

INDEX OF SHEETS

SHEET NO. 1	TITLE
SHEET NO. 2	TYPICAL CROSS SECTIONS
SHEET NO. 2	ESTIMATE OF QUANTITIES
SHEET NO. —	MISCELLANEOUS QUANTITIES
SHEET NO. —	RIGHT OF WAY PLAT
SHEET NO. 3-4	PLAN AND PROFILE STA. 0+00 TO STA. 54+68
SHEET NO. 5	STANDARD DETAILS
SHEET NO. —	DRAINAGE STRUCTURES
SHEET NO. —	CROSS SECTIONS



STATE OF WISCONSIN
STATE HIGHWAY COMMISSION OF WISCONSIN

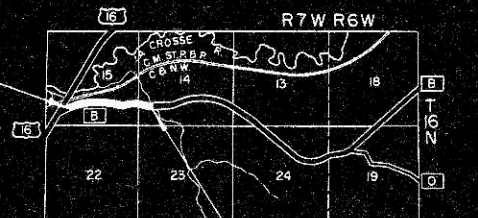
PLAN AND PROFILE OF PROPOSED
U.S.H. 16—C.T.H. "O" ROAD
C.T.H. "B"
LA CROSSE COUNTY
PROJECT S 0123(17)

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		S.P.D. DESIGN DIVISION	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
32.6	123.0		11.17	4 WIS.	1	5

PLAN 1 IN. = 100 FT.
PROFILE HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.
CROSS SECTIONS HOR. 1 IN. = 5 FT. VERT. 1 IN. = 5 FT.

BEGINNING OF PROJECT S 0123(17)
STA. 0+00

970' NORTH & 840' EAST OF THE S.W. CORNER
OF SEC. 15, T16N, R7W



END OF PROJECT S 0123(17)
STA. 54+68

1290' NORTH & 1060' EAST OF THE S.W. CORNER
OF SEC. 14, T16N, R7W

CONVENTIONAL SIGNS

STATE LINE	-----	CULVERTS IN PLACE	-----
COUNTY LINE	-----	CULVERTS REQUIRED	-----
TOWNSHIP OR RANGE LINE	-----	DROP INLET	-----
SECTION LINE	-----	POWER POLE	-----
NEW RIGHT OF WAY LINE	-----	TELEPHONE OR TELEGRAPH POLE	-----
PRESENT RIGHT OF WAY LINE	-----	RIGHT OF WAY MARKERS	-----
WIRE FENCE { WOVEN	-----	REFERENCE STAKE FOR HUBS ONLY	-----
{ BARBED	-----	MARSH	-----
LOT LINE	-----	HEDGE	-----
CORPORATE OR CITY LIMITS	-----	TREES	-----
PROPERTY LINE	----- PL + 32.6	GROUND ELEVATION	DATUM LINE 73.0
TRAVELED WAY OR P.E.	-----	GRADE ELEVATION	DATUM LINE 75.16
RAILROADS	-----		
BASE OR SURVEY LINE	----- 30		

LAYOUT

SCALE 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 1.036 MI.

APPROVED FOR LA CROSSE COUNTY

DATE 3-7-62 COUNTY HIGHWAY COMMISSIONER

STATE HIGHWAY
COMMISSION OF WISCONSIN
MADISON, WIS.

SURVEYOR LA CROSSE CO. NOTE BOOK 186
DIVISION COMPUTER A.E.J. M.O. CHECKER D.E.C.
DISTRICT CHECKER R.C.J. CORRECT

CORRECT:
DATE 3-8-62 J.P. Pelt ENGINEER

RECOMMENDED FOR APPROVAL:
DATE 3-20-62 J.P. Pelt ENGINEER

APPROVED:
DATE 3/20/62 J.P. Pelt STATE HIGHWAY ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED: DATE

DATE

DIVISION ENGINEER

S 0123(17)

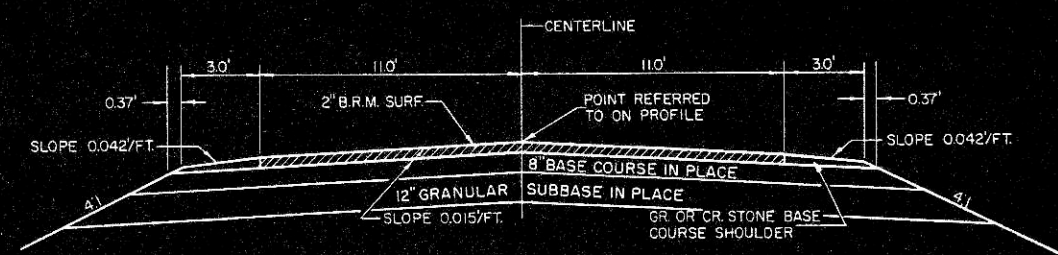
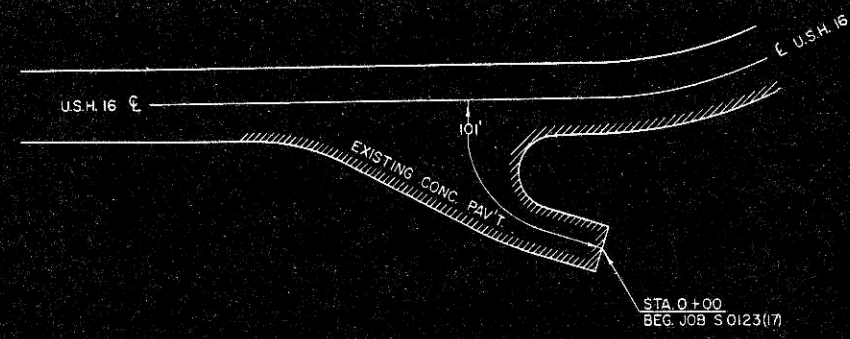
ESTIMATE OF QUANTITIES

CONTRACT NO. 192

PROJECT	SHEET NUMBER	TOTAL SHEETS
S 0123(17)	2	5

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF WISCONSIN — EDITION OF 1957, APPROVED AUGUST 9, 1957 AND SPECIAL PROVISIONS AS ATTACHED TO PROPOSALS

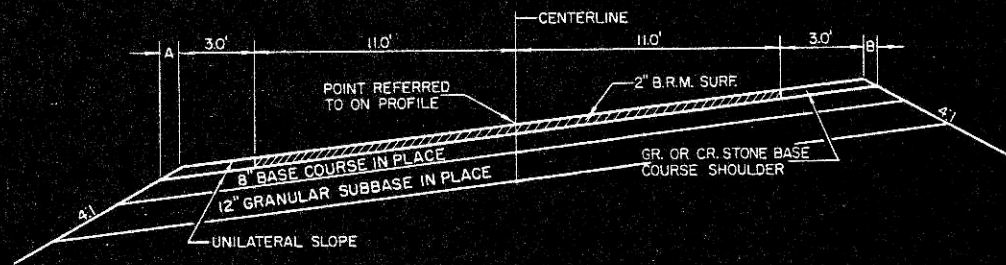
CONTRACT	STATION TO STATION	NET LENGTH OF CENTER LINE	CLEARING	GRUBBING	EXCAVATION			SAND GRAVEL FILL	FIN. ISHING ROAD-WAY	OBLIT. ERATING OLD ROAD	GRAVEL OR CRUSHED STONE BASE		CULVERT PIPE					GUARD FENCE			MARK-ER POSTS FOR R/W	PREP. OF ROAD BED FOR BIT. SURF.	BIT. ROAD MIX SURF.	AGG. FOR BIT. ROAD MIX SURF.	BIT. MAT. FOR SURF. COURSE	STEEL PLATE BEAM GUARD	TOPSOIL		FER-TIL-IZER	SEEDING
					210 -	210 -	210 -				2110-1	2114-1	2116-1	2203-1	23	2512-1	2523-	2523-	2523-5	2523-6							2310-1	2313-1		
UNIT	LIN. FT.	C. Y.	C. Y.	C. Y.	C. Y.	STA.	STA.	C. Y.	C. Y.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	C. Y.	LIN. FT.	EACH	EACH	STA.	SQ. YD.	C. Y.	GALS.	LIN. FT.	SQ. YD.	SQ. YD.	CWT.	SQ. YD.			
2	0+00 - 54+68	5468																												
1	0+00 - 54+68																													



TYPICAL FINISHED SECTION

STEEL PLATE BEAM GUARD

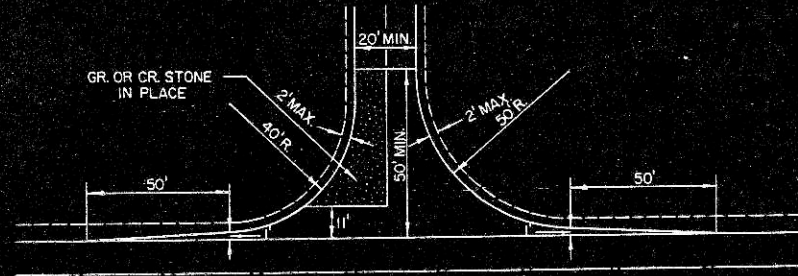
STA. - STA.	SIDE	LIN. FT.
54 + 25.5 - 54 + 66	RT	40.5
54 + 24.5 - 54 + 65	LT	40.5
55 + 69 - 56 + 09.5	RT	40.5
55 + 69 - 56 + 09.5	LT	40.5



TYPICAL SUPERELEVATED SECTION

VARIABLE DISTANCES FOR HORIZ. CURVES

S.E.	TRANS	A	B
.02	150	0.73	0.61
.05	150	0.83	0.55
.08	150	0.98	0.50



SURFACING SIDE ROAD DETAIL

NOTE: SHEETS 3&4 INCLUDED TO SHOW PROFILE & ALIGNMENT ONLY OTHER INFORMATION IS NOT PERTINENT TO THIS CONTRACT.

NOTE: WHEN THE QUANTITY OF THE ITEMS OF SUBBASE, BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL DIRECTED BY THE ENGINEER

PROJECT	SHEET NUMBER	TOTAL SHEETS
SO 123(17)	3	5

26+00
PART CONCRETE BOX CULVT.
PART MASONRY ARCH CULVT &
42" x 44" C.M.C. EXT. GOOD CONDITION.
CONCRETE PART IS 44' SQUARE
DRAINAGE AREA 211 ACRES

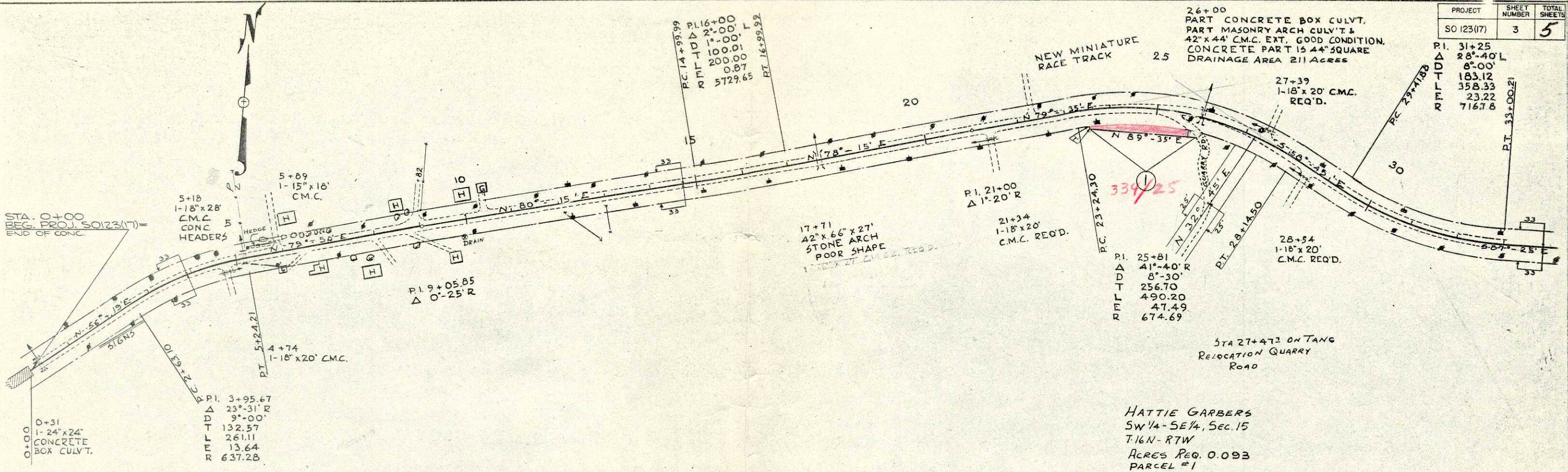
P.I. 31+25
Δ 28°-40' L
8°-00'
183.12
358.33
23.22
7167.8

P.I. 16+00
Δ 2°-00' L
100.01
200.00
0.87
5729.65

P.I. 25+81
Δ 41°-40' R
8°-30'
256.70
490.20
47.49
674.69

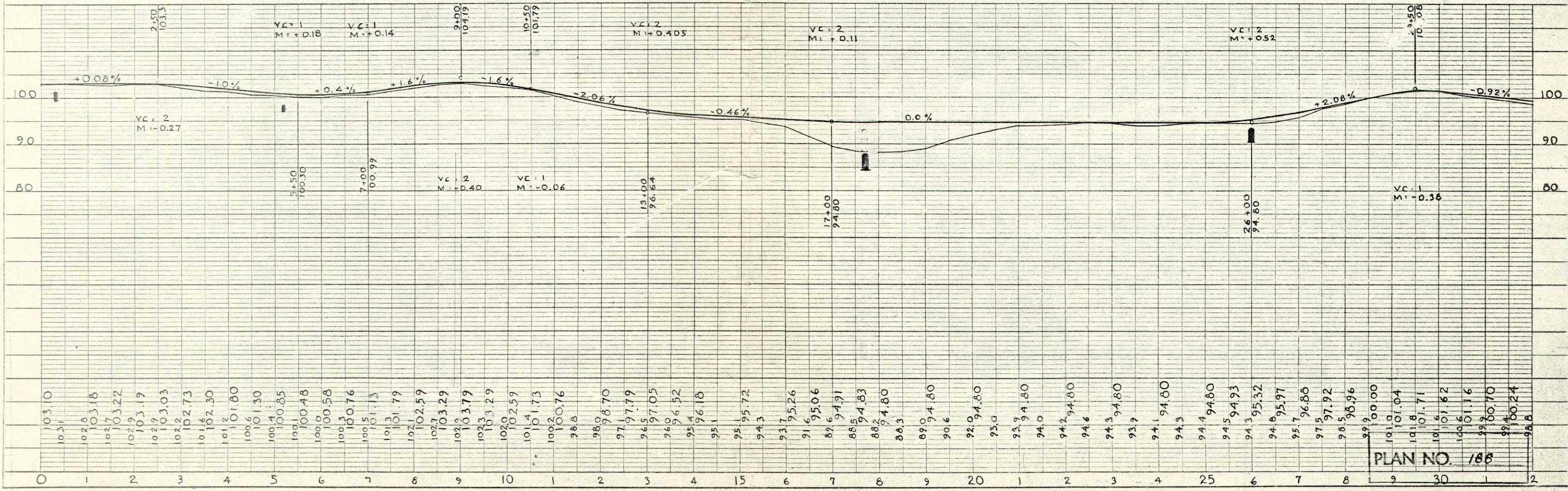
P.I. 9+05.85
Δ 0°-25' R

P.I. 3+95.67
Δ 23°-31' R
9°-00'
132.57
261.11
13.64
637.28



PLAN
SURVEYED
NOTED
BY
J.M.D.C.
NO. 186

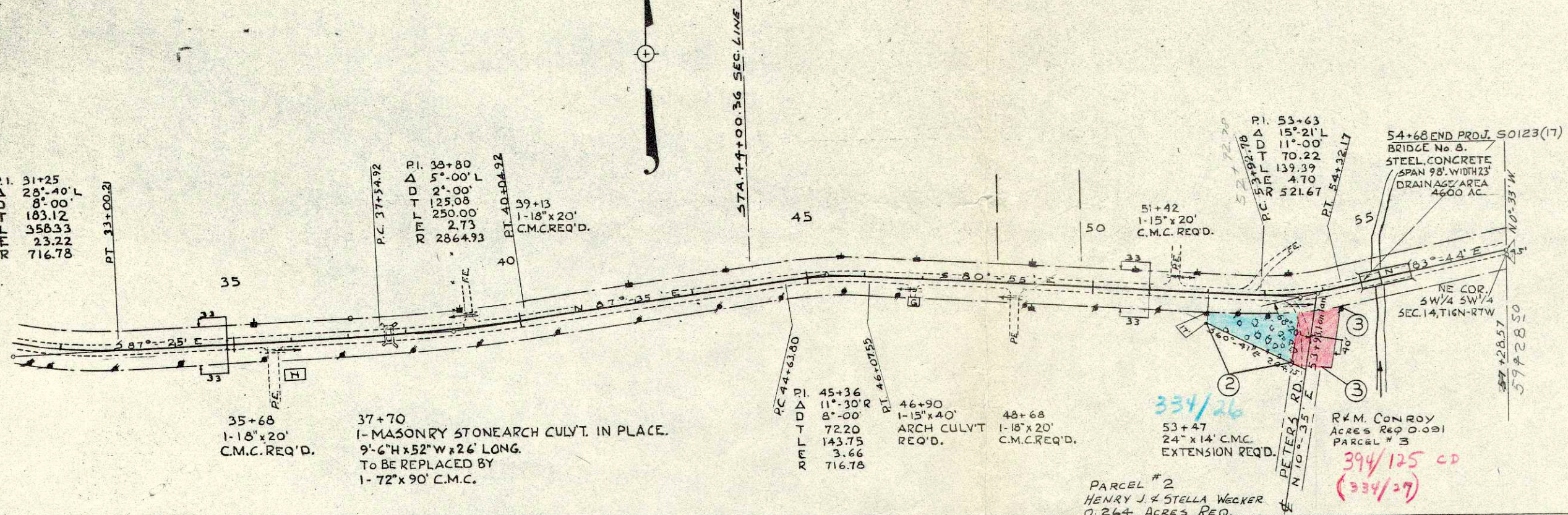
PROFILE
SURVEYED
NOTED
BY
J.M.D.C.
NO. 188



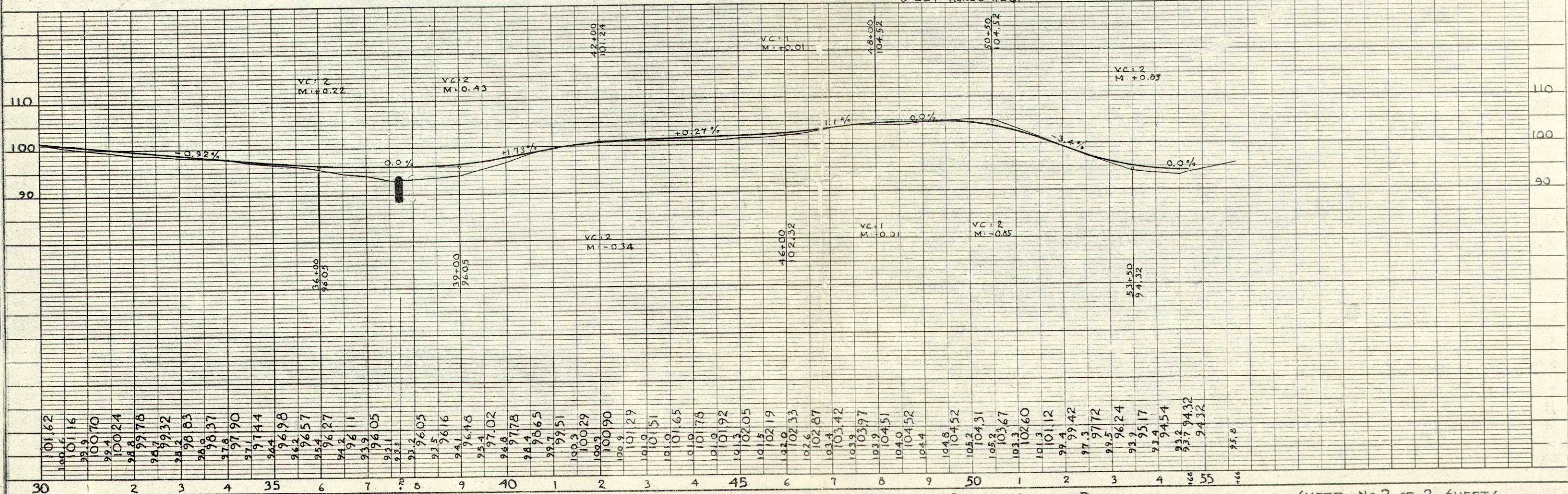
PLAN NO. 188

NE 1/4-SE 1/4
SEC. 15, T16N-R7W

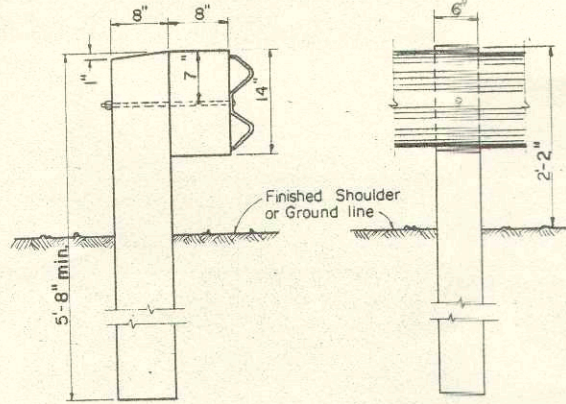
NW 1/4-SW 1/4
SEC. 14, T16N-R7W



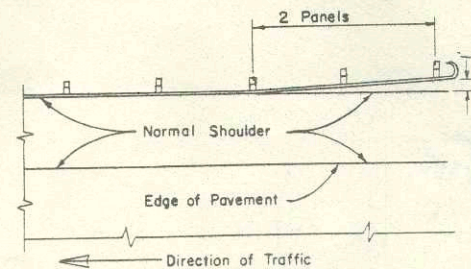
5393
92850
54317
196.33
5432.97
5292.78
139.39



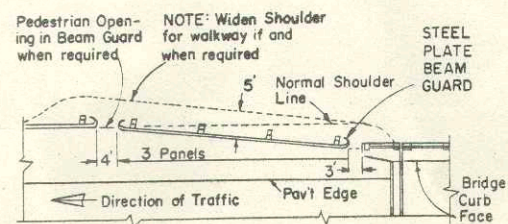
PLANNED
 ALIGNED CHECKED
 BY: UP WAY CHECKED
 NO. 188
 D.C.
 DRAWING
 CHECKED
 BY: W. H. HEDER
 NO. 188
 STRUCTURE NOTING CHECKED.



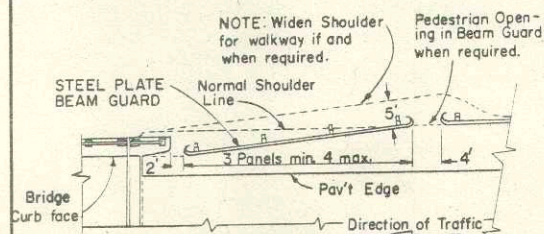
DETAIL OF POST & OFF-SET BLOCK



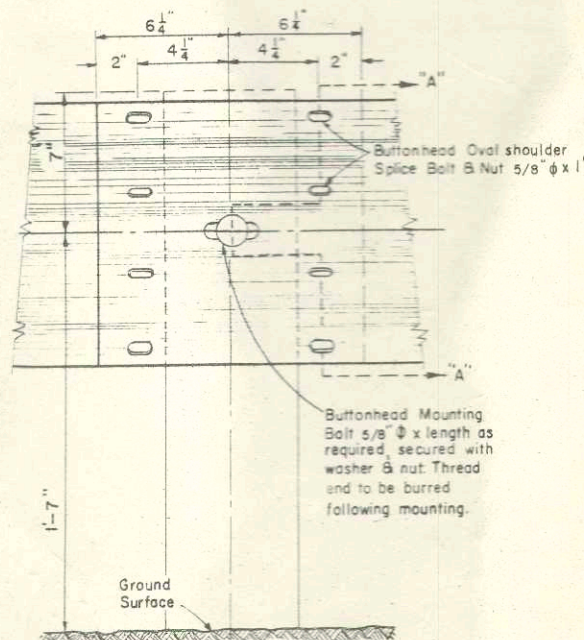
LOCATION DIAGRAM FOR STEEL PLATE BEAM GUARD INTERMEDIATE SECTIONS



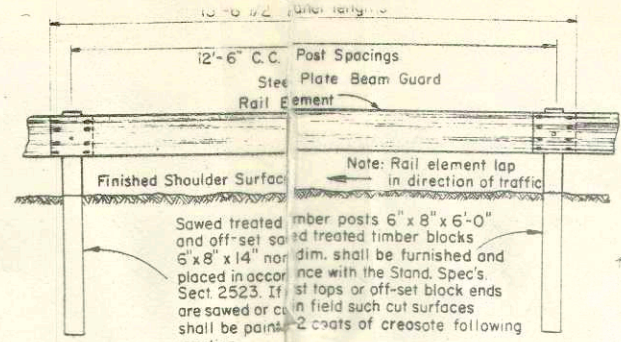
LOCATION DIAGRAM FOR STEEL PLATE BEAM GUARD AT BRIDGE EXITS



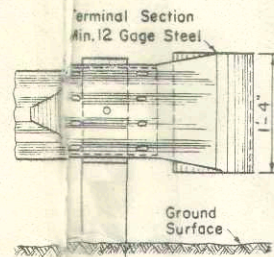
LOCATION DIAGRAM FOR STEEL PLATE BEAM GUARD AT BRIDGE APPROACHES



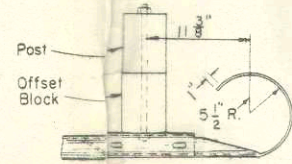
RAIL ELEMENT SPICING & POST MOUNTING DETAILS



STEEL PLATE BEAM GUARD OR STEEL PLATE BEAM (MEDIAN) GUARD

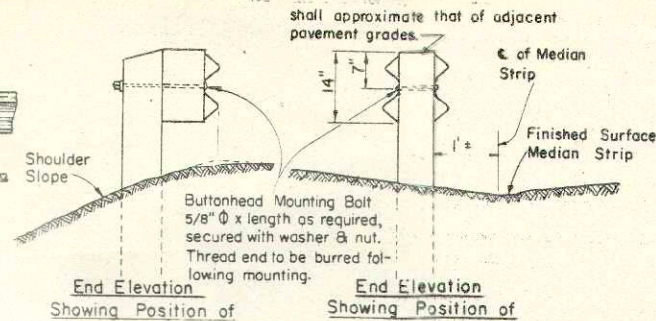


FRONT (Traffic Side) VIEW

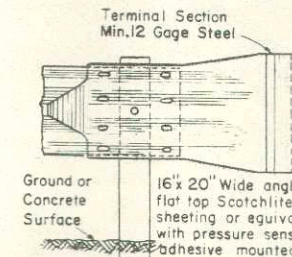


PLAN VIEW

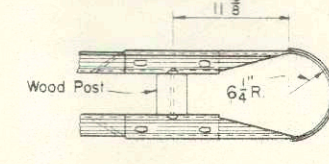
TERMINAL SECTION DETAILS FOR STEEL PLATE BEAM GUARD



STEEL PLATE BEAM (MEDIAN) GUARD

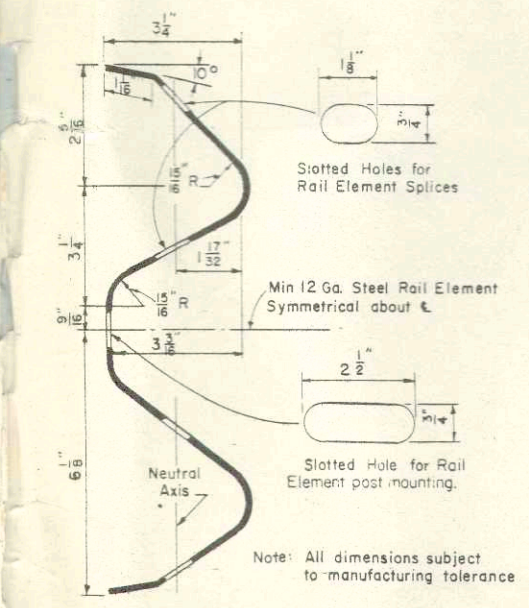


FRONT VIEW

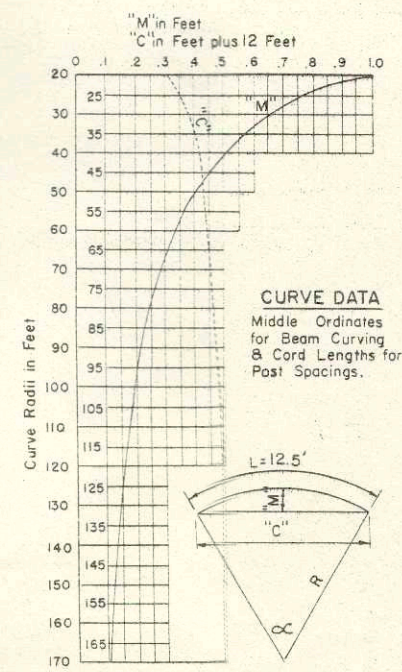


PLAN VIEW

TERMINAL SECTION DETAILS FOR STEEL PLATE BEAM (MEDIAN) GUARD



SECTION "AA" RAIL ELEMENT SECTION (Min 12 GAGE STEEL)



GENERAL NOTES

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.
The Steel Plate Beam Guard or (Median) Guard shall consist of steel plate made of open hearth or electric furnace steel. Plates shall be blanked to proper shape, fabricated and ready for assembly when received in the field. The plates shall be true to plan dimensions and of uniform section. Warped or deformed plates will be rejected. The edges of the plates shall be rolled or rounded so that they present no sharp edges. All connections and splices shall be formed with flat round headed bolts, or similar detail so that no appreciable projection will be presented on the road side of the guard. The rail element shall be spliced by lapping in the direction of traffic or by butt joint with splice plate. Plate ends in lap splices or plate ends and splice plate in butt splices shall make contact throughout the entire area of the splice.

TESTS

The elongation of a 2 inch specimen of the steel plate used in the rail element shall be not less than 12 percent tested in tension. The minimum tensile strength of the rail element shall, when tested in conjunction with splices and end connections, be 80,000 lbs. The rail element when loaded as a simple beam, freely supported at each end on 12'-0" centers shall support a concentrated load at span center through a flat surface 3 inches long, in accord with the following -

BEAM ELEMENT

Load	Traffic Face up		Traffic Face Down	
	Maximum Deflection	Load	Maximum Deflection	Load
1500 lb.	2.0 in.	1200 lb.	2.0 in.	
2000 lb.	3.0 in.	1600 lb.	3.0 in.	

GALVANIZED

The steel plate beam element and terminal sections shall be furnished galvanized. The spelter coating of the base metal sheets shall be in accordance with A.S.H.C. Designation: M 36. The beam element may be galvanized before or after fabrication. Bolts, nuts, and washers shall be furnished galvanized in accordance with A.S.T.M. Designation: A153, Class C.

CIRCULAR STEEL PLATE ELEMENT

Steel plate beam elements for beam guard or (median) guard for radii of 20 ft. to 150 ft. shall be shop-curved. Steel plate beam elements shall be bent to true circular curvature, void of kinks. Kinks shall be cause for rejection. Steel plate beam elements shall have a minimum bending radius of 20 feet.

MEASUREMENT & PAYMENT

The items of Steel Plate Beam Guard and Steel Plate Beam (Median) Guard shall be measured and paid for at the contract unit price per linear foot, measured in place by length in linear feet from end to end - out to out of terminal sections, which price shall be full compensation for furnishing and placing all materials and performing all work to completion in accordance with the Stand. Spec's. Sect. 2523, the applicable Plans and Special Provisions.

BID ITEMS

- No. 2523-3 Steel Plate Beam Guard..... Lin. Ft.
- No. 2523-4 Steel Plate Beam (Median) Guard..... Lin. Ft.

STEEL PLATE BEAM GUARD & STEEL PLATE BEAM (MEDIAN) GUARD

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:
DATE 4/24/61
APPROVED: J. J. Pelt ENGINEER OF DESIGN
DATE 4/24/61
APPROVED: E. C. Rozell STATE HIGHWAY ENGINEER