

PROJECT ID: 2040-03-75

COUNTY: MILWAUKEE

WITH: 2040-20-70

ORDER OF SHEETS

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

TOTAL SHEETS =



DESIGN DESIGNATION

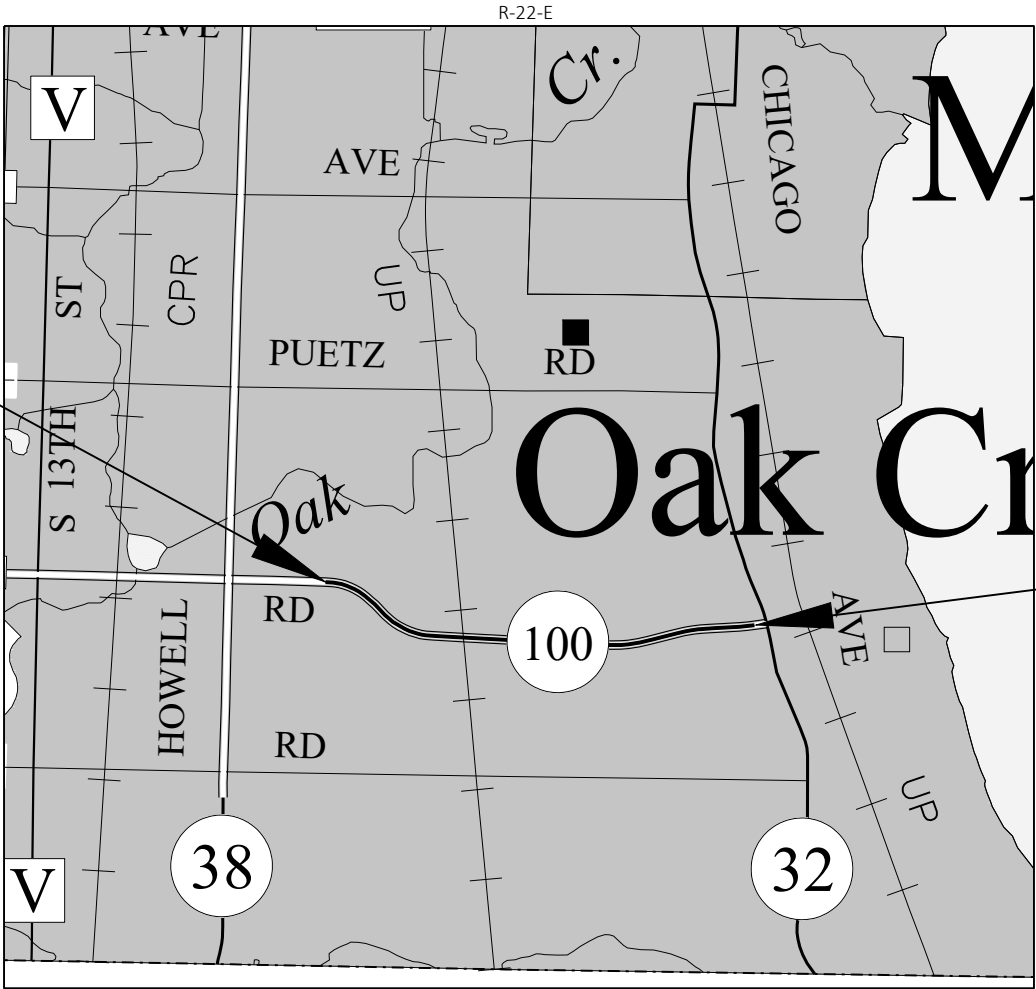
A.A.D.T.	2024	=	17,000
A.A.D.T.	2044	=	20,300
D.H.V.		=	2,010
D.D.		=	56/44
T.		=	5.0%
DESIGN SPEED		=	45 MPH (STA 131+00-176+00); 55 MPH (STA 176+00-249+30)
ESALS		=	1,700,000

CONVENTIONAL SYMBOLS

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

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

BEGIN PROJECT
STA 131+00
X=607,972.890
Y=238,776.056



END PROJECT
STA 249+30
X=619,295.431
Y=237,578.194

LAYOUT
SCALE 0 1 MI
TOTAL NET LENGTH OF CENTERLINE = 2.241 miles

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), MILWAUKEE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

RYAN ROAD

SHEPARD AVE TO STH 32

STH 100
MILWAUKEE

STATE PROJECT NUMBER
2040-03-75

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2040-03-75		
2040-20-70		

DRAFT PS&E PLAN
12/1/2021

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	WISDOT
Designer	CLAYTON SMITH
Project Manager	ROBERT BELLIN
Regional Examiner	STEVE CHOJNACKI
Regional Supervisor	BENEDICT ERUCHALU
APPROVED FOR THE DEPARTMENT	
DATE: 2/1/2022	Robert A. Bellin (Signature)
	E

GENERAL NOTES

- 1) THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
- 2) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER OR THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE OF CURB AND GUTTER OR THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER.
- 3) FOR INLET AND CATCH BASIN STRUCTURES LOCATED IN THE CURB OR IN FRONT OF BARRIER, STATION, OFFSET, AND ELEVATIONS ARE GIVEN TO THE FLOW LINE. MH STATION, OFFSET, AND ELEVATIONS ARE GIVEN TO THE CENTER OF STRUCTURE.
- 4) CONTACT THE PROJECT ENGINEER, THE COUNTY SURVEYOR, AND SEWRPC AT LEAST TWO WEEKS BEFORE WORKING NEAR ANY SECTION CORNER MONUMENT.
- 5) VERIFY EXISTING PAVEMENT ELEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF A DISCREPANCY IS FOUND
- 6) CONSTRUCT PAVEMENT CONSISTENT WITH THE PLAN TYPICAL SECTIONS. LOCATE LONGITUDINAL JOINTS IN ASPHALT PAVEMENT OUTSIDE OF DRIVING, TURNING, BIKE, OR PARKING LANE UNLESS DIRECTED OTHERWISE BY THE ENG PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A
- 7) SAWCUT EXISTING ASPHALT AND CONCRETE PAVEMENT AT THE MATCHLINE AS INDICATED ON THE PLAN OR AS DIRECTED BY THE ENGINEER.
- 8) RESHAPE, RESTORE AND FINISH ALL PREVIOUSLY GRASSED AREAS DISTURBED BY OPERATIONS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT NO
- 9) DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED, FERTILIZED, SEEDED, AND MULCHED OR SODDED AS DIRECTED BY THE ENGINEER.
- 10) PRIOR TO THE PLACEMENT OF STEEL PLATE BEAM GUARD OR MGS GUARDRAIL, THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED UNLESS SHOWN OTHERWISE.
- 11) ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.
- 12) CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.

GENERAL DRAINAGE NOTES

- 13) INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES AND PIPES SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.
- 14) VERIFY THE EXISTING STORM SEWER SYSTEM CONNECTION LOCATIONS AND ELEVATIONS BEFORE ORDERING DRAINAGE STRUCTURES AND PIPES. NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE INFORMATION SHOWN ON THE PLANS BEFORE INSTALLING THE PROPOSED STORM SEWER.

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES

UTILITY AND OTHER CONTACTS

PROJECT OVERVIEW

TYPICAL SECTIONS

CONSTRUCTION DETAILS

PLAN DETAILS AND EROSION CONTROL

TRAFFIC SIGNALS

PERMANENT SIGNING

PAVEMENT MARKING

TRAFFIC CONTROL

ALIGNMENT

HMA PAVING LAYER DEPTHS

PAVEMENT LOCATION	TOTAL PAVEMENT THICKNESS	LAYERS	TYPE
STH 100			
STA 131+00 - 249+30	2"	UPPER	4 MT 58-28 S

AT&T LEGACY - COMMUNICATION LINE

Kenneth Colwell
222 W Jackson
Woodstock, IL 60098
(312) 734-2223
kc1298@att.com

AT&T WISCONSIN - COMMUNICATION LINE

Matthew Dinnauer
2005 Pewaukee Rd
Waukesha, WI 53188-2443
(262) 896-7690
md9542@att.com

CENTURYLINK COMMUNICATIONS, LLC - COMMUNICATION LINE

General Mailbox Centurylink National OSP Reloc
CenturylinkNationalOSPRelocations@centurylink.com

LEVEL 3 COMMUNICATIONS LLC - COMMUNICATION LINE

Network Relocations
1025 Eldorado Blvd
Broomfield, CO 80021
NationalRelo@centurylink.com

ROGERS TELECOM - COMMUNICATION LINE

Vickie Moran
4804 N 40th St
Sheboygan, WI 53083
(920) 395-7125
vmoran@gabes.com

SPRINT COMMUNICATIONS CO LP - COMMUNICATION LINE

Dan Hilliard
849 Earl St
Saint Paul, MN 55106
(612) 217-3526
dan.j.hilliard@sprint.com

WINDSTREAM KDL, LLC - COMMUNICATION LINE

Mary Fisher
13935 Bishops Dr
Brookfield, WI 53005
(262) 792-7938
Mary.B.Fisher@windstream.com

WINDSTREAM NTI, LLC - COMMUNICATION LINE

Mary Fisher
13935 Bishops Dr
Brookfield, WI 53005
(262) 792-7938
Mary.B.Fisher@windstream.com

UTILITY CONTACTS

AT&T LOCAL NETWORK - COMMUNICATION LINE

Dale DeFever
39869 Linn St
Canton, MI 48147
(586) 242-2671
dd2579@att.com

AT&T MOBILITY - COMMUNICATION LINE

Marc Brown
301 E Milwaukee St
Janesville, WI 53545
(608) 755-5535
mb2682@att.com

ATC MANAGEMENT, INC. - ELECTRICITY-TRANSMISSION

Trans 220 Mailbox
801 O'keefe Rd
De Pere, WI 54115-6113
(920) 338-6582
dl-ATCDOTNotifications@atcllc.com

CHARTER COMMUNICATIONS - COMMUNICATION LINE

Beau Abuya
1320 N Dr Martin Luther King Jr Dr
Milwaukee, WI 53212-4002
(414) 908-1343
wis.engineering@charter.com

TDS METROCOM LLC - COMMUNICATION LINE

Michael Sweet
525 Junction Rd
Madison, WI 53717
(608) 664-4539
Michael.Sweet@tdstelecom.com

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT - SEWER

Micki Klappa-Sullivan
260 W Seeboth St
Milwaukee, WI 53204
(414) 225-2178
MKlappaSullivan@mmsd.com

PAETEC COMMUNICATIONS, LLC - COMMUNICATION LINE

Mary Fisher
13935 Bishops Dr
Brookfield, WI 53005
(262) 792-7938
Mary.B.Fisher@windstream.com

VERIZON BUSINESS - COMMUNICATION LINE

OSP National Support/Investigations
2400 North Glenville
Richardson, TX 75082
Investigations@verizon.com

UTILITY CONTACTS

WE ENERGIES - ELECTRIC

WE Energies Utility Coordinator
500 S 116th Street
West Allis, WI 53214
(414) 221-2738
We-Utility-Relocations@we-energies.com

WE ENERGIES - GAS/PETROLEUM

WE Energies Utility Coordinator
500 S 116th Street
West Allis, WI 53214
(414) 221-2738
We-Utility-Relocations@we-energies.com

DIGGERSHOTLINE

Dial 811 or (800)242-8511

www.DiggersHotline.com

OTHER CONTACTS

CITY OF OAK CREEK

Matthew Sullivan
8040 S. 6th Street
Oak Creek, WI 53154
(414) 766-7029
msullivan@oakcreekwi.org

OAK CREEK WATER AND SEWER UTILITY

Brian Johnston
170 West Drexel Ave
Oak Creek, WI 53154
(414) 570-8200 Ext. 24
bjohnston@water.oak-creek.wi.us

MILWAUKEE COUNTY DEPARTMENT OF TRANSPORTATION (MCDOT)

Transportation Services Division
Andrea Weddle-Henning
10320 W. Watertown Plank Rd.
Wauwatosa, WI 53226
(414) 257-5934
andrea.weddle-henning@milwaukeecountywi.gov

MILWAUKEE COUNTY DEPARTMENT OF TRANSPORTATION (MCDOT)

Highway Maintenance Division
Eduardo Santiago
10320 W. Watertown Plank Rd.
Wauwatosa, WI 53226
(414) 257-6569
eduardo.santiago@milwaukeecountywi.gov

MILWAUKEE COUNTY PARKS

Sarah Toomsen
9480 Watertown Plank Rd
Wauwatosa, WI 53226
(414) 257-7389
sarah.toomsen@milwaukeecountywi.gov

MILWAUKEE COUNTY PARKS

Blake Prusak
9480 Watertown Plank Rd
Wauwatosa, WI 53226
(414) 258-2322
blake.prusak@milwaukeecountywi.gov

UNION PACIFIC RAILROAD

Chris T. Keckeisen
1400 Douglas, Ms 0910
Omaha, Ne 68179
(402) 544-5131
Ctkecke@Up.Com

WISDOT SIGNALS

Parwinder Virk
141 NW Barstow Street
Waukesha, WI 53188
(414) 852-0829
parwinder.virk@dot.wi.gov

WISDNR

Kristina Betzold
2300 N. Dr. Martin Luther King Jr. Dr.
Milwaukee, Wi 53212
(414) 507-4946
Kristina.Betzold@wisconsin.gov

WISDOT STREET LIGHTING

Eric Perea
141 NW Barstow Street
Waukesha, WI 53087-0798
(262) 574-5422
Eric.Perea@dot.wi.gov

WISDOT ATR PULL BOXES - ELECTRICAL

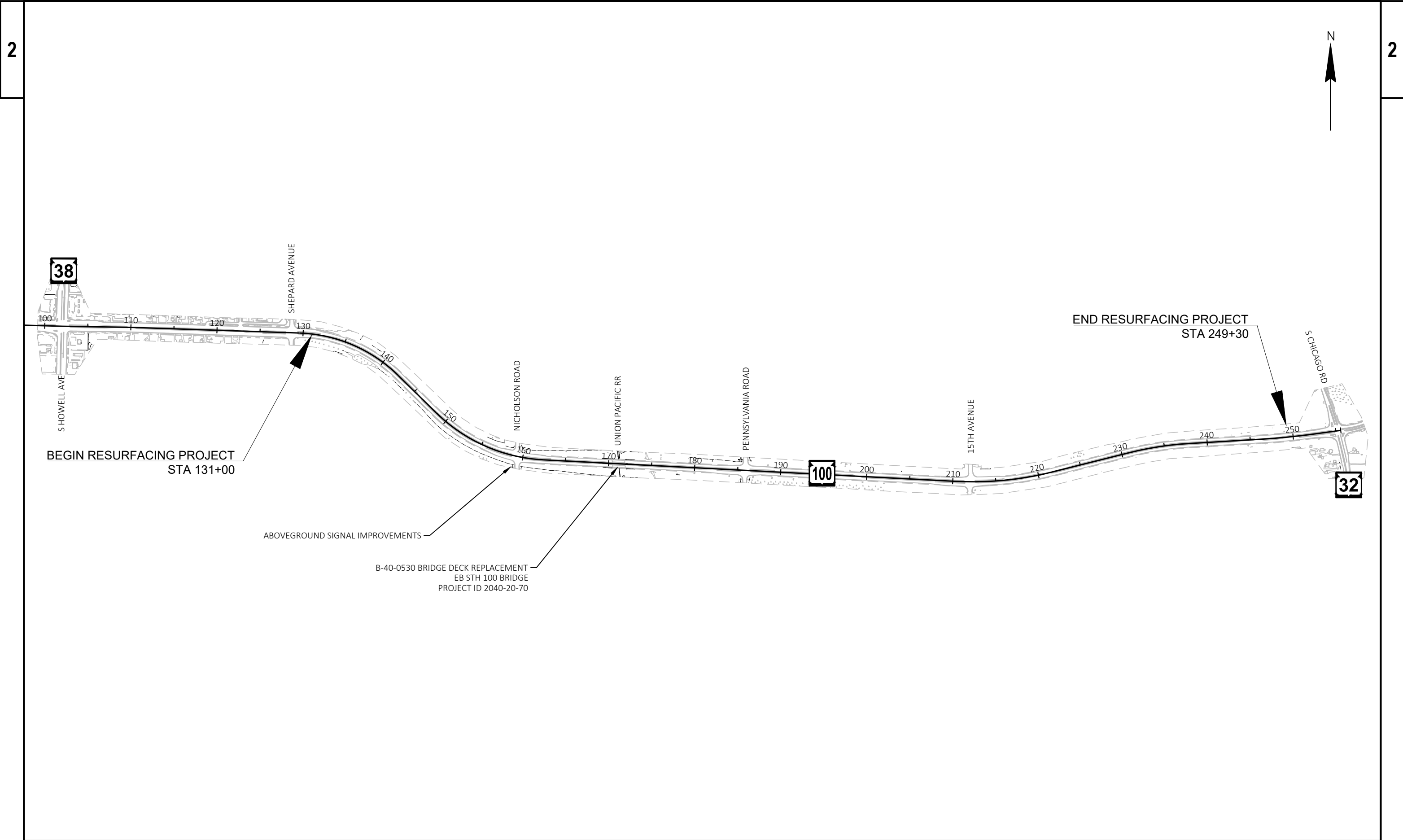
Chad Bigler
Travel Survey Shop, 3633 Pierstoff St
PO Box 2583
Madison, WI 53704-2583
(608) 535-7413
chad.bigler@dot.wi.gov

SEWRPC

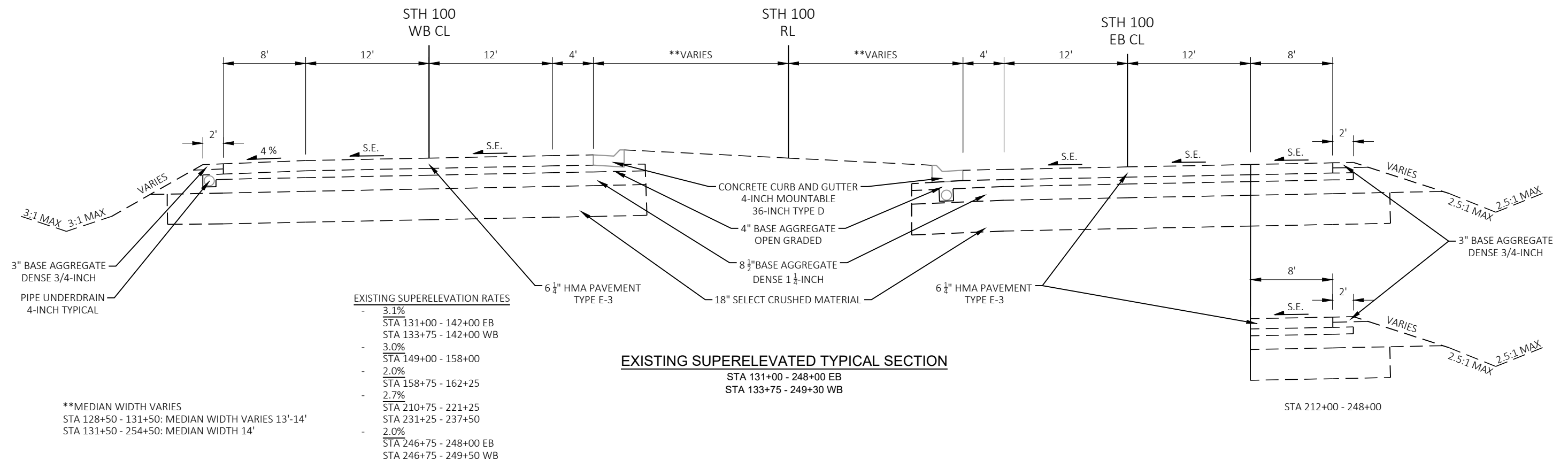
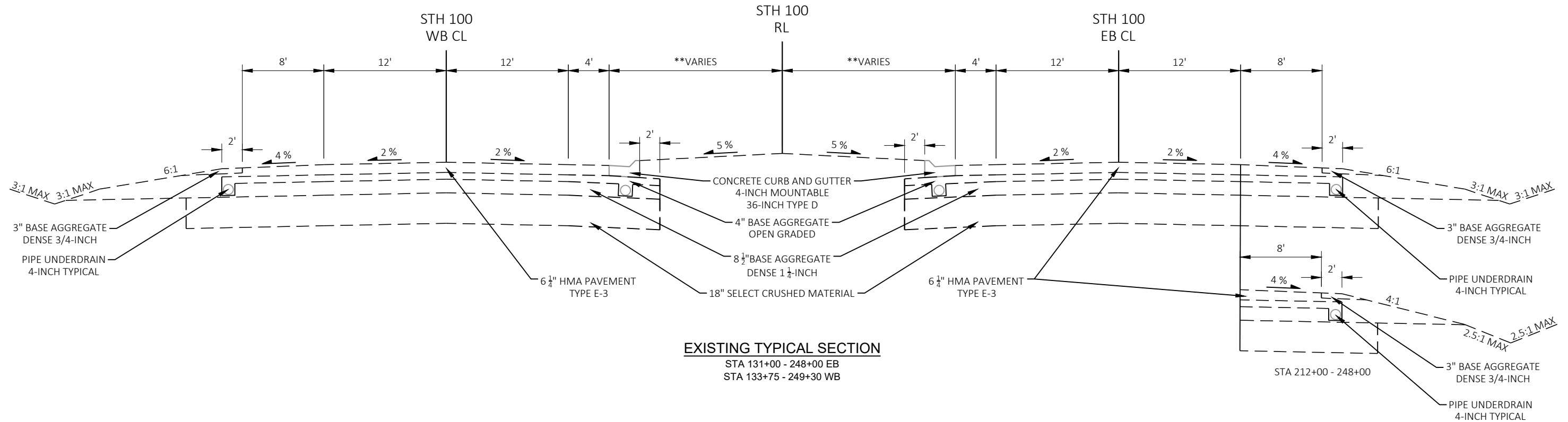
Rob Merry
W239 N1812 Rockwood Drive
Waukesha, WI 53187-1607
Phone: (262) 953-4289
Cell: (920) 912-1036
rmerry@sewrpc.org

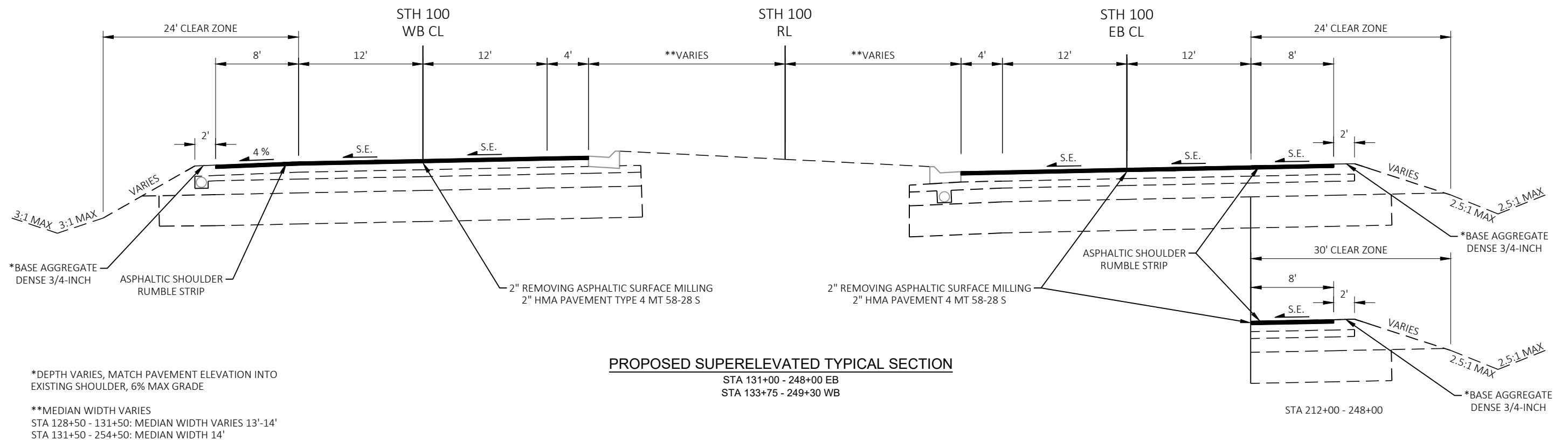
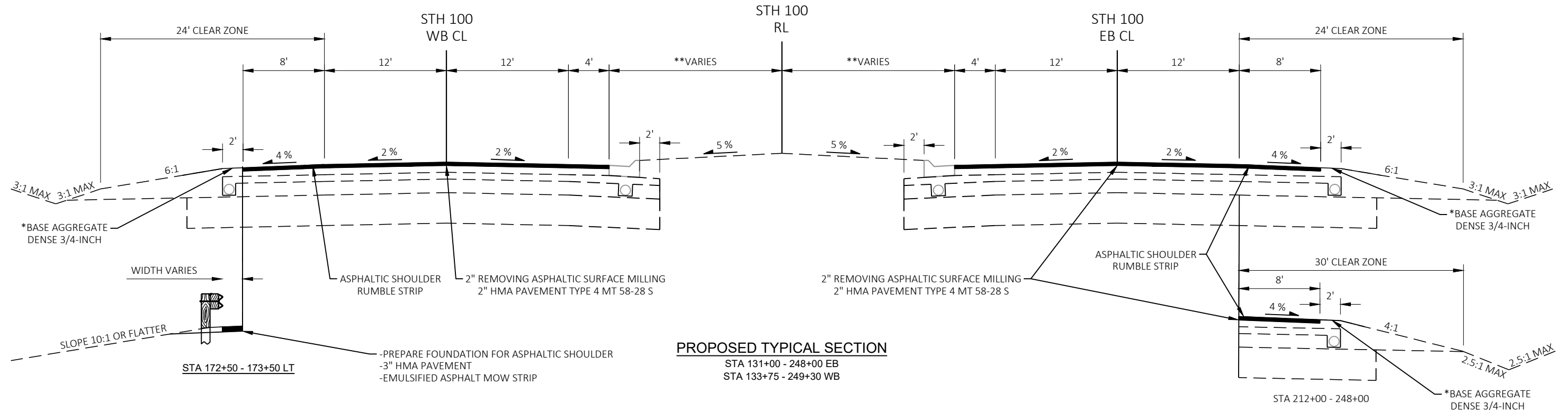
WISDOT PROJECT MANAGER

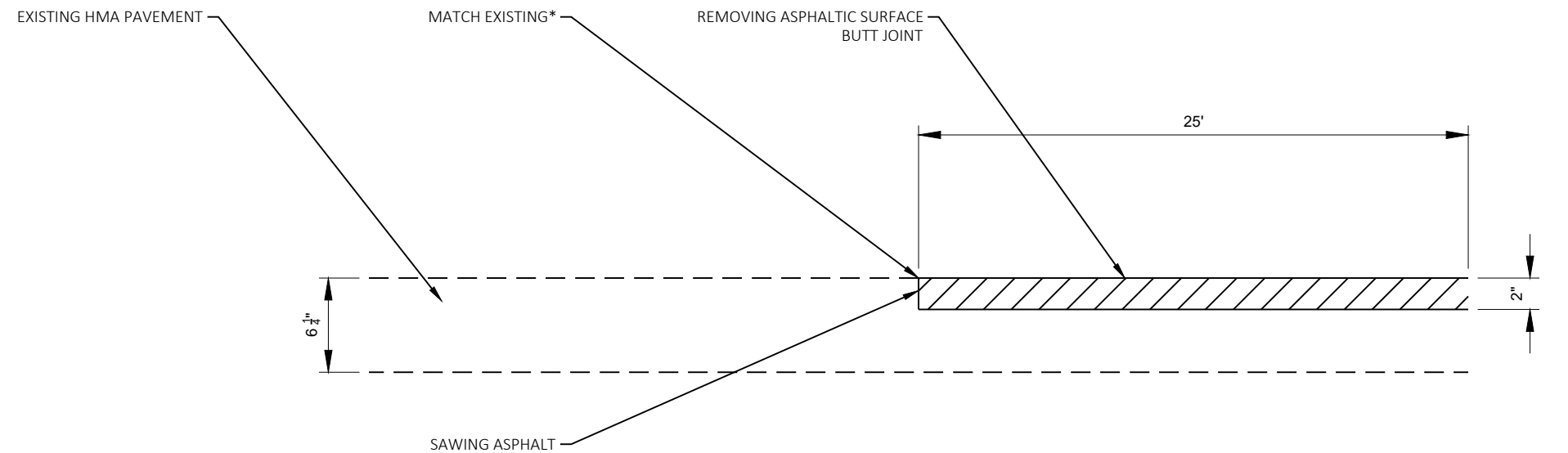
Robert Bellin
141 NW Barstow Street, PO Box 798
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(262) 521-4405
robert.bellin@dot.wi.gov



PROJECT NO: 2040-03-75	HWY: STH 100	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET	E
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BUTT JOINT DETAIL

STH 100
STA 131+00 - STA 131+25
STA 133+75 - STA 134+00
STA 170+05 - STA 170+30
STA 169+98 - STA 170+23
STA 172+03 - STA 172+28
STA 172+10 - STA 172+35
STA 247+75 - STA 248+00
STA 249+05 - STA 249+30

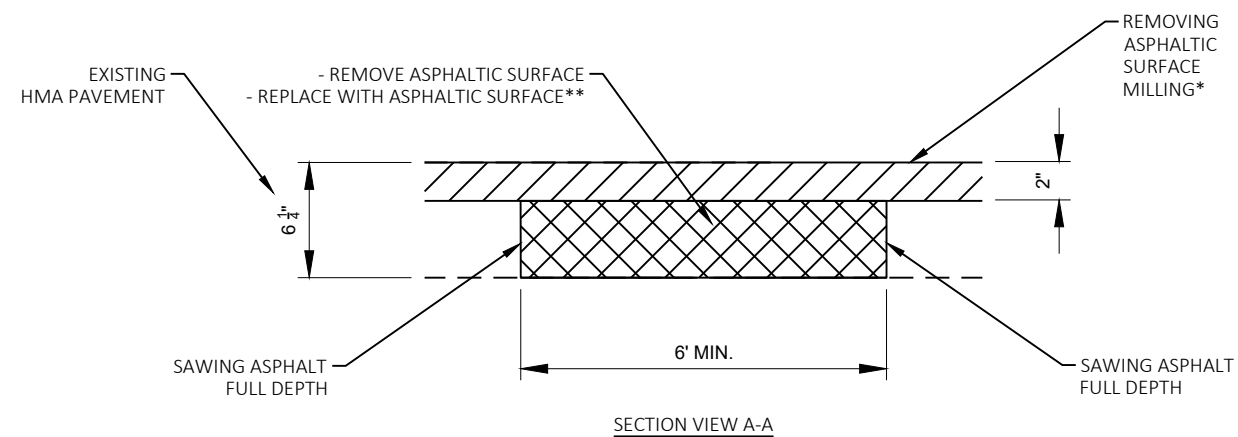
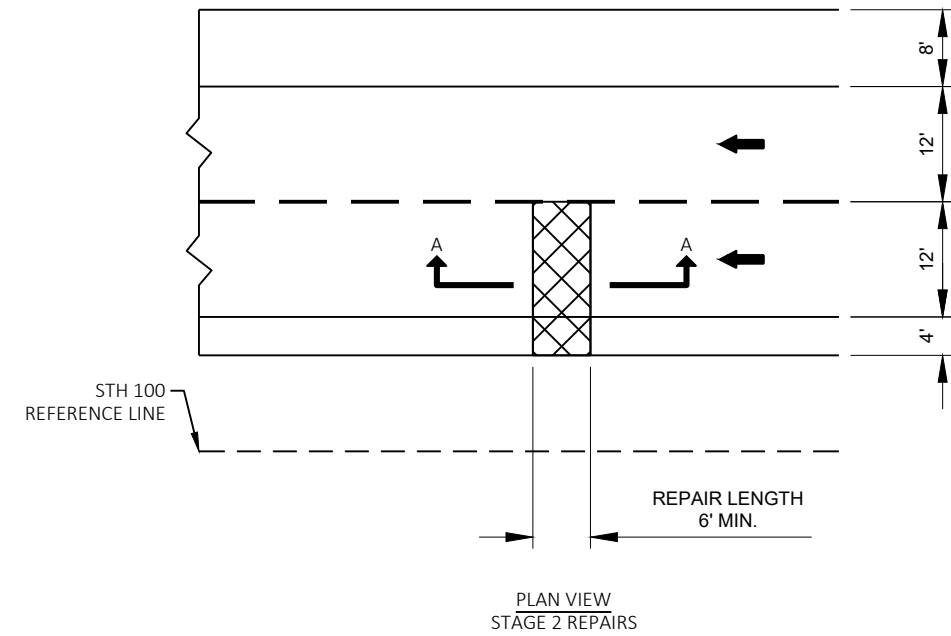
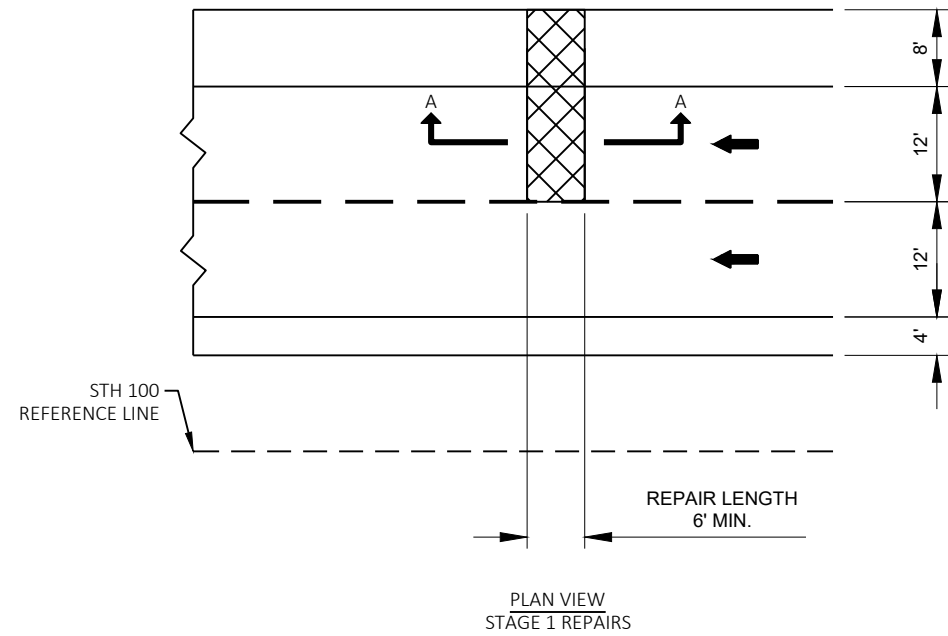
NICHOLSON RD
STA 28+86 - STA 29+11
STA 31+35 - STA 31+60

PENNSYLVANIA RD
STA 38+96 - STA 39+21
STA 40+92 - STA 41+17

15TH AVE
STA 48+84 - STA 49+09
STA 50+80 - STA 51+05

*FINAL MATCH LOCATION TO
BE DETERMINED IN FIELD BY
PROJECT ENGINEER

ASPHALTIC SURFACE REPAIRS



FULL DEPTH ASPHALTIC SURFACE REPAIR DETAIL

STH 100
STA 155+00 RT▲
STA 156+40 RT▲
STA 158+10 RT▲
STA 160+05 LT▲
STA 162+20 LT▲
STA 163+75 LT▲

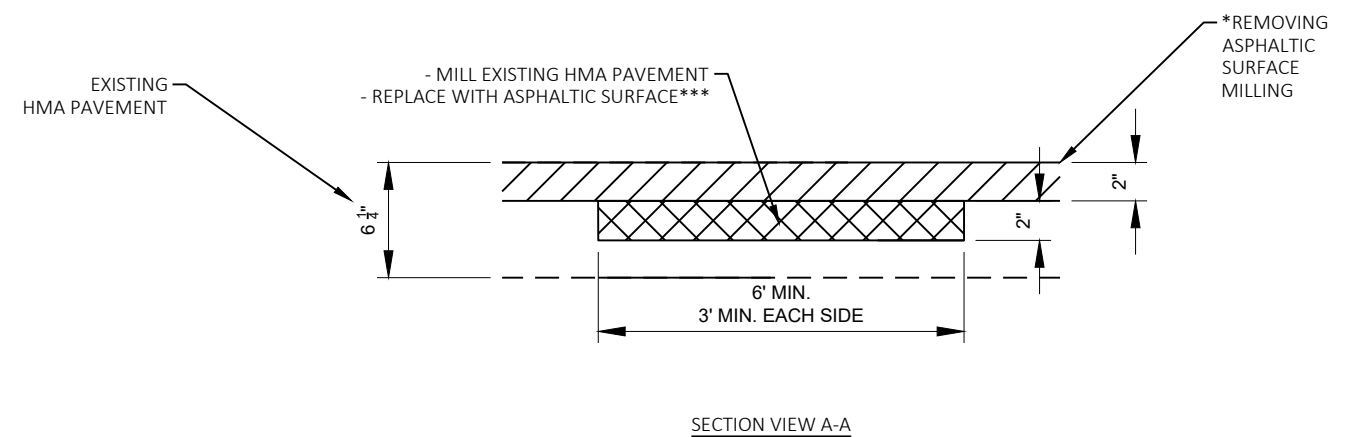
FINAL DIMENSIONS
TO BE DETERMINED
BY ENGINEER IN FIELD

NICHOLSON RD
STA 28+90 RT▲
STA 31+10 LT▲

▲ LOOP DETECTOR
REPLACEMENT
LOCATIONS TO BE
PAID AS REMOVING
ASPHALTIC SURFACE
(204.0110) AND
ASPHALTIC SURFACE
(465.0105)

*REMOVING ASPHALTIC
SURFACE MILLING PRIOR TO
ASPHALTIC SURFACE REPAIR

**PLACE ASPHALTIC SURFACE
IN TWO LIFTS AND COMPACT
WITH A ROLLER



PARTIAL DEPTH ASPHALTIC SURFACE REPAIR DETAIL

STH 100
LOCATIONS TO BE DETERMINED
BY ENGINEER IN FIELD

*REMOVING ASPHALTIC
SURFACE MILLING PRIOR TO
ASPHALTIC SURFACE REPAIR

***COMPACT ASPHALTIC
SURFACE WITH A ROLLER

PROJECT NO: 2040-03-75

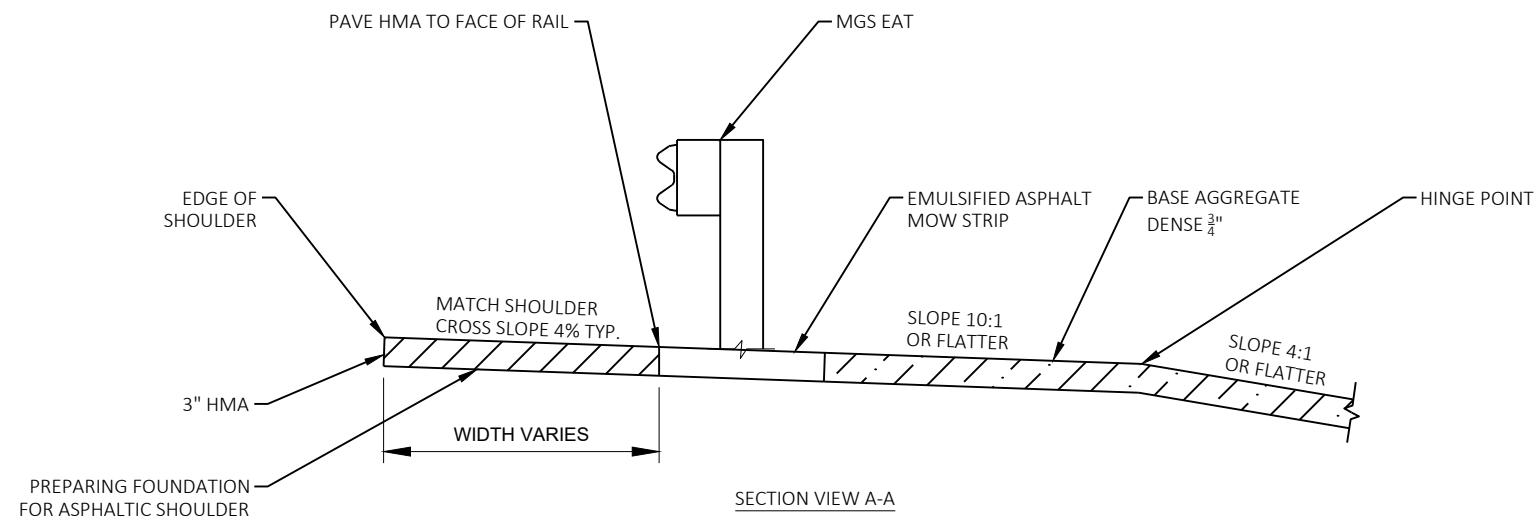
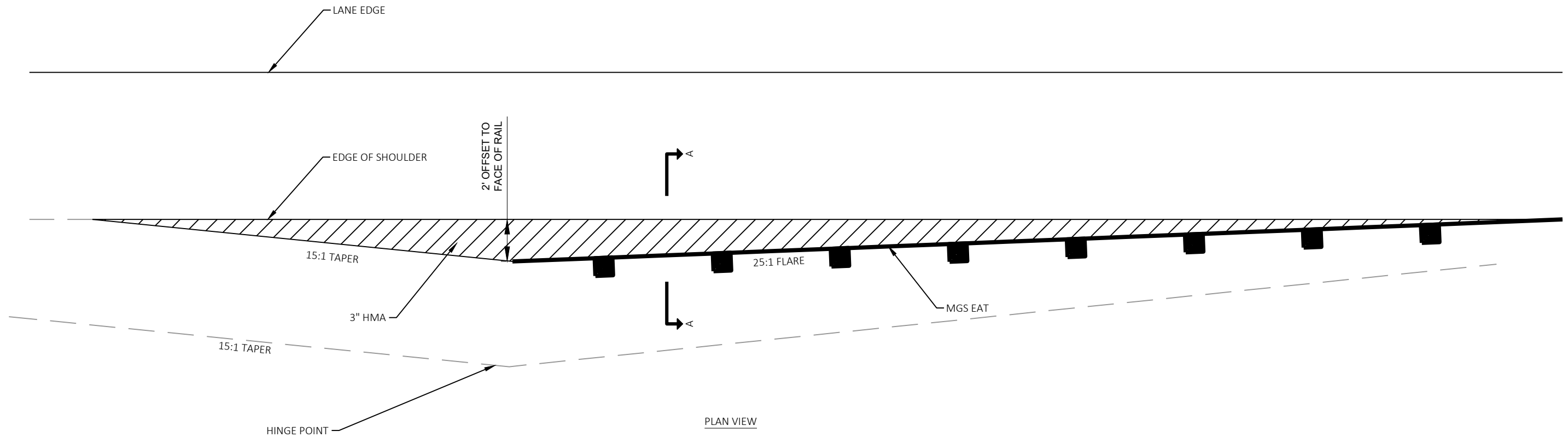
HWY: STH 100

COUNTY: MILWAUKEE

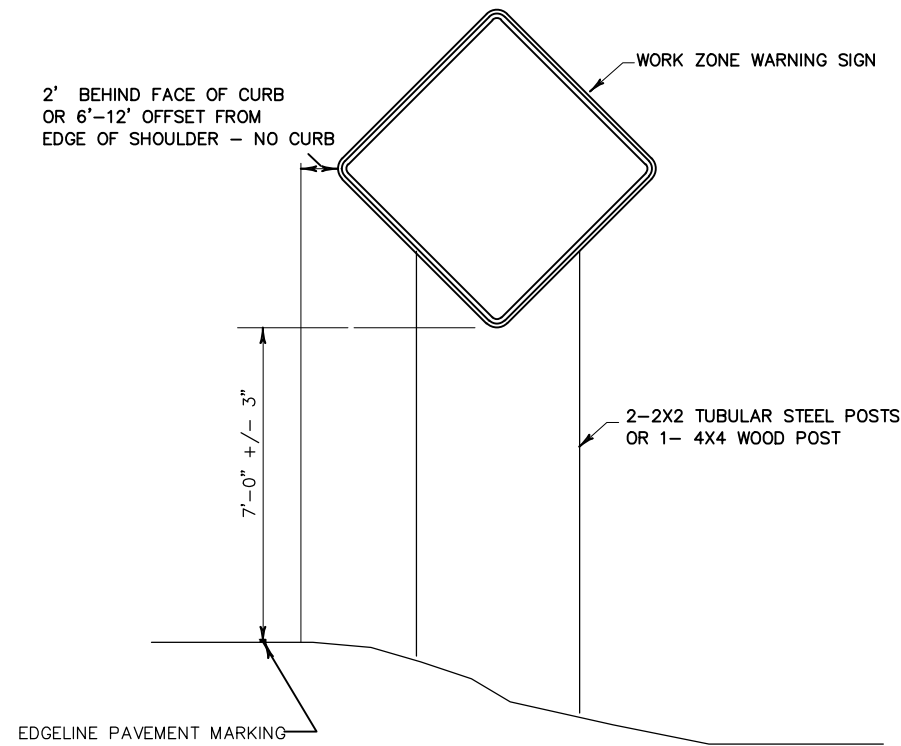
CONSTRUCTION DETAIL

SHEET

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MGS EAT PAVING DETAIL
STA 172+50 - 173+50 LT

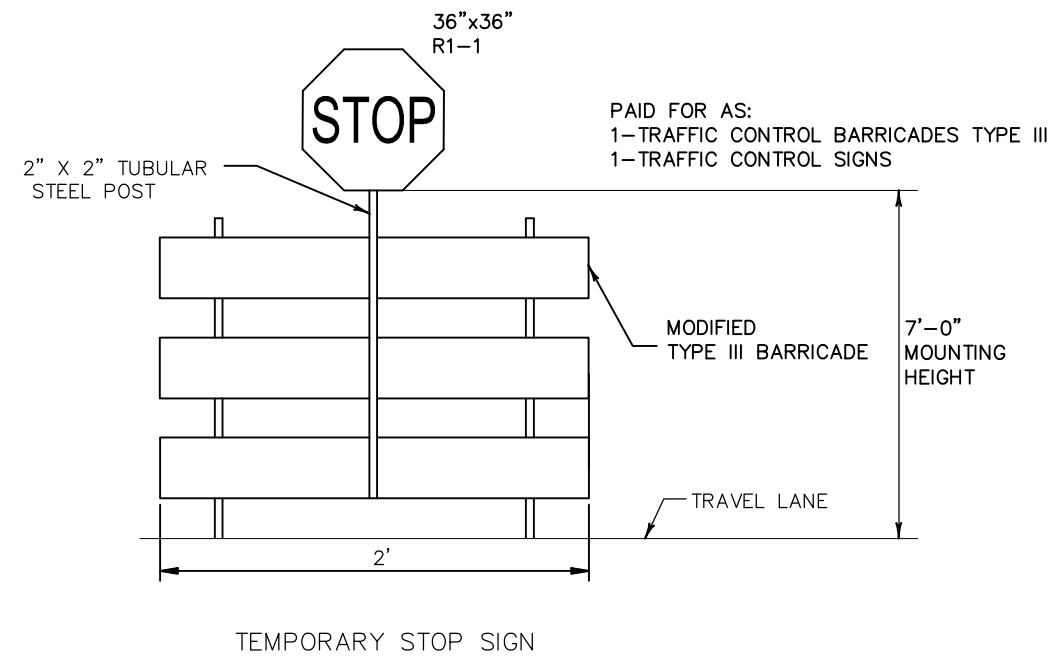


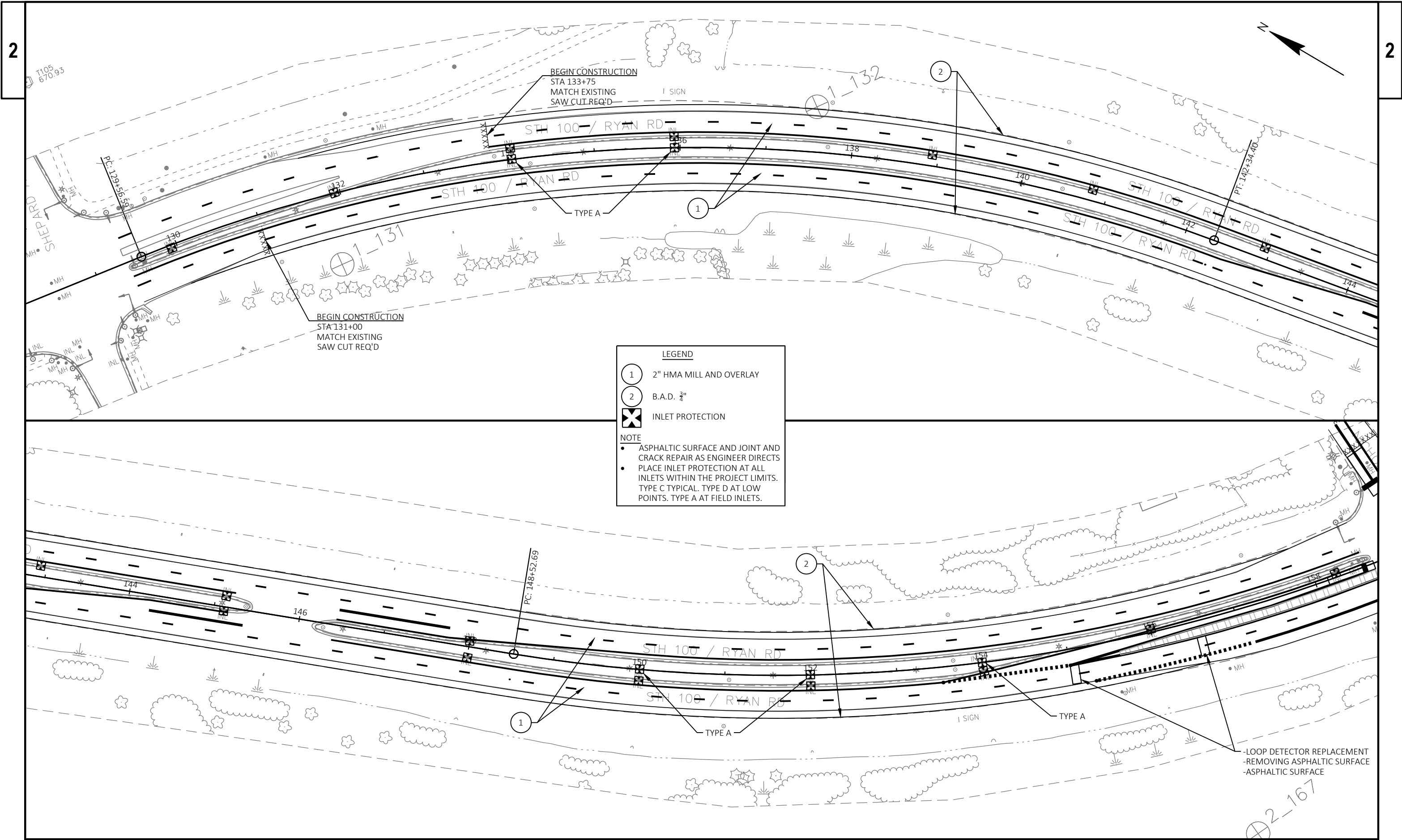
TYPICAL TEMPORARY TRAFFIC CONTROL DETAIL
MOUNTING ON FIXED SUPPORT

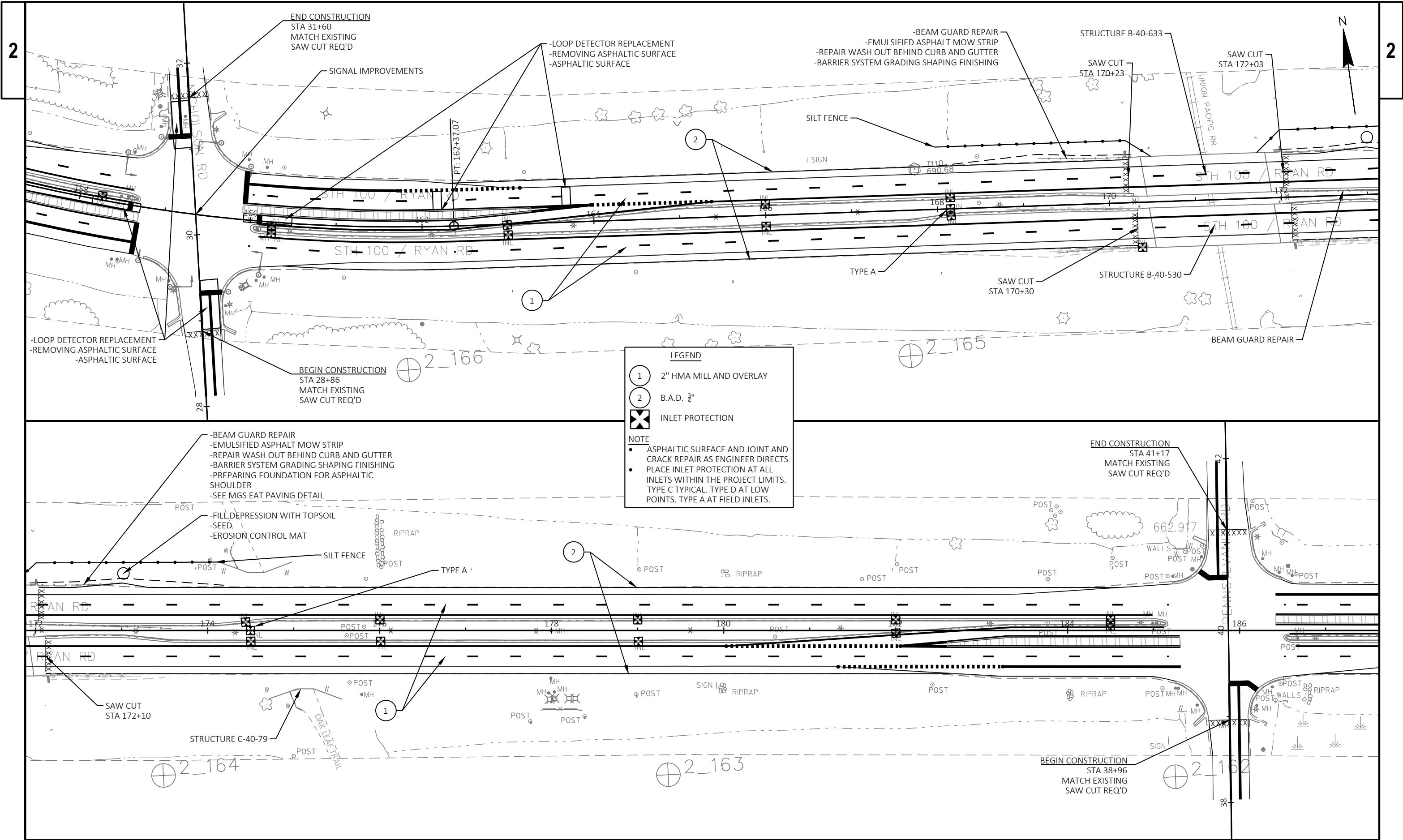
LONG TERM
7 DAYS OR MORE

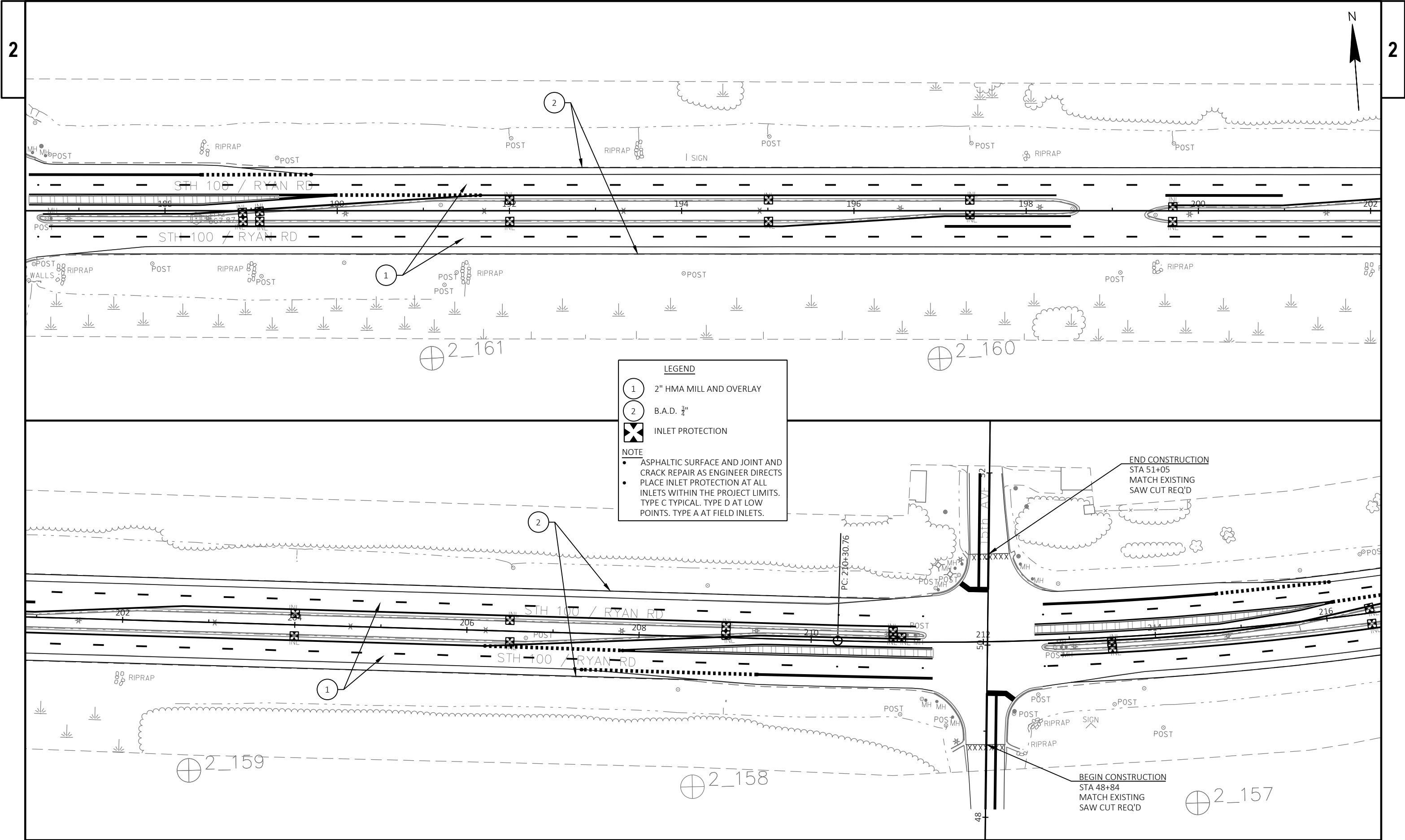
GENERAL NOTES FOR TRAFFIC CONTROL

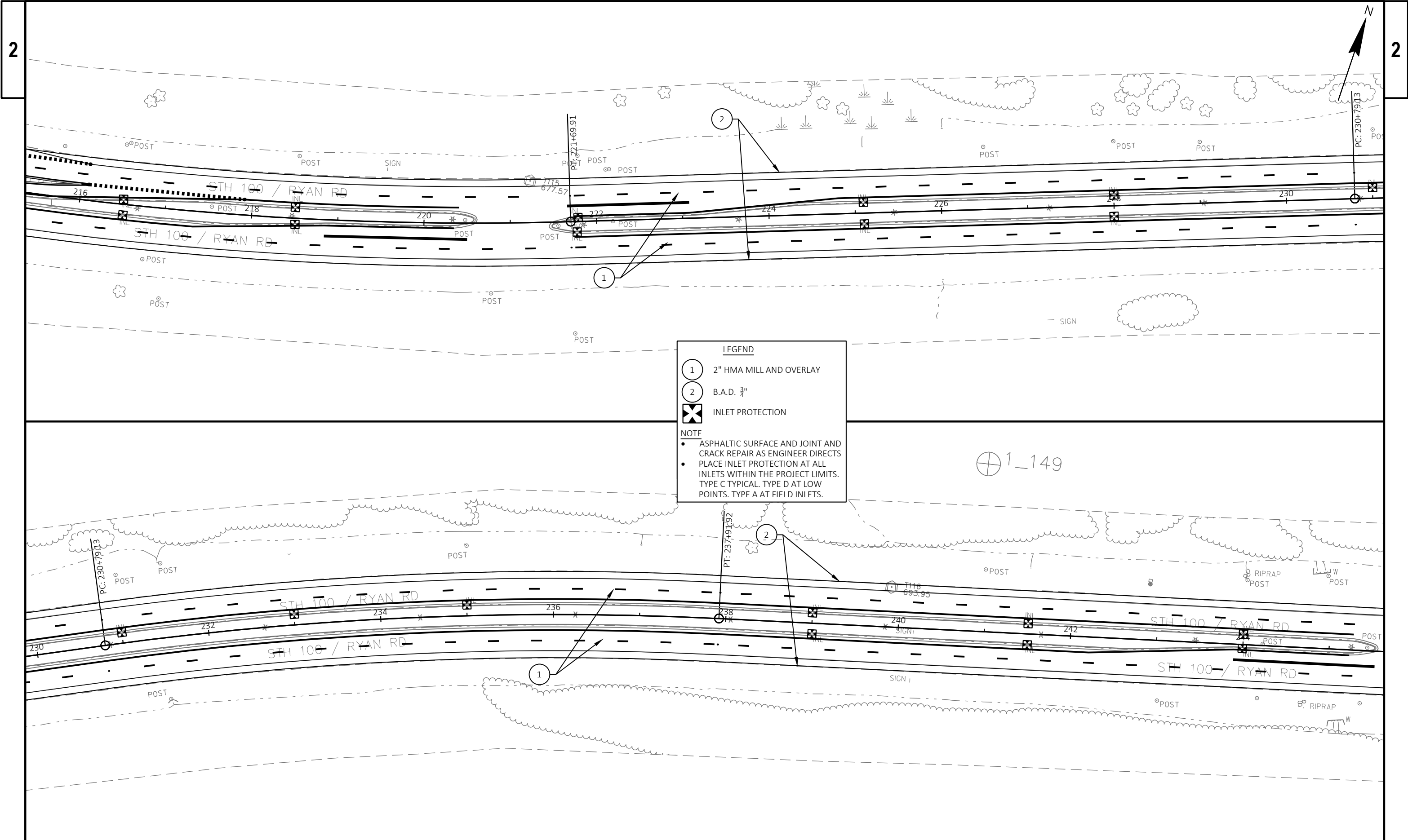
1. TRAFFIC CONTROL DRUMS IN TAPERS, SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN.
2. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
3. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
4. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
5. BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.

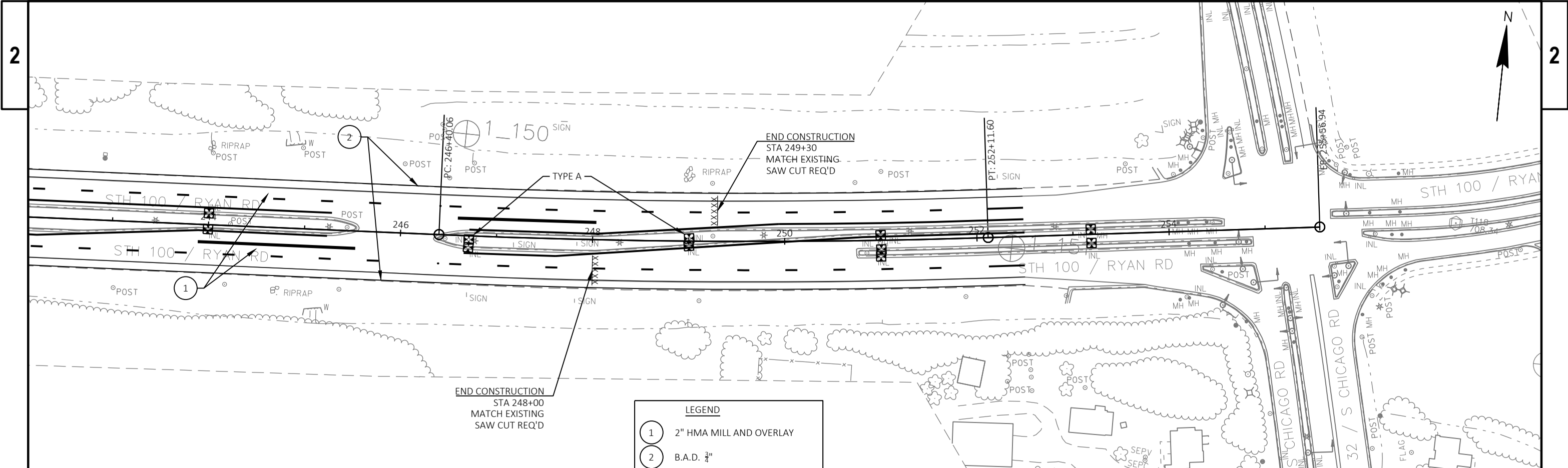








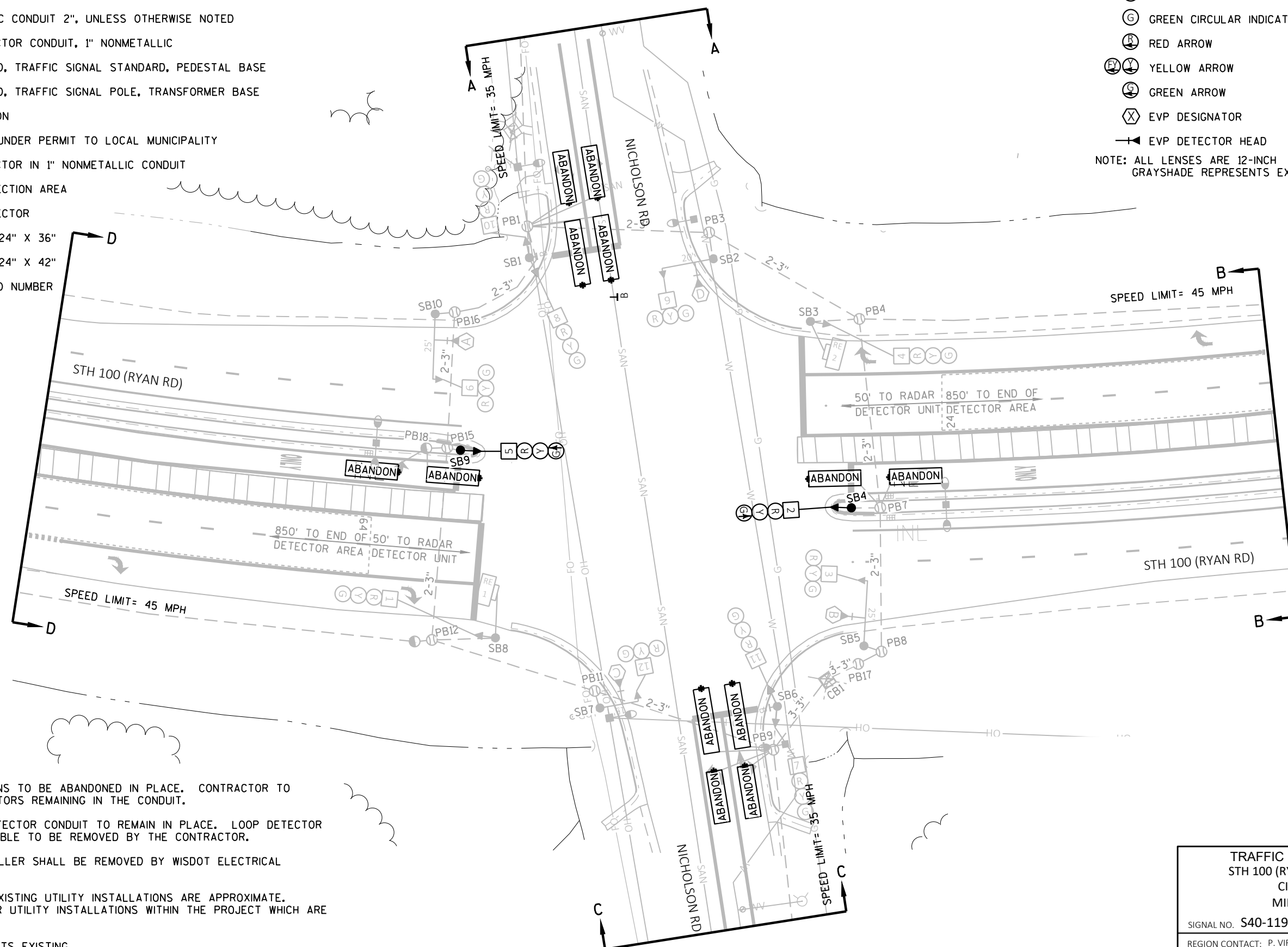




LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PUSH BUTTON
- LUMINAIRE, UNDER PERMIT TO LOCAL MUNICIPALITY
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- RADAR DETECTION AREA
- RADAR DETECTOR
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- SIGNAL HEAD NUMBER

- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

- EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
- ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
- CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
- THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
- GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.

TRAFFIC CONTROL SIGNAL
STH 100 (RYAN RD) & NICHOLSON RD
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. S40-1192

REGION CONTACT: P. VIRK
DESIGNED BY:
REVISED BY: S. WAGNER

PAGE 1 OF 3

PROJECT NO: 2040-03-75

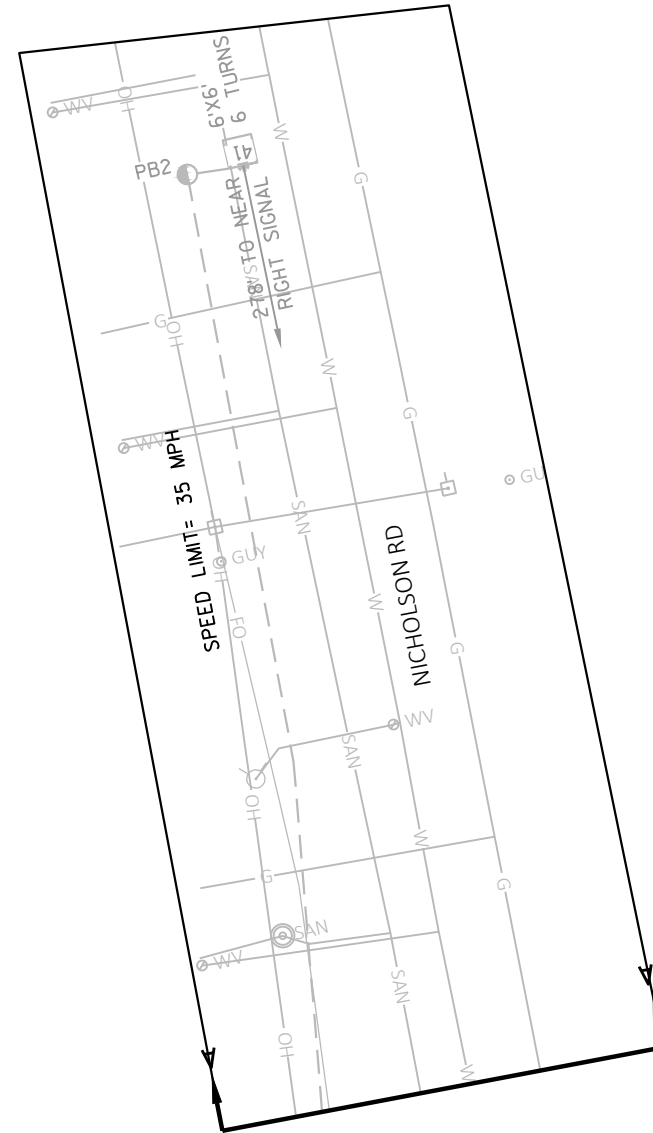
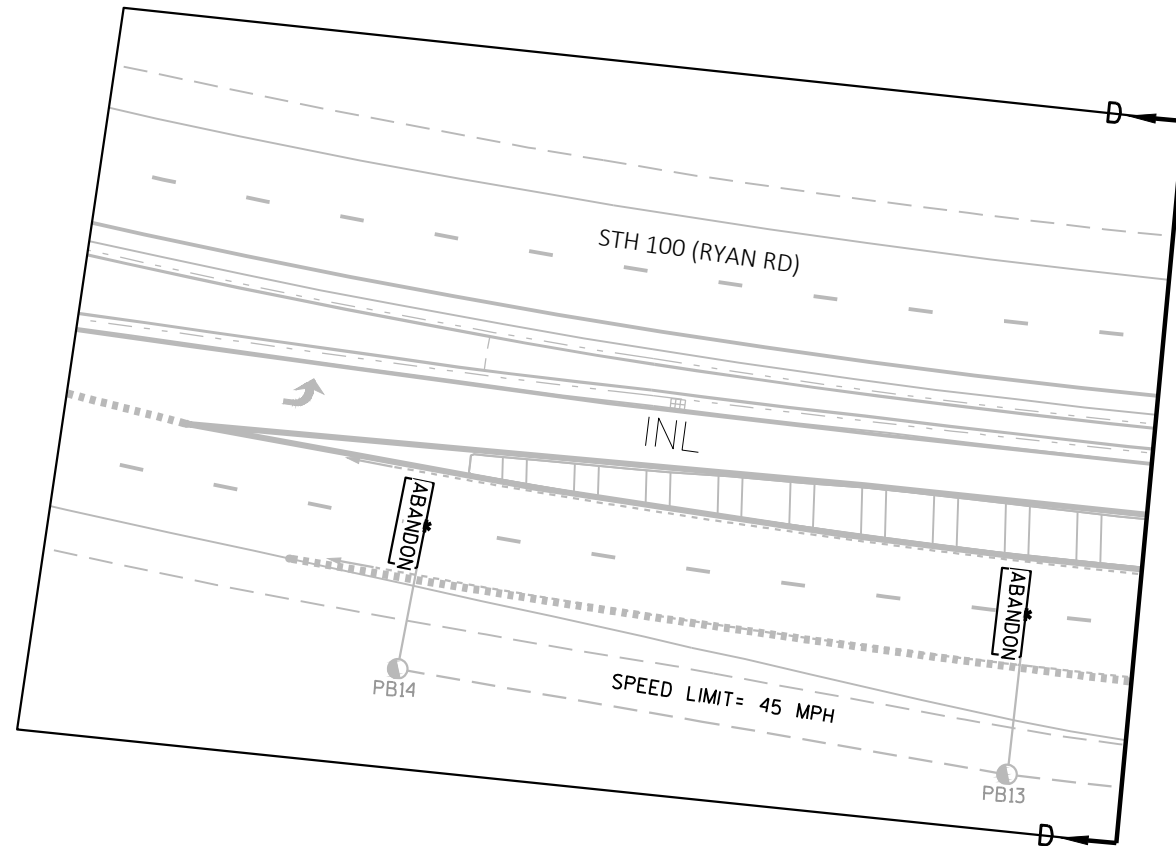
HWY: STH 100

COUNTY: MILWAUKEE

TRAFFIC SIGNAL REMOVAL PLAN

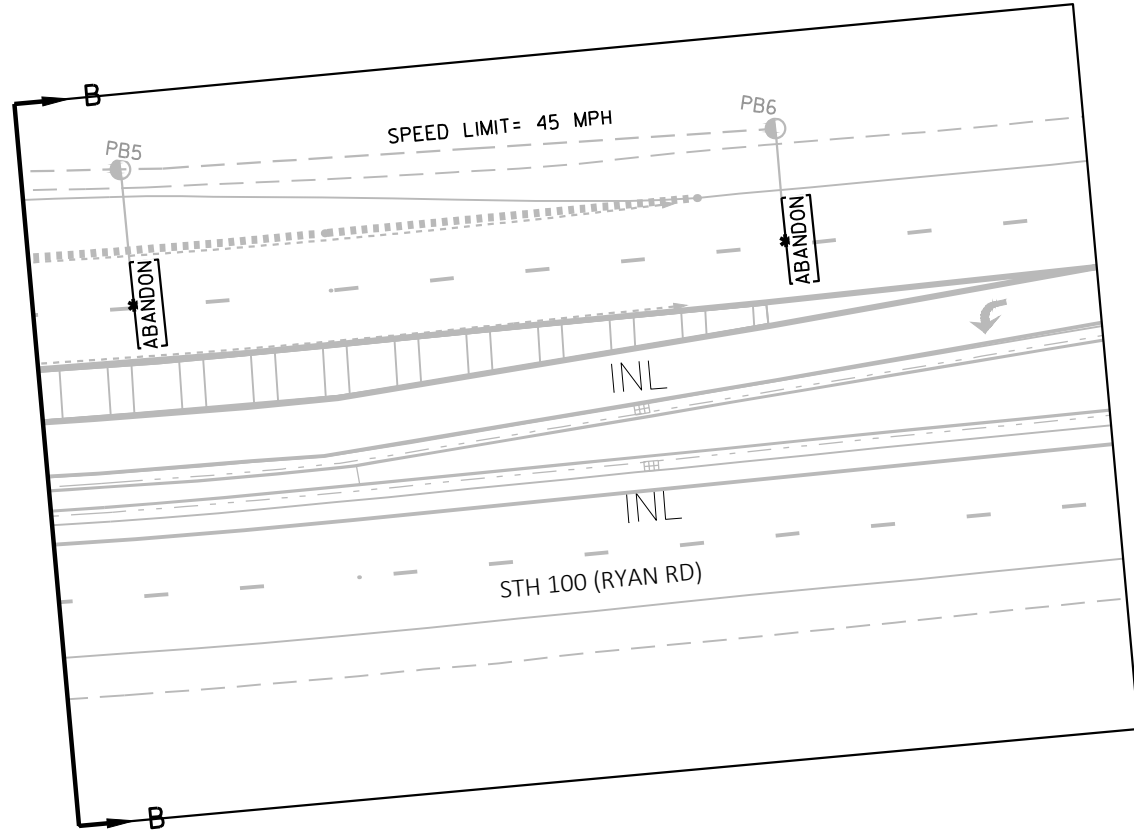
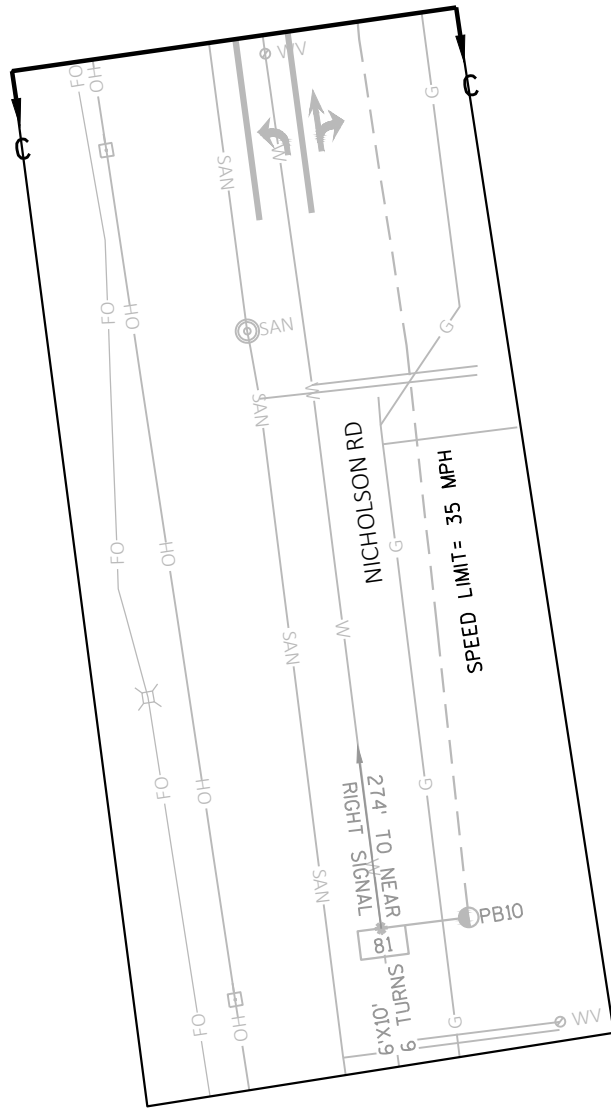
SHEET

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TRAFFIC CONTROL SIGNAL STH 100 (RYAN RD) & NICHOLSON RD CITY OF OAK CREEK MILWAUKEE COUNTY	
SIGNAL NO. S40-1192	
REGION CONTACT: P. VIRK DESIGNED BY: REVISED BY: S. WAGNER	PAGE 2 OF 3

PROJECT NO: 2040-03-75	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET	E
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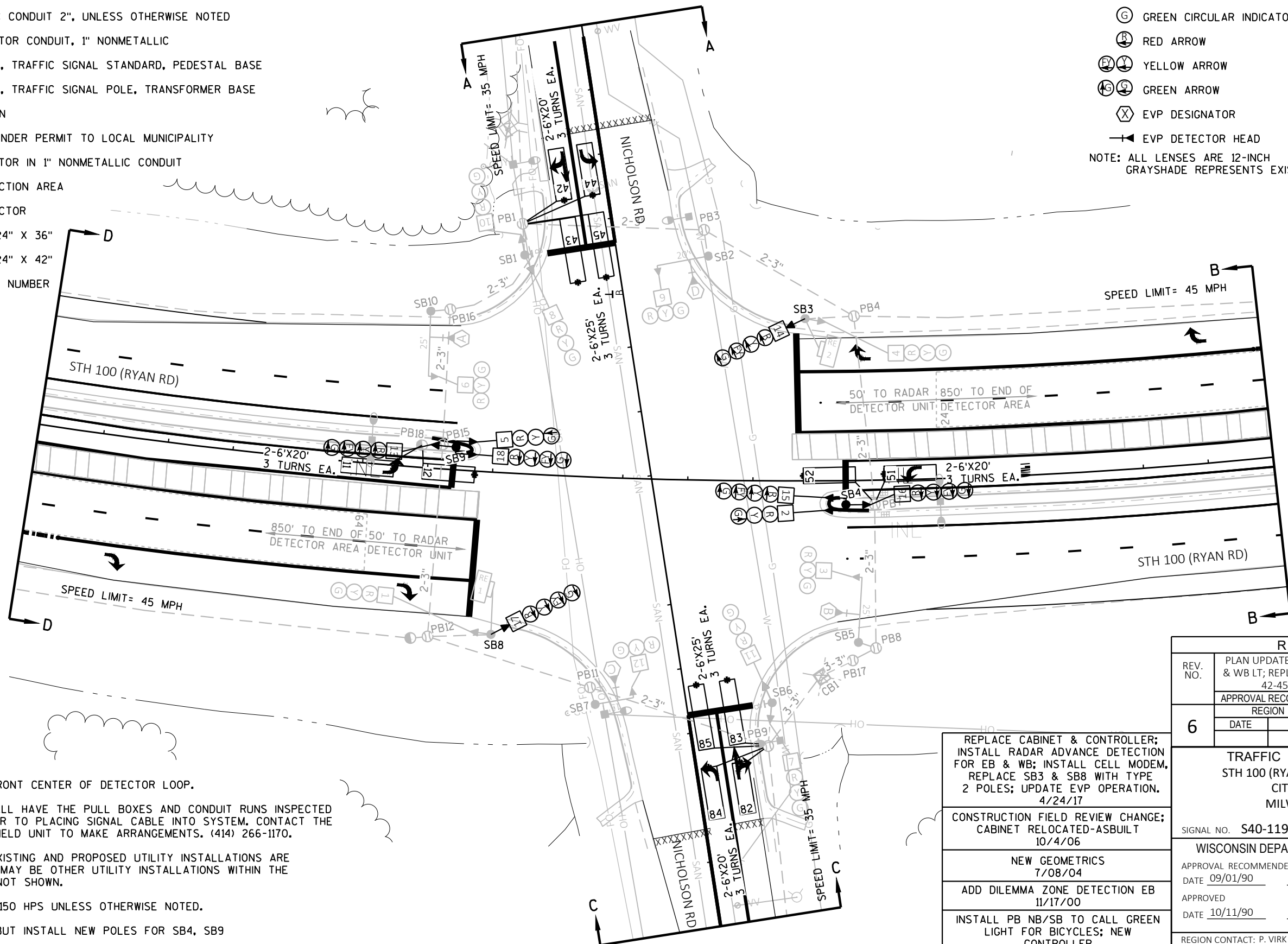


TRAFFIC CONTROL SIGNAL STH 100 (RYAN RD) & NICHOLSON RD CITY OF OAK CREEK MILWAUKEE COUNTY	
SIGNAL NO. S40-1192	
REGION CONTACT: P. VIRK DESIGNED BY: REVISED BY: S. WAGNER	PAGE 3 OF 3

LEGEND

- ☒ CONTROL CABINET
--- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
— LOOP DETECTOR CONDUIT, 1" NONMETALLIC
◀● SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
◀●(XX') SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
—∞ PUSH BUTTON
● LUMINAIRE, UNDER PERMIT TO LOCAL MUNICIPALITY
☐ LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
--- RADAR DETECTION AREA
☐ RADAR DETECTOR
● PULL BOX, 24" X 36"
● PULL BOX, 24" X 42"
XX SIGNAL HEAD NUMBER

- Ⓡ RED CIRCULAR INDICATOR
Ⓢ YELLOW CIRCULAR INDICATOR
Ⓢ GREEN CIRCULAR INDICATOR
Ⓡ RED ARROW
Ⓢ YELLOW ARROW
Ⓢ GREEN ARROW
Ⓢ EVP DESIGNATOR
▶ EVP DETECTOR HEAD
NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

- * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
- THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
- THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
- ALL LUMINAIRES ARE 150 HPS UNLESS OTHERWISE NOTED.
- KEEP SIGNAL BASES BUT INSTALL NEW POLES FOR SB4, SB9

REPLACE CABINET & CONTROLLER;
INSTALL RADAR ADVANCE DETECTION
FOR EB & WB; INSTALL CELL MODEM.
REPLACE SB3 & SB8 WITH TYPE
2 POLES; UPDATE EVP OPERATION.
4/24/17

CONSTRUCTION FIELD REVIEW CHANGE;
CABINET RELOCATED-ASBUILT
10/4/06

NEW GEOMETRICS
7/08/04

ADD DILEMMA ZONE DETECTION EB
11/17/00

INSTALL PB NB/SB TO CALL GREEN
LIGHT FOR BICYCLES; NEW
CONTROLLER
5/96

REVISION

REV. NO.	PLAN UPDATE PER FIELD REVIEW; ADD FYA TO EB LT & WB LT; REPLACE LOOPS 11,12,21-23, 51, 52, 61-63, 42-45, 82-85, INSTALL PB18 TO PB21			
	APPROVAL RECOMMENDED		APPROVED	
6	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY

TRAFFIC CONTROL SIGNAL
STH 100 (RYAN RD) & NICHOLSON RD
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. S40-1192
CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED	EDWARD J. FRIEDE REGION TRAFFIC ENGINEER
DATE 09/01/90	
APPROVED	HARRY O. PRICE STATE TRAFFIC ENGINEER
DATE 10/11/90	

REGION CONTACT: P. VIRK
DESIGNED BY:
REVISED BY: S. WAGNER

PAGE 1 OF 4

PROJECT NO: 2040-03-75

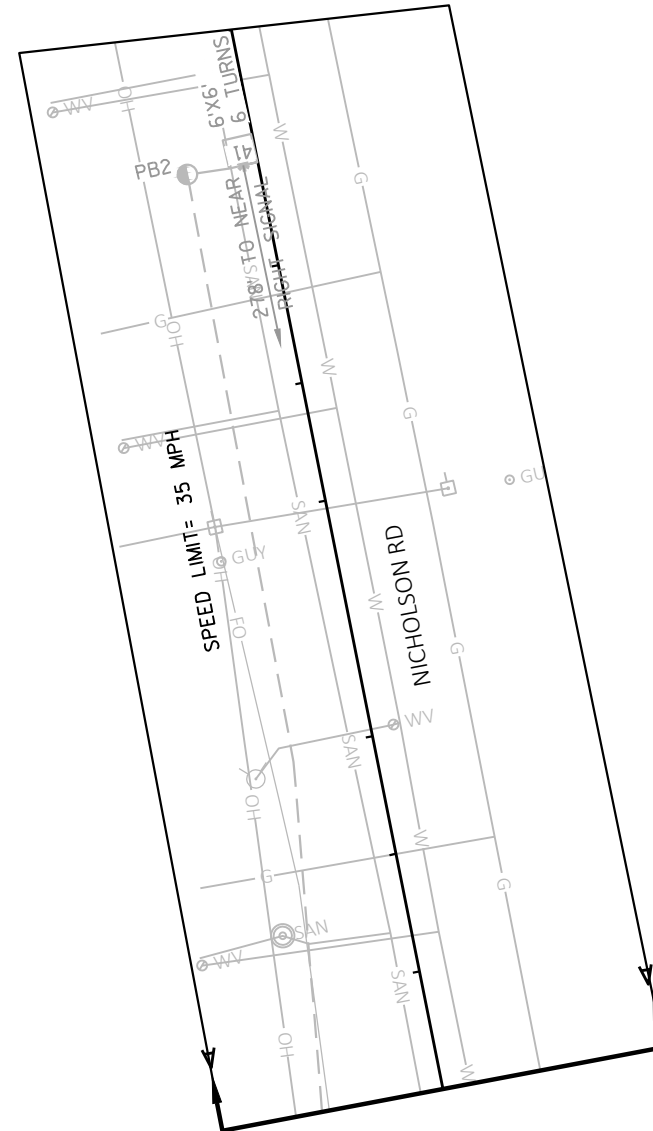
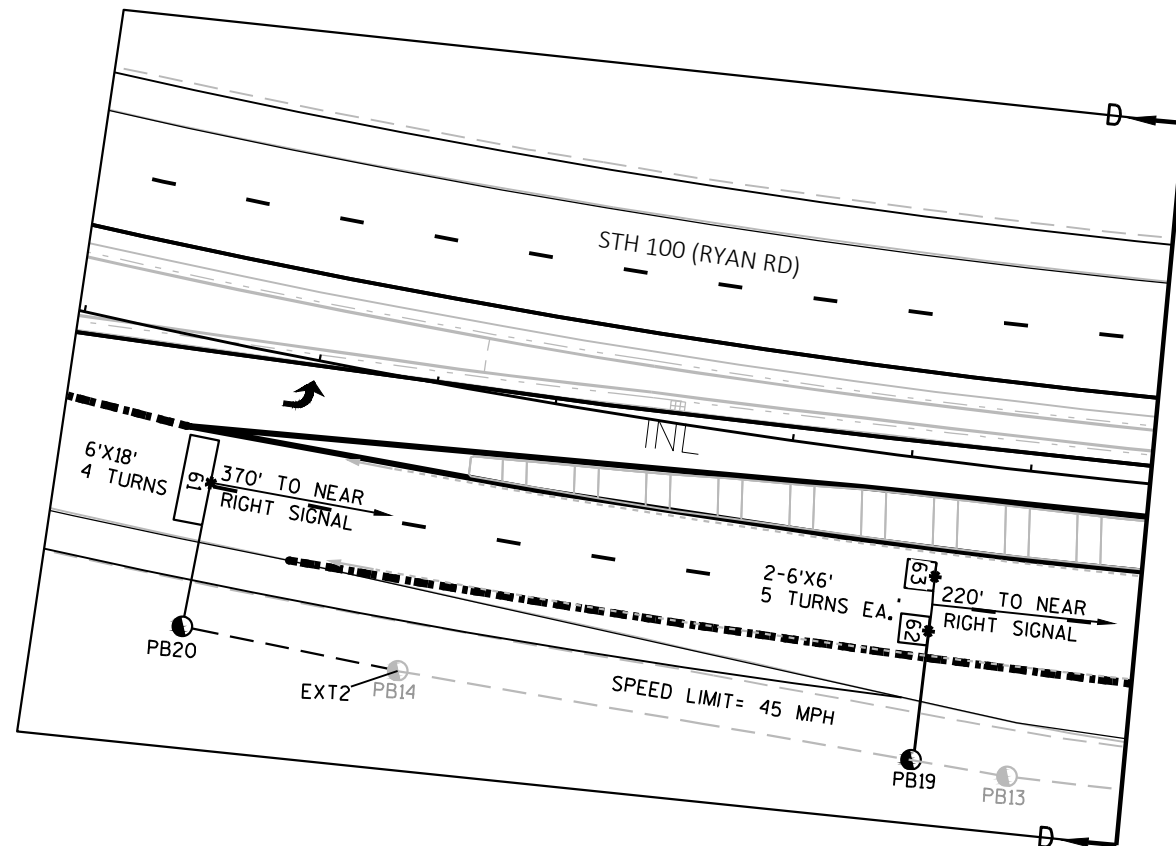
HWY: STH 100

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

E



TRAFFIC CONTROL SIGNAL
STH 100 (RYAN RD) & NICHOLSON RD
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. S40-1192

REGION CONTACT: P. VIRK
DESIGNED BY:
REVISED BY: S. WAGNER

PAGE 2 OF 4

PROJECT NO: 2040-03-75

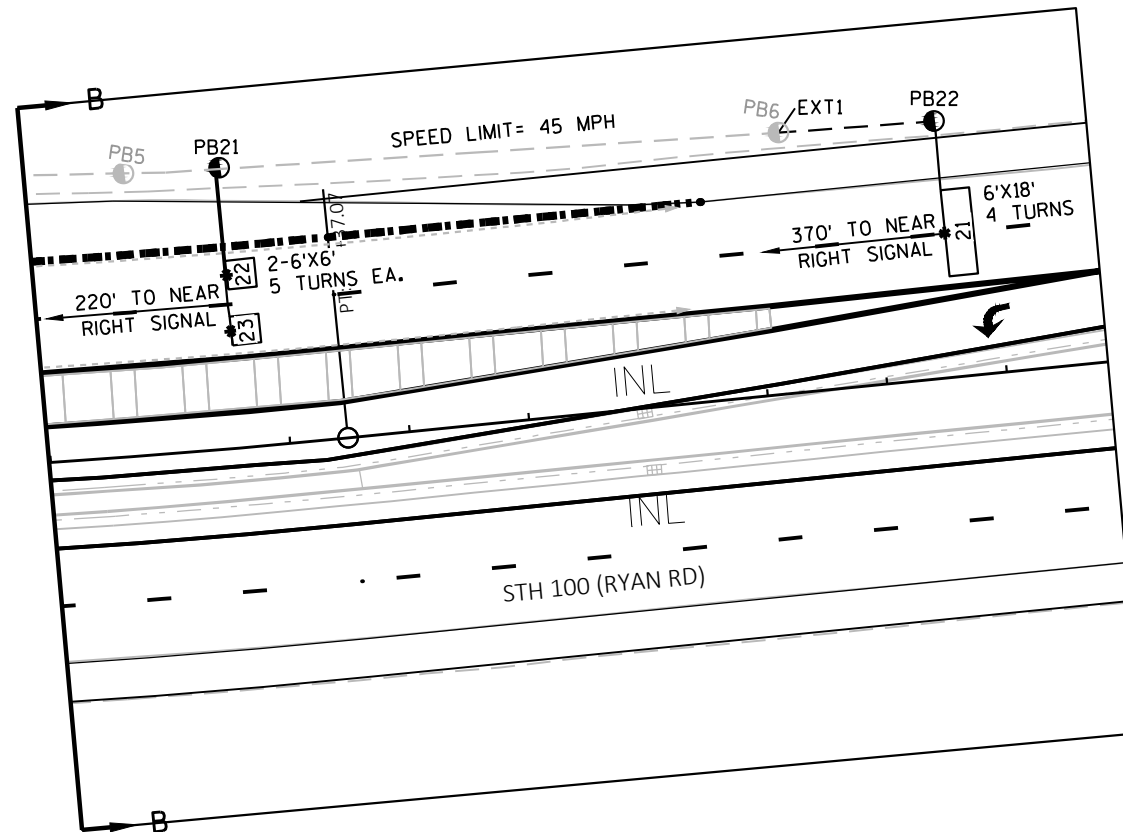
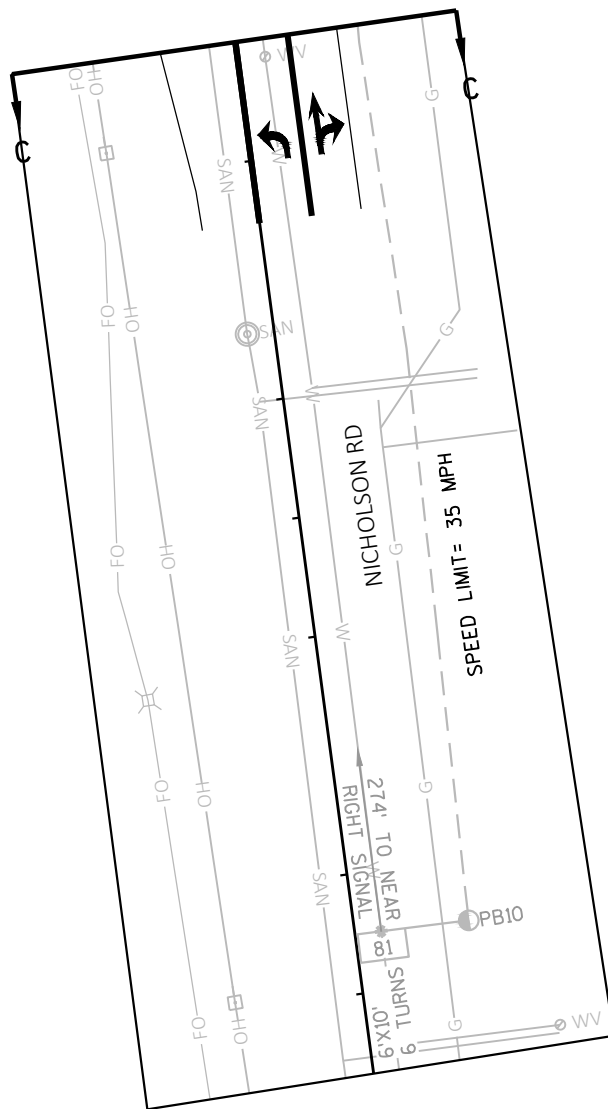
HWY: STH 100

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

E



TRAFFIC CONTROL SIGNAL
STH 100 (RYAN RD) & NICHOLSON RD
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. S40-1192

REGION CONTACT: P. VIRK
DESIGNED BY:
REVISED BY: S. WAGNER

PAGE 3 OF 4

PROJECT NO: 2040-03-75

HWY: STH 100

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

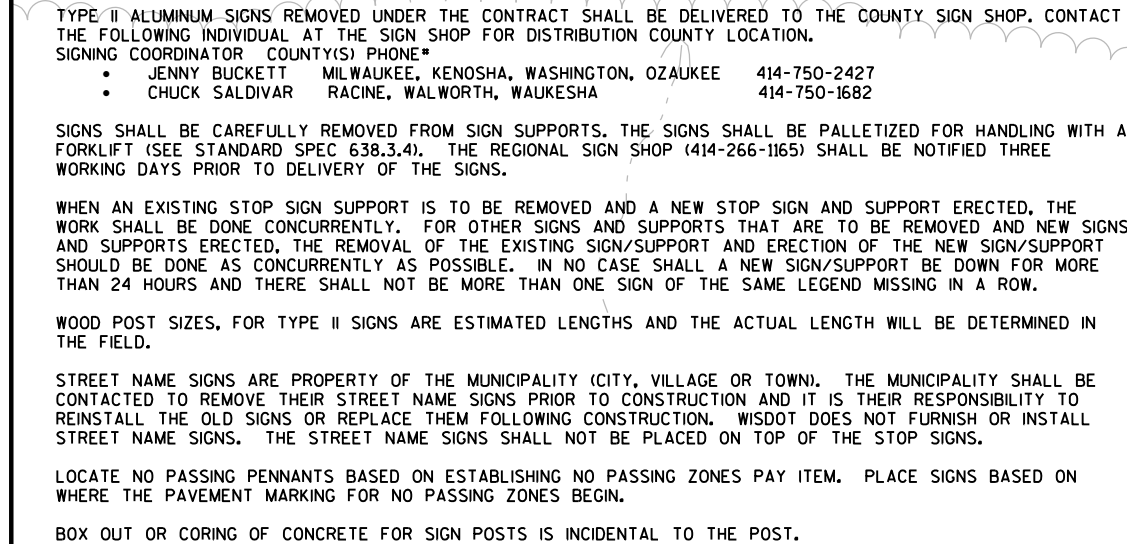
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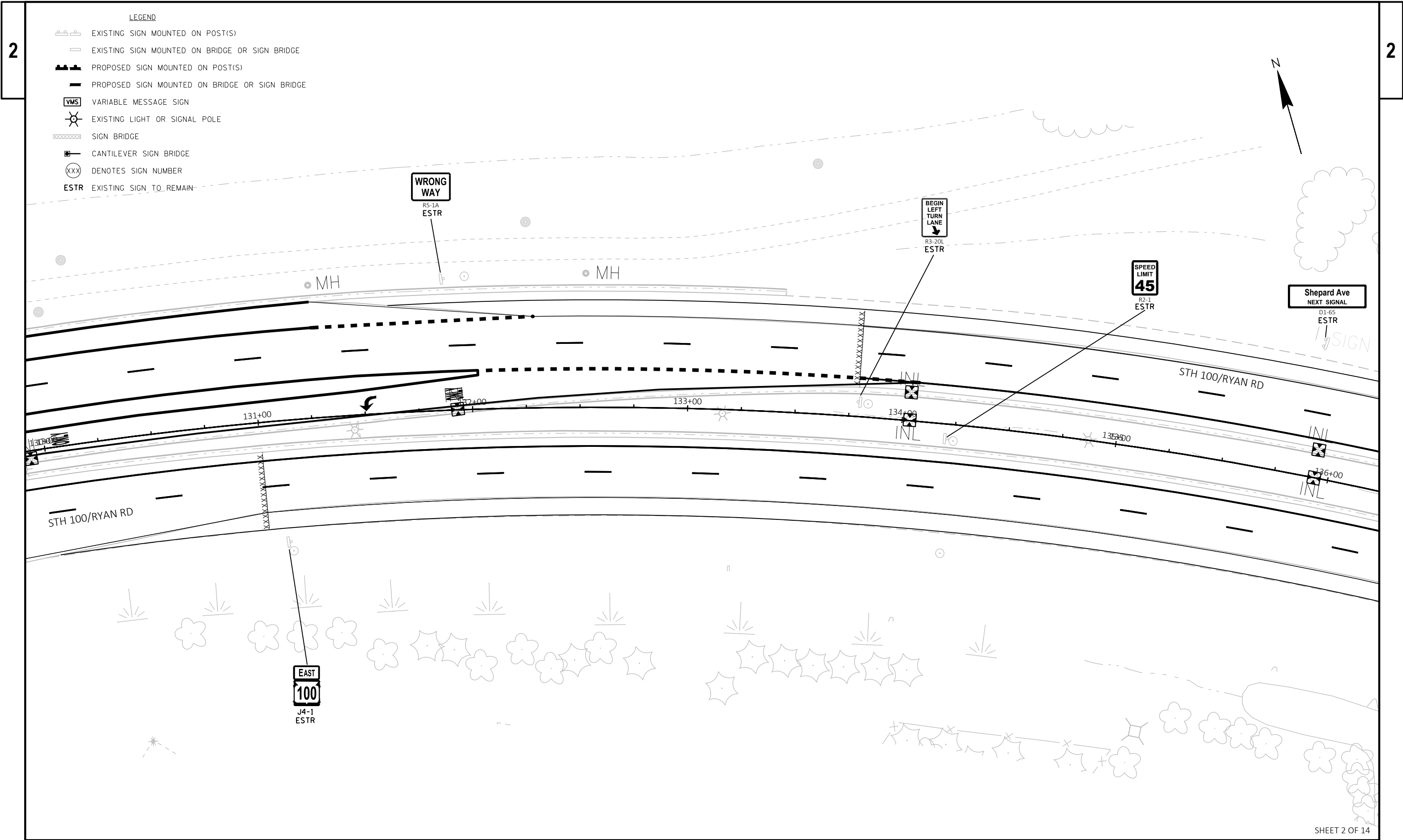
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PROJECT ID:	2040-03-75
INTERSECTION:	STH 100 (RYAN RD) & NICHOLSON RD

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

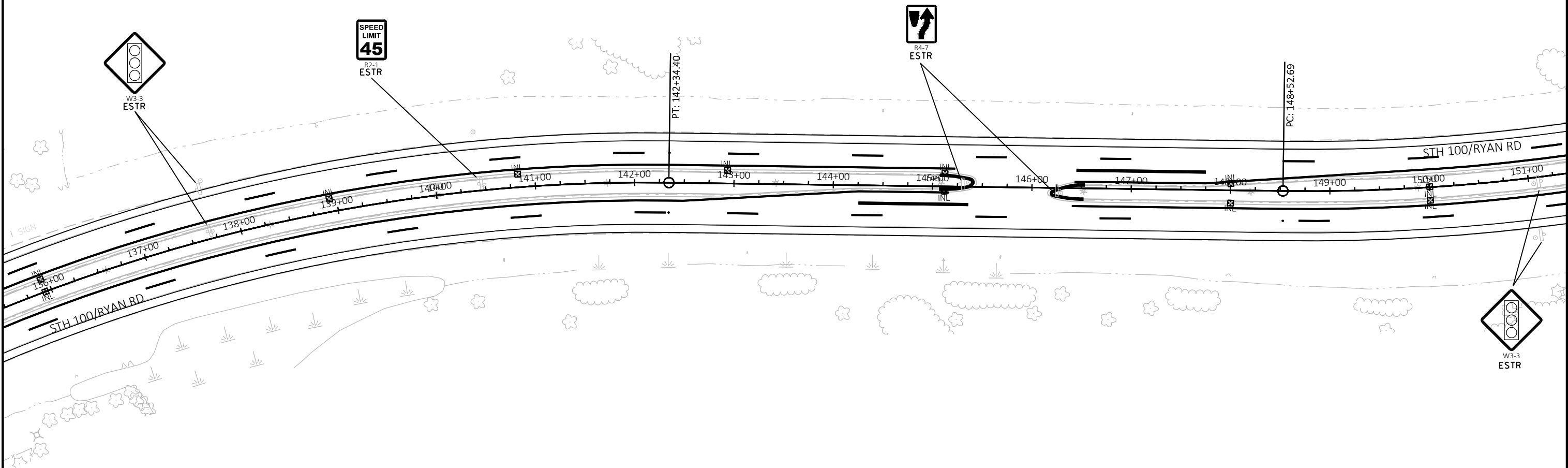
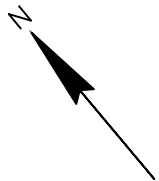
CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED NEUTRAL	PED INPUT
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB3	12	4	RED/BLK	PRG/BLK	GRN/BLK								
		14				RED	ORG	GRN	BLK/WHT				
SB4	12	2	RED	ORG	GRN								
		15				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		16				RED/WHT	ORG/WHT	GRN/WHT	BLU/WHT				
SB8	12	1	RED	ORG	GRN								
		17				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB9	15	5	RED/BLK	ORG/BLK	GRN/BLK								
		13				RED	ORG	GRN	BLK/WHT				
		18				RED/WHT	ORG/WHT	GRN/WHT	BLU/WHT				





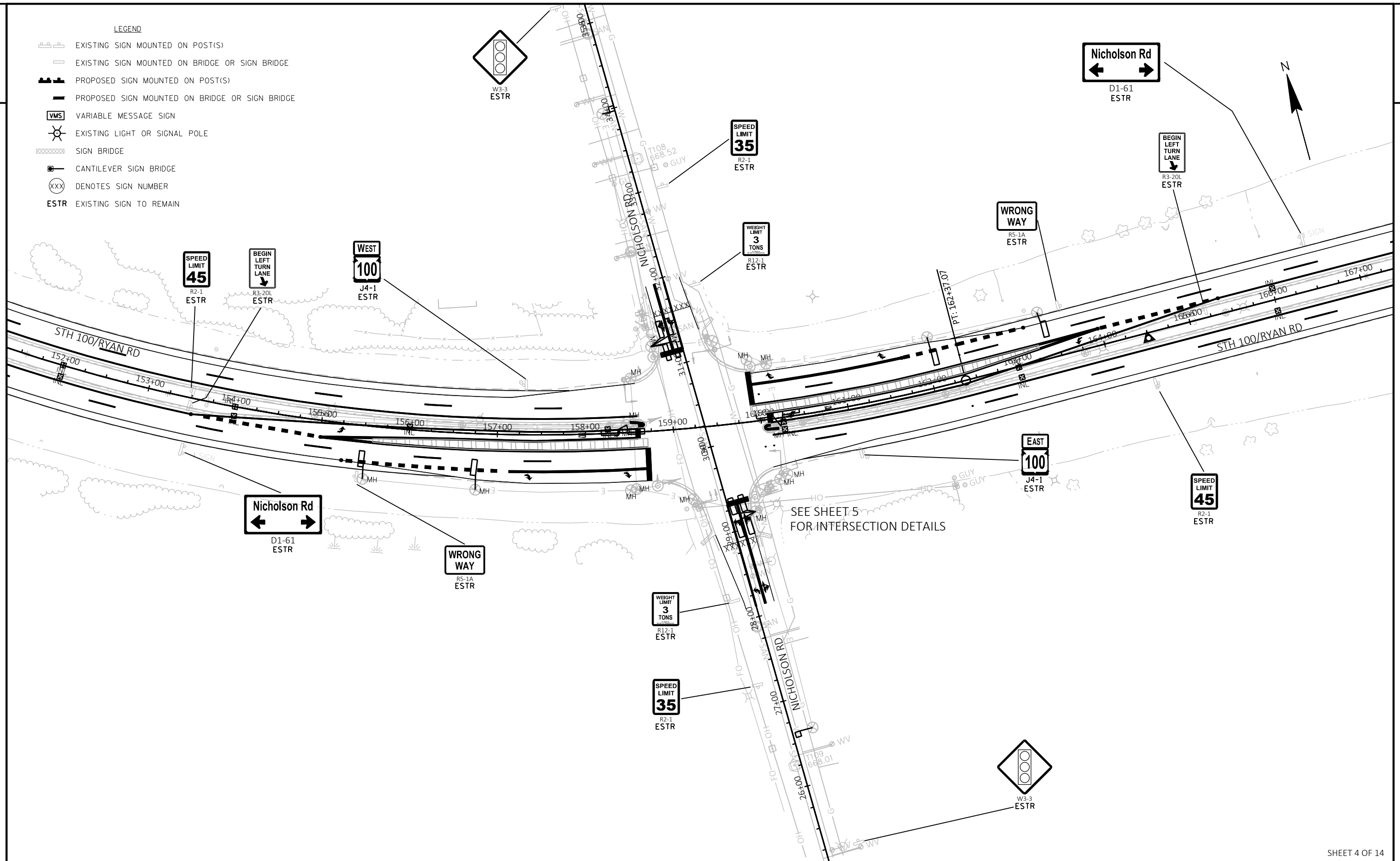
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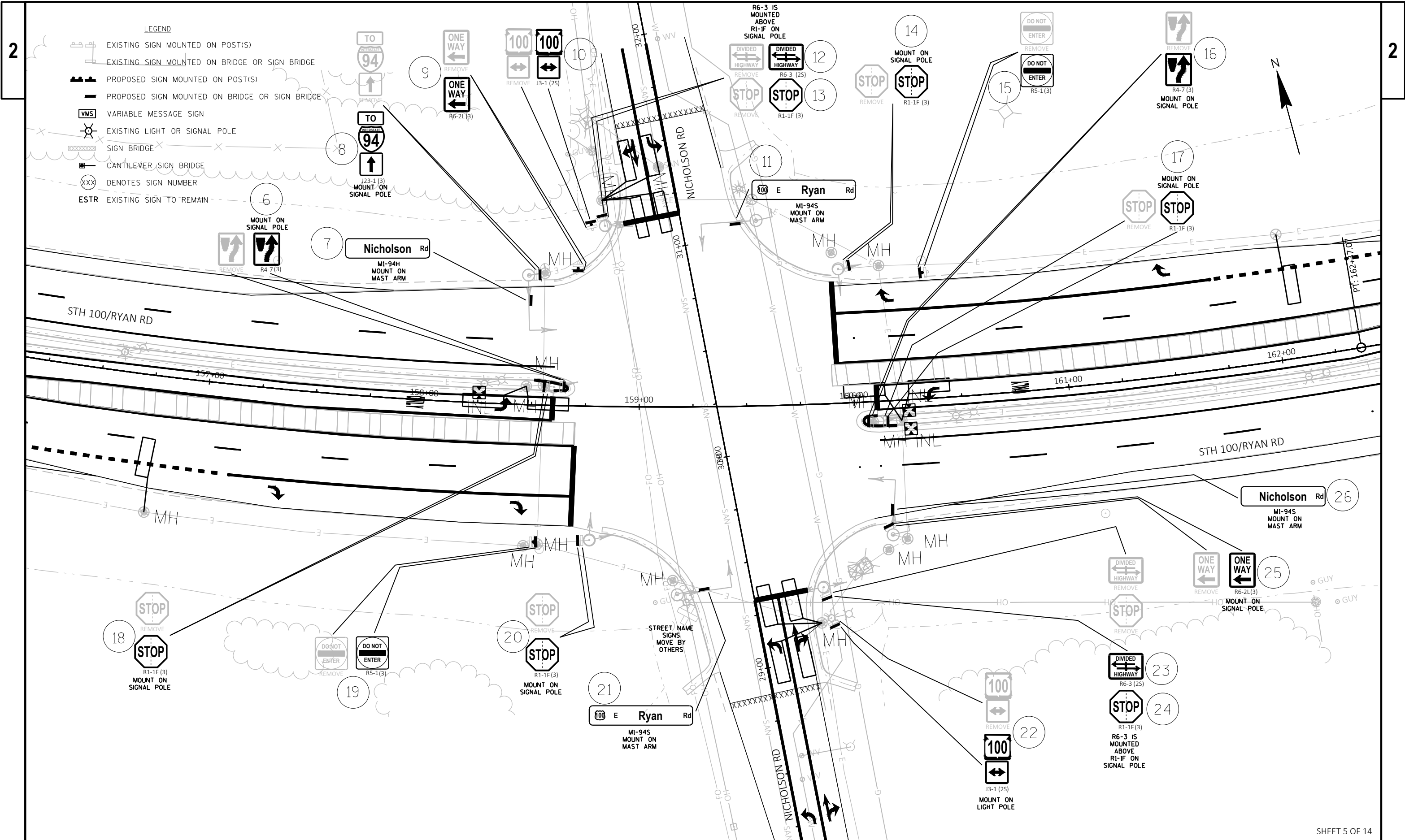
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- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DENOTES SIGN NUMBER
- ESTR** EXISTING SIGN TO REMAIN



LEGEND

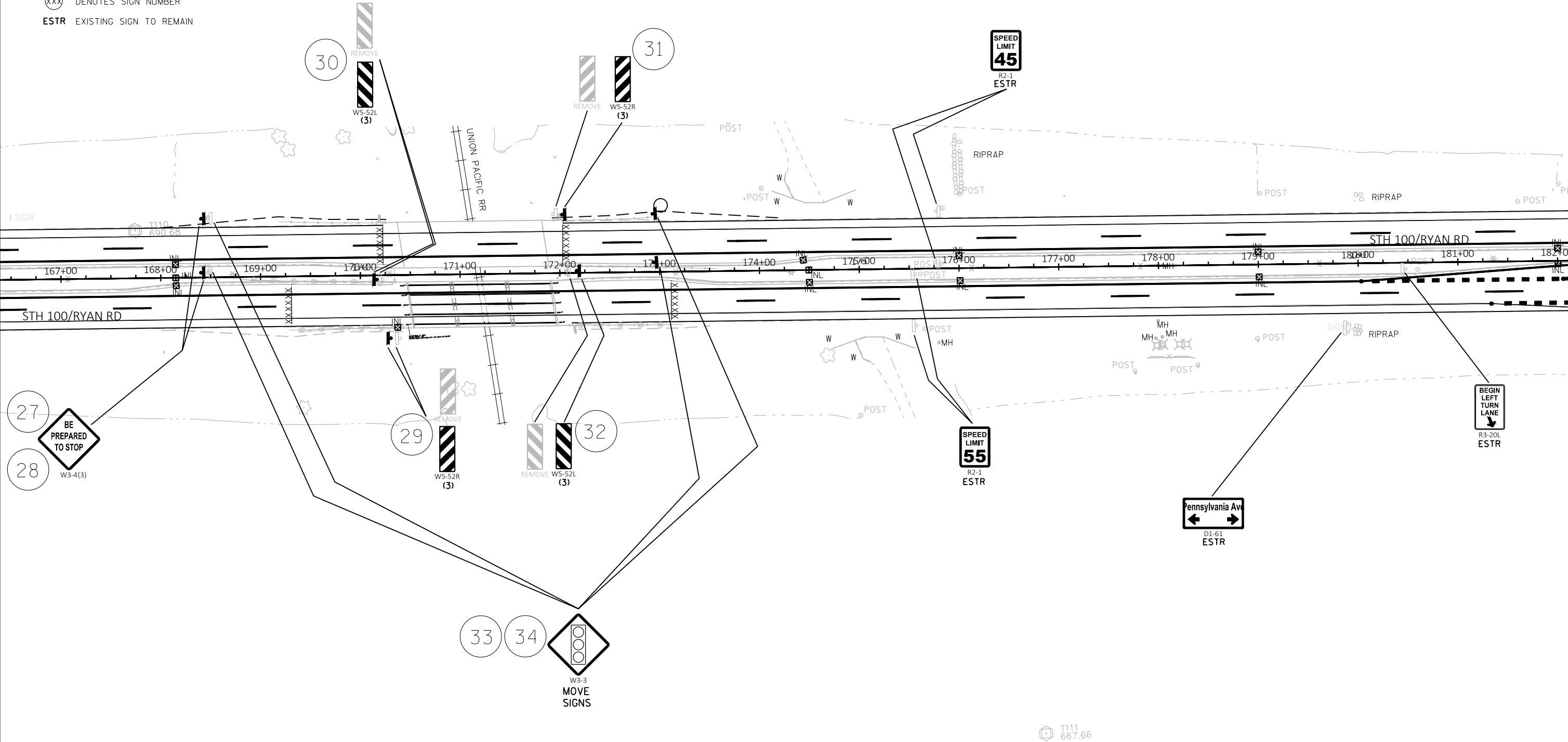
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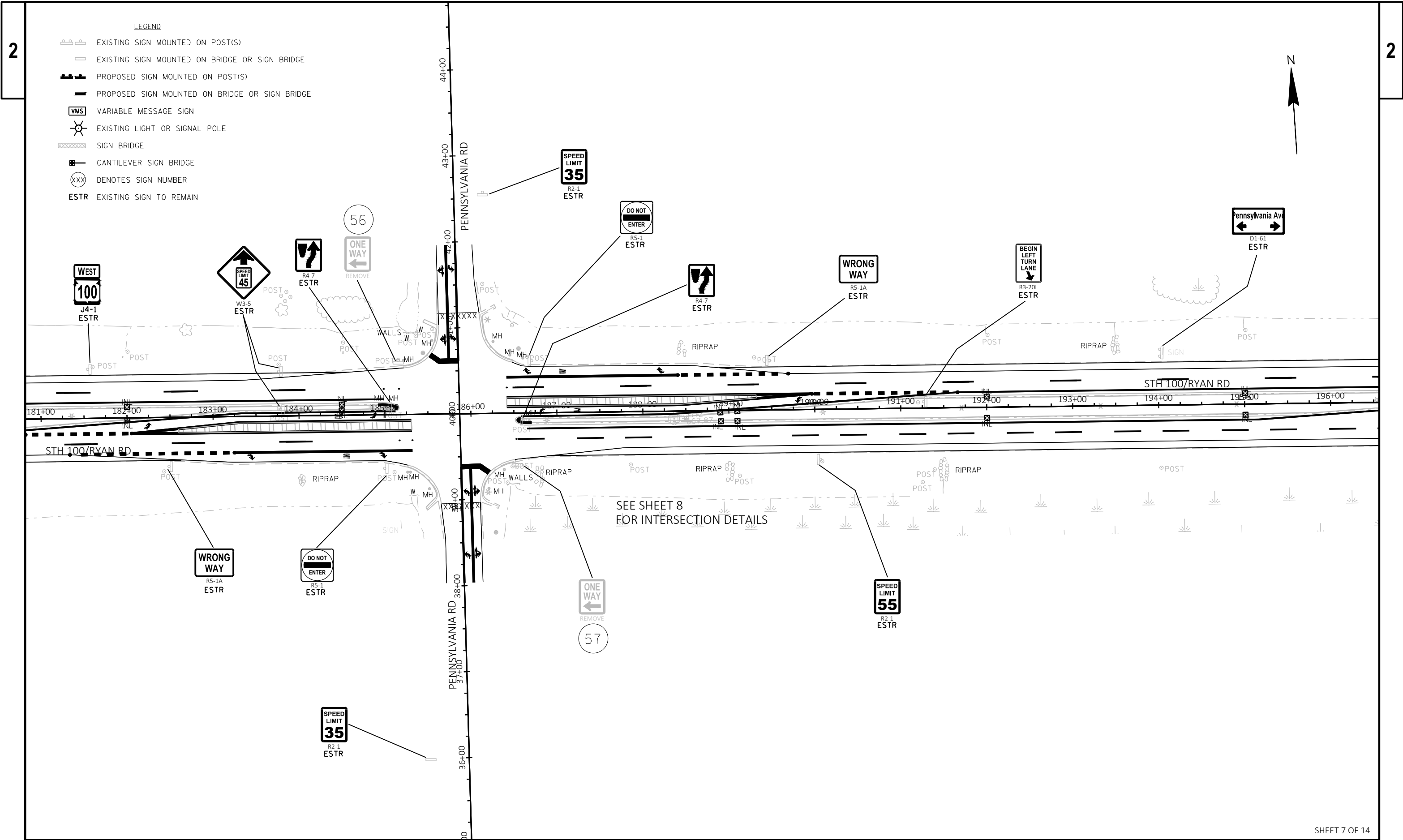


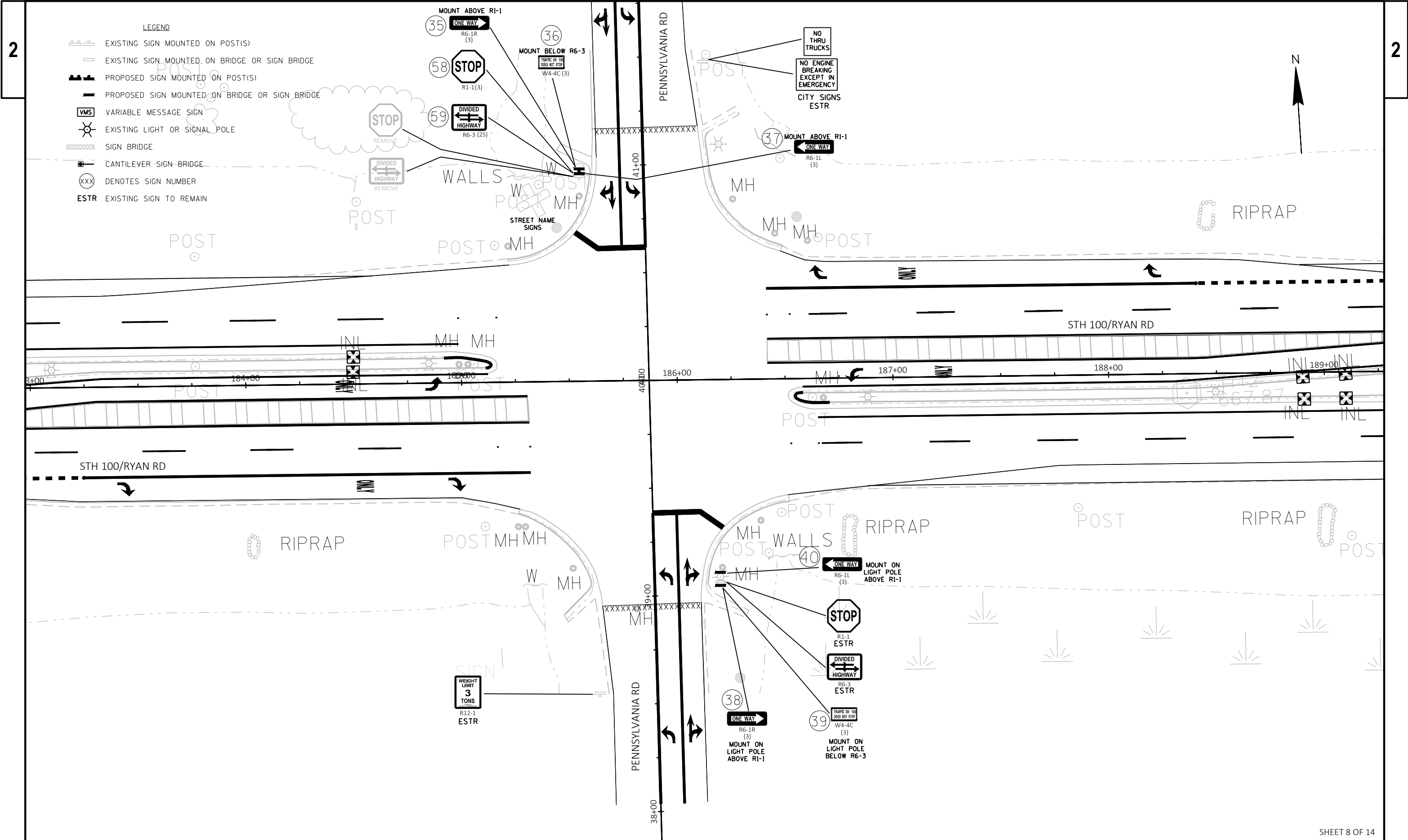


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- PROPOSED SIGN MOUNTED ON POST(S)
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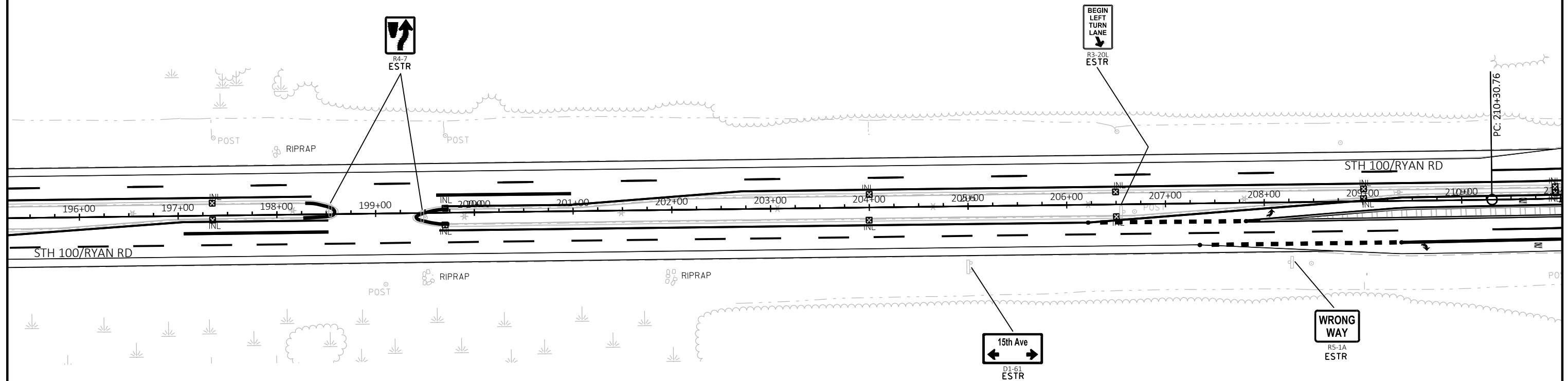


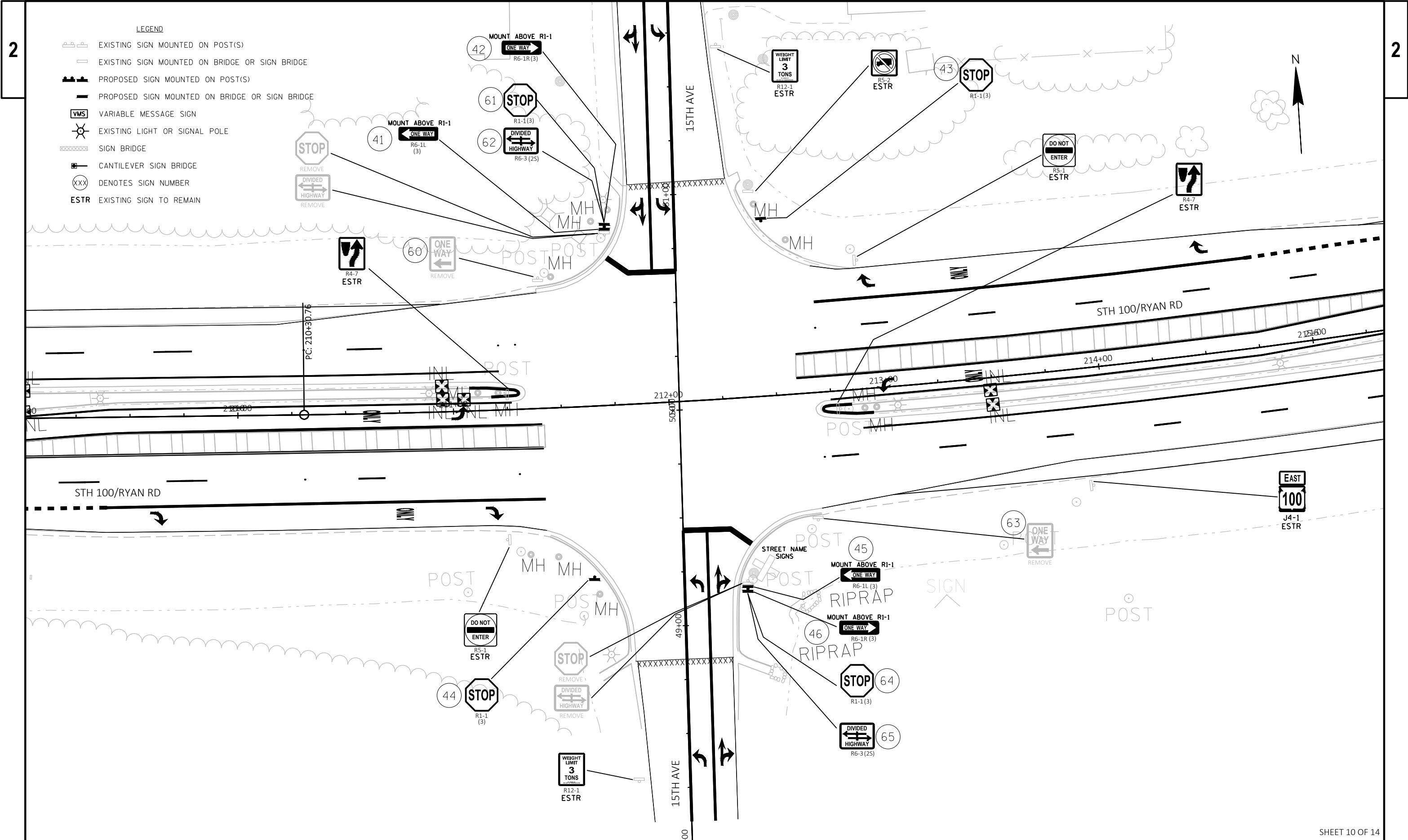




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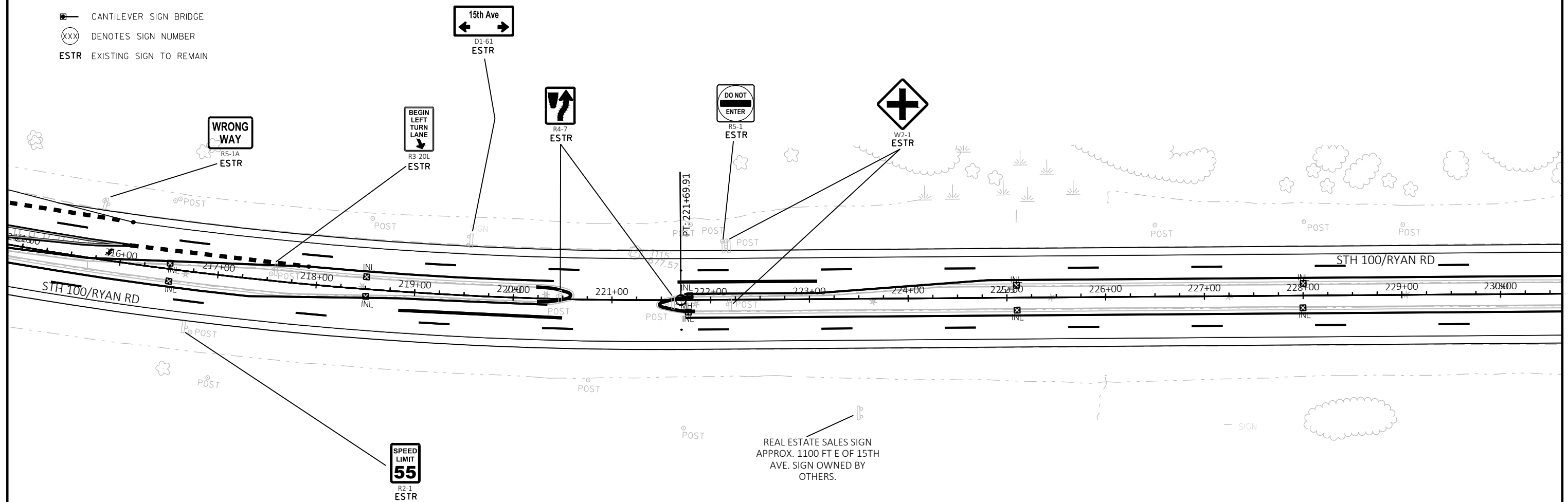
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- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DENOTES SIGN NUMBER
- EXISTING SIGN TO REMAIN





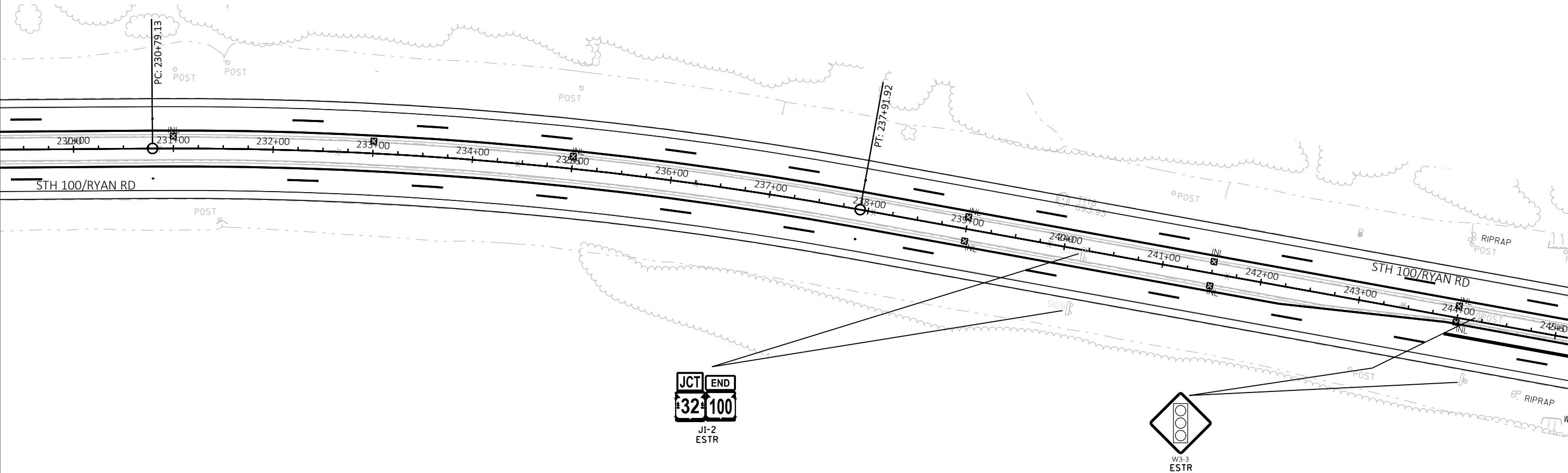
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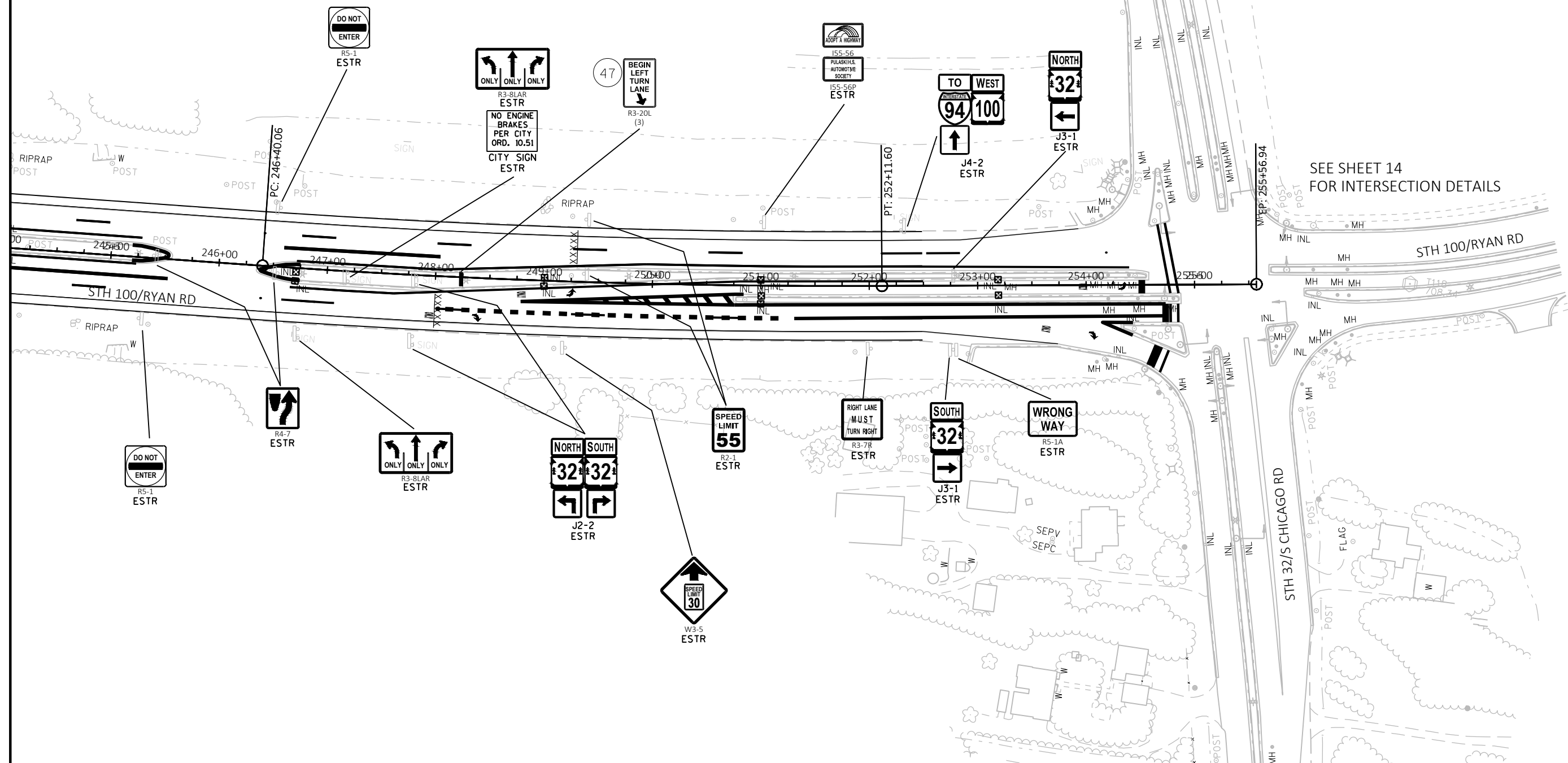
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- VARIABLE MESSAGE SIGN
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- SIGN BRIDGE
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LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
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PROPOSED SIGN MOUNTED ON POST(S)
PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
VMS VARIABLE MESSAGE SIGN
EXISTING LIGHT OR SIGNAL POLE
SIGN BRIDGE
CANTILEVER SIGN BRIDGE
XXX DENOTES SIGN NUMBER
ESTR EXISTING SIGN TO REMAIN



SEE SHEET 14
FOR INTERSECTION DETAILS

PROJECT NO: 2040-03-75

HWY: STH 100

COUNTY: MILWAUKEE

PERMANENT SIGNING PLAN

SHEET

E

FILE NAME: N:\PDS\C3D\CAD\20400305\SIGN\023201_PS_20.DWG
LAYOUT NAME: 023213_PS

PLOT DATE: 9/14/2021 4:12 PM

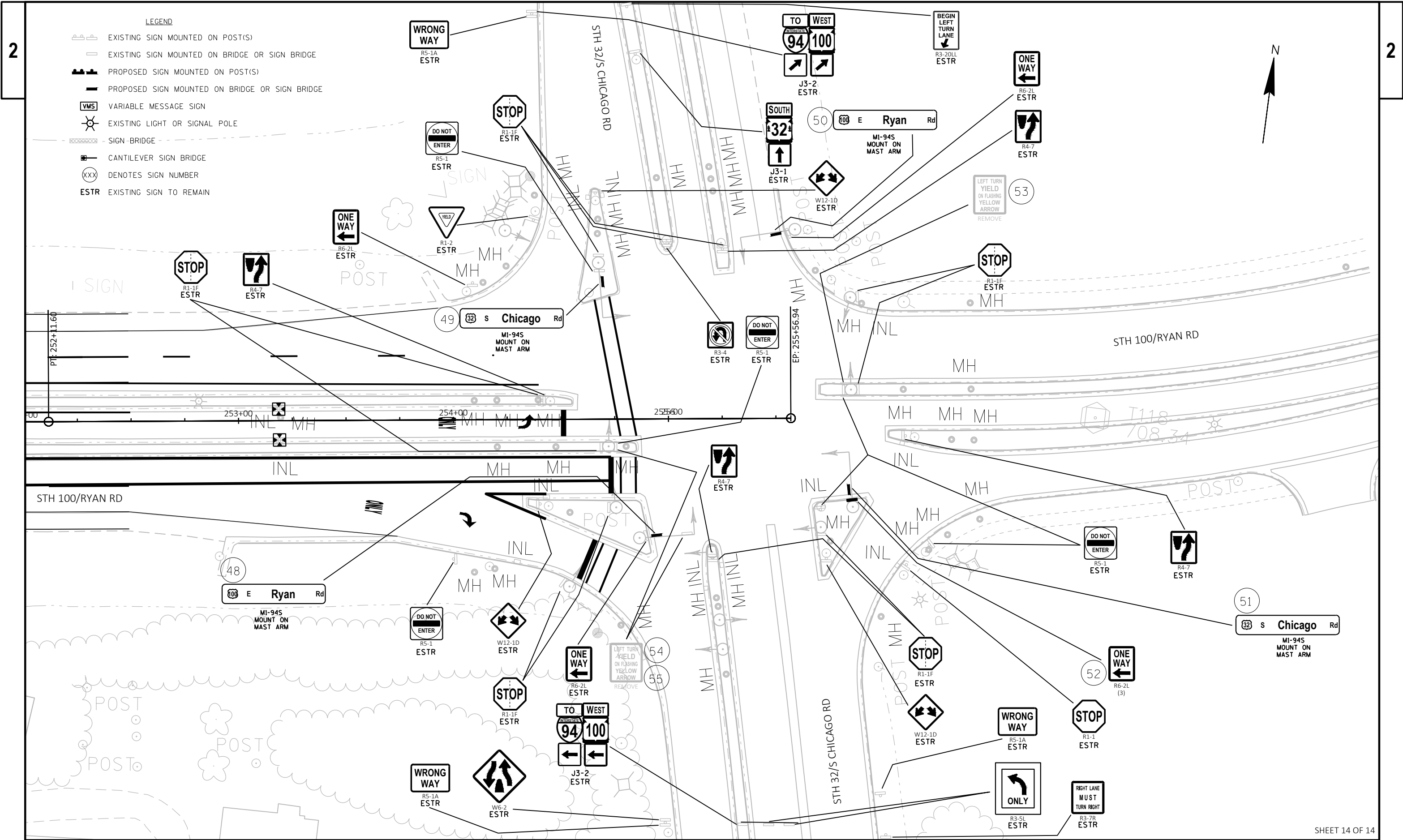
PLOT BY: ASHENFELTER, DANIEL

PLOT NAME:

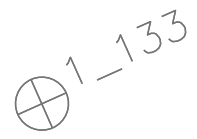
PLOT SCALE: 1 IN:100 FT

SHEET 13 OF 14

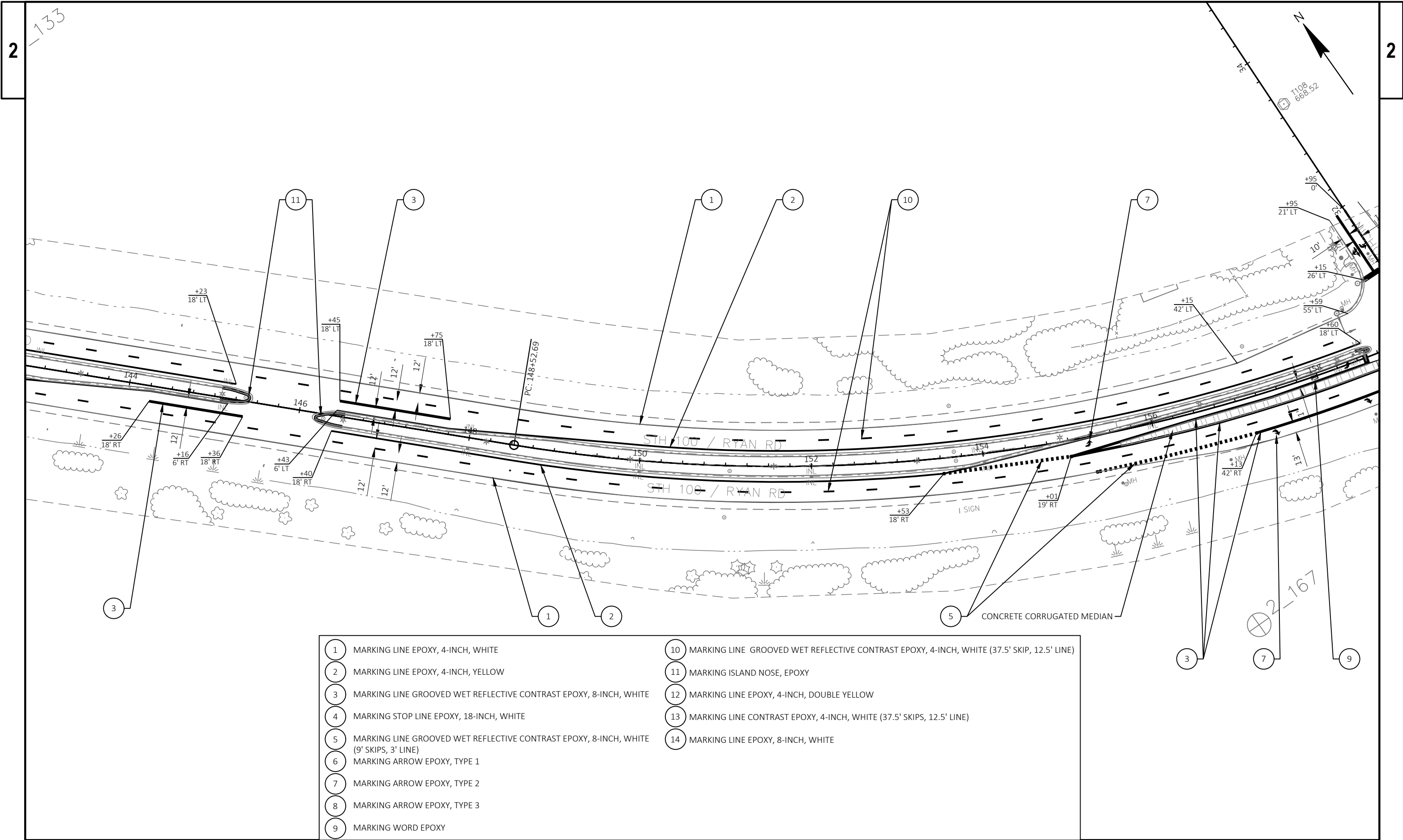
WISDOT/CADDs SHEET 42

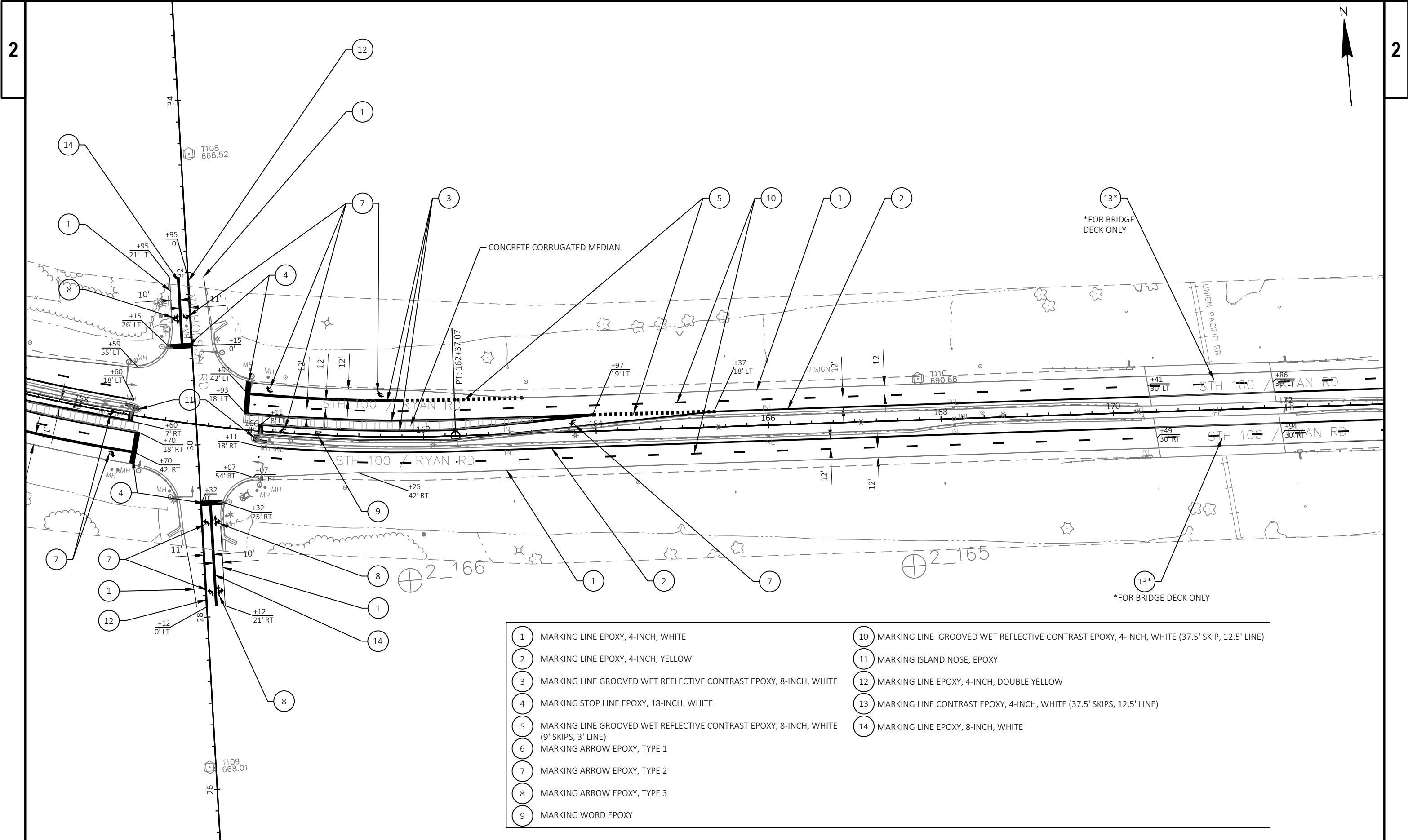


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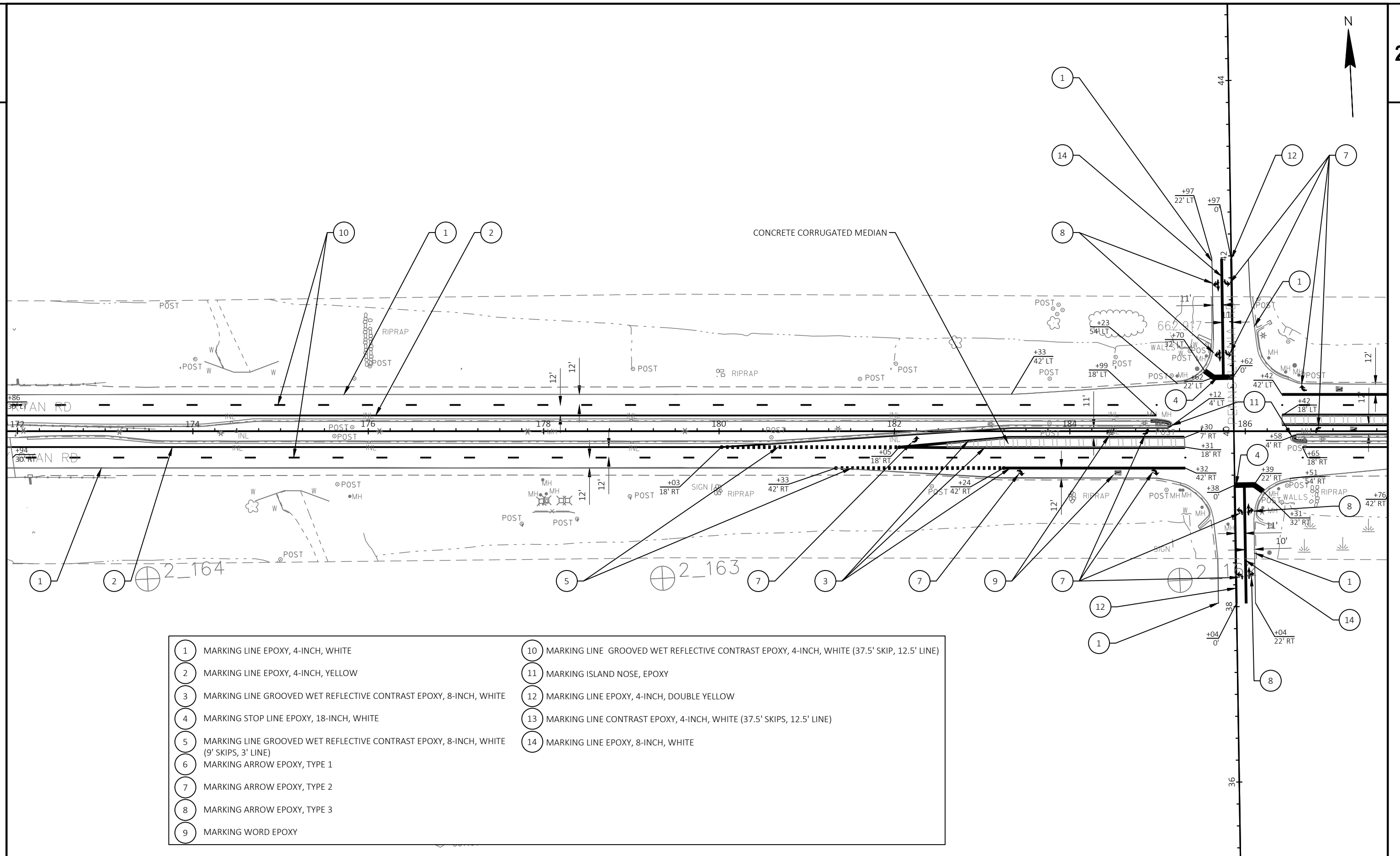


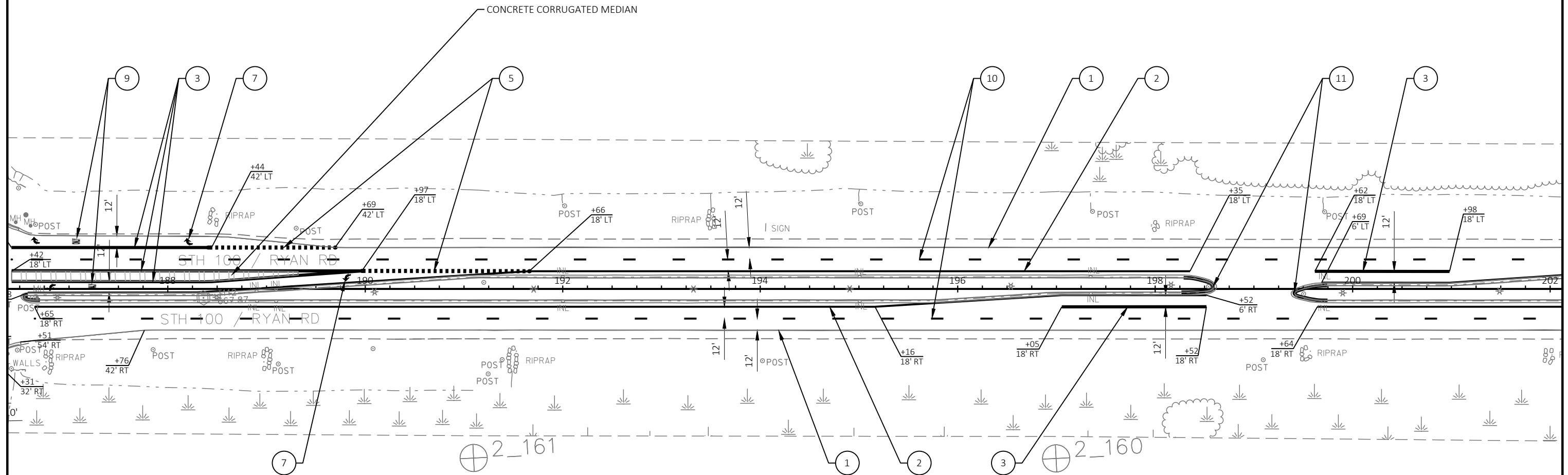
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2	MARKING LINE EPOXY, 4-INCH, YELLOW	11	MARKING ISLAND NOSE, EPOXY
3	MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY, 8-INCH, WHITE	12	MARKING LINE EPOXY, 4-INCH, DOUBLE YELLOW
4	MARKING STOP LINE EPOXY, 18-INCH, WHITE	13	MARKING LINE CONTRAST EPOXY, 4-INCH, WHITE (37.5' SKIPS, 12.5' LINE)
5	MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY, 8-INCH, WHITE (9' SKIPS, 3' LINE)	14	MARKING LINE EPOXY, 8-INCH, WHITE
6	MARKING ARROW EPOXY, TYPE 1		
7	MARKING ARROW EPOXY, TYPE 2		
8	MARKING ARROW EPOXY, TYPE 3		
9	MARKING WORD EPOXY		





- | | | | |
|---|---|----|--|
| 1 | MARKING LINE EPOXY, 4-INCH, WHITE | 10 | MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY, 4-INCH, WHITE (37.5' SKIP, 12.5' LINE) |
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| 7 | MARKING ARROW EPOXY, TYPE 2 | | |
| 8 | MARKING ARROW EPOXY, TYPE 3 | | |
| 9 | MARKING WORD EPOXY | | |

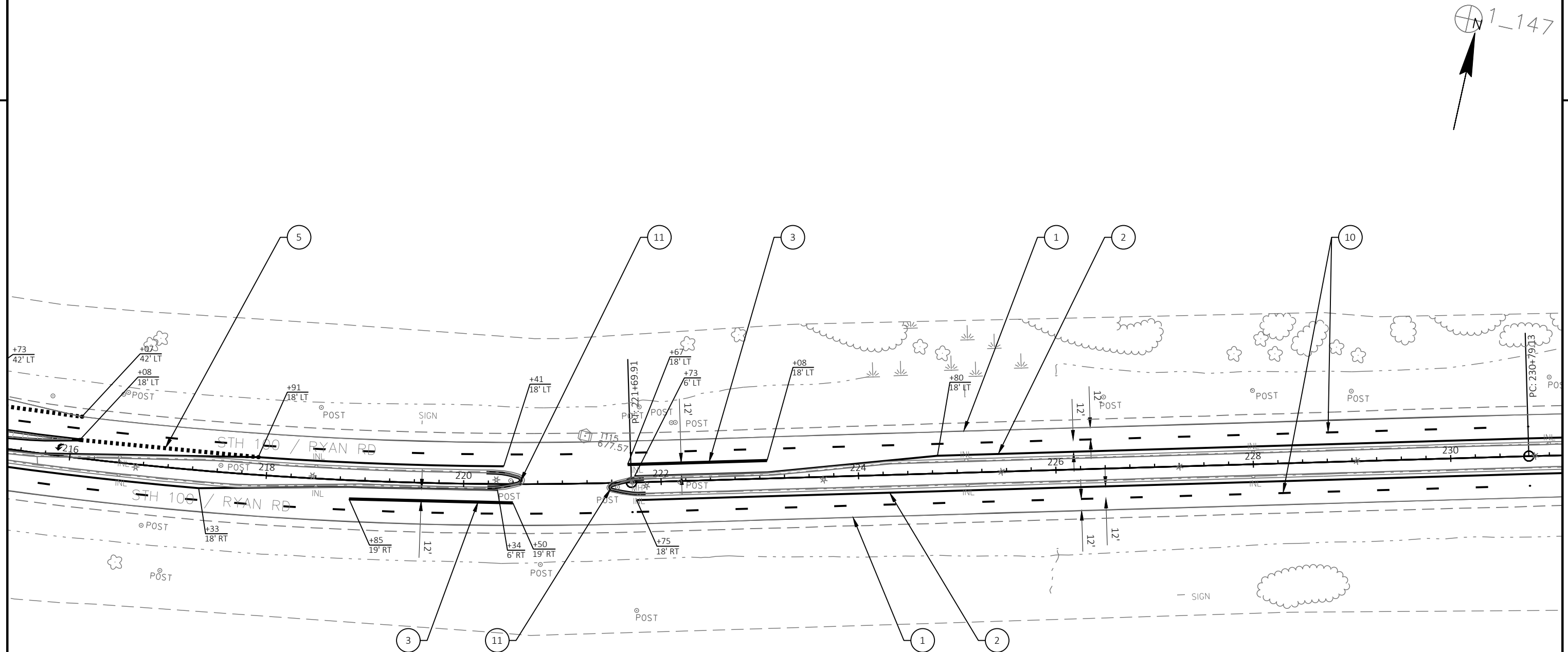




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|---|---|----|--|
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| 8 | MARKING ARROW EPOXY, TYPE 3 | | |
| 9 | MARKING WORD EPOXY | | |

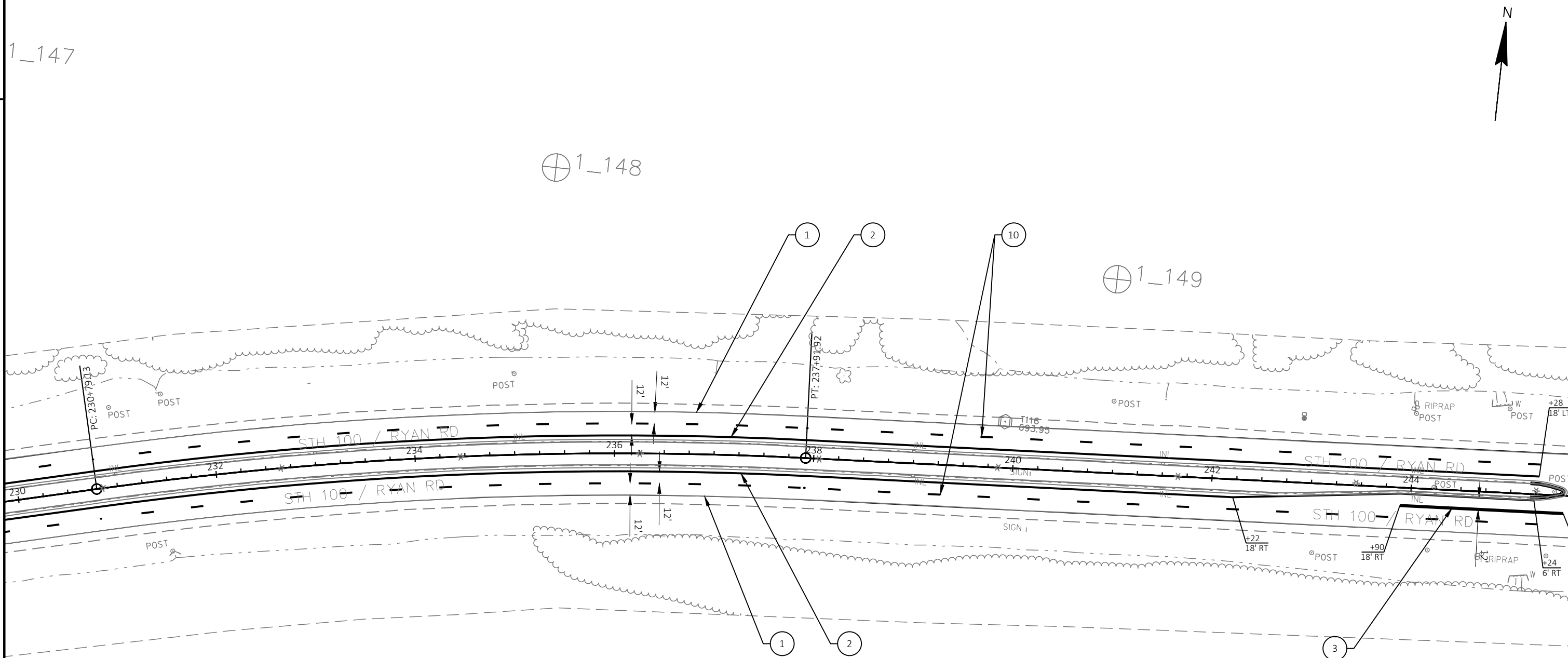


PROJECT NO:	2040-03-75	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET	E
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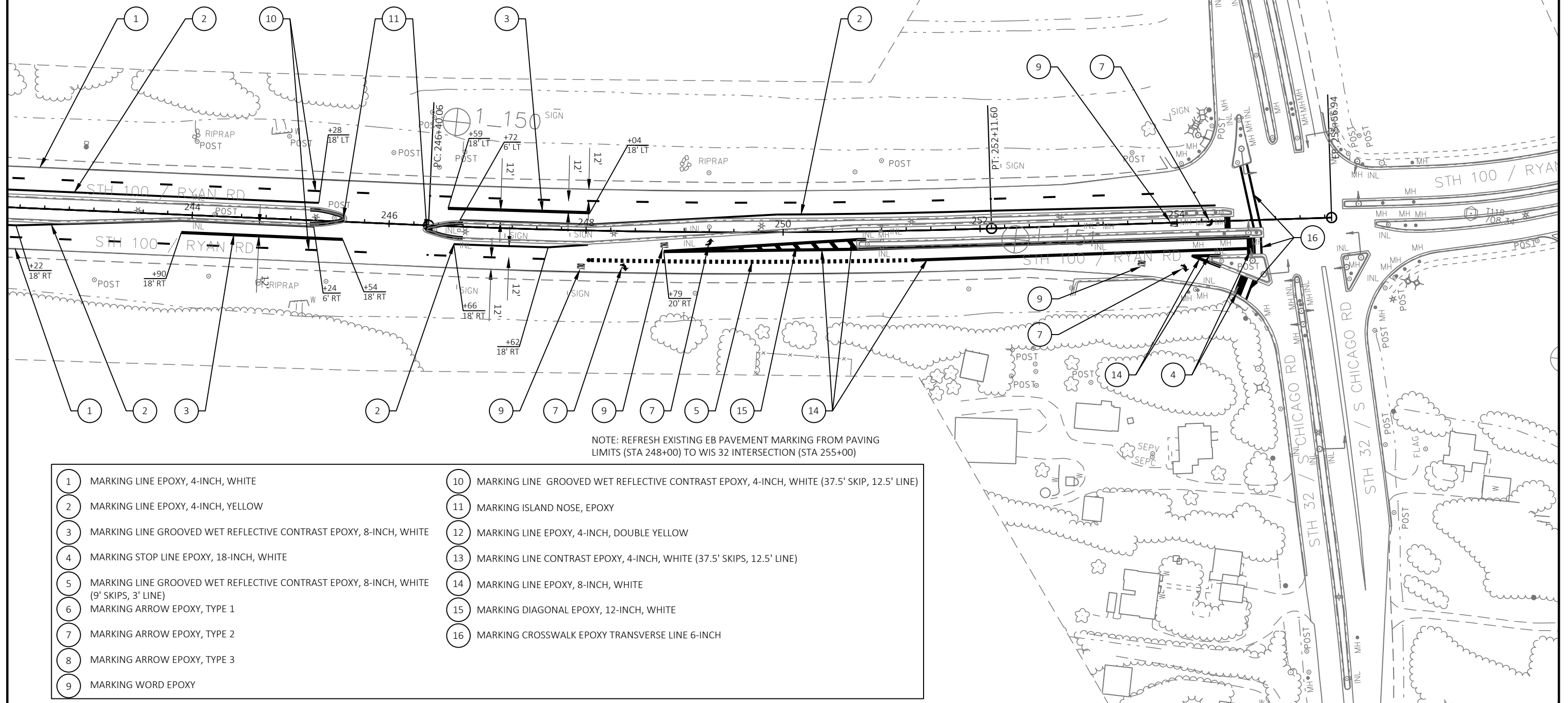
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|---|---|----|--|
| 1 | MARKING LINE EPOXY, 4-INCH, WHITE | 10 | MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY, 4-INCH, WHITE (37.5' SKIP, 12.5' LINE) |
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| 8 | MARKING ARROW EPOXY, TYPE 3 | | |
| 9 | MARKING WORD EPOXY | | |

2-155



- | | | | |
|---|---|----|--|
| 1 | MARKING LINE EPOXY, 4-INCH, WHITE | 10 | MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY, 4-INCH, WHITE (37.5' SKIP, 12.5' LINE) |
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| 8 | MARKING ARROW EPOXY, TYPE 3 | | |
| 9 | MARKING WORD EPOXY | | |

NOTE: REFRESH EXISTING WB PAVEMENT MARKING FROM PAVING LIMITS (STA 249+30) TO WIS 32 INTERSECTION (STA 255+00)



PROJECT NO: 2040-03-75

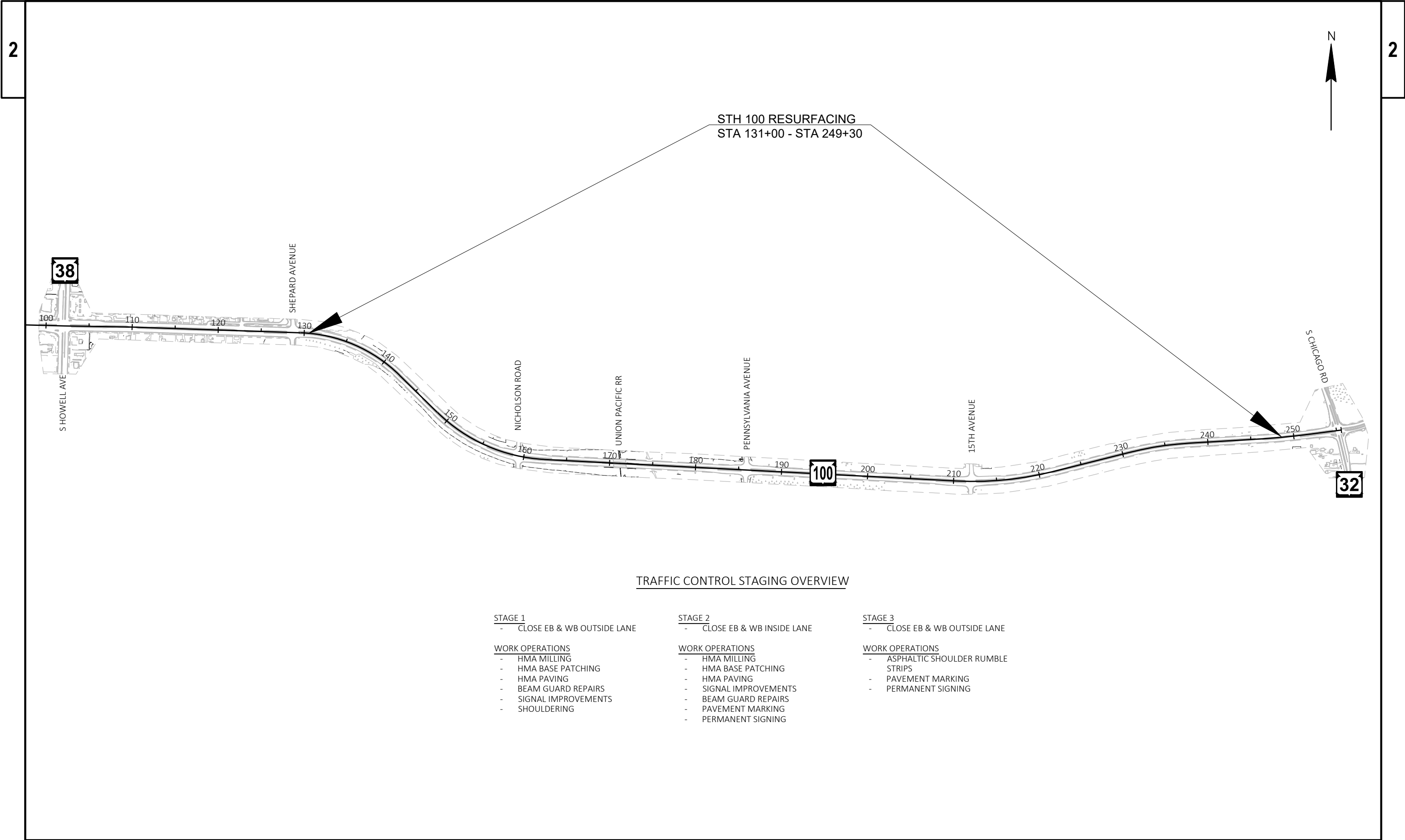
HWY: STH 100

COUNTY: MILWAUKEE

PAVEMENT MARKING

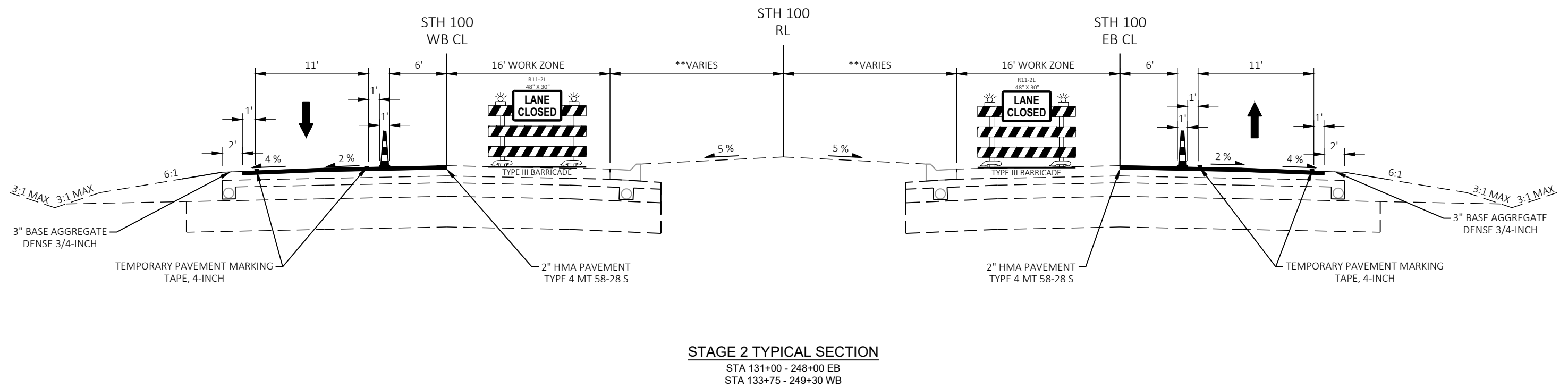
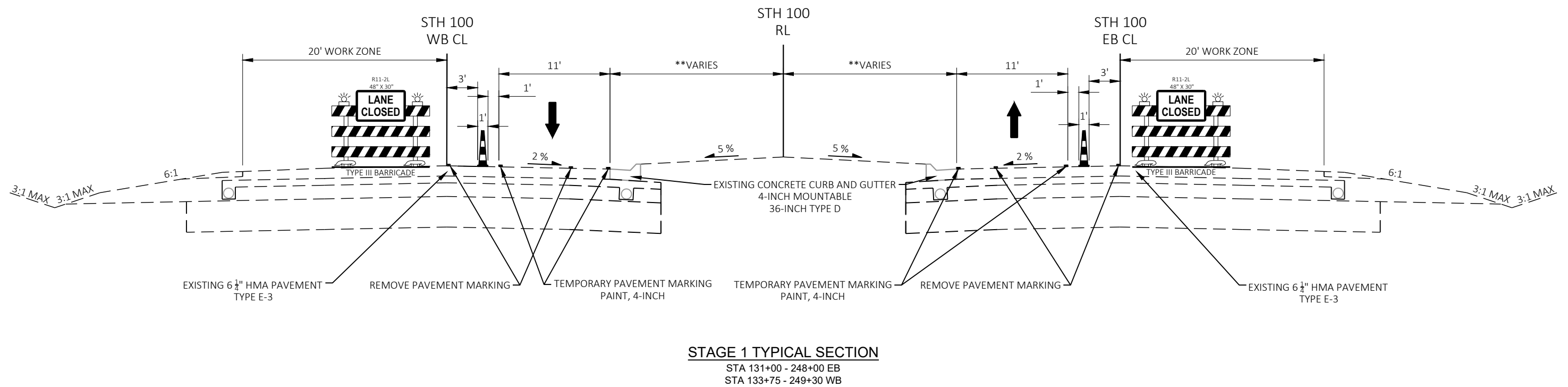
SHEET

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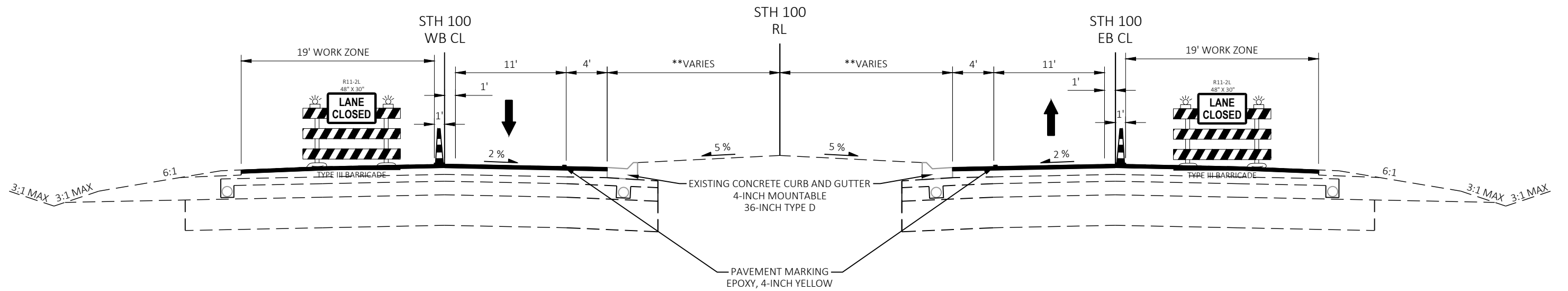


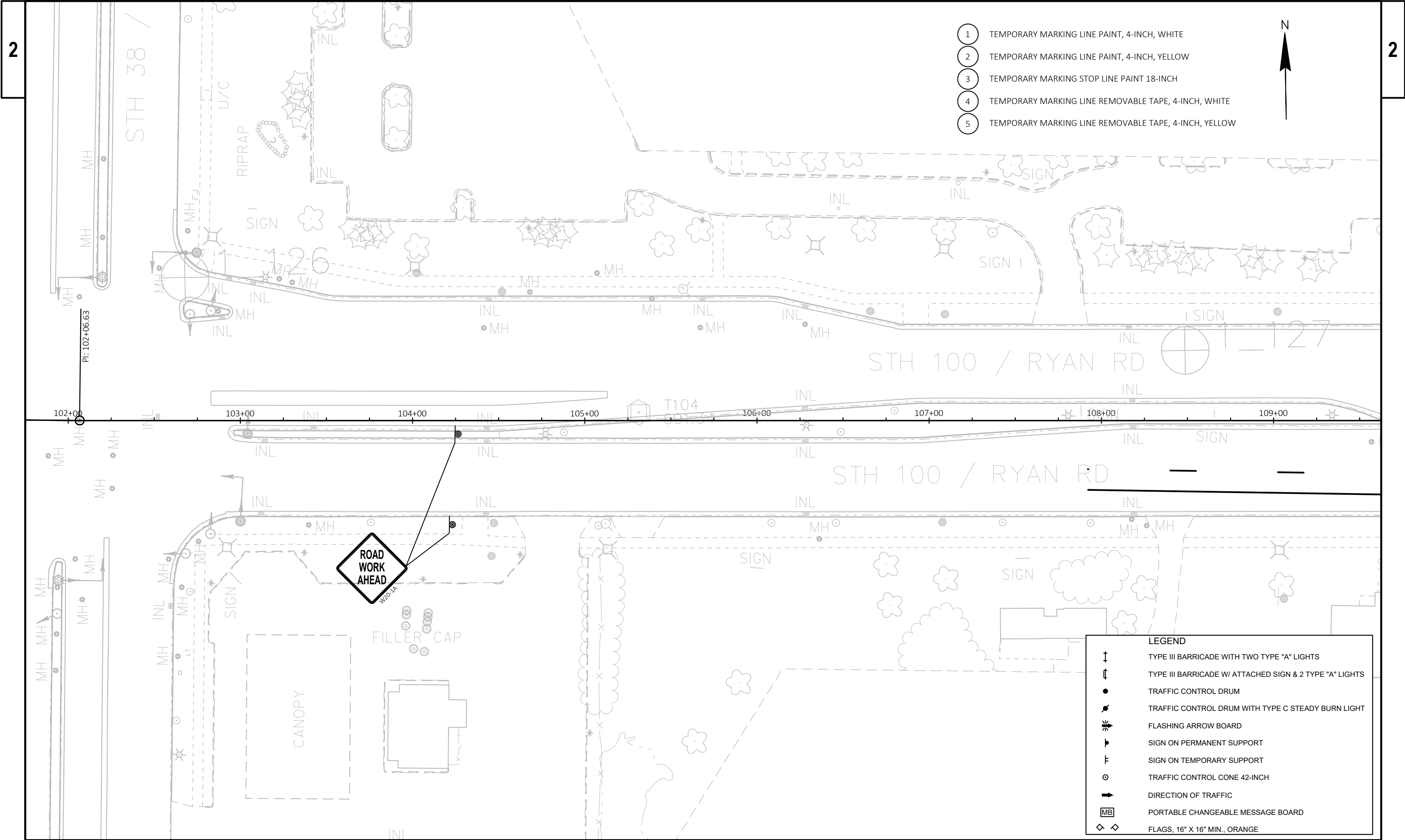
TRAFFIC CONTROL STAGING OVERVIEW

<u>STAGE 1</u> - CLOSE EB & WB OUTSIDE LANE	<u>STAGE 2</u> - CLOSE EB & WB INSIDE LANE	<u>STAGE 3</u> - CLOSE EB & WB OUTSIDE LANE
<u>WORK OPERATIONS</u> - HMA MILLING - HMA BASE PATCHING - HMA PAVING - BEAM GUARD REPAIRS - SIGNAL IMPROVEMENTS - SHOULDERING	<u>WORK OPERATIONS</u> - HMA MILLING - HMA BASE PATCHING - HMA PAVING - SIGNAL IMPROVEMENTS - BEAM GUARD REPAIRS - PAVEMENT MARKING - PERMANENT SIGNING	<u>WORK OPERATIONS</u> - ASPHALTIC SHOULDER RUMBLE STRIPS - PAVEMENT MARKING - PERMANENT SIGNING



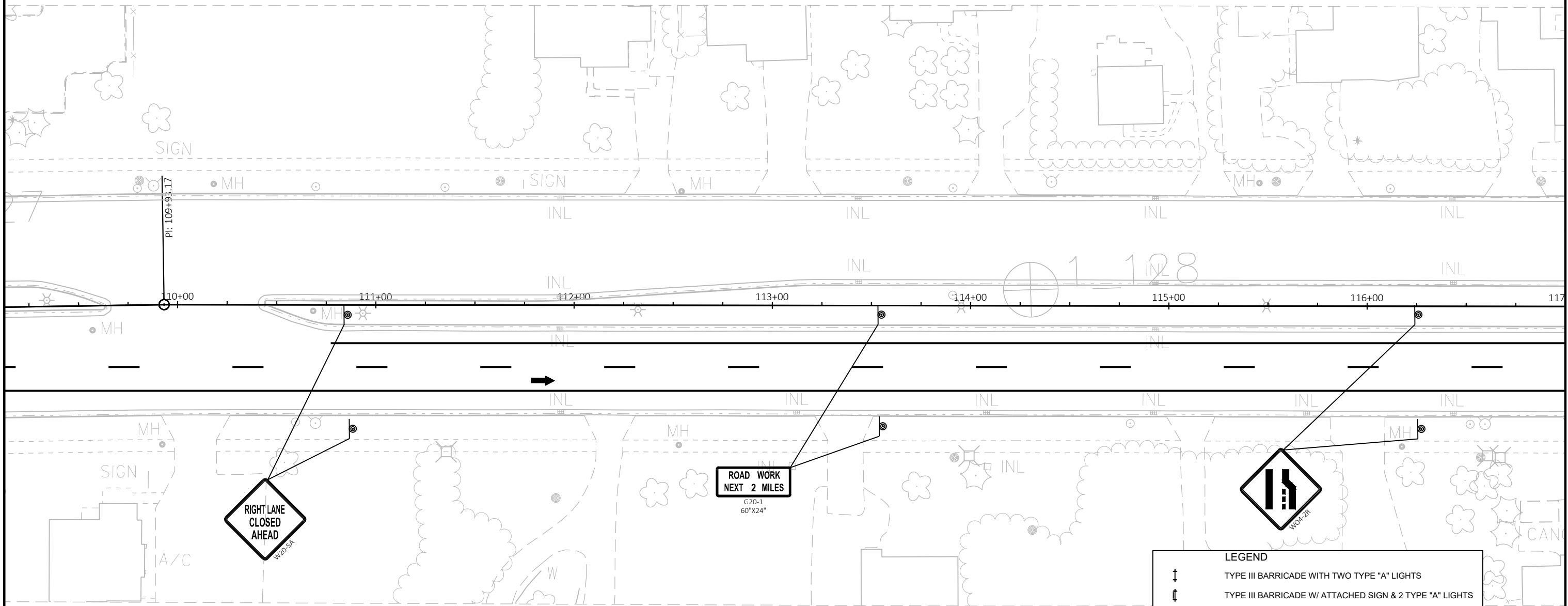
**MEDIAN WIDTH VARIES
STA 128+50 - 131+50: MEDIAN WIDTH VARIES 13'-14'
STA 131+50 - 254+50: MEDIAN WIDTH 14'





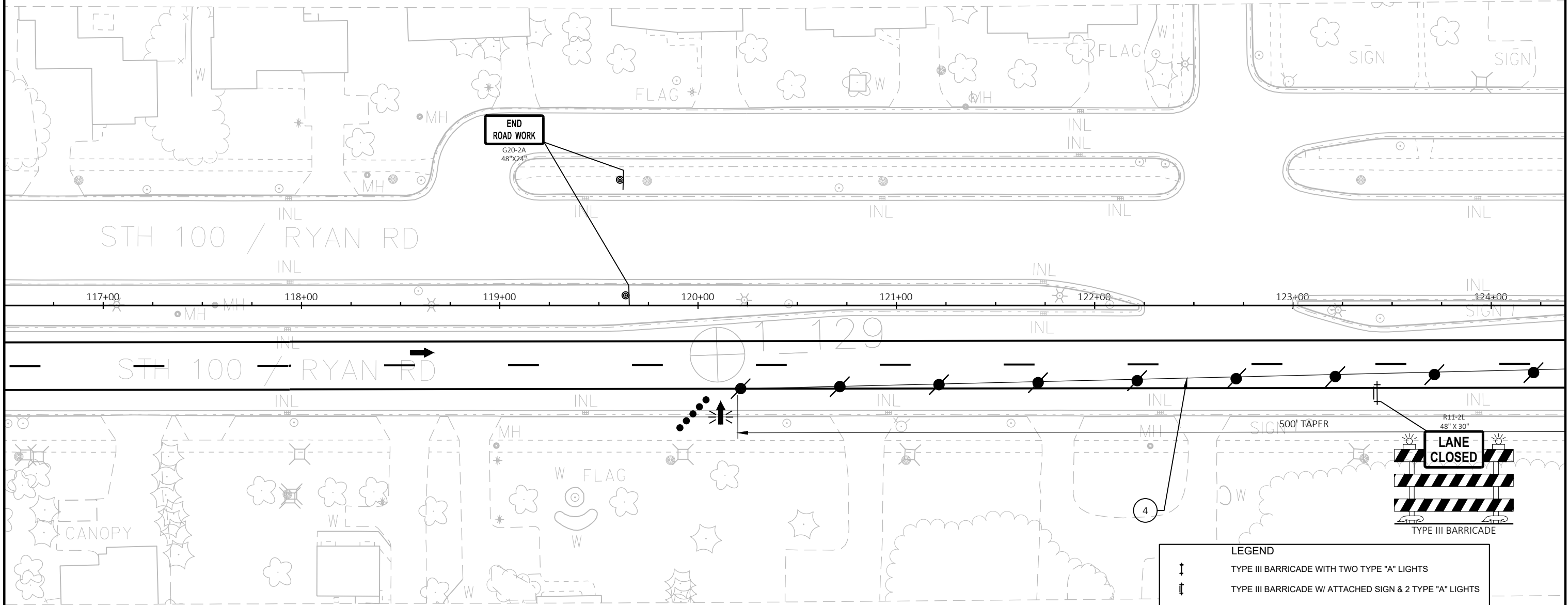


- 1 TEMPORARY MARKING LINE PAINT, 4-INCH, WHITE
- 2 TEMPORARY MARKING LINE PAINT, 4-INCH, YELLOW
- 3 TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, WHITE
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, YELLOW



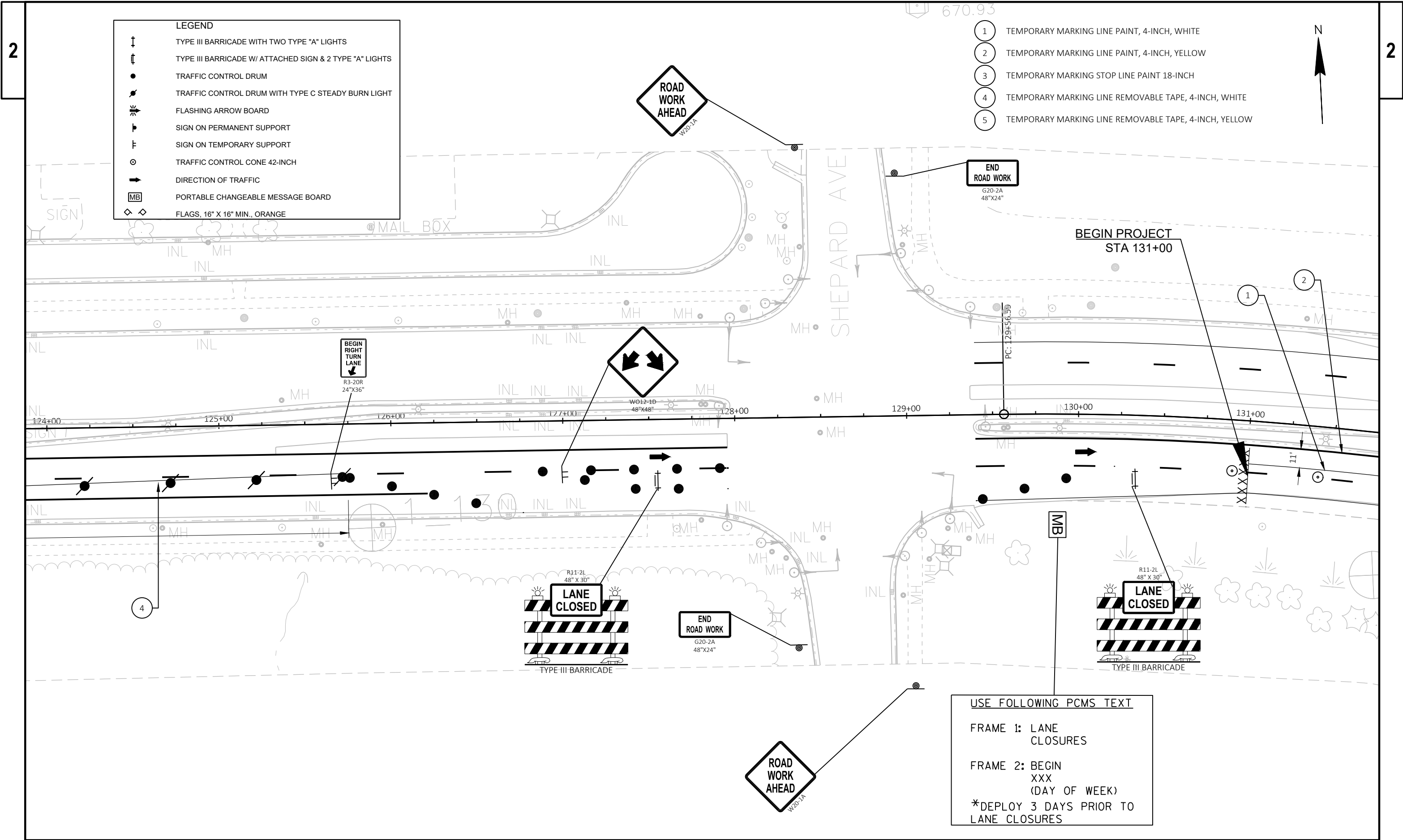
LEGEND	
	TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
	TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL CONE 42-INCH
	DIRECTION OF TRAFFIC
	PORTABLE CHANGEABLE MESSAGE BOARD
	FLAGS, 16" X 16" MIN., ORANGE

- 1 TEMPORARY MARKING LINE PAINT, 4-INCH, WHITE
- 2 TEMPORARY MARKING LINE PAINT, 4-INCH, YELLOW
- 3 TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, WHITE
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, YELLOW

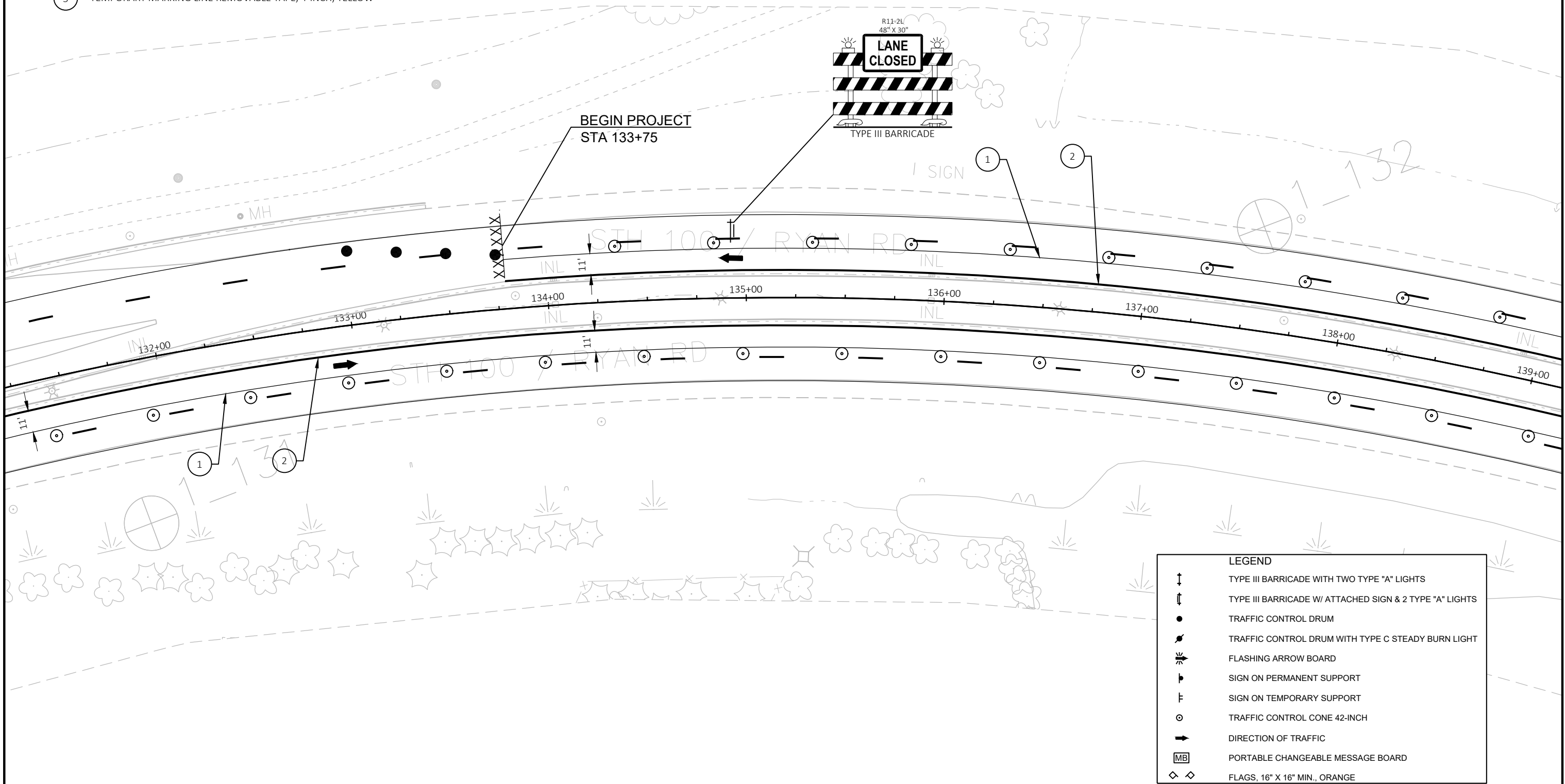


LEGEND

- ↑ TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- ↑ TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- ⚡ FLASHING ARROW BOARD
- ▬ SIGN ON PERMANENT SUPPORT
- ▬ SIGN ON TEMPORARY SUPPORT
- ⊙ TRAFFIC CONTROL CONE 42-INCH
- ➡ DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- ◇ ◇ FLAGS, 16" X 16" MIN., ORANGE



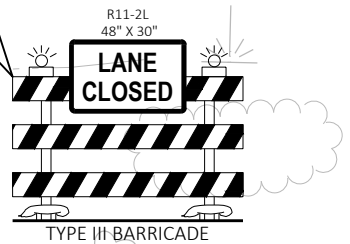
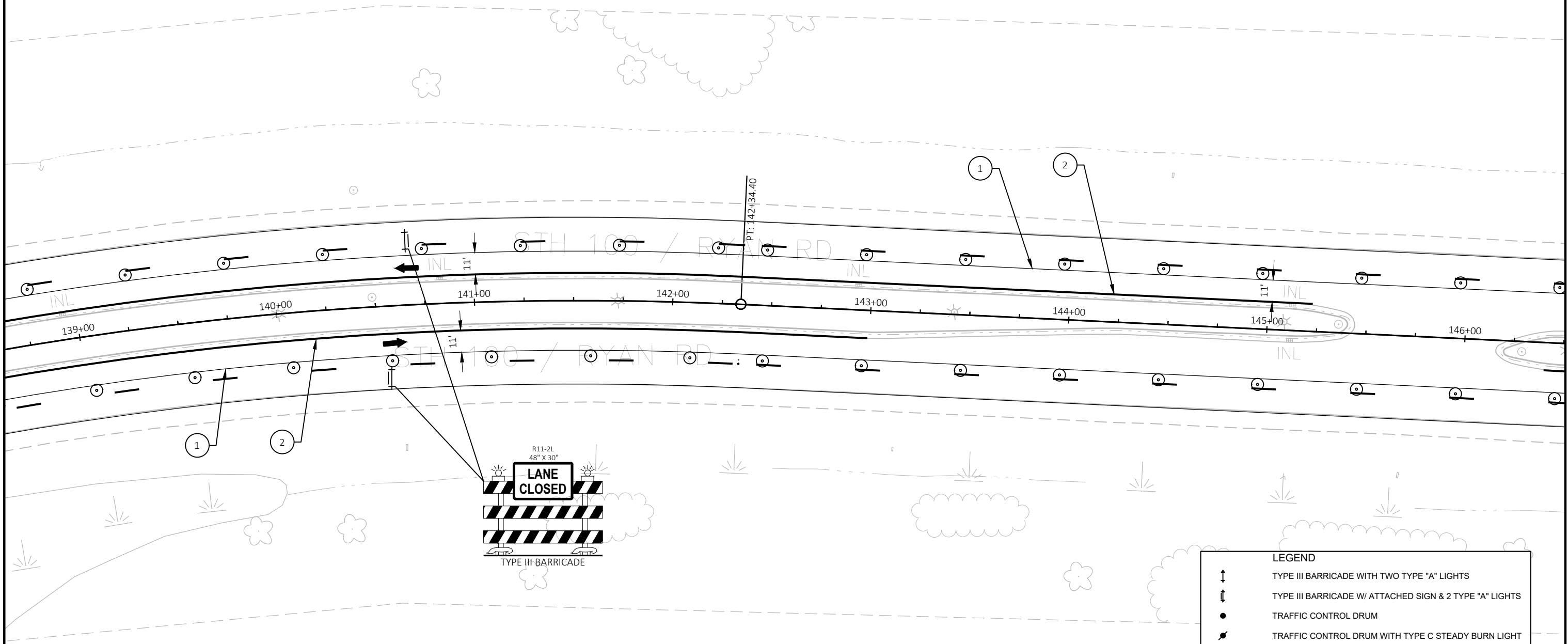
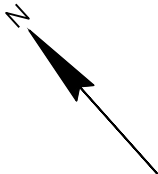
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- 5 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, YELLOW



LEGEND

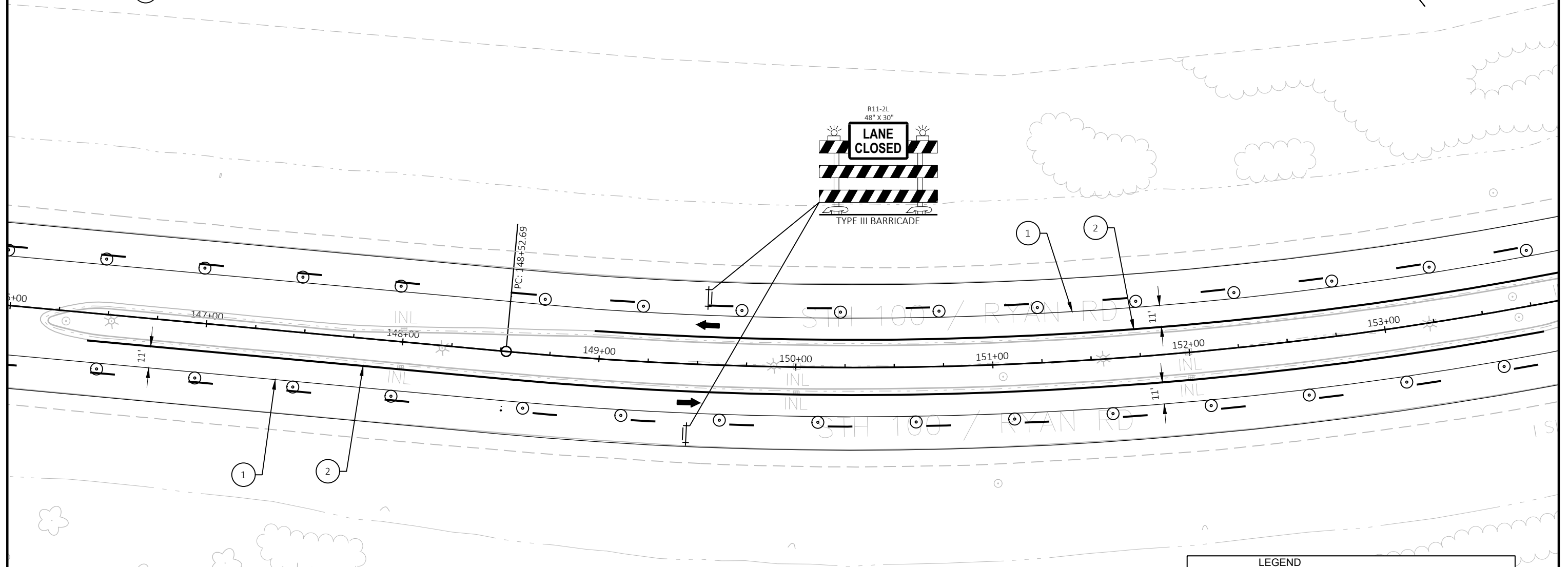
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- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- ➔ FLASHING ARROW BOARD
- ▮ SIGN ON PERMANENT SUPPORT
- ▮ SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONE 42-INCH
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- ◇ ◇ FLAGS, 16" X 16" MIN., ORANGE

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LEGEND	
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	DIRECTION OF TRAFFIC
	PORTABLE CHANGEABLE MESSAGE BOARD
	FLAGS, 16" X 16" MIN., ORANGE

PROJECT NO: 2040-03-75

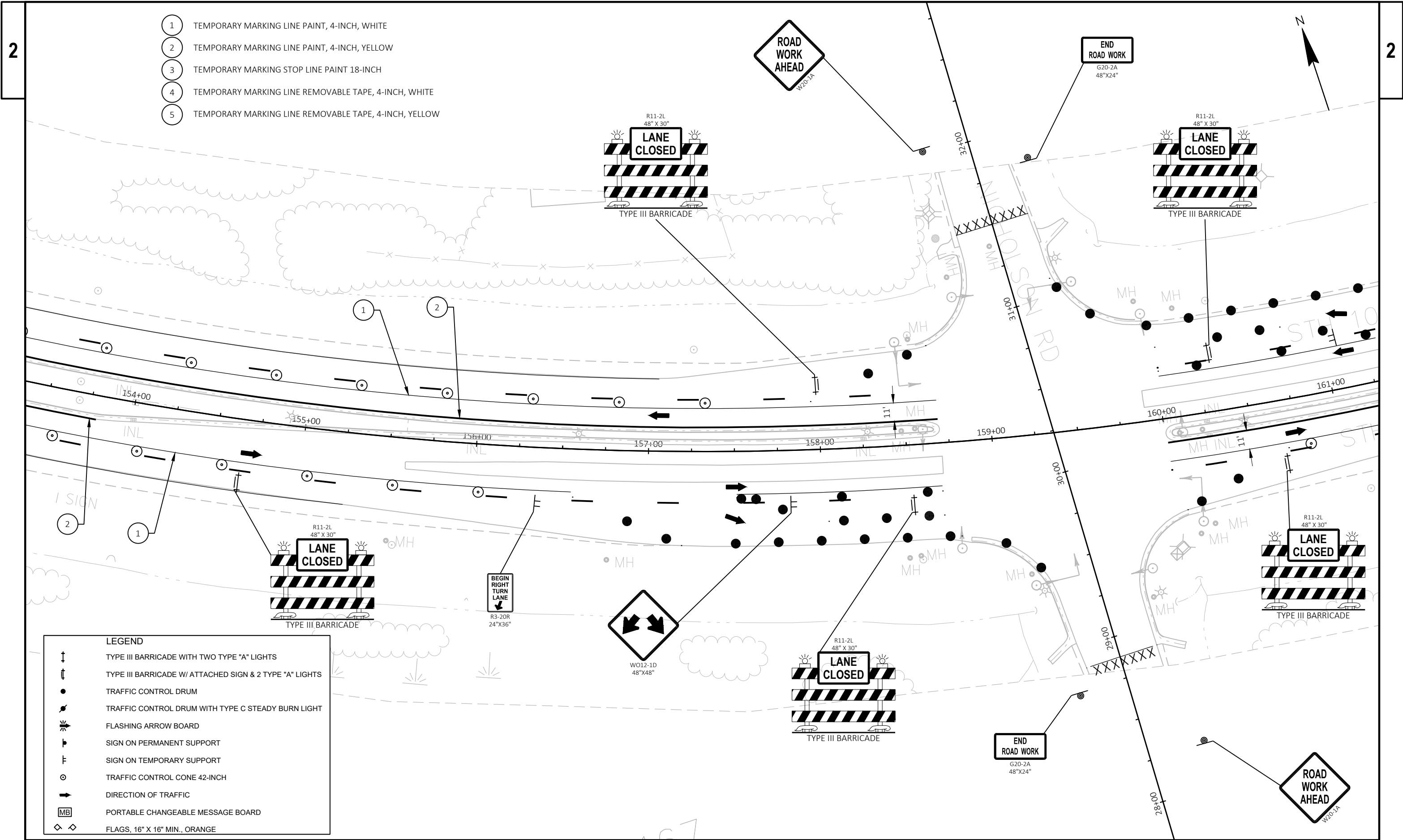
HWY: STH 100

COUNTY: MILWAUKEE

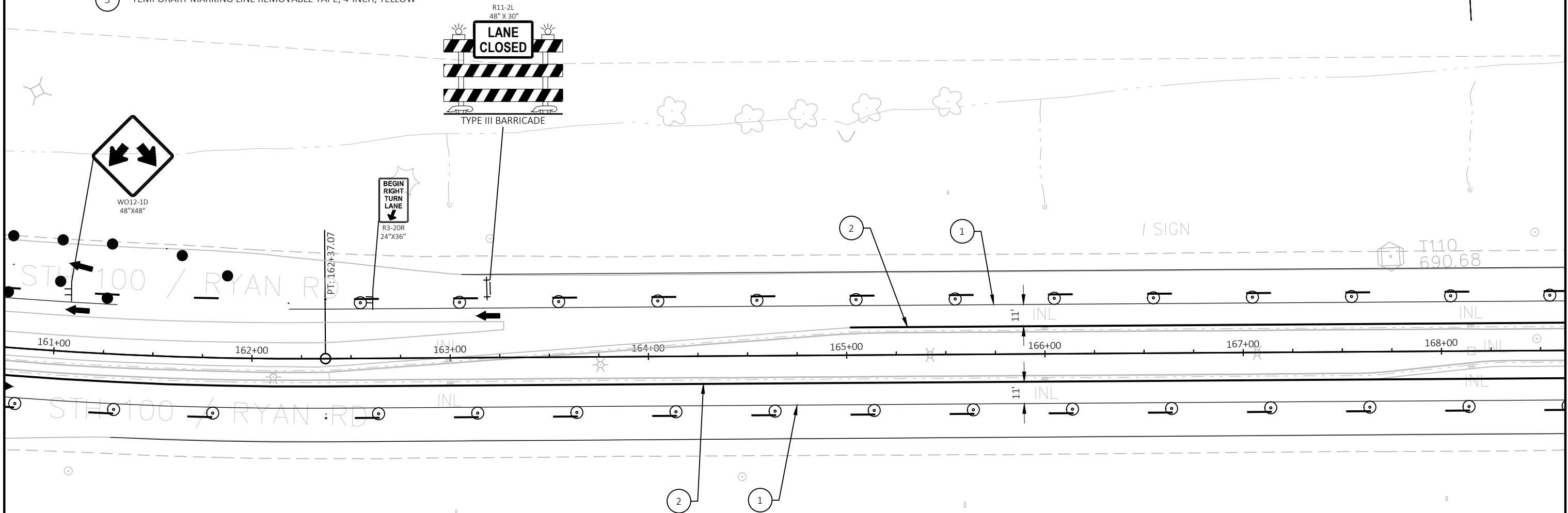
TRAFFIC CONTROL - STAGE 1

SHEET

E



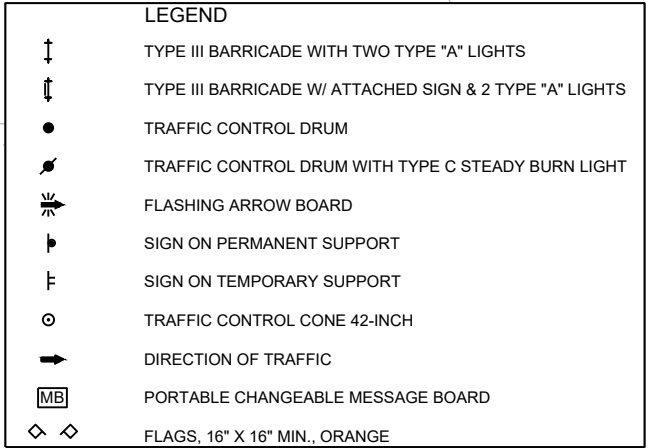
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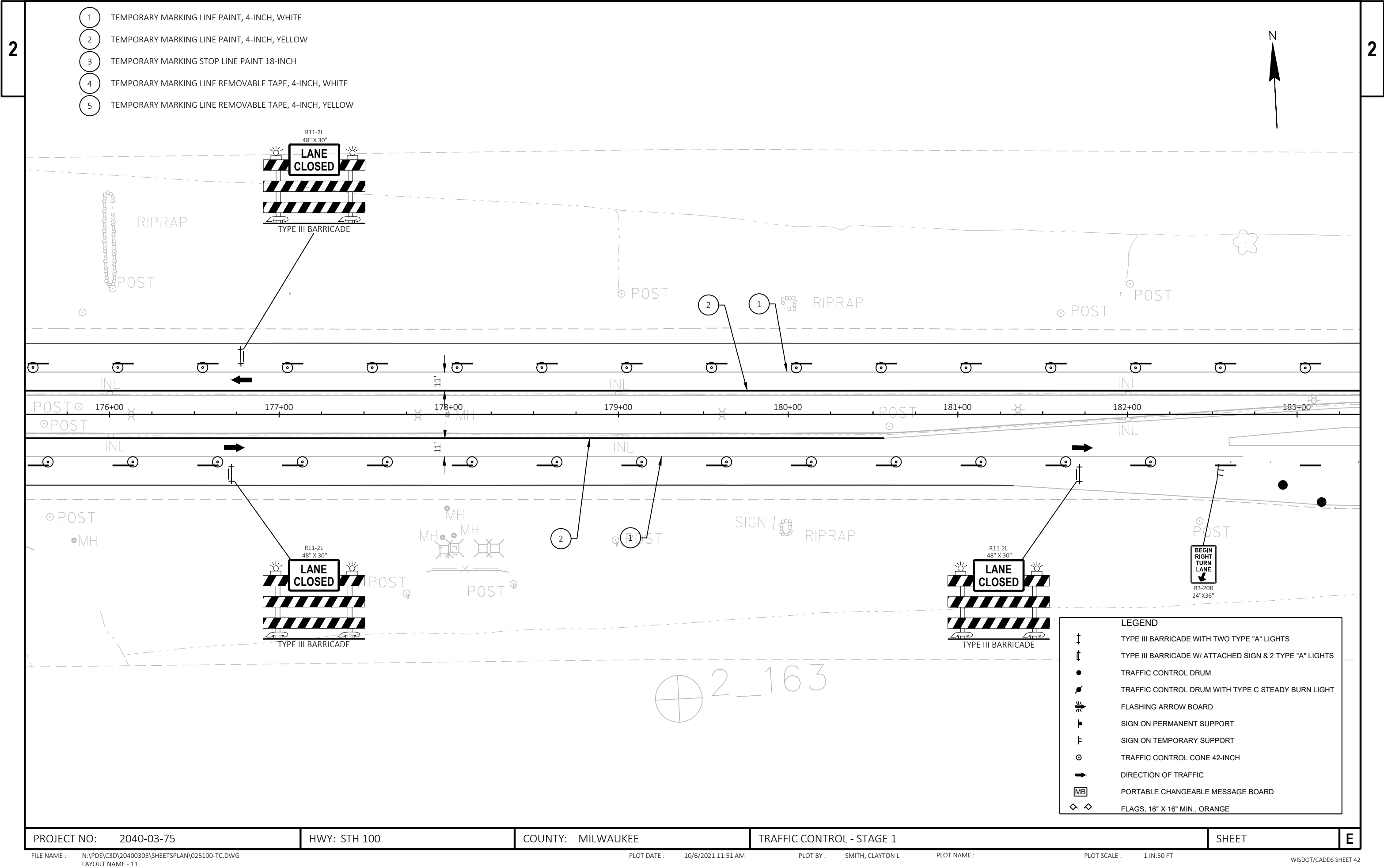


LEGEND

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	TRAFFIC CONTROL DRUM
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	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
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	TRAFFIC CONTROL CONE 42-INCH
	DIRECTION OF TRAFFIC
	PORTABLE CHANGEABLE MESSAGE BOARD
	FLAGS, 16" X 16" MIN., ORANGE

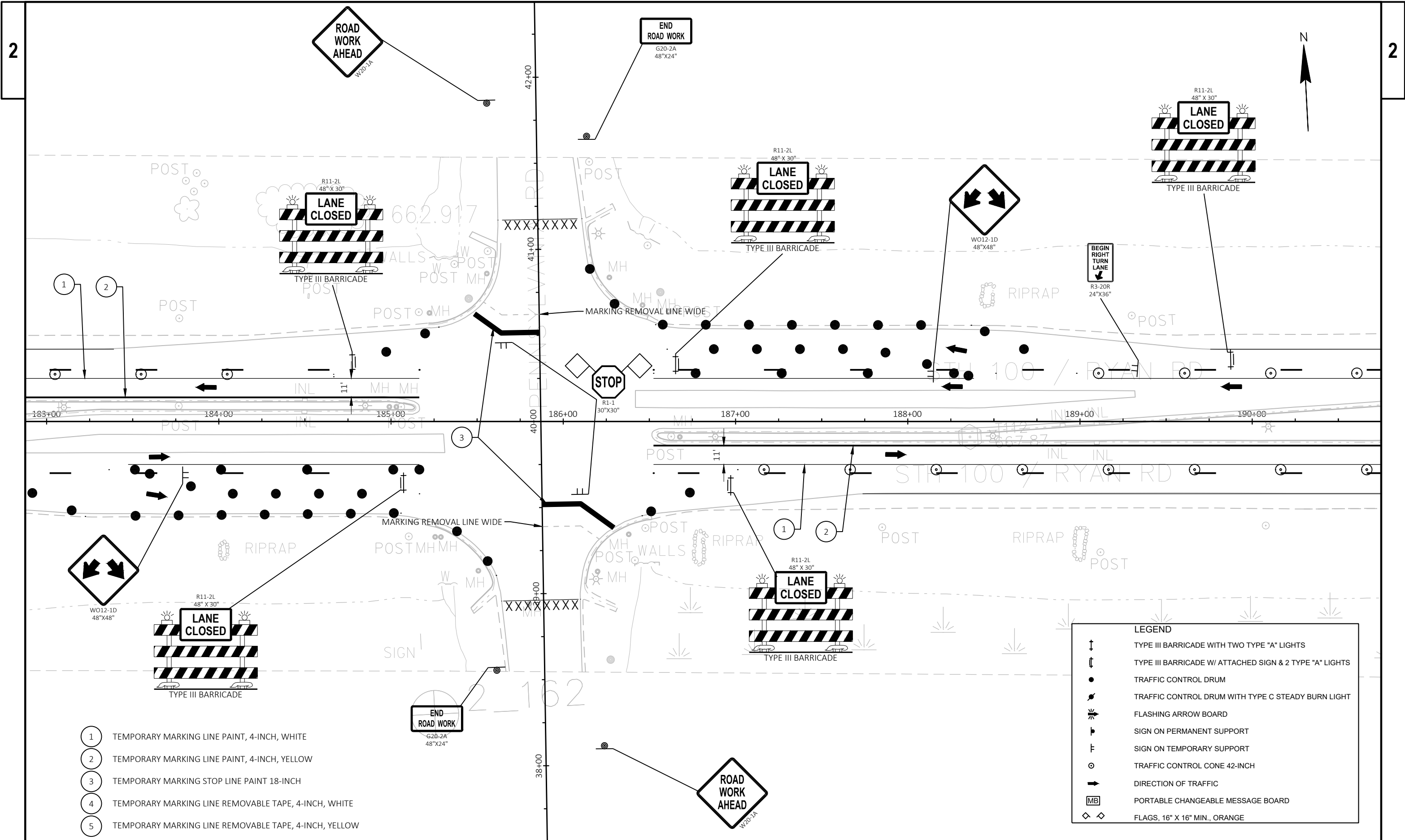
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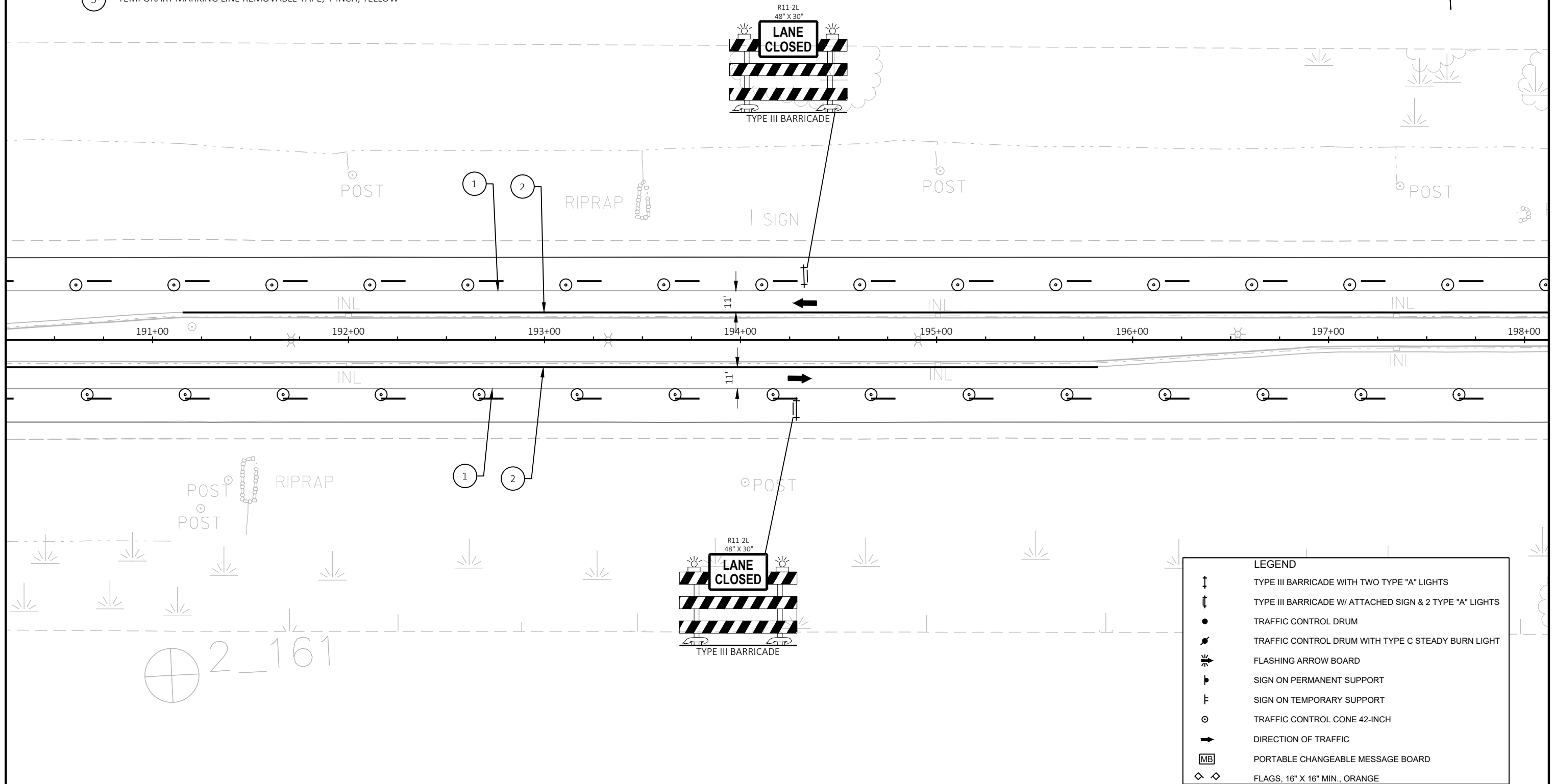


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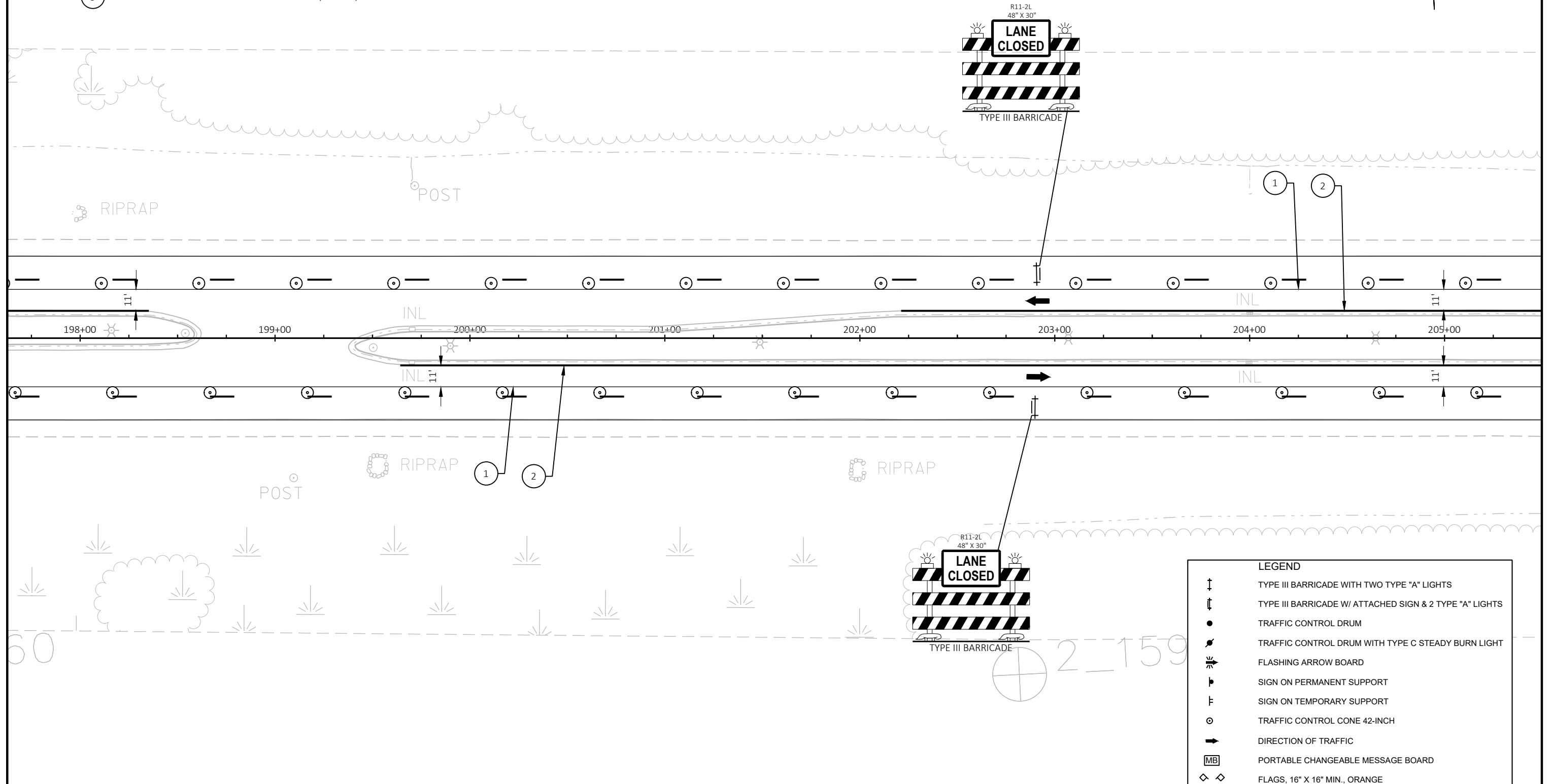
LEGEND	
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PROJECT NO: 2040-03-75

HWY: STH 100

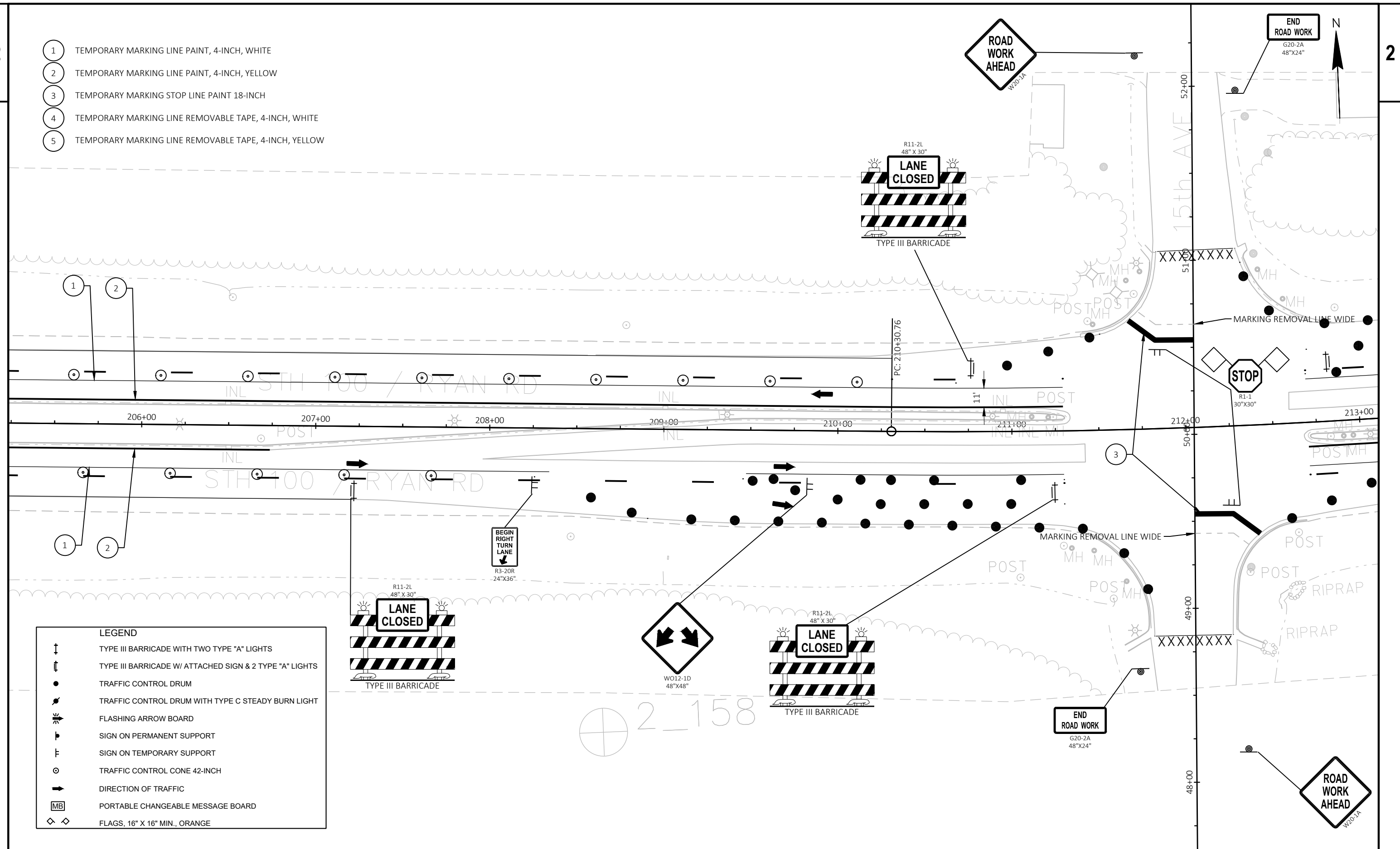
COUNTY: MILWAUKEE

TRAFFIC CONTROL - STAGE 1

SHEET

E

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PROJECT NO: 2040-03-75

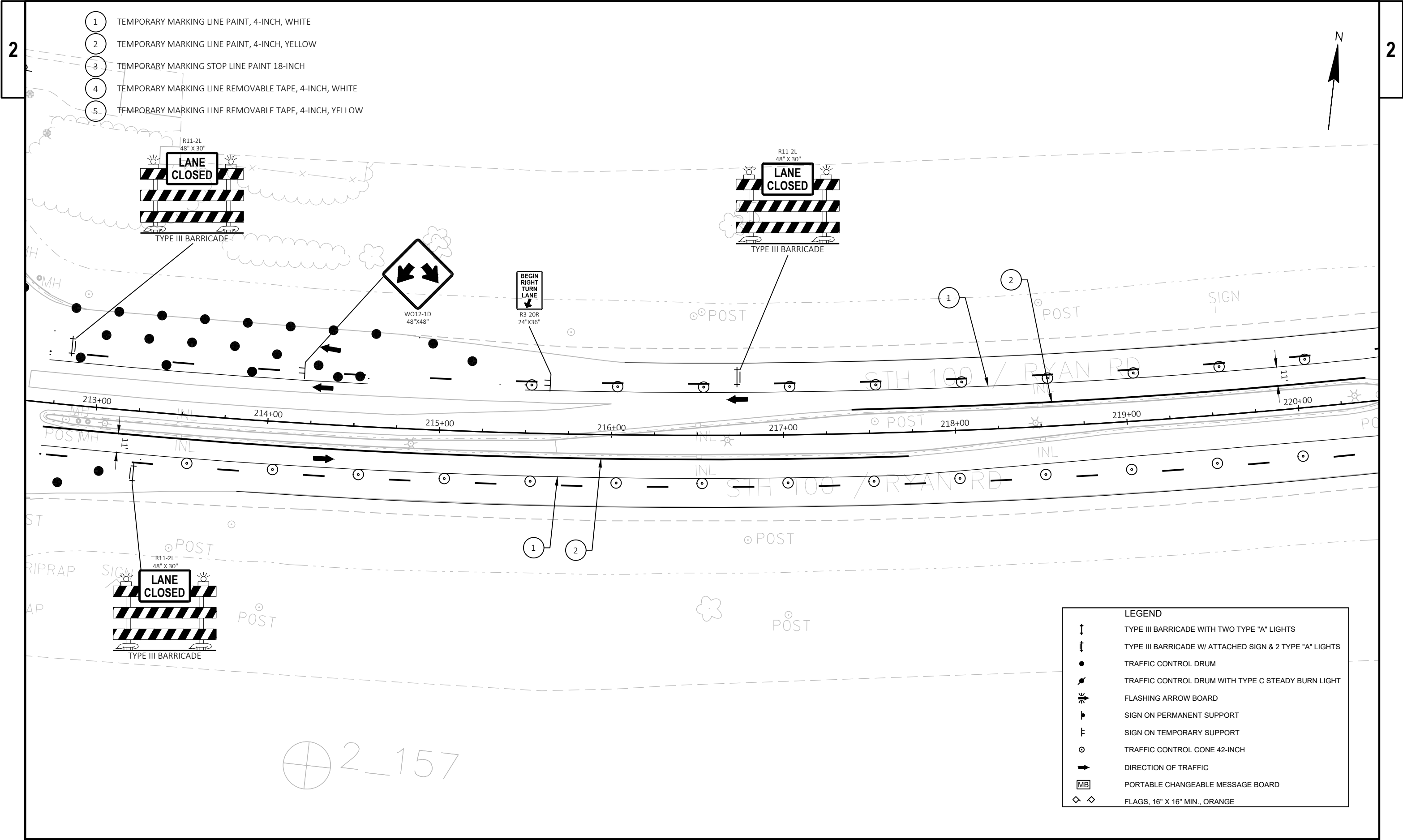
HWY: STH 100

COUNTY: MILWAUKEE

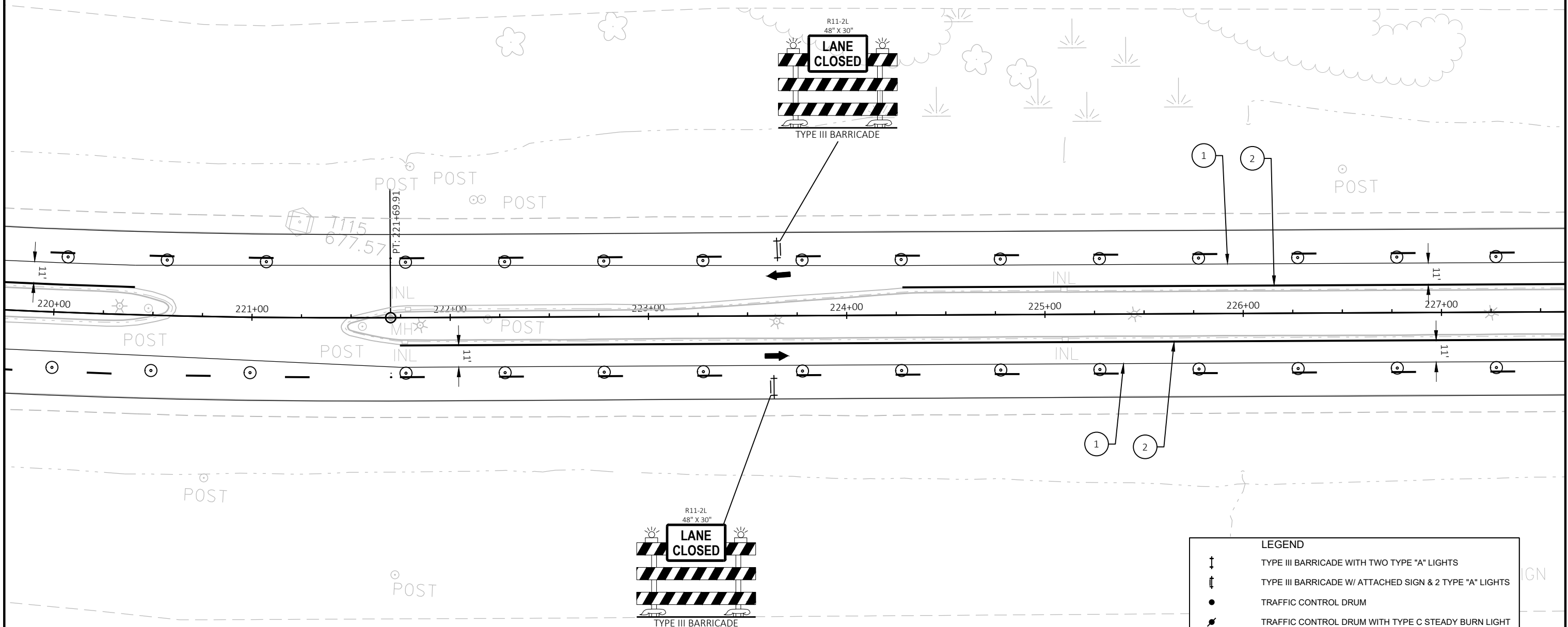
TRAFFIC CONTROL - STAGE 1

SHEET

E

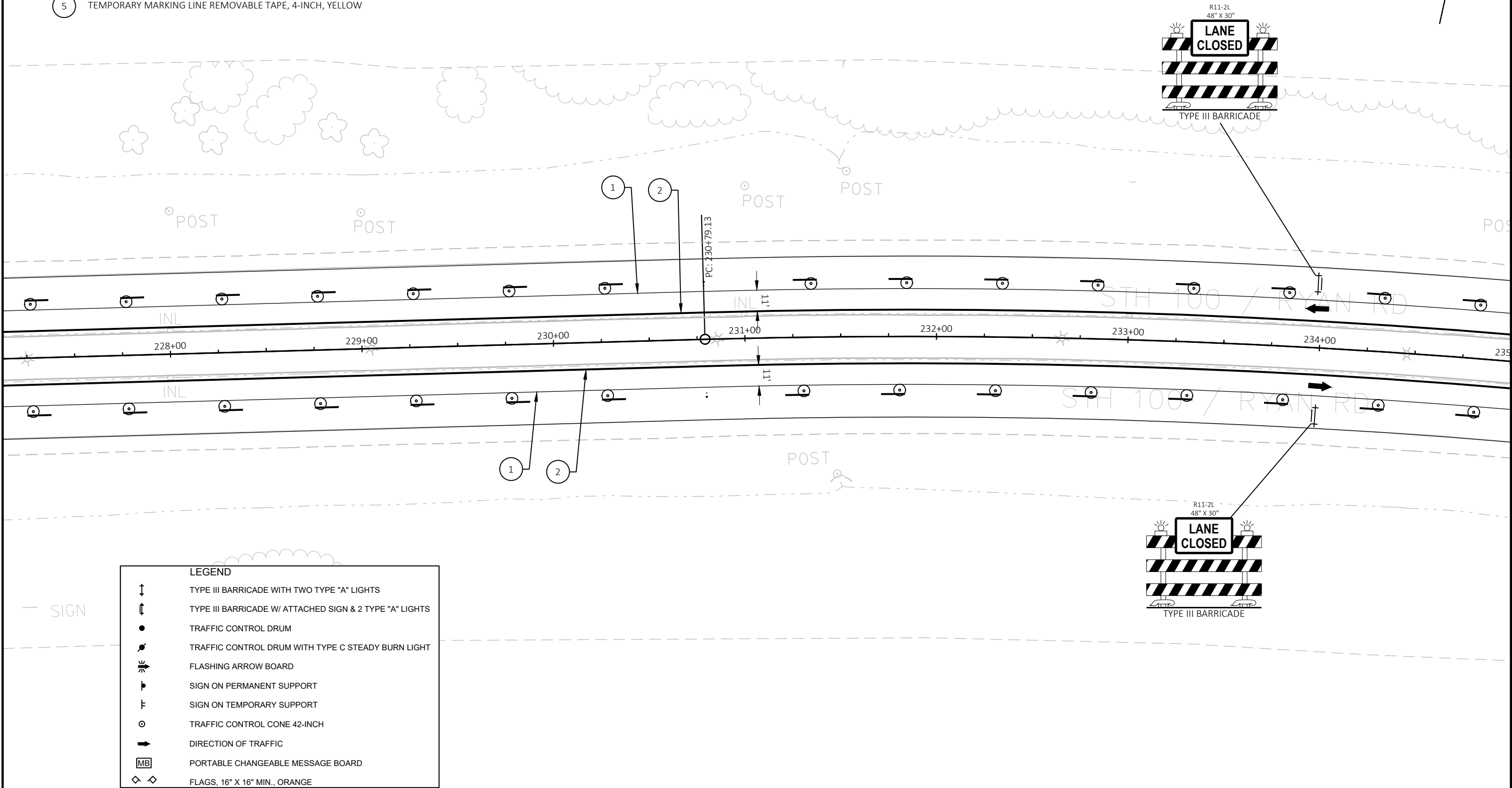


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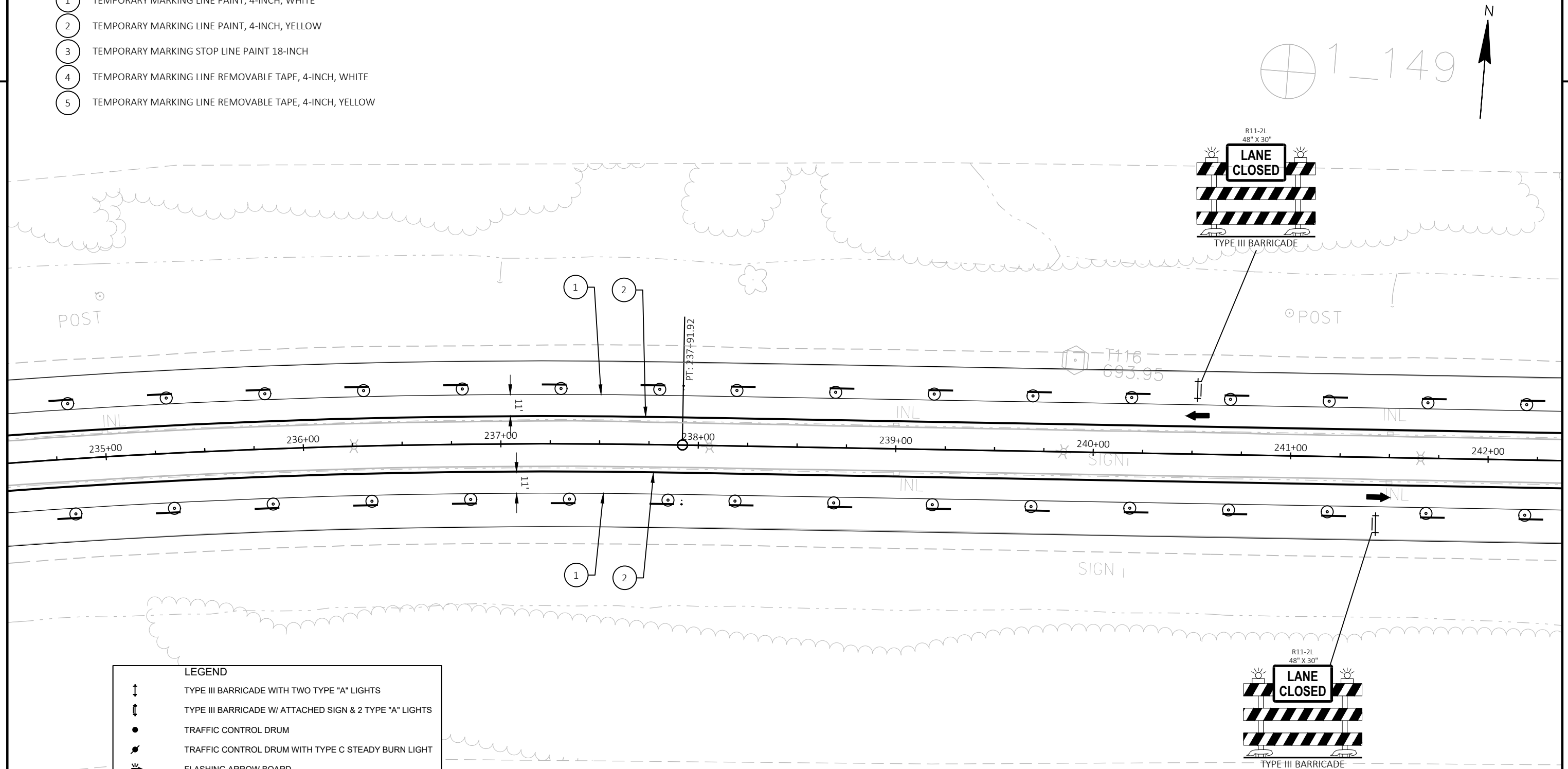


LEGEND	
	TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
	TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS
	TRAFFIC CONTROL DRUM
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	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
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	DIRECTION OF TRAFFIC
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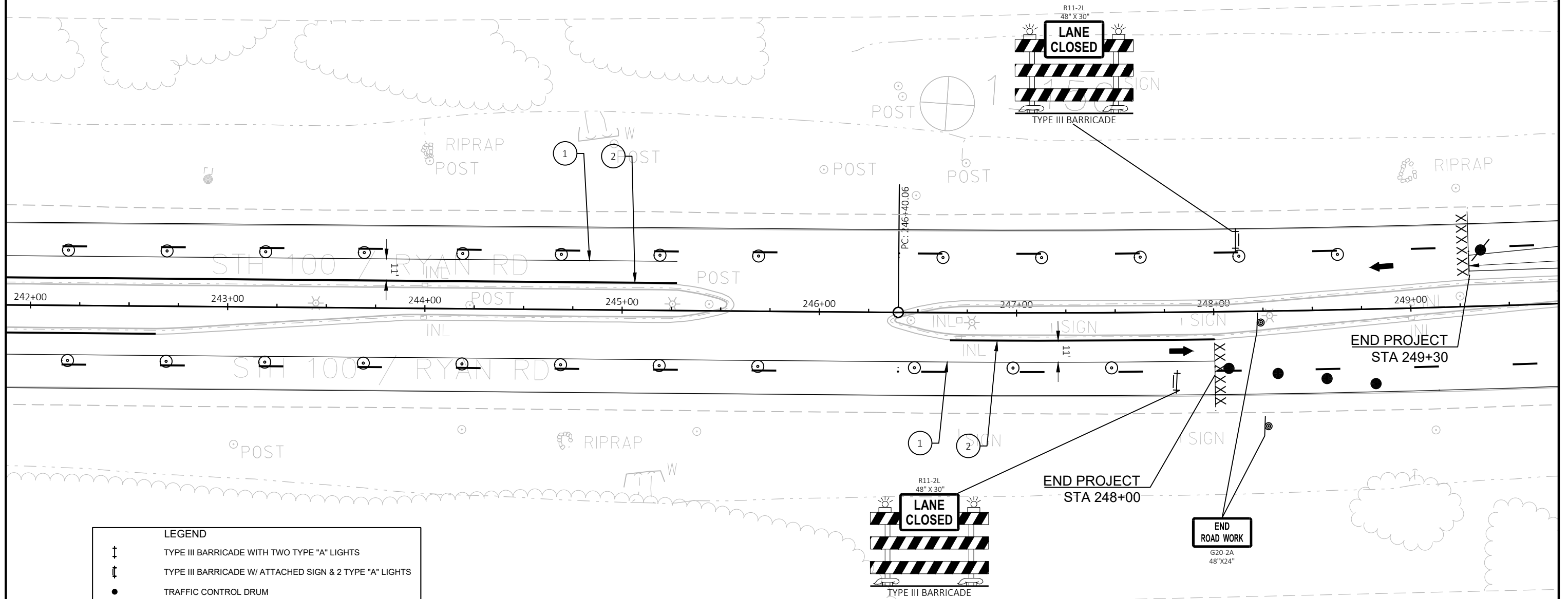


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- ↑ SIGN ON TEMPORARY SUPPORT
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- ➔ DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- ◇ ◇ FLAGS, 16" X 16" MIN., ORANGE

PROJECT NO: 2040-03-75

HWY: STH 100

COUNTY: MILWAUKEE

TRAFFIC CONTROL - STAGE 1

SHEET

E

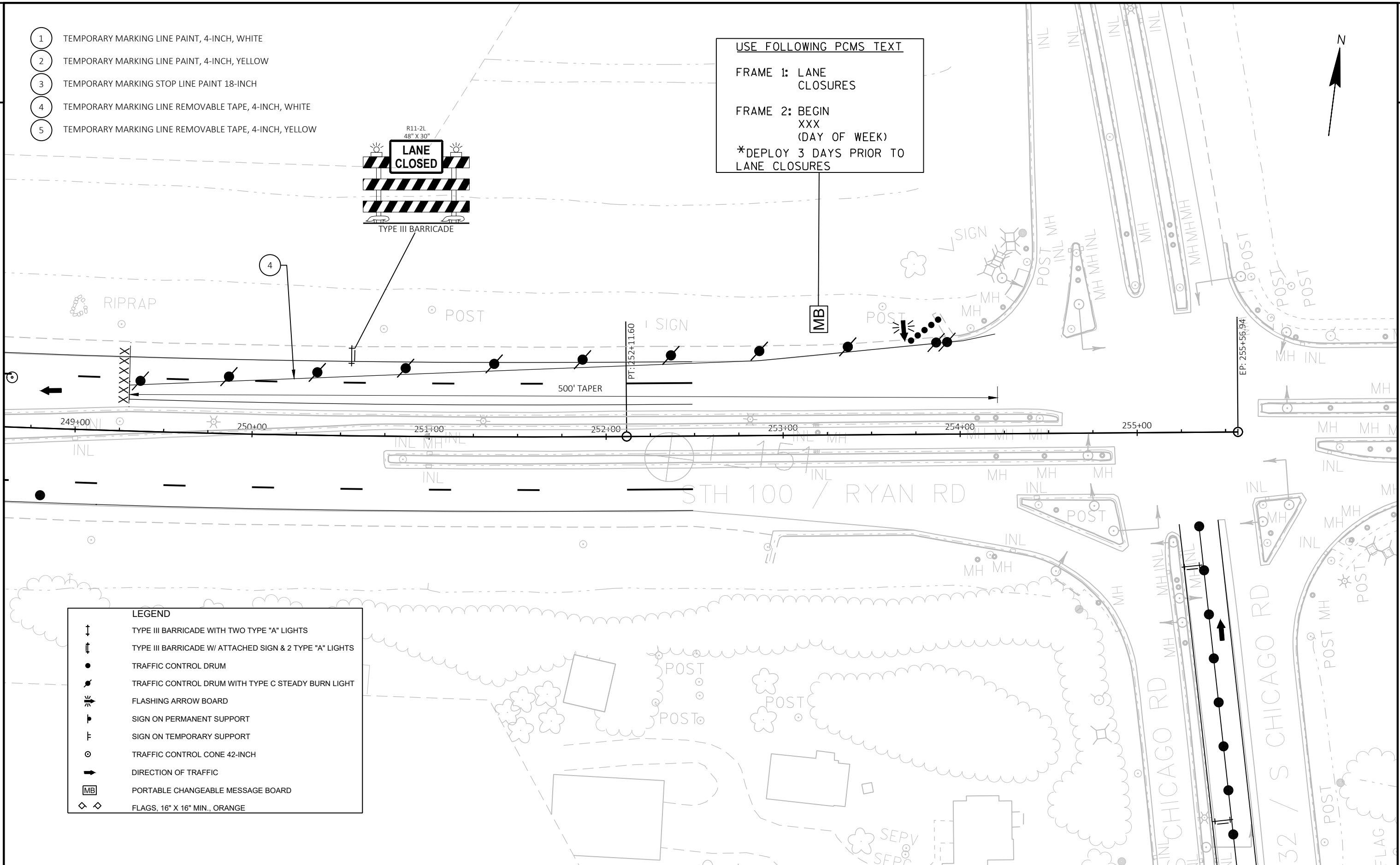
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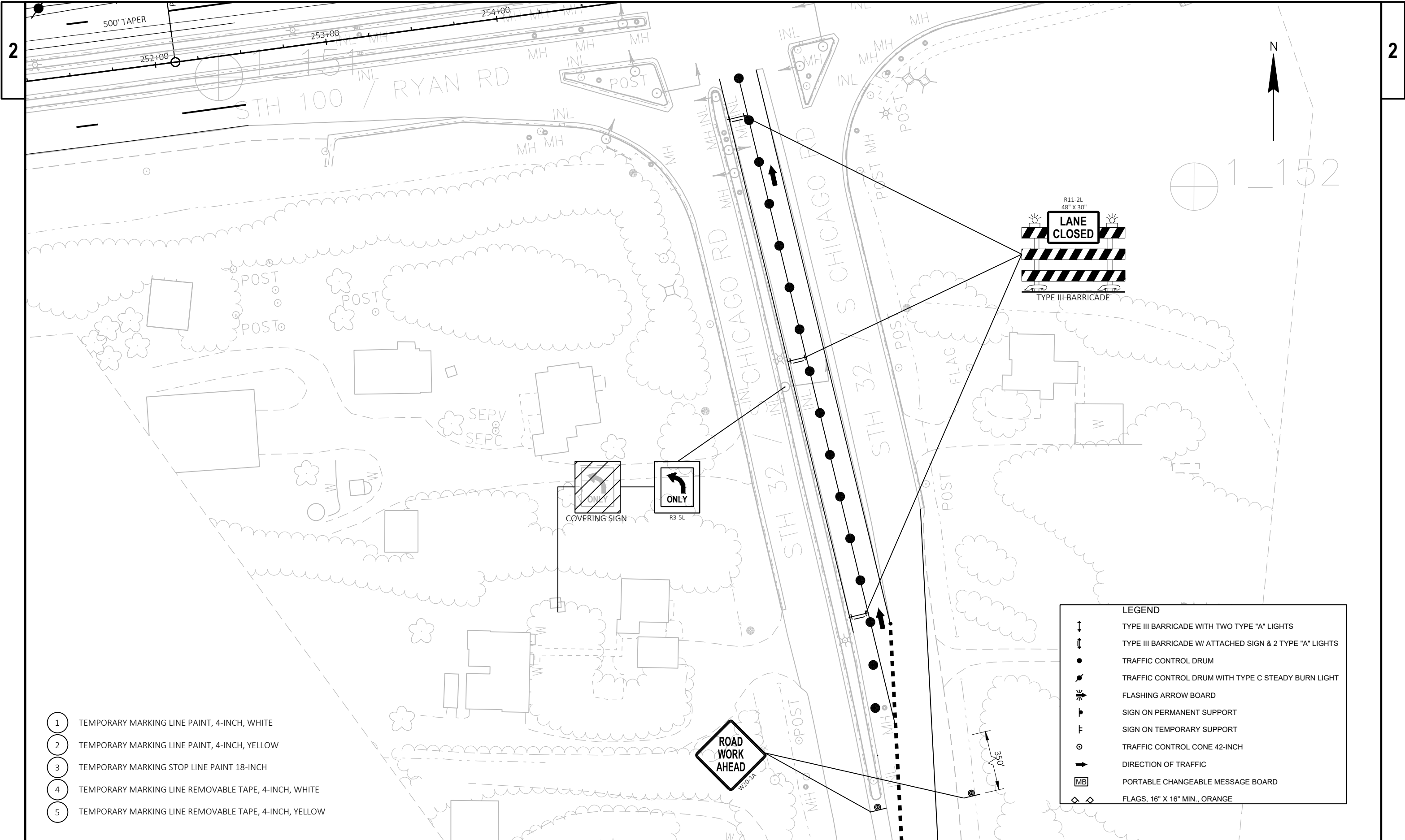
USE FOLLOWING PCMS TEXT

FRAME 1: LANE CLOSURES

FRAME 2: BEGIN
XXX
(DAY OF WEEK)

*DEPLOY 3 DAYS PRIOR TO LANE CLOSURES





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LEGEND

TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS

TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

FLASHING ARROW BOARD

SIGN ON PERMANENT SUPPORT

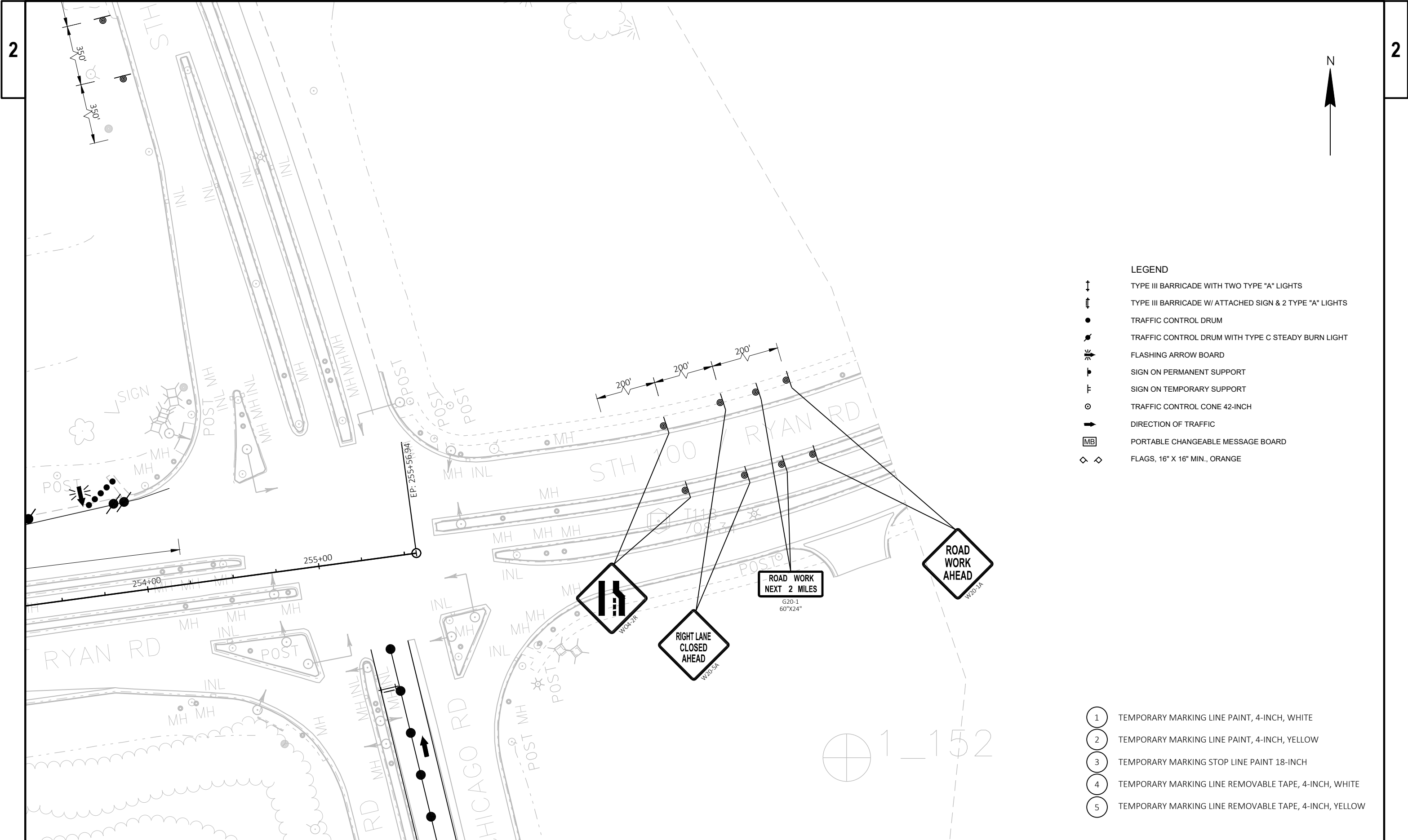
SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL CONE 42-INCH

DIRECTION OF TRAFFIC

PORTABLE CHANGEABLE MESSAGE BOARD

FLAGS, 16" X 16" MIN., ORANGE

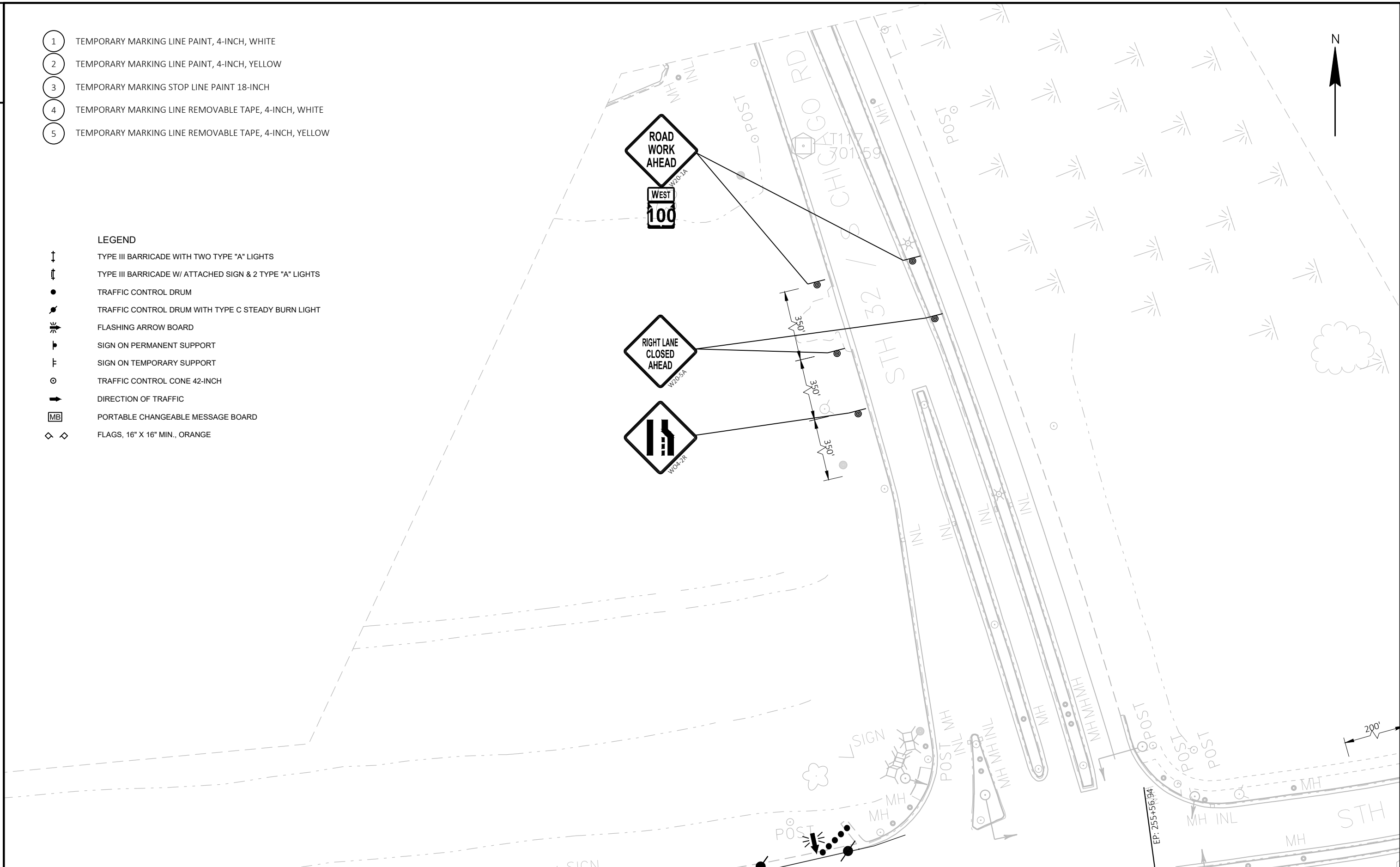


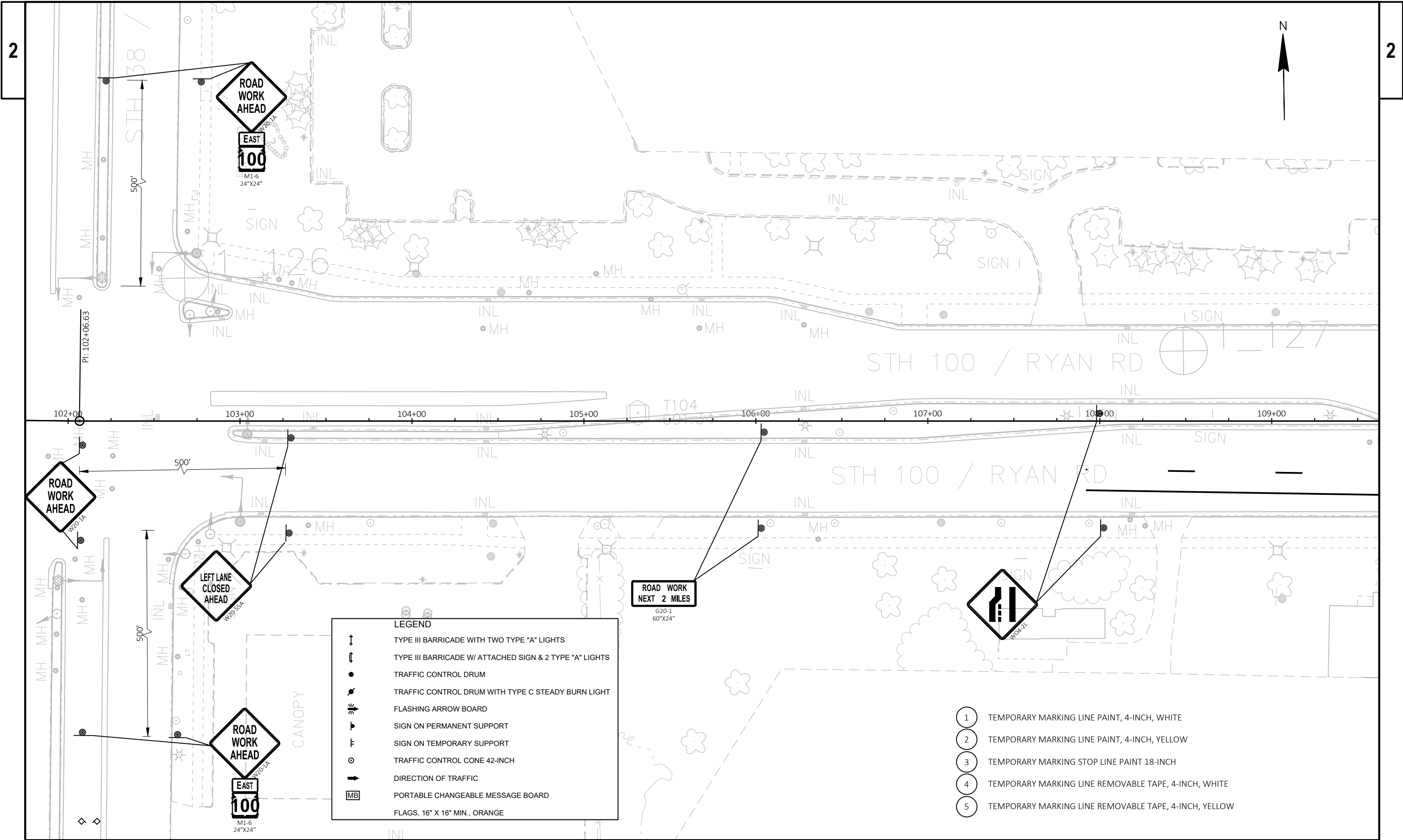
- LEGEND**
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
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 - SIGN ON TEMPORARY SUPPORT
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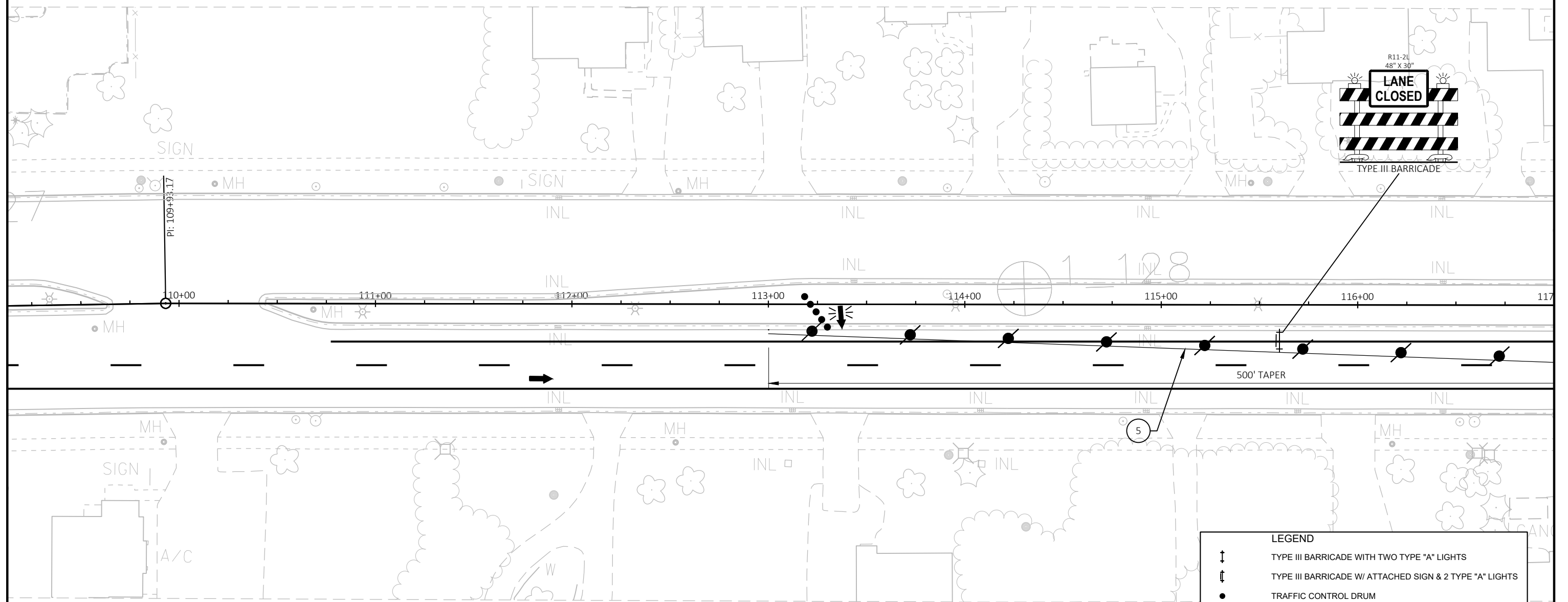
LEGEND

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- DIRECTION OF TRAFFIC
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LEGEND

TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS

TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

FLASHING ARROW BOARD

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

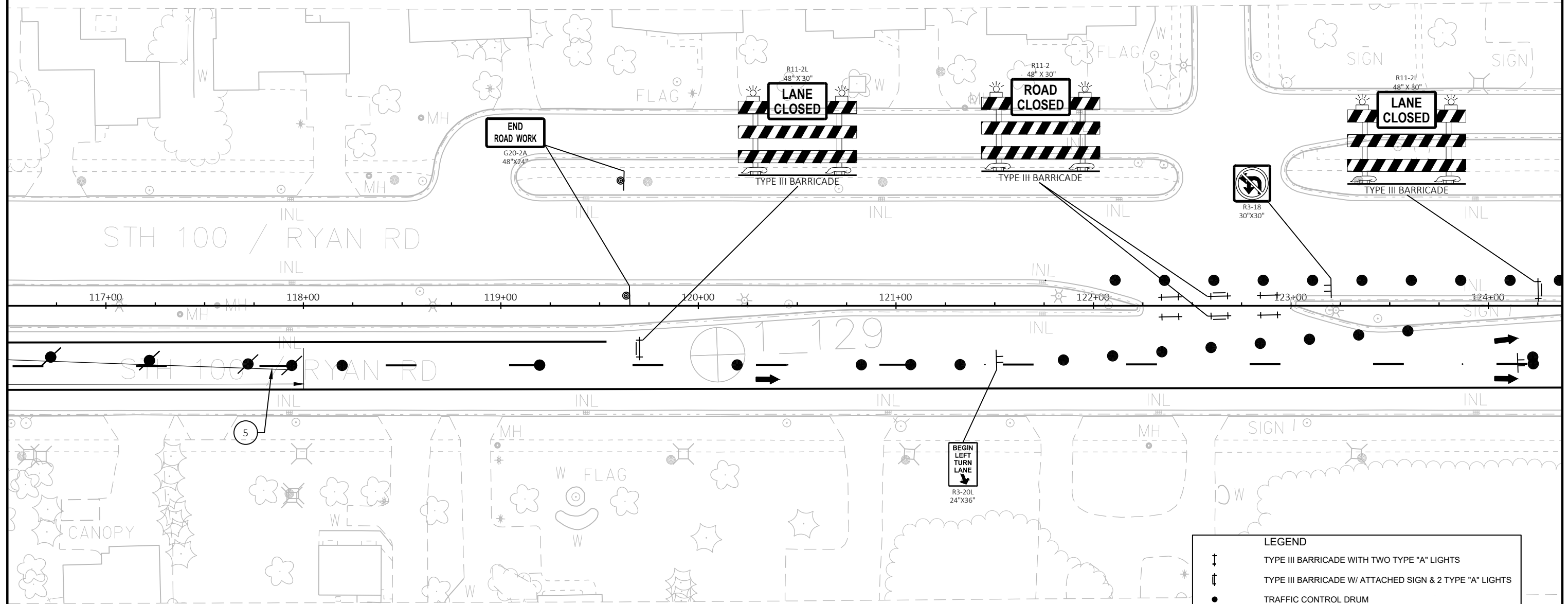
TRAFFIC CONTROL CONE 42-INCH

DIRECTION OF TRAFFIC

PORTABLE CHANGEABLE MESSAGE BOARD

FLAGS, 16" X 16" MIN., ORANGE

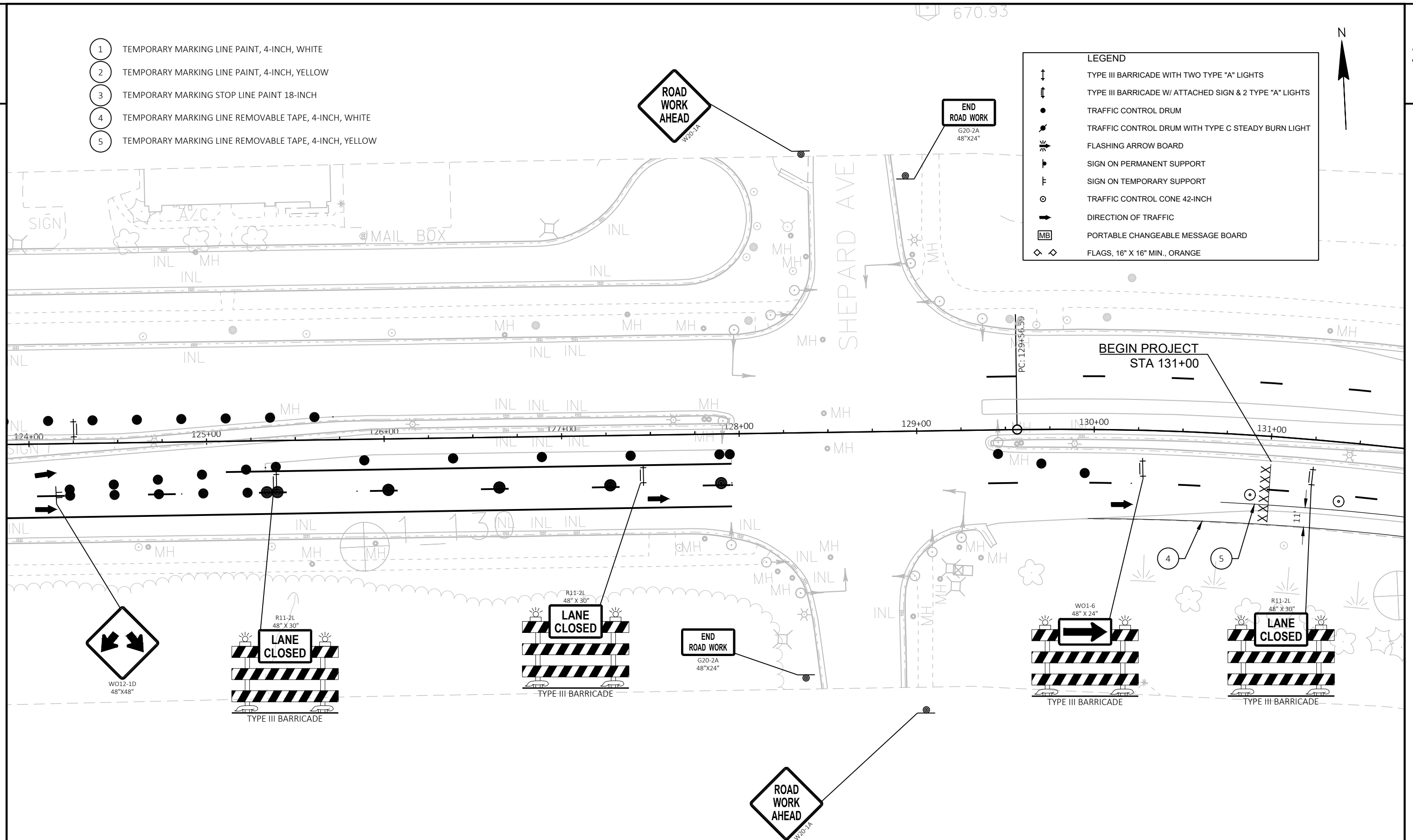
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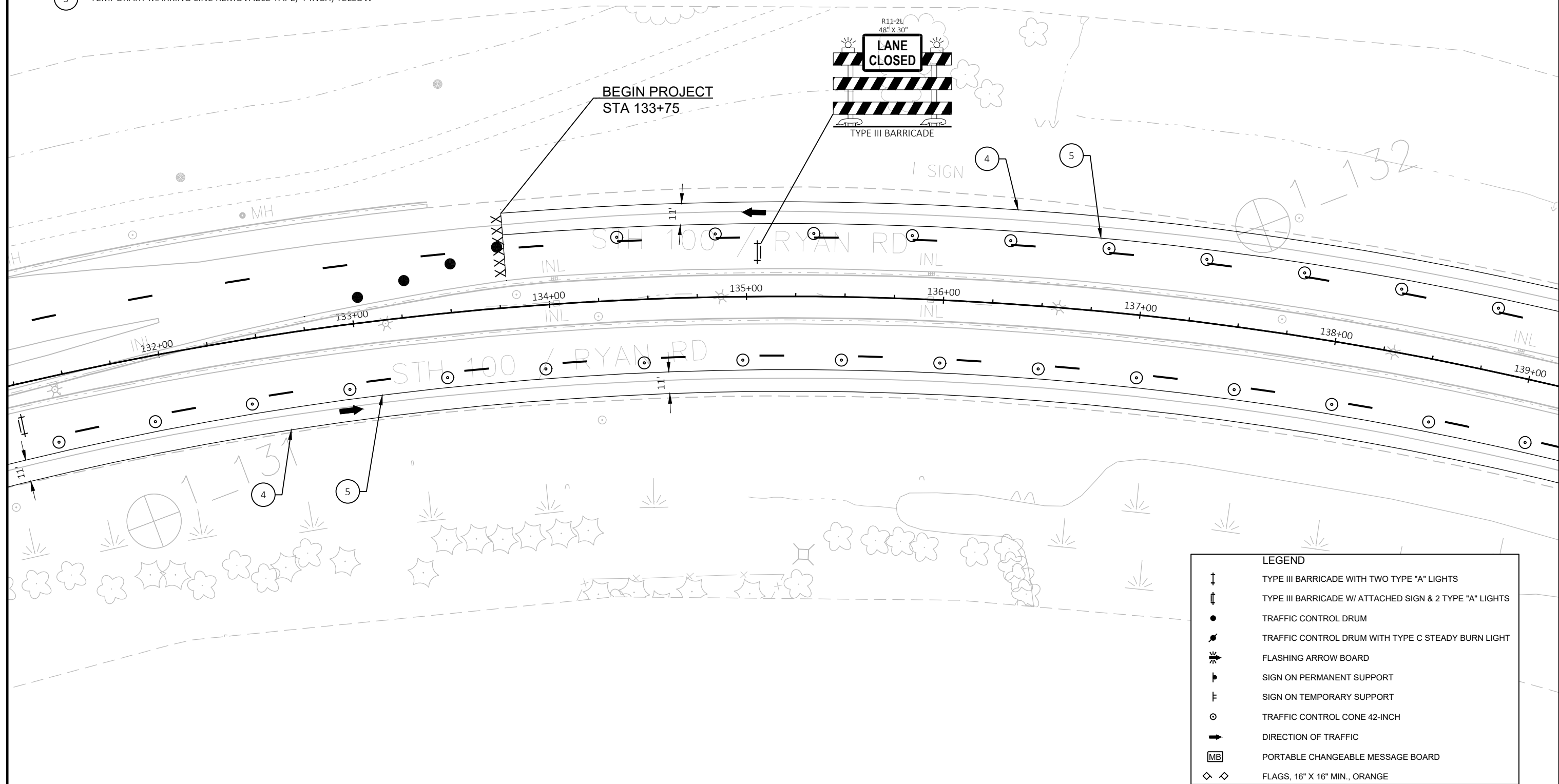
LEGEND	
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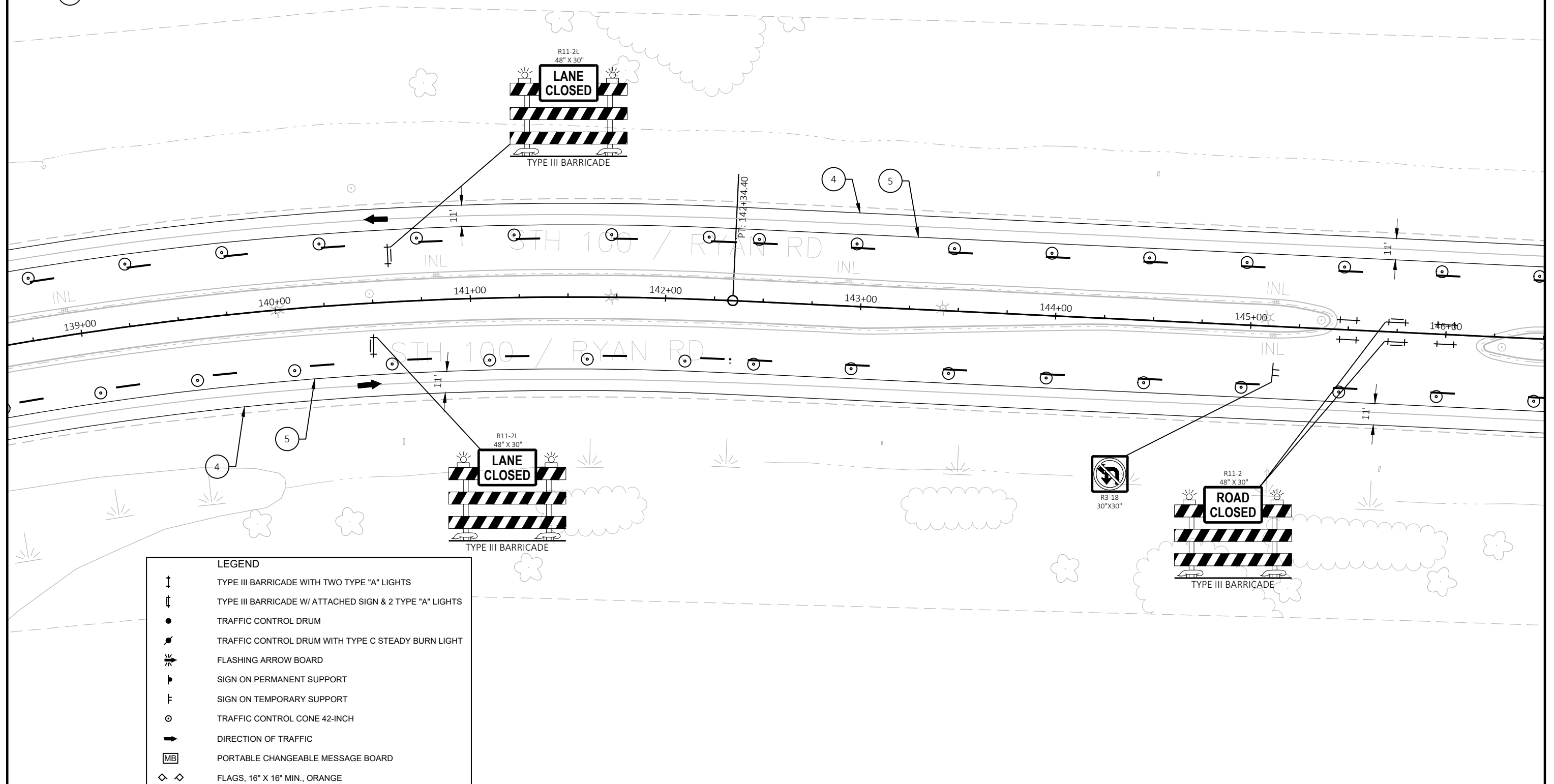
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PROJECT NO: 2040-03-75

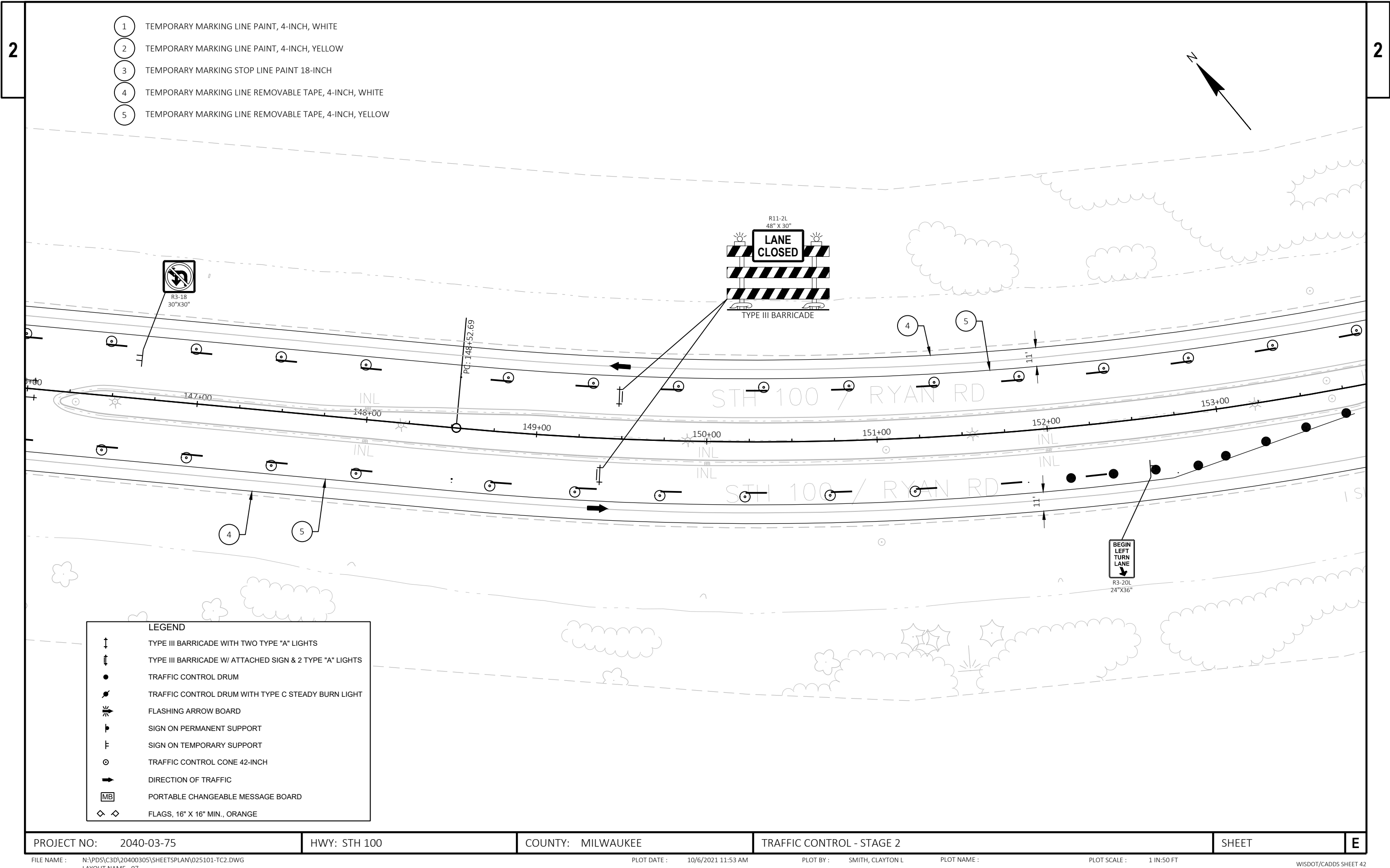
HWY: STH 100

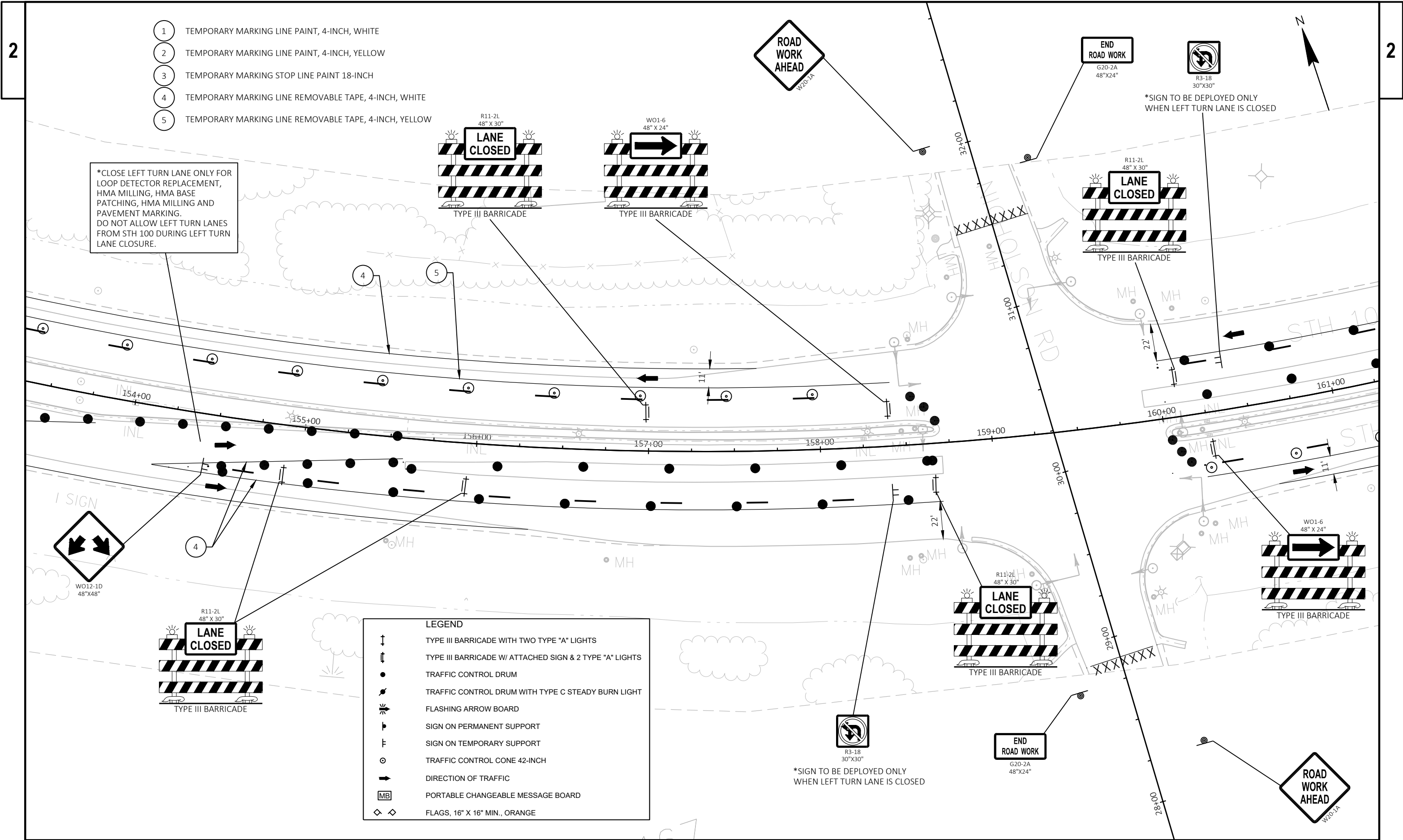
COUNTY: MILWAUKEE

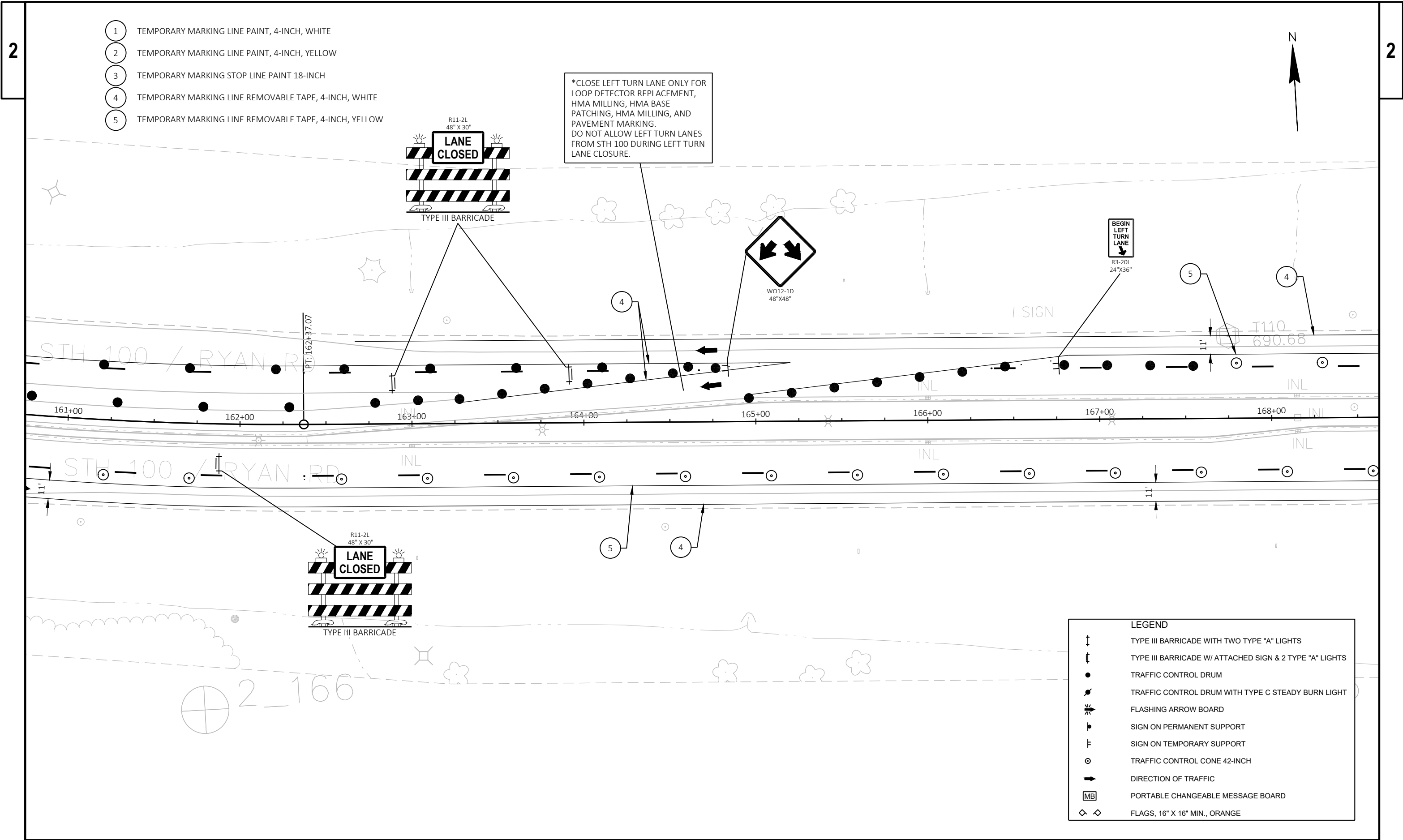
TRAFFIC CONTROL - STAGE 2

SHEET

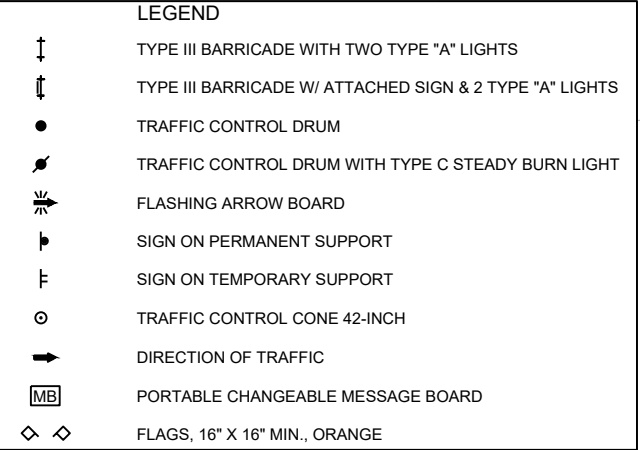
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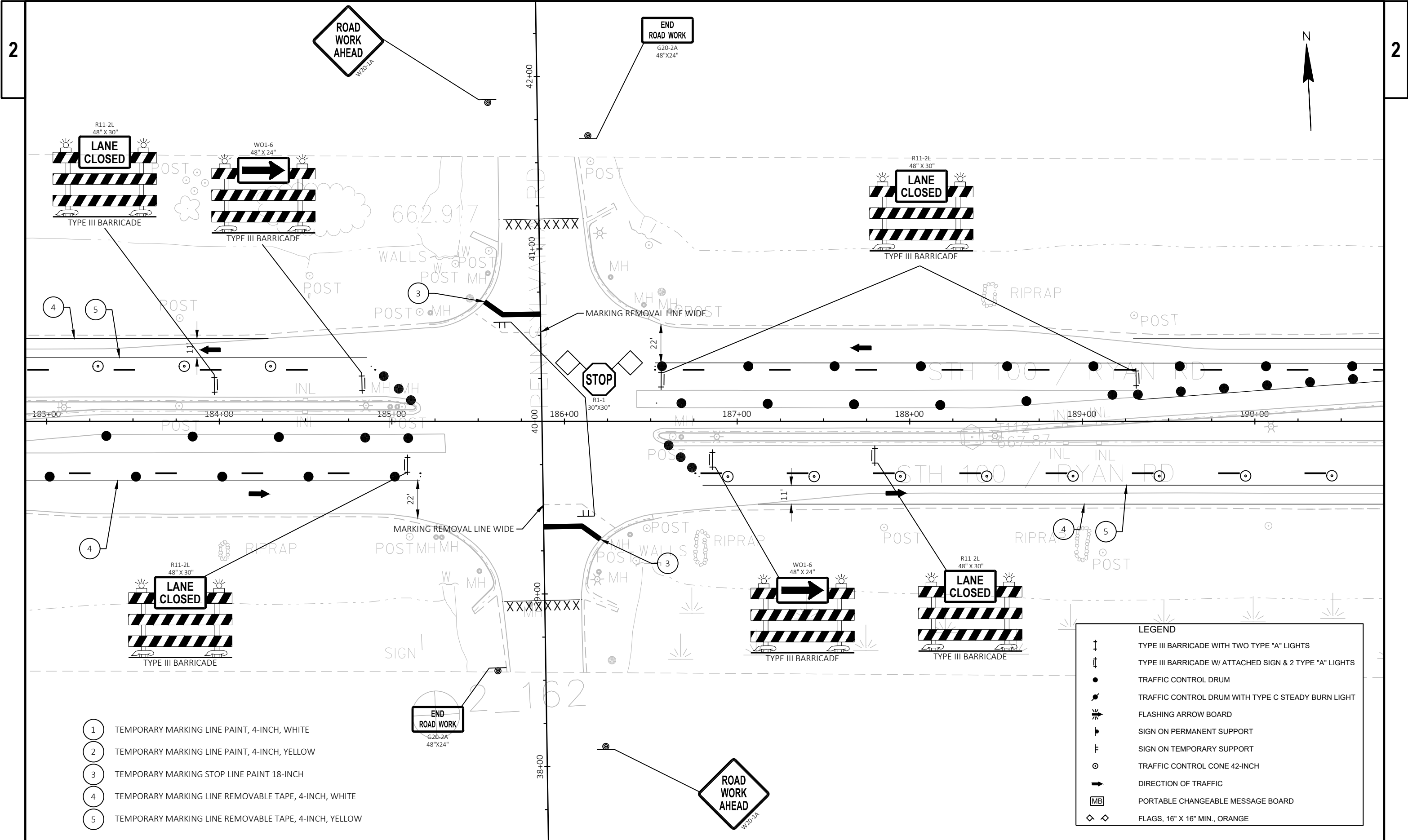




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LEGEND

↑

TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS

↑

TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS

●

TRAFFIC CONTROL DRUM

●

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

↻

FLASHING ARROW BOARD

▮

SIGN ON PERMANENT SUPPORT

▮

SIGN ON TEMPORARY SUPPORT

○

TRAFFIC CONTROL CONE 42-INCH

→

DIRECTION OF TRAFFIC

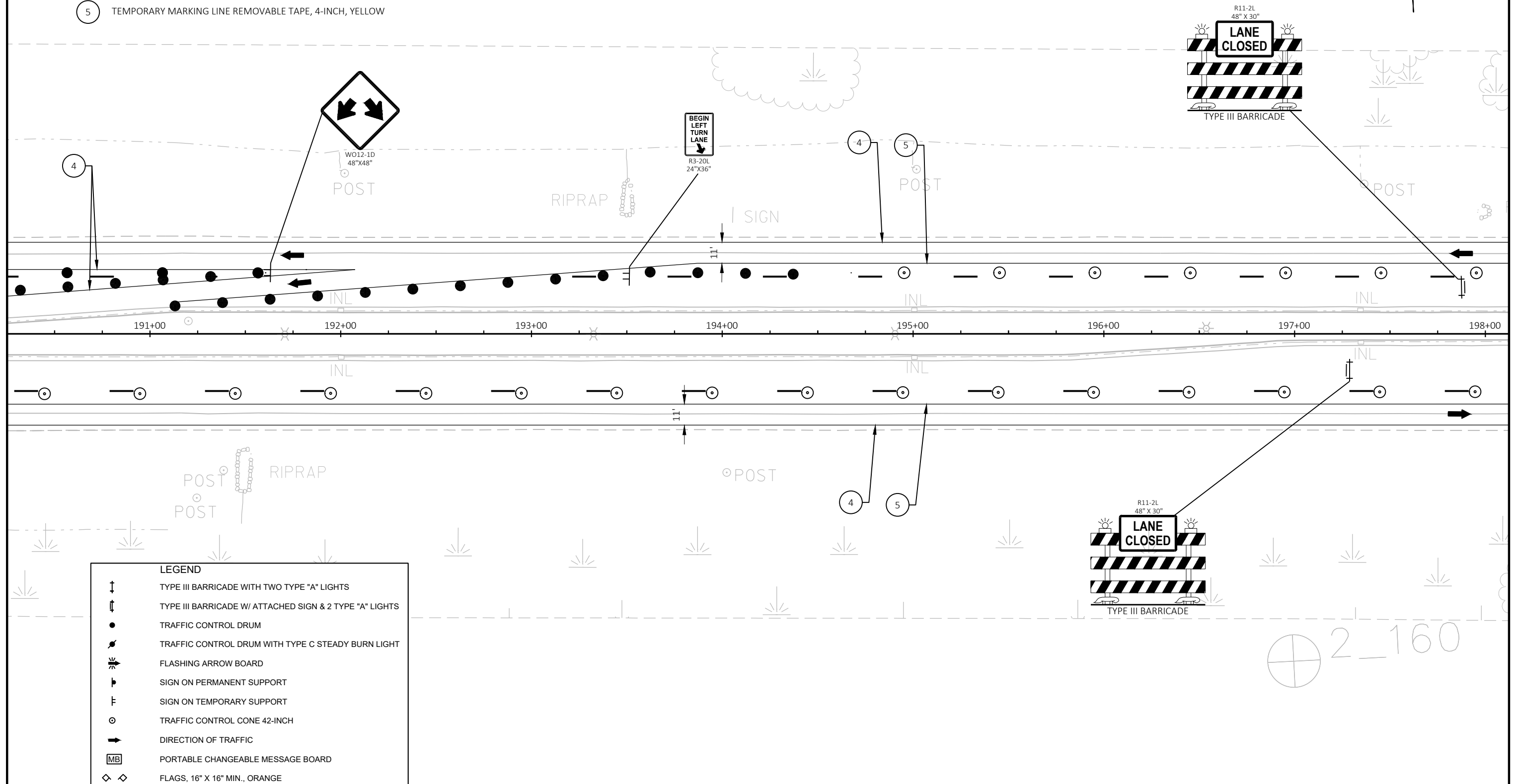
MB

PORTABLE CHANGEABLE MESSAGE BOARD

◇ ◇

FLAGS, 16" X 16" MIN., ORANGE

- 1 TEMPORARY MARKING LINE PAINT, 4-INCH, WHITE
- 2 TEMPORARY MARKING LINE PAINT, 4-INCH, YELLOW
- 3 TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, WHITE
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, YELLOW



PROJECT NO: 2040-03-75

HWY: STH 100

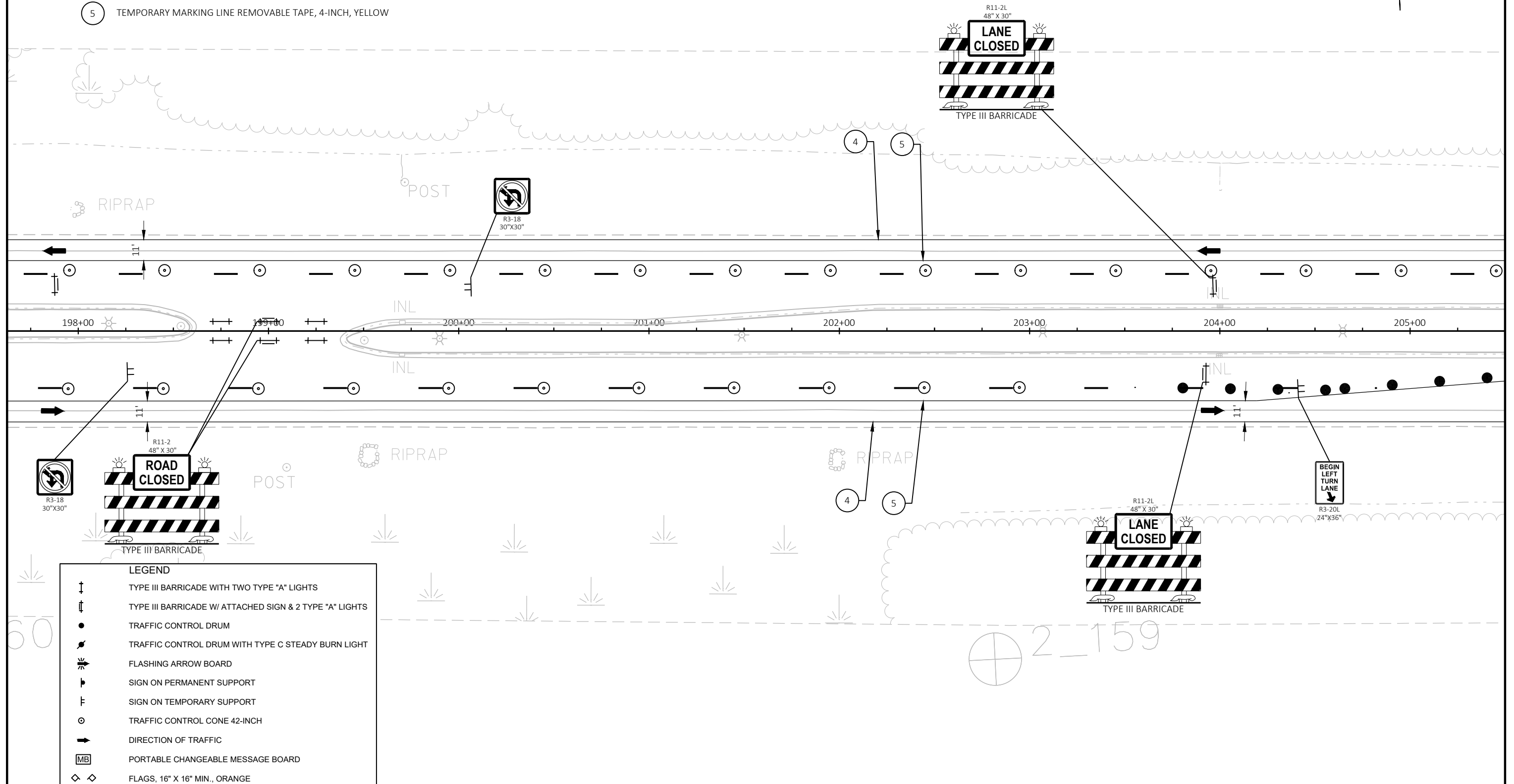
COUNTY: MILWAUKEE

TRAFFIC CONTROL - STAGE 2

SHEET

E

- 1 TEMPORARY MARKING LINE PAINT, 4-INCH, WHITE
- 2 TEMPORARY MARKING LINE PAINT, 4-INCH, YELLOW
- 3 TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, WHITE
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, YELLOW



PROJECT NO: 2040-03-75

HWY: STH 100

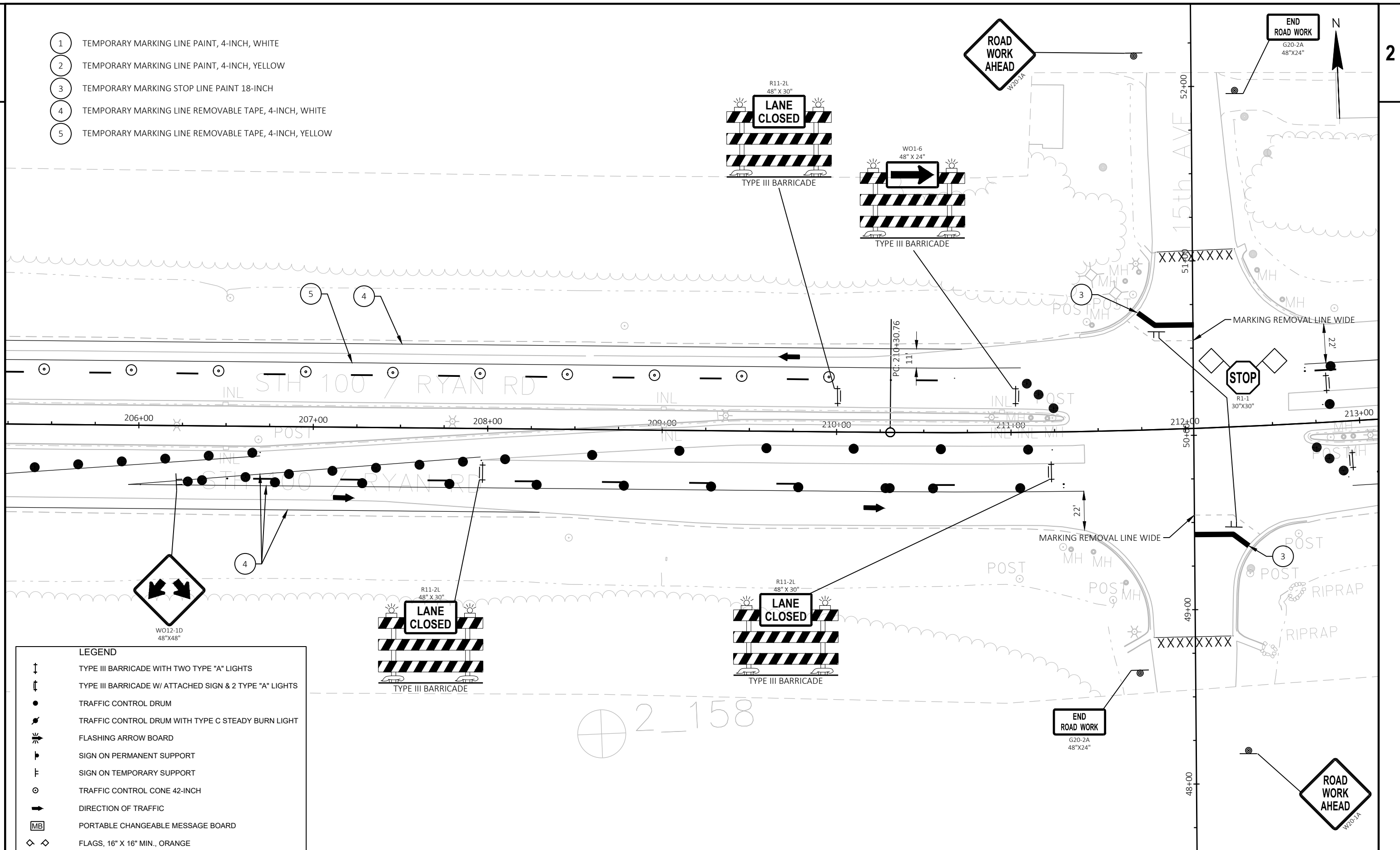
COUNTY: MILWAUKEE

TRAFFIC CONTROL - STAGE 2

SHEET

E

- 1 TEMPORARY MARKING LINE PAINT, 4-INCH, WHITE
- 2 TEMPORARY MARKING LINE PAINT, 4-INCH, YELLOW
- 3 TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, WHITE
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, YELLOW



PROJECT NO: 2040-03-75

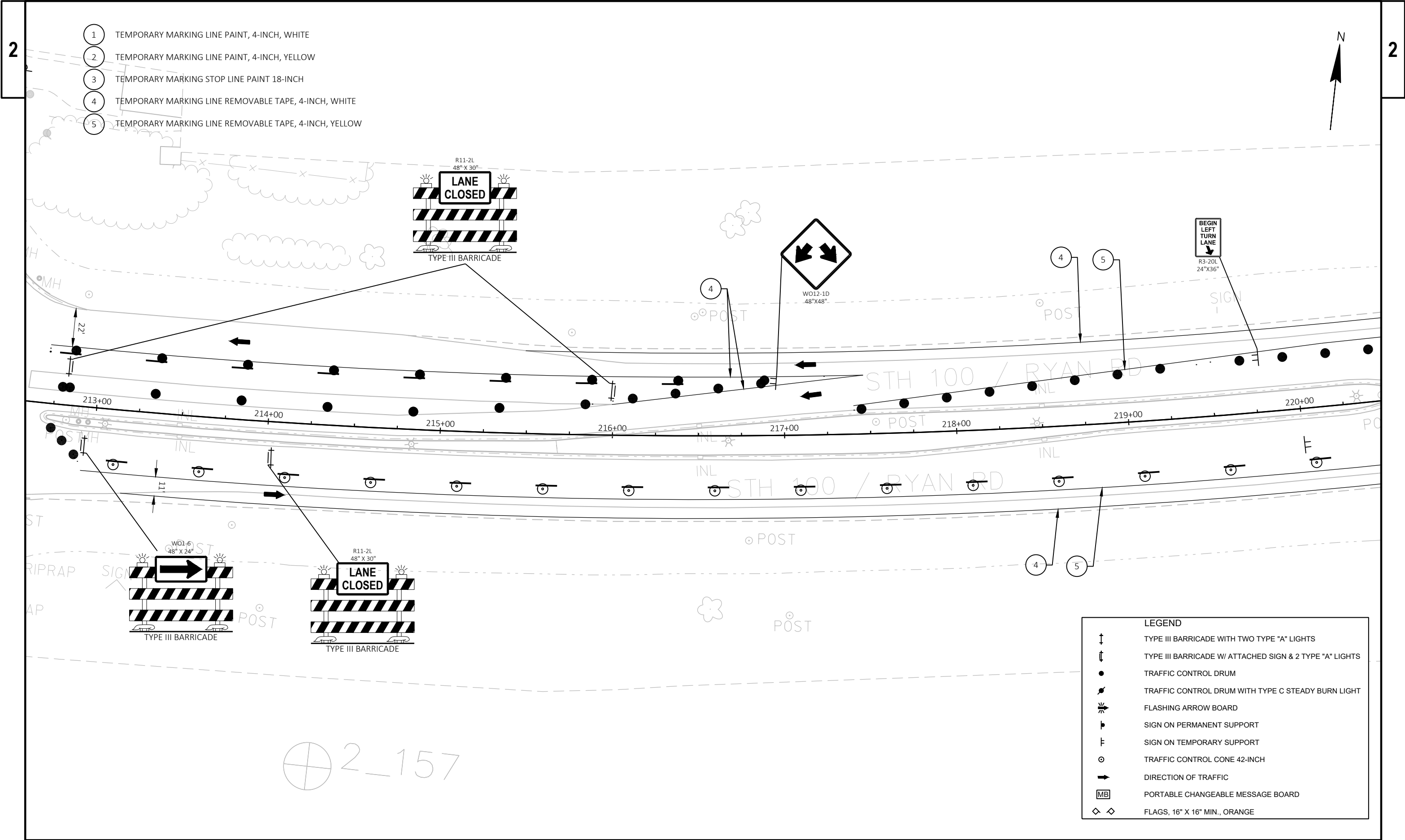
HWY: STH 100

COUNTY: MILWAUKEE

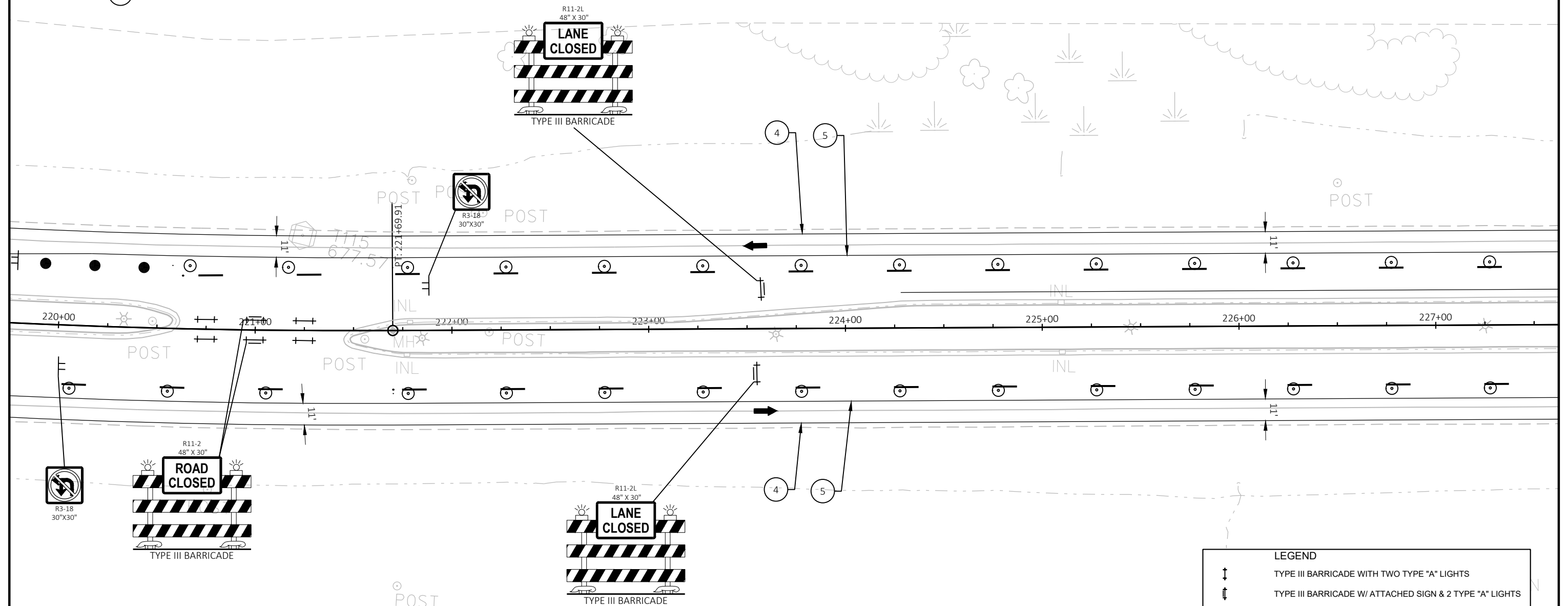
TRAFFIC CONTROL - STAGE 2

SHEET

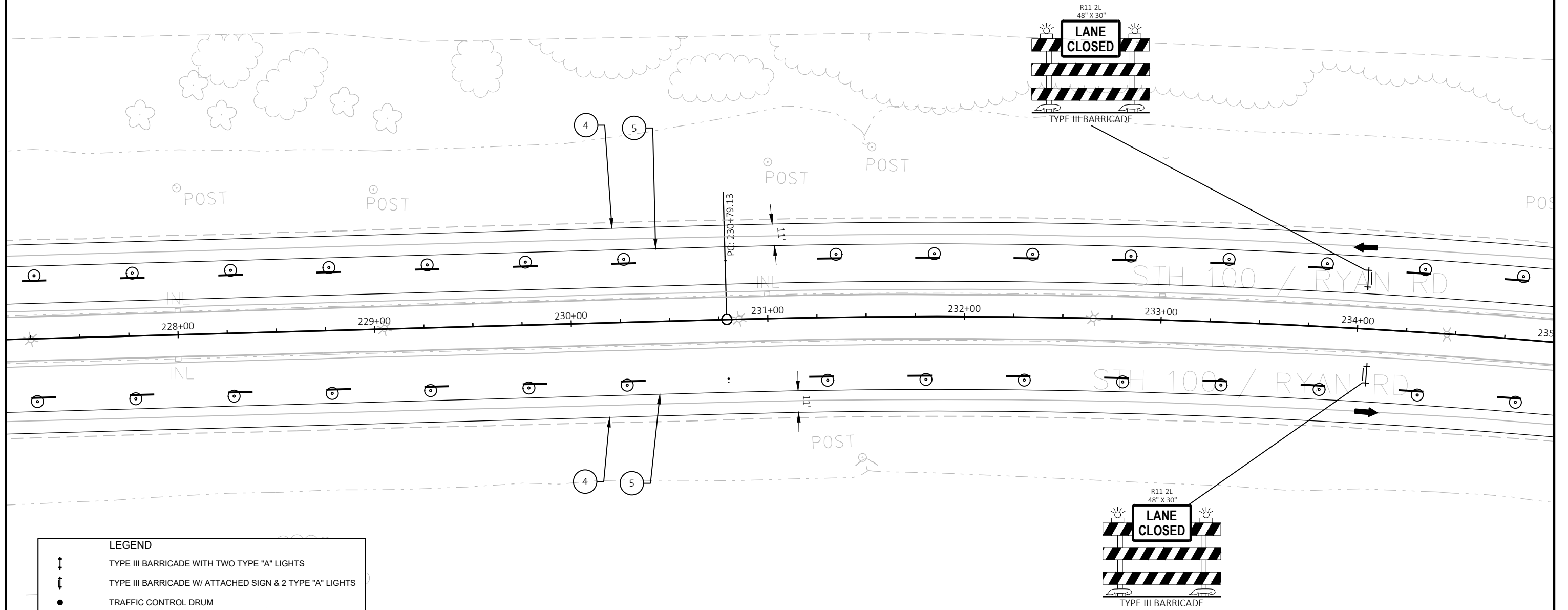
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- 5 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, YELLOW



LEGEND

TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS

TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

FLASHING ARROW BOARD

SIGN ON PERMANENT SUPPORT

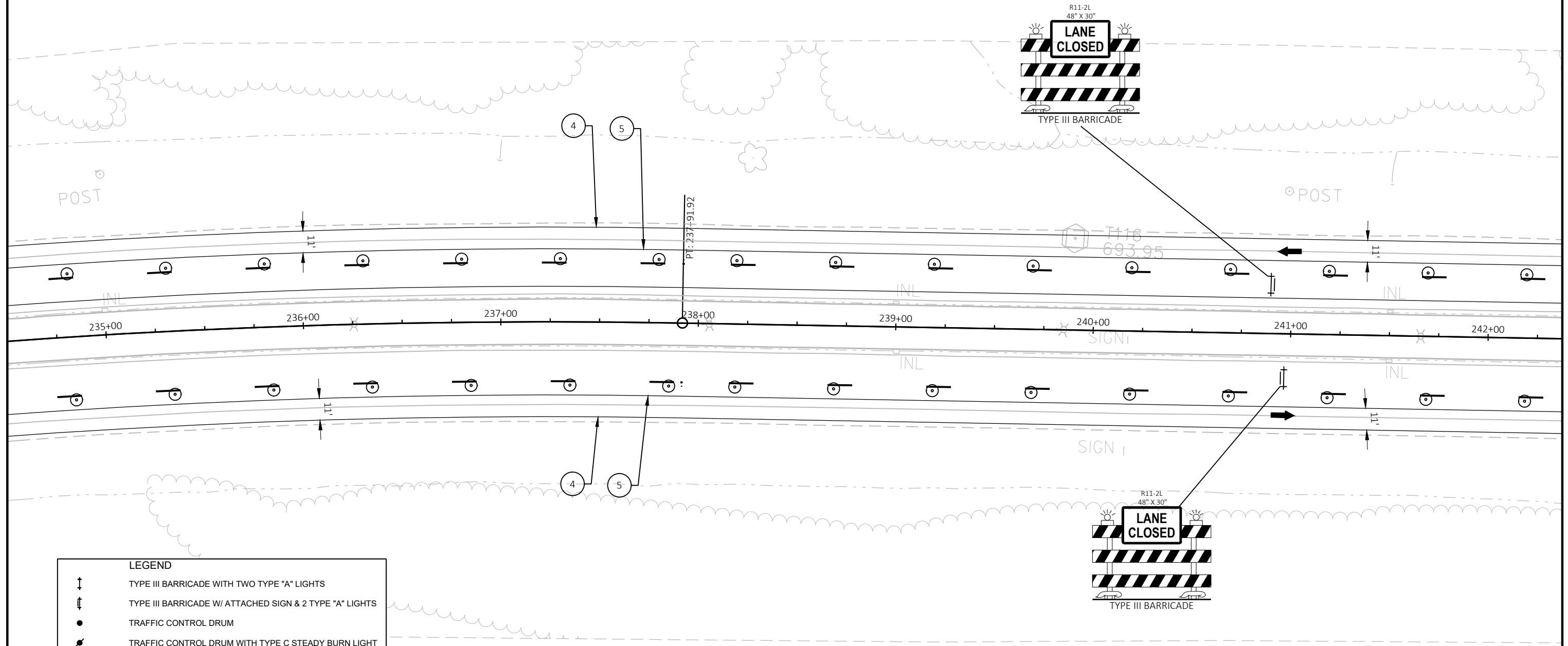
SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL CONE 42-INCH

DIRECTION OF TRAFFIC

PORTABLE CHANGEABLE MESSAGE BOARD

- 1 TEMPORARY MARKING LINE PAINT, 4-INCH, WHITE
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- 3 TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, WHITE
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, YELLOW



LEGEND

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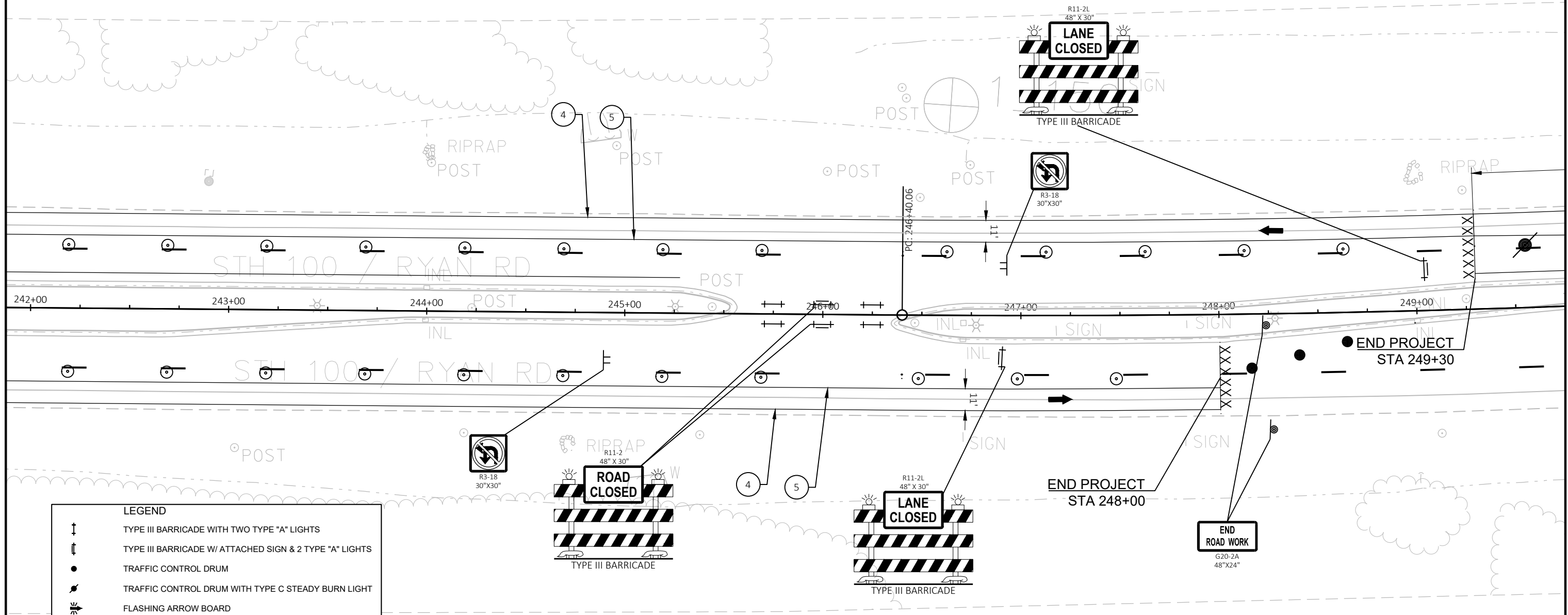
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TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS
TRAFFIC CONTROL DRUM
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
FLASHING ARROW BOARD
SIGN ON PERMANENT SUPPORT
SIGN ON TEMPORARY SUPPORT
TRAFFIC CONTROL CONE 42-INCH
DIRECTION OF TRAFFIC
PORTABLE CHANGEABLE MESSAGE BOARD
FLAGS, 16" X 16" MIN., ORANGE

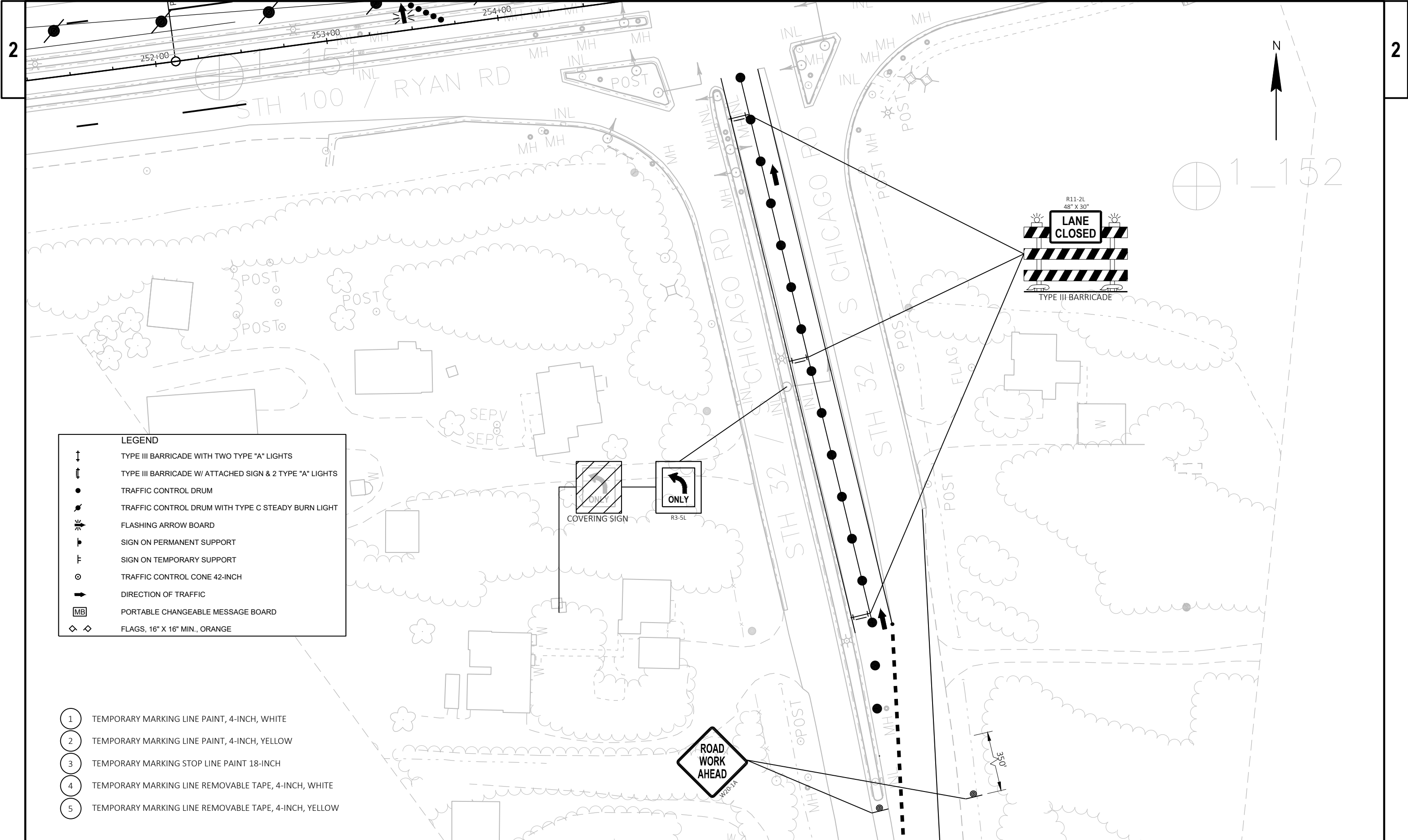
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- 4 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, WHITE
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LEGEND	
	TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
	TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL CONE 42-INCH
	DIRECTION OF TRAFFIC
	PORTABLE CHANGEABLE MESSAGE BOARD
	FLAGS, 16" X 16" MIN., ORANGE

-





LEGEND

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TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS

TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

FLASHING ARROW BOARD

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL CONE 42-INCH

DIRECTION OF TRAFFIC

PORTABLE CHANGEABLE MESSAGE BOARD

FLAGS, 16" X 16" MIN., ORANGE

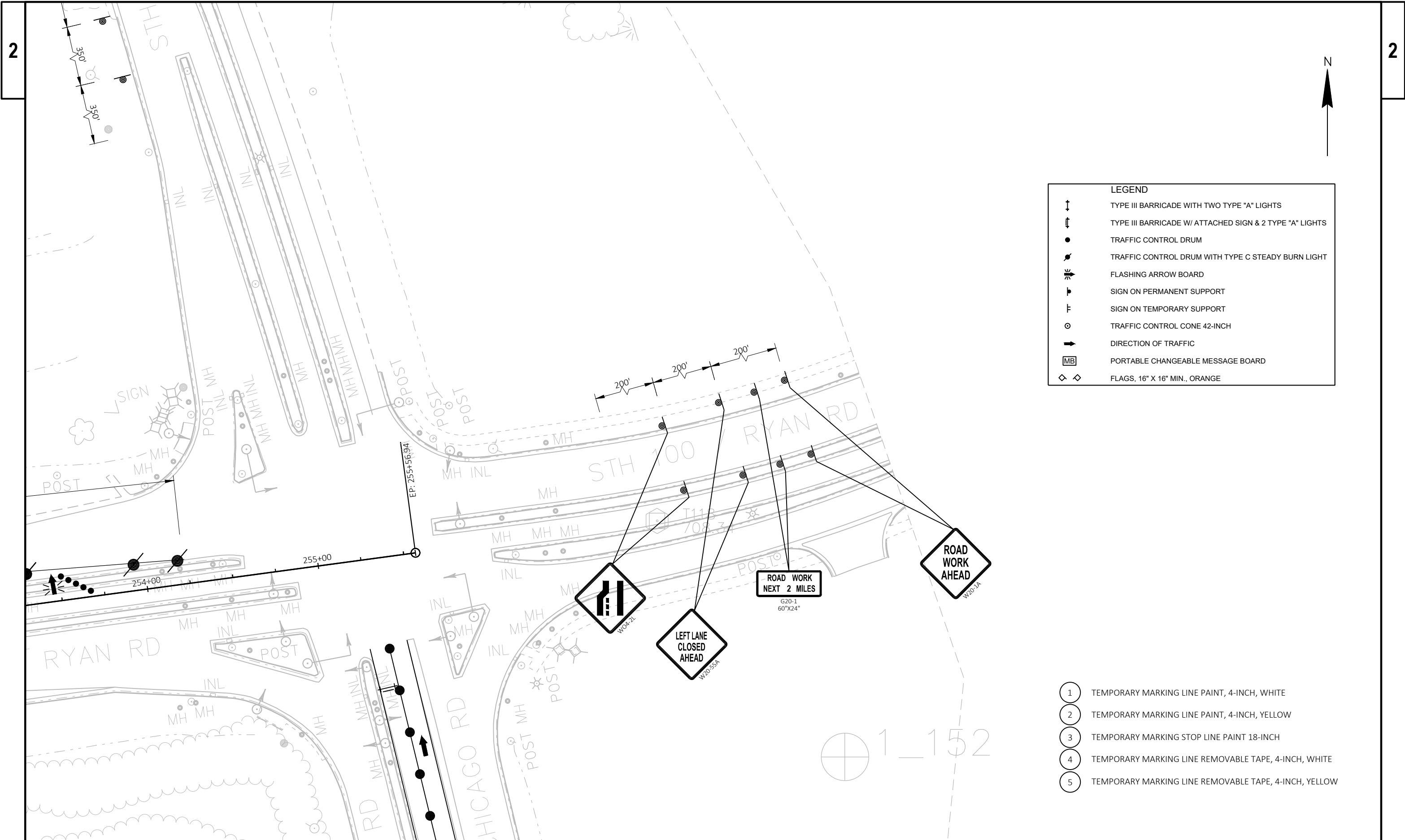
- 1

2

3

4

5
- TEMPORARY MARKING LINE PAINT, 4-INCH, WHITE
- TEMPORARY MARKING LINE PAINT, 4-INCH, YELLOW
- TEMPORARY MARKING STOP LINE PAINT 18-INCH
- TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, WHITE
- TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, YELLOW



LEGEND	
	TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
	TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL CONE 42-INCH
	DIRECTION OF TRAFFIC
	PORTABLE CHANGEABLE MESSAGE BOARD
	FLAGS, 16" X 16" MIN., ORANGE

- 1

TEMPORARY MARKING LINE PAINT, 4-INCH, WHITE
- 2

TEMPORARY MARKING LINE PAINT, 4-INCH, YELLOW
- 3

TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 4

TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, WHITE
- 5

TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, YELLOW

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- 5 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, YELLOW

LEGEND

↑

TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS

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TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS

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TRAFFIC CONTROL DRUM

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TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

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FLASHING ARROW BOARD

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SIGN ON PERMANENT SUPPORT

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SIGN ON TEMPORARY SUPPORT

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TRAFFIC CONTROL CONE 42-INCH

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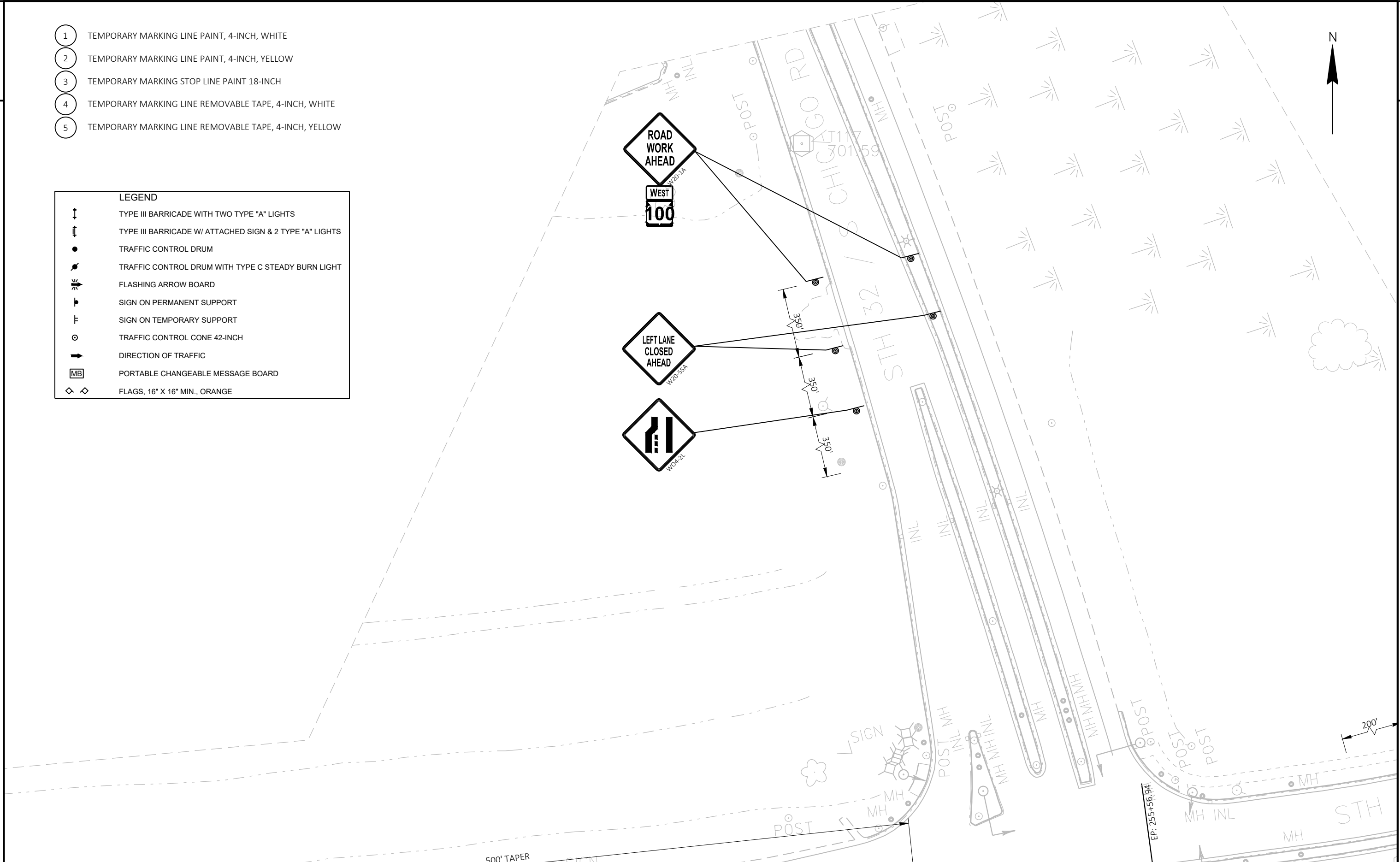
DIRECTION OF TRAFFIC

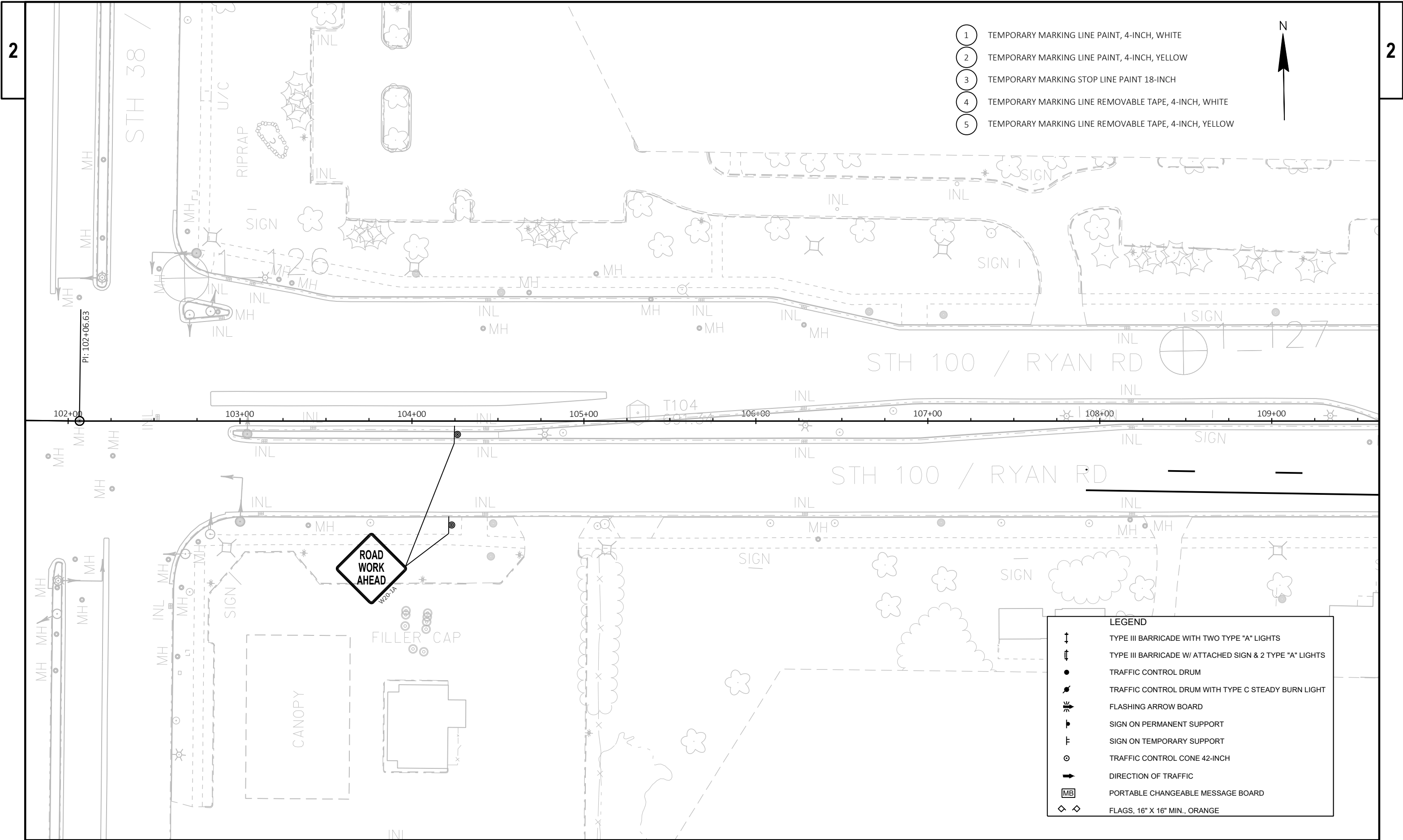
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PORTABLE CHANGEABLE MESSAGE BOARD

◇ ◇

FLAGS, 16" X 16" MIN., ORANGE

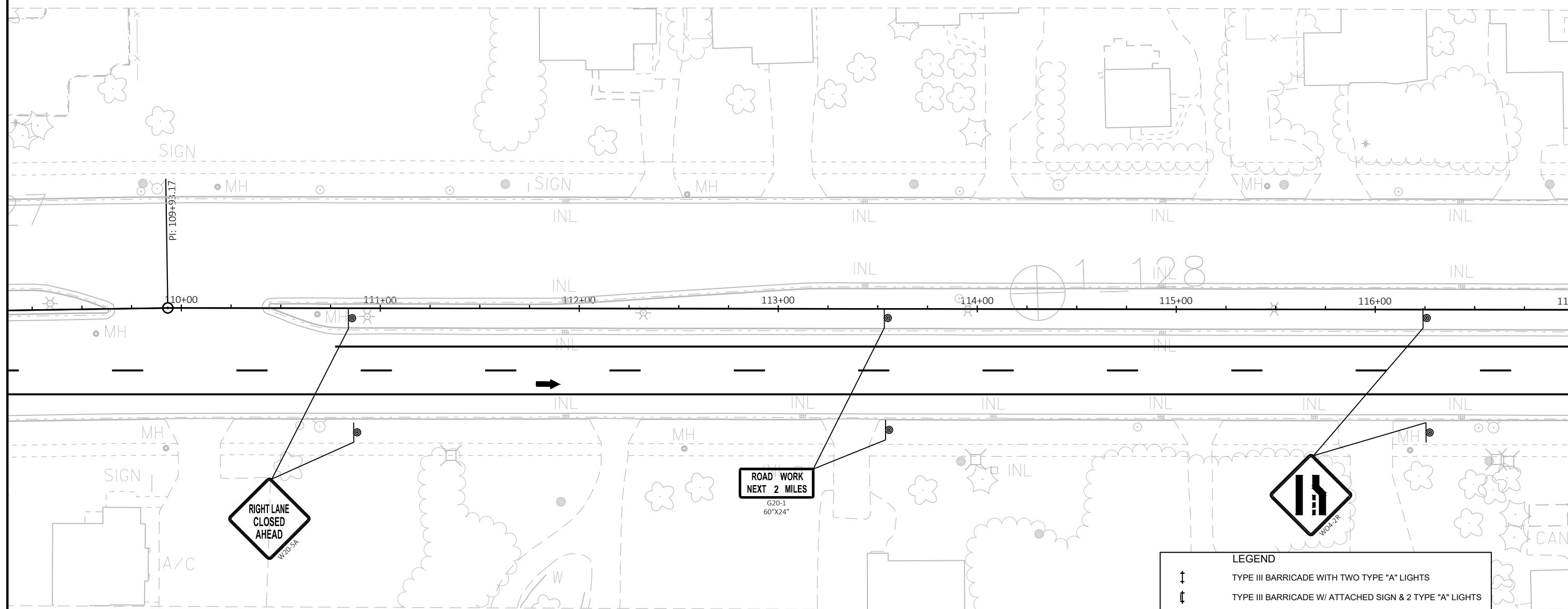




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LEGEND	
	TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
	TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL CONE 42-INCH
	DIRECTION OF TRAFFIC
	PORTABLE CHANGEABLE MESSAGE BOARD
	FLAGS, 16" X 16" MIN., ORANGE

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LEGEND	
	TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
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	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL CONE 42-INCH
	DIRECTION OF TRAFFIC
	PORTABLE CHANGEABLE MESSAGE BOARD
	FLAGS, 16" X 16" MIN., ORANGE

PROJECT NO: 2040-03-75

HWY: STH 100

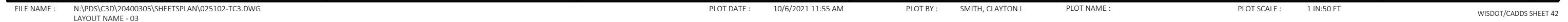
COUNTY: MILWAUKEE

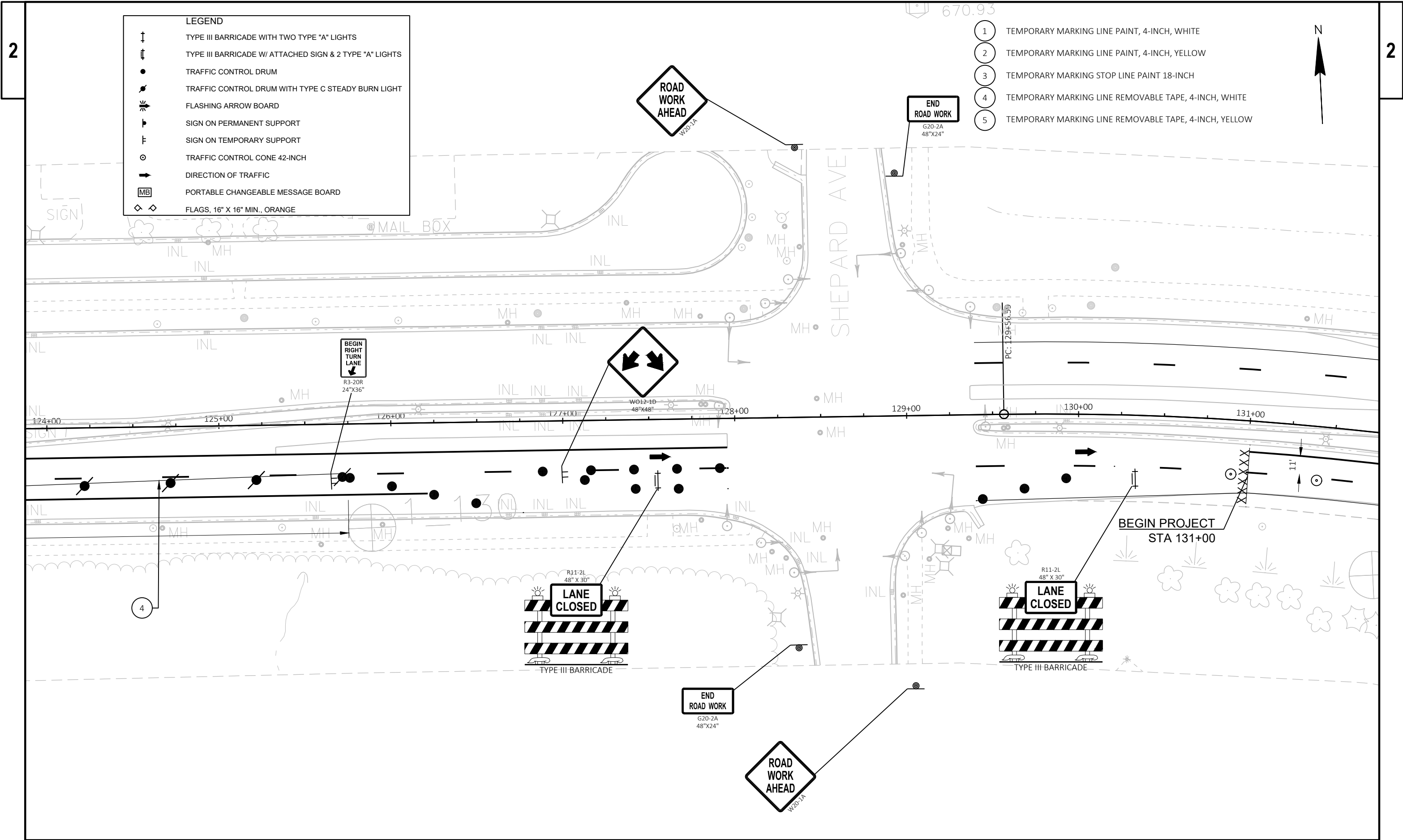
TRAFFIC CONTROL - STAGE 3

SHEET

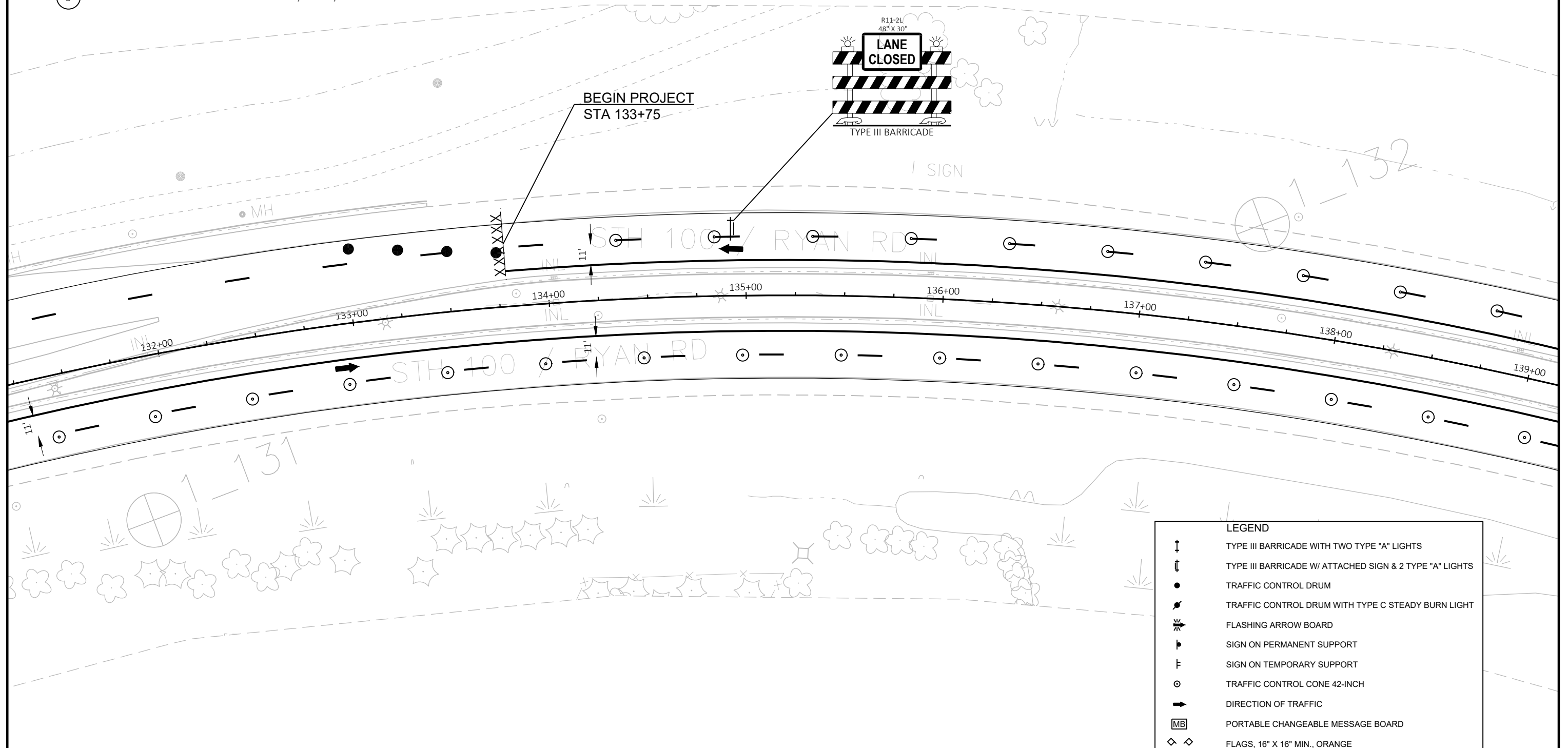
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PROJECT NO: 2040-03-75

HWY: STH 100

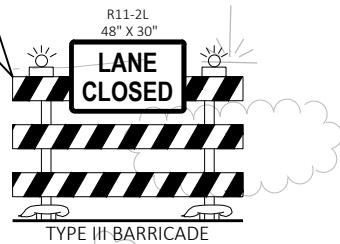
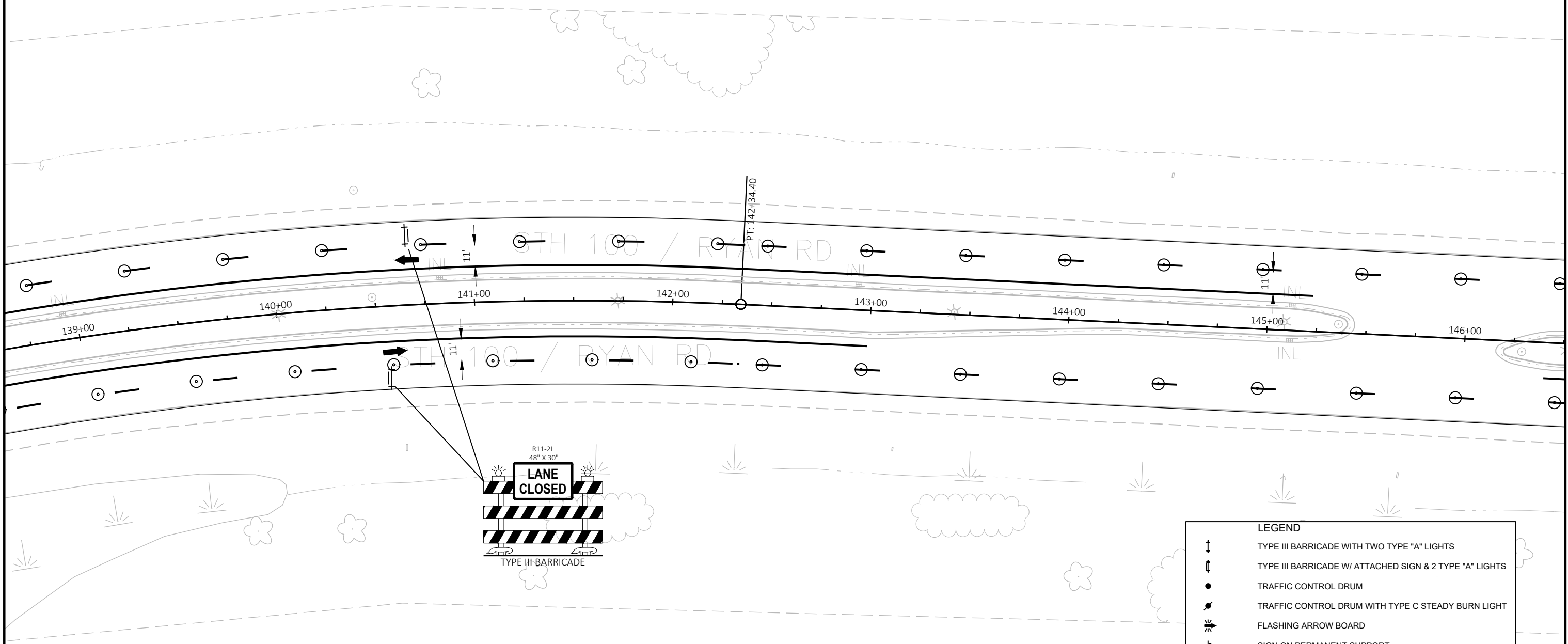
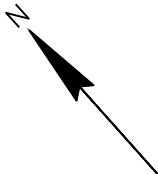
COUNTY: MILWAUKEE

TRAFFIC CONTROL - STAGE 3

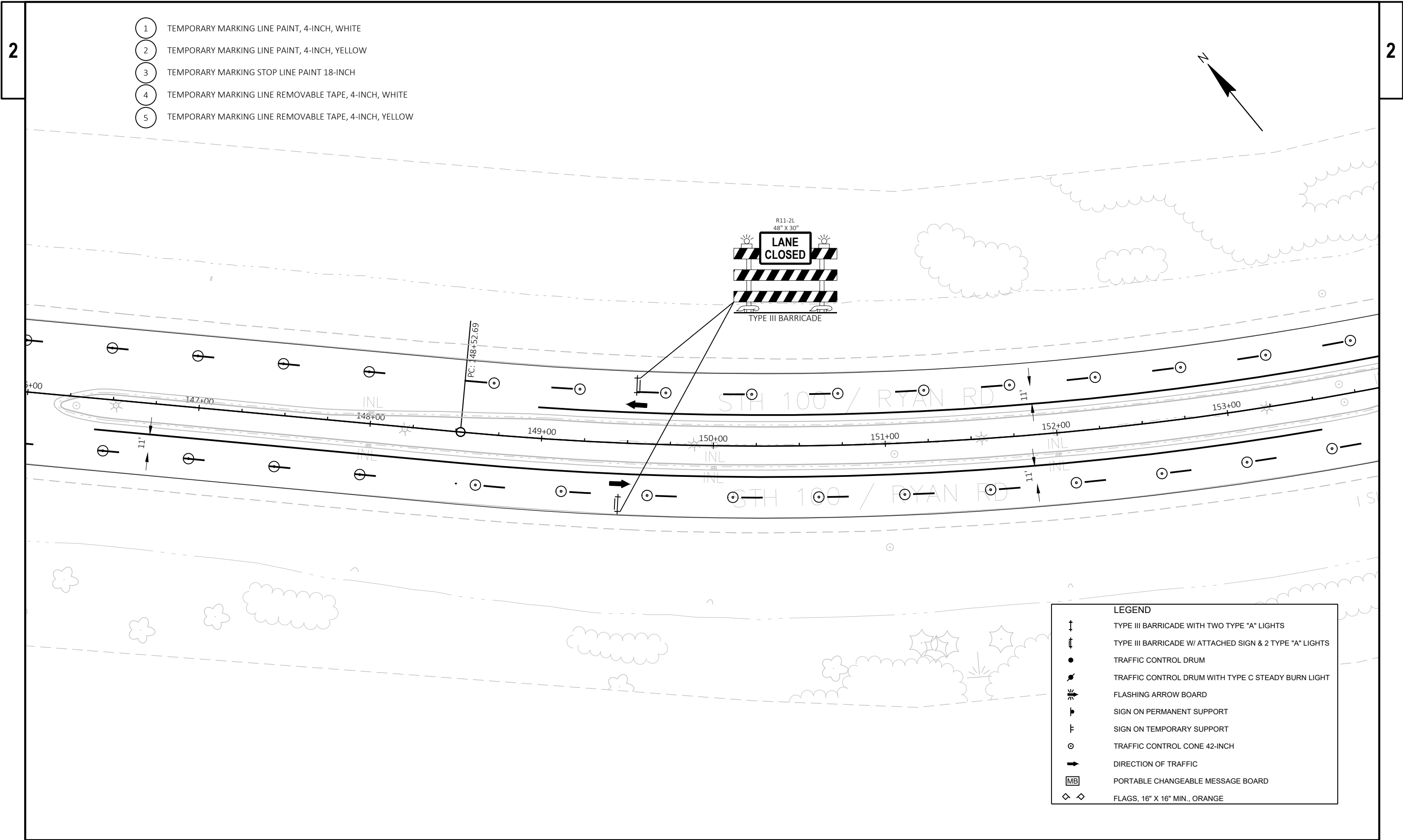
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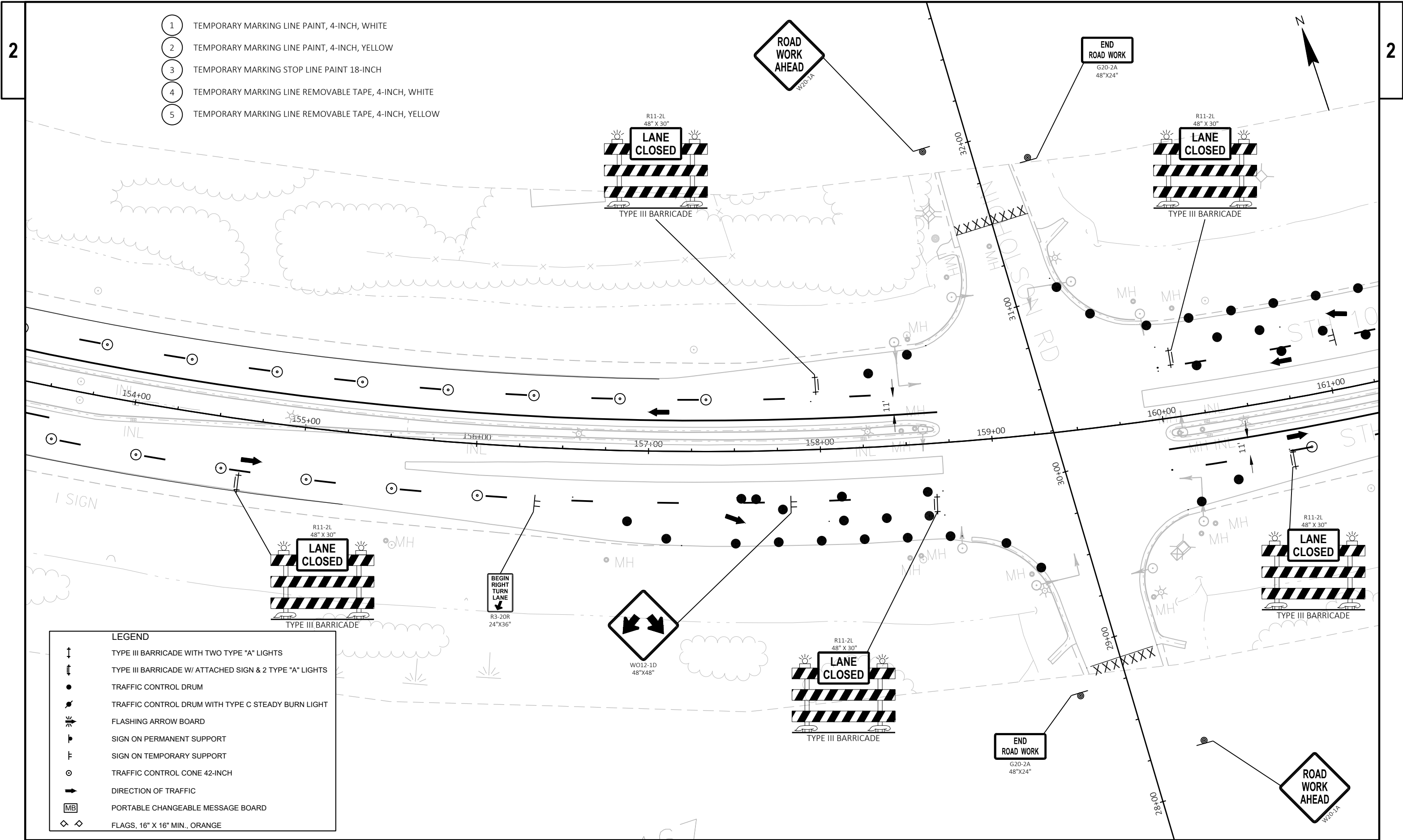
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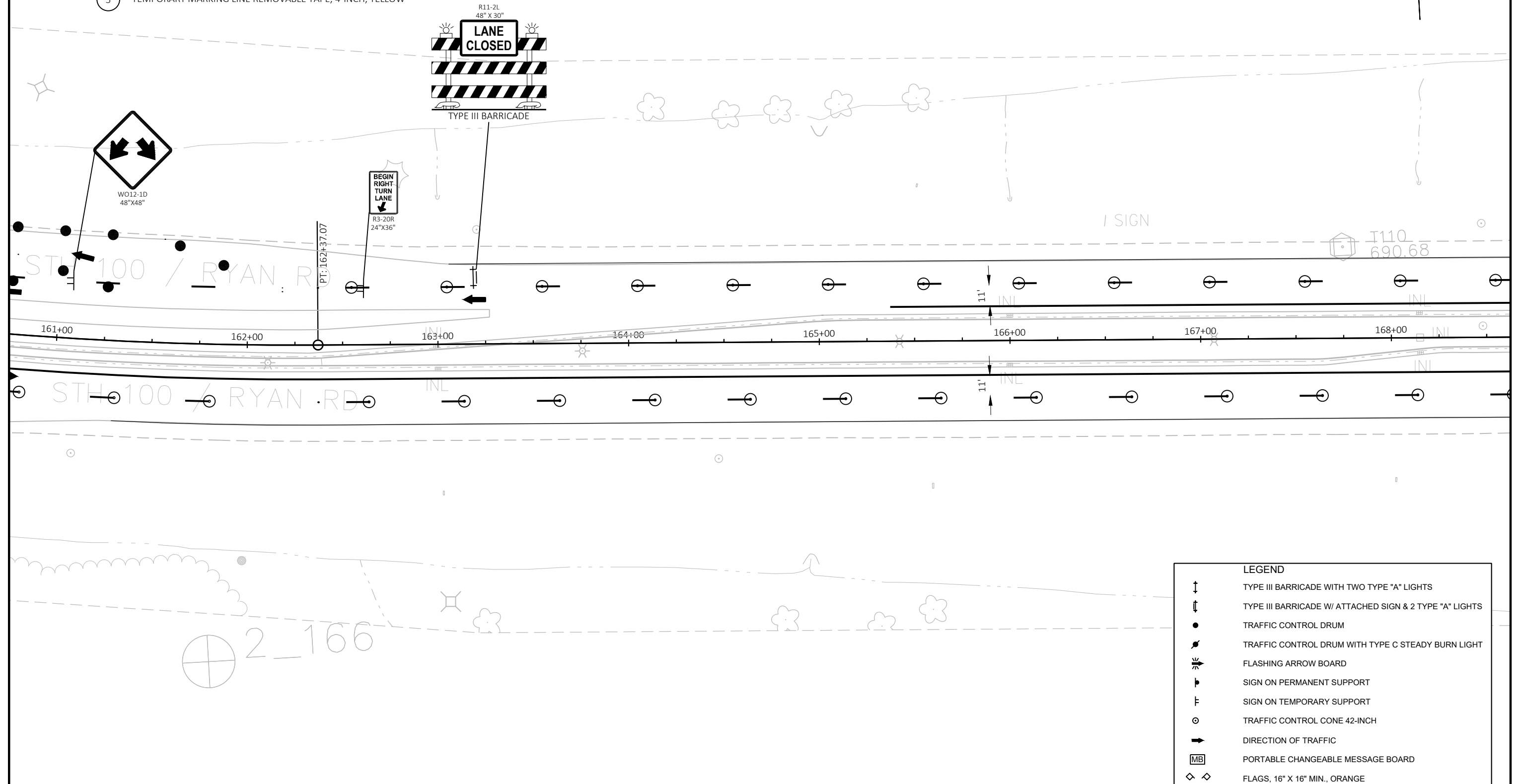


LEGEND	
	TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
	TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL CONE 42-INCH
	DIRECTION OF TRAFFIC
	PORTABLE CHANGEABLE MESSAGE BOARD
	FLAGS, 16" X 16" MIN., ORANGE





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LEGEND	
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	SIGN ON PERMANENT SUPPORT
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	TRAFFIC CONTROL CONE 42-INCH
	DIRECTION OF TRAFFIC
	PORTABLE CHANGEABLE MESSAGE BOARD
	FLAGS, 16" X 16" MIN., ORANGE

PROJECT NO: 2040-03-75

HWY: STH 100

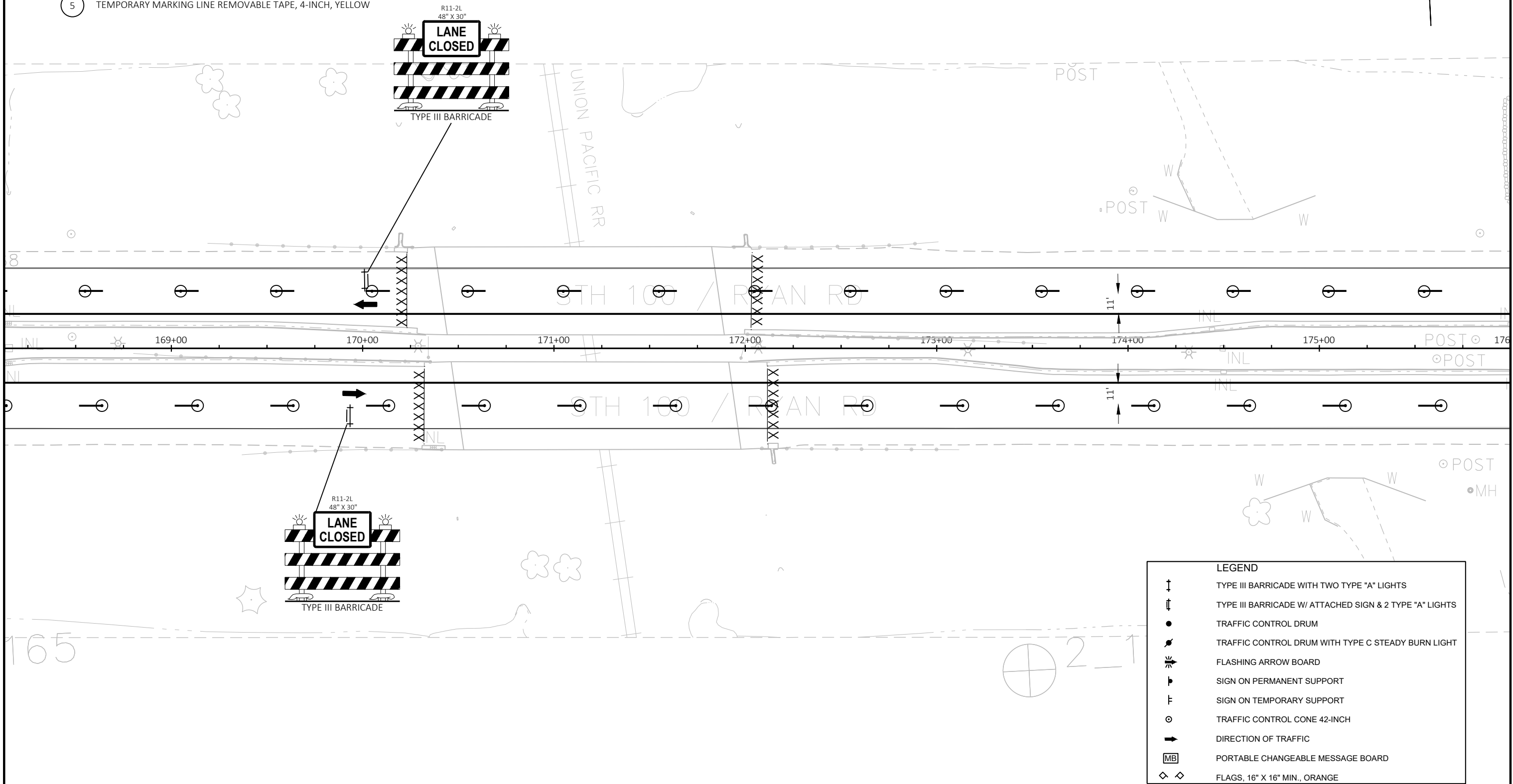
COUNTY: MILWAUKEE

TRAFFIC CONTROL - STAGE 3

SHEET

E

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LEGEND

↑

TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS

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TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS

●

TRAFFIC CONTROL DRUM

⦿

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

⚡

FLASHING ARROW BOARD

▮

SIGN ON PERMANENT SUPPORT

⌞

SIGN ON TEMPORARY SUPPORT

○

TRAFFIC CONTROL CONE 42-INCH

➡

DIRECTION OF TRAFFIC

MB

PORTABLE CHANGEABLE MESSAGE BOARD

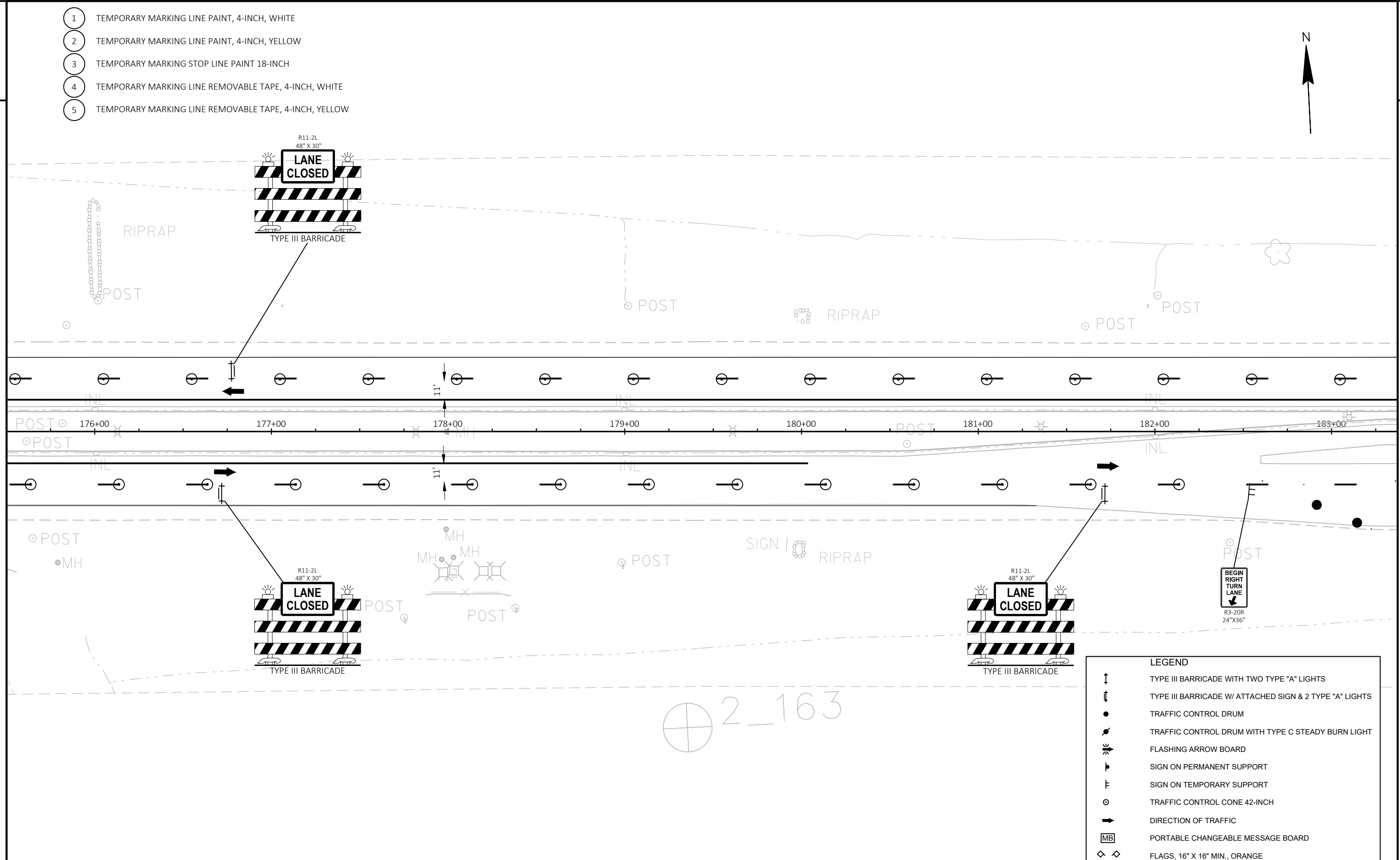
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FLAGS, 16" X 16" MIN., ORANGE

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- | | |
|---|---|
| 1 | TEMPORARY MARKING LINE PAINT, 4-INCH, WHITE |
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PROJECT NO:	2040-03-75
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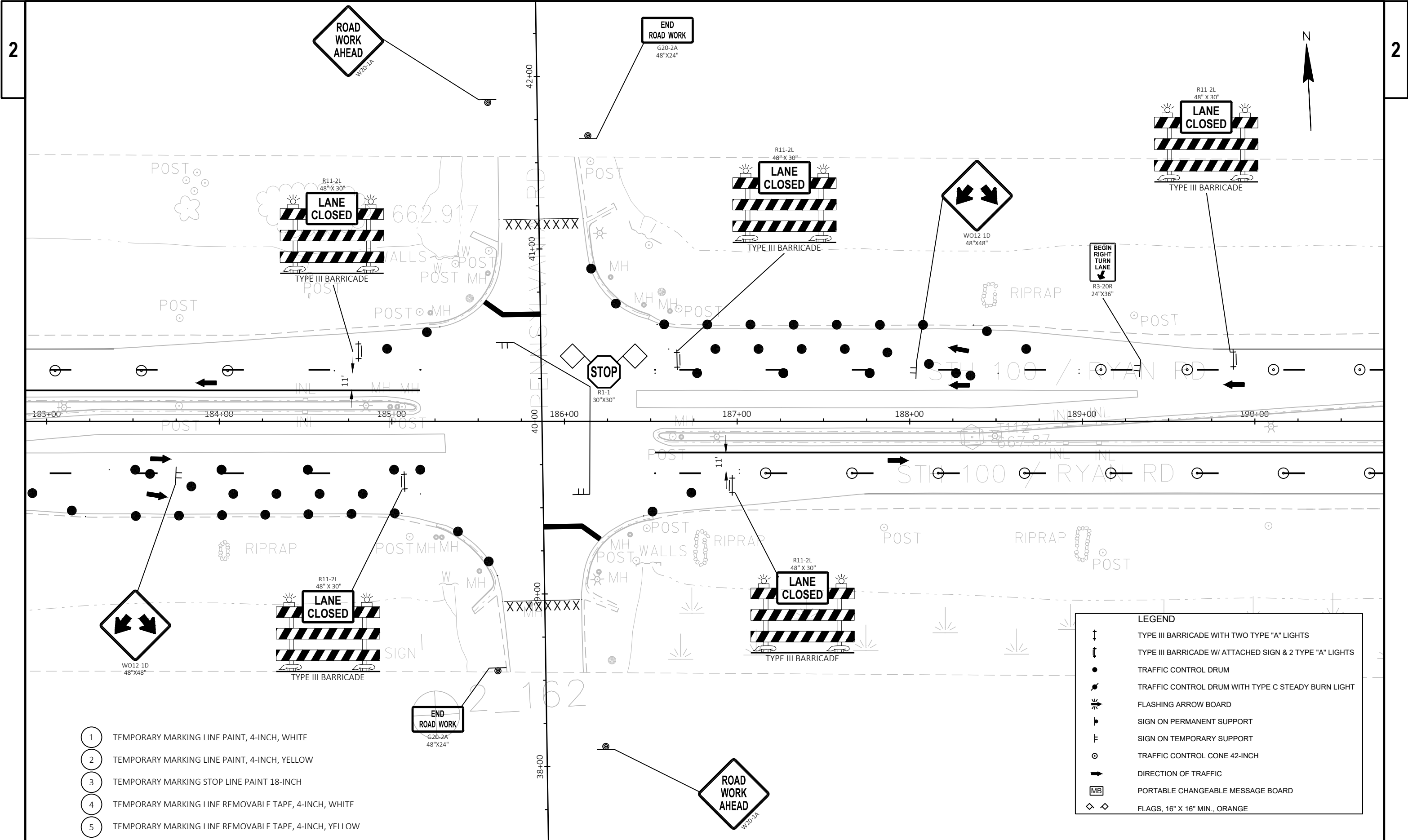
HWY: STH 100

COUNTY: MILWAUKEE

TRAFFIC CONTROL - STAGE 3

SHEET

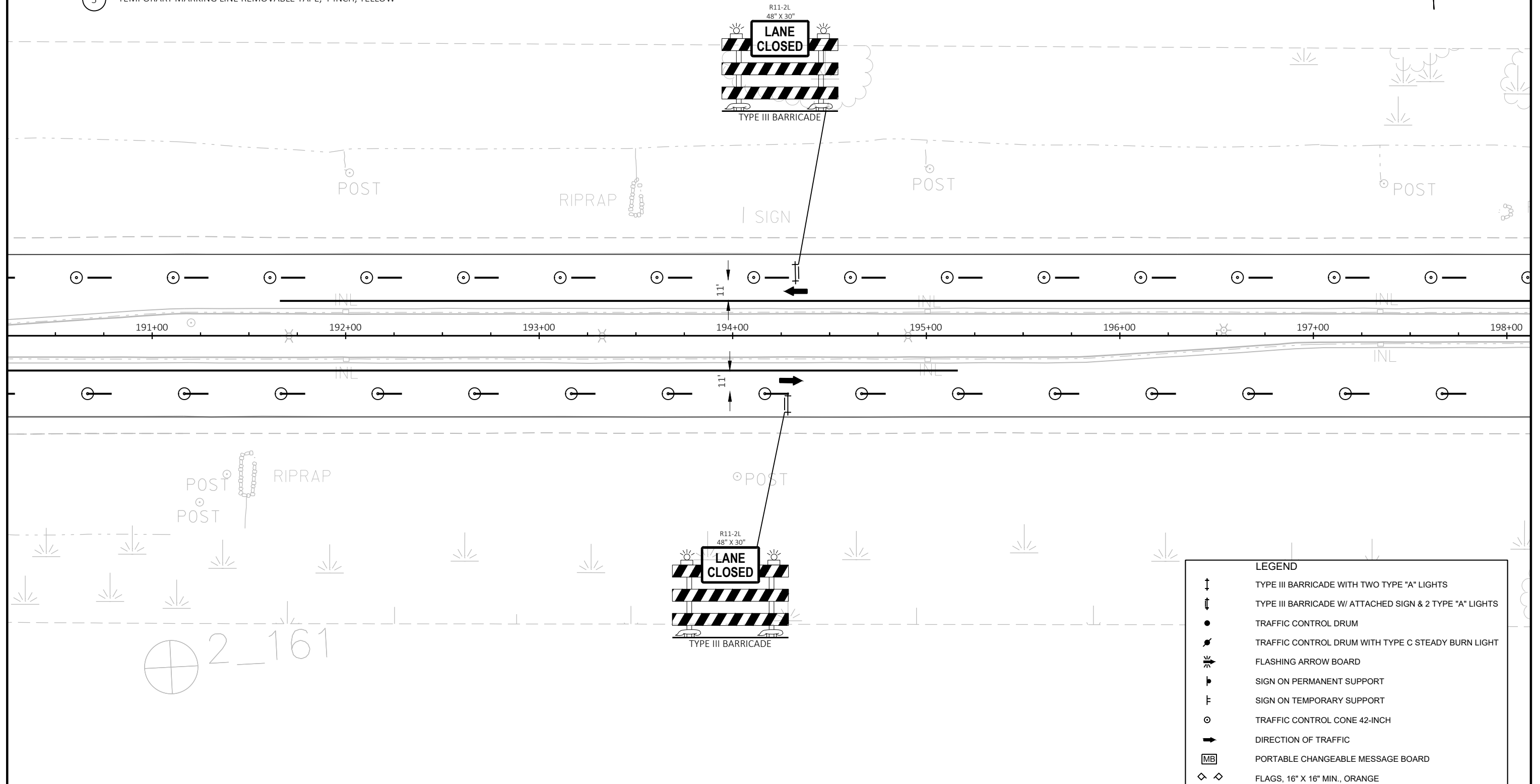
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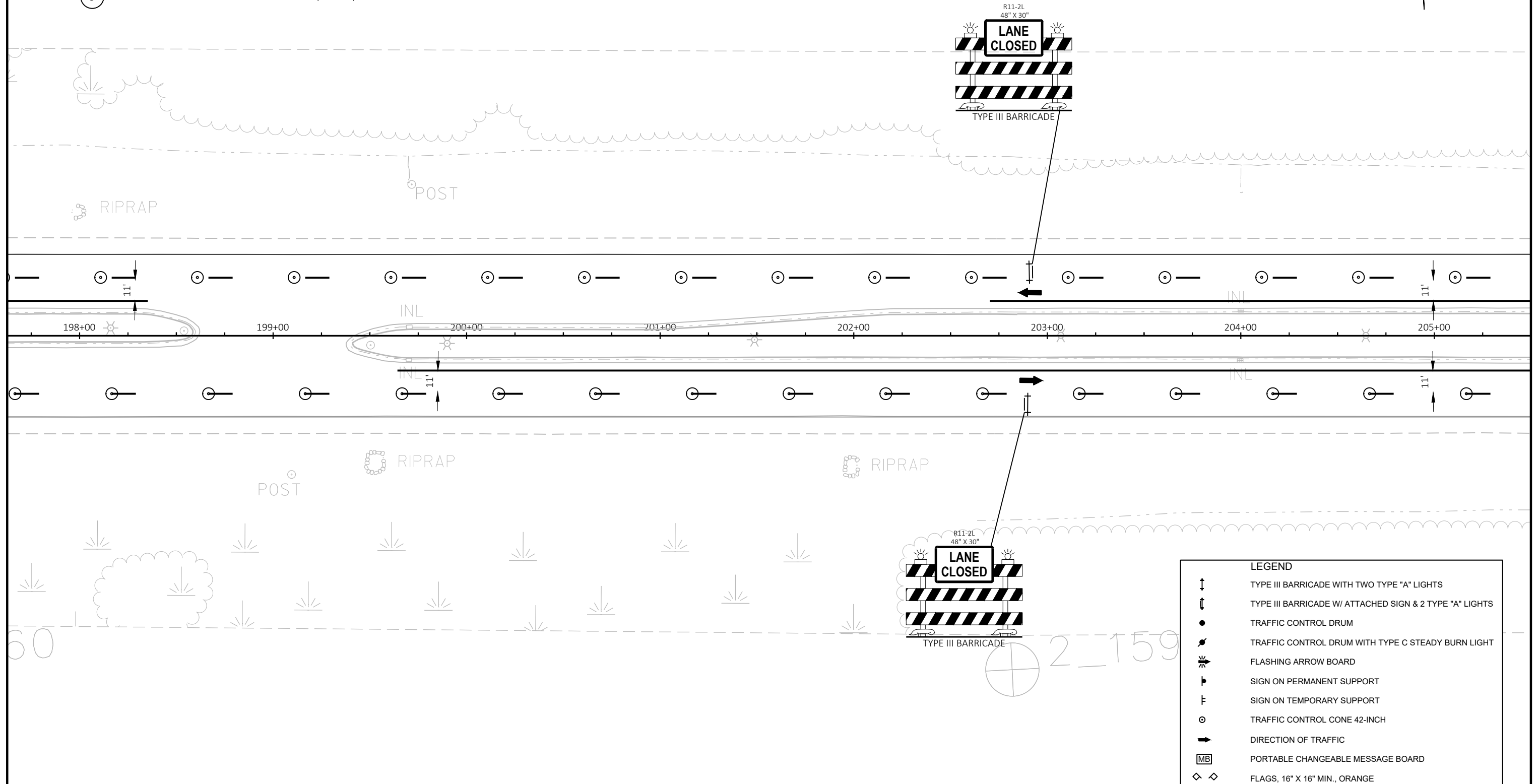
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LEGEND	
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	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL CONE 42-INCH
	DIRECTION OF TRAFFIC
	PORTABLE CHANGEABLE MESSAGE BOARD
	FLAGS, 16" X 16" MIN., ORANGE

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PROJECT NO: 2040-03-75

HWY: STH 100

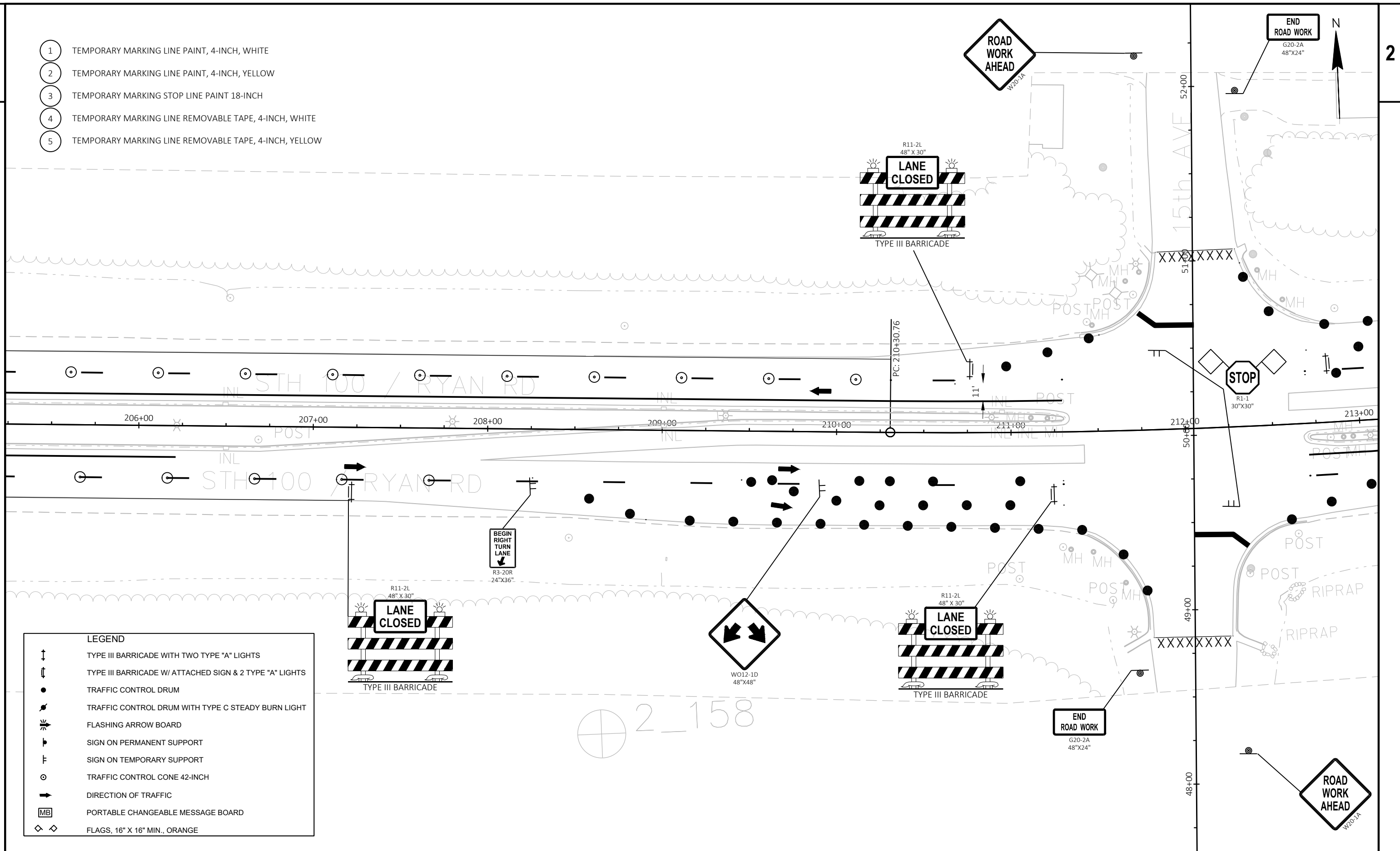
COUNTY: MILWAUKEE

TRAFFIC CONTROL - STAGE 3

SHEET

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PROJECT NO: 2040-03-75

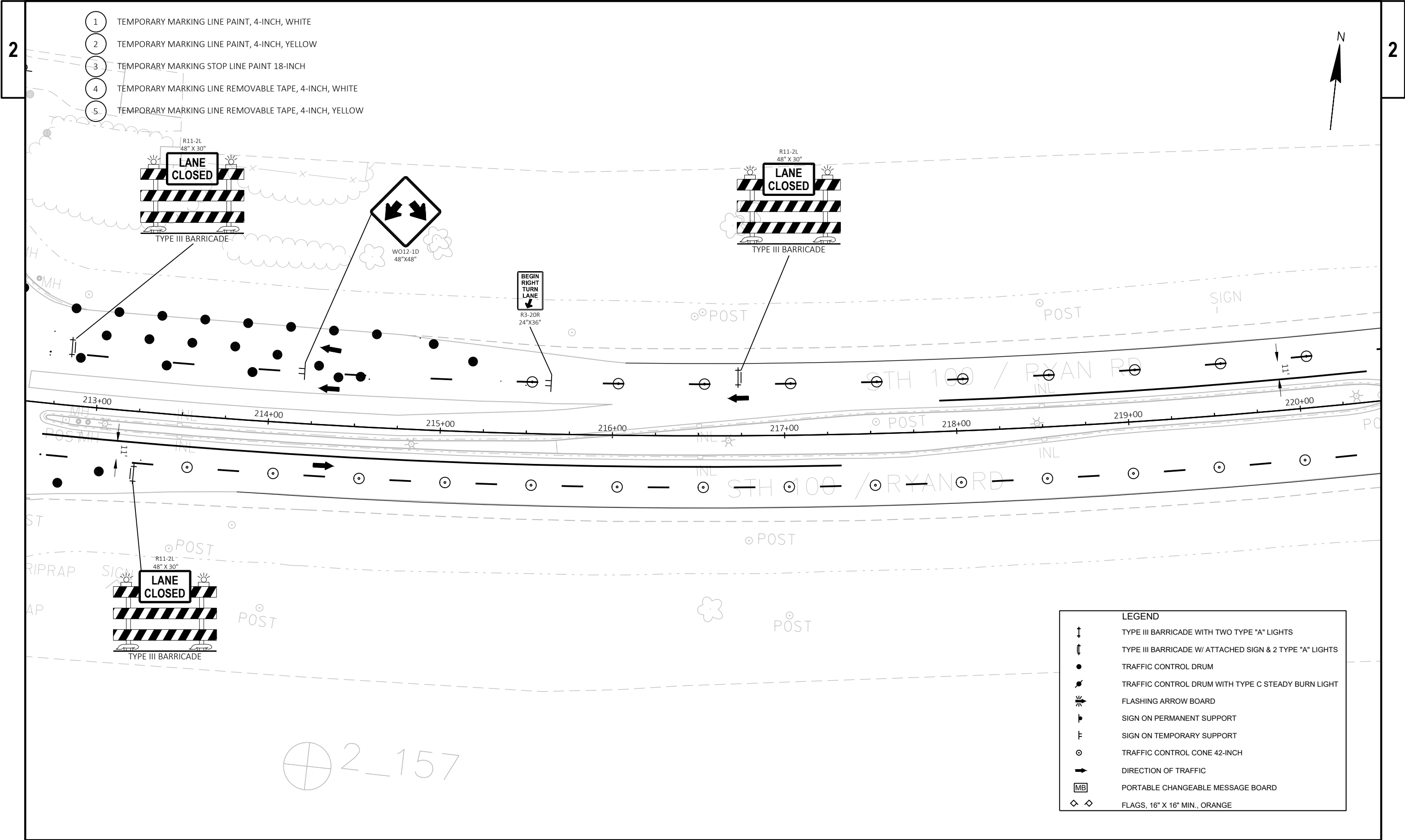
HWY: STH 100

COUNTY: MILWAUKEE

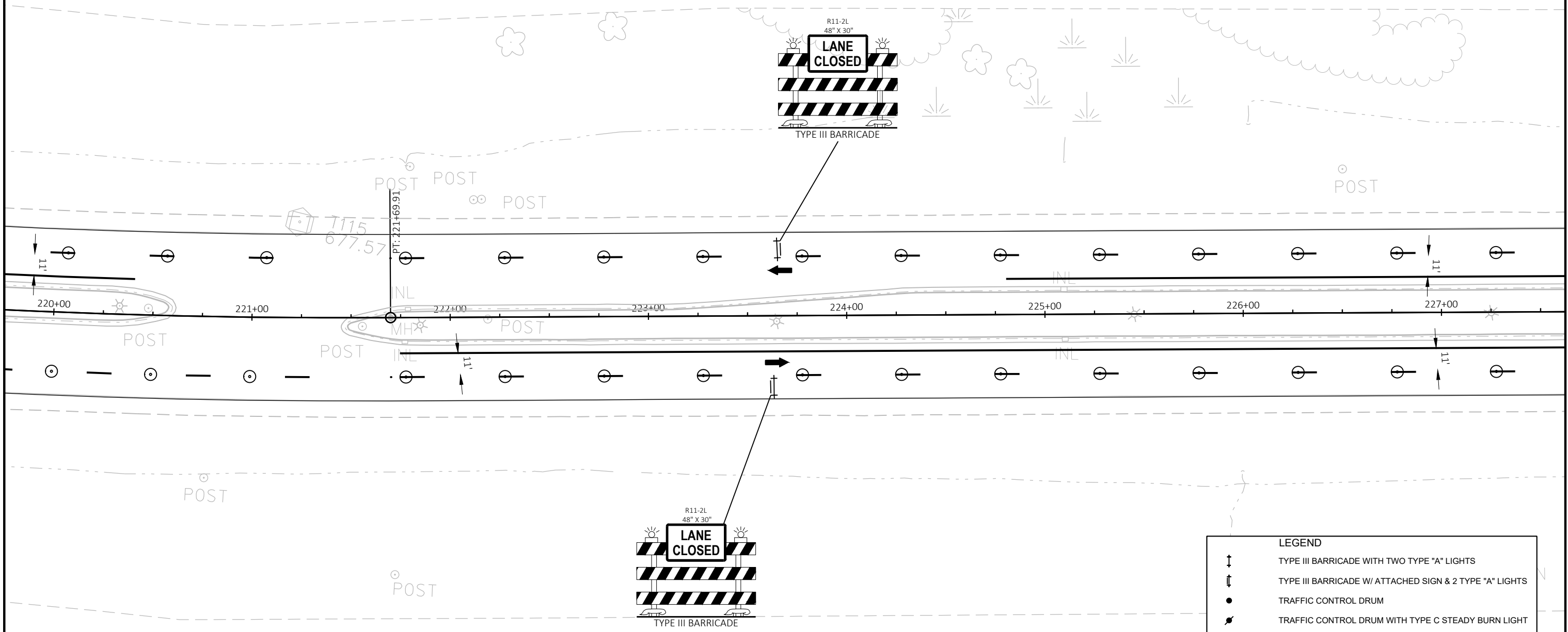
TRAFFIC CONTROL - STAGE 3

SHEET

E

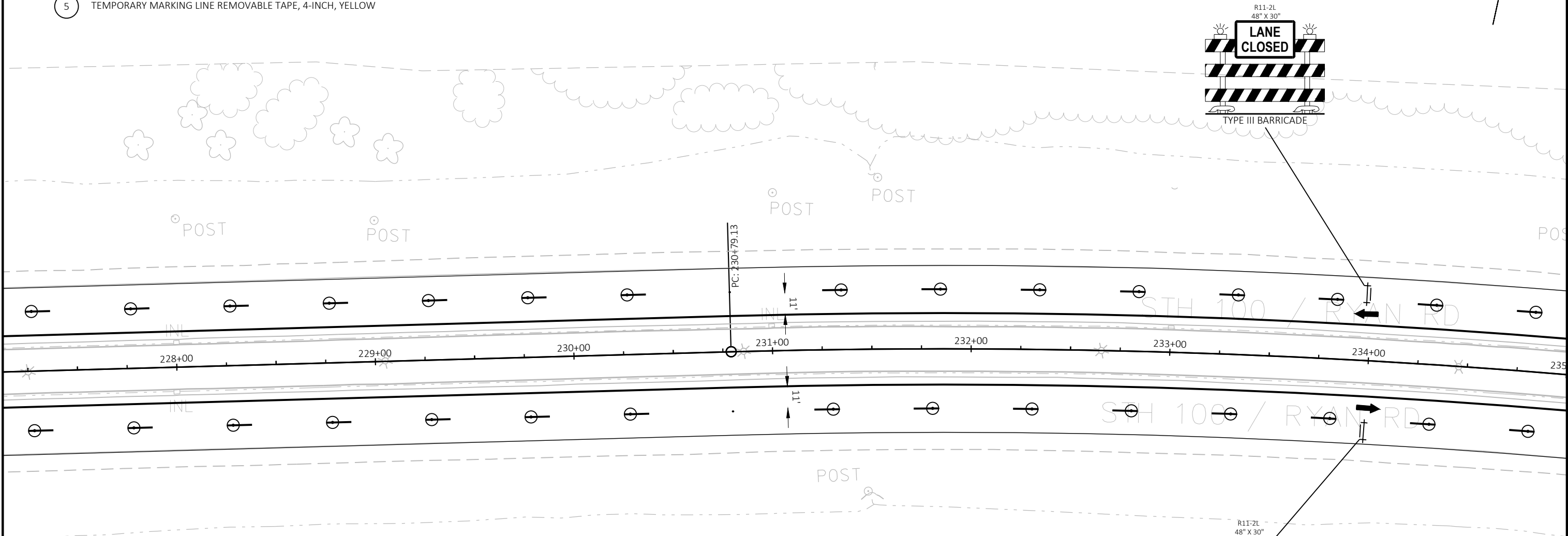


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LEGEND	
	TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
	TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL CONE 42-INCH
	DIRECTION OF TRAFFIC
	PORTABLE CHANGEABLE MESSAGE BOARD
	FLAGS, 16" X 16" MIN., ORANGE

- 1 TEMPORARY MARKING LINE PAINT, 4-INCH, WHITE
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LEGEND

TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS

TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

FLASHING ARROW BOARD

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

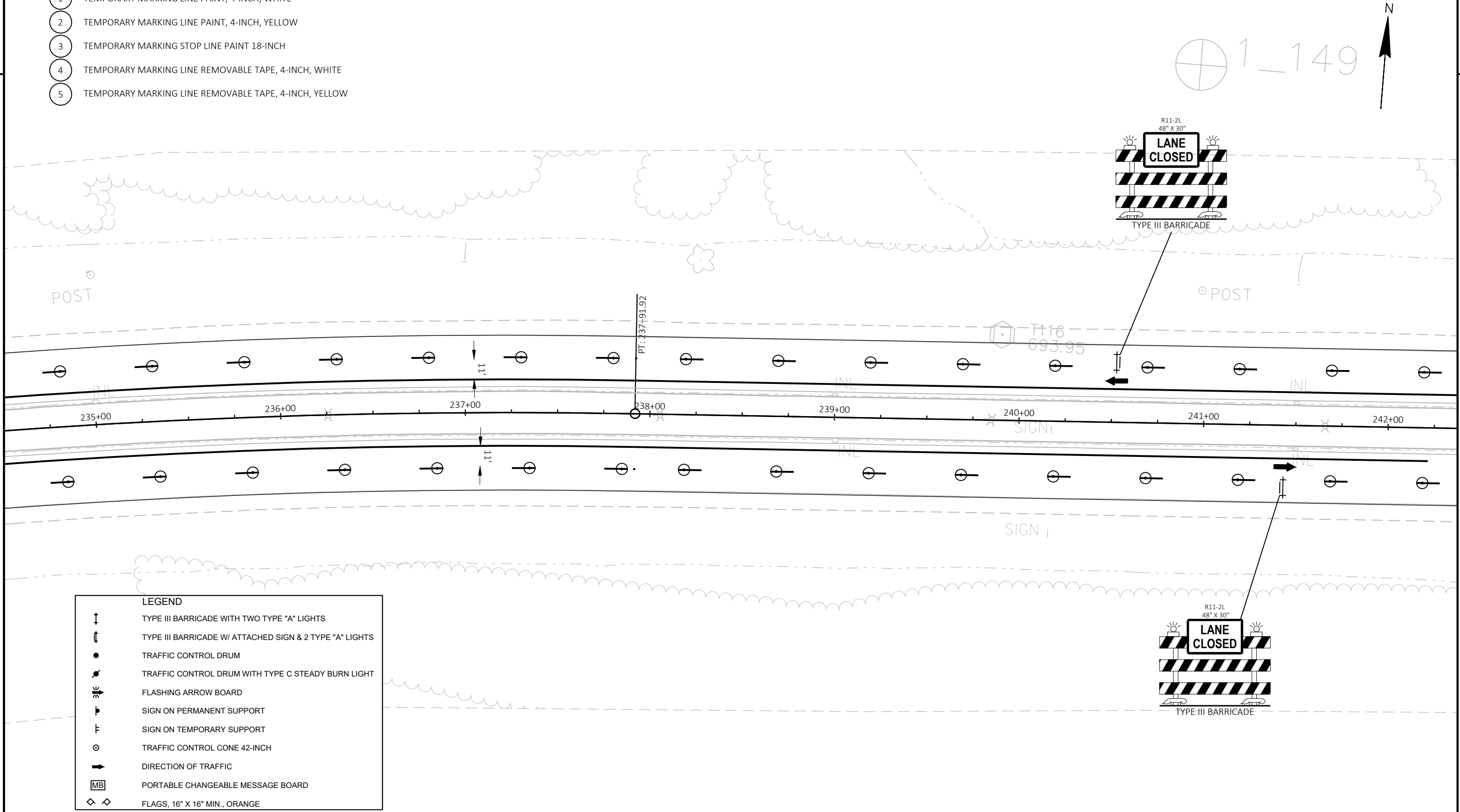
TRAFFIC CONTROL CONE 42-INCH

DIRECTION OF TRAFFIC

PORTABLE CHANGEABLE MESSAGE BOARD

FLAGS, 16" X 16" MIN., ORANGE

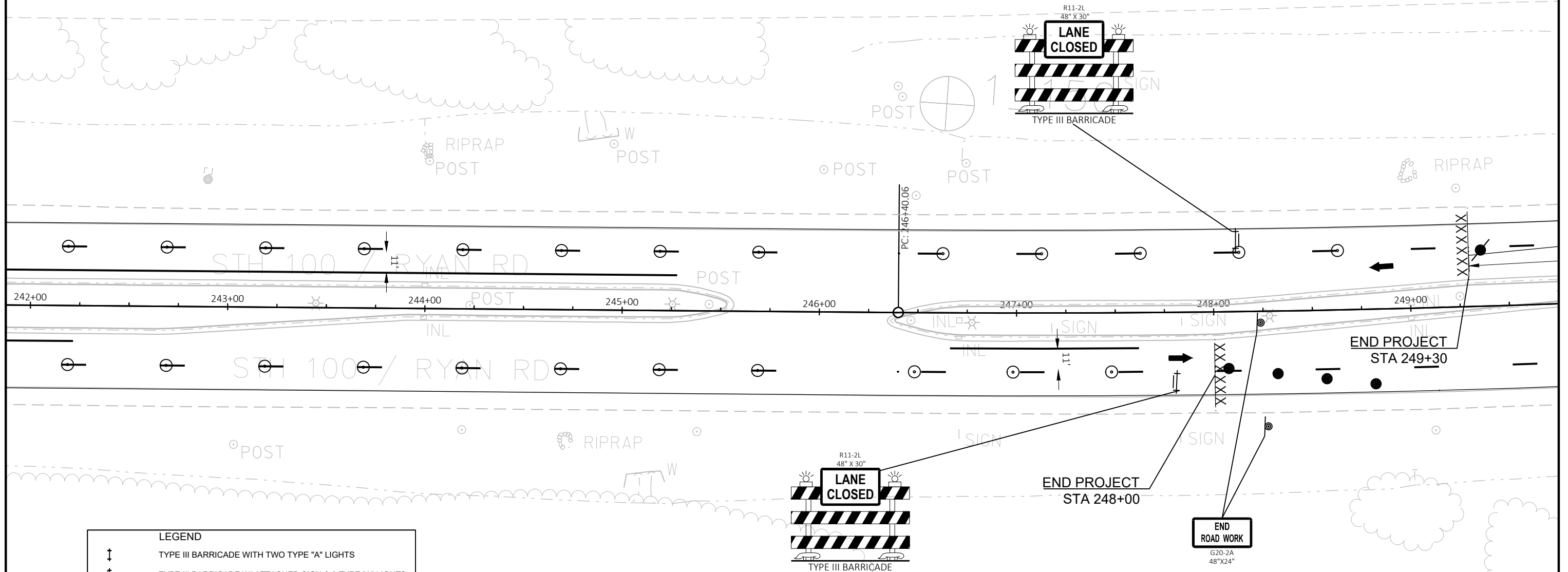
- 1 TEMPORARY MARKING LINE PAINT, 4-INCH, WHITE
- 2 TEMPORARY MARKING LINE PAINT, 4-INCH, YELLOW
- 3 TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, WHITE
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, YELLOW



LEGEND

- ↑ TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- ↑ TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- ➔ FLASHING ARROW BOARD
- └ SIGN ON PERMANENT SUPPORT
- └ SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONE 42-INCH
- ➔ DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- ◇ ◇ FLAGS, 16" X 16" MIN., ORANGE

- 1 TEMPORARY MARKING LINE PAINT, 4-INCH, WHITE
- 2 TEMPORARY MARKING LINE PAINT, 4-INCH, YELLOW
- 3 TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, WHITE
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LEGEND

- ↑ TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
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- ♣ SIGN ON PERMANENT SUPPORT
- ⚡ SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONE 42-INCH
- ➡ DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- ◇ ◇ FLAGS, 16" X 16" MIN., ORANGE

PROJECT NO: 2040-03-75

HWY: STH 100

COUNTY: MILWAUKEE

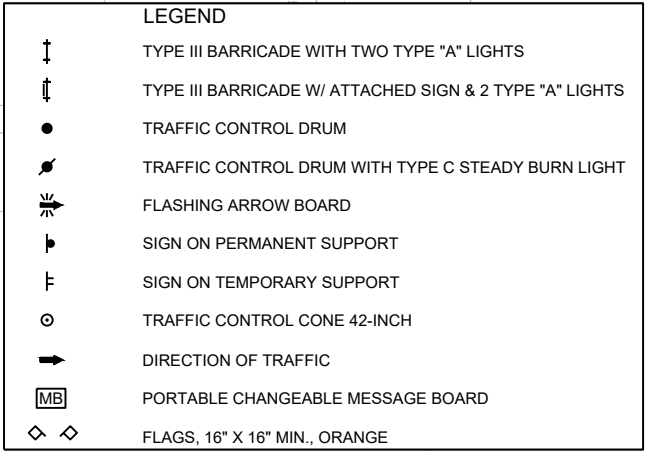
TRAFFIC CONTROL - STAGE 3

SHEET

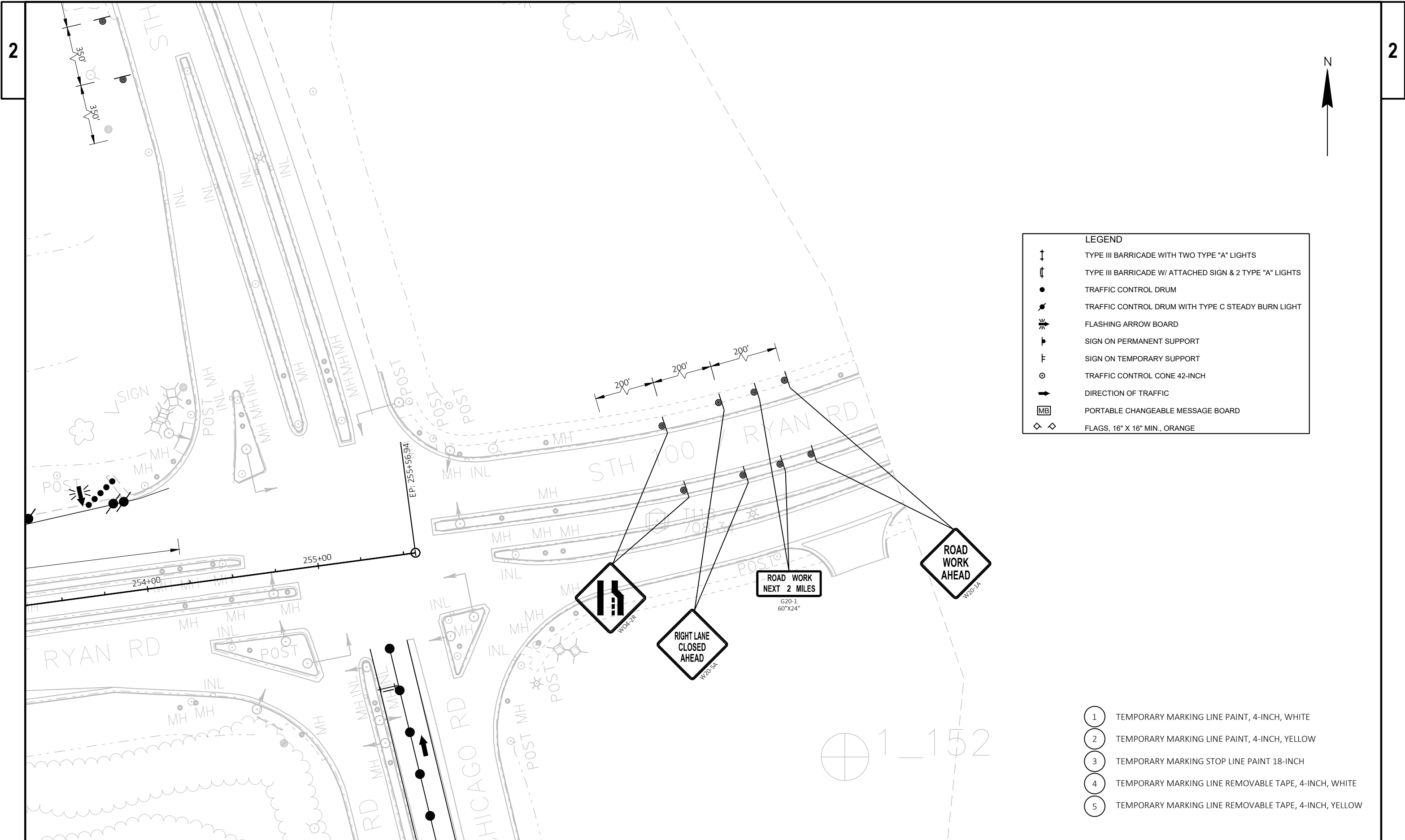
E

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- | | | | | | | |
|-------------|------------|--------------|-------------------|---------------------------|-------|----------|
| PROJECT NO: | 2040-03-75 | HWY: STH 100 | COUNTY: MILWAUKEE | TRAFFIC CONTROL - STAGE 3 | SHEET | E |
|-------------|------------|--------------|-------------------|---------------------------|-------|----------|



- 1 TEMPORARY MARKING LINE PAINT, 4-INCH, WHITE
- 2 TEMPORARY MARKING LINE PAINT, 4-INCH, YELLOW
- 3 TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, WHITE
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH, YELLOW

LEGEND

TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS

TYPE III BARRICADE W/ ATTACHED SIGN & 2 TYPE "A" LIGHTS

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

FLASHING ARROW BOARD

SIGN ON PERMANENT SUPPORT

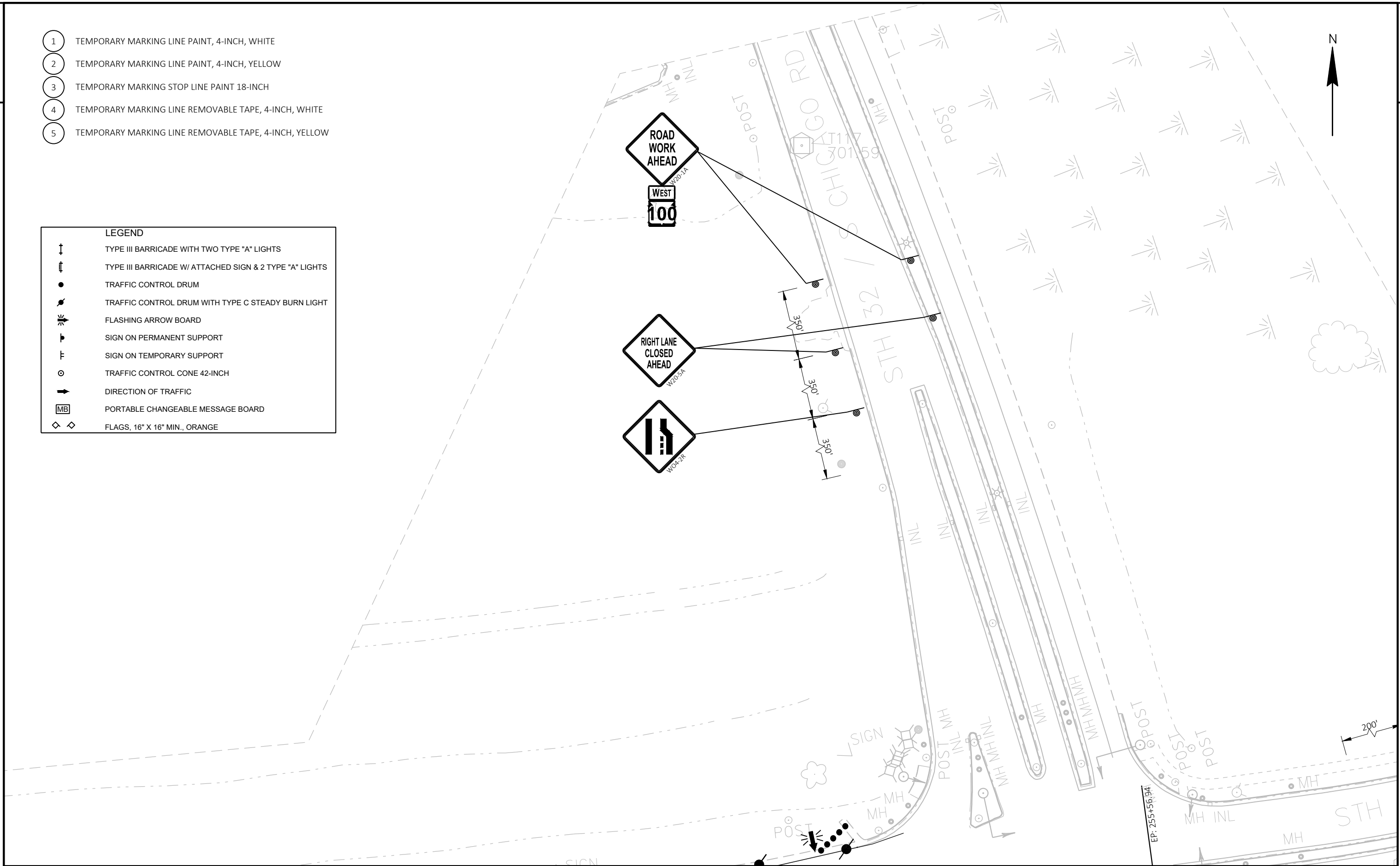
SIGN ON TEMPORARY SUPPORT

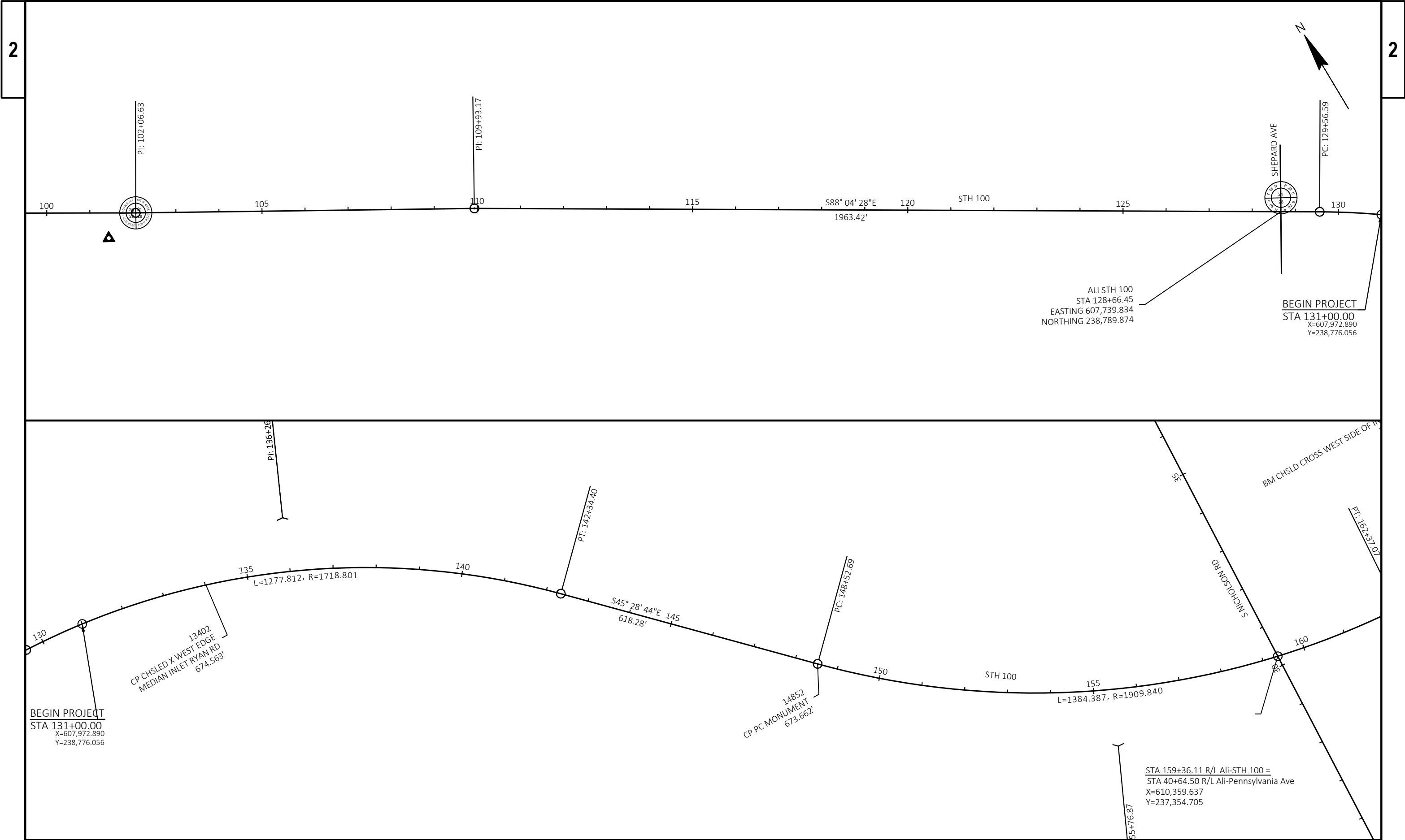
TRAFFIC CONTROL CONE 42-INCH

DIRECTION OF TRAFFIC

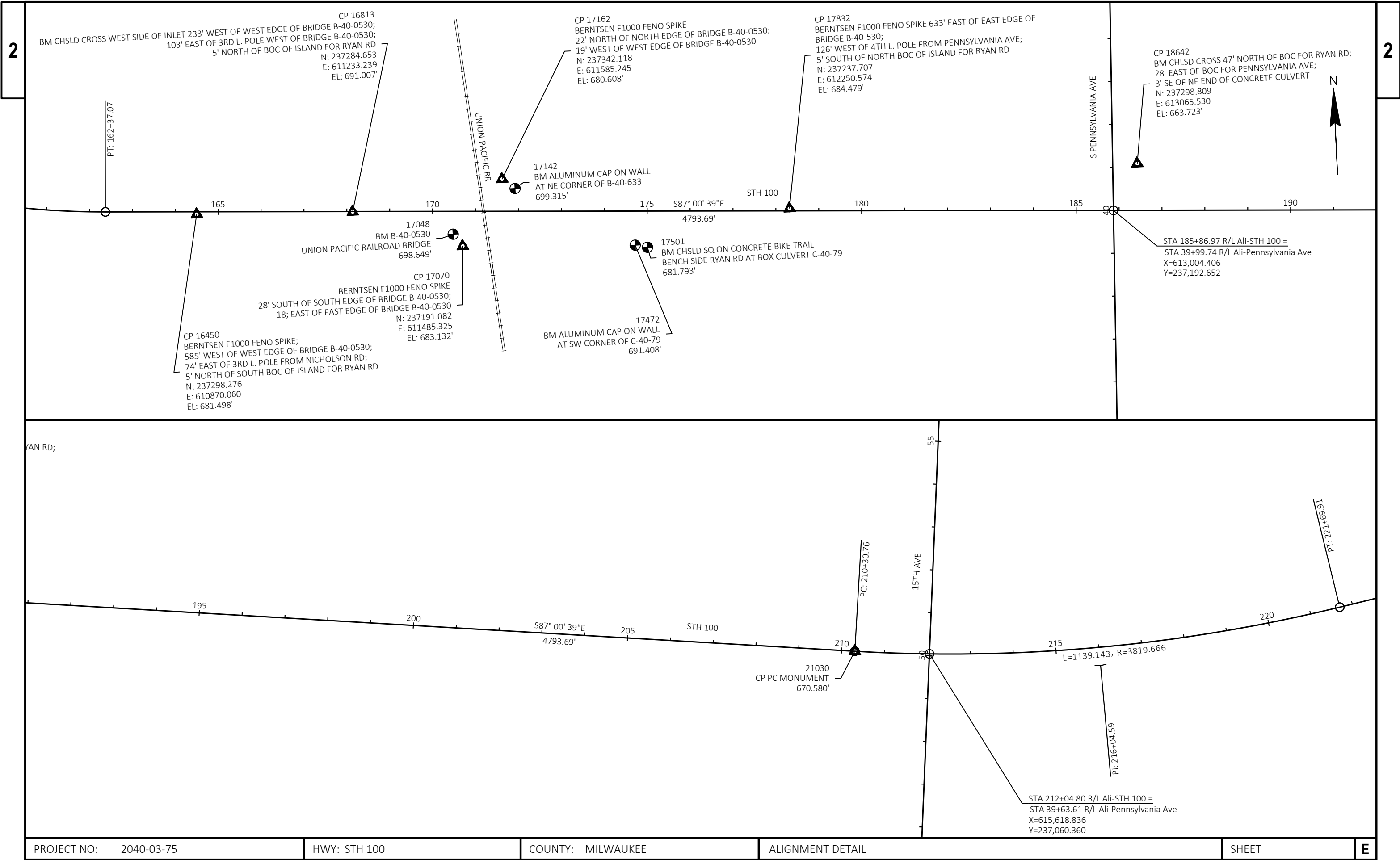
PORTABLE CHANGEABLE MESSAGE BOARD

FLAGS, 16" X 16" MIN., ORANGE

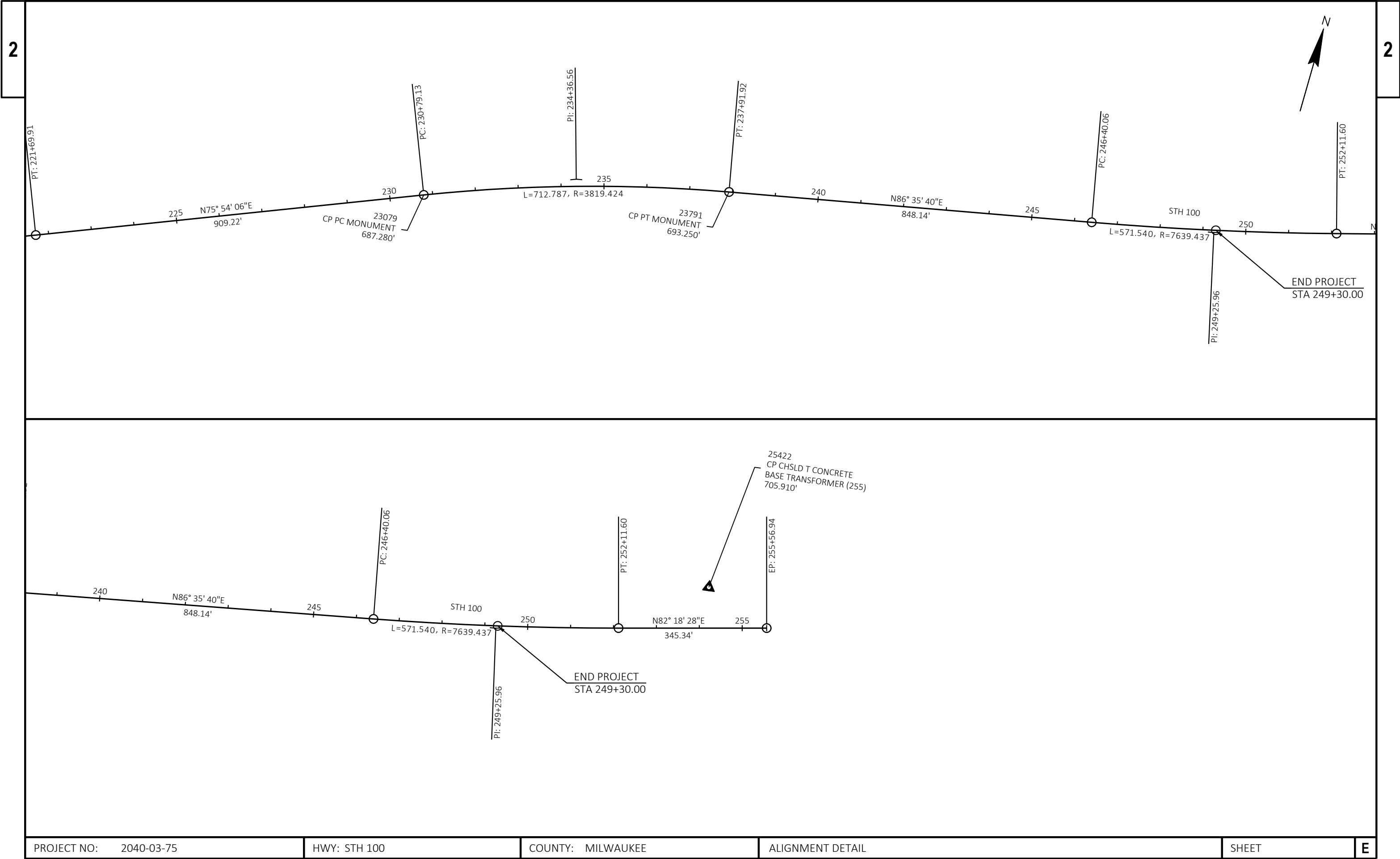




PROJECT NO: 2040-03-75	HWY: STH 100	COUNTY: MILWAUKEE	ALIGNMENT DETAIL	SHEET	E
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PROJECT NO: 2040-03-75	HWY: STH 100	COUNTY: MILWAUKEE	ALIGNMENT DETAIL	SHEET	E
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PROJECT NO: 2040-03-75	HWY: STH 100	COUNTY: MILWAUKEE	ALIGNMENT DETAIL	SHEET	E
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REMOVING ASPHALT					
LOCATION	204.0110 REMOVING ASPHALTIC SURFACE		204.0115 BUTT JOINTS	204.0125 MILLING	
	SY		SY	TON	
STAGE 1					
STH 100 EB					
131+00	-	170+30	110	950	
172+10	-	248+00	110	1,845	
STH 100 WB					
133+75	-	170+23	105	880	
172+03	-	249+30	105	1,875	
STAGE 1 SUB-TOTAL			430	5,550	
STAGE 2					
STH 100 EB					
131+00	-	170+30	105	760	
172+10	-	248+00	105	1,475	
STH 100 WB					
133+75	-	170+23	105	705	
172+03	-	249+30	105	1,500	
NICHOLSON RD INTERSECTION			250	167	
NICHOLSON RD LOOP DETECTOR REPLACEMENTS			460		
PENNSYLVANIA AVE INTERSECTION			280	140	
15TH AVE INTERSECTION			280	143	
STH 100 LT TURN LANES					
144+00				16	
148+00				21	
155+00				66	
163+00				60	
182+00				55	
190+00				54	
196+00				20	
202+00				21	
208+00				56	
217+00				62	
218+00				20	
224+00				22	
243+00				21	
249+00				22	
STH 100 MEDIAN OPENINGS					
145+75				31	
199+00				32	
221+00				36	
246+00				35	
STAGE 2 SUB-TOTAL			1,230	5,540	
TOTAL			460	1,660	11,090

SAWING	
690.0150 SAWING ASPHALT	
LOCATION	LF
STH 100 EB	
131+00	36
155+00	68
156+40	68
158+10	132
170+32	36
172+11	36
248+00	36
STH 100 WB	
133+75	36
160+05	131
162+20	68
163+75	68
170+23	36
172+03	36
249+30	36
NICHOLSON RD	
28+86	46
28+90	160
31+60	46
31+10	115
PENNSYLVANIA AVE	
38+96	48
41+17	48
15TH AVE	
48+84	47
51+05	47
TOTAL	
1,380	

FOUNDATION PREPARATION		
LOCATION	211.0100 PREPARING FOUNDATION FOR ASPHALTIC PAVING	211.0400 PREPARING FOUNDATION FOR ASPHALTIC SHOULDER
	LS	STA
STA 172+50 - 173+50		1
PROJECT	1	
TOTAL		
1		

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ASPHALTIC PAVEMENT ITEMS					
		460.6224	455.0605	460.0105.S	460.0110.S
		HMA PAVEMENT	TACK COAT	PWL TEST STRIPS	PWL TEST STRIPS
		4 MT 58-28 S		VOUMETRICS	DENSITY
LOCATION		TON	GAL	EA	EA
STAGE 1					
STH 100 EB					
	131+00	-	170+30	1,030	
	172+10	-	248+00	1,990	
STH 100 WB					
	133+75	-	170+23	960	
	172+03	-	249+30	2,030	
STAGE 1 SUB-TOTAL				6,010	
STAGE 2					
STH 100 EB					
	131+00	-	170+30	825	
	173+10	-	248+00	1,590	
STH 100 WB					
	131+00	-	169+30	765	
	173+10	-	248+00	1,622	
NICHOLSON RD INTERSECTION				208	
PENNSYLVANIA AVE INTERSECTION				184	
15TH AVE INTERSECTION				187	
STH 100 LEFT TURN LANES					
	144+00		17		
	148+00		23		
	155+00		70		
	163+00		65		
	182+00		60		
	190+00		58		
	196+00		22		
	202+00		23		
	208+00		60		
	217+00		67		
	218+00		22		
	224+00		23		
	243+00		22		
	249+00		23		
STH 100 MEDIAN OPENINGS					
	145+75		34		
	199+00		34		
	221+00		39		
	246+00		37		
STAGE 2 SUB-TOTAL				6,080	
STH 100 (PROJECT)			7,200	1	1
TOTAL			12,090	7,200	1

PWL Mixture Use Table							Quality Management Program to be used for:	
The following acceptance criteria are applicable for this project:								
Location	Station	Mixture Use	Underlying Surface	Bid Item	Tons	Thickness	Mixture Acceptance	Density Acceptance
12 foot driving lane	131+00 to 248+00 EB	Upper Layer	Milled Existing HMA Surface	4 MT 58-28 S	3,640	2"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
12 foot driving lane	133+75 to 249+30 WB	Upper Layer	Milled Existing HMA Surface	4 MT 58-28 S	3,630	2"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
4 foot inside shoulder	131+00 to 248+00 EB	Upper Layer	Milled Existing HMA Surface	4 MT 58-28 S	1,150	2"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not elgibile for incentive or disincentive
8 foot outside shoulder	131+00 to 248+00 EB	Upper Layer	Milled Existing HMA Surface	4 MT 58-28 S	1,410	2"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not elgibile for incentive or disincentive
4 foot inside shoulder	133+75 to 249+30 WB	Upper Layer	Milled Existing HMA Surface	4 MT 58-28 S	870	2"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not elgibile for incentive or disincentive
8 foot outside shoulder	133+75 to 249+30 WB	Upper Layer	Milled Existing HMA Surface	4 MT 58-28 S	1,390	2"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not elgibile for incentive or disincentive
TOTAL TONS					12,090			

ASPHALTIC PAVEMENT ITEMS				ASPHALT REPAIR			
465.0400 ASPHALTIC SHOULDER RUMBLE STRIPS - TYPE 1				465.0105 ASPHALTIC SURFACE	465.0110 ASPHALTIC SURFACE PATCHING	SPV.0195.01 JOINT AND CRACK REPAIR	
LOCATION		LF		LOCATION	TON	TON	TON
STH 100 EB				STH 100 (PROJECT)	360	20	30
	131+50	-	155+00	2,350	LOOP DETECTOR REPLACEMENTS	110	0
	161+75	-	170+00	825	TOTAL	470	20
	172+25	-	181+25	900			30
	188+25	-	207+25	1,900			
	214+50	-	248+00	3,350			
STH 100 WB							
	134+00	-	157+50	2,350			
	163+25	-	170+00	675			
	172+25	-	183+25	1,100			
	189+75	-	210+25	2,050			
	216+00	-	249+50	3,350			
		TOTAL		18,850			

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BASE AGGREGATE			
			305.0110
			3/4-INCH
			DENSE
LOCATION	TON		
STH 100 EB SHOULDERS			
131+00	-	159+00	130
160+00	-	170+30	50
172+12	-	185+25	61
186+50	-	211+50	154
212+50	-	248+00	164
STH 100 WB SHOULDERS			
133+50	-	159+00	118
160+00	-	170+30	50
172+12	-	185+25	61
186+50	-	211+50	118
212+50	-	248+00	164
TOTAL			1,070

CONSTRUCTION STAKING		
PROJECT	650.8000 RESURFACING REFERENCE	650.9910 SUPPLEMENTAL CONTROL (PROJECT)
	LF	LS
STH 100	11,830	1
TOTAL	11,830	1

INLET PROTECTION				
		628.7005	628.7015	
		INLET PROTECTION TYPE A	INLET PROTECTION TYPE C	
DESCRIPTION	STATION - STATION	EA	EA	
STH 100	131+00 - 249+30	9	80	
UNDISTRIBUTED			5	
TOTAL		9	85	

LANDSCAPING				
	625.0105	628.2006	630.0120	630.0500
		EROSION MAT	SEEDING	
		URBAN CLASS 1	MIXTURE TYPE	
	TOPSOIL	TYPE A	20	SEED WATER
LOCATION	CY	SY	LB	MGAL
STA 173+00 LT	6	16	1	2
NICHOLSON RD INTERSECTION	4	34	9	3
TOTAL	10	50	10	5

GUARDRAIL										
		614.0010 BARRIER SYSTEM GRADING SHAPING FINISHING	614.0397 GUARDRAIL MOW STRIP EMULSIFIED ASPHALT	614.0400 ADJUSTING STEEL PLATE BEAM GUARD	614.0950 REPLACING GUARDRAIL POSTS AND BLOCKS	614.0951 REPLACING GUARDRAIL RAIL AND HARDWARE	614.0952 REPLACING GUARDRAIL REFLECTORS	SPV.0060.001 REPLACING STEEL PLATE BEAM GUARD BOLTS AND HARDWARE	SPV.0060.002 REPLACING END TERMINAL REFELCTIVE SHEETING AND MARKER POSTS	
DESCRIPTION	STATION - STATION	EA	SY	LF	EA	LF	EA	EA	EA	
STH 100 WB	169+10 - 170+25	1	40	80	1	0	1	0	0	
	172+00 - 173+00	1	80	80	3	0	1	0	1	
	172+00 - 173+60	0	0	0	4	25	2	9	1	
TOTAL		2	120	160	8	25	4	9	2	

FIELD OFFICE		MOBILIZATION	
642.5401 FIELD OFFICE TYPE D		619.1000 MOBILIZATION	
LOCATION	EA	LOCATION	EA
PROJECT	1	PROJECT	0.4
TOTAL	1	TOTAL	0.4

MOBILIZATIONS EROSION CONTROL			
		628.1905	628.1910
		MOBILIZATIONS EROSION CONTROL	MOBILIZATIONS EMERGENCY EROSION CONTROL
		EA	EA
STH 100 EB		1	1
TOTAL		1	1

EROSION CONTROL				
		628.1504 SILT FENCE	628.1520 SILT FENCE MAINT.	
DESCRIPTION	STATION - STATION	LF	LF	
STH 100 WB	168+00 - 170+50	250	200	
	171+75 - 174+25	250	200	
TOTAL		500	400	

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PAVEMENT MARKING													
LOCATION	GROOVED WET REFLECTIVE CONTRAST EPOXY			EPOXY 4-INCH			EPOXY 8-INCH		EPOXY 18-INCH	EPOXY 12-INCH	EPOXY 6-INCH	CURB EPOXY	CONTRAST EPOXY 4-INCH
	4-INCH	8-INCH	8-INCH	WHITE	YELLOW	DOUBLE	WHITE	WHITE	STOP LINE	DIAGONAL	CROSSWALK	YELLOW	WHITE
	WHITE SKIPS	WHITE	WHITE SKIPS			YELLOW	SKIPS	LINE			TRANSVERSE LINE		
	646.1545	646.3545	646.3545	646.1020	646.1020	646.1020	646.3020	646.3020	646.6120	646.7120	646.7420	646.8120	SPV.0090.01
	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
STH 100													
EAST BOUND													
STA 129+40 - STA 159+00	700	1,030	80	2,920	2,790		80		40			75	
STA 160+00 - STA 185+25	630	860	100	2,500	2,500		100					25	50
STA 186+50 - STA 211+50	630	1,070	90	2,500	2,400		90					95	
STA 212+50 - STA 254+75	1,050	320		4,200	3,300					100	200	190	
WEST BOUND													
STA 129+40 - STA 159+00	700	130		2,500	2,350							100	
STA 160+00 - STA 185+25	630	960	70	2,500	2,500		70		40			25	50
STA 186+50 - STA 211+50	630	1,050	75	2,500	2,400		75					95	
STA 212+50 - STA 254+75	1,000	1,250	80	4,200	3,100		80					150	
NICHOLSON RD				280		400		200	50				
PENNSYLVANIA AVE				340		540		270	70				
15TH AVE				300		540		270	70				
SUBTOTALS	5,970	6,670	495	24,740	21,340	1,480	495	740	270	100	200	755	100
TOTAL	5,970	7,165			47,560			1,235	270	100	200	755	100

PAVEMENT MARKING SYMBOLS									
LOCATION	EPOXY WORD	EPOXY ARROW	LOCATION	EPOXY WORD	EPOXY ARROW	LOCATION	EPOXY WORD	EPOXY ARROW	
	646.5120	646.5020		646.5120	646.5020		646.5120	646.5020	
	EACH	EACH		EACH	EACH		EACH	EACH	
STH 100			STH 100			NICHOLSON RD			
EAST BOUND			WEST BOUND			STA 28+32 RT		2	
STA 155+20 RT		1	STA 131+90 LT	1		STA 29+04 RT		2	
STA 157+31 RT		1	STA 131+50 LT		1	STA 31+46 LT		2	
STA 157+90 RT	1		STA 130+10 LT	1		PENNSYLVANIA AVE			
STA 158+32 RT		1	STA 129+60 LT		1	STA 38+31 RT		2	
STA 158+41 RT		1	STA 160+21 LT		1	STA 39+04 RT		2	
STA 182+20 RT		1	STA 160+39 LT		1	STA 40+95 LT		2	
STA 183+40 RT		1	STA 160+80 LT	1		STA 41+76 LT		2	
STA 184+40 RT	1		STA 161+53 LT		1	15TH AVE			
STA 184+50 RT	1		STA 163+76 LT		1	STA 48+30 RT		2	
STA 184+83 RT		1	STA 186+70 LT		1	STA 49+10 RT		2	
STA 184+93 RT		1	STA 186+86 LT		1	STA 50+98 LT		2	
STA 208+02 RT		1	STA 187+11 LT	1		STA 51+78 LT		2	
STA 209+58 RT		1	STA 187+26 LT	1		SIDERoads SUBTOTAL	0	22	
STA 210+58 RT	1		STA 188+24 LT		1	TOTAL	16	52	
STA 210+72 RT	1		STA 189+85 LT		1				
STA 210+99 RT		1	STA 212+99 LT		1				
STA 211+13 RT		1	STA 213+05 LT		1				
STA 248+00 RT	1		STA 213+43 LT	1					
STA 248+35 RT		1	STA 213+46 LT	1					
STA 248+75 RT	1		STA 214+56 LT		1				
STA 249+25 RT		1	STA 215+93 LT		1				
STA 253+60 RT	1		STH 100 WB SUBTOTAL	7	14				
STA 254+00 RT		1							
STA 254+10 RT	1								
STA 254+30 RT		1							
STH 100 EB SUBTOTAL	9	16							

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	TRAFFIC CONTROL									
	643.0300 TRAFFIC CONTROL DRUMS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II	643.0420 TRAFFIC CONTROL BARRICADES TYPE III	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C	643.0800 TRAFFIC CONTROL ARROW BOARDS	643.0900 TRAFFIC CONTROL SIGNS	643.1050 TRAFFIC CONTROL SIGNS PCMS	643.1070 TRAFFIC CONTROL CONES 42-INCH	643.5000 TRAFFIC CONTROL
	DAY	DAY	DAY	DAY	DAY	DAY	DAY	DAY	DAY	EA
STAGE 1	5,200	400	1,100	2,100	900	50	2,500	6	9,400	0.25
STAGE 2	6,900	700	1,900	3,500	900	50	3,300	0	7,900	0.25
STAGE 3	2,400	200	500	1,000	400	20	1,200	0	4,300	0.25
TOTAL	14,500	1,300	3,500	6,600	2,200	120	7,000	6	21,600	0.75

643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II	
LOCATION	EACH
STH 32 SOUTH	1
TOTAL	1

PAVEMENT MARKING REMOVAL	
646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9200 MARKING REMOVAL WIDE LF
STAGE 1	22,400
STAGE 2	0
STAGE 3	0
TOTAL	22,400

TEMPORARY PAVEMENT MARKING		
649.0105 TEMPORARY MARKING LINE PAINT, 4-INCH LF	649.0150 TEMPORARY MARKING LINE TAPE, 4-INCH LF	649.0805 TEMPORARY MARKING STOP LINE PAINT, 18-INCH LF
STAGE 1	39,750	0
STAGE 2	0	41,600
STAGE 3	0	0
TOTAL	39,750	41,600

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TYPE II PERMANENT SIGNING													2040-03-75 STH 100	
SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W X H [IN.] x [IN.]			637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 POSTS WOOD 4"X 6"X18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1	R5-1 (3)		36	X	36	9.000	--	--	--	--	1	--	--	
2		NOT USED												
3		NOT USED												
4		NOT USED												
5		NOT USED												
6	R4-7 (3)		36	X	48	12.000	--	--	1	--	--	--	--	SHEET 5 OF 14; MOUNT ON SIGNAL POLE MOUNT ON MAST ARM MOUNT ON SIGNAL POLE
7	M1-94H	NICHOLSON RD	96	X	18	12.000	--	--	--	--	--	--	--	
8	J23-1 (3)		36	X	84	21.000	--	--	1	--	--	--	--	
	MB4-5	TO	36	x	18									
	M1-1	IH 94	36	x	36									
	MB6-1	[SA]	30	x	30									
9	R6-2L (3)		36	X	48	12.000	--	--	1	1	1	--	--	
10	J3-1 (2S)		24	X	45	7.500	--	--	1	1	1	--	--	
	M1-6	WIS 100	24	x	24									
	M6-4		21	x	21									
11	M1-94S	WIS 100 E RYAN RD	90	X	18	11.250	--	--	--	--	--	--	--	
12	R6-3 (2S)		30	X	24	5.000	--	--	1	--	--	--	--	MOUNT ABOVE R1-1F ON SIGNAL POLE
13	R1-1F (3)		36	X	36	--	--	7.460	1	--	--	--	12	MOUNT ON SIGNAL POLE
14	R1-1F (3)		36	X	36	--	--	7.460	1	--	--	--	--	MOUNT ON SIGNAL POLE
15	R5-1 (3)		36	X	36	9.000	--	--	1	1	1	--	--	--
16	R4-7 (3)		36	X	48	12.000	--	--	1	--	--	--	--	MOUNT ON SIGNAL POLE
17	R1-1F (3)		36	X	36	--	--	7.460	1	--	--	--	16	MOUNT ON SIGNAL POLE
18	R1-1F (3)		36	X	36	--	--	7.460	1	--	--	--	6	MOUNT ON SIGNAL POLE
19	R5-1 (3)		36	X	36	9.000	--	--	1	1	1	--	--	--
20	R1-1F (3)		36	X	36	--	--	7.460	1	--	--	--	--	MOUNT ON SIGNAL POLE
SHEET 1 OF 3														
PROJECT NO: 2040-03-75			HWY: STH 100			COUNTY: MILWAUKEE			MISCELLANEOUS QUANTITIES – PERMANENT SIGNING				SHEET: E	

3

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TYPE II PERMANENT SIGNING														2040-03-75 STH 100	
SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W X H [IN.] x [IN.]			637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 POSTS WOOD 4"X 6"X18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	
21	M1-94S	WIS 100 E RYAN RD	90	X	18	11.250	--	--	--	--	--	--	--	MOUNT ON MAST ARM	
22	J3-1 (2S)	WIS 100	24	X	45	7.500	--	--	1	--	--	--	--	MOUNT ON LIGHT POLE	
	M1-6		24	x	24										
	M6-4		21	x	21										
23	R6-3 (2S)		30	X	24	5.000	--	--	1	--	--	--	--	MOUNT ABOVE R1-1F ON SIGNAL POLE	
24	R1-1F (3)	NICHOLSON RD	36	X	36	--	--	7.460	1	--	--	--	23	MOUNT ON SIGNAL POLE	
25	R6-2L (3)		36	X	48	12.000	--	--	1	--	--	--	--	MOUNT ON SIGNAL POLE	
26	M1-94H		96	X	18	12.000	--	--	--	--	--	--	--	MOUNT ON MAST ARM	
27	W3-4 (3)		36	X	36	--	9.000	--	--	--	1	--	--	SHEET 6 OF 14	
28	W3-4 (3)		36	X	36	--	9.000	--	--	--	1	--	--	--	
29	W5-52R (3)		18	X	54	--	6.750	--	1	1	1	--	--	--	
30	W5-52L (3)		18	X	54	--	6.750	--	1	1	1	--	--	--	
31	W5-52R (3)		18	X	54	--	6.750	--	1	1	1	--	--	--	
32	W5-52L (3)		18	X	54	--	6.750	--	1	1	1	--	--	--	
33	W3-3								--	1	1	1	--	MOVED TO STATION 173+00	
34	W3-3	TRAFFIC ON 100 DOES NOT STOP							--	1	1	1	--	MOVED TO STATION 173+00	
35	R6-1R (3)		54	X	18	6.750	--	--	--	--	--	--	58	SHEET 8 OF 14; MOUNT ABOVE R1-1	
36	W4-4C (3)		36	X	15	--	3.750	--	--	--	--	--	58	MOUNT BELOW R1-1	
37	R6-1L (3)		54	X	18	6.750	--	--	--	--	--	--	58	MOUNT ABOVE R1-1	
38	R6-1R (3)		54	X	18	6.750	--	--	--	--	--	--	--	MOUNT ABOVE R1-1 ON LIGHT POLE	
39	W4-4C (3)	TRAFFIC ON 100 DOES NOT STOP	36	X	15	--	3.750	--	--	--	--	--	38	MOUNT BELOW R1-1 ON LIGHT POLE	
40	R6-1L (3)		54	X	18	6.750	--	--	--	--	--	--	38	MOUNT ABOVE R1-1 ON LIGHT POLE	
41	R6-1L (3)		54	X	18	6.750	--	--	--	--	--	--	61	SHEET 10 OF 14; MOUNT ABOVE R1-1 OTHER SIDE OF SIGN NO. 42	
42	R6-1R (3)		54	X	18	6.750	--	--	--	--	--	--	61	MOUNT ABOVE R1-1	
43	R1-1 (3)		36	X	36	7.460	--	--	--	--	1	--	--	--	
44	R1-1 (3)			36	X	36	7.460	--	--	--	--	1	--	--	--
45	R6-1L (3)	54		X	18	6.750	--	--	--	--	--	--	64	MOUNT ABOVE R1-1 ON OTHER SIDE OF SIGN NO. 46	
46	R6-1R (3)	54		X	18	6.750	--	--	--	--	--	--	64	MOUNT ABOVE R1-1	
47	R3-20L (3)	36		X	54	13.500	--	--	--	--	--	--	--	SHEET 13 OF 14; MOUNT ON LIGHT POLE	
SHEET 2 OF 3															
PROJECT NO: 2040-03-75			HWY: STH 100			COUNTY: MILWAUKEE			MISCELLANEOUS QUANTITIES – PERMANENT SIGNING				SHEET:		E

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STH 100 (RYAN RD) & NICHOLSON RD
MILWAUKEE COUNTY
CATEGORY 0020
S40-1192

TRAFFIC SIGNAL REMOVALS	
	204.9060.S.01 REMOVING TRAFFIC SIGNALS EACH
LOCATION	
STH 100 (RYAN RD) & NICHOLSON RD	1
TOTAL	1

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TRAFFIC DETECTOR LOOPS								
LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800	655.0700	655.0800
						CONDUIT LOOP DETECTOR L.F.	LOOP DETECTOR LEAD IN CABLE L.F.	LOOP DETECTOR WIRE L.F.
11	PB18	158+37, 1.4' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	58	267	174
12	PB18	158+68.2, 1.5' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	58	267	174
21	PB22	163+65.30.0' LT	6'X18'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	54	509	216
22	PB21	162+14.9, 36.1' LT	6'X6'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	30	359	150
23	PB21	162+14.8, 24.4' LT	6'X6'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	30	359	150
42	PB1	158+97.5, 105.7' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	58	301	174
43	PB1	159+04.5, 74.4' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	58	301	174
44	PB1	159+08.9, 108.2' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	58	301	174
45	PB1	159+15.8, 76.8' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	58	301	174
51	PB7	160+25.4, 2.3' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	58	92	174
52	PB7	159+94.4, 2.0' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	58	92	174
61	PB20	155+07.9, 29.3' RT	6'X18'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	54	542	216
62	PB19	156+57.9, 35.6' RT	6'X6'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	30	388	150
63	PB19	156+57.9, 24.2' RT	6'X6'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	30	388	150
82	PB9	159+71, 108.1' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	58	48	174
83	PB9	159+66, 76.5' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	58	48	174
84	PB9	159+59.8, 110.2' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	58	48	174
85	PB9	159+54.6, 78.7' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	58	48	174
TOTAL						924	4659	3120

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

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STH 100 (RYAN RD) & NICHOLSON RD
MILWAUKEE COUNTY
CATEGORY 0020
S40-1192

TRAFFIC SIGNAL CABLE AND WIRE				
		655.0260	655.0270	
		CABLE	CABLE	
		TRAFFIC SIGNAL	TRAFFIC SIGNAL	
		12-14 AWG	15-14 AWG	
FROM	TO	L.F.	L.F.	
CB1	SB3	229		
CB1	SB4	148		
CB1	SB8	230		
CB1	SB9		325	
TOTAL		607*	325 *	

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE				
		655.0260	655.0270	
		CABLE	CABLE	
		TRAFFIC SIGNAL	TRAFFIC SIGNAL	
		12-14 AWG	15-14 AWG	
FROM	TO	L.F.	L.F.	
SB3	HEAD 14	15	--	
SB4	HEAD 2	13	--	
SB4	HEAD 15	15	--	
SB4	HEAD 16	15	--	
SB8	HEAD 17	15	--	
SB9	HEAD 5	--	13	
SB9	HEAD 13	--	15	
SB9	HEAD 18	--	15	
TOTAL		73*	43 *	

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

POLES (CONTRACTOR FURNISHED)			
		657.0100	657.0425
		PEDESTAL	TRAFFIC SIGNAL
		BASES	STANDARDS
		EACH	ALUMINUM
			15-FT
SIGNAL			EACH
BASE NO.			
SB4		1	1
SB9		1	1
TOTAL		2	2

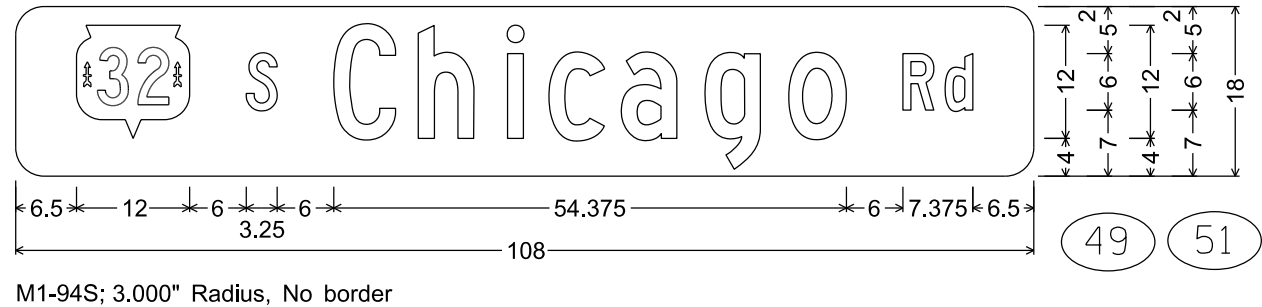
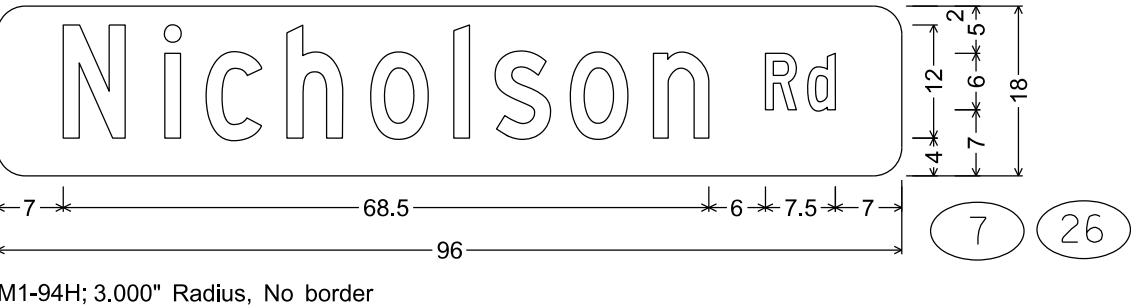
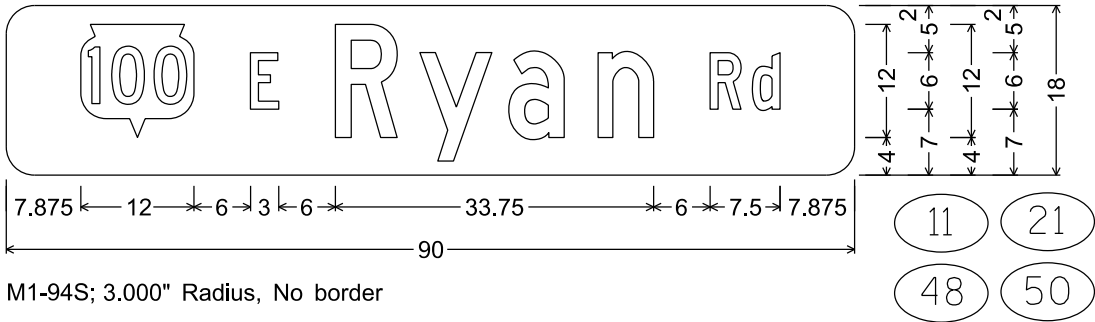
FACES				
		658.0173	658.0174	
		TRAFFIC	TRAFFIC	
		SIGNAL FACE	SIGNAL FACE	
		3S 12-INCH	4S 12-INCH	
		EACH	EACH	
2	SB4	1	--	
5	SB9	1	--	
13	SB9	--	1	
14	SB3	--	1	
15	SB4	--	1	
16	SB4	--	1	
17	SB8	--	1	
18	SB9	--	1	
TOTAL		2	6	

SIGNAL MOUNTING HARDWARE		
		658.5069.01
		SIGNAL
		MOUNTING
		HARDWARE
		L.S.
LOCATION		
STH 100 (RYAN RD) & NICHOLSON RD		1
TOTAL		1

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NOTES

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



EPlans Preliminary Sheet Numbering Tool

This sheet: ftp://ftp.dot.state.wi.us/transp/roads/eplans/prelim_sheet_numbers.pdf

Notes

- Acrobat 5 or higher is required to use this tool.
- The Bureau of Highway Construction places sheet numbers in the final plan.
- This sheet is for placing preliminary sheet numbers with a "PRE_" prefix.
- If a plan contains multiple projects, number each plan individually.
- Leave this sheet in the plan.

TO ADD PRELIMINARY SHEET NUMBERS

1. Insert this sheet at the end of the plan

- a. With the plan open in Acrobat, select Document > Insert Pages.
- b. In the Select File to Insert dialog box, select this file (prelim_sheet_numbers.pdf)
- c. In the Insert dialog box, choose After for Location and Last page for Page.
- d. Click OK.

2. Click the Place Preliminary Sheet Numbers button

- a. Go to the last sheet of the plan.
- b. Click the Place Preliminary Sheet Numbers button once.
(The preliminary sheet number appears in the bottom right corner of the sheets.
The number should match the page number in the Acrobat Status bar).

3. Re-Save the PDF

- a. Select File > Save As and save the PDF.

TO REMOVE PRELIMINARY SHEET NUMBERS