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FED. ROAD DIST. NO.	STATE	F.A.S. PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	70-A(1)	1	16

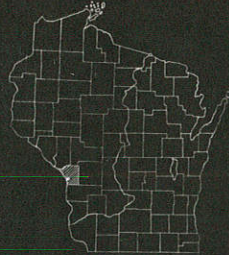
DIVISION JOB NO. 5677

STATE OF WISCONSIN
STATE HIGHWAY COMMISSION OF WISCONSIN

PLAN AND PROFILE OF PROPOSED
NORTH LA CROSSE — U.S.H. 16 ROAD

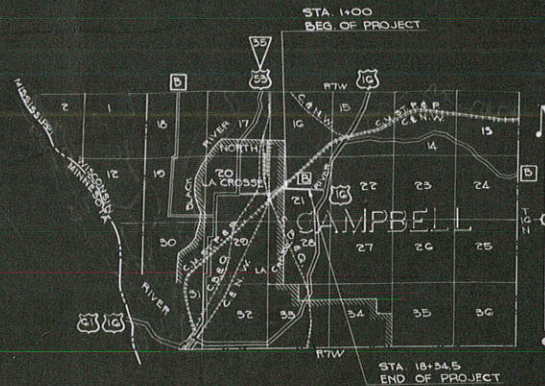
LA CROSSE COUNTY

FEDERAL AID SECONDARY PROJECT F.A.S. 70-A(1)



BEGINNING AT A POINT APPROXIMATELY 1660 FT. EAST OF THE W 1/4 COR. SEC. 21, T16N, R7W, THENCE EAST 1734.5 FT. TO LACROSSE RIVER BRIDGE

SCALES
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.



CONVENTIONAL SIGNS

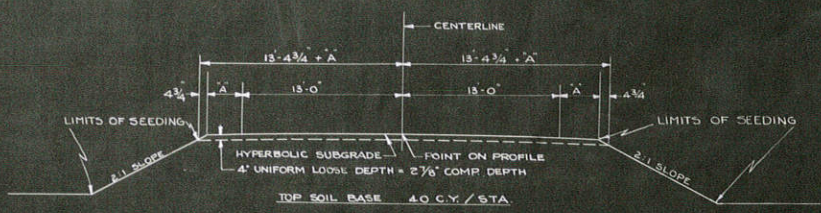
STATE LINE	---	CULVERTS IN PLACE	—
COUNTY LINE	---	CULVERTS REQUIRED	—
TOWNSHIP OR RANGE LINE	---	DROP INLET	—
SECTION LINE	---	POWER POLE	—
NEW RIGHT OF WAY LINE	---	TELEPHONE OR TELEGRAPH POLE	—
PRESENT RIGHT OF WAY LINE	---	RIGHT OF WAY MARKERS	—
WIRE FENCE UNWORN	---	REFERENCE STAKE FOR HUBS ONLY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

LAYOUT

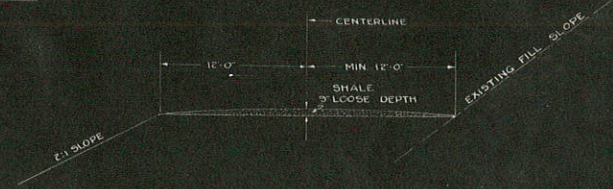


STATE HIGHWAY COMMISSION OF WISCONSIN MADISON, WIS.		U.S. DEPARTMENT OF AGRICULTURE BUREAU OF PUBLIC ROADS	
Surveyor V.A.S.	Rate Book 1553	RECOMMENDED FOR APPROVAL	
Div. Computer H.A.B.	M. O. Clunker W.P.M.	DISTRICT ENGINEER	
Div. Checker R.C.J.	Correct 3/9/39	CHIEF ENGINEER	
CORRECT		APPROVED	
DATE 3/6 1939	T. M. Reynolds	DIRECTOR	
RECOMMENDED FOR APPROVAL	DATE 3/11 1939	DATE	
DESIGN ENGINEER	STATE HIGHWAY ENGINEER		
APPROVED	DATE 3/11 1939		
CHECKED IN FIELD BY: C. H. C.		ASS'T. DIV. ENG.	
		F.A.S. 70A(1)	

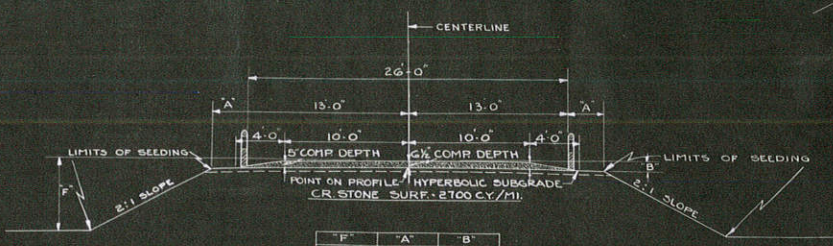
Mar. 25, 1939
Approved: *[Signature]*
Far Co. C.H.C.



TYPICAL GRADING SECTION PLUS TOP SOIL BASE

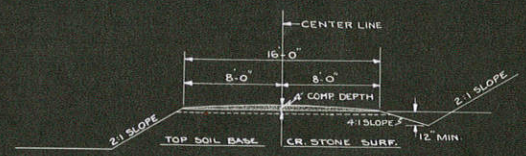


TYPICAL SECTION OF TEMPORARY CROSSING



GUARD FENCE SECTION FOR GRAVEL OR CRUSHED STONE SURFACING

"F"	"A"	"B"
UNDER 5'	2'-3"	3%
5 TO 10'	3'-6"	3%
OVER 10'	4'-6"	5%



TYPICAL SECTION FOR PRIVATE ENTRANCE

APPROVED	APPLICABLE	DRAWINGS
3 WIRE CABLE GUARD FENCE		SD - 13.2
MARKER POSTS		SD - 12.2
CONSTRUCTION BARRICADE		SD - 16.1

TYPICAL CROSS SECTION FOR
FOR

26' ROADBED

ESTIMATE OF QUANTITIES (GRADING, SURFACING & BR. NO. 284) CONTRACT NO. 1

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF WISCONSIN - EDITION OF 1935.
 APPROVED NOV. 1, 1935, SUPPLEMENTAL SPECIFICATIONS AS SUBMITTED JULY 29, 1937 AND SPECIAL PROVISIONS APPROVED APRIL 19, 1937

FED. ROAD DIST. NO.	STATE	FAS. PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	70-A-0	3	16
DIVISION			JOB NO. 5677	

MILE NO.	STATION TO STATION	NET LENGTH OF CENTER LINE	EARTH WORK											SURFACE COURSES												
			CLEARING		GRUBBING		EXCAVATION			SAND GRAVEL FILL	FINISHING ROADWAY	REMOVING OLD BRIDGE	BASE	CONCRETE PAVEMENT	CONCRETE HEADERS	LIP CURB			CONC. SURFACE DRAIN	CONC. PAVT. REINF.	STRUCTURAL STEEL CONC. PAVT.	GRAVEL OR CRUSHED STONE	GRAVEL	GR'D STONE		
ITEM NO.	UNIT	LINE FT.	202-1	202-2	203-1	203-2	206-1	206-2	206-3	209-1	210-1	214-1	204-10	TOP SOIL	401-1	401-6	401-7	401-8	401-9	401-10	401-11	401-13	406-1	406-2	406-3	
			ACRE	INDIA	ACRE	INDIA	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	STA.	(L.S.)	C.Y.	SQ. YD.	SQ. YD.	2"	3"	4"	C.Y.	SQ. YD.	LBS.	C.Y.	C.Y.	C.Y.	
1	1+00-18+54.5	1754.5					1210			10275		16.1	1	550												
TOTAL		1754.5					1210			10275		16.1	1	550												855

BRIDGES (OVER 20' SPAN)														CULVERTS (20' SPAN & UNDER)																								
MILE NO.	COM. EXCAVATION	EXCAVATION	CONC. REIN. MAS-ONRY	BAR STEEL REINF.	STRUC. TURAL STEEL	CAS. T. STEEL	SHEET LEAD	ZINC PLATES	UNTR'D TIMBER DELIV'D	UNTR'D TIMBER DRIVEN	TR'T'D TIMBER DELIV'D	TR'T'D TIMBER DRIVEN	FLOOR DRAINS	WATER PROOF-ING	RIP RAP	TEMP. ORARY CROSSING STA. 5+52	UNTR'D TIMBER AND PILING	TR'T'D LUMBER	COM. EXCAVATION	EXCAVATION	CONC. REIN. MAS-ONRY	BAR STEEL REINF.	STRUC. TURAL STEEL	CAS. T. STEEL	SHEET LEAD	ZINC PLATES	UNTR'D TIMBER DELIV'D	UNTR'D TIMBER DRIVEN	TR'T'D TIMBER DELIV'D	TR'T'D TIMBER DRIVEN	FLOOR DRAINS	WATER PROOF-ING	RIP RAP	UNTR'D TIMBER AND PILING	TR'T'D LUMBER			
	C.Y.	C.Y.	C.Y.	LB.	LB.	LB.	LB.	LB.	LB.	LB.	LB.	LB.	LB.	LB.	SQ. FT.	C.Y.	L.S.	LB.	M.B.M.	C.Y.	C.Y.	C.Y.	LB.	LB.	LB.	LB.	LB.	LB.	LB.	LB.	LB.	LB.	LB.	LB.	LB.	LB.	LB.	
1	45	75.1	4270	67820				100			1840	1250	10		35	1	120	472																				
TOT.		45	75.1	4270	67820			100			1840	1250	10		35	1	120	472																				

CULVERT PIPE														INCIDENTAL CONSTRUCTION											
MILE NO.	RIP RAP	PIPE UNDER DRAIN	STORM SEWER		STORM SEWER		CATCH BASINS		MANHOLES		INLETS		CONCRETE CURB	CONC. GUTTER	CONCRETE CURB & GUTTER	SIDEWALK	CABLE GUARD FENCE	AN. FOR GUARD FENCE	MARK. POSTS	SEED-ING	PROJECT MARKER POSTS				
			6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"				
			6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"				
1																									
TOT.																						2844	10	11	7500

DETAIL SUMMARY SHEET OF MISCELLANEOUS QUANTITIES (GRADING, DRAINING & SURFACING.)

FED. ROAD DIST. NO.	STATE	F.S.D. PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	WIS.	70A0	31	16
DIVISION JOB NO. 5677				

		TEMPORARY CROSSING				RIP RAP			GUARD FENCE					CONCRETE BOX CULVERTS							PIPE CULVERTS																	
MILE NO.	STATION TO STATION	MILE NO.	STATION TO STATION	SIDE R. OR L.	L.S.	MILE NO.	STATION TO STATION	SIDE R. OR L.	C.Y.	MILE NO.	STATION TO STATION	SIDE R. OR L.	MARKER POSTS	C/BLE LIN. FT.	ANCHORAGES	MILE NO.	STATION	CULVERT NO.	SHEET NUMBER	SPAN FT.	HEIGHT FT.	LENGTH FT.	EXCAVATION C.Y.	CONC. MASONRY C.Y.	BAR STEEL LBS.	WATER PROOFING SQ. FT.	WATER KEYS POSTS	MILE NO.	STATION	DIAMETER INCHES	LENGTH LIN. FT.	TYPE	C ROY.	P.E. & S.R. L.	RIP RAP	MARKERS		
		1	0+52	L	1		BRIDGE ABUTS		95	1	1406-5+38	RT	2	432	2																							
										1	1406-8+74	LT	1	768	2																							
										1	5+86-8+74	RT	1	288	2																							
										1	10+26-16+26	LT	1	600	2																							
										1	10+26-17+82	RT	1	756	2																							
										1	16+88-18+34.5	LT	5																									

ADD. CR. STONE SURF. COURSE

MILE	STATION	SIDE	C.Y.
1	5+62 PE.	RT.	15
1	16+63 PE.	LT.	15

ADD. TOP SOIL BASE

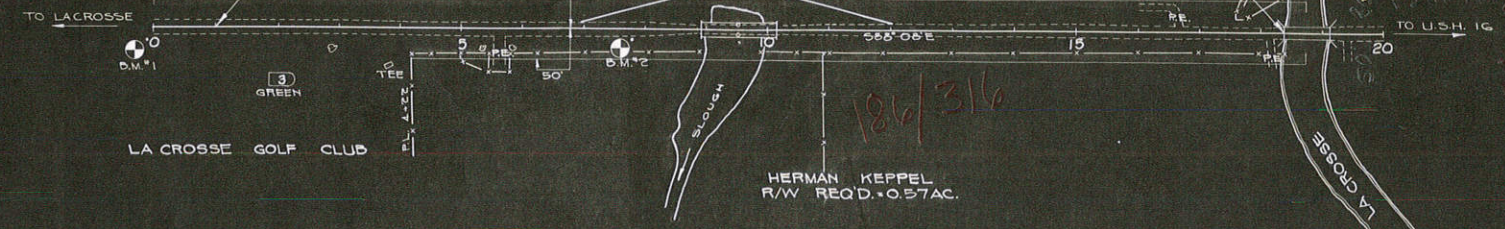
MILE	STATION	SIDE	C.Y.
1	5+62 PE.	RT.	7
1	16+63 PE.	LT.	7

STA. 1+00
BEGINNING OF PROJ. F.A.S. 70-A(1)

186/332

ARTHUR H. ERICKSON
R/W REQ'D. = 0.73 AC

← OF TEMPORARY CROSSING (NO STRUCTURE REQ'D)

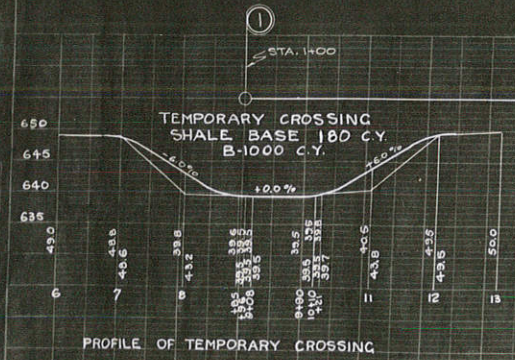


HERMAN KEPPEL
R/W REQ'D. = 0.37 AC

NO	STA	DESCRIPTION	ELEV.
1	0+00	TOP NAIL IN GR 23 RT	646.27
2	7+78	2 SPIKES GR 13 RT	649.95

NET LENGTH OF CENTERLINE STA. 1+00 TO STA. 18+345 = 1,745 LIN. FT.

C 1210 C.Y. (30 C.Y.)
F 5595 C.Y. @ 20% SHG.
B 10275 C.Y.



PROFILE OF TEMPORARY CROSSING

STA. 9+52.17 BRIDGE NO. B-284
REMOVE 2-60' SPAN LOW TRUSSES
5-25' SPANS 24' RDWY. I BEAM
BRIDGE REQ'D.
SEE DRAWINGS X-8723, X-8724 & G-2.

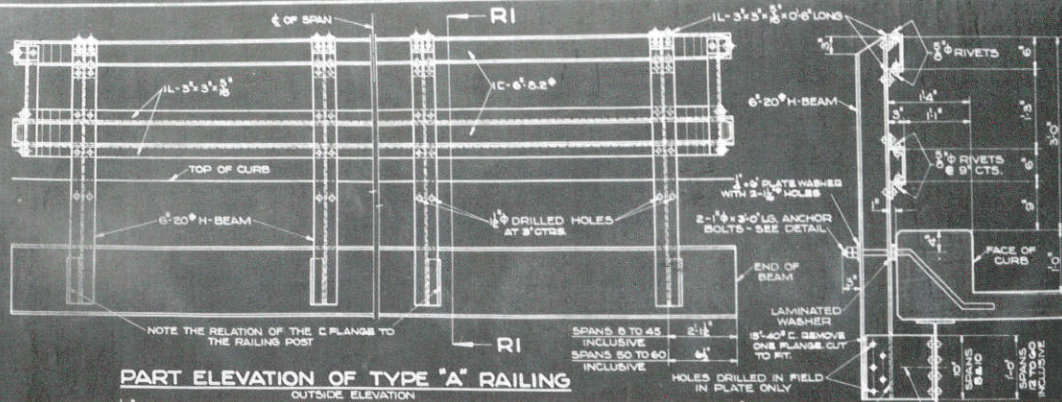
STA. 18+345 END OF
F.A.S. PROJ. 70-A(1)

STA. 18+78 BRIDGE NO. B-285
1-75' SPAN 20' RDWY. LOW TRUSS
GOOD CONDITION - TO REMAIN

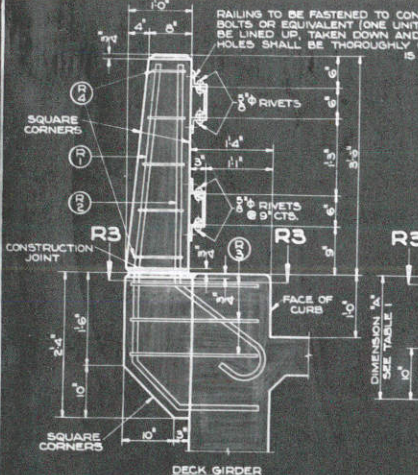


X-8723
X-8724
G-2
LA CROSSE
GOLF CLUB
7095

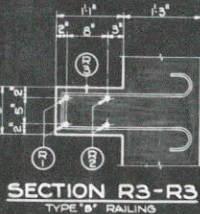
X-8723
X-8724
G-2
LA CROSSE
GOLF CLUB
7095



PART ELEVATION OF TYPE 'A' RAILING
OUTSIDE ELEVATION



SECTION R2-R2
TYPE 'B' RAILING



SECTION R3-R3
TYPE 'B' RAILING

TABLE 2

TYPE	DIMENSION 'A'	DIMENSION 'B'
6'-8'-10'	7'	1'-0"
12'-14'-16'	10'	1'-3"
18'-20'-22'	1'-5"	1'-2"
24'	1'-5"	1'-2"

ALL DECK GIRDER'S

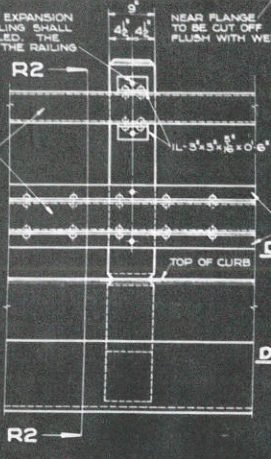
DIMENSION 'A' SEE TABLE 2



BAR STEEL REINFORCEMENT DIMENSIONS ARE TO CENTER OF BAR

TABLE 1

CLEAR SPAN IN FEET	DIM. 'A'
6'-8'-10'	1'-0"
12'-14'-16'	1'-3"
18'-20'-22'	2'-0"
24'	2'-4"



PART ELEVATION OF TYPE 'B' RAILING
INSIDE ELEVATION

BILL OF BARS
FOR TYPE 'B' RAILING

MARK	SIZE	SPACING	LOCATION	CLEAR SPAN IN FEET														
				SLAB SPANS				DECK GIRDER SPANS										
				6'-8'-10'	12'-14'-16'	18'-20'-22'	24'	20'	25-30'	35'	40'	45'	50'	55'	60'			
R1	7/8" φ	SHOWN	VERTICAL IN POSTS - SEE BAR DETAIL	5	8	12	16	20	24	28	32	36	40	44	48	52	56	60
R2	7/8" φ	SHOWN	VERTICAL IN POSTS - SEE BAR DETAIL	5	8	12	16	20	24	28	32	36	40	44	48	52	56	60
R3	1/2" φ	SHOWN	HORIZONTAL IN POST SUPPORT - SEE BAR DETAIL	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
R4	1/2" φ	9' CT.	STIRRUPS IN POSTS - BEND IN FIELD	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160

TABLE OF INTERMEDIATE POST SPACING
FOR TYPE 'A' AND 'B' RAILING

CLEAR SPAN IN FEET	6	8	10	12	14	16	18	20	22	24	25	30	35	40	45	50	55	60
NUMBER OF INTERMEDIATE POSTS (ONE SIDE ONLY)	NONE	NONE	NONE	1	1	1	2	2	2	3	3	4	5	6	7	8	9	10

NOTE: POSTS SHALL BE EQUALLY SPACED.

SECTION R1-R1
TYPE 'A' RAILING

DETAIL OF ANCHOR BOLT
INCLUDED IN STRUCTURAL STEEL

DETAIL OF LAMINATED WASHER

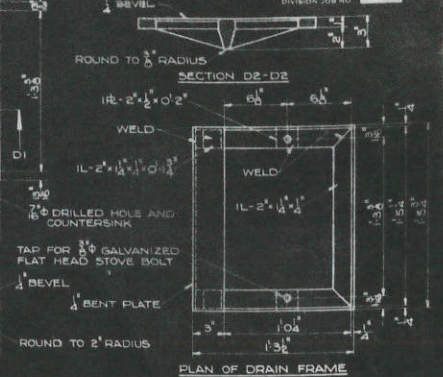
DETAIL SHOWING END OF RAILING

TABLE OF DRAIN SPACING.

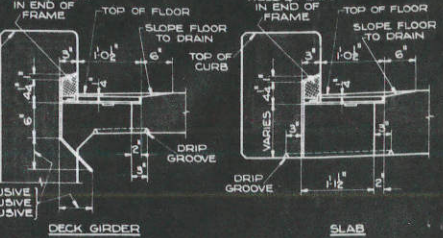
ROADWAY WIDTH IN FEET	CLEAR SPAN IN FEET	NUMBER OF DRAINS																
		6'-8'-10'	12'-14'-16'	18'-20'-22'	24'	20'	25-30'	35'	40'	45'	50'	55'	60'					
20	NONE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
24	NONE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
30	NONE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
36	NONE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
40	NONE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

DESIGN DATA - 1937 SPECIFICATIONS

ITEM	NO.	DESCRIPTION	REVISIONS
1	1	ISSUED	

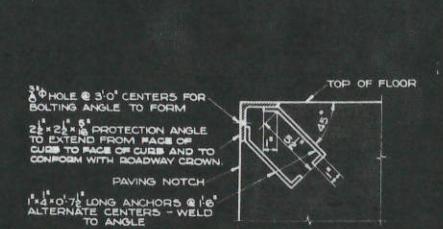


DRAIN DETAILS



SECTIONS THRU DRAIN FRAMES

NUMBER OF DRAINS AS GIVEN IN TABLE IS FOR COMPLETE SPAN. SPACING OF DRAINS AS GIVEN IN TABLE IS TO CENTER OF DRAINS. DRAINS SHALL BE SYMMETRICAL ABOUT CENTER OF SPAN. IF STRUTS OR RAILING ANCHOR BOLTS INTERFERE WITH THE DRAINS, THE LATTER SHALL BE MOVED TO CLEAR THE FORMER.



DETAIL OF PROTECTION ANGLE

GENERAL NOTES

ALL CONCRETE MASONRY SHALL BE GRADE 'AA'. TYPE 'A' RAILING SHALL BE FITTED TO EXTERIOR BEAMS IN SHOP TO INSURE PROPER FIT. ONE SPlice IN EACH RAILING WILL BE PERMITTED IN SPANS 35 TO 60 FEET INCLUSIVE. SPlice TO BE TIGHT FIT AND MADE AT INTERMEDIATE POSTS. RAILING FOR STRUCTURES ON A GRADE SHALL BE BUILT TO VERTICAL LINES. ALL SHOP AND FIELD CONNECTIONS SHALL BE 1/2" φ RIVETS UNLESS OTHERWISE SPECIFIED.

REVISED	BY	DATE	DESCRIPTION
1	C.F.P.	3-11-37	ISSUED
2	C.F.P.	3-11-37	CORRECT

WISCONSIN HIGHWAY COMMISSION
RAILING - DRAIN PROTECTION ANGLE DETAILS

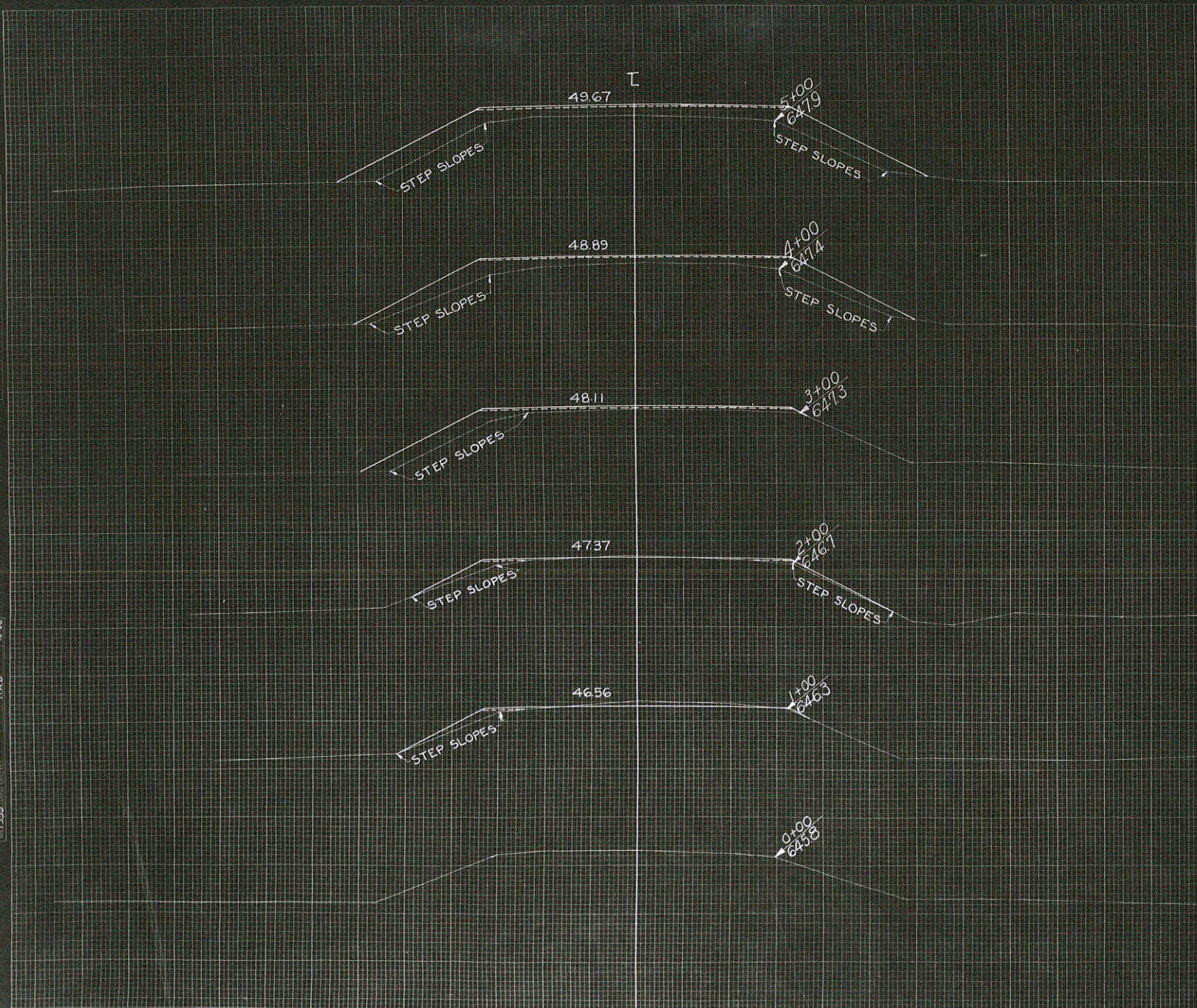
CORRECT: *C. U. Kish*
ENGINEER

APPROVED: *E. L. Riedinger*
STATE HIGHWAY ENGINEER

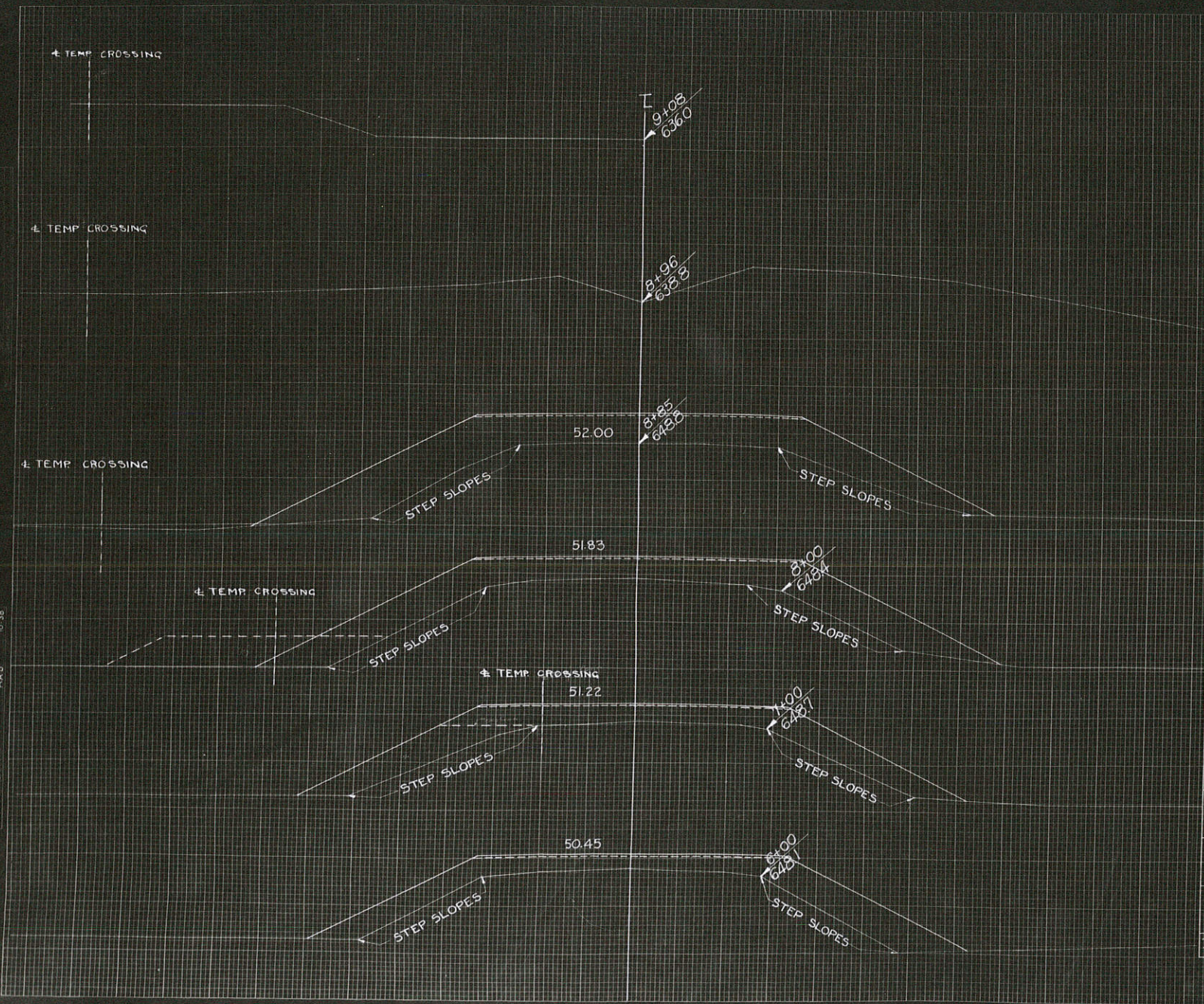
3-14-35-C.P.E.
3-11-37

ORIGINAL SURVEY POINTS
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ORIGINAL SURVEY POINTS
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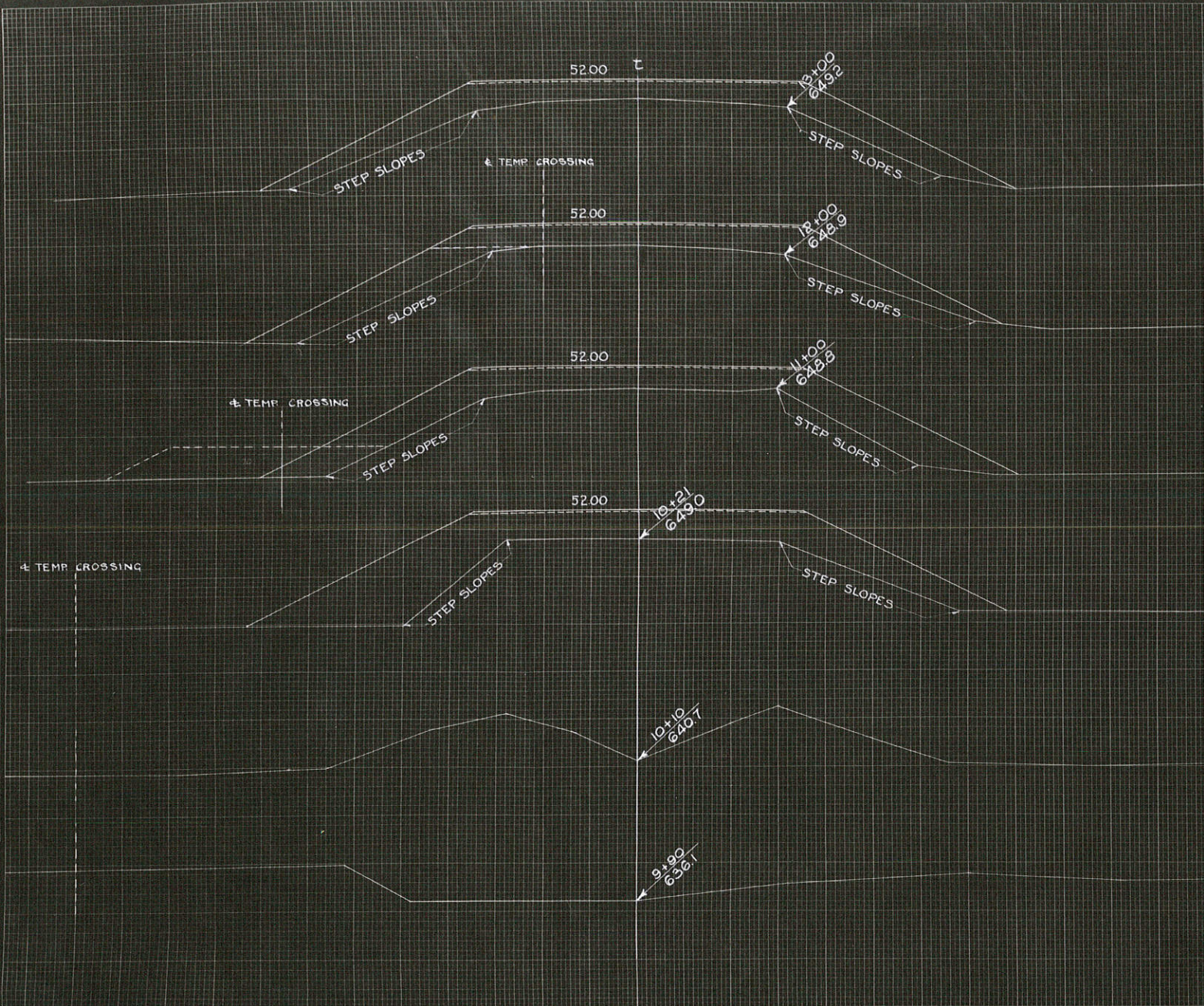


C.Y. STEP SLOPES	STATION	END AREA			DISTANCE	YARDAGE				
		EXCAVATION		FILL		EXCAVATION			TOTAL FILL	
		COMMON	ROCK			COMMON	ROCK	TOTAL		
	1	8		8				17		35
41	2	1		11	100			2		80
44	3	0		32	100			0		178
44	4	0		64	100			0		278
59	5	0		86	100					
188										
SUB TOTAL - MILE								19		571
SHEET TOTAL								19		571



C.Y. STEP SLOPES	STATION	END AREA			DISTANCE	YARDAGE				
		EXCAVATION		FILL		EXCAVATION			TOTAL FILL	
		COMMON	ROCK			COMMON	ROCK	TOTAL		
	5	0		86						
74	6	0		158	100	0			0	452
82	7	0		170	100	0			0	607
83	8	0		228	100	0			0	737
70	+85	0		263	85	0			0	772
2	+90 ⁵	0		263	5 ⁵	0			0	54
	OPEN TYPE ABUT			8+90 ⁵						250
	"			10+45 ⁵						250
	P.E.			5+62	RT.					60
	BRIDGE									
311	SUB TOTAL - MILE _____									
	SHEET TOTAL 0 0 3182									

ORIGINAL SURVEY BY P. H. R. N. G. W. A. R. H. A. B. 7953



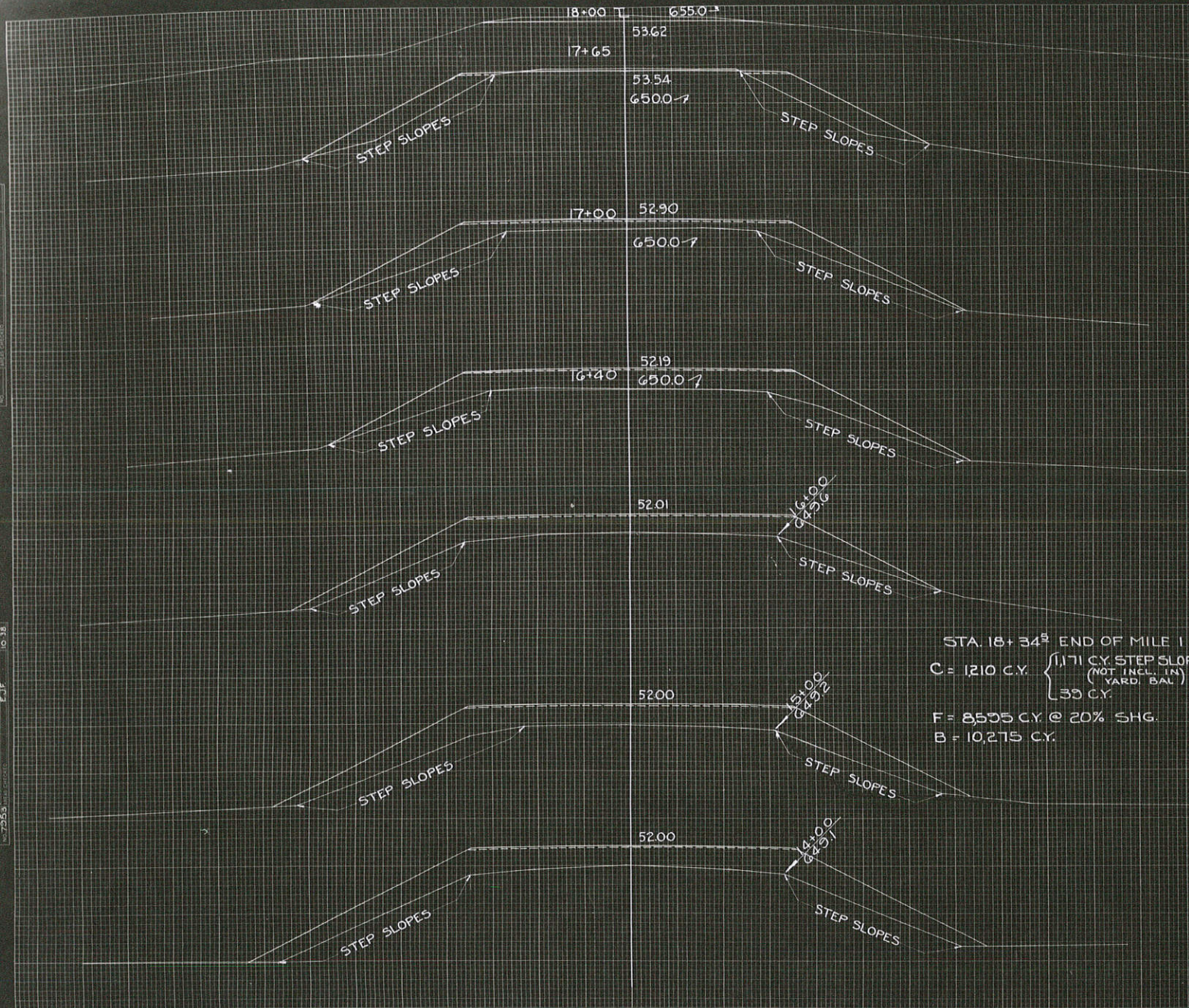
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 DATE: [illegible]

ORIGINAL: [illegible]
 DATE: [illegible]
 7953

C.Y. STEP SLOPES	STATION	END AREA			YARDAGE						
		EXCAVATION		FILL	EXCAVATION			TOTAL FILL			
		COMMON	ROCK		COMMON	ROCK	TOTAL				
		BRIDGE									
	10 + 15 1/2	0		290							
2					0			0	59		
	10 + 21	0		290 5 1/2							
76					0			0	757		
	11	0		228 79							
93					0			0	791		
	12	0		199 100							
87					0			0	702		
	13	0		180 100							
258											
SUB TOTAL - MILE											
SHEET TOTAL									0	0	230

PLAN
 SURVEY
 INSTRUMENT
 DATE
 NO.

ORIGINAL
 SURVEY
 INSTRUMENT
 DATE
 NO.



FEDERAL ROAD DIST. NO. 4 STATE WISCONSIN PROJ. NO. 70-AU SHEET NO. 15 TOTAL SHEETS 16
 DIVISION JOB NO. 5677

C.Y. STEP SLOPES	STATION	END AREA			DISTANCE	YARDAGE				
		EXCAVATION		FILL		EXCAVATION			TOTAL FILL	
		COMMON	ROCK			COMMON	ROCK	TOTAL		
	13	0		180			0			0 654
91	14	0		173	100		0			0 626
89	15	0		165	100		0			0 552
78	16	0		133	100		0			0 191
30	+40	0		124	40		0			0 231
50	17	0		84	60		0			0 178
59	+65	6		64	65		2			2 41
17	18	11		0	35		7			7 0
	+34 ^S	0		0	34 ^S					
	P.E. 16+63 LT									60
414										
SUB TOTAL - MILE										
SHEET TOTAL								20		20 2533

STA. 18+34^S END OF MILE 1
 C = 1210 C.Y. { 1,171 C.Y. STEP SLOPES (NOT INCL. IN YARD, BAL.) }
 F = 8,595 C.Y. @ 20% SHG.
 B = 10,275 C.Y.

GRADE SHEET

FED. ROAD DIST. NO.	STATE	P. C. PLAN NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	70-AE	16	16
DIVISION JOB NO.				5677

STAKE NO.	DISTANCE FROM STAKE TO ϵ OF NEW ROAD	ELEVATION TOP OF STAKE	DISTANCE FROM ϵ	
			TO SLOPE LEFT OF ϵ	STAKE RIGHT OF ϵ
1	16.1 L	646.75	26	20
2	16.7 L	47.20	25	30
3	17.5 L	47.76	30	20
4	15.4 L	47.99	31	30
5	15.1 L	48.44	32	31
6	14.0 L	48.70	35	37
7	14.3 L	49.31	35	36
8	15.7 L	48.84	41	40
+85			42	39
10+21			42	39
11	14.6 L	49.32	41	40
12	15.5 L	49.40	42	39
13	15.6 L	49.73	41	40
14	16.6 L	49.61	42	39
15	15.5 L	49.77	39	37
16	15.8 L	50.16	37	34
+40			33	37
17	16.3 L	50.11	35	37
+65			35	33
18	27.4 L	48.85	16	15

CIVIL SURVEY
 NOTE BOOK NO. 1111-111111

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