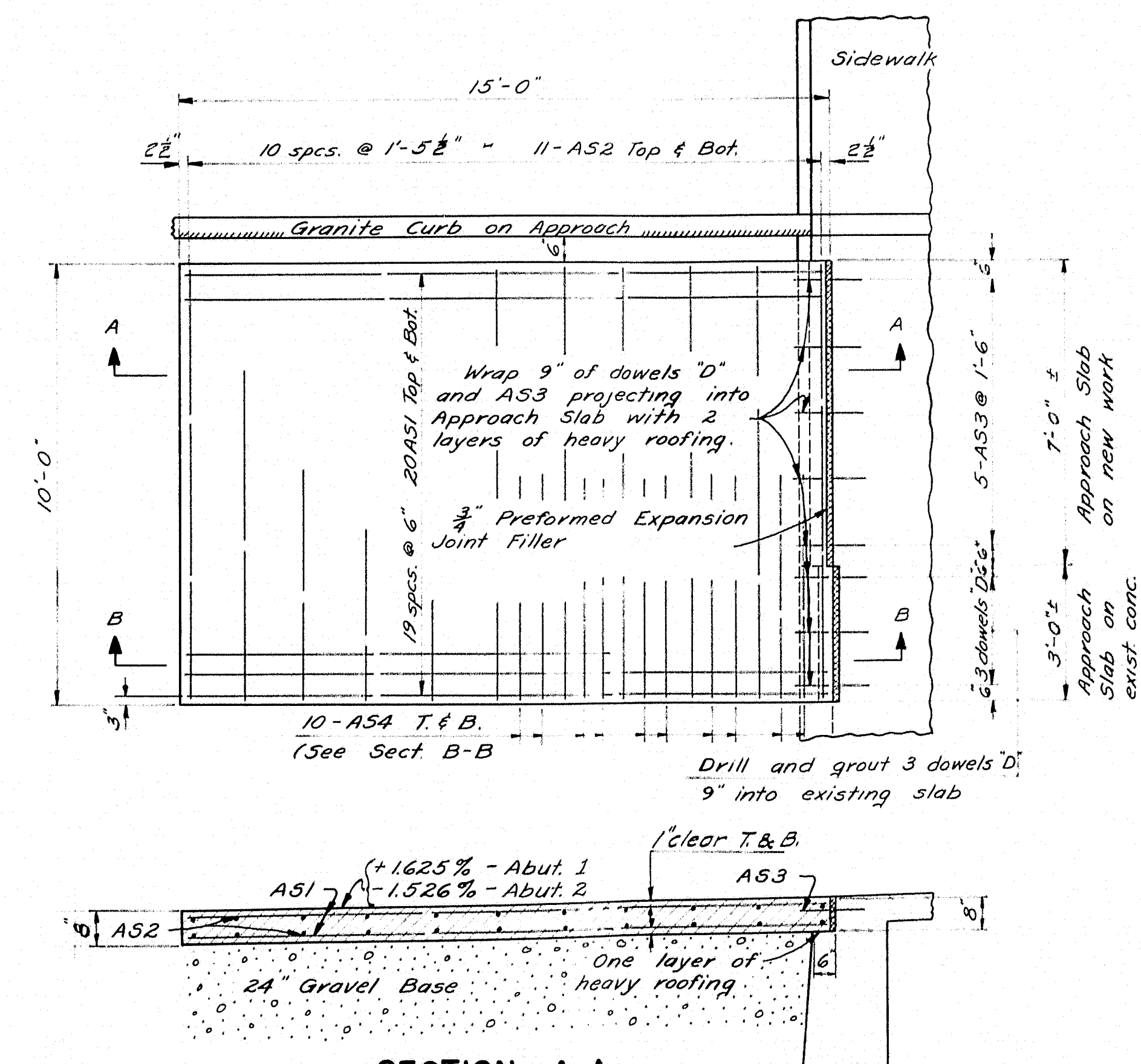
750 required, #6 x 1'-6" for abutments
piers and superstructure.

Note: Payment for dowels "D" to be included under contract
item 705-20, "Drilling and Grouting Dowels into Existing Concrete"
and not under contract items 705-13 & 14, "Reinforcing Steel
Delivered & Placing."

REINFORCING STEEL SCHEDULE				
SUPERSTRUCTURE & APPROACH SLABS				
				
BENT BARS				
Mark	Size	No.	Length	Location
EP2	#4	8	6'-9"	End Posts
S1	#4	128	9'-5"	T-beam Stems
S2	#4	238	8'-3"	Sidewalk
S3	#4	238	5'-2"	Curb
S4	#6	44	5'-3"	Rail Parapets
S5	#4	408	3'-3"	Rail Parapets
S6	#4	8	3'-10"	Light Standard Bases
S7	#4	168	3'-7"	Rail Parapets
S8	#6	168	6'-0"	Rail Parapets
STRAIGHT BARS				
AS1	#6	80	14'-8"	Approach Slab
AS2	#4	44	9'-8"	"
AS3	#6	10	1'-6"	" (dowels)
AS4	#6	40	5'-0"	"
C1	#4	36	25'-0"	Curb and Sidewalk
C2	#4	45	23'-2"	"
C3	#4	45	21'-2"	"
EP1	#6	24	2'-8"	End Posts
F1	#5	1410	14'-3"	Floor Slab
F2	#4	392	25'-9"	"
F3	#5	1410	2'-9"	"
G1	#11	70	30'-8"	T-Beam Stems
G2	#11	28	42'-0"	"
G3	#11	28	32'-0"	"
G4	#11	14	20'-0"	"
G5	#4	168	25'-9"	" (Spliced)
H1	#6	90	8'-6"	Concrete Diaphragms
H2	#6	8	13'-5"	Concrete Diaphragms @ Abutments
R1	#4	64	3'-10"	Rail Parapet
R2	#4	64	6'-0"	"
R3	#4	284	3'-6"	"
R4	#4	96	2'-6"	"
R5	#4	48	3'-5"	Rail Parapet
R6	#4	152	6'-4"	"

REINFORCING STEEL SCHEDULE - ABUTMENTS				
STRAIGHT BARS				
Mark	Size	No.	Length	Location
K	#6	8	8'-0"	D.S. wing, both abutments
B	#6	8	2'-0"	Abutment #2
A25	#6	6	5'-3"	U.S. wing, both abutments
A26	#6	6	14'-0"	D.S. wing, both abutments
A1	#5	41	3'-0"	U.S. wing, both abutments
A2		3	21'-2"	U.S. wing, abutment #1
A3		2	20'-8"	"
A4		2	19'-9"	"
A5		2	18'-11"	"
A6		2	18'-0"	"
A7		2	17'-2"	"
A8		2	16'-4"	"
A9		2	15'-5"	"
A10		2	14'-7"	"
A11		2	13'-9"	"
A12		2	12'-10"	"
A13		2	12'-0"	"
A14		2	11'-1"	"
A28		3	12'-2"	U.S. wing, abutment #2
A29		2	11'-6"	"
A30		2	10'-7"	"
A31		2	9'-9"	"
A32		2	8'-11"	"
A33		2	8'-0"	"
A34		2	7'-2"	"
A35	#5	1	6'-9"	"
A15	#4	2	26'-0"	U.S. wing, abutment #1
A16		2	6'-11"	U.S. wing, both abutments
A17		2	9'-3"	"
A18		2	11'-9"	"
A19		2	14'-2"	"
A20		1	16'-2"	U.S. wing, abutment #1
A21		1	18'-7"	"
A22		1	20'-10"	"
A23		1	23'-3"	"
A24		11	26'-1"	"
A27		6	15'-3"	U.S. wing, abutment #2
A36	#4	2	14'-9"	"

REINFORCING STEEL SCHEDULE - PIERS				
STRAIGHT BARS				
Mark	Size	No.	Length	Location
B	#6	98	2'-0"	All piers
P1		96	4'-0"	"
P2		16	24'-6"	Pier 1
P3		32	18'-10"	Piers 2 & 4
P4		32	20'-4"	Piers 3 & 5
P5	#6	16	15'-6"	Pier 6
P6	#4	160	11'-6"	All piers
P7	#4	48	3'-6"	All piers



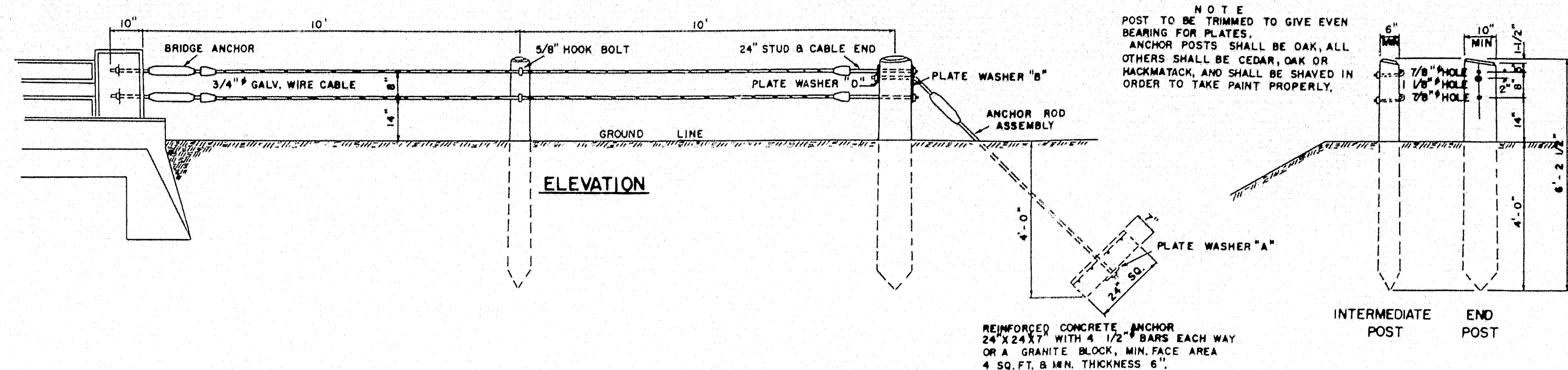
APPROACH SLAB DETAILS

(SLAB AT ABUT. 1 SHOWN - ABUT. 2 SLAB SIMILAR)

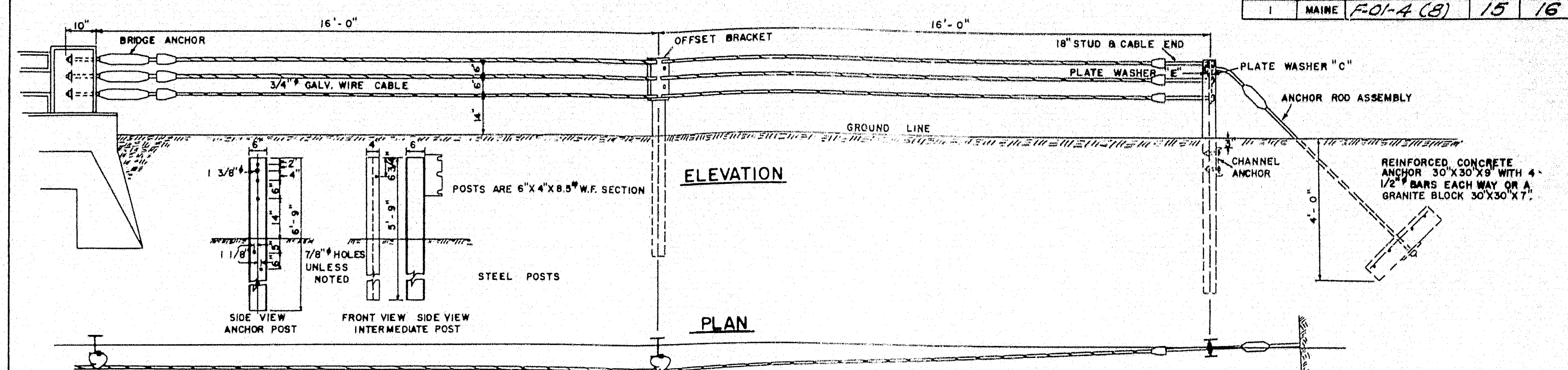
DETAIL "A"

Notes:
See sh. 9 for pay note, "Removal and Patching of Existing Concrete."
See sh. 8 for payment of, "Drilling and Grouting Dowels into Existing Concrete."

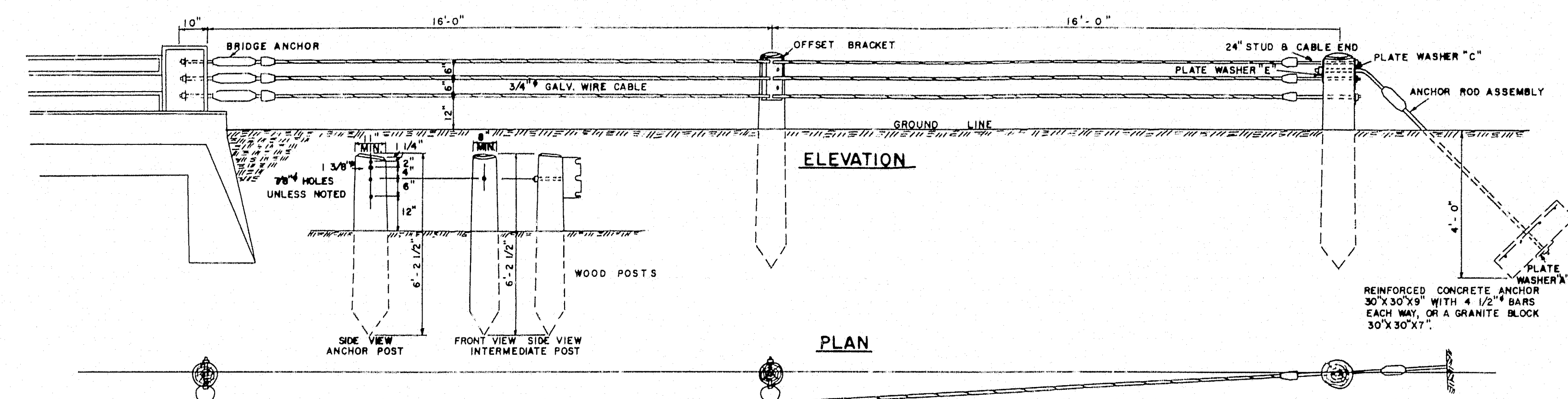
DESIGN—W.C.E.	DETAIL—W.C.E.	BRIDGE NO.
TRACE—E.E.L.		SURVEY—
CHECK—J.B.P.		PLOT—
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
MATTAWAMKEAG		BRIDGE
OVER		
MATTAWAMKEAG		RIVER
IN THE TOWN OF		
MATTAWAMKEAG		
PENOBSCOT		COUNTY
REINFORCING STEEL & APPROACH SLAB		
SHEET 13 OF 16 AUGUSTA, MAINE		OCT. 1961



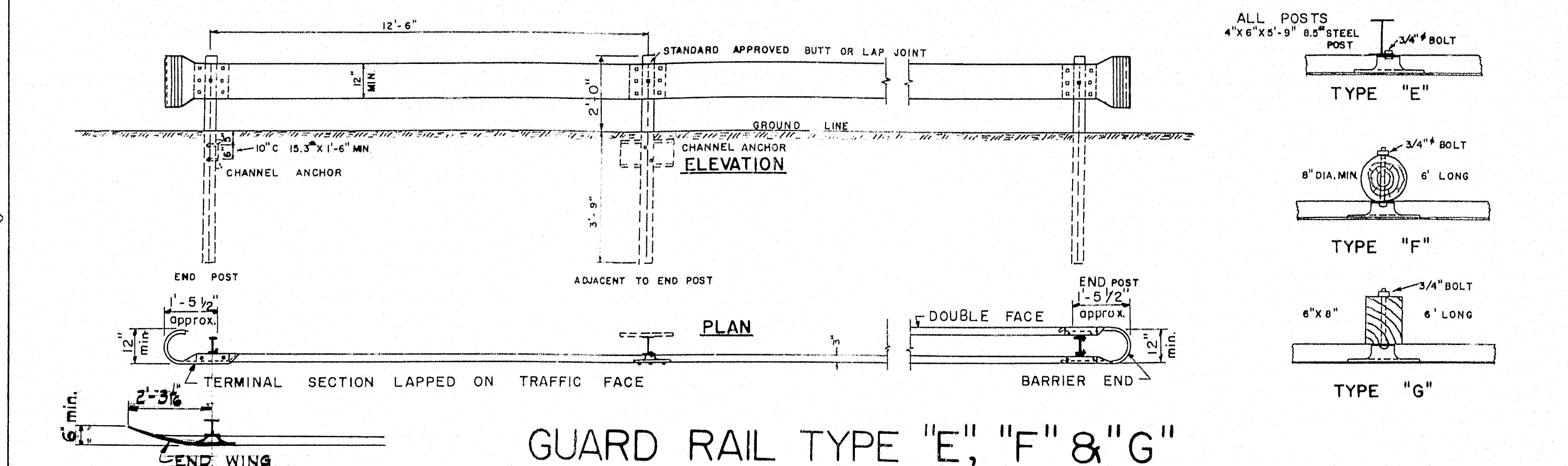
GUARD RAIL TYPE "A" & "B"



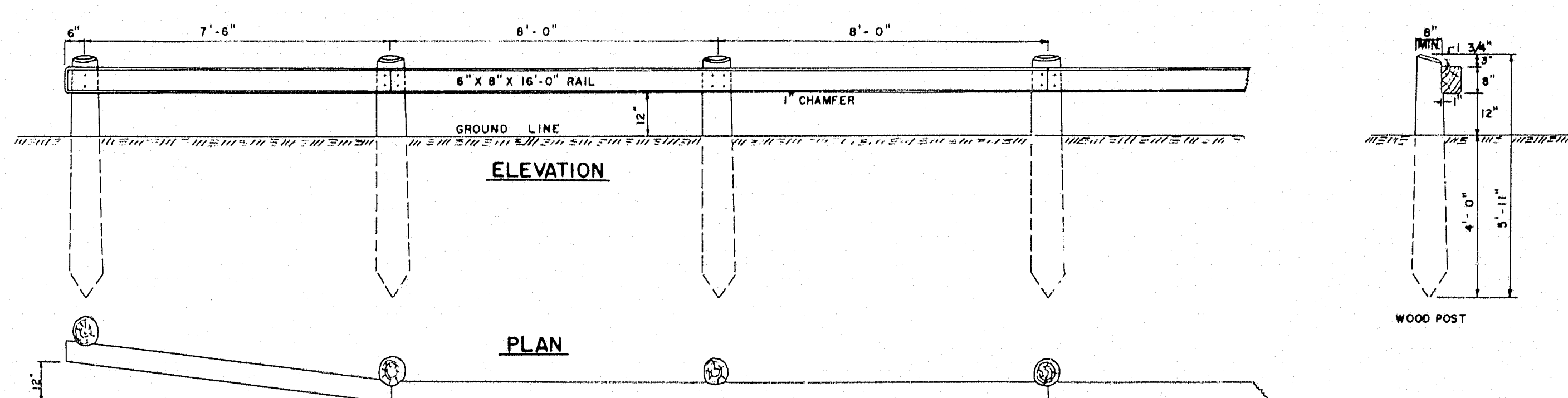
GUARD RAIL TYPE "C"



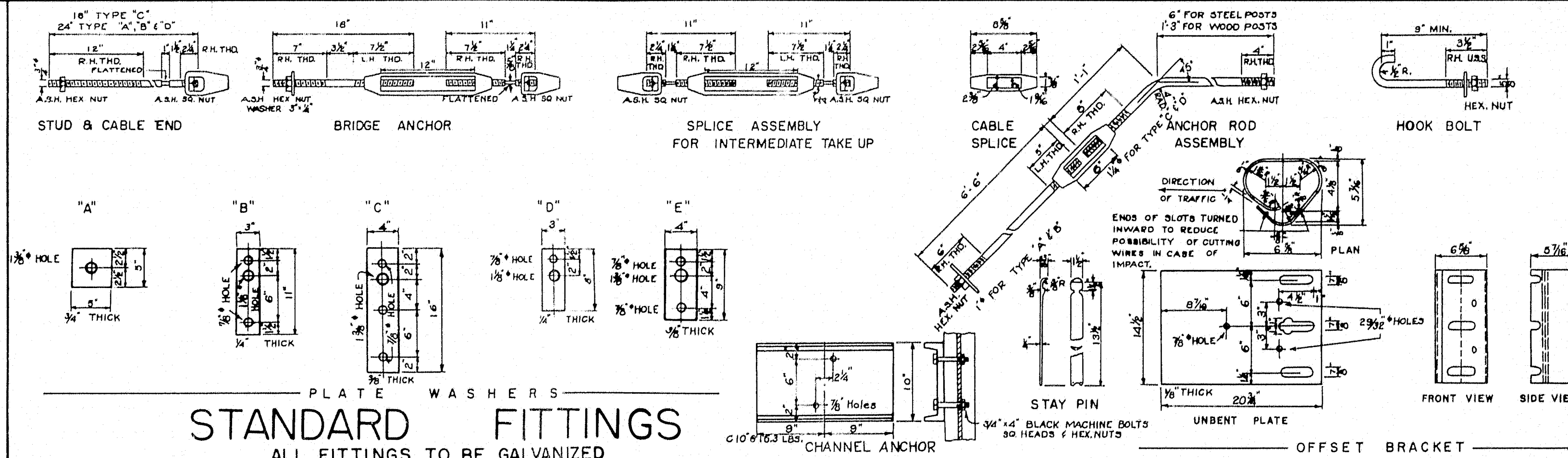
GUARD RAIL TYPE "D"



GUARD RAIL TYPE "E", "F" & "G"

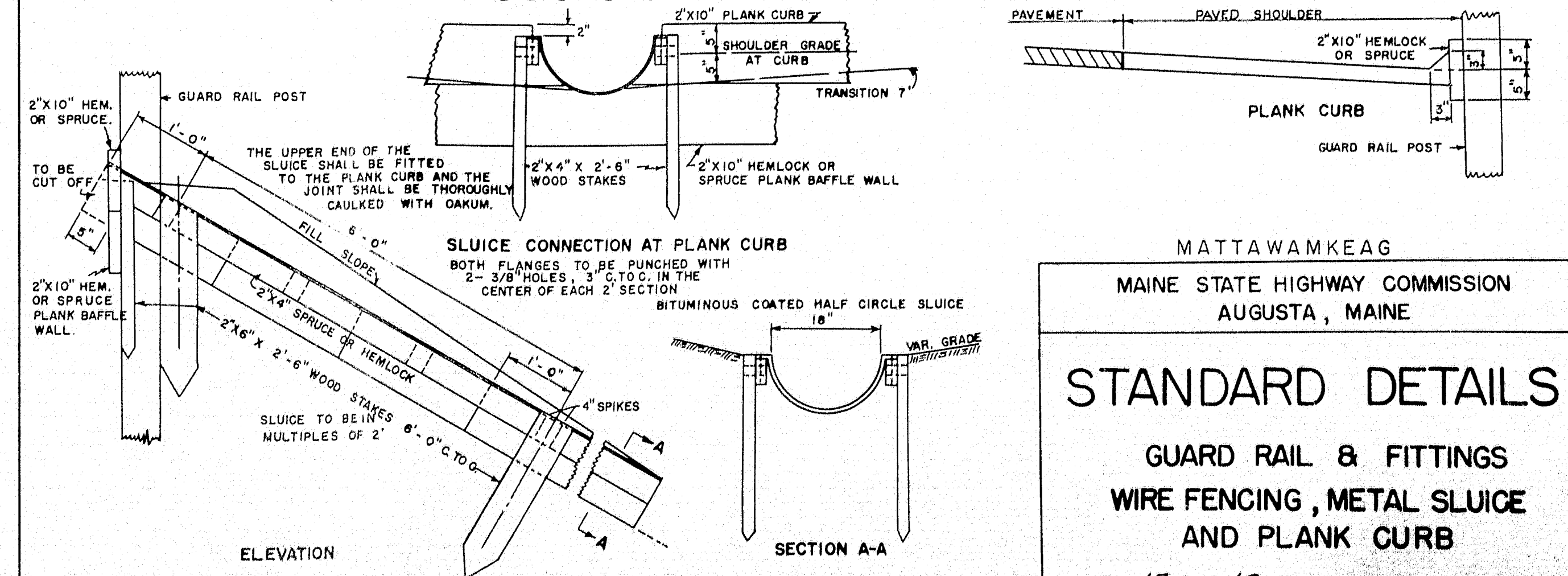


GUARD RAIL TYPE "H"

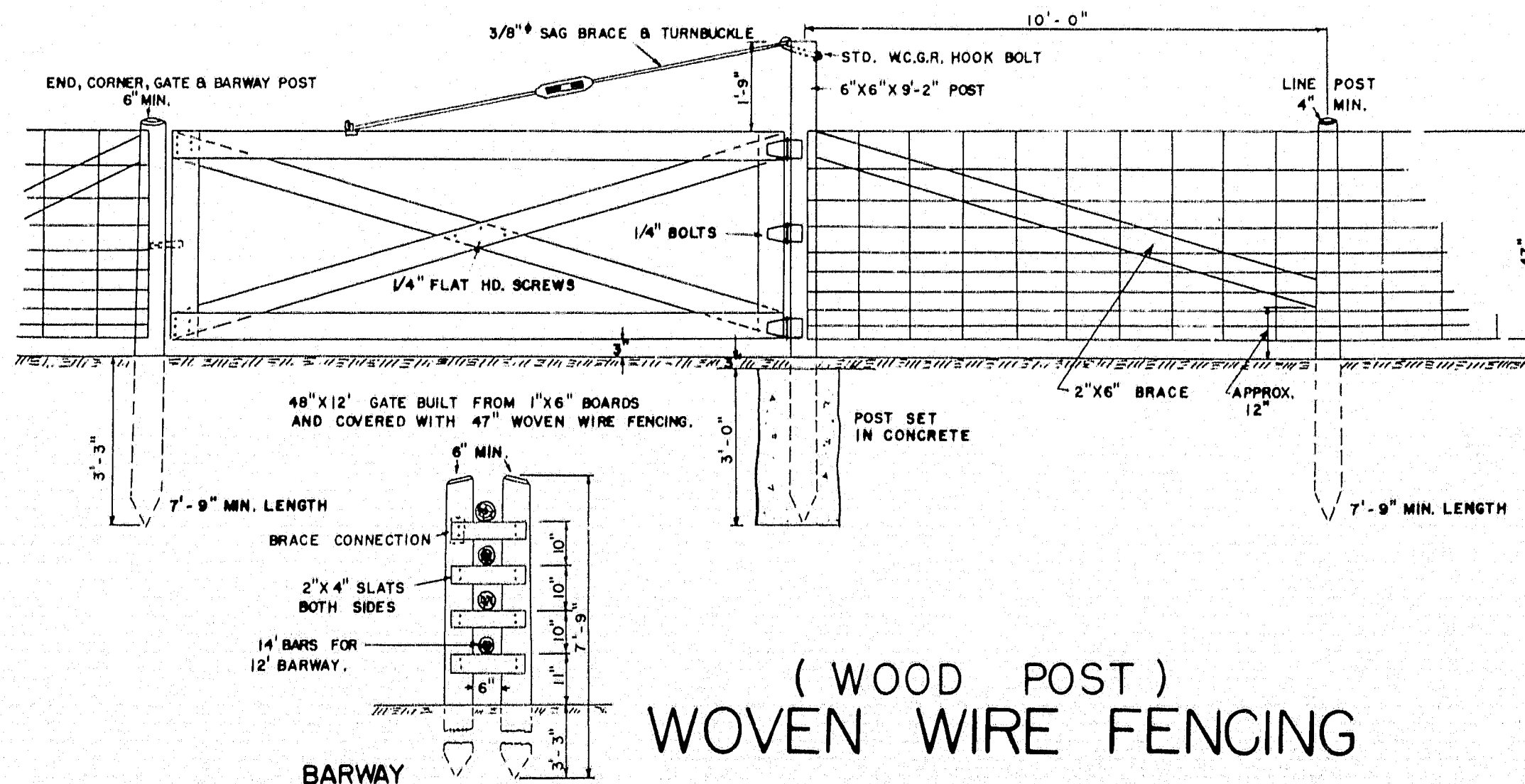


STANDARD FITTINGS
ALL FITTINGS TO BE GALVANIZED

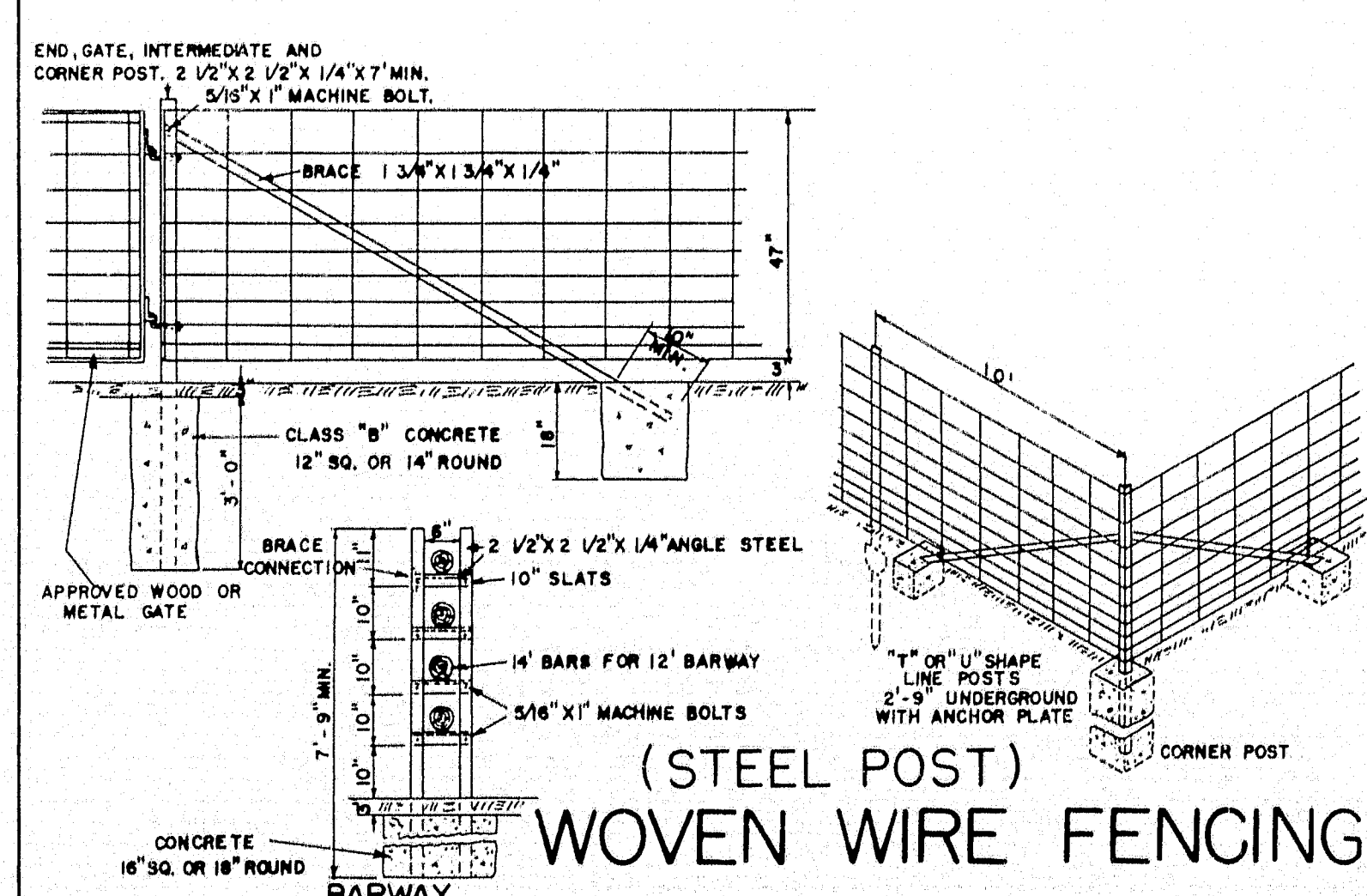
METAL SLUICE AND PLANK CURB



MATTAWAMKEAG
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE
STANDARD DETAILS
GUARD RAIL & FITTINGS
WIRE FENCING, METAL SLUICE
AND PLANK CURB
SHEET 15 OF 16
SEPT. 1961

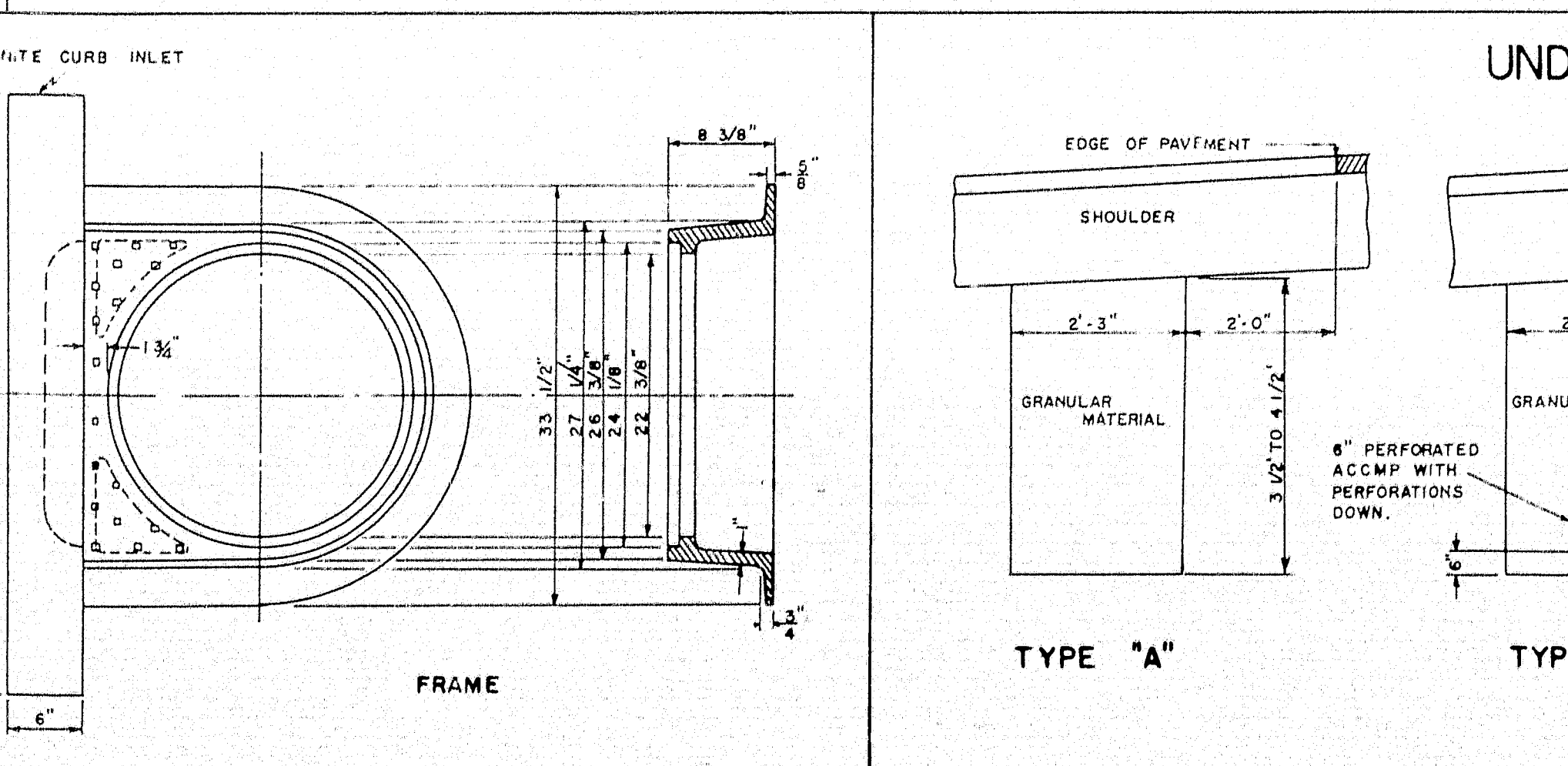
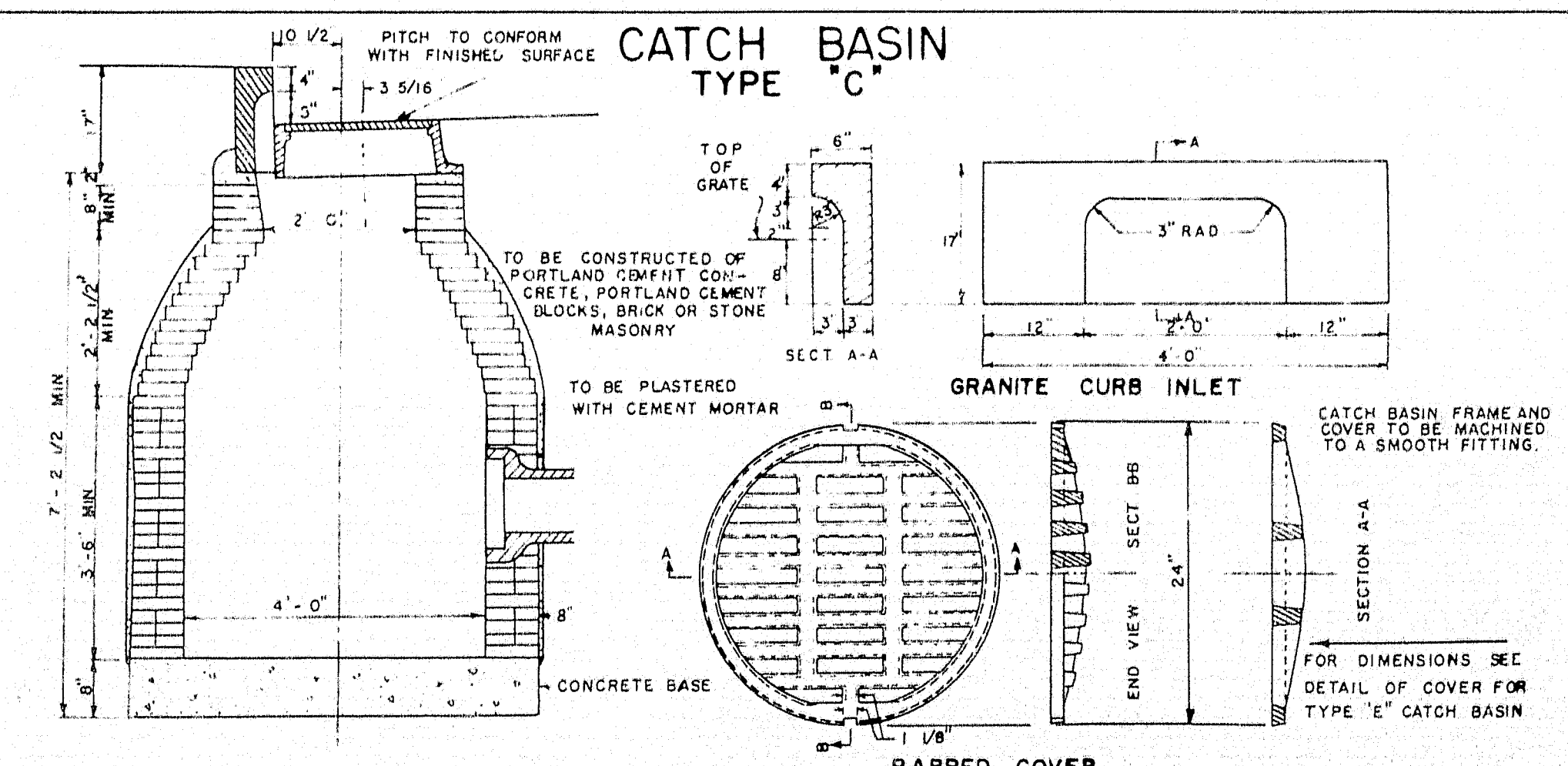
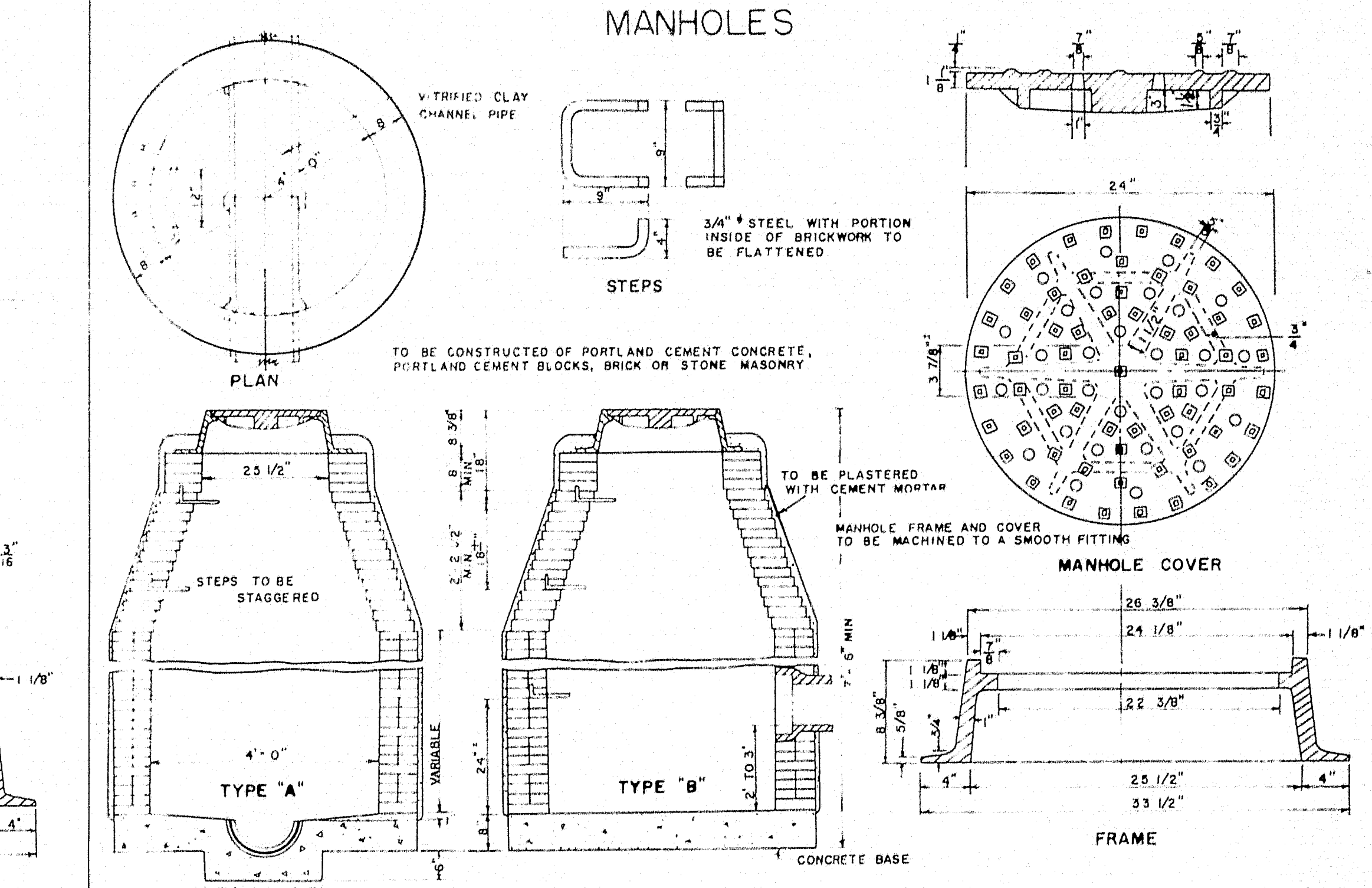
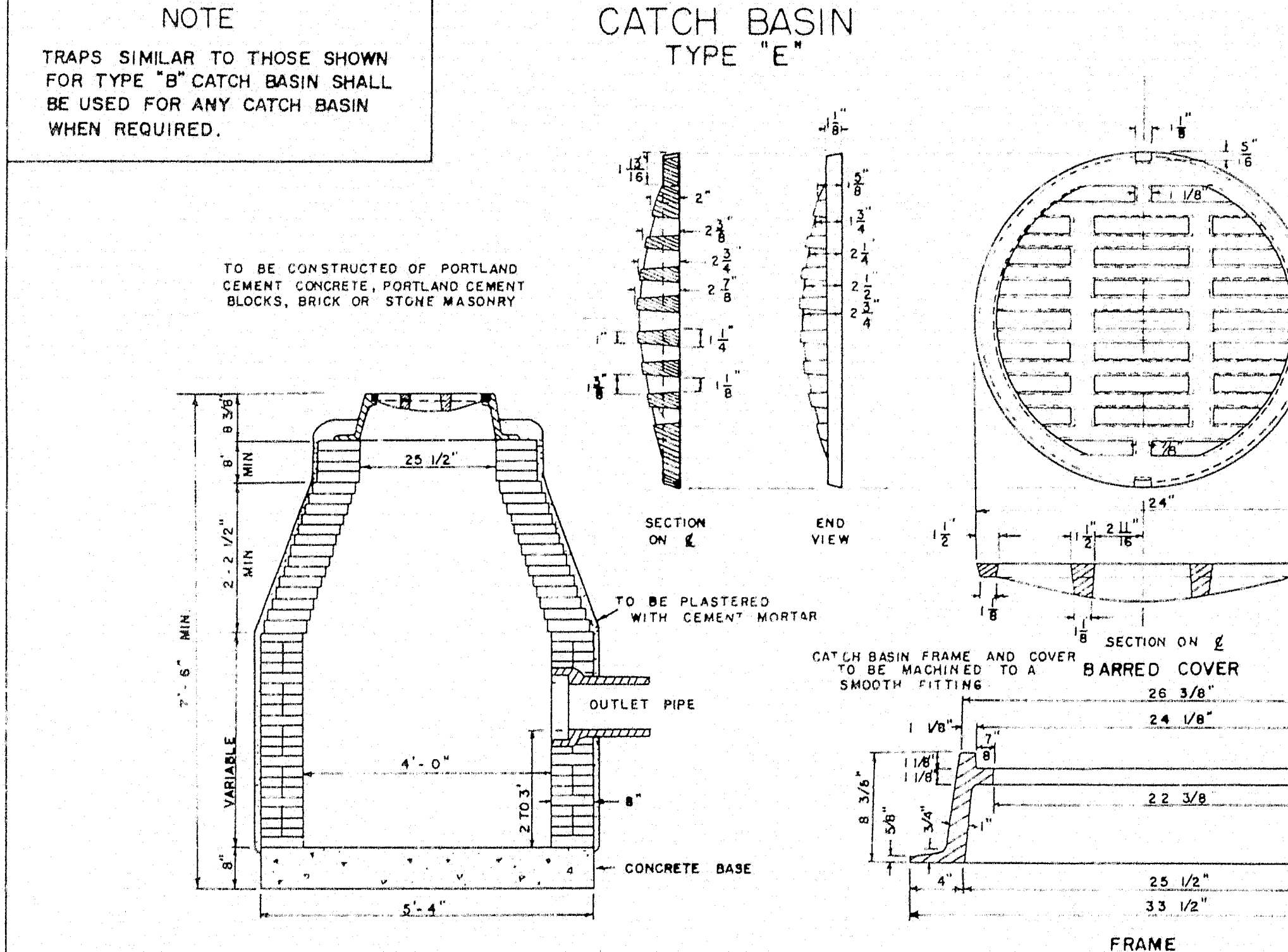
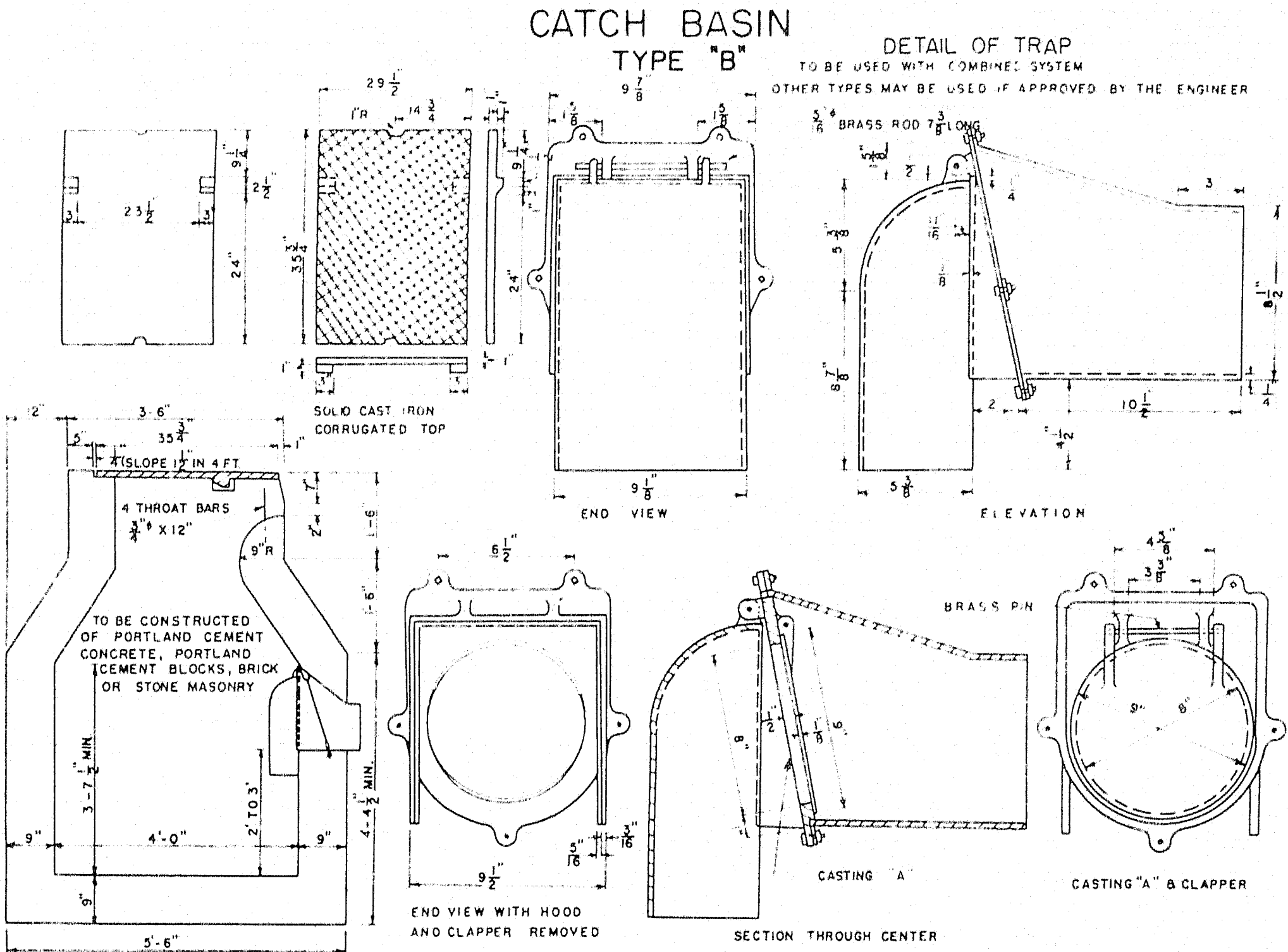
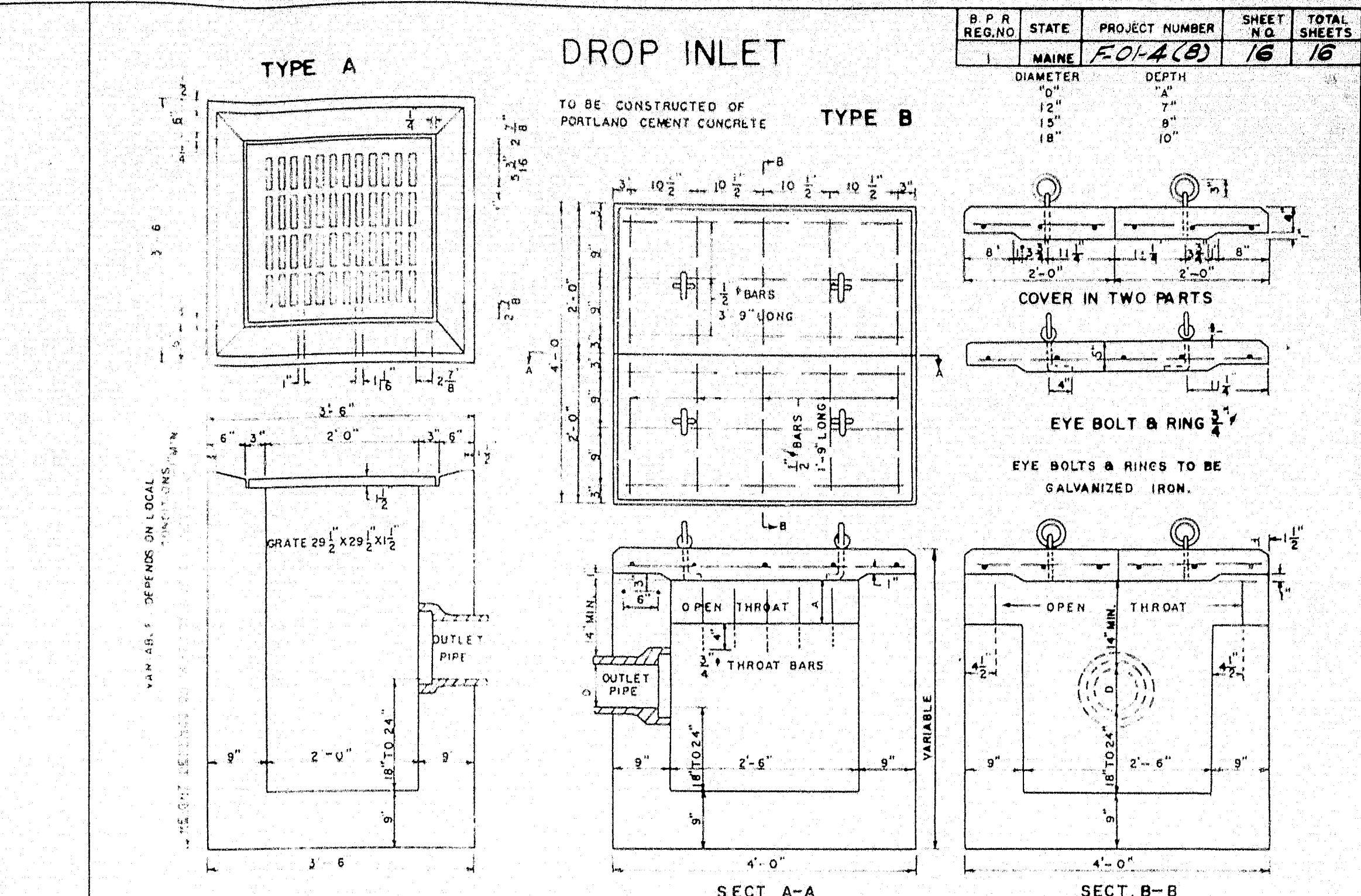
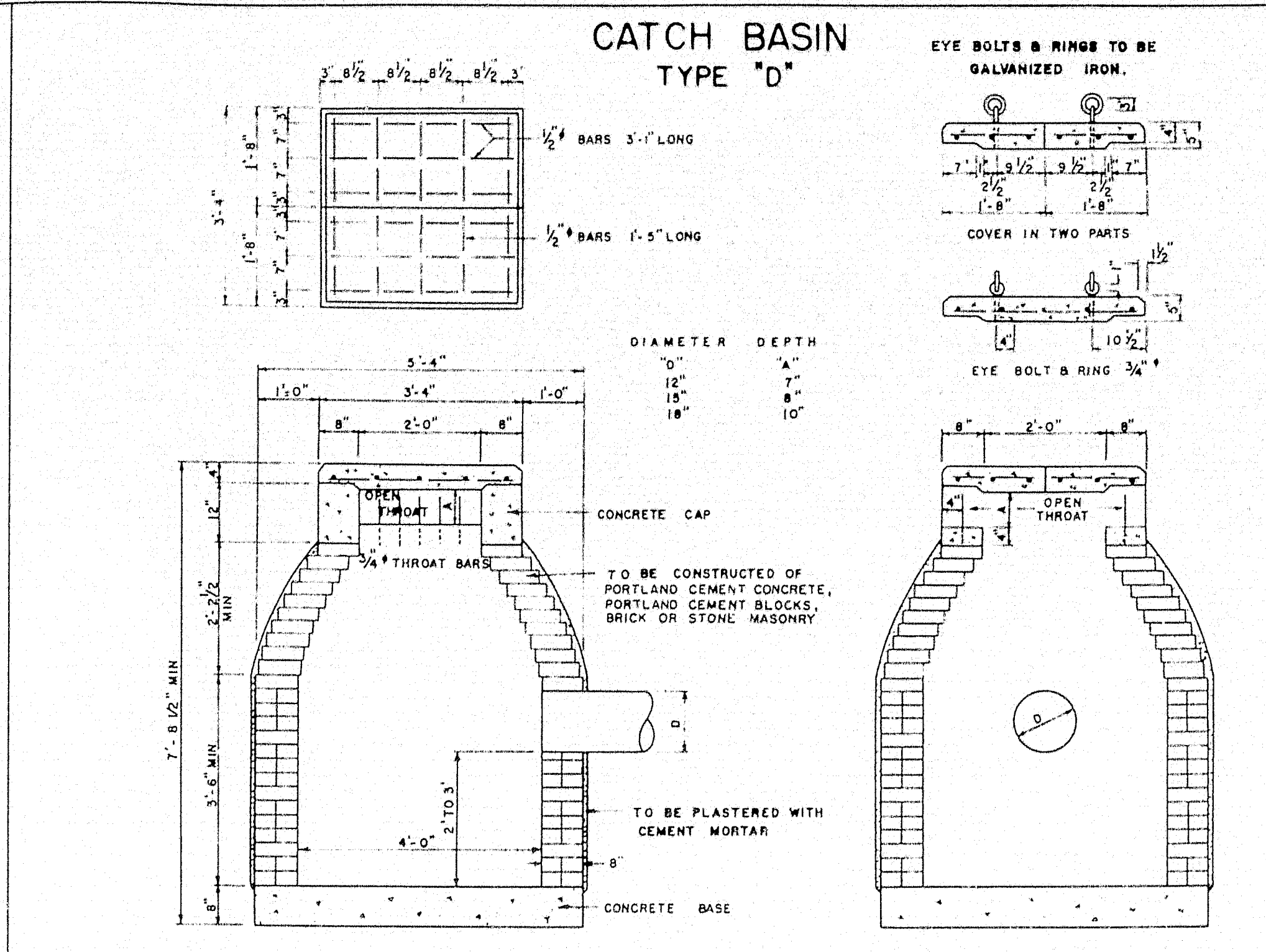
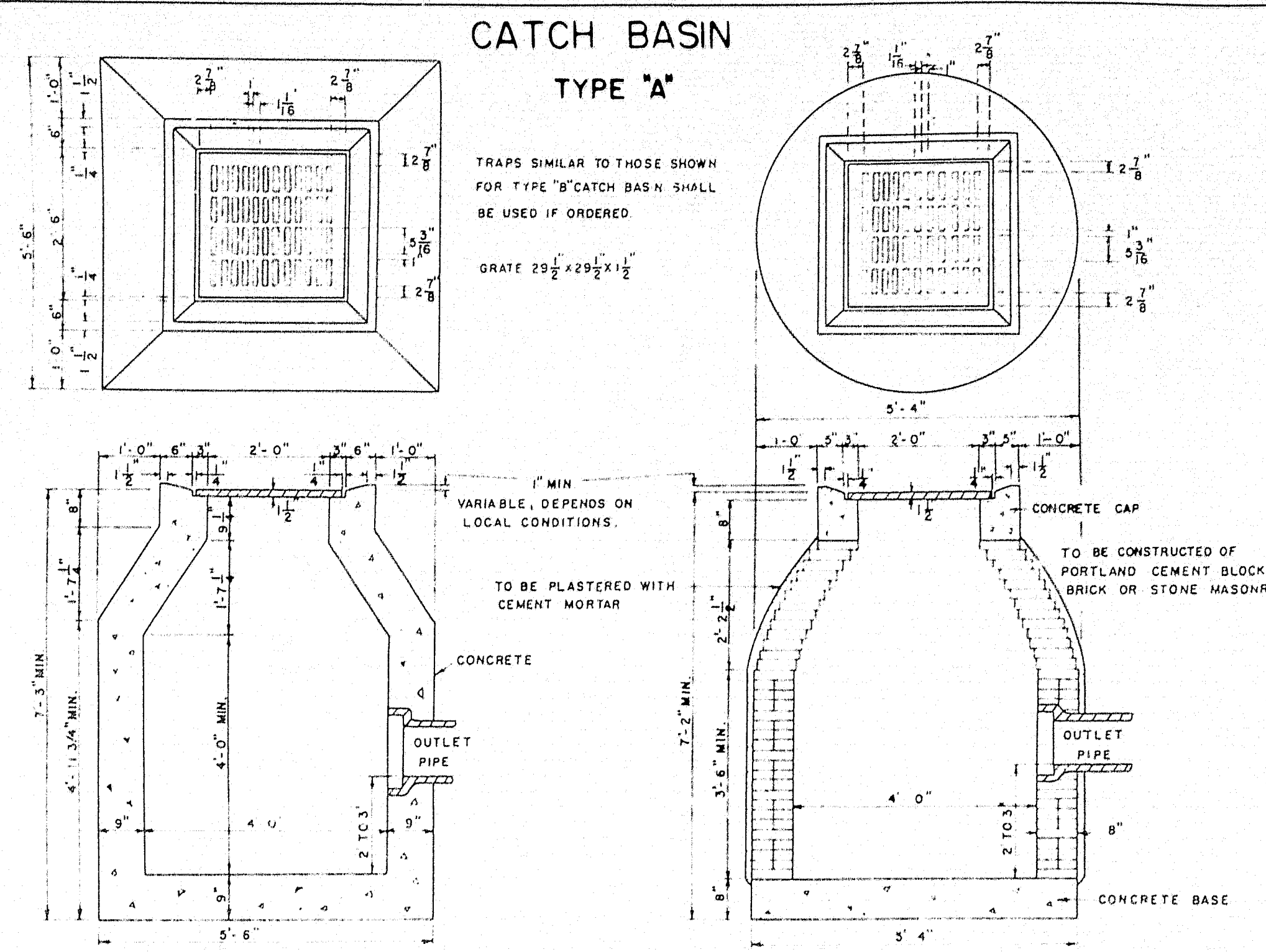


(WOOD POST)
WOVEN WIRE FENCING



(STEEL POST)
WOVEN WIRE FENCING

D.P.R.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	FOH-4(B)	16	16



NOTE:

ALL CATCH BASINS AND MANHOLES CONSTRUCTED OF PORTLAND CEMENT BLOCKS, BRICK OR STONE MASONRY SHALL BE CYLINDRICAL IN SHAPE.

MATTAWAMKEAG

MAINE STATE HIGHWAY COMMISSION

AUGUSTA, MAINE

STANDARD DETAILS

CATCH BASINS, MANHOLES, DROP INLETS AND UNDERDRAINS

SHEET 16 OF 16

SEPT.

