FED. ROAD DIST. NO.	STATE	FLOOD RELIEF PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.	12D	1926	1	25

INDEX OF SHEETS

STATE OF VERMONT

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

FEDERAL AID PROJECT

Pin# 99R939

TOWNS OF RANDOLPH-BETHEL

RANDOLPH-BETHEL ROAD

BR 34 MP 3.342-4.022

BRIDGE OVER CAMP BROOK
LOCATED 3.3 MILES SOUTH OF BETHEL-RANDOLPH LINE
LENGTH 950 FEET= 0.180 MILES

BR 33 MP 3.412-3.420

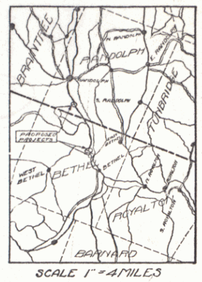
BRIDGE LOCATED 4.0 MILES SOUTH OF BETHEL-RANDOLPH LINE
LENGTH 45 FEET= .009 MILES

BETHEL

BR 40 MP 5.428-5.372

BEANVILLE BRIDGE OVER BEANVILLE BROOK
LOCATED 1.8 MILES SOUTH OF RANDOLPH VILLAGE ON ROUTE 12
LENGTH 300 FEET=0.056 MILES

RANDOLPH



SCALE 1"=4 MILES

LAYOUT
SEE SHEET 3

SCALES
PLAN 1"=20 Ft.
PROFILE { VERT. 1"=20 Ft. / HORIZ. 1"=20 Ft.
SECTIONS 1"= 5 Ft.

THIS PROJECT TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS ON FILE WITH THE U.S. BUREAU OF PUBLIC ROADS. APPROVED 7/7/26

STRUCTURES ON THIS PROJECT TO BE CONSTRUCTED IN ACCORDANCE WITH DETAILS GIVEN ON STANDARD STRUCTURE SHEETS. SERIES NOS. S17-18-19

DISTRICT NO. 5-7
BRIDGE NO. 25-97-173
RANDOLPH-BETHEL

RIGHT-OF-WAY DIVISION
T O W N F I L E
PERPETUAL
Rte
Town of VT 12
(To Be Returned To R.O.W. Division)

APPROVED: 6/22/26
H. E. Sargent
CHIEF ENGINEER

SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD
C. B. Bates
COMMISSIONER OF HIGHWAYS

RECOMMENDED
DISTRICT ENGINEER
BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL
CHIEF ENGINEER
BUREAU OF PUBLIC ROADS

APPROVED
DIRECTOR - BUREAU OF PUBLIC ROADS

SERIES F. NO. 12D FILED
SHEET 1 OF 25

CONVENTIONAL SIGNS

COUNTY LINE
TOWN LINE
FENCE LINE
STONE WALL
UNFENCED PROPERTY
GUARD RAIL
TRAVELED WAY
RAILROAD
RETAINING WALL
CENTER LINE — PC. 50+00
SURVEY LINE
CULVERT
DROP INLET
TROLLEY POLE
POWER POLE
TELEPHONE POLE
TREES
HEDGE

GROUND ELEVATION ..... DATUM 1845 LINE
GRADE ELEVATION ..... DATUM 1875 LINE

CURVE DATA

DEFLECTION ANGLE ..... Δ
DEGREE OF CURVE ..... D.
RADIUS OF CURVE ..... R.
TANGENT DISTANCE ..... T.
LENGTH OF CURVE ..... L.
EXTERNAL DISTANCE ..... E.
POINT OF INTERSECTION ..... P. I.
POINT OF CURVE ..... P. C.
POINT OF TANGENT ..... P. T.
POINT ON TANGENT ..... P.O.T.

Project No. F 12D

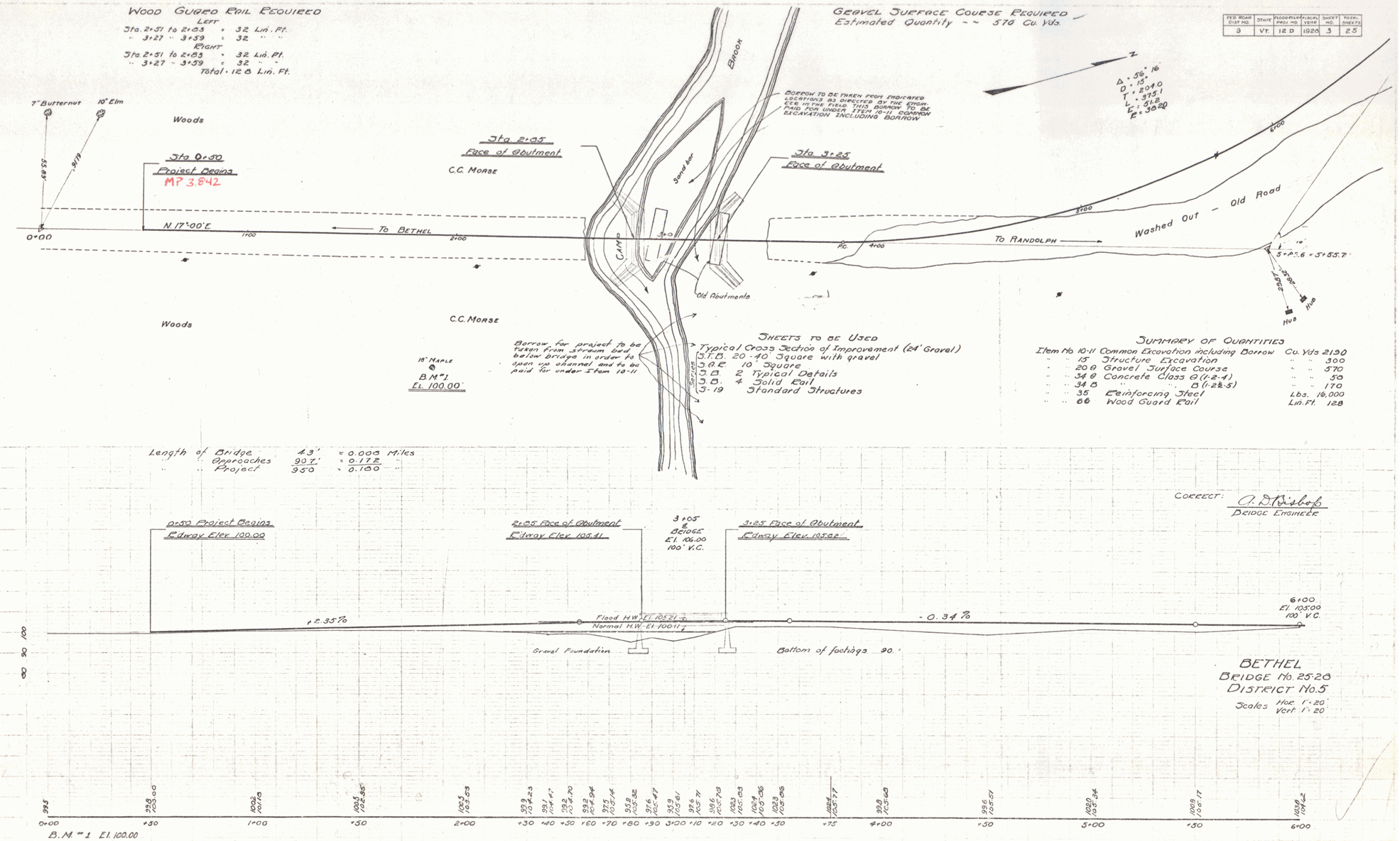
DIST. # 4 PLANS 1

FED. ROAD DIST. NO.	STATE	FLOOD CONT. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	Vt.	12 D	1928	3	25

Wood Guard Rail Required

Left
Sta. 2+51 to 2+83 = 32 Lin. Ft.
" 3+27 " 3+59 = 32 " "
Right
Sta. 2+51 to 2+83 = 32 Lin. Ft.
" 3+27 " 3+59 = 32 " "
Total = 128 Lin. Ft.

Gravel Surface Course Required
Estimated Quantity ~~ 570 Cu. Yds.



Sheets to be Used

→	Typical Cross Section of Improvement (24' Gravel)
S.T.B. 20-40	Square with gravel
S.P.E. 10	Square
S.B. 2	Typical Details
S.B. 4	Solid Rail
S-19	Standard Structures

Summary of Quantities

Item No. 10-11	Common Excavation including Borrow	Cu. Yds.	2130
" " 15	Structure Excavation	" "	300
" " 20 B	Gravel Surface Course	" "	570
" " 34 B	Concrete Class B (1-2-4)	" "	50
" " 34 B	" " A (1-2½-5)	" "	170
" " 35	Reinforcing Steel	Lbs.	16,000
" " 66	Wood Guard Rail	Lin. Ft.	128

Length of Bridge 43' = 0.008 Miles
" " Approaches 907' = 0.172 "
" " Project 950 = 0.180 "

Correct: O. D. Bisbee
Bridge Engineer

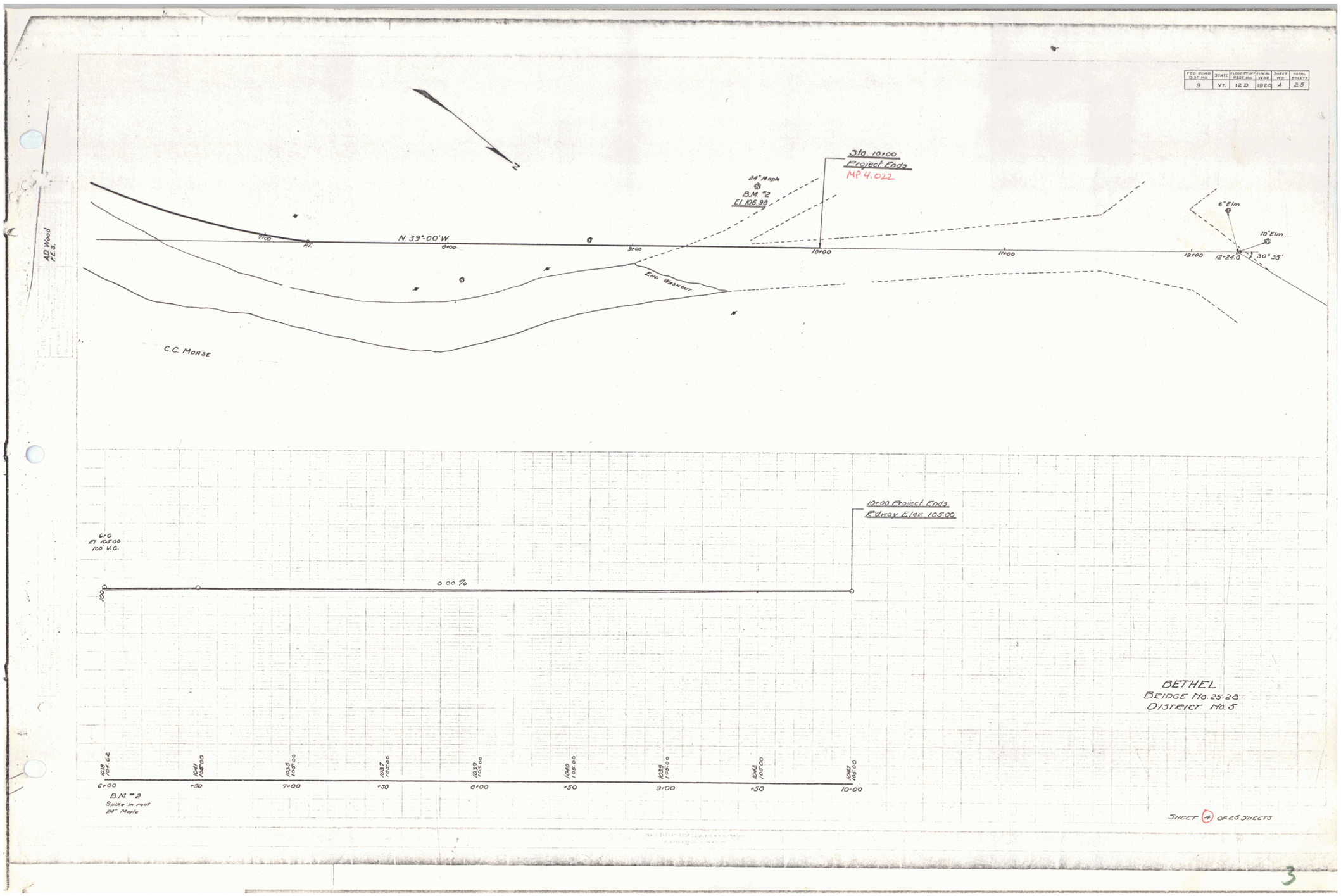
B.M. #1 El. 100.00
Spike in root of 16" Maple
Sta. 1+30 E

BETHEL
Bridge No. 25-28
District No. 5
Scales Hor. 1" = 20'
Vert. 1" = 20'

Sheet 3 of 25 Sheets

2

FED. ROAD DIST. NO.	STATE	FLOOD PROJ. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	Vt.	12.D	1926	4	25



BETHEL
BRIDGE No. 25-28
DISTRICT No. 5

SHEET (4) OF 25 SHEETS

3

Wood Guard Rail Required
Left
Sta. 1+95 to sta. 2+27 = 32 ft.
Right
Sta. 2+00 to sta. 2+35 = 40 ft.
Sta. 1+95 to Sta. 2+35 = 72 ft.

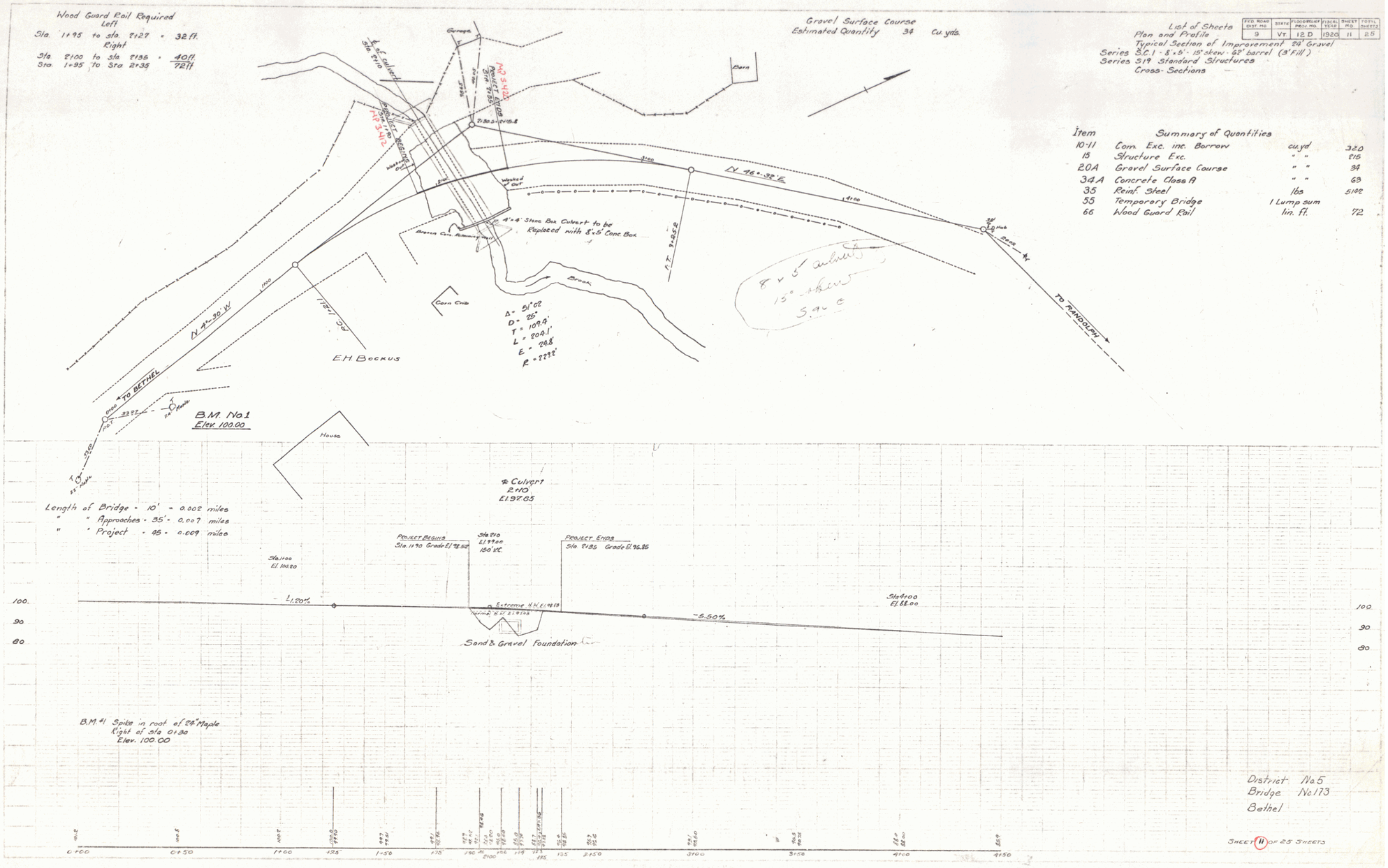
Gravel Surface Course
Estimated Quantity 34 Cu. yds.

FED. ROAD DIST. NO.	STATE	FLOOD RELIEF PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT	12 D	1926	11	25

List of Sheets
Plan and Profile
Typical Section of Improvement 24' Gravel
Series S.C.1 - 8'x5' - 15° skew - 68' barrel (3' Fill)
Series S.19 Standard Structures
Cross-Sections

Summary of Quantities

Item			
10-11	Com. Exc. inc. Borrow	cu.yd	320
15	Structure Exc.	" "	815
20A	Gravel Surface Course	" "	34
34A	Concrete Class A	" "	63
35	Reinf. Steel	lbs	5142
55	Temporary Bridge	1 Lump sum	
66	Wood Guard Rail	lin. ft.	72



B.M. No 1
Elev. 100.00

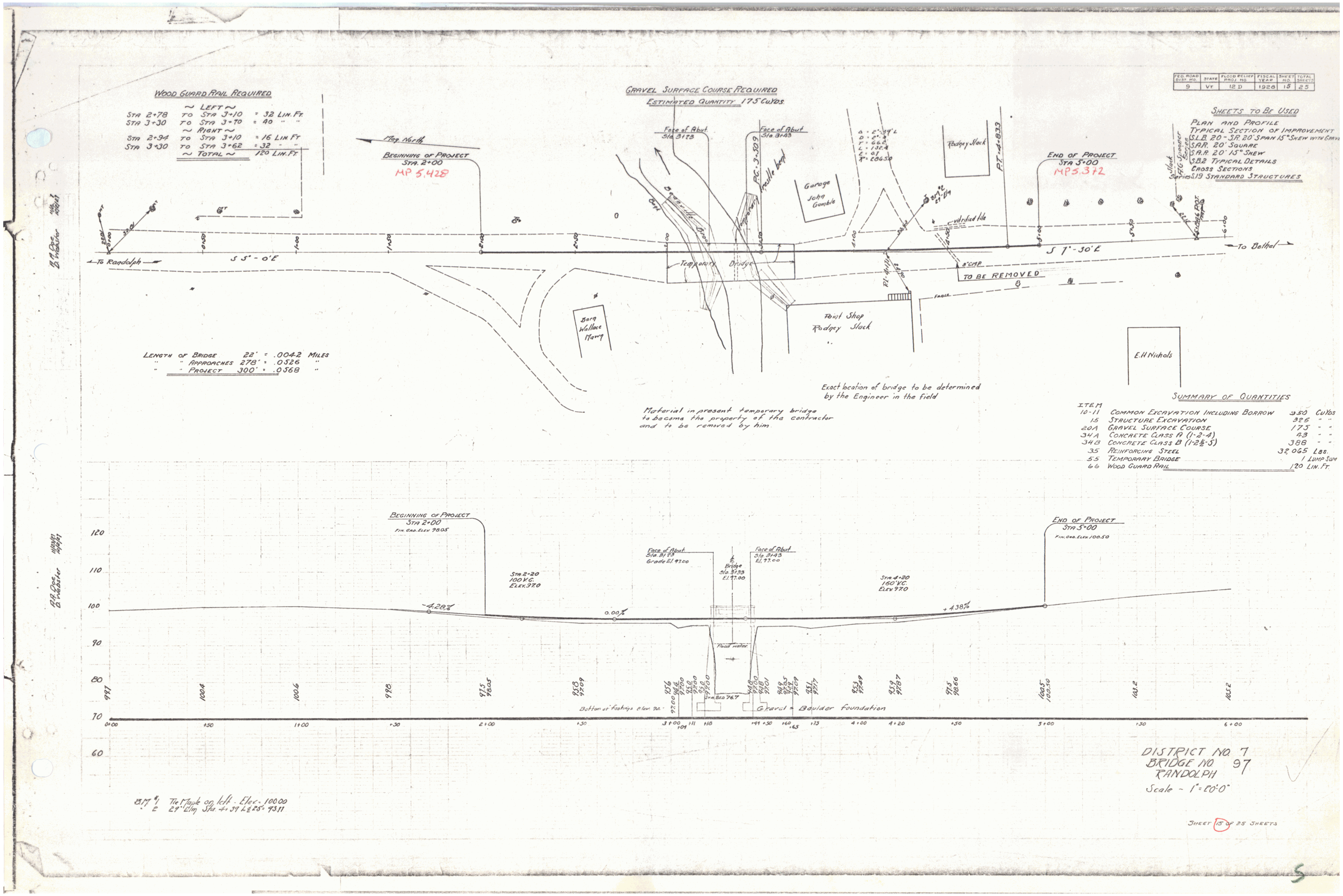
Length of Bridge = 10' = 0.002 miles
" " Approaches = 35' = 0.007 miles
" " Project = 45 = 0.009 miles

B.M. #1 Spike in root of 24" Maple
Right of Sta 0+30
Elev. 100.00

District No. 5
Bridge No. 173
Bethel

SHEET 11 OF 25 SHEETS

4


FED. ROAD DIST. NO. 9 | STATE VT. | FLOOD RELIEF PROJ. NO. 12 D | FISCAL YEAR 1928 | SHEET NO. 15 | TOTAL SHEETS 25
WOOD GUARD RAIL REQUIRED
~ LEFT ~
STA 2+78 TO STA 3+10 = 32 LIN. FT.
STA 3+30 TO STA 3+70 = 40 " "
~ RIGHT ~
STA 2+94 TO STA 3+10 = 16 LIN. FT
STA 3+30 TO STA 3+62 = 32 " "
~ TOTAL ~ 120 LIN. FT.
GRAVEL SURFACE COURSE REQUIRED
ESTIMATED QUANTITY 175 CU.YDS.
SHEETS TO BE USED
PLAN AND PROFILE
TYPICAL SECTION OF IMPROVEMENT
S.L.B. 20 - S.R. 20' SPAN 15° SKEW WITH GRAVE
S.A.R. 20' SQUARE
S.A.R. 20' 15° SKEW
S.B.2 TYPICAL DETAILS
CROSS SECTIONS
Series S.19 STANDARD STRUCTURES
A.G. Spooner Series
Mag. North
BEGINNING OF PROJECT
STA. 2+00
MP 5.428
END OF PROJECT
STA 5+00
MP 5.372
Face of Abut Sta 3+13
Face of Abut Sta 3+43
Garage John Gamble
Rodney Slack
Temporary Bridge
TO BE REMOVED
To Randolph
S 5°-0'E
S 1°-30'E
To Bethel
Paint Shop Rodney Slack
E.H Nichols
LENGTH OF BRIDGE 22' = .0042 MILES
" " APPROACHES 278' = .0526 "
" " PROJECT 300' = .0568 "
Exact location of bridge to be determined by the Engineer in the field
Material in present temporary bridge to become the property of the contractor and to be removed by him
SUMMARY OF QUANTITIES
ITEM
10-11 COMMON EXCAVATION INCLUDING BORROW 950 CU.YDS
15 STRUCTURE EXCAVATION 325 " "
20A GRAVEL SURFACE COURSE 175 " "
34A CONCRETE CLASS A (1-2-4) 43 " "
34B CONCRETE CLASS B (1-2½-5) 388 " "
35 REINFORCING STEEL 32,065 LBS.
55 TEMPORARY BRIDGE 1 LUMP SUM
66 WOOD GUARD RAIL 120 LIN. FT.
BEGINNING OF PROJECT
STA 2+00
END OF PROJECT
STA 5+00
Face of Abut
Face of Abut
Gravel + Boulder Foundation
DISTRICT NO. 7
BRIDGE NO. 97
RANDOLPH
Scale ~ 1" = 20'-0"
SHEET 15 OF 25 SHEETS