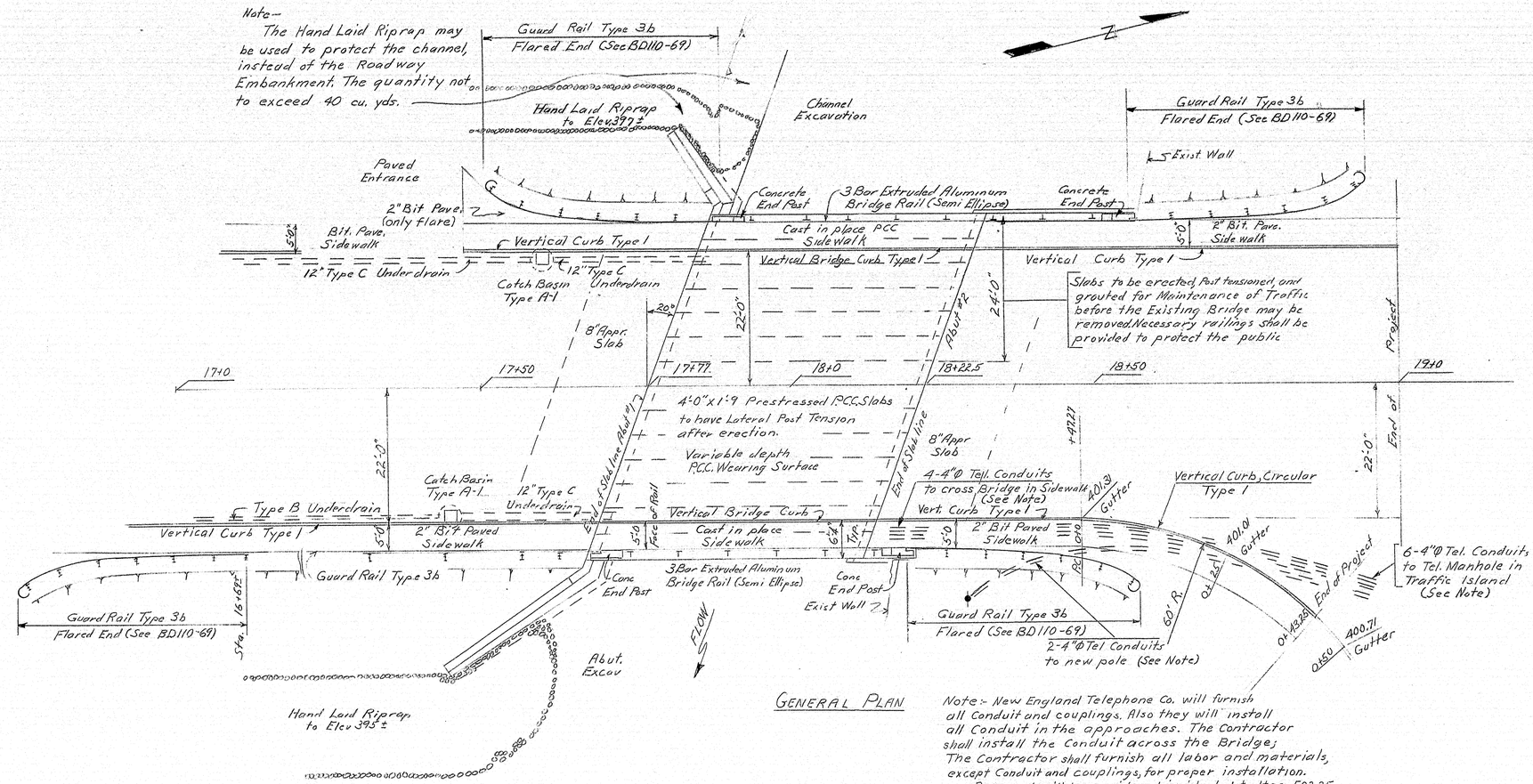
N. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			

Note—
The Hand Laid Riprap may be used to protect the channel, instead of the Roadway Embankment. The quantity not to exceed 40 cu. yds.

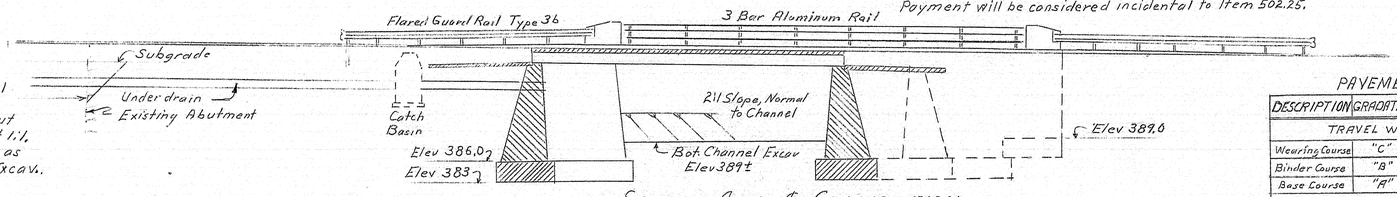


GENERAL PLAN

Note:- New England Telephone Co. will furnish all Conduit and couplings. Also they will install all Conduit in the approaches. The Contractor shall install the Conduit across the Bridge; The Contractor shall furnish all labor and materials, except Conduit and couplings, for proper installation. Payment will be considered incidental to Item 502.25.

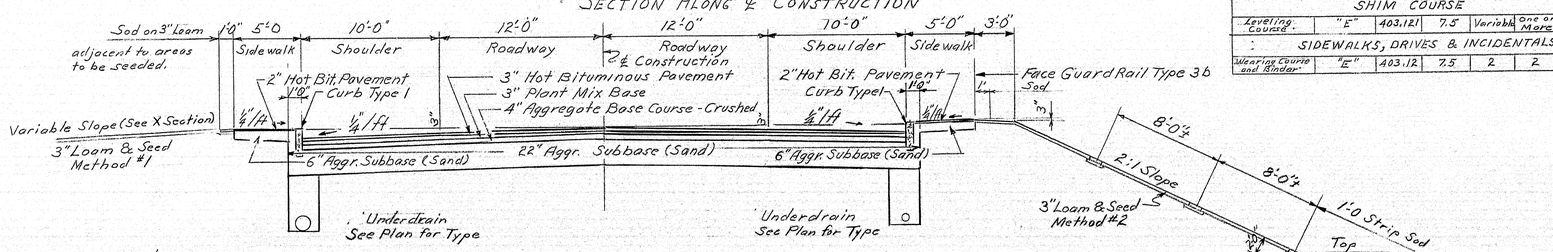
INDEX OF SHEETS

DESCRIPTION		NO.
General Plan		1
Quantities		2
Foundations		3
Right of Way		4
Survey (South Approach)		5
Survey (Bridge & North Approach		6
Cross Section (Sta 11+0 to 12+0)		7
do do (Sta 12+17 to 13+0)		8
do do (Sta 13+13 to 15+0		9
do do (Sta 15+28 to 16+20)		10
do do (Sta 16+50 to 17+30)		11
do do (Sta 17+61 to 18+81)		12
Abutment No. 1 Plan & Sections		13
do do Elevation & Details		14
Abutment No. 2 Plan		15
do do Details		16
Superstructure Slabs		17
do Details		18
Reinforcing Steel, Appr. Slabs, Bridge Rail		19
Standard Detail Sheets		
Aluminum Bridge Rail	BD 106	69
Guard Rail, Type 3b (Flared Ends)	BD 110	69
Traffic Control Devices	BD 111	69
Catch Basins & Manholes	Nov. 1968	1
Underdrain	Nov. 1968	2
Curb	Nov. 1968	3
Guard Rails	Nov. 1968	6
Guard Rail (Offset Bracket)	Nov 1968	9
Barricades -- Monuments	Nov 1968	11
Field Offices	Nov 1968	12



Remove Abuts Bridge No. 1 and Retaining Walls to Elev. 395± and cut slope to subgrade at 1:1. Payment to be made as Item 203.20 Common Excav..

SECTION ALONG ℄ CONSTRUCTION



TYPICAL SECTION WITHOUT GUARD RAIL

TYPICAL SECTION WITH GUARD RAIL

NOTE: All embankment shall be constructed with moisture & density control as specified in subsection 203.12.

PAVEMENT DESIGN INFORMATION

DESCRIPTION	GRADATION	ITEM No.	% MIX BITUMEN	THICKNESS	No. of LAYERS	NOTES
TRAVEL WAY, SHOULDERS & APPROACHES						
Wearing Course	"C"	403.080	7.0	1½"	1	1,2
Binder Course	"B"	403.070	6.0	1½"	1	1,2
Base Course	"A"	301.080	5.5	3"	2	1,2,5
SHIM COURSE						
Leveling Course	"E"	403.121	7.5	Variable	One or More	1,2,4
SIDEWALKS, DRIVES & INCIDENTALS						
Wearing Course and Binder	"E"	403.12	7.5	2	2	1,2,3,4

COMPLEMENTARY NOTES

1. The bituminous binder material for the mixtures shall be Penetration Grade (85-100) Asphalt Cement. The asphalt cement will be paid for separately.
2. The asphalt contents are to serve as a guide only and are not specifications.
3. Mixtures meeting the aggregate gradation of "B" or "C" above may be used for the bottom layer with payment to be made under Item 403.12
4. The density requirements are waived.
5. The course shall be placed in two layers of approximately equal thickness. In cool weather or when so directed by the Engineer the course shall be placed in one layer.

OTHER BITUMINOUS ITEM

TACK COAT: In the event paving operations are extended into the following spring, a tack coat of Emulsified Asphalt, Type AE-90, Item 410.15 shall be applied to the existing course prior to placing a new course, if so directed by the Engineer.

DESIGN- PL
TRACE-
CHECK- CPN

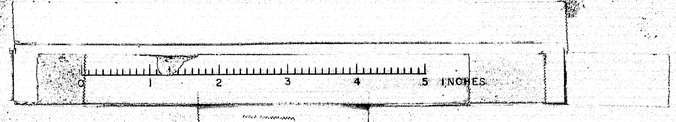
BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PONDICHERRY BRIDGE
OVER
STEVENS BROOK
IN THE TOWN OF
BRIDGTON
CUMBERLAND COUNTY
GENERAL PLAN

SHEET 1 OF 19 AUGUSTA, MAINE

103-174



B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			

ENGINEERS ESTIMATE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
Removing single trees, 9" to 24", tops only	Each	5
Removing single trees, over 24" to 48", tops only	Each	5
Removing single trees, over 48", tops only	Each	1
Removing stumps, 9" to 24"	Each	6
Removing stumps, over 24" to 48"	Each	6
Removing stumps, over 48"	Each	1
Removal existing superstructure, Bridge No.1 (Property of Contractor)	L.S.	L.S.
Removal existing superstructure, Bridge No.2 (Property of Contractor)	L.S.	L.S.
Removal of existing structural concrete	C.Y.	120
Removal of existing railings (Property of Contractor)	L.F.	290
Common excavation	C.Y.	2800
Common borrow	C.Y.	700
Overhaul (in place measure)	Yd.M.	5000
Structural earth excavation - Drainage and minor structures	C.Y.	300
Structural earth excavation - Abutments & Retaining walls	C.Y.	1140
Structural earth excavation - Channel	C.Y.	90
Asphalt cement, Base course	Tons	30
Plant mix bituminous base course - Grading A	Tons	520
Aggregate base course - crushed	C.Y.	390
Aggregate subbase course - sand	C.Y.	2050
Hot bituminous pavement - Grading B	Tons	300
Hot bituminous pavement - Grading C	Tons	220
Hot bituminous pavement - Grading E (Sidewalks, Drives etc...)	Tons	85
Hot bituminous pavement - Grading E (Shimming)	Tons	7
Asphalt cement, hot bituminous surface pavement	Tons	40
Emulsified asphalt, applied	Gal.	300
Structural concrete, Abutments & Retaining walls	C.Y.	565
Structural concrete, Superstructure slabs (22 c.y.)	L.S.	L.S.
Structural concrete, approach slabs (32.72 c.y.)	L.S.	L.S.
Structural concrete, wearing surface on bridges (31c.y.)	L.S.	L.S.
Prestressed structural concrete slab	L.S.	L.S.
Reinforcing steel, fabricated & delivered	Lbs.	14,600
Reinforcing steel, Placing	Lbs.	14,600
Bridge railing,	L.F.	100
Special detour, pedestrian traffic only	L.S.	L.S.
Cofferdam, abutment No.1	L.S.	L.S.
Cofferdam, abutment No2	L.S.	L.S.
French drains	C.Y.	95
Epoxy resin surface sealant	S.Y.	30
Protective coating for concrete surfaces	S.Y.	310
Catch basin, type A 1	Each	4
6" underdrain, type B	L.F.	390
12" underdrain, type C	L.F.	475
Guard rail, type 3b, single rail	L.F.	200
Guard rail, type 3b circular (Greater than 15' radius)	L.F.	60
Terminal ends - single rail	Each	4
Vertical curb, type 1	L.F.	935
Vertical curb - circular, type 1	L.F.	120
Vertical bridge curb, type 1	L.F.	91

DESCRIPTION	UNIT	QUANTITY
Terminal curb type 1	Each	17
Plain Riprap	C.Y.	15
Hand laid Riprap.	C.Y.	200
Stone blanket	C.Y.	70
Loam	C.Y.	75
Sodding	S.Y.	100
Seeding, method No. 1	Unit	4
Seeding, method No. 2	Unit	4
Right of way monuments	Each	5
Warning Lights	Group	1
Portable barricade with flashing lights	Each	2
Sprinkling	M.G.	25
Field office, type B	Each	1
Testing Facilities, Soils	L.S.	L.S.
" , Bituminous Mixes	L.S.	L.S.
" , Bituminous Liquids and cements	L.S.	L.S.

DESIGN–
TRACE– Dennis Dubois
CHECK– F.S.M.

BRIDGE NO.
SURVEY–
PLOT–

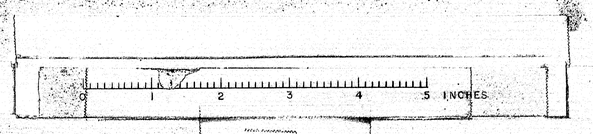
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PONDICHERRY BRIDGE
OVER
STEVENS BROOK
IN THE TOWN OF
BRIDGTON
CUMBERLAND COUNTY

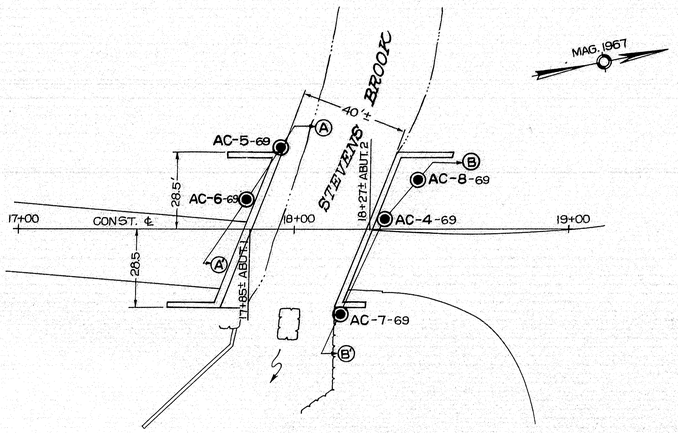
ESTIMATE OF QUANTITIES

SHEET 2 OF 19 AUGUSTA, MAINE JUNE 1969

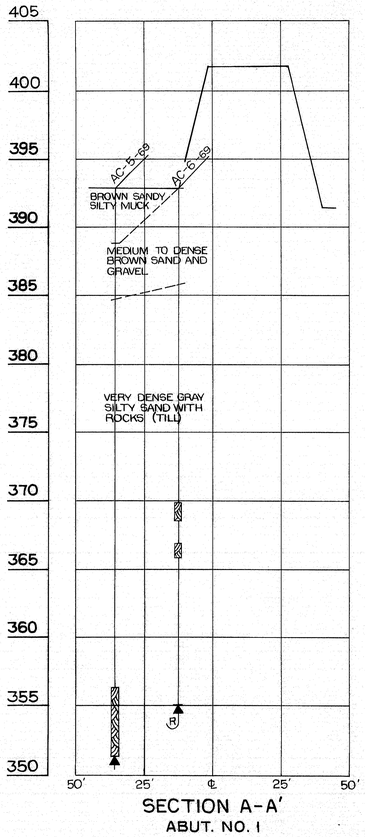
103-175



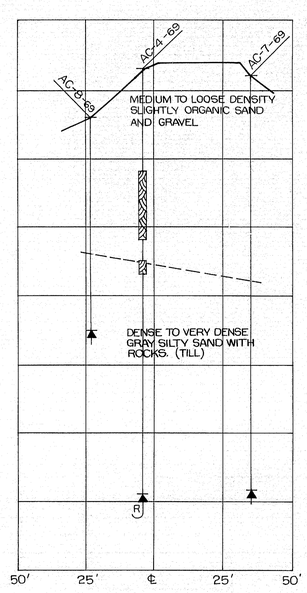
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			



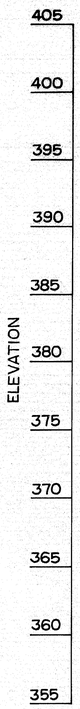
PLAN
SCALE: 1"= 25'



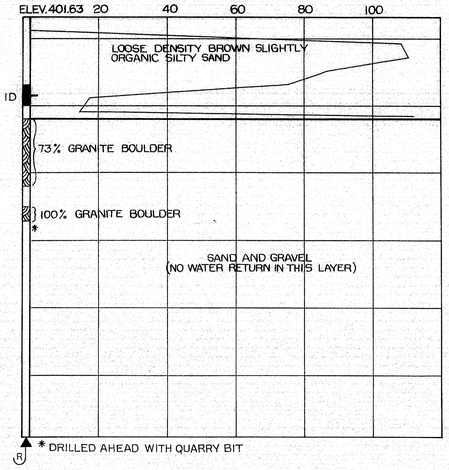
SECTION A-A'
ABUT. NO. 1



SECTION B-B'
ABUT. NO. 2



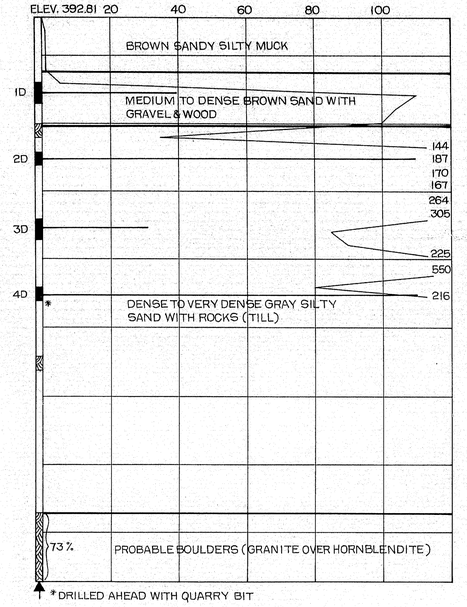
BORING AC-4-69
STA. 18+33 3.5' LT.



* DRILLED AHEAD WITH QUARRY BIT

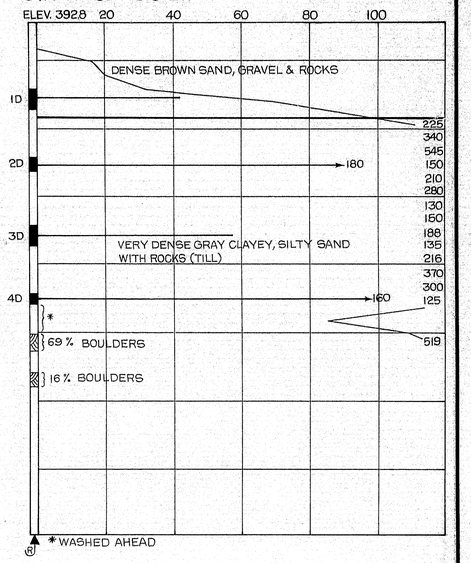
2½" CASINGS - ALL BORINGS

BORING AC-5-69
STA. 17+94 30' LT.



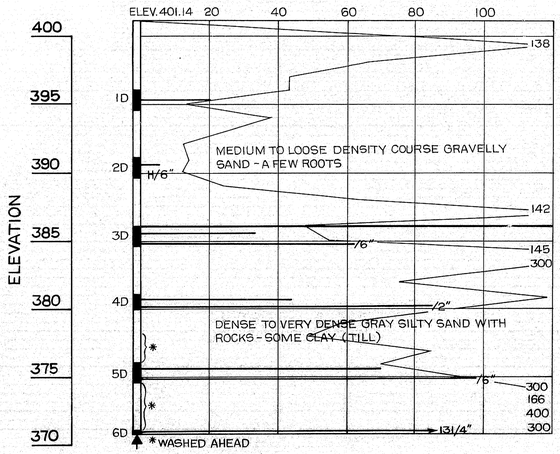
* DRILLED AHEAD WITH QUARRY BIT

BORING AC-6-69
STA. 17+82 10.5' LT.



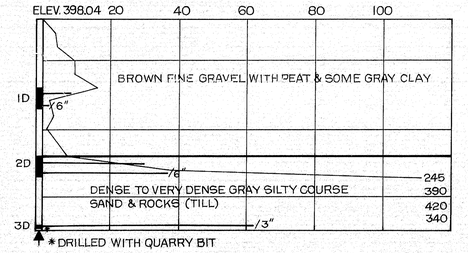
* WASHED AHEAD

BORING AC-7-69
STA. 18+18 32' RT.



* WASHED AHEAD

BORING AC-8-69
STA. 18+44 18' LT.



* DRILLED WITH QUARRY BIT

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
- ID — S & H SAMPLER # 1290'S
- NUMBER OF BLOWS REQUIRED TO DRIVE SPOON OR TUBING ONE FOOT WITH 350 FT. LBS. OF ENERGY PER BLOW
- H — SAMPLING SPOON OR SEAMLESS TUBING DRIVEN BY STATIC WEIGHT OF DRILL RODS AND HAMMER
- BOTTOM OF BORING (MAY NOT BE BOTTOM OF SOIL STRATA)
- REFUSAL OF DRILL RODS OR CASING (MAY NOT BE LEDGE)
- R — LOCATIONS CORED BY DIAMOND BIT AND PER CENT RECOVERY OF ROCK

PLANS	BY	DATE
DESIGN - DETAILED	Sails	Dix
CHECKED		
REVISIONS		
FIELD CHANGES		

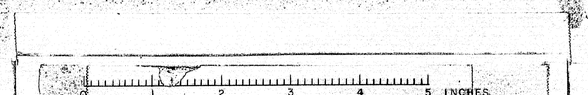
STATE HIGHWAY COMMISSION

PONDICHERRY BRIDGE
OVER
STEVENS BROOK
IN THE TOWN OF
BRIDGTON
CUMBERLAND COUNTY
FOUNDATION SURVEY

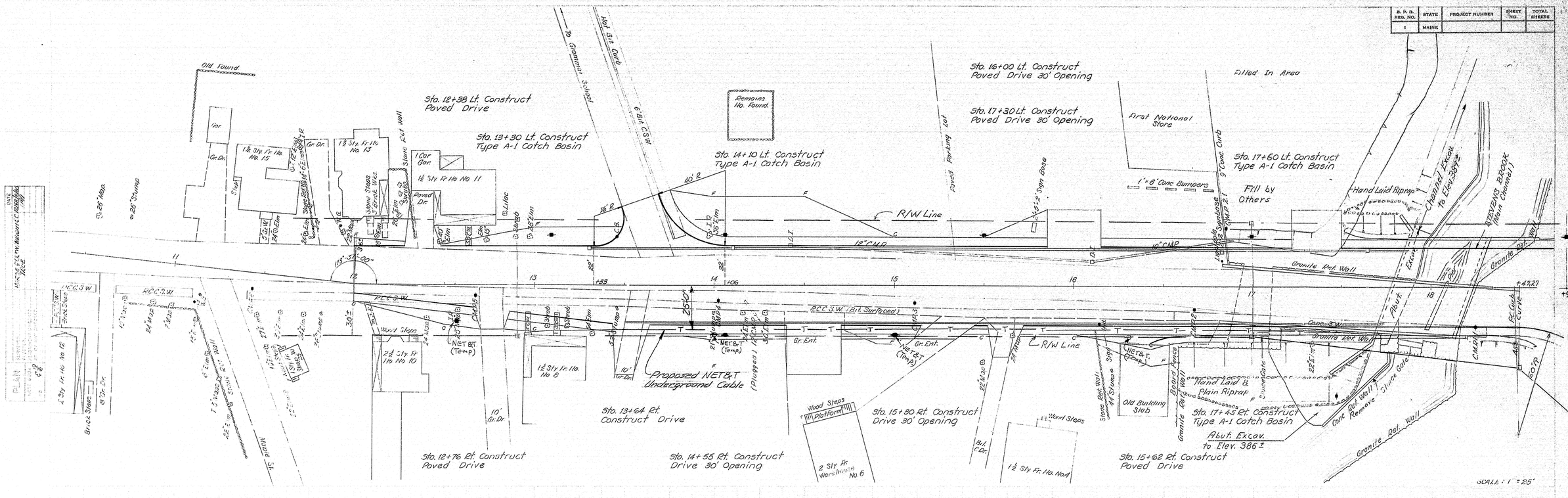
SHEET 3 OF 19 AUGUSTA, MAINE JUNE 1969

103-176

JANUARY 1968



B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			



Install R/W Monuments

12+90	37' Lt
12+90	29' Rt
17+00	38' Lt
17+00	28' Rt
18+50	45' Rt

Transition

Begin Project

13+50

Guard Rail Type 3b
16+69± Rt to 17+69± Rt

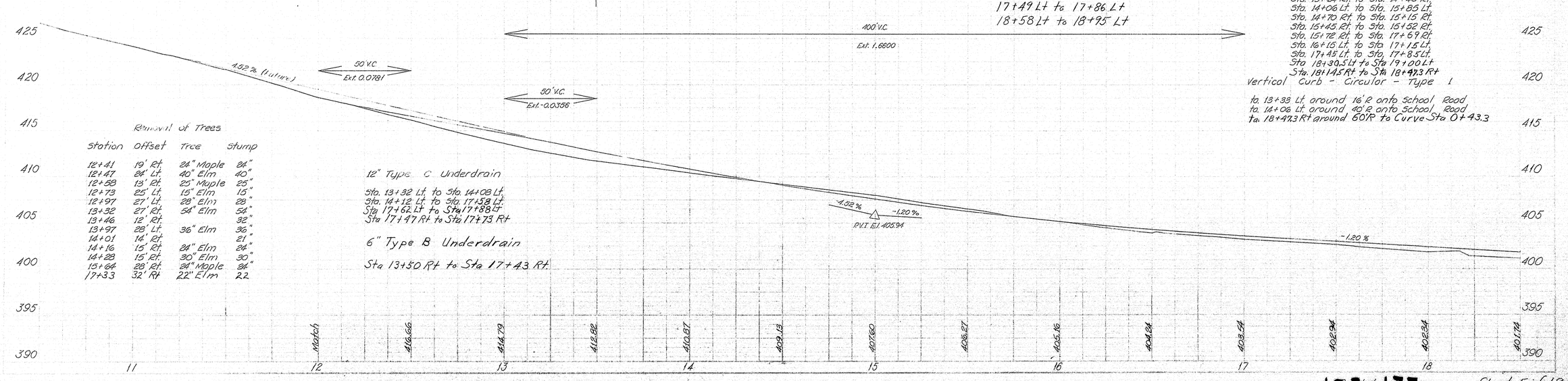
Guard Rail Type 3b (Flared Ends)
(See BD 110-69)
16+32 Rt to 16+69 Rt
18+22 Rt to 18+59 Rt
17+49 Lt to 17+86 Lt
18+58 Lt to 18+95 Lt

Vertical Curb - Type 1

Sta. 12+00 Lt. to Sta. 12+28 Lt.
Sta. 12+00 Rt. to Sta. 12+66 Rt.
Sta. 12+48 Lt. to Sta. 13+33 Lt.
Sta. 12+86 Rt. to Sta. 13+44 Rt.
Sta. 13+64 Rt. to Sta. 14+40 Rt.
Sta. 14+06 Lt. to Sta. 15+85 Lt.
Sta. 14+70 Rt. to Sta. 15+15 Rt.
Sta. 15+45 Rt. to Sta. 15+52 Rt.
Sta. 15+72 Rt. to Sta. 17+69 Rt.
Sta. 16+15 Lt. to Sta. 17+15 Lt.
Sta. 17+45 Lt. to Sta. 17+85 Lt.
Sta 18+30.5 Lt to Sta 19+00 Lt
Sta. 18+14.5 Rt to Sta 18+49.3 Rt

Vertical Curb - Circular - Type 1

to 13+33 Lt. around 16' R onto School Road
to 14+06 Lt. around 40' R onto School Road
to 18+49.3 Rt around 60' R to Curve Sta 0+43.3



Removal of Trees

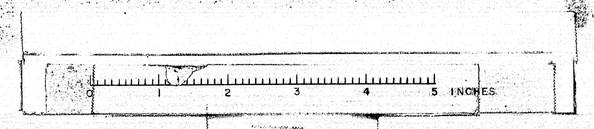
Station	Offset	Tree	Stump
12+41	19' Rt.	24" Maple	24"
12+47	24' Lt.	40" Elm	40"
12+58	13' Rt.	25" Maple	25"
12+73	25' Lt.	15" Elm	15"
12+97	27' Lt.	28" Elm	28"
13+32	27' Rt.	54" Elm	54"
13+46	12' Rt.		32"
13+97	28' Lt.	36" Elm	36"
14+01	14' Rt.		21"
14+16	15' Rt.	24" Elm	24"
14+28	15' Rt.	30" Elm	30"
13+64	28' Rt.	28" Maple	28"
17+33	32' Rt	22" Elm	22

12" Type C Underdrain

Sta. 13+32 Lt. to Sta. 14+08 Lt.
Sta. 14+12 Lt. to Sta. 17+38 Lt.
Sta 17+62 Lt to Sta 17+89 Lt
Sta 17+47 Rt to Sta 17+73 Rt

6" Type B Underdrain

Sta 13+50 Rt to Sta 17+43 Rt.



103-177 Survey Sheet 5 of 19

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			

GENERAL SURVEY NOTES

Substructure – Dry laid Granite Abutments, concrete capped under Structures, good condition. Bridge #2 concrete pier at midspan, fair condition.

Superstructure – Bridge No1, Concrete Slab, bituminous paved roadway, with Concrete curb U.S. and Concrete sidewalk D.S., good condition. Curb U.S. deteriorated. Bridge No.2 two span Concrete slab bituminous paved roadway same as Bridge No.1. Concrete sidewalk D.S. and Concrete curb U.S. between bridges fair condition. Curb U.S. deteriorated.

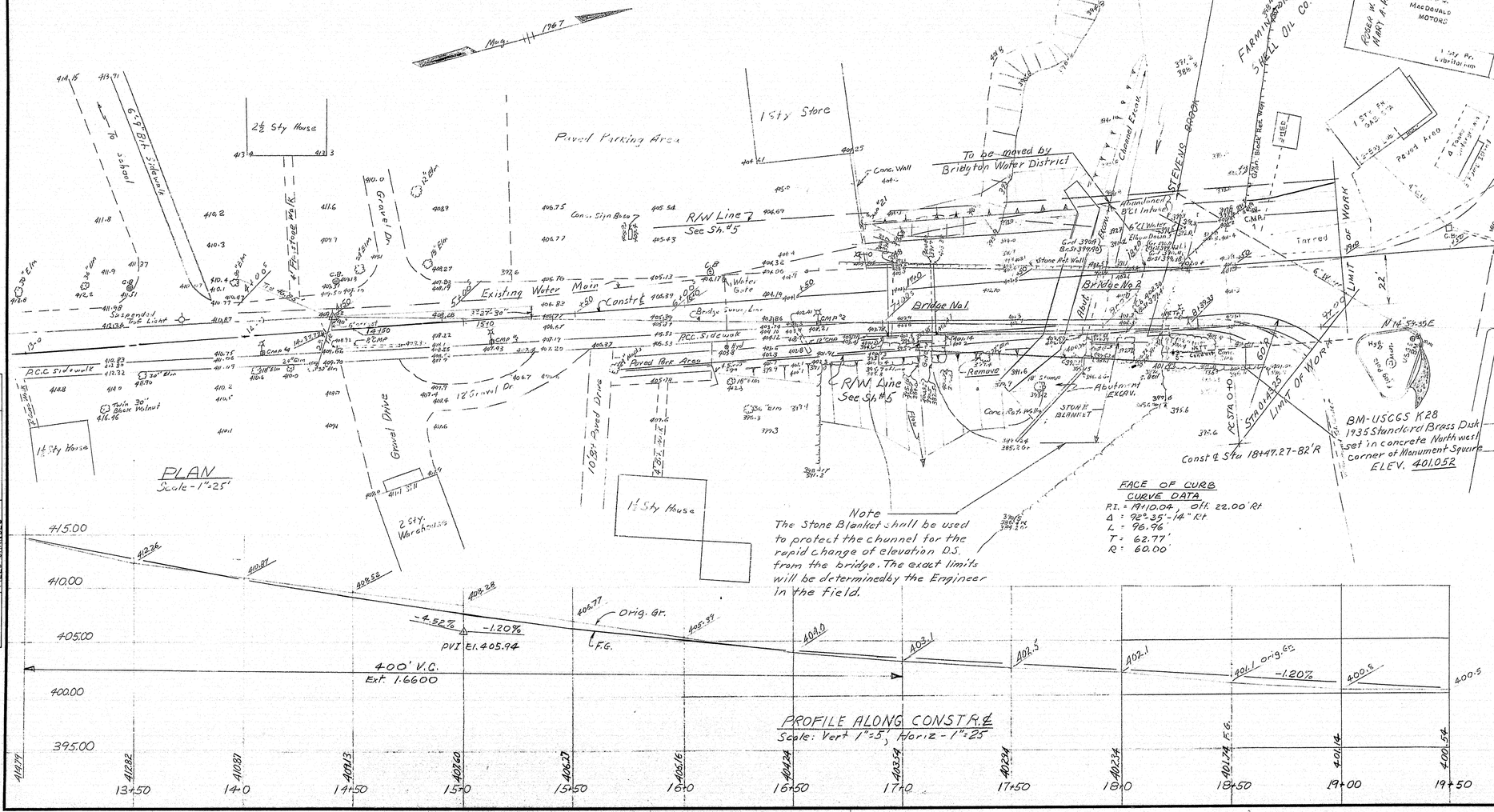
Approaches – Bituminous paved, good condition. Concrete sidewalk right side south approach, good condition

Utilities – NET&T Co. – CMP Co. on joint poles, and Bridgton Water District.

CONSTRUCTION NOTES

1. Removal of concrete rails will be paid as Item 202.14 Removal of Existing Railings.
2. Removal of superstructure slab, Bridge No 1 will be paid as Item 202.101 Removal of Existing Superstructure (Bridge No.1)
3. Removal of superstructure slab, Bridge No.2 will be paid as Item 202.102 Removal of Existing Superstructure (Bridge No.2)
4. Removal of Concrete Caps for Abutments, Pier for Bridge No 2, Concrete Retaining Wall D.S. Bridge No.2, and sidewalk and curbs between the bridges will be paid as Item 202.12, Removal of Existing Structural Concrete. Note the concrete sidewalk or objects encountered south of Bridge No 1 will not be included in this item but will be included in the respective items of work when encountered.
5. Suitable stone and concrete rubble may be salvaged from Abutments and Retaining Wall Excavation for use as Stone Blanket.

NOTE:
Large Diameter pipe in this area could cause Flooding of New Parking Area at high stages, should plugged end become unplugged. Property damage caused thereby shall be the responsibility of the Contractor.



DESIGN – DETAILED
CHECKED
REVISIONS
FIELD CHANGES
BY
DATE
PLANS

DESIGN- TRACE- TAM
CHECK- COH 5-69
BRIDGE NO. 2 & 3
SURVEY F.S.
PLOT- C.K.B

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
PONDICHERRY BRIDGE
OVER
STEVENS BROOK
IN THE TOWN OF
BRIDGTON
CUMBERLAND COUNTY
SURVEY
SHEET 6 OF 19 AUGUSTA, MAINE AUG. 1967

JANUARY 1968

203-1 2080

103-178

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
	SURVEYED	Merge. & Snow	12/66
	PLOTTED	True	12/66
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

W. P. R. REC. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			

12+00 5' Acc. Walk & Wood Steps Sta. Ant. Rt. 415

Steps

Sill

walk

S.W.

℄ Survey

℄ Const.

10'±

10

S.W.

12+00 MATCH EXISTING ADJ.

415

26

Sill

38

8' Dirt Drive Lt. 416

+81

S.W.

+50 415

2 Cc. Walk Lt. 415

+48

Maple Sr. Skwa. Ant. Rt. (Tarred 15') 420

+21

10' Gravel Drive Lt. 420

+16

S.W.

Wall

420

11+00

Sta. 11+00 to Sta. 12+00

103-179 Gidgton Sheet 7 of 19

0 1 2 3 4 5 INCHES

R.P.D. REQ. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			

103-180 Brigton Sheet 8 of 19

Sta 12+17 to Sta 13+00

℄

12+17	4' PCC Walk Lt		415
	Walk	℄	
	Steps		

Sta. 12+38 Lt Construct Paved Drive

415.14			
	℄ Const	℄ Survey	
	75'±		
		℄	
			-10%
438	9' Tiered Drive Lt		415

416.66			
	℄ Const	℄ Survey	
	65'±		
			S.W.
430	40' Elm Lt		415
			Sill

414.79			
	Const ℄	℄ Survey	
	35'±		
			S.W.
13+00			410

Sta 12+96 Match Back of Sidewalk to Leave Existing Concrete Walk as a Step.

12+96	3' PCC Walk & Steps Rt		410
			S.W.

415.57			
	℄ Const	℄ Survey	
	62'±		
			S.W.
479	10' Paved Drive Rt		410

Sta 12+76 Rt Construct Paved Drive

25 — Revised Slope Limit 7/18/69

Level 14'±

463	4' PCC Walk Lt		410
		℄	

414.79			
	Const ℄	℄ Survey	
	35'±		
			S.W.
13+00			410

ORIGINAL SURVEY	SURVEYED	Morse & Crew	DATE 12/68
	PLOTTED	Tina	12/68
	TEMPLATE		
NOTE BOOK	AREAS		
NO	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
NOTE BOOK	AREAS		
NO	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
	SURVEYED	Morse & Crew	12/28
	PLOTTED	Trus	12/63
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

℄

407.60

28 — x — ℄ — x — S.W. — Drive — 30

Sta. 15+30 Rt. Construct Drive 30' Opening

15+00 — 400

409.13

30 — x — ℄ — x — S.W. — +1% — 31 — 30

+50 — 20' Dirt Ent. Rt. — 405

Sta. 14+55 Rt. Construct Drive 30' Opening

Sta. 14+02 Lt. to Sta. 17+28 Lt. Install 12" Type C Underdrain

410.37

30 — x — ℄ — x — S.W. — 30 — Revised Slope Limit 7/18/69 — 12

408.50

14+00 — 405

Sta. 14+10 Lt. Construct Type A-1 Catch Basin

x — ℄

+97 — 36" Elm Lt. — 405

411.86

Const. ℄ & ℄ Survey

14

x — ℄

50

+74 — 21' Paved Road Skd. Bk. Lt. (to Bridgton Grammar Sch.) — 405

Sta. 13+74 Lt. Construct a Paved Approach to the School Road

412.82

Const. ℄ & ℄ Survey

Sta. 13+32 Lt. to Sta. 13+98 Lt. Install 12" Type C Underdrain

15

x — x — ℄ — x — S.W. — 30

33 — 25 — Revised Slope Limit 7/18/69

Sta. 13+44 Rt. /// — Eliminate 7/18/69 Construct Drive

406.50

+50 — 405

Sta. 13+30 Lt. Construct Type A-1 Catch Basin

C.B. — x — ℄

+46 — C.B. Lt. — 410

F.L. (12" C.M.P. OUTLET)

SILL

x — SW.

13+13 — Stone Steps Rt. — 410

Sta. 13+13 Rt. Remove Old Walk to 25' Rt. and Install a 4' Piece of Vertical Curb - Type I to Serve as a Step

℄

Sta. 13+13 to Sta. 15+00

103-181 Bridgton Sheet 9 of 19

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TOPOGRAPHY		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED	Mocks & Crew	12/60
NO.	PLOTTED	Dole	12/60
	TOPOGRAPHY		
	AREAS		
	AREAS CHECKED		

R. P. O. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			

+20 Quantity Pt.
400
S.W.
x

+09 C.B. Lt.
400
S.W.
x
CB
10" CMP OUT
18" CMP IN
SUMP

405.16
20
400
S.W.
x
Parking Lot Lt.
16+00
12%
Sta. 16+00 Lt. Construct Paved Drive 30' Opening
30

+89 4' Paved Walk Rt.
400
S.W.
x

+73 First North Store Sign Base Lt.
400
Sign Base

405.03
40
+48
S.W.
x

+58 9' Paved Ent. Rt.
400
Sta. 15+62 Rt. Construct Paved Drive

426.27
20
S.W.
x
28

+30 Parking Lot Lt.
400
28

15+28 Edge Parking Lot Lt.
400

Sta. 15+28 to Sta. 16+20

103-182 Bridgton Sheet 10 of 19

0 1 2 3 4 5 INCHES

R. F. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			

FINAL SURVEY	BY	DATE
	SURVEYED	
	PLOTTED	
NOTE BOOK	TRIANGULATE	
NO.	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
	SURVEYED Meade & Crow	12/68
	PLOTTED Maines & Trues	12/68
NOTE BOOK	TRIANGULATE	
	AREAS	
NO.	AREAS CHECKED	

Sta. 17+30 Lt. Construct Paved Drive - 30' Opening, (NE Fill is provided.)

Fill by others

2:1

Sta. 17+50 Lt. Install Type A-1 Catch Basin

Fill by others

36"

Sta. 17+00 Lt. Install Type A-1 Catch Basin

See Note Below

Top of Filled Area

+50

402.94

S.W.

℄

x

400

Sta. 17+00 Lt. Install Type A-1 Catch Basin

S.W.

℄

x

400

403.54

117.00

Hand Laid Riprap

Water Level

Plain Riprap

2:1

3:1

403.70

+87

End Lt.

400

403.77

+82

Begin Bridge Lt.

Filled Area Lt.

400

12" C.I. Pipe

conc. curb

12"

405.78

S.W.

x

400

drops Straight Down

+81

Begin Bridge Rt.

404.15

S.W.

x

400

Type 1

+56

Bottom of Abut. Rt.

Remove Existing Retaining Walls to Elev 395±. Payment as Common Excavation.

404.21

S.W.

x

400

+52

Stone Abut. Rt.

404.24

S.W.

x

400

16+50

Sta 16+50 to Sta. 17+50

103-183 Bridgton Sheet 11 of 19

0 1 2 3 4 5 INCHES

R.F.P. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
	TOPO. ADD.		
NOTE BOOK	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
	SURVEYED	Morse & Crew	12/63
	PLOTTED	Morse & True	12/63
	TOPO. ADD.		
NOTE BOOK	AREAS		
NO.	AREAS CHECKED		

℄ Elv. 302

+81 Lower Main St Sewd. And. Et. 395

+68 Ent to Filter Pipes Sewd. And. Lt. 395

+50 Top Stone Wall Sewd. And. Lt. 395

+50 Stone Wall Et 395

+22 End Bridge ℄ Abut. Lt. 395

402.74 S.W. 400

+17 End Bridge ℄ Abut. Et. 395

18+00

Bottom of Brook

H₂O Elev.

17+61

Bottom of Fill = Old Ground 400

TOP BANK

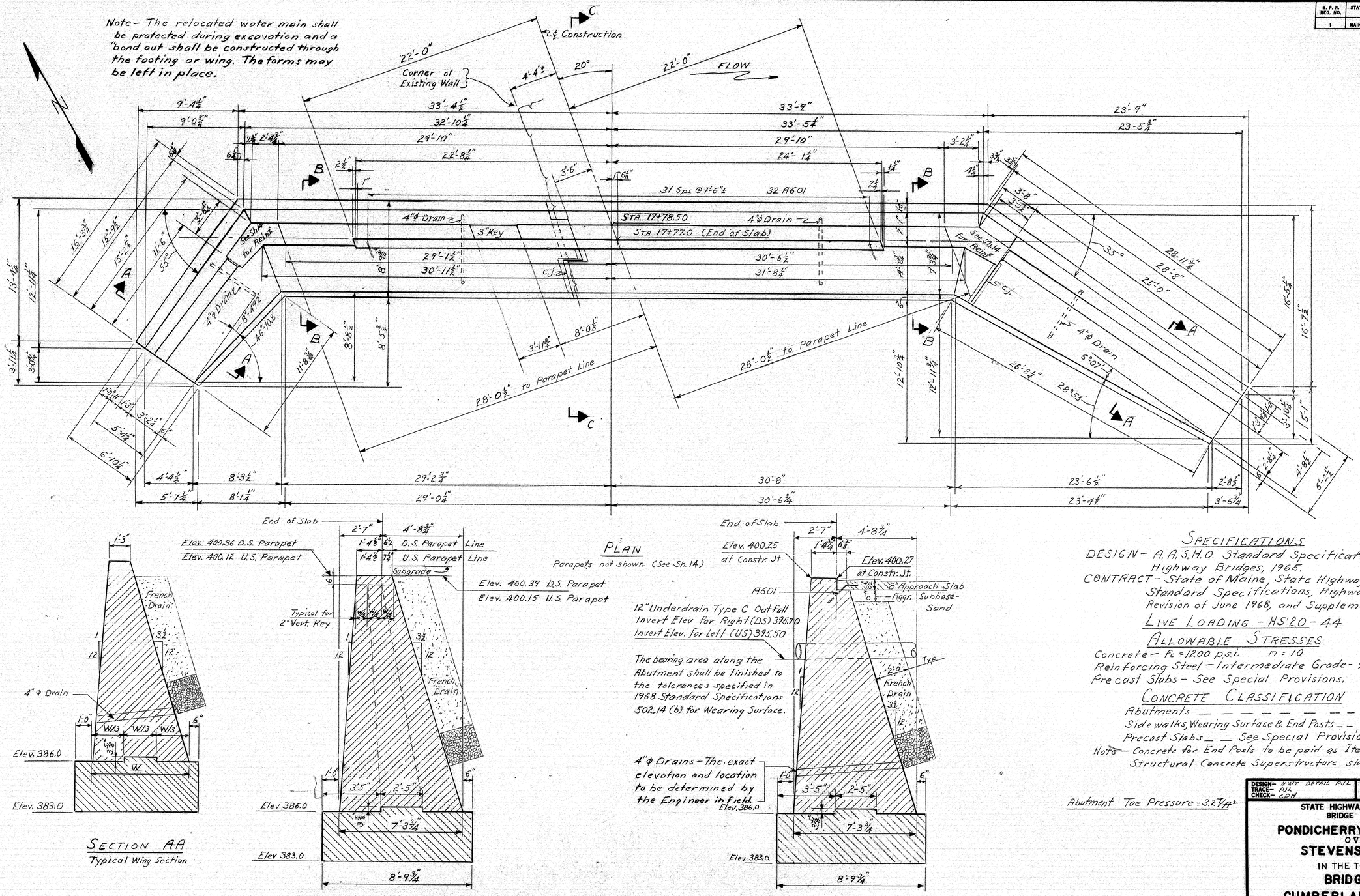
Edge Brook

103-184 Bridgton Sheet 12 of 19

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			

Note – The relocated water main shall be protected during excavation and a "bond out shall be constructed through the footing or wing. The forms may be left in place.



PLAN

Parapets not shown. (See Sh. 14)

SECTION A-A
Typical Wing Section

SECTION B-B

SECTION C-C

SPECIFICATIONS

DESIGN – A.A.S.H.O. Standard Specifications for Highway Bridges, 1965.
CONTRACT – State of Maine, State Highway Commission, Standard Specifications, Highways & Bridges, Revision of June 1968, and Supplements.

LIVE LOADING – HS 20 – 44

ALLOWABLE STRESSES

Concrete – f_c = 1200 p.s.i. n = 10
Reinforcing Steel – Intermediate Grade – f_s = 20,000 p.s.i.
Pre cast Slabs – See Special Provisions.

CONCRETE CLASSIFICATION

Abutments – – – – – – – – – Class B
Side walks, Wearing Surface & End Posts – – Class A
Precast Slabs – – See Special Provisions
Note – Concrete for End Posts to be paid as Item 502.25 Structural Concrete Superstructure slabs.

Abutment Toe Pressure = 3.2 T/ft²

DESIGN – NWT DETAIL AJL	BRIDGE NO.
TRACE – AJL	SURVEY –
CHECK – CDH	PLOT –

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PONDICHERRY BRIDGE OVER STEVENS BROOK

IN THE TOWN OF

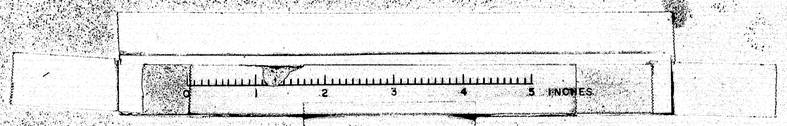
BRIDGTON

CUMBERLAND COUNTY

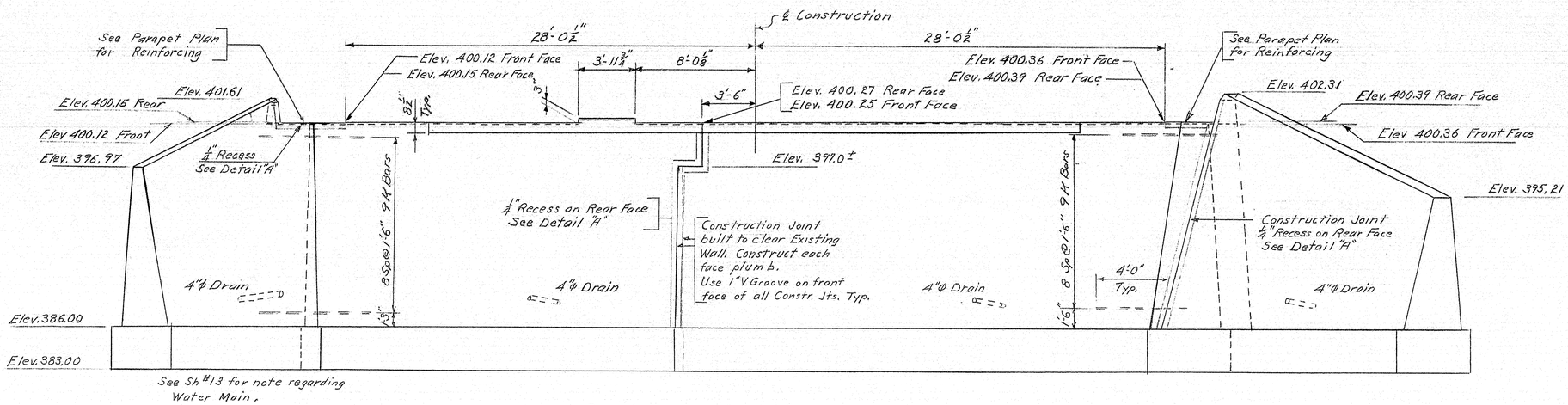
ABUTMENT NO. 1 PLAN & SECTIONS

SHEET 13 OF 19 AUGUSTA, MAINE JUNE 1969

103-185



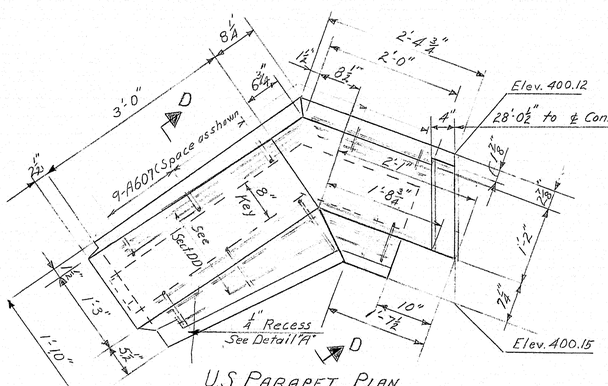
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			



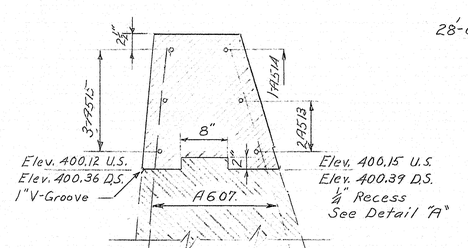
See Sh #13 for note regarding Water Main.

REAR ELEVATION ABUT 1
Looking along ℄ Construction
Parapets not shown

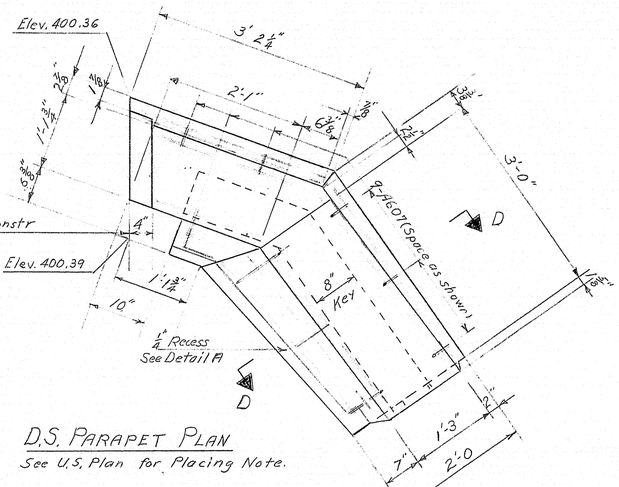
Note:
Place K Bars 6" from the back face of forms. Bend in field to fit the turn. Space as shown.



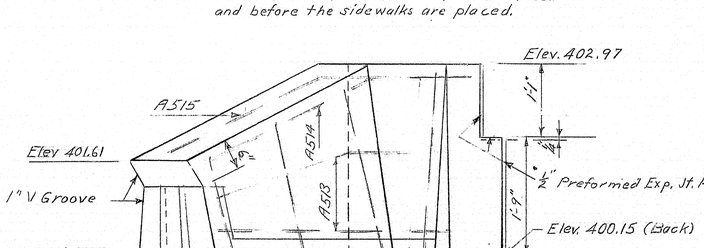
U.S. PARAPET PLAN
Place after all Slabs are Post Tensioned and before the sidewalks are placed.



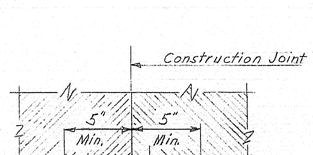
SECTION DD



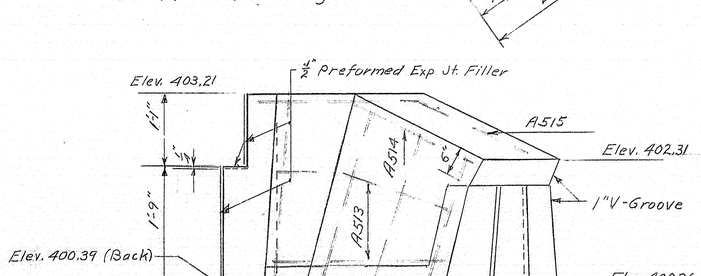
D.S. PARAPET PLAN
See U.S. Plan for Placing Note.



REAR ELEVATION



DETAIL "A"
Cover Construction Joints on the backside with 2 layers of heavy roofing 10" wide. Coat the concrete and each layer of roofing as applied with Asphalt Flashing Cement.



REAR ELEVATION

DESIGN— NWT DET RJL	BRIDGE NO.
TRACE— RJL	SURVEY—
CHECK— CPH	PLOT—

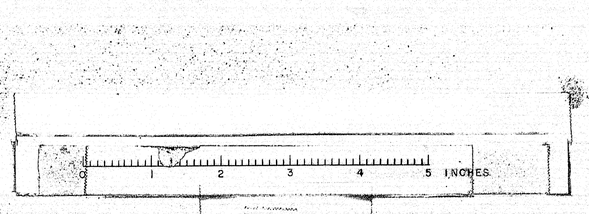
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PONDICHERRY BRIDGE
OVER
STEVENS BROOK
IN THE TOWN OF
BRIDGTON
CUMBERLAND COUNTY

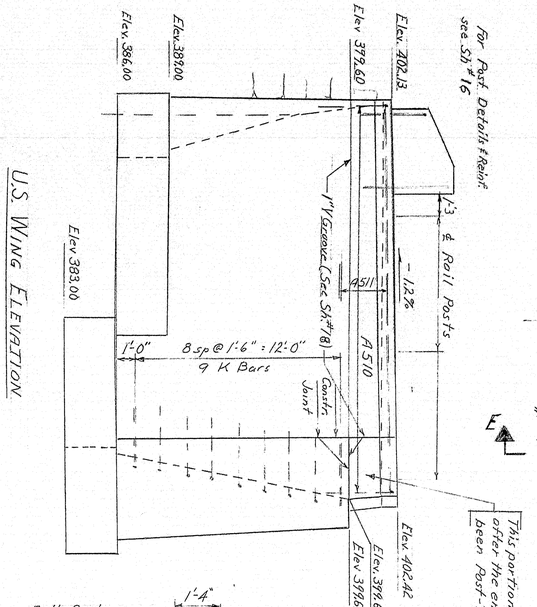
ABUTMENT NO. 1 ELEVATION & DETAILS

SHEET 14 OF 19 AUGUSTA, MAINE JUNE 1969

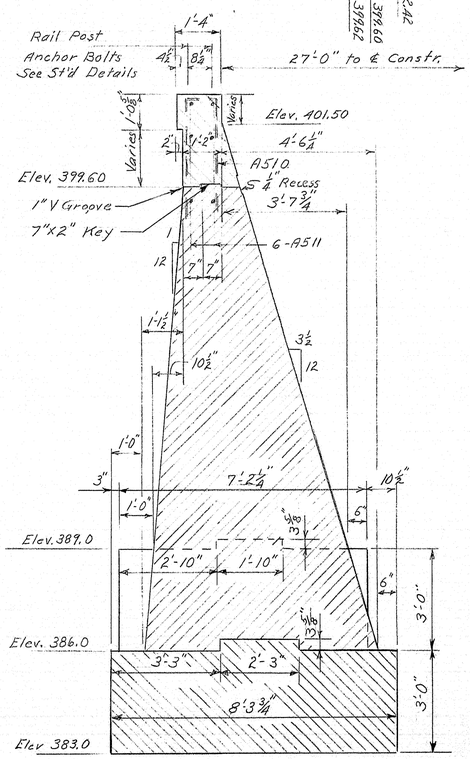
103-186



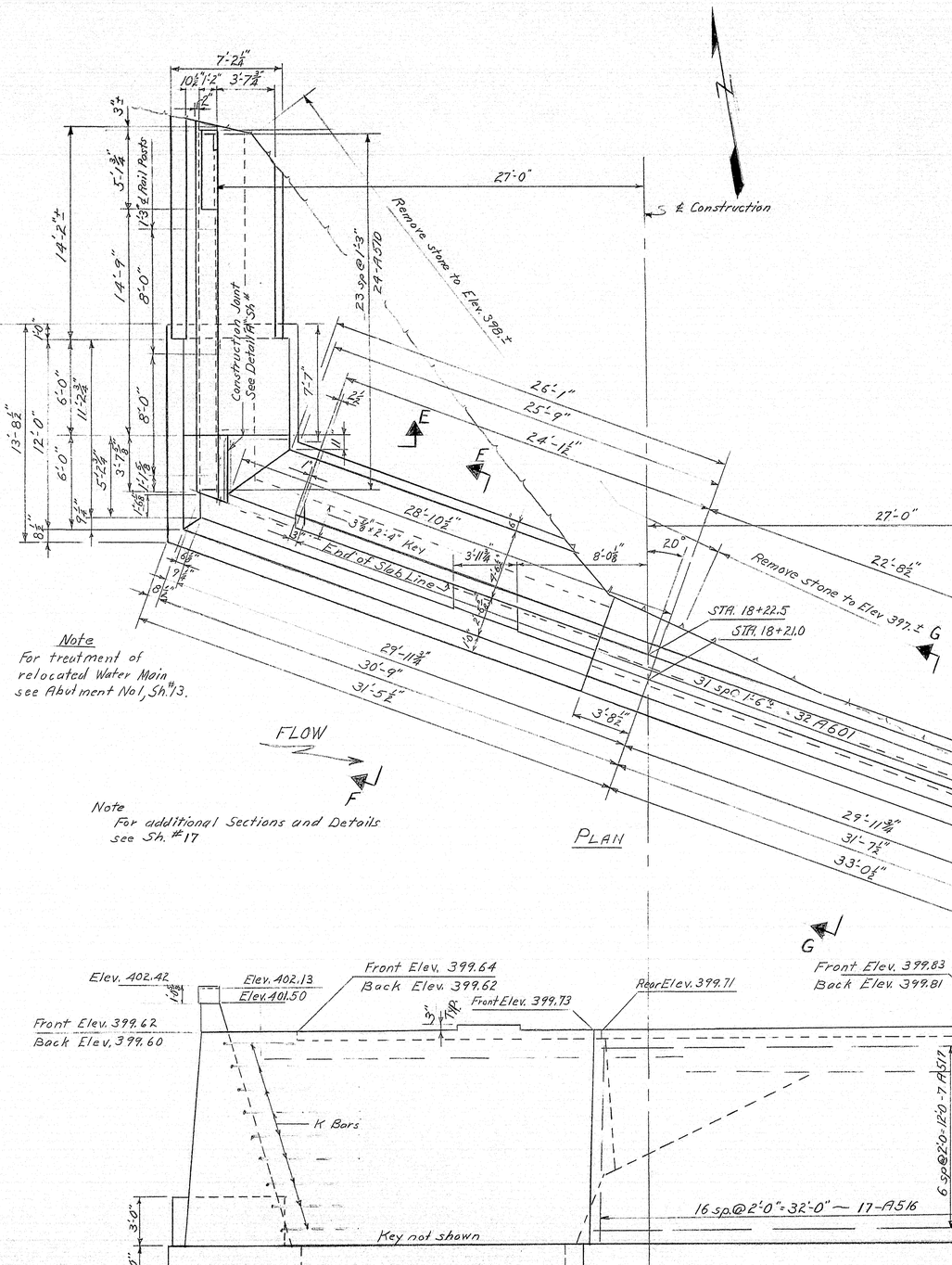
B. P. B. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			



U.S. WING ELEVATION



SECTION E E
End Post not shown

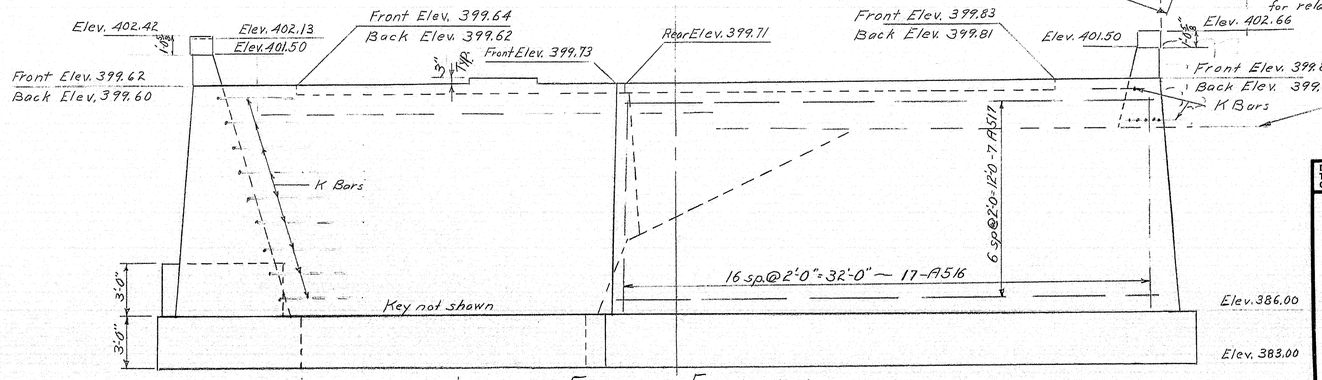


PLAN

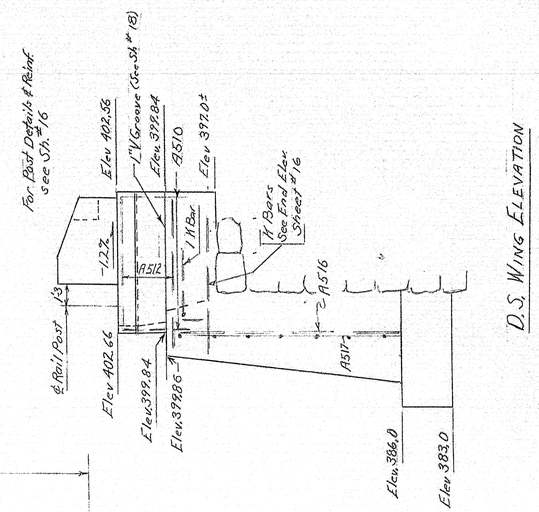
Note
For treatment of relocated Water Main see Abutment No 1, Sh. #13.

FLOW

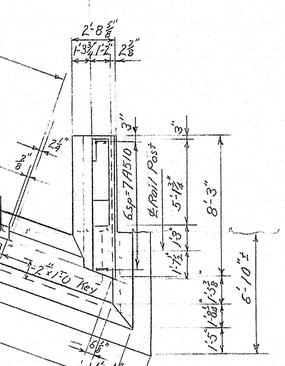
Note
For additional Sections and Details see Sh. #17



FRONT ELEVATION



D.S. WING ELEVATION



DESIGN- NWT DETAIL- PJL	BRIDGE NO.
TRACE- PJL	SURVEY-
CHECK- CDH 5/69	PLOT-

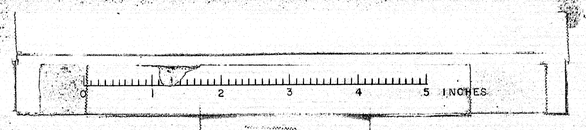
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PONDICHERRY BRIDGE
OVER
STEVENS BROOK
IN THE TOWN OF
BRIDGTON
CUMBERLAND COUNTY

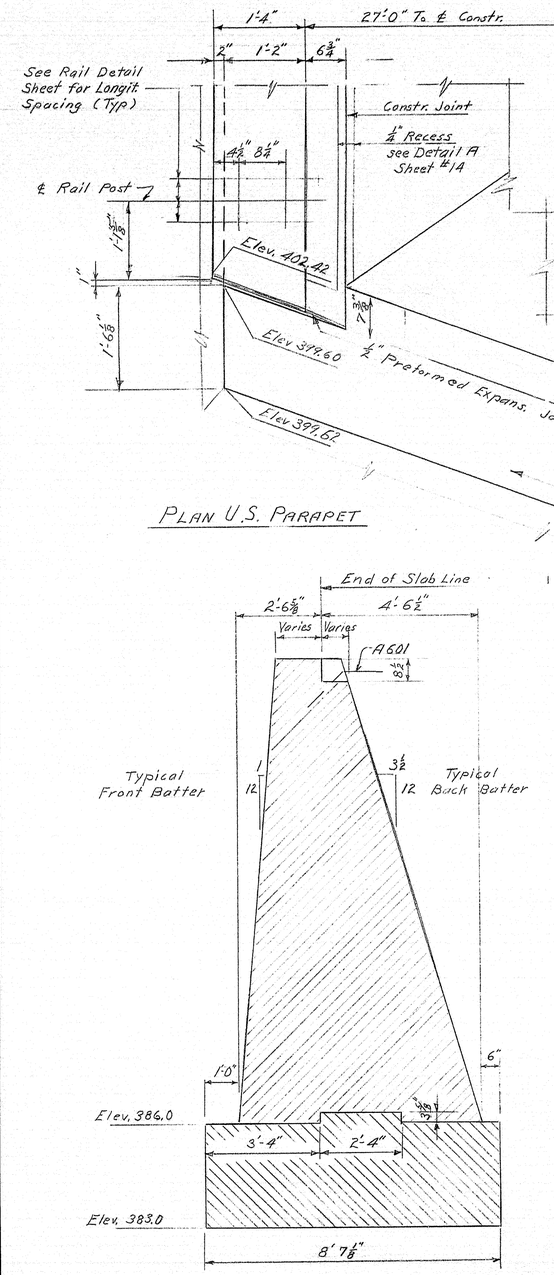
ABUTMENT 2 PLAN

SHEET 15 OF 19 AUGUSTA, MAINE JUNE 1969

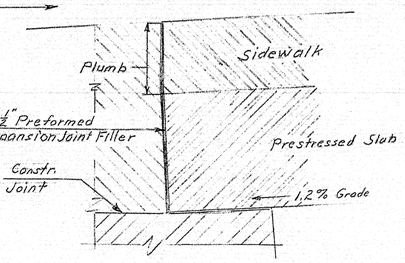
103-187



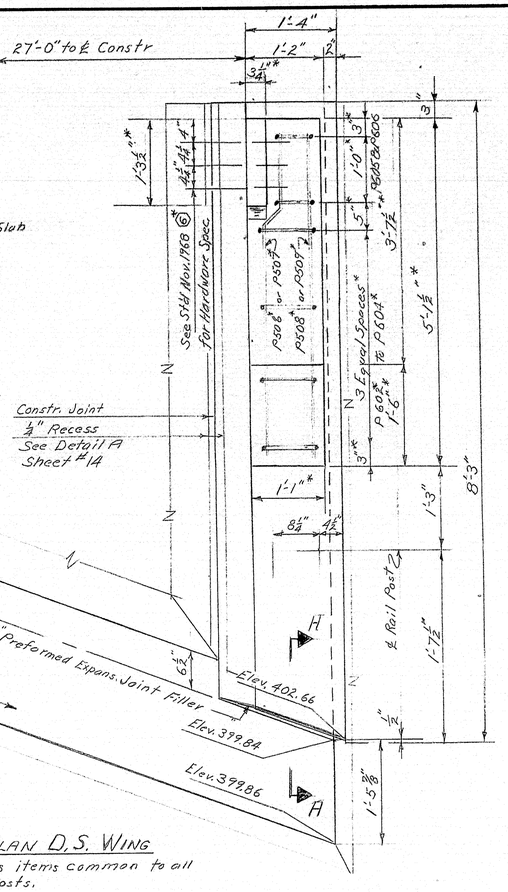
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			



PLAN U.S. PARAPET

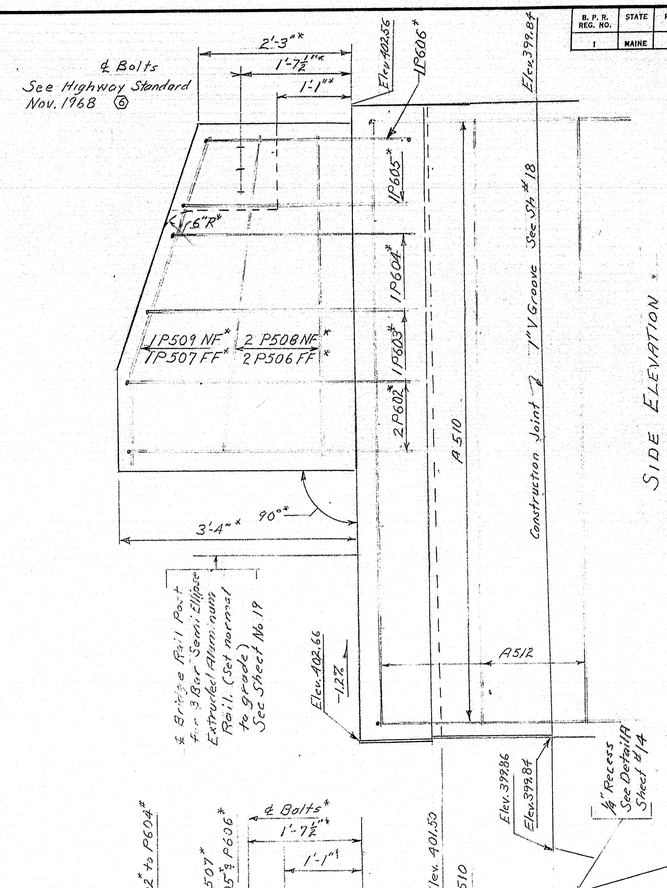


SECTION H-H
Both parapets are the same



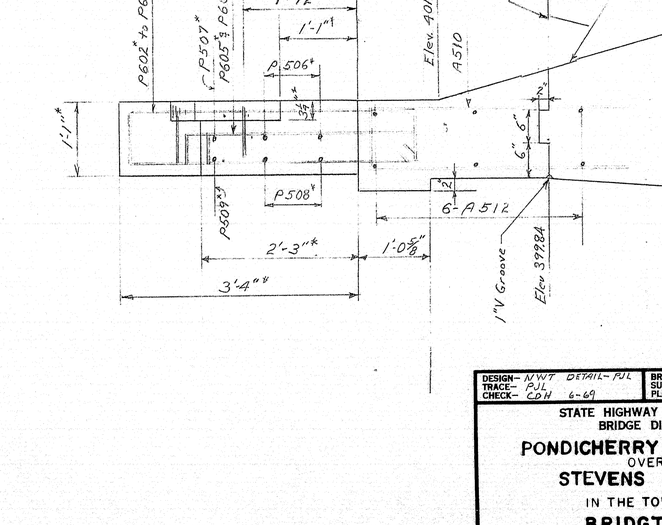
PLAN D.S. WING

* Denotes items common to all End Posts.



SIDE ELEVATION

* Denotes items common to all End Posts. All reinforcing to have 2" min. Clear



*Denotes items common to all End Posts

END ELEVATION

SECTION F F

SECTION G G

Note
If the bottom of the Existing Wall is above the elevation shown for the bottom of Footing for the new construction, the existing wall shall be underpinned in a satisfactory manner.

DESIGN- NWT	DETAIL- PJL	BRIDGE NO.	
TRACE- PJL		SURVEY-	
CHECK- CDH	6-69	PLOT-	

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

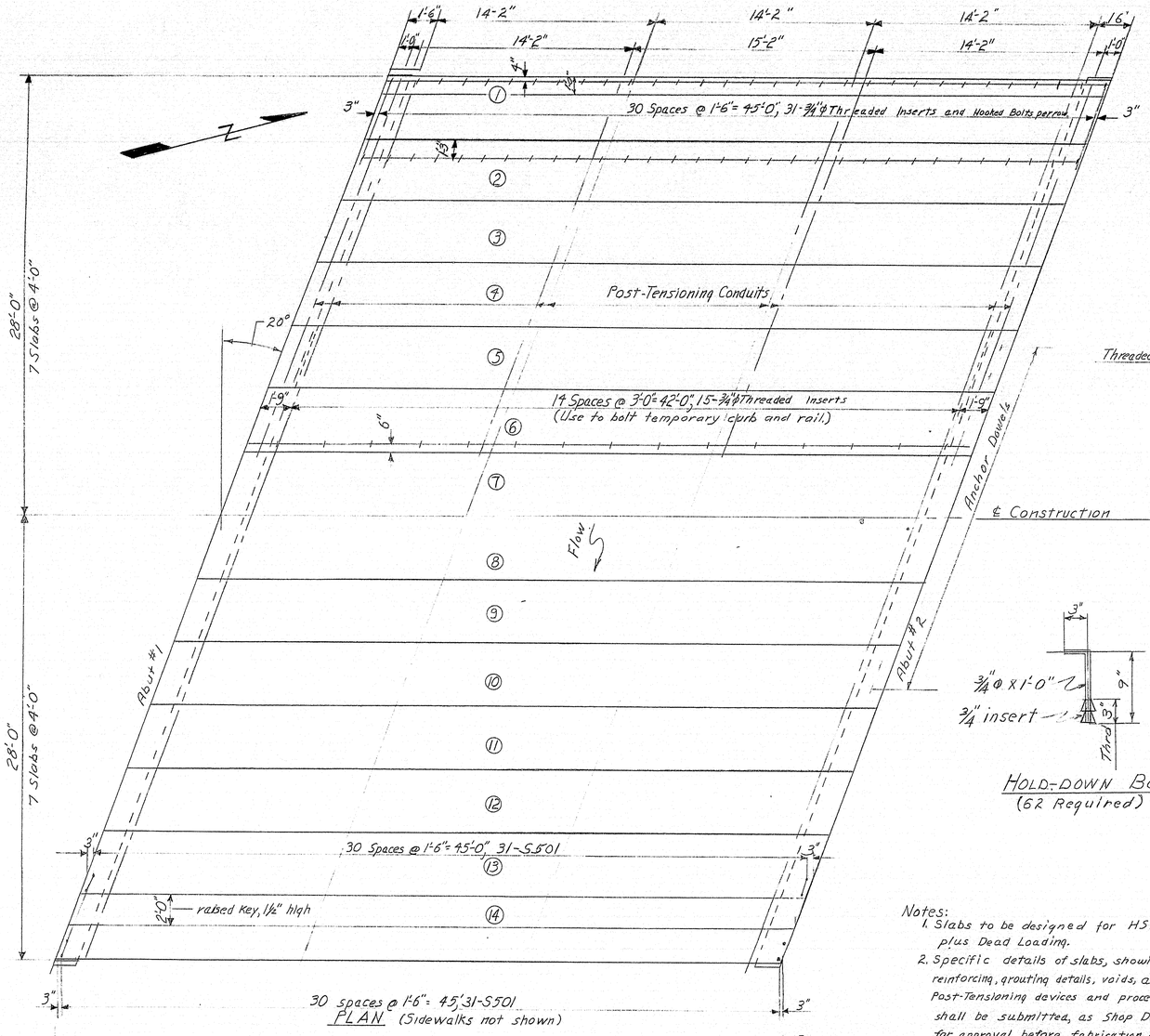
PONDICHERRY BRIDGE
OVER
STEVENS BROOK
IN THE TOWN OF
BRIDGTON
CUMBERLAND COUNTY

ABUTMENT 2 DETAILS

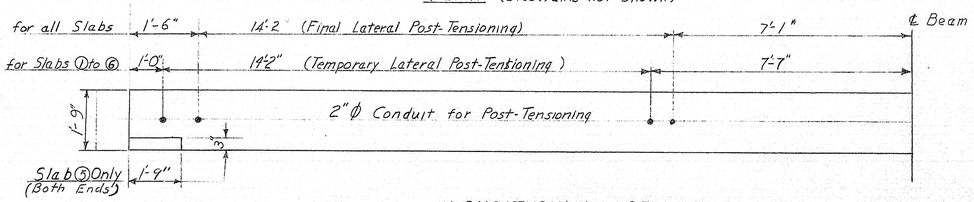
SHEET 16 OF 19 AUGUSTA, MAINE JUNE 1969

103-188

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			



PLAN
(Sidewalks not shown)



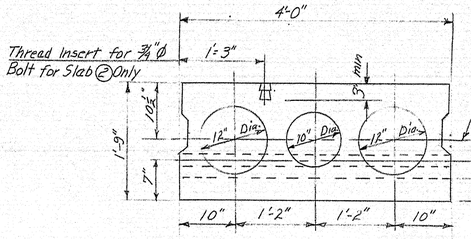
LONGITUDINAL SECTION

Keys, Inserts, Reinforcing Steel and Voids not shown. (See Slab Sections. Section symmetrical about ℄ Beam except for anchor sleeve @ Abut #2.)

HOLD-DOWN BOLT
(62 Required)

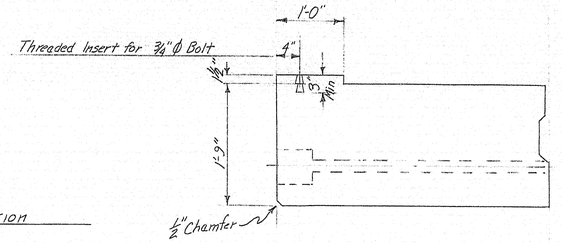
Notes:

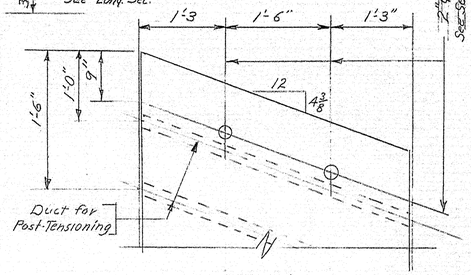
1. Slabs to be designed for HS20-44 Loading plus Dead Loading.
2. Specific details of slabs, showing reinforcing, grouting details, voids, and Lateral Post-Tensioning devices and procedures shall be submitted, as Shop Details, for approval before fabrication is started.
3. All reinforcing steel wholly or partly embedded in the precast units, preformed pads, all materials and work for lateral post-tensioning and grouting keyways, ¾" inserts and ¾"ϕ holddown bolts shall be considered incidental to Item 502.50 Prestressed Structural Concrete Slab.
4. Voids and details shall be similar to those shown by Joint Committee AASHO Committee on Bridges and Structures and Prestressed Concrete Institute.



Includes all slabs except those shown below. Also special details are noted for individual slabs.

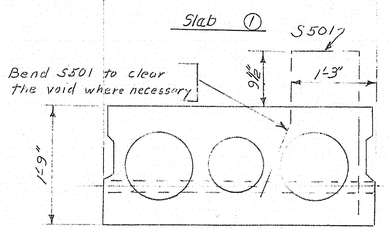
TYPICAL SECTION

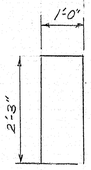




PLAN VIEW
ANCHOR SLEEVE DETAIL

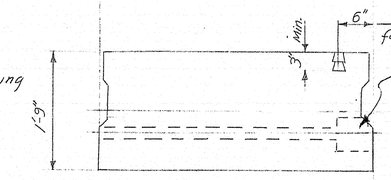
At Abutment 2 End only
Anchor dowels in units ⑤ to ⑩ inclusive.



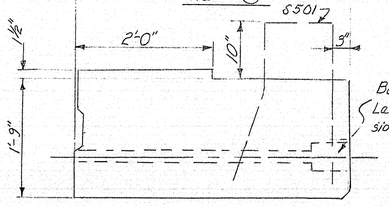


DETAIL S501
#5 Reinforcing
62 Required

Slab ⑬



Slab ⑥



Slab ⑰

All Sections above are Shown looking North

SPECIFICATIONS

Design:
AASHO Standard Specifications for "Highway Bridges 1965 with Interim Specifications 1966-1967.

Construction:
State of Maine, State Highway Commission Standard Specifications Highway and Bridges, Revision of June 1968.

Concrete Classification:
Precast concrete as specified in Special Provisions.

Design Data:
Maximum design compressive strength (f'_c) = 5,000 psi.

DESIGN- NWT TRACE- PL CHECK- CDM 6-69	BRIDGE NO. SURVEY- PLOT-

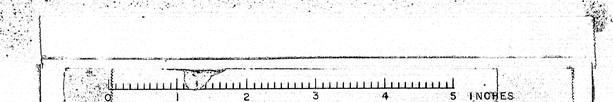
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PONDICHERRY BRIDGE
OVER
STEVENS BROOK
IN THE TOWN OF
BRIDGTON
CUMBERLAND COUNTY

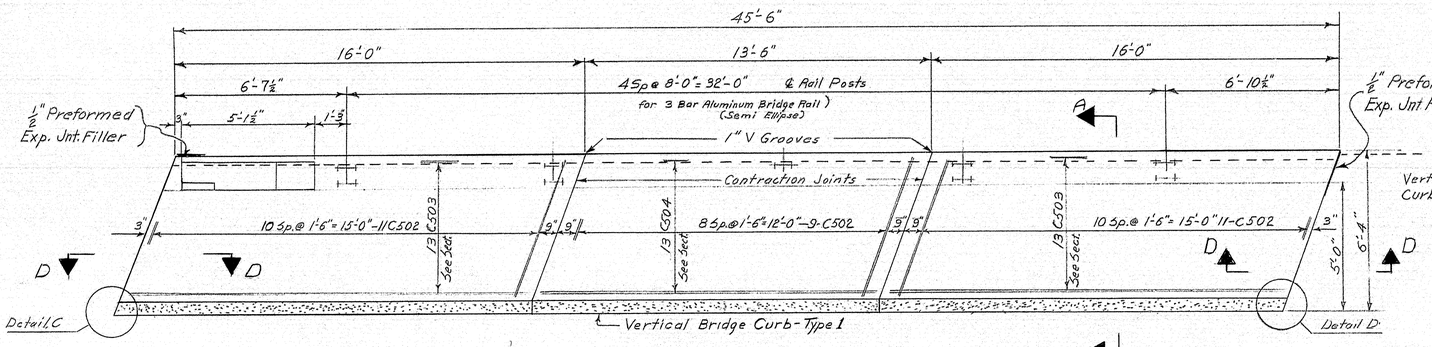
SUPERSTRUCTURE
SLABS

SHEET 17 OF 19 AUGUSTA, MAINE JUNE 1969

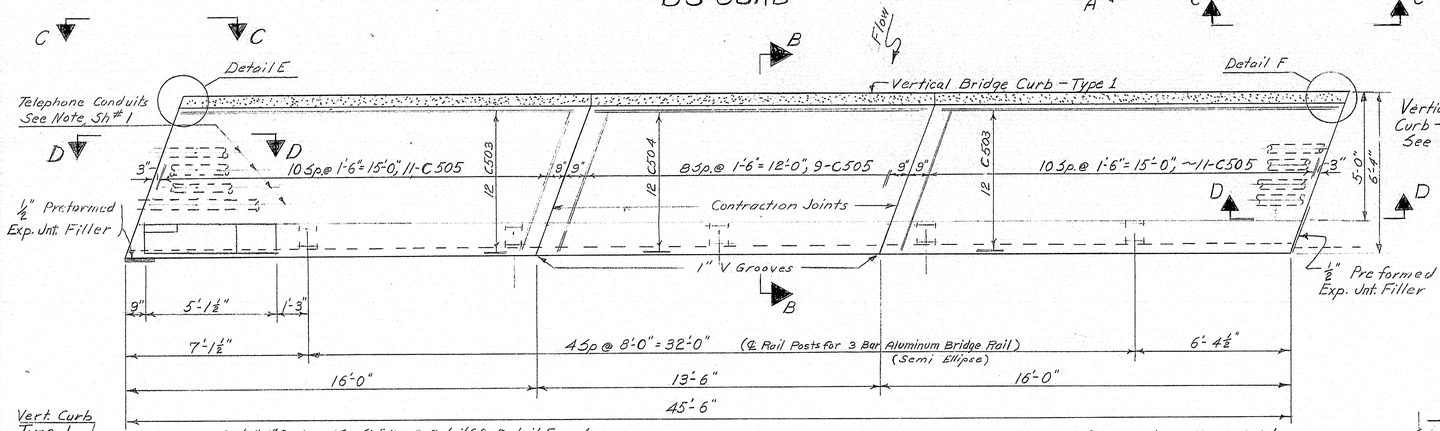
103-189



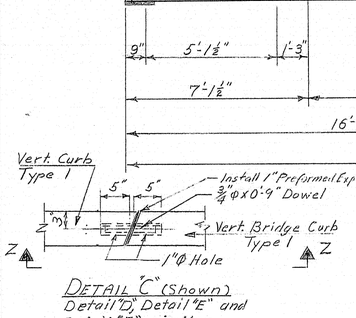
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			



US CURB

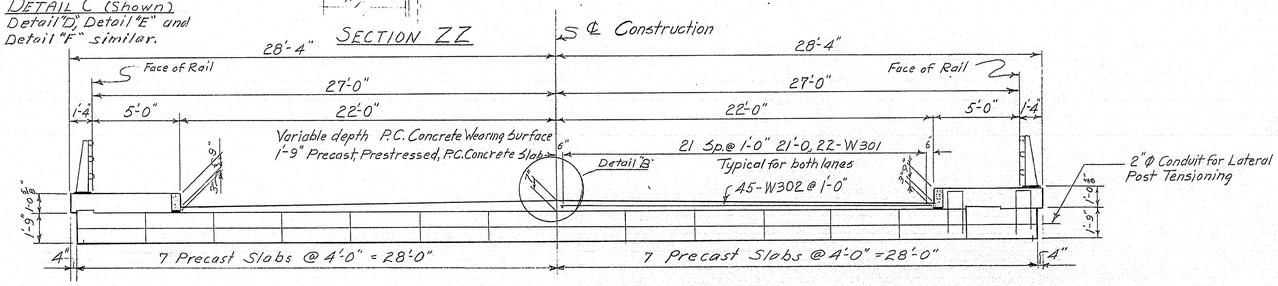


DS CURB

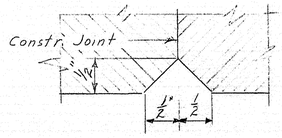


DETAIL "C" (Shown)
Detail "D", Detail "E" and Detail "F" similar.

Note :- Coat the Wearing Surface, side walk, outside face of sidewalk and exposed face of prestressed units ① and ⑫ with Protective Coating for Concrete Surfaces.

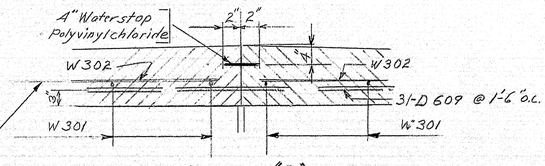


TYPICAL CROSS - SECTION

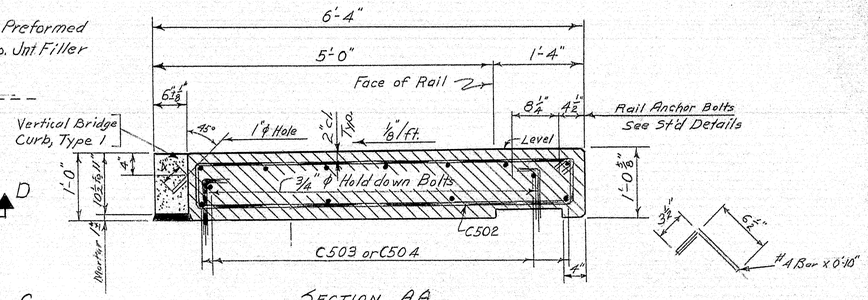


1" V GROOVE

Place the reinforcing in the Wearing Surface approximately in the middle of the slab. At the curb place reinforcing to have a minimum 1½" clear cover.

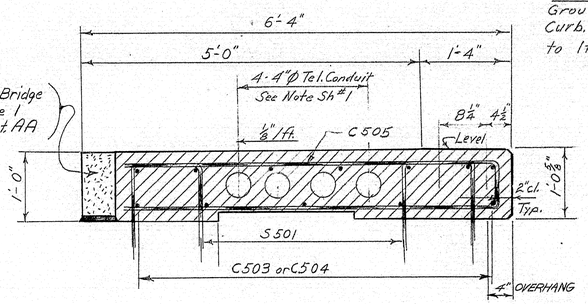


DETAIL "B"
Longitudinal Joint in Wearing Surface.

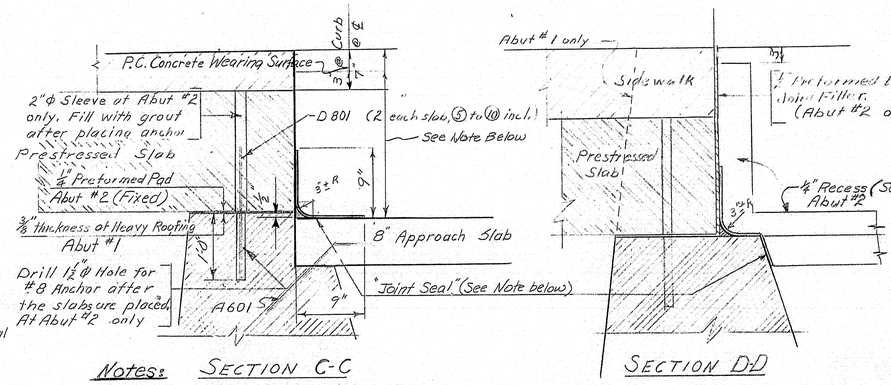


SECTION AA

CURB ANCHOR
Grout into Vertical Bridge Curb. Payment incidental to Item 609.13



SECTION BB



SECTION CC

SECTION DD

Notes:
— Seal ends of Prestressed Slab, side walk and Wearing Surface with Trowel Grade Epoxy Resin Sealant. Sealant shall be applied before the "Joint Seal" is installed (See Below).
— "Joint Seal" shall be constructed as follows:
1. The surface shall be covered to a depth of ¼" with Asphalt Flashing Cement.
2. The corner shall be filled with Asphalt Flashing Cement.
3. A strip of Heavy Roofing shall be placed. Any splice shall be treated with Asphalt Flashing Cement and lapped at least 6".
4. A second ¼" application of Asphalt Flashing Cement and Roofing shall be applied before backfilling.

DESIGN— NWT. DETAIL: BJL
TRACE— W.C. Edge comb 6-69
CHECK— CDH 6-69
BRIDGE NO.
SURVEY—
PLOT—

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PONDICHERRY BRIDGE
OVER
STEVENS BROOK
IN THE TOWN OF
BRIDGTON
CUMBERLAND COUNTY
SUPERSTRUCTURE DETAILS

SHEET 18 OF 19 AUGUSTA, MAINE JUNE 1969

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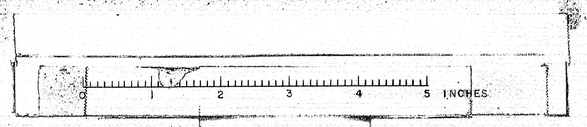
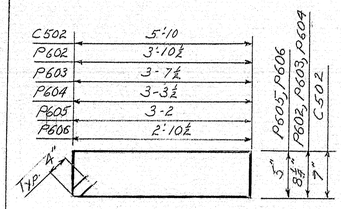
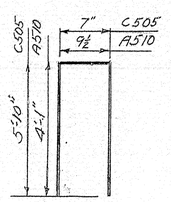


B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			

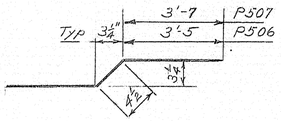
REINFORCING SCHEDULE



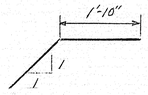
C502, P602, P603, P604, P605, P606



C505, A510



P507 & P506



A601

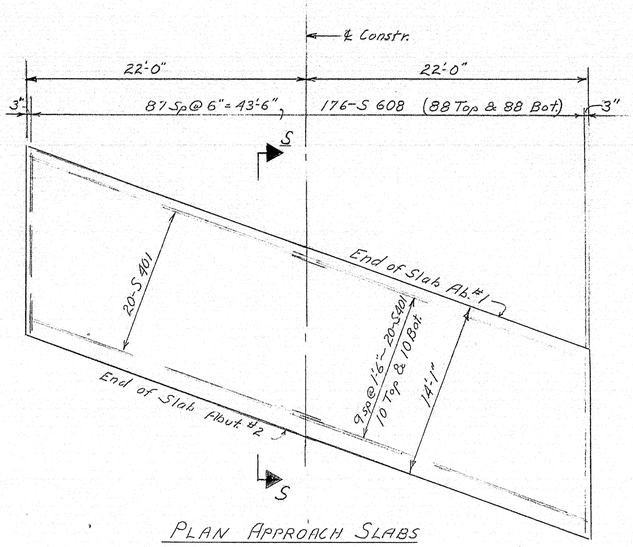
Dimensions are to ℄ Bar.

BENT BARS

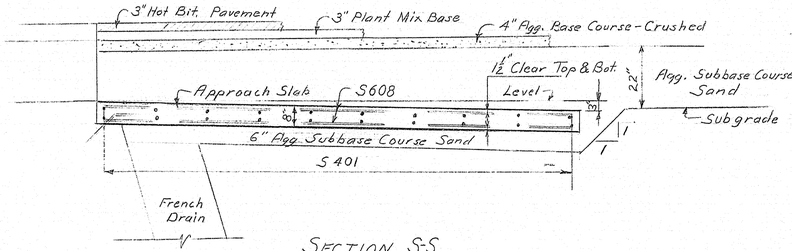
Mark	Size	Number	Length	Location & Remarks
A601	#6	64	3'-8"	Abut #1 & Abut #2 to Approach Slab
P602		8	9'-10"	End Posts
P603		4	9'-4	do
P604		4	8'-8"	do
P605		4	7'-10"	do
P606	6	4	7'3"	do
P507	#5	4	4'-11"	do (Also bend in field)
P506		8	4'-9"	End Posts
C505		31	12'-3"	D.S. Sidewalk
C502		31	13'-6"	U.S. Sidewalk
A510	5	31	9'-0"	Abut #2

STRAIGHT BARS

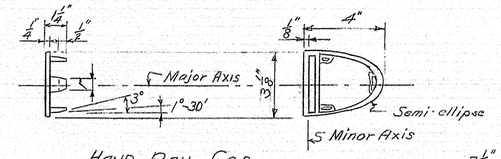
D801	#8	12	2'-0	Abut #2
A607	6	18	4'-3"	Abut #1 Parapet Dowels
K	6	33	8'-0"	Abut #1 & Abut #2
C503	5	50	15'-8"	Sidewalks
C504		25	13'-2"	Side walks
P508		8	4'-8"	End Posts
P509		4	4'-11"	End Posts (Bend in field)
A511		6	23'-0"	Abut #2
A512		6	1'-0"	Abut #2
A513		4	3'-6"	Abut #1 (Bend in field)
A514		2	4'-3"	do do
A515	5	6	5'-6"	Abut #1 (Bend in field)
S608	6	352	13'-9	Approach Slab
S401	4	80	24'-0	Approach Slab
W301	3	88	23'-0"	Wearing Surface (Long. spliced)
W302	3	90	21'-6"	Wearing Surface (Transverse)
D609	6	31	3'-0"	Dowel for Wearing Surface Jt.
A516	5	17	13'-0	Abutment 2
A517	5	7	32'-0	do.



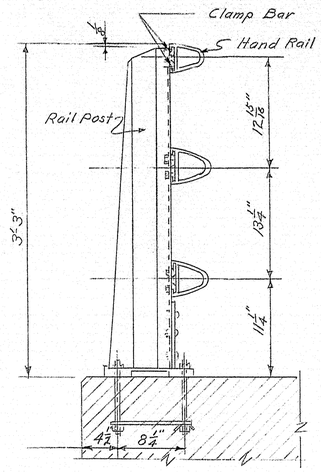
PLAN APPROACH SLABS



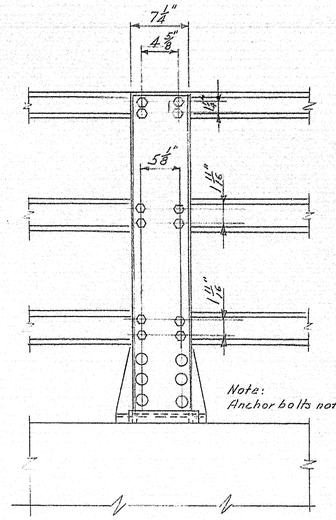
SECTION S-S
Abut #1 shown
Abut #2 similar



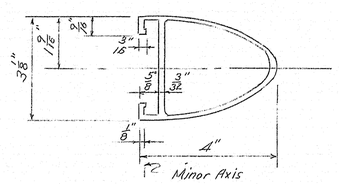
HAND RAIL CAP



3 BAR BRIDGE RAIL

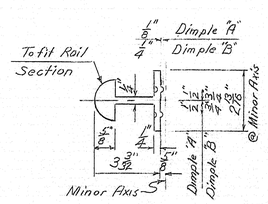


REAR ELEVATION

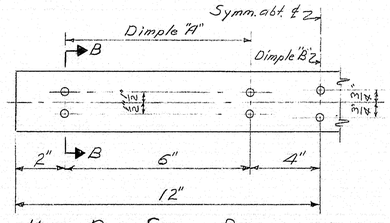


HAND RAIL SECTION

HAND RAIL CLAMP BAR

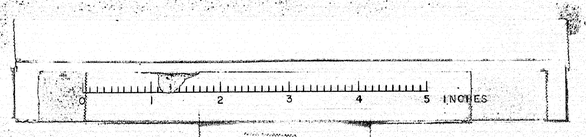


SECTION B-B



HAND RAIL SPLICE BAR

Note:
Apply Bridge Rail Details as shown on Standard Details BD 106-69 except as shown on this sheet.



DESIGN- N.W.T	DET- P.J.L.	BRIDGE NO.	
TRACE- P.J.L.		SURVEY-	
CHECK- E.D.H.	6-69	PLOT-	

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PONDICHERRY BRIDGE
OVER
STEVENS BROOK
IN THE TOWN OF
BRIDGTON
CUMBERLAND COUNTY

REINF. STEEL-APPR. SLAB-BRIDGE RAIL

SHEET 19 OF 19 AUGUSTA, MAINE JUNE 1969

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