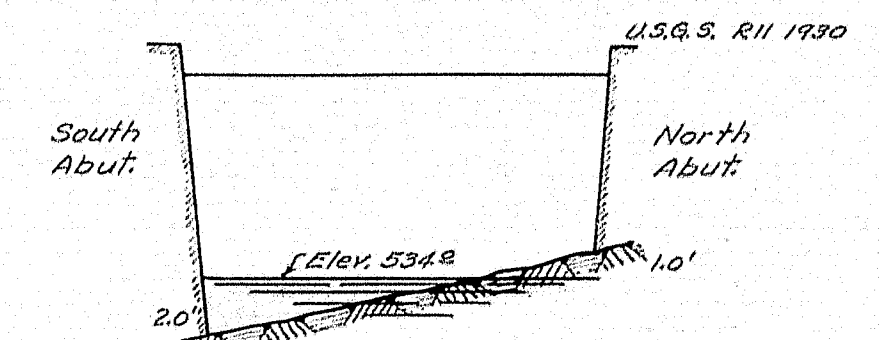
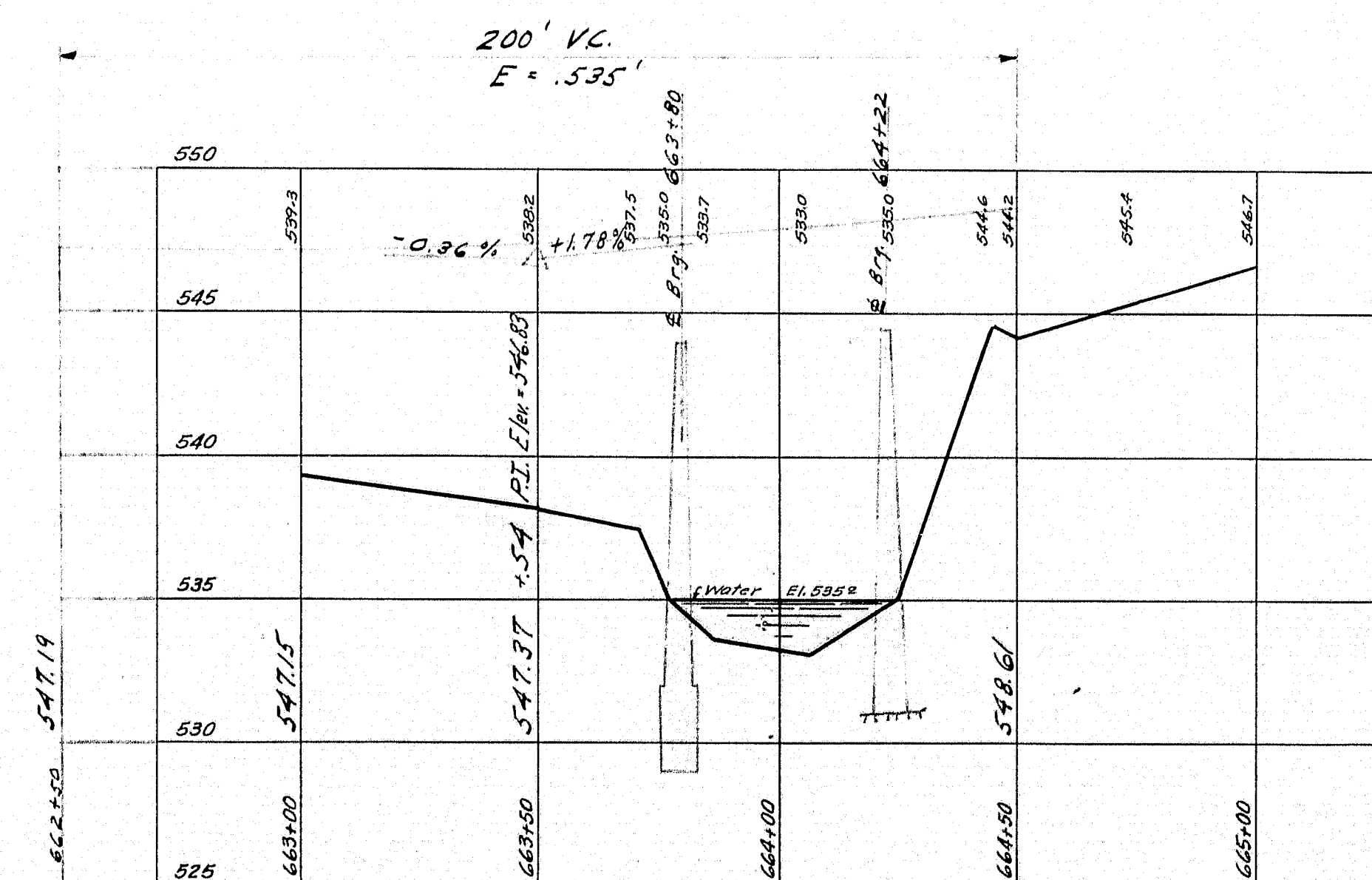
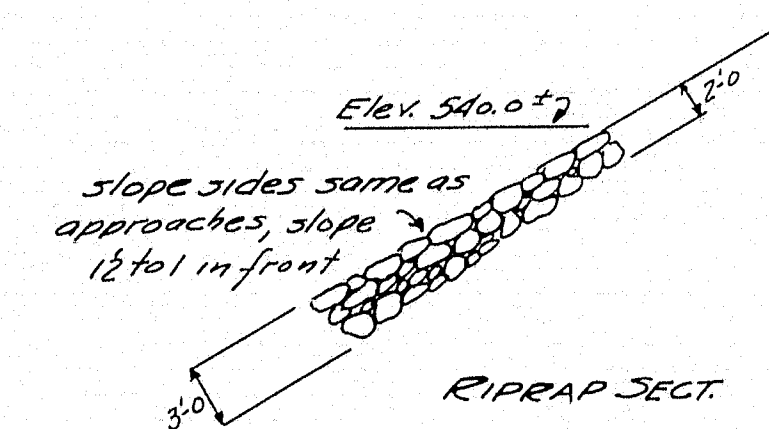
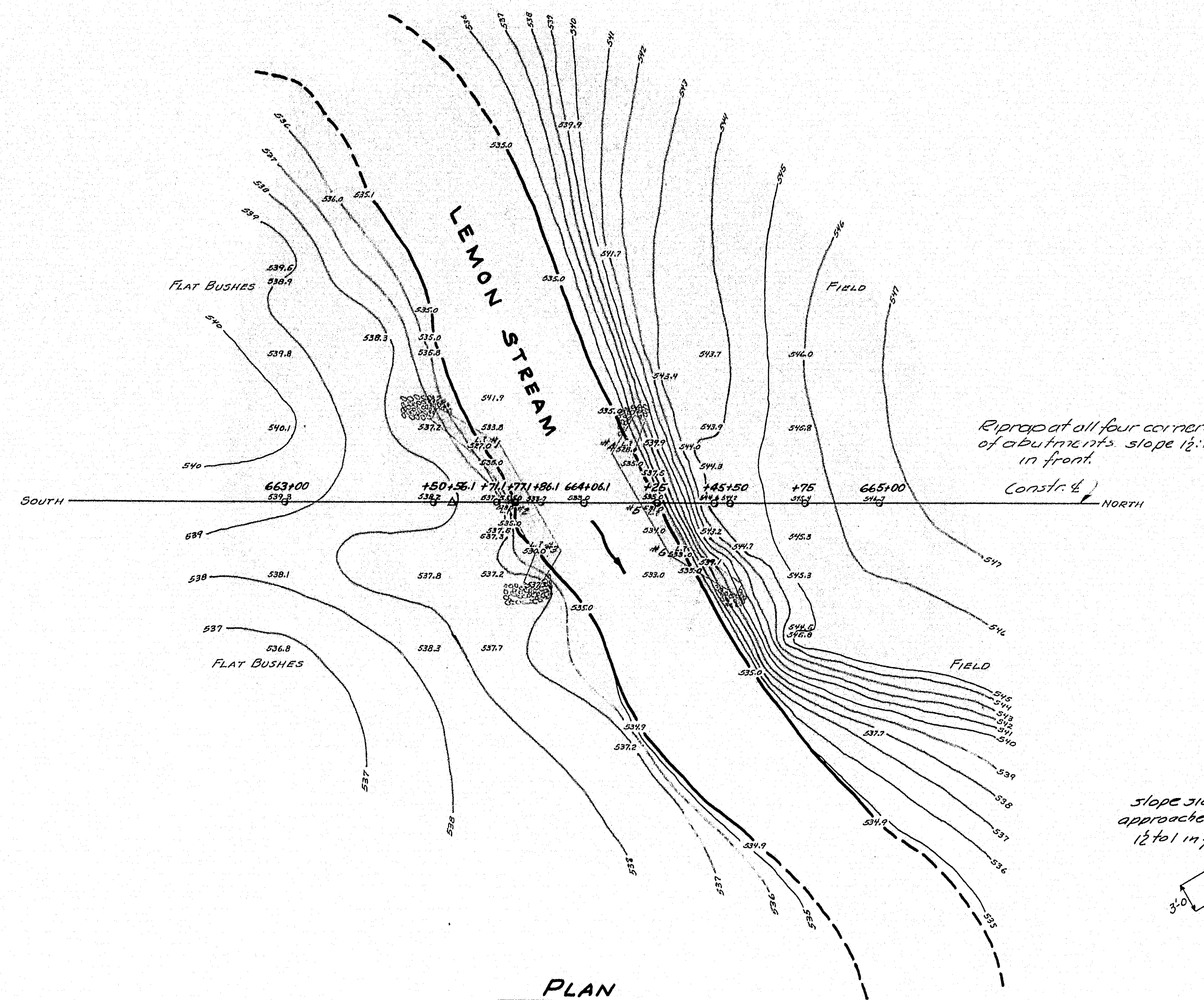


GENERAL NOTES

Highway Line about 500 ft. upstream from present bridge.
 Existing Bridge:
 Reinforced concrete T-beam. Good condition.
 Existing Substructure:
 Mass concrete abutments. Good condition.
 Stream:
 Formerly mill pond at dam just below present bridge.
 Present bridge always takes care of flow.
 Foundation:
 Sand and silt in stream bed.
 Bench Mark:
 T.R. 6 Highway Elev 547.51. U.S. Geological Survey disc.
 Top parapet, upstream side, North abutment,
 stamped R11 1930
 Soundings:
 All thru silty sand to refusal. Possible ledge.
 All rods below water at El. 535. #1-8', #2-7', #3-5',
 #4-7', #5-4', #6-2'.



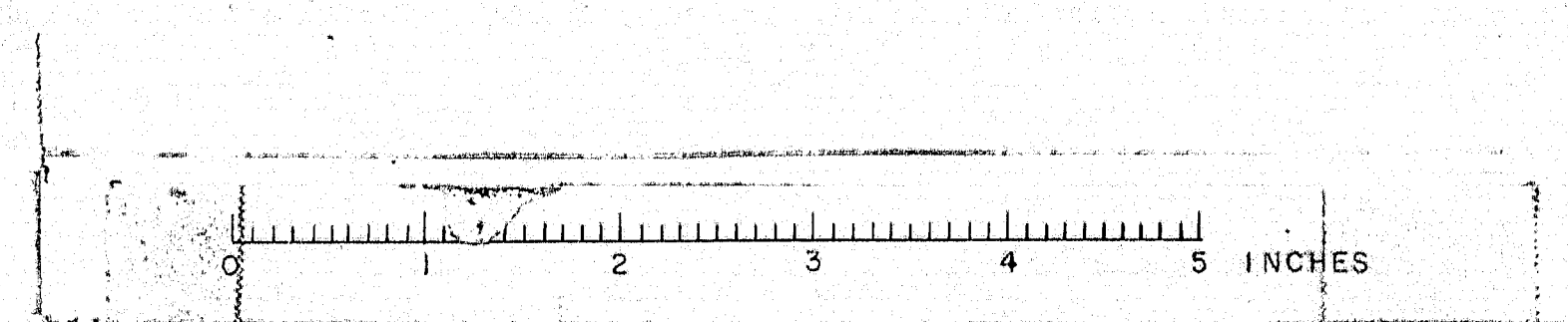
UPSTREAM PROFILE EXISTING BRIDGE
 Water at bridge 1.0 ft. lower than at survey line.

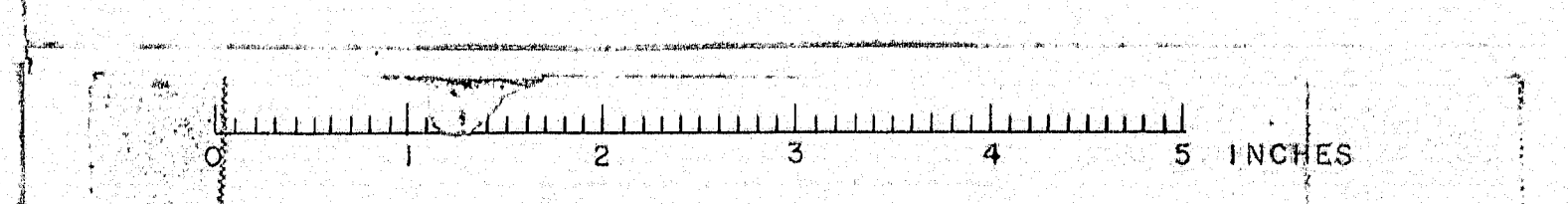
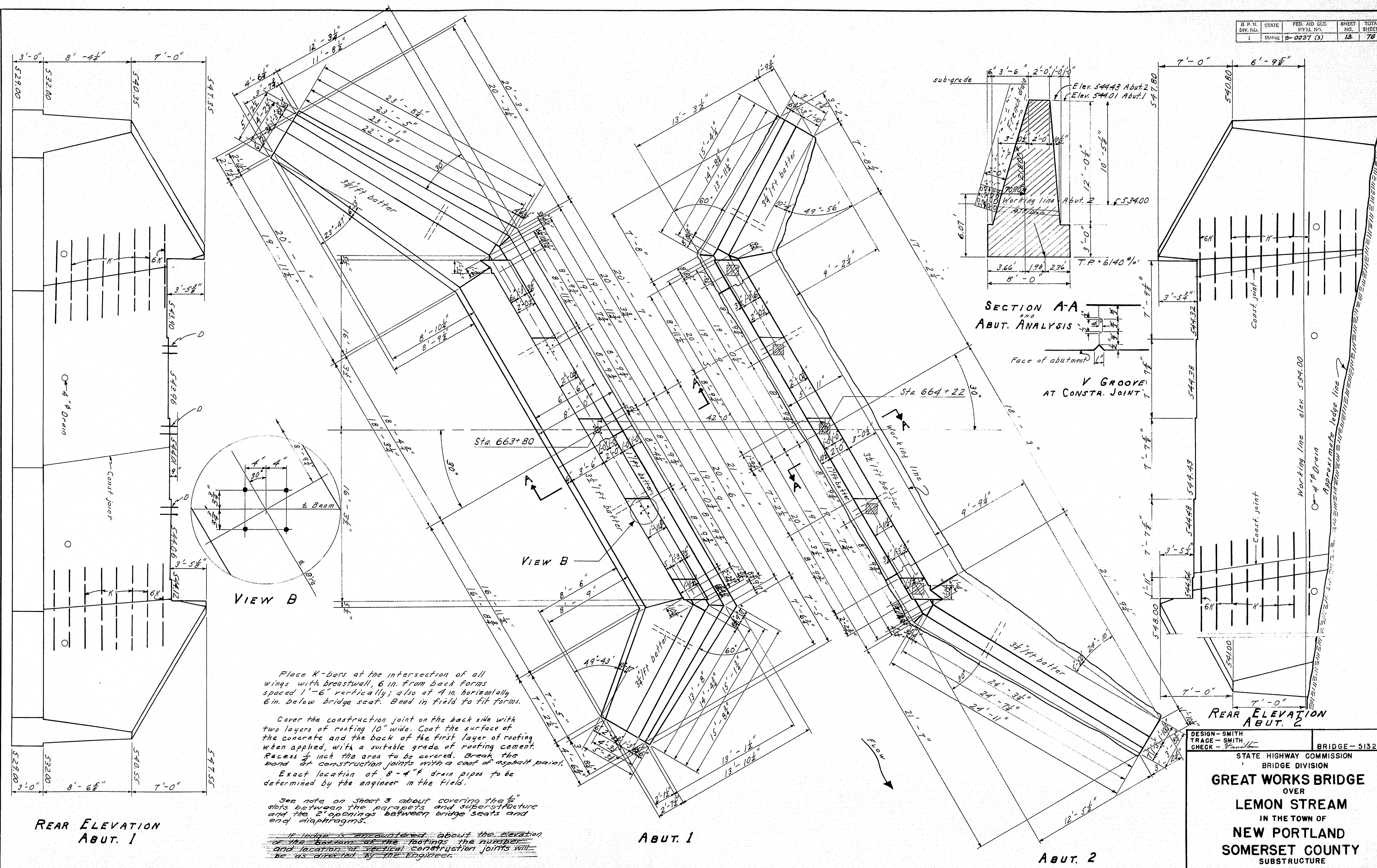


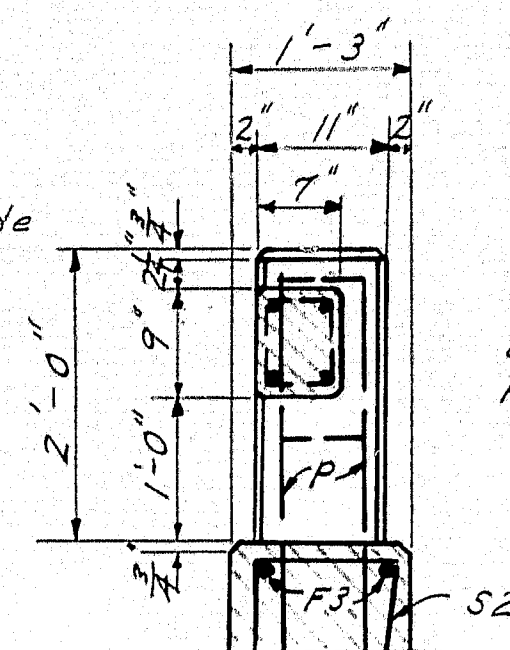
ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	QUAN.	UNIT
802-12	Struct. Earth - Abutts + Ret. Walls	260	C.Y.
701-33	Port. Cem. Conc. - Abutts + Ret. Walls	3,470	C.Y.
701-41	" " " - Superstr. T-Beam Type	71	"
701-42	" " " - Wearing Surface	17	"
701-46	" " " - Rail	35	L.F.
701-47	Portland Cement	5.15	Bbls.
701-49	Expansion Bearings	5	Sets
705-13	Reinf. Steel, Delivered	23,500	Lbs.
705-14	" " " Placing	23,500	"
802-3	Gravel	Neg.	
904-5	French Drains	10.5	C.Y.
705-30	Anch. for Type 'A' Gr. P.	4	Each
907-12	Hand Laid Riprap	40	C.Y.

SURVEY - BLAKE
 PLOT - HARRIS
 STATE HIGHWAY COMMISSION
 BRIDGE DIVISION
GREAT WORKS BRIDGE
 OVER
LEMON STREAM
 IN THE TOWN OF
NEW PORTLAND
SOMERSET COUNTY
 SURVEY
 SHEET 1 OF 4 AUGUSTA, MAINE NOV. 1952

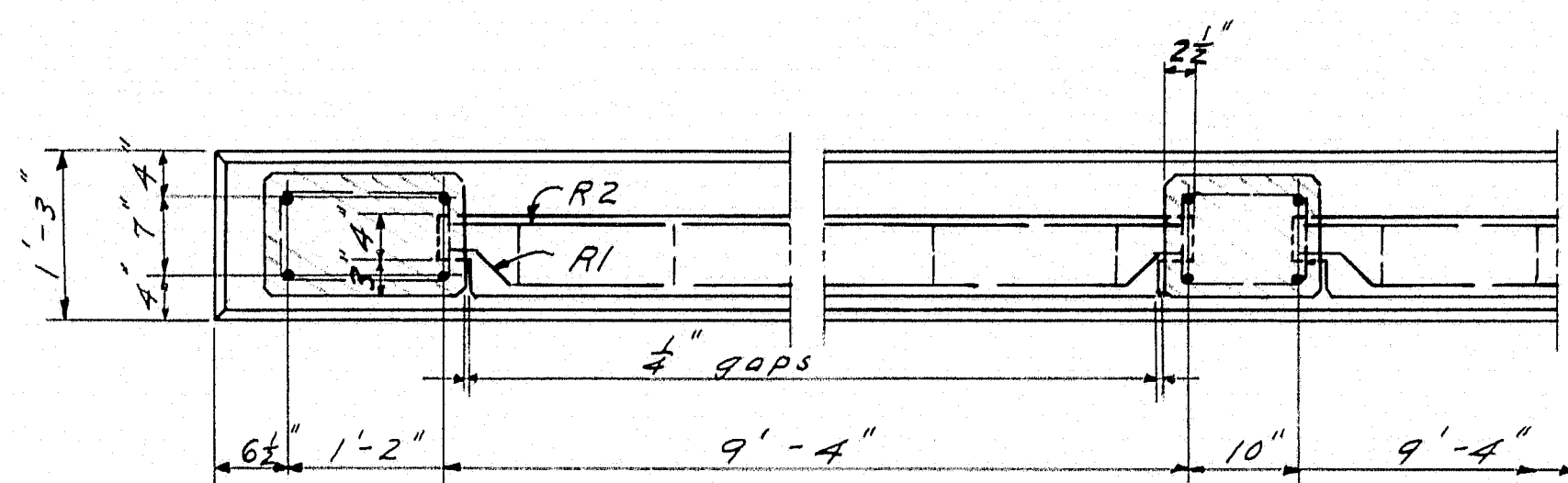
M 534







Vertical dimensions are
at $\pm$ of Int. Posts.
All posts to be vertical



Curb to be cast with slab. Steel for posts to be in position before curb is placed. Rail bar to be precast and set in position with the ends projecting into post forms $2\frac{1}{2}$ ". Wrap tongue ends with two layers of roofing; cut away exposed roofing after post forms are removed.

Construct wire stirrups in the field from a single strand of #9 annealed wire, making a complete turn around each reinforcing bar.

Chamfer all exposed edges of concrete $\frac{1}{2}$ " unless otherwise indicated.

Depress W.S. $\frac{1}{2}$ " at drain

6"

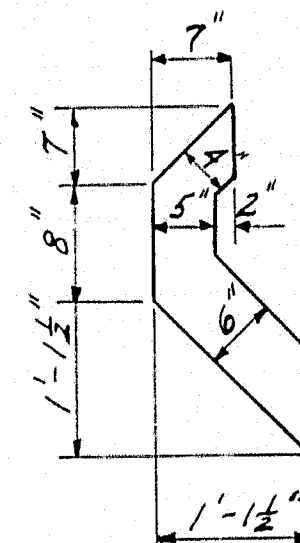
2" lip around drain

2' - $\frac{1}{2}$ "

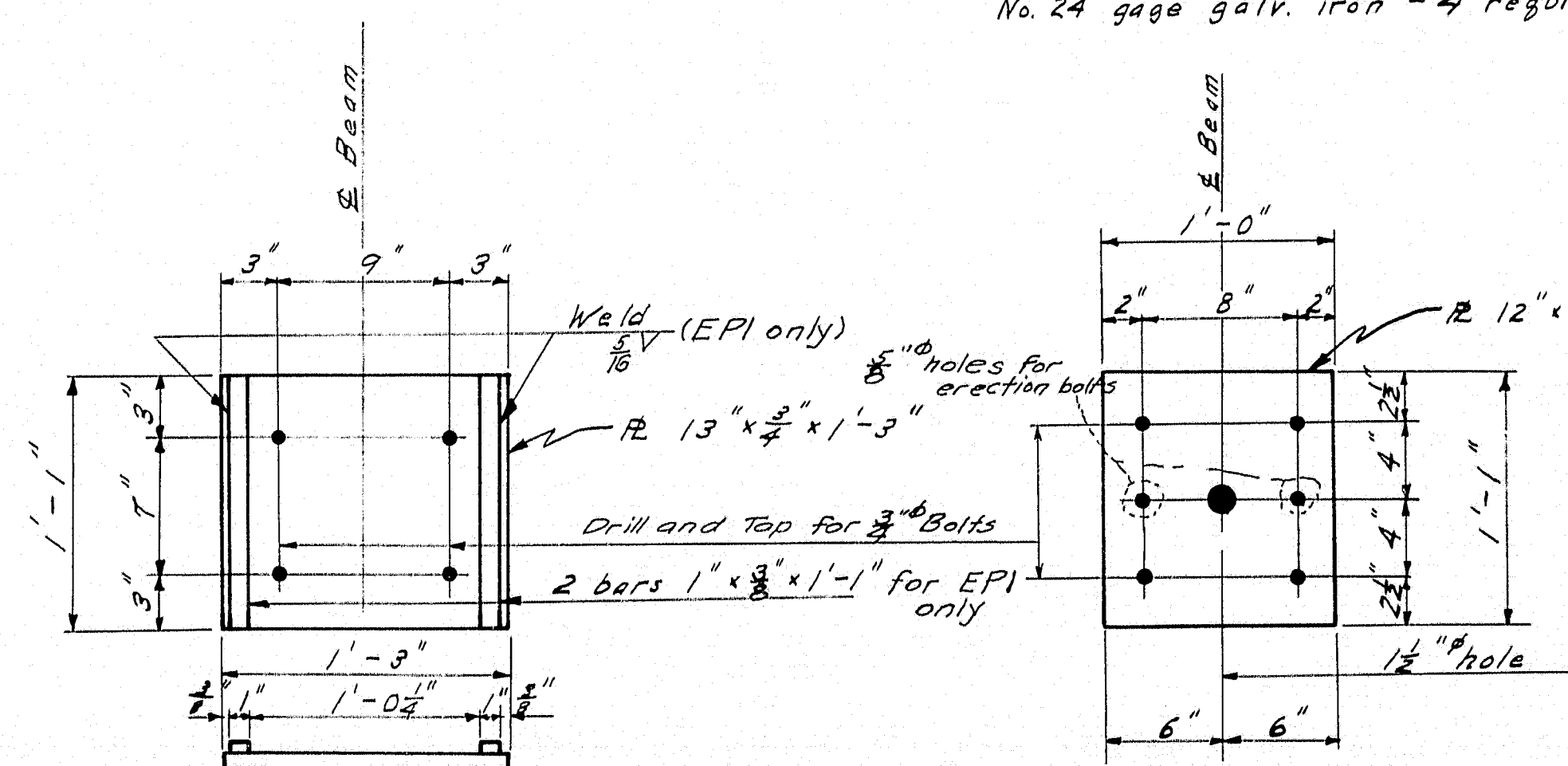
8 1/2"

8 1/2"

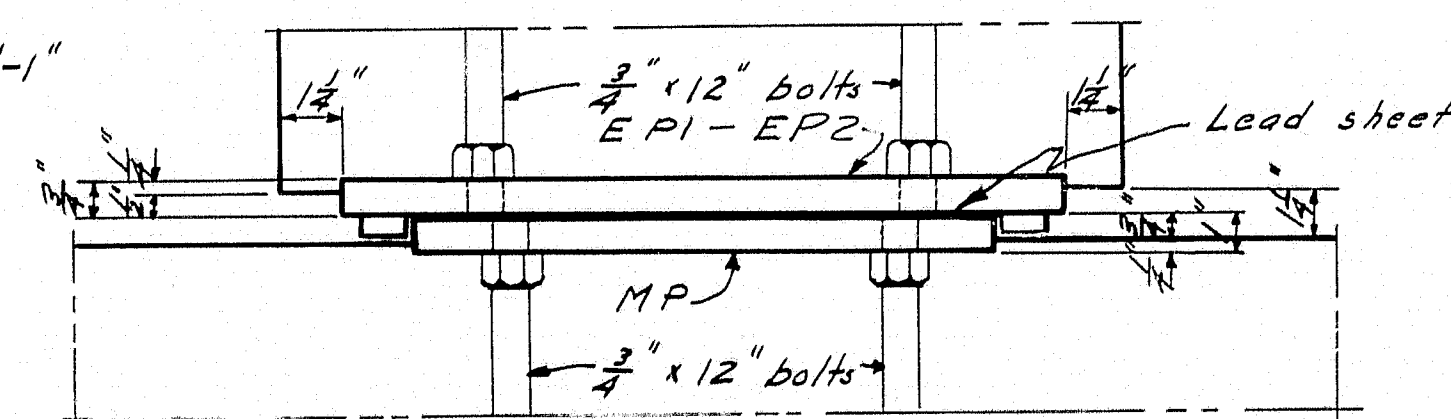
6"



No. 24 gage galv. iron - 4 required



MP

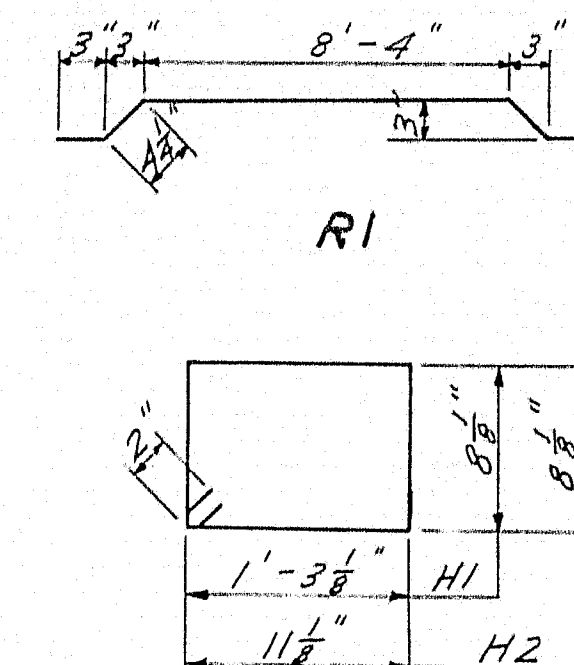
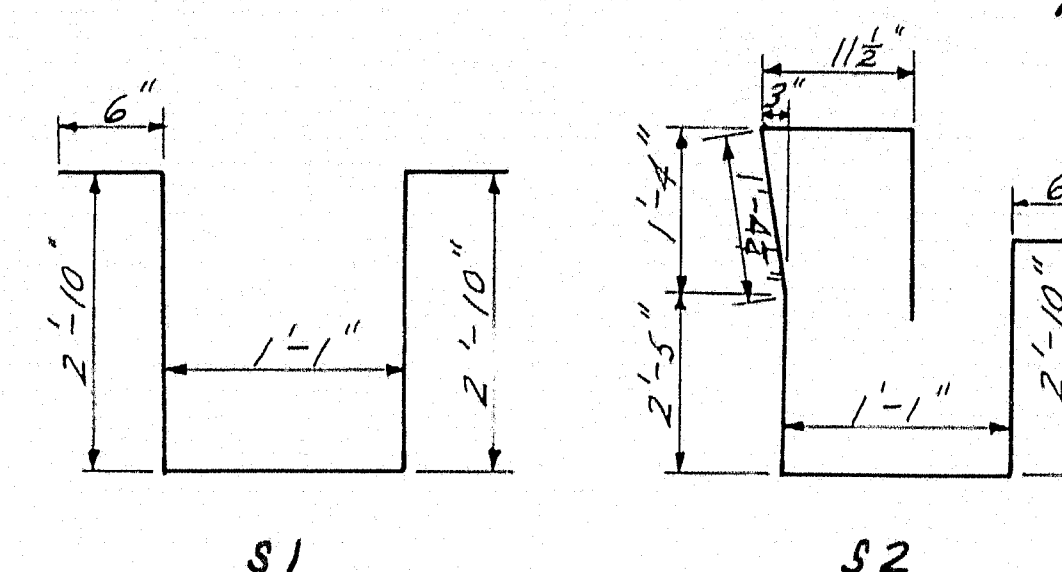
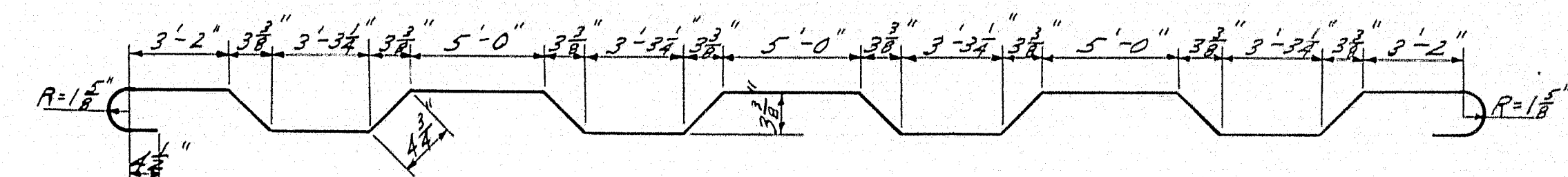


The $\frac{3}{4}"$ bolts should not be allowed to project through the plates. No bars on EP2.

Material required: 5-MP; 3-EPI; 2-EP2
5-8#/p lead sheets 12"x1'-1"
40- $\frac{3}{4}$ " x 12" bolts with one hex nut

[illegible]

G 2-3-4



H1-2

[illegible]

NOTE: All reinforcing steel bars shall conform to A.S.T.M. Specifications A 305-49

SUBSTRUCTURE	CLASS B
SUPERSTRUCTURE	" A
WEAR SURFACE	" AA
RAIL	" Y

Loading H20-44
 $f_s = 18,000 \text{ psi}; f_c = 1200 \text{ psi}; n = 10$

DESIGN - SMITH	BRIDGE - 5132
TRACE - SMITH	
CHECK - <i>Hamilton</i>	

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

GREAT WORKS BRIDGE

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DETAILS
SHEET 4 OF 4 AUGUSTA, MAINE APR. 1953

M. 537

