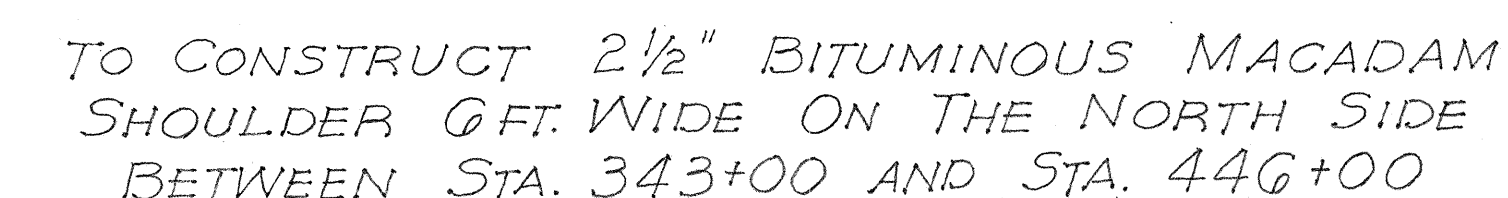


4-2-5  
4-9-5  
5-24-5



Scale:  $\frac{3}{8}" = 1' - 0"$

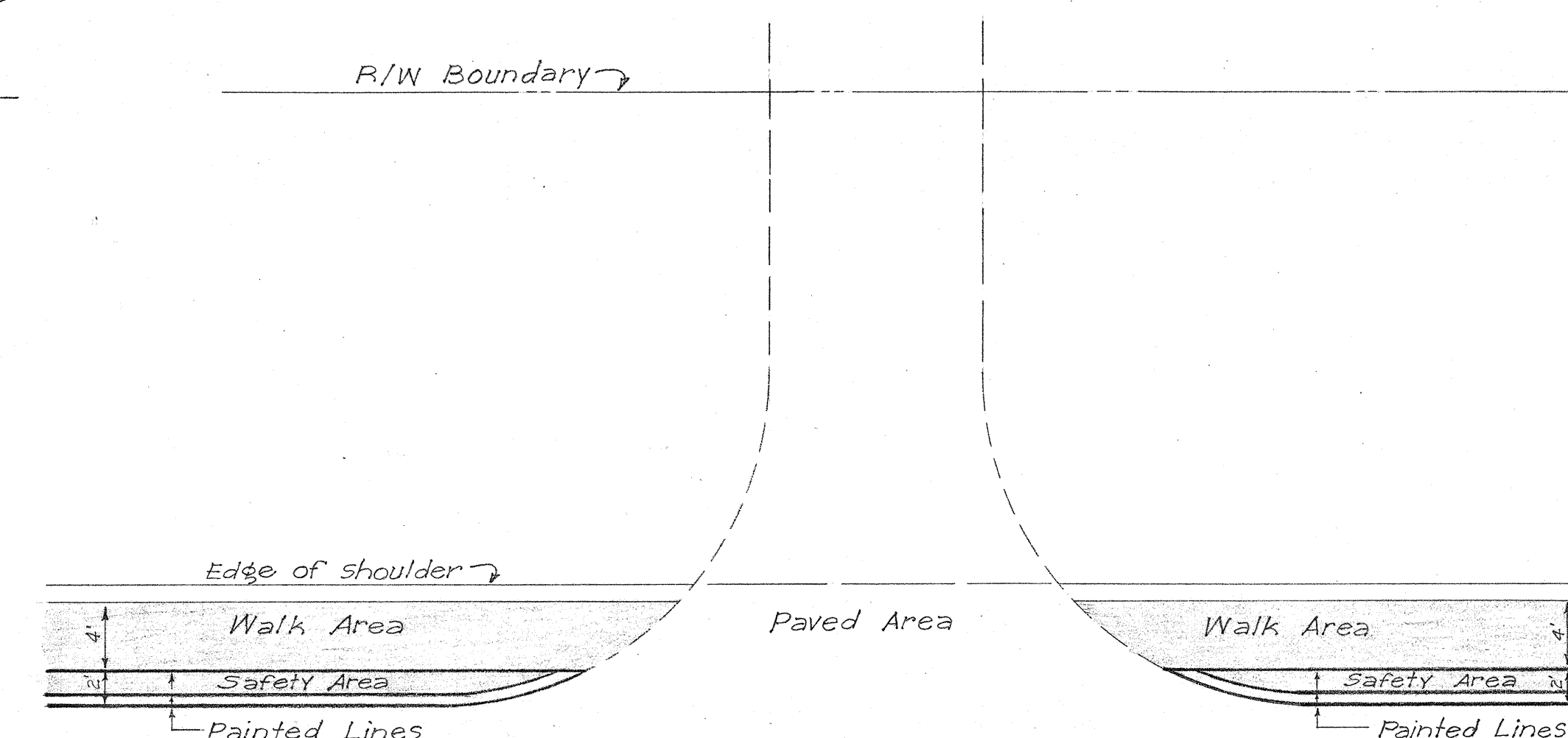


Item 2018 - Bituminous Binder	-	50 tons
Item 2021 - Chips	-	45 c.y.
Item 2022 - Rock Sand	-	30 c.y.
Item 2023 - Coarse Rock	-	650 c.y.
Item 2024 - Keystone	-	20 c.y.

Item 2204 - Trimming and Dressing Shoulders - an allowance of \$2000.00 in the proposal reduced by \$450.00

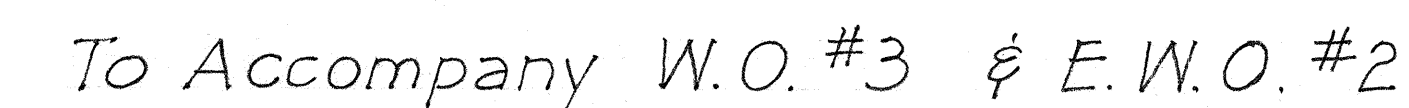
Scale:  $\frac{3}{8}" = 1' - 0"$

NOTE: Omit paved shoulders at driveways and side road intersections.



Scale:  $\frac{1}{8}" = 1'-0"$

Scale:  $3/8" = 1'-0"$



Scale:  $3/8" = 1' - 0"$

TERRITORIAL HIGHWAY DEPARTMENT  
TERRITORY OF HAWAII  
TYPICAL SECTION  
BITUMINOUS MACADAM SHOULDER  
MAHUKONA-NIULII ROAD  
FEDERAL AID SECONDARY PROJECT No. 5203(2)  
Scale: As Noted Feb. 1951

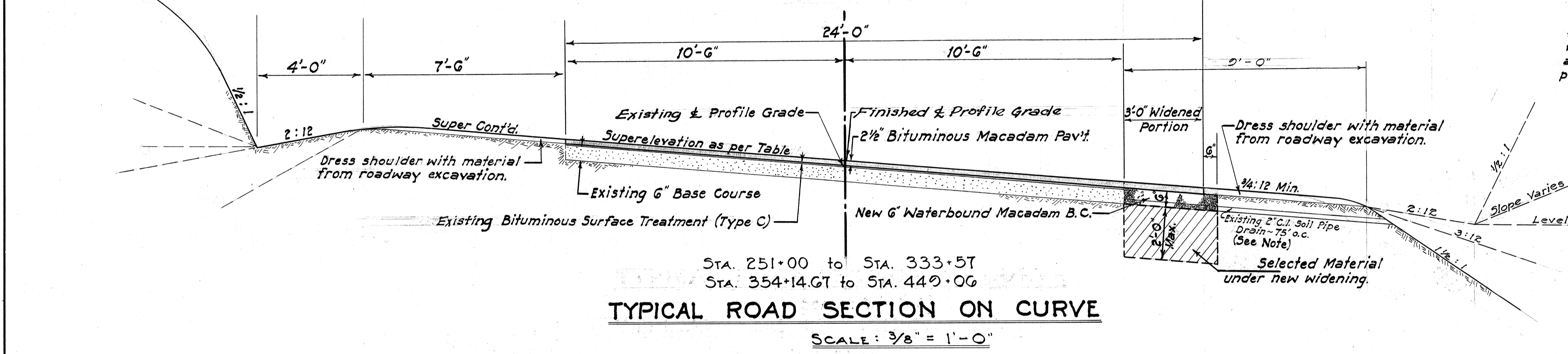
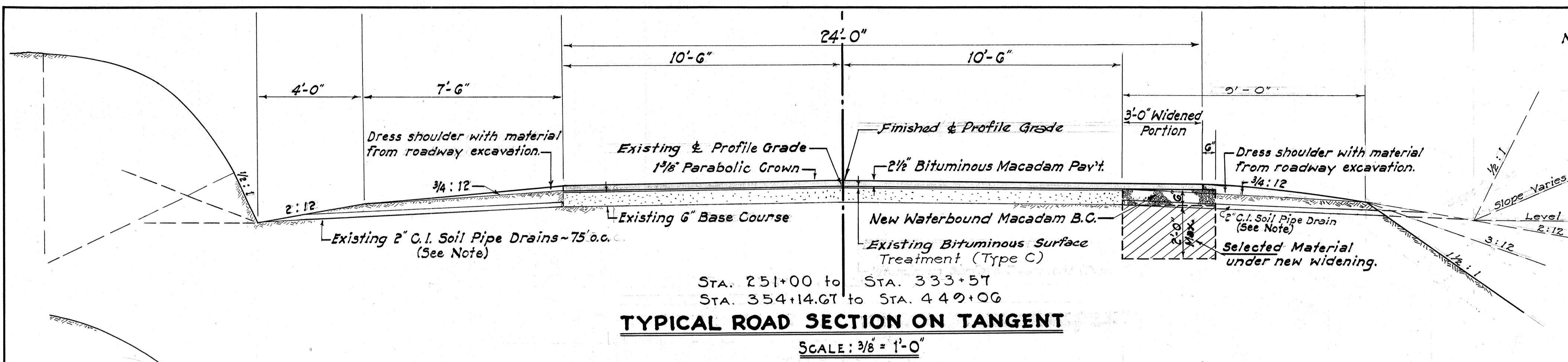
SHEET No. OF SHEETS

5495.1A

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	S 203(2)	1950	2	10

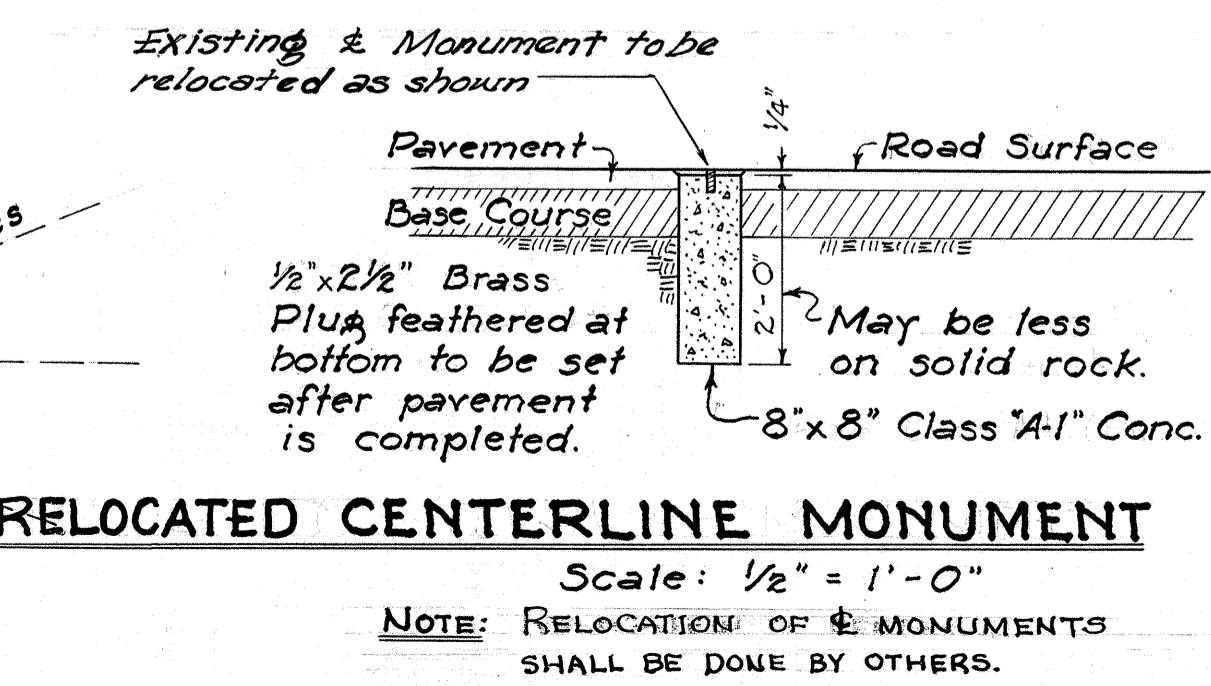
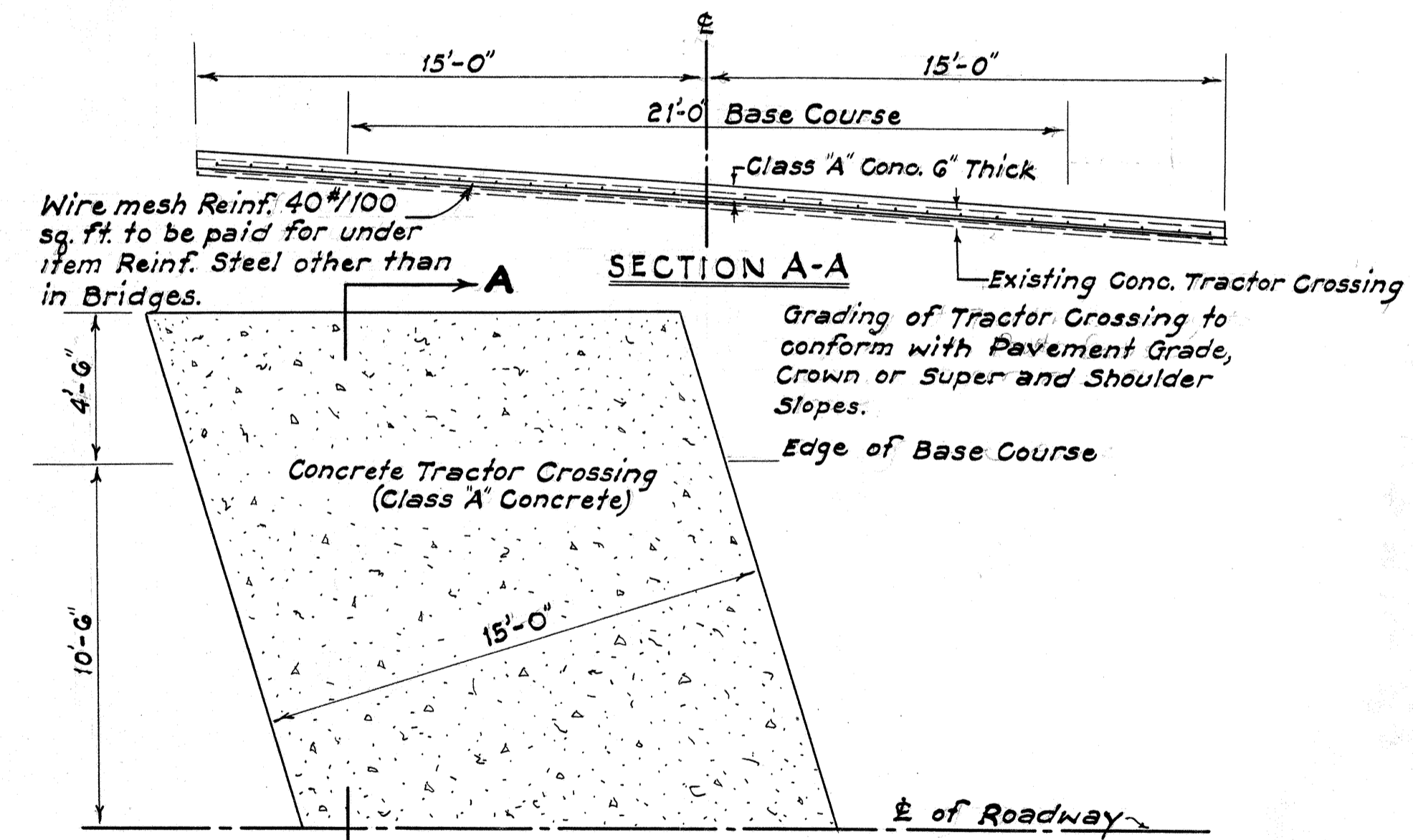
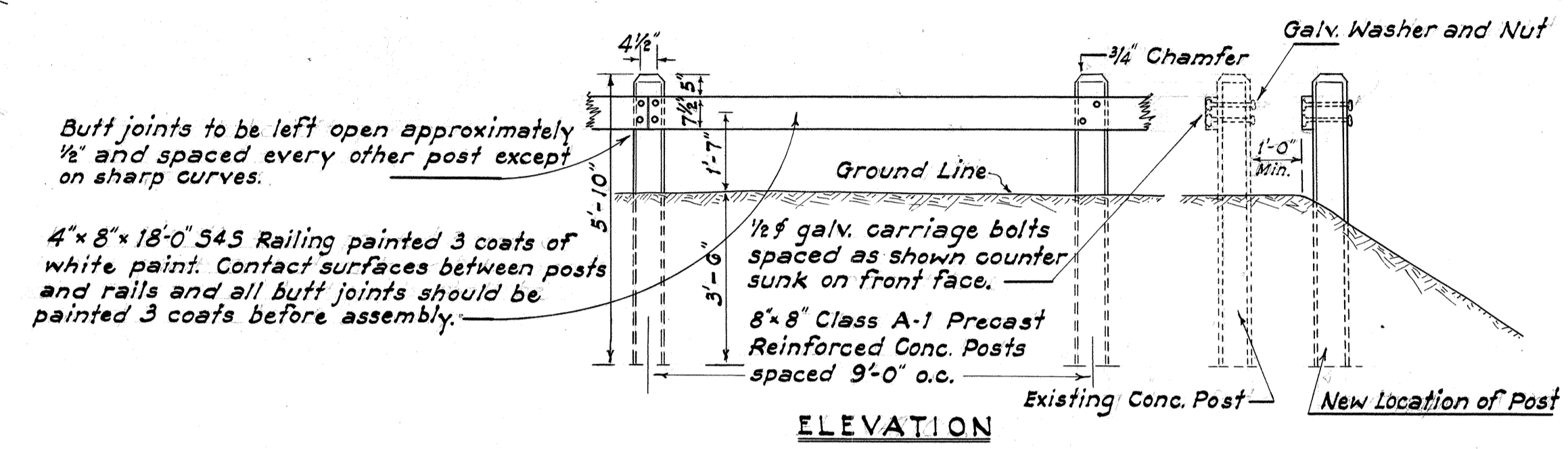
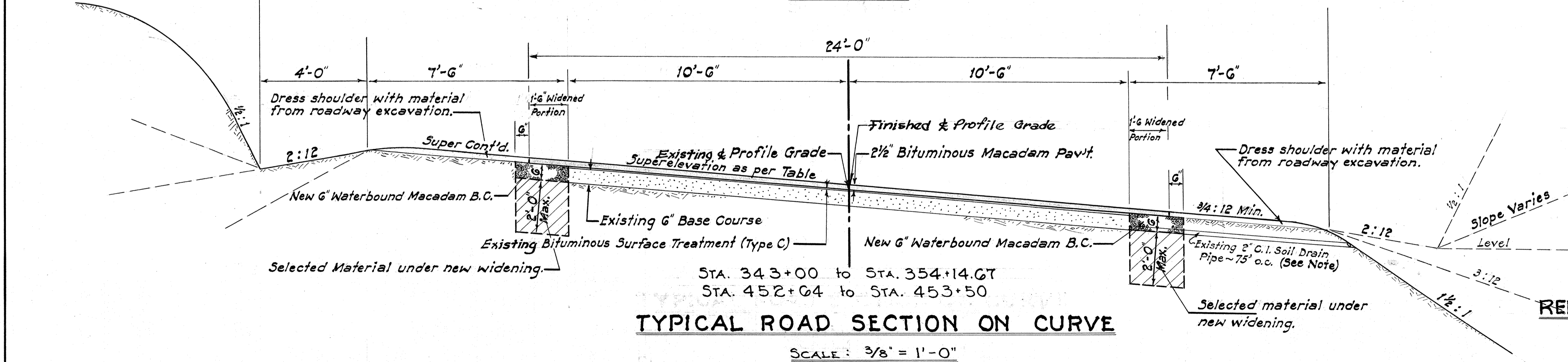
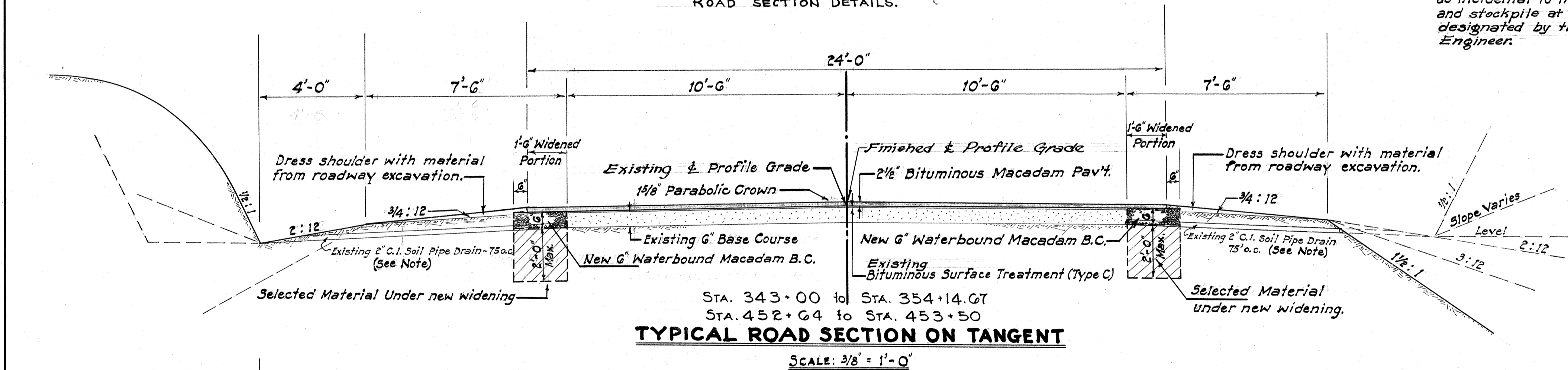
**NOTE!**  
All existing pavement shall be spike-rolled after brooming off. Pavement and laying of the coarse rock to insure bonding and prevent creeping.

Edges of existing pavements shall be rebuilt, Pot holes filled, and New Waterbound Macadam Base Course completed before 2 1/2" Bituminous Macadam Pavement shall be laid.



**NOTE:** SEE SHEET 5495.10 FOR ADDITIONAL TYPICAL ROAD SECTION DETAILS.

**NOTE!** All 2" C.I. Soil Pipe Drains encountered to be removed as incidental to trench exc. and stockpile at location designated by the Engineer.



**NOTE:** RELOCATION OF MONUMENTS SHALL BE DONE BY OTHERS.

TERRITORIAL HIGHWAY DEPARTMENT  
TERRITORY OF HAWAII

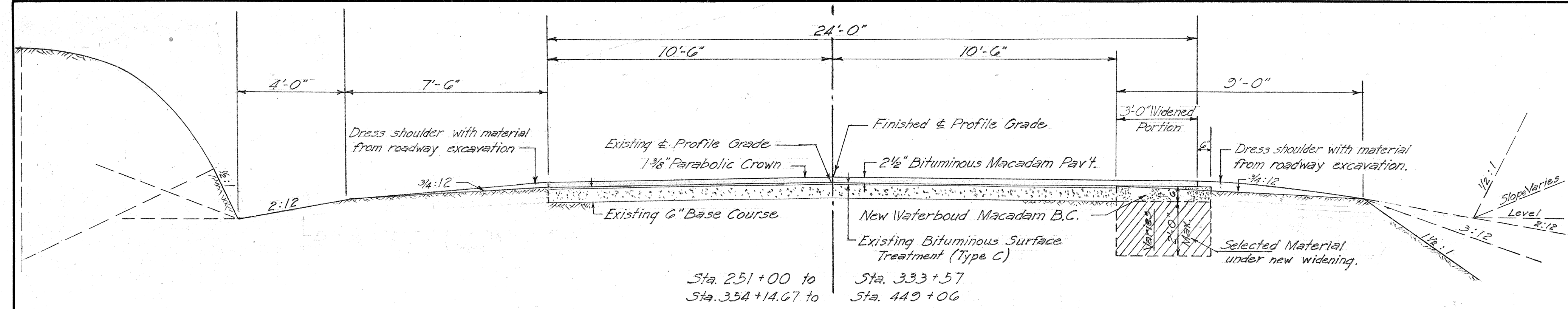
**TYPICAL ROAD SECTION**  
MAHUKONA-NIULII ROAD  
FEDERAL AID SECONDARY PROJECT No. 5 203(2)

Scale: As Noted

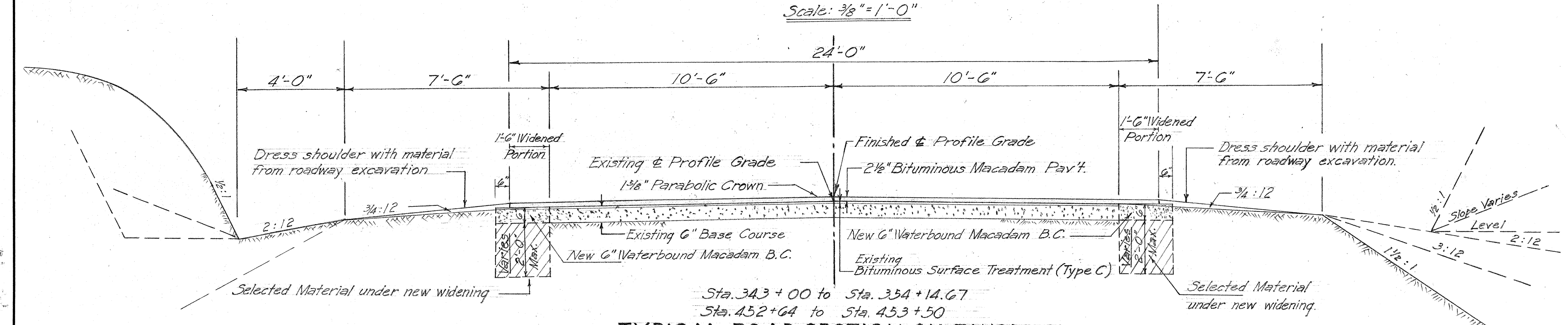
SHEET No. 2 OF 10 SHEETS

June 1950

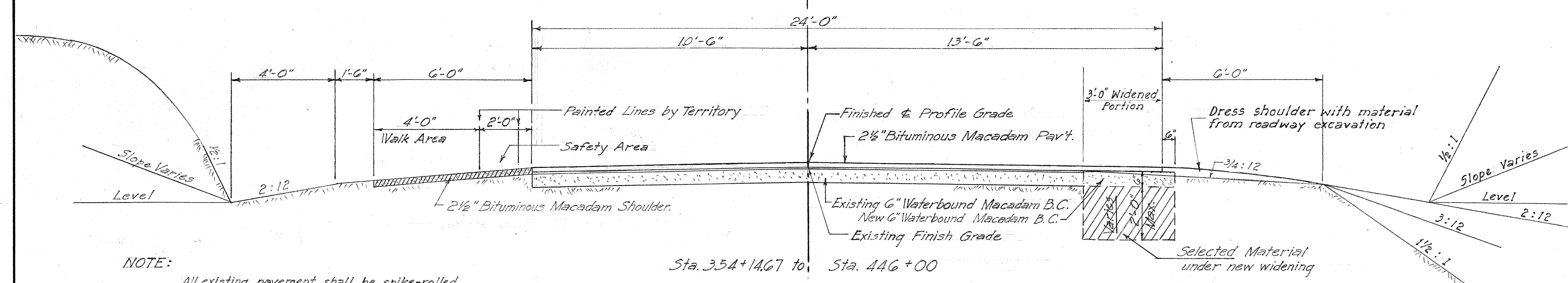
DATE	DESIGNED BY	CHECKED BY
PLAN	DRAWN BY	NOTED BY
NOTE BOOK	QUANTITIES CHECKED BY	
No.		



**TYPICAL ROAD SECTION ON TANGENT**  
Scale: 3/8" = 1'-0"

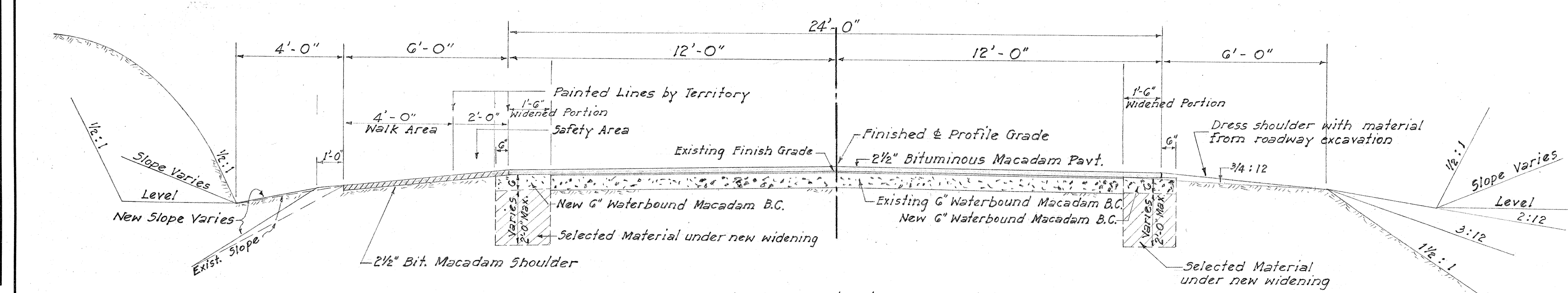


**TYPICAL ROAD SECTION ON TANGENT**  
Scale: 3/8" = 1'-0"



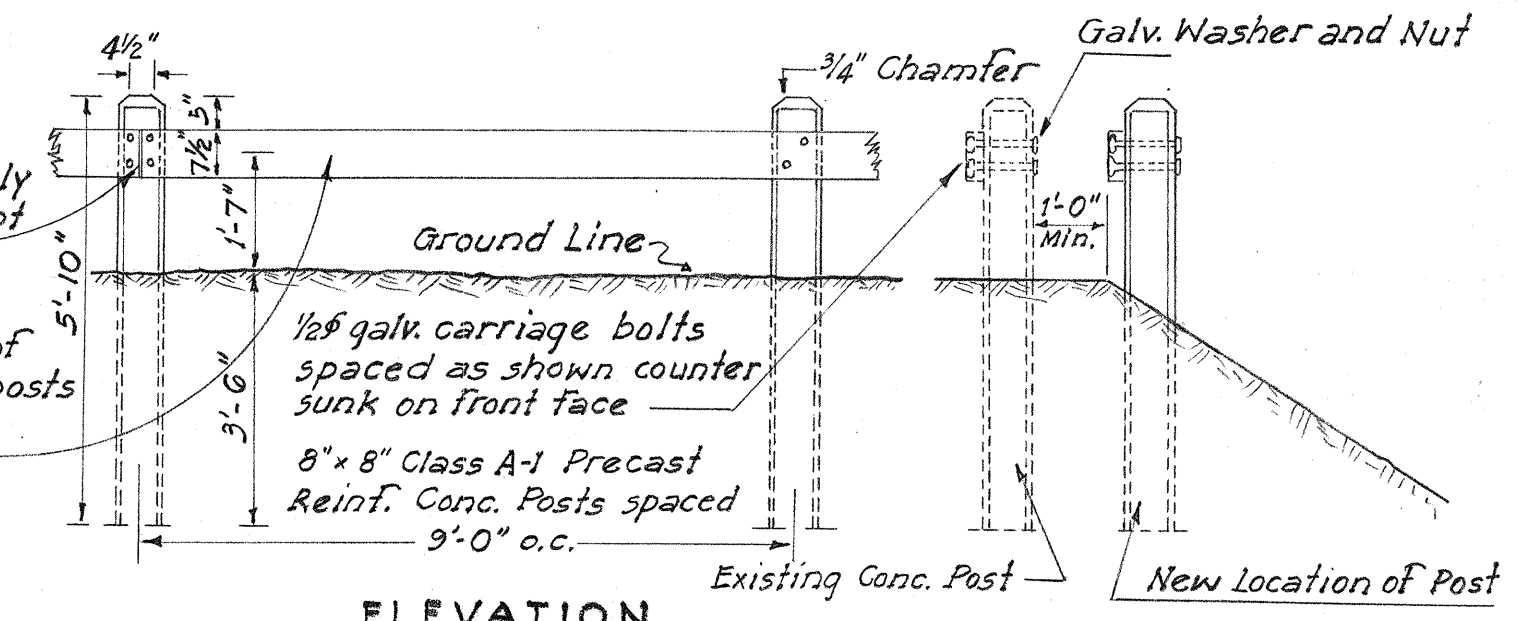
**TYPICAL ROAD SECTION ON TANGENT**  
Scale: 3/8" = 1'-0"

**NOTE:**  
All existing pavement shall be spike-rolled after brooming off pavement and laying of the course rock to insure bonding and prevent creeping.  
  
Edges of existing pavements shall be rebuilt, Pot holes filled, and New Waterbound Macadam Base Course completed before 2 1/2 inch Bituminous Macadam Pavement shall be laid.

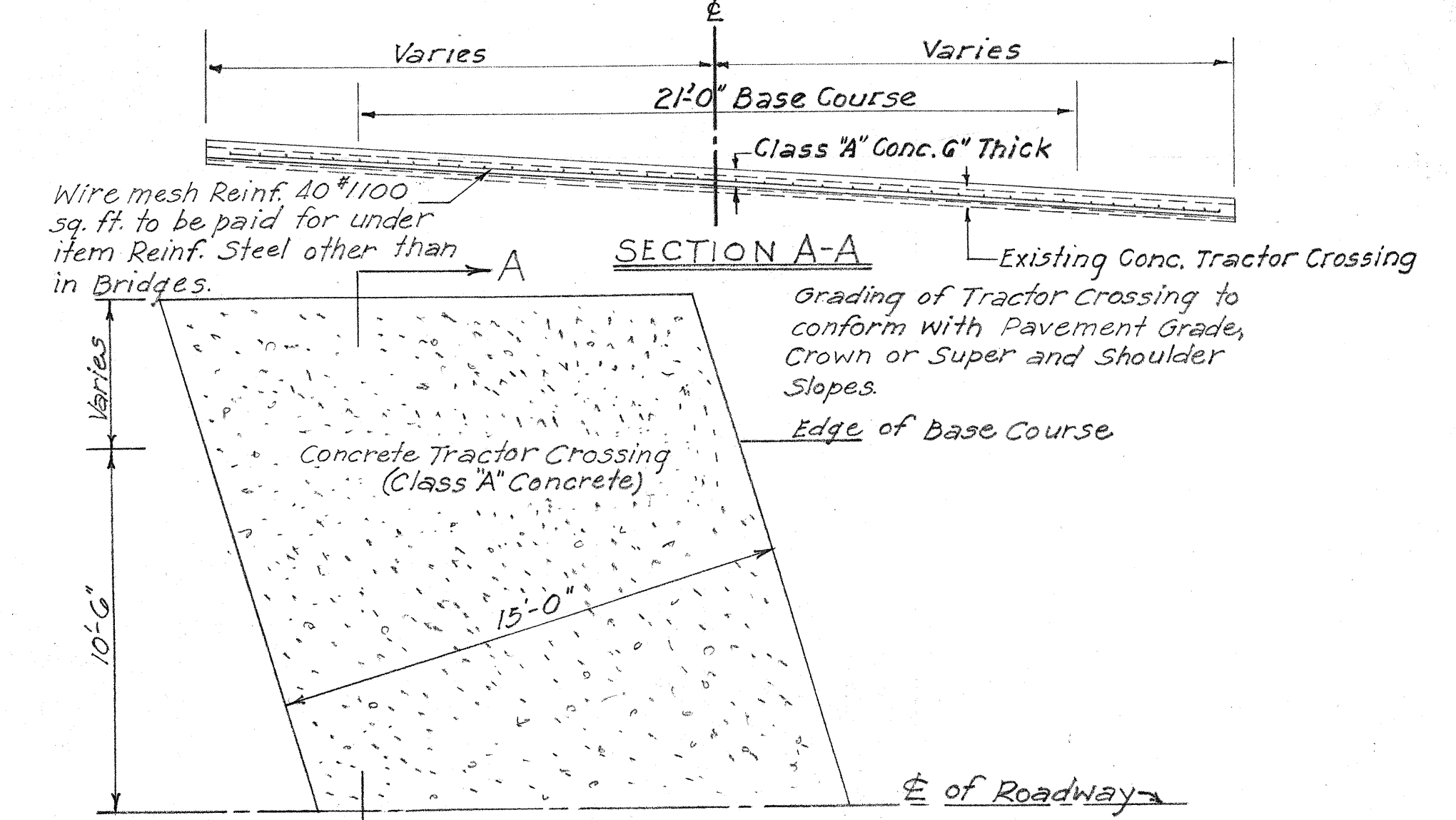


**TYPICAL ROAD SECTION ON TANGENT**  
Scale: 3/8" = 1'-0"

Butt joints to be left open approximately 1/2" and spaced every other post except on sharp curves.  
  
4" x 8" x 18'-0" 545 Railing painted 3 coats of white paint. Contact surfaces between posts and rails and all butt joints should be painted 3 coats before assembly.

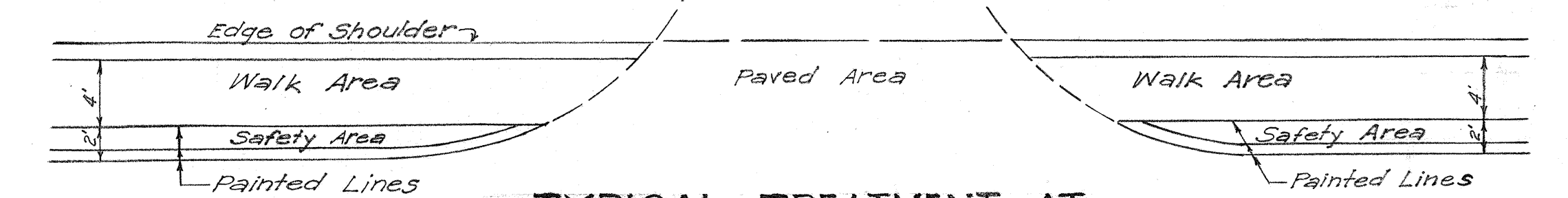


**REINSTALLING EXISTING STANDARD WOOD GUARD RAIL AND STANDARD WOOD GUARD RAIL DETAILS**  
Scale: 3/8" = 1'-0"

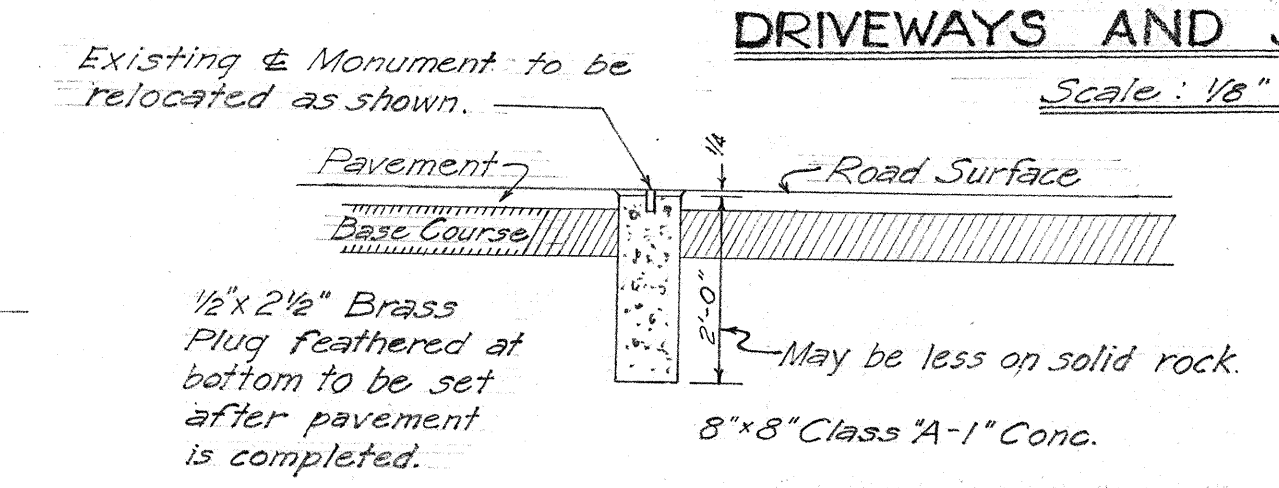


**TYPICAL DETAIL OF CONC. TRACTOR CROSSING**  
Scale: 1/4" = 1'-0"

**NOTE:** Omit paved shoulders at driveways and side road intersections.



**TYPICAL TREATMENT AT DRIVEWAYS AND SIDE ROADS**  
Scale: 1/8" = 1'-0"



**RELOCATED CENTERLINE MONUMENT**  
Scale: 1/2" = 1'-0"  
Note: Relocation of monuments shall be done by others.

**TERRITORIAL HIGHWAY DEPARTMENT**  
TERRITORY OF HAWAII

**TYPICAL ROAD SECTION**  
MAHUKONA-NIULII ROAD  
FEDERAL AID SECONDARY PROJECT No. S 203(2)

Scale: As Noted Oct. 1951

DATE  
DESIGNED BY  
DRAWN BY  
CHECKED BY  
NOTE BOOK  
NO.