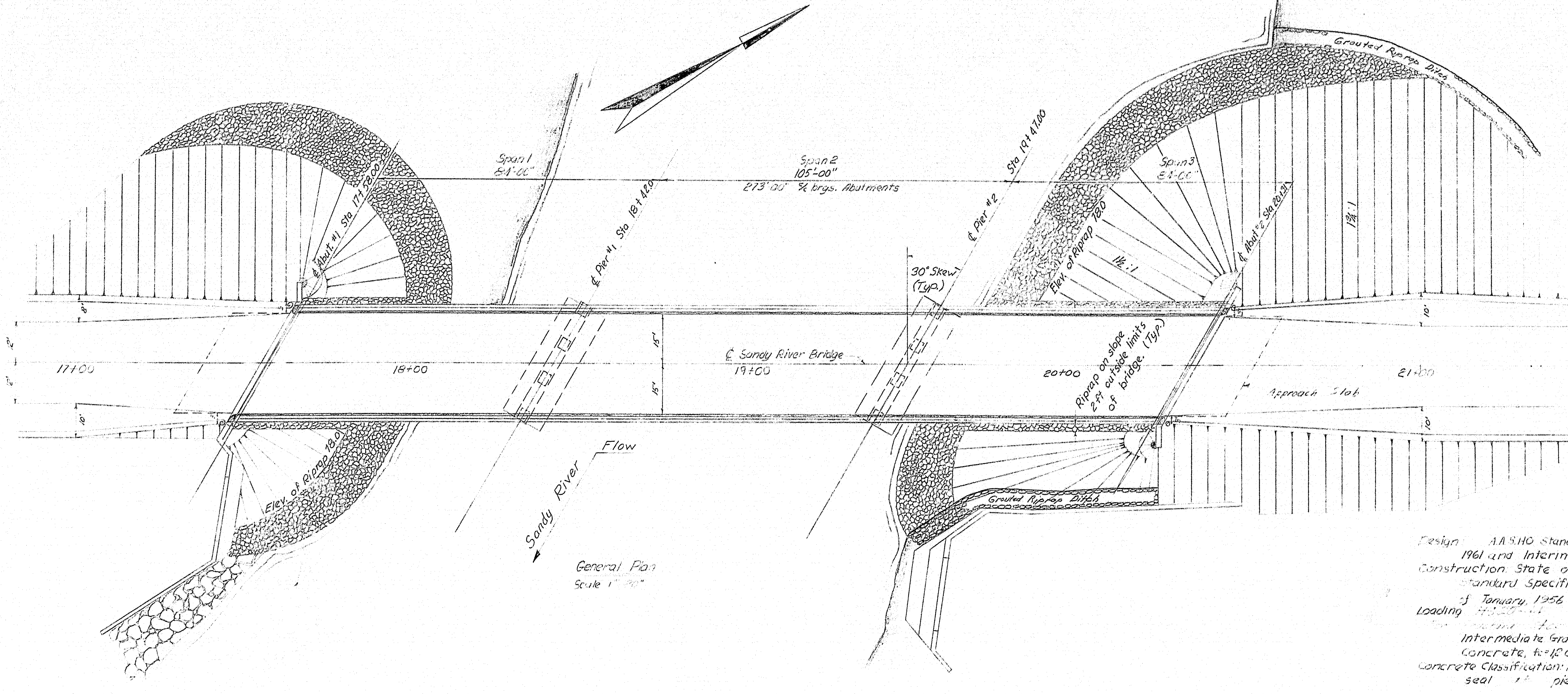
| B. P. R. REG. NO. | STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | | | |

## INDEX OF SHEETS

Sheet Number
1 - General Plan
2,3,4 - Survey
5,6,7 - Foundation Survey
8 - Typical Sections
9 thru 15 - Cross Sections, Construction ℄
16,17 - Access Road to Route 4
18,19,20 - School Street
21 - Abutment #1
22 - Abutment #2
23 - Pier #1
24 - Pier #2
25 - Structural Steel, Framing Plan
26 - " " , Cross Frames
27 - Blocking, Camber, Shear Connectors
28 - Superstructure Spans 1 & 2
29 - " Spans 2 & 3
30 - " Span 3
31 - Approach Slab, Water Pipe Detail
32 - Reinforcing Steel
STANDARD DETAILS:
BD 101-64 Bearing Plates
BD 104-64 Diaphragms, Armored Joint Shear Connectors, Drains
BD 105-64 Expansion Dams.
Sept. 1-64 Catch Basins
Sept. 2-64 Guard Rail
Sept. 3-64 Curbing
2 sheets showing R/W limits



General Plan
Scale 1"=20'

## Specifications

Design: A.A.S.H.O. Standard Specifications for Highway Bridges, 1961 and Interim Revisions, 1961, 1962.

Construction: State of Maine, State Highway Commission Standard Specifications, Highways and Bridges, Revision of January, 1956 and Supplemental Specifications, February 1960.

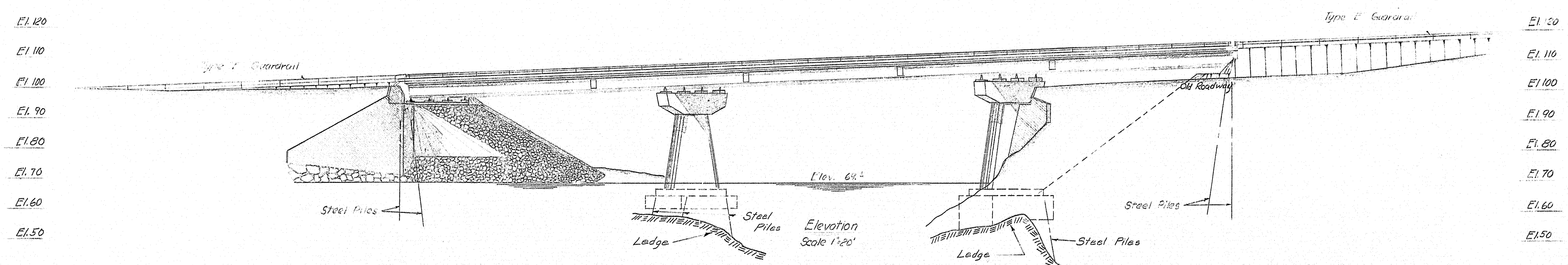
Loading: HS20-44

[illegible] Sheets 25, 26 & 27

Intermediate Grade Reinforcing Steel fs=20,000 p.s.i.

Concrete, fc=1,200 p.s.i., n=10.

Concrete Classification: All concrete is Class "A" except concrete seal [illegible] piers which is class "S".



Elevation
Scale 1"=20'

For Location Map see sheet #3

NOTE:
Controlled density method shall be used for placing all embankment material within 50' of the rear of abutments.
In areas where piles are to be driven the gravel borrow shall contain no rocks with maximum dimensions over six (6) inches, and concentrations of rocks shall be avoided.

DESIGN- Doton
TRACE- DETAIL- TWR
CHECK- T.H.K.

BRIDGE NO. 5161
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

# SANDY RIVER BRIDGE
OVER
# SANDY RIVER
IN THE TOWN OF
# STRONG
# FRANKLIN COUNTY
GENERAL PLAN & ELEVATION

SHEET 1 OF 32 AUGUSTA, MAINE May 1964

92-10

C. S. CO., NO. 44-131

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

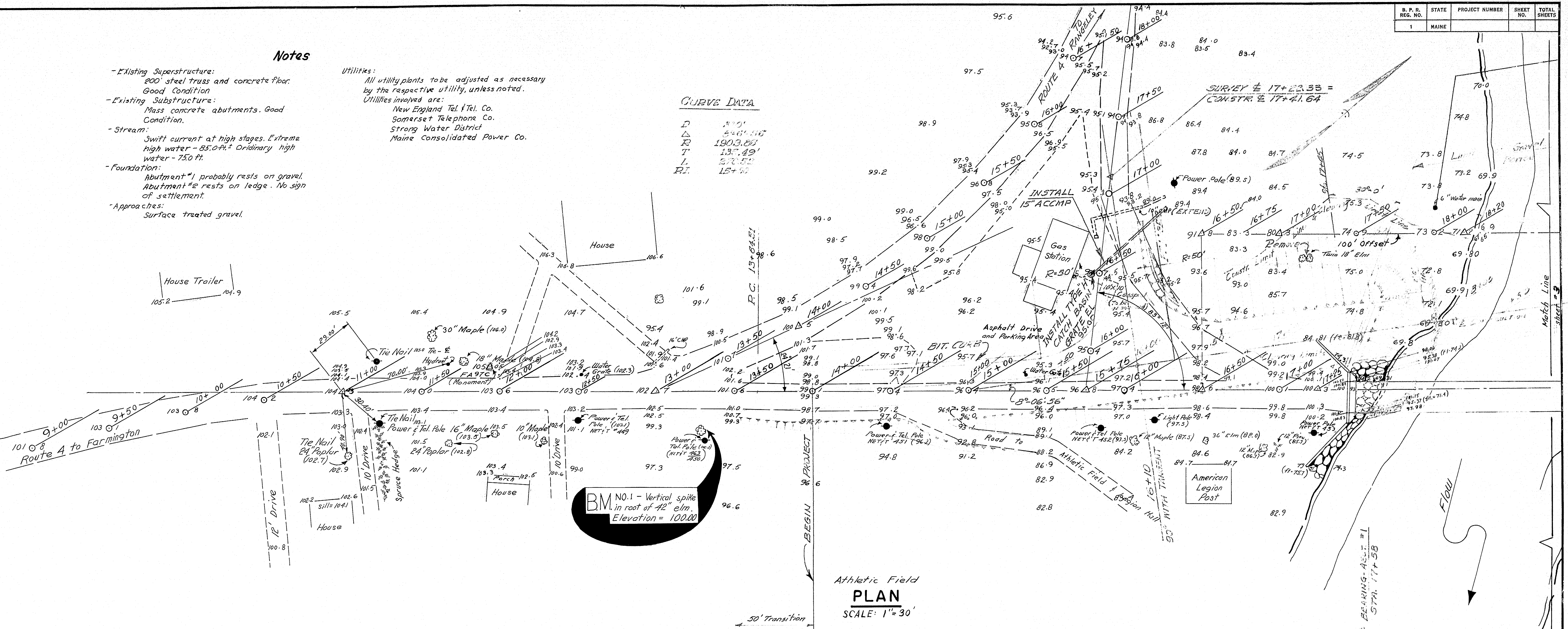
## Notes

- Existing Superstructure:
  200' steel truss and concrete floor.
  Good Condition
- Existing Substructure:
  Mass concrete abutments. Good
  Condition.
- Stream:
  Swift current at high stages. Extreme
  high water - 85.0 ft.± Ordinary high
  water - 75.0 ft.
- Foundation:
  Abutment #1 probably rests on gravel.
  Abutment #2 rests on ledge. No sign
  of settlement.
- Approaches:
  Surface treated gravel.

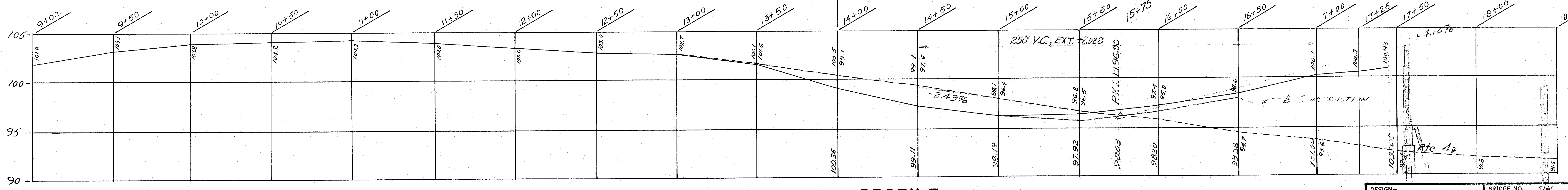
Utilities:
All utility plants to be adjusted as necessary
by the respective utility, unless noted.
Utilities involved are:
New England Tel. & Tel. Co.
Somerset Telephone Co.
Strong Water District
Maine Consolidated Power Co.

CURVE DATA

| | |
|---|---|
| D | 3°0' |
| Δ | 8°06'56" |
| R | 1909.86' |
| T | 135.49' |
| L | 270.52 |
| P.I. | 15+[illegible] |



PLAN
SCALE: 1" = 30'



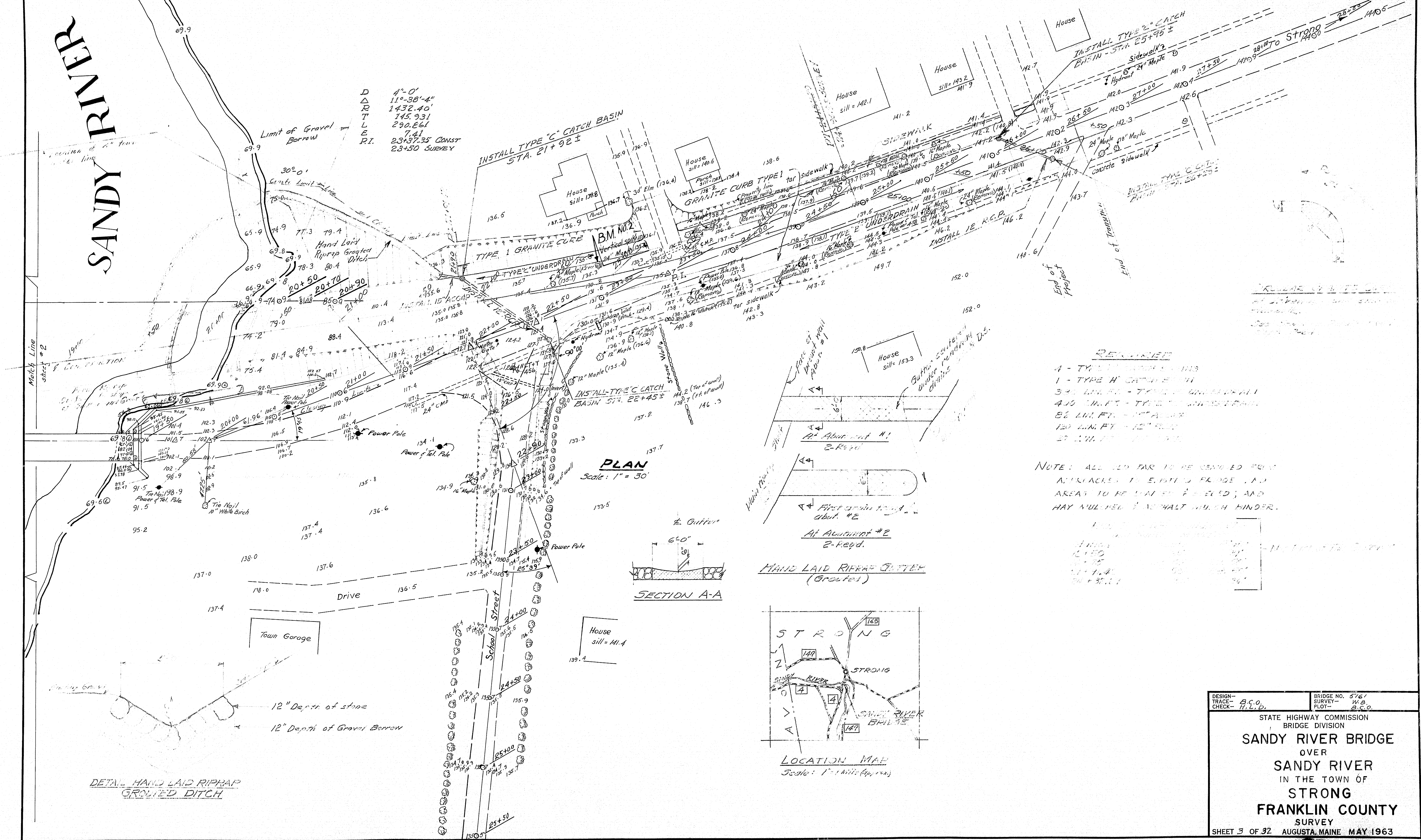
PROFILE
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 5'

DESIGN-
TRACE- B.C.O.
CHECK- H.L.D.

BRIDGE NO. 5161
SURVEY- W.B.
PLOT- B.C.O.

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
# SANDY RIVER BRIDGE
OVER
## SANDY RIVER
IN THE TOWN OF
## STRONG
## FRANKLIN COUNTY
SURVEY
SHEET 2 OF 32 AUGUSTA, MAINE MAY 1963

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



D 4°-0'
Δ 11°-38'-4"
R 1432.40'
T 145.931
L 290.861
E 7.41
P.I. 23+37.35 CONST
23+50 SURVEY

**PLAN**
Scale: 1" = 30'

**SECTION A-A**

**HAND LAID RIPRAP GUTTER**
(Grouted)

**LOCATION MAP**
Scale: 1" = 1 Mile (Approx.)

**DETAIL HAND LAID RIPRAP GROUTED DITCH**

REQUIRED
4 - TYPE "C" CATCH BASINS
1 - TYPE "H" CATCH BASIN
3?? LIN. FT. - TYPE "F" UNDERDRAIN
400 LIN. FT. - TYPE "C" UNDERDRAIN
82 LIN. FT. - 15" A.C.C.M.P.
120 LIN. FT. - 12" R.C.P.
[illegible]

NOTE: ALL OLD TAR TO BE REMOVED FROM APPROACHES TO EXISTING BRIDGE AND AREAS TO BE LOAMED & SEEDED; AND HAY MULCHED & ASPHALT MULCH BINDER.

DESIGN-
TRACE- B.C.O.
CHECK- H.L.D.

BRIDGE NO. 5161
SURVEY- W.B.
PLOT- B.C.O.

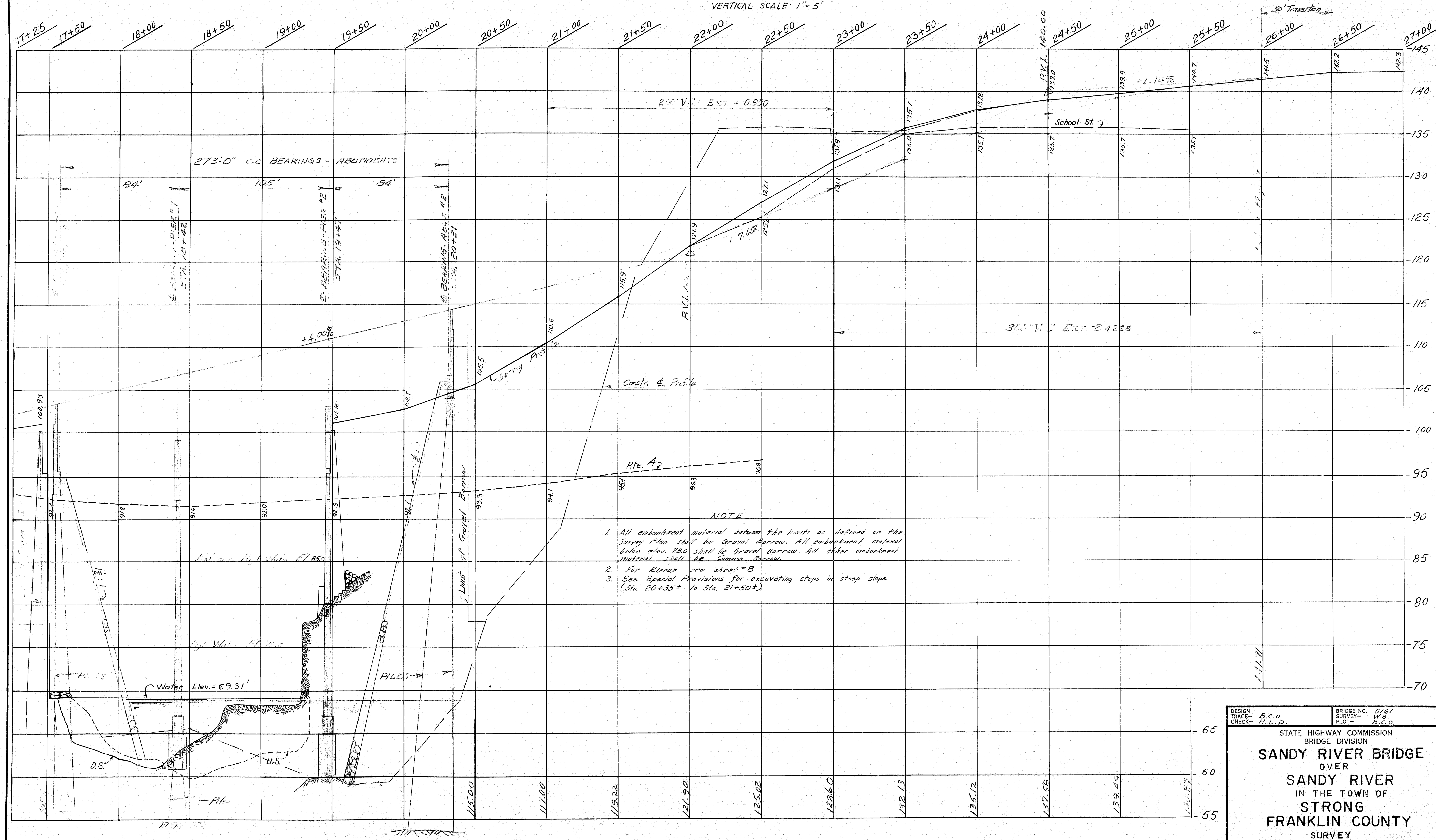
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
## SANDY RIVER BRIDGE
OVER
## SANDY RIVER
IN THE TOWN OF
## STRONG
## FRANKLIN COUNTY
SURVEY
SHEET 3 OF 32 AUGUSTA, MAINE MAY 1963

0 1 2 3 4 5 INCHES

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

# PROFILE

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 5'



NOTE

1. All embankment material between the limits as defined on the Survey Plan shall be Gravel Borrow. All embankment material below elev. 78.0 shall be Gravel Borrow. All other embankment material shall be Common Borrow.
2. For Riprap see sheet #8
3. See Special Provisions for excavating steps in steep slope (Sta. 20+35± to Sta. 21+50±).

| | |
|---|---|
| DESIGN—<br>TRACE— B.C.O<br>CHECK— H.L.D. | BRIDGE NO. 5161<br>SURVEY— W.B.<br>PLOT— B.C.O. |

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

## SANDY RIVER BRIDGE
OVER
## SANDY RIVER
IN THE TOWN OF
## STRONG
## FRANKLIN COUNTY
SURVEY

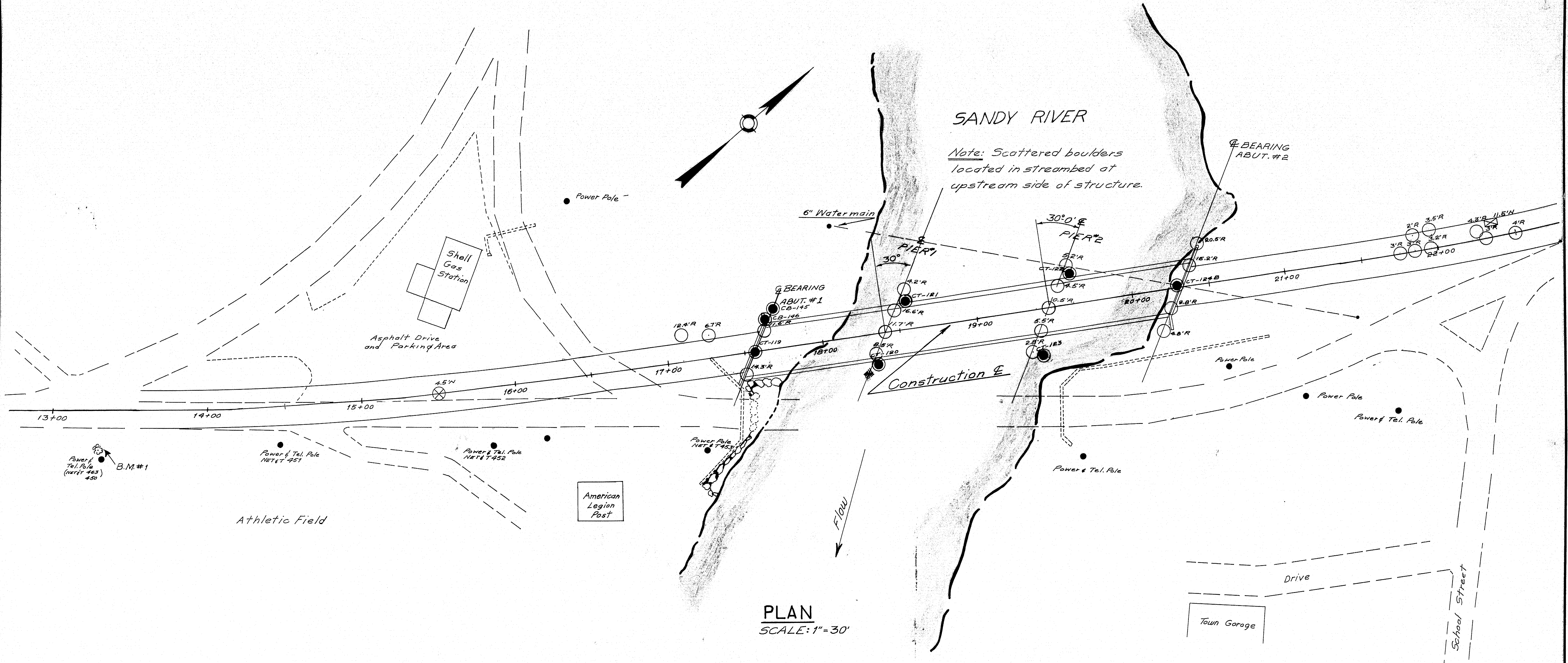
SHEET 4 OF 32 AUGUSTA, MAINE MAY 1963

[illegible]-13

C. B. CO., NO. 379B 25767

0 1 2 3 4 5 INCHES

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



## PLAN
SCALE: 1" = 30'

**LEGEND**

PLAN NOTES

- ○ Rod sounding
- ⊗ Auger boring
- ☒ Test Pit
- ○ 4.5'R Refusal at 4.5' depth
- ○ 4.5'N No refusal at 4.5' depth
- ● Wash boring
- ▨ Ledge

DESIGN–
TRACE– Soils Divison
CHECK–

BRIDGE NO.
SURVEY–
PLOT–

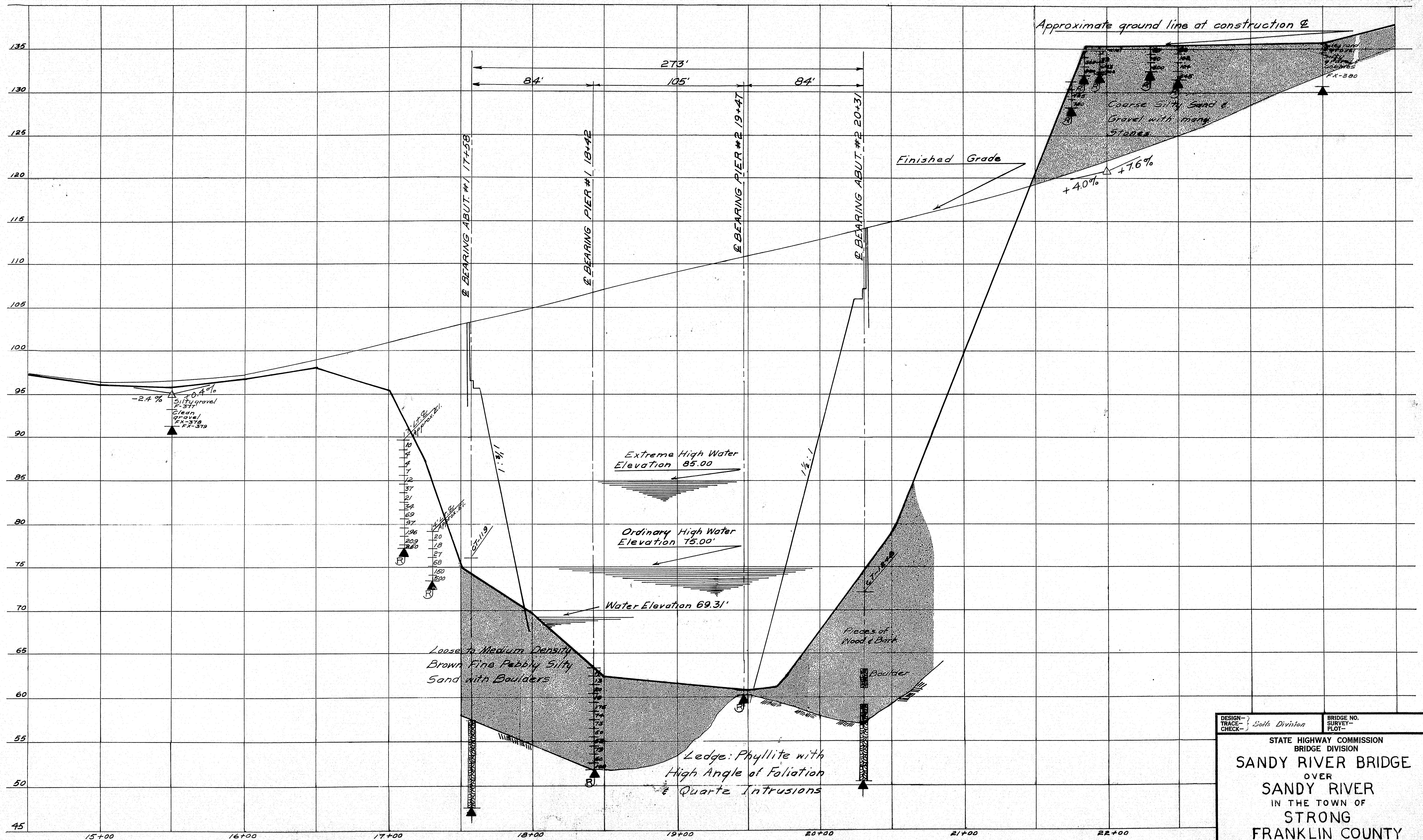
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
SANDY RIVER BRIDGE
OVER
SANDY RIVER
IN THE TOWN OF
STRONG
FRANKLIN COUNTY
FOUNDATION SURVEY
SHEET 5 OF 32 AUGUSTA, MAINE

C. B. CO., NO. 44-121 28765

92-14

0 1 2 3 4 5 INCHES

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



PROFILE

DESIGN—
TRACE— Soils Division
CHECK—

BRIDGE NO.
SURVEY—
PLOT—

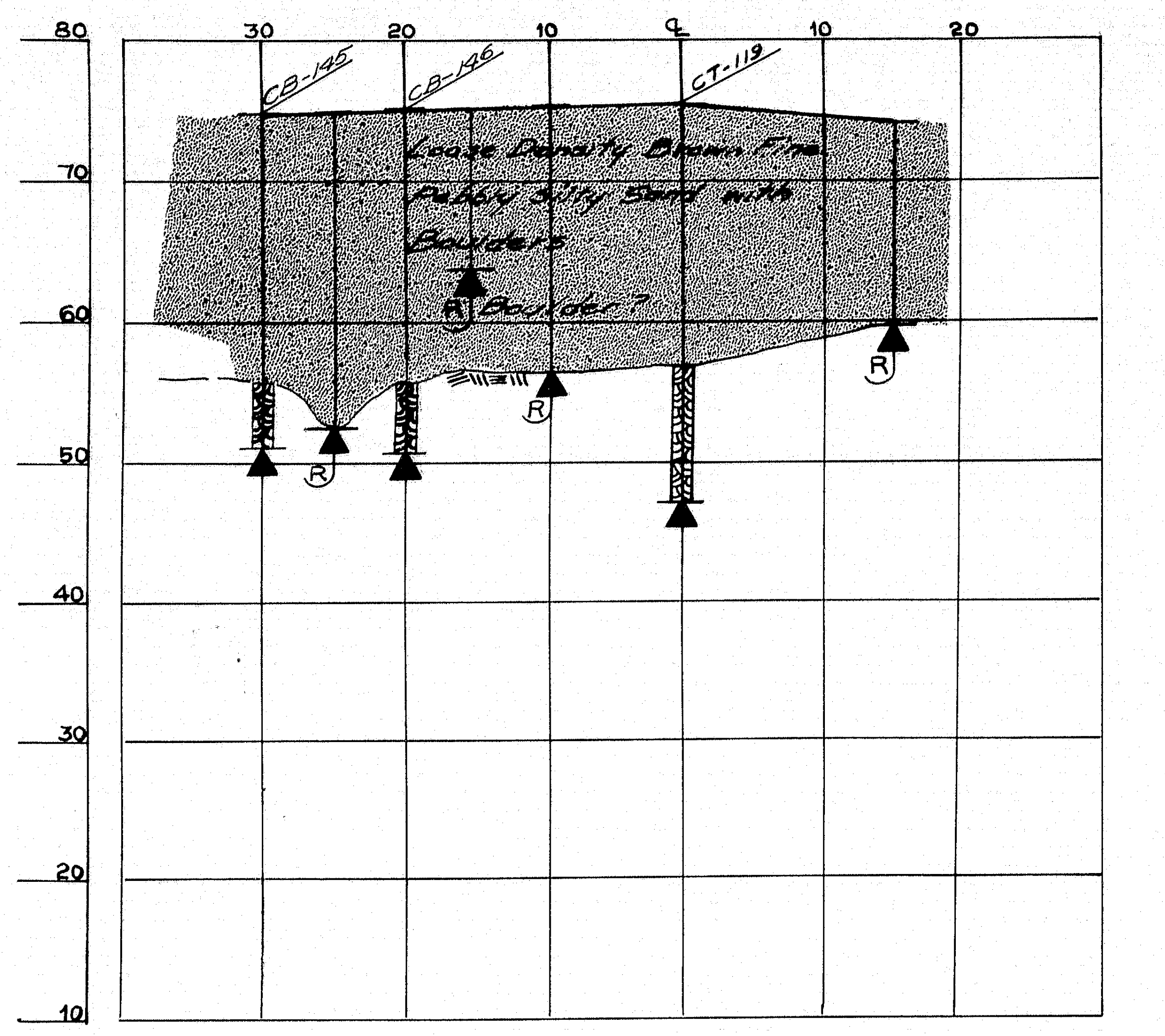
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
SANDY RIVER BRIDGE
OVER
SANDY RIVER
IN THE TOWN OF
STRONG
FRANKLIN COUNTY
FOUNDATION SURVEY
SHEET 6 OF 32 AUGUSTA, MAINE

92-15

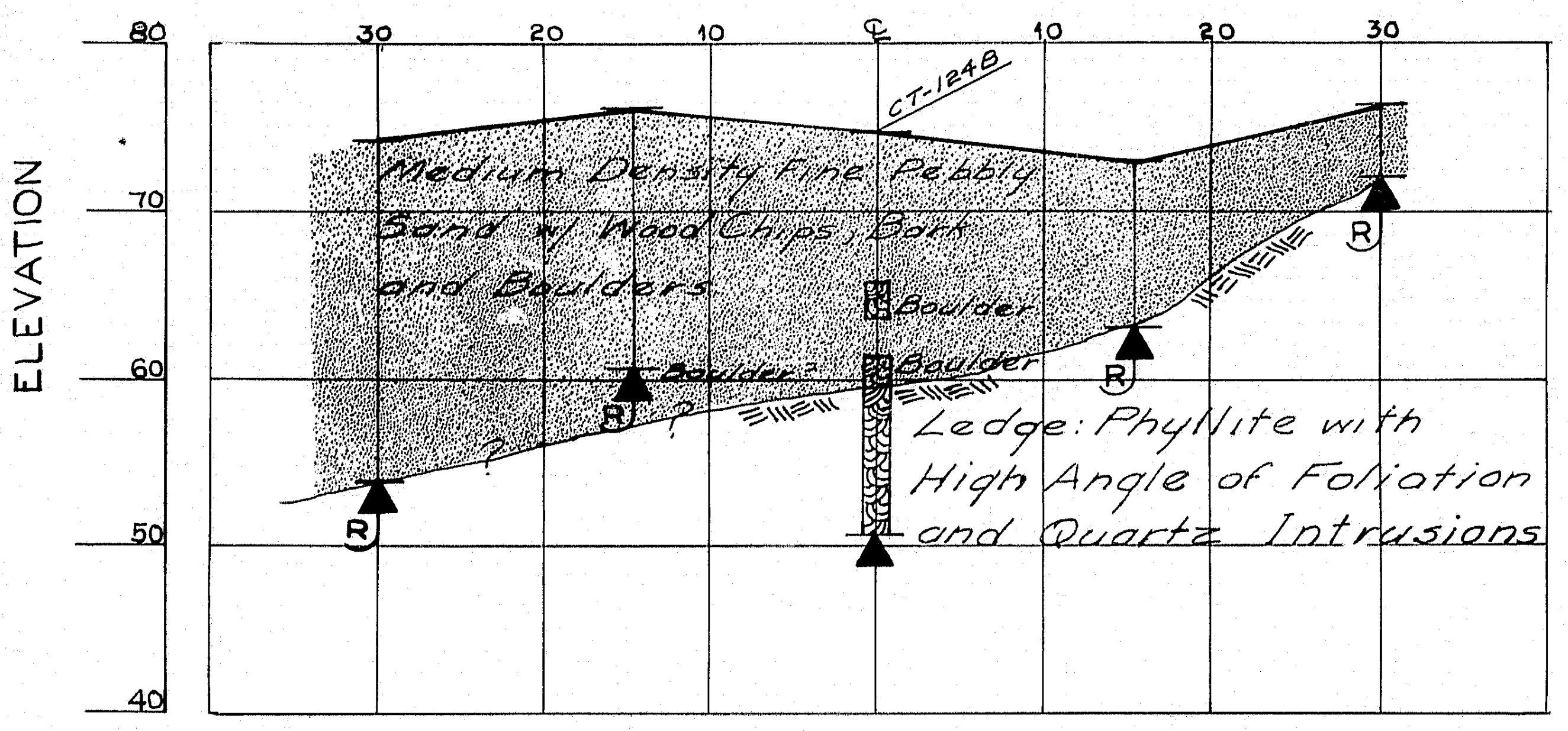
C. B. CO., NO. 44-151

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

## ABUT. #1
## TRANSVERSE SECTION

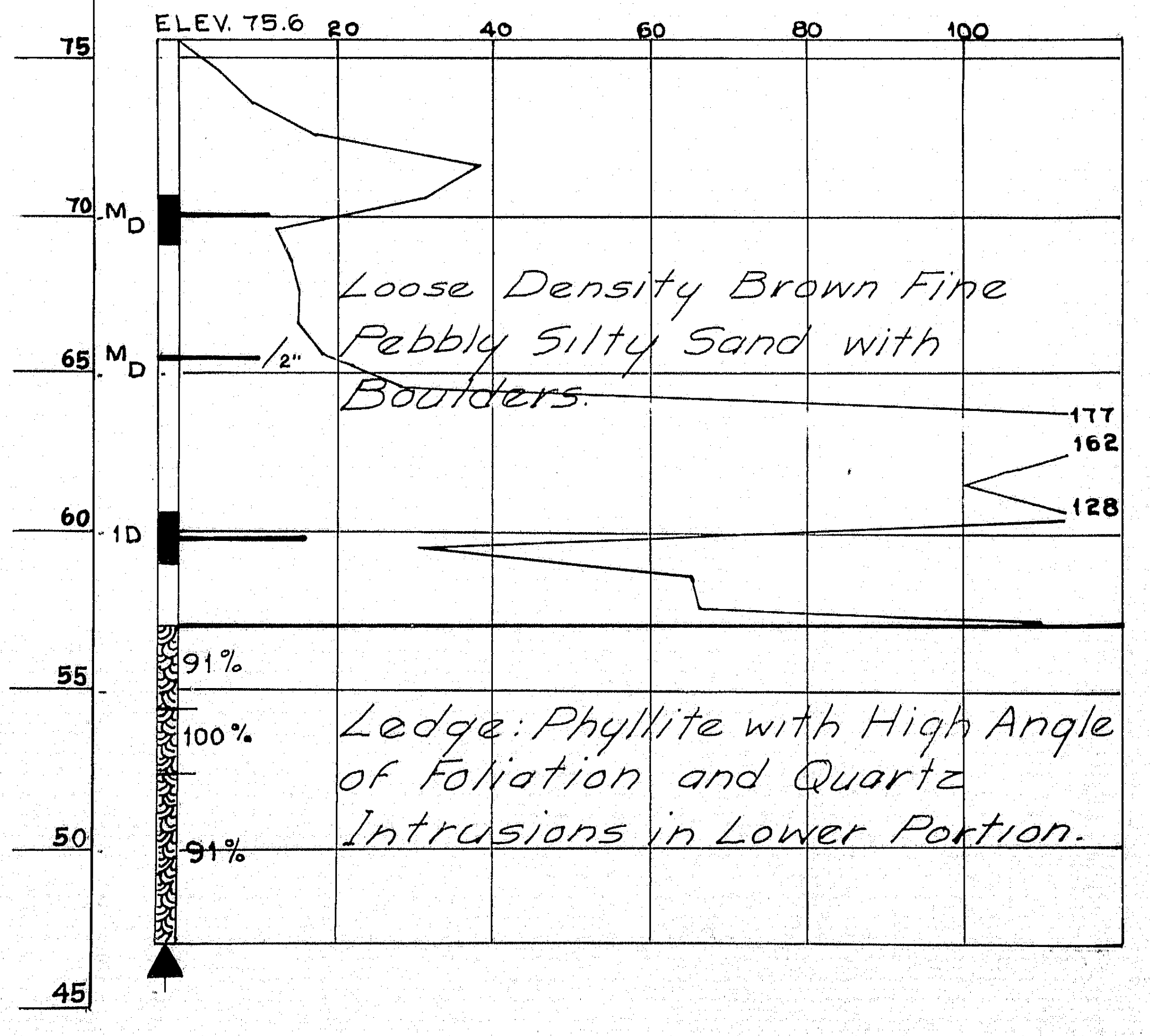


## ABUT. #2
## TRANSVERSE SECTION

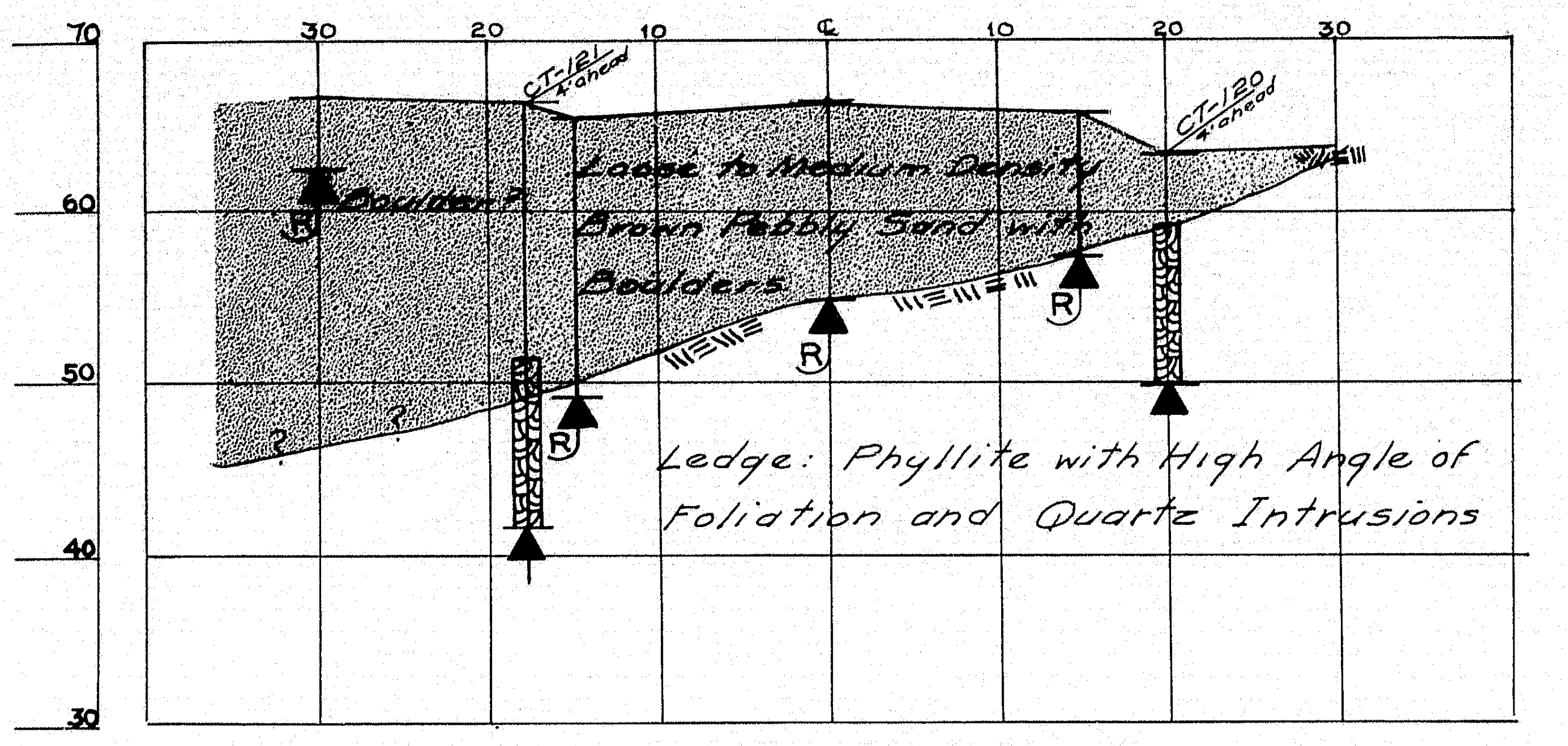


ELEVATION
80
70
60
50
40
30
20
10
℄
10
20
30
CT-124B
Medium Density Fine Pebbly Sand w/ Wood Chips, Bark and Boulders
Boulder
Boulder
Boulder?
Ledge: Phyllite with High Angle of Foliation and Quartz Intrusions
R

## BORING CT-119 STATION 17+57 ℄

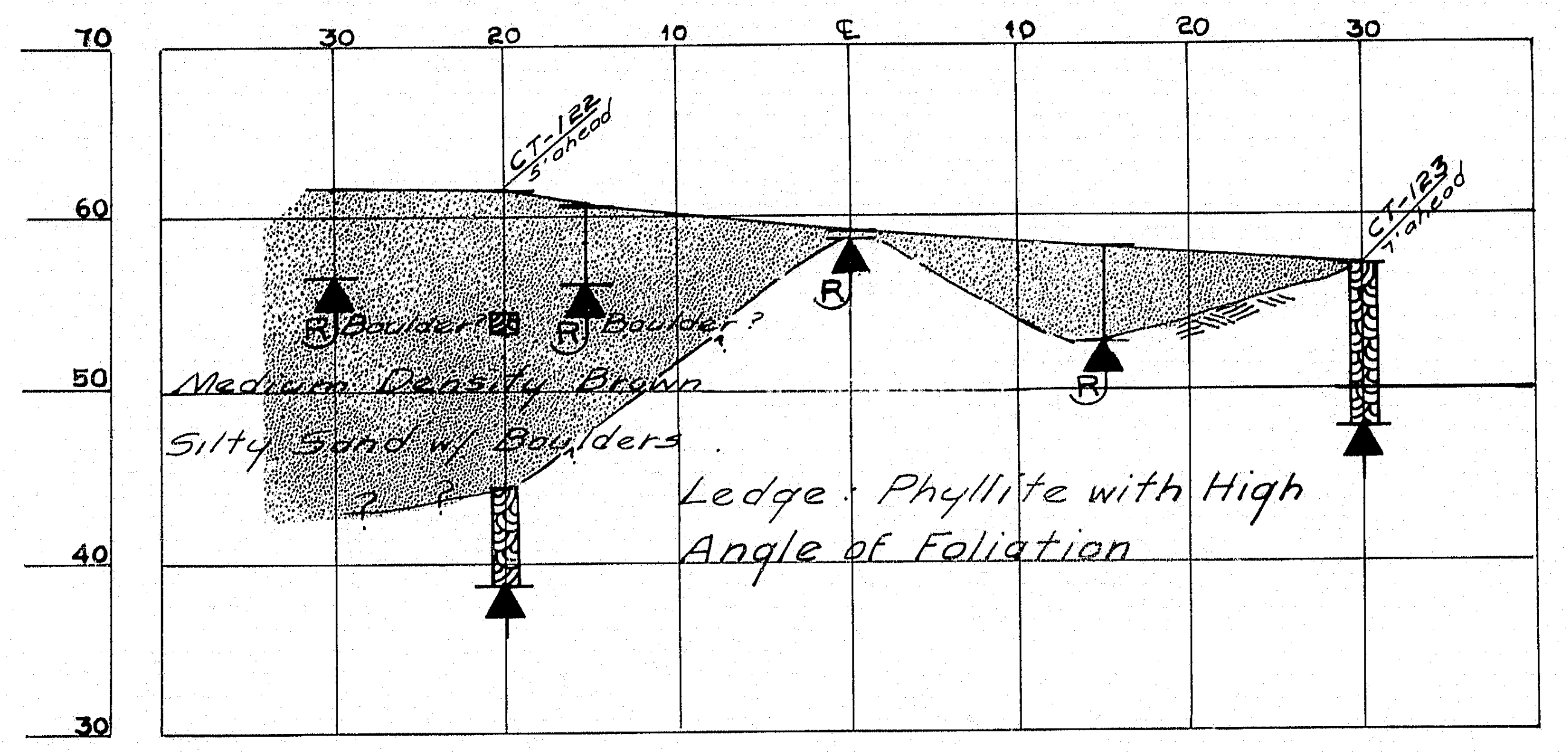


## PIER #1
## TRANSVERSE SECTION



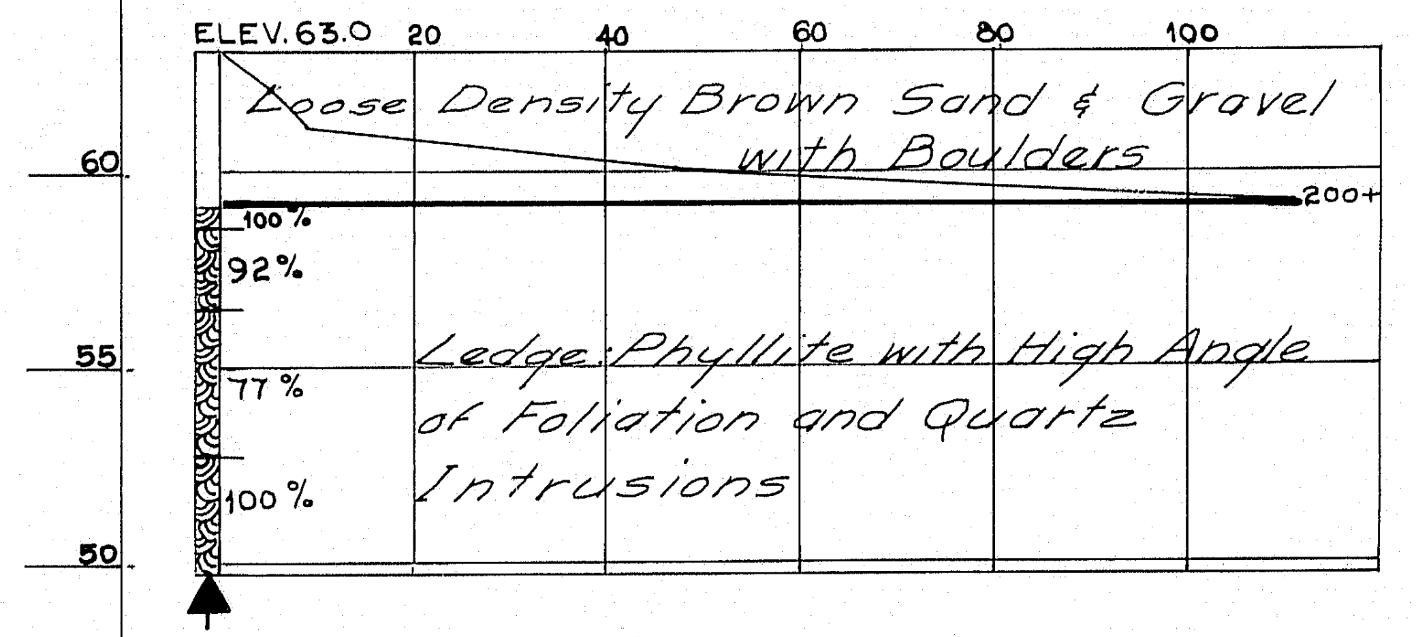
70
60
50
40
30
30
20
10
℄
10
20
30
CT-121
CT-120
Boulder?
Loose to Medium Density Brown Pebbly Sand with Boulders
R
Ledge: Phyllite with High Angle of Foliation and Quartz Intrusions

## PIER #2
## TRANSVERSE SECTION

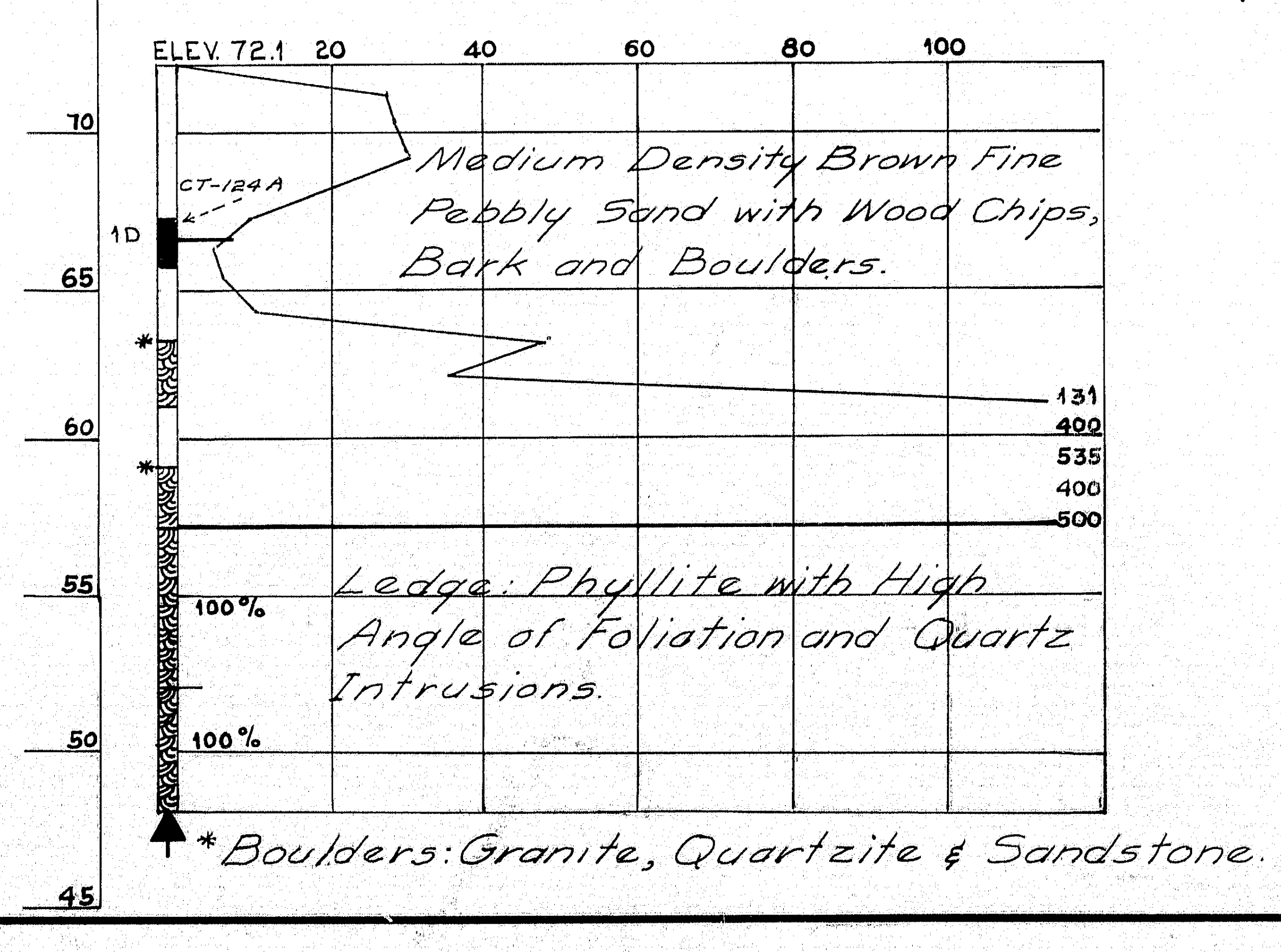


70
60
50
40
30
30
20
10
℄
10
20
30
CT-122
CT-123
Boulder
Boulder?
R
Medium Density Brown Silty Sand w/ Boulders
Ledge: Phyllite with High Angle of Foliation

## BORING CT-120 STATION 18+33 20'RT.

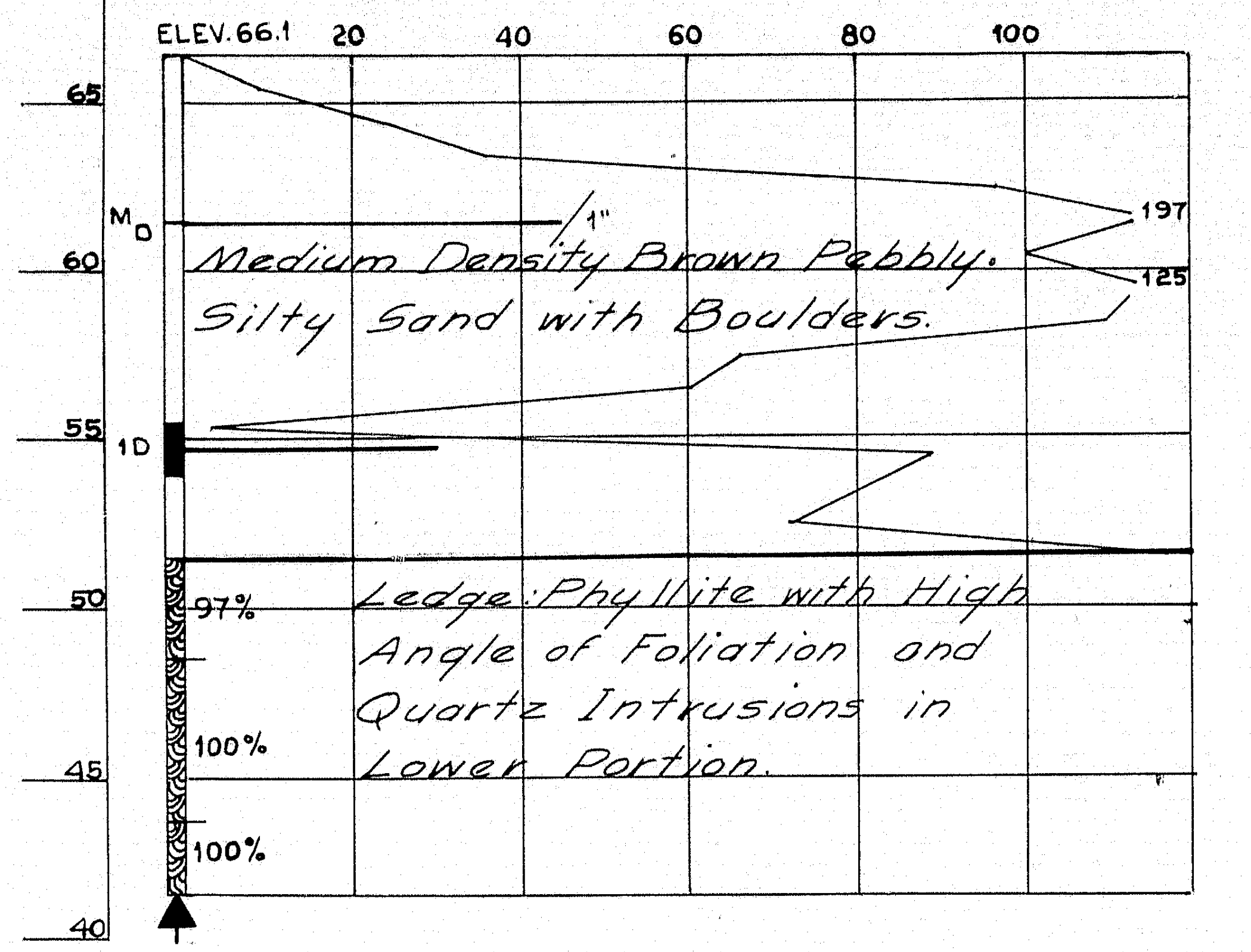


## BORING CT-124B STATION 20+28 2'LT.

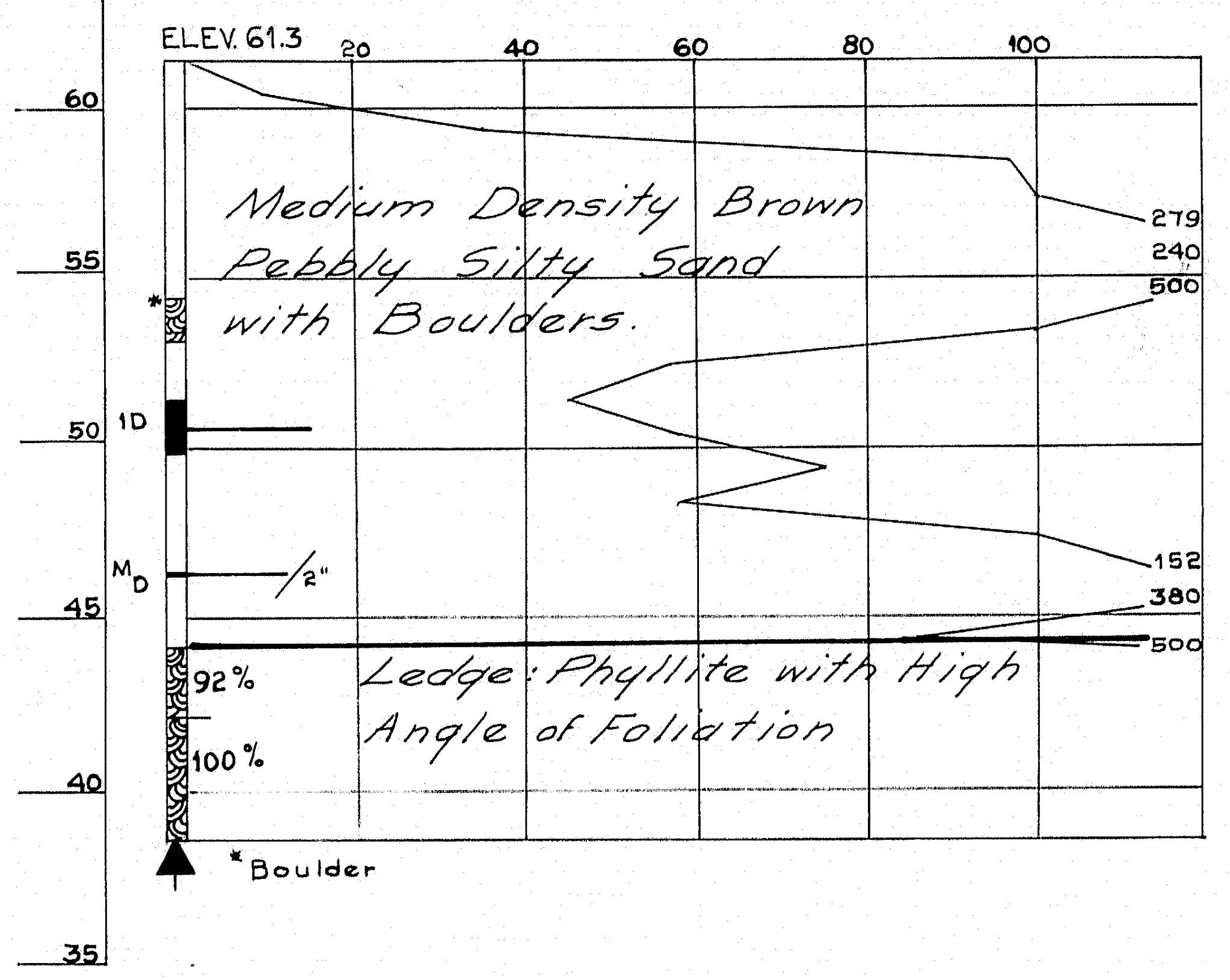


*Boulders: Granite, Quartzite & Sandstone.

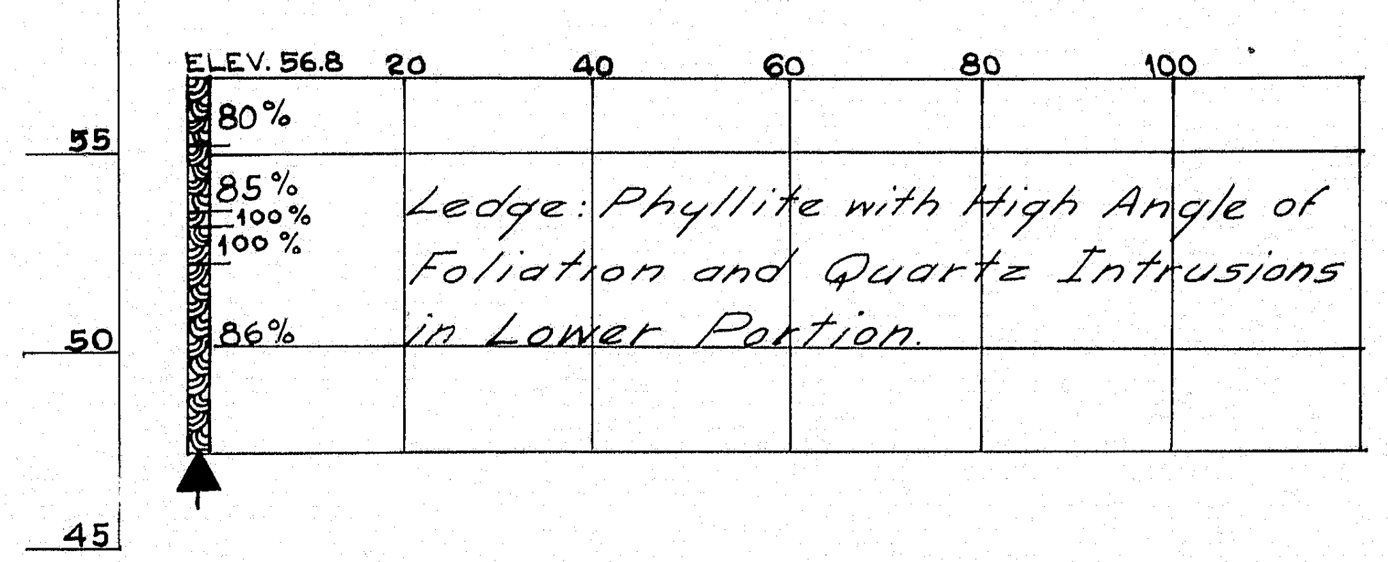
## BORING CT-121 STATION 18+55 18' LT.



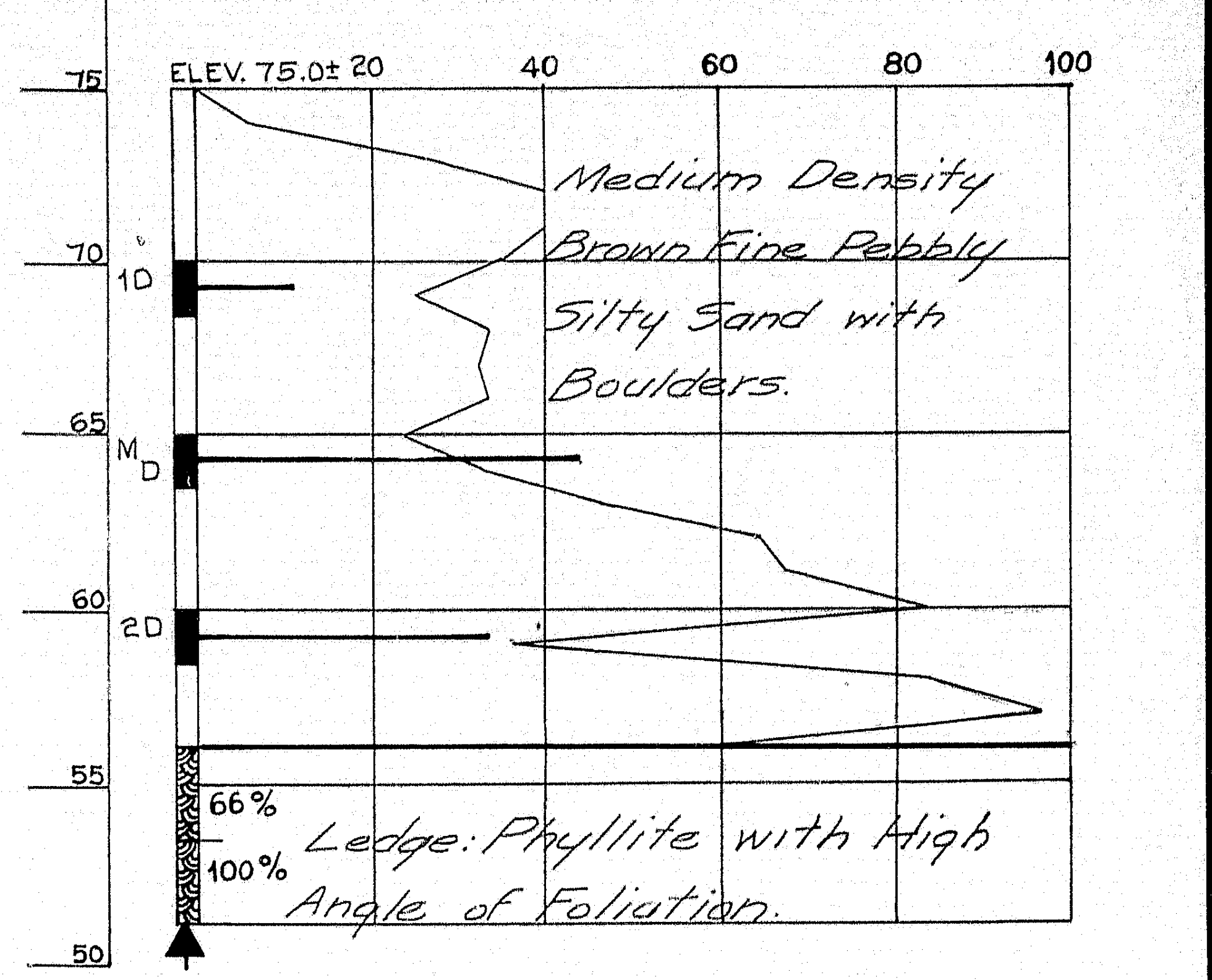
## BORING CT-122 STATION 19+62 20'LT.



## BORING CT-123 STATION 19+39 30'RT.



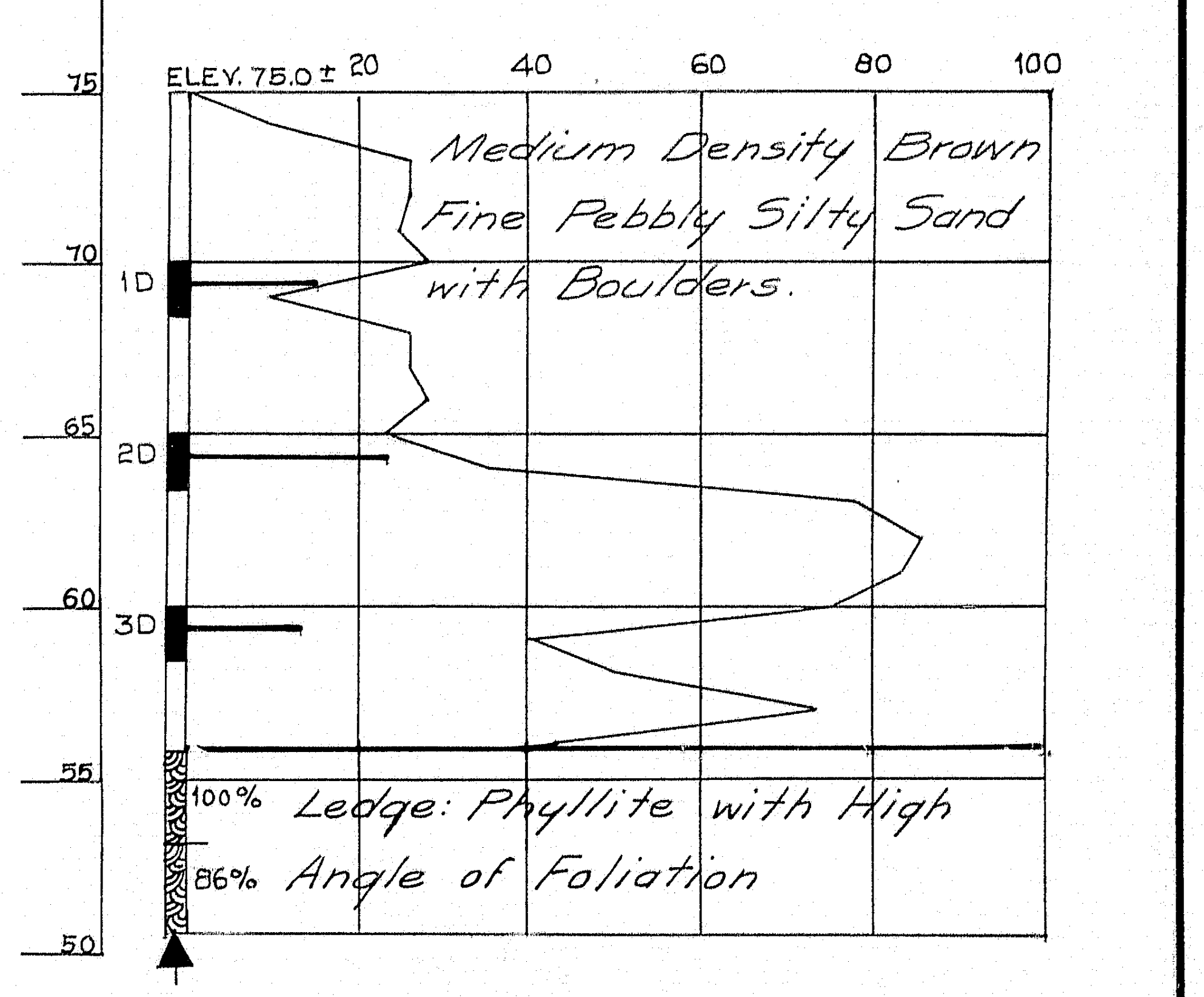
## BORING CB-145 STATION 17+72 26'LT.



### BORING NOTES

7 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
1D S & H Sampler #1290's
MD Unsuccessful sample attempt and type of sampler
Number of blows required to drive spoon or tubing one foot with 350 ft. lbs. of energy per blow
▲ Bottom of boring
R Refusal of drill rods or casing (may not be ledge)
▨ 71% Locations cored by diamond bit and percent recovery of rock

## BORING CB-146 STATION 17+65 20'LT.

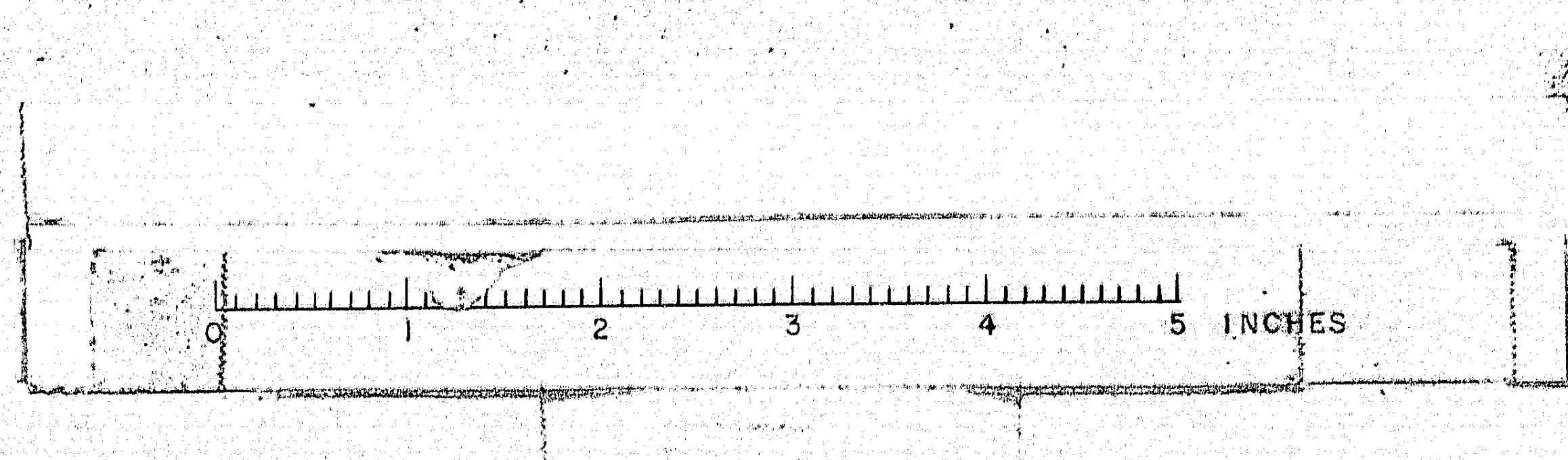


DESIGN— TRACE— CHECK— } Soils Division
BRIDGE NO.
SURVEY—
PLOT—

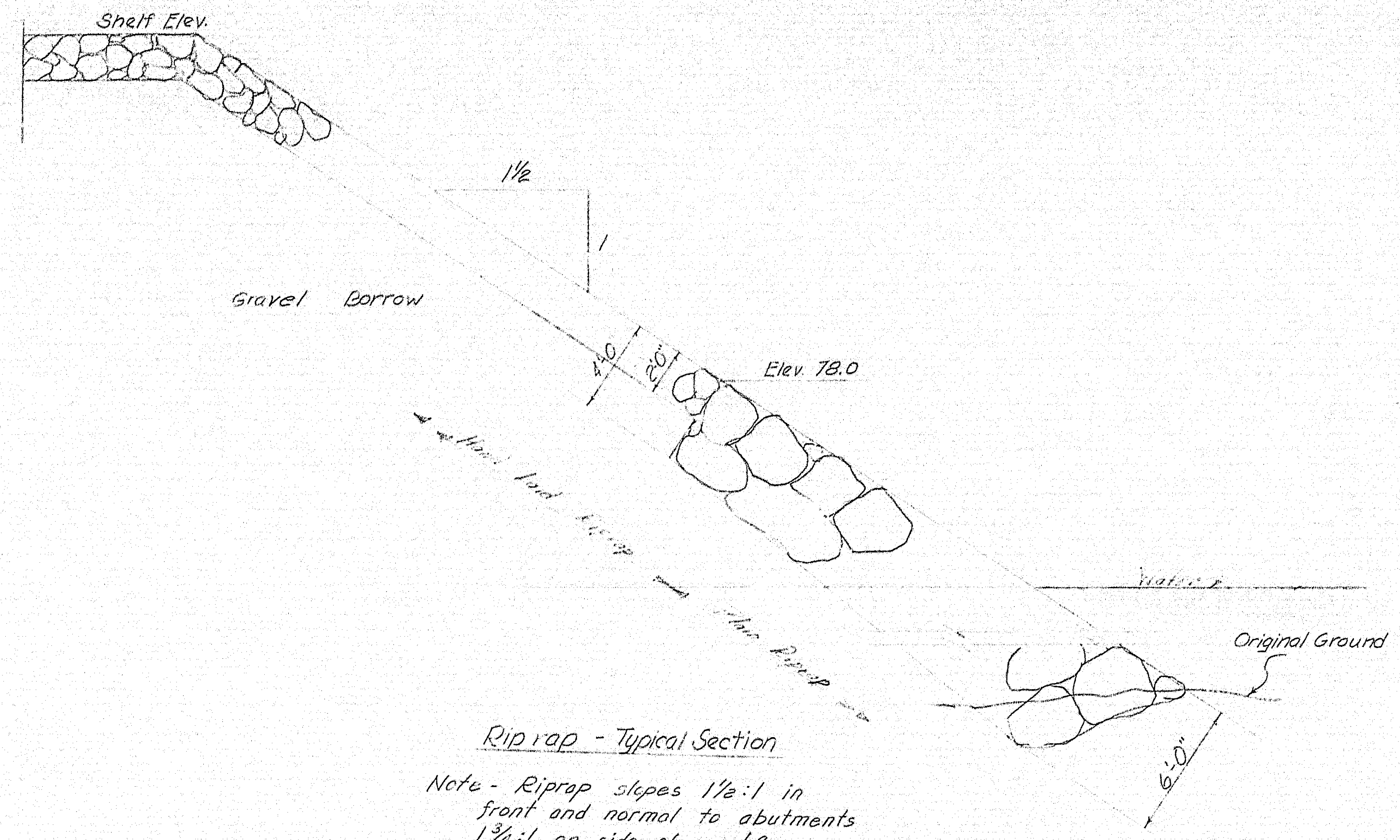
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
SANDY RIVER BRIDGE
OVER
SANDY RIVER
IN THE TOWN OF
STRONG
FRANKLIN COUNTY
FOUNDATION SURVEY
SHEET 7 OF 32 AUGUSTA, MAINE

92-16

C. B. CO., NO. 44-131 26720

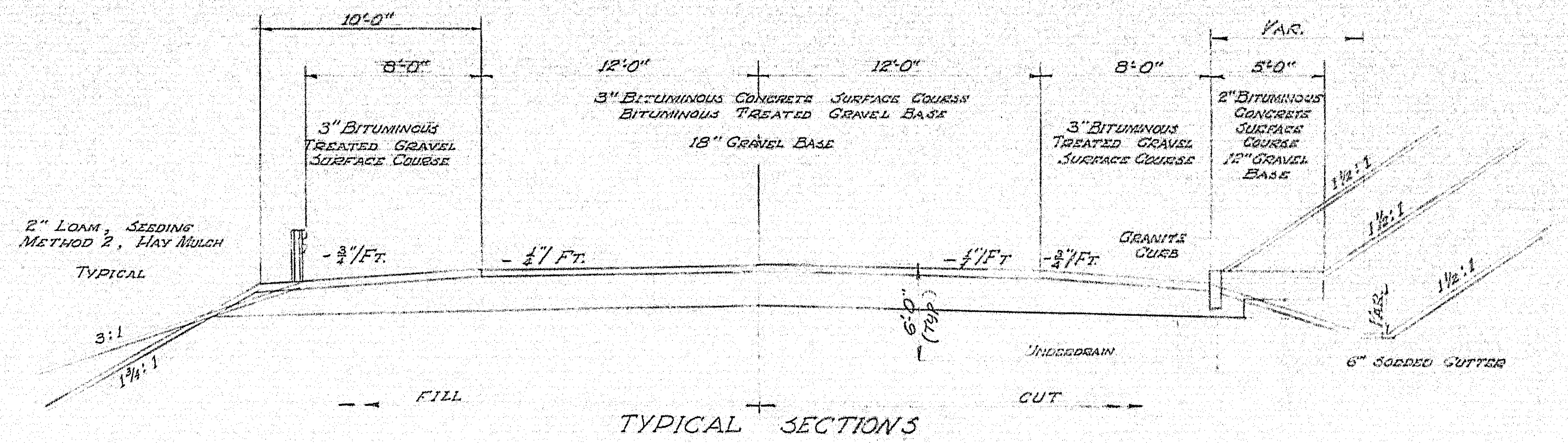


| B. P. R. REG. NO. | STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | | | |

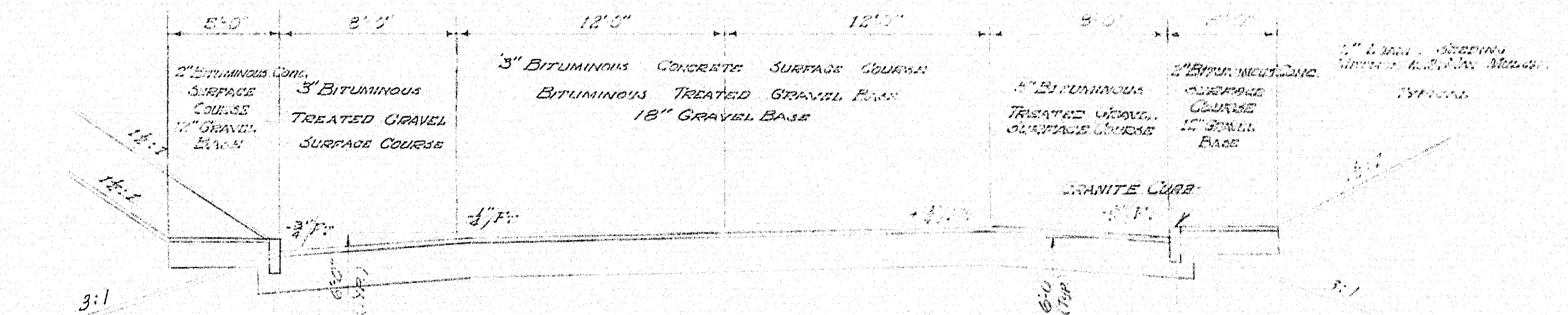


Rip rap - Typical Section

Note - Riprap slopes 1½:1 in
front and normal to abutments
1¾:1 on side slopes (See
Sheet #1 "General Plan and
Elevation")


10'0"
8'0"
12'0"
12'0"
8'0"
VAR.
5'0"
3" BITUMINOUS TREATED GRAVEL SURFACE COURSE
3" BITUMINOUS CONCRETE SURFACE COURSE
BITUMINOUS TREATED GRAVEL BASE
18" GRAVEL BASE
3" BITUMINOUS TREATED GRAVEL SURFACE COURSE
2" BITUMINOUS CONCRETE SURFACE COURSE 12" GRAVEL BASE
2" LOAM, SEEDING METHOD 2, HAY MULCH
TYPICAL
- ¾"/FT.
- ¼"/FT.
- ¼"/FT
- ¾"/FT.
GRANITE CURB
3:1
1¾:1
6'0" (TYP.)
UNDERDRAIN
1½:1
1½:1
1½:1
VAR.
6" SODDED GUTTER
FILL
CUT

TYPICAL SECTIONS


5'0"
8'0"
12'0"
12'0"
8'0"
2" BITUMINOUS CONC. SURFACE COURSE 12" GRAVEL BASE
3" BITUMINOUS TREATED GRAVEL SURFACE COURSE
3" BITUMINOUS CONCRETE SURFACE COURSE
BITUMINOUS TREATED GRAVEL BASE
18" GRAVEL BASE
3" BITUMINOUS TREATED GRAVEL SURFACE COURSE
2" BITUMINOUS CONC. SURFACE COURSE 12" GRAVEL BASE
2" LOAM, SEEDING METHOD 2, HAY MULCH
TYPICAL
GRANITE CURB
1½:1
1½:1
3:1
-¾"/FT.
¼"/FT.
6'0" (TYP.)

SUPERELEVATED
TYPICAL SECTION

Note: 3" Bituminous Concrete for roadway
to be Type "A"
2" Bituminous Concrete for sidewalks
to be Type "A" (Hand Placed)

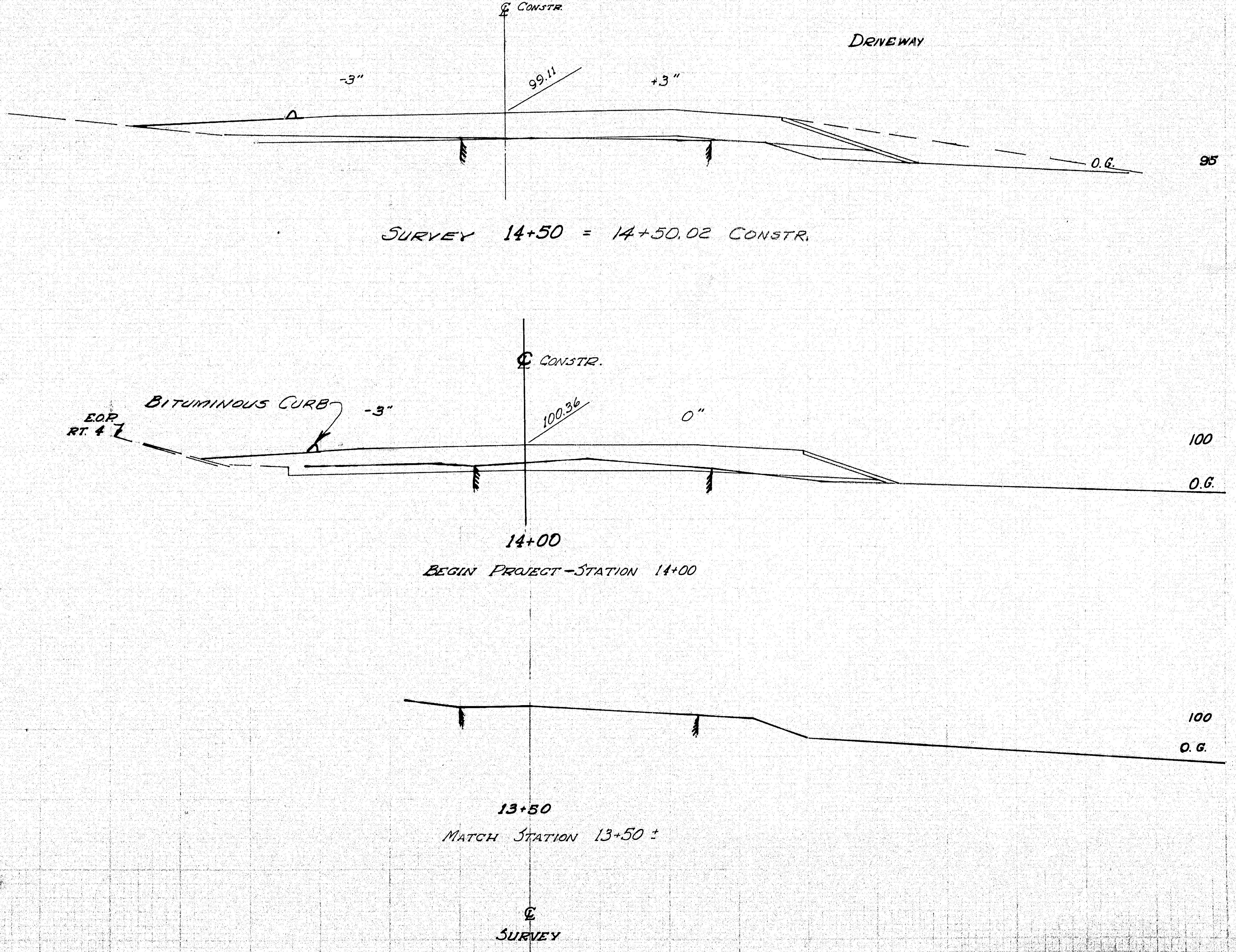
DESIGN- J.F.M.
TRACE- J.F.M.
CHECK- DORITY

BRIDGE NO. 5161
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
SANDY RIVER BRIDGE
OVER
SANDY RIVER
IN THE TOWN OF
STRONG
FRANKLIN COUNTY
TYPICAL SECTIONS
SHEET 8 OF 32 AUGUSTA, MAINE May 1964

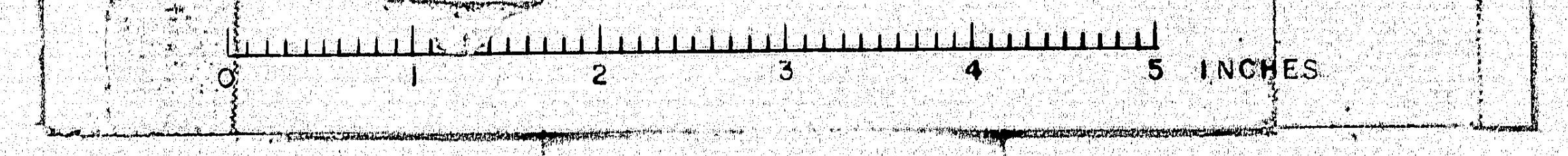
92-17

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

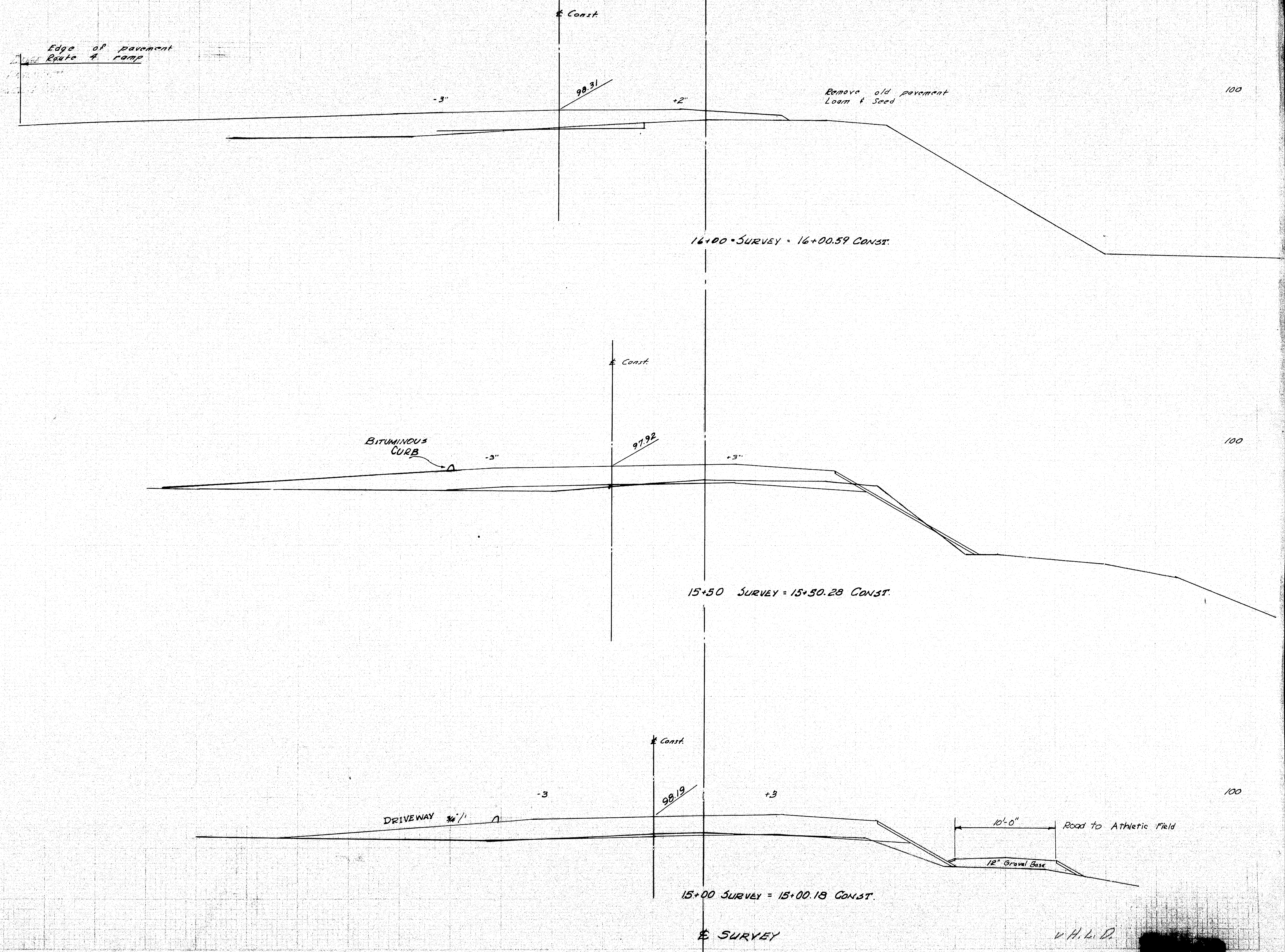


STA. 13+50 TO 14+50

SANDY RIVER B[redacted] 8 of 32



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



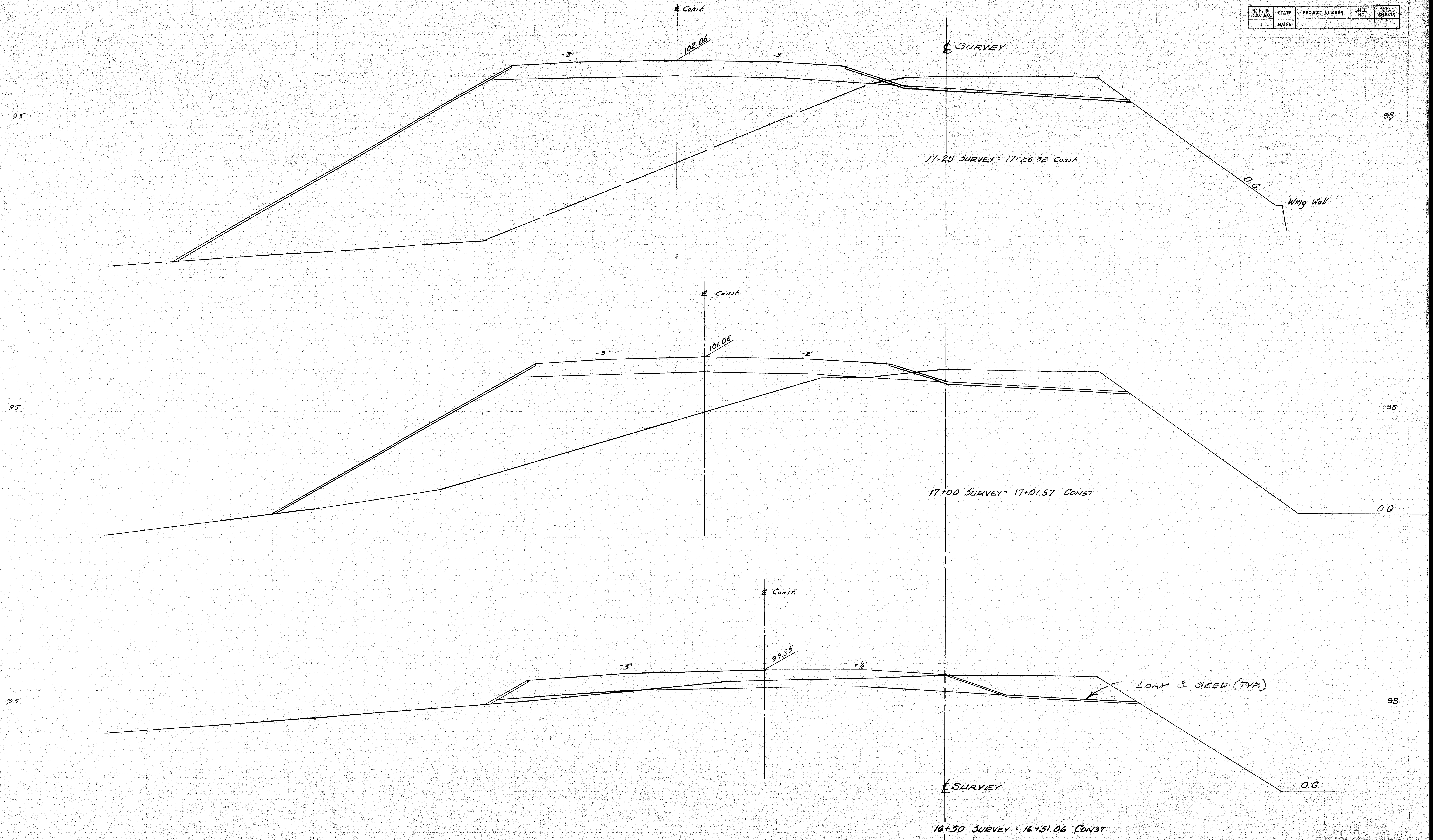
v. H. L. D.

STA. 15+00 TO 16+00

SANDY RIVER BRIDGE [redacted] 10 of 32

0 1 2 3 4 5 INCHES

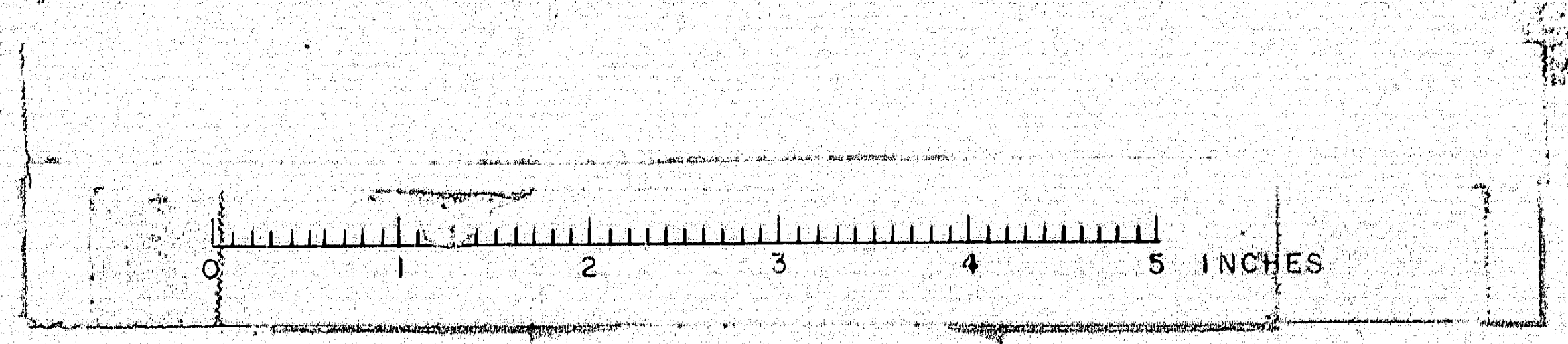
| B. P. R. REG. NO. | STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | | | |



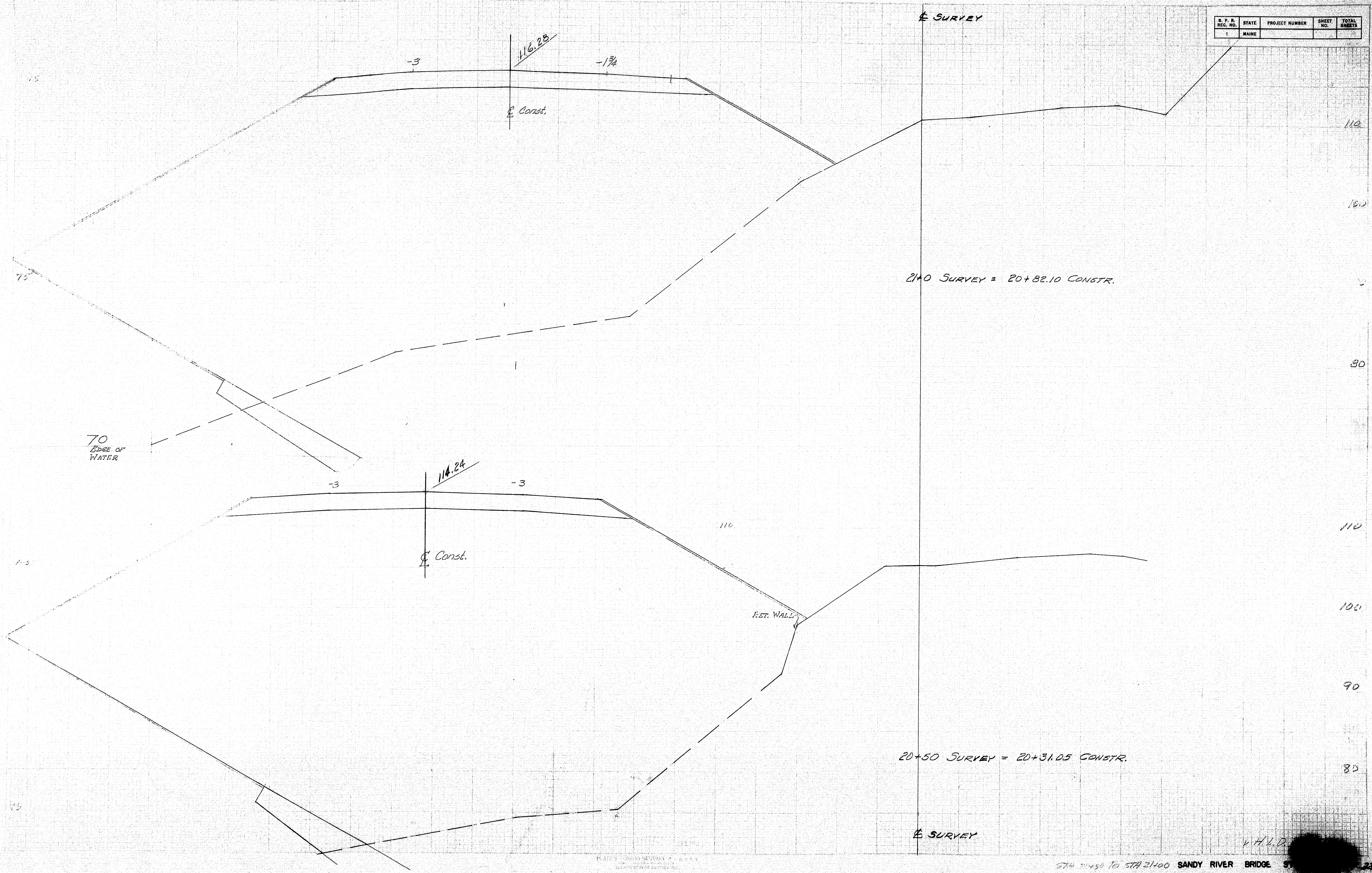
v H.L.D.

STA. 16+50 TO 17+25

**SANDY RIVER BRIDGE [illegible] 11 of 32**



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

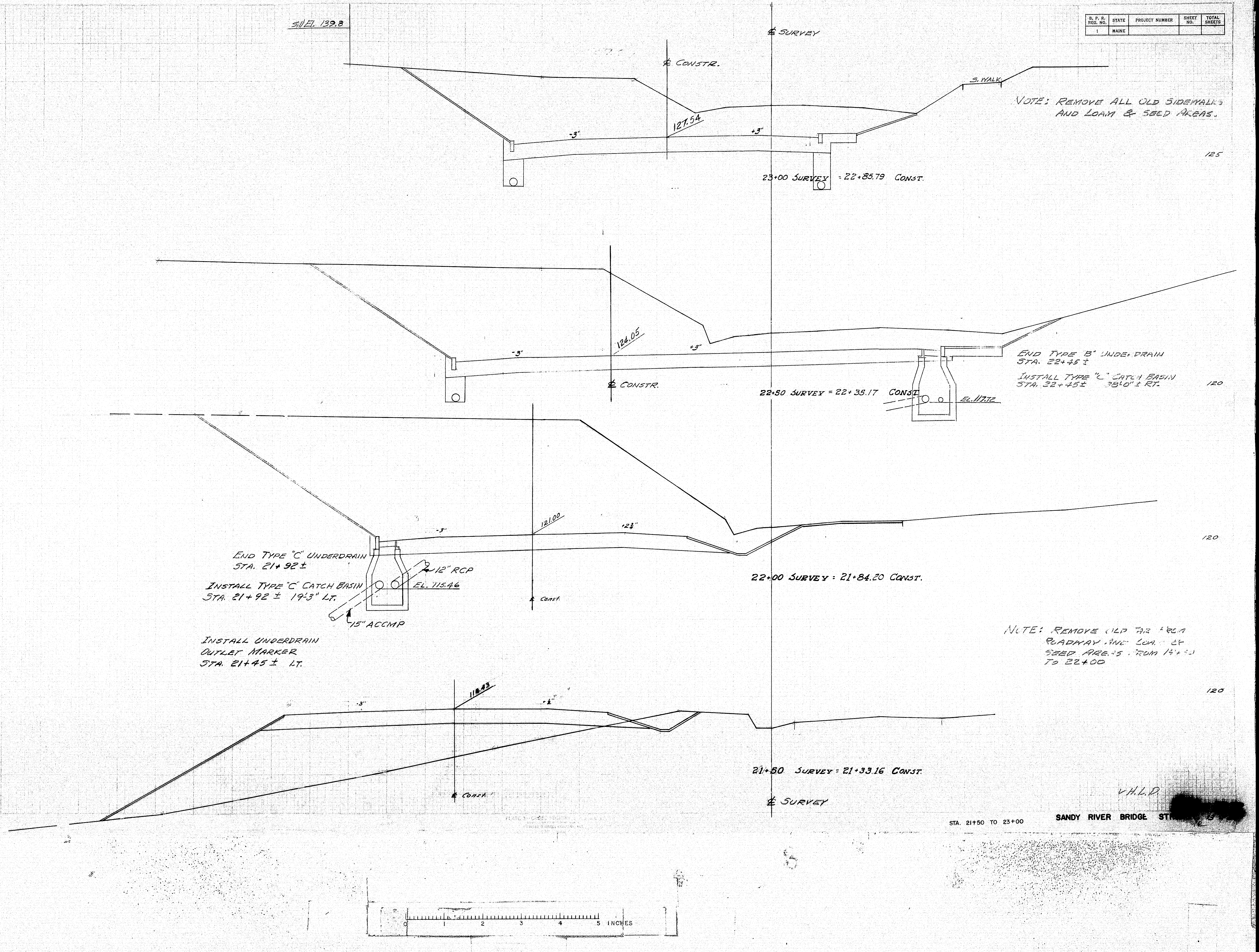


H.L.D.

STA 20+50 TO STA 21+00 **SANDY RIVER BRIDGE** ST[illegible] 22

0 1 2 3 4 5 INCHES

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



NOTE: REMOVE ALL OLD SIDEWALKS
AND LOAM & SEED AREAS.

END TYPE "B" UNDERDRAIN
STA. 22+45 ±

INSTALL TYPE "C" CATCH BASIN
STA. 22+45± 38'-0" ± RT.

END TYPE "C" UNDERDRAIN
STA. 21+92 ±

INSTALL TYPE "C" CATCH BASIN
STA. 21+92 ± 19'-3" LT.

INSTALL UNDERDRAIN
OUTLET MARKER
STA. 21+45 ± LT.

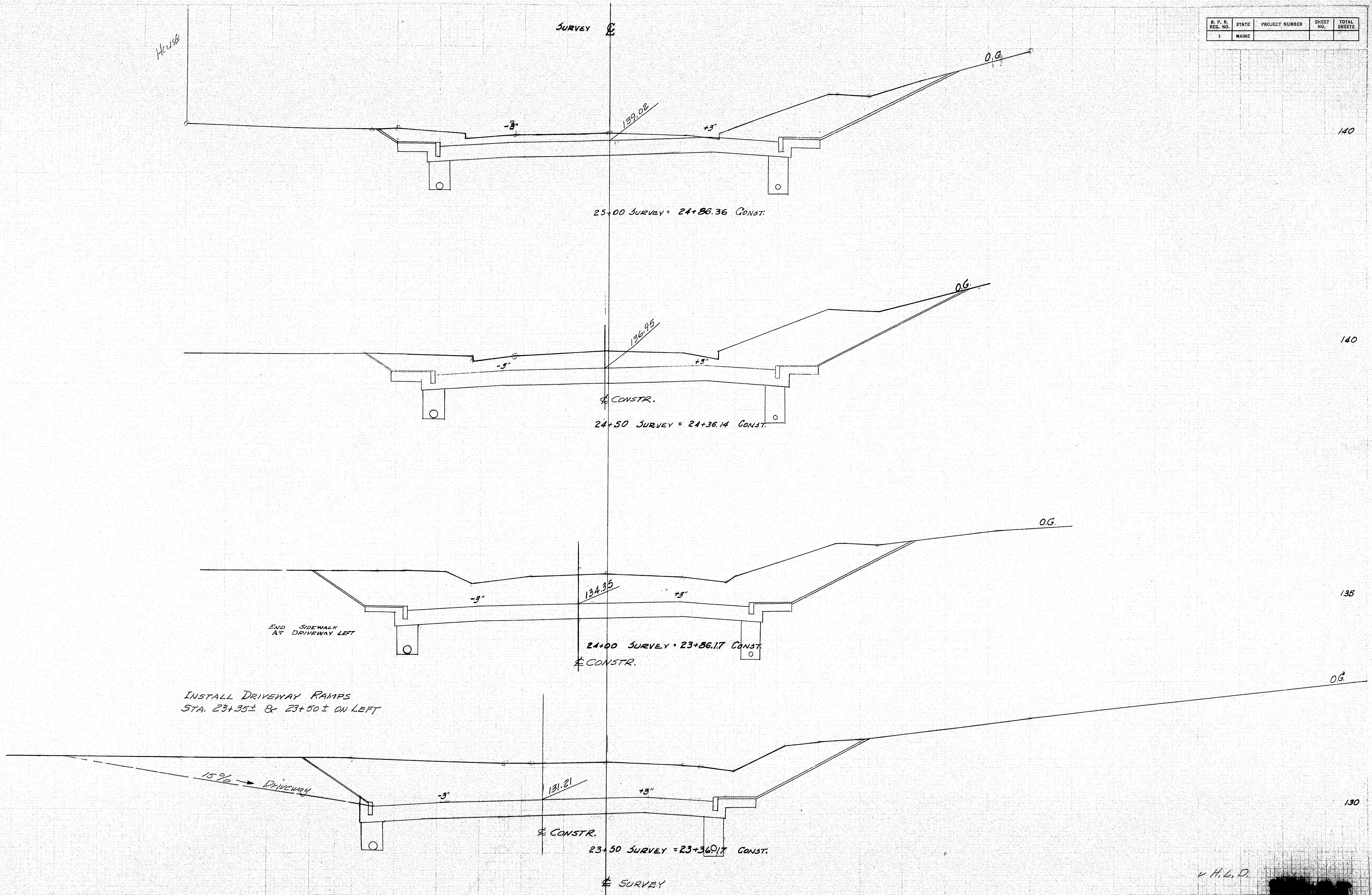
NOTE: REMOVE OLD TAR FROM
ROADWAY AND LOAM &
SEED AREAS FROM 15+50
TO 22+00

V H.L.D.

STA. 21+50 TO 23+00

**SANDY RIVER BRIDGE ST**[illegible]

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



25+00 Survey = 24+86.36 Const.

24+50 Survey = 24+36.14 Const.

End Sidewalk
At Driveway Left

24+00 Survey = 23+86.17 Const.

Install Driveway Ramps
Sta. 23+35± & 23+50± on Left

23+50 Survey = 23+36.17 Const.

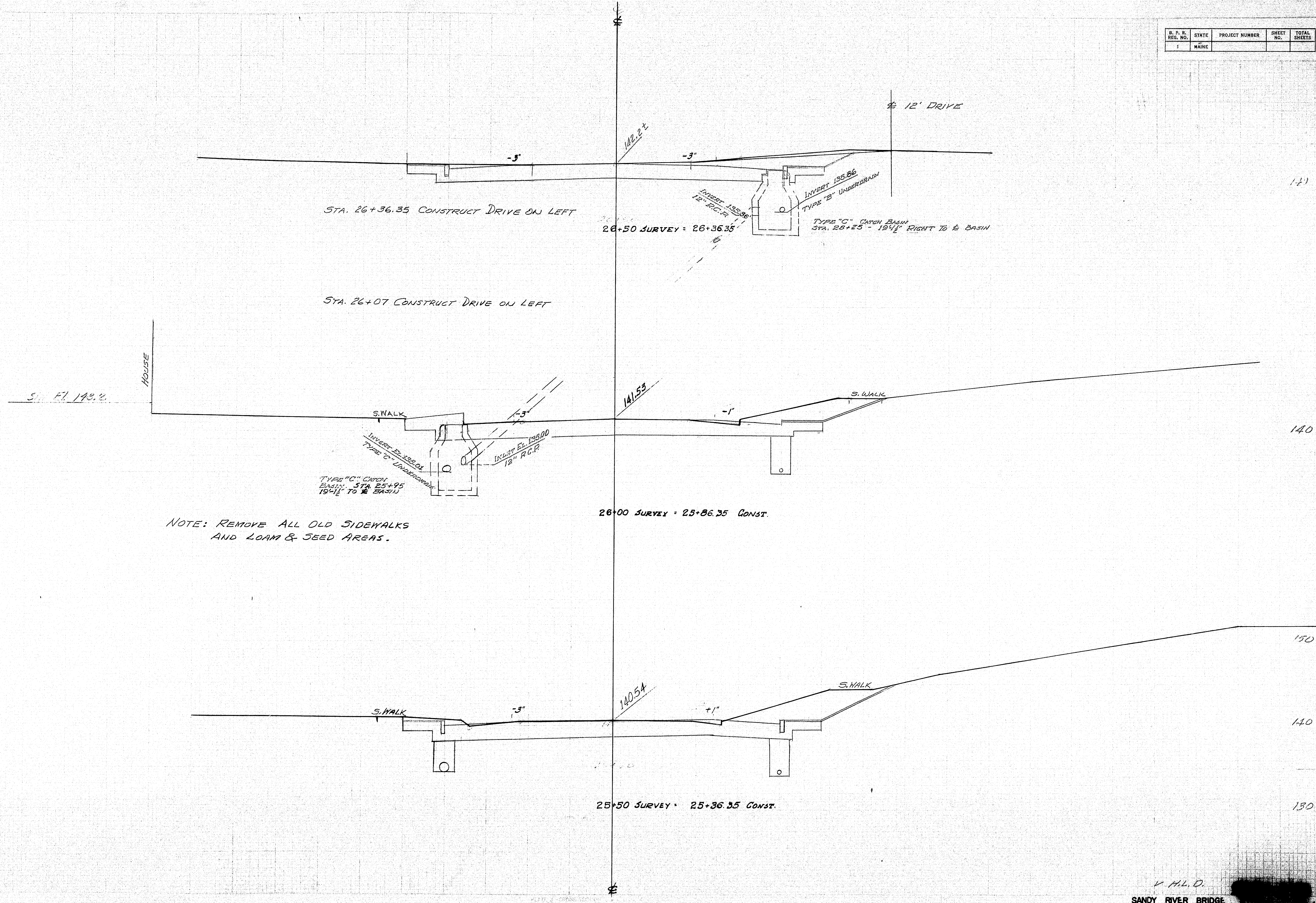
✓ H.L.D.

[redacted]

STA. 23+50 TO 25+00 **SANDY RIVER BRIDGE** STRONG 14 of 32

0 1 2 3 4 5 INCHES

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



STA. 26+36.35 CONSTRUCT DRIVE ON LEFT

26+50 SURVEY = 26+36.35

STA. 26+07 CONSTRUCT DRIVE ON LEFT

NOTE: REMOVE ALL OLD SIDEWALKS
AND LOAM & SEED AREAS.

26+00 SURVEY = 25+86.35 CONST.

25+50 SURVEY = 25+36.35 CONST.

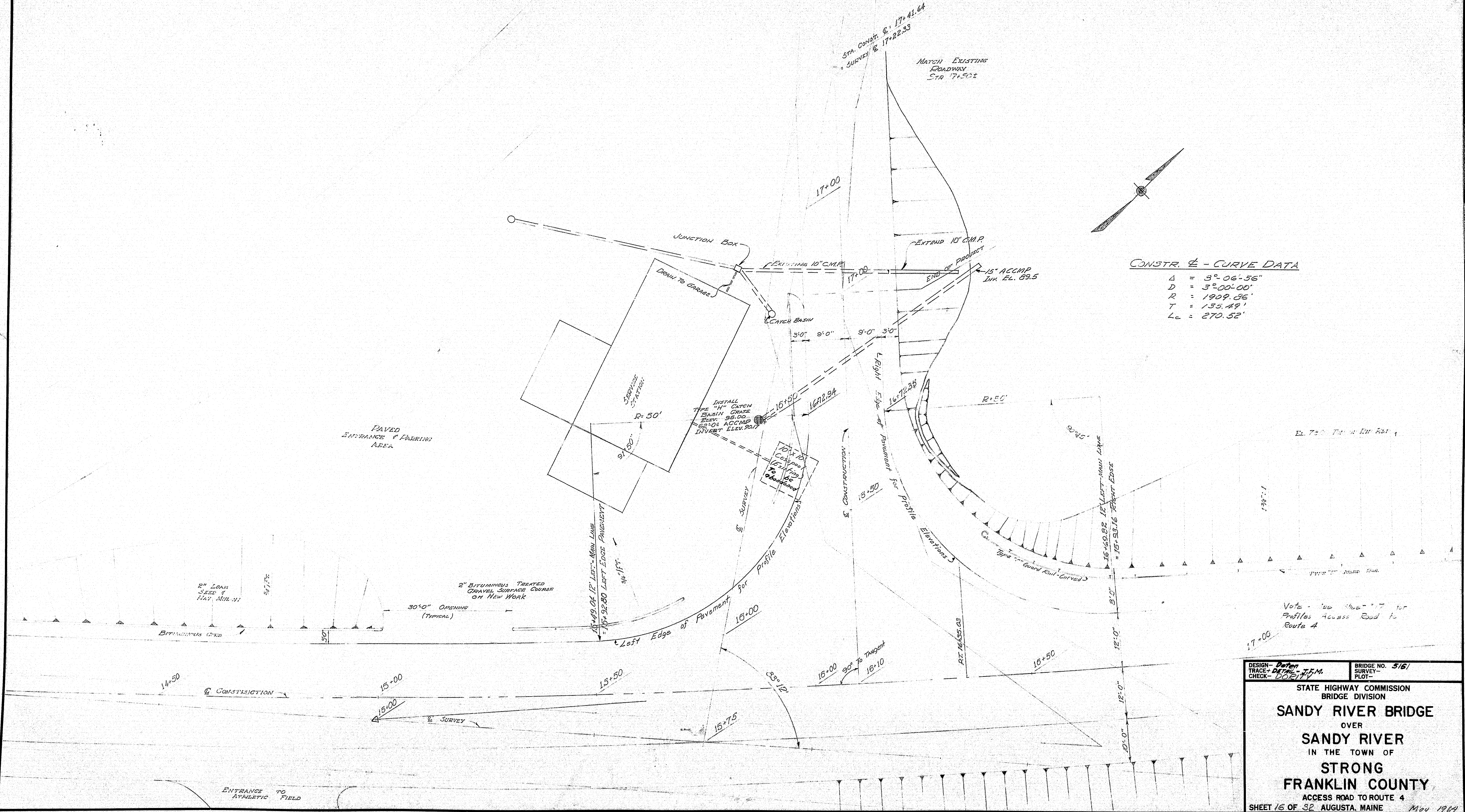
V H.L.D.

STA. 25+50 TO 26+50

**SANDY RIVER BRIDGE** [redacted] 32

0 1 2 3 4 5 INCHES

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



CONSTR. ℄ - CURVE DATA

Δ = 3°-06'-56"
D = 3°-00'-00'
R = 1909.86'
T = 135.49'
Lc = 270.52'

Note - See Sheet 17 for Profiles Access Road to Route 4

DESIGN- Doten
TRACE+ DETAIL- J.F.M.
CHECK- DORITY

BRIDGE NO. 5161
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

## SANDY RIVER BRIDGE

OVER

## SANDY RIVER

IN THE TOWN OF

## STRONG
## FRANKLIN COUNTY

ACCESS ROAD TO ROUTE 4

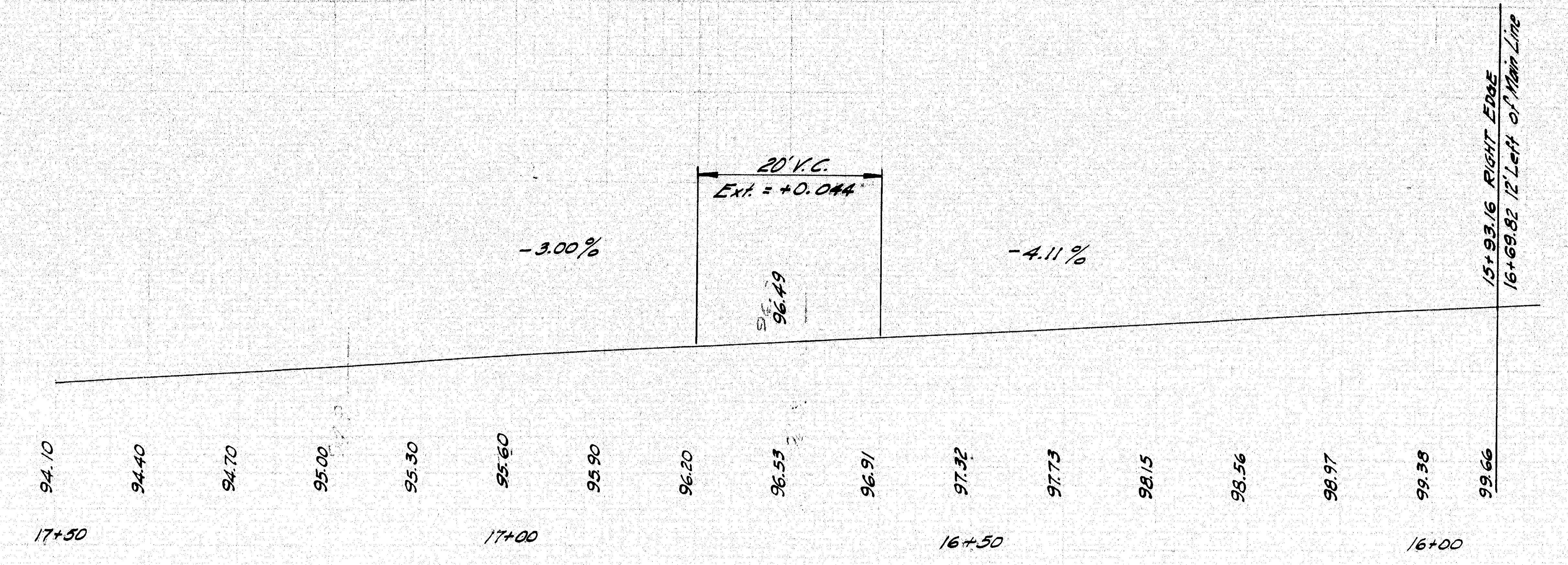
SHEET 16 OF 32 AUGUSTA, MAINE May 1964

C. B. CO., NO. 44-131 26726

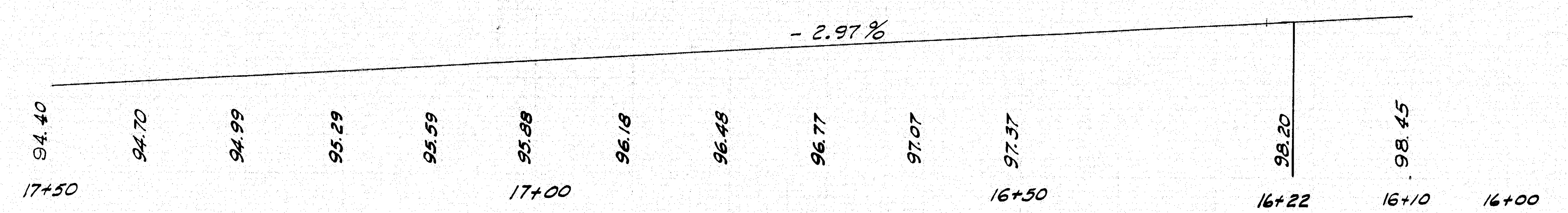
92-25

0 1 2 3 4 5 INCHES

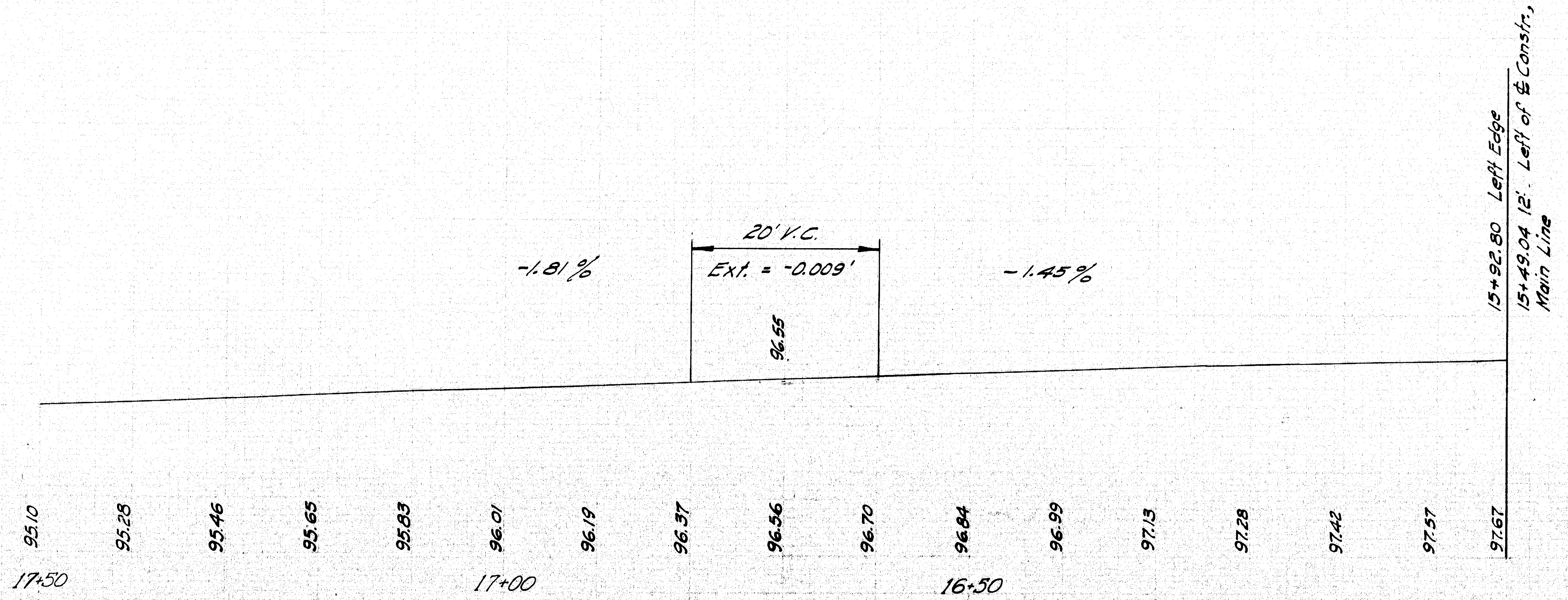
| B. P. R. REG. NO. | STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | | | |



RIGHT EDGE OF PAVEMENT



℄ OF PAVEMENT



LEFT EDGE OF PAVEMENT

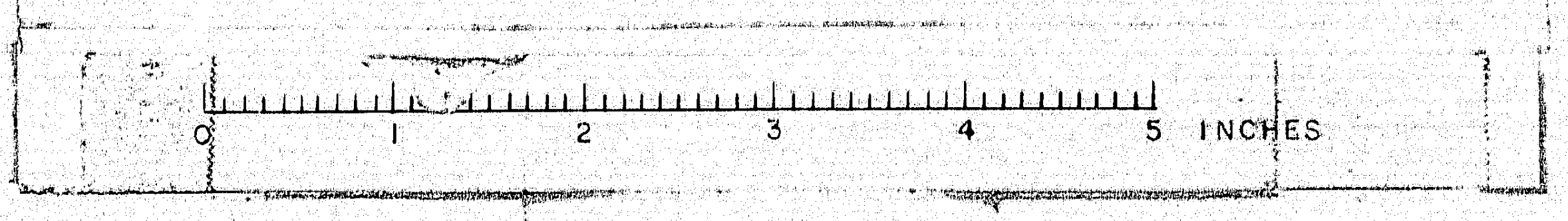
DESIGN - Doten
TRACE & DETAIL - J.F.M.
CHECK - DORITY

BRIDGE NO. - 5161
SURVEY -
PLOT -

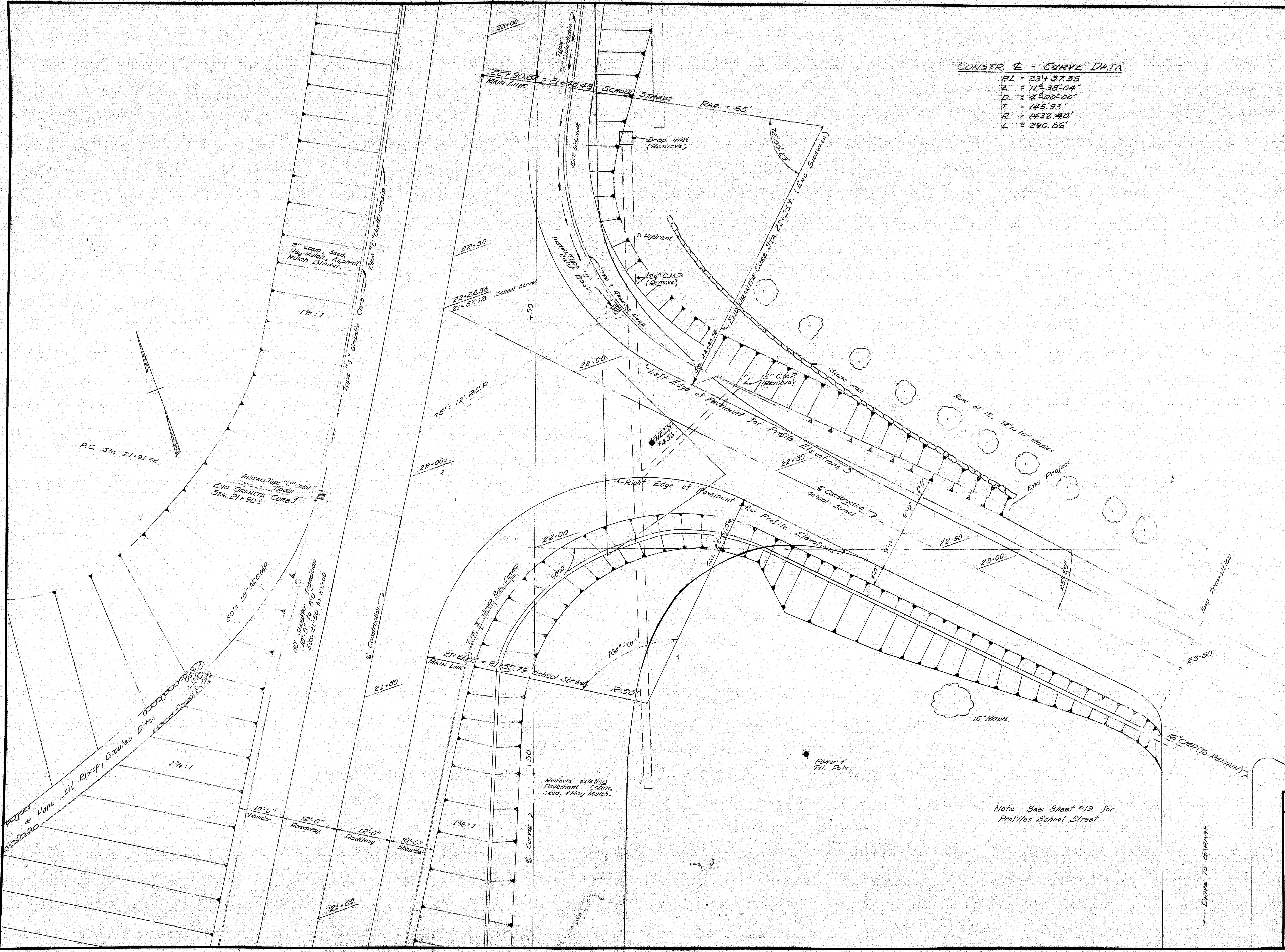
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

# SANDY RIVER BRIDGE
OVER
# SANDY RIVER
IN THE TOWN OF
# STRONG
# FRANKLIN COUNTY
PROFILES - ACCESS ROAD TO ROUTE 4

SHEET 17 OF 32 AUGUSTA, MAINE May 1964



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



CONSTR. ℄ - CURVE DATA

P.I. = 23+37.35
Δ = 11°-38'-04"
D = 4°-00'-00"
T = 145.93'
R = 1432.40'
L = 290.86'

Note - See Sheet #19 for Profiles School Street

DESIGN- Doten
TRACE + DETAIL - J.F.M.
CHECK- DORITY

BRIDGE NO. 5161
SURVEY-
PLOT-

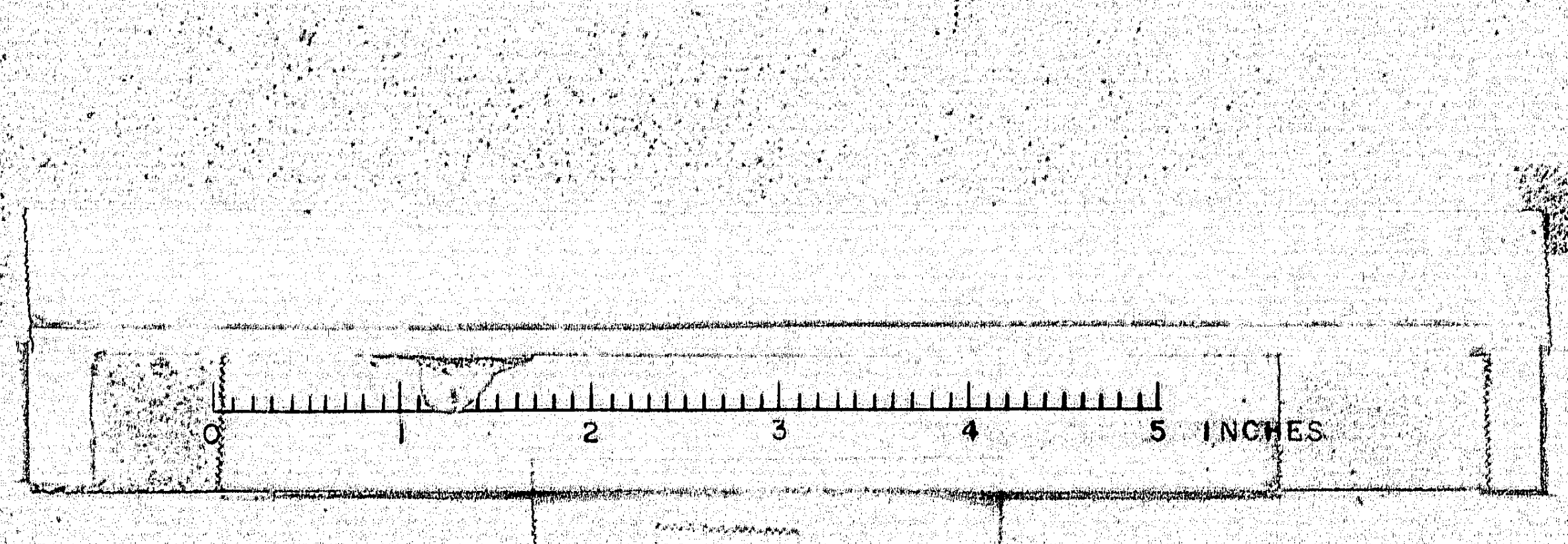
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

## SANDY RIVER BRIDGE
OVER
## SANDY RIVER
IN THE TOWN OF
## STRONG
## FRANKLIN COUNTY
SCHOOL ST. INTERSECTION

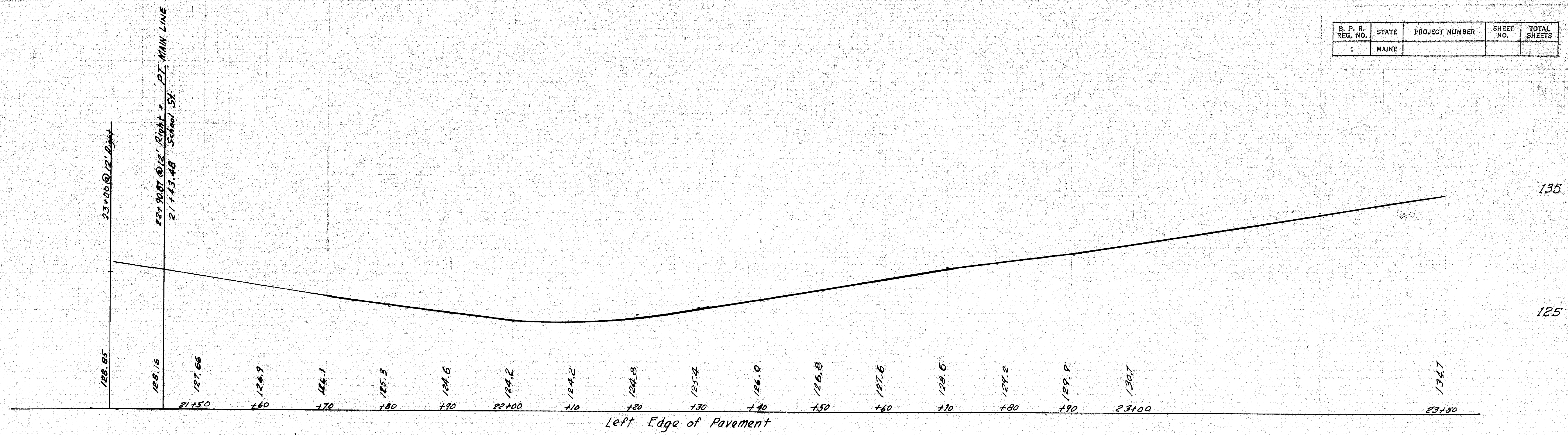
SHEET 18 OF 32 AUGUSTA, MAINE May 1964

C. B. CO., NO. 44-131 26728

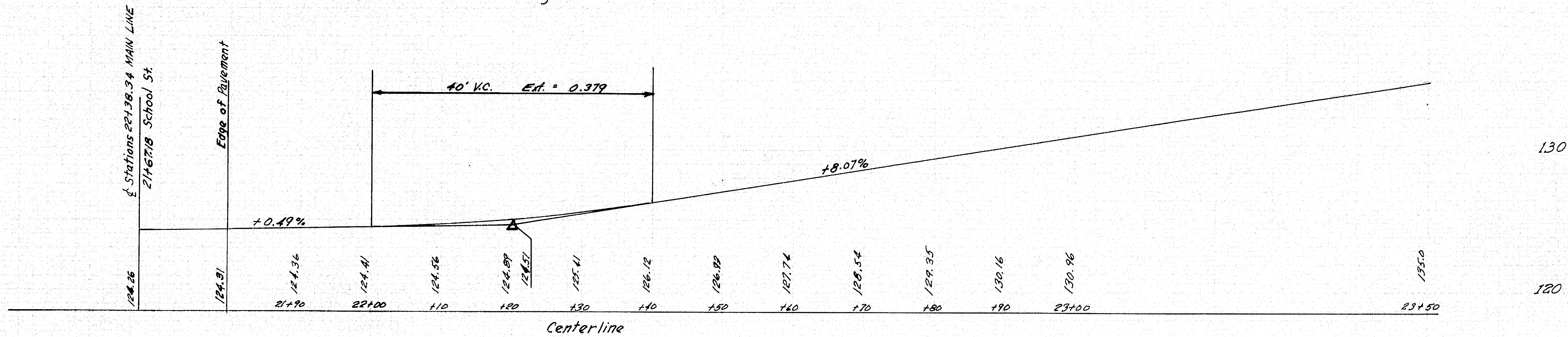
92-27



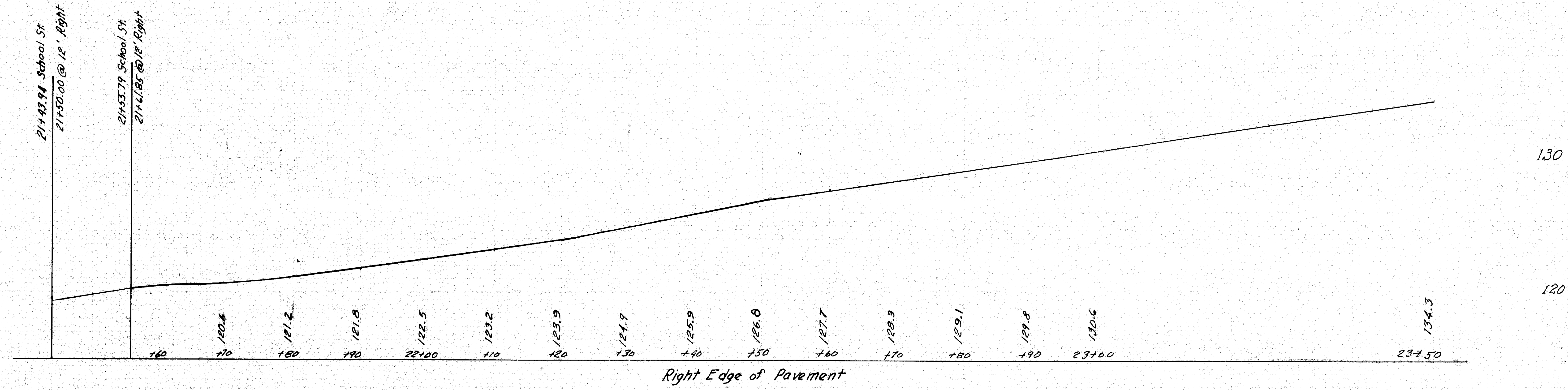
| B. P. R. REG. NO. | STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | | | |



Left Edge of Pavement



Centerline



Right Edge of Pavement

| | |
|---|---|
| DESIGN – Doten<br>TRACE + DETAIL – J. F. M.<br>CHECK – C.W.M. | BRIDGE NO. – 5161<br>SURVEY –<br>PLOT – |

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

# SANDY RIVER BRIDGE

OVER

## SANDY RIVER

IN THE TOWN OF

## STRONG
## FRANKLIN COUNTY

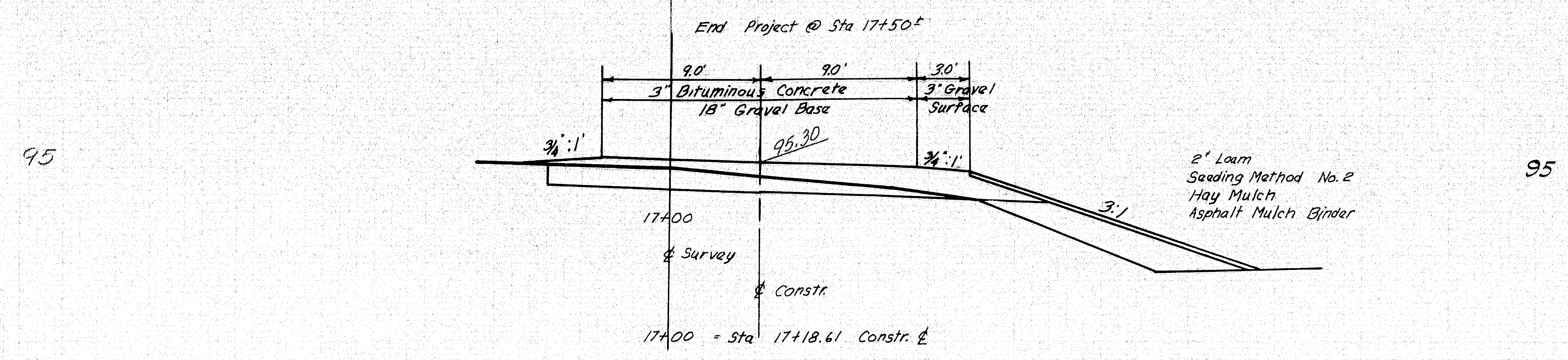
PROFILES – SCHOOL STREET

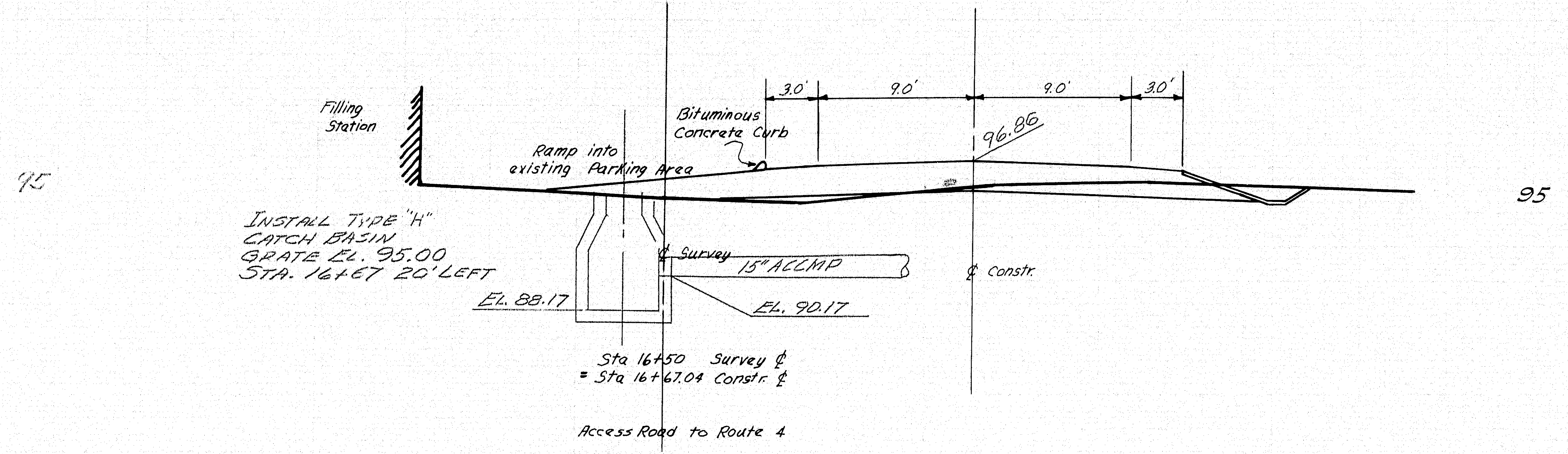
SHEET 19 OF 32 AUGUSTA, MAINE May 1964

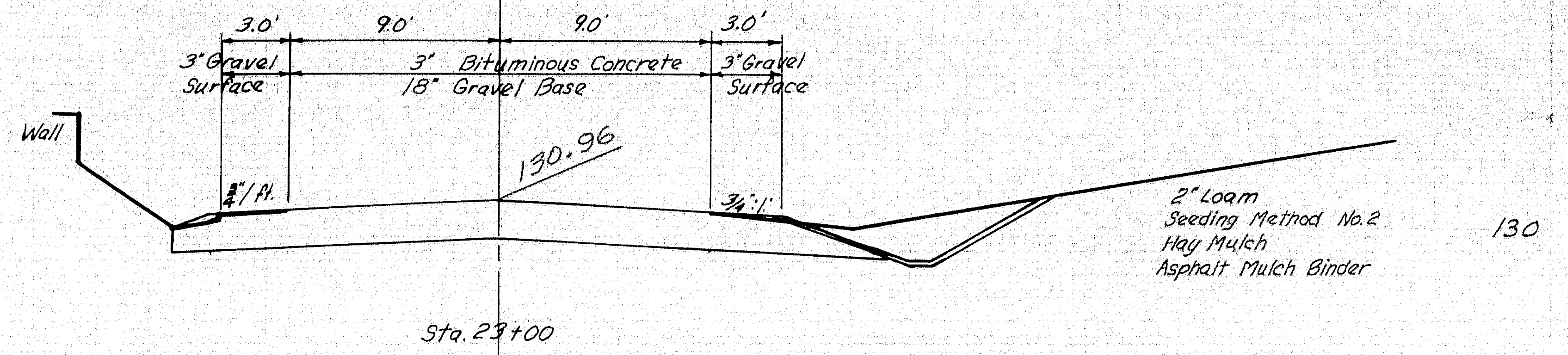
[illegible]

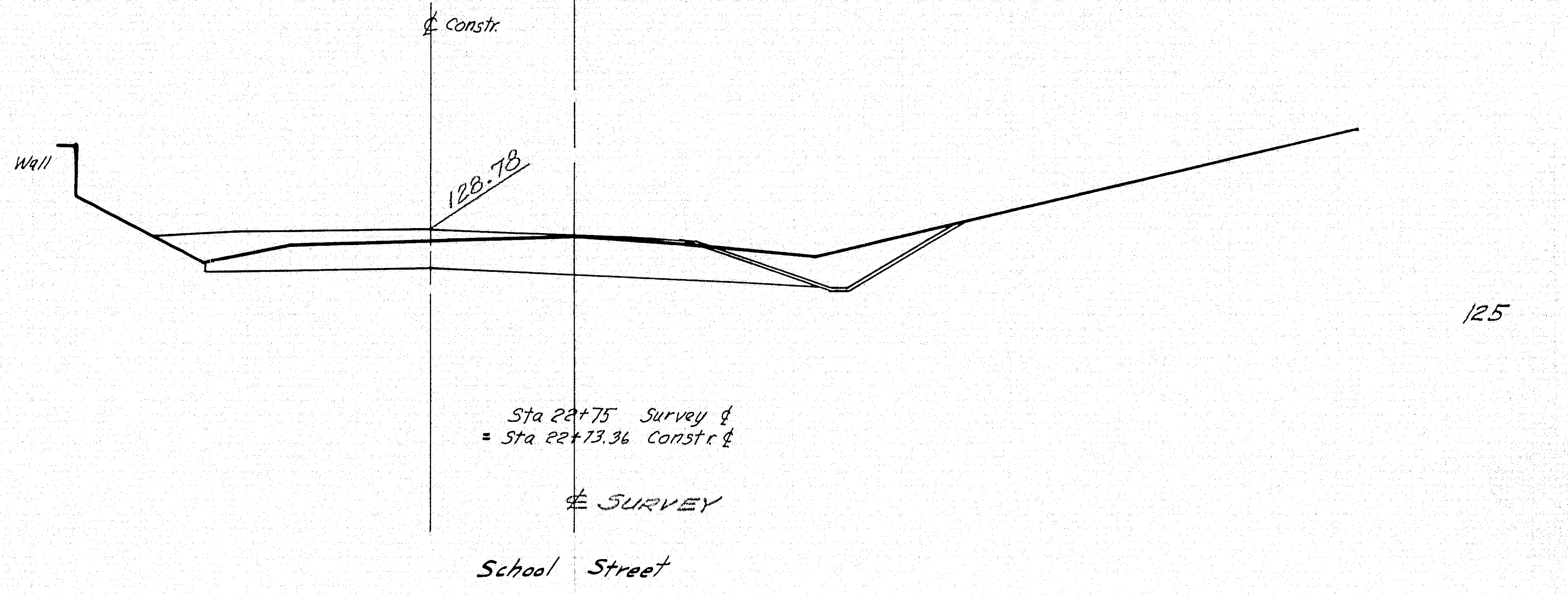
0 1 2 3 4 5 INCHES

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









DESIGN- Doten
TRACE- T.W.A.
CHECK-

BRIDGE NO.- 5161
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

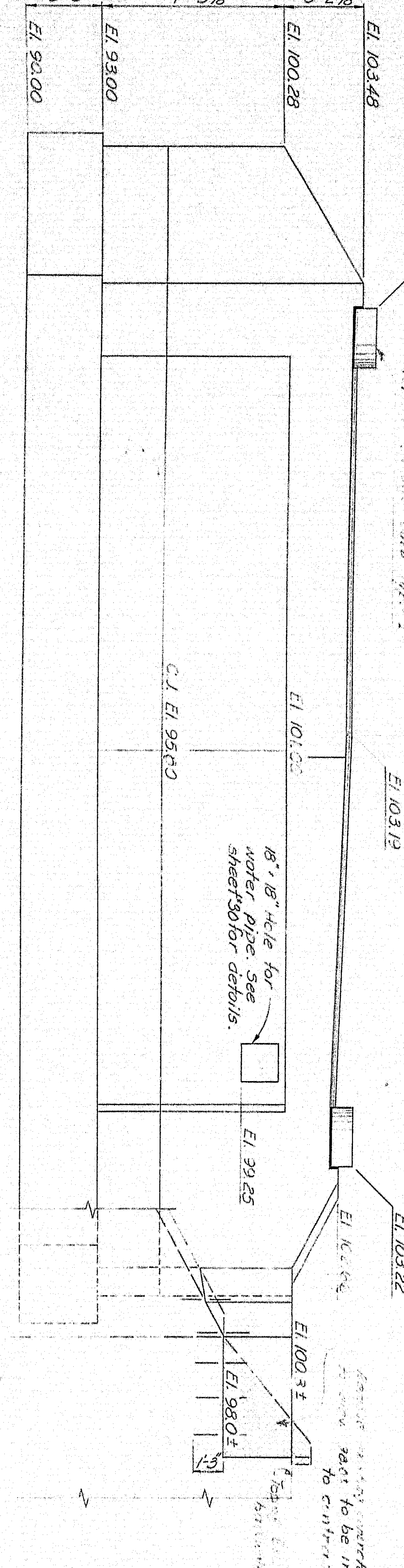
## SANDY RIVER BRIDGE
OVER
## SANDY RIVER
IN THE TOWN OF
## STRONG
## FRANKLIN COUNTY

CROSS SECTIONS - SCHOOL ST. & ACCESS RD.
SHEET 20 OF 32 AUGUSTA, MAINE May 1964

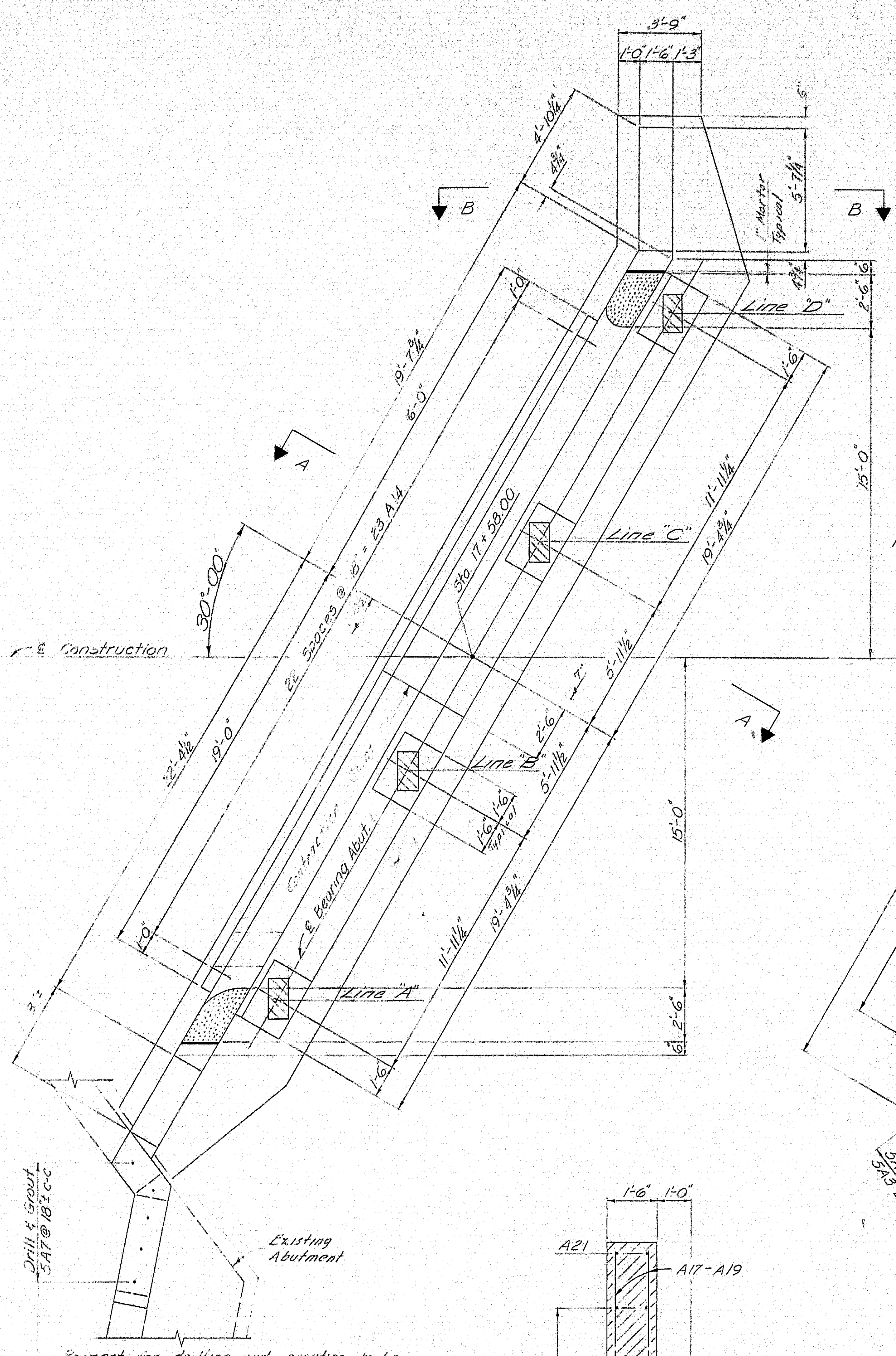
[redacted]

0 1 2 3 4 5 INCHES

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

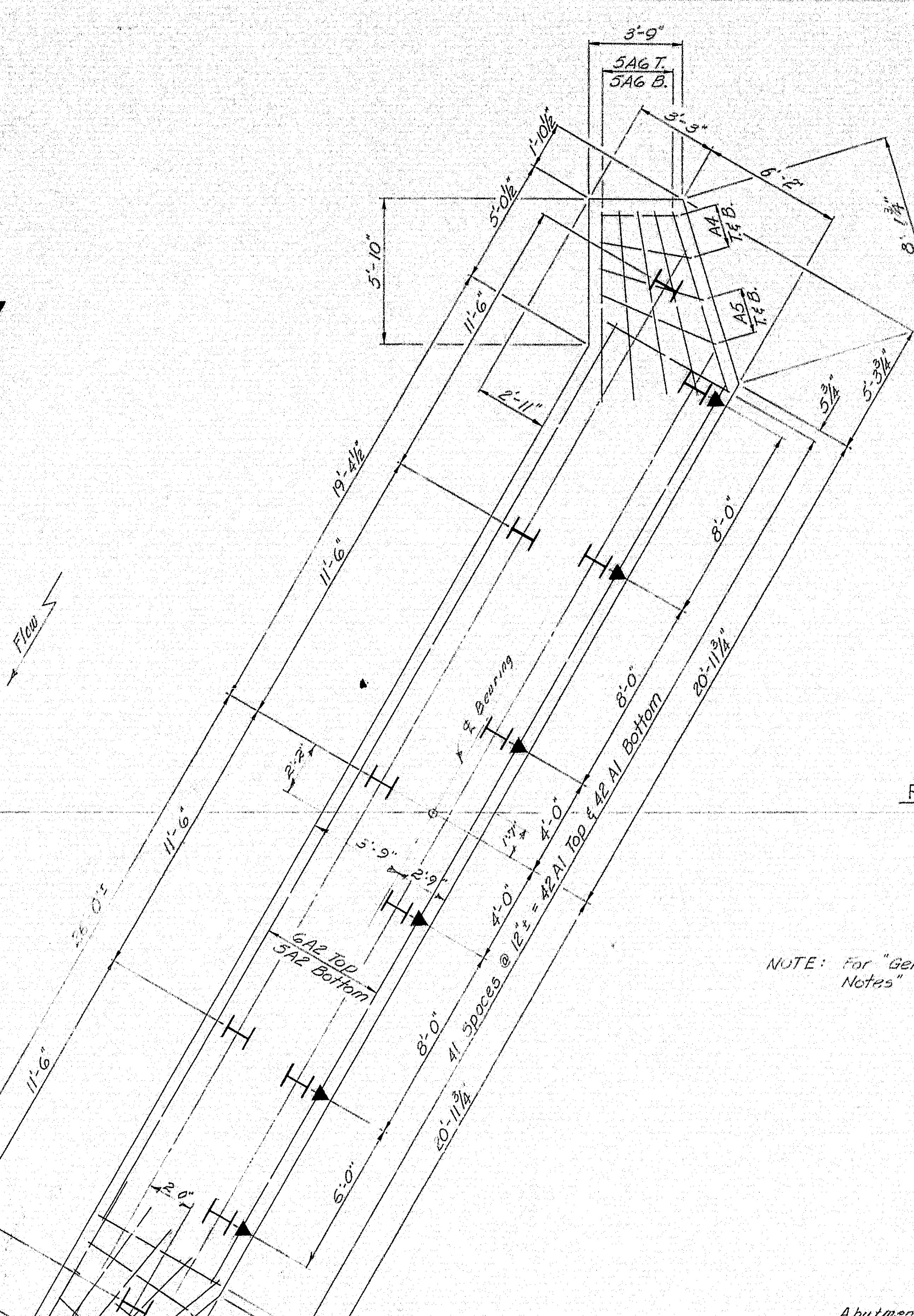


REAR ELEVATION

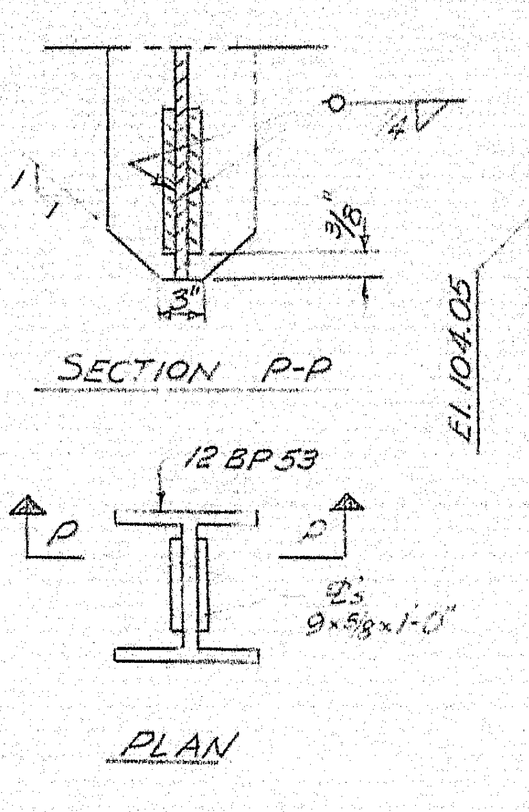


Payment for drilling and grouting to be incidental to Item 705-14, Reinforcing Steel, Placing.

PLAN

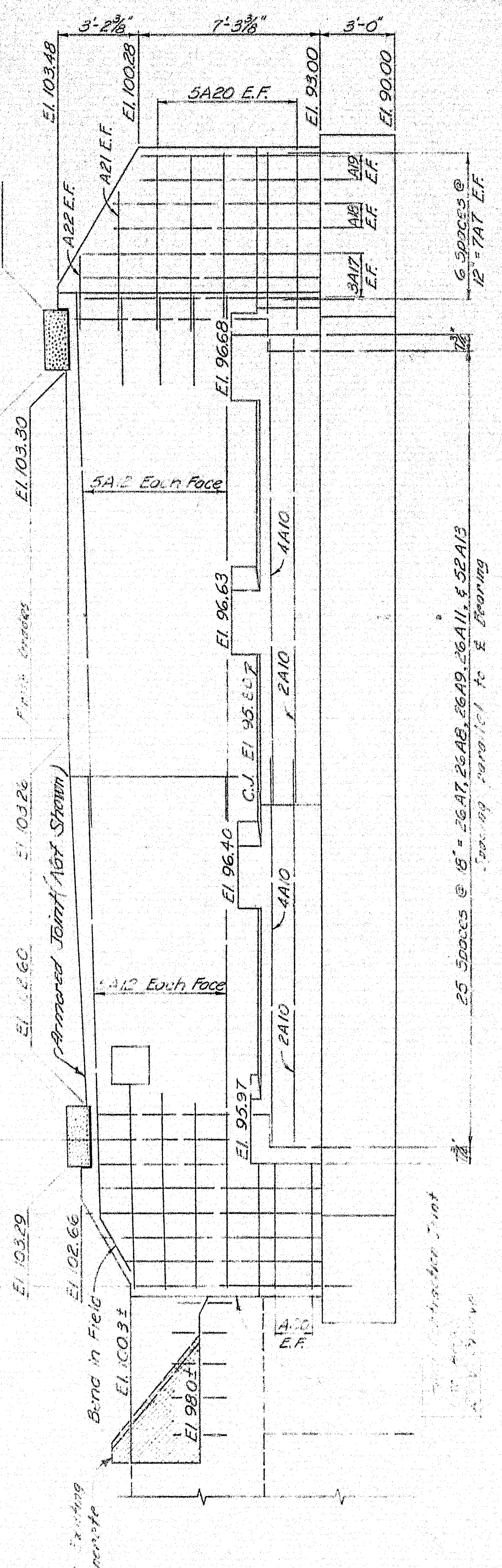


FOOTING & PILE PLAN



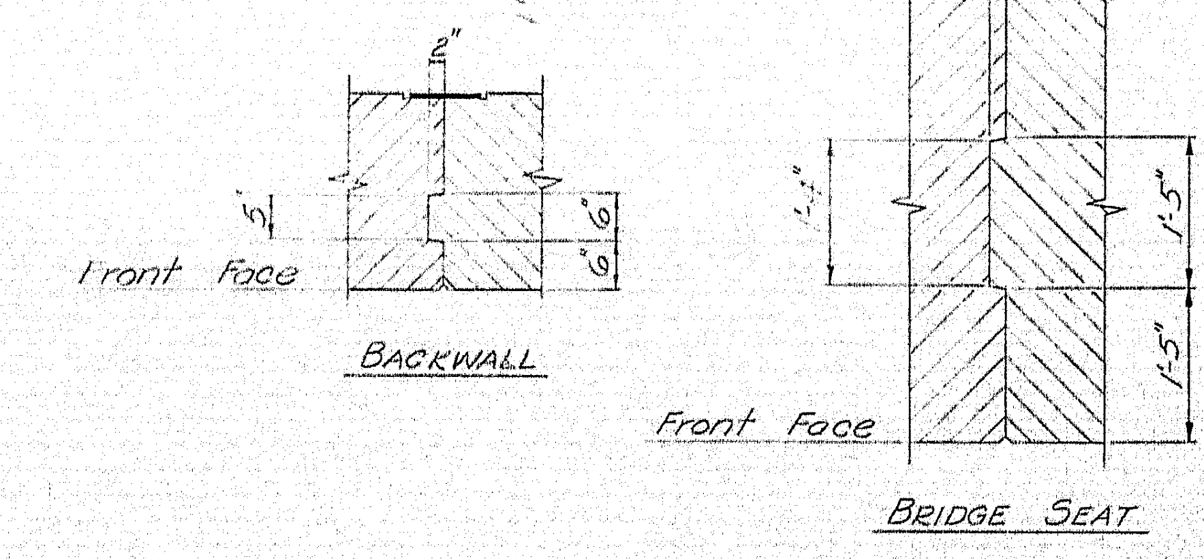
PILE POINT DETAIL

NOTE: For "General Abutment Notes" see sheet #22

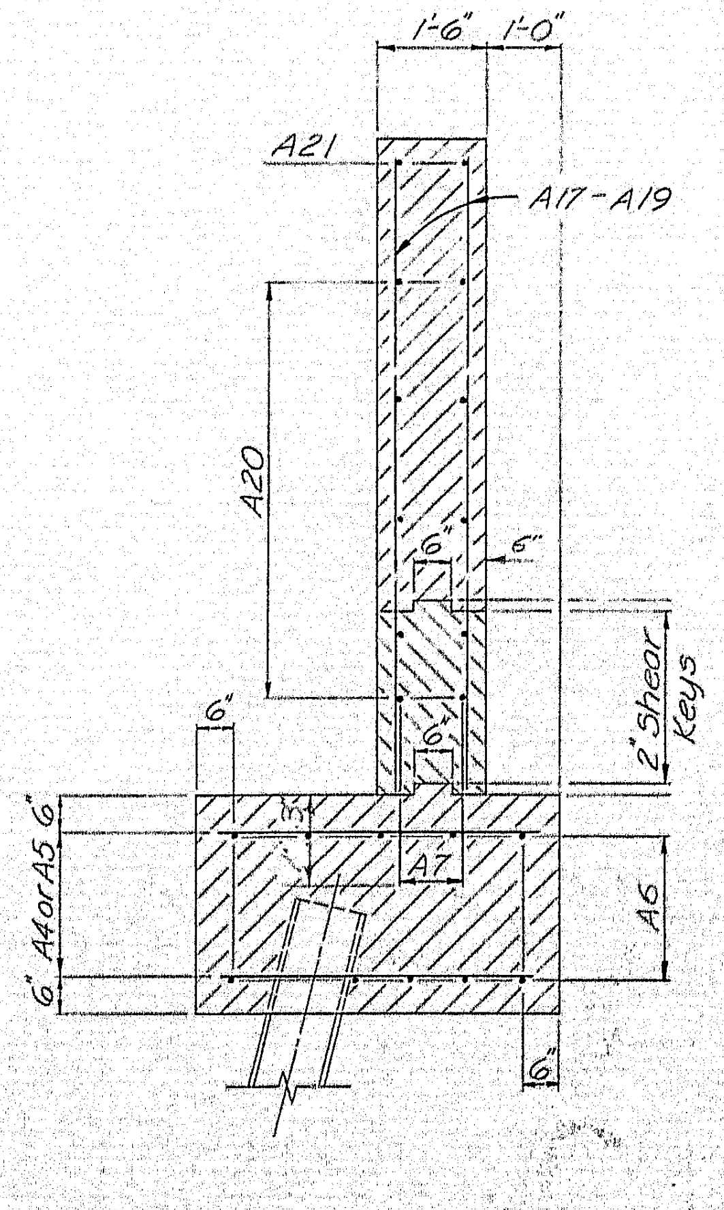


FRONT ELEVATION

Bridge Seat Elevations Revised – May 1965, HRD



CONTRACTION JOINT SHEAR KEYS



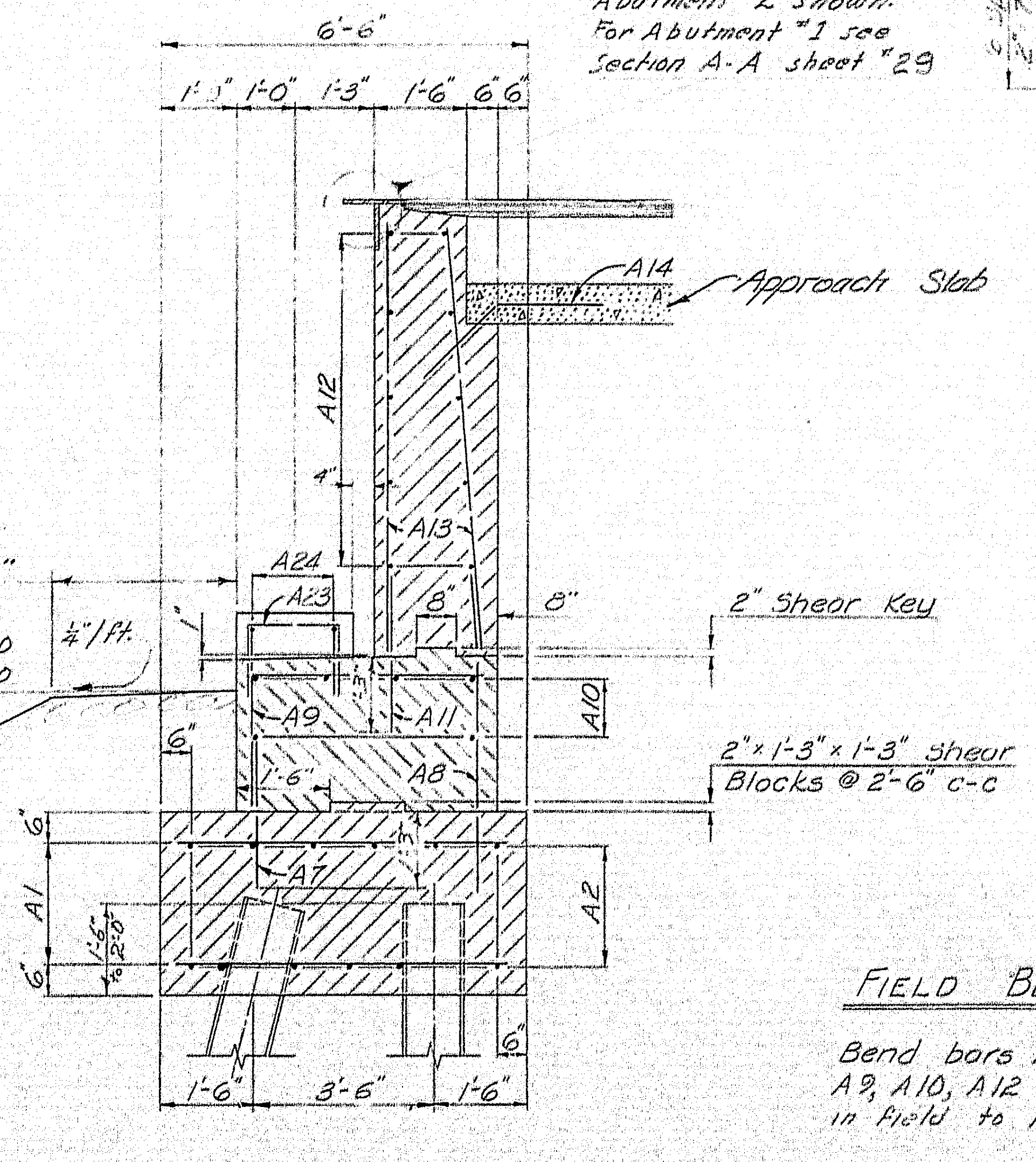
SECTION B-B

FOOTING & PILE PLAN

PILE NOTES

1. Abutment piles to be 12 BP 53 steel piles driven to ledge or practical refusal. Allowable load 46.75 tons per pile. Batter front row 3"/ft. as indicated by arrows.
2. 11 Piles required per abutment. Estimated lengths:
   Abutment #1 = 40'-0"
   Abutment #2 = 55'-0"

Abutment #2 shown. For Abutment #1 see Section A-A sheet #29



SECTION A-A

FIELD BENDS

Bend bars A20, A21, A9, A10, A12 and A22 in field to fit.

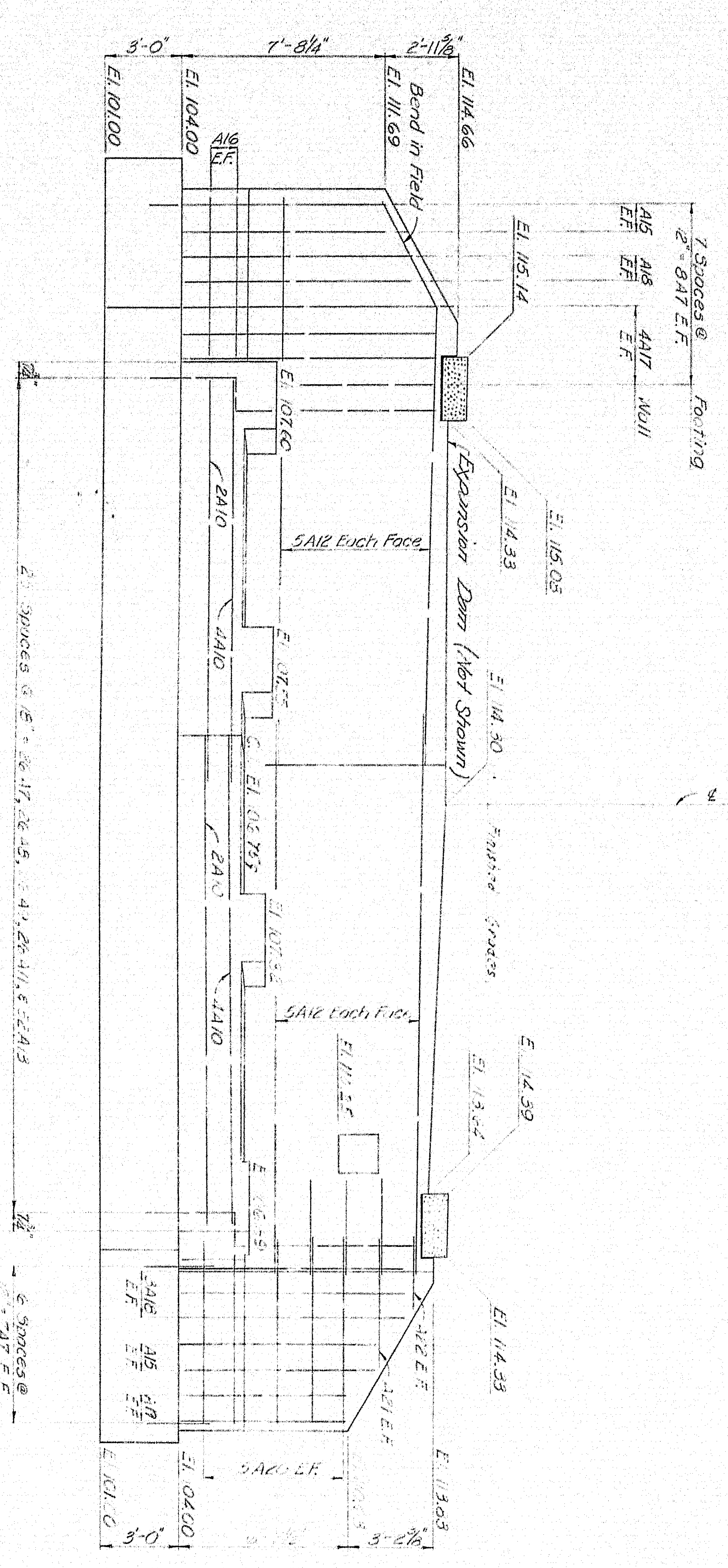
DESIGN– Doten
TRACE+DETAIL – E.E.L.
CHECK– T.H.K.

BRIDGE NO. 5161
SURVEY–
PLOT–

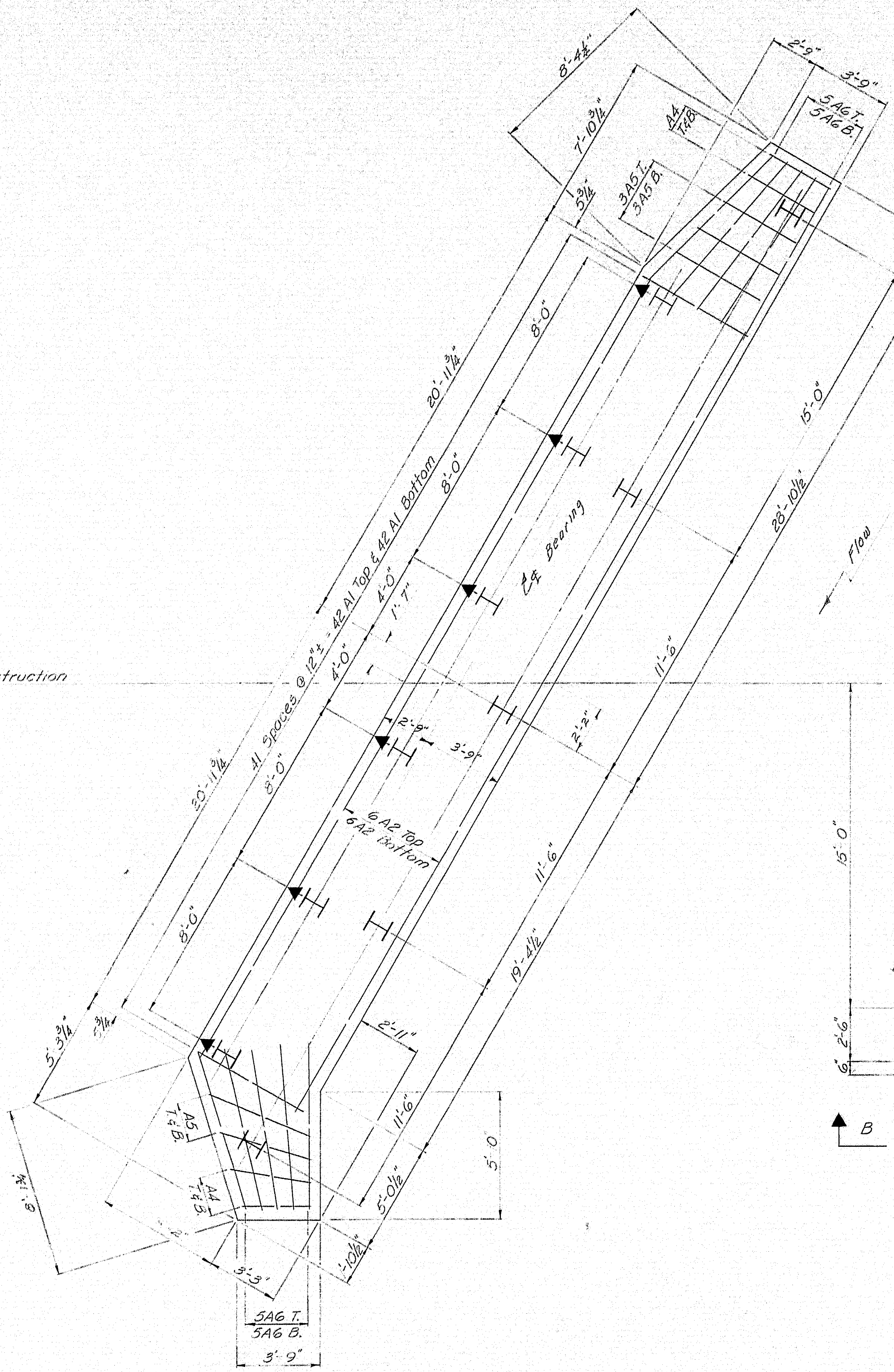
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
SANDY RIVER BRIDGE
OVER
SANDY RIVER
IN THE TOWN OF
STRONG
FRANKLIN COUNTY
ABUTMENT I
SHEET 21 OF 32 AUGUSTA, MAINE May 1964

92-30

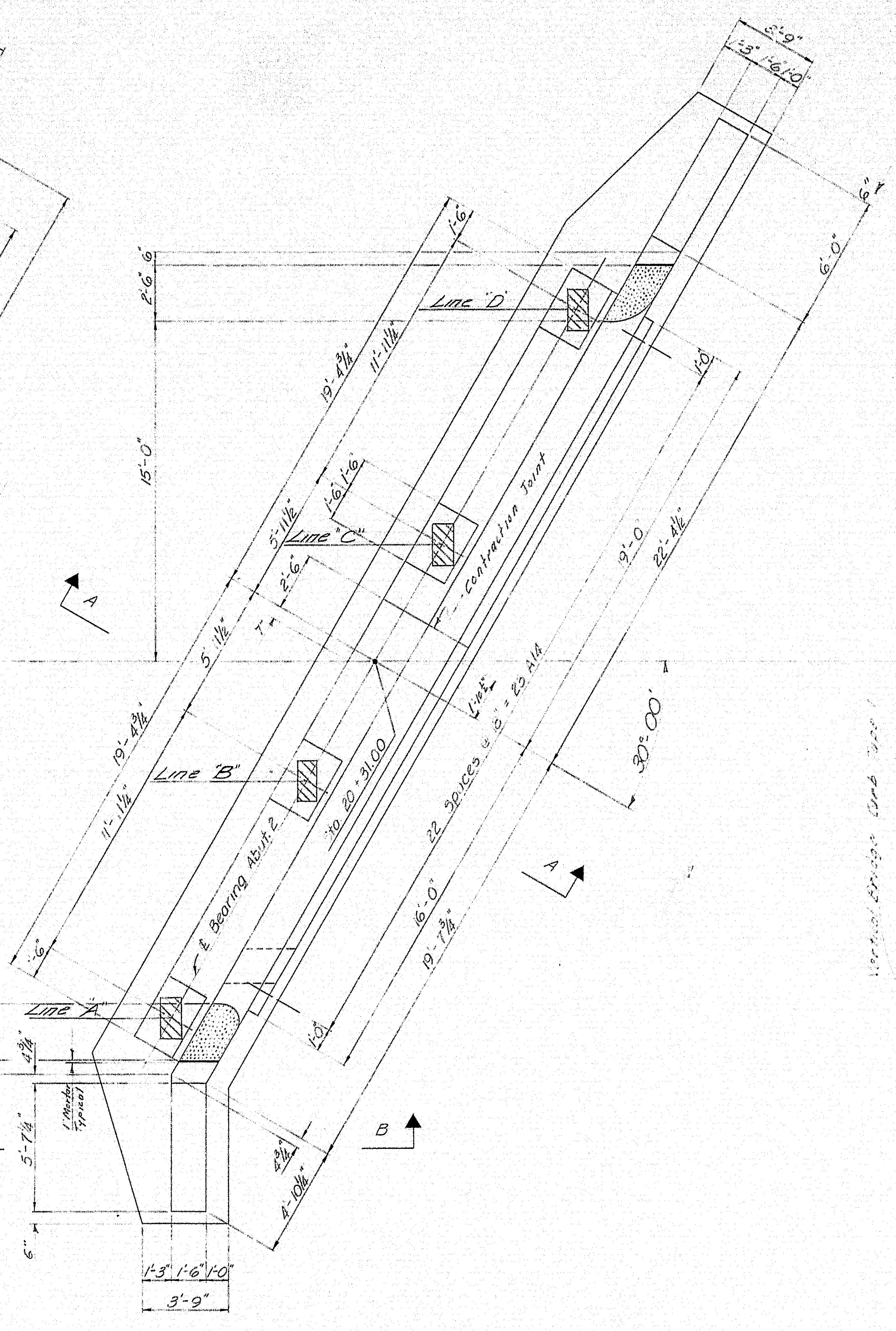
| B. P. R. REG. NO. | STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | | | |



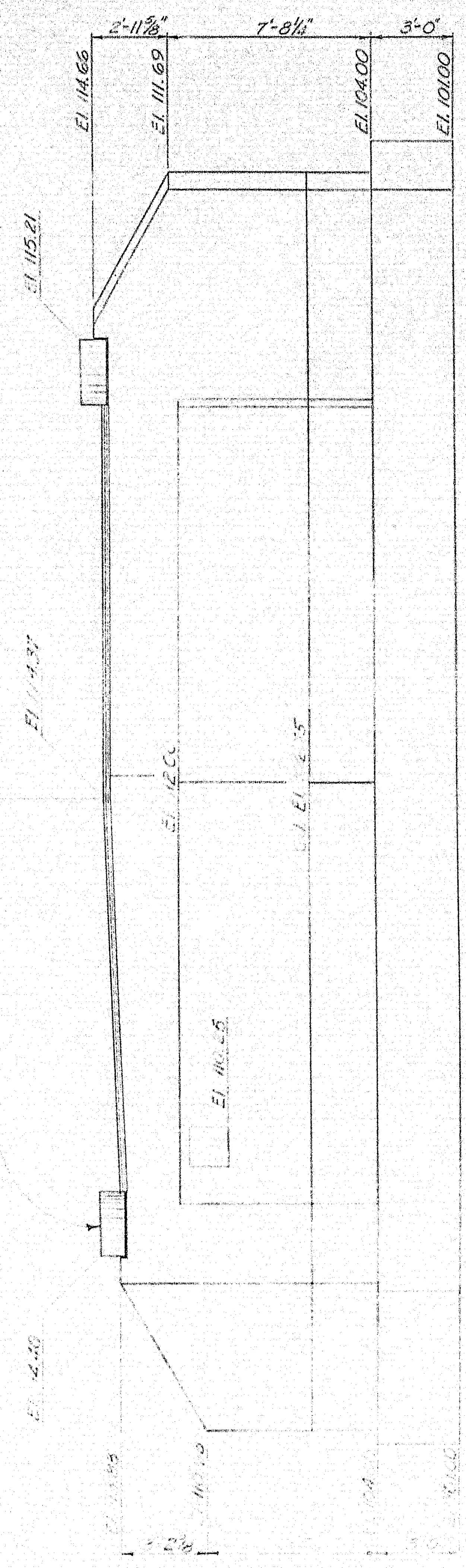
FRONT ELEVATION



FOOTING & PILE PLAN



PLAN



REAR ELEVATION

## NOTES

1. For "Sections A-A & B-B" see sheet #21.
2. For "Pile Notes" and details of "Contraction Joints" see sheet # 21

## GENERAL ABUTMENT NOTES

1. Cover the back side of contraction joints with two layers of heavy roofing 10" wide bonded to concrete and to each other with a suitable grade of roofing cement. Recess area to be covered ¼" Coat surface of joint with asphalt paint to break bond.
2. Paint bridge seat, face of backwall, and 1'-0" below top of riprap on face of breastwall with Gray Epoxy Resin Surface Sealant.
3. For vertical bridge curb details see sheet #30
4. For "Approach Slab" see sheet #31
5. Reinforcing cover 3" unless noted.
6. For placing of borrow and riprap at abutments see sheets #4 & #8
7. Dress bridge seat bearing areas 1" larger all around than size of masonry plates to exact elev. shown.

Bridge Seat Elevations Revised – May 1965, HRD

| DESIGN– Doten<br>TRACE+ DETAIL– E.E.L.<br>CHECK– T.H.K. | BRIDGE NO. 5161<br>SURVEY–<br>PLOT– |
|---|---|

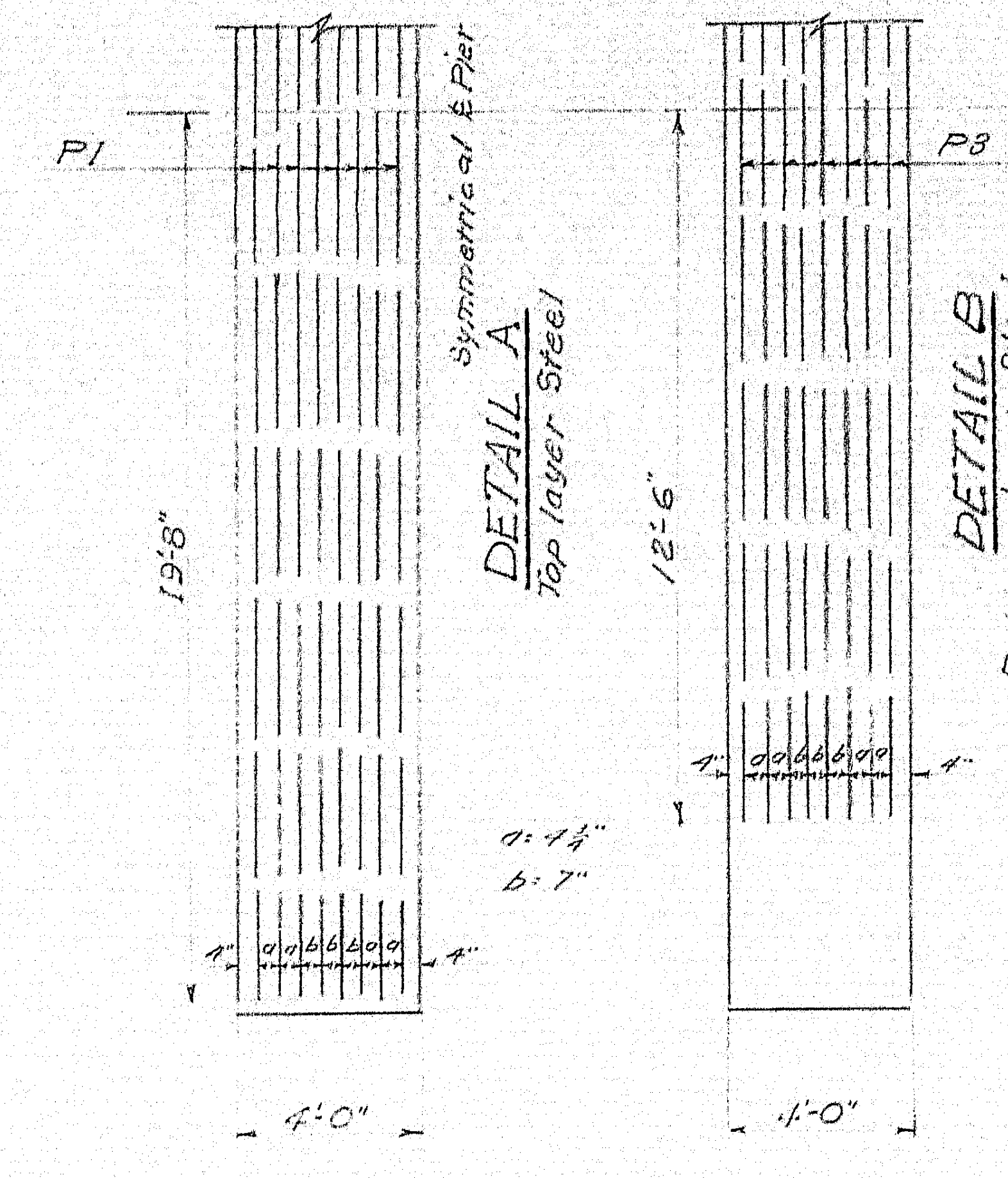
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
SANDY RIVER BRIDGE
OVER
SANDY RIVER
IN THE TOWN OF
STRONG
FRANKLIN COUNTY
ABUTMENT 2
SHEET 22 OF 32 AUGUSTA, MAINE May 1964

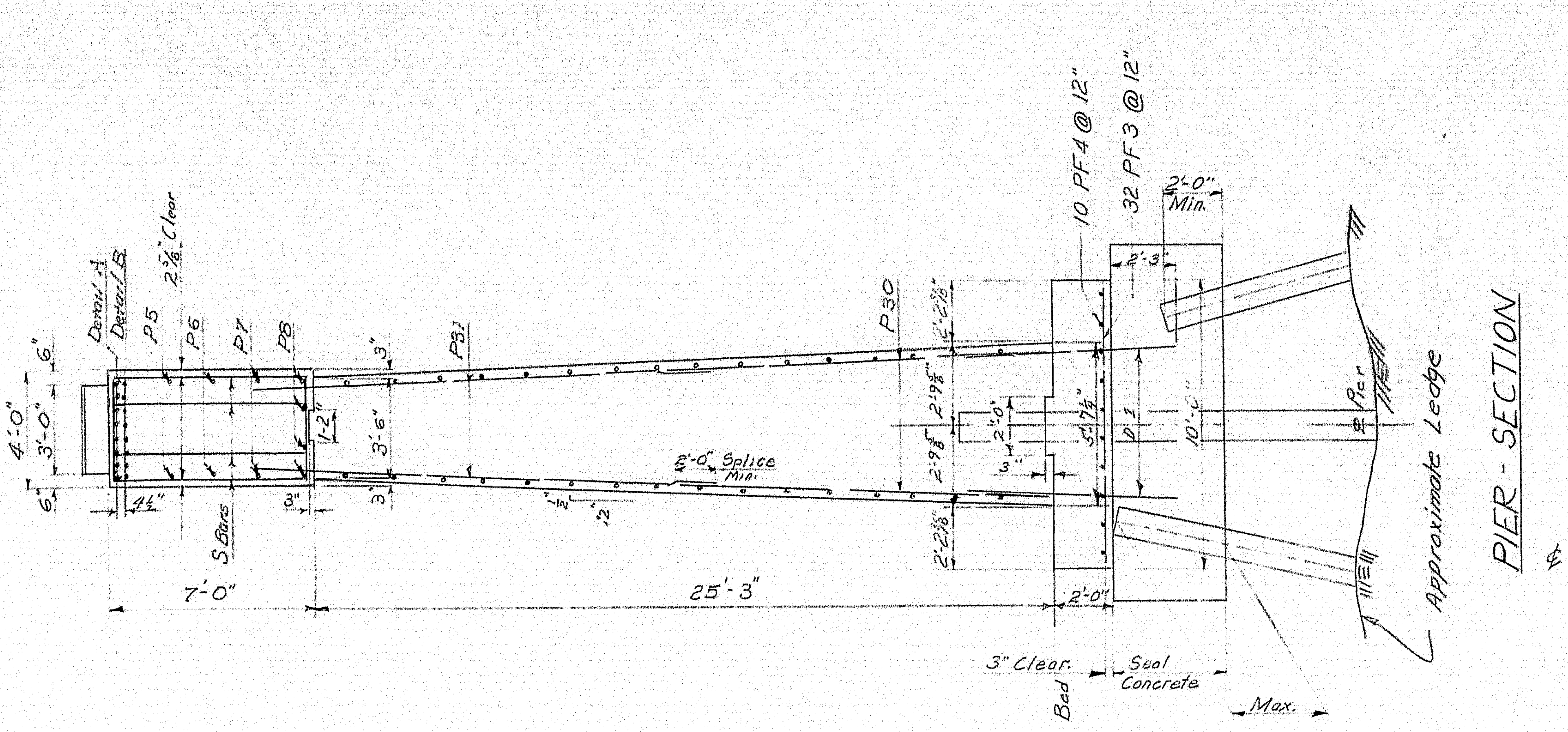
92-31

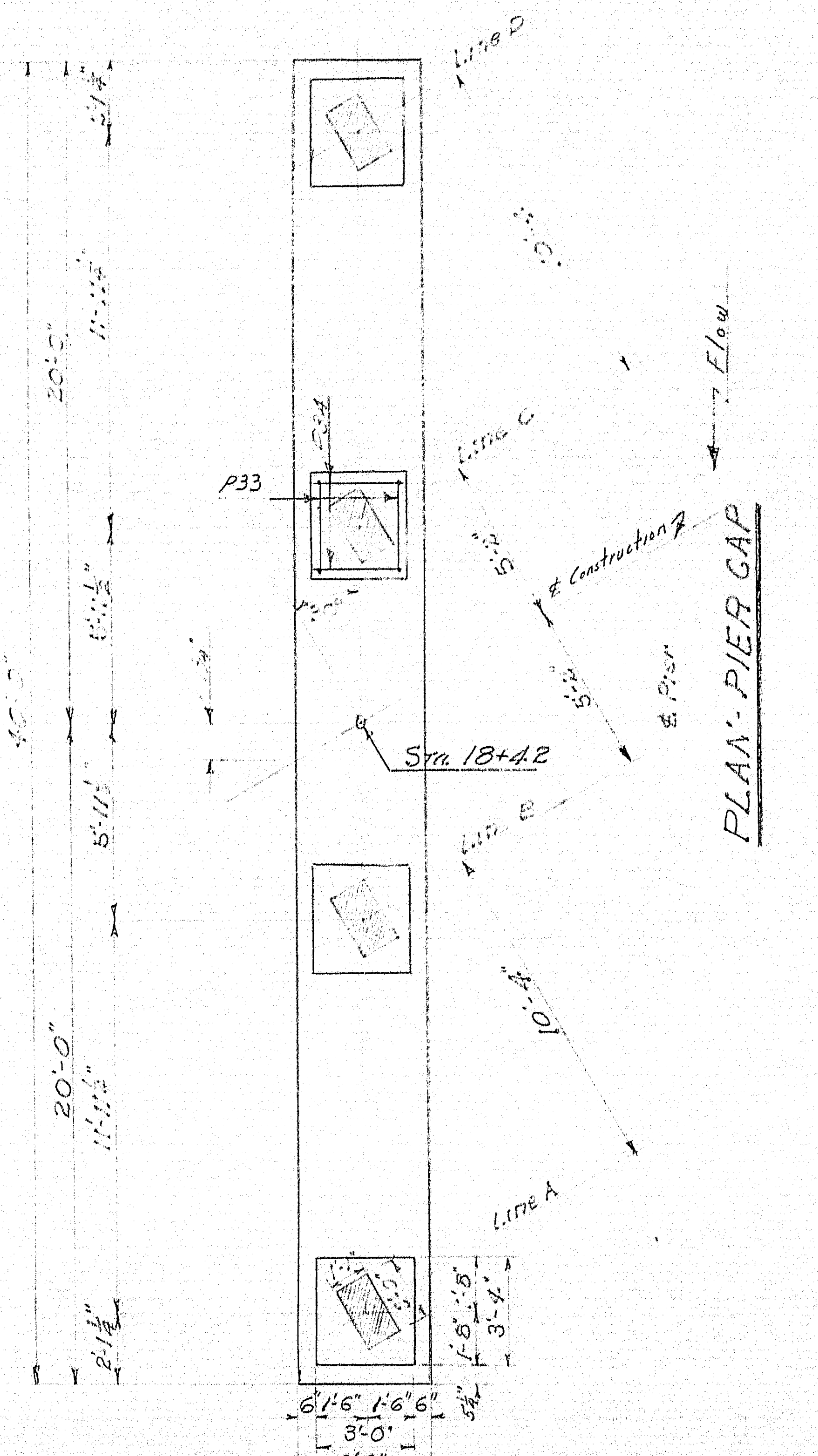
C. D. CO., NO. 44-131 24722

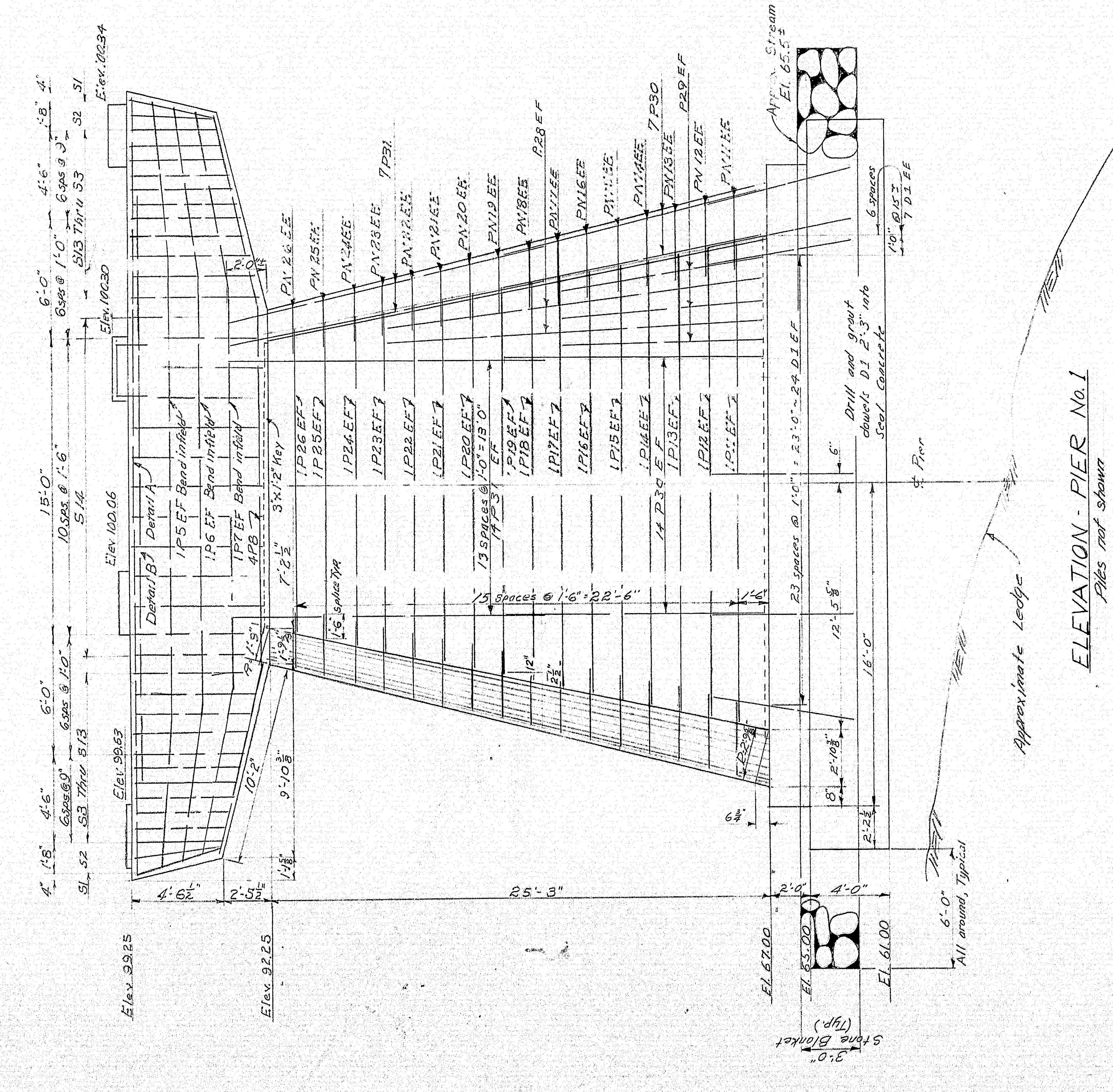
0 1 2 3 4 5 INCHES

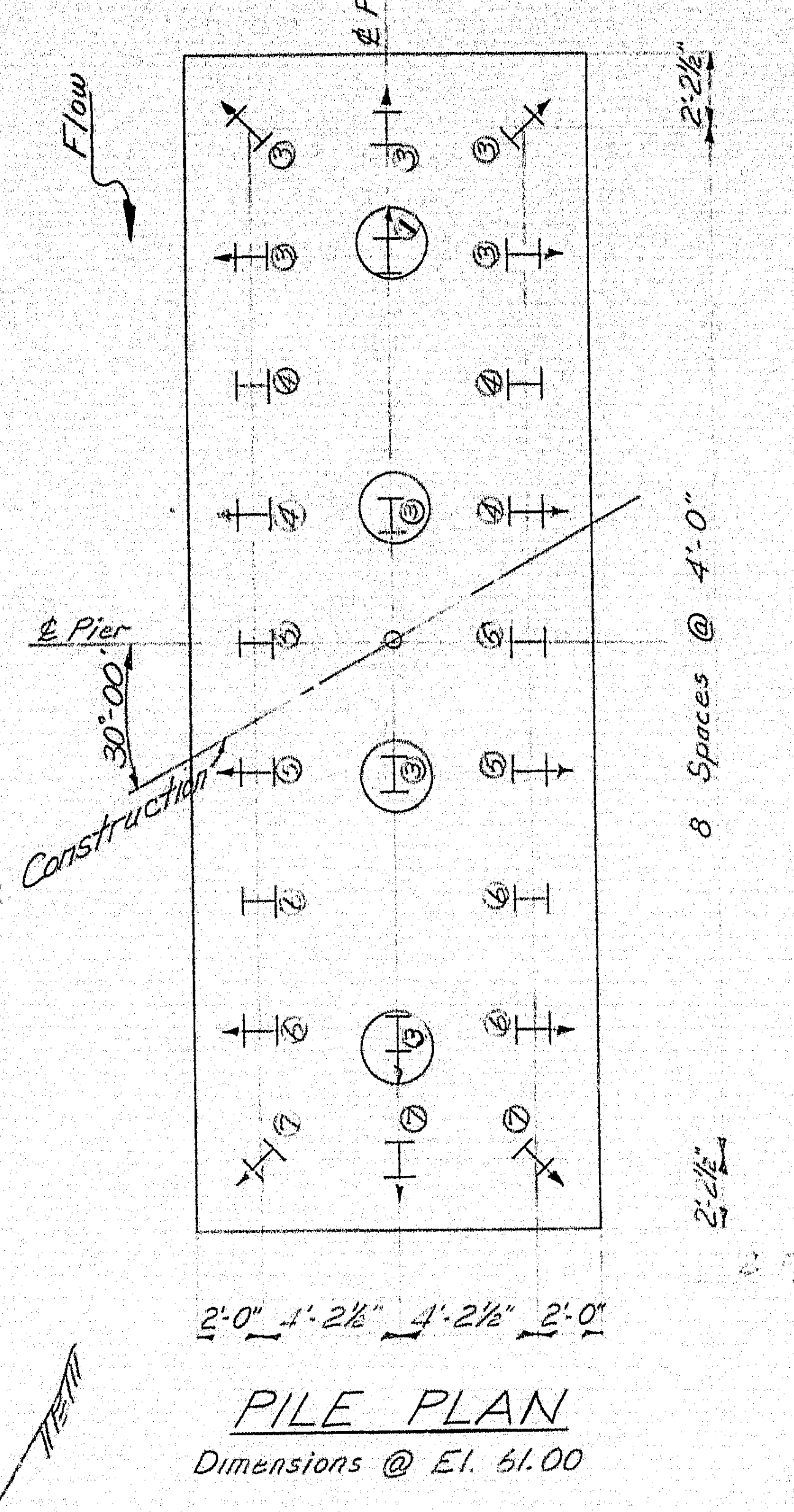
| B.P.R. REG. NO. | STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | | | |











## PILE PLAN

Dimensions @ El. 61.00

## PILE NOTES

Steel H Piles 12 BP 53 driven to ledge. Allowable load = 46 ¾ Tons/Pile.

Piles marked H→ to be battered 2½"/ft in the direction of the arrow.

Piles marked (H) to extend through the concrete seal & distribution slab into the pier shaft. Other piles to be cut off at the top of the concrete seal or to extend a minimum of 2'-0" into the seal.

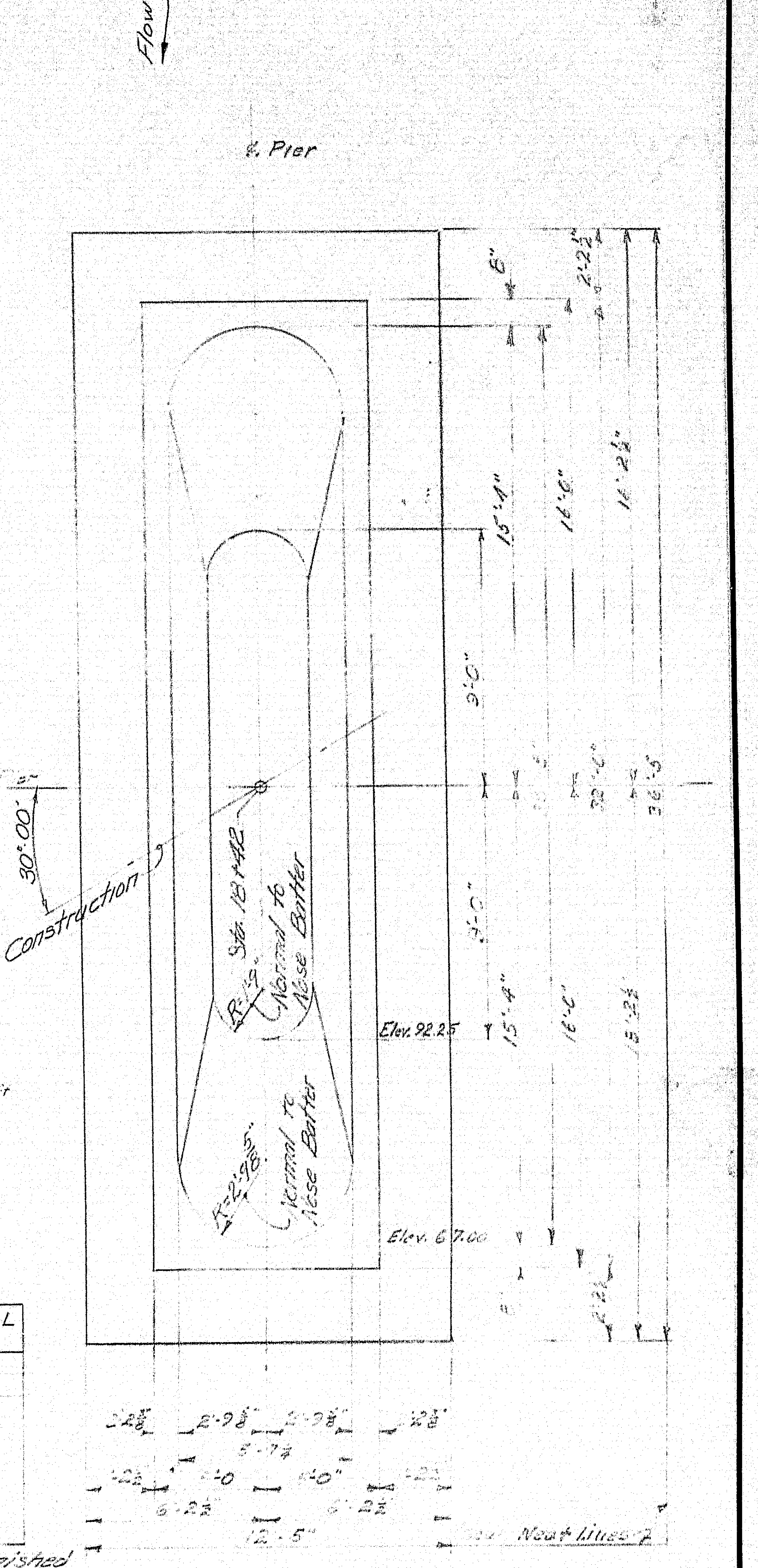
## PILE SCHEDULE

| MARK | LENGTH | NUMBER | | TOTAL |
|---|---|---|---|---|
| | | Pier 1 | Pier 2 | |
| 1 | 20'-0" | 1 | 4 | 5 |
| 2 | 18'-0" | — | 1 | 1 |
| 3 | 15'-0" | 7 | 2 | 9 |
| 4 | 12'-0" | 5 | 2 | 7 |
| 5 | 9'-0" | 4 | 2 | 6 |
| 6 | 7'-0" | 4 | — | 4 |
| 7 | 5'-0" | 3 | — | 3 |

Note: Piles listed for piers to be furnished by the State Highway Commission

## GENERAL PIER NOTES

1. Maximum Footing Pressure = 6 Tons/ft² (when footing is on ledge)
2. Reinforcing Steel 3" Clear unless otherwise shown
3. Chamfer all exposed edges of Concrete ¾" unless otherwise noted.
4. Seal Concrete dimensions are given predicated on use of M-116, DP2, 127 or equivalent steel sheet piling with appropriate rolled corners.
5. Pay dimensions for seal concrete shall be neat dimensions shown plus ten (10) inches.
6. Payment for drilling and grouting dowels into concrete seal shall be incidental to Item 705-14 Reinforcing Steel Placing.
7. Seal Concrete is intended to be placed under Water and to be paid for under Item 701-36.
8. The depth of the Concrete Seal to be placed under Water is calculated assuming a water elevation of 70.0
9. E.F. = Each Face ~ E.E. = Each End
10. Dress bridge seat bearing areas 1" larger all around than size of bearing plates to exact elevations shown.
11. Place reinforcing steel in bridge seat areas to clear anchor bolts.



## PLAN VIEW

Cap Not Shown

DESIGN— Doten
TRACE + DETAIL — G.E.A.
CHECK— T.H.K.

BRIDGE NO. 5161
SURVEY—
PLOT—

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

# SANDY RIVER BRIDGE

OVER

# SANDY RIVER

IN THE TOWN OF

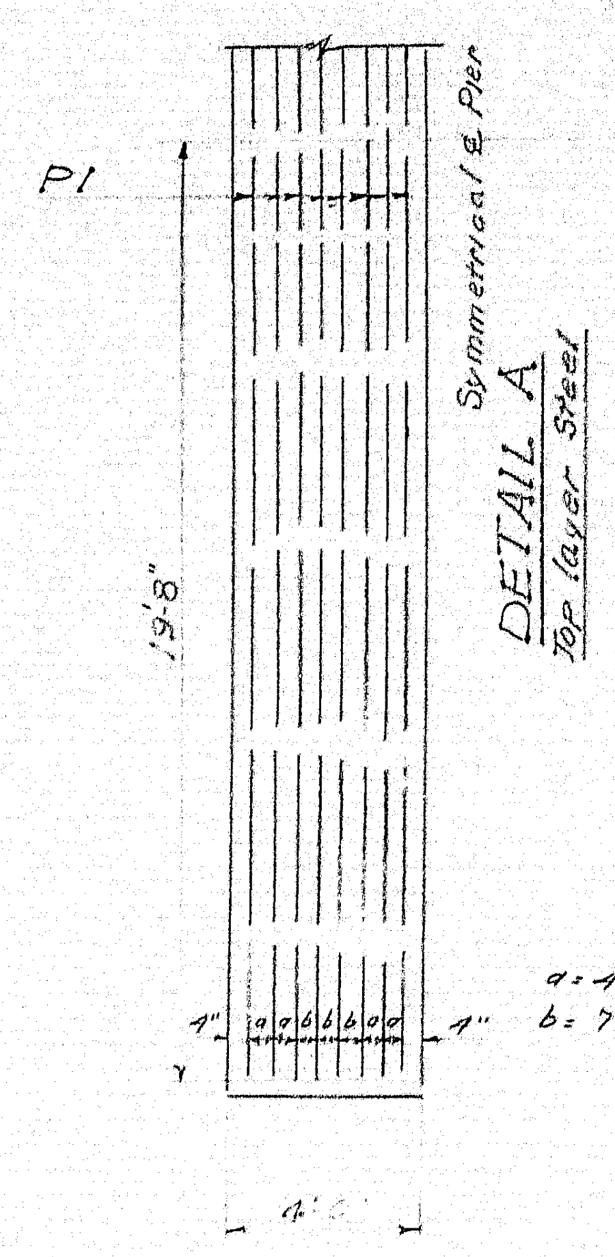
# STRONG
# FRANKLIN COUNTY

PIER 1

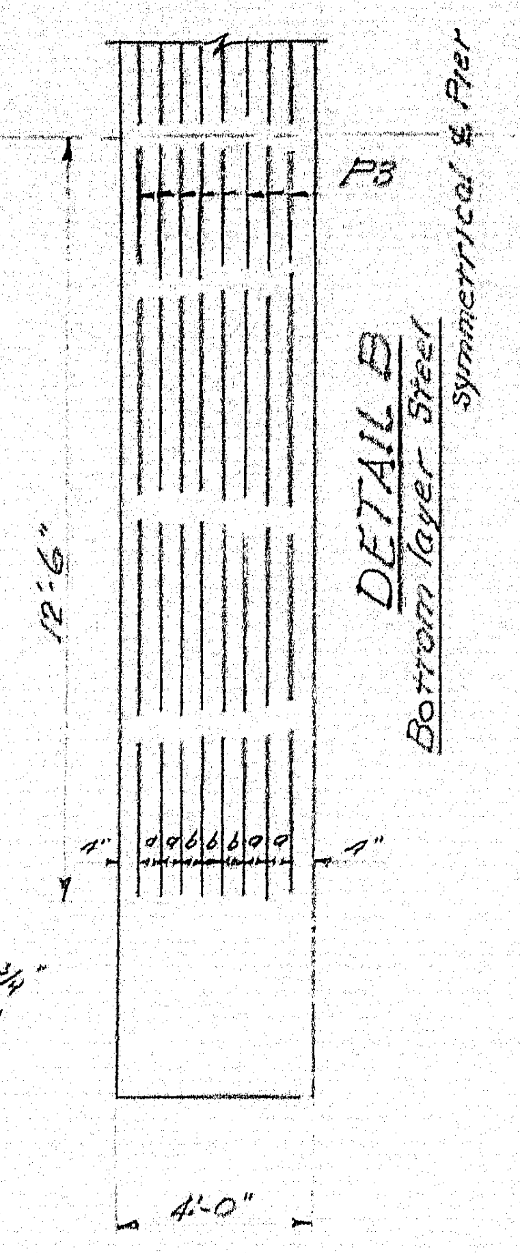
SHEET 23 OF 32 AUGUSTA, MAINE May 1964

92-32

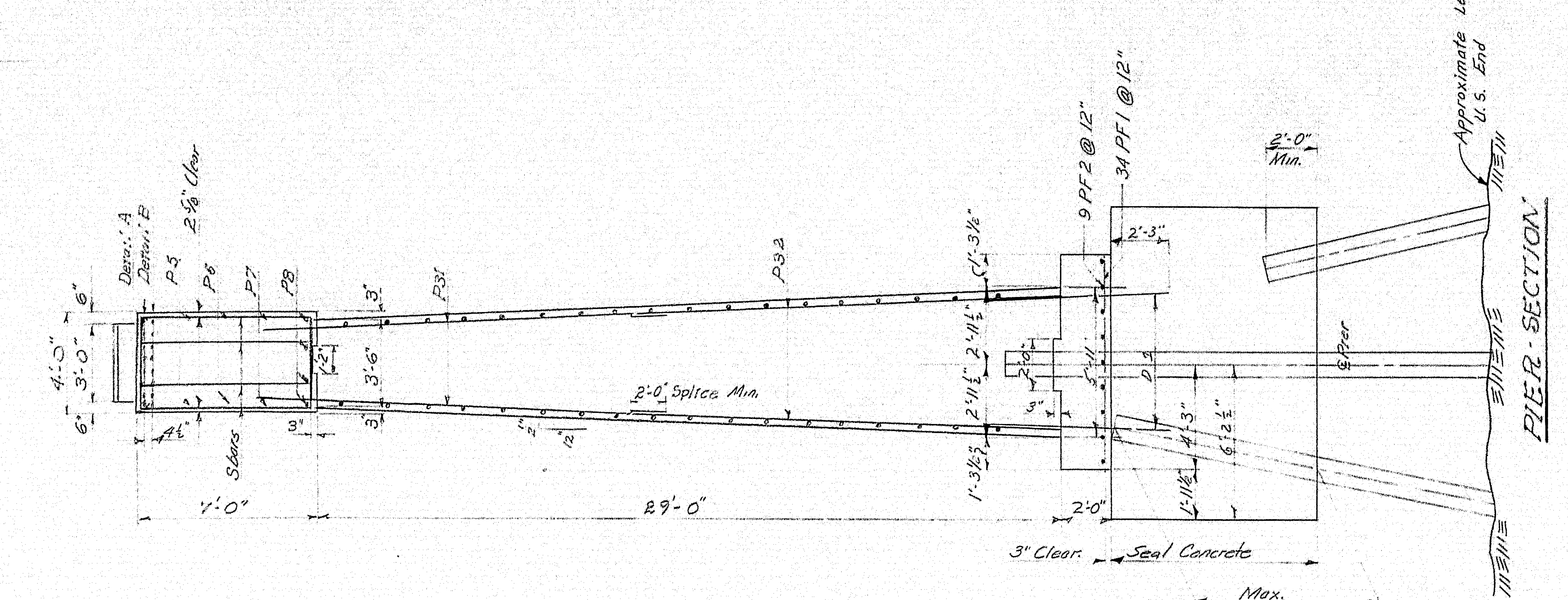
| B. P. R. REG. NO. | STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | | | |



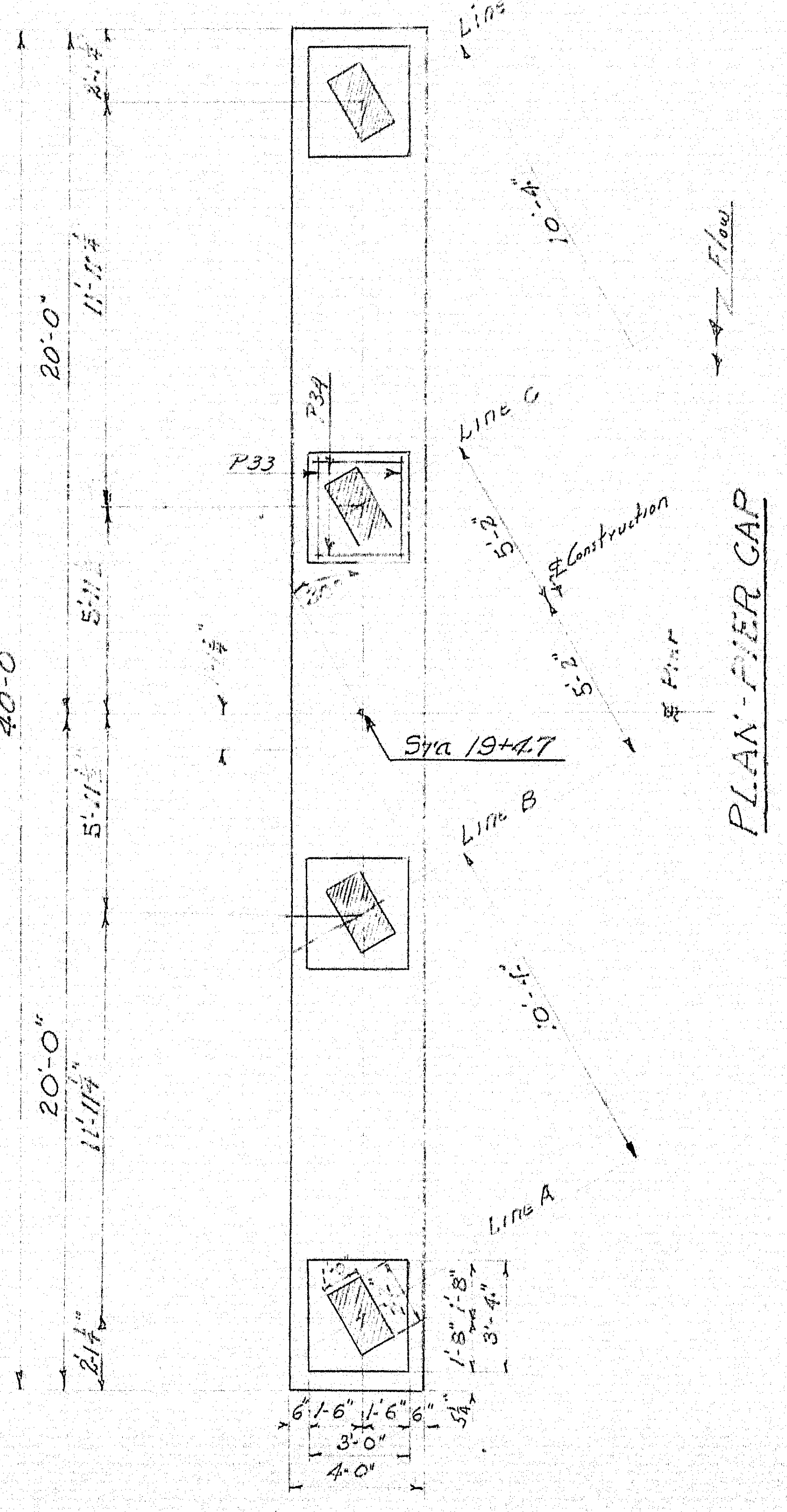
DETAIL A
Top Layer Steel



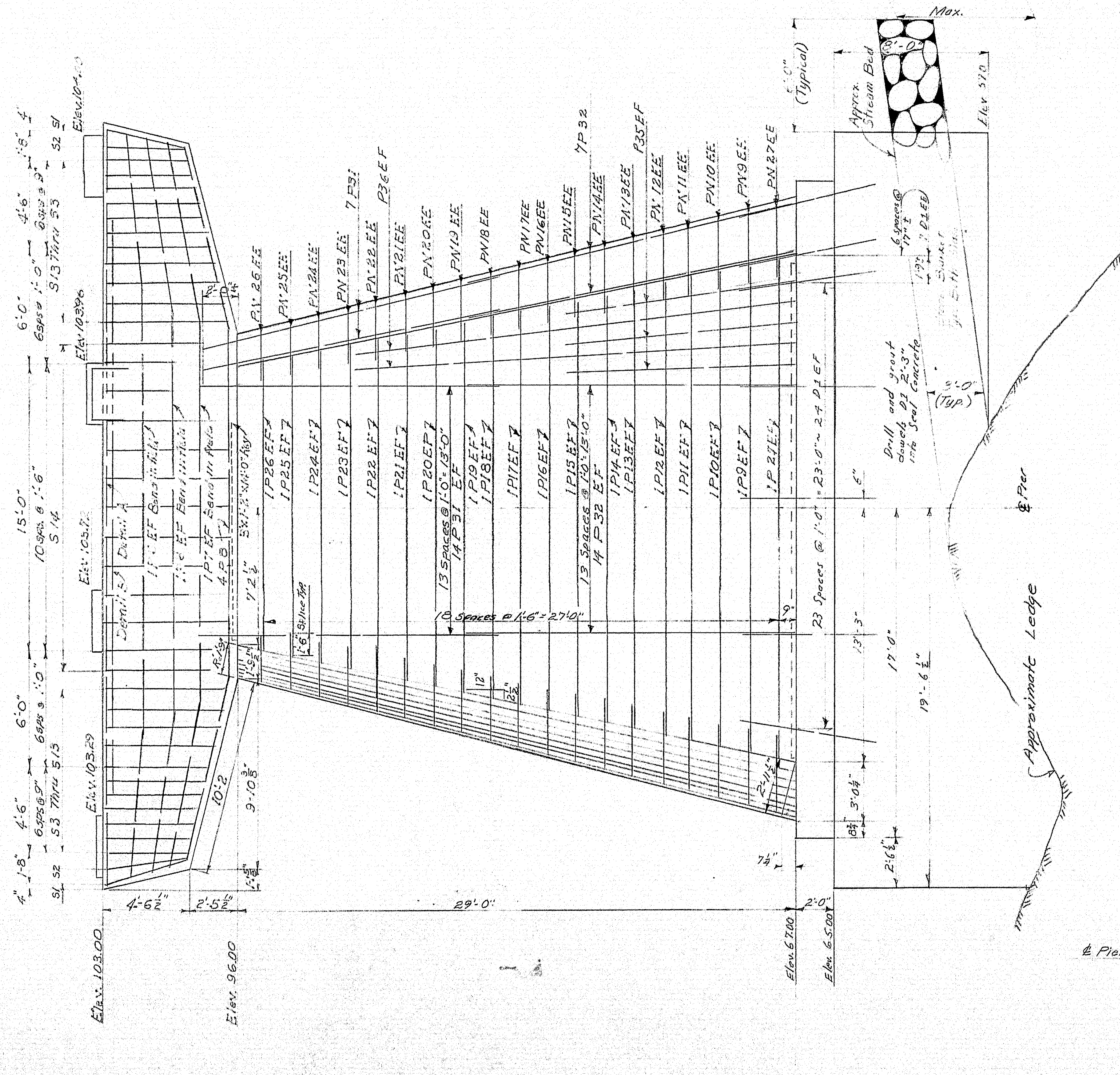
DETAIL B
Bottom Layer Steel



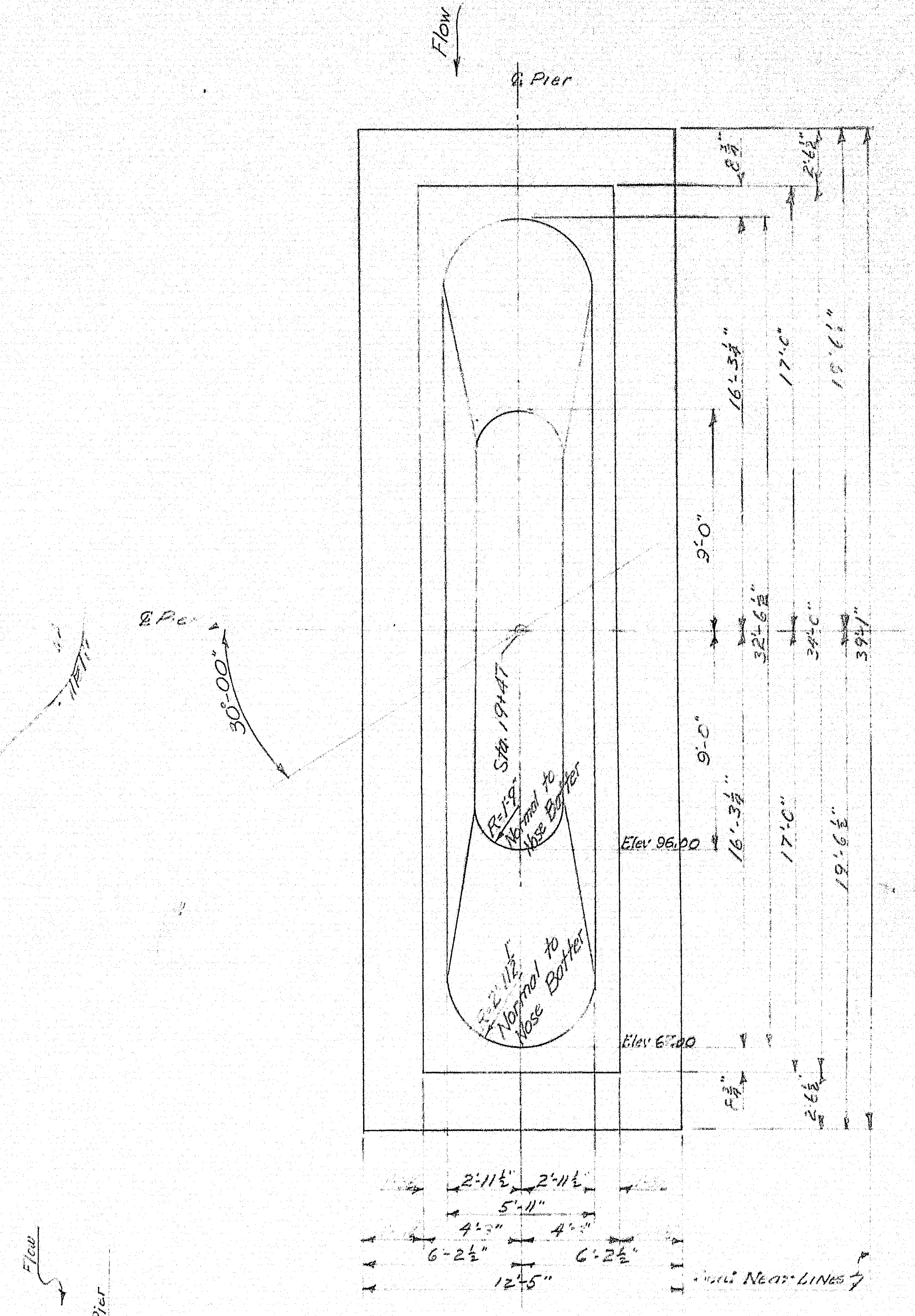
PIER SECTION



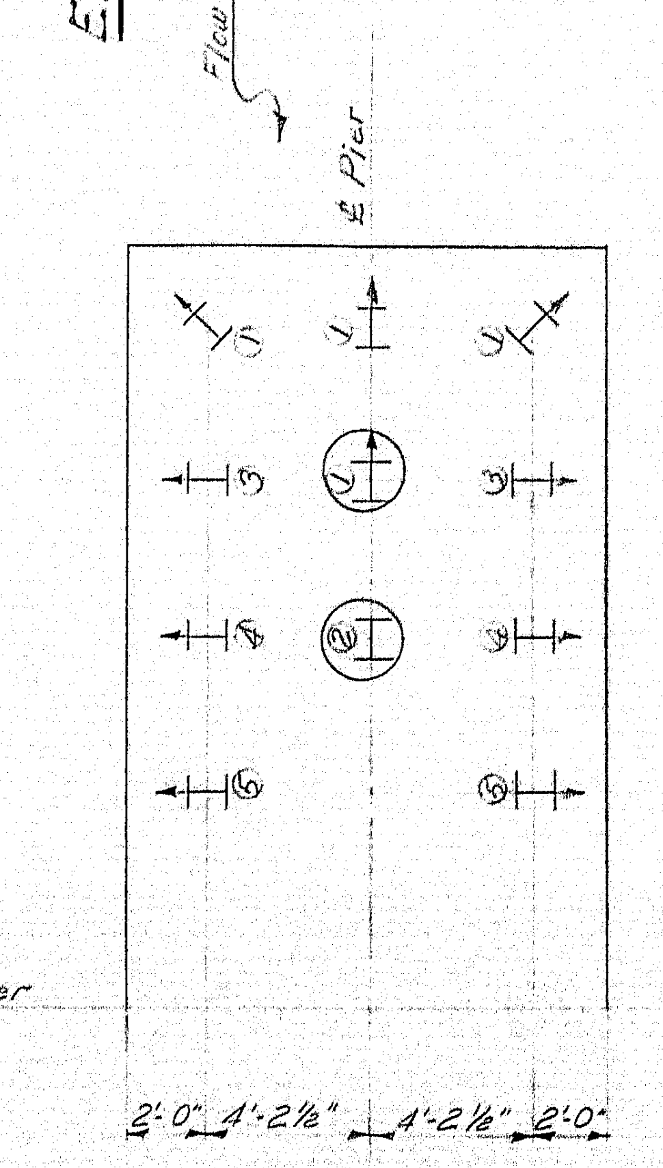
PLAN-PIER CAP



ELEVATION-PIER No.2



PLAN VIEW
Cap Not Shown



PILE PLAN
Dimensions @ El. 57.0
For Pile Notes & Pile Schedule See Sheet #23

For General Pier Notes, See Sheet No 23

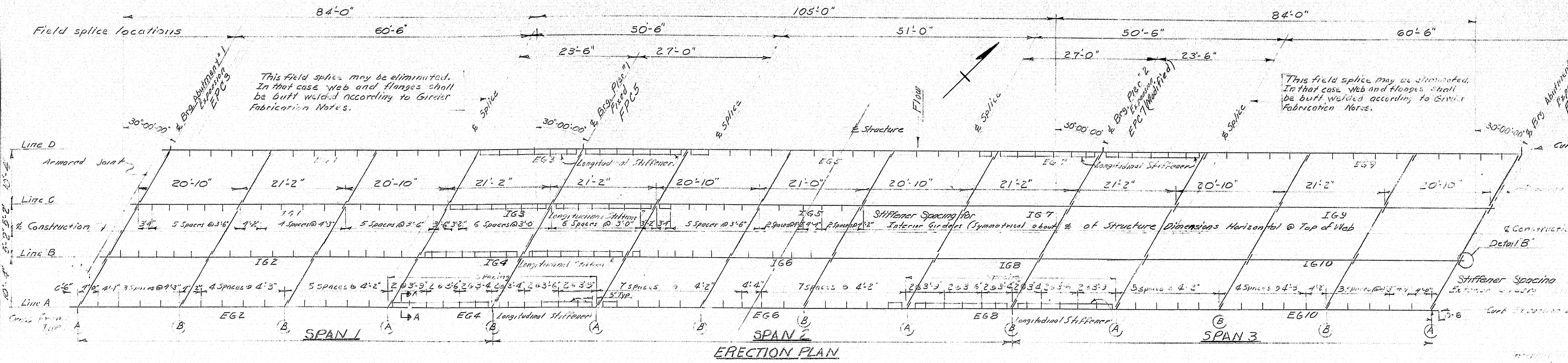
DESIGN- Doten
TRACE+DETAIL- G.E.A.
CHECK- T.H.K.

BRIDGE NO. 5161
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
SANDY RIVER BRIDGE
OVER
SANDY RIVER
IN THE TOWN OF
STRONG
FRANKLIN COUNTY
PIER 2
SHEET 24 OF 32 AUGUSTA, MAINE May 1964

92-33

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

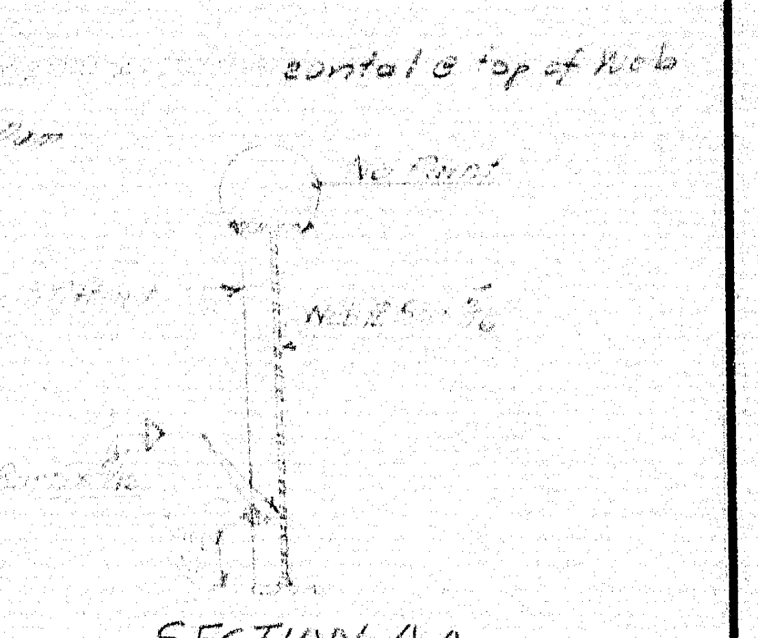


This field splice may be eliminated. In that case Web and flanges shall be butt welded according to Girder Fabrication Notes.

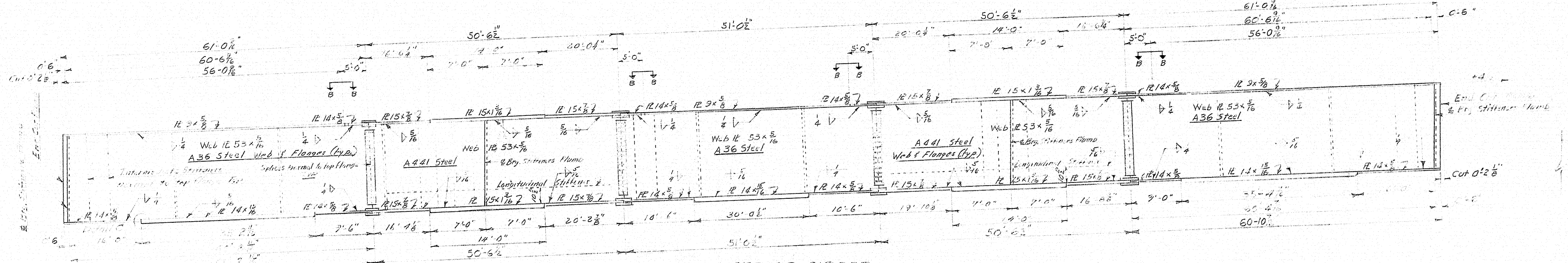
This field splice may be eliminated. In that case Web and flanges shall be butt welded according to Girder Fabrication Notes.

ERECTION PLAN

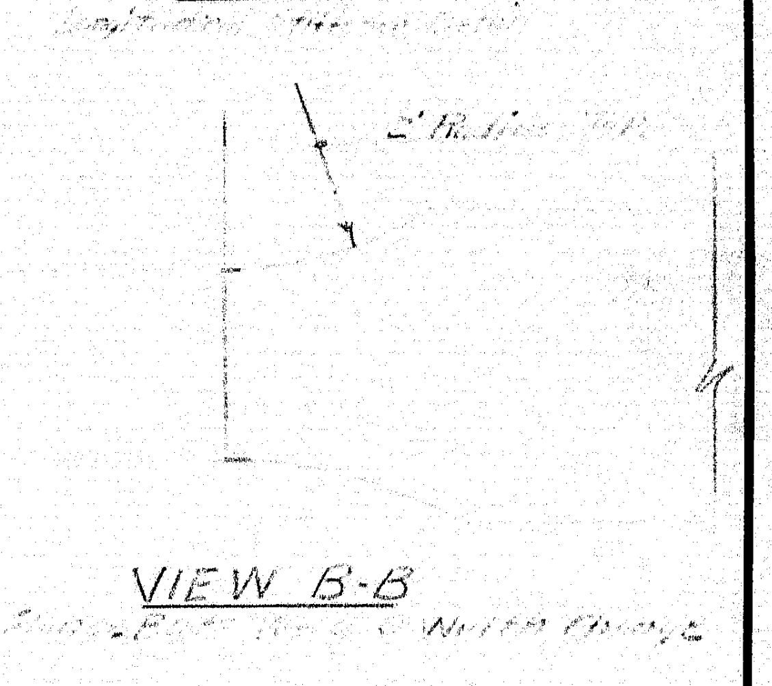
All dimensions horizontal



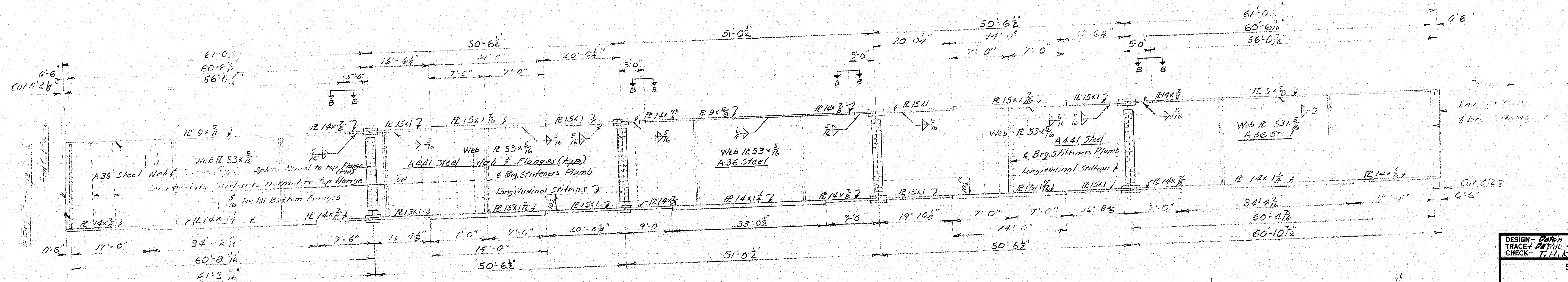
SECTION A-A

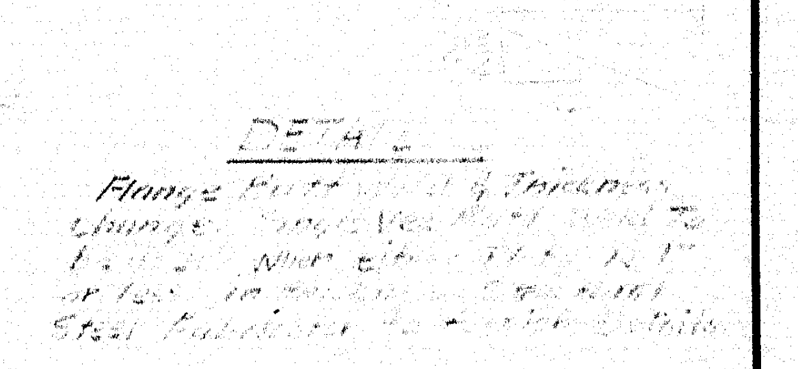


EXTERIOR GIRDER



VIEW B-B





INTERIOR GIRDER

ELEVATION: EXTERIOR & INTERIOR GIRDERS - DIMENSIONS ALONG STEEL

NOTE

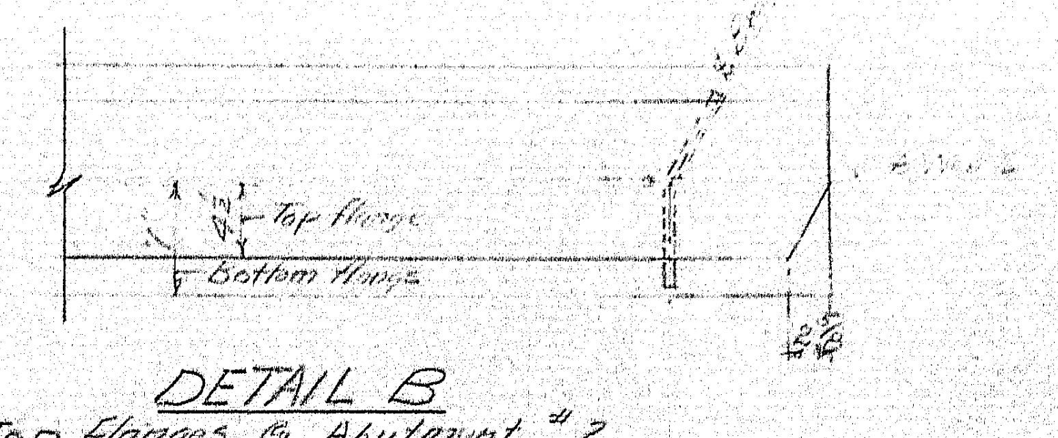
The contractor has the option of eliminating flange butt welds by extending the larger flange plate, shown at each girder, for the entire length of the girder.

Any such changes are subject to approval by the Engineer and may result in additional changes on plans such as; blocking, camber, field splices, abutment bridge seat elevations, etc.

If the contractor selects the above option, plans will be modified to take care of the above mentioned possible changes. No additional compensation shall be made to the contractor for any changes resulting from using this option.

All intermediate Stiffeners on Interior Girders are ℞ 6" × 3/8"
All intermediate Stiffeners on Exterior Girders are ℞ 6" × 3/8"

For General Notes & References see Sh. # 26



DETAIL B

Cut Top Flanges @ Abutment # 2

DESIGN- Doton
TRACE & DETAIL - G.E.A.
CHECK- T.H.K.

BRIDGE NO. 5161
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
SANDY RIVER BRIDGE
OVER
SANDY RIVER
IN THE TOWN OF
STRONG
FRANKLIN COUNTY
FRAMING PLAN
SHEET 25 OF 32 AUGUSTA, MAINE May 1964

92-34