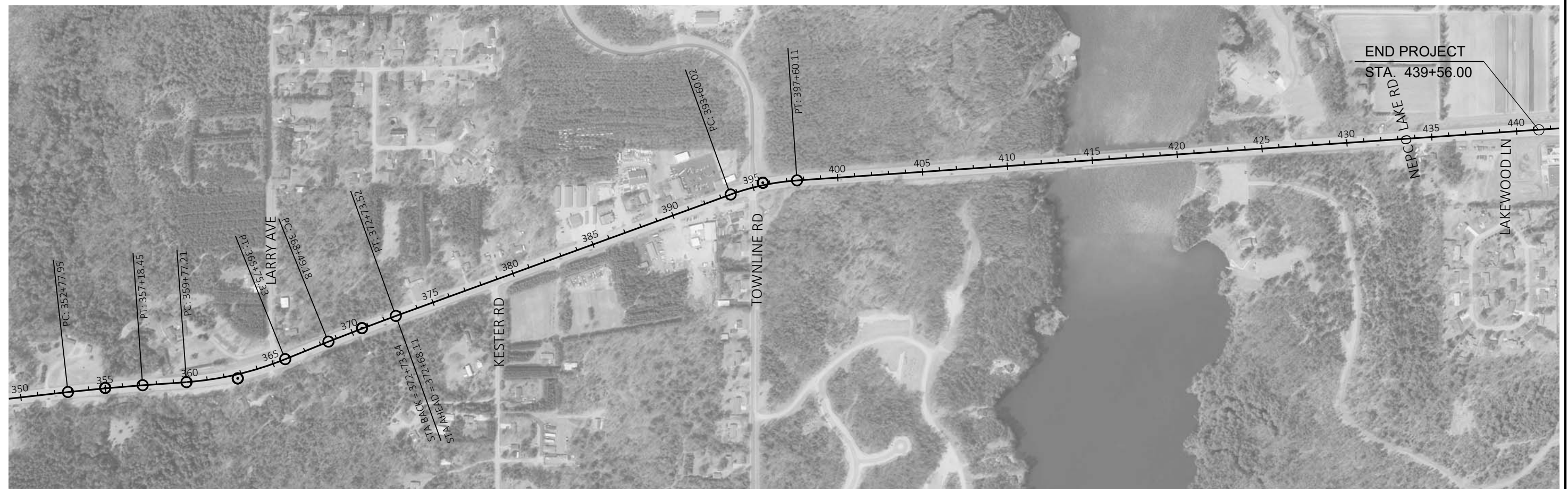


E

2	GENERAL NOTES		UTILITIES		COMMUNICATIONS	2
	LOCATIONS OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.UTILITY FACILITIES WILL BE RELOCATED AS DESCRIBED IN THE SPECIAL PROVISIONS.		ELECTRIC		ALLIANT ENERGY - ELECTRIC MICHAEL PEETERS 2710 JEFFERSON STREET WISCONSIN RAPIDS, WI 54495 TELEPHONE: (715) 424-7039 EMAIL: MICHAELPEETERS@ALLIANTENERGY.COM	CHARTER COMMUNICATIONS JESSE GRUNY 503 EAST IVES ST SUITE 316 MARSHFIELD, WI 54449 TELEPHONE: (715) 898-1616 MOBILE PHONE: (715) 651-5605
	NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.					
	CURB & GUTTER RADII ARE BASED ON AERIAL AND ASBUILT INFORMATION AND REQUIRE FIELD VERIFICATION.					SOLARUS-COMMUNICATION LINE DENNIS PIERCE 440 E. GRAND STREET WISCONSIN RAPIDS, WI 54494 TELEPHONE: (715) 572-0152 EMAIL: PIERCE@SOLARUS.NET
	UTILITY REFERENCE LINES ON THE CROSS SECTIONS ARE FOR HORIZONTAL REFERENCE ONLY.					
	CONCRETE PAVEMENT REPAIR AND CURB REPAIR LOCATIONS IDENTIFIED IN THE PLAN ARE BASED ON A FIELD SURVEY COMPLETED IN 2017 AND ARE APPROXIMATE.					
	ACTUAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.					
	THE PROJECT REFERENCE LINE IS BASED ON ASBUILT PLAN INFORMATION. THE LOCATION OF THE REFERENCE LINE MAY VARY SLIGHTLY FROM THE ACTUAL CENTER OF THE EXISTING MEDIAN.		GAS		ALLIANT ENERGY - GAS / PETROLEUM MICHAEL BROLIN SUITE 1000 4902 N. BILTMORE LANE MADISON, WI 53718 TELEPHONE: (608) 458-4871 EMAIL: MICHAELBROLIN@ALLIANTENERGY.COM	SEWER CITY OF WISCONSIN RAPIDS JOE EICHSTEADT 444 W. GRAND AVE WISCONSIN RAPIDS, WI 54495 TELEPHONE: (715) 421-8251 MOBILE PHONE: (715) 315-0062
	THE MINIMUM LENGTH OF CONCRETE CURB REPAIRS SHALL BE 4-FEET.					
	EXISTING RIGHT-OF-WAY AND PROPERTY LINES SHOWN IN THE PLAN ARE APPROXIMATED BASED ON WOOD COUNTY GIS DATA.					
PAYMENT FOR REMOVING CURB AND REMOVING CURB & GUTTER FROM STA 338+00 TO STA 439+00 WILL BE PAID FOR AS REMOVING PAVEMENT. ANY ADDITIONAL CURB & GUTTER REMOVALS DEEMED NECESSARY FOLLOWING PAVEMENT REMOVAL WILL BE PAID SEPERATELY AS REMOVING CURB & GUTTER.						
BETWEEN THE SOUTH PROJECT LIMITS AND RANGER ROAD, PAVEMENT MARKING FOR LEFT TURN LANES WILL FOLLOW EXISTING PAVEMENT MARKING. FOR ALL TWO-WAY LEFT TURN LANE MARKING AND FOR LEFT TURN LANES BETWEEN RANGER ROAD AND NORTH PROJECT LIMITS (PAVEMENT REPLACEMENT LIMITS), PAVEMENT MARKING WILL UTILIZE SDD PAVEMENT MARKING (TURN LANES).						
		WATER		WE ENERGIES - GAS / PETROLEUM RYAN MIENTKE 1921 EIGHTH ST S. WISCONSIN RAPIDS, WI 54495 TELEPHONE: (715) 421-7249 MOBILE PHONE: (715) 421-9293 EMAIL: RYAN.MIENTKE@ALLIANTENERGY.COM		
				WISCONSIN RAPIDS WATER WORKS & LIGHT COMMISSION ELECTRICITY TODD WEILER 4464 HAFERMANN HEIGHTS WISCONSIN RAPIDS, WI 54495 TELEPHONE: (715) 422-9013 MOBILE PHONE: (715) 252-3408 EMAIL: TODD.WEILER@WRWWLC.COM		
 Dial  or (800) 242-8511 www.DiggersHotline.com						ORDER OF "SECTION 2" SHEETS SHEET TITLE GENERAL NOTES PROJECT OVERVIEW TYPICAL SECTIONS CONSTRUCTION DETAILS PAVING DETAILS EROSION CONTROL PAVEMENT MARKING TRAFFIC CONTROL AND STAGING
PROJECT NO: 6140-00-82		HWY: STH 13	COUNTY: WOOD	GENERAL NOTES	SHEET: 2 E	



PROJECT NO: 6140-00-82

HWY: STH 13

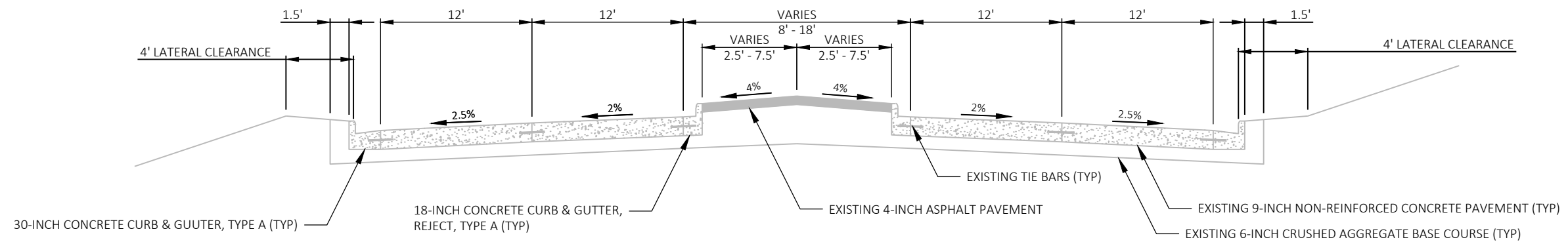
COUNTY: WOOD

PROJECT OVERVIEW: STH 13

SHEET

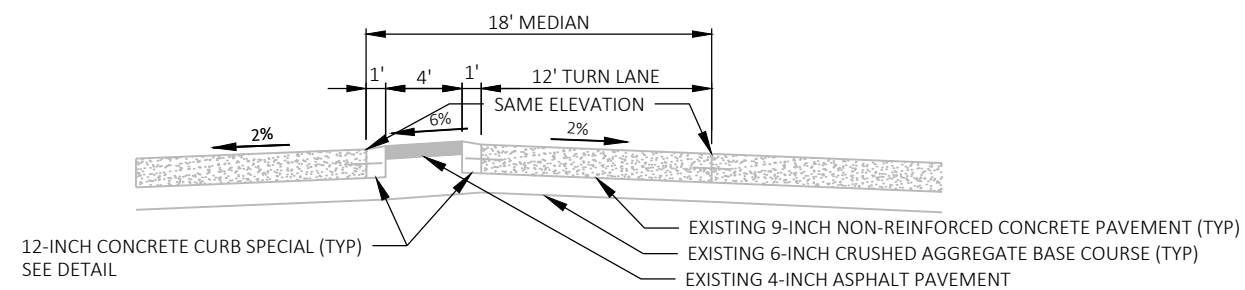
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E

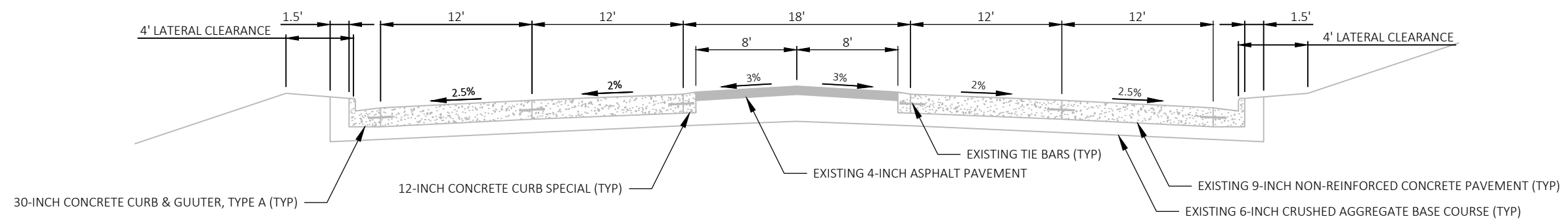


EXISTING TYPICAL SECTION FOR STH 13

STA 395+00 TO STA 433+50

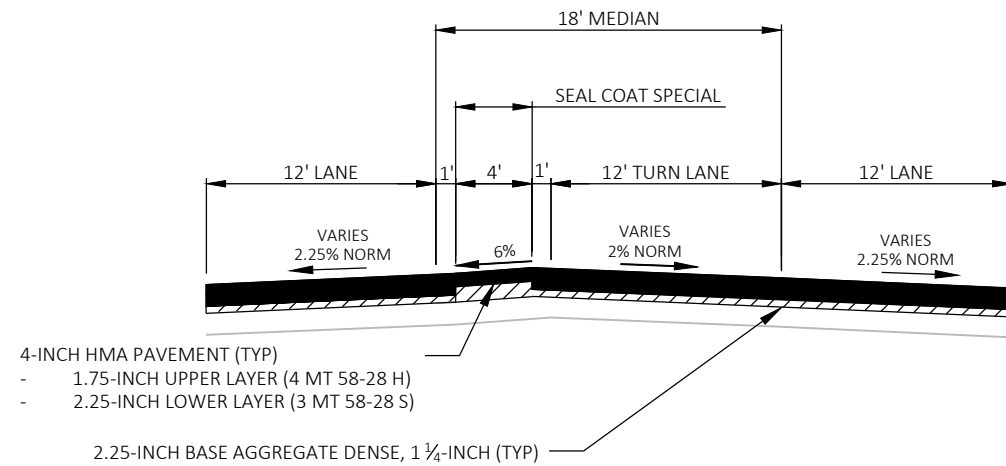
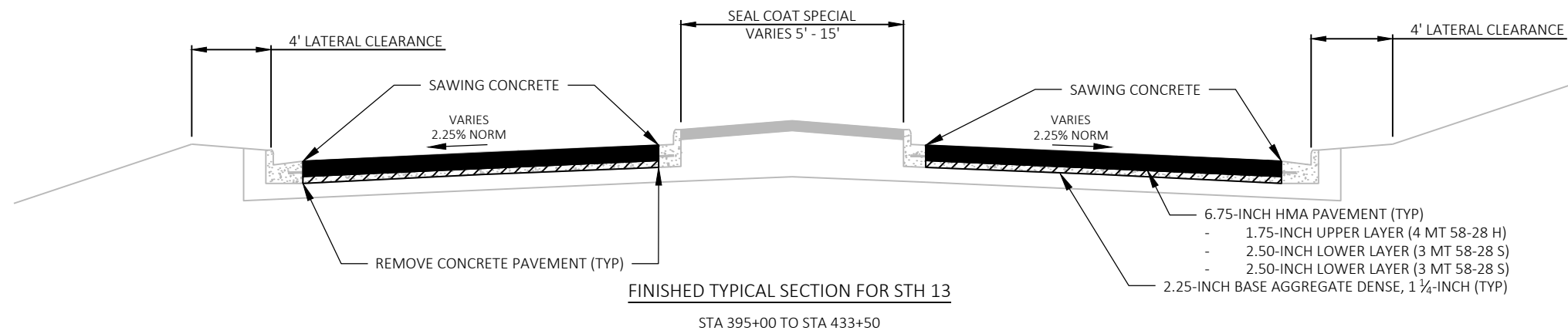


EXISTING TYPICAL TURN LANE

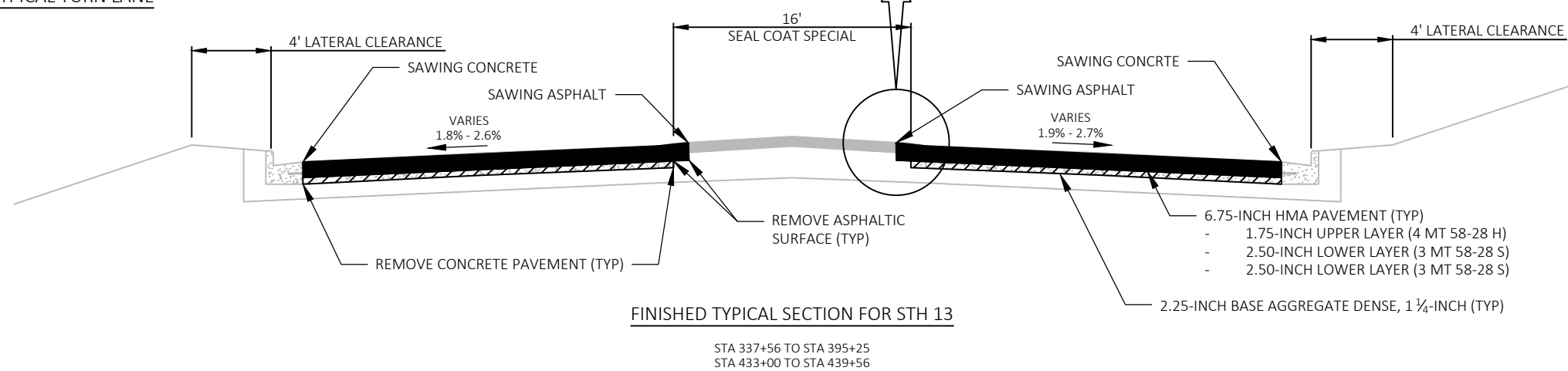
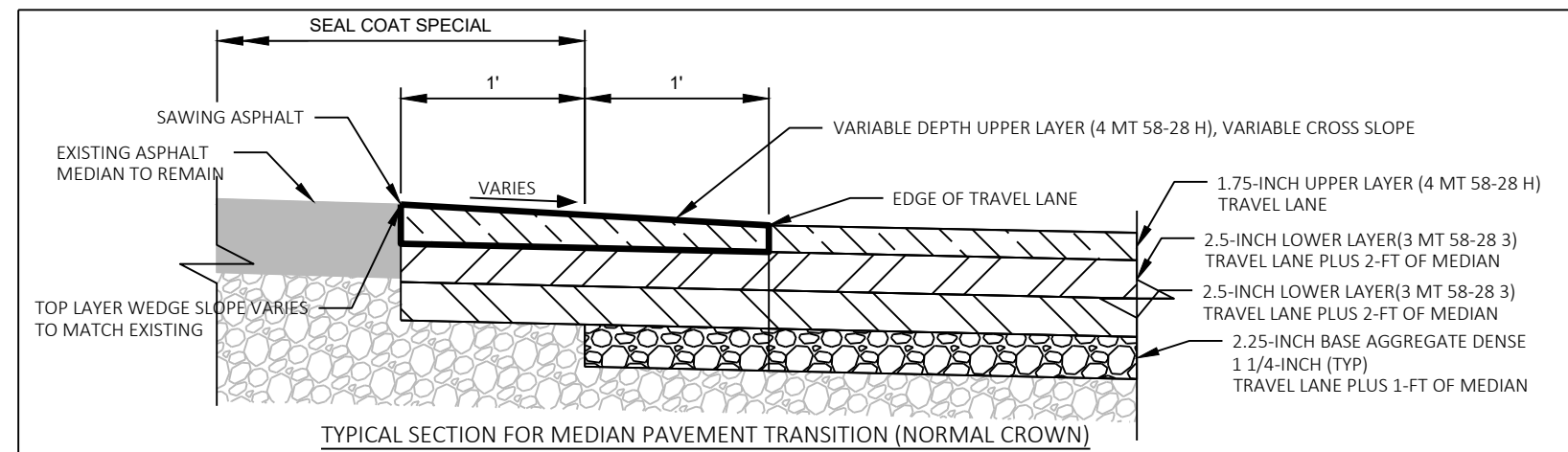


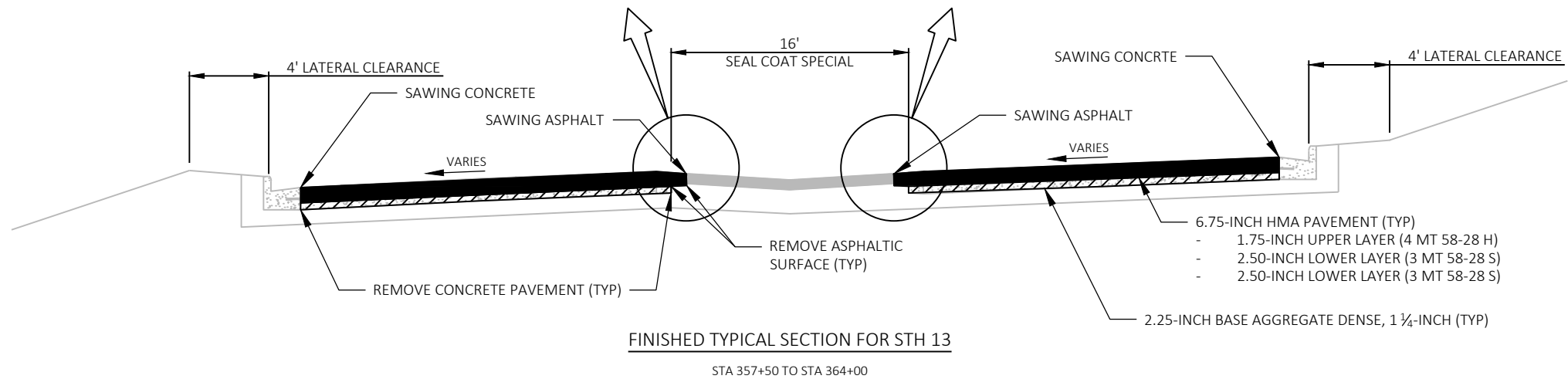
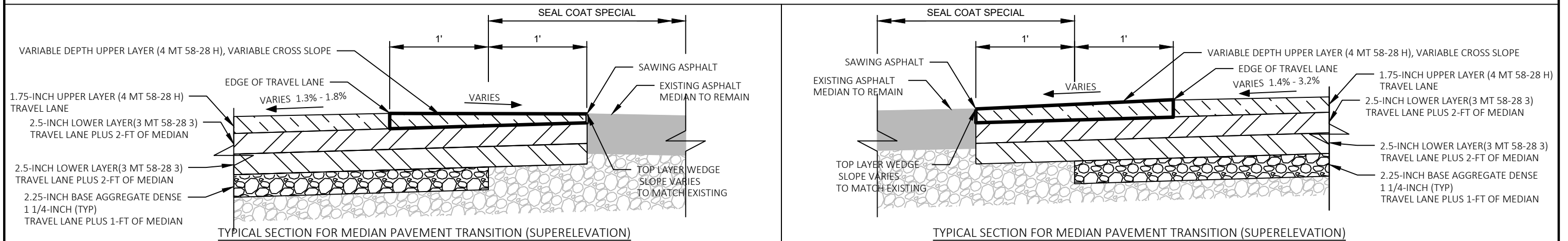
EXISTING TYPICAL SECTION FOR STH 13

STA 274+00 TO STA 395+00
STA 433+50 TO STA 439+56



PROPOSED TYPICAL TURN LANE





2

COMPACTED BACKFILL

EXISTING GROUND

EXISTING BASE AGGREGATE

APPROX. 1'

TOPSOIL, EROSION MAT URBAN CLASS I TYPE A, FERTILIZER TYPE B, SEED (NO 30 OR 40)

NEW CURB & GUTTER

RESTORATION FOR CURB REPLACEMENT

2

EBS LIMITS 2' BEHIND CURBS

SAWCUT 4' BEHIND CURB

EXCAVATION COMMON

BACKFILL EBS WITH BACKFILL GRANULAR GRADE 1

STA 406+50

STA 406+75

STA 407+30

STA 407+55

EXISTING CONCRETE PAVEMENT

EXISTING BASE AGGREGATE

EXISTING SUBGRADE

EBS FROST HEAVE AREA

STA 406+50 TO STA 407+55

SAWING ASPHALT

2'

1'

12:1

SAWING CONCRETE

EXISTING 9-INCH CONCRETE TO REMAIN

9"

1'

DRILLED TIE BAR #6

12-INCH CONCRETE CURB & GUTTER SPECIAL SPOT REPAIRS

STH 73 - RANGER RD.

SAWING ASPHALT

2'

HMA PAVEMENT (SEE TYPICAL SECTIONS)

CONCRTE CURB & GUTTER 18-INCH TYPE D SPOT REPAIRS

TOWNLINE RD. - NEPCO LAKE RD.

ROADSIDE

SILT FENCE

OPENING

12" MIN

18" MAX

30" MIN

36" MAX

10'

TEMPORARY SMALL ANIMAL BARRIER

NOTES:
SILT FENCE POSTS FOR THE TURN-AROUND SHOULD BE ON THE OUTSIDE OF THE TURN-AROUND AND TRENCHED IN ACCORDING TO SILT FENCE REQUIREMENTS.

SAWING ASPHALT

1'

6.25%

4%

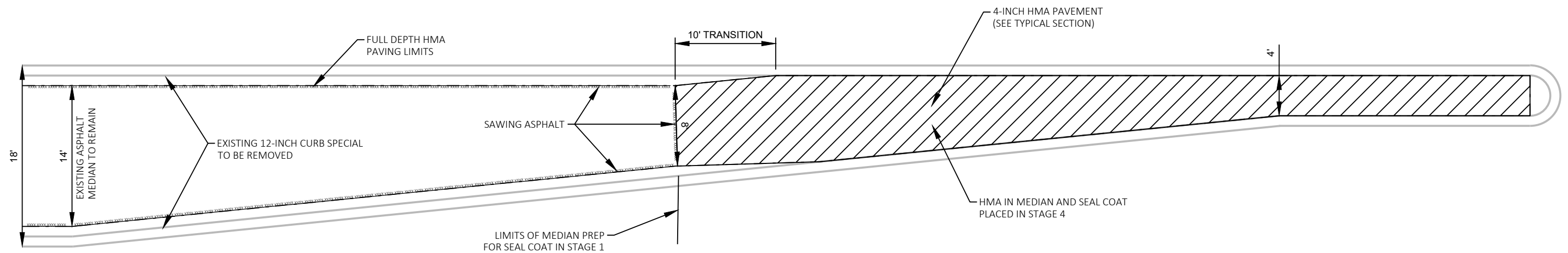
9.5'

4'

8'

48-INCH CONCRETE CURB & GUTTER SPECIAL

NEPCO LAKE ROAD INTERSECTION



HMA MEDIAN PAVING DETAIL

RANGER RD. - TOWNLINE RD.
NEPCO LAKE RD. - LAKEWOOD LANE

PROJECT NO: 6140-00-82

HWY: STH 13

COUNTY: WOOD

CONSTRUCTION DETAIL

SHEET

8

E

FILE NAME : F:\TR\JOBS\E2270A17\CIVIL 3D 2016\SHEETSPLAN\61400082-021001-CD.DWG
LAYOUT NAME - 61400082-021002-cd

61400082-021002-cd

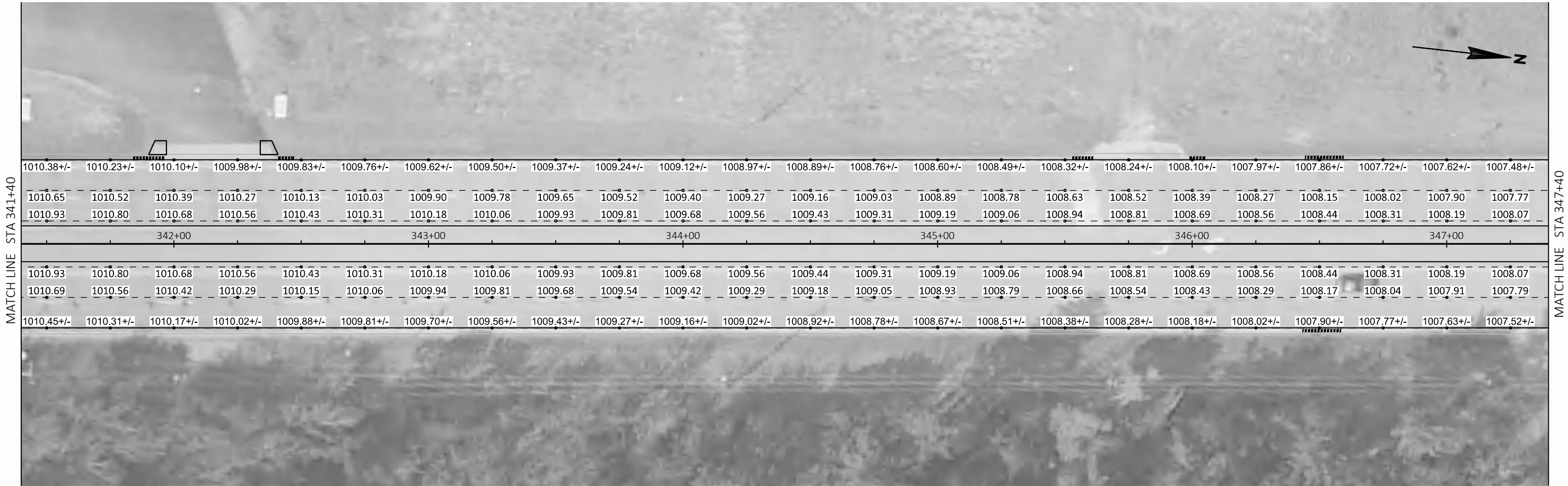
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PLOT BY : CRAIG KNUTH

PLOT NAME :

PLOT SCALE : #####

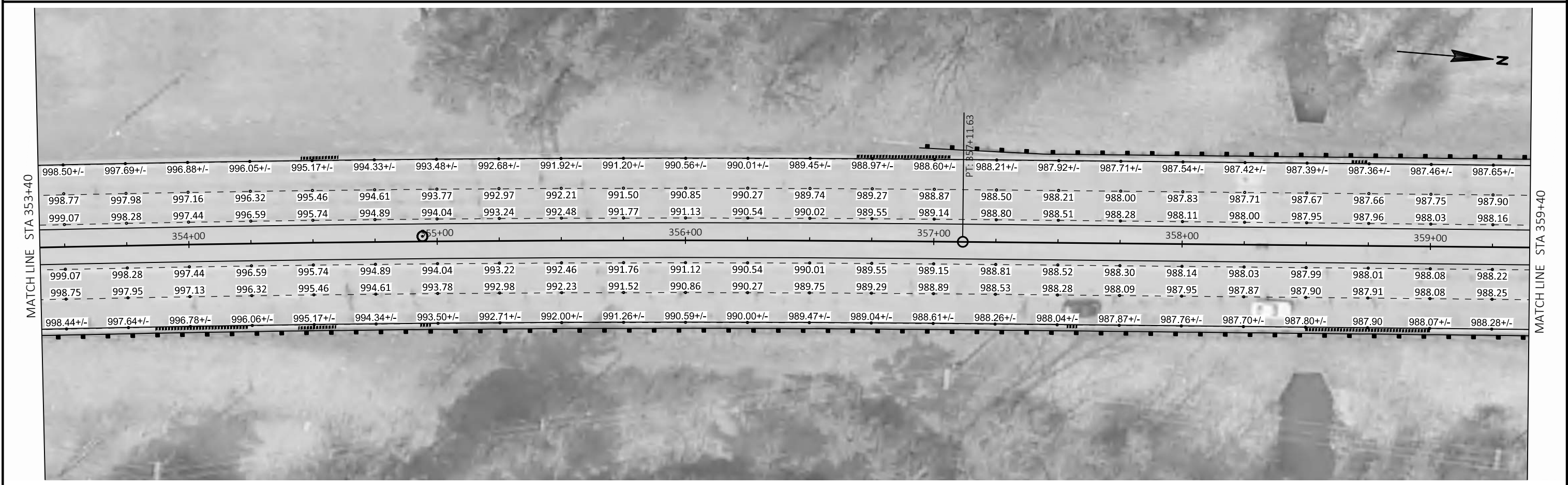
WISDOT/CADDs SHEET 42



2



2



PROJECT NO: 6140-00-82

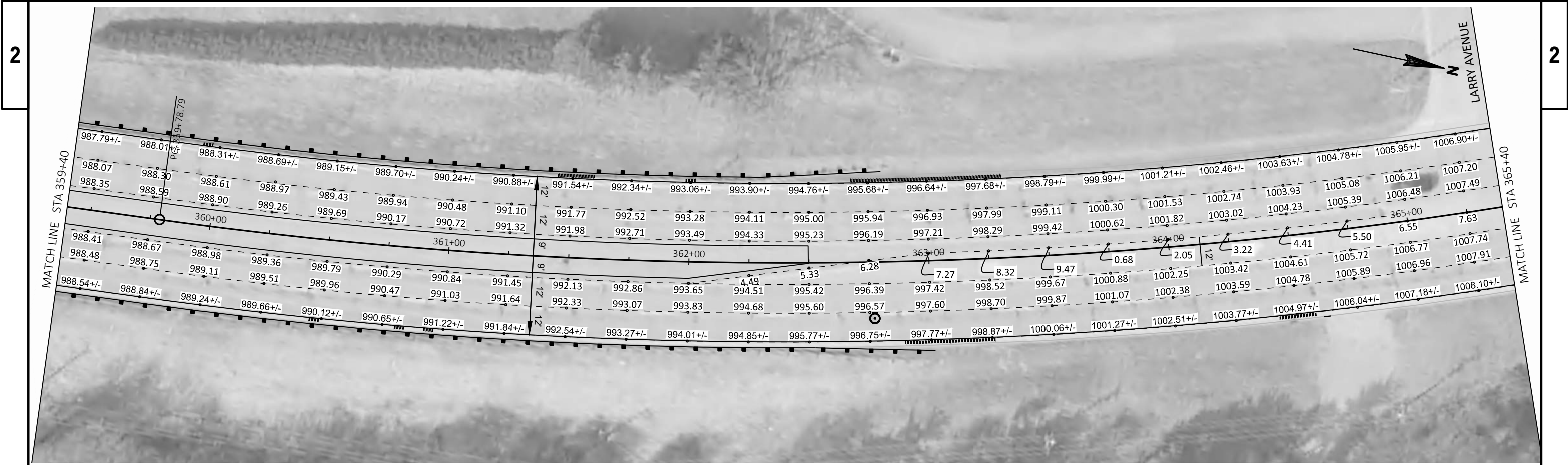
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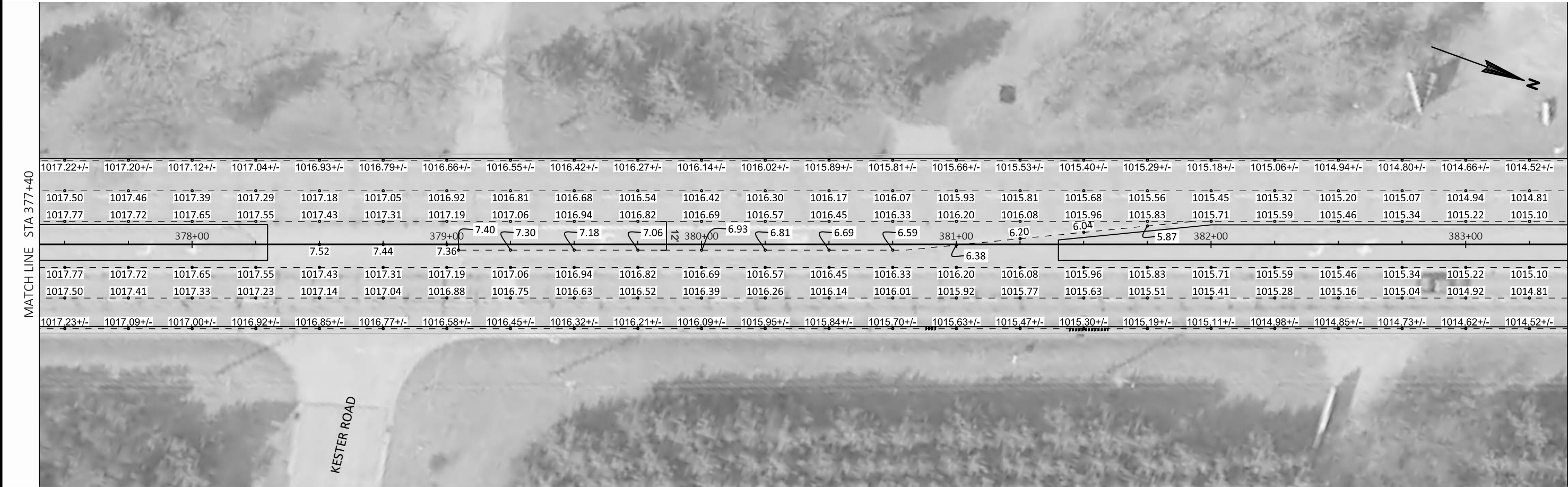
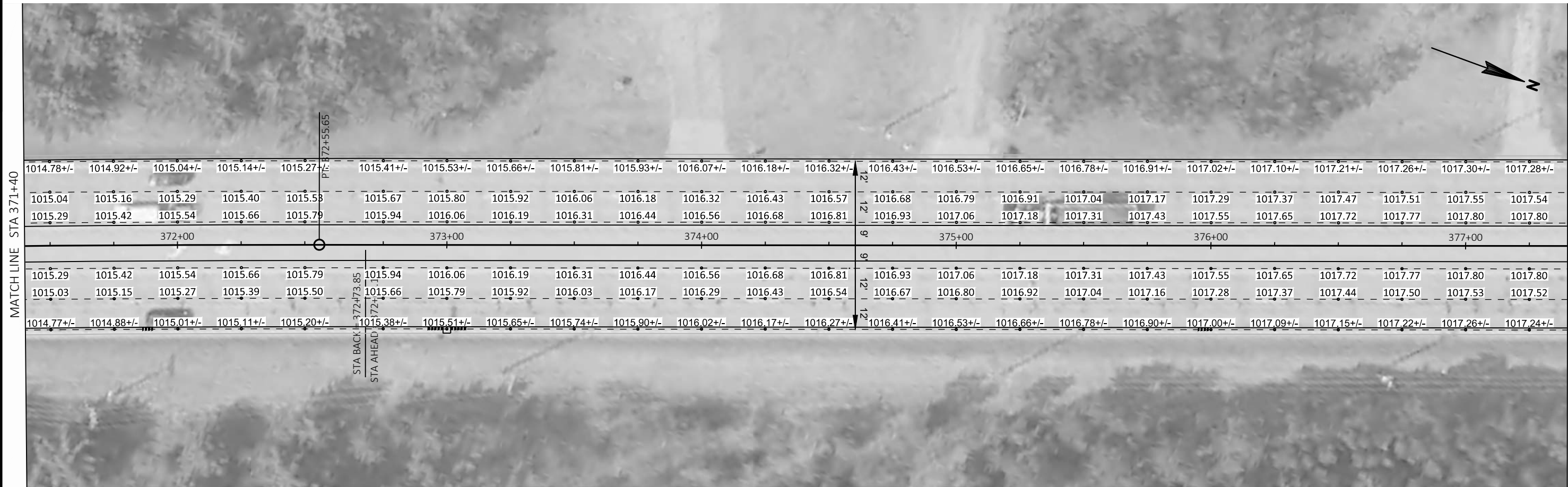
COUNTY: WOOD

PAVING DETAILS

SHEET	10	E
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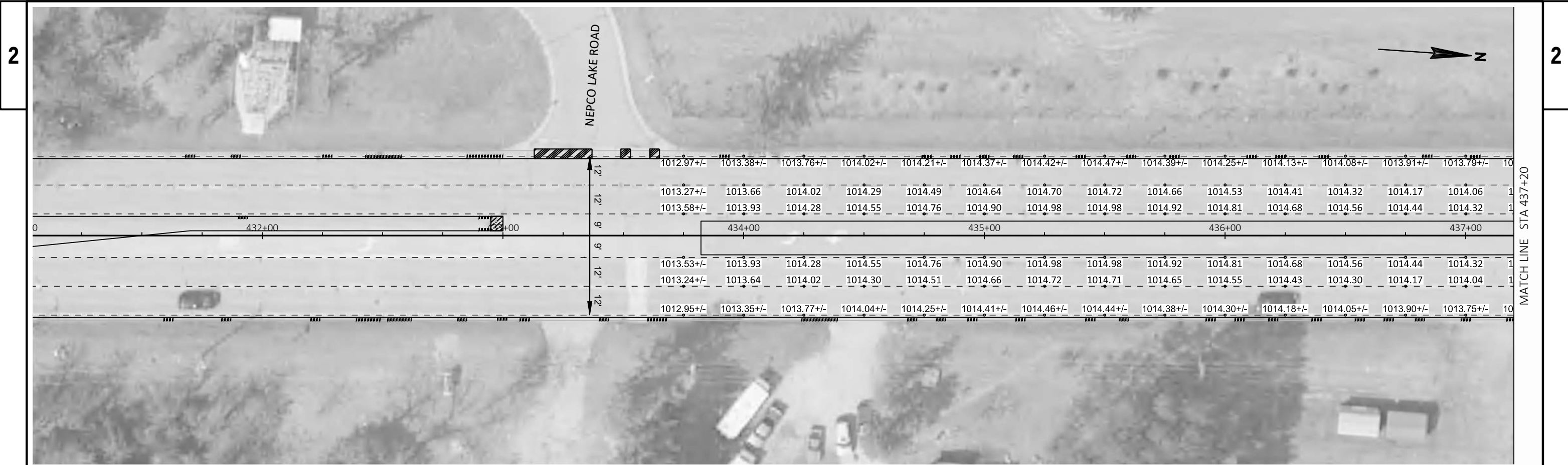
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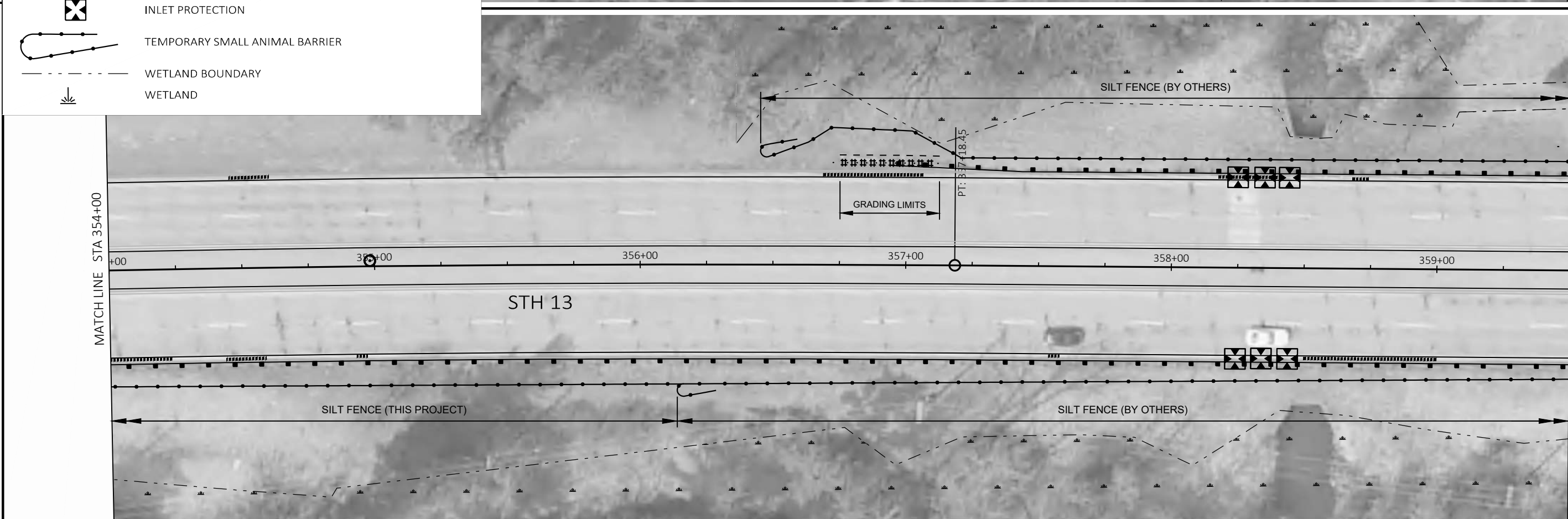
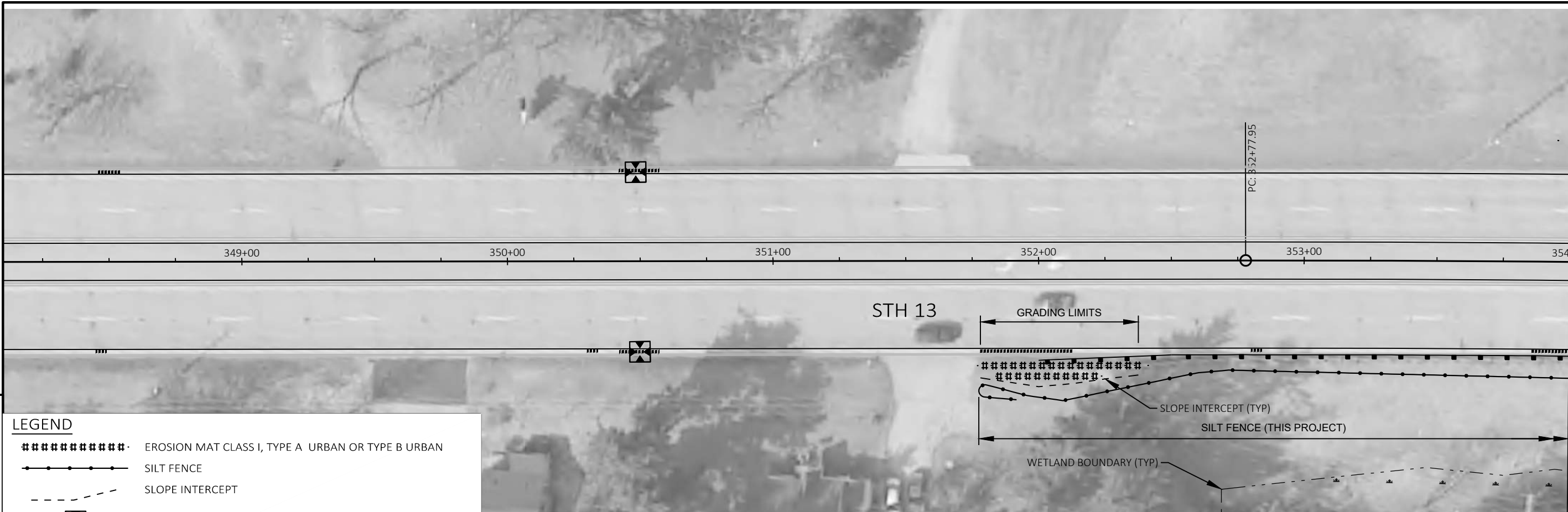


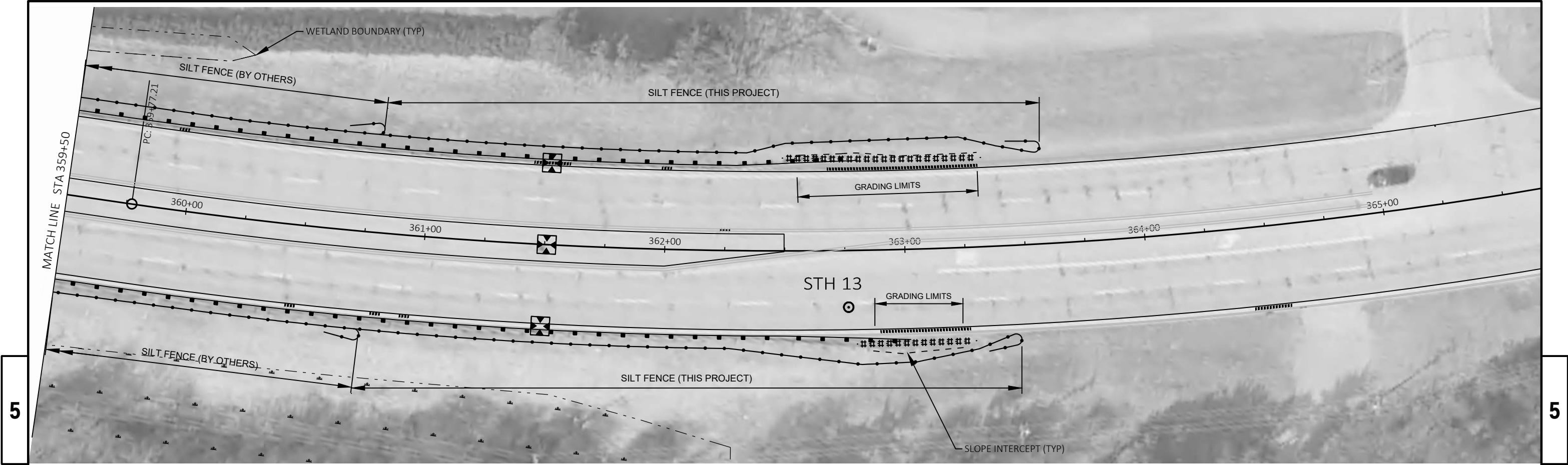






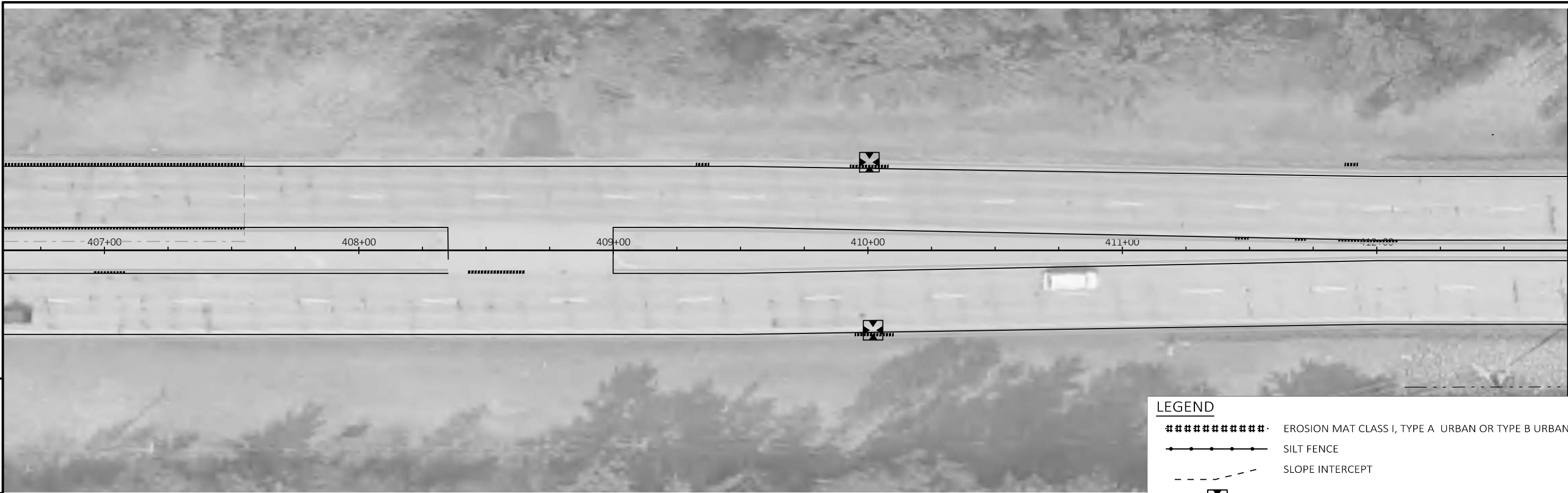






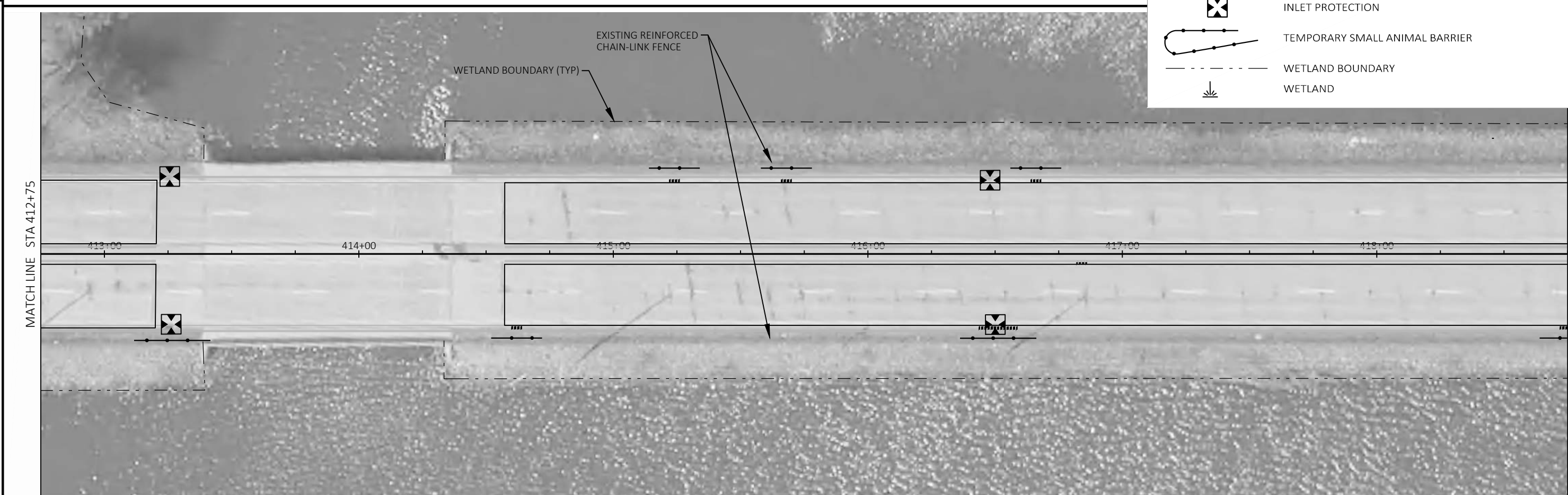
LEGEND	
#####	EROSION MAT CLASS I, TYPE A URBAN OR TYPE B URBAN
-----	SILT FENCE
-----	SLOPE INTERCEPT
⊗	INLET PROTECTION
⤿	TEMPORARY SMALL ANIMAL BARRIER
-----	WETLAND BOUNDARY
⬇	WETLAND

5



MATCH LINE STA 412+75

5



MATCH LINE STA 412+75

MATCH LINE STA 418+75



5

5

LEGEND

#####	EROSION MAT CLASS I, TYPE A URBAN OR TYPE B URBAN
—●—●—●—●—	SILT FENCE
- - - - -	SLOPE INTERCEPT
	INLET PROTECTION
	TEMPORARY SMALL ANIMAL BARRIER
- - - - -	WETLAND BOUNDARY
	WETLAND



PROJECT NO: 6140-00-82

HWY: STH 13

COUNTY: WOOD

PERMANENT SIGNING

SHEET

20

E

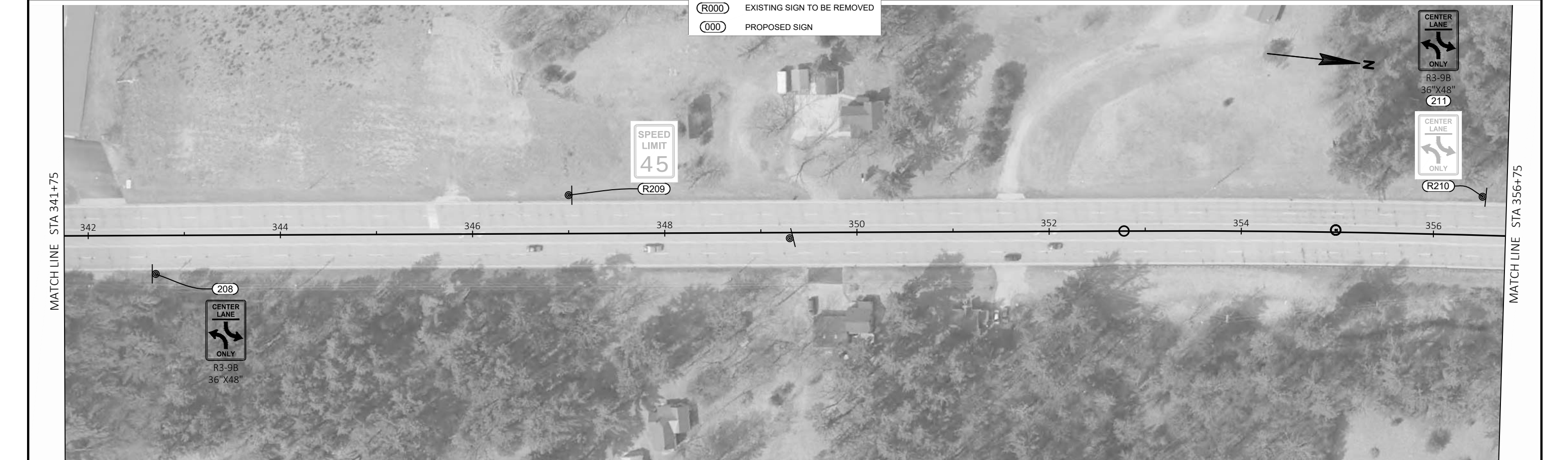
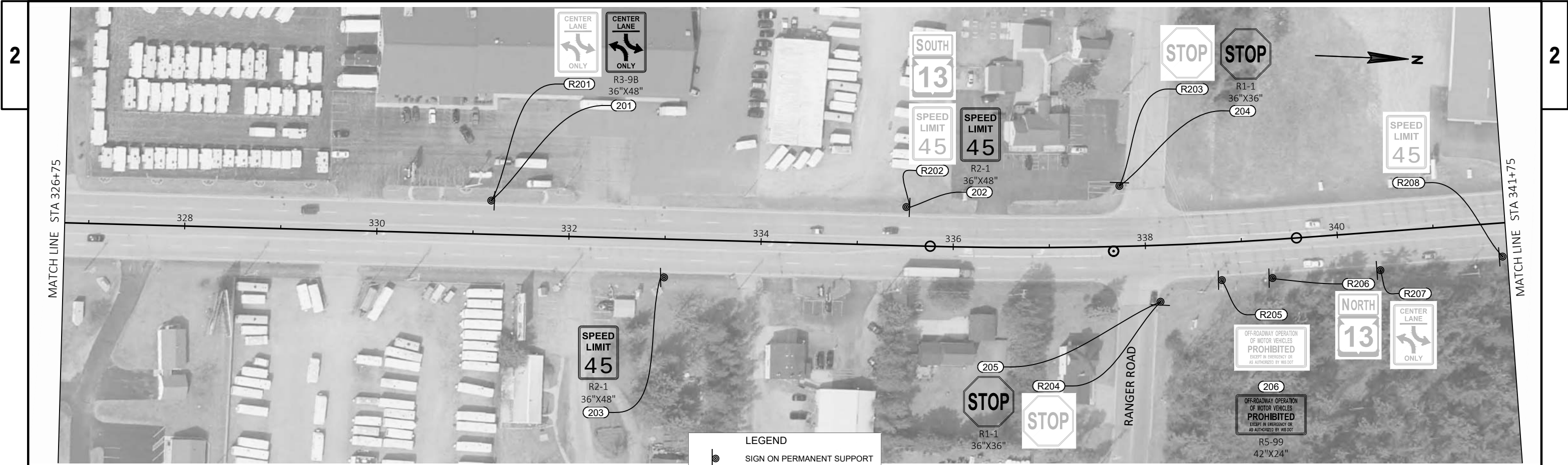
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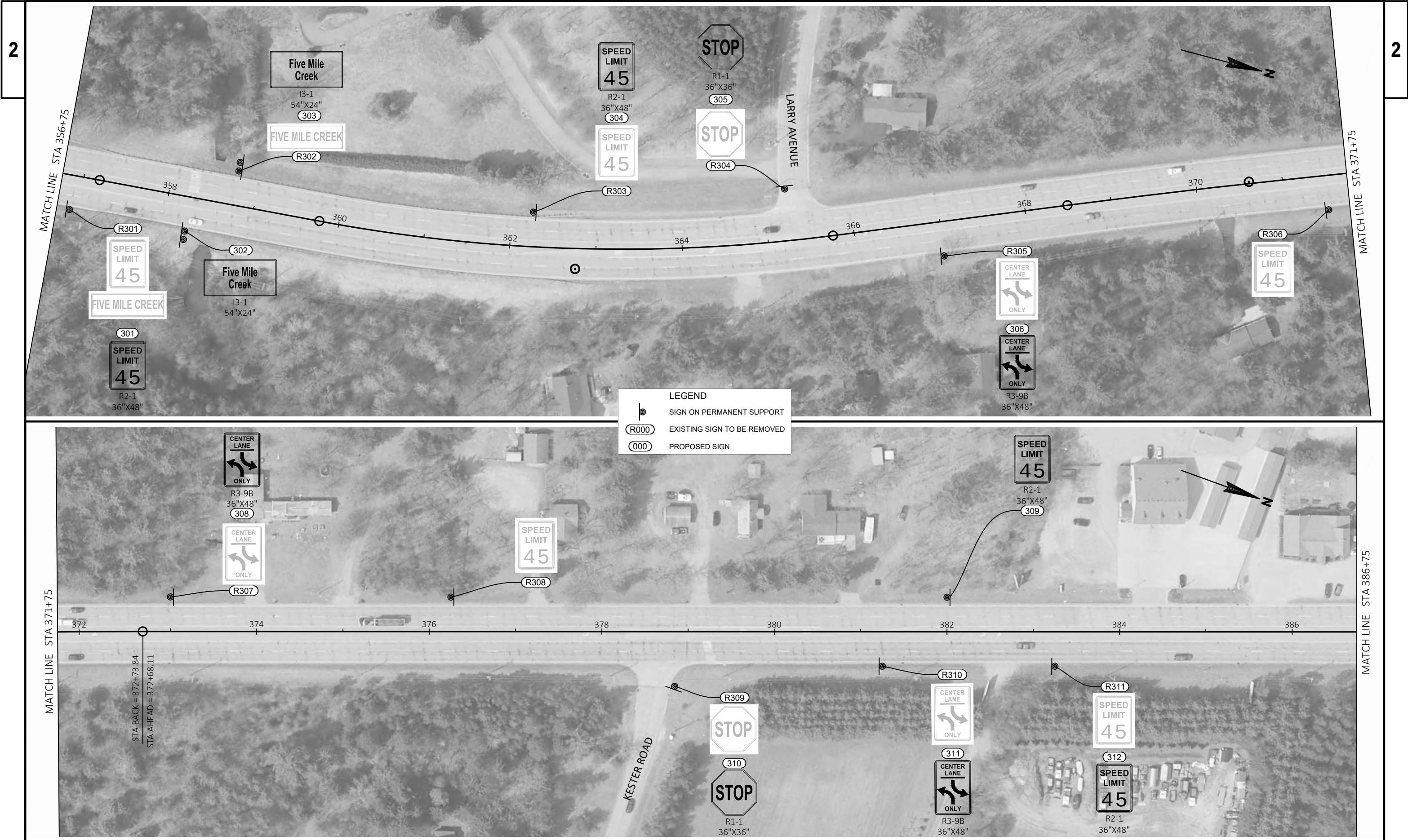
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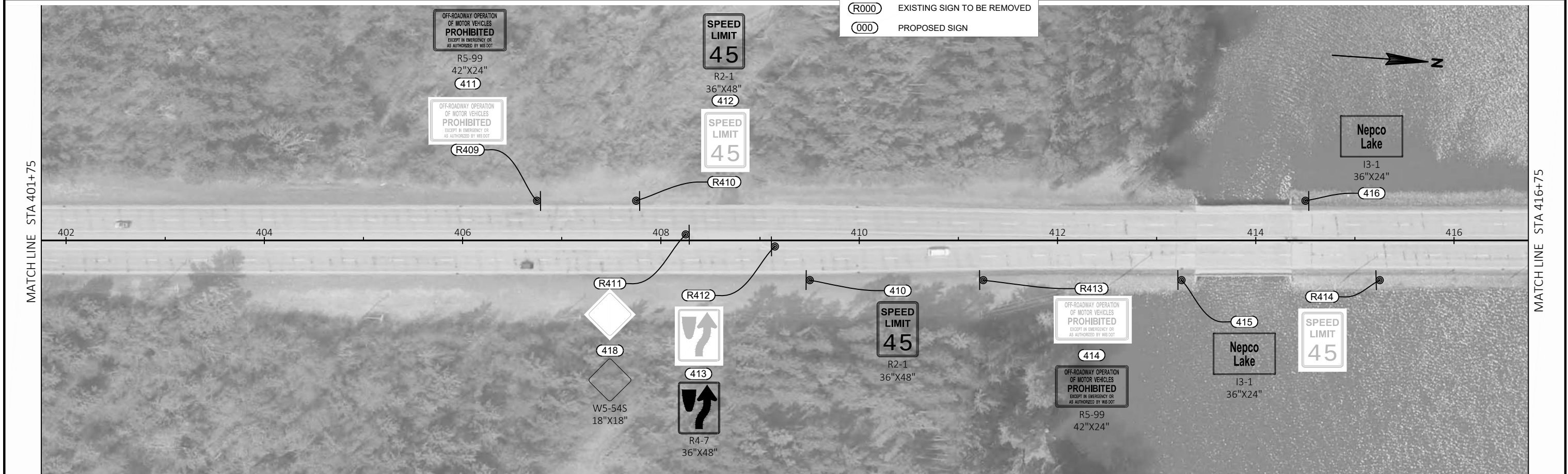
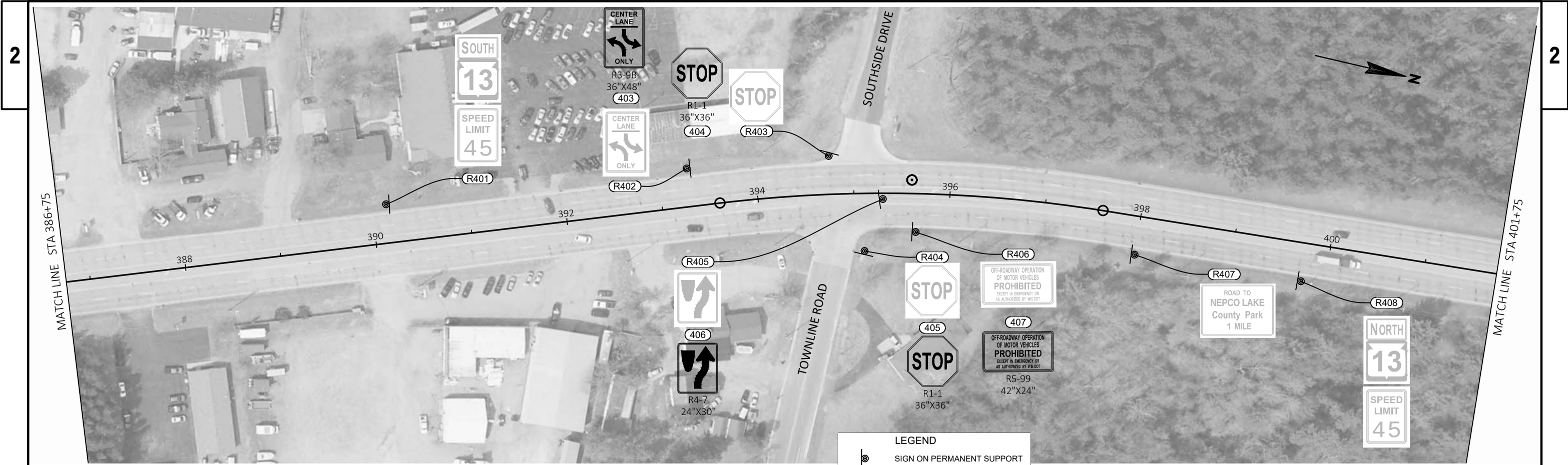
PLOT BY : OMNI ASSOCIATES - CRAIG KNUTH

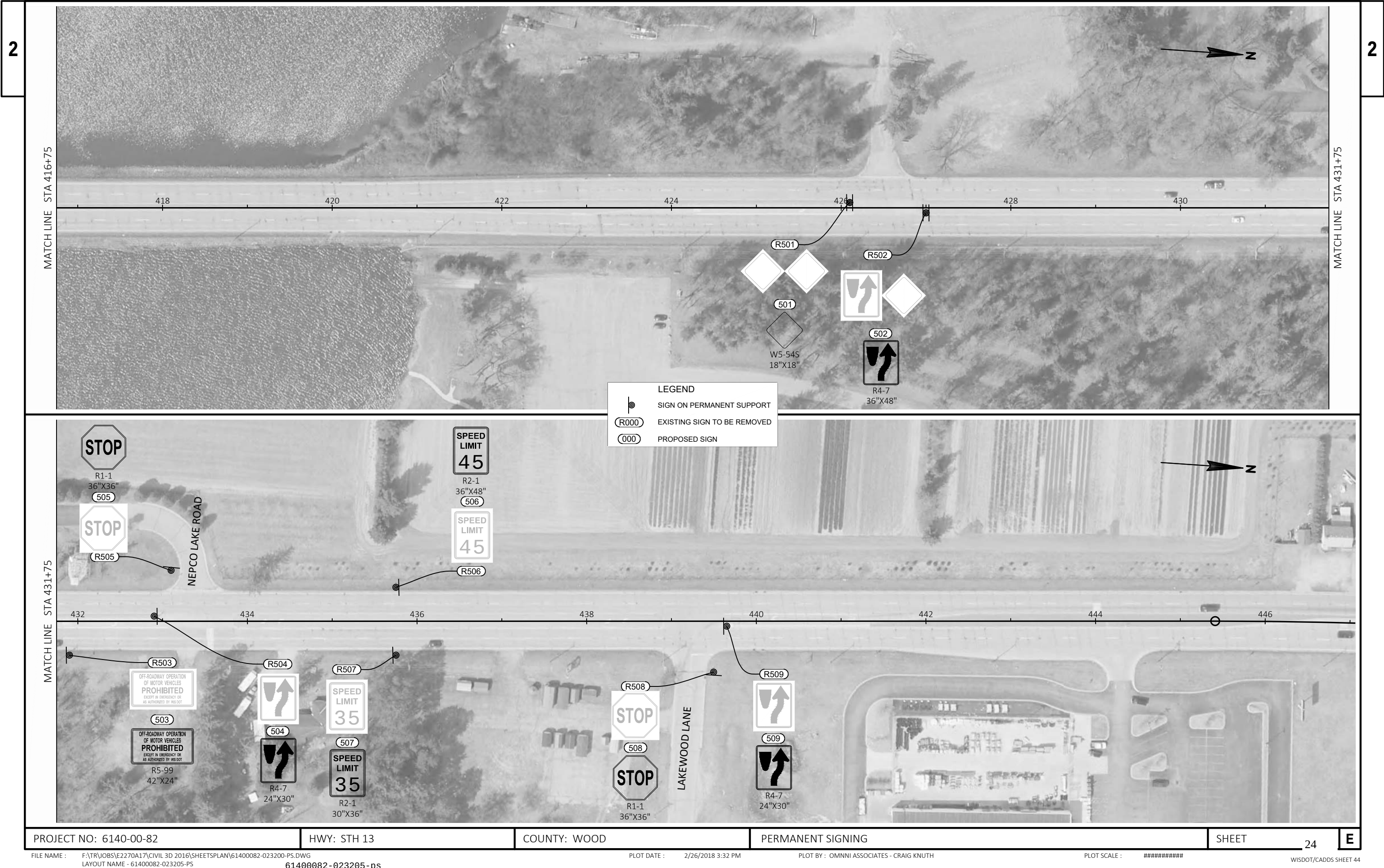
PLOT SCALE : #####

WISDOT/CADDs SHEET 44









PROJECT NO: 6140-00-82

HWY: STH 13

COUNTY: WOOD

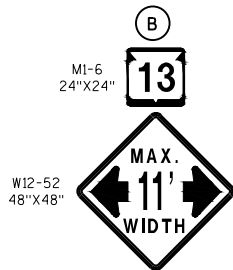
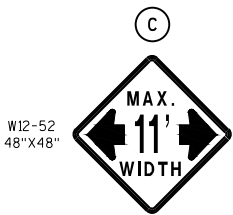
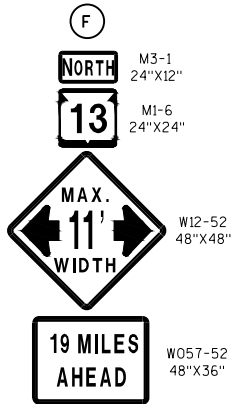
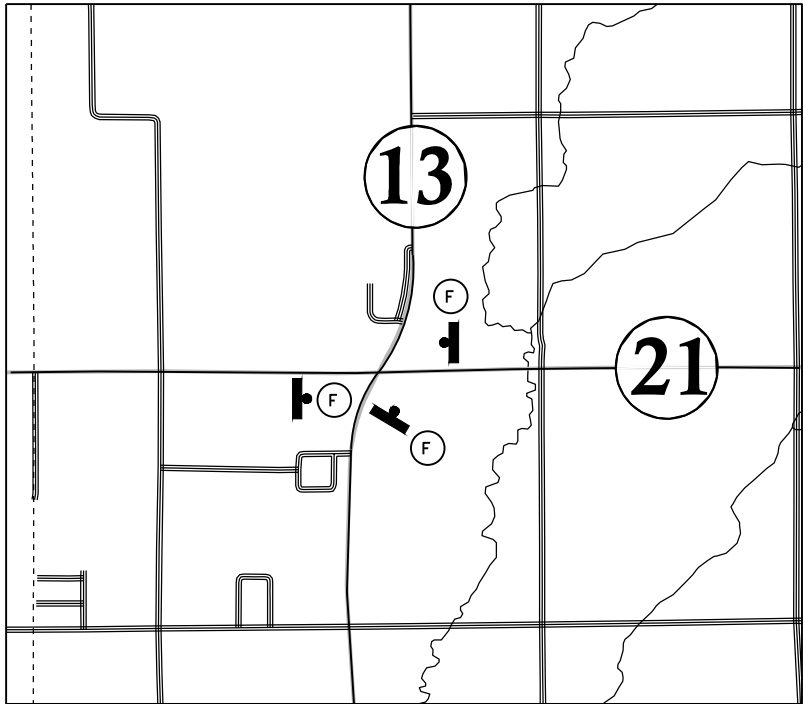
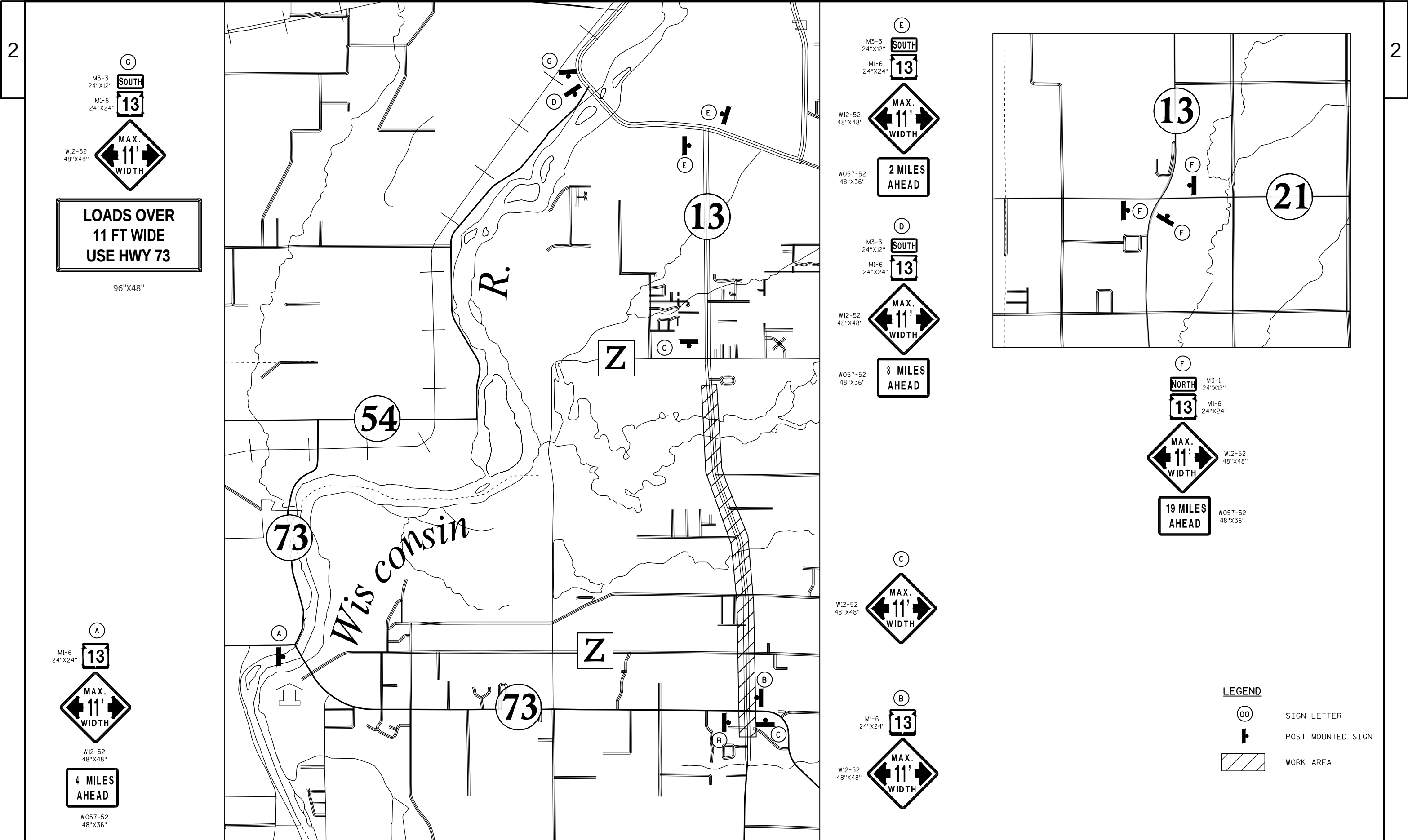
PERMANENT SIGNING

SHEET

24

E

2	TRAFFIC CONTROL GENERAL NOTES 1. DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON METHODS OR SEQUENCE OF OPERATIONS. 2. ADJUST SIGN SPACING TO AVOID CONFLICT WITH AND TO PROVIDE A MINIMUM SPACING OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS. 3. ALL SIGNS SHALL BE 48" x 48" UNLESS OTHERWISE NOTED. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. 5. ALL DETOUR ASSEMBLIES SHALL HAVE ORANGE DIRECTIONAL ARROWS. 6. ALL TRAFFIC CONTROL SIGNING WILL CONFORM TO THE WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. 7. CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM OF 1500 FEET IN FRONT OF DRUMS. 8. IF LANE CLOSURES ARE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS. 9. WARNING LIGHTS SHALL NOT BE WORKING ON "COVERED" OR "DOWNED" SIGN OR BARRICADE. 10. DURING HOURS OF DARKNESS, ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH TYPE "A" LIGHTS. 11. FOR NIGHTTIME OPERATION, ALL DRUMS IN TAPERS SHALL HAVE A TYPE C WARNING LIGHT. 12. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED APPROXIMATELY 1 MILE IN ADVANCE OF THE PROJECT, ONE WEEK IN ADVANCE OF INITIAL LANE CLOSURE AND AS NEEDED THROUGHOUT THE PROJECT. 13. LAYOUT INFORMATION PROVIDED IS NOT INTENDED TO REPLACE WHAT IS PROVIDED IN APPLICABLE STANDARD DETAIL DRAWINGS. 14. SEE ADDITIONAL TRAFFIC CONTROL DETAIL SHEETS AND STANDARD DETAIL DRAWINGS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.	2					
PROJECT NO: 6140-00-82			HWY: STH 13	COUNTY: WOOD	TRAFFIC CONTROL GENERAL NOTES	SHEET: 25	E



- LEGEND**
- SIGN LETTER
 - POST MOUNTED SIGN
 - WORK AREA

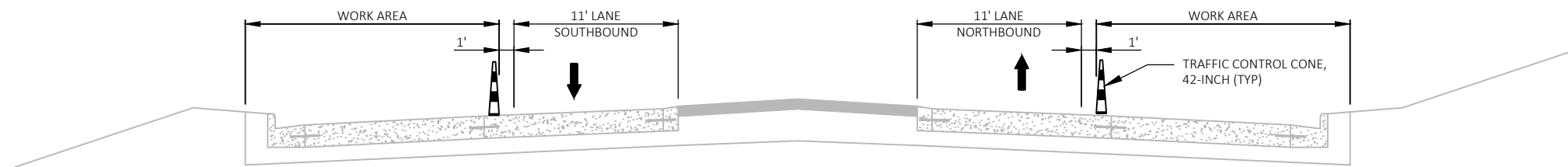


NOTES:

- (A) USE SDD "TRAFFIC CONTROL ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" - TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL
- (B) USE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" - DETAIL 1 DURING CLOSURE

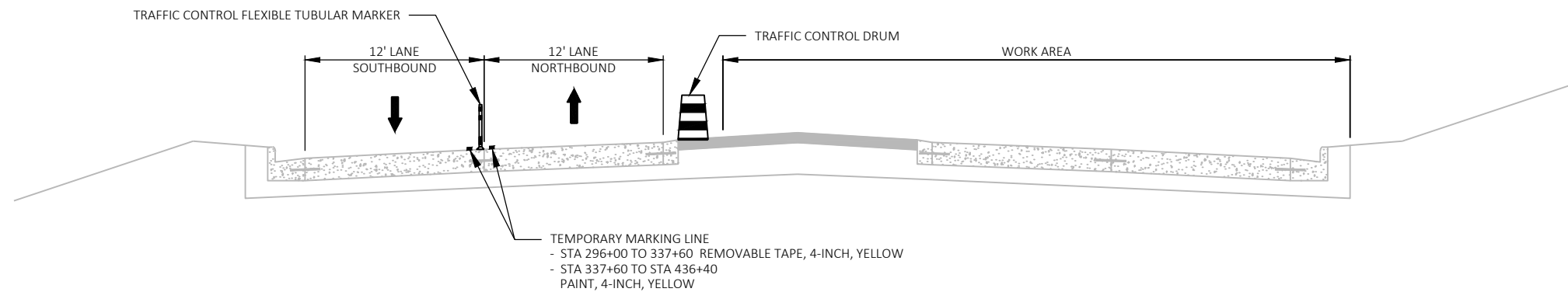
**NOTES:**

- (A) USE SDD "TRAFFIC CONTROL ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" - TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL
- (B) USE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" - DETAIL 1 DURING CLOSURE



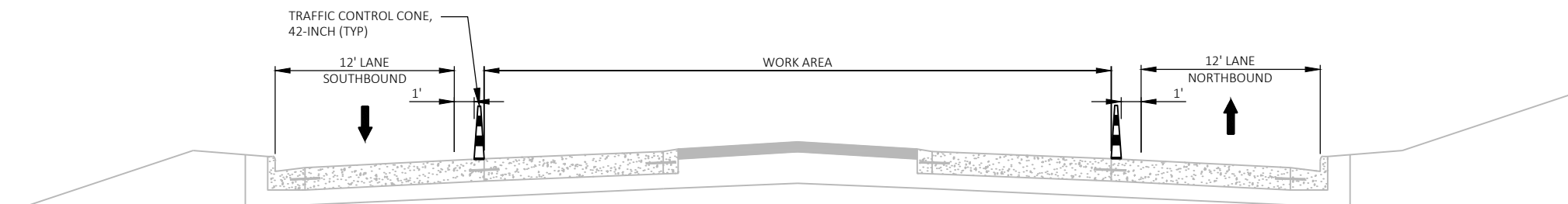
TRAFFIC CONTROL - TYPICAL SECTION - STAGE 2

STA 274+00 TO STA 292+94



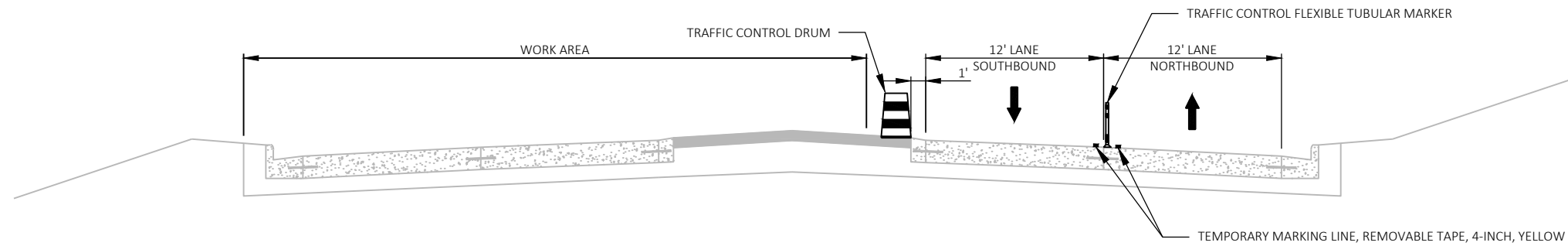
TRAFFIC CONTROL - TYPICAL SECTION - STAGE 2

STA 296+00 TO STA 436+40



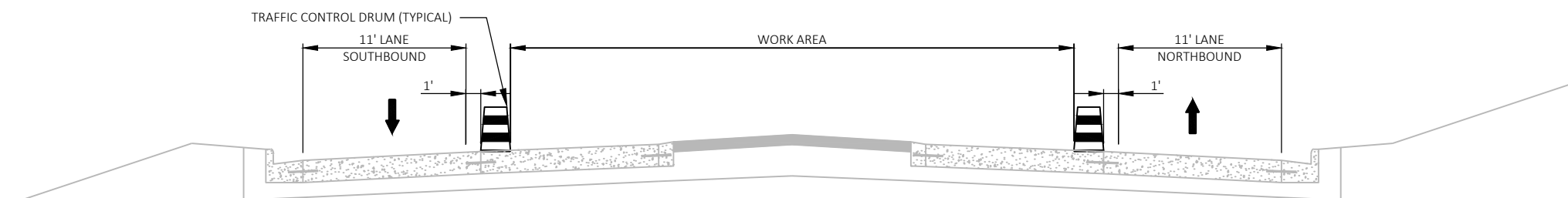
TRAFFIC CONTROL - TYPICAL SECTION - STAGE 3

STA 274+00 TO STA 292+94



TRAFFIC CONTROL - TYPICAL SECTION - STAGE 3

STA 295+75 TO STA 436+20



TRAFFIC CONTROL - TYPICAL SECTION - STAGE 4

STA 274+00 TO STA 436+00

TRAFFIC CONTROL LEGEND



TRAFFIC CONTROL DRUMS



TRAFFIC CONTROL DRUMS WITH TYPE "C" WARNING LIGHT



TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS WITH DOUBLE YELLOW CENTERLINE MARKING (SEE TYPICAL SECTION)



TRAFFIC CONTROL CONES, 42-INCH



TYPE III BARRICADE, WITHOUT & WITH SIGN



SIGN ON TEMPORARY SUPPORT



SIGN ON PERMANENT SUPPORT



TRAFFIC FLOW DIRECTION

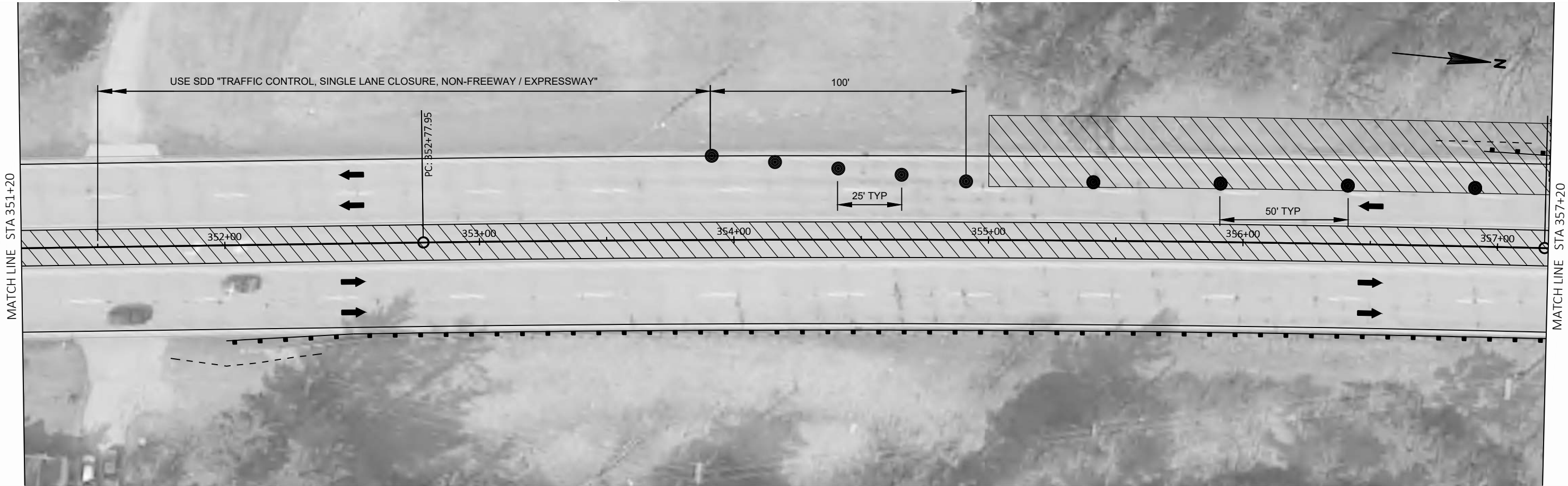


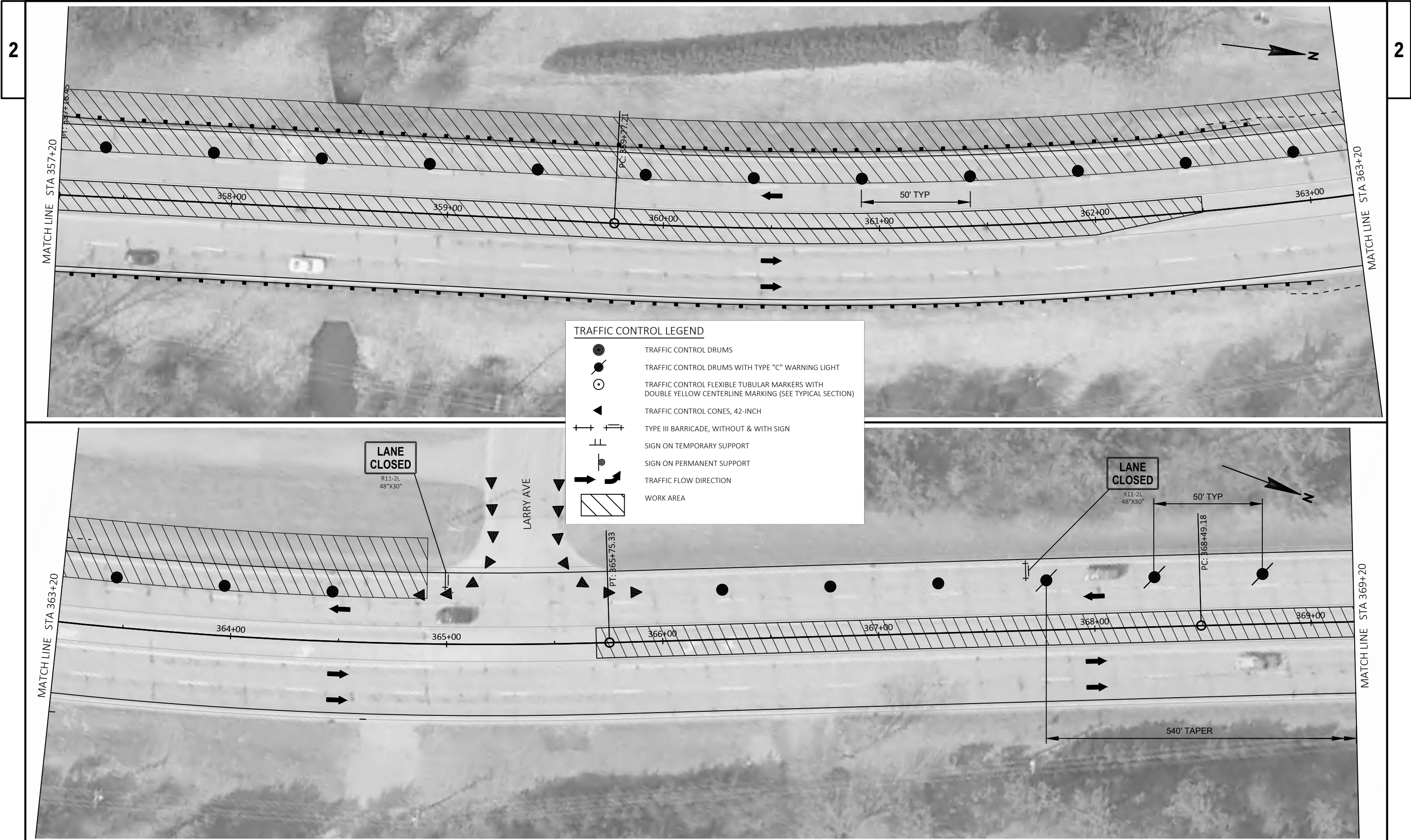
WORK AREA

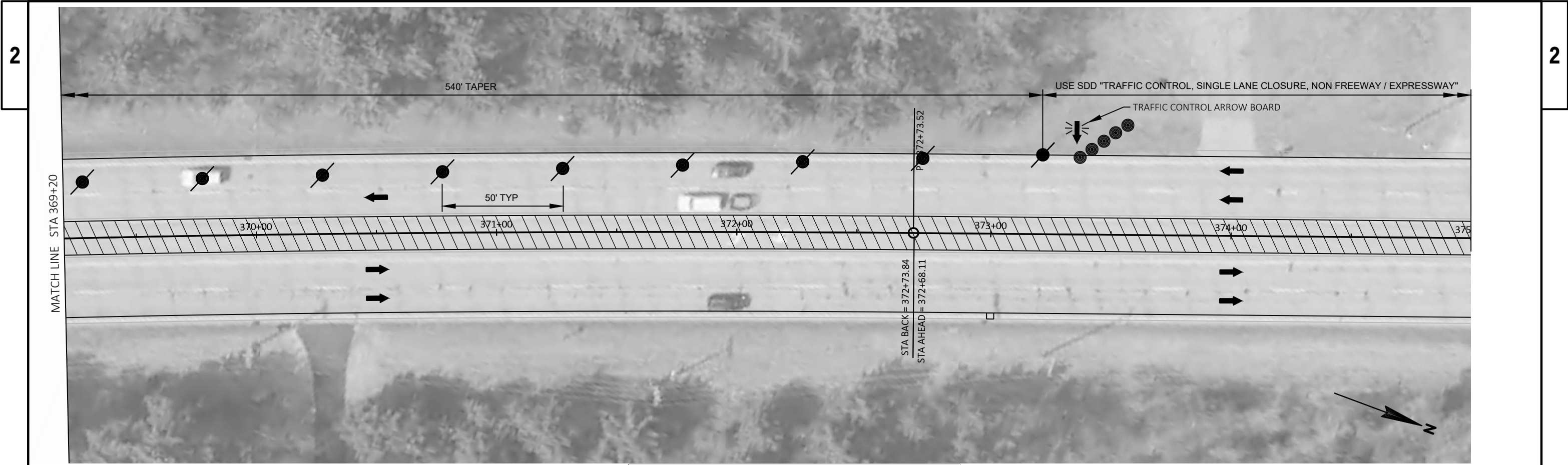
NOTES:

UTILIZING SDD TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY, PLACE SHORT TERM INSIDE LANE AND LEFT TURN LANE CLOSURES AS NECESSARY TO COMPLETE ITEM "PREPARE EXISTING MEDIAN PAVEMENT FOR SEAL COAT SPECIAL".

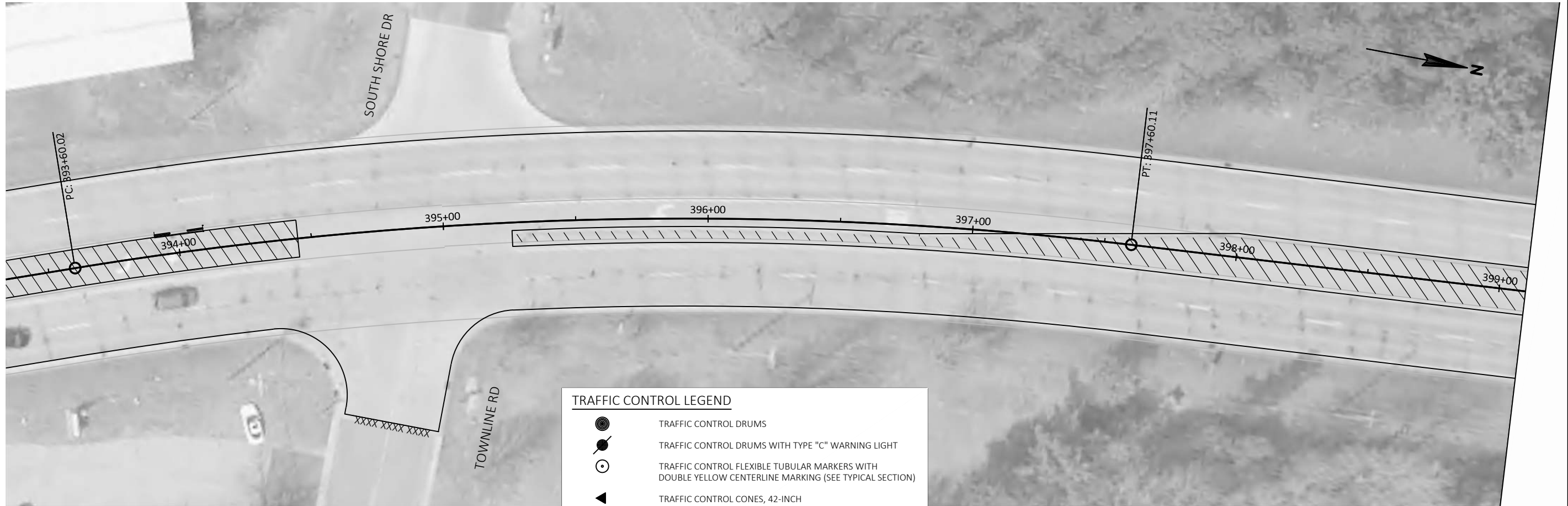
COMPLETE ITEM "PREPARE EXISTING MEDIAN PAVEMENT FOR SEAL COAT SPECIAL" FROM STA. 353+00 TO 365+00 PRIOR TO SETTING UP OUTSIDE LANE CLOSURE FOR REMOVING AND INSTALLING GUARDRAIL.







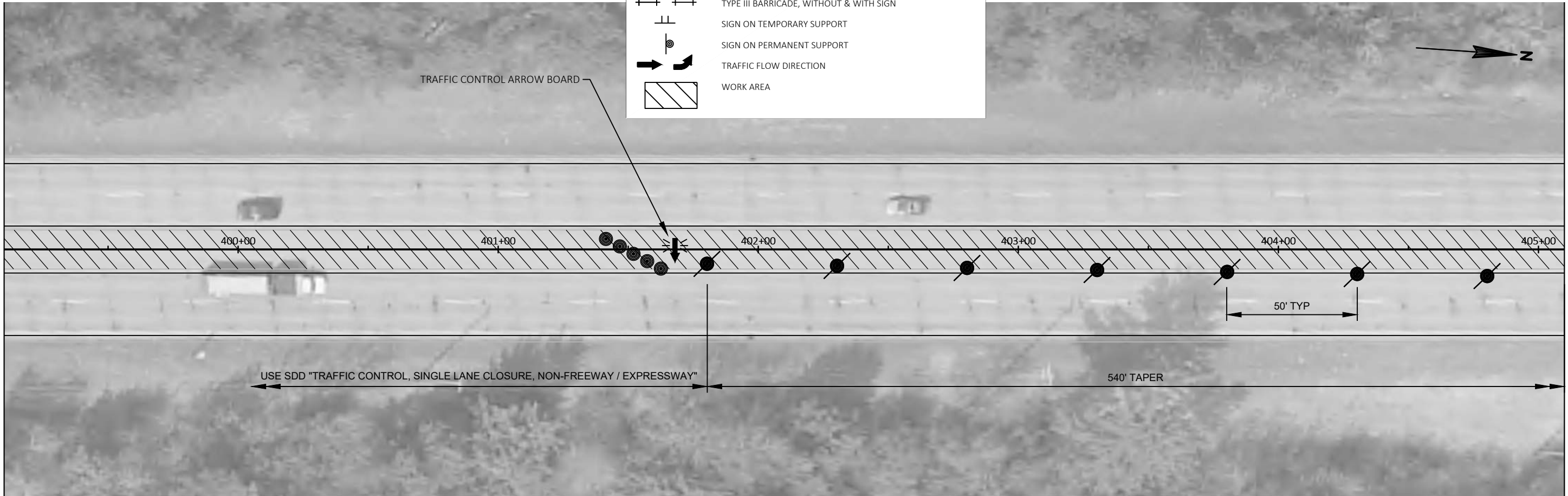
TRAFFIC CONTROL LEGEND	
	TRAFFIC CONTROL DRUMS
	TRAFFIC CONTROL DRUMS WITH TYPE "C" WARNING LIGHT
	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS WITH DOUBLE YELLOW CENTERLINE MARKING (SEE TYPICAL SECTION)
	TRAFFIC CONTROL CONES, 42-INCH
	TYPE III BARRICADE, WITHOUT & WITH SIGN
	SIGN ON TEMPORARY SUPPORT
	SIGN ON PERMANENT SUPPORT
	TRAFFIC FLOW DIRECTION
	WORK AREA



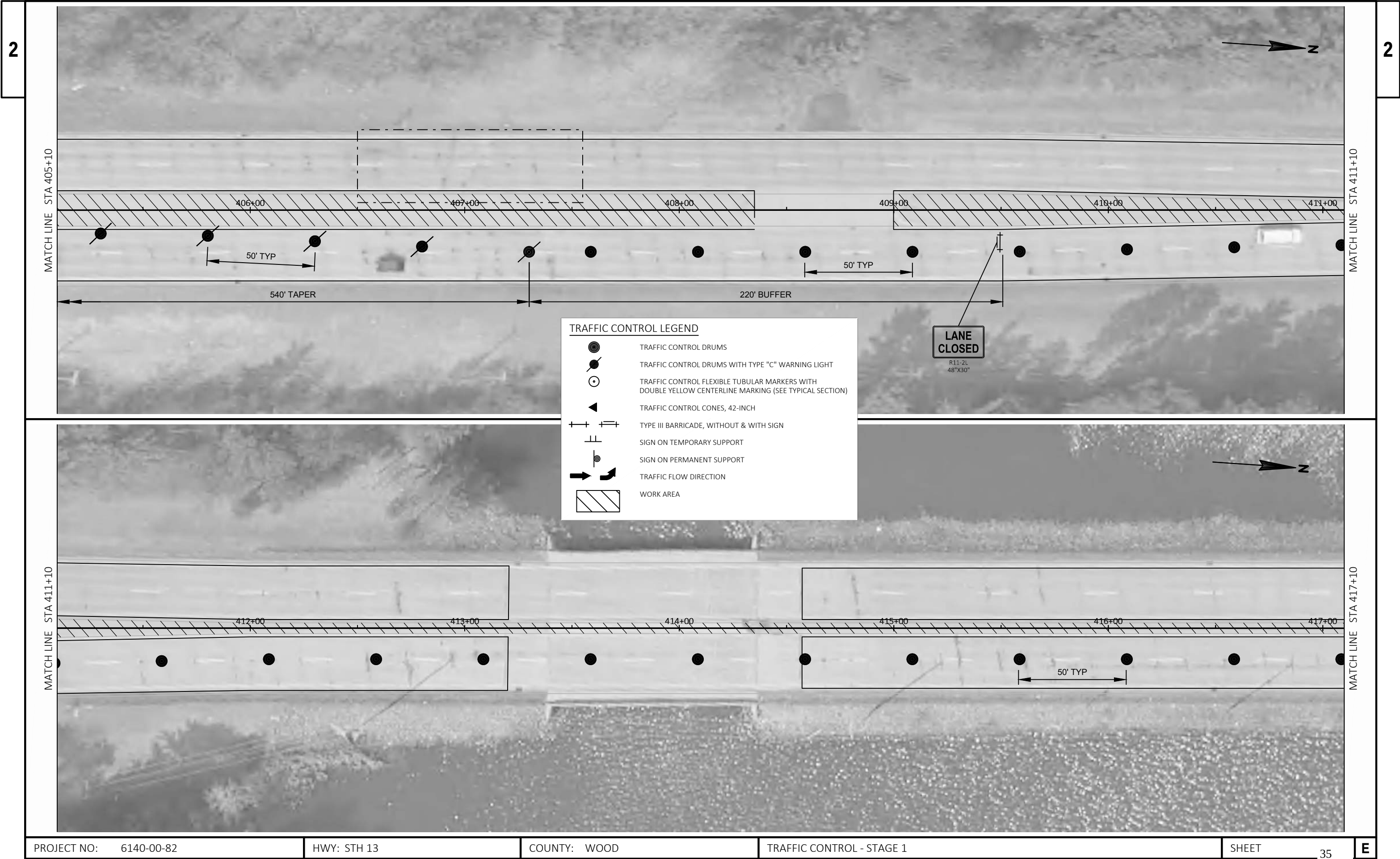
TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH TYPE "C" WARNING LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS WITH DOUBLE YELLOW CENTERLINE MARKING (SEE TYPICAL SECTION)
- TRAFFIC CONTROL CONES, 42-INCH
- TYPE III BARRICADE, WITHOUT & WITH SIGN
- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC FLOW DIRECTION
- WORK AREA

MATCH LINE STA 399+10



MATCH LINE STA 405+10



2

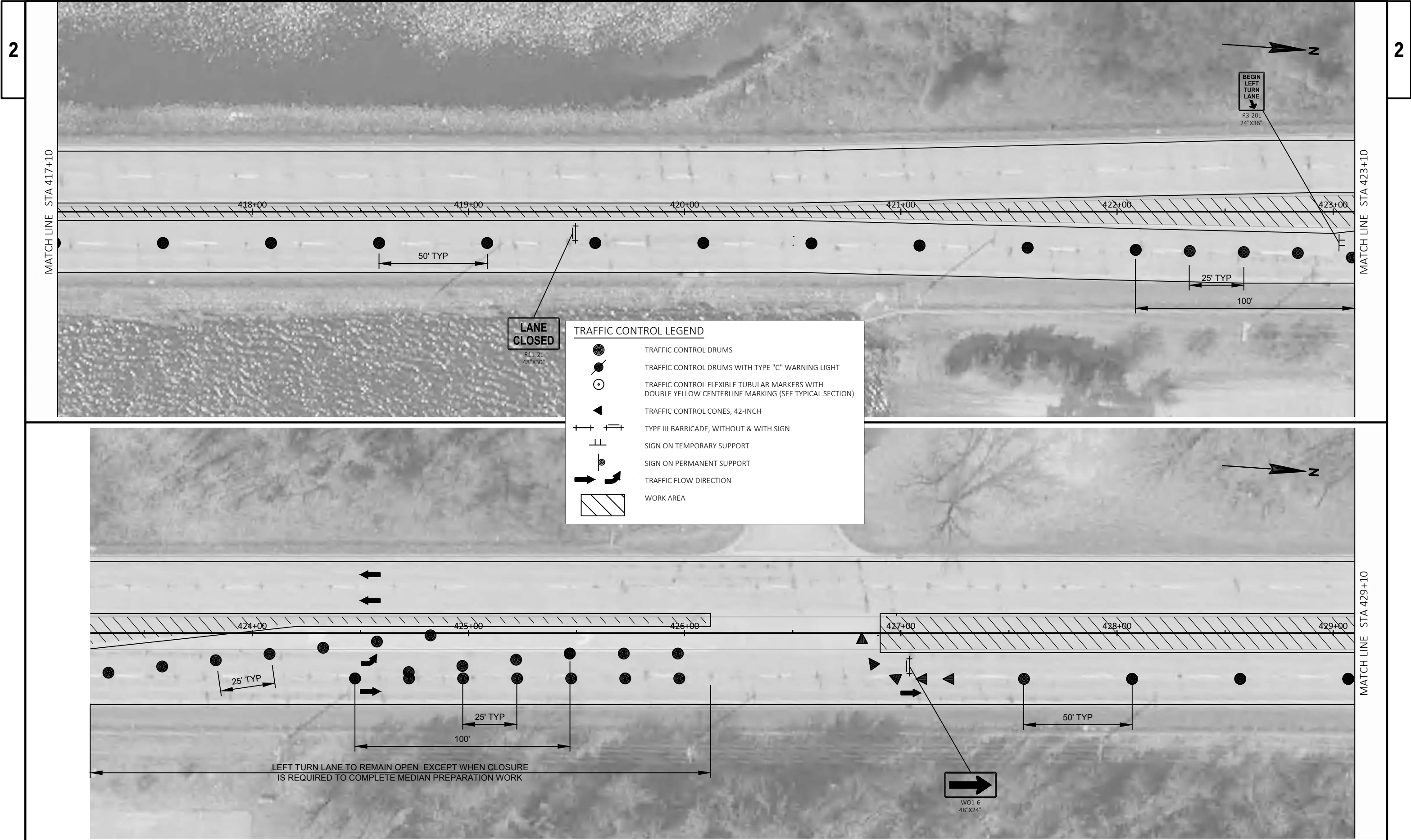
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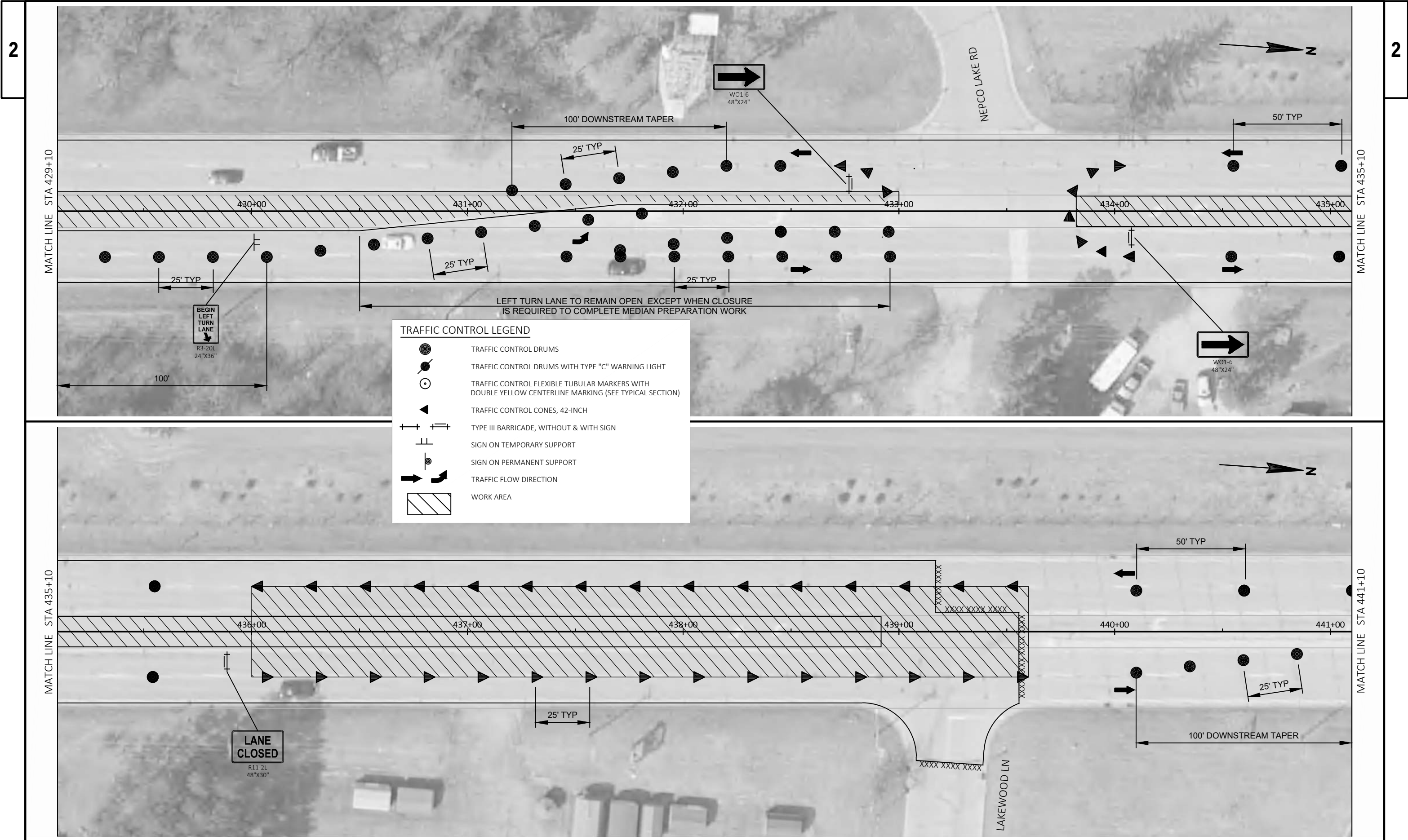
MATCH LINE STA 405+10

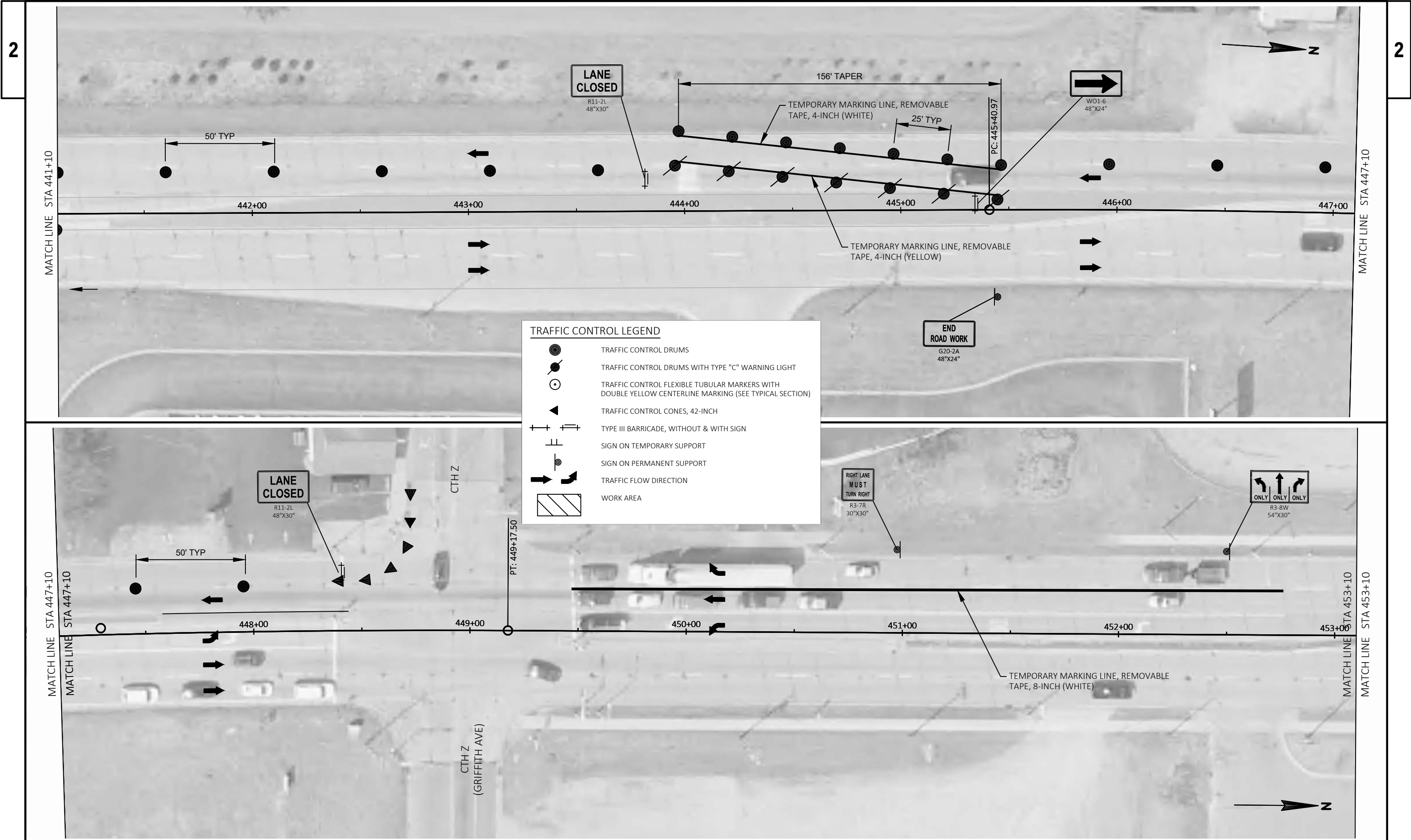
MATCH LINE STA 411+10

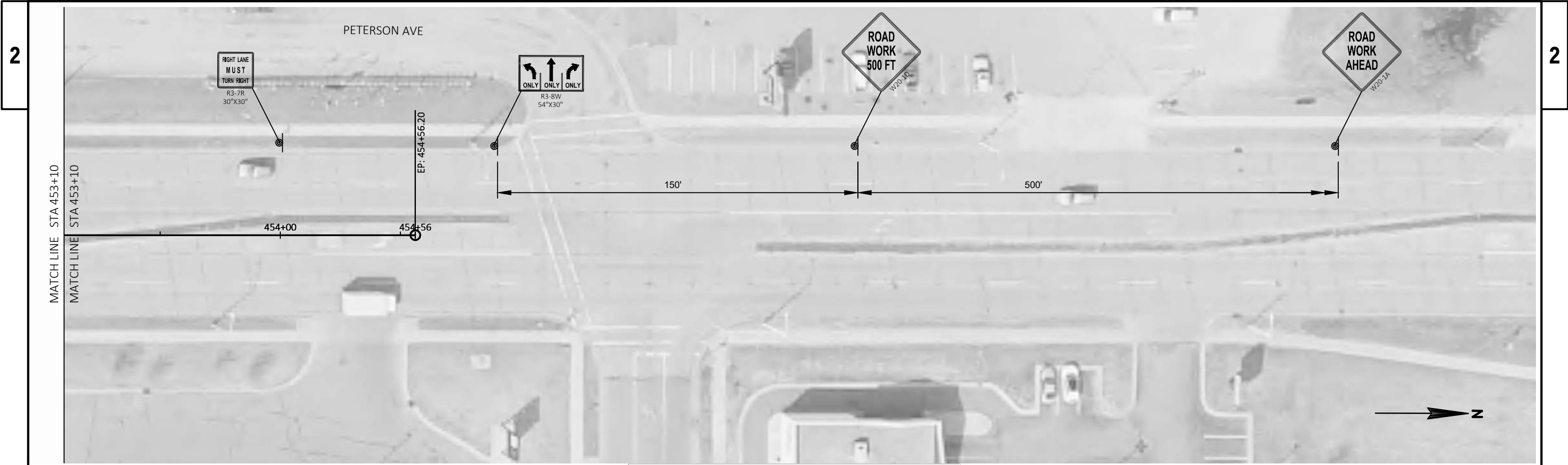
MATCH LINE STA 411+10

MATCH LINE STA 417+10

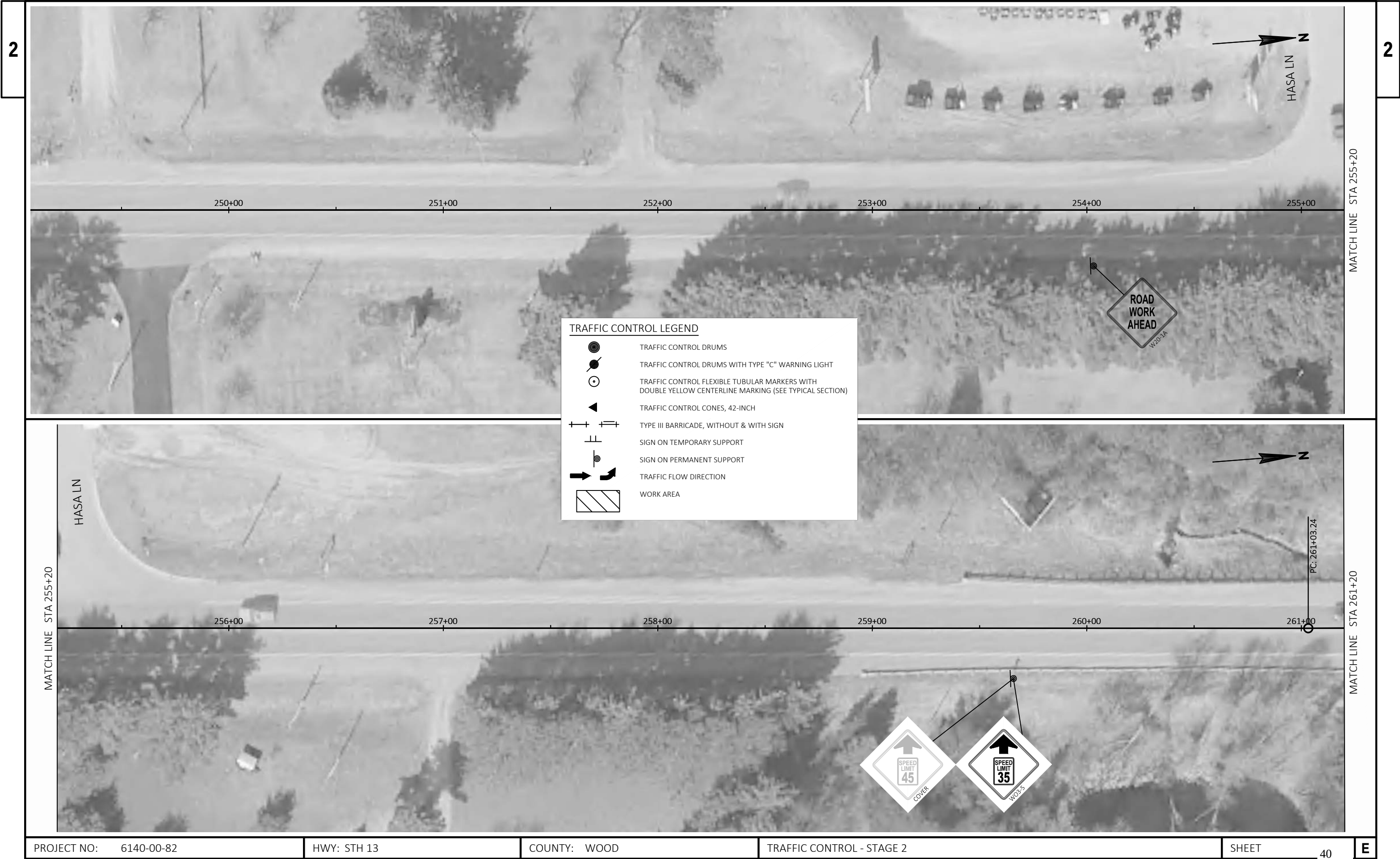




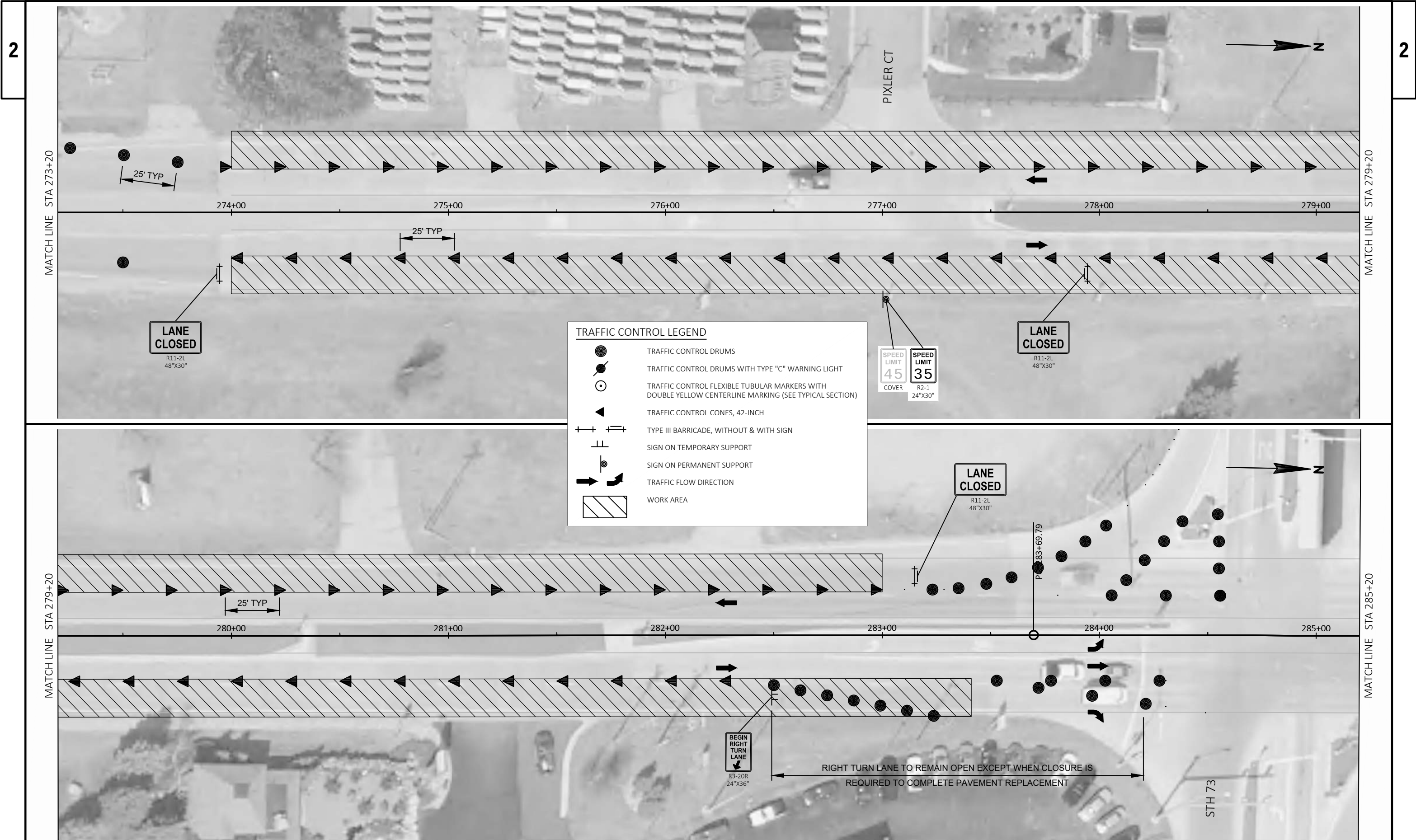


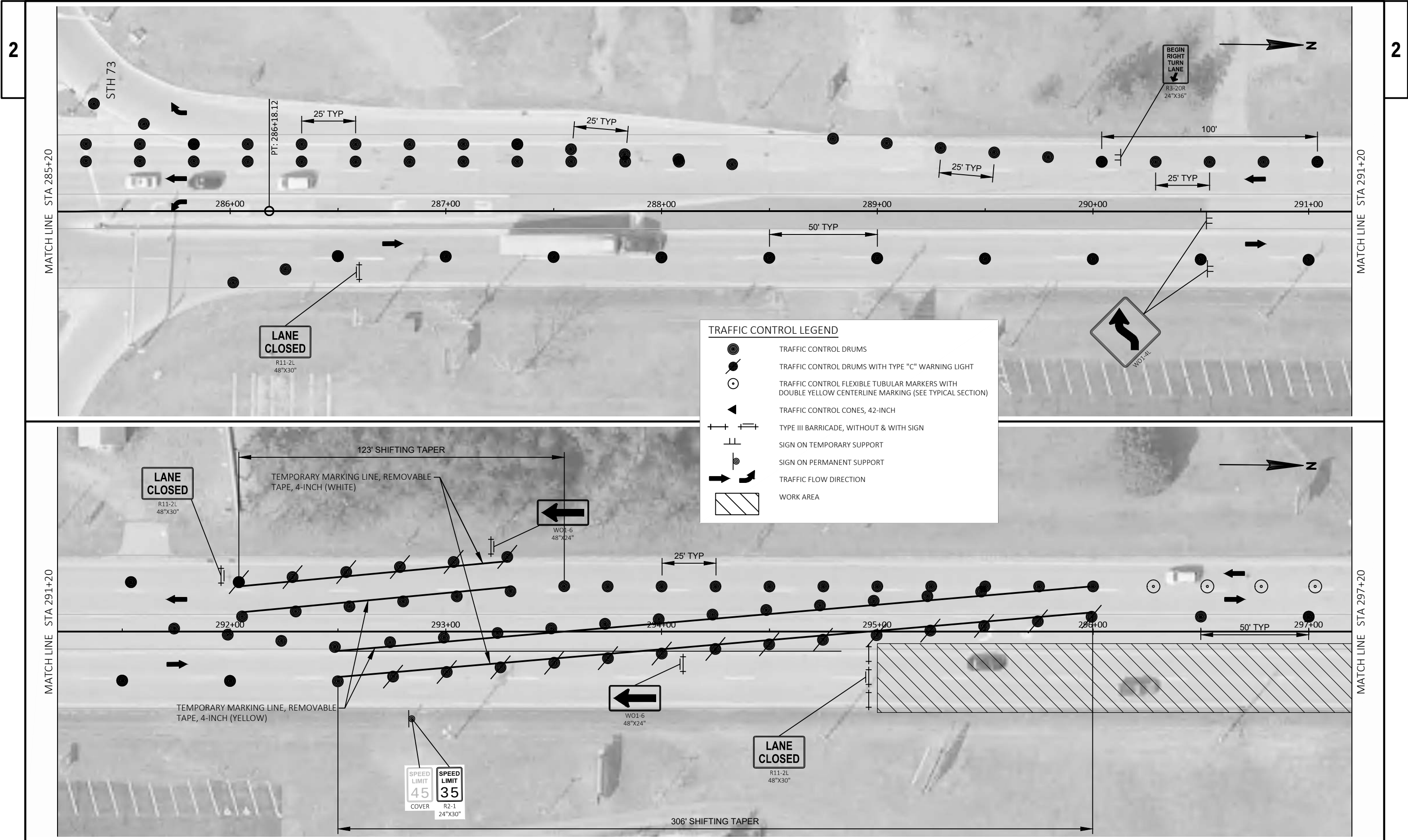


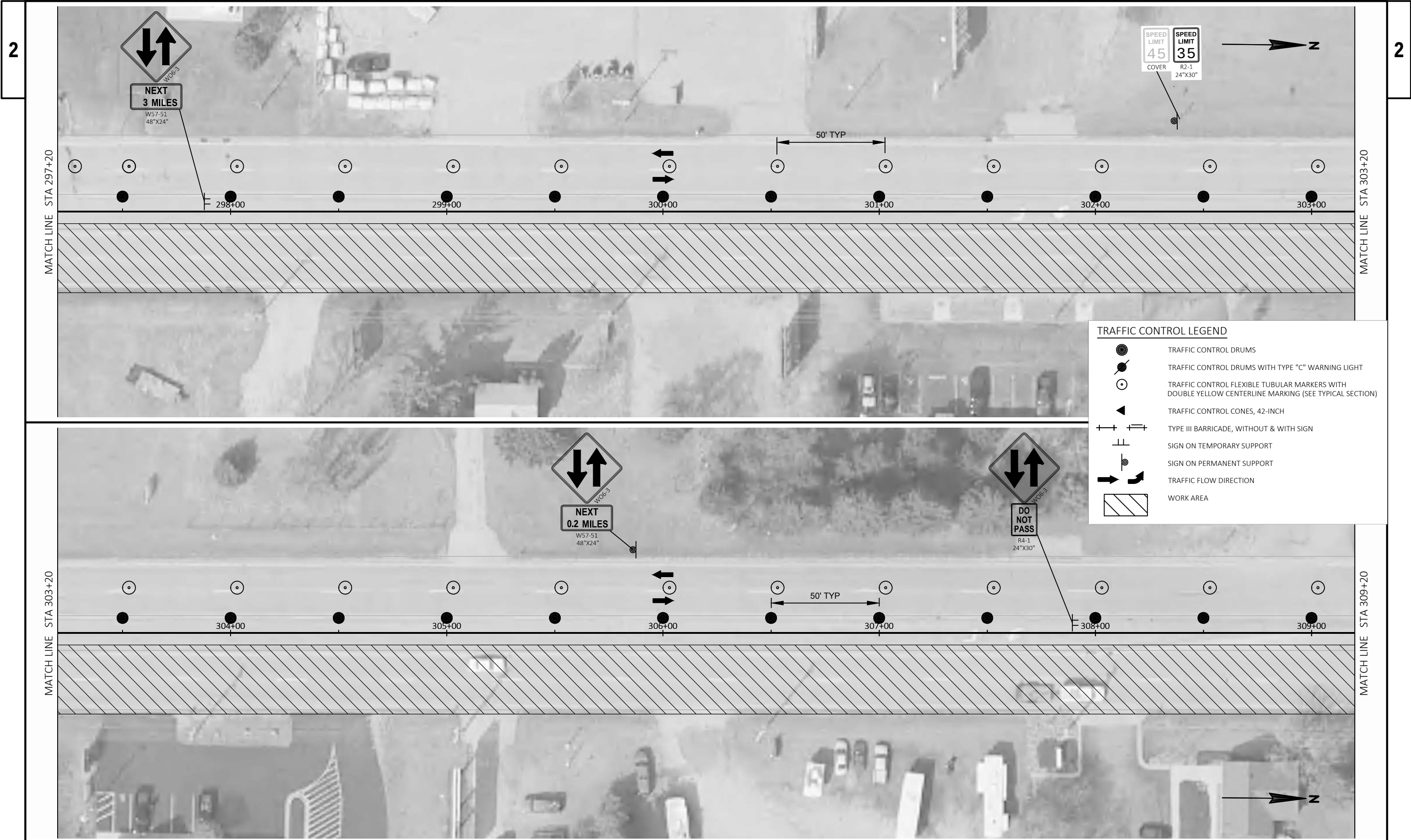
TRAFFIC CONTROL LEGEND	
	TRAFFIC CONTROL DRUMS
	TRAFFIC CONTROL DRUMS WITH TYPE "C" WARNING LIGHT
	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS WITH DOUBLE YELLOW CENTERLINE MARKING (SEE TYPICAL SECTION)
	TRAFFIC CONTROL CONES, 42-INCH
	TYPE III BARRICADE, WITHOUT & WITH SIGN
	SIGN ON TEMPORARY SUPPORT
	SIGN ON PERMANENT SUPPORT
	TRAFFIC FLOW DIRECTION
	WORK AREA

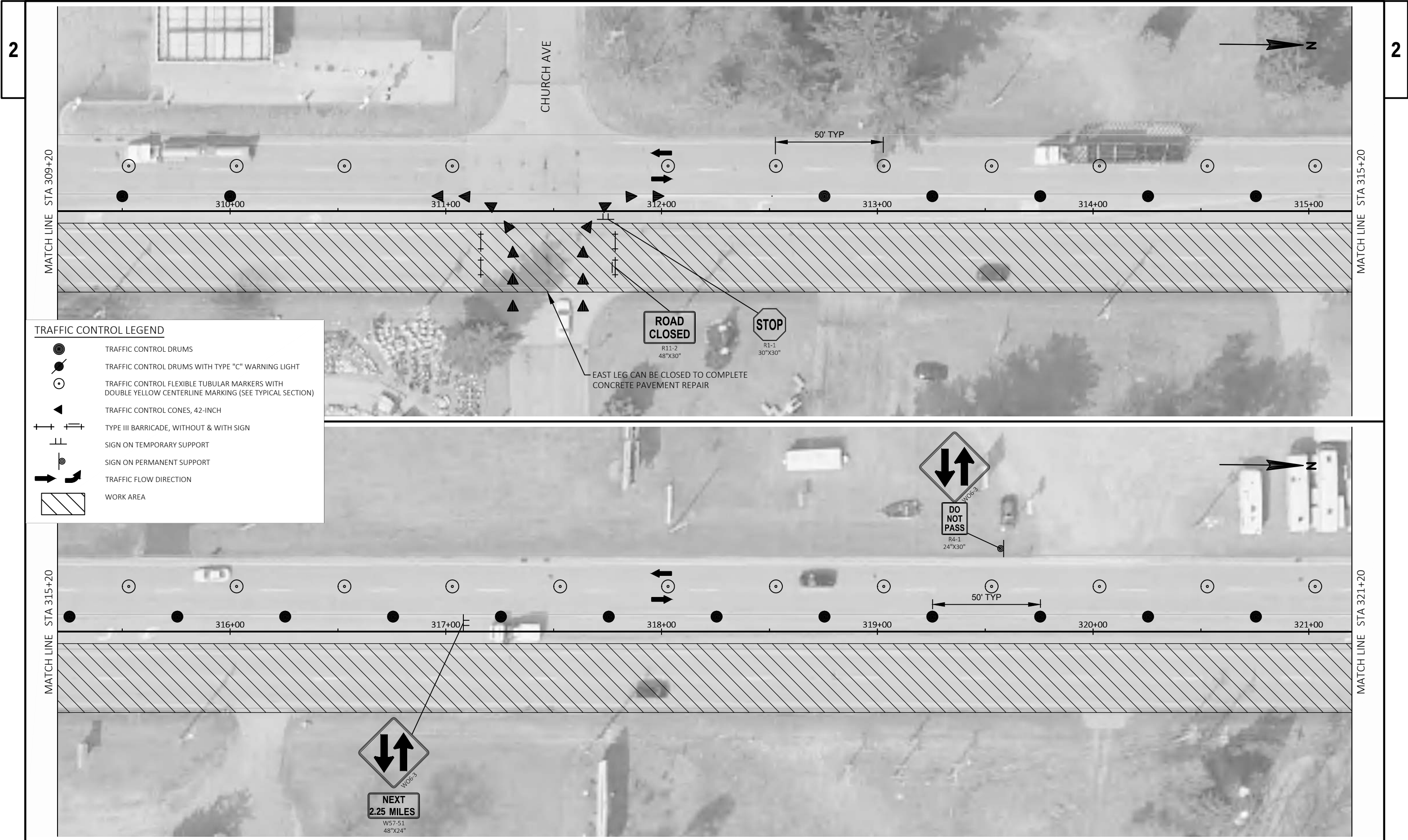


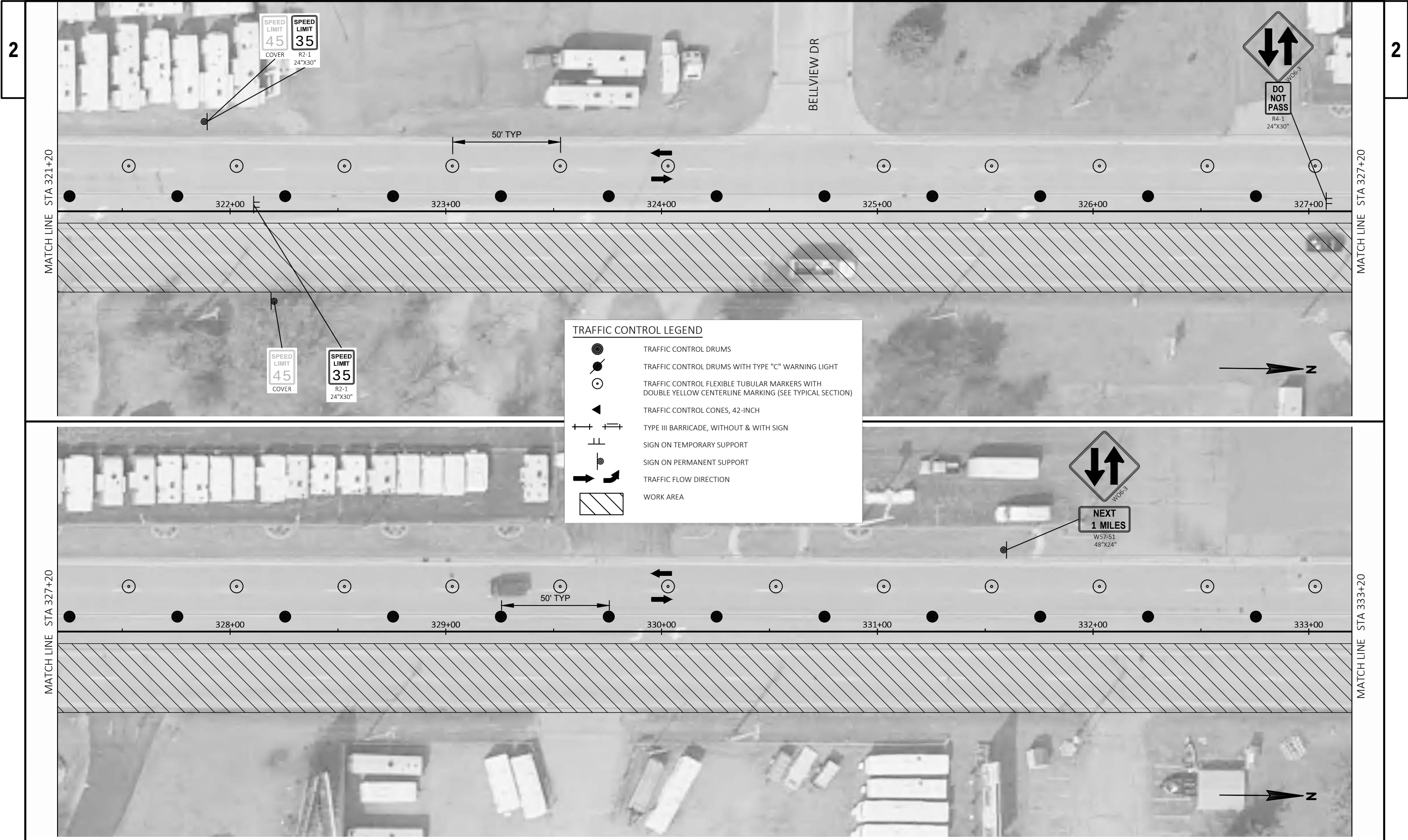


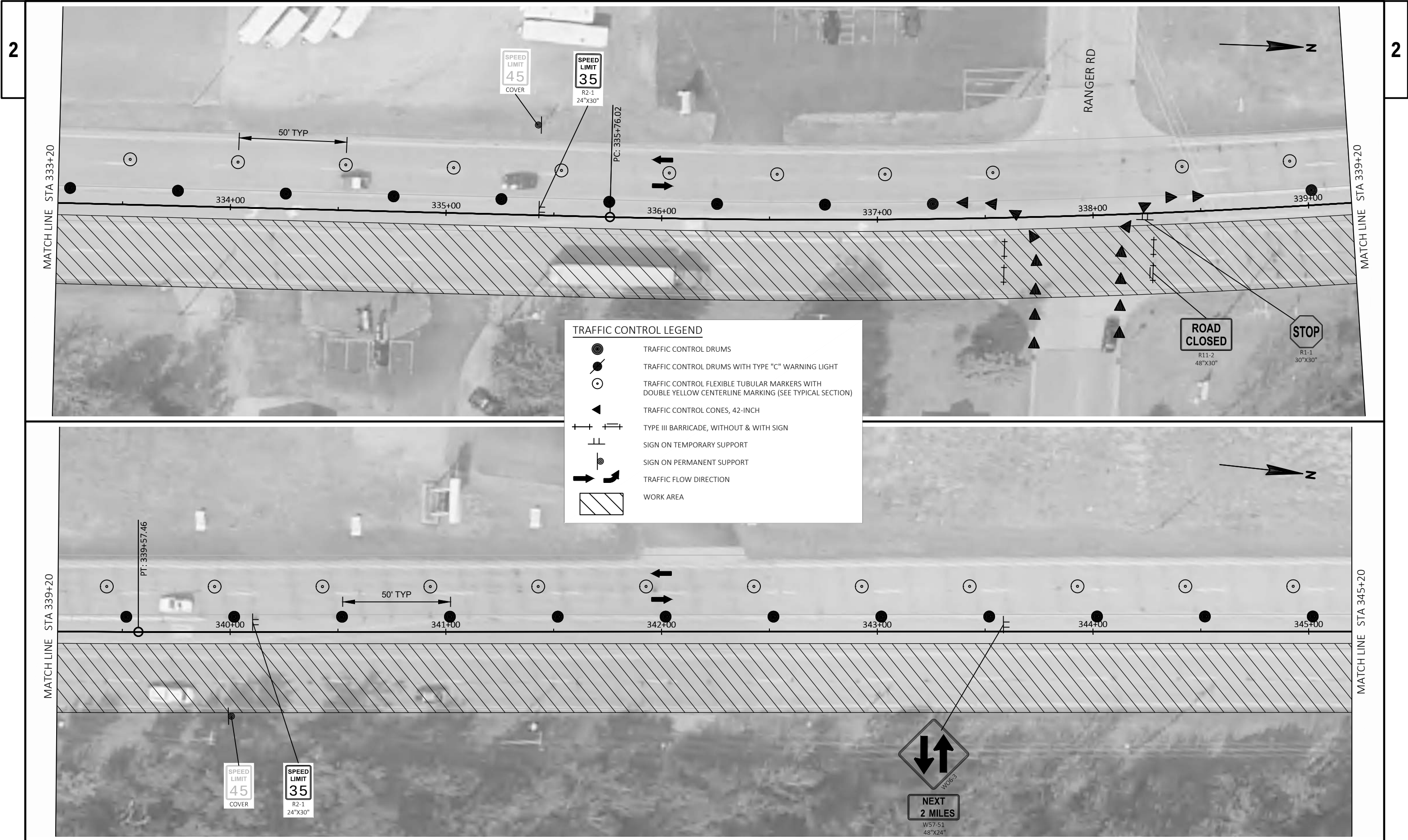


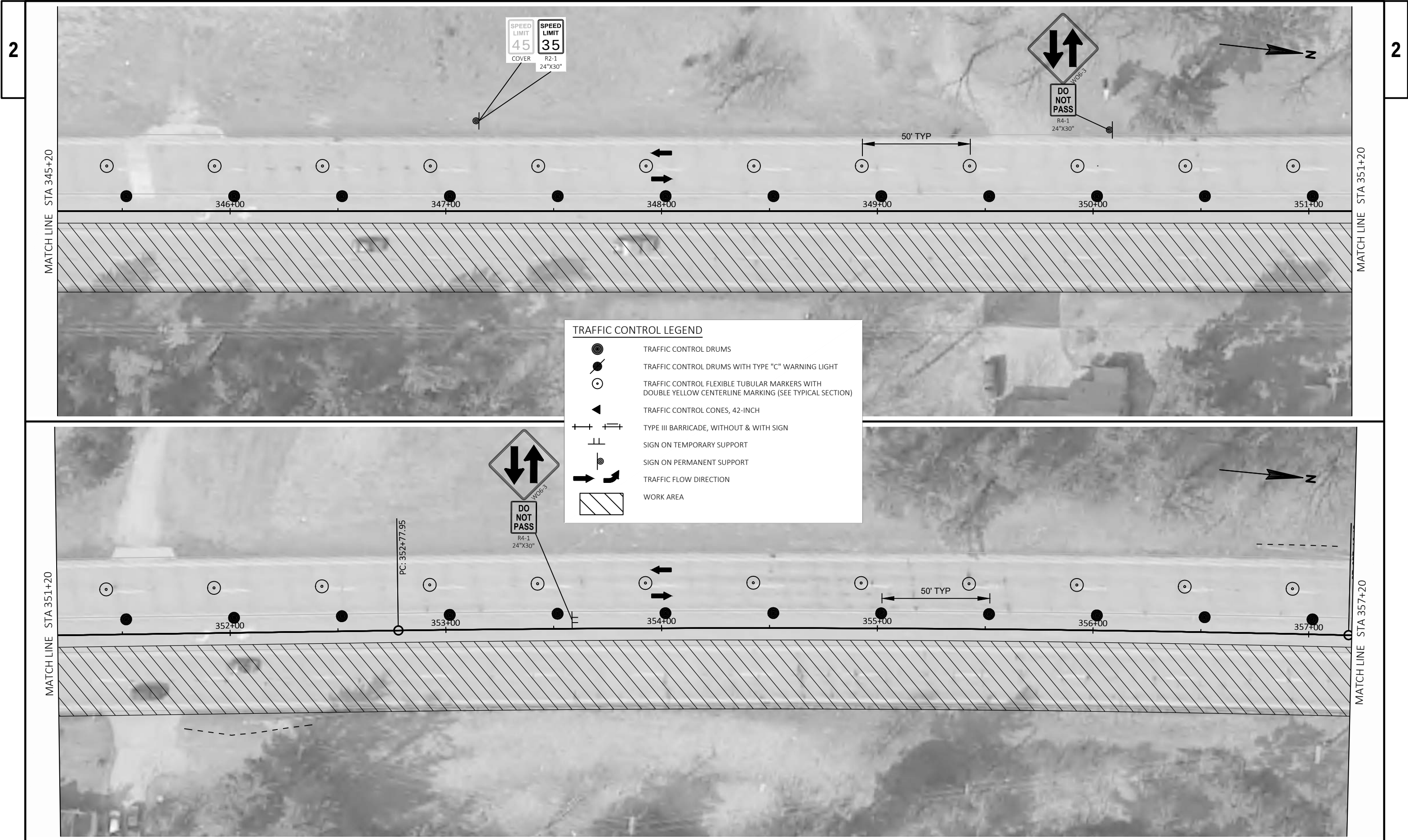












2

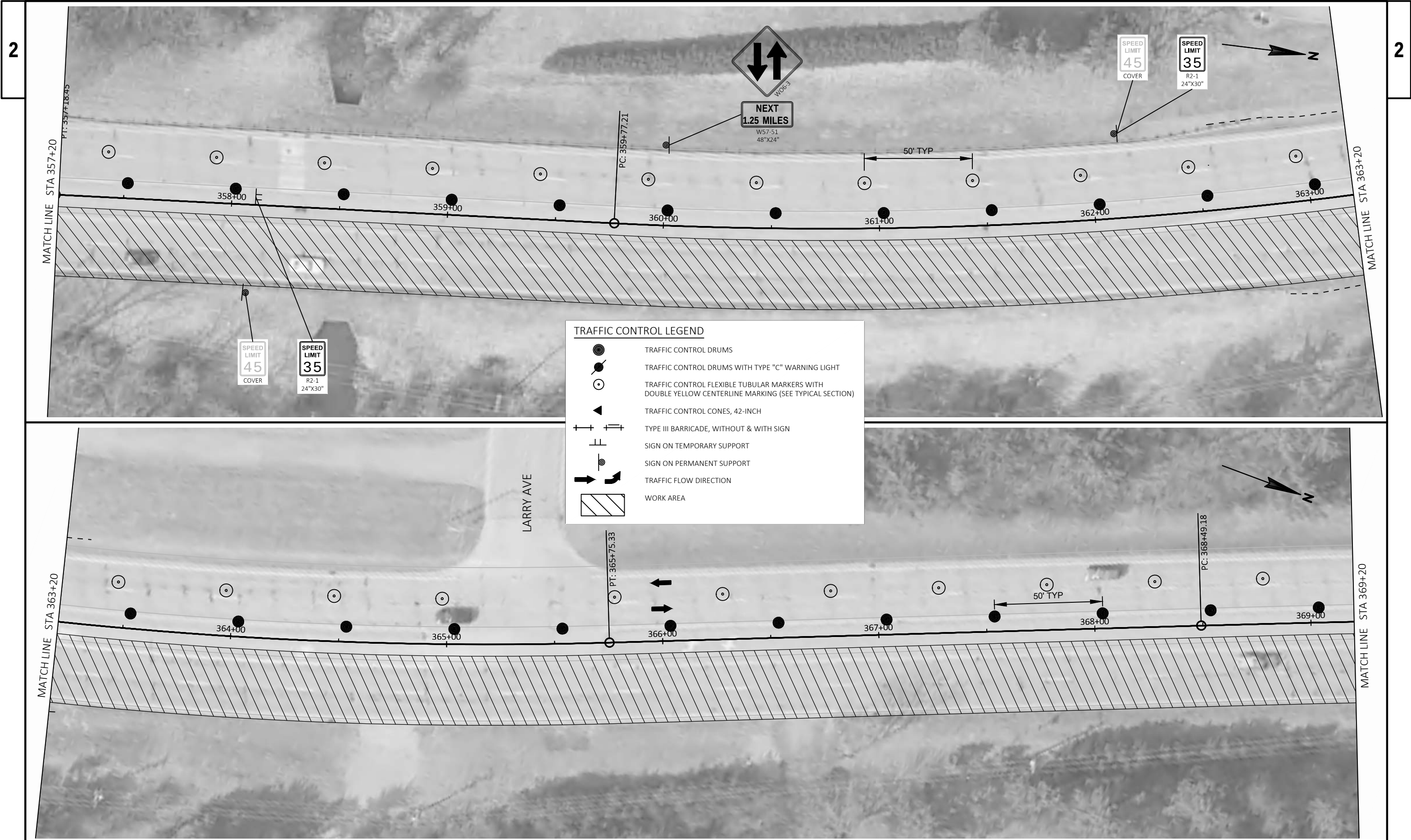
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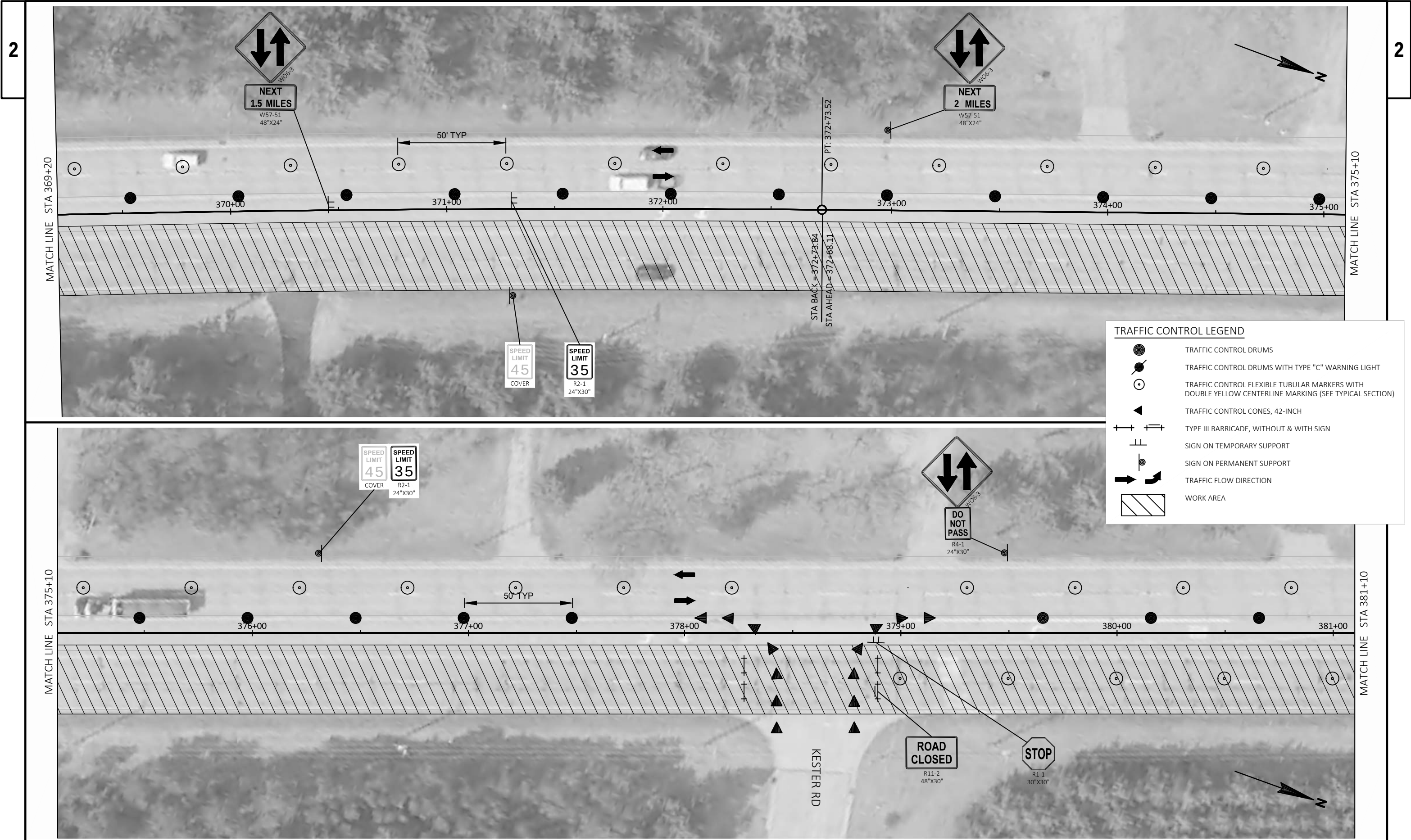
MATCH LINE STA 345+20

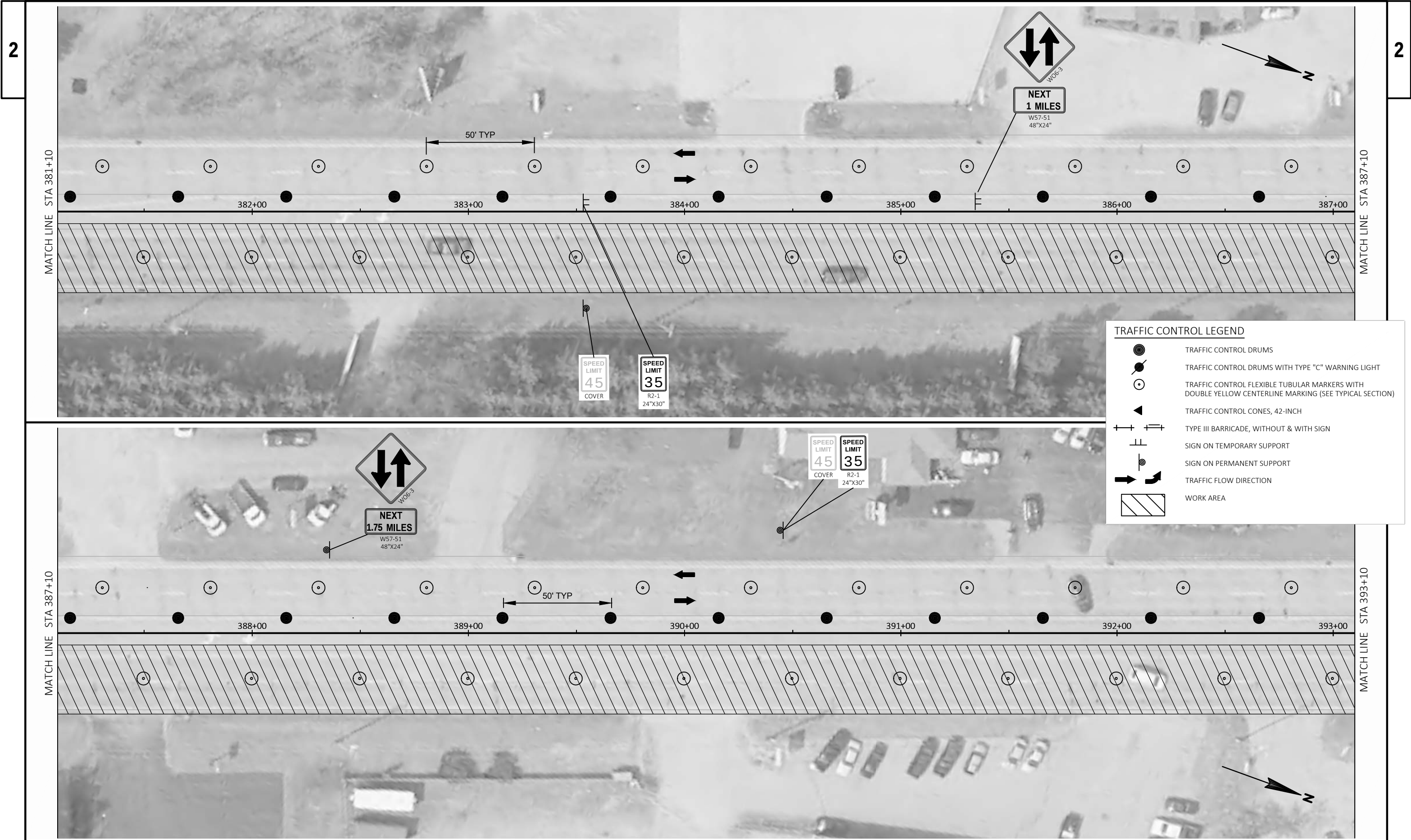
MATCH LINE STA 351+20

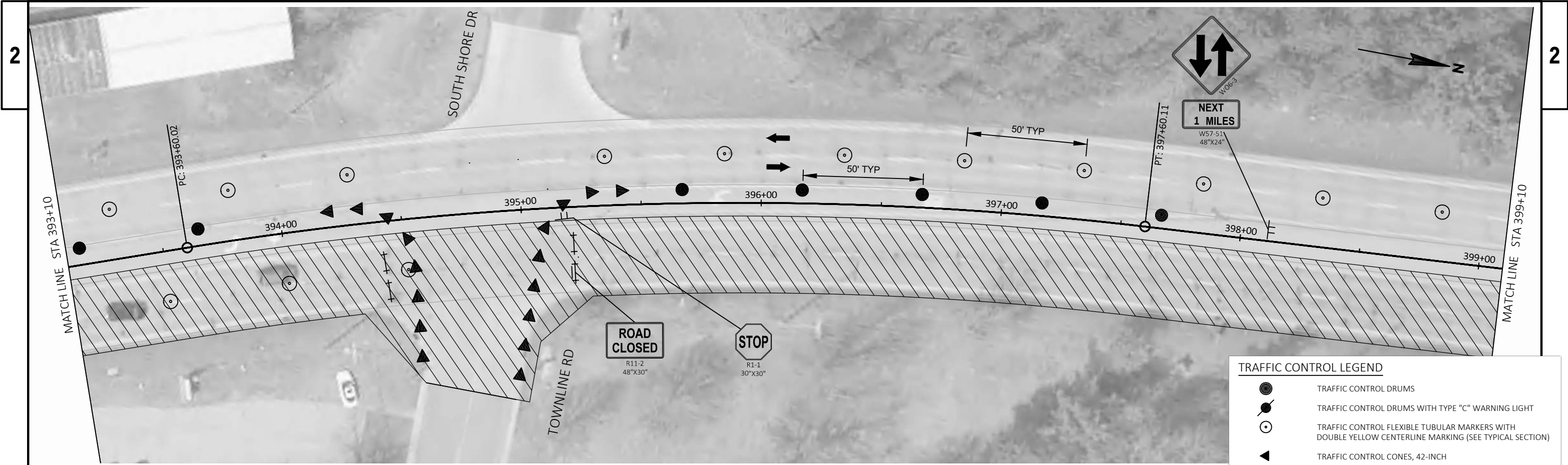
MATCH LINE STA 351+20

MATCH LINE STA 357+20



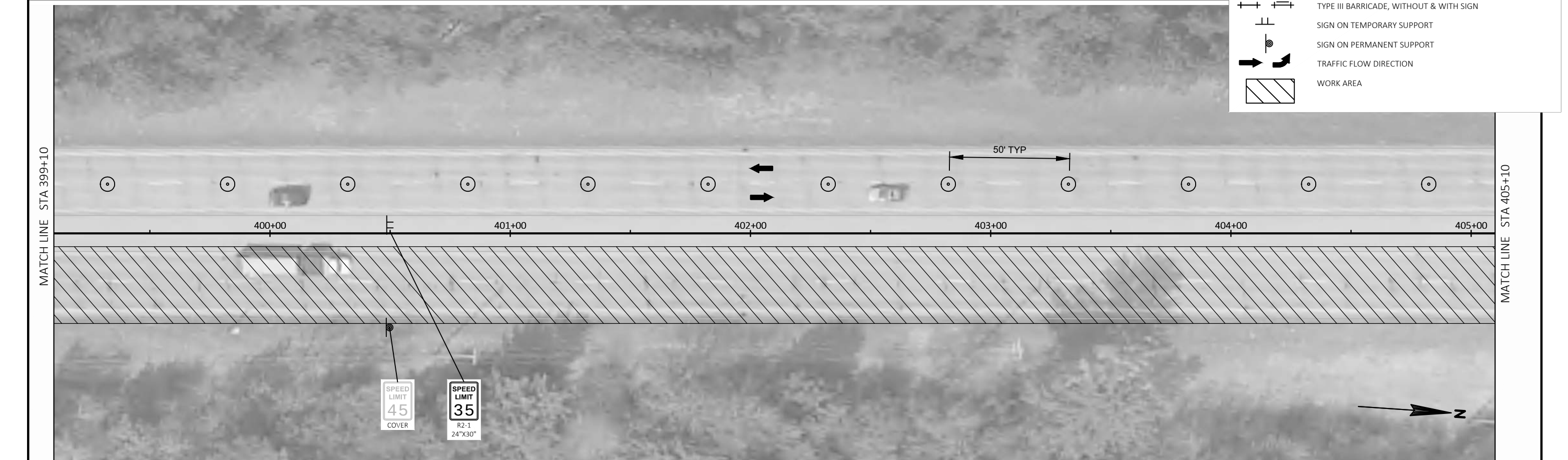


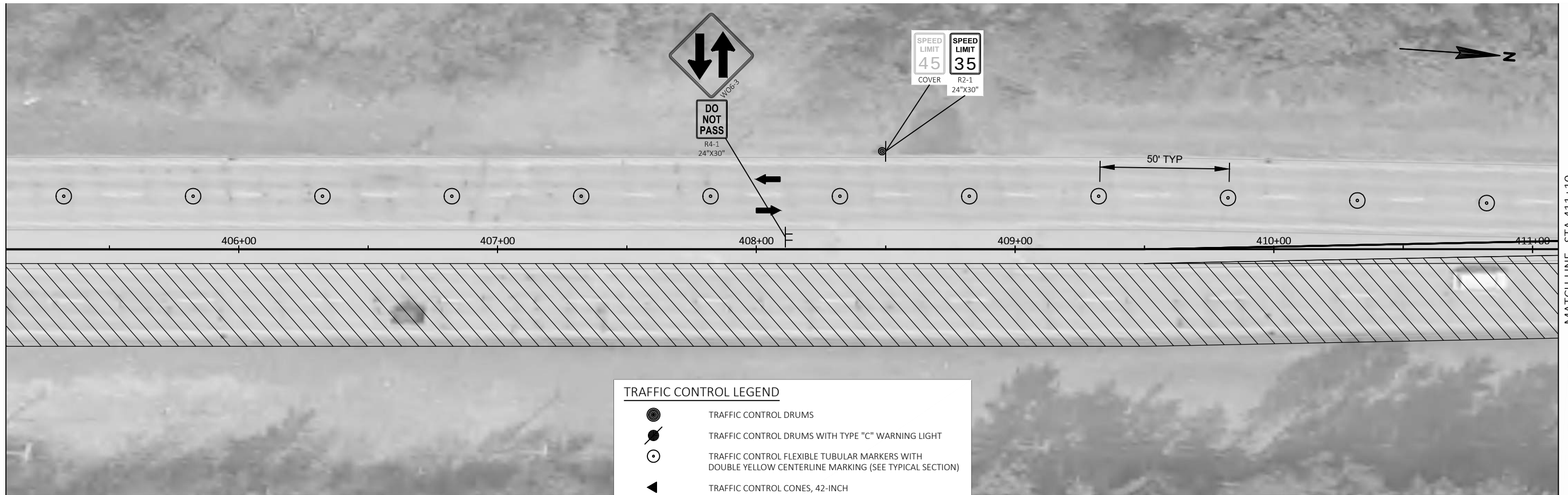




TRAFFIC CONTROL LEGEND

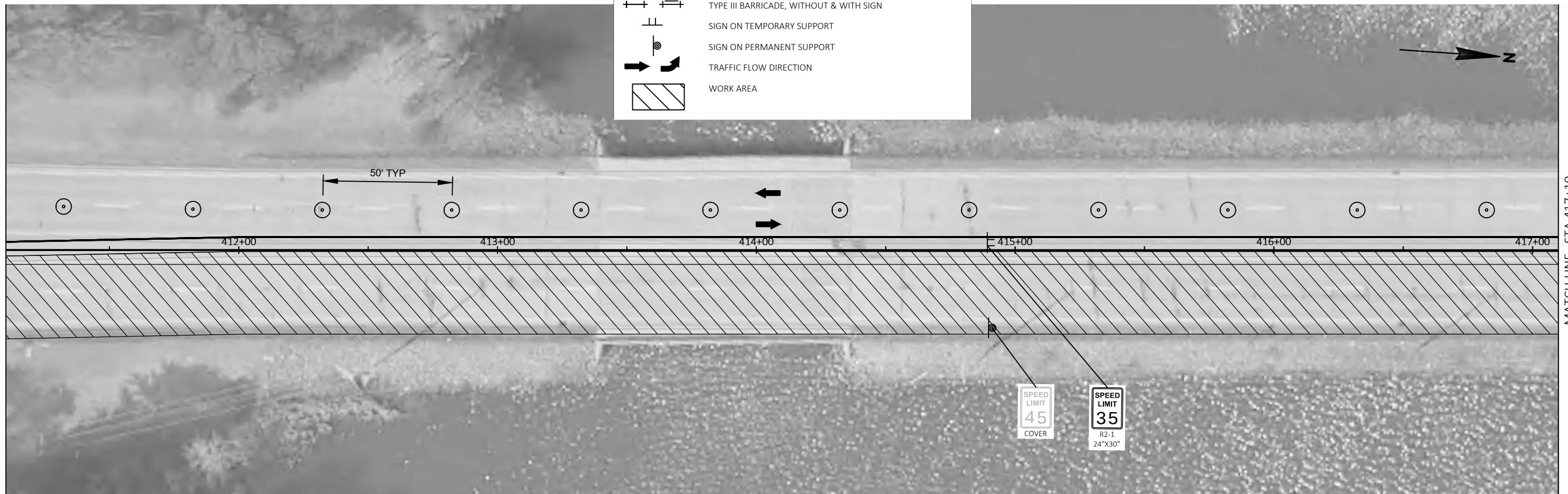
	TRAFFIC CONTROL DRUMS
	TRAFFIC CONTROL DRUMS WITH TYPE "C" WARNING LIGHT
	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS WITH DOUBLE YELLOW CENTERLINE MARKING (SEE TYPICAL SECTION)
	TRAFFIC CONTROL CONES, 42-INCH
	TYPE III BARRICADE, WITHOUT & WITH SIGN
	SIGN ON TEMPORARY SUPPORT
	SIGN ON PERMANENT SUPPORT
	TRAFFIC FLOW DIRECTION
	WORK AREA



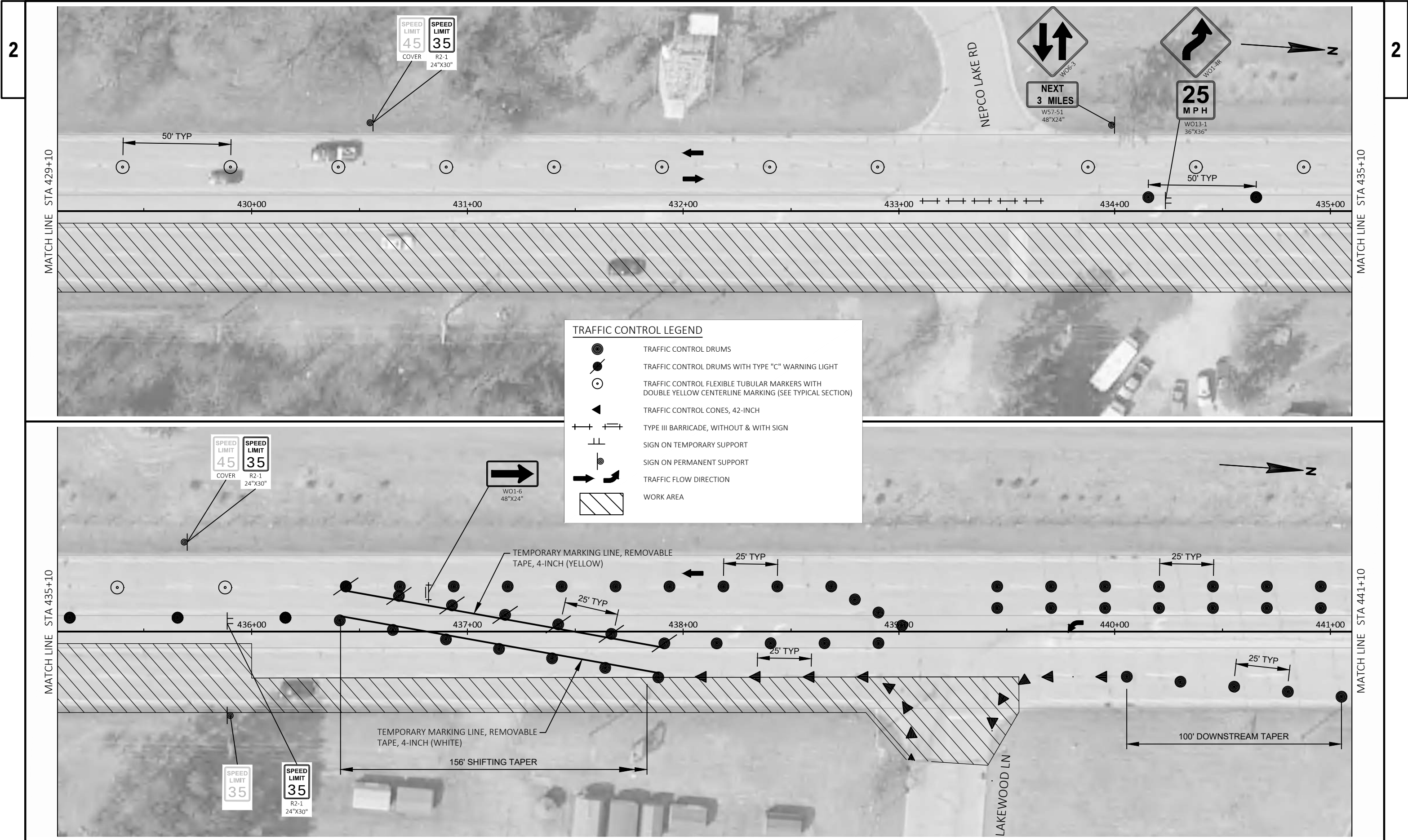


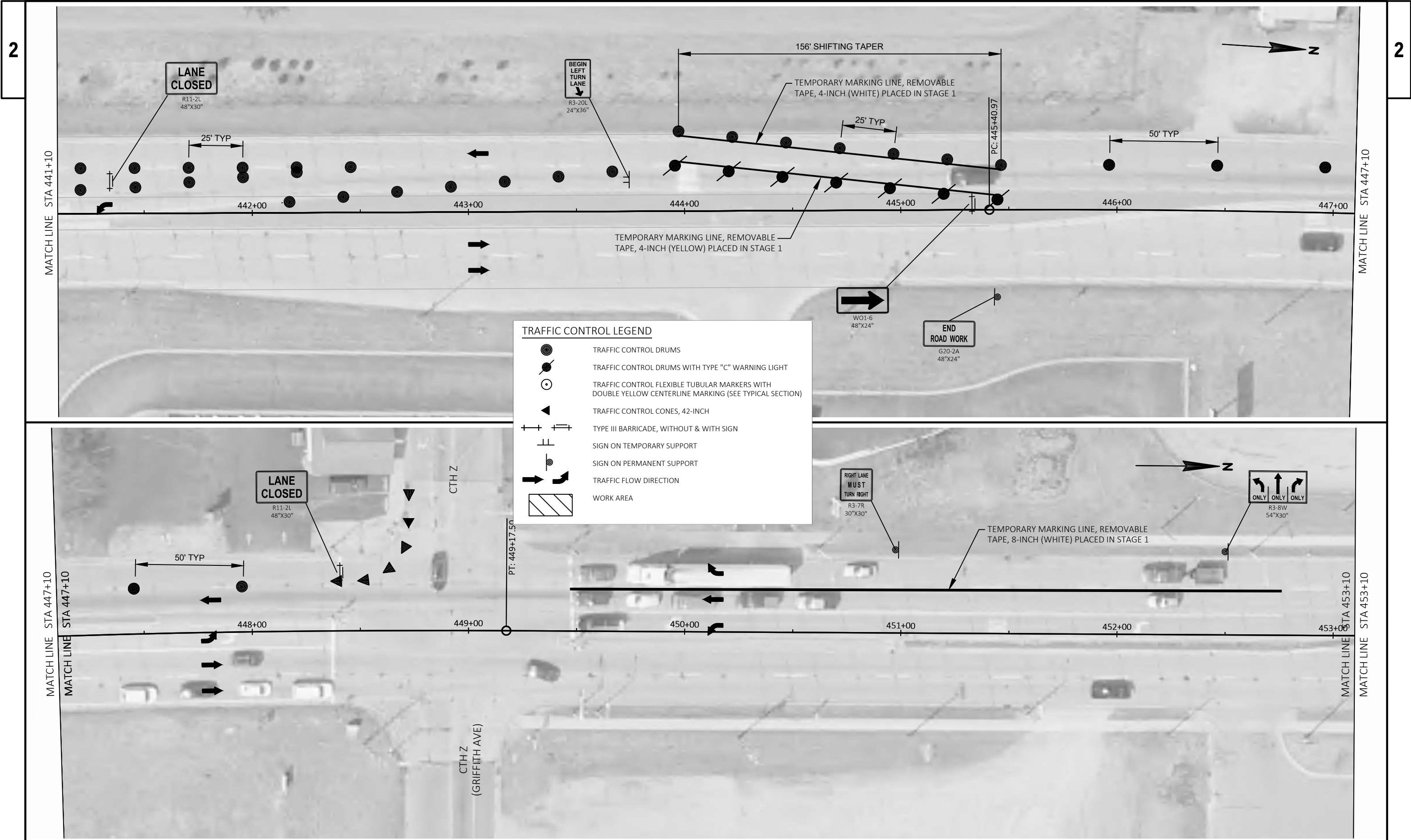
TRAFFIC CONTROL LEGEND

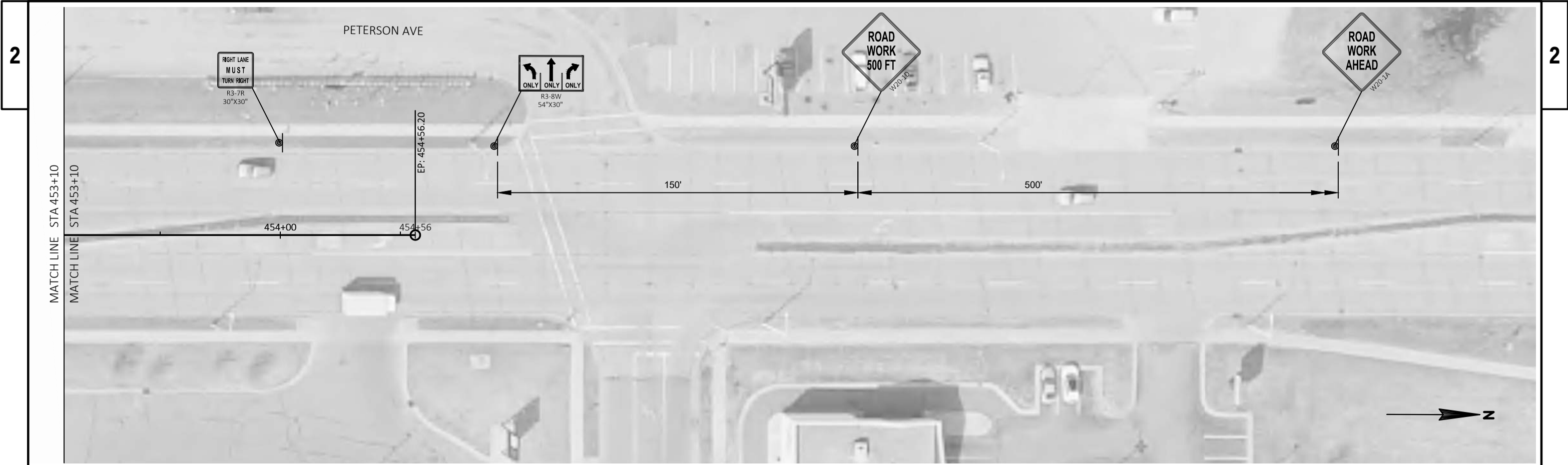
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH TYPE "C" WARNING LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS WITH DOUBLE YELLOW CENTERLINE MARKING (SEE TYPICAL SECTION)
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- TYPE III BARRICADE, WITHOUT & WITH SIGN
- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC FLOW DIRECTION
- WORK AREA



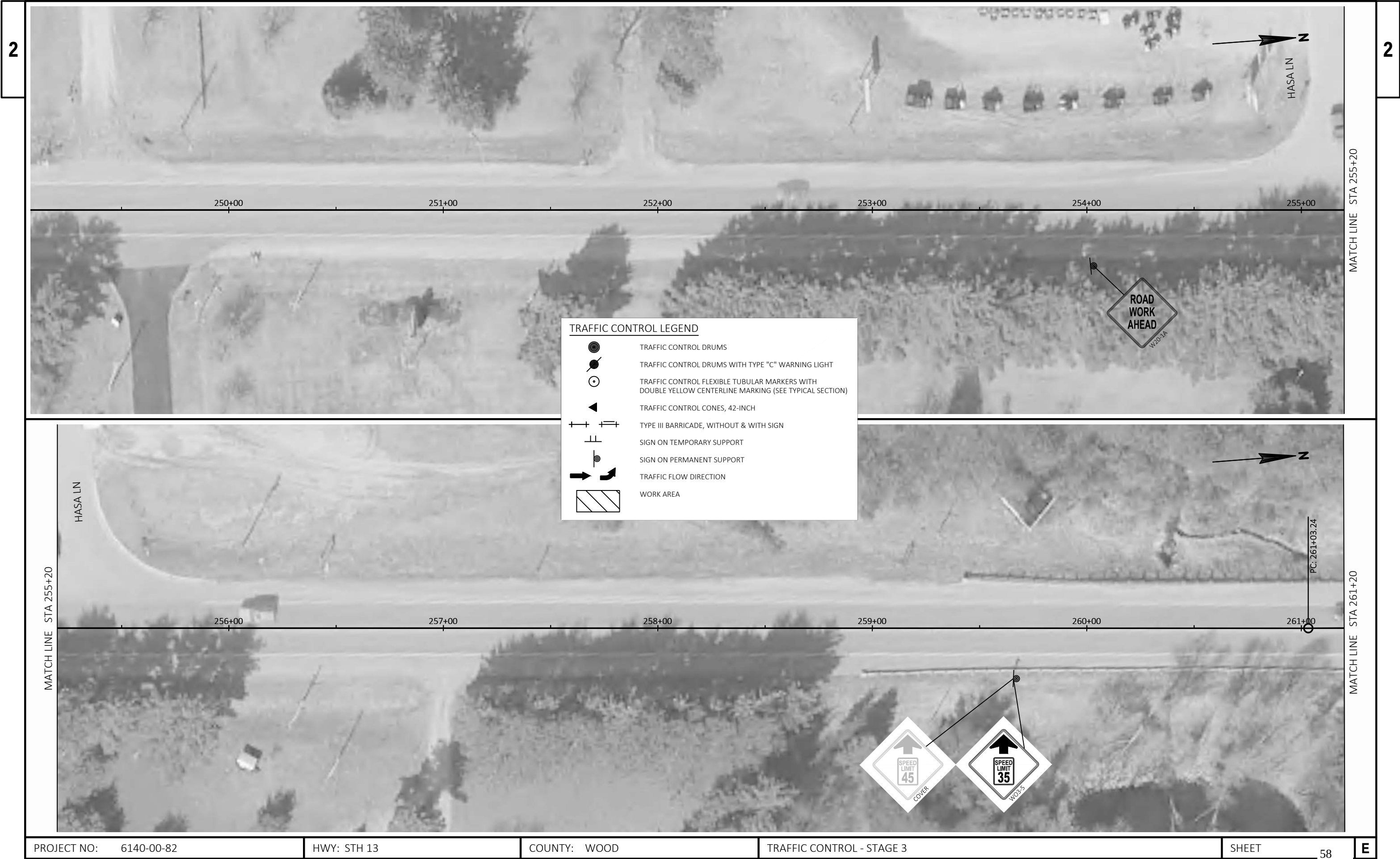








TRAFFIC CONTROL LEGEND	
	TRAFFIC CONTROL DRUMS
	TRAFFIC CONTROL DRUMS WITH TYPE "C" WARNING LIGHT
	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS WITH DOUBLE YELLOW CENTERLINE MARKING (SEE TYPICAL SECTION)
	TRAFFIC CONTROL CONES, 42-INCH
	TYPE III BARRICADE, WITHOUT & WITH SIGN
	SIGN ON TEMPORARY SUPPORT
	SIGN ON PERMANENT SUPPORT
	TRAFFIC FLOW DIRECTION
	WORK AREA





2

2

MATCH LINE STA 261+20

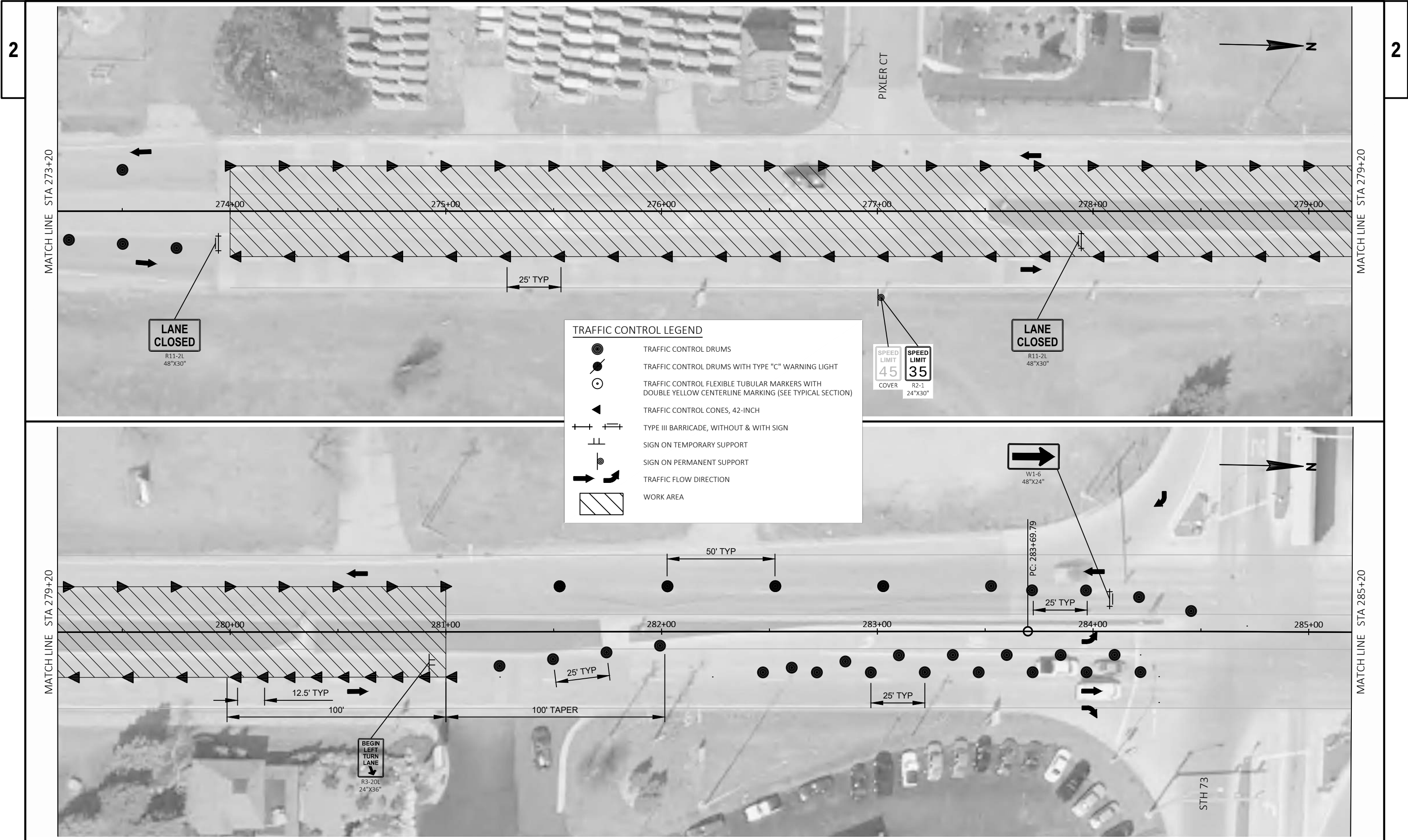
MATCH LINE STA 267+20

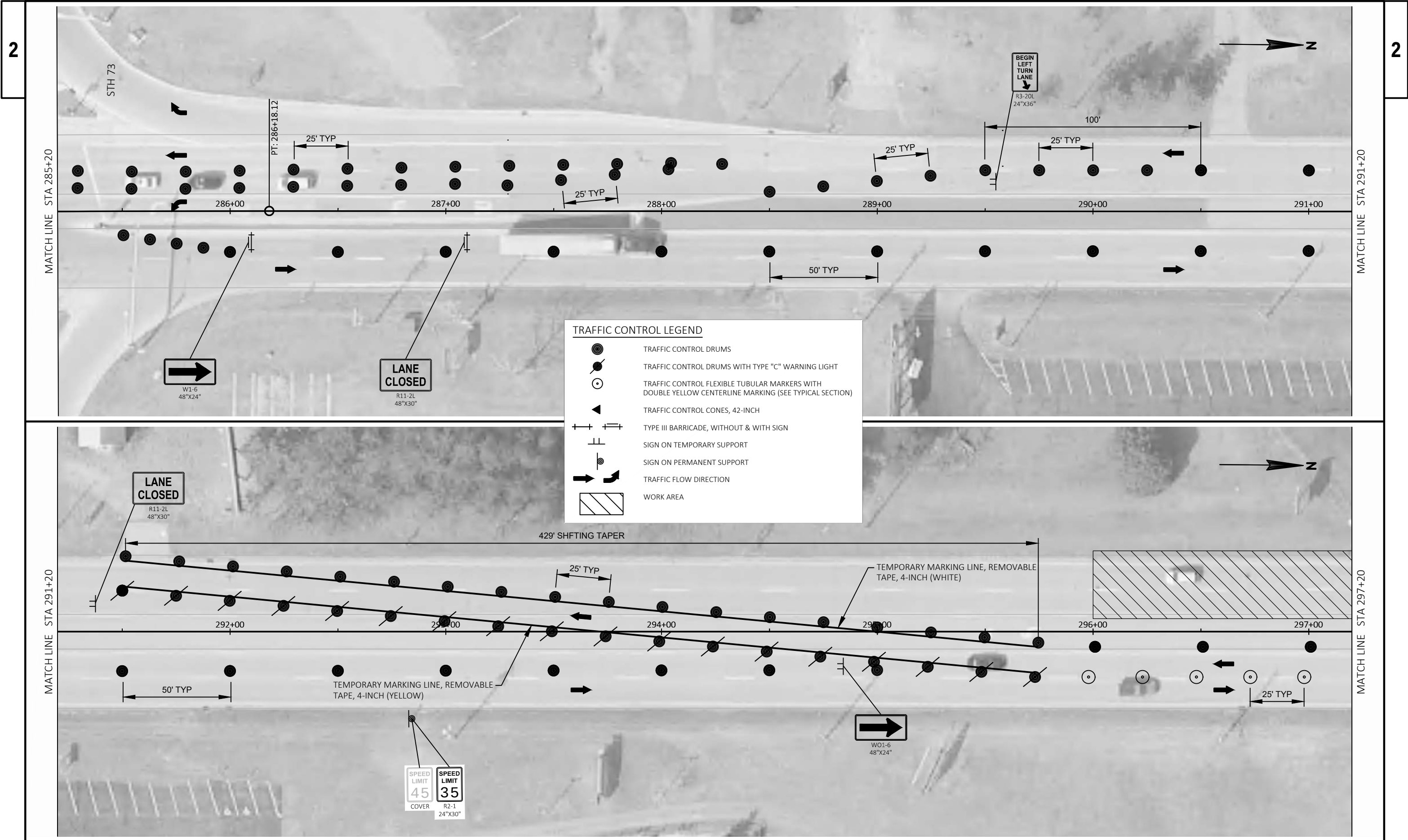
MATCH LINE STA 267+20

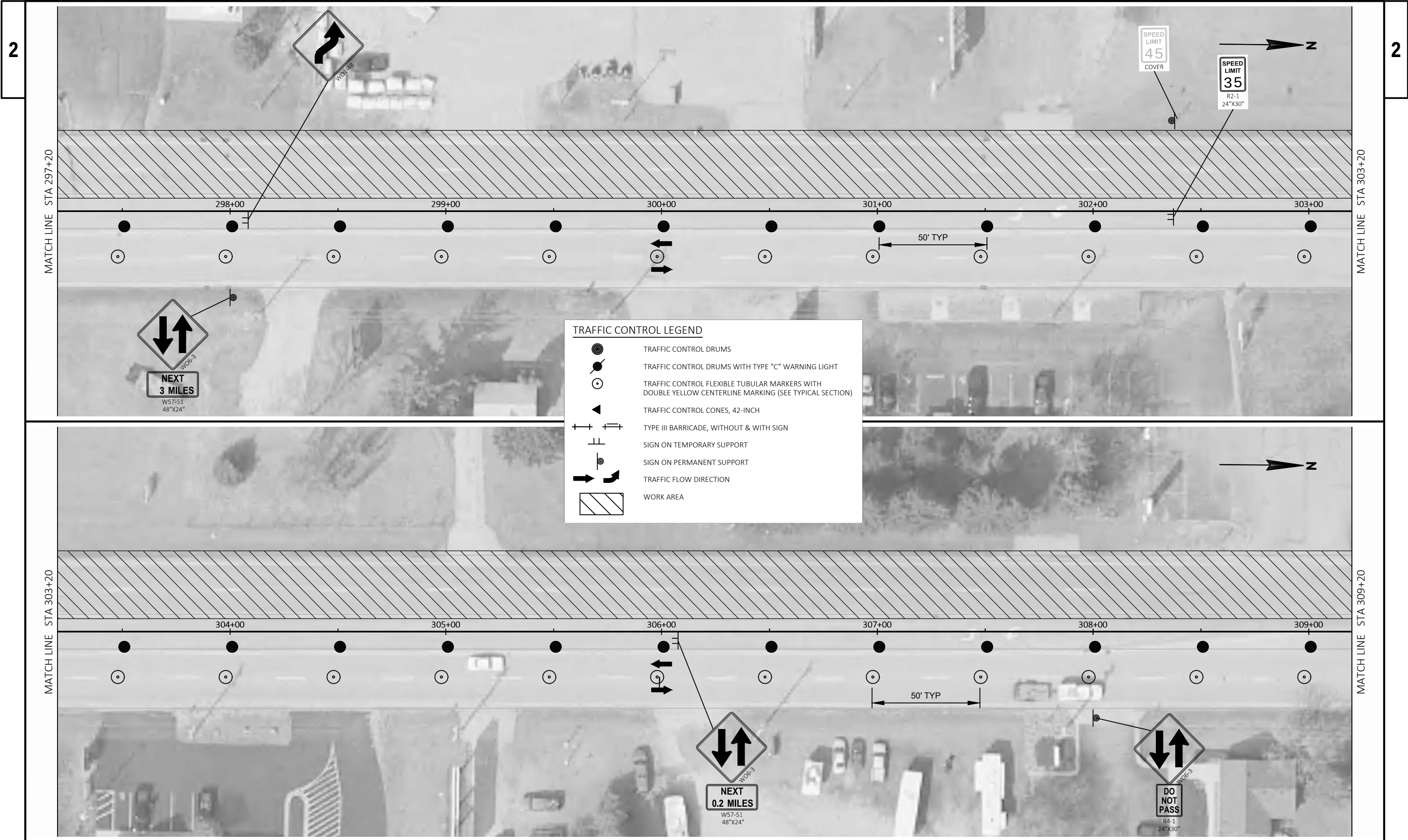
MATCH LINE STA 273+20

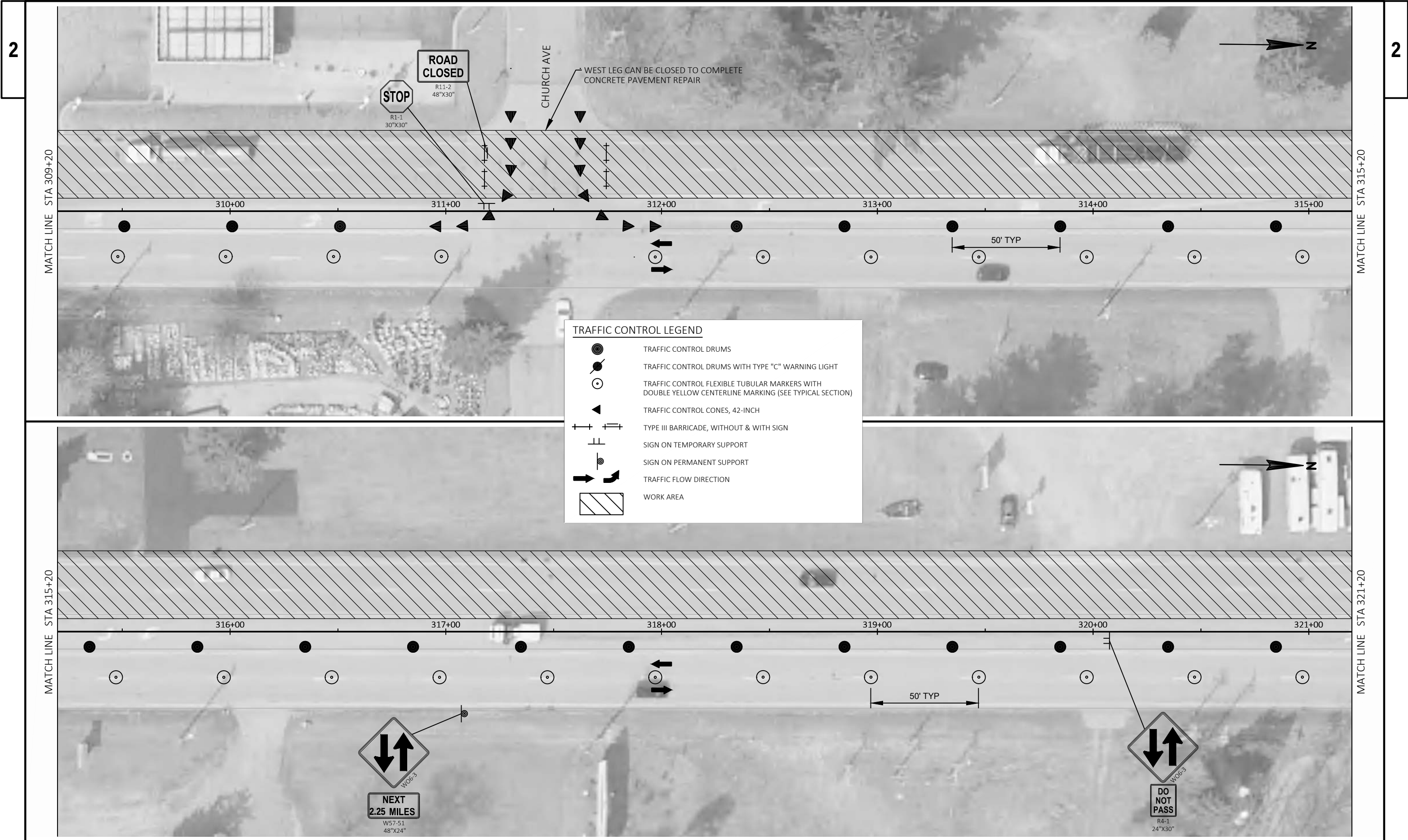
TRAFFIC CONTROL LEGEND

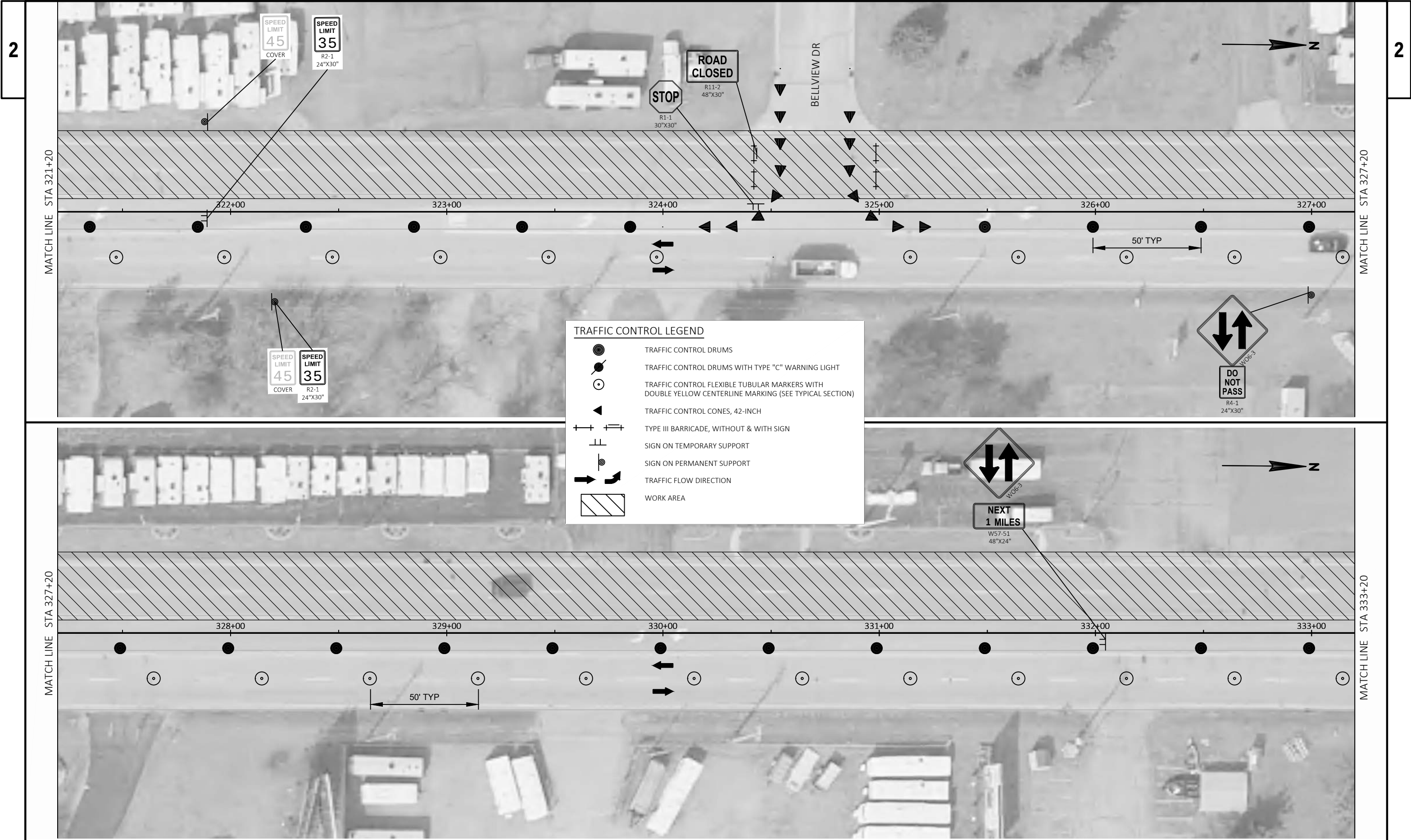
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH TYPE "C" WARNING LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS WITH DOUBLE YELLOW CENTERLINE MARKING (SEE TYPICAL SECTION)
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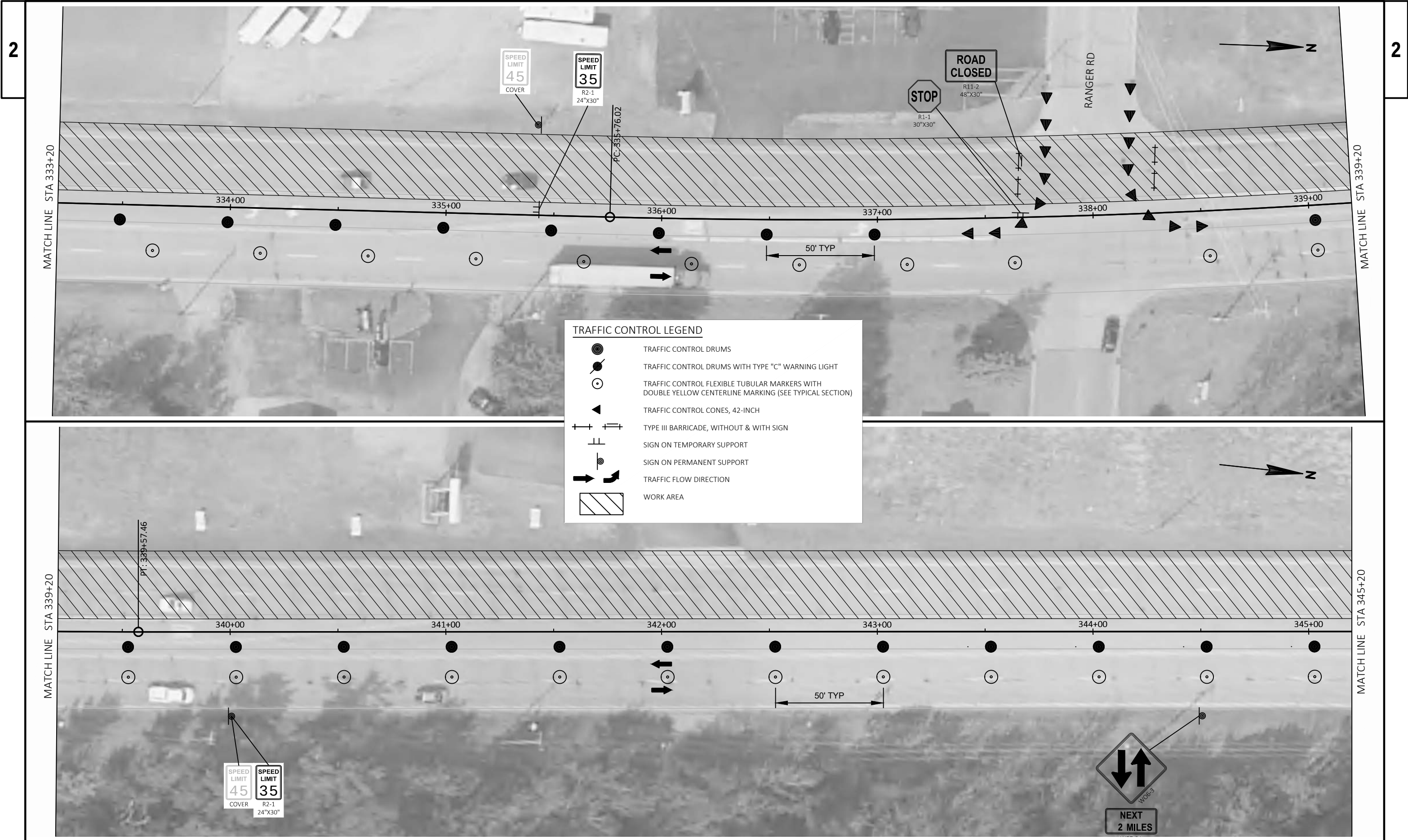


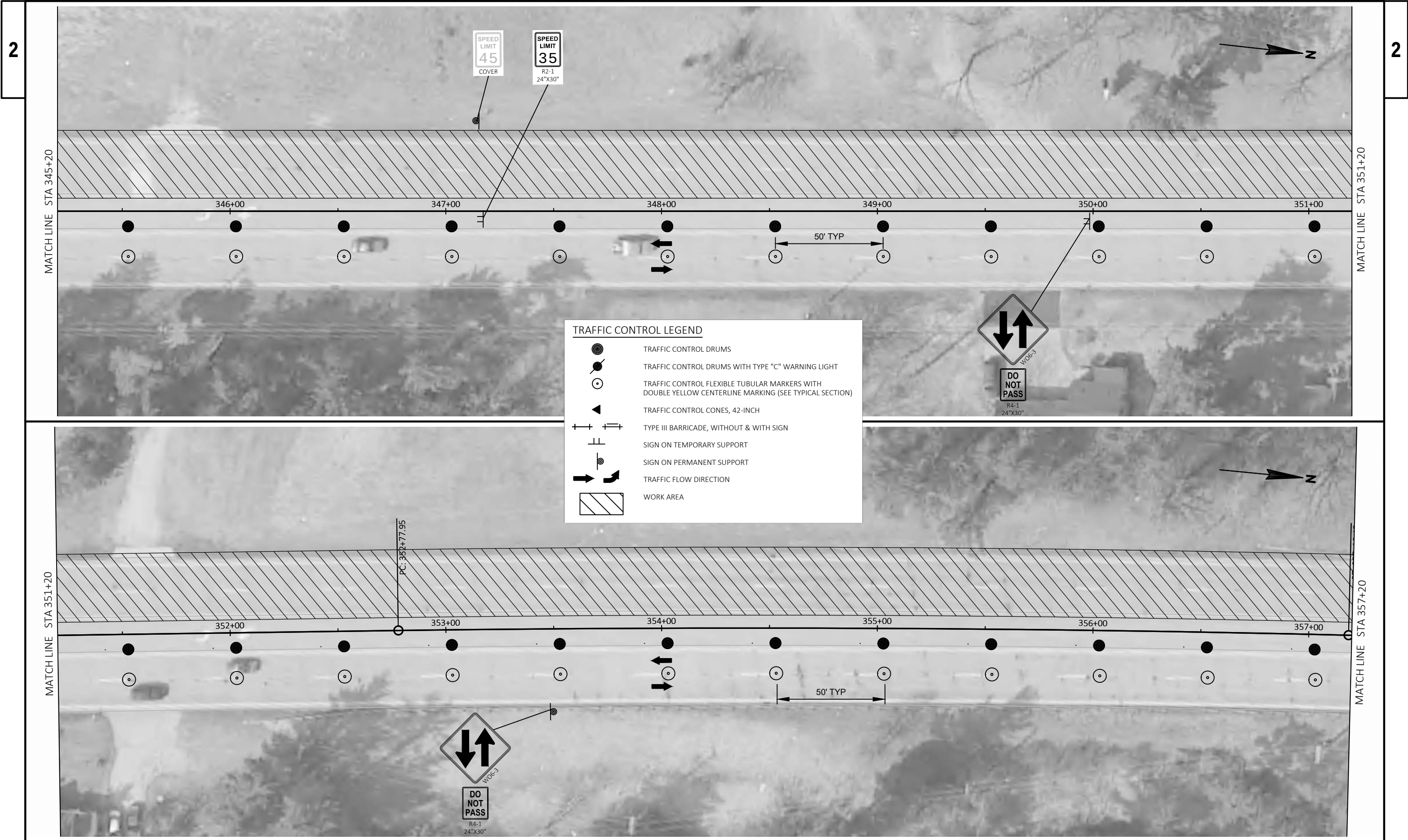




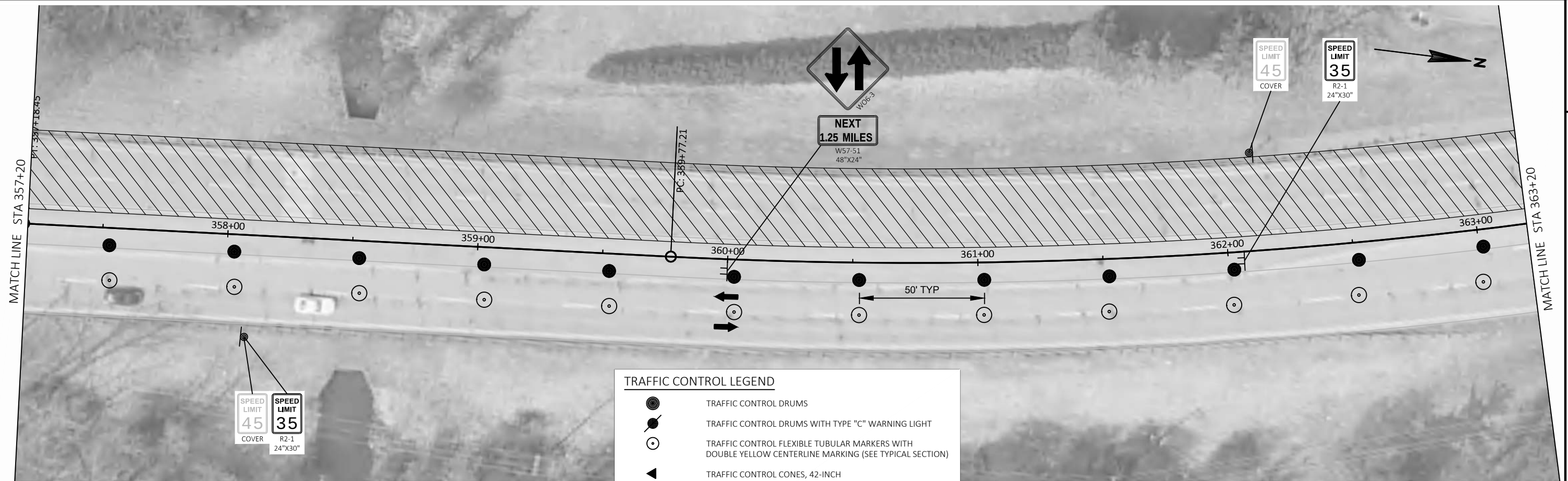




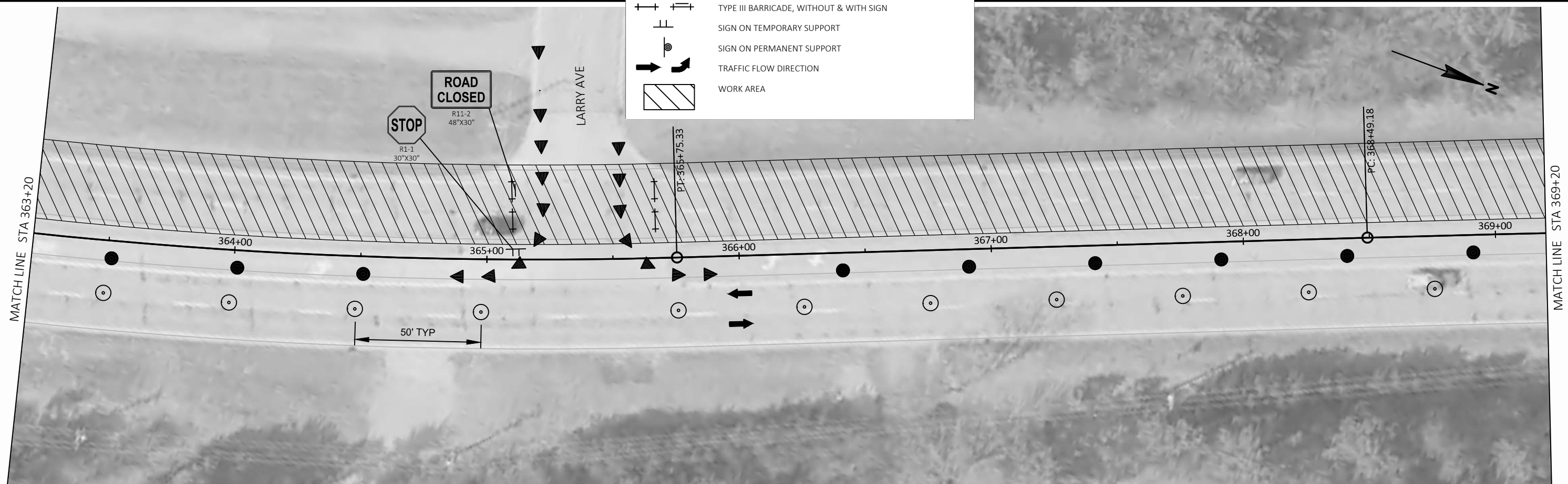




2



2 |



PROJECT NO:	6140-00-82
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HWY: STH 13

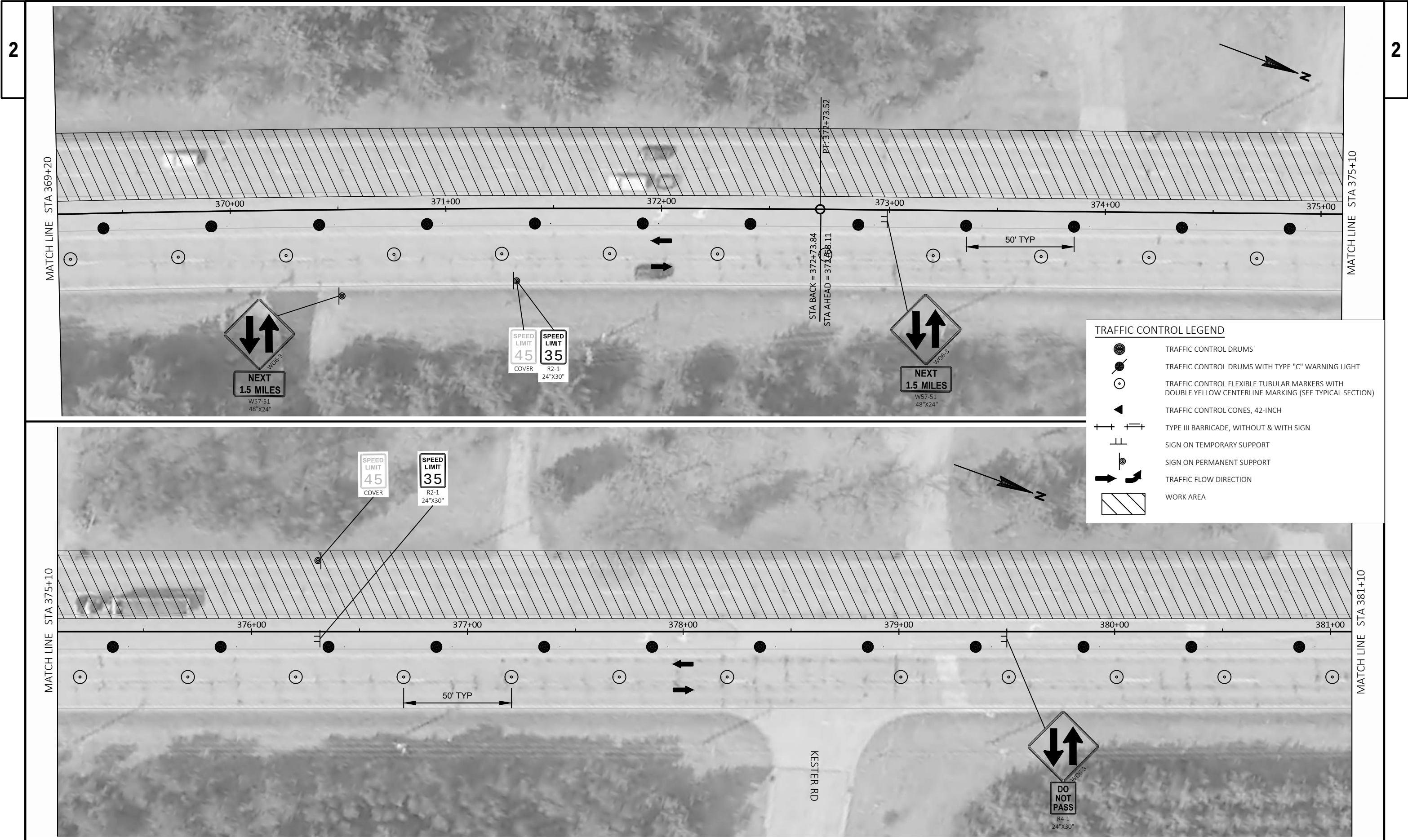
COUNTY: WOOD

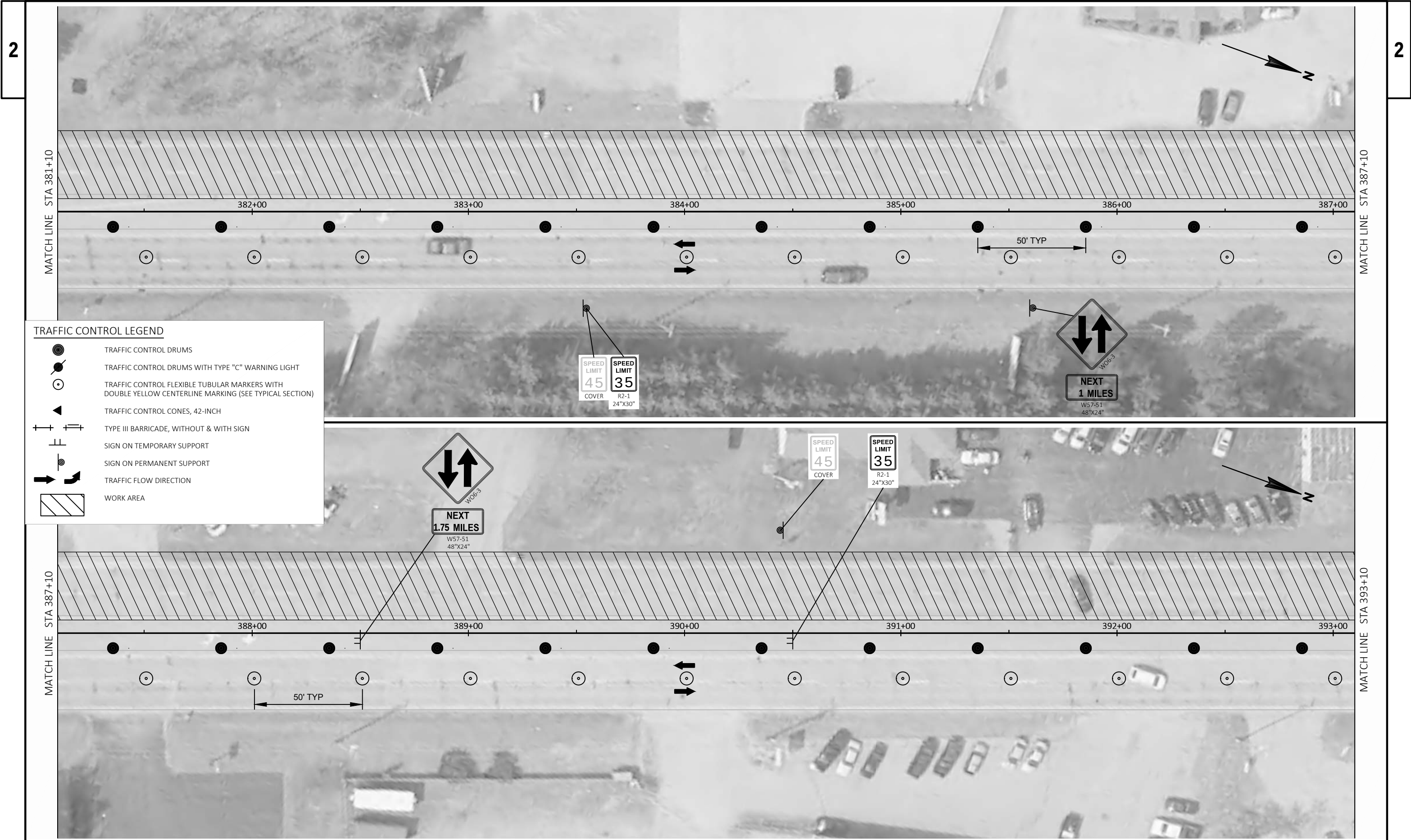
TRAFFIC CONTROL - STAGE 3

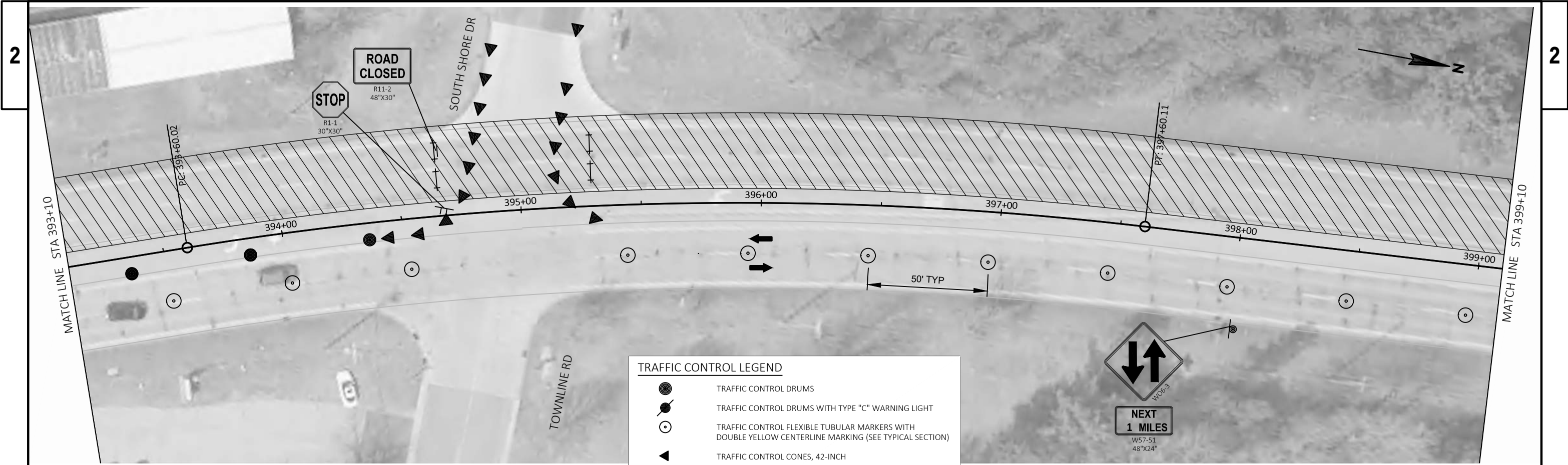
SHEET

67

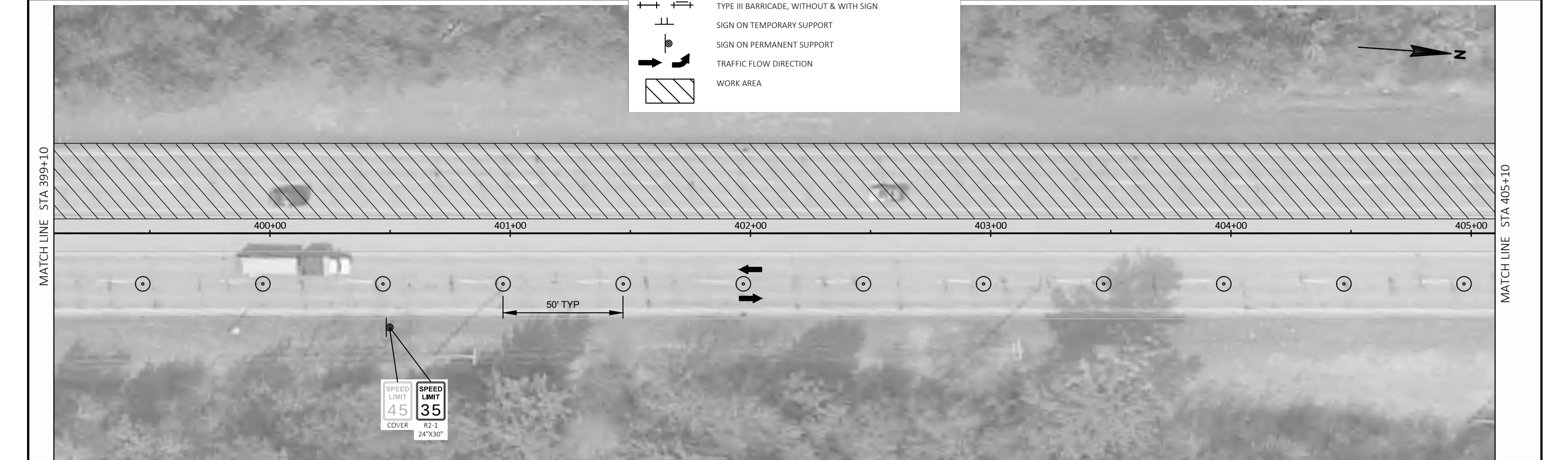
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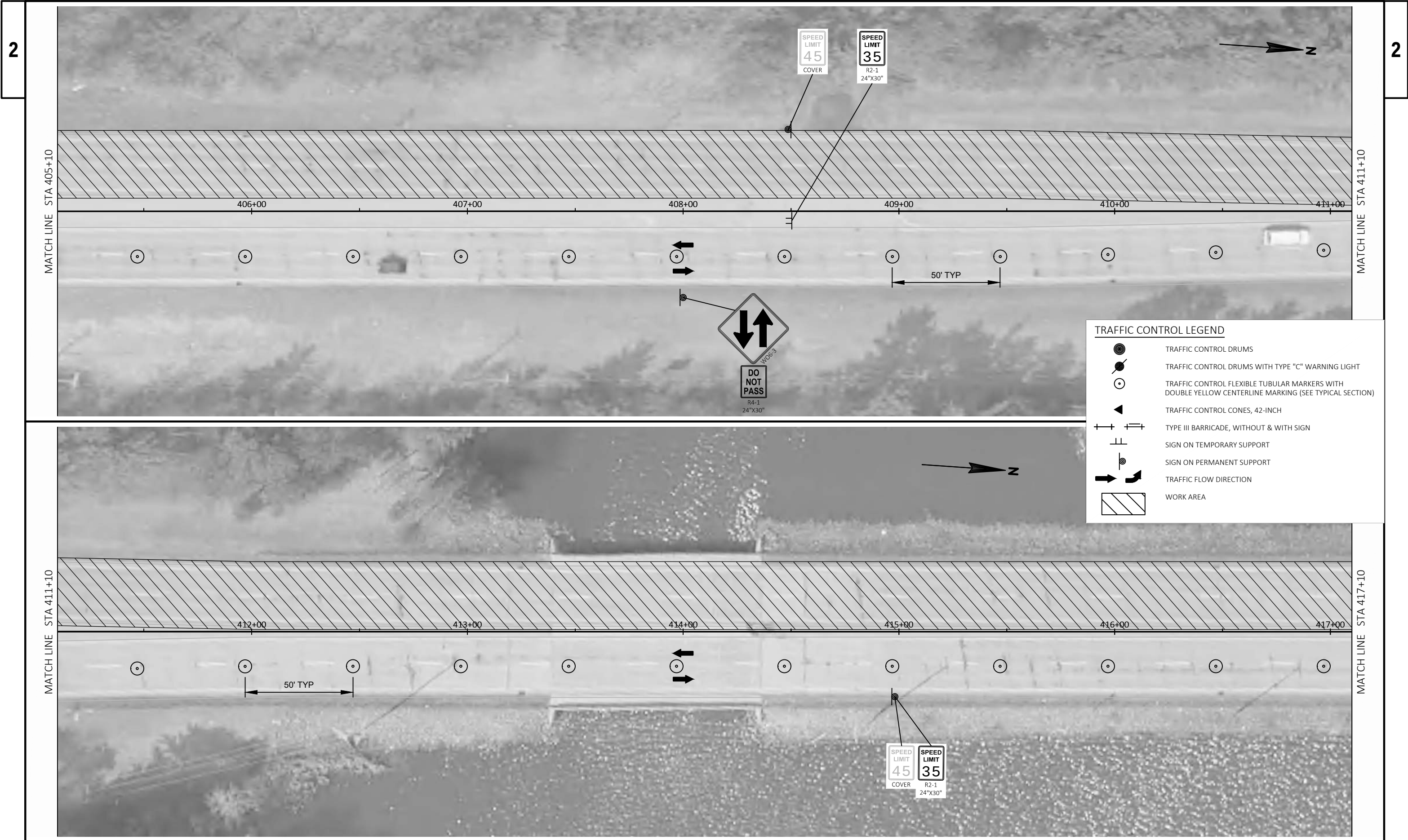




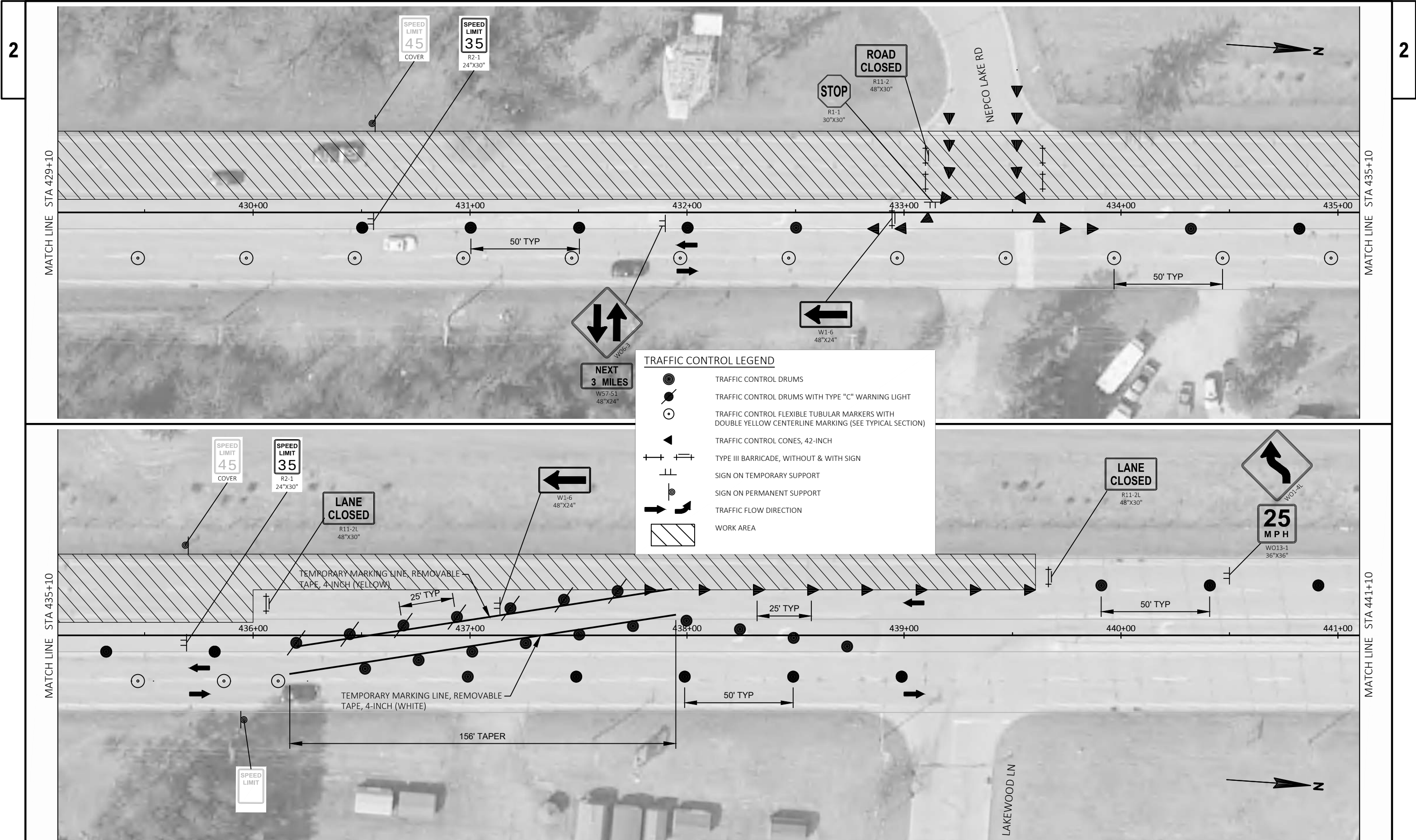


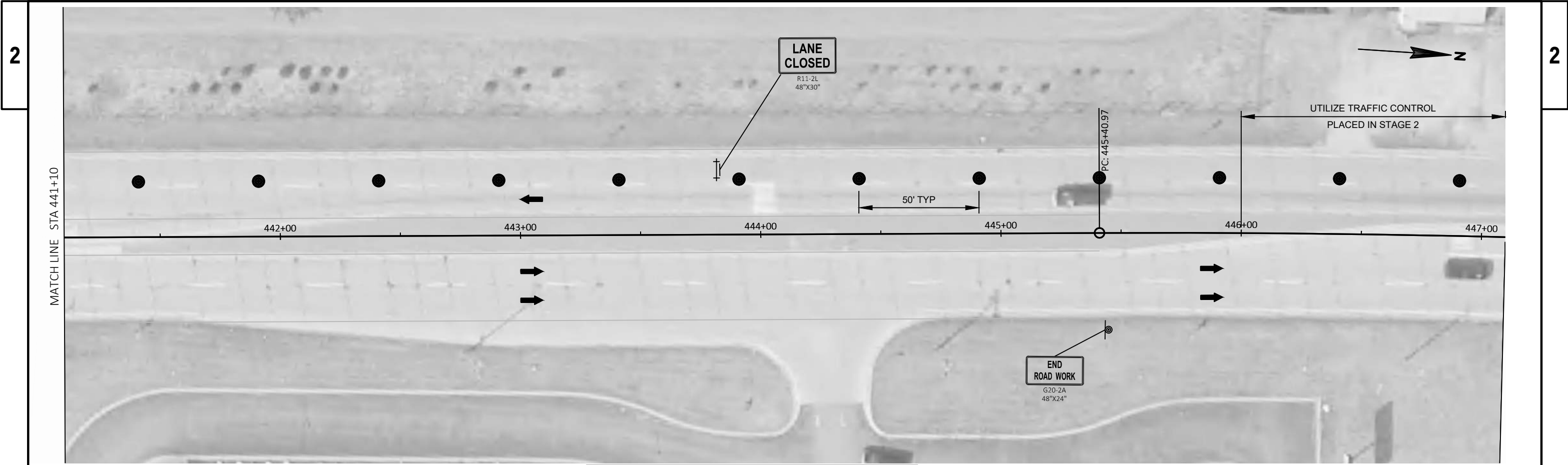
TRAFFIC CONTROL LEGEND	
	TRAFFIC CONTROL DRUMS
	TRAFFIC CONTROL DRUMS WITH TYPE "C" WARNING LIGHT
	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS WITH DOUBLE YELLOW CENTERLINE MARKING (SEE TYPICAL SECTION)
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	TYPE III BARRICADE, WITHOUT & WITH SIGN
	SIGN ON TEMPORARY SUPPORT
	SIGN ON PERMANENT SUPPORT
	TRAFFIC FLOW DIRECTION
	WORK AREA







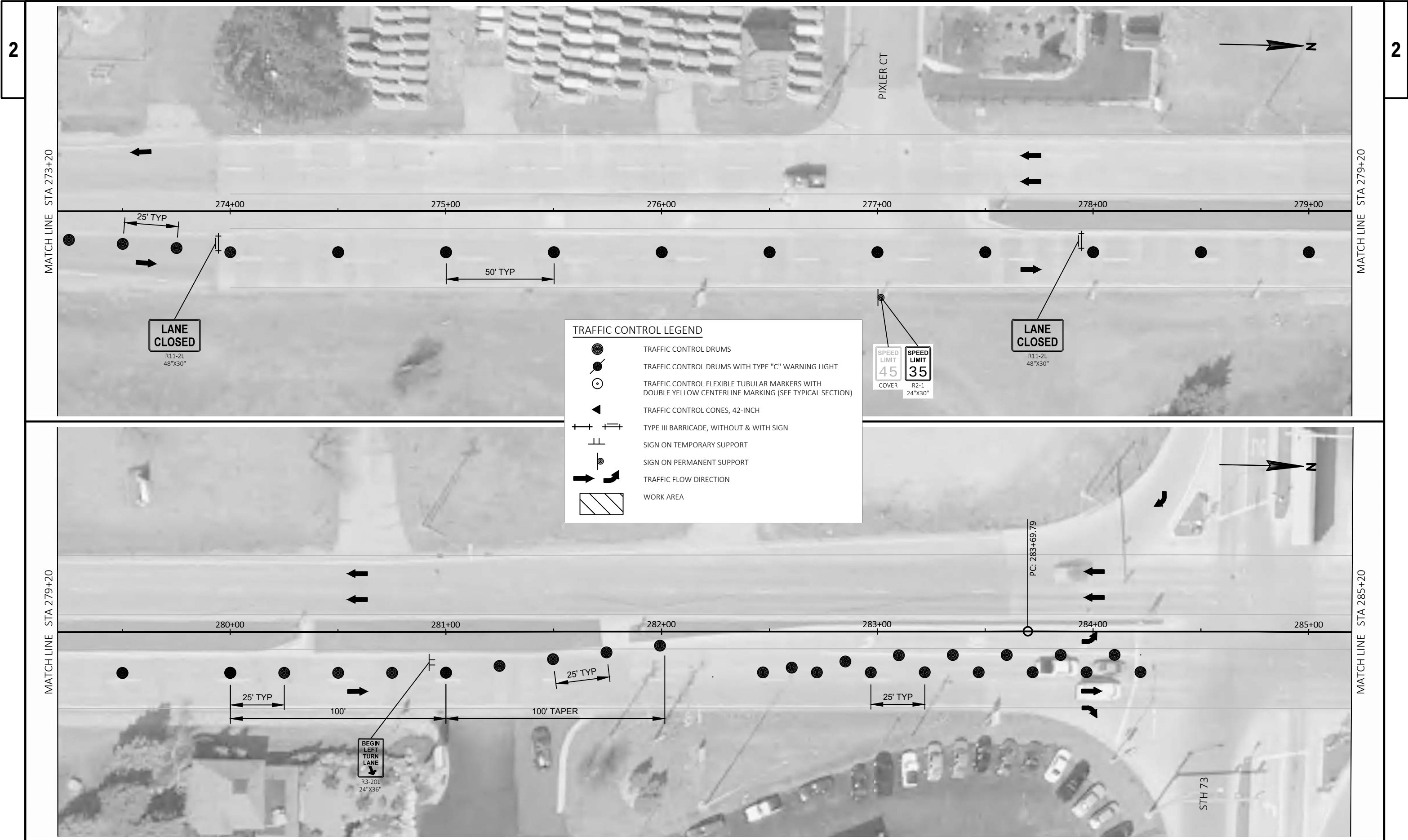


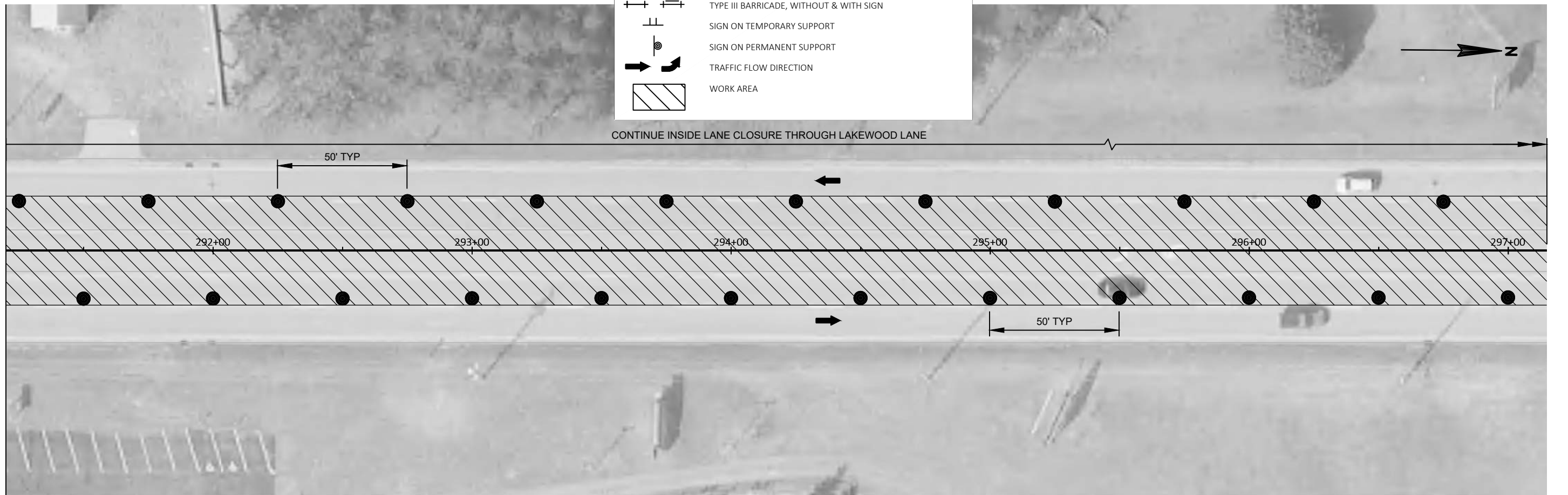
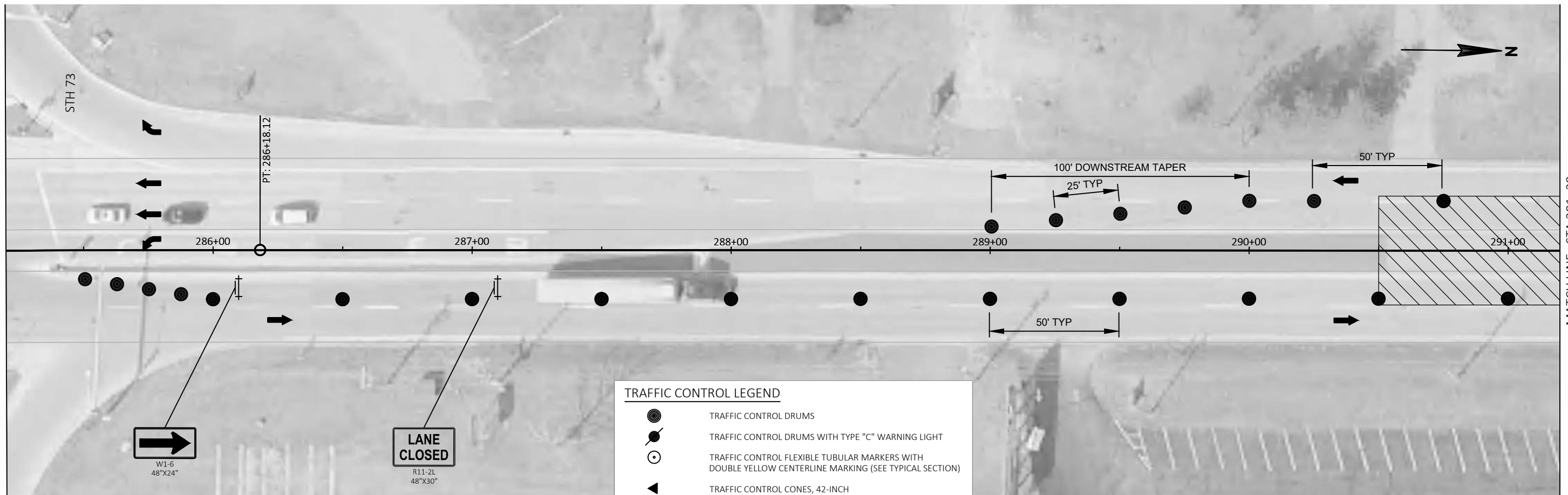


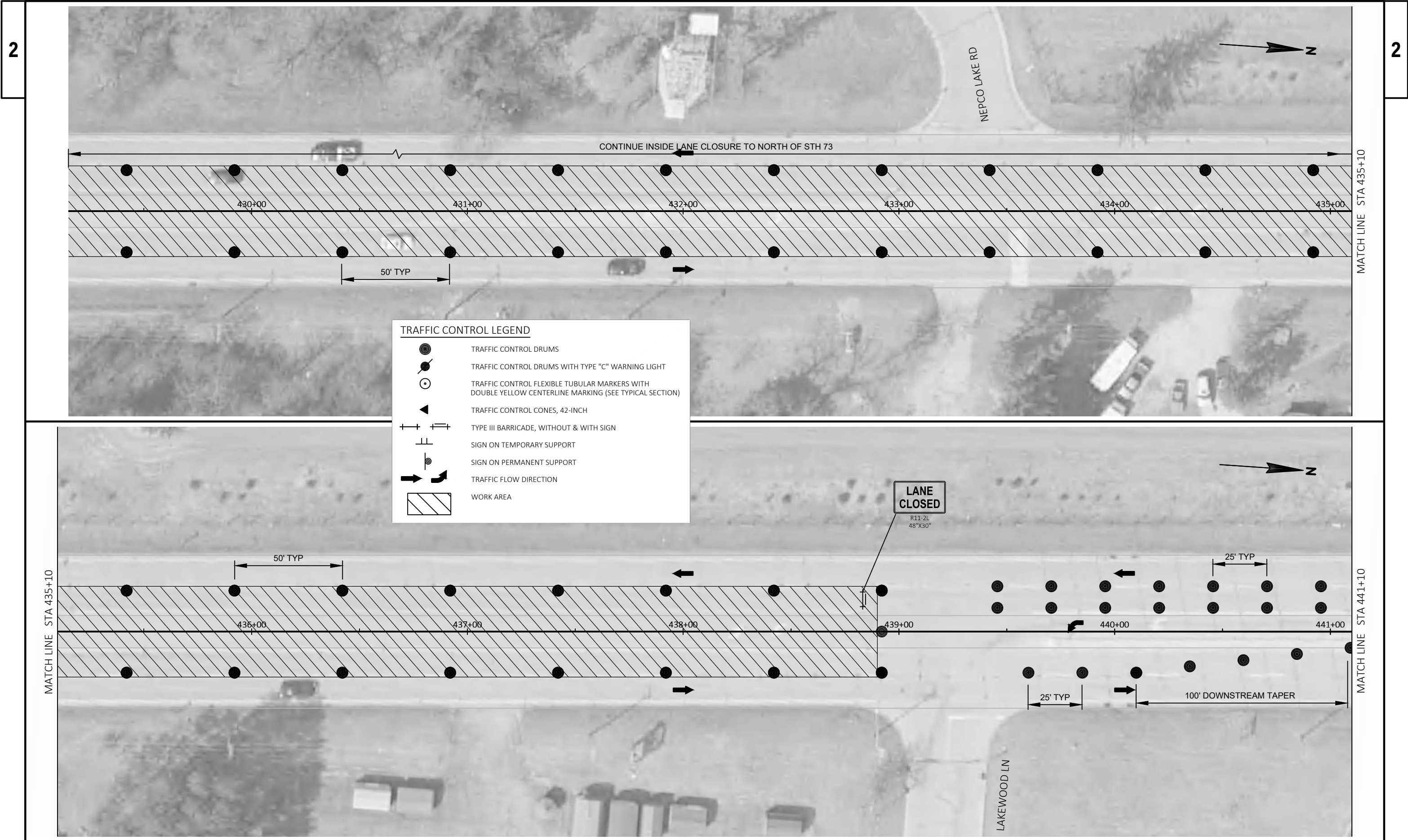
TRAFFIC CONTROL LEGEND	
	TRAFFIC CONTROL DRUMS
	TRAFFIC CONTROL DRUMS WITH TYPE "C" WARNING LIGHT
	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS WITH DOUBLE YELLOW CENTERLINE MARKING (SEE TYPICAL SECTION)
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	TYPE III BARRICADE, WITHOUT & WITH SIGN
	SIGN ON TEMPORARY SUPPORT
	SIGN ON PERMANENT SUPPORT
	TRAFFIC FLOW DIRECTION
	WORK AREA





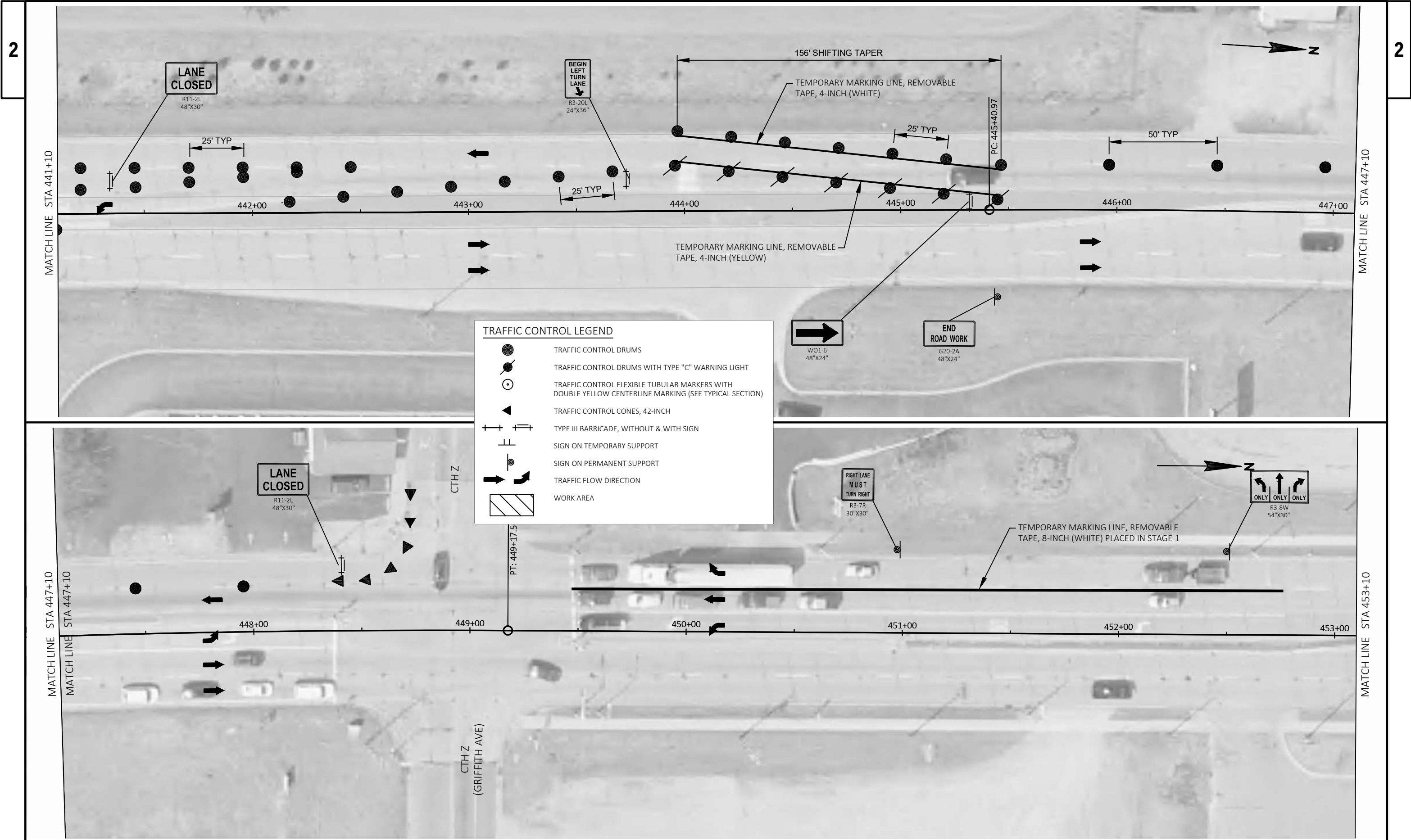






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2



PROJECT NO: 6140-00-82

HWY: STH 13

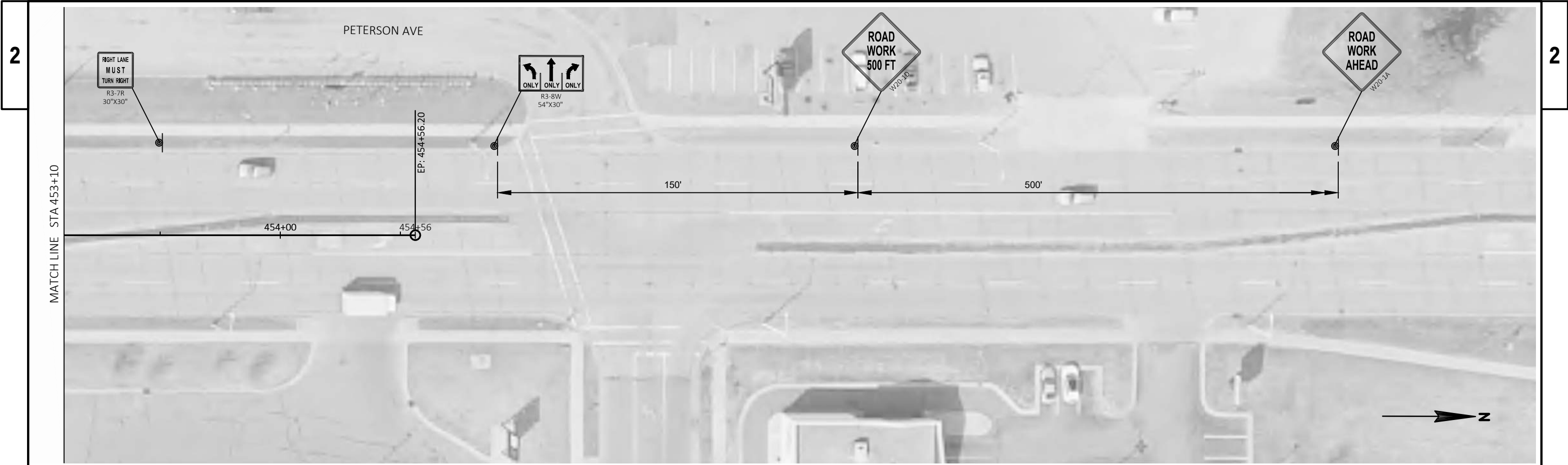
COUNTY: WOOD

TRAFFIC CONTROL - STAGE 4

SHEET

80

E



TRAFFIC CONTROL LEGEND	
	TRAFFIC CONTROL DRUMS
	TRAFFIC CONTROL DRUMS WITH TYPE "C" WARNING LIGHT
	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS WITH DOUBLE YELLOW CENTERLINE MARKING (SEE TYPICAL SECTION)
	TRAFFIC CONTROL CONES, 42-INCH
	TYPE III BARRICADE, WITHOUT & WITH SIGN
	SIGN ON TEMPORARY SUPPORT
	SIGN ON PERMANENT SUPPORT
	TRAFFIC FLOW DIRECTION
	WORK AREA

Estimate Of Quantities

6140-00-82					
Line	Item	Item Description	Unit	Total	Qty
0002	204.0100	Removing Pavement	SY	59,330.000	59,330.000
0004	204.0110	Removing Asphaltic Surface	SY	2,100.000	2,100.000
0006	204.0150	Removing Curb & Gutter	LF	610.000	610.000
0008	204.0165	Removing Guardrail	LF	1,710.000	1,710.000
0010	204.9090.S	Removing (item description) 01. Drain Slotted Vain	LF	18.000	18.000
0012	204.9090.S	Removing (item description) 02. Removing Silt Fence	LF	2,340.000	2,340.000
0014	205.0100	Excavation Common	CY	385.000	385.000
0016	209.1100	Backfill Granular Grade 1	CY	210.000	210.000
0018	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 6140-00-82	LS	1.000	1.000
0020	213.0100	Finishing Roadway (project) 01. 6140-00-82	EACH	1.000	1.000
0022	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	9,700.000	9,700.000
0024	416.0160	Concrete Driveway 6-Inch	SY	7.000	7.000
0026	416.0610	Drilled Tie Bars	EACH	445.000	445.000
0028	416.0620	Drilled Dowel Bars	EACH	1,500.000	1,500.000
0030	416.1710	Concrete Pavement Repair	SY	850.000	850.000
0032	416.1720	Concrete Pavement Replacement	SY	600.000	600.000
0034	440.4410	Incentive IRI Ride	DOL	15,260.000	15,260.000
0036	455.0605	Tack Coat	GAL	8,070.000	8,070.000
0038	460.2000	Incentive Density HMA Pavement	DOL	14,310.000	14,310.000
0040	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	60,400.000	60,400.000
0042	460.6223	HMA Pavement 3 MT 58-28 S	TON	16,570.000	16,570.000
0044	460.6424	HMA Pavement 4 MT 58-28 H	TON	5,800.000	5,800.000
0046	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	420.000	420.000
0048	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	450.000	450.000
0050	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	1,680.000	1,680.000
0052	611.0624	Inlet Covers Type H	EACH	2.000	2.000
0054	611.0642	Inlet Covers Type MS	EACH	1.000	1.000
0056	611.0666	Inlet Covers Type Z	EACH	1.000	1.000
0058	611.8110	Adjusting Manhole Covers	EACH	29.000	29.000
0060	611.8115	Adjusting Inlet Covers	EACH	34.000	34.000
0062	611.9900.S	Drain Slotted Vane	EACH	2.000	2.000
0064	614.0010	Barrier System Grading Shaping Finishing	EACH	4.000	4.000
0066	614.2300	MGS Guardrail 3	LF	1,475.000	1,475.000
0068	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0070	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6140-00-82	EACH	1.000	1.000
0072	619.1000	Mobilization	EACH	1.000	1.000
0074	620.0300	Concrete Median Sloped Nose	SF	30.000	30.000
0076	624.0100	Water	MGAL	176.000	176.000

Estimate Of Quantities

6140-00-82

Line	Item	Item Description	Unit	Total	Qty
0078	628.1504	Silt Fence	LF	1,370.000	1,370.000
0080	628.1520	Silt Fence Maintenance	LF	2,340.000	2,340.000
0082	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0084	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0086	628.2006	Erosion Mat Urban Class I Type A	SY	250.000	250.000
0088	628.7010	Inlet Protection Type B	EACH	1.000	1.000
0090	628.7015	Inlet Protection Type C	EACH	78.000	78.000
0092	628.7020	Inlet Protection Type D	EACH	36.000	36.000
0094	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	11.000	11.000
0096	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	40.000	40.000
0098	637.2210	Signs Type II Reflective H	SF	445.560	445.560
0100	637.2230	Signs Type II Reflective F	SF	4.500	4.500
0102	638.2602	Removing Signs Type II	EACH	54.000	54.000
0104	638.3000	Removing Small Sign Supports	EACH	54.000	54.000
0106	642.5201	Field Office Type C	EACH	1.000	1.000
0108	643.0300	Traffic Control Drums	DAY	58,842.000	58,842.000
0110	643.0420	Traffic Control Barricades Type III	DAY	3,896.000	3,896.000
0112	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	646.000	646.000
0114	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	646.000	646.000
0116	643.0705	Traffic Control Warning Lights Type A	DAY	7,660.000	7,660.000
0118	643.0715	Traffic Control Warning Lights Type C	DAY	3,225.000	3,225.000
0120	643.0800	Traffic Control Arrow Boards	DAY	37.000	37.000
0122	643.0900	Traffic Control Signs	DAY	17,963.000	17,963.000
0124	643.0920	Traffic Control Covering Signs Type II	EACH	22.000	22.000
0126	643.1000	Traffic Control Signs Fixed Message	SF	64.000	64.000
0128	643.1070	Traffic Control Cones 42-Inch	DAY	12,210.000	12,210.000
0130	643.5000	Traffic Control	EACH	1.000	1.000
0132	646.1020	Marking Line Epoxy 4-Inch	LF	63,612.000	63,612.000
0134	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	8,278.000	8,278.000
0136	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	2,450.000	2,450.000
0138	646.5020	Marking Arrow Epoxy	EACH	71.000	71.000
0140	646.5120	Marking Word Epoxy	EACH	10.000	10.000
0142	646.6120	Marking Stop Line Epoxy 18-Inch	LF	109.000	109.000
0144	646.8120	Marking Curb Epoxy	LF	240.000	240.000
0146	646.8220	Marking Island Nose Epoxy	EACH	8.000	8.000
0148	646.9300	Marking Removal Special Marking	EACH	36.000	36.000
0150	649.0105	Temporary Marking Line Paint 4-Inch	LF	18,690.000	18,690.000
0152	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	38,524.000	38,524.000
0154	649.0250	Temporary Marking Line Removable Tape 8-Inch	LF	330.000	330.000
0156	650.4000	Construction Staking Storm Sewer	EACH	2.000	2.000

Estimate Of Quantities

6140-00-82					
Line	Item	Item Description	Unit	Total	Qty
0158	650.4500	Construction Staking Subgrade	LF	105.000	105.000
0160	650.5000	Construction Staking Base	LF	20,124.000	20,124.000
0162	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	800.000	800.000
0164	650.9910	Construction Staking Supplemental Control (project) 01. 6140-00-82	LS	1.000	1.000
0166	690.0150	Sawing Asphalt	LF	13,040.000	13,040.000
0168	690.0250	Sawing Concrete	LF	36,560.000	36,560.000
0170	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	2,000.000	2,000.000
0172	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	1,260.000	1,260.000
0174	SPV.0090	Special 01. Concrete Curb & Gutter 12-Inch Special	LF	210.000	210.000
0176	SPV.0090	Special 02. Concrete Curb & Gutter 48-Inch Special	LF	32.000	32.000
0178	SPV.0090	Special 03. Restoration for Curb Replacement	LF	1,245.000	1,245.000
0180	SPV.0125	Special 01. Prepare Existing Median Pavement for Seal Coat Special	MI	2.700	2.700
0182	SPV.0180	Special 01. Seal Coat Special	SY	27,220.000	27,220.000

3

REMOVING PAVEMENT

STATION	-	STATION	LOCATION	204.0100 REMOVING PAVEMENT SY	204.0110 REMOVING ASPHALTIC SURFACE SY
CATEGORY 0010					
STAGE 1					
345+20	-	357+20	STH 13 SB	340	---
357+20	-	369+20	STH 13 SB	1,100	---
436+00	-	439+55	STH 13	1,190	65
STAGE 2					
274+00	-	285+20	STH 13 SB	---	---
285+20	-	297+20	STH 13 SB	---	5
297+20	-	309+20	STH 13 SB	---	4
309+20	-	321+20	STH 13 SB	---	8
321+20	-	333+20	STH 13 SB	---	3
333+20	-	345+20	STH 13 SB	2,710	50
345+20	-	357+20	STH 13 SB	3,100	140
357+20	-	369+20	STH 13 SB	2,310	220
369+20	-	381+10	STH 13 SB	3,680	100
381+10	-	393+10	STH 13 SB	3,380	190
393+10	-	405+10	STH 13 SB	3,640	120
405+10	-	417+10	STH 13 SB	3,000	---
417+10	-	429+10	STH 13 SB	3,270	---
429+10	-	441+10	STH 13 SB	2,400	60
STAGE 3					
274+00	-	285+20	STH 13 NB	---	---
285+20	-	297+20	STH 13 NB	---	---
297+20	-	309+20	STH 13 NB	---	5
309+20	-	321+20	STH 13 NB	---	10
321+20	-	333+20	STH 13 NB	---	---
333+20	-	345+20	STH 13 NB	2,210	170
345+20	-	357+20	STH 13 NB	3,440	140
357+20	-	369+20	STH 13 NB	3,740	100
369+20	-	381+10	STH 13 NB	3,410	200
381+10	-	393+10	STH 13 NB	3,340	230
393+10	-	405+10	STH 13 NB	3,500	120
405+10	-	417+10	STH 13 NB	2,940	---
417+10	-	429+10	STH 13 NB	3,640	---
429+10	-	441+10	STH 13 NB	2,890	60
UNDISTRIBUTED				100	100

PROJECT TOTAL 59,330 2,100

PREPARE FOUNDATION FOR ASPHALTIC PAVING
6140-00-82

STATION TO STATION	LOCATION	211.0100 PREPARE FOUNDATION FOR ASPHALTIC PAVING 6140-00-82 LS
CATEGORY 0010		
337+56	- 439+56	STH 13 1

PROJECT TOTALS 1

REMOVING CURB & GUTTER

STATION	TO	STATION	DIR	LOCATION	204.0150 REMOVING CURB & GUTTER (MEDIAN) LF	204.0150 REMOVING CURB & GUTTER (OUTSIDE) LF
CATEGORY 0010						
STAGE 2						
270+00	-	285+20	R/L	STH 13 SB	---	15
285+20	-	297+20	R/L	STH 13 SB	24	15
297+20	-	309+20	R/L	STH 13 SB	9	---
309+20	-	321+20	R/L	STH 13 SB	50	---
321+20	-	333+20	R/L	STH 13 SB	10	118
333+20	-	345+20	R/L	STH 13 SB	10	---
STAGE 3						
270+00	-	285+20	R/L	STH 13 NB	---	154
285+20	-	297+20	R/L	STH 13 NB	---	29
297+20	-	309+20	R/L	STH 13 NB	17	30
309+20	-	321+20	R/L	STH 13 NB	15	---
321+20	-	333+20	R/L	STH 13 NB	---	---
333+20	-	345+20	R/L	STH 13 NB	10	---
UNDISTRIBUTED					55	49

COLUMN TOTAL 200 410

PROJECT TOTAL 610

EXCAVATION COMMON

STATION	-	STATION	LOCATION	205.0100 EXCAVATION COMMON CY
CATEGORY 0010				
STAGE 3				
406+50	-	407+55	STH 13 SB	385

PROJECT TOTAL 385

REMOVING GUARDRAIL

STATION	TO	STATION	DIR	LOCATION	204.0165 REMOVING GUARDRAIL LF
CATEGORY 0010					
STAGE 2					
352+08	-	363+02	RT	STH 13	1090
STAGE 3					
356+78	-	362+93	LT	STH 13	620

PROJECT TOTALS 1710

GRANULAR BACKFILL

STATION	-	STATION	LOCATION	209.1100 GRANULAR BACKFILL GRADE 1 CY
CATEGORY 0010				
STAGE 3				
406+42	-	407+63	STH 13 SB	210

PROJECT TOTAL 210

REMOVING SILT FENCE

STATION	TO	STATION	LOCATION	204.9090.02.S REMOVING SILT FENCE LF	REMARKS
CATEGORY 0010					
351+75	-	356+12	STH 13 RT	450	* INSTALLATION OF SILT FENCE DONE BY OTHERS
356+12	-	360+75	STH 13 RT	500	* INSTALLATION OF SILT FENCE DONE BY OTHERS
356+75	-	360+75	STH 13 LT	470	
360+75	-	363+50	STH 13 RT	300	
360+75	-	363+50	STH 13 LT	300	
414+55	-	414+75	STH 13 RT	20	
415+15	-	415+35	STH 13 LT	20	
415+60	-	415+80	STH 13 LT	20	
416+35	-	416+65	STH 13 RT	30	
416+60	-	416+80	STH 13 LT	20	
418+65	-	416+85	STH 13 RT	20	
419+80	-	420+00	STH 13 RT	20	
419+80	-	420+50	STH 13 LT	70	
UNDISTRIBUTED				100	

PROJECT TOTAL 2,340

BASE AGGREGATE & WATER

STATION TO STATION			LOCATION	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL
CATEGORY 0010					
STAGE 1					
345+20	-	357+20	STH 13 SB	50	0
357+20	-	369+20	STH 13 SB	180	1
436+00	-	439+55	STH 13	190	1
STAGE 2					
337+56	-	413+20	STH 13 SB	3400	20
414+57	-	439+55	STH 13 SB	1000	6
STAGE 3					
337+56	-	413+20	STH 13 NB	3500	21
414+57	-	439+55	STH 13 NB	1200	7
DWY/INTERSECTION ACCESS			STH 13	410	---
DUST CONTROL			STH 13	---	120
PROJECT TOTALS				9,700	176

CONCRETE SLOPED NOSE

STATION	TO	STATION	DIR	LOCATION	620.0300 CONCRETE MEDIAN SLOPLED NOSE SF
CATEGORY 0010					
432+95	-	433+00	R/L	STH 13	30
PROJECT TOTAL					30

ASPHALTIC ITEMS

STATION TO STATION		DIR	LOCATION	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6424 HMA PAVEMENT 4 MT 58-28 H TON	460.4110.S REHEATING HMA LONGITUDINAL JOINTS LF
CATEGORY 0010							
STAGE 1							
345+20	-	357+20	R/L	STH 13 SB	47	97	34
357+20	-	369+20	R/L	STH 13 SB	154	317	111
436+00	-	439+55	R/L	STH 13	167	343	120
STAGE 2							
337+56	-	413+20	R/L	STH 13 SB	2,927	6,014	22,692
414+57	-	439+55	R/L	STH 13 SB	891	1,831	7,494
STAGE3							
337+56	-	413+20	R/L	STH 13 NB	3,065	6,302	22,692
414+57	-	439+55	R/L	STH 13 NB	1,011	2,077	7,494
PROJECT TOTALS				8,062	16,568	5,799	60,372
ROUNDED TOTALS				8,070	16,570	5,800	60,400

CONCRETE PAVEMENT REPAIR

STATION	TO	STATION	LOCATION	416.1710 CONCRETE PAVEMENT REPAIR SY
CATEGORY 0010				
STAGE 2				
270+00	-	285+20	STH 13	---
285+20	-	297+20	STH 13	---
297+20	-	309+20	STH 13	80
309+20	-	321+20	STH 13	110
321+20	-	333+20	STH 13	---
333+20	-	345+20	STH 13	10
STAGE 3				
270+00	-	285+20	STH 13	240
285+20	-	297+20	STH 13	50
297+20	-	309+20	STH 13	50
309+20	-	321+20	STH 13	80
321+20	-	333+20	STH 13	130
333+20	-	345+20	STH 13	50
UNDISTRIBUTED			STH 13	50
PROJECT TOTAL				850

CONCRETE DRIVEWAY

STATION	TO	STATION	LOCATION	416.0160 CONCRETE DRIVEWAY 6-INCH SY
CATEGORY 0010				
STAGE 2				
341+90	-	342+40	STH 13	7
PROJECT TOTAL				7

CONCRETE PAVEMENT REPLACEMENT

STATION	TO	STATION	LOCATION	416.1720 CONCRETE PAVEMENT REPLACEMENT SY
CATEGORY 0010				
STAGE 2				
274+00	-	285+20	STH 13	---
297+20	-	309+20	STH 13	---
321+20	-	333+20	STH 13	51
333+20	-	345+20	STH 13	25
STAGE 3				
274+00	-	285+20	STH 13	400
297+20	-	309+20	STH 13	80
321+20	-	333+20	STH 13	25
333+20	-	345+20	STH 13	---
UNDISTRIBUTED			STH 13	19
PROJECT TOTALS				600

DRILLED TIE BARS

STATION	TO	STATION	DIR	LOCATION	416.0610 DRILLED TIE BARS EACH
CATEGORY 0010					
270+00	-	285+20	R/L	STH 13	194
285+20	-	297+20	R/L	STH 13	7
297+20	-	309+20	R/L	STH 13	56
309+20	-	321+20	R/L	STH 13	25
321+20	-	333+20	R/L	STH 13	71
333+20	-	345+20	R/L	STH 13	51
UNDISTRIBUTED				STH 13	41
PROJECT TOTAL					445

DRILLED DOWEL BARS

STATION	TO	STATION	DIR	LOCATION	416.0620 DRILLED DOWEL BARS EACH
CATEGORY 0010					
274+00	-	285+20	R/L	STH 13	448
285+20	-	297+20	R/L	STH 13	80
297+20	-	309+20	R/L	STH 13	272
309+20	-	321+20	R/L	STH 13	300
321+20	-	333+20	R/L	STH 13	272
333+20	-	345+20	R/L	STH 13	102
UNDISTRIBUTED				STH 13	26
PROJECT TOTAL					1500

CONCRETE CURB & GUTTER

				601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	SPV.0090.01 CONCRETE CURB & GUTTER 12-INCH SPECIAL LF	SPV.0090.02 CONCRETE CURB & GUTTER 48-INCH SPECIAL LF
STATION	TO	STATION	LOCATION					
CATEGORY 0010								
STAGE 1								
345+20	-	357+20	STH 13 SB	---	---	38	---	---
357+20	-	369+20	STH 13 SB	---	---	92	---	---
STAGE 2								
270+00	-	285+20	STH 13 SB	---	15	---	---	---
285+20	-	297+20	STH 13 SB	---	15	---	24	---
297+20	-	309+20	STH 13 SB	---	---	---	9	---
309+20	-	321+20	STH 13 SB	---	---	---	51	---
321+20	-	333+20	STH 13 SB	---	118	---	11	---
333+20	-	345+20	STH 13 SB	---	---	18	10	---
345+20	-	357+20	STH 13 SB	---	---	67	---	---
357+20	-	369+20	STH 13 SB	---	---	---	---	---
369+20	-	381+10	STH 13 SB	---	---	15	---	---
381+10	-	393+10	STH 13 SB	---	---	28	---	---
393+10	-	405+10	STH 13 SB	179	---	15	---	---
405+10	-	417+10	STH 13 SB	115	---	172	---	---
417+10	-	429+10	STH 13 SB	33	---	64	---	---
429+10	-	441+10	STH 13 SB	19	---	110	---	32
STAGE 3								
274+00	-	285+20	STH 13 NB	---	154	---	---	---
285+20	-	297+20	STH 13 NB	---	29	---	---	---
297+20	-	309+20	STH 13 NB	---	30	---	17	---
309+20	-	321+20	STH 13 NB	---	15	---	15	---
321+20	-	333+20	STH 13 NB	---	24	---	---	---
333+20	-	345+20	STH 13 NB	---	---	16	10	---
345+20	-	357+20	STH 13 NB	---	---	133	---	---
357+20	-	369+20	STH 13 NB	---	---	181	---	---
369+20	-	381+10	STH 13 NB	---	---	42	---	---
381+10	-	393+10	STH 13 NB	---	---	38	---	---
393+10	-	405+10	STH 13 NB	---	---	103	---	---
405+10	-	417+10	STH 13 NB	12	---	49	---	---
417+10	-	429+10	STH 13 NB	15	---	98	---	---
429+10	-	441+10	STH 13 NB	25	---	250	---	---
UNDISTRIBUTED				22	50	151	63	---
PROJECT TOTAL				420	450	1680	210	32

ADJUSTING MANHOLES COVERS

STATION	DIR	LOCATION	611.8110 ADJUSTING MANHOLES COVERS EACH
CATEGORY 0010			
281+00	LT	STH 13	1
311+62	LT	STH 13	1
337+68	RT	STH 13	1
338+17	LT	STH 13	1
342+52	LT	STH 13	1
346+52	LT	STH 13	1
350+50	LT	STH 13	1
354+50	LT	STH 13	1
358+27	LT	STH 13	1
361+50	LT	STH 13	1
364+47	LT	STH 13	1
365+56	LT	STH 13	1
367+00	LT	STH 13	1
370+00	LT	STH 13	1
373+00	LT	STH 13	1
378+86	RT	STH 13	1
381+53	RT	STH 13	1
385+50	RT	STH 13	1
390+02	RT	STH 13	1
394+00	LT	STH 13	1
393+99	RT	STH 13	1
394+97	RT	STH 13	1
397+97	RT	STH 13	1
402+00	RT	STH 13	1
405+96	RT	STH 13	1
410+00	RT	STH 13	1
412+00	RT	STH 13	1
432+48	RT	STH 13	1
439+02	RT	STH 13	1

PROJECT TOTAL 29

DRAIN SLOTTED VAIN

STATION	TO	STATION	DIR	LOCATION	204.9090.S.01 REMOVING DRAIN SLOTTED VANE LF	611.9900.S DRAIN SLOTTED VANE EACH
CATEGORY 0010						
393+91	-	393+97	LT	STH 13	9	1
394+04	-	394+10	LT	STH 13	9	1

PROJECT TOTAL 18 2

NOTE: DRAIN SLOTTED VAN LENGTH = 9 LF EACH, MEASURED FROM CENTER OF MH TO END CAP OF PVC PIPE

INLET COVERS

STATION	DIR	LOCATION	611.0624 INLET COVERS TYPE H EA	611.0666 INLET COVERS TYPE Z EACH	611.0642 INLET COVERS TYPE MS EACH	611.8115 ADJUSTING INLET COVERS EACH
CATEGORY 0010						
281+00	LT	STH 13	1	---	---	---
292+00	RT	STH 13	---	---	---	1
296+70	LT	STH 13	---	---	---	1
321+00	RT	STH 13	1	---	---	---
324+53	LT	STH 13	---	---	---	1
328+90	RT	STH 13	---	---	---	1
328+92	LT	STH 13	---	---	---	1
329+02	LT	STH 13	---	---	---	1
346+50	RT	STH 13	---	---	---	1
346+50	LT	STH 13	---	---	---	1
350+50	RT	STH 13	---	---	---	1
350+50	LT	STH 13	---	---	---	1
354+50	RT	STH 13	---	---	---	1
354+50	LT	STH 13	---	---	---	1
358+35	MEDIAN	STH 13	---	---	1	---
358+35	RT	STH 13	---	---	---	1
361+50	RT	STH 13	---	---	---	1
364+50	LT	STH 13	---	---	---	1
367+00	LT	STH 13	---	---	---	1
370+00	RT	STH 13	---	---	---	1
370+00	LT	STH 13	---	---	---	1
381+50	RT	STH 13	---	---	---	1
385+40	LT	STH 13	---	---	---	1
385+50	LT	STH 13	---	---	---	1
394+00	RT	STH 13	---	---	---	1
397+96	LT	STH 13	---	1	---	---
406+00	LT	STH 13	---	---	---	1
406+00	RT	STH 13	---	---	---	1
410+00	LT	STH 13	---	---	---	1
410+00	RT	STH 13	---	---	---	1
416+50	RT	STH 13	---	---	---	1
461+50	LT	STH 13	---	---	---	1
420+00	LT	STH 13	---	---	---	1
420+10	LT	STH 13	---	---	---	1
427+00	LT	STH 13	---	---	---	1
427+05	RT	STH 13	---	---	---	1
432+50	LT	STH 13	---	---	---	1
440+10	LT	STH 13	---	---	---	1

PROJECT TOTAL 2 1 1 34

BARRIER SYSTEM GRADING SHAPING FINISHING

STATION TO STATION			DIR	LOCATION	614.0010 BARRIER SYSYEM GRADING SHAPING FINISHING EACH	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	ITEMS & QUANTITIES LISTED FOR BID INFORMATION ONLY			
							EXCAVATION COMMON CY	SALVAGED TOPSOIL SY	FERTILIZER TYPE B CWT	SEEDING MIX NO. 30 LB
CATEGORY 0010										
351+78	-	352+50	RT	STH 13	1	100	13	100	0.06	2
356+75	-	357+50	LT	STH 13	1	50	6	50	0.03	1
362+49	-	363+23	RT	STH 13	1	50	6	50	0.03	1
362+30	-	363+32	LT	STH 13	1	50	11	50	0.03	1
PROJECT TOTALS					4	250	36	250	0.15	5

GUARDRAIL

STATION	TO	STATION	DIR	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
CATEGORY 0010						
356+94	-	362+76	LT	STH 13	475	2
352+00	-	363+02	RT	STH 13	1000	2
TOTALS					1475	4

MAINTENANCE & REPAIR OF HAUL ROADS 6140-00-82

PROJECT	LOCATION	618.0100 MAINTENANCE & REPAIR OF HAUL ROADS EACH
CATEGORY 0010		
6140-00-82	STH 13	1
PROJECT TOTALS		1

SILT FENCE

STATION TO STATION			LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	REMARKS
CATEGORY 0010						
351+75	-	356+12	STH 13 RT	450	450	
356+12	-	360+75	STH 13 RT	---	500	* INSTALLATION OF SILT FENCE DONE BY OTHERS
356+75	-	360+75	STH 13 LT	---	470	* INSTALLATION OF SILT FENCE DONE BY OTHERS
360+75	-	363+50	STH 13 RT	300	300	
360+75	-	363+50	STH 13 LT	300	300	
414+55	-	414+75	STH 13 RT	20	20	
415+15	-	415+35	STH 13 LT	20	20	
415+60	-	415+80	STH 13 LT	20	20	
416+35	-	416+65	STH 13 RT	30	30	
416+60	-	416+80	STH 13 LT	20	20	
418+65	-	416+85	STH 13 RT	20	20	
419+80	-	420+00	STH 13 RT	20	20	
419+80	-	420+50	STH 13 LT	70	70	
UNDISTRIBUTED				100	100	
PROJECT TOTALS				1,370	2,340	

MOBILIZATION EROSION CONTROL

				628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION EACH
STATION TO STATION			LOCATION		
CATEGORY 0010					
274+00	-	441+30	STH 13	2	4
PROJECT TOTALS				2	4

INLET PROTECTION

STATION	DIR	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH	REMARKS
CATEGORY 0010					
275+00	LT	---	1	---	
275+42	RT	---	1	---	
276+90	LT	---	1	---	
277+25	LT	---	1	---	
281+00	RT<	---	---	2	LOW POINT
281+25	LT	---	---	1	LOW POINT
288+50	RT<	---	2	---	
291+90	RT<	---	---	2	LOW POINT
292+00	RT<	---	---	2	LOW POINT
296+70	RT<	---	1	---	
297+90	RT	---	---	1	LOW POINT
298+00	RT<	---	---	2	LOW POINT
301+50	RT<	---	2	---	
309+40	RT<	---	2	---	
309+50	RT<	---	2	---	
311+31	RT<	---	2	---	
311+66	RT<	---	2	---	
317+40	RT<	---	---	2	LOW POINT
317+50	RT<	---	---	2	LOW POINT
321+00	RT<	---	2	---	
324+55	LT	---	1	---	
324+90	LT	---	1	---	
328+90	RT<	---	---	2	LOW POINT
329+00	RT<	---	---	2	LOW POINT
333+00	RT<	---	2	---	
337+85	RT<	---	2	---	
338+25	RT<	---	2	---	
342+55	RT<	---	2	---	
346+50	RT<	---	2	---	
350+50	RT<	---	2	---	
354+50	RT<	---	2	---	
358+25	RT<	---	---	2	LOW POINT
358+35	RT<	---	---	2	LOW POINT
358+45	RT<	---	---	2	LOW POINT
361+50	RT<	1	2	---	MEDIAN DRAIN
364+50	RT<	---	2	---	
367+00	RT<	---	2	---	
370+00	RT<	---	2	---	
373+00	RT<	---	2	---	
378+45	RT	---	1	---	
378+80	RT	---	1	---	
SUBTOTAL		1	47	24	

INLET PROTECTION CONTINUED

STATION	DIR	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH	REMARKS
CATEGORY 0010					
381+50	RT<	---	2	---	
385+40	RT<	---	---	2	LOW POINT
385+50	RT<	---	---	2	LOW POINT
393+00	LT	---	1	---	
394+00	RT<	---	2	---	
394+50	RT	---	2	---	
395+00	RT	---	1	---	
398+00	RT<	---	3	---	
402+00	RT<	---	2	---	
406+00	RT<	---	2	---	
410+00	RT<	---	2	---	
413+25	RT<	---	2	---	
416+50	RT<	---	2	---	
419+95	RT<	---	---	2	LOW POINT
420+05	RT<	---	---	2	LOW POINT
423+00	RT<	---	2	---	
427+00	RT<	---	2	---	
429+85	RT	---	1	---	
432+50	RT<	---	2	---	
439+00	RT	---	2	---	
439+50	RT	---	1	---	
440+00	RT<	---	---	2	LOW POINT
440+10	RT<	---	---	2	LOW POINT
SUBTOTAL		0	31	12	
PROJECT TOTAL		1	78	36	

PERMANENT SIGNS TYPE II AND SIGN SUPPORTS

										634.0614		634.0616	637.2210	637.2230	
										POSTS WOOD		SIGNS	SIGNS		
										4 X 6-INCH		TYPE II	TYPE II		
SIGN			FACE	SIGN	SIGN		SIGN	ASSEMBLY		14 FT	16 FT	REFLECTIVE H	REFLECTIVE F		
NO.	STATION	REFERENCE LINE	DIR.	CODE	SIZE	DESCRIPTION	W X H	NO.	WIDTH	HEIGHT	EACH	EACH	SF	SF	REMARKS
							IN X IN		IN	IN					
CATEGORY 0010															
101	310+00 LT	STH 13	SB	R2-1	3	SPEED LIMIT	36 X 48				---	1	12.00	---	SPEED LIMIT = 45
102	307+90 RT	STH 13	NB	R2-1	3	SPEED LIMIT	36 X 48				---	1	12.00	---	SPEED LIMIT = 45
103	308+00 LT	STH 13	SB	R3-9B	3	CENTER LANE LEFT TURN	36 X 48				---	1	12.00	---	
104	311+25 LT	STH 13	EB	R1-1	3	STOP SIGN	36 X 36				---	1	7.46	---	CHURCH AVE
105	311+70 RT	STH 13	WB	R1-1	3	STOP SIGN	36 X 36				---	1	7.46	---	CHURCH AVE
106	313+70 RT	STH 13	NB	R3-9B	3	CENTER LANE LEFT TURN	36 X 48				---	1	12.00	---	
109	324+50 LT	STH 13	EB	R1-1	3	STOP SIGN	36 X 36				---	1	7.46	---	BELLVIEW DR
110	326+00 RT	STH 13	NB	R3-9B	3	CENTER LANE LEFT TURN	36 X 48				---	1	12.00	---	
201	331+20 LT	STH 13	SB	R3-9B	3	CENTER LANE LEFT TURN	36 X 48				---	1	12.00	---	
202	335+40 LT	STH 13	SB	R2-1	3	SPEED LIMIT	36 X 48				---	1	12.00	---	
203	333+00 RT	STH 13	NB	R2-1	3	SPEED LIMIT	36 X 48				---	1	12.00	---	
204	337+75 LT	STH 13	EB	R1-1	3	STOP SIGN	36 X 36				---	1	7.46	---	RANGER RD
205	338+15 RT	STH 13	WB	R1-1	3	STOP SIGN	36 X 36				---	1	7.46	---	RANGER RD
206	338+70 RT	STH 13	NB	R5-99	3	OFF ROAD OPERATION	42 X 24				1	---	7.00	---	
208	342+65 RT	STH 13	NB	R3-9B	3	CENTER LANE LEFT TURN	36 X 48				---	1	12.00	---	
211	356+50 RT	STH 13	SB	R3-9B	3	CENTER LANE LEFT TURN	36 X 48				---	1	12.00	---	
301	356+85 RT	STH 13	NB	R2-1	3	SPEED LIMIT	36 X 48				---	1	12.00	---	NOTE 1
302	358+20 RT	STH 13	NB	I3-1	3	INFORMATIONAL SIGN	54 X 24				1	1	9.00	---	FIVE MILE CREEK, NOTE 1
303	358+80 LT	STH 13	SB	I3-1	3	INFORMATIONAL SIGN	54 X 24				1	1	9.00	---	FIVE MILE CREEK, NOTE 1
304	362+30 LT	STH 13	SB	R2-1	3	SPEED LIMIT	36 X 48				---	1	12.00	---	NOTE 1
305	365+20 LT	STH 13	EB	R1-1	3	STOP SIGN	36 X 36				---	1	7.46	---	LARRY AVE
306	367+00 RT	STH 13	NB	R3-9B	3	CENTER LANE LEFT TURN	36 X 48				---	1	12.00	---	
308	373+00 LT	STH 13	SB	R3-9B	3	CENTER LANE LEFT TURN	36 X 48				---	1	12.00	---	
309	382+00 LT	STH 13	SB	R2-1	3	SPEED LIMIT	36 X 48				---	1	12.00	---	
310	378+85 RT	STH 13	WB	R1-1	3	STOP SIGN	36 X 36				---	1	7.46	---	KESTER RD
311	381+20 RT	STH 13	NB	R3-9B	3	CENTER LANE LEFT TURN	36 X 48				---	1	12.00	---	
312	383+25 RT	STH 13	NB	R2-1	3	SPEED LIMIT	36 X 48				---	1	12.00	---	

PAGE SUBTOTALS 3 26 281.22 0.00

NOTE 1: PROVIDE WORKING WIDTH OF 5.5' FROM FACE OF RAIL TO EDGE OF SIGN

PERMANENT SIGNS TYPE II AND SIGN SUPPORTS CONTINUED

								634.0614			634.0616		637.2210		637.2230		
								POSTS WOOD			SIGN		SIGN				
								4 X 6-INCH			TYPE II		TYPE II				
SIGN			FACE	SIGN	SIGN		SIGN	ASSEMBLY			14 FT	16 FT	REFLECTIVE H	REFLECTIVE F			
NO.	STATION	REFERENCE LINE	DIR.	CODE	SIZE	DESCRIPTION	W X H	NO.	WIDTH	HEIGHT	EACH	EACH	SF	SF	REMARKS		
							IN X IN		IN	IN							
403	393+30 LT	STH 13	SB	R3-9B	3	CENTER LANE LEFT TURN	36 X 48				---	1	12.00	---			
404	394+75 LT	STH 13	EB	R1-1	3	STOP SIGN	36 X 36				---	1	7.46	---	SOUTHSIDE DR		
405	395+10 RT	STH 13	WB	R1-1	3	STOP SIGN	36 X 36				---	1	7.46	---	TOWNLINE RD		
406	395+25 RT	STH 13	NB	R4-7	2M	KEEP RIGHT	24 X 30				---	1	5.00	---			
407	395+60 RT	STH 13	NB	R5-99	2M	OFF ROAD OPERATION	42 X 24				1	---	7.00	---			
410	409+50 RT	STH 13	NB	R2-1	3	SPEED LIMIT	36 X 48				---	1	12.00	---			
411	406+80 LT	STH 13	SB	R5-99	2M	OFF ROAD OPERATION	42 X 24				1	---	7.00	---			
412	407+80 LT	STH 13	SB	R2-1	3	SPEED LIMIT	36 X 48				---	1	12.00	---			
413	409+10 RT	STH 13	NB	R4-7	2M	KEEP RIGHT	36 X 48				---	1	12.00	---			
414	411+20 RT	STH 13	NB	R5-99	2M	OFF ROAD OPERATION	42 X 24				1	---	7.00	---			
415	413+20 RT	STH 13	NB	I3-1		INFORMATIONAL SIGN	36 X 24				1	---	6.00	---	NEPCO LAKE		
416	414+50 LT	STH 13	SB	I3-1		INFORMATIONAL SIGN	36 X 24				1	---	6.00	---	NEPCO LAKE		
418	408+30 LT	STH 13	SB	W5-54S	2M	IN ROAD OBJECT MARKER	18 X 18				1	---	---	2.25			
501	426+10 LT	STH 13	SB	W5-54S	2M	IN ROAD OBJECT MARKER	18 X 18				1	---	---	2.25			
502	426+95 RT	STH 13	NB	R4-7	3	KEEP RIGHT	36 X 48				---	1	12.00	---			
503	431+85 RT	STH 13	NB	R5-99	2M	OFF ROAD OPERATION	42 X 24				1	---	7.00	---			
504	432+90 LT	STH 13	SB	R4-7	2M	KEEP RIGHT	24 X 30				---	1	5.00	---			
505	433+10 LT	STH 13	EB	R1-1	3	STOP SIGN	36 X 36				---	1	7.46	---	NEPCO LAKE RD		
506	435+80 LT	STH 13	SB	R2-1	3	SPEED LIMIT	36 X 48				---	1	12.00	---			
507	435+70 RT	STH 13	NB	R2-1	3	SPEED LIMIT	30 X 36				---	1	7.50	---			
508	439+50 RT	STH 13	WB	R1-1	3	STOP SIGN	36 X 36				---	1	7.46	---	LAKWOOD LN		
509	439+60 RT	STH 13	NB	R4-7	2M	KEEP RIGHT	24 X 30				---	1	5.00	---			
PAGE SUBTOTALS											8	14	164.34	4.50			
PROJECT TOTALS											11	40	445.56	4.50			

REMOVING SIGNS TYPE II AND REMOVING SMALL SIGN SUPPORTS

SIGN NO.	STATION	LOCATION	DESCRIPTION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
CATEGORY 0010						
R101	302+10 LT	STH 13	SPEED LIMIT	1	1	
R102	307+90 RT	STH 13	SPEED LIMIT	1	1	
R103	308+00 LT	STH 13	CENTER LANE LEFT TURN	1	1	
R104	311+25 LT	STH 13	STOP SIGN	1	1	CHURCH AVE
R105	311+70 RT	STH 13	STOP SIGN	1	1	CHURCH AVE
R106	313+70 RT	STH 13	CENTER LANE LEFT TURN	1	1	
R107	321+45 LT	STH 13	SPEED LIMIT	1	1	
R108	321+80 RT	STH 13	SPEED LIMIT	1	1	
R109	324+50 LT	STH 13	STOP SIGN	1	1	BELLVIEW DR
R110	326+00 RT	STH 13	CENTER LANE LEFT TURN	1	1	
R201	331+20 LT	STH 13	CENTER LANE LEFT TURN	1	1	
R202	334+90 LT	STH 13	SPEED LIMIT	1	1	
			SOUTH 13	--	--	
R203	337+75 LT	STH 13	STOP SIGN	1	1	RANGER ROAD
R204	338+15 RT	STH 13	STOP SIGN	1	1	RANGER ROAD
R205	338+70 RT	STH 13	OFF ROAD OPERATION	1	1	
R206	339+30 RT	STH 13	NORTH 13	1	1	
R207	340+40 RT	STH 13	CENTER LANE LEFT TURN	1	1	
R208	341+70 RT	STH 13	SPEED LIMIT	1	1	
R209	347+00 LT	STH 13	SPEED LIMIT	1	1	
R210	356+50 RT	STH 13	CENTER LANE LEFT TURN	1	1	
R301	356+85 RT	STH 13	SPEED LIMIT	1	1	
			FIVE MILE CREEK	--	--	
R302	358+80 LT	STH 13	FIVE MILE CREEK	1	1	
R303	362+30 LT	STH 13	SPEED LIMIT	1	1	
R304	365+20 LT	STH 13	STOP SIGN	1	1	LARRY AVE
R305	367+00 RT	STH 13	CENTER LANE LEFT TURN	1	1	
R306	371+45 RT	STH 13	SPEED LIMIT	1	1	
R307	373+00 LT	STH 13	CENTER LANE LEFT TURN	1	1	
R308	376+30 LT	STH 13	SPEED LIMIT	1	1	
R309	378+85 RT	STH 13	STOP SIGN	1	1	KESTER ROAD
R310	381+20 RT	STH 13	CENTER LANE LEFT TURN	1	1	
R311	383+70 RT	STH 13	SPEED LIMIT	1	1	

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REMOVING SIGNS TYPE II AND REMOVING SMALL SIGN SUPPORTS CONTINUED

SIGN NO.	STATION	LOCATION	DESCRIPTION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
R401	390+20 LT	STH 13	SOUTH 13	1	1	
		STH 13	SPEED LIMIT	--	--	
R402	393+30 LT	STH 13	CENTER LANE LEFT TURN	1	1	
R403	394+75 LT	STH 13	STOP SIGN	1	1	SOUTHSIDE DR
R404	395+10 RT	STH 13	STOP SIGN	1	1	TOWNLINE RD
R405	395+25 RT	STH 13	KEEP RIGHT	1	1	
R406	395+60 RT	STH 13	OFF ROAD OPERATION	1	1	
R407	398+00 RT	STH 13	ROAD TO NEPCO LAKE COUNTY PARK	1	1	
R408	399+70 RT	STH 13	NORTH 13	1	1	
		STH 13	SPEED LIMIT	--	--	
R409	406+80 LT	STH 13	OFF ROAD OPERATION	1	1	
R410	407+80 LT	STH 13	SPEED LIMIT	1	1	
R411	408+30 LT	STH 13	IN ROAD OBJECT MARKER	1	1	
R412	409+10 RT	STH 13	KEEP RIGHT	1	1	
R413	411+20 RT	STH 13	OFF ROAD OPERATION	1	1	
R414	415+20 RT	STH 13	SPEED LIMIT	1	1	
R501	426+10 LT	STH 13	IN ROAD OBJECT MARKER	1	1	
			IN ROAD OBJECT MARKER	--	--	
R502	426+95 RT	STH 13	KEEP RIGHT	1	1	
			IN ROAD OBJECT MARKER	--	--	
R503	431+85 RT	STH 13	OFF ROAD OPERATION	1	1	
R504	432+90 LT	STH 13	KEEP RIGHT	1	1	
R505	433+10 LT	STH 13	STOP SIGN	1	1	NEPCO LAKE RD
R506	435+80 LT	STH 13	SPEED LIMIT	1	1	
R507	435+70 RT	STH 13	SPEED LIMIT	1	1	
R508	439+50 RT	STH 13	STOP SIGN	1	1	LAKESIDE RD
R509	439+60 RT	STH 13	KEEP RIGHT	1	1	

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TOTALS 54 54

PAVEMENT MARKING

STATION TO STATION			ROADWAY	646.1020		646.1545	646.5020	646.5120	646.6120
				MARKING LINE EPOXY 4-INCH (YELLOW) LF	MARKING LINE EPOXY 4-INCH (WHITE) LF	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE) LF	MARKING ARROW EPOXY (TYPE 2) EACH	MARKING WORD EPOXY (ONLY) EACH	MARKING STOP LINE EPOXY 18-INCH (WHITE) LF
CATEGORY 0010									
274+00	-	285+00	STH 13	2030	2132	550	3	2	56
285+00	-	311+00	STH 13	5200	5200	1300	13	3	38
311+00	-	325+00	STH 13	2470	2600	700	6	2	---
325+00	-	337+56	STH 13	2512	2512	628	7	1	---
337+56	-	365+00	STH 13	5314	5341	1372	15	1	---
365+00	-	378+50	STH 13	2542	2639	675	8	---	---
378+50	-	395+00	STH 13	2966	3061	825	10	---	15
395+00	-	426+50	STH 13	6164	6300	1575	3	1	---
426+50	-	433+50	STH 13	1058	1339	350	2	---	---
433+50	-	439+56	STH 13	1082	1150	303	4	---	---
TOTALS				63,612		8,278	71	10	109

COVERING SIGNS

LOCATION	STAGE	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II		
		EACH	NUMBER OF CYCLES	NUMBER OF SIGNS
CATEGORY 0010				
STH 13	2	22	1	22
PROJECT TOTAL		22		

MARKING REMOVAL

				646.9300 MARKING REMOVAL SPECIAL MARKING (MEDIAN ARROWS) EACH
STATION	TO	STATION	LOCATION	
CATEGORY 0010				
277+50	-	284+50	STH 13	---
285+37	-	311+03	STH 13	6
311+93	-	324+20	STH 13	4
325+00	-	337+50	STH 13	6
338+40	-	364+96	STH 13	4
365+69	-	378+30	STH 13	6
379+05	-	394+45	STH 13	6
395+25	-	408+35	STH 13	---
409+00	-	413+20	STH 13	---
414+57	-	426+12	STH 13	---
426+90	-	433+00	STH 13	---
433+82	-	438+92	STH 13	4
PROJECT TOTAL				36

PAVEMENT MARKING

STATION TO STATION			ROADWAY	646.3545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE) LF
CATEGORY 0010				
275+40	-	276+60	STH 13	120
282+72	-	284+22	STH 13	150
285+35	-	288+35	STH 13	380
285+40	-	287+40	STH 13	200
309+20	-	311+05	STH 13	185
311+95	-	313+90	STH 13	195
323+00	-	324+25	STH 13	125
336+05	-	337+55	STH 13	150
338+45	-	339+90	STH 13	145
363+15	-	364+95	STH 13	180
379+05	-	380+60	STH 13	155
395+25	-	396+80	STH 13	155
424+30	-	426+15	STH 13	185
431+75	-	433+00	STH 13	125
TOTAL				2,450

PAVEMENT MARKING

STATION	ROADWAY	646.8120	646.8220
		MARKING CURB EPOXY	MARKING ISLAND NOSE EPOXY
		LF	EACH
CATEGORY 0010			
276+55	STH 13	10	1
277+50	STH 13	10	1
280+30	STH 13	10	1
281+80	STH 13	10	1
284+35	STH 13	10	1
285+35	STH 13	10	1
287+90	STH 13	10	1
395+25	STH 13	25	--
408+35	STH 13	35	--
409+00	STH 13	35	--
426+10	STH 13	25	--
426+90	STH 13	40	--
432+95	STH 13	10	1
TOTALS		240	8

TEMPORARY PAVEMENT MARKING

STAGE	LOCATION	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW) LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE) (YELLOW) LF LF		649.0250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE) LF
CATEGORY 0010					
1	STH 13 NORTHBOUND	---	---	--	---
1	STH 13 SOUTHBOUND	---	156	156	330
2	STH 13 NORTHBOUND	---	462	462	---
2	STH 13 SOUTHBOUND	18690	123	8,293	---
3	STH 13 NORTHBOUND	---	---	27,390	---
3	STH 13 SOUTHBOUND	---	585	585	---
4	STH 13 NORTHBOUND	---	---	--	---
4	STH 13 SOUTHBOUND	---	156	156	---
SUBTOTALS		18,690	1,482	37,042	330
TOTALS		18,690	38,524		330

TRAFFIC CONTROL

		APPROX. SERVICE PERIOD	643.0300		643.0420		643.0705		643.0715		643.0800		643.0900		643.1000		643.1070		643.0500		643.0600	
			DRUMS		BARRICADES TYPE III		WARNING LIGHTS TYPE A		WARNING LIGHTS TYPE C		ARROW BOARDS		SIGNS		SIGNS FIXED MESSAGE		TRAFFIC CONTROL CONES 42- INCH		FLEXIBLE TUBULAR MARKER POSTS		FLEXIBLE TUBULAR MARKER BASES	
STAGE	LOCATION	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	SF		NO.	DAYS	EACH		EACH	
CATEGORY 0010																						
1	OVERVIEW	14	0	0	0	0	0	0	0	0	0	0	37	518	64		--	--	--		--	
	STH 13 SB - WORK ZONE LARRY AVE	14	46	644	2	28	4	56	12	168	1	14	6	84	--		14	196	--		--	
	STH 13 - WORK ZONE LAKEWOOD LANE	14	156	2,184	10	140	20	280	19	266	1	14	19	266	--		50	700	--		--	
	TEMPORARY INSIDE LANE CLOSURES FOR MEDIAN PREP	3	583	1,749	20	60	--	--	--	--	2	6	20	60	--		--	--	--		--	
2	OVERVIEW	40	0	0	0	0	0	0	--	--	--	--	28	1,120	--		--	--	--		--	
	CHURCH EAST	14	0	0	5	70	10	140	--	--	--	--	3	42	--		--	--	--		--	
	STH 13	40	511	20,440	32	1,280	64	2,560	34	1,360	--	--	101	4,040	--		87	3,480	281		281	
3	OVERVIEW	40	0	0	0	0	0	0	--	--	--	--	28	1,120	--		--	--	--		--	
	CHURCH WEST	14	0	0	5	70	10	140	--	--	--	--	3	42	--		--	--	--		--	
	STH 13	40	462	18,480	33	1,320	66	2,640	26	1,040	--	--	101	4,040	--		166	6,640	281		281	
4	OVERVIEW	14	0	0	0	0	0	0	--	--	--	--	28	392	--		--	--	--		--	
	STH 13	14	714	9,996	41	574	82	1,148	7	98	--	--	59	826	--		6	84	--		--	
ALL	WIDTH WARNING SIGNS	108	0	0	0	0	0	0	0	0	0	0	35	3,780	--		--	--	--		--	
PROJECT SUBTOTALS			53,493		3,542		6,964		2,932		34		16,330		64		11,100		562		562	
UNDISTRIBUTED			5,349		354		696		293		3		1,633		0		1,110		84		84	
TOTALS			58,842		3,896		7,660		3,225		37		17,963		64		12,210		646		646	

TRAFFIC CONTROL

PROJECT	643.5000
	EA
CATEGORY 0010	
6140-00-82	1
PROJECT TOTAL	1

CONSTRUCTION STAKING STORM SEWER

			650.4000 CONSTRUCTION STAKING STORM SEWER EACH	NOTE:
STATION	DIR	LOCATION		
CATEGORY 0010				
393+95	RT	STH 13 SB	1	STAKING IS FOR VANE DRAIN
394+05	RT	STH 13 SB	1	STAKING IS FOR VANE DRAIN
PROJECT TOTALS			2	

CONSTRUCTION STAKING CURB & GUTTER

				650.5500 CONSTRUCTION STAKING CURB & GUTTER LF
STATION TO STATION		DIR	LOCATION	
CATEGORY 0010				
281+99	-	283+41	RT	STH 13 NB 142
358+50	-	359+00	RT	STH 13 NB 50
362+68	-	363+32	LT	STH 13 SB 64
394+30	-	394+56	RT	STH 13 NB 50
396+50	-	398+15	LT	STH 13 SB 165
406+50	-	407+55	RT	STH 13 SB 105
406+50	-	407+55	LT	STH 13 SB 105
438+77	-	439+07	RT	STH 13 NB 30
439+39	-	439+42	RT	STH 13 NB 15
UNDISTRIBUTED			STH 13	74
PROJECT TOTALS				800

CONSTRUCTION STAKING SUBGRADE

		650.4500 CONSTRUCTION STAKING SUBGRADE LF
STATION TO STATION		LOCATION
CATEGORY 0010		
406+50	-	407+55 STH 13 SB 105
PROJECT TOTALS		105

CONSTRUCTION STAKING BASE

			650.5000 CONSTRUCTION STAKING BASE LF
STATION TO STATION		DIR	LOCATION
CATEGORY 0010			
337+56	-	439+55	NB STH 13 10,062
337+56	-	439+55	SB STH 13 10,062
PROJECT TOTALS			20,124

CONSTRUCTION STAKING
SUPPLEMENTAL CONTROL

PROJECT	650.9910
	EA
CATEGORY 0010	
6140-00-82	1
PRJECT TOTAL	1

SAW CUTTING

STATION	TO	STATION	DIR	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
CATEGORY 0010						
STAGE 1						
345+20	-	357+20	LT	STH 13 SB	---	50
357+20	-	369+20	LT	STH 13 SB	---	80
417+10	-	429+10	R/L	STH 13	600	780
STAGE 2						
274+00	-	285+20	R/L	STH 13 SB	---	700
285+20		297+20	R/L	STH 13 SB	30	70
297+20	-	309+20	R/L	STH 13 SB	10	260
309+20	-	321+20	R/L	STH 13 SB	50	320
321+20	-	333+20	R/L	STH 13 SB	10	570
333+20	-	345+20	R/L	STH 13 SB	690	1070
345+20	-	357+20	R/L	STH 13 SB	1230	1400
357+20	-	369+20	R/L	STH 13 SB	1110	1320
369+20	-	381+10	R/L	STH 13 SB	1130	1200
381+10	-	393+10	R/L	STH 13 SB	1200	1260
393+10	-	405+10	R/L	STH 13 SB	310	2380
405+10	-	417+10	R/L	STH 13 SB	180	2310
417+10	-	429+10	R/L	STH 13 SB	10	2440
429+10	-	441+10	R/L	STH 13 SB	250	1640
STAGE 3						
274+00	-	285+20	R/L	STH 13 NB	---	1190
285+20		297+20	R/L	STH 13 NB	---	180
297+20	-	309+20	R/L	STH 13 NB	20	590
309+20	-	321+20	R/L	STH 13 NB	30	480
321+20	-	333+20	R/L	STH 13 NB	---	250
333+20	-	345+20	R/L	STH 13 NB	960	930
345+20	-	357+20	R/L	STH 13 NB	1230	1440
357+20	-	369+20	R/L	STH 13 NB	1110	1440
369+20	-	381+10	R/L	STH 13 NB	1130	1260
381+10	-	393+10	R/L	STH 13 NB	1200	1400
393+10	-	405+10	R/L	STH 13 NB	130	2510
405+10	-	417+10	R/L	STH 13 NB	40	2190
417+10	-	429+10	R/L	STH 13 NB	10	2590
429+10	-	441+10	R/L	STH 13 NB	250	2140
UNDISTRIBUTED				STH 13	120	120
PROJECT TOTALS					13,040	36,560

RESTORATION FOR CURB REPLACEMENT

STATION	TO	STATION	LOCATION	SPV.0090.03	QUANTITIES LISTED FOR BID INFORMATION ONLY				
				RESTORATION FOR CURB REPLACEMENT	BACKFILL	SALVAGED TOPSOIL	EROSION MAT URBAN CLASS I	FERTILIZER TYPE B	SEDDING NO. 30 OR 40 **
				LF	CY	SY	SY	CWT	LBS
CATEGORY 0010									
STAGE 2									
270+00	-	285+20	STH 13 SB	---	---	---	---	---	---
285+20	-	297+20	STH 13 SB	---	---	---	---	---	---
297+20	-	309+20	STH 13 SB	9	1	1	1	0.001	0.02
309+20	-	321+20	STH 13 SB	35	1	4	4	0.002	0.07
321+20	-	333+20	STH 13 SB	113	3	13	13	0.008	0.23
333+20	-	345+20	STH 13 SB	18	1	2	2	0.001	0.04
345+20	-	357+20	STH 13 SB	147	4	16	16	0.010	0.29
357+20	-	369+20	STH 13 SB	139	4	15	15	0.010	0.28
369+20	-	381+10	STH 13 SB	---	---	---	---	---	---
381+10	-	393+10	STH 13 SB	22	1	2	2	0.002	0.04
393+10	-	405+10	STH 13 SB	32	1	4	4	0.002	0.06
405+10	-	417+10	STH 13 SB	117	3	13	13	0.008	0.23
417+10	-	429+10	STH 13 SB	64	2	7	7	0.004	0.13
429+10	-	441+10	STH 13 SB	141	4	16	16	0.010	0.28
STAGE 3									
274+00	-	285+20	STH 13 NB	154	4	17	17	0.011	0.31
285+20	-	297+20	STH 13 NB	37	1	4	4	0.003	0.07
297+20	-	309+20	STH 13 NB	17	1	2	2	0.001	0.03
309+20	-	321+20	STH 13 NB	30	1	3	3	0.002	0.06
321+20	-	333+20	STH 13 NB	6	1	1	1	0.000	0.01
333+20	-	345+20	STH 13 NB	16	1	2	2	0.001	0.03
345+20	-	357+20	STH 13 NB	178	5	20	20	0.012	0.36
357+20	-	369+20	STH 13 NB	154	4	17	17	0.011	0.31
369+20	-	381+10	STH 13 NB	24	1	3	3	0.002	0.05
381+10	-	393+10	STH 13 NB	23	1	3	3	0.002	0.05
393+10	-	405+10	STH 13 NB	86	2	10	10	0.006	0.17
405+10	-	417+10	STH 13 NB	42	1	5	5	0.003	0.08
417+10	-	429+10	STH 13 NB	82	2	9	9	0.006	0.16
429+10	-	441+10	STH 13 NB	263	7	29	29	0.018	0.53
UNDISTRIBUTED				133	4	15	15	0.009	0.27
PROJECT TOTAL				1245	37	138	138	0.087	2.49

** NO. 40 SEED IN LAWN AREAS AND NO. 30 SEED EVERYWHERE ELSE

PREPARE EXISTING MEDIAN PAVEMENT FOR SEAL
COAT SPECIAL

				SPV.0125.01 PREPARE EXISTING MEDIAN PAVEMENT FOR SEAL COAT SPECIAL
STATION	TO	STATION	LOCATION	MILE
CATEGORY 0010				
277+50	-	284+50	STH 13	0.1
285+37	-	311+03	STH 13	0.5
311+93	-	324+20	STH 13	0.2
325+00	-	337+50	STH 13	0.2
340+60	-	362+50	STH 13	0.4
365+69	-	378+30	STH 13	0.2
381+40	-	394+45	STH 13	0.2
395+25	-	408+35	STH 13	0.2
409+00	-	413+20	STH 13	0.1
414+57	-	426+12	STH 13	0.2
426+90	-	433+00	STH 13	0.1
433+82		438+92	STH 13	0.1
PROJECT TOTALS				2.7

SEAL COAT

				SPV.0180.01 SEAL COAT SPECIAL
STATION	TO	STATION	LOCATION	SY
CATEGORY 0010				
277+50	-	284+50	STH 13	6170
285+37	-	311+03	STH 13	3900
311+93	-	324+20	STH 13	1610
325+00	-	337+50	STH 13	1970
338+40	-	364+96	STH 13	4100
365+69	-	378+30	STH 13	2250
379+05	-	394+45	STH 13	2420
395+25	-	408+35	STH 13	1890
409+00	-	413+20	STH 13	430
414+57	-	426+12	STH 13	810
426+90	-	433+00	STH 13	760
433+82		438+92	STH 13	910
PROJECT TOTALS				27,220

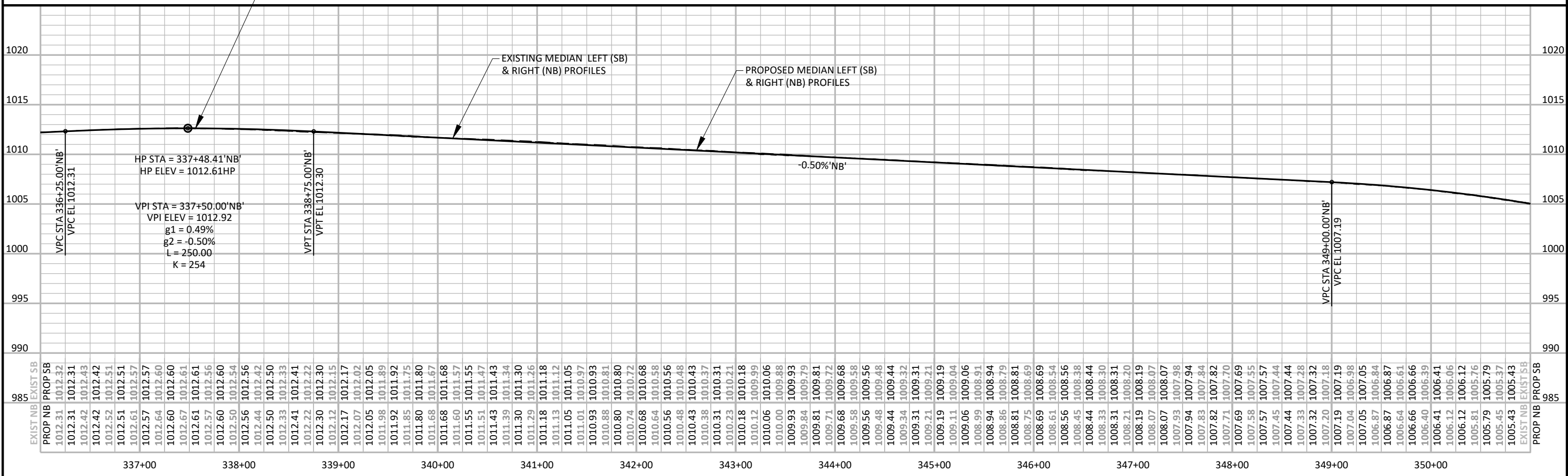


MATCH LINE STA 350+75

PI STA = 337+67.58"
PI N = 426649.154
PI E = 733636.337
DELTA = 005°43'17.8"
D = 001°30'00.0"
T = 190.88'
L = 381.44'
R = 3819.72"
PC STA = 335+76.70"
PC N = 426458.285
PC E = 733638.236
PT STA = 339+58.14"
PT N = 426838.883
PT E = 733615.419
SE = NC

BEGIN PAVEMENT REPLACEMENT
STA 337+56
SAW CUT REQ'D

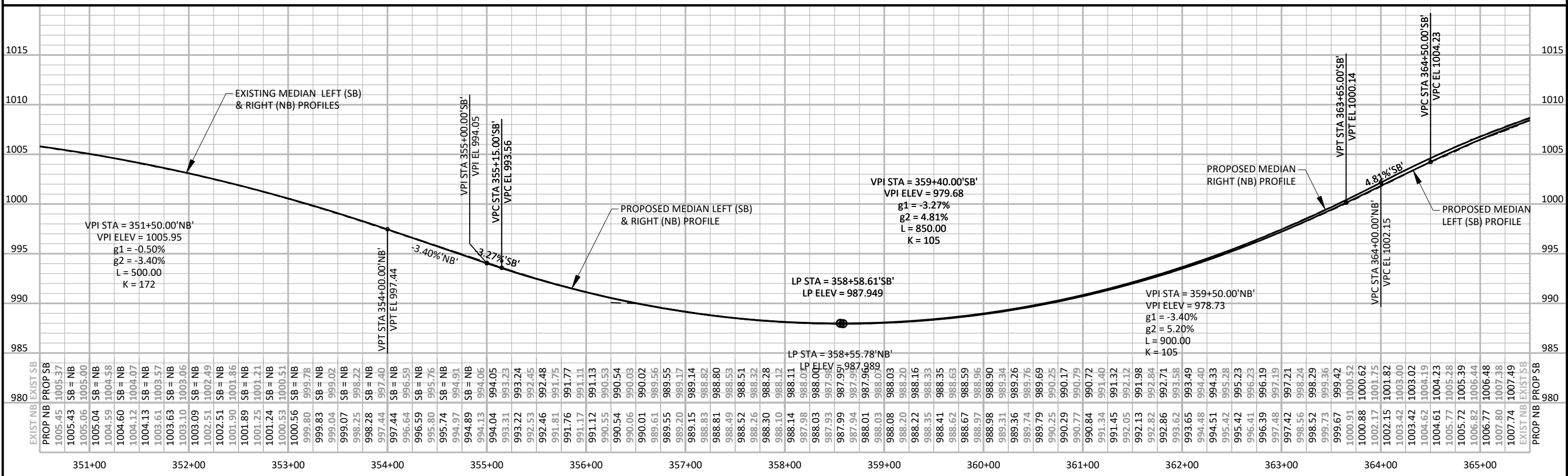
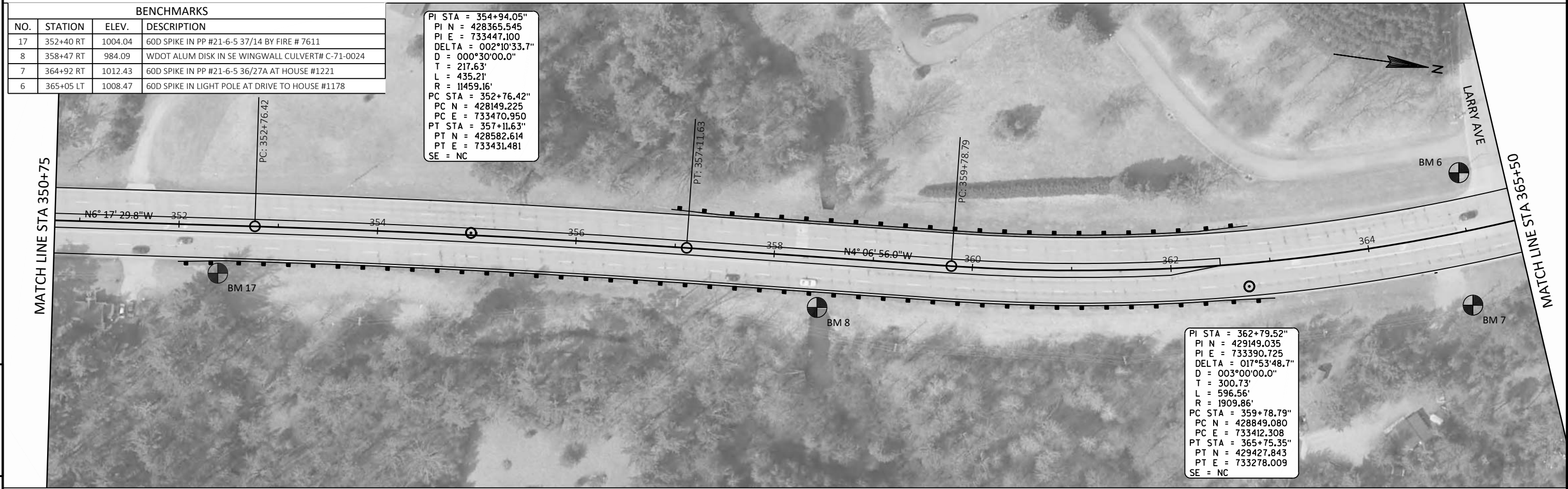
BENCHMARKS			
NO.	STATION	ELEV.	DESCRIPTION
20	337+68 LT	1014.24	60D SPIKE IN PP #21-6-8.2 25/52 SW CORNER OF RANGER RD
19	342+72 RT	1011.42	60D SPIKE IN PP #21-6-5 39/4
18	347+27 RT	1009.74	60D SPIKE IN PP #21-6-5 38/8 NEAR THE DRIVE TO FIRE #7721



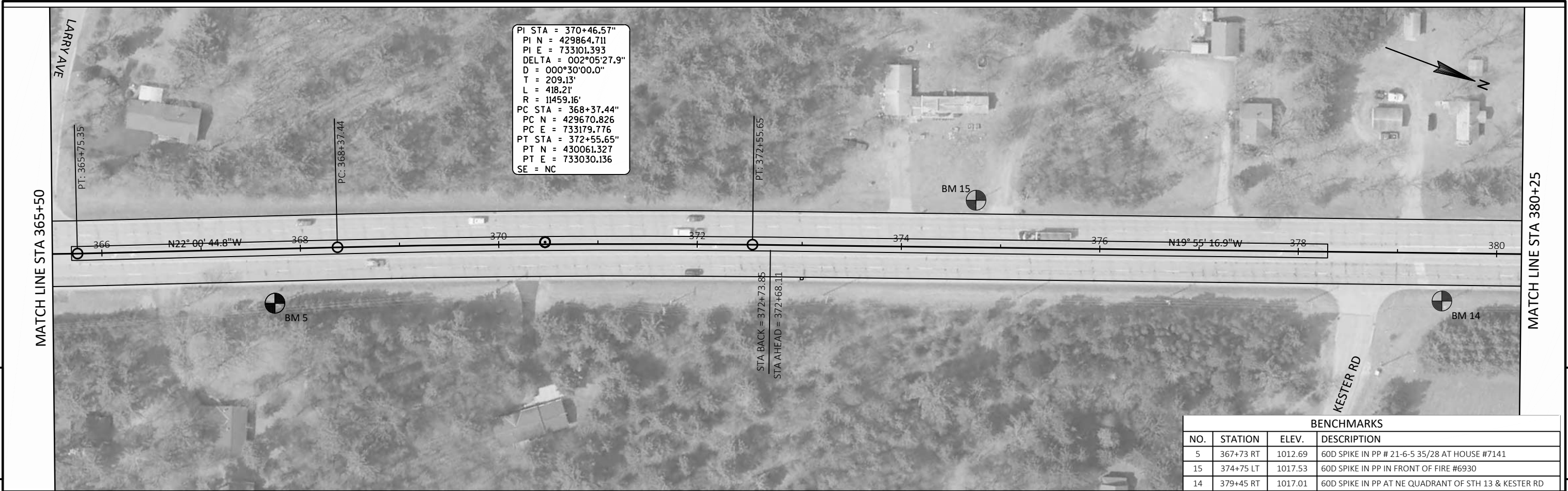
BENCHMARKS			
NO.	STATION	ELEV.	DESCRIPTION
17	352+40 RT	1004.04	60D SPIKE IN PP #21-6-5 37/14 BY FIRE # 7611
8	358+47 RT	984.09	WDOT ALUM DISK IN SE WINGWALL CULVERT# C-71-0024
7	364+92 RT	1012.43	60D SPIKE IN PP #21-6-5 36/27A AT HOUSE #1221
6	365+05 LT	1008.47	60D SPIKE IN LIGHT POLE AT DRIVE TO HOUSE #1178

PI STA = 354+94.05"
PI N = 428365.545
PI E = 733447.100
DELTA = 002°10'33.7"
D = 000°30'00.0"
T = 217.63'
L = 435.21'
R = 11459.16'
PC STA = 352+76.42"
PC N = 428149.225
PC E = 733470.950
PT STA = 357+11.63"
PT N = 428582.614
PT E = 733431.481
SE = NC

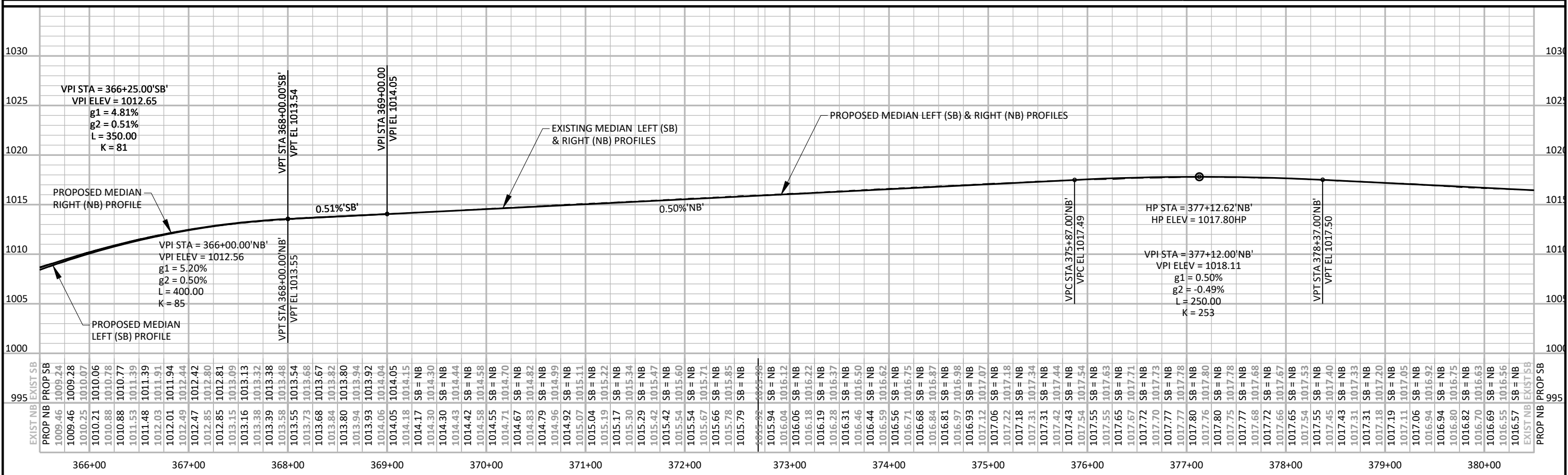
PI STA = 362+79.52"
PI N = 429149.035
PI E = 733390.725
DELTA = 017°53'48.7"
D = 003°00'00.0"
T = 300.73'
L = 596.56'
R = 1909.86'
PC STA = 359+78.79"
PC N = 428849.080
PC E = 733412.308
PT STA = 365+75.35"
PT N = 429427.843
PT E = 733278.009
SE = NC

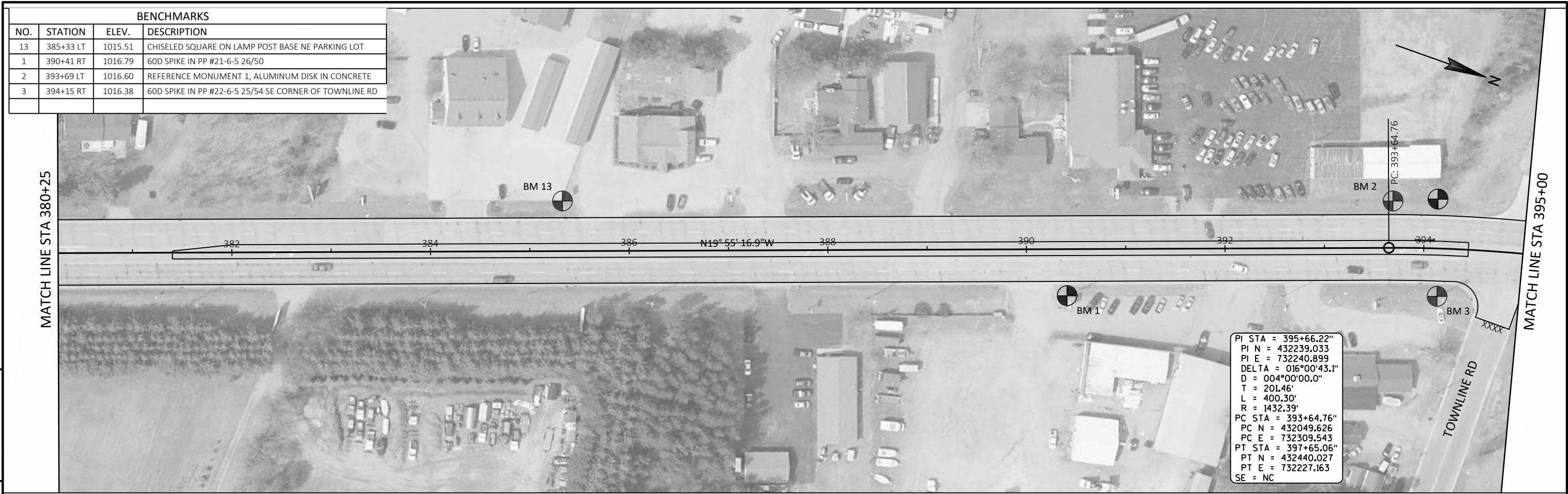


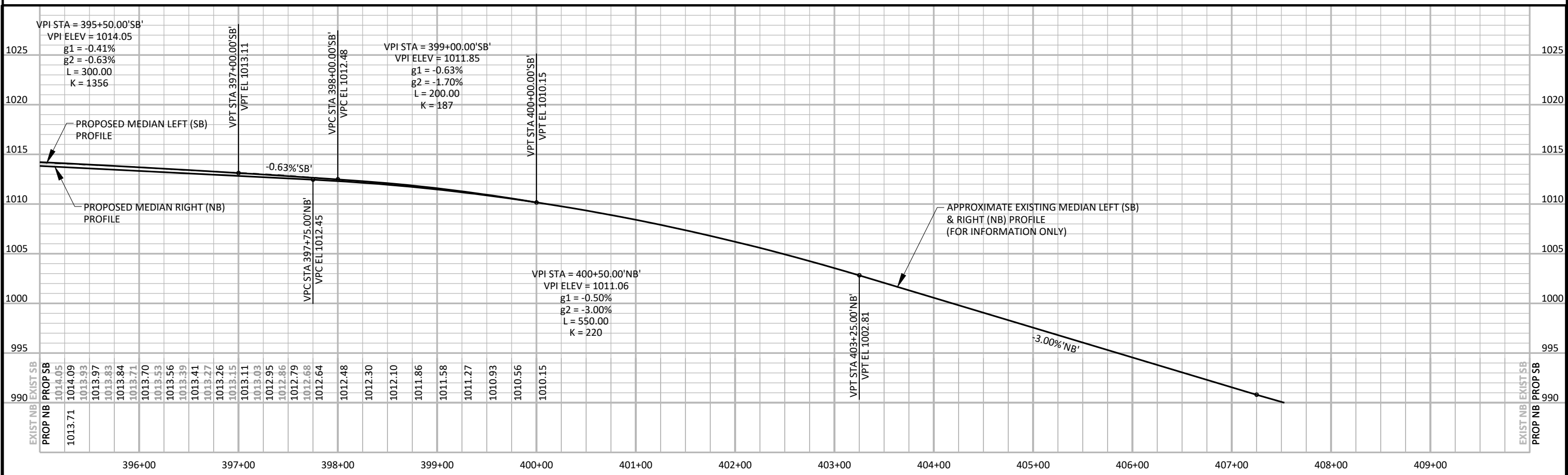
PROJECT NO: 6140-00-82	HWY: STH 13	COUNTY: WOOD	PLAN AND PROFILE: STH 13	SHEET	100	E
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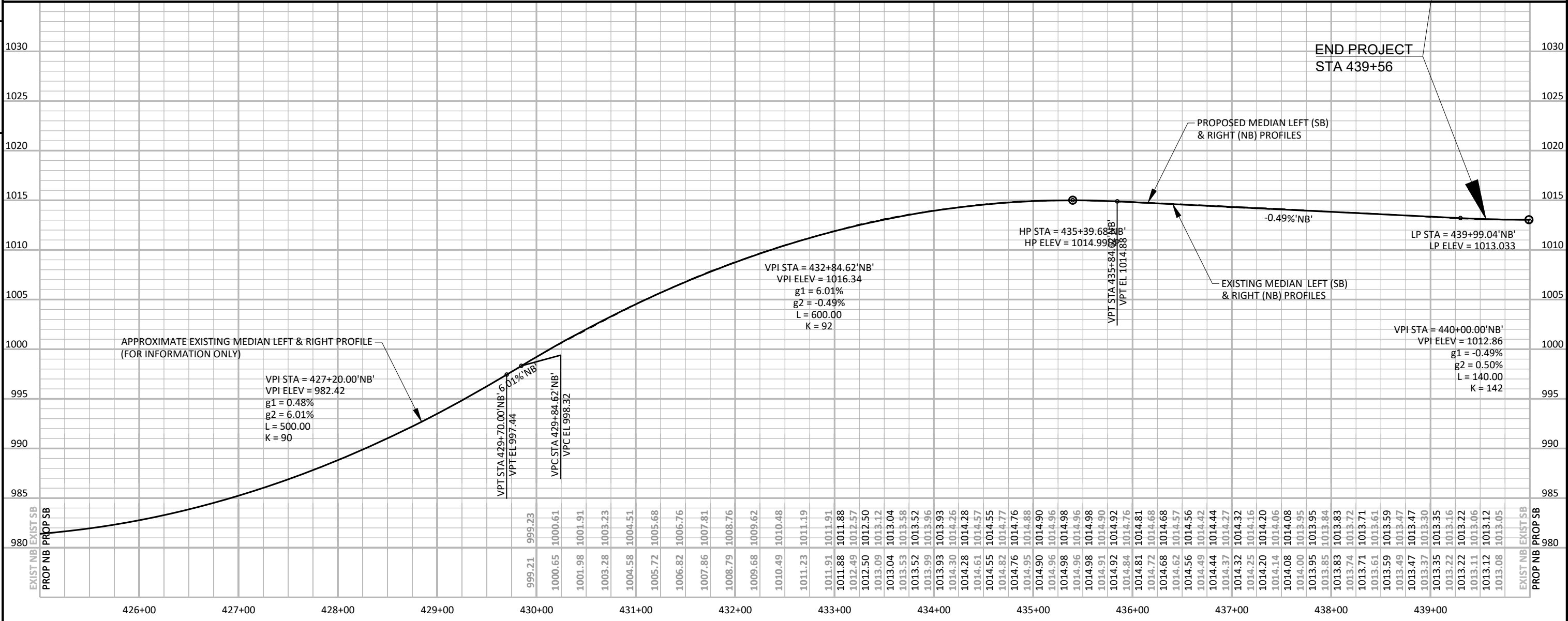
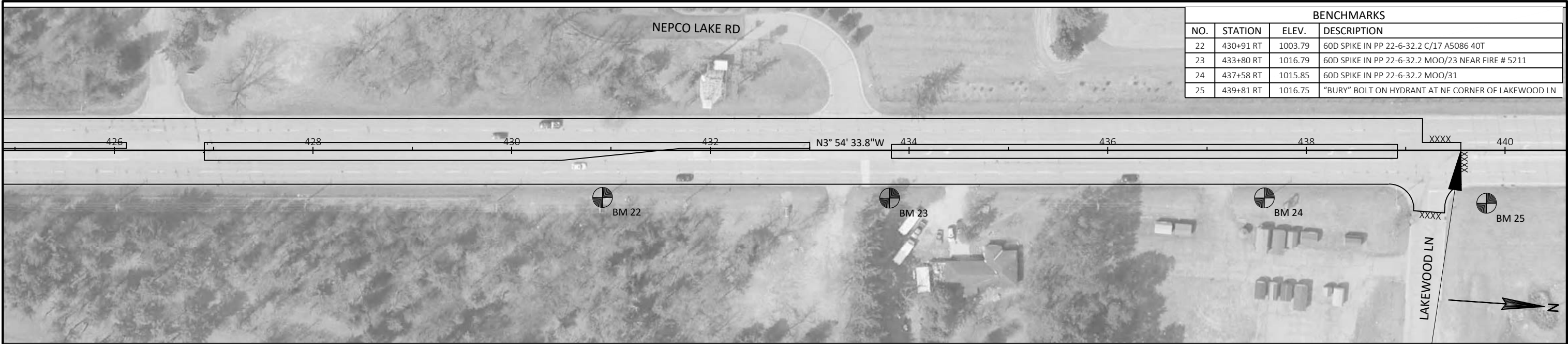


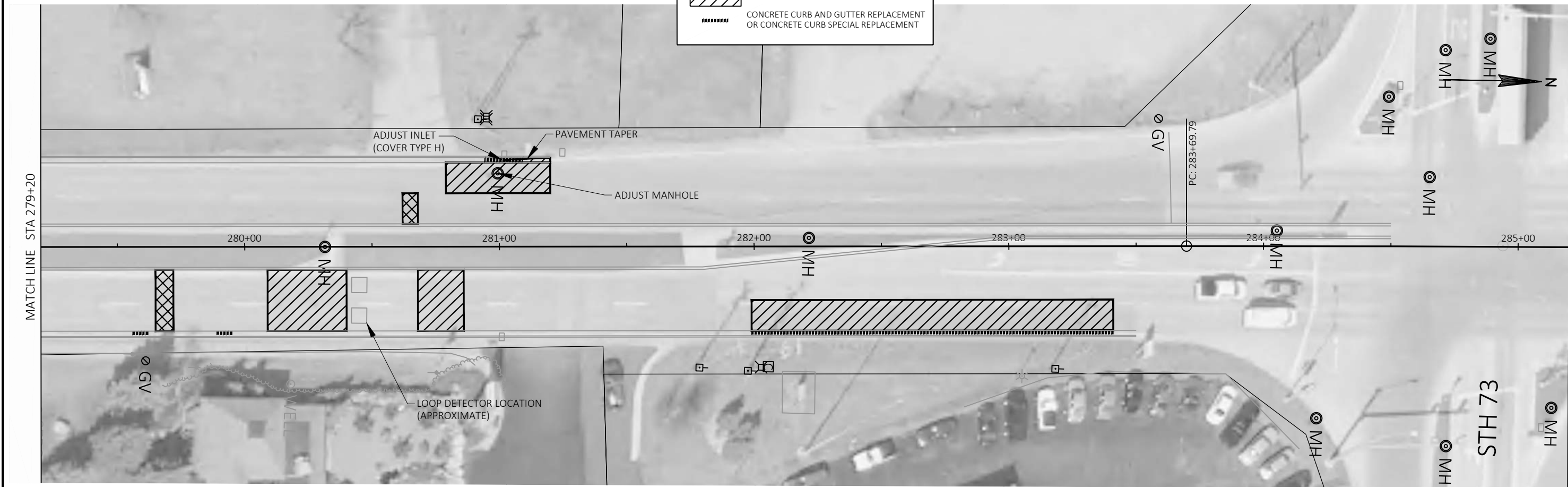
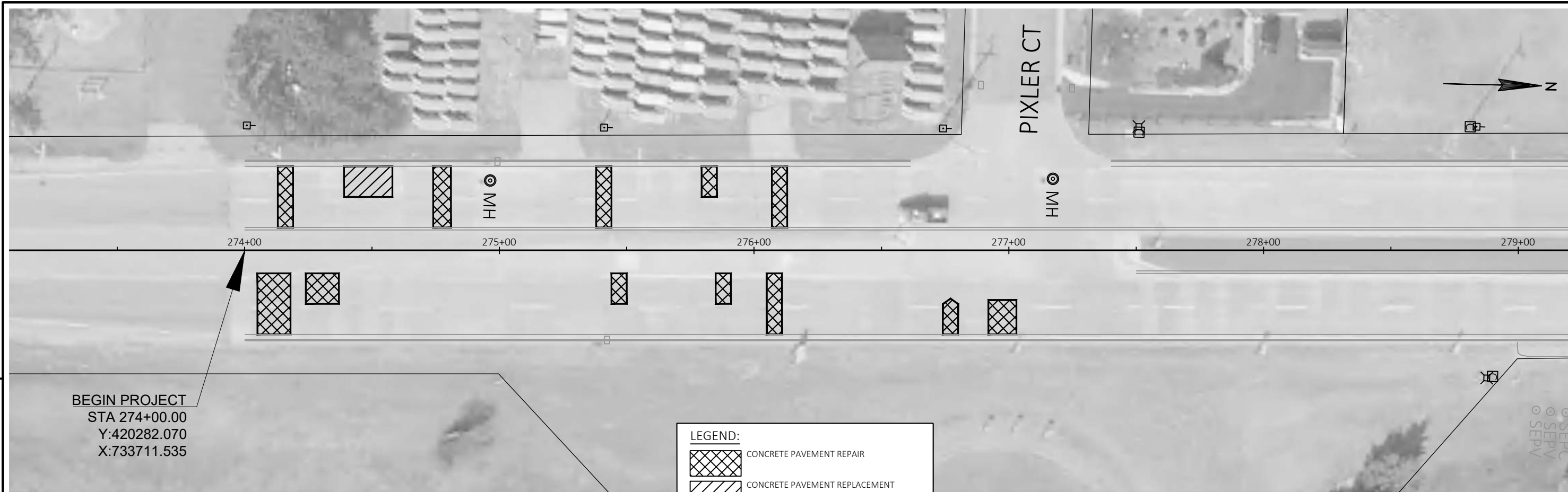
BENCHMARKS			
NO.	STATION	ELEV.	DESCRIPTION
5	367+73 RT	1012.69	60D SPIKE IN PP # 21-6-5 35/28 AT HOUSE #7141
15	374+75 LT	1017.53	60D SPIKE IN PP IN FRONT OF FIRE #6930
14	379+45 RT	1017.01	60D SPIKE IN PP AT NE QUADRANT OF STH 13 & KESTER RD







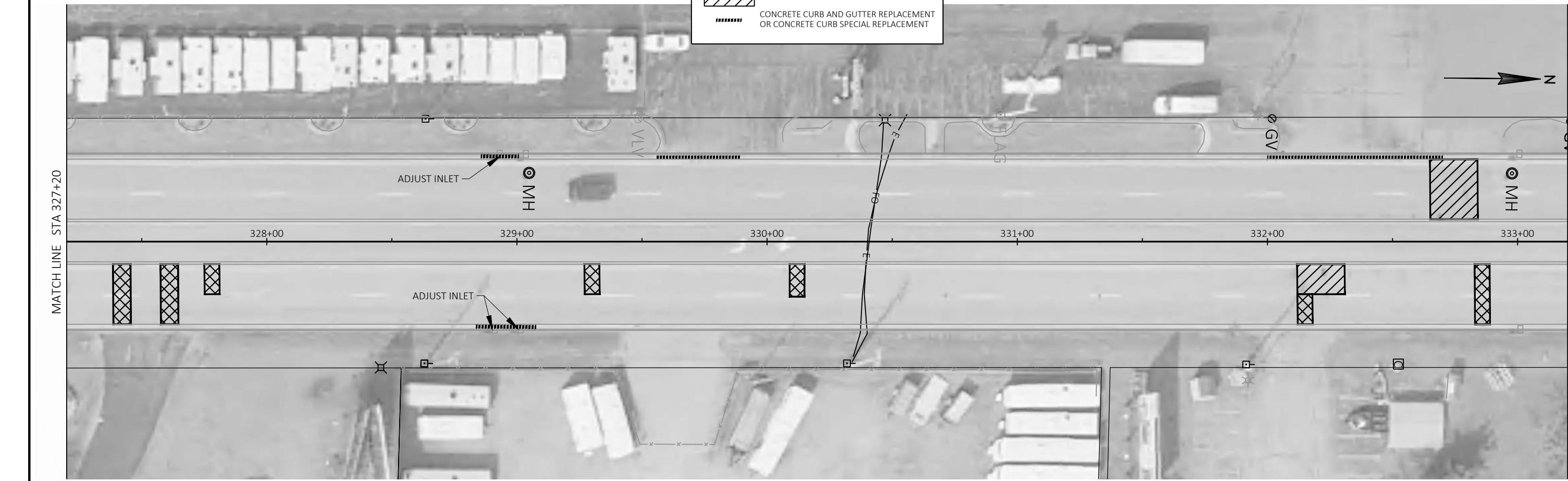


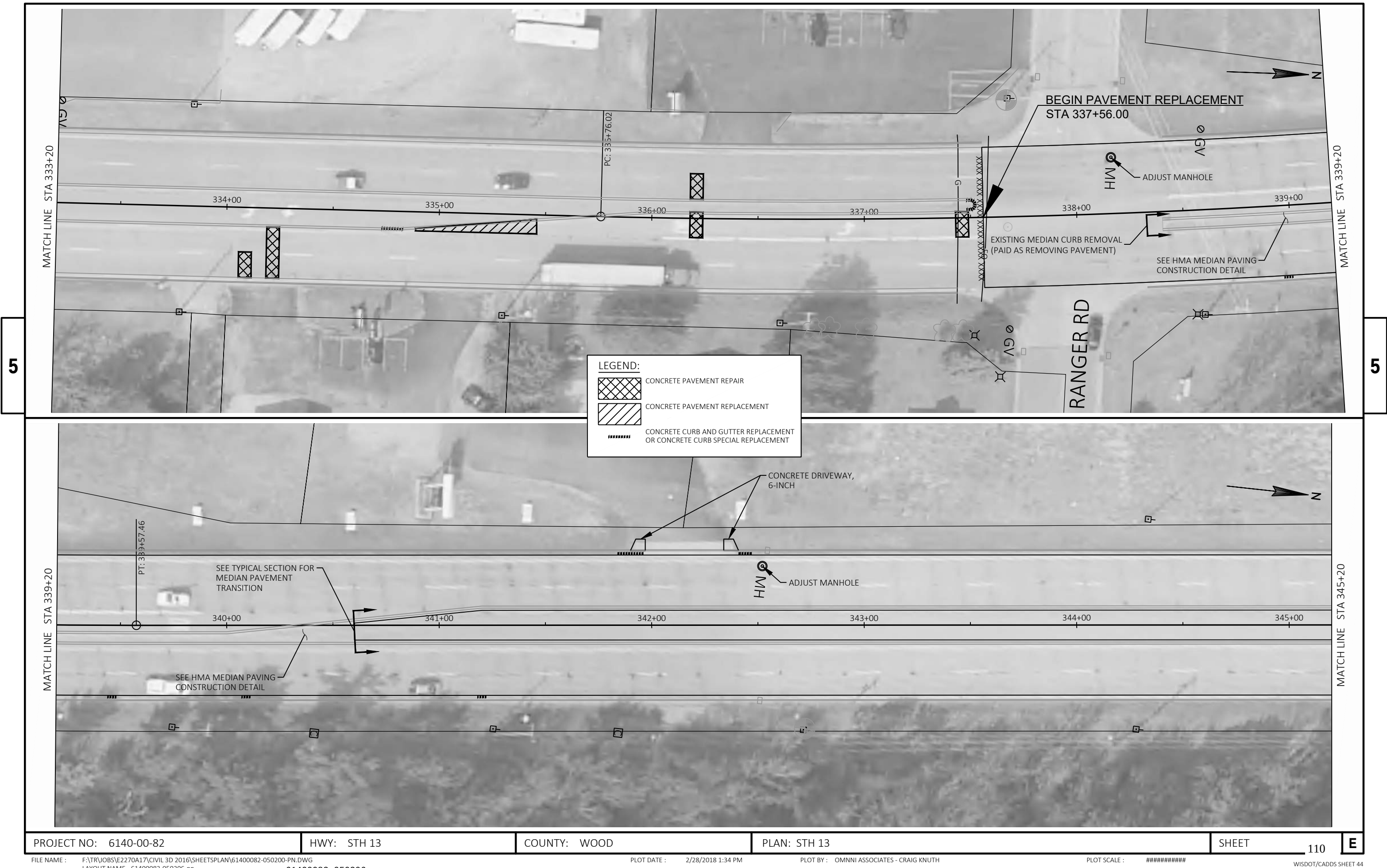




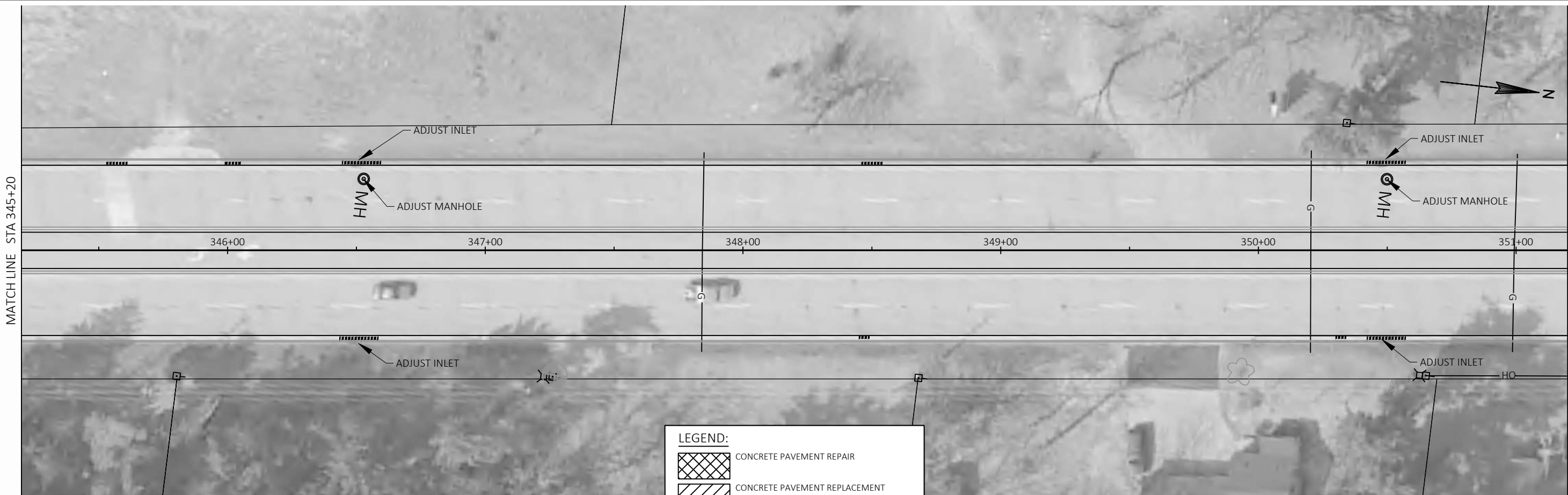




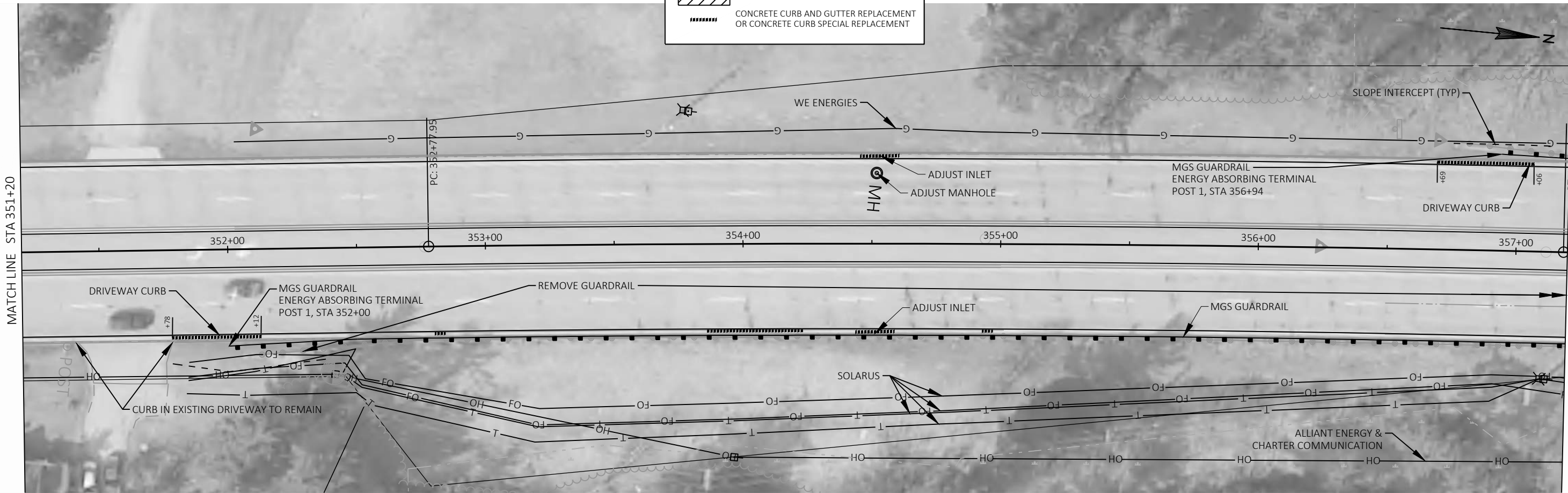




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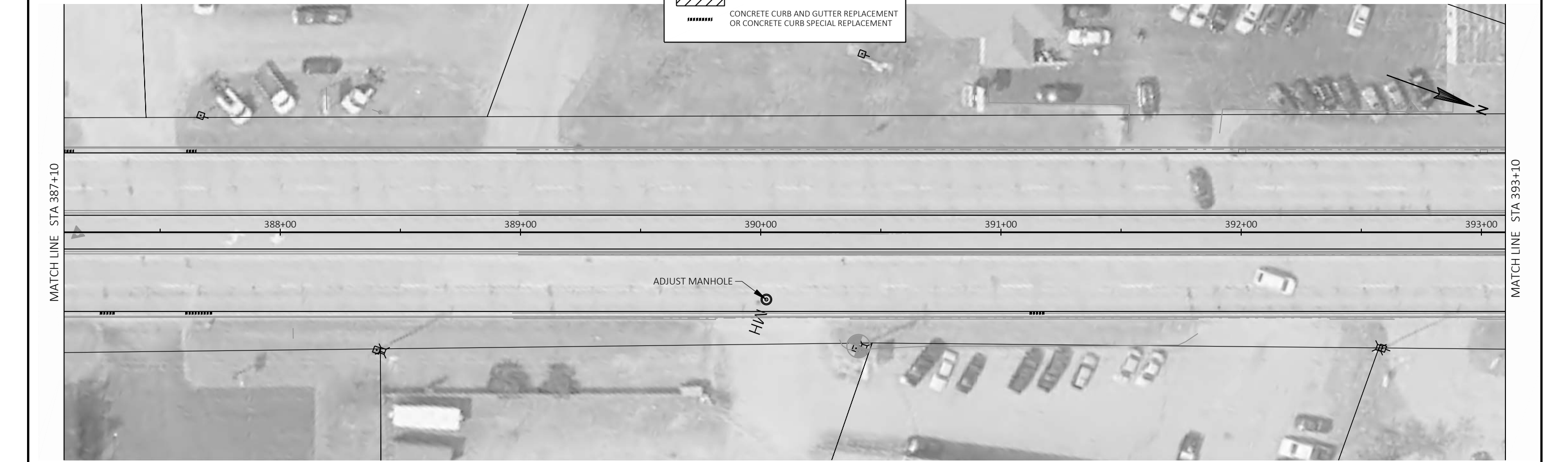
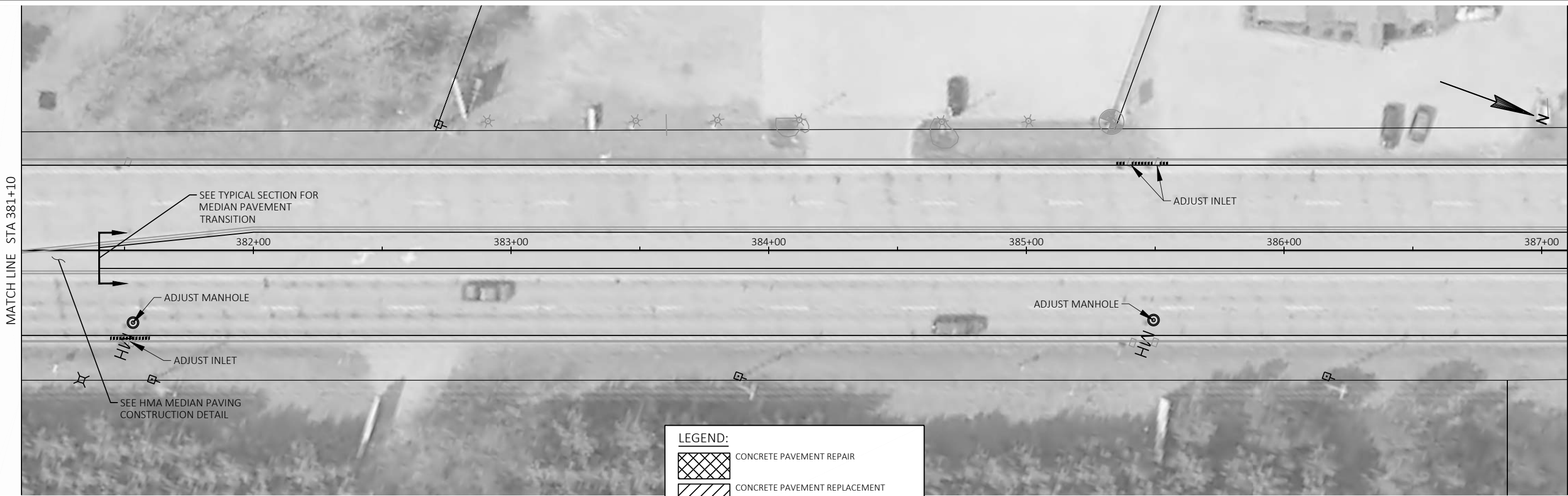


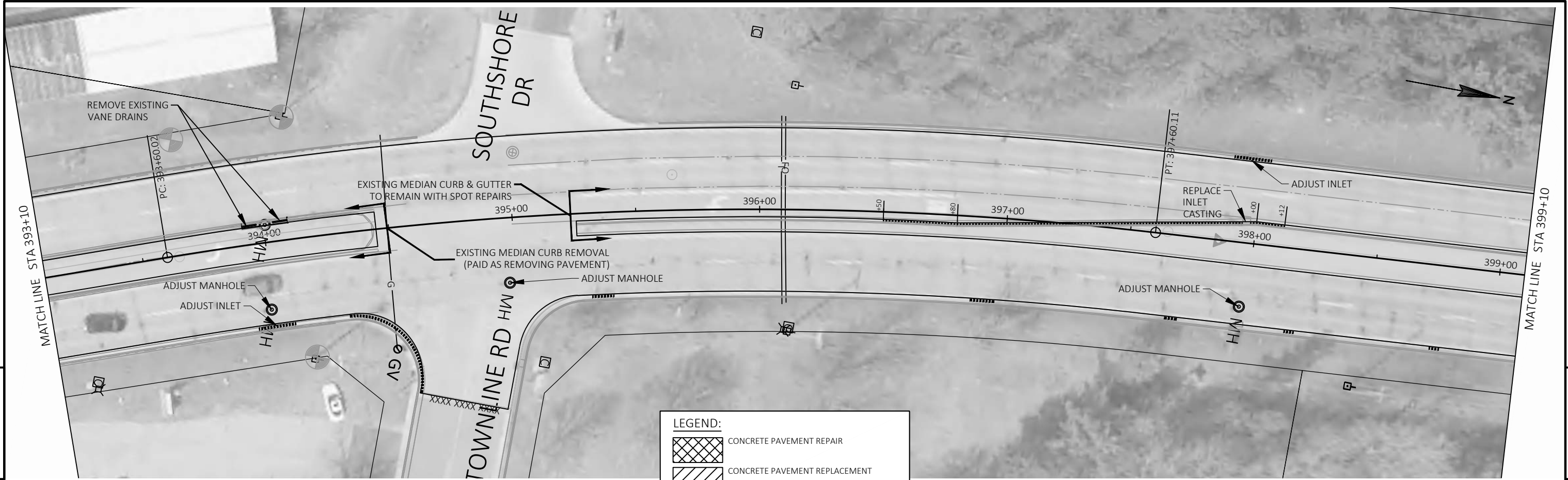
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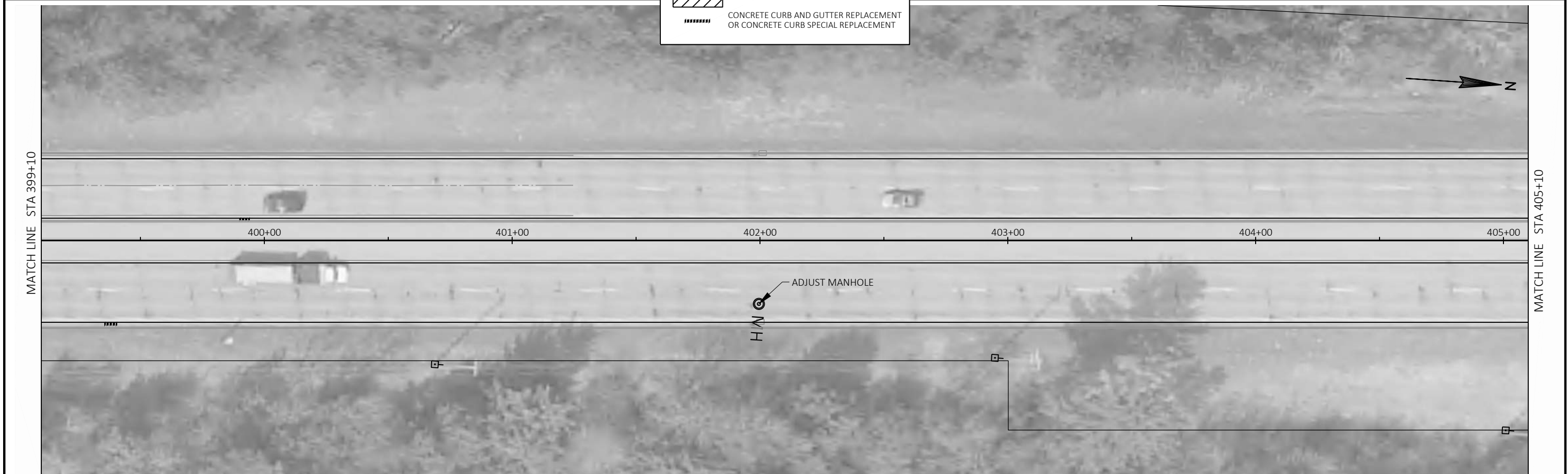


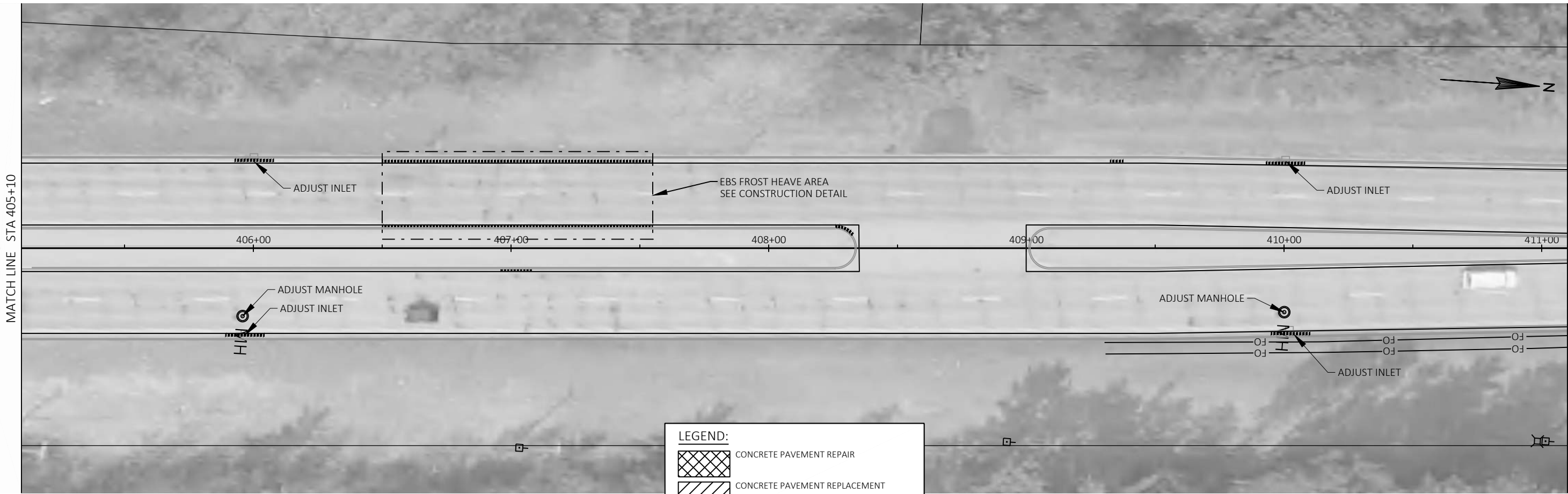




LEGEND:

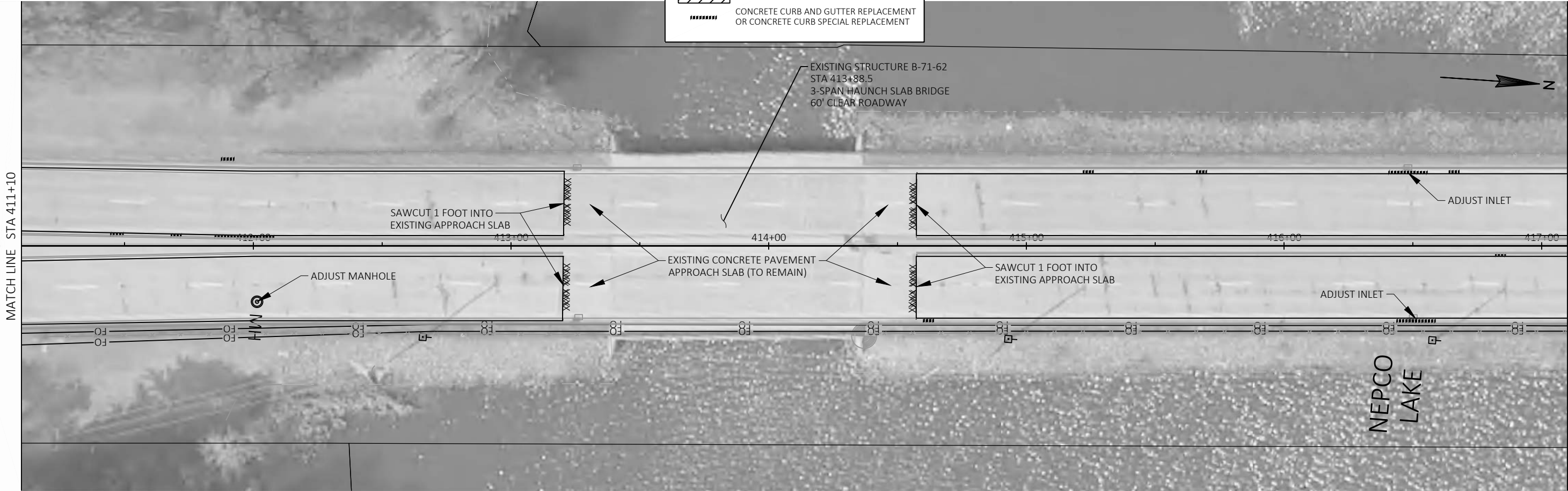
	CONCRETE PAVEMENT REPAIR
	CONCRETE PAVEMENT REPLACEMENT
	CONCRETE CURB AND GUTTER REPLACEMENT OR CONCRETE CURB SPECIAL REPLACEMENT





LEGEND:

	CONCRETE PAVEMENT REPAIR
	CONCRETE PAVEMENT REPLACEMENT
	CONCRETE CURB AND GUTTER REPLACEMENT OR CONCRETE CURB SPECIAL REPLACEMENT



NEPCO
LAKE

ADJUST INLET



MATCH LINE STA 417+10

418+00

419+00

420+00

421+00

422+00

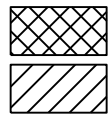
423+00

ADJUST INLET

MH

MH

LEGEND:



CONCRETE PAVEMENT REPAIR

CONCRETE PAVEMENT REPLACEMENT

CONCRETE CURB AND GUTTER REPLACEMENT
OR CONCRETE CURB SPECIAL REPLACEMENT

5

MATCH LINE STA 423+10

424+00

425+00

426+00

427+00

428+00

429+00

ADJUST INLET

ADJUST INLET

MH

MATCH LINE STA 429+10

PROJECT NO: 6140-00-82

HWY: STH 13

COUNTY: WOOD

PLAN: STH 13

SHEET

117

E

FILE NAME : F:\TR\JOBS\E2270A17\CIVIL 3D 2016\SHEETSPLAN\61400082-050200-PN.DWG
LAYOUT NAME - 61400082-050213-pn

61400082-050213-pn

PLOT DATE : 2/28/2018 1:36 PM

PLOT BY : OMNNI ASSOCIATES - CRAIG KNUTH

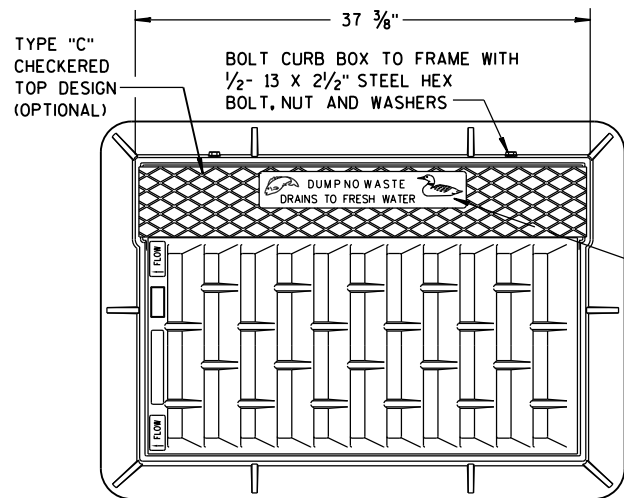
PLOT SCALE : #####

WISDOT/CADDs SHEET 44

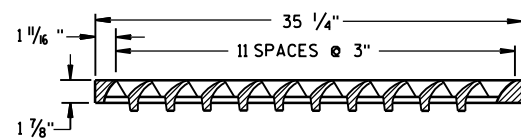
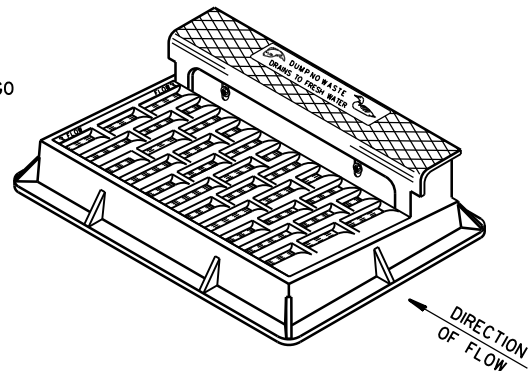


Standard Detail Drawing List

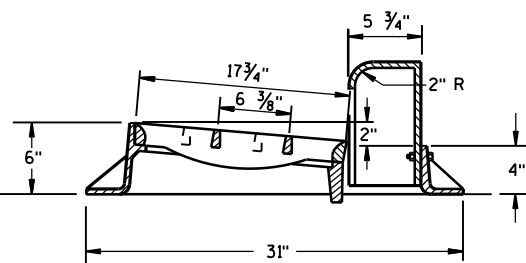
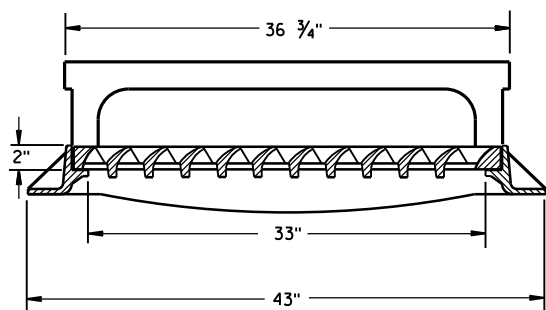
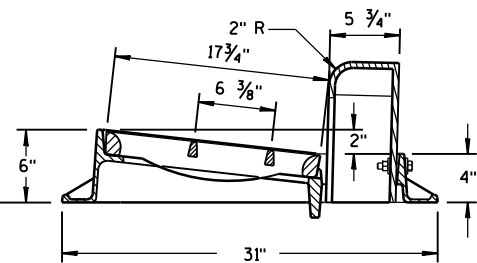
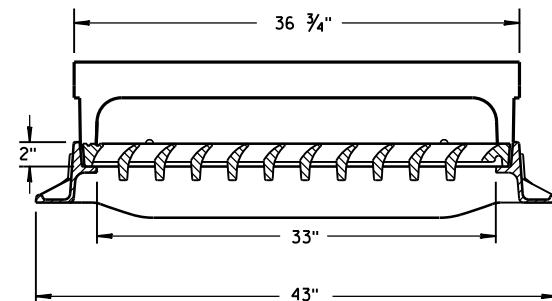
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D14-01	SLOTTED VANE DRAIN
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
11B02-02	CONCRETE MEDIAN NOSE
13C09-14A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-14B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-14C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
14B42-05A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-03A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15C03-04	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-04	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-04	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C08-18B	PAVEMENT MARKING (TURN LANES)
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C27-02A	DOUBLE ARROW WARNING SIGN PLACEMENT
15C27-02B	PAVEMENT MARKING (ISLANDS)
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D06-03	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-05	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



**NOTE:
GRATE IS REVERSIBLE.**

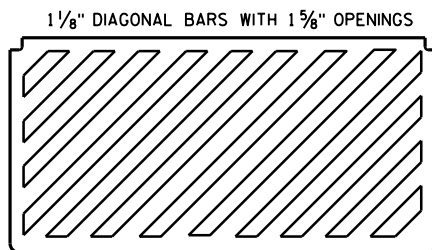


NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

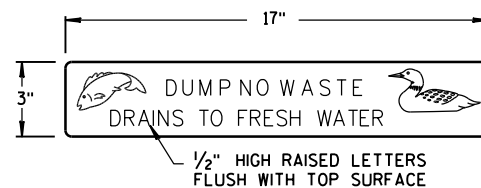


TYPE "H"

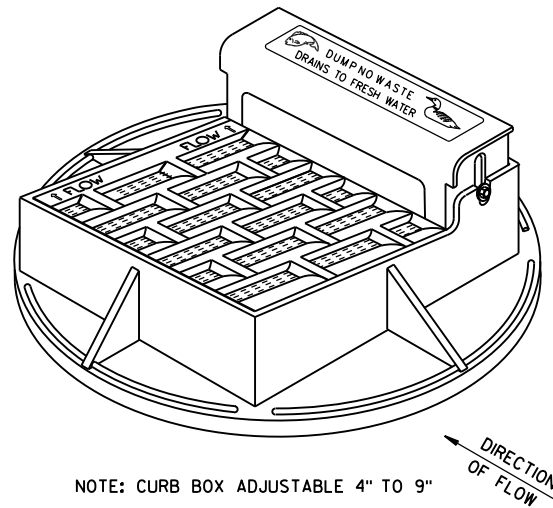
NOTE: EITHER CASTING IS ACCEPTABLE



**SPECIAL GRATE FOR
TYPE "H" COVER**
(MEASURES 35 1/4" X 17 3/4" X 2")
(NOTED AS TYPE H-S ON DRAINAGE TABLE)

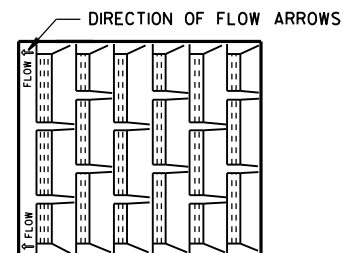


LOGO DETAIL

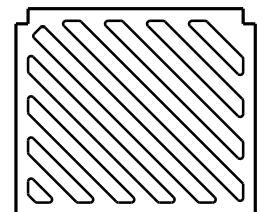


NOTE: CURB BOX ADJUSTABLE 4" TO 9"

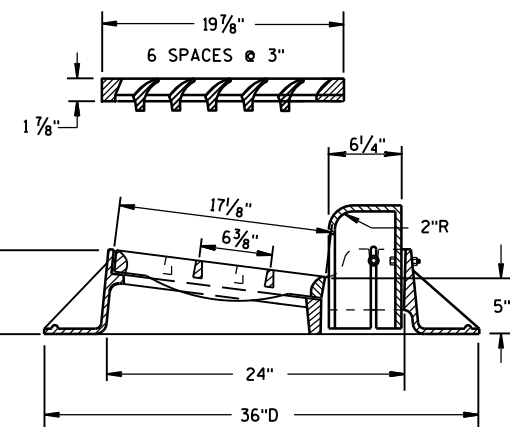
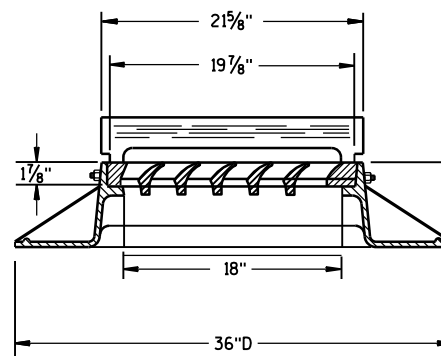
**NOTE:
GRATE IS REVERSIBLE.**



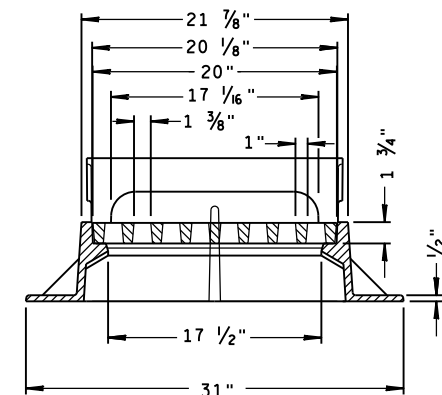
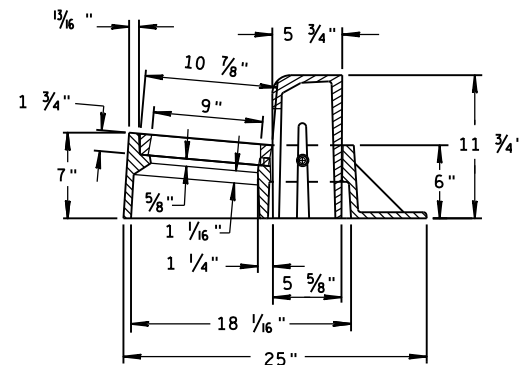
1" DIAGONAL BARS
WITH 1 1/2" OPENINGS



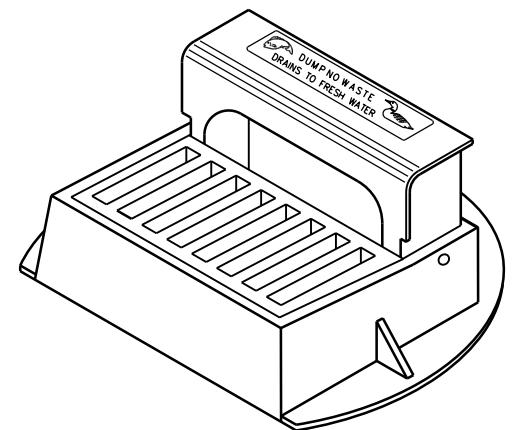
**SPECIAL GRATE FOR
TYPE "A" COVER**
(MEASURES 19 3/4" X 17" X 1 1/8")
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"



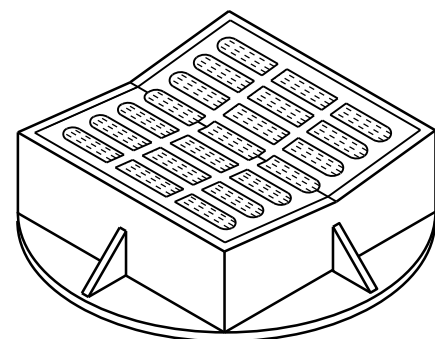
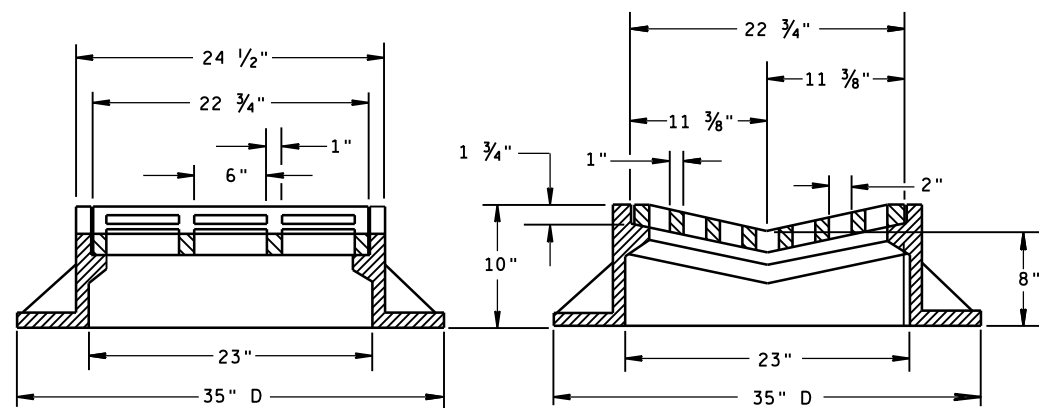
TYPE "Z"



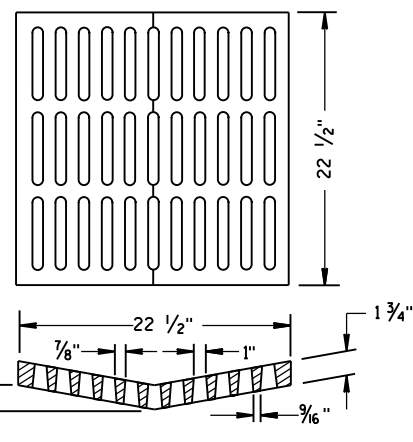
**INLET COVERS
TYPE A, H, A-S, H-S & Z**

**STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION**

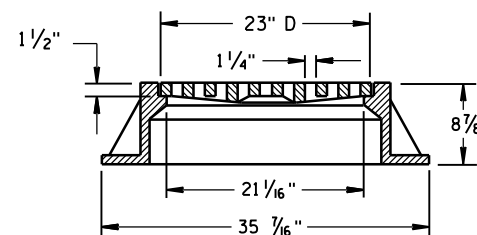
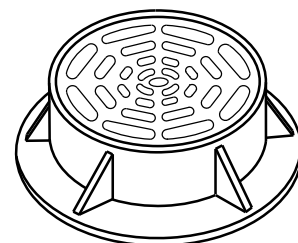
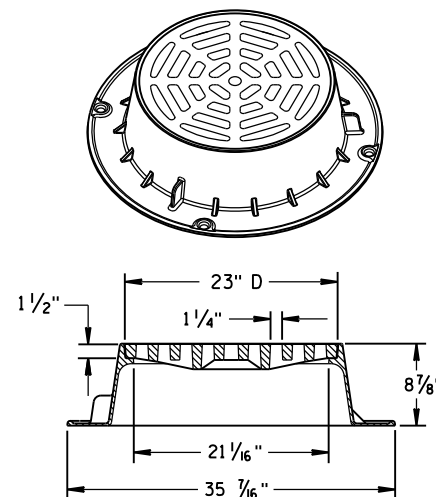
APPROVED
11-27-13 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS 120 ENT
FHWA ENGINEER



TYPE "B"

ALTERNATIVE GRATE FOR
TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
 NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

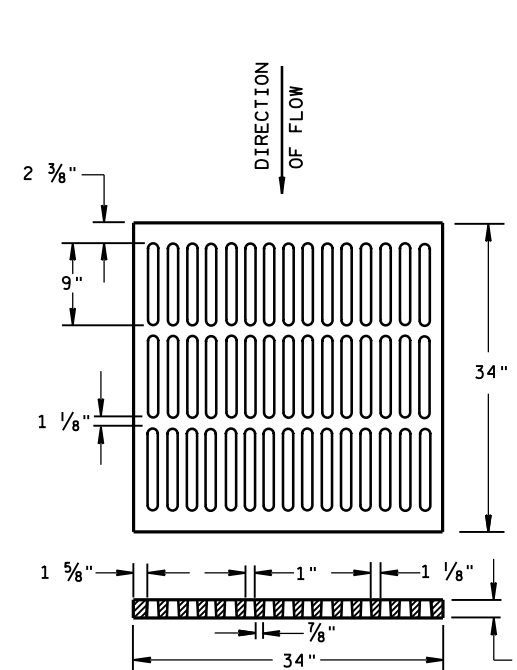
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

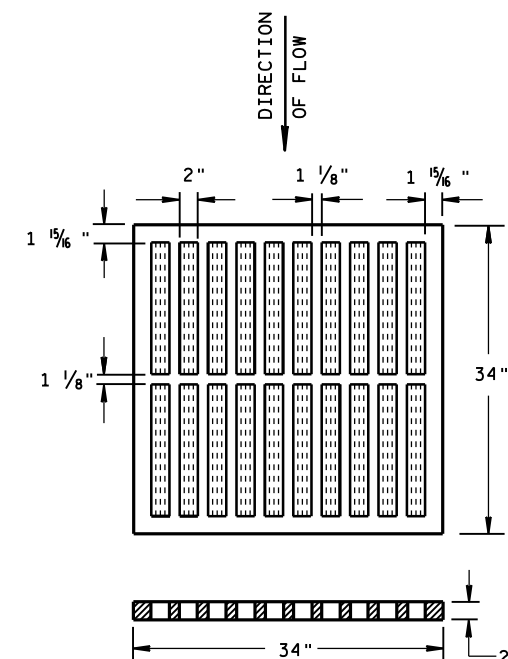
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



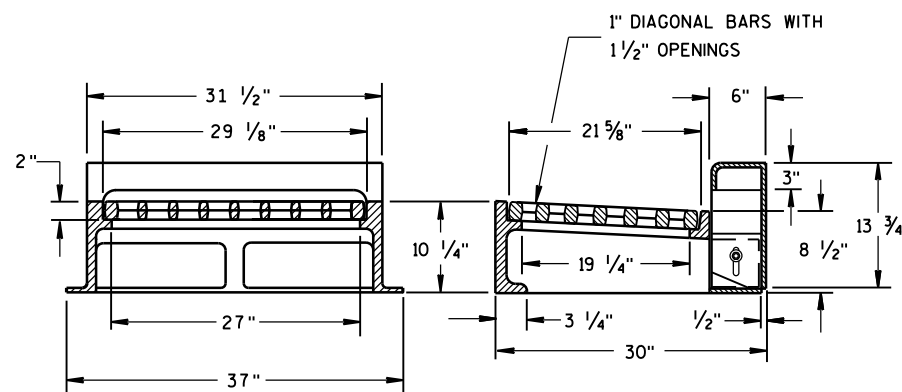
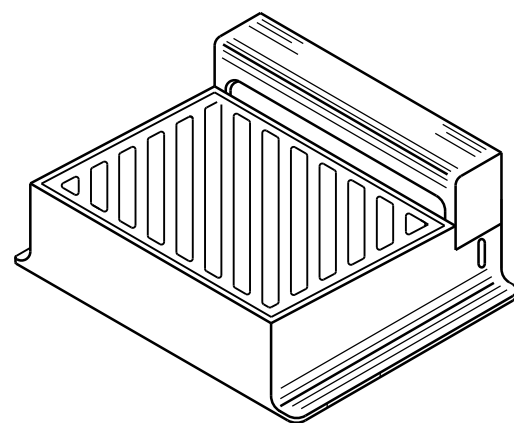
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
 NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
 NOTED AS TYPE MS ON DRAINAGE TABLE



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

DIAGONAL SLOTS, SHALL BE ORIENTED
 TO THE DIRECTION OF FLOW AS ILLUSTRATED.
 GRATES ARE MANUFACTURED TO BE REVERSIBLE.

DIRECTION
OF FLOW

INLET COVERS
 TYPE B, B-A, C,
 MS, MS-A, & WM

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

APPROVED

11/27/2013

DATE

FHWA

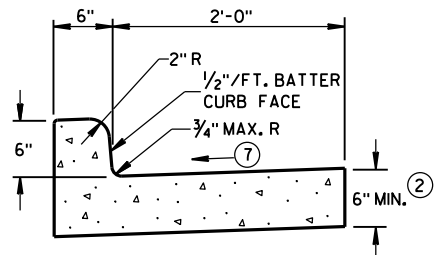
/S/ Jerry H. Zogg

ROADWAY STANDARDS

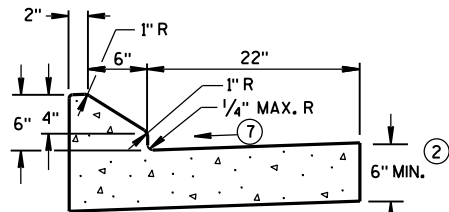
ENGINEER

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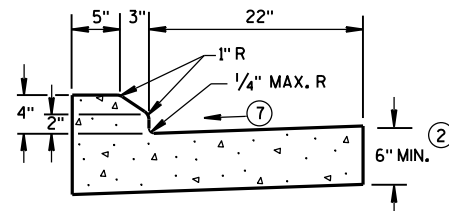
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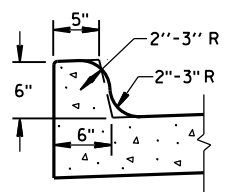
TYPES A^① & D



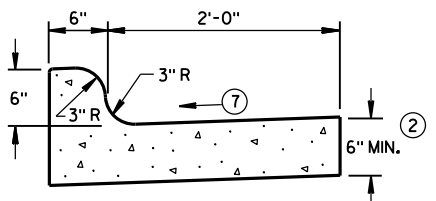
6" SLOPED CURB TYPES G^① & J



4" SLOPED CURB TYPES G^① & J

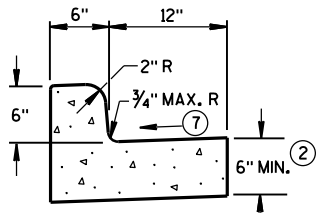


TYPES K^① & L
(OPTIONAL CURB SHAPE)



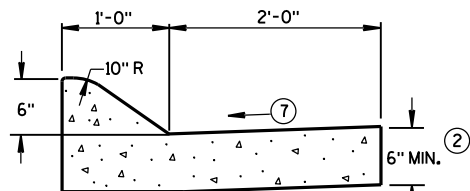
TYPES K^① & L

CONCRETE CURB & GUTTER 30"

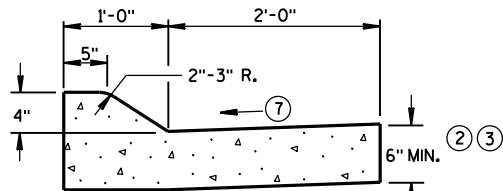


TYPES A^① & D

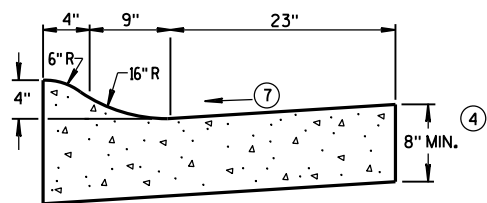
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A^① & D

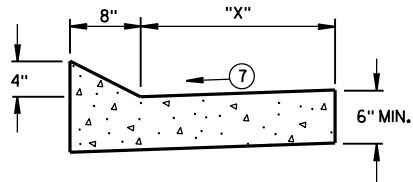


4" SLOPED CURB TYPES A^① & D



4" SLOPED CURB TYPES R^① & T^⑤

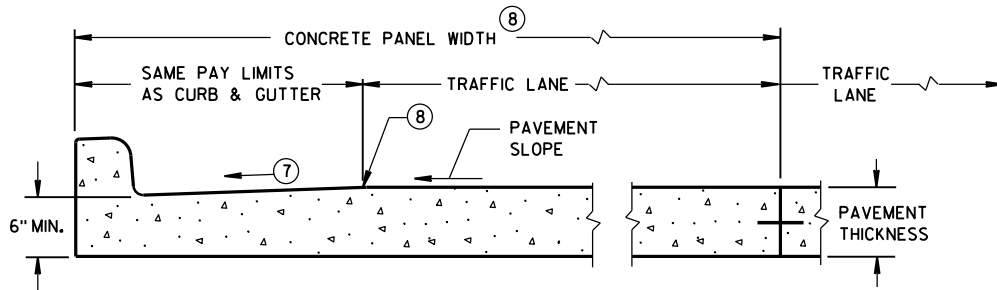
CONCRETE CURB & GUTTER 36"



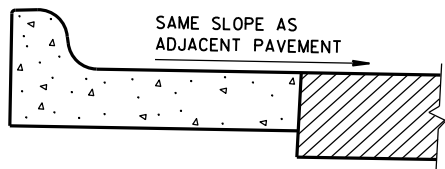
TYPES TBT & TBTT^①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"



PARTIAL SECTION OF PAVEMENT^{*}
WITH INTEGRAL CURB & GUTTER



REVERSE SLOPE GUTTER^⑥
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
- ④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- ⑦ USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- ⑧ INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

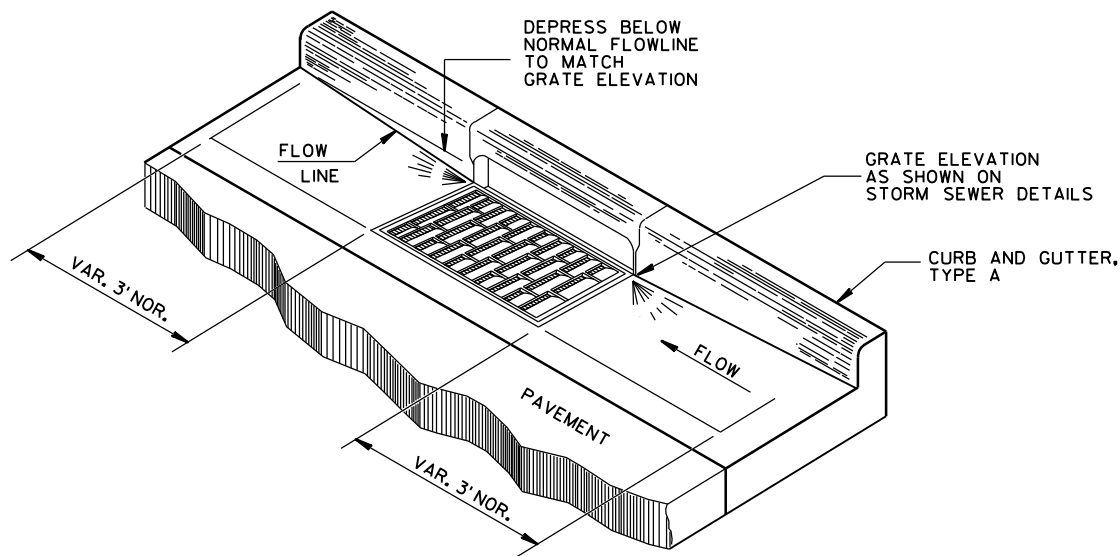
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

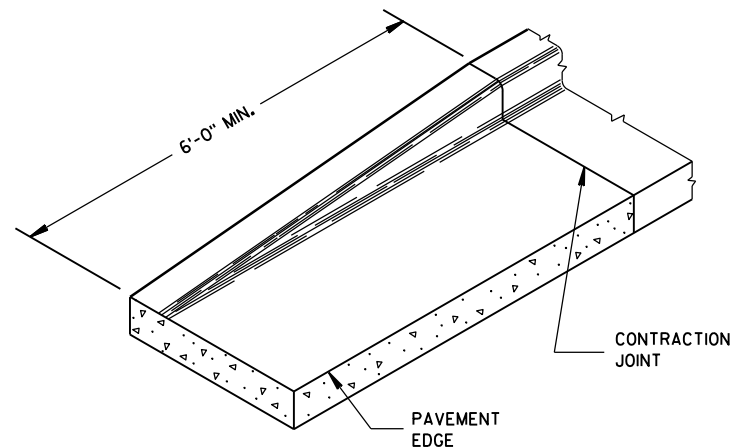
* BIKE LANE IS NOT SHOWN.

CONCRETE CURB & GUTTER

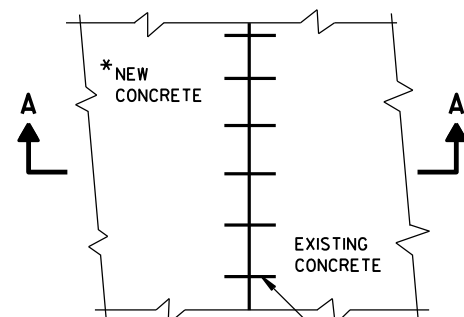
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



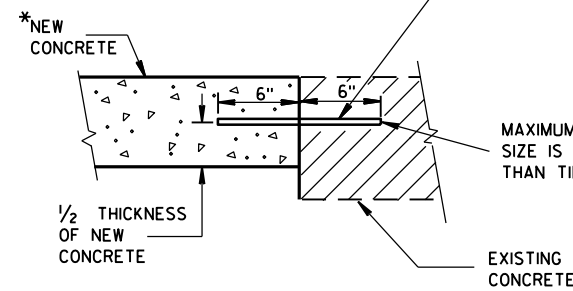
DETAIL OF CURB AND GUTTER AT INLETS
(TYPE H INLET COVER SHOWN)



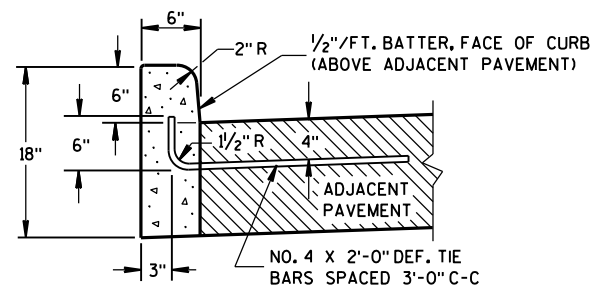
END SECTION CURB & GUTTER



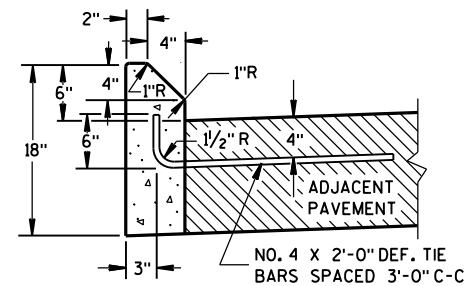
PLAN VIEW



SECTION A-A
TIE BARS DRILLED
INTO EXISTING PAVEMENT



TYPES A^① & D



TYPES G^① & J

GENERAL NOTES

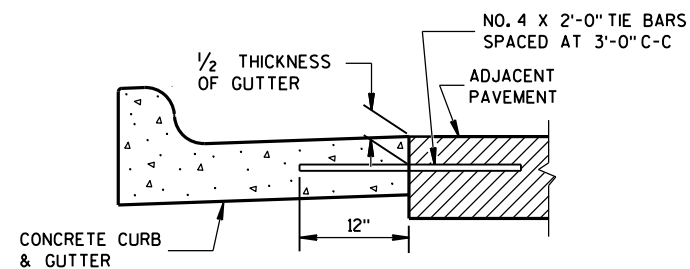
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

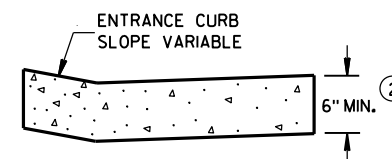
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑨ REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

CONCRETE CURB

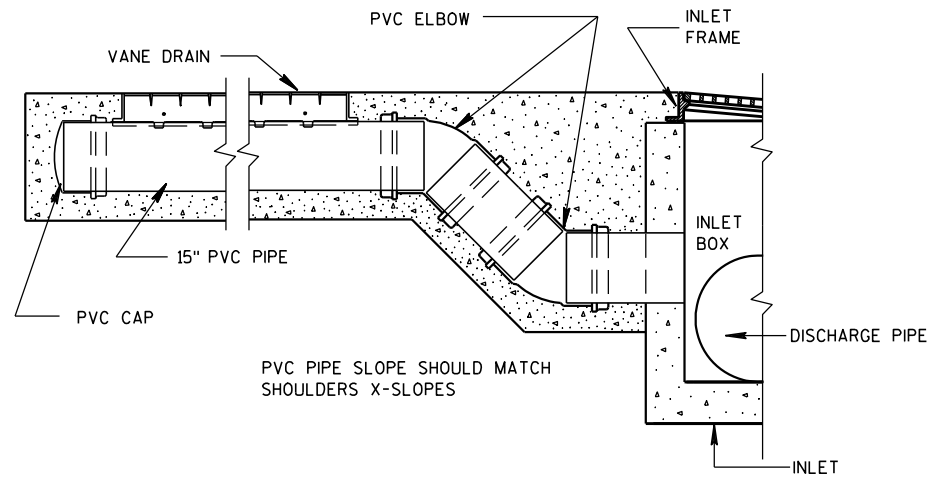


TYPICAL TIE BAR LOCATION^①

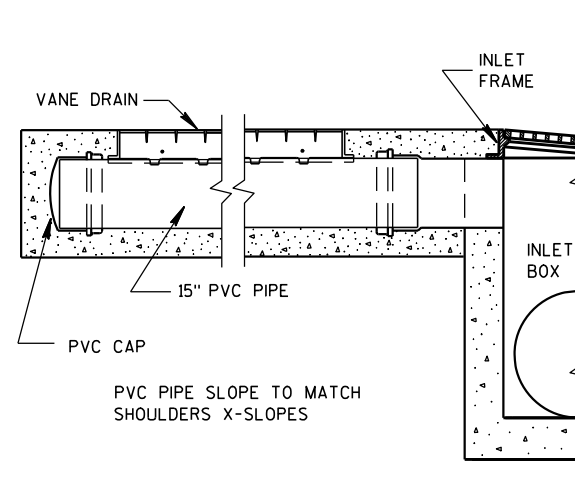


DRIVEWAY ENTRANCE CURB^⑨
(WHEN DIRECTED BY THE ENGINEER)

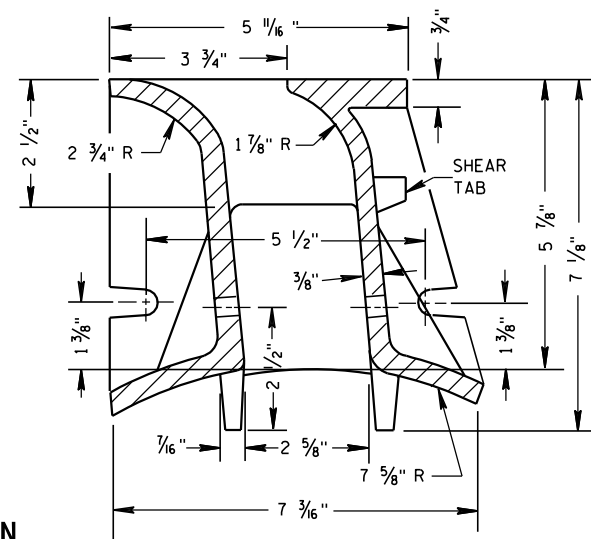
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
APPROVED June, 2017 DATE	/S/ Rodney Taylor ROADWAY STANDARDS 123 UNIT SUPERVISOR	ENT	
FHWA			



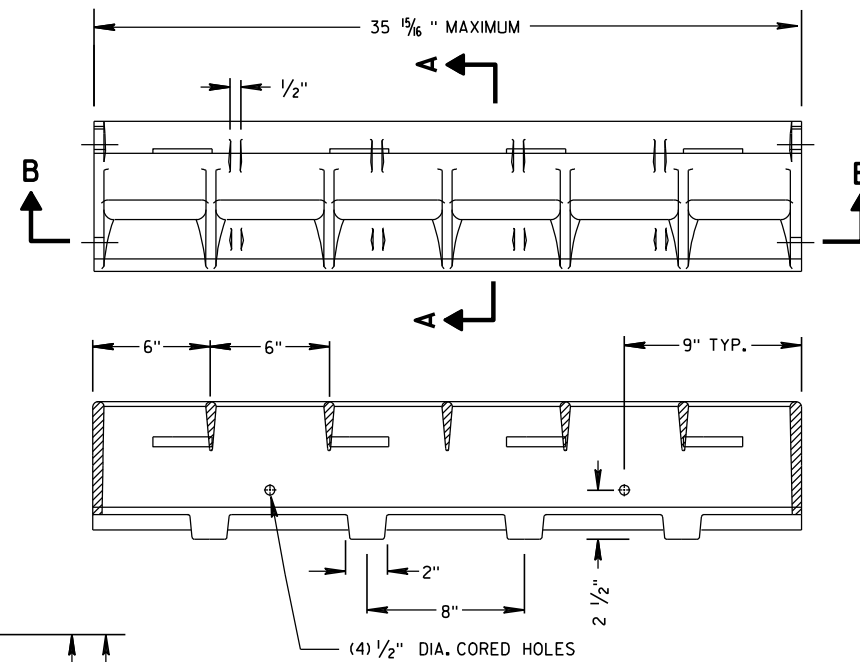
TYPICAL SLOTTED VANE DRAIN CONFIGURATION



TYPICAL SLOTTED VANE DRAIN CONFIGURATION



SECTION A-A



**SECTION B-B
SLOTTED VANE DRAIN DETAIL**
(APPROXIMATE WEIGHT 87 LBS.)

GENERAL NOTES

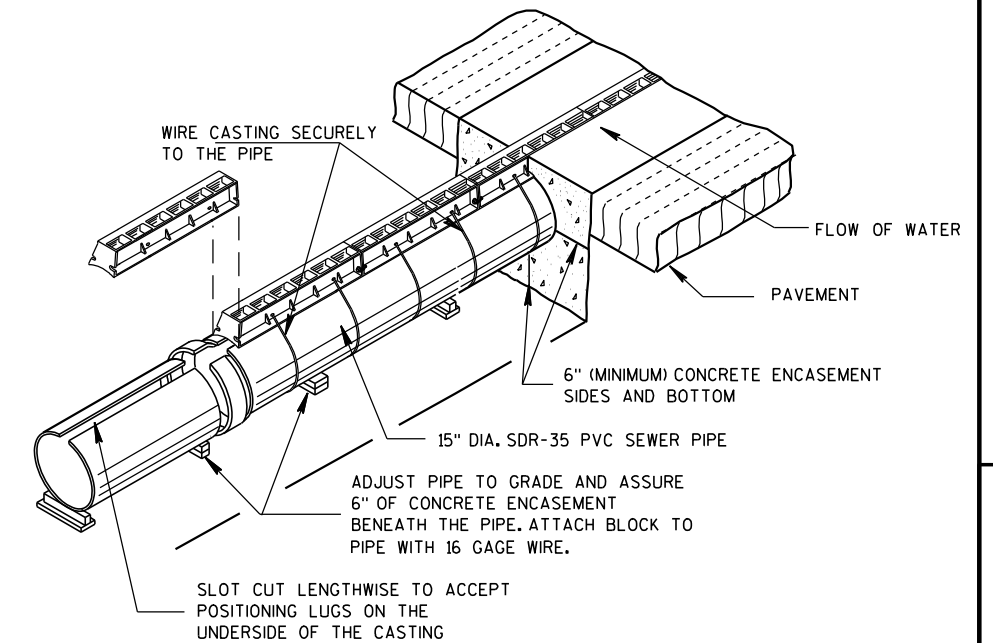
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ENCASEMENT: THE ENCASING MATERIAL AROUND THE PIPE SHALL BE IN ACCORDANCE WITH SPECIFICATIONS OF 501.4.3.3 FOR CONCRETE PAVEMENT.

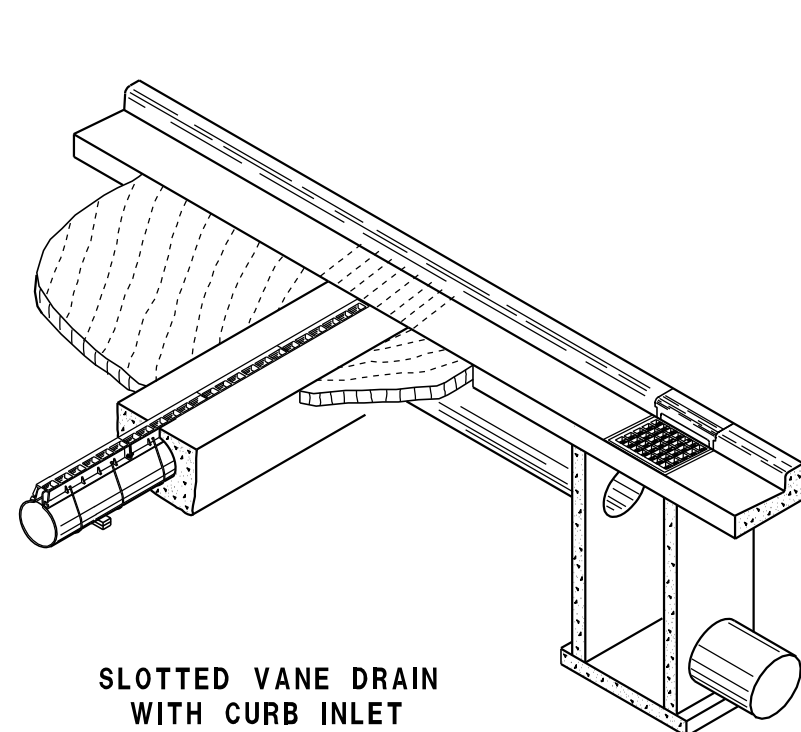
THE PIPE USED SHALL BE A 15" DIAMETER SDR-35 POLYVINYL CHLORIDE SEWER PIPE. THE PIPE SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN STANDARD SPECIFICATION 612.2.6

SURFACE DRAIN: BEFORE PAVING OVER THE DRAIN, COVER THE TOP OF THE DRAIN TO KEEP MATERIAL OUT OF THE PIPE. THE FINISHED GRADE SHOULD BE FLUSH WITH THE TOP OF THE DRAIN.

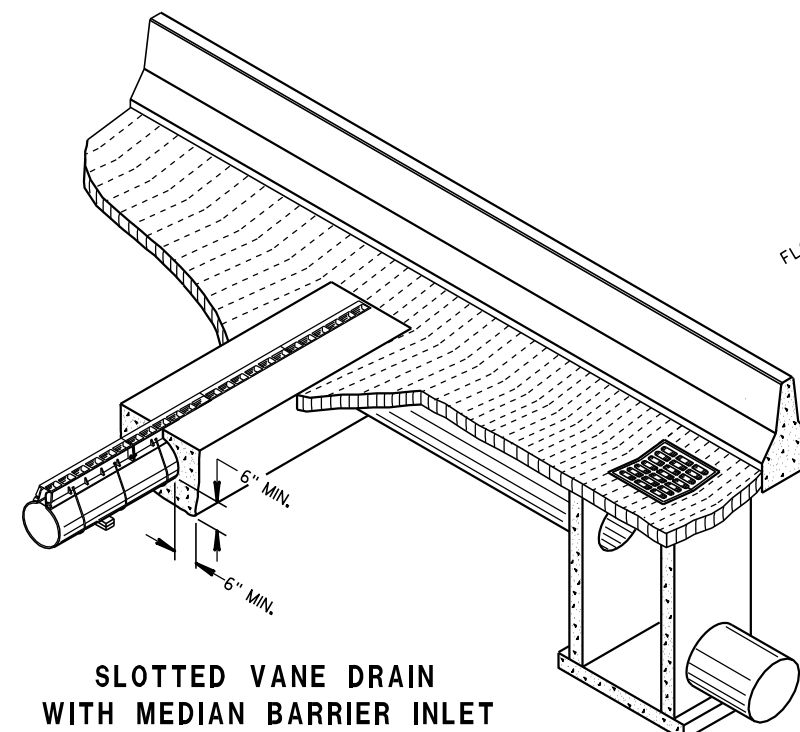
THE ANGLE OF THE DRAIN TO THE FLOW OF WATER SHOULD BE AS CLOSE TO 90° AS POSSIBLE.



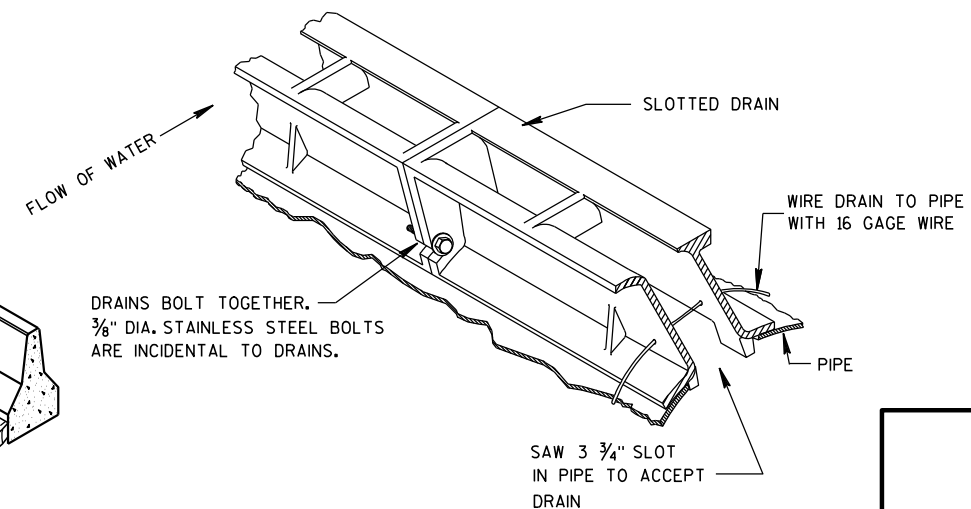
INSTALLATION OF SLOTTED VANE DRAIN



**SLOTTED VANE DRAIN
WITH CURB INLET**



**SLOTTED VANE DRAIN
WITH MEDIAN BARRIER INLET**



ISOMETRIC VIEW

SLOTTED VANE DRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

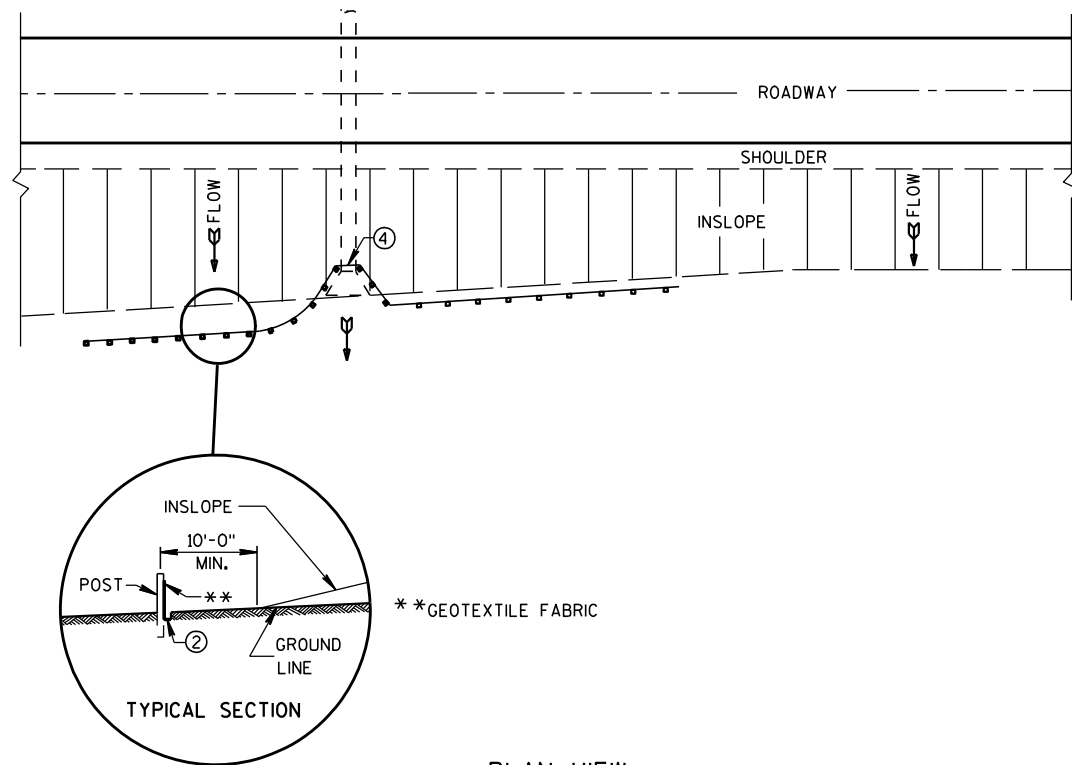
APPROVED

6/13/00
DATE

FHWA

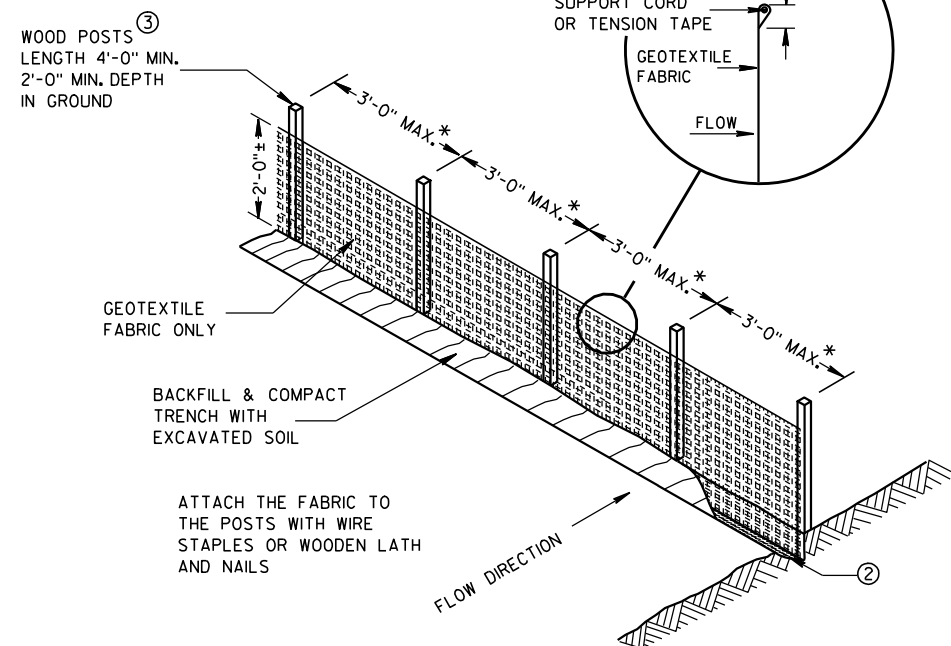
/S/ Rory L. Rhinehart
CHIEF ROADWAY DEVELOPMENT ENGINEER

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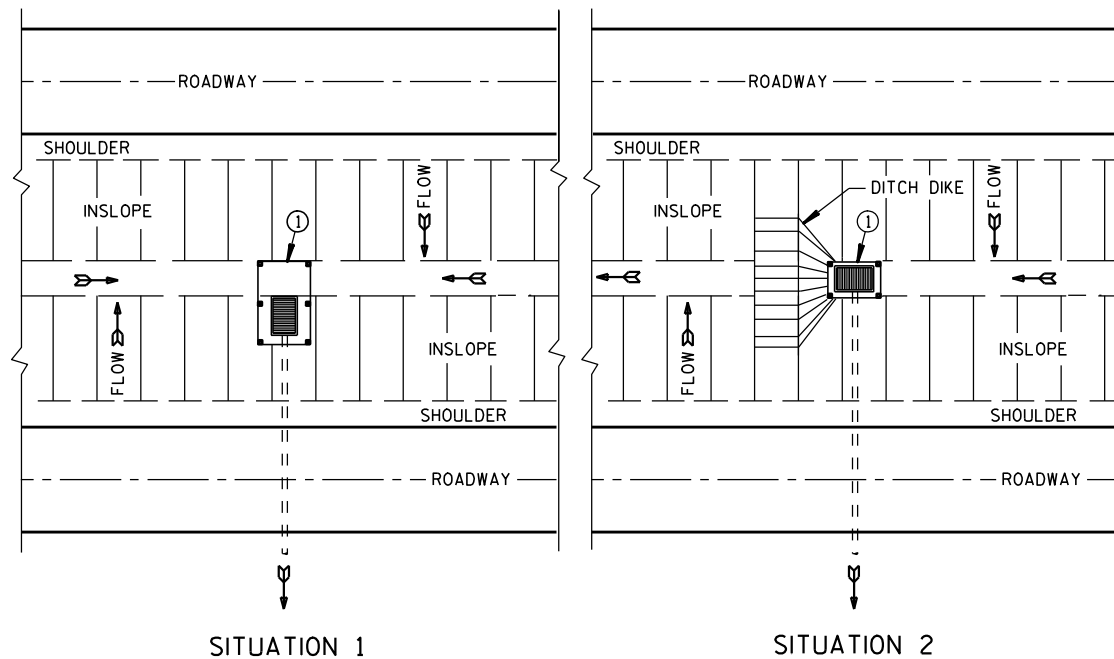
TYPICAL APPLICATION OF SILT FENCE

NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS



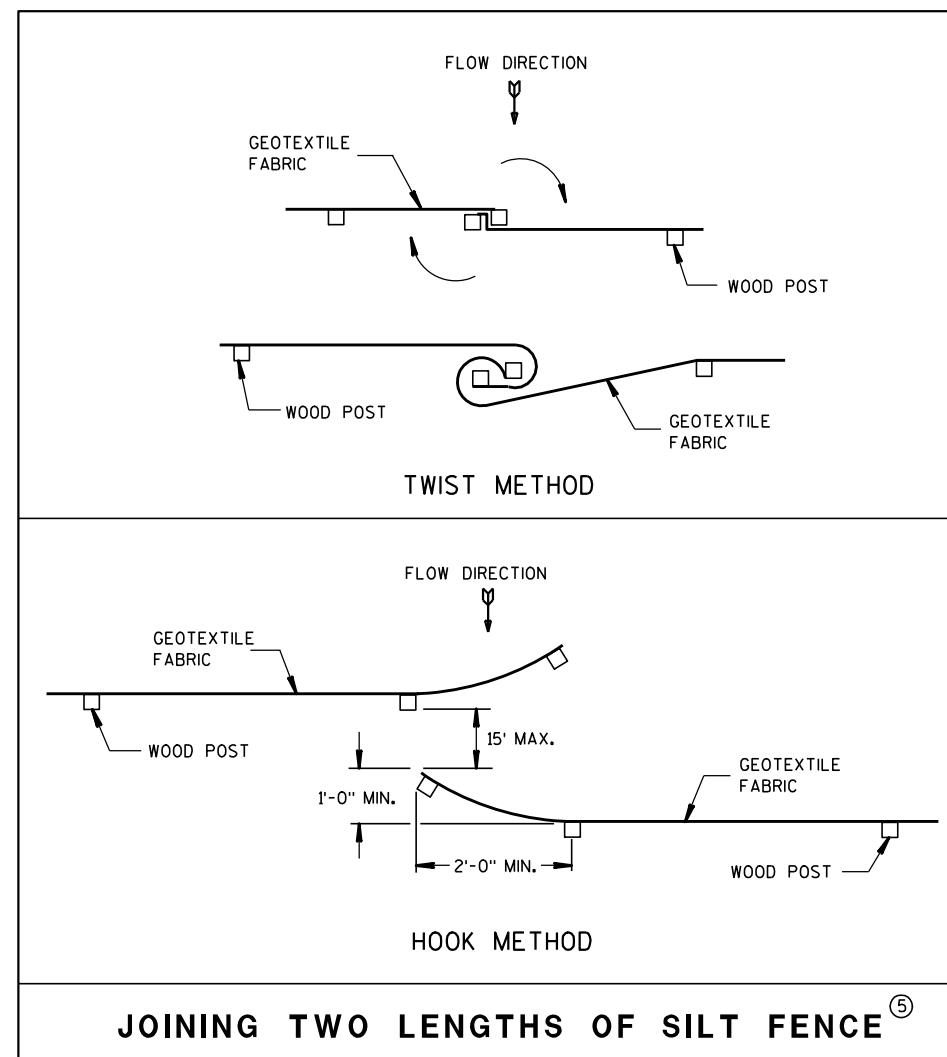
*NOTE: 8'-0" POST SPACING ALLOWED IF A
WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE



PLAN VIEW

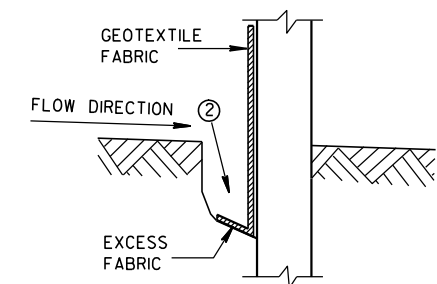
SILT FENCE AT MEDIAN SURFACE DRAINS



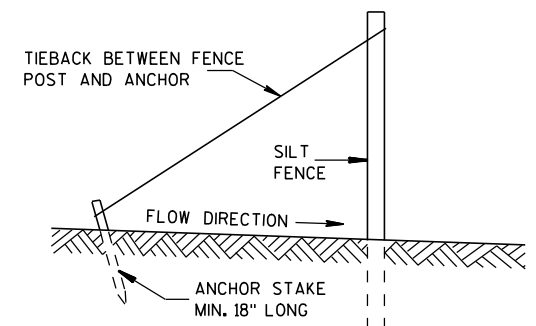
GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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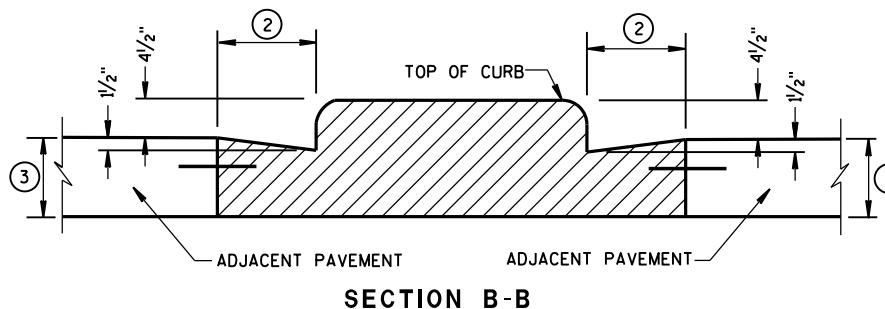
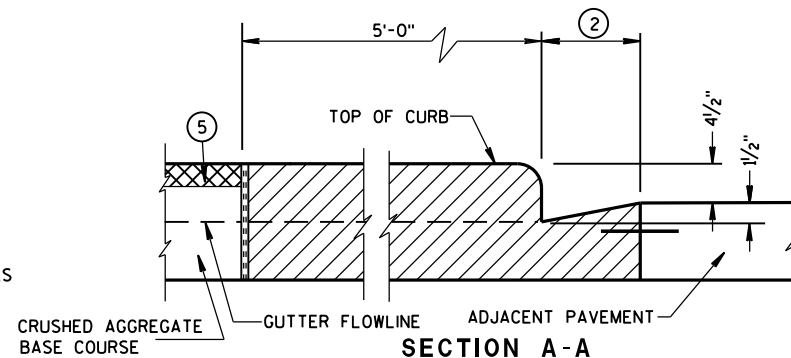
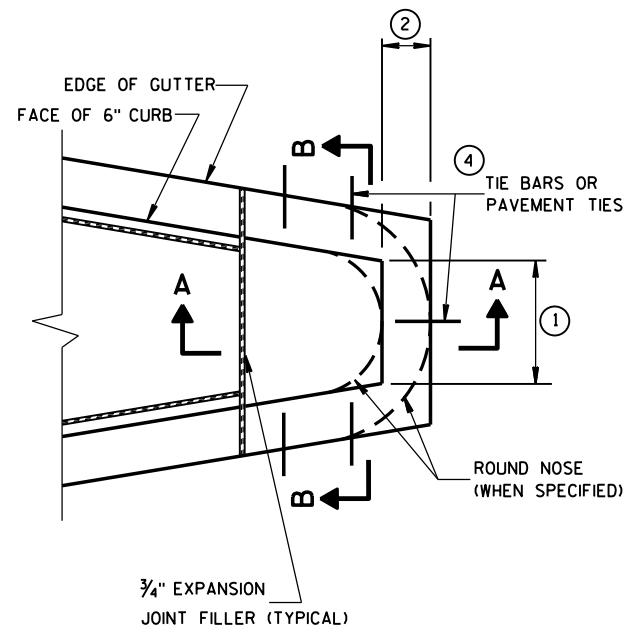
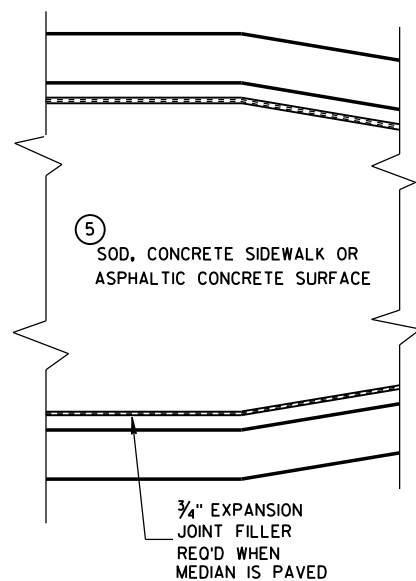
4-29-05

DATE

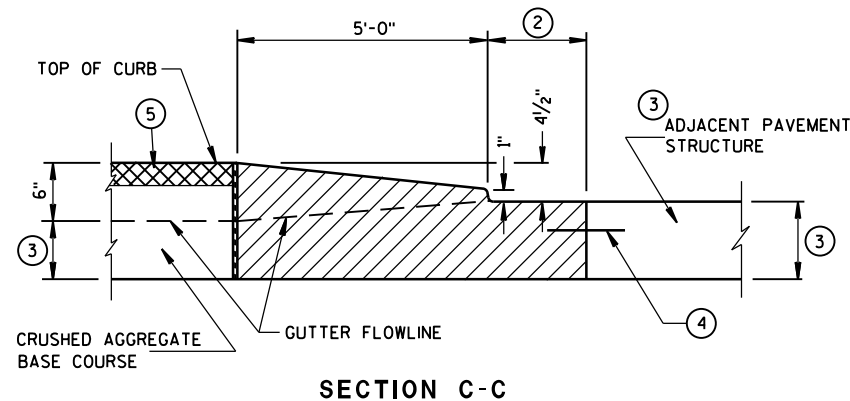
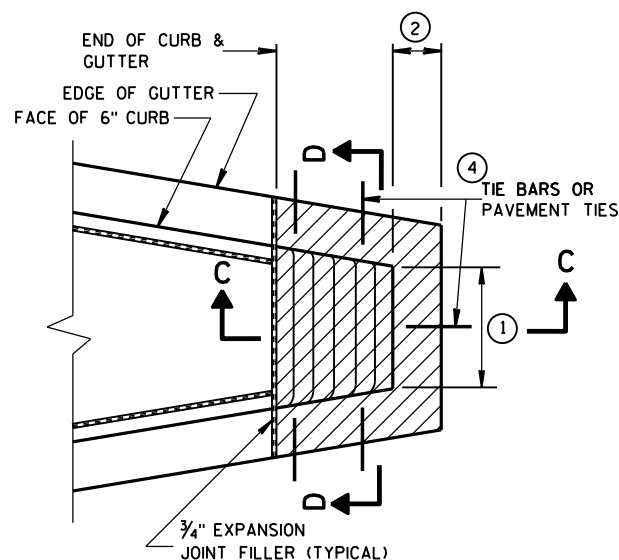
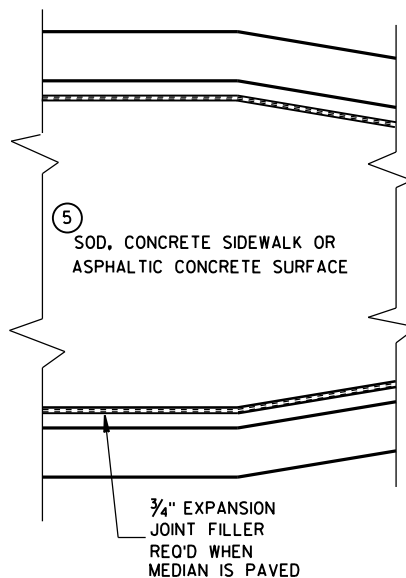
FHWA

/S/ Beth Conn
CHIEF ROADWAY DEVELOPER

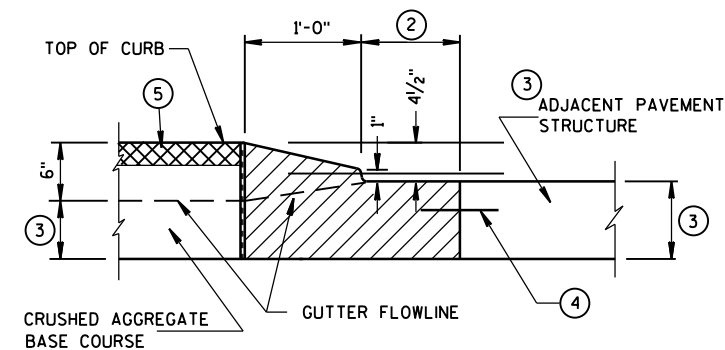
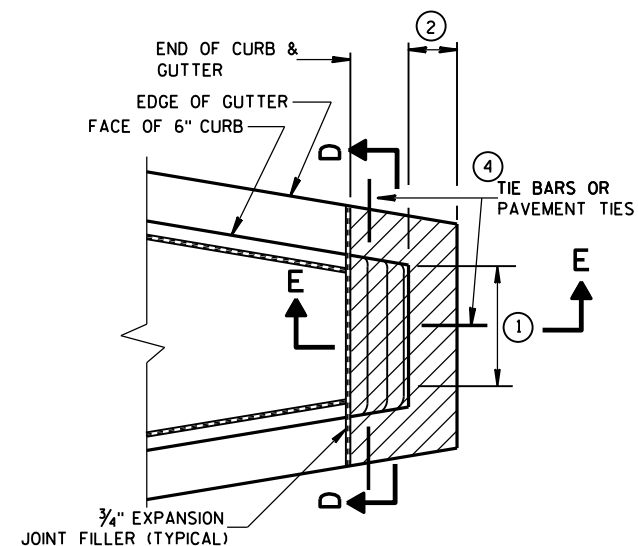
ENGINEER



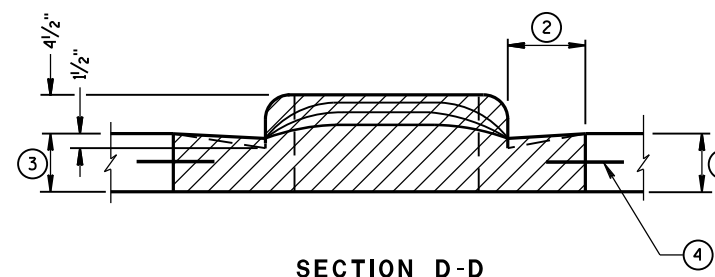
CONCRETE MEDIAN BLUNT NOSE DETAIL



CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN SLOPED NOSE TYPE 2



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).
- ② WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.
- ③ DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:
 - (1) NEW OR EXISTING CONCRETE PAVEMENT.
 - (2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.
 - (3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

- ④ TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

- ⑤ SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

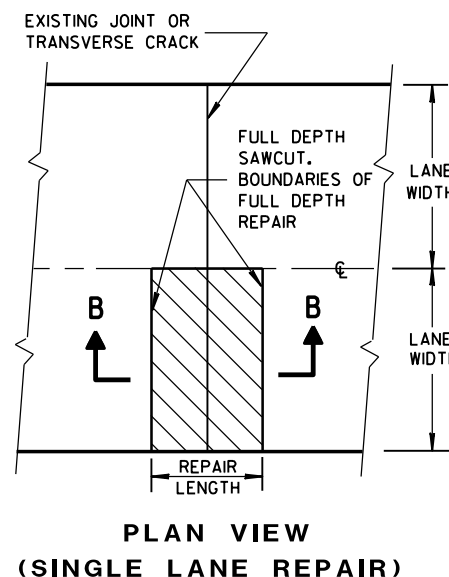
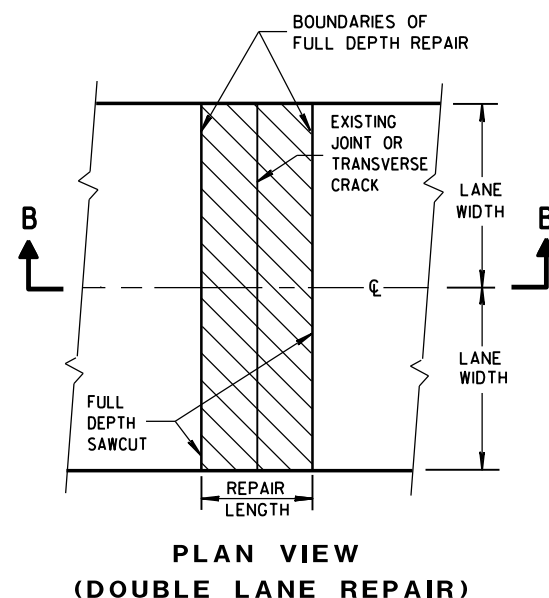
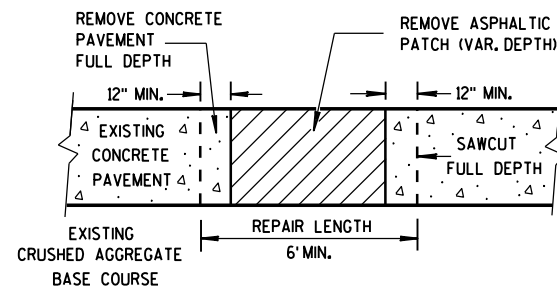
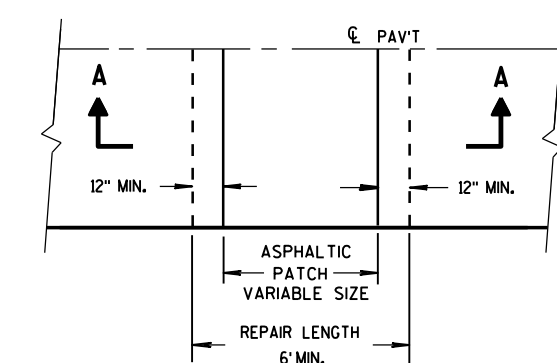
6/8/2006

DATE

FHWA

/S/ Jerry H. Zoag
ROADWAY STANDARDS D 127
ENGINEER

4T



FULL DEPTH CONCRETE PAVEMENT REMOVAL

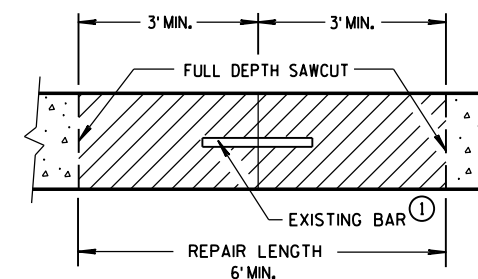
GENERAL NOTES

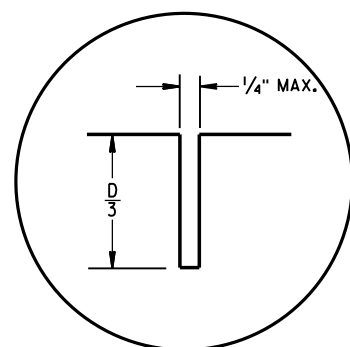
SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

PROVIDE A 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK IN THE SAME LANE.

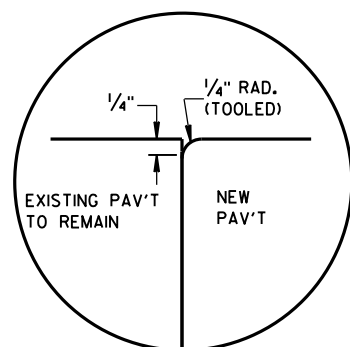
THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

① DOWEL BARS MIGHT NOT EXIST.



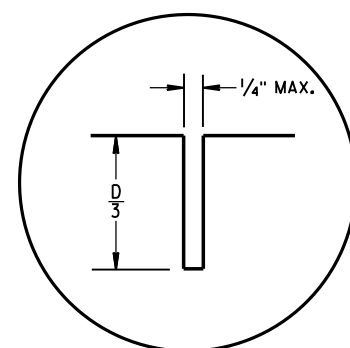


C1

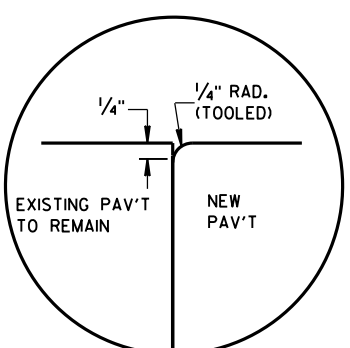


C2

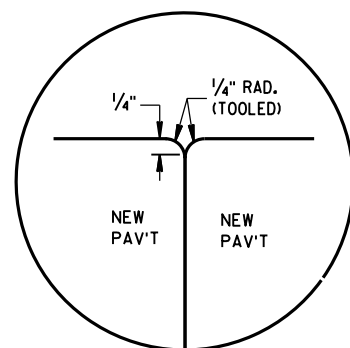
TRANSVERSE JOINTS



L1



L2



L3

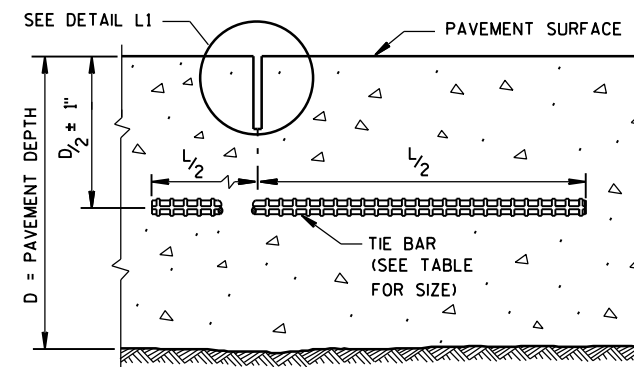
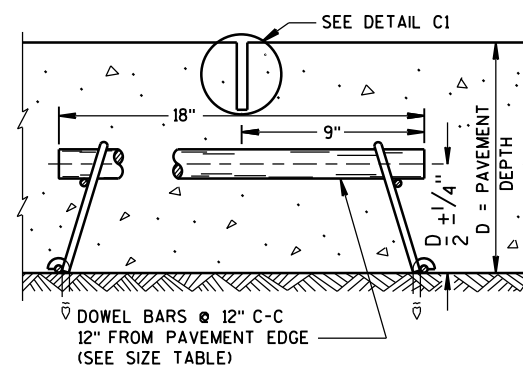
LONGITUDINAL JOINTS

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

SECTION C-C
SAWED LONGITUDINAL JOINTSECTION F-F
CONTRACTION JOINT

GENERAL NOTES

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

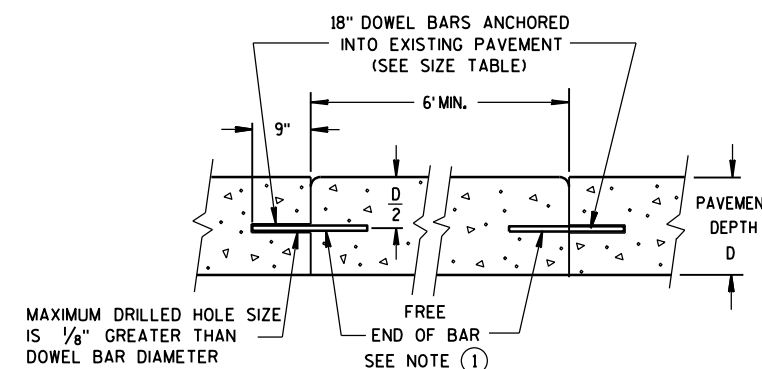
CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

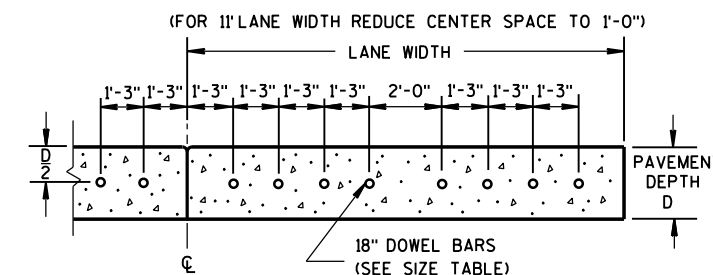
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

- ① APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



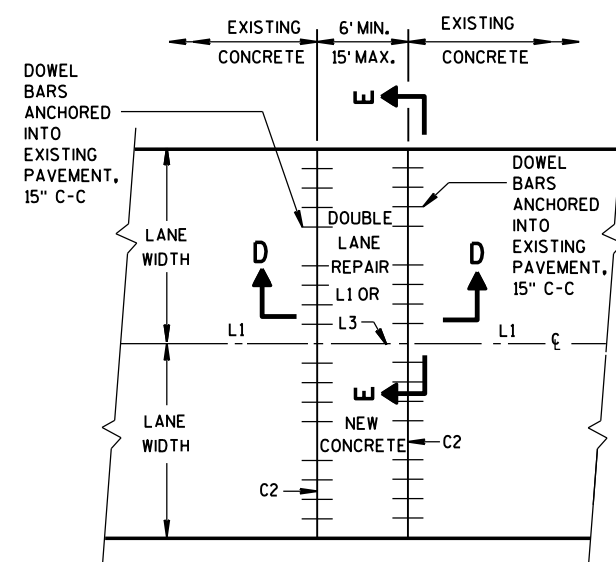
SECTION D-D

SECTION E-E
DRILLED DOWEL BAR CONSTRUCTION JOINTPAVEMENT DEPTH, DOWEL BAR SIZE
AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	DRILLED DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2", 6", 6 1/2"	NONE	NONE	12'
7", 7 1/2"	1"	1"	14'
8", 8 1/2"	1 1/4"	1 1/4"	15'
9", 9 1/2"	1 1/4"	1 1/4"	15'
10" & ABOVE	1 1/2"	1 1/4"	15'

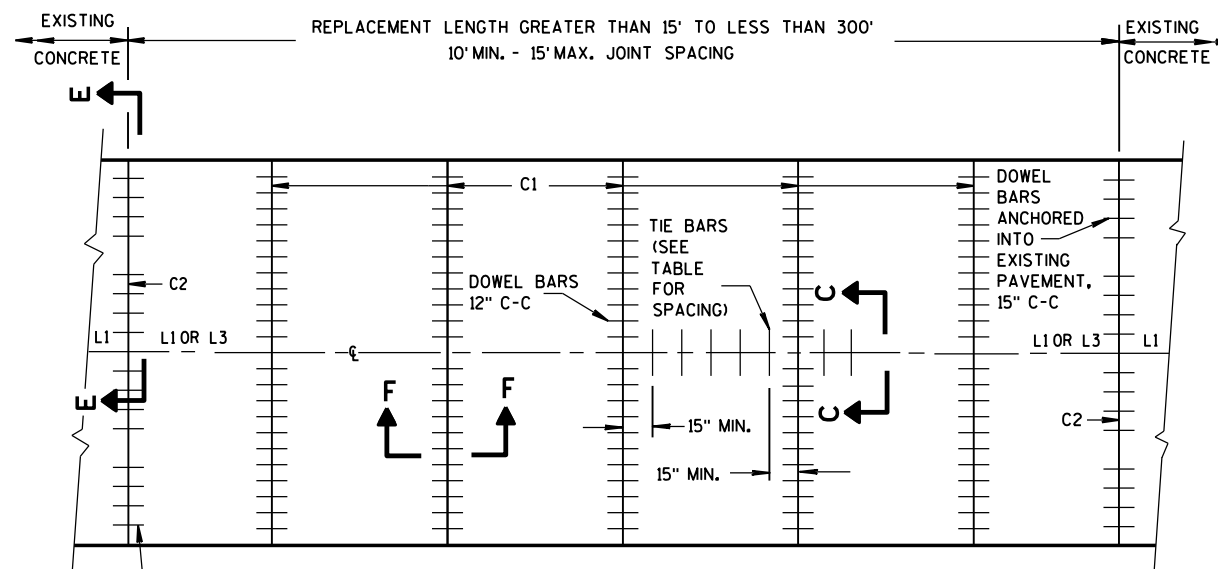
CONCRETE PAVEMENT
REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 129



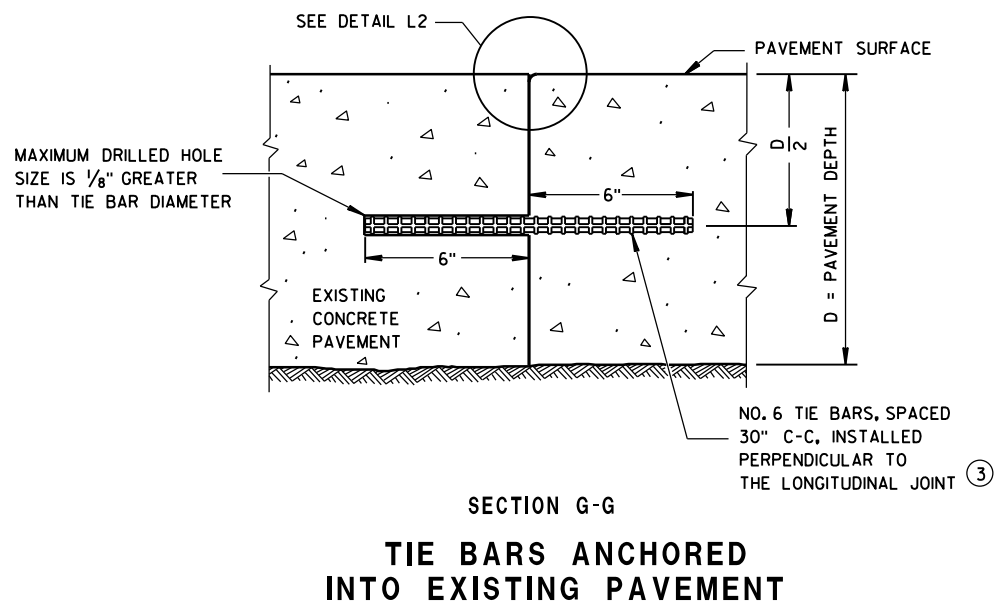
PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPAIR



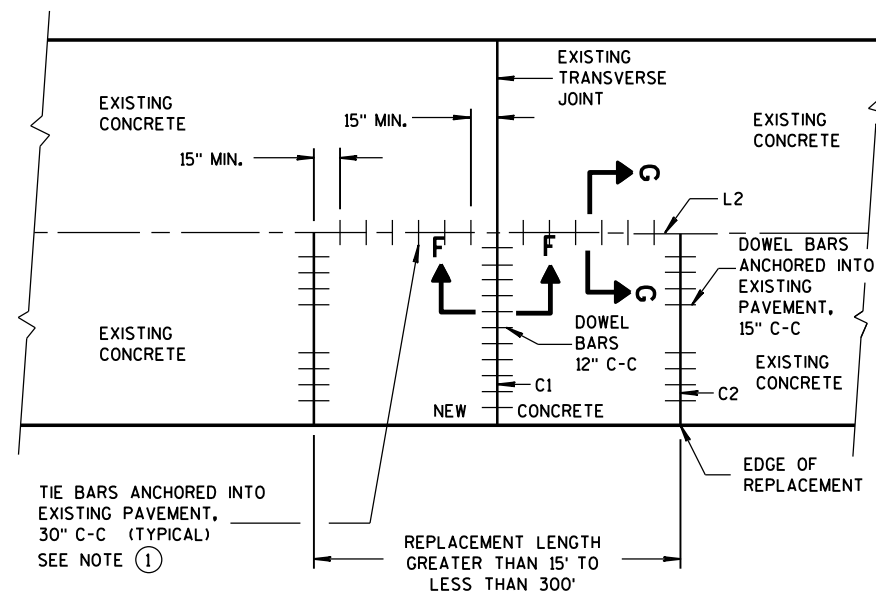
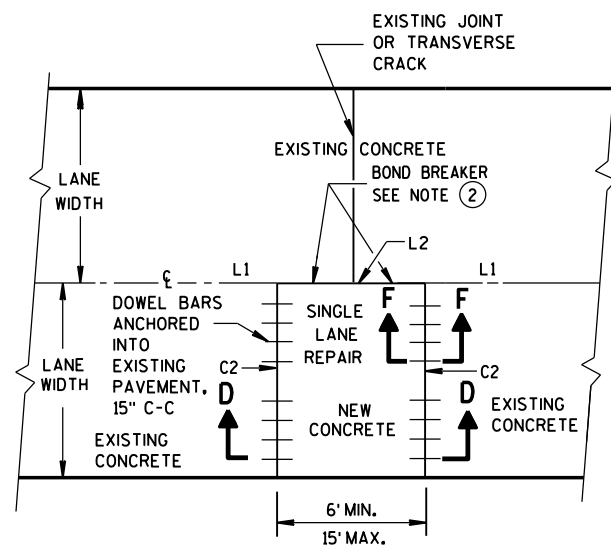
PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPLACEMENT



GENERAL NOTES

- ① WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
- ② USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.
- ③ ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

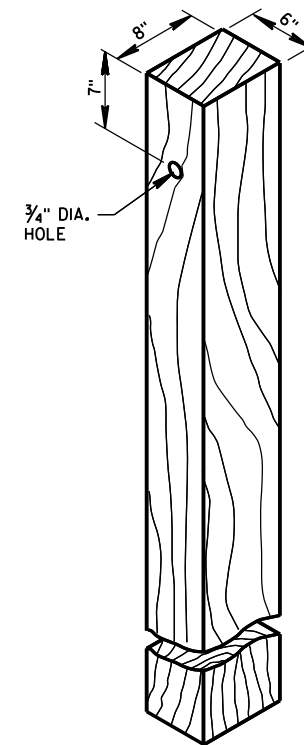
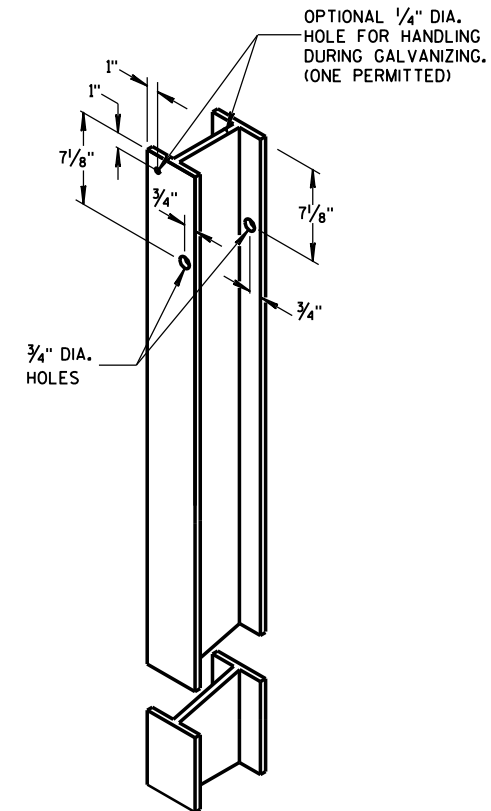
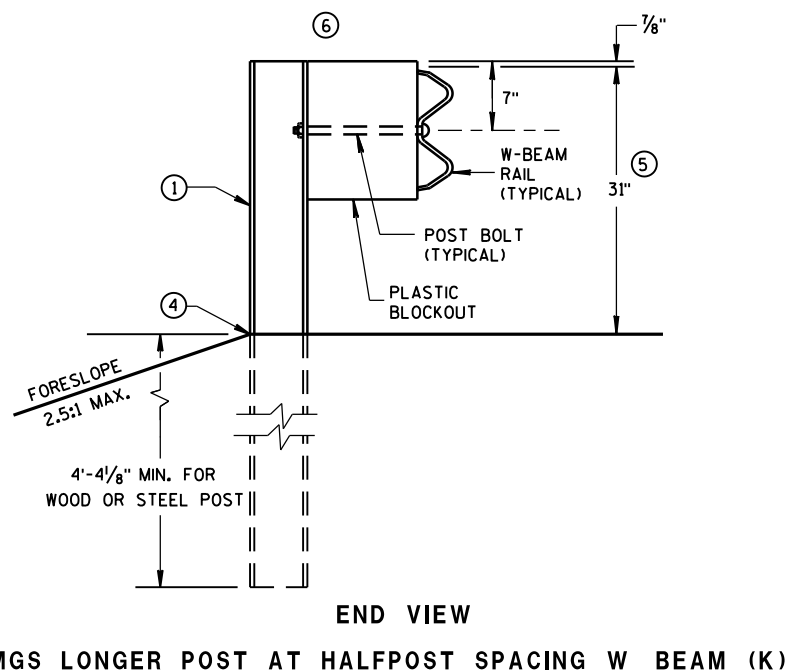
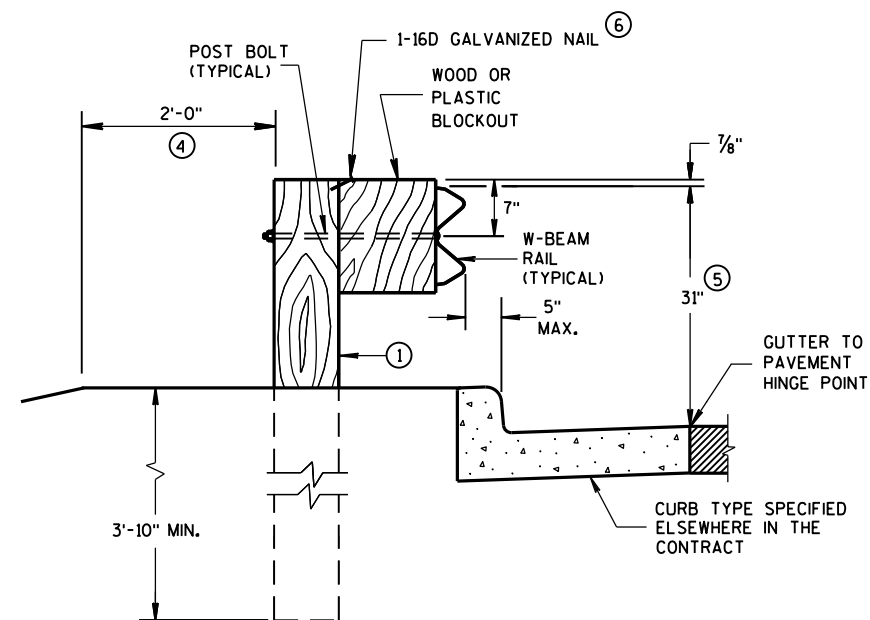
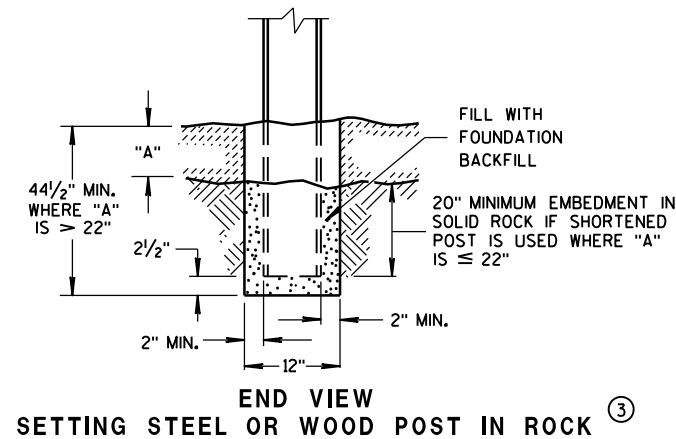


**CONCRETE PAVEMENT
REPAIR AND REPLACEMENT**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

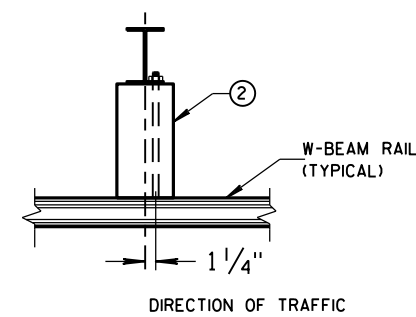
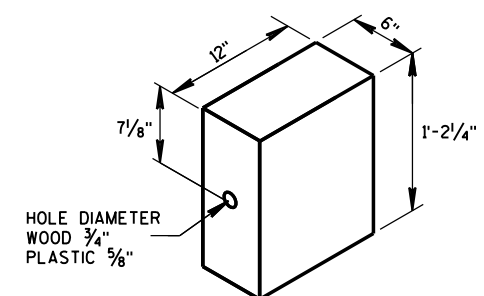
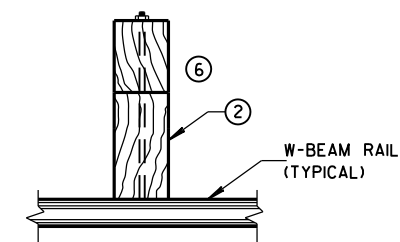
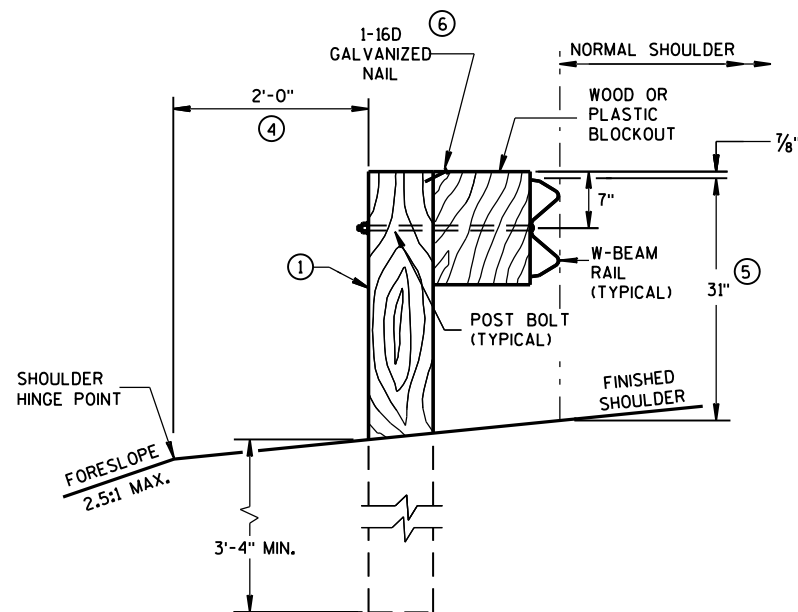
APPROVED
March, 2017 /S/ Peter Kemp, P.E.
DATE PAVEMENT SUPER 130
FHWA

- ① WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- ③ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2 INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AND INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- ④ WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- ⑤ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS $\pm 1"$. FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 3/4" TO 32".
- ⑥ WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



**STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①**

**WOOD POST
(6" X 8") NOMINAL ①**

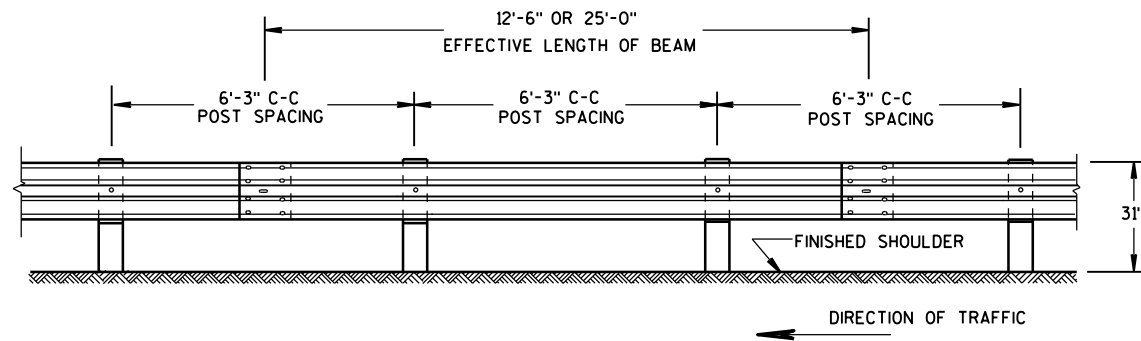


**WOOD OR
PLASTIC BLOCKOUT ②**

**PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM**

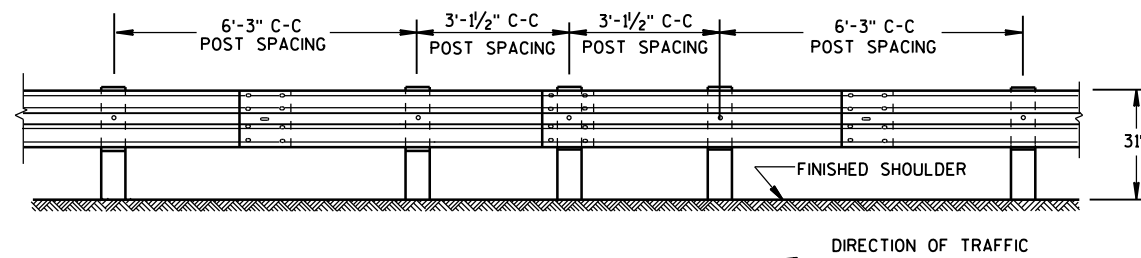
**MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 131



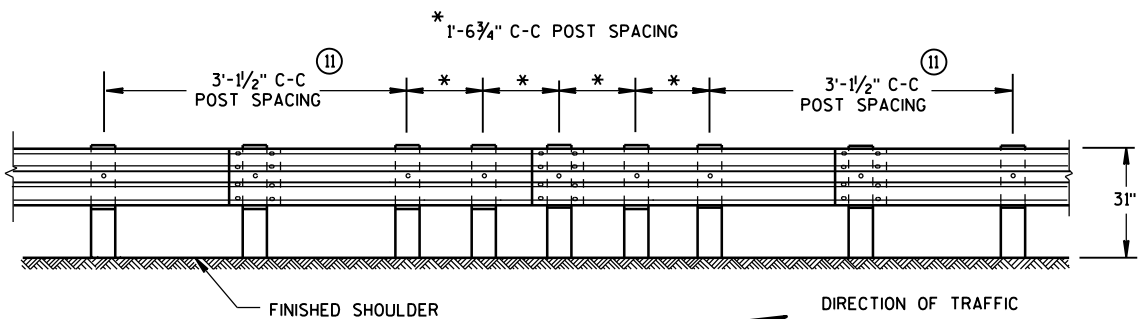
FRONT VIEW

POST SPACING STANDARD INSTALLATION



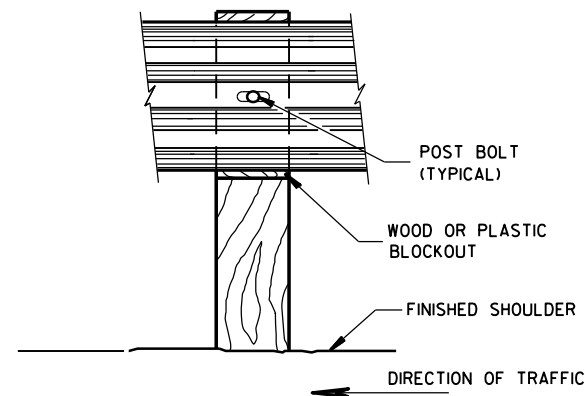
FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

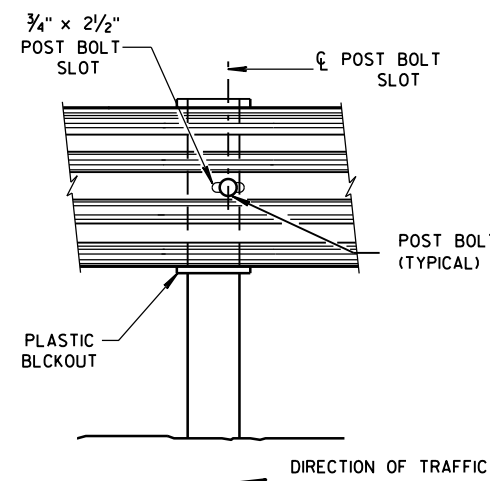


FRONT VIEW

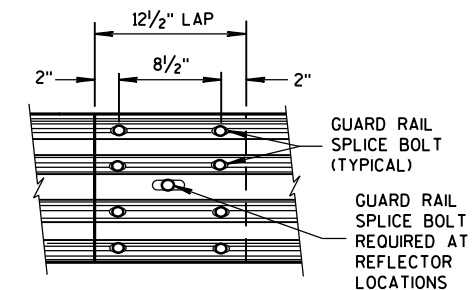
QUARTER POST SPACING (QS)



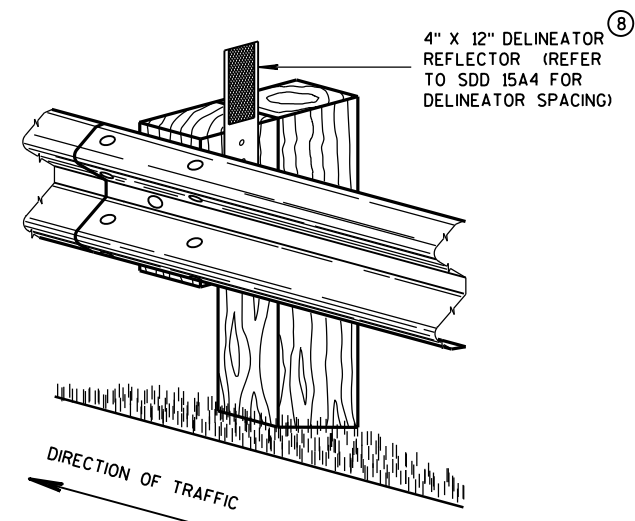
FRONT VIEW AT WOOD POST



FRONT VIEW AT STEEL POST



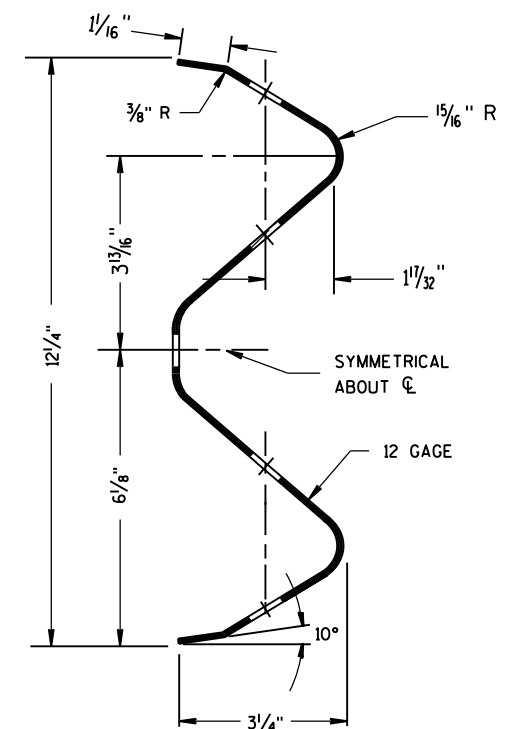
FRONT VIEW
MID-SPAN BEAM SPLICE



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

GENERAL NOTES

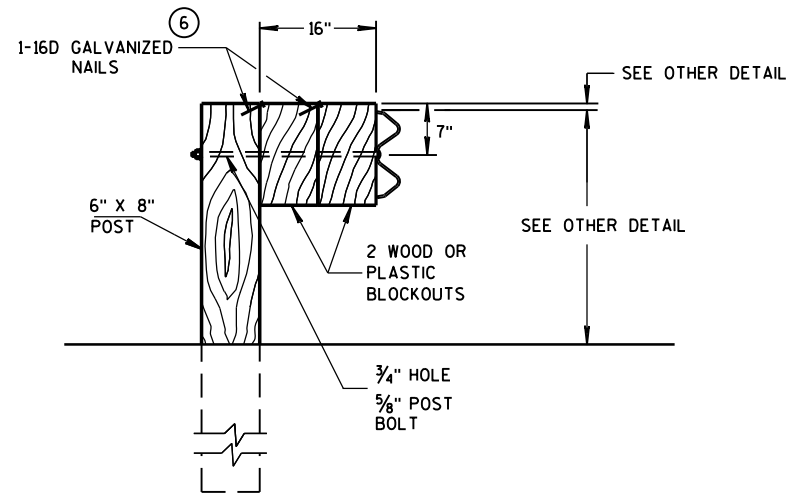
- ⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.
 - ⑪ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.
- POST BOLTS ARE A $\frac{5}{8}$ " DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES $\frac{3}{4}$ " DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND $\frac{5}{8}$ " DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.
- GUARD RAIL SPLICE BOLTS ARE A $\frac{5}{8}$ " DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES $\frac{3}{4}$ " DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



SECTION THRU W-BEAM RAIL

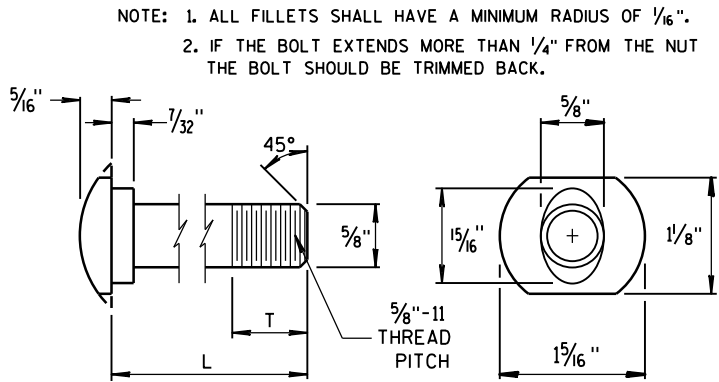
MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 132

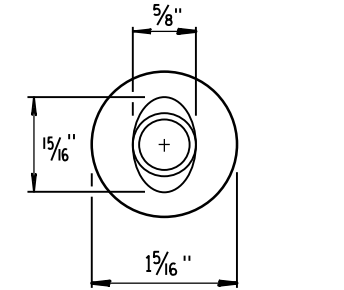


DETAIL FOR 16" BLOCKOUT DEPTH

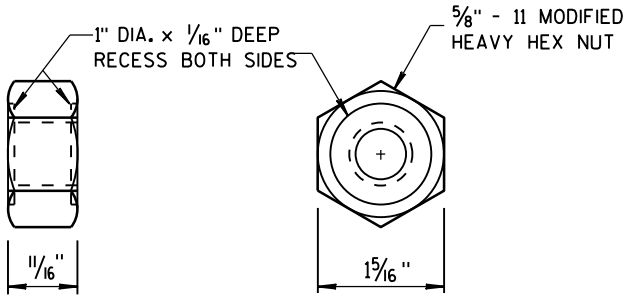
IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



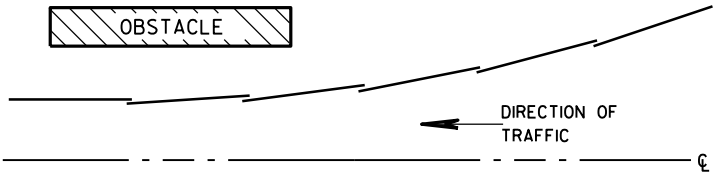
POST BOLT TABLE



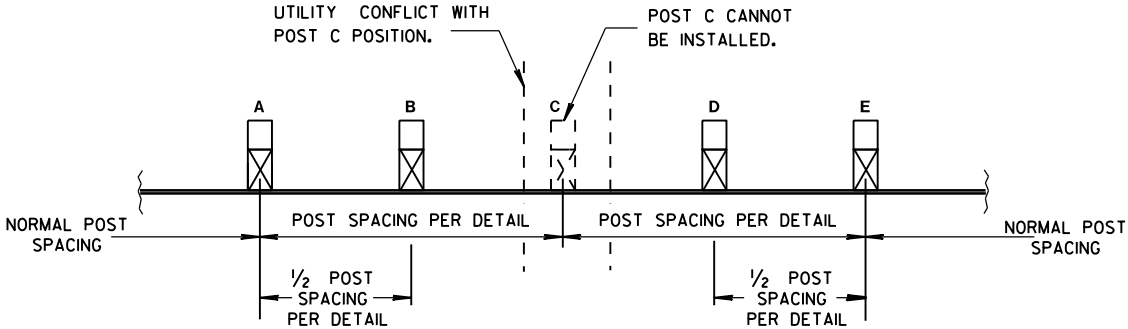
ALTERNATE BOLT HEAD



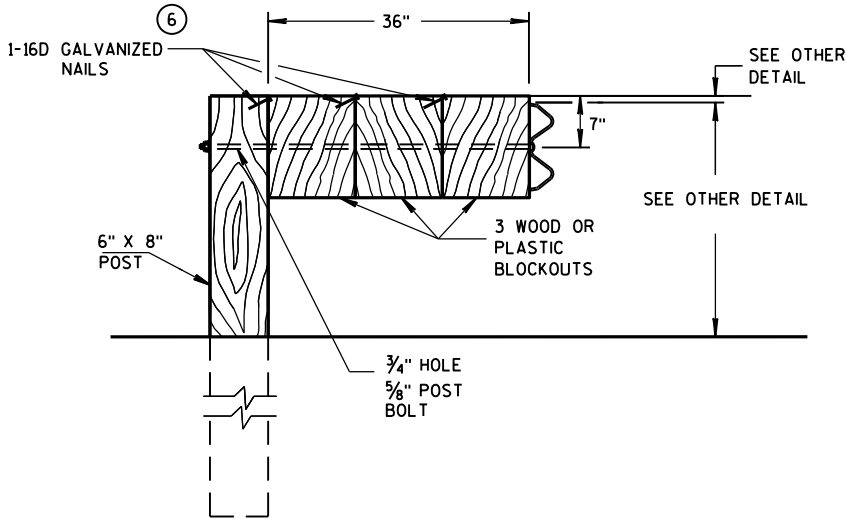
POST BOLT, SPLICE BOLT AND RECESS NUT



PLAN VIEW
BEAM LAPPING DETAIL



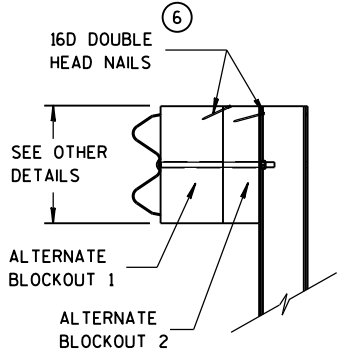
POST DRIVING FOR CONTINUOUS
UNDERGROUND OBSTRUCTION



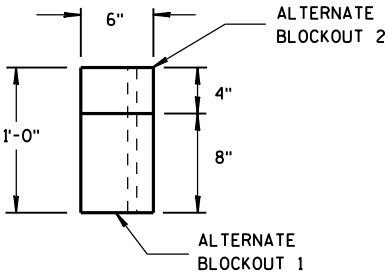
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



SIDE VIEW



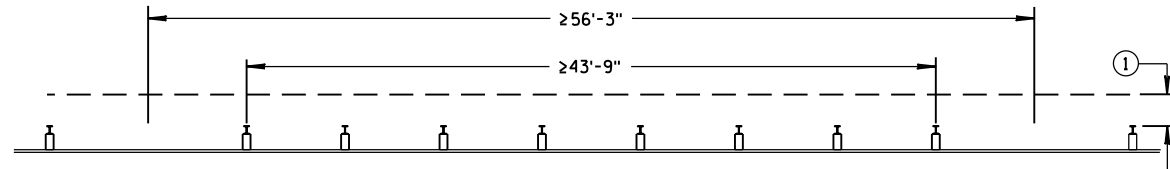
TOP VIEW

ALTERNATE WOOD
BLOCKOUT DETAIL

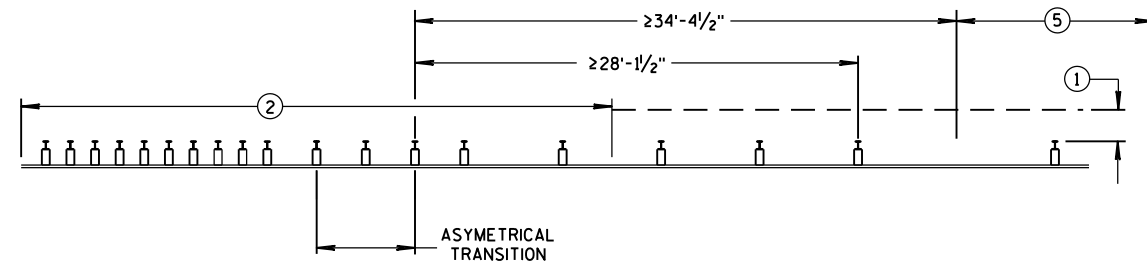
MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

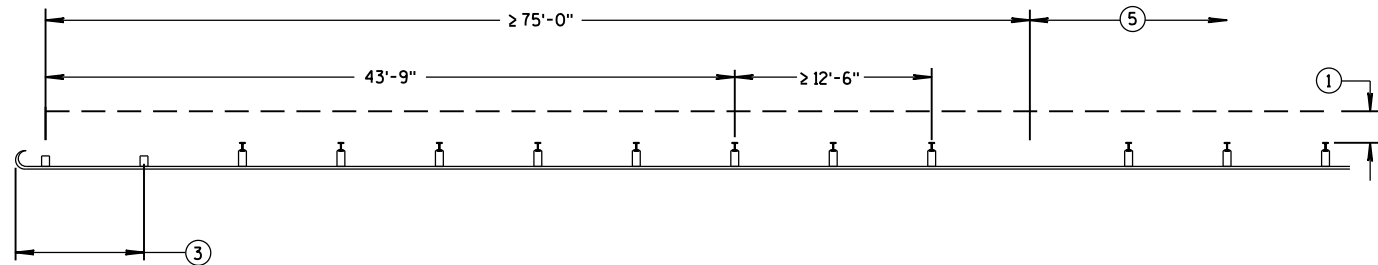
133



MISSING POST IN NORMAL BEAM GUARD RUN

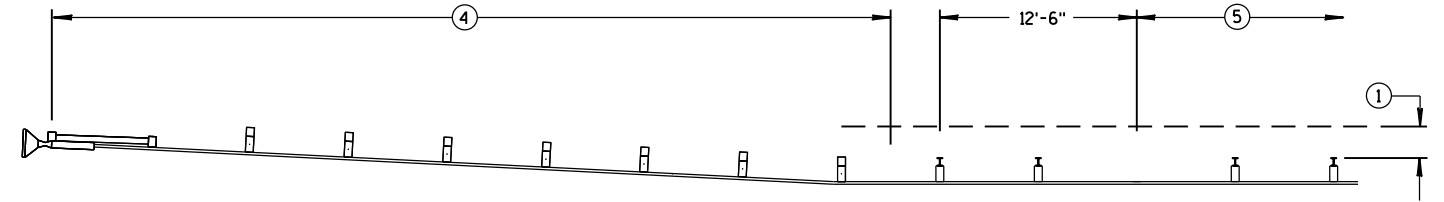


MISSING POST NEAR APPROACH THRIE BEAM TRANSITION

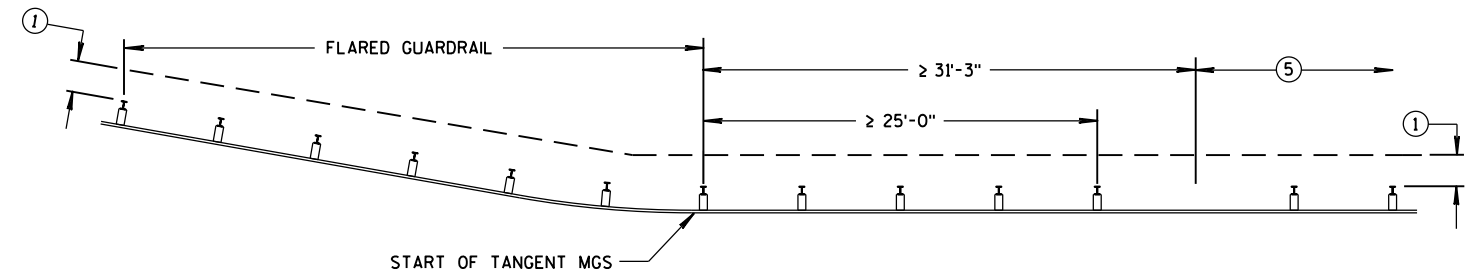


MISSING POST IN NORMAL BEAM GUARD RUN
NEAR TYPE 2 TERMINAL

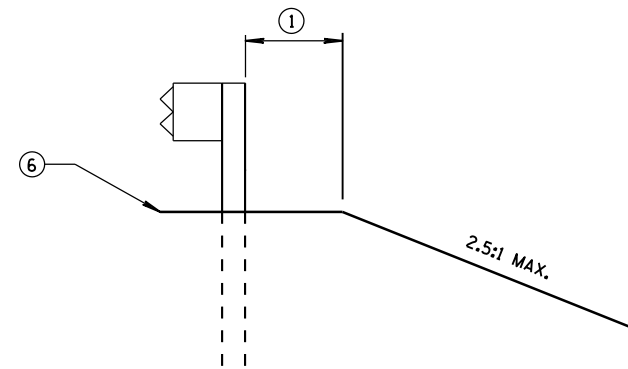
- ① MINIMUM OF 2 FEET OF GRADING BEHIND POST.
- ② SEE SDD 14B45 FOR MORE DETAILS.
- ③ SEE SDD 14B47 FOR MORE DETAILS.
- ④ SEE SDD 14B44 FOR MORE DETAILS.
- ⑤ SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.
- ⑥ SEE PLAN FOR SHOULDER DESIGN.



MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



MISSING POST IN NORMAL BEAM GUARD RUN
NEAR FLARED BEAM GUARD



CROSS SECTION VIEW

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017

DATE

FHWA

/S/ Rodney Taylor

ROADWAY STANDARDS (134

UNIT SUPERVISOR

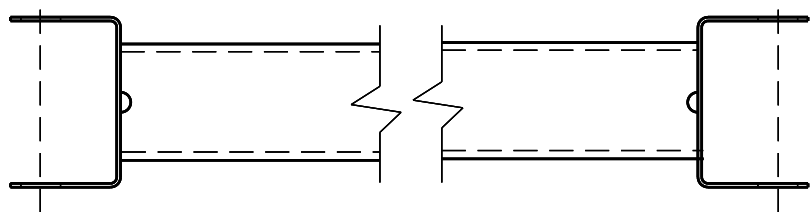
S.D.D. 14 B 42-5d

6

- S.D.D. 14 B 44-3a**

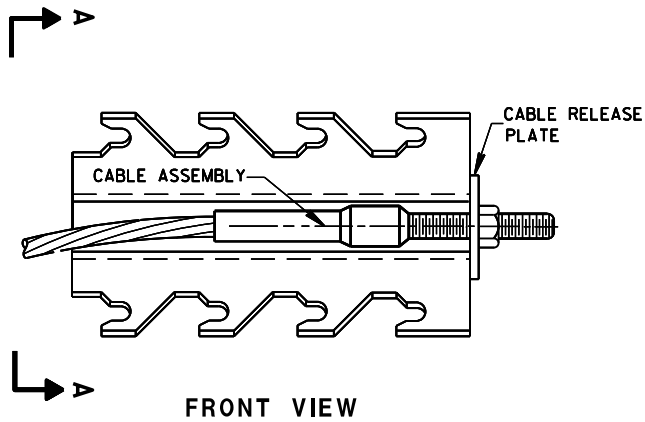
6





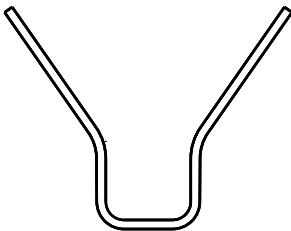
GENERIC GROUND STRUT

9 H



GENERIC ANCHOR CABLE BOX

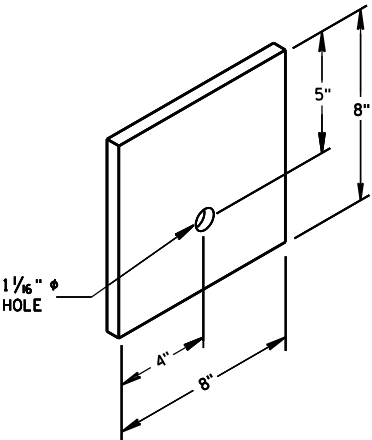
8 H



SECTION A-A

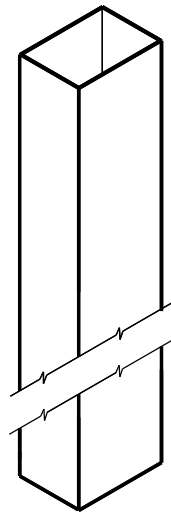
BILL OF MATERIALS

PART NO.	DESCRIPTION
MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.	
①	UPPER POST NO.1 6" X 6" TUBE
②	LOWER POST NO.1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2

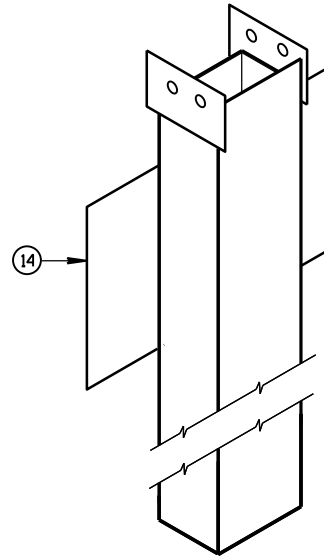


BEARING PLATE

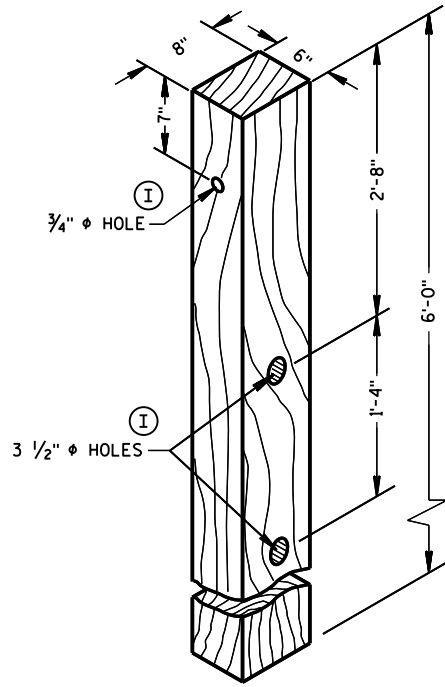
6



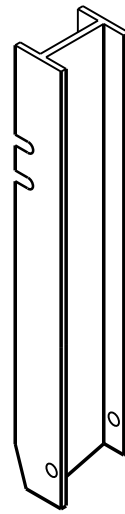
UPPER POST NO. 1⁽¹⁾



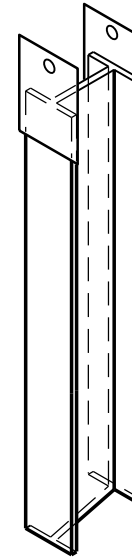
LOWER POST NO. 1⁽²⁾



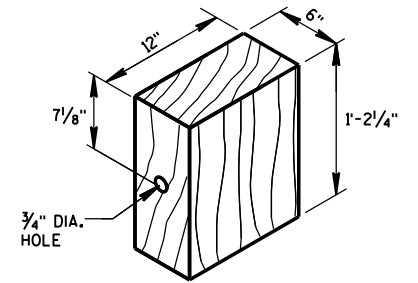
POSTS NUMBER 3-9
WOOD CRT POST⁽³⁾



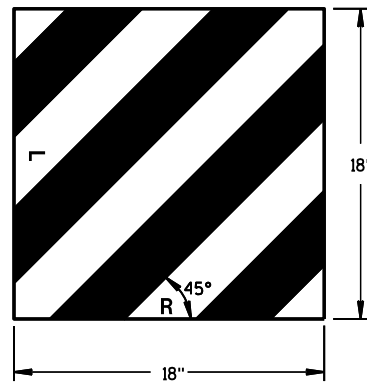
UPPER POST NO. 2⁽¹⁵⁾



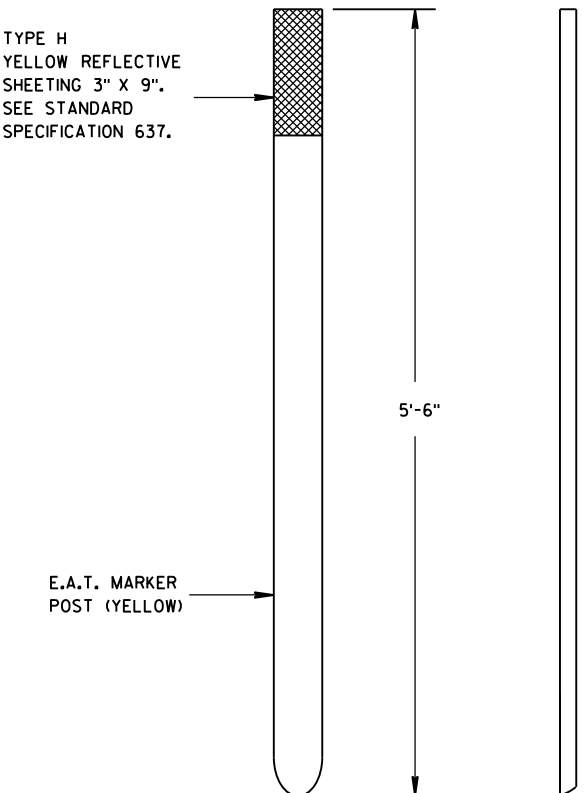
LOWER POST NO. 2⁽¹⁶⁾



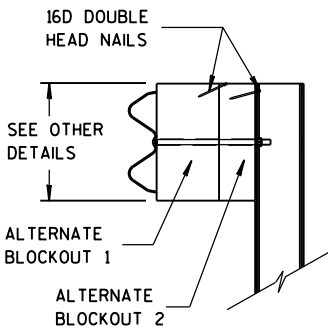
WOOD BLOCKOUT⁽⁴⁾
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



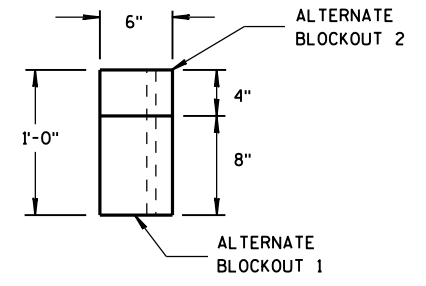
W5-59
REFLECTIVE SHEETING DETAIL^(H)



FRONT VIEW
SIDE VIEW
E.A.T. MARKER POST⁽¹³⁾

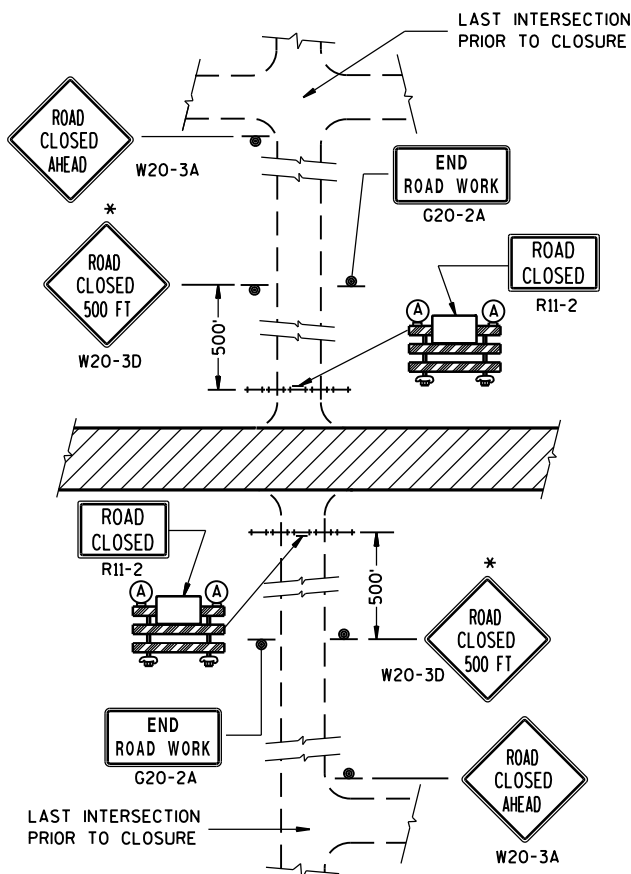


SIDE VIEW
ALTERNATE WOOD
BLOCKOUT DETAIL

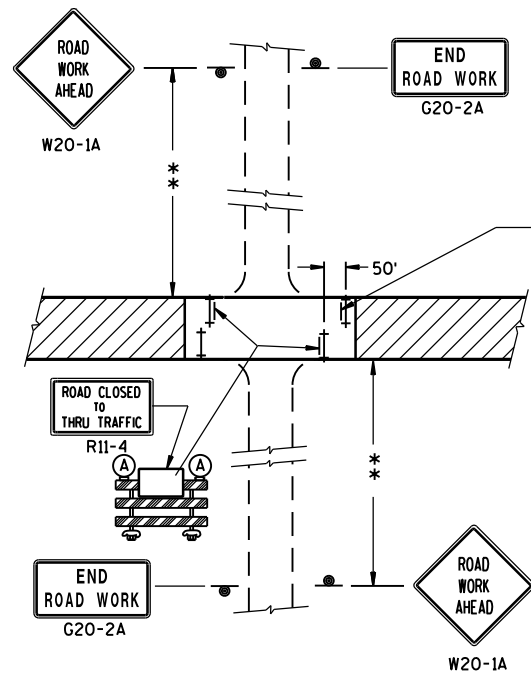


TOP VIEW

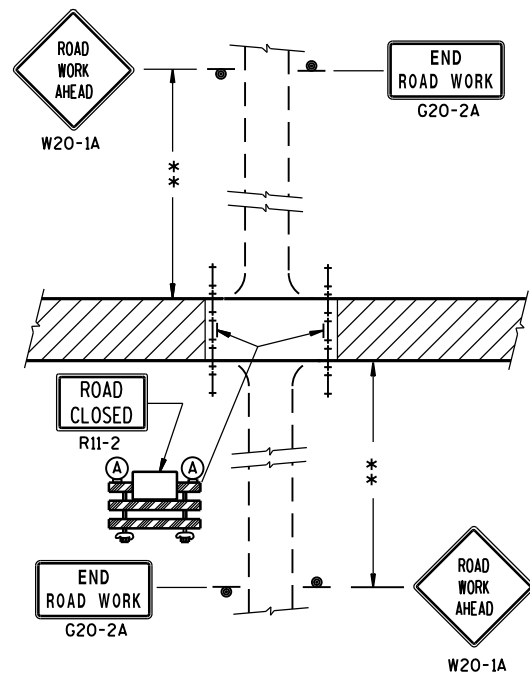
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
APPROVED	/S/ Rodney Taylor		
DATE	June 2017	ROADWAY STANDARDS	137
FHWA		UNIT SUPERVISOR	



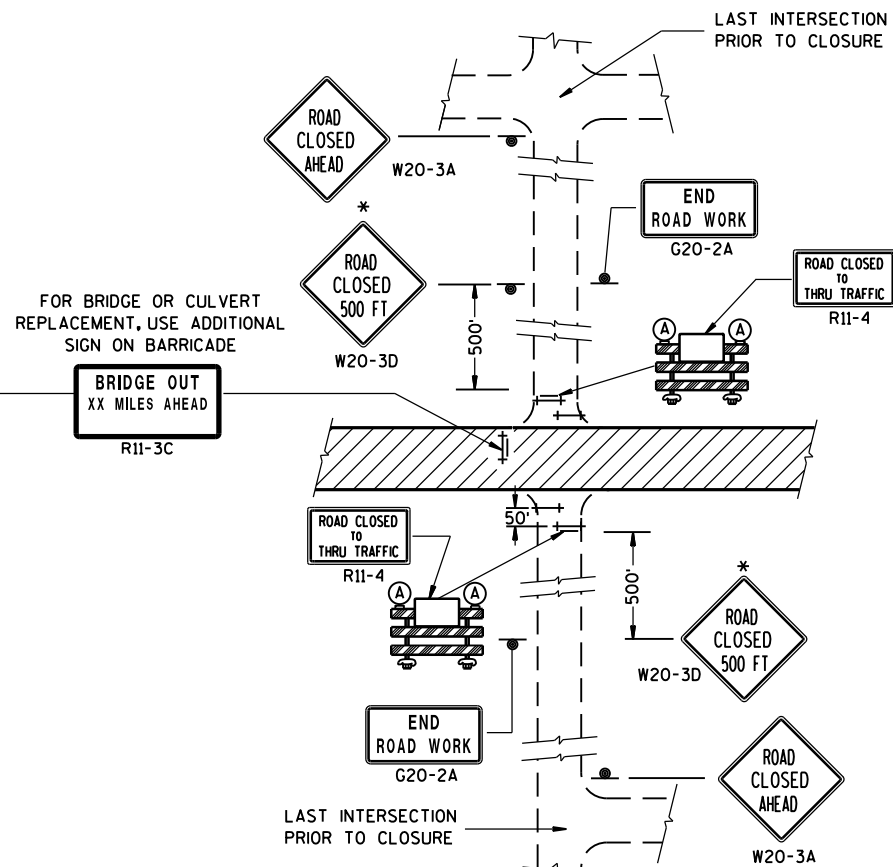
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30".

R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ⊢ TYPE III BARRICADE
- ⊢ TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- ▨ WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

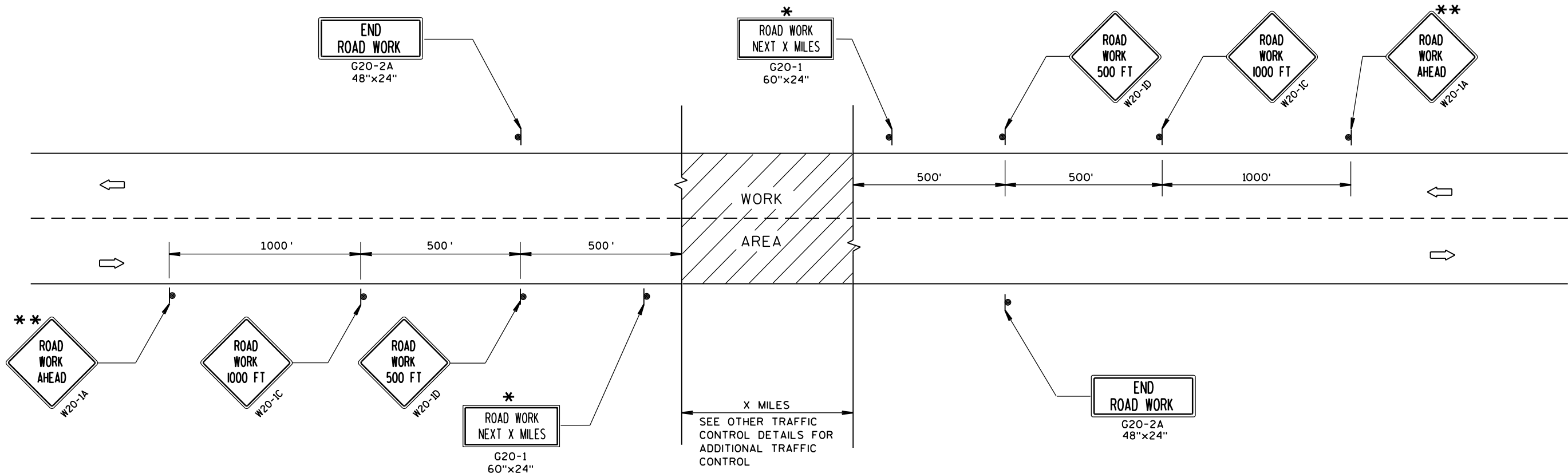
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENG 138

FHWA



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

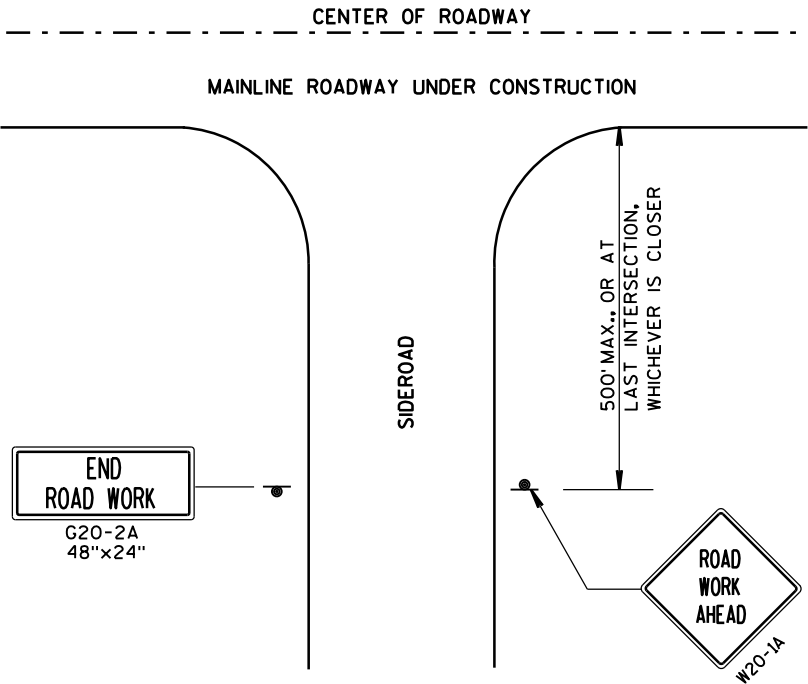
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



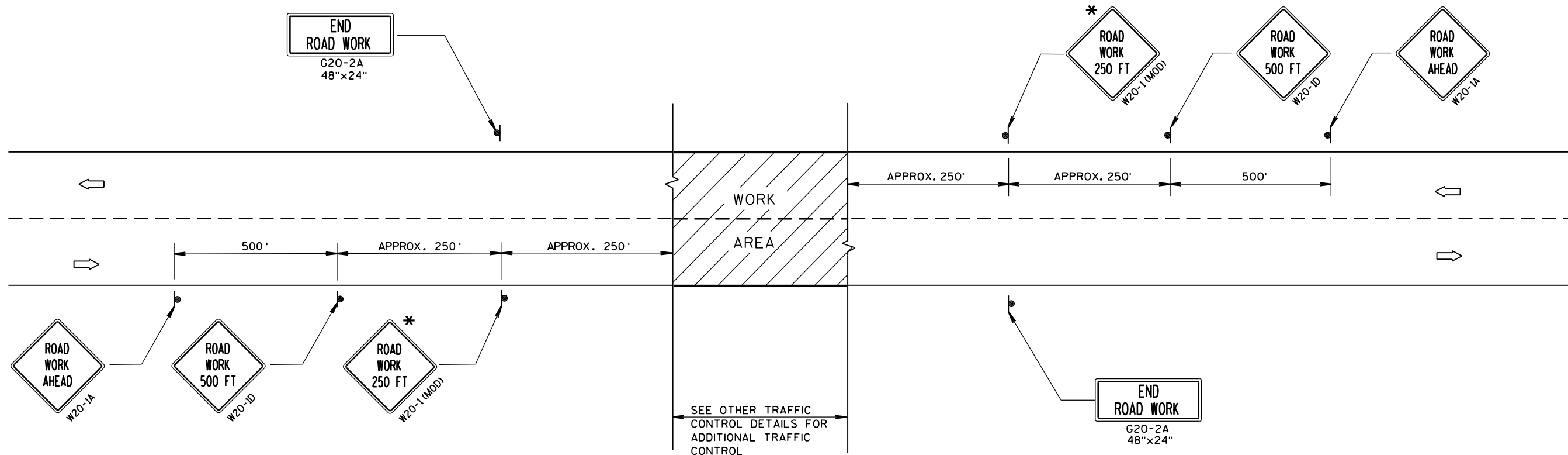
LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H.
OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2017 /S/ Andrew Heidtke
DATE WORK ZONE ENG 139
FHWA



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

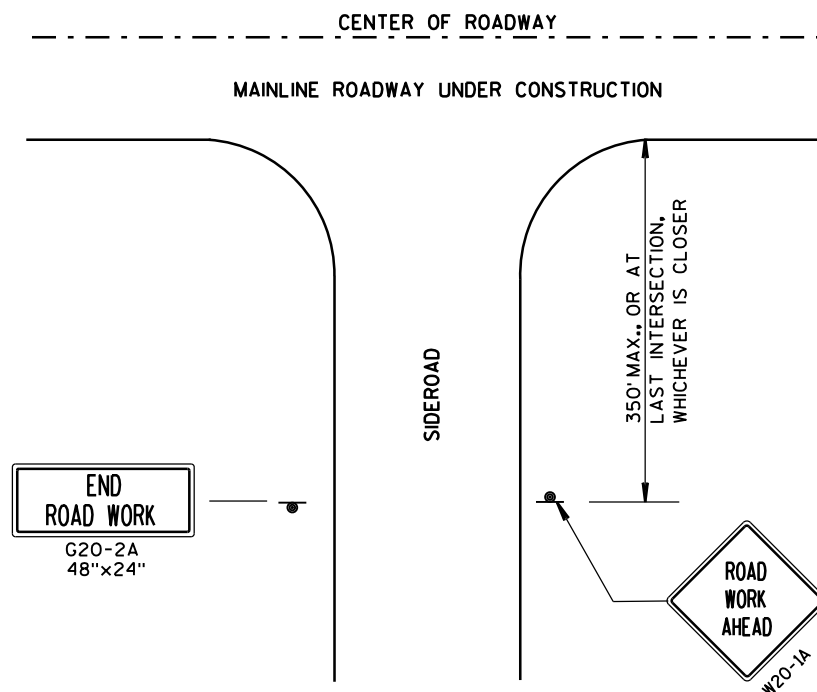
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

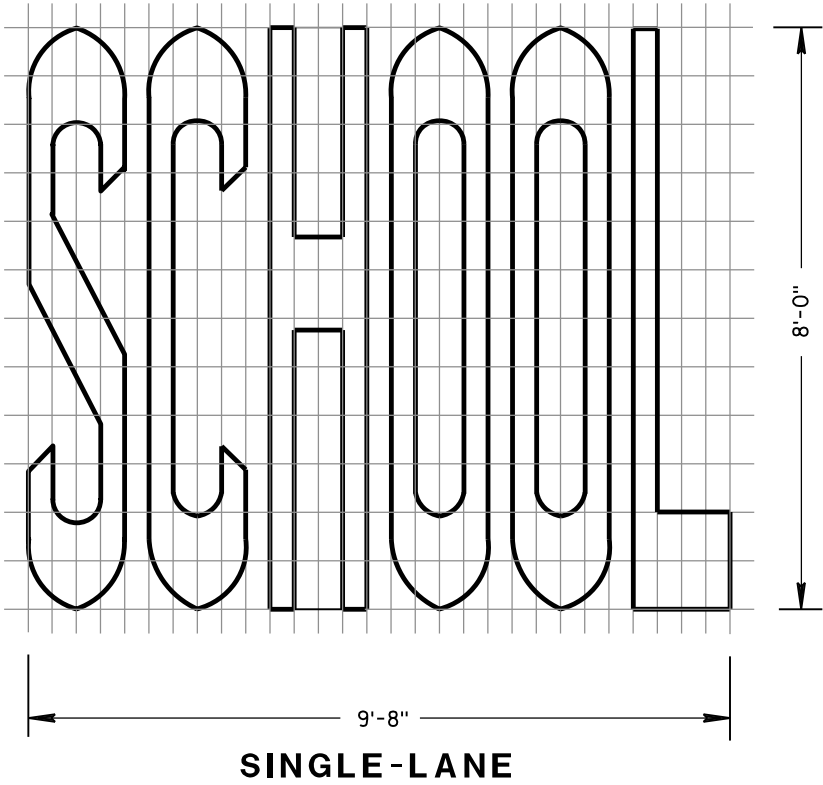
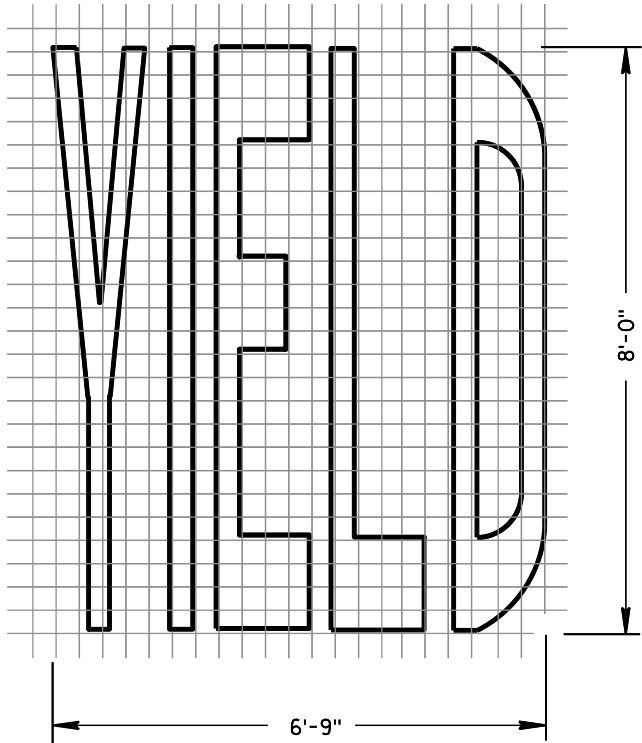
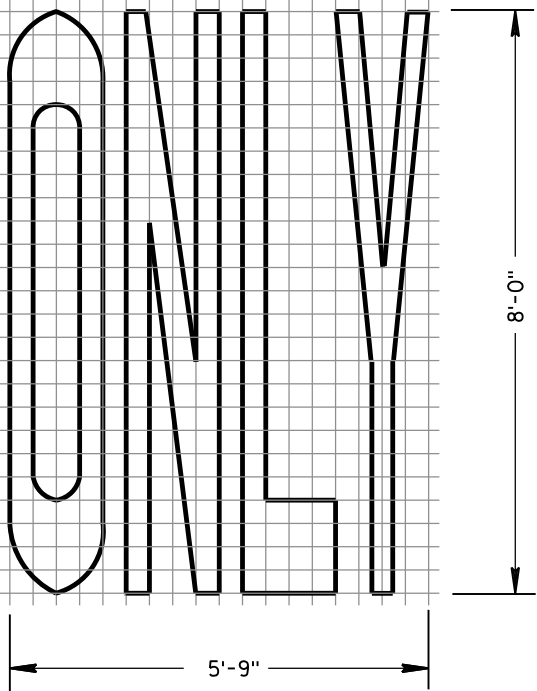
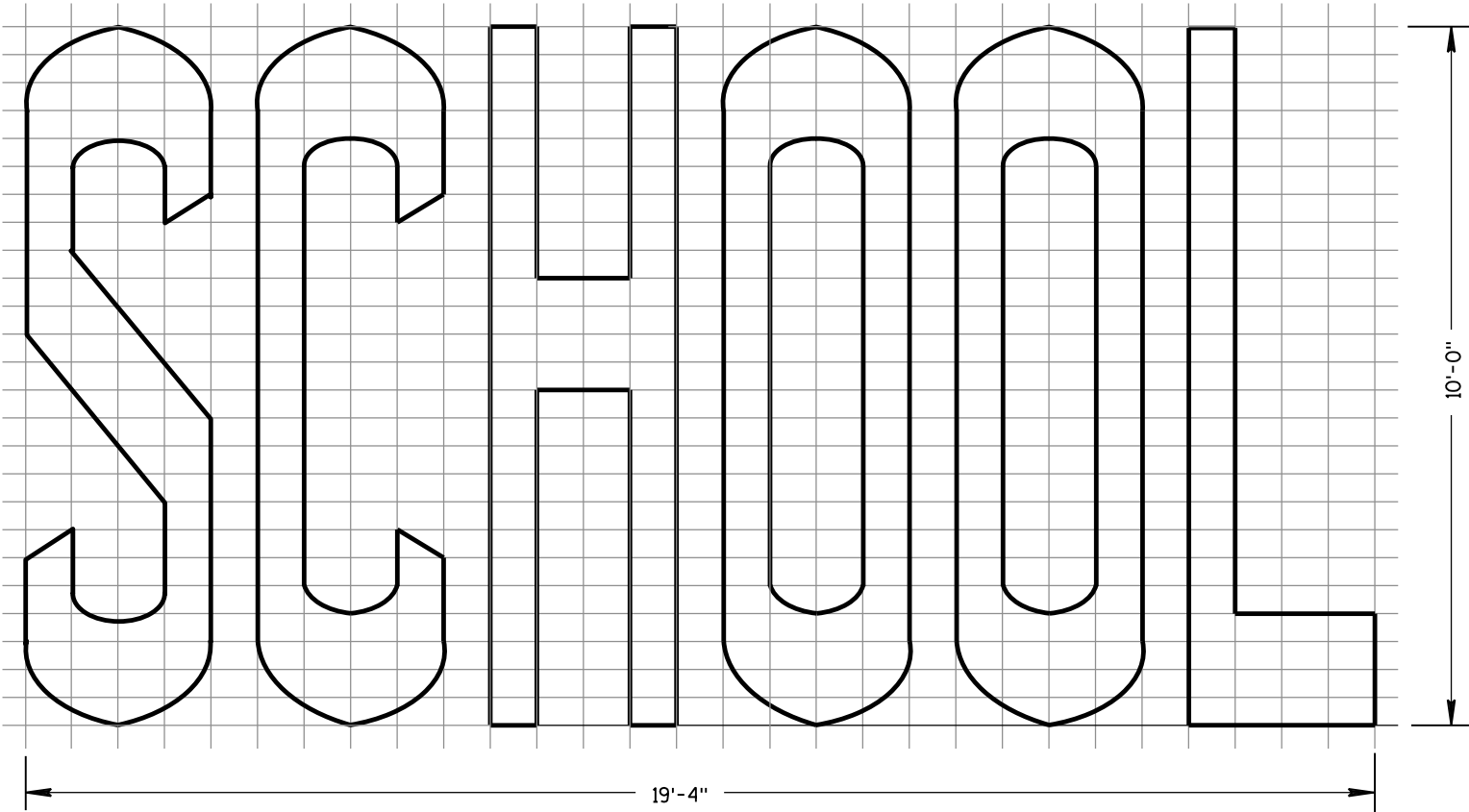
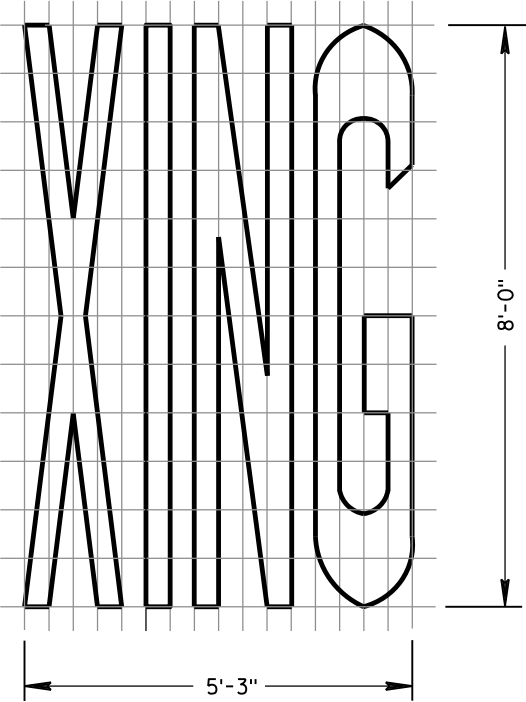
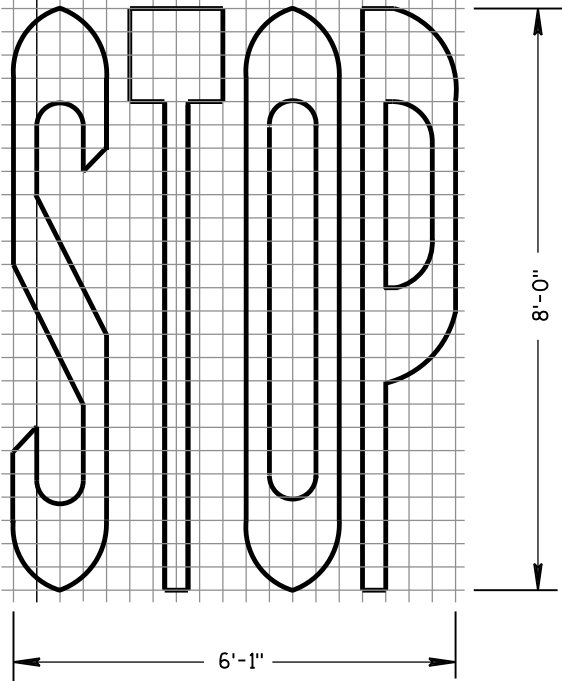
TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 40 M.P.H.
OR LESS TWO-WAY UNDIVIDED
ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

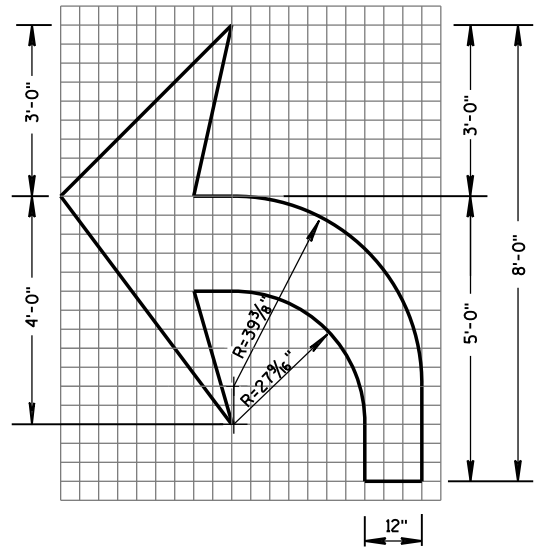
APPROVED
Sept. 2017 /S/ Andrew Heldtke
DATE WORK ZONE ENG 140
FHWA

GENERAL NOTES

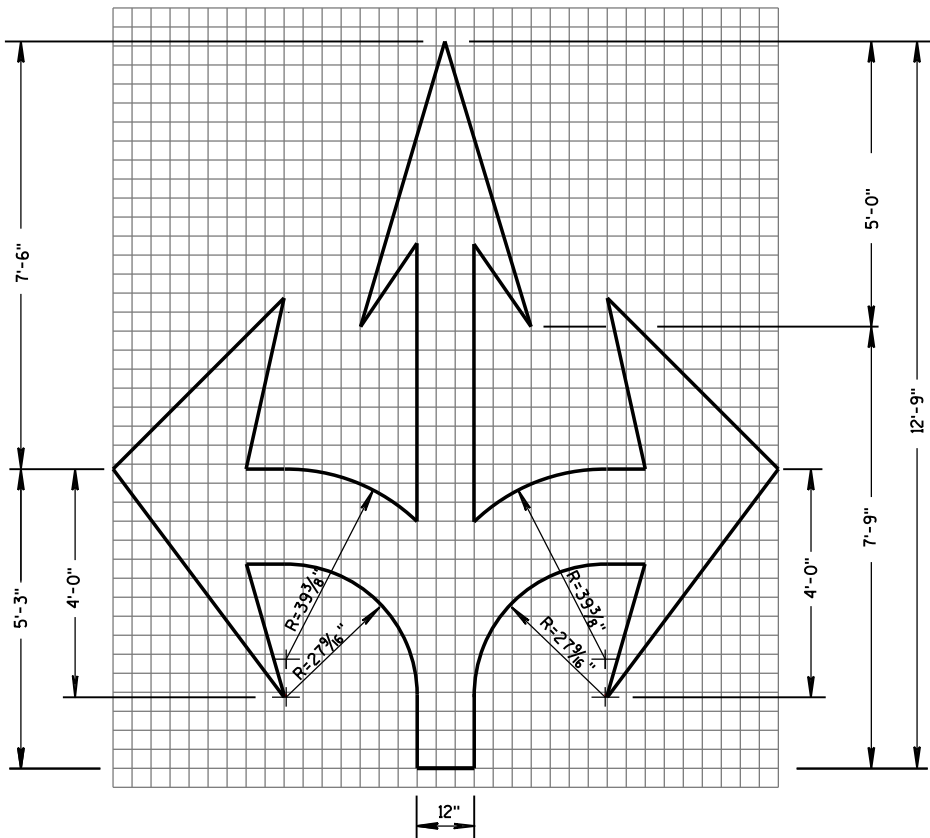
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



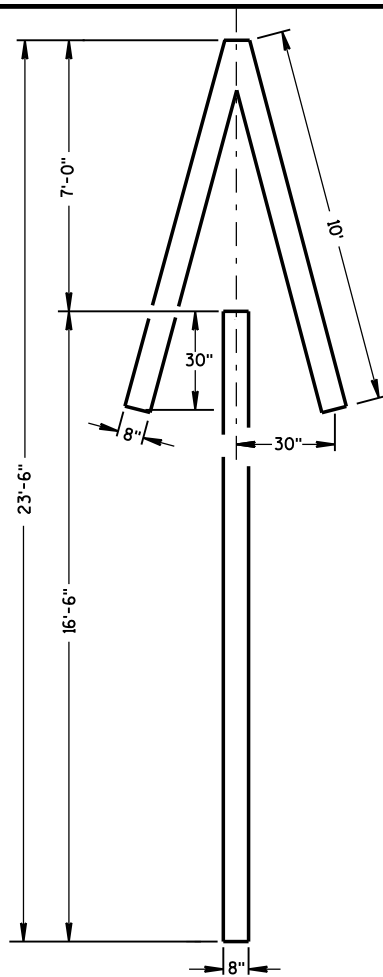
PAVEMENT MARKING WORDS			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
APPROVED			
June 2017	/S/ Matthew R. Rauch		
DATE	STATE SIGNING AND MARK	141	EER
FHWA			



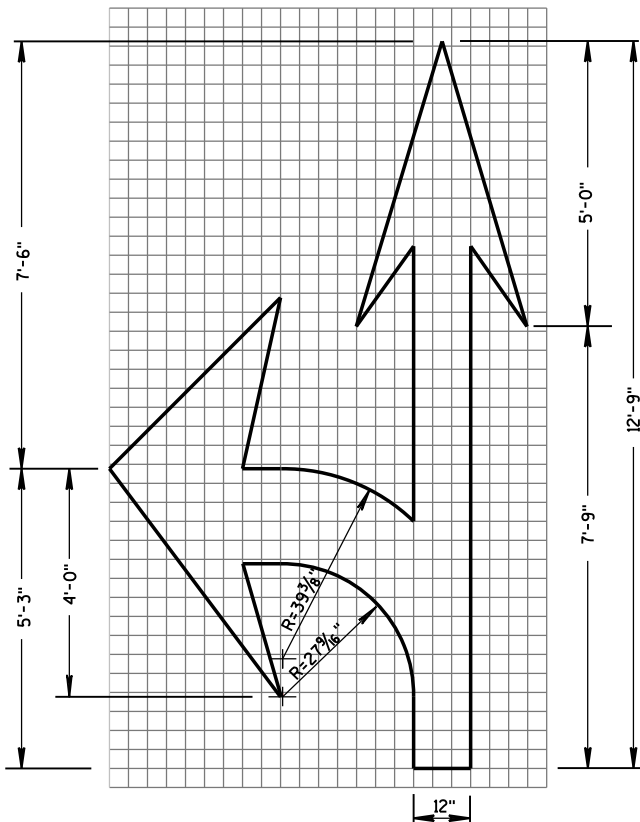
TYPE 2



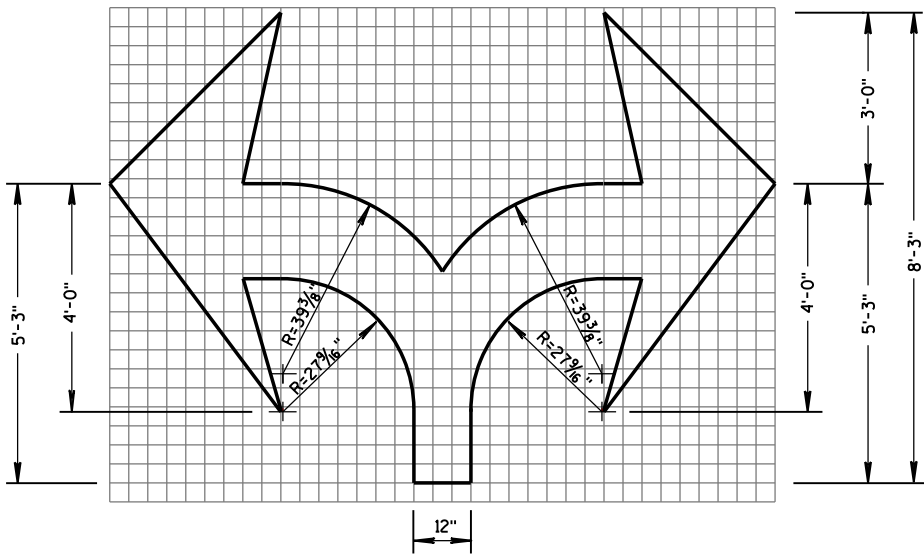
TYPE 6



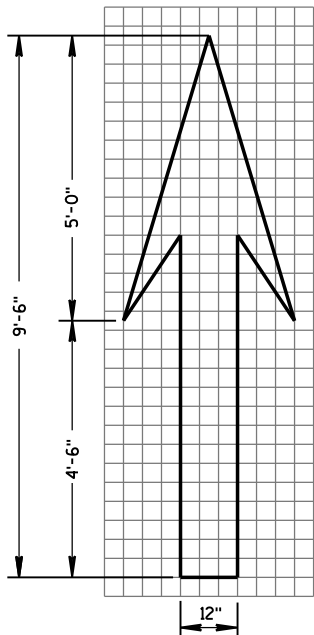
TYPE 4



TYPE 3



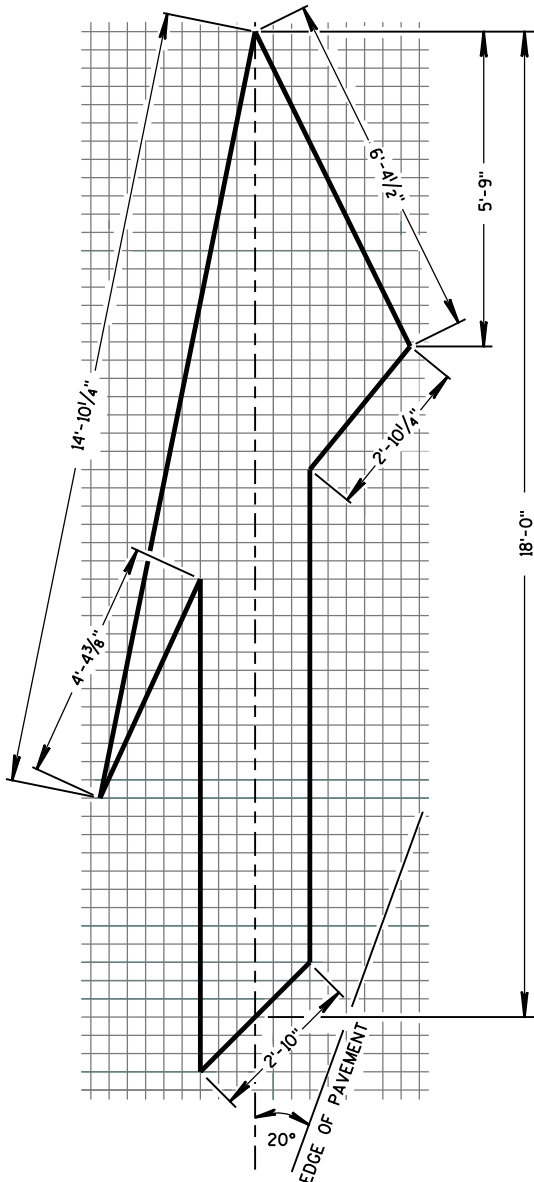
TYPE 7



TYPE 1

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

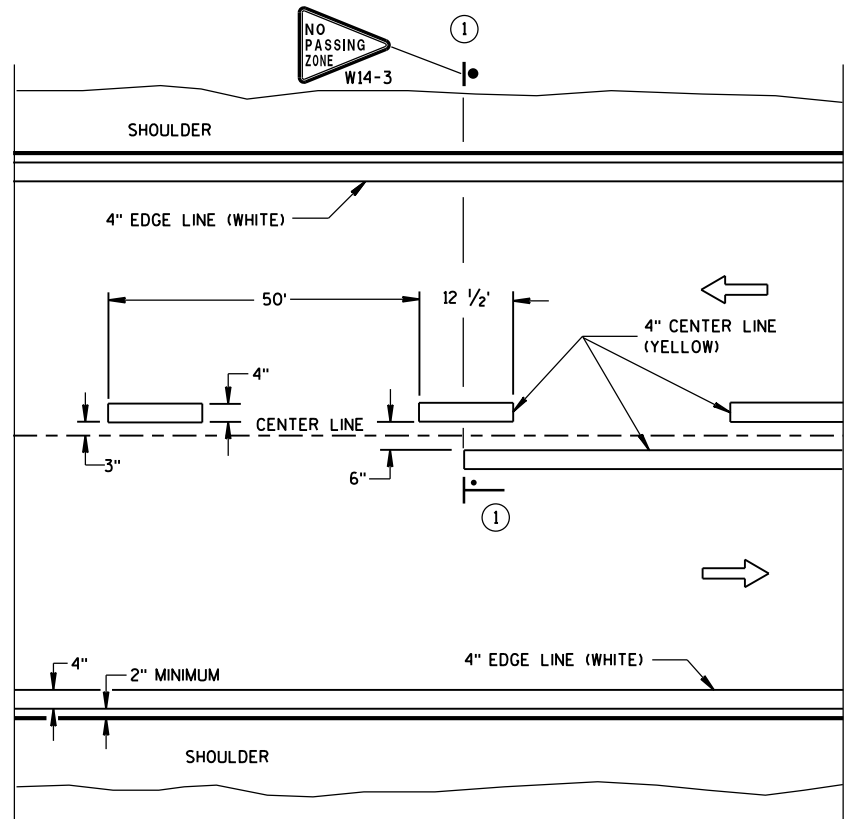


TYPE 5 LANE DROP ARROW

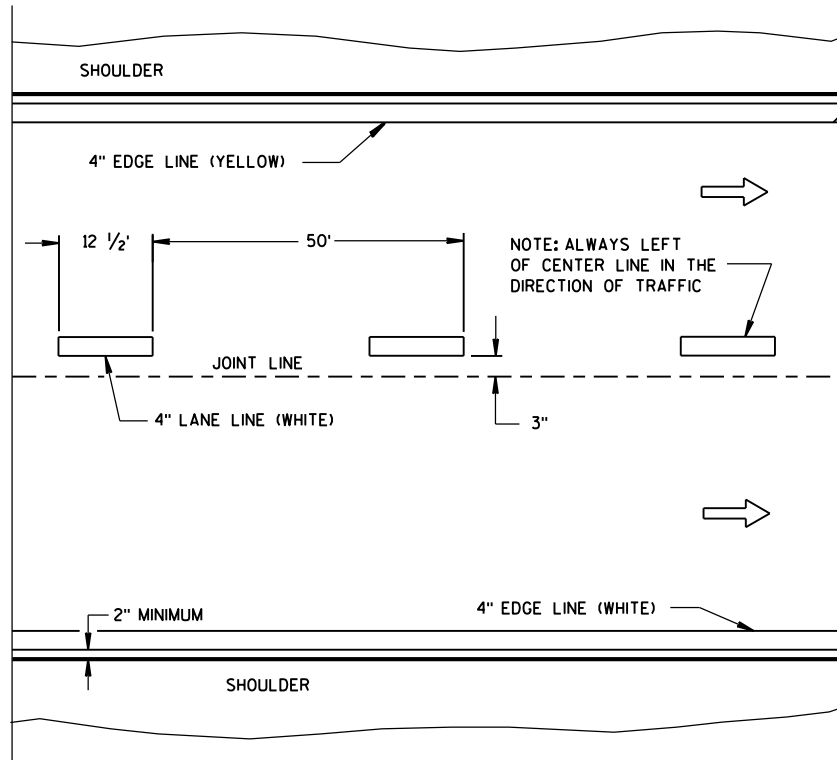
PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MAR 142
FHWA

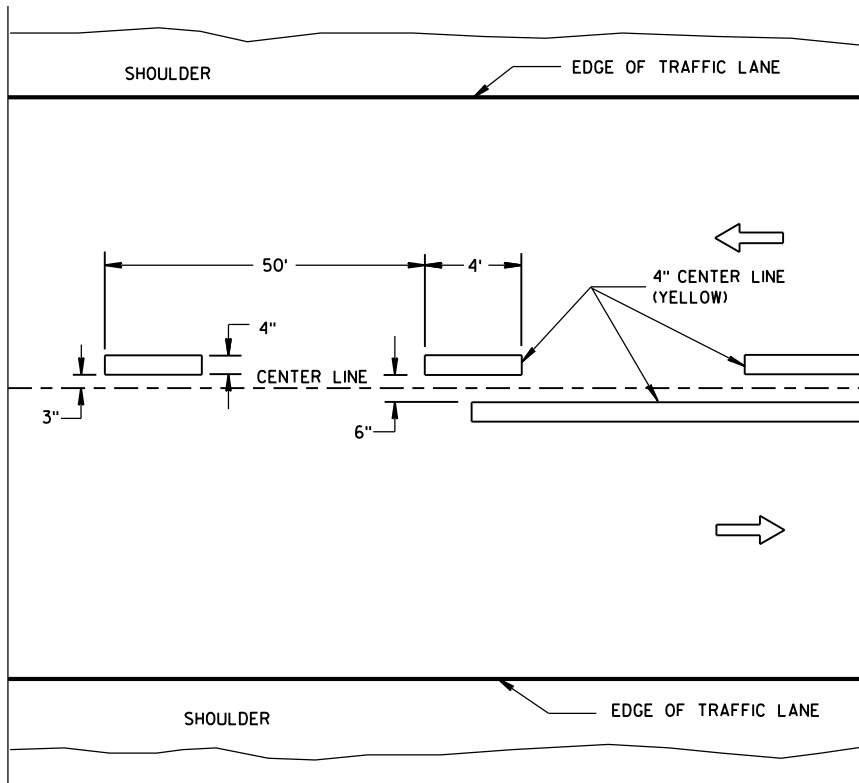


TWO WAY TRAFFIC

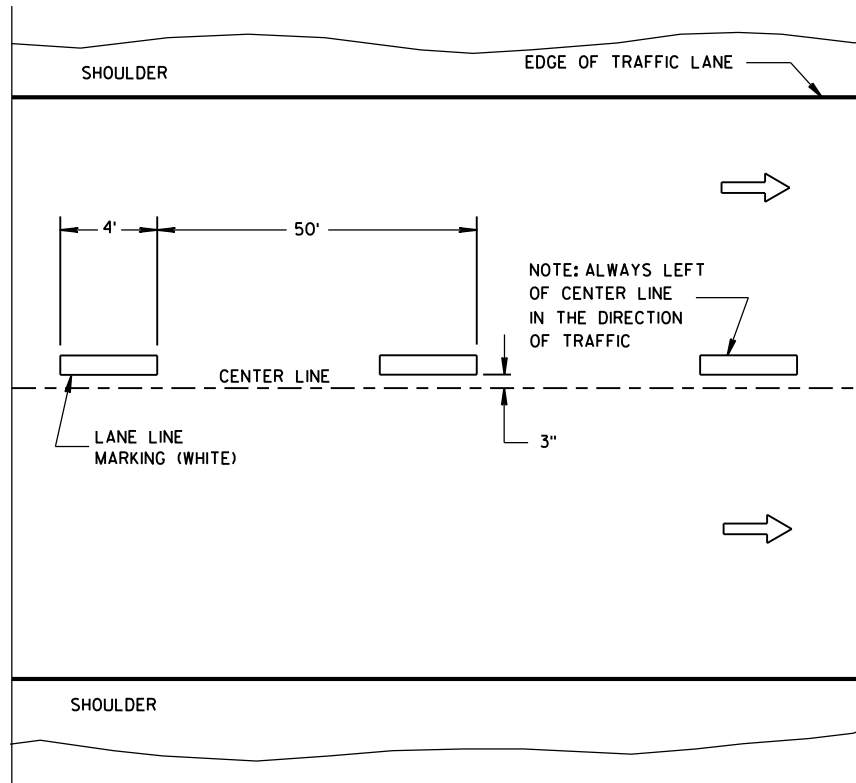


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

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

① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

LEGEND

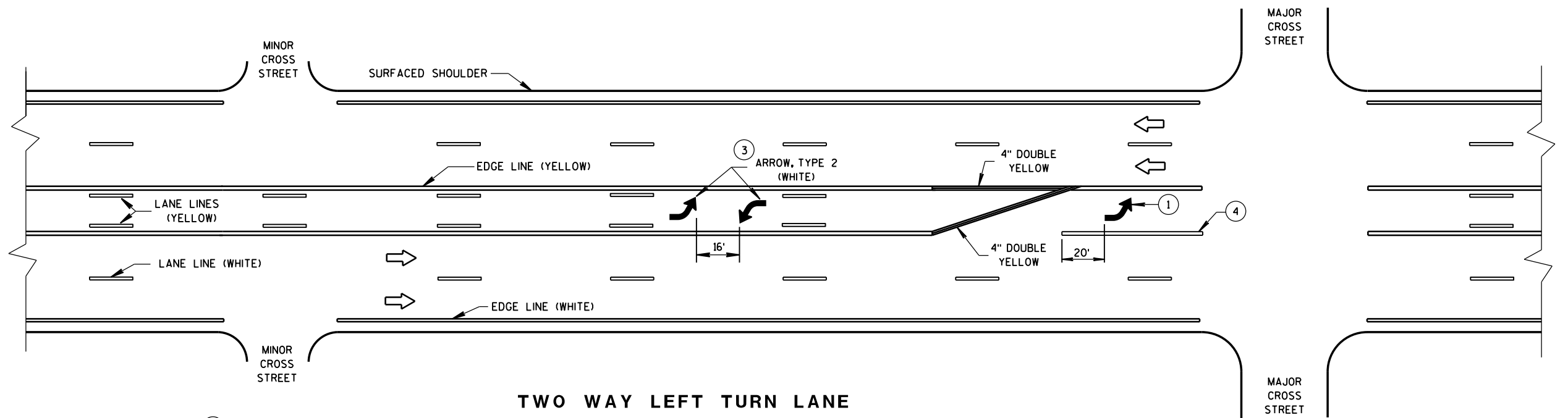
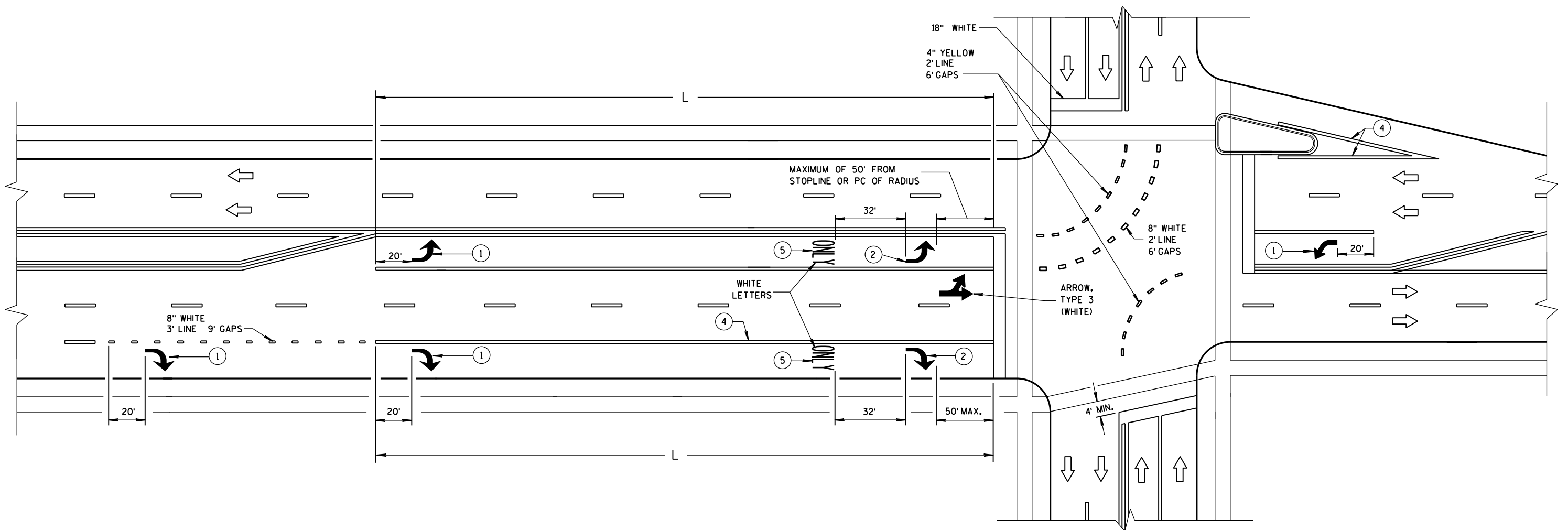
├── "T" MARKING

● POST MOUNTED SIGN

LONGITUDINAL MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MAP 143 ENGINEER
FHWA



GENERAL NOTES

- ① REQUIRED ARROW, TYPE 2 (WHITE).
- ② REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.
- ③ A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ④ 8" WHITE
- ⑤ REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

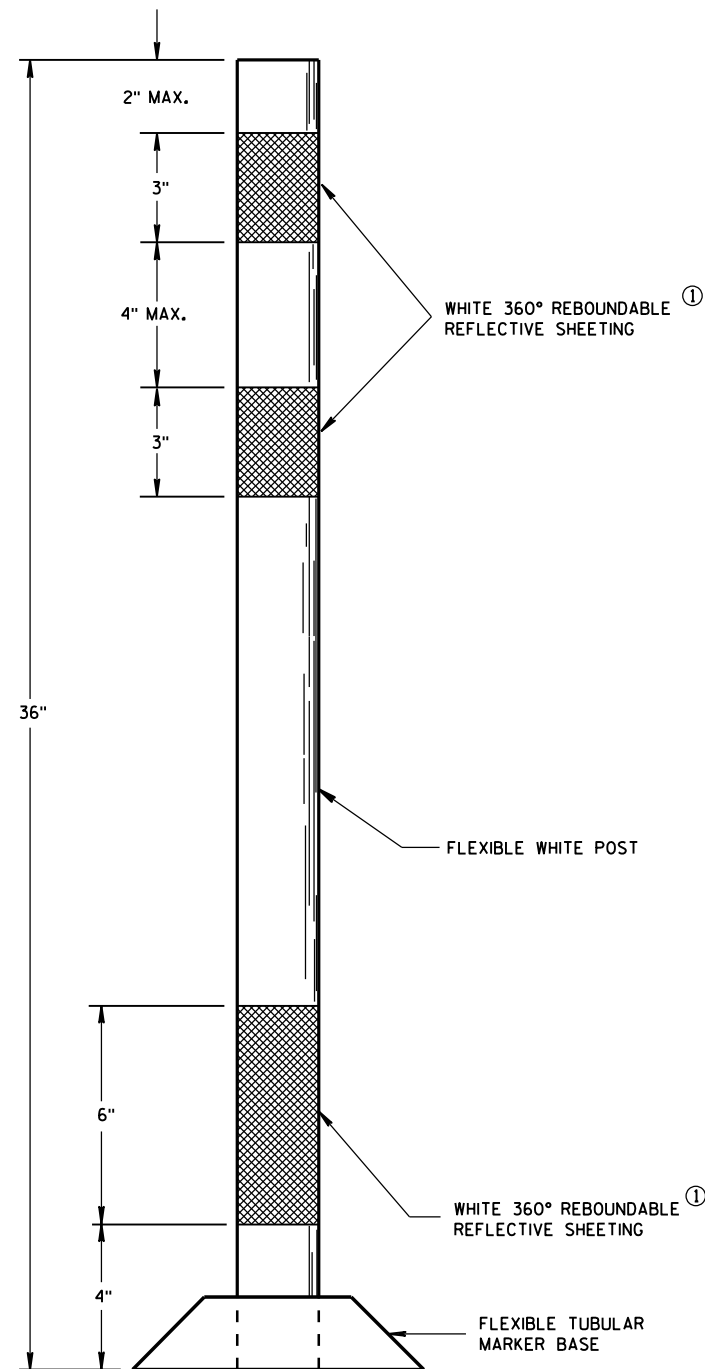
TWO WAY LEFT TURN LANE

NOTE:
ARROW SYMBOL ()
SHOWS DIRECTION OF TRAVEL

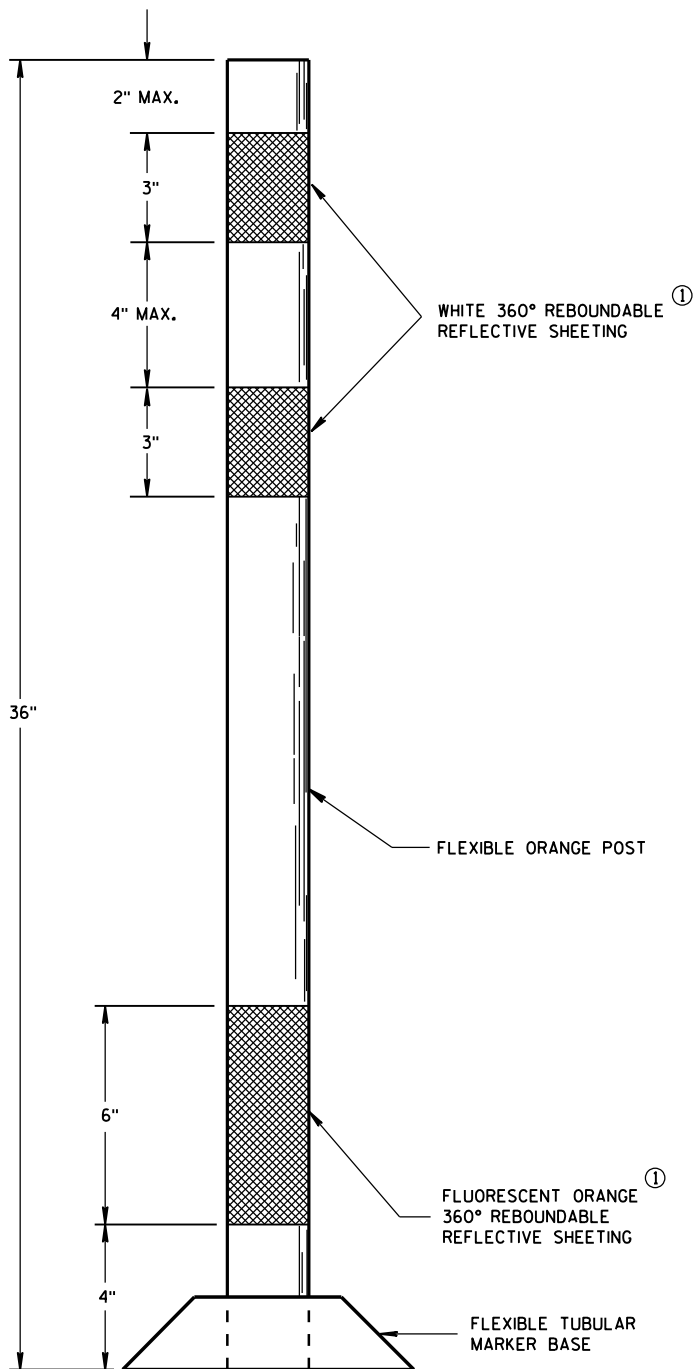
L = LENGTH OF TURN BAY

PAVEMENT MARKING
(TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 144



**FLEXIBLE
TUBULAR MARKER POST
PERMANENT CROSSOVER**



**FLEXIBLE
TUBULAR MARKER POST
WORK ZONE**

GENERAL NOTES

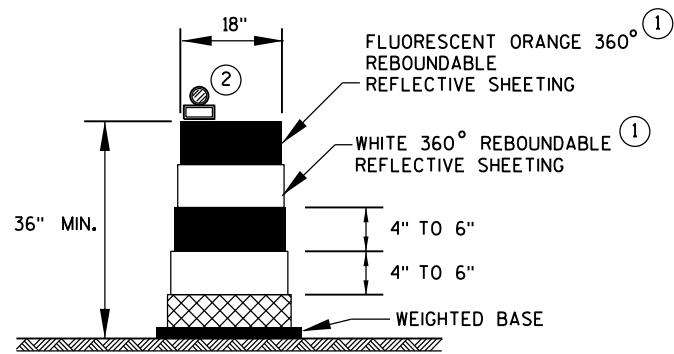
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

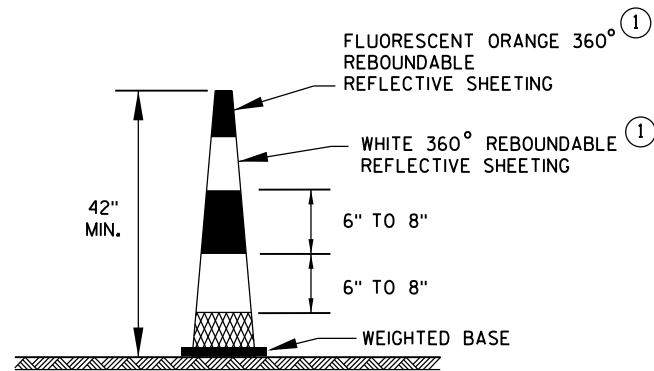
THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER 145
FHWA	



DRUM

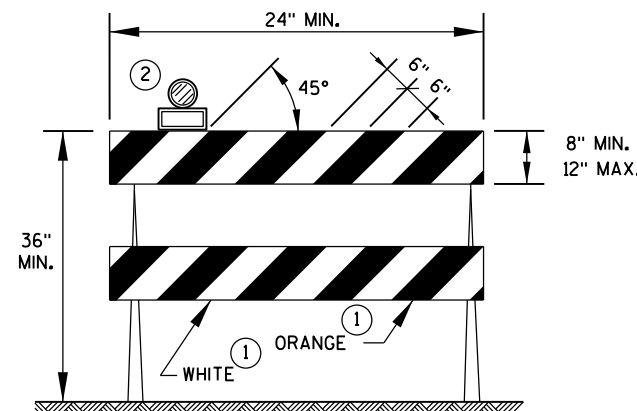


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

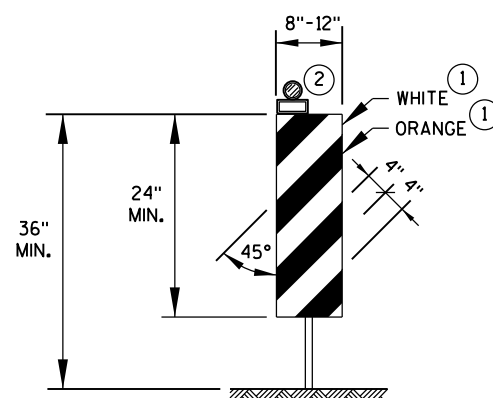
GENERAL NOTES

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



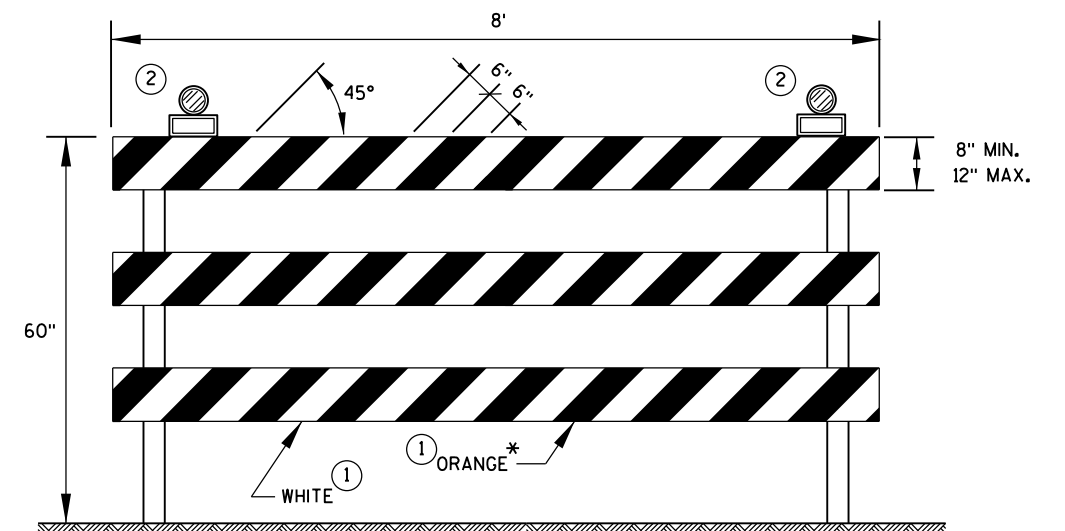
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.
ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

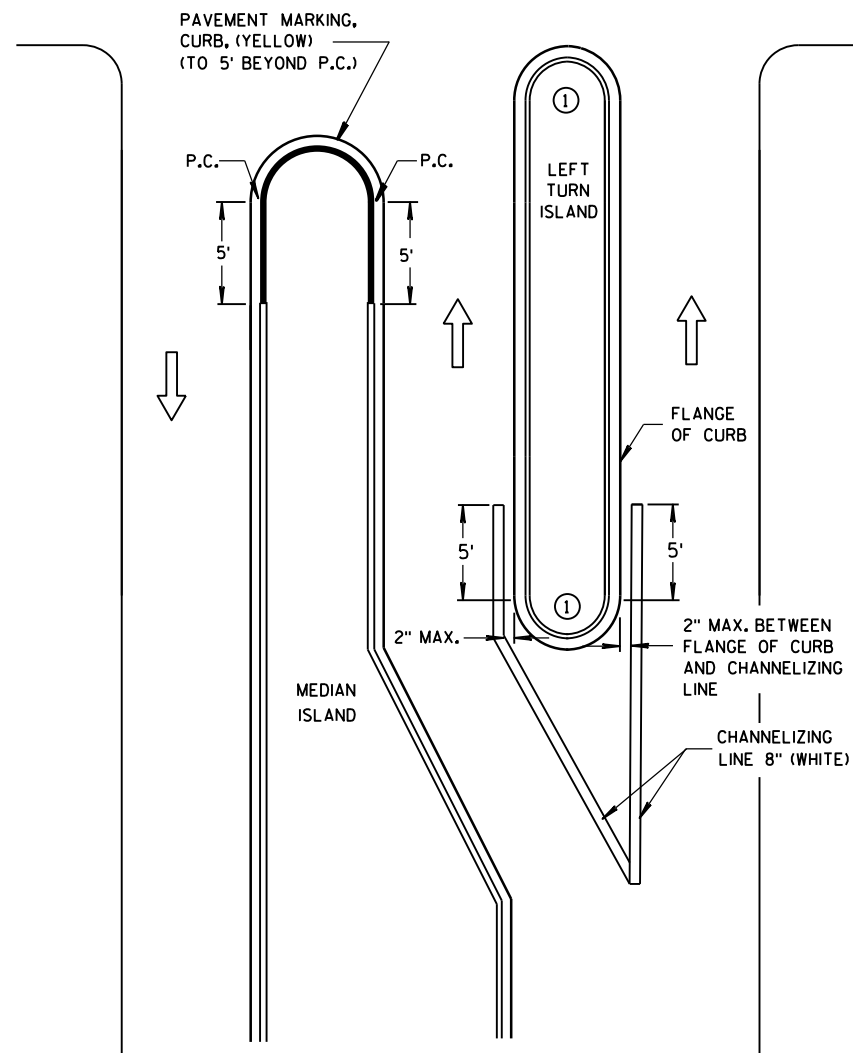
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENG 146

FHWA

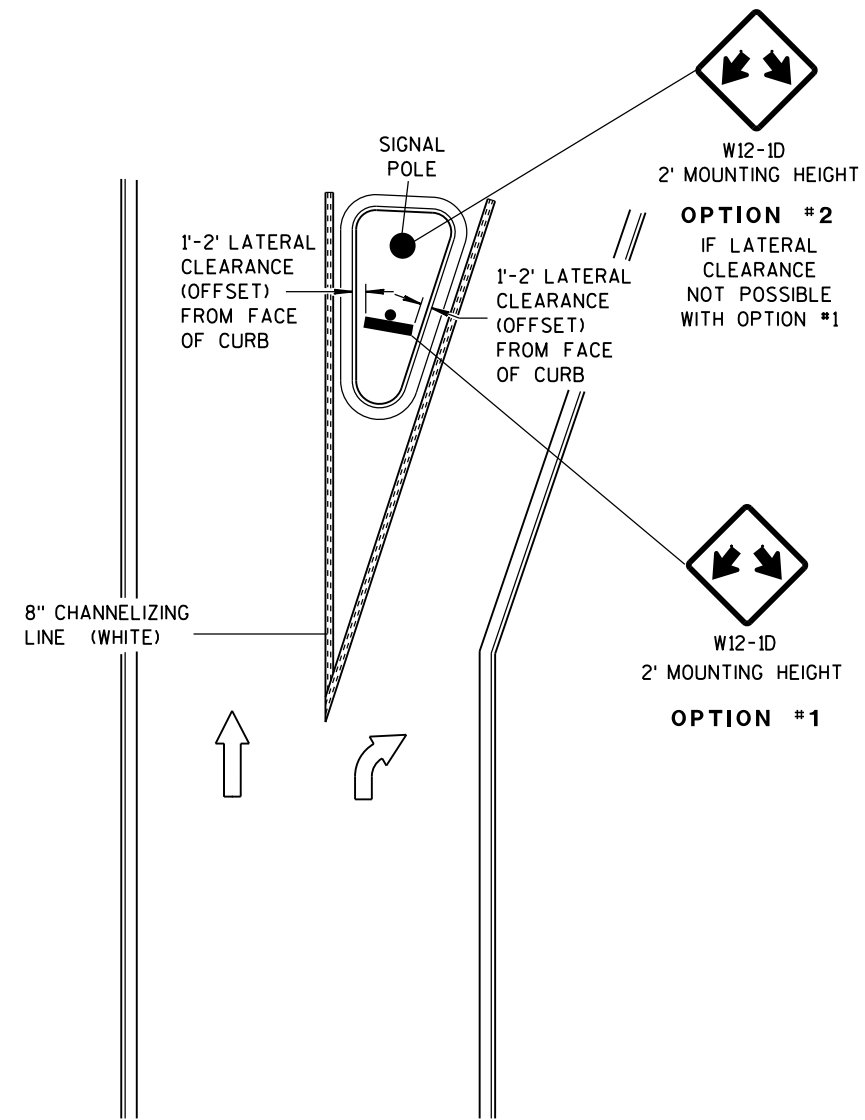


LEFT TURN & MEDIAN ISLAND

GENERAL NOTE

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

→ DIRECTION OF TRAVEL

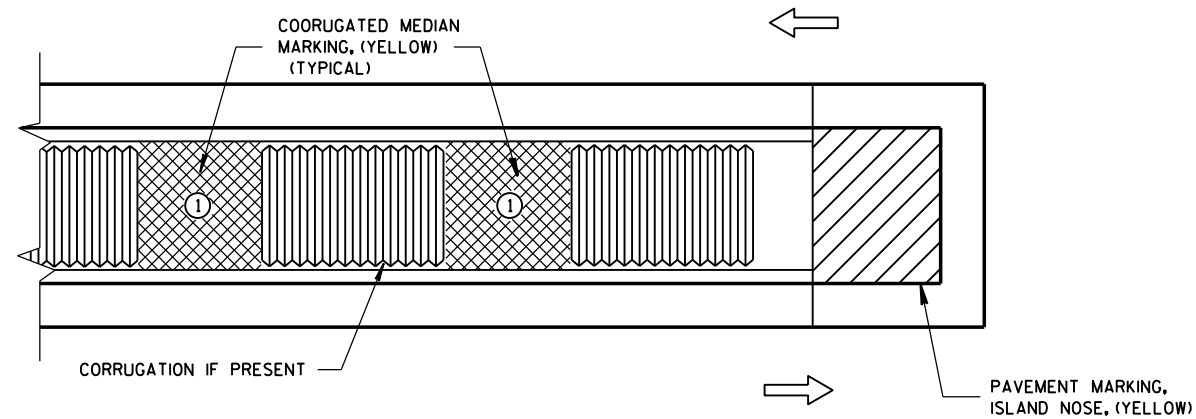


RIGHT TURN ISLAND

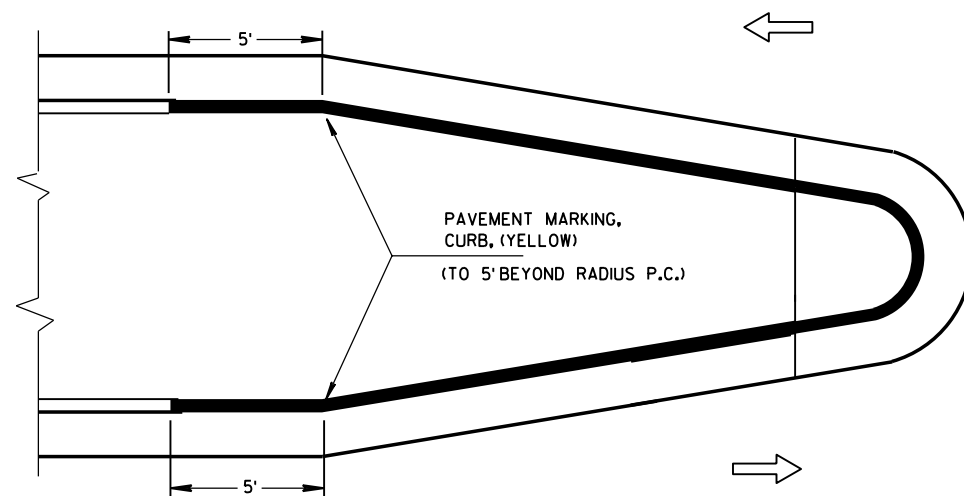
DOUBLE ARROW
WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

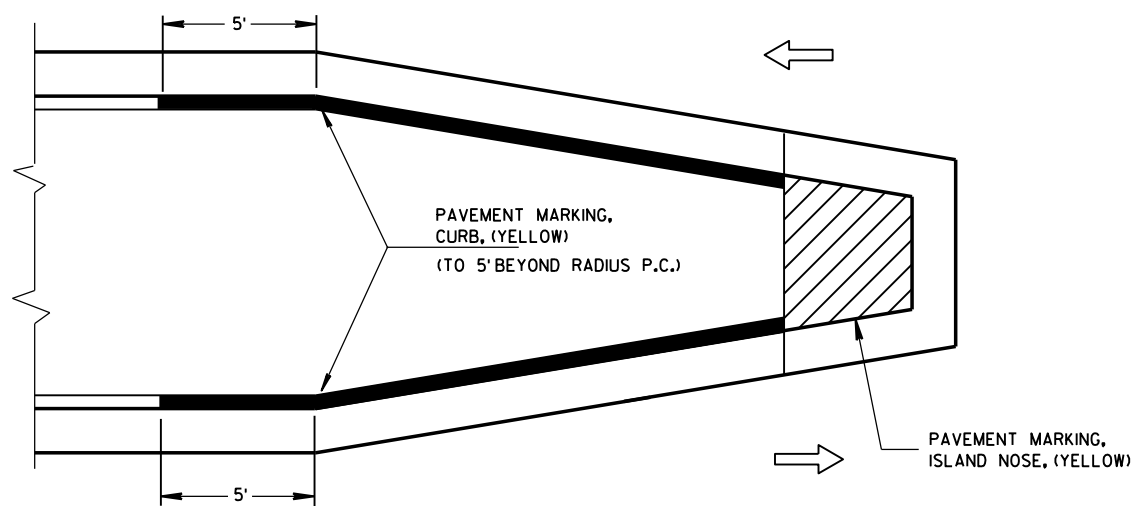
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June 2017 /S/ Matthew Rauch
DATE STATE SIGNING AND MARK 147 EER
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MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE

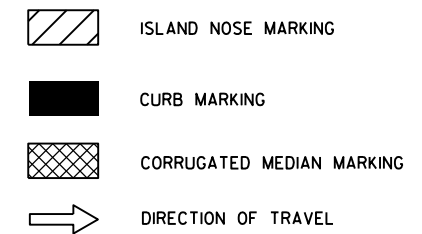


MEDIAN ISLAND WITH SLOPED NOSE

**TYPICAL PLACEMENT OF
PAVEMENT MARKING ON MEDIAN ISLANDS**

GENERAL NOTES

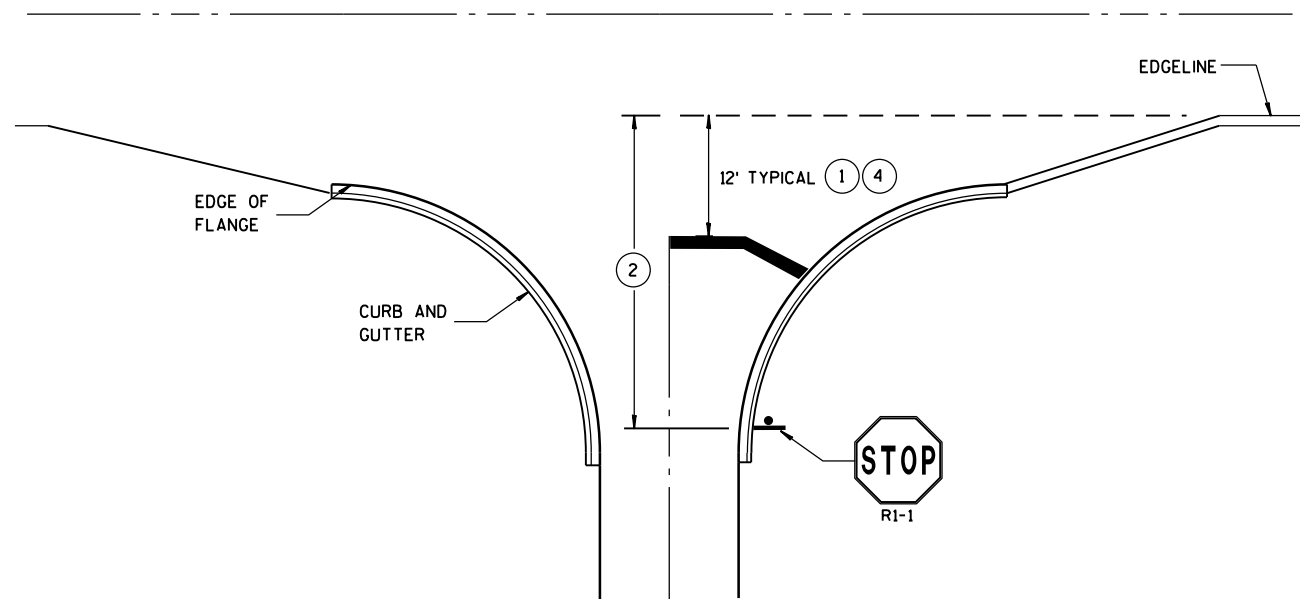
- ① WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



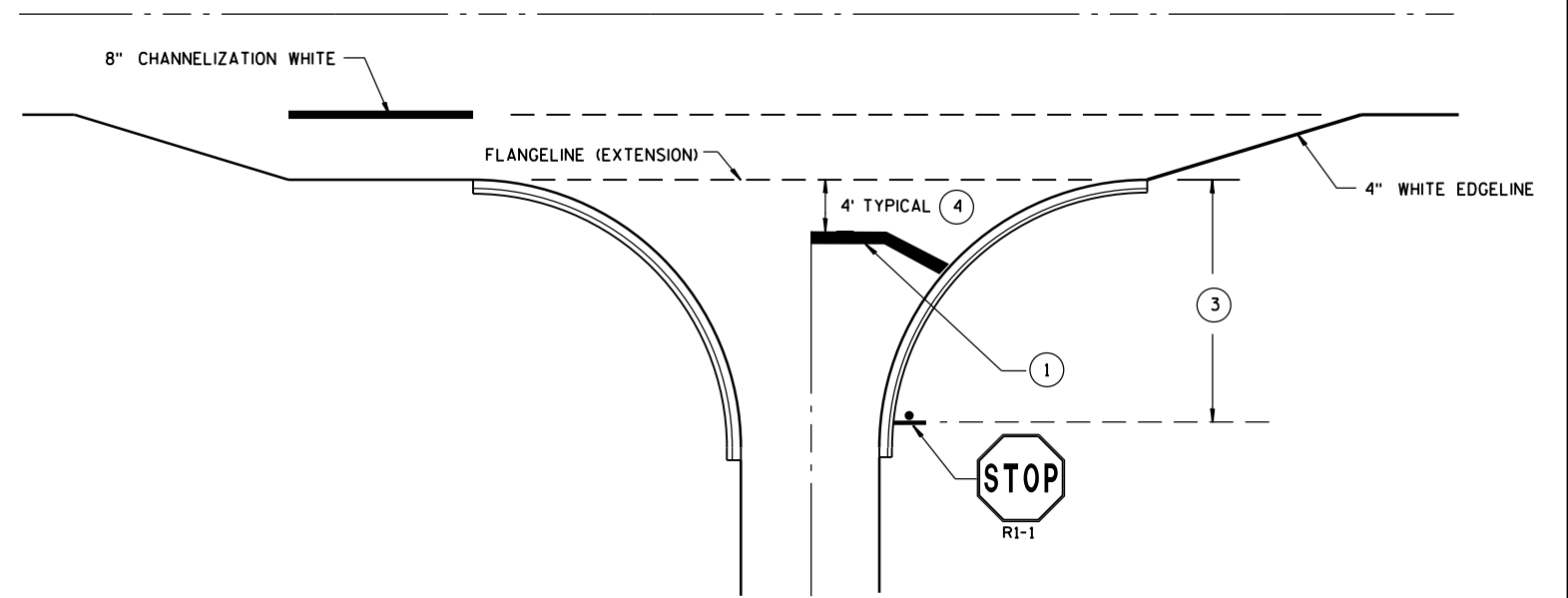
**PAVEMENT MARKING
(ISLANDS)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

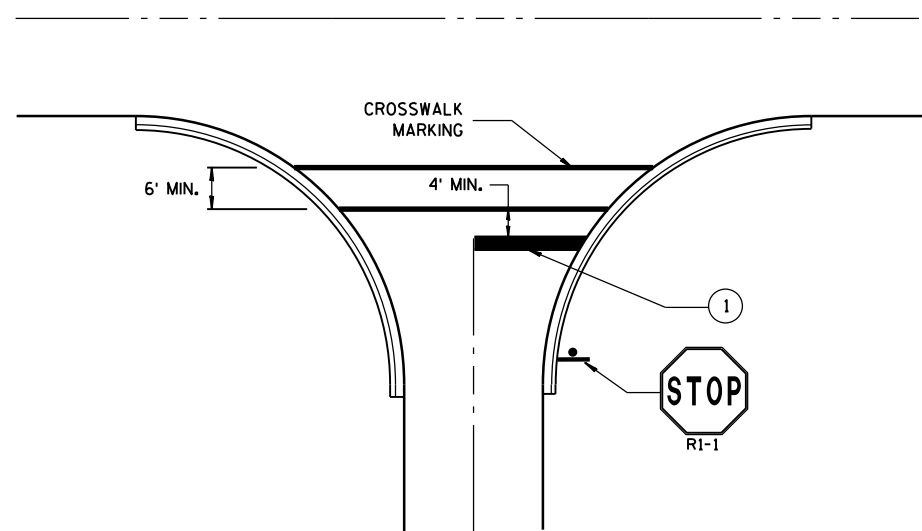
APPROVED
June 2017 /S/ Matthew Rauch
DATE STATE SIGNING AND MARK 148 EER
FHWA



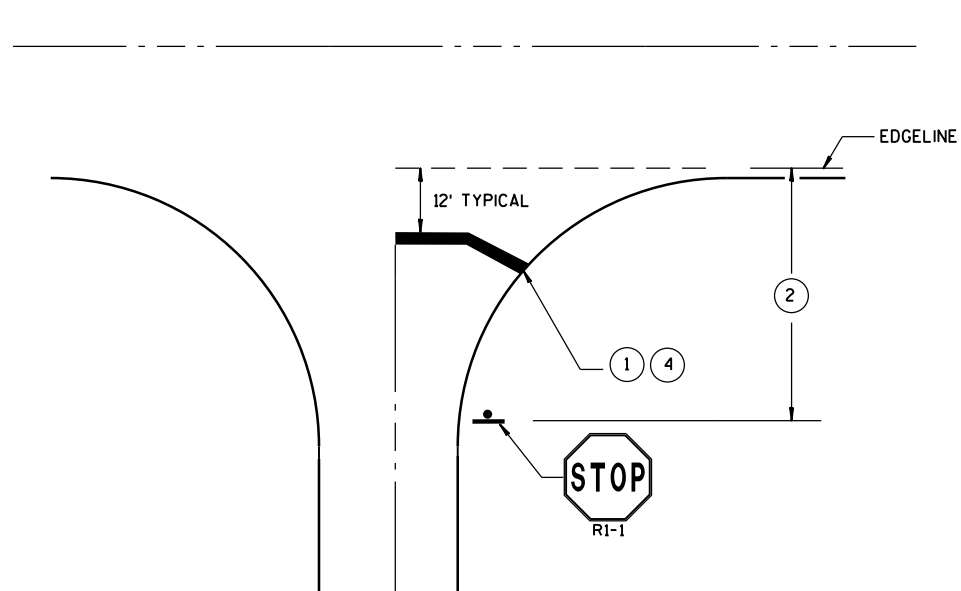
**TYPICAL STOP LINE PAVEMENT MARKING
WITH CURB AND GUTTER**



**TYPICAL STOP LINE PAVEMENT MARKING
FOR SIDEROADS WITH RIGHT TURN LANE**



**TYPICAL STOP LINE PAVEMENT MARKING
FOR SIDEROADS WITH CROSSWALK MARKING**



**TYPICAL STOP LINE PAVEMENT MARKING
WITHOUT CURB AND GUTTER**

GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGE LINE LOCATION.

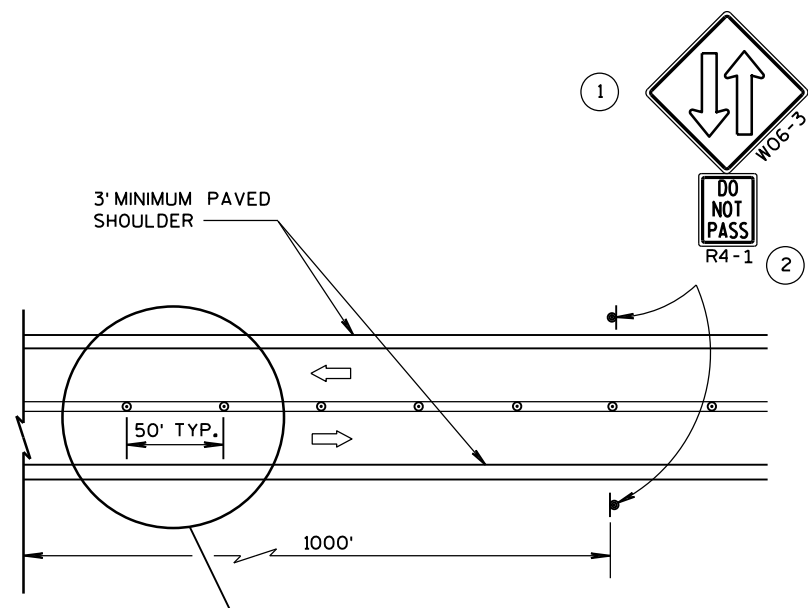
- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGE LINE THAN NO STOP LINE IS REQUIRED.
- ③ IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
- ④ MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

**STOP LINE AND CROSSWALK
PAVEMENT MARKING**

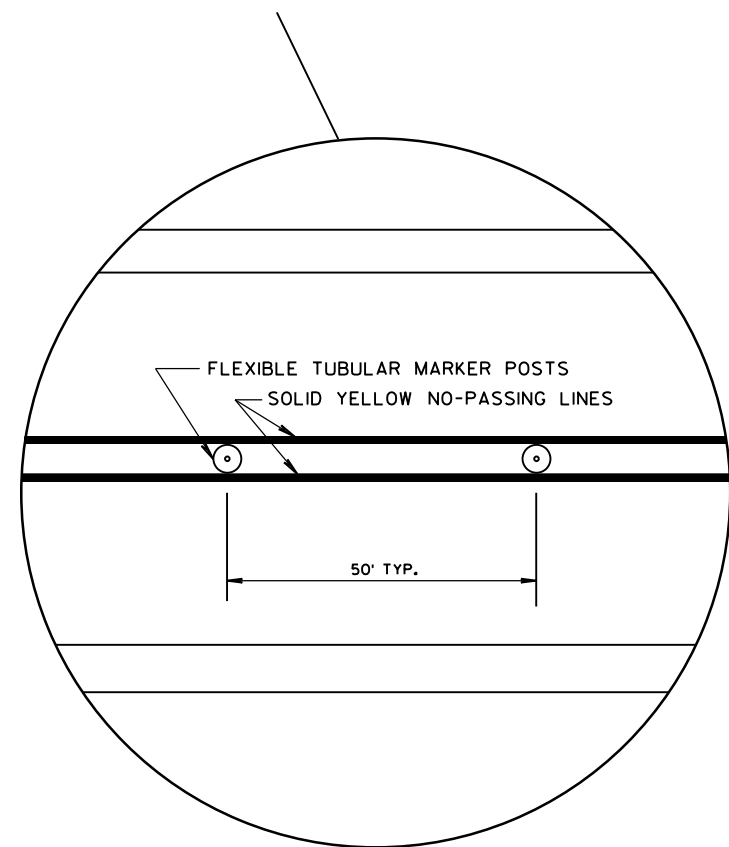
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE Sept., 2017 /S/ Matthew R. Rauch
STATE SIGNING AND MAR 149 JER
FHWA



TWO LANE, TWO WAY OPERATION



LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ⊙ DELINEATOR FLEXIBLE/TUBULAR MARKER
- ➡ DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"x48" UNLESS OTHERS NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

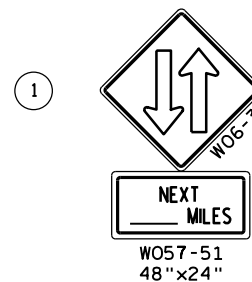
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50-FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW.



THE WO6-3 WITH THE WO57-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND/OR 500 FEET BEYOND ANY SIDEROAD. THE WO6-3 WITH THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE WO6-3 AND THE WO57-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN WO6-3 SIGNS.

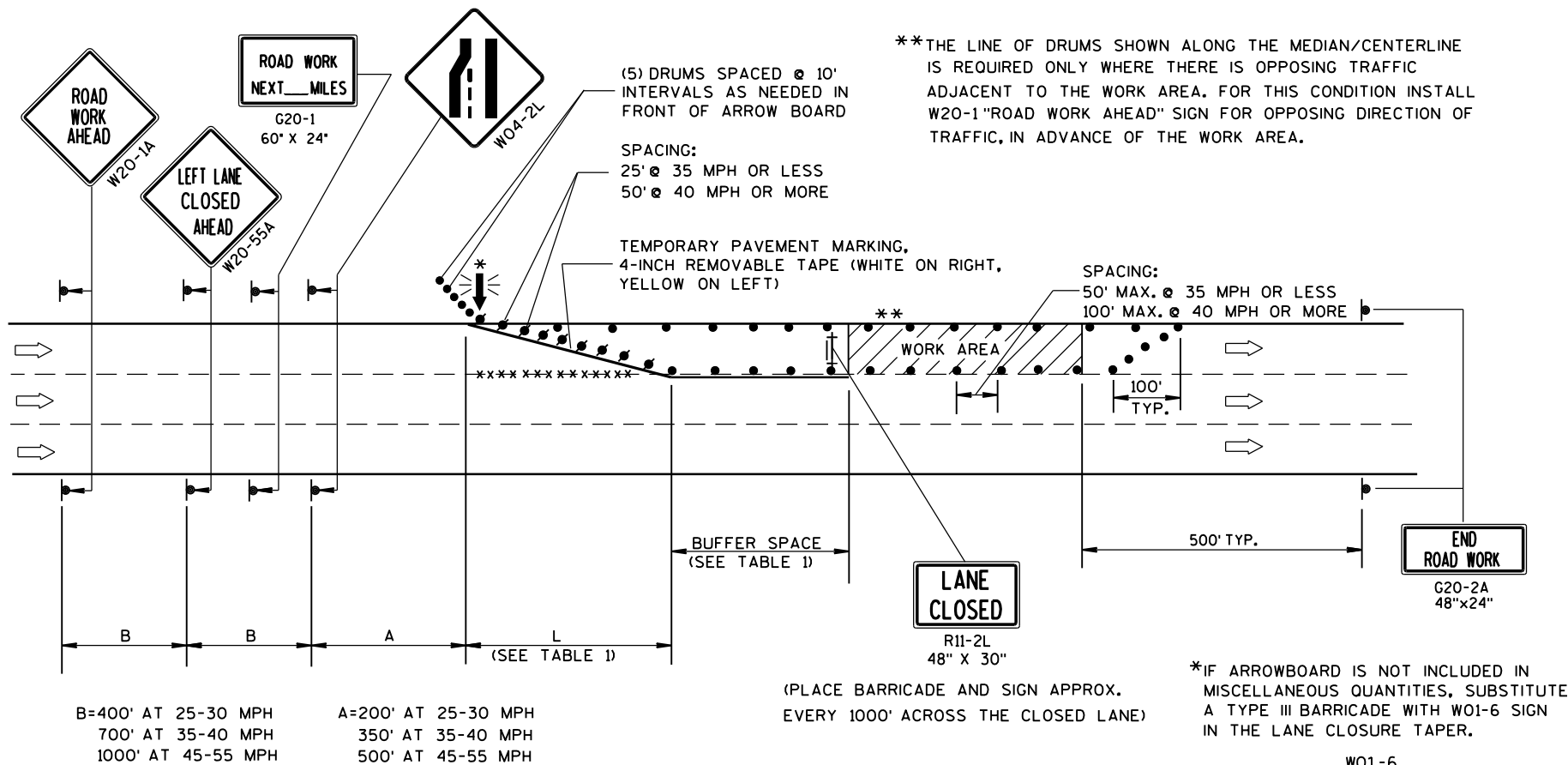
2 CONVENTIONAL: 24"x30"
FREEWAY AND EXPRESSWAY: 36"x48"

TRAFFIC CONTROL,
TWO LANE TWO
WAY OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEE 150 SIGN
FHWA



GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TABLE 1
TAPER AND BUFFER SPACE
FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

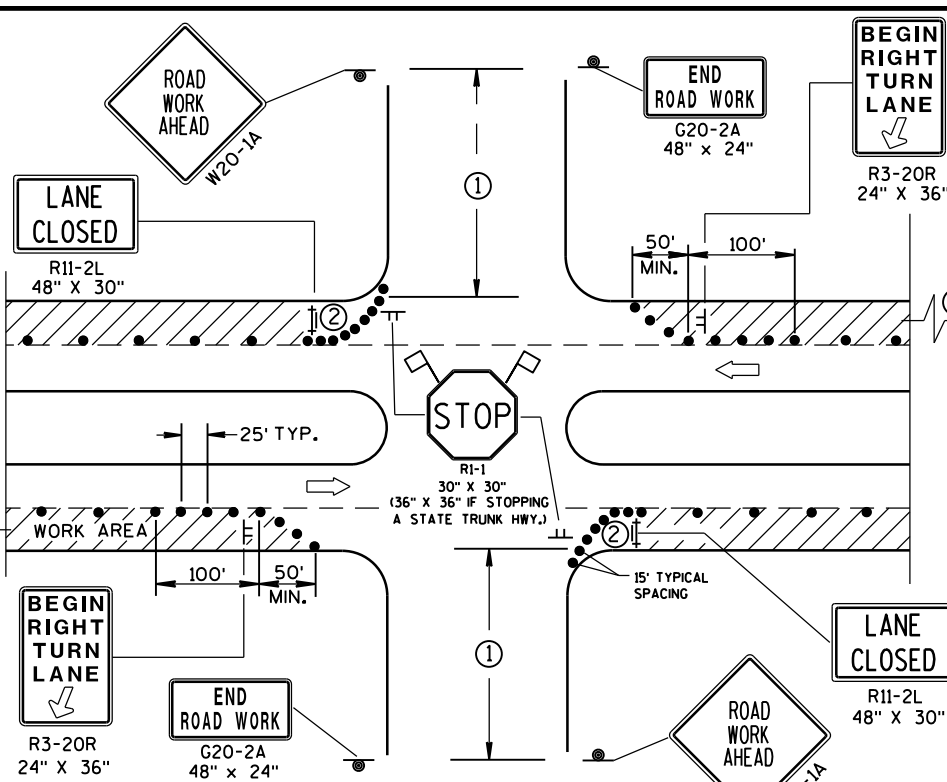
LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

TRAFFIC CONTROL,
SINGLE LANE CLOSURE,
NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

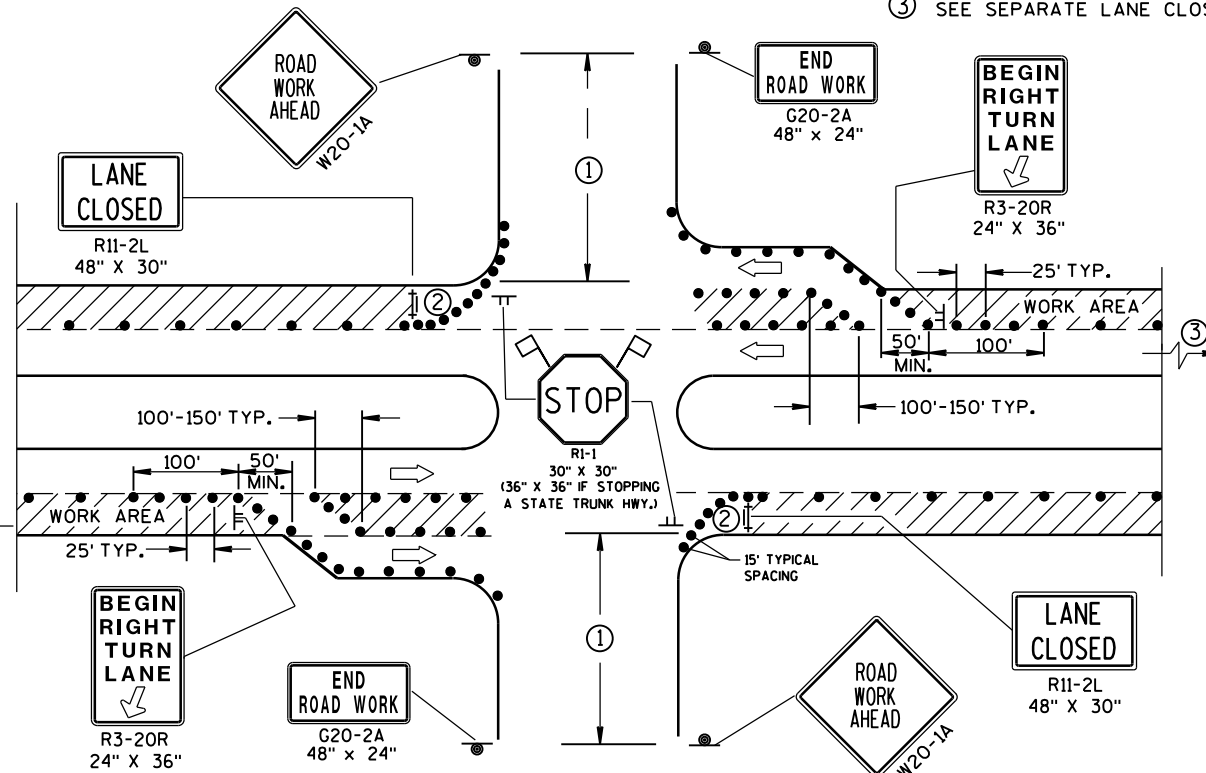
APPROVED
June 2016 /S/ Peter Amakobe Atepe
DATE STATEWIDE WORK ZONE SAFETY ENGIN 151 IC
FHWA



DETAIL B
FOR RIGHT LANE CLOSURE
AT INTERSECTION

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

- ① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.
- ② ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.
- ③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL D

FOR RIGHT LANE CLOSURE AT INTERSECTION
(WITH RIGHT TURN BAY OPEN)

	TRAFFIC CONTROL DRUM
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
	TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" WARNING LIGHT (FLASHING)
	DIRECTION OF TRAFFIC
	FLAGS, 16" X 16" MIN., (ORANGE)
	WORK AREA

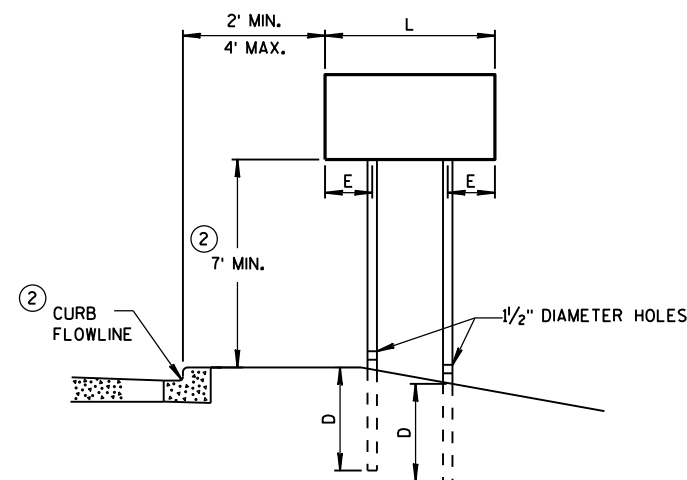
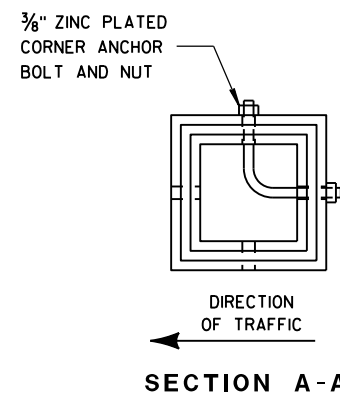
APPROVED
Sept., 2017 /S/ Andrew Heidtke
DATE WORK ZONE ENC 152
FHWA



TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS LARGER THAN 27 SQ.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

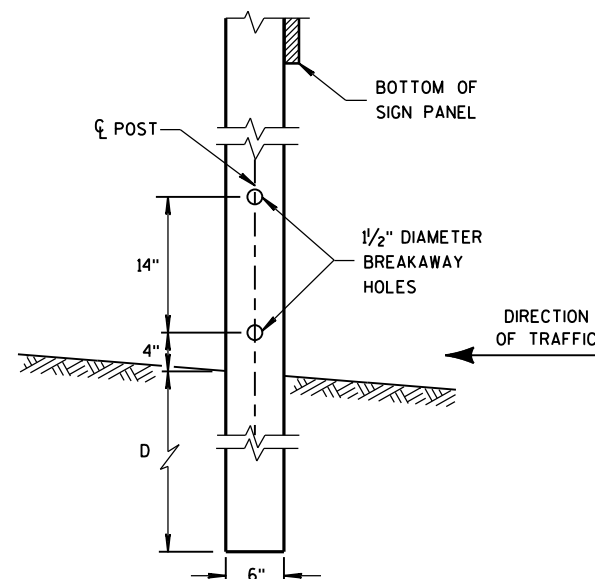


URBAN AREA

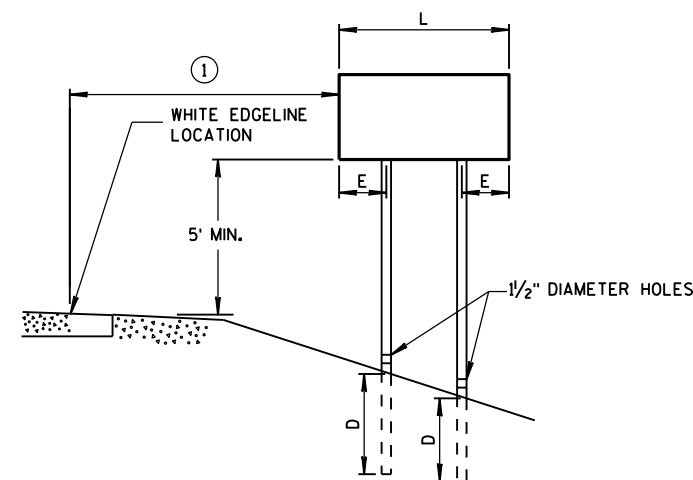
POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST
EMBEDMENT DEPTH

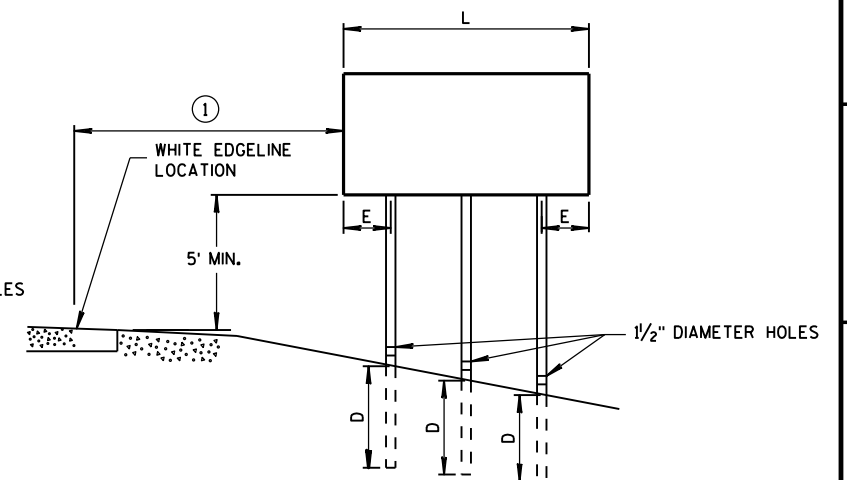
AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'



4"x6" WOOD POST MODIFICATION



RURAL AREA



GENERAL NOTES

- ① 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- ② THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- ③ FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.

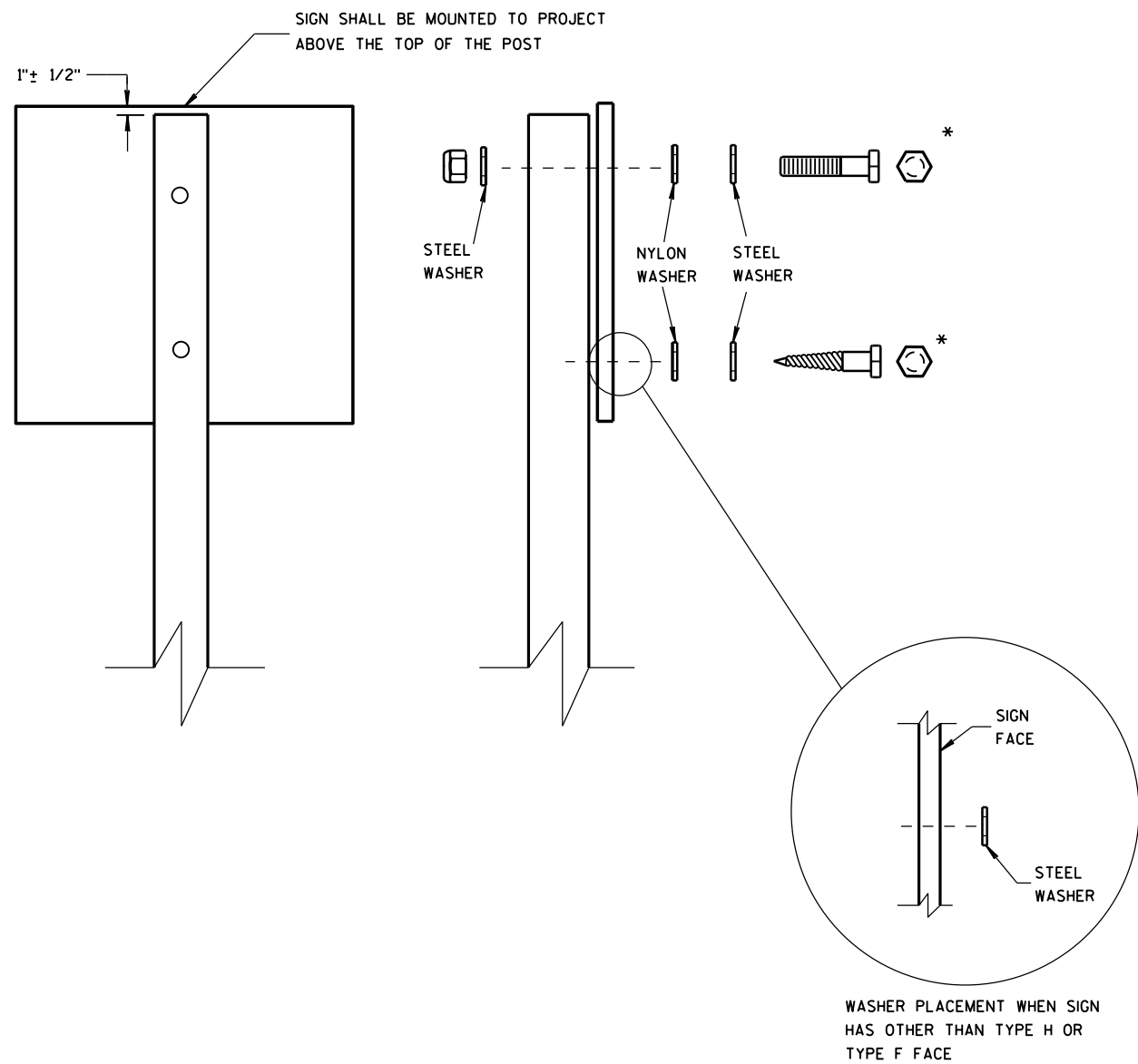
4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 153



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

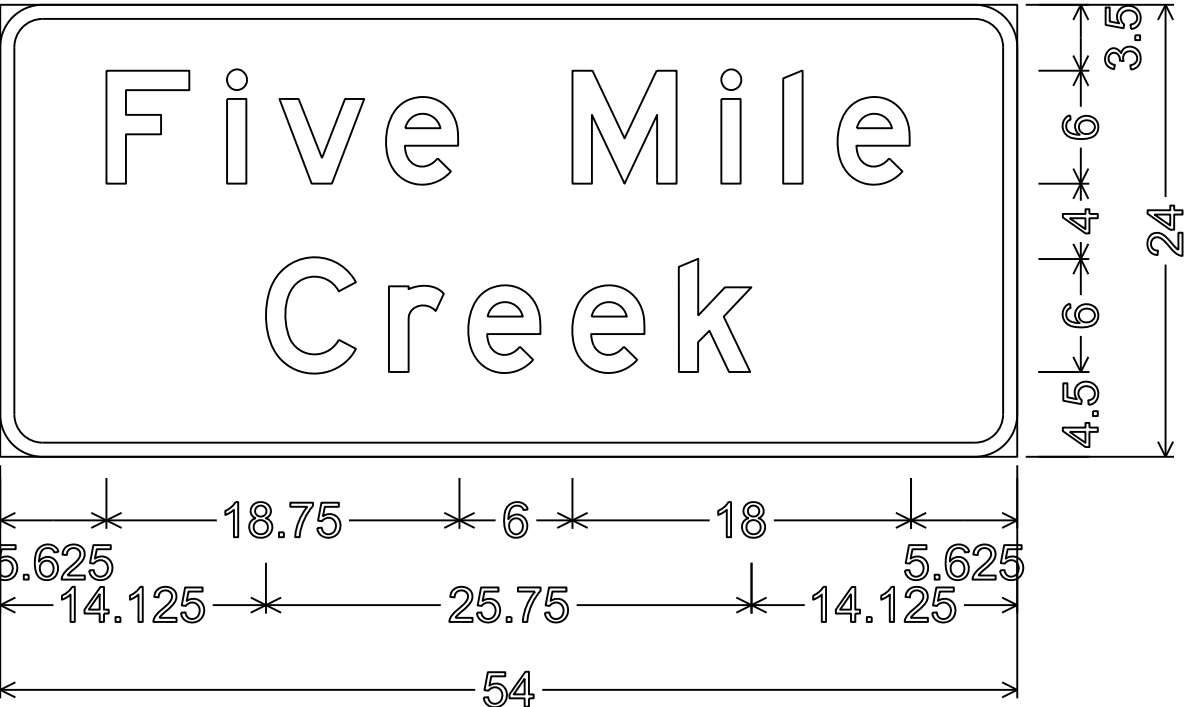
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" x 3"
 - MACHINE BOLTS - 5/16" x 6-1/2" OR 7" LENGTH W/ NUTS

- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" x 3-1/4" LENGTH W/ NUTS
 - RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

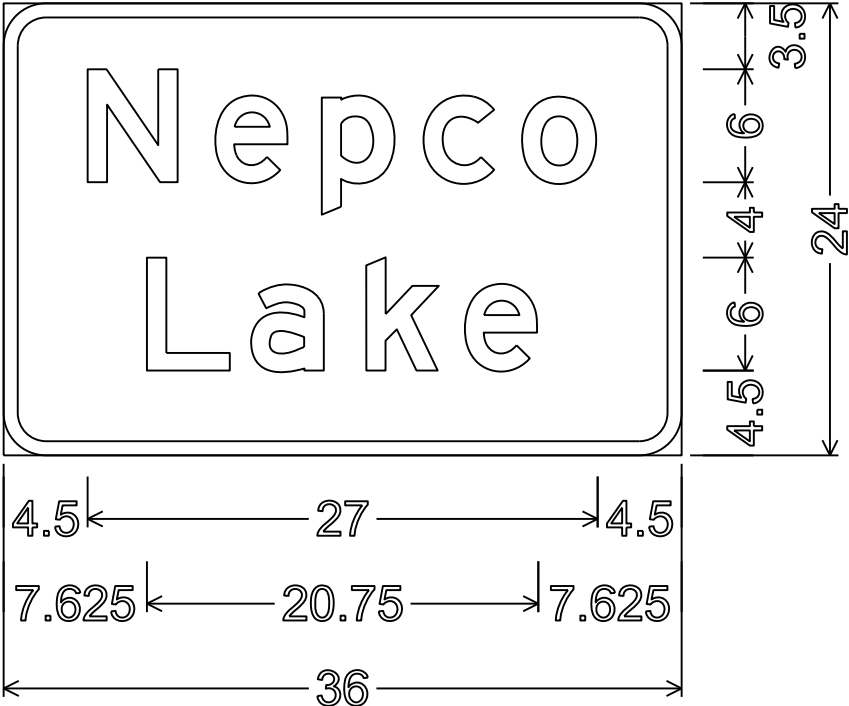
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. x 3/8" I.D. x 1/16" STEEL
 - 1-1/4" O.D. x 3/8" I.D. x .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENC 154
FHWA	



I3-1;
2.250" Radius, 0.750" Border

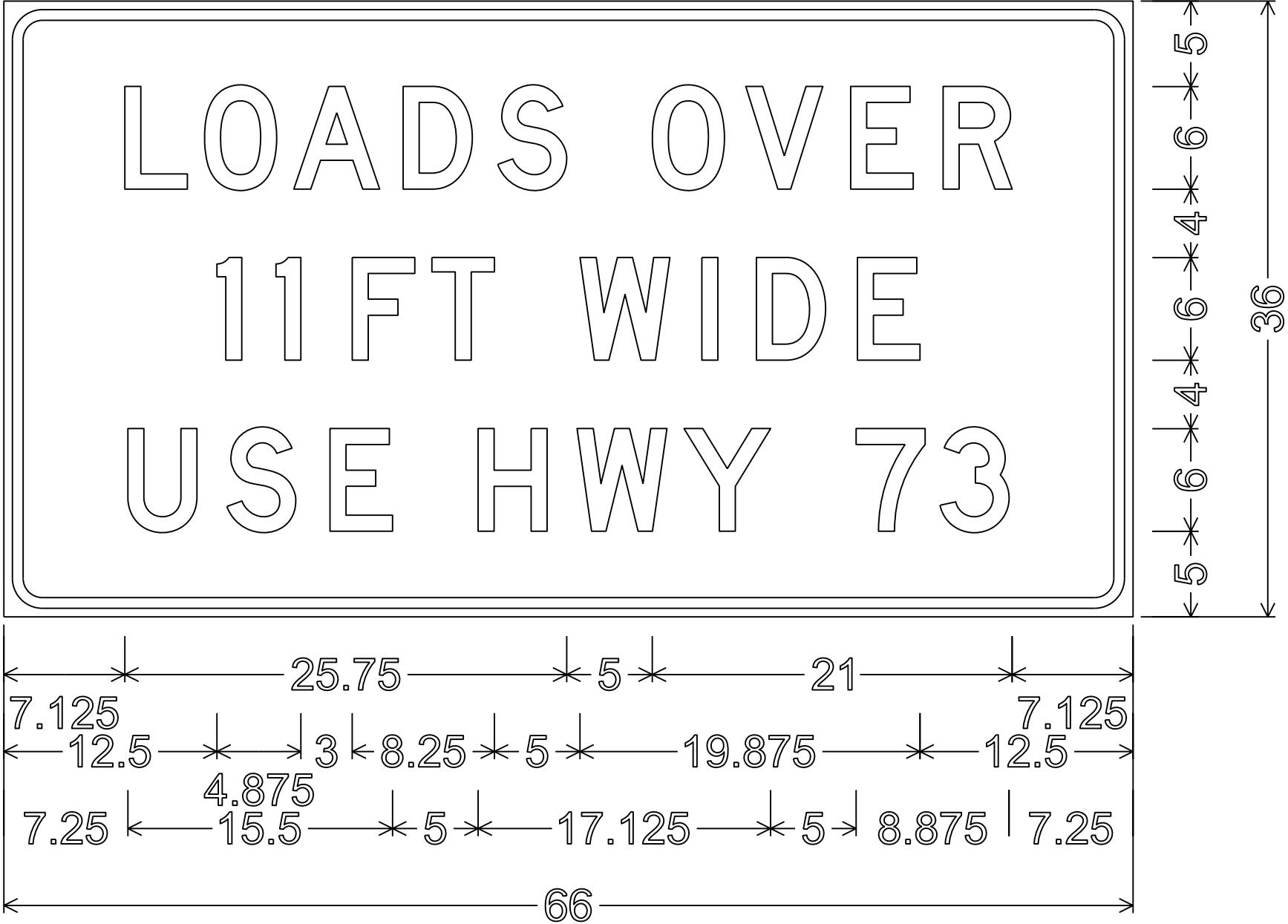


I3-1;
2.250" Radius, 0.750" Border

NOTES

- 1. Signs are Type II- Type H Reflective
- 2. Color:
Background - Green
Message - White
- 3. Message Series - E

7



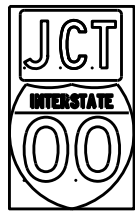
2.250" Radius, 0.625" Border, 0.500" Indent

NOTES

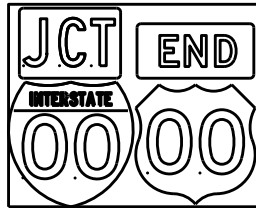
- 1. All Signs Type II - Type F Reflective
- 2. Color:
 - Background - Orange
 - Message - Black
- 3. Message Series - D

7

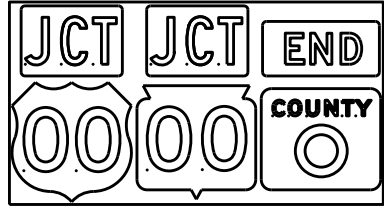
TYPICAL ASSEMBLIES



J1-1



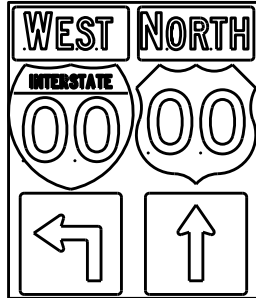
J1-2



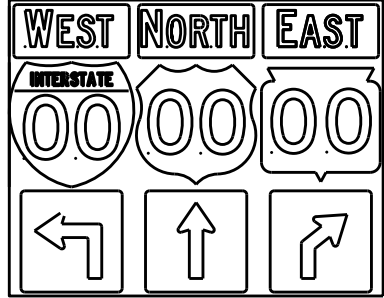
J1-3



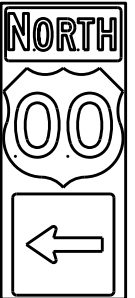
J2-1



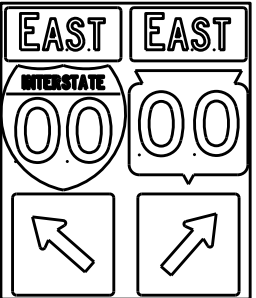
J2-2



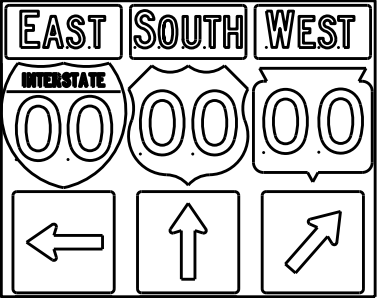
J2-3



J3-1



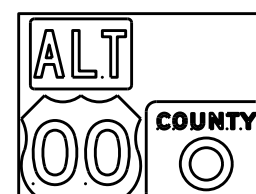
J3-2



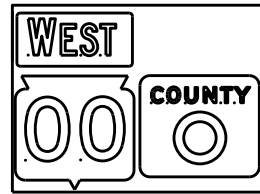
J3-3



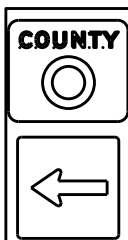
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

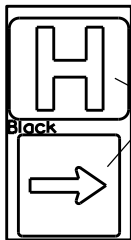


J22-1



JV

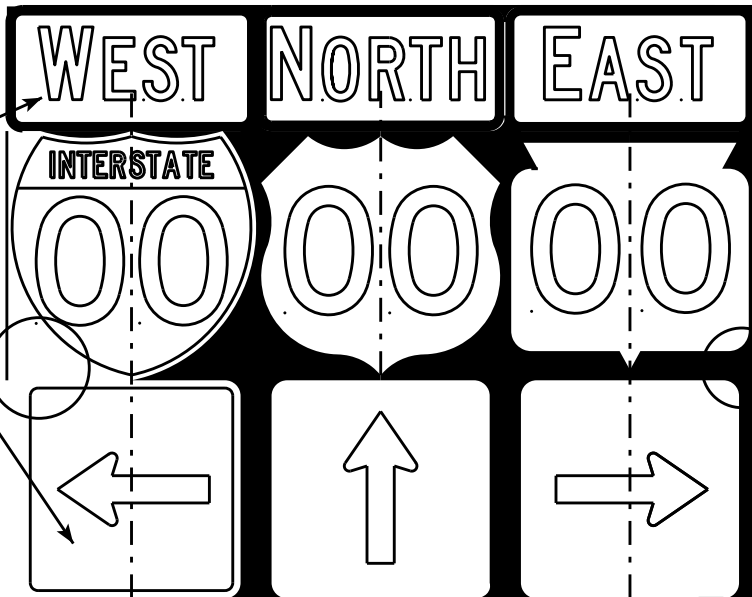
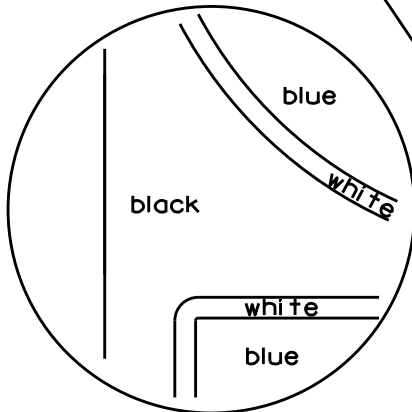
(Typical Vertical J-Assembly
See Note 10 and 11)



JH-1

Blue Background

[blue background
with interstate]



[black background]

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

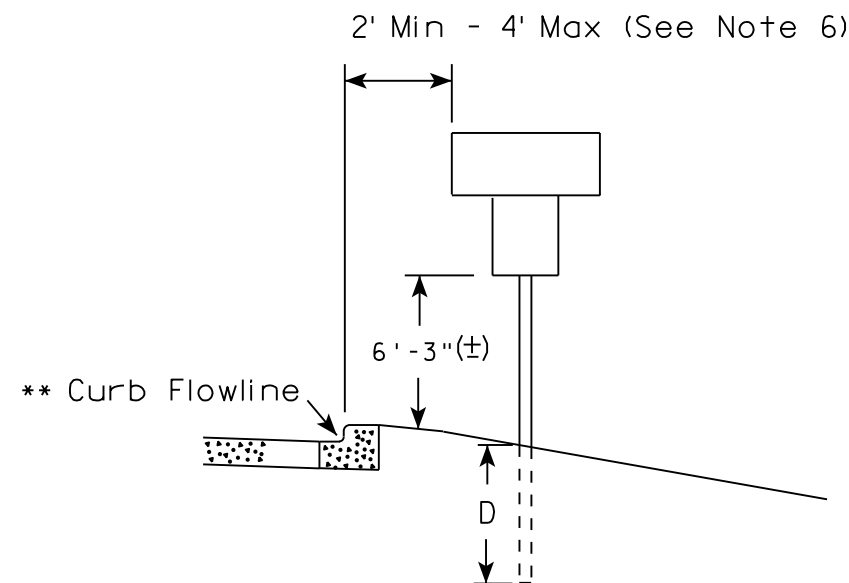
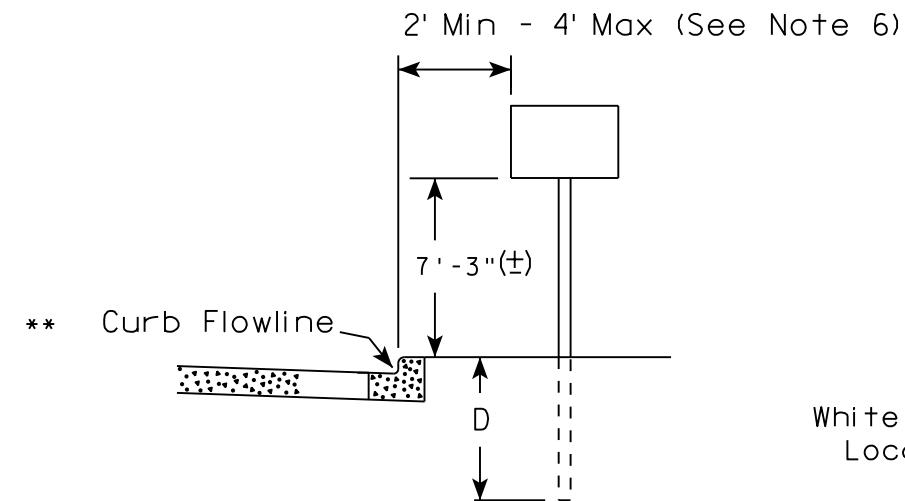
DATE 2/06/14 PL 157 A2-1S.8

SHEET NO: E

NOTES

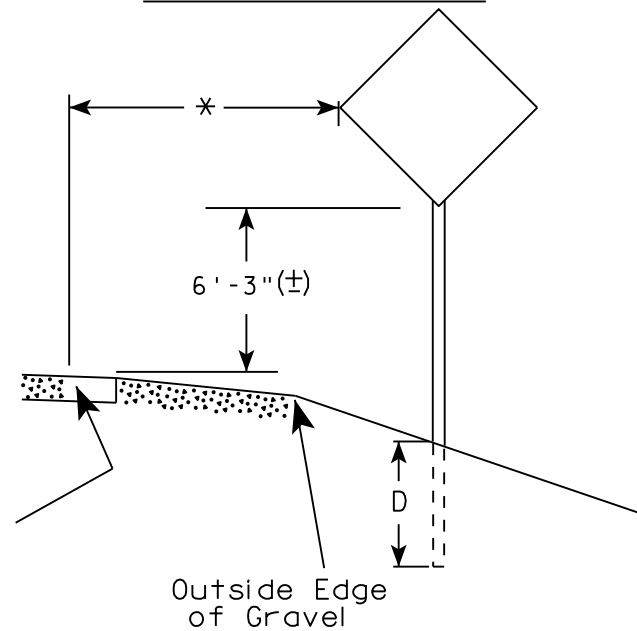
1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Black Non-reflective
Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

URBAN AREA

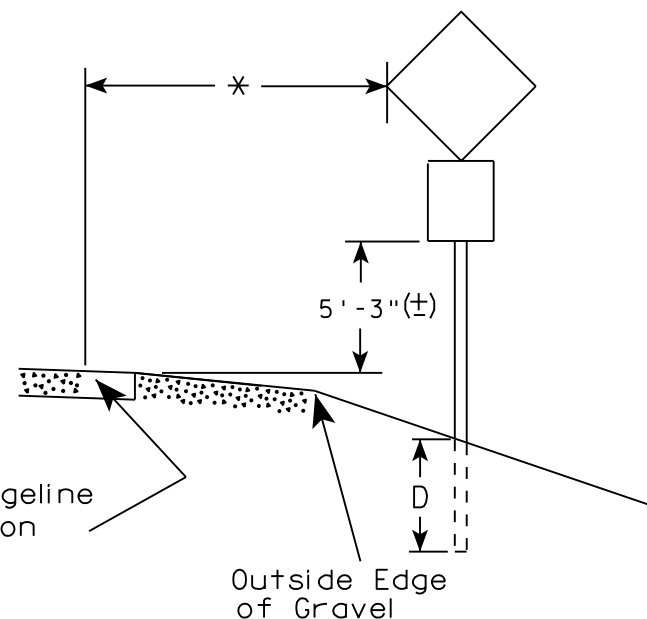


White Edgeline
Location

RURAL AREA (See Note 2)



White Edgeline
Location



Outside Edge
of Gravel

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'-3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

✱✱ The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

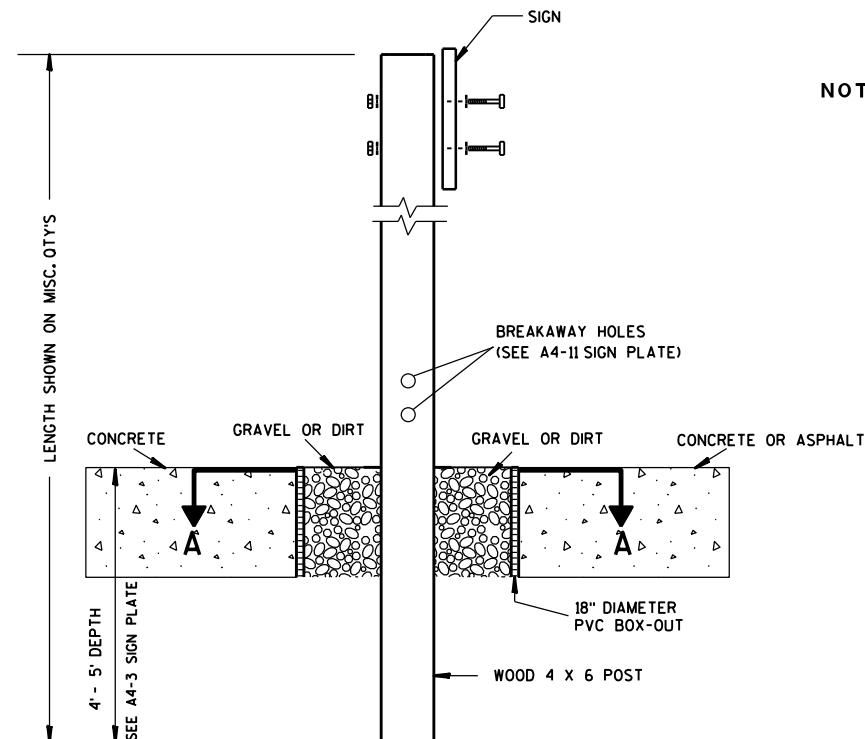
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 158

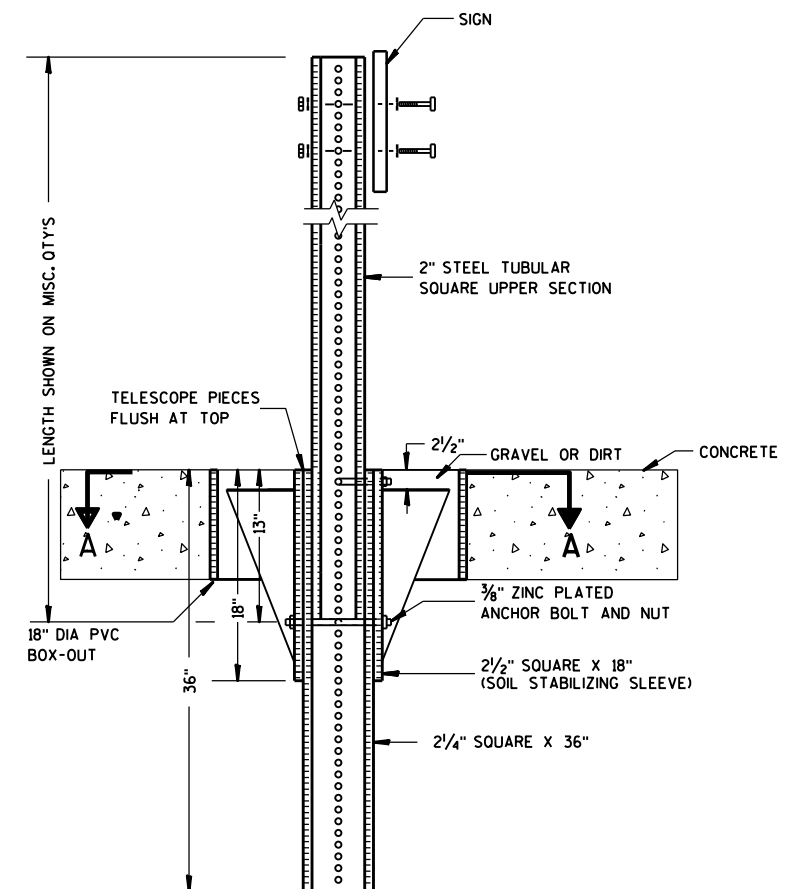
E



ELEVATION VIEW

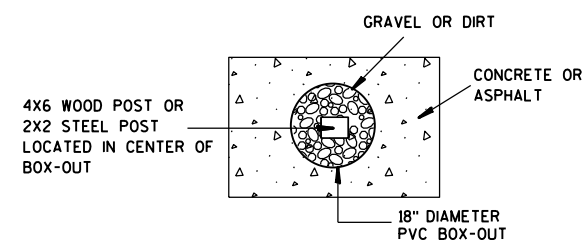
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- NOTES: 1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST
BOX-OUTS
A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 1/27/14 PLAT 159 A4-3B.1

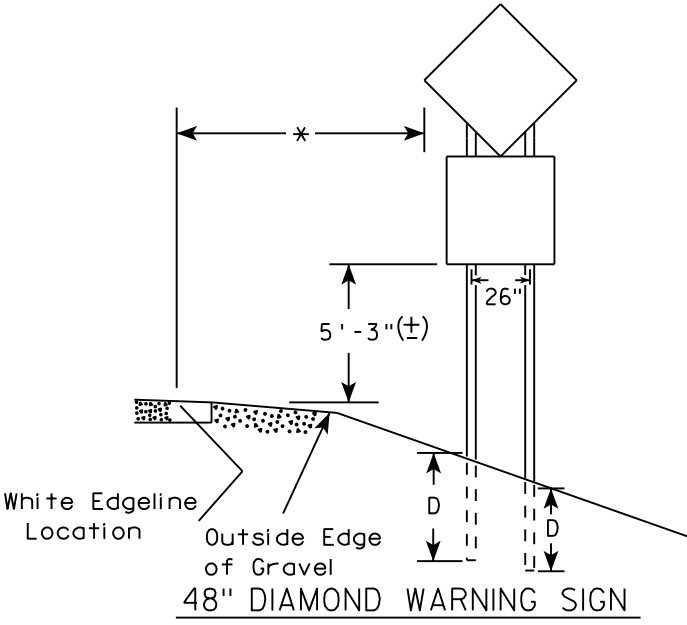
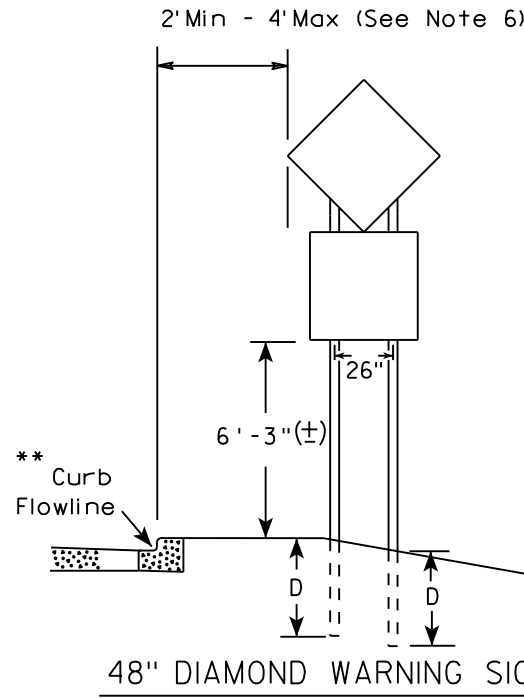
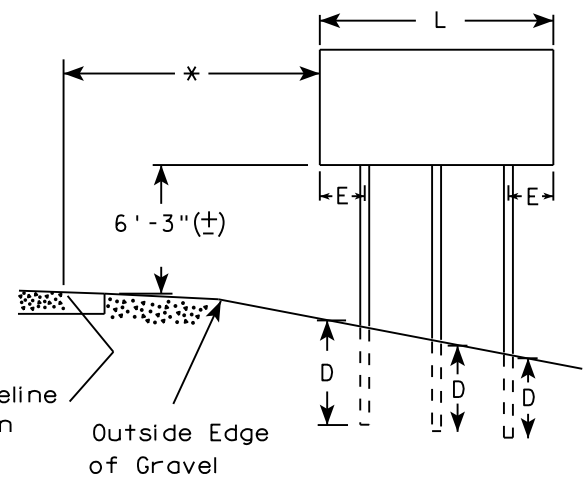
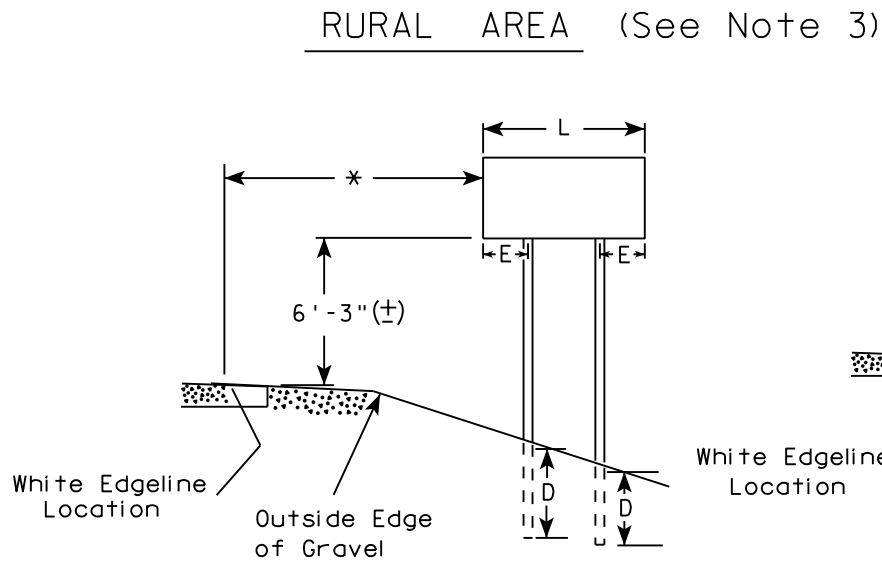
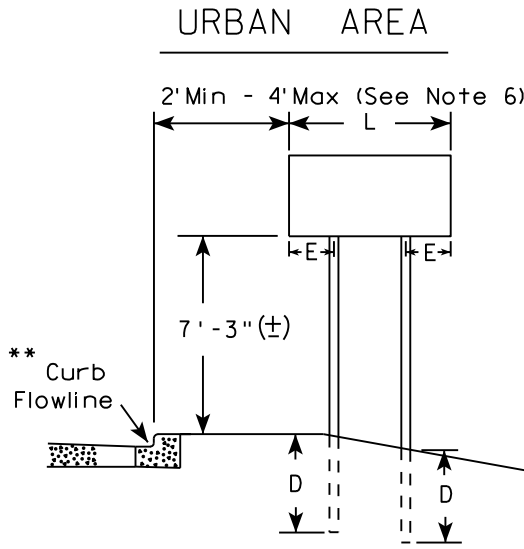
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

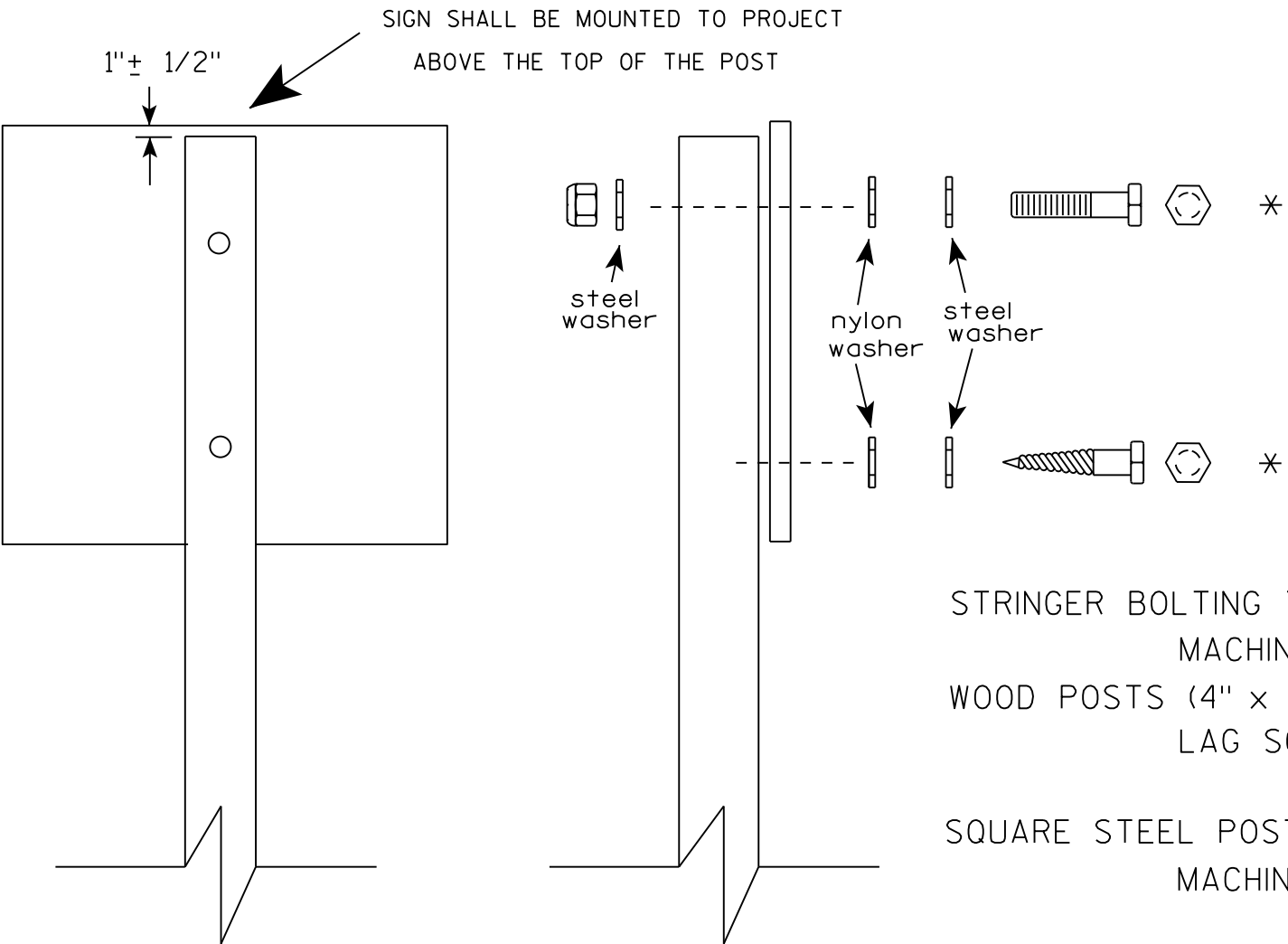
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

- GENERAL NOTES
1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
 2. See tables below for required number of posts.
 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
 4. The (±) tolerance for mounting height is 3 inches.
 5. J-Assemblies are considered to be one sign for mounting height.
 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
 7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- *** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
 - 3/8" X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
 - 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
- O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
 - 1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 8/11/16 PLATE NO. A4-8.8
161

**2 1/4" SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH**

4" x 10" x 10 GA. ———→
STEEL PLATE (CUT
AS SHOWN) WELDED
TO ALL FOUR CORNERS
OF TELESPAR TUBE

**2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH**

[illegible]

TECHNICAL DRAWING OF A SIGNPOST ASSEMBLY.

Side View Dimensions:

- Overall height: 36"
- Section A: 18"
- Section B: 12"

End View Dimensions:

- Overall width: 2 1/4" SQUARE X 36"
- Section A: 1 1/2" SQUARE X 18" (SOIL STABILIZING SLEEVE)
- Section B: 3/8" ZINC PLATED ANCHOR BOLT AND NUT

Material and Assembly Specifications:

- 2" STEEL TUBULAR SQUARE UPPER SECTION
- ALL HOLES 7/16" SPACED 1" C-C ALL FOUR SIDES
- 3/8" ZINC PLATED CORNER ANCHOR BOLT AND NUT
- SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL
- TELESCOPE PIECES FLUSH AT TOP
- SIGN

3/8" ZINC PLATED CORNER
ANCHOR BOLT AND NUT

DIRECTION
OF TRAFFIC

SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

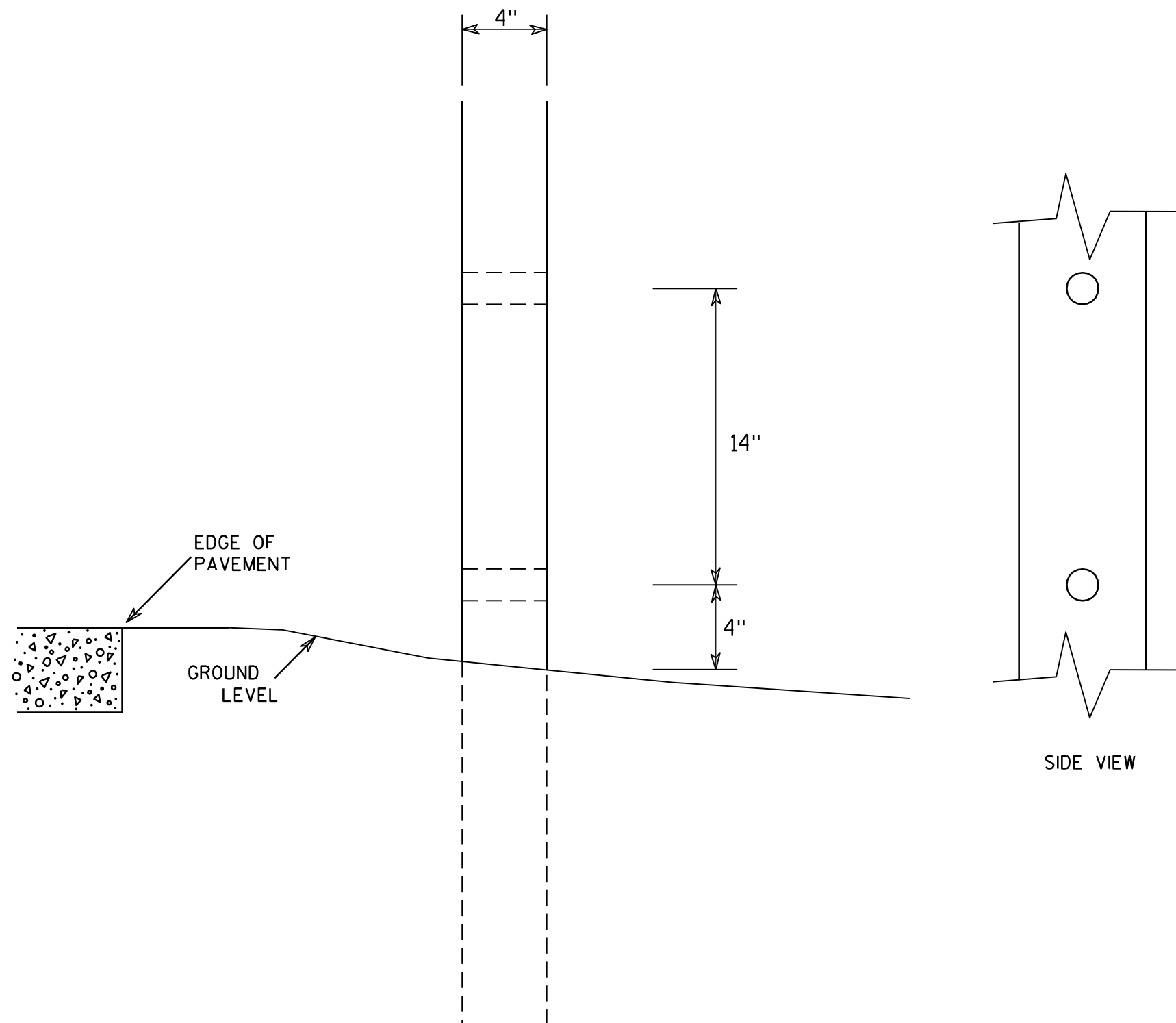
APPROVED Matthew R. Rauch

for State Traffic Engineer

DATE 2/05/15 PLATI 162 14-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E
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7



GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

HWY:

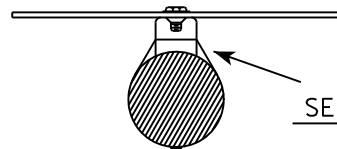
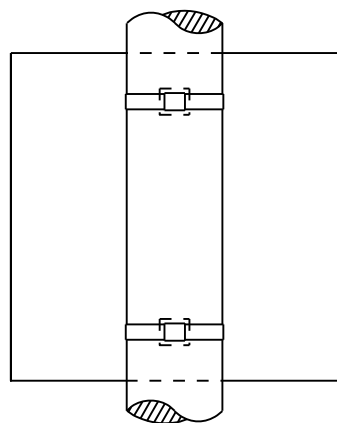
COUNTY:

SHEET NO: 163

E

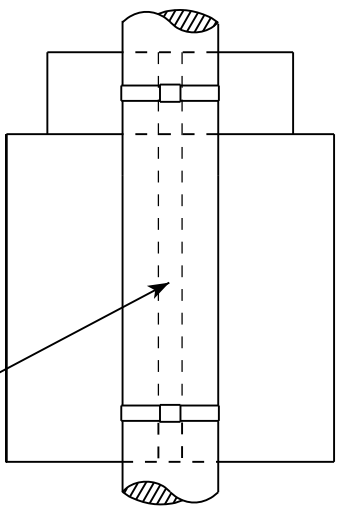
BANDING

SINGLE SIGN

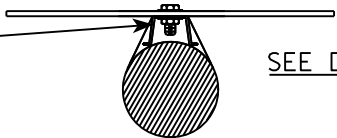


SEE DETAIL A

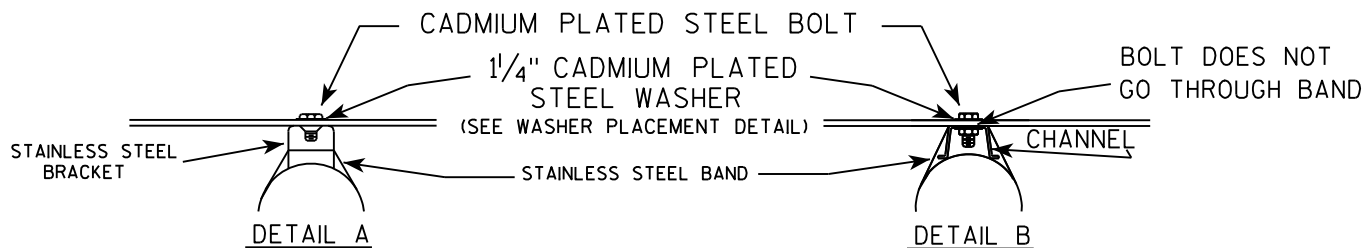
"J" ASSEMBLY



CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET



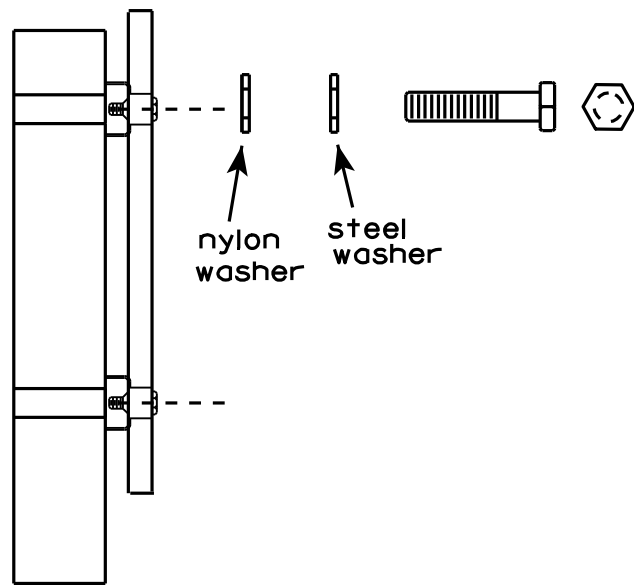
SEE DETAIL B



GENERAL NOTES

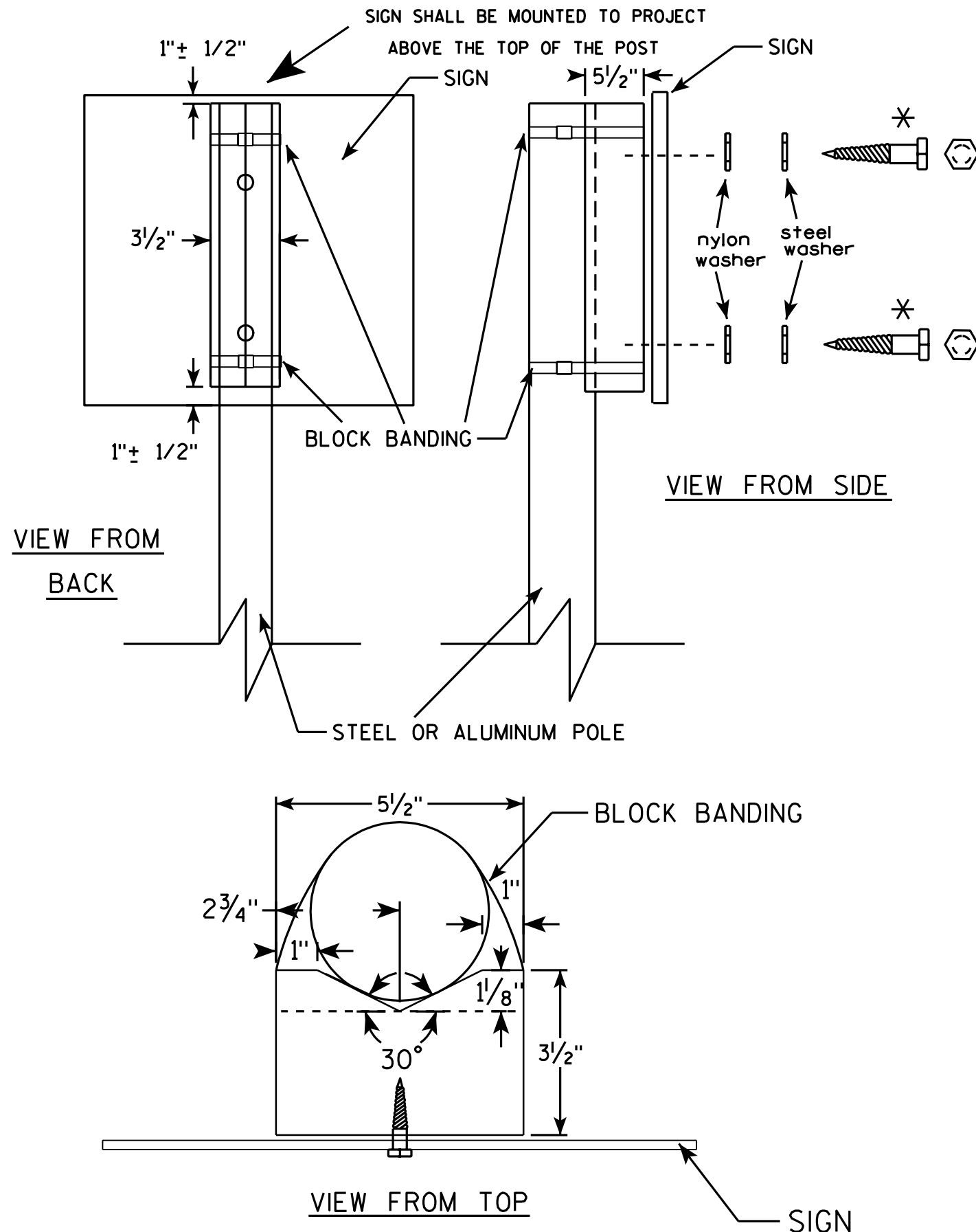
1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.

WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL
1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN SIGN BANDING DETAILS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 8/16/13	PLATE NO. A5-9.3



GENERAL NOTES

1. WOOD 4"x6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, 3/4" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORMALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
 - b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
 - c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1 1/4" O.D. X 3/8" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1 1/4" O.D. X 3/8" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✱ LAG BOLTS SHALL BE 3/8" X 2 1/2"

BLOCK BANDING DETAIL
(V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

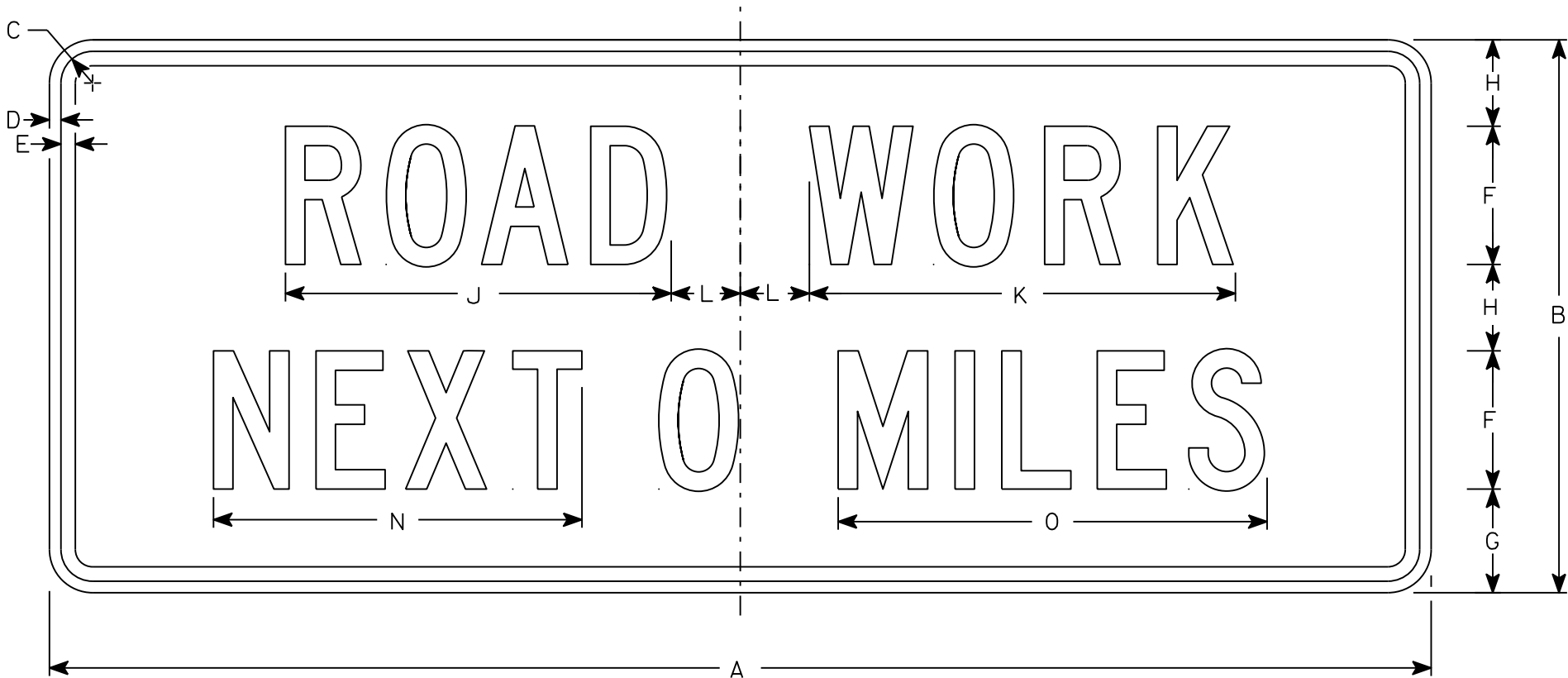
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 165

E

7



G20-1

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Orange
Message - Black
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	60	24	1 3⁄8	1⁄2	5⁄8	6	4 1⁄2	3 3⁄4		16 3⁄4	18 1⁄2	3		16	18 5⁄8												10
3																											
4	60	24	1 3⁄8	1⁄2	5⁄8	6	4 1⁄2	3 3⁄4		16 3⁄4	18 1⁄2	3		16	18 5⁄8												10
5																											

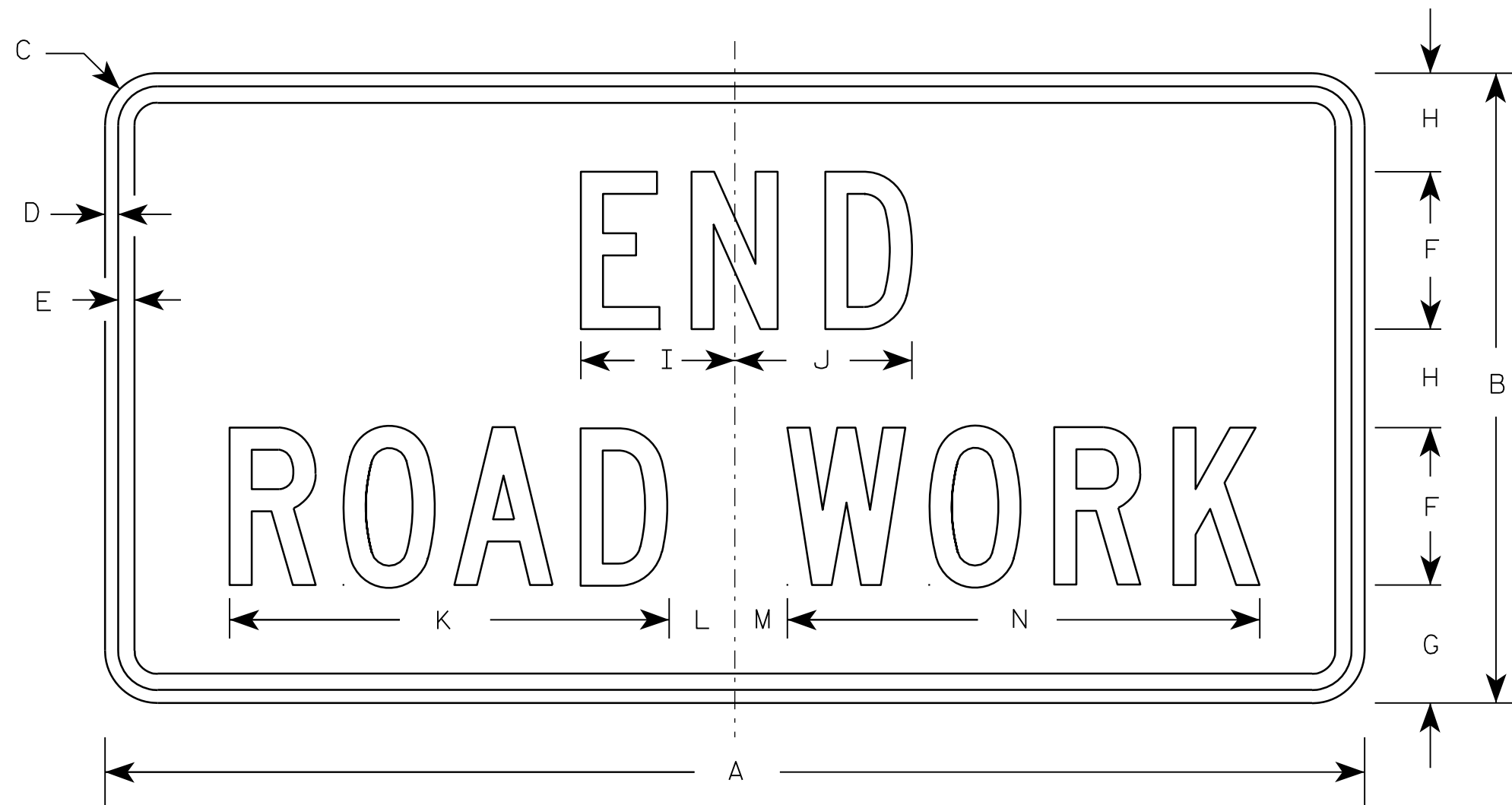
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8

7



G20-2A

Metric equivalent
for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area sq. m.
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

NOTES

- Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Orange
Message - Black
- Message Series - C
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

7

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 167

E

7

Metric equivalent
for this sign is:

SIZE	
1	
2	
3	
4	2400 mm X 1200 mm
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2																												
3																												
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 5/8	1 5/8	7	12	35 7/8	6 1/4	41 3/8	18 5/8		3 1/2									32.0	2.88
5																												

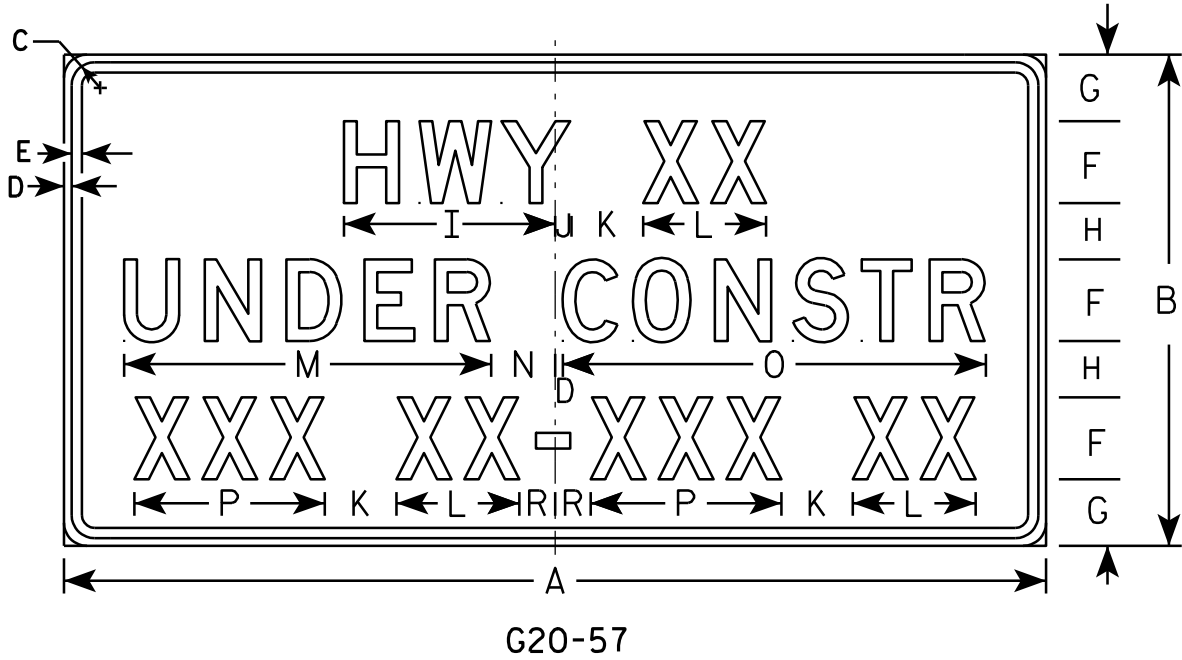
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 168

E



NOTES

- Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Orange
Message - Black
- Message Series - D
- Substitute appropriate numeral and adjust spacing to achieve proper balance.

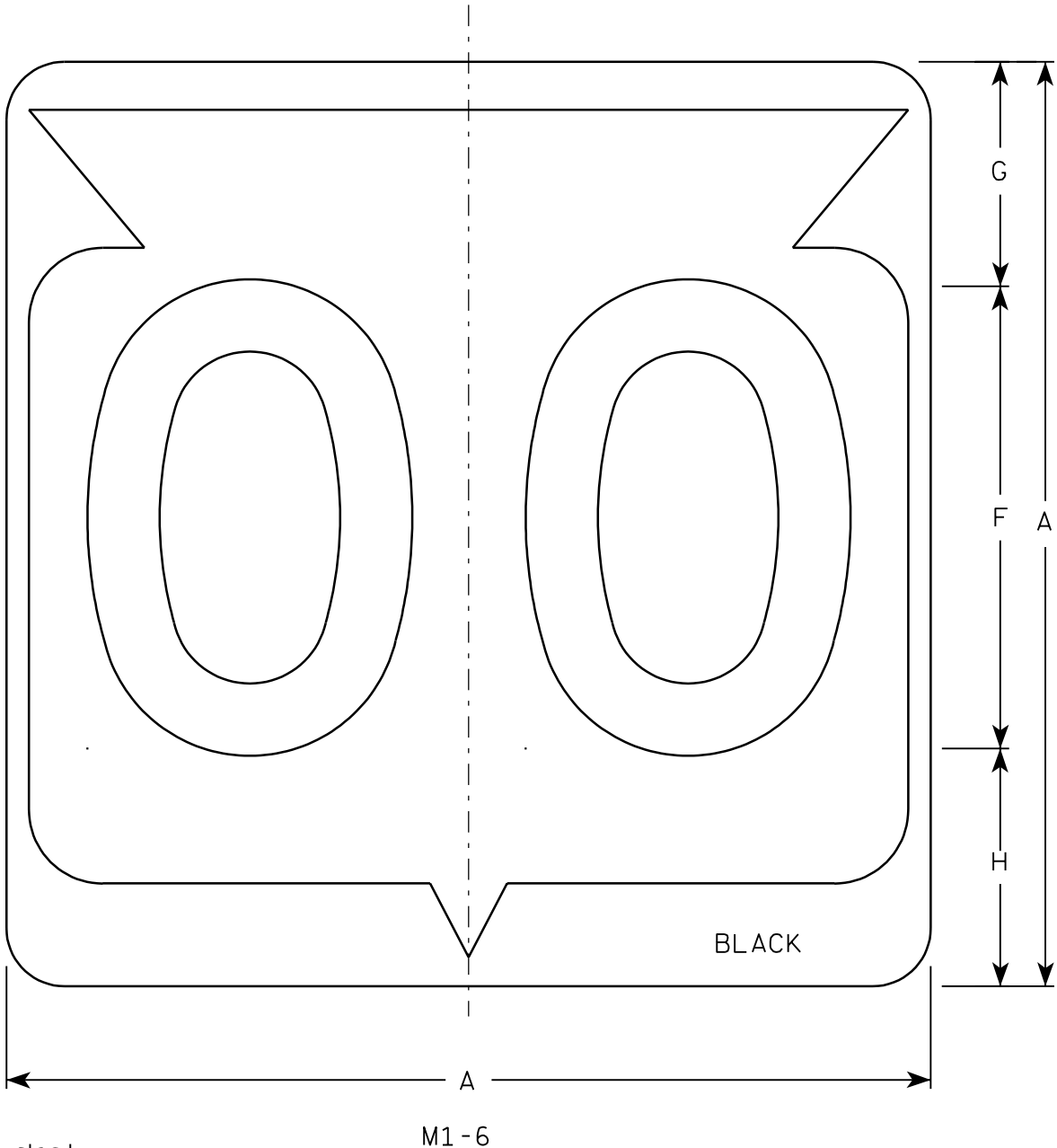
STANDARD SIGN
G20-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 7/13/09 PLATE NO. G20-57.2

7



Metric equivalent
for this sign is:

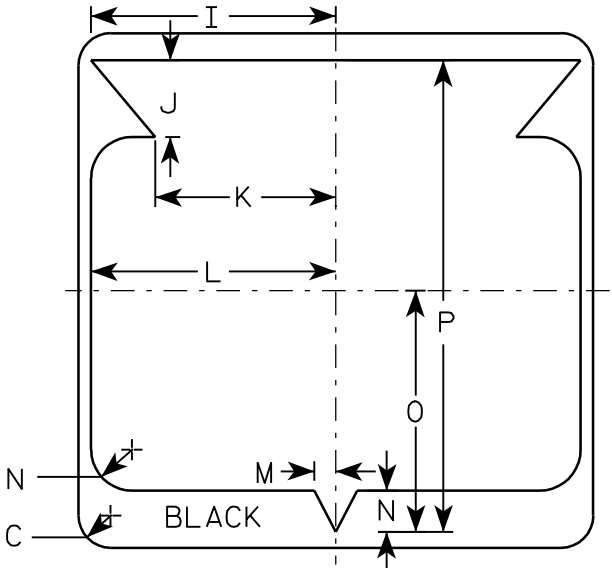
SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

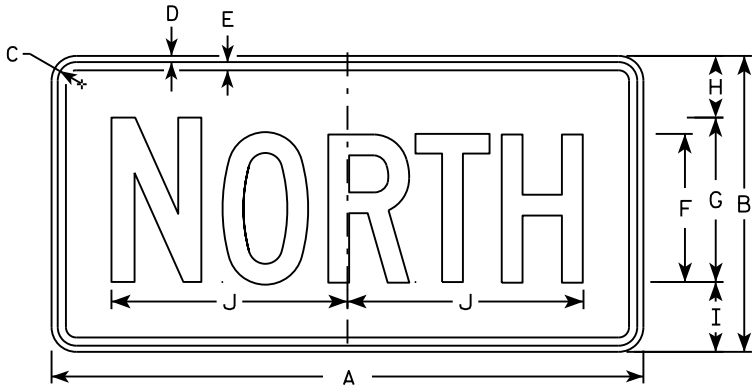
PROJECT NO:		HWY:		COUNTY:		SHEET NO: 169		E
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NOTES

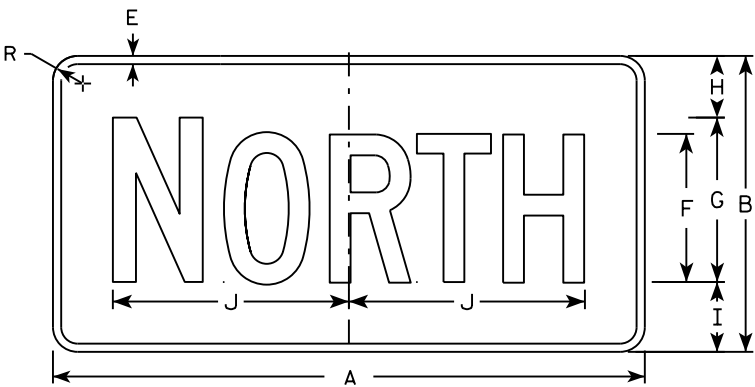
1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White & Black - See Note 6
Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective



7



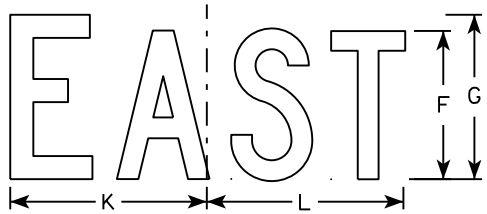
M3-1
MM3-1
MP3-1



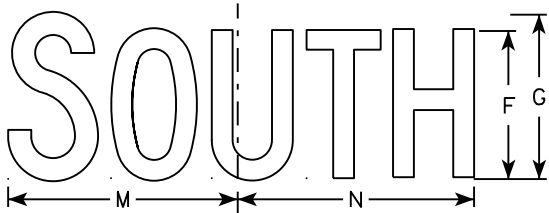
MB3-1
MK3-1
MN3-1



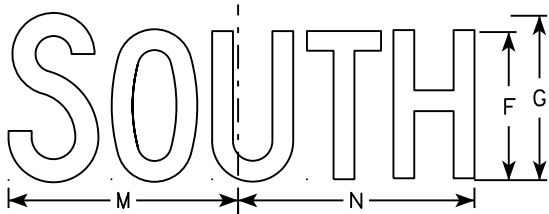
M3-2
MM3-2
MP3-2



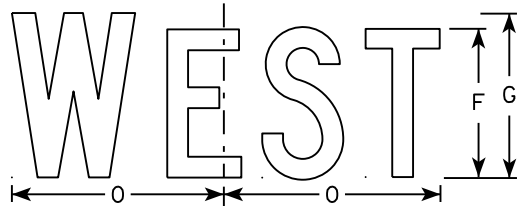
MB3-2
MK3-2
MN3-2



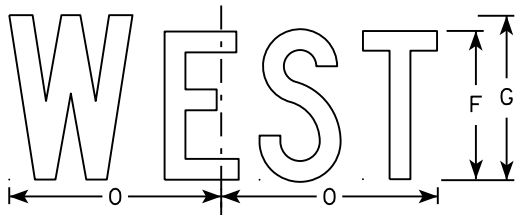
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
Background - See note 5
Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
Message - Black
MB3-1 thru MB3-4 Background - Blue
Message - White
MK3-1 thru MK3-4 Background - Green
Message - White
MM3-1 thru MM3-4 Background - White
Message - Green
MN3-1 thru MN3-4 Background - Brown
Message - White
MP3-1 thru MP3-4 Background - White
Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

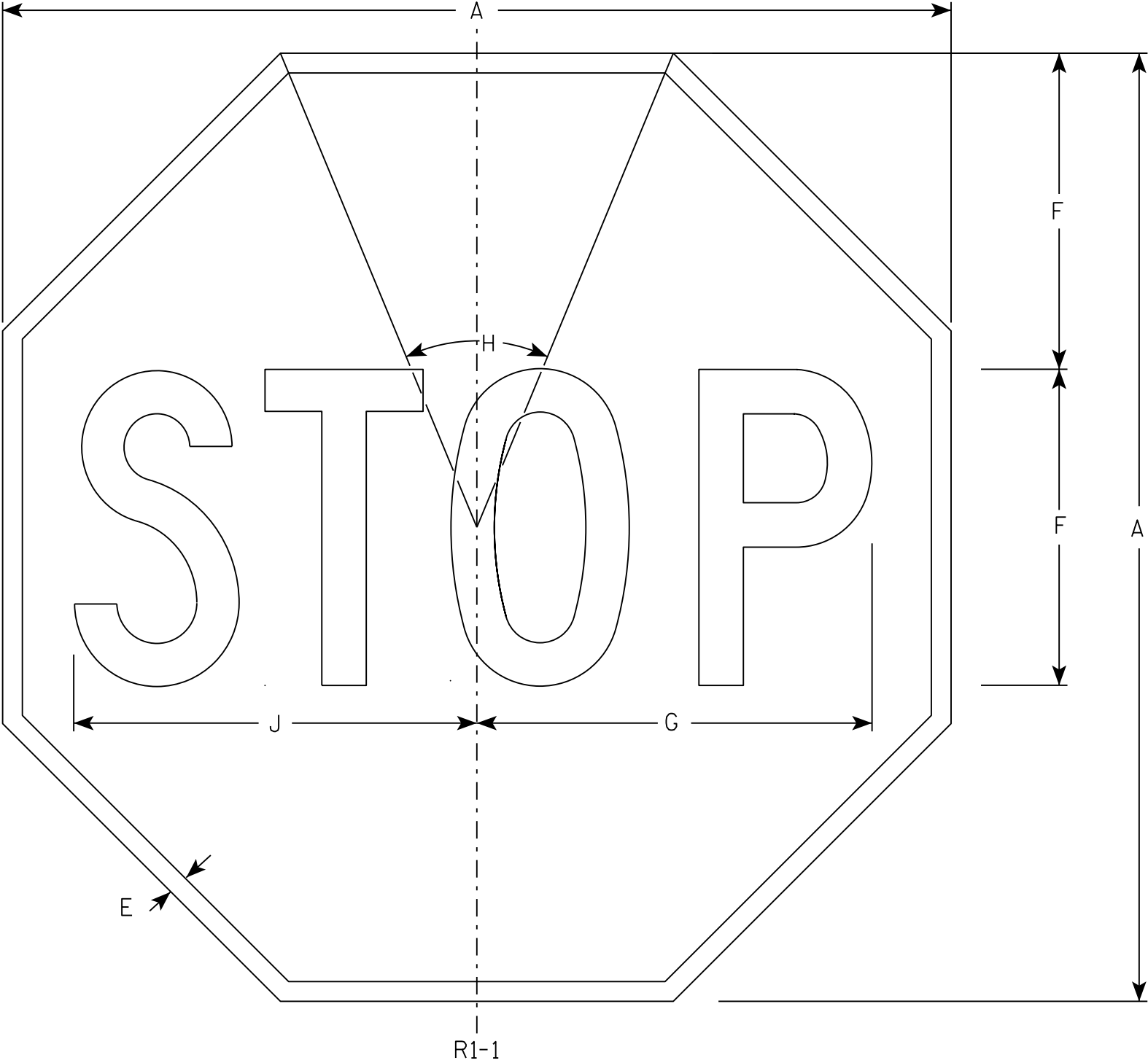
STANDARD SIGNS
M3-1 thru M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. 170 M3-1.14

7



NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Red
Message - White
- 3. Message Series - C

7

R1-1

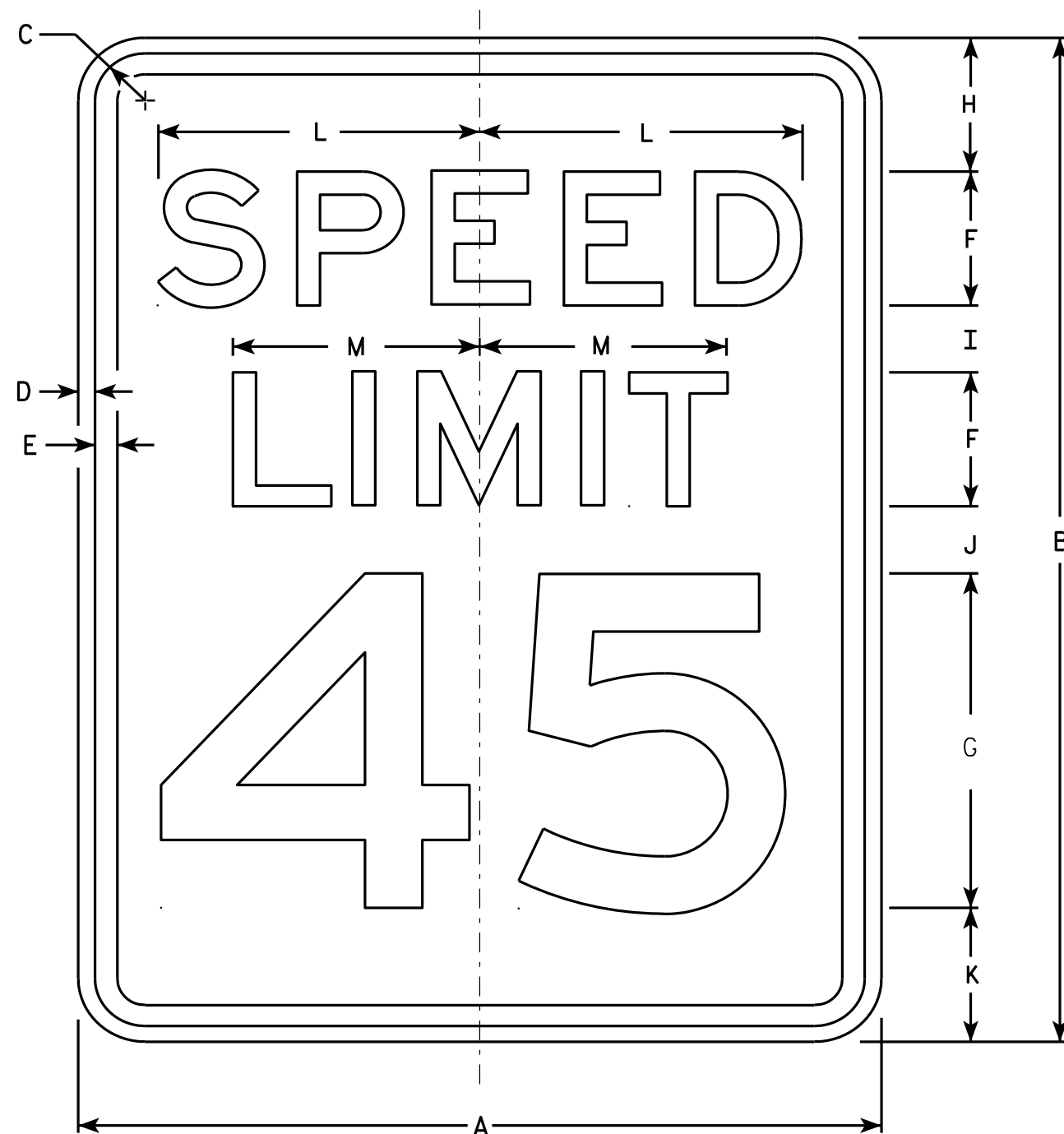
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN
R1 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13



R2-1

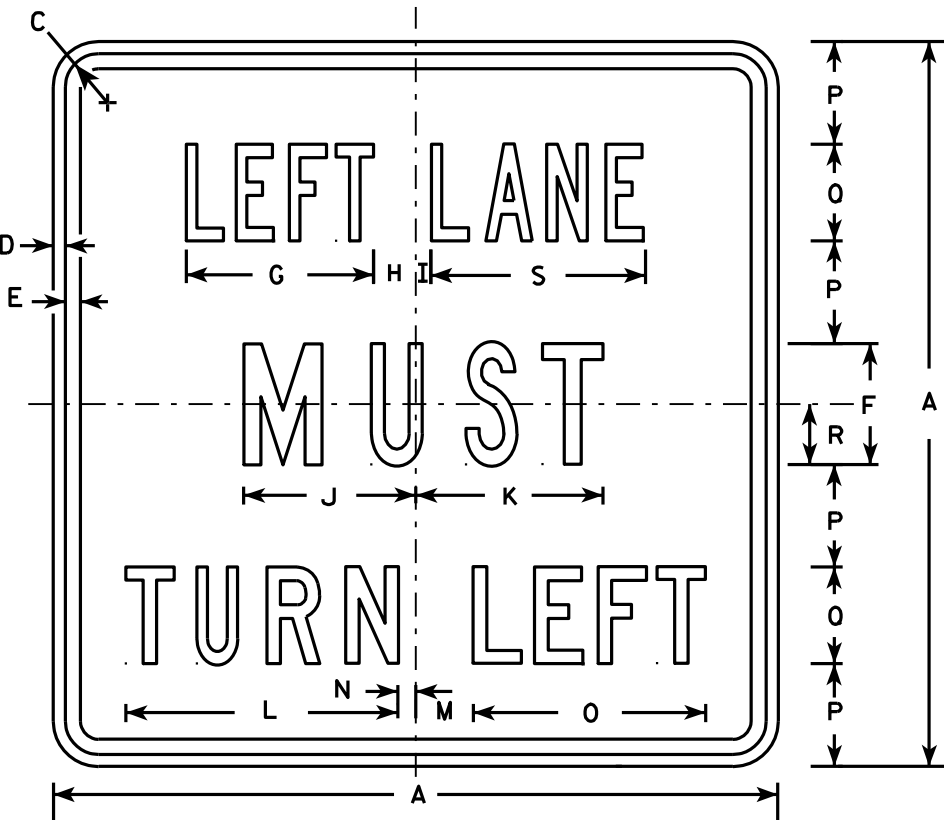
NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

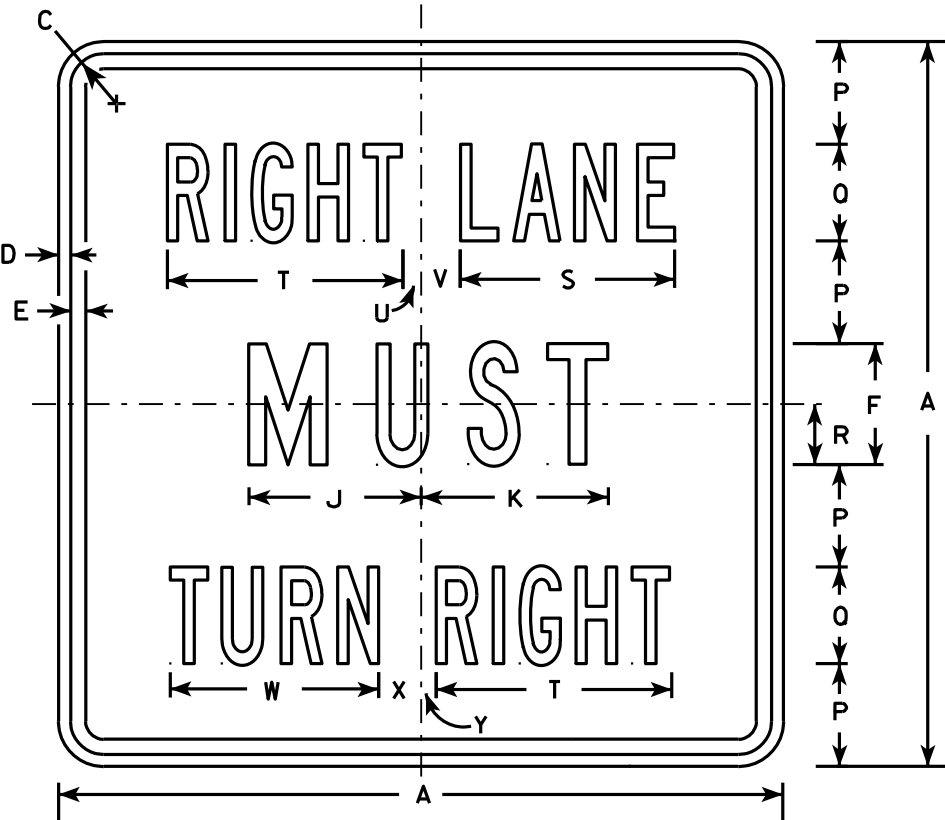
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
For State Traffic Engineer
DATE 5/26/10 PLATE NO. R2-1.13



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - Line 1 is Series B.
Line 2 is Series C.
Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

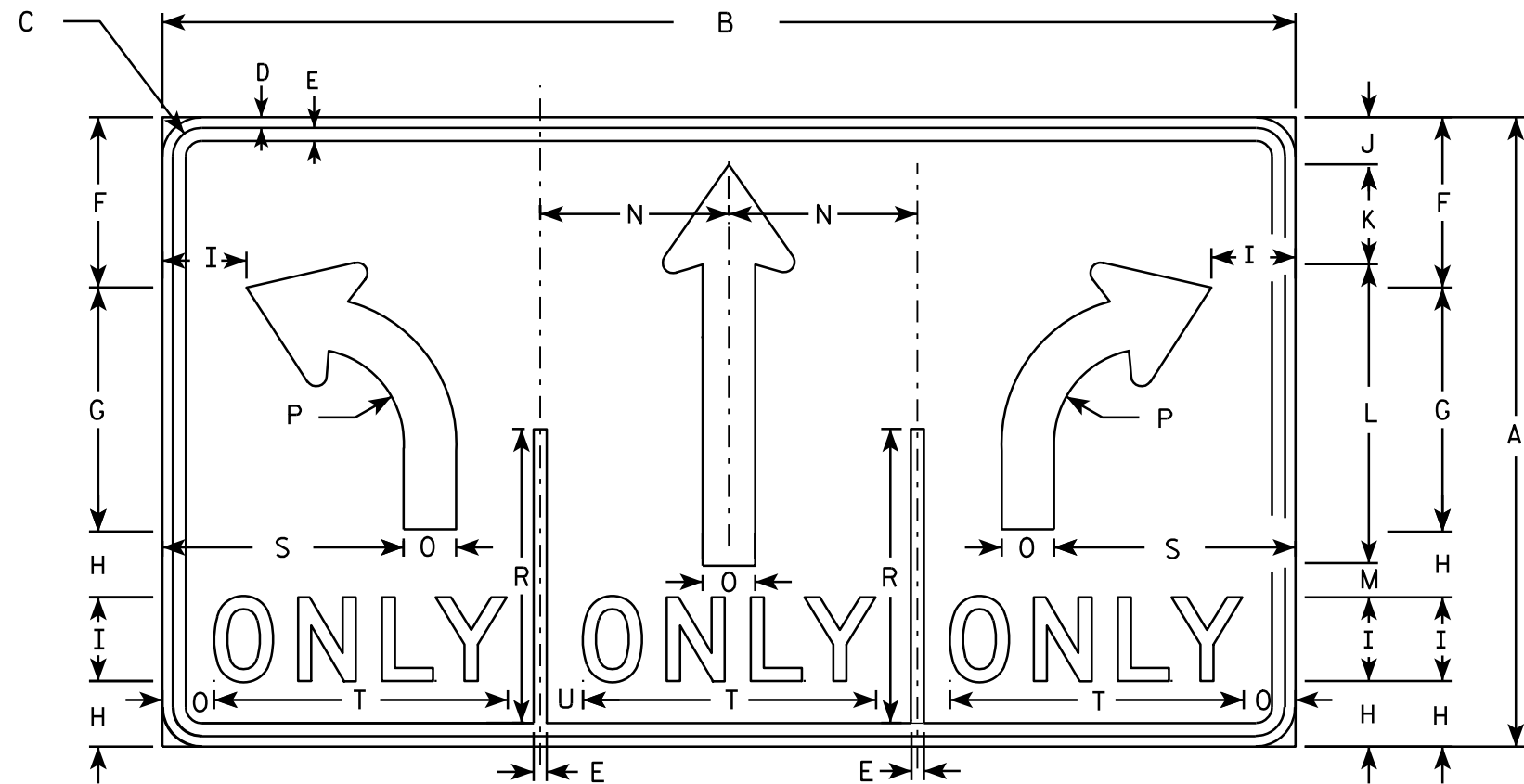
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

STANDARD SIGN
R3-7L & R3-7R

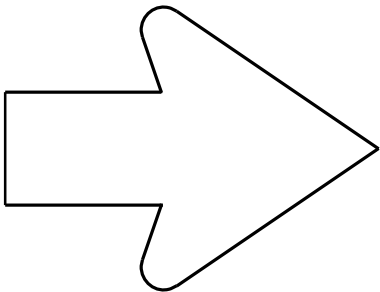
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3



R3-8W



SEE R3-8 FOR ARROW DETAIL

NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - WHITE
Message - BLACK
- 3. Message Series - D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

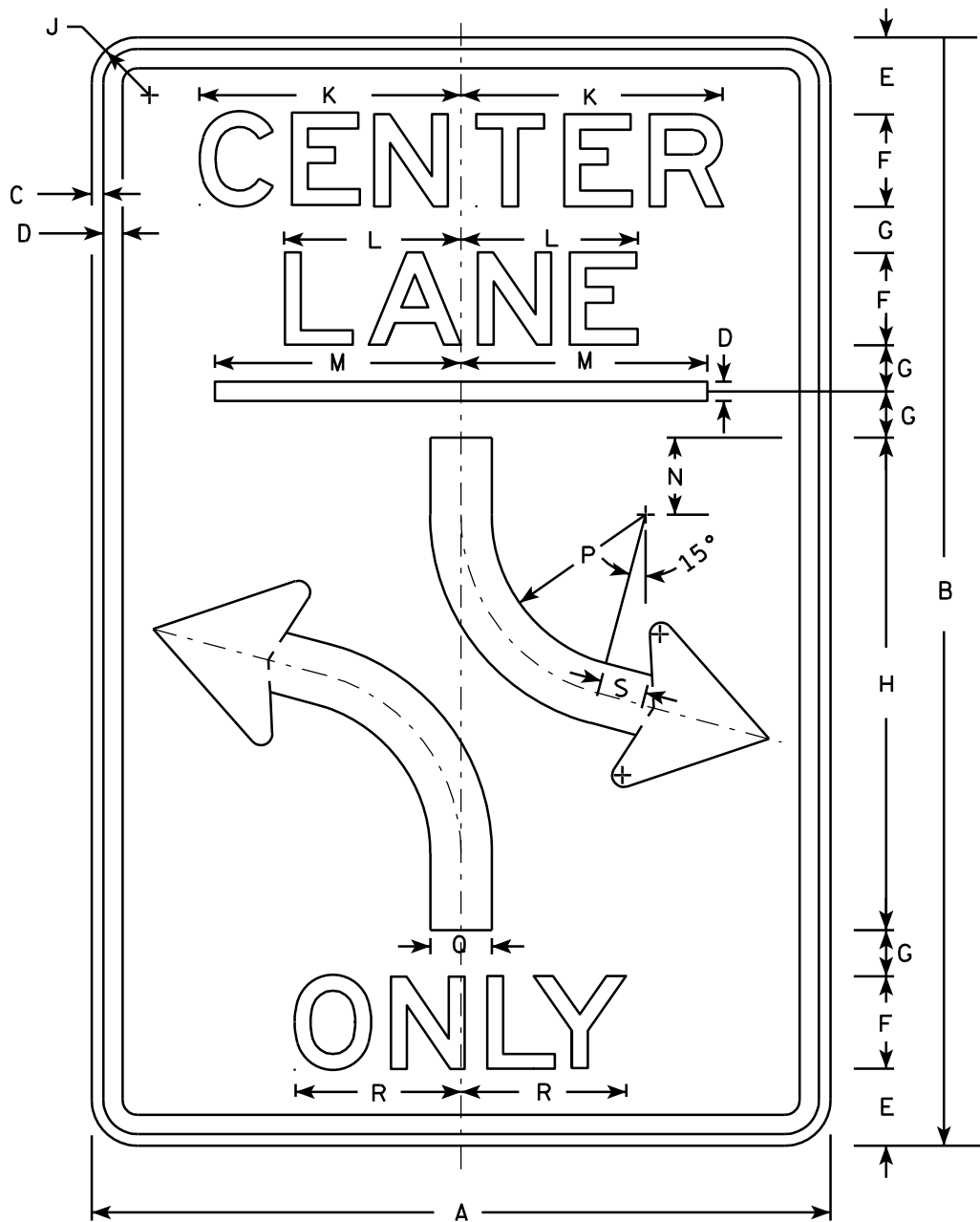
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	54	1 3⁄8	1⁄2	5⁄8	8 1⁄8	11 5⁄8	3 1⁄8	4	2 1⁄4	4 3⁄4	14 1⁄4	1 5⁄8	9	2 1⁄2	4 1⁄2		14	11 1⁄2	14	2						11.25
2M	30	54	1 3⁄8	1⁄2	5⁄8	8 1⁄8	11 5⁄8	3 1⁄8	4	2 1⁄4	4 3⁄4	14 1⁄4	1 5⁄8	9	2 1⁄2	4 1⁄2		14	11 1⁄2	14	2						11.25
3																											
4	48	84	2 1⁄4	3⁄4	1	13	18 1⁄2	5 1⁄4	6	3 3⁄4	7	29 1⁄8	2 3⁄8	14	3 3⁄4	7 1⁄4		22 3⁄8	17 1⁄4	20 1⁄2	3 1⁄4						28.0
5	48	84	2 1⁄4	3⁄4	1	13	18 1⁄2	5 1⁄4	6	3 3⁄4	7	29 1⁄8	2 7⁄8	14	3 3⁄4	7 1⁄4		22 3⁄8	17 1⁄4	20 1⁄2	3 1⁄4						28.0

STANDARD SIGN
R3-8W

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

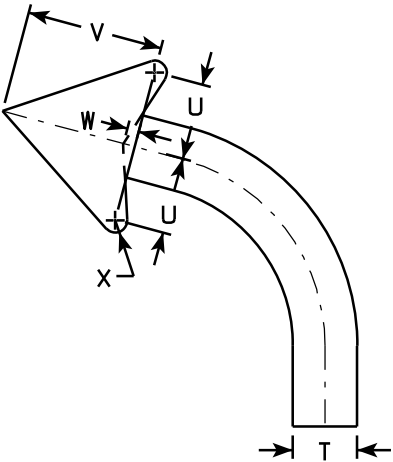
DATE 3/24/2011 PLATE NO. R3-8W.4



R3-9B

NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - White
Message - Black
- 3. Message Series - E
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	3⁄8	1⁄2	2 1⁄2	3	1 1⁄2	16		1 1⁄2	8 1⁄2	5 3⁄4	8	2 1⁄2		6	2	5 1⁄8	1 1⁄2		2 3⁄8	4 3⁄8	3⁄8				6.0
2M	24	36	3⁄8	1⁄2	2 1⁄2	3	1 1⁄2	16		1 1⁄2	8 1⁄2	5 3⁄4	8	2 1⁄2		6	2	5 1⁄8	1 1⁄2		2 3⁄8	4 3⁄8	3⁄8				6.0
3	36	48	5⁄8	7⁄8	3 1⁄2	5	1 1⁄2	20		2 1⁄4	14 1⁄8	9 1⁄2	12	3		4	3	9 7⁄8	2		3 1⁄2	6 1⁄8	1⁄2				12.0
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 175

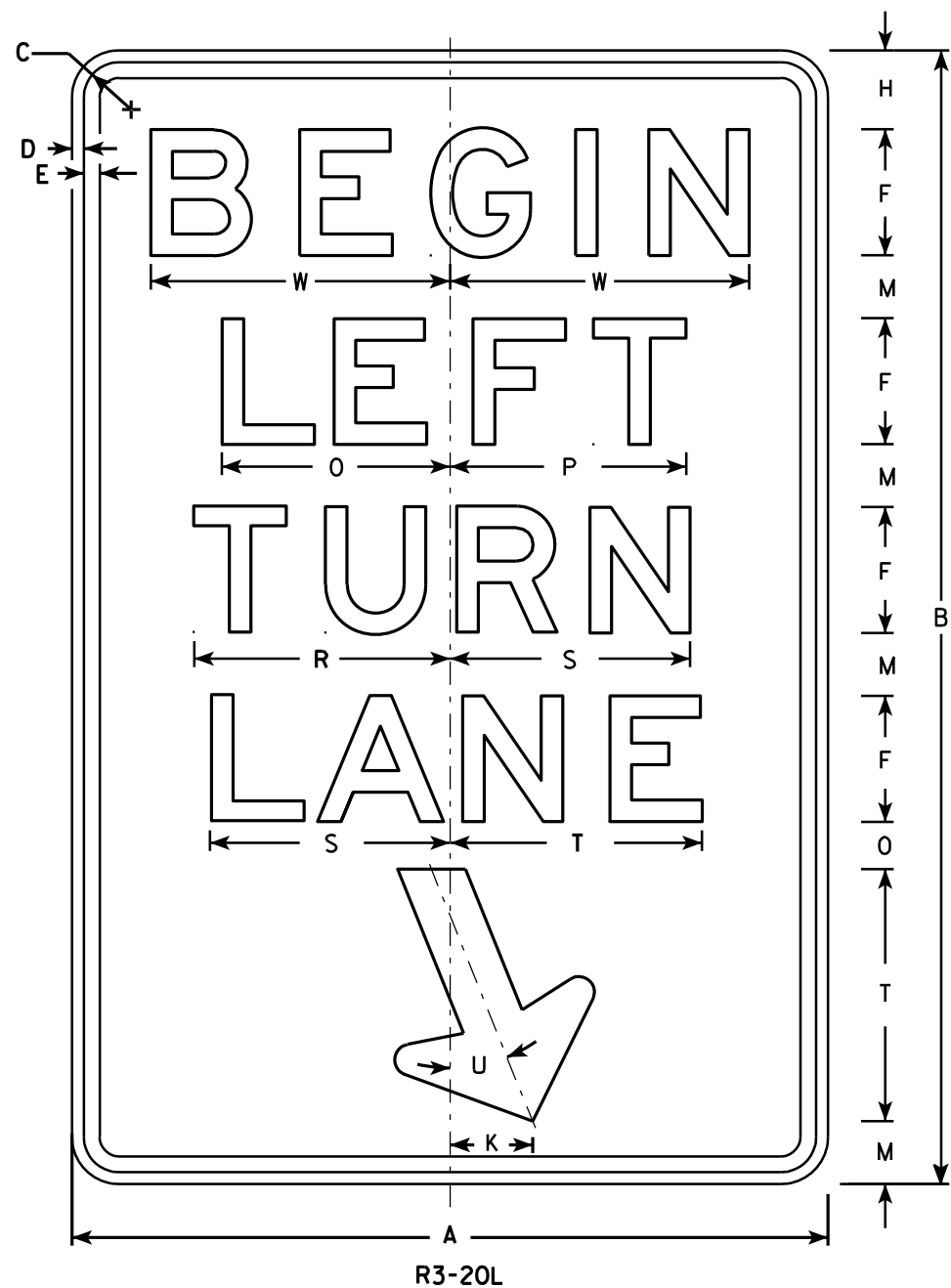
E

STANDARD SIGN
R3-9B

WISCONSIN DEPT OF TRANSPORTATION

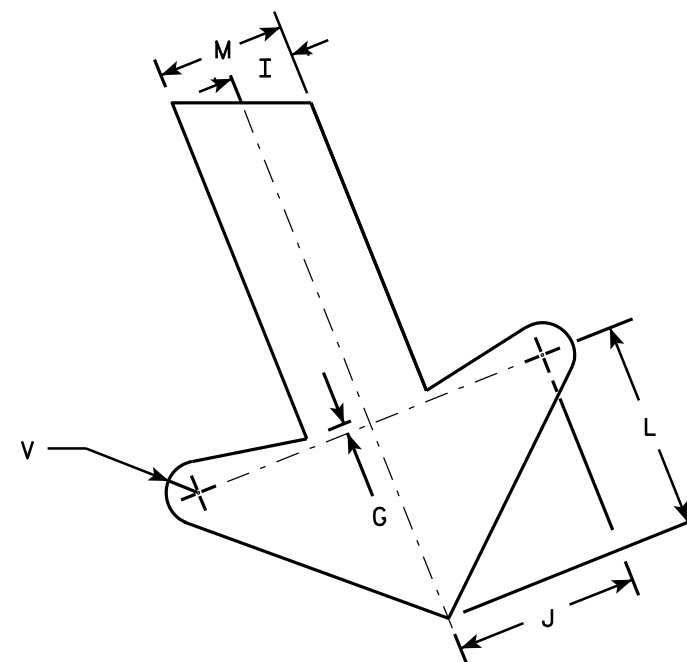
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-9B.5



NOTES

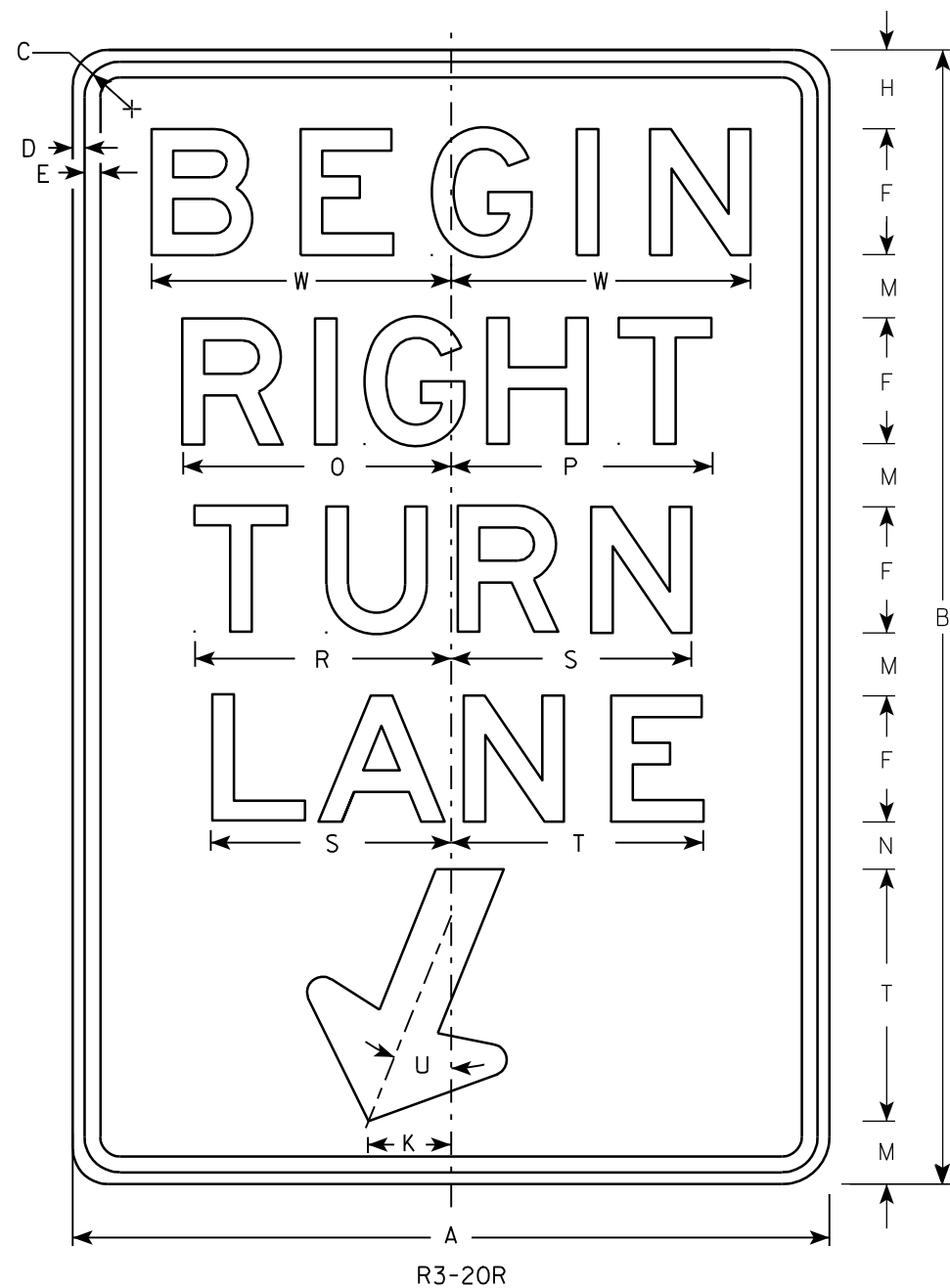
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

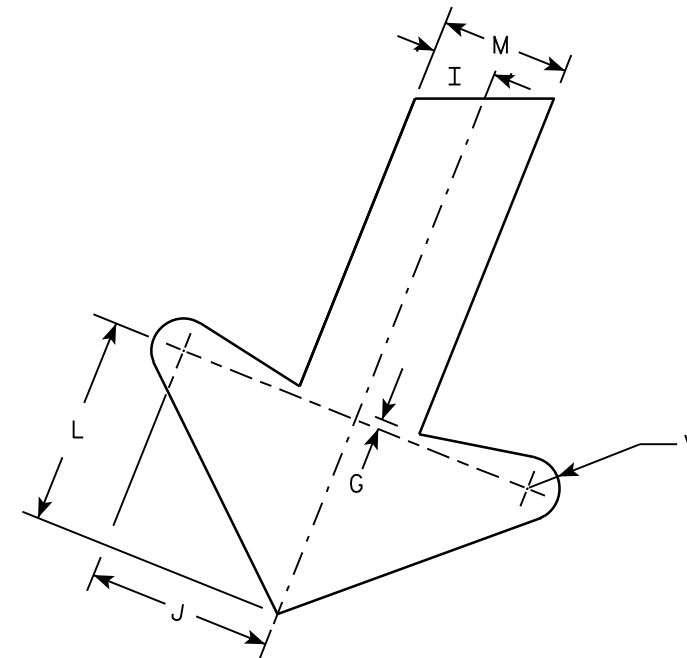
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

STANDARD SIGN R3-20L	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 10/18/10	PLATE NO. R3-20L.7



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 177	E
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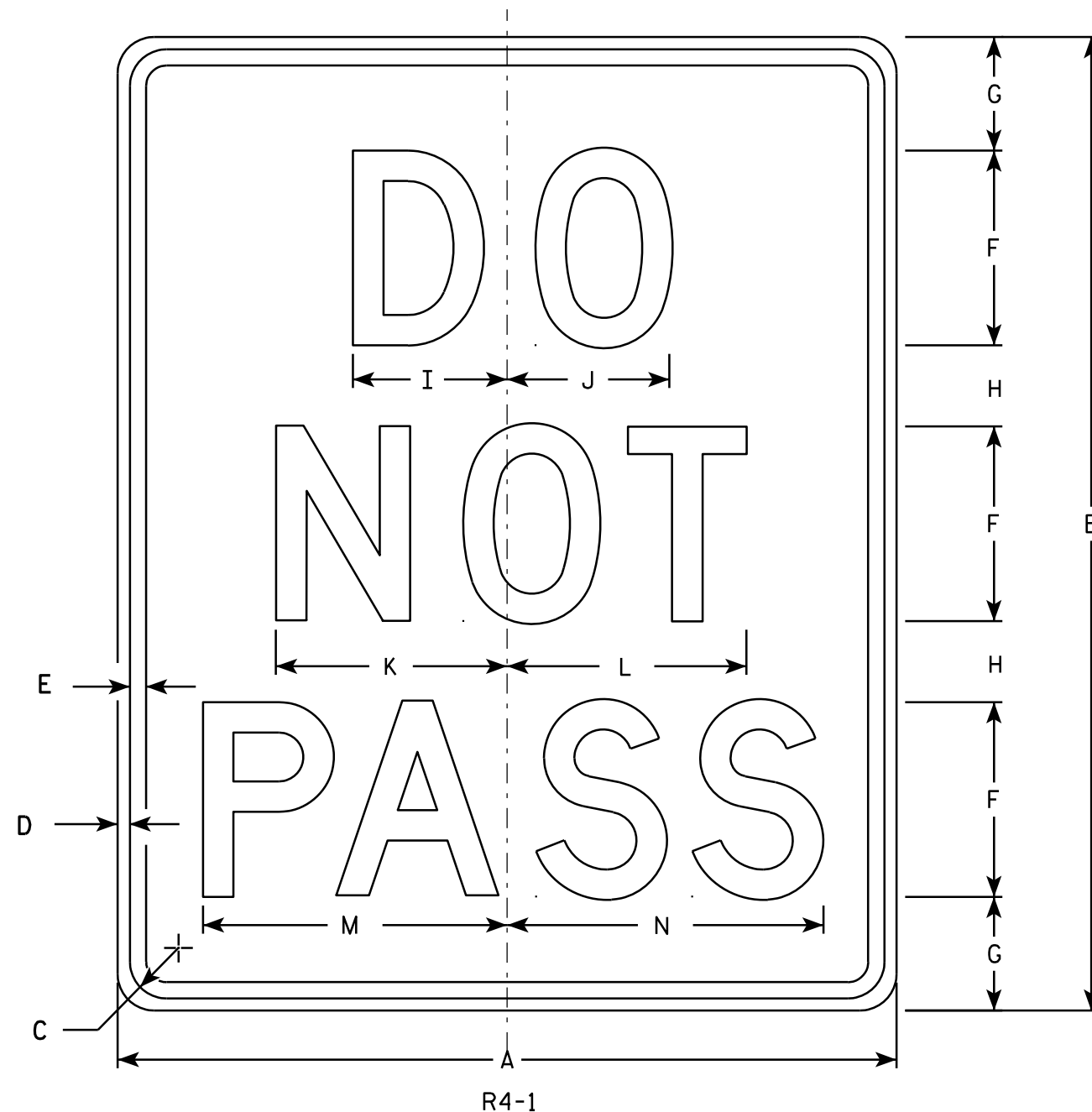
STANDARD SIGN
R3-20R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20R.6

7



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

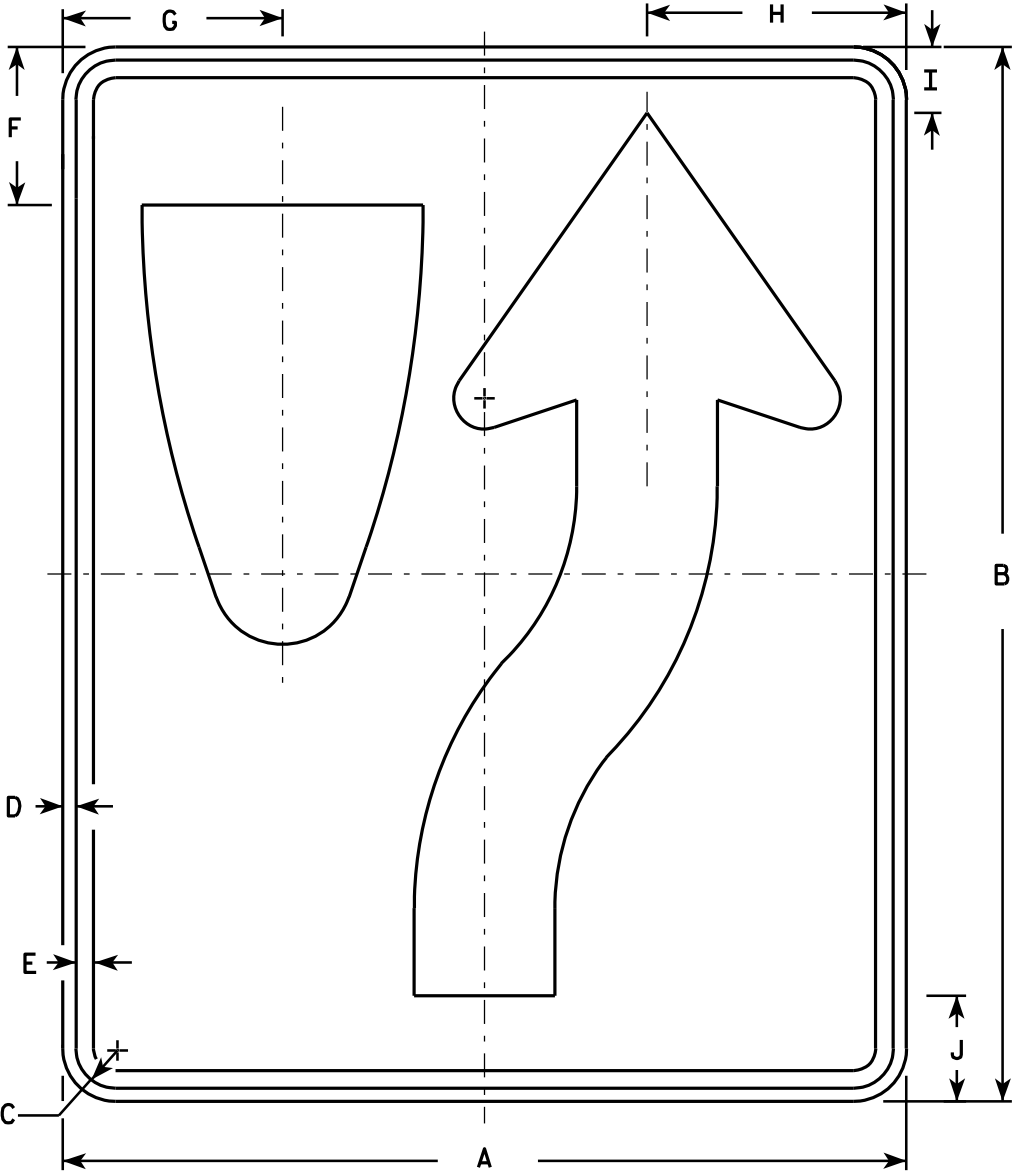
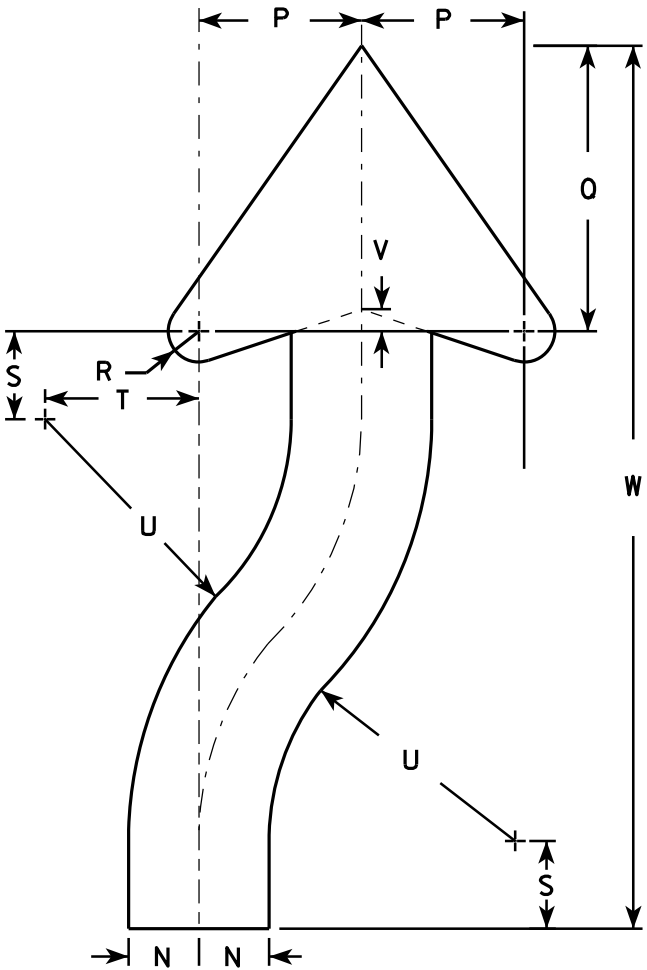
7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 1/8	3 1/4	4 3/4	4 7/8	6 1/4	6 1/2													3.0
2S	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
2M	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
3																											
4	36	48	1 5/8	5/8	3/4	8	7	5	6 1/4	6 5/8	9 1/2	9 3/4	12 1/2	13													12.0
5	48	60	2 1/4	3/4	1	10	8	7	7 3/4	8 3/8	11 7/8	12 1/4	15 5/8	16 1/4													20.0

STANDARD SIGN R4-1	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 3/25/2011	PLATE NO. R4-1.7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
Background - White
Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



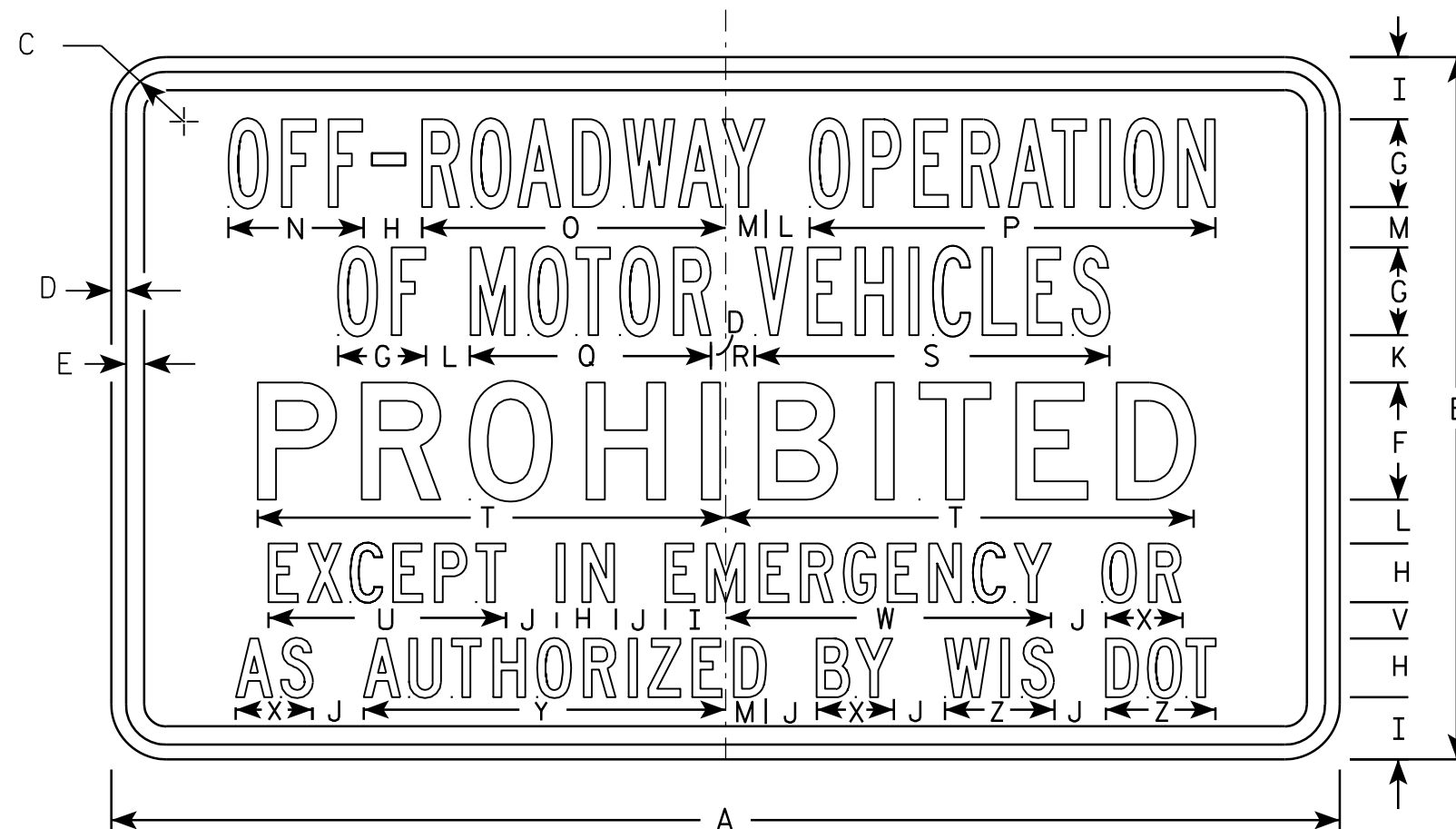
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8



R5-99

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series B.
Line 3 is Series D.
Lines 4 and 5 are Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	24	1 3⁄8	1⁄2	5⁄8	4	3	2	2 1⁄8	1 3⁄4	1 5⁄8	1 1⁄2	1 3⁄8	4 5⁄8	10 3⁄8	13 7⁄8	8 1⁄4	1	12 1⁄8	16	8 1⁄8	1 1⁄4	11 1⁄8	2 5⁄8	12 3⁄8	3 3⁄4	7.00
2M	42	24	1 3⁄8	1⁄2	5⁄8	4	3	2	2 1⁄8	1 3⁄4	1 5⁄8	1 1⁄2	1 3⁄8	4 5⁄8	10 3⁄8	13 7⁄8	8 1⁄4	1	12 1⁄8	16	8 1⁄8	1 1⁄4	11 1⁄8	2 5⁄8	12 3⁄8	3 3⁄4	7.00
3																											
4																											
5																											

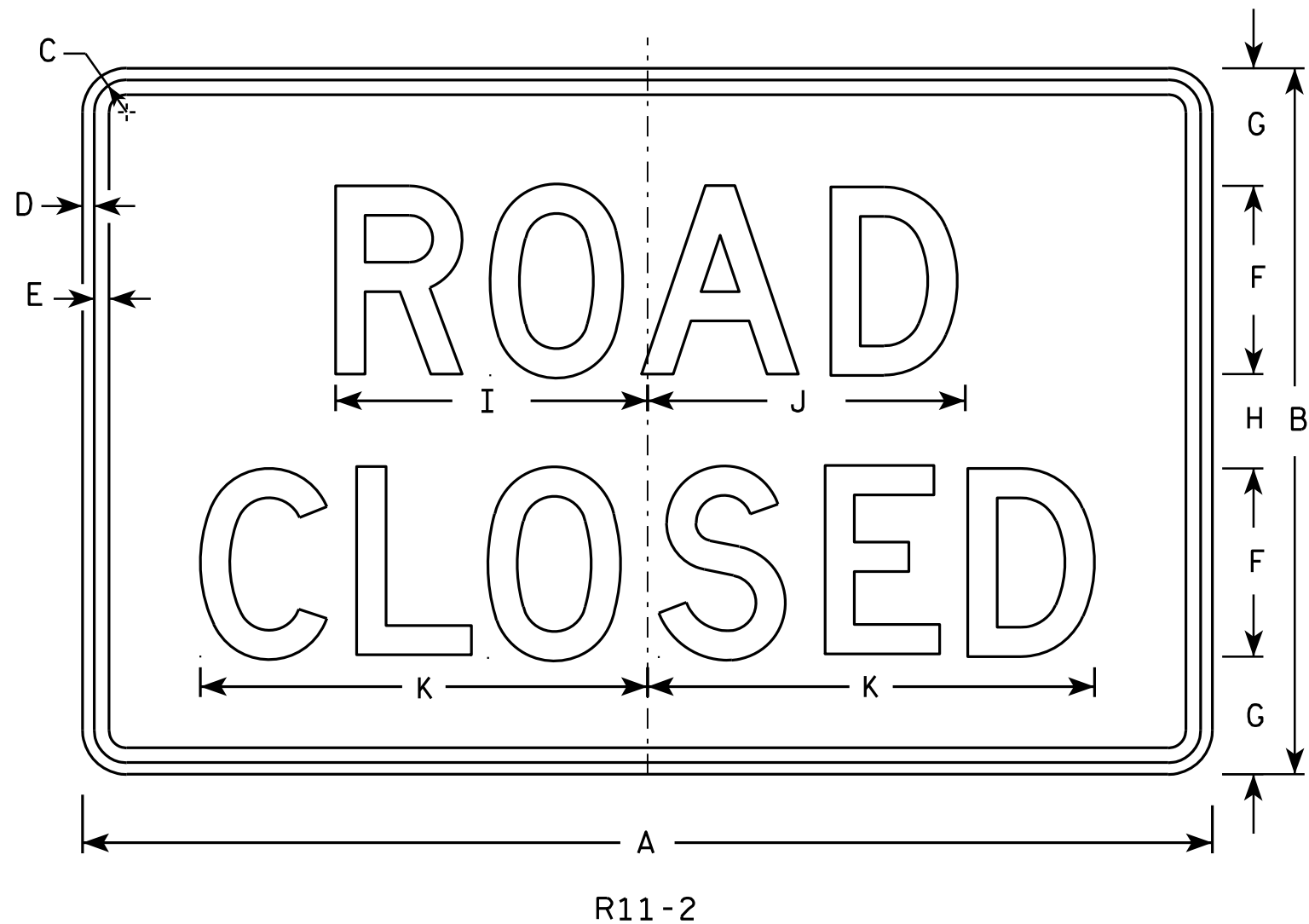
PROJECT NO:	HWY:	COUNTY:	SHEET NO: 180	E
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STANDARD SIGN R5-99

WISCONSIN DEPT OF TRANSPORTATION

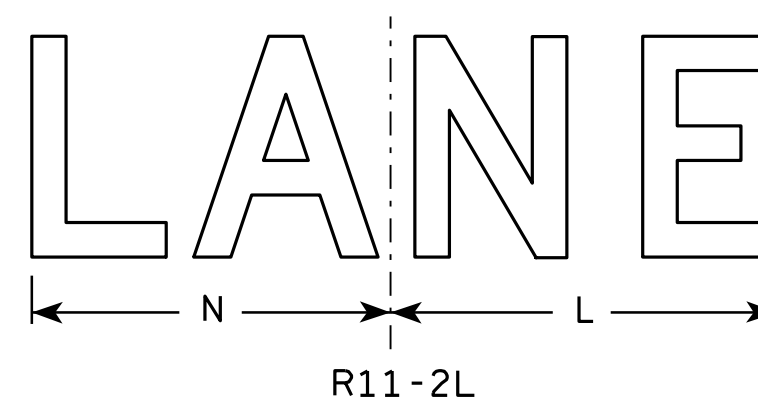
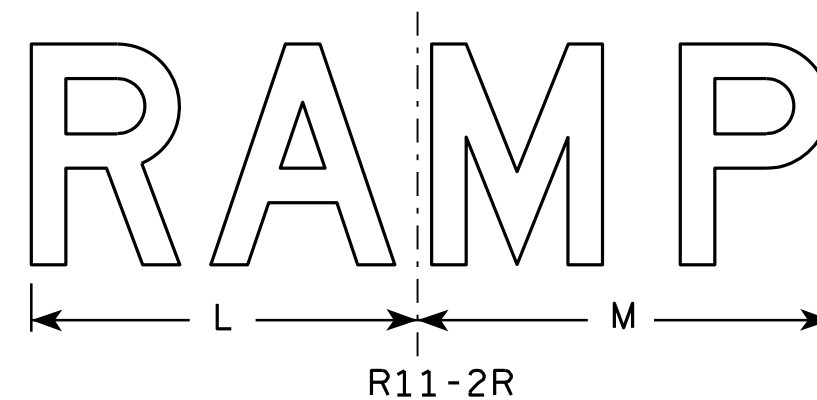
APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-99.6



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3⁄8	1⁄2	5⁄8	8	5	4	13 1⁄4	13 1⁄2	19	14	15	13													10.0
2M	48	30	1 3⁄8	1⁄2	5⁄8	8	5	4	13 1⁄4	13 1⁄2	19	14	15	13													10.0
3	48	30	1 3⁄8	1⁄2	5⁄8	8	5	4	13 1⁄4	13 1⁄2	19	14	15	13													10.0
4	48	30	1 3⁄8	1⁄2	5⁄8	8	5	4	13 1⁄4	13 1⁄2	19	14	15	13													10.0
5	48	30	1 3⁄8	1⁄2	5⁄8	8	5	4	13 1⁄4	13 1⁄2	19	14	15	13													10.0

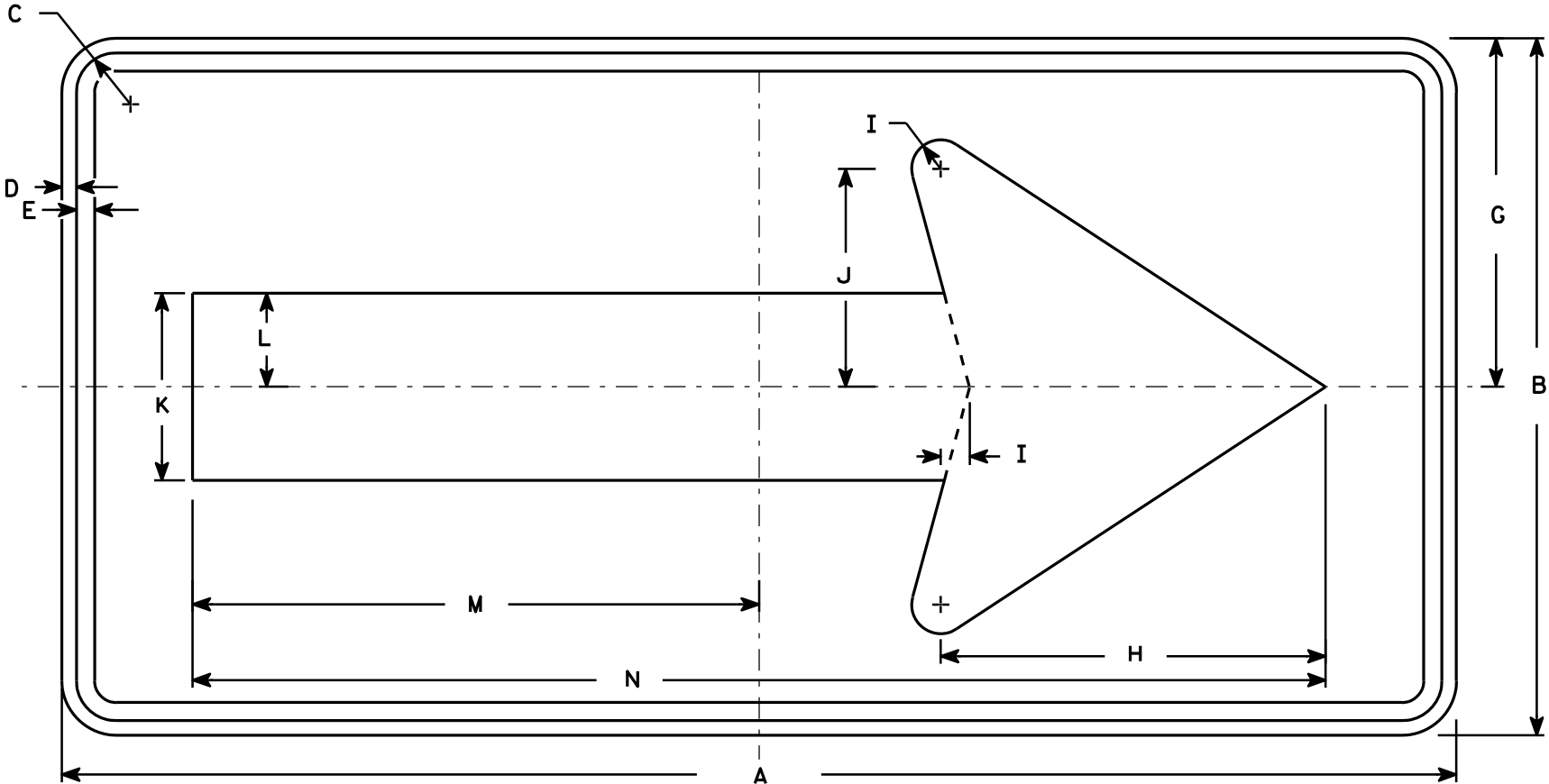
STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO: HWY: COUNTY: SHEET NO: 181 E

NOTES

1. Sign is Type II - Type F Reflective - reference
WIS DOT Standard Specification for HIGHWAY
and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base
material is plywood but borders shall be rounded
as shown. When base material is metal, the
corners and borders shall be rounded.



W1-6

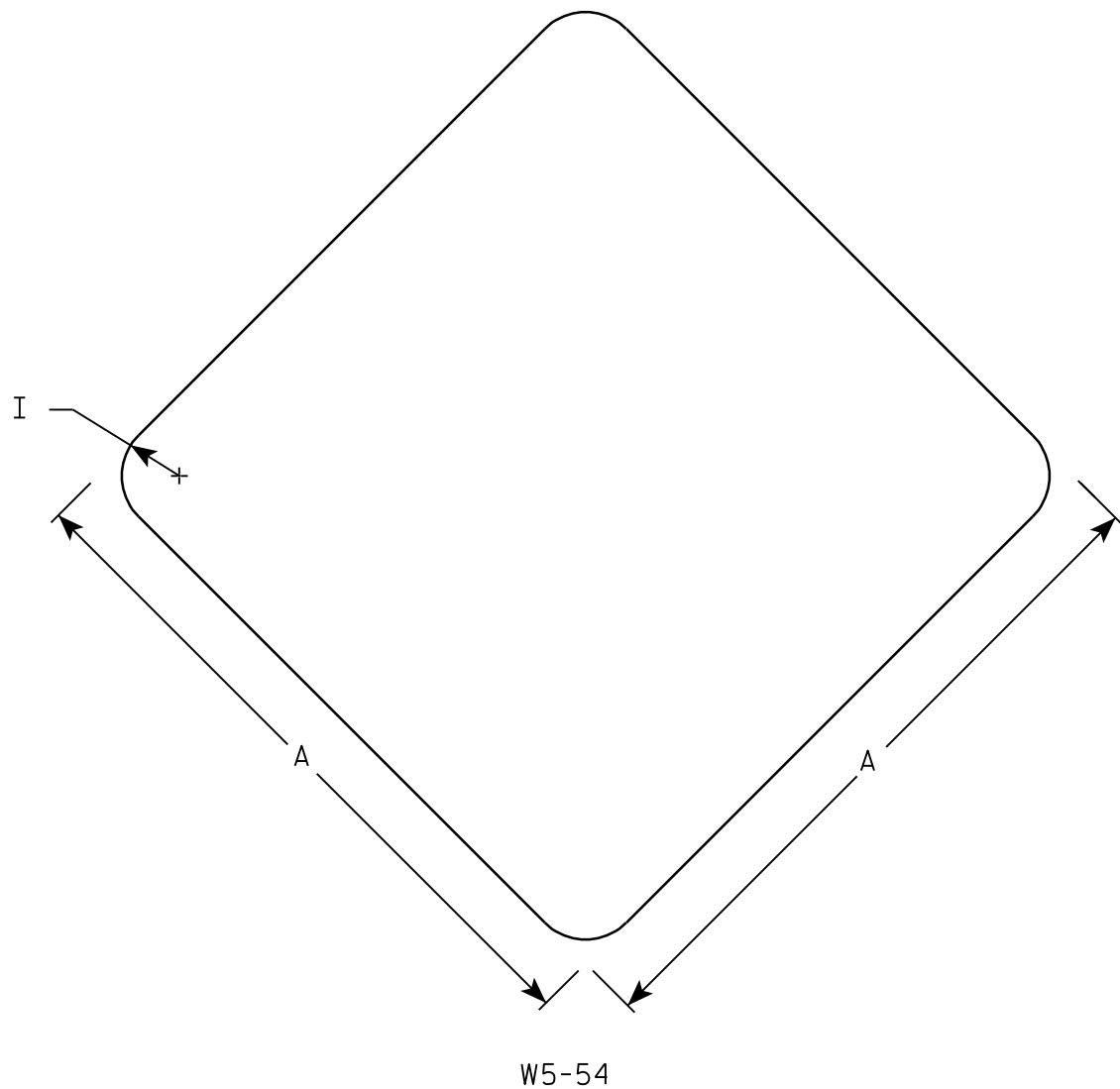
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W1-6.8

7



NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Yellow
- 3. Corners may be square or rounded when base material is plywood. When base material is metal the corners shall be rounded.

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	v	W	X	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 1/2																		2.25
2M	18								1 1/2																		2.25
3																											
4																											
5																											

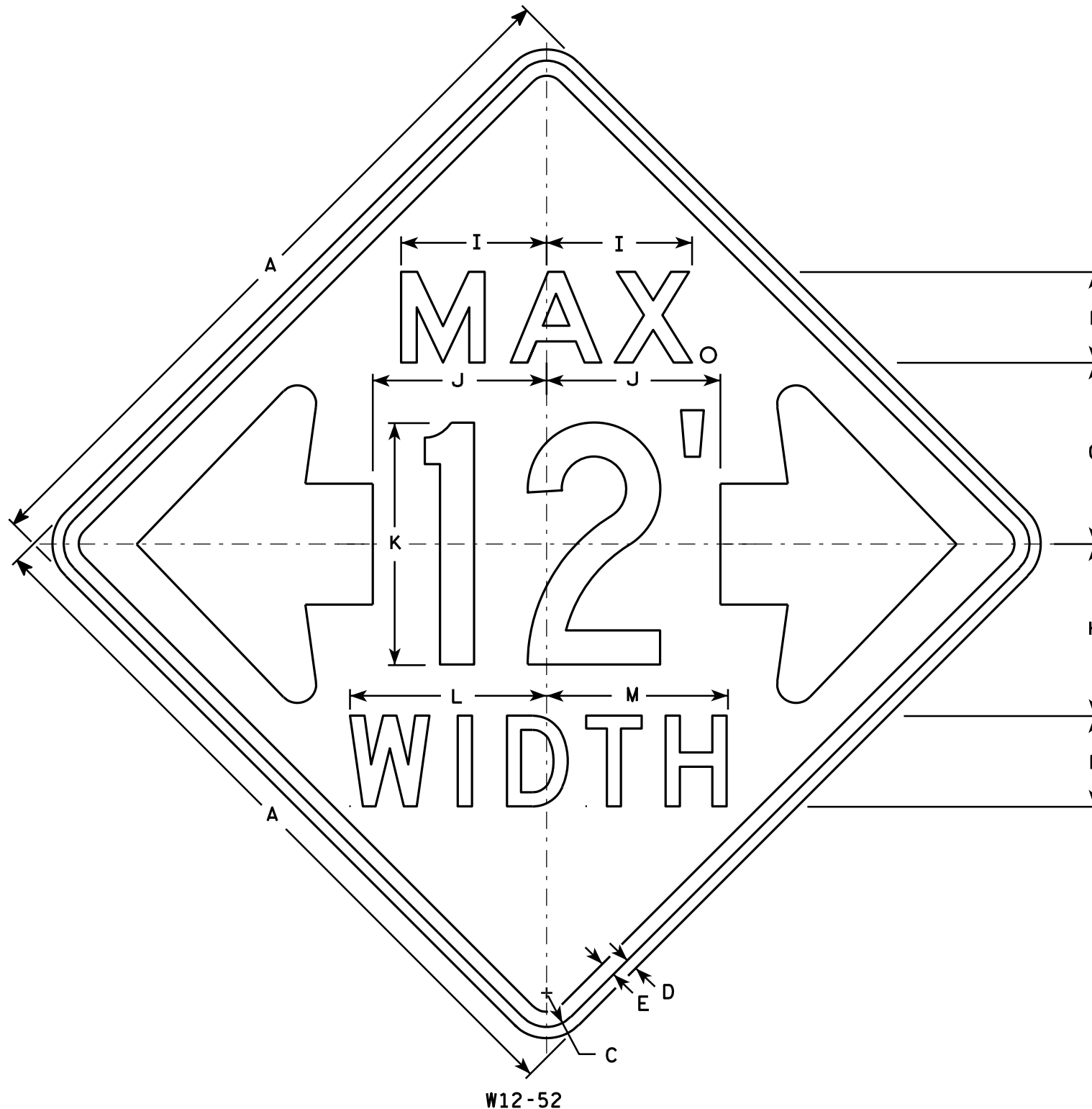
STANDARD SIGN

W5-54

WISCONSIN DEPT OF TRANSPORTATION

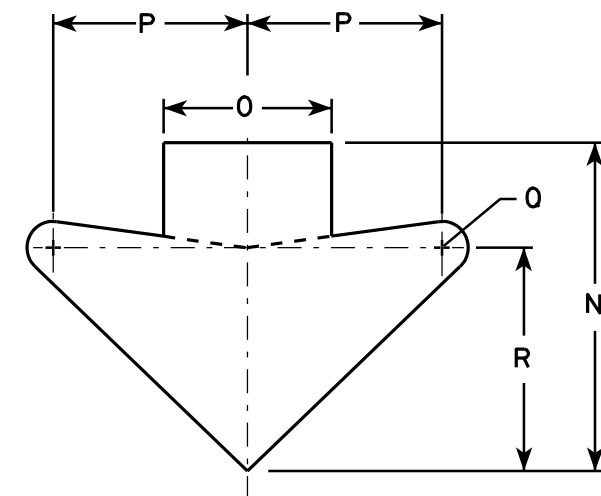
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 11/3/10 PLATE NO. W5-54.8



NOTES

1. Sign Is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

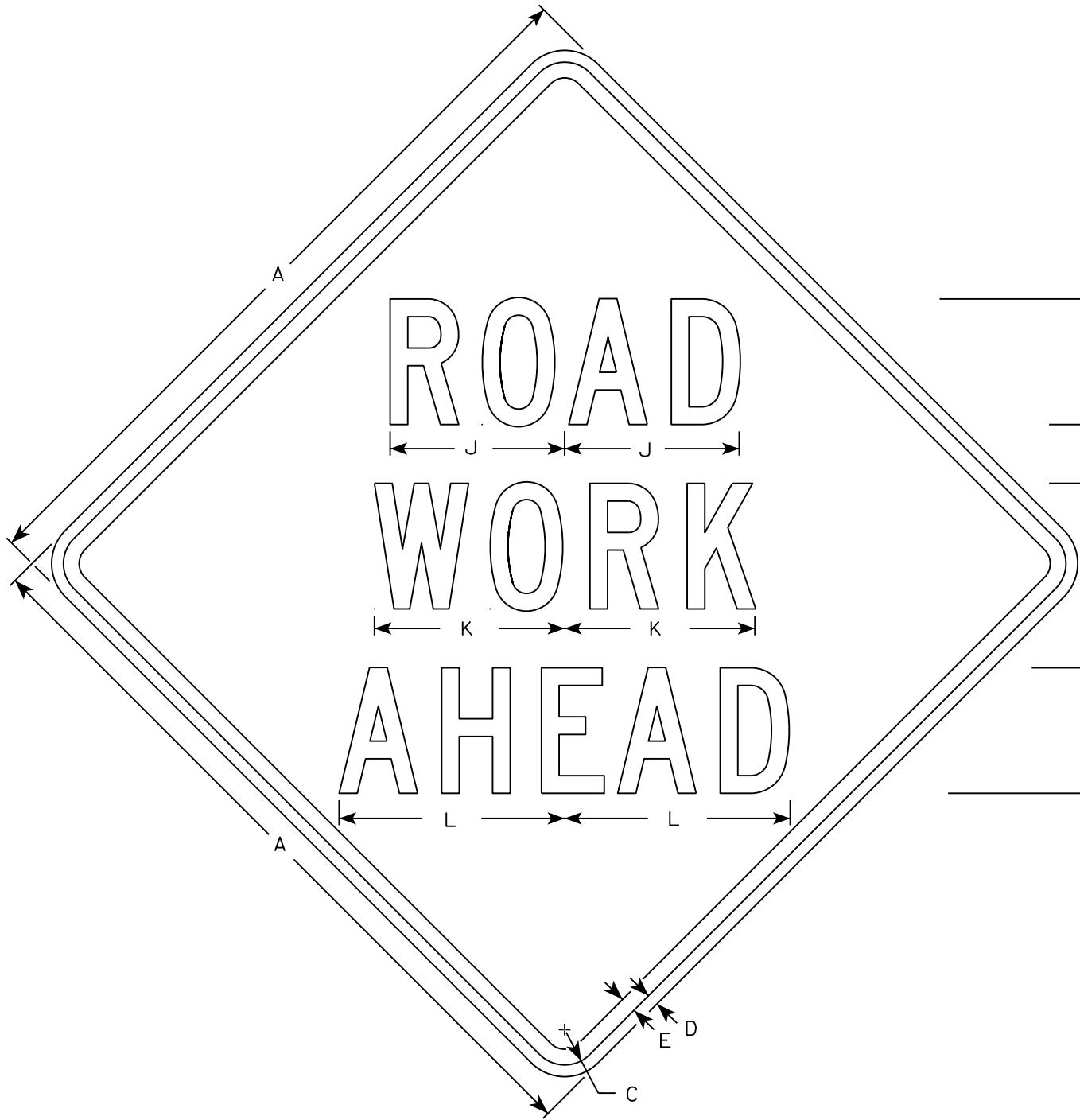
STANDARD SIGN W12-52

WISCONSIN DEPT OF TRANSPORTATION

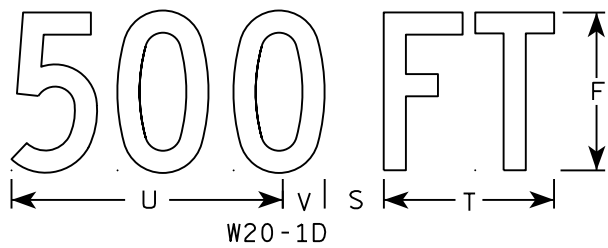
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

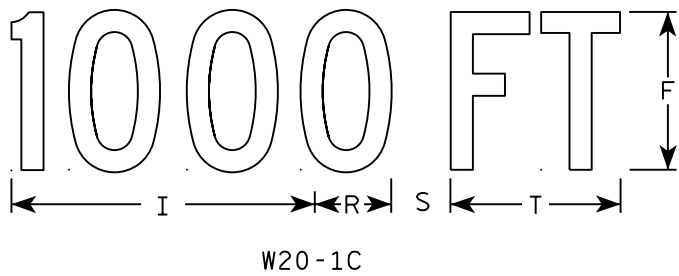
PROJECT NO: HWY: COUNTY: SHEET NO: 184 E



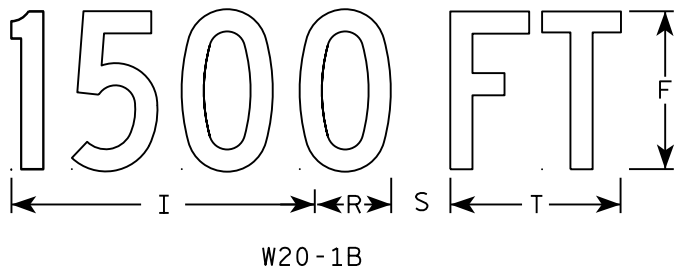
W20-1A



W20-1D



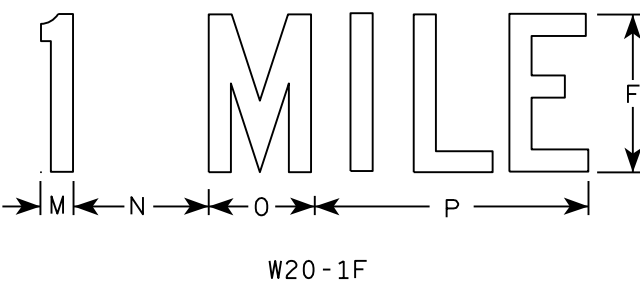
W20-1C



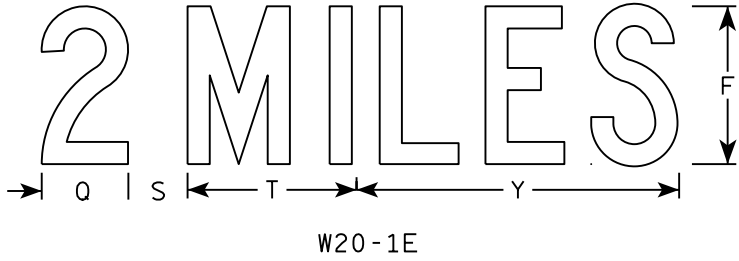
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Orange
Message - Black
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

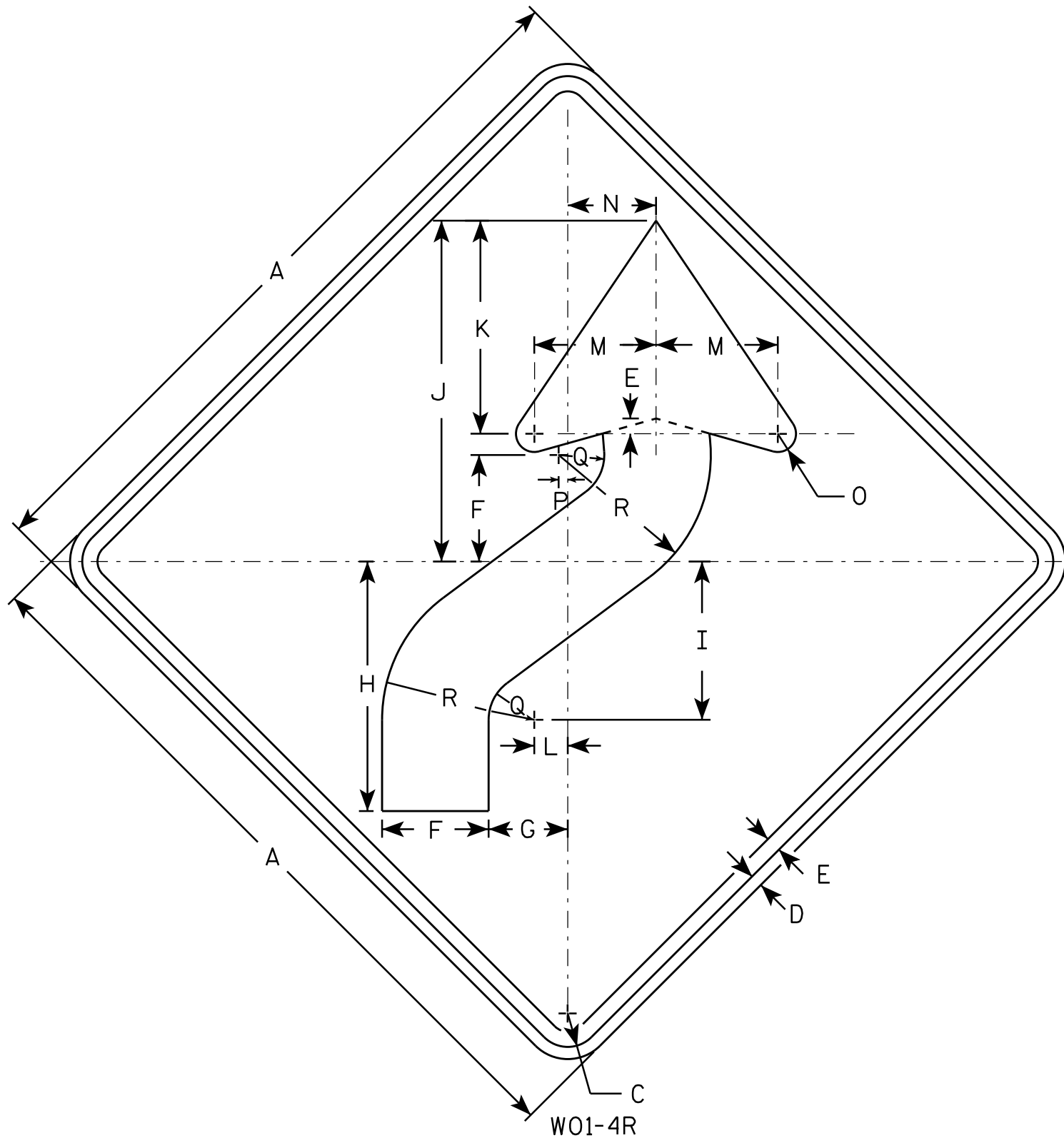
STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

185



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN W01-4

WISCONSIN DEPT OF TRANSPORTATION

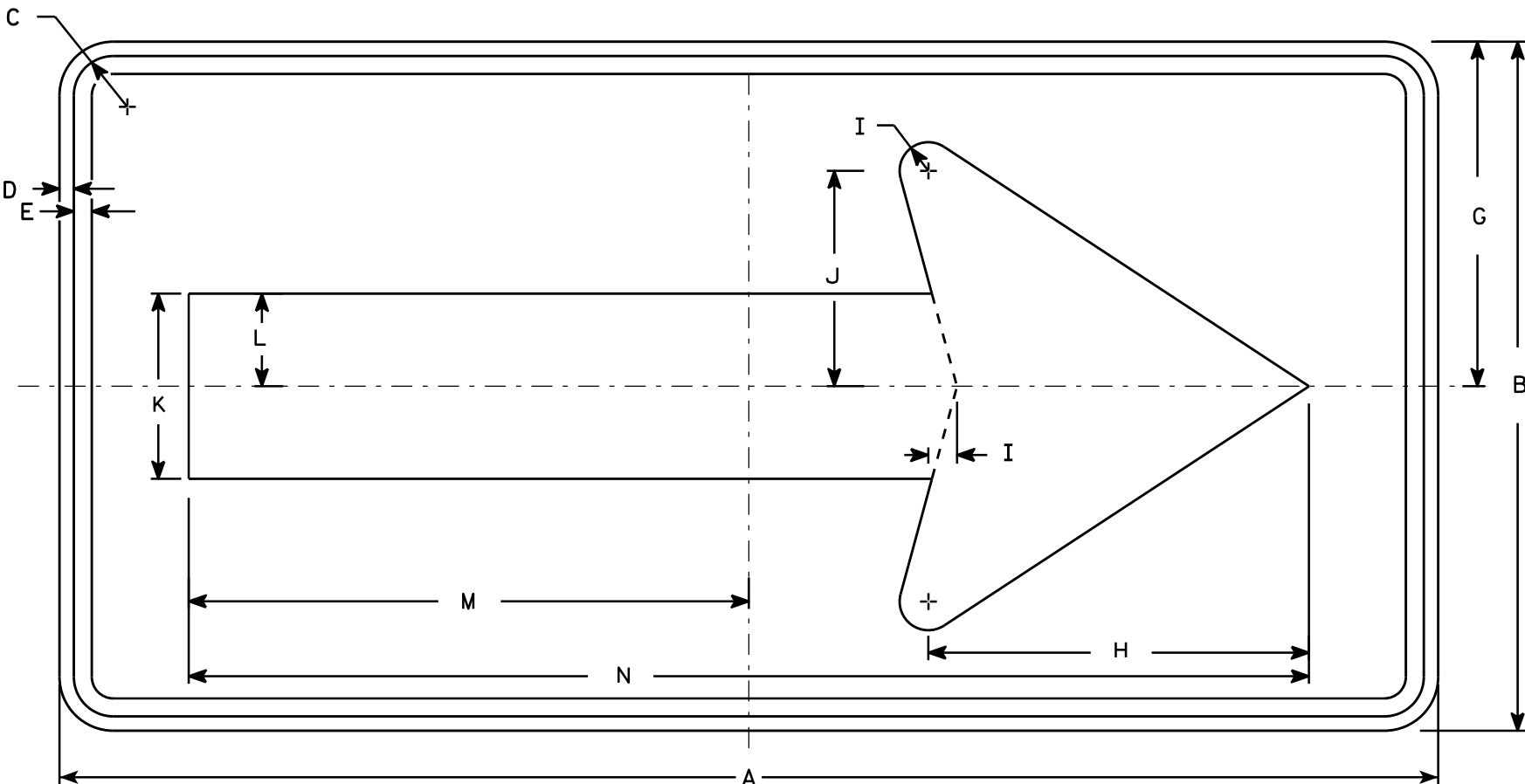
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-4.1
186

PROJECT NO: HWY: COUNTY: SHEET NO: E

NOTES

1. Sign is Type II - Type F Reflective - reference
WIS DOT Standard Specification for HIGHWAY
and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. Corners may be square or rounded when base
material is plywood but borders shall be rounded
as shown. When base material is metal, the
corners and borders shall be rounded.



W01-6

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3⁄8	1⁄2	5⁄8		12	13 1⁄4	1	7 1⁄2	6 1⁄2	3 1⁄4	19 1⁄2	39													8.0
2M	48	24	1 3⁄8	1⁄2	5⁄8		12	13 1⁄4	1	7 1⁄2	6 1⁄2	3 1⁄4	19 1⁄2	39													8.0
3	60	30	1 3⁄8	1⁄2	5⁄8		15	16 1⁄4	1 1⁄4	9 1⁄4	8	4	24 3⁄8	48 3⁄4													12.5
4	60	30	1 3⁄8	1⁄2	5⁄8		15	16 1⁄4	1 1⁄4	9 1⁄4	8	4	24 3⁄8	48 3⁄4													12.5
5	60	30	1 3⁄8	1⁄2	5⁄8		15	16 1⁄4	1 1⁄4	9 1⁄4	8	4	24 3⁄8	48 3⁄4													12.5

STANDARD SIGN

W01-6

WISCONSIN DEPT OF TRANSPORTATION

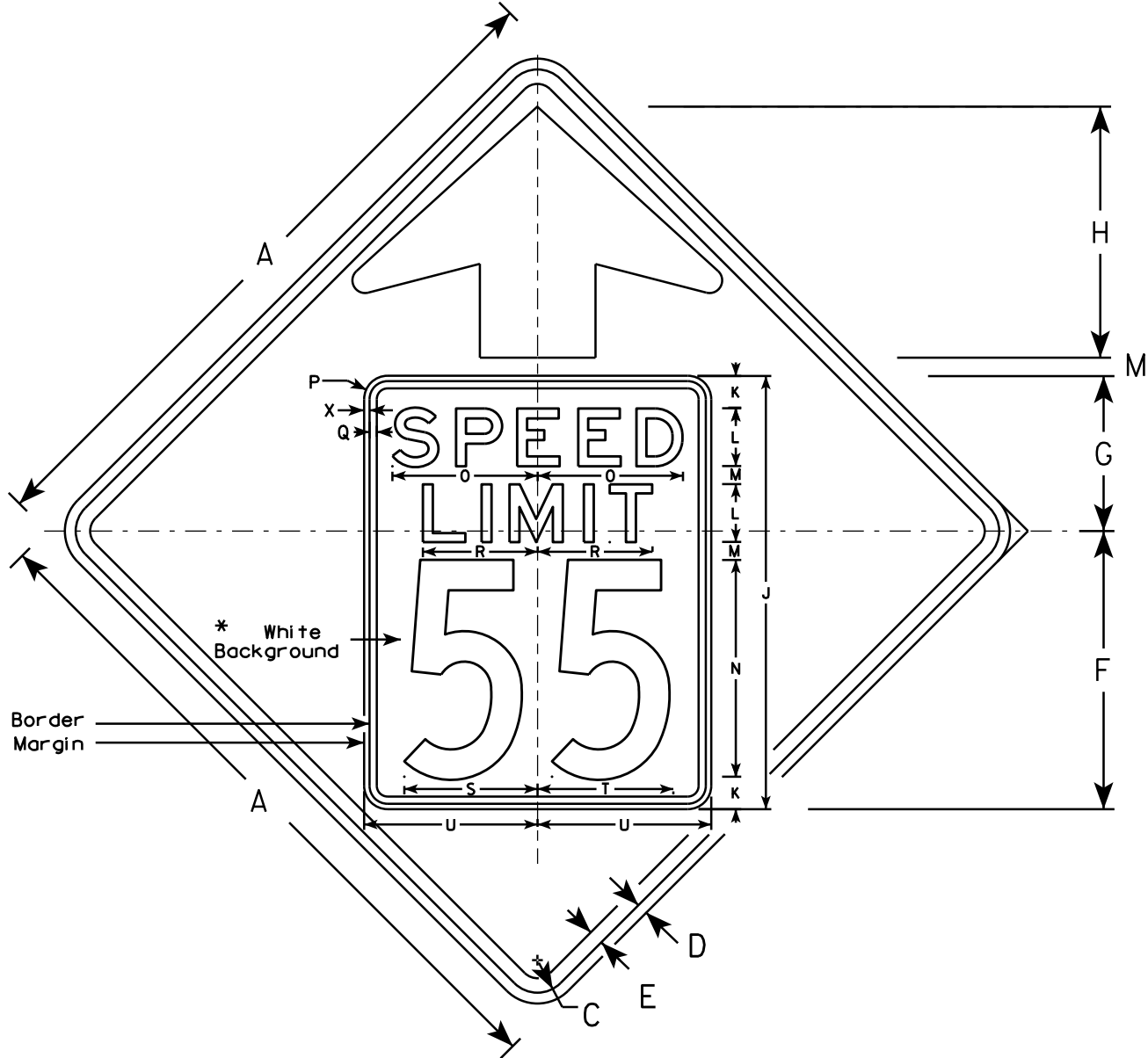
APPROVED

Matthew R. Rauch
for State Traffic Engineer

DATE 11/18/13

PLATE NO. 187

W01-6.1

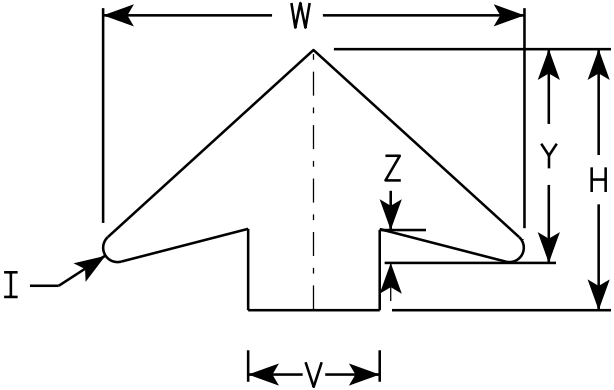


W03-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
Background - ORANGE*
Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2S	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
2M	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
3	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W03-5

WISCONSIN DEPT OF TRANSPORTATION

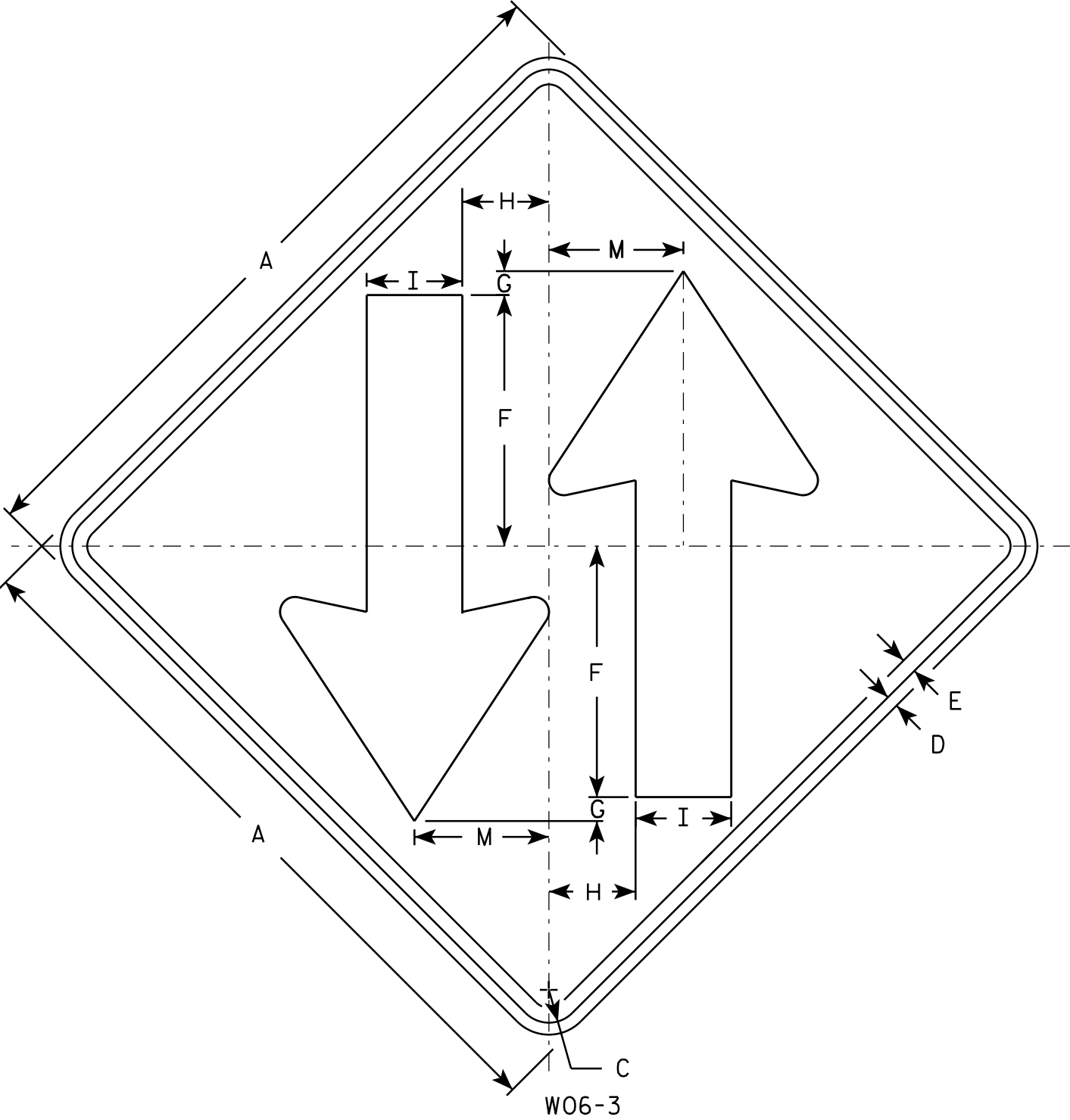
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/20/13 PLATE 188 W03-5.1

PROJECT NO:

SHEET NO:

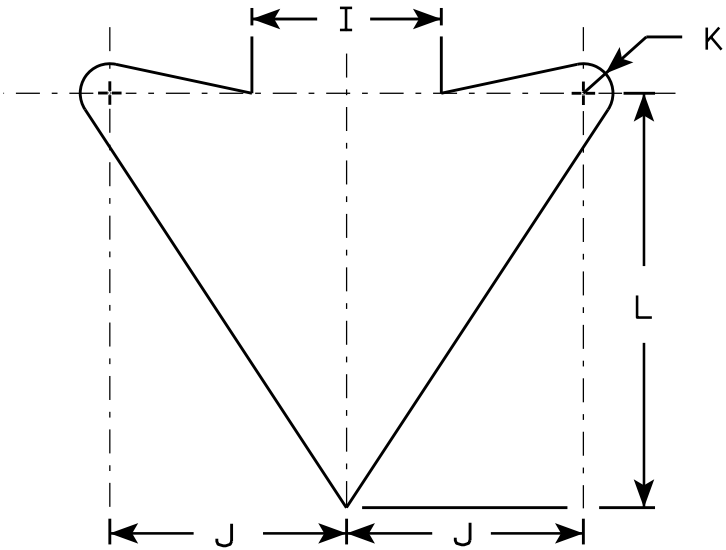
E



W06-3

NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Orange
Message - Black
- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

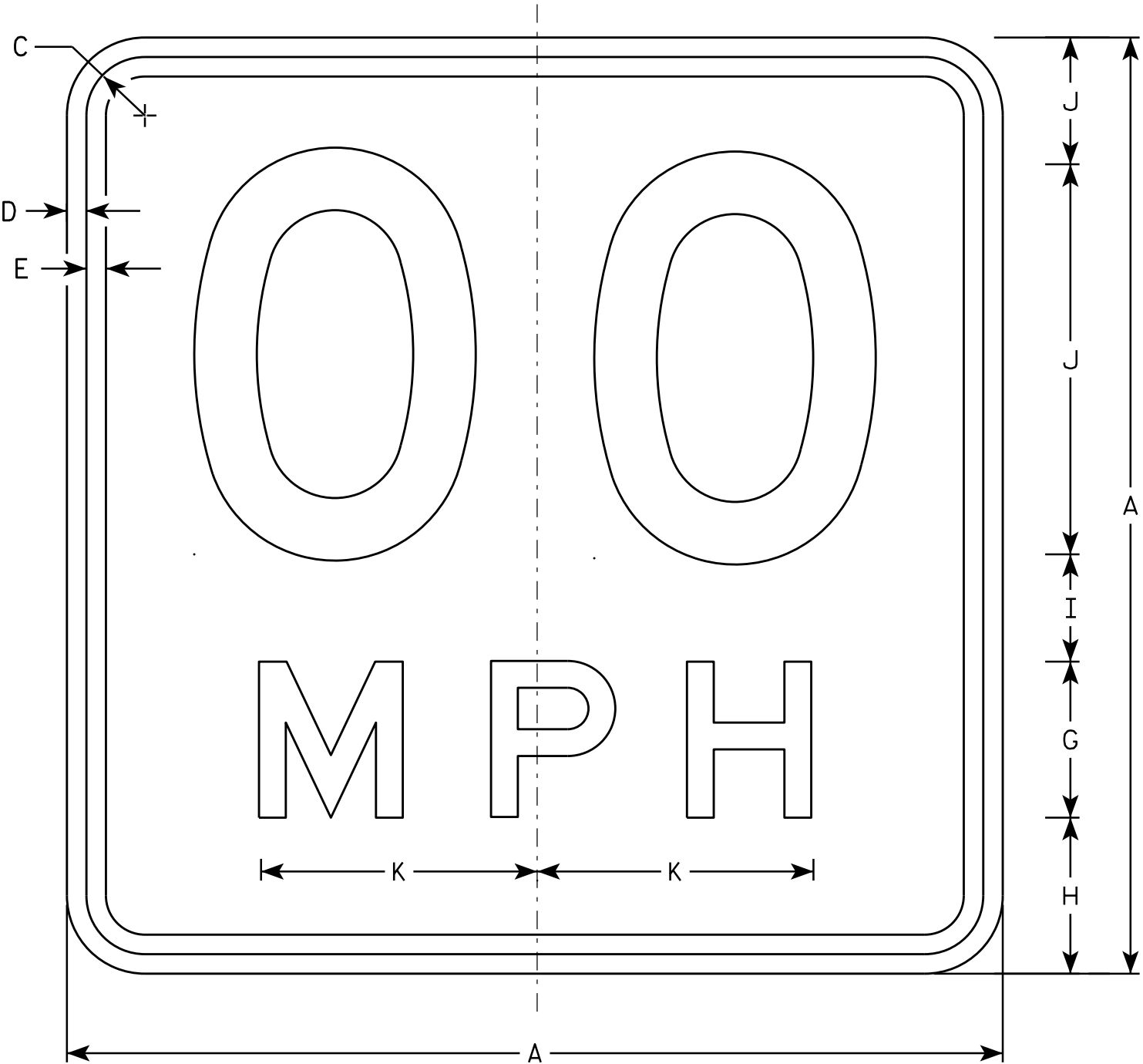
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2S	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
2M	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
3	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

STANDARD SIGN
W06 - 3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/20/13 PLATE 189 "06-3.1



W013-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
Line 2 is Series E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.00
2S	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
2M	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
3	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W013-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
For State Traffic Engineer

DATE 11/21/13 PLATE 190 W013-1.1

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

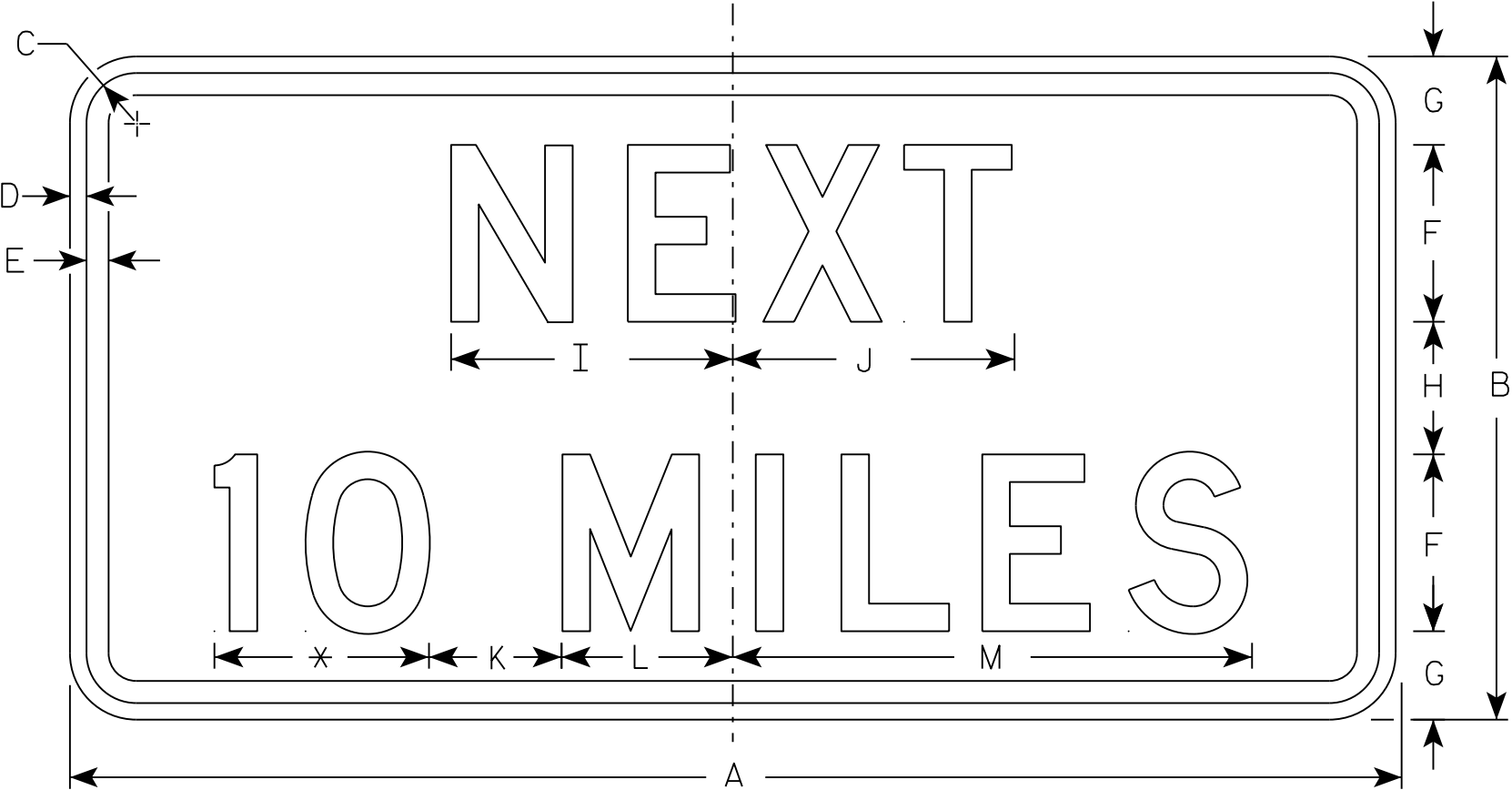
E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:

Background - Orange

Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Round distance to the nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance.



W057-51

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 5/8	2 3/4	7 7/8	8	5	4 1/8	15 3/8														4.5
2S	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
2M	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
3	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
4	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
5	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 191

E

STANDARD SIGN

W057-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch

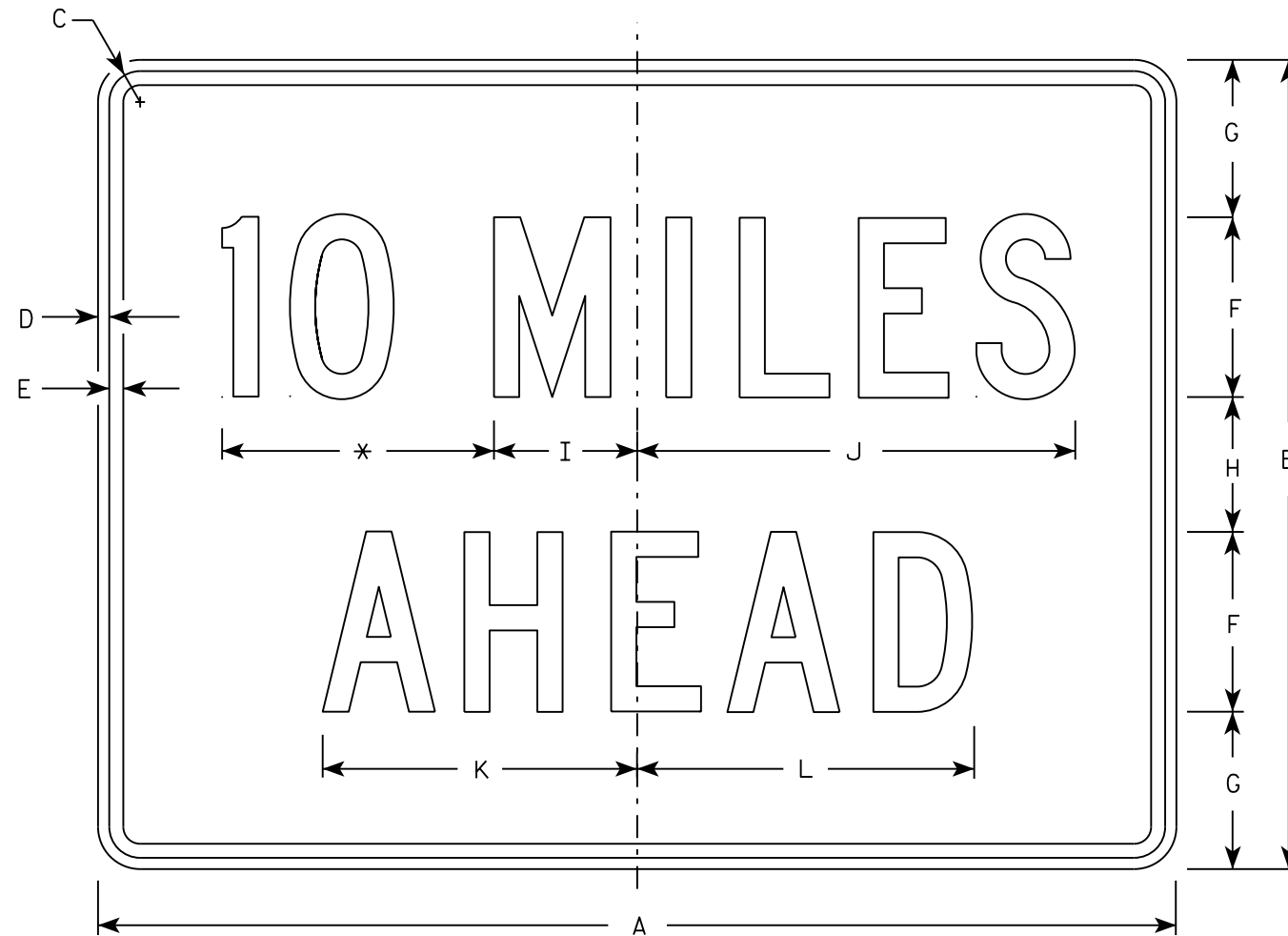
for State Traffic Engineer

DATE 3/14/17

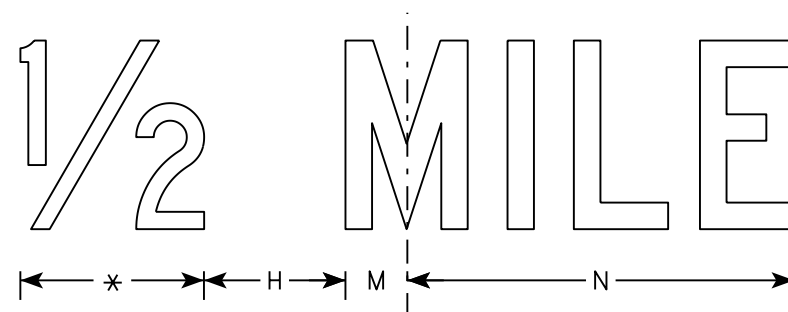
PLATE NO. W057-51.2

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.



W057-52



* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

STANDARD SIGN

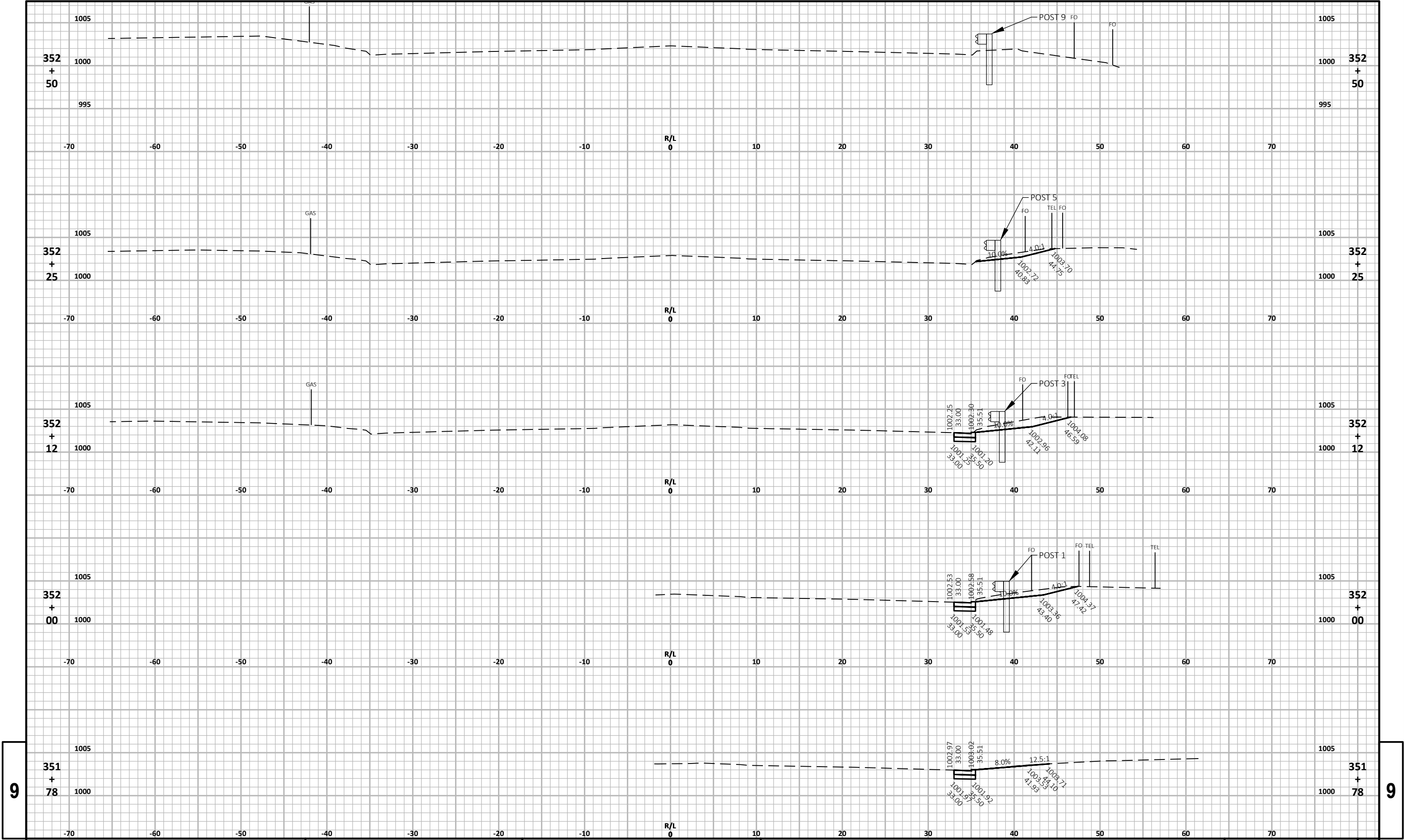
W057-52

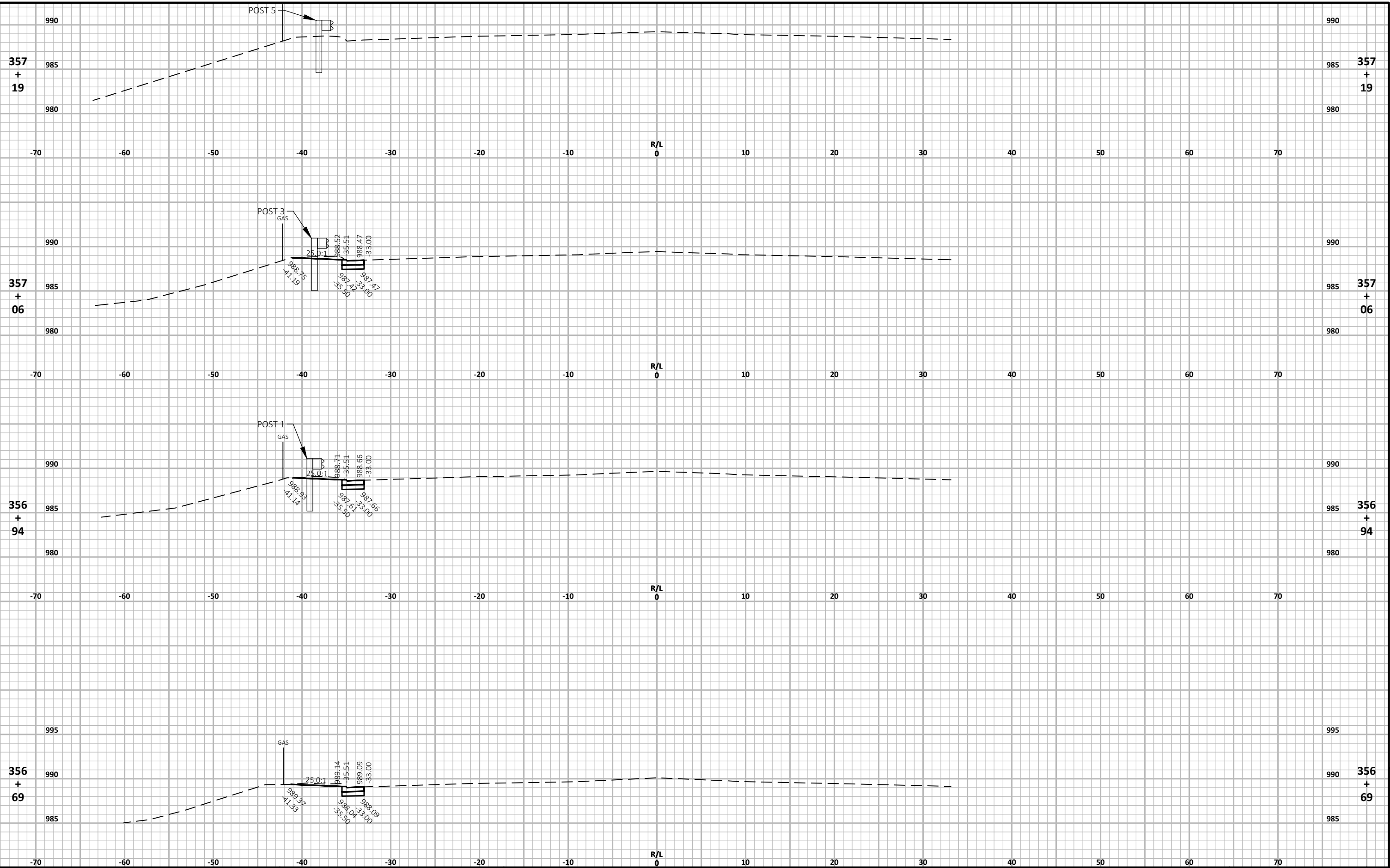
WISCONSIN DEPT OF TRANSPORTATION

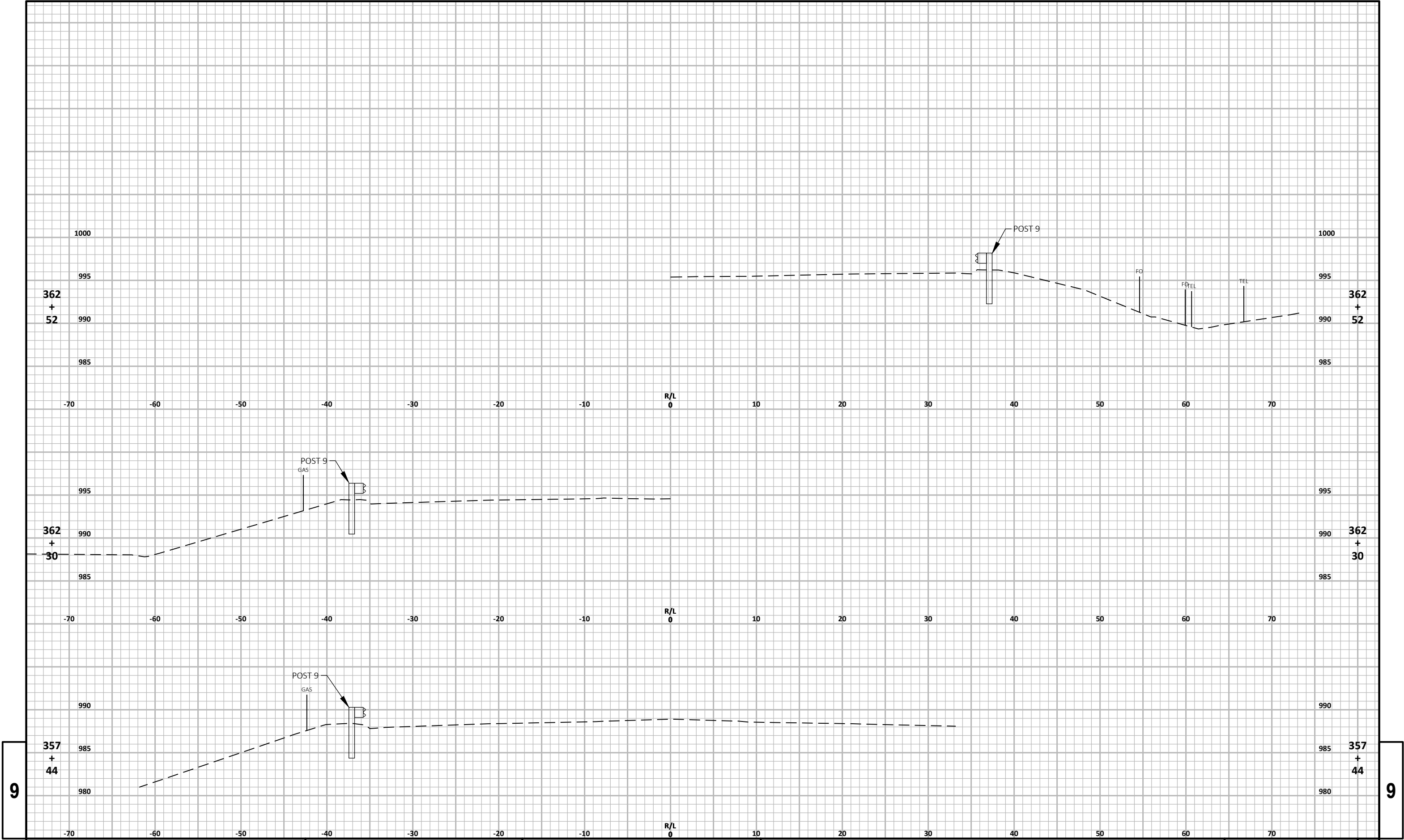
APPROVED
Matthew R. Rauch
for State Traffic Engineer

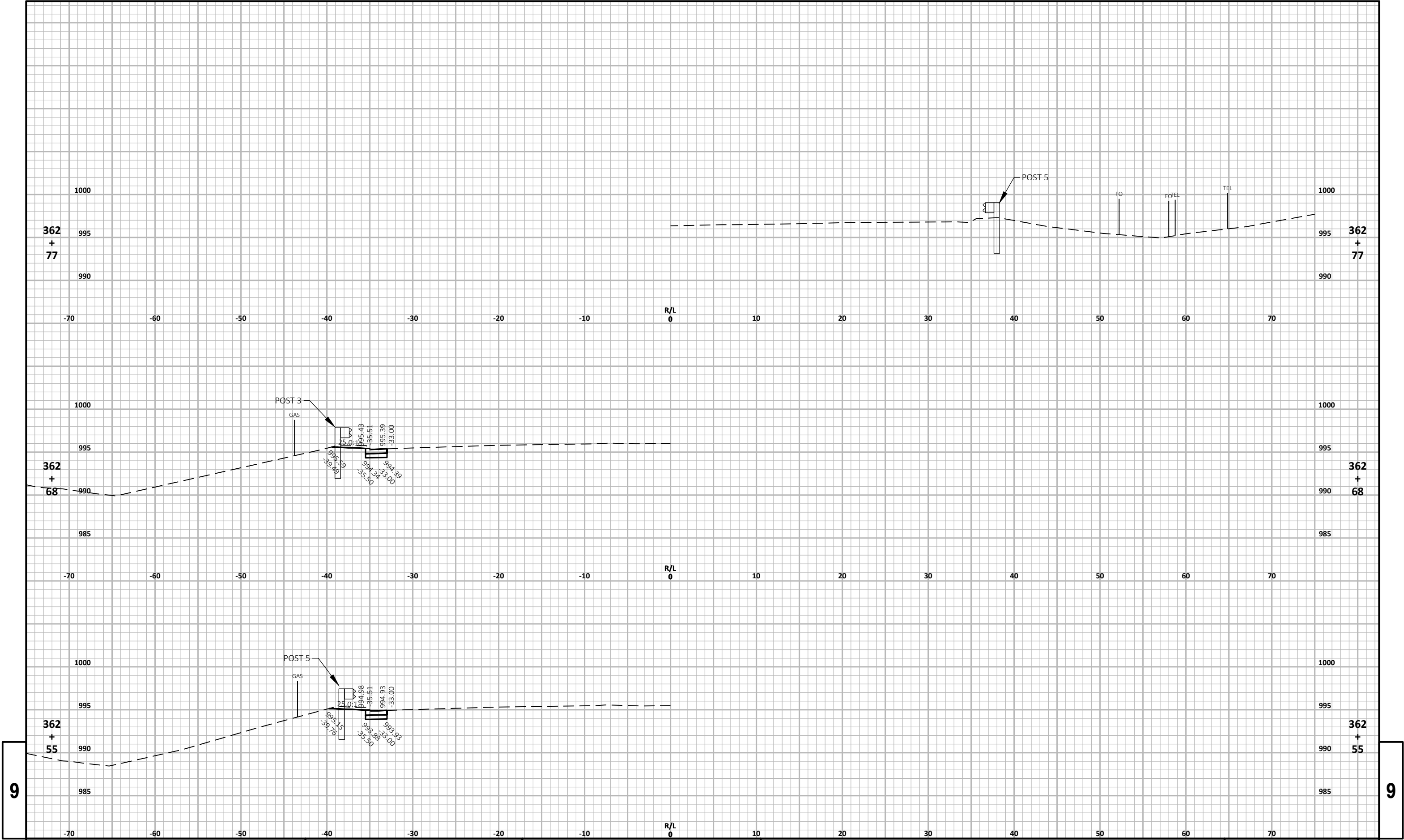
DATE 3/21/17 PLATE NO. W057-52.2

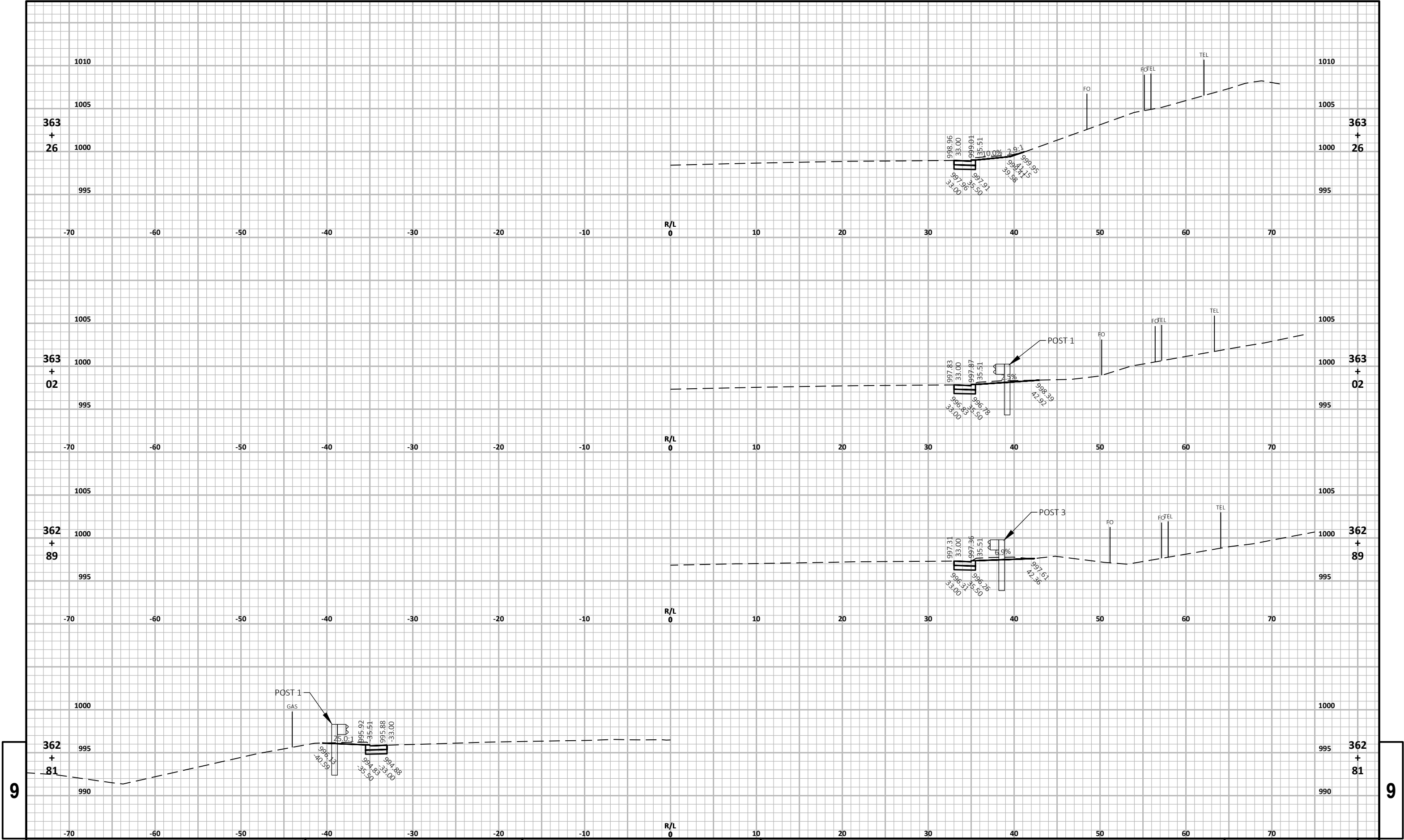
PROJECT NO: HWY: COUNTY: SHEET NO: 192 E



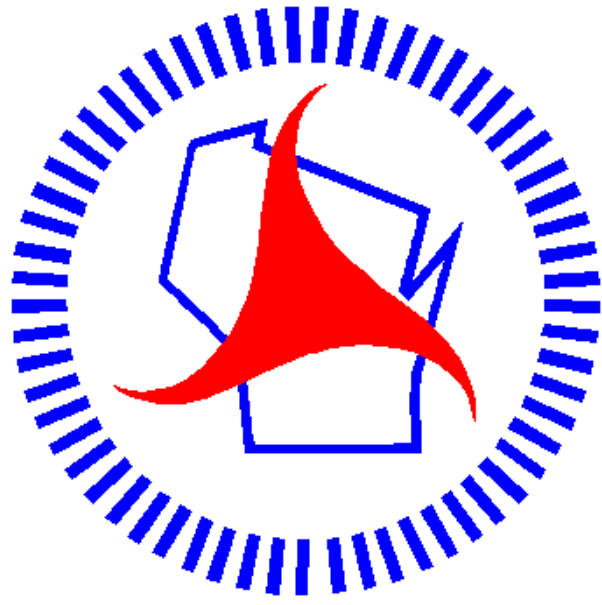








Notes



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