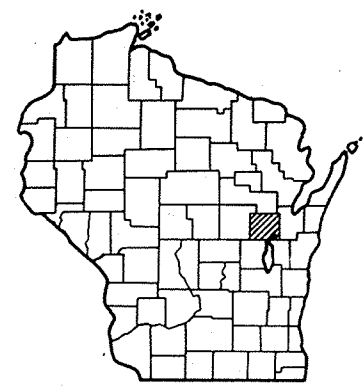


Index of Sheets

Sheet No.	1	Title
Sheet No.	3	Typical Cross Sections
Sheet No.	3	Estimate of Quantities
Sheet No.	—	Miscellaneous Quantities
Sheet No.	—	Right of Way Plat
Sheet No.	5-5.2	Plan and Profile STA. 310 + 40.93 TO 374 + 20.20
Sheet No.	6	Standard Details
Sheet No.	—	Structure Plans
Sheet No.	—	Cross Sections

Total Sheets = 7



Design Designation

A. D. T.	1975	=	800
A. D. T.	1995	=	2,800
D. H. V.		=	710
D.		=	60%
T.		=	10%
V.		=	60 MPH.

BEGINNING OF PROJECT 4685-1-71,72

STA. 310+40.93
42' SOUTH AND 43' WEST OF THE NORTHEAST CORNER
OF SECTION 35, TOWNSHIP 21 NORTH, RANGE 18 EAST.

END OF PROJECT 4685-1-71,72

STA. 374+20.20
988' NORTH AND 912' EAST OF THE SOUTHWEST CORNER
OF SECTION 30, TOWNSHIP 21 NORTH, RANGE 19 EAST.

State Line	-----
County Line	-----
Township or Range Line	-----
Section Line	-----
New Right of Way Line	-----
Present Right of Way Line	-----
Wire Fence	Woven Barbed
Lot Line	-----
Corporate or City Limits	-----
Property Line	-----
Traveled Way or P. E.	-----
Railroads	-----
Base or Survey Line	-----

Conventional Signs

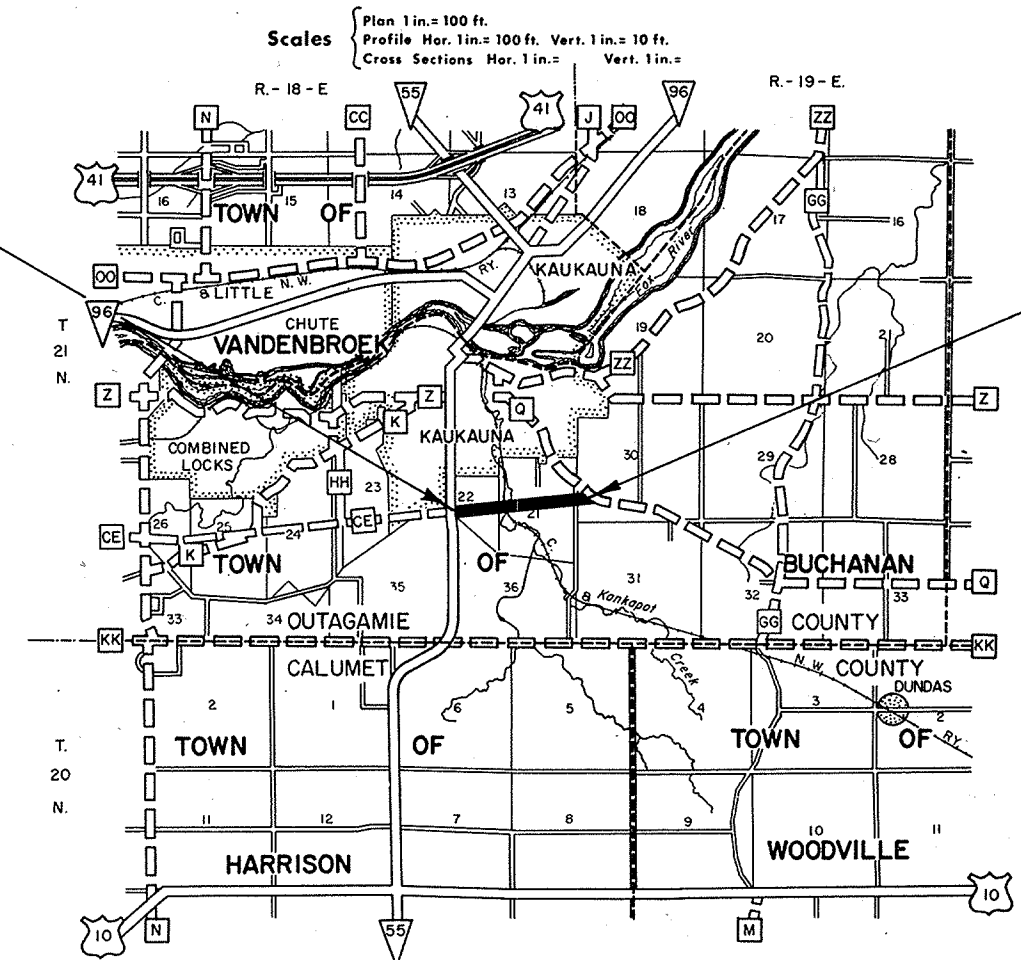
Culverts in Place	-----
Culverts Required	-----
Drop Inlet	-----
Power Pole	-----
Telephone or Telegraph Pole	-----
Right of Way Markers	-----
Reference Stake for Hubs Only	-----
Marsh	-----
Hedge	-----
Trees	-----
Ground Elevation	Datum Line 73.9
Grade Elevation	Datum Line 76.16

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED
S.T.H. 55 - C.T.H. "Q" ROAD
(EAST COLLEGE AVENUE EXPRESSWAY EXTENSION)

C.T.H. "CE"
OUTAGAMIE COUNTY

STATE PROJECT NUMBER
4685-1-72



Layout
Scale
ONE MILE
Total Net Length of Centerline = 1.208 Mi.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4685-1-72	OS4499(1)	2

APPROVED FOR OUTAGAMIE COUNTY BOARD OF SUPERVISORS BY:	
OUTAGAMIE COUNTY, WISCONSIN	
6/9/75	<i>Harold Brown</i> DATE SIGNATURE OF OFFICIAL
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
Surveyor C.E.S.	District Checker R.G.P.
Designer W.R.K.	C.O. Checker L.L.J.
Correct:	
Date 6-13-75	<i>C. R. Ryan</i> District Engineer
Recommended for Approval:	
Date 7/24/75	<i>I. C. Herried</i> Chief of Facilities Development
Approved:	
Date 7/24/75	<i>H. L. Priedler</i> State Highway Engineer
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
REGION 5 WISCONSIN DIVISION	
Approved:	
Date	Division Engineer

4685-1-71,72

4-70

ESTIMATE OF QUANTITIES

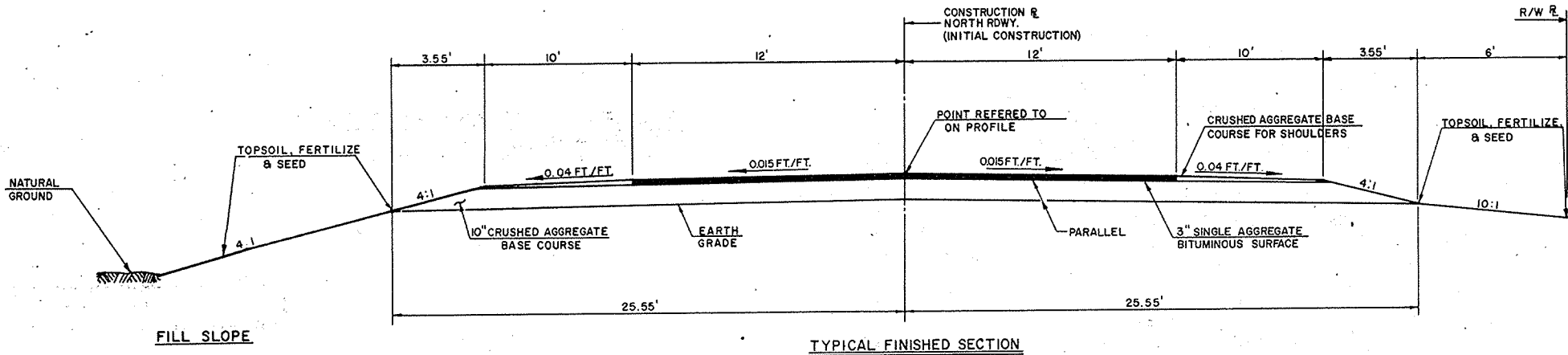
CONTRACT NO. 1 (4685-1-71)
PRODUCING & HAULING (BASE)
PRODUCING & HAULING SURFACE (SINGLE AGGREGATE BITUMINOUS)

STATE PROJECT NUMBER
4685-1-71, 72

SHEET NO.
3

CONTRACT NO. 2 (4685-1-72)
SHAPING AND COMPACTING (BASE)
PLACING (SINGLE AGGREGATE BITUMINOUS)

CONTRACT NO.	STATION TO STATION	NET LENGTH OF CENTER LINE	PRODUCING AND HAULING CRUSHED AGGREGATE BASE COURSE	SHAPING AND COMPACTING CRUSHED AGGREGATE BASE COURSE	BITUMINOUS MATERIAL FOR PRIME COAT	BITUMINOUS MATERIAL FOR SURFACE COURSE	FIELD OFFICE TYPE "A"	PLACING SINGLE AGGREGATE BITUMINOUS SURFACE	PRODUCING AND HAULING SINGLE AGGREGATE BITUMINOUS SURFACE																
		ITEM NO. UNIT	LIN. FT.	TON	TON	GAL.	TON	L.S.	TON	TON															
1	STA. 310+40.93 - 374+20.20		6,379.27	20,900			188	1		3,125															
2	STA. 310+40.93 - 374+20.20		6,379.27		20,900	3,000			3,125																
PROJECT TOTALS			6,379.27	20,900	20,900	3,000	188	1	3,125	3,125															



GENERAL NOTES

WHEN THE QUANTITY OF THE ITEM SURFACE COURSE IS MEASURED BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.
ITEMS LISTED ON PLAN AND PROFILE SHEETS, AND NOT INCLUDED IN THE ESTIMATE OF QUANTITIES, ARE NOT A PART OF THIS CONTRACT.

STANDARD DETAIL DRAWINGS

DESIGN & LAYOUT FOR SIDE ROAD AT-GRADE INTERSECTION.....9A1-2
CONSTRUCTION BARRICADE.....15C1-4

UTILITIES

WISCONSIN TELEPHONE COMPANY
MR. CHARLES R. SMITH
221 W. WASHINGTON ST.
APPLETON, WIS.
CITY OF KAUKAUNA
DIRECTOR OF PUBLIC WORKS 766-4682
CITY HALL
101 MAIN AVE.
KAUKAUNA, WIS.

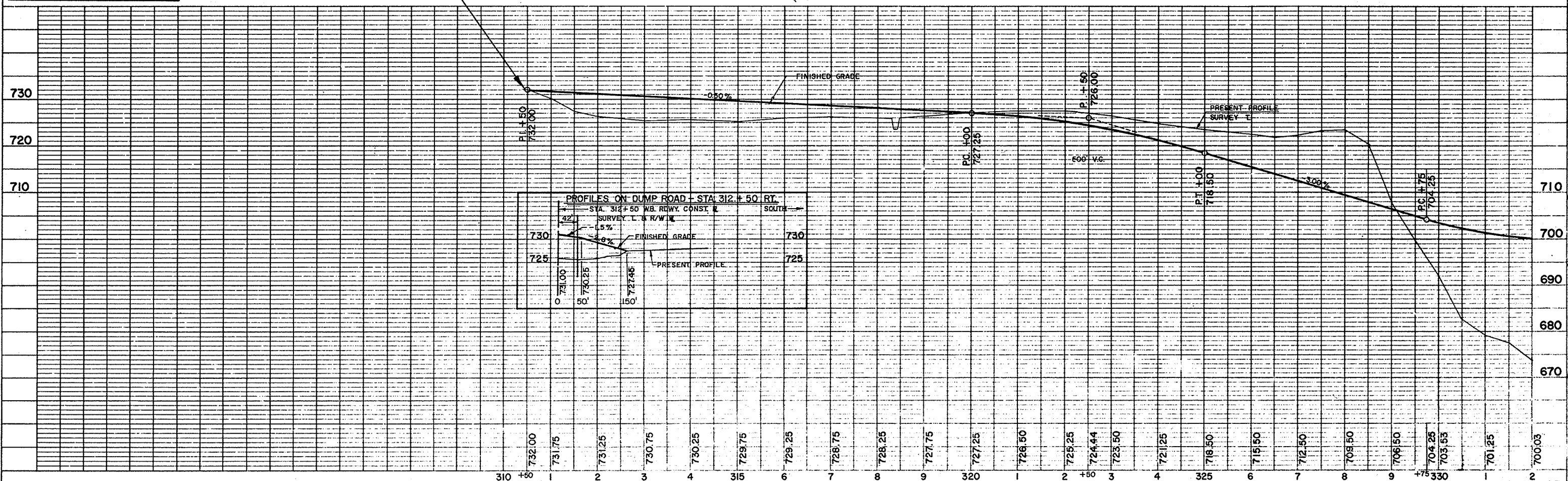
BENCH MARKS				
NO.	STATION	DESCRIPTION		ELEV.
38	311+00	PAINT MARK ON N.W. CORNER BOTTOM STEP	200' RT.	733.25
38A	311+00	PAINT MARK ON N.W. CORNER CONCRETE PORCH FLOOR	145' RT.	734.08
39	325+21	P.K. NAIL IN 22" OAK	195' RT.	719.54
40	329+40	P.K. NAIL IN 28" OAK	165' RT.	706.95

STATE PROJECT NUMBER	SHEET NO.
4685-1-71, 72	5

NOTE: SEE PL. 12-58
FOR
REVISIONS
TO
THIS
DRAWING

NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
310+40.93	330+00	1,959.07

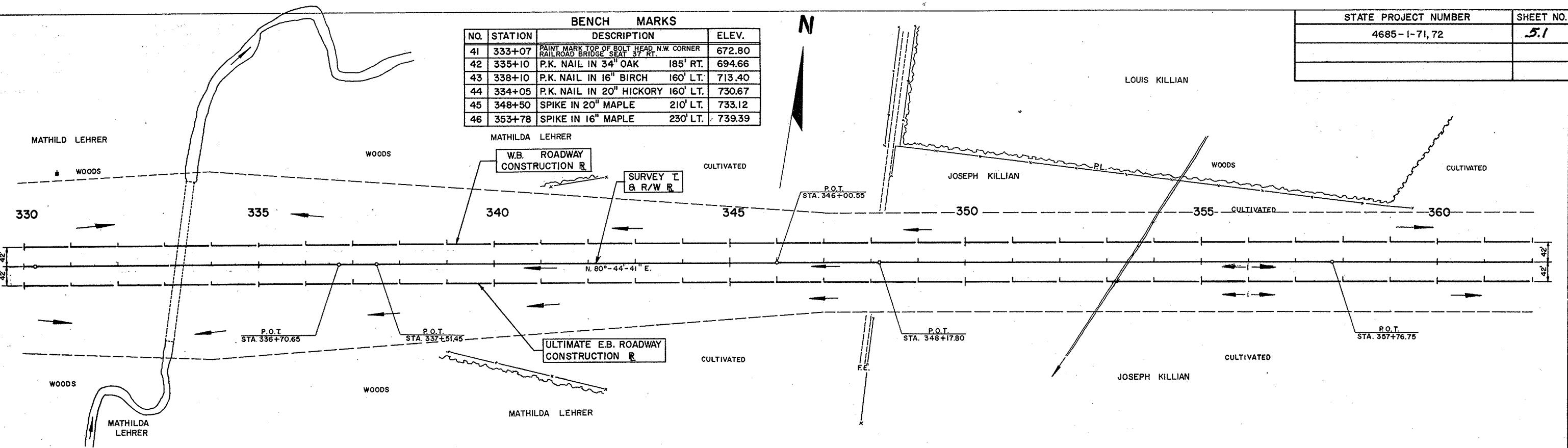
BEGIN PROJ. 4685-1-71, 72
STA. 310 + 40.93



NOTE: SEE PL. 12-58
FOR
REVISIONS
TO
THIS
DRAWING

STATE PROJECT NUMBER	SHEET NO. ^{1/5}
4685-1-71,72	5.1

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
41	333+07	PAINT MARK TOP OF BOLT HEAD N.W. CORNER RAILROAD BRIDGE SEAT 37' RT.	672.80
42	335+10	P.K. NAIL IN 34" OAK 185' RT.	694.66
43	338+10	P.K. NAIL IN 16" BIRCH 160' LT.	713.40
44	334+05	P.K. NAIL IN 20" HICKORY 160' LT.	730.67
45	348+50	SPIKE IN 20" MAPLE 210' LT.	733.12
46	353+78	SPIKE IN 16" MAPLE 230' LT.	739.39



NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
330+00	360+00	3,000.00

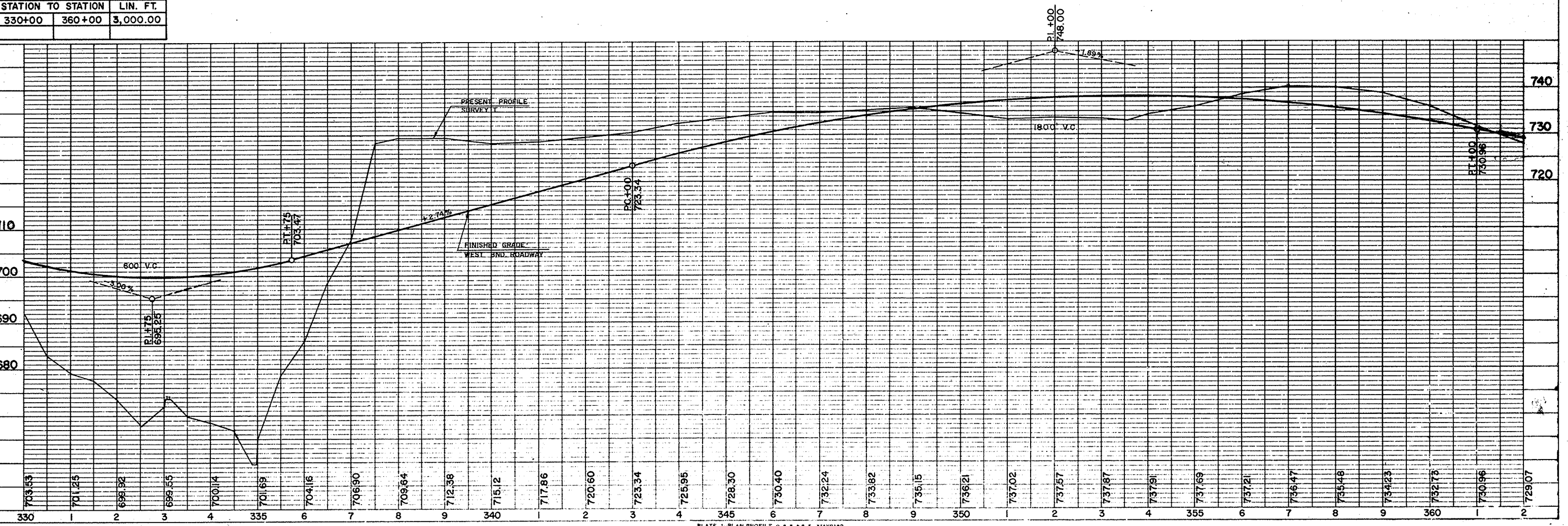
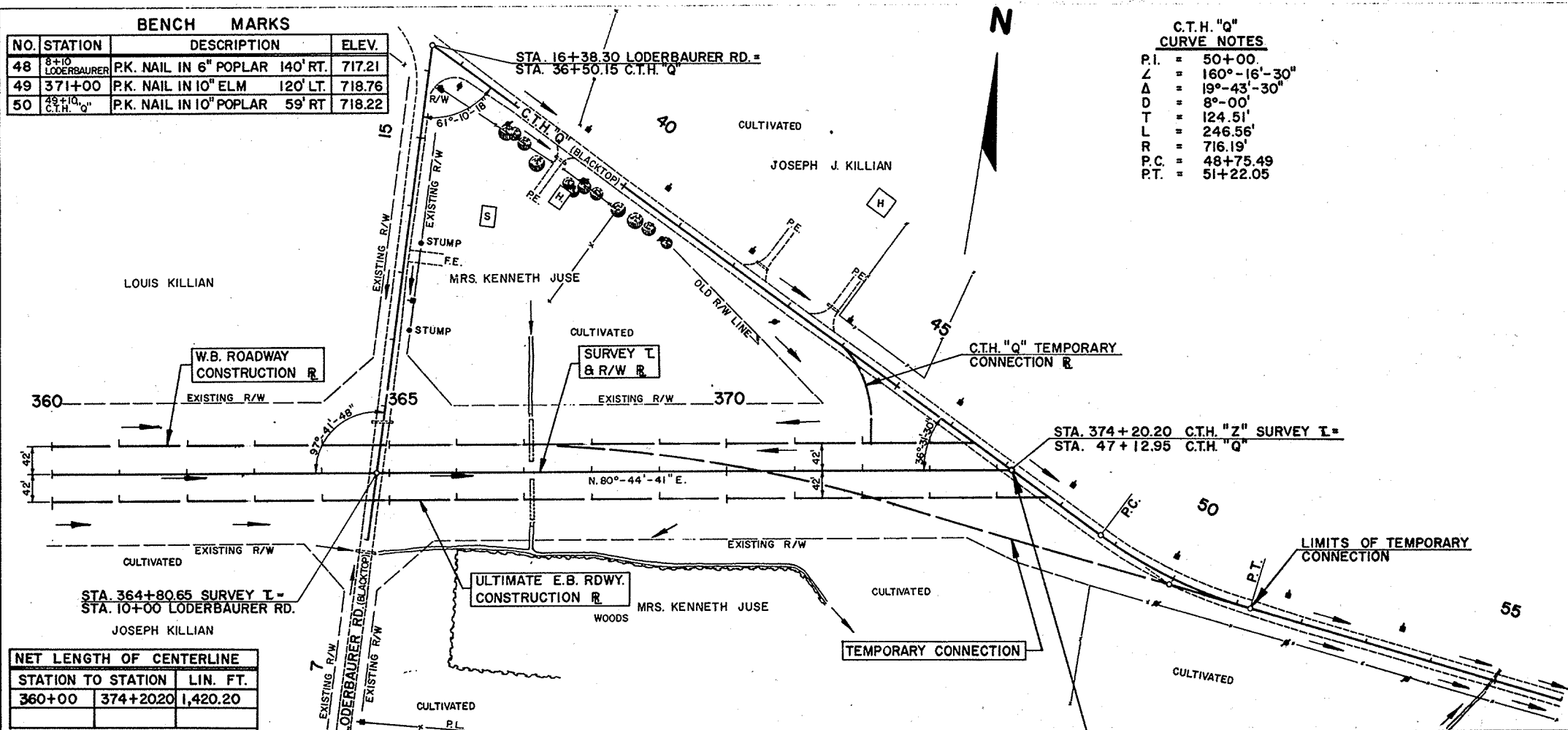


PLATE 1 PLAN PROFILE OF P & R E STANDARD
NATIONAL TRACING PAPER DIVISION
14" x 22" 10" x 10" 10" x 10" 10" x 10"

BENCH MARKS		
NO.	STATION	DESCRIPTION
48	8+10	LODERBAURER
49	371+00	P.K. NAIL IN 6" POPLAR 140' RT.
50	371+00	P.K. NAIL IN 10" ELM 120' LT.
50	49+10	C.T.H. "Q"
		P.K. NAIL IN 10" POPLAR 59' RT.
		ELEV.
		717.21
		718.76
		718.22

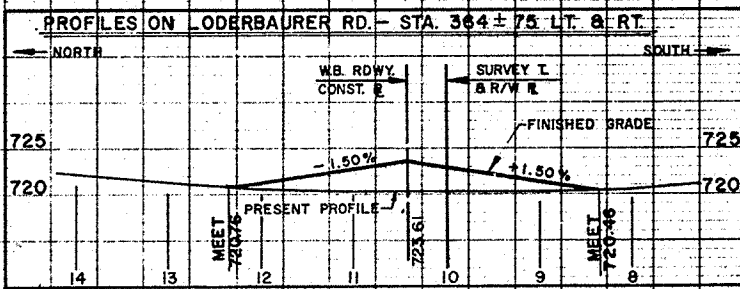
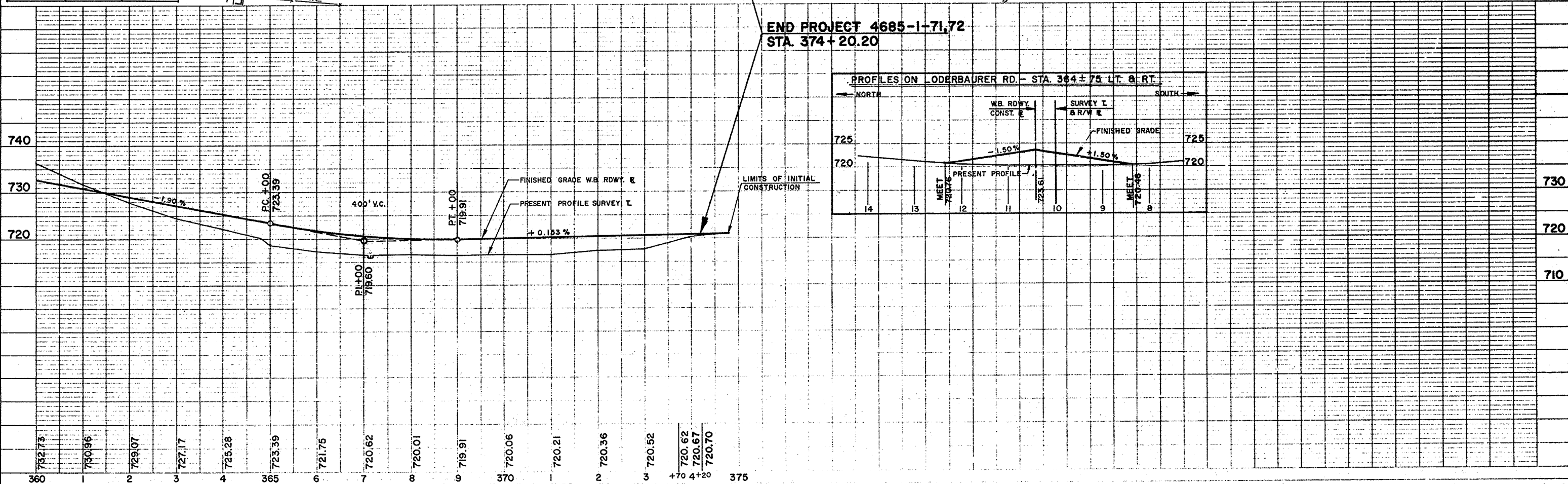
C.T.H. "Q"	
CURVE NOTES	
P.I.	= 50+00
Δ	= 160°-16'-30"
A	= 19°-43'-30"
D	= 8°-00'
T	= 124.51'
L	= 246.56'
R	= 716.19'
P.C.	= 48+75.49
P.T.	= 51+22.05

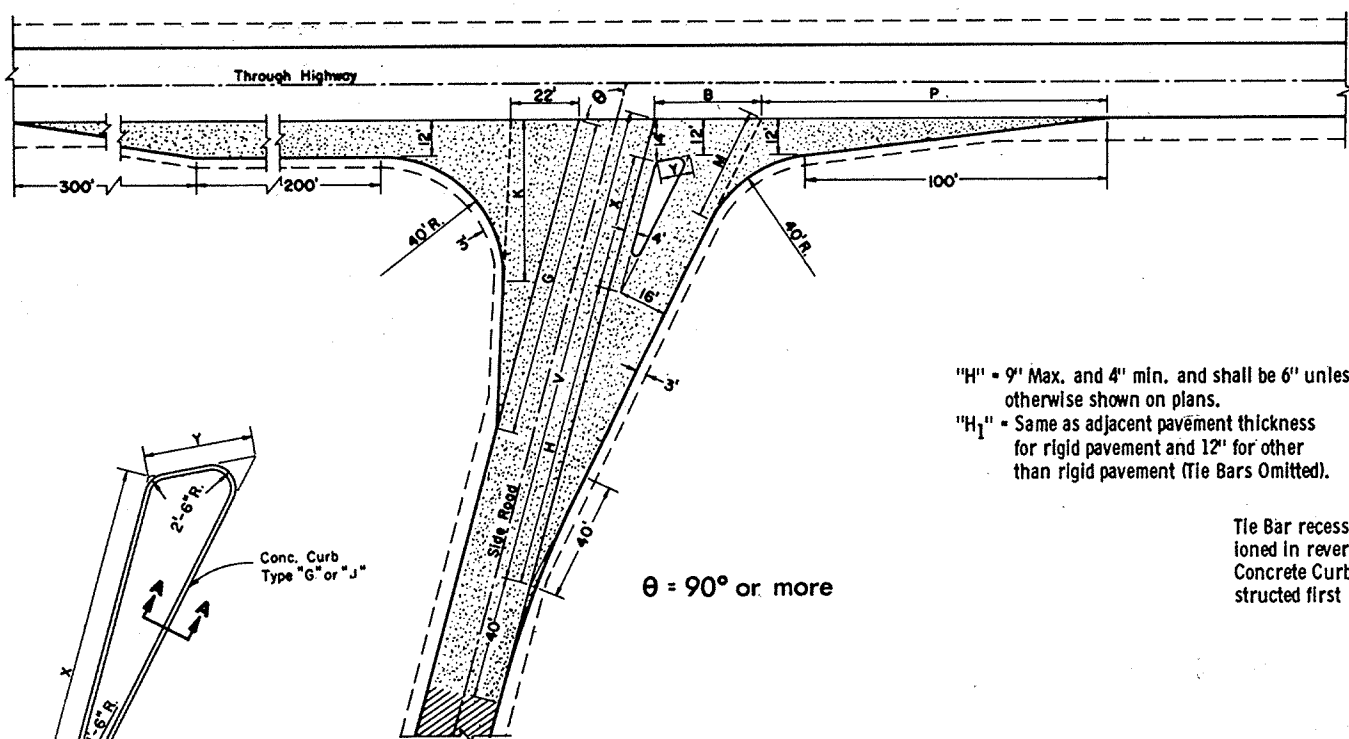
STATE PROJECT NUMBER	SHEET NO.
4685-1-71,72	5.2



NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
360+00	374+2020	1,420.20

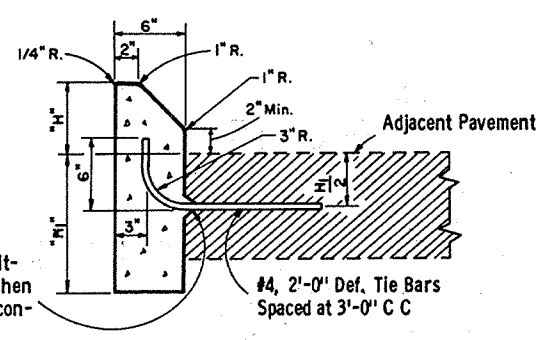
END PROJECT 4685-1-71,72
STA. 374+20.20





$\theta = 90^\circ$ or more

"H" = 9" Max. and 4" min. and shall be 6" unless otherwise shown on plans.
 "H₁" = Same as adjacent pavement thickness for rigid pavement and 12" for other than rigid pavement (Tie Bars Omitted).



SECTION A-A

Note: To be measured and paid for as Type "G" (Including Tie Bars) or Type "J" (Excluding Tie Bars) Concrete Curbs.

TABLES OF DIMENSIONS FOR VARIABLE SIDE ROAD INTERSECTION ANGLES
 (Values for Angles not shown shall be interpolated)

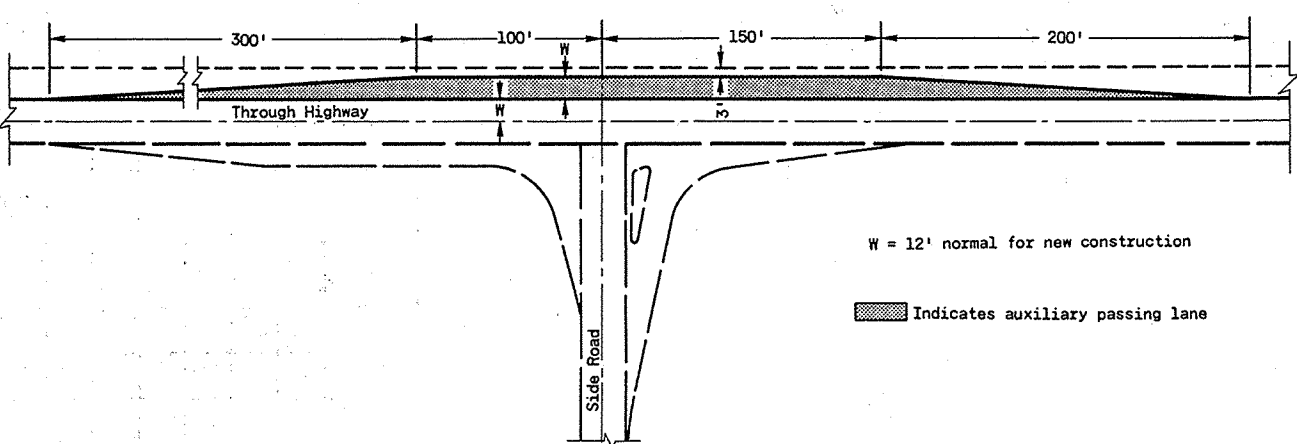
θ	G	K	B	V	H	X	Y	P	M
90	90	43.8	33.9	156.0	94	48.0	11.0	125.0	44.2
95	94	46.7	34.0	156.7	96	47.0	11.0	121.3	41.9
100	98	50.0	34.4	157.4	98	45.9	11.0	117.7	39.7
105	102	53.8	35.2	158.3	100	44.9	11.2	114.2	37.8
110	106	58.2	36.4	159.2	102	43.7	11.4	110.6	36.2
115	110	63.4	38.4	161.8	104	42.6	11.7	107.1	34.8
*120	114	69.4	40.1	161.2	106	41.4	12.2	103.4	33.7

*Maximum angle of intersection

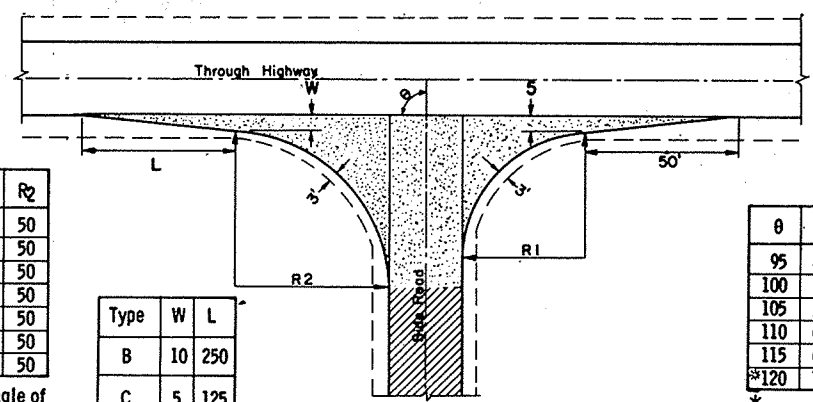
θ	C	G	K	B	V	X	Y	H	P	M	T
*60	19.7	76.3	38.6	41.5	169.9	67.4	29.3	84	144.5	58.8	21.6
65	17.8	82.6	40.6	39.4	166.9	63.6	25.0	86	141.2	54.9	20.7
70	15.8	87.2	43.1	37.4	164.1	59.7	21.9	88	136.8	51.4	19.2
75	15.7	90.9	45.6	35.7	161.4	55.9	19.3	90	132.7	48.2	17.4
80	15.9	94.9	48.3	34.4	158.9	51.9	17.0	92	128.8	45.3	14.9
85	16.2	99.3	51.4	33.4	156.4	48.0	15.0	94	125.2	42.7	10.4

*Desirable Minimum angle of intersection

TYPE "A" SIDE ROAD INTERSECTION DETAILS



PASSING LANE DETAIL



θ	R ₁	R ₂
*60	40	50
65	40	50
70	40	50
75	40	50
80	40	50
85	40	50
90	40	50

*Min. Angle of Intersection

Type	W	L
B	10	250
C	5	125

θ	R ₁	R ₂
95	45	49
100	50	48
105	55	47
110	60	46
115	65	45
*120	70	44

*Max. Angle of Intersection

GENERAL NOTES

Designs may be used interchangeably in combination or separately for any one complete intersection depending upon intersection angle and surfacing of each approach roadway.

Details on this drawing are for minimum design only, and not applicable to special conditions, as shown elsewhere on the plans.

SIDE ROAD SURFACING NOTE

If the side road is not presently paved, pavement shall be placed to the limits shown. In the case where the construction limits are beyond the paving limits, gravel or crushed stone surfacing shall be placed between the paving limits and construction limits.

If the side road is presently paved, new pavement shall be placed to the limits of design as shown and beyond, if necessary, to meet existing pavement.

If side road is the construction project, the intersection surfacing shall be the same as for the project.

New Pavement
 Existing Surface

**LAYOUT DETAILS
FOR AT-GRADE SIDE ROAD
INTERSECTIONS**

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:
4-11-73
 DATE
 APPROVED
4-17-73
 DATE

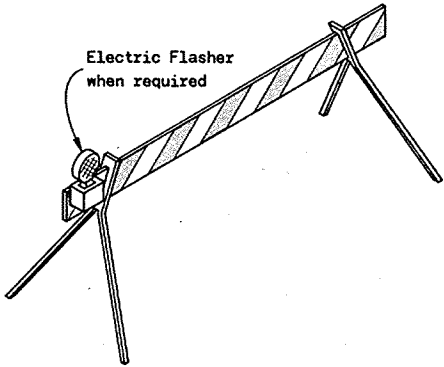
[Signature]
CHIEF OF FACILITIES DEVELOPMENT

[Signature]
STATE HIGHWAY ENGINEER

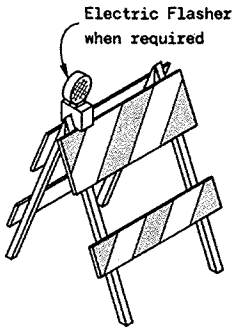
TABLE OF BARRICADE CHARACTERISTICS

BARRICADE TYPE	I	II	III
Height	3'(91.4 cm) Min.		5'(152.4 cm) Min.
* Rail Width	8"(20.3 cm) Min. to 12"(30.5 cm) Max.		
Rail Length	2'(61.0 cm) Min. to Variable Maximum		
** Stripe Width	6" (15.2 cm) at 45° Angle		
Stripe Colors	Reflectorized Orange & White		

* Nominal dimensions when barricade is constructed of lumber.
** May be 4"(10.2 cm) for rail lengths less than 3'(91.4 cm).



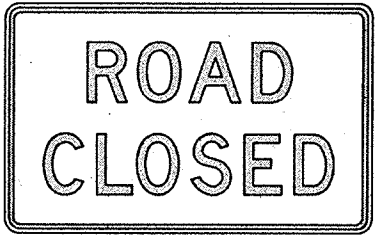
TYPICAL TYPE I BARRICADE



TYPICAL TYPE II BARRICADE

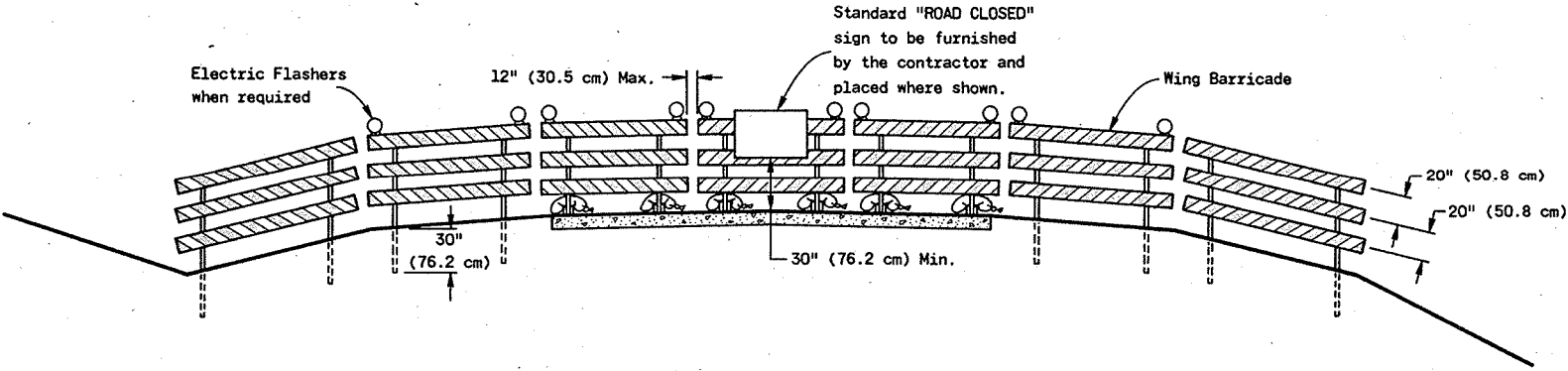


W20-3
48"(121.9 cm) x 48"(121.9 cm)
Black Lettering on Reflective Orange Background
Letter Series "D"
Letter height 7" (17.8 cm)



R11-2
48"(121.9 cm) x 30"(76.2 cm)
Black Lettering on Reflective White Background
Letter Series "D"
Letter height 8" (20.3 cm)

STANDARD SIGNS-TYPE II



TYPICAL INSTALLATION SHOWING TYPE III BARRICADE

CONSTRUCTION BARRICADES

GENERAL NOTES

The contractor shall furnish, erect and maintain Barricades and Signs. Details regarding location, spacing, dimensions, fabrication, material, sign lettering, lighting devices and color of Barricades and Signs shall conform to this drawing, the Wisconsin Manual on Uniform Traffic Control Devices, the Standard Specifications, Special Provisions and/or plans.

Type III Barricades and Signs shall be erected at the termini of projects and at other road or street locations where it is necessary to control or eliminate public access to the construction area.

Type I and II Barricades shall be used on projects when traffic is to be maintained through the construction area.

The actual field location of barricade installations and advance signs shall be as directed by the Engineer.

CONSTRUCTION BARRICADES
& STANDARD SIGNS

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:

6-6-75

DATE

J.C. Hennrich
CHIEF OF FACILITIES DEVELOPMENT

APPROVED

6-6-75

DATE

W.J. Fisher
STATE HIGHWAY ENGINEER