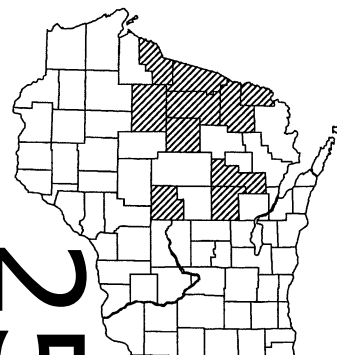


ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plat
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections

TOTAL SHEETS = 52



25

DESIGN DESIGNATION

A.A.D.T.	=	N/A
A.A.D.T.	=	N/A
D.H.V.	=	N/A
D.D.	=	N/A
T.	=	N/A
DESIGN SPEED	=	N/A
ESALS	=	N/A

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

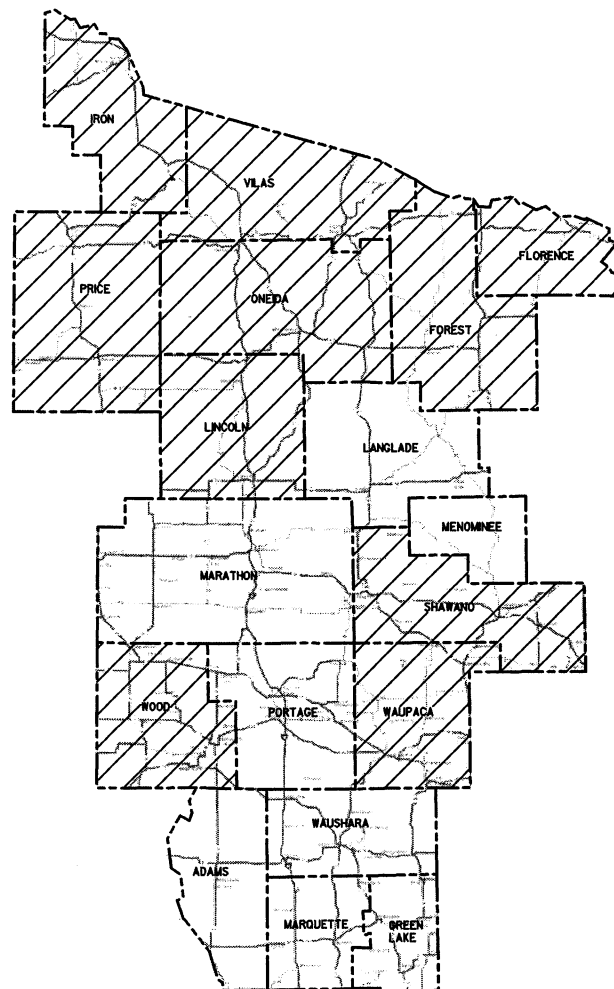
NC REGION CENTERLINE PRESERVATION

VARIOUS COUNTIES

VARIOUS HIGHWAYS

NC REGION WIDE

STATE PROJECT NUMBER
1009-43-65



LAYOUT
SCALE 0 MI. (NOT TO SCALE)

TOTAL NET LENGTH OF CENTERLINE = N/A

STATE PROJECT

1009-43-65

FEDERAL PROJECT

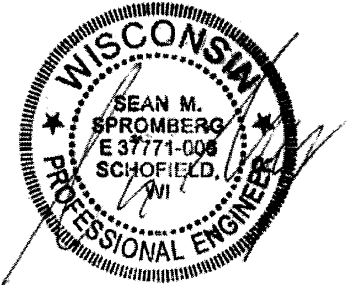
PROJECT

CONTRACT

ORIGINAL PLAN PREPARED BY

BECHER HOPPE

330 Fourth Street • PO Box 8000
Wausau, WI • 54402-8000
715.845.8000 • Fax 715.845.8008
becherhoppe.com



1-17-14

(Date)

(Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	
Designer	BECHER-HOPPE ASSOCIATES, INC.
Project Manager	MICHAEL GRAGE, PE
Regional Examiner	CHERYL SIMON, PE
Regional Supervisor	ROBIN STAFFORD, PE

APPROVED FOR THE DEPARTMENT

DATE: 1-23-14

E

GENERAL NOTES

ALL WASTE MATERIAL RESULTING FROM THE VARIOUS OPERATIONS UNDER THIS CONTRACT SHALL BE COLLECTED TO BE PROPERLY DISPOSED OF PRIOR TO REOPENING LANES TO TRAFFIC.

PURSUANT TO CHAPTER 59 OF THE WISCONSIN STATUTES. THE CONTRACTOR SHALL CAREFULLY MAKE A SEARCH FOR EVIDENCE OF A LANDMARK IN ALL AREAS WHERE SUCH A LANDMARK MAY EXIST.

THE CONTRACTOR SHALL NOT GO OUTSIDE THE LIMITS OF CONSTRUCTION WITHOUT APPROVAL FROM THE ENGINEER.

SECTION 2 ORDER

GENERAL NOTES
PROJECT OVERVIEW
CONSTRUCTION DETAILS
PLAN DETAILS

DNR CONTACTS

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
COUNTIES: FLORENCE, FOREST, IRON, LINCOLN,
ONEIDA, PRICE, AND VILAS
DNR NORTHERN REGION HQ
107 SUTLIFF STREET
RHINELANDER, WI 54501
JON SIMONSEN
PHONE: (715) 365-8916
Jonathan.Simonsen@wisconsin.gov

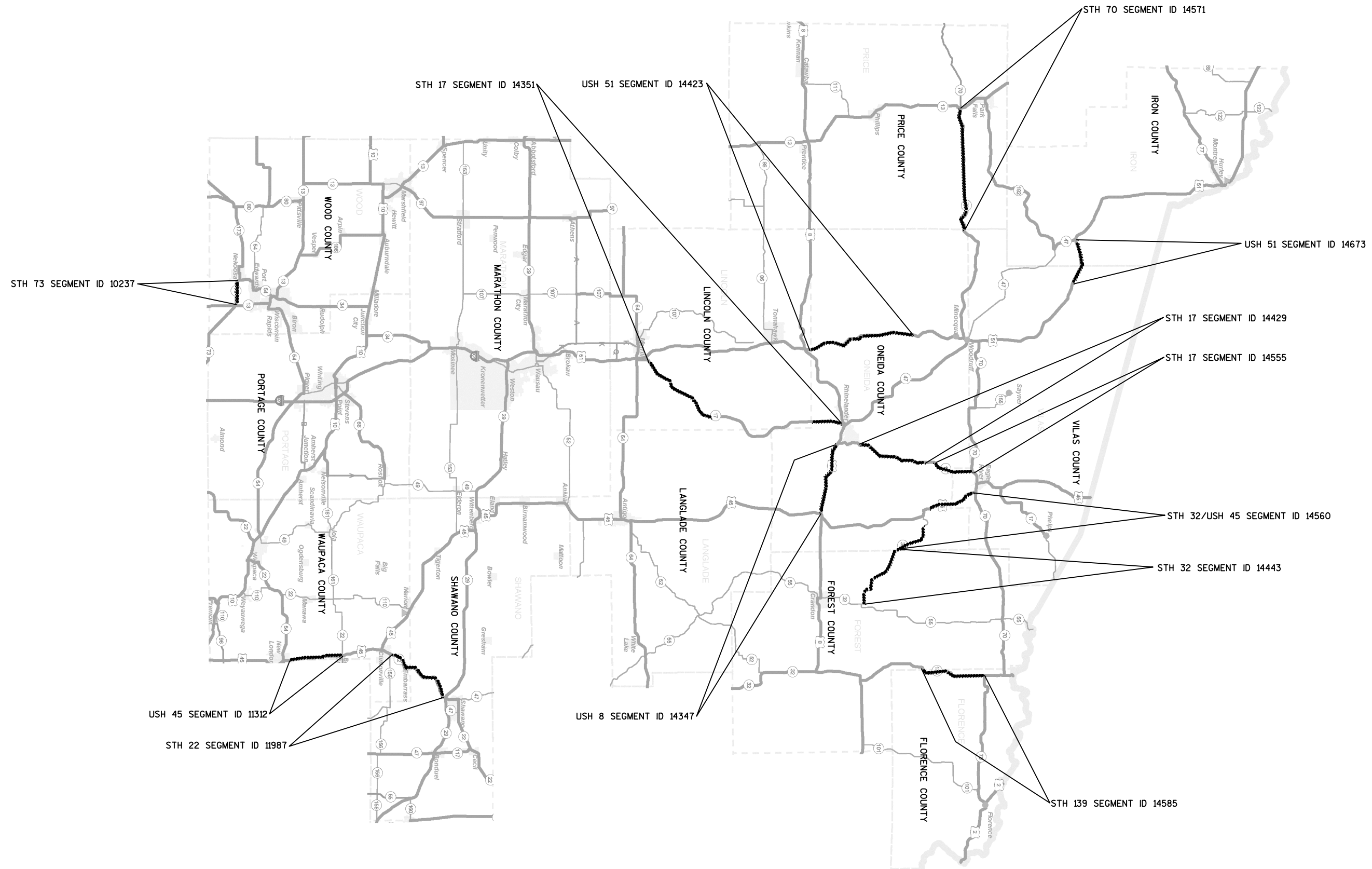
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
COUNTIES: SHAWANO
DNR NORTHEAST REGIONAL HQ
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
JAMES DOPERALSKI
PHONE: (920) 662-5119
James.Doperalski@wisconsin.gov

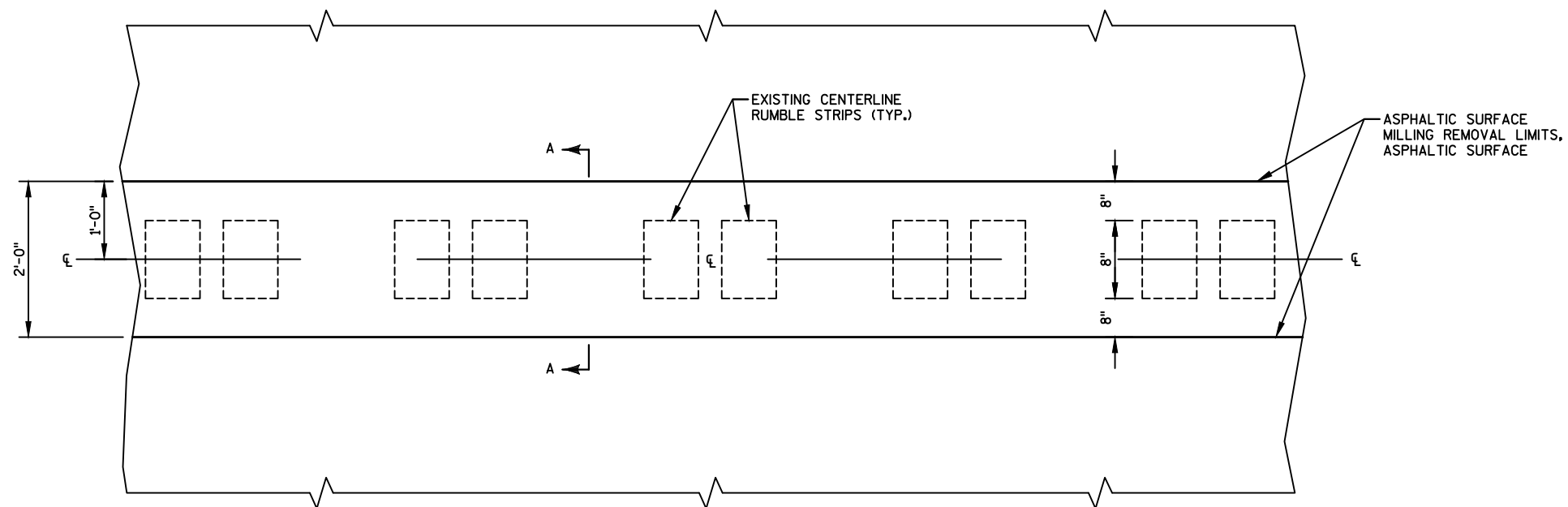
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
COUNTIES: WOOD
WISCONSIN RAPIDS SERVICE CENTER
473 GRIFFITH AVENUE
WISCONSIN RAPIDS, WI 54494
MARC HERSHFELD
PHONE: (715) 421-7867
Marc.Hershfield@wisconsin.gov

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
COUNTIES: WAUPACA
WAUTOMA SERVICE CENTER
427 EAST TOWER DRIVE, SUITE 100
WAUTOMA, WI 54982
BOBBI JO FISCHER
PHONE: (920) 787-3015
Bobbi.Fischer@wisconsin.gov

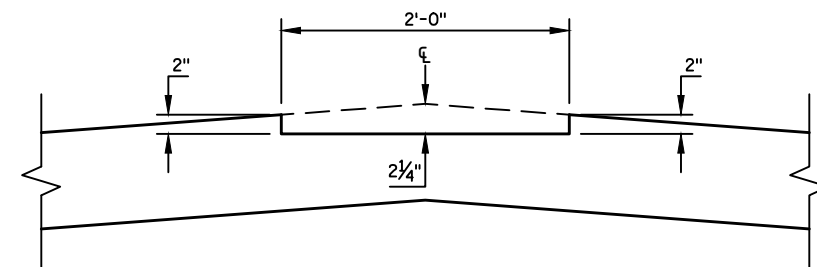


Dial 811 or (800)242-8511
www.DiggersHotline.com

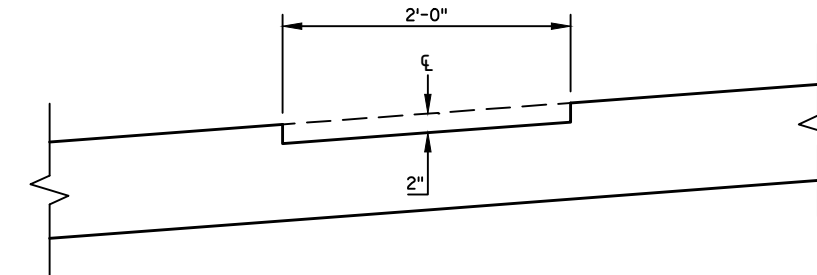




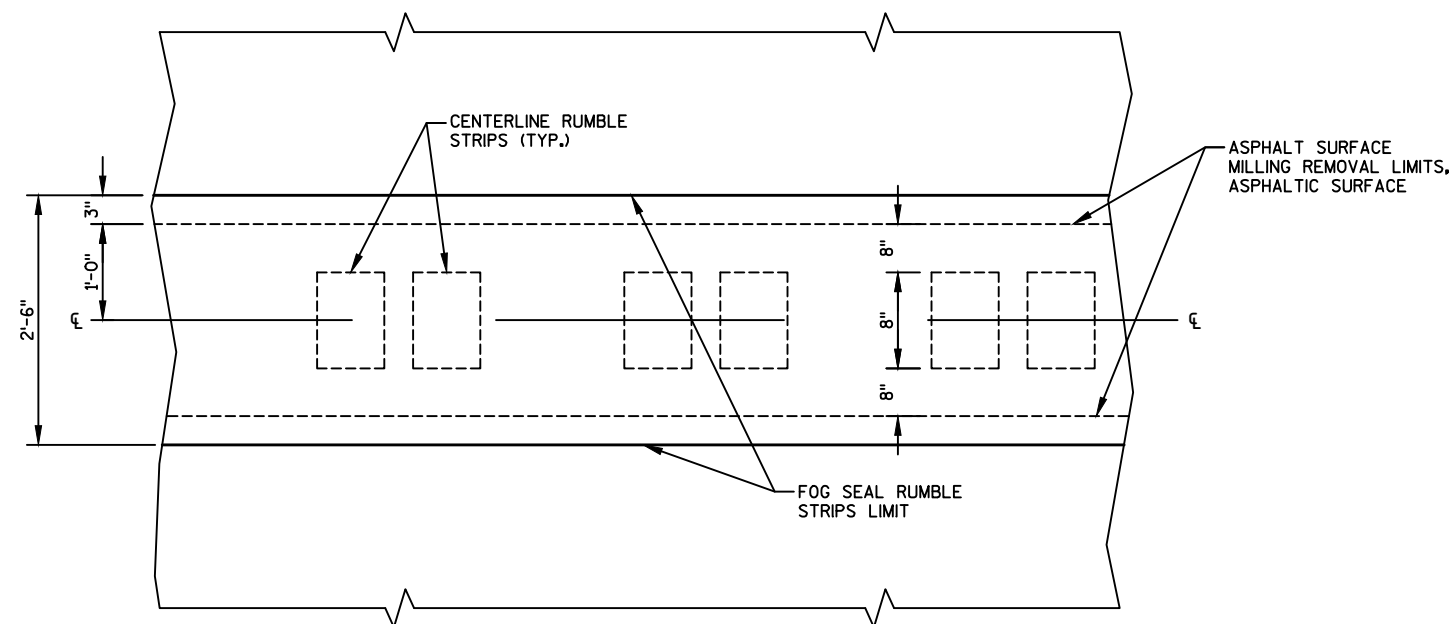
PLAN VIEW
CENTERLINE ASPHALTIC SURFACE MILLING LIMITS



SECTION A-A
CROWNED ROADWAY

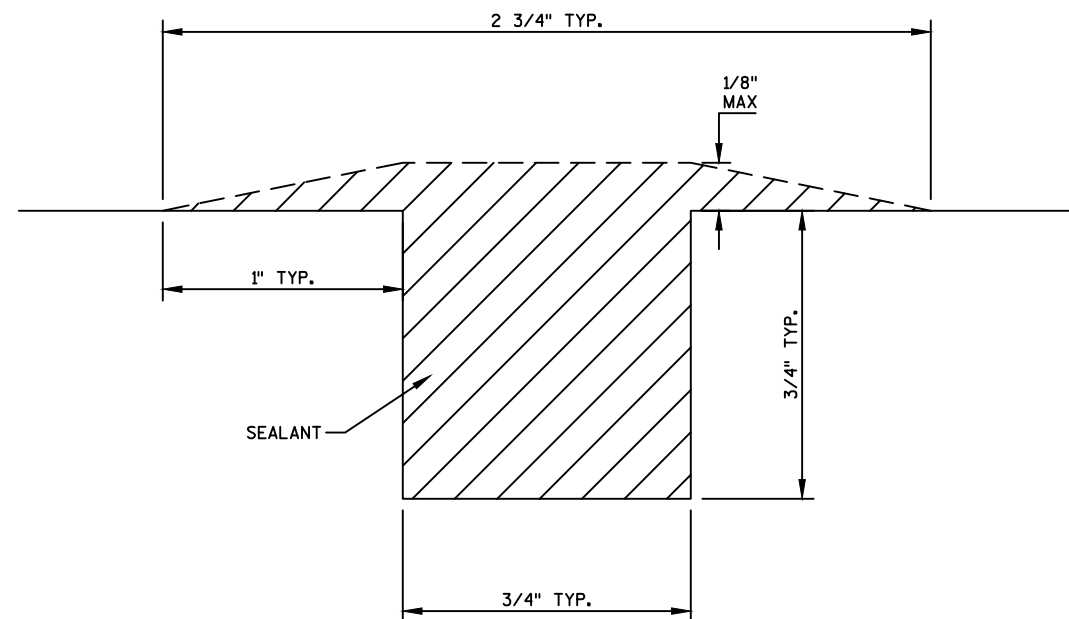


SECTION A-A
SUPERELEVATED ROADWAY

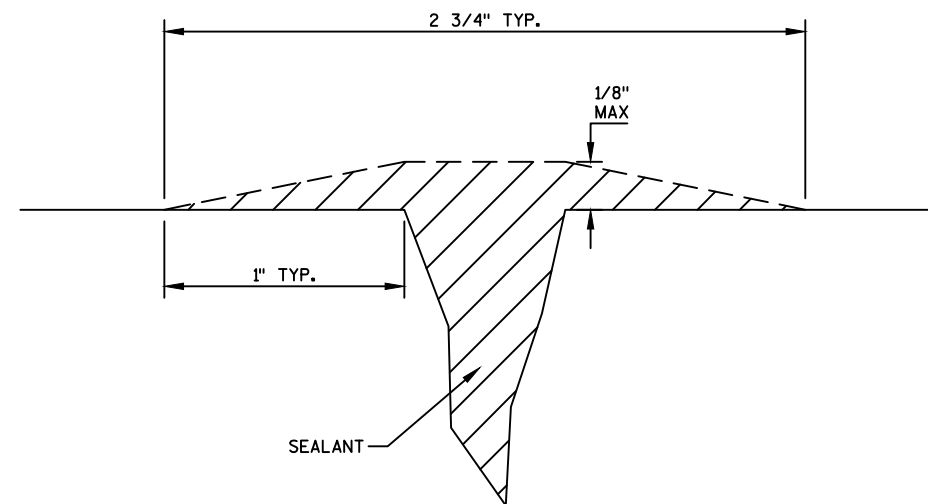


PLAN VIEW
FOG SEAL RUMBLE STRIPS LIMIT
FOR USE IN AREAS WHERE ASPHALTIC SURFACE IS MILLED AND
CENTERLINE RUMBLE STRIPS ARE REPLACED

NOTE:
PLACE GAPS IN FOG SEAL RUMBLE STRIPS WHERE GAPS EXIST IN CENTERLINE RUMBLE STRIPS FOR INTERSECTIONS, BRIDGES, DRIVEWAYS, AND RAILROADS AS SHOWN ON SDD "2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING".



SECTION FOR ROUT AND SEAL DETAIL



SECTION FOR CLEAN AND SEAL DETAIL







SEALING ASPHALTIC PAVEMENT CENTERLINE CRACKS DETAIL

LEGEND

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE "ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

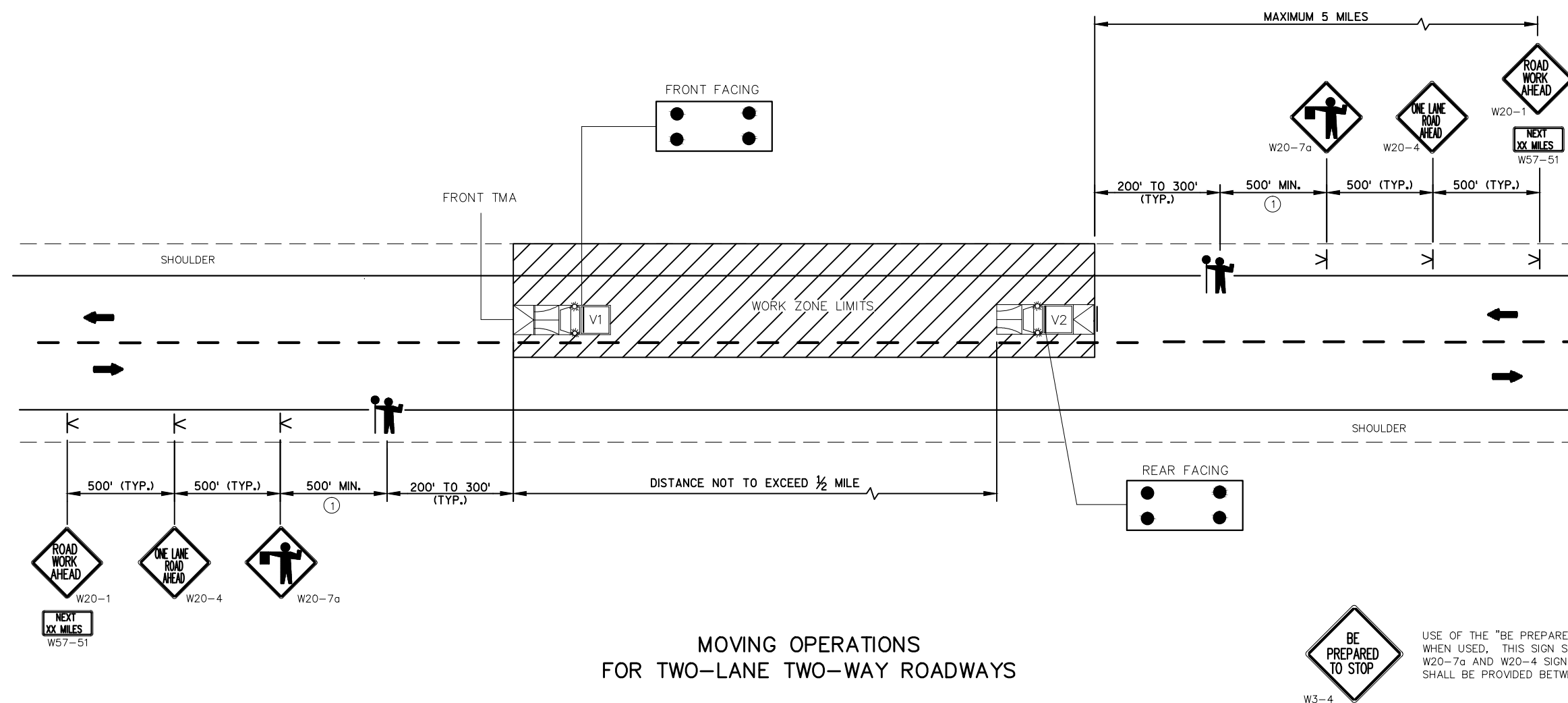
THIS DRAWING SHALL BE USED FOR CENTERLINE MILLING OF RUMBLE STRIPS AND FOG SEAL RUMBLE STRIPS.

① FOR MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY TWO MILE INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

V1	LEAD VEHICLE
V2	TRAIL VEHICLE WITH TMA
	TMA TRUCK-MOUNTED ATTENUATOR
	SIGN ON PORTABLE SUPPORT
	DIRECTION OF TRAVEL
	FLASHING ARROW PANEL (CAUTION)
	(FLAGGER STATION) FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
	WORK AREA

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE AND OTHER FACTORS.

IF THERE IS A SIDE ROAD INTERSECTION BETWEEN THE FLAGGER STATIONS PROVIDE "ROAD WORK AHEAD" SIGNS ON THE SIDE ROAD AS APPROVED BY THE ENGINEER.



STH 73 WEST OF STH 13 - SEGMENT ID 10237 (WOOD COUNTY)

SEGMENT ID	STH	SECTION CORNER LABEL	SECTION/ TOWN/ RANGE	SECTION CORNER TYPE	CORNER MARKER TYPE	APPROX. OFFSET FROM C/L	NOTES
10237	73	1	8/21N/6E	1/4 SECTION	PK NAIL	+/- 3' S	
10237	73	2	7/21N/6E	SECTION	CG SPIKE	+/- 2' S	ALONG C/L YOUNG ST
10237	73	3	7/21N/6E	1/4 SECTION	CG SPIKE	+/- 2' S	
10237	73	4	7/21N/6E	SECTION	CG SPIKE	+/- 5' S	ALONG C/L RANGE LINE RD
10237	73	5	12/21N/5E	1/4 SECTION	BERNTSEN NAIL	+/- 3' S	
10237	73	6	11/21N/5E	SECTION	PK NAIL	+/- 0'	
10237	73	7	11/21N/5E	1/4 SECTION	PK NAIL	+/- 2' S	+/- 28' E OF C/L PINE ST

NOTES:

FOR THE PURPOSES OF THIS PROJECT, THE TERM SECTION CORNER MEANS THE PUBLIC LAND SURVEY SYSTEM (PLSS) CORNERS INCLUDING SECTION CORNERS, ¼ CORNERS, AND CENTER OF SECTIONS (CTR SECTION).

LOCATE, PROTECT, AND PRESERVE ALL KNOWN SECTION CORNERS LOCATED ON OR NEAR THE CENTERLINE WITHIN THE PROPOSED CRACK FILLING (ROUT & SEAL) OR REMOVING ASPHALTIC SURFACE MILLING SEGMENTS.

LOCATIONS OF SECTION CORNERS PROVIDED IN THE PLANS ARE FOR INFORMATION PURPOSES ONLY AND SHOULD NOT BE TAKEN TO BE ALL INCLUSIVE. SEE SPECIAL PROVISIONS ARTICLE, NOTICE TO CONTRACTOR - PERPETUATION OF SECTION CORNERS - PROTECTING AND RESTORING, FOR ADDITIONAL INFORMATION RELATING TO SECTION CORNERS.

PLSS TIE SHEETS AND COORDINATES OF VARIOUS SECTION CORNERS ARE AVAILABLE FROM THE ENGINEER UPON REQUEST.

USH 45 NORTH OF STH 54 - SEGMENT ID 11312 (WAUPACA COUNTY)

SEGMENT ID	USH	SECTION CORNER LABEL	SECTION/ TOWN/ RANGE	SECTION CORNER TYPE	CORNER MARKER TYPE	APPROX. OFFSET FROM C/L	NOTES
11312	45	8	1/23N/14E	CTR SECTION	STEEL NAIL	+/- 0'	ALONG C/L POEHLMAN RD
11312	45	9	36/24N/14E	1/4 SECTION	UNKNOWN	+/- 0'	ALONG C/L FRITZGERALD RD
11312	45	10	36/24N/14E	CTR SECTION	STEEL NAIL	+/- 0'	ALONG C/L ELM TREE RD
11312	45	11	25/24N/14E	1/4 SECTION	STEEL NAIL	+/- 0'	ALONG C/L BLUEBERRY RD
11312	45	12	25/24N/14E	CTR SECTION	UNKNOWN	+/- 0'	

STH 22 SOUTH OF STH 29 - SEGMENT ID 11987 (WAUPACA & SHAWANO COUNTIES)

SEGMENT ID	STH	SECTION CORNER LABEL	SECTION/ TOWN/ RANGE	SECTION CORNER TYPE	CORNER MARKER TYPE	APPROX. OFFSET FROM C/L	NOTES
11987	22	13	5/25N/15E	SECTION	SURVEY NAIL	+/- 0'	ALONG WAUPACA/SHAWANO CO LINE
11987	22	14	21/26N/15E	1/4 SECTION	SURVEY NAIL	+/- 1' W	+/- 1' N C/L EVERGREEN RD
11987	22	15	21/26N/15E	CTR SECTION	SURVEY NAIL	+/- 5' W	+/- 2' N C/L BELLE PLAINE AVE
11987	22	16	16/26N/15E	1/4 SECTION	SURVEY NAIL	+/- 12' E	IN LINE WITH ADJACENT FENCE LINE
11987	22	17	16/26N/15E	CTR SECTION	SURVEY NAIL	+/- 7' W	

USH 8 EAST OF STH 17 - SEGMENT ID 14347 (ONEIDA COUNTY)

SEGMENT ID	USH	SECTION CORNER LABEL	SECTION/ TOWN/ RANGE	SECTION CORNER TYPE	CORNER MARKER TYPE	APPROX. OFFSET FROM C/L	NOTES
14347	8	18	15/36N/9E	N/A	N/A	UNKNOWN	SURVEY CONTROL POINT
14347	8	19	15/36N/9E	N/A	N/A	UNKNOWN	SURVEY CONTROL POINT
14347	8	20	27/36N/10E	N/A	N/A	UNKNOWN	SURVEY CONTROL POINT
14347	8	21	25/36N/10E	1/4 SECTION	1" IRON PIPE	UNKNOWN	BURIED, OLD HWY 8 / LEITH RD
14347	8	22	25/36N/10E	CTR SECTION	2 1/2" IP/BRASS CAP	UNKNOWN	SOUTH OF C/L

STH 17 NORTH OF STH 64 - SEGMENT ID 14351 (LINCOLN & ONEIDA COUNTIES)

SEGMENT ID	STH	SECTION CORNER LABEL	SECTION/ TOWN/ RANGE	SECTION CORNER TYPE	CORNER MARKER TYPE	APPROX. OFFSET FROM C/L	NOTES
14351	17	23	5/31N/7E	CTR SECTION	UNKNOWN	UNKNOWN	
14351	17	24	6/32N/8E	SECTION	BERNSTEN MON	+/- 2' W	ALONG C/L CTH J
14351	17	25	32/33N/8E	CTR SECTION	UNKNOWN	UNKNOWN	
14351	17	26	36/36N/8E	SECTION	PK NAIL	+/- 8' E	ALONG LINCOLN/ONEIDA CO LINE
14351	17	27	24/36N/8E	1/4 SECTION	UNKNOWN	UNKNOWN	

USH 51 NORTH OF USH 8 - SEGMENT ID 14423 (ONEIDA COUNTY)

SEGMENT ID	USH	SECTION CORNER LABEL	SECTION/ TOWN/ RANGE	SECTION CORNER TYPE	CORNER MARKER TYPE	APPROX. OFFSET FROM C/L	NOTES
14423	51	28	26/37N/6E	1/4 SECTION	SURVEY NAIL	+/- 10' E	ALONG C/L FERNWOOD RD
14423	51	29	23/37N/6E	1/4 SECTION	SURVEY NAIL	+/- 1' W	+/- 5' N OF C/L ROCKY RUN RD
14423	51	30	23/37N/6E	SECTION	SURVEY NAIL	+/- 1' E	

STH 17 NORTH OF USH 8 - SEGMENT ID 14429 (ONEIDA COUNTY)

SEGMENT ID	STH	SECTION CORNER LABEL	SECTION/ TOWN/ RANGE	SECTION CORNER TYPE	CORNER MARKER TYPE	APPROX. OFFSET FROM C/L	NOTES
14429	17	31	15/37N/9E	SECTION	1" IRON PIPE	UNKNOWN	
14429	17	32	15/37N/9E	CTR SECTION	UNKNOWN	UNKNOWN	
14429	17	33	10/37N/9E	1/4 SECTION	PK NAIL	+/- 10' W	
14429	17	34	10/37N/9E	N/A	N/A	UNKNOWN	SURVEY CONTROL POINT
14429	17	35	10/37N/9E	SECTION	PK NAIL	+/- 1' W	ALONG C/L CROSS COUNTRY RD
14429	17	36	2/37N/9E	N/A	N/A	UNKNOWN	SURVEY CONTROL POINT
14429	17	37	26/38N/9E	CTR SECTION	UNKNOWN	UNKNOWN	
14429	17	38	23/38N/9E	1/4 SECTION	PK NAIL	+/- 4' W	
14429	17	39	23/38N/9E	CTR SECTION	UNKNOWN	UNKNOWN	

STH 17 NORTH OF CTH A - SEGMENT ID 14555 (VILAS COUNTY)

SEGMENT ID	STH	SECTION CORNER LABEL	SECTION/ TOWN/ RANGE	SECTION CORNER TYPE	CORNER MARKER TYPE	APPROX. OFFSET FROM C/L	NOTES
14555	17	40	18/39N/10E	CTR SECTION	UNKNOWN	UNKNOWN	
14555	17	41	18/39N/10E	1/4 SECTION	2" IP/BRONZE CAP	UNKNOWN	
14555	17	42	7/39N/10E	CTR SECTION	UNKNOWN	UNKNOWN	
14555	17	43	7/39N/10E	1/4 SECTION	2" IP/BRASS CAP	UNKNOWN	
14555	17	44	6/39N/10E	CTR SECTION	UNKNOWN	UNKNOWN	

STH 32 NORTH OF STH 55 - SEGMENT ID 14443 (FOREST COUNTY)

SEGMENT ID	STH	SECTION CORNER LABEL	SECTION/ TOWN/ RANGE	SECTION CORNER TYPE	CORNER MARKER TYPE	APPROX. OFFSET FROM C/L	NOTES
14443	32	47	13/37N/12E	1/4 SECTION	RR SPIKE	UNKNOWN	
14443	32	48	19/37N/13E	1/4 SECTION	RR SPIKE	+/- 0'	ALONG C/L CTH NN
14443	32	49	19/37N/13E	1/4 SECTION	PK NAIL	+/- 0'	
14443	32	50	29/37N/13E	SECTION	MAG NAIL	+/- 0'	ALONG C/L CTH NN
14443	32	51	20/37N/13E	1/4 SECTION	SURVEY SPIKE	UNKNOWN	+/- 5' N OF S EDGE OF PAVEMENT
14443	32	45	14/37N/12E	1/4 SECTION	RR SPIKE	UNKNOWN	
14443	32	46	14/37N/12E	SECTION	PK NAIL	UNKNOWN	ALONG C/L CTH S

STH 32/USH 45 SOUTH OF STH 70 - SEGMENT ID 14560 (ONEIDA COUNTY)

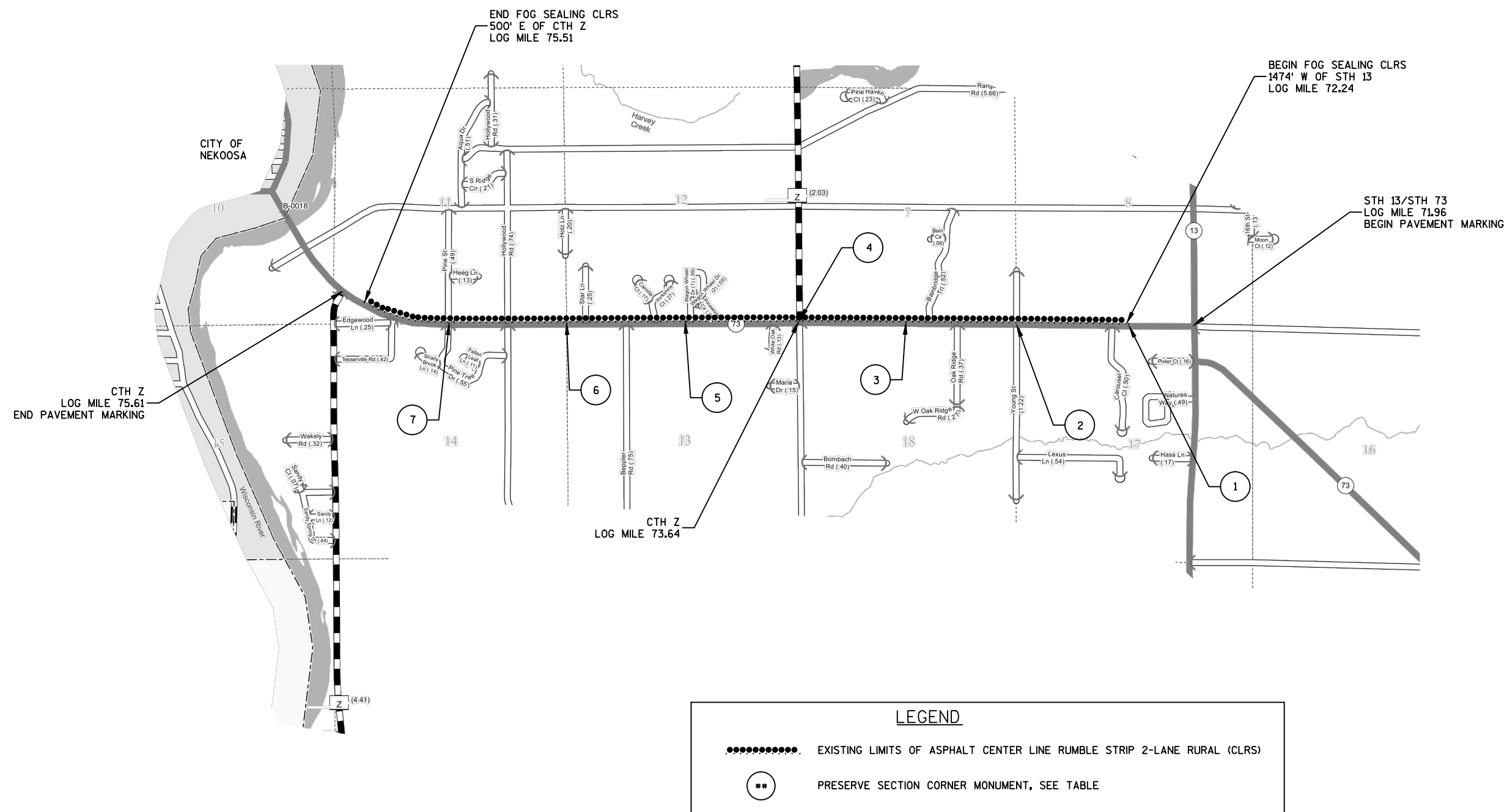
SEGMENT ID	STH	SECTION CORNER LABEL	SECTION/ TOWN/ RANGE	SECTION CORNER TYPE	CORNER MARKER TYPE	APPROX. OFFSET FROM C/L	NOTES
14560	32	52	25/38N/11E	N/A	N/A	UNKNOWN	SURVEY CONTROL POINT
14560	32	53	10/38N/11E	N/A	N/A	UNKNOWN	SURVEY CONTROL POINT

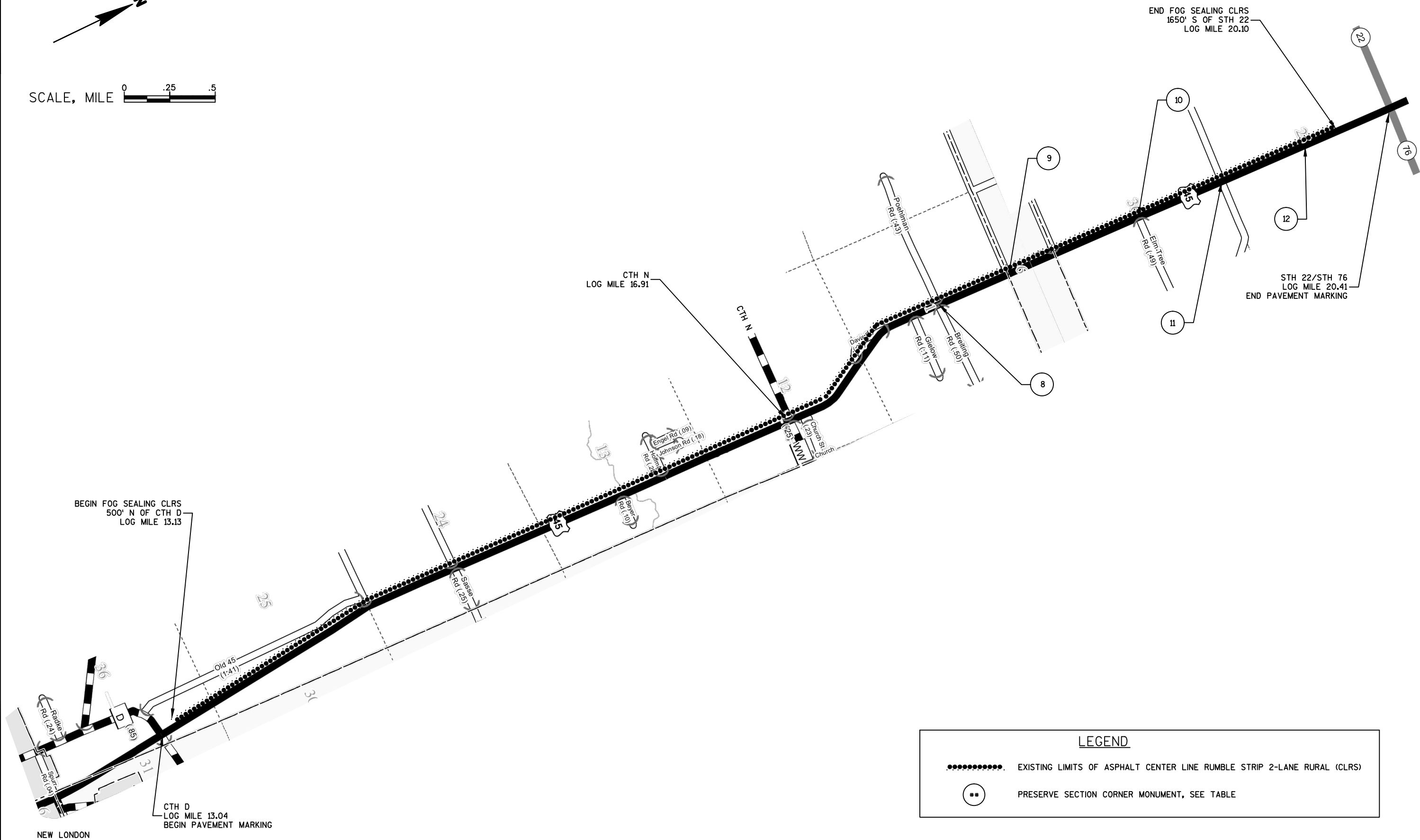
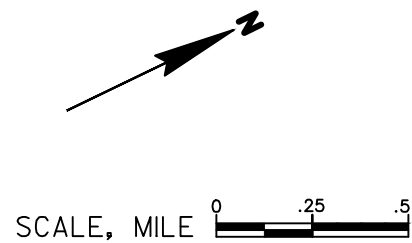
STH 70 WEST OF USH 51 - SEGMENT ID 14571 (PRICE COUNTY)

SEGMENT ID	STH	SECTION CORNER LABEL	SECTION/ TOWN/ RANGE	SECTION CORNER TYPE	CORNER MARKER TYPE	APPROX. OFFSET FROM C/L	NOTES
14571	70	54	3/39N/1E	SECTION	1 1/8" ROD	+/- 0'	
14571	70	55	3/39N/1E	1/4 SECTION	UNKNOWN	UNKNOWN	
14571	70	56	10/39N/1E	SECTION	2" IP/3" BRASS CAP	UNKNOWN	
14571	70	57	11/39N/1E	1/4 SECTION	UNKNOWN	UNKNOWN	
14571	70	58	6/39N/2E	1/4 SECTION	UNKNOWN	UNKNOWN	
14571	70	59	4/39N/2E	SECTION	UNKNOWN	UNKNOWN	
14571	70	60	4/39N/2E	1/4 SECTION	UNKNOWN	UNKNOWN	
14571	70	61	3/39N/2E	SECTION	UNKNOWN	UNKNOWN	
14571	70	62	3/39N/2E	1/4 SECTION	2" IP/3" BRASS CAP	UNKNOWN	
14571	70	63	3/39N/2E	SECTION	UNKNOWN	UNKNOWN	
14571	70	64	2/39N/2E	1/4 SECTION	UNKNOWN	UNKNOWN	
14571	70	65	1/39N/2E	SECTION	UNKNOWN	UNKNOWN	
14571	70	66	1/39N/2E	1/4 SECTION	UNKNOWN	UNKNOWN	
14571	70	67	1/39N/2E	SECTION	UNKNOWN	UNKNOWN	NEAR SMITH RAPIDS RD
14571	70	68	3/39N/3E	SECTION	RR SPIKE	+/- 0'	ALONG C/L SHADY KNOLL RD

STH 139 NORTH OF USH 8 - SEGMENT ID 14585 (FLORENCE COUNTY)

SEGMENT ID	STH	SECTION CORNER LABEL	SECTION/ TOWN/ RANGE	SECTION CORNER TYPE	CORNER MARKER TYPE	APPROX. OFFSET FROM C/L	NOTES
14585	139	69	6/38N/15E	CTR SECTION	UNKNOWN	UNKNOWN	
14585	139	70	6/38N/15E	1/4 SECTION	UNKNOWN	+/- 11'E	
14585	139	71	7/39N/15E	1/4 SECTION	RR SPIKE	UNKNOWN	SET IN PAVEMENT
14585	139	72	6/39N/15E	SECTION	2 1/2" ALUM MON	UNKNOWN	SET BY USFS IN PAVEMENT
14585	139	73	6/39N/15E	1/4 SECTION	RR SPIKE	UNKNOWN	SET BY USFS IN PAVEMENT
14585	139	74	6/39N/15E	SECTION	UNKNOWN	UNKNOWN	
14585	139	75	31/40N/15E	1/4 SECTION	UNKNOWN	UNKNOWN	
14585	139	76	30/40N/15E	SECTION	CONC MON/BRASS	UNKNOWN	SET BY USFS IN PAVEMENT
14585	139	77	30/40N/15E	1/4 SECTION	CONC MON/BRASS	UNKNOWN	SET BY USFS IN PVMT; C/L SHANNON RD
14585	139	78	19/40N/15E	SECTION	CONC MON/BRASS	UNKNOWN	SET BY USFS IN PVMT; C/L TOWN RD





LEGEND

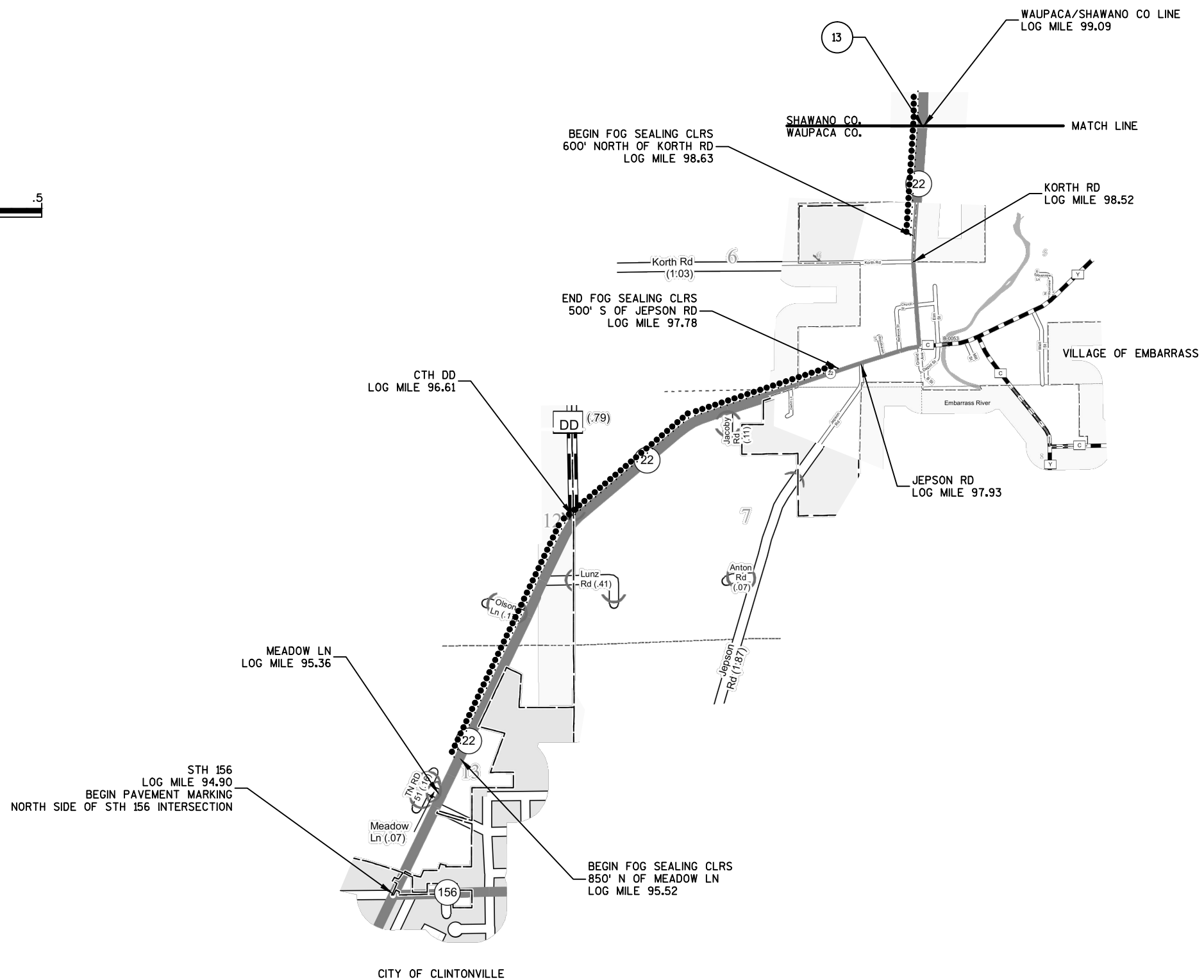
EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)

##

PRESERVE SECTION CORNER MONUMENT, SEE TABLE



SCALE, MILE 

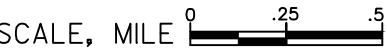


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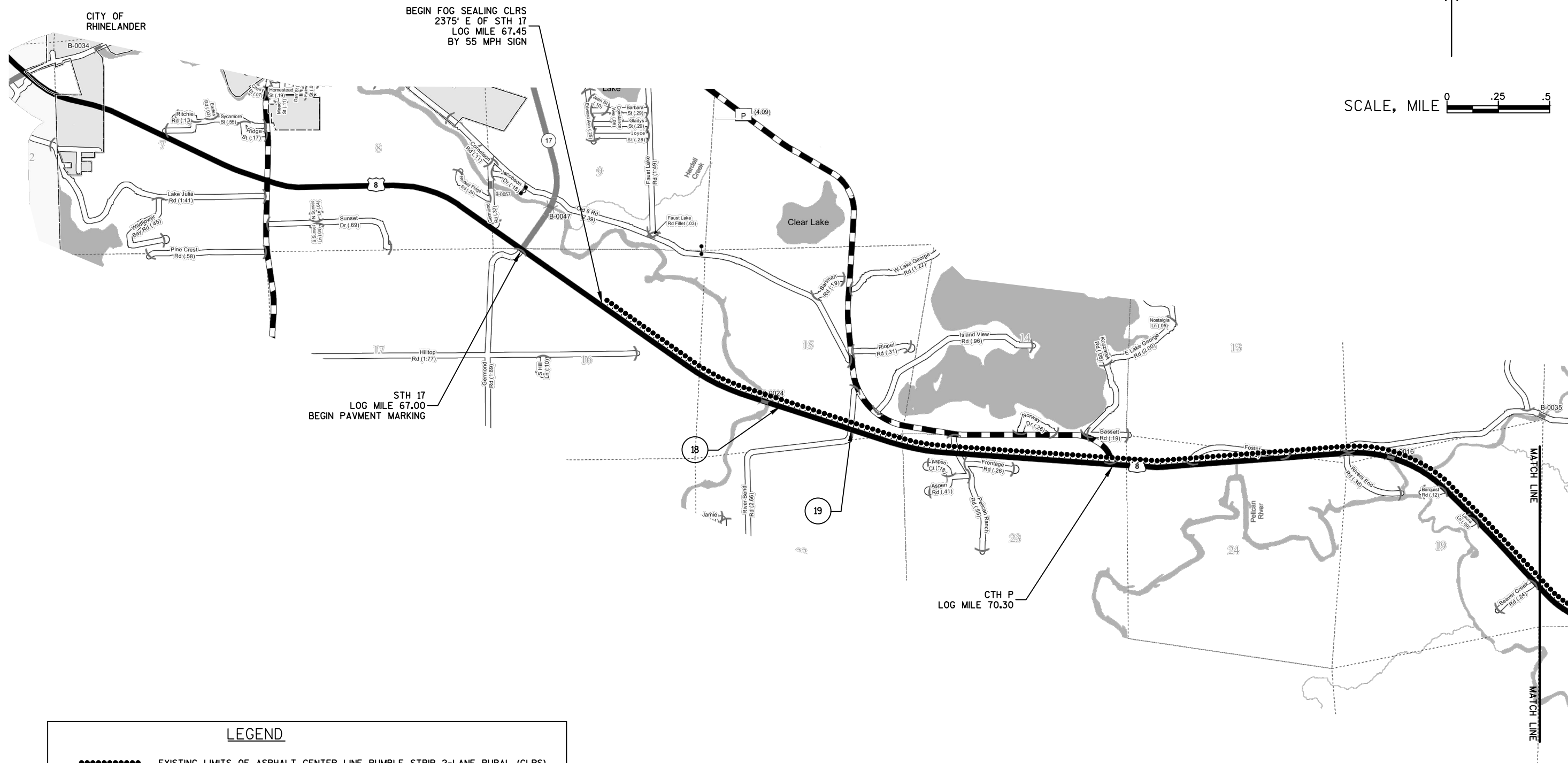
..... EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)



PRESERVE SECTION CORNER MONUMENT, SEE TABLE



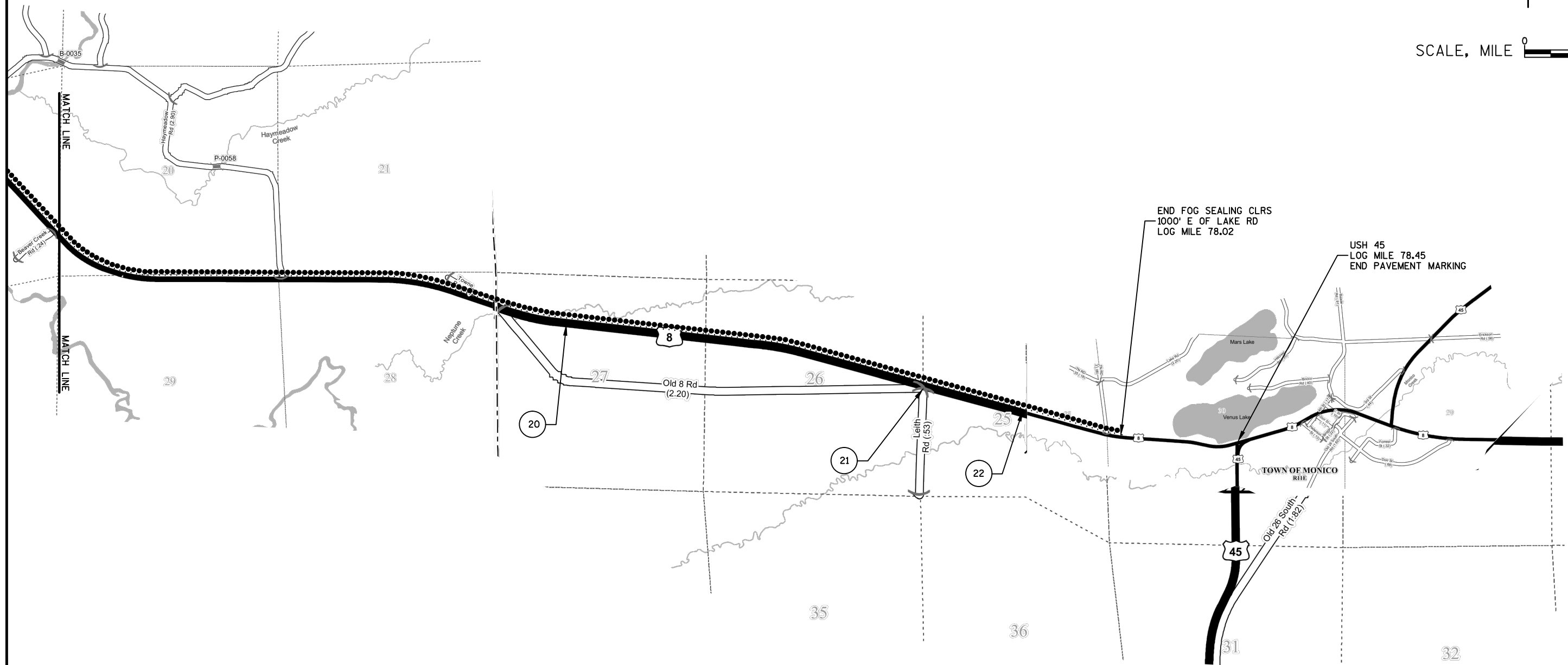
E



LEGEND

..... EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)

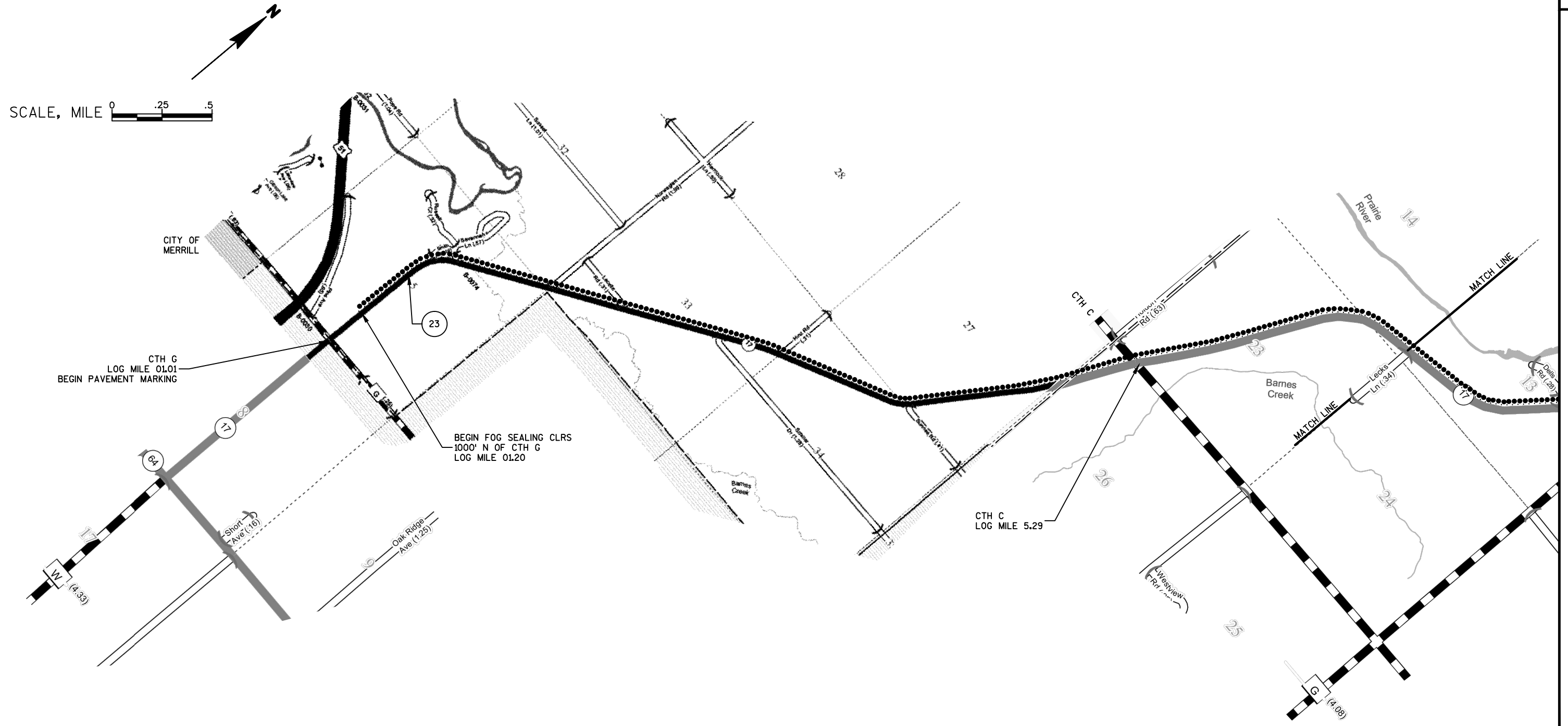
⊞ PRESERVE SECTION CORNER MONUMENT, SEE TABLE

**LEGEND**

..... EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)



PRESERVE SECTION CORNER MONUMENT, SEE TABLE



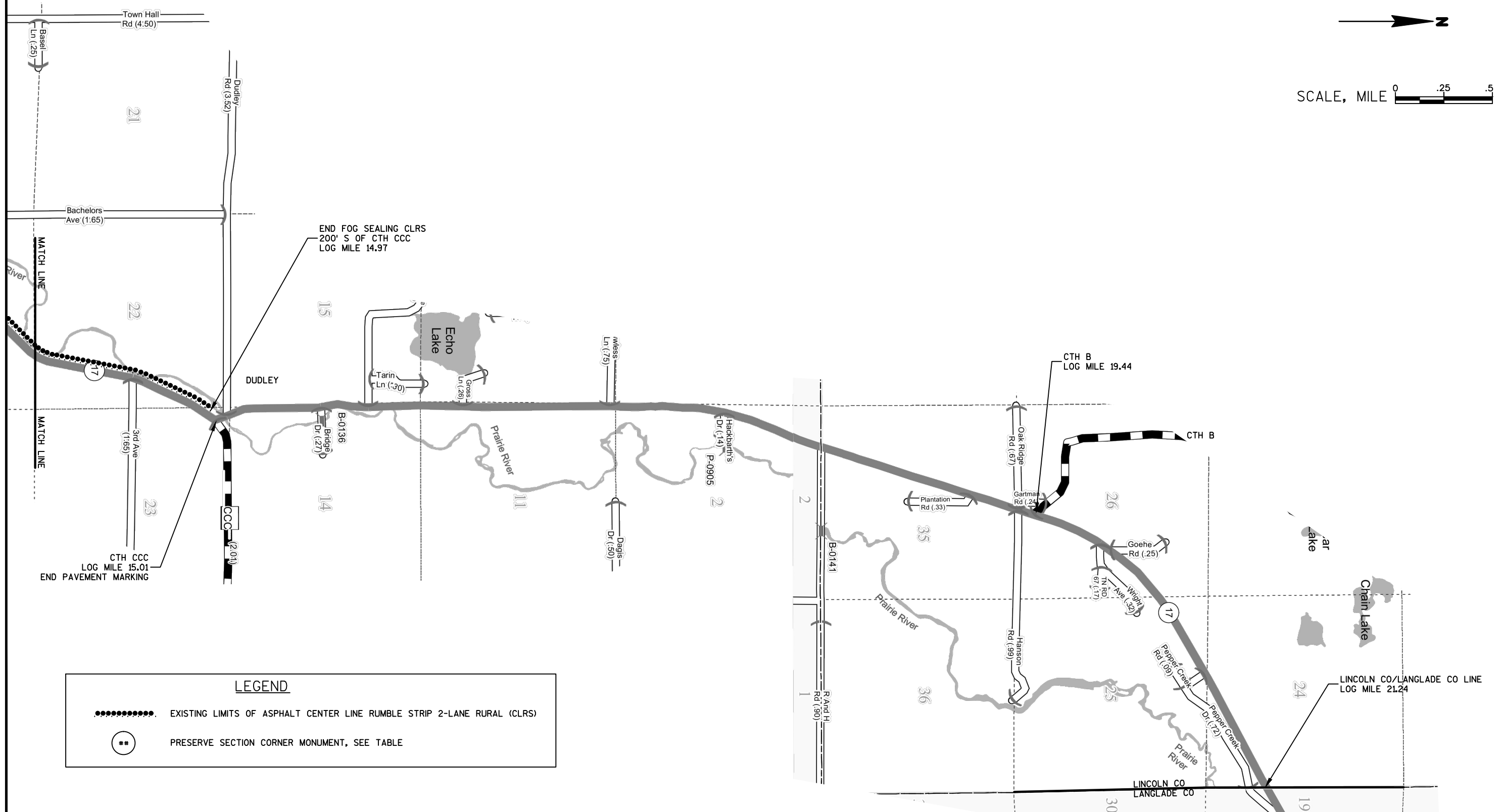
LEGEND

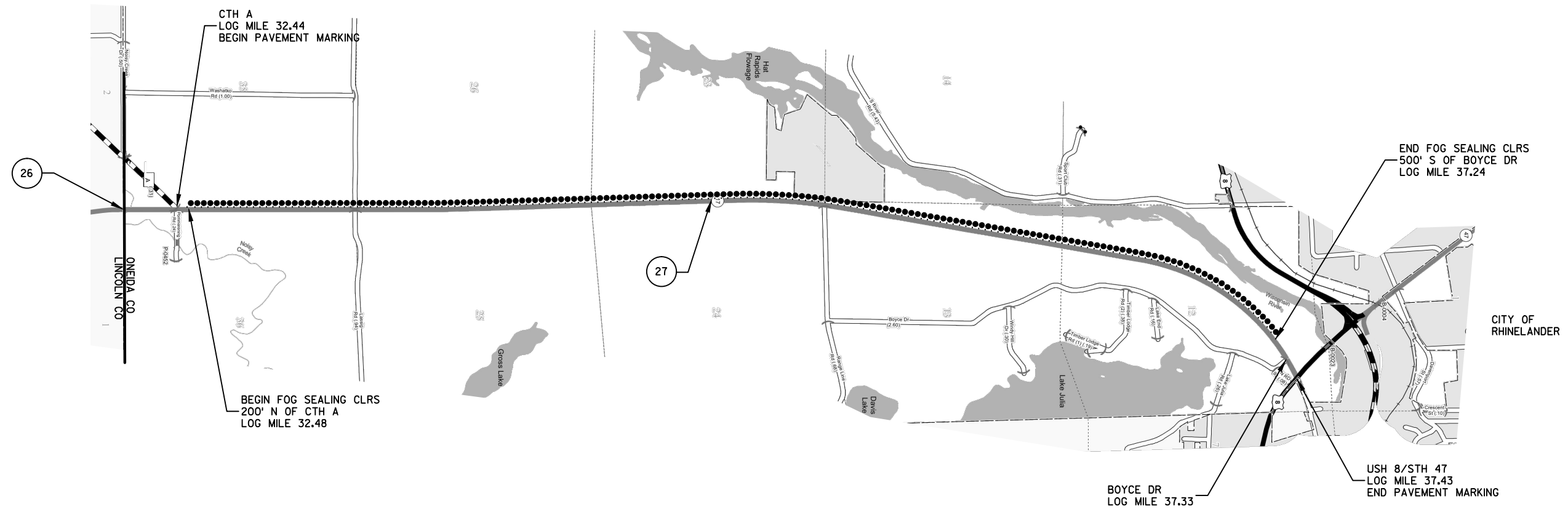
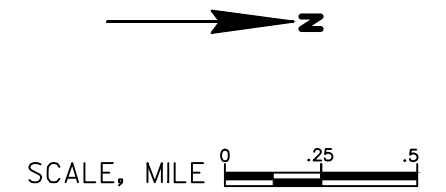
..... EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)



PRESERVE SECTION CORNER MONUMENT, SEE TABLE



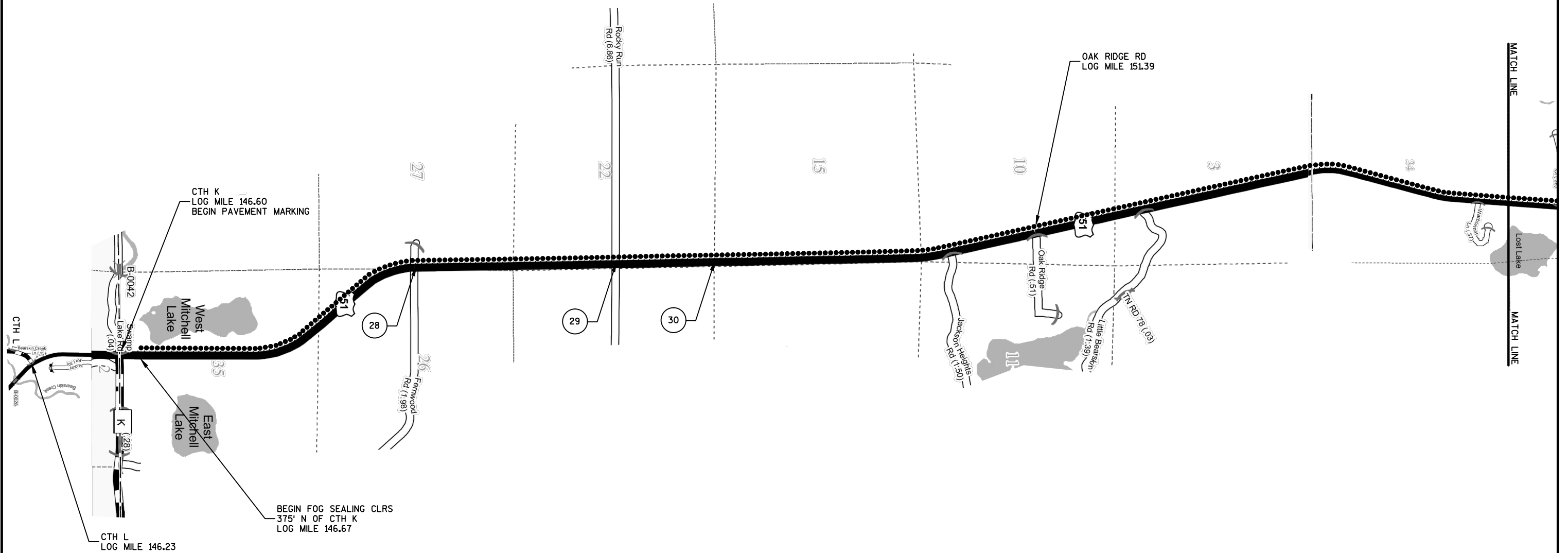
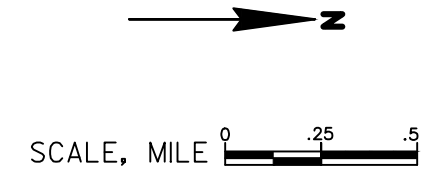




LEGEND

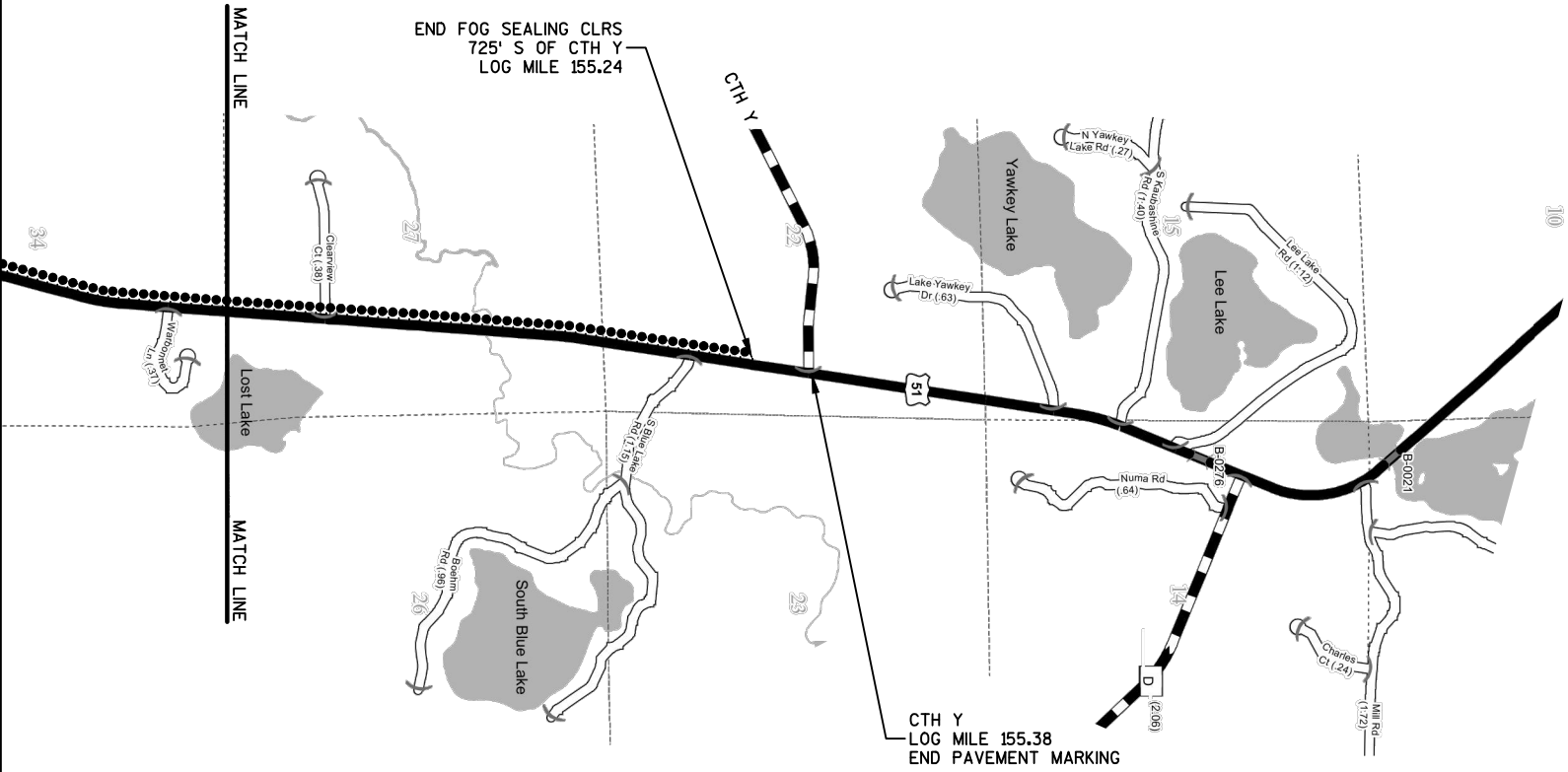
..... EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)

PRESERVE SECTION CORNER MONUMENT, SEE TABLE





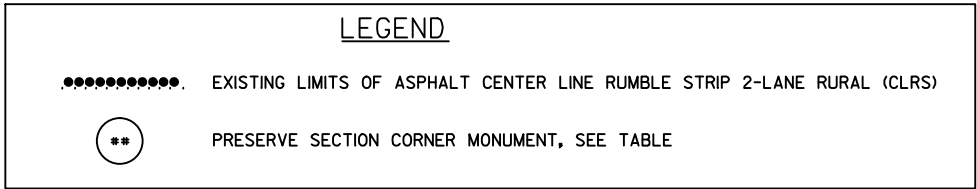
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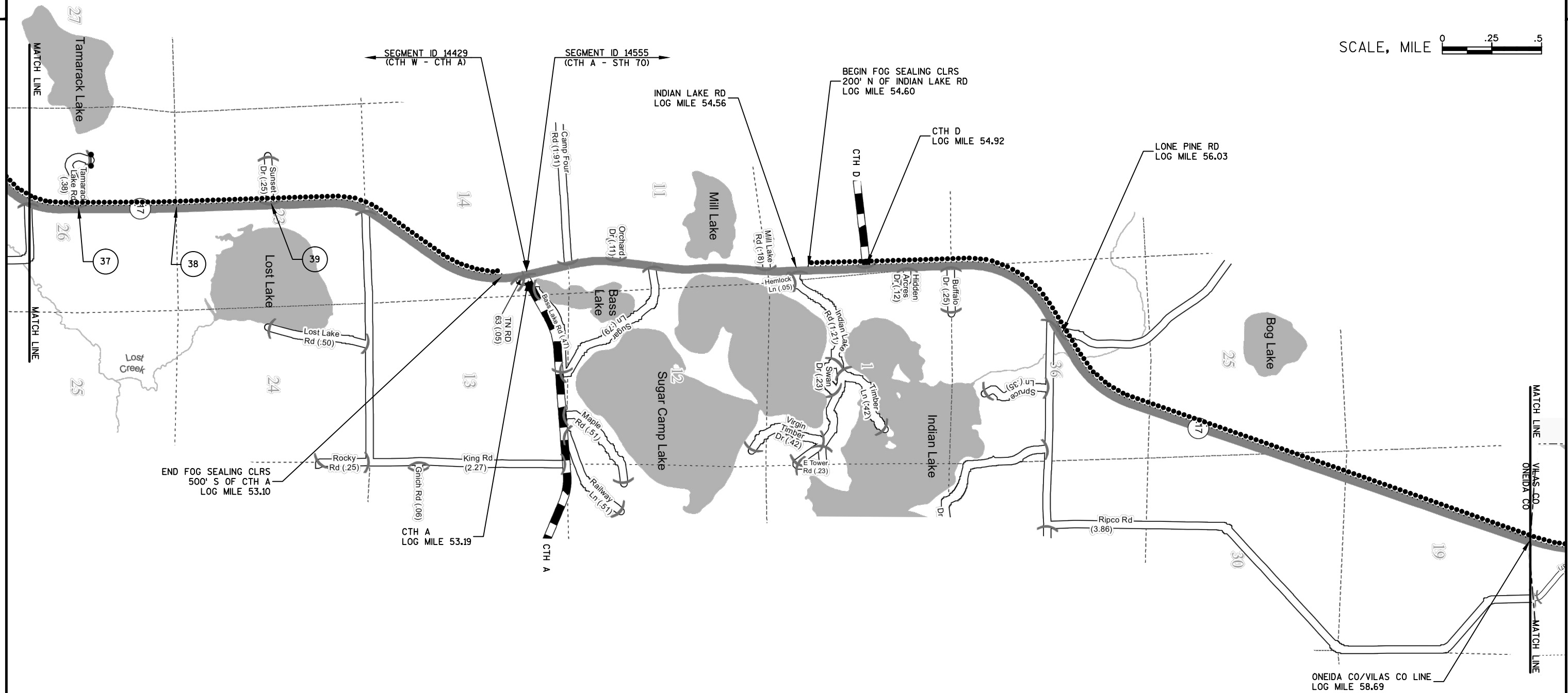


LEGEND

EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)

PRESERVE SECTION CORNER MONUMENT, SEE TABLE



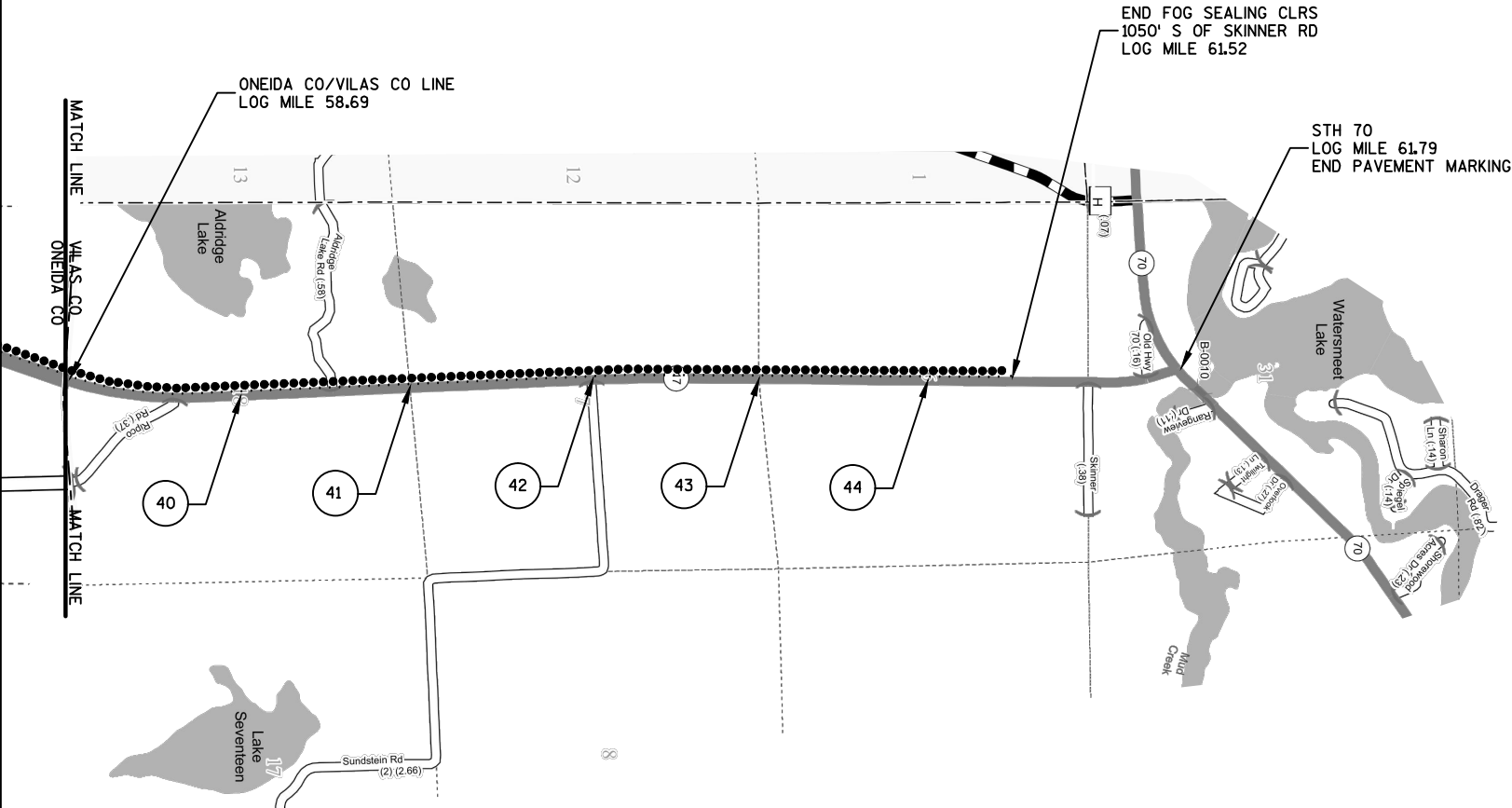
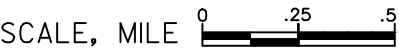


LEGEND

..... EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)



PRESERVE SECTION CORNER MONUMENT, SEE TABLE



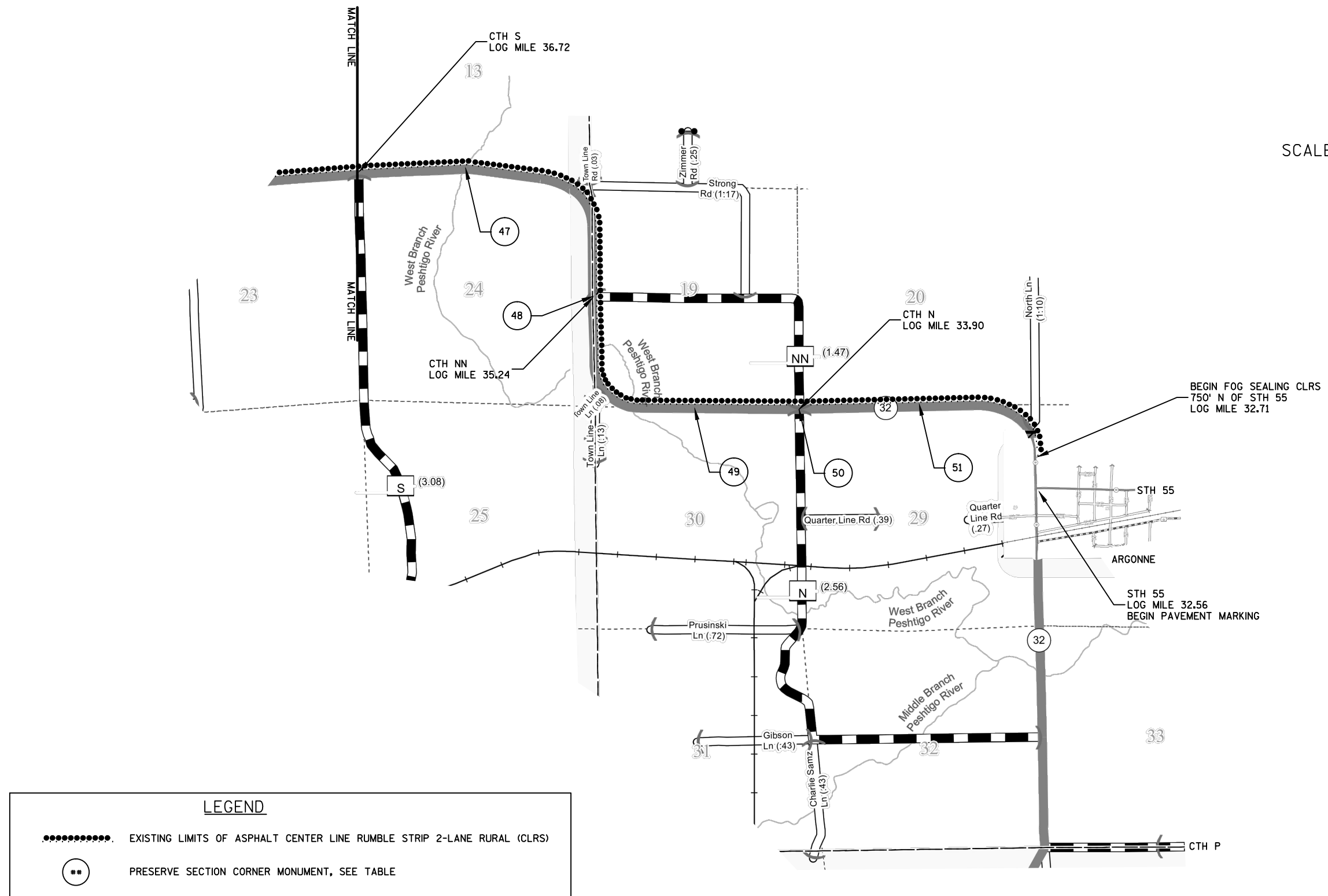
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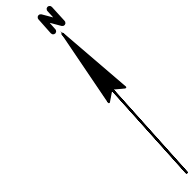
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EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)

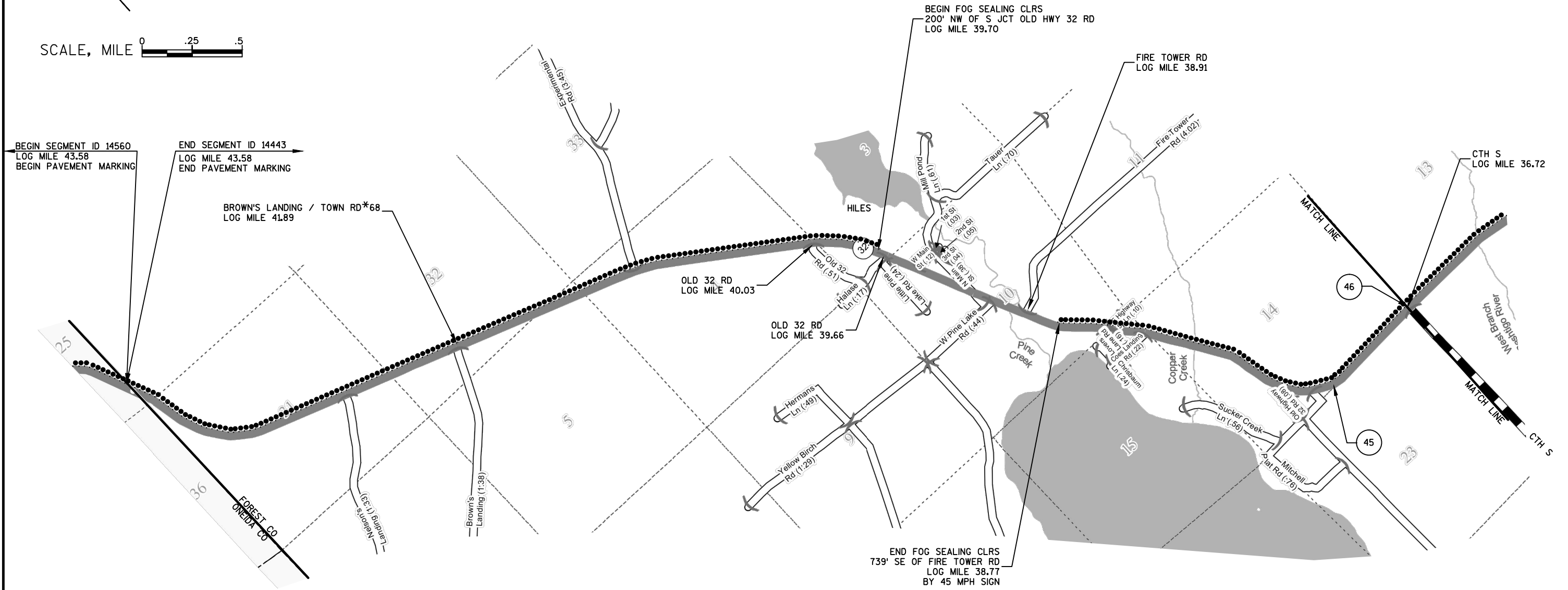
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PRESERVE SECTION CORNER MONUMENT, SEE TABLE





SCALE, MILE 0 .25 .5



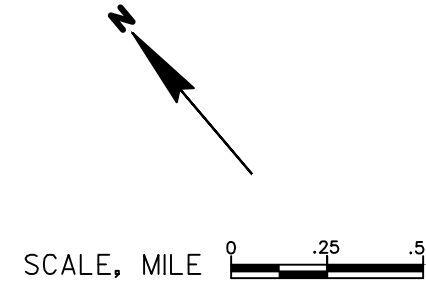
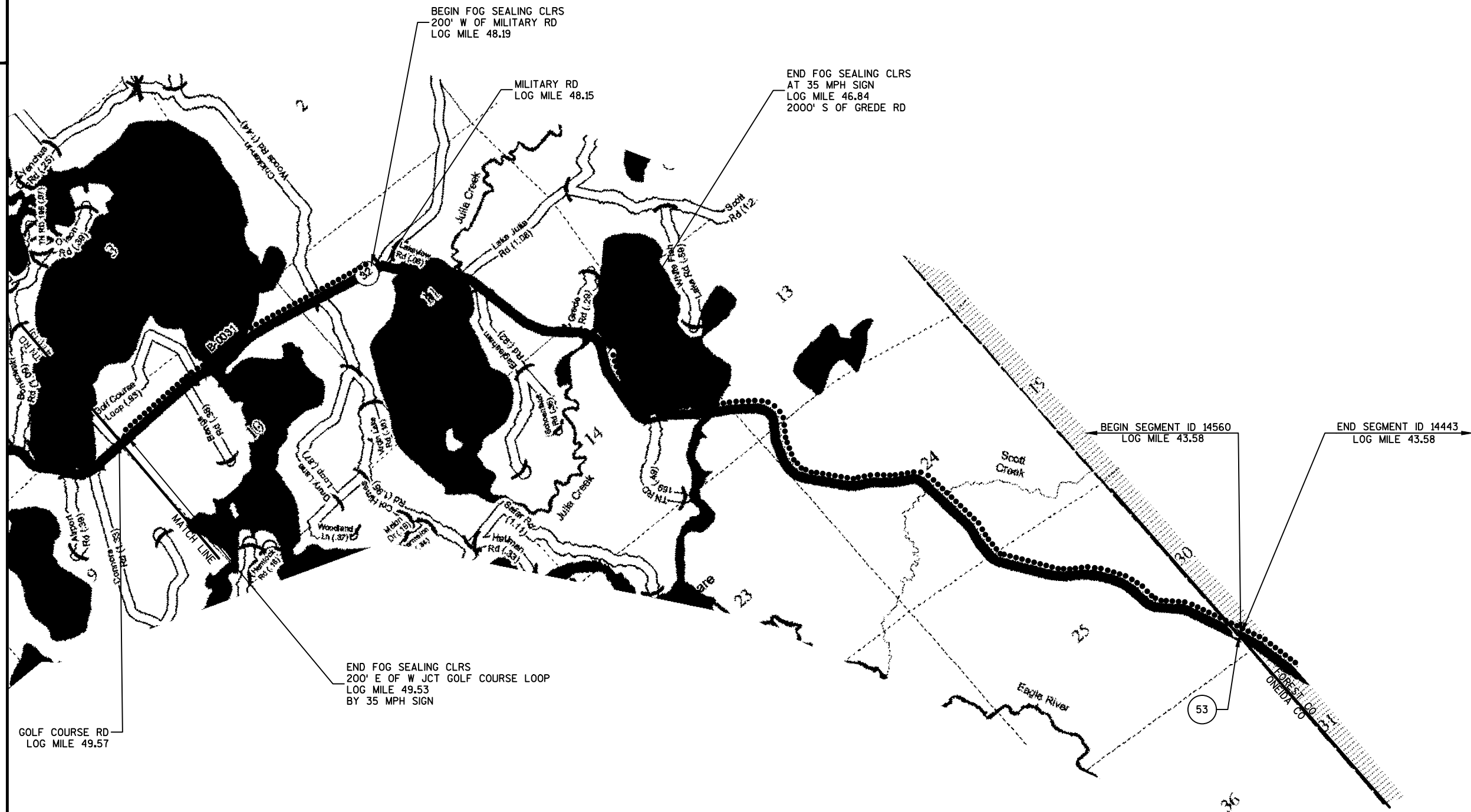
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.....

EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)

(**)

PRESERVE SECTION CORNER MONUMENT, SEE TABLE



LEGEND

..... EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)

(**) PRESERVE SECTION CORNER MONUMENT, SEE TABLE

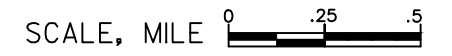
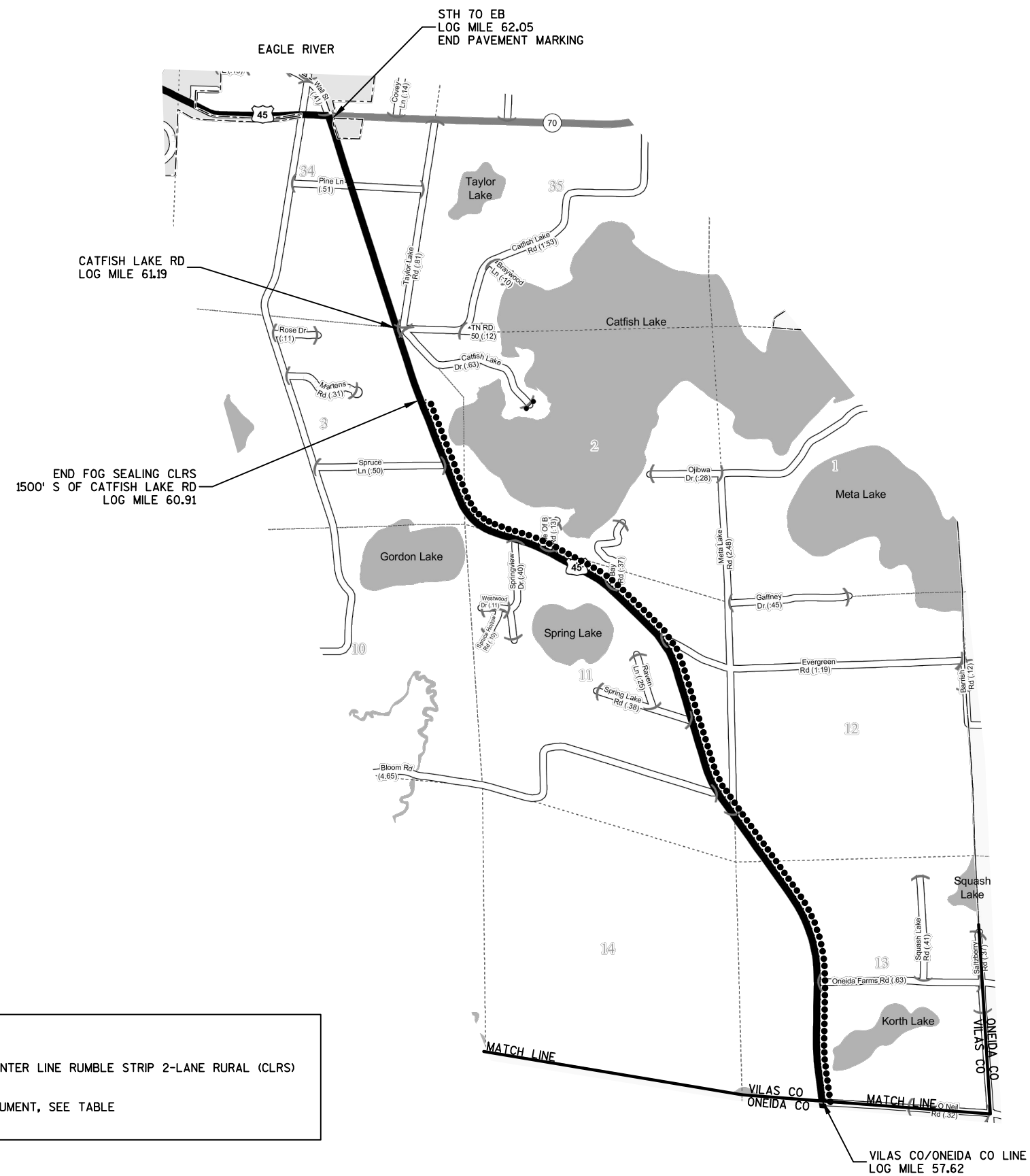


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..... EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)



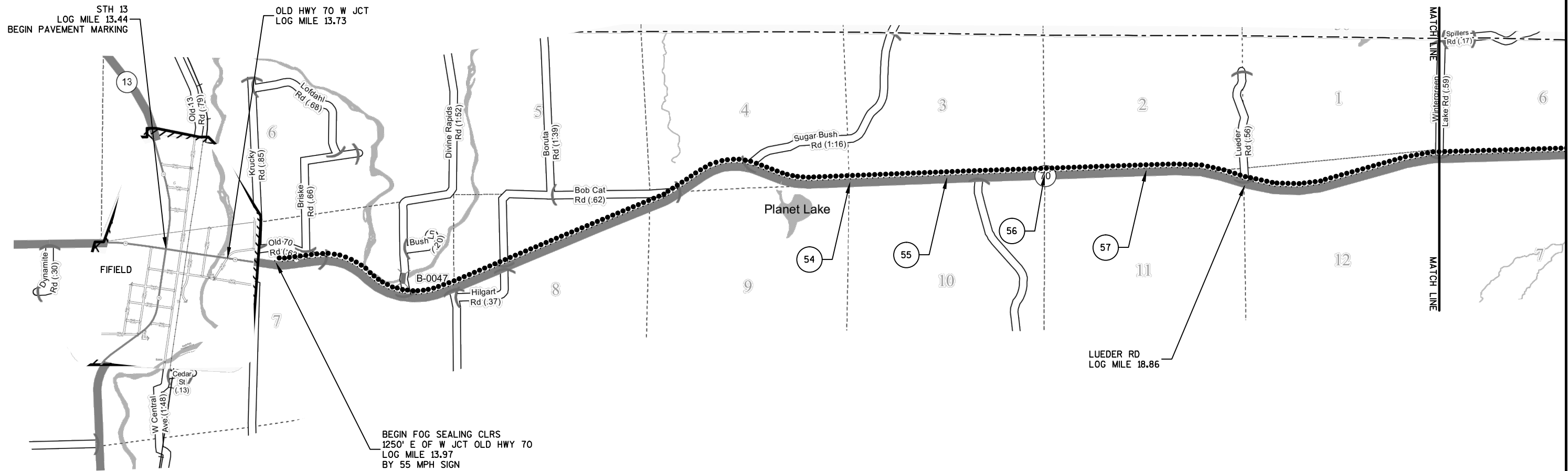
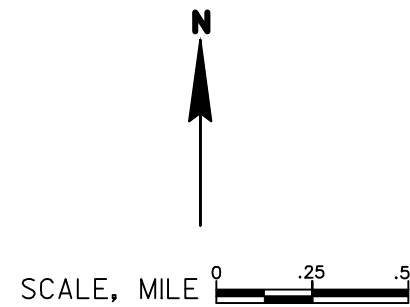
PRESERVE SECTION CORNER MONUMENT, SEE TABLE



LEGEND

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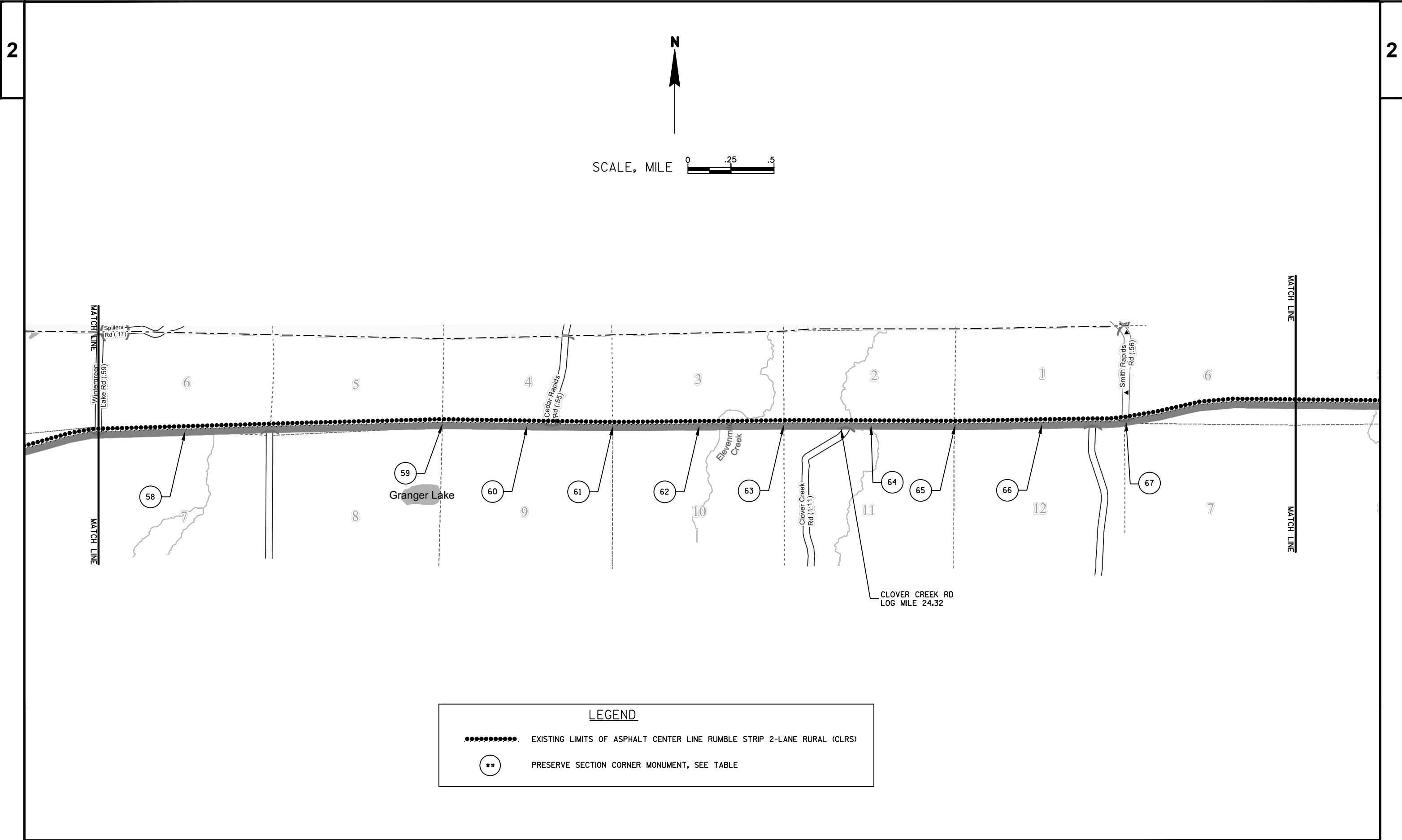
PRESERVE SECTION CORNER MONUMENT, SEE TABLE



LEGEND

EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)

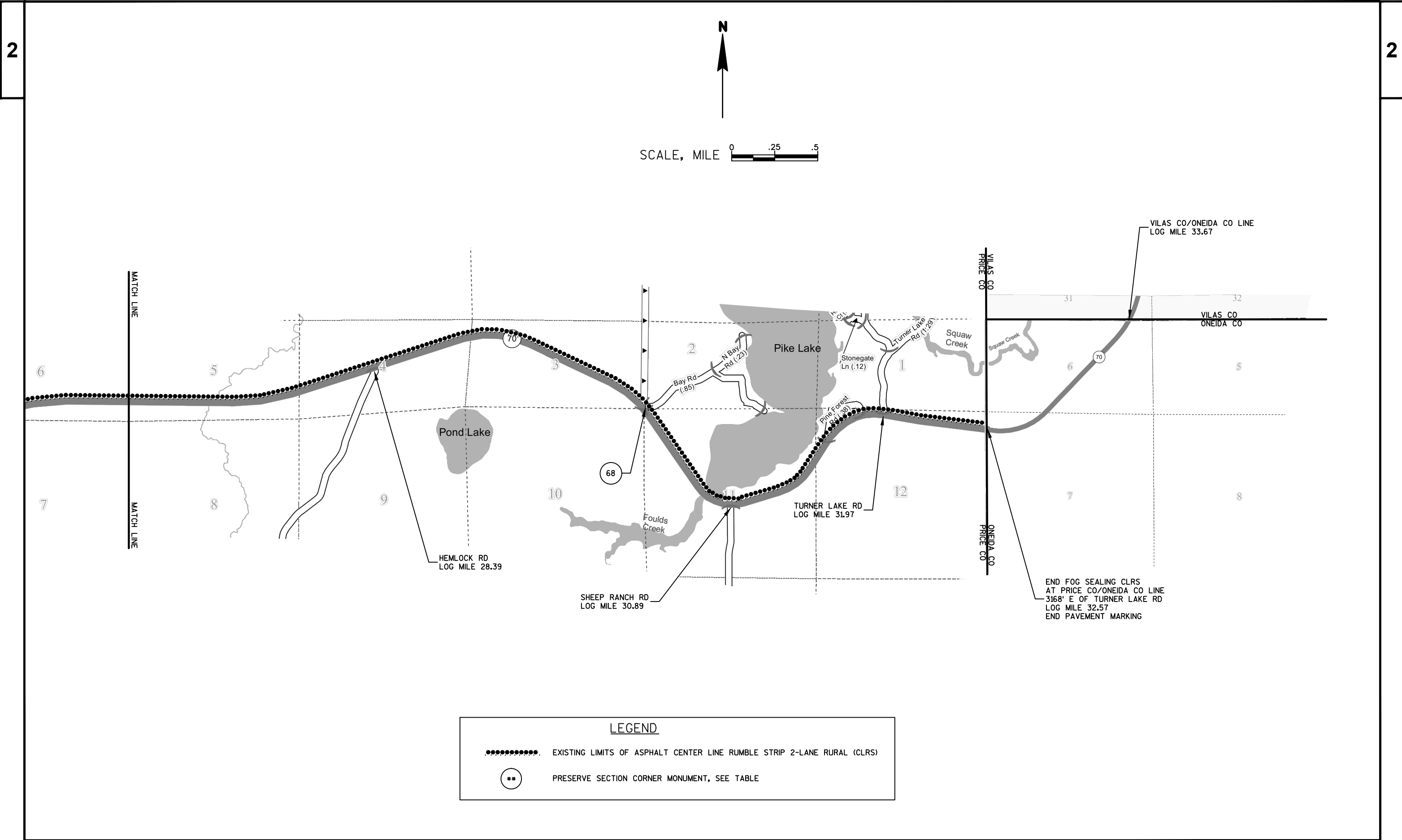
PRESERVE SECTION CORNER MONUMENT, SEE TABLE



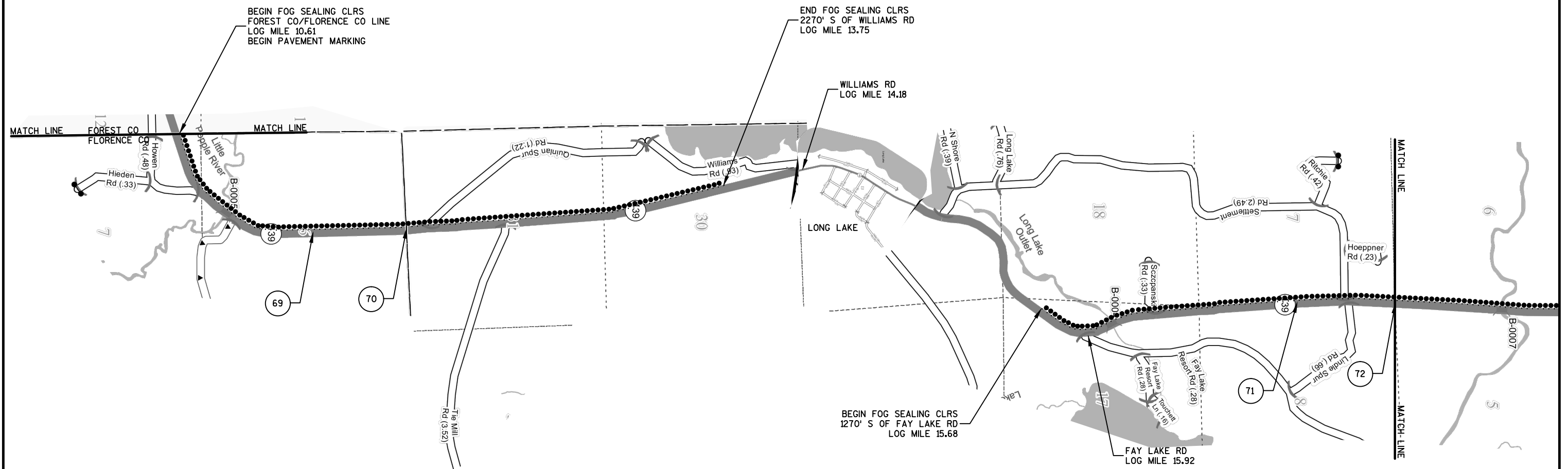
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..... EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)

⊞ PRESERVE SECTION CORNER MONUMENT, SEE TABLE



SCALE, MILE 0 .25 .5



LEGEND

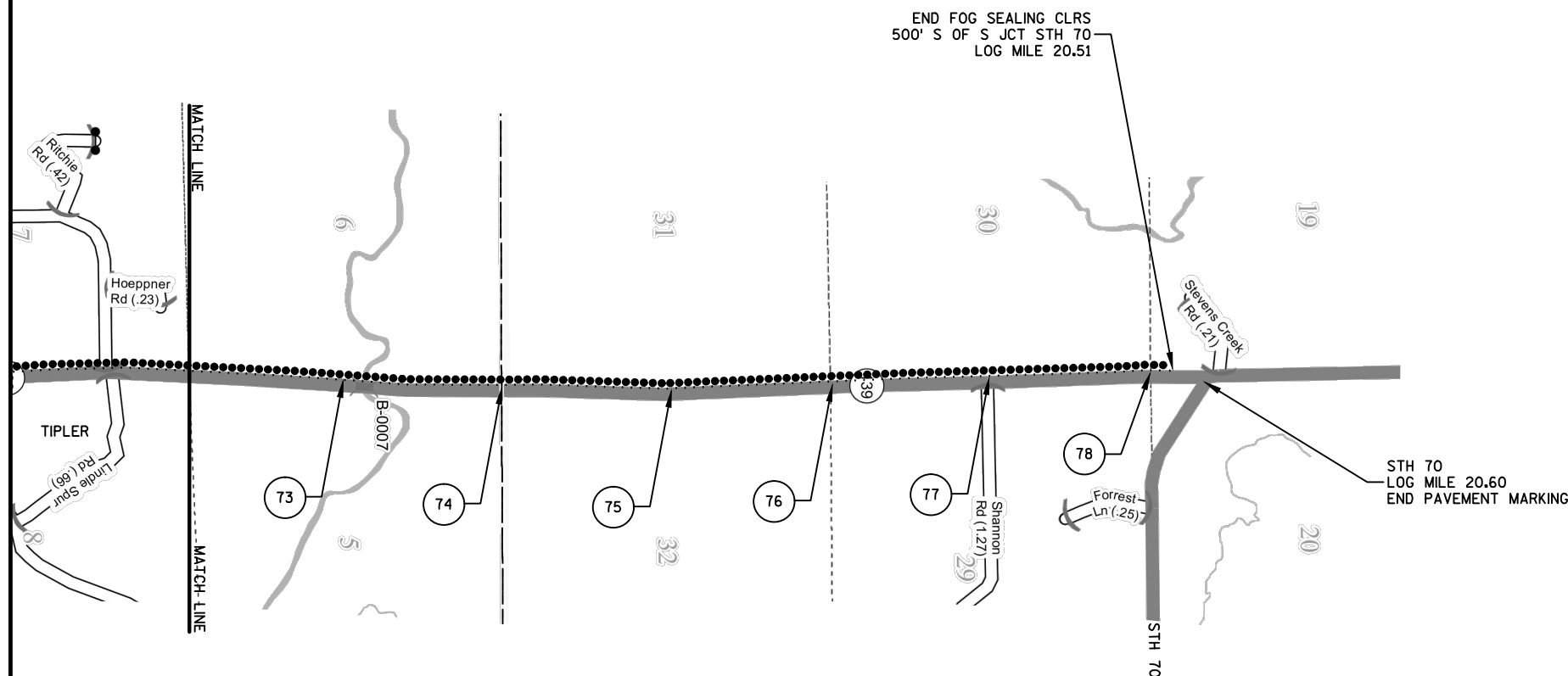
..... EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)



PRESERVE SECTION CORNER MONUMENT, SEE TABLE



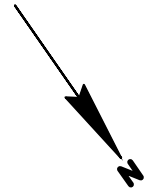
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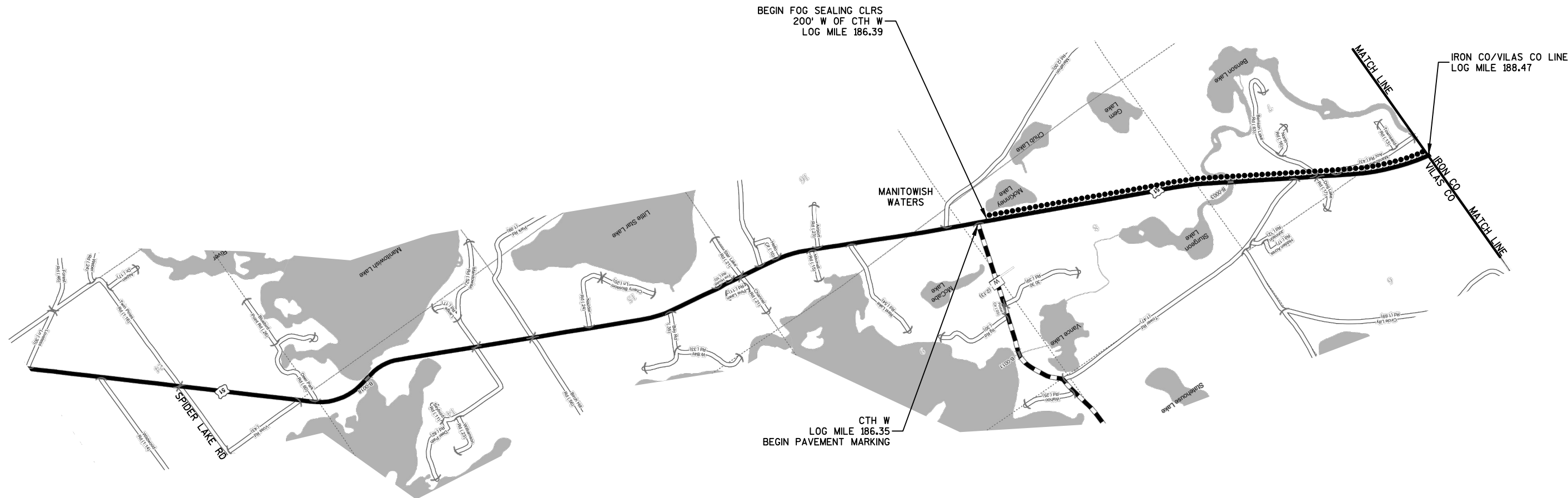
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..... EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)

PRESERVE SECTION CORNER MONUMENT, SEE TABLE



SCALE, MILE 0 .25 .5



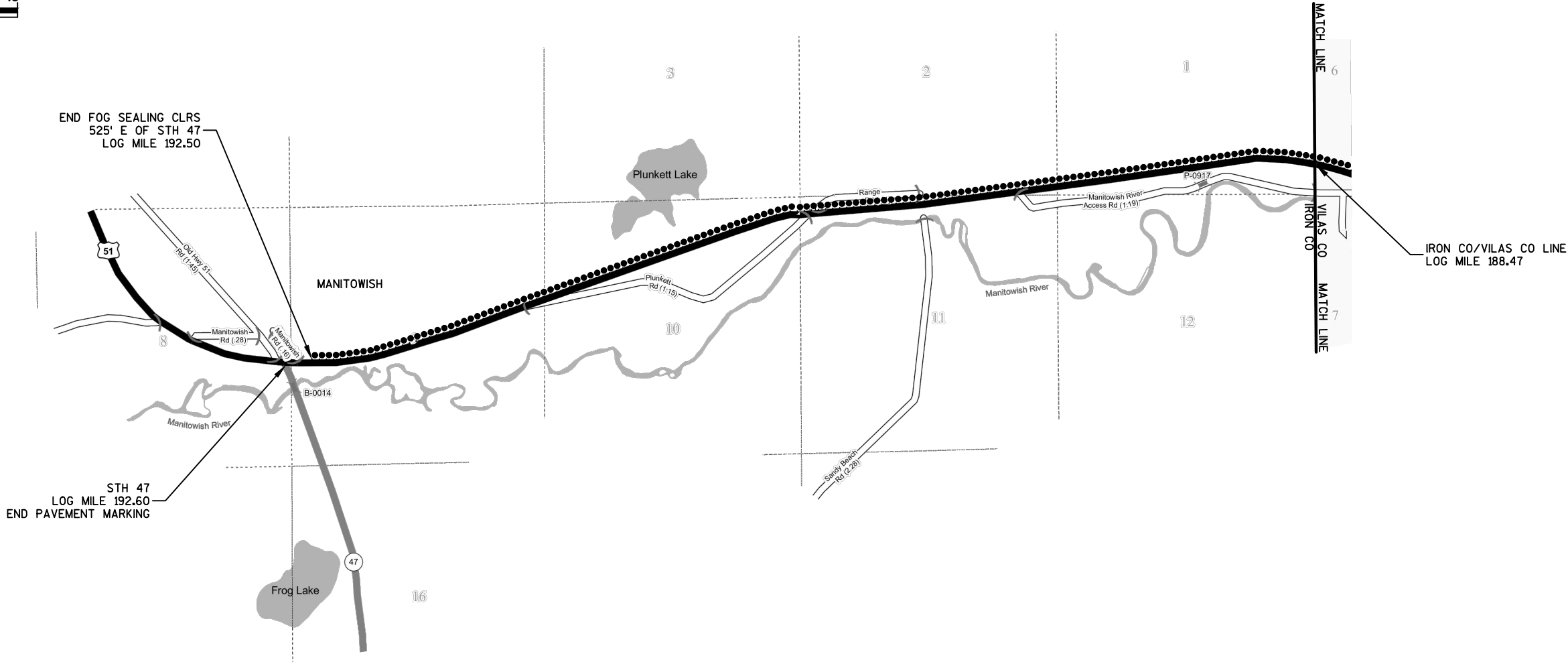
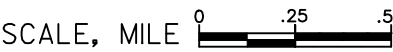
LEGEND

.....

EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)

⊠

PRESERVE SECTION CORNER MONUMENT, SEE TABLE



LEGEND

..... EXISTING LIMITS OF ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL (CLRS)

PRESERVE SECTION CORNER MONUMENT, SEE TABLE

DATE 06MAY14		E S T I M A T E O F Q U A N T I T I E S			
LINE					1009-43-65
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	204.0120	REMOVING ASPHALTIC SURFACE MILLING	SY	5,330.000	5,330.000
0020	213.0100	FINISHING ROADWAY (PROJECT) 01.	EACH	1.000	1.000
		1009-43-65			
0030	455.0605	TACK COAT	GAL	136.000	136.000
0040	465.0105	ASPHALTIC SURFACE	TON	586.000	586.000
0050	465.0475	ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL	LF	23,950.000	23,950.000
0060	619.1000	MOBILIZATION	EACH	1.000	1.000
0070	643.0100	TRAFFIC CONTROL (PROJECT) 01. 1009-43-65	EACH	1.000	1.000
0080	643.0300	TRAFFIC CONTROL DRUMS	DAY	410.000	410.000
0090	646.0103	PAVEMENT MARKING PAINT 4-INCH	LF	1,612,120.000	1,612,120.000
0100	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	249,055.000	249,055.000
0110	646.0123	PAVEMENT MARKING PAINT 8-INCH	LF	5,815.000	5,815.000
0120	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	1,965.000	1,965.000
0130	SPV.0060	SPECIAL 01. TEMPORARY PAVEMENT MARKING REFLECTIVE TABS	EACH	11,370.000	11,370.000
0140	SPV.0090	SPECIAL 01. FOG SEAL RUMBLE STRIPS	LF	567,065.000	567,065.000
0150	SPV.0090	SPECIAL 02. SEALING ASPHALTIC PAVEMENT CRACKS	LF	104,185.000	104,185.000

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CENTERLINE MAINTENANCE & PRESERVATION ITEMS

						204.0120	455.0605	465.0105	465.0475	SPV.0090.01	SPV.0090.02	
						REMOVING	TACK	ASPHALTIC	ASPHALT	FOG SEAL	SEALING	
						ASPHALTIC SURFACE	COAT	SURFACE	CENTER LINE	RUMBLE	ASPHALTIC	
						MILLING			RUMBLE STRIPS	STRIPS	PAVEMENT	
									2-LANE RURAL		CRACKS	
SEGMENT ID	HIGHWAY	COUNTY	LOG MILE	TO	LOG MILE	SEGMENT ID DESCRIPTION	SY	GAL	TON	LF	LF	LF
10237	STH 73	WOOD	72.24	-	75.51	1474 FT WEST OF STH 13 - 500 FT EAST OF WEST JCT CTH Z	-	-	-	-	11,500	2,435
11312	USH 45	WAUPACA	13.13	-	20.10	500 FT NORTH OF CTH D - 1650 FT SOUTH OF STH 22	-	-	-	-	31,850	8,950
11987	STH 22	WAUPACA & SHAWANO	95.52	-	106.69	850 FT NORTH OF MEADOW LANE - 1500 FT SOUTH OF CTH CC	-	-	-	-	45,650	7,160
14347	USH 8	ONEIDA	67.45	-	78.02	2375 FT EAST OF STH 17 - 1000 FT EAST OF LAKE RD	-	-	-	-	47,400	14,625
14351	STH 17	LINCOLN & ONEIDA	1.20	-	37.24	1000 FT NORTH OF CTH G - 500 FT SOUTH OF BOYCE DR	310	8	34	1,380	80,760	38,500
14423	USH 51	ONEIDA	146.67	-	155.24	345 FT NORTH OF CTH K - 725 FT SOUTH OF CTH Y	-	-	-	-	40,655	8,265
14429	STH 17	ONEIDA	44.84	-	53.10	200 FT NORTH OF CTH W - 500 FT SOUTH OF CTH A	-	-	-	-	37,205	-
14555	STH 17	ONEIDA & VILAS	54.60	-	61.52	200 FT NORTH OF INDIAN LAKE RD - 1050 FT SOUTH OF SKINNER RD	-	-	-	-	31,765	-
14443	STH 32	FOREST	32.71	-	43.58	750 FT NORTH OF STH 55 - ONEIDA CO LINE	-	-	-	-	45,780	1,300
14560	STH 32 & USH 45	ONEIDA & VILAS	43.58	-	61.10	FOREST CO LINE - 1500 FT SOUTH OF CATFISH LAKE DR	3,730	95	410	16,770	46,165	6,895
14571	STH 70	PRICE	13.97	-	32.57	1250 FT EAST OF WEST JCT OF OLD HWY 70 - ONEIDA CO LINE	-	-	-	-	88,160	2,035
14585	STH 139	FLORENCE	10.61	-	20.51	FOREST CO. LINE - 500 FT SOUTH OF SOUTH JCT STH 70	690	18	76	3,100	38,875	3,800
14673	USH 51	VILAS & IRON	186.39	-	192.50	200 FT NORTH OF CTH W - 525 FT EAST OF STH 47	-	-	-	-	21,300	720
UNDISTRIBUTED						PROJECT 1009-43-65	600	15	66	2,700	-	9,500
TOTALS							5,330	136	586	23,950	567,065	104,185

TRAFFIC CONTROL & TEMPORARY PAVEMENT MARKING

						643.0100.01	643.0300	649.0100			
						TRAFFIC CONTROL (PROJECT)	TRAFFIC CONTROL DRUMS	TEMPORARY PAVEMENT MARKING			
								4-INCH			
SEGMENT ID	HIGHWAY	COUNTY	LOG MILE	TO	LOG MILE	SEGMENT ID DESCRIPTION	EACH	EACH	DAYS	LF	COMMENTS
14351	STH 17	LINCOLN & ONEIDA	1.20	-	37.24	1000 FT NORTH OF CTH G - 500 FT SOUTH OF BOYCE DR	-	14	28	115	MILLED CENTERLINE DELINEATION
14560	STH 32 & USH 45	ONEIDA & VILAS	43.58	-	61.10	FOREST CO LINE - 1500 FT SOUTH OF CATFISH LAKE DR	-	129	258	1,350	MILLED CENTERLINE DELINEATION
14585	STH 139	FLORENCE	10.61	-	20.51	FOREST CO. LINE - 500 FT SOUTH OF SOUTH JCT STH 70	-	32	64	250	MILLED CENTERLINE DELINEATION
PROJECT	-	-	-	-	-	PROJECT 1009-43-65	1	-	-	-	
UNDISTRIBUTED						PROJECT 1009-43-65	-	30	60	250	MILLED CENTERLINE DELINEATION
						TOTALS	1		410	1,965	

ALL ITEMS AND QUANTITIES ON
THIS SHEET ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

PROJECT NO:1009-43-65

HWY: VARIOUS

COUNTY: VARIOUS

MISCELLANEOUS QUANTITIES

SHEET

E

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PAVEMENT MARKING											
						646.0103	646.0103	646.0106	646.0123		
						PAINT	PAINT	EPOXY	PAINT		
						4-INCH	4-INCH	4-INCH	8-INCH		
						(YELLOW)	(WHITE)	(YELLOW)	(WHITE)		
SEGMENT ID	HIGHWAY	COUNTY	LOG MILE	TO	LOG MILE	SEGMENT ID DESCRIPTION	LF	LF	LF	LF	REMARKS
10237	STH 73	WOOD	71.96	-	75.61	STH 13 - WEST JCT CTH Z	7,835	36,365	-	535	CENTERLINE & EDGELINE
11312	USH 45	WAUPACA	13.04	-	20.41	CTH D - STH 22	-	-	39,505	-	CENTERLINE
11987	STH 22	WAUPACA & SHAWANO	94.90	-	106.71	STH 156 - WHERE STH 22 DIVIDES	71,885	116,080	-	3,010	CENTERLINE & EDGELINE
14347	USH 8	ONEIDA	67.00	-	78.45	STH 17 - USH 45	-	-	61,525	-	CENTERLINE
14351	STH 17	LINCOLN	1.01	-	15.01	CTH G - CTH CCC	92,000	126,485	-	180	CENTERLINE & EDGELINE
14351	STH 17	ONEIDA	32.44	-	37.43	CTH A - USH 8/STH 47	15,235	53,345	-	1,210	CENTERLINE & EDGELINE
14423	USH 51	ONEIDA	146.60	-	155.38	CTH K - CTH Y	-	-	62,660	-	CENTERLINE
14429 & 14555	STH 17	ONEIDA & VILAS	44.80	-	61.79	CTH W - STH 70	83,655	176,050	-	880	CENTERLINE & EDGELINE
14443	STH 32	FOREST	32.56	-	43.58	STH 55 - ONEIDA CO LINE	72,140	114,730	-	-	CENTERLINE & EDGELINE
14560	STH 32	ONEIDA	43.58	-	52.52	FOREST CO. LINE - USH 45	87,830	92,990	-	-	CENTERLINE & EDGELINE
14560	USH 45	ONEIDA & VILAS	52.52	-	62.05	E JCT STH 32 - STH 70	-	-	63,860	-	CENTERLINE
14571	STH 70	PRICE	13.44	-	32.57	STH 13 - ONEIDA CO LINE	97,375	199,320	-	-	CENTERLINE & EDGELINE
14585	STH 139	FLORENCE	10.61	-	20.60	FOREST CO. LINE - SOUTH JCT STH 70	73,850	94,950	-	-	CENTERLINE & EDGELINE
14673	USH 51	VILAS & IRON	186.35	-	192.60	CTH W - STH 47	-	-	21,505	-	CENTERLINE
SUBTOTALS							601,805	1,010,315			
TOTALS							1,612,120		249,055	5,815	

SPV.0060.01 TEMPORARY PAVEMENT MARKING REFLECTIVE TABS								
SEGMENT ID	HIGHWAY	COUNTY	LOG MILE	TO	LOG MILE	SEGMENT ID DESCRIPTION	EACH	COMMENTS
10237	STH 73	WOOD	72.24	-	75.51	1474 FT WEST OF STH 13 - 500 FT EAST OF WEST JCT CTH Z	230	YELLOW CENTERLINE
11312	USH 45	WAUPACA	13.13	-	20.10	500 FT NORTH OF CTH D - 1650 FT SOUTH OF STH 22	640	YELLOW CENTERLINE
11987	STH 22	WAUPACA & SHAWANO	95.52	-	106.69	850 FT NORTH OF MEADOW LANE - 1500 FT SOUTH OF CTH CC	915	YELLOW CENTERLINE
14347	USH 8	ONEIDA	67.45	-	78.02	2375 FT EAST OF STH 17 - 1000 FT EAST OF LAKE RD	950	YELLOW CENTERLINE
14351	STH 17	LINCOLN & ONEIDA	1.20	-	37.24	1000 FT NORTH OF CTH G - 500 FT SOUTH OF BOYCE DR	1,615	YELLOW CENTERLINE
14423	USH 51	ONEIDA	146.67	-	155.24	345 FT NORTH OF CTH K - 725 FT SOUTH OF CTH Y	815	YELLOW CENTERLINE
14429	STH 17	ONEIDA	44.84	-	53.10	200 FT NORTH OF CTH W - 500 FT SOUTH OF CTH A	745	YELLOW CENTERLINE
14555	STH 17	ONEIDA & VILAS	54.60	-	61.52	200 FT NORTH OF INDIAN LAKE RD - 1050 FT SOUTH OF SKINNER RD	640	YELLOW CENTERLINE
14443	STH 32	FOREST	32.71	-	43.58	750 FT NORTH OF STH 55 - ONEIDA CO LINE	920	YELLOW CENTERLINE
14560	STH 32 & USH 45	ONEIDA & VILAS	43.58	-	61.10	FOREST CO LINE - 1500 FT SOUTH OF CATFISH LAKE DR	925	YELLOW CENTERLINE
14571	STH 70	PRICE	13.97	-	32.57	1250 FT EAST OF WEST JCT OF OLD HWY 70 - ONEIDA CO LINE	1,765	YELLOW CENTERLINE
14585	STH 139	FLORENCE	10.61	-	20.51	FOREST CO. LINE - 500 FT SOUTH OF SOUTH JCT STH 70	780	YELLOW CENTERLINE
14673	USH 51	VILAS & IRON	186.39	-	192.50	200 FT NORTH OF CTH W - 525 FT EAST OF STH 47	430	YELLOW CENTERLINE
TOTALS							11,370	

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

Standard Detail Drawing List

13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
15C06-06	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16C	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C08-16D	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-02A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-02B	MOVING PAVEMENT MARKING OPERATION MULTI -LANE UNDIVIDED ROADWAY

GENERAL NOTES

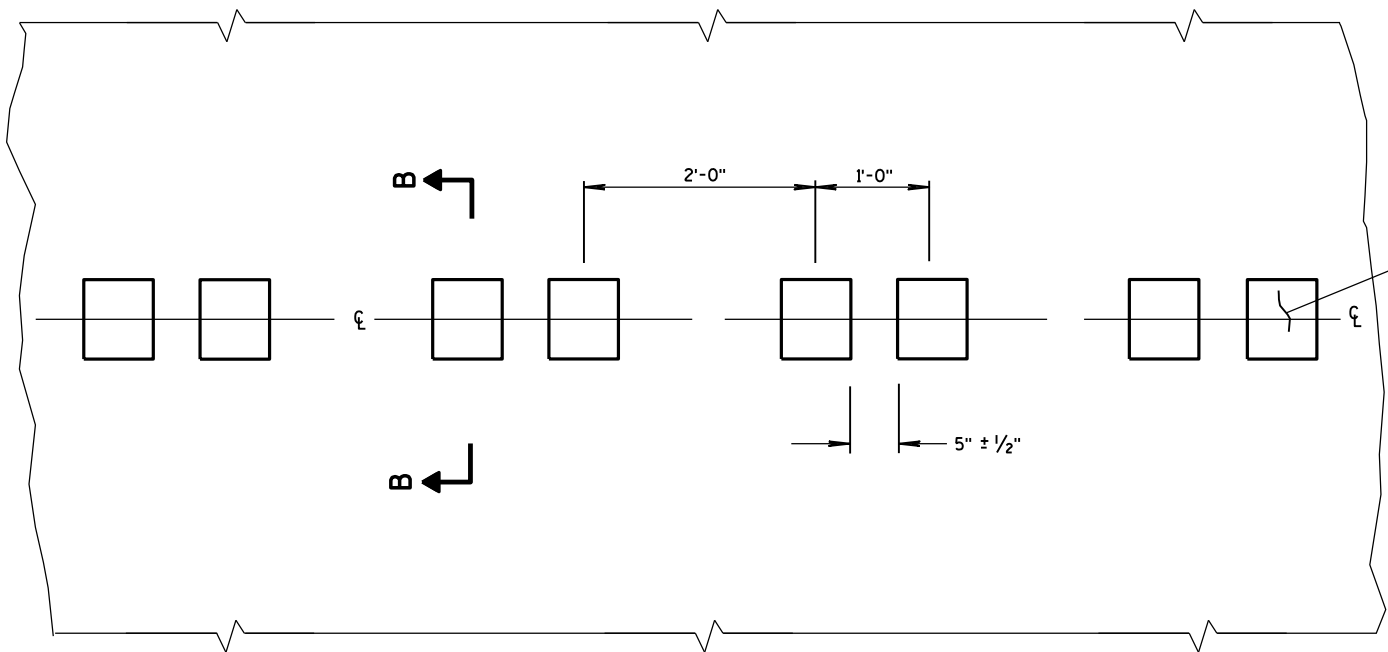
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

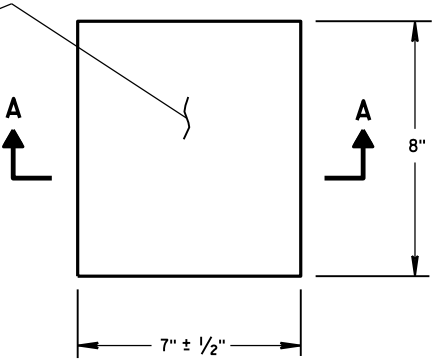
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

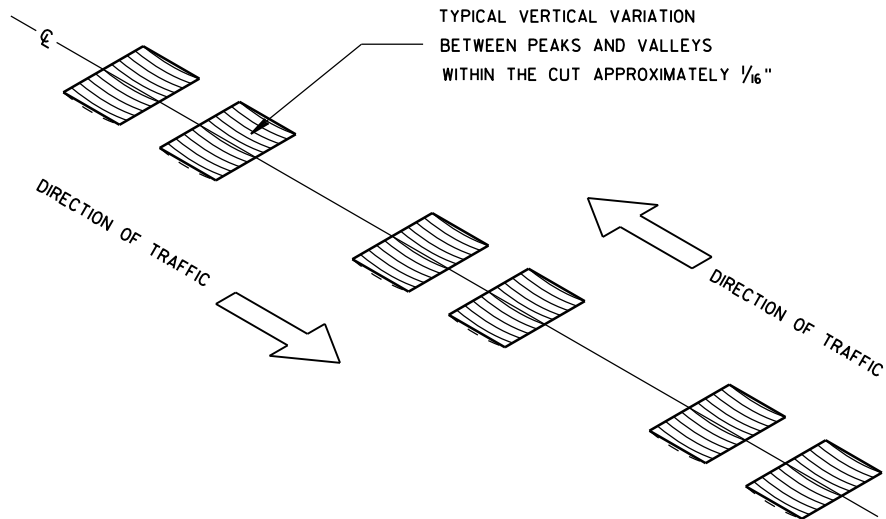
- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



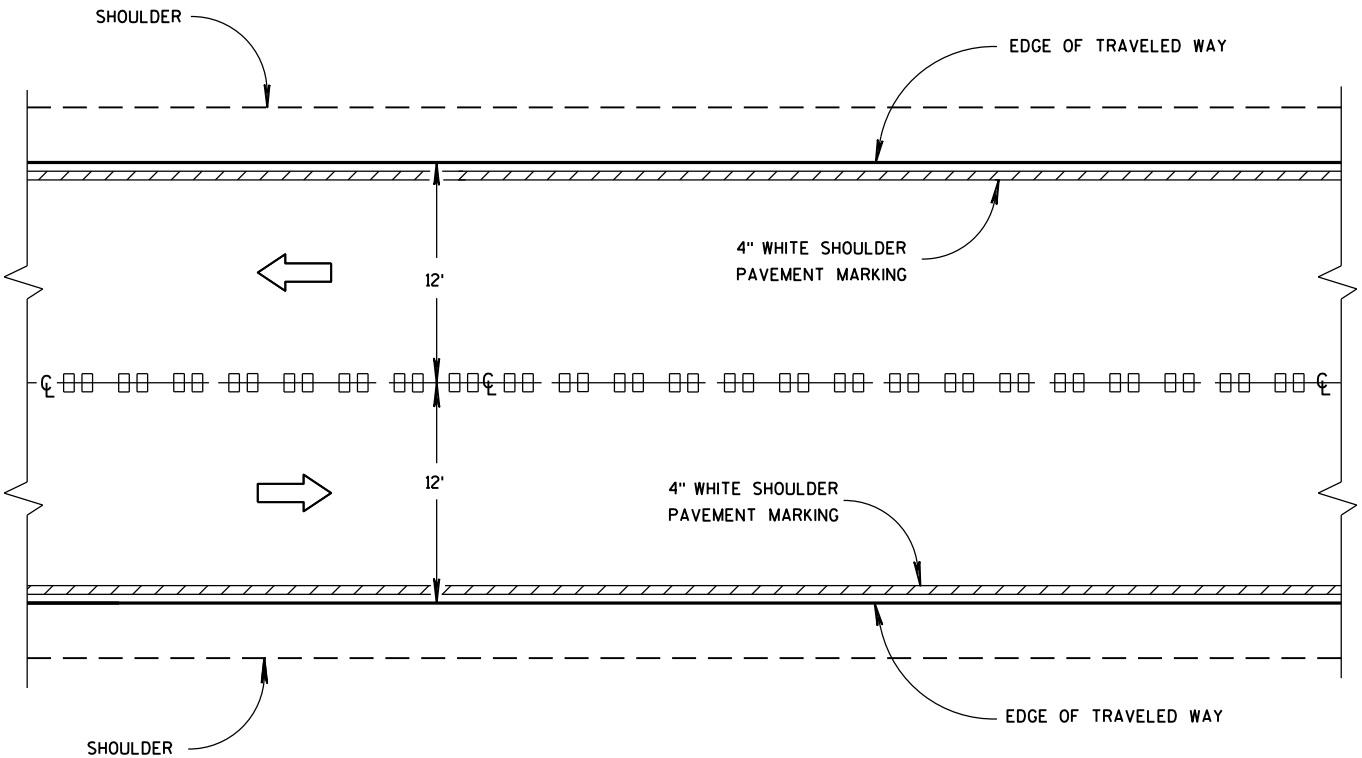
PLAN VIEW
CENTER LINE WITH GROOVES



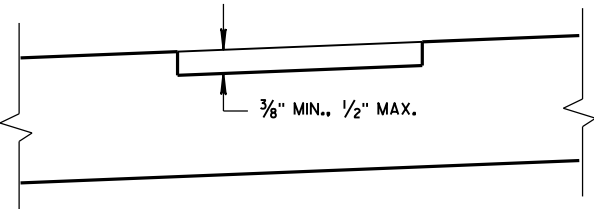
PLAN VIEW
(SINGLE GROOVE)



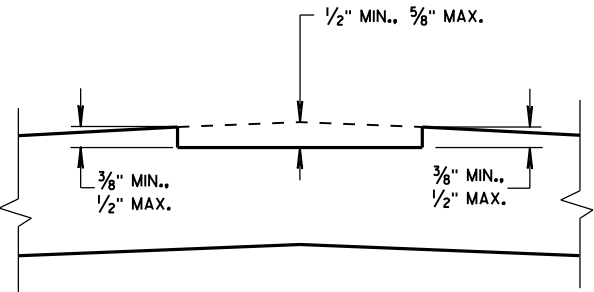
ISOMETRIC



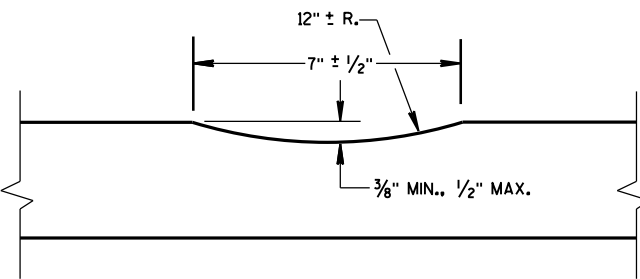
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



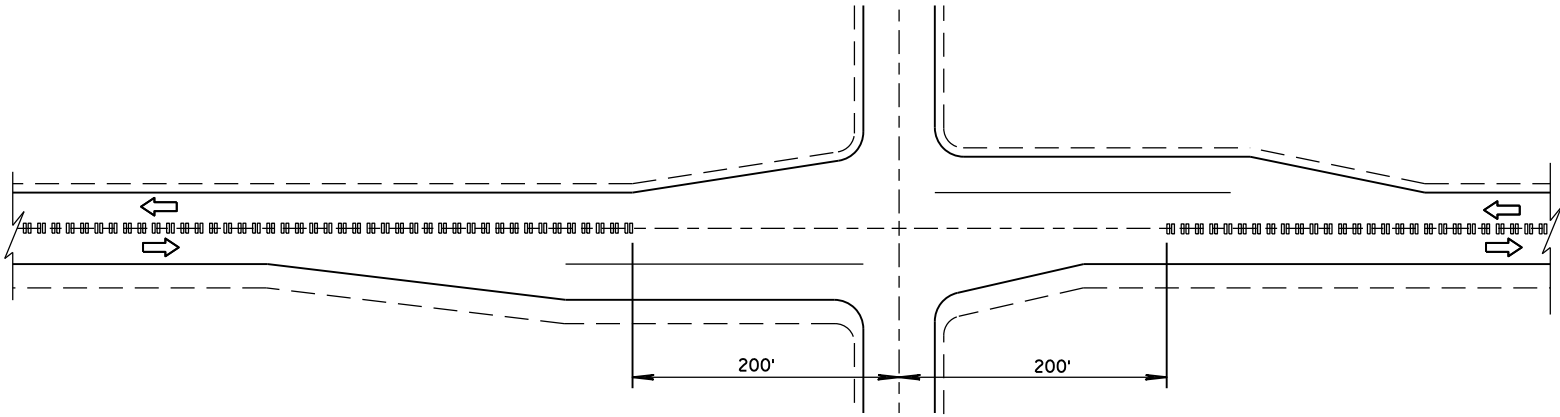
SECTION B-B
CROWNED ROADWAY



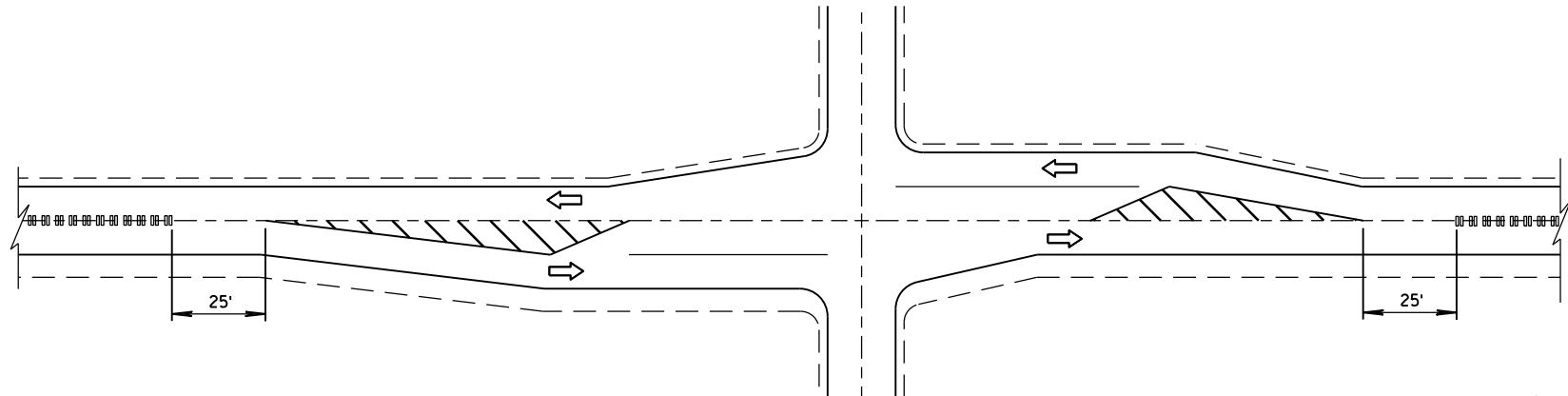
SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

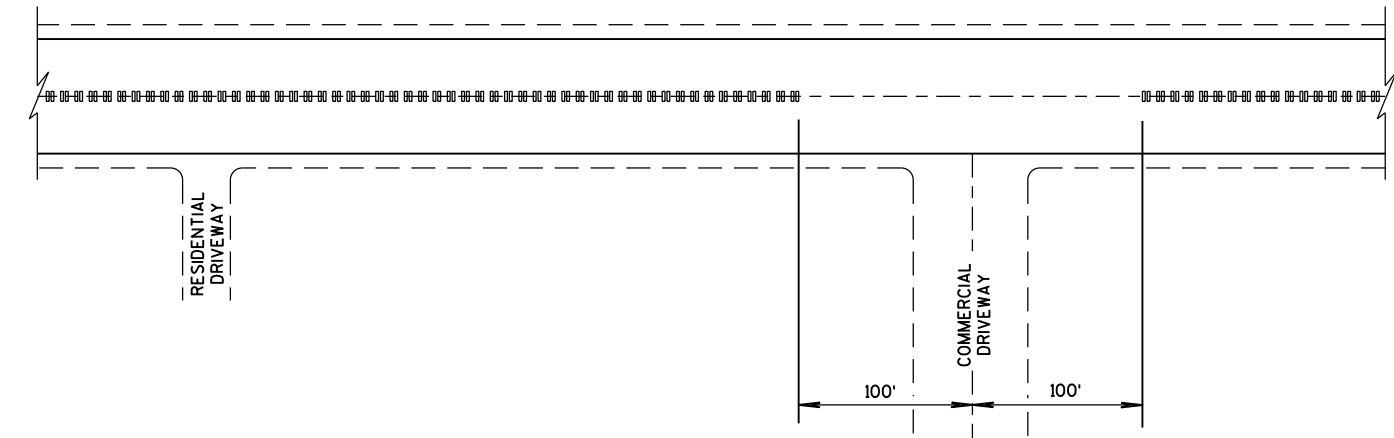
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CENTER LINE GROOVES AT INTERSECTIONS

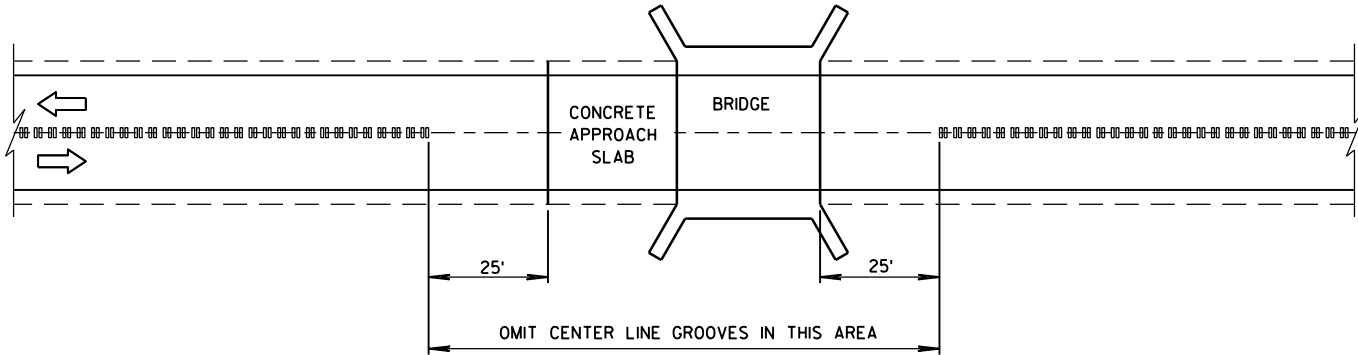


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

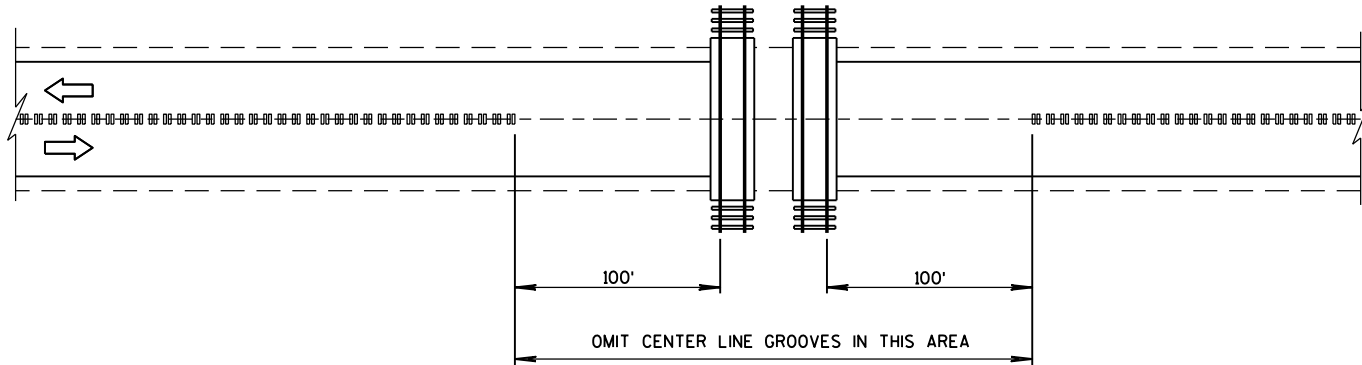


CENTER LINE GROOVES AT DRIVEWAYS¹

¹ CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.

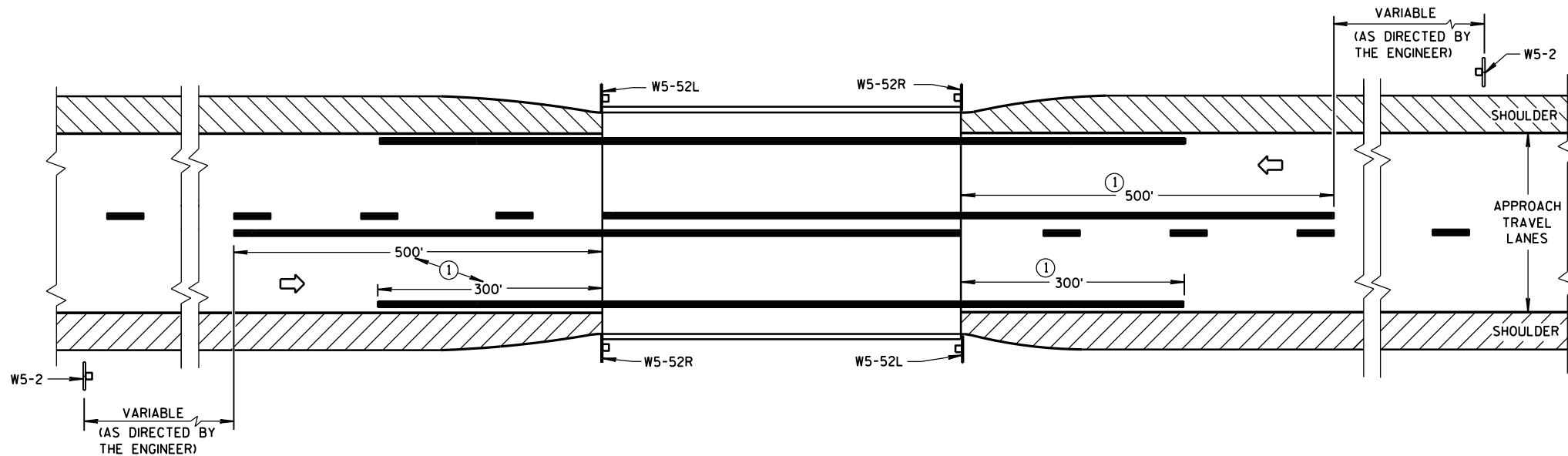


CENTER LINE GROOVES AT BRIDGES



CENTER LINE GROOVES AT RAILROADS

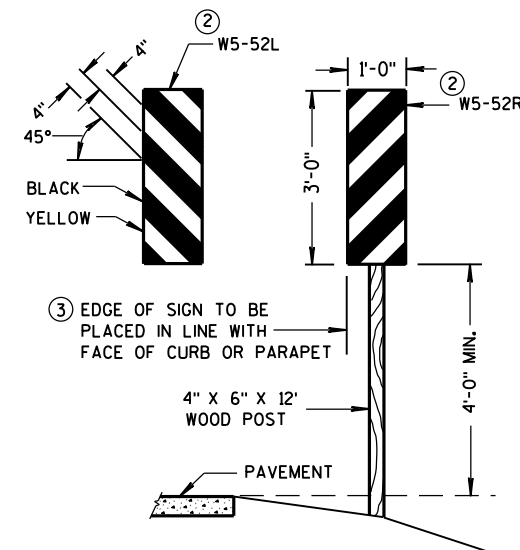
2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/15/2013 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	



SITUATION 1

WARRANTING CRITERIA:

BRIDGE WIDTH IS AT LEAST 18 FEET BUT LESS THAN 24 FEET



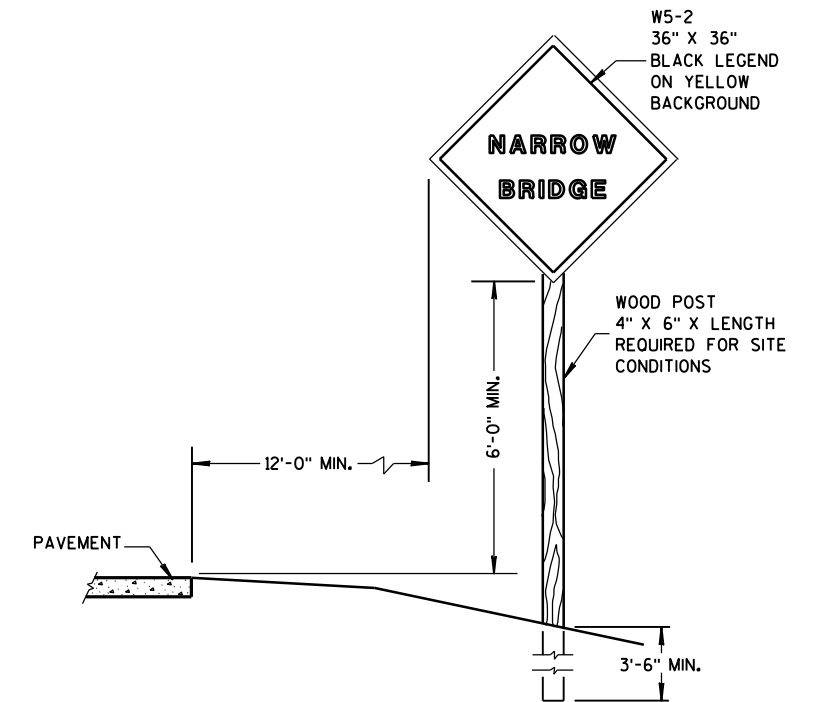
OBJECT MARKER PLACEMENT

GENERAL NOTES

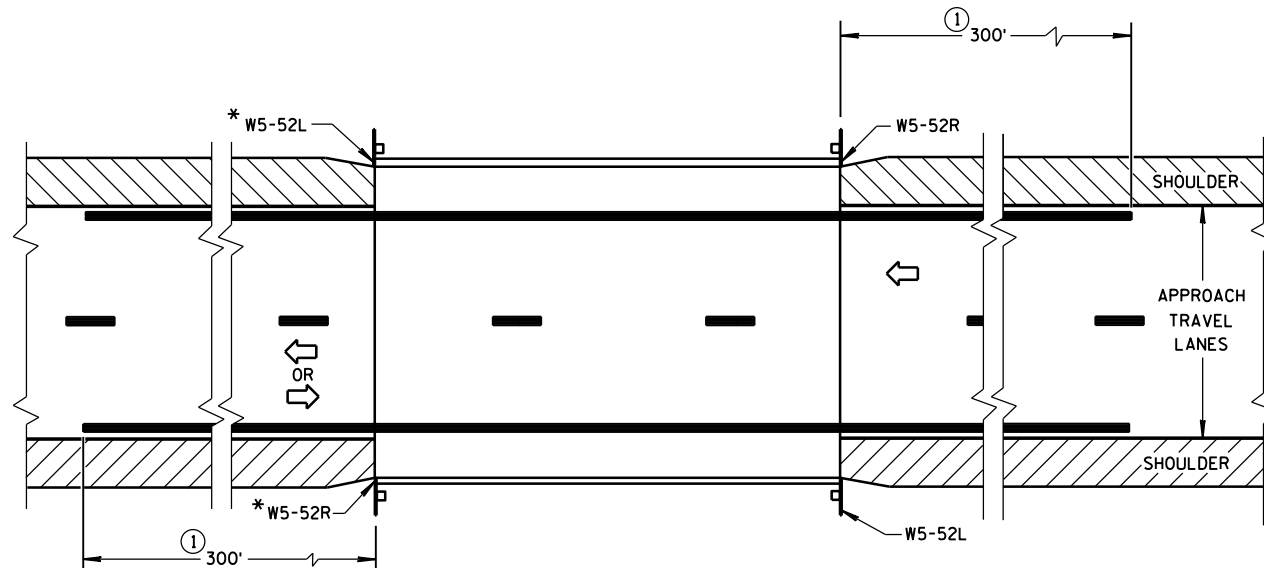
DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

PAVEMENT MARKING SHOWN ON THIS DRAWING IS NOT REQUIRED UNLESS OTHERWISE SPECIFIED IN THE CONTRACT. WHEN SPECIFIED, PAVEMENT MARKING SHALL CONFORM TO THIS DRAWING AND OTHER CONTRACT REQUIREMENTS.

- ① MINIMUM DISTANCE UNLESS OTHERWISE SHOWN ON THE PLAN.
- ② FACE OF OBJECT MARKERS W5-52R, AND W5-52L SHALL BE COVERED WITH TYPE F REFLECTIVE SHEETING.
- ③ LOCATE OBJECT MARKER POST(S) BEHIND GUARDRAIL WHEN PRESENT.



SIGN PLACEMENT



SITUATION 2

WARRANTING CRITERIA:

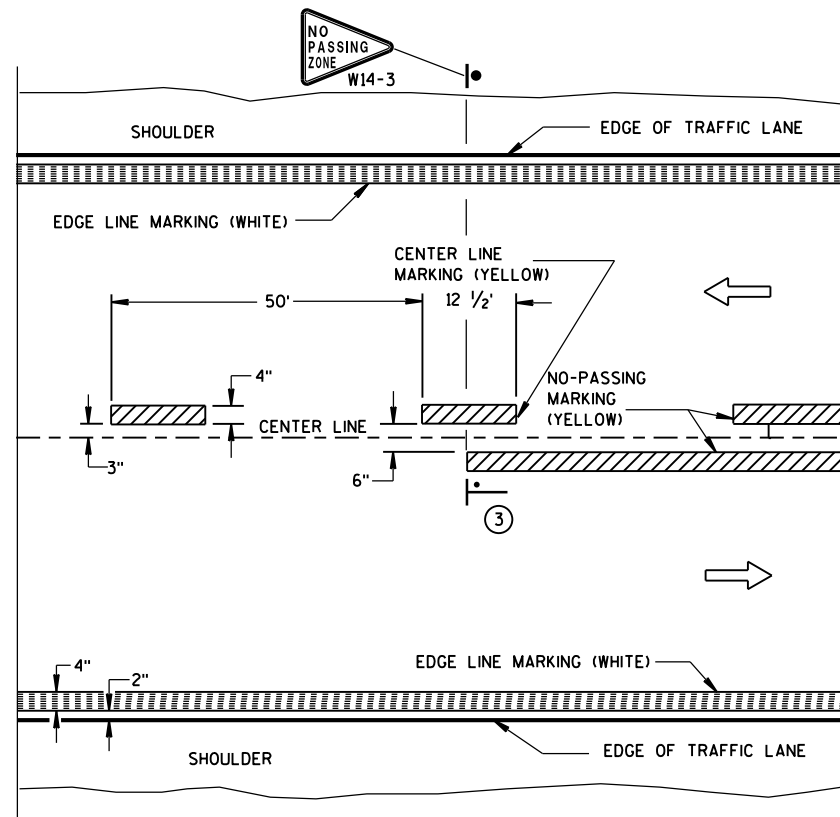
1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE IS LESS THAN 6 FEET WIDER (ON EACH SIDE) THAN APPROACH TRAVEL LANES.

*OMIT ON ONE-WAY TRAVELLED WAYS

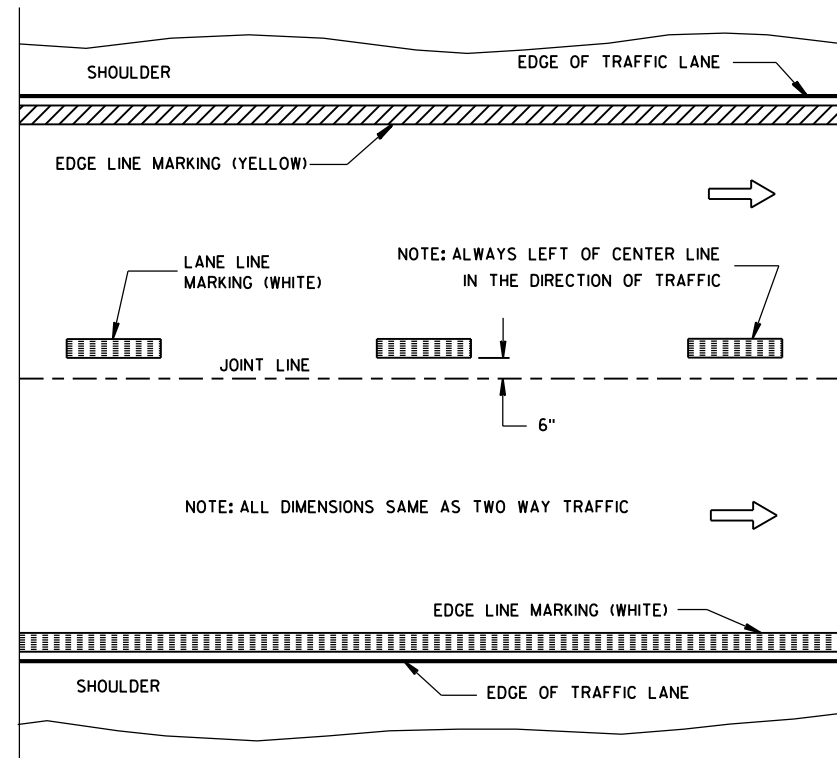
SIGNING & MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/4/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA

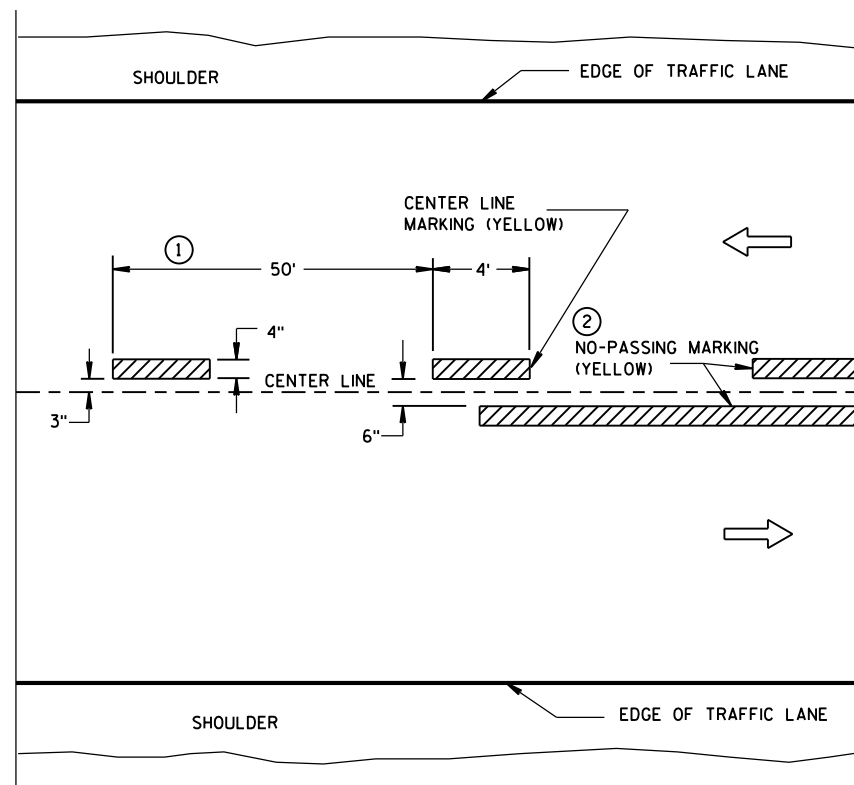


TWO WAY TRAFFIC

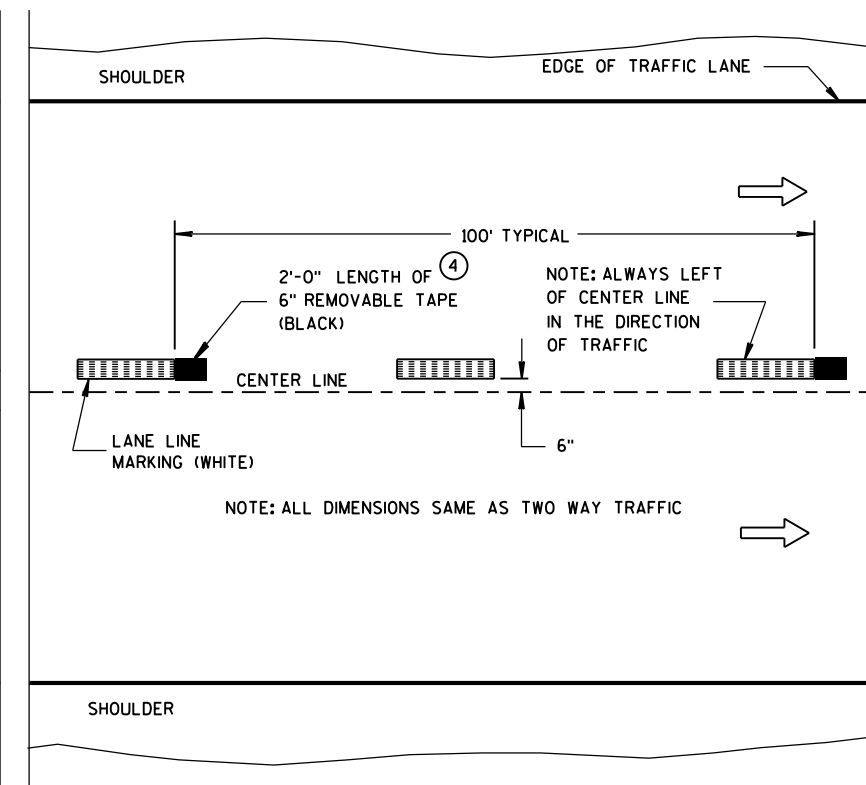


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

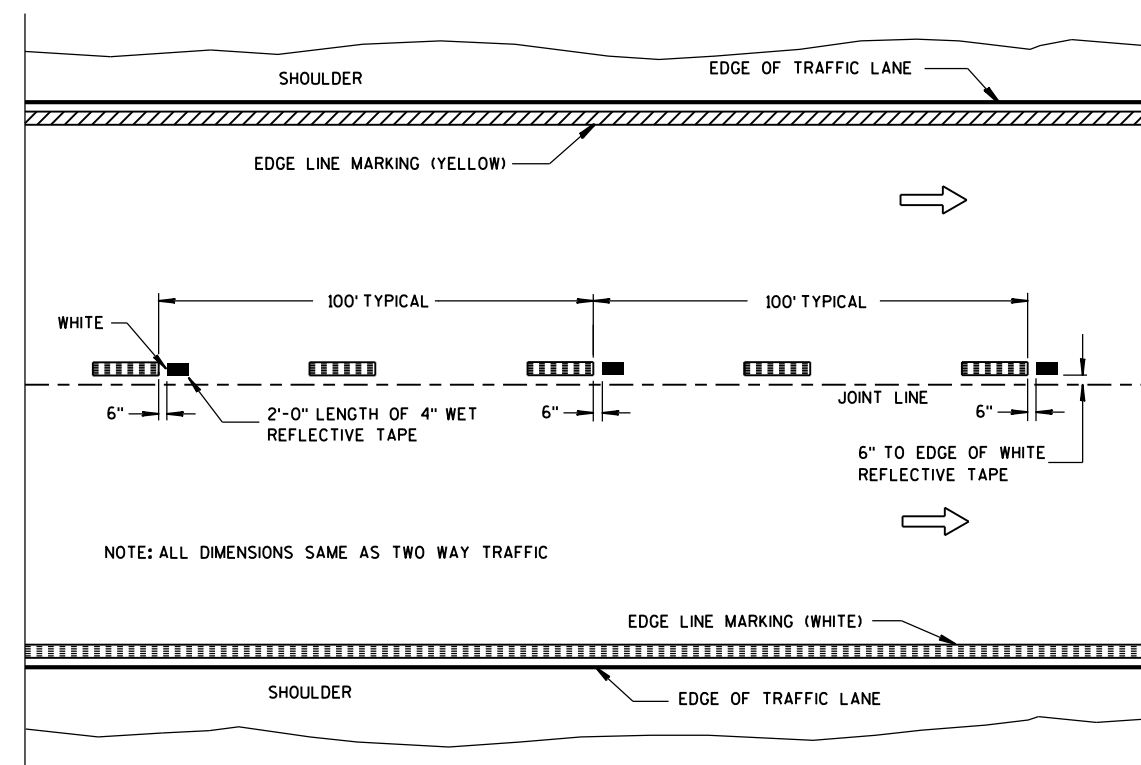
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- ① HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- ② NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- ③ NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- ④ CONCRETE ONLY.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

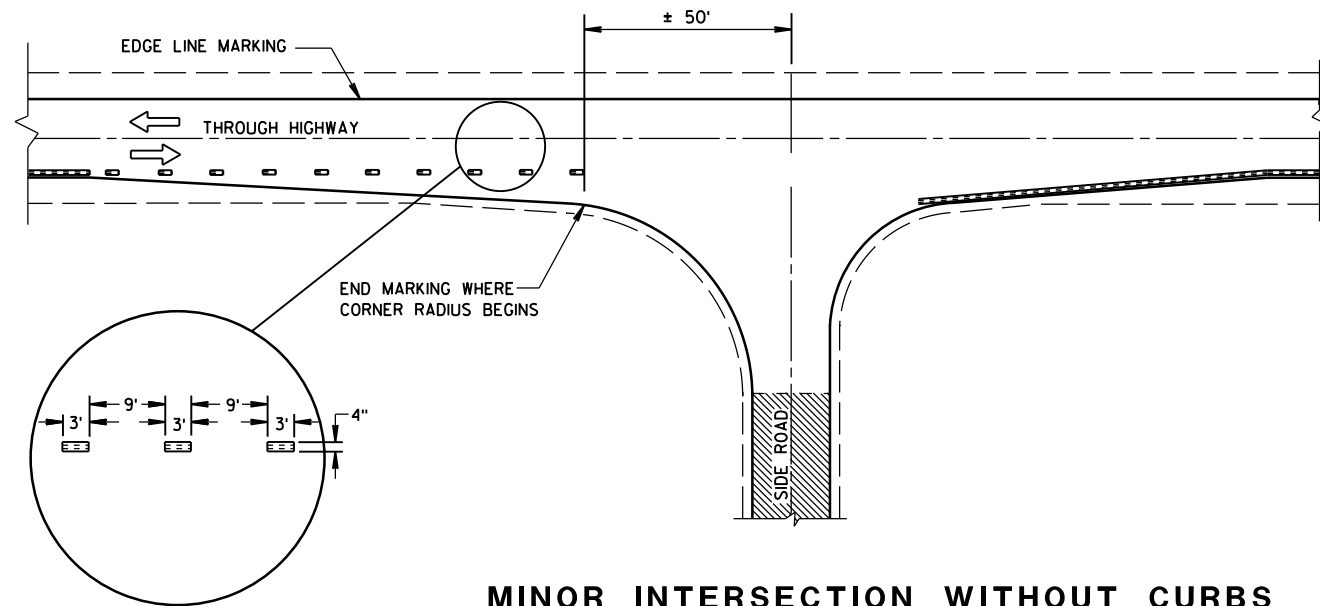
- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5-13-2013
DATE
FHWA

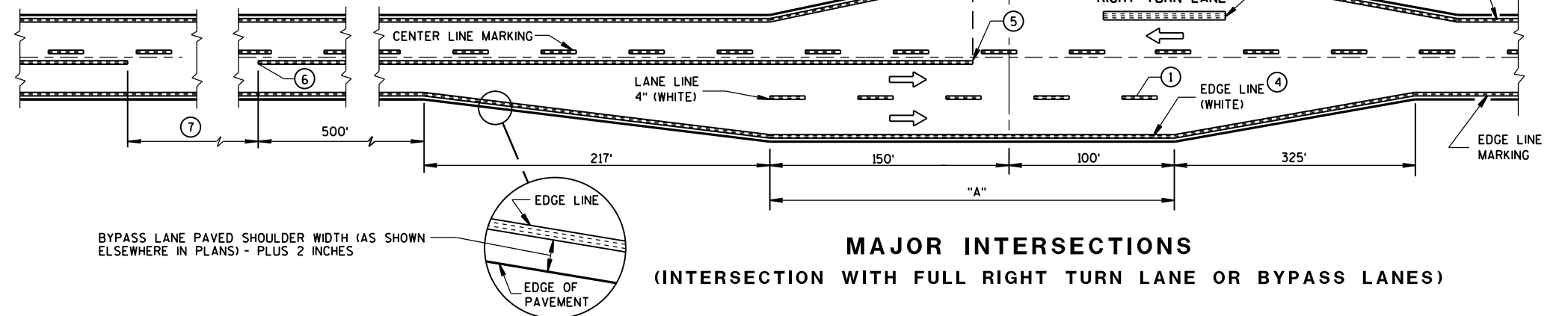
/S/ Travis Feltes
STATE TRAFFIC ENGINEER



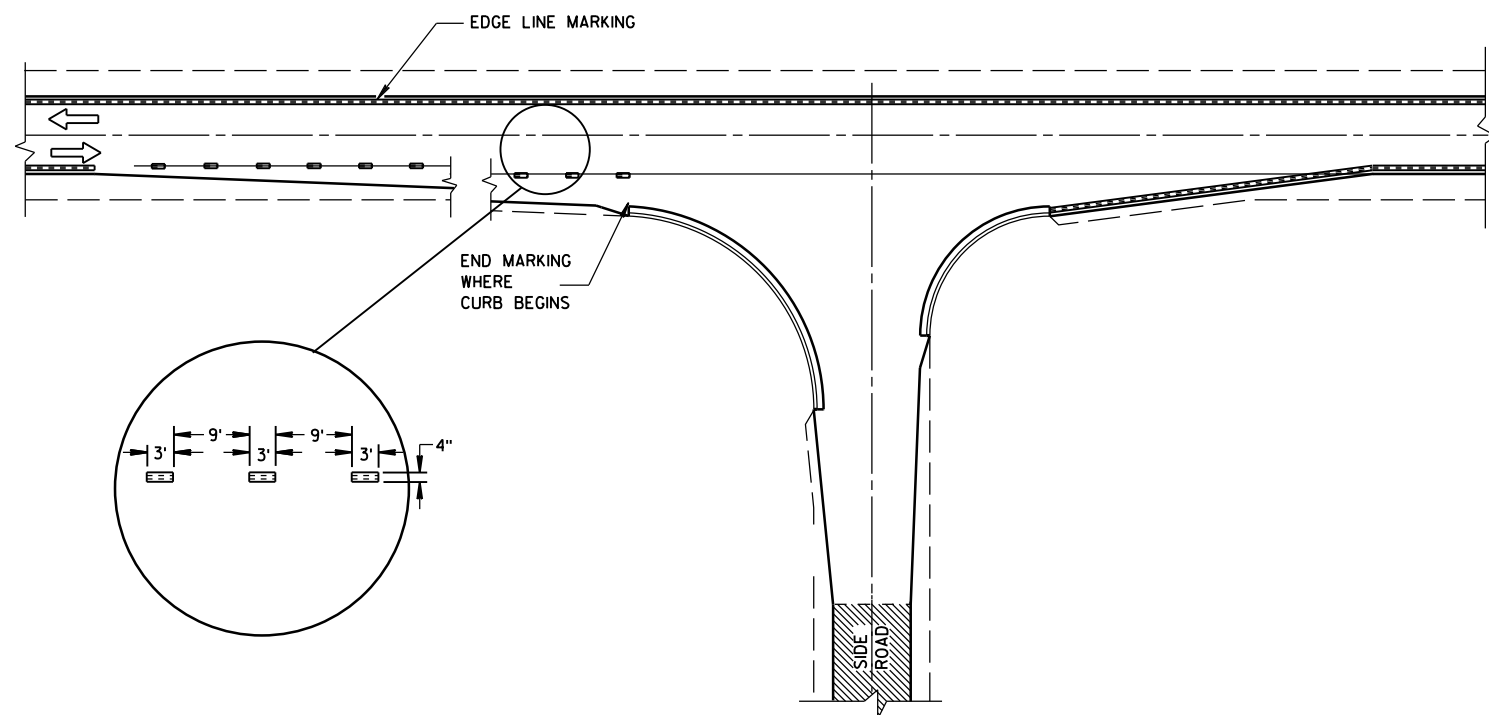
MINOR INTERSECTION WITHOUT CURBS

⑦

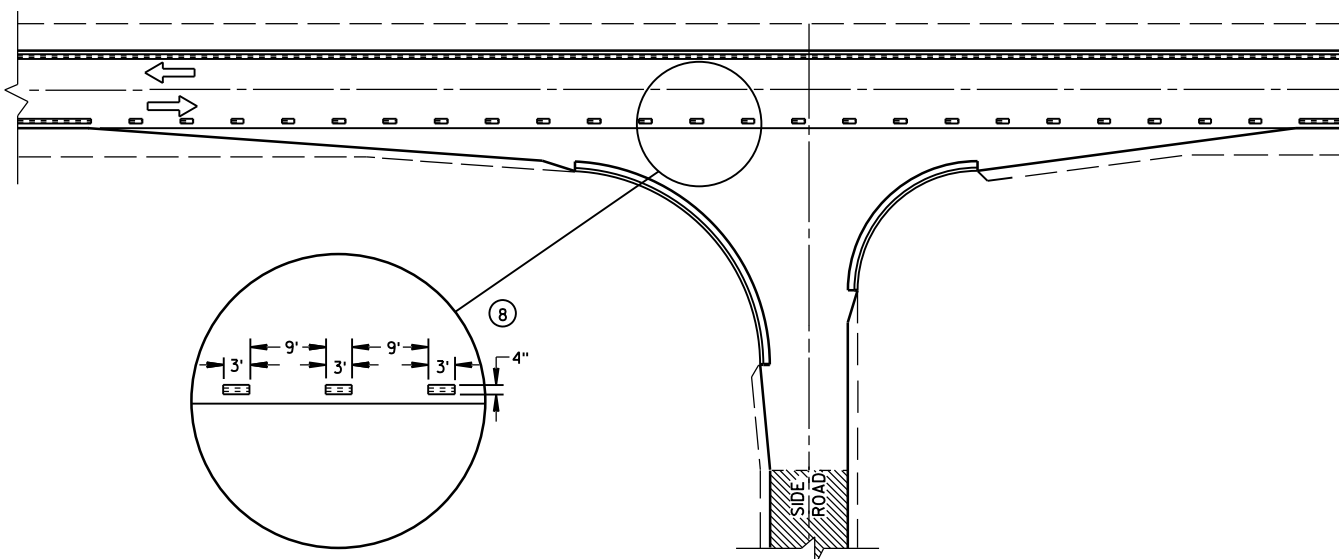
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



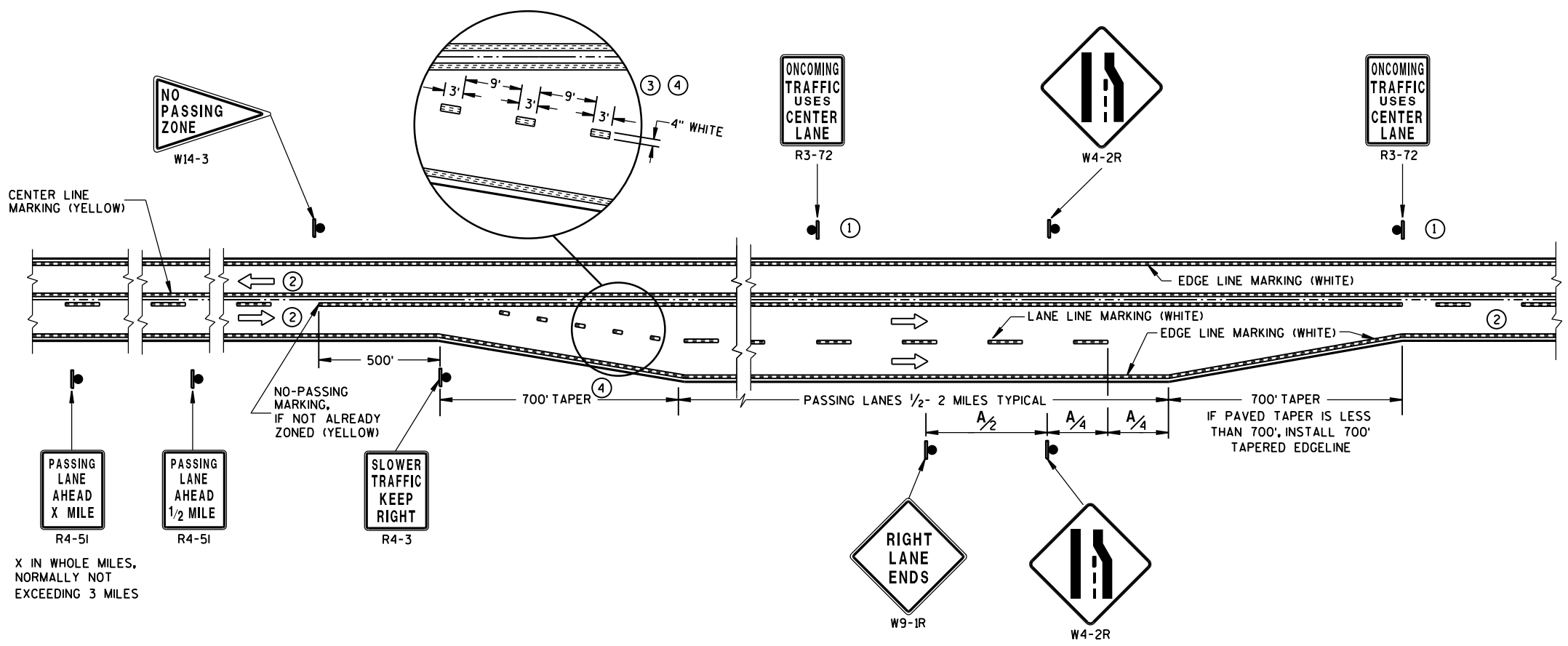
MINOR INTERSECTION WITH CURBS
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

GENERAL NOTES

- EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
 - ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
 - ③ ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
 - ④ THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.
 - ⑤ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
 - ⑥ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
 - ⑦ IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.
 - ⑧ 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



**SOLID DOUBLE-YELLOW LINE
(THROUGHOUT ENTIRE PASSING/CLIMBING LANE)**

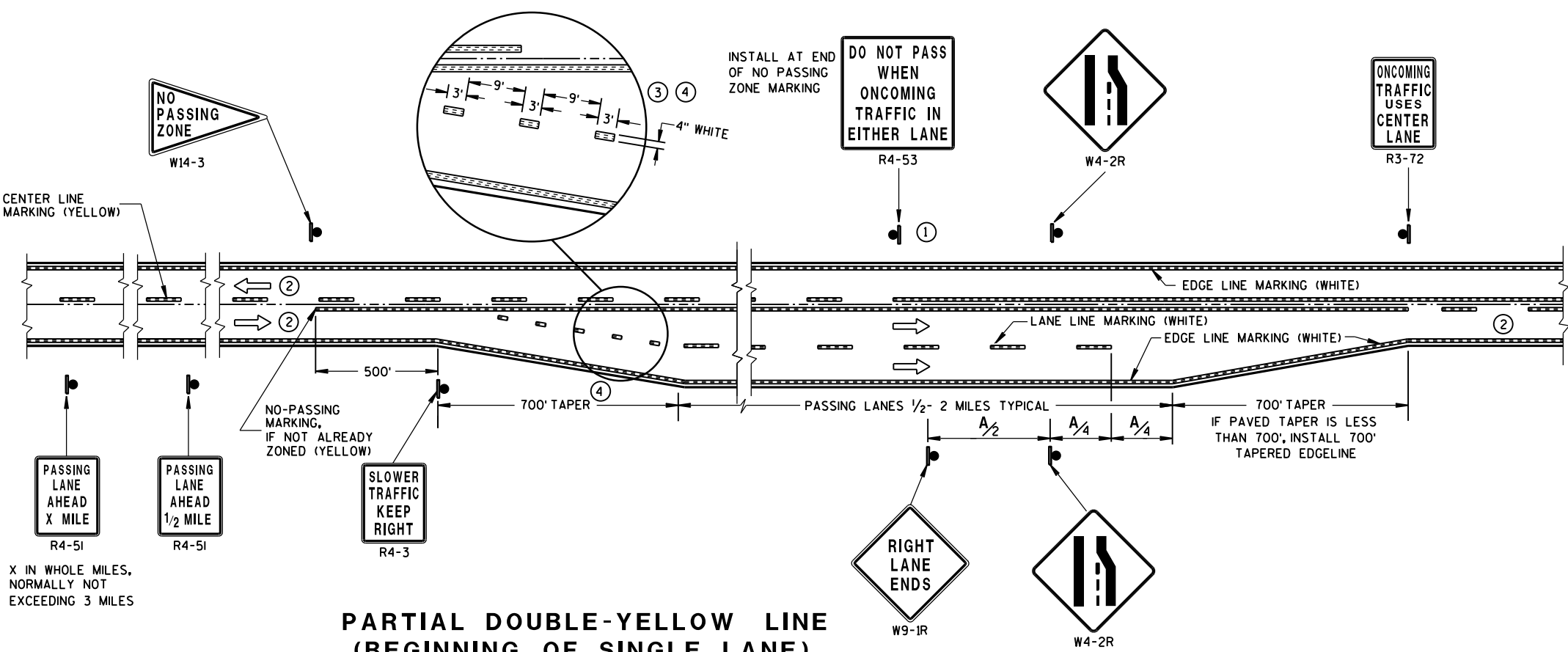
GENERAL NOTES

- ① SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- ② THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- ③ THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ④ WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (➡) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

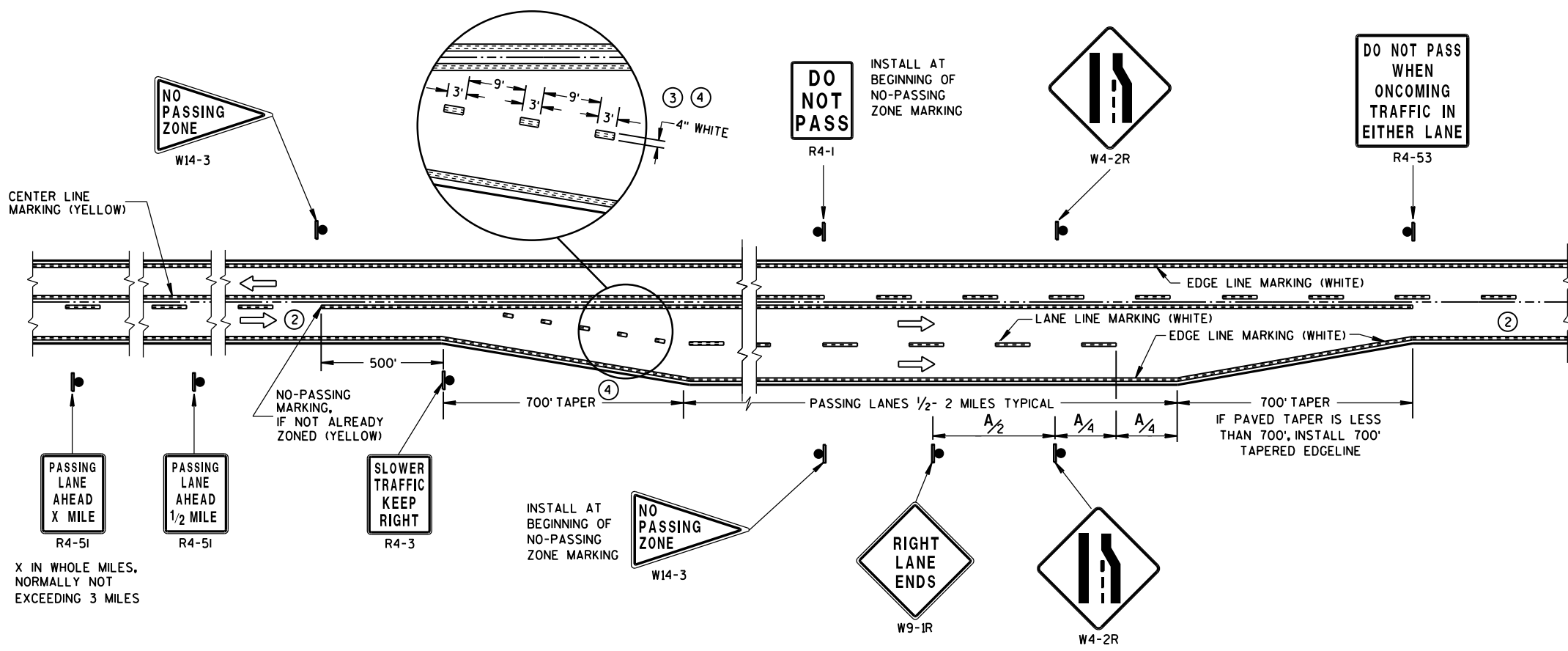
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950



**PARTIAL DOUBLE-YELLOW LINE
(BEGINNING OF SINGLE LANE)**

**PAVEMENT MARKING & SIGNING
(CLIMBING LANE & PASSING LANE)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



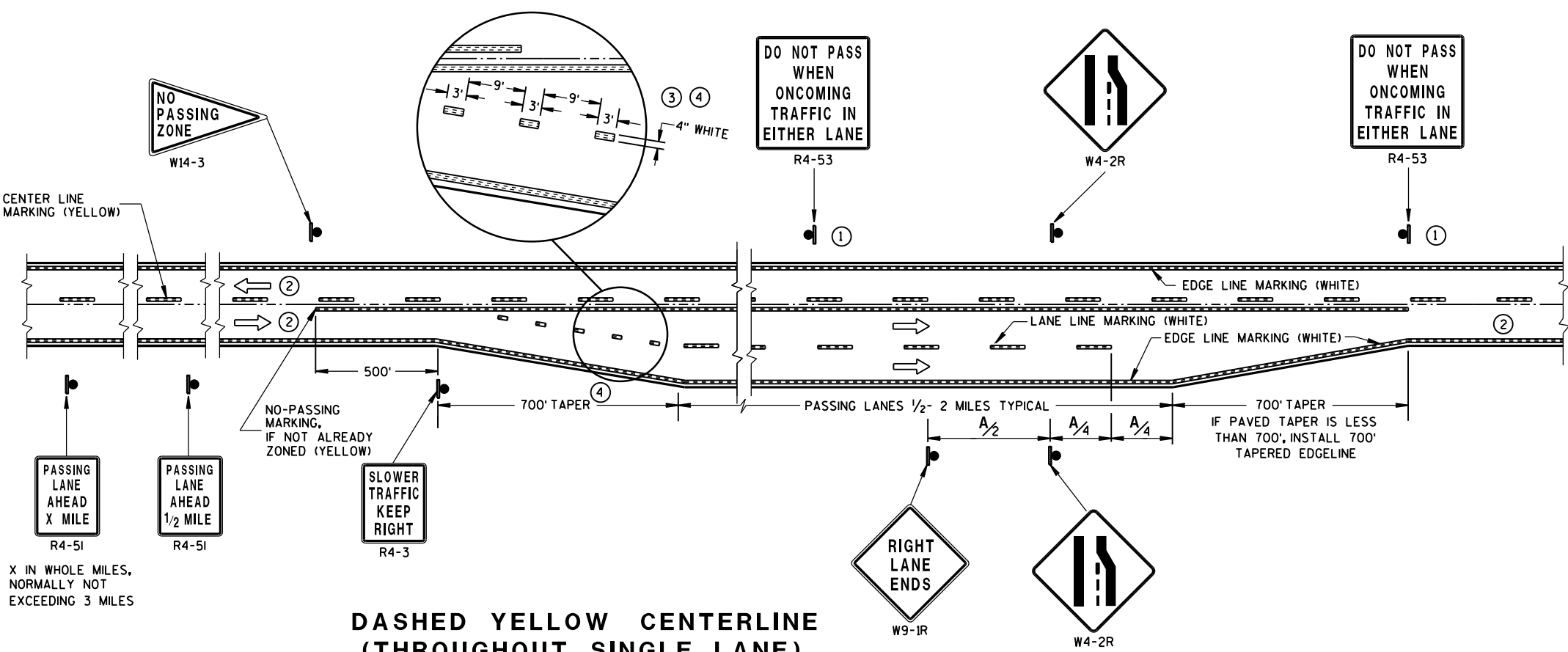
**SOLID DOUBLE-YELLOW LINE
(END OF SINGLE LANE)**

- GENERAL NOTES**
- ① SIGN SHALL BE REPEATED AT 1/2 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
 - ② THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
 - ③ THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
 - ④ WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL





DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950



**DASHED YELLOW CENTERLINE
(THROUGHOUT SINGLE LANE)**

LEGEND

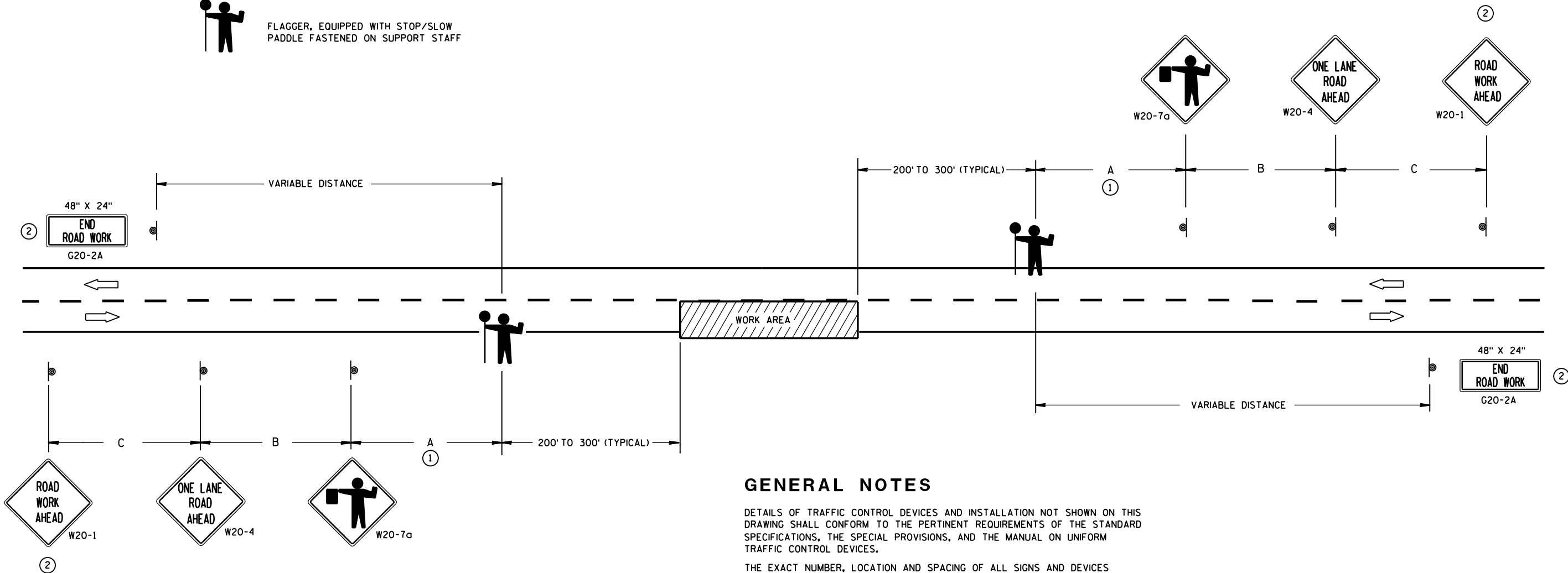
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

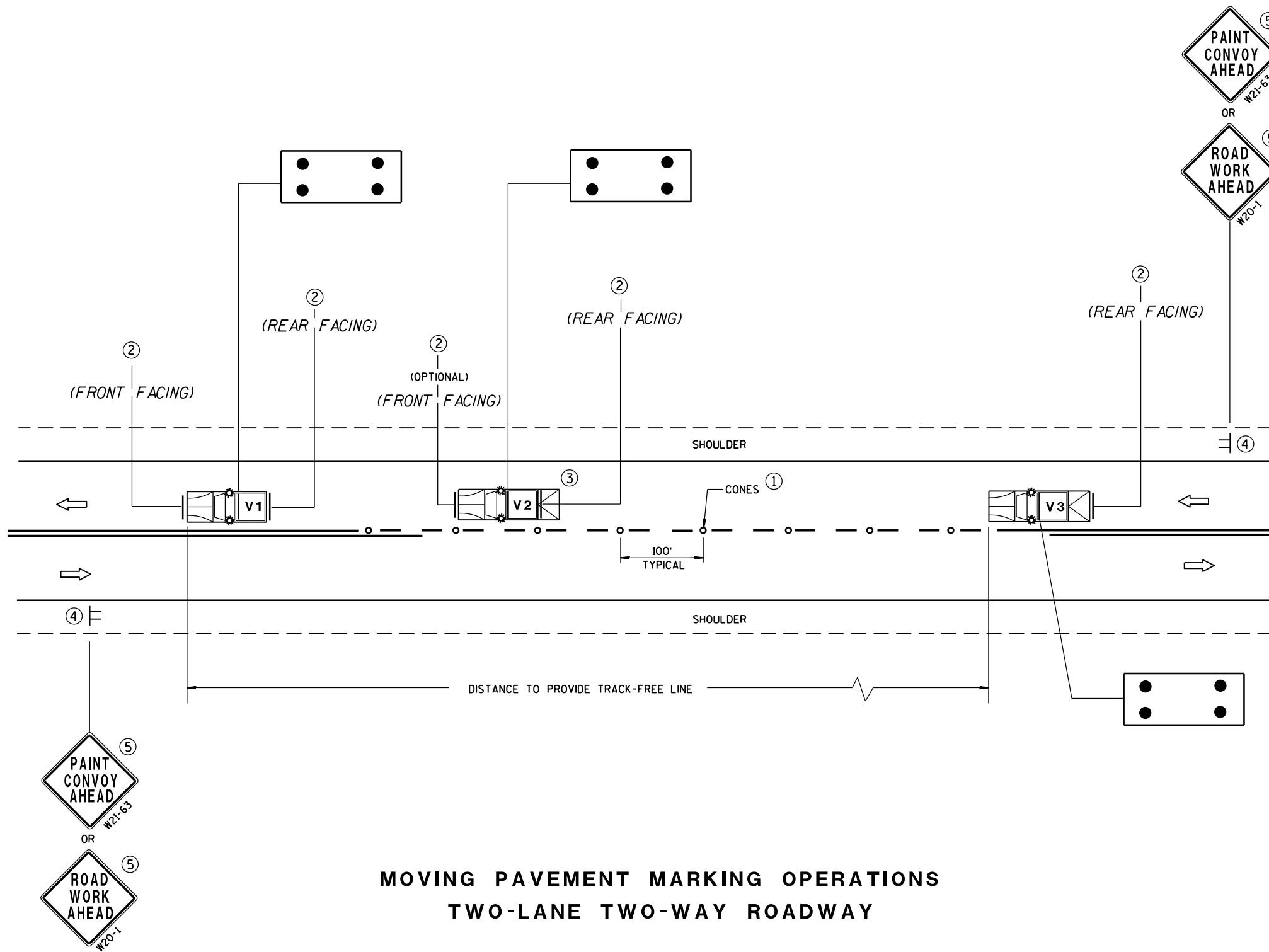
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- ① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

TRAFFIC CONTROL FOR LANE
CLOSURE (SUITABLE FOR
MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

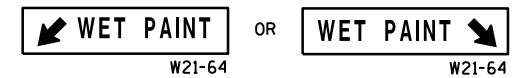
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.



③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.

④ SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1 LEAD VEHICLE

V2 SHADOW VEHICLE

V3 TRAIL VEHICLE WITH TMA

TMA TRUCK-MOUNTED ATTENUATOR

 SIGN ON TEMPORARY SUPPORT

 DIRECTION OF TRAFFIC

 CONES

 FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING
OPERATION
TWO-LANE TWO-WAY ROADWAY

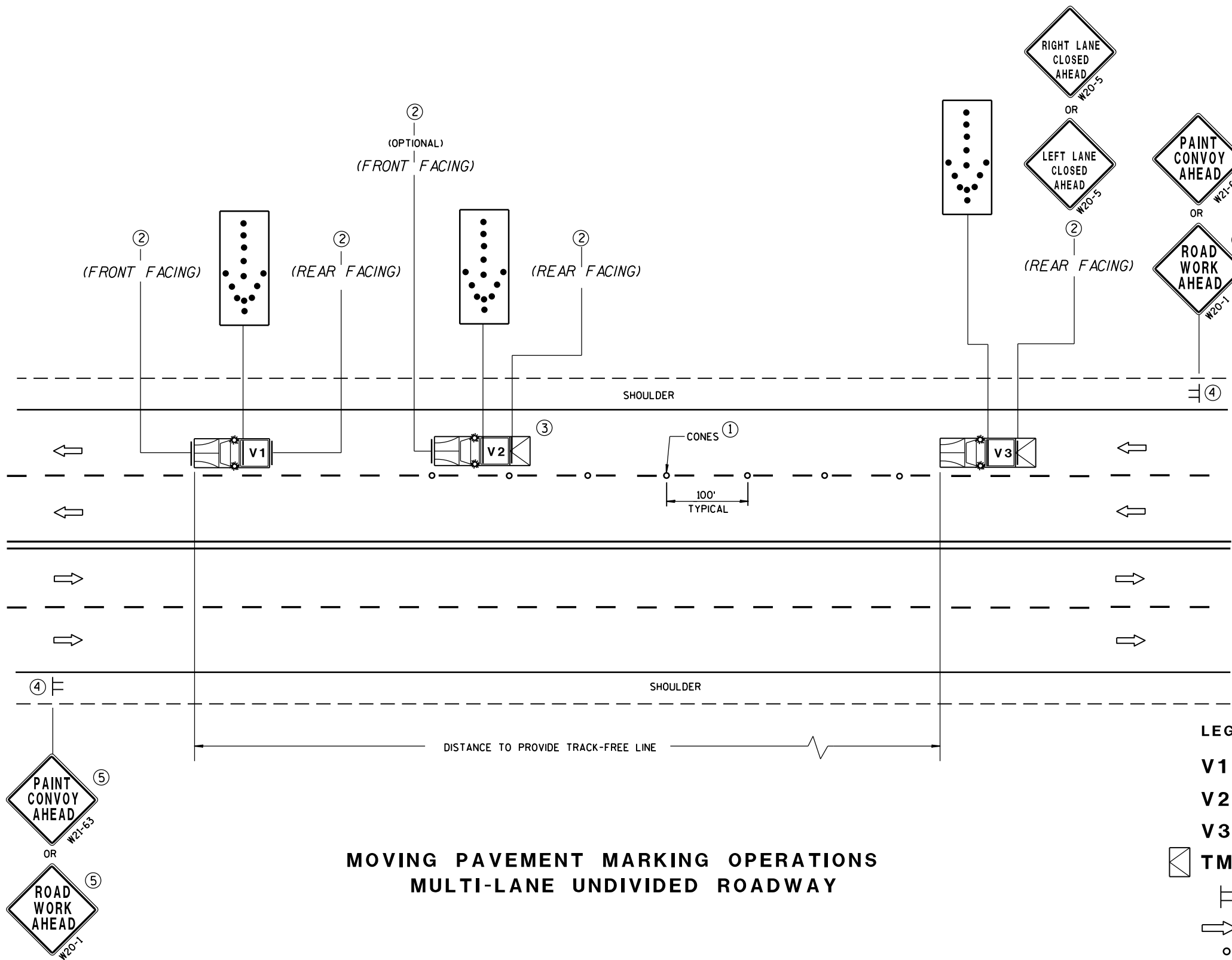
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/3/2013
DATE

FHWA

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

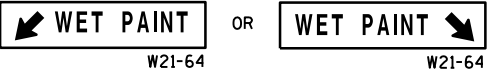


MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE UNDIVIDED ROADWAY

GENERAL NOTES

- ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.
- ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.
- IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.
- ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.
- DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.
- WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.
- USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.
- FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH.
- WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.
- THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE OR LANELINE MARKING FOR MULTILANE UNDIVIDED ROADWAYS.

- ① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.
- ② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.
- ③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.
- ④ SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.



LEGEND

- V1 LEAD VEHICLE
- V2 SHADOW VEHICLE
- V3 TRAIL VEHICLE WITH TMA
- TMA TRUCK-MOUNTED ATTENUATOR
- Sign on temporary support
- Direction of traffic
- Cones
- Flashing arrow panel (merge)

MOVING PAVEMENT MARKING
OPERATION
MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/3/2013
DATE

/s/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

<http://www.dot.wisconsin.gov>