WKE

PROJECT ID: 2225-00-73

WITH: 2225-00-74, 2225-00-83

COUNTY: MILWAUKEE

JANUARY 2025

ORDER OF SHEETS

TOTAL SHEETS = 432

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2225-00-73	WISC 2025181	1
2225-00-74	WISC 2025182	
2225-00-83		

V FOX POINT, N LAKE DR

SCHOOL ROAD TO DEAN ROAD

STH 32

MILWAUKEE COUNTY

STATE PROJECT NUMBER

2225-00-73

V FOX POINT CROSSWALK ENHANCEMENTS

6 LOCATIONS ON LAKE DR

CONST/PED ENHANCEMENT

MILWAUKEE COUNTY

STATE PROJECT NUMBER

2225-00-74

V FOX POINT, N LAKE DR

SCHOOL ROAD TO DEAN ROAD

CONST/WATERMAIN

MILWAUKEE COUNTY

STATE PROJECT NUMBER

2225-00-83

DESIGN DESIGNATION

A.A.D.T.	(2025)	=	8,000
A.A.D.T.	(2045)	=	8,300
D.H.V.		=	872
D.D.		=	59/41
T.		=	1.32%
DESIGN SPEED		=	40 MPH
ESALS		=	170,000

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 (300'EB')

EXISTING CULVERT

PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS (CAUTION)

MARSH AREA

WOODED OR SHRUB AREA

PROFILE

GRADE LINE

ORIGINAL GROUND

MARSH OR ROCK PROFILE (To be noted as such) (ROCK)

SPECIAL DITCH (LABEL)

GRADE ELEVATION (95.36)

CULVERT (Profile View)

UTILITIES

ELECTRIC (E)

FIBER OPTIC (FO)

GAS (G)

SANITARY SEWER (SAN)

STORM SEWER (SS)

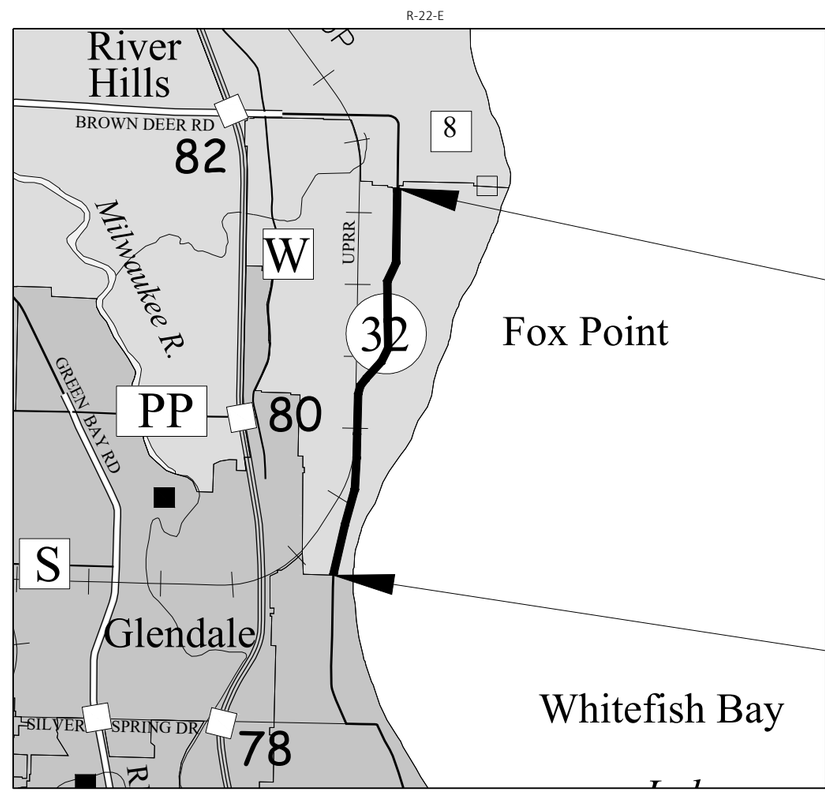
TELEPHONE (T)

WATER (W)

UTILITY PEDESTAL

POWER POLE

TELEPHONE POLE



END PROJECT
STA 272+42.18
Y=433,360.443
X=2,561,386.296

BEGIN PROJECT
STA 133+79.56
Y=419,988.235
X=2,559,492.945

LAYOUT

SCALE 0 — 1 MI

TOTAL NET LENGTH OF CENTERLINE = 2.625 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN STATE PLANE COORDINATE SYSTEM NAD 1927, SOUTH ZONE, 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 NGVD 1929.

ORIGINAL PLANS PREPARED BY

kapur

WISCONSIN PROFESSIONAL ENGINEER
AARON J. BUBB
E-36994
FOX POINT, WI

DATE: 10/7/24 (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	KAPUR & ASSOCIATES
Designer	KAPUR & ASSOCIATES
Project Manager	NGUYEN LY
Regional Examiner	STEVE CHOJNACKI
Regional Supervisor	BEN ERUCHALU

APPROVED FOR THE DEPARTMENT

DATE: 10/7/2024 Nguyen Ly (Signature)

E

GENERAL NOTES

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. EXISTING UTILITIES ARE SHOWN FROM AS-BUILT PLANS PROVIDED BY THE UTILITY. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR MUST NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH BACKFILL GRANULAR.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

INLET PROTECTION IS REQUIRED AT ALL INLETS AS PER DETAIL OR AS DIRECTED BY THE ENGINEER.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 6-INCH TYPICAL DEPTH.

EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER.

THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND ENGINEER IN THE FIELD.

ALL PRIVATE EXISTING UTILITIES ARE TO BE ADJUSTED BY THE UTILITIES CONCERNED. SANITARY SEWER MANHOLES, WATER MANHOLES, WATER VALVE BOXES, AND HYDRANTS WILL BE ADJUSTED AND PAID FOR AS NON-PARTICIPATING ITEMS.

THE EXACT LOCATION OF EXCAVATION BELOW SUBGRADE (EBS) WILL BE DETERMINED BY THE ENGINEER.

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP OR EBS BACKFILL.

CONCRETE CURB AND GUTTER GRADES ARE TO THE FLANGE OF CURB AND GUTTER OR THE THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER. DISTANCES SHOWN FOR CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

THE EXACT LOCATION OF DRIVEWAYS IS TO BE DETERMINED BY THE ENGINEER AND REPLACED IN KIND UNLESS NOTED OTHERWISE.

SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" WILL BE COVERED AS DIRECTED BY THE ENGINEER AND PAID FOR UNDER ITEM "TRAFFIC CONTROL COVERING SIGNS TYPE II."

TRAFFIC CONTROL DEVICES WILL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

CONTRACTOR MUST CONTACT PROJECT ENGINEER AND SEWRPC AT LEAST TWO WEEKS PRIOR TO CONDUCTING WORK NEAR ANY PUBLIC SURVEY MONUMENT

A SAWED JOINT IS REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

STATIONING DISTANCES AND OFFSETS OF SIGNS SHOWN IN THE PLANS ARE APPROXIMATE AND THE FINAL LOCATION OF SIGNS ARE TO BE DETERMINED BY THE ENGINEER.

(P) UTILITY LINETYPE INDICATES A UTILITY THAT WAS DRAWN BASED ON FACILITY MAPPING AND NOT FIELD LOCATED.

CONSTRUCT ASPHALT PAVEMENT WITH THE FOLLOWING LAYERS:

4-INCH
2.25-INCH LOWER LAYER 3 LT 58-28 S
1.75-INCH UPPER LAYER 4 LT 58-28 S

5-INCH
3.25-INCH LOWER LAYER 3 LT 58-28 S
1.75-INCH UPPER LAYER 4 LT 58-28 S

6.5-INCH
2.5-INCH LOWER LAYER 3 LT 58-28 S
2.25-INCH MIDDLE LAYER 3 LT 58-28 S
1.75-INCH UPPER LAYER 4 LT 58-28 S

STANDARD ABBREVIATIONS

AEW	APRON ENDWALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCHMARK
BTWN	BETWEEN
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CMCP	CULVERT PIPE CORRUGATED METAL
CONC	CONCRETE
CP	CULVERT PIPE
CPRC	CULVERT PIPE REINFORCED CONCRETE
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RCAEW	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RRSP	RAILROAD SPIKE
RT	RIGHT
SALV	SALVAGED
SAPBC	SALVAGED ASPHALTIC PAVEMENT BASE COURSE
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPERELEVATION
SF	SQUARE FOOT
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT

2

UTILITY CONTACTS

AT&T WISCONSIN - COMMUNICATION LINE
JAY BULANEK
435 S 95TH STREET
MILWAUKEE, WI 53214
PHONE: (414) 491-2855
EMAIL: JB5175@ATT.COM

EVERSTREAM - COMMUNICATION LINE
JOE HINES
324 E WISCONSIN AVENUE
MILWAUKEE,WI 53202
PHONE: (847) 525-3511
EMAIL: JHINES@EVERSTREAM.NET

FOX POINT, VILLAGE OF - SEWER
SCOTT BRANDMEIER
7200 N SANTA MONICA BLVD
FOX POINT, WI 53217
PHONE: (414) 247-6624
EMAIL: SBRANDMEIER@VILLAGEOFFOXPOINT.COM

FOX POINT, VILLAGE OF - WATER
SCOTT BRANDMEIER
7200 N SANTA MONICA BLVD
FOX POINT, WI 53217
PHONE: (414) 247-6624
EMAIL: SBRANDMEIER@VILLAGEOFFOXPOINT.COM

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT - SEWER
MICHAEL LEE
260 W SEEBOTH STREET
MILWAUKEE, WI 53204
PHONE: (414) 225-2241
EMAIL: MLEE@MMSD.COM

SPECTRUM - COMMUNICATION LINE
BEAU ABUYA
1320 NORTH DR. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 758-9241
EMAIL: BEAU.ABUYA@CHARTER.COM

VERIZON BUSINESS - COMMUNICATION LINE
RJ CICATELLO JR
15725 W RYERSON ROAD
NEW BERLIN, WI 53151
PHONE: (262) 232-1323
EMAIL: RANDY.CICATELLO@VERIZON.COM

WE ENERGIES - ELECTRIC
JACOB SCHAEFER
W140 N9100 LILLY ROAD
MENOMONEE FALLS, WI 53051
PHONE: (262) 365-6452
EMAIL: JACOB.SCHAEFER@WE-ENERGIES.COM

WE ENERGIES - ELECTRIC EMERGENCY
PHONE: (800) 662-4797

WE ENERGIES - GAS
STEVE SCHECHER
500 S 116 ST
WEST ALLIS, WI 53214
PHONE: (414) 550-7102
EMAIL: STEVE.SCHECHER@WE-ENERGIES.COM

WE ENERGIES - GAS EMERGENCY
PHONE: (800) 261-5325

STATE AGENCIES

WISCONSIN DEPT. OF NATURAL RESOURCES
RYAN PAPPAS
1027 W SAINT PAUL AVE
MILWAUKEE, WI 53233
PHONE: (414) 750-7495
EMAIL: RYAN.PAPPAS@WI.GOV

WISDOT - PROJECT MANAGER
NGUYEN LY
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (262) 548-8739
EMAIL: NGUYEN.LY@DOT.WI.GOV

WISDOT - UTILITY ENGINEER
DYLAN GATES
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (414) 550-2689
EMAIL: DYLAN.GATES@DOT.WI.GOV

OTHER CONTACTS

KAPUR & ASSOCIATES
AARON BUBB
7711 N PORT WASHINGTON ROAD
MILWAUKEE, WI 53217
PHONE: (414) 751-7230
EMAIL: ABUBB@KAPURINC.COM

NORTH SHORE FIRE RESCUE
TOBY CARLSON
4401 W RIVER LANE
BROWN DEER, WI 53223
PHONE: (414) 357-0113
EMAIL: TCARLSON@NSFIRE.ORG

FOX POINT POLICE DEPARTMENT
CHRISTOPHER FREEDY
7300 N SANTA MONICA BLVD
FOX POINT, WI 53217
PHONE: (414) 351-8911
EMAIL: CFREEDY@VILLAGEOFFOXPOINT.COM

MILWAUKEE COUNTY DEPARTMENT OF TRANSPORTATION
DONNA BROWN-MARTIN
10320 W WATERTOWN PLANK RD, 2ND FLOOR
WAUWATOSA, WI 53226
PHONE: (414) 257-5992
EMAIL: DONNA.BROWNMARTIN@MILWAUKEECOUNTYWI.GOV

MILWAUKEE COUNTY PARKS
SARAH TOOMSEN
9480 W WATERTOWN PLANK RD
WAUWATOSA, WI 53226
PHONE: (414) 257-7275
EMAIL: SARAH.TOOMSEN@MILWAUKEECOUNTYWI.GOV

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
ROB MERRY - CHIEF SURVEYOR
W239 N1812 ROCKWOOD DRIVE
PO BOX 1607
WAUKESHA, WI 53187-1607
PHONE: (262) 953-4289
EMAIL: RMERRY@SEWRPC.ORG

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
ANDY TRAEGER - CONSTRUCTION COORDINATOR
W239 N1812 ROCKWOOD DRIVE
PO BOX 1607
WAUKESHA, WI 53187-1607
PHONE: (262) 953-4296
EMAIL: ATRAEGER@SEWRPC.ORG

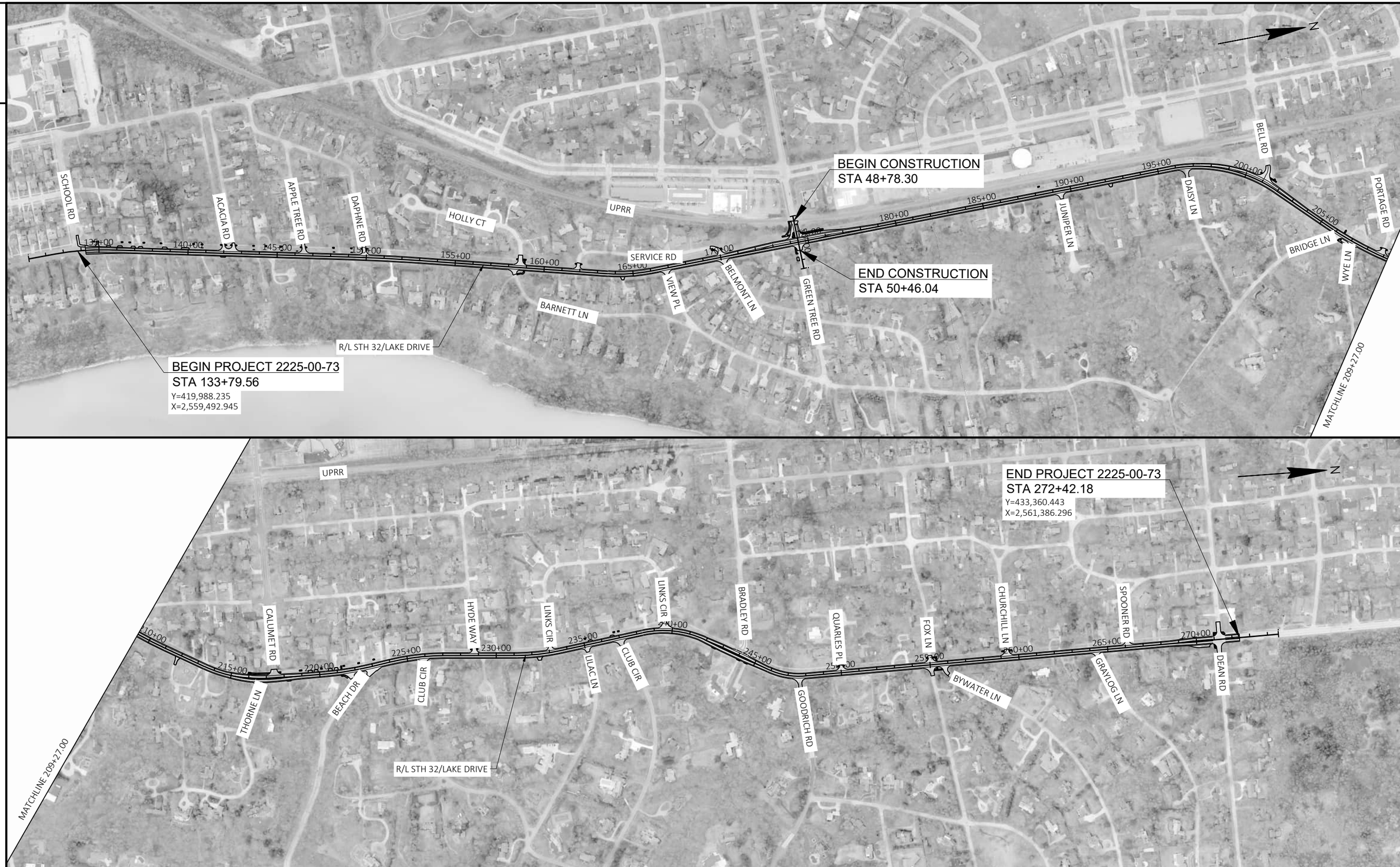
UNION PACIFIC RAILROAD COMPANY
SEAN COLLIER
1525 RALEIGH STREET, SUITE 400
DENVER, CO 80204
PHONE: (303) 374-3162
EMAIL: SCOLLIER@OLSSON.COM

ORDER OF SECTION 2 SHEETS

2

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

2



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PROJECT OVERVIEW - ROADWAY	SHEET 4	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - PO
PLOT DATE : 10/15/2024 10:23 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 44

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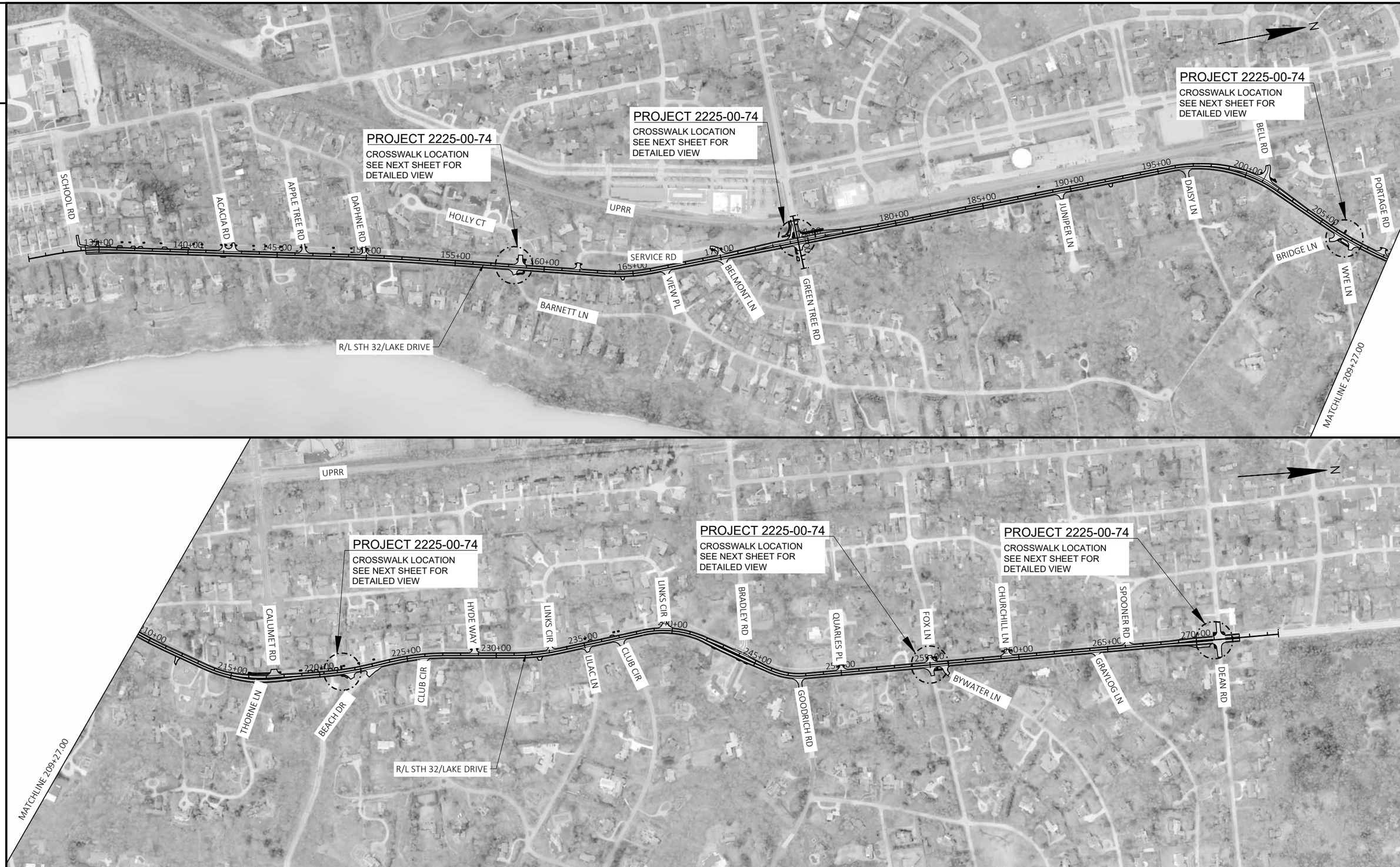

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PROJECT NO: 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PROJECT OVERVIEW - CROSSWALKS	SHEET 5	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\020221-PO.DWG
LAYOUT NAME - PO
PLOT DATE : 10/14/2024 6:11 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 44

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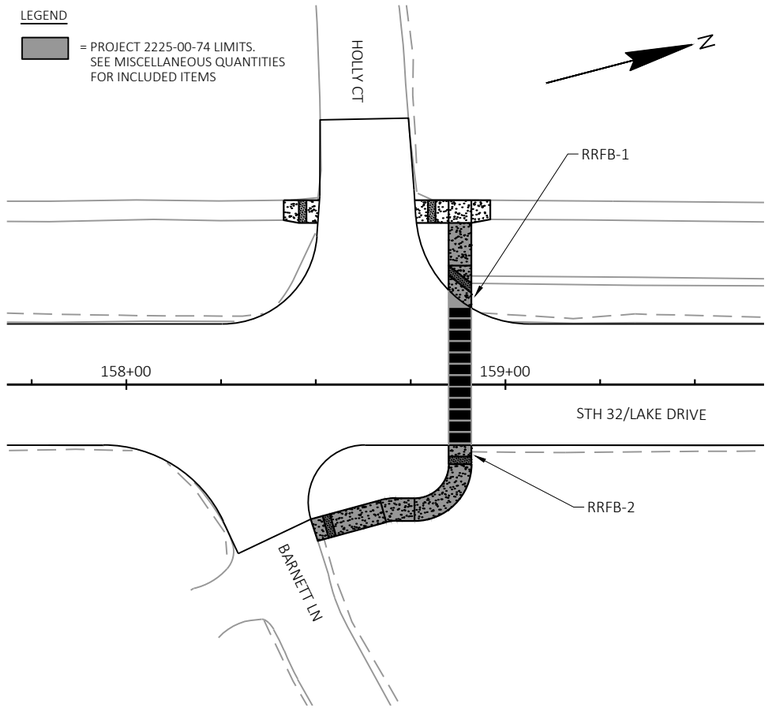
LEGEND

= PROJECT 2225-00-74 LIMITS.
SEE MISCELLANEOUS QUANTITIES
FOR INCLUDED ITEMS



LEGEND

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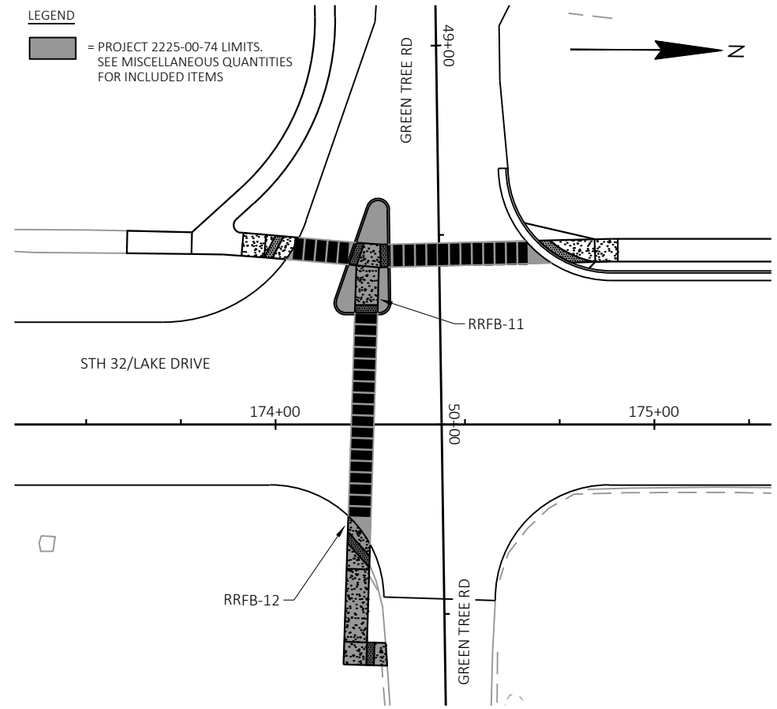
SEE MISCELLANEOUS QUANTITIES
FOR INCLUDED ITEMS



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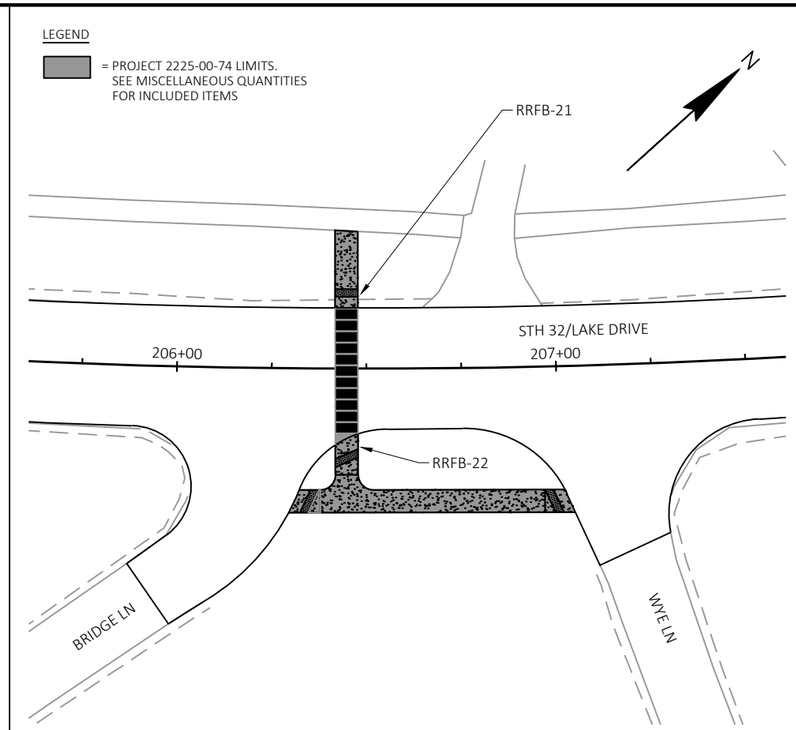
SEE MISCELLANEOUS QUANTITIES
FOR INCLUDED ITEMS



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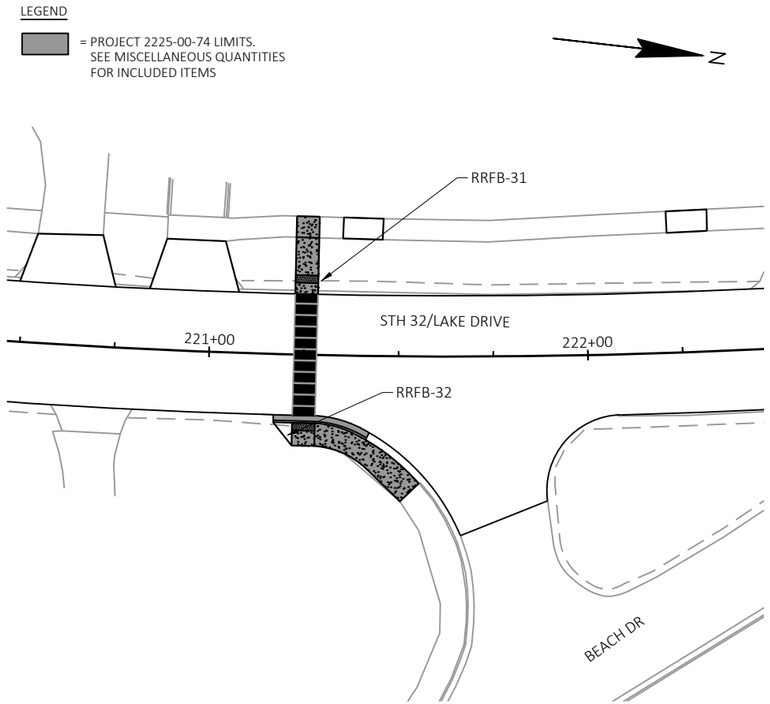
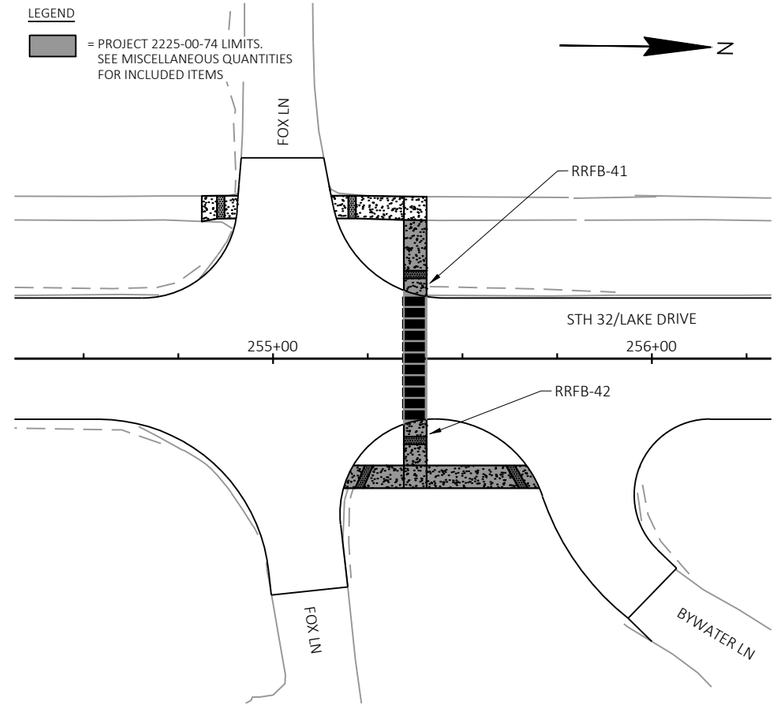
LEGEND

= PROJECT 2225-00-74 LIMITS.
SEE MISCELLANEOUS QUANTITIES
FOR INCLUDED ITEMS



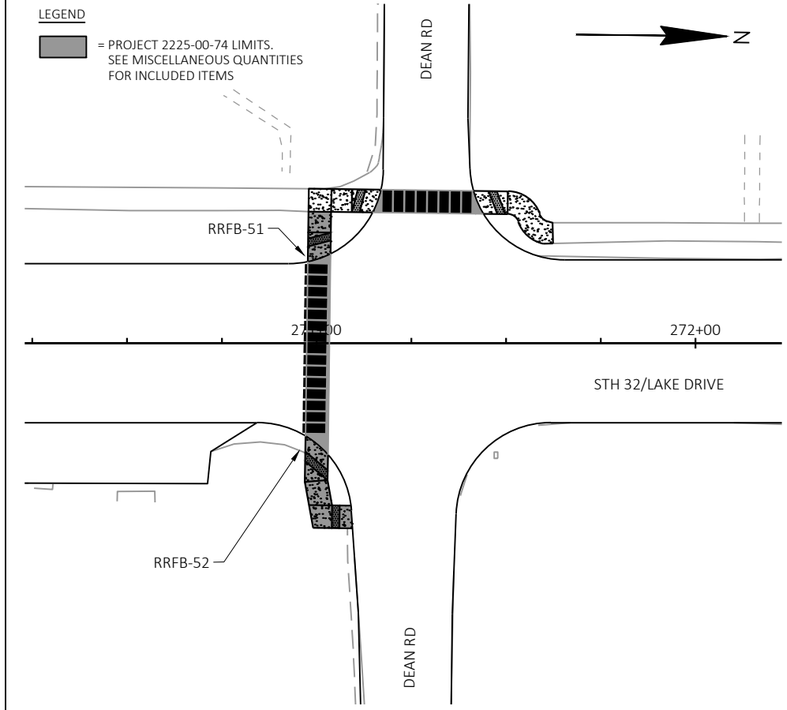
LEGEND

= PROJECT 2225-00-74 LIMITS.
SEE MISCELLANEOUS QUANTITIES
FOR INCLUDED ITEMS



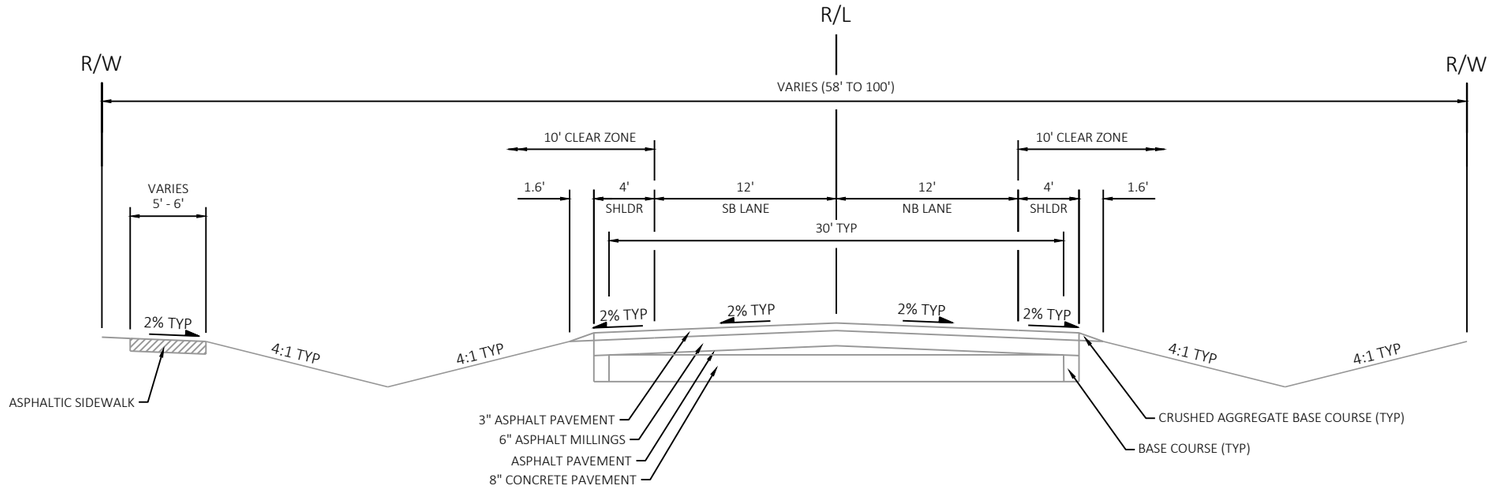
LEGEND

= PROJECT 2225-00-74 LIMITS.
SEE MISCELLANEOUS QUANTITIES
FOR INCLUDED ITEMS



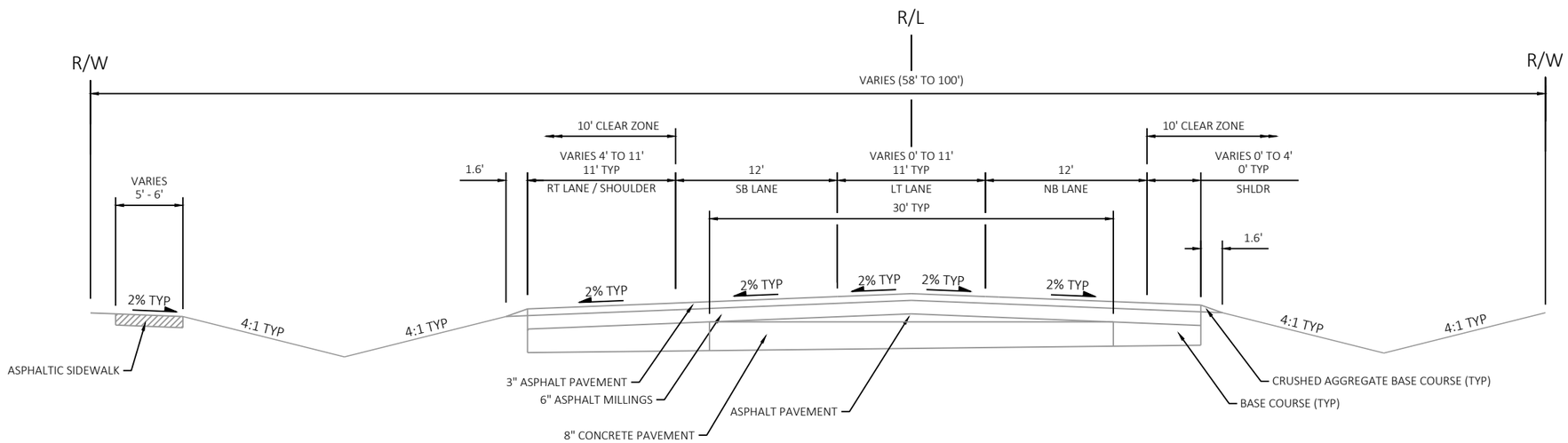
PROJECT NO: 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PROJECT OVERVIEW - CROSSWALKS	SHEET 6	E


BEGIN PROJECT 2225-00-83
STA 133+86.57
Y=419,995.216
X=2,559,493.615
SCHOOL RD
ACACIA RD
APPLE TREE RD
DAPHNE RD
HOLLY CT
UPRR
SERVICE RD
VIEW PL
BELMONT LN
GREEN TREE RD
BARNETT LN
R/L STH 32/LAKE DRIVE
JUNIPER LN
DAISY LN
BELL RD
BRIDGE LN
WYE LN
PORTAGE RD
MATCHLINE 209+27.00
130+00
135+00
140+00
145+00
150+00
155+00
160+00
165+00
170+00
175+00
180+00
185+00
190+00
195+00
200+00
205+00
UPRR
CALUMET RD
THORNE LN
BEACH DR
CLUB CIR
HYDE WAY
LINKS CIR
LILAC LN
BRADLEY RD
QUARLES PL
GOODRICH RD
FOX LN
BYWATER LN
CHURCHILL LN
GRAYLOG LN
SPOONER RD
DEAN RD
MATCHLINE 209+27.00
210+00
215+00
220+00
225+00
230+00
235+00
240+00
245+00
250+00
255+00
260+00
265+00
270+00
END PROJECT 2225-00-83
STA 271+41.89
Y=433,260.160
X=2,561,387.621



EXISTING TYPICAL SECTION

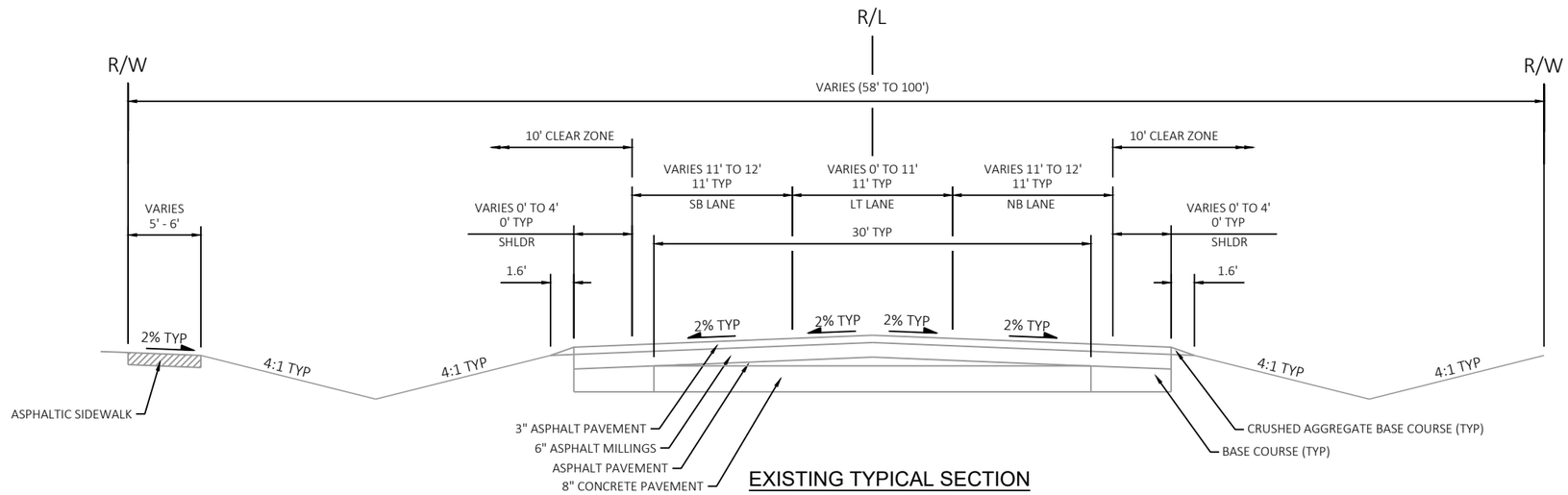
STH 32 STA 134+25 TO STA 171+60
STH 32 STA 178+90 TO STA 197+50
STH 32 STA 203+50 TO STA 213+50
STH 32 STA 219+00 TO STA 240+00
STH 32 STA 247+00 TO STA 269+00



EXISTING TYPICAL SECTION

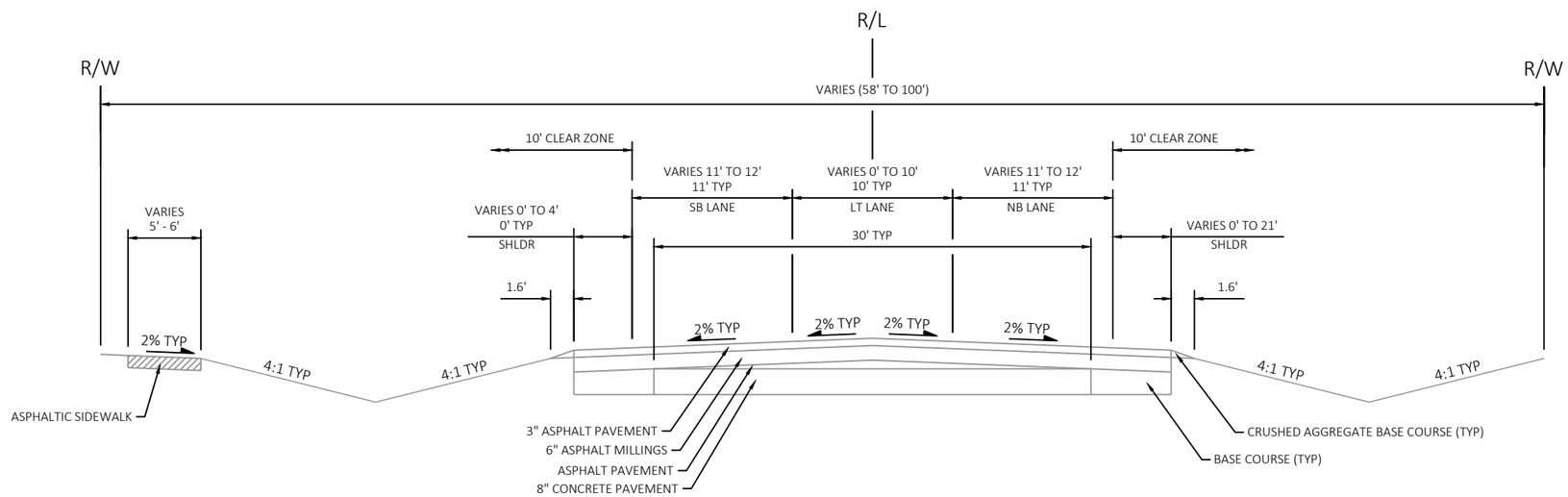
STH 32 STA 171+60 TO STA 178+90

NOTE:
EXISTING STH 32 PAVEMENT SECTION BASED ON 1998 AS-BUILT PLAN.



EXISTING TYPICAL SECTION

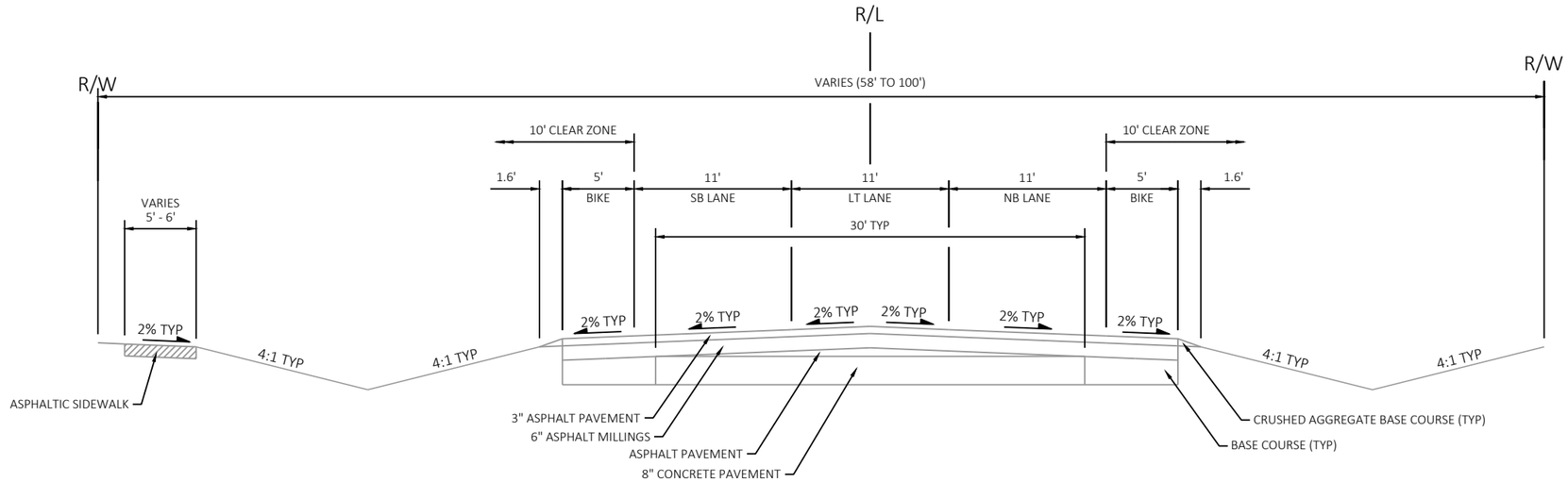
STH 32 STA 197+50 TO STA 203+50
STA 32 STA 213+50 TOSTA 219+00
STA 32 STA 240+00 TO STA 247+00



EXISTING TYPICAL SECTION

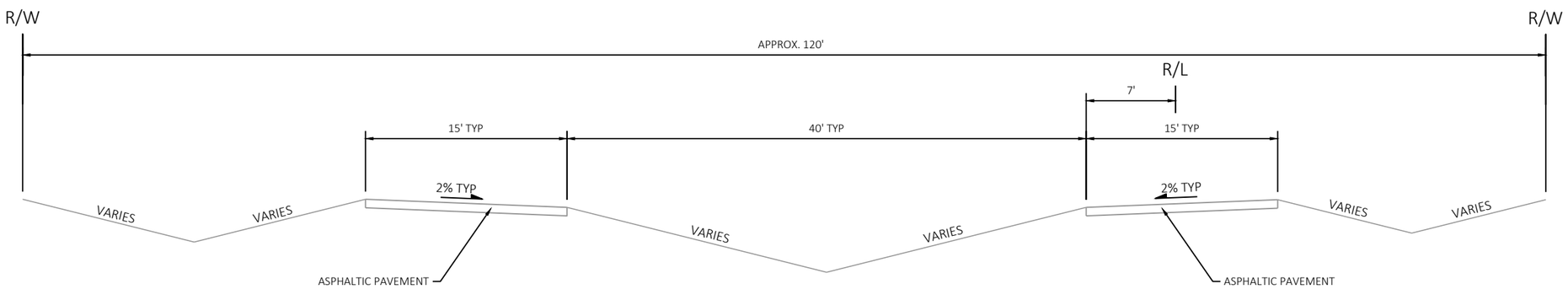
STH 32 STA 269+00 TO STA 271+25

NOTE:
EXISTING STH 32 PAVEMENT SECTION BASED ON 1998 AS-BUILT PLAN.



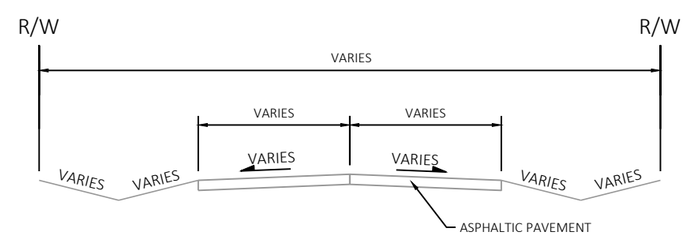
EXISTING TYPICAL SECTION

STH 32 STA 271+25 TO STA 272+42



EXISTING TYPICAL SECTION

ACACIA RD STA 4+29 TO STA 6+39



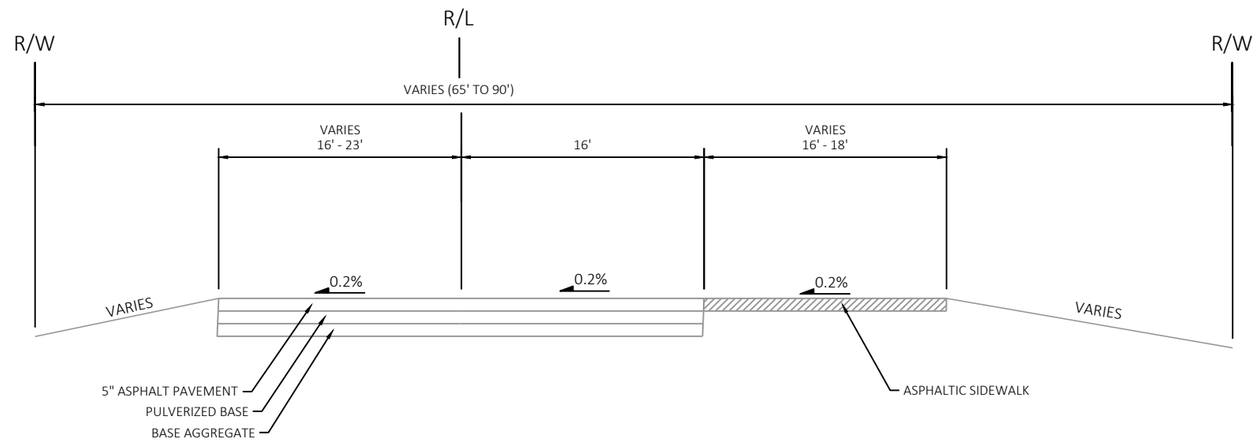
EXISTING TYPICAL SECTION

SIDE ROADS

NOTE:
EXISTING STH 32 PAVEMENT SECTION BASED ON 1998 AS-BUILT PLAN.

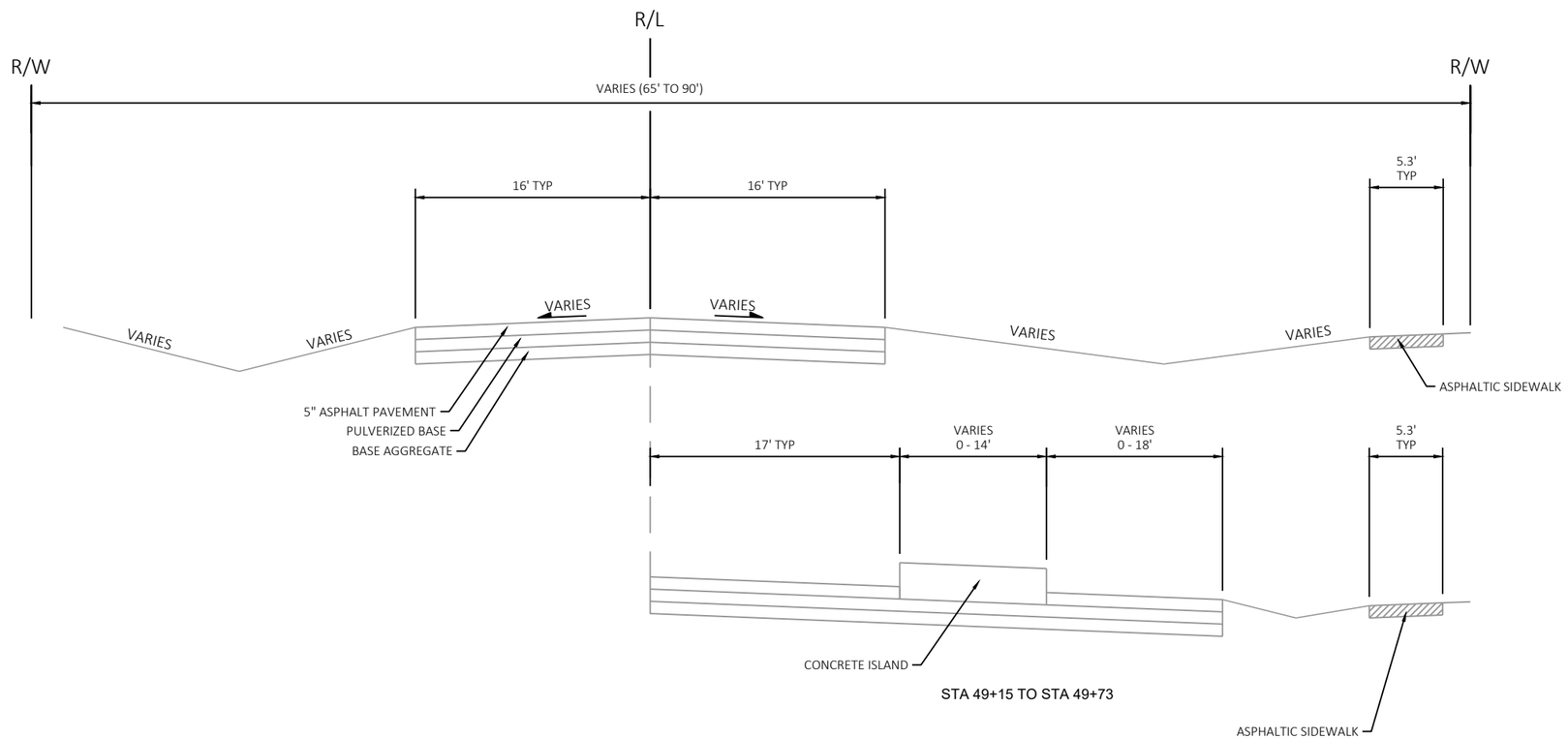
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTION	SHEET 10	E

2



EXISTING TYPICAL SECTION

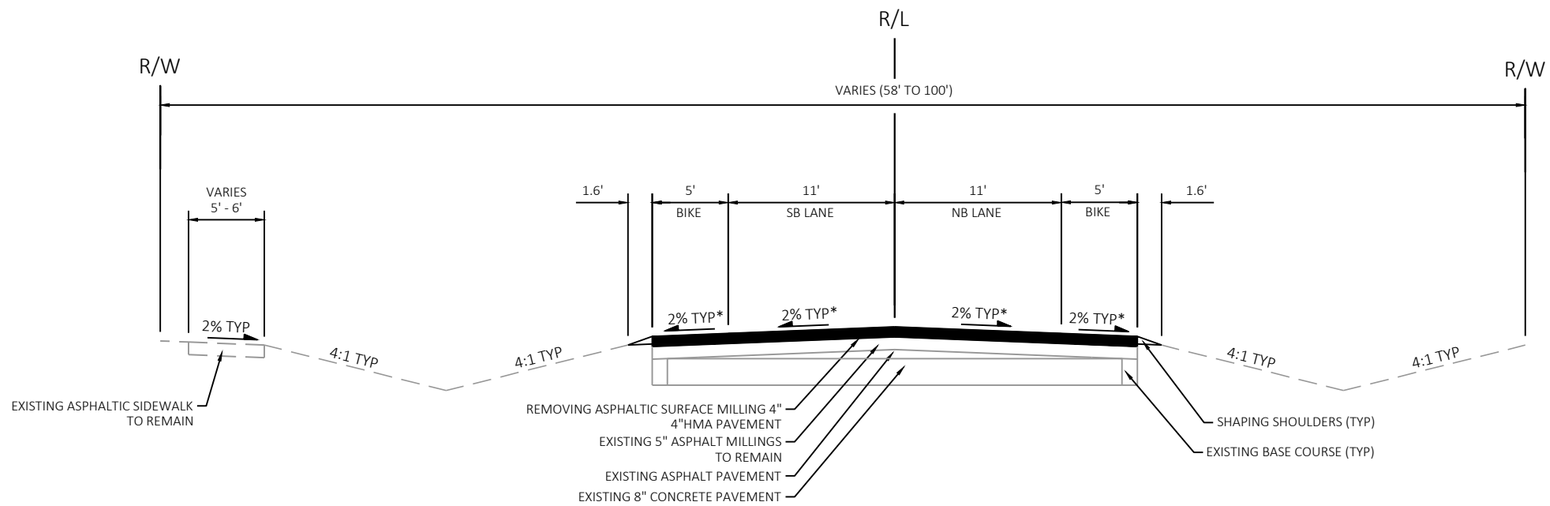
GREEN TREE RD STA 48+78.30 TO STA 48+85.90



EXISTING TYPICAL SECTION

GREEN TREE RD STA 48+85.90 TO STA 50+46.04

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTION	SHEET 11	E



PROPOSED TYPICAL SECTION

STH 32 STA 134+25 TO STA 170+00
STH 32 STA 178+77 TO STA 195+58
STH 32 STA 203+98 TO STA 214+77
STH 32 STA 218+98 TO STA 241+60
STH 32 STA 245+71 TO STA 268+49

2

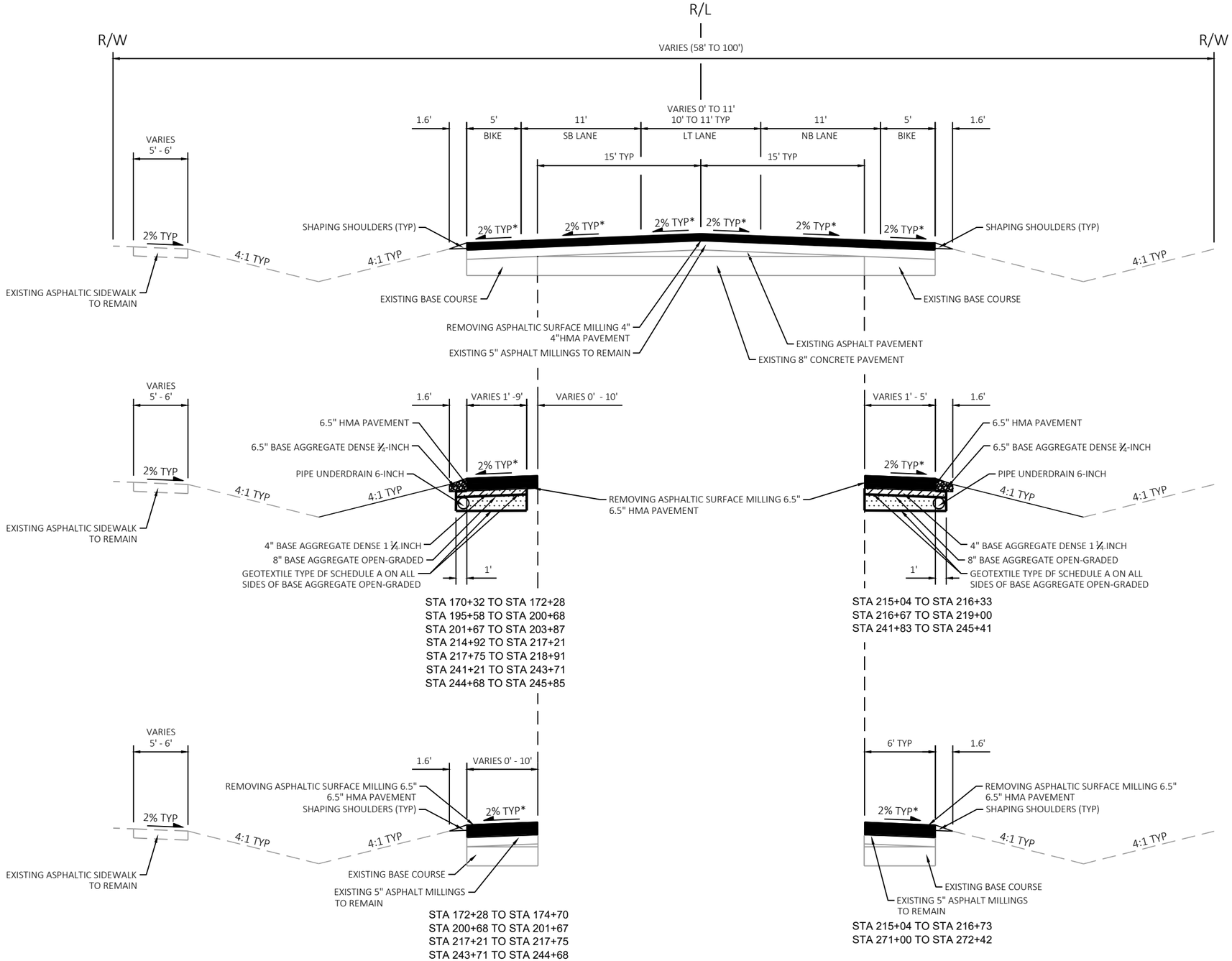
NOTE:

EXISTING STH 32 PAVEMENT SECTION BASED ON 1998 AS-BUILT PLAN.

SEE CONSTRUCTION DETAIL "TRENCH RESTORATION" FOR PAVEMENT SECTION AT STORM SEWER AND WATERMAIN TRENCHES.

LEGEND

* MATCH EXISTING CROSS SLOPE.
SEE CROSS SECTIONS FOR WIDENING.



PROPOSED TYPICAL SECTION

STH 32 STA 170+00 TO STA 174+70
STH 32 STA 195+58 TO STA 203+98
STH 32 STA 214+77 TO STA 218+98
STH 32 STA 241+60 TO STA 245+71
STH 32 STA 271+00 TO STA 272+42

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PROPOSED TYPICAL SECTION	SHEET 13	E

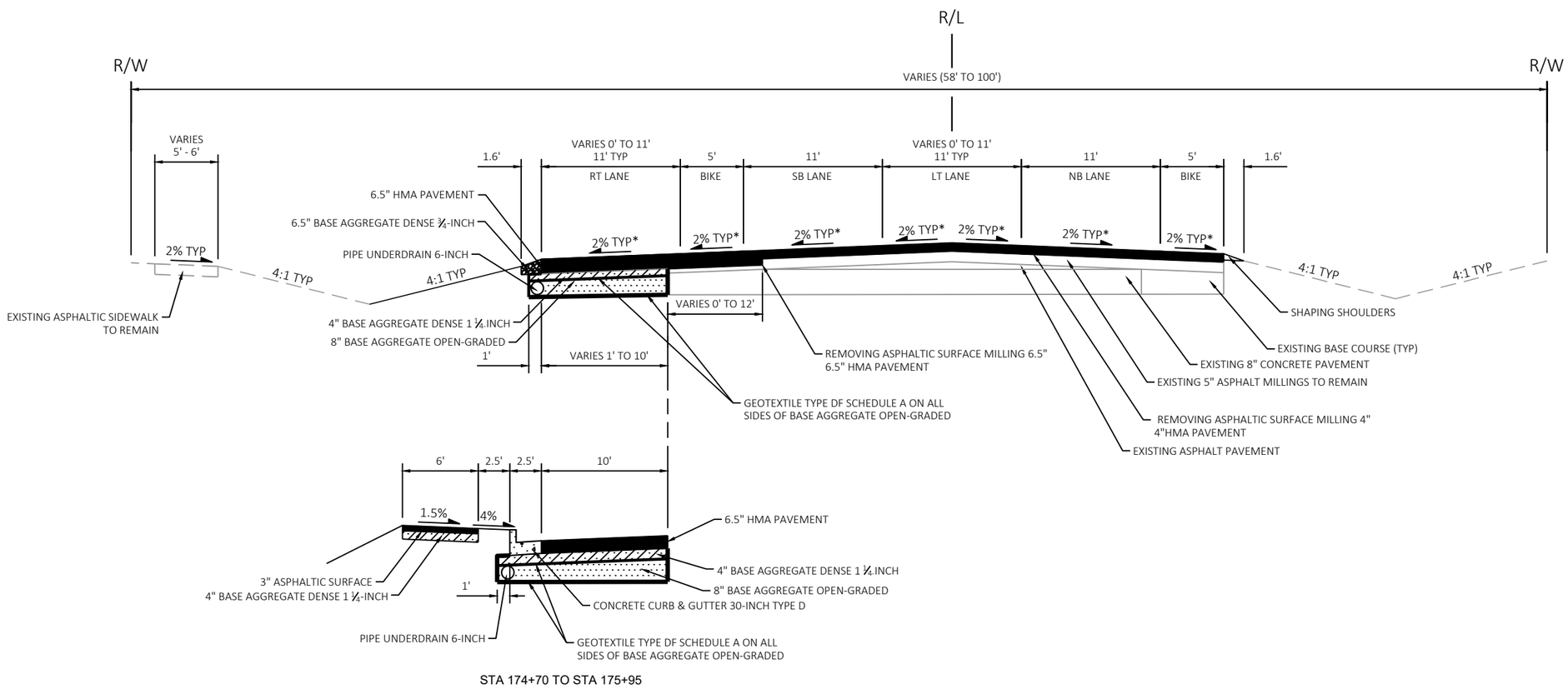
NOTE:

EXISTING STH 32 PAVEMENT SECTION BASED ON 1998 AS-BUILT PLAN.

SEE CONSTRUCTION DETAIL "TRENCH RESTORATION" FOR PAVEMENT SECTION AT STORM SEWER AND WATERMAIN TRENCHES.

LEGEND

* MATCH EXISTING CROSS SLOPE.
SEE CROSS SECTIONS FOR WIDENING.



STA 174+70 TO STA 175+95

PROPOSED TYPICAL SECTION

STH 32 STA 174+70 TO STA 178+77

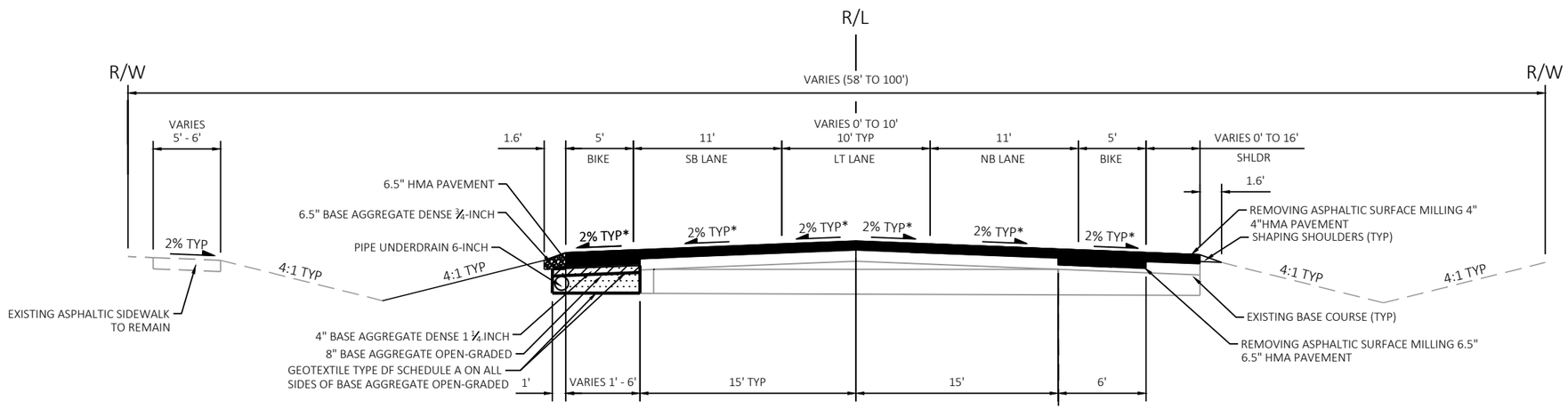
NOTE:

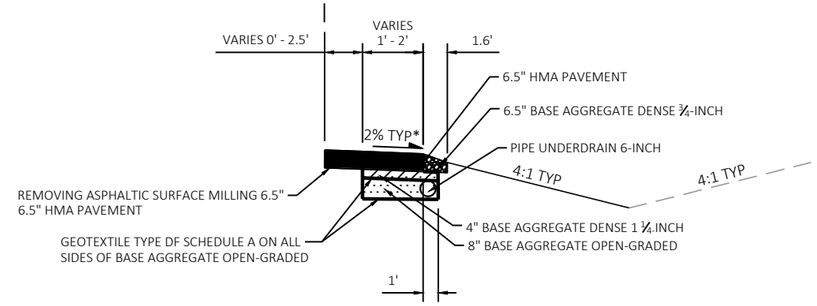
EXISTING STH 32 PAVEMENT SECTION BASED ON 1998 AS-BUILT PLAN.

SEE CONSTRUCTION DETAIL "TRENCH RESTORATION" FOR PAVEMENT SECTION AT STORM SEWER AND WATERMAIN TRENCHES.

LEGEND

* MATCH EXISTING CROSS SLOPE.
SEE CROSS SECTIONS FOR WIDENING.





STA 268+70 TO STA 269+52

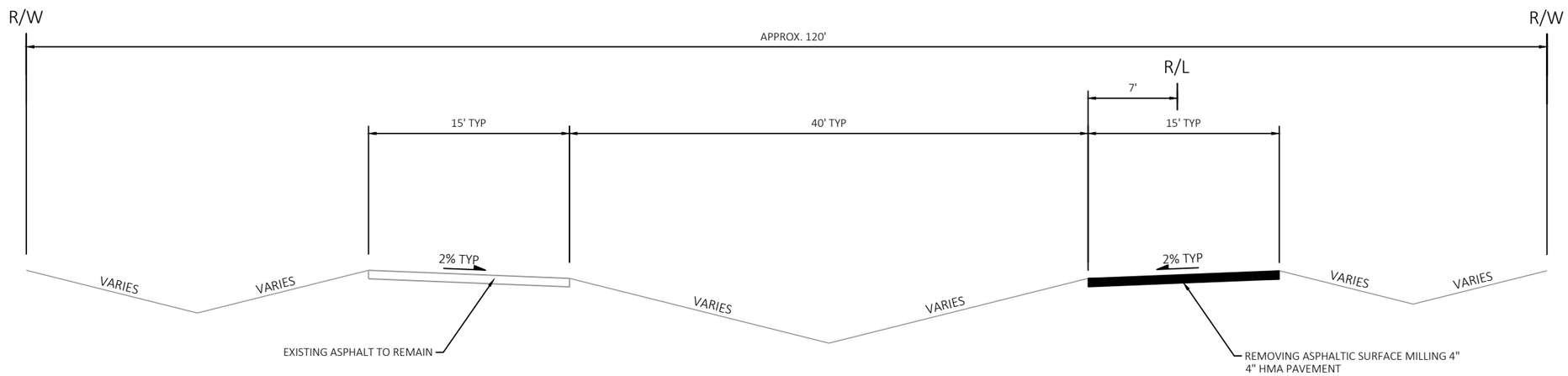
PROPOSED TYPICAL SECTION

STH 32 STA 268+49 TO STA 271+00

2

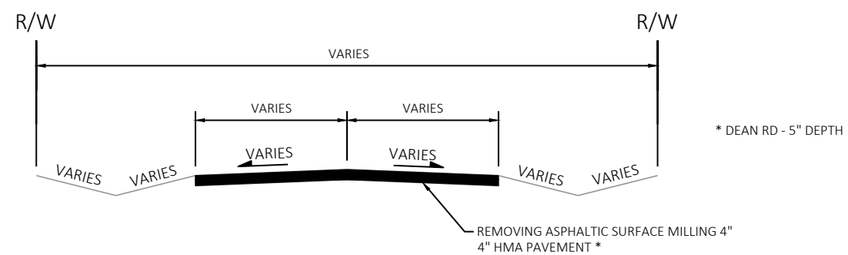
NOTE:
VARIABLE DEPTH MILLING REQUIRED TO MEET PROPOSED GRADES

SEE CONSTRUCTION DETAIL "TRENCH RESTORATION" FOR PAVEMENT SECTION AT STORM SEWER AND WATERMAIN TRENCHES.



PROPOSED TYPICAL SECTION

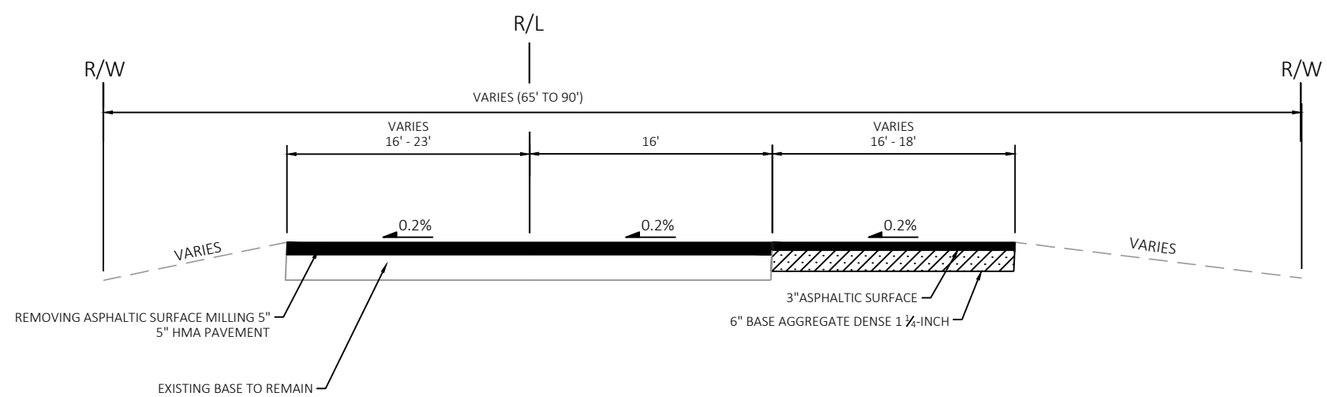
ACACIA RD STA 4+29 TO STA 6+39



* DEAN RD - 5" DEPTH

PROPOSED TYPICAL SECTION

SIDE ROADS



PROPOSED TYPICAL SECTION

GREEN TREE RD STA 48+78.30 TO STA 48+82.30

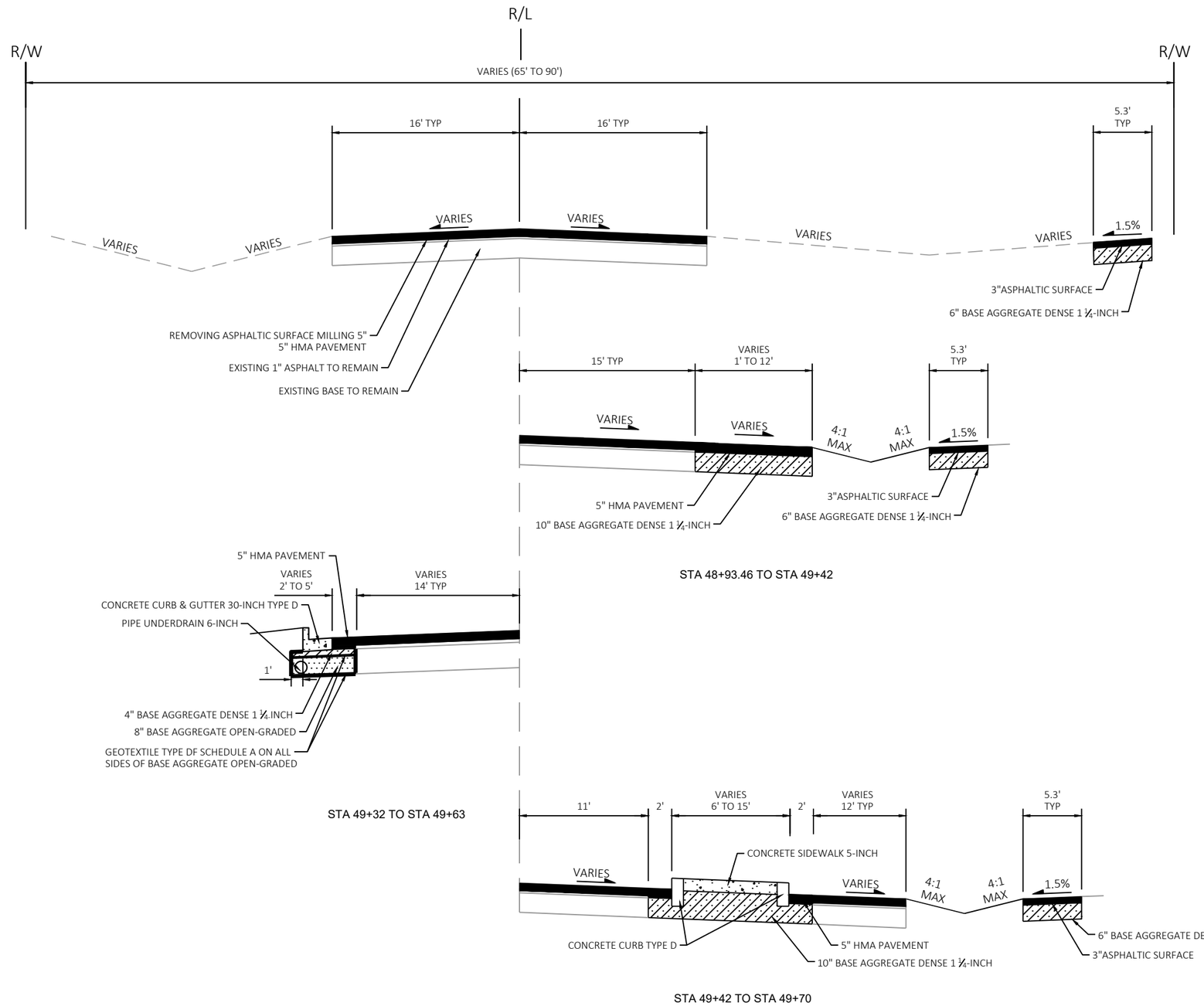
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PROPOSED TYPICAL SECTION	SHEET 16	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\020401-TS.DWG
LAYOUT NAME - 03
PLOT DATE : 10/14/2024 6:14 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

NOTE:
VARIABLE DEPTH MILLING REQUIRED TO MEET PROPOSED GRADES

SEE CONSTRUCTION DETAIL "TRENCH RESTORATION" FOR PAVEMENT SECTION AT STORM SEWER AND WATERMAIN TRENCHES.



PROPOSED TYPICAL SECTION

GREEN TREE RD STA 48+82.30 TO STA 50+46.04

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PROPOSED TYPICAL SECTION	SHEET 17	E

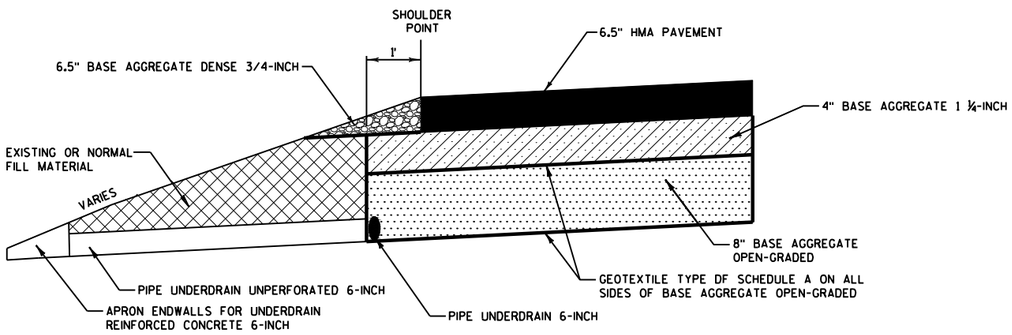
2

NOTE:

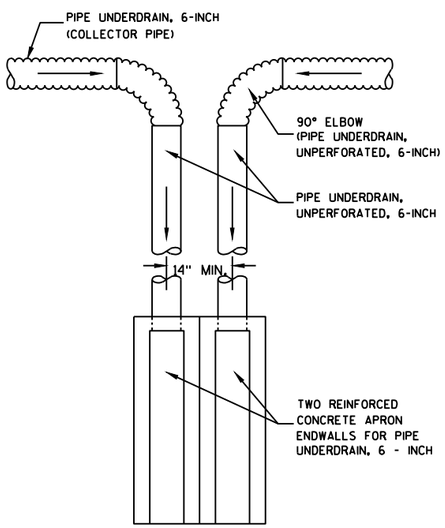
UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

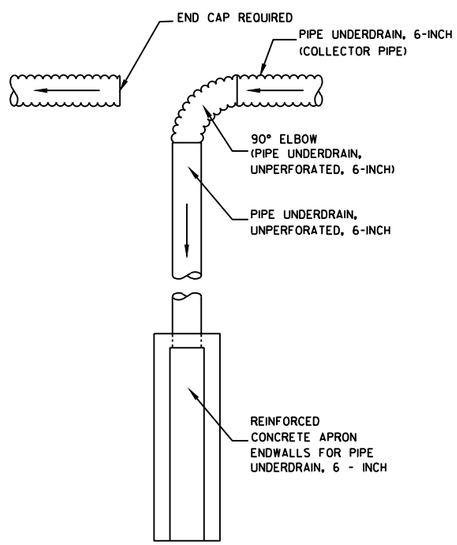
TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.



TYPICAL HALF SECTION



DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS



DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

UNDERDRAIN OUTFALLS

NOTES

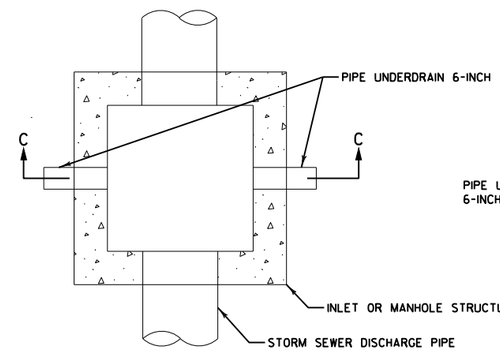
1) CONNECTIONS TO INLETS/MANHOLES SHALL USE PIPE UNDERDRAIN 6-INCH.

2) SEE TYPICAL SECTIONS, STORM SEWER PLANS, AND MISCELLANEOUS QUANTITIES FOR PIPE UNDERDRAIN LOCATIONS.

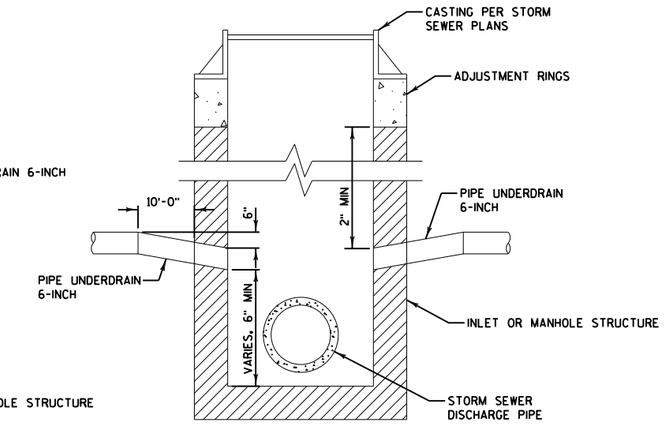
3) CONNECTION TO INLET/MANHOLE IS INCIDENTAL TO THE PIPE UNDERDRAIN 6-INCH BID ITEM.

4) CORE/DRILL HOLE INTO INLET/MANHOLE STRUCTURE AS NEEDED TO ACCOMMODATE PIPE UNDERDRAIN 6-INCH. INSERT AND MORTAR PIPE UNDERDRAIN.

5) UNDERDRAIN SHALL EXTEND TO INSIDE WALL OF STRUCTURE.



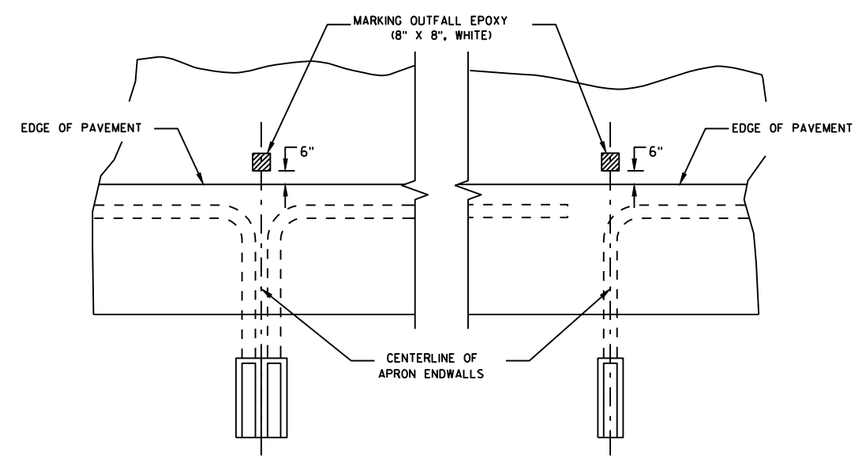
PLAN VIEW



SECTION C-C

UNDERDRAIN CONNECTION AT INLET/MANHOLE

SEE STORM SEWER PLANS AND MISCELLANEOUS QUANTITIES FOR LOCATIONS



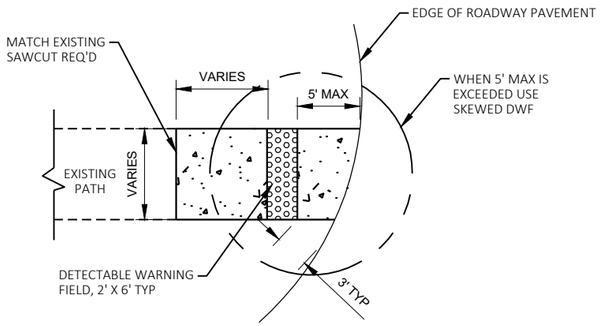
LOW POINT LOCATIONS

INTERMEDIATE LOCATIONS

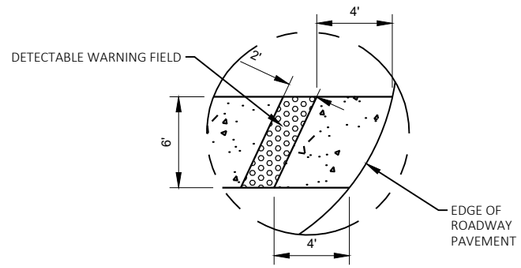
PAVEMENT MARKINGS FOR UNDERDRAIN OUTFALLS

2

2



PERPENDICULAR DWF (PREFERRED)

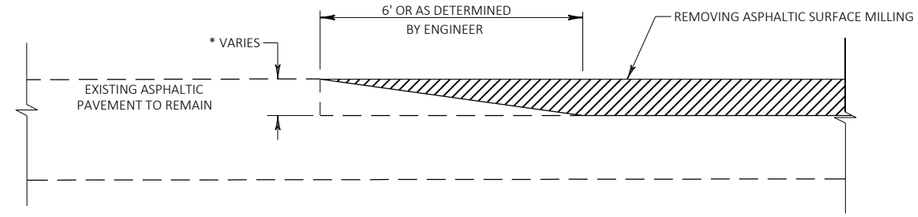


SKEWED DWF

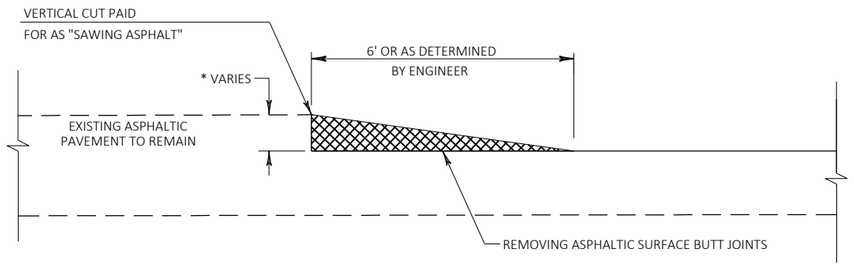
DETECTABLE WARNING FIELD WITH NO CURB

NTS

* SEE PLAN DETAILS FOR DEPTH



STEP 1



STEP 2

BUTT JOINT DETAIL

2

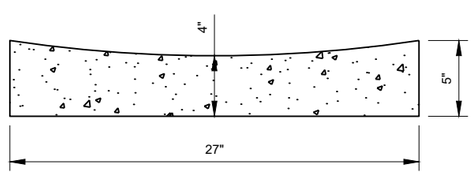
NOTES:

1) REPLACE CONCRETE DITCH BOTTOM WHERE IMPACTED BY PROJECT WORK.

2) SEE PLAN DETAILS FOR LOCATIONS.

3) ADJUST DIMENSIONS TO MATCH EXISTING.

4) REMOVAL OF EXISTING CONCRETE DITCH BOTTOM PAID UNDER ITEMS "REMOVING CONCRETE SIDEWALK " AND "SAWING CONCRETE".



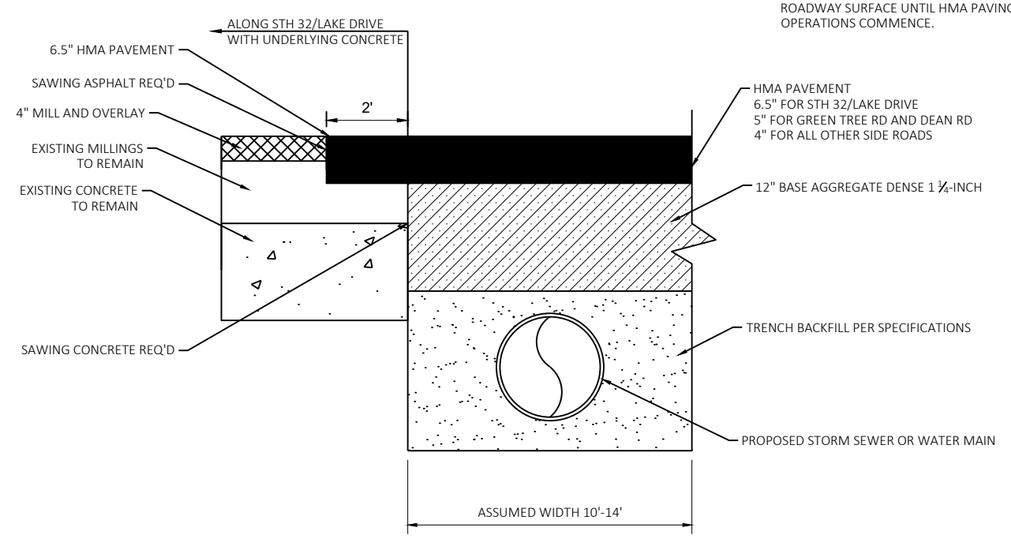
SECTION VIEW

CONCRETE DITCH BOTTOM

NTS

NOTE:

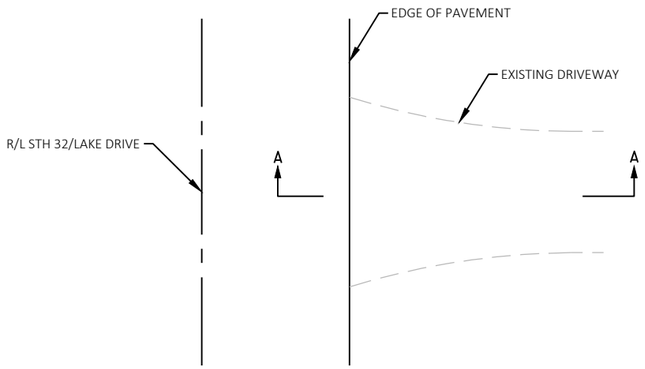
1. BASE AGGREGATE DENSE 1-¼ INCH MAY BE TEMPORARILY PLACED UP TO THE ROADWAY SURFACE UNTIL HMA PAVING OPERATIONS COMMENCE.

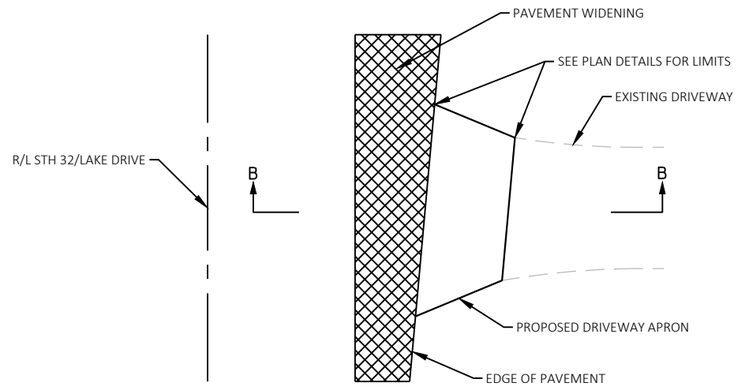


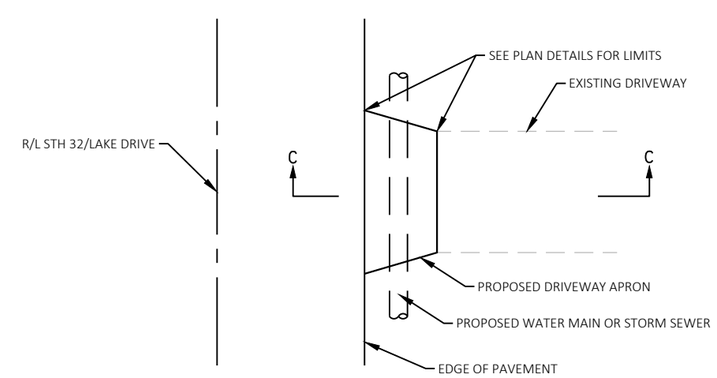
TRENCH RESTORATION

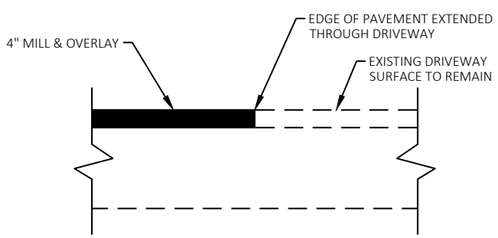
NTS

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 19	E



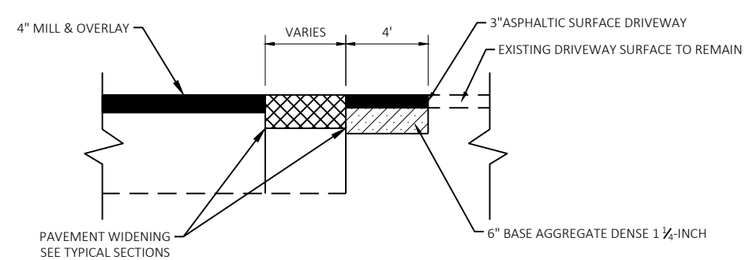






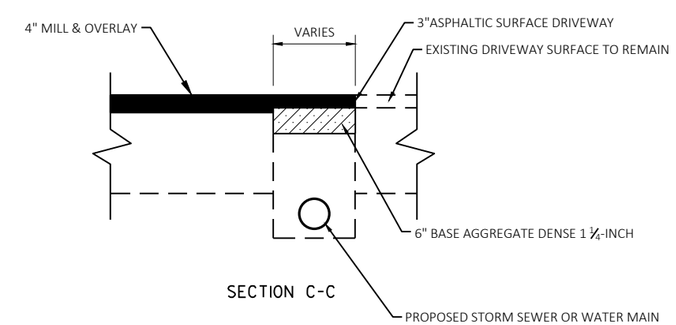
SECTION A-A

MILL AND OVERLAY AREAS



SECTION B-B

PAVEMENT WIDENING AREAS

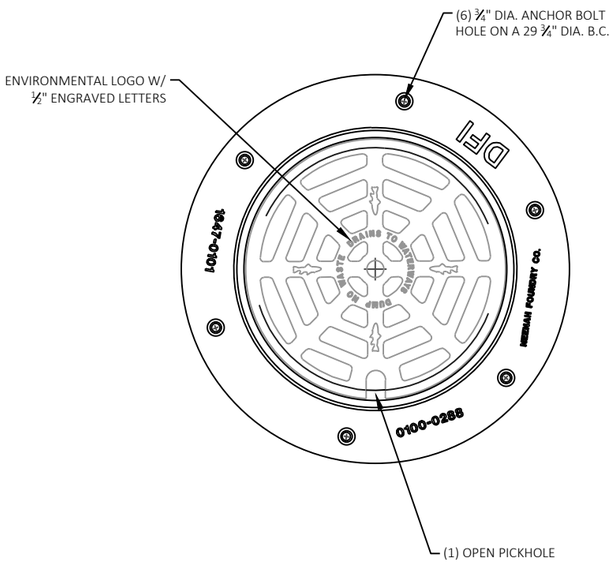


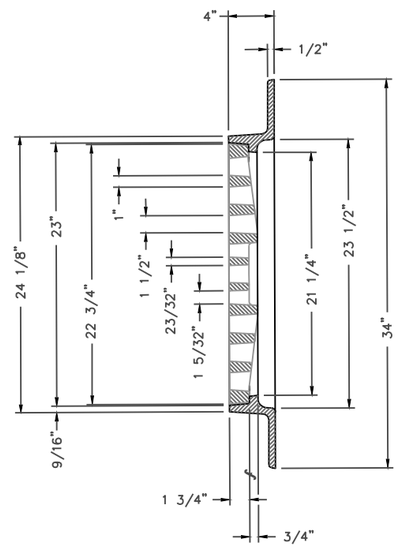
SECTION C-C

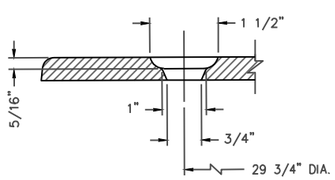
WATER MAIN/STORM SEWER TRENCHING AREAS

DRIVEWAY DETAILS

NTS





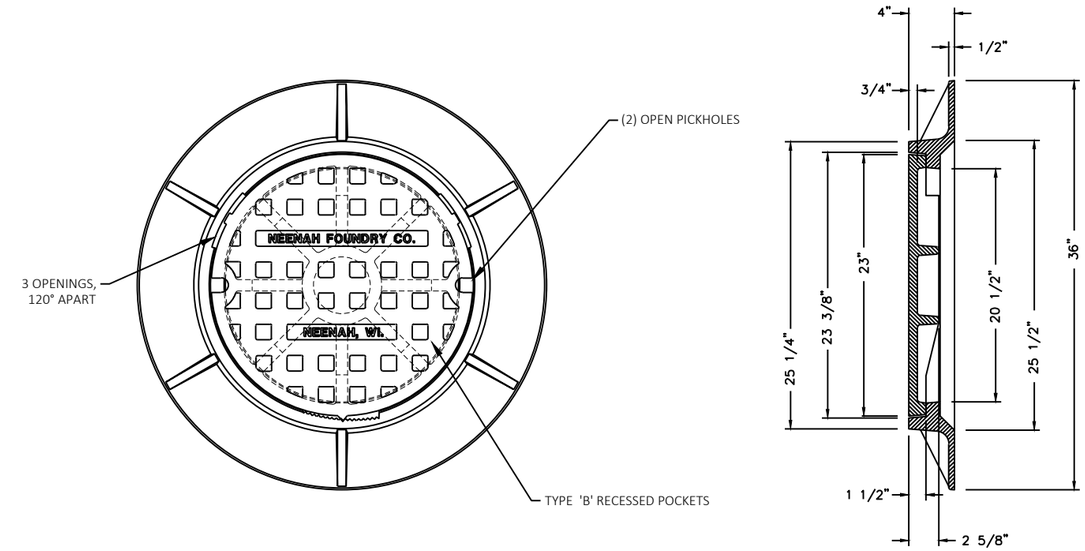


ANCHOR HOLE DETAIL

HALF SCALE

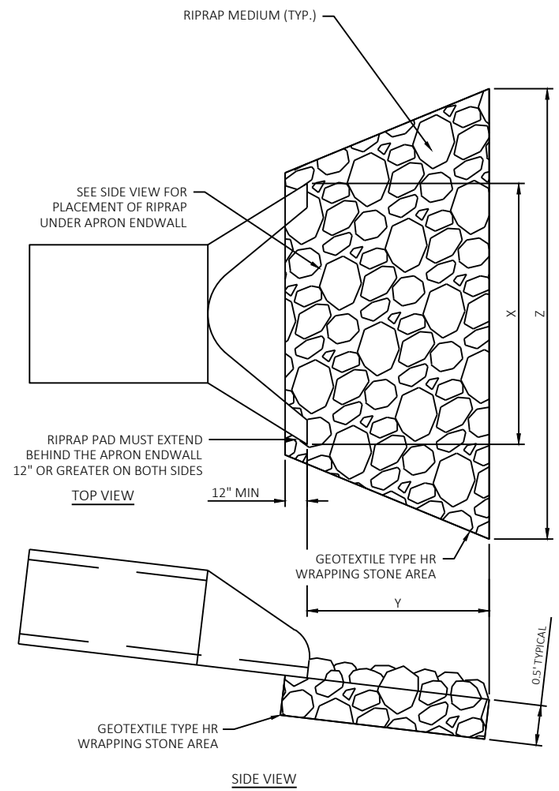
INLET COVERS SPECIAL

NOT TO SCALE



MANHOLE COVERS SPECIAL

NOT TO SCALE

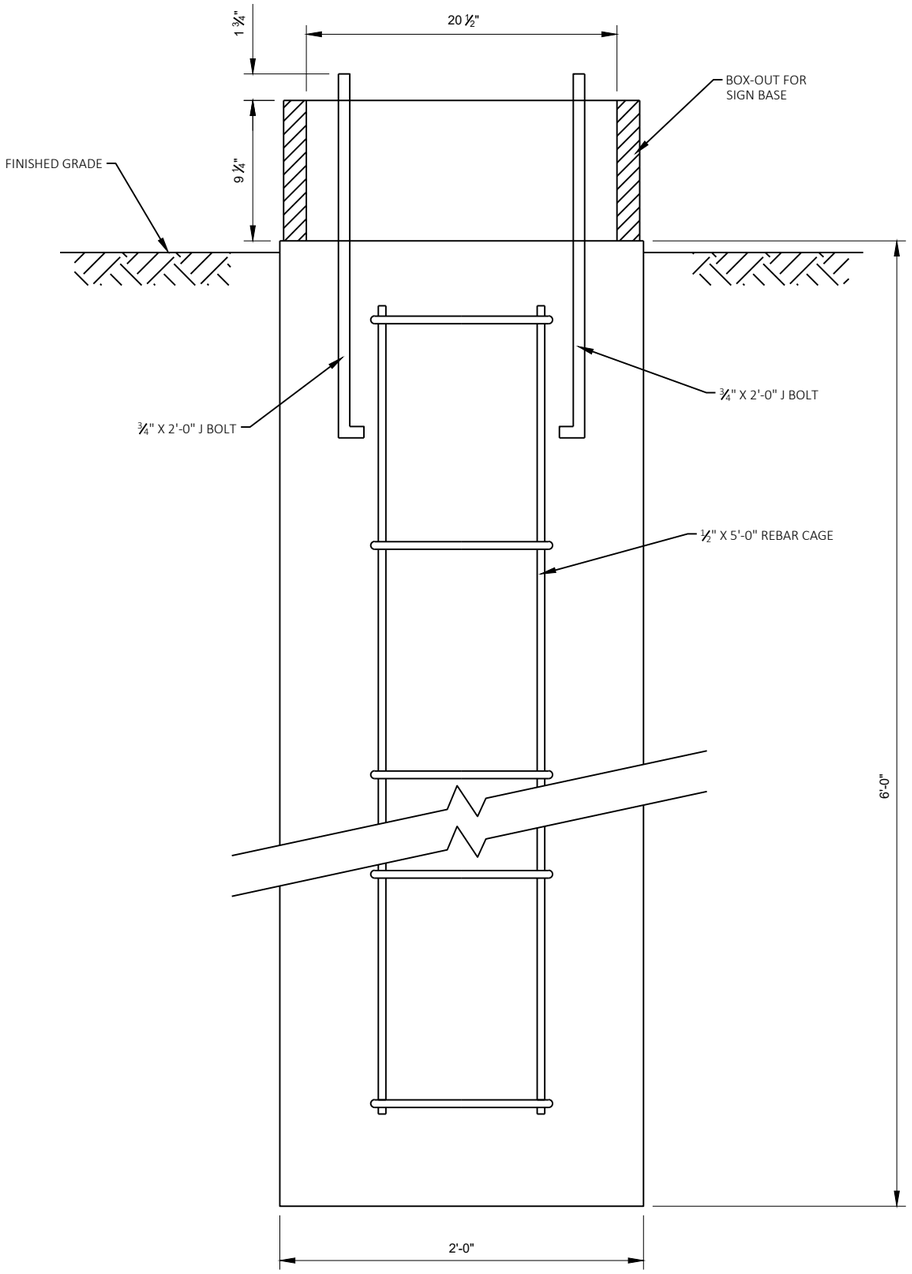


DIA (INCH)	X (INCH)	Y (INCH)	Z (INCH)
12	24	120	48
15	30	120	60
18	36	120	60
21	42	120	72
24	48	120	72
27	54	120	81
30	60	120	90
36	72	120	108
42	78	120	120
48	84	120	120
54	90	120	150
60	96	120	162
66	102	120	174
72	108	120	186

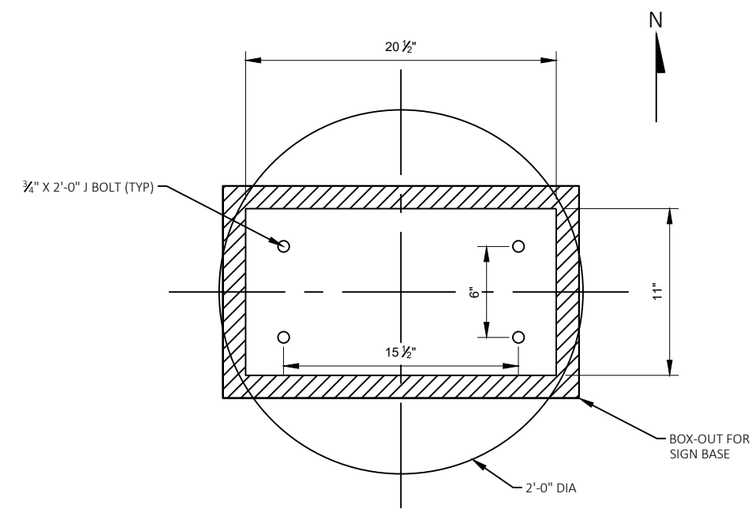
NOTES:
1) STANDARD SPECIFICATION SHALL APPLY TO ALL INSTALLATIONS.

RIPRAP AT ENDWALLS

NOT TO SCALE
SEE EROSION CONTROL PLAN AND MISCELLANEOUS QUANTITIES FOR LOCATIONS



ELEVATION VIEW - LOOKING NORTH

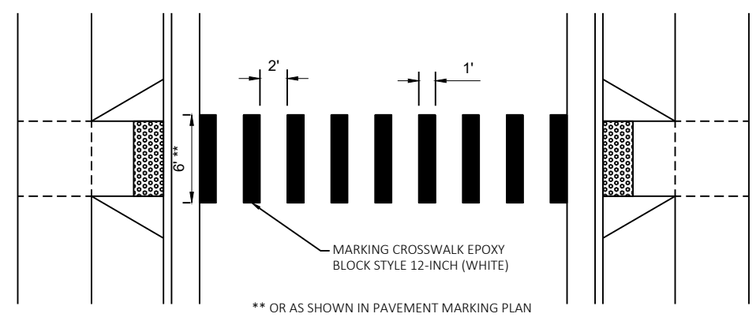


PLAN VIEW

CONCRETE BASE SPECIAL

DOCTORS PARK SIGN
NTS

2



BLOCK STYLE CROSSWALK PAVEMENT MARKING DETAIL

SEE PAVEMENT MARKING PLAN FOR LOCATIONS AND MARKING TYPES

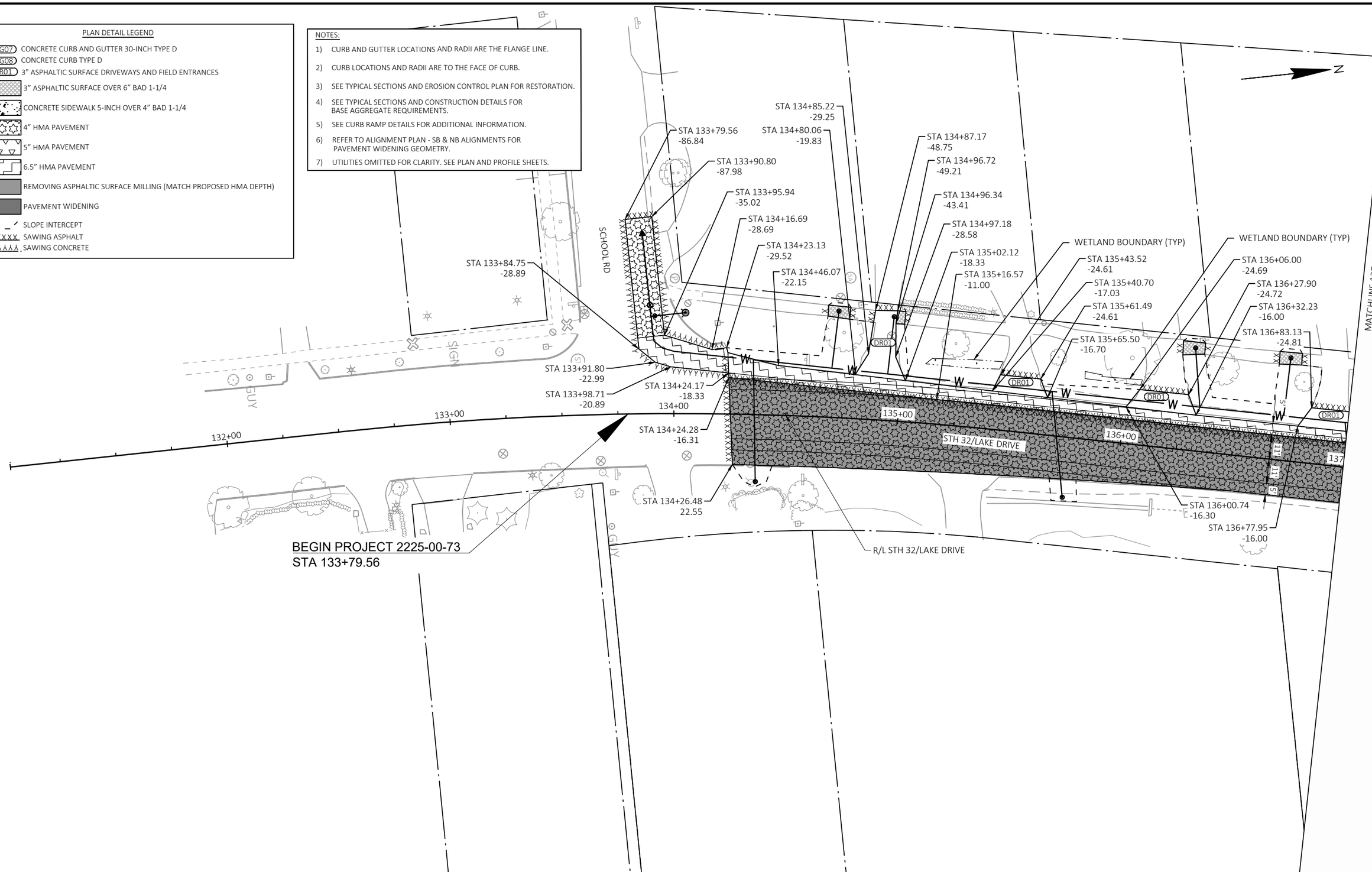
2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
- 4" HMA PAVEMENT
- 5" HMA PAVEMENT
- 6.5" HMA PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING (MATCH PROPOSED HMA DEPTH)
- PAVEMENT WIDENING
- SLOPE INTERCEPT
- XXXXX SAWING ASPHALT
- ЖЖЖЖЖ SAWING CONCRETE

NOTES:

1) CURB AND GUTTER LOCATIONS AND RADII ARE THE FLANGE LINE.
2) CURB LOCATIONS AND RADII ARE TO THE FACE OF CURB.
3) SEE TYPICAL SECTIONS AND EROSION CONTROL PLAN FOR RESTORATION.
4) SEE TYPICAL SECTIONS AND CONSTRUCTION DETAILS FOR BASE AGGREGATE REQUIREMENTS.
5) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.
6) REFER TO ALIGNMENT PLAN - SB & NB ALIGNMENTS FOR PAVEMENT WIDENING GEOMETRY.
7) UTILITIES OMITTED FOR CLARITY. SEE PLAN AND PROFILE SHEETS.



2

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 25	E

2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
- 4" HMA PAVEMENT
- 5" HMA PAVEMENT
- 6.5" HMA PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING (MATCH PROPOSED HMA DEPTH)
- PAVEMENT WIDENING
- SLOPE INTERCEPT
- SAWING ASPHALT
- SAWING CONCRETE

NOTES:

1) CURB AND GUTTER LOCATIONS AND RADII ARE THE FLANGE LINE.
2) CURB LOCATIONS AND RADII ARE TO THE FACE OF CURB.
3) SEE TYPICAL SECTIONS AND EROSION CONTROL PLAN FOR RESTORATION.
4) SEE TYPICAL SECTIONS AND CONSTRUCTION DETAILS FOR BASE AGGREGATE REQUIREMENTS.
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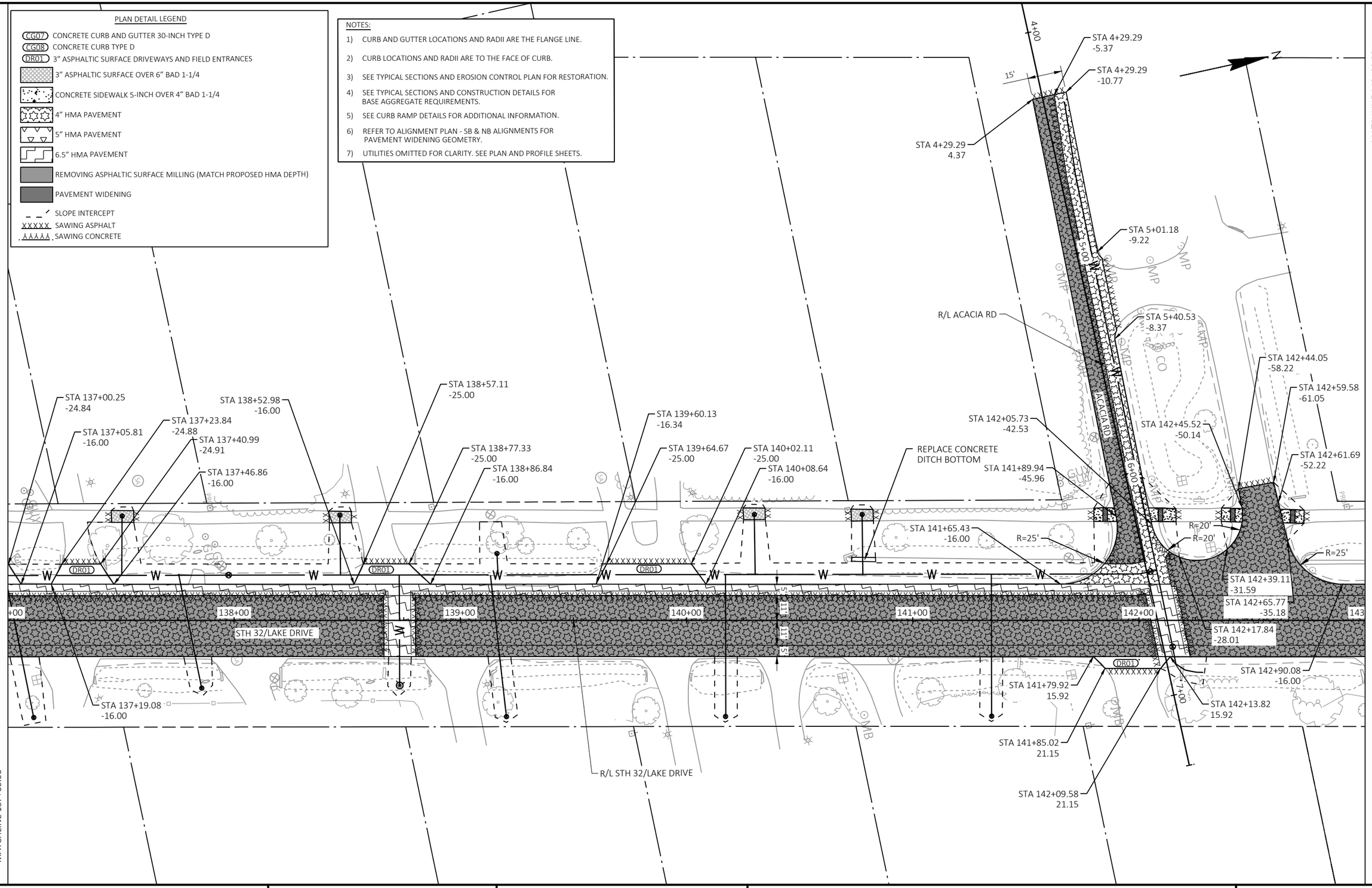
7) UTILITIES OMITTED FOR CLARITY. SEE PLAN AND PROFILE SHEETS.



2

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 26	E

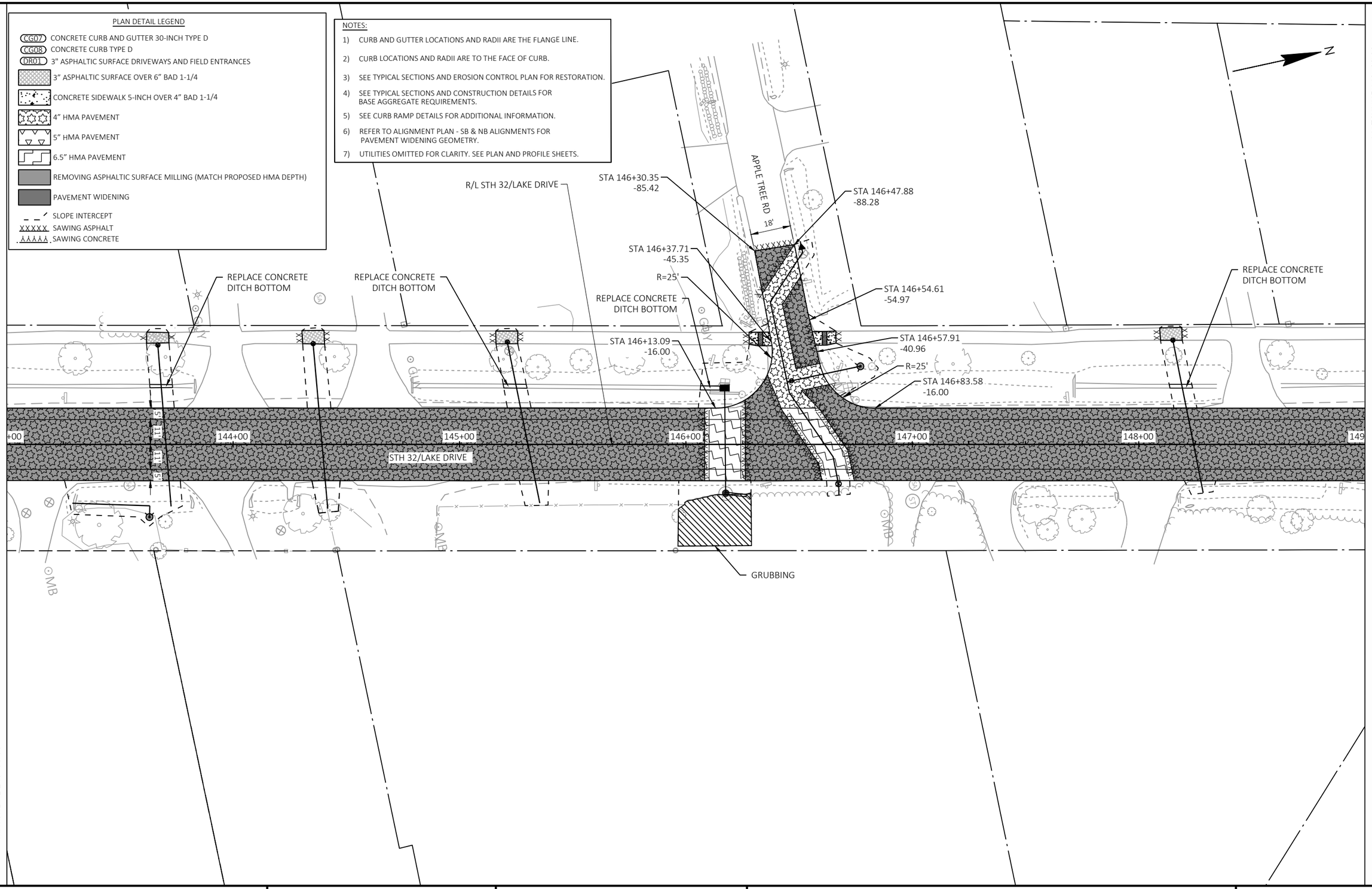
2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
- 4" HMA PAVEMENT
- 5" HMA PAVEMENT
- 6.5" HMA PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING (MATCH PROPOSED HMA DEPTH)
- PAVEMENT WIDENING
- SLOPE INTERCEPT
- SAWING ASPHALT
- SAWING CONCRETE

NOTES:

1) CURB AND GUTTER LOCATIONS AND RADII ARE THE FLANGE LINE.
2) CURB LOCATIONS AND RADII ARE TO THE FACE OF CURB.
3) SEE TYPICAL SECTIONS AND EROSION CONTROL PLAN FOR RESTORATION.
4) SEE TYPICAL SECTIONS AND CONSTRUCTION DETAILS FOR BASE AGGREGATE REQUIREMENTS.
5) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.
6) REFER TO ALIGNMENT PLAN - SB & NB ALIGNMENTS FOR PAVEMENT WIDENING GEOMETRY.
7) UTILITIES OMITTED FOR CLARITY. SEE PLAN AND PROFILE SHEETS.



PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 27	E

2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
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- SAWING ASPHALT
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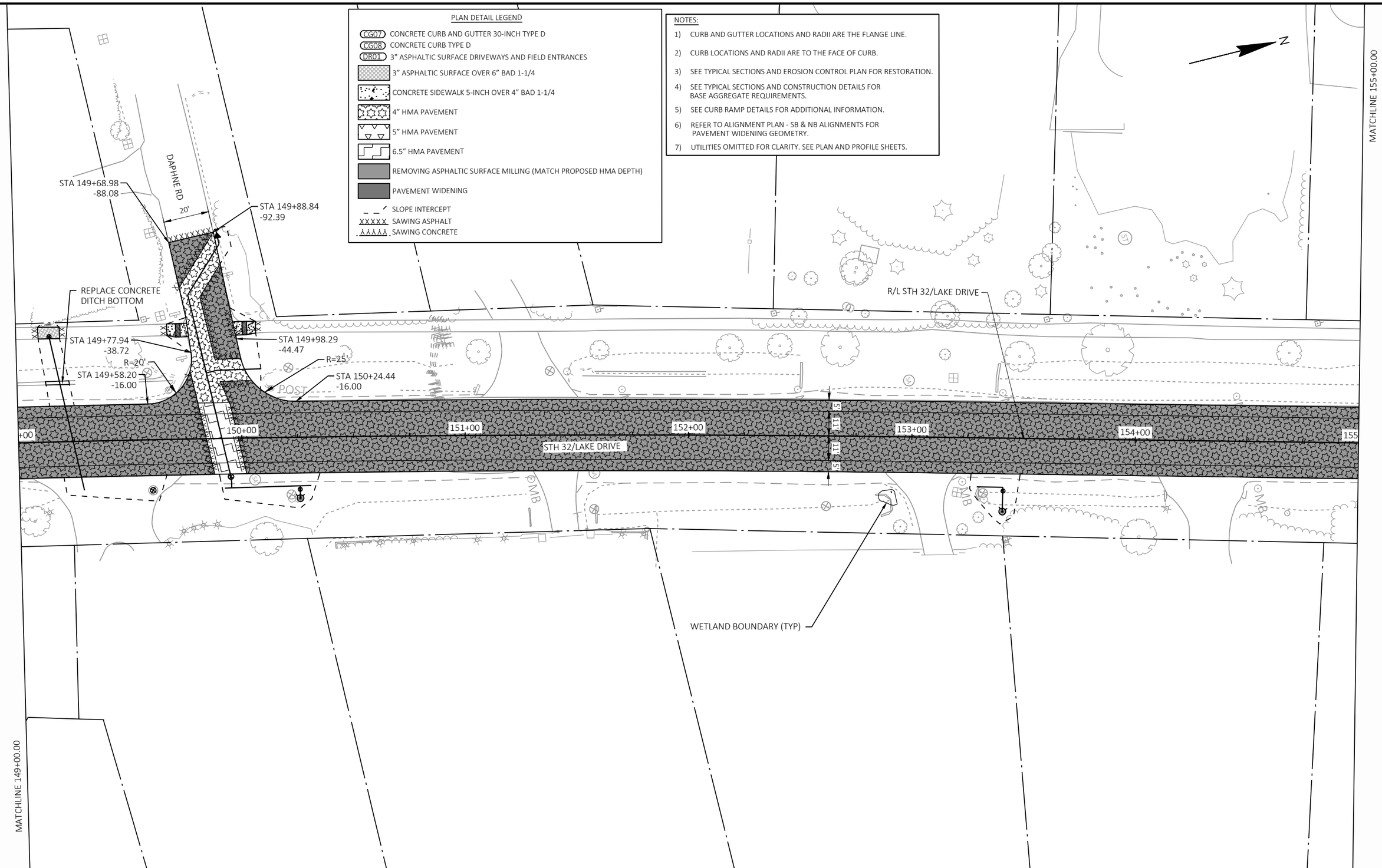

2

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 28	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD(4)
PLOT DATE : 10/14/2024 6:17 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
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- 4" HMA PAVEMENT
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- PAVEMENT WIDENING
- SLOPE INTERCEPT
- XXXXX SAWING ASPHALT
- SAWING CONCRETE

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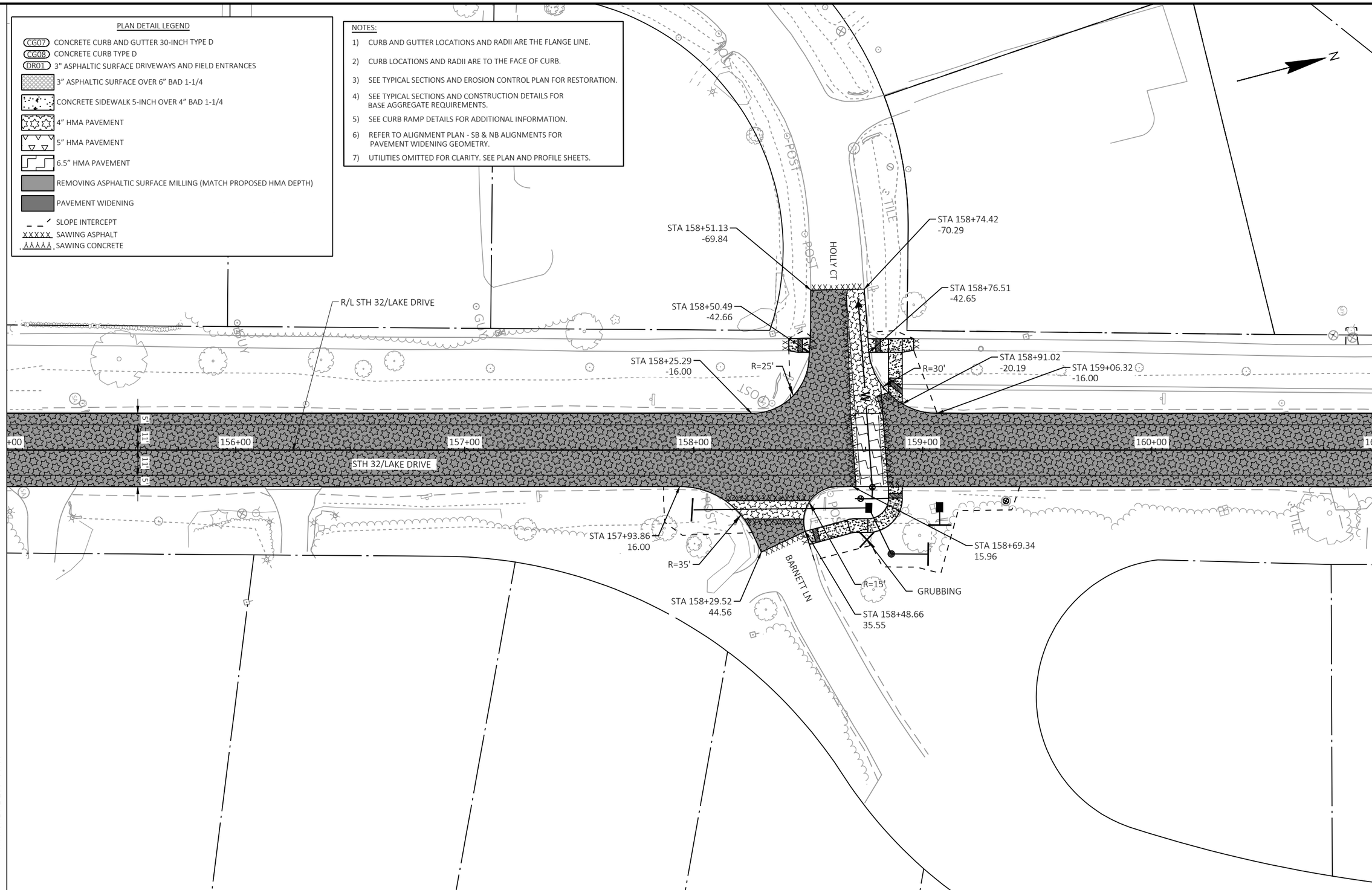

2

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 29	E

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
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- 5" HMA PAVEMENT
- 6.5" HMA PAVEMENT
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- PAVEMENT WIDENING
- SLOPE INTERCEPT
- SAWING ASPHALT
- SAWING CONCRETE

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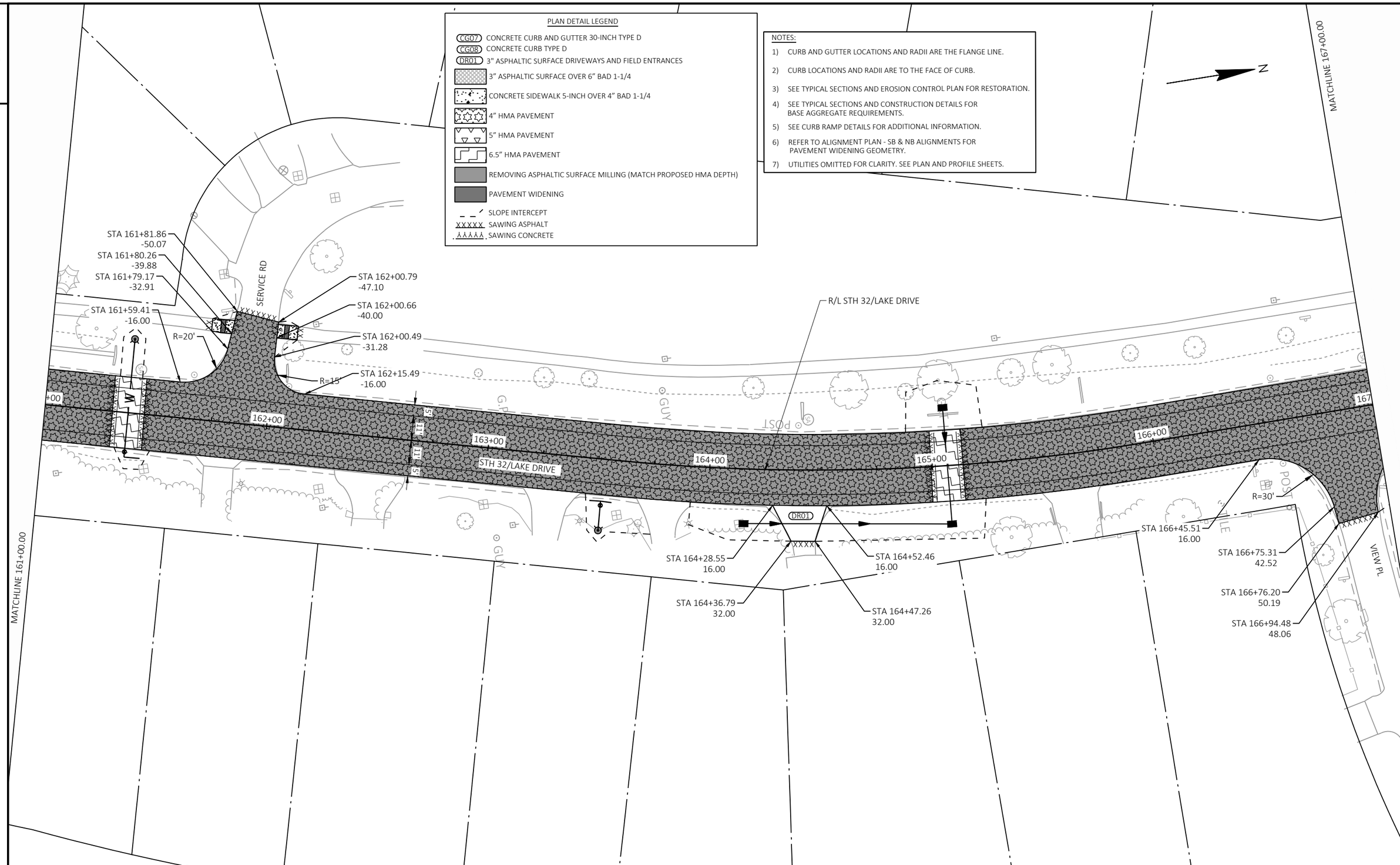

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 30	E

2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
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- 4" HMA PAVEMENT
- 5" HMA PAVEMENT
- 6.5" HMA PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING (MATCH PROPOSED HMA DEPTH)
- PAVEMENT WIDENING
- SLOPE INTERCEPT
- XXXXX SAWING ASPHALT
- ΔΔΔΔΔ SAWING CONCRETE

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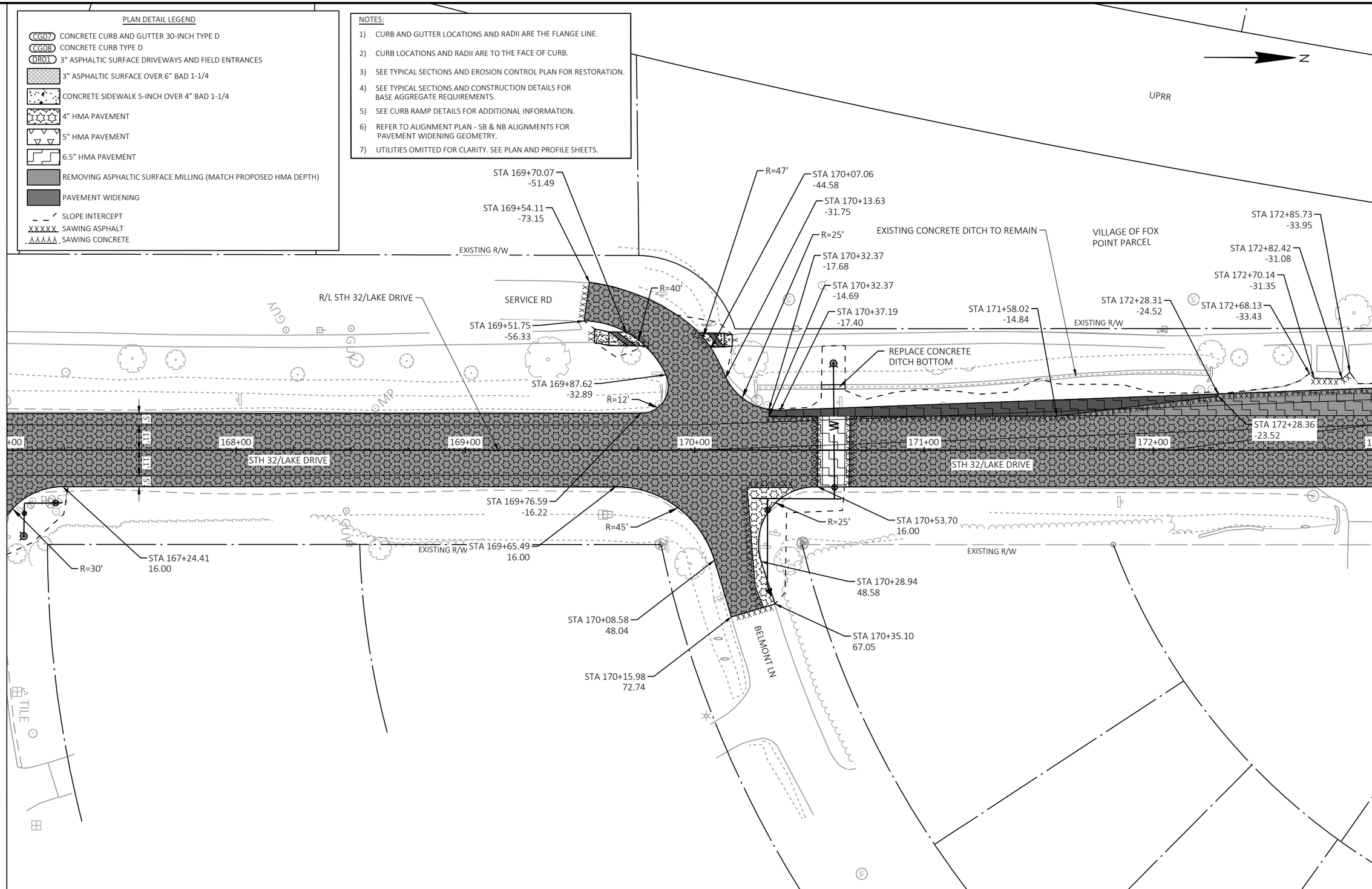

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 31	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD(7)
PLOT DATE : 10/14/2024 6:18 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

BEGIN CONSTRUCTION
STA 48+78.30

NOTES:

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PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
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- PAVEMENT WIDENING
- SLOPE INTERCEPT
- SAWING ASPHALT
- SAWING CONCRETE

N

MATCHLINE 179+00.00

STA 174+26.48 -123.83
STA 174+27.26 -106.30
STA 174+26.26 -106.29
STA 174+08.30 -126.34
STA 174+10.20 -122.04
STA 174+10.34 -103.46
STA 174+27.74 -74.64
STA 173+50.72 -106.57 R=60'
STA 174+10.48 -57.78
STA 174+09.54 -58.11
STA 173+90.77 -62.30
STA 173+70.28 -67.00 R=40'
STA 173+77.98 -50.73
STA 173+70.28 -27.00
STA 174+12.22 -29.23
STA 174+12.22 -26.00
STA 174+32.46 -26.00
SEE DETAIL 1
STA 173+98.53 16.00
STA 173+98.53 46.00 R=30'
GRUBBING
STA 174+28.53 45.55
STA 174+18.20 82.83
END CONSTRUCTION
STA 50+46.04
STA 174+29.83 80.91
STA 174+17.96 101.05
STA 174+30.64 102.72

UPRR
VILLAGE OF FOX POINT PARCEL
GREEN TREE RD
49+00
50+00
51+00
R/L GREEN TREE RD
STA 174+65.48 -118.32
STA 174+59.03 -105.42
STA 174+59.20 -90.84
STA 174+23.45 -61.58
STA 174+31.93 -61.71
STA 174+56.85 -67.52
STA 174+58.85 -67.55
STA 174+88.84 -68.00 R=30'
STA 174+88.84 -38.00
STA 174+57.32 -36.00
STA 174+88.84 -36.00
STA 174+88.84 -27.00
STA 174+88.04 16.00
R=30'
STA 174+58.05 46.45
R/L GREEN TREE RD
CG08
CG07
DR01
11'
5'
6'
STA 175+95.06 -43.00
STA 175+95.06 -38.00
STA 175+88.66 -27.00
STA 177+20.34 -22.34
R/L STH 32/LAKE DRIVE
STA 177+84.00 -15.00
EXISTING R/W
STA 178+77.40 -16.48
STA 178+77.40 -15.00
174+00
175+00
176+00
177+00
178+00
179
STH 32/LAKE DRIVE
EXISTING R/W
WETLAND BOUNDARY (TYP)

MATCHLINE 173+00.00

DETAIL 1

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 32	E

2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
- 4" HMA PAVEMENT
- 5" HMA PAVEMENT
- 6.5" HMA PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING (MATCH PROPOSED HMA DEPTH)
- PAVEMENT WIDENING
- SLOPE INTERCEPT
- SAWING ASPHALT
- SAWING CONCRETE

NOTES:

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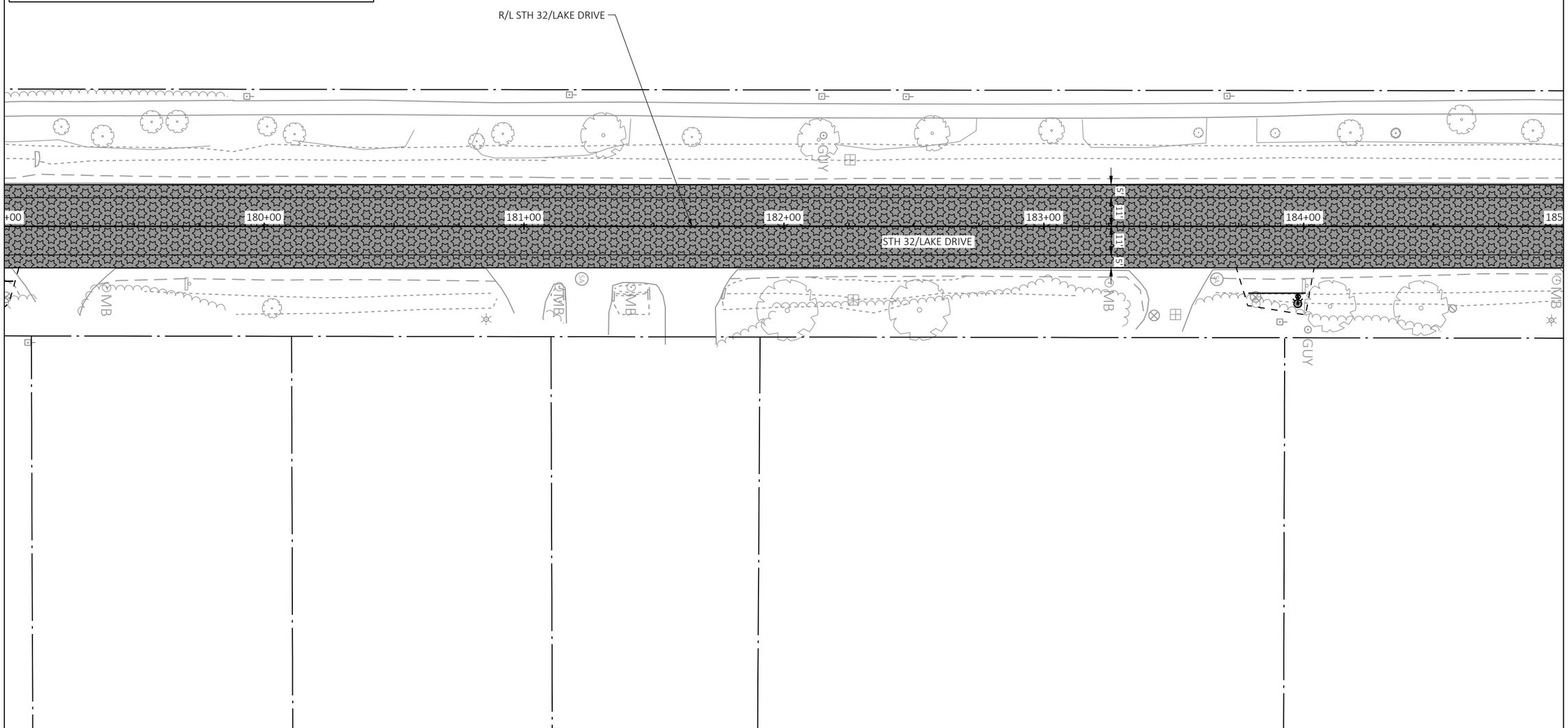

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 33	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD(9)
PLOT DATE : 10/14/2024 6:18 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
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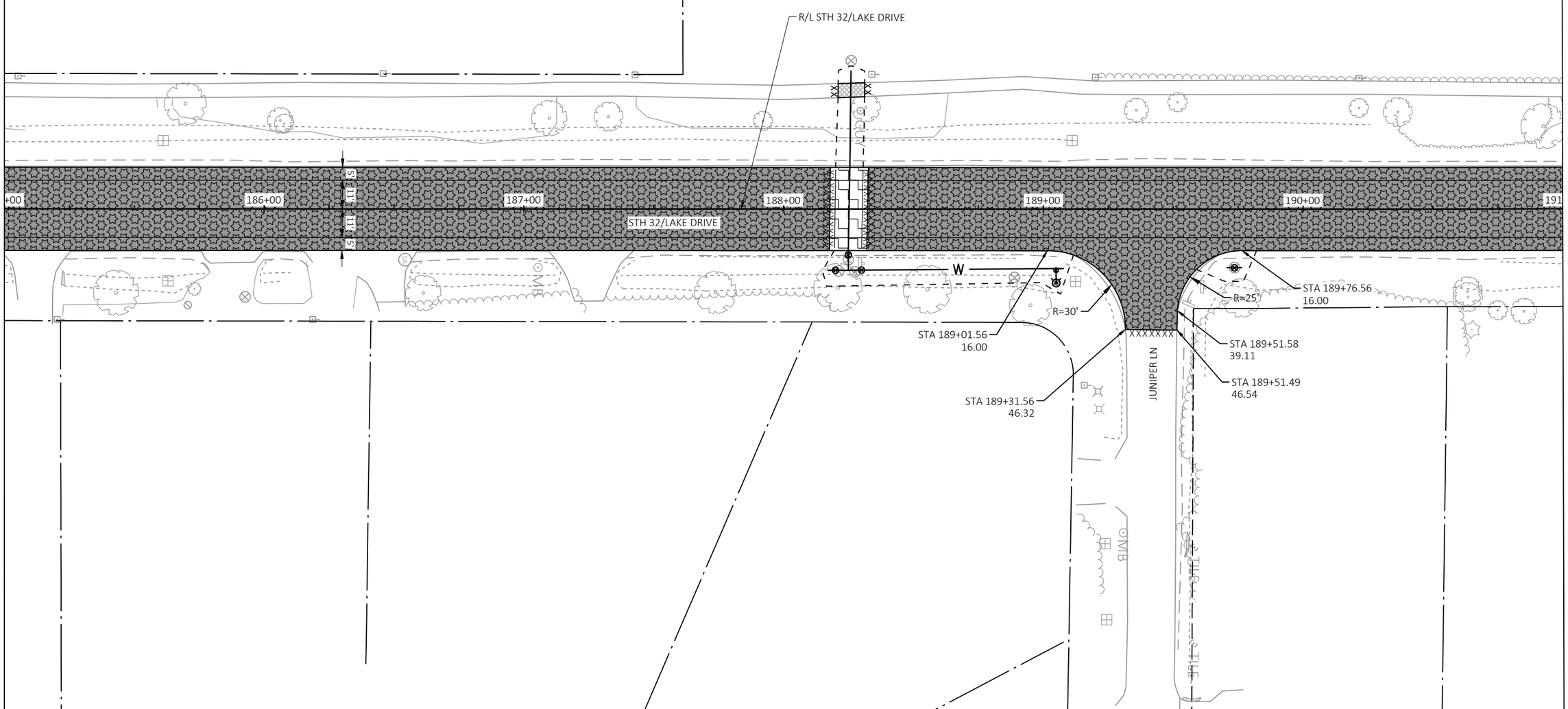

2

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 34	E

2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
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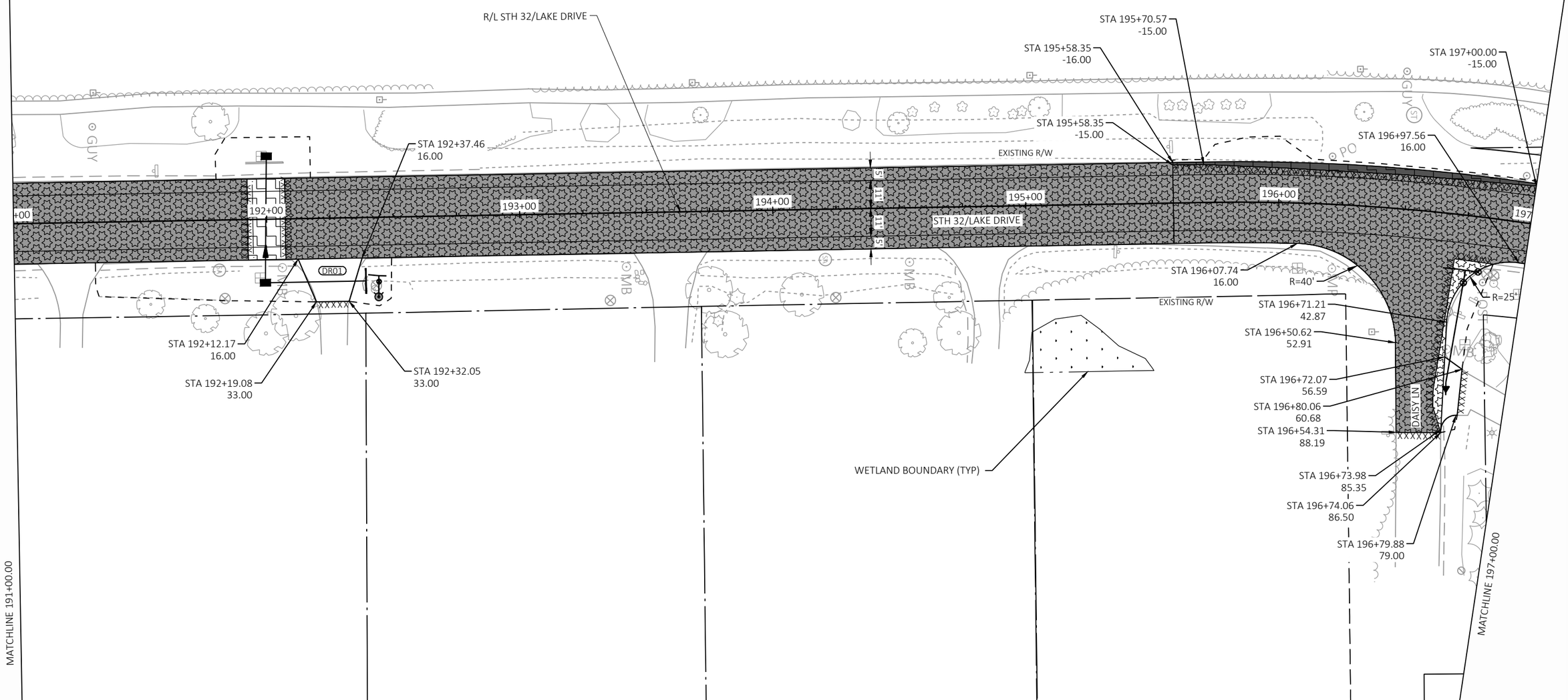
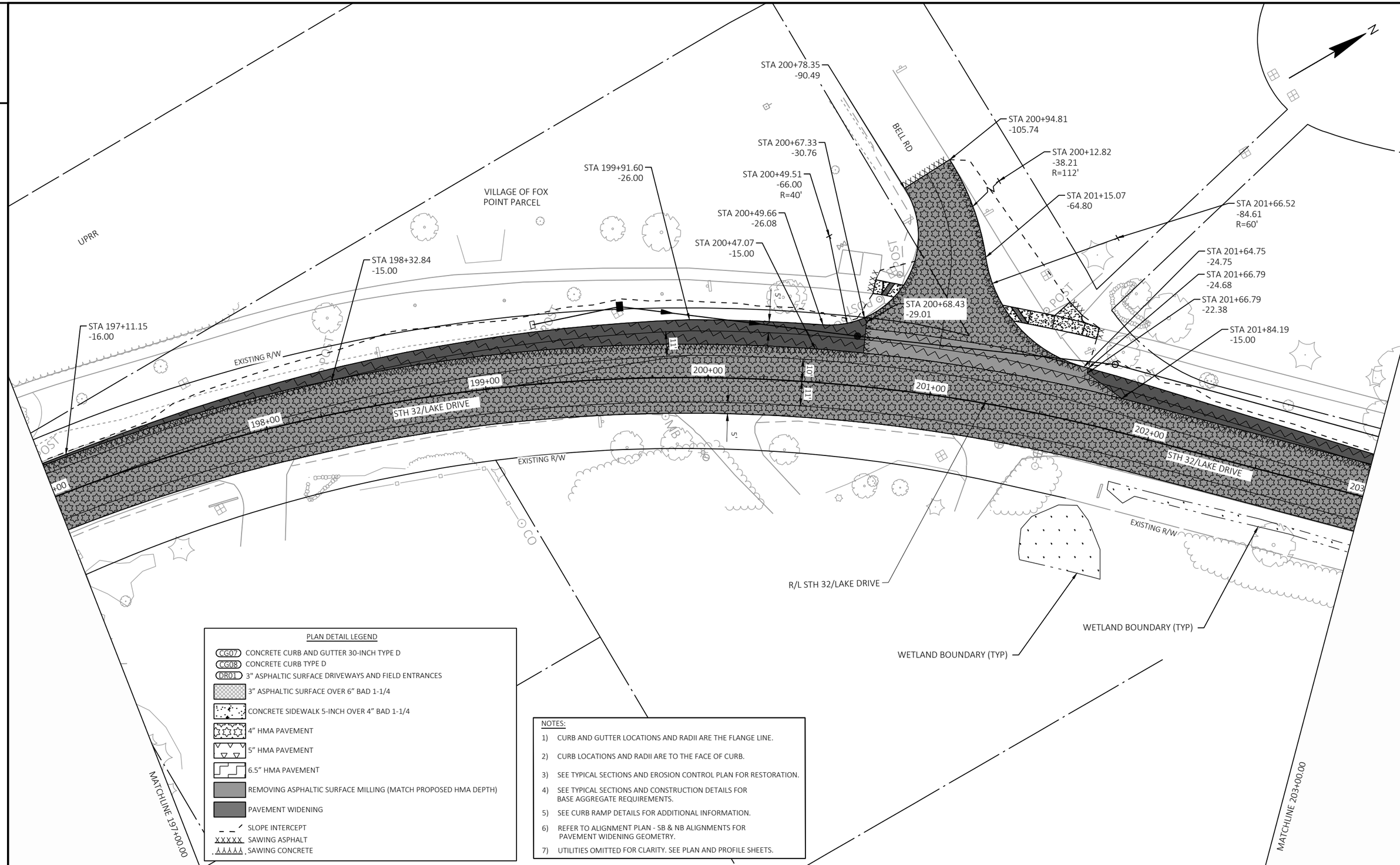


2

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 35	E



PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
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PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 36	E

2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
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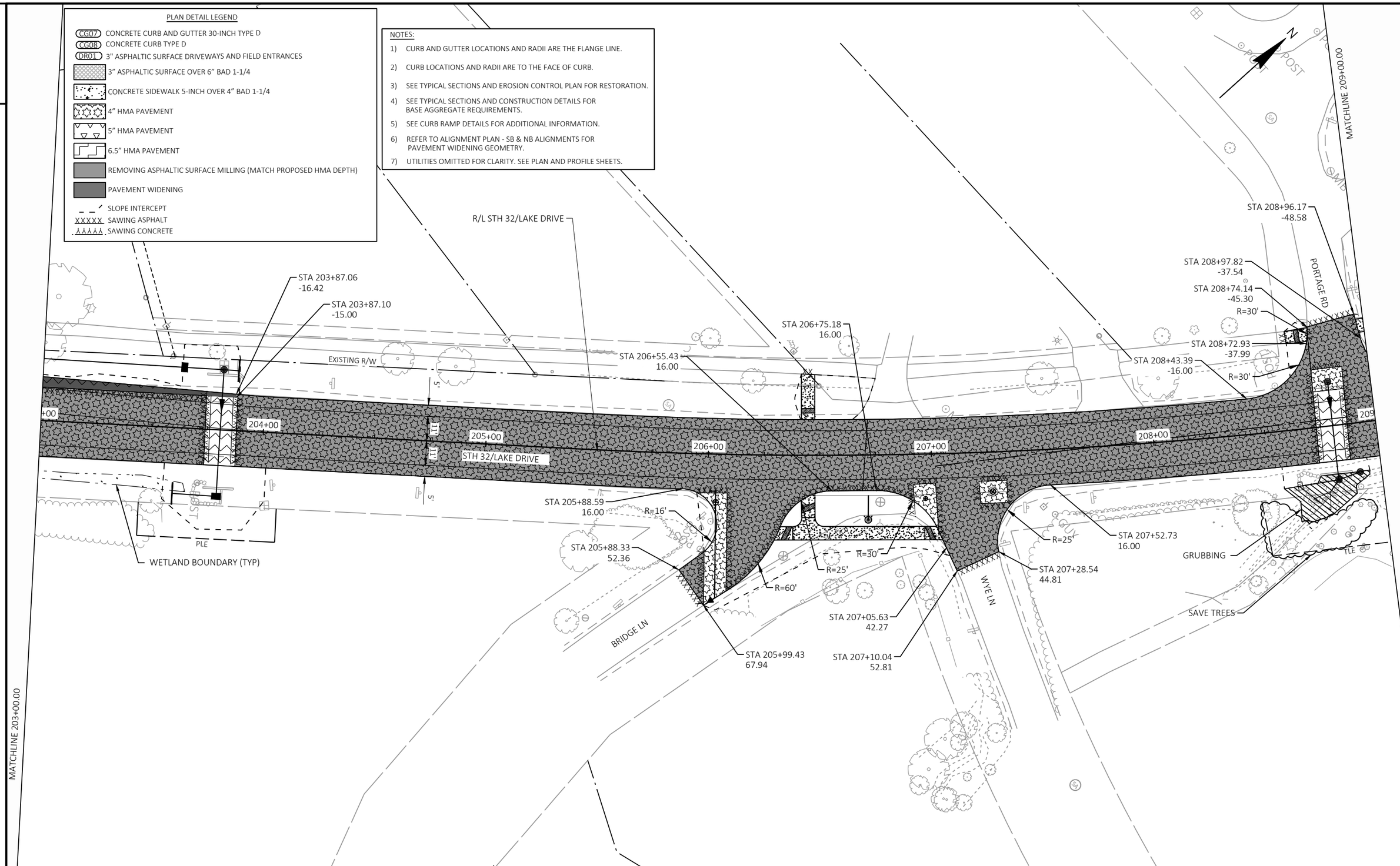

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 37	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD(13)
PLOT DATE : 10/14/2024 6:19 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
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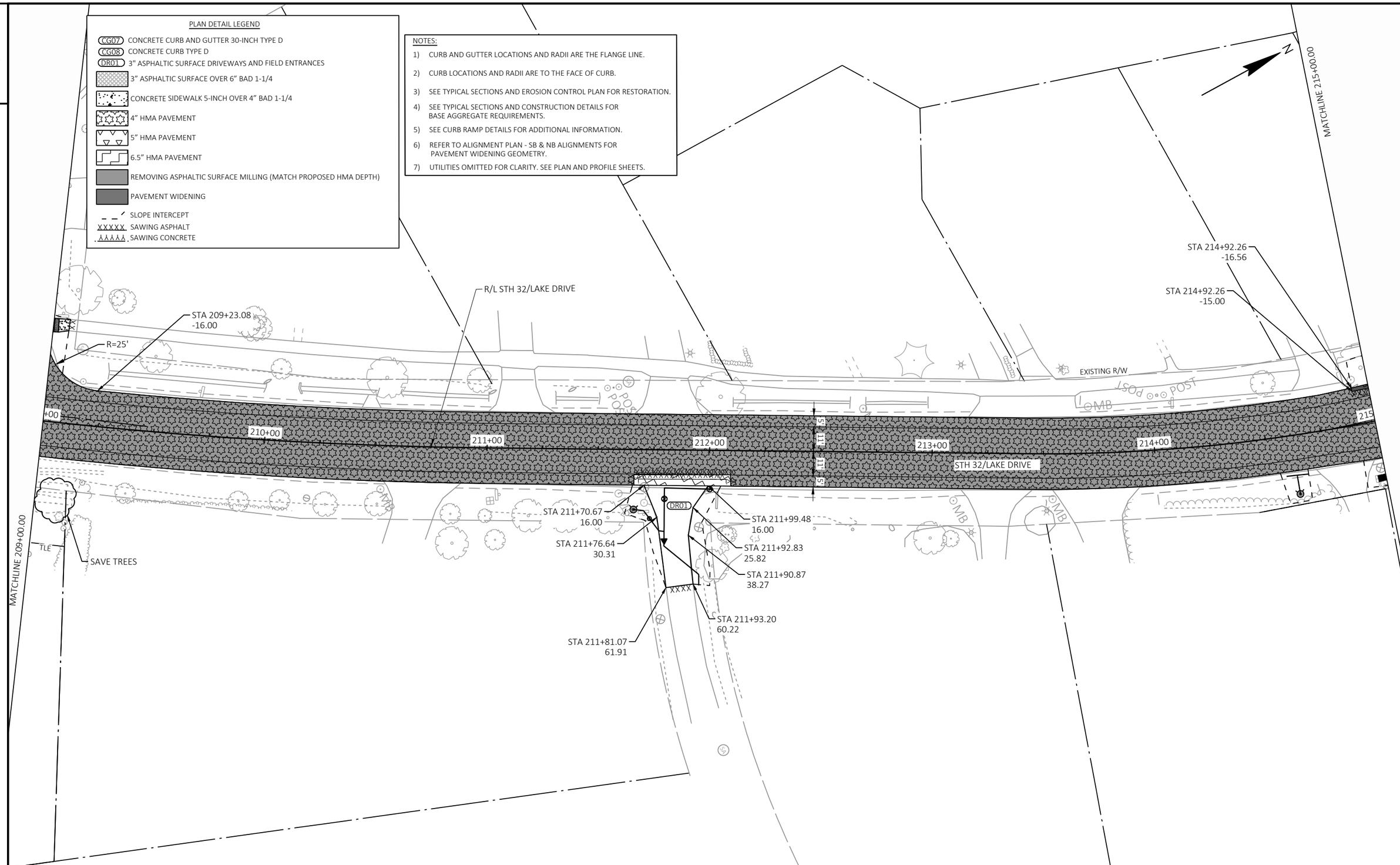

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 38	E

2

MATCHLINE 215+00.00

MATCHLINE 221+00.00

N

CALUMET RD

STA 215+04.92
16.00

STA 216+10.55
-34.27

STA 216+10.49
-32.86

STA 216+11.18
-26.83

STA 215+96.00
-34.58

STA 216+11.62
-21.00

STA 215+94.88
-33.71

STA 215+95.13
-27.68

STA 216+15.95
-21.00

STA 215+91.31
-20.24

PLANTINGS TO
REMIAN

TLE

DR01

STA 217+29.89
-50.94

STA 217+28.82
-50.95

STA 217+29.64
-25.62

TREE TO REMAIN

STA 216+96.63
-51.00
R=30'

STA 217+05.94
-15.00

STA 217+62.11
-50.59

STA 217+63.11
-50.58

STA 217+61.87
-29.13

STA 217+93.10
-49.89
R=30'

STA 217+85.19
-15.00

TREE TO REMAIN

STA 218+90.91
-16.25

STA 218+90.91
-15.00

TREE TO REMAIN

PLE

EXISTING R/W

STA 219+69.29
-16.00

STA 219+62.50
-16.00

STA 219+58.55
-28.04

STA 219+39.35
-28.33

STA 219+35.35
-16.00

GRUBBING

STA 219+73.29
-28.94

STA 220+87.60
-29.38

STA 220+83.56
-16.00

STA 219+89.56
-29.25

STA 220+74.49
-16.00

STA 219+93.56
-16.00

STA 220+70.45
-29.49

STA 220+52.96
-28.86

STA 220+48.92
-16.00

216+00

217+00

218+00

219+00

220+00

221

STH 32/LAKE DRIVE

R/L STH 32/LAKE DRIVE

EXISTING R/W

STA 215+04.92
17.03

GRUBBING

STA 216+11.64
21.00

STA 216+18.58
21.00

STA 216+30.17
16.00

PINE TREE TO REMAIN

STA 216+18.58
46.00
R=25'

STA 216+38.58
32.51

STA 216+39.77
31.76

STA 216+40.98
80.51

THORNE LN

STA 216+57.63
83.00

STA 216+59.73
47.41

STA 216+60.67
47.44

STA 216+60.32
28.16

STA 216+84.30
46.00
R=25'

STA 216+72.91
15.00

STA 217+62.61
21.00

STA 218+13.31
19.12

STA 218+16.08
23.02

STA 218+39.34
18.16

STA 218+37.48
22.23

STA 219+00.00
15.00

STA 219+00.00
16.00

GRUBBING

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
- 4" HMA PAVEMENT
- 5" HMA PAVEMENT
- 6.5" HMA PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING (MATCH PROPOSED HMA DEPTH)
- PAVEMENT WIDENING
- SLOPE INTERCEPT
- SAWING ASPHALT
- SAWING CONCRETE

NOTES:

1) CURB AND GUTTER LOCATIONS AND RADII ARE THE FLANGE LINE.
2) CURB LOCATIONS AND RADII ARE TO THE FACE OF CURB.
3) SEE TYPICAL SECTIONS AND EROSION CONTROL PLAN FOR RESTORATION.
4) SEE TYPICAL SECTIONS AND CONSTRUCTION DETAILS FOR BASE AGGREGATE REQUIREMENTS.
5) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.
6) REFER TO ALIGNMENT PLAN - SB & NB ALIGNMENTS FOR PAVEMENT WIDENING GEOMETRY.
7) UTILITIES OMITTED FOR CLARITY. SEE PLAN AND PROFILE SHEETS.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 39	E

2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
- 4" HMA PAVEMENT
- 5" HMA PAVEMENT
- 6.5" HMA PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING (MATCH PROPOSED HMA DEPTH)
- PAVEMENT WIDENING
- SLOPE INTERCEPT
- XXXXX SAWING ASPHALT
- ΛΛΛΛΛ SAWING CONCRETE

NOTES:

1) CURB AND GUTTER LOCATIONS AND RADII ARE THE FLANGE LINE.
2) CURB LOCATIONS AND RADII ARE TO THE FACE OF CURB.
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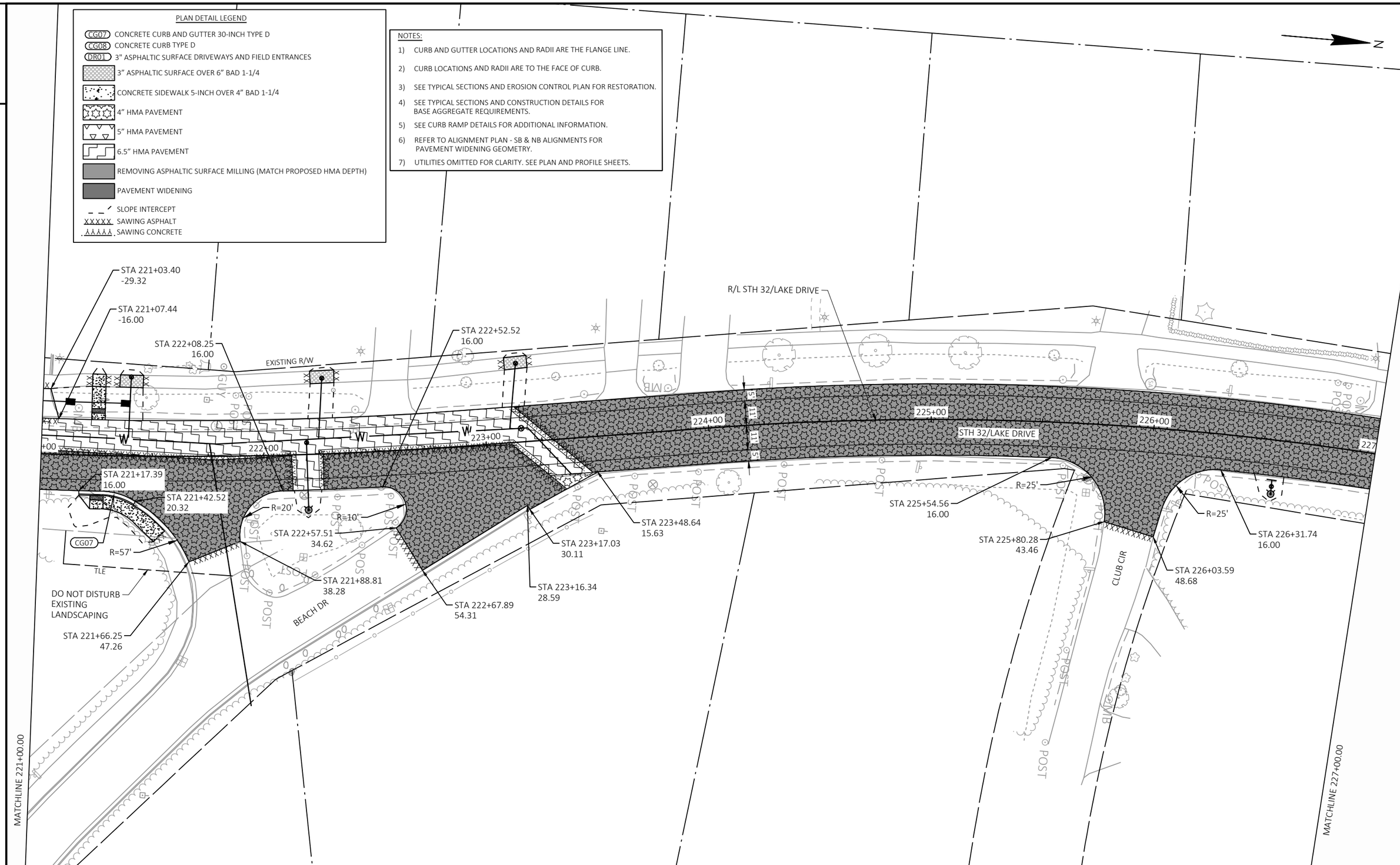
5) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.
6) REFER TO ALIGNMENT PLAN - SB & NB ALIGNMENTS FOR PAVEMENT WIDENING GEOMETRY.
7) UTILITIES OMITTED FOR CLARITY. SEE PLAN AND PROFILE SHEETS.



2

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 40	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD(16)
PLOT DATE : 10/14/2024 6:19 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
- 4" HMA PAVEMENT
- 5" HMA PAVEMENT
- 6.5" HMA PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING (MATCH PROPOSED HMA DEPTH)
- PAVEMENT WIDENING
- SLOPE INTERCEPT
- XXXXX SAWING ASPHALT
- ΛΛΛΛΛ SAWING CONCRETE

NOTES:

1) CURB AND GUTTER LOCATIONS AND RADII ARE THE FLANGE LINE.
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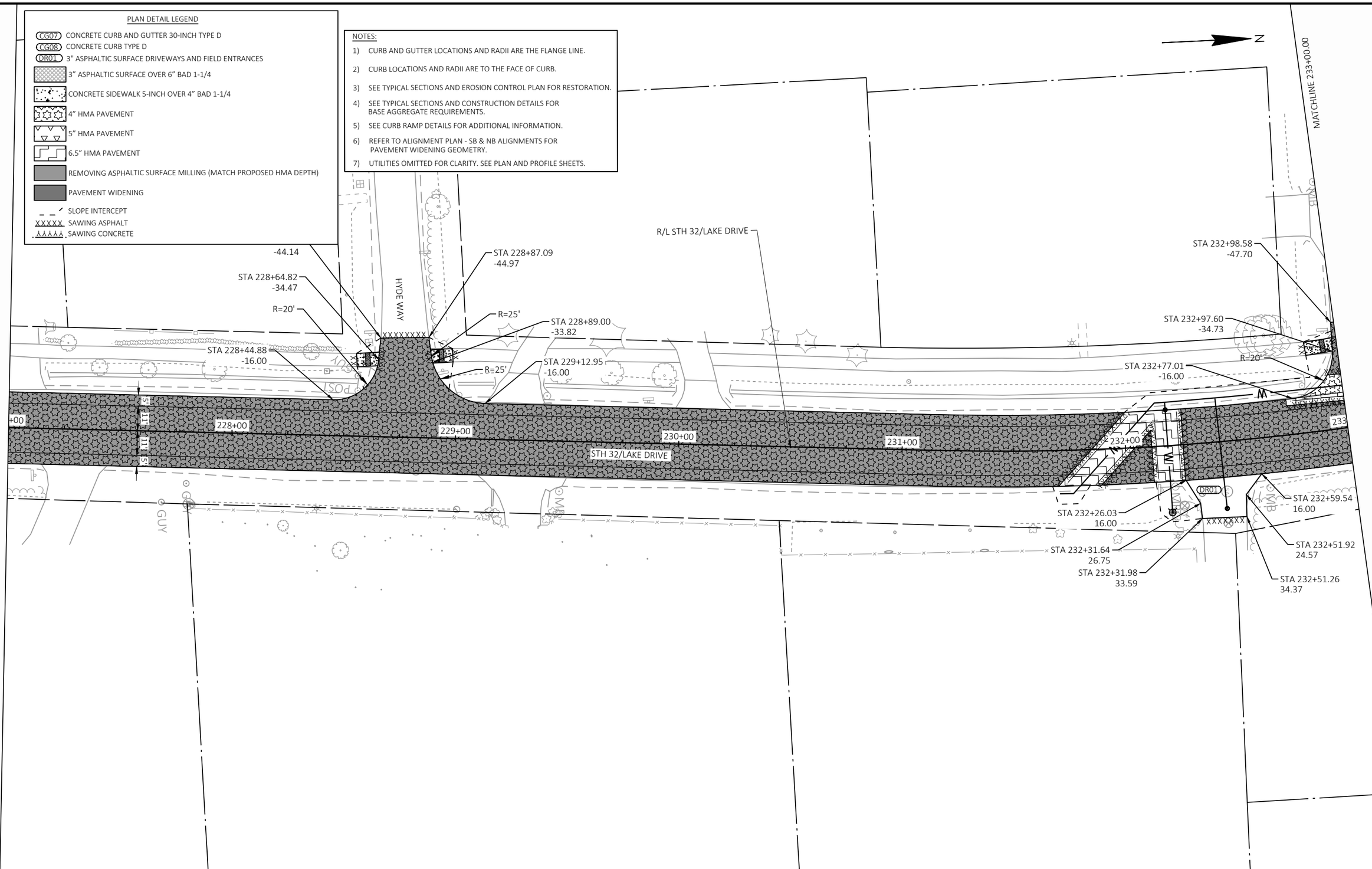
3) SEE TYPICAL SECTIONS AND EROSION CONTROL PLAN FOR RESTORATION.
4) SEE TYPICAL SECTIONS AND CONSTRUCTION DETAILS FOR BASE AGGREGATE REQUIREMENTS.
5) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.
6) REFER TO ALIGNMENT PLAN - SB & NB ALIGNMENTS FOR PAVEMENT WIDENING GEOMETRY.
7) UTILITIES OMITTED FOR CLARITY. SEE PLAN AND PROFILE SHEETS.



2

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 41	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD(17)
PLOT DATE : 10/14/2024 6:20 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
- 4" HMA PAVEMENT
- 5" HMA PAVEMENT
- 6.5" HMA PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING (MATCH PROPOSED HMA DEPTH)
- PAVEMENT WIDENING
- SLOPE INTERCEPT
- SAWING ASPHALT
- SAWING CONCRETE

NOTES:

1) CURB AND GUTTER LOCATIONS AND RADII ARE THE FLANGE LINE.
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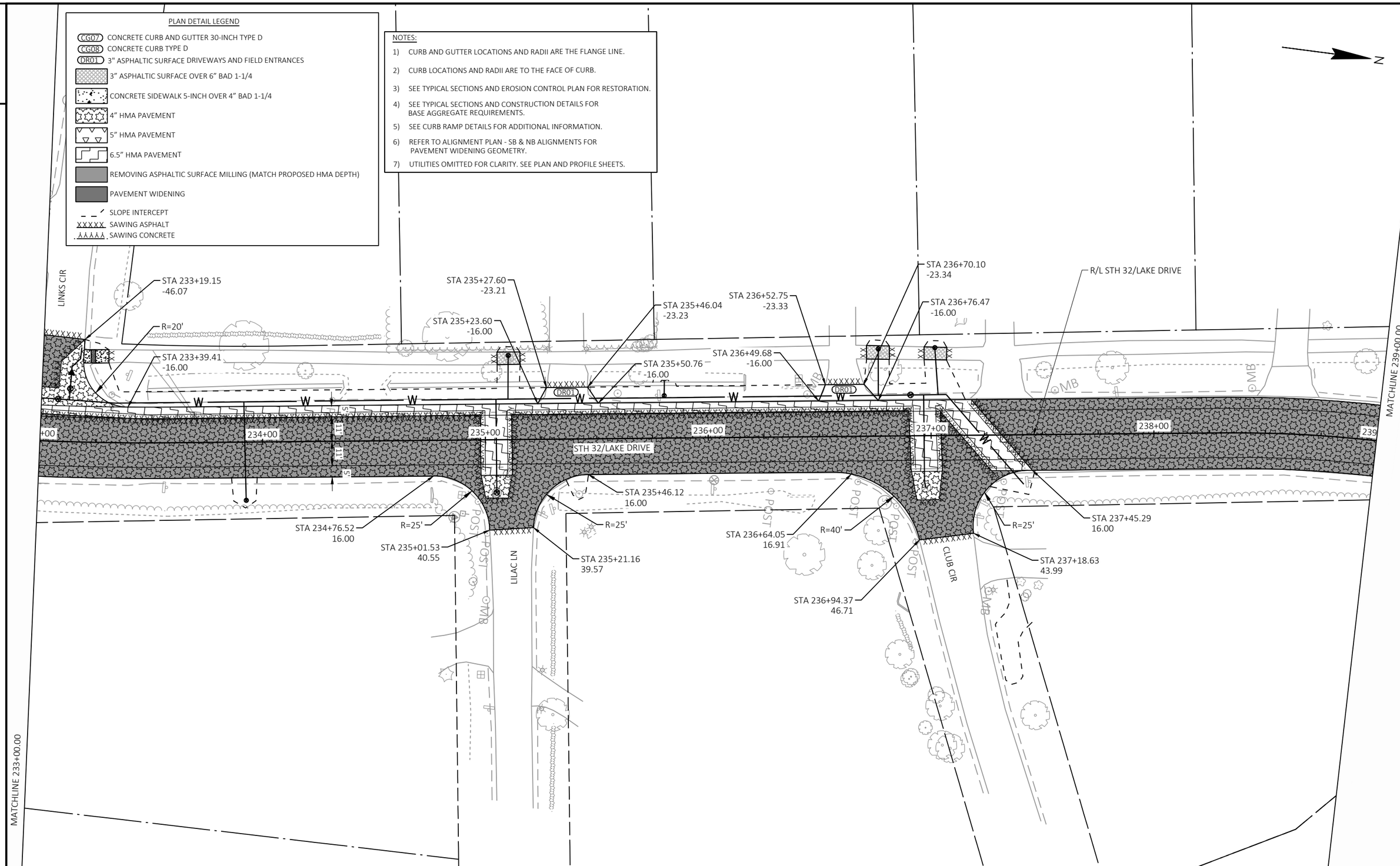
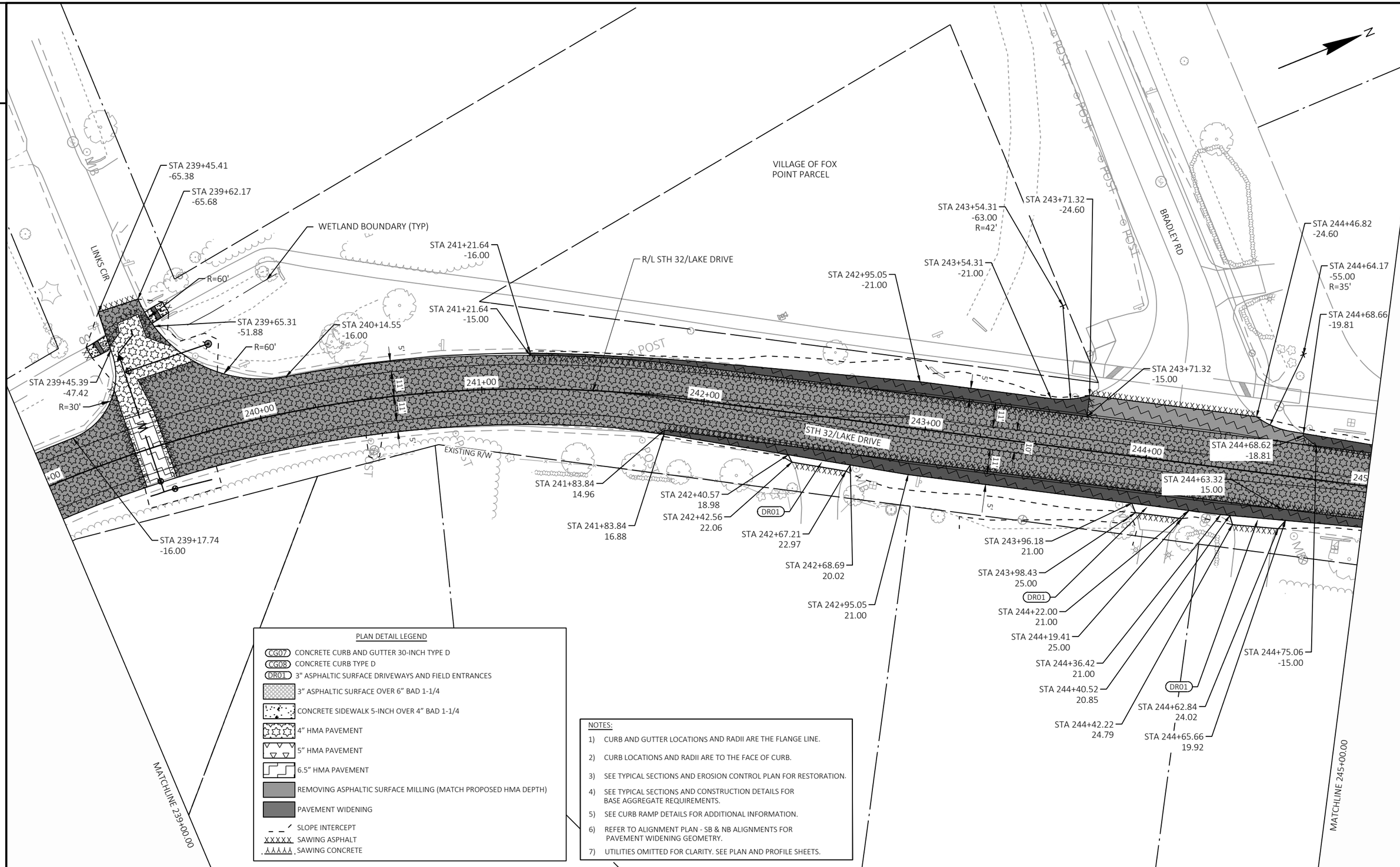
4) SEE TYPICAL SECTIONS AND CONSTRUCTION DETAILS FOR BASE AGGREGATE REQUIREMENTS.
5) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.
6) REFER TO ALIGNMENT PLAN - SB & NB ALIGNMENTS FOR PAVEMENT WIDENING GEOMETRY.
7) UTILITIES OMITTED FOR CLARITY. SEE PLAN AND PROFILE SHEETS.



PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 42	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD(18)
PLOT DATE : 10/14/2024 6:20 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
- 4" HMA PAVEMENT
- 5" HMA PAVEMENT
- 6.5" HMA PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING (MATCH PROPOSED HMA DEPTH)
- PAVEMENT WIDENING
- SLOPE INTERCEPT
- XXXXX SAWING ASPHALT
- SAWING CONCRETE

NOTES:

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5) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.
6) REFER TO ALIGNMENT PLAN - SB & NB ALIGNMENTS FOR PAVEMENT WIDENING GEOMETRY.
7) UTILITIES OMITTED FOR CLARITY. SEE PLAN AND PROFILE SHEETS.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 43	E

2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
- 4" HMA PAVEMENT
- 5" HMA PAVEMENT
- 6.5" HMA PAVEMENT
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- PAVEMENT WIDENING
- SLOPE INTERCEPT
- XXXXX SAWING ASPHALT
- SAWING CONCRETE

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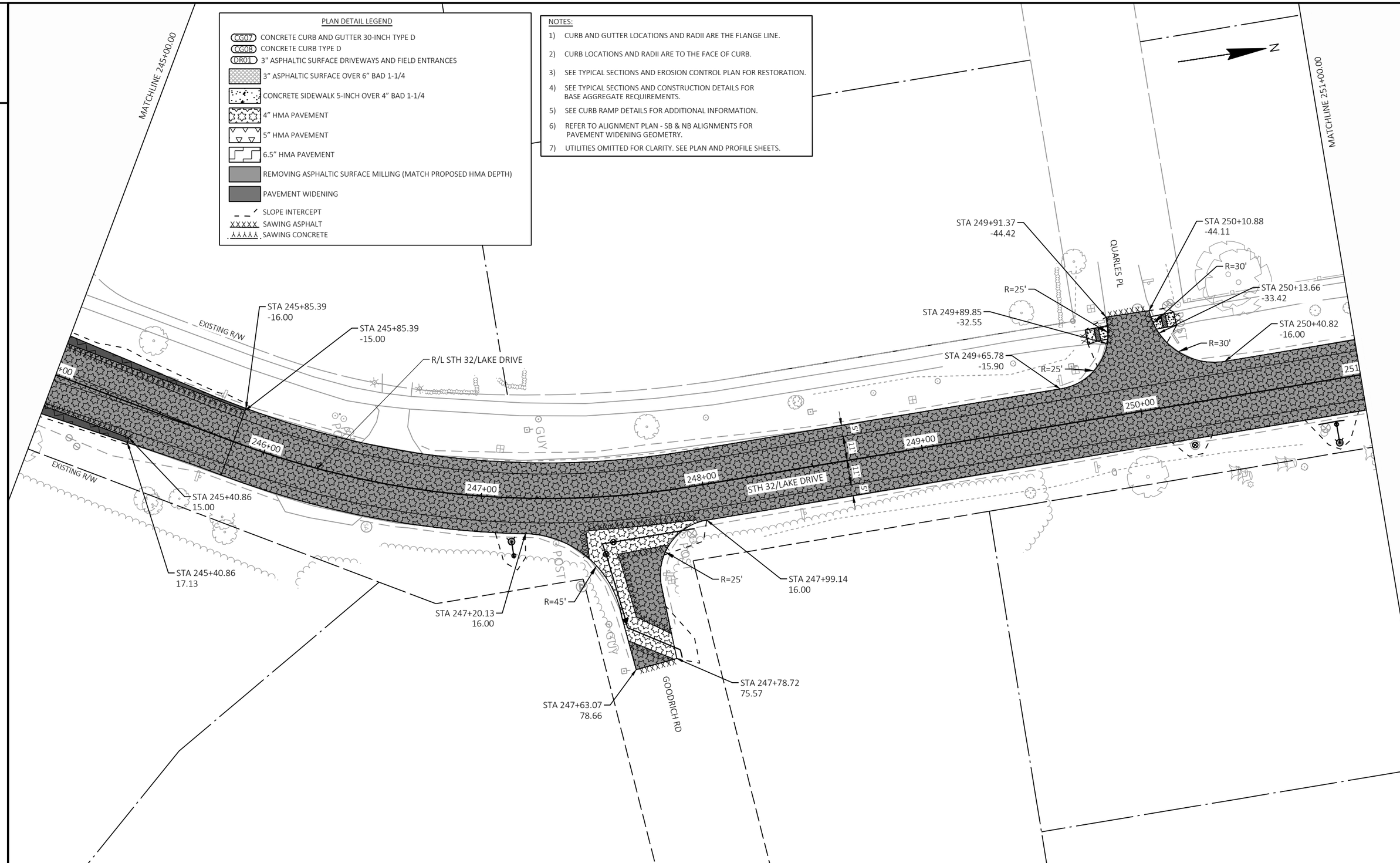
6) REFER TO ALIGNMENT PLAN - SB & NB ALIGNMENTS FOR PAVEMENT WIDENING GEOMETRY.
7) UTILITIES OMITTED FOR CLARITY. SEE PLAN AND PROFILE SHEETS.



2

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 44	E

2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
- 4" HMA PAVEMENT
- 5" HMA PAVEMENT
- 6.5" HMA PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING (MATCH PROPOSED HMA DEPTH)
- PAVEMENT WIDENING
- SLOPE INTERCEPT
- XXXXX SAWING ASPHALT
- SAWING CONCRETE

NOTES:

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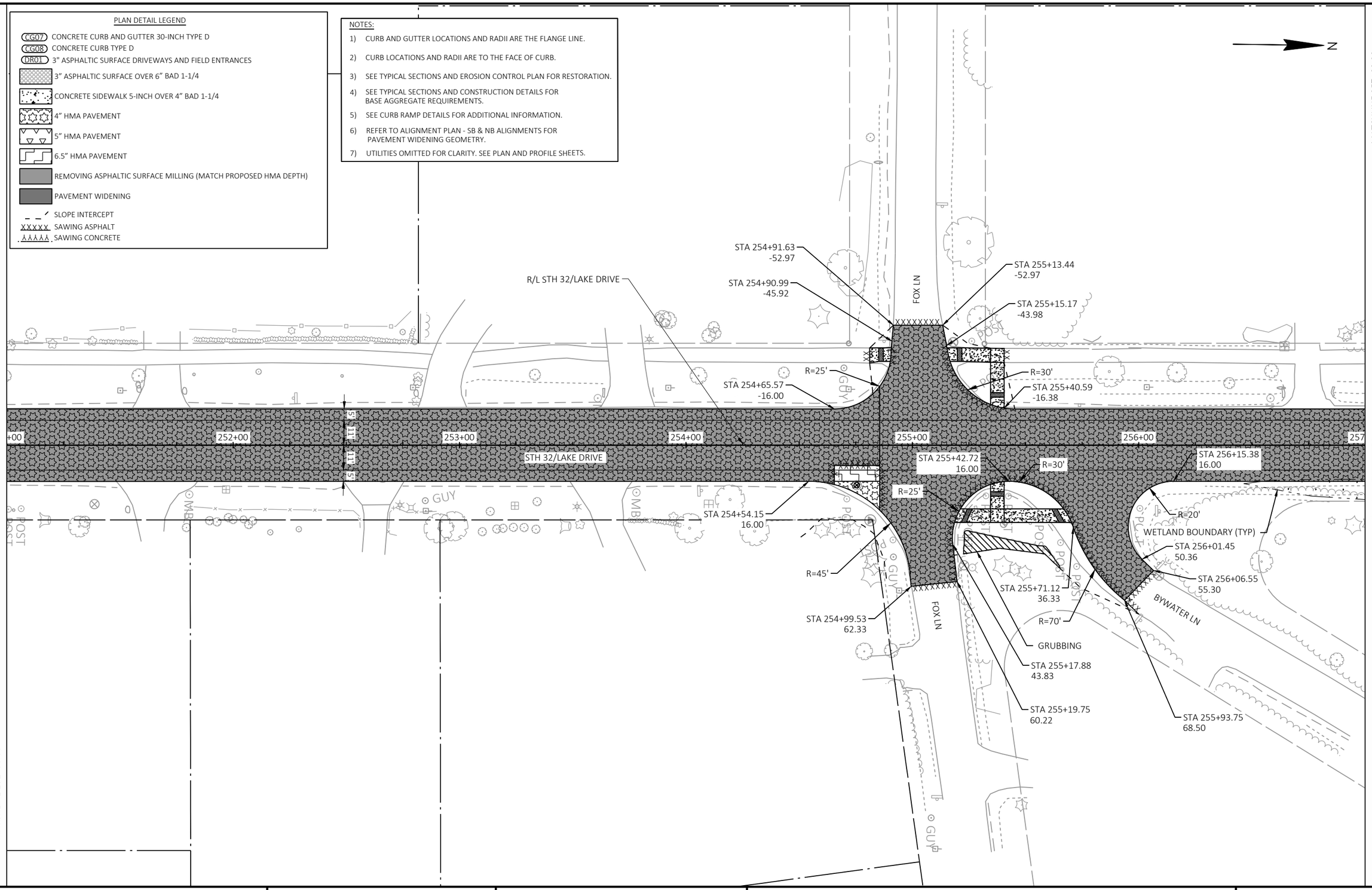
7) UTILITIES OMITTED FOR CLARITY. SEE PLAN AND PROFILE SHEETS.



2

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 45	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD(21)
PLOT DATE : 10/14/2024 6:20 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
- 4" HMA PAVEMENT
- 5" HMA PAVEMENT
- 6.5" HMA PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING (MATCH PROPOSED HMA DEPTH)
- PAVEMENT WIDENING
- SLOPE INTERCEPT
- SAWING ASPHALT
- SAWING CONCRETE

NOTES:

1) CURB AND GUTTER LOCATIONS AND RADII ARE THE FLANGE LINE.
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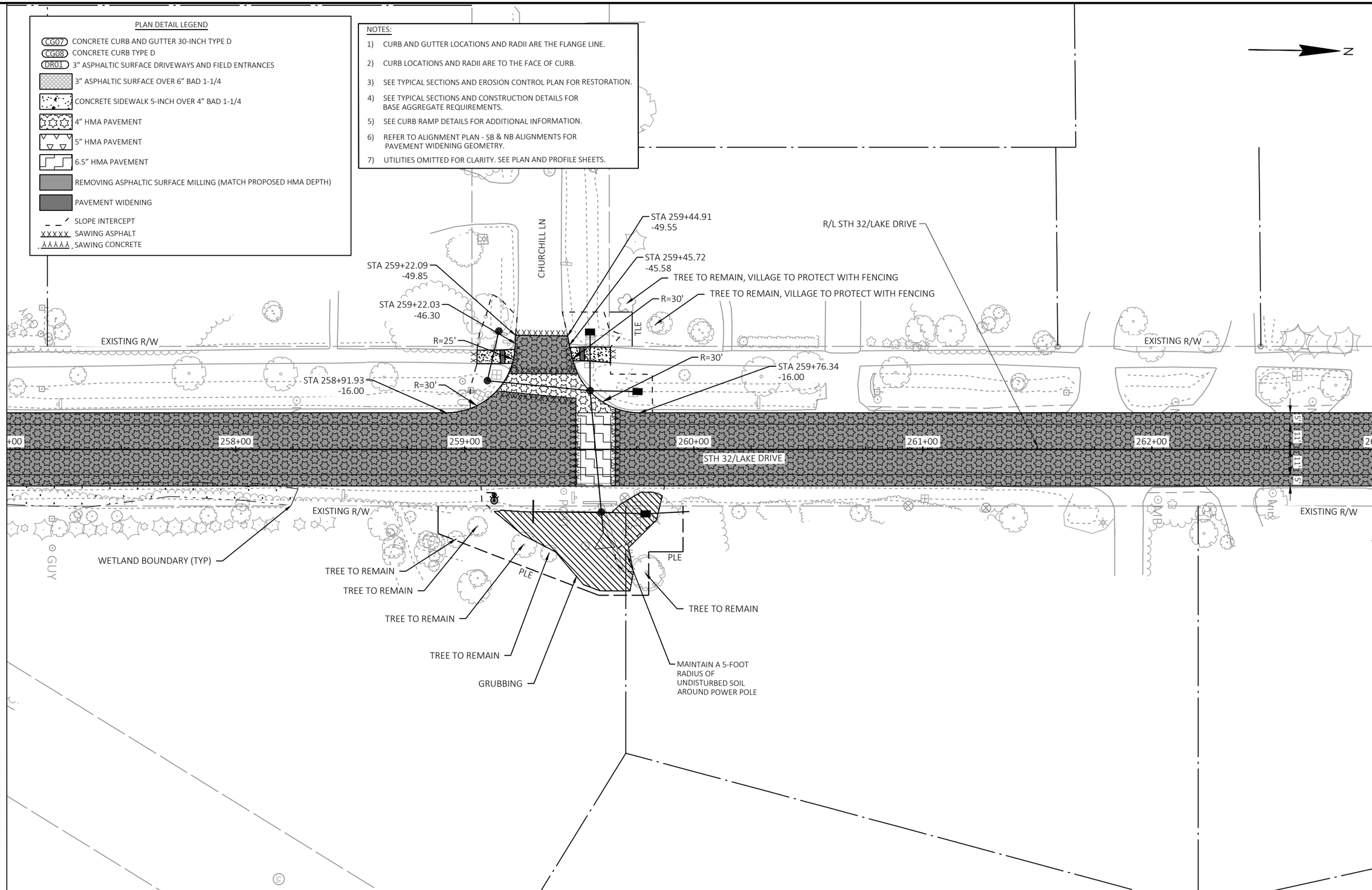
5) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.
6) REFER TO ALIGNMENT PLAN - SB & NB ALIGNMENTS FOR PAVEMENT WIDENING GEOMETRY.
7) UTILITIES OMITTED FOR CLARITY. SEE PLAN AND PROFILE SHEETS.



2

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 46	E

2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
- 4" HMA PAVEMENT
- 5" HMA PAVEMENT
- 6.5" HMA PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING (MATCH PROPOSED HMA DEPTH)
- PAVEMENT WIDENING
- SLOPE INTERCEPT
- SAWING ASPHALT
- SAWING CONCRETE

NOTES:

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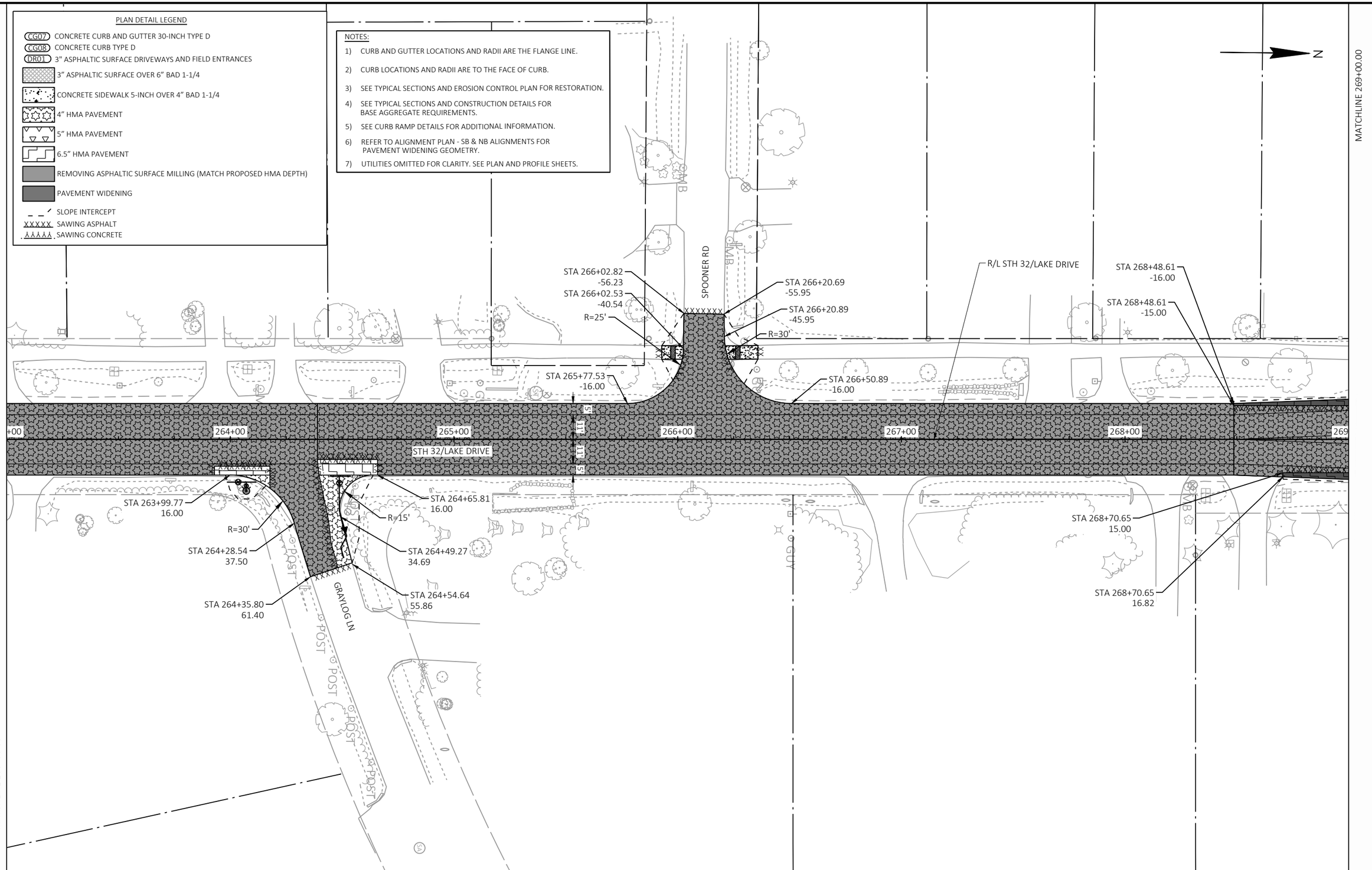
7) UTILITIES OMITTED FOR CLARITY. SEE PLAN AND PROFILE SHEETS.



2

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 47	E

2

PLAN DETAIL LEGEND

- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG08 CONCRETE CURB TYPE D
- DR01 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- 3" ASPHALTIC SURFACE OVER 6" BAD 1-1/4
- CONCRETE SIDEWALK 5-INCH OVER 4" BAD 1-1/4
- 4" HMA PAVEMENT
- 5" HMA PAVEMENT
- 6.5" HMA PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING (MATCH PROPOSED HMA DEPTH)
- PAVEMENT WIDENING
- SLOPE INTERCEPT
- XXXXX SAWING ASPHALT
- ÀÀÀÀÀ SAWING CONCRETE

NOTES:

1) CURB AND GUTTER LOCATIONS AND RADII ARE THE FLANGE LINE.
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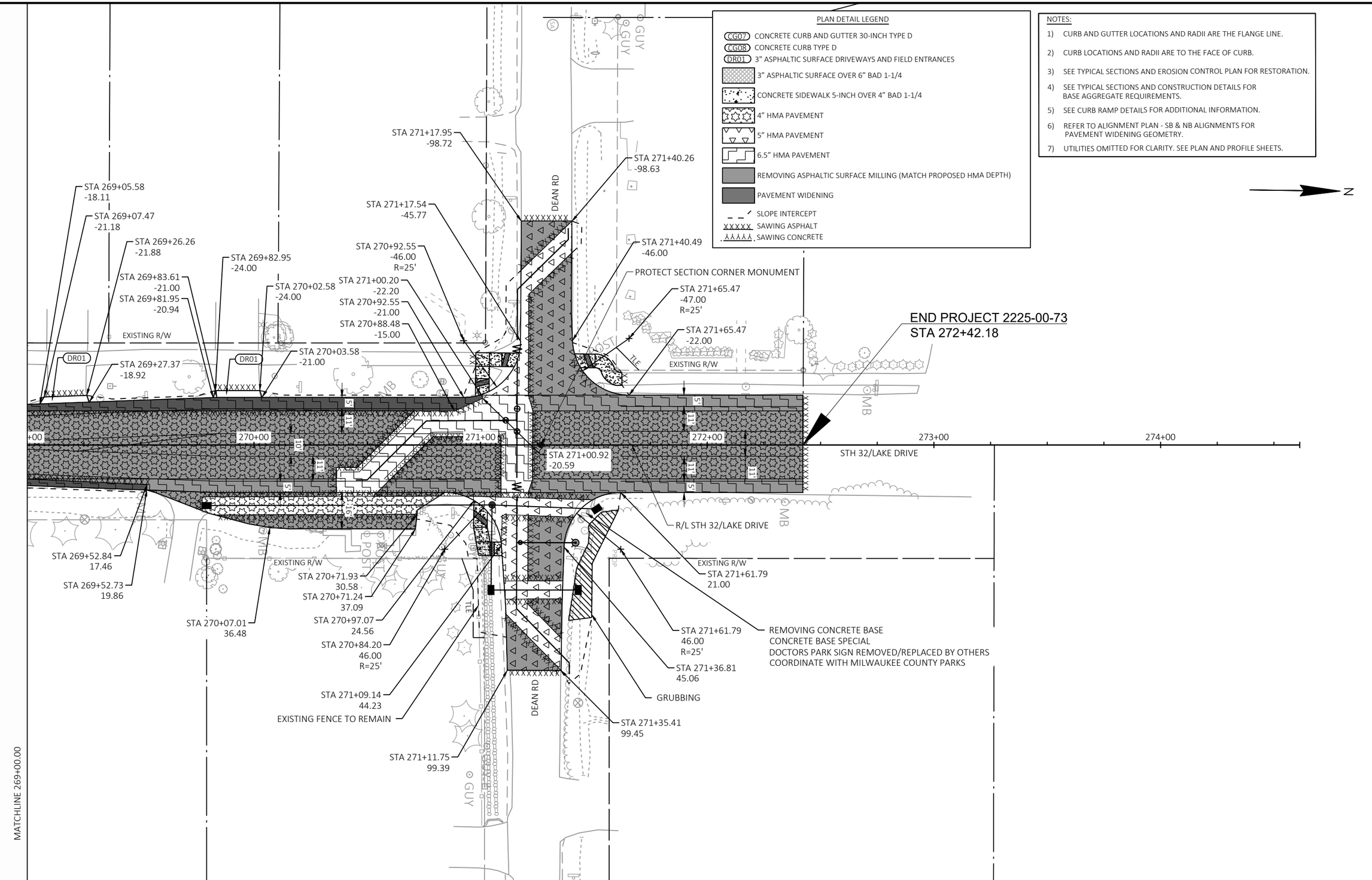
7) UTILITIES OMITTED FOR CLARITY. SEE PLAN AND PROFILE SHEETS.



2

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 48	E

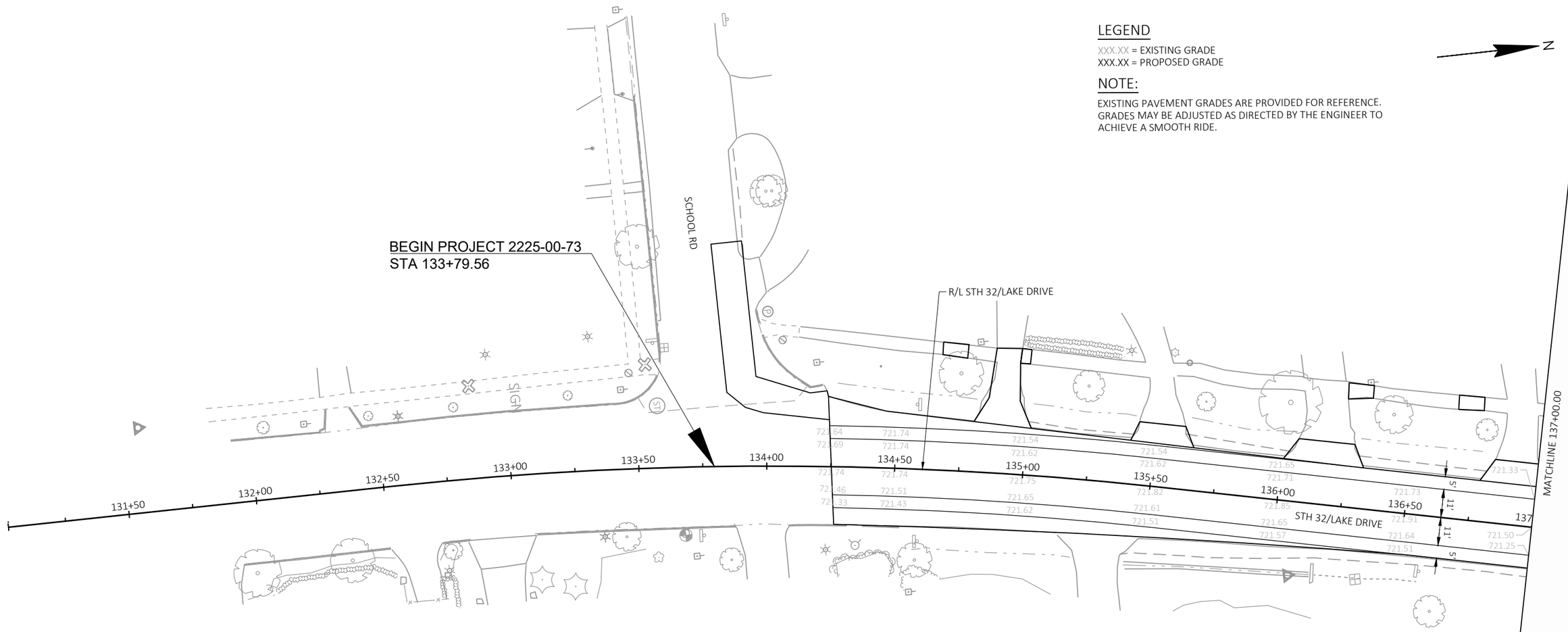
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - PD(24)
PLOT DATE : 11/20/2024 6:57 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 49	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021251-PG.DWG
LAYOUT NAME - PG-(1)
PLOT DATE : 10/14/2024 7:21 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

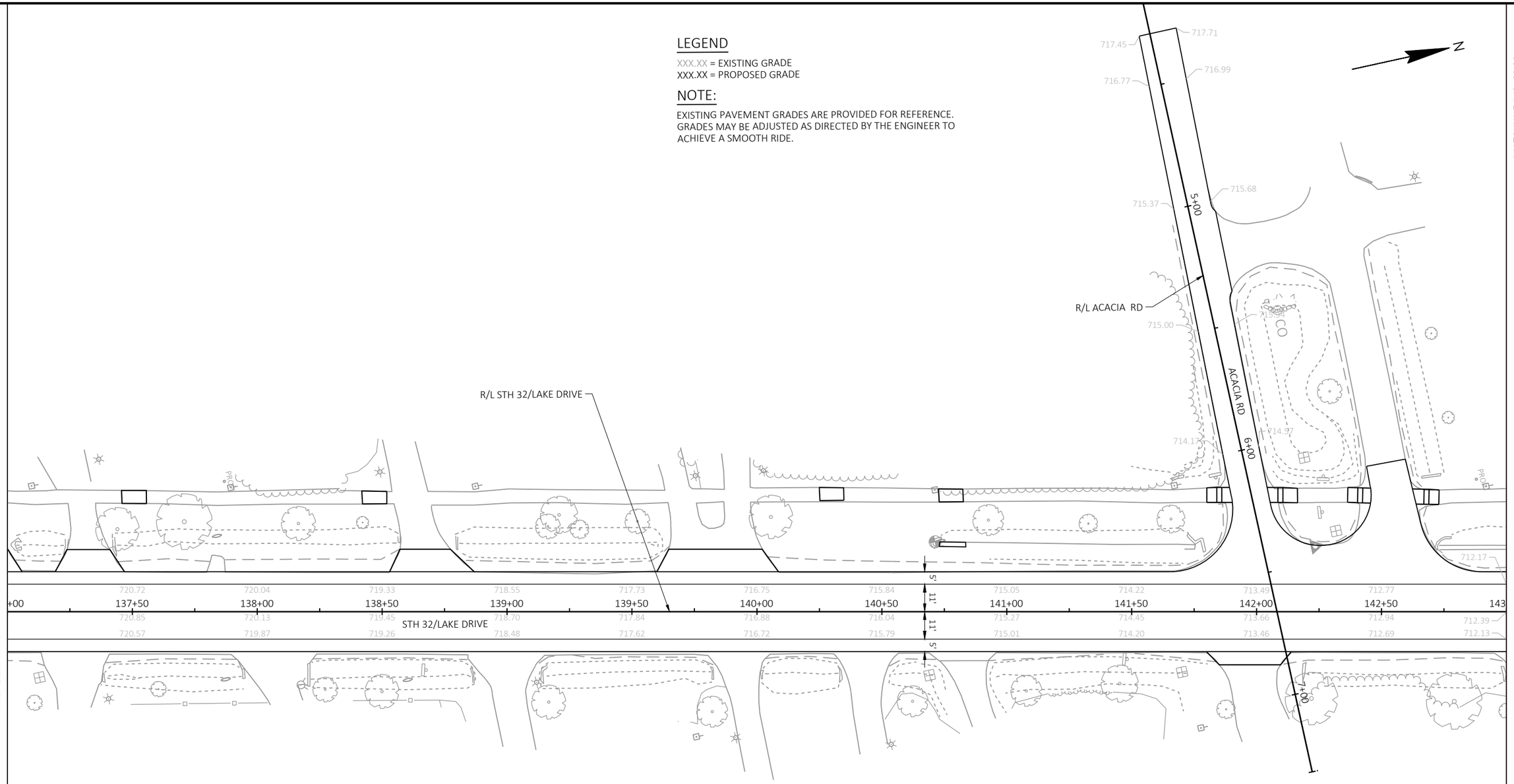
2

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 50	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021251-PG.DWG
LAYOUT NAME - PG-(2)
PLOT DATE : 10/14/2024 7:21 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

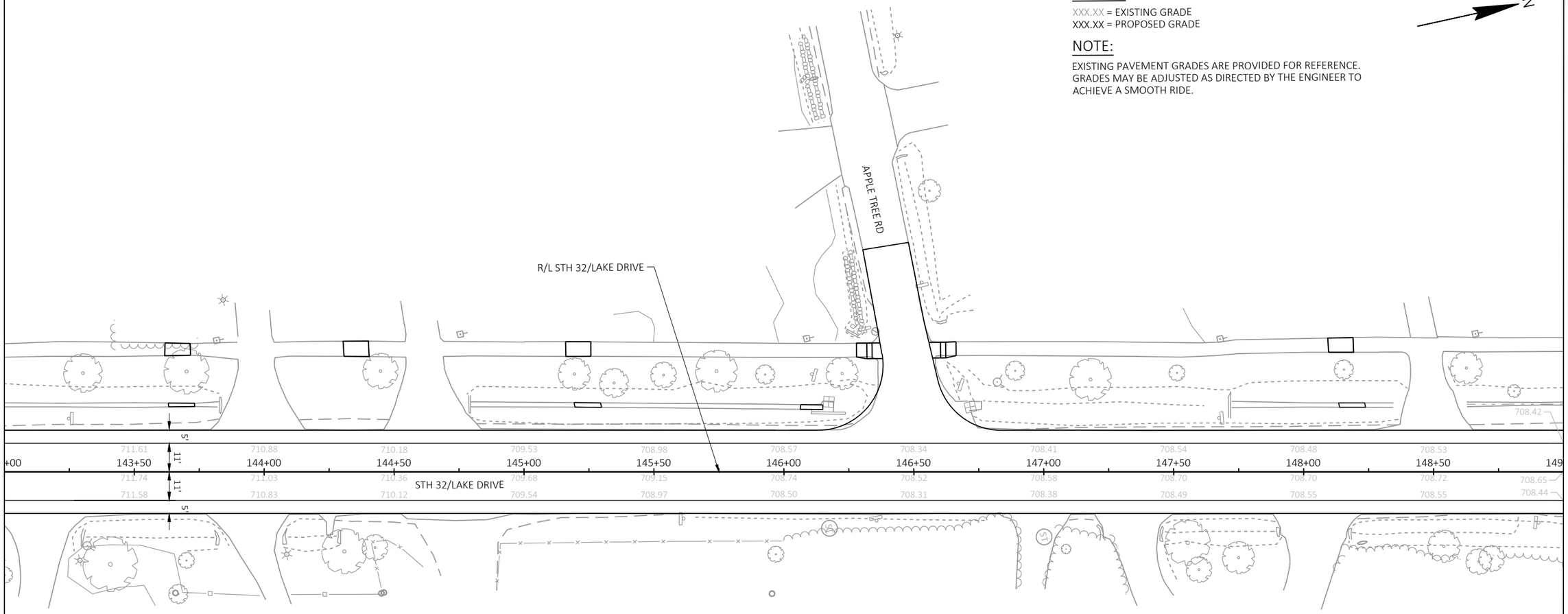
2

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



MATCHLINE 149+00.00

MATCHLINE 143+00.00

2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 51	E

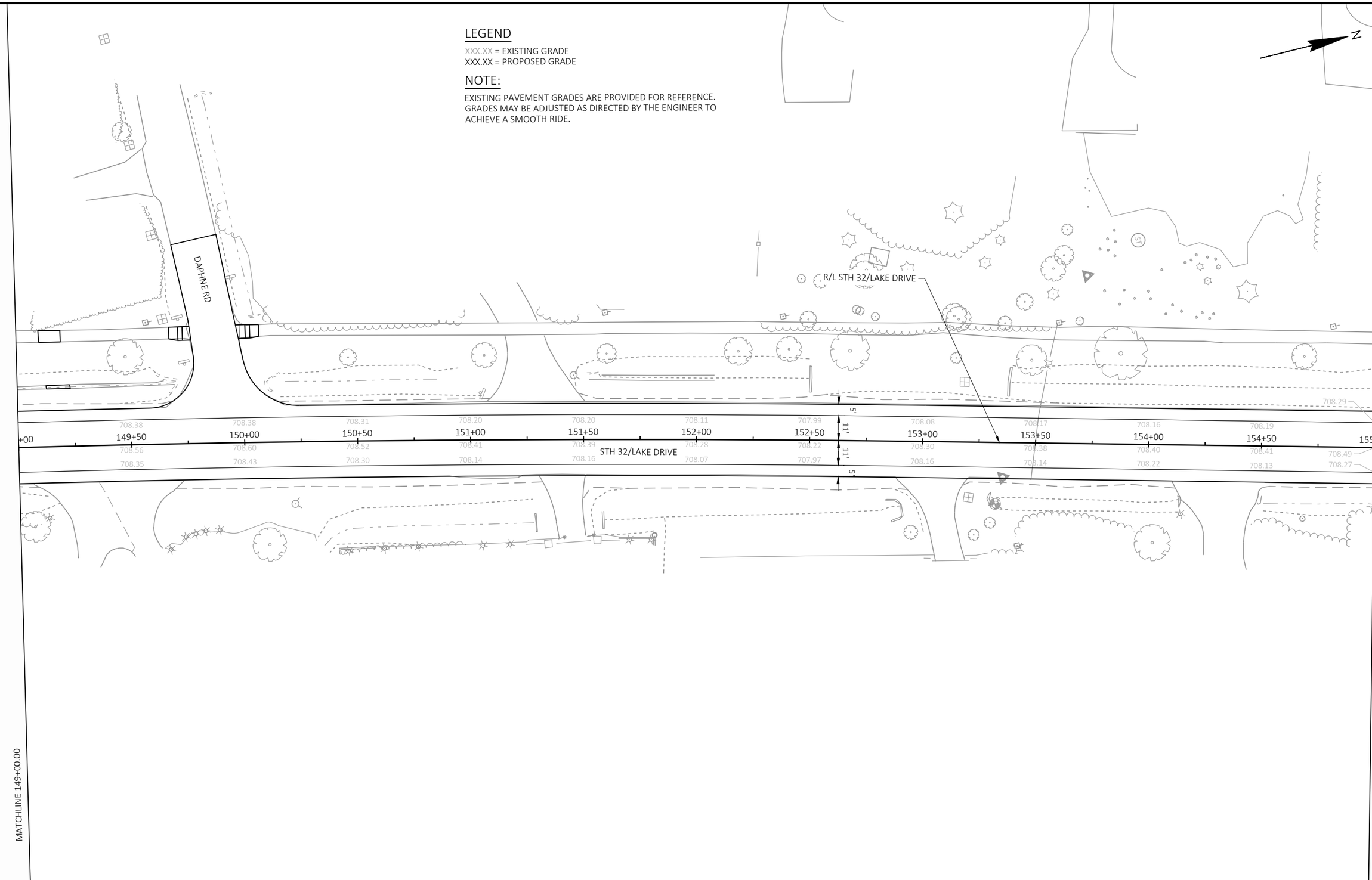
2

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

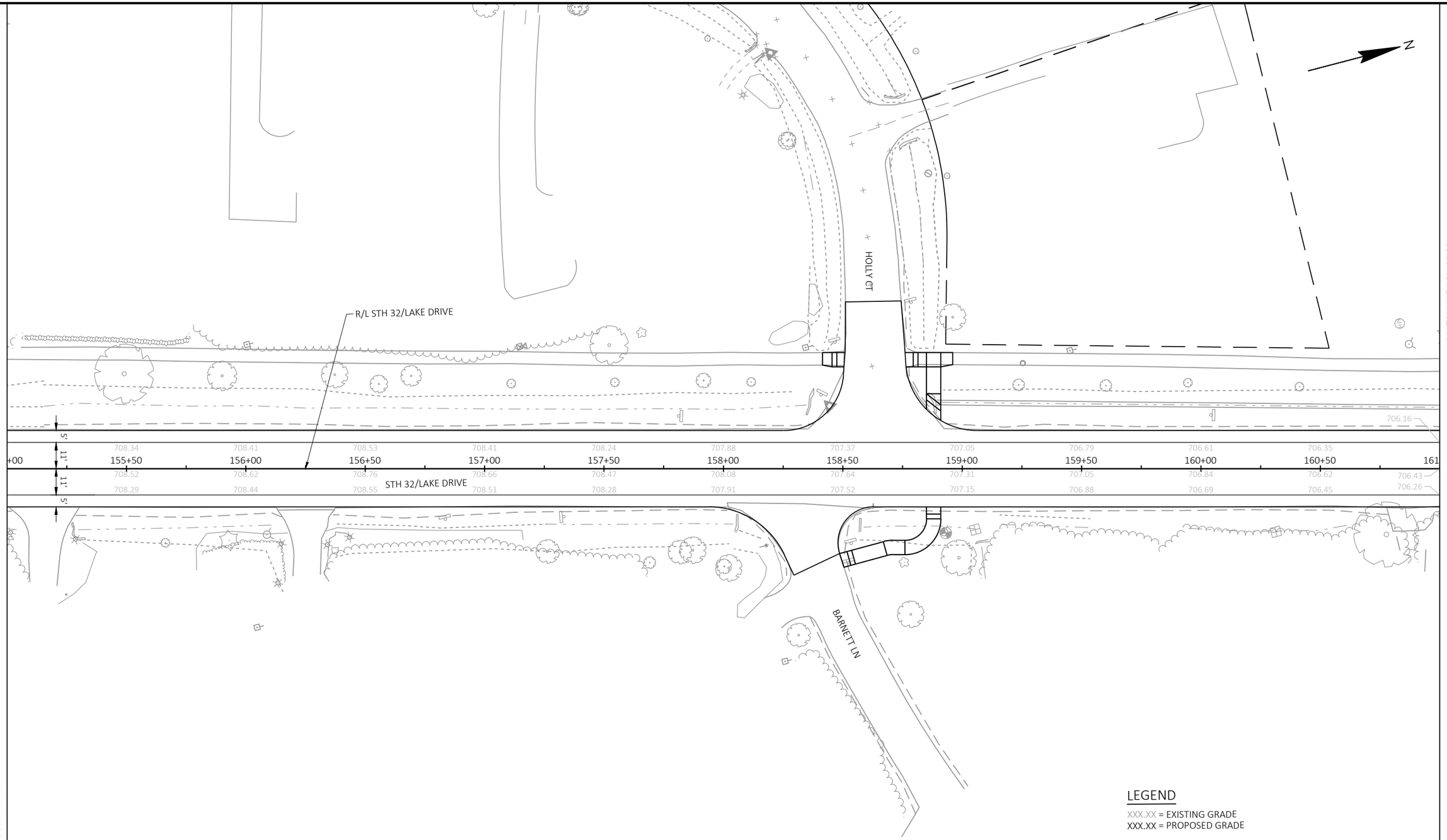
EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 52	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021251-PG.DWG
LAYOUT NAME - PG-(4)
PLOT DATE : 10/14/2024 7:21 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT



LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

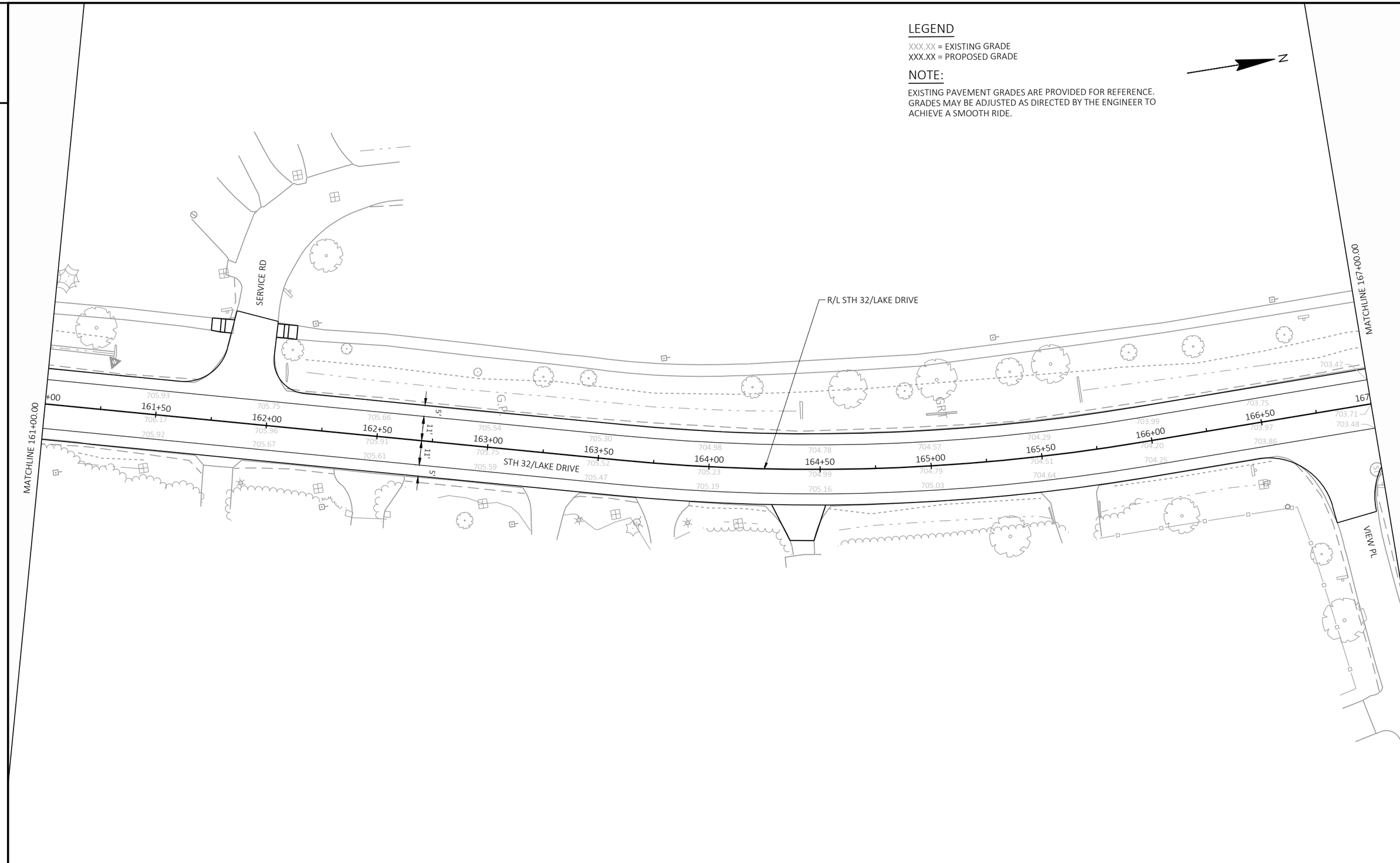
EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 54	E

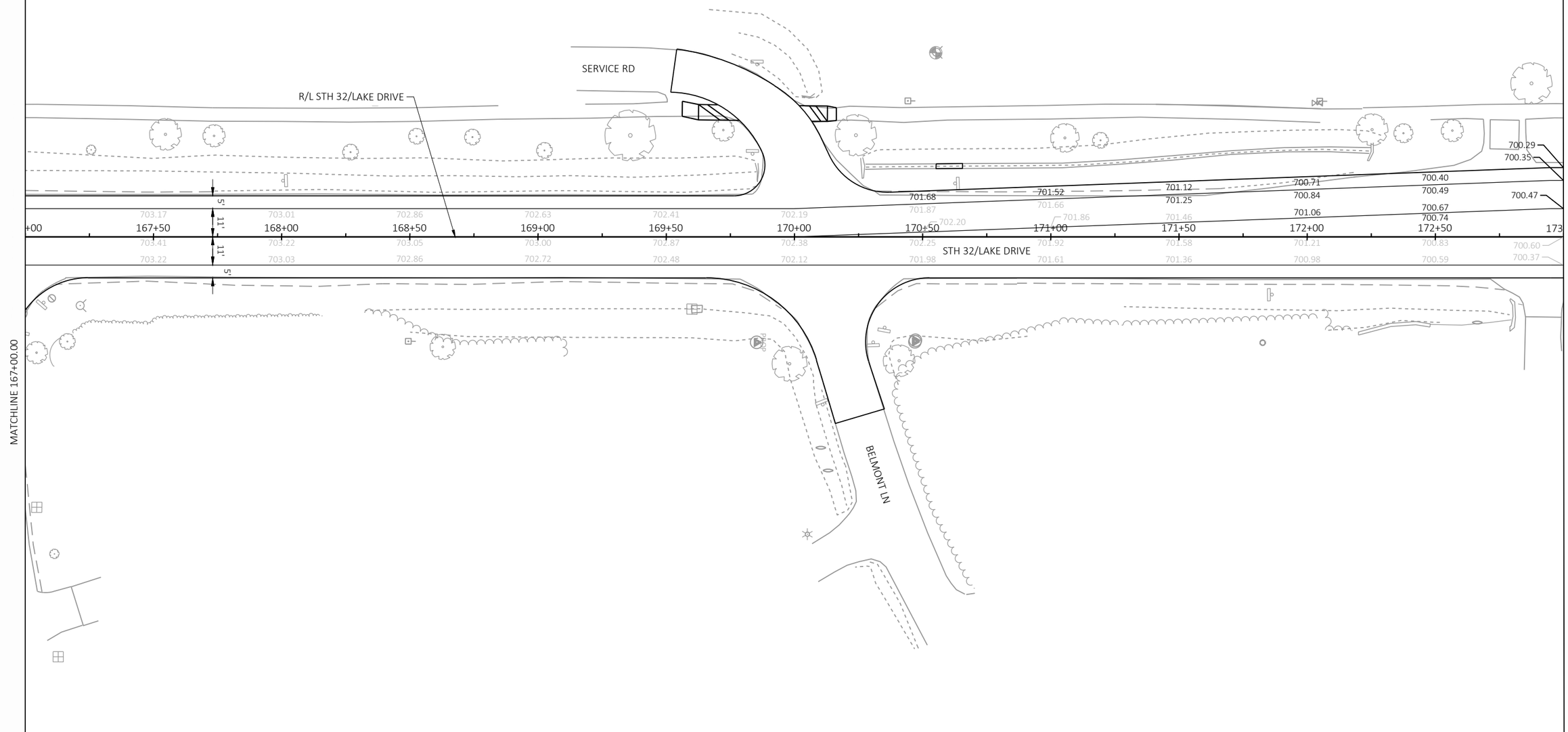
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021251-PG.DWG
LAYOUT NAME - PG-(6)
PLOT DATE : 10/14/2024 7:21 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 55	E

2

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

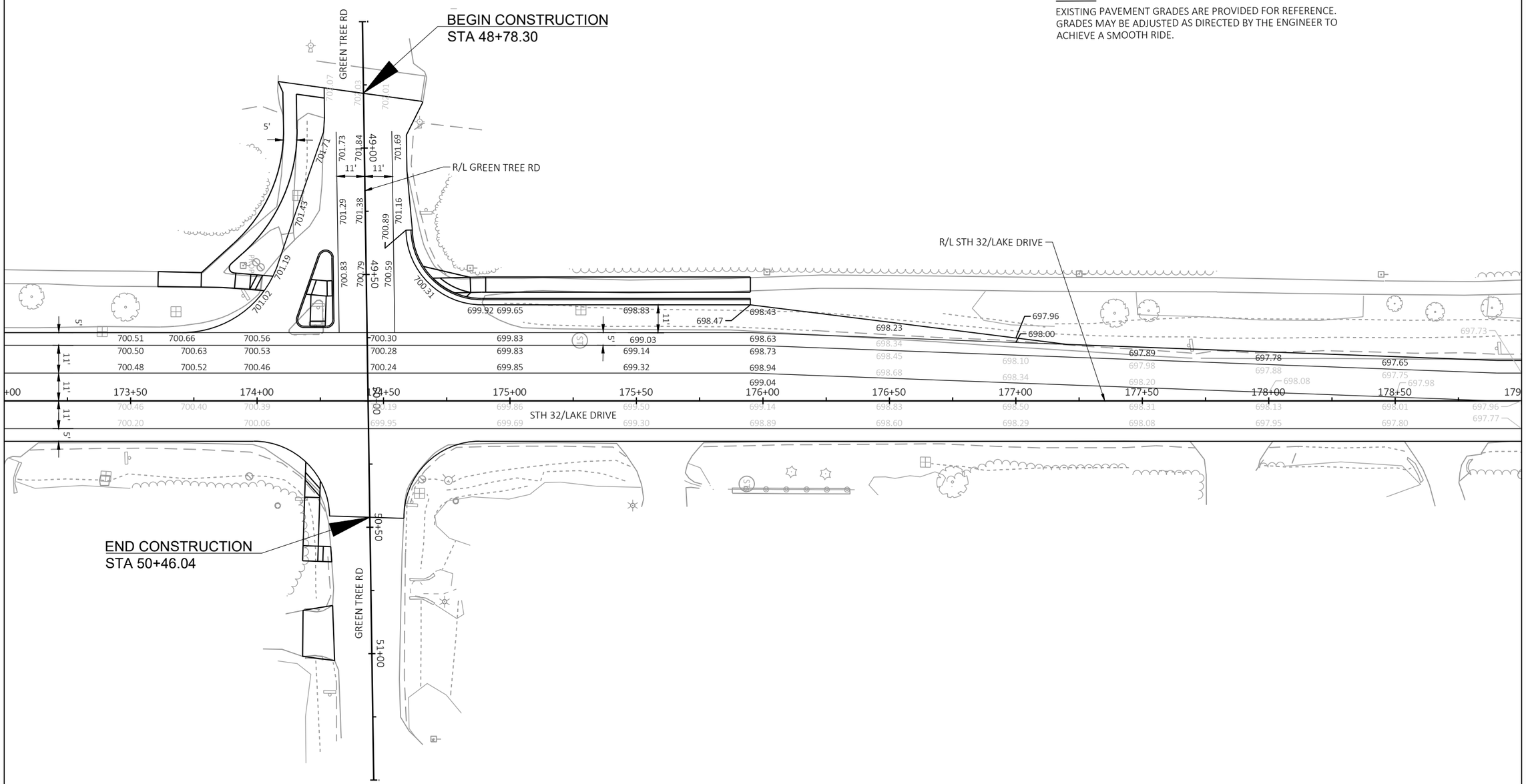
NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.

N

MATCHLINE 179+00.00

2



MATCHLINE 173+00.00

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 56	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021251-PG.DWG
LAYOUT NAME - PG-(8)
PLOT DATE : 10/14/2024 7:22 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

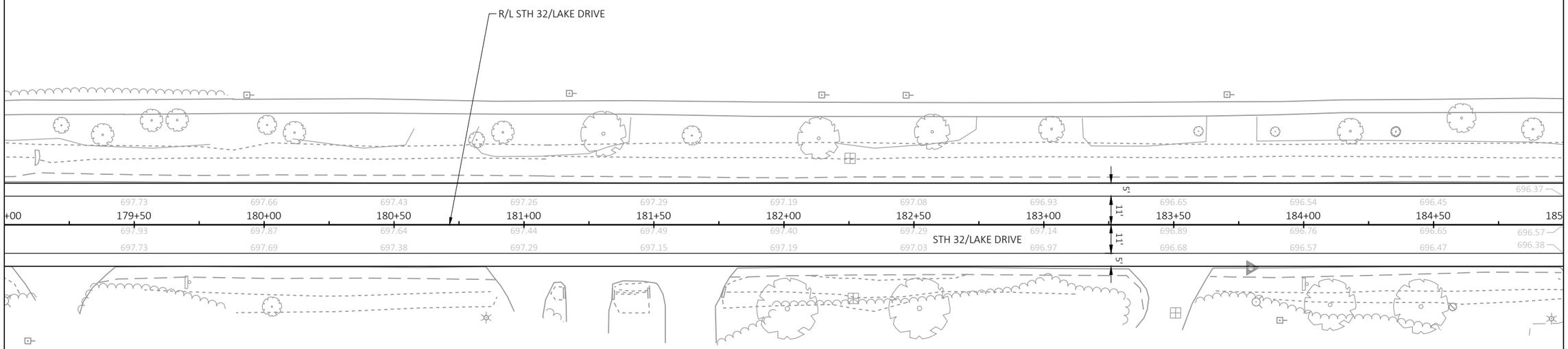
NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.

N

MATCHLINE 185+00.00

2



MATCHLINE 179+00.00

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 57	E

2

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

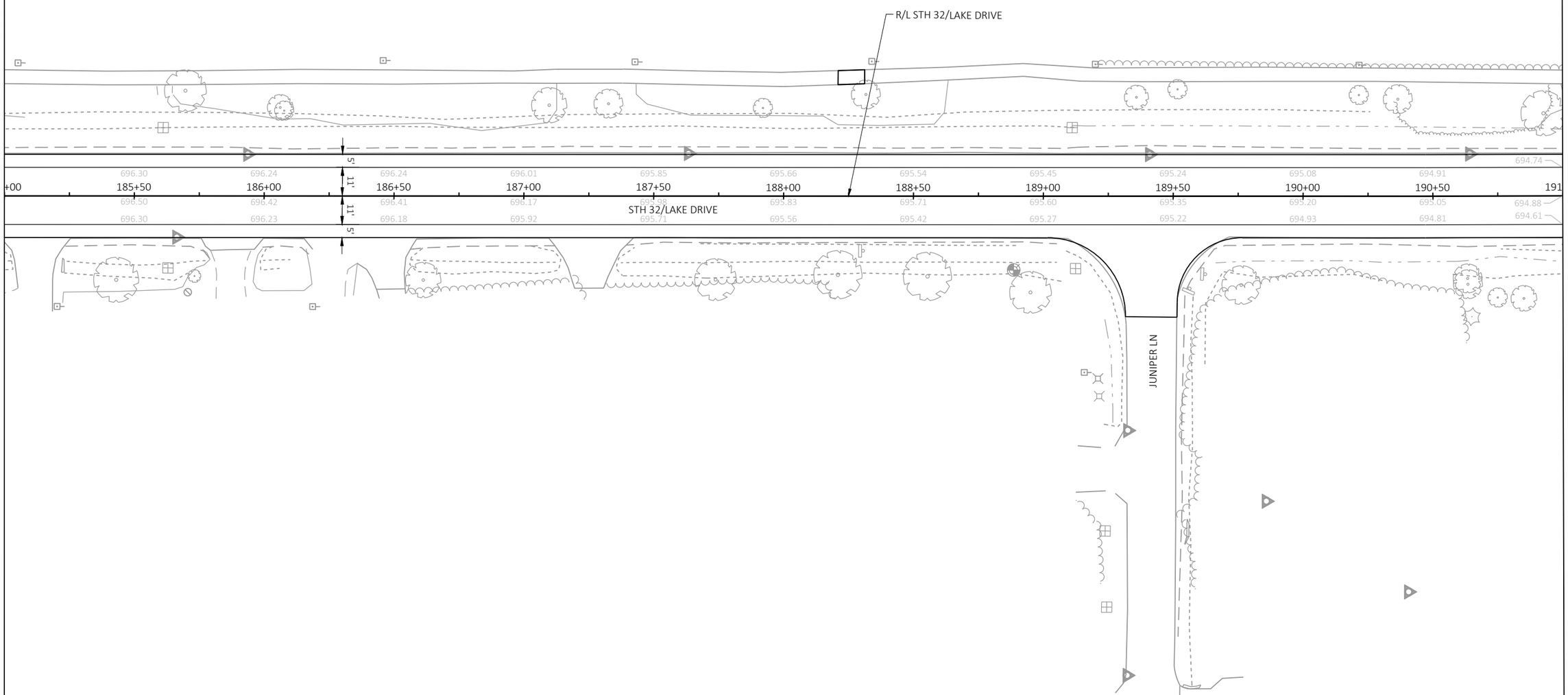
NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.

N

MATCHLINE 191+00.00

2



MATCHLINE 185+00.00

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 58	E

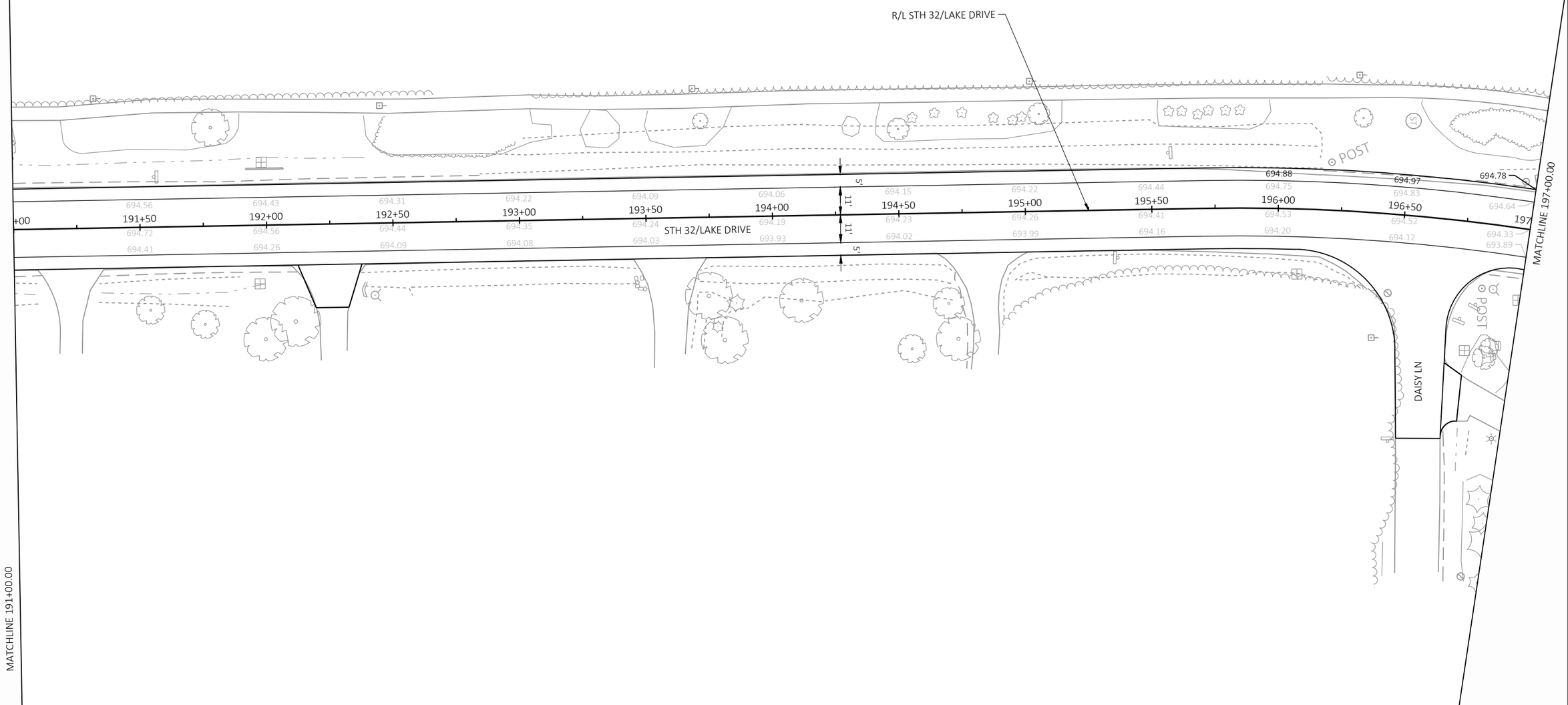
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021251-PG.DWG
LAYOUT NAME - PG-(10)
PLOT DATE : 10/14/2024 7:22 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 59	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021251-PG.DWG
LAYOUT NAME - PG-(11)
PLOT DATE : 10/14/2024 7:22 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

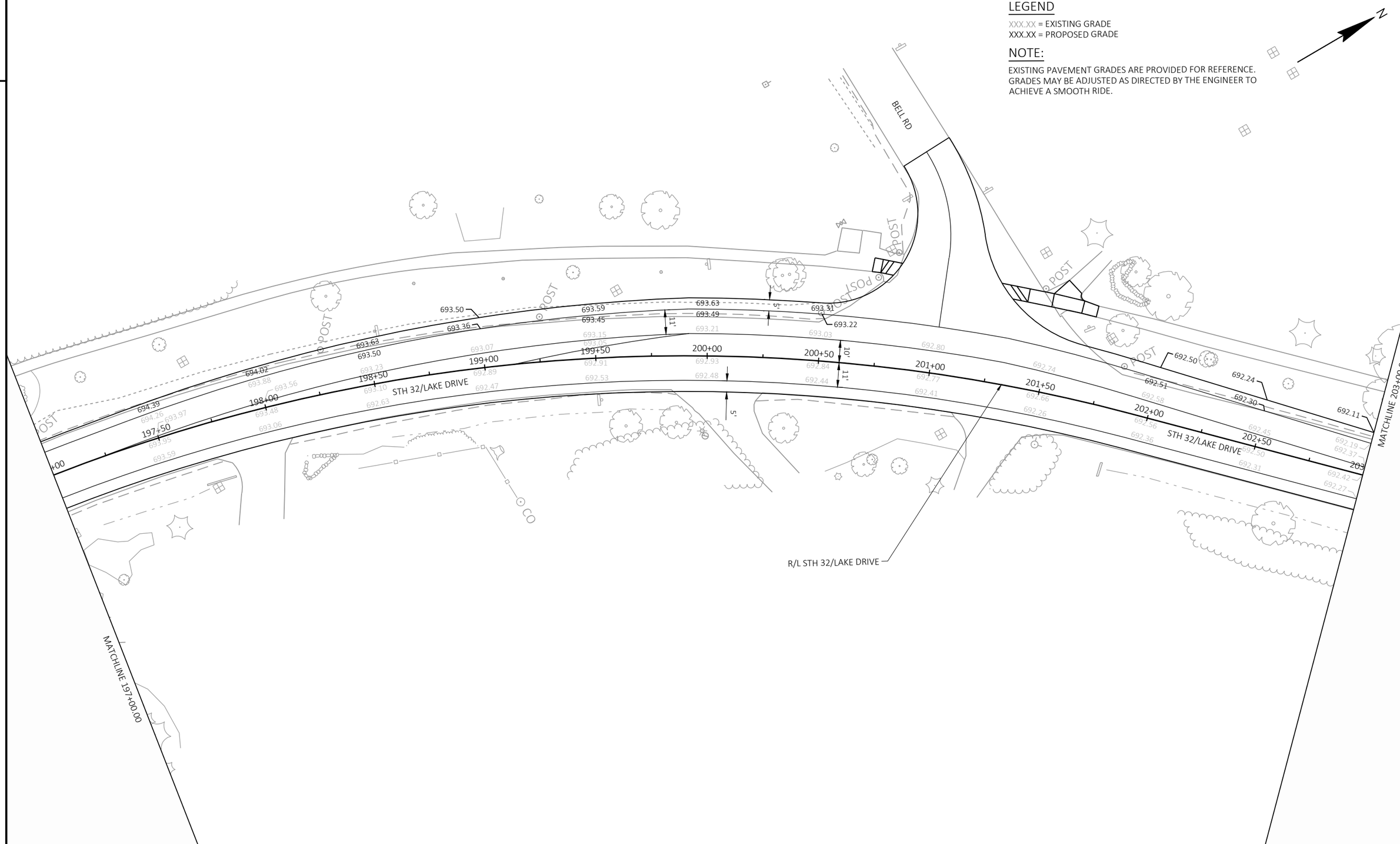
2

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 60	E

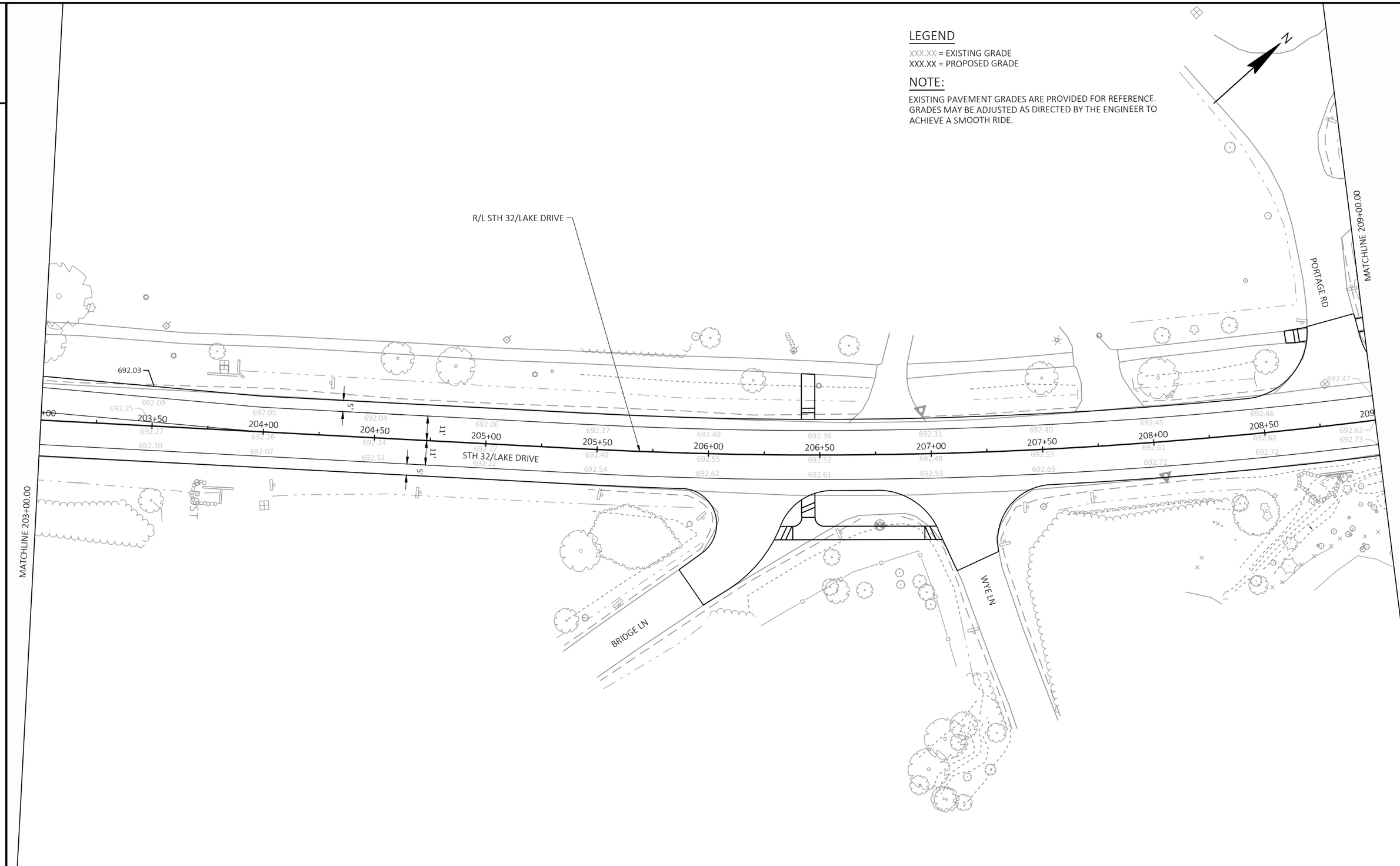
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021251-PG.DWG
LAYOUT NAME - PG-(12)
PLOT DATE : 10/14/2024 7:22 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 61	E

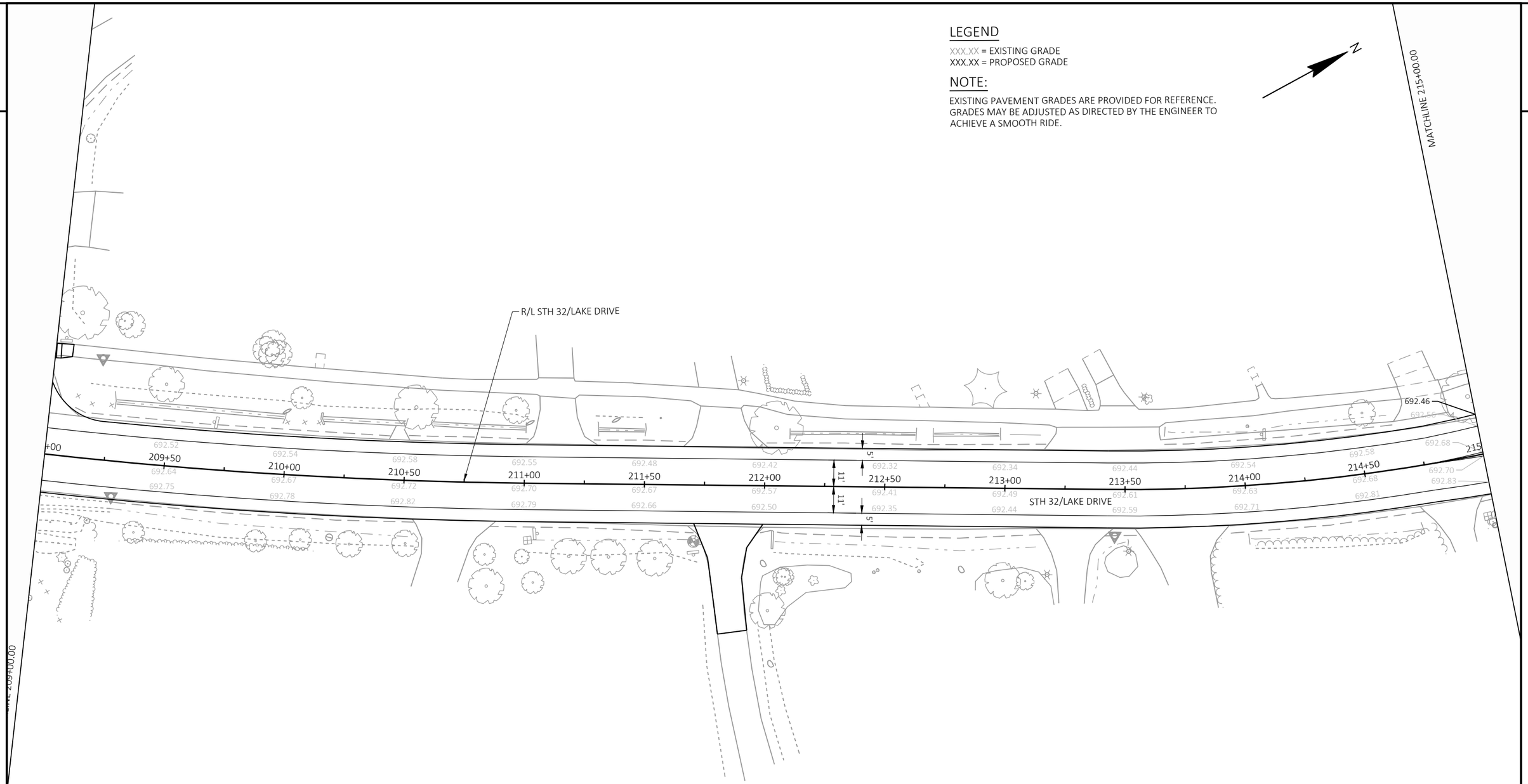
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021251-PG.DWG
LAYOUT NAME - PG-(13)
PLOT DATE : 10/14/2024 7:22 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 62	E

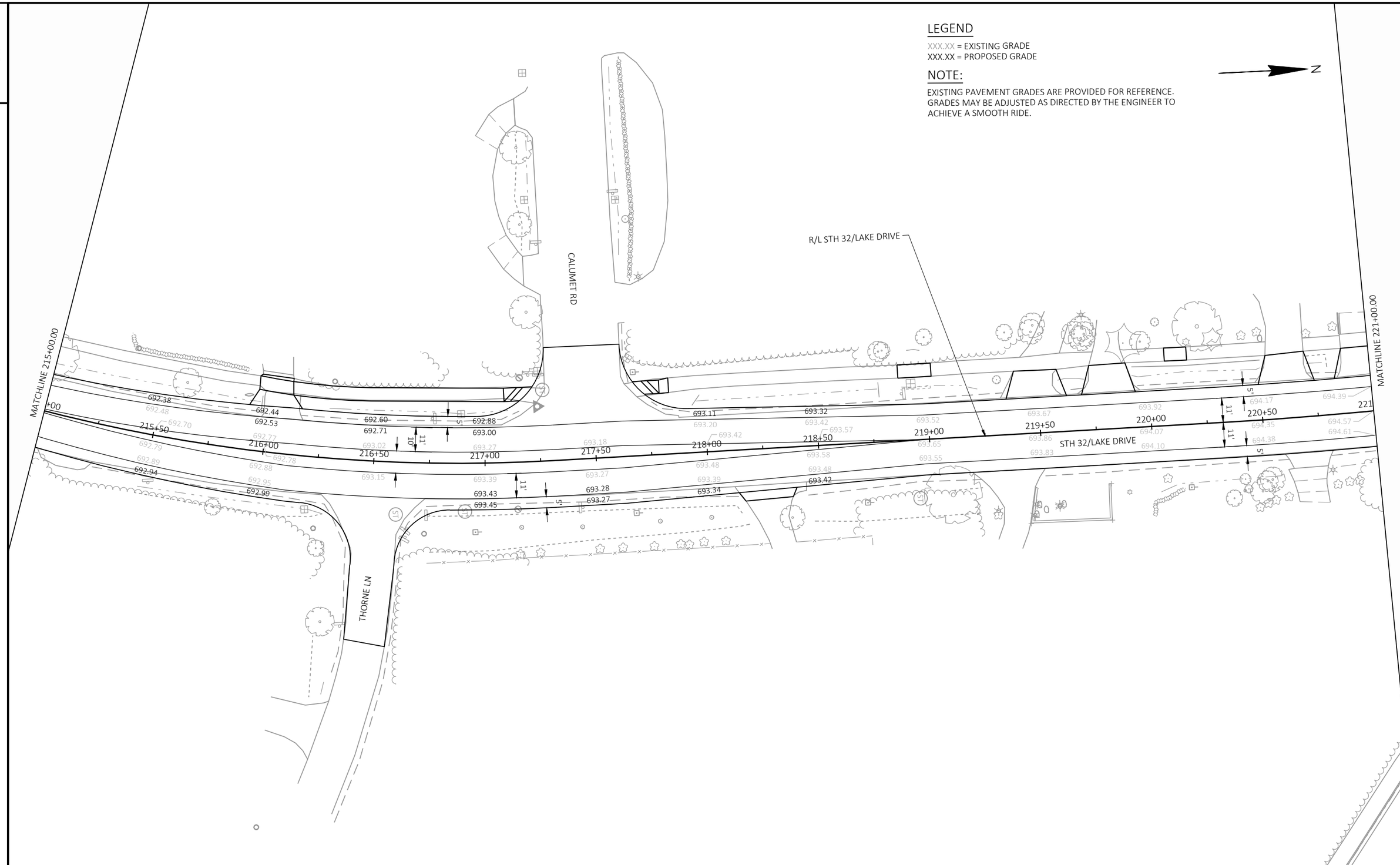
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021251-PG.DWG
LAYOUT NAME - PG-(14)
PLOT DATE : 10/15/2024 10:26 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.

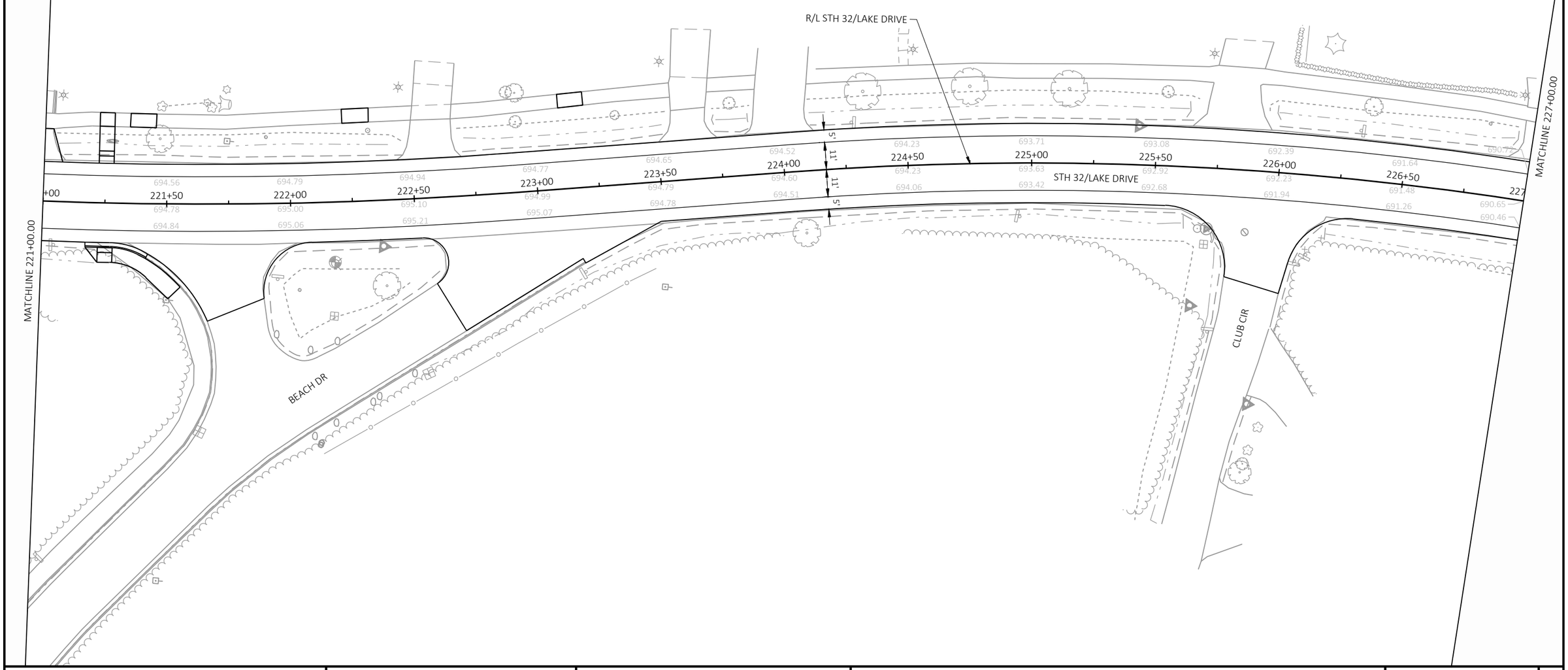


LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



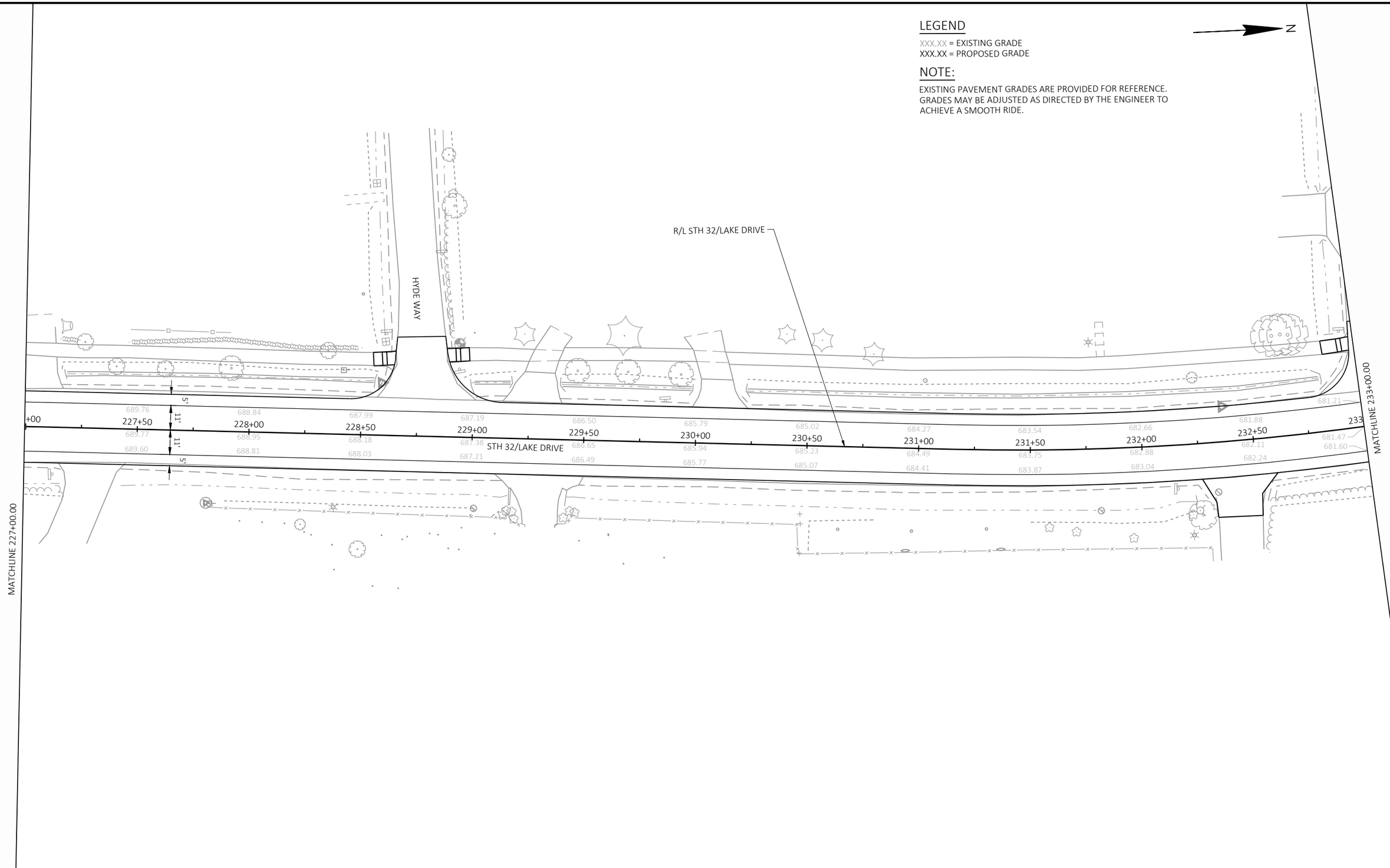
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 64	E

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 65	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021251-PG.DWG
LAYOUT NAME - PG-(17)
PLOT DATE : 10/14/2024 7:22 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

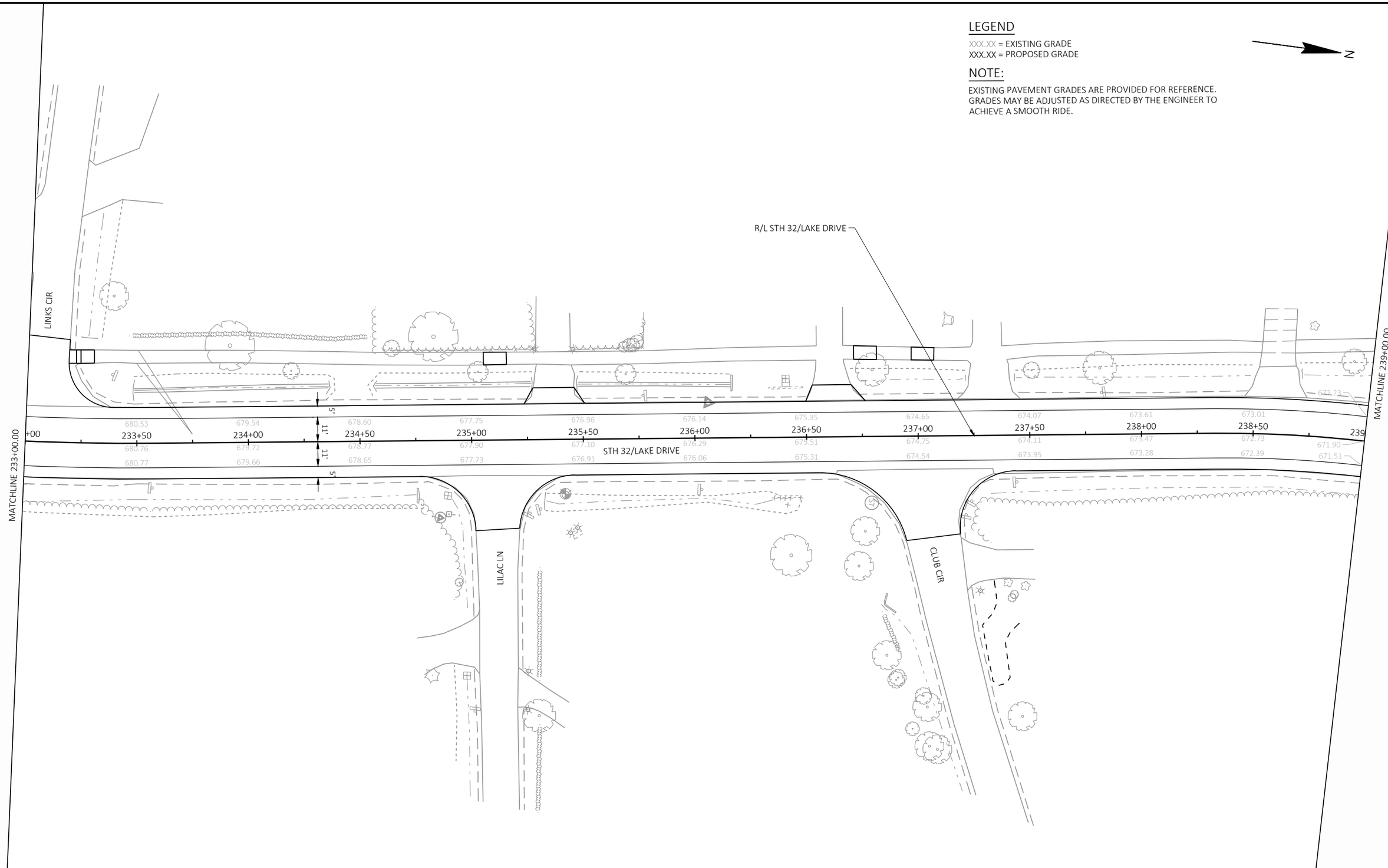
2

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 66	E

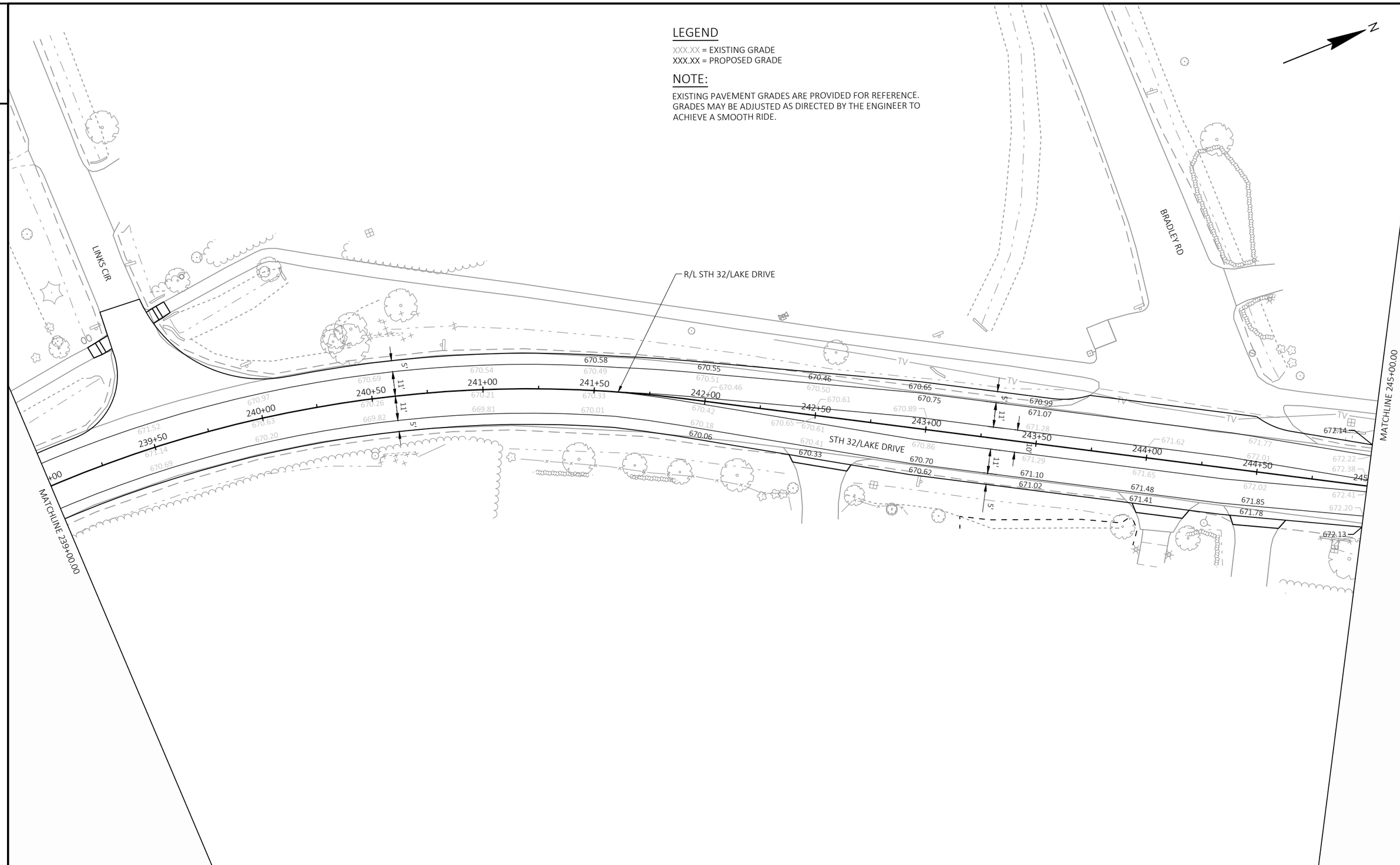
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021251-PG.DWG
LAYOUT NAME - PG-(18)
PLOT DATE : 10/14/2024 7:22 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



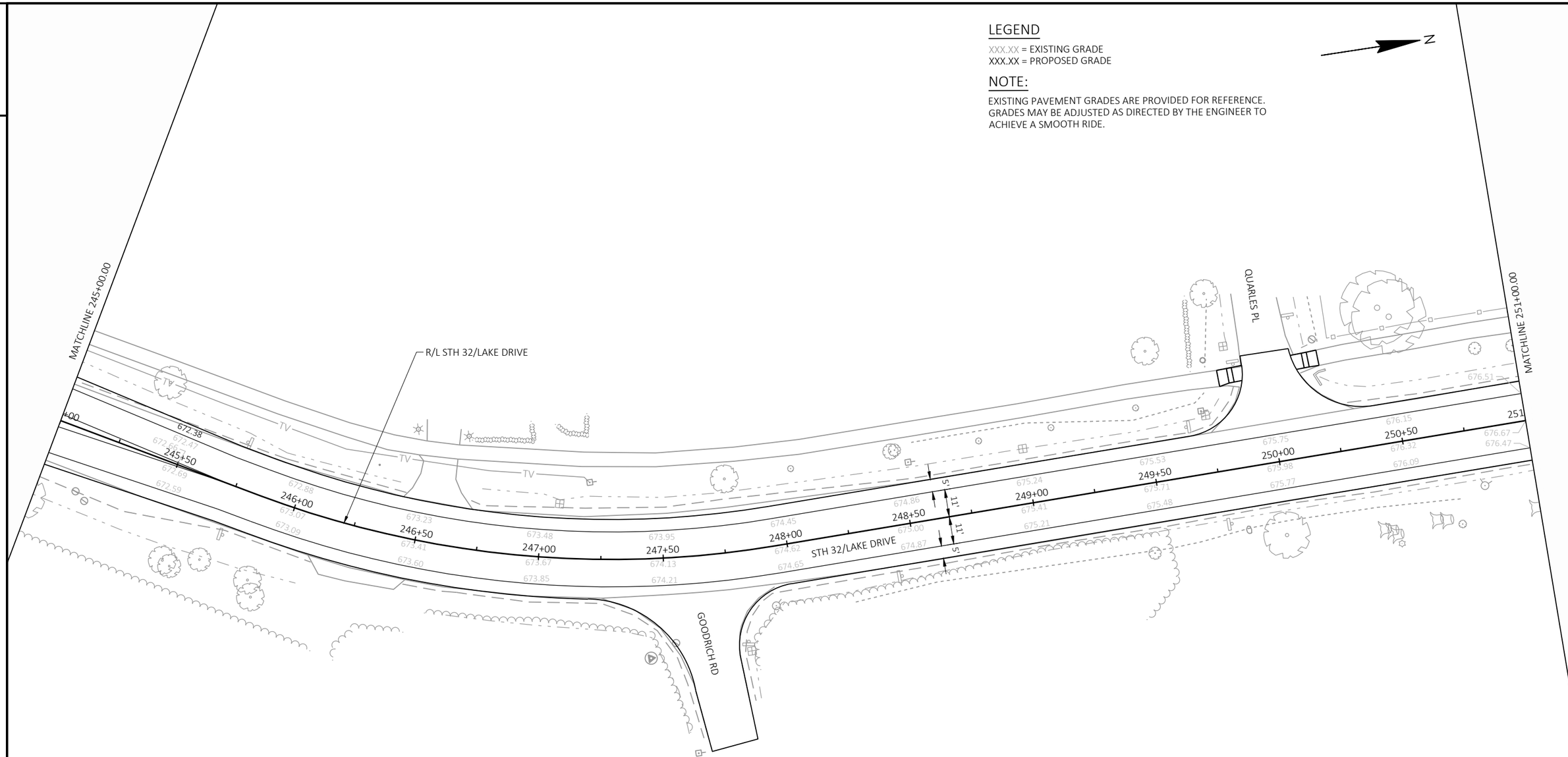
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 67	E

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

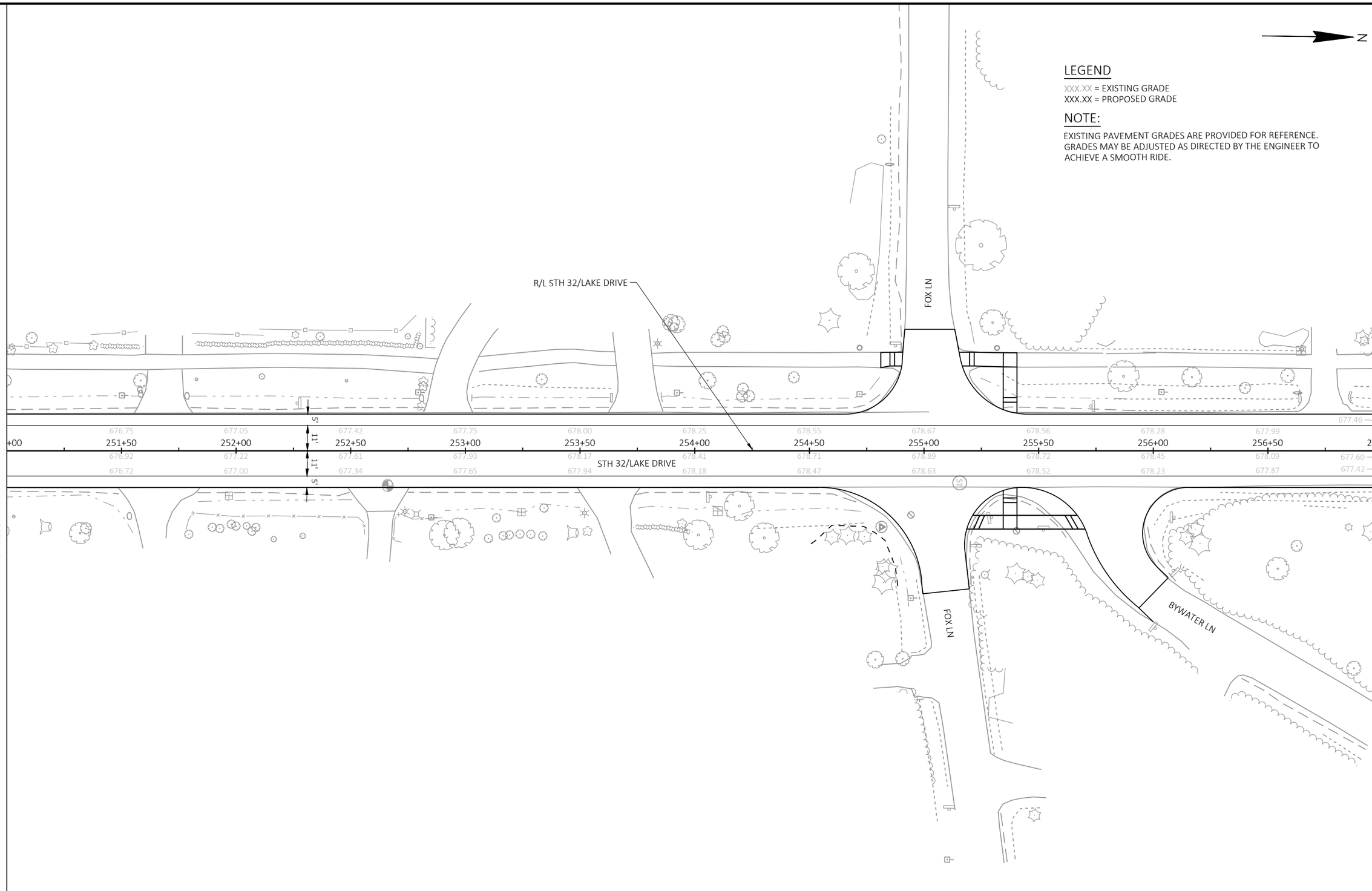
NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 68	E

2



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 69	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021251-PG.DWG
LAYOUT NAME - PG-(21)
PLOT DATE : 10/14/2024 7:23 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

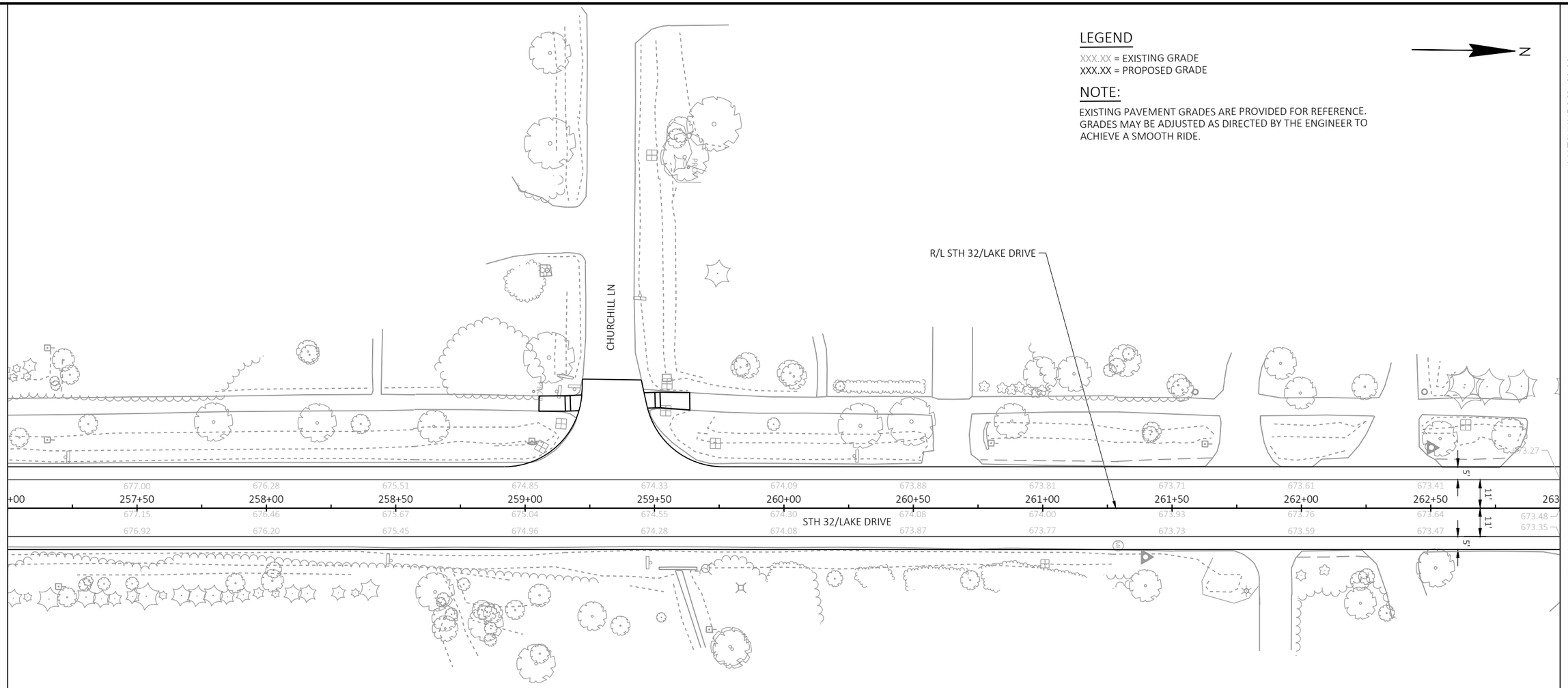
NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.

N

MATCHLINE 263+00.00

2



MATCHLINE 257+00.00

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 70	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021251-PG.DWG
LAYOUT NAME - PG-(22)
PLOT DATE : 10/14/2024 7:23 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

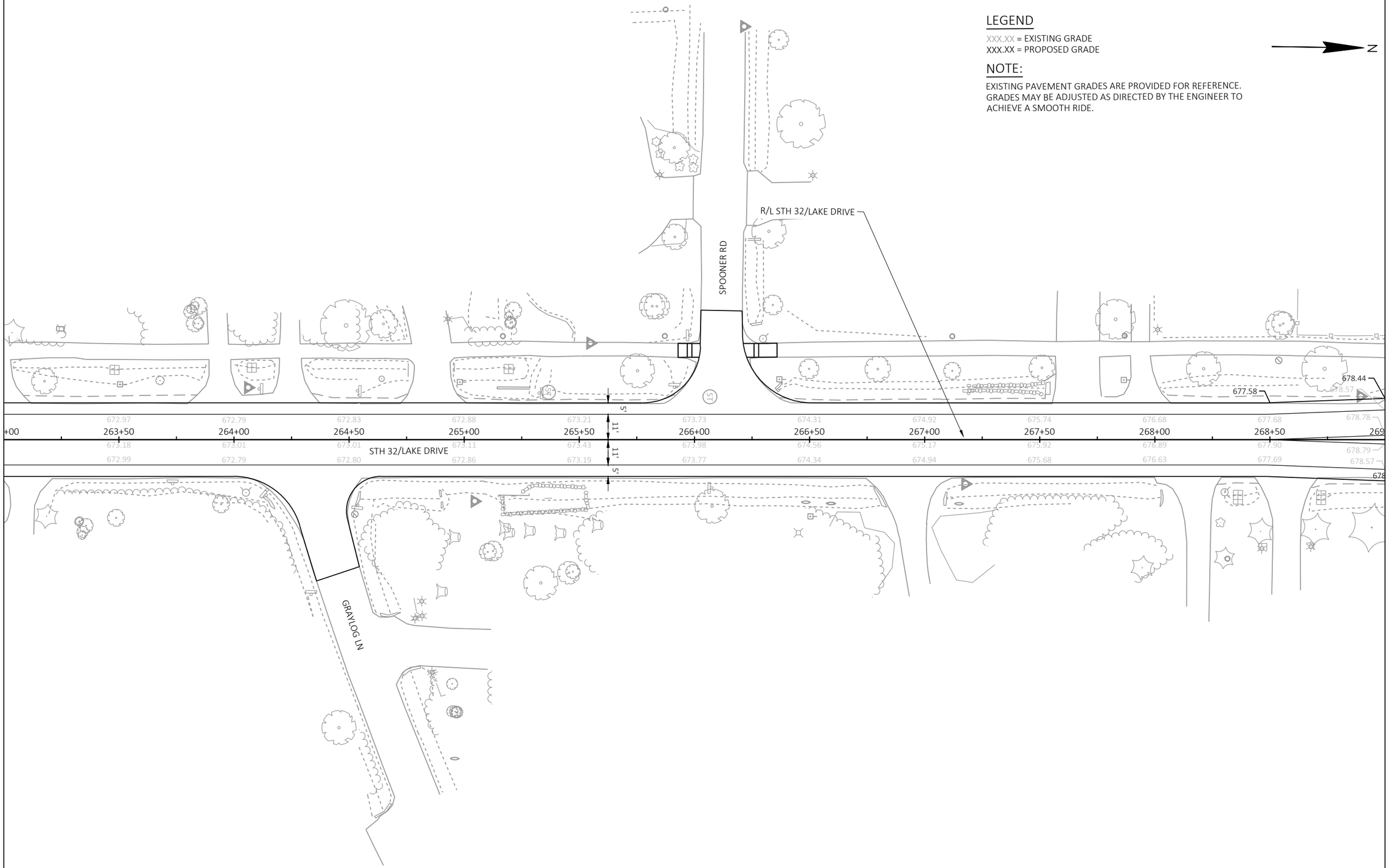
WISDOT/CADDS SHEET 42

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 71	E

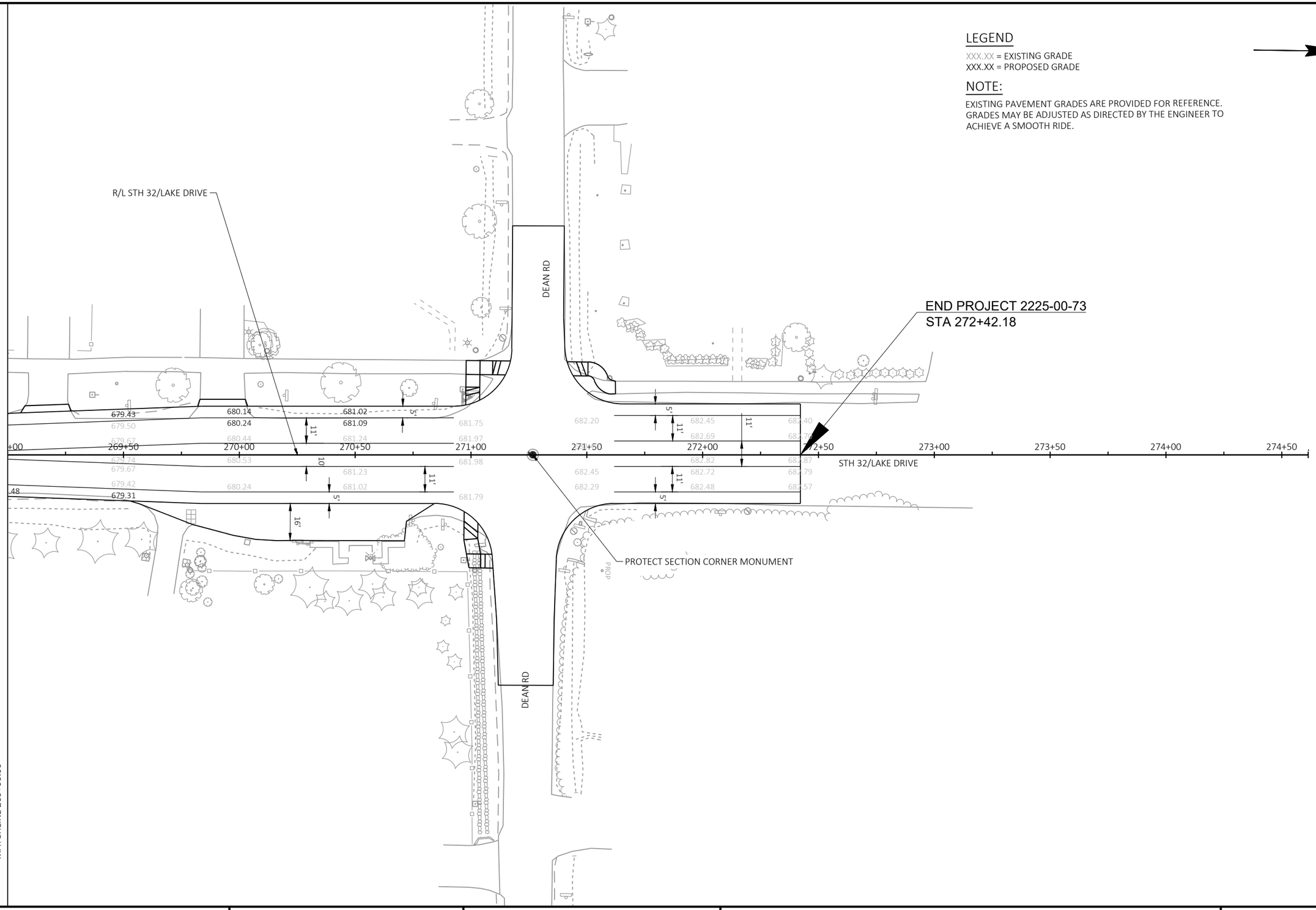
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021251-PG.DWG
LAYOUT NAME - PG-(23)
PLOT DATE : 10/14/2024 7:23 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

XXX.XX = EXISTING GRADE
XXX.XX = PROPOSED GRADE

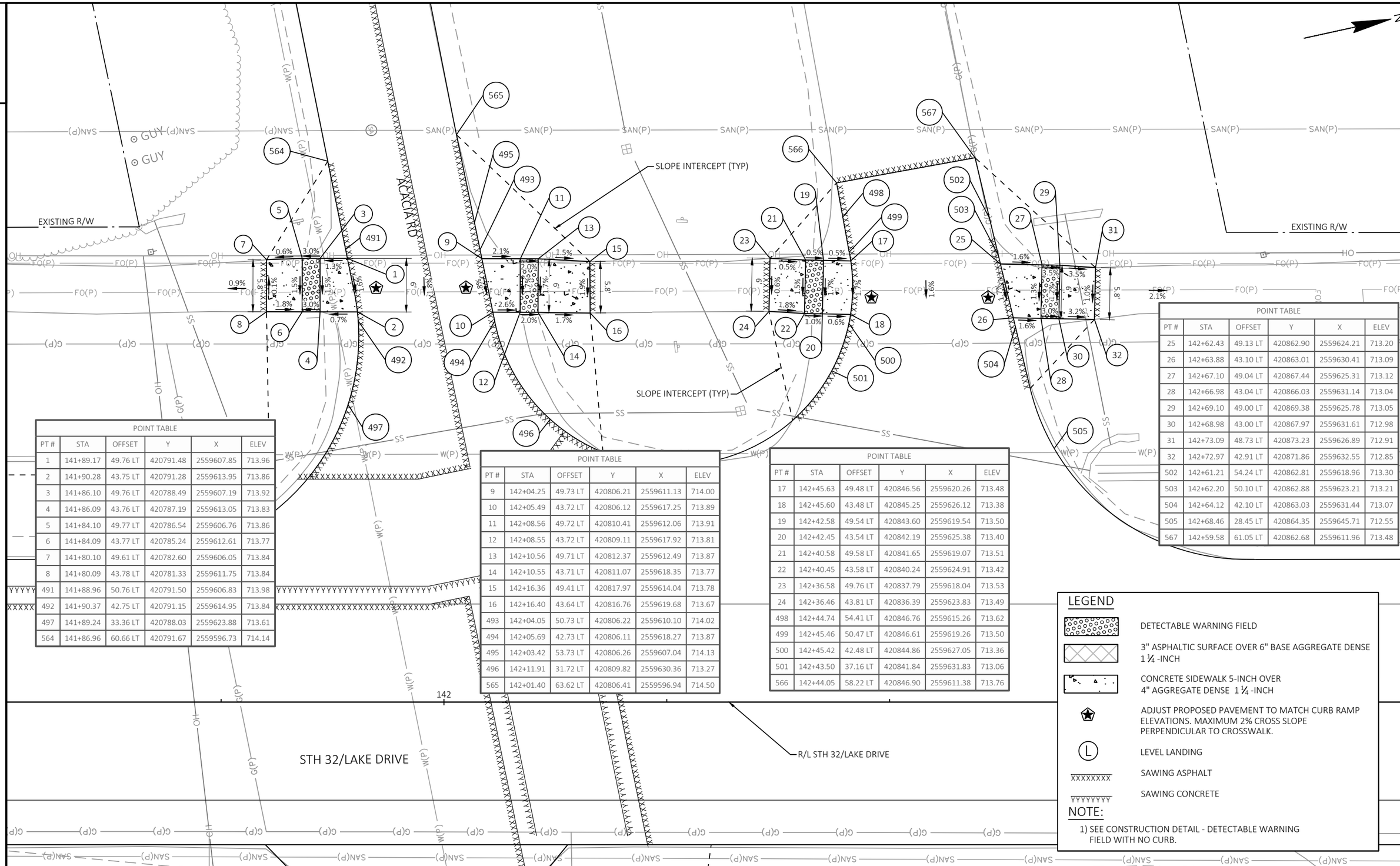
NOTE:

EXISTING PAVEMENT GRADES ARE PROVIDED FOR REFERENCE. GRADES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACHIEVE A SMOOTH RIDE.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 72	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021251-PG.DWG
LAYOUT NAME - PG-(24)
PLOT DATE : 10/14/2024 7:23 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT



POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
1	141+89.17	49.76 LT	420791.48	2559607.85	713.96
2	141+90.28	43.75 LT	420791.28	2559613.95	713.86
3	141+86.10	49.76 LT	420788.49	2559607.19	713.92
4	141+86.09	43.76 LT	420787.19	2559613.05	713.83
5	141+84.10	49.77 LT	420786.54	2559606.76	713.86
6	141+84.09	43.77 LT	420785.24	2559612.61	713.77
7	141+80.10	49.61 LT	420782.60	2559606.05	713.84
8	141+80.09	43.78 LT	420781.33	2559611.75	713.84
491	141+88.96	50.76 LT	420791.50	2559606.83	713.98
492	141+90.37	42.75 LT	420791.15	2559614.95	713.84
497	141+89.24	33.36 LT	420788.03	2559623.88	713.61
564	141+86.96	60.66 LT	420791.67	2559596.73	714.14

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
9	142+04.25	49.73 LT	420806.21	2559611.13	714.00
10	142+05.49	43.72 LT	420806.12	2559617.25	713.89
11	142+08.56	49.72 LT	420810.41	2559612.06	713.91
12	142+08.55	43.72 LT	420809.11	2559617.92	713.81
13	142+10.56	49.71 LT	420812.37	2559612.49	713.87
14	142+10.55	43.71 LT	420811.07	2559618.35	713.77
15	142+16.36	49.41 LT	420817.97	2559614.04	713.78
16	142+16.40	43.64 LT	420816.76	2559619.68	713.67
493	142+04.05	50.73 LT	420806.22	2559610.10	714.02
494	142+05.69	42.73 LT	420806.11	2559618.27	713.87
495	142+03.42	53.73 LT	420806.26	2559607.04	714.13
496	142+11.91	31.72 LT	420809.82	2559630.36	713.27
565	142+01.40	63.62 LT	420806.41	2559596.94	714.50

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
17	142+45.63	49.48 LT	420846.56	2559620.26	713.48
18	142+45.60	43.48 LT	420845.25	2559626.12	713.38
19	142+42.58	49.54 LT	420843.60	2559619.54	713.50
20	142+42.45	43.54 LT	420842.19	2559625.38	713.40
21	142+40.58	49.58 LT	420841.65	2559619.07	713.51
22	142+40.45	43.58 LT	420840.24	2559624.91	713.42
23	142+36.58	49.76 LT	420837.79	2559618.04	713.53
24	142+36.46	43.81 LT	420836.39	2559623.83	713.49
498	142+44.74	54.41 LT	420846.76	2559615.26	713.62
499	142+45.46	50.47 LT	420846.61	2559619.26	713.50
500	142+45.42	42.48 LT	420844.86	2559627.05	713.36
501	142+43.50	37.16 LT	420841.84	2559631.83	713.06
566	142+44.05	58.22 LT	420846.90	2559611.38	713.76

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
25	142+62.43	49.13 LT	420862.90	2559624.21	713.20
26	142+63.88	43.10 LT	420863.01	2559630.41	713.09
27	142+67.10	49.04 LT	420867.44	2559625.31	713.12
28	142+66.98	43.04 LT	420866.03	2559631.14	713.04
29	142+69.10	49.00 LT	420869.38	2559625.78	713.05
30	142+68.98	43.00 LT	420867.97	2559631.61	712.98
31	142+73.09	48.73 LT	420873.23	2559626.89	712.91
32	142+72.97	42.91 LT	420871.86	2559632.55	712.85
502	142+61.21	54.24 LT	420862.81	2559618.96	713.30
503	142+62.20	50.10 LT	420862.88	2559623.21	713.21
504	142+64.12	42.10 LT	420863.03	2559631.44	713.07
505	142+68.46	28.45 LT	420864.35	2559645.71	712.55
567	142+59.58	61.05 LT	420862.68	2559611.96	713.48

LEGEND

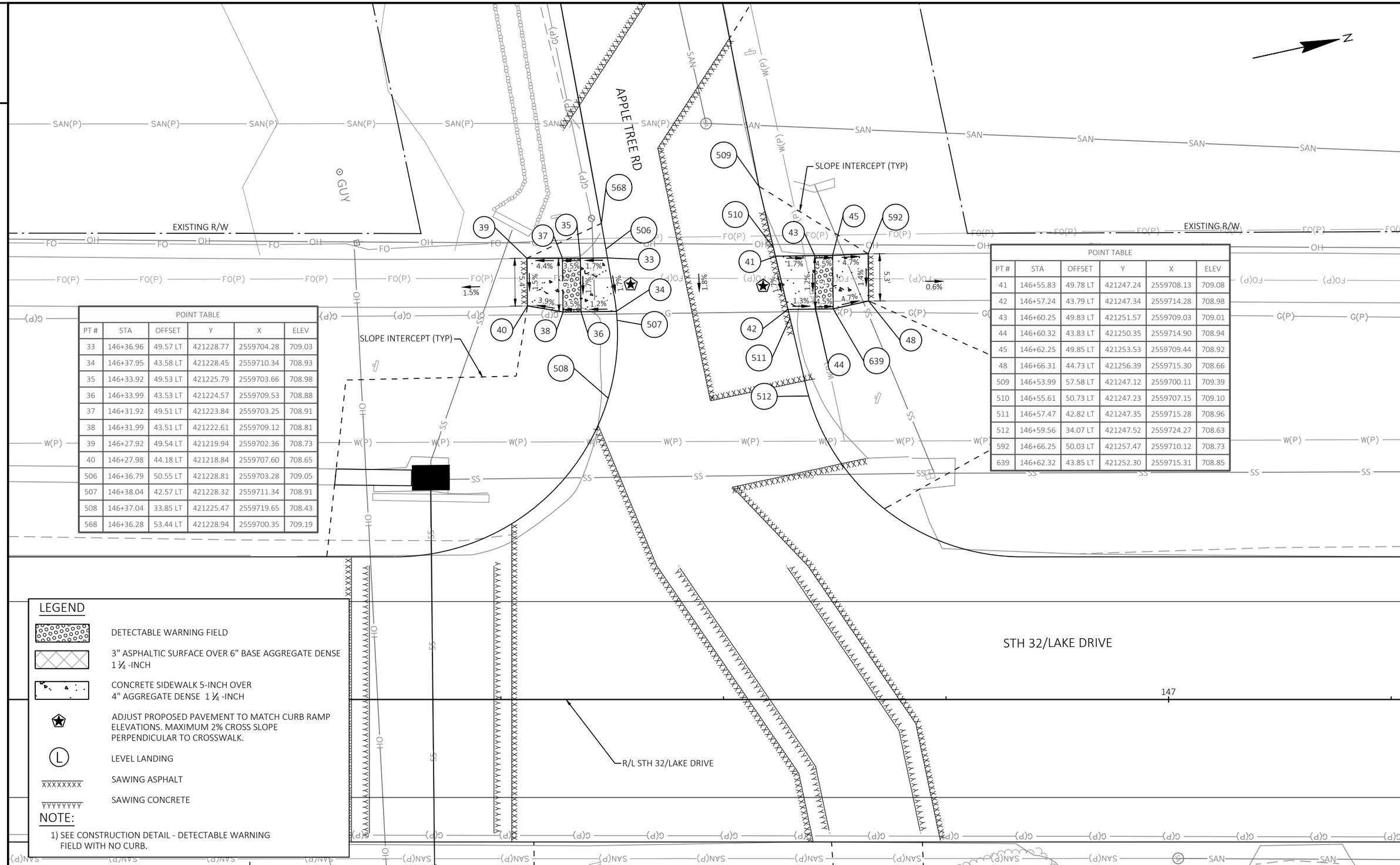
- DETECTABLE WARNING FIELD
- 3" ASPHALTIC SURFACE OVER 6" BASE AGGREGATE DENSE 1 ¼ -INCH
- CONCRETE SIDEWALK 5-INCH OVER 4" AGGREGATE DENSE 1 ¼ -INCH
- ADJUST PROPOSED PAVEMENT TO MATCH CURB RAMP ELEVATIONS. MAXIMUM 2% CROSS SLOPE PERPENDICULAR TO CROSSWALK.
- (L) LEVEL LANDING
- XXXXXXXX SAWING ASPHALT
- YYYYYYYY SAWING CONCRETE

NOTE:

1) SEE CONSTRUCTION DETAIL - DETECTABLE WARNING FIELD WITH NO CURB.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 73	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021299-CR.DWG
LAYOUT NAME - CR1
PLOT DATE : 10/14/2024 6:29 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:10 FT



POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
33	146+36.96	49.57 LT	421228.77	2559704.28	709.03
34	146+37.95	43.58 LT	421228.45	2559710.34	708.93
35	146+33.92	49.53 LT	421225.79	2559703.66	708.98
36	146+33.99	43.53 LT	421224.57	2559709.53	708.88
37	146+31.92	49.51 LT	421223.84	2559703.25	708.91
38	146+31.99	43.51 LT	421222.61	2559709.12	708.81
39	146+27.92	49.54 LT	421219.94	2559702.36	708.73
40	146+27.98	44.18 LT	421218.84	2559707.60	708.65
506	146+36.79	50.55 LT	421228.81	2559703.28	709.05
507	146+38.04	42.57 LT	421228.32	2559711.34	708.91
508	146+37.04	33.85 LT	421225.47	2559719.65	708.43
568	146+36.28	53.44 LT	421228.94	2559700.35	709.19

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
41	146+55.83	49.78 LT	421247.24	2559708.13	709.08
42	146+57.24	43.79 LT	421247.34	2559714.28	708.98
43	146+60.25	49.83 LT	421251.57	2559709.03	709.01
44	146+60.32	43.83 LT	421250.35	2559714.90	708.94
45	146+62.25	49.85 LT	421253.53	2559709.44	708.92
48	146+66.31	44.73 LT	421256.39	2559715.30	708.66
509	146+53.99	57.58 LT	421247.12	2559700.11	709.39
510	146+55.61	50.73 LT	421247.23	2559707.15	709.10
511	146+57.47	42.82 LT	421247.35	2559715.28	708.96
512	146+59.56	34.07 LT	421247.52	2559724.27	708.63
592	146+66.25	50.03 LT	421257.47	2559710.12	708.73
639	146+62.32	43.85 LT	421252.30	2559715.31	708.85

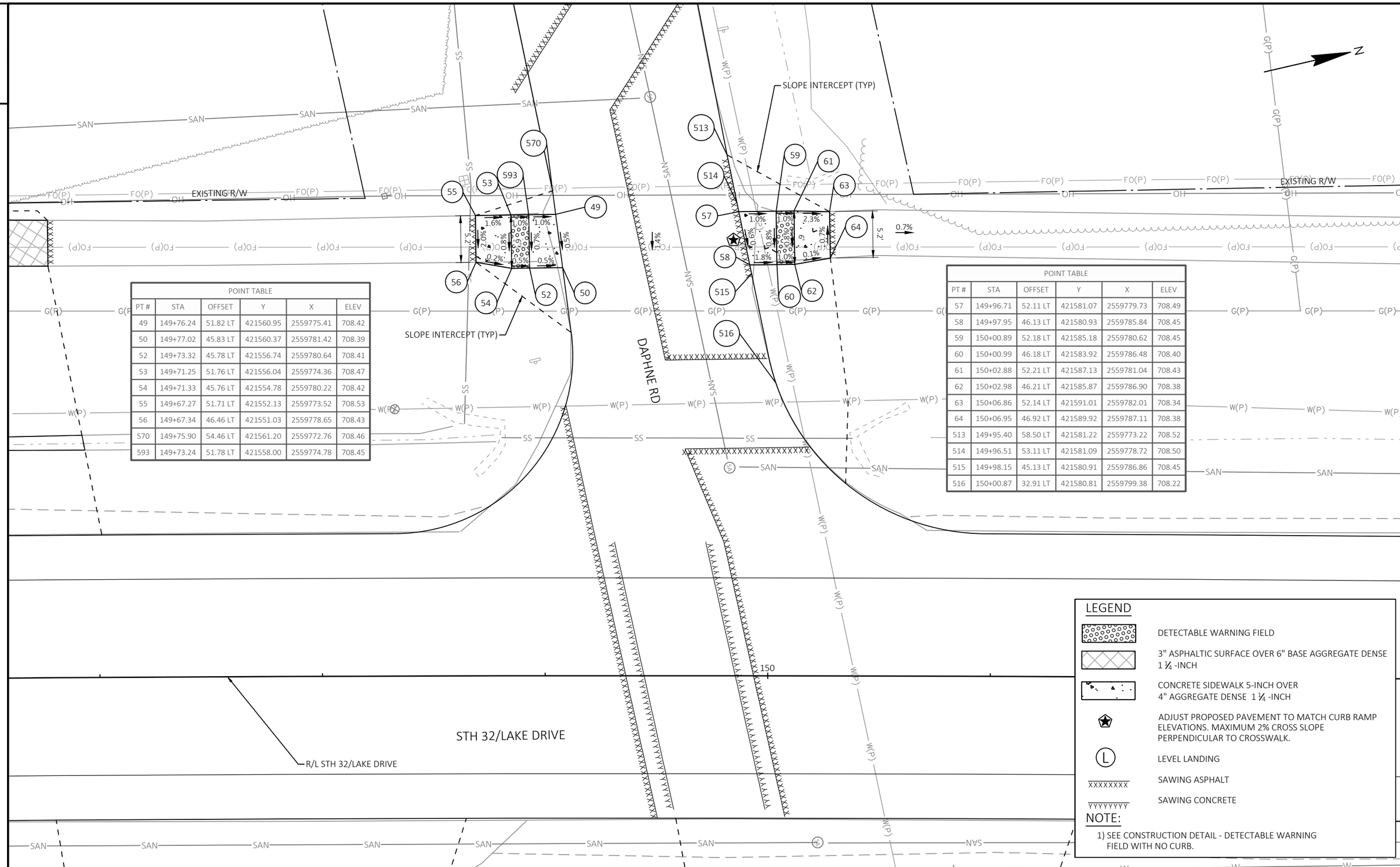
LEGEND

- DETECTABLE WARNING FIELD
- 3" ASPHALTIC SURFACE OVER 6" BASE AGGREGATE DENSE 1 ¼ -INCH
- CONCRETE SIDEWALK 5-INCH OVER 4" AGGREGATE DENSE 1 ¼ -INCH
- ADJUST PROPOSED PAVEMENT TO MATCH CURB RAMP ELEVATIONS. MAXIMUM 2% CROSS SLOPE PERPENDICULAR TO CROSSWALK.
- (L) LEVEL LANDING
- XXXXXXXX SAWING ASPHALT
- YYYYYYYY SAWING CONCRETE

NOTE:

1) SEE CONSTRUCTION DETAIL - DETECTABLE WARNING FIELD WITH NO CURB.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 74	E



POINT TABLE

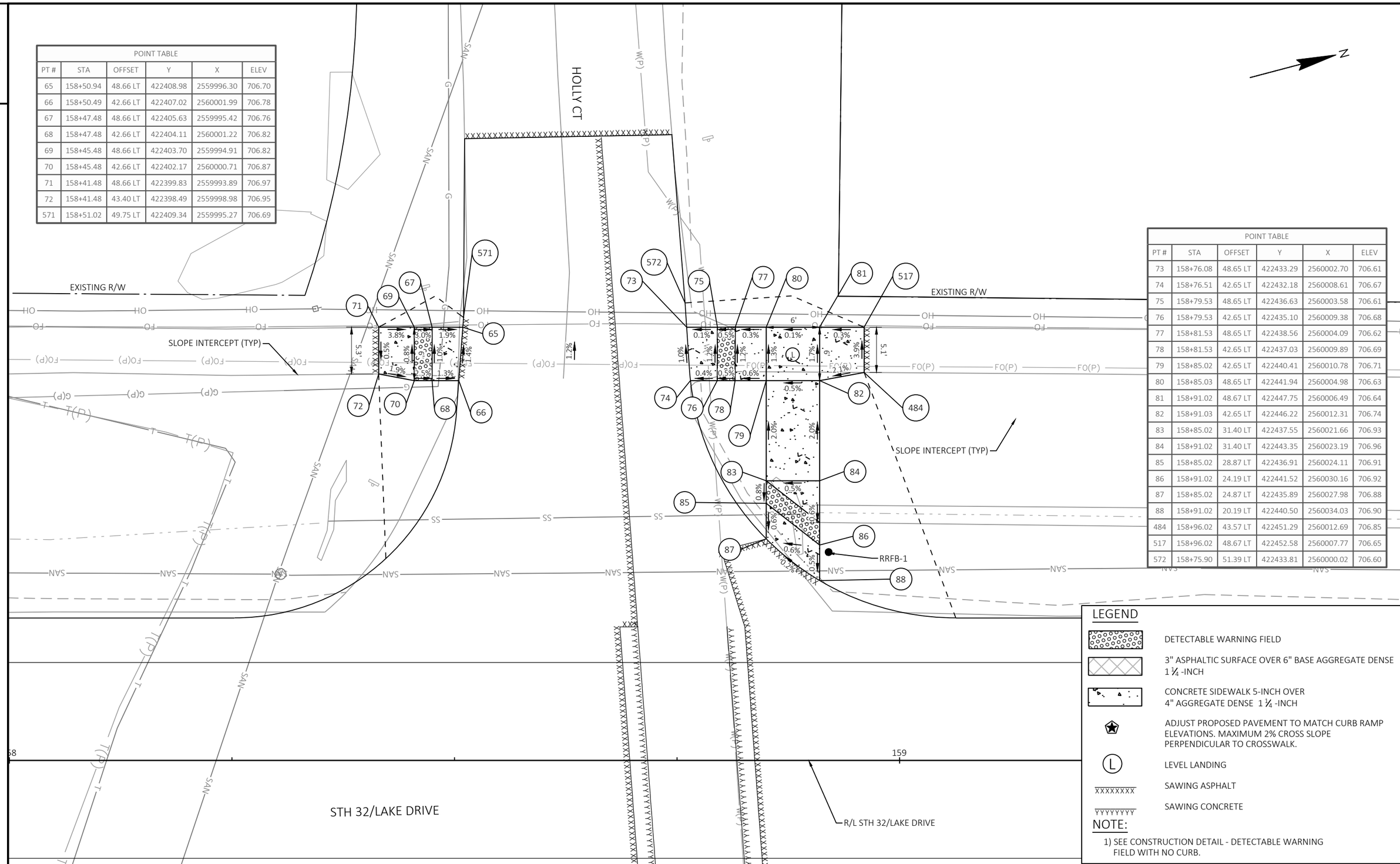
PT #	STA	OFFSET	Y	X	ELEV
49	149+76.24	51.82 LT	421560.95	2559775.41	708.42
50	149+77.02	45.83 LT	421560.37	2559781.42	708.39
52	149+73.32	45.78 LT	421556.74	2559780.64	708.41
53	149+71.25	51.76 LT	421556.04	2559774.36	708.47
54	149+71.33	45.76 LT	421554.78	2559780.22	708.42
55	149+67.27	51.71 LT	421552.13	2559773.52	708.53
56	149+67.34	46.46 LT	421551.03	2559778.65	708.43
570	149+75.90	54.46 LT	421561.20	2559772.76	708.46
593	149+73.24	51.78 LT	421558.00	2559774.78	708.45

POINT TABLE

PT #	STA	OFFSET	Y	X	ELEV
57	149+96.71	52.11 LT	421581.07	2559779.73	708.49
58	149+97.95	46.13 LT	421580.93	2559785.84	708.45
59	150+00.89	52.18 LT	421585.18	2559780.62	708.45
60	150+00.99	46.18 LT	421583.92	2559786.48	708.40
61	150+02.88	52.21 LT	421587.13	2559781.04	708.43
62	150+02.98	46.21 LT	421585.87	2559786.90	708.38
63	150+06.86	52.14 LT	421591.01	2559782.01	708.34
64	150+06.95	46.92 LT	421589.92	2559787.11	708.38
513	149+95.40	58.50 LT	421581.22	2559773.22	708.52
514	149+96.51	53.11 LT	421581.09	2559778.72	708.50
515	149+98.15	45.13 LT	421580.91	2559786.86	708.45
516	150+00.87	32.91 LT	421580.81	2559799.38	708.22

2

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
65	158+50.94	48.66 LT	422408.98	2559996.30	706.70
66	158+50.49	42.66 LT	422407.02	2560001.99	706.78
67	158+47.48	48.66 LT	422405.63	2559995.42	706.76
68	158+47.48	42.66 LT	422404.11	2560001.22	706.82
69	158+45.48	48.66 LT	422403.70	2559994.91	706.82
70	158+45.48	42.66 LT	422402.17	2560000.71	706.87
71	158+41.48	48.66 LT	422399.83	2559993.89	706.97
72	158+41.48	43.40 LT	422398.49	2559998.98	706.95
571	158+51.02	49.75 LT	422409.34	2559995.27	706.69



POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
73	158+76.08	48.65 LT	422433.29	2560002.70	706.61
74	158+76.51	42.65 LT	422432.18	2560008.61	706.67
75	158+79.53	48.65 LT	422436.63	2560003.58	706.61
76	158+79.53	42.65 LT	422435.10	2560009.38	706.68
77	158+81.53	48.65 LT	422438.56	2560004.09	706.62
78	158+81.53	42.65 LT	422437.03	2560009.89	706.69
79	158+85.02	42.65 LT	422440.41	2560010.78	706.71
80	158+85.03	48.65 LT	422441.94	2560004.98	706.63
81	158+91.02	48.67 LT	422447.75	2560006.49	706.64
82	158+91.03	42.65 LT	422446.22	2560012.31	706.74
83	158+85.02	31.40 LT	422437.55	2560021.66	706.93
84	158+91.02	31.40 LT	422443.35	2560023.19	706.96
85	158+85.02	28.87 LT	422436.91	2560024.11	706.91
86	158+91.02	24.19 LT	422441.52	2560030.16	706.92
87	158+85.02	24.87 LT	422435.89	2560027.98	706.88
88	158+91.02	20.19 LT	422440.50	2560034.03	706.90
484	158+96.02	43.57 LT	422451.29	2560012.69	706.85
517	158+96.02	48.67 LT	422452.58	2560007.77	706.65
572	158+75.90	51.39 LT	422433.81	2560000.02	706.60

LEGEND

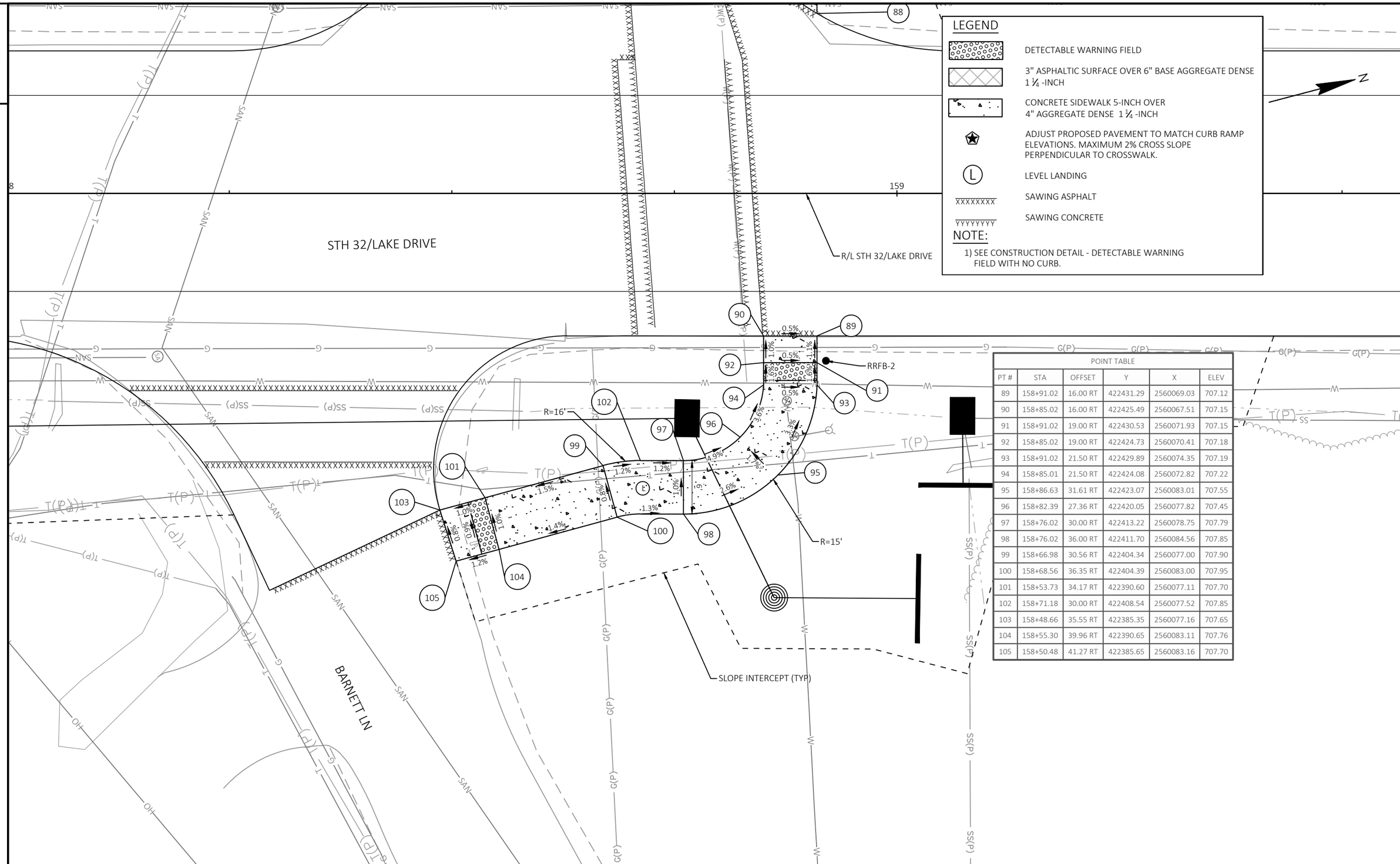
- DETECTABLE WARNING FIELD
- 3" ASPHALTIC SURFACE OVER 6" BASE AGGREGATE DENSE 1 ¼ -INCH
- CONCRETE SIDEWALK 5-INCH OVER 4" AGGREGATE DENSE 1 ¼ -INCH
- ADJUST PROPOSED PAVEMENT TO MATCH CURB RAMP ELEVATIONS. MAXIMUM 2% CROSS SLOPE PERPENDICULAR TO CROSSWALK.
- (L) LEVEL LANDING
- XXXXXXXX SAWING ASPHALT
- YYYYYYYY SAWING CONCRETE

NOTE:

1) SEE CONSTRUCTION DETAIL - DETECTABLE WARNING FIELD WITH NO CURB.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 76	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021299-CR.DWG
LAYOUT NAME - CR4
PLOT DATE : 10/14/2024 6:29 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



LEGEND

- DETECTABLE WARNING FIELD
- 3" ASPHALTIC SURFACE OVER 6" BASE AGGREGATE DENSE 1 ¼ -INCH
- CONCRETE SIDEWALK 5-INCH OVER 4" AGGREGATE DENSE 1 ¼ -INCH
- ADJUST PROPOSED PAVEMENT TO MATCH CURB RAMP ELEVATIONS. MAXIMUM 2% CROSS SLOPE PERPENDICULAR TO CROSSWALK.
- (L) LEVEL LANDING
- XXXXXXXX SAWING ASPHALT
- YYYYYYYY SAWING CONCRETE

NOTE:

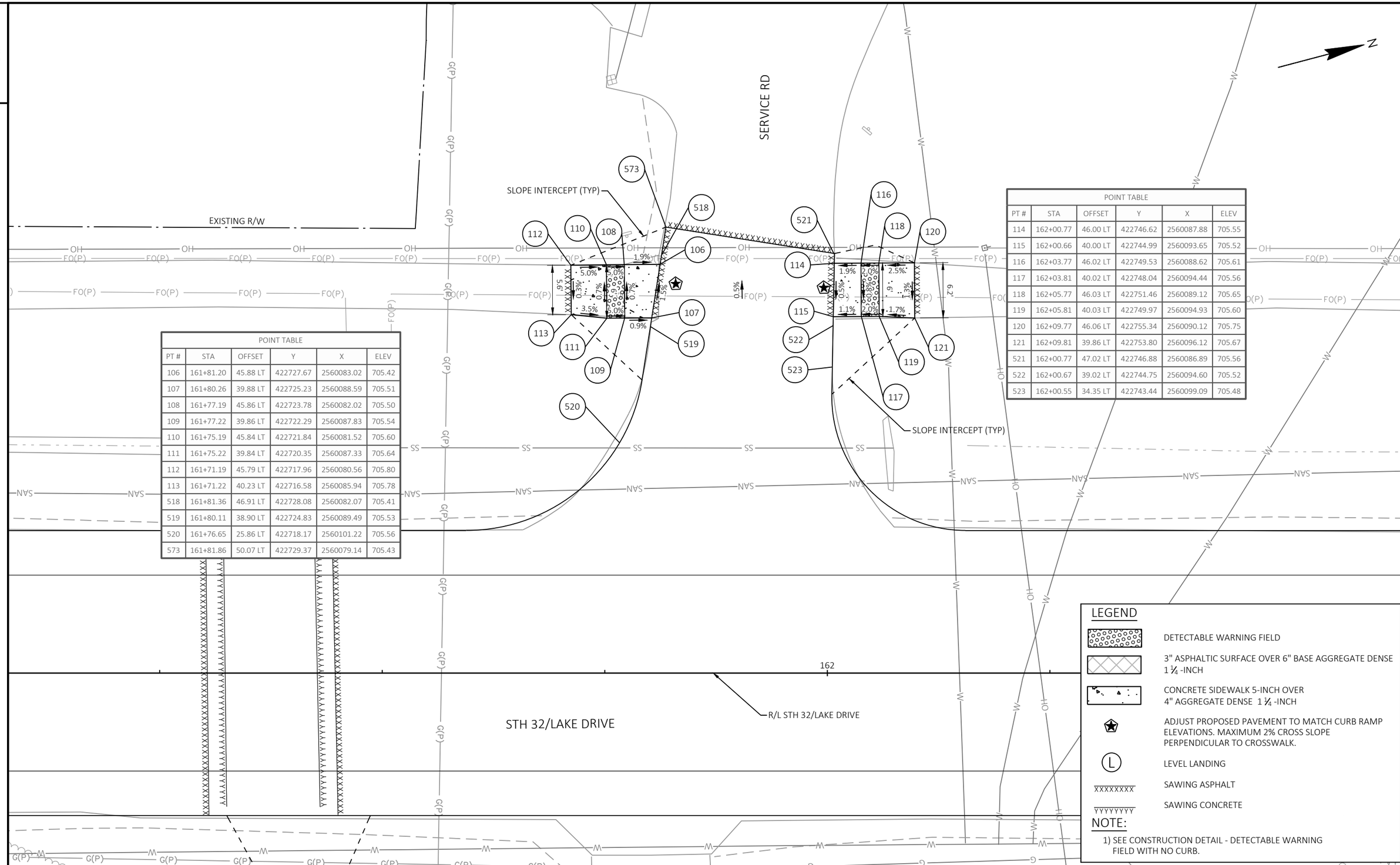
1) SEE CONSTRUCTION DETAIL - DETECTABLE WARNING FIELD WITH NO CURB.

POINT TABLE

PT #	STA	OFFSET	Y	X	ELEV
89	158+91.02	16.00 RT	422431.29	2560069.03	707.12
90	158+85.02	16.00 RT	422425.49	2560067.51	707.15
91	158+91.02	19.00 RT	422430.53	2560071.93	707.15
92	158+85.02	19.00 RT	422424.73	2560070.41	707.18
93	158+91.02	21.50 RT	422429.89	2560074.35	707.19
94	158+85.01	21.50 RT	422424.08	2560072.82	707.22
95	158+86.63	31.61 RT	422423.07	2560083.01	707.55
96	158+82.39	27.36 RT	422420.05	2560077.82	707.45
97	158+76.02	30.00 RT	422413.22	2560078.75	707.79
98	158+76.02	36.00 RT	422411.70	2560084.56	707.85
99	158+66.98	30.56 RT	422404.34	2560077.00	707.90
100	158+68.56	36.35 RT	422404.39	2560083.00	707.95
101	158+53.73	34.17 RT	422390.60	2560077.11	707.70
102	158+71.18	30.00 RT	422408.54	2560077.52	707.85
103	158+48.66	35.55 RT	422385.35	2560077.16	707.65
104	158+55.30	39.96 RT	422390.65	2560083.11	707.76
105	158+50.48	41.27 RT	422385.65	2560083.16	707.70

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 77	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021299-CR.DWG
LAYOUT NAME - CR5
PLOT DATE : 10/14/2024 6:30 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

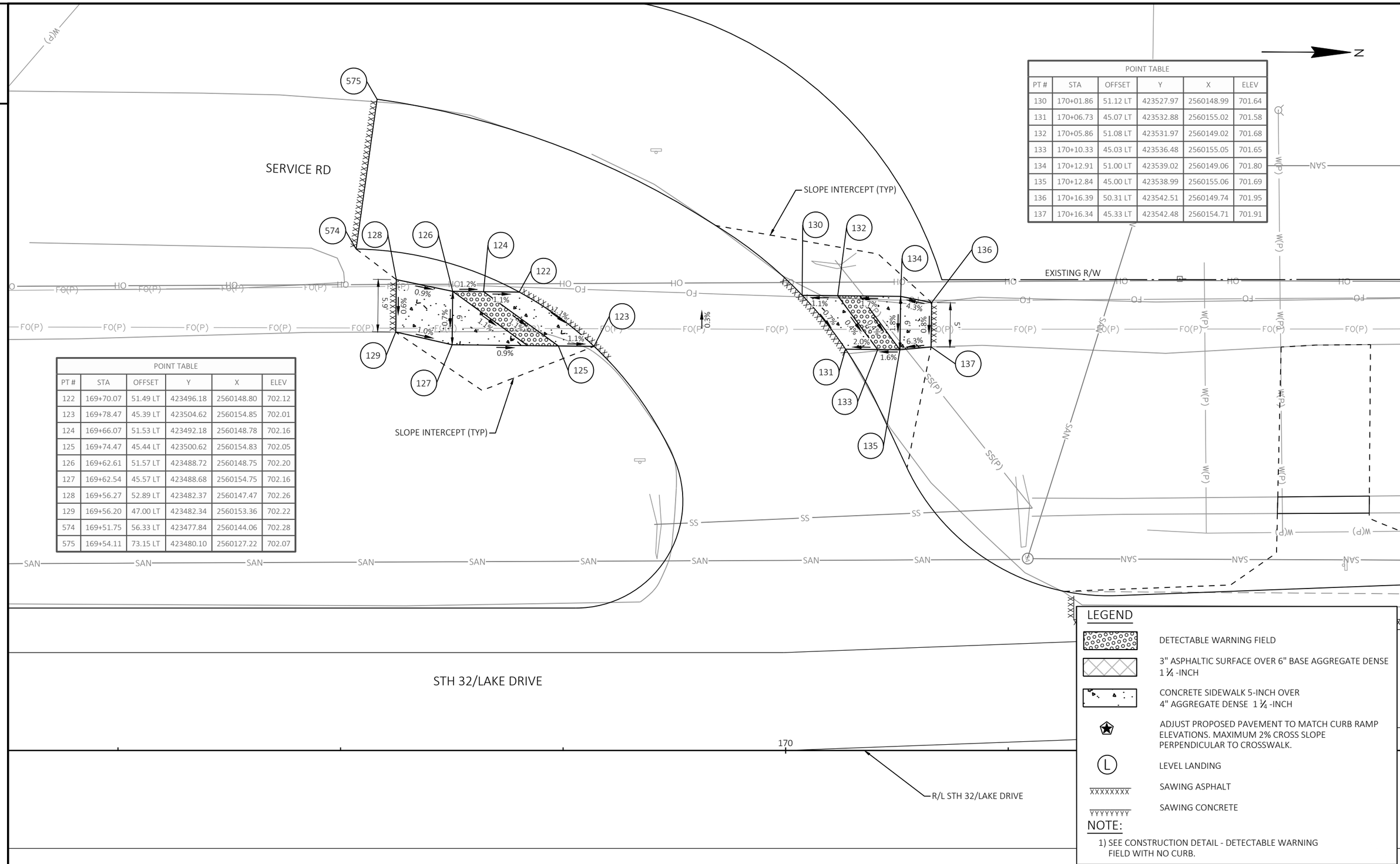


POINT TABLE

PT #	STA	OFFSET	Y	X	ELEV
106	161+81.20	45.88 LT	422727.67	2560083.02	705.42
107	161+80.26	39.88 LT	422725.23	2560088.59	705.51
108	161+77.19	45.86 LT	422723.78	2560082.02	705.50
109	161+77.22	39.86 LT	422722.29	2560087.83	705.54
110	161+75.19	45.84 LT	422721.84	2560081.52	705.60
111	161+75.22	39.84 LT	422720.35	2560087.33	705.64
112	161+71.19	45.79 LT	422717.96	2560080.56	705.80
113	161+71.22	40.23 LT	422716.58	2560085.94	705.78
518	161+81.36	46.91 LT	422728.08	2560082.07	705.41
519	161+80.11	38.90 LT	422724.83	2560089.49	705.53
520	161+76.65	25.86 LT	422718.17	2560101.22	705.56
573	161+81.86	50.07 LT	422729.37	2560079.14	705.43

POINT TABLE

PT #	STA	OFFSET	Y	X	ELEV
114	162+00.77	46.00 LT	422746.62	2560087.88	705.55
115	162+00.66	40.00 LT	422744.99	2560093.65	705.52
116	162+03.77	46.02 LT	422749.53	2560088.62	705.61
117	162+03.81	40.02 LT	422748.04	2560094.44	705.56
118	162+05.77	46.03 LT	422751.46	2560089.12	705.65
119	162+05.81	40.03 LT	422749.97	2560094.93	705.60
120	162+09.77	46.06 LT	422755.34	2560090.12	705.75
121	162+09.81	39.86 LT	422753.80	2560096.12	705.67
521	162+00.77	47.02 LT	422746.88	2560086.89	705.56
522	162+00.67	39.02 LT	422744.75	2560094.60	705.52
523	162+00.55	34.35 LT	422743.44	2560099.09	705.48



POINT TABLE

PT #	STA	OFFSET	Y	X	ELEV
122	169+70.07	51.49 LT	423496.18	2560148.80	702.12
123	169+78.47	45.39 LT	423504.62	2560154.85	702.01
124	169+66.07	51.53 LT	423492.18	2560148.78	702.16
125	169+74.47	45.44 LT	423500.62	2560154.83	702.05
126	169+62.61	51.57 LT	423488.72	2560148.75	702.20
127	169+62.54	45.57 LT	423488.68	2560154.75	702.16
128	169+56.27	52.89 LT	423482.37	2560147.47	702.26
129	169+56.20	47.00 LT	423482.34	2560153.36	702.22
574	169+51.75	56.33 LT	423477.84	2560144.06	702.28
575	169+54.11	73.15 LT	423480.10	2560127.22	702.07

POINT TABLE

PT #	STA	OFFSET	Y	X	ELEV
130	170+01.86	51.12 LT	423527.97	2560148.99	701.64
131	170+06.73	45.07 LT	423532.88	2560155.02	701.58
132	170+05.86	51.08 LT	423531.97	2560149.02	701.68
133	170+10.33	45.03 LT	423536.48	2560155.05	701.65
134	170+12.91	51.00 LT	423539.02	2560149.06	701.80
135	170+12.84	45.00 LT	423538.99	2560155.06	701.69
136	170+16.39	50.31 LT	423542.51	2560149.74	701.95
137	170+16.34	45.33 LT	423542.48	2560154.71	701.91

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 79	E

2

VILLAGE OF FOX POINT PARCEL

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
138	174+06.16	49.31 LT	423932.22	2560148.55	701.14
139	174+02.71	43.58 LT	423928.80	2560154.30	701.07
140	174+02.17	49.65 LT	423928.23	2560148.24	701.16
141	173+99.17	43.88 LT	423925.26	2560154.02	701.09
142	173+97.52	50.04 LT	423923.57	2560147.87	701.20
143	173+97.01	44.06 LT	423923.10	2560153.85	701.11
144	173+91.54	50.55 LT	423917.59	2560147.40	701.08
145	173+91.02	44.49 LT	423917.11	2560153.47	700.99

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
370	173+77.90	44.98 LT	423903.99	2560153.05	700.86
371	173+66.77	45.13 LT	423892.85	2560152.98	700.30
485	173+86.04	58.02 LT	423912.04	2560139.96	701.18
486	173+60.77	45.21 LT	423886.85	2560152.94	700.19
610	173+77.98	50.73 LT	423904.03	2560147.31	700.96
611	173+66.89	50.97 LT	423892.94	2560147.14	700.41
616	173+89.60	54.09 LT	423915.63	2560143.87	701.10
634	173+60.89	51.10 LT	423886.94	2560147.05	700.41

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
146	174+20.91	48.17 LT	423946.97	2560149.59	700.86
147	174+18.88	42.32 LT	423944.98	2560155.45	700.79
148	174+23.44	47.83 LT	423949.51	2560149.91	700.94
149	174+21.41	41.98 LT	423947.51	2560155.77	700.87
150	174+27.64	47.48 LT	423953.71	2560150.24	700.92
151	174+27.32	41.47 LT	423953.42	2560156.25	700.83
152	174+30.14	47.54 LT	423956.21	2560150.16	700.80
153	174+30.23	41.54 LT	423956.34	2560156.16	700.69
154	174+27.00	31.50 LT	423953.17	2560166.22	700.52
155	174+20.99	31.50 LT	423947.17	2560166.26	700.55
156	174+26.93	27.00 LT	423953.14	2560170.72	700.43
157	174+20.93	27.00 LT	423947.13	2560170.76	700.46
594	174+24.17	57.57 LT	423950.18	2560140.17	701.01
595	174+30.01	56.63 LT	423956.02	2560141.07	700.97
596	174+15.64	32.98 LT	423941.80	2560164.81	700.63
597	174+18.47	29.00 LT	423944.66	2560168.78	700.51
598	174+30.37	32.04 LT	423956.54	2560165.65	700.51
617	174+29.64	47.53 LT	423955.71	2560150.18	700.82
618	174+29.73	41.53 LT	423955.84	2560156.17	700.71
619	174+21.38	48.01 LT	423947.45	2560149.75	700.88
620	174+19.35	42.16 LT	423945.46	2560155.61	700.81
621	174+20.93	29.00 LT	423947.12	2560168.76	700.50
622	174+20.93	29.50 LT	423947.12	2560168.26	700.52
623	174+26.93	29.00 LT	423953.12	2560168.72	700.47
624	174+26.93	29.50 LT	423953.12	2560168.22	700.49
625	174+32.14	47.57 LT	423958.21	2560150.12	700.79
626	174+32.23	41.57 LT	423958.34	2560156.12	700.68
627	174+32.46	26.00 LT	423958.67	2560171.69	700.40
628	174+12.22	26.00 LT	423938.43	2560171.82	700.50
629	174+12.22	29.23 LT	423938.40	2560168.59	700.57
630	174+23.45	61.58 LT	423949.43	2560136.16	701.09
631	174+31.93	61.71 LT	423957.91	2560135.98	701.05
632	174+19.02	48.83 LT	423945.08	2560148.94	700.90
633	174+16.99	42.98 LT	423943.09	2560154.81	700.83
649	174+21.10	34.69 LT	423947.25	2560163.07	700.60
650	174+27.09	34.50 LT	423953.25	2560163.22	700.57

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
169	174+67.67	46.75 LT	423993.74	2560150.71	700.32
170	174+77.01	40.43 LT	424003.12	2560156.96	700.19
171	174+69.43	48.52 LT	423995.50	2560148.93	700.26
172	174+77.99	42.73 LT	424004.09	2560154.66	700.13
173	174+84.40	42.89 LT	424010.50	2560154.46	700.25
174	174+84.25	48.89 LT	424010.31	2560148.46	700.36
175	174+90.39	43.00 LT	424016.49	2560154.31	700.34
176	174+90.39	49.00 LT	424016.45	2560148.31	700.43
562	174+77.80	42.27 LT	424003.90	2560155.12	700.11
563	174+69.08	48.17 LT	423995.15	2560149.28	700.24
569	174+82.20	38.75 LT	424008.32	2560158.62	700.07
602	174+82.75	41.18 LT	424008.86	2560156.18	700.49
603	174+63.56	51.85 LT	423989.60	2560145.64	700.44
635	174+72.30	48.59 LT	423998.37	2560148.84	700.30
645	174+82.64	40.70 LT	424008.75	2560156.67	699.99
646	174+65.25	52.92 LT	423991.28	2560144.55	700.37
647	174+65.67	53.19 LT	423991.70	2560144.28	700.87

SLOPE INTERCEPT (TYP)

EXISTING R/W

R=2'

NON-TRAVERSABLE GRASS FLARE

RRFB-11

STH 32/LAKE DRIVE

GREEN TREE RD

R/L STH 32/LAKE DRIVE

RADIAL WARNING FIELD PANEL				
QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONGITUDINAL CHORD (FT)
NW	27.5	14.9	23.2	10.3

LEGEND

- DETECTABLE WARNING FIELD
- 3" ASPHALTIC SURFACE OVER 6" BASE AGGREGATE DENSE 1 ¼ -INCH
- CONCRETE SIDEWALK 5-INCH OVER 4" AGGREGATE DENSE 1 ¼ -INCH
- ADJUST PROPOSED PAVEMENT TO MATCH CURB RAMP ELEVATIONS. MAXIMUM 2% CROSS SLOPE PERPENDICULAR TO CROSSWALK.
- (L) LEVEL LANDING
- XXXXXXXX SAWING ASPHALT
- YYYYYYYY SAWING CONCRETE

NOTE:

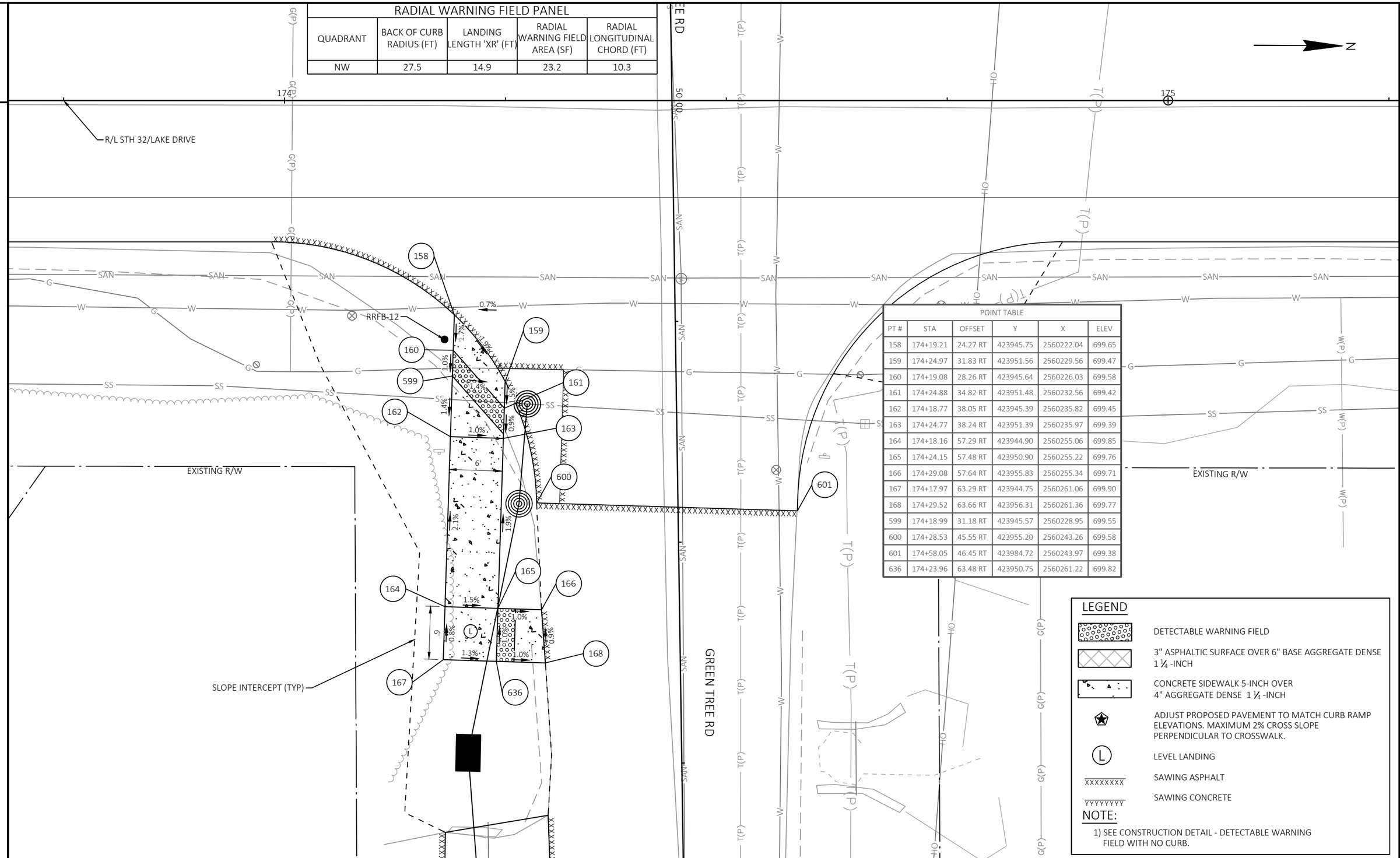
1) SEE CONSTRUCTION DETAIL - DETECTABLE WARNING FIELD WITH NO CURB.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 80	E

2

RADIAL WARNING FIELD PANEL

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONGITUDINAL CHORD (FT)
NW	27.5	14.9	23.2	10.3



POINT TABLE

PT #	STA	OFFSET	Y	X	ELEV
158	174+19.21	24.27 RT	423945.75	2560222.04	699.65
159	174+24.97	31.83 RT	423951.56	2560229.56	699.47
160	174+19.08	28.26 RT	423945.64	2560226.03	699.58
161	174+24.88	34.82 RT	423951.48	2560232.56	699.42
162	174+18.77	38.05 RT	423945.39	2560235.82	699.45
163	174+24.77	38.24 RT	423951.39	2560235.97	699.39
164	174+18.16	57.29 RT	423944.90	2560255.06	699.85
165	174+24.15	57.48 RT	423950.90	2560255.22	699.76
166	174+29.08	57.64 RT	423955.83	2560255.34	699.71
167	174+17.97	63.29 RT	423944.75	2560261.06	699.90
168	174+29.52	63.66 RT	423956.31	2560261.36	699.77
599	174+18.99	31.18 RT	423945.57	2560228.95	699.55
600	174+28.53	45.55 RT	423955.20	2560243.26	699.58
601	174+58.05	46.45 RT	423984.72	2560243.97	699.38
636	174+23.96	63.48 RT	423950.75	2560261.22	699.82

LEGEND

- DETECTABLE WARNING FIELD
- 3" ASPHALTIC SURFACE OVER 6" BASE AGGREGATE DENSE 1 ¼ -INCH
- CONCRETE SIDEWALK 5-INCH OVER 4" AGGREGATE DENSE 1 ¼ -INCH
- ADJUST PROPOSED PAVEMENT TO MATCH CURB RAMP ELEVATIONS. MAXIMUM 2% CROSS SLOPE PERPENDICULAR TO CROSSWALK.
- (L) LEVEL LANDING
- XXXXXXXX SAWING ASPHALT
- YYYYYYYY SAWING CONCRETE

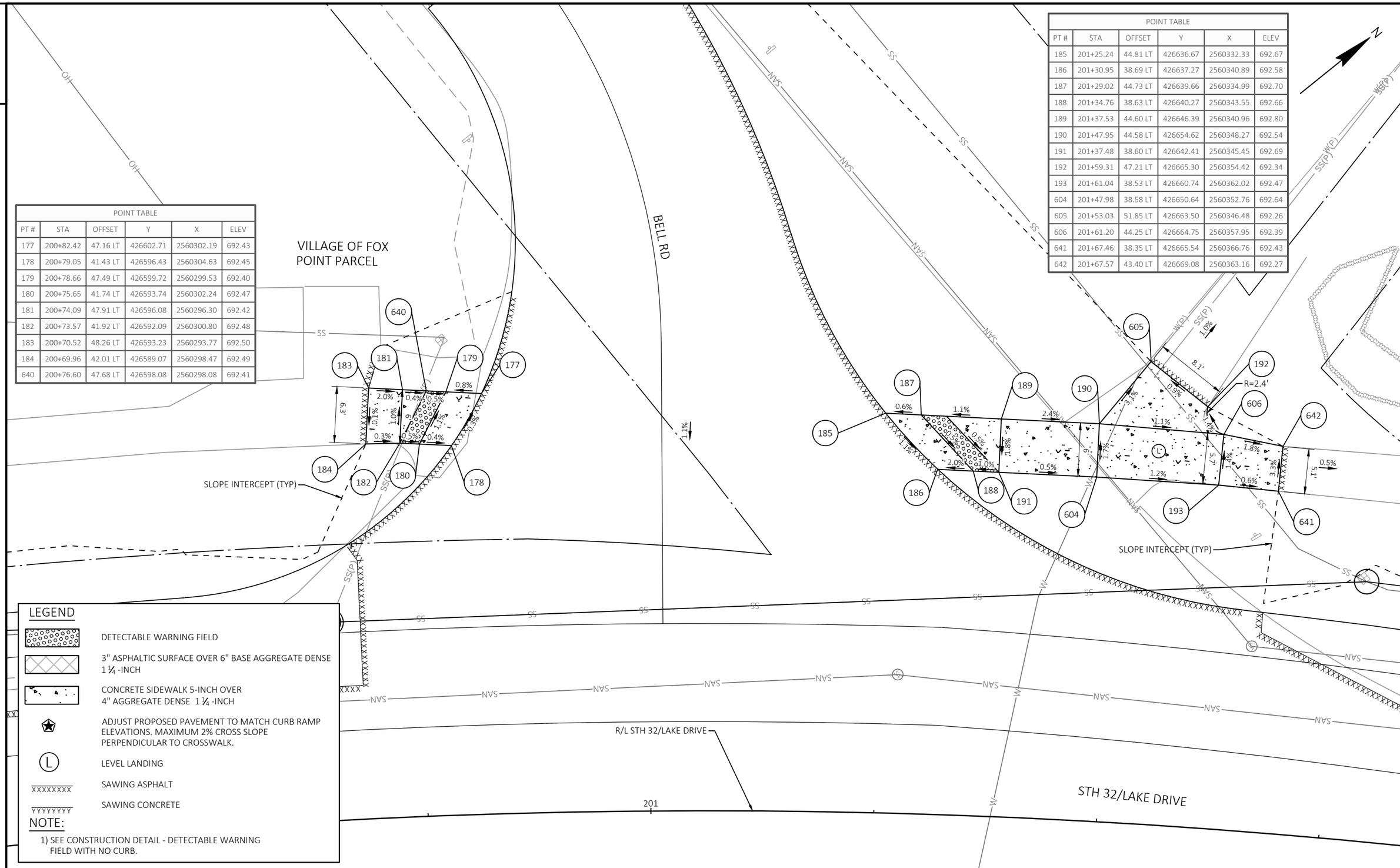
NOTE:

1) SEE CONSTRUCTION DETAIL - DETECTABLE WARNING FIELD WITH NO CURB.

2

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
177	200+82.42	47.16 LT	426602.71	2560302.19	692.43
178	200+79.05	41.43 LT	426596.43	2560304.63	692.45
179	200+78.66	47.49 LT	426599.72	2560299.53	692.40
180	200+75.65	41.74 LT	426593.74	2560302.24	692.47
181	200+74.09	47.91 LT	426596.08	2560296.30	692.42
182	200+73.57	41.92 LT	426592.09	2560300.80	692.48
183	200+70.52	48.26 LT	426593.23	2560293.77	692.50
184	200+69.96	42.01 LT	426589.07	2560298.47	692.49
640	200+76.60	47.68 LT	426598.08	2560298.08	692.41

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
185	201+25.24	44.81 LT	426636.67	2560332.33	692.67
186	201+30.95	38.69 LT	426637.27	2560340.89	692.58
187	201+29.02	44.73 LT	426639.66	2560334.99	692.70
188	201+34.76	38.63 LT	426640.27	2560343.55	692.66
189	201+37.53	44.60 LT	426646.39	2560340.96	692.80
190	201+47.95	44.58 LT	426654.62	2560348.27	692.54
191	201+37.48	38.60 LT	426642.41	2560345.45	692.69
192	201+59.31	47.21 LT	426665.30	2560354.42	692.34
193	201+61.04	38.53 LT	426660.74	2560362.02	692.47
604	201+47.98	38.58 LT	426650.64	2560352.76	692.64
605	201+53.03	51.85 LT	426663.50	2560346.48	692.26
606	201+61.20	44.25 LT	426664.75	2560357.95	692.39
641	201+67.46	38.35 LT	426665.54	2560366.76	692.43
642	201+67.57	43.40 LT	426669.08	2560363.16	692.27



LEGEND

- DETECTABLE WARNING FIELD
- 3" ASPHALTIC SURFACE OVER 6" BASE AGGREGATE DENSE 1 ¼ -INCH
- CONCRETE SIDEWALK 5-INCH OVER 4" AGGREGATE DENSE 1 ¼ -INCH
- ADJUST PROPOSED PAVEMENT TO MATCH CURB RAMP ELEVATIONS. MAXIMUM 2% CROSS SLOPE PERPENDICULAR TO CROSSWALK.
- (L) LEVEL LANDING
- XXXXXXXX SAWING ASPHALT
- YYYYYYYY SAWING CONCRETE

NOTE:

1) SEE CONSTRUCTION DETAIL - DETECTABLE WARNING FIELD WITH NO CURB.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 82	E

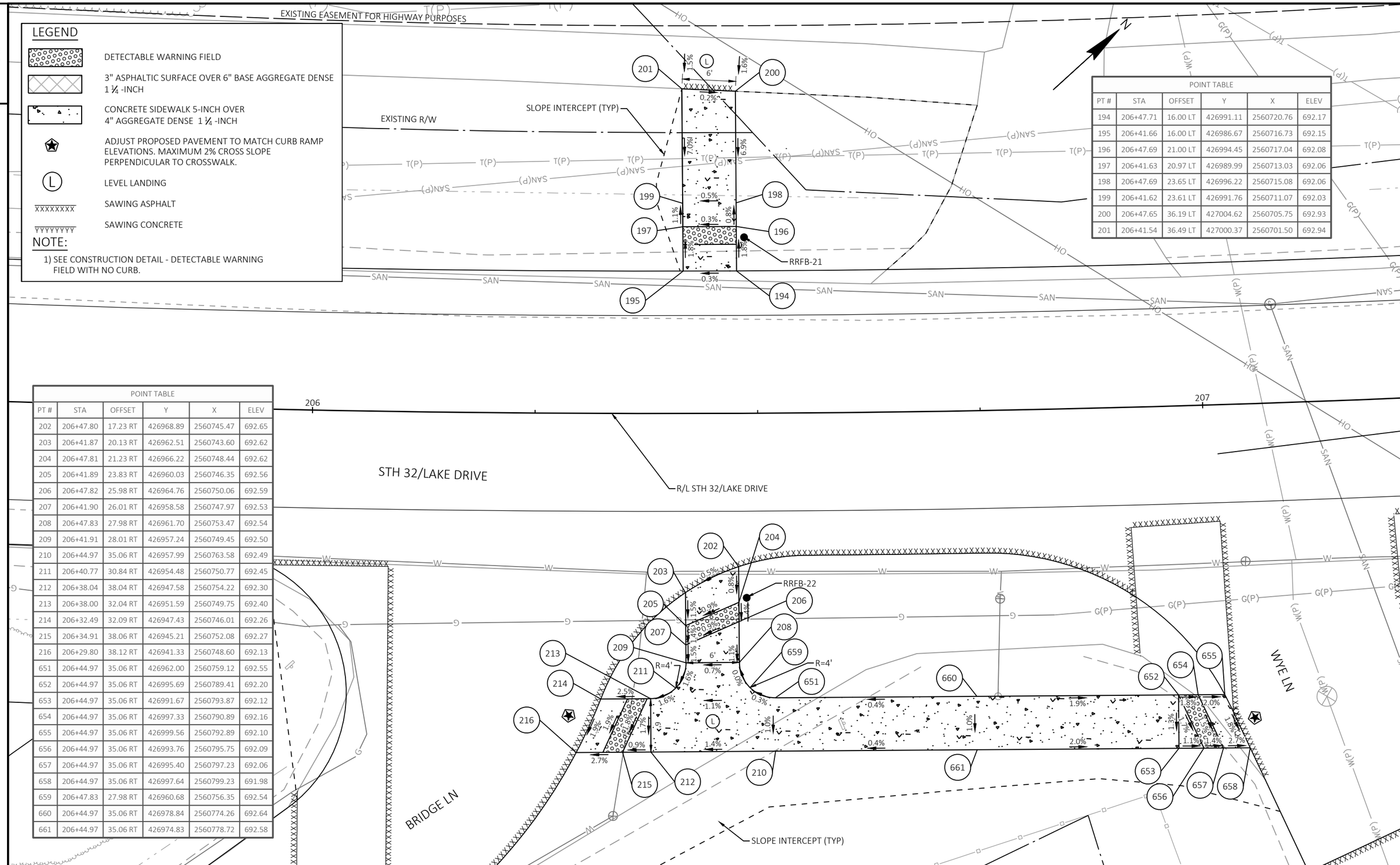
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021299-CR.DWG
LAYOUT NAME - CR10
PLOT DATE : 10/14/2024 6:31 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

LEGEND

- DETECTABLE WARNING FIELD
- 3" ASPHALTIC SURFACE OVER 6" BASE AGGREGATE DENSE 1 ¼ -INCH
- CONCRETE SIDEWALK 5-INCH OVER 4" AGGREGATE DENSE 1 ¼ -INCH
- ADJUST PROPOSED PAVEMENT TO MATCH CURB RAMP ELEVATIONS. MAXIMUM 2% CROSS SLOPE PERPENDICULAR TO CROSSWALK.
- (L) LEVEL LANDING
- XXXXXXXXX SAWING ASPHALT
- YYYYYYYYY SAWING CONCRETE

NOTE:

1) SEE CONSTRUCTION DETAIL - DETECTABLE WARNING FIELD WITH NO CURB.



POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
194	206+47.71	16.00 LT	426991.11	2560720.76	692.17
195	206+41.66	16.00 LT	426986.67	2560716.73	692.15
196	206+47.69	21.00 LT	426994.45	2560717.04	692.08
197	206+41.63	20.97 LT	426989.99	2560713.03	692.06
198	206+47.69	23.65 LT	426996.22	2560715.08	692.06
199	206+41.62	23.61 LT	426991.76	2560711.07	692.03
200	206+47.65	36.19 LT	427004.62	2560705.75	692.93
201	206+41.54	36.49 LT	427000.37	2560701.50	692.94

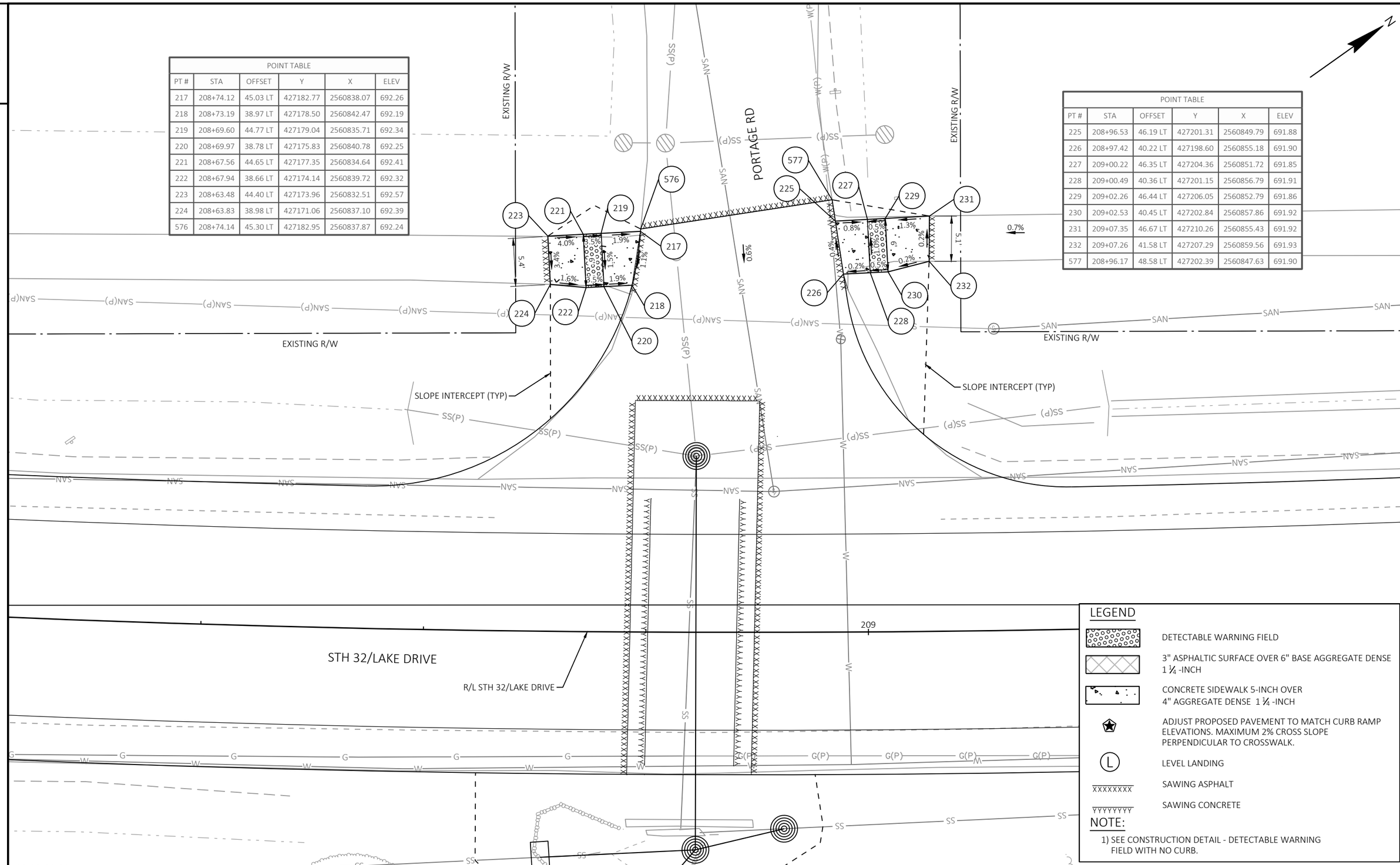
POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
202	206+47.80	17.23 RT	426968.89	2560745.47	692.65
203	206+41.87	20.13 RT	426962.51	2560743.60	692.62
204	206+47.81	21.23 RT	426966.22	2560748.44	692.62
205	206+41.89	23.83 RT	426960.03	2560746.35	692.56
206	206+47.82	25.98 RT	426964.76	2560750.06	692.59
207	206+41.90	26.01 RT	426958.58	2560747.97	692.53
208	206+47.83	27.98 RT	426961.70	2560753.47	692.54
209	206+41.91	28.01 RT	426957.24	2560749.45	692.50
210	206+44.97	35.06 RT	426957.99	2560763.58	692.49
211	206+40.77	30.84 RT	426954.48	2560750.77	692.45
212	206+38.04	38.04 RT	426947.58	2560754.22	692.30
213	206+38.00	32.04 RT	426951.59	2560749.75	692.40
214	206+32.49	32.09 RT	426947.43	2560746.01	692.26
215	206+34.91	38.06 RT	426945.21	2560752.08	692.27
216	206+29.80	38.12 RT	426941.33	2560748.60	692.13
651	206+44.97	35.06 RT	426962.00	2560759.12	692.55
652	206+44.97	35.06 RT	426995.69	2560789.41	692.20
653	206+44.97	35.06 RT	426991.67	2560793.87	692.12
654	206+44.97	35.06 RT	426997.33	2560790.89	692.16
655	206+44.97	35.06 RT	426999.56	2560792.89	692.10
656	206+44.97	35.06 RT	426993.76	2560795.75	692.09
657	206+44.97	35.06 RT	426995.40	2560797.23	692.06
658	206+44.97	35.06 RT	426997.64	2560799.23	691.98
659	206+47.83	27.98 RT	426960.68	2560756.35	692.54
660	206+44.97	35.06 RT	426978.84	2560774.26	692.64
661	206+44.97	35.06 RT	426974.83	2560778.72	692.58

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 83	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021299-CR.DWG
LAYOUT NAME - CR11
PLOT DATE : 10/14/2024 6:31 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:10 FT

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
217	208+74.12	45.03 LT	427182.77	2560838.07	692.26
218	208+73.19	38.97 LT	427178.50	2560842.47	692.19
219	208+69.60	44.77 LT	427179.04	2560835.71	692.34
220	208+69.97	38.78 LT	427175.83	2560840.78	692.25
221	208+67.56	44.65 LT	427177.35	2560834.64	692.41
222	208+67.94	38.66 LT	427174.14	2560839.72	692.32
223	208+63.48	44.40 LT	427173.96	2560832.51	692.57
224	208+63.83	38.98 LT	427171.06	2560837.10	692.39
576	208+74.14	45.30 LT	427182.95	2560837.87	692.24

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
225	208+96.53	46.19 LT	427201.31	2560849.79	691.88
226	208+97.42	40.22 LT	427198.60	2560855.18	691.90
227	209+00.22	46.35 LT	427204.36	2560851.72	691.85
228	209+00.49	40.36 LT	427201.15	2560856.79	691.91
229	209+02.26	46.44 LT	427206.05	2560852.79	691.86
230	209+02.53	40.45 LT	427202.84	2560857.86	691.92
231	209+07.35	46.67 LT	427210.26	2560855.43	691.92
232	209+07.26	41.58 LT	427207.29	2560859.56	691.93
577	208+96.17	48.58 LT	427202.39	2560847.63	691.90

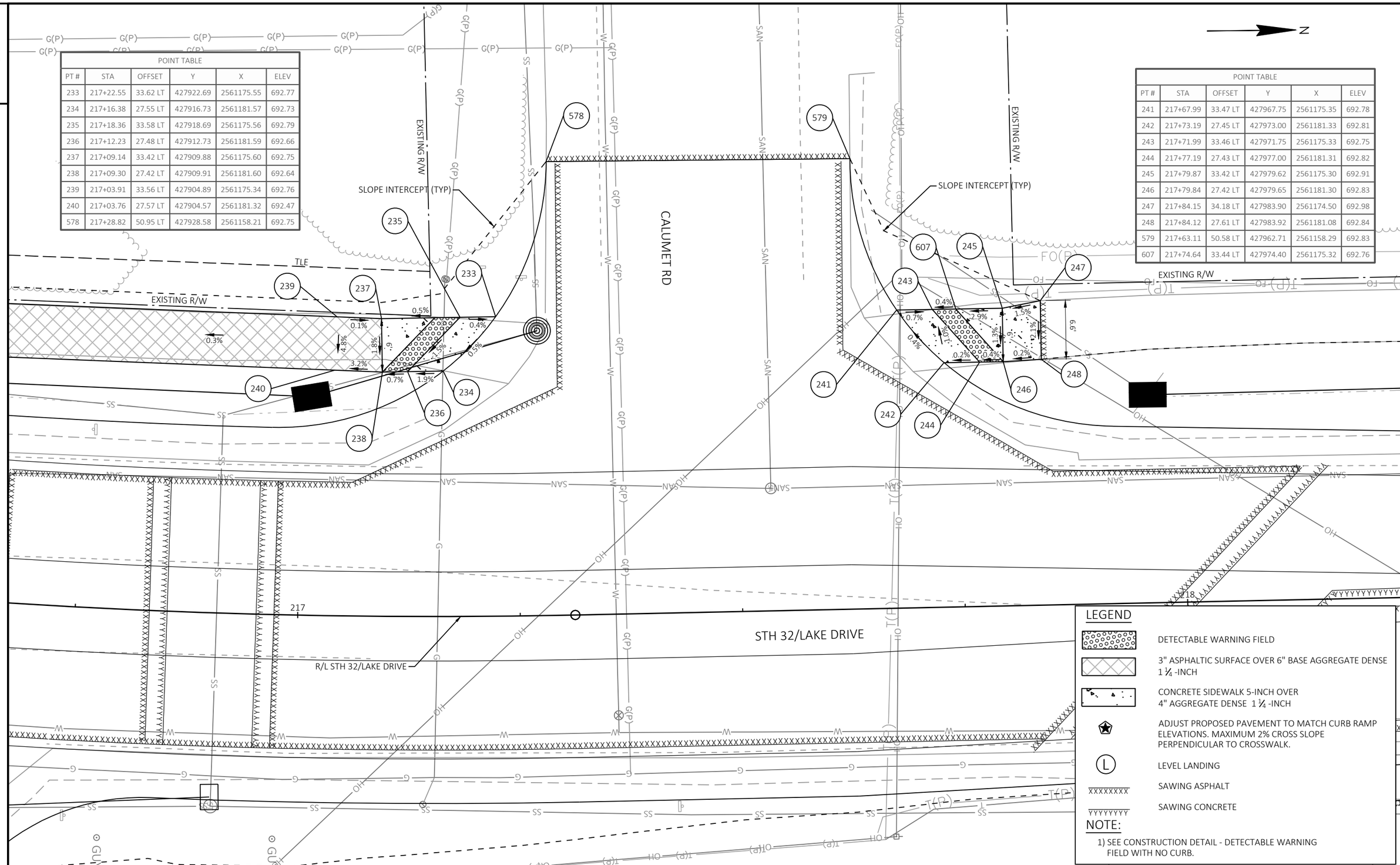


PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 84	E

2

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
233	217+22.55	33.62 LT	427922.69	2561175.55	692.77
234	217+16.38	27.55 LT	427916.73	2561181.57	692.73
235	217+18.36	33.58 LT	427918.69	2561175.56	692.79
236	217+12.23	27.48 LT	427912.73	2561181.59	692.66
237	217+09.14	33.42 LT	427909.88	2561175.60	692.75
238	217+09.30	27.42 LT	427909.91	2561181.60	692.64
239	217+03.91	33.56 LT	427904.89	2561175.34	692.76
240	217+03.76	27.57 LT	427904.57	2561181.32	692.47
578	217+28.82	50.95 LT	427928.58	2561158.21	692.75

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
241	217+67.99	33.47 LT	427967.75	2561175.35	692.78
242	217+73.19	27.45 LT	427973.00	2561181.33	692.81
243	217+71.99	33.46 LT	427971.75	2561175.33	692.75
244	217+77.19	27.43 LT	427977.00	2561181.31	692.82
245	217+79.87	33.42 LT	427979.62	2561175.30	692.91
246	217+79.84	27.42 LT	427979.65	2561181.30	692.83
247	217+84.15	34.18 LT	427983.90	2561174.50	692.98
248	217+84.12	27.61 LT	427983.92	2561181.08	692.84
579	217+63.11	50.58 LT	427962.71	2561158.29	692.83
607	217+74.64	33.44 LT	427974.40	2561175.32	692.76



PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 85	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021299-CR.DWG
LAYOUT NAME - CR13
PLOT DATE : 10/14/2024 6:32 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:10 FT

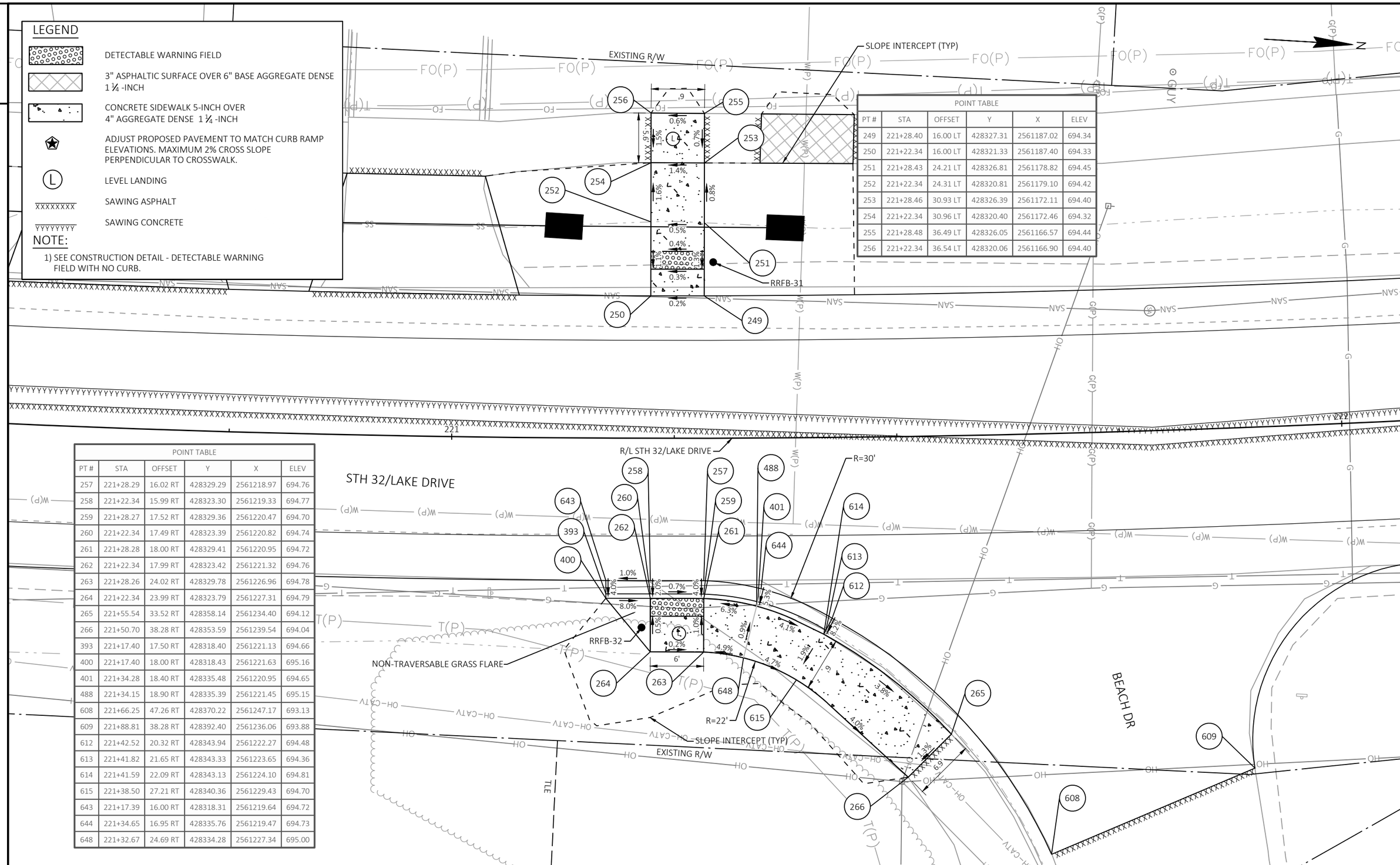
WISDOT/CADDS SHEET 42

LEGEND

- DETECTABLE WARNING FIELD
- 3" ASPHALTIC SURFACE OVER 6" BASE AGGREGATE DENSE 1 ¼ -INCH
- CONCRETE SIDEWALK 5-INCH OVER 4" AGGREGATE DENSE 1 ¼ -INCH
- ADJUST PROPOSED PAVEMENT TO MATCH CURB RAMP ELEVATIONS. MAXIMUM 2% CROSS SLOPE PERPENDICULAR TO CROSSWALK.
- (L) LEVEL LANDING
- XXXXXXXX SAWING ASPHALT
- YYYYYYYY SAWING CONCRETE

NOTE:

1) SEE CONSTRUCTION DETAIL - DETECTABLE WARNING FIELD WITH NO CURB.

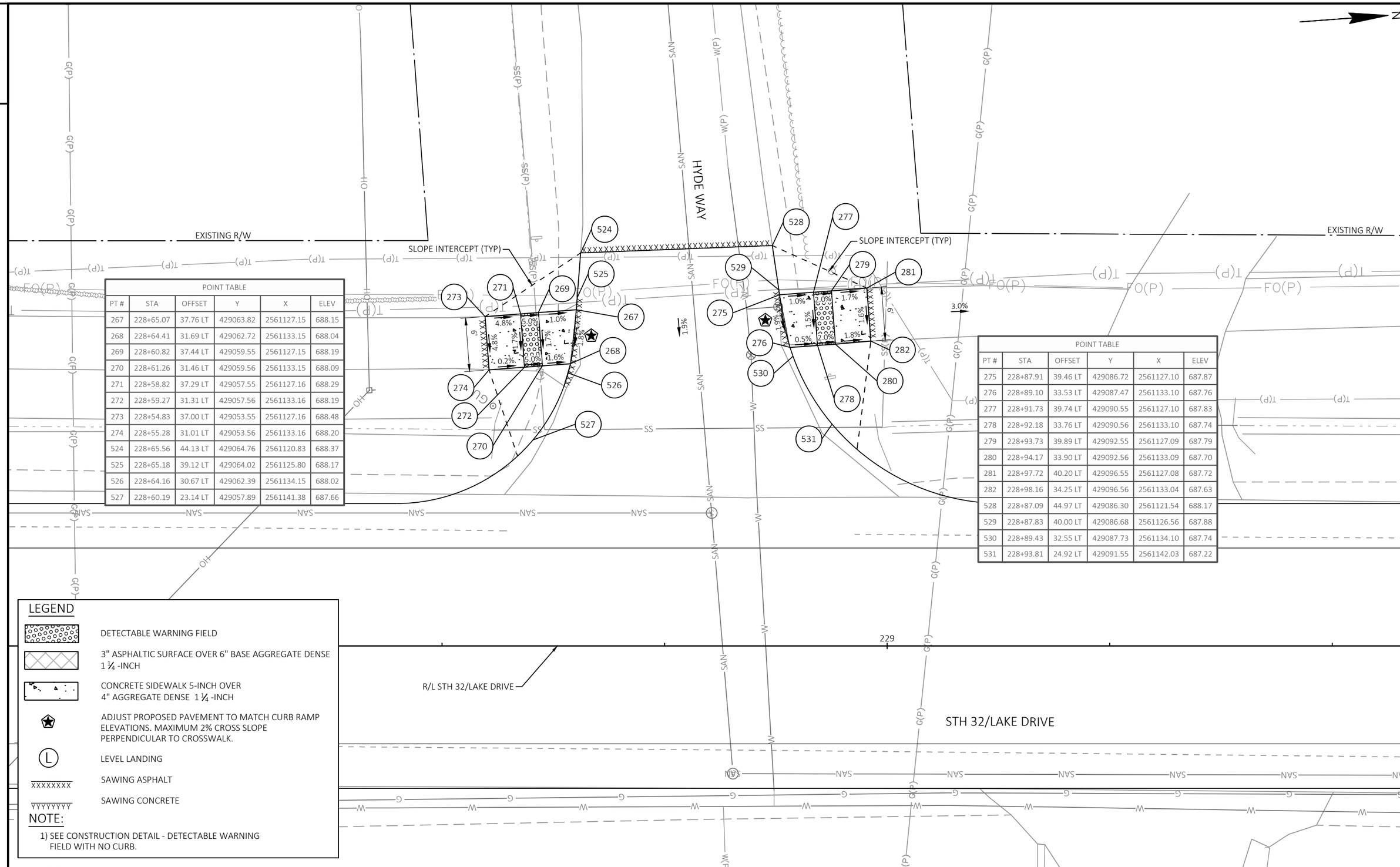


POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
249	221+28.40	16.00 LT	428327.31	2561187.02	694.34
250	221+22.34	16.00 LT	428321.33	2561187.40	694.33
251	221+28.43	24.21 LT	428326.81	2561178.82	694.45
252	221+22.34	24.31 LT	428320.81	2561179.10	694.42
253	221+28.46	30.93 LT	428326.39	2561172.11	694.40
254	221+22.34	30.96 LT	428320.40	2561172.46	694.32
255	221+28.48	36.49 LT	428326.05	2561166.57	694.44
256	221+22.34	36.54 LT	428320.06	2561166.90	694.40

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
257	221+28.29	16.02 RT	428329.29	2561218.97	694.76
258	221+22.34	15.99 RT	428323.30	2561219.33	694.77
259	221+28.27	17.52 RT	428329.36	2561220.47	694.70
260	221+22.34	17.49 RT	428323.39	2561220.82	694.74
261	221+28.28	18.00 RT	428329.41	2561220.95	694.72
262	221+22.34	17.99 RT	428323.42	2561221.32	694.76
263	221+28.26	24.02 RT	428329.78	2561226.96	694.78
264	221+22.34	23.99 RT	428323.79	2561227.31	694.79
265	221+55.54	33.52 RT	428358.14	2561234.40	694.12
266	221+50.70	38.28 RT	428353.59	2561239.54	694.04
393	221+17.40	17.50 RT	428318.40	2561221.13	694.66
400	221+17.40	18.00 RT	428318.43	2561221.63	695.16
401	221+34.28	18.40 RT	428335.48	2561220.95	694.65
488	221+34.15	18.90 RT	428335.39	2561221.45	695.15
608	221+66.25	47.26 RT	428370.22	2561247.17	693.13
609	221+88.81	38.28 RT	428392.40	2561236.06	693.88
612	221+42.52	20.32 RT	428343.94	2561222.27	694.48
613	221+41.82	21.65 RT	428343.33	2561223.65	694.36
614	221+41.59	22.09 RT	428343.13	2561224.10	694.81
615	221+38.50	27.21 RT	428340.36	2561229.43	694.70
643	221+17.39	16.00 RT	428318.31	2561219.64	694.72
644	221+34.65	16.95 RT	428335.76	2561219.47	694.73
648	221+32.67	24.69 RT	428334.28	2561227.34	695.00

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 86	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021299-CR.DWG
LAYOUT NAME - CR14
PLOT DATE : 10/14/2024 6:32 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
267	228+65.07	37.76 LT	429063.82	2561127.15	688.15
268	228+64.41	31.69 LT	429062.72	2561133.15	688.04
269	228+60.82	37.44 LT	429059.55	2561127.15	688.19
270	228+61.26	31.46 LT	429059.56	2561133.15	688.09
271	228+58.82	37.29 LT	429057.55	2561127.16	688.29
272	228+59.27	31.31 LT	429057.56	2561133.16	688.19
273	228+54.83	37.00 LT	429053.55	2561127.16	688.48
274	228+55.28	31.01 LT	429053.56	2561133.16	688.20
524	228+65.56	44.13 LT	429064.76	2561120.83	688.37
525	228+65.18	39.12 LT	429064.02	2561125.80	688.17
526	228+64.16	30.67 LT	429062.39	2561134.15	688.02
527	228+60.19	23.14 LT	429057.89	2561141.38	687.66

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
275	228+87.91	39.46 LT	429086.72	2561127.10	687.87
276	228+89.10	33.53 LT	429087.47	2561133.10	687.76
277	228+91.73	39.74 LT	429090.55	2561127.10	687.83
278	228+92.18	33.76 LT	429090.56	2561133.10	687.74
279	228+93.73	39.89 LT	429092.55	2561127.09	687.79
280	228+94.17	33.90 LT	429092.56	2561133.09	687.70
281	228+97.72	40.20 LT	429096.55	2561127.08	687.72
282	228+98.16	34.25 LT	429096.56	2561133.04	687.63
528	228+87.09	44.97 LT	429086.30	2561121.54	688.17
529	228+87.83	40.00 LT	429086.68	2561126.56	687.88
530	228+89.43	32.55 LT	429087.73	2561134.10	687.74
531	228+93.81	24.92 LT	429091.55	2561142.03	687.22

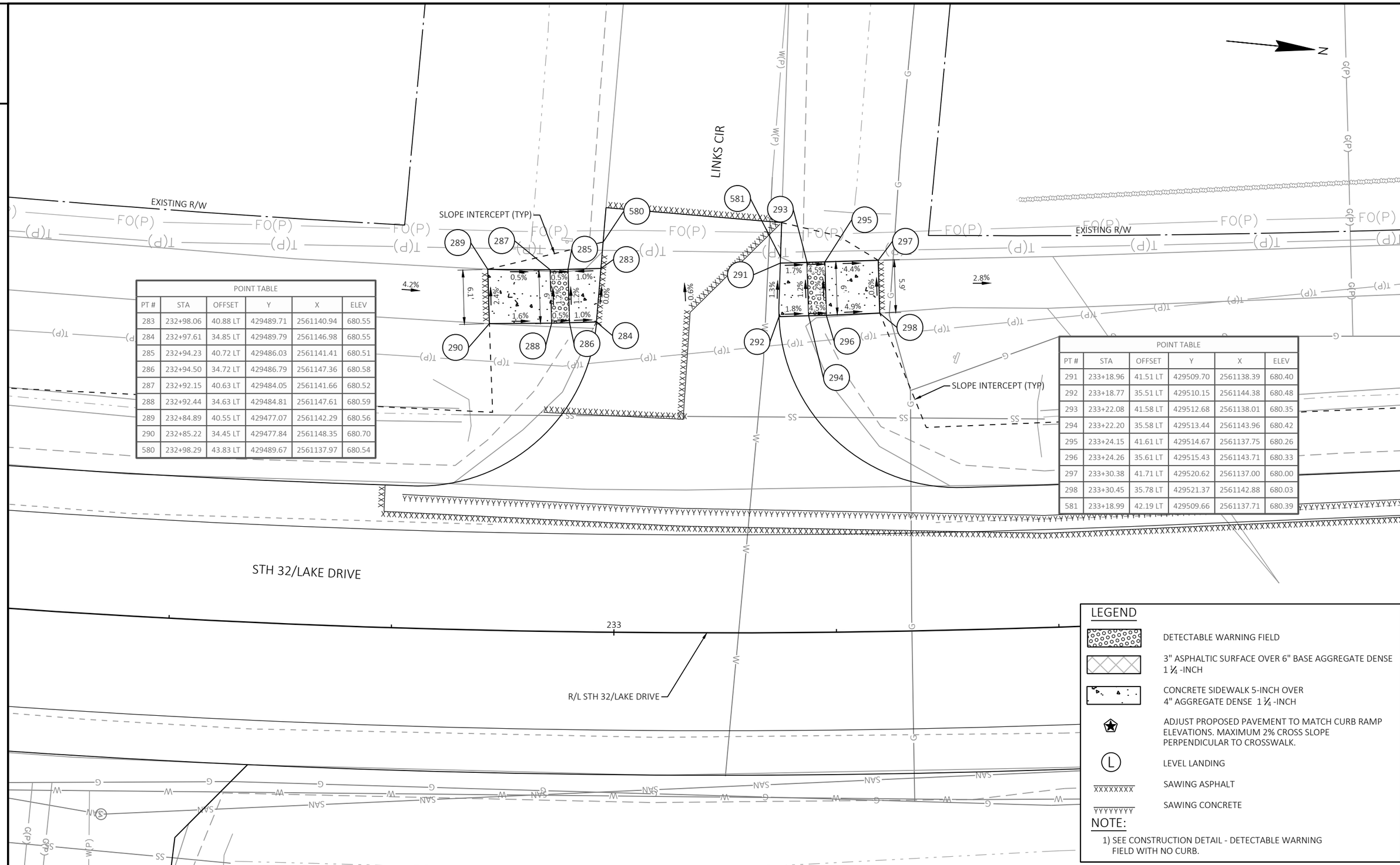
LEGEND

- DETECTABLE WARNING FIELD
- 3" ASPHALTIC SURFACE OVER 6" BASE AGGREGATE DENSE 1 ¼ -INCH
- CONCRETE SIDEWALK 5-INCH OVER 4" AGGREGATE DENSE 1 ¼ -INCH
- ADJUST PROPOSED PAVEMENT TO MATCH CURB RAMP ELEVATIONS. MAXIMUM 2% CROSS SLOPE PERPENDICULAR TO CROSSWALK.
- (L) LEVEL LANDING
- XXXXXXXX SAWING ASPHALT
- YYYYYYYY SAWING CONCRETE

NOTE:

1) SEE CONSTRUCTION DETAIL - DETECTABLE WARNING FIELD WITH NO CURB.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 87	E



POINT TABLE

PT #	STA	OFFSET	Y	X	ELEV
283	232+98.06	40.88 LT	429489.71	2561140.94	680.55
284	232+97.61	34.85 LT	429489.79	2561146.98	680.55
285	232+94.23	40.72 LT	429486.03	2561141.41	680.51
286	232+94.50	34.72 LT	429486.79	2561147.36	680.58
287	232+92.15	40.63 LT	429484.05	2561141.66	680.52
288	232+92.44	34.63 LT	429484.81	2561147.61	680.59
289	232+84.89	40.55 LT	429477.07	2561142.29	680.56
290	232+85.22	34.45 LT	429477.84	2561148.35	680.70
580	232+98.29	43.83 LT	429489.67	2561137.97	680.54

POINT TABLE

PT #	STA	OFFSET	Y	X	ELEV
291	233+18.96	41.51 LT	429509.70	2561138.39	680.40
292	233+18.77	35.51 LT	429510.15	2561144.38	680.48
293	233+22.08	41.58 LT	429512.68	2561138.01	680.35
294	233+22.20	35.58 LT	429513.44	2561143.96	680.42
295	233+24.15	41.61 LT	429514.67	2561137.75	680.26
296	233+24.26	35.61 LT	429515.43	2561143.71	680.33
297	233+30.38	41.71 LT	429520.62	2561137.00	680.00
298	233+30.45	35.78 LT	429521.37	2561142.88	680.03
581	233+18.99	42.19 LT	429509.66	2561137.71	680.39

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 88	E

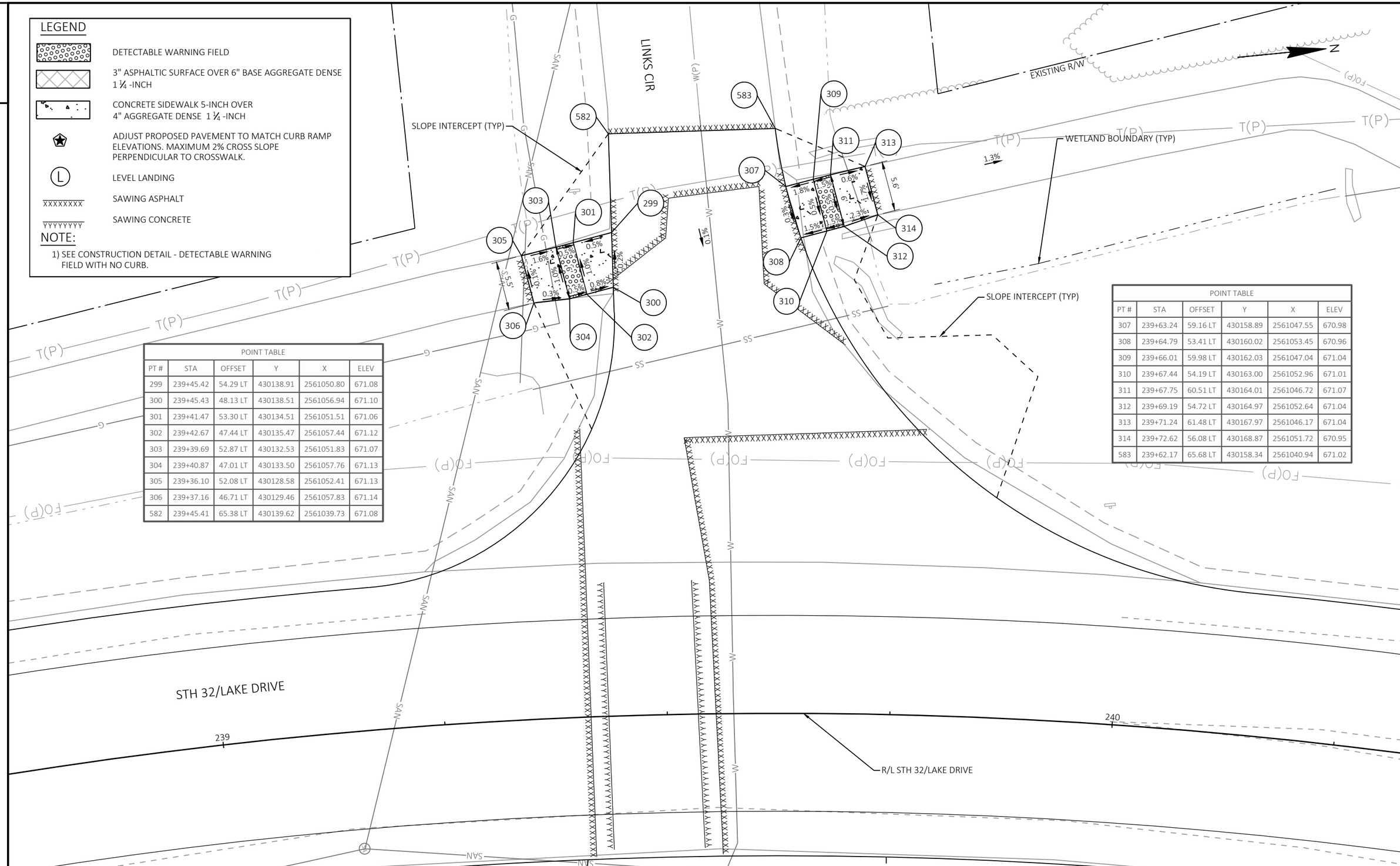
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021299-CR.DWG
LAYOUT NAME - CR16
PLOT DATE : 10/14/2024 6:32 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

LEGEND

- DETECTABLE WARNING FIELD
- 3" ASPHALTIC SURFACE OVER 6" BASE AGGREGATE DENSE 1 ¼ -INCH
- CONCRETE SIDEWALK 5-INCH OVER 4" AGGREGATE DENSE 1 ¼ -INCH
- ADJUST PROPOSED PAVEMENT TO MATCH CURB RAMP ELEVATIONS. MAXIMUM 2% CROSS SLOPE PERPENDICULAR TO CROSSWALK.
- (L) LEVEL LANDING
- XXXXXXXX SAWING ASPHALT
- YYYYYYYY SAWING CONCRETE

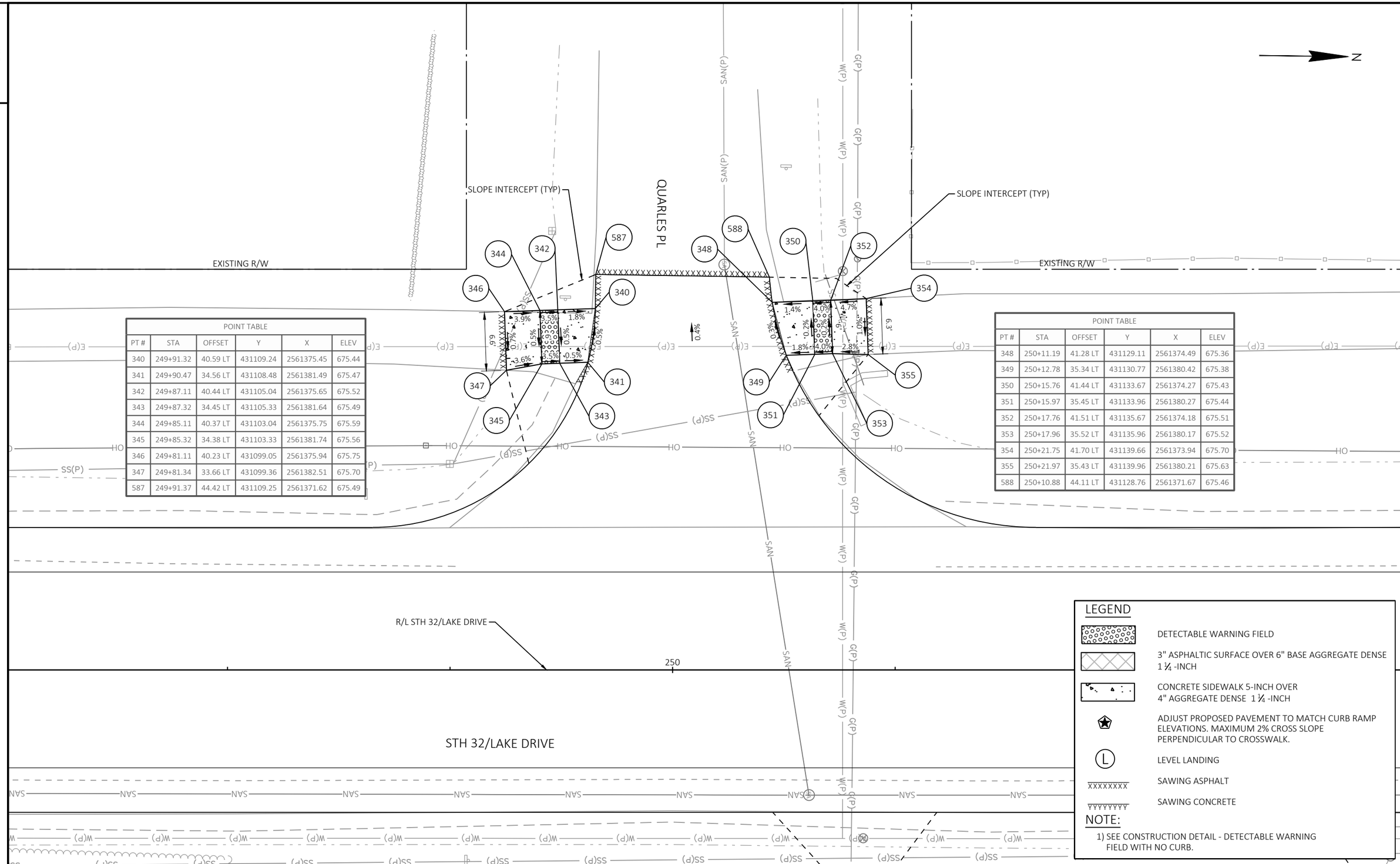
NOTE:

1) SEE CONSTRUCTION DETAIL - DETECTABLE WARNING FIELD WITH NO CURB.



POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
299	239+45.42	54.29 LT	430138.91	2561050.80	671.08
300	239+45.43	48.13 LT	430138.51	2561056.94	671.10
301	239+41.47	53.30 LT	430134.51	2561051.51	671.06
302	239+42.67	47.44 LT	430135.47	2561057.44	671.12
303	239+39.69	52.87 LT	430132.53	2561051.83	671.07
304	239+40.87	47.01 LT	430133.50	2561057.76	671.13
305	239+36.10	52.08 LT	430128.58	2561052.41	671.13
306	239+37.16	46.71 LT	430129.46	2561057.83	671.14
582	239+45.41	65.38 LT	430139.62	2561039.73	671.08

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
307	239+63.24	59.16 LT	430158.89	2561047.55	670.98
308	239+64.79	53.41 LT	430160.02	2561053.45	670.96
309	239+66.01	59.98 LT	430162.03	2561047.04	671.04
310	239+67.44	54.19 LT	430163.00	2561052.96	671.01
311	239+67.75	60.51 LT	430164.01	2561046.72	671.07
312	239+69.19	54.72 LT	430164.97	2561052.64	671.04
313	239+71.24	61.48 LT	430167.97	2561046.17	671.04
314	239+72.62	56.08 LT	430168.87	2561051.72	670.95
583	239+62.17	65.68 LT	430158.34	2561040.94	671.02



POINT TABLE

PT #	STA	OFFSET	Y	X	ELEV
340	249+91.32	40.59 LT	431109.24	2561375.45	675.44
341	249+90.47	34.56 LT	431108.48	2561381.49	675.47
342	249+87.11	40.44 LT	431105.04	2561375.65	675.52
343	249+87.32	34.45 LT	431105.33	2561381.64	675.49
344	249+85.11	40.37 LT	431103.04	2561375.75	675.59
345	249+85.32	34.38 LT	431103.33	2561381.74	675.56
346	249+81.11	40.23 LT	431099.05	2561375.94	675.75
347	249+81.34	33.66 LT	431099.36	2561382.51	675.70
587	249+91.37	44.42 LT	431109.25	2561371.62	675.49

POINT TABLE

PT #	STA	OFFSET	Y	X	ELEV
348	250+11.19	41.28 LT	431129.11	2561374.49	675.36
349	250+12.78	35.34 LT	431130.77	2561380.42	675.38
350	250+15.76	41.44 LT	431133.67	2561374.27	675.43
351	250+15.97	35.45 LT	431133.96	2561380.27	675.44
352	250+17.76	41.51 LT	431135.67	2561374.18	675.51
353	250+17.96	35.52 LT	431135.96	2561380.17	675.52
354	250+21.75	41.70 LT	431139.66	2561373.94	675.70
355	250+21.97	35.43 LT	431139.96	2561380.21	675.63
588	250+10.88	44.11 LT	431128.76	2561371.67	675.46

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 90	E

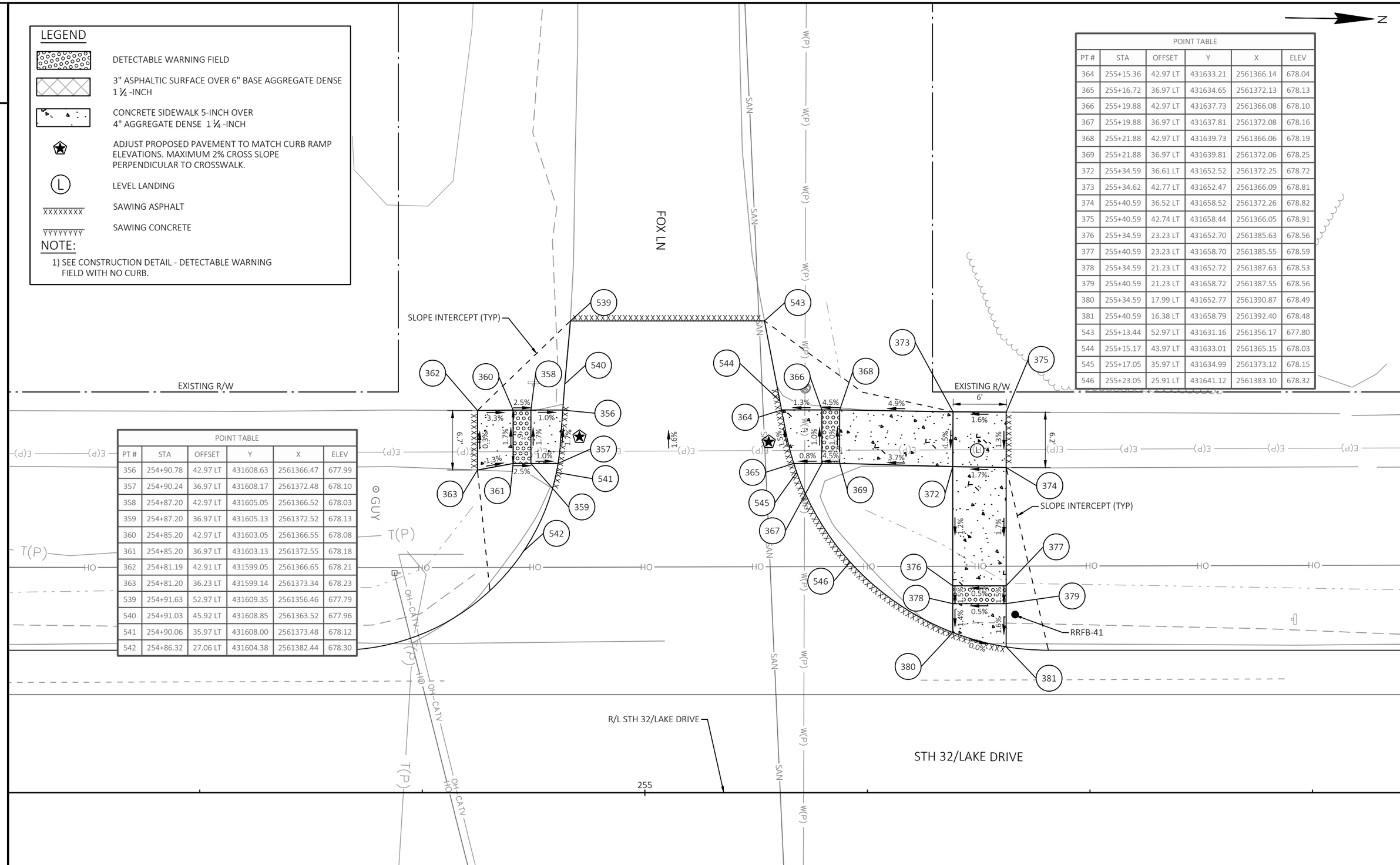
2

LEGEND

- DETECTABLE WARNING FIELD
- 3" ASPHALTIC SURFACE OVER 6" BASE AGGREGATE DENSE 1 ¼ -INCH
- CONCRETE SIDEWALK 5-INCH OVER 4" AGGREGATE DENSE 1 ¼ -INCH
- ADJUST PROPOSED PAVEMENT TO MATCH CURB RAMP ELEVATIONS. MAXIMUM 2% CROSS SLOPE PERPENDICULAR TO CROSSWALK.
- (L) LEVEL LANDING
- XXXXXXXX SAWING ASPHALT
- YYYYYYYY SAWING CONCRETE

NOTE:

1) SEE CONSTRUCTION DETAIL - DETECTABLE WARNING FIELD WITH NO CURB.



POINT TABLE

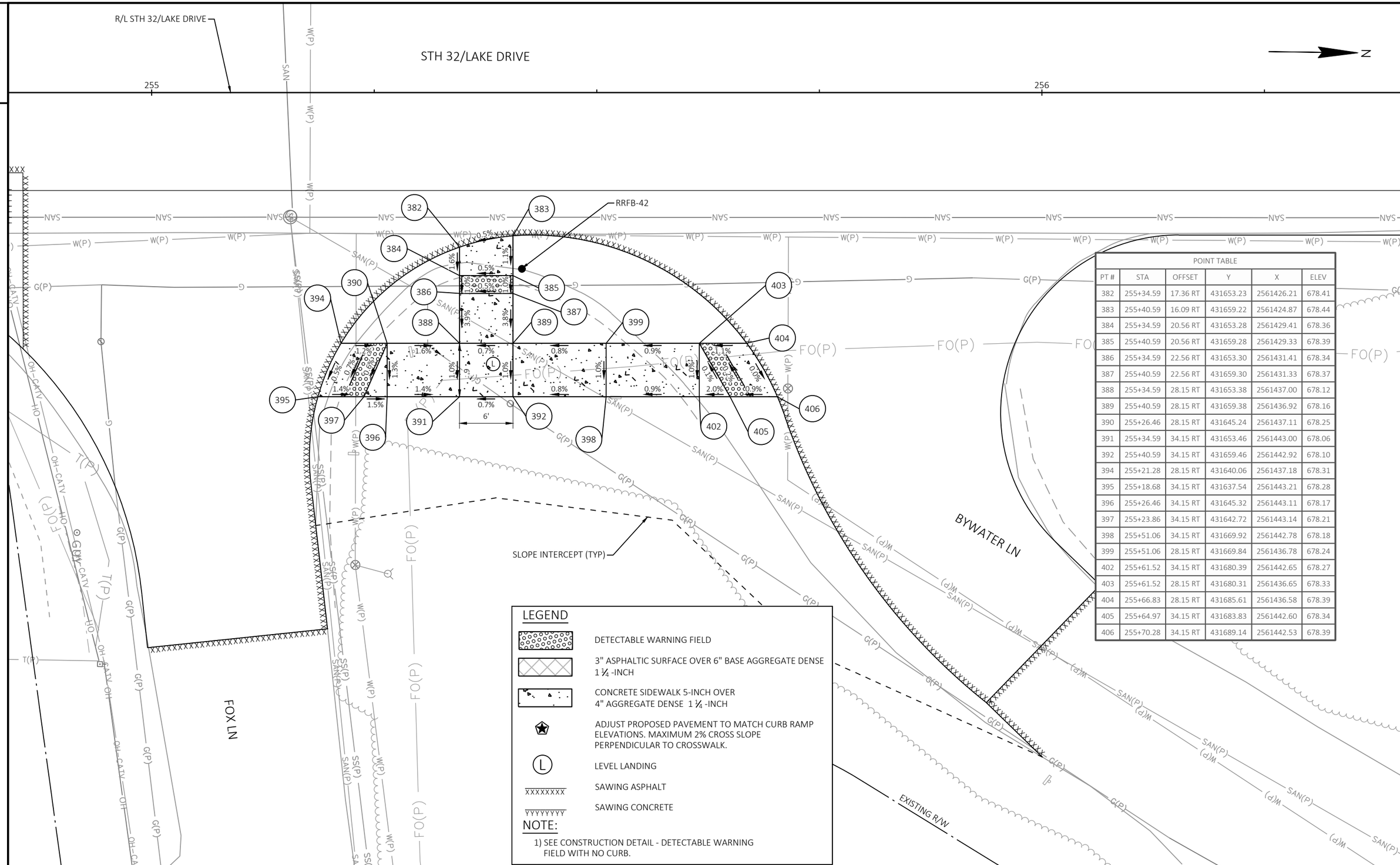
PT #	STA	OFFSET	Y	X	ELEV
356	254+90.78	42.97 LT	431608.63	2561366.47	677.99
357	254+90.24	36.97 LT	431608.17	2561372.48	678.10
358	254+87.20	42.97 LT	431605.05	2561366.52	678.03
359	254+87.20	36.97 LT	431605.13	2561372.52	678.13
360	254+85.20	42.97 LT	431603.05	2561366.55	678.08
361	254+85.20	36.97 LT	431603.13	2561372.55	678.18
362	254+81.19	42.91 LT	431599.05	2561366.65	678.21
363	254+81.20	36.23 LT	431599.14	2561373.34	678.23
539	254+91.63	52.97 LT	431609.35	2561356.46	677.79
540	254+91.03	45.92 LT	431608.85	2561363.52	677.96
541	254+90.06	35.97 LT	431608.00	2561373.48	678.12
542	254+86.32	27.06 LT	431604.38	2561382.44	678.30

POINT TABLE

PT #	STA	OFFSET	Y	X	ELEV
364	255+15.36	42.97 LT	431633.21	2561366.14	678.04
365	255+16.72	36.97 LT	431634.65	2561372.13	678.13
366	255+19.88	42.97 LT	431637.73	2561366.08	678.10
367	255+19.88	36.97 LT	431637.81	2561372.08	678.16
368	255+21.88	42.97 LT	431639.73	2561366.06	678.19
369	255+21.88	36.97 LT	431639.81	2561372.06	678.25
372	255+34.59	36.61 LT	431652.52	2561372.25	678.72
373	255+34.62	42.77 LT	431652.47	2561366.09	678.81
374	255+40.59	36.52 LT	431658.52	2561372.26	678.82
375	255+40.59	42.74 LT	431658.44	2561366.05	678.91
376	255+34.59	23.23 LT	431652.70	2561385.63	678.56
377	255+40.59	23.23 LT	431658.70	2561385.55	678.59
378	255+34.59	21.23 LT	431652.72	2561387.63	678.53
379	255+40.59	21.23 LT	431658.72	2561387.55	678.56
380	255+34.59	17.99 LT	431652.77	2561390.87	678.49
381	255+40.59	16.38 LT	431658.79	2561392.40	678.48
543	255+13.44	52.97 LT	431631.16	2561356.17	677.80
544	255+15.17	43.97 LT	431633.01	2561365.15	678.03
545	255+17.05	35.97 LT	431634.99	2561373.12	678.15
546	255+23.05	25.91 LT	431641.12	2561383.10	678.32

2

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 91	E



POINT TABLE

PT #	STA	OFFSET	Y	X	ELEV
382	255+34.59	17.36 RT	431653.23	2561426.21	678.41
383	255+40.59	16.09 RT	431659.22	2561424.87	678.44
384	255+34.59	20.56 RT	431653.28	2561429.41	678.36
385	255+40.59	20.56 RT	431659.28	2561429.33	678.39
386	255+34.59	22.56 RT	431653.30	2561431.41	678.34
387	255+40.59	22.56 RT	431659.30	2561431.33	678.37
388	255+34.59	28.15 RT	431653.38	2561437.00	678.12
389	255+40.59	28.15 RT	431659.38	2561436.92	678.16
390	255+26.46	28.15 RT	431645.24	2561437.11	678.25
391	255+34.59	34.15 RT	431653.46	2561443.00	678.06
392	255+40.59	34.15 RT	431659.46	2561442.92	678.10
394	255+21.28	28.15 RT	431640.06	2561437.18	678.31
395	255+18.68	34.15 RT	431637.54	2561443.21	678.28
396	255+26.46	34.15 RT	431645.32	2561443.11	678.17
397	255+23.86	34.15 RT	431642.72	2561443.14	678.21
398	255+51.06	34.15 RT	431669.92	2561442.78	678.18
399	255+51.06	28.15 RT	431669.84	2561436.78	678.24
402	255+61.52	34.15 RT	431680.39	2561442.65	678.27
403	255+61.52	28.15 RT	431680.31	2561436.65	678.33
404	255+66.83	28.15 RT	431685.61	2561436.58	678.39
405	255+64.97	34.15 RT	431683.83	2561442.60	678.34
406	255+70.28	34.15 RT	431689.14	2561442.53	678.39

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 92	E

2

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
407	259+21.84	43.72 LT	432039.65	2561360.03	674.08
408	259+20.75	37.67 LT	432038.63	2561366.08	674.14
409	259+17.36	43.56 LT	432035.17	2561360.25	674.16
410	259+17.58	37.56 LT	432035.46	2561366.24	674.20
411	259+15.36	43.48 LT	432033.17	2561360.35	674.22
412	259+15.58	37.49 LT	432033.46	2561366.34	674.26
413	259+05.34	43.36 LT	432023.15	2561360.61	674.53
414	259+05.27	37.48 LT	432023.16	2561366.48	674.57
589	259+22.09	49.85 LT	432039.82	2561353.89	674.04

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
415	259+45.94	44.58 LT	432063.73	2561358.84	673.65
416	259+47.26	38.63 LT	432065.12	2561364.78	673.70
417	259+50.11	44.73 LT	432067.90	2561358.64	673.58
418	259+50.33	38.74 LT	432068.20	2561364.63	673.63
419	259+52.11	44.81 LT	432069.90	2561358.54	673.56
420	259+52.33	38.81 LT	432070.19	2561364.53	673.60
421	259+63.56	44.67 LT	432081.35	2561358.53	673.48
422	259+63.60	37.92 LT	432081.48	2561365.27	673.44
547	259+45.72	45.58 LT	432063.50	2561357.85	673.64
548	259+47.52	37.64 LT	432065.41	2561365.77	673.70
549	259+51.15	29.71 LT	432069.13	2561373.65	673.74
550	259+44.91	49.55 LT	432062.63	2561353.89	673.62

N

2

CHURCHILL LN

TLE

EXISTING R/W

EXISTING R/W

SLOPE INTERCEPT (TYP)

SLOPE INTERCEPT (TYP)

STH 32/LAKE DRIVE

R/L STH 32/LAKE DRIVE

259

LEGEND

- DETECTABLE WARNING FIELD
- 3" ASPHALTIC SURFACE OVER 6" BASE AGGREGATE DENSE 1 ¼ -INCH
- CONCRETE SIDEWALK 5-INCH OVER 4" AGGREGATE DENSE 1 ¼ -INCH
- ADJUST PROPOSED PAVEMENT TO MATCH CURB RAMP ELEVATIONS. MAXIMUM 2% CROSS SLOPE PERPENDICULAR TO CROSSWALK.
- LEVEL LANDING
- SAWING ASPHALT
- SAWING CONCRETE

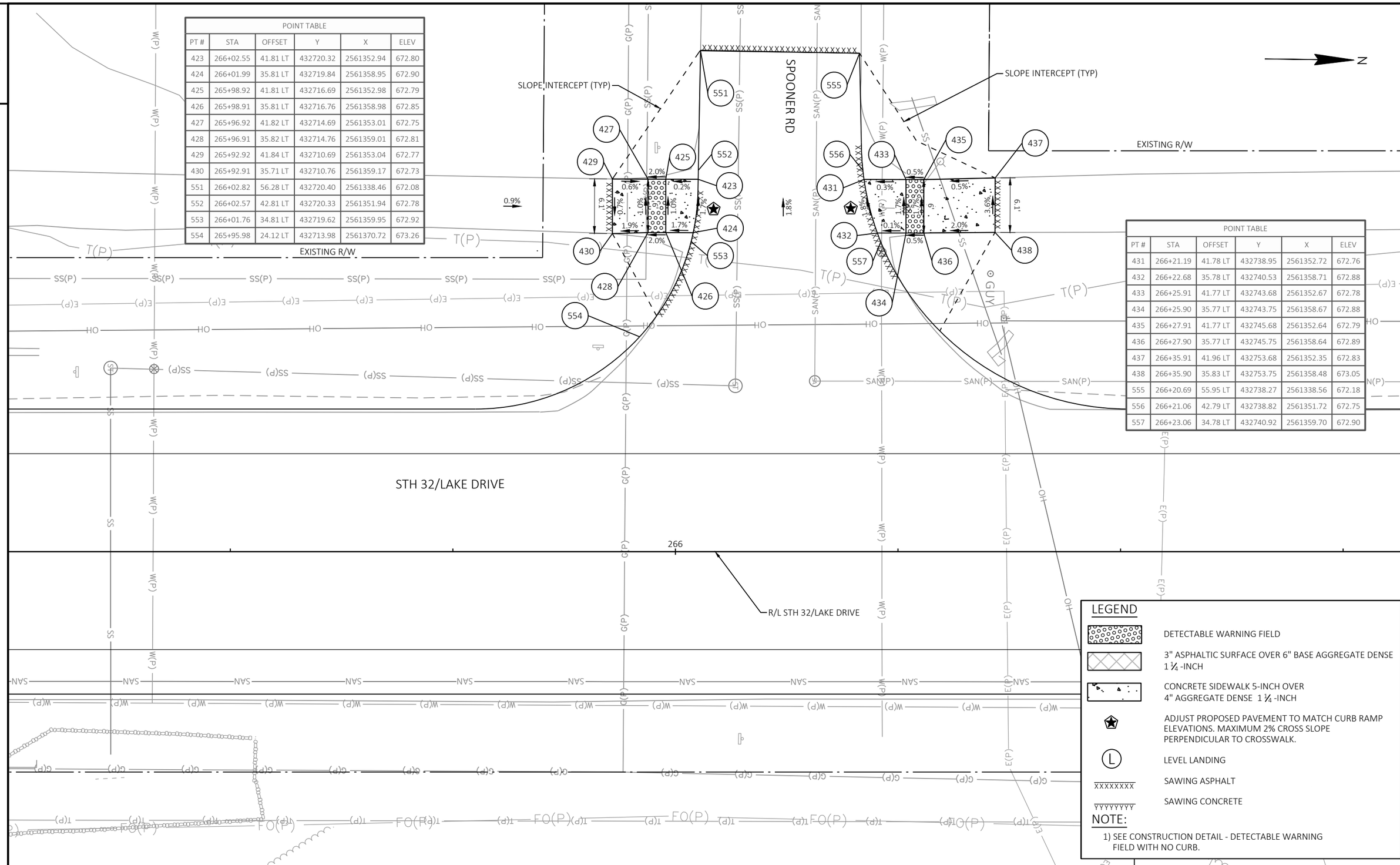
NOTE:

1) SEE CONSTRUCTION DETAIL - DETECTABLE WARNING FIELD WITH NO CURB.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 93	E

2

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
423	266+02.55	41.81 LT	432720.32	2561352.94	672.80
424	266+01.99	35.81 LT	432719.84	2561358.95	672.90
425	265+98.92	41.81 LT	432716.69	2561352.98	672.79
426	265+98.91	35.81 LT	432716.76	2561358.98	672.85
427	265+96.92	41.82 LT	432714.69	2561353.01	672.75
428	265+96.91	35.82 LT	432714.76	2561359.01	672.81
429	265+92.92	41.84 LT	432710.69	2561353.04	672.77
430	265+92.91	35.71 LT	432710.76	2561359.17	672.73
551	266+02.82	56.28 LT	432720.40	2561338.46	672.08
552	266+02.57	42.81 LT	432720.33	2561351.94	672.78
553	266+01.76	34.81 LT	432719.62	2561359.95	672.92
554	265+95.98	24.12 LT	432713.98	2561370.72	673.26



POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
431	266+21.19	41.78 LT	432738.95	2561352.72	672.76
432	266+22.68	35.78 LT	432740.53	2561358.71	672.88
433	266+25.91	41.77 LT	432743.68	2561352.67	672.78
434	266+25.90	35.77 LT	432743.75	2561358.67	672.88
435	266+27.91	41.77 LT	432745.68	2561352.64	672.79
436	266+27.90	35.77 LT	432745.75	2561358.64	672.89
437	266+35.91	41.96 LT	432753.68	2561352.35	672.83
438	266+35.90	35.83 LT	432753.75	2561358.48	673.05
555	266+20.69	55.95 LT	432738.27	2561338.56	672.18
556	266+21.06	42.79 LT	432738.82	2561351.72	672.75
557	266+23.06	34.78 LT	432740.92	2561359.70	672.90

LEGEND

- DETECTABLE WARNING FIELD
- 3" ASPHALTIC SURFACE OVER 6" BASE AGGREGATE DENSE 1 ¼ -INCH
- CONCRETE SIDEWALK 5-INCH OVER 4" AGGREGATE DENSE 1 ¼ -INCH
- ADJUST PROPOSED PAVEMENT TO MATCH CURB RAMP ELEVATIONS. MAXIMUM 2% CROSS SLOPE PERPENDICULAR TO CROSSWALK.
- (L) LEVEL LANDING
- XXXXXXXX SAWING ASPHALT
- YYYYYYYY SAWING CONCRETE

NOTE:

1) SEE CONSTRUCTION DETAIL - DETECTABLE WARNING FIELD WITH NO CURB.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 94	E

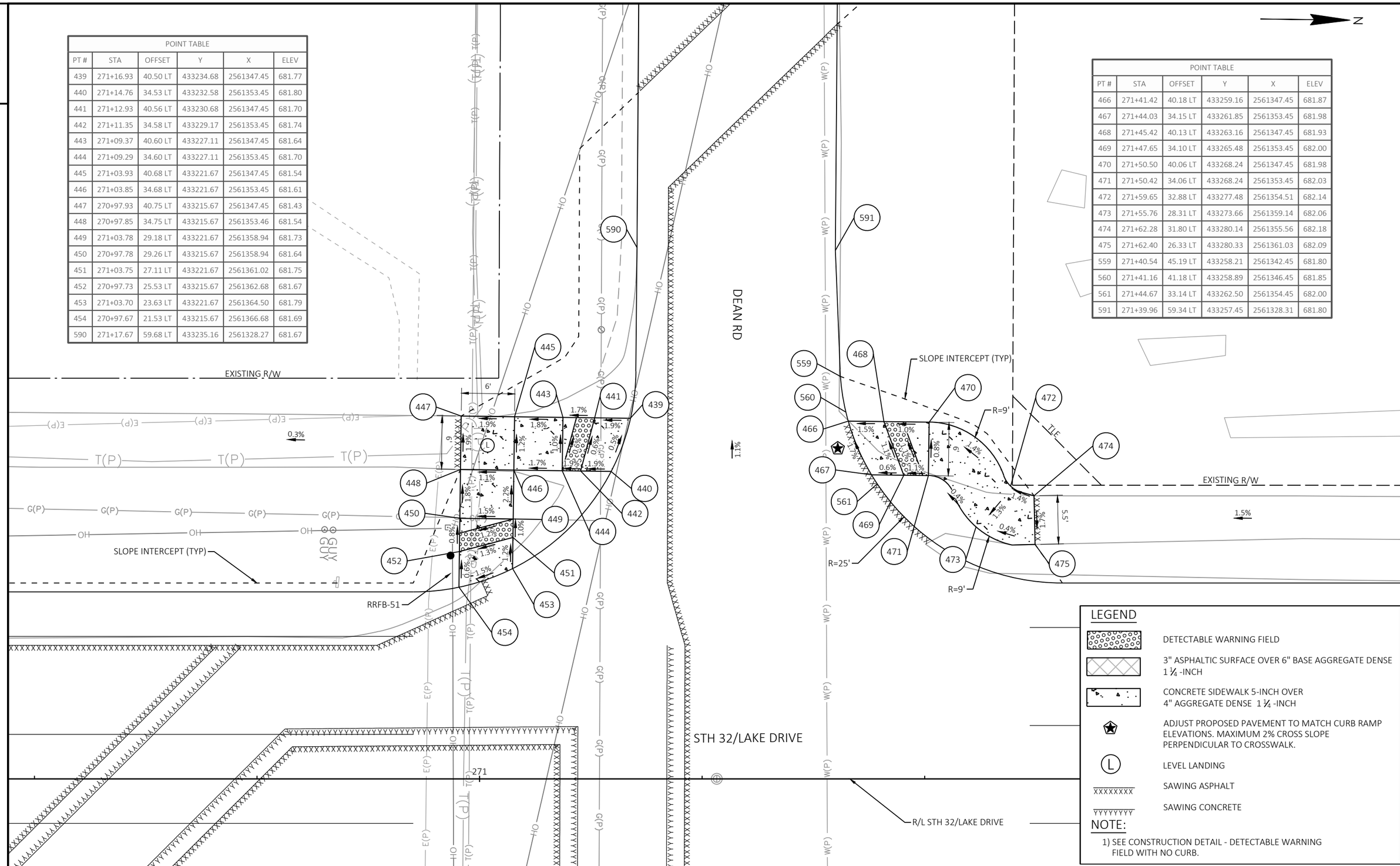
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021299-CR.DWG
LAYOUT NAME - CR23
PLOT DATE : 10/14/2024 6:34 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

2

POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
439	271+16.93	40.50 LT	433234.68	2561347.45	681.77
440	271+14.76	34.53 LT	433232.58	2561353.45	681.80
441	271+12.93	40.56 LT	433230.68	2561347.45	681.70
442	271+11.35	34.58 LT	433229.17	2561353.45	681.74
443	271+09.37	40.60 LT	433227.11	2561347.45	681.64
444	271+09.29	34.60 LT	433227.11	2561353.45	681.70
445	271+03.93	40.68 LT	433221.67	2561347.45	681.54
446	271+03.85	34.68 LT	433221.67	2561353.45	681.61
447	270+97.93	40.75 LT	433215.67	2561347.45	681.43
448	270+97.85	34.75 LT	433215.67	2561353.46	681.54
449	271+03.78	29.18 LT	433221.67	2561358.94	681.73
450	270+97.78	29.26 LT	433215.67	2561358.94	681.64
451	271+03.75	27.11 LT	433221.67	2561361.02	681.75
452	270+97.73	25.53 LT	433215.67	2561362.68	681.67
453	271+03.70	23.63 LT	433221.67	2561364.50	681.79
454	270+97.67	21.53 LT	433215.67	2561366.68	681.69
590	271+17.67	59.68 LT	433235.16	2561328.27	681.67

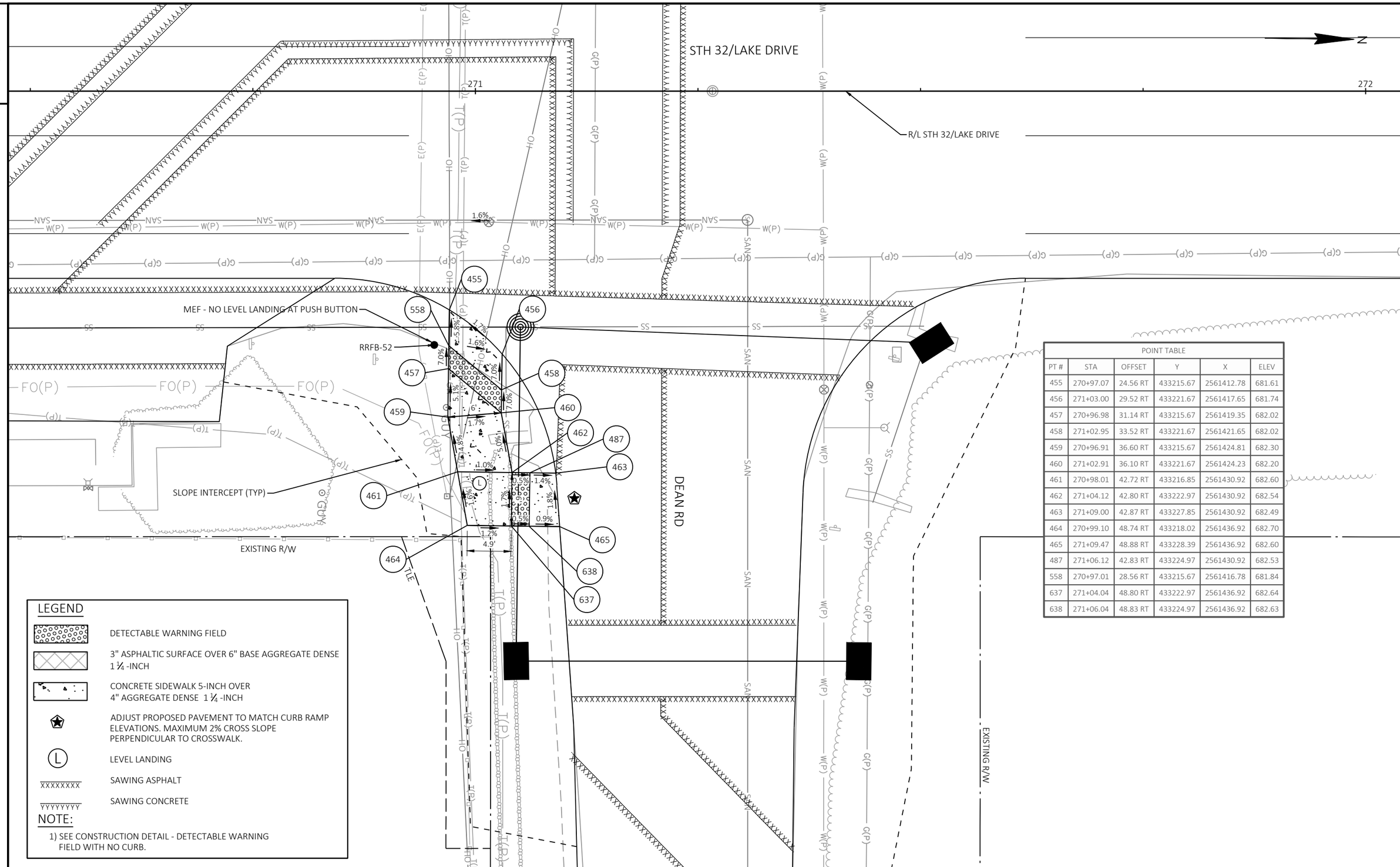
POINT TABLE					
PT #	STA	OFFSET	Y	X	ELEV
466	271+41.42	40.18 LT	433259.16	2561347.45	681.87
467	271+44.03	34.15 LT	433261.85	2561353.45	681.98
468	271+45.42	40.13 LT	433263.16	2561347.45	681.93
469	271+47.65	34.10 LT	433265.48	2561353.45	682.00
470	271+50.50	40.06 LT	433268.24	2561347.45	681.98
471	271+50.42	34.06 LT	433268.24	2561353.45	682.03
472	271+59.65	32.88 LT	433277.48	2561354.51	682.14
473	271+55.76	28.31 LT	433273.66	2561359.14	682.06
474	271+62.28	31.80 LT	433280.14	2561355.56	682.18
475	271+62.40	26.33 LT	433280.33	2561361.03	682.09
559	271+40.54	45.19 LT	433258.21	2561342.45	681.80
560	271+41.16	41.18 LT	433258.89	2561346.45	681.85
561	271+44.67	33.14 LT	433262.50	2561354.45	682.00
591	271+39.96	59.34 LT	433257.45	2561328.31	681.80



PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 95	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\021299-CR.DWG
LAYOUT NAME - CR24
PLOT DATE : 10/14/2024 6:34 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:10 FT

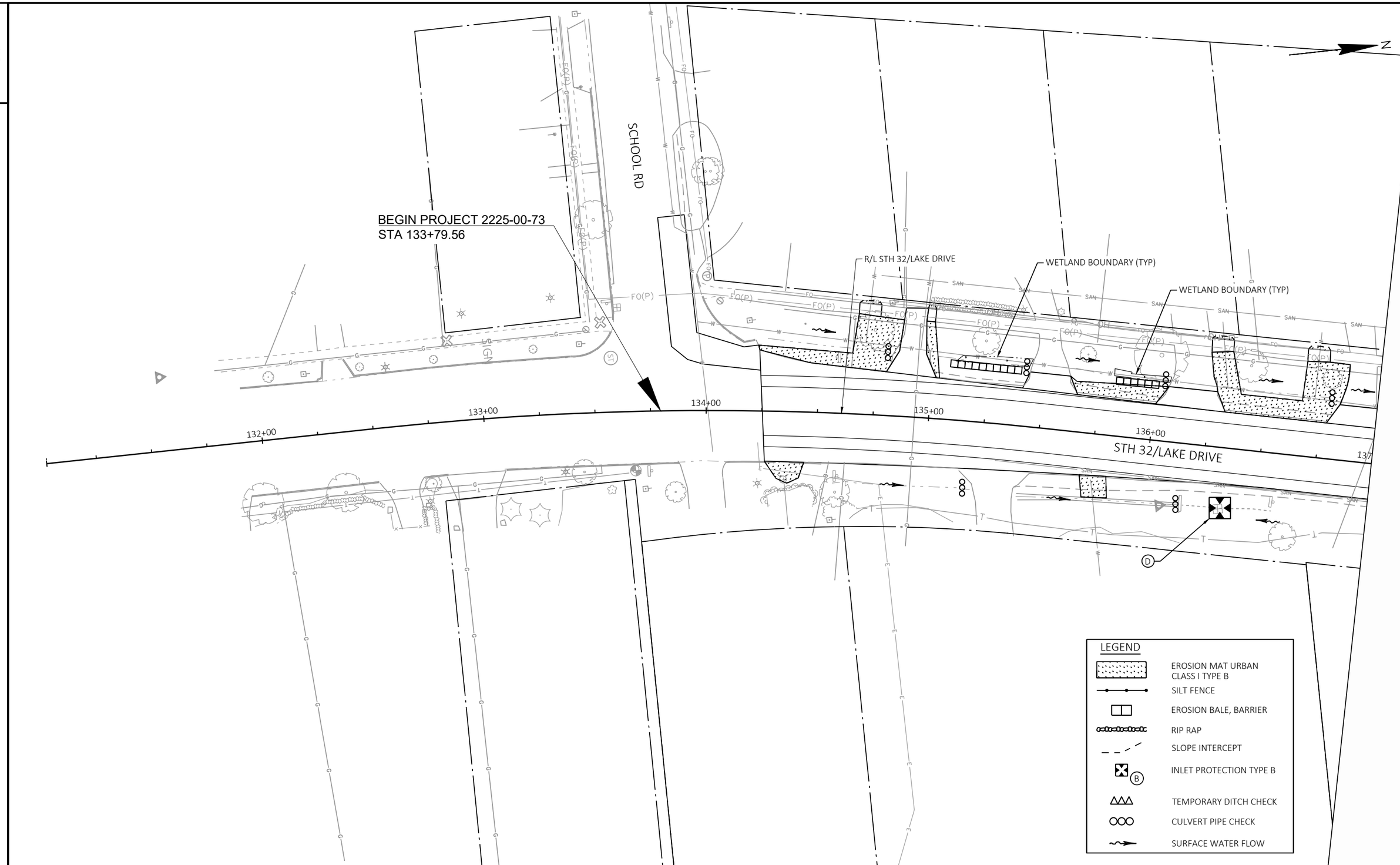
WISDOT/CADDS SHEET 42



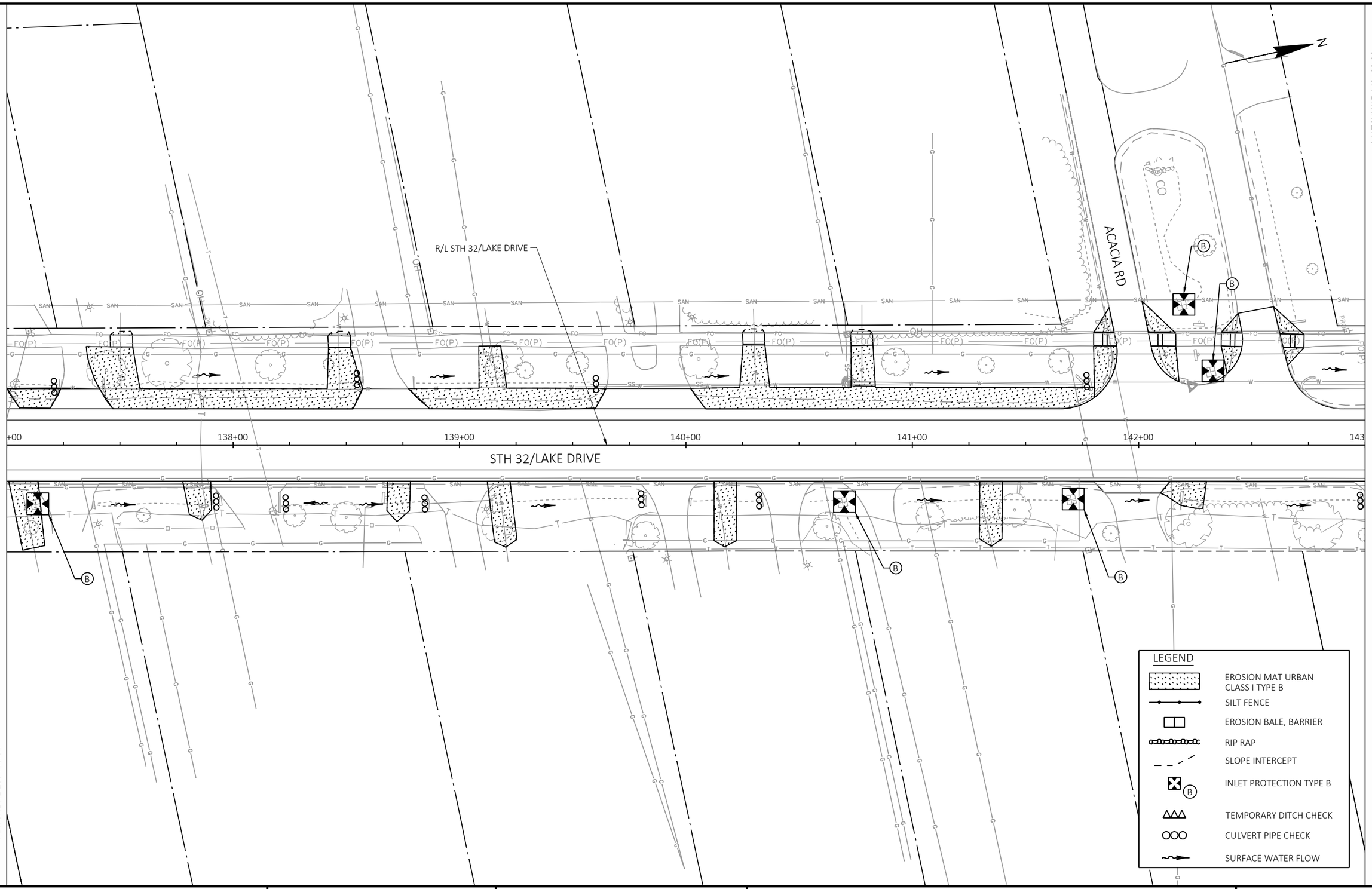
POINT TABLE

PT #	STA	OFFSET	Y	X	ELEV
455	270+97.07	24.56 RT	433215.67	2561412.78	681.61
456	271+03.00	29.52 RT	433221.67	2561417.65	681.74
457	270+96.98	31.14 RT	433215.67	2561419.35	682.02
458	271+02.95	33.52 RT	433221.67	2561421.65	682.02
459	270+96.91	36.60 RT	433215.67	2561424.81	682.30
460	271+02.91	36.10 RT	433221.67	2561424.23	682.20
461	270+98.01	42.72 RT	433216.85	2561430.92	682.60
462	271+04.12	42.80 RT	433222.97	2561430.92	682.54
463	271+09.00	42.87 RT	433227.85	2561430.92	682.49
464	270+99.10	48.74 RT	433218.02	2561436.92	682.70
465	271+09.47	48.88 RT	433228.39	2561436.92	682.60
487	271+06.12	42.83 RT	433224.97	2561430.92	682.53
558	270+97.01	28.56 RT	433215.67	2561416.78	681.84
637	271+04.04	48.80 RT	433222.97	2561436.92	682.64
638	271+06.04	48.83 RT	433224.97	2561436.92	682.63

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 96	E


BEGIN PROJECT 2225-00-73
STA 133+79.56
SCHOOL RD
R/L STH 32/LAKE DRIVE
WETLAND BOUNDARY (TYP)
WETLAND BOUNDARY (TYP)
132+00
133+00
134+00
135+00
136+00
137
STH 32/LAKE DRIVE
FO(P)
SAN
D
N
LEGEND
EROSION MAT URBAN CLASS I TYPE B
SILT FENCE
EROSION BALE, BARRIER
RIP RAP
SLOPE INTERCEPT
INLET PROTECTION TYPE B
TEMPORARY DITCH CHECK
CULVERT PIPE CHECK
SURFACE WATER FLOW

2

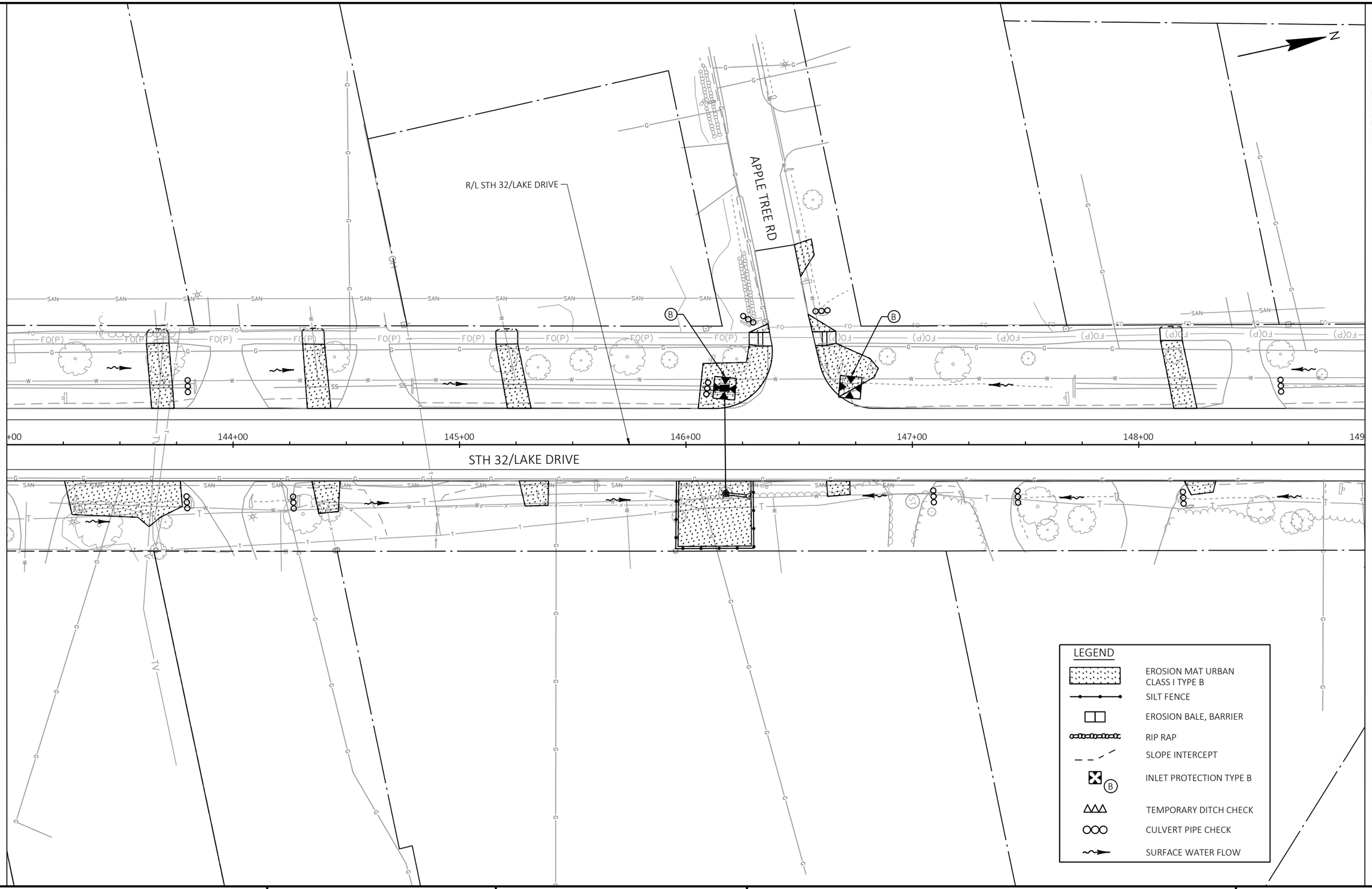


2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 98	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(2)
PLOT DATE : 10/14/2024 6:37 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



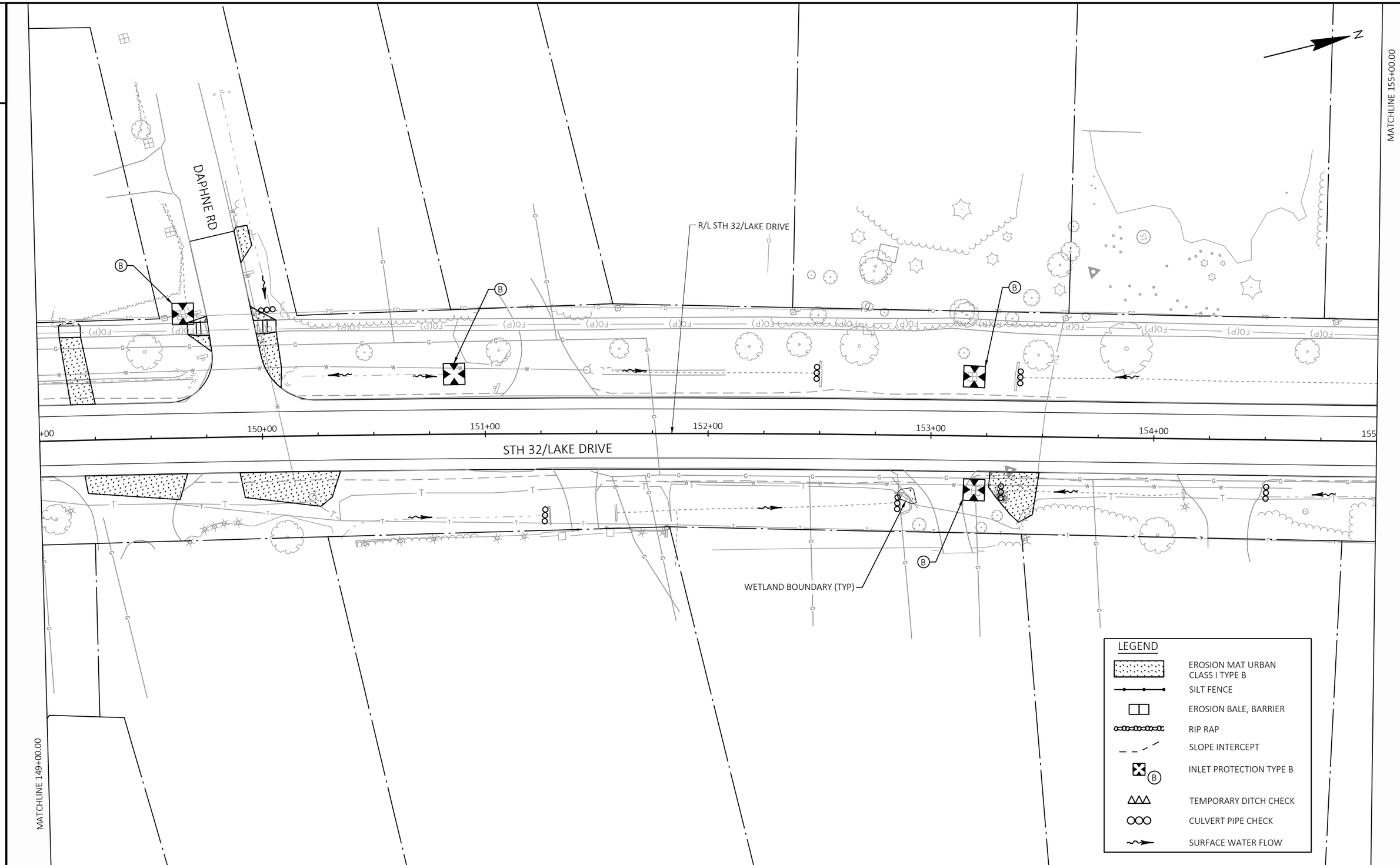
2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 99	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(3)
PLOT DATE : 10/14/2024 6:37 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

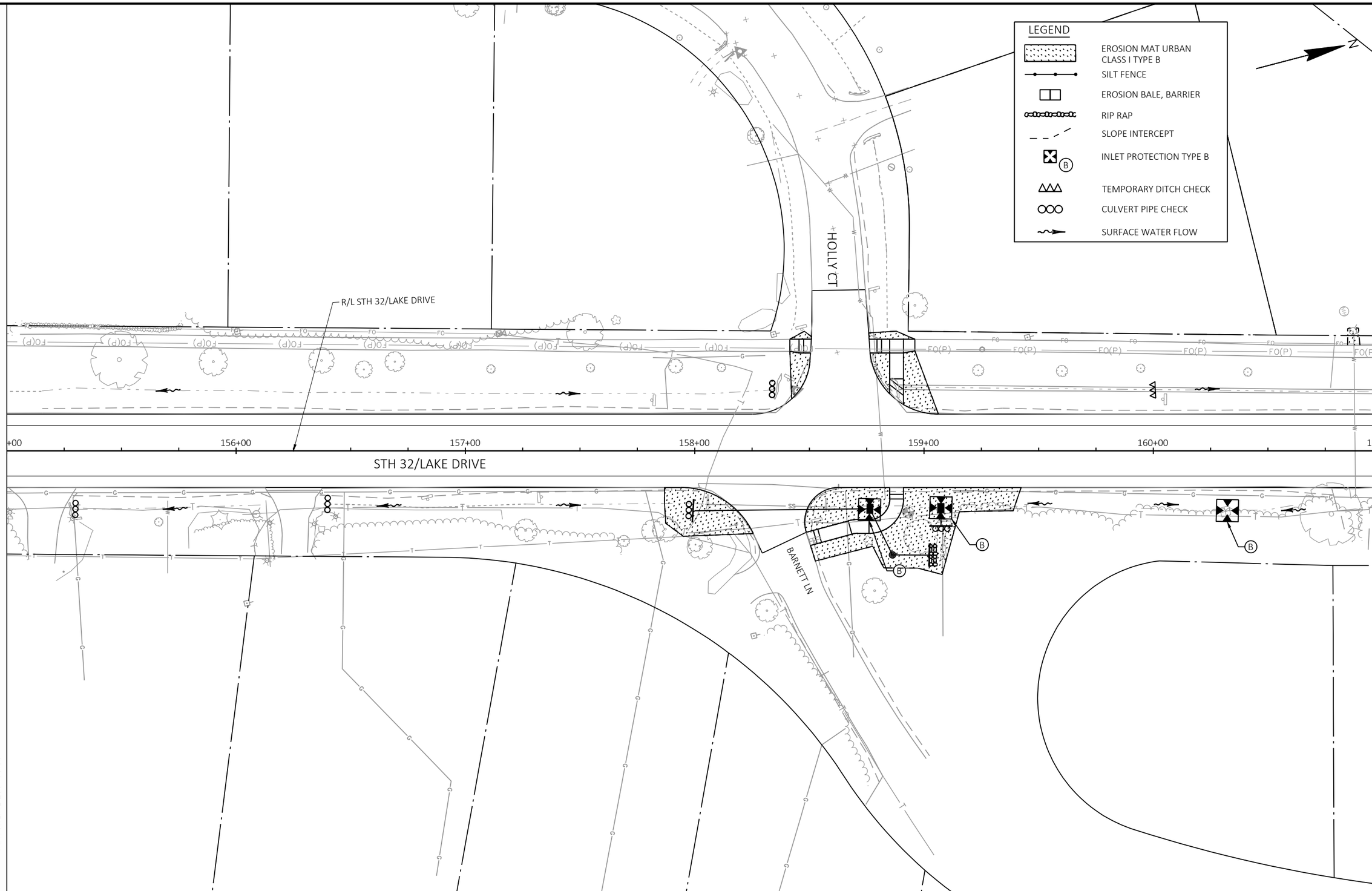


2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 100	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(4)
PLOT DATE : 10/14/2024 6:37 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

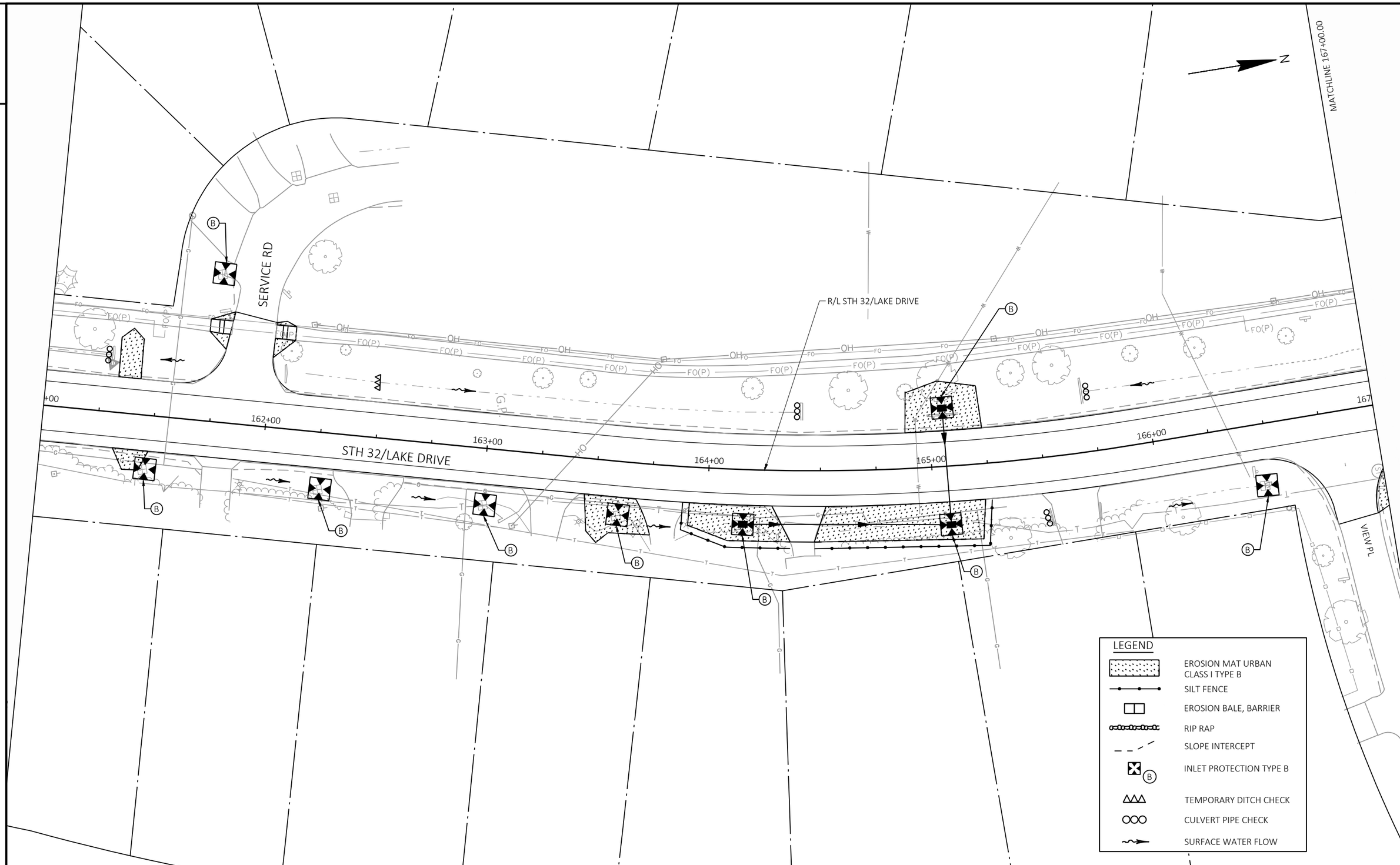


2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 101	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(5)
PLOT DATE : 10/14/2024 6:37 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

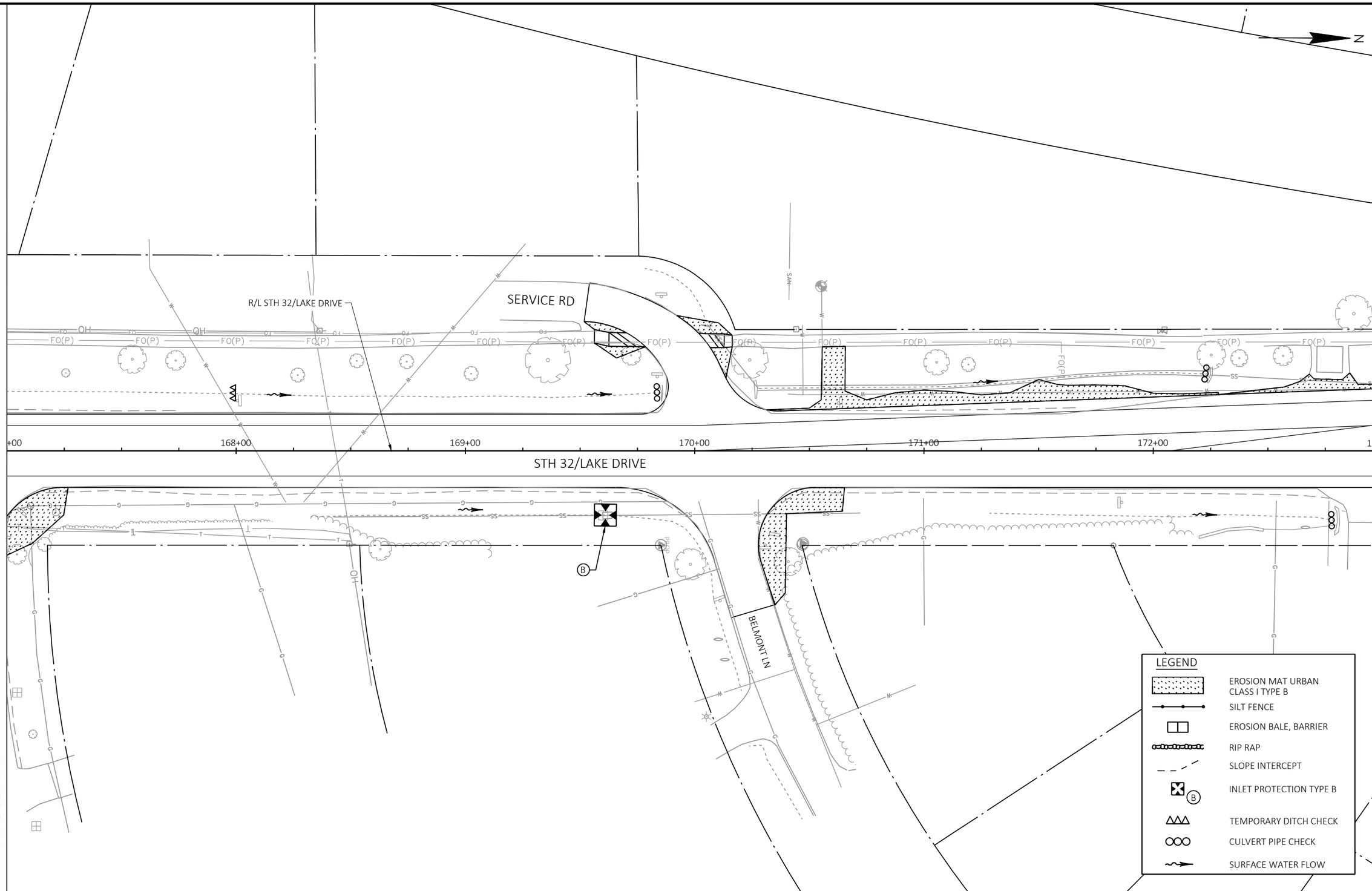
2



2

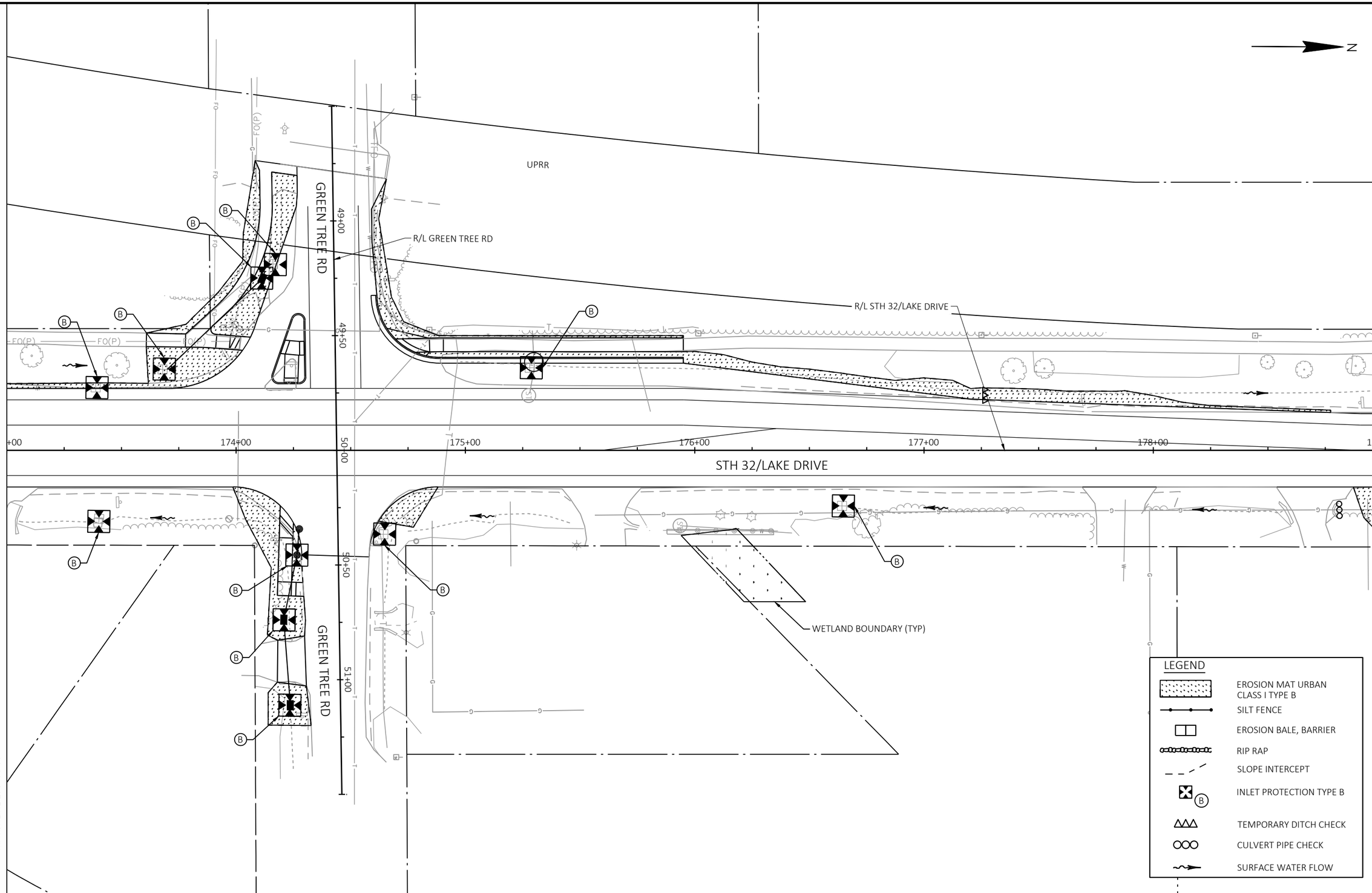
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 102	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(6)
PLOT DATE : 10/14/2024 6:37 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 103	E

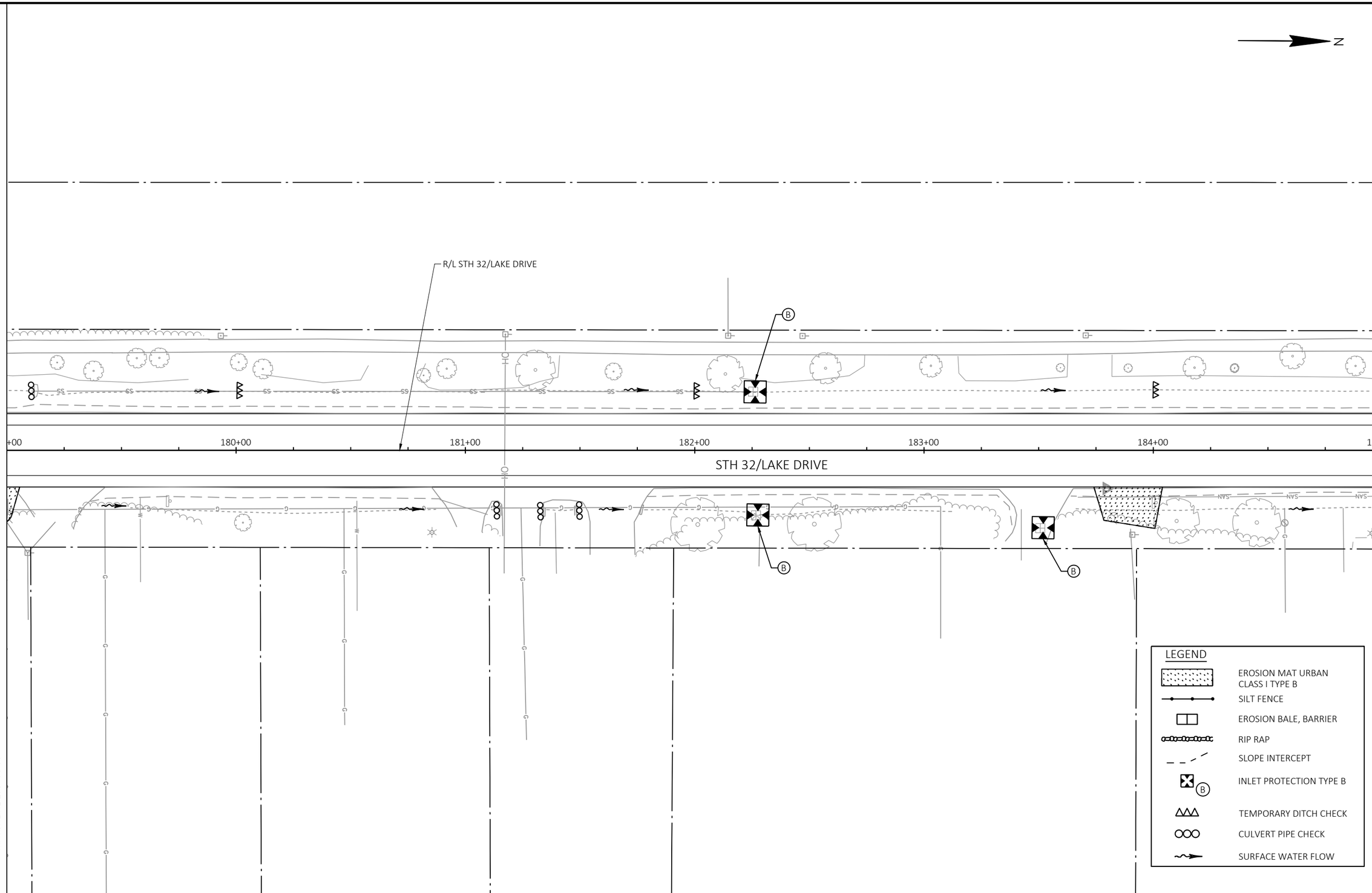
2



2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 104	E

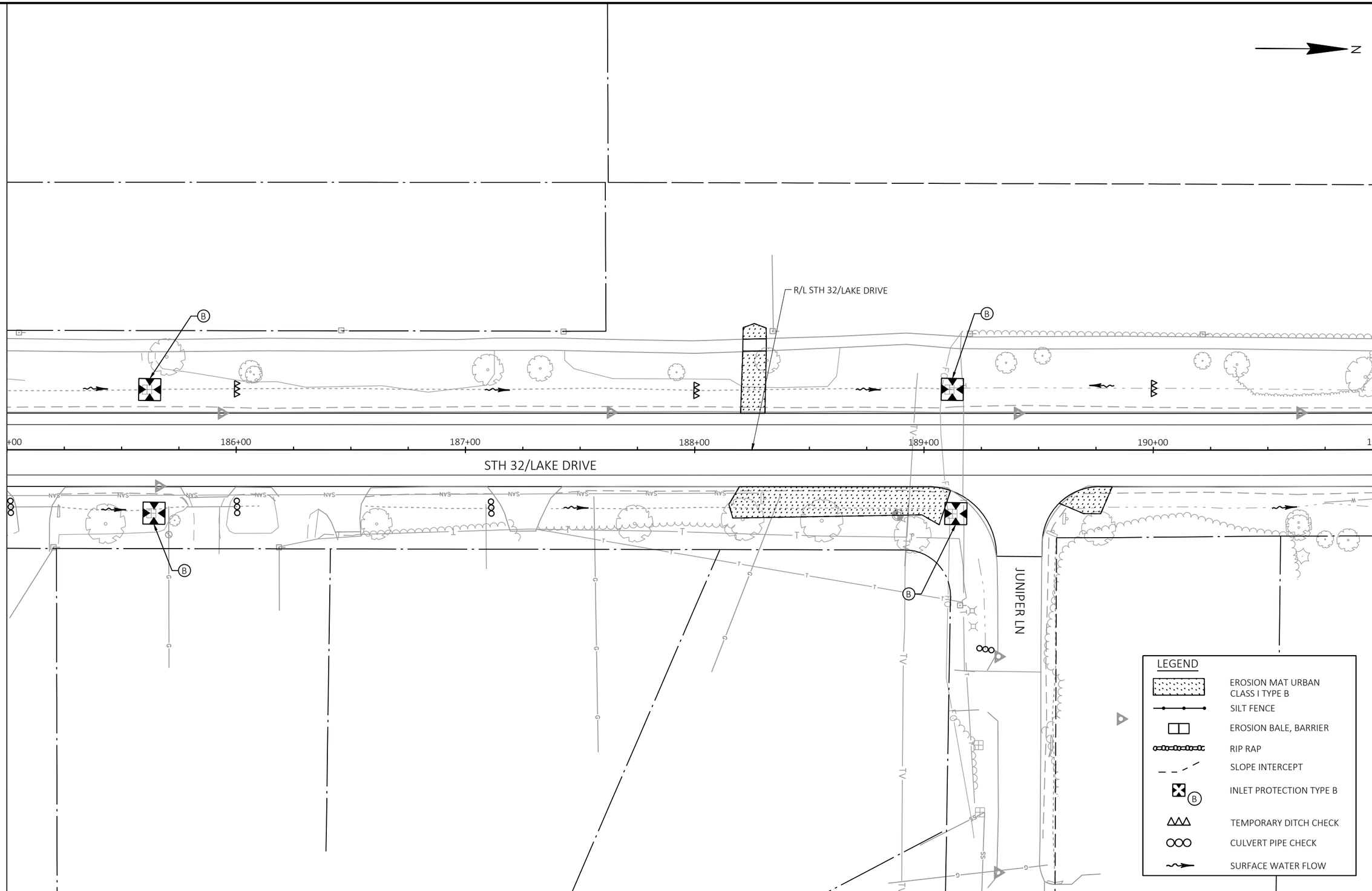
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(8)
PLOT DATE : 10/14/2024 6:38 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT



2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 105	E

2



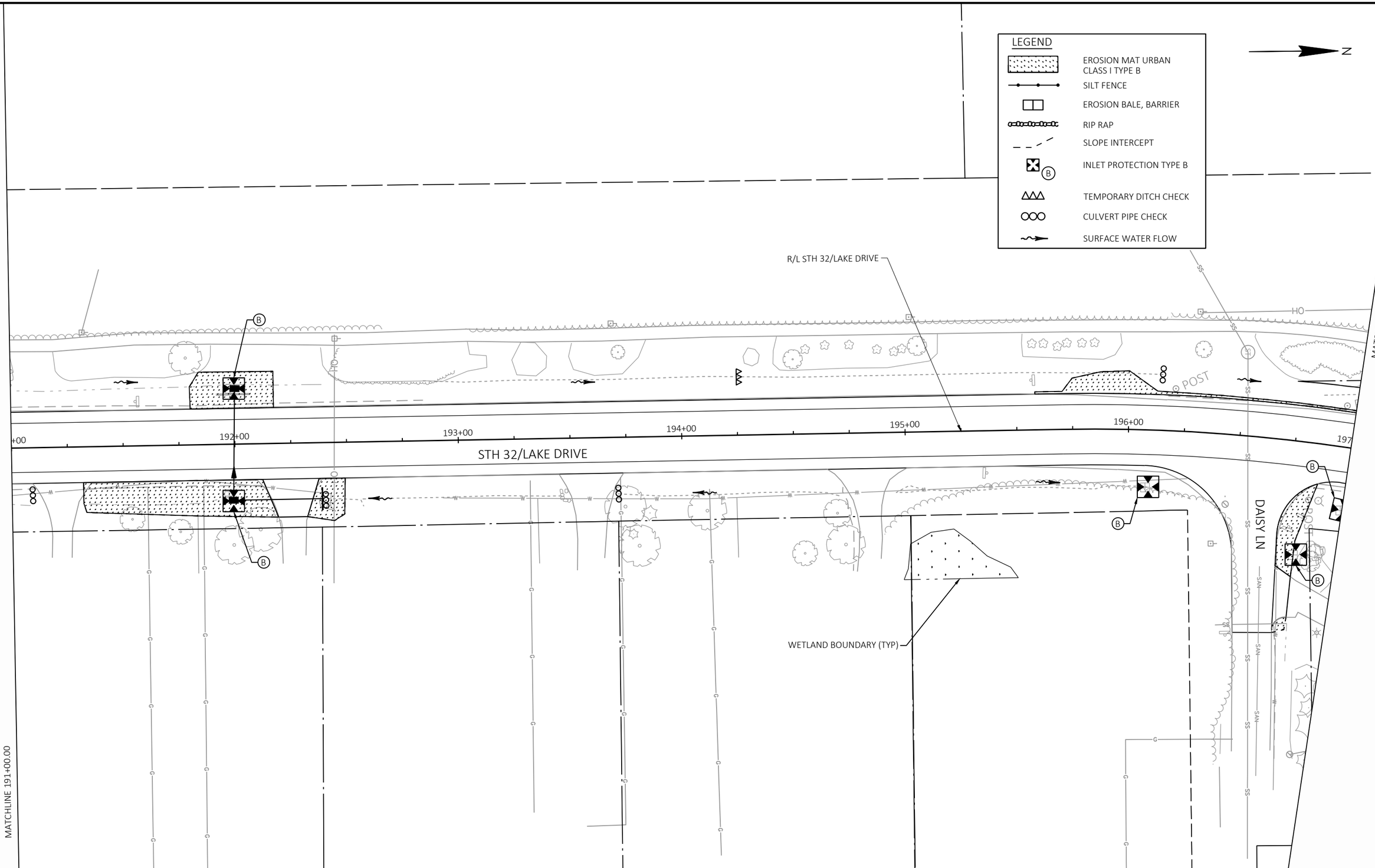
2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 106	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(10)
PLOT DATE : 10/14/2024 6:38 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

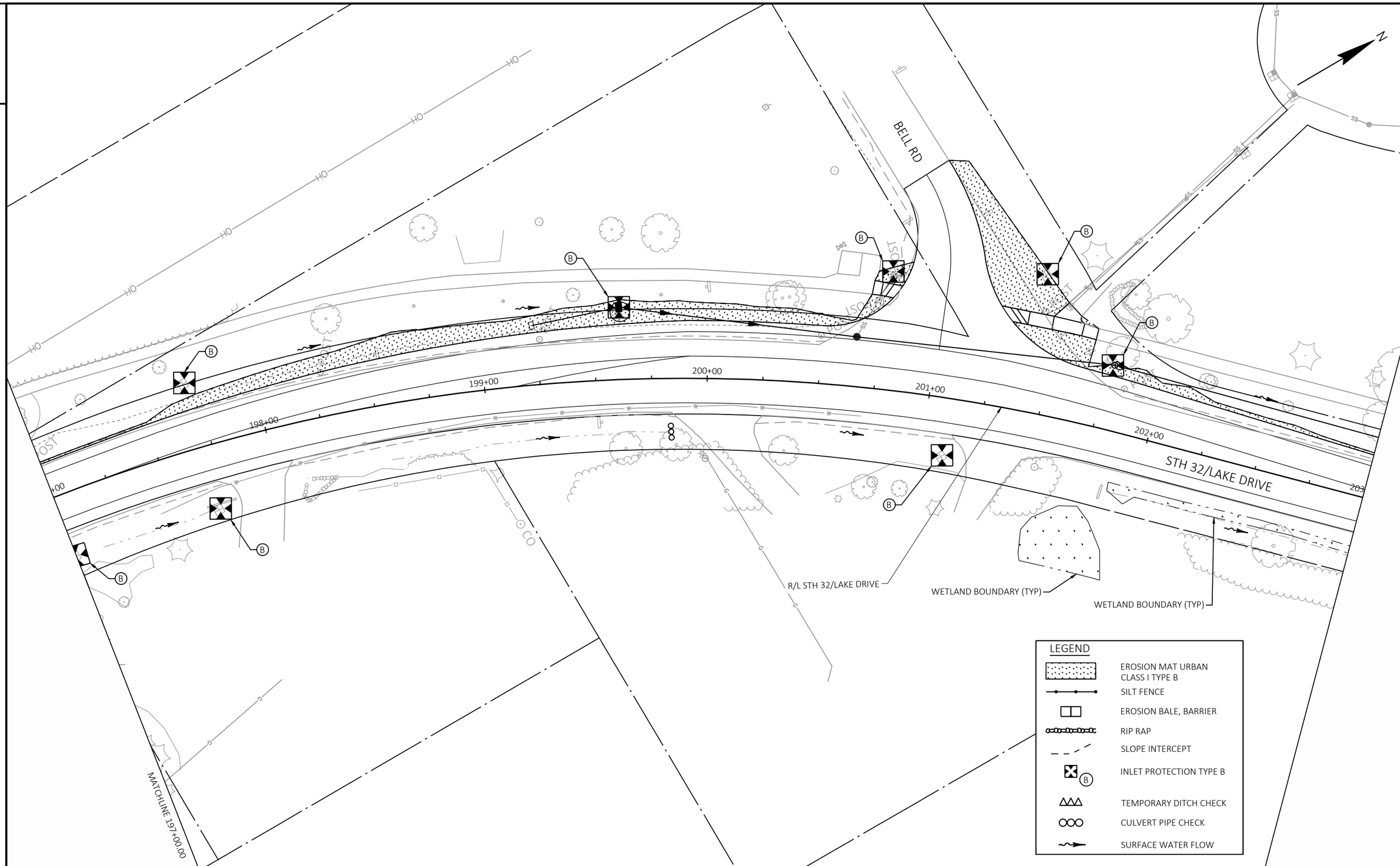


2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 107	E

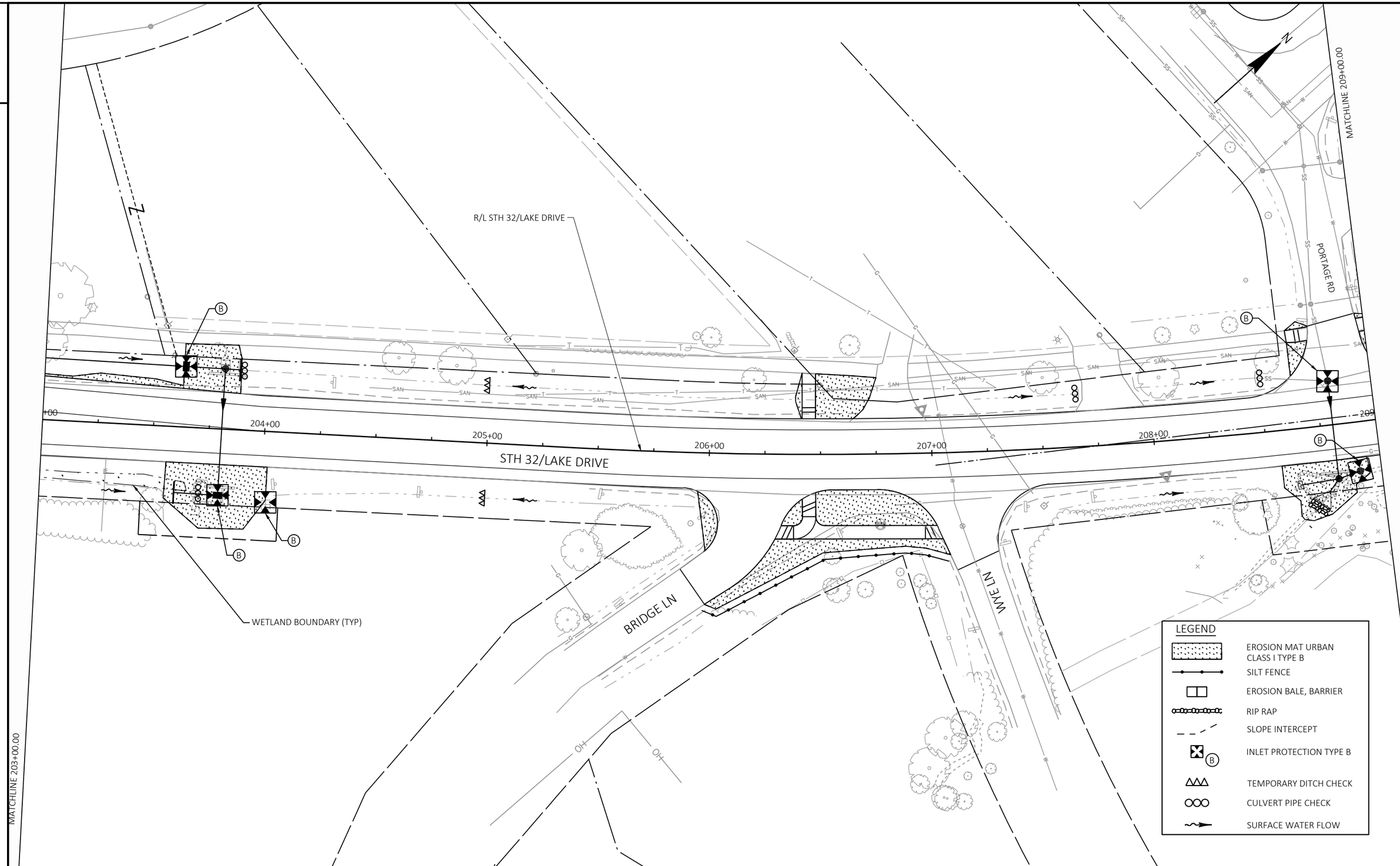
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(11)
PLOT DATE : 10/14/2024 6:38 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

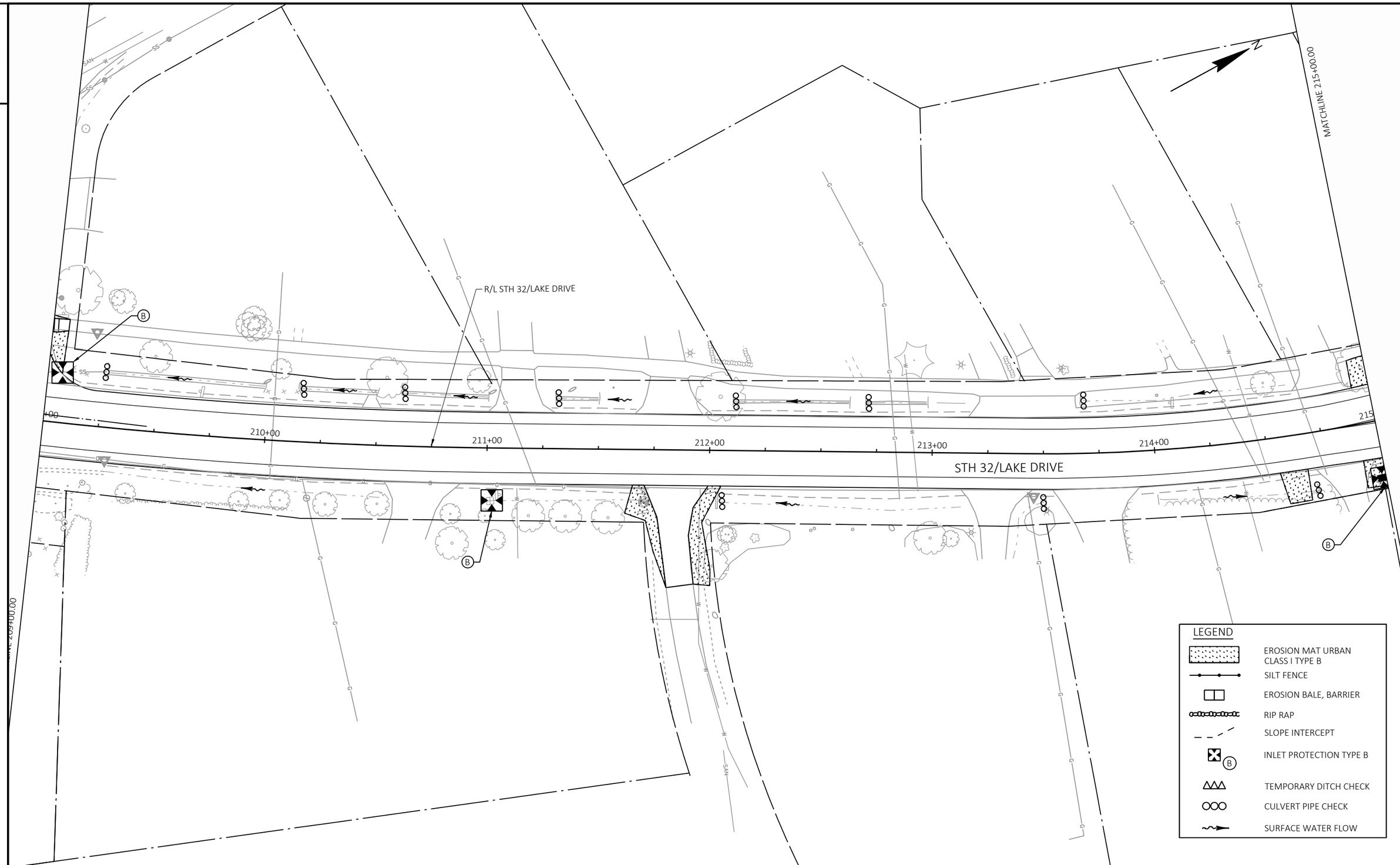


PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 108	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(12)
PLOT DATE : 10/14/2024 6:38 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT


R/L STH 32/LAKE DRIVE
STH 32/LAKE DRIVE
204+00
205+00
206+00
207+00
208+00
MATCHLINE 209+00.00
MATCHLINE 203+00.00
PORTAGE RD
BRIDGE LN
LWE LN
WETLAND BOUNDARY (TYP)
B
LEGEND
EROSION MAT URBAN CLASS I TYPE B
SILT FENCE
EROSION BALE, BARRIER
RIP RAP
SLOPE INTERCEPT
INLET PROTECTION TYPE B
TEMPORARY DITCH CHECK
CULVERT PIPE CHECK
SURFACE WATER FLOW

2



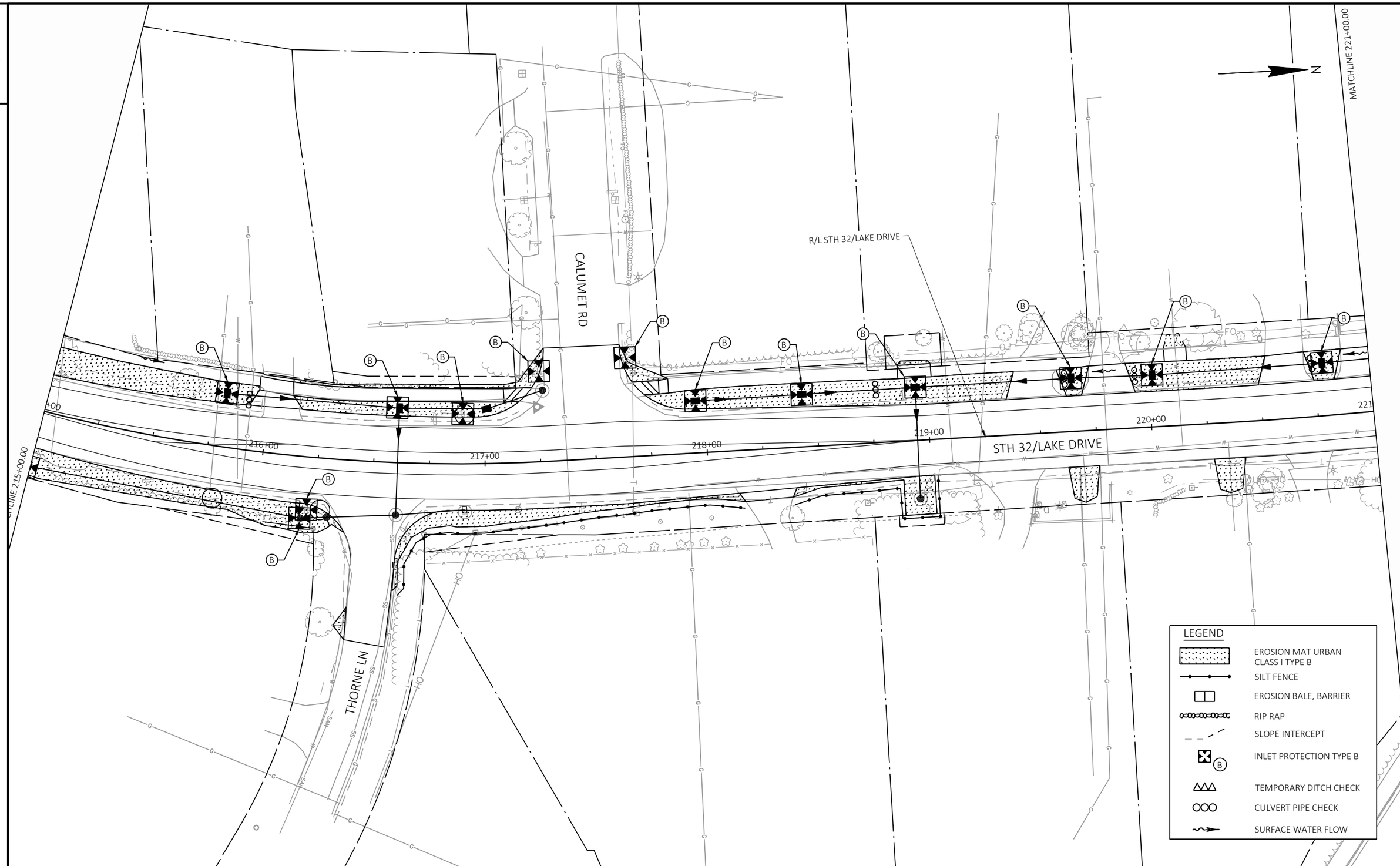
2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 110	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(14)
PLOT DATE : 10/15/2024 10:30 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

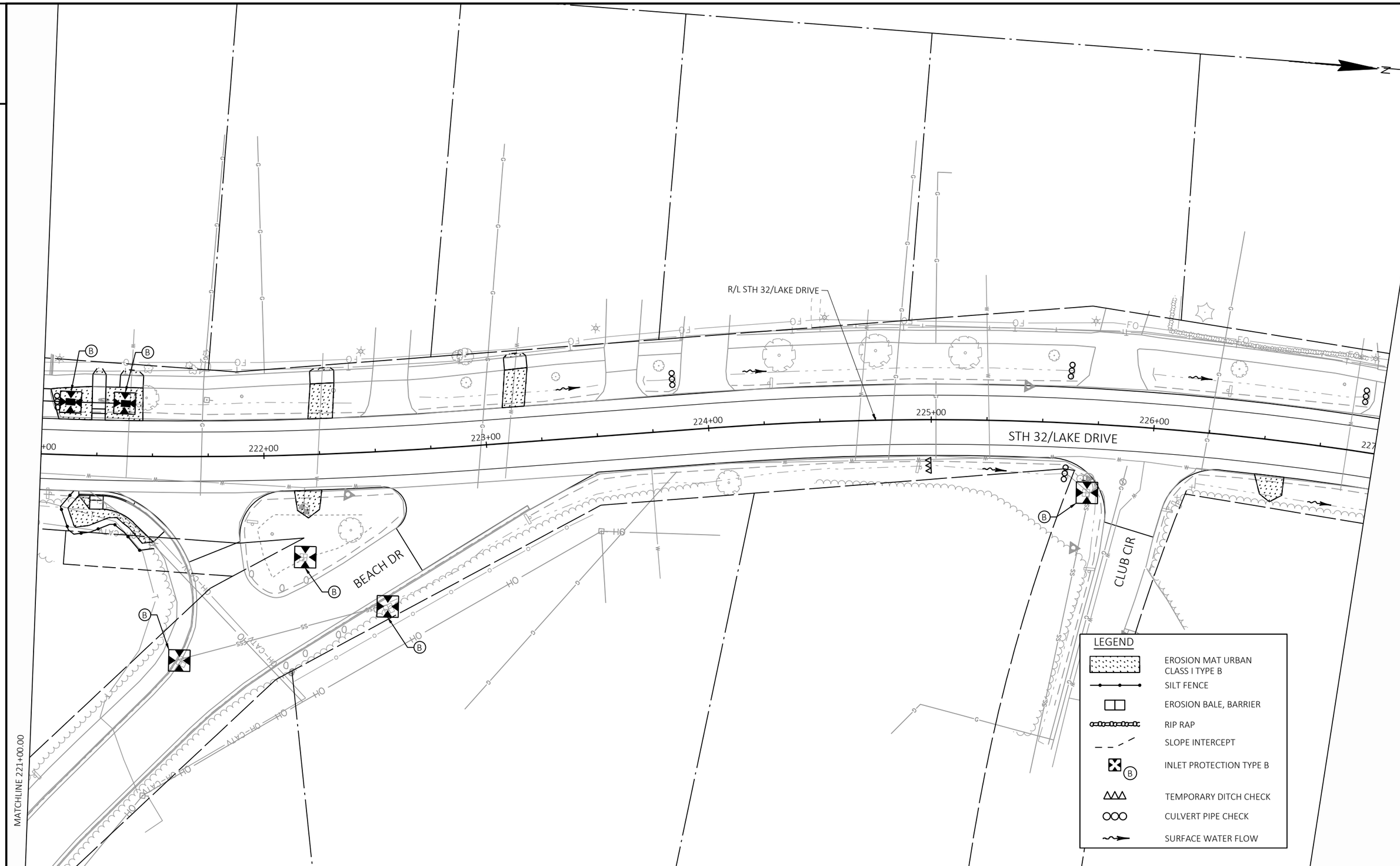
2



2

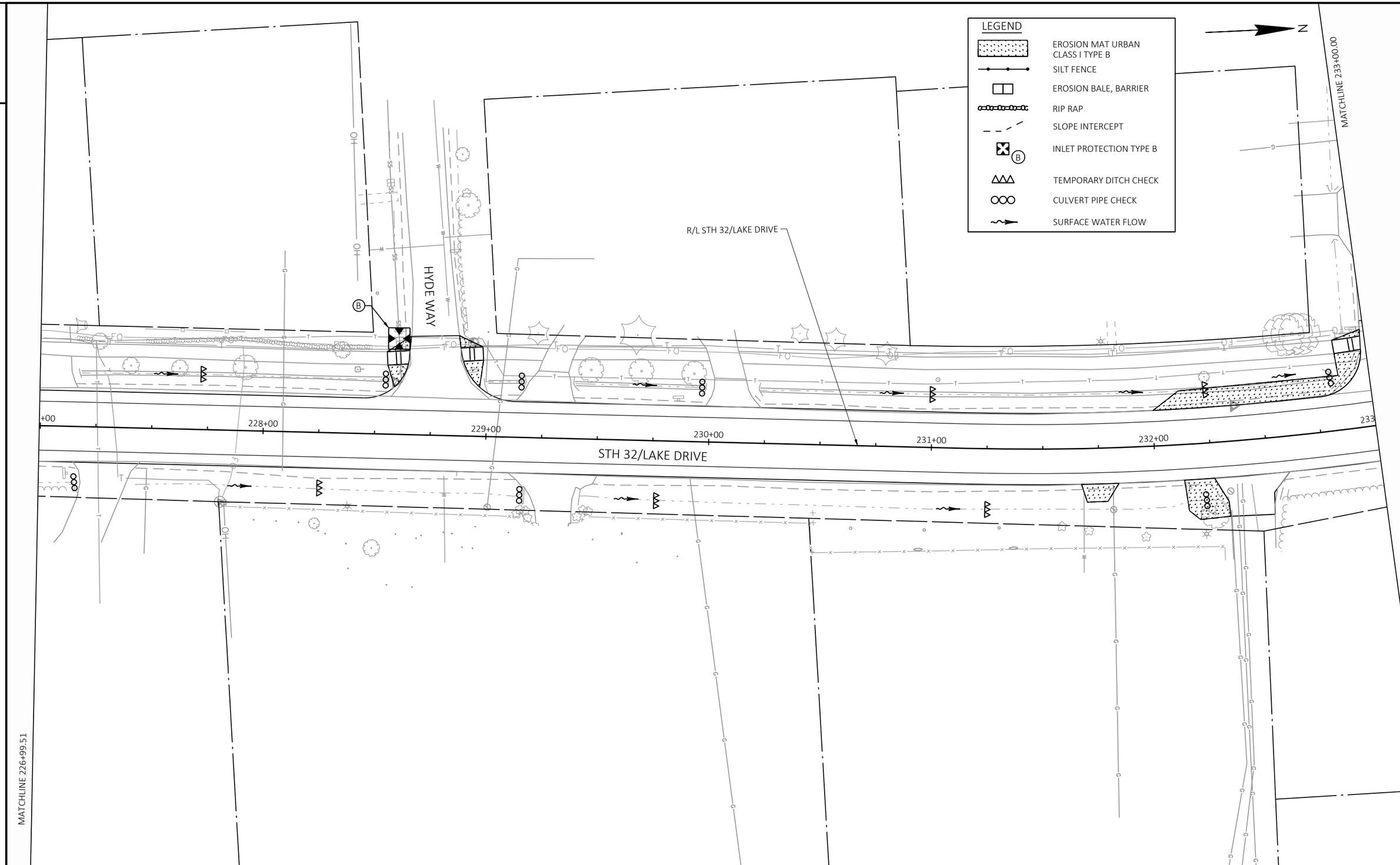
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 111	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(15)
PLOT DATE : 10/14/2024 6:39 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 112	E

2

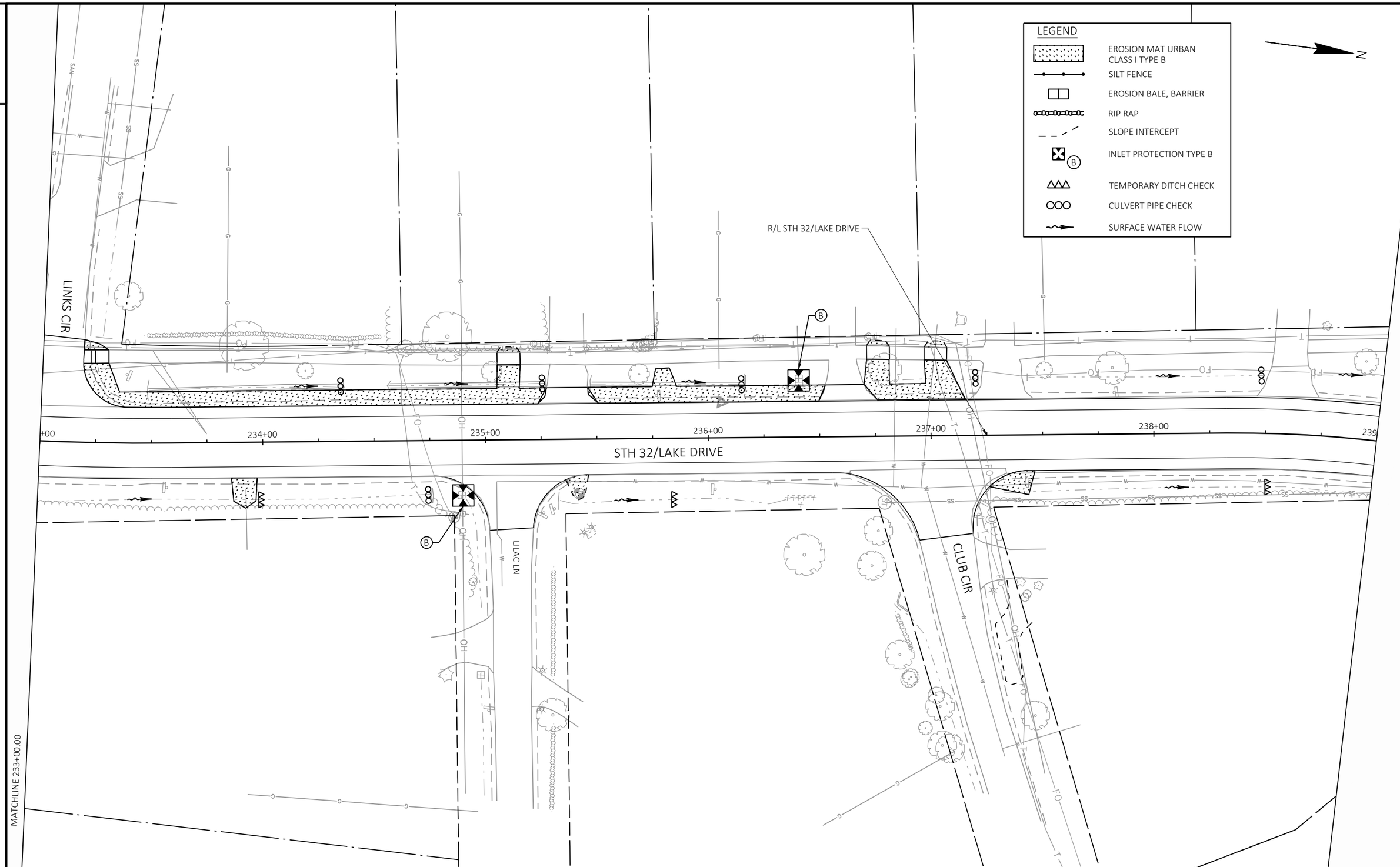


2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 113	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(17)
PLOT DATE : 10/14/2024 6:39 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 114	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(18)
PLOT DATE : 10/14/2024 6:39 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

WETLAND BOUNDARY (TYP)

R/L STH 32/LAKE DRIVE

LINKS CIR

BRADLEY RD

240+00

241+00

242+00

243+00

244+00

STH 32/LAKE DRIVE

COLLAPSED MANHOLE

MATCHLINE 239+00.00

N

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- RIP RAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE B
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

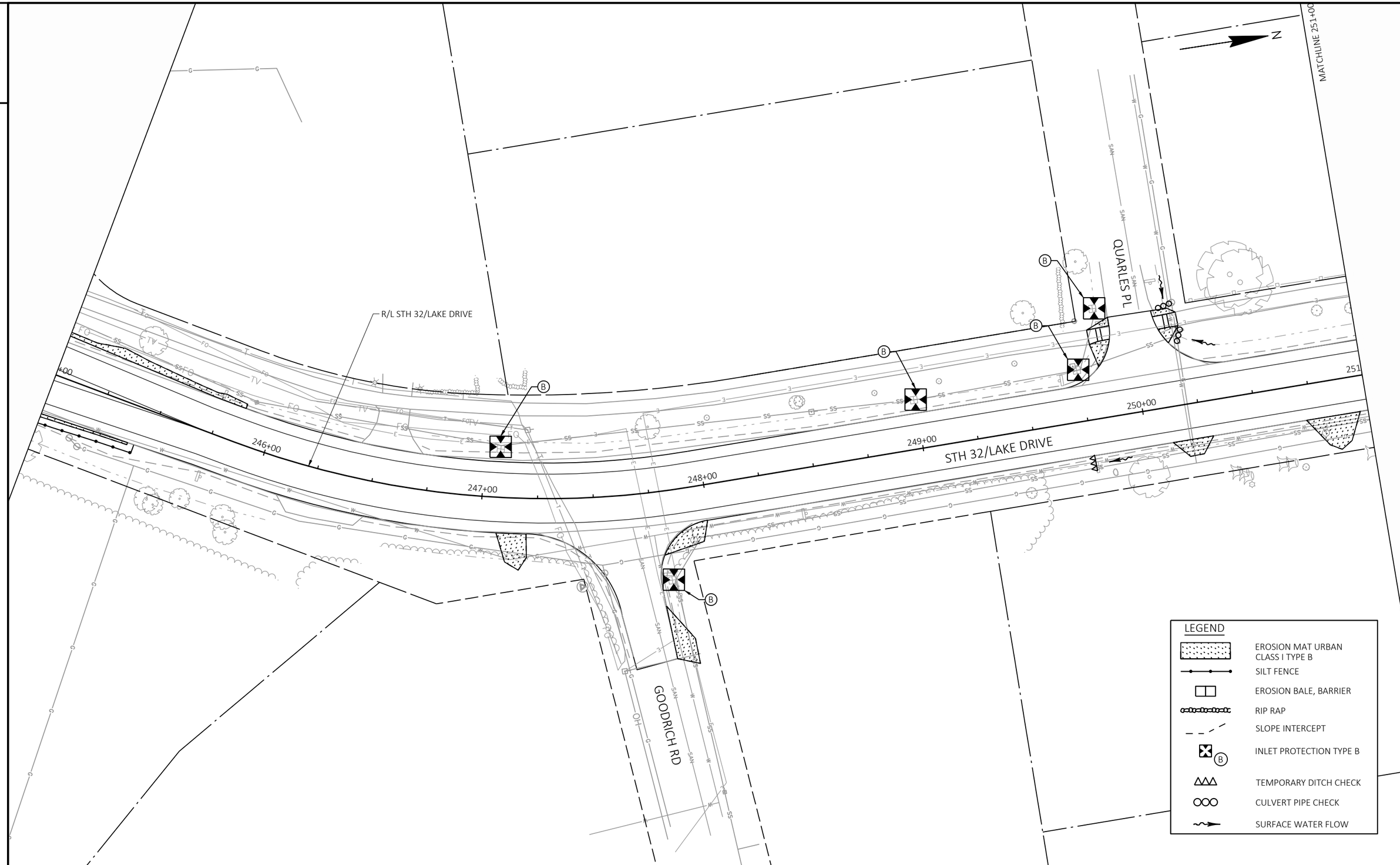
2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 115	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(19)

PLOT DATE : 10/14/2024 6:39 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

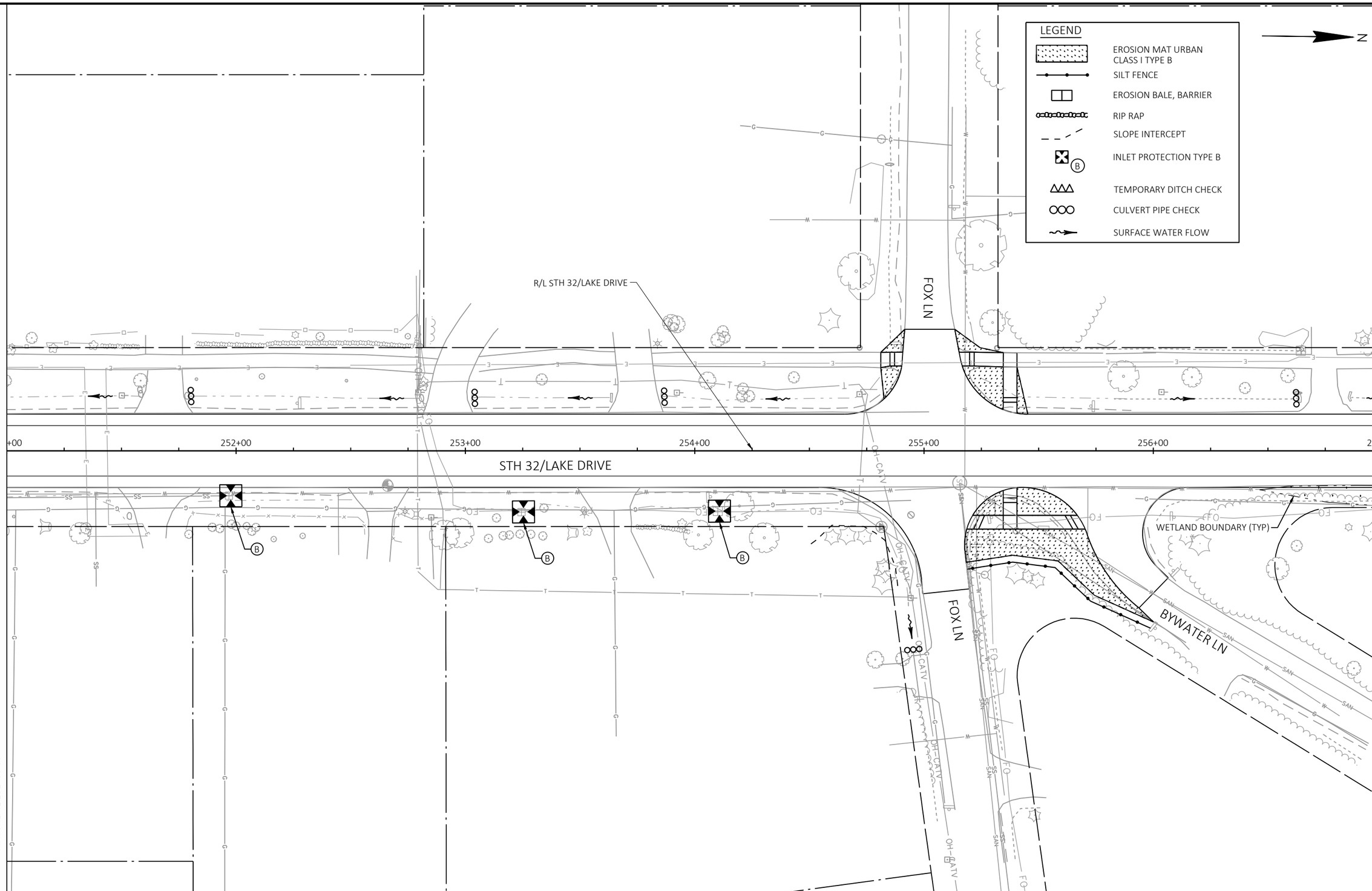
WISDOT/CADDS SHEET 42



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 116	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(20)
PLOT DATE : 10/14/2024 6:40 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 117	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(21)
PLOT DATE : 10/14/2024 6:40 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

MATCHLINE 263+00.00

N

CHURCHILL LN

R/L STH 32/LAKE DRIVE

+00 258+00 259+00 260+00 261+00 262+00 263

STH 32/LAKE DRIVE

WETLAND BOUNDARY (TYP)

MATCHLINE 257+00.00

LEGEND

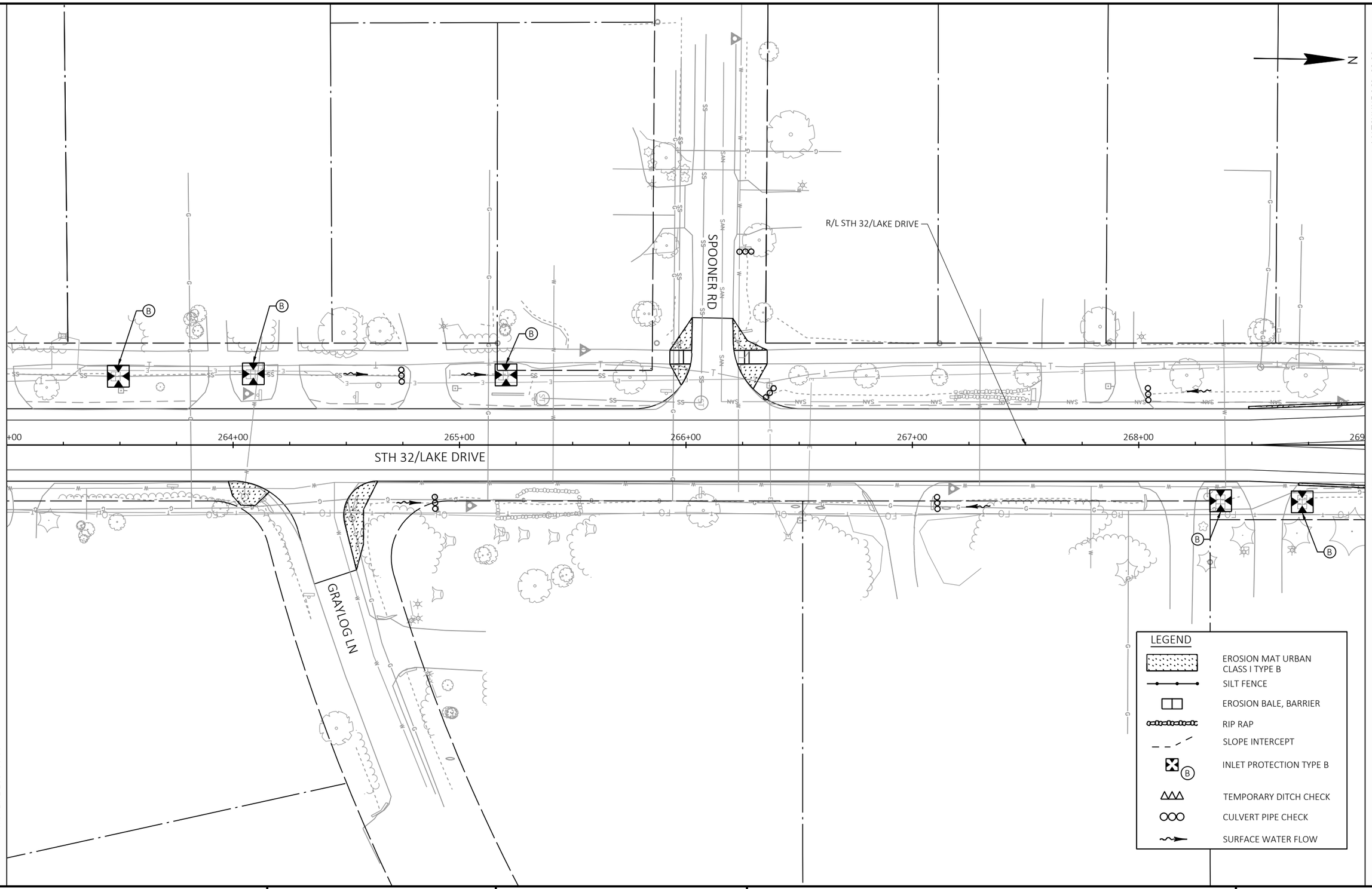
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- RIP RAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE B
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 118	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(22)

PLOT DATE : 10/14/2024 6:40 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

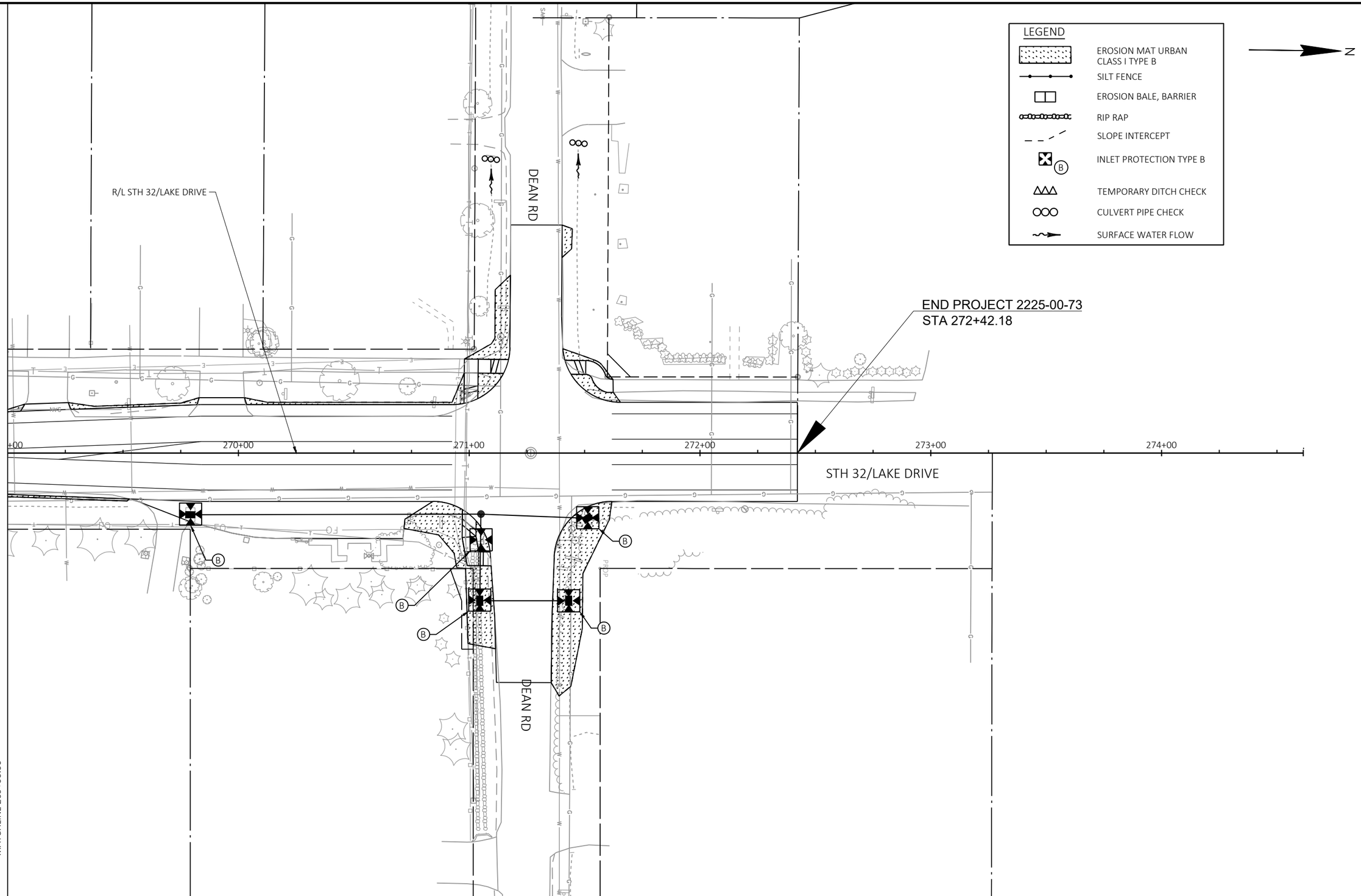
WISDOT/CADDS SHEET 42



2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 119	E

2



2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 120	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - EC-(24)
PLOT DATE : 10/14/2024 6:40 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

GENERAL DRAINAGE NOTES

LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE OR AS NOTED ON PLAN.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES AND PIPES SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

UTILITY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE. LOCATIONS SHOWN ARE TAKEN FROM EXISTING RECORDS AND BEST INFORMATION AVAILABLE FROM EXISTING PLANS. IT IS EXPECTED THAT THERE MAY BE DISCREPANCIES AND OMISSIONS IN THE LOCATION OF UTILITIES AND STRUCTURES SHOWN. VERIFY ALL LOCATIONS IN THE FIELD.

COORDINATE WITH DIGGERS HOTLINE TO FIELD LOCATE UTILITIES. SHEETING SHALL NOT GO THROUGH UTILITIES. ANY UTILITIES DAMAGED DUE TO CONTRACTOR ACTIVITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE COMPLETE SATISFACTION OF THE UTILITY FACILITY.

VERIFY THE EXISTING DRAINAGE SYSTEM CONNECTION LOCATIONS AND ELEVATIONS PRIOR TO ORDERING DRAINAGE STRUCTURES AND PIPES. NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE INFORMATION SHOWN ON THE PLANS PRIOR TO INSTALLING THE PROPOSED STORM SEWER.

PROVIDE TEMPORARY POSITIVE DRAINAGE THROUGHOUT THE PROJECT DURING ALL PROJECT STAGES. PROVIDING TEMPORARY POSITIVE DRAINAGE IS INCIDENTAL TO CONSTRUCTION.

SUPPORTING UTILITIES DURING DRAINAGE CONSTRUCTION IS INCIDENTAL TO DRAINAGE PIPE AND/OR DRAINAGE STRUCTURE.

CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS AND PIPE SIZES PRIOR TO PRODUCTION OF NEW DRAINAGE STRUCTURES.

STORM SEWER LEGEND

- E## — EXISTING DRAINAGE STRUCTURE
- ### — PROPOSED DRAINAGE STRUCTURE
- REMOVING MANHOLES
- PROPOSED MANHOLE
- REMOVING INLETS
- PROPOSED INLET
- PROPOSED ENDWALL
- RM — REMOVING STORM SEWER PIPE
- PROPOSED STORM SEWER/CULVERT PIPE PLAN VIEW
- PROPOSED PIPE UNDERDRAIN
- PROPOSED PIPE UNDERDRAIN ENDWALL

2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE PLAN LEGEND	SHEET 121	E

2

SLOPE INTERCEPT (TYP)

APPLE TREE RD

EXISTING R/W

R/L STH 32/LAKE DRIVE

143+00 144+00 145+00 146+00 147+00 148+00 149+

STH 32/LAKE DRIVE

EXISTING R/W

SLOPE INTERCEPT (TYP)

HOLLY CT

SLOPE INTERCEPT (TYP)

EXISTING R/W

R/L STH 32/LAKE DRIVE

162+00.00

156+00 157+00 158+00 159+00 160+00 161+00 162

STH 32/LAKE DRIVE

EXISTING R/W

BARNETT LN

SLOPE INTERCEPT (TYP)

EXISTING R/W

2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE REMOVAL PLAN	SHEET 122	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022507-DR.DWG
LAYOUT NAME - DR-RM1

PLOT DATE : 10/14/2024 6:42 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

2

R/L STH 32/LAKE DRIVE

SLOPE INTERCEPT (TYP)

163+00

164+00

165+00

166+00

167+00

STH 32/LAKE DRIVE

EXISTING R/W

EXISTING R/W

SLOPE INTERCEPT (TYP)

162+00.00

VIEW PL

SLOPE INTERCEPT (TYP)

VILLAGE OF FOX POINT PARCEL

SLOPE INTERCEPT (TYP)

EXISTING R/W

STH 32/LAKE DRIVE

174+00

175+00

176+00

177+00

178+00

179+00

50+00

EXISTING R/W

EXISTING R/W

WETLAND BOUNDARY (TYP)

R/L STH 32/LAKE DRIVE

END CONSTRUCTION
STA 50+46.04

GREEN TREE RD

R/L GREEN TREE RD

51+00

SLOPE INTERCEPT (TYP)

2

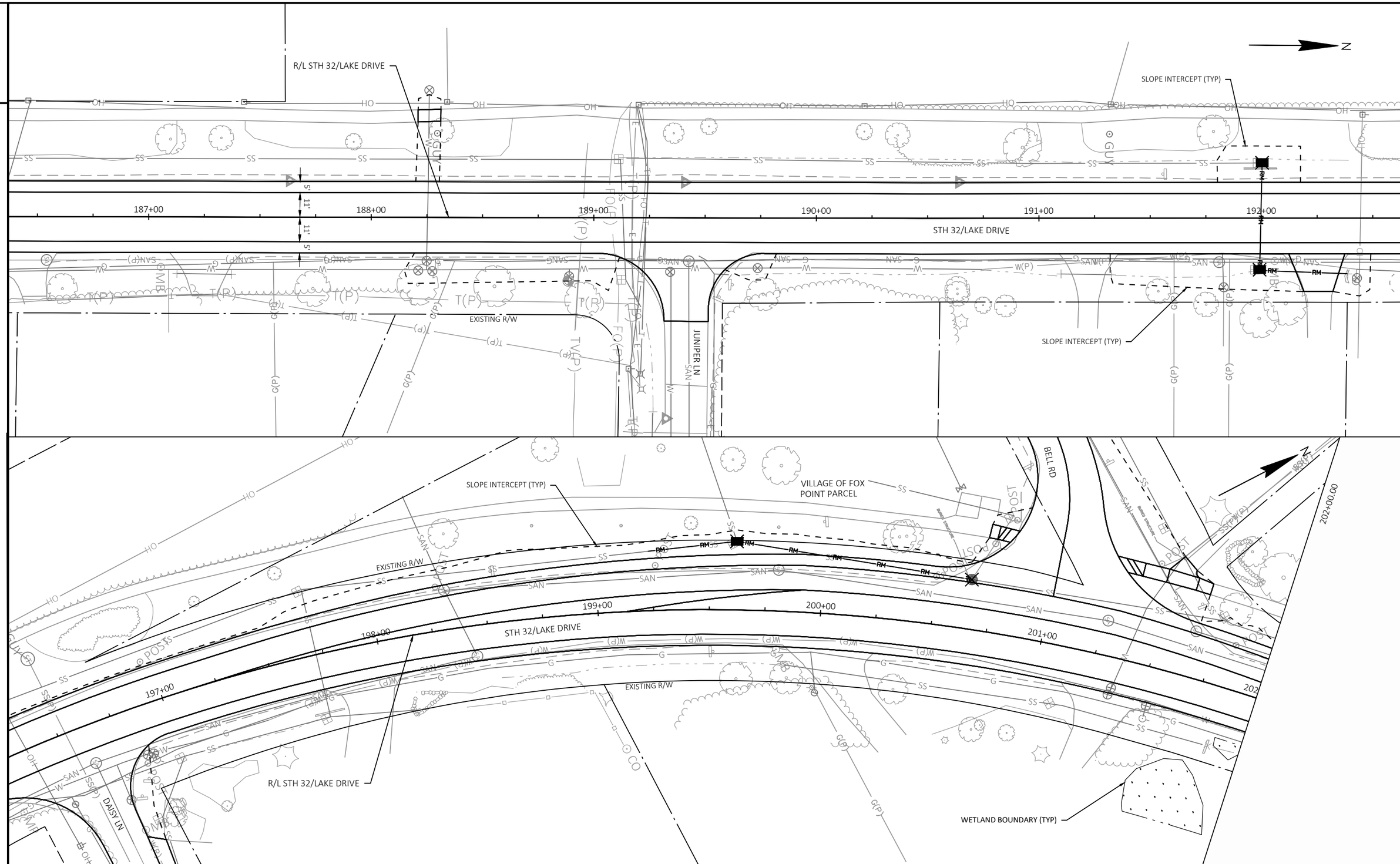
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE REMOVAL PLAN	SHEET 123	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022507-DR.DWG
LAYOUT NAME - DR-RM2

PLOT DATE : 10/14/2024 6:42 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 41

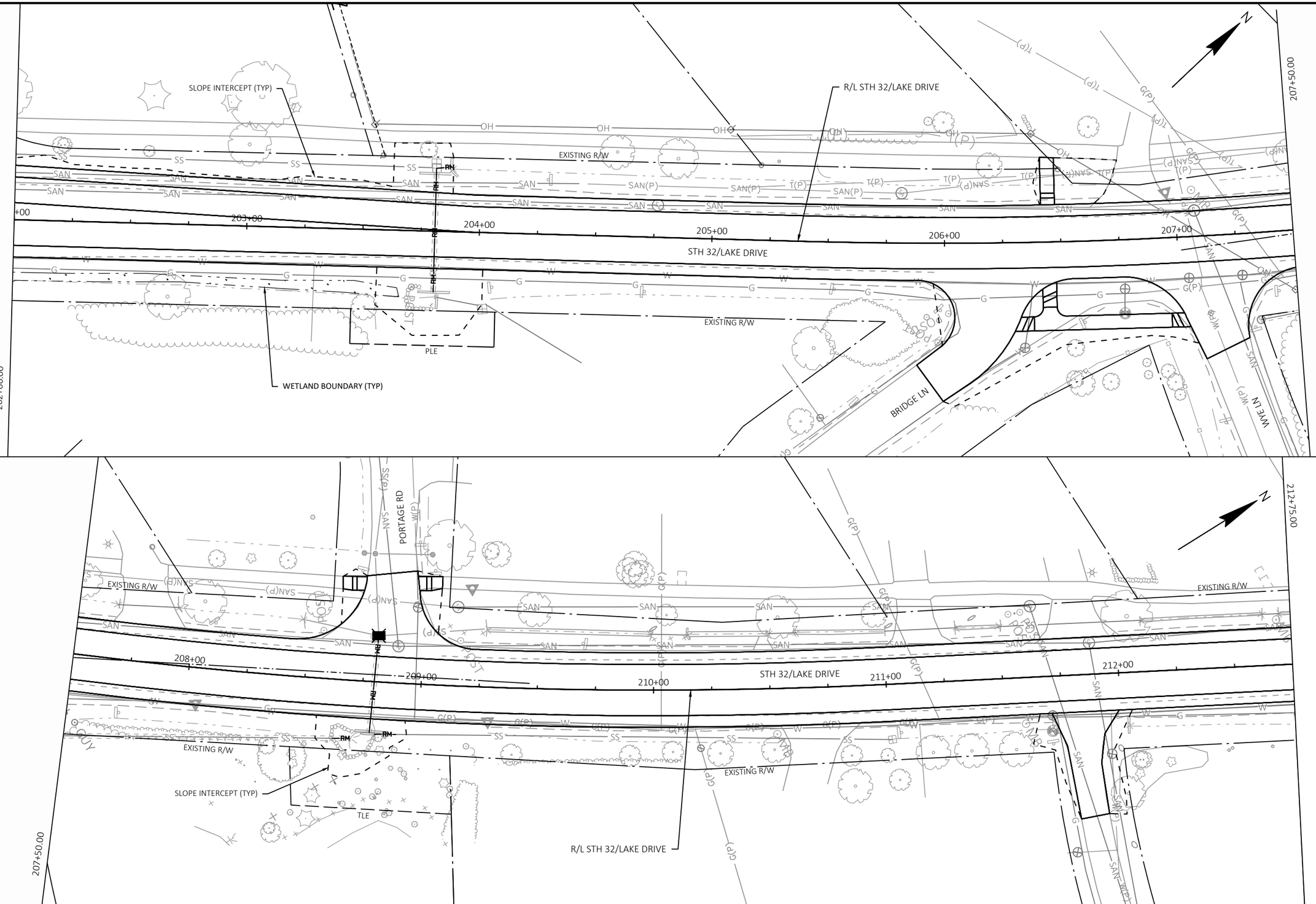
2



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE REMOVAL PLAN	SHEET 124	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022507-DR.DWG
LAYOUT NAME - DR-RM3
PLOT DATE : 10/14/2024 6:42 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 41

2



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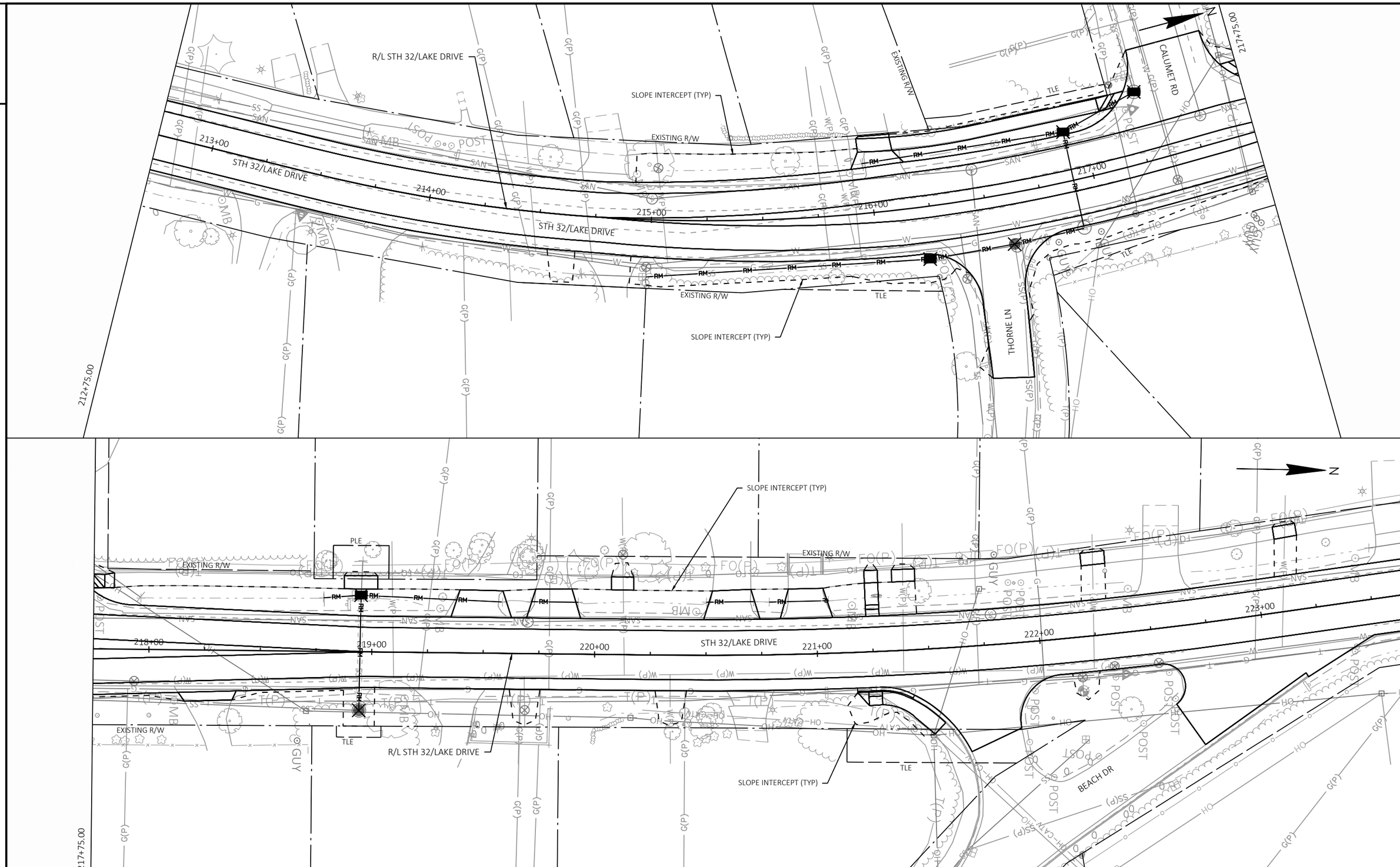
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE REMOVAL PLAN	SHEET 125	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022507-DR.DWG
LAYOUT NAME - DR-RM5
PLOT DATE : 10/15/2024 10:32 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 41

2



2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE REMOVAL PLAN	SHEET 126	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022507-DR.DWG
LAYOUT NAME - DR-RM6
PLOT DATE : 10/14/2024 6:43 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 41

2

SLOPE INTERCEPT (TYP)

R/L STH 32/LAKE DRIVE

BRADLEY RD

EXISTING R/W

241+00 242+00 243+00 244+00 245+00 246+00

STH 32/LAKE DRIVE

EXISTING R/W

SLOPE INTERCEPT (TYP)

CHURCHILL LN

TREE TO REMAIN

TREE TO REMAIN

SLOPE INTERCEPT (TYP)

EXISTING R/W

EXISTING R/W

R/L STH 32/LAKE DRIVE

257+00 258+00 259+00 260+00 261+00 262+00 263+0

STH 32/LAKE DRIVE

EXISTING R/W

WETLAND BOUNDARY (TYP)

TREE TO REMAIN

TREE TO REMAIN

SLOPE INTERCEPT (TYP)

TREE TO REMAIN

TREE TO REMAIN

TREE TO REMAIN

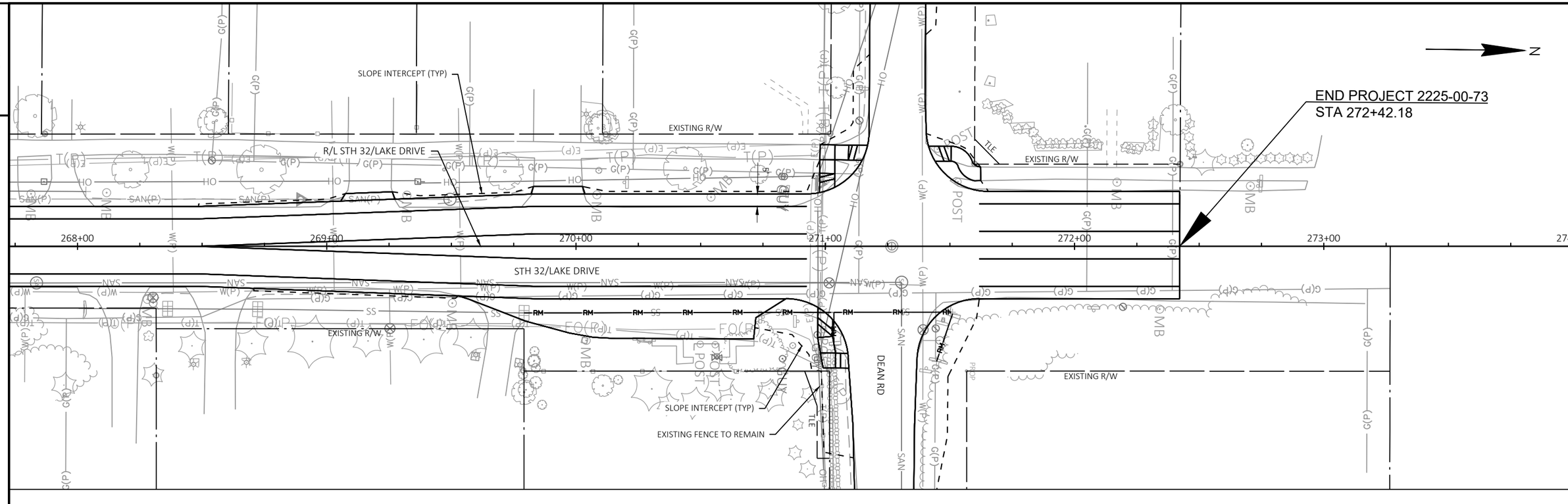
2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE REMOVAL PLAN	SHEET 127	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022507-DR.DWG
LAYOUT NAME - DR-RM7

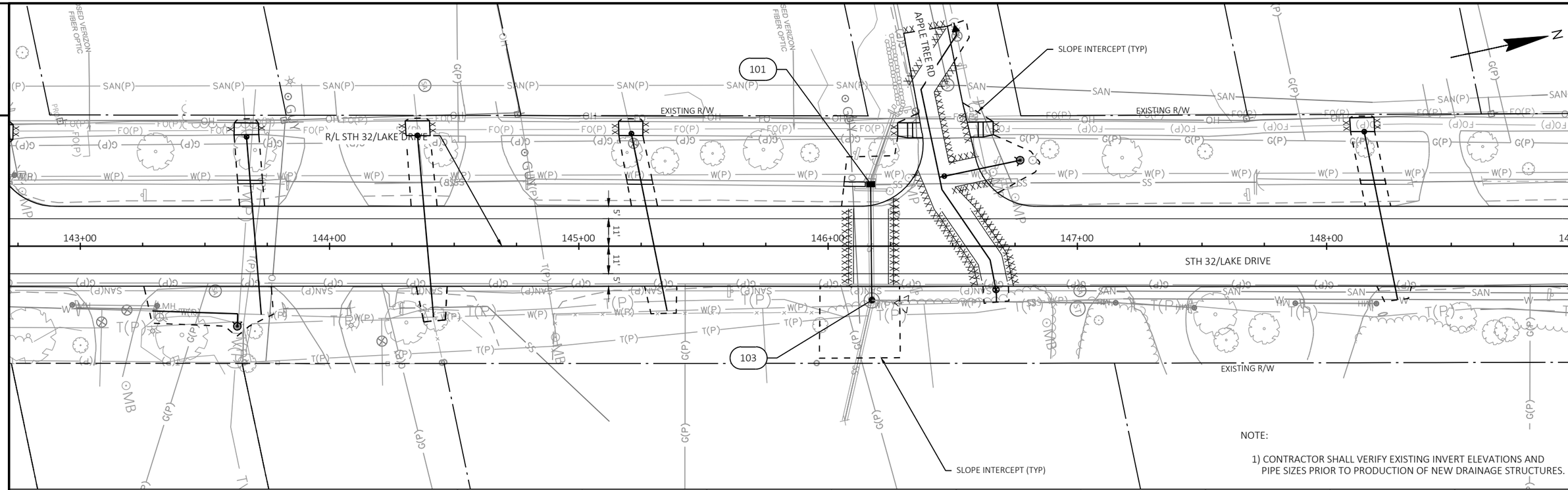
PLOT DATE : 10/14/2024 6:43 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 41



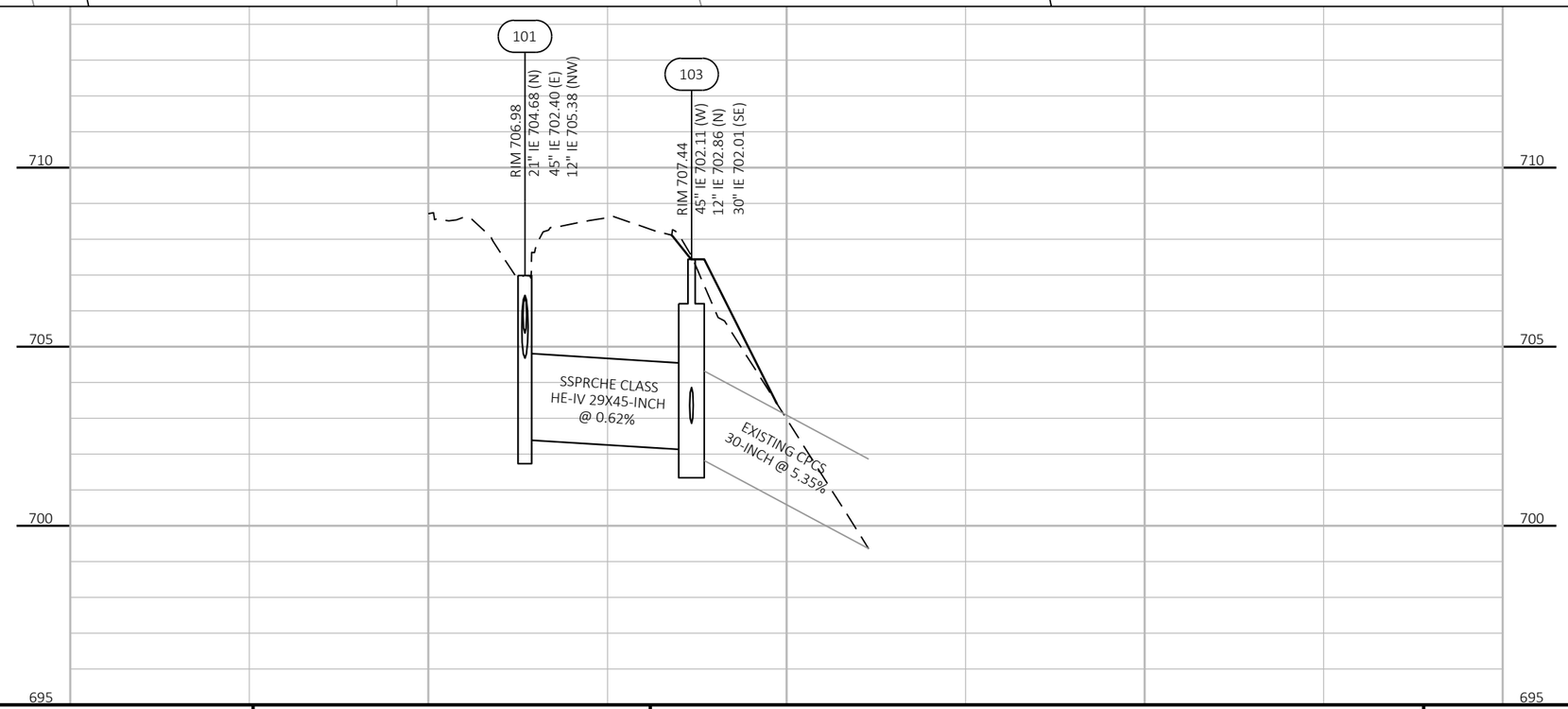
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE REMOVAL PLAN	SHEET 128	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022507-DR.DWG
LAYOUT NAME - DR-RM8
PLOT DATE : 10/14/2024 6:43 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 41



NOTE:

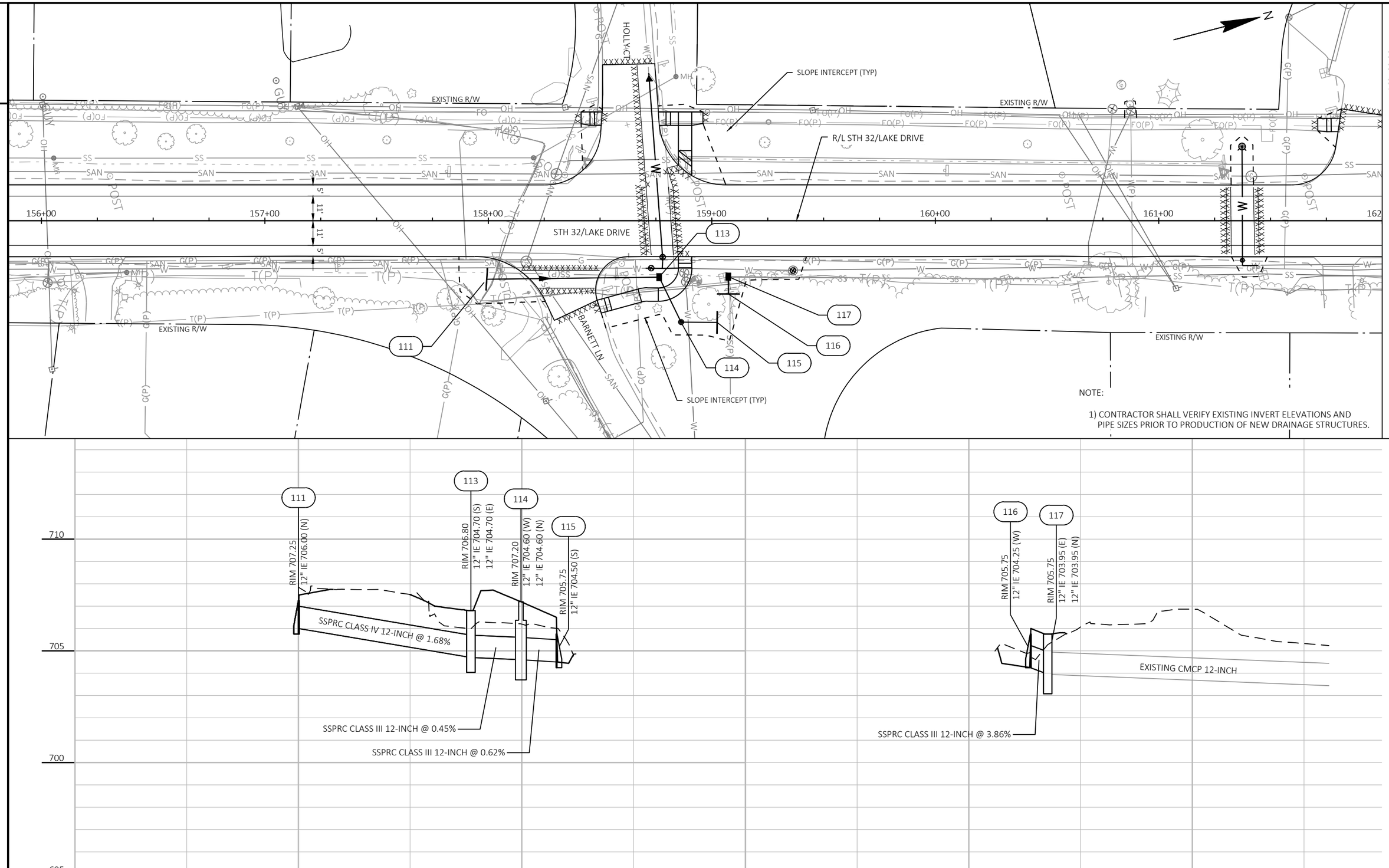
1) CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS AND PIPE SIZES PRIOR TO PRODUCTION OF NEW DRAINAGE STRUCTURES.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 129	E

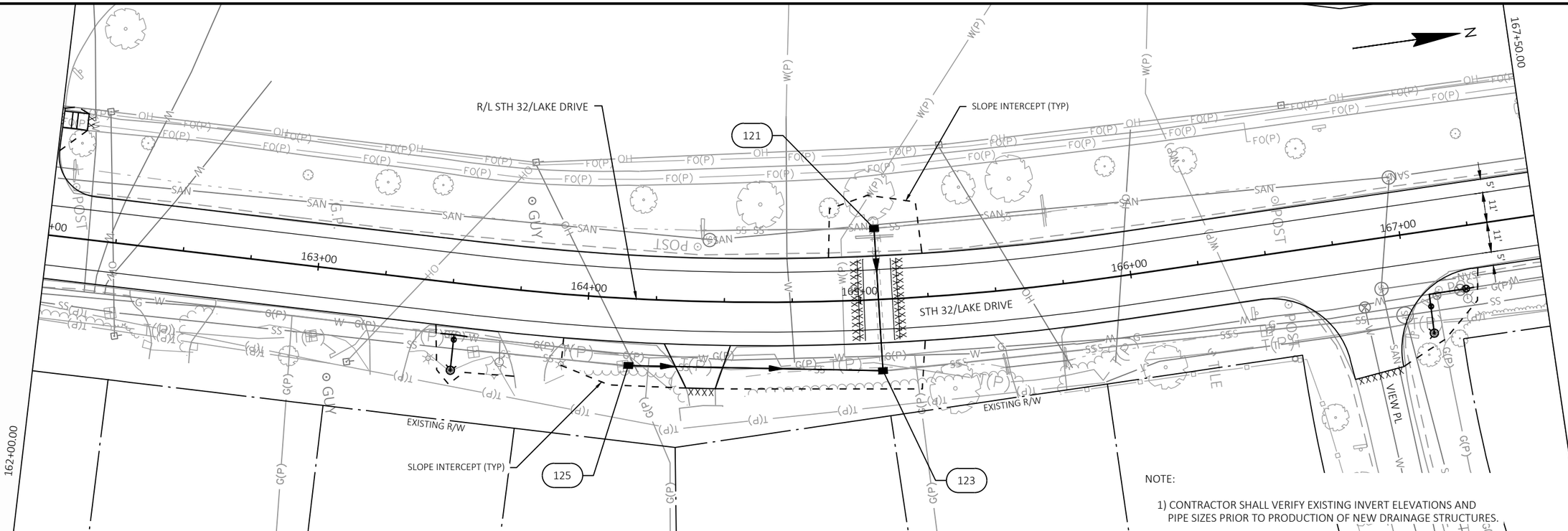
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022510-DR.DWG
LAYOUT NAME - DR(1)
PLOT DATE : 10/14/2024 6:45 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41



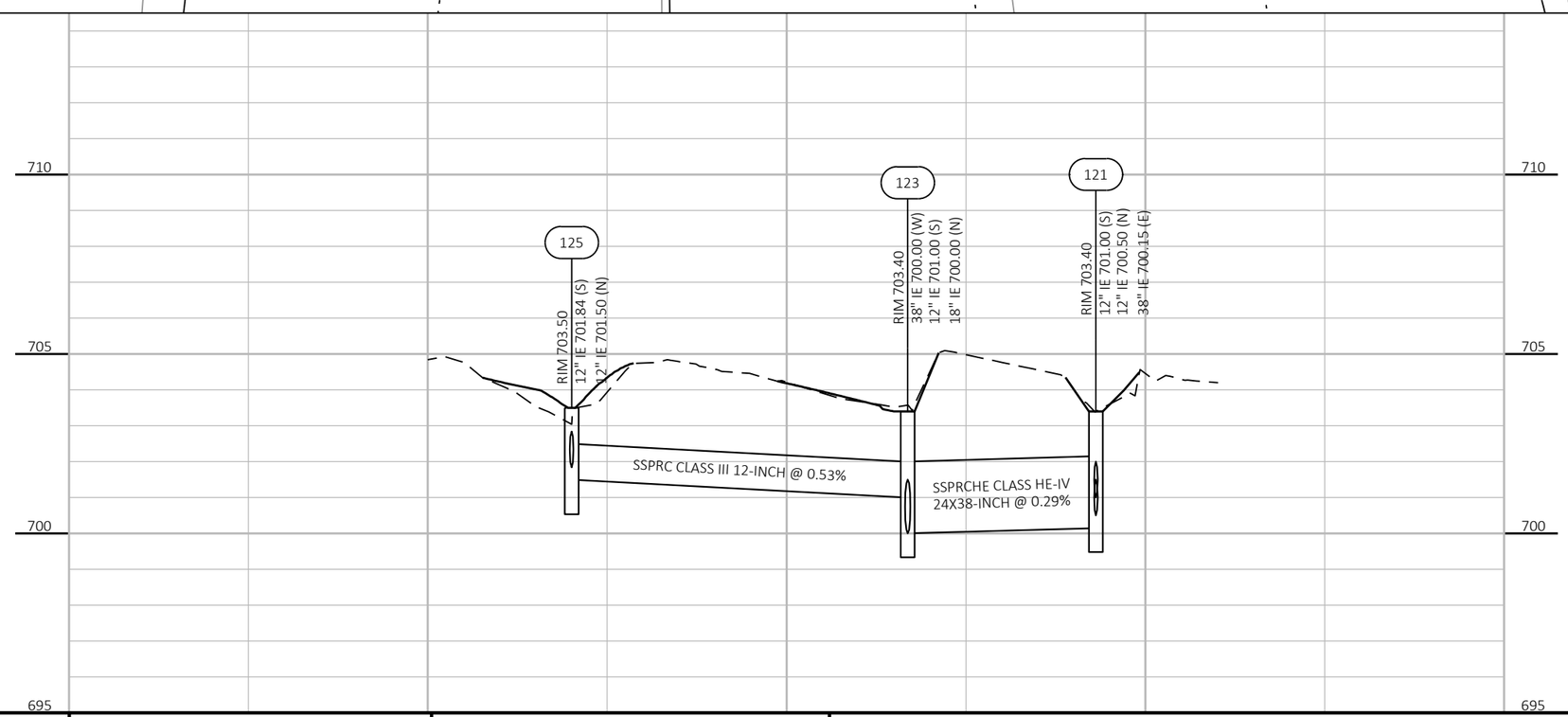
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 130	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022510-DR.DWG
LAYOUT NAME - DR(2)
PLOT DATE : 10/14/2024 6:45 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

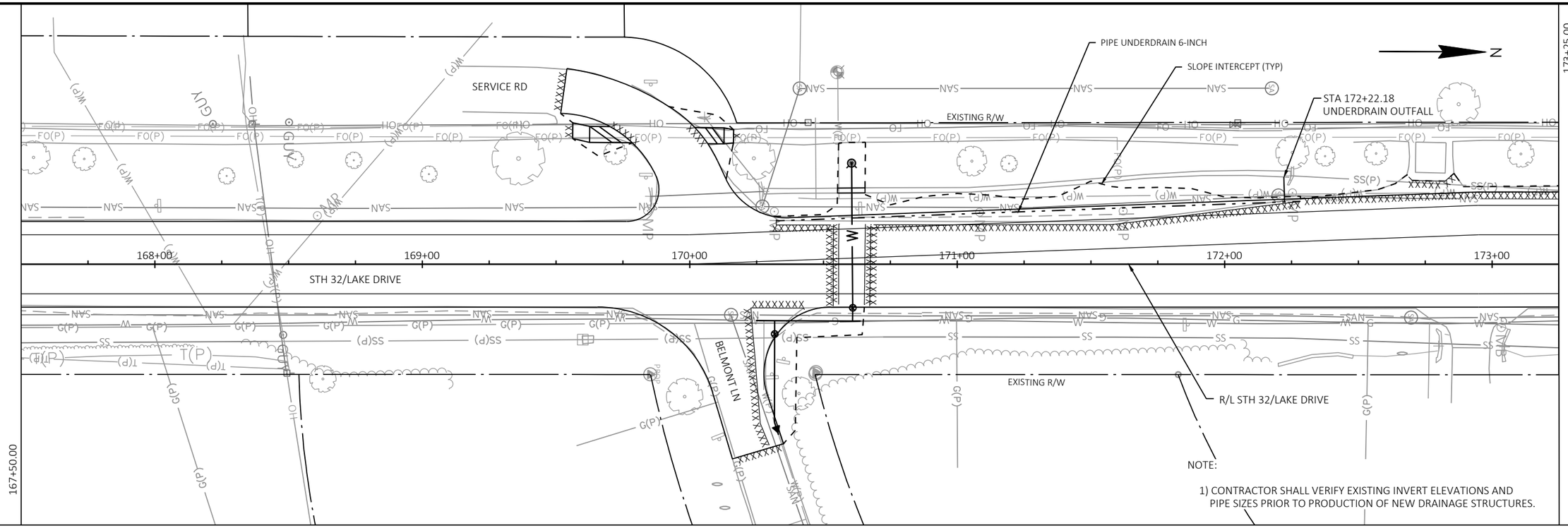


NOTE:

1) CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS AND PIPE SIZES PRIOR TO PRODUCTION OF NEW DRAINAGE STRUCTURES.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 131	E

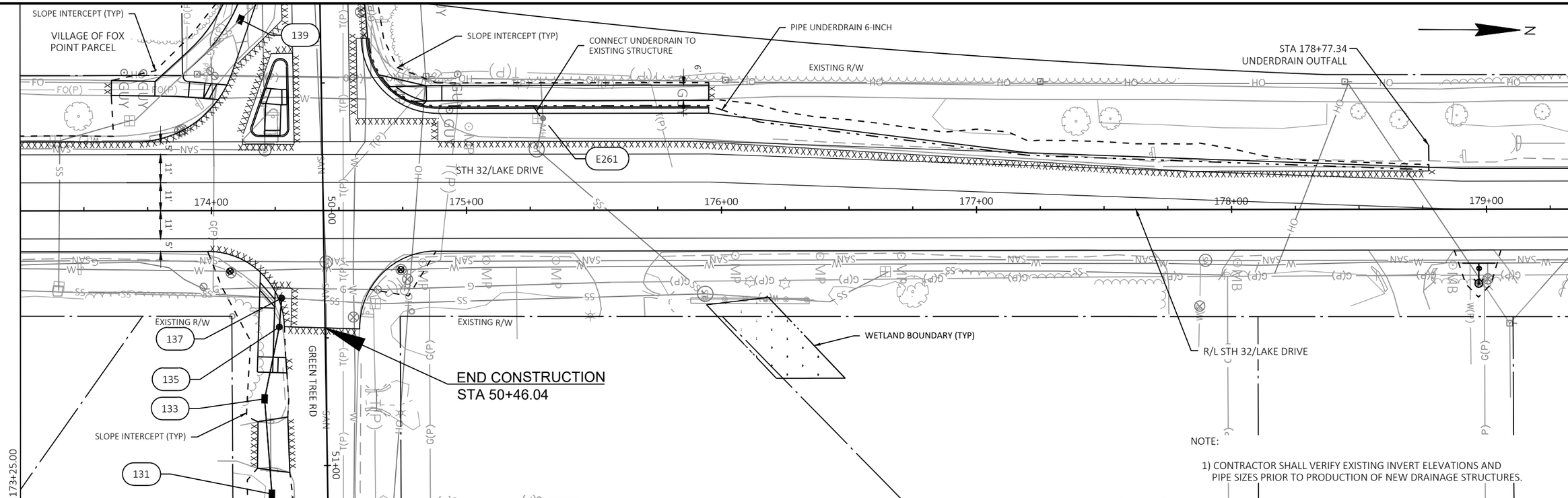


NOTE:

1) CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS AND PIPE SIZES PRIOR TO PRODUCTION OF NEW DRAINAGE STRUCTURES.

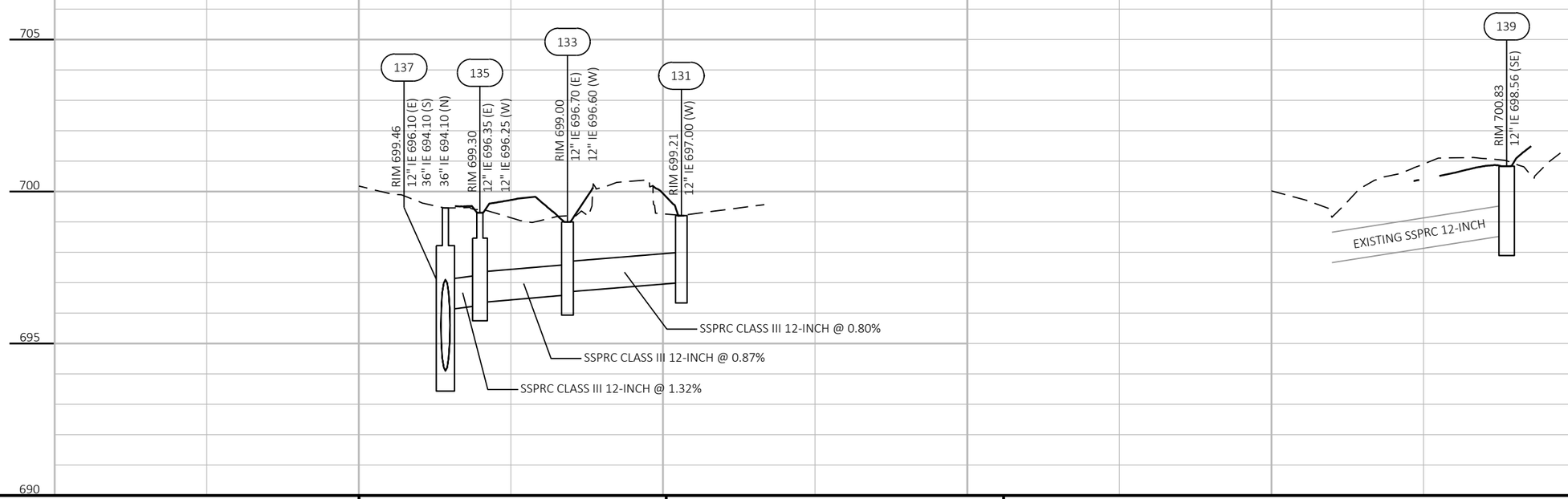
NO PROFILES THIS SHEET

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 132	E

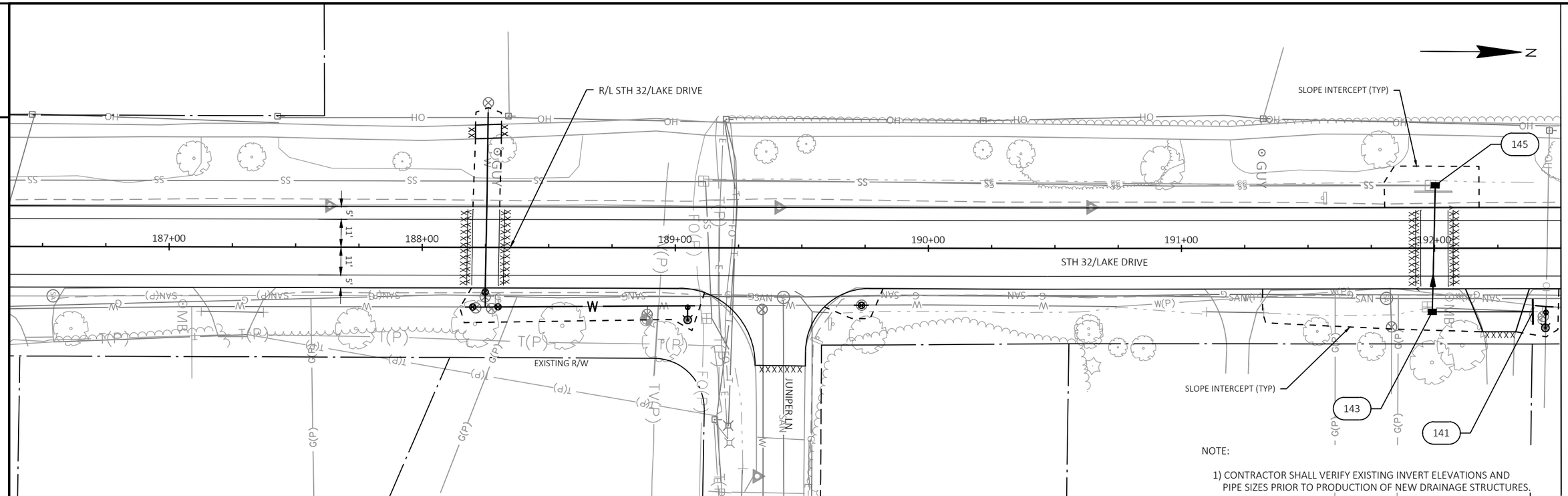


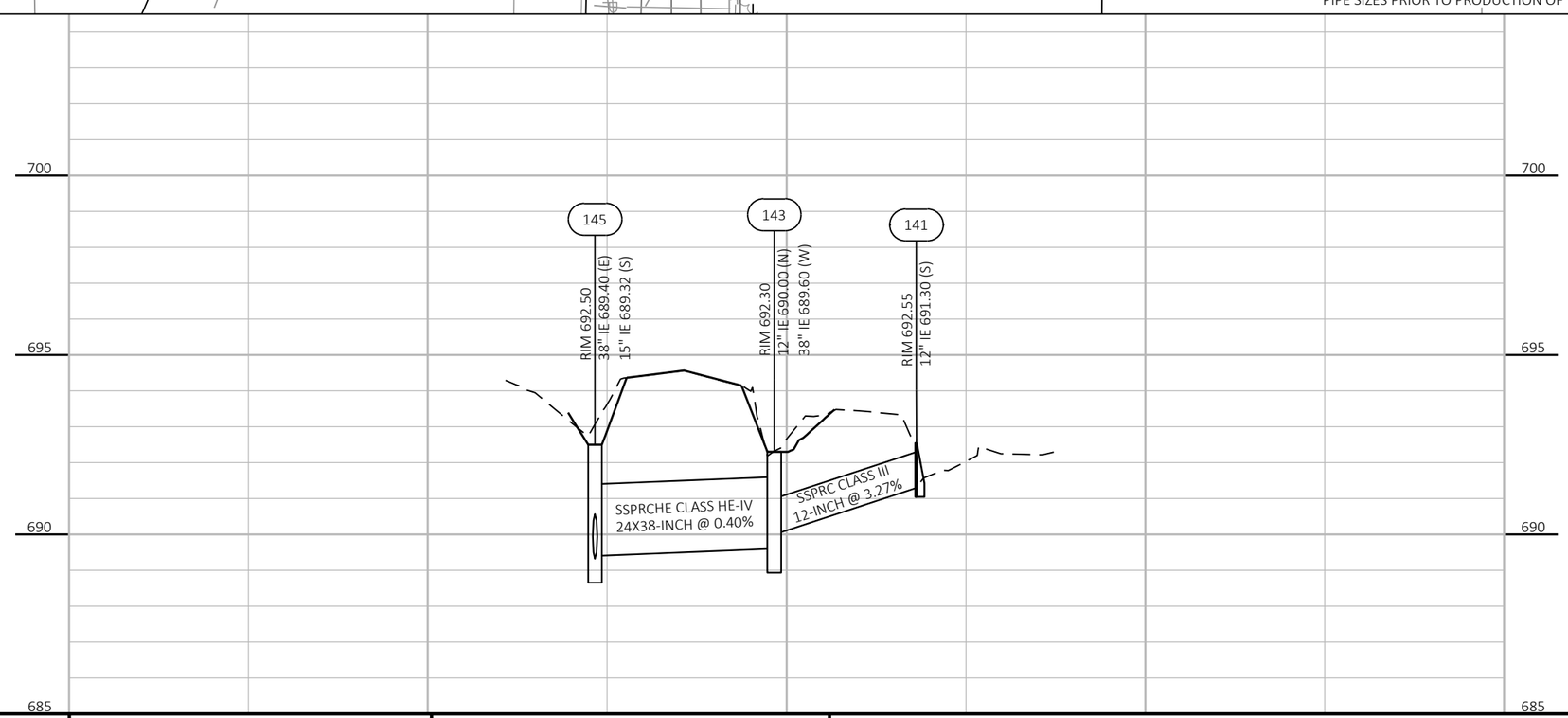
NOTE:

1) CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS AND PIPE SIZES PRIOR TO PRODUCTION OF NEW DRAINAGE STRUCTURES.



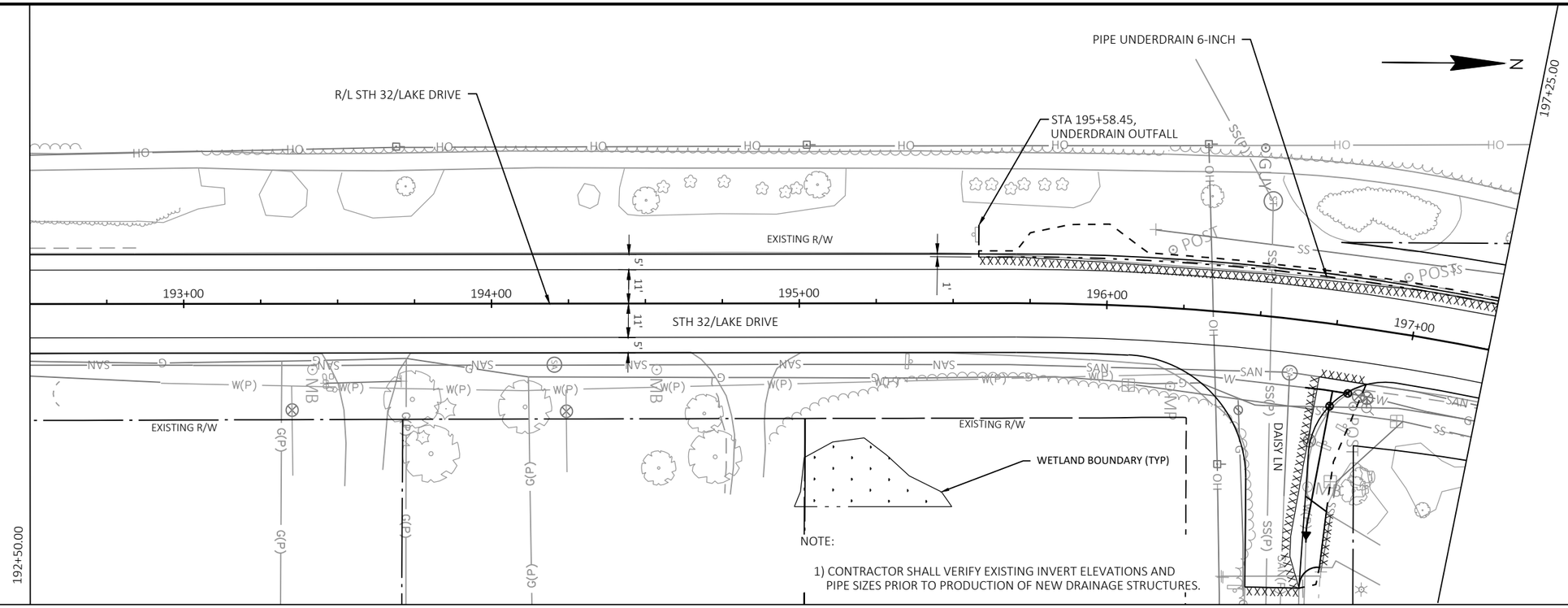
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 133	E





PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 134	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022510-DR.DWG
LAYOUT NAME - DR(5)
PLOT DATE : 10/14/2024 6:46 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41



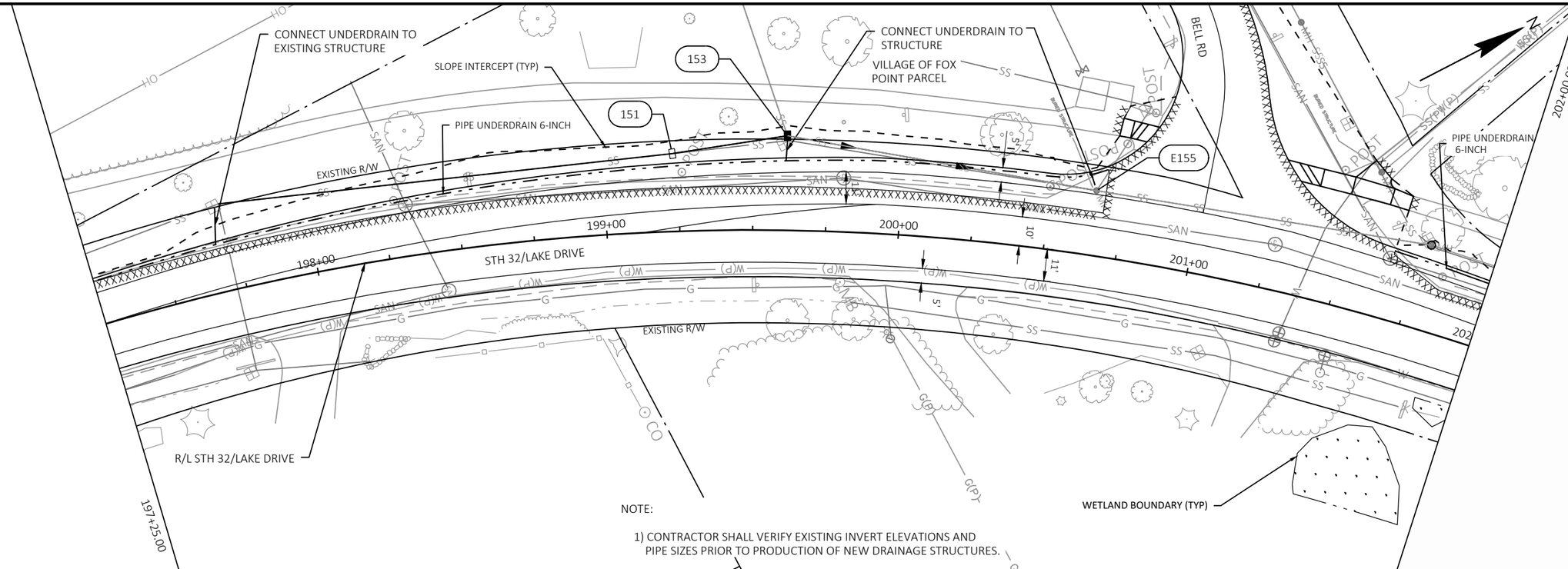
NOTE:

1) CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS AND PIPE SIZES PRIOR TO PRODUCTION OF NEW DRAINAGE STRUCTURES.

NO PROFILES THIS SHEET

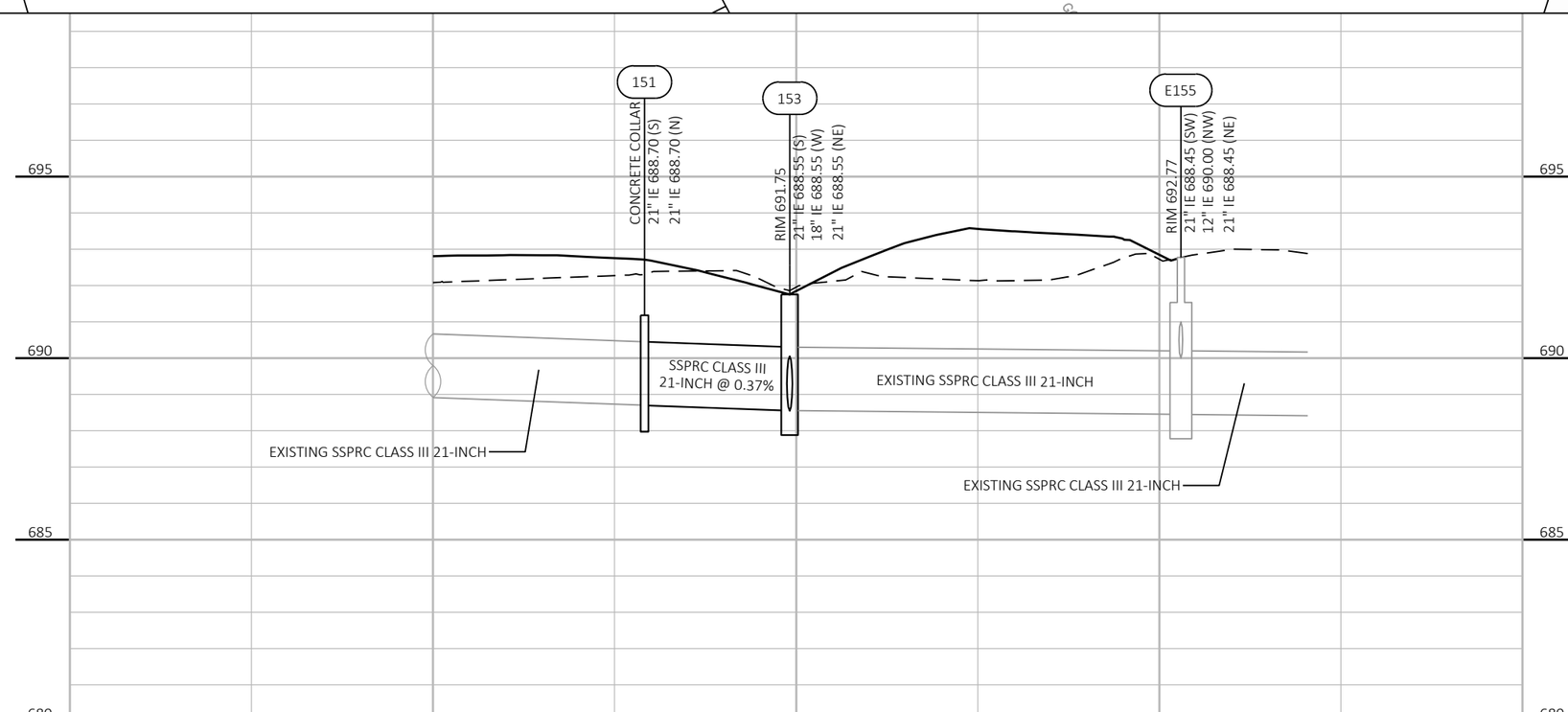
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 135	E

2



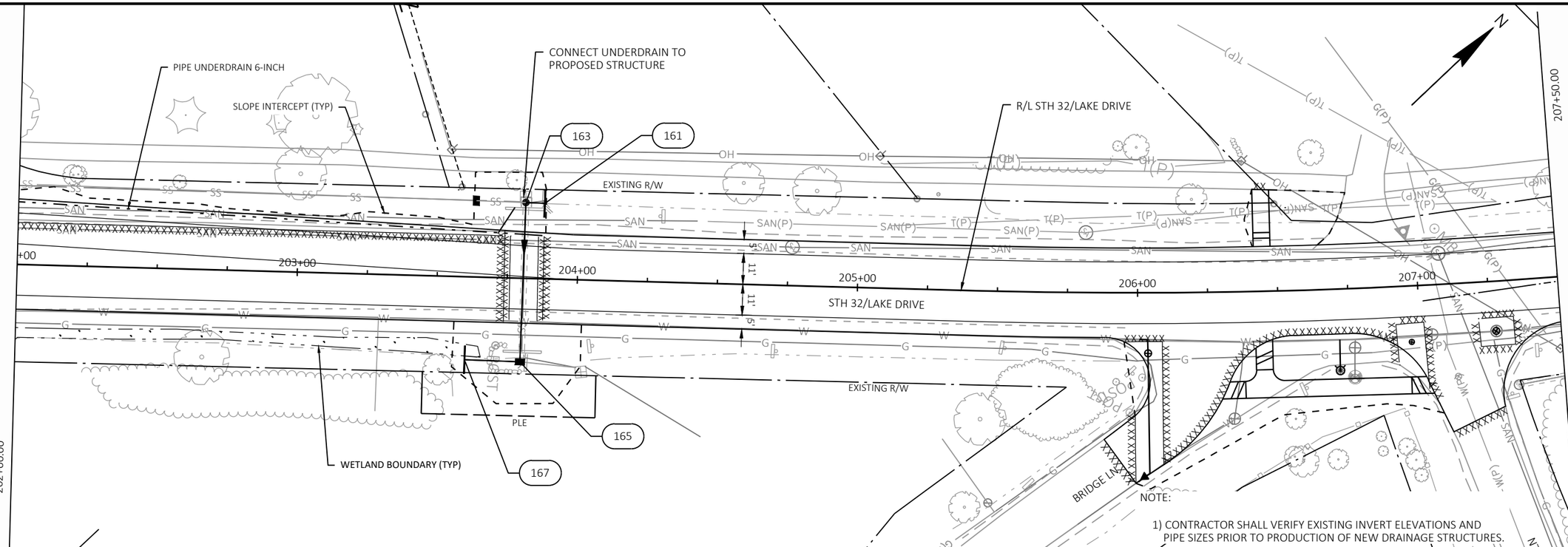
NOTE:

1) CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS AND PIPE SIZES PRIOR TO PRODUCTION OF NEW DRAINAGE STRUCTURES.



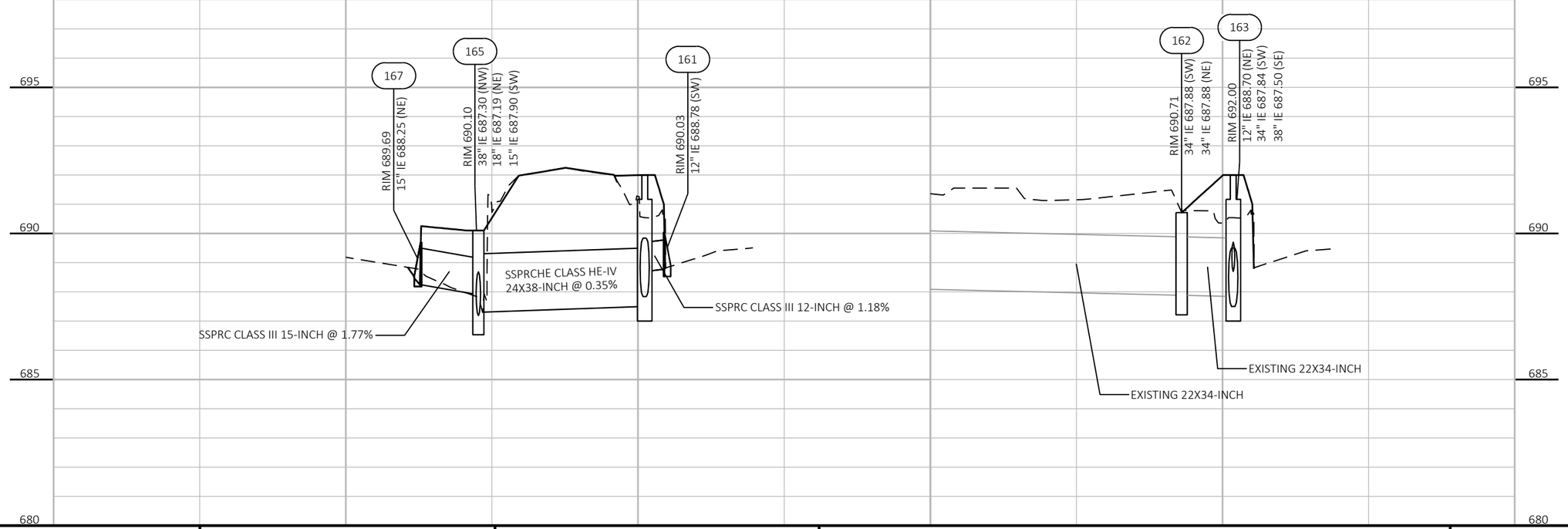
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 136	E

2



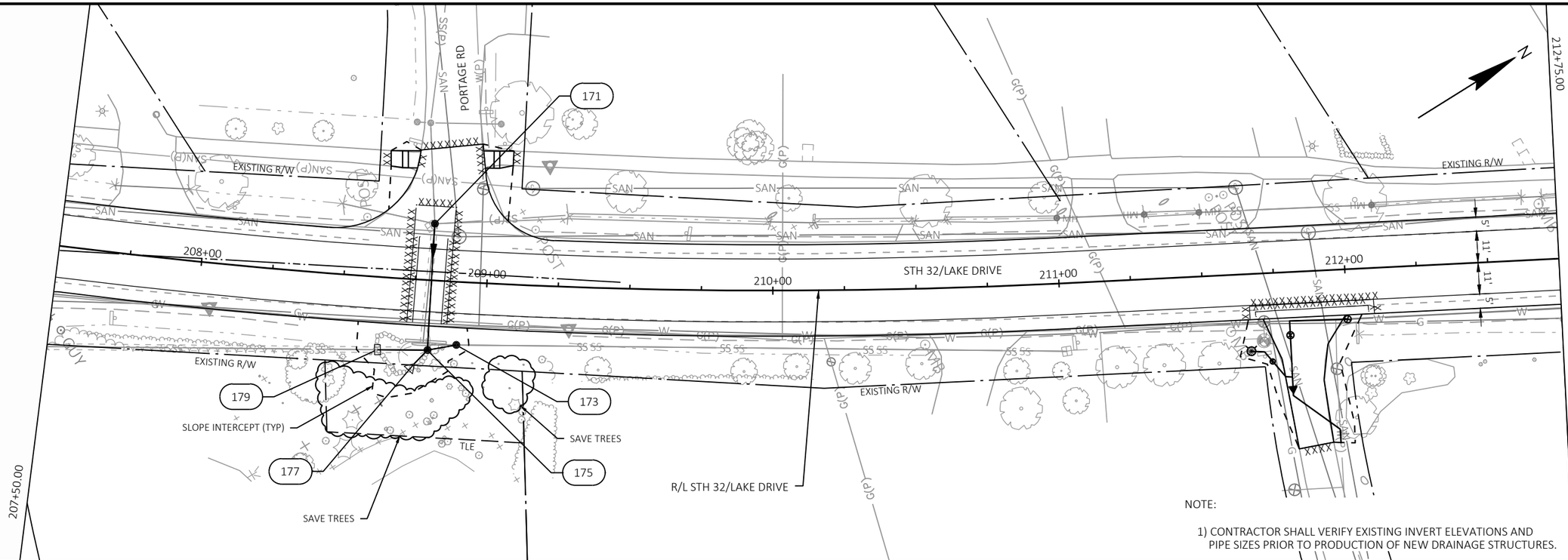
NOTE:

1) CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS AND PIPE SIZES PRIOR TO PRODUCTION OF NEW DRAINAGE STRUCTURES.



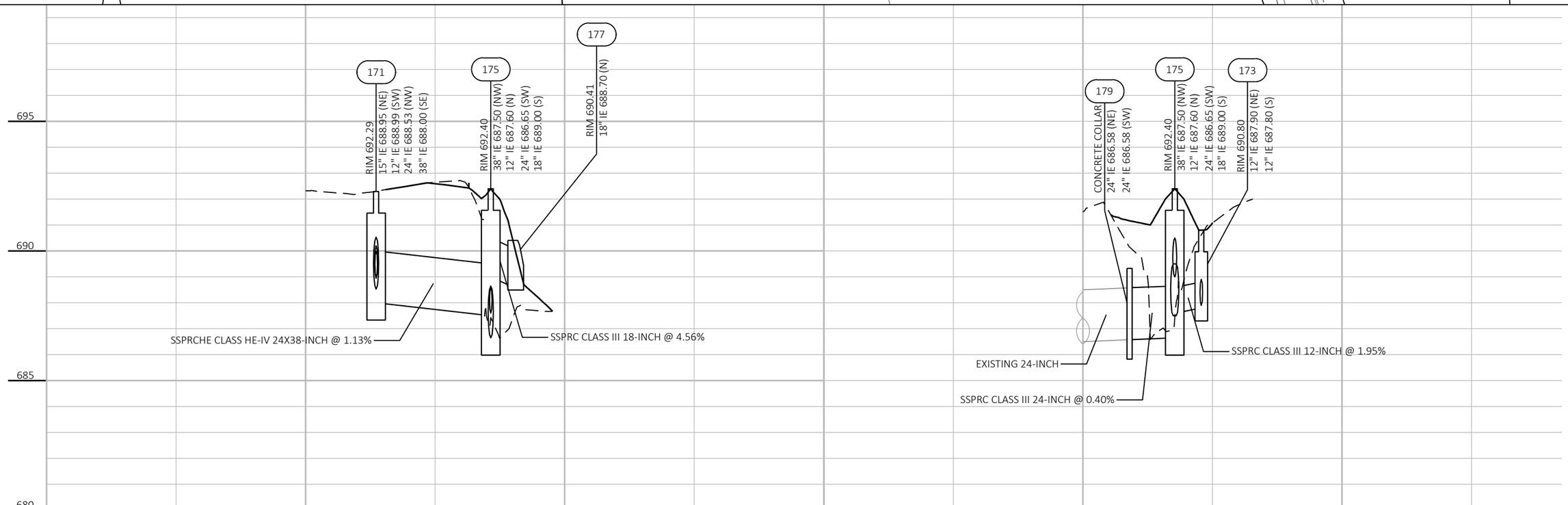
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 137	E

2



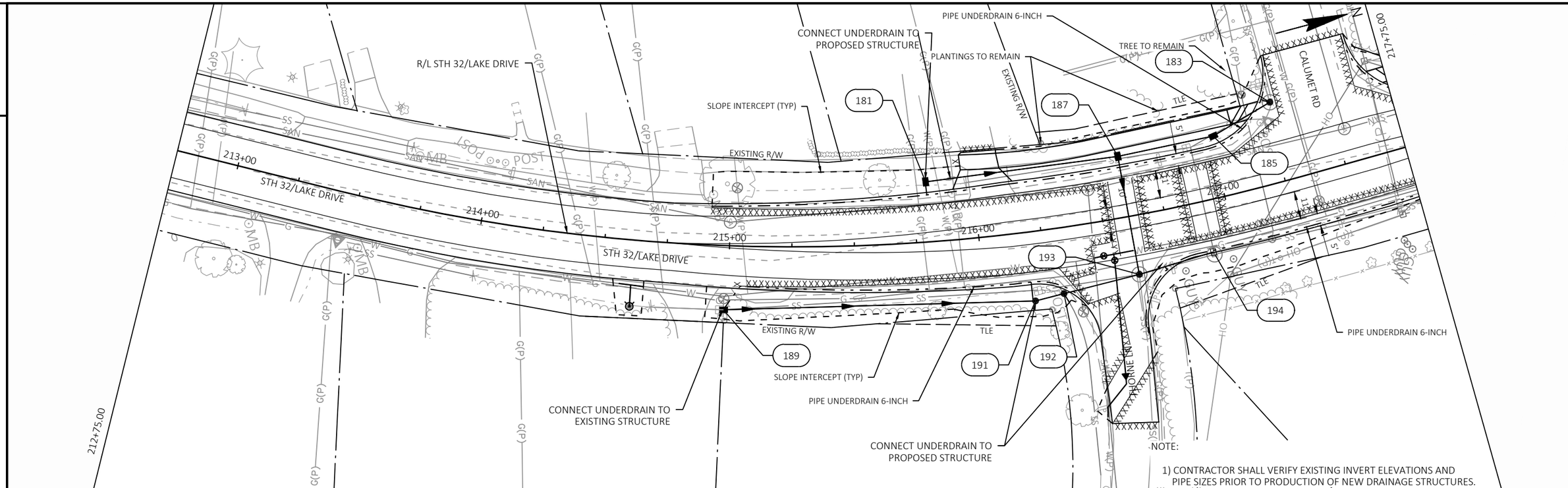
NOTE:

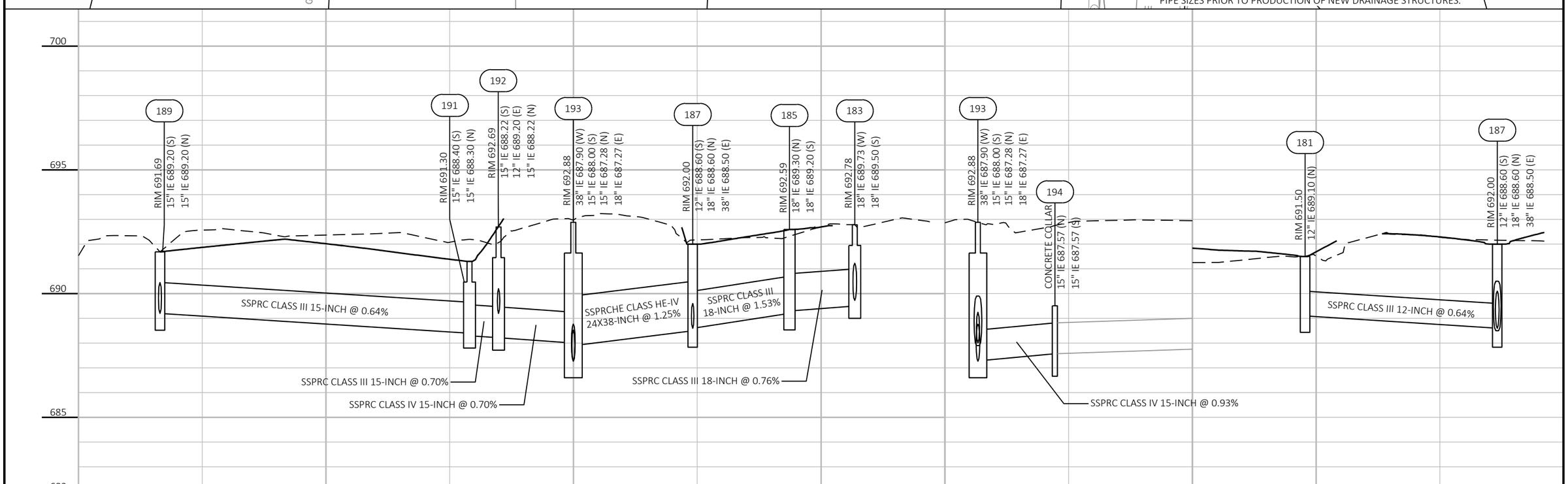
1) CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS AND PIPE SIZES PRIOR TO PRODUCTION OF NEW DRAINAGE STRUCTURES.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 138	E

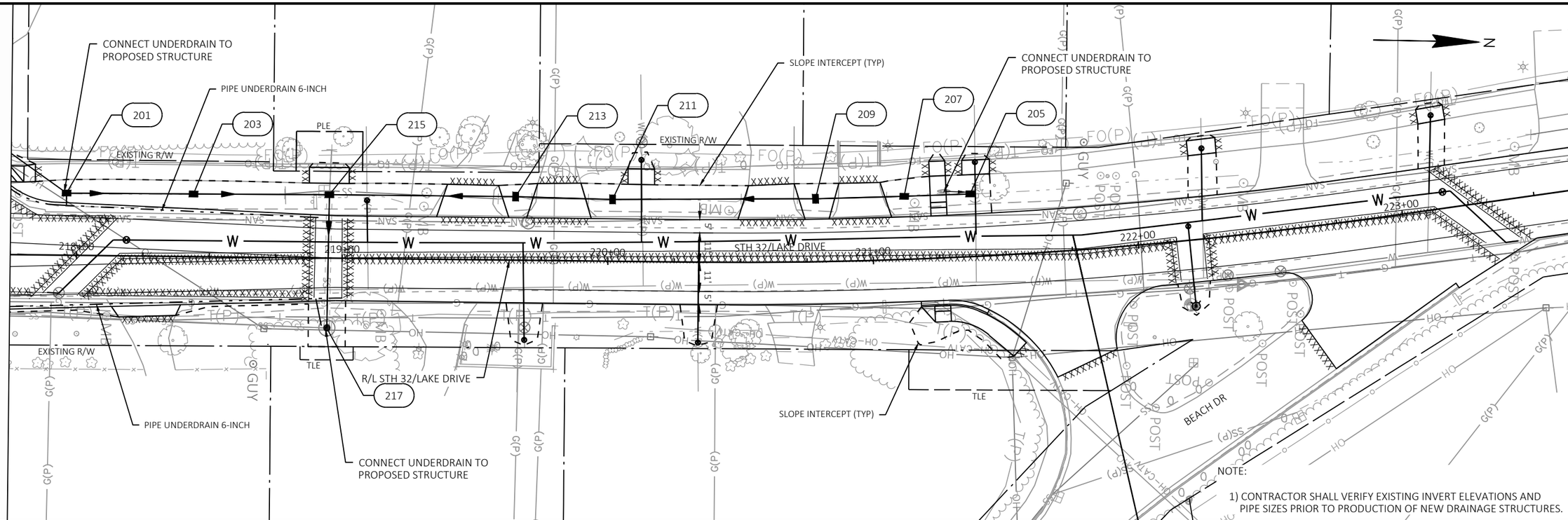
2





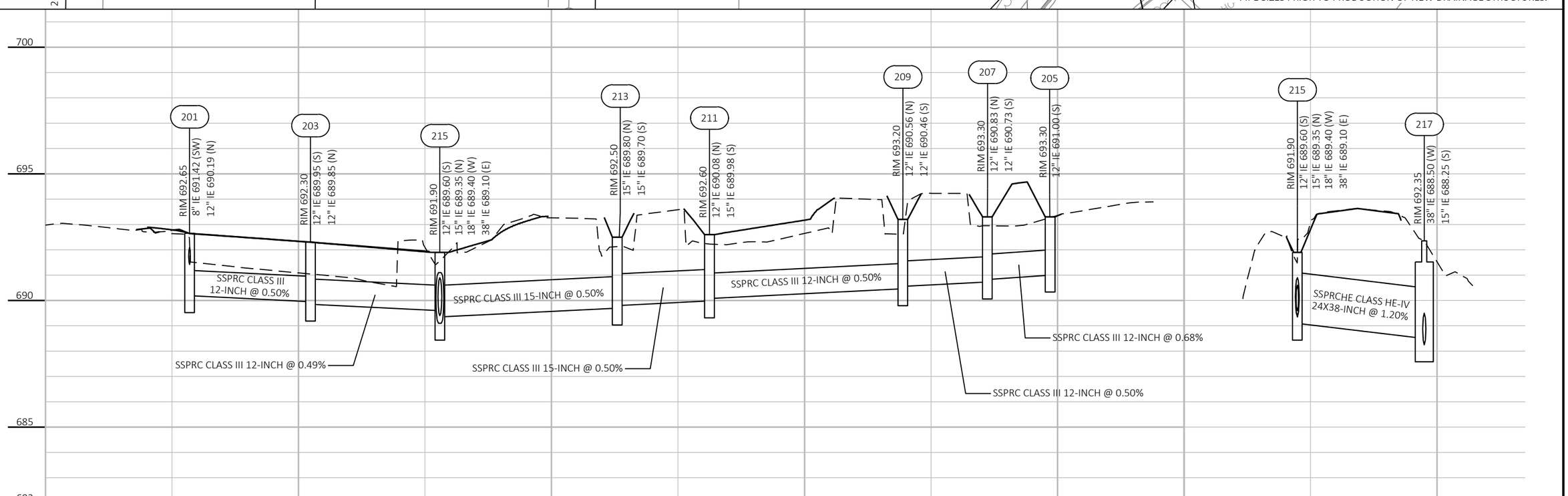
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 139	E

2

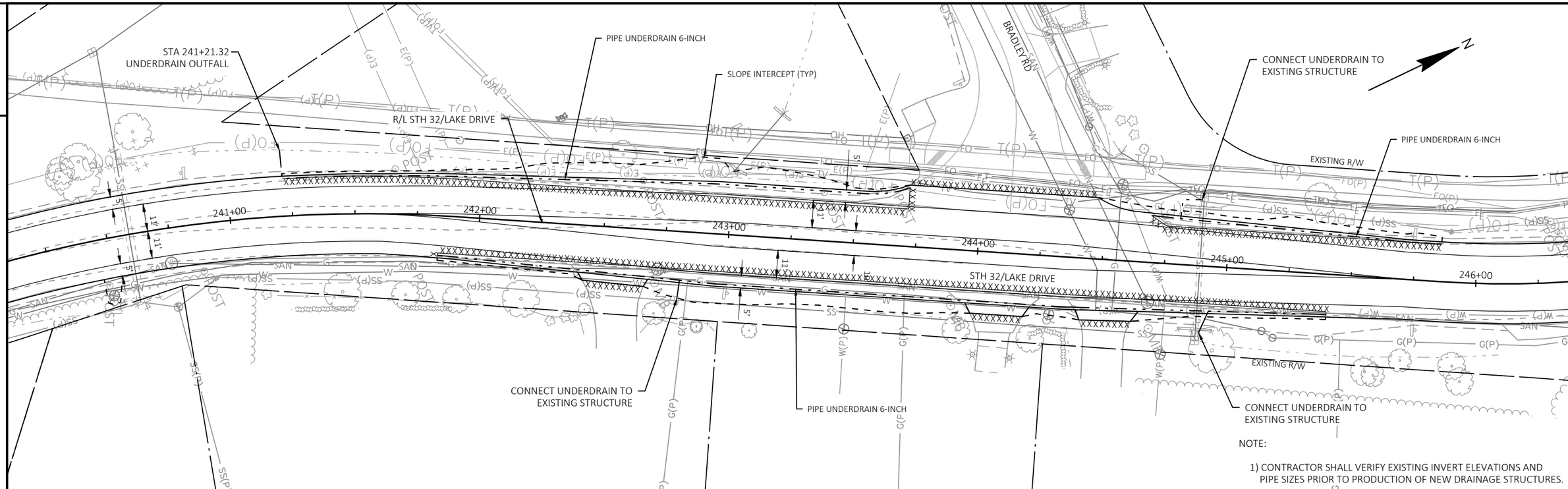


NOTE:

1) CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS AND PIPE SIZES PRIOR TO PRODUCTION OF NEW DRAINAGE STRUCTURES.



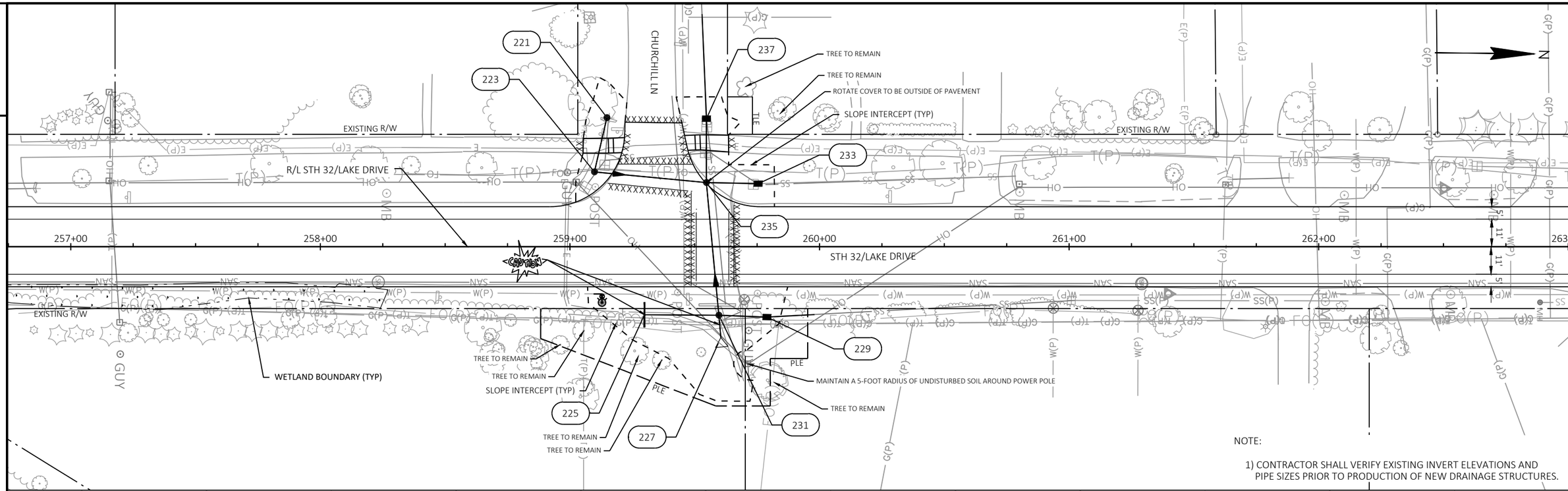
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 140	E



NOTE:

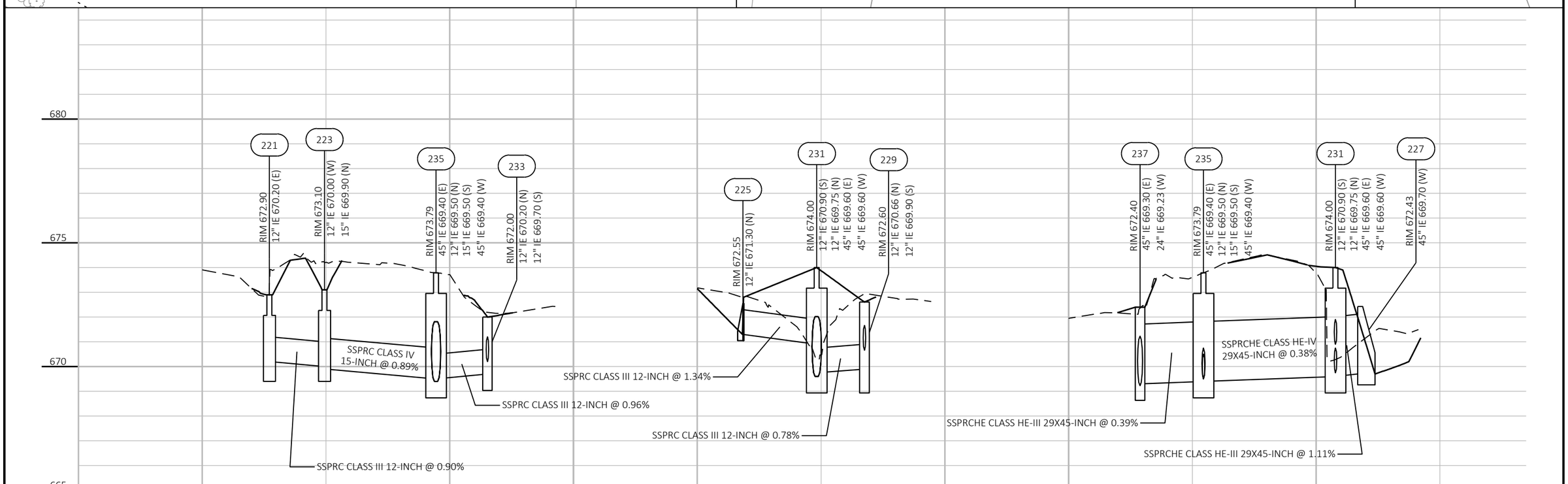
1) CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS AND PIPE SIZES PRIOR TO PRODUCTION OF NEW DRAINAGE STRUCTURES.

NO PROFILES THIS SHEET

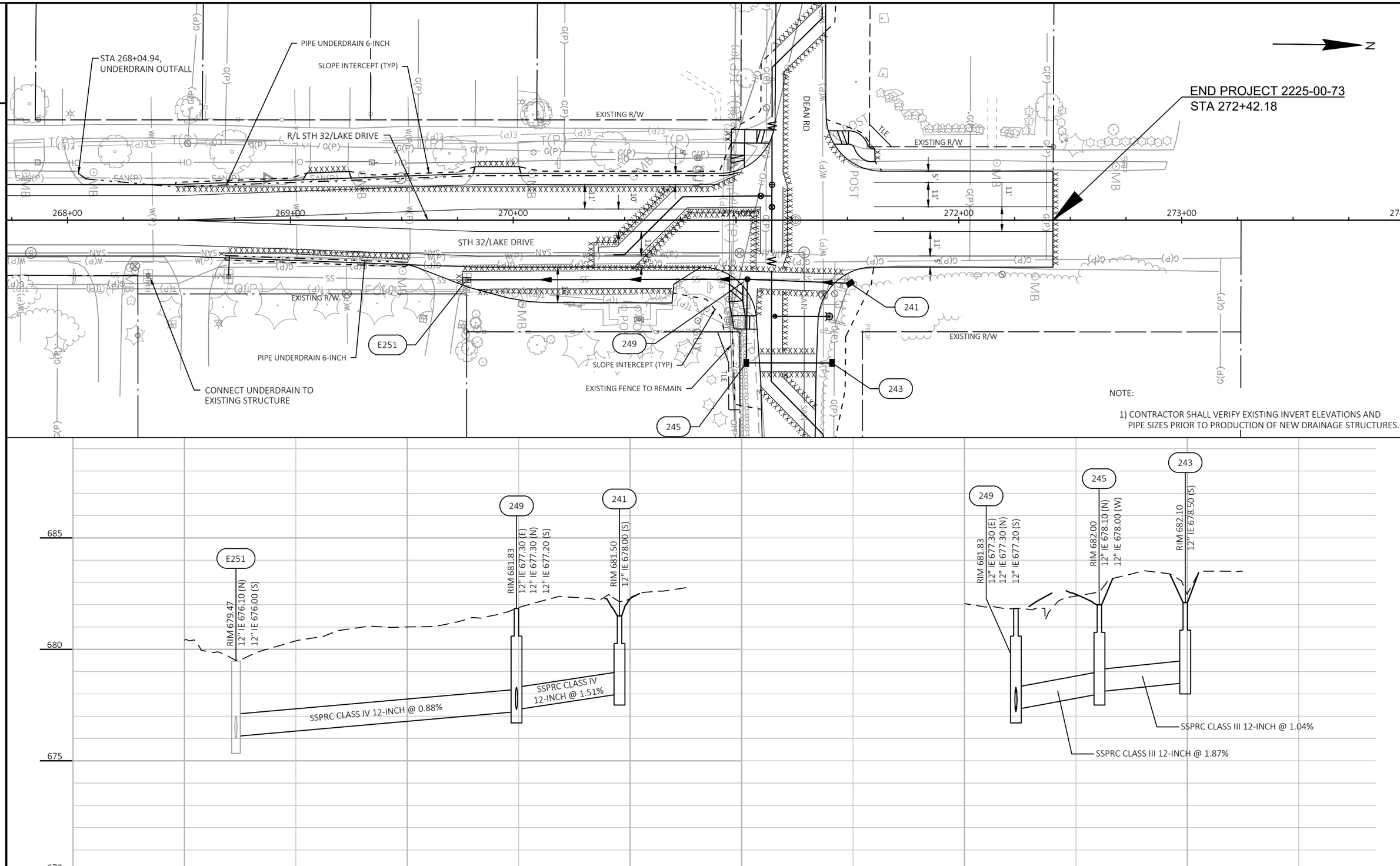


NOTE:

1) CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS AND PIPE SIZES PRIOR TO PRODUCTION OF NEW DRAINAGE STRUCTURES.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 142	E



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DRAINAGE PLAN	SHEET 143	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\022510-DR.DWG
LAYOUT NAME - DR(13)
PLOT DATE : 10/14/2024 6:47 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

WATERMAIN GENERAL NOTES

ALL CONSTRUCTION SHALL MEET STANDARDS IN THE CONTRACT DOCUMENTS, "WISCONSIN STANDARD SPECIFICATIONS FOR SEWER AND WATER" AND "DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION," LATEST EDITIONS AND AMENDMENTS.

CONTRACTOR SHALL SET BENCHMARKS AND STAKING NECESSARY TO ESTABLISH LINE AND GRADE FOR ALL WATERMAIN ITEMS INCIDENTAL TO THE WATERMAIN ITEMS.

NO TREES OF SHRUBS ARE TO BE REMOVED UNLESS INDICATED FOR REMOVAL BY THE ENGINEER OR OWNER.

THE INFORMATION IN THIS PLAN SET REPRESENTS THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IN THE FIELD VERIFICATION OF ALL INFORMATION.

THE LOCATIONS OF UTILITIES, AS NOTED ON THE PLANS ARE APPROXIMATE, THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. CONTRACTOR IS RESPONSIBLE FOR VERIFYING DEPTHS OF UTILITIES.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM THE ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE BACKFILLED WITH BACKFILL GRANULAR GRADE 1 CONFORMING TO SECTION 209 OF THE STANDARD SPECIFICATIONS.

CONTRACTOR SHALL MAINTAIN TRAFFIC ACCESS AT ALL TIMES.

EROSION CONTROL MEASURES ARE TO BE IN PLACE BEFORE WORK COMMENCES AND MAINTAINED DURING CONSTRUCTION. ALL EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE WDNR "TECHNICAL STANDARDS"

ALL WATER MAINS WITH LESS THAN 5' OF COVER SHALL BE INSULATED TRENCHWALL TO TRENCHWALL WITH 2" RIGID BLUE STYROFOAM.

RETURN ALL EXISTING MANHOLE CASTINGS, INLET CASTINGS, AND HYDRANTS PLANNED TO BE ABANDONED TO OWNER.

CONTRACTOR SHALL ABANDON HYDRANTS 2' BELOW THE FINISH GRADE SURFACE AND FILL WITH GRANULAR MATERIAL. THIS WORK IS INCIDENTAL TO THE PROJECT.

COST OF ALL FITTINGS TO CONNECT TO EXISTING PIPES ARE INCIDENTAL TO THE PIPE ITEM.

HYDRANTS CONNECTED TO THE ABANDONED WATER MAIN SHALL BE REMOVED AND THE HYDRANT LEAD BULLKHEADED. COST TO REMOVE HYDRANTS CONNECTED TO THE ABANDONED WATER MAIN IS INCIDENTAL TO THE HYDRANT ITEM.

THE VALVE BOXES OF EXISTING VALVES CONNECTED TO THE ABANDONED WATER MAIN SHALL BE REMOVED. COST TO REMOVE EXISTING VALVE BOXES CONNECTED TO THE ABANDONED WATER MAIN IS INCIDENTAL TO THE VALVE ITEMS.

ADJUSTMENT OF EXISTING ACTIVE AND PROPOSED VALVES IS INCIDENTAL TO THE VALVE ITEM.

BACKFILL GRANULAR GRADE 1 CONFORMING TO SECTION 209 OF THE STANDARD SPECIFICATIONS IS REQUIRED FOR ALL WATER MAIN, AND LATERALS INSTALLED OR RELAYED UNDER THIS CONTRACT.

CONTRACTOR SHALL FOLLOW ALL REGULATORY REQUIREMENTS REGARDING THE HANDLING, TRANSPORTING, AND DISPOSING OF LEAD WATER SERVICES.

SUPPORTING UTILITIES DURING WATER MAIN CONSTRUCTION IS INCIDENTAL TO WATER MAIN PIPE.

MAIL BOXES, DECORATIVE ROCKS, FLOWERS, WOOD FENCES OR TIMBERS, PLANTERS AND OTHER MISCELLANEOUS ITEMS ALONG THE ROADWAY WITHIN THE WORK ZONE SHALL BE CAREFULLY REMOVED, SALVAGED AND PLACED OUT OF THE CONSTRUCTION ZONE AT A LOCATION REQUESTED BY THE PROPERTY OWNER. THIS WORK SHALL BE COMPLETED UNDER ASSOCIATED BID ITEMS, OTHERWISE THIS WORK SHALL INCIDENTAL TO THIS CONTRACT.

REMOVAL/ABANDONMENT OF EXISTING WATER MAIN INCLUDING ALL PIPES, FITTINGS, HYDRANTS, VALVES AND STRUCTURES IS INCIDENTAL TO NEW UTILITY WORK. BACKFILL TRENCHES RESULTING FROM REMOVAL/ABANDONMENTS WITH BACKFILL GRANULAR GRADE 1 CONFORMING TO SECTION 209 OF THE STANDARD SPECIFICATIONS, INCIDENTAL TO NEW UTILITY WORK.

ALL PROPOSED WATER SERVICES SHALL BE 1.25-INCH UNLESS OTHERWISE CALLED OUT ON THE PLANS.

IF DEWATERING IS NECESSARY, FOLLOW PROCEDURES SET FORTH IN SECTION 02140-DEWATERING IN THE PROJECT SPECIFICATIONS AND THE FOLLOWING WDNR TECHNICAL STANDARDS.

WDNR TECHNICAL STANDARD 1061 FOR DEWATERING –
http://dnr.wi.gov/runoff/pdf/stormwater/techstds/erosion/Dewatering_1061.pdf

WDNR TECHNICAL STANDARD 1051 FOR POLYMER –
http://dnr.wi.gov/runoff/pdf/stormwater/techstds/erosion/Dewatering_1061.pdf

LEGEND

EXISTING WATER MAIN, HYDRANT, VALVE & CURB STOP
PROPOSED WATER MAIN, HYDRANT, VALVE & CURB STOP
HYDRANT EXISTING, PROPOSED
WATER VALVE EXISTING, PROPOSED
CURB STOP EXISTING, PROPOSED
ABANDON WATERMAIN

WISCONSIN
ROBERT
MAAS
E-100943
WAUKESHA
WI
PROFESSIONAL ENGINEER

Robert Maas
10/15/24

kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

PROJECT:
ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:
VILLAGE OF FOX POINT

CLIENT:
VILLAGE OF FOX POINT

RELEASE:
CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

HORZ. SCALE: N.T.S.
0 10 20 30 40

SEAL:
all in

SHEET:
WATER MAIN
GENERAL NOTES

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:
144 --

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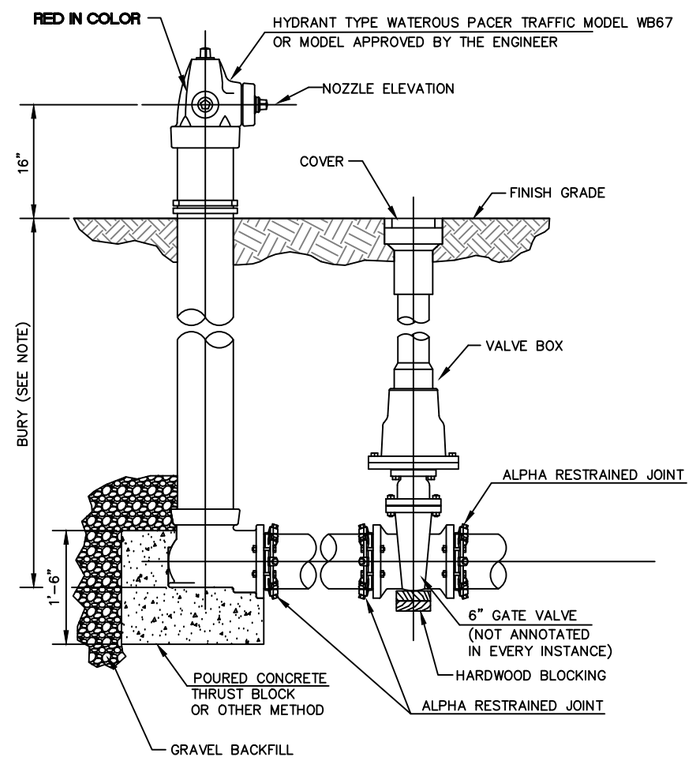

NOTE:
BURY IS THE DISTANCE FROM FINISH GRADE TO BOTTOM OF CONNECTING PIPE.

1 HYDRANT
N.T.S.

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PROJECT:
ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:
VILLAGE OF FOX POINT

CLIENT:
VILLAGE OF FOX POINT

RELEASE:
CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

HORZ. SCALE: N.T.S.
0 10 20 30 40

SEAL:
all in

SHEET:
WATER MAIN CONSTRUCTION DETAILS

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:
145 --

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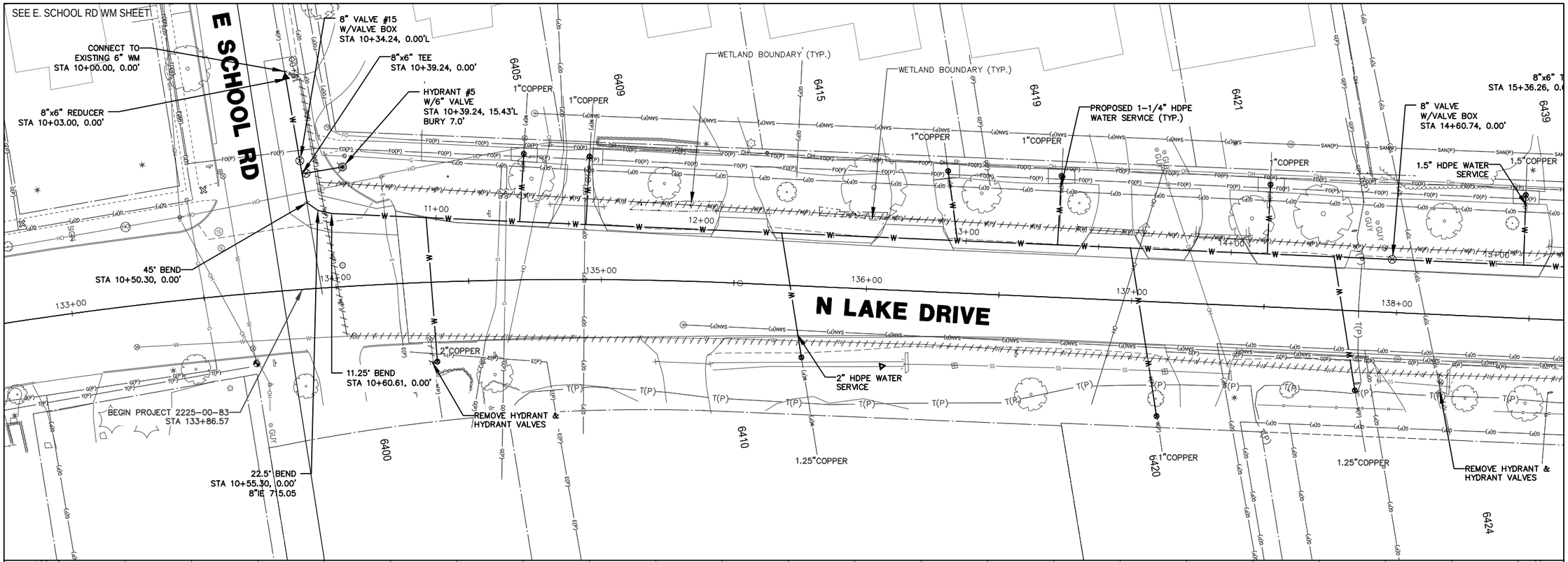

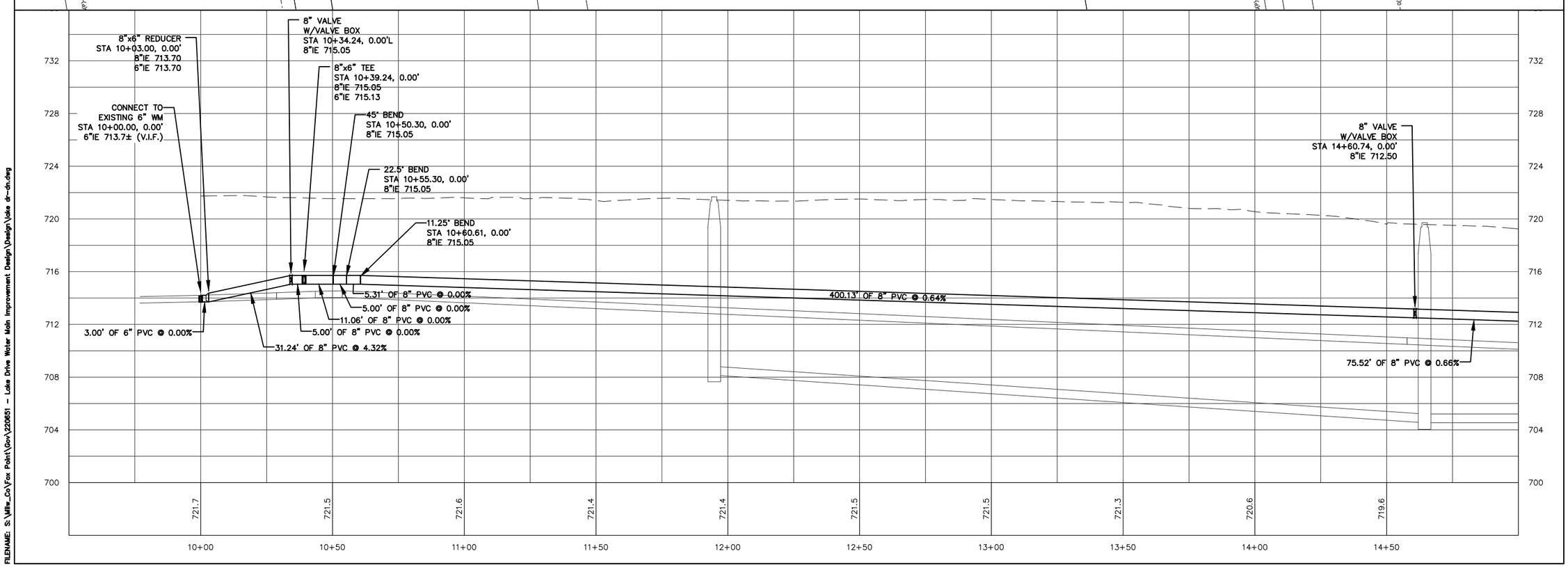

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PROJECT:
ID 2225-00-83
STH 32 SCHOOL RD TO DEAN RD WATERMAIN

LOCATION:
VILLAGE OF FOX POINT

CLIENT:
VILLAGE OF FOX POINT

RELEASE:
CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 5'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

SHEET:
N. LAKE DRIVE WATER MAIN

PROJECT MANAGER: YA
PROJECT NUMBER: 22.0651.01
DATE: 10/15/24

SHEET NUMBER:
146 --

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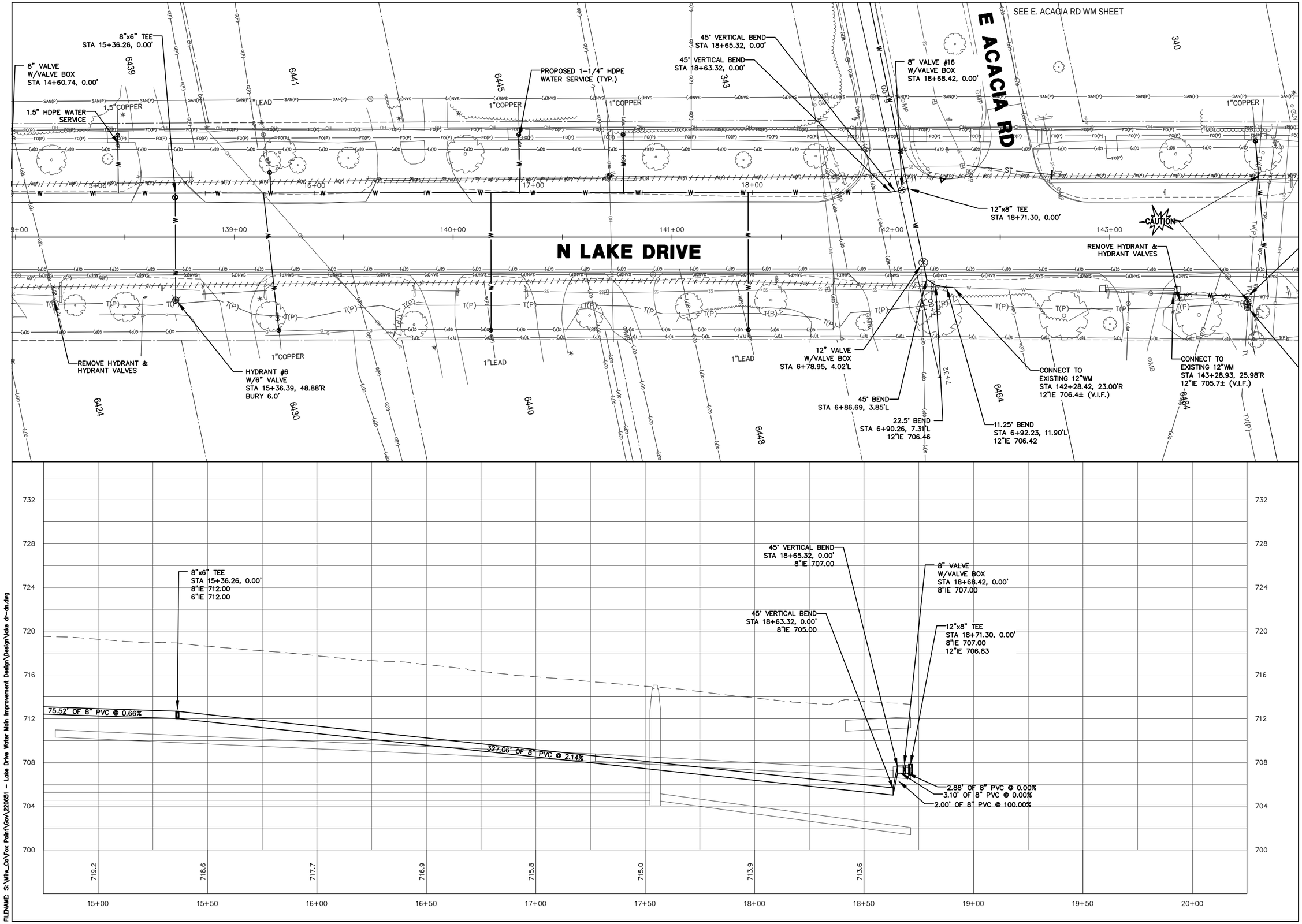

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PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 5'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

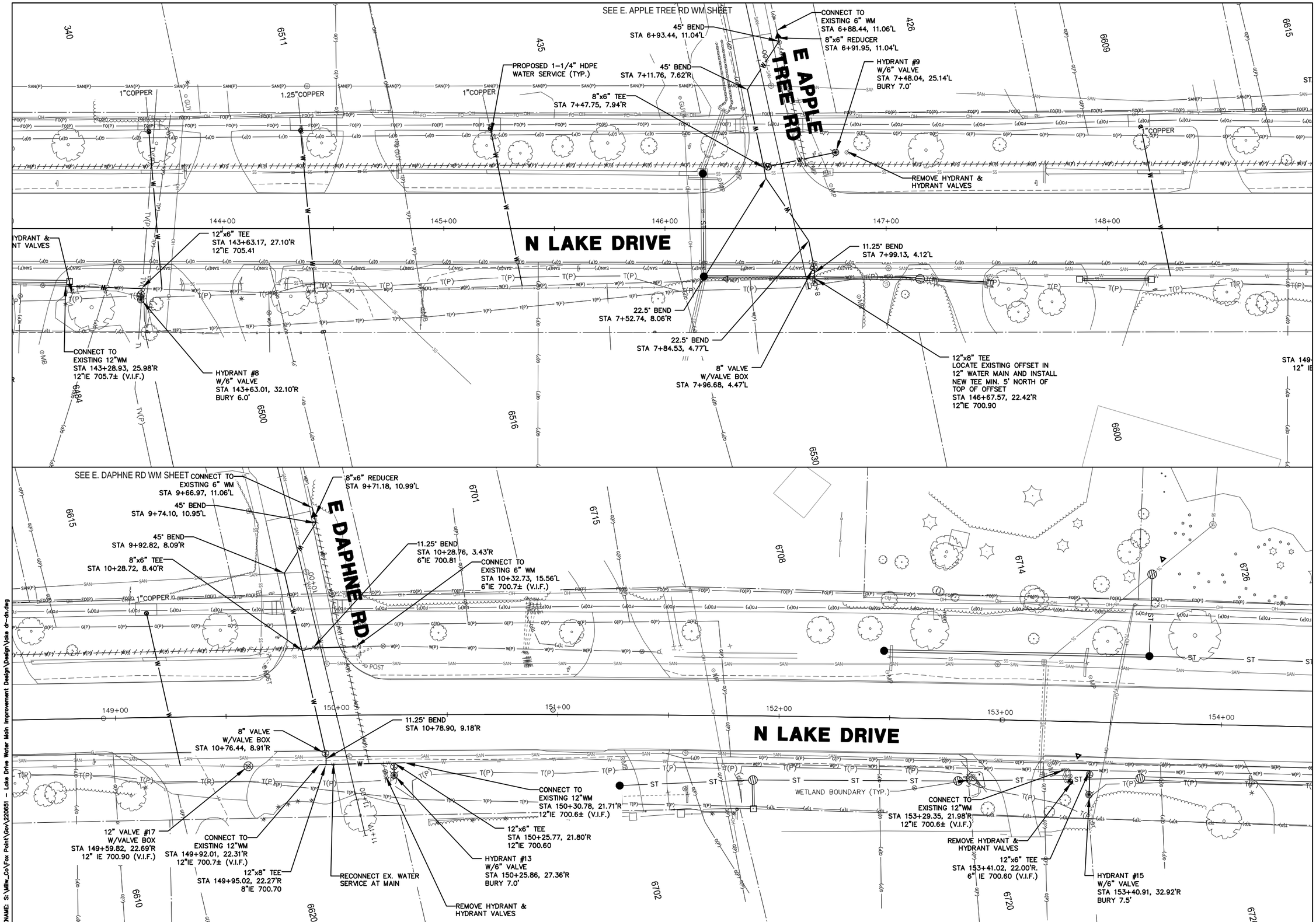
SHEET:

N. LAKE DRIVE
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:

147 --



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PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 5'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

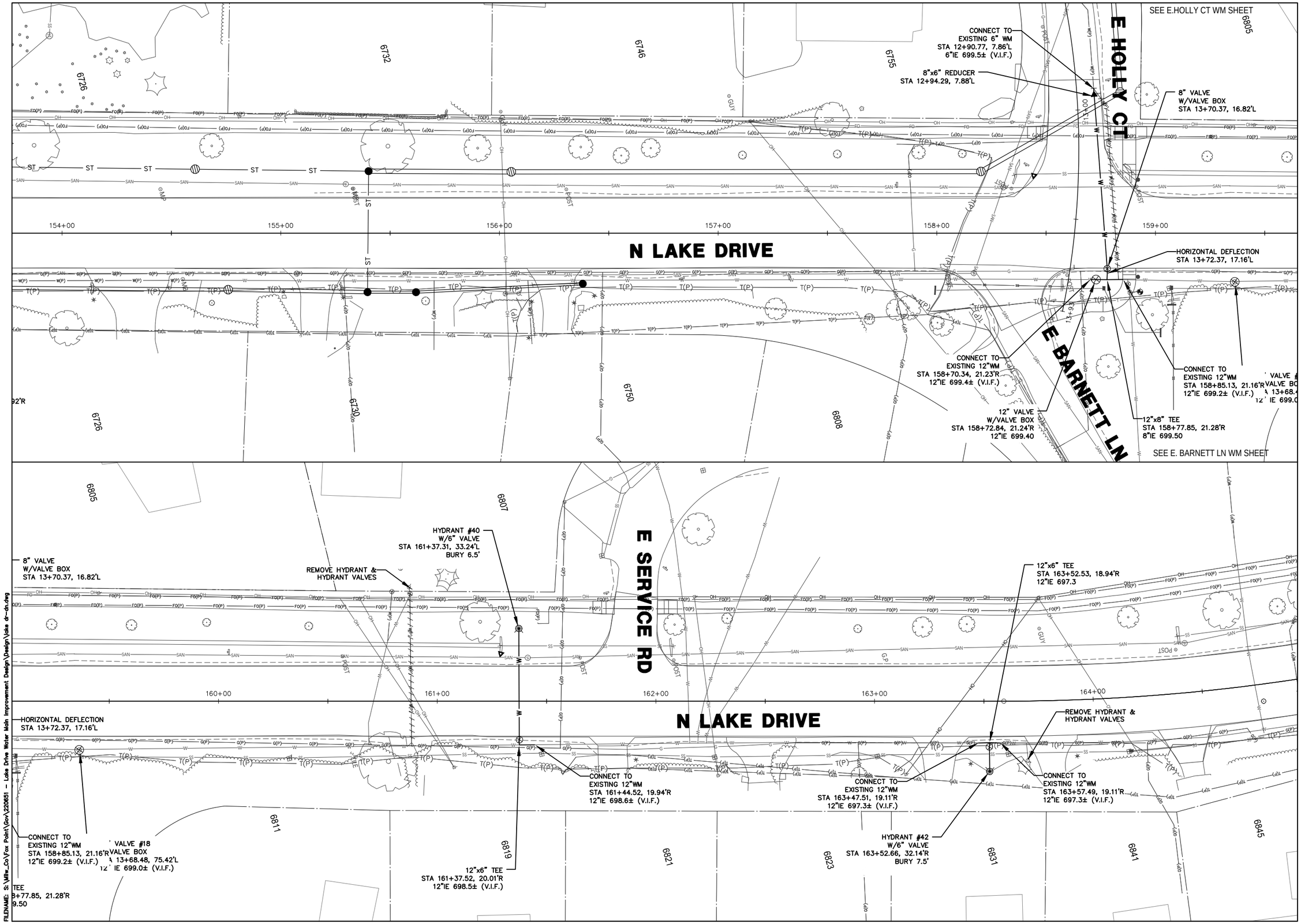
SHEET:

N. LAKE DRIVE
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:

148 --



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PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 5'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

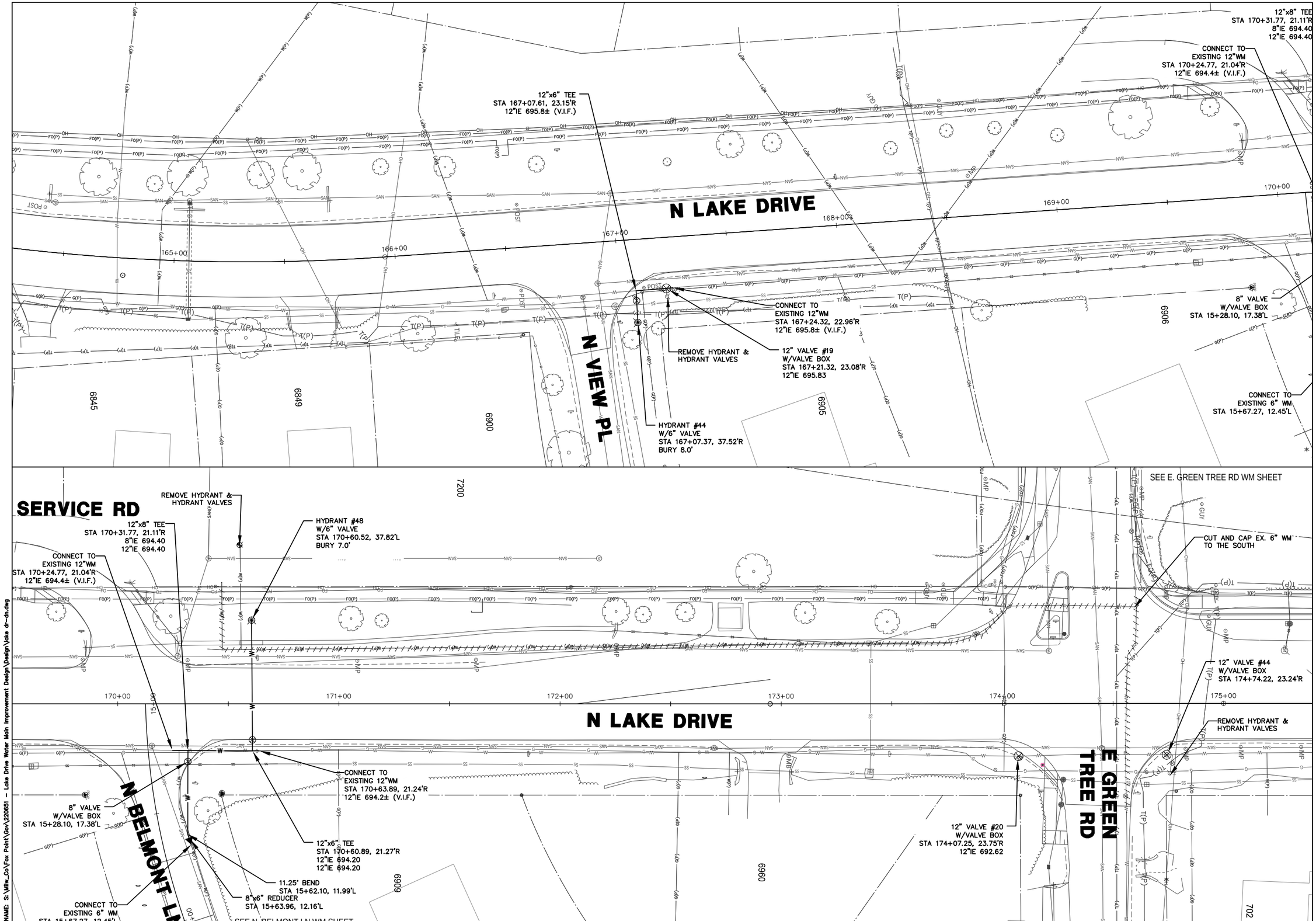
SHEET:

N. LAKE DRIVE
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:

149 --



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PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PSAE
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 5'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

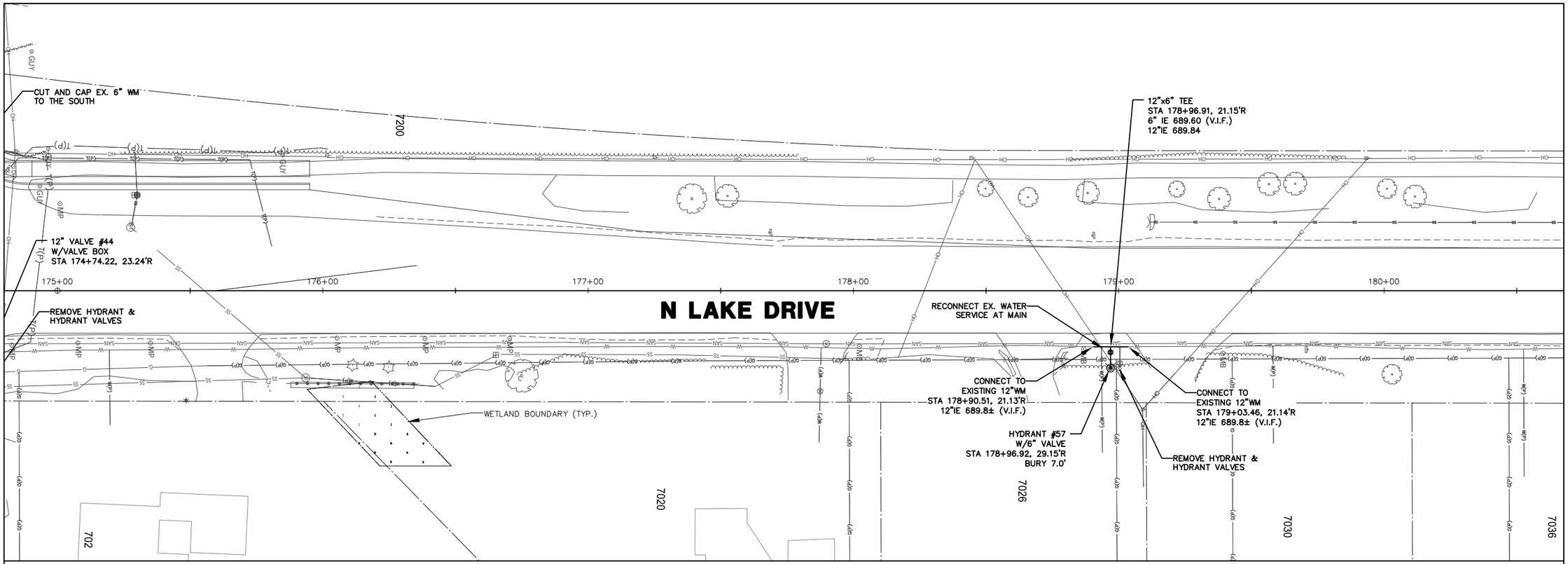
SHEET:

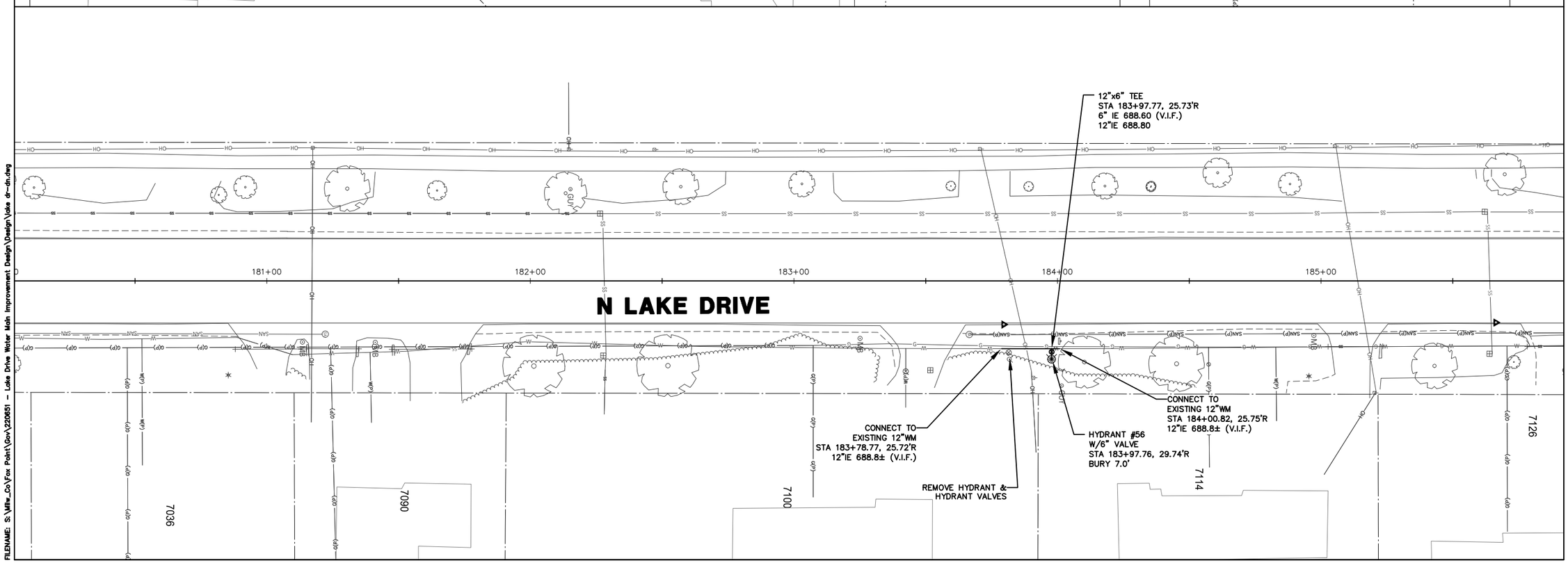
N. LAKE DRIVE
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:

150 --





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Milwaukee, Wisconsin 53217
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PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 5'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

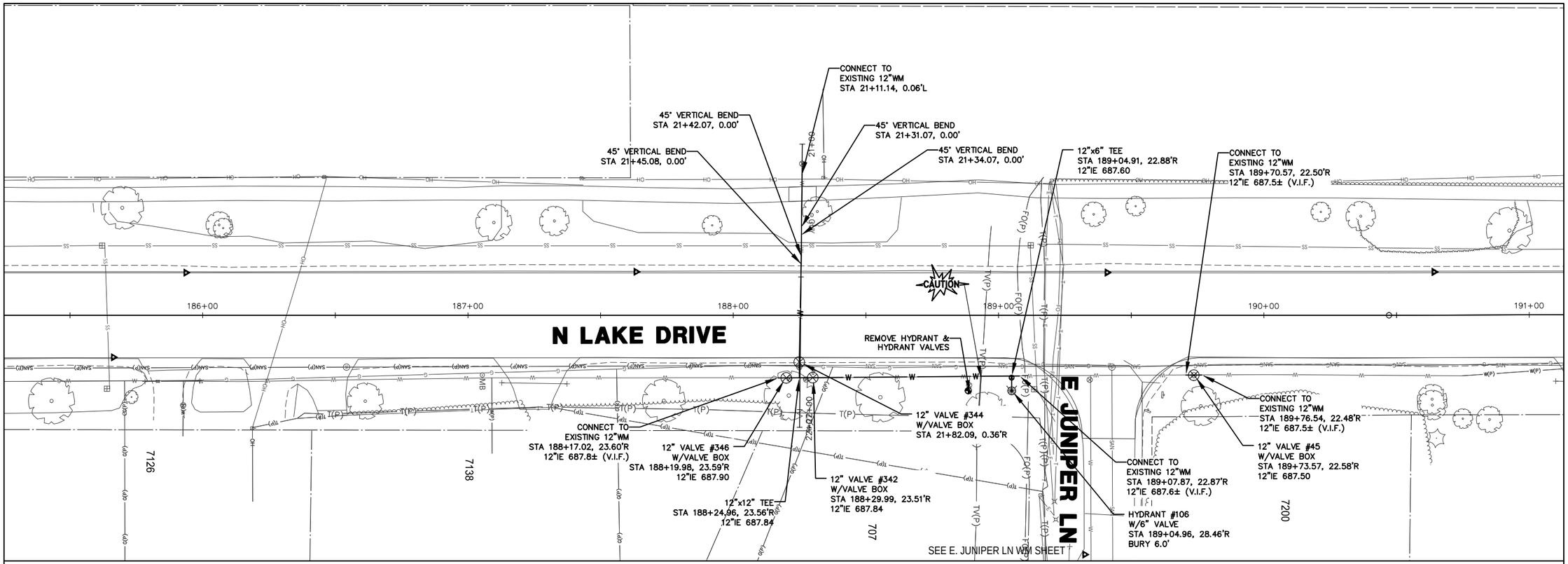
SHEET:

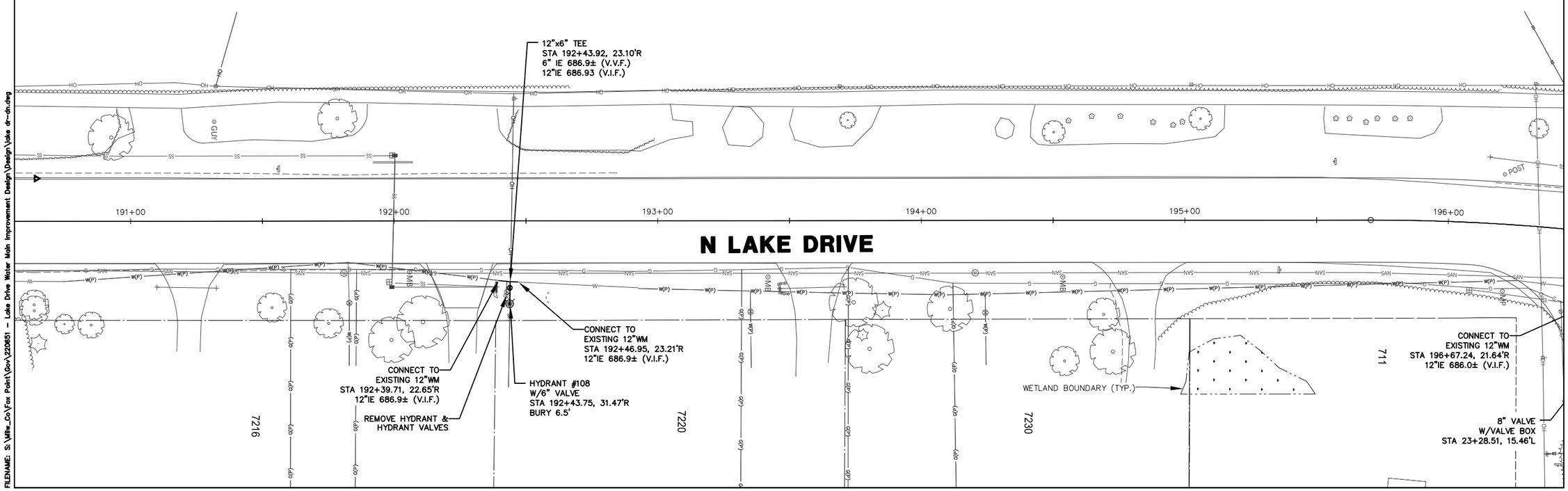
N. LAKE DRIVE
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:

151 --





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PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 5'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

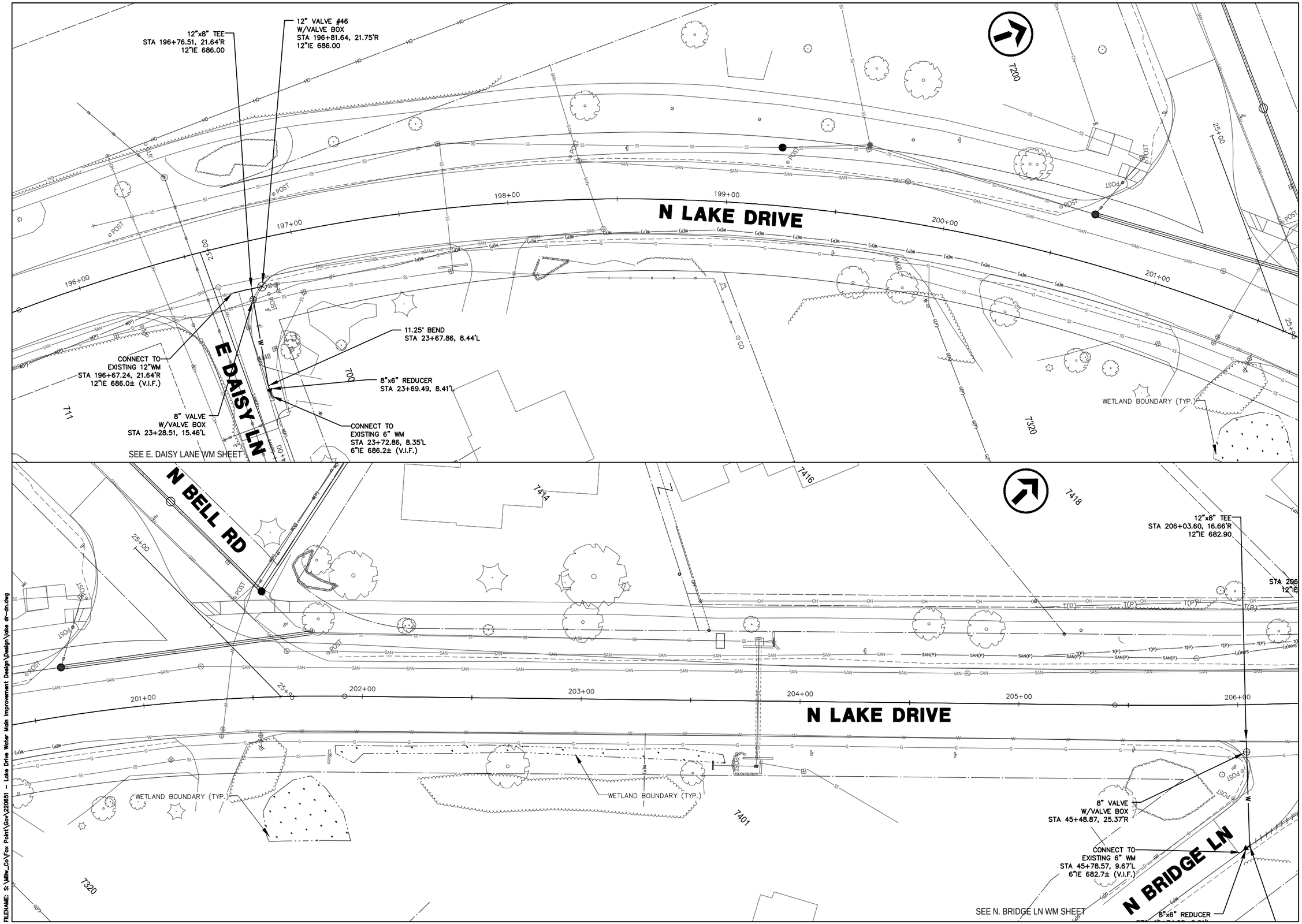
SHEET:

N. LAKE DRIVE
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:

152 --



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PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

HORZ. SCALE: 1" = 2'

0 15 30 40

SEAL:

all in

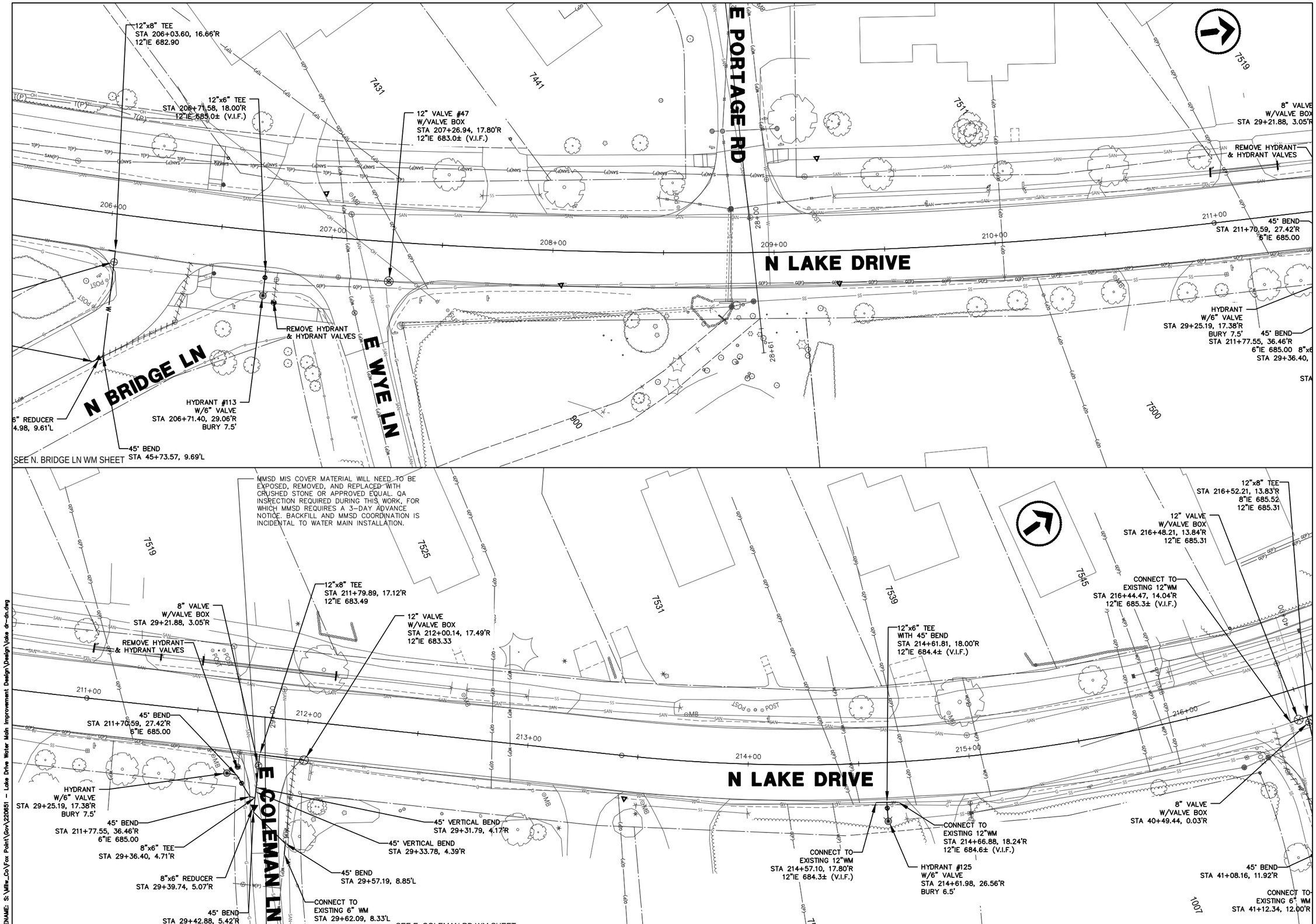
SHEET:

N. LAKE DRIVE
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:

153 --



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PROJECT:
ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:
VILLAGE OF FOX POINT

CLIENT:
VILLAGE OF FOX POINT

RELEASE:
CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

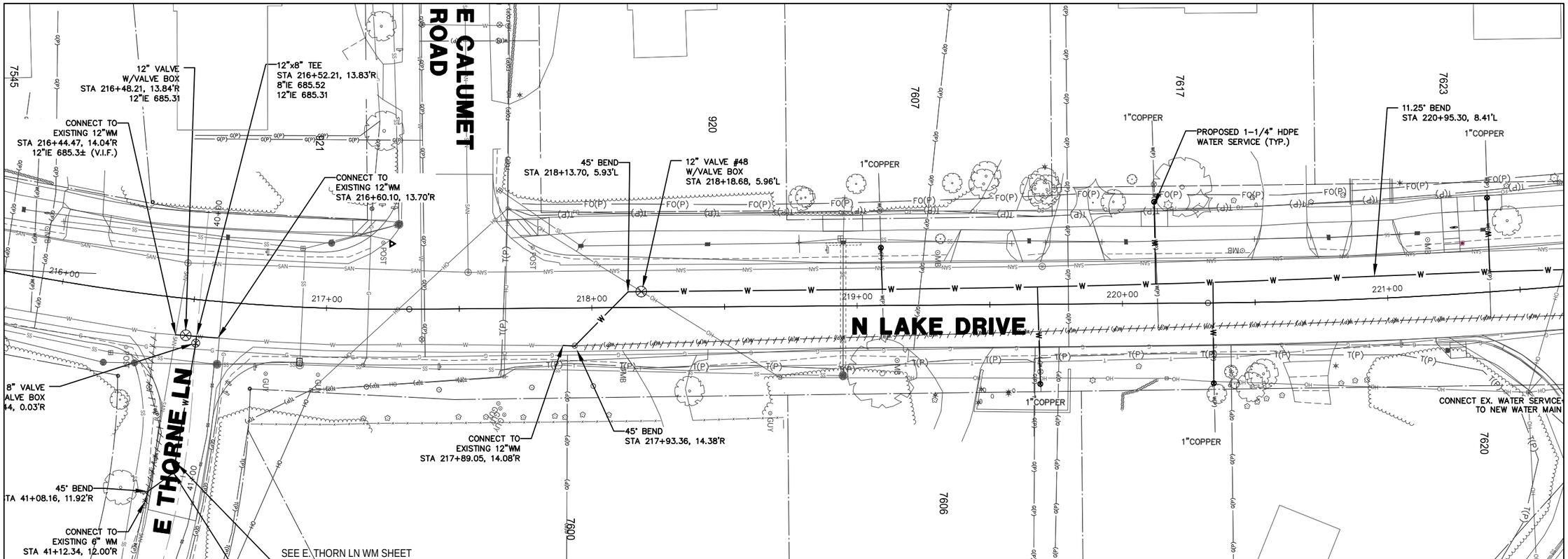
SEAL:

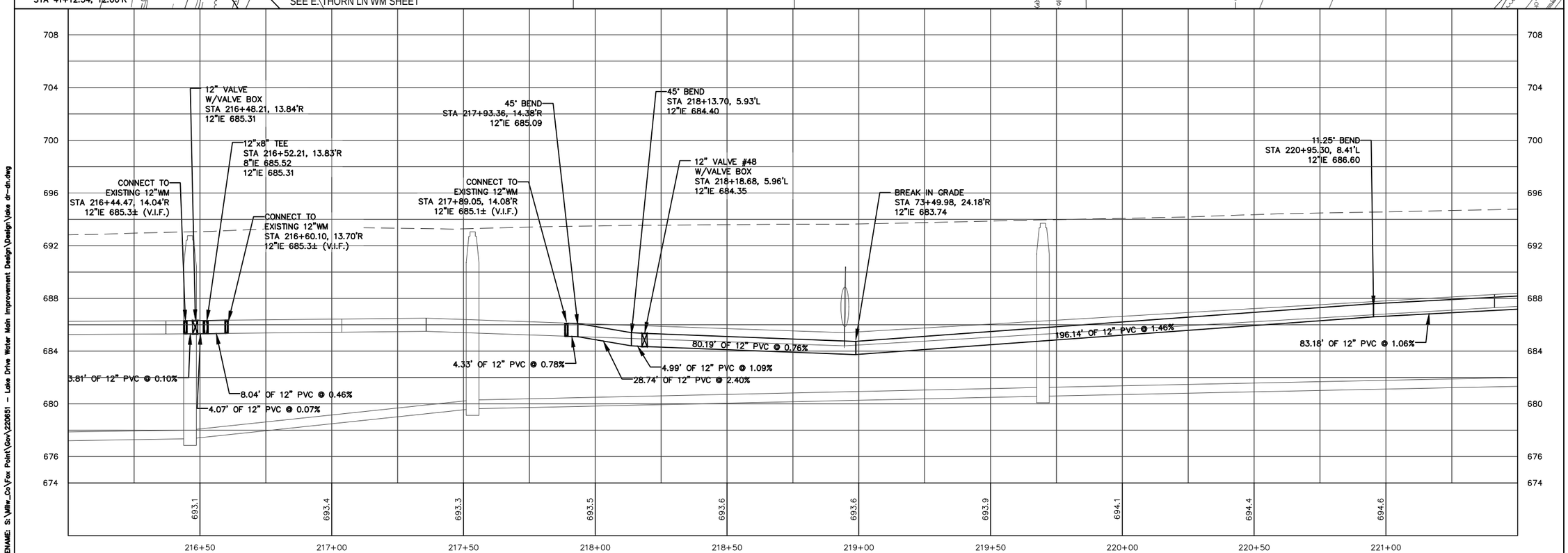
all in

SHEET:
N. LAKE DRIVE
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:
154





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Milwaukee, Wisconsin 53217
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PROJECT:
ID 2225-00-83
STH 32 SCHOOL RD TO DEAN RD WATERMAIN

LOCATION:
VILLAGE OF FOX POINT

CLIENT:
VILLAGE OF FOX POINT

RELEASE:
CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

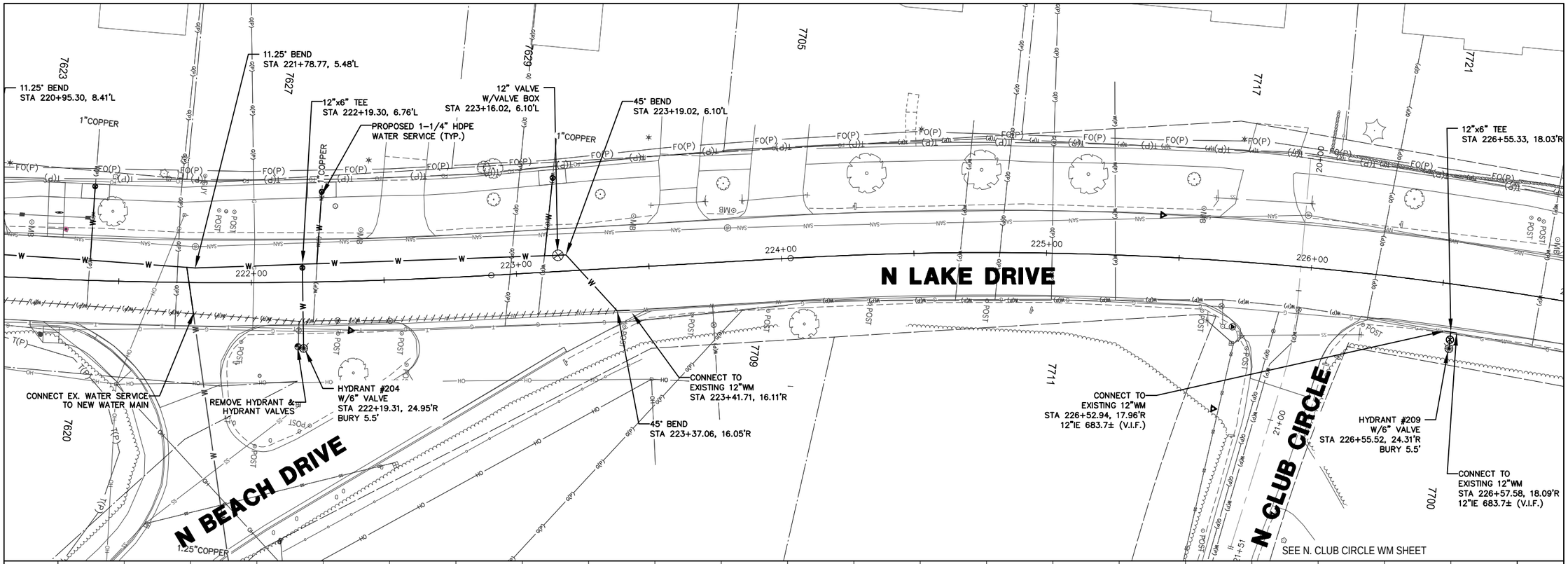
SEAL:

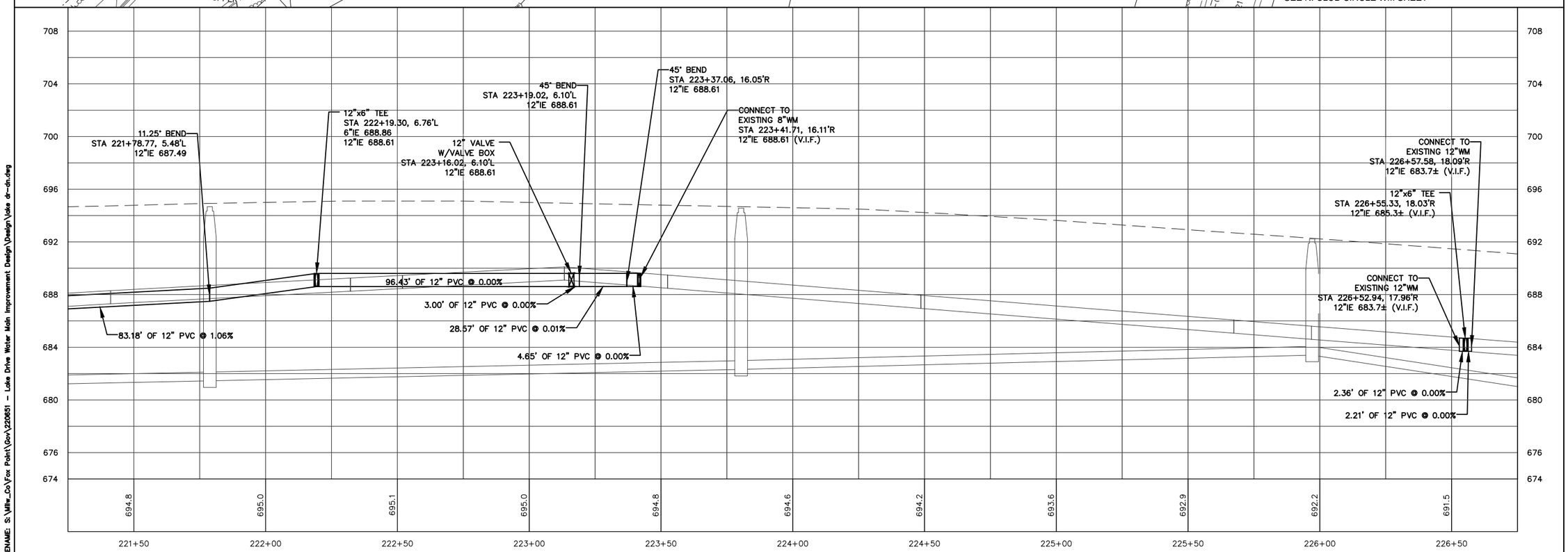
all in

SHEET:
N. LAKE DRIVE WATER MAIN

PROJECT MANAGER: YA
PROJECT NUMBER: 22.0651.01
DATE: 10/15/24

SHEET NUMBER:
155





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7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
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PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

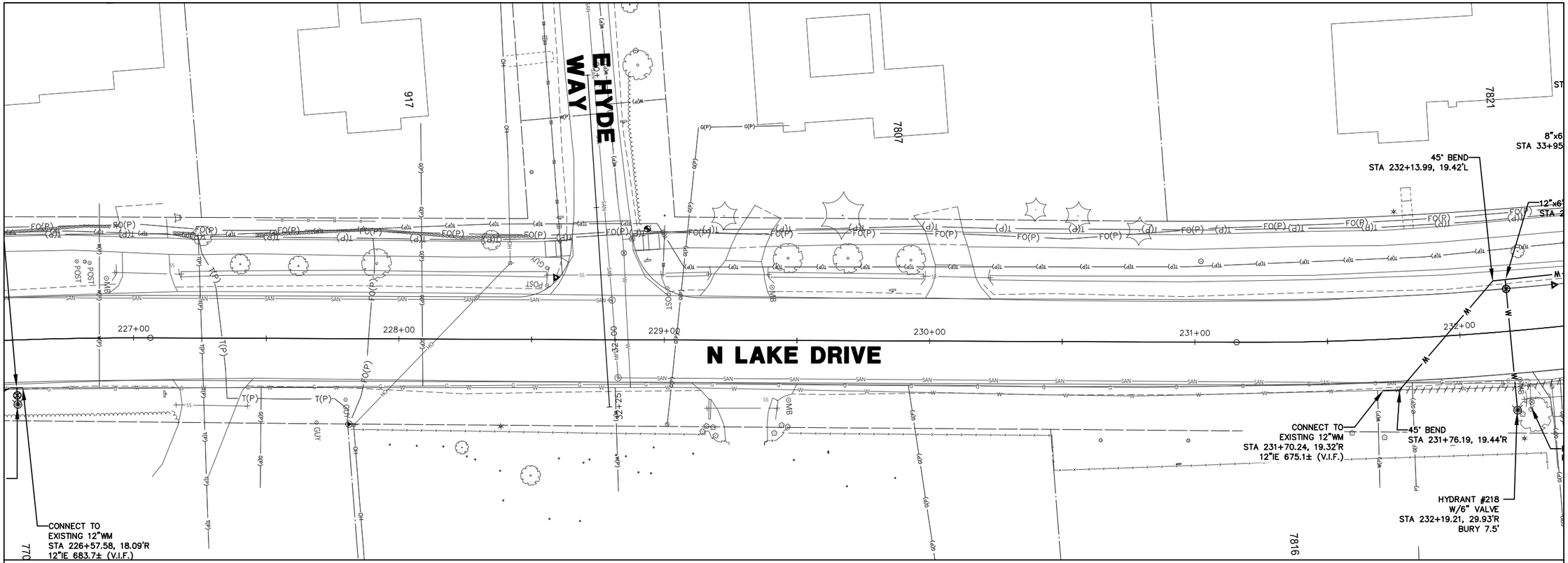
SHEET:

N. LAKE DRIVE
WATER MAIN

PROJECT MANAGER: YA
PROJECT NUMBER: 22.0651.01
DATE: 10/15/24

SHEET NUMBER:

156 --



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kapurinc.com

PROJECT:
ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:
VILLAGE OF FOX POINT

CLIENT:
VILLAGE OF FOX POINT

RELEASE:
CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

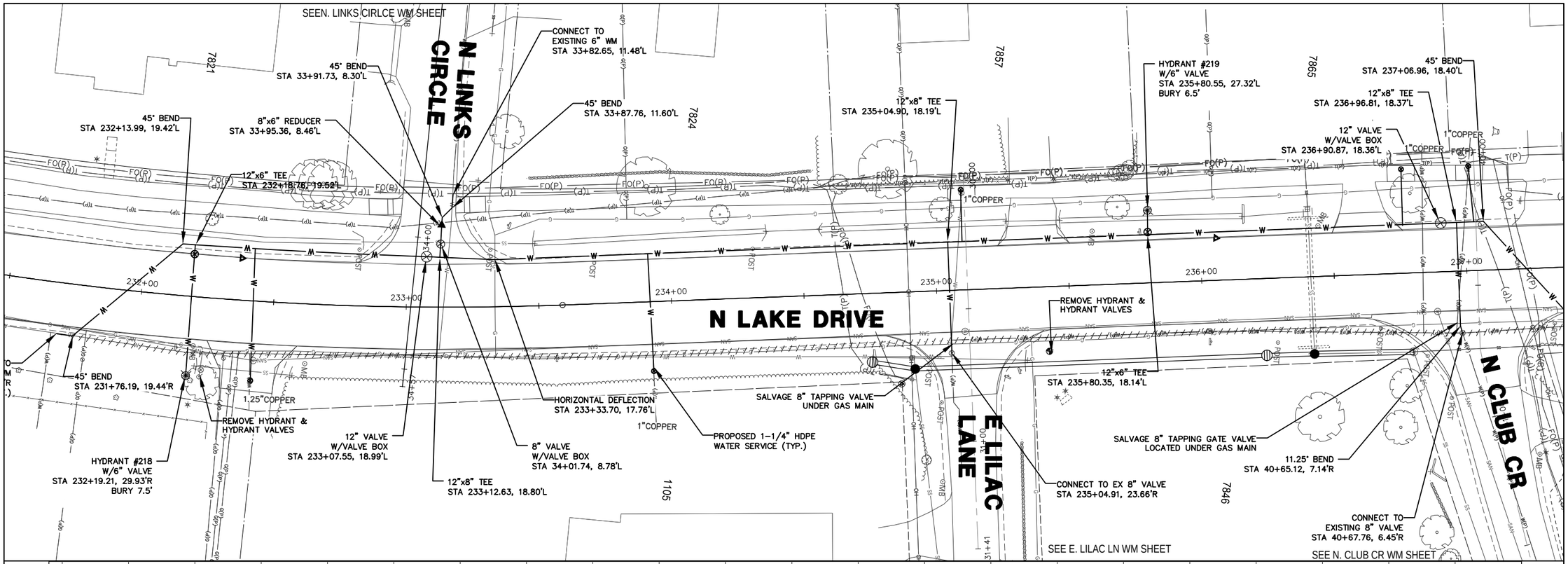
SEAL:

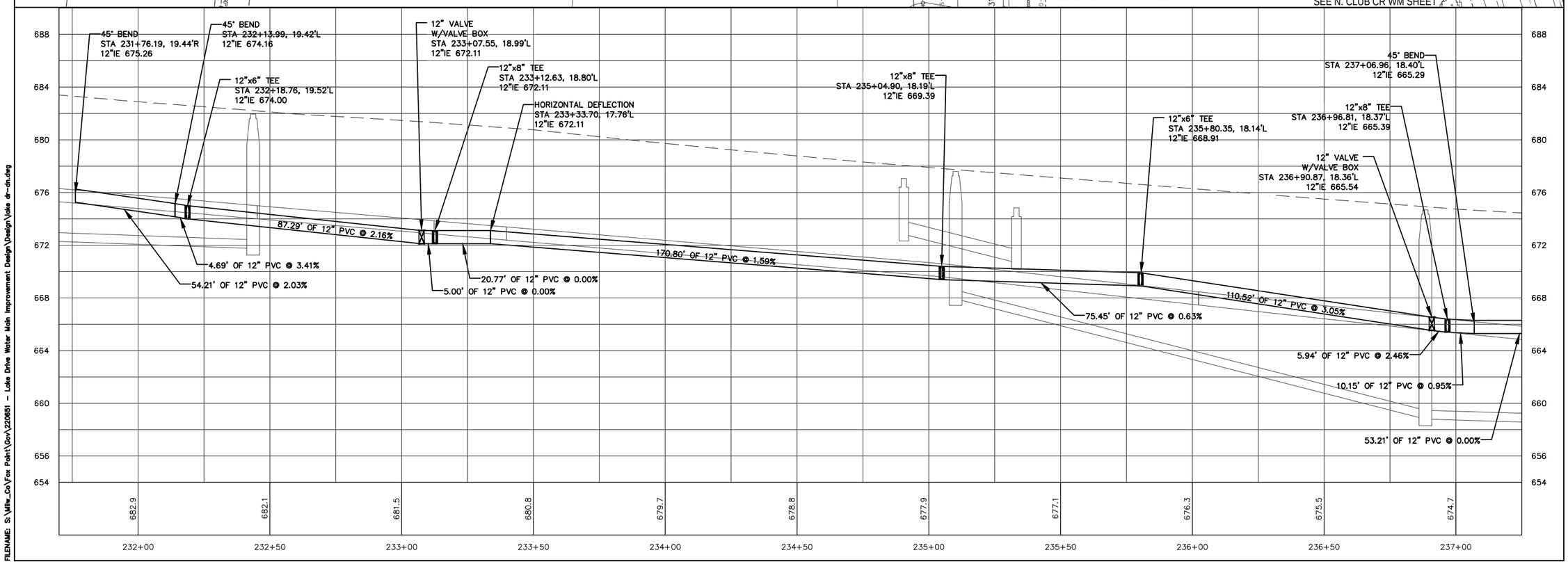
all in

SHEET:
N. LAKE DRIVE
WATER MAIN

PROJECT MANAGER: YA
PROJECT NUMBER: 22.0651.01
DATE: 10/15/24

SHEET NUMBER:
157 --





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PROJECT:
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STH 32 SCHOOL RD
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WATERMAIN

LOCATION:
VILLAGE OF FOX POINT

CLIENT:
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1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

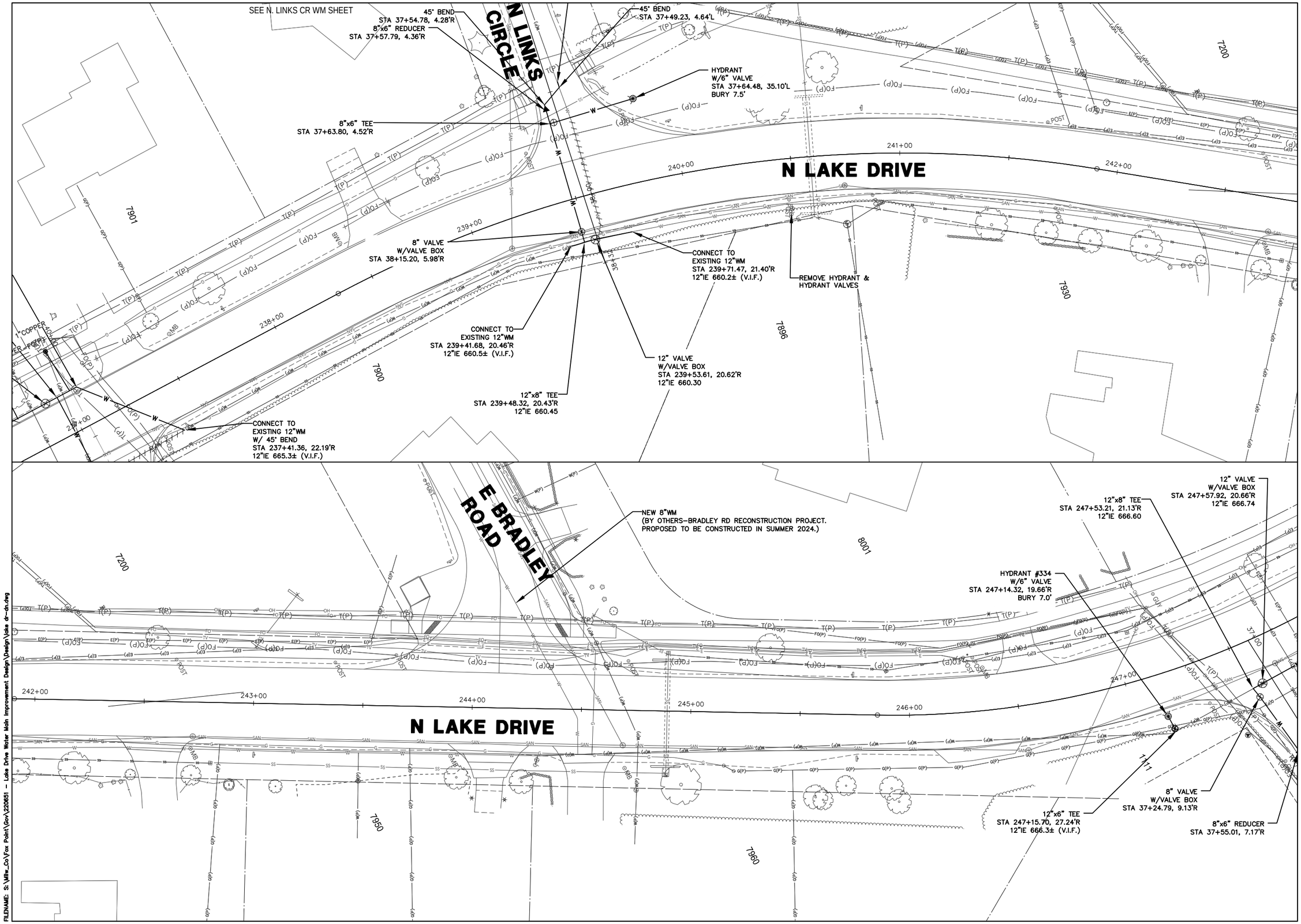
SEAL:

all in

SHEET:
N. LAKE DRIVE
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:
158 --



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LOCATION:
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VILLAGE OF FOX POINT

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4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

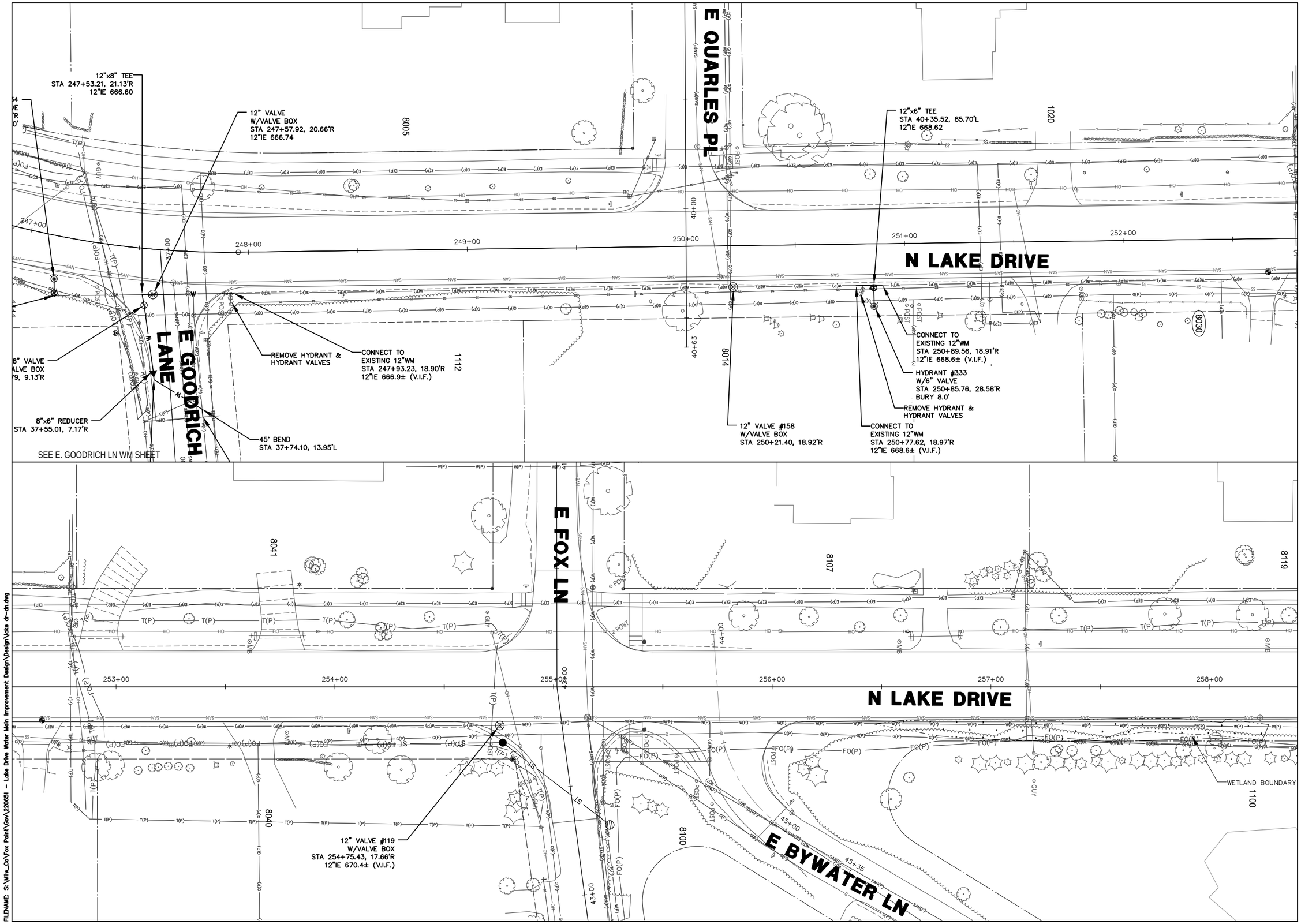
SEAL:

all in

SHEET:
N. LAKE DRIVE
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:
159 --



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kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

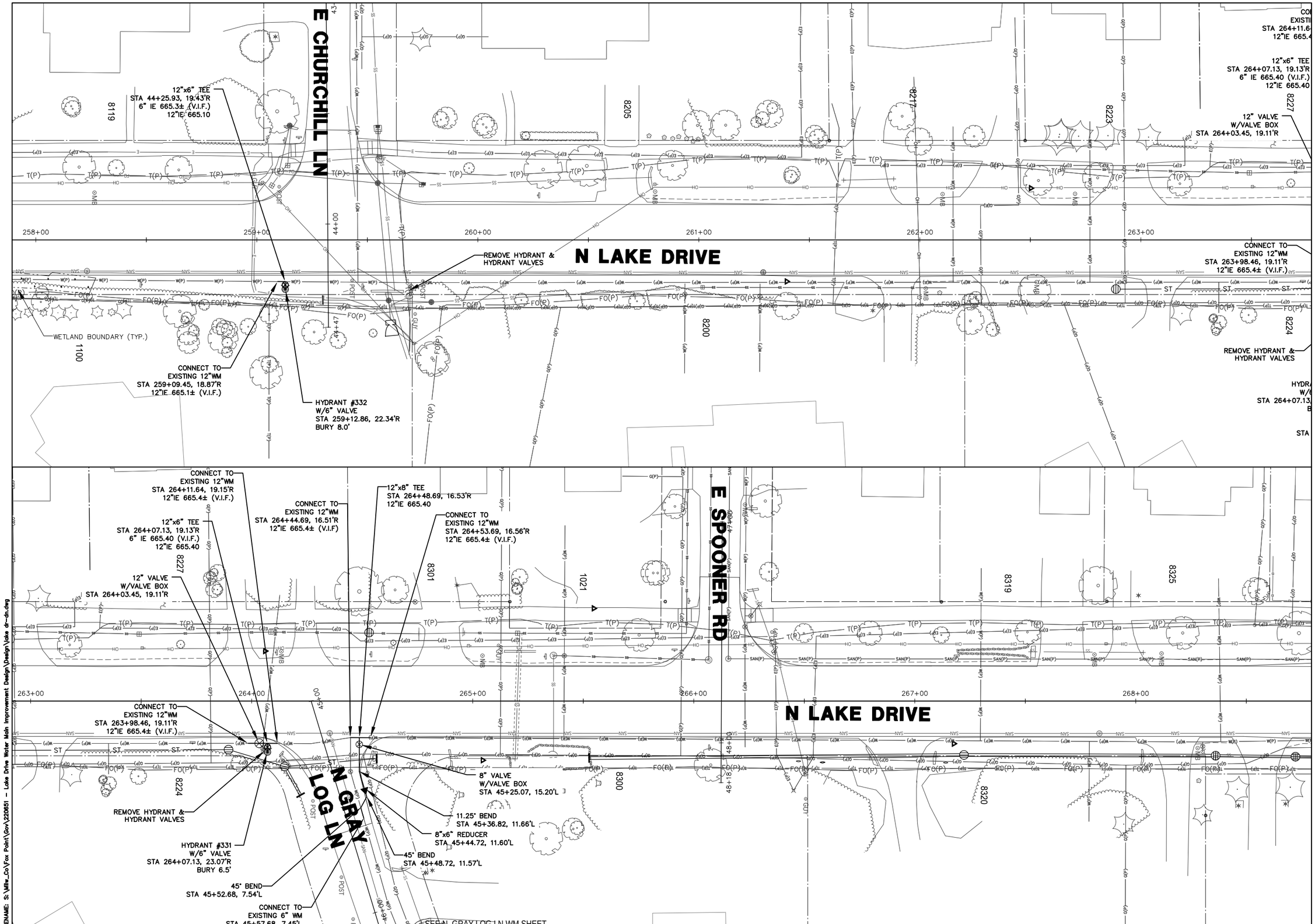
SHEET:

N. LAKE DRIVE
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:

160 --



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kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 5'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

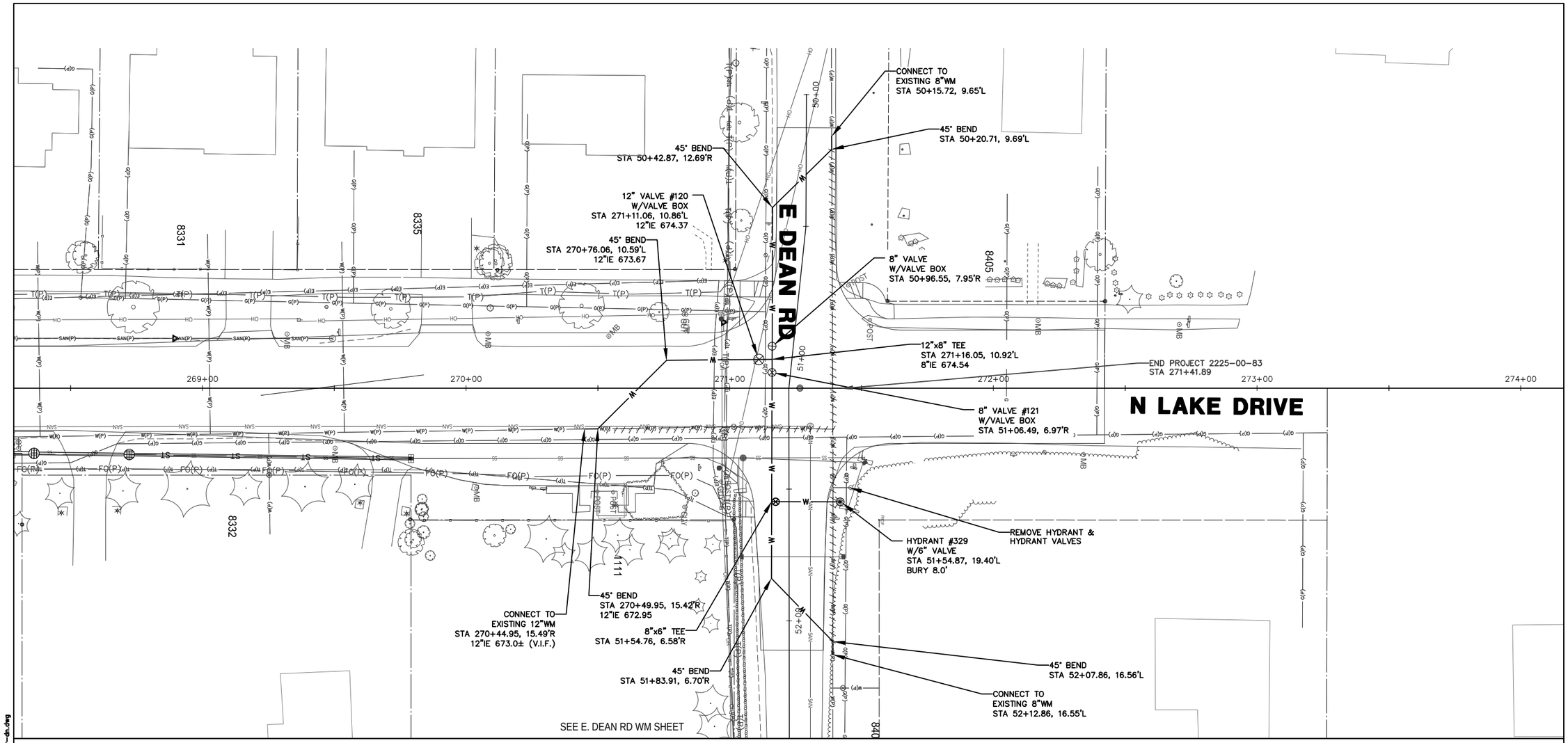
SHEET:

N. LAKE DRIVE
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:

161 --



FILENAME: S:\Villw_Co\Fox Point\Gov\220651 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg

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Milwaukee, Wisconsin 53217

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PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 5'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

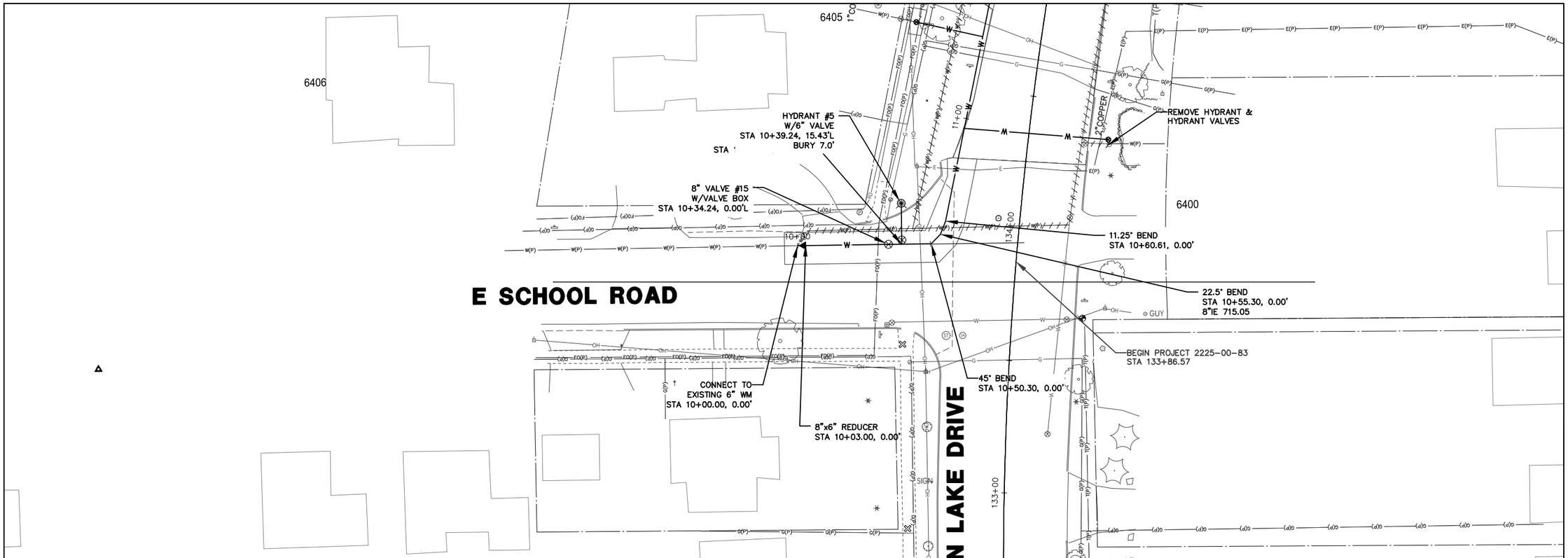
SHEET:

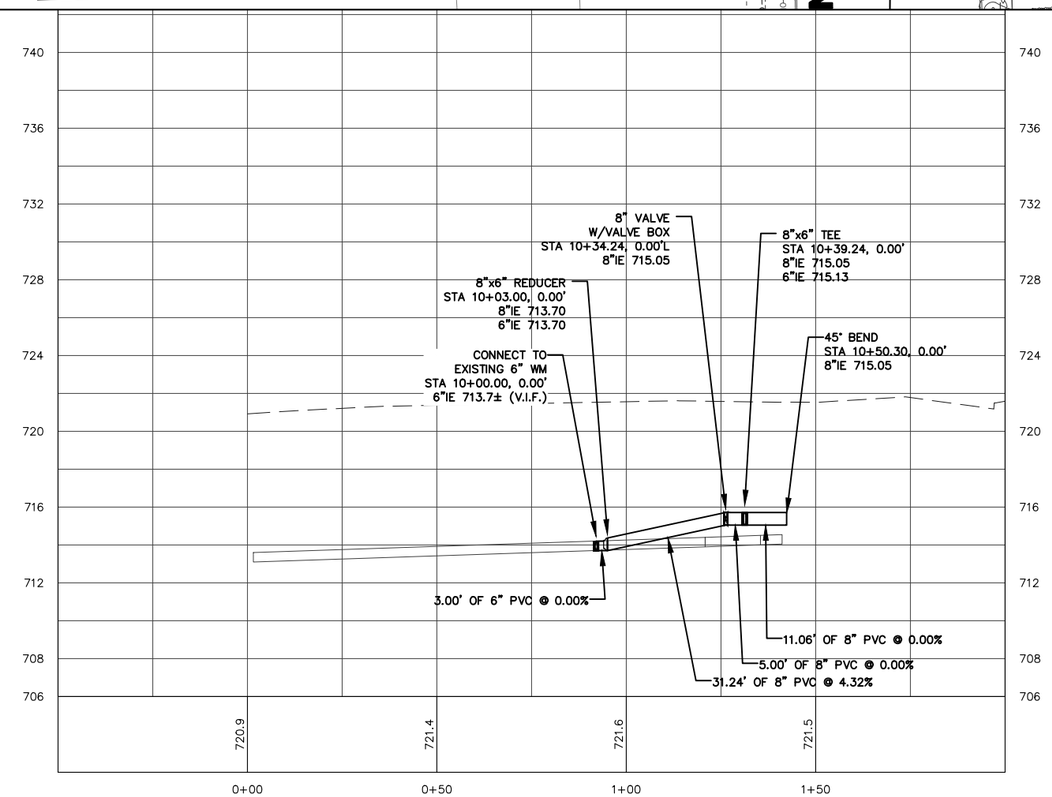
N. LAKE DRIVE
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:

162 --





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PROJECT:
ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:
VILLAGE OF FOX POINT

CLIENT:
VILLAGE OF FOX POINT

RELEASE:
CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

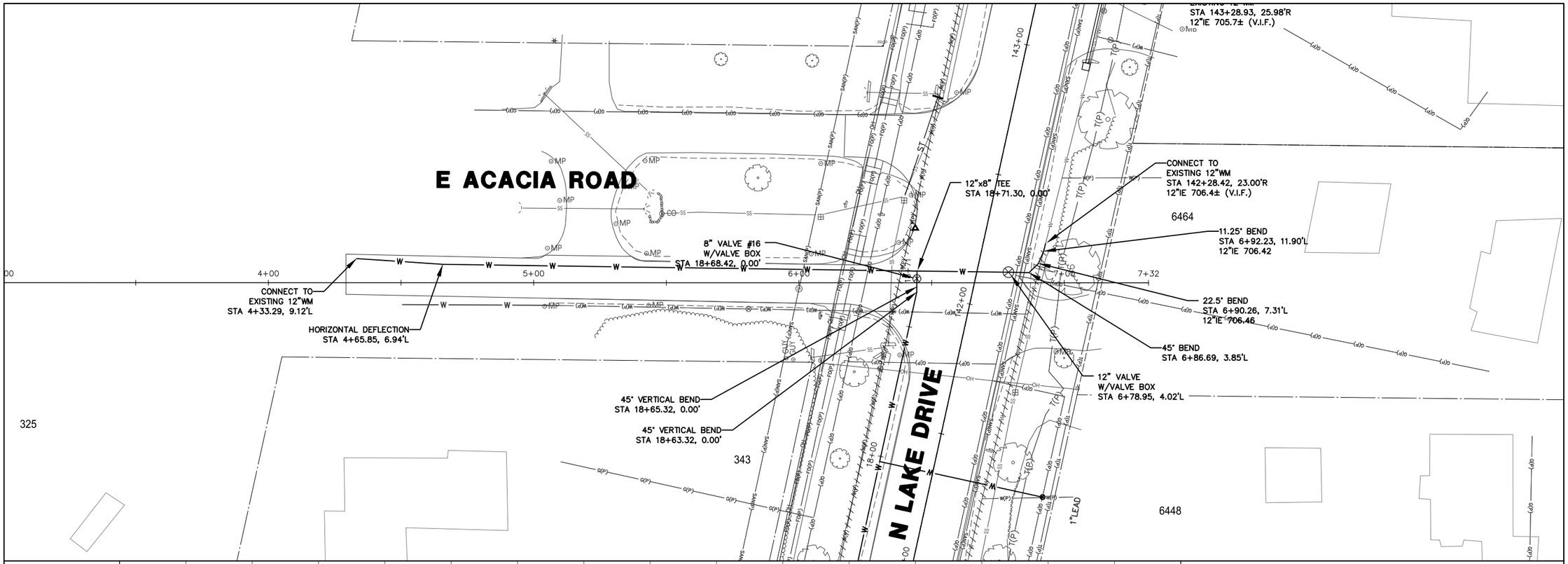
SEAL:
all in

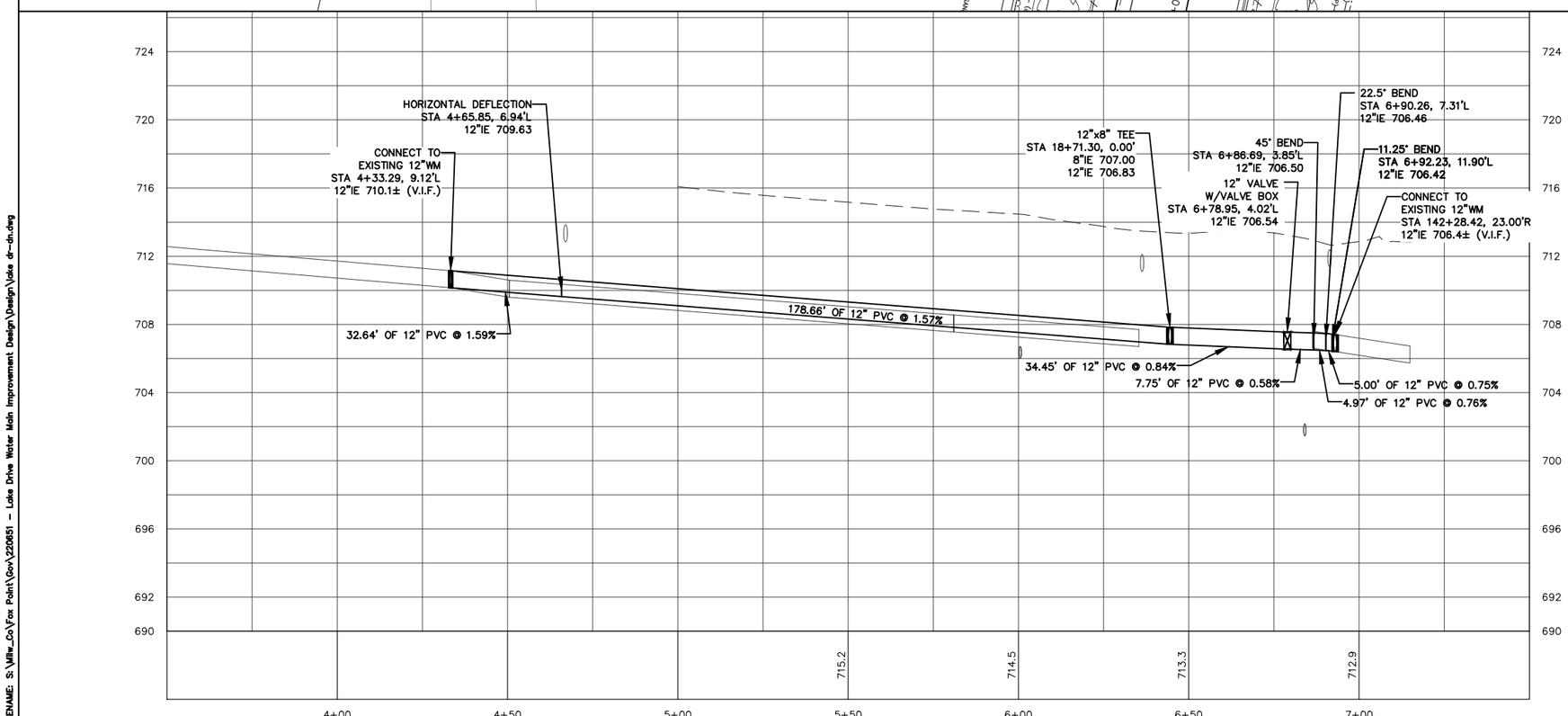
SHEET:
E. SCHOOL ROAD
WATER MAIN

PROJECT MANAGER: YA
PROJECT NUMBER: 22.0651.01
DATE: 10/15/24

SHEET NUMBER:
163 --

FILENAME: S:\Milw_Co\Fox Point\Gov\220651 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg





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kapur
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PROJECT:
ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:
VILLAGE OF FOX POINT

CLIENT:
VILLAGE OF FOX POINT

RELEASE:
CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

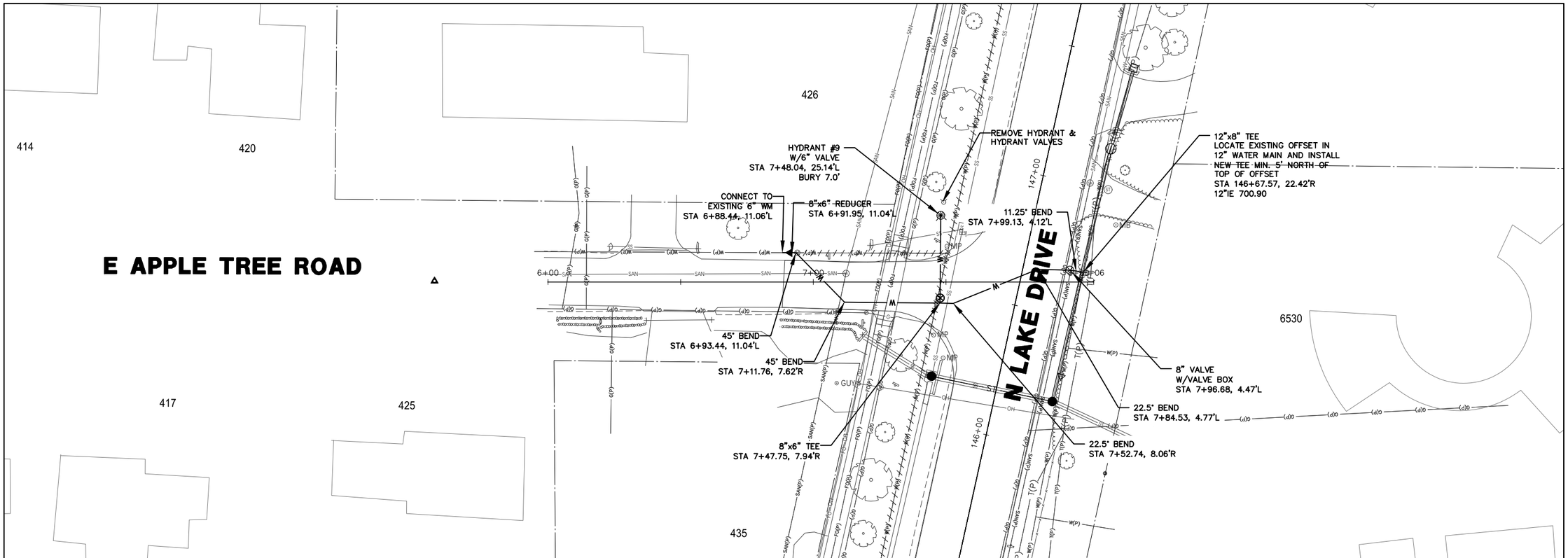
SEAL:

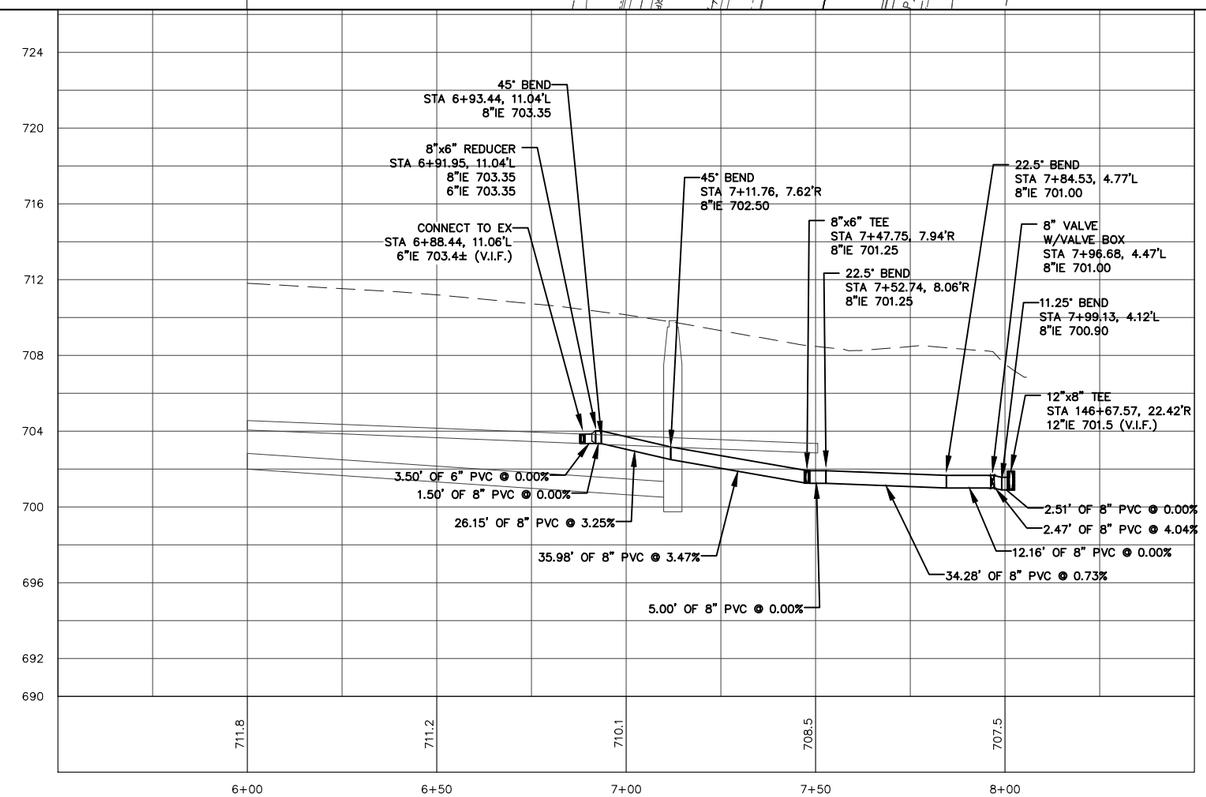
all in

SHEET:
E. ACACIA ROAD
WATER MAIN

PROJECT MANAGER: YA
PROJECT NUMBER: 22.0651.01
DATE: 10/15/24

SHEET NUMBER:
164 --





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PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

SHEET:

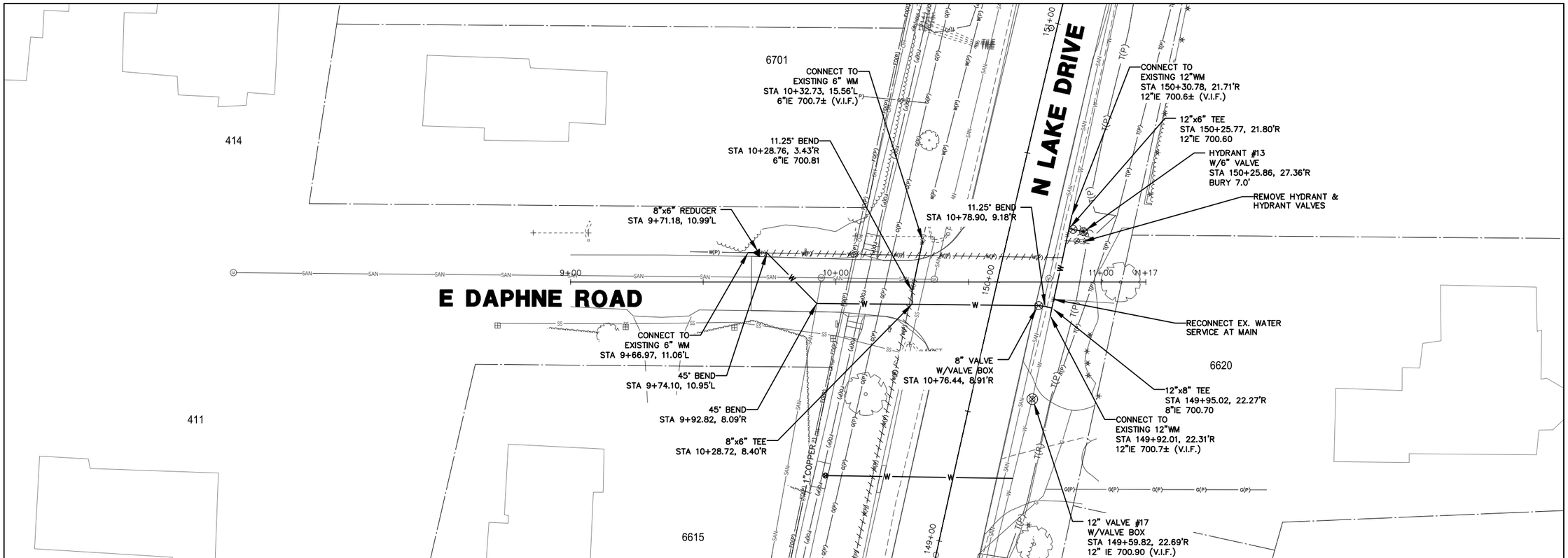
E. APPLE TREE
ROAD
WATER MAIN

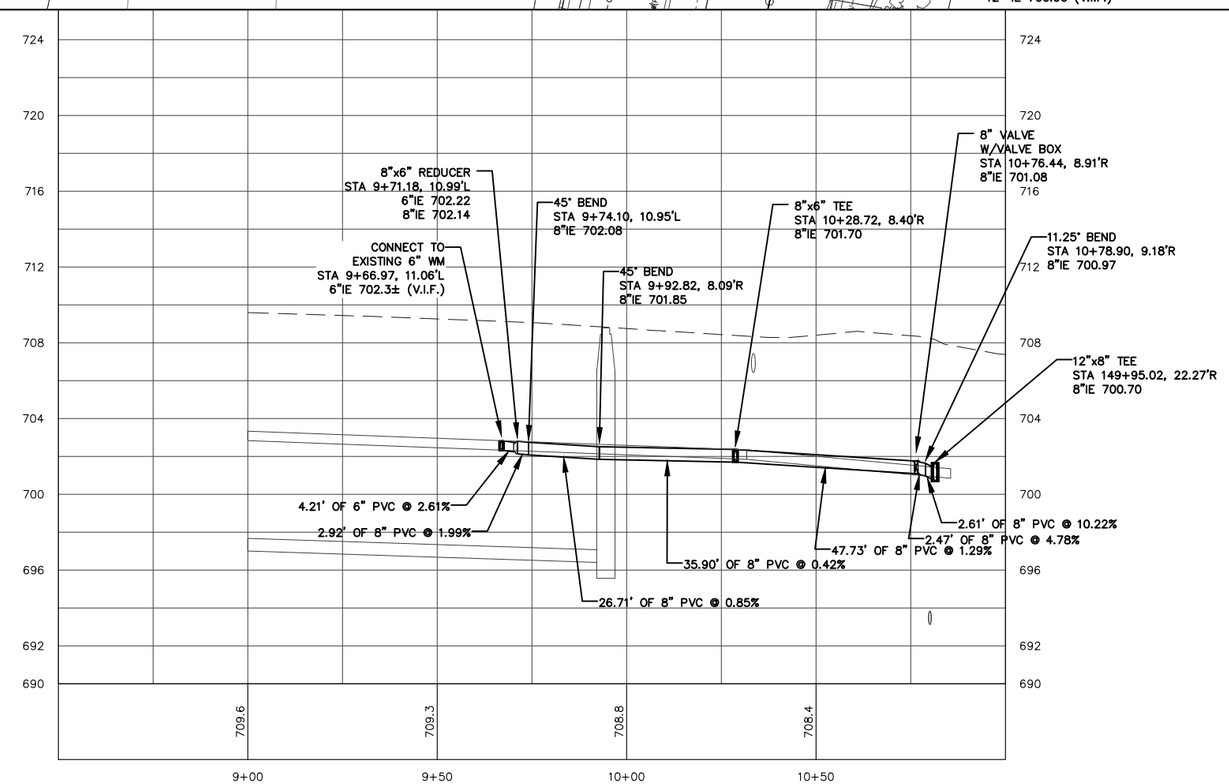
PROJECT MANAGER: YA
PROJECT NUMBER: 22.0651.01
DATE: 10/15/24

SHEET NUMBER:

165 --

FILENAME: S:\Milw_Co\Fox Point\Gov\220851 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg





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PROJECT:
ID 2225-00-83
STH 32 SCHOOL RD TO DEAN RD WATERMAIN

LOCATION:
VILLAGE OF FOX POINT

CLIENT:
VILLAGE OF FOX POINT

RELEASE:
CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

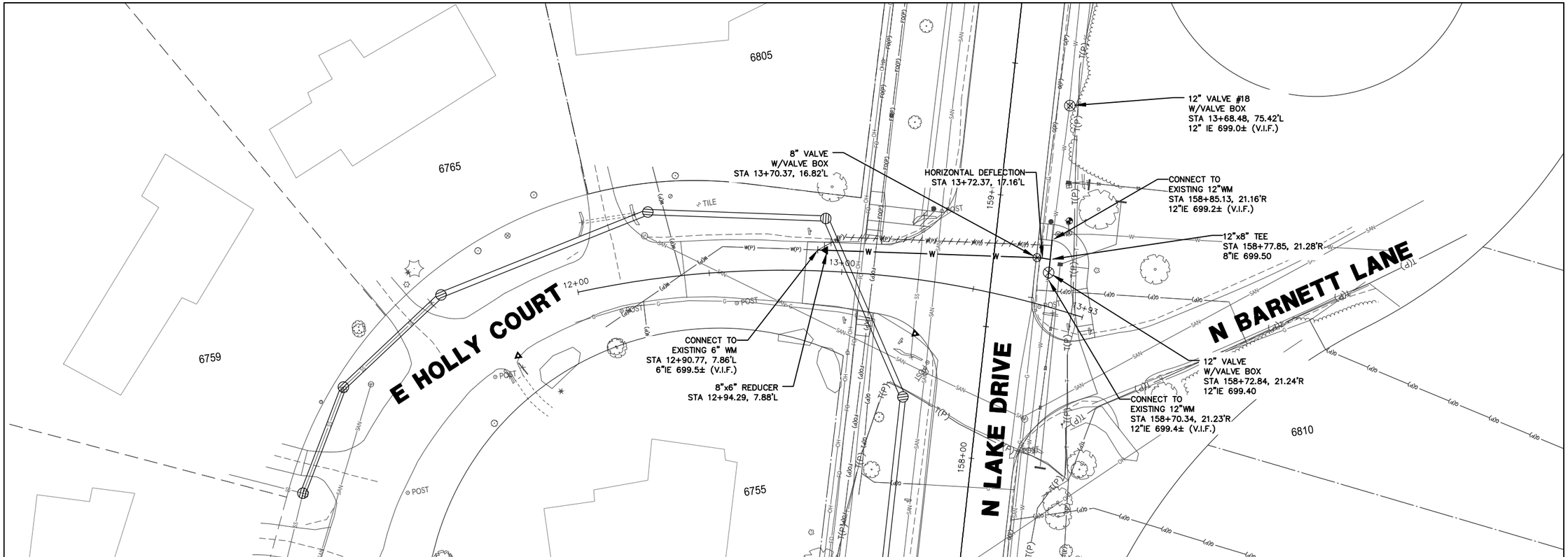
SEAL:
all in

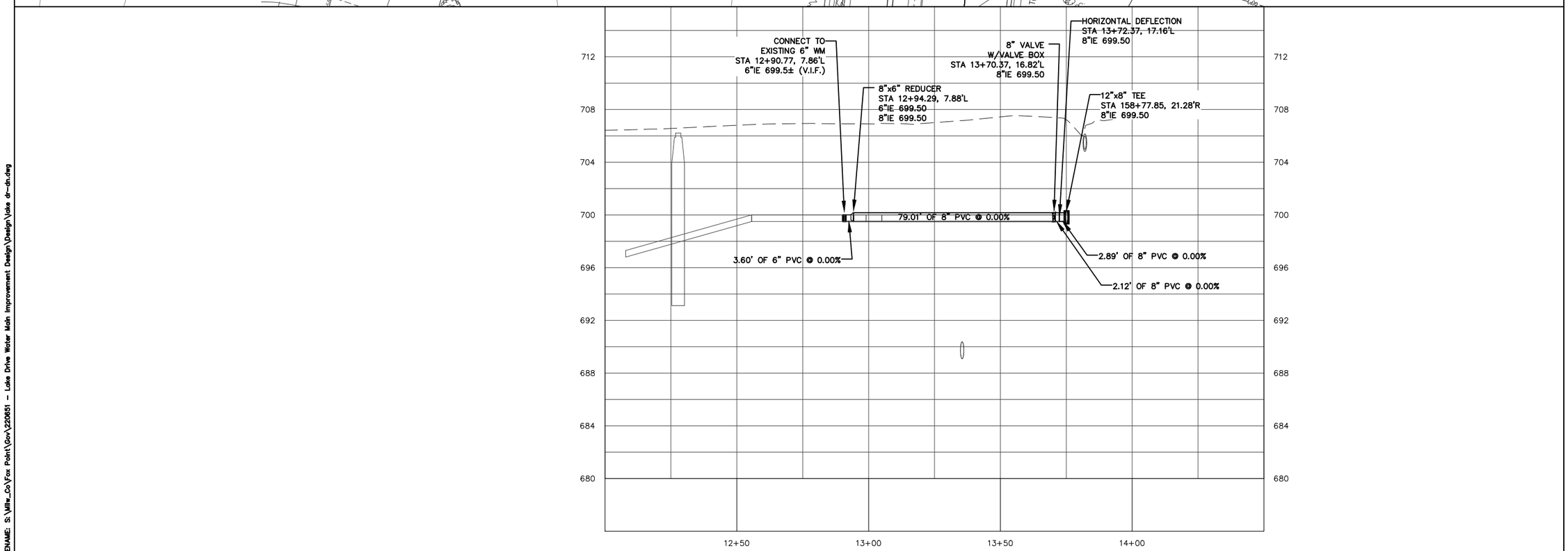
SHEET:
E. DAPHNE ROAD WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:
166 --

FILENAME: S:\Milw_Co\Fox Point\Gov\220651 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg





FILENAME: S:\Milw_Co\Fox Point\Gov\220851 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg

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PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

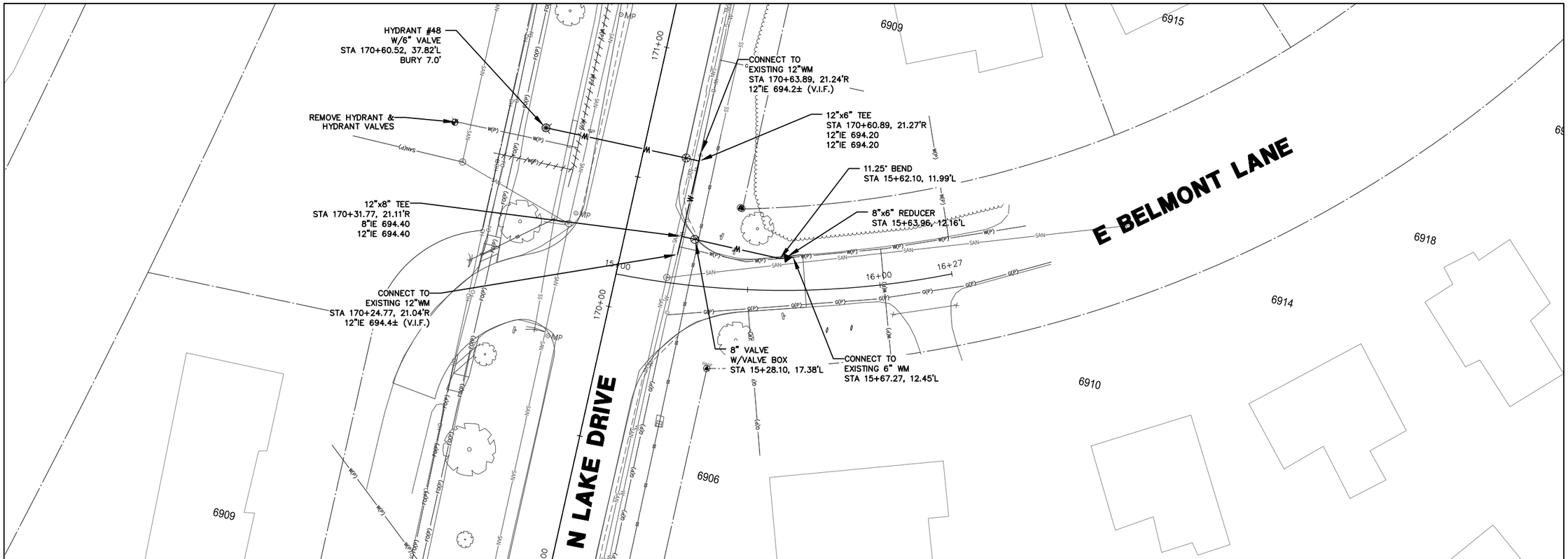
SHEET:

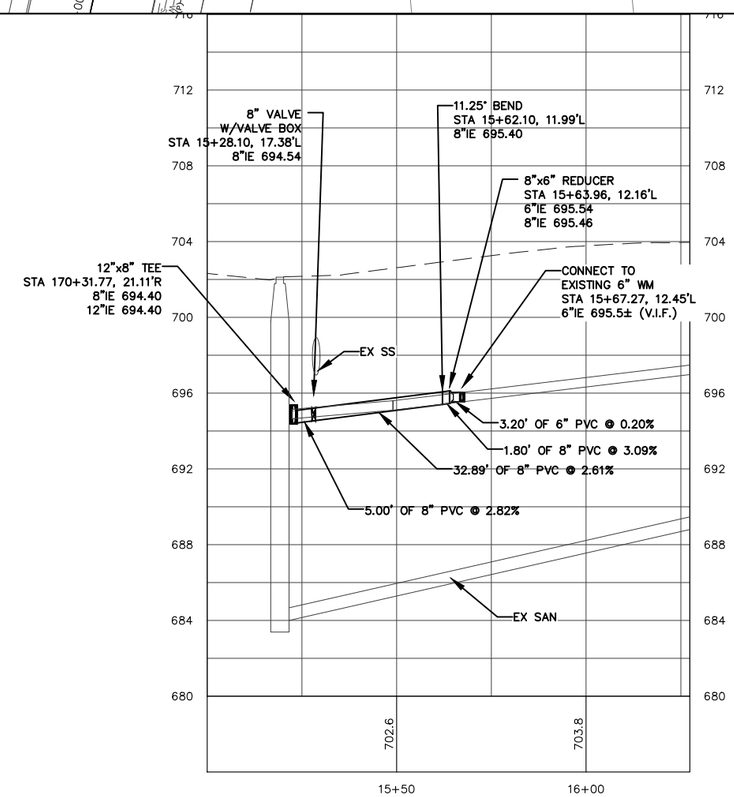
N. HOLLY COURT
WATER MAIN

PROJECT MANAGER: YA
PROJECT NUMBER: 22.0651.01
DATE: 10/15/24

SHEET NUMBER:

167 --





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PROJECT:
ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:
VILLAGE OF FOX POINT

CLIENT:
VILLAGE OF FOX POINT

RELEASE:
CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

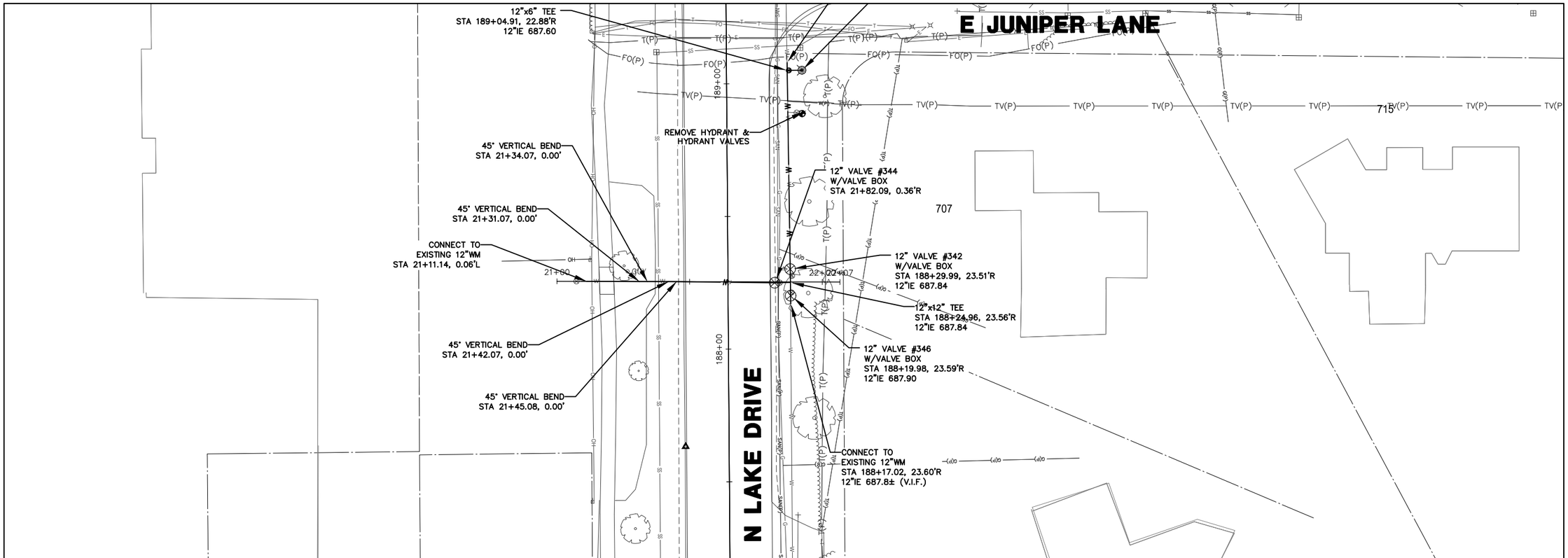
all in

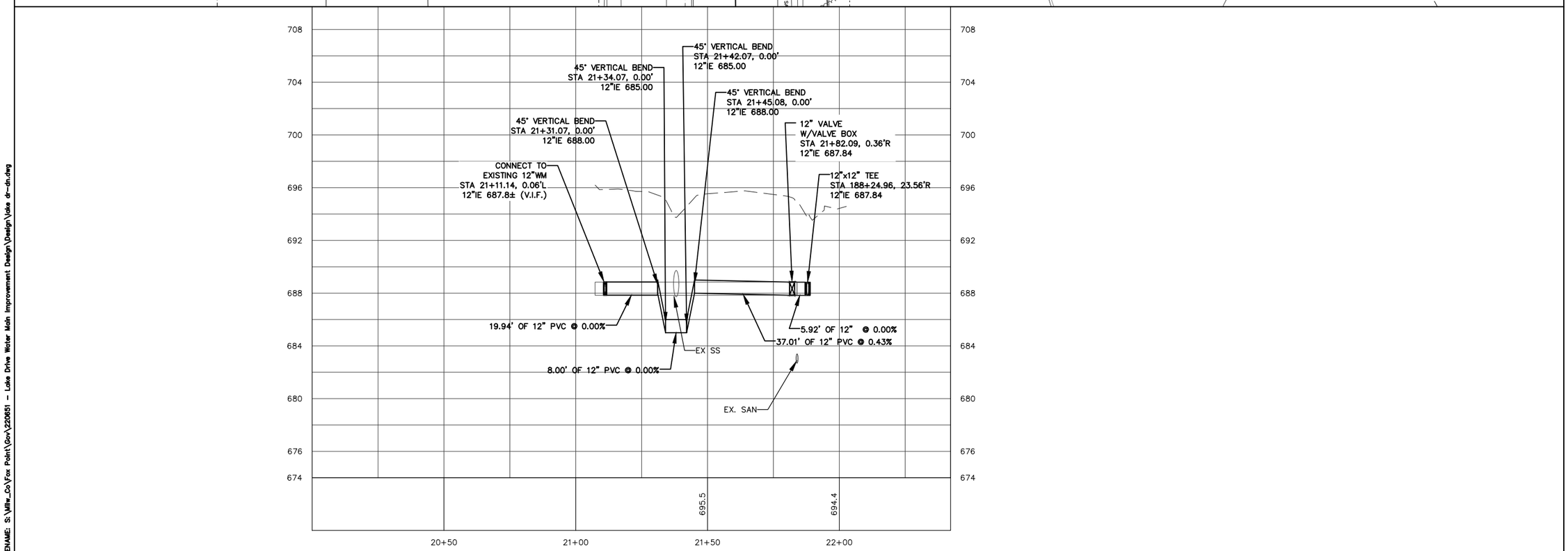
SHEET:
N. BELMONT LANE
WATER MAIN

PROJECT MANAGER: YA
PROJECT NUMBER: 22.0651.01
DATE: 10/15/24

SHEET NUMBER:
168 --

FILENAME: S:\Wilw_Co\Fox Point\Gov\220651 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg





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PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

SHEET:

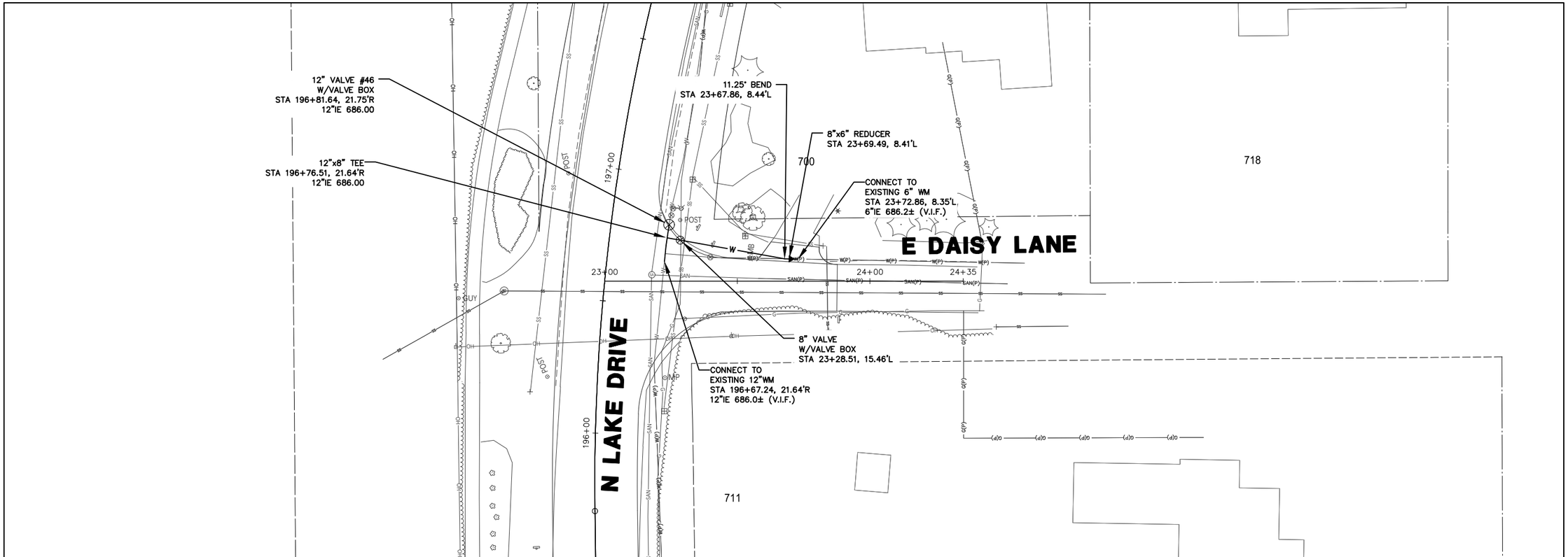
E. JUNIPER LANE
WATER MAIN

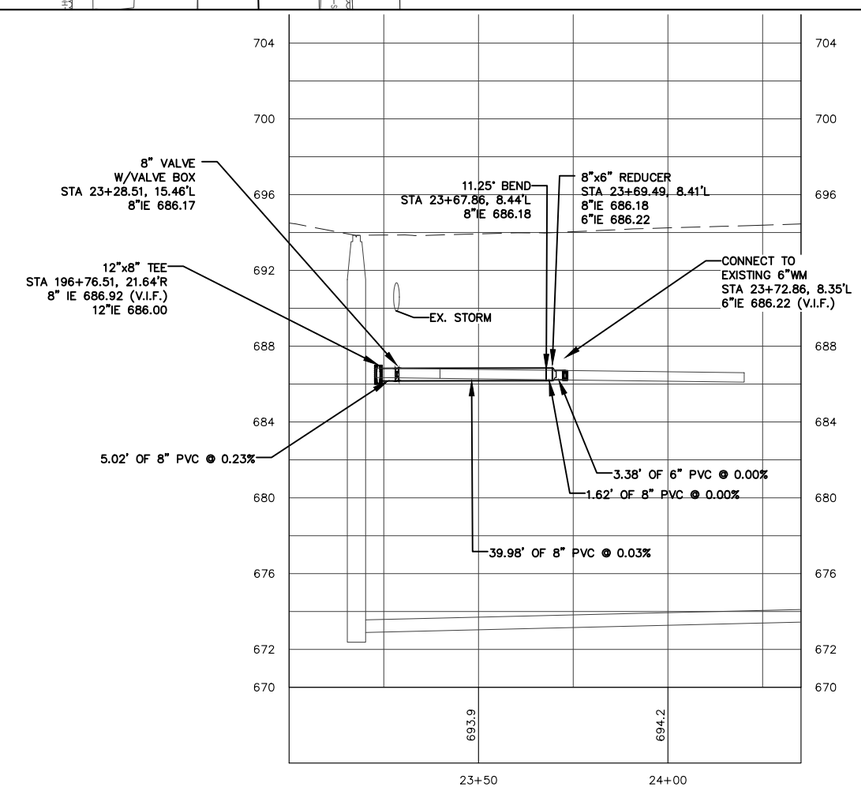
PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:

169 --

FILENAME: S:\Milw_Co\Fox Point\Gov\220651 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg





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PROJECT:
ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:
VILLAGE OF FOX POINT

CLIENT:
VILLAGE OF FOX POINT

RELEASE:
CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

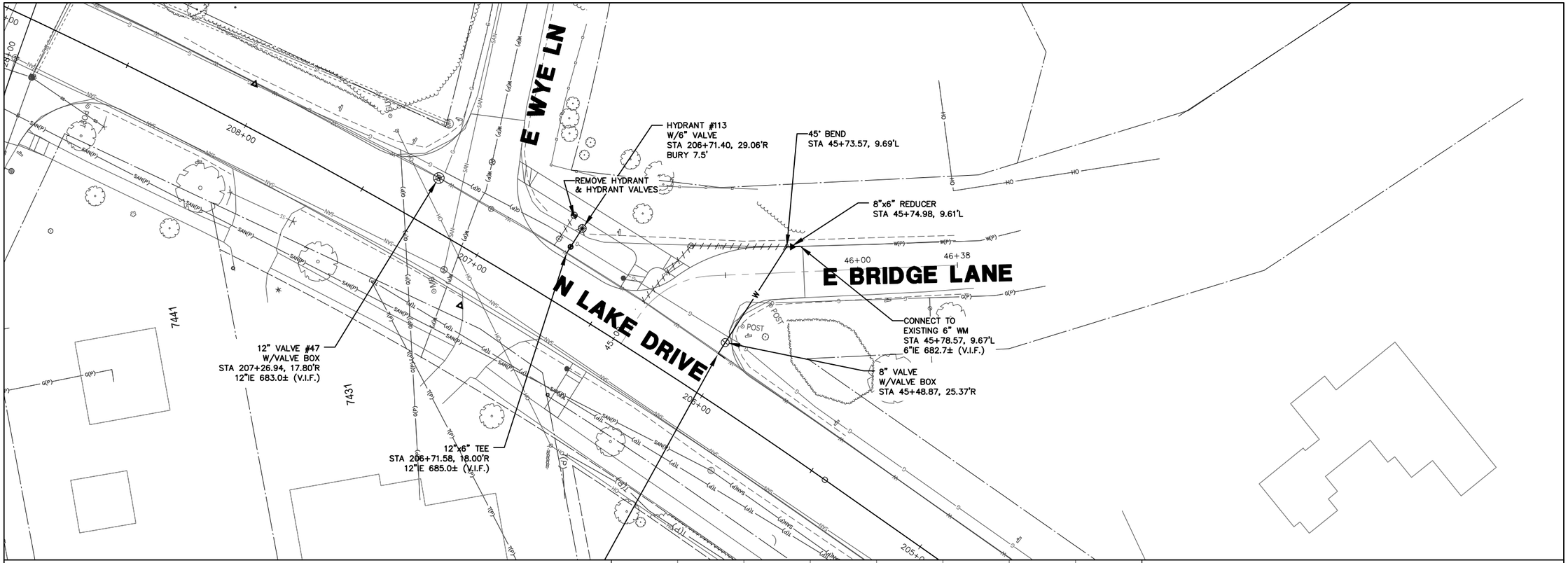
SEAL:
all in

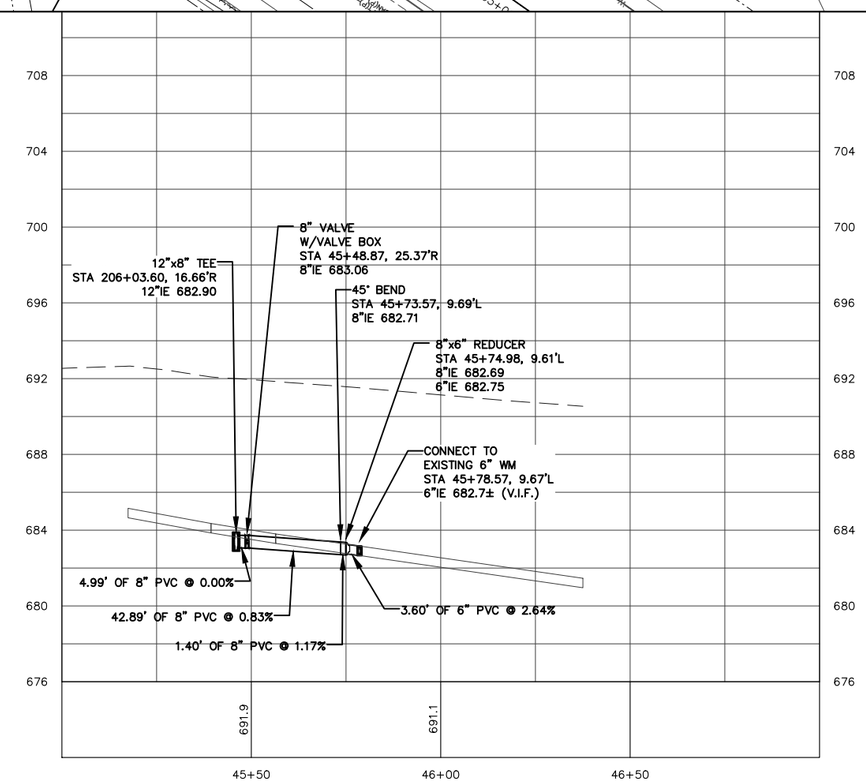
SHEET:
E. DAISY LANE
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:
170 --

FILENAME: S:\Milw_Co\Fox Point\Gov\220651 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg





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Milwaukee, Wisconsin 53217
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PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 5'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

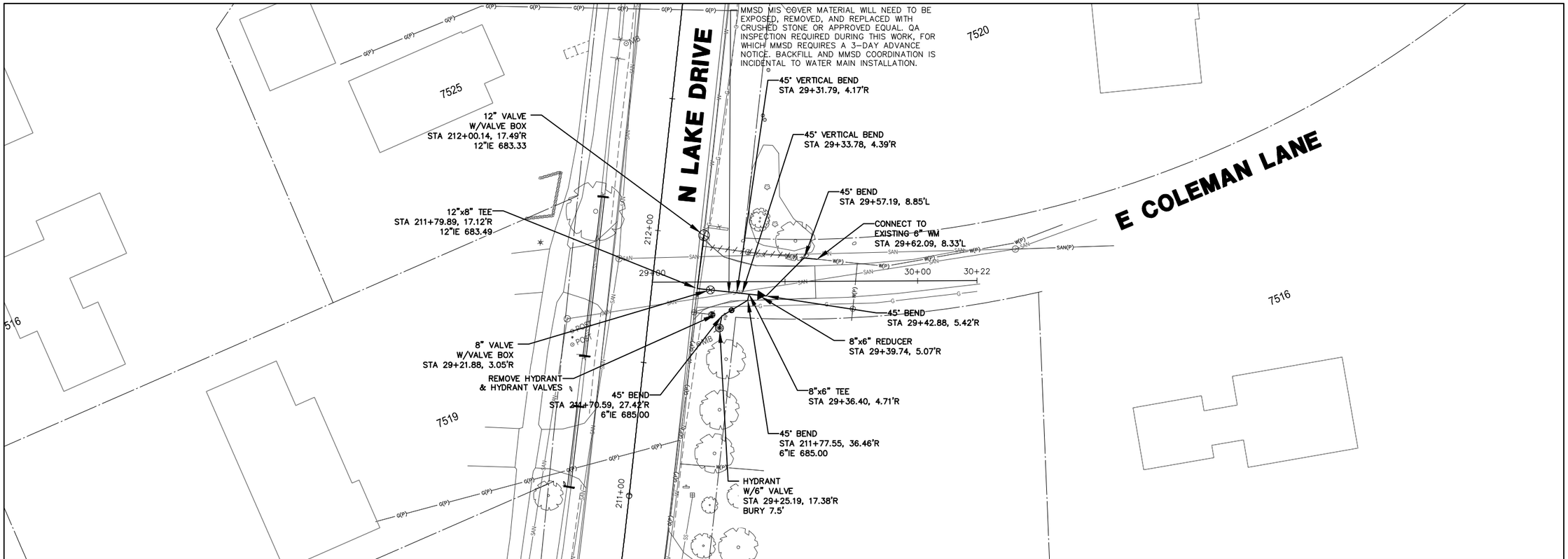
SHEET:

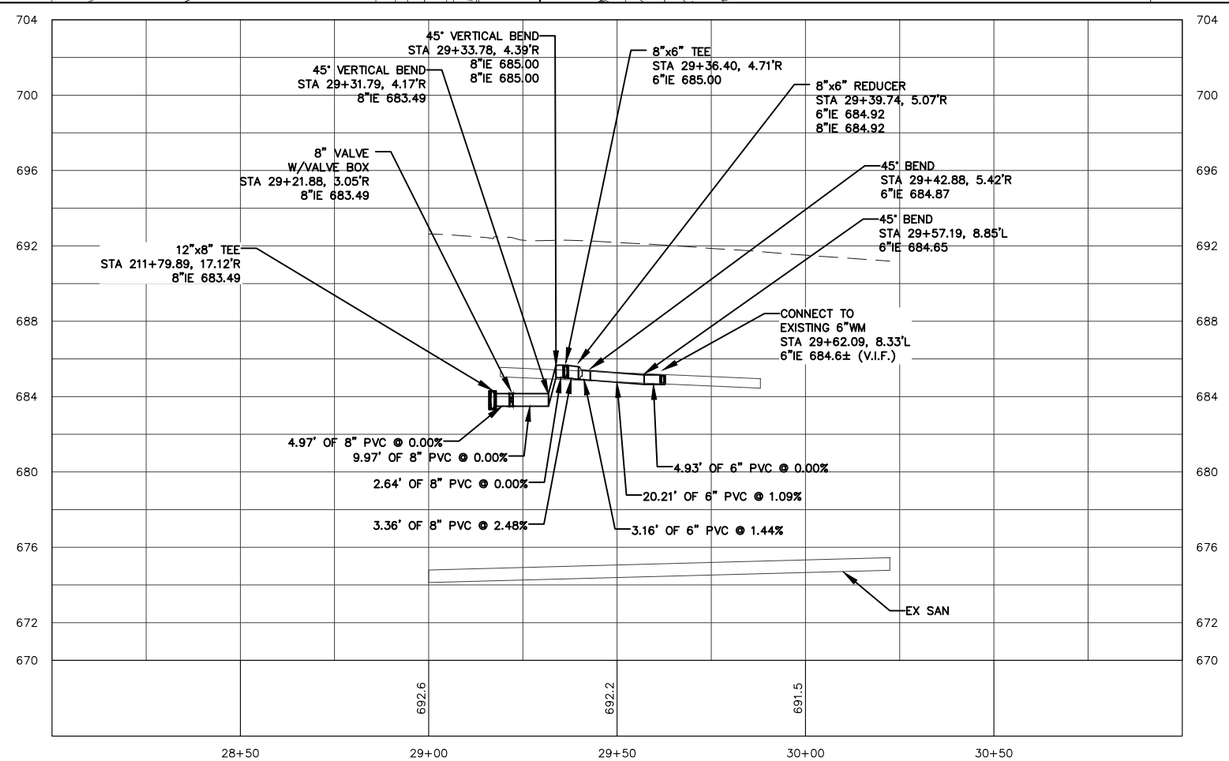
E. BRIDGE LANE
WATER MAIN

PROJECT MANAGER: YA
PROJECT NUMBER: 22.0651.01
DATE: 10/15/24

SHEET NUMBER:

171 --





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PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
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LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

SHEET:

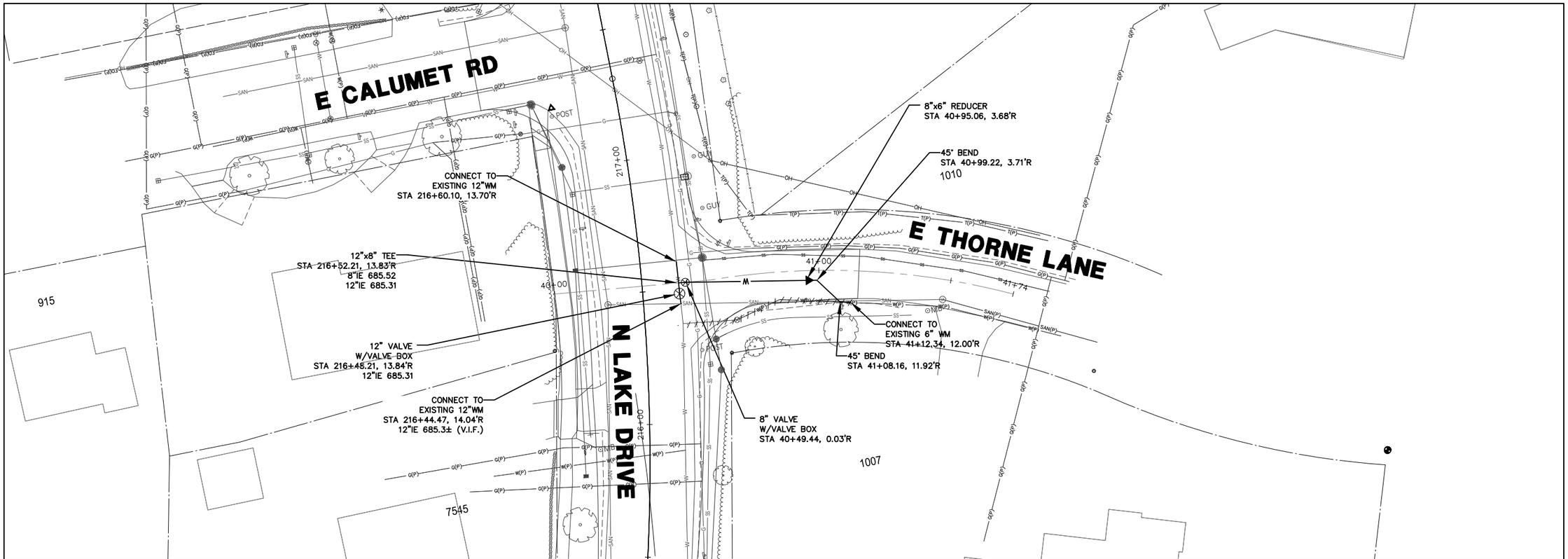
E. COLEMAN LANE
WATER MAIN

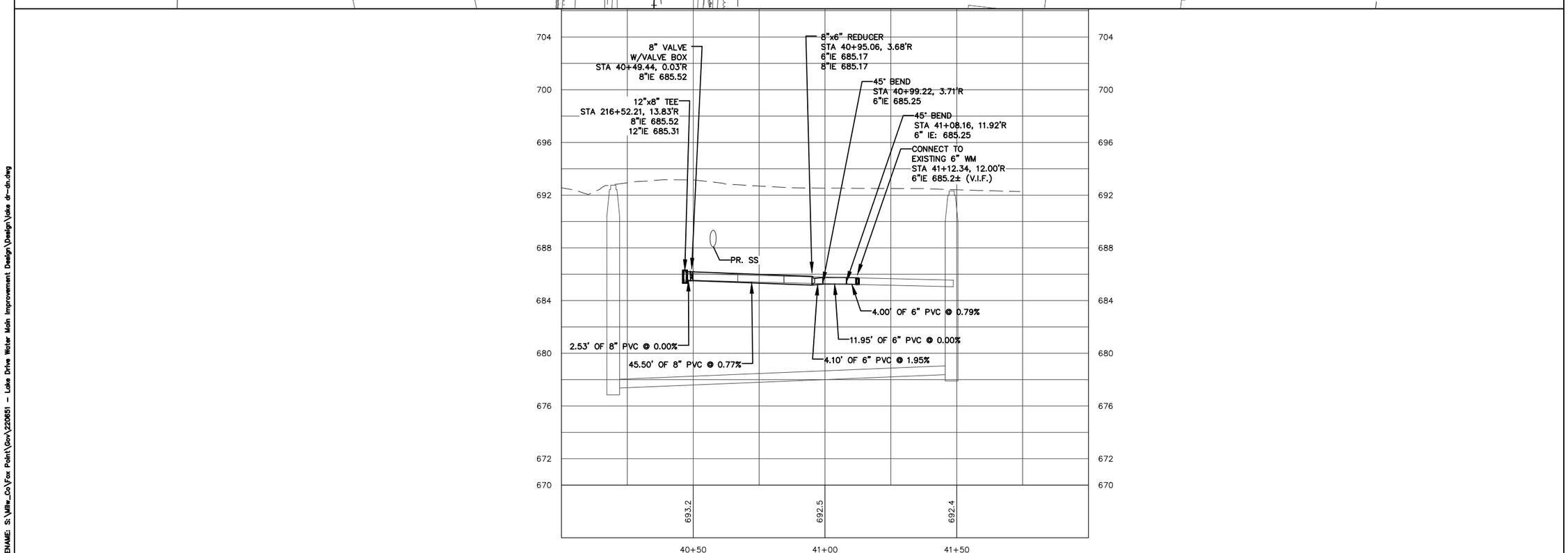
PROJECT MANAGER: YA
PROJECT NUMBER: 22.0651.01
DATE: 10/15/24

SHEET NUMBER:

172 --

FILENAME: S:\Milw_Co\Fox Point\Gov\220651 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg





FILENAME: S:\Wtlw_Co\Fox Point\Gov\220651 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg

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Milwaukee, Wisconsin 53217

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PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 5'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

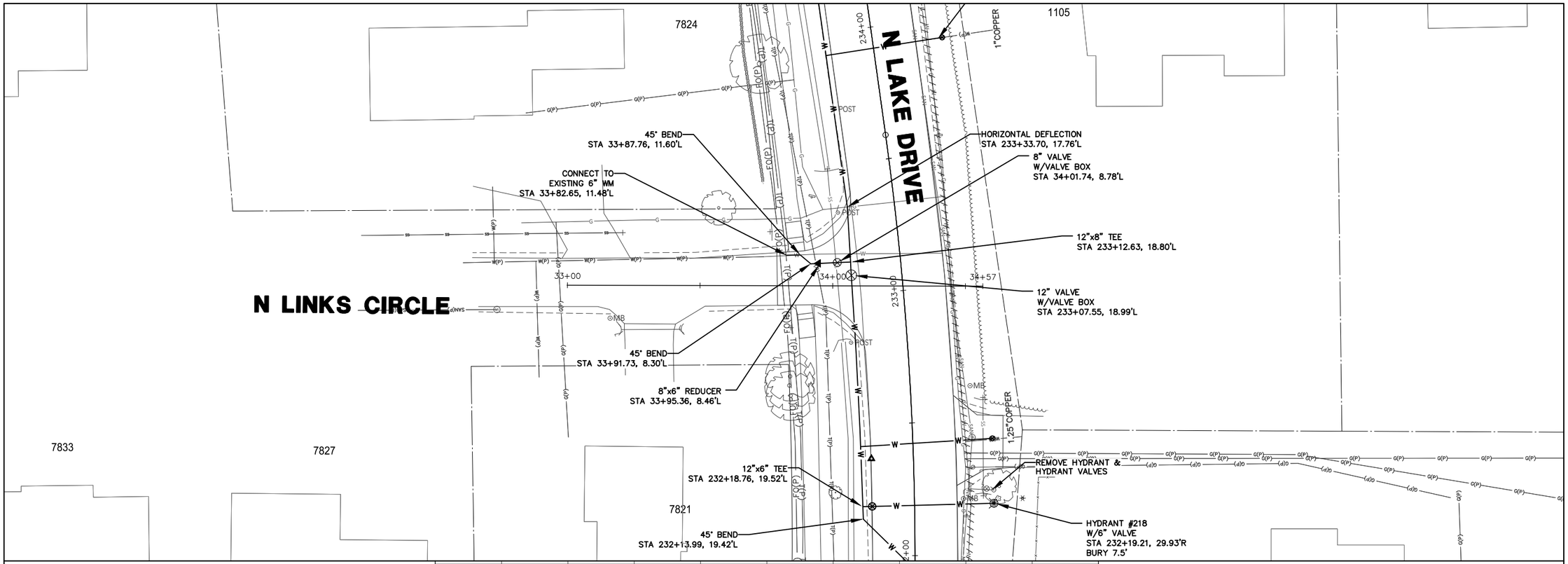
SHEET:

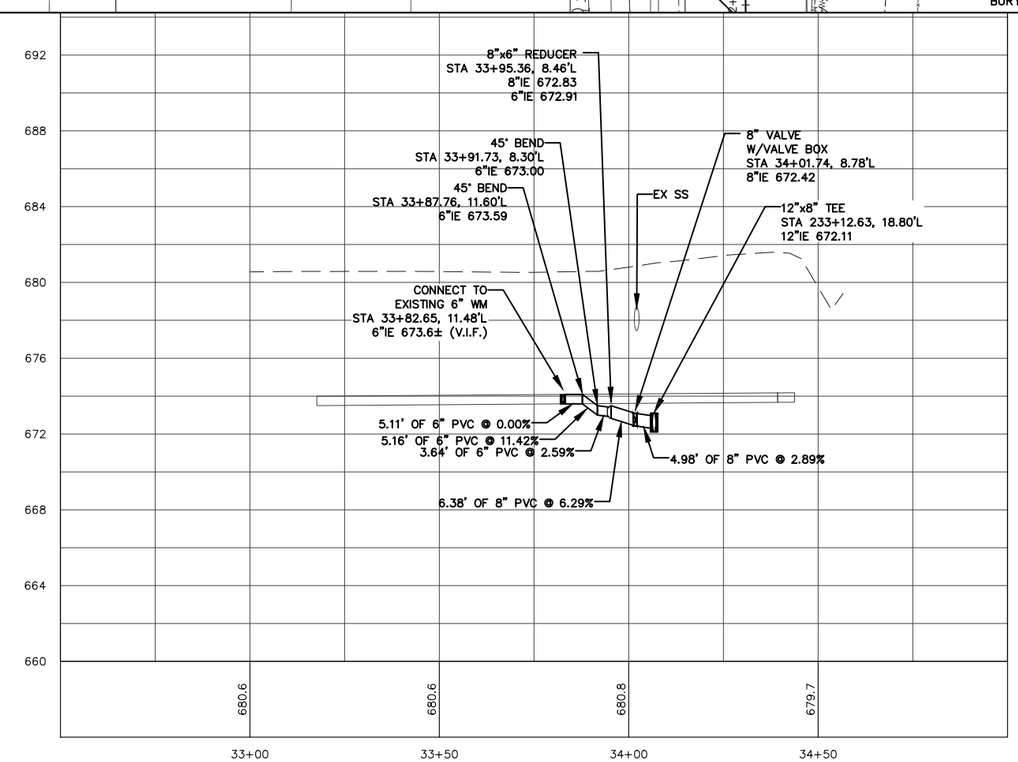
E.THORNE LANE
WATER MAIN

PROJECT MANAGER: YA
PROJECT NUMBER: 22.0651.01
DATE: 10/15/24

SHEET NUMBER:

173 --





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PROJECT:
ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:
VILLAGE OF FOX POINT

CLIENT:
VILLAGE OF FOX POINT

RELEASE:
CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

SHEET:
N. LINKS CIRCLE
WATER MAIN

PROJECT MANAGER: YA
PROJECT NUMBER: 22.0651.01
DATE: 10/15/24

SHEET NUMBER:
174 --

FILENAME: S:\Milw_Co\Fox Point\Gov\220651 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg

FILENAME: S:\Mlw_Co\Fox Point\Gov\220651 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg

kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

PROJECT:
ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:
VILLAGE OF
FOX POINT

CLIENT:
VILLAGE OF
FOX POINT

RELEASE:
CONSTRUCTION
SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 5'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

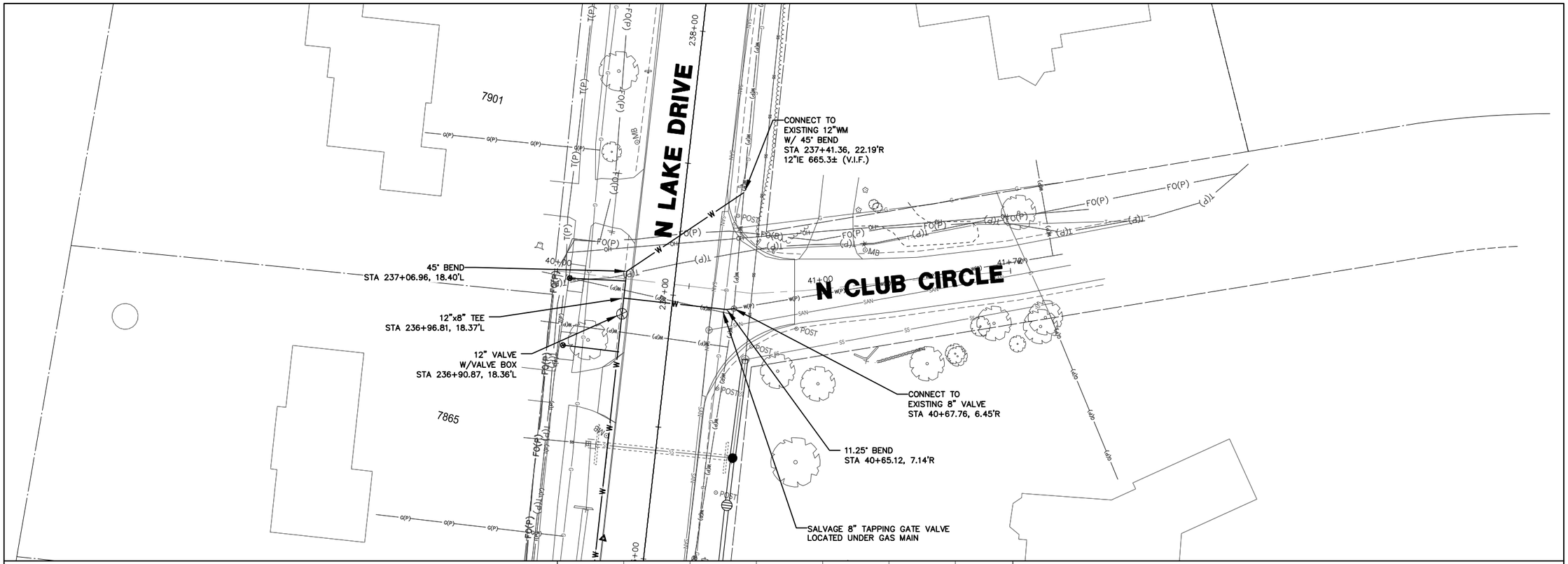
SEAL:

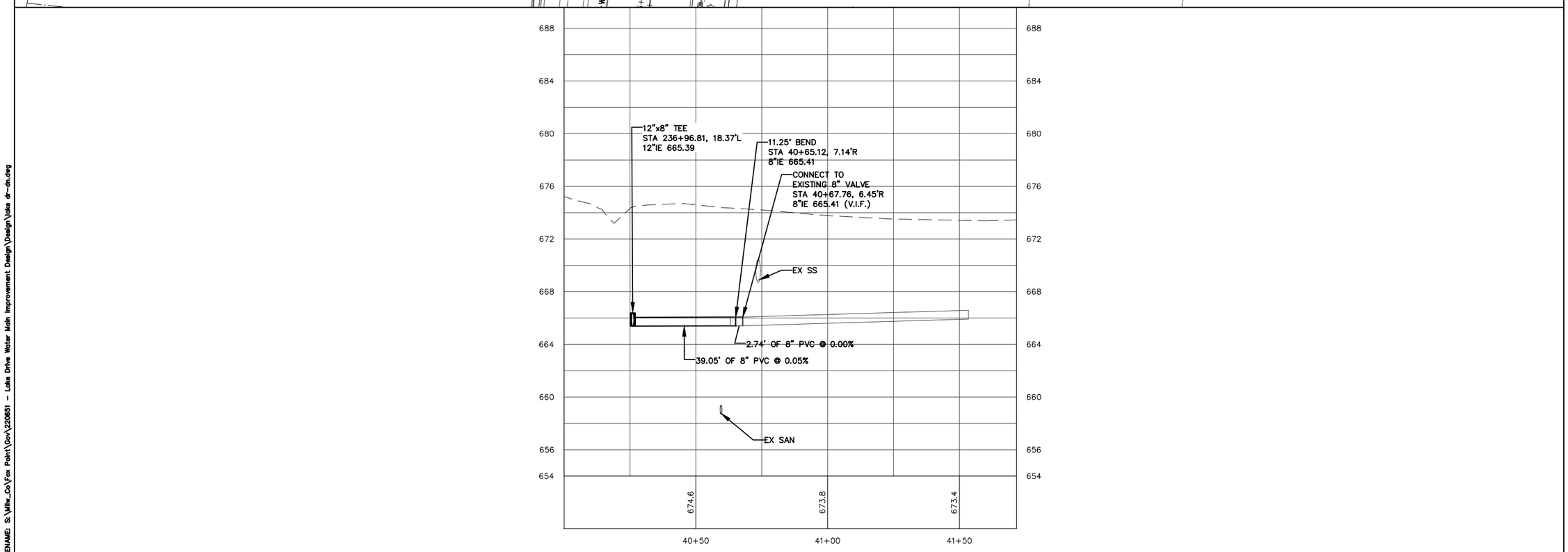
all in

SHEET:
E. LILAC LANE
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:
175 --





FILENAME: S:\Milw_Co\Fox Point\Gov\220851 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg

kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 5'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

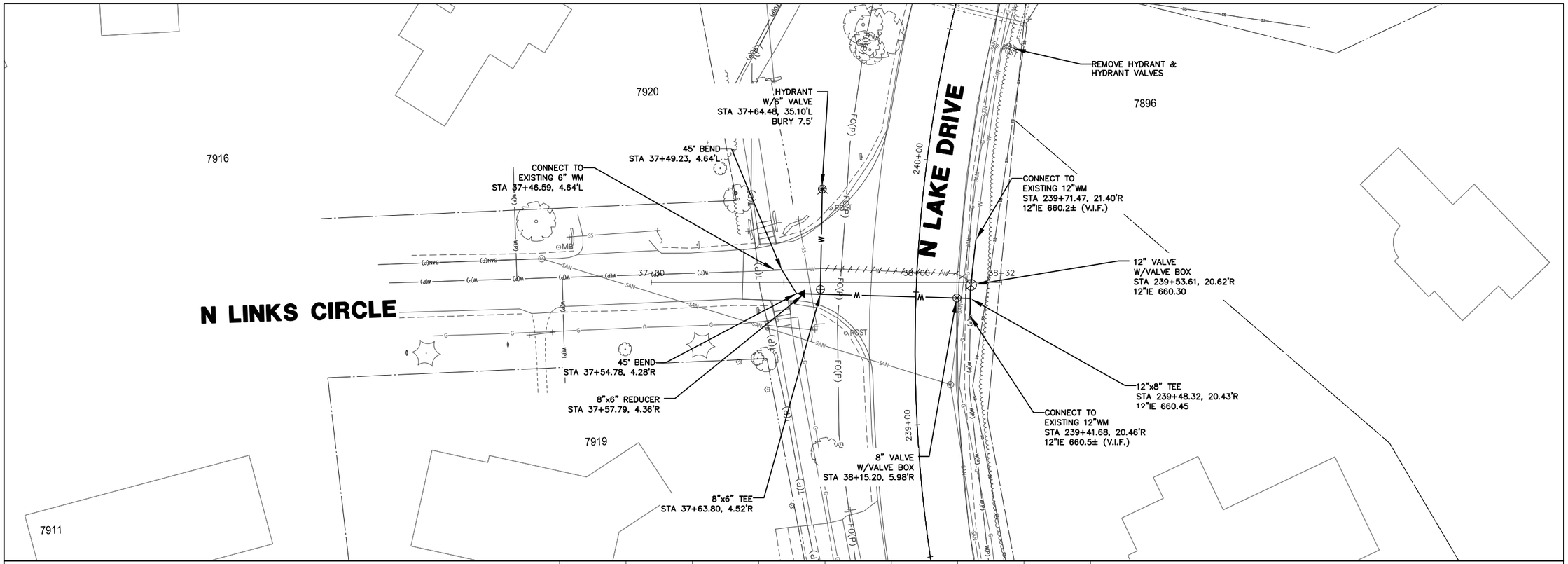
SHEET:

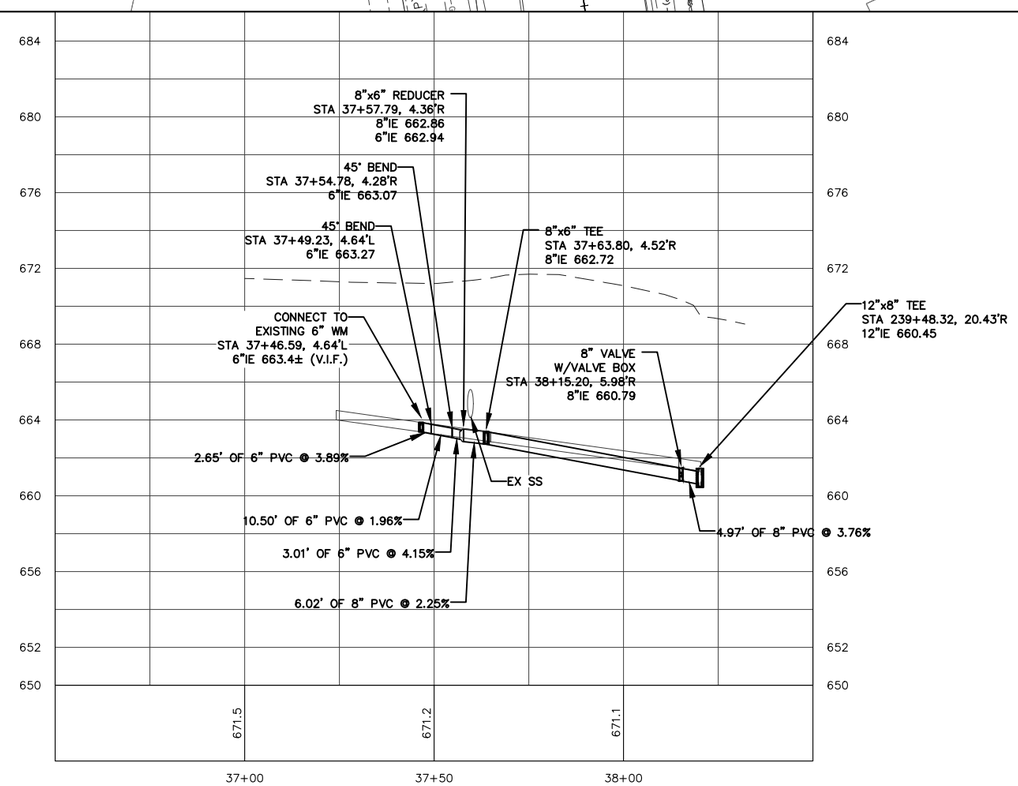
N. CLUB CIRCLE
WATER MAIN

PROJECT MANAGER: YA
PROJECT NUMBER: 22.0651.01
DATE: 10/15/24

SHEET NUMBER:

176 --





kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

PROJECT:
ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:
VILLAGE OF FOX POINT

CLIENT:
VILLAGE OF FOX POINT

RELEASE:
CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

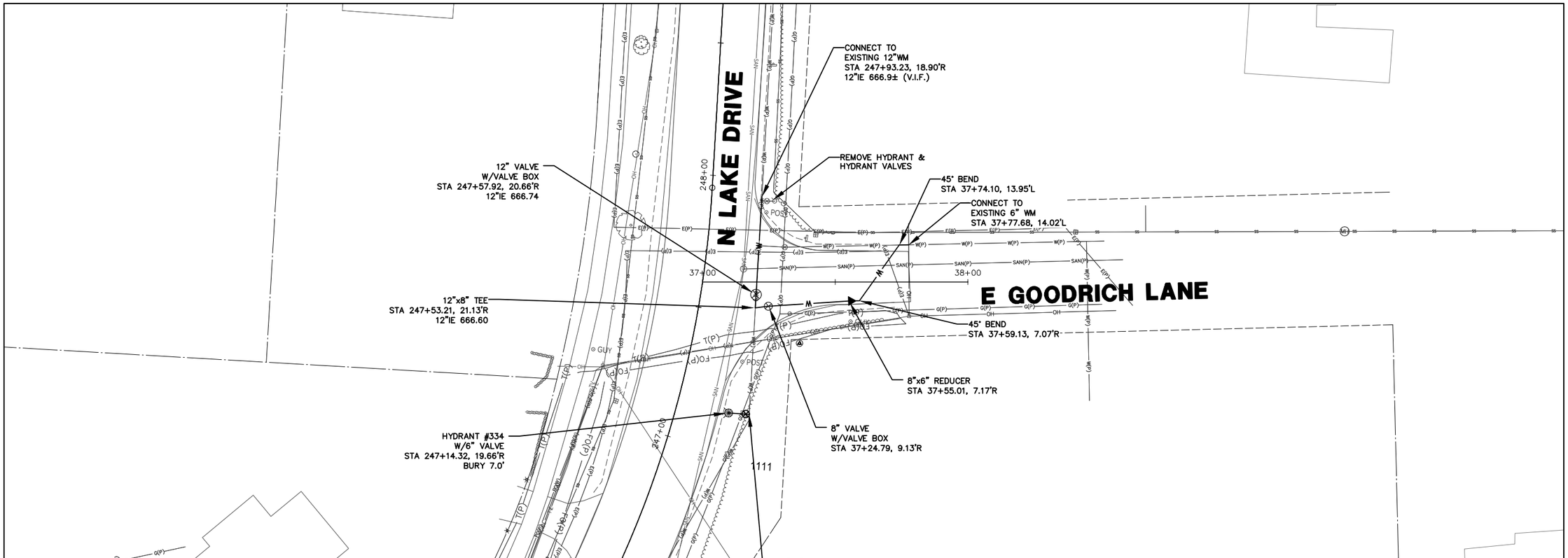
all in

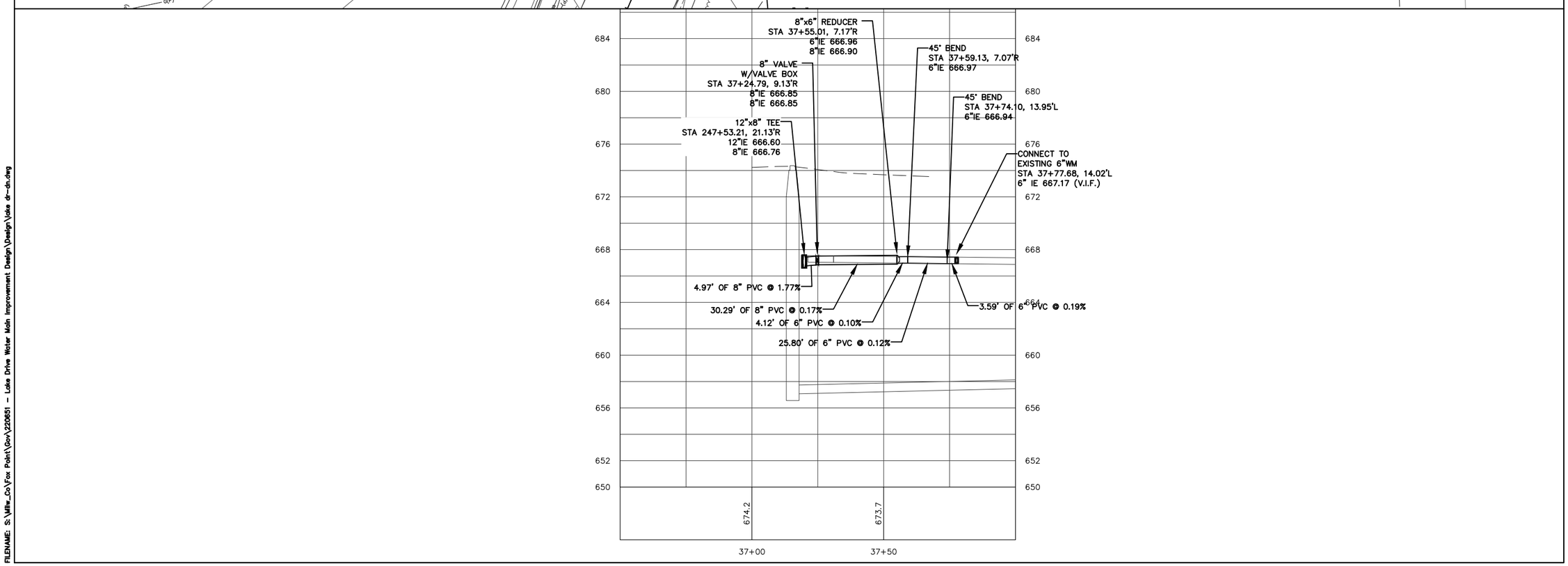
SHEET:
N. LINKS CIRCLE
WATER MAIN

PROJECT MANAGER: YA
PROJECT NUMBER: 22.0651.01
DATE: 10/15/24

SHEET NUMBER:
177 --

FILENAME: S:\Milw_Co\Fox Point\Gov\220651 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg





FILENAME: S:\Milw_Co\Fox Point\Gov\220851 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg

kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

PROJECT:
ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:
VILLAGE OF FOX POINT

CLIENT:
VILLAGE OF FOX POINT

RELEASE:
CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

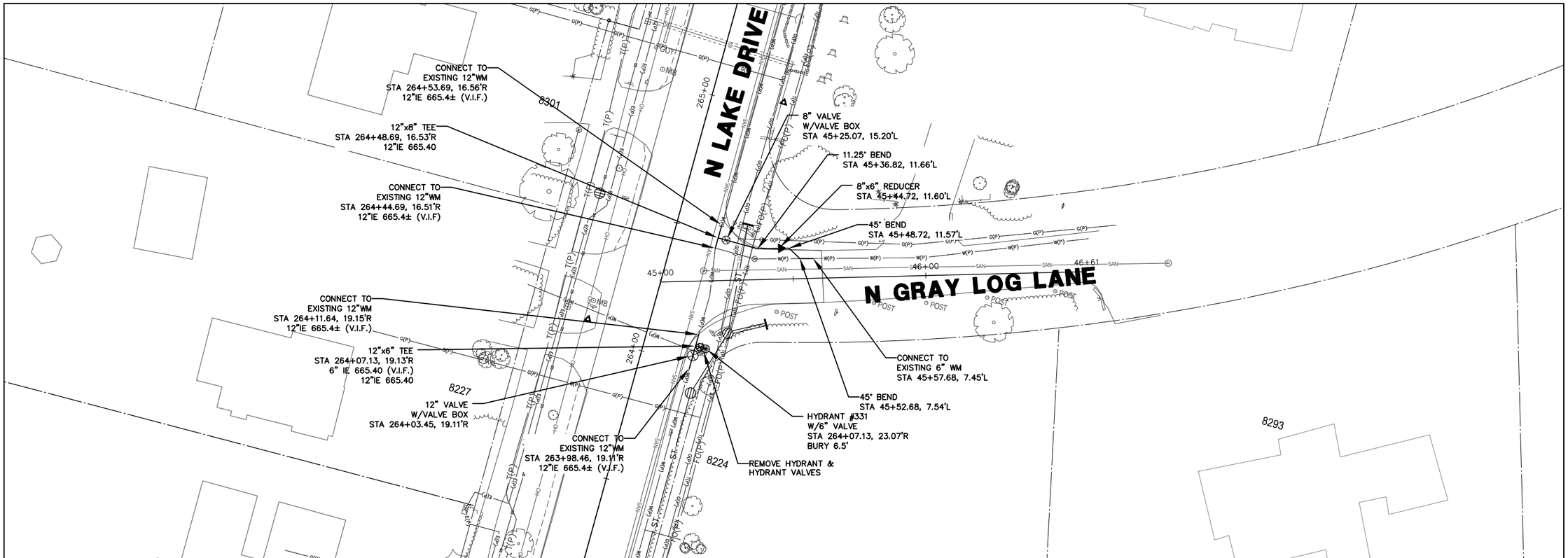
SEAL:

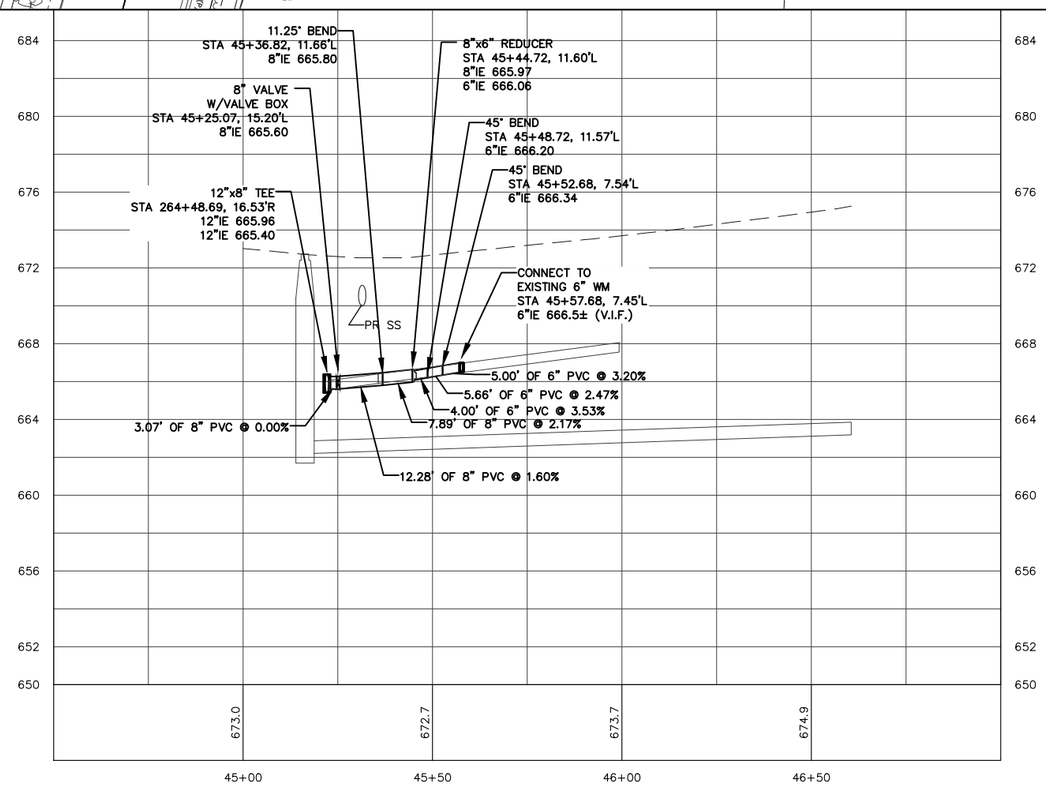
all in

SHEET:
E. GOODRICH LANE
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:
178 --





kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

SHEET:

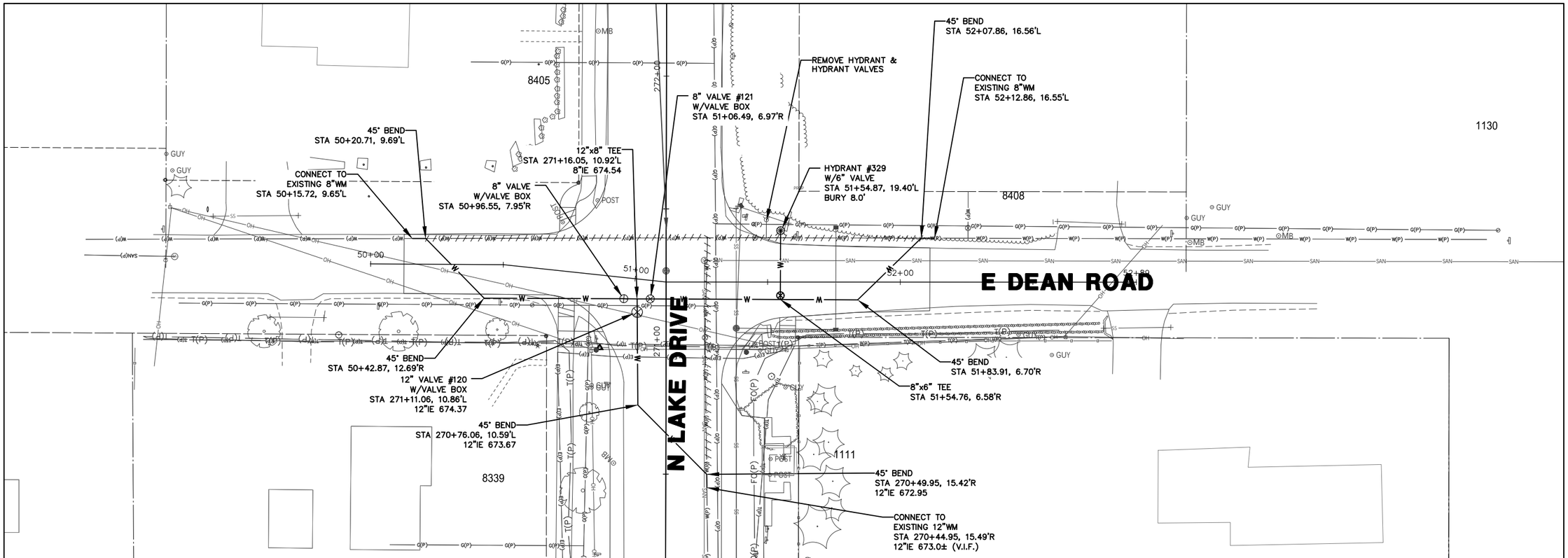
N. GRAY LOG LANE
WATER MAIN

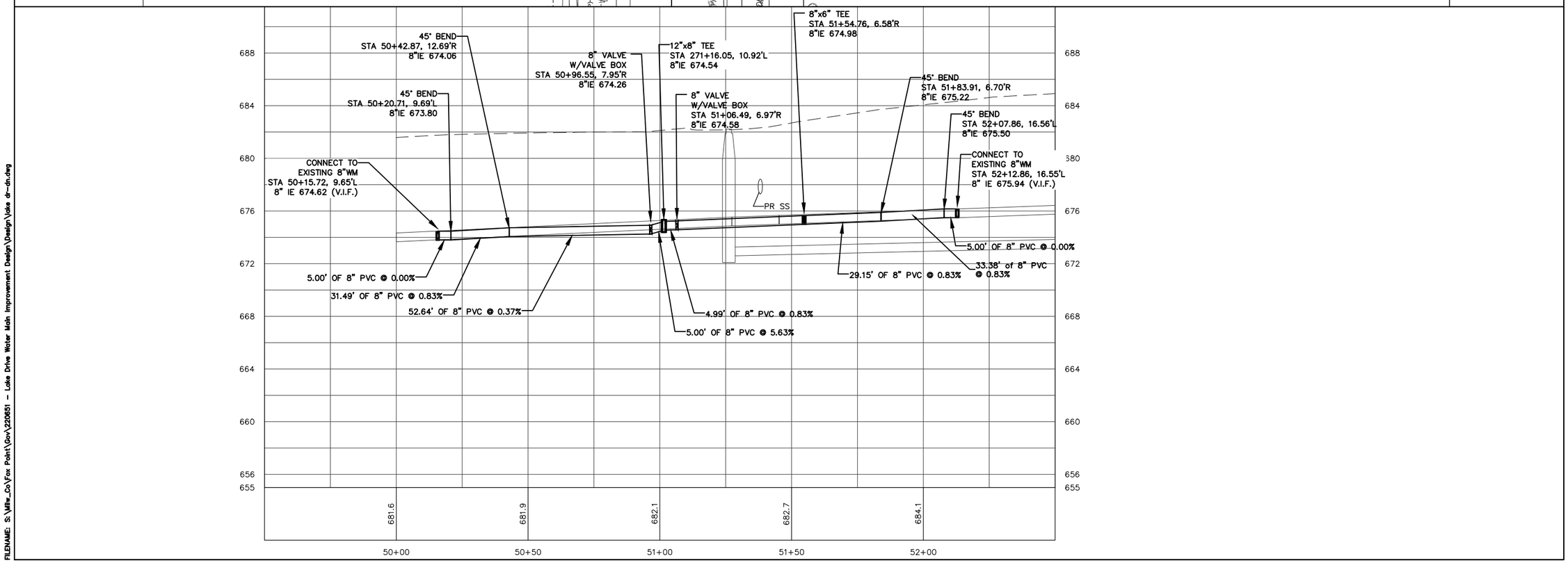
PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:

179 --

FILENAME: S:\Milw_Co\Fox Point\Gov\220651 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg





kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

PROJECT:

ID 2225-00-83
STH 32 SCHOOL RD
TO DEAN RD
WATERMAIN

LOCATION:

VILLAGE OF FOX POINT

CLIENT:

VILLAGE OF FOX POINT

RELEASE:

CONSTRUCTION SET

REVISIONS:

#	DATE	DESCRIPTION
1	3/1/24	DT1078 UTILITY PLANS
2	7/1/24	90% PLANS
3	11/1/24	FINAL PS&E
4	10/15/24	CONSTRUCTION SET

NORTH ARROW:

VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

0 10 20 30 40

SEAL:

all in

SHEET:

E. DEAN ROAD
WATER MAIN

PROJECT MANAGER:	YA
PROJECT NUMBER:	22.0651.01
DATE:	10/15/24

SHEET NUMBER:

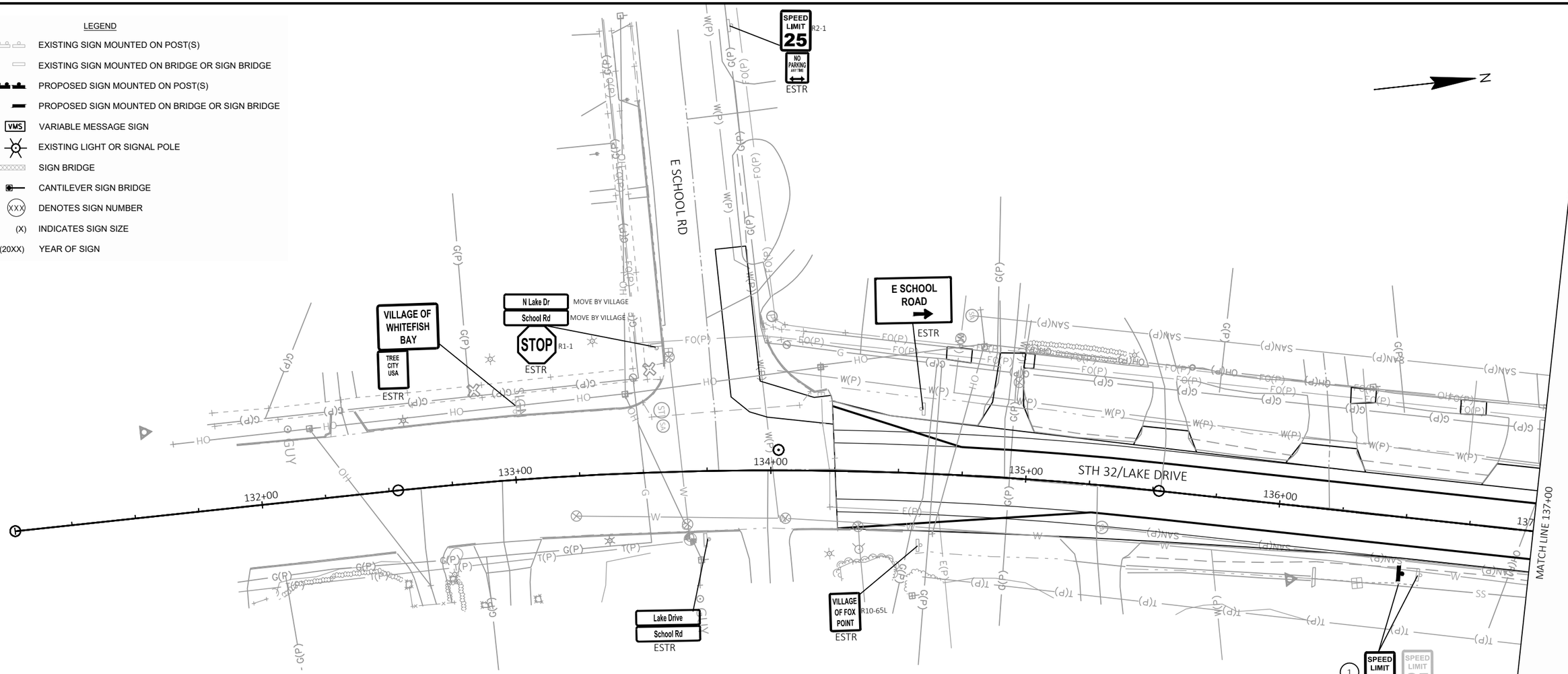
180 --

FILENAME: S:\Milw_Co\Fox Point\Gov\220651 - Lake Drive Water Main Improvement Design\Design\Lake dr-dn.dwg

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- 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
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN



TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

SIGNING COORDINATOR	COUNTIES	PHONE #
BREE JOHNS-KONKEL	MILWAUKEE, RACINE, OZAUKEE, WASHINGTON	414-750-2814
CHUCK SALDIVAR	KENOSHA, WALWORTH, WAUKESHA	414-750-1682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (GENERAL PHONE # 414-266-1164) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

WHEN AN EXISTING STOP SIGN SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED, THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

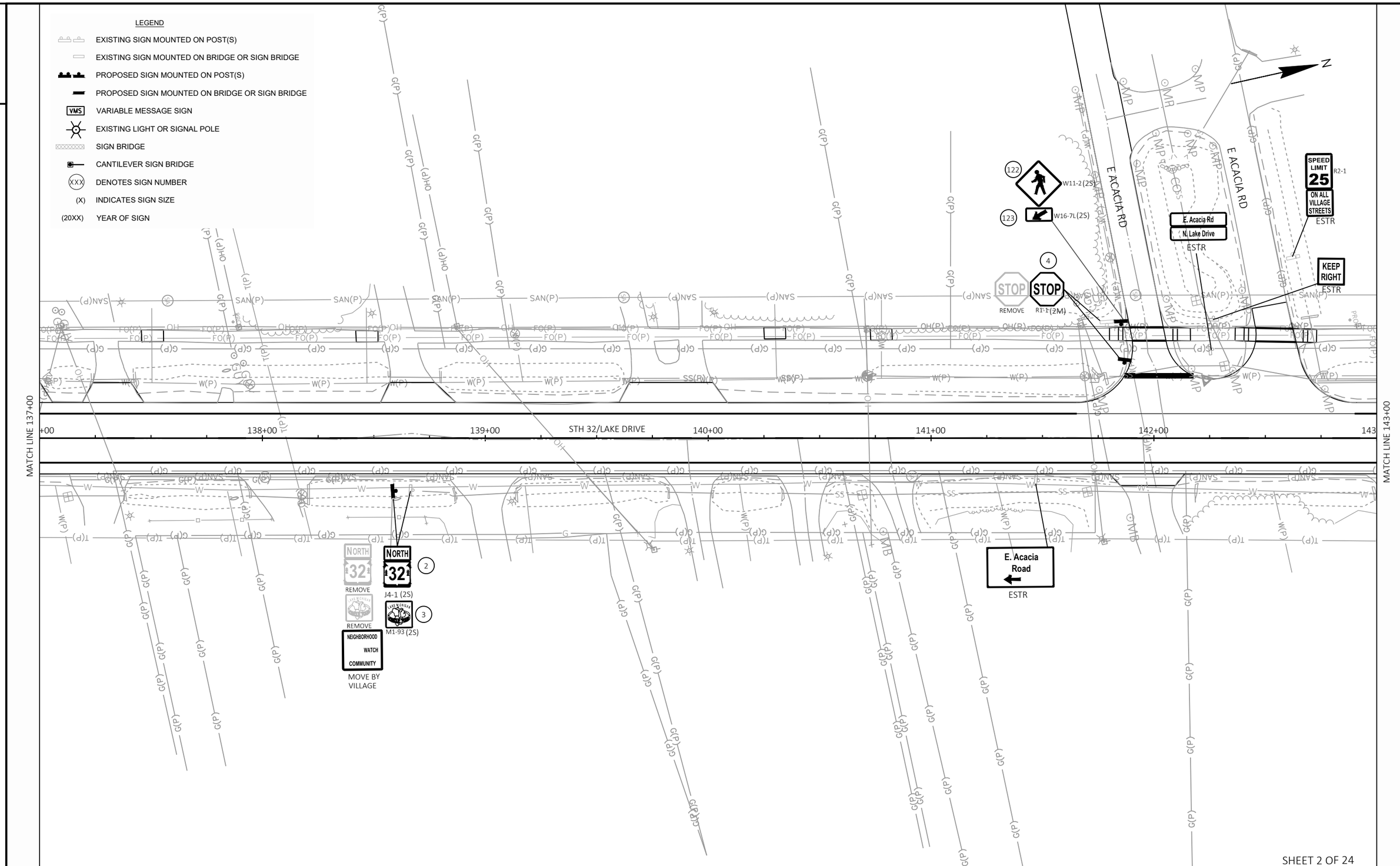
WOOD POST SIZES FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

STREET NAME SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL STREET NAME SIGNS. THE STREET NAME SIGNS SHALL NOT BE PLACED ON TOP OF THE STOP SIGNS.

LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

BOX OUT OR CORING OF CONCRETE SIGN POSTS IS INCIDENTAL TO THE POST

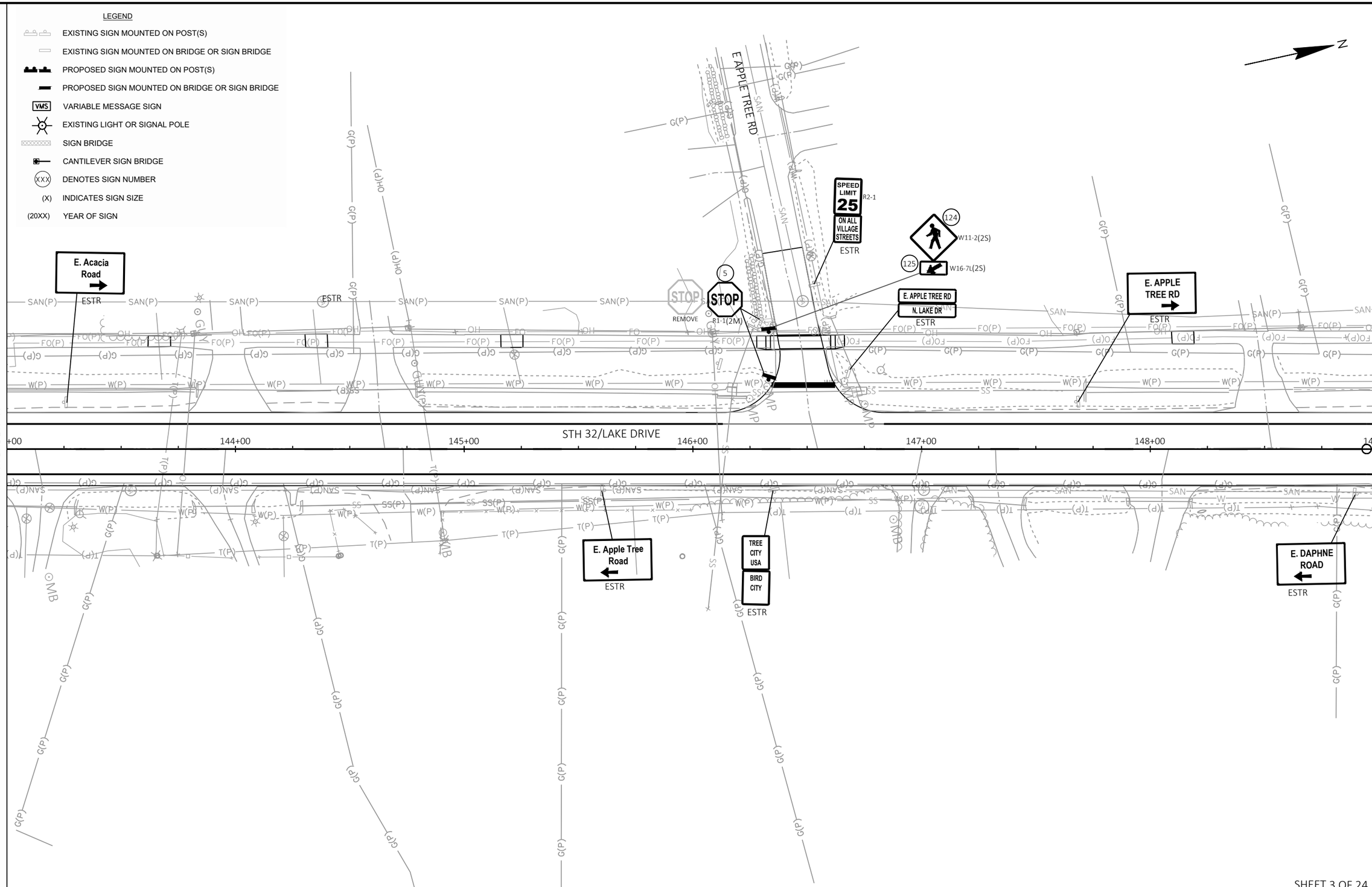
SHEET 1 OF 24


LEGEND
EXISTING SIGN MOUNTED ON POST(S)
EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
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
(X) INDICATES SIGN SIZE
(20XX) YEAR OF SIGN
MATCH LINE 137+00
138+00
139+00
STH 32/LAKE DRIVE
140+00
141+00
142+00
MATCH LINE 143+00
E ACACIA RD
E ACACIA RD
122
W11-2 (2S)
123
W16-7L (2S)
4
STOP
STOP
REMOVE
R1-1 (2M)
SPEED LIMIT 25
R2-1
ON ALL VILLAGE STREETS
ESTR
E. Acacia Rd
N. Lake Drive
ESTR
KEEP RIGHT
ESTR
NORTH 32
REMOVE
NORTH 32
2
J4-1 (2S)
REMOVE
3
M1-93 (2S)
NEIGHBORHOOD WATCH COMMUNITY
MOVE BY VILLAGE
E. Acacia Road
ESTR
N

SHEET 2 OF 24

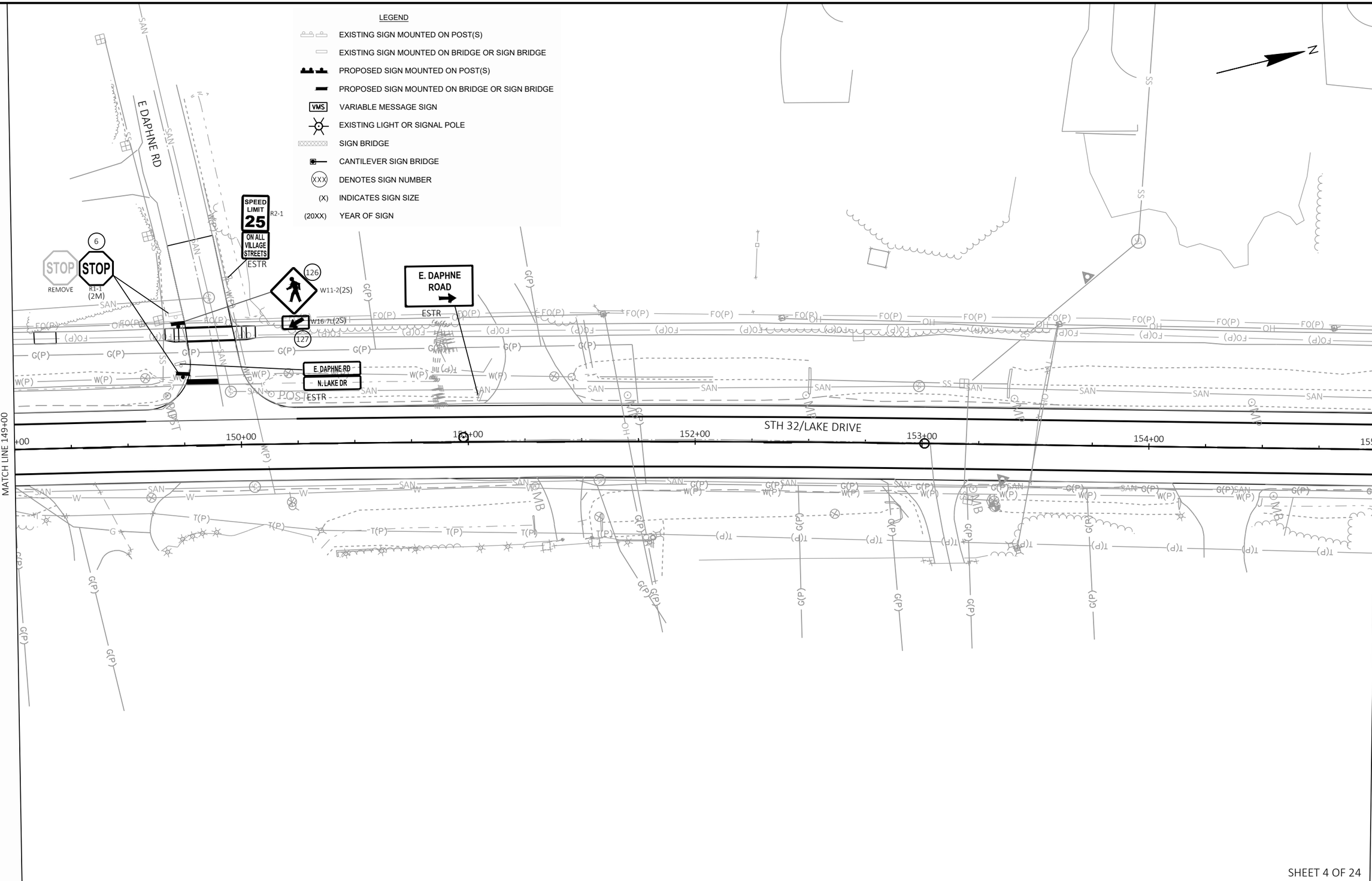
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- 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
- (X) INDICATES SIGN SIZE
- (20XX) YEAR OF SIGN



SHEET 3 OF 24

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 183	E



SHEET 4 OF 24

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 184	E

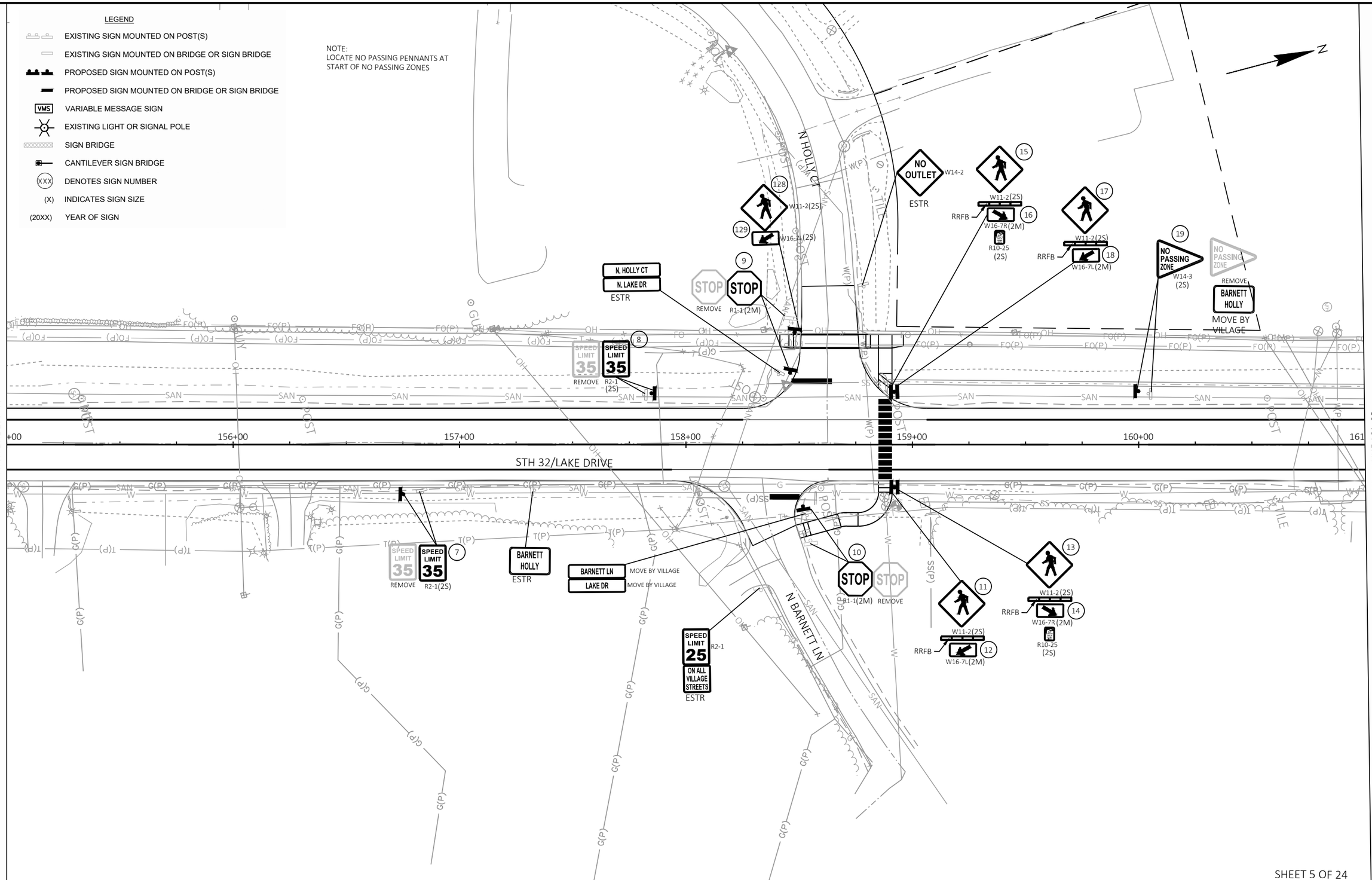
FILE NAME : X:\ML\2024\20240186\DESIGN\TRANSPORTATION\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023204-ps
PLOT DATE : 10/16/2024 1:56 PM PLOT BY : ROGAHN, DOUG PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- 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
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

NOTE:
LOCATE NO PASSING PENNANTS AT
START OF NO PASSING ZONES



SHEET 5 OF 24

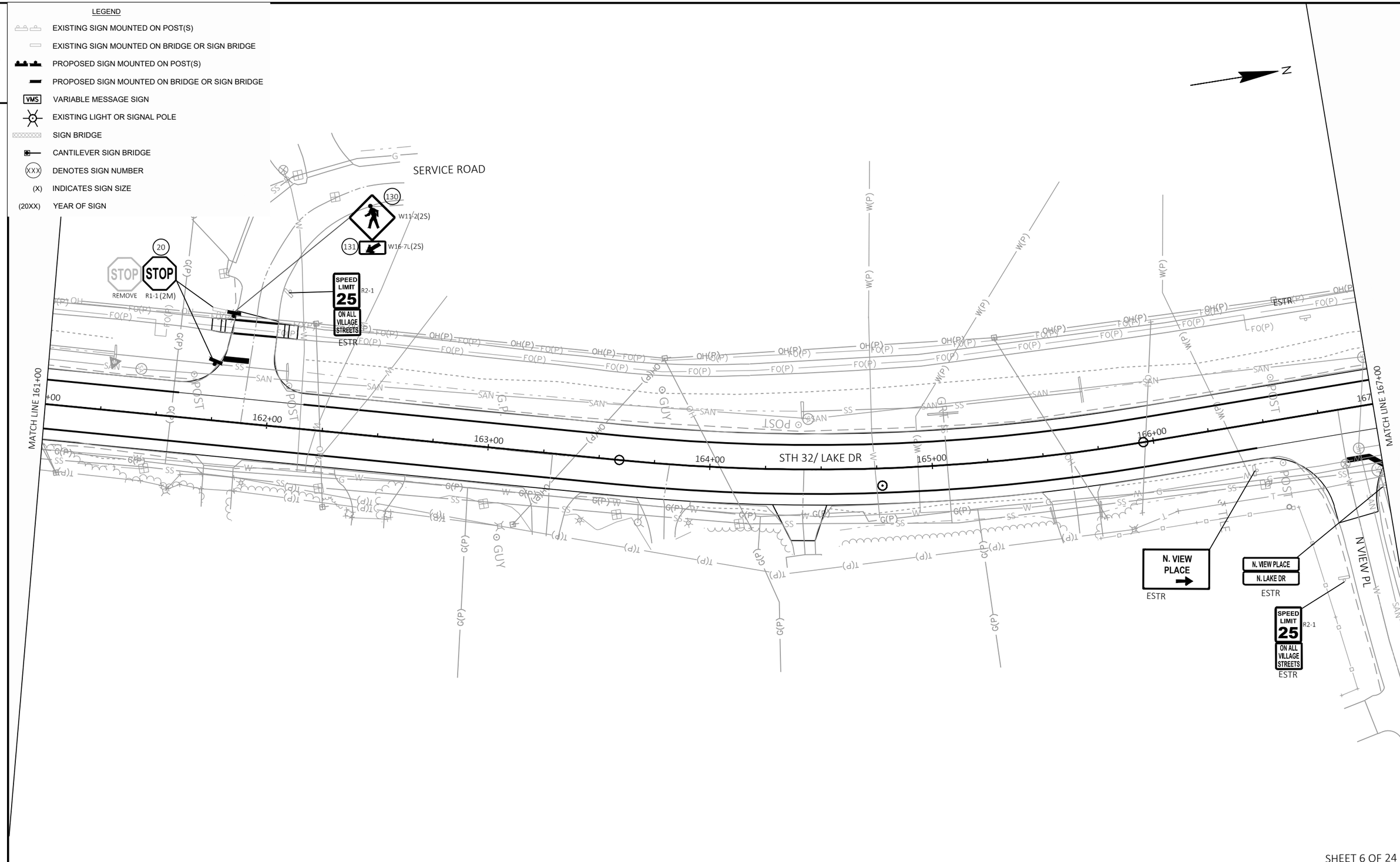
2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 185	E

FILE NAME : X:\ML\2024\20240186\DESIGN\TRANSPORTATION\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023205-ps
PLOT DATE : 10/16/2024 1:56 PM PLOT BY : ROGAHN, DOUG PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- 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
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN



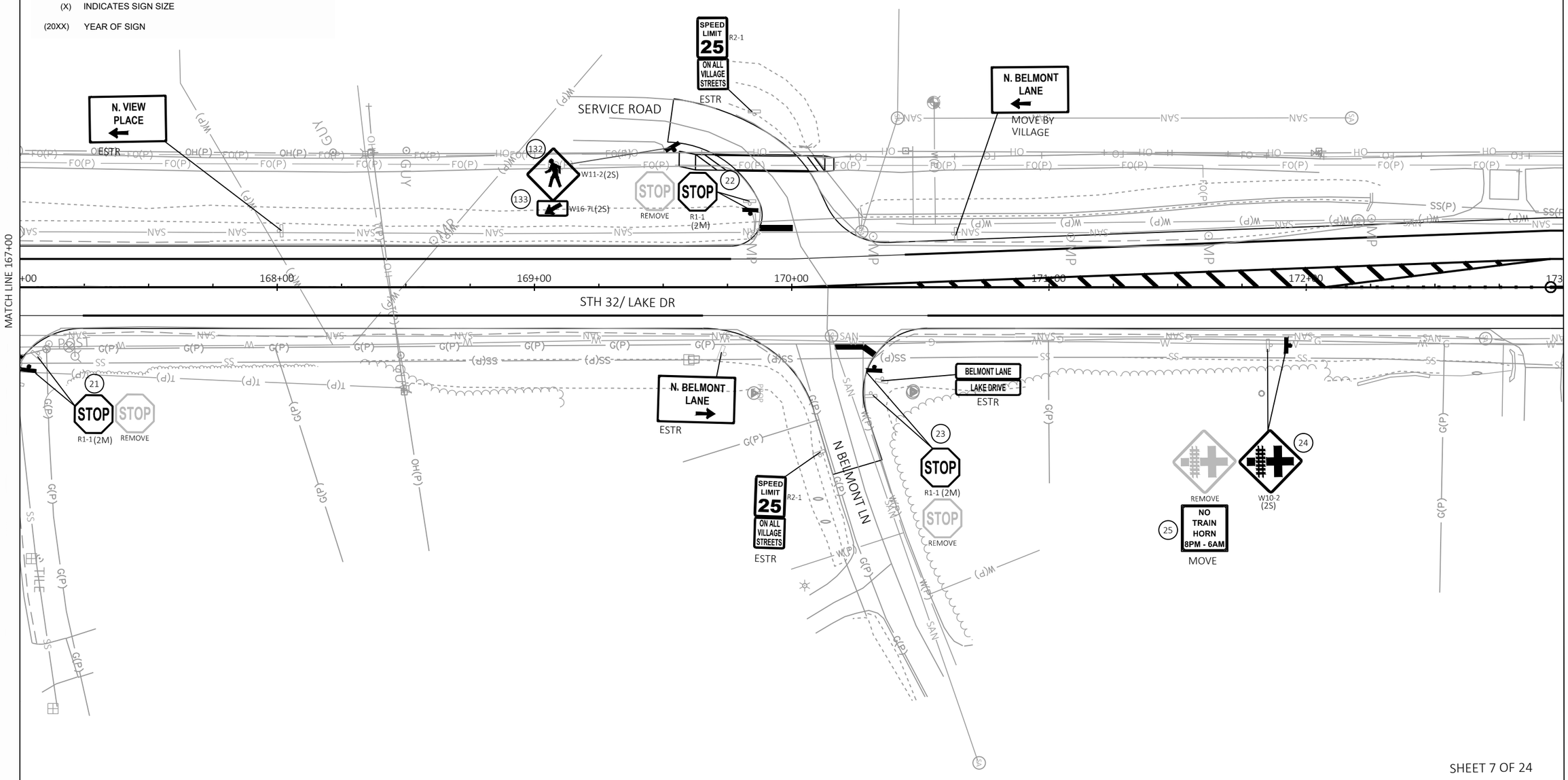
SHEET 6 OF 24

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 186	E

FILE NAME : X:\ML\2024\20240186\DESIGN\TRANSPORTATION\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023206-ps
PLOT DATE : 10/16/2024 1:56 PM PLOT BY : ROGAHN, DOUG PLOT NAME : PLOT SCALE : 1 IN:40 FT

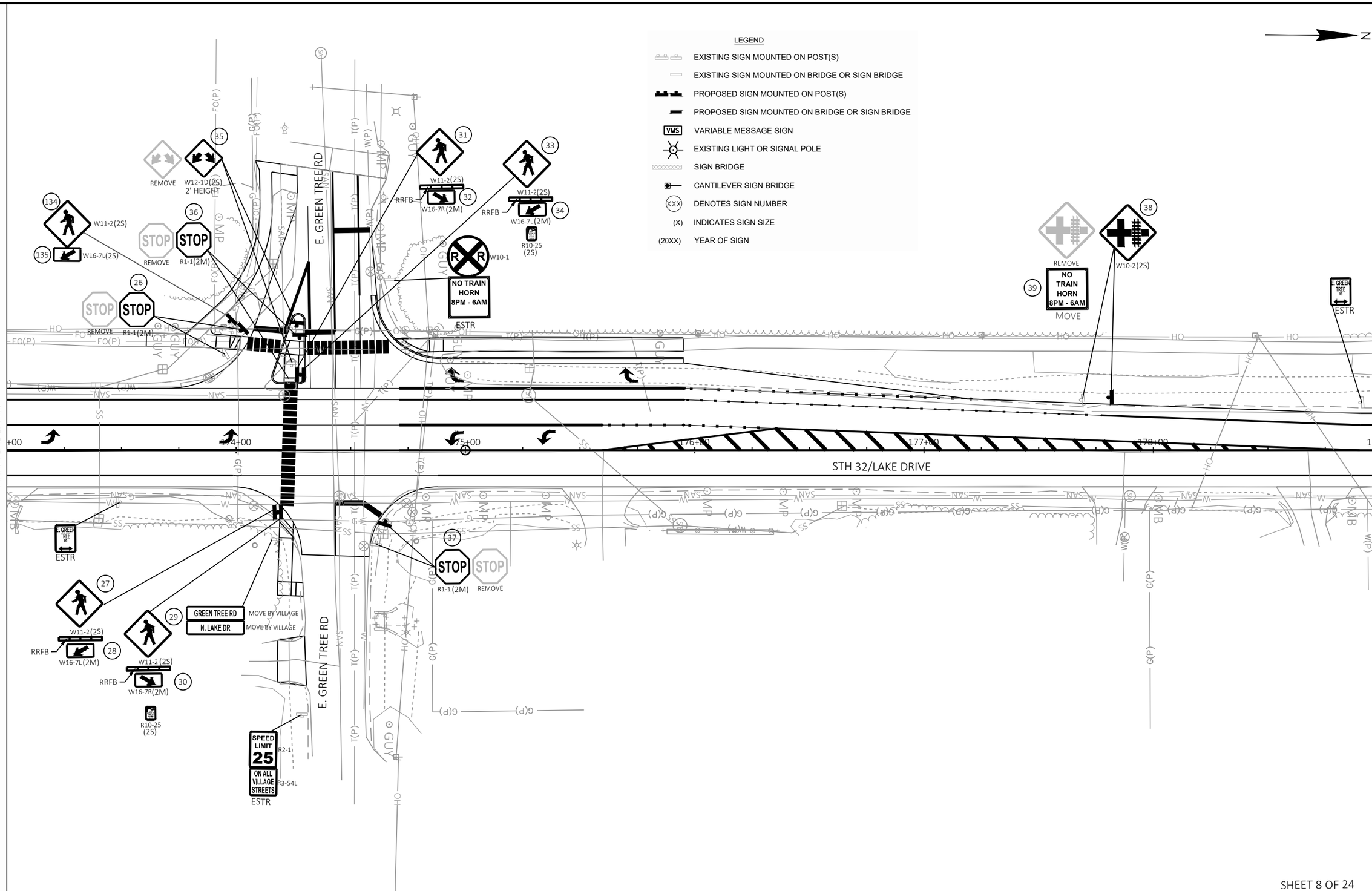
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- 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
- (X) INDICATES SIGN SIZE
- (20XX) YEAR OF SIGN



SHEET 7 OF 24

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 187	E



SHEET 8 OF 24

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 188	E

FILE NAME : X:\ML\2024\20240186\DESIGN\TRANSPORTATION\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023208-ps
PLOT DATE : 10/16/2024 1:56 PM PLOT BY : ROGAHN, DOUG PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

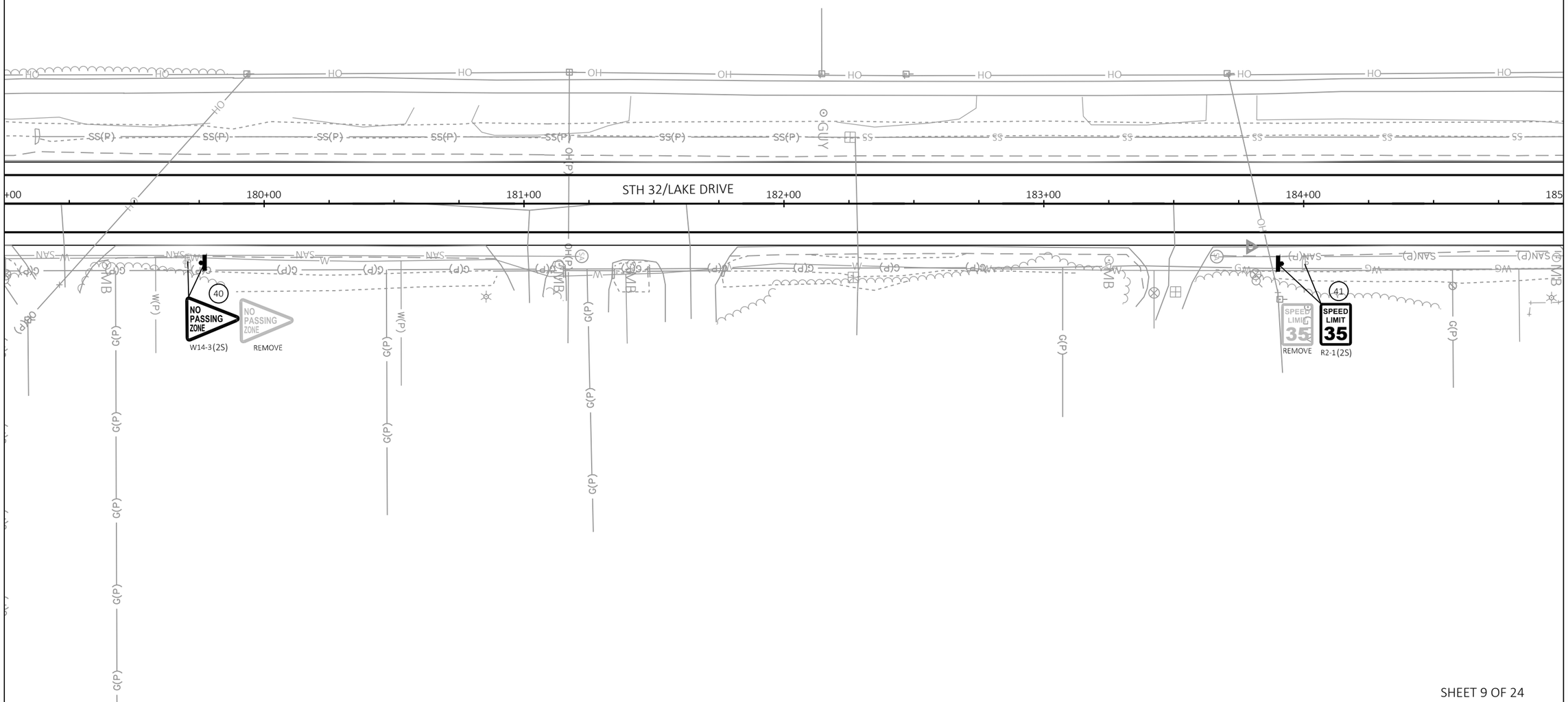
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- 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
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

NOTE:
LOCATE NO PASSING PENNANTS AT
START OF NO PASSING ZONES

N



SHEET 9 OF 24

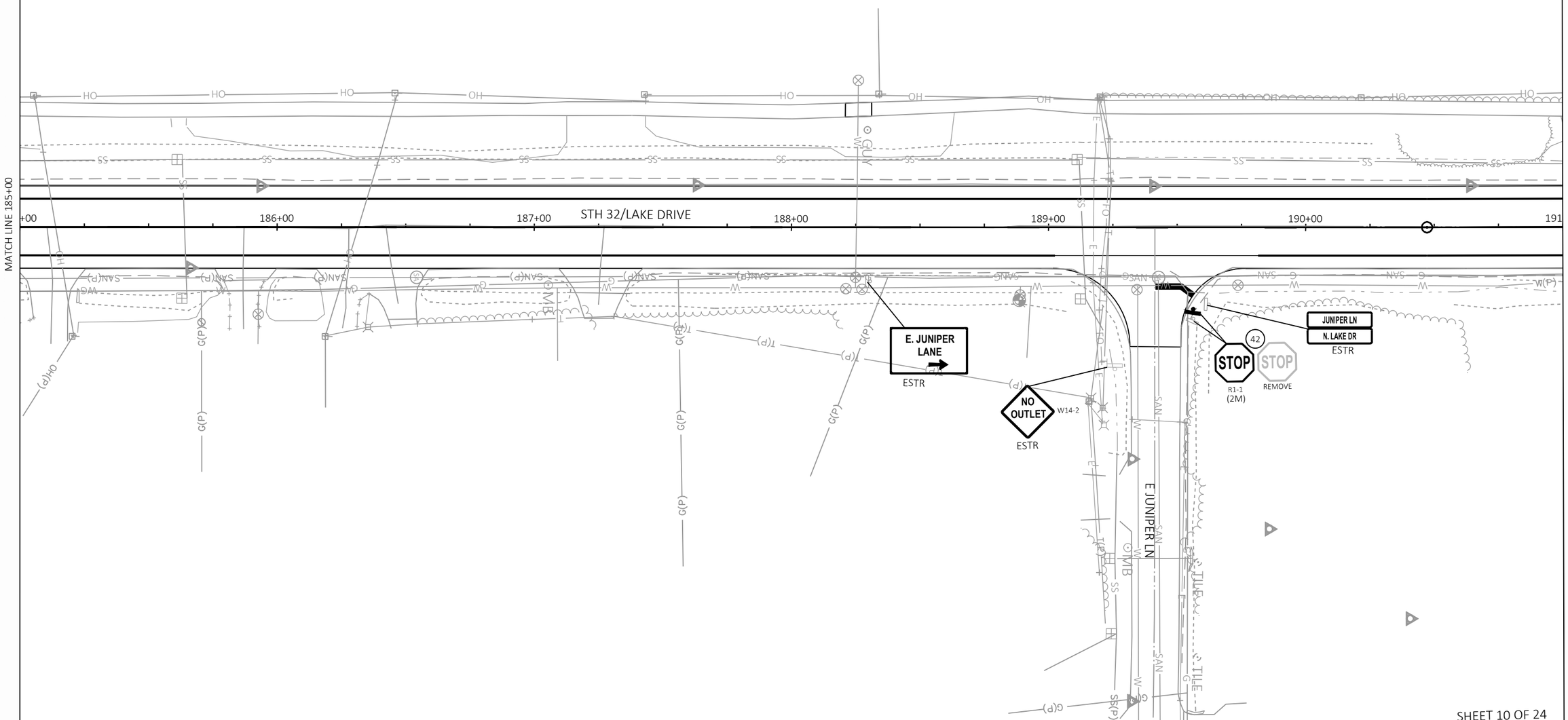
2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 189	E

FILE NAME : X:\ML\2024\20240186\DESIGN\TRANSPORTATION\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023209-ps
PLOT DATE : 10/16/2024 1:56 PM PLOT BY : ROGAHN, DOUG PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- 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
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN



SHEET 10 OF 24

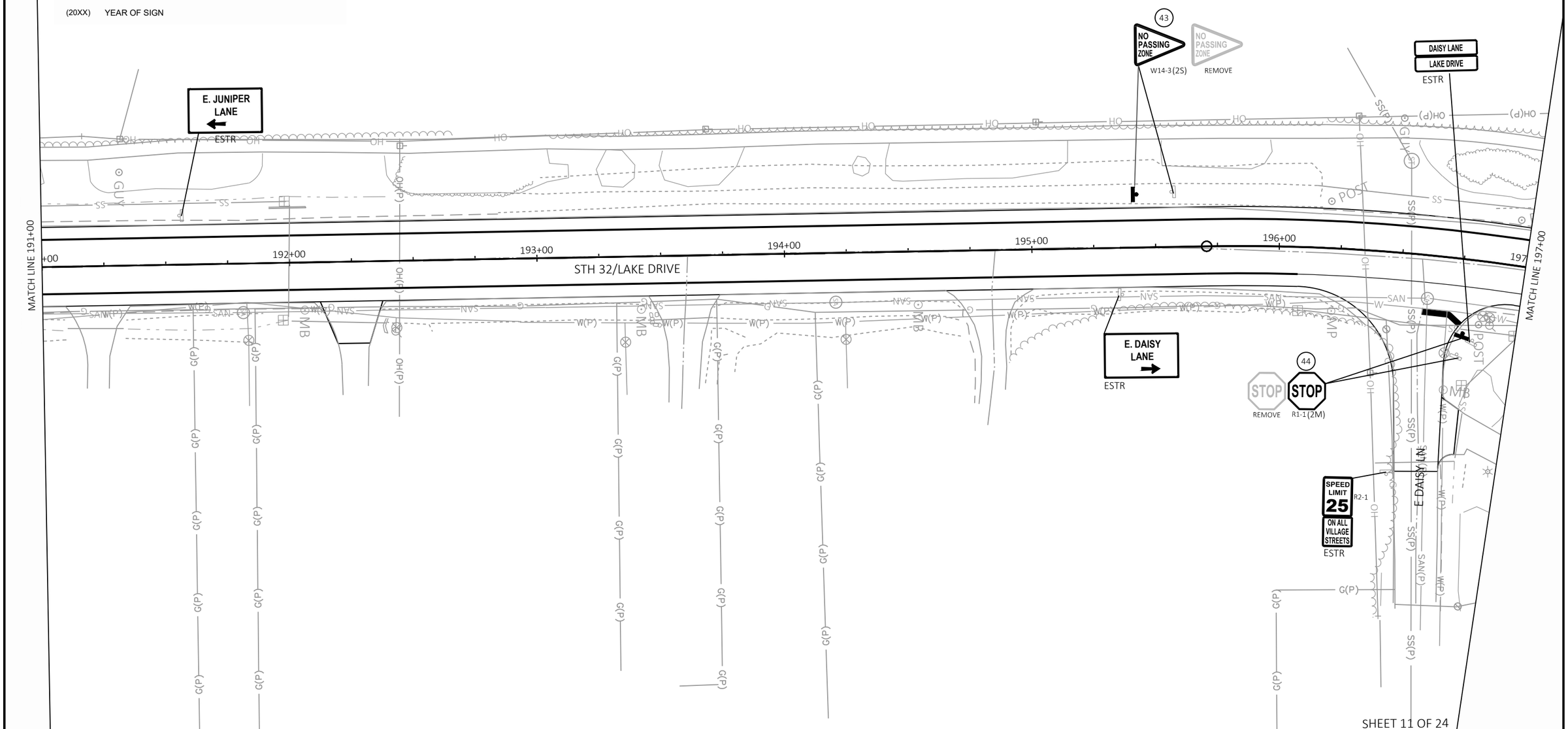
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 190	E

FILE NAME : X:\ML\2024\20240186\DESIGN\TRANSPORTATION\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023210-ps
PLOT DATE : 10/16/2024 1:56 PM PLOT BY : ROGAHN, DOUG PLOT NAME : PLOT SCALE : 1 IN:40 FT

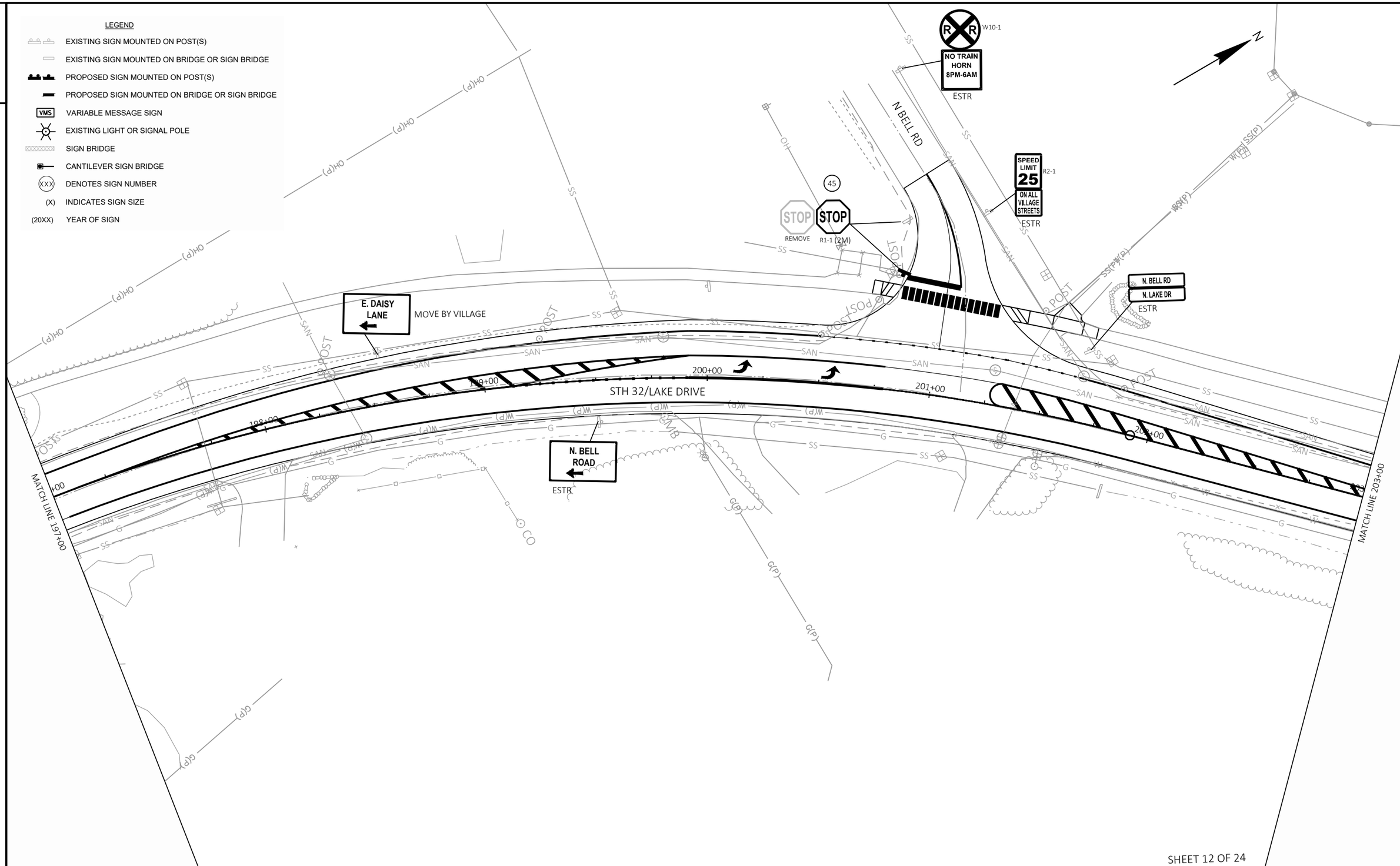
LEGEND

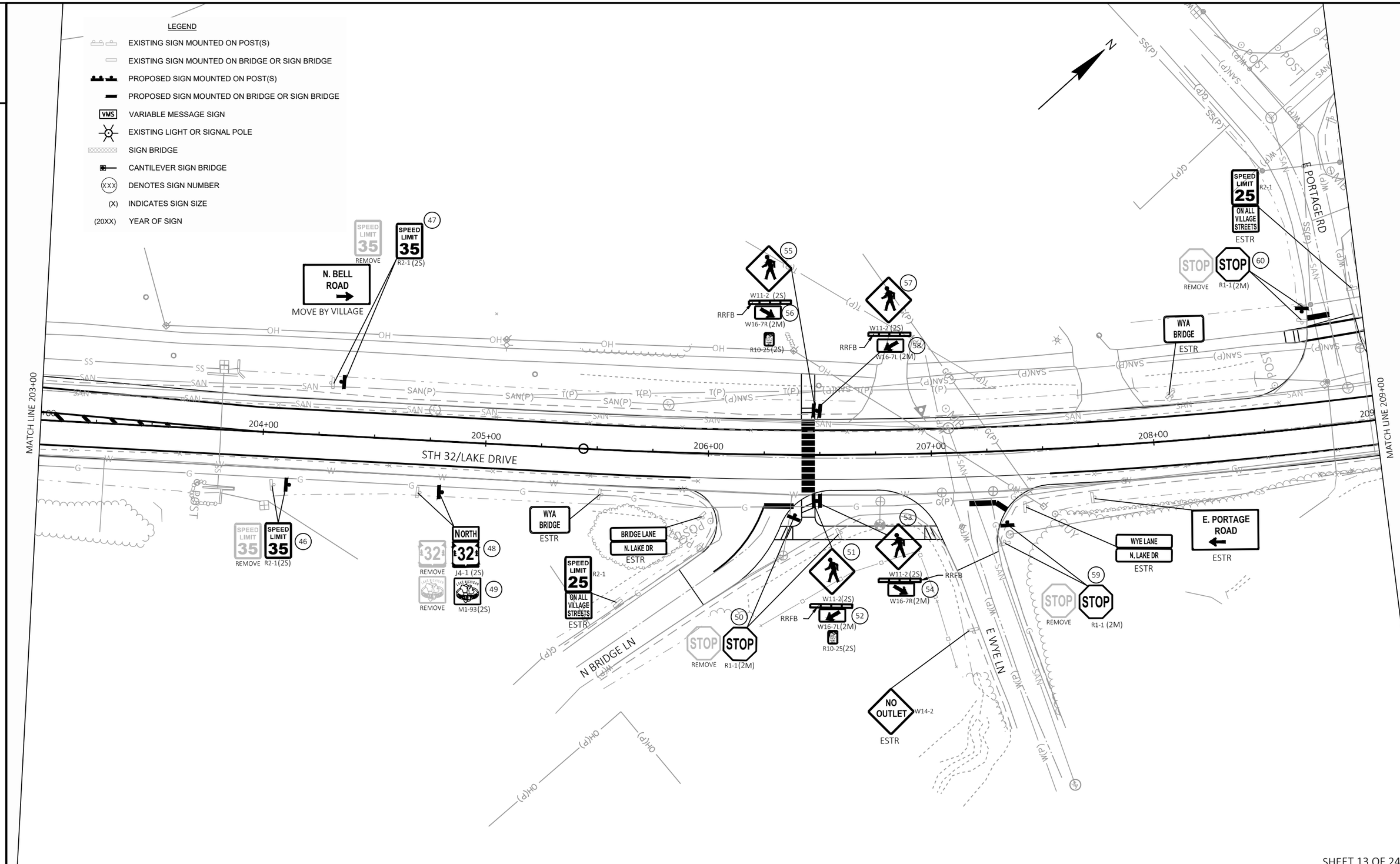
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

NOTE:
LOCATE NO PASSING PENNANTS AT
START OF NO PASSING ZONES



SHEET 11 OF 24


LEGEND
EXISTING SIGN MOUNTED ON POST(S)
EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
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
(X) INDICATES SIGN SIZE
(20XX) YEAR OF SIGN
W10-1
NO TRAIN HORN 8PM-6AM
ESTR
N BELL RD
SPEED LIMIT 25 ON ALL VILLAGE STREETS
R2-1
ESTR
45
STOP
REMOVE
STOP
R1-1 (2M)
N. BELL RD
N. LAKE DR
ESTR
E. DAISY LANE
MOVE BY VILLAGE
STH 32/LAKE DRIVE
199+00
200+00
201+00
202+00
198+00
N. BELL ROAD
ESTR
MATCH LINE 197+00
MATCH LINE 203+00
N
SHEET 12 OF 24



SHEET 13 OF 24

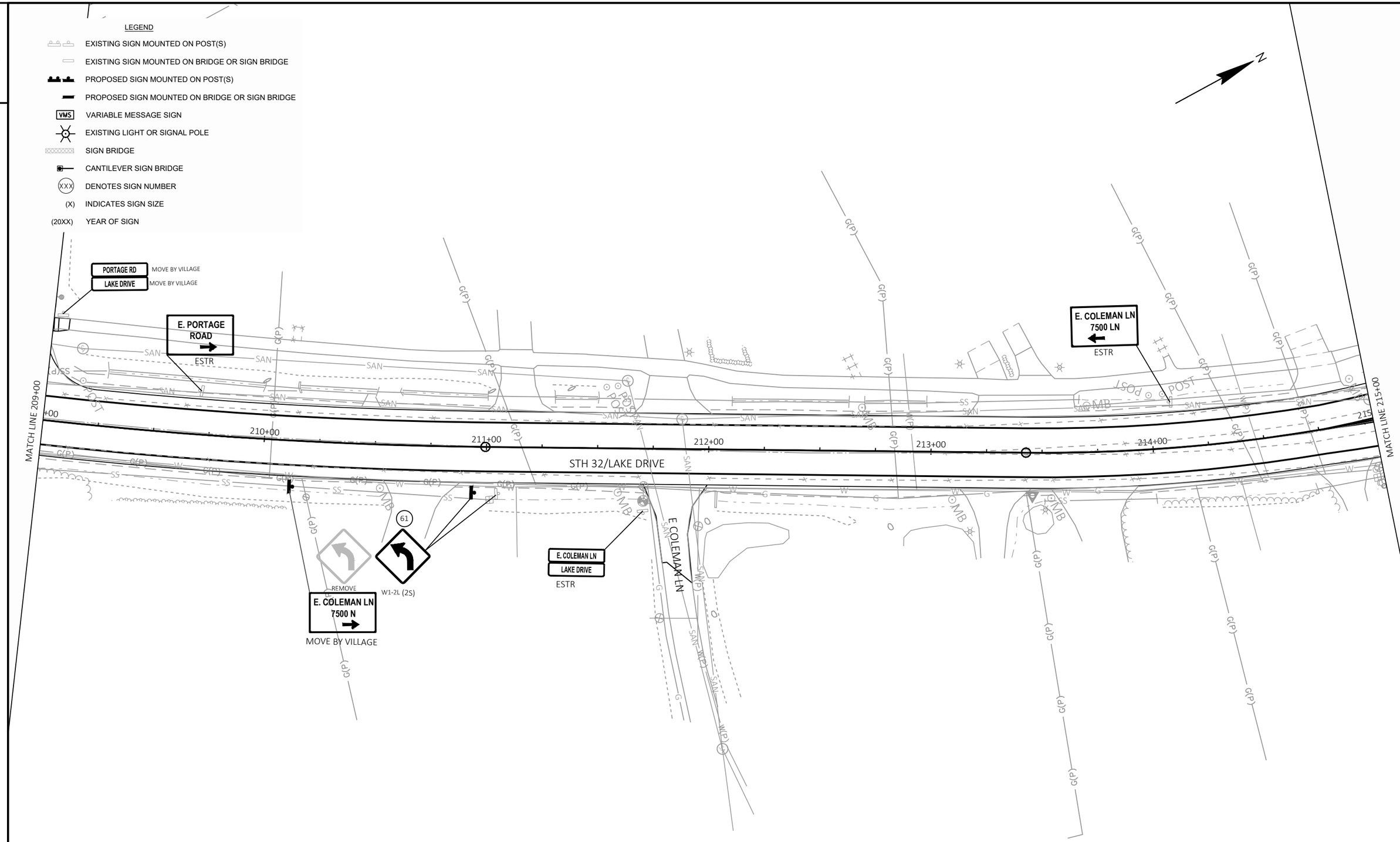
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 193	E

FILE NAME : X:\ML\2024\20240186\DESIGN\TRANSPORTATION\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023213-ps
PLOT DATE : 10/16/2024 1:56 PM PLOT BY : ROGAHN, DOUG PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- 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
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN



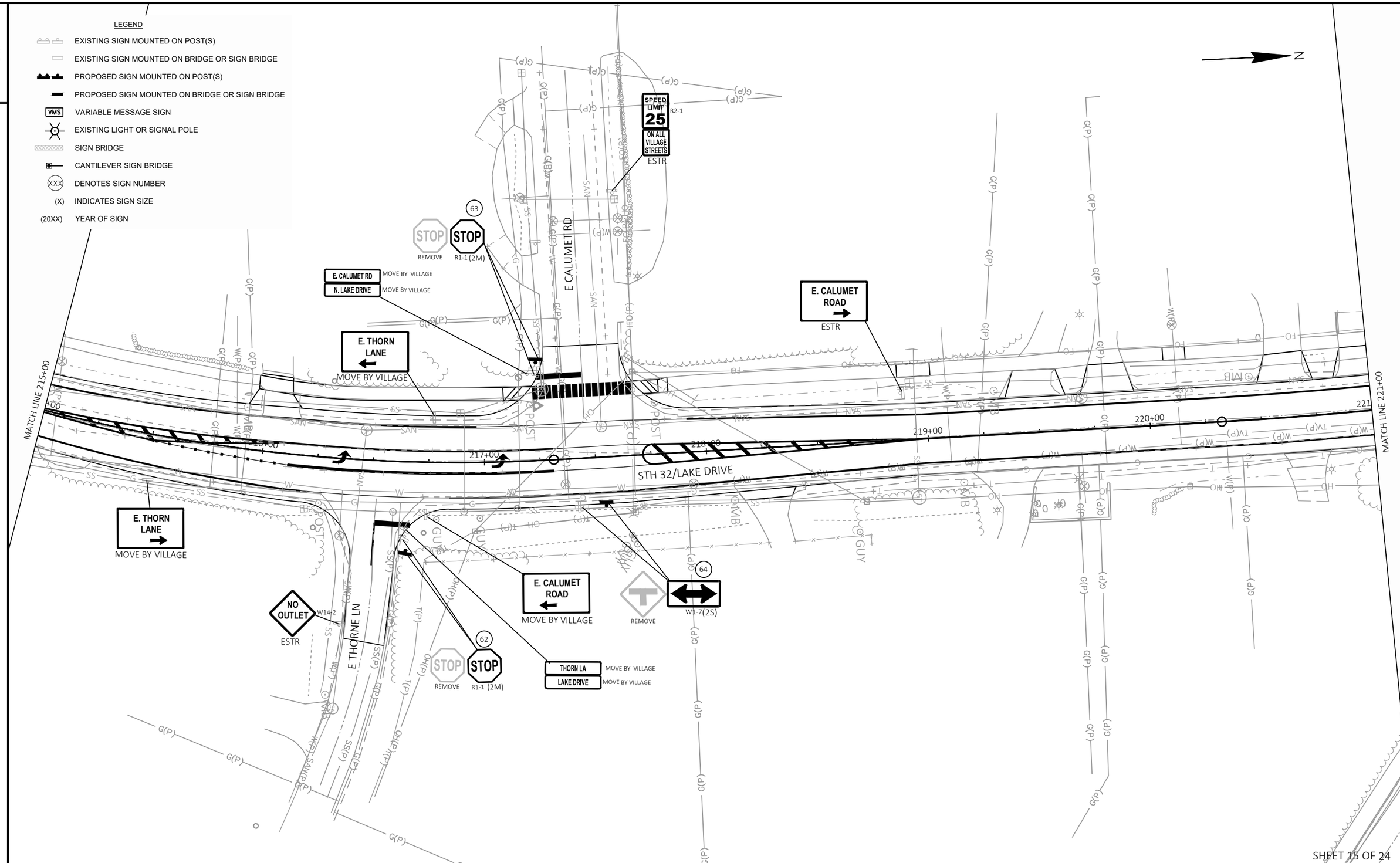
SHEET 14 OF 24

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 194	E

2

LEGEND

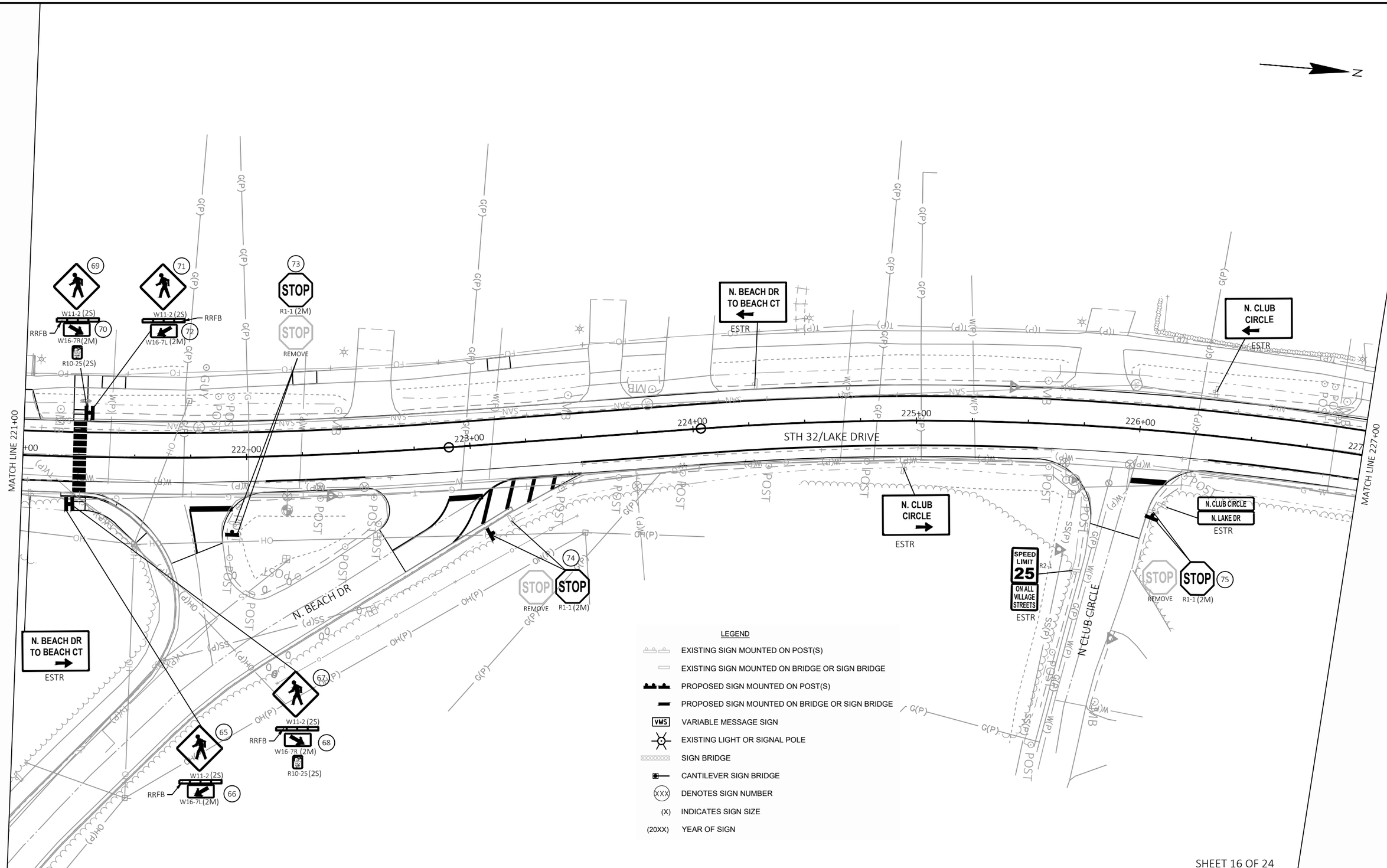
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN



SHEET 15 OF 24

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 195	E

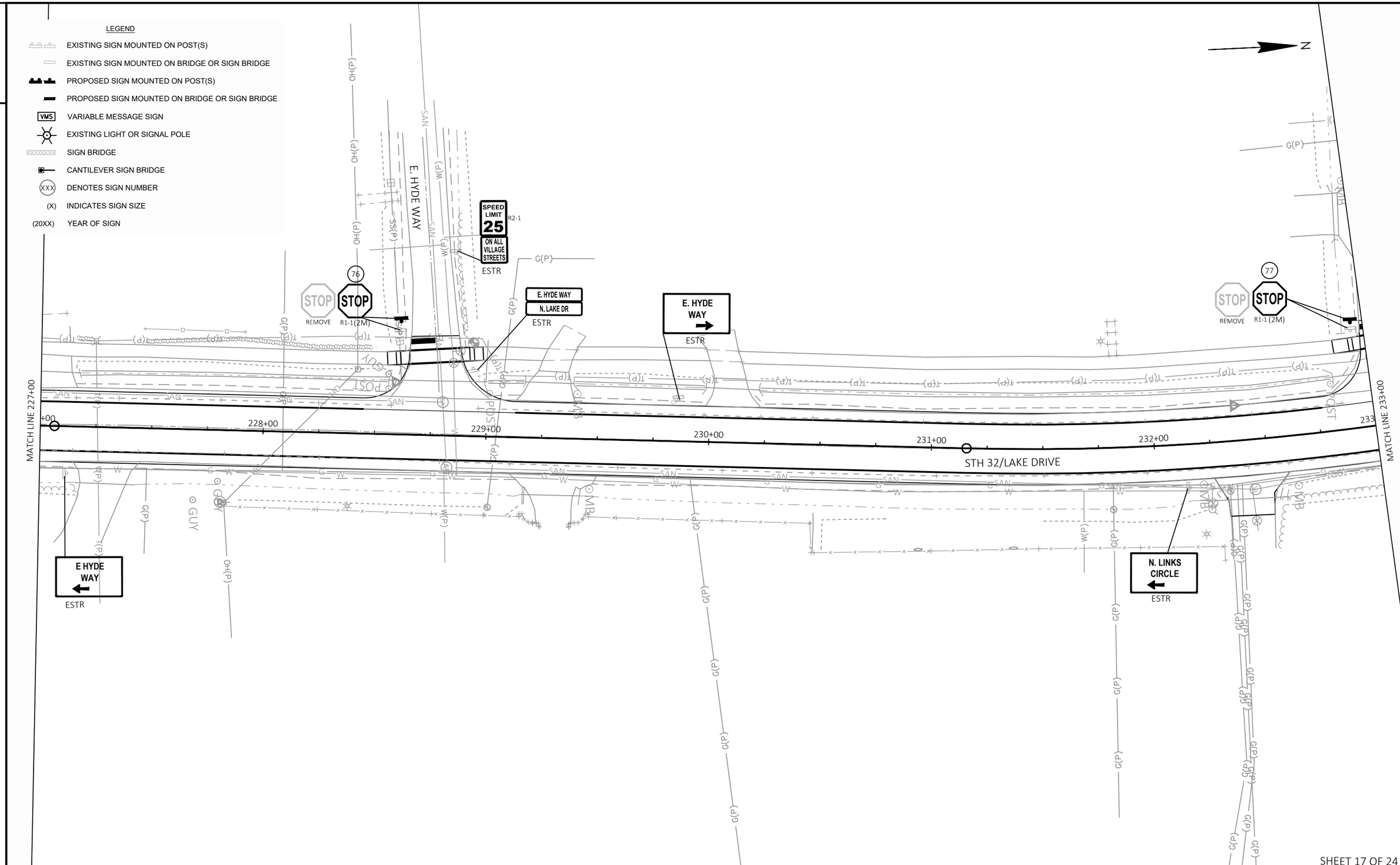
FILE NAME : X:\ML\2024\20240186\DESIGN\TRANSPORTATION\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023215-ps
PLOT DATE : 10/16/2024 1:57 PM PLOT BY : ROGAHN, DOUG PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

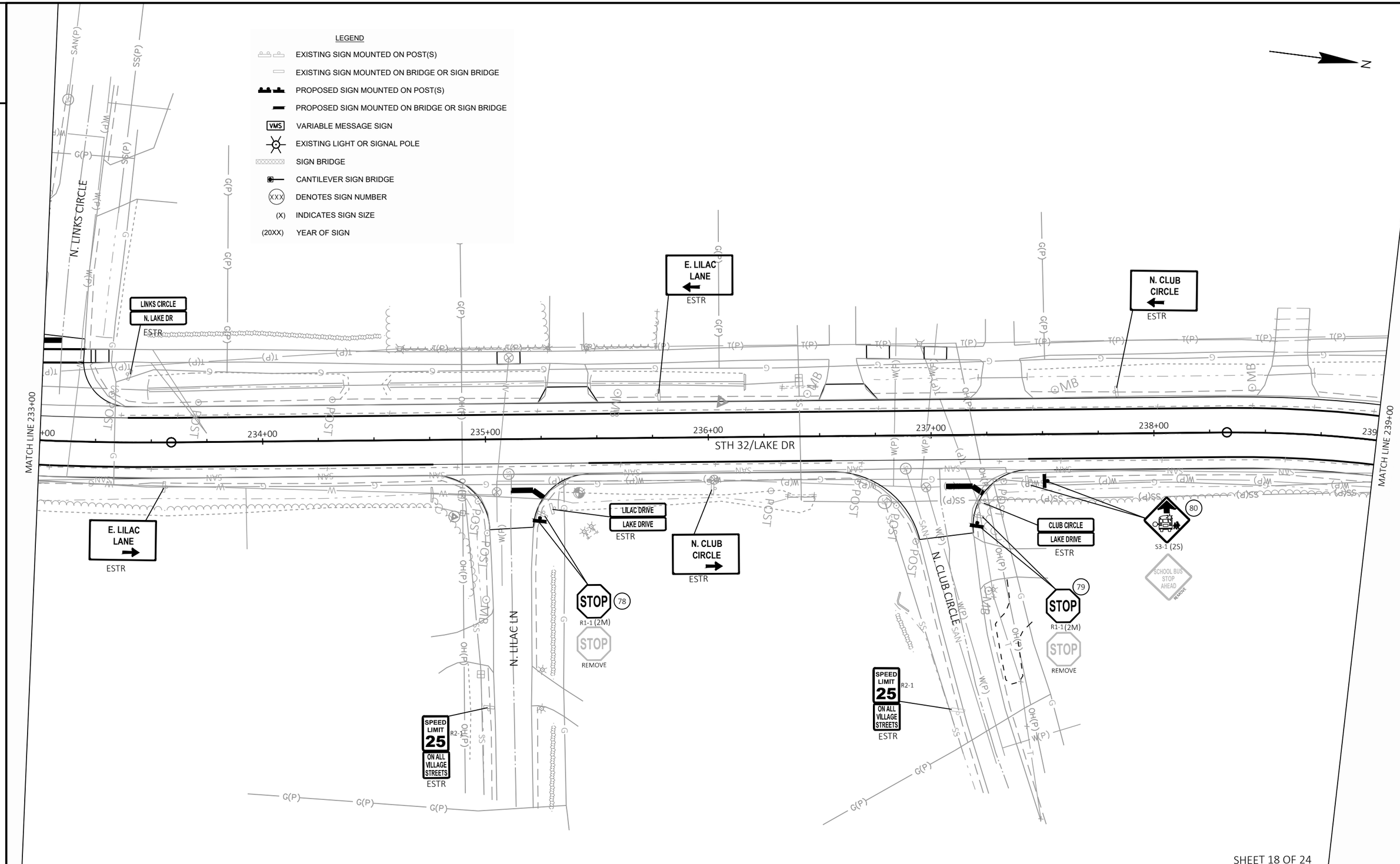


SHEET 16 OF 24

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 196	E

FILE NAME : X:\ML\2024\20240186\DESIGN\TRANSPORTATION\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023216-ps
PLOT DATE : 10/16/2024 1:57 PM PLOT BY : ROGAHN, DOUG PLOT NAME : PLOT SCALE : 1 IN:40 FT

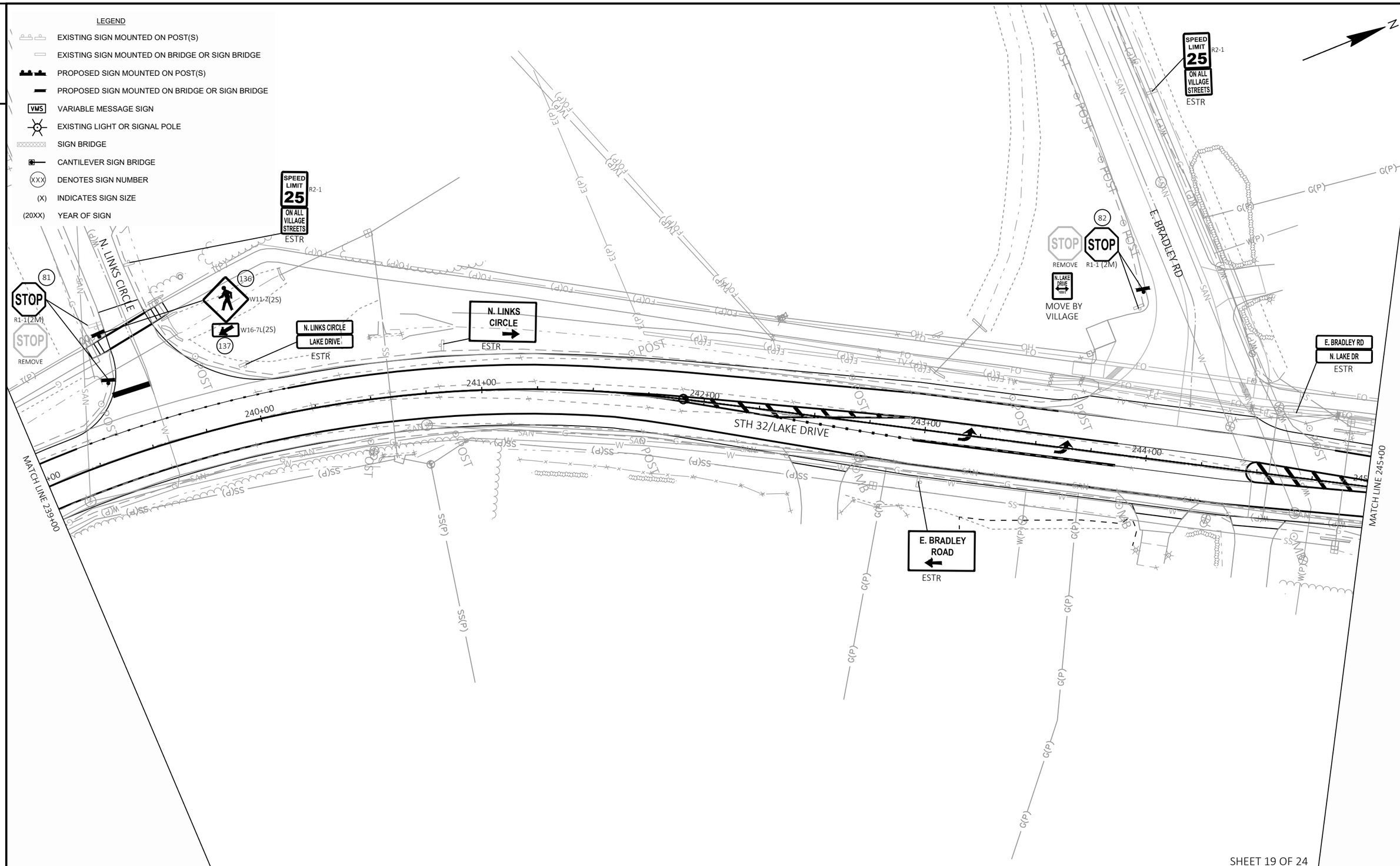

LEGEND
EXISTING SIGN MOUNTED ON POST(S)
EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
PROPOSED SIGN MOUNTED ON POST(S)
PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
VMS VARIABLE MESSAGE SIGN
EXISTING LIGHT OR SIGNAL POLE
SIGN BRIDGE
CANTILEVER SIGN BRIDGE
XXX DENOTES SIGN NUMBER
(X) INDICATES SIGN SIZE
(20XX) YEAR OF SIGN
N
E. HYDE WAY
SPEED LIMIT 25 R2-1
ON ALL VILLAGE STREETS
ESTR
76
STOP
REMOVE
R1-1(2M)
E. HYDE WAY
N. LAKE DR
ESTR
E. HYDE WAY
ESTR
77
STOP
REMOVE
R1-1 (2M)
MATCH LINE 227+00
228+00
229+00
230+00
231+00
232+00
233
MATCH LINE 233+00
STH 32/LAKE DRIVE
E HYDE WAY
ESTR
N. LINKS CIRCLE
ESTR
SHEET 17 OF 24


LEGEND
EXISTING SIGN MOUNTED ON POST(S)
EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
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
(X) INDICATES SIGN SIZE
(20XX) YEAR OF SIGN
N
MATCH LINE 233+00
MATCH LINE 239+00
234+00
235+00
236+00
237+00
238+00
STH 32/LAKE DR
N. LINKS CIRCLE
N. LILAC LN
N. CLUB CIRCLE
LINKS CIRCLE
N. LAKE DR
ESTR
E. LILAC LANE
ESTR
LILAC DRIVE
LAKE DRIVE
ESTR
N. CLUB CIRCLE
ESTR
CLUB CIRCLE
LAKE DRIVE
ESTR
STOP
78
R1-1 (2M)
STOP
REMOVE
STOP
79
R1-1(2M)
STOP
REMOVE
80
S3-1 (2S)
SCHOOL BUS STOP AHEAD
REMOVE
SPEED LIMIT 25 ON ALL VILLAGE STREETS
R2-1
ESTR
SPEED LIMIT 25 ON ALL VILLAGE STREETS
R2-1
ESTR
SHEET 18 OF 24

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- 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
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN



SHEET 19 OF 24

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 199	E

FILE NAME : X:\ML\2024\20240186\DESIGN\TRANSPORTATION\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023219-ps
PLOT DATE : 10/16/2024 1:57 PM PLOT BY : ROGAHN, DOUG PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
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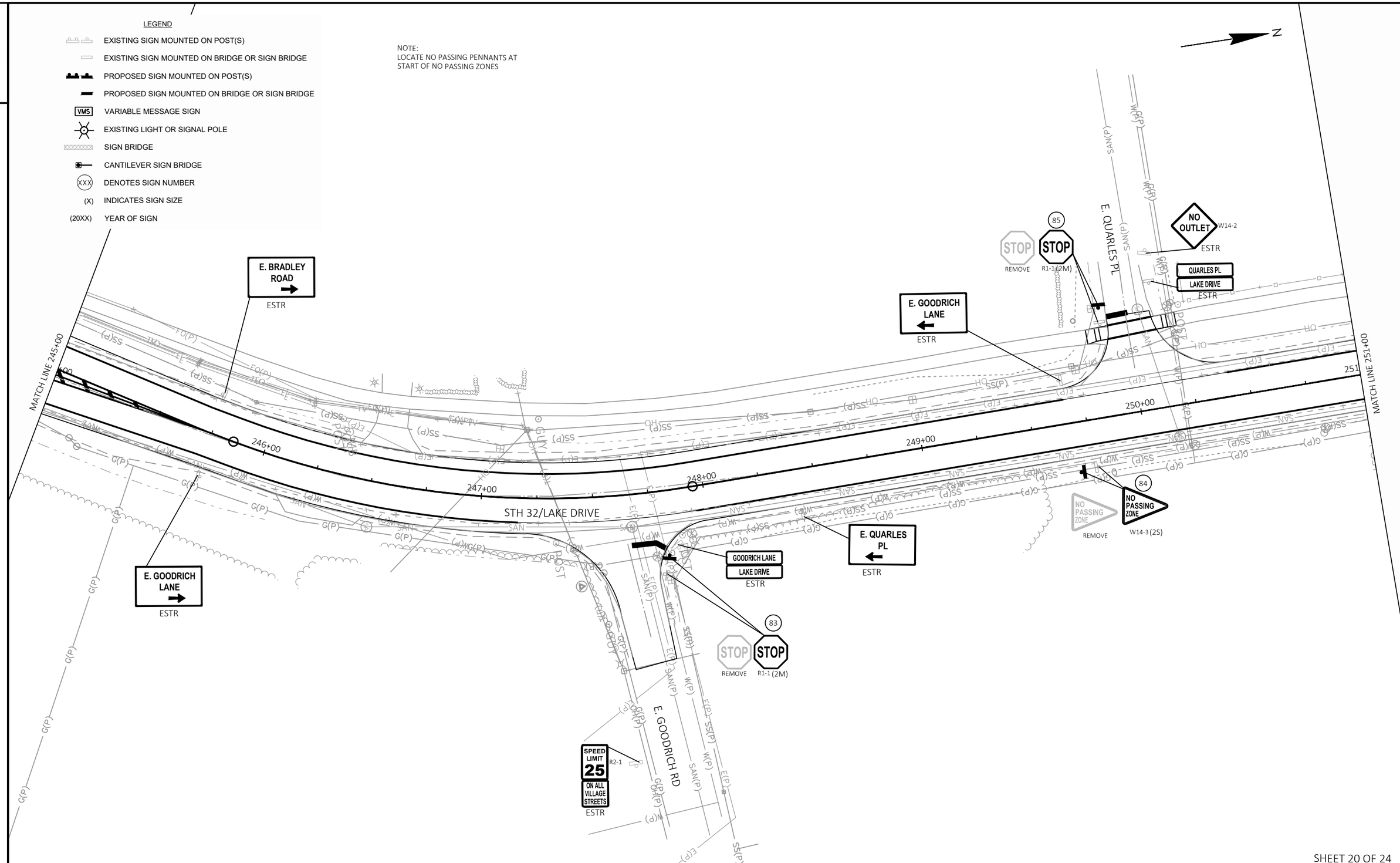
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

NOTE:
LOCATE NO PASSING PENNANTS AT
START OF NO PASSING ZONES



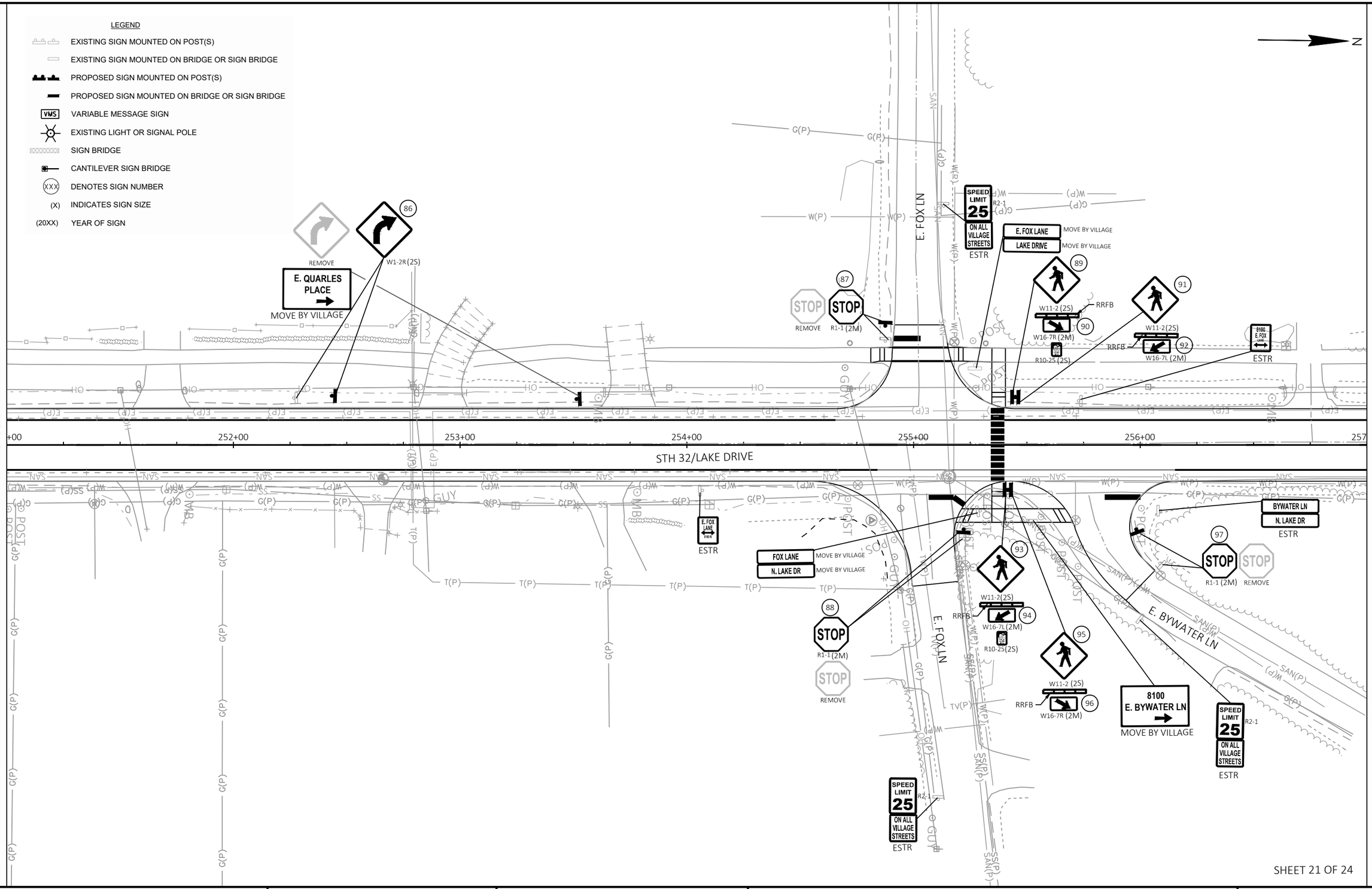
SHEET 20 OF 24

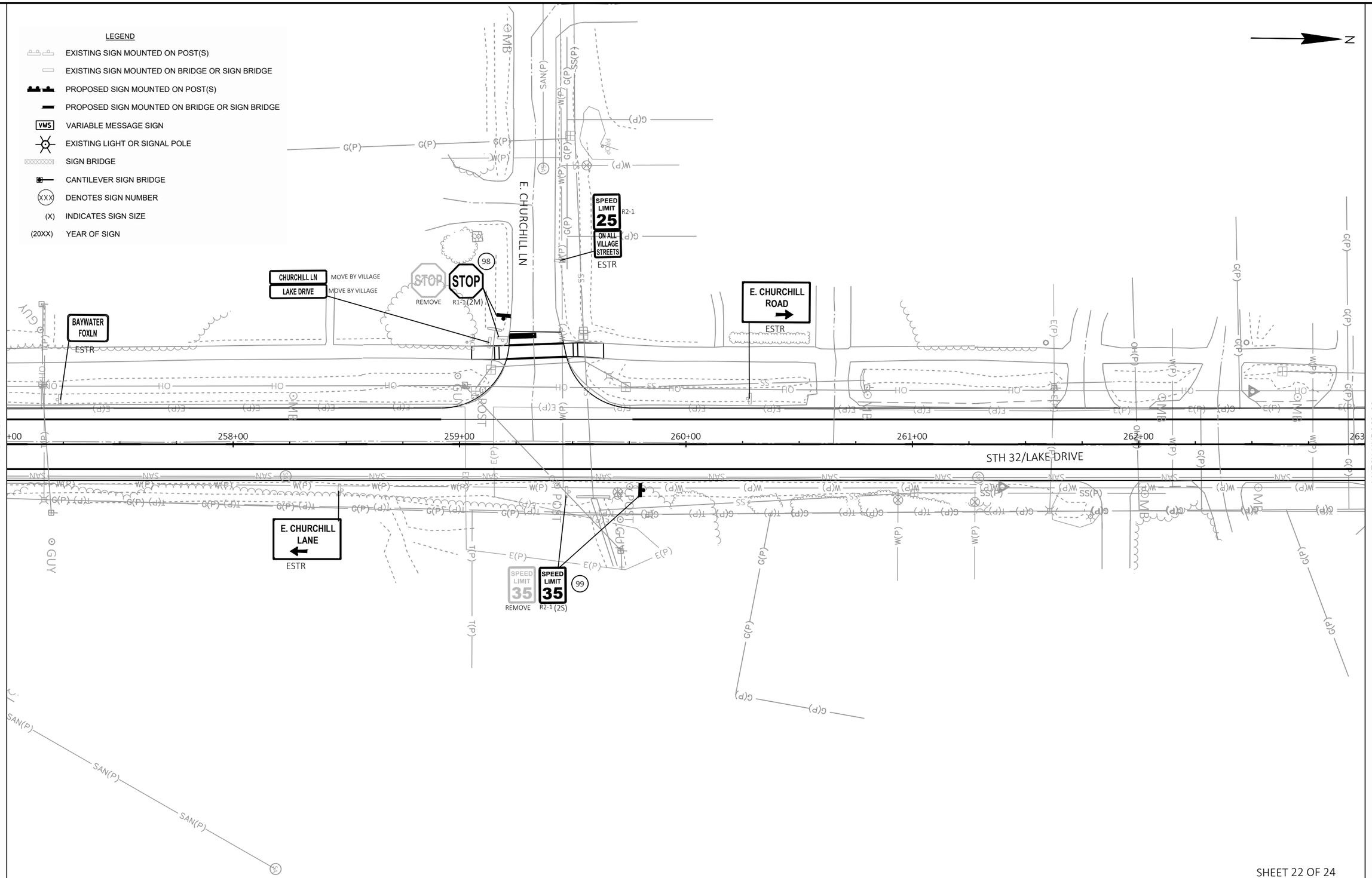
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 200	E

FILE NAME : X:\ML\2024\20240186\DESIGN\TRANSPORTATION\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023220-ps
PLOT DATE : 10/16/2024 1:57 PM PLOT BY : ROGAHN, DOUG PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- 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
- (X) INDICATES SIGN SIZE
- (20XX) YEAR OF SIGN





SHEET 22 OF 24

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 202	E

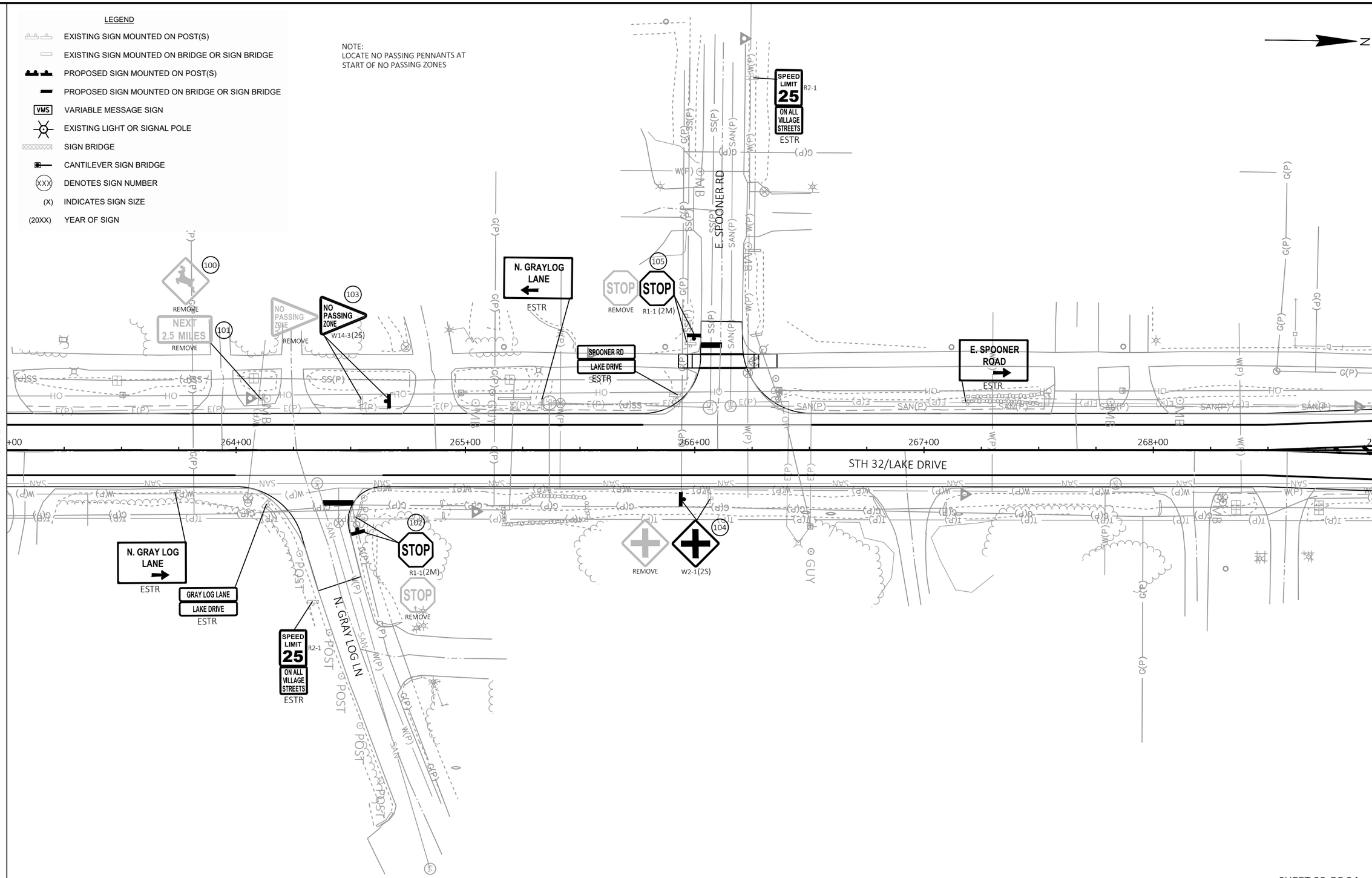
FILE NAME : X:\ML\2024\20240186\DESIGN\TRANSPORTATION\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023222-ps
PLOT DATE : 10/16/2024 1:57 PM
PLOT BY : ROGAHN, DOUG
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- 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
- (X) — INDICATES SIGN SIZE
- (20XX) — YEAR OF SIGN

NOTE:
LOCATE NO PASSING PENNANTS AT
START OF NO PASSING ZONES

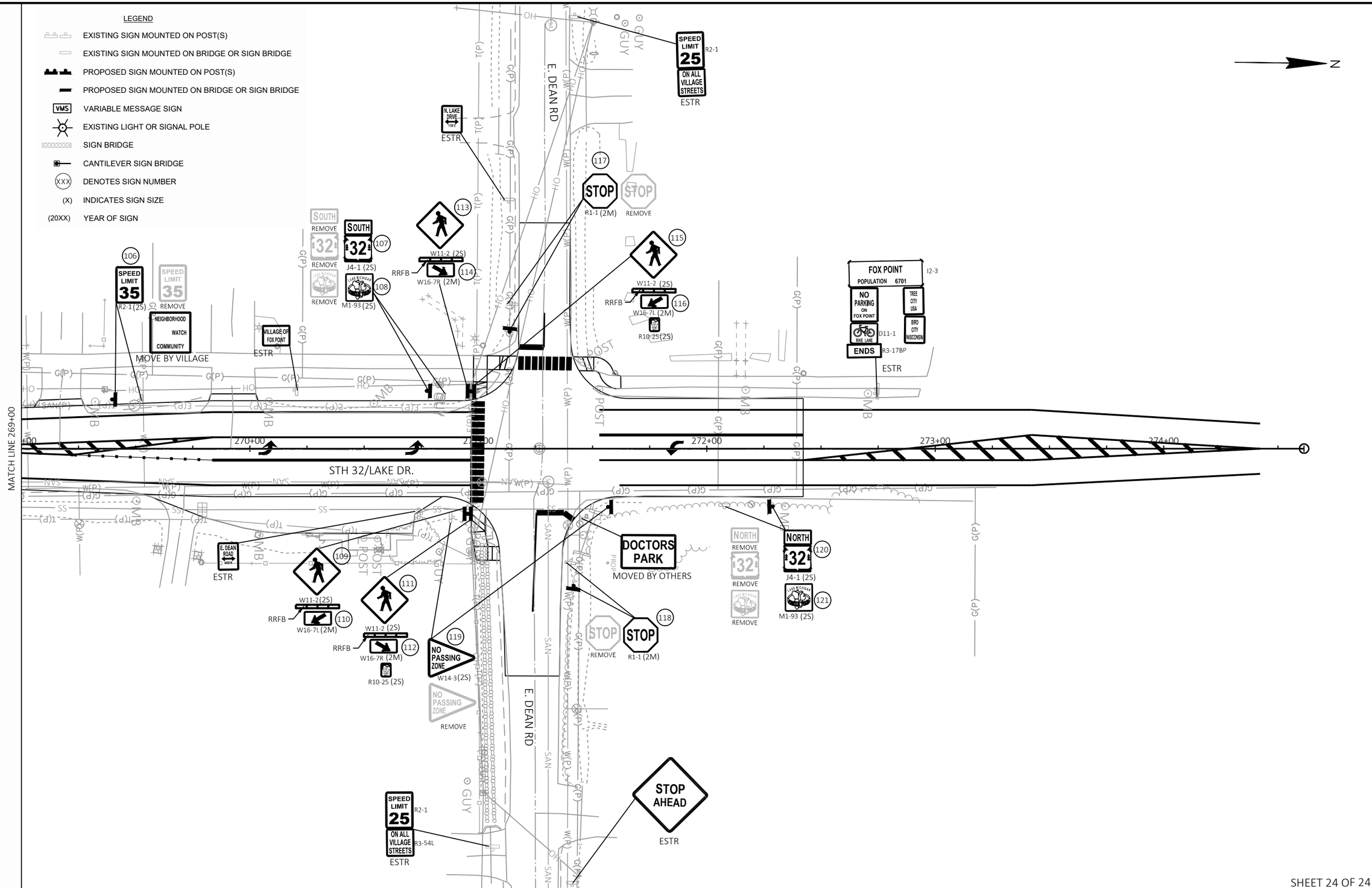


SHEET 23 OF 24

2

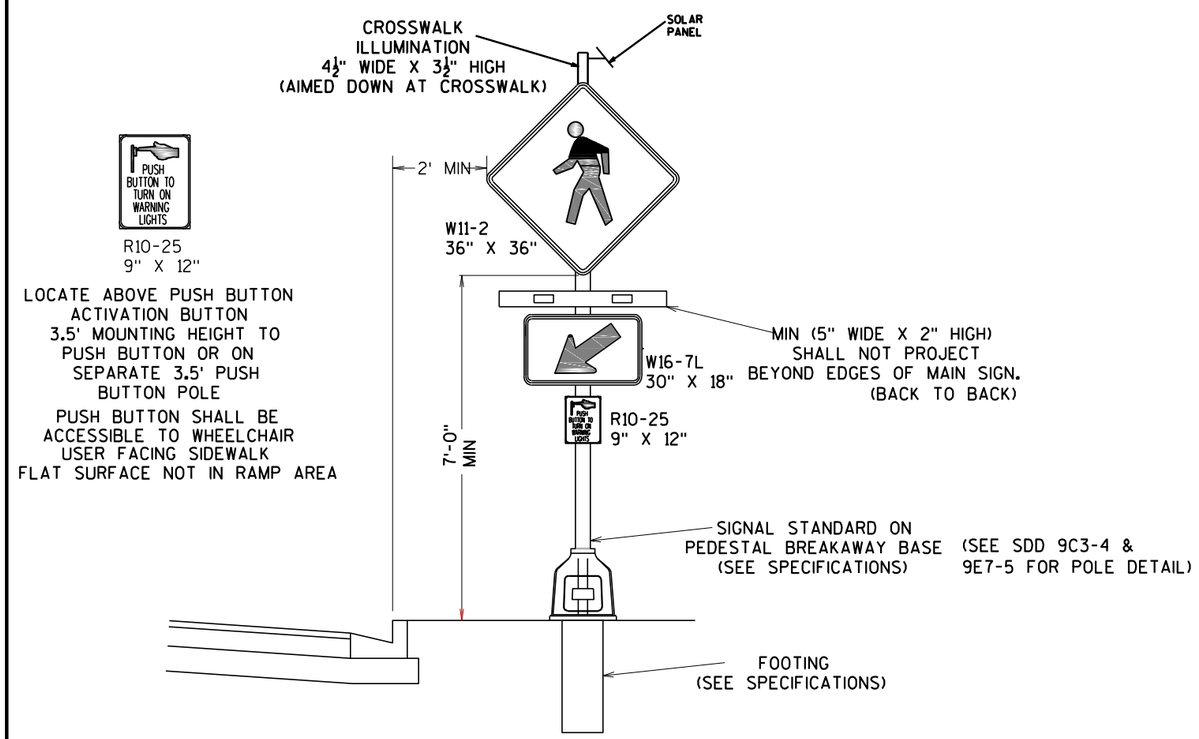
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 203	E

FILE NAME : X:\ML\2024\20240186\DESIGN\TRANSPORTATION\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023223-ps
PLOT DATE : 10/16/2024 2:04 PM
PLOT BY : ROGAHN, DOUG
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

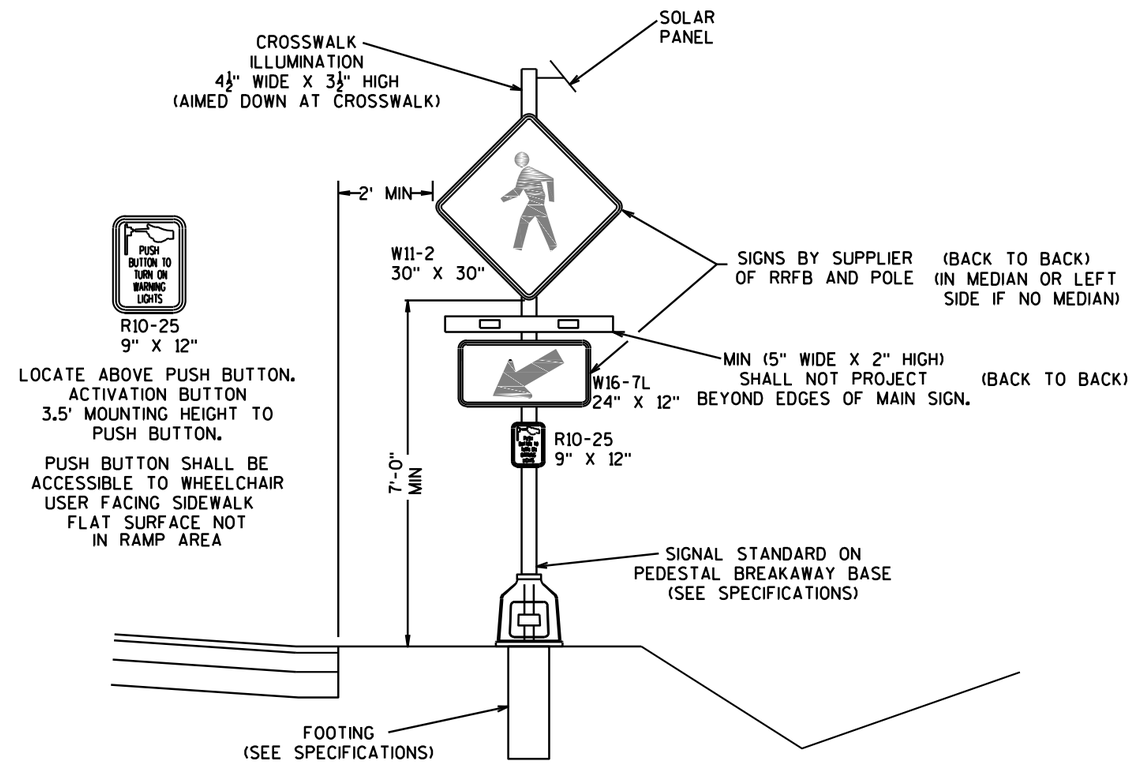


SHEET 24 OF 24

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 204	E



RAPID RECTANGULAR
FLASHING BEACON
URBAN LOCATION



RAPID RECTANGULAR
FLASHING BEACON

RECTANGULAR RAPID FLASHING BEACON DETAIL

SEE RECTANGULAR RAPID FLASHING BEACON PLANS FOR LOCATIONS
NTS

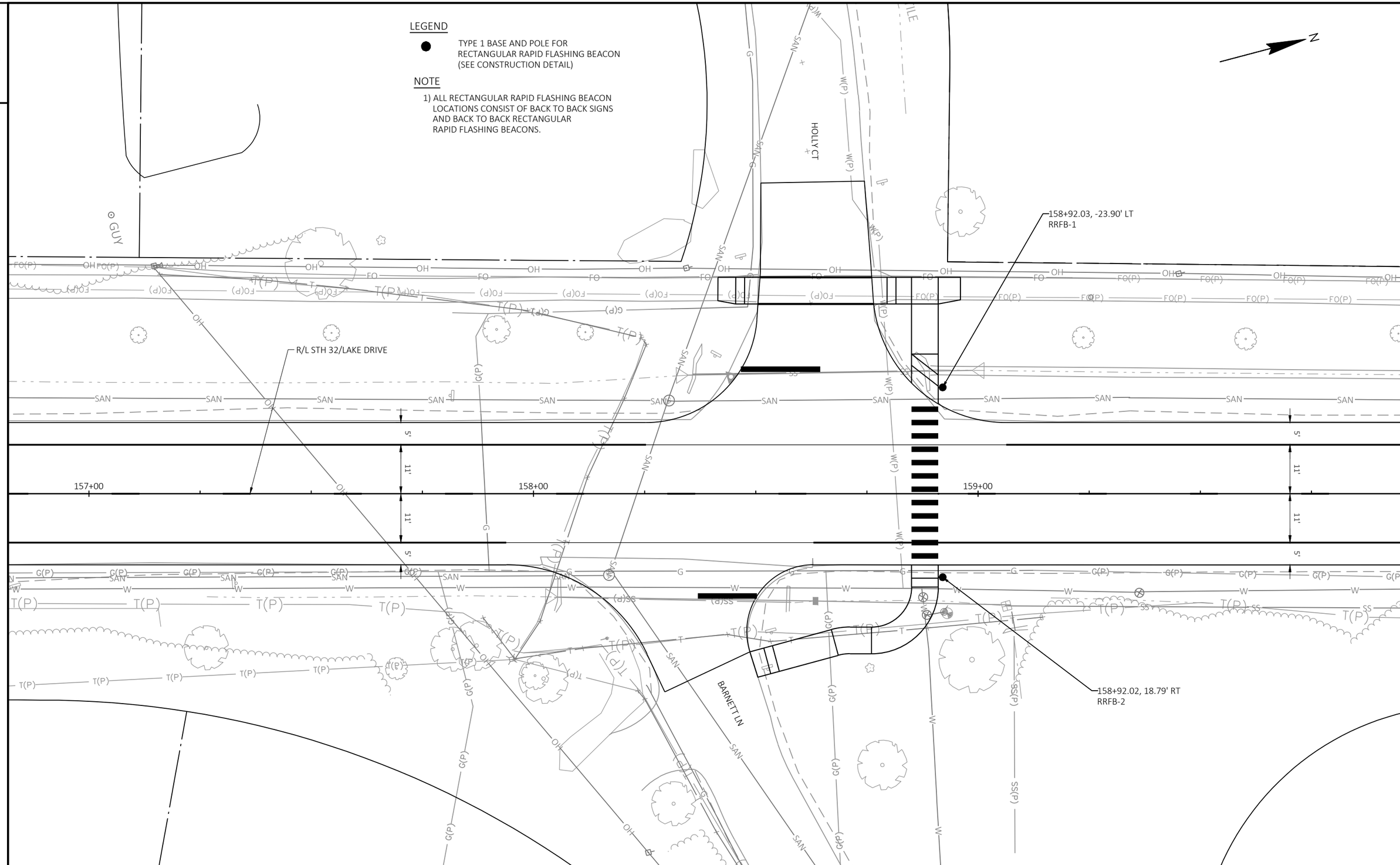
2

LEGEND

● TYPE 1 BASE AND POLE FOR RECTANGULAR RAPID FLASHING BEACON (SEE CONSTRUCTION DETAIL)

NOTE

1) ALL RECTANGULAR RAPID FLASHING BEACON LOCATIONS CONSIST OF BACK TO BACK SIGNS AND BACK TO BACK RECTANGULAR RAPID FLASHING BEACONS.



2

PROJECT NO: 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	RECTANGULAR RAPID FLASHING BEACONS	SHEET 206	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\023210-PS.DWG
LAYOUT NAME - RRFB-1
PLOT DATE : 10/14/2024 6:49 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:20 FT

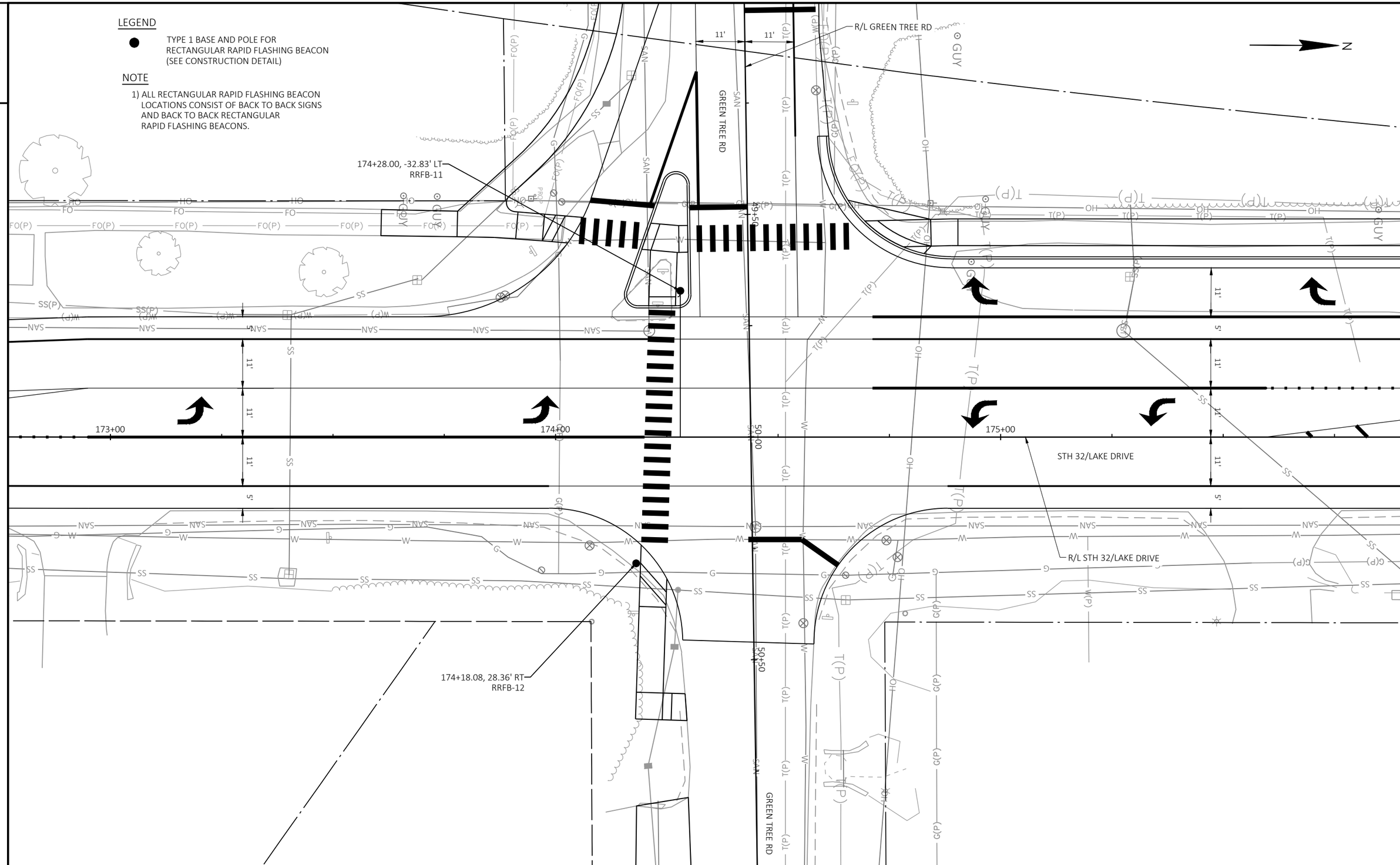
2

LEGEND

● TYPE 1 BASE AND POLE FOR RECTANGULAR RAPID FLASHING BEACON (SEE CONSTRUCTION DETAIL)

NOTE

1) ALL RECTANGULAR RAPID FLASHING BEACON LOCATIONS CONSIST OF BACK TO BACK SIGNS AND BACK TO BACK RECTANGULAR RAPID FLASHING BEACONS.



2

PROJECT NO: 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	RECTANGULAR RAPID FLASHING BEACONS	SHEET 207	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\023210-PS.DWG
LAYOUT NAME - RRFB-2
PLOT DATE : 10/14/2024 6:49 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:20 FT

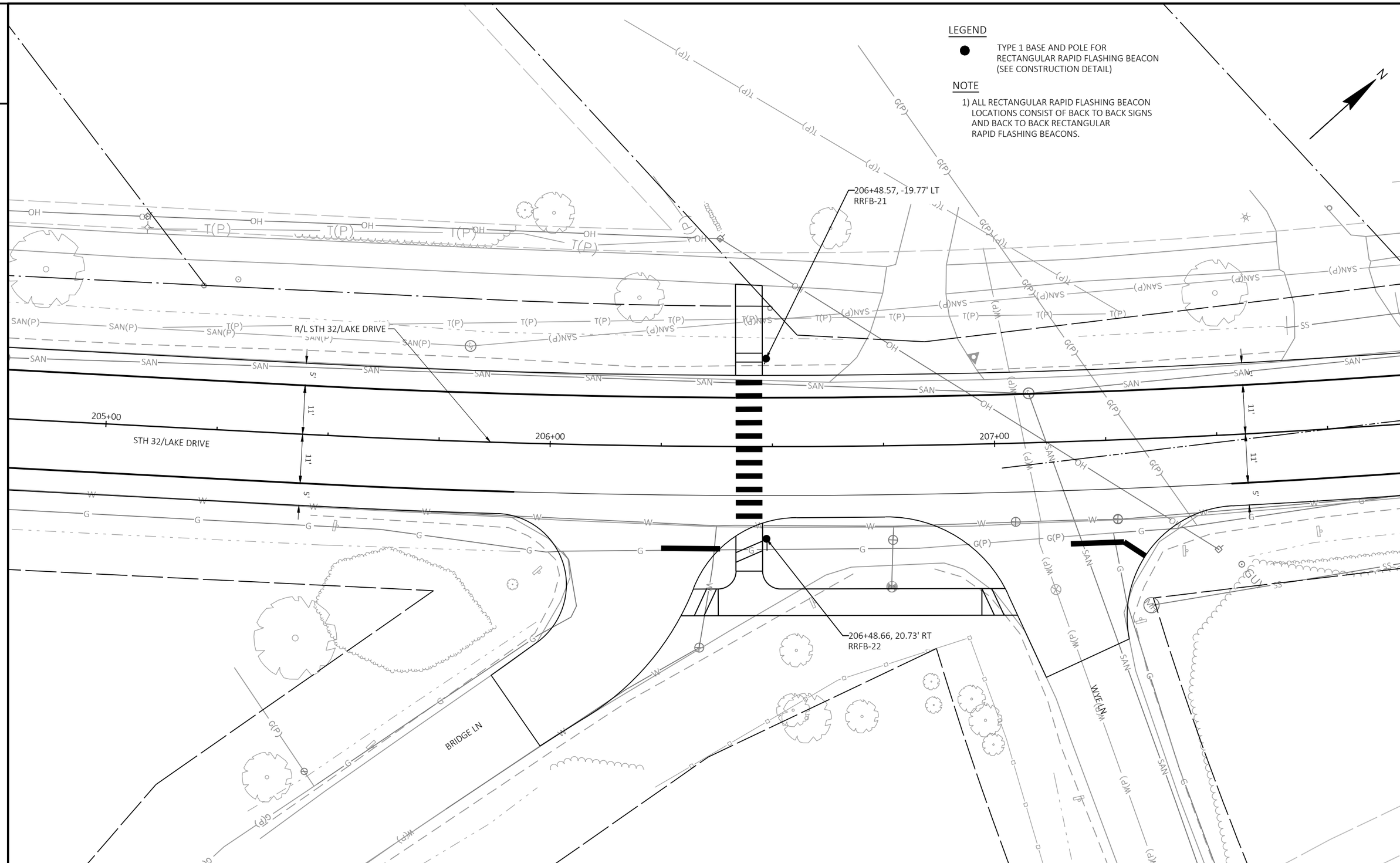
2

LEGEND

● TYPE 1 BASE AND POLE FOR RECTANGULAR RAPID FLASHING BEACON (SEE CONSTRUCTION DETAIL)

NOTE

1) ALL RECTANGULAR RAPID FLASHING BEACON LOCATIONS CONSIST OF BACK TO BACK SIGNS AND BACK TO BACK RECTANGULAR RAPID FLASHING BEACONS.



2

PROJECT NO: 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	RECTANGULAR RAPID FLASHING BEACONS	SHEET 208	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\023210-PS.DWG
LAYOUT NAME - RRFB-3
PLOT DATE : 10/14/2024 6:49 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

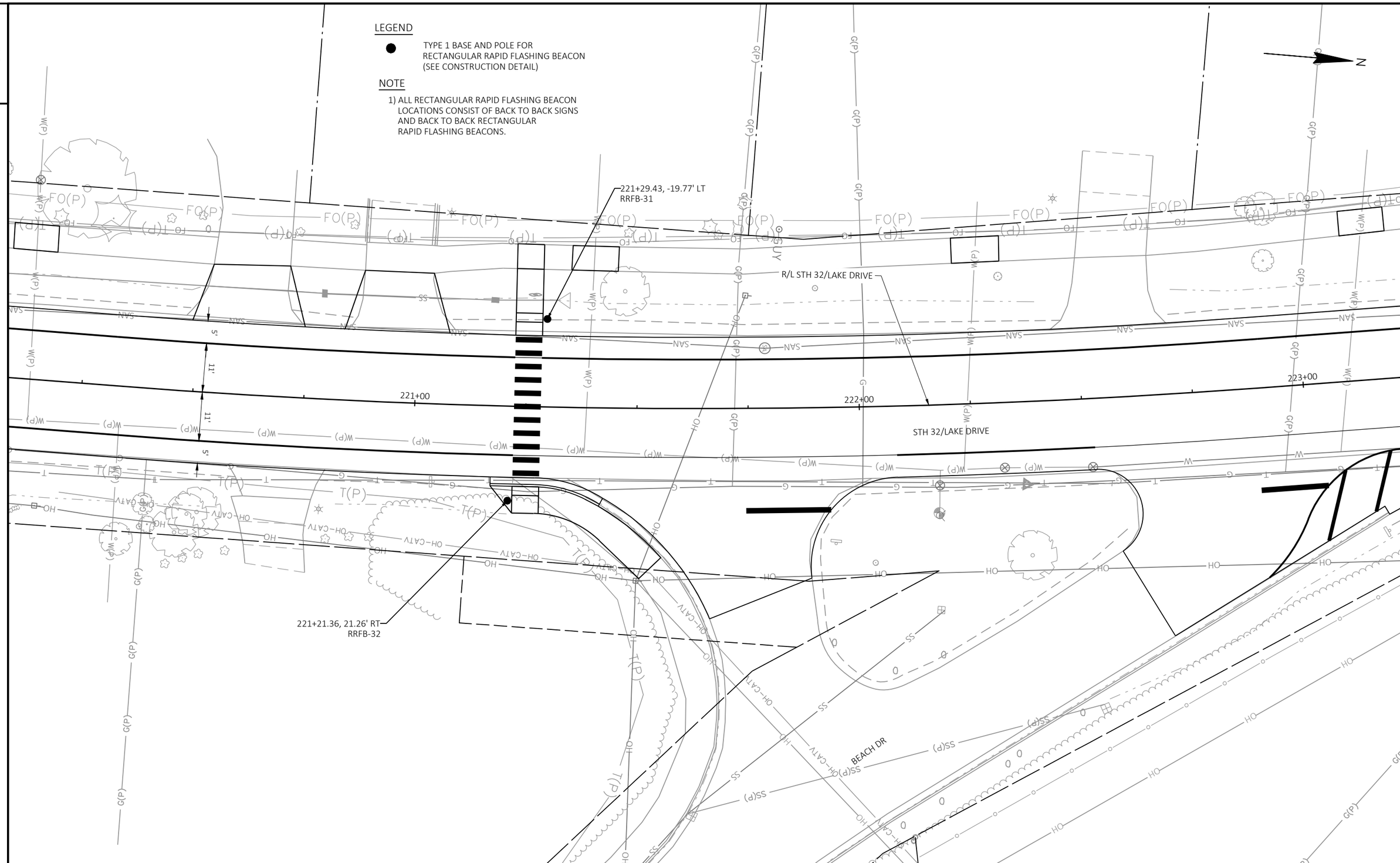
2

LEGEND

● TYPE 1 BASE AND POLE FOR RECTANGULAR RAPID FLASHING BEACON (SEE CONSTRUCTION DETAIL)

NOTE

1) ALL RECTANGULAR RAPID FLASHING BEACON LOCATIONS CONSIST OF BACK TO BACK SIGNS AND BACK TO BACK RECTANGULAR RAPID FLASHING BEACONS.



2

PROJECT NO: 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	RECTANGULAR RAPID FLASHING BEACONS	SHEET 209	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\023210-PS.DWG
LAYOUT NAME - RRFB-4
PLOT DATE : 10/14/2024 6:49 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:20 FT

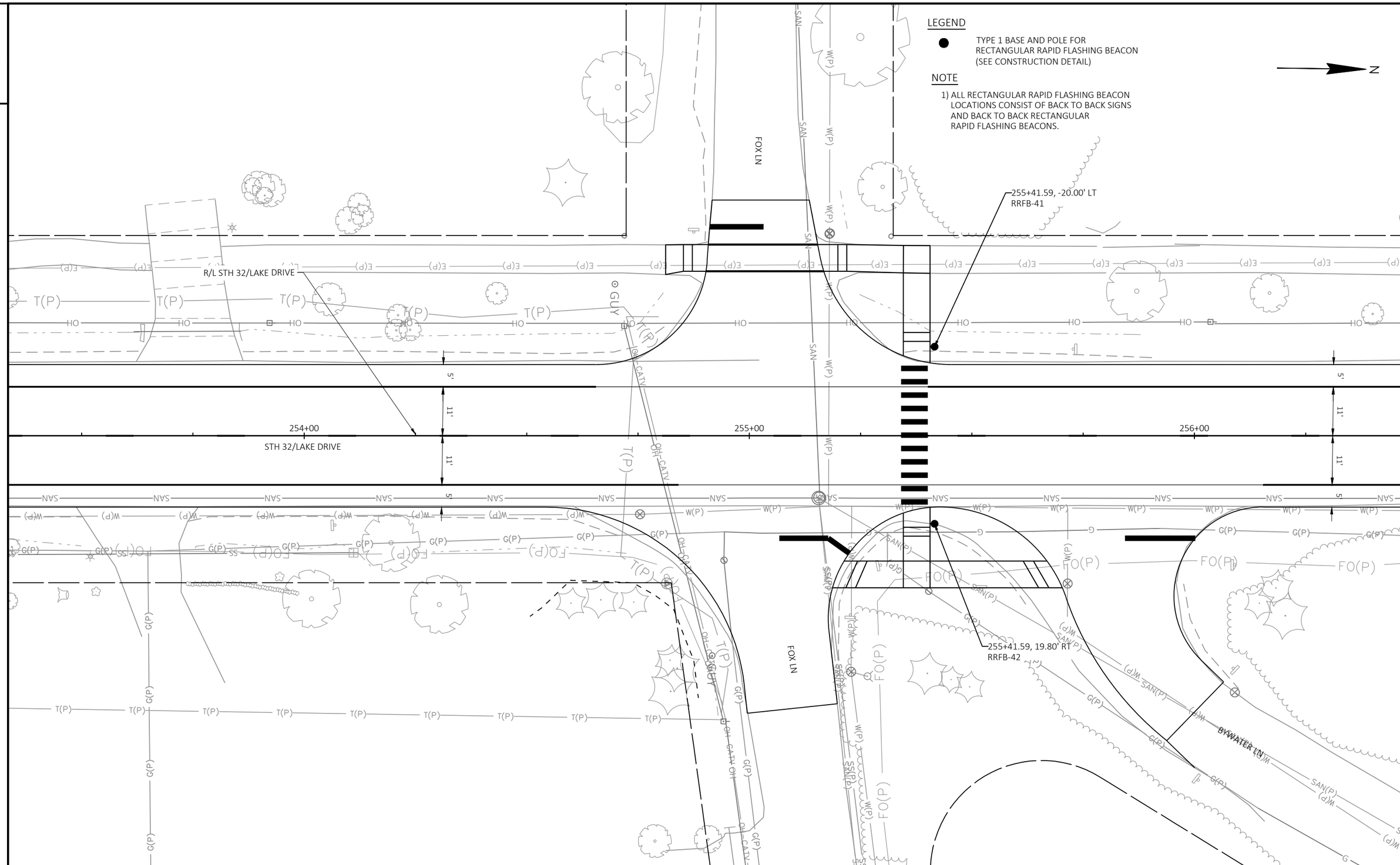
LEGEND

● TYPE 1 BASE AND POLE FOR RECTANGULAR RAPID FLASHING BEACON (SEE CONSTRUCTION DETAIL)

NOTE

1) ALL RECTANGULAR RAPID FLASHING BEACON LOCATIONS CONSIST OF BACK TO BACK SIGNS AND BACK TO BACK RECTANGULAR RAPID FLASHING BEACONS.

N

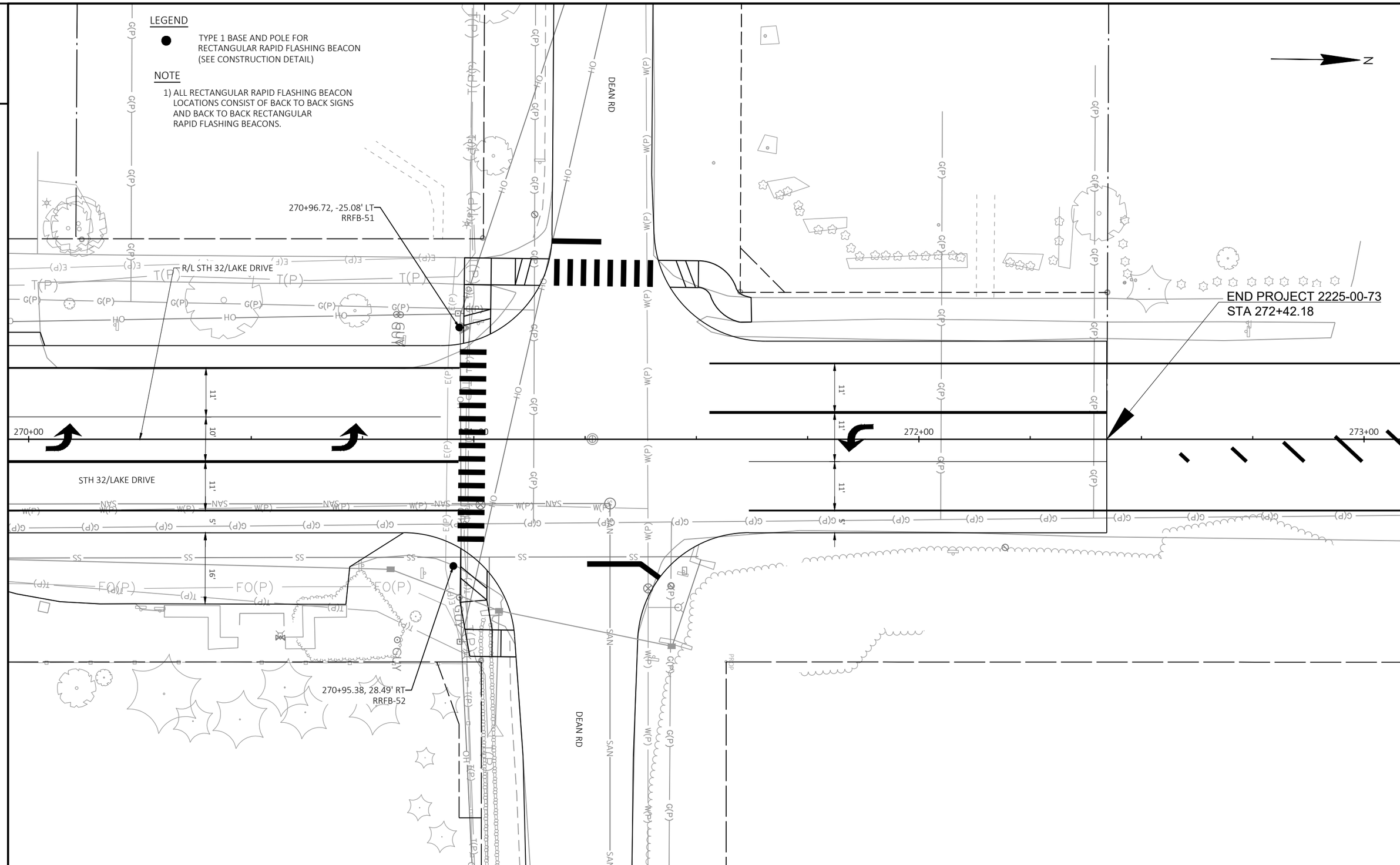


LEGEND

● TYPE 1 BASE AND POLE FOR RECTANGULAR RAPID FLASHING BEACON (SEE CONSTRUCTION DETAIL)

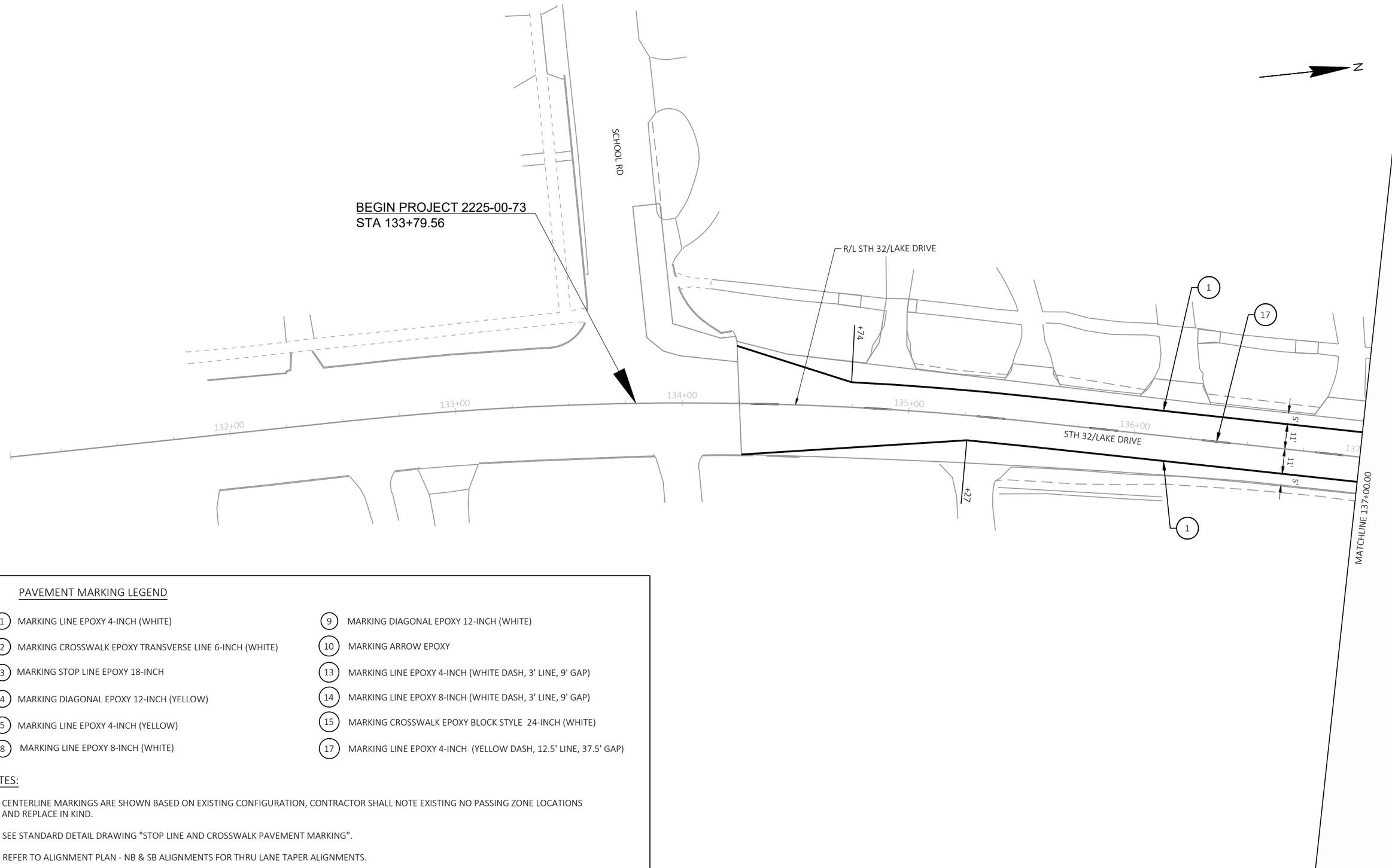
NOTE

1) ALL RECTANGULAR RAPID FLASHING BEACON LOCATIONS CONSIST OF BACK TO BACK SIGNS AND BACK TO BACK RECTANGULAR RAPID FLASHING BEACONS.



PROJECT NO: 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	RECTANGULAR RAPID FLASHING BEACONS	SHEET 211	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\023210-PS.DWG
LAYOUT NAME - RRFB-6
PLOT DATE : 10/14/2024 6:49 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:20 FT

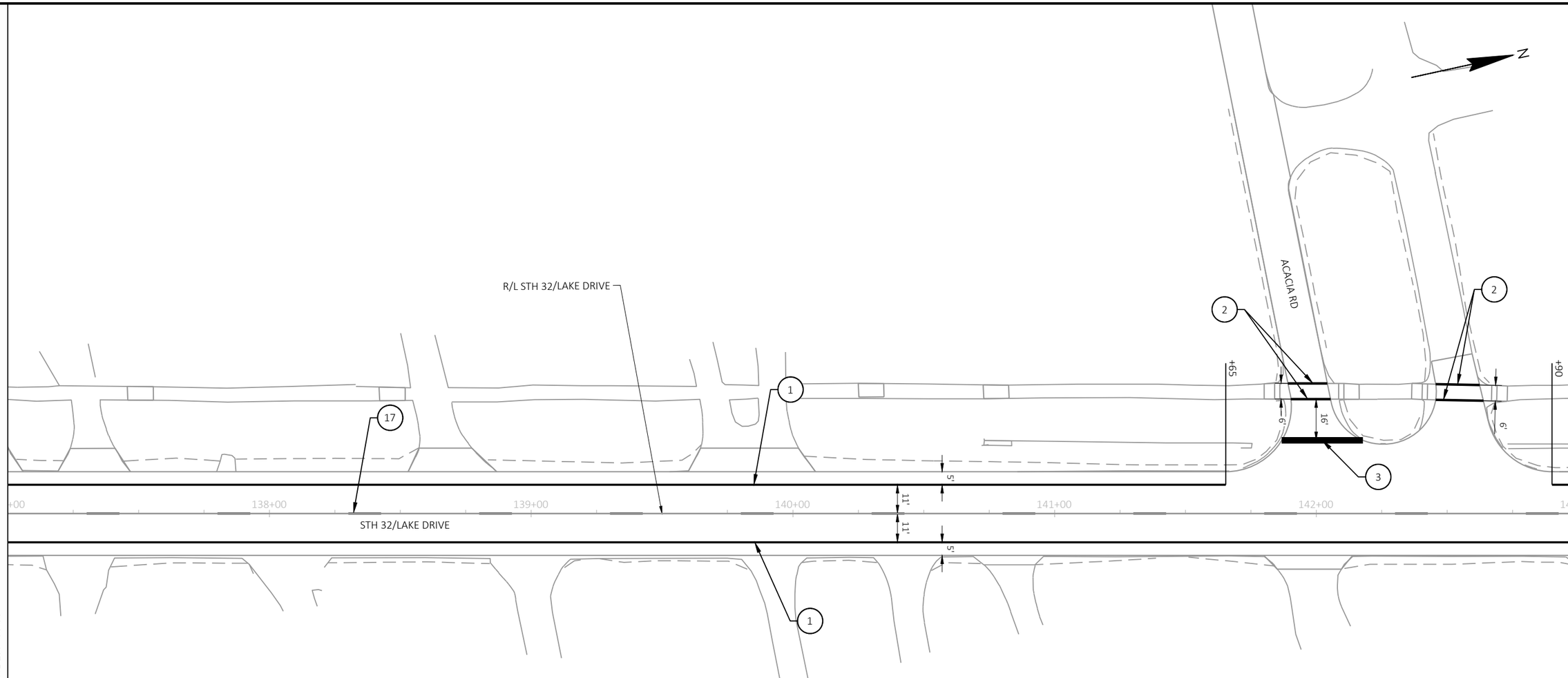


PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
14. MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
15. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.
2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".
3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.



PAVEMENT MARKING LEGEND

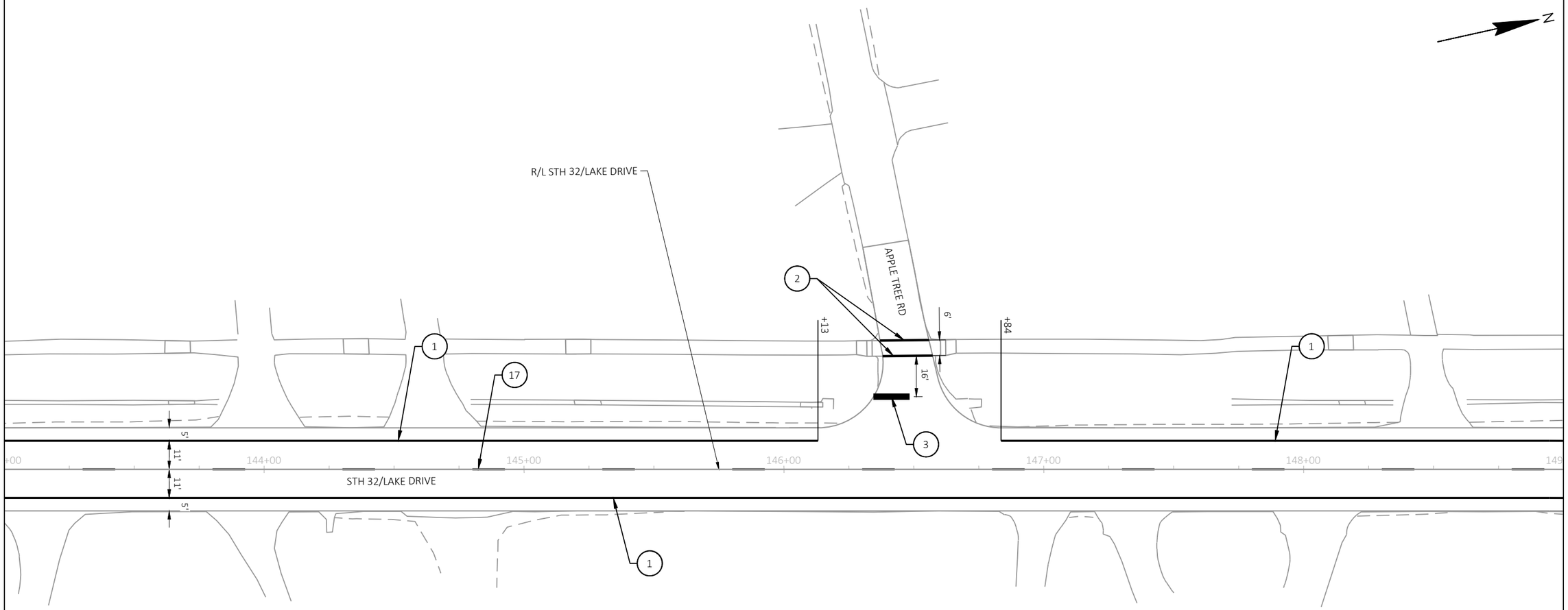
1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
14. MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
15. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.

2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".

3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.



MATCHLINE 143+00.00

PAVEMENT MARKING LEGEND

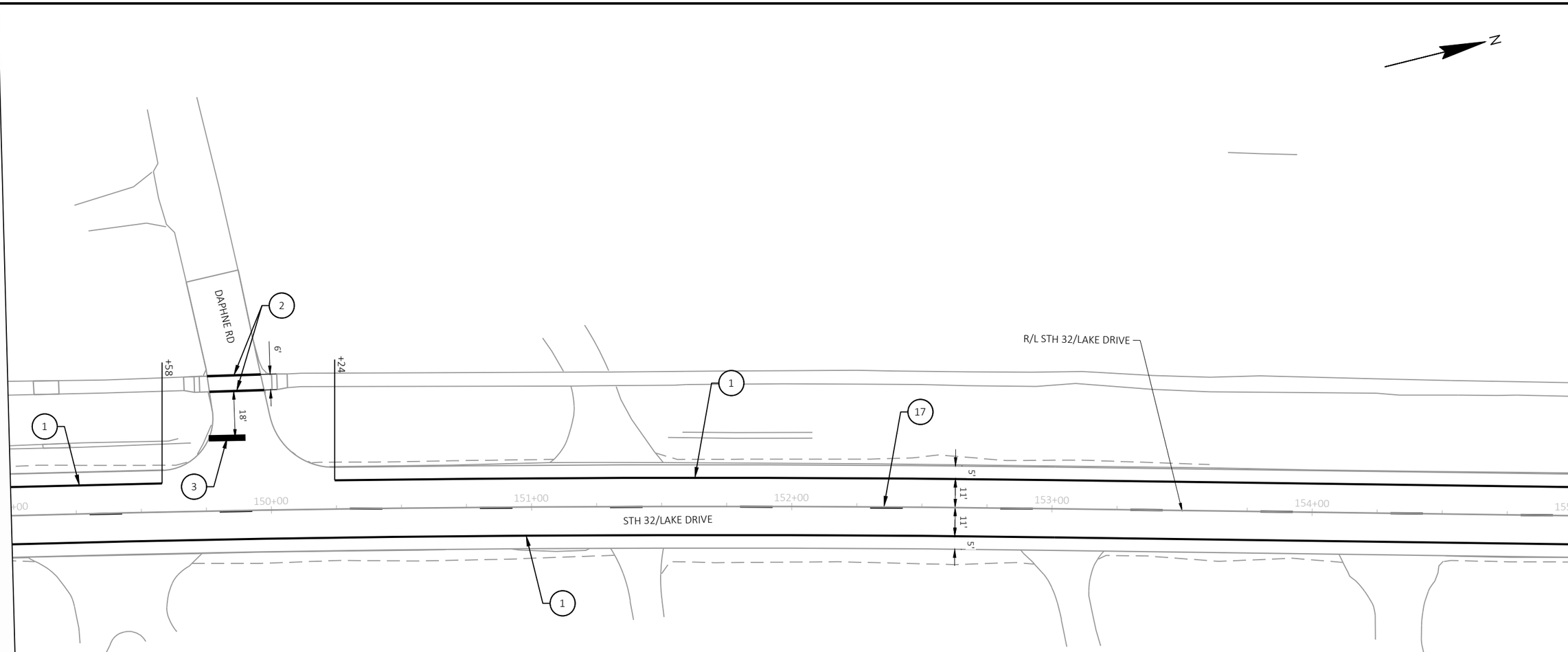
1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
14. MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
15. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.

2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".

3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.



MATCHLINE 149+00.00

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
14. MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
15. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.

2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".

3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.

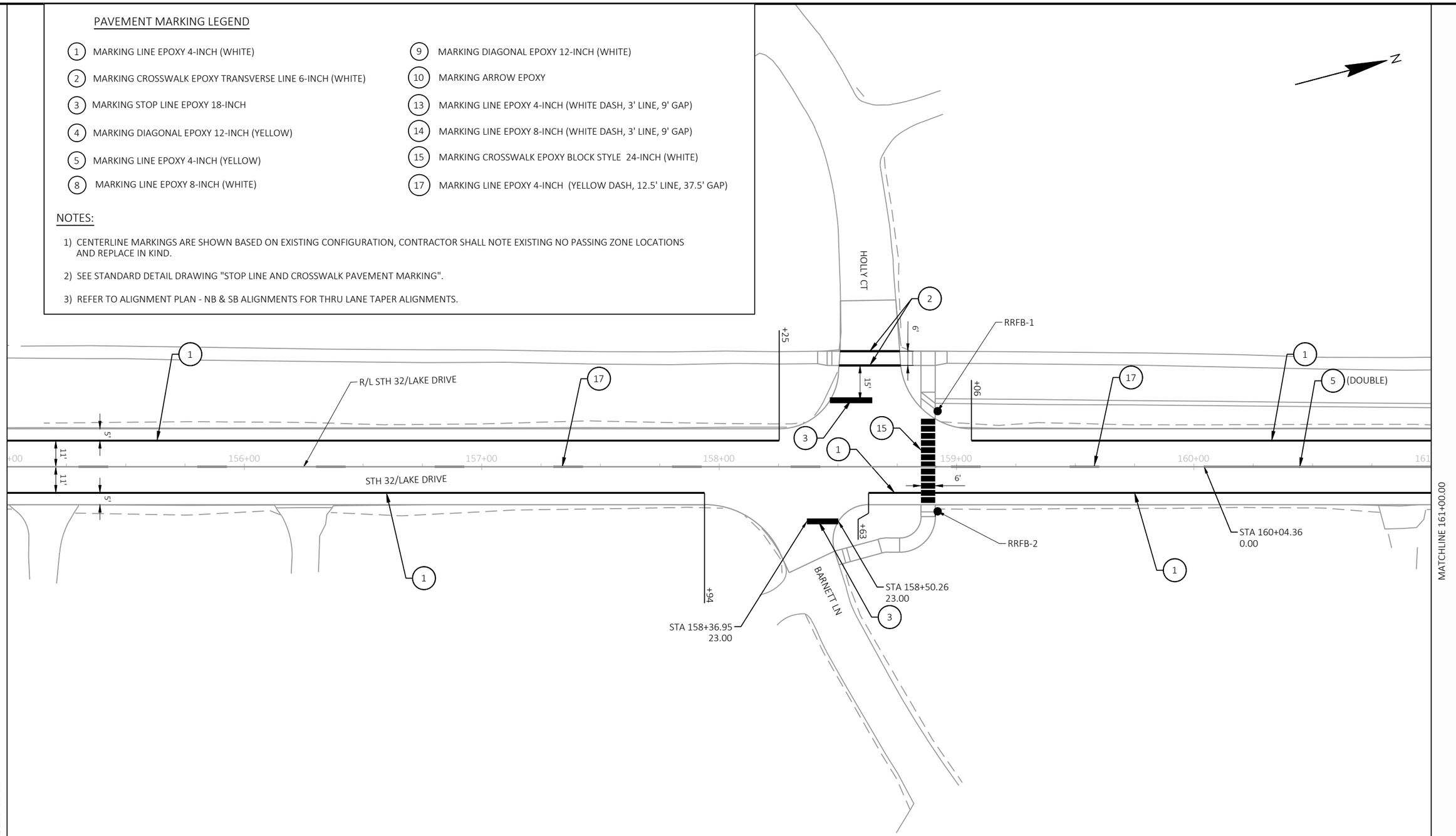
2

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
14. MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
15. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

NOTES:

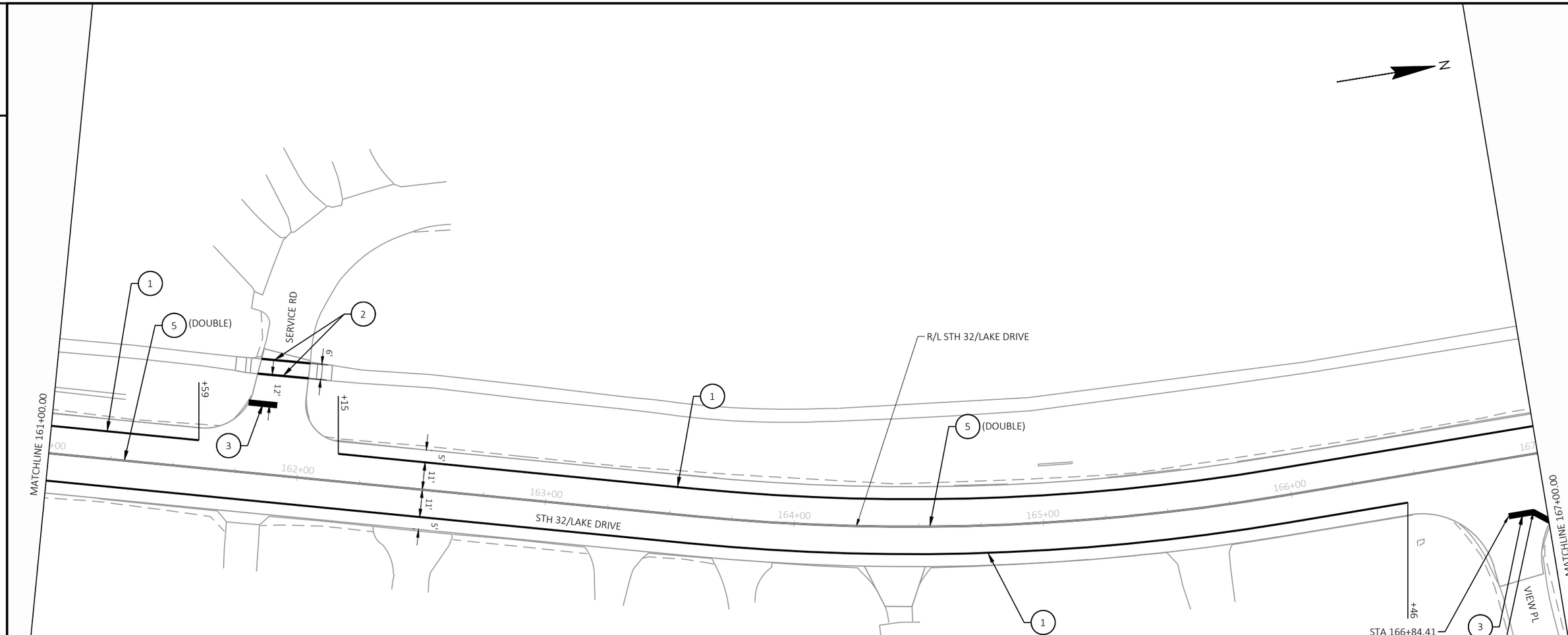
1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.
2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".
3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.



2

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 216	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - (5)
PLOT DATE : 10/14/2024 6:50 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



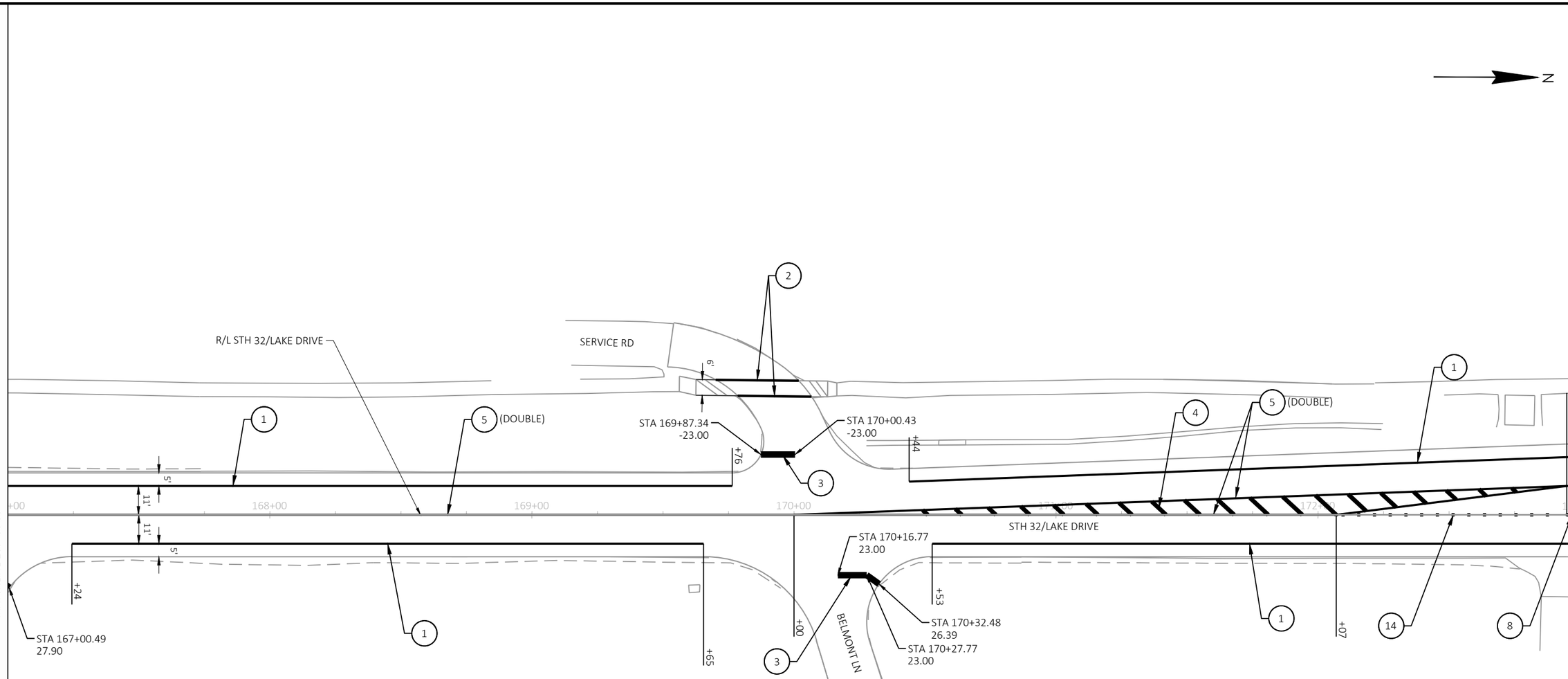
PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
14. MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
15. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.
2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".
3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 217	E



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
14. MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
15. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

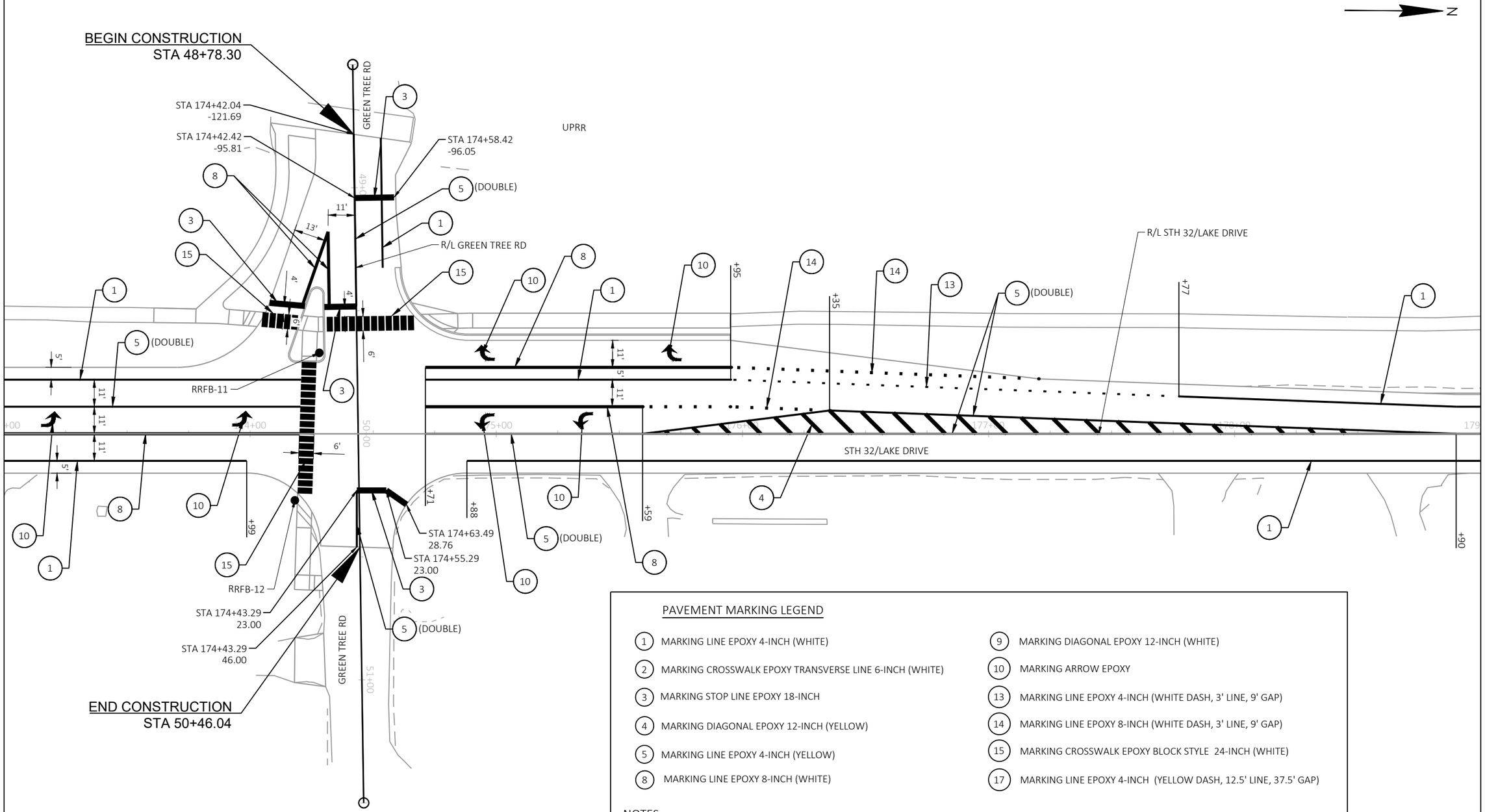
NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.

2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".

3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 218	E



PAVEMENT MARKING LEGEND

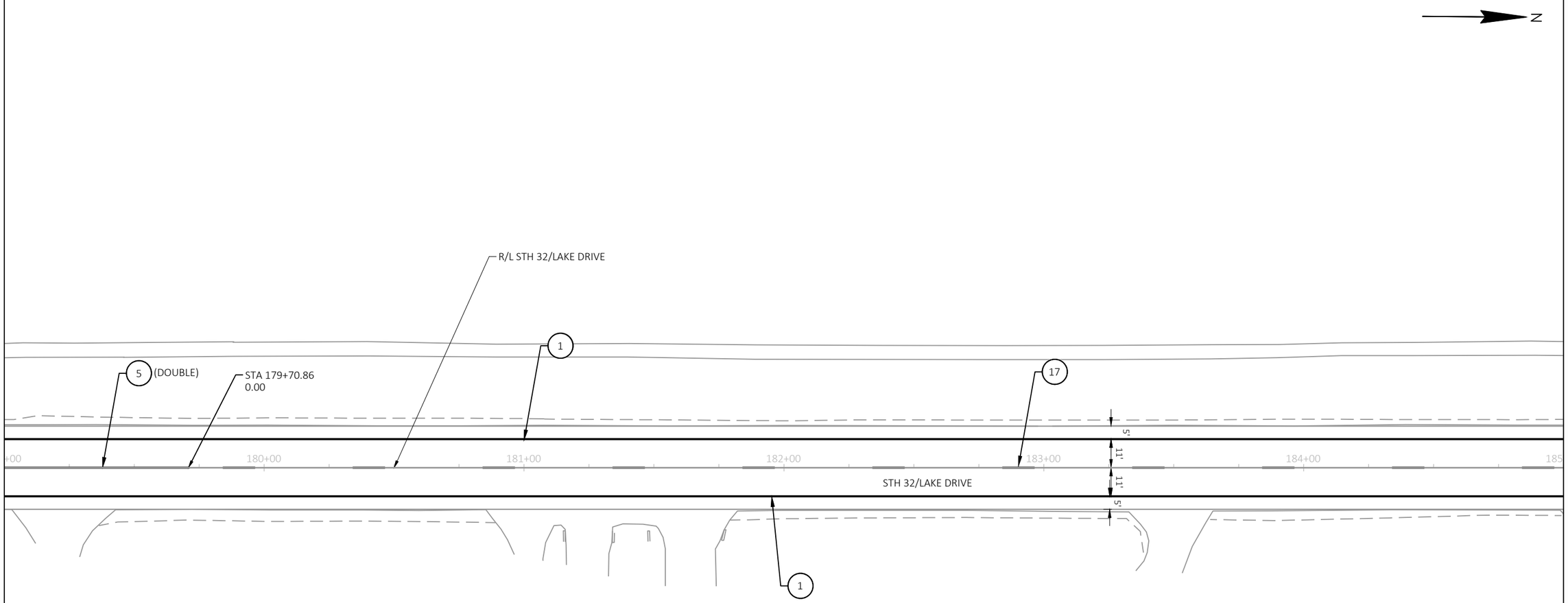
1 MARKING LINE EPOXY 4-INCH (WHITE)	9 MARKING DIAGONAL EPOXY 12-INCH (WHITE)
2 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)	10 MARKING ARROW EPOXY
3 MARKING STOP LINE EPOXY 18-INCH	13 MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
4 MARKING DIAGONAL EPOXY 12-INCH (YELLOW)	14 MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
5 MARKING LINE EPOXY 4-INCH (YELLOW)	15 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
8 MARKING LINE EPOXY 8-INCH (WHITE)	17 MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.

2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".

3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.



MATCHLINE 179+00.00

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
14. MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
15. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.

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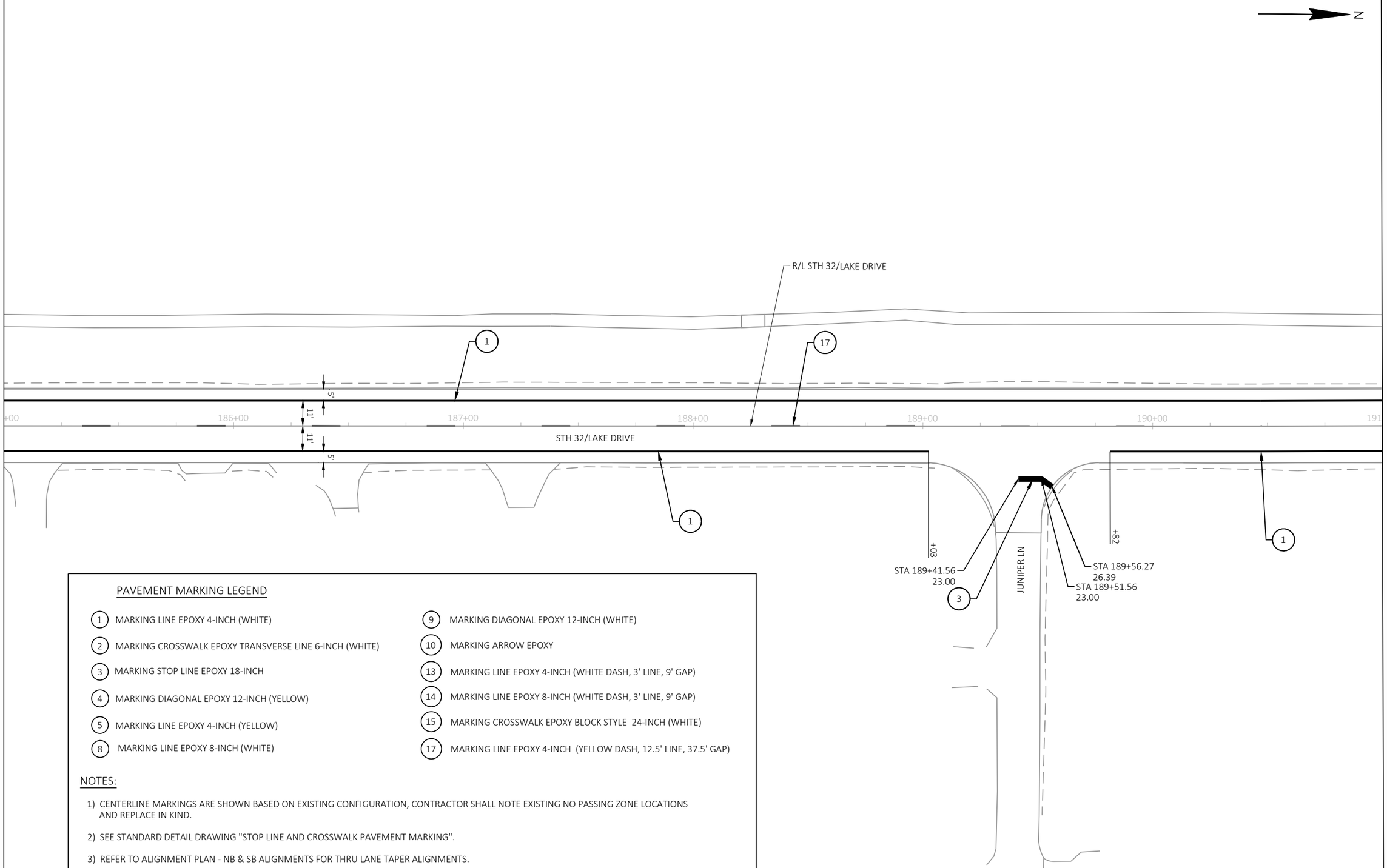
3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
14. MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
15. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

NOTES:

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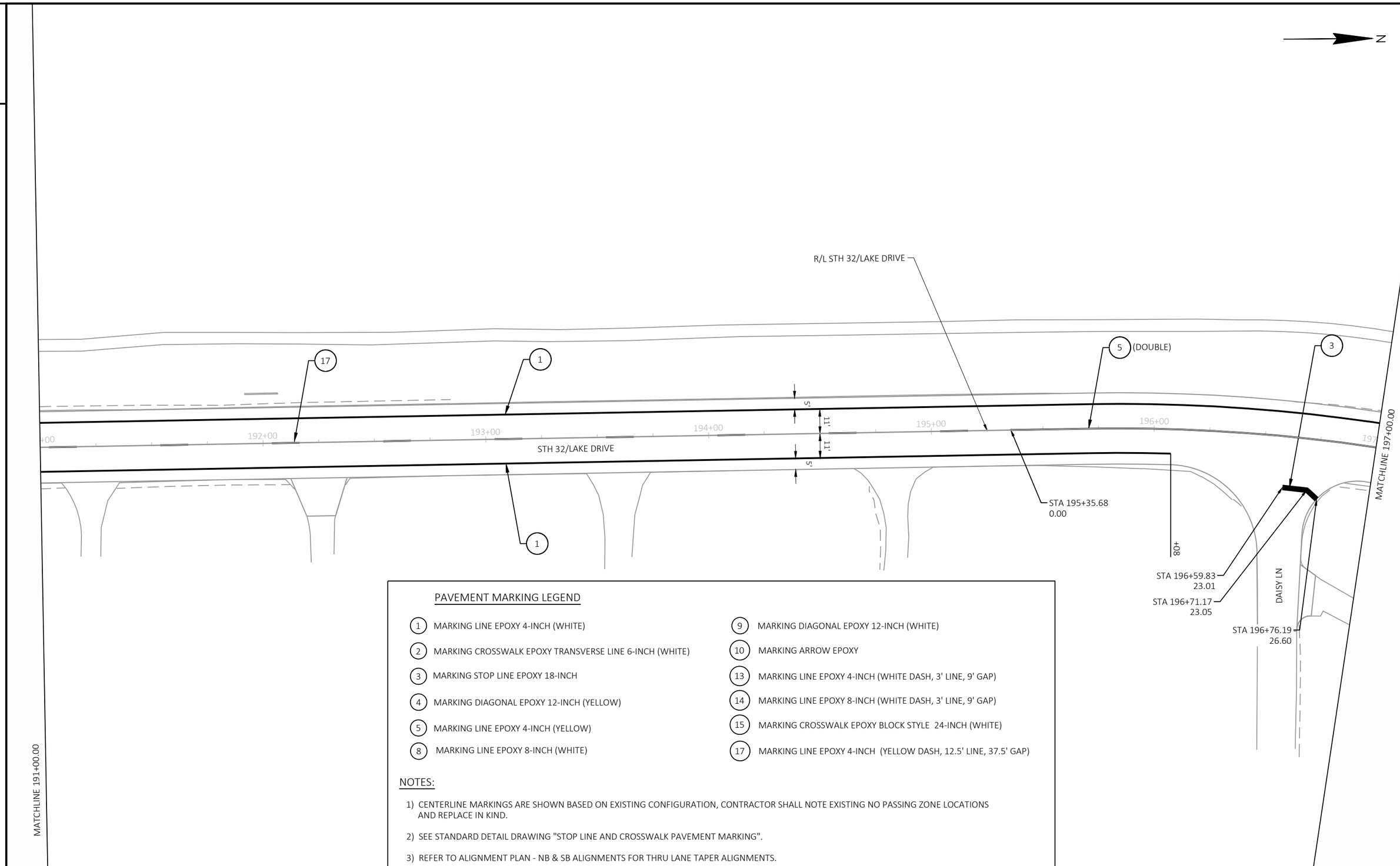
2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".
3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 221	E



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
14. MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
15. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.
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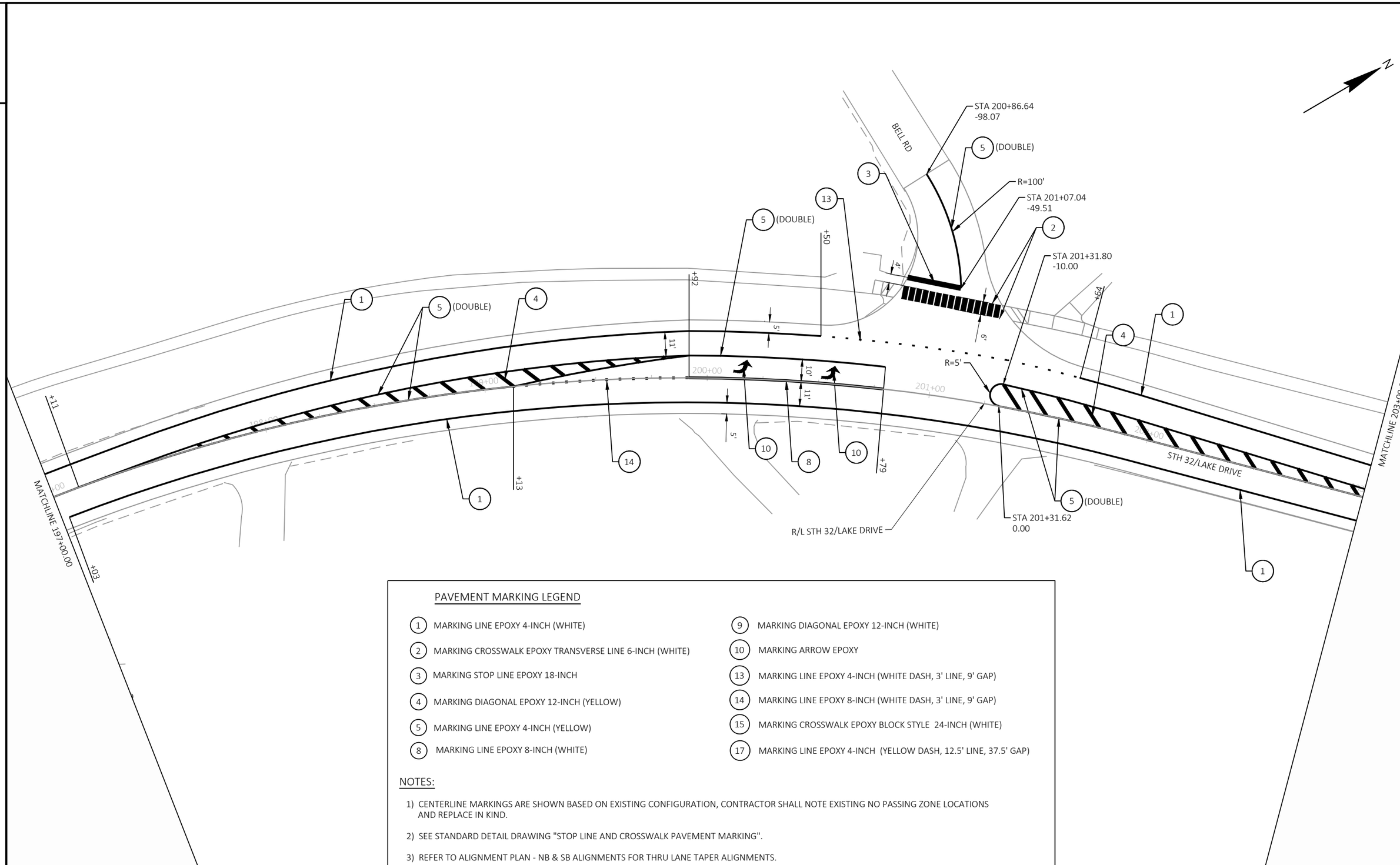
3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 222	E



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
14. MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
15. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.
2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".
3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 223	E

PAVEMENT MARKING LEGEND

- (1) MARKING LINE EPOXY 4-INCH (WHITE)
- (2) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (3) MARKING STOP LINE EPOXY 18-INCH
- (4) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (5) MARKING LINE EPOXY 4-INCH (YELLOW)
- (8) MARKING LINE EPOXY 8-INCH (WHITE)
- (9) MARKING DIAGONAL EPOXY 12-INCH (WHITE)
- (10) MARKING ARROW EPOXY
- (13) MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
- (14) MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
- (15) MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
- (17) MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.
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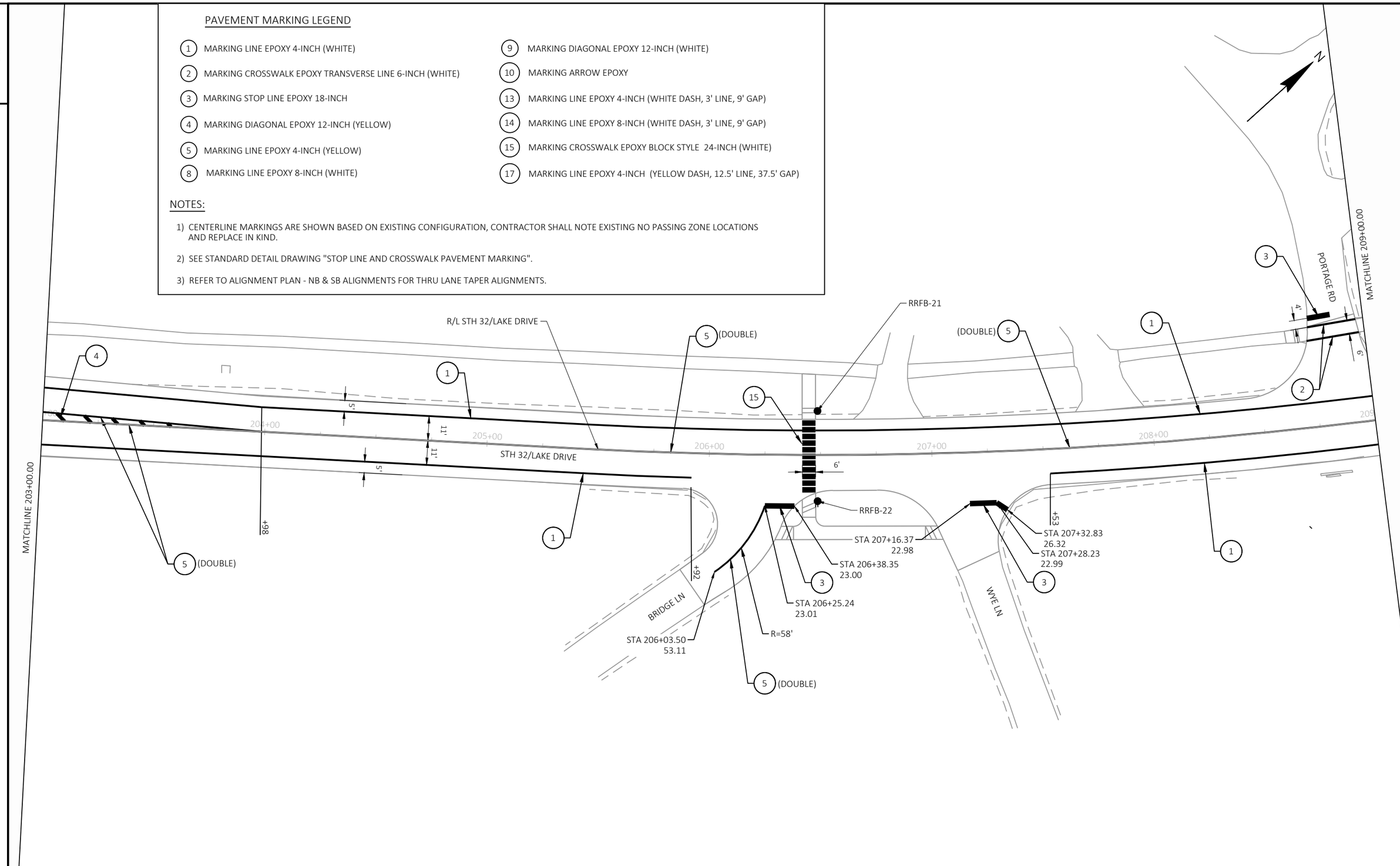
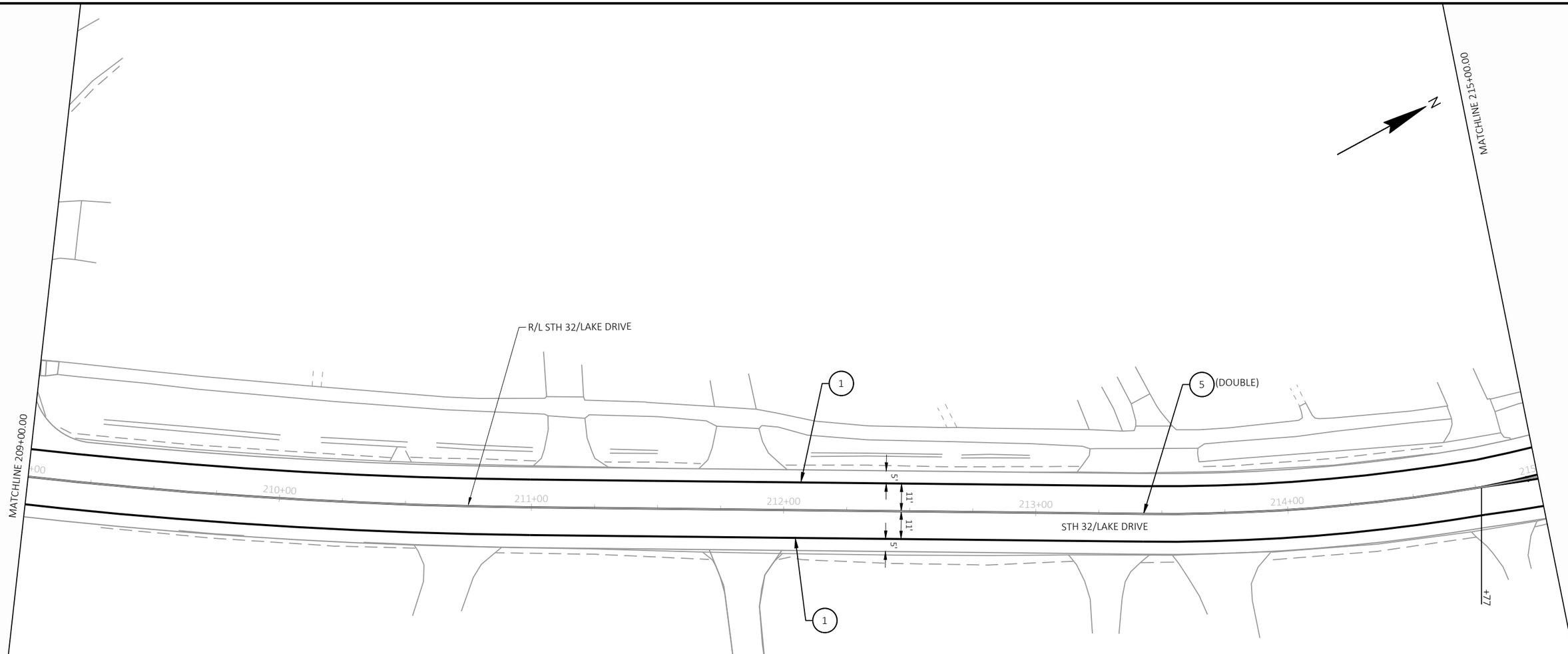
3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.





PAVEMENT MARKING LEGEND

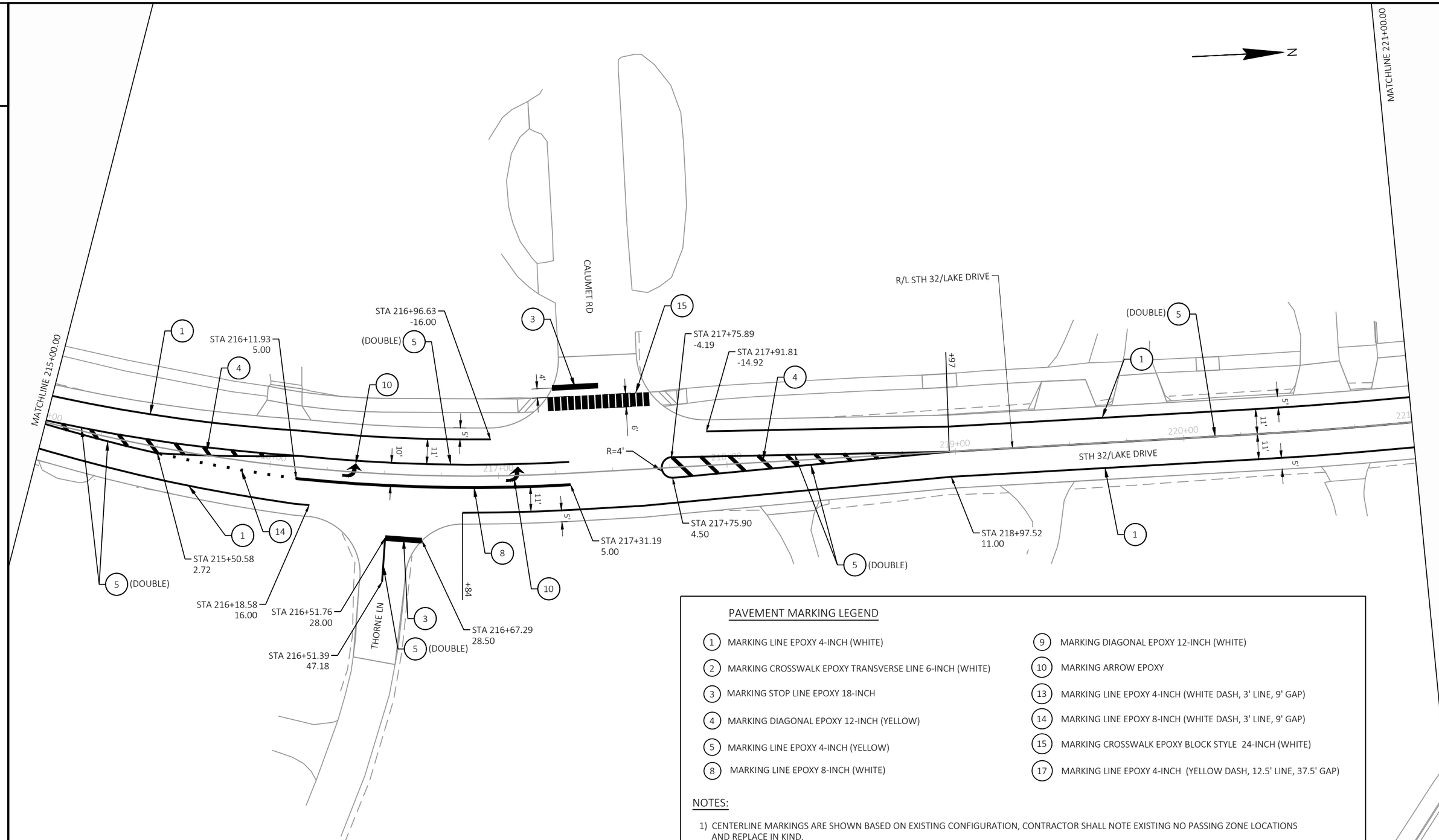
1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
14. MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
15. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.

2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".

3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.



PAVEMENT MARKING LEGEND

1 MARKING LINE EPOXY 4-INCH (WHITE)	9 MARKING DIAGONAL EPOXY 12-INCH (WHITE)
2 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)	10 MARKING ARROW EPOXY
3 MARKING STOP LINE EPOXY 18-INCH	13 MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
4 MARKING DIAGONAL EPOXY 12-INCH (YELLOW)	14 MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
5 MARKING LINE EPOXY 4-INCH (YELLOW)	15 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
8 MARKING LINE EPOXY 8-INCH (WHITE)	17 MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

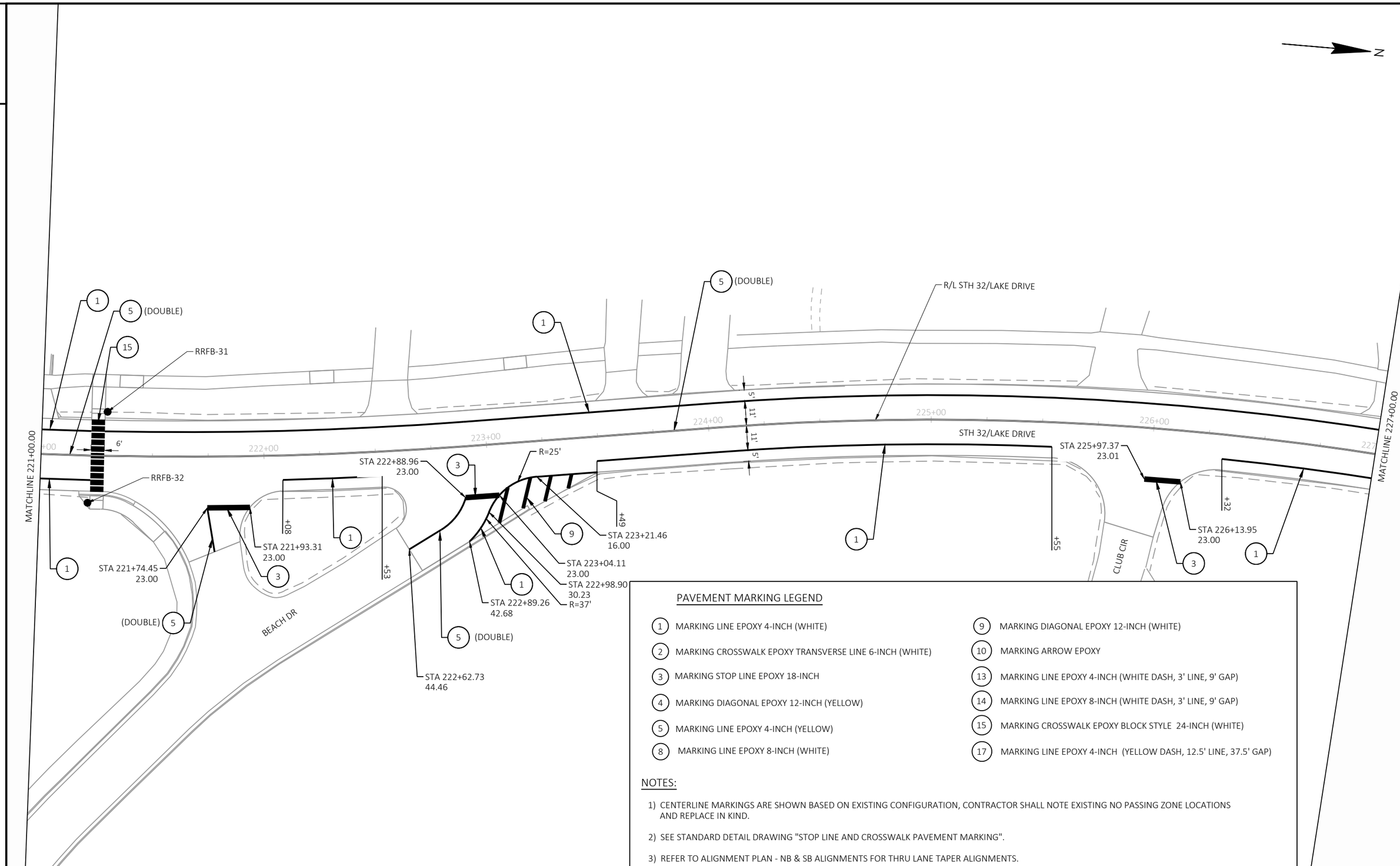
NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.

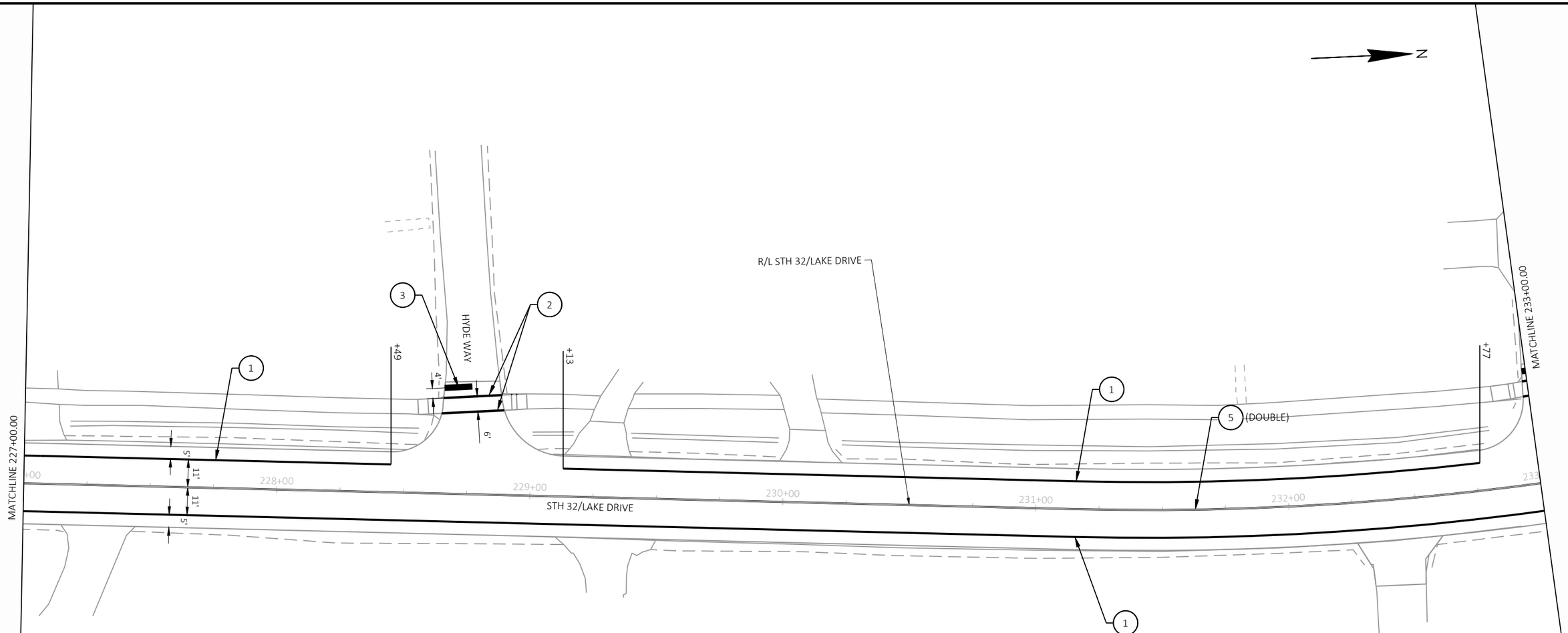
2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".

3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 226	E



PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 227	E



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
14. MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
15. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.
2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".
3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.

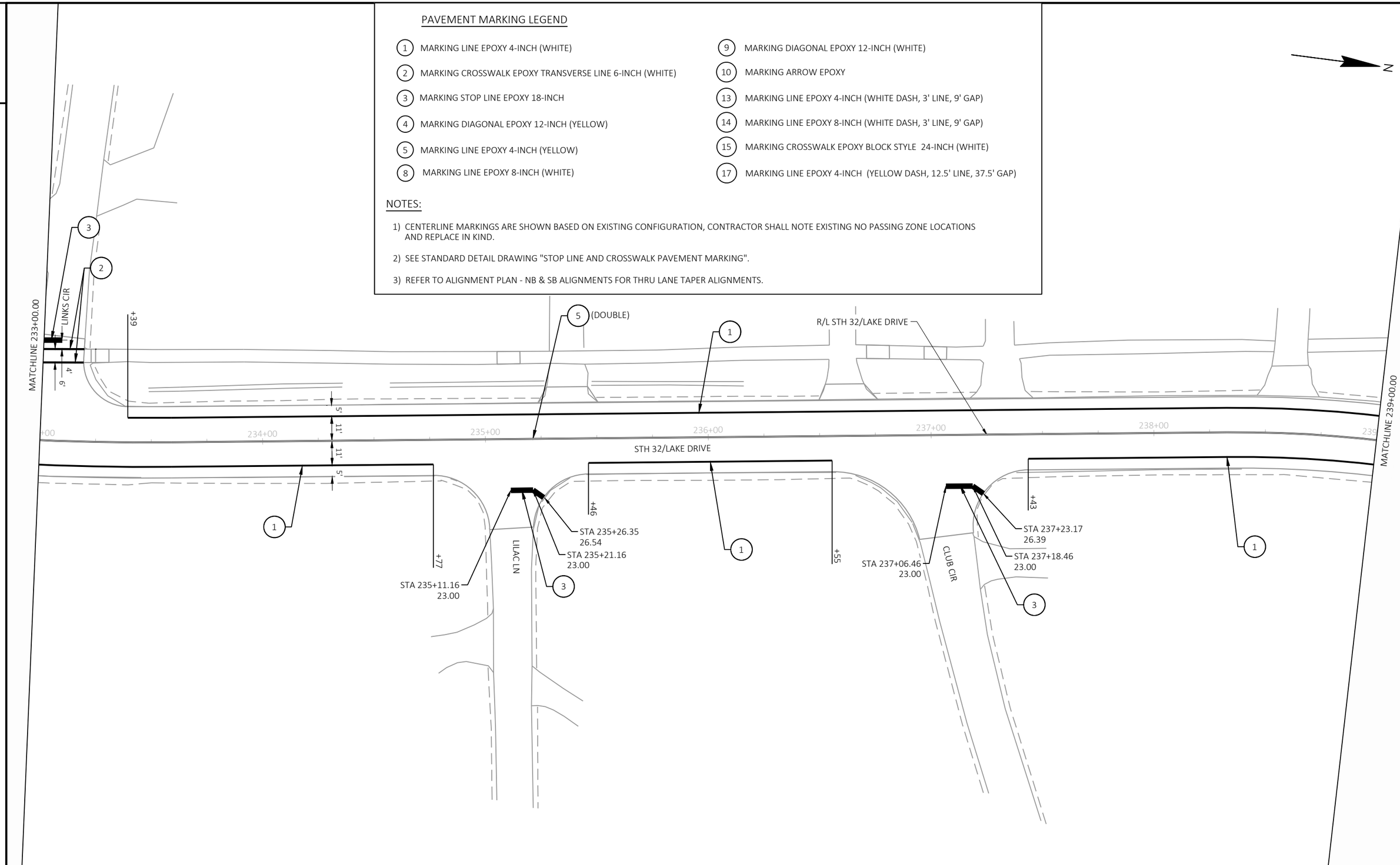
2

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
14. MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
15. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

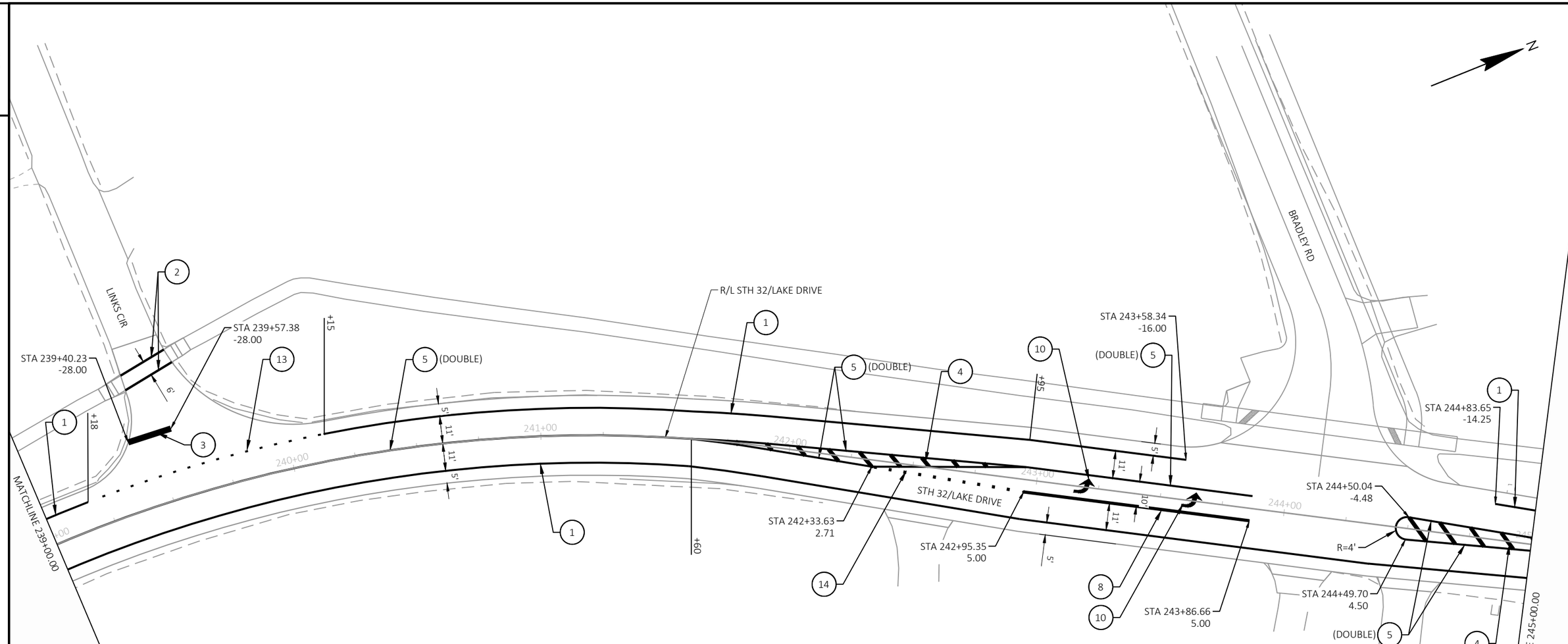
NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.
2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".
3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.



PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 229	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - (18)
PLOT DATE : 10/14/2024 6:51 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
14. MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
15. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.
2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".
3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 230	E

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
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NOTES:

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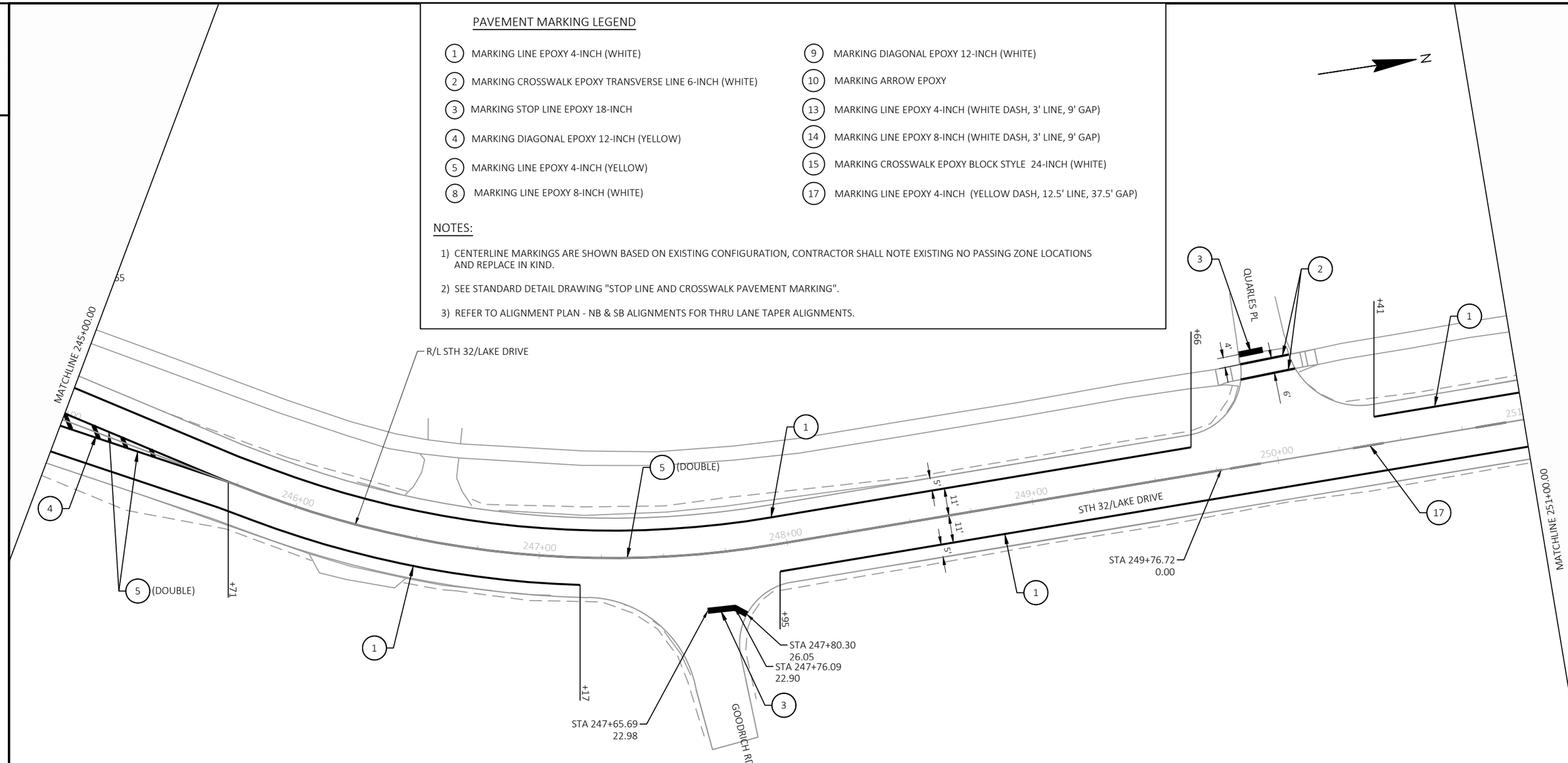
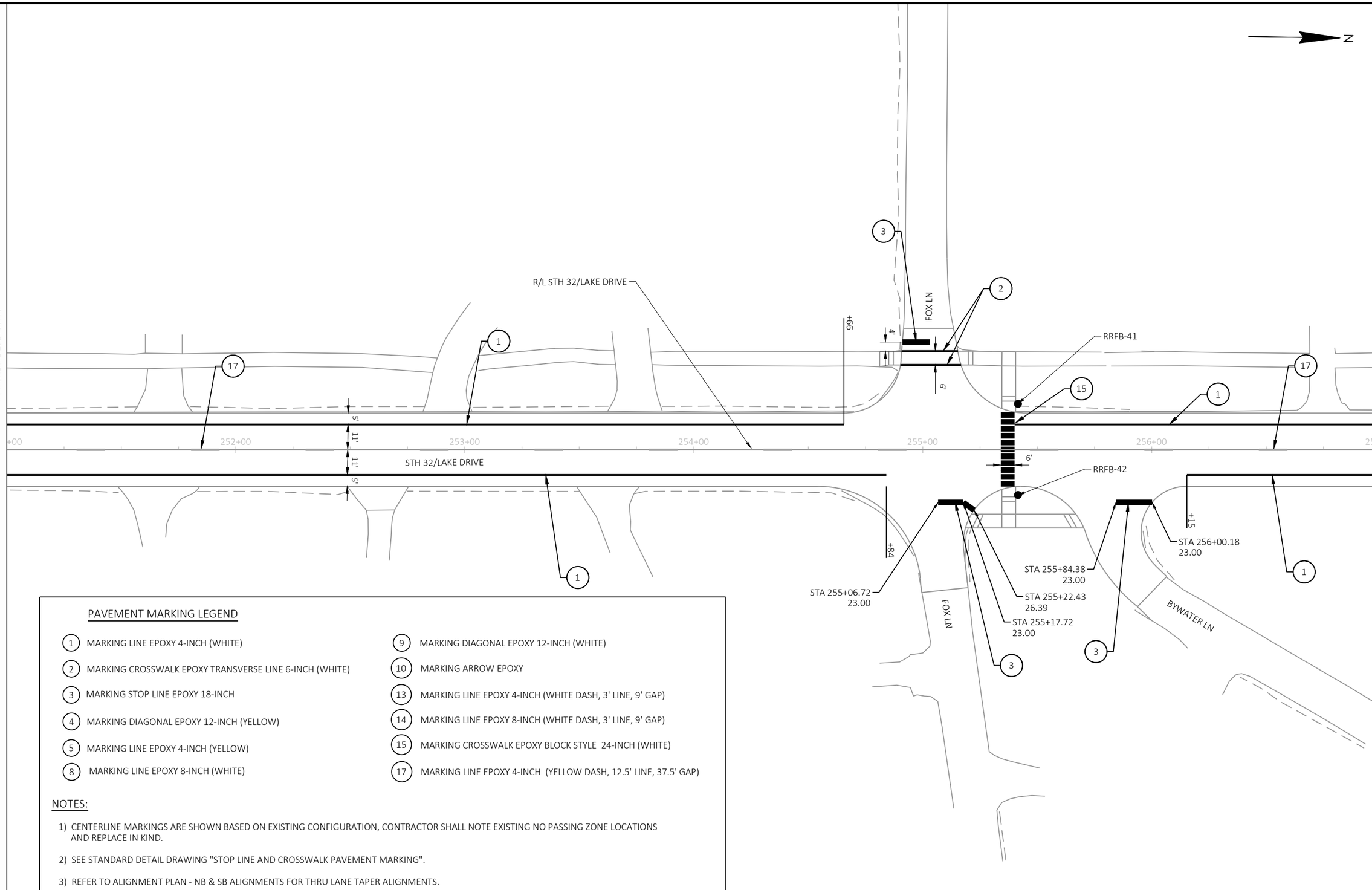
2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".
3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.





PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
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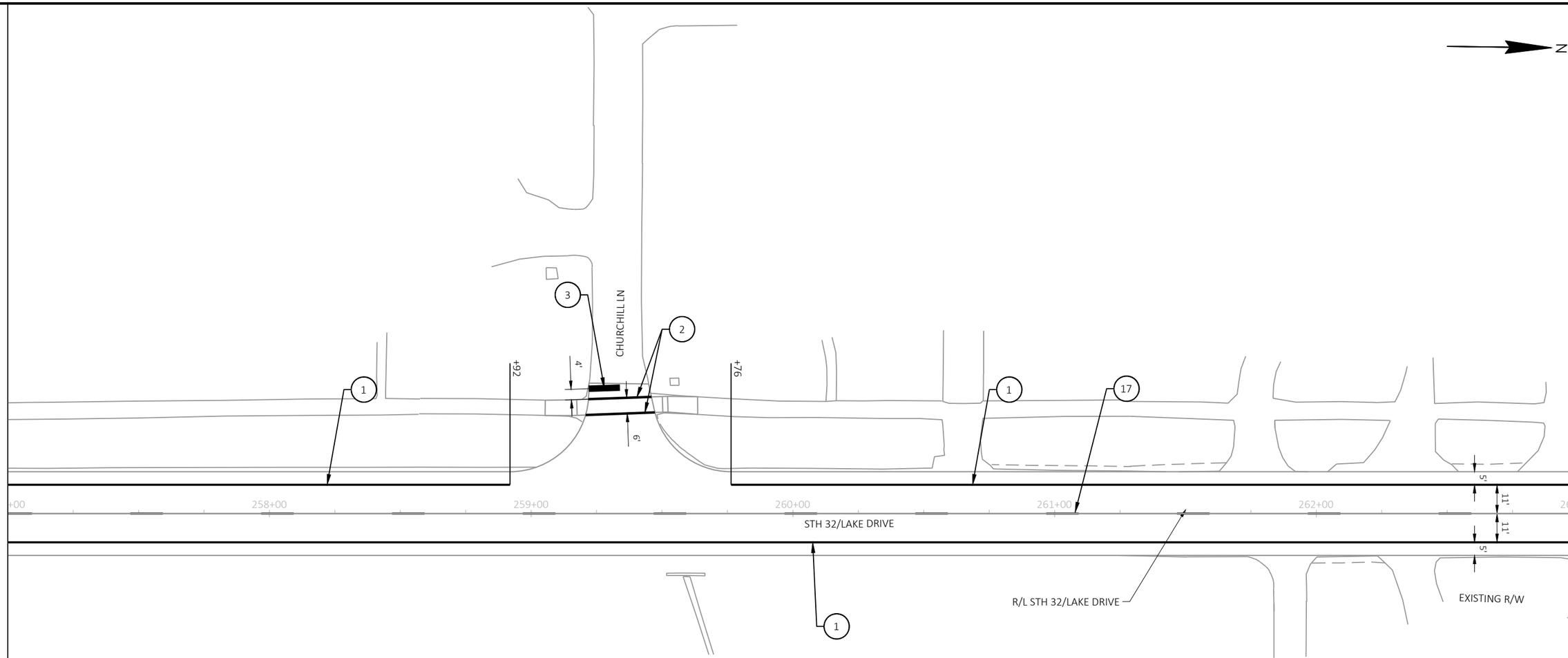
NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.

2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".

3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.



MATCHLINE 257+00.00

PAVEMENT MARKING LEGEND

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2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
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10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
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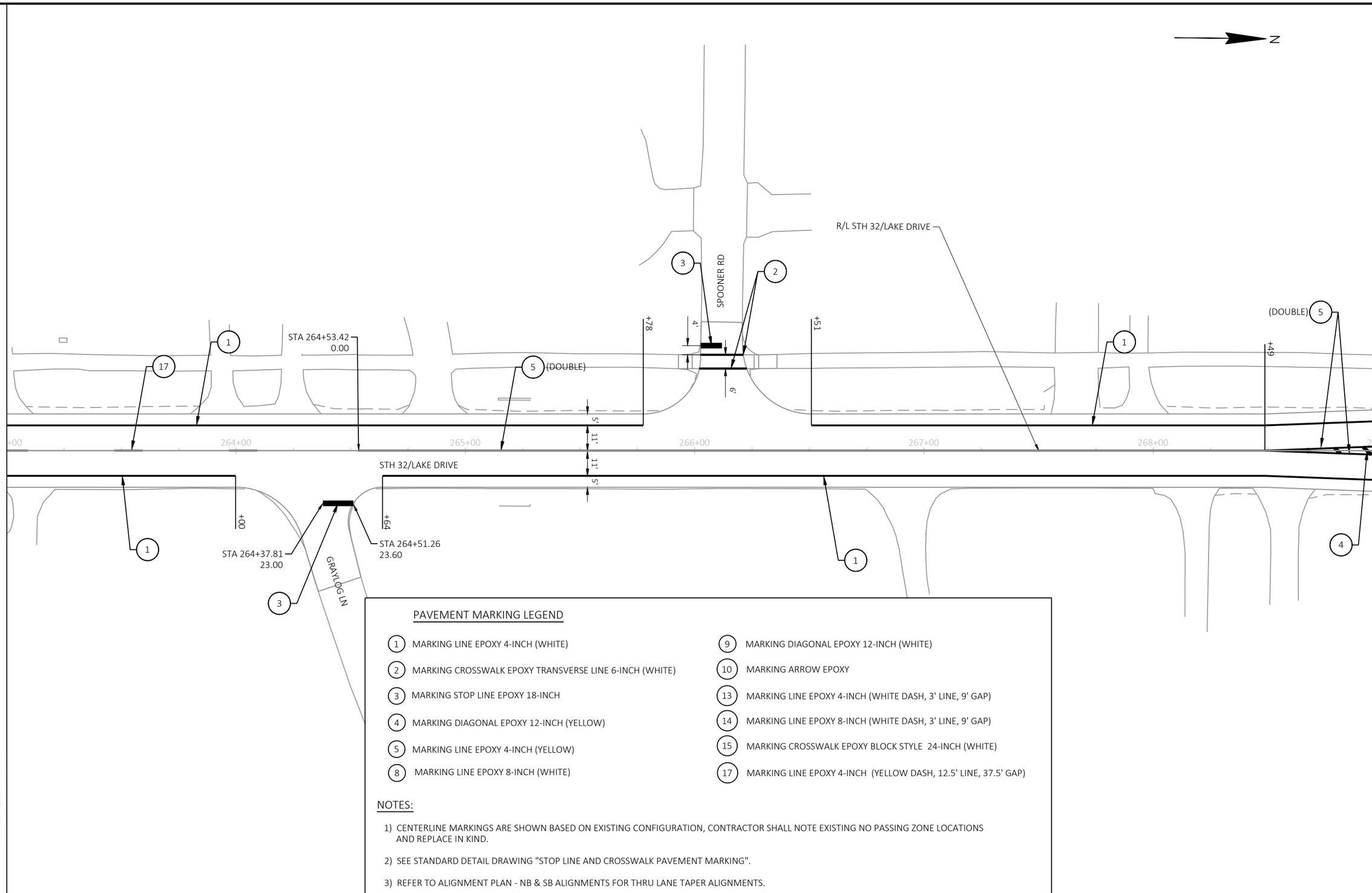
15. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW DASH, 12.5' LINE, 37.5' GAP)

NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.

2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".

3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.



PAVEMENT MARKING LEGEND

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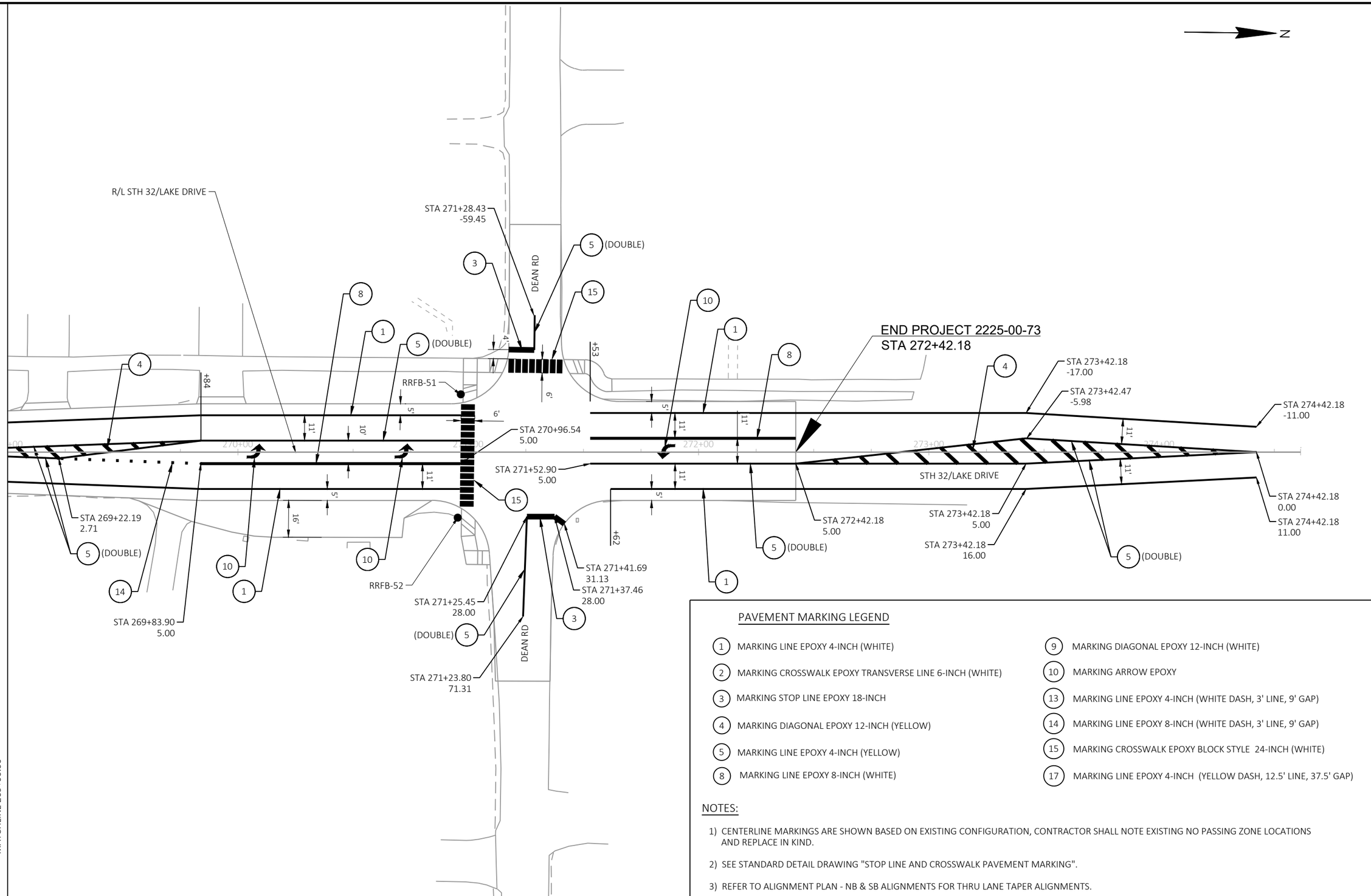
2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".
3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING STOP LINE EPOXY 18-INCH
4. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
5. MARKING LINE EPOXY 4-INCH (YELLOW)
8. MARKING LINE EPOXY 8-INCH (WHITE)
9. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
10. MARKING ARROW EPOXY
13. MARKING LINE EPOXY 4-INCH (WHITE DASH, 3' LINE, 9' GAP)
14. MARKING LINE EPOXY 8-INCH (WHITE DASH, 3' LINE, 9' GAP)
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NOTES:

1) CENTERLINE MARKINGS ARE SHOWN BASED ON EXISTING CONFIGURATION, CONTRACTOR SHALL NOTE EXISTING NO PASSING ZONE LOCATIONS AND REPLACE IN KIND.

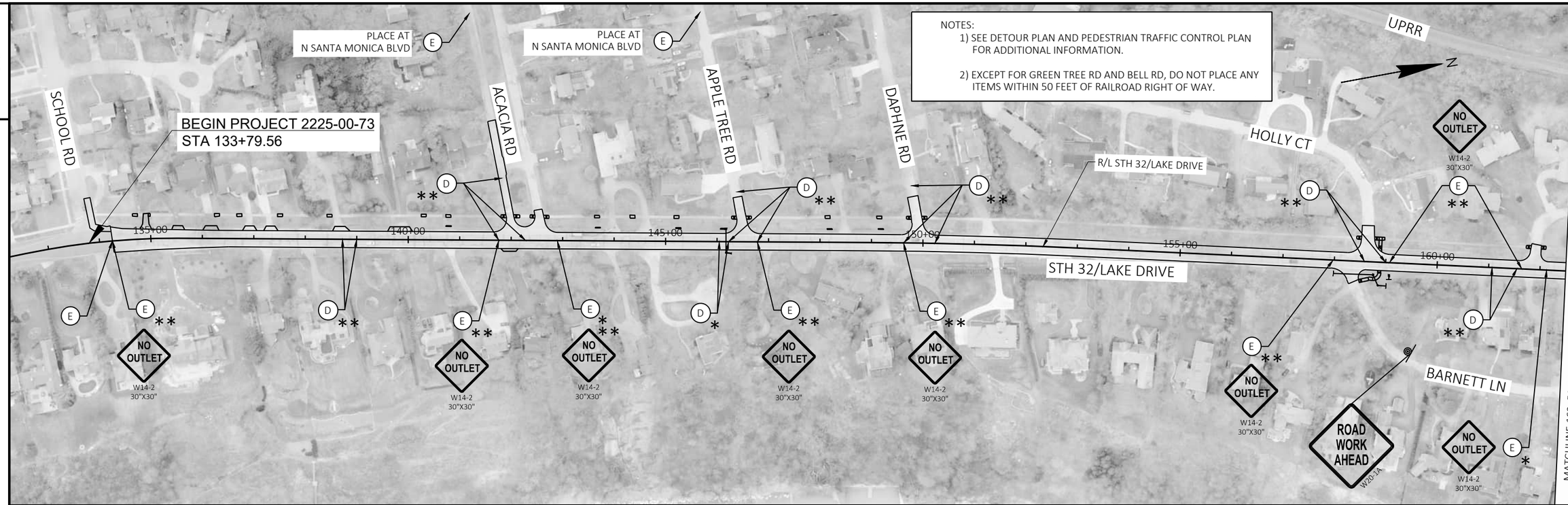
2) SEE STANDARD DETAIL DRAWING "STOP LINE AND CROSSWALK PAVEMENT MARKING".

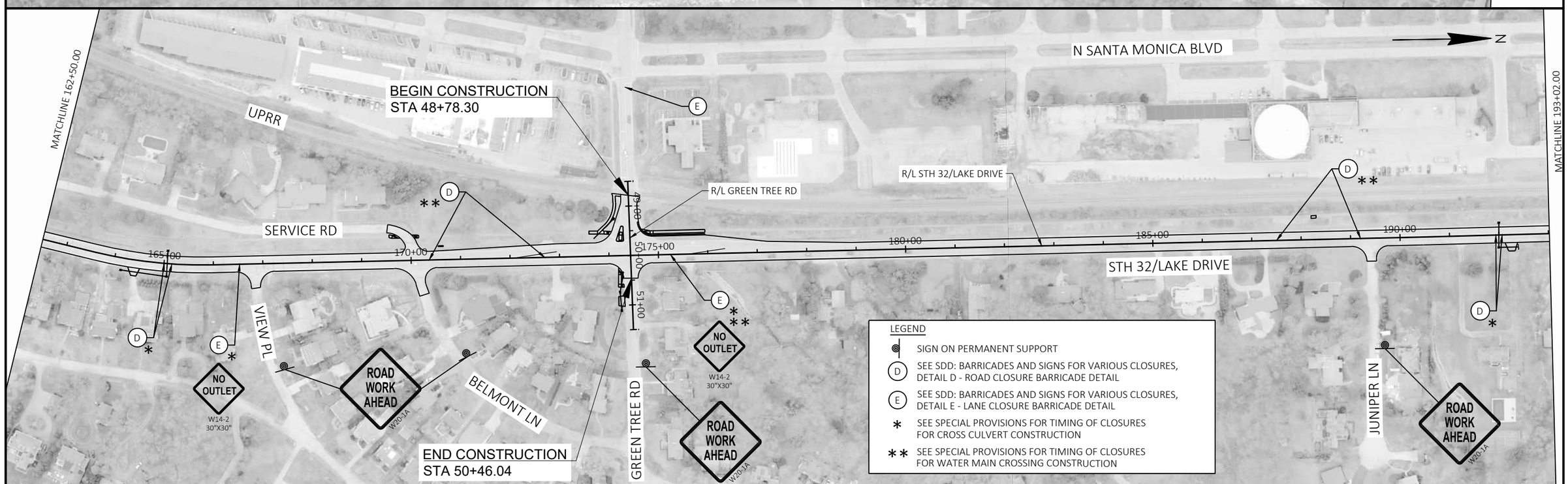
3) REFER TO ALIGNMENT PLAN - NB & SB ALIGNMENTS FOR THRU LANE TAPER ALIGNMENTS.

PROJECT NO: 2225-00-73 & 2225-00-74	HWY: STH 32	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 235	E

2

NOTES:
1) SEE DETOUR PLAN AND PEDESTRIAN TRAFFIC CONTROL PLAN FOR ADDITIONAL INFORMATION.
2) EXCEPT FOR GREEN TREE RD AND BELL RD, DO NOT PLACE ANY ITEMS WITHIN 50 FEET OF RAILROAD RIGHT OF WAY.



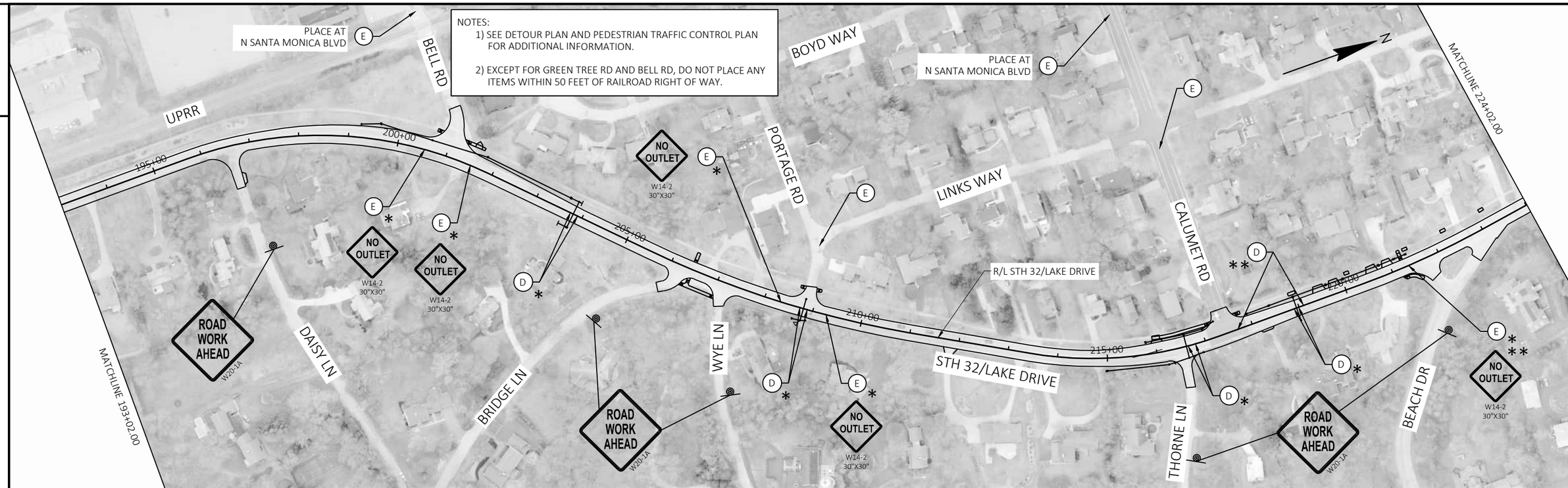


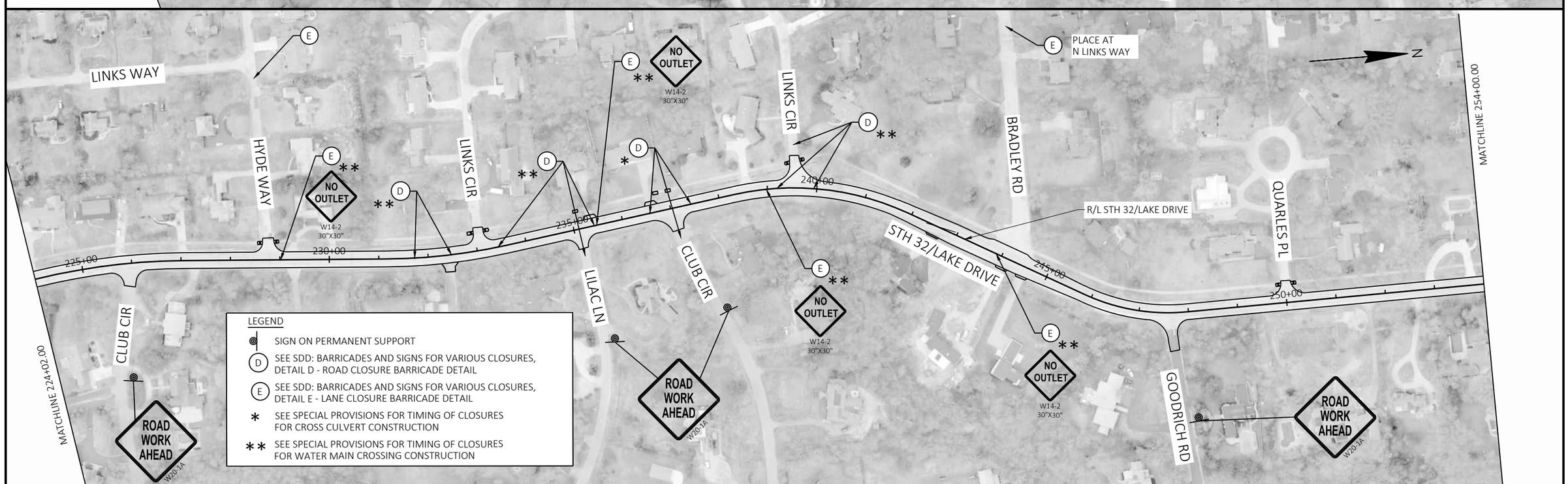
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	TRAFFIC CONTROL OVERVIEW	SHEET 236	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\025100-TC.DWG
LAYOUT NAME - TCOV - (1)
PLOT DATE : 10/14/2024 3:41 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

NOTES:
1) SEE DETOUR PLAN AND PEDESTRIAN TRAFFIC CONTROL PLAN FOR ADDITIONAL INFORMATION.
2) EXCEPT FOR GREEN TREE RD AND BELL RD, DO NOT PLACE ANY ITEMS WITHIN 50 FEET OF RAILROAD RIGHT OF WAY.

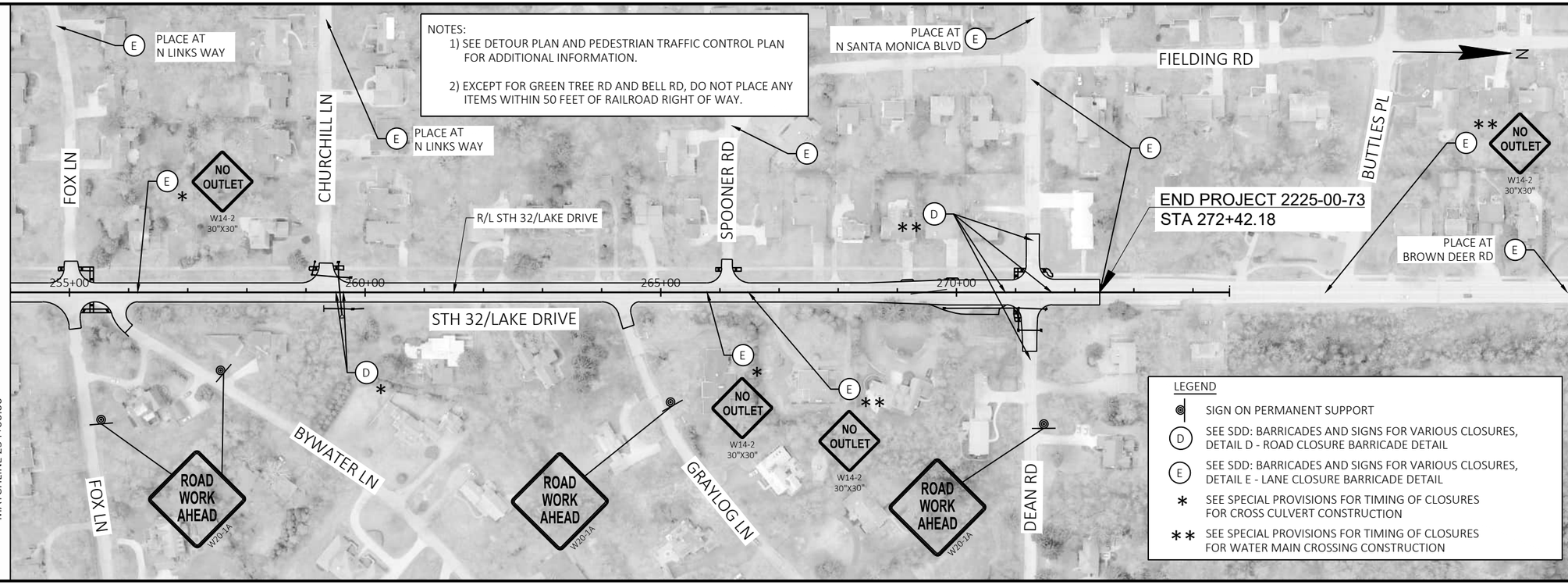




LEGEND

- SIGN ON PERMANENT SUPPORT
- (D) SEE SDD: BARRICADES AND SIGNS FOR VARIOUS CLOSURES, DETAIL D - ROAD CLOSURE BARRICADE DETAIL
- (E) SEE SDD: BARRICADES AND SIGNS FOR VARIOUS CLOSURES, DETAIL E - LANE CLOSURE BARRICADE DETAIL
- * SEE SPECIAL PROVISIONS FOR TIMING OF CLOSURES FOR CROSS CULVERT CONSTRUCTION
- ** SEE SPECIAL PROVISIONS FOR TIMING OF CLOSURES FOR WATER MAIN CROSSING CONSTRUCTION

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	TRAFFIC CONTROL OVERVIEW	SHEET 237	E



ANTICIPATED SEQUENCE OF CONSTRUCTION OPERATIONS

WATER MAIN

STORM SEWER

ROADWAY WIDENING ON BOTH SIDES

MILL EXISTING SURFACE AND PAVE LOWER LEVEL HMA, ONE DIRECTION AT A TIME

PAVE SURFACE LAYER HMA, ONE DIRECTION AT A TIME

TRAFFIC

STH 32 (LAKE DR) IS CLOSED TO THROUGH TRAFFIC. SEE DETOUR PLAN.

LOCAL AND EMERGENCY ACCESS IS MAINTAINED ON PAVEMENT. A MINIMUM WIDTH OF 16 FEET IS REQUIRED FOR TWO-WAY LOCAL TRAFFIC. FLAGGING OPERATIONS MUST BE USED WHEN WIDTH IS REDUCED TO LESS THAN 16 FEET.

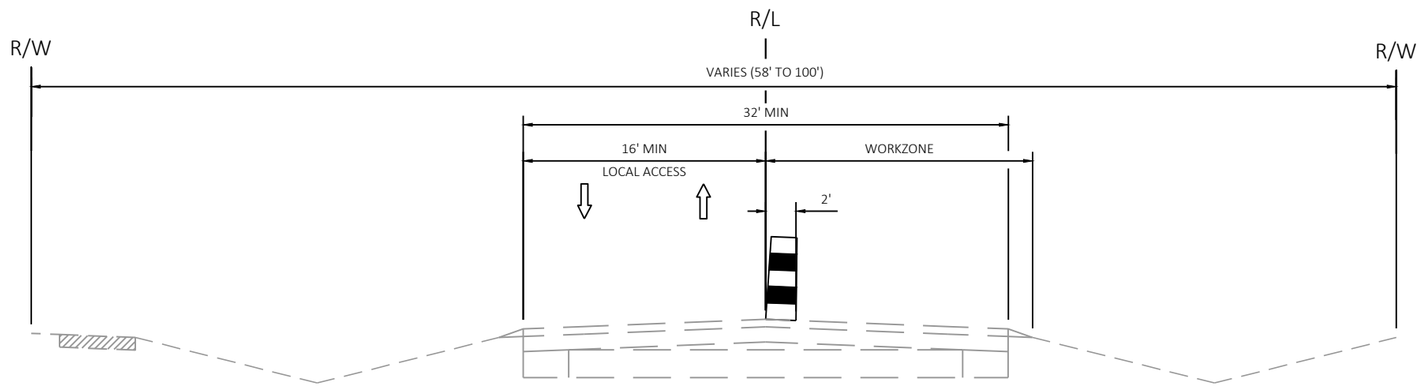
TEMPORARY FULL CLOSURES OF STH 32 WILL BE REQUIRED FOR STORM SEWER AND WATER MAIN CROSSINGS. ONLY ONE FULL CLOSURE MAY BE IN PLACE AT A TIME.

PEDESTRIAN ACCESS IS MAINTAINED AT ALL TIMES.

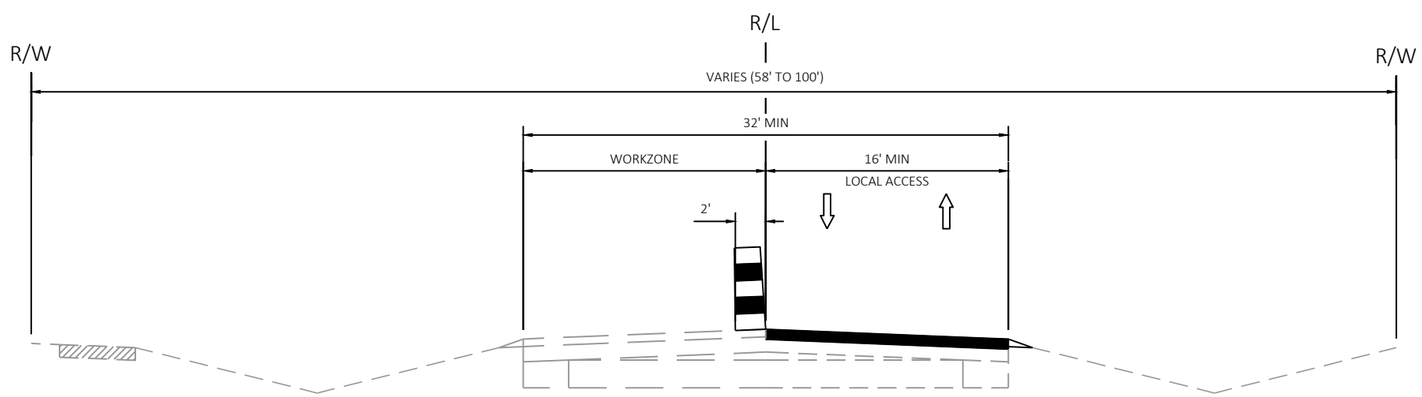
NOTE:

MAINTAIN 16' MIN WIDTH ON PAVEMENT FOR TWO-WAY TRAFFIC. USE FLAGGING OPERATION DURING MILLING AND PAVING WHEN WIDTH IS REDUCED TO LESS THAN 16'.

2



STH 32 (LAKE DRIVE) TYPICAL SECTION - LOCAL ACCESS ON EXISTING PAVEMENT



STH 32 (LAKE DRIVE) TYPICAL SECTION - LOCAL ACCESS ON PROPOSED PAVEMENT

LEGEND

- DETOUR ROUTE
- WORKZONE - ROAD CLOSED
- TYPE III BARRICADE WITH ATTACHED SIGN AND TWO TYPE "A" WARNING LIGHTS
- SIGN ON PERMANENT SUPPORT

1. DETOUR AHEAD — W20-2A
2. ROAD CLOSED TO THRU TRAFFIC 1 MILES AHEAD — R11-3, 60"X30"
3. DETOUR — M4-9L, 30"X24"
4. DETOUR — M4-9R, 30"X24"
5. DETOUR — M4-8, 24"X12"; NORTH — M3-1, 24"X12"; 32 — M1-6B, 24"X24"; MO6-1, 21"X21"
6. DETOUR — M4-8, 24"X12"; SOUTH — M3-3, 24"X12"; 32 — M1-6B, 24"X24"; MO6-1, 21"X21"
7. DETOUR — M4-8, 24"X12"; NORTH — M3-1, 24"X12"; 32 — M1-6B, 24"X24"; MO5-1R, 21"X21"
8. DETOUR — M4-8, 24"X12"; SOUTH — M3-3, 24"X12"; 32 — M1-6B, 24"X24"; MO5-1R, 21"X21"
9. DETOUR — M4-8, 24"X12"; NORTH — M3-1, 24"X12"; 32 — M1-6B, 24"X24"; MO6-1, 21"X21"
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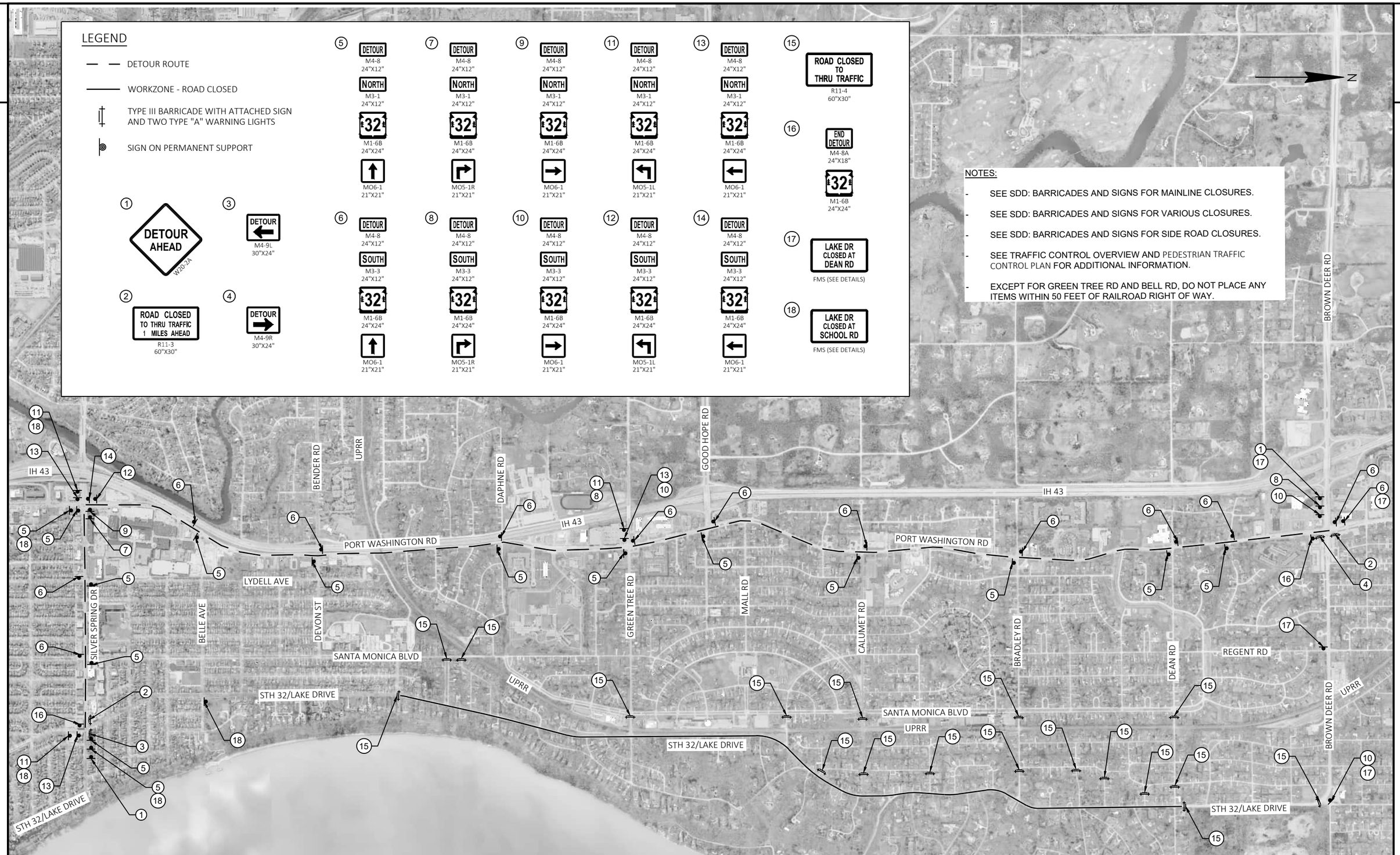
13. DETOUR — M4-8, 24"X12"; NORTH — M3-1, 24"X12"; 32 — M1-6B, 24"X24"; MO6-1, 21"X21"
14. DETOUR — M4-8, 24"X12"; SOUTH — M3-3, 24"X12"; 32 — M1-6B, 24"X24"; MO6-1, 21"X21"
15. ROAD CLOSED TO THRU TRAFFIC — R11-4, 60"X30"
16. END DETOUR — M4-8A, 24"X18"; 32 — M1-6B, 24"X24"
17. LAKE DR CLOSED AT DEAN RD — FMS (SEE DETAILS)
18. LAKE DR CLOSED AT SCHOOL RD — FMS (SEE DETAILS)

NOTES:

- SEE SDD: BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
- SEE SDD: BARRICADES AND SIGNS FOR VARIOUS CLOSURES.
- SEE SDD: BARRICADES AND SIGNS FOR SIDE ROAD CLOSURES.
- SEE TRAFFIC CONTROL OVERVIEW AND PEDESTRIAN TRAFFIC CONTROL PLAN FOR ADDITIONAL INFORMATION.
- EXCEPT FOR GREEN TREE RD AND BELL RD, DO NOT PLACE ANY ITEMS WITHIN 50 FEET OF RAILROAD RIGHT OF WAY.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	DETOUR PLAN	SHEET 240	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - DT1
PLOT DATE : 10/14/2024 3:42 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:1500 FT

2

PEDESTRIAN TRAFFIC CONTROL LEGEND

x x x x x x x	CLOSED PEDESTRIAN ROUTE
— — — —	OPEN PEDESTRIAN ROUTE
	WORK ZONE
CR	TEMPORARY PEDESTRIAN CURB RAMP
DWF	TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
	TEMPORARY PEDESTRIAN SURFACE
	TEMPORARY PEDESTRIAN BARRICADE
●	TRAFFIC CONTROL DRUM
	SIGN ON TEMPORARY SUPPORT
	TYPE III BARRICADE WITH TWO TYPE "A" WARNING LIGHTS
	TYPE III BARRICADE WTH ATTACHED SIGN AND TWO TYPE "A" WARNING LIGHTS
6	TEMPORARY MARKING LINE CROSSWALK, REMOVABLE TAPE 6-INCH (WHITE)

NOTES:

1) SEE TRAFFIC CONTROL PLAN AND DETOUR PLAN FOR ADDITIONAL INFORMATION.

2) SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, PEDESTRIAN ACCOMODATION."

3) MAINTAIN PEDESTRIAN ACCESS ALONG EXISTING ROUTES OR TEMPORARY ROUTES THROUGHOUT THE DURATION OF THE PROJECT.

4) ITEMS REQUIRED FOR TEMPORARY PEDESTRIAN ACCOMMODATIONS WILL BE PAID FOR UNDER ITEM "TEMPORARY PEDESTRIAN CROSSINGS" SEE SPECIFICATIONS.

5) TEMPORARY PEDESTRIAN ROUTES ARE SHOWN AT SUGGESTED LOCATIONS. FINAL LOCATIONS AND CONFIGURATIONS TO BE APPROVED BY THE ENGINEER IN THE FIELD.

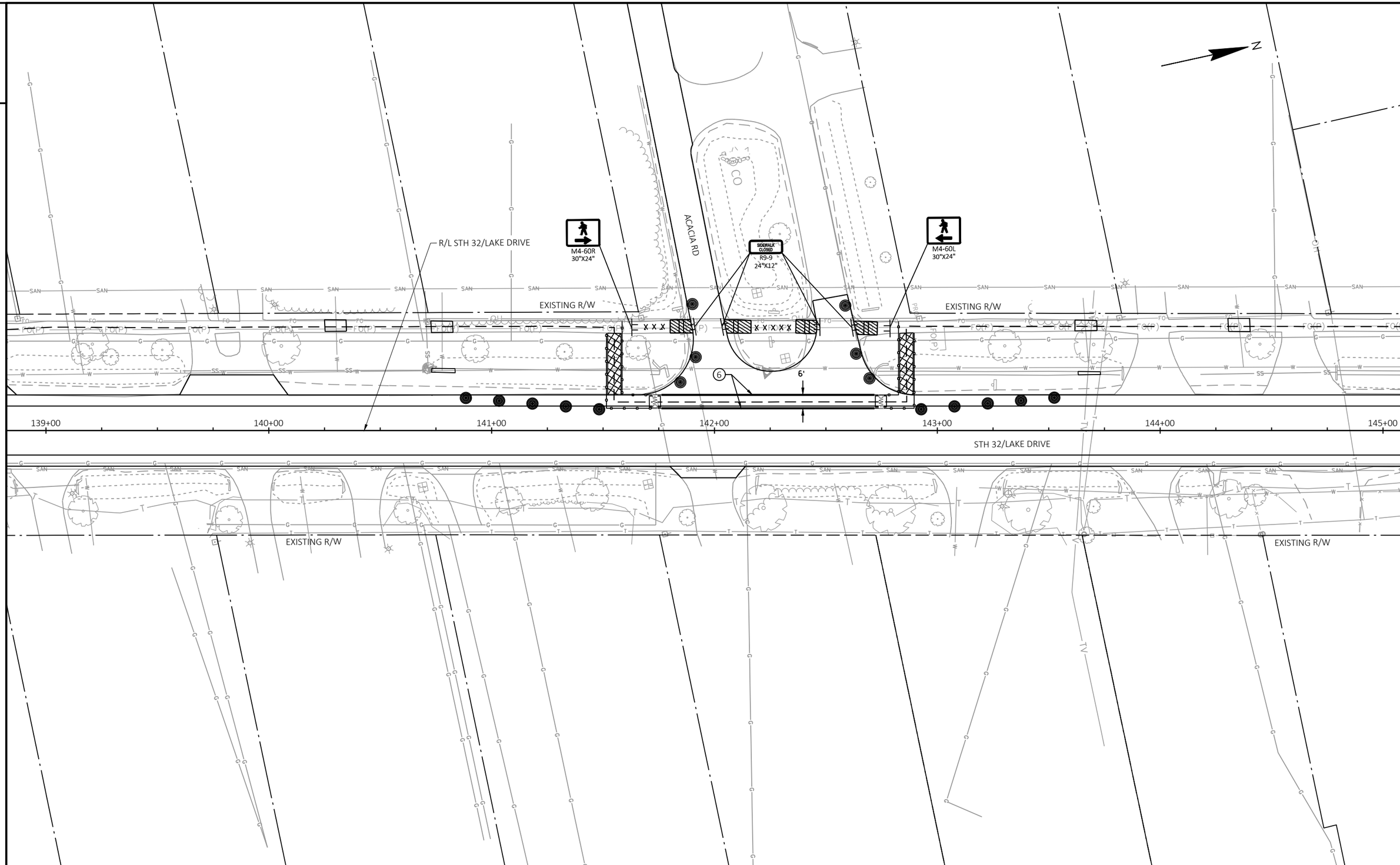
6) WHERE TEMPORARY PEDESTRIAN ROUTES CROSS DITCH LINES, MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.

7) SIDE SLOPES ALONG TEMPORARY PEDESTRIAN ROUTES SHALL BE FLATTER THAN 3:1 OR PROTECTED WITH A RAILING.

8) WHERE PEDESTRIAN ROUTES ARE BLOCKED BY WATER MAIN CONSTRUCTION, ESCORT PEDESTRIANS THROUGH THE WORK ZONE AND RESTORE THE PEDESTRIAN ROUTE WITH TEMPORARY OR PERMANENT SURFACE BY THE END OF THE WORK DAY.

9) EXCEPT FOR GREEN TREE RD AND BELL RD, DO NOT PLACE ANY ITEMS WITHIN 50 FEET OF RAILROAD RIGHT OF WAY.

2

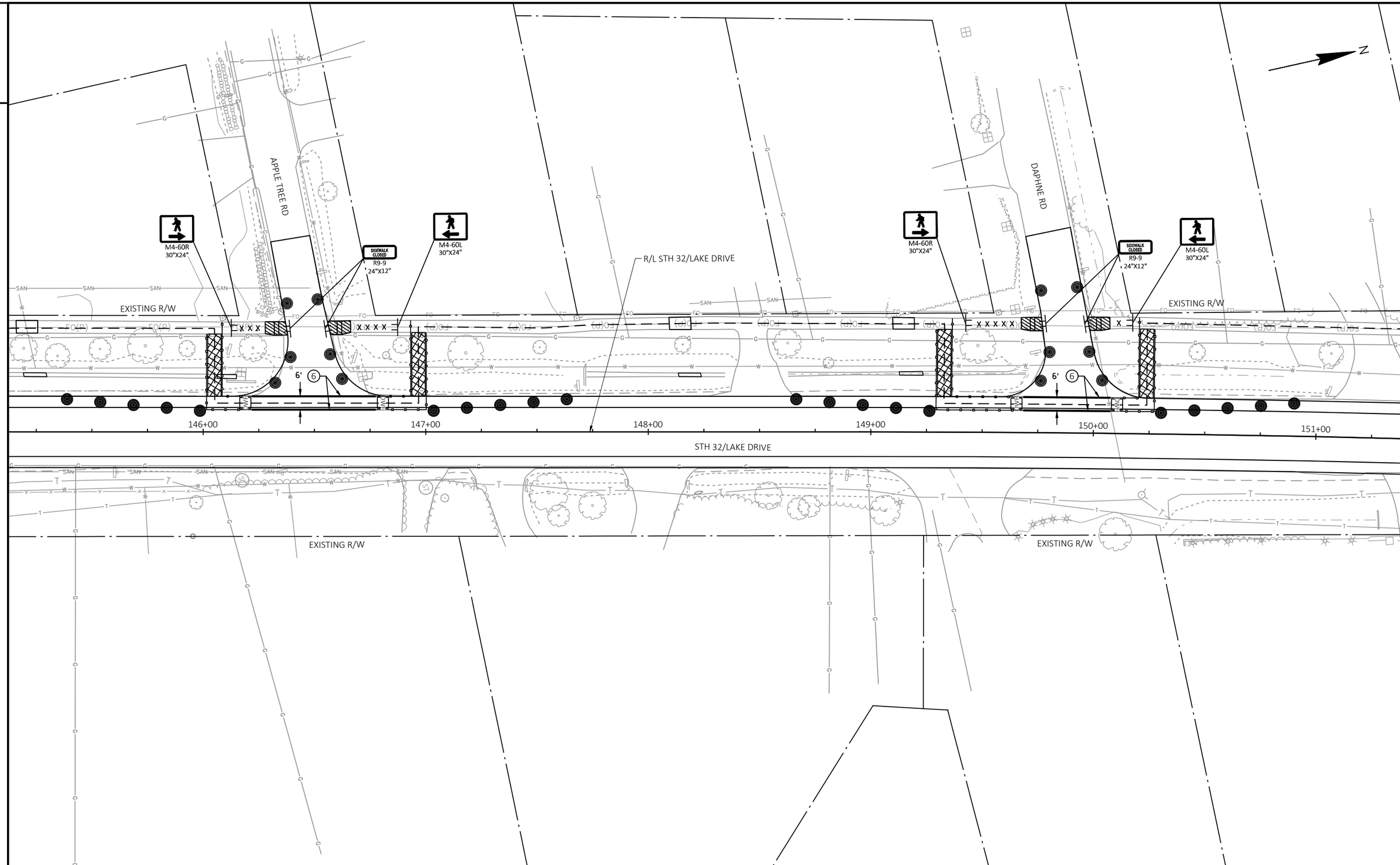


2

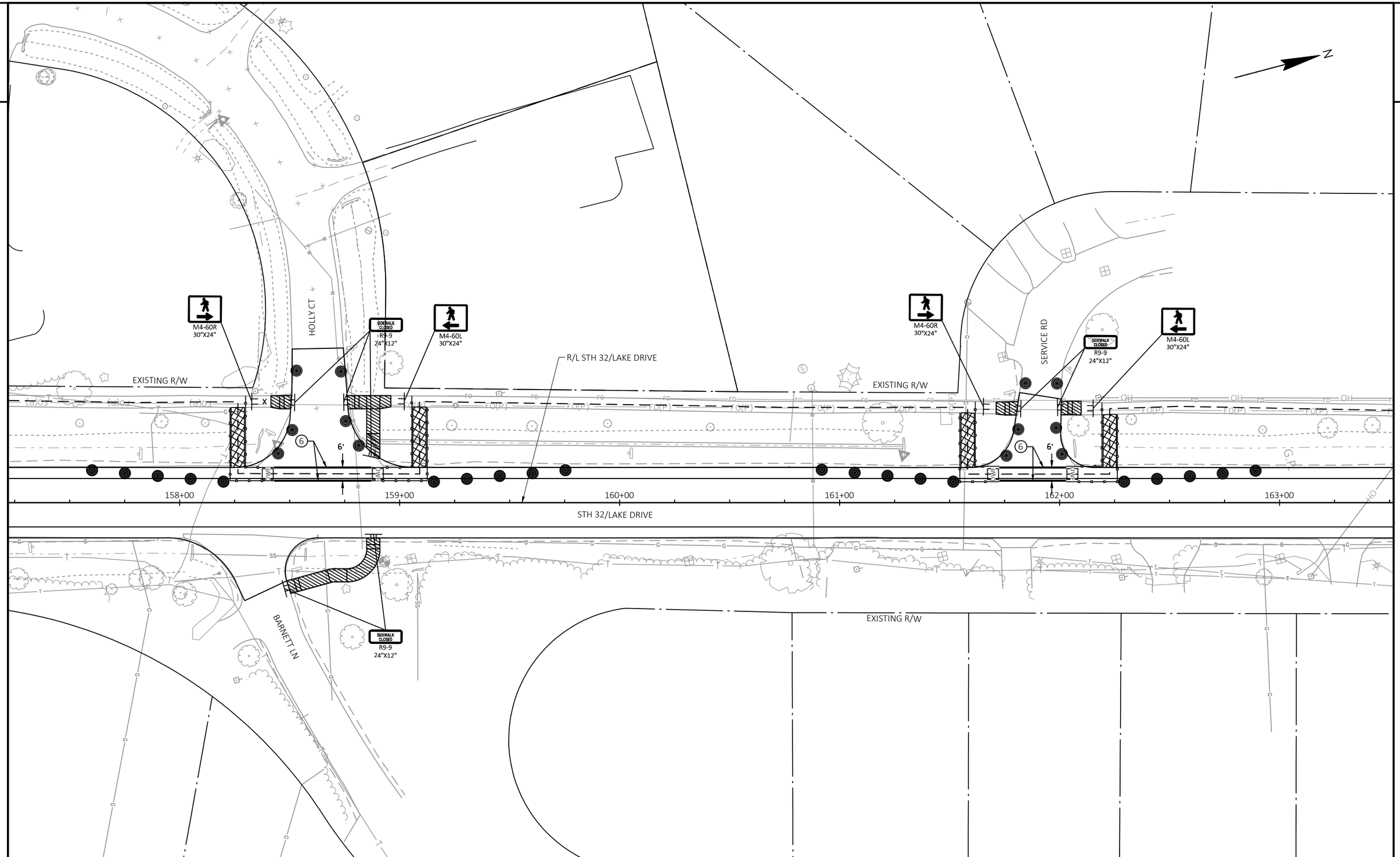
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PEDESTRIAN TRAFFIC CONTROL PLAN	SHEET 242	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\027101-DT.DWG
LAYOUT NAME - 01
PLOT DATE : 10/14/2024 3:43 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

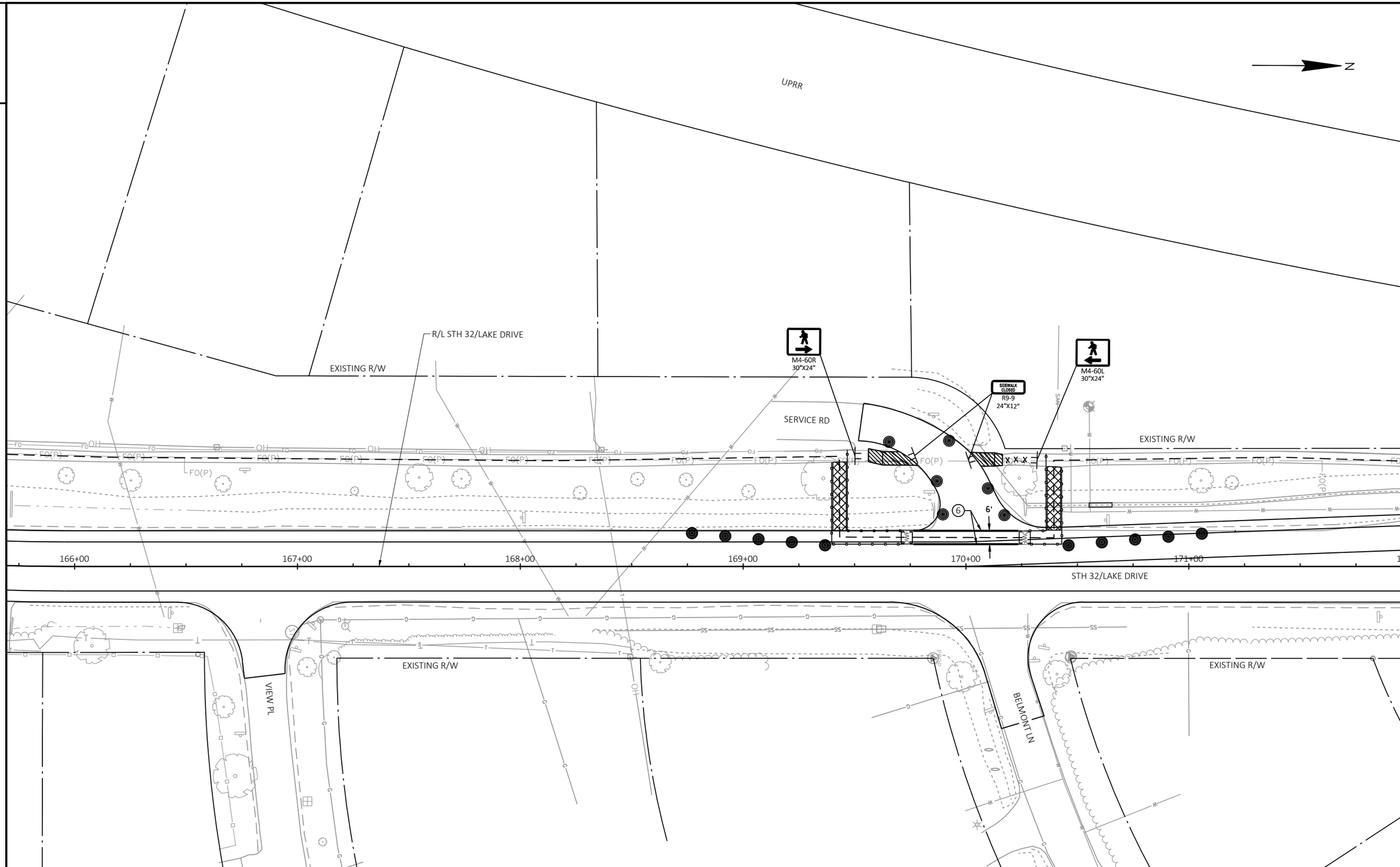


PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PEDESTRIAN TRAFFIC CONTROL PLAN	SHEET 243	E



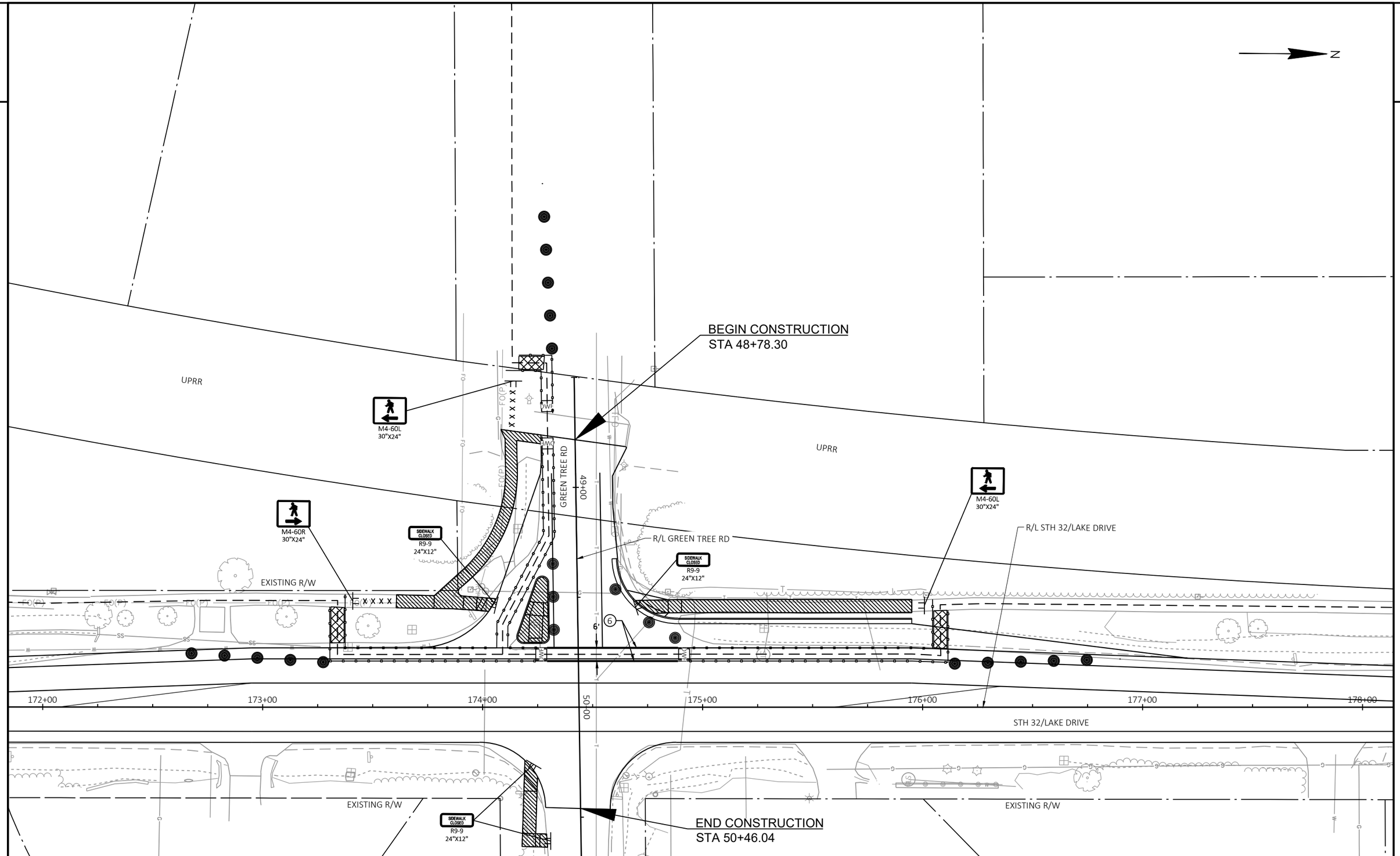
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PEDESTRIAN TRAFFIC CONTROL PLAN	SHEET 244	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\027101-DT.DWG
LAYOUT NAME - 03
PLOT DATE : 10/14/2024 3:43 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PEDESTRIAN TRAFFIC CONTROL PLAN	SHEET 245	E

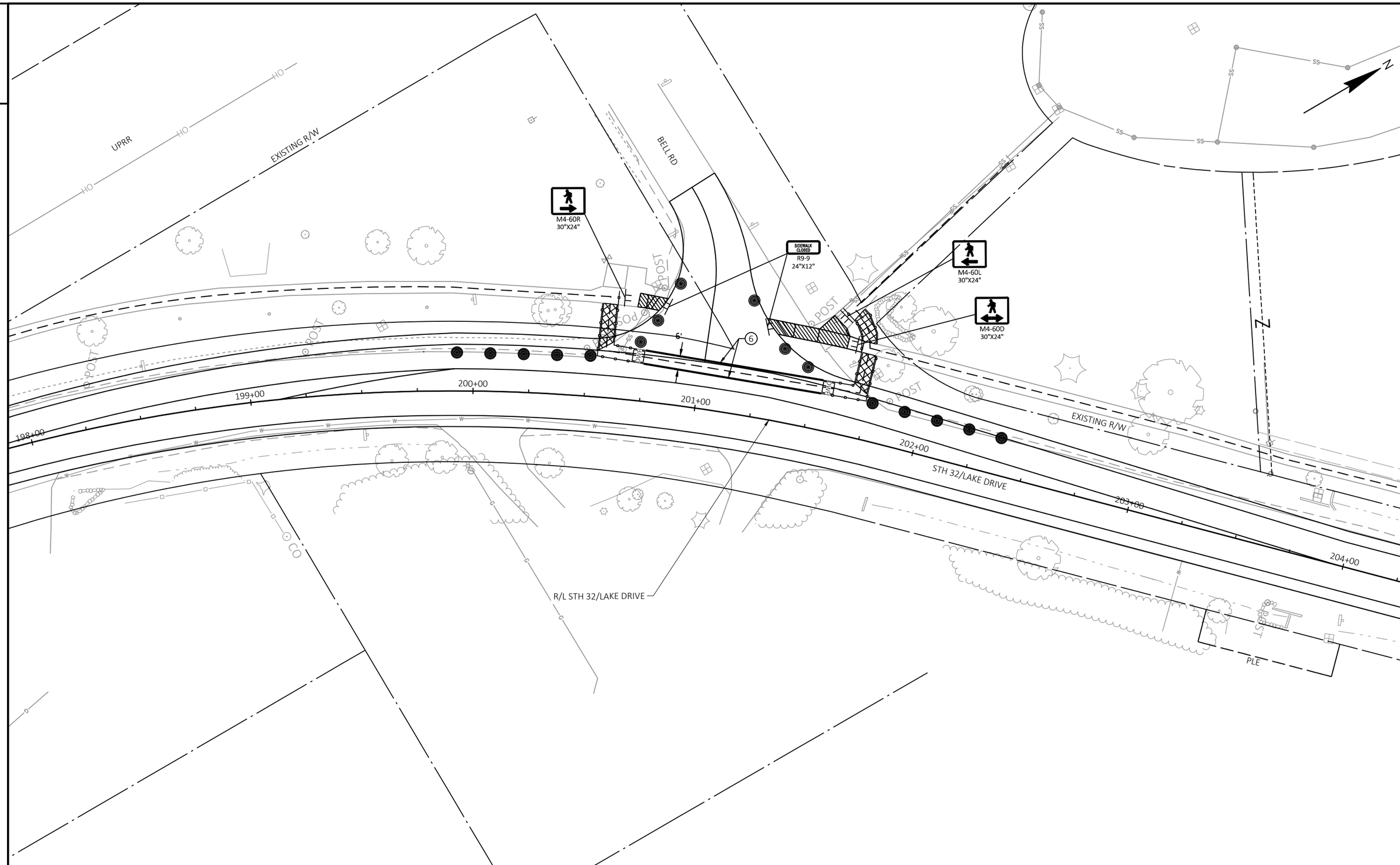
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\027101-DT.DWG
LAYOUT NAME - 04
PLOT DATE : 10/14/2024 3:43 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PEDESTRIAN TRAFFIC CONTROL PLAN	SHEET 246	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\027101-DT.DWG
LAYOUT NAME - 05
PLOT DATE : 10/14/2024 3:43 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

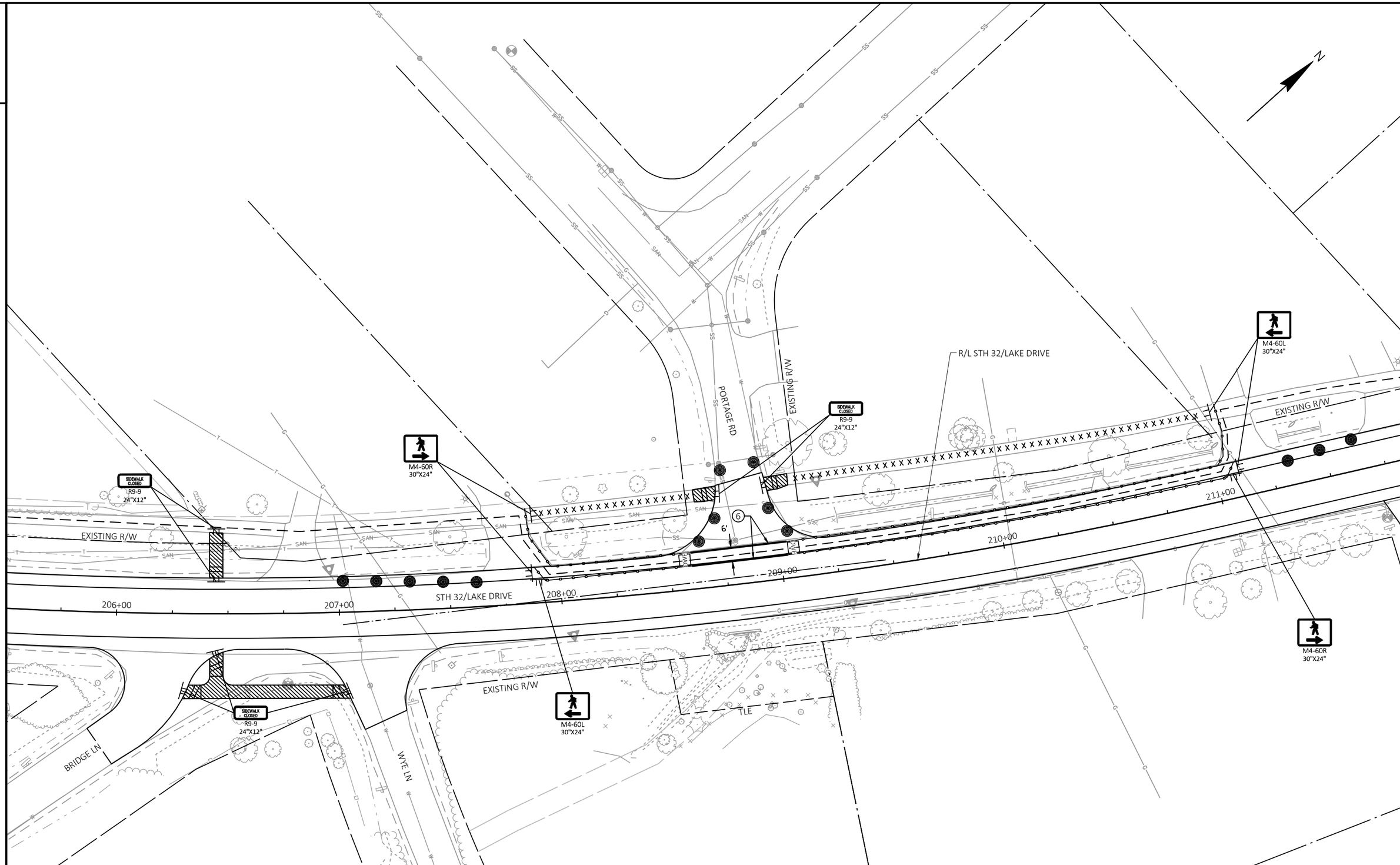


2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PEDESTRIAN TRAFFIC CONTROL PLAN	SHEET 247	E

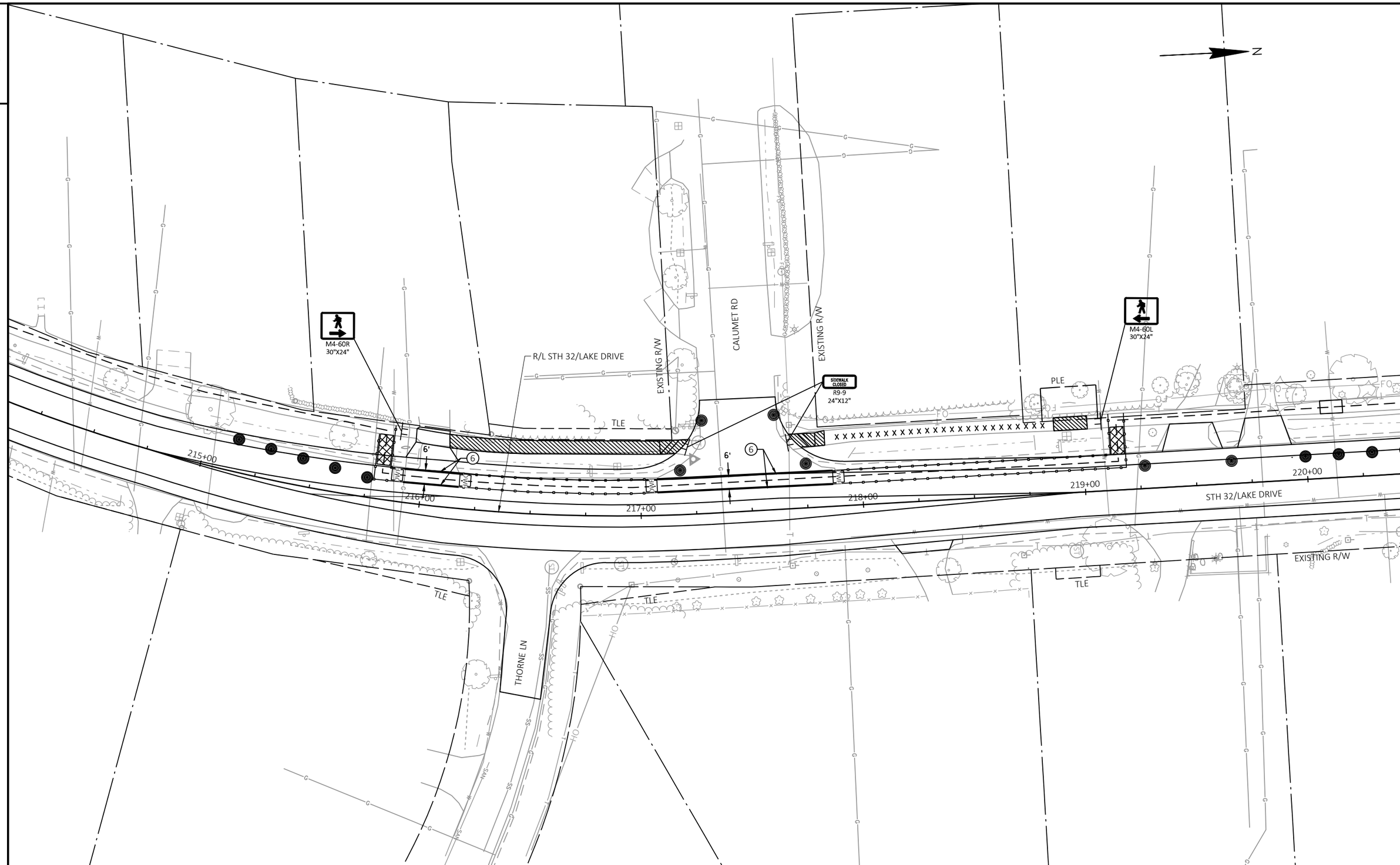
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\027101-DT.DWG
LAYOUT NAME - 06
PLOT DATE : 10/14/2024 3:43 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



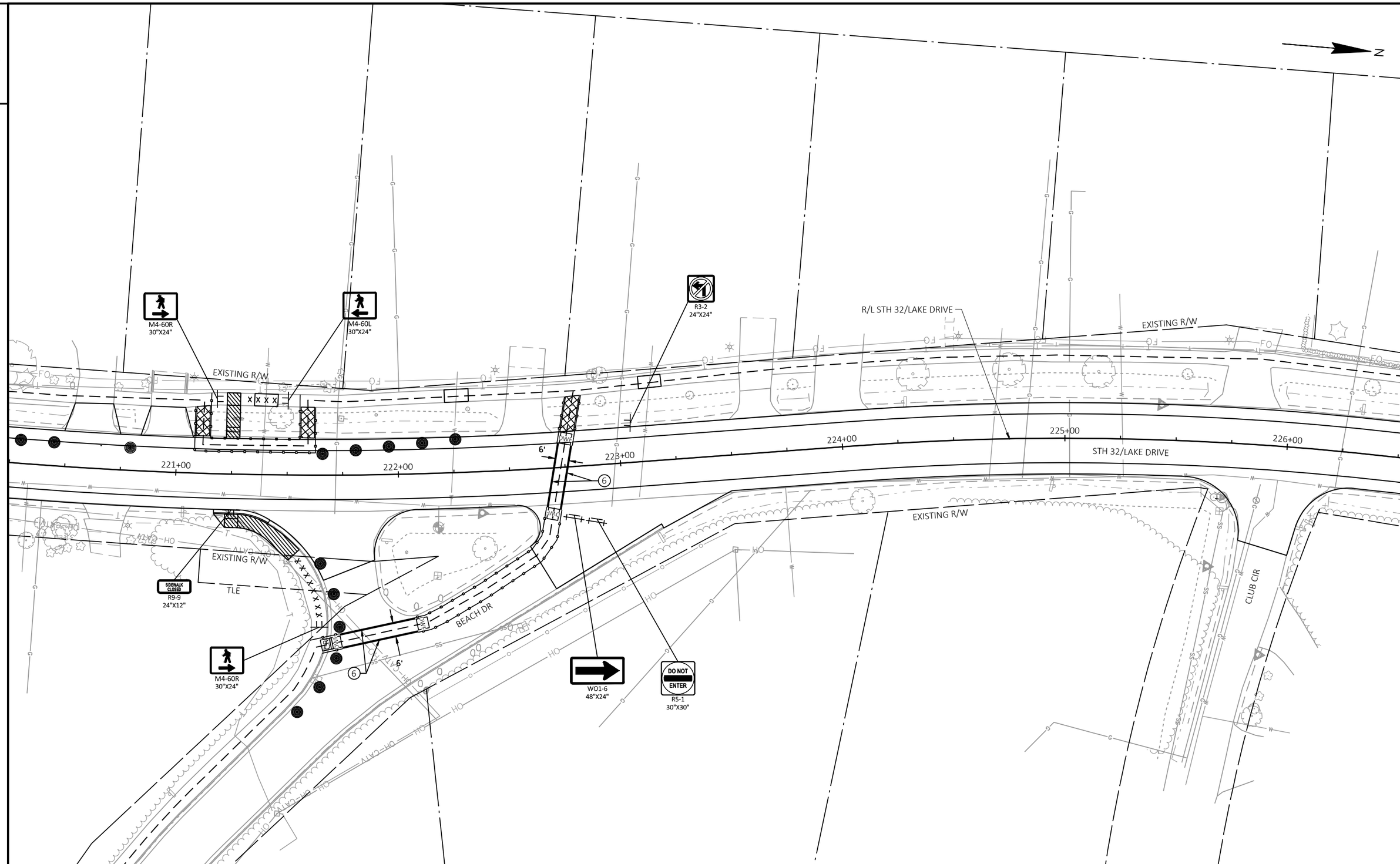
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PEDESTRIAN TRAFFIC CONTROL PLAN	SHEET 248	E

2



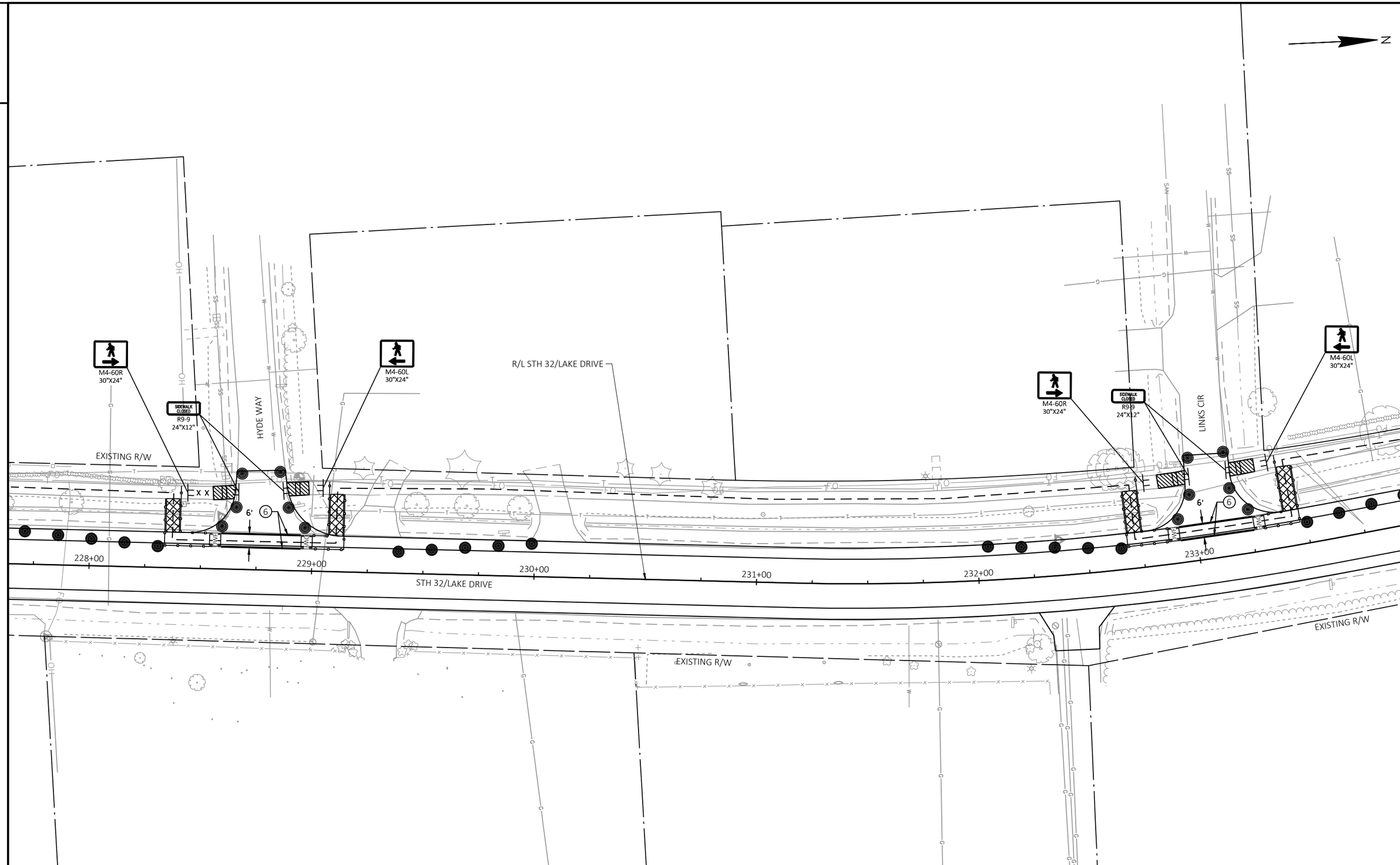
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PEDESTRIAN TRAFFIC CONTROL PLAN	SHEET 249	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\027101-DT.DWG
LAYOUT NAME - 08
PLOT DATE : 10/14/2024 3:43 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PEDESTRIAN TRAFFIC CONTROL PLAN	SHEET 250	E

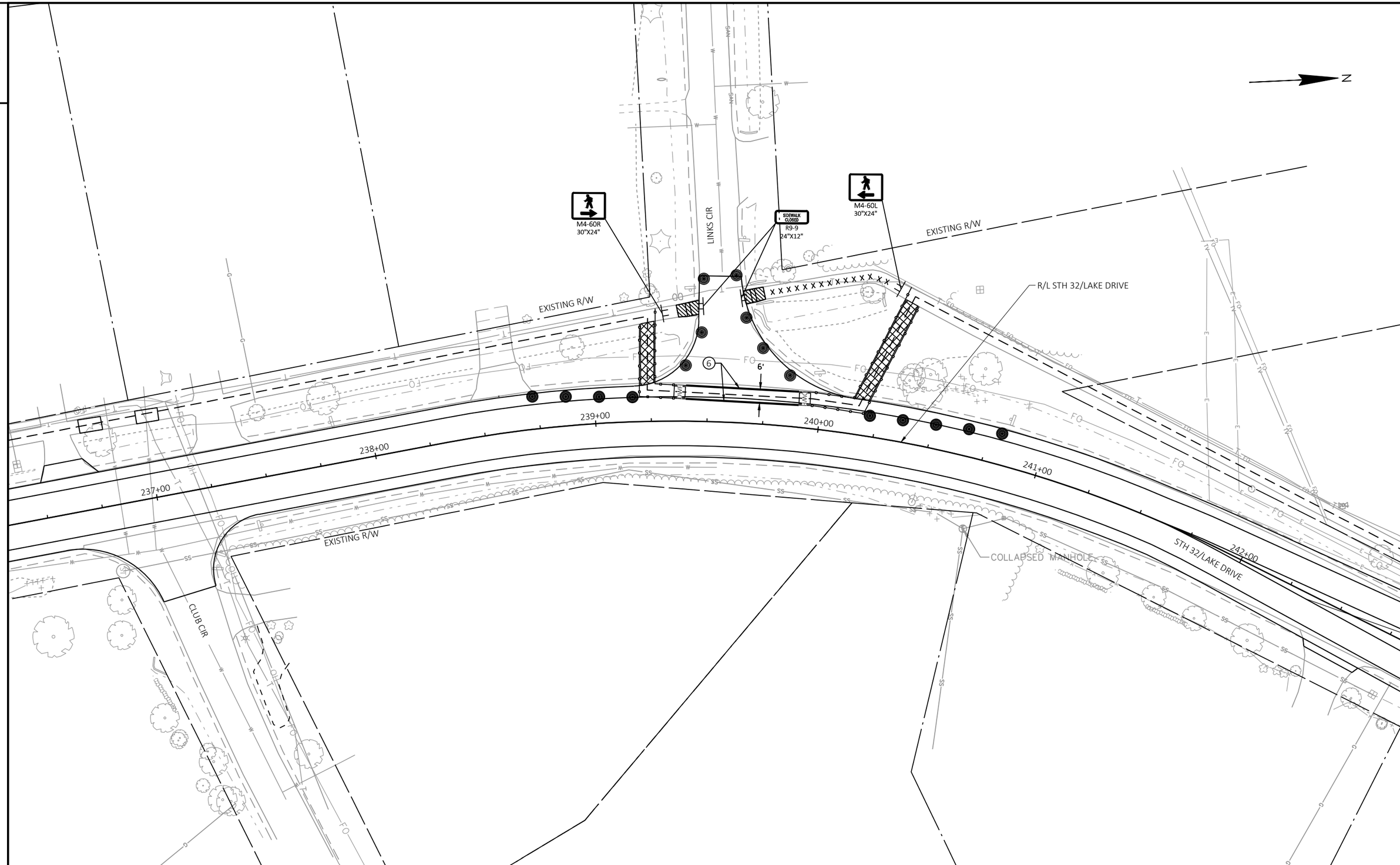
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\027101-DT.DWG
LAYOUT NAME - 09
PLOT DATE : 10/14/2024 3:43 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PEDESTRIAN TRAFFIC CONTROL PLAN	SHEET 251	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\027101-DT.DWG
LAYOUT NAME - 10
PLOT DATE : 10/14/2024 3:43 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

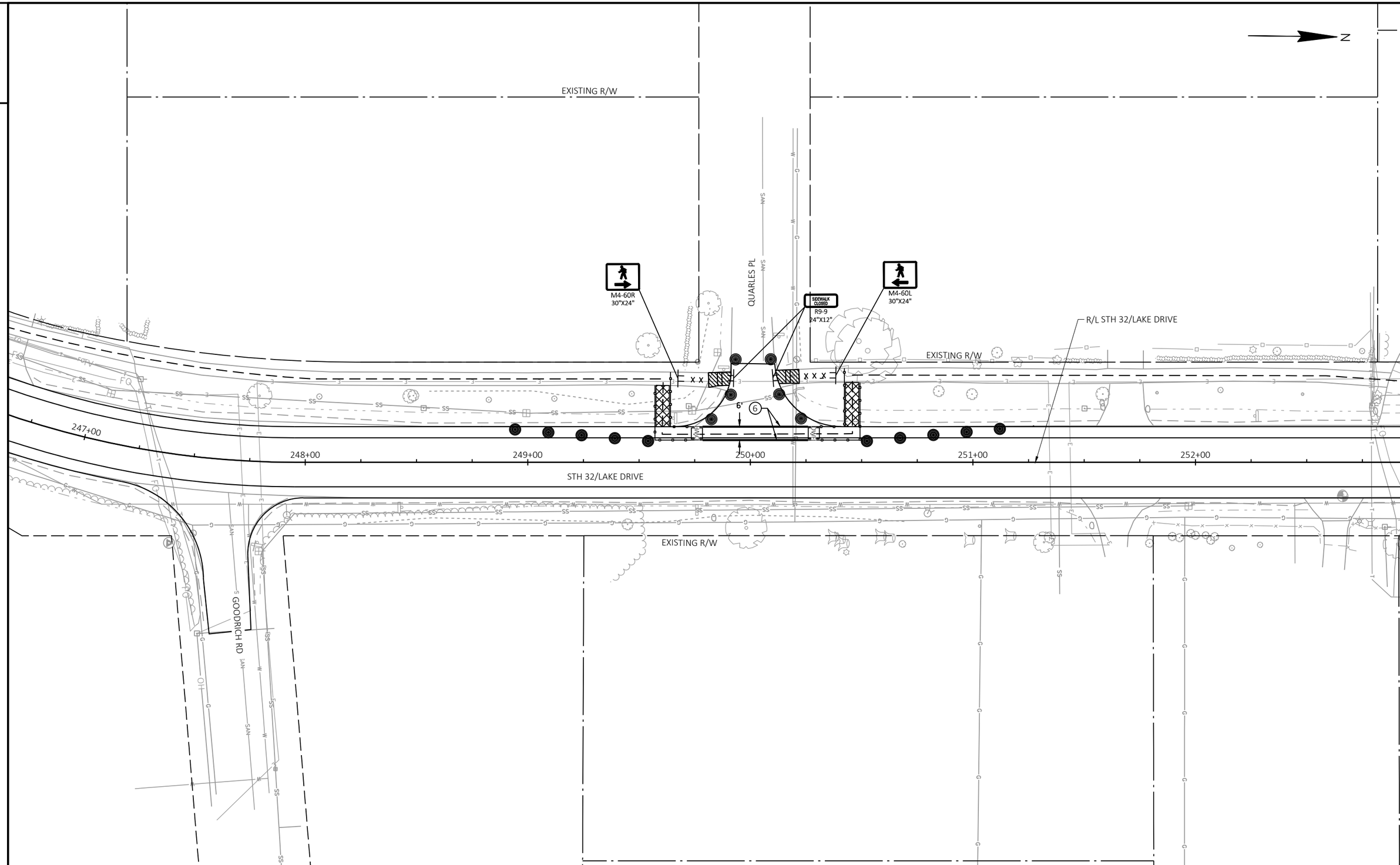
2



2

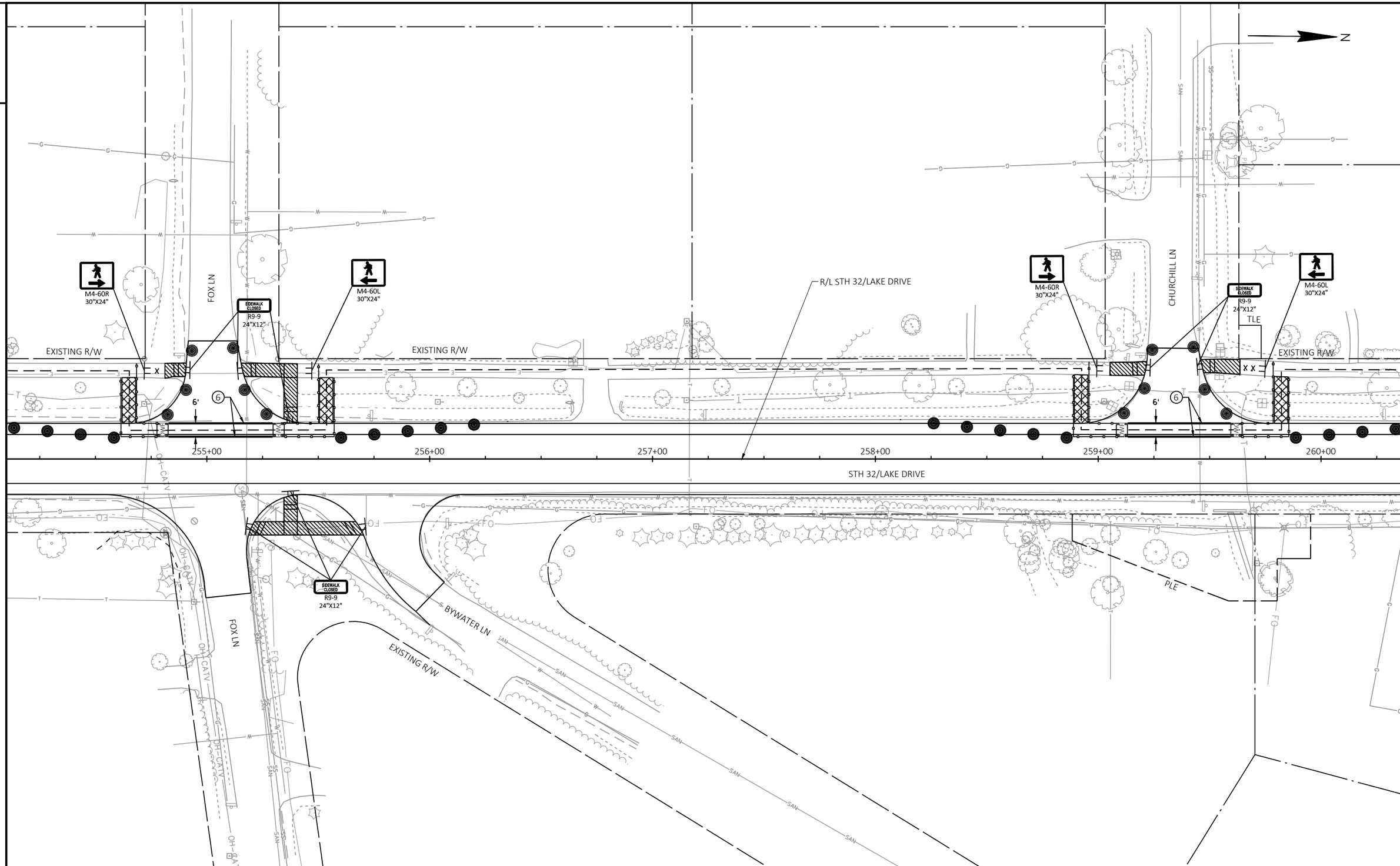
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PEDESTRIAN TRAFFIC CONTROL PLAN	SHEET 252	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\027101-DT.DWG
LAYOUT NAME - 11
PLOT DATE : 10/14/2024 3:43 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

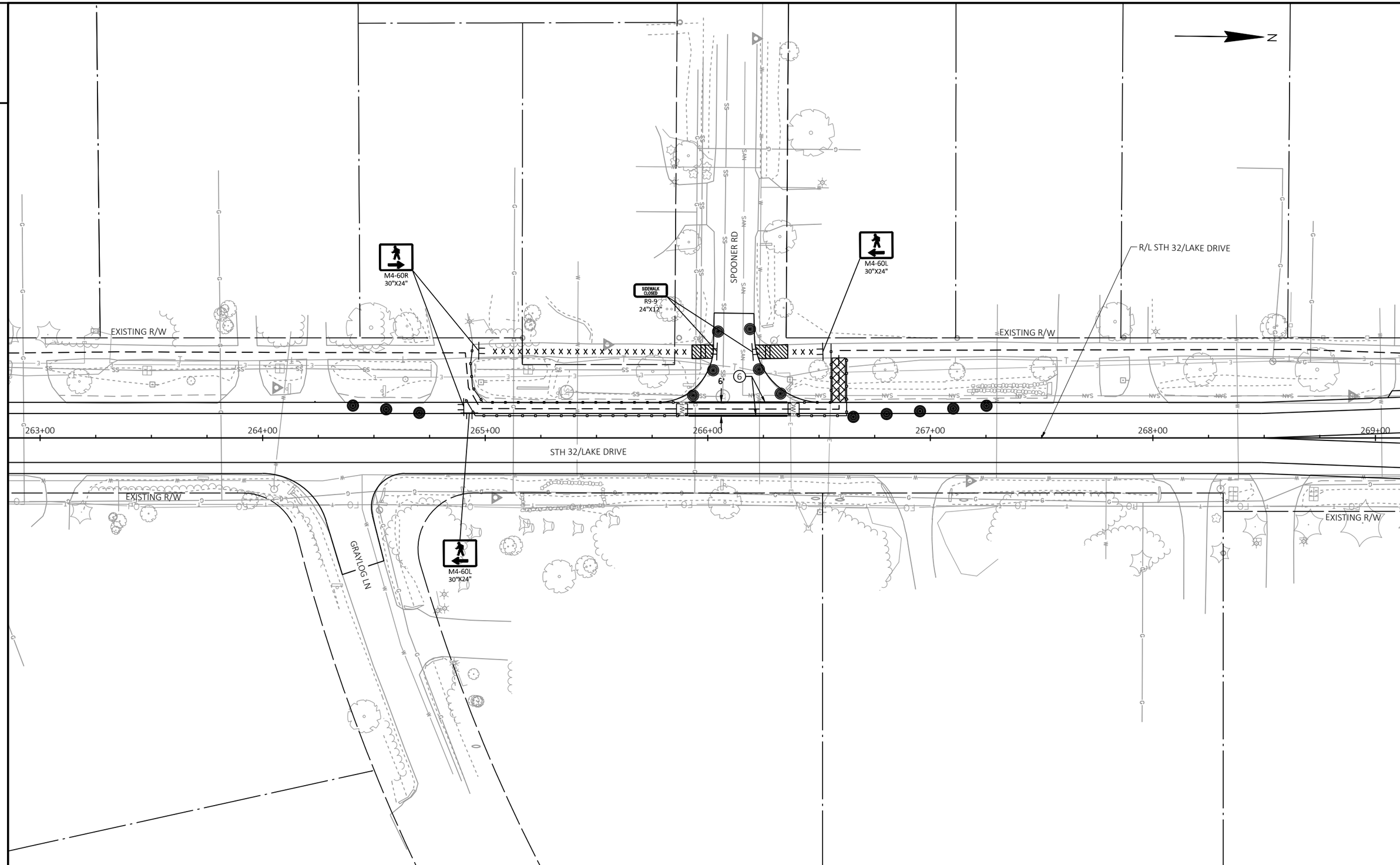


PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PEDESTRIAN TRAFFIC CONTROL PLAN	SHEET 253	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\027101-DT.DWG
LAYOUT NAME - 12
PLOT DATE : 10/14/2024 3:44 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT



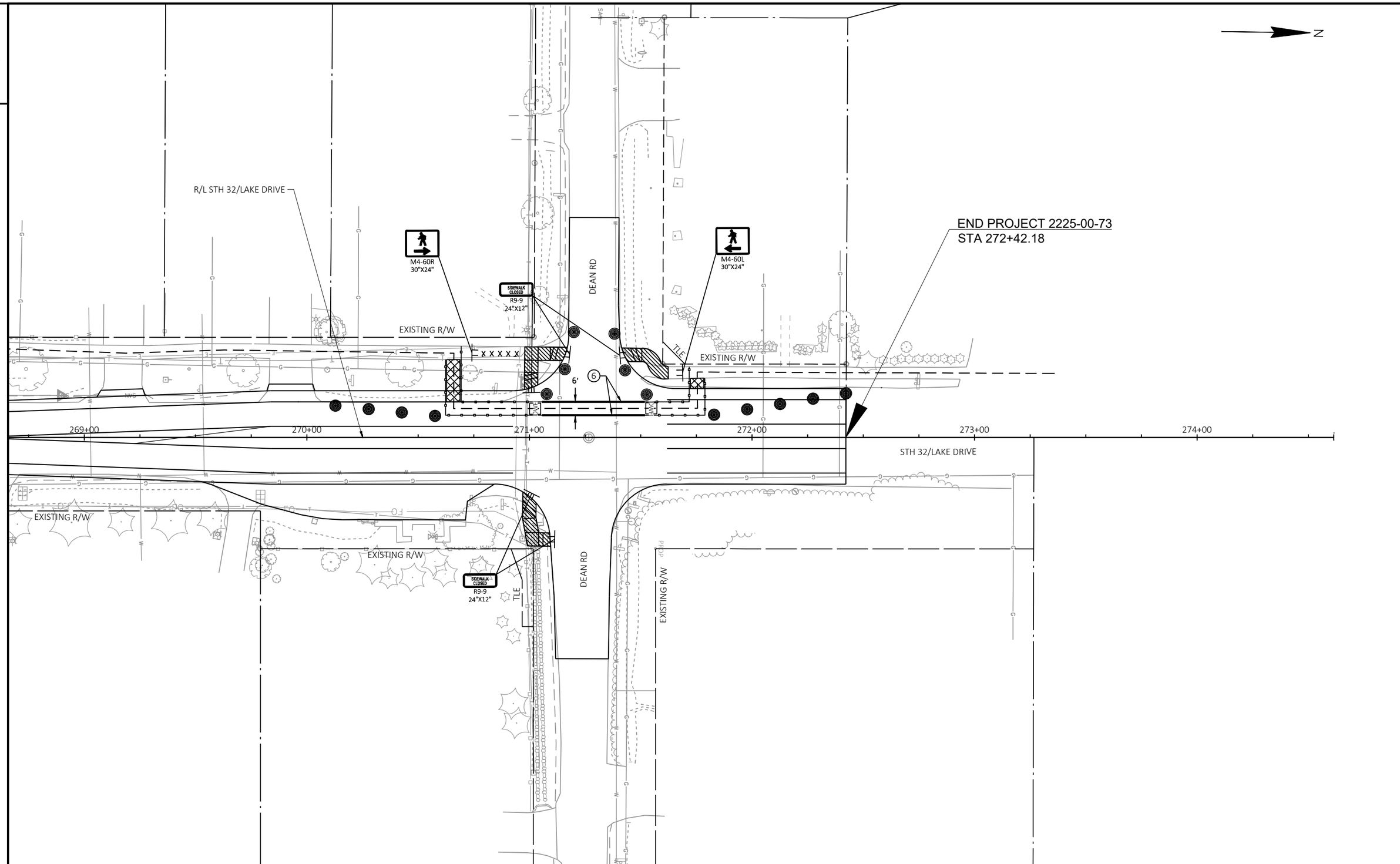
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PEDESTRIAN TRAFFIC CONTROL PLAN	SHEET 254	E



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PEDESTRIAN TRAFFIC CONTROL PLAN	SHEET 255	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\027101-DT.DWG
LAYOUT NAME - 14
PLOT DATE : 10/14/2024 3:44 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PEDESTRIAN TRAFFIC CONTROL PLAN	SHEET 256	E

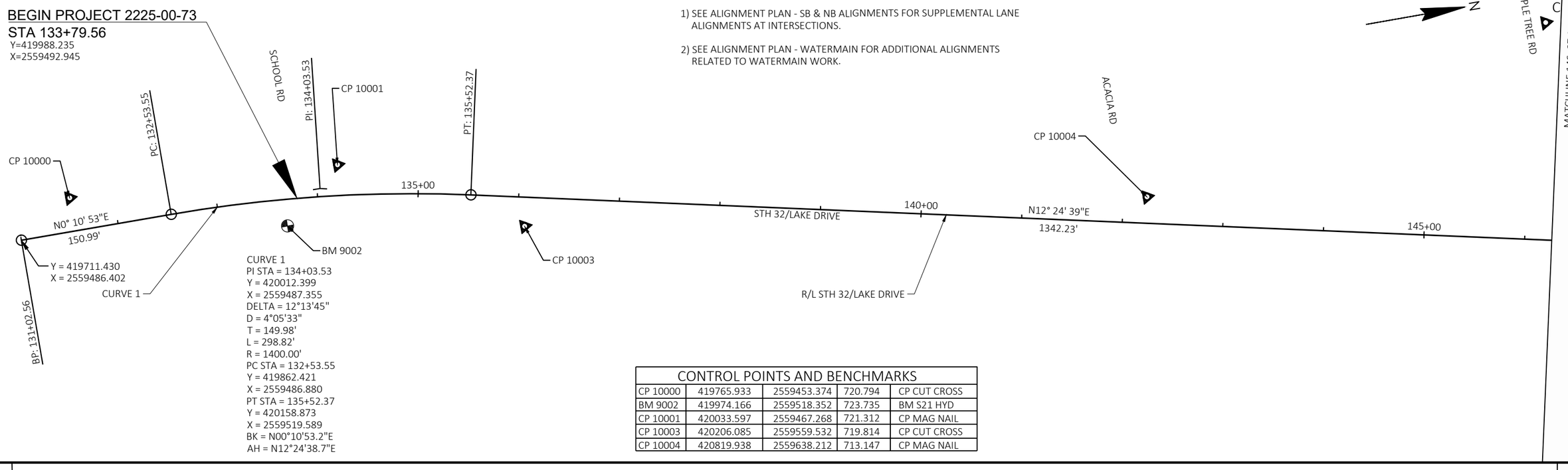
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\027101-DT.DWG
LAYOUT NAME - 15
PLOT DATE : 10/14/2024 3:44 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

NOTES:

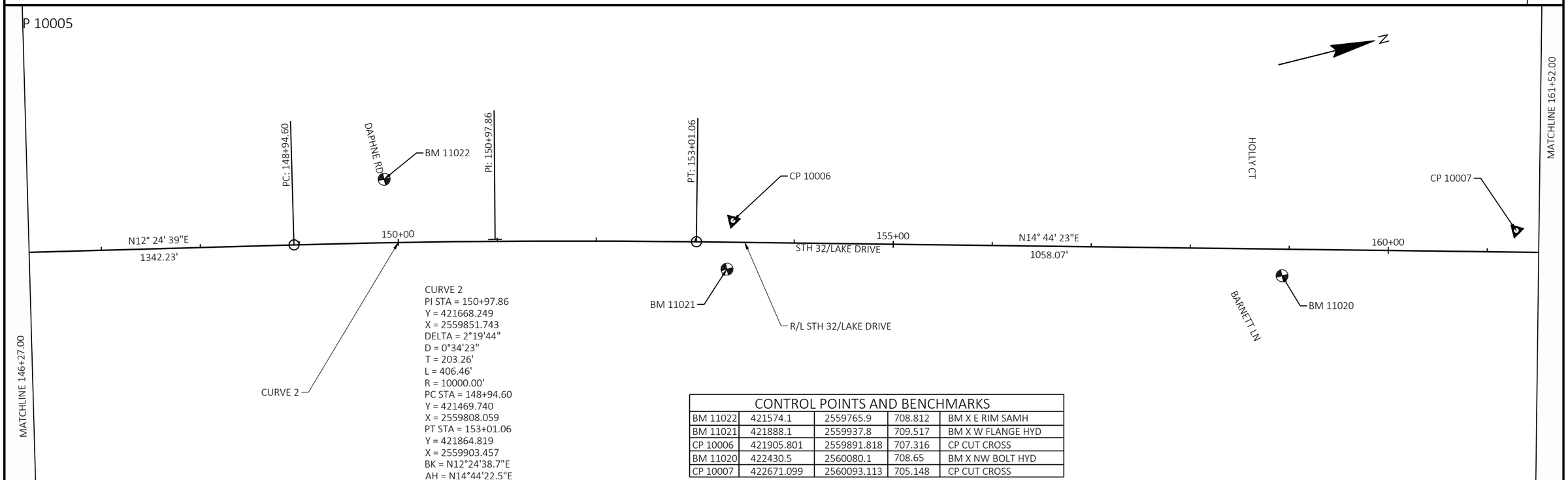
1) SEE ALIGNMENT PLAN - SB & NB ALIGNMENTS FOR SUPPLEMENTAL LANE ALIGNMENTS AT INTERSECTIONS.

2) SEE ALIGNMENT PLAN - WATERMAIN FOR ADDITIONAL ALIGNMENTS RELATED TO WATERMAIN WORK.



CONTROL POINTS AND BENCHMARKS				
CP 10000	419765.933	2559453.374	720.794	CP CUT CROSS
BM 9002	419974.166	2559518.352	723.735	BM S21 HYD
CP 10001	420033.597	2559467.268	721.312	CP MAG NAIL
CP 10003	420206.085	2559559.532	719.814	CP CUT CROSS
CP 10004	420819.938	2559638.212	713.147	CP MAG NAIL

2



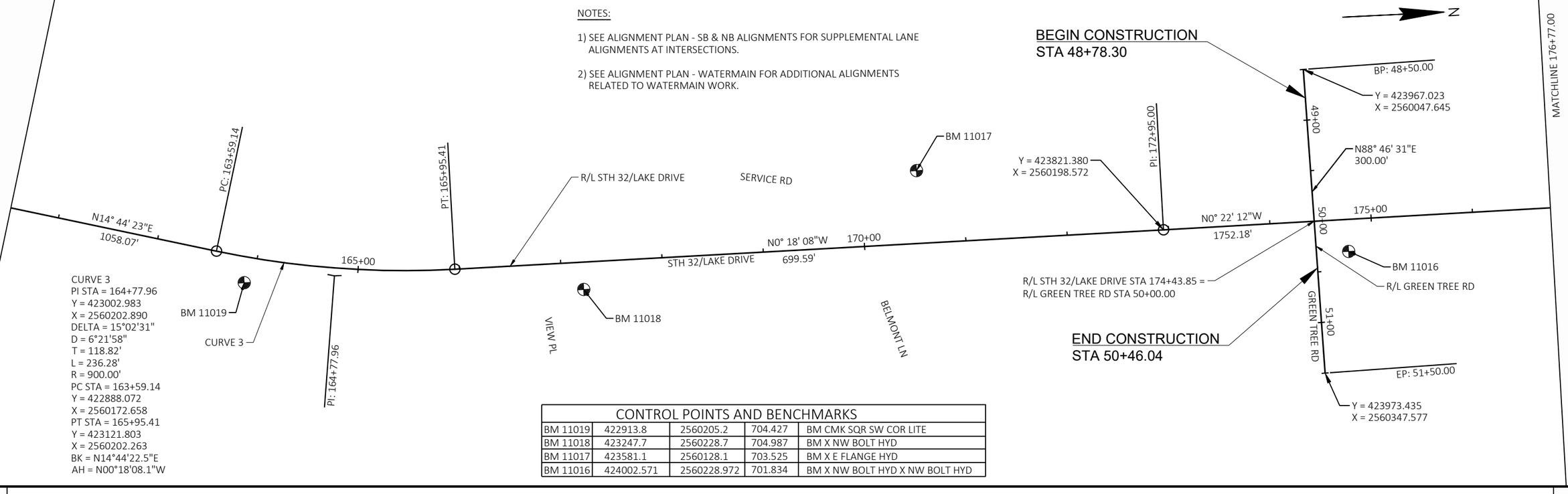
CONTROL POINTS AND BENCHMARKS				
BM 11022	421574.1	2559765.9	708.812	BM X E RIM SAMH
BM 11021	421888.1	2559937.8	709.517	BM X W FLANGE HYD
CP 10006	421905.801	2559891.818	707.316	CP CUT CROSS
BM 11020	422430.5	2560080.1	708.65	BM X NW BOLT HYD
CP 10007	422671.099	2560093.113	705.148	CP CUT CROSS

2

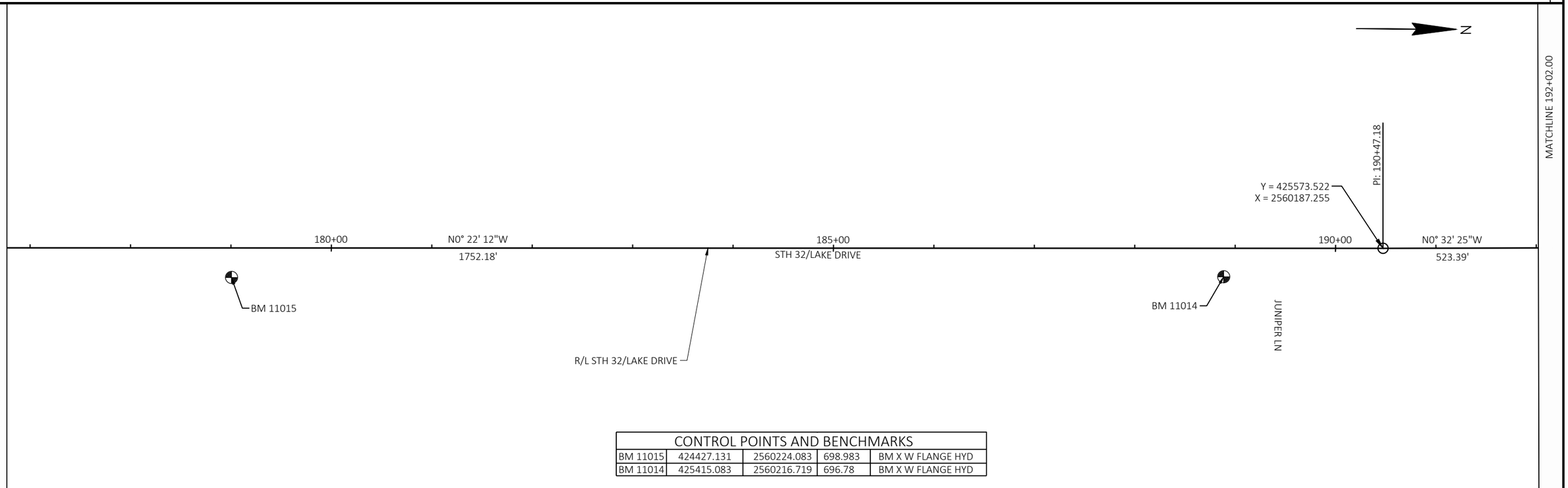
NOTES:

1) SEE ALIGNMENT PLAN - SB & NB ALIGNMENTS FOR SUPPLEMENTAL LANE ALIGNMENTS AT INTERSECTIONS.

2) SEE ALIGNMENT PLAN - WATERMAIN FOR ADDITIONAL ALIGNMENTS RELATED TO WATERMAIN WORK.



CONTROL POINTS AND BENCHMARKS				
BM 11019	422913.8	2560205.2	704.427	BM CMK SQR SW COR LITE
BM 11018	423247.7	2560228.7	704.987	BM X NW BOLT HYD
BM 11017	423581.1	2560128.1	703.525	BM X E FLANGE HYD
BM 11016	424002.571	2560228.972	701.834	BM X NW BOLT HYD X NW BOLT HYD

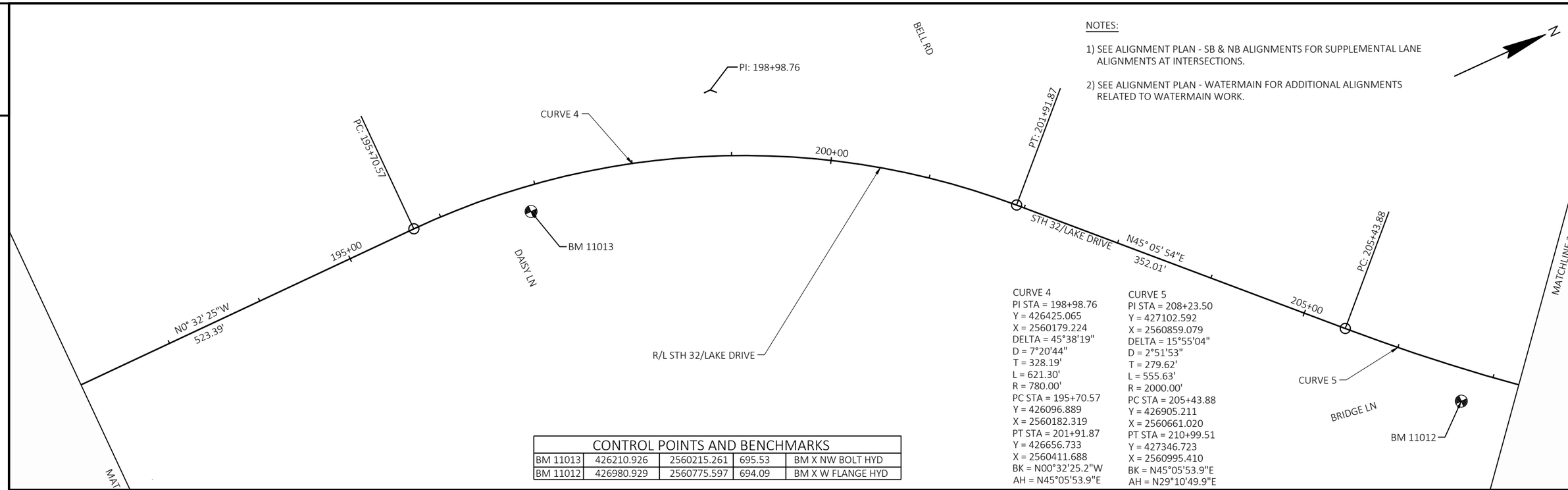


CONTROL POINTS AND BENCHMARKS				
BM 11015	424427.131	2560224.083	698.983	BM X W FLANGE HYD
BM 11014	425415.083	2560216.719	696.78	BM X W FLANGE HYD

NOTES:

1) SEE ALIGNMENT PLAN - SB & NB ALIGNMENTS FOR SUPPLEMENTAL LANE ALIGNMENTS AT INTERSECTIONS.

2) SEE ALIGNMENT PLAN - WATERMAIN FOR ADDITIONAL ALIGNMENTS RELATED TO WATERMAIN WORK.

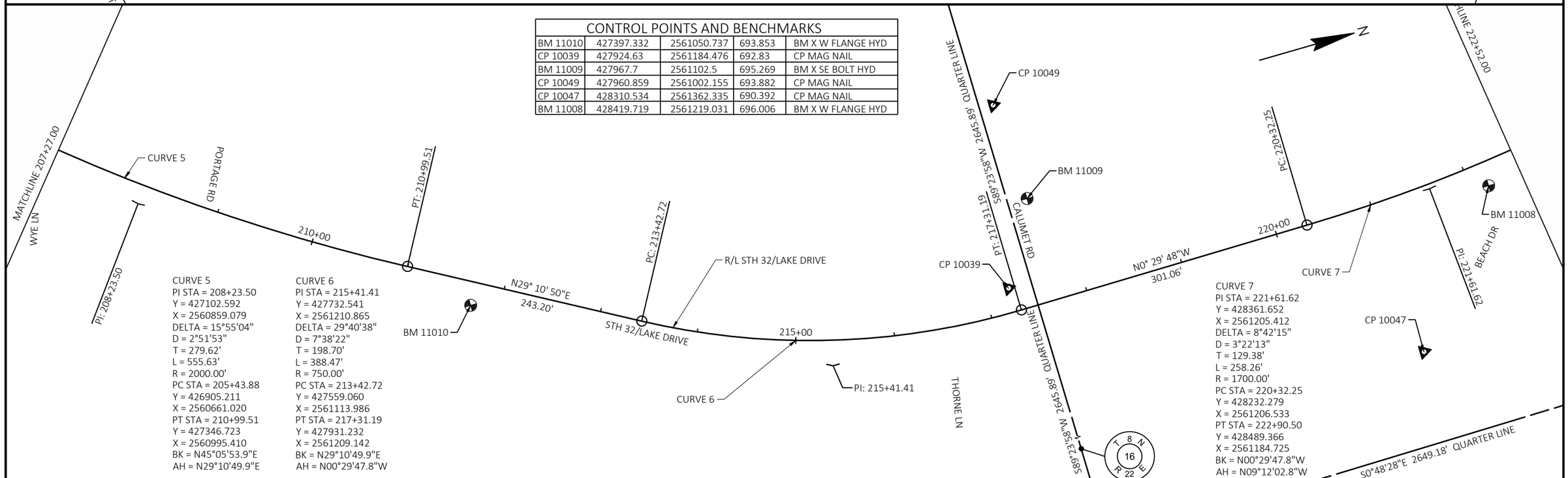


CURVE 4
PI STA = 198+98.76
Y = 426425.065
X = 2560179.224
DELTA = 45°38'19"
D = 7°20'44"
T = 328.19'
L = 621.30'
R = 780.00'
PC STA = 195+70.57
Y = 426096.889
X = 2560182.319
PT STA = 201+91.87
Y = 426656.733
X = 2560411.688
BK = N00°32'25.2"W
AH = N45°05'53.9"E

CURVE 5
PI STA = 208+23.50
Y = 427102.592
X = 2560859.079
DELTA = 15°55'04"
D = 2°51'53"
T = 279.62'
L = 555.63'
R = 2000.00'
PC STA = 205+43.88
Y = 426905.211
X = 2560661.020
PT STA = 210+99.51
Y = 427346.723
X = 2560995.410
BK = N45°05'53.9"E
AH = N29°10'49.9"E

CONTROL POINTS AND BENCHMARKS				
BM 11013	426210.926	2560215.261	695.53	BM X NW BOLT HYD
BM 11012	426980.929	2560775.597	694.09	BM X W FLANGE HYD

CONTROL POINTS AND BENCHMARKS				
BM 11010	427397.332	2561050.737	693.853	BM X W FLANGE HYD
CP 10039	427924.63	2561184.476	692.83	CP MAG NAIL
BM 11009	427967.7	2561102.5	695.269	BM X SE BOLT HYD
CP 10049	427960.859	2561002.155	693.882	CP MAG NAIL
CP 10047	428310.534	2561362.335	690.392	CP MAG NAIL
BM 11008	428419.719	2561219.031	696.006	BM X W FLANGE HYD



CURVE 5
PI STA = 208+23.50
Y = 427102.592
X = 2560859.079
DELTA = 15°55'04"
D = 2°51'53"
T = 279.62'
L = 555.63'
R = 2000.00'
PC STA = 205+43.88
Y = 426905.211
X = 2560661.020
PT STA = 210+99.51
Y = 427346.723
X = 2560995.410
BK = N45°05'53.9"E
AH = N29°10'49.9"E

CURVE 6
PI STA = 215+41.41
Y = 427732.541
X = 2561210.865
DELTA = 29°40'38"
D = 7°38'22"
T = 198.70'
L = 388.47'
R = 750.00'
PC STA = 213+42.72
Y = 427559.060
X = 2561113.986
PT STA = 217+31.19
Y = 427931.232
X = 2561209.142
BK = N29°10'49.9"E
AH = N00°29'47.8"W

CURVE 7
PI STA = 221+61.62
Y = 428361.652
X = 2561205.412
DELTA = 8°42'15"
D = 3°22'13"
T = 129.38'
L = 258.26'
R = 1700.00'
PC STA = 220+32.25
Y = 428232.279
X = 2561206.533
PT STA = 222+90.50
Y = 428489.366
X = 2561184.725
BK = N00°29'47.8"W
AH = N09°12'02.8"W

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 259	E

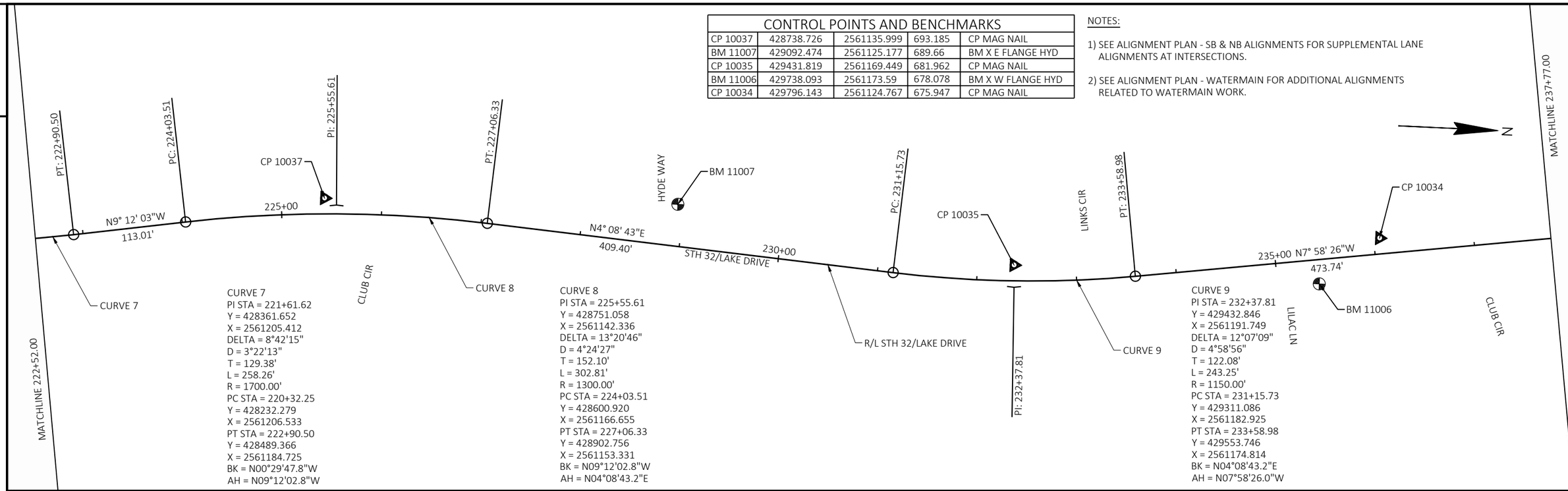
2

CONTROL POINTS AND BENCHMARKS				
CP 10037	428738.726	2561135.999	693.185	CP MAG NAIL
BM 11007	429092.474	2561125.177	689.66	BM X E FLANGE HYD
CP 10035	429431.819	2561169.449	681.962	CP MAG NAIL
BM 11006	429738.093	2561173.59	678.078	BM X W FLANGE HYD
CP 10034	429796.143	2561124.767	675.947	CP MAG NAIL

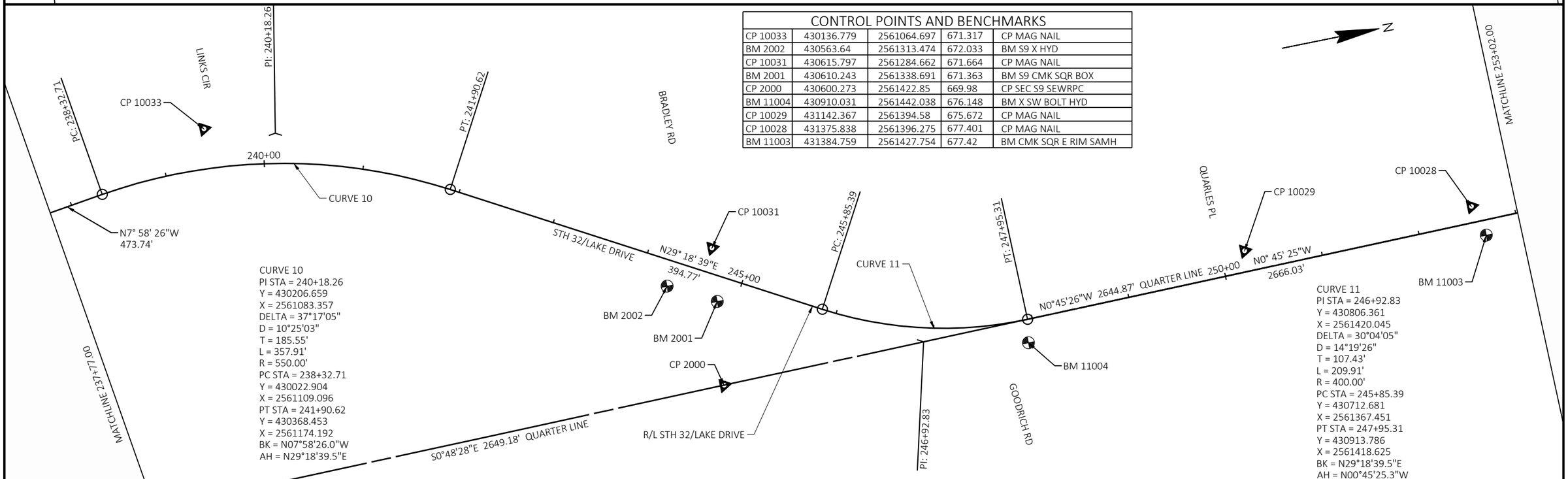
NOTES:

1) SEE ALIGNMENT PLAN - SB & NB ALIGNMENTS FOR SUPPLEMENTAL LANE ALIGNMENTS AT INTERSECTIONS.

2) SEE ALIGNMENT PLAN - WATERMAIN FOR ADDITIONAL ALIGNMENTS RELATED TO WATERMAIN WORK.



CONTROL POINTS AND BENCHMARKS				
CP 10033	430136.779	2561064.697	671.317	CP MAG NAIL
BM 2002	430563.64	2561313.474	672.033	BM S9 X HYD
CP 10031	430615.797	2561284.662	671.664	CP MAG NAIL
BM 2001	430610.243	2561338.691	671.363	BM S9 CMK SQR BOX
CP 2000	430600.273	2561422.85	669.98	CP SEC S9 SEWRPC
BM 11004	430910.031	2561442.038	676.148	BM X SW BOLT HYD
CP 10029	431142.367	2561394.58	675.672	CP MAG NAIL
CP 10028	431375.838	2561396.275	677.401	CP MAG NAIL
BM 11003	431384.759	2561427.754	677.42	BM CMK SQR E RIM SAMH



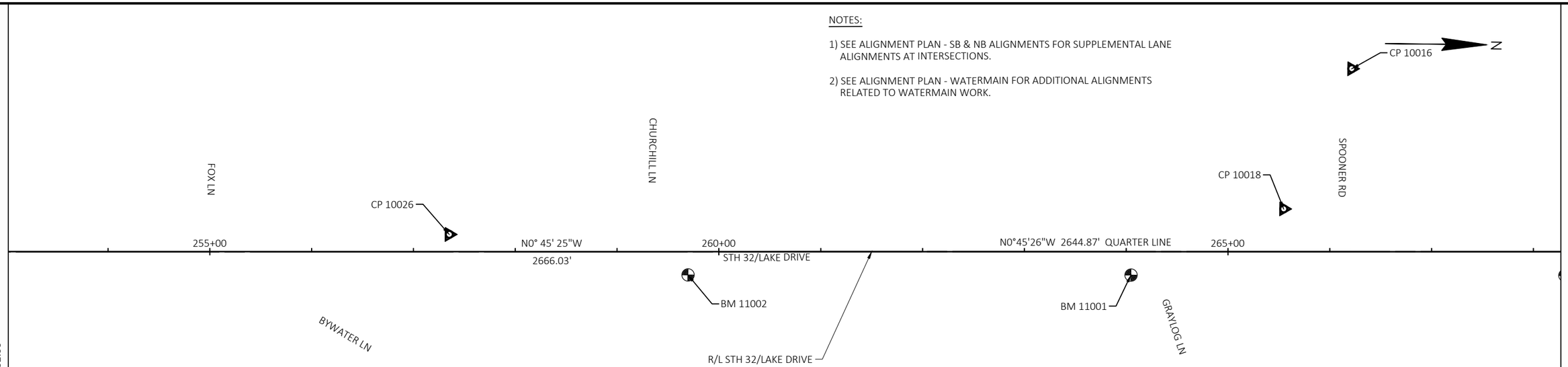
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 260	E

2

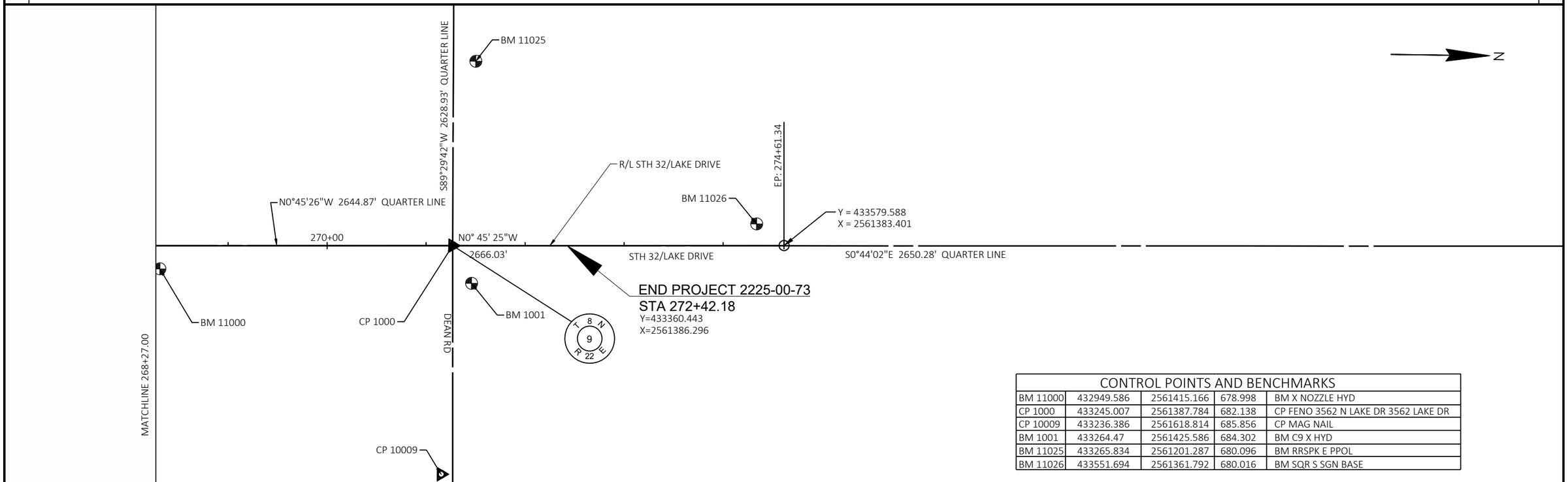
NOTES:

1) SEE ALIGNMENT PLAN - SB & NB ALIGNMENTS FOR SUPPLEMENTAL LANE ALIGNMENTS AT INTERSECTIONS.

2) SEE ALIGNMENT PLAN - WATERMAIN FOR ADDITIONAL ALIGNMENTS RELATED TO WATERMAIN WORK.



CONTROL POINTS AND BENCHMARKS				
CP 10026	431853.211	2561389.324	677.062	CP MAG NAIL
BM 11002	432088.221	2561425.996	675.026	BM X W BOLT HYD
BM 11001	432523.323	2561420.412	674.383	BM X W BOLT HYD
CP 10018	432672.549	2561353.421	672.851	CP MAG NAIL
CP 10016	432737.543	2561215.006	670.506	CP MAG NAIL

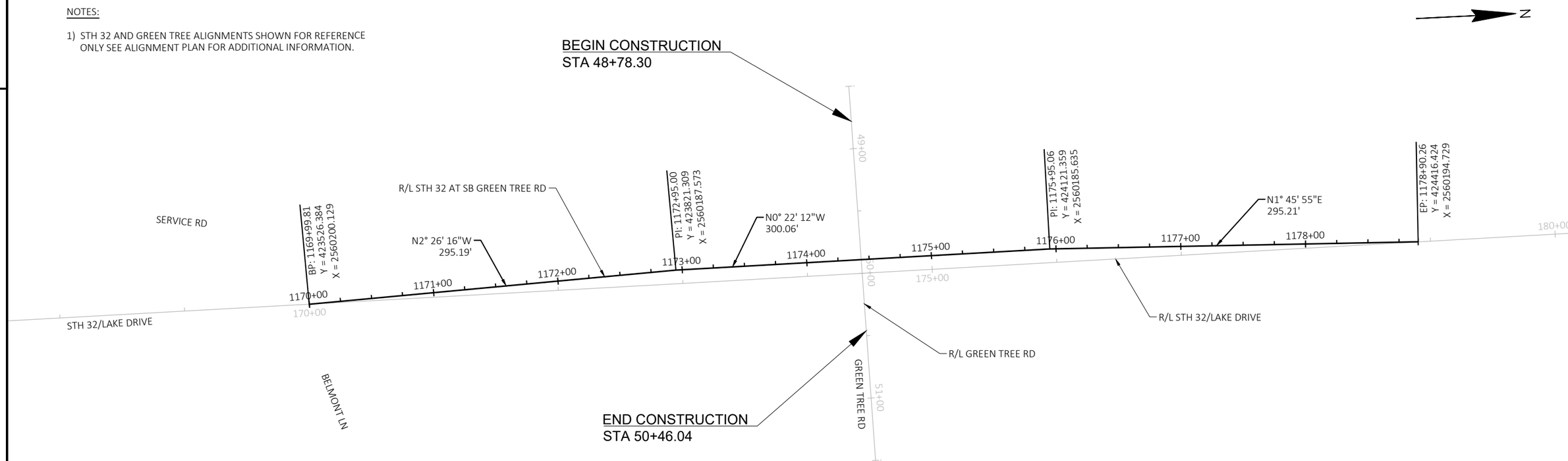


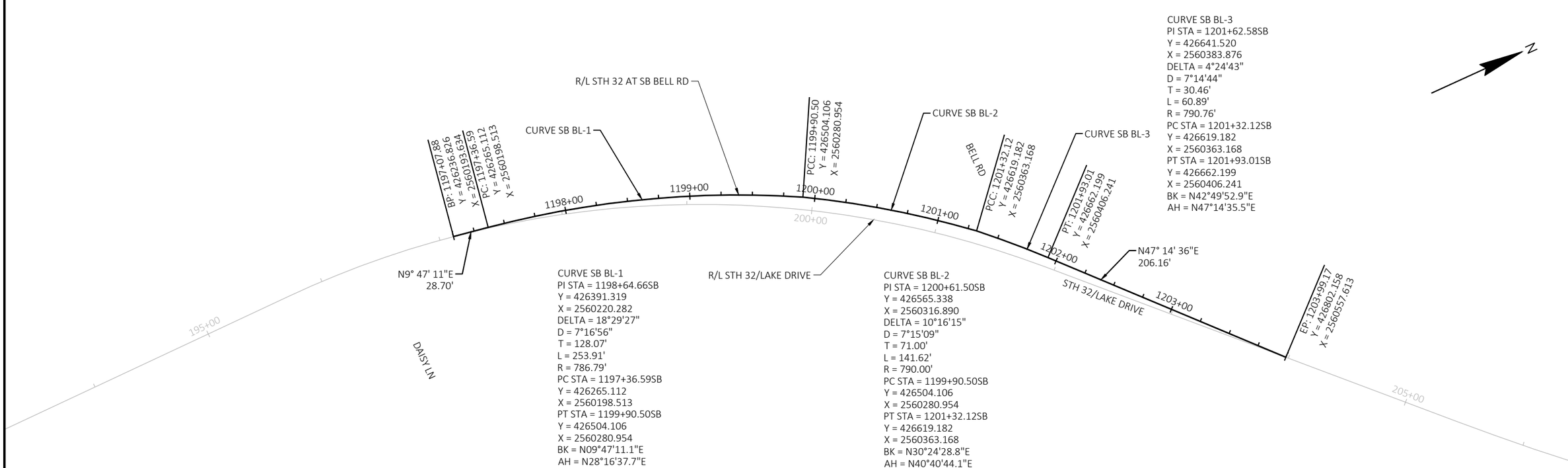
CONTROL POINTS AND BENCHMARKS				
BM 11000	432949.586	2561415.166	678.998	BM X NOZZLE HYD
CP 1000	433245.007	2561387.784	682.138	CP FENO 3562 N LAKE DR 3562 LAKE DR
CP 10009	433236.386	2561618.814	685.856	CP MAG NAIL
BM 1001	433264.47	2561425.586	684.302	BM C9 X HYD
BM 11025	433265.834	2561201.287	680.096	BM RRSPK E PPOL
BM 11026	433551.694	2561361.792	680.016	BM SQR S SGN BASE

2

NOTES:

1) STH 32 AND GREEN TREE ALIGNMENTS SHOWN FOR REFERENCE ONLY SEE ALIGNMENT PLAN FOR ADDITIONAL INFORMATION.





CURVE SB BL-3
PI STA = 1201+62.58SB
Y = 426641.520
X = 2560383.876
DELTA = 4°24'43"
D = 7°14'44"
T = 30.46'
L = 60.89'
R = 790.76'
PC STA = 1201+32.12SB
Y = 426619.182
X = 2560363.168
PT STA = 1201+93.01SB
Y = 426662.199
X = 2560406.241
BK = N42°49'52.9"E
AH = N47°14'35.5"E

CURVE SB BL-1
PI STA = 1198+64.66SB
Y = 426391.319
X = 2560220.282
DELTA = 18°29'27"
D = 7°16'56"
T = 128.07'
L = 253.91'
R = 786.79'
PC STA = 1197+36.59SB
Y = 426265.112
X = 2560198.513
PT STA = 1199+90.50SB
Y = 426504.106
X = 2560280.954
BK = N09°47'11.1"E
AH = N28°16'37.7"E

CURVE SB BL-2
PI STA = 1200+61.50SB
Y = 426565.338
X = 2560316.890
DELTA = 10°16'15"
D = 7°15'09"
T = 71.00'
L = 141.62'
R = 790.00'
PC STA = 1199+90.50SB
Y = 426504.106
X = 2560280.954
PT STA = 1201+32.12SB
Y = 426619.182
X = 2560363.168
BK = N30°24'28.8"E
AH = N40°40'44.1"E

2

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	ALIGNMENT PLAN - SB & NB ALIGNMENTS	SHEET 262	E

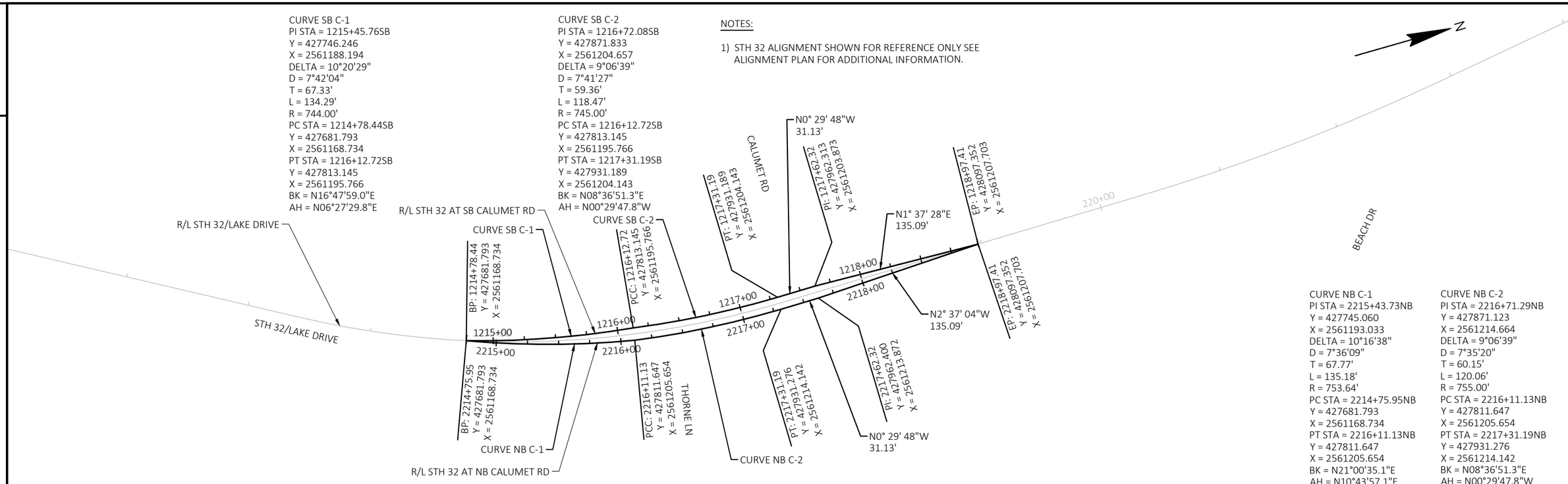
2

CURVE SB C-1
PI STA = 1215+45.76SB
Y = 427746.246
X = 2561188.194
DELTA = 10°20'29"
D = 7°42'04"
T = 67.33'
L = 134.29'
R = 744.00'
PC STA = 1214+78.44SB
Y = 427681.793
X = 2561168.734
PT STA = 1216+12.72SB
Y = 427813.145
X = 2561195.766
BK = N16°47'59.0"E
AH = N06°27'29.8"E

CURVE SB C-2
PI STA = 1216+72.08SB
Y = 427871.833
X = 2561204.657
DELTA = 9°06'39"
D = 7°41'27"
T = 59.36'
L = 118.47'
R = 745.00'
PC STA = 1216+12.72SB
Y = 427813.145
X = 2561195.766
PT STA = 1217+31.19SB
Y = 427931.189
X = 2561204.143
BK = N08°36'51.3"E
AH = N00°29'47.8"W

NOTES:

1) STH 32 ALIGNMENT SHOWN FOR REFERENCE ONLY SEE ALIGNMENT PLAN FOR ADDITIONAL INFORMATION.

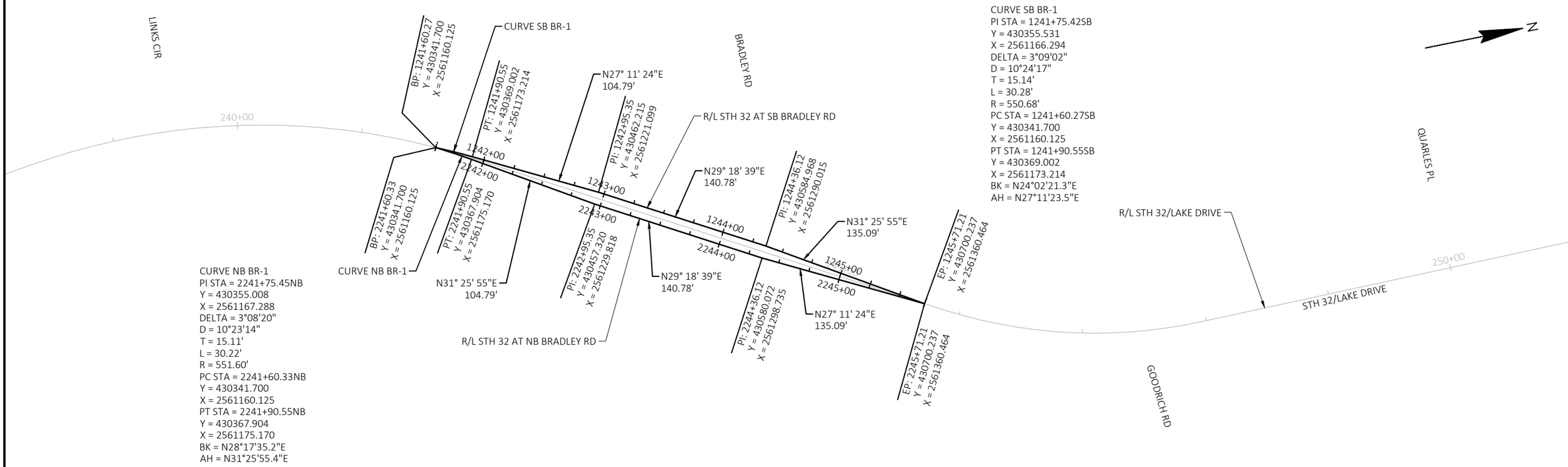


CURVE NB C-1
PI STA = 2215+43.73NB
Y = 427745.060
X = 2561193.033
DELTA = 10°16'38"
D = 7°36'09"
T = 67.77'
L = 135.18'
R = 753.64'
PC STA = 2214+75.95NB
Y = 427681.793
X = 2561168.734
PT STA = 2216+11.13NB
Y = 427811.647
X = 2561205.654
BK = N21°00'35.1"E
AH = N10°43'57.1"E

CURVE NB C-2
PI STA = 2216+71.29NB
Y = 427871.123
X = 2561214.664
DELTA = 9°06'39"
D = 7°35'20"
T = 60.15'
L = 120.06'
R = 755.00'
PC STA = 2216+11.13NB
Y = 427811.647
X = 2561205.654
PT STA = 2217+31.19NB
Y = 427931.276
X = 2561214.142
BK = N08°36'51.3"E
AH = N00°29'47.8"W

2

CURVE SB BR-1
PI STA = 1241+75.42SB
Y = 430355.531
X = 2561166.294
DELTA = 3°09'02"
D = 10°24'17"
T = 15.14'
L = 30.28'
R = 550.68'
PC STA = 1241+60.27SB
Y = 430341.700
X = 2561160.125
PT STA = 1241+90.55SB
Y = 430369.002
X = 2561173.214
BK = N24°02'21.3"E
AH = N27°11'23.5"E

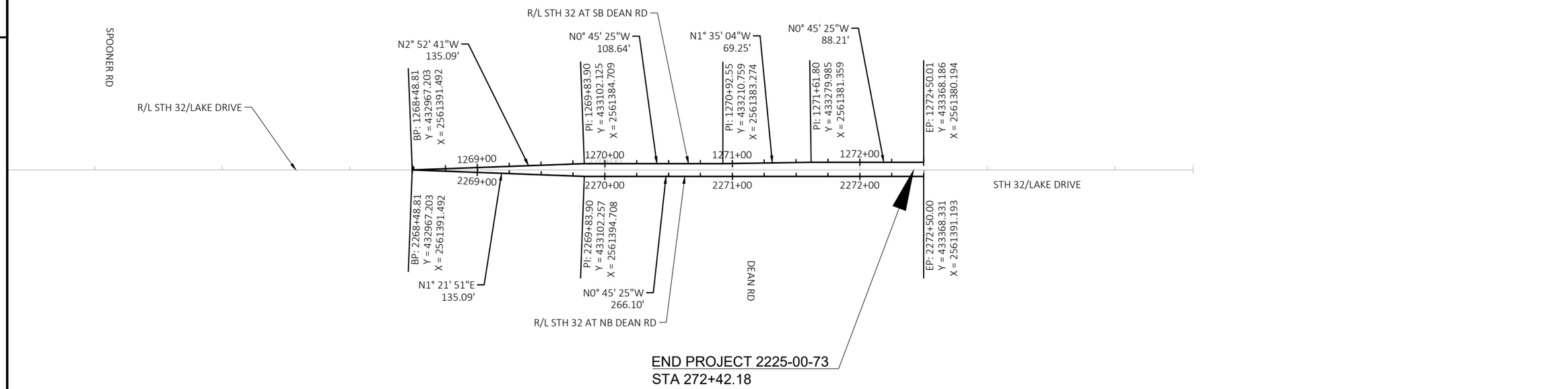


CURVE NB BR-1
PI STA = 2241+75.45NB
Y = 430355.008
X = 2561167.288
DELTA = 3°08'20"
D = 10°23'14"
T = 15.11'
L = 30.22'
R = 551.60'
PC STA = 2241+60.33NB
Y = 430341.700
X = 2561160.125
PT STA = 2241+90.55NB
Y = 430367.904
X = 2561175.170
BK = N28°17'35.2"E
AH = N31°25'55.4"E

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	ALIGNMENT PLAN - SB & NB ALIGNMENTS	SHEET 263	E

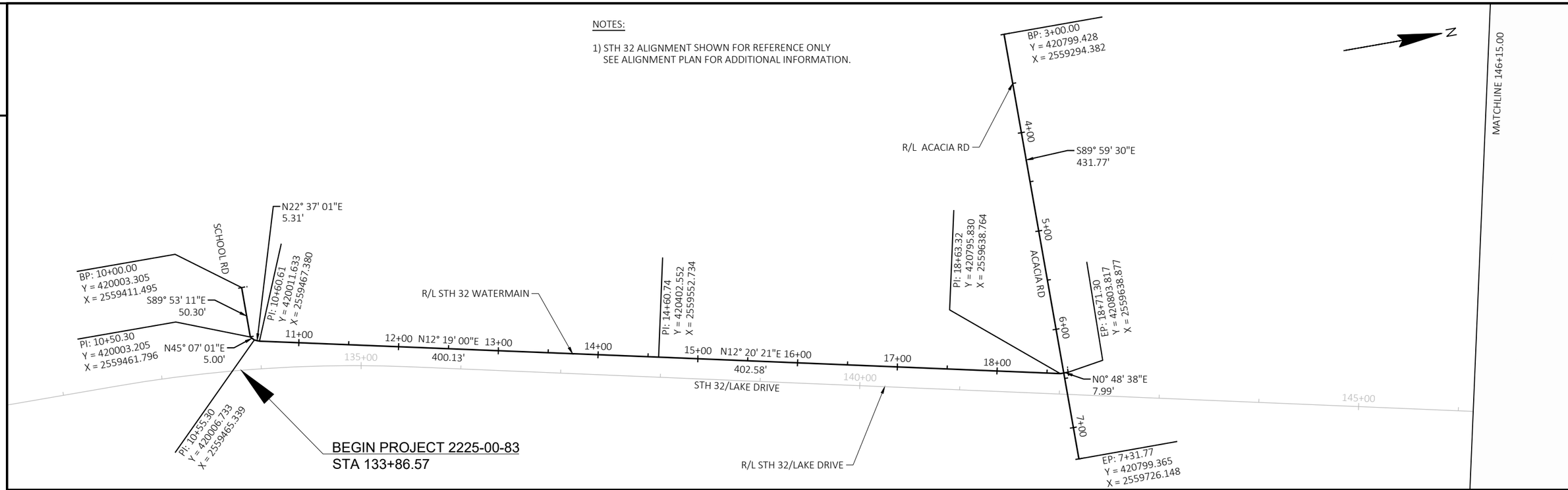
NOTES:

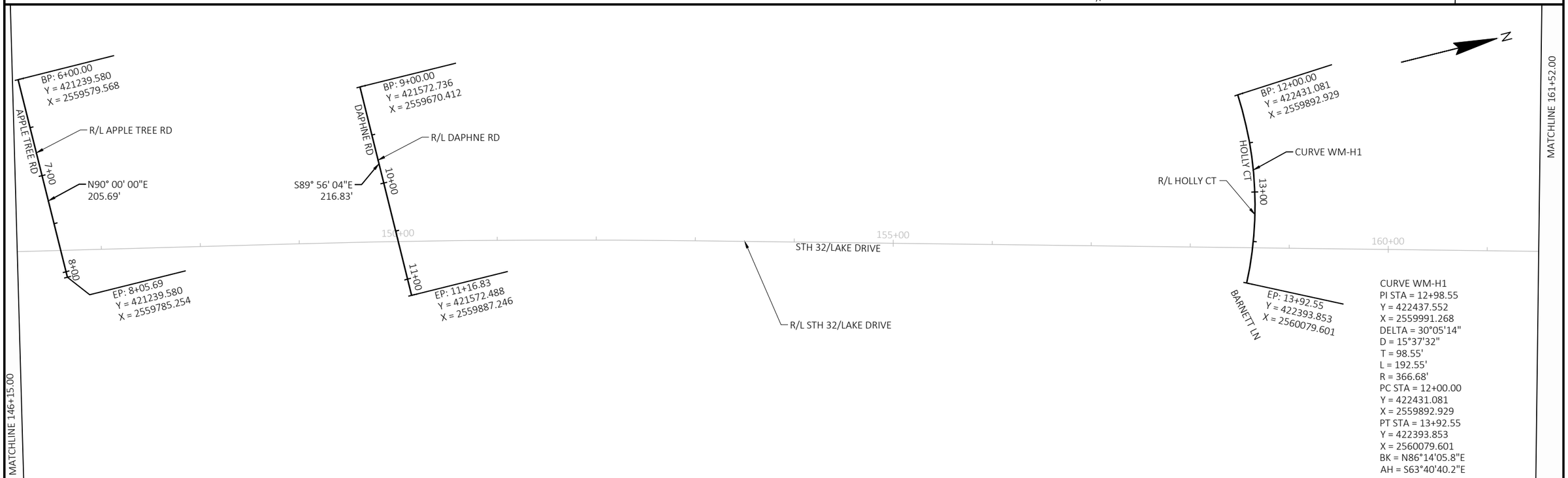
1) STH 32 ALIGNMENT SHOWN FOR REFERENCE ONLY SEE ALIGNMENT PLAN FOR ADDITIONAL INFORMATION.



NOTES:

1) STH 32 ALIGNMENT SHOWN FOR REFERENCE ONLY
SEE ALIGNMENT PLAN FOR ADDITIONAL INFORMATION.



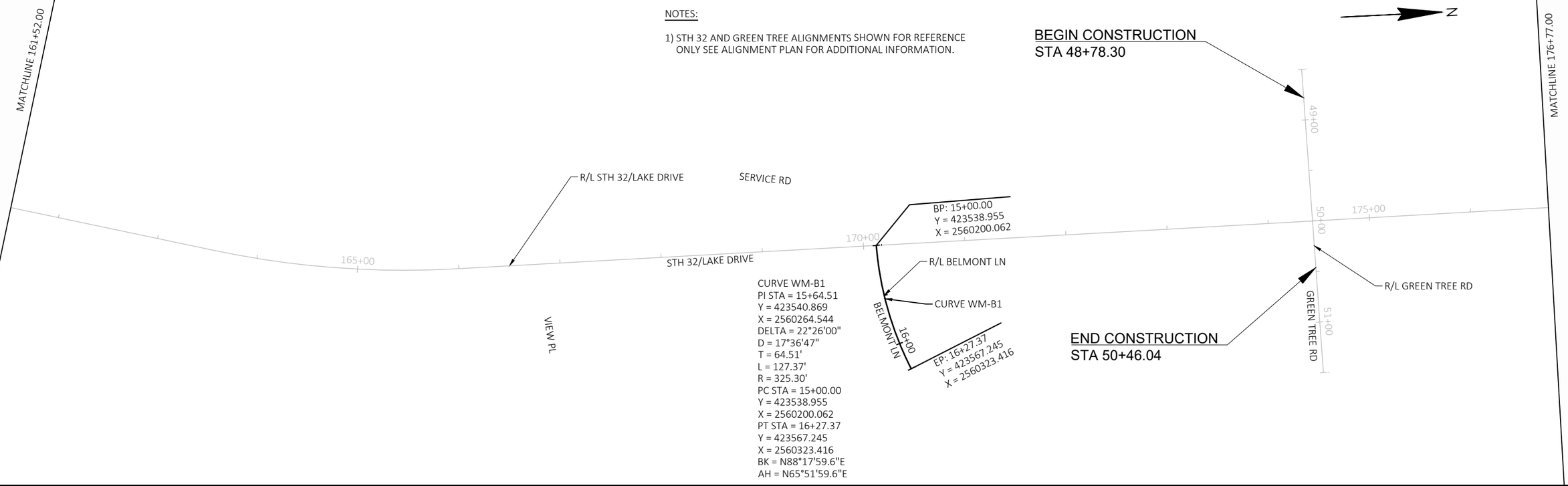


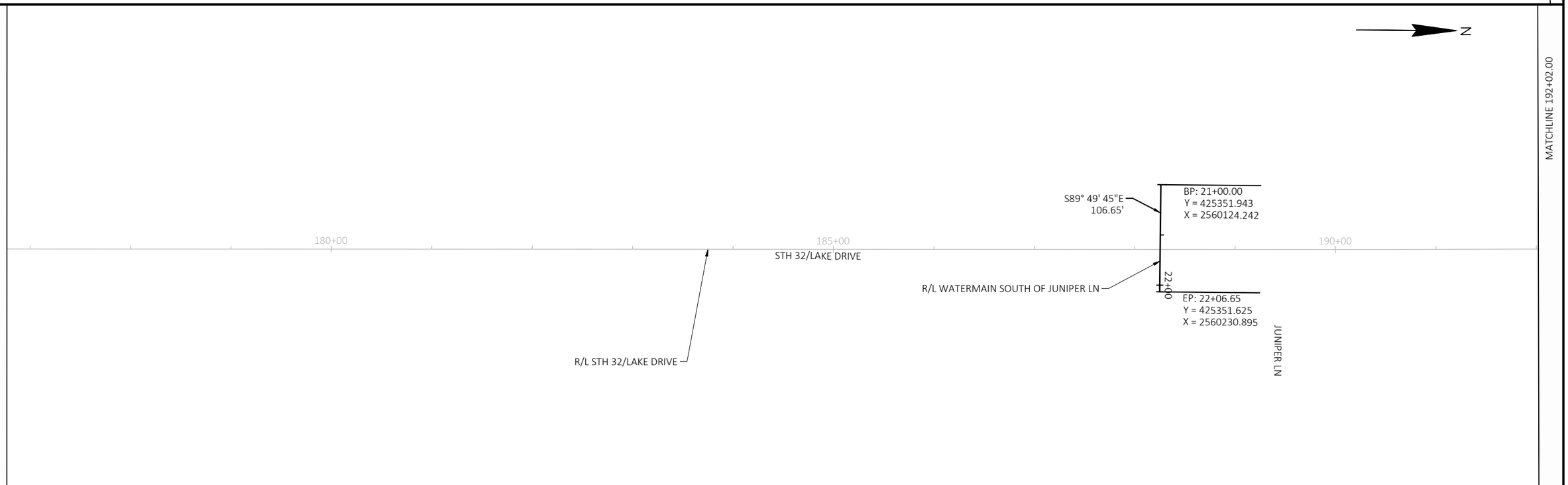
CURVE WM-H1
PI STA = 12+98.55
Y = 422437.552
X = 2559991.268
DELTA = 30°05'14"
D = 15°37'32"
T = 98.55'
L = 192.55'
R = 366.68'
PC STA = 12+00.00
Y = 422431.081
X = 2559892.929
PT STA = 13+92.55
Y = 422393.853
X = 2560079.601
BK = N86°14'05.8"E
AH = S63°40'40.2"E

2

NOTES:

1) STH 32 AND GREEN TREE ALIGNMENTS SHOWN FOR REFERENCE ONLY SEE ALIGNMENT PLAN FOR ADDITIONAL INFORMATION.



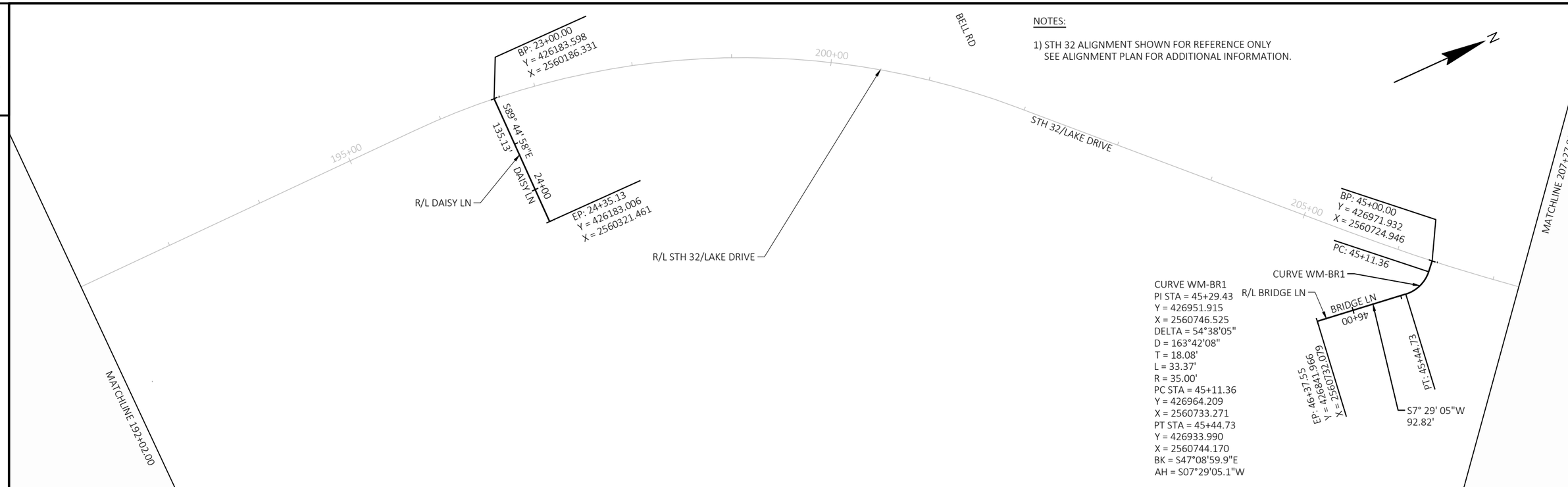


PROJECT NO: 2225-00-83	HWY: STH 32	COUNTY: MILWAUKEE	ALIGNMENT PLAN - WATERMAIN	SHEET 266	E

2

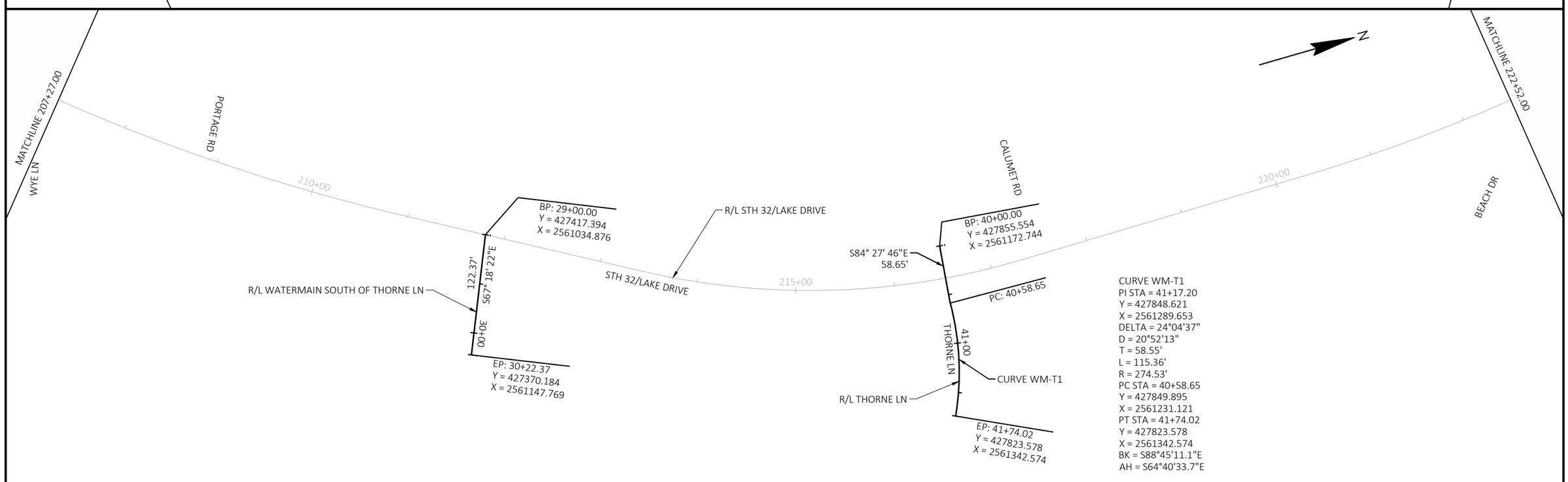
NOTES:

1) STH 32 ALIGNMENT SHOWN FOR REFERENCE ONLY
SEE ALIGNMENT PLAN FOR ADDITIONAL INFORMATION.



CURVE WM-BR1
PI STA = 45+29.43
Y = 426951.915
X = 2560746.525
DELTA = 54°38'05"
D = 163°42'08"
T = 18.08'
L = 33.37'
R = 35.00'
PC STA = 45+11.36
Y = 426964.209
X = 2560733.271
PT STA = 45+44.73
Y = 426933.990
X = 2560744.170
BK = S47°08'59.9"E
AH = S07°29'05.1"W

2

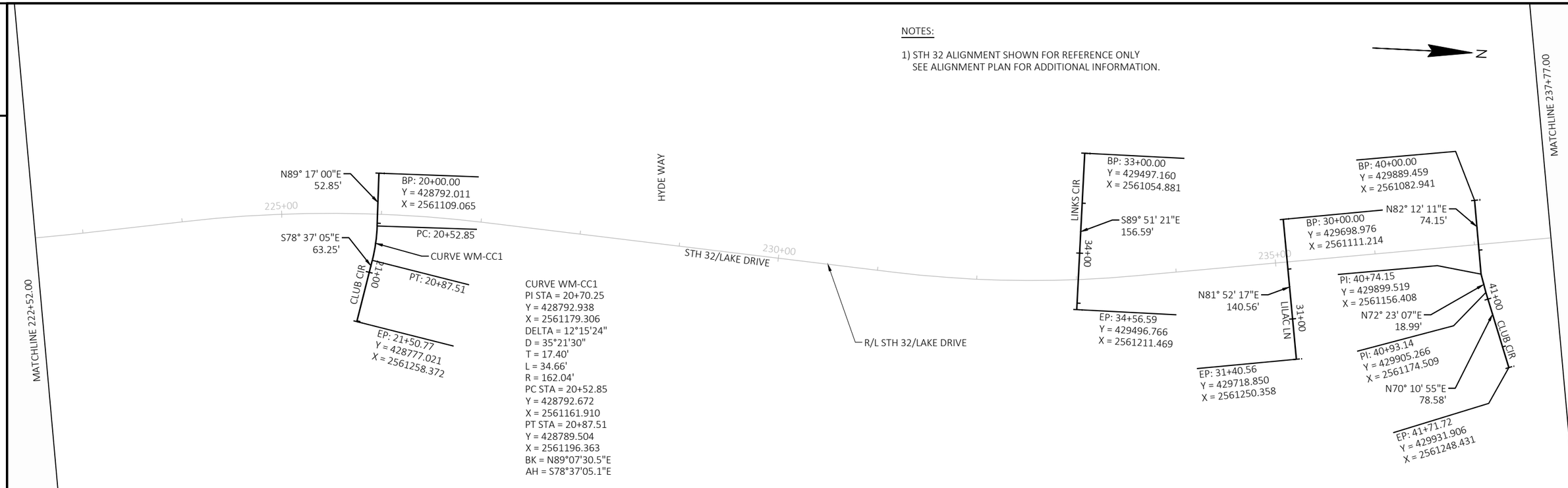


CURVE WM-T1
PI STA = 41+17.20
Y = 427848.621
X = 2561289.653
DELTA = 24°04'37"
D = 20°52'13"
T = 58.55'
L = 115.36'
R = 274.53'
PC STA = 40+58.65
Y = 427849.895
X = 2561231.121
PT STA = 41+74.02
Y = 427823.578
X = 2561342.574
BK = S88°45'11.1"E
AH = S64°40'33.7"E

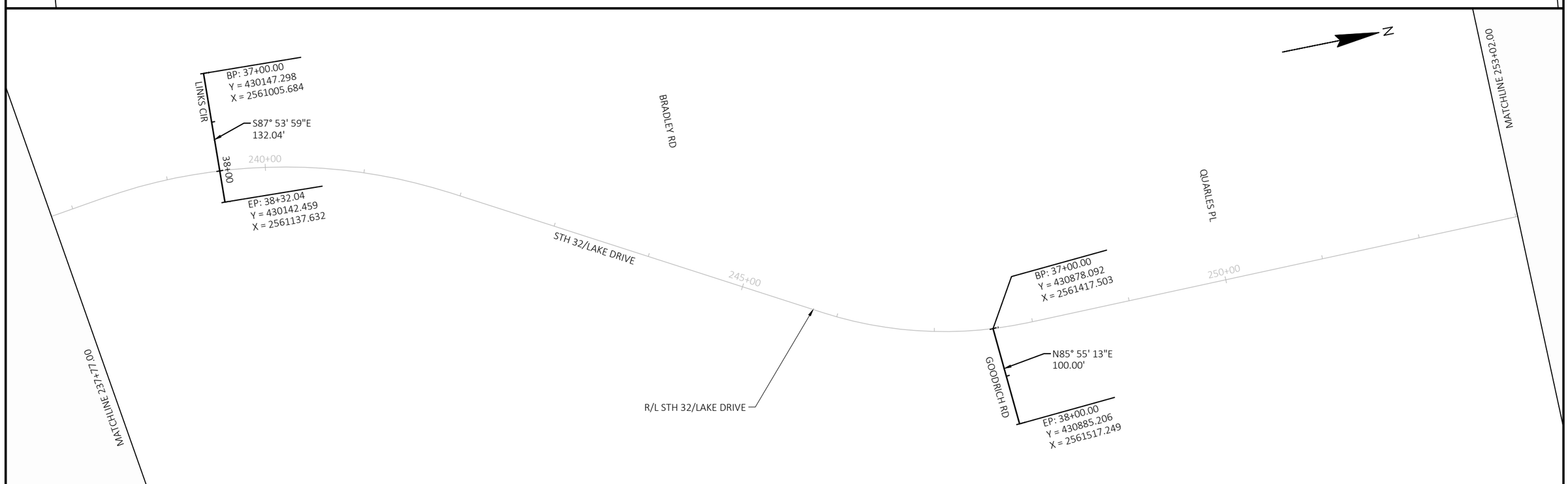
PROJECT NO: 2225-00-83	HWY: STH 32	COUNTY: MILWAUKEE	ALIGNMENT PLAN - WATERMAIN	SHEET 267	E

NOTES:

1) STH 32 ALIGNMENT SHOWN FOR REFERENCE ONLY
SEE ALIGNMENT PLAN FOR ADDITIONAL INFORMATION.



CURVE WM-CC1
PI STA = 20+70.25
Y = 428792.938
X = 2561179.306
DELTA = 12°15'24"
D = 35°21'30"
T = 17.40'
L = 34.66'
R = 162.04'
PC STA = 20+52.85
Y = 428792.672
X = 2561161.910
PT STA = 20+87.51
Y = 428789.504
X = 2561196.363
BK = N89°07'30.5"E
AH = S78°37'05.1"E

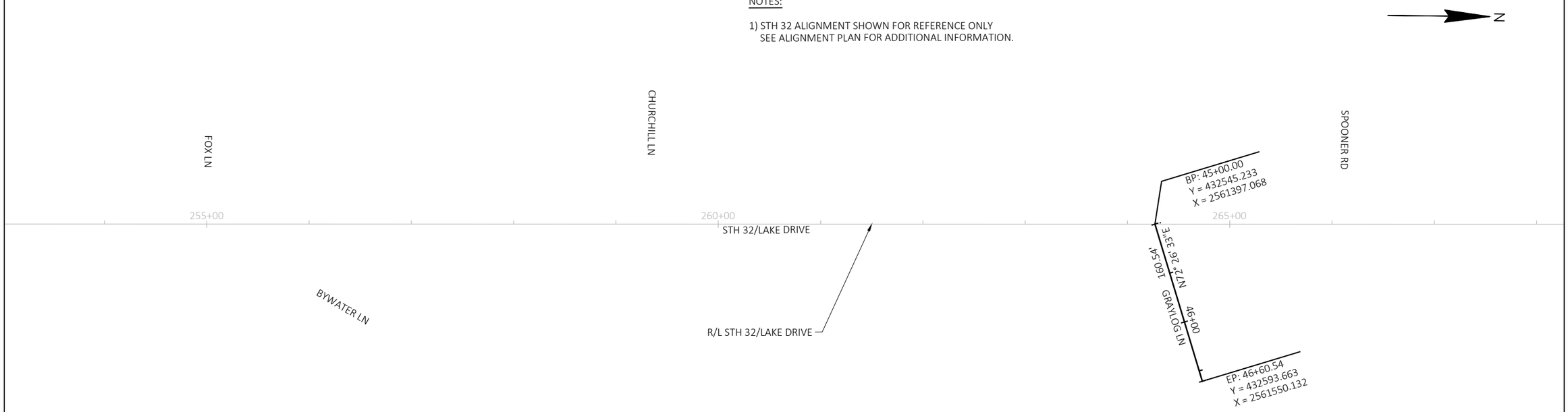


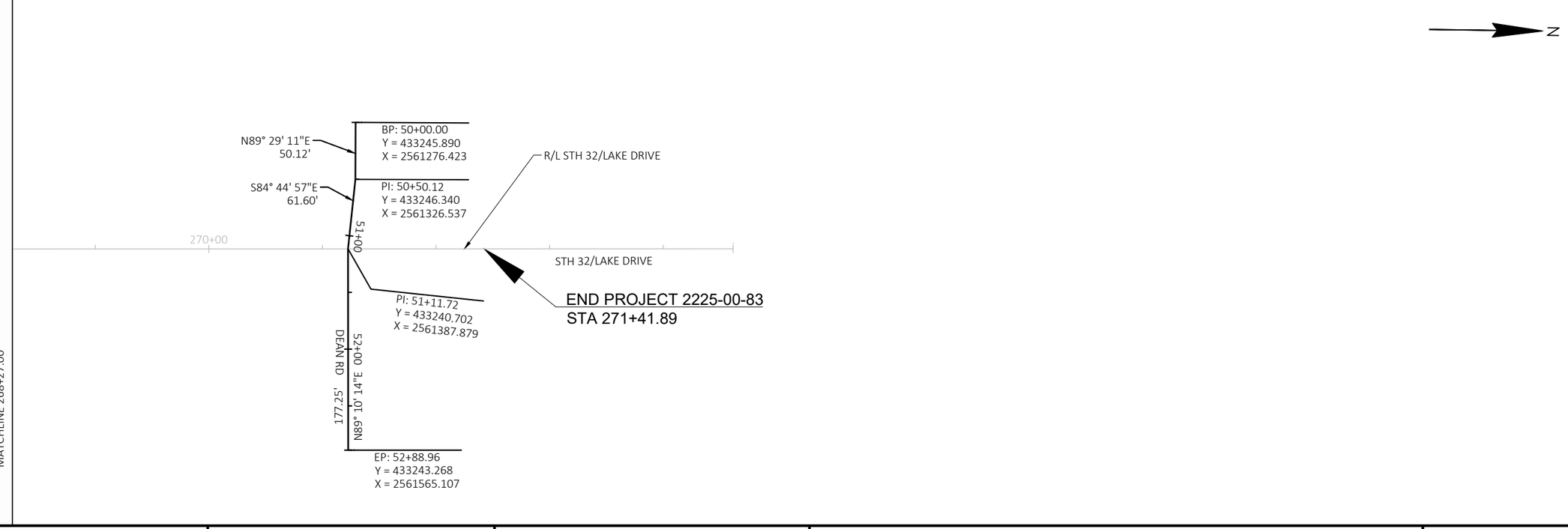
PROJECT NO: 2225-00-83	HWY: STH 32	COUNTY: MILWAUKEE	ALIGNMENT PLAN - WATERMAIN	SHEET 268	E

2

NOTES:

1) STH 32 ALIGNMENT SHOWN FOR REFERENCE ONLY
SEE ALIGNMENT PLAN FOR ADDITIONAL INFORMATION.





PROJECT NO: 2225-00-83	HWY: STH 32	COUNTY: MILWAUKEE	ALIGNMENT PLAN - WATERMAIN	SHEET 269	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\027205-AD.DWG
LAYOUT NAME - AD-(5)
PLOT DATE : 10/14/2024 3:45 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	2225-00-73 Qty	2225-00-74 Qty	2225-00-83 Qty
0002	201.0205	Grubbing	STA	9.000	9.000		
0004	201.0220	Grubbing	ID	28.000	28.000		
0006	203.0100	Removing Small Pipe Culverts	EACH	5.000	5.000		
0008	204.0100	Removing Concrete Pavement	SY	10,855.000	10,855.000		
0010	204.0115	Removing Asphaltic Surface Butt Joints	SY	653.000	653.000		
0012	204.0120	Removing Asphaltic Surface Milling	SY	49,578.000	49,578.000		
0014	204.0150	Removing Curb & Gutter	LF	4.000	4.000		
0016	204.0155	Removing Concrete Sidewalk	SY	102.000	102.000		
0018	204.0185	Removing Masonry	CY	86.000	86.000		
0020	204.0195	Removing Concrete Bases	EACH	1.000	1.000		
0022	204.0210	Removing Manholes	EACH	5.000	5.000		
0024	204.0220	Removing Inlets	EACH	18.000	18.000		
0026	204.0245	Removing Storm Sewer (size) 01. 10-Inch	LF	167.000	167.000		
0028	204.0245	Removing Storm Sewer (size) 02. 12-Inch	LF	664.000	664.000		
0030	204.0245	Removing Storm Sewer (size) 03. 15-Inch	LF	74.000	74.000		
0032	204.0245	Removing Storm Sewer (size) 04. 18-Inch	LF	128.000	128.000		
0034	204.0245	Removing Storm Sewer (size) 05. 21-Inch	LF	147.000	147.000		
0036	204.0245	Removing Storm Sewer (size) 06. 24-Inch	LF	83.000	83.000		
0038	204.0245	Removing Storm Sewer (size) 07. 30-Inch	LF	45.000	45.000		
0040	204.9060.S	Removing (item description) 01. Removing Decorative Headwalls	EACH	18.000	18.000		
0042	205.0100	Excavation Common	CY	2,459.000	2,459.000		
0044	209.1100	Backfill Granular Grade 1	CY	170.000	170.000		
0046	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 2225-00-73	EACH	1.000	1.000		
0048	213.0100	Finishing Roadway (project) 01. 2225-00-73	EACH	1.000	1.000		
0050	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,002.000	2,002.000		
0052	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,002.000	921.000	81.000	
0054	305.0500	Shaping Shoulders	STA	277.000	277.000		
0056	310.0110	Base Aggregate Open-Graded	TON	915.000	915.000		
0058	311.0110	Breaker Run	TON	2,070.000	2,070.000		
0060	455.0605	Tack Coat	GAL	9,014.000	9,014.000		
0062	460.2000	Incentive Density HMA Pavement	DOL	14,919.000	14,919.000		
0064	460.5223	HMA Pavement 3 LT 58-28 S	TON	8,441.000	8,441.000		
0066	460.5224	HMA Pavement 4 LT 58-28 S	TON	5,855.000	5,855.000		
0068	465.0105	Asphaltic Surface	TON	73.000	73.000		
0070	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	119.000	119.000		
0072	520.8000	Concrete Collars for Pipe	EACH	31.000	31.000		
0074	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000		
0076	522.2629	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	1.000	1.000		
0078	601.0110	Concrete Curb Type D	LF	76.000		76.000	
0080	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	176.000	150.000	26.000	
0082	602.0410	Concrete Sidewalk 5-Inch	SF	5,749.000	3,345.000	2,404.000	
0084	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	468.000	360.000	108.000	
0086	602.0615	Curb Ramp Detectable Warning Field Radial Natural Patina	SF	301.000	174.000	127.000	
0088	606.0200	Riprap Medium	CY	6.000	6.000		
0090	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	753.000	753.000		
0092	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	468.000	468.000		
0094	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	72.000	72.000		
0096	608.0321	Storm Sewer Pipe Reinforced Concrete Class III 21-Inch	LF	148.000	148.000		
0098	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	17.000	17.000		

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	2225-00-73 Qty	2225-00-74 Qty	2225-00-83 Qty
0100	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	249.000	249.000		
0102	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	107.000	107.000		
0104	608.2329	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45-Inch	LF	35.000	35.000		
0106	608.2424	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF	301.000	301.000		
0108	608.2429	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	LF	100.000	100.000		
0110	611.0530	Manhole Covers Type J	EACH	3.000	3.000		
0112	611.0535	Manhole Covers Type J-Special	EACH	3.000	3.000		
0114	611.0612	Inlet Covers Type C	EACH	3.000	3.000		
0116	611.0642	Inlet Covers Type MS	EACH	30.000	30.000		
0118	611.2004	Manholes 4-FT Diameter	EACH	10.000	10.000		
0120	611.2005	Manholes 5-FT Diameter	EACH	2.000	2.000		
0122	611.2006	Manholes 6-FT Diameter	EACH	5.000	5.000		
0124	611.2007	Manholes 7-FT Diameter	EACH	2.000	2.000		
0126	611.2055	Manholes 5x5-FT	EACH	1.000	1.000		
0128	611.3004	Inlets 4-FT Diameter	EACH	3.000	3.000		
0130	611.3901	Inlets Median 1 Grate	EACH	19.000	19.000		
0132	611.3902	Inlets Median 2 Grate	EACH	11.000	11.000		
0134	612.0106	Pipe Underdrain 6-Inch	LF	3,282.000	3,282.000		
0136	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	172.000	172.000		
0138	612.0600	Underdrain Trench	LF	172.000	172.000		
0140	612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	EACH	20.000	20.000		
0142	616.0700.S	Fence Safety	LF	600.000	600.000		
0144	618.0100	Maintenance and Repair of Haul Roads (project) 01. 2225-00-73	EACH	1.000	1.000		
0146	619.1000	Mobilization	EACH	1.000	1.000		
0148	623.0200	Dust Control Surface Treatment	SY	6,931.000	6,931.000		
0150	624.0100	Water	MGAL	42.000	42.000		
0152	625.0100	Topsoil	SY	8,847.000	8,847.000		
0154	627.0200	Mulching	SY	8,847.000	8,847.000		
0156	628.1104	Erosion Bales	EACH	41.000	41.000		
0158	628.1504	Silt Fence	LF	1,113.000	1,113.000		
0160	628.1520	Silt Fence Maintenance	LF	1,113.000	1,113.000		
0162	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000		
0164	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000		
0166	628.2008	Erosion Mat Urban Class I Type B	SY	8,847.000	8,847.000		
0168	628.7005	Inlet Protection Type A	EACH	24.000	24.000		
0170	628.7010	Inlet Protection Type B	EACH	119.000	119.000		
0172	628.7504	Temporary Ditch Checks	LF	214.000	214.000		
0174	628.7555	Culvert Pipe Checks	EACH	436.000	436.000		
0176	628.7570	Rock Bags	EACH	100.000	100.000		
0178	629.0210	Fertilizer Type B	CWT	11.000	11.000		
0180	630.0140	Seeding Mixture No. 40	LB	164.000	164.000		
0182	630.0200	Seeding Temporary	LB	68.000	68.000		
0184	630.0500	Seed Water	MGAL	57.000	57.000		
0186	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	6.000	6.000		
0188	634.0818	Posts Tubular Steel 2x2-Inch X 18-FT	EACH	74.000	74.000		
0190	637.2210	Signs Type II Reflective H	SF	380.270	380.270		
0192	637.2230	Signs Type II Reflective F	SF	390.860	390.860		
0194	638.2102	Moving Signs Type II	EACH	7.000	7.000		
0196	638.2602	Removing Signs Type II	EACH	71.000	71.000		

Line	Item	Item Description	Unit	Total	2225-00-73 Qty	2225-00-74 Qty	2225-00-83 Qty
0198	638.3000	Removing Small Sign Supports	EACH	71.000	71.000		
0200	642.5001	Field Office Type B	EACH	1.000	1.000		
0202	643.0300	Traffic Control Drums	DAY	87,334.000	87,334.000		
0204	643.0420	Traffic Control Barricades Type III	DAY	9,587.000	9,587.000		
0206	643.0705	Traffic Control Warning Lights Type A	DAY	19,173.000	19,173.000		
0208	643.0900	Traffic Control Signs	DAY	36,840.000	36,840.000		
0210	643.0920	Traffic Control Covering Signs Type II	EACH	10.000	10.000		
0212	643.1000	Traffic Control Signs Fixed Message	SF	257.000	257.000		
0214	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000		
0216	643.5000	Traffic Control	EACH	1.000	1.000		
0218	645.0111	Geotextile Type DF Schedule A	SY	4,365.000	4,365.000		
0220	645.0120	Geotextile Type HR	SY	33.000	33.000		
0222	645.0220	Geogrid Type SR	SY	850.000	850.000		
0224	646.1020	Marking Line Epoxy 4-Inch	LF	36,244.000	36,244.000		
0226	646.3020	Marking Line Epoxy 8-Inch	LF	1,039.000	1,039.000		
0228	646.5020	Marking Arrow Epoxy	EACH	15.000	15.000		
0230	646.5520	Marking Outfall Epoxy	EACH	22.000	22.000		
0232	646.6120	Marking Stop Line Epoxy 18-Inch	LF	622.000	622.000		
0234	646.7120	Marking Diagonal Epoxy 12-Inch	LF	851.000	851.000		
0236	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	656.000	656.000		
0238	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	798.000	180.000	618.000	
0240	650.4000	Construction Staking Storm Sewer	EACH	48.000	48.000		
0242	650.4500	Construction Staking Subgrade	LF	3,337.000	3,337.000		
0244	650.5000	Construction Staking Base	LF	3,337.000	3,337.000		
0246	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	251.000	251.000		
0248	650.8000	Construction Staking Resurfacing Reference	LF	13,817.000	13,817.000		
0250	650.9000	Construction Staking Curb Ramps	EACH	55.000	38.000	17.000	
0252	650.9911	Construction Staking Supplemental Control (project) 01. 2225-00-73	EACH	1.000	1.000		
0254	650.9920	Construction Staking Slope Stakes	LF	3,337.000	3,337.000		
0256	690.0150	Sawing Asphalt	LF	12,527.000	12,527.000		
0258	690.0250	Sawing Concrete	LF	3,650.000	3,650.000		
0260	740.0440	Incentive IRI Ride	DOL	5,234.000	5,234.000		
0262	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,000.000	1,000.000		
0264	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,400.000	2,400.000		
0266	SPV.0060	Special 01. Temporary Pedestrian Crossings	EACH	20.000	20.000		
0268	SPV.0060	Special 02. Utility Line Opening	EACH	24.000	8.000	6.000	10.000
0270	SPV.0060	Special 03. Concrete Base Special	EACH	1.000	1.000		
0272	SPV.0060	Special 31. Pipe Connection to Existing Structure	EACH	6.000	6.000		
0274	SPV.0060	Special 32. Manhole Covers Special	EACH	8.000	8.000		
0276	SPV.0060	Special 33. Inlet Covers Special	EACH	5.000	5.000		
0278	SPV.0060	Special 40. Hydrant Assembly With 6-Inch Gate Valve	EACH	27.000			27.000
0280	SPV.0060	Special 41. 8-Inch Gate Valve and Valve Box	EACH	14.000			14.000
0282	SPV.0060	Special 42. 12-Inch Gate Valve and Valve Box	EACH	24.000			24.000
0284	SPV.0060	Special 43. 1.25-Inch Corporation Stop	EACH	31.000			31.000
0286	SPV.0060	Special 44. 1.5-Inch Corporation Stop	EACH	1.000			1.000
0288	SPV.0060	Special 45. 2-Inch Corporation Stop	EACH	1.000			1.000
0290	SPV.0060	Special 46. 1.25-Inch Curb Box	EACH	31.000			31.000
0292	SPV.0060	Special 47. 1.5-inch Curb Box	EACH	1.000			1.000
0294	SPV.0060	Special 48. 2-Inch Curb Box	EACH	1.000			1.000

Line	Item	Item Description	Unit	Total	2225-00-73 Qty	2225-00-74 Qty	2225-00-83 Qty
0296	SPV.0060	Special 49. Cap and Abandon Existing Water Main	EACH	20.000			20.000
0298	SPV.0060	Special 50. Adjusting Sanitary Manhole	EACH	6.000			6.000
0300	SPV.0060	Special 51. Adjusting Water Valve Boxes	EACH	10.000			10.000
0302	SPV.0060	Special 61. RRFB System STH 32 NB at Barnett Ln Assembly	EACH	1.000		1.000	
0304	SPV.0060	Special 62. RRFB System STH 32 SB at Holly Ct Assembly	EACH	1.000		1.000	
0306	SPV.0060	Special 63. RRFB System STH 32 NB at Green Tree Rd Assembly	EACH	1.000		1.000	
0308	SPV.0060	Special 64. RRFB System STH 32 SB at Green Tree Rd Assembly	EACH	1.000		1.000	
0310	SPV.0060	Special 65. RRFB System STH 32 NB at Bridge Ln Assembly	EACH	1.000		1.000	
0312	SPV.0060	Special 66. RRFB System STH 32 SB at Bridge Ln Assembly	EACH	1.000		1.000	
0314	SPV.0060	Special 67. RRFB System STH 32 NB at Beach Dr Assembly	EACH	1.000		1.000	
0316	SPV.0060	Special 68. RRFB System STH 32 SB at Beach Dr Assembly	EACH	1.000		1.000	
0318	SPV.0060	Special 69. RRFB System STH 32 NB at Fox Ln Assembly	EACH	1.000		1.000	
0320	SPV.0060	Special 70. RRFB System STH 32 SB at Fox Ln Assembly	EACH	1.000		1.000	
0322	SPV.0060	Special 71. RRFB System STH 32 NB at Dean Rd Assembly	EACH	1.000		1.000	
0324	SPV.0060	Special 72. RRFB System STH 32 SB at Dean Rd Assembly	EACH	1.000		1.000	
0326	SPV.0075	Special 01. Pavement Cleanup Project 2225-00-73	HRS	40.000	40.000		
0328	SPV.0090	Special 01. Concrete Ditch Bottoms	LF	72.000	72.000		
0330	SPV.0090	Special 31. Pipe Underdrain Exploration	LF	100.000	100.000		
0332	SPV.0090	Special 32. Storm Sewer Lateral Exploation	LF	100.000	100.000		
0334	SPV.0090	Special 40. Hydrant Lead 6-Inch	LF	513.000			513.000
0336	SPV.0090	Special 41. PVC Water Main 6-Inch	LF	166.000			166.000
0338	SPV.0090	Special 42. PVC Water Main 8-Inch	LF	1,820.000			1,820.000
0340	SPV.0090	Special 43. PVC Water Main 12-Inch	LF	2,133.000			2,133.000
0342	SPV.0090	Special 44. HDPE Water Service 1.25-Inch	LF	1,267.000			1,267.000
0344	SPV.0090	Special 45. HDPE Water Service 1.5-Inch	LF	26.000			26.000
0346	SPV.0090	Special 46. HDPE Water Service 2-Inch	LF	55.000			55.000
0348	SPV.0195	Special 01. Management of Solid Waste	TON	125.000	125.000		

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GRUBBING

CATEGORY	ROADWAY	STATION	OFFSET	201.0205 GRUBBING STA	201.0220 GRUBBING ID
0010	STH 32	146+15	RT	2	--
0010	STH 32	158+75	RT	--	10
0010	STH 32	174+15	RT	1	--
0010	STH 32	208+75	RT	1	--
0010	STH 32	215+81	RT	--	12
0010	STH 32	218+95	RT	2	--
0010	STH 32	219+32	LT	--	6
0010	STH 32	255+40	RT	1	--
0010	STH 32	259+50	RT	1	--
0010	STH 32	271+50	RT	1	--
TOTAL 2225-00-73 CAT 0010				9	28

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REMOVALS

CATEGORY	ROADWAY	STATION	TO	STATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY
0010	STH 32	134+25	-	153+00	2,400	--	--
0010	STH 32	153+00	-	168+00	925	--	--
0010	STH 32	168+00	-	183+00	906	--	102
0010	STH 32	183+00	-	198+00	640	--	--
0010	STH 32	198+00	-	213+00	605	--	--
0010	STH 32	213+00	-	228+00	2,699	4	--
0010	STH 32	228+00	-	243+00	1,674	--	--
0010	STH 32	243+00	-	258+00	--	--	--
0010	STH 32	258+00	-	272+42	1,006	--	--
	TOTAL 2225-00-73 CAT 0010				10,855	4	102

REMOVING ASPHALTIC SURFACE

CATEGORY	ROADWAY	STATION	TO	STATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
0010	STH 32	134+25	-	153+00	104	6,633
0010	STH 32	153+00	-	168+00	55	5,568
0010	STH 32	168+00	-	183+00	71	6,702
0010	STH 32	183+00	-	198+00	14	4,615
0010	STH 32	198+00	-	213+00	69	4,399
0010	STH 32	213+00	-	228+00	82	4,816
0010	STH 32	228+00	-	243+00	70	5,168
0010	STH 32	243+00	-	258+00	117	5,967
0010	STH 32	258+00	-	272+42	71	5,710
	TOTAL 2225-00-73 CAT 0010				653	49,578

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EARTHWORK

DIVISION	FROM/TO STATION	205.0100 EXCAVATION COMMON (1)		AVAILABLE MATERIAL (4)	EXPANDED EBS BACKFILL (5)	UNEXPANDED FILL	EXPANDED FILL (6)	MASS ORDINATE +/- (7)	WASTE
		CUT (2)	EBS EXCAVATION (3)		FACTOR 1.00		FACTOR 1.00		
DIVISION 1									
STH 32 NB	215+04.93/269+51.67	239	0	239	0	10	10	229	229
STH 32 SB	170+32.34/270+97.74	620	0	620	0	67	67	553	553
DITCHING AT DRAINAGE STRUCTURES		400		400				400	400
CURB RAMPS		200		200				200	200
UNDISTRIBUTED			1,000		1,000			1,000	1,000
DIVISION 1 SUBTOTAL		1,459	1,000	1,459	1,000	77	77	2,382	2,382
GRAND TOTAL		1,459	1,000	1,459	1,000	77	77	2,382	2,382
	TOTAL EXCAVATION COMMON CAT 0010	2,459							

NOTES:
(1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT. NO ADJUSTMENTS HAVE BEEN MADE FOR SALVAGED/UNUSABLE PAVEMENT MATERIAL.
(3) EBS EXCAVATION TO BE BACKFILLED WITH BREAKER RUN
(4) AVAILABLE MATERIAL = CUT
(5) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH BREAKER RUN. EBS BACKFILL FACTOR = 1.00
(6) EXPANDED FILL FACTOR = 1.00
EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH - REDUCED EBS) * FILL FACTOR
(7) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
(8) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.
(9) STORM SEWER AND WATER MAIN EXCAVATION ARE NOT INCLUDED IN THIS TABLE AND SHOULD BE CONSIDERED ADDITIONAL WASTE. EXCAVATION FOR THESE ITEMS IS INCIDENTAL TO THE RESPECTIVE BID ITEMS.

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BACKFILL GRANULAR

CATEGORY	LOCATION	209.1100 BACKFILL GRANULAR GRADE 1 CY	REMARKS
0010	STH 32	170	BACKFILL GRANULAR TO BE USED AT LOCATION OF ABANDONED OR REMOVED DRAINAGE STRUCTURES
TOTAL 2225-00-73 CAT 0010		170	

PREPARE FOUNDATION

CATEGORY	STATION	TO	STATION	LOCATION	211.0101.01 PREPARE FOUNDATION FOR ASPHALTIC PAVING (2225-00-73) EACH
0010	134+25	-	272+42	STH 32 / SIDE ROADS	1
TOTAL 2225-00-73 CAT 0010					1

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SHAPING SHOULDERS

CATEGORY	LOCATION	STATION	TO	STATION	305.0500 SHAPING SHOULDERS STA
0010	STH 32	134+25	-	153+00	38
0010	STH 32	153+00	-	168+00	30
0010	STH 32	168+00	-	183+00	30
0010	STH 32	183+00	-	198+00	30
0010	STH 32	198+00	-	213+00	30
0010	STH 32	213+00	-	228+00	30
0010	STH 32	228+00	-	243+00	30
0010	STH 32	243+00	-	258+00	30
0010	STH 32	258+00	-	272+42	29
TOTAL 2225-00-73 CAT 0010					277

AGGREGATE

CATEGORY	ROADWAY	STATION	TO	STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 * BASE AGGREGATE DENSE 1 1/4-INCH TON	310.0110 BASE AGGREGATE OPEN-GRADED TON	311.0110 BREAKER RUN TON	REMARKS
0010	STH 32	134+25	-	153+00	186	118	--	--	
0010	STH 32	153+00	-	168+00	133	22	--	--	
0010	STH 32	168+00	-	183+00	134	189	269	--	
0010	STH 32	183+00	-	198+00	112	18	4	--	
0010	STH 32	198+00	-	213+00	157	162	214	--	
0010	STH 32	213+00	-	228+00	128	187	191	--	
0010	STH 32	228+00	-	243+00	132	85	55	--	
0010	STH 32	243+00	-	258+00	134	76	108	--	
0010	STH 32	258+00	-	272+42	136	64	74	--	
0010	UNDISTRIBUTED				750	--	--	2,070	BREAKER RUN TO BE USED AS EBS BACKFILL AS DIRECTED BY THE ENGINEER
TOTAL 2225-00-73 CAT 0010					2,002	921	915	2,070	

* = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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CATEGORY	ROADWAY	STATION	TO	STATION	4-IN HMA SF	5-IN HMA SF	6.5-IN HMA SF	TACK COAT GAL	HMA PAVEMENT 3 LT 58-28 S TON	HMA PAVEMENT 4 LT 58-28 S TON	REMARKS
							HMA PAVEMENT	455.0605	460.5223	460.5224	
0010	STH 32	134+25	-	153+00	63763	--	--	1,042	917	713	
0010	STH 32	153+00	-	168+00	50915	--	--	832	732	569	
0010	STH 32	168+00	-	183+00	51253	--	--	838	737	573	
0010	STH 32	183+00	-	198+00	41533	--	--	680	597	464	
0010	STH 32	198+00	-	213+00	60812	--	--	994	874	680	
0010	STH 32	213+00	-	228+00	43430	--	--	710	624	486	
0010	STH 32	228+00	-	243+00	48074	--	--	786	691	537	
0010	STH 32	243+00	-	258+00	53898	--	--	882	775	603	
0010	STH 32	258+00	-	272+42	48130	--	--	788	692	538	
0010	STH 32	168+00	-	183+00	--	4,018	--	66	83	45	GREEN TREE ROAD
0010	STH 32	258+00	-	272+42	--	4,281	--	66	82	44	DEAN ROAD
0010	STH 32	134+25	-	153+00	--	--	6,675	165	203	75	
0010	STH 32	153+00	-	168+00	--	--	1,369	35	42	15	
0010	STH 32	168+00	-	183+00	--	--	10,276	252	312	115	
0010	STH 32	183+00	-	198+00	--	--	1,002	26	30	11	
0010	STH 32	198+00	-	213+00	--	--	6,200	153	188	69	
0010	STH 32	213+00	-	228+00	--	--	14,069	345	427	157	
0010	STH 32	228+00	-	243+00	--	--	5,872	144	178	66	
0010	STH 32	243+00	-	258+00	--	--	3,002	75	91	34	
0010	STH 32	258+00	-	272+42	--	--	5,484	135	166	61	
				TOTAL 2225-00-73 CAT 0010				9,014	8,441	5,855	

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ASPHALTIC SURFACE

CATEGORY	ROADWAY	STATION	TO	STATION	465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
0010	STH 32	134+25	-	153+00	13	40
0010	STH 32	153+00	-	168+00	--	6
0010	STH 32	168+00	-	183+00	27	5
0010	STH 32	183+00	-	198+00	2	7
0010	STH 32	198+00	-	213+00	--	16
0010	STH 32	213+00	-	228+00	18	29
0010	STH 32	228+00	-	243+00	13	9
0010	STH 32	243+00	-	258+00	--	4
0010	STH 32	258+00	-	272+42	--	3
	TOTAL 2225-00-73 CAT 0010				73	119

CURB AND GUTTER

CATEGORY	ROADWAY	STATION	TO	STATION	601.0411 * CONCRETE CURB & GUTTER 30-INCH TYPE D LF
0010	STH 32	168+00	-	183+00	150
	TOTAL 2225-00-73 CAT 0010				150

* = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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CONCRETE SIDEWALK

CATEGORY	ROADWAY	STATION	TO	STATION	602.0410 * CONCRETE SIDEWALK 5-INCH SF	602.0515 * CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	602.0615 * CURB RAMP DETECTABLE WARNING FIELD RADIAL NATURAL PATINA SF
0010	STH 32	134+25	-	153+00	464	96	--
0010	STH 32	153+00	-	168+00	281	48	--
0010	STH 32	168+00	-	183+00	684	24	85
0010	STH 32	183+00	-	198+00	--	--	--
0010	STH 32	198+00	-	213+00	483	24	31
0010	STH 32	213+00	-	228+00	145	--	33
0010	STH 32	228+00	-	243+00	369	72	--
0010	STH 32	243+00	-	258+00	328	48	--
0010	STH 32	258+00	-	272+42	591	48	25
	TOTAL 2225-00-73 CAT 0010				3,345	360	174

PIPE UNDERDRAIN

CATEGORY	LOCATION	STATION	TO	STATION	612.0106 PIPE UNDERDRAIN 6-INCH LF	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0600 UNDERDRAIN TRENCH LF	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH
0010	STH 32	134+25	-	153+00	--	--	--	--
0010	STH 32	153+00	-	168+00	--	--	--	--
0010	STH 32	168+00	-	183+00	629	24	24	2
0010	STH 32	183+00	-	198+00	43	11	11	1
0010	STH 32	198+00	-	213+00	713	35	35	4
0010	STH 32	213+00	-	228+00	795	45	45	7
0010	STH 32	228+00	-	243+00	297	19	19	2
0010	STH 32	243+00	-	258+00	430	25	25	2
0010	STH 32	258+00	-	272+42	375	13	13	2
	TOTAL 2225-00-73 CAT 0010				3,282	172	172	20

* = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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RIPRAP

CATEGORY	LOCATION	STATION	OFFSET	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY
0010	STH 32	159+02	45.49' RT	3	17
0010	STH 32	208+76	29.42' RT	3	16
TOTAL 2225-00-73 CAT 0010				6	33

DUST CONTROL

CATEGORY	PROJECT	623.0200 DUST CONTROL SURFACE TREATMENT SY
0010	2225-00-03	6,931
TOTAL 2225-00-73 CAT 0010		6,931

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WATER

LOCATION	624.0100 WATER MGAL
PROJECT-BASE AGGREGATE	2
PROJECT- EXCAVATION	10
UNDISTRIBUTED	30
TOTAL 2225-00-73 CAT 0010	42

FIELD OFFICE

CATEGORY	PROJECT	642.5001 FIELD OFFICE TYPE B EACH
0010	2225-00-03	1
TOTAL 2225-00-73 CAT 0010		1

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EROSION CONTROL

CATEGORY	LOCATION	STATION	TO	STATION	OFFSET	627.0200 MULCHING SY	625.0100 TOPSOIL SY	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7010 INLET PROTECTION TYPE B EACH	628.7005 INLET PROTECTION TYPE A EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
0010	STH 32	134+25	-	153+00		1,702	1,702	16	95	95	--	--	1,702	10	--	--	90	--	2	31	15	13
0010	STH 32	153+00	-	168+00		825	825	--	163	163	--	--	825	14	--	22	36	--	1	15	8	6
0010	STH 32	168+00	-	183+00		825	825	--	--	--	--	--	825	14	--	22	24	--	1	15	7	6
0010	STH 32	183+00	-	198+00		507	507	--	--	--	--	--	507	7	--	36	24	--	1	10	5	4
0010	STH 32	198+00	-	213+00		1,197	1,197	--	119	119	--	--	1,197	17	--	14	36	--	1	22	11	9
0010	STH 32	213+00	-	228+00		1,027	1,027	--	339	339	--	--	1,027	20	--	14	42	--	1	19	8	8
0010	STH 32	228+00	-	243+00		738	738	--	--	--	--	--	738	4	--	72	45	--	1	14	7	6
0010	STH 32	243+00	-	258+00		451	451	--	174	174	--	--	451	10	--	14	27	--	1	9	--	--
0010	STH 32	258+00	-	272+42		770	770	--	--	--	--	--	770	18	--	--	39	--	1	14	--	--
				UNDISTRIBUTED		805	805	25	223	223	4	4	805	5	24	20	73	100	1	15	7	6
				TOTAL 2225-00-73 CAT 0010		8,847	8,847	41	1,113	1,113	4	4	8,847	119	24	214	436	100	11	164	68	57

PAVEMENT MARKING

CATEGORY	LOCATION	STATION	TO	STATION	MARKING LINE EPOXY 4-INCH (YELLOW) LF	MARKING LINE EPOXY 4-INCH (WHITE) LF	MARKING LINE EPOXY 4-INCH (DOT PATTERN YELLOW) (DASHED YELLOW) (12.5 FT LINE 37.5 FT SKIP) LF	MARKING LINE EPOXY 4-INCH (WHITE) (3 FT LINE 9 FT SKIP) LF	MARKING LINE EPOXY 8-INCH (WHITE) LF	MARKING LINE EPOXY 8-INCH (WHITE) (3 FT LINE 9 FT SKIP) LF	MARKING ARROW EPOXY EACH	MARKING OUTFALL EPOXY EACH	MARKING STOP LINE EPOXY 18-INCH LF	MARKING DIAGONAL EPOXY 12-INCH (YELLOW) LF	MARKING DIAGONAL EPOXY 12-INCH (WHITE) LF	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	* MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH LF
					646.1020				646.3020		646.5020	646.5520	646.6120	646.7120		646.7420	646.7520
0010	STH 32	134+25	-	153+00	--	3,491	469	--	--	--	--	--	73	--	--	145	--
0010	STH 32	153+00	-	168+00	796	2,709	175	--	--	--	--	--	61	--	--	91	--
0010	STH 32	168+00	-	183+00	1,840	2,576	82	46	400	72	6	3	95	299	--	60	--
0010	STH 32	183+00	-	198+00	64	2,521	309	--	--	--	--	1	16	--	--	--	--
0010	STH 32	198+00	-	213+00	2,301	3,025	--	30	87	20	2	4	83	258	--	46	90
0010	STH 32	213+00	-	228+00	1,794	2,645	--	--	120	15	2	8	87	103	49	--	90
0010	STH 32	228+00	-	243+00	1,636	2,614	--	25	--	15	--	2	73	41	--	130	
0010	STH 32	243+00	-	258+00	749	2,514	204	--	91	--	2	2	71	60	--	93	
0010	STH 32	25800.00	-	272+42	927	2,541	163	--	202	15	3	2	63	41	--	90	
				SUBTOTAL	10,106	24,635	1,402	100	900	138	15	22	622	802	49	656	180
				TOTAL 2225-00-73 CAT 0010		36,244				1,039	15	22	622		851	656	180

* = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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					GEOSYNTHETIC		
					645.0111	645.0220	
CATEGORY	STATION	TO	STATION	LOCATION	GEOTEXTILE TYPE DF SCHEDULE A SY	GEOGRID TYPE SR SY	REMARKS
0010	134+25	-	153+00	STH 32			
0010	153+00	-	168+00	STH 32	--	--	
0010	168+00	-	183+00	STH 32	1,097	--	
0010	183+00	-	198+00	STH 32	25	--	
0010	198+00	-	213+00	STH 32	1,054	--	
0010	213+00	-	228+00	STH 32	950	--	
0010	228+00	-	243+00	STH 32	298	--	
0010	243+00	-	258+00	STH 32	548	--	
0010	258+00	-	272+42	STH 32	393	--	
0010				UNDISTRIBUTED	--	850	FOR USE AT EBS AREAS AS DIRECTED BY THE ENGINEER
	TOTAL 2225-00-73 CAT 0010				4,365	850	

3

CONSTRUCTION STAKING

					650.4000	650.4500	650.5000	650.5500	650.8000	650.9000	650.9911	650.9920
CATEGORY	ROADWAY	STATION	TO	STATION	CONSTRUCTION STAKING STORM SEWER EACH	CONSTRUCTION STAKING SUBGRADE LF	CONSTRUCTION STAKING BASE LF	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	CONSTRUCTION STAKING RESURFACING REFERENCE LF	* CONSTRUCTION STAKING CURB RAMPS EACH	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 2225-00-73 EACH	CONSTRUCTION STAKING SLOPE STAKES LF
0010	STH 32	134+25	-	153+00	2	--	--	--	1,875	8	--	--
0010	STH 32	153+00	-	168+00	6	--	--	--	1,500	4	--	--
0010	STH 32	168+00	-	183+00	5	714	714	225	1,500	4	--	714
0010	STH 32	183+00	-	198+00	2	42	42	--	1,500	--	--	42
0010	STH 32	198+00	-	213+00	7	700	700	--	1,500	4	--	700
0010	STH 32	213+00	-	228+00	16	808	808	25	1,500	2	--	808
0010	STH 32	228+00	-	243+00	--	296	296	--	1,500	6	--	296
0010	STH 32	243+00	-	258+00	--	441	441	--	1,500	4	--	441
0010	STH 32	258+00	-	272+42	10	336	336	--	1,442	6	--	336
	UNDISTRIBUTED										1	
	TOTAL 2225-00-73 CAT 0010				48	3,337	3,337	251	13,817	38	1	3,337

* = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

SAWING

CATEGORY	LOCATION	STATION	TO	STATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
0010	STH 32	134+25	-	153+00	2,320	1,207
0010	STH 32	153+00	-	168+00	484	180
0010	STH 32	168+00	-	183+00	1,457	60
0010	STH 32	183+00	-	198+00	226	120
0010	STH 32	198+00	-	213+00	1,648	164
0010	STH 32	213+00	-	228+00	2,025	823
0010	STH 32	228+00	-	243+00	1,608	795
0010	STH 32	243+00	-	258+00	1,111	24
0010	STH 32	258+00	-	272+42	1,648	277
				TOTAL 2225-00-73 CAT 0010	12,527	3,650

3

MANAGEMENT OF SOLID WASTE

CATEGORY	ROADWAY	STATION	TO	STATION	SPV.0195.01 MANAGEMENT OF SOLID WASTE TON
0010	GREEN TREE RD	49+15	-	49+35	125
				TOTAL 2225-00-73 CAT 0010	125

FENCE SAFETY

CATEGORY	LOCATION	616.0700.S FENCE SAFETY LF
0010	STH 32	600
	TTOAL 2225-00-73 CAT 0010	600

3

TRAFFIC CONTROL

CATEGORY	STAGE	STAGE DURATION DAYS	LOCATION	643.0300 TRAFFIC CONTROL DRUMS EACH	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH^	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE EACH	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY
0010	ROADWAY	145	STH 32	553	80,185	48	6,960	96	13,920	49	7,105	--	--	--	--	--
0010	CULVERT CROSSINGS	5	STH 32	--	--	117	585	234	1,170	41	205	--	--	--	--	--
0010	WATER MAIN CROSSINGS	5	STH 32	--	--	197	985	394	1,970	65	325	--	--	--	--	--
0010	DETOUR	145	STH 32	--	--	4	580	8	1,160	182	26,390	--	9	257	--	--
0010	PED DETOUR	10	STH 32	299	2,990	2	20	4	40	106	1,060	--	--	--	--	--
			SUBTOTAL	83,175		9,130		18,260		35,085		--	257		--	
			UNDISTRIBUTED	4,159		457		913		1,754		10	--		28	
	TOTAL 2225-00-73 CAT 0010			87,334		9,587		19,173		36,840		10	257		28	

^=ONE CYCLE

TEMPORARY PEDESTRIAN CROSSINGS

CATEGORY	LOCATION	STATION	TO	STATION	SPV.0060.01 TEMPORARY PEDESTRIAN CROSSINGS EACH
0010	LAKE DR/ACACIA RD	--	-	--	1
0010	LAKE DR/APPLE TREE RD	--	-	--	1
0010	LAKE DR/DAPHNE RD	--	-	--	1
0010	LAKE DR/HOLLY CT	--	-	--	1
0010	LAKE DR	161+25	-	162+50	1
0010	LAKE DR	169+25	-	170+50	1
0010	LAKE DR/GREEN TREE RD	--	-	--	1
0010	LAKE DR/BELL RD	--	-	--	1
0010	LAKE DR/PORTAGE RD	--	-	--	1
0010	LAKE DR/CALUMET RD	--	-	--	1
0010	LAKE DR	221+00	-	221+50	1
0010	LAKE DR/BEACH DR	--	-	--	1
0010	LAKE DR/HYDE WAY	--	-	--	1
0010	LAKE DR	232+50	-	233+50	1
0010	LAKE DR	239+00	-	240+50	1
0010	LAKE DR/QUARLES PL	--	-	--	1
0010	LAKE DR/FOX LN	--	-	--	1
0010	LAKE DR/CHURCHILL LN	--	-	--	1
0010	LAKE DR/SPOONER RD	--	-	--	1
0010	LAKE DR/DEAN RD	--	-	--	1
	TOTAL 2225-00-73 CAT 0010				20

PAVEMENT CLEANUP PROJECT

CATEGORY	PROJECT	SPV.0075.01 PAVEMENT CLEANUP PROJECT (2225-00-73) HRS
0010	2225-00-73	40
	TOTAL 2225-00-73 CAT 0010	40

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3

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2102 MOVING SIGNS TYPE II [EA]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 POSTS WOOD 4"X 6"X18' [EA]	634.0818 POSTS TUBULAR STEEL 2"X 2"X18' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1	R2-1 (2S)	II	35 MPH	24	x	30	5.00	--	--	1	1	--	1	--	--
2	J4-1 (2S)	II	--	24	x	36	6.00	--	--	2	1	1	--	--	--
	M3-1		--	24	x	12	--	--	--	--	--	--	--	--	--
	M1-6B		--	24	x	24	--	--	--	--	--	--	--	--	--
3	M1-93 (2S)	II	--	24	x	24	4.00	--	--	--	--	--	--	2	--
4	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
5	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
6	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
7	R2-1 (2S)	II	35 MPH	24	x	30	5.00	--	--	1	1	--	1	--	--
8	R2-1 (2S)	II	35 MPH	24	x	30	5.00	--	--	1	1	--	1	--	--
9	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
10	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
11	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
12	W16-7L (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
13	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
14	W16-7R (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
15	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
16	W16-7R (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
17	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
18	W16-7L (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
19	W14-3 (2S)	II	--	48	x	36	--	5.56	--	1	1	--	1	--	--
20	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
21	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
22	R1-1 (2M)	II	--	36	x	36	9.00	--	--	1	1	--	1	--	--
23	R1-1 (2M)	II	--	36	x	36	9.00	--	--	1	1	--	1	--	--
24	W10-2 (2S)	II	--	36	x	36	--	9.00	--	1	1	--	1	--	--
25	-- --	--	NO TRAIN HORN	--	x	--	--	--	1	--	--	--	--	24	--
26	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
27	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
28	W16-7L (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
29	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
30	W16-7R (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
31	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
32	W16-7R (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
33	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
34	W16-7L (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly

SHEET: 1 OF 5

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SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2102 MOVING SIGNS TYPE II [EA]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 POSTS WOOD 4"X 6"X18' [EA]	634.0818 POSTS TUBULAR STEEL 2"X 2"X18' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
35	W12-1D (2S)	II	--	24	x	24	--	4.00	--	1	1	--	1	--	2' HEIGHT
36	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
37	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
38	W10-2 (2S)	II	--	36	x	36	--	9.00	--	1	1	--	1	--	--
39	-- --	--	NO TRAIN HORN	--	x	--	--	--	1	--	--	--	--	38	--
40	W14-3 (2S)	II	--	48	x	36	--	5.56	--	1	1	--	1	--	--
41	R2-1 (2S)	II	35 MPH	24	x	30	5.00	--	--	1	1	--	1	--	--
42	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
43	W14-3 (2S)	II	--	48	x	36	--	5.56	--	1	1	--	1	--	--
44	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
45	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
46	R2-1 (2S)	II	35 MPH	24	x	30	5.00	--	--	1	1	--	1	--	--
47	R2-1 (2S)	II	35 MPH	24	x	30	5.00	--	--	1	1	--	1	--	--
48	J4-1 (2S)	II	--	24	x	36	6.00	--	--	2	1	1	--	--	--
	M3-1		--	24	x	12	--	--	--	--	--	--	--	--	--
	M1-6B		--	24	x	24	--	--	--	--	--	--	--	--	--
49	M1-93 (2S)	II	--	24	x	24	4.00	--	--	--	--	--	--	48	--
50	R1-1 (2S)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
51	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
52	W16-7L (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
53	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
54	W16-7R (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
55	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
56	W16-7R (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
57	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
58	W16-7L (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
59	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
60	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
61	W1-2L (2S)	II	--	30	x	30	6.25	--	--	1	1	--	1	--	--
62	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
63	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
64	W1-7 (2S)	II	--	48	x	24	--	8.00	--	1	1	--	1	--	--
65	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
66	W16-7L (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
67	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
68	W16-7R (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly

SHEET: 2 OF 5

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SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2102 MOVING SIGNS TYPE II [EA]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 POSTS WOOD 4"X 6"X18' [EA]	634.0818 POSTS TUBULAR STEEL 2"X 2"X18' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
69	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
70	W16-7R (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
71	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
72	W16-7L (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
73	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
74	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
75	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
76	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
77	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
78	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
79	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
80	S3-1 (2S)	II	--	36	x	36	--	9.00	--	1	1	--	1	--	--
81	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
82	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
83	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
84	W14-3 (2S)	II	--	48	x	36	--	5.56	--	1	1	--	1	--	--
85	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
86	W1-2R (2S)	II	--	30	x	30	--	6.25	--	1	1	--	1	--	--
87	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
88	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
89	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
90	W16-7R (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
91	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
92	W16-7L (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
93	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
94	W16-7L (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
95	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
96	W16-7R (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
97	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
98	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
99	R2-1 (2S)	II	35 MPH	24	x	30	5.00	--	--	1	1	--	1	--	--
100			--	--	x	--	--	--	--	1	1	--	--	--	--
101			--	--	x	--	--	--	--	1	--	--	--	100	--

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SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2102 MOVING SIGNS TYPE II [EA]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 POSTS WOOD 4"X 6"X18' [EA]	634.0818 POSTS TUBULAR STEEL 2"X 2"X18' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
102	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
103	W14-3 (2S)	II	--	48	x	36	--	5.56	--	1	1	--	1	--	--
104	W2-1 (2S)	II	--	30	x	30	--	6.25	--	1	1	--	1	--	--
105	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
106	R2-1 (2MS)	II	35 MPH	24	x	30	5.00	--	--	1	1	--	1	--	--
107	J4-1 (2S)	II	--	24	x	36	6.00	--	--	2	1	1	--	--	--
	M3-1		--	24	x	12	--	--	--	--	--	--	--	--	--
	M1-6B		--	24	x	24	--	--	--	--	--	--	--	--	--
108	M1-93 (2S)	II	--	24	x	24	4.00	--	--	--	--	--	--	107	--
109	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
110	W16-7L (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
111	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
112	W16-7R (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
113	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
114	W16-7R (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
115	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	--	--	Mount on RRFB Assembly
116	W16-7L (2M)	II	--	30	x	18	--	3.75	--	--	--	--	--	--	Mount on RRFB Assembly
117	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
118	R1-1 (2M)	II	--	36	x	36	7.46	--	--	1	1	--	1	--	--
119	W14-3 (2S)	II	--	48	x	36	--	5.56	--	1	1	--	1	--	--
120	J4-1 (2S)	II	--	24	x	36	6.00	--	--	2	1	1	--	--	--
	M3-1		--	24	x	12	--	--	--	--	--	--	--	--	--
	M1-6B		--	24	x	24	--	--	--	--	--	--	--	--	--
121	M1-93 (2S)	II	--	24	x	24	4.00	--	--	--	--	--	--	120	--
122	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	1	--	SHEET 2
123	W16-7L (2S)	II	--	24	x	12	--	2.00	--	--	--	--	--	122	SHEET 2
124	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	1	--	SHEET3
125	W16-7L (2S)	II	--	24	x	12	--	2.00	--	--	--	--	--	124	SHEET 3
126	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	1	--	SHEET 4
127	W16-7L (2S)	II	--	24	x	12	--	2.00	--	--	--	--	--	126	SHEET 4
128	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	1	--	SHEET 5
129	W16-7L (2S)	II	--	24	x	12	--	2.00	--	--	--	--	--	128	SHEET 5

SHEET: 4 OF 5

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SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2102 MOVING SIGNS TYPE II [EA]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 POSTS WOOD 4"X 6"X18' [EA]	634.0818 POSTS TUBULAR STEEL 2"X 2"X18' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
130	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	1	--	SHEET 6
131	W16-7L (2S)	II	--	24	x	12	--	2.00	--	--	--	--	--	130	SHEET 6
132	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	1	--	SHEET 7
133	W16-7L (2S)	II	--	24	x	12	--	2.00	--	--	--	--	--	132	SHEET 7
134	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	1	--	SHEET 8
135	W16-7L (2S)	II	--	24	x	12	--	2.00	--	--	--	--	--	134	SHEET 8
136	W11-2 (2S)	II	--	30	x	30	--	6.25	--	--	--	--	1	--	SHEET 19
137	W16-7L (2S)	II	--	24	x	12	--	2.00	--	--	--	--	--	136	SHEET 19
			--	--	x	--	--	--	--	--	--	--	--	--	--
			UNDISTRIBUTED	--	x	--	--	--	5	--	5	2	5	--	--
	TOTALS						380.27	390.86	7	71	71	6	74		

SHEET: 5 OF 5

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UTILITY LINE OPENING

CATEGORY	ROADWAY	SPV.0060.02 UTILITY LINE OPENING EACH
0010	STH 32	8
	TOTAL 2225-00-73 CAT 0010	8

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CONCRETE BASE SPECIAL

CATEGORY	ROADWAY	STATION	OFFSET	204.0195 REMOVING CONCRETE BASES	SPV.0060.03 CONCRETE BASE SPECIAL EACH	REMARKS
0010	STH 32	271+48	32' RT	1	1	DOCTOR'S PARK SIGN
TOTAL 2225-00-73 CAT 0010				1	1	

CONCRETE DITCH BOTTOMS

CATEGORY	ROADWAY	LOCATION	OFFSET	SPV.0090.01 CONCRETE DITCH BOTTOM LF
0010	STH 32	140+78	LT	11
0010	STH 32	143+68	LT	10
0010	STH 32	145+25	LT	10
0010	STH 32	146+11	LT	9
0010	STH 32	148+19	LT	10
0010	STH 32	149+18	LT	11
0010	STH 32	170+60	LT	11
TOTAL 2225-00-73 CAT 0010				72

* = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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REMOVING INLETS

CATEGORY	ROADWAY	STATION	OFFSET	204.0220 REMOVING INLETS EACH
0010	STH 32			
		146+17	25' LT	1
		159+07	25' RT	1
		164+16	25' RT	1
		165+06	26' LT	1
		174+18	81' LT	1
		175+30	36' LT	1
		191+99	23' RT	1
		192+00	25' LT	1
		199+62	31' LT	1
		208+81	20' LT	1
		216+22	24' RT	1
		216+91	22' LT	1
		217+27	32' LT	1
		218+95	25' LT	1
		259+07	25' LT	1
		259+14	35' LT	1
		256+55	50' LT	1
		259+75	25' LT	1
		TOTAL 2225-00-73 CAT 0010		18

REMOVING MANHOLES

CATEGORY	ROADWAY	STATION	OFFSET	204.0210 REMOVING MANHOLES EACH
0010	STH 32			
		146+18	22' RT	1
		200+65	22' LT	1
		216+60	23' RT	1
		218+94	26' RT	1
		259+56	37' LT	1
		TOTAL 2225-00-73 CAT 0010		5

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REMOVING SMALL PIPE CULVERTS

CATEGORY	ROADWAY	STATION	OFFSET	TO	STATION	OFFSET	203.0100 REMOVING SMALL PIPE CULVERTS EACH	NOTES
0010	STH 32							
		174+23.23	102' RT	--	174+23.03	82' RT	1	12" CMCP
		192+38.61	25' RT	--	191+99.10	23' RT	1	12" CMCP
		219+92.44	23' LT	--	219+71.16	23' LT	1	12" CMCP
		220+71.47	24' LT	--	220+50.19	24' LT	1	12" CMCP
		221+05.71	24' LT	--	220+78.76	24' LT	1	12" CMCP
		TOTAL 2225-00-73 CAT 0010					5	

REMOVING MASONRY

CATEGORY	ROADWAY	STATION	OFFSET	TO	STATION	OFFSET	204.0185 REMOVING MASONRY CY
0010	STH 32						
		165+06.29	26' LT	--	165+07.13	26' RT	15
		191+99.10	23' RT	--	192+00.30	25' LT	14
		203+80.91	27' LT	--	203+80.32	30' RT	15
		208+80.62	20' LT	--	208+78.99	22' RT	14
		216+90.91	22' LT	--	216+90.70	22' RT	12
		218+94.95	25' LT	--	218+94.47	26' RT	15
		TOTAL 2225-00-73 CAT 0010					86

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STORM SEWER PIPE REMOVALS

CATEGORY	ROADWAY	STATION	OFFSET	TO	STATION	OFFSET	204.0245.01 REMOVING STORM SEWER 10-INCH LF	204.0245.02 REMOVING STORM SEWER 12-INCH LF	204.0245.03 REMOVING STORM SEWER 15-INCH LF	204.0245.04 REMOVING STORM SEWER 18-INCH LF	204.0245.05 REMOVING STORM SEWER 21-INCH LF	204.0245.06 REMOVING STORM SEWER 24-INCH LF	204.0245.07 REMOVING STORM SEWER 30-INCH LF
0010	STH 32												
		146+17.08	23' LT	--	146+17.58	22' RT	--	--	--	--	--	--	45
		158+04.63	23' RT	--	158+57.98	24' RT	--	53	--	--	--	--	--
		159+08.36	31' RT	--	159+07.37	25' RT	--	6	--	--	--	--	--
		164+15.98	25' RT	--	165+07.13	26' RT	--	94	--	--	--	--	--
		174+18.04	81' LT	--	174+11.42	75' LT	--	9	--	--	--	--	--
		174+23.23	102' RT	--	174+23.03	82' RT	--	21	--	--	--	--	--
		175+30.04	36' LT	--	175+27.65	24' LT	--	12	--	--	--	--	--
		192+38.61	25' RT	--	191+99.10	23' RT	--	40	--	--	--	--	--
		199+23.29	27' LT	--	199+62.01	31' LT	--	--	--	--	40	--	--
		199+62.01	31' LT	--	200+65.14	22' LT	--	--	--	--	107	--	--
		203+87.64	28' LT	--	203+80.91	27' LT	--	7	--	--	--	--	--
		208+71.29	25' RT	--	208+63.40	25' RT	--	--	--	--	--	8	--
		208+90.46	22' RT	--	208+81.08	23' RT	--	9	--	--	--	--	--
		214+98.49	26' RT	--	216+22.30	24' RT	128	--	--	--	--	--	--
		215+96.48	22' LT	--	216+90.91	22' LT	--	--	--	92	--	--	--
		216+22.30	24' RT	--	216+59.68	23' RT	39	--	--	--	--	--	--
		216+90.70	22' RT	--	216+59.68	23' RT	--	--	32	--	--	--	--
		217+27.38	32' LT	--	216+90.91	22' LT	--	--	--	36	--	--	--
		218+78.15	24' LT	--	218+94.95	25' LT	--	17	--	--	--	--	--
		219+58.08	23' LT	--	218+94.95	25' LT	--	63	--	--	--	--	--
		219+92.44	23' LT	--	219+71.16	23' LT	--	21	--	--	--	--	--
		220+71.47	24' LT	--	220+50.19	24' LT	--	21	--	--	--	--	--
		221+05.71	24' LT	--	220+78.76	24' LT	--	27	--	--	--	--	--
		259+07.28	25' LT	--	259+14.05	34' LT	--	11	--	--	--	--	--
		259+14.05	34' LT	--	259+56.34	37' LT	--	--	42	--	--	--	--
		259+15.82	52' LT	--	259+14.05	34' LT	--	17	--	--	--	--	--
		259+56.34	37' LT	--	259+54.70	50' LT	--	--	--	--	--	13	--
		259+59.07	24' RT	--	259+56.34	37' LT	--	--	--	--	--	62	--
		259+75.45	25' LT	--	259+56.34	37' LT	--	23	--	--	--	--	--
		259+78.95	28' RT	--	259+61.46	29' RT	--	18	--	--	--	--	--
		271+03.44	26' RT	--	269+89.14	27' RT	--	114	--	--	--	--	--
		271+03.46	40' RT	--	271+03.44	26' RT	--	13	--	--	--	--	--
		271+44.64	46' RT	--	271+51.03	27' RT	--	20	--	--	--	--	--
		271+51.03	26' RT	--	271+03.44	26' RT	--	48	--	--	--	--	--
		TOTAL 2225-00-73 CAT 0010					167	664	74	128	147	83	45

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REMOVING DECORATIVE HEADWALLS

CATEGORY	ROADWAY	STATION	OFFSET	204.9060.S.01 REMOVING DECORATIVE HEADWALLS EACH
0010	STH 32			
		158+06	23' RT	1
		158+57	24' RT	1
		159+09	30' RT	1
		165+06	23' LT	1
		191+99	22' LT	1
		203+80	25' LT	1
		203+81	26' RT	1
		203+87	27' LT	1
		208+80	21' RT	1
		215+97	22' LT	1
		217+96	24' LT	1
		218+78	23' LT	1
		218+95	23' LT	1
		259+16	51' LT	1
		259+59	23' RT	1
		271+04	39' RT	1
		271+45	46' RT	1
		271+50	27' RT	1
	TOTAL 2225-00-73 CAT 0010			18

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CONCRETE COLLARS FOR PIPE

CATEGORY	ROADWAY	STATION	OFFSET	SIZE (IN)	520.8000* CONCRETE COLLARS FOR PIPE EACH
0010	STH 32				
		146+18	22' RT	30	1
		146+17	25' LT	12	1
		146+17	25' LT	21	1
		159+07	25' RT	12	1
		164+16	25' RT	12	1
		165+06	26' LT	12	2
		165+07	26' RT	18	1
		174+11	75' LT	12	1
		174+27	34' RT	32	2
		192+00	25' LT	15	1
		199+23	27' LT	21	1
		199+61	32' LT	18	1
		200+65	22' LT	4	1
		200+65	22' LT	12	1
		203+80	30' RT	18	1
		208+81	20' LT	12	1
		208+81	20' LT	24	1
		208+81	20' LT	15	1
		208+90	22' RT	12	1
		216+60	23' RT	18	1
		217+96	23' LT	8	1
		218+94	26' RT	15	1
		218+95	25' LT	18	1
		259+56	37' LT	24	1
		259+75	25' LT	12	1
		259+79	28' RT	12	1
		TOTAL 2225-00-73 CAT 0010			28

* = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SUBSURFACE EXPLORATION

CATEGORY	LOCATION	SPV.0090.31 PIPE UNDERDRAIN EXPLORATION LF	SPV.0090.32 STORM SEWER LATERAL EXPLORATION LF
0010	UNDISTRIBUTED	100	100
TOTAL 2225-00-73 CAT 0010		100	100

PIPE CONNECTION TO EXISTING STRUCTURE

CATEGORY	ROADWAY	STRUCTURE ID	STATION	OFFSET	SPV.0060.31 PIPE CONNECTION TO EXISTING STRUCTURE EACH
0010	STH 32				
		E163	203+81	27' LT	2
		E189	214+98	26' RT	1
		EXIST	216+91	22' RT	1
		E183	217+27	32' LT	1
		E251	269+89	27' RT	1
		TOTAL 2225-00-73 CAT 0010			6

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STORM SEWER PIPES

CATEGORY	LOCATION	FROM	-	TO	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE %	608.0312 SSPRC CLASS III 12-INCH LF	608.0315 SSPRC CLASS III 15-INCH LF	608.0318 SSPRC CLASS III 18-INCH LF	608.0321 SSPRC CLASS III 21-INCH LF	608.0324 SSPRC CLASS III 24-INCH LF
0010	STH 32	101	-	103	702.40	702.11	0.62%					
	STH 32	111	-	113	706.00	704.70	1.68%					
	STH 32	113	-	114	704.70	704.60	0.45%	22				
	STH 32	114	-	115	704.60	704.50	0.62%	16				
	STH 32	116	-	117	704.25	703.95	3.86%	8				
	STH 32	121	-	123	700.15	700.00	0.29%					
	STH 32	125	-	123	701.50	701.00	0.53%	94				
	STH 32	131	-	133	697.00	696.70	0.80%	37				
	STH 32	133	-	135	696.60	696.35	0.87%	29				
	STH 32	135	-	137	696.25	696.10	1.32%	11				
	STH 32	141	-	143	691.30	690.00	3.27%	40				
	STH 32	143	-	145	689.60	689.40	0.40%					
	STH 32	151	-	153	688.70	688.55	0.37%				40	
	STH 32	153	-	E155	688.55	688.45	0.10%				108	
	STH 32	161	-	163	688.78	688.70	1.18%	7				
	STH 32	163	-	165	687.50	687.30	0.35%					
	STH 32	165	-	167	688.25	687.90	1.77%		20			
	STH 32	171	-	175	688.00	687.50	1.13%					
	STH 32	173	-	175	687.80	687.60	1.95%	10				
	STH 32	175	-	177	686.65	686.58	0.40%			7		
	STH 32	175	-	179	686.65	686.58	0.40%					17
	STH 32	181	-	187	689.10	688.60	0.64%	78				
	STH 32	183	-	185	689.50	689.30	0.76%			26		
	STH 32	185	-	187	689.20	688.60	1.53%			39		
	STH 32	187	-	193	688.50	687.90	1.25%					
	STH 32	189	-	191	689.20	688.40	0.64%		125			
	STH 32	191	-	192	688.30	688.22	0.70%		12			
	STH 32	192	-	193	688.22	688.00	0.70%					
	STH 32	194	-	193	687.57	687.28	0.93%					
	STH 32	201	-	203	690.19	689.95	0.50%	48				
	STH 32	203	-	215	689.85	689.60	0.49%	51				
	STH 32	205	-	207	691.00	690.83	0.68%	25				
	STH 32	207	-	209	690.73	690.56	0.50%	33				
	STH 32	209	-	211	690.46	690.08	0.50%	76				
	STH 32	211	-	213	689.98	689.80	0.50%		36			
	STH 32	213	-	215	689.70	689.35	0.50%		70			
	STH 32	215	-	217	689.10	688.50	1.20%					
	STH 32	217	-	314	688.25	687.57	0.33%		205			
	STH 32	221	-	223	670.20	670.00	0.90%	22				
	STH 32	223	-	235	669.90	669.50	0.89%					
	STH 32	225	-	231	671.30	670.90	1.34%	30				
	STH 32	227	-	231	669.70	669.60	1.11%					
	STH 32	229	-	231	669.90	669.75	0.78%	19				
	STH 32	231	-	235	669.60	669.40	0.38%					
	STH 32	233	-	235	669.70	669.50	0.96%	21				
	STH 32	235	-	237	669.40	669.30	0.39%					
	STH 32	241	-	249	678.00	677.30	1.51%					
	STH 32	243	-	245	678.50	678.10	1.04%	38				
	STH 32	245	-	249	678.00	677.30	1.87%	38				
	STH 32	249	-	E251	677.20	676.10	0.88%					
		TOTAL 2225-00-73 CAT 0010						753	468	72	148	17

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STORM SEWER PIPES

CATEGORY	LOCATION	FROM	-	TO	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE %	608.0412 SSPRC CLASS IV 12-INCH LF	608.0415 SSPRC CLASS IV 15-INCH LF	608.2329 SSPRCHE CLASS HE-III 29X45-INCH LF	608.2424 SSPRCHE CLASS HE-IV 24X38-INCH LF	608.2429 SSPRCHE CLASS HE-IV 29X45-INCH LF
0010	STH 32	101	-	103	702.40	702.11	0.62%					47
	STH 32	111	-	113	706.00	704.70	1.68%	77				
	STH 32	113	-	114	704.70	704.60	0.45%					
	STH 32	114	-	115	704.60	704.50	0.62%					
	STH 32	116	-	117	704.25	703.95	3.86%					
	STH 32	121	-	123	700.15	700.00	0.29%				52	
	STH 32	125	-	123	701.50	701.00	0.53%					
	STH 32	131	-	133	697.00	696.70	0.80%					
	STH 32	133	-	135	696.60	696.35	0.87%					
	STH 32	135	-	137	696.25	696.10	1.32%					
	STH 32	141	-	143	691.30	690.00	3.27%					
	STH 32	143	-	145	689.60	689.40	0.40%				50	
	STH 32	151	-	153	688.70	688.55	0.37%					
	STH 32	153	-	E155	688.55	688.45	0.10%					
	STH 32	161	-	163	688.78	688.70	1.18%					
	STH 32	163	-	165	687.50	687.30	0.35%				57	
	STH 32	165	-	167	688.25	687.90	1.77%					
	STH 32	171	-	175	688.00	687.50	1.13%				44	
	STH 32	173	-	175	687.80	687.60	1.95%					
	STH 32	175	-	177	686.65	686.58	0.40%					
	STH 32	175	-	179	686.65	686.58	0.40%					
	STH 32	181	-	187	689.10	688.60	0.64%					
	STH 32	183	-	185	689.50	689.30	0.76%					
	STH 32	185	-	187	689.20	688.60	1.53%					
	STH 32	187	-	193	688.50	687.90	1.25%				48	
	STH 32	189	-	191	689.20	688.40	0.64%					
	STH 32	191	-	192	688.30	688.22	0.70%					
	STH 32	192	-	193	688.22	688.00	0.70%		31			
	STH 32	194	-	193	687.57	687.28	0.93%		31			
	STH 32	201	-	203	690.19	689.95	0.50%					
	STH 32	203	-	215	689.85	689.60	0.49%					
	STH 32	205	-	207	691.00	690.83	0.68%					
	STH 32	207	-	209	690.73	690.56	0.50%					
	STH 32	209	-	211	690.46	690.08	0.50%					
	STH 32	211	-	213	689.98	689.80	0.50%					
	STH 32	213	-	215	689.70	689.35	0.50%					
	STH 32	215	-	217	689.10	688.50	1.20%				50	
	STH 32	217	-	314	688.25	687.57	0.33%					
	STH 32	221	-	223	670.20	670.00	0.90%					
	STH 32	223	-	235	669.90	669.50	0.89%		45			
	STH 32	225	-	231	671.30	670.90	1.34%					
	STH 32	227	-	231	669.70	669.60	1.11%			9		
	STH 32	229	-	231	669.90	669.75	0.78%					
	STH 32	231	-	235	669.60	669.40	0.38%					53
	STH 32	233	-	235	669.70	669.50	0.96%					
	STH 32	235	-	237	669.40	669.30	0.39%			26		
	STH 32	241	-	249	678.00	677.30	1.51%	46				
	STH 32	243	-	245	678.50	678.10	1.04%					
	STH 32	245	-	249	678.00	677.30	1.87%					
	STH 32	249	-	E251	677.20	676.10	0.88%	126				
		TOTAL 2225-00-73 CAT 0010						249	107	35	301	100

3

3

STORM SEWER STRUCTURES

CATEGORY	STRUCTURE	LOCATION	STATION	OFFSET**	RIM*** ELEVATION	INVERT**** ELEVATION	DEPTH***** FT	520.8000* CONCRETE COLLARS FOR PIPE EACH	522.1018 AEW FOR CPRC 18-INCH EACH	522.2629 AEW FOR CPRCHE 29x45-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0612 INLET COVERS TYPE C EACH	611.0642 INLET COVERS TYPE MS EACH	SPV.0060.32 MANHOLE COVERS SPECIAL EACH	SPV.0060.33 INLET COVERS SPECIAL EACH
0010	101	STH 32	146+17.12	24.90' LT	706.98	702.40	4.96							1		
	103	STH 32	146+17.58	21.63' RT	707.44	702.01	4.46				1					
	111	STH 32	157+99.27	26.13' RT		706.00										
	113	STH 32	158+76.42	25.24' RT	706.80	704.70	2.27							1		
	114	STH 32	158+86.21	45.38' RT	707.20	704.20	2.17								1	
	115	STH 32	159+02.36	45.49' RT		704.50										
	116	STH 32	159+07.43	32.76' RT		704.25										
	117	STH 32	159+07.37	24.98' RT	705.75	703.75	2.00							1		
	121	STH 32	165+06.29	26.18' LT	703.40	700.15	3.56							1		
	123	STH 32	165+07.13	26.27' RT	703.40	700.00	3.71							1		
	125	STH 32	164+15.99	24.58' RT	703.50	701.20	2.30							1		
	131	STH 32	174+23.61	111.17' RT	699.21	697.00	2.37							1		
	133	STH 32	174+20.79	73.84' RT	699.00	696.60	2.57							1		
	135	STH 32	174+26.53	45.64' RT	699.30	696.25	2.38									1
	137	STH 32	174+27.47	34.34' RT	699.46	694.10	4.45					1				
	139	STH 32	174+11.45	74.89' LT	700.83	698.56	2.44							1		
	141	STH 32	192+38.81	25.10' RT		691.30										
	143	STH 32	191+99.08	25.10' RT	692.30	689.60	3.01							1		
	145	STH 32	192+00.30	24.85' LT	692.50	689.32	3.41							1		
	151	STH 32	199+23.30	26.68' LT		688.70		1								
	153	STH 32	199+61.44	32.43' LT	691.75	688.55	3.43							1		
	E155	STH 32	200+65.14	22.23' LT	692.77	688.45	3.31					1				
	161	STH 32	203+87.70	26.99' LT		688.78										
	162	STH 32	203+63.26	27.23' LT	690.71	687.88	3.14							1		
	163	STH 32	203+80.91	27.07' LT	692.00	687.50	3.98								1	
	165	STH 32	203+80.32	29.86' RT	690.10	687.19	3.12							1		
	167	STH 32	203+60.52	29.62' RT		688.25										
	171	STH 32	208+80.62	19.81' LT	692.29	688.00	3.77								1	
	173	STH 32	208+90.46	22.06' RT	690.80	687.80	2.33									1
	175	STH 32	208+80.61	24.44' RT	692.40	686.65	5.17								1	
	177	STH 32	208+76.38	29.42' RT		688.70			1							
	179	STH 32	208+63.40	25.39' RT		686.58		1								
	181	STH 32	215+80.37	24.10' LT	691.50	689.10	2.57							1		
	183	STH 32	217+27.38	31.99' LT	692.78	689.50	2.25								1	
	185	STH 32	217+01.10	24.54' LT	692.59	689.20	3.60							1		
	187	STH 32	216+60.66	24.47' LT	692.00	688.50	3.81							1		
	189	STH 32	214+98.49	25.69' RT	691.69	689.20	2.67							1		
	191	STH 32	216+19.37	27.70' RT	691.30	688.30	2.35									1
	192	STH 32	216+30.64	26.33' RT	692.69	688.22	3.42				1					
	193	STH 32	216+60.66	23.57' RT	692.88	687.27	5.58					1				
	194	STH 32	216+90.74	20.68' RT		689.10		1								
	201	STH 32	217+95.99	23.37' LT	692.65	690.19	2.63							1		
	203	STH 32	218+43.79	23.60' LT	692.30	689.85	2.61							1		
	205	STH 32	221+37.63	23.60' LT	693.30	691.00	2.47							1		
	207	STH 32	221+12.45	23.80' LT	693.30	690.73	2.74							1		
	209	STH 32	220+78.55	23.73' LT	693.20	690.46	2.91							1		
	211	STH 32	220+01.49	23.28' LT	692.60	689.98	2.81							1		
	213	STH 32	219+65.02	23.93' LT	692.50	689.70	2.99							1		
	215	STH 32	218+94.92	23.85' LT	691.90	689.10	3.11							1		
	217	STH 32	218+94.47	26.32' RT	692.35	688.25	3.46								1	
	221	STH 32	259+14.85	51.68' LT	672.90	669.90	2.17									1
	223	STH 32	259+09.84	29.98' LT	673.10	669.90	2.55									1
	225	STH 32	259+29.87	27.21' RT		671.30										
	227	STH 32	259+60.50	36.38' RT		669.70				1						
	229	STH 32	259+78.95	28.16' RT	672.60	669.60	3.00							1		
	231	STH 32	259+59.66	27.43' RT	674.00	669.60	3.94								1	
	233	STH 32	259+75.45	25.26' LT	672.00	669.70	2.47							1		
	235	STH 32	259+54.70	25.67' LT	673.79	669.40	3.93								1	
	237	STH 32	259+54.69	51.30' LT	672.40	669.23	3.47							1		
	241	STH 32	271+51.24	28.26' RT	681.50	678.00	2.43						1			
	243	STH 32	271+43.07	63.98' RT	682.10	678.50	2.53						1			
	245	STH 32	271+04.59	63.96' RT	682.00	678.00	2.93						1			
	249	STH 32	271+05.06	26.47' RT	681.83	677.20	3.56				1					
	E251	STH 32	269+79.15	26.72' RT	679.47	676.00	3.64							1		
	E261	STH 32	175+30.04	35.99' LT	699.13	694.13	3.83									
			TOTAL 2225-00-73 CAT 0010					3	1	1	3	3	3	30	8	5

REMARKS:
*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
**STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE
***RIM ELEV IS AT THE INLET COVER FLANGE LOCATION
****FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE
*****DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6-INCH ADJUSTMENT RING HEIGHT

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STORM SEWER STRUCTURES

CATEGORY	STRUCTURE	LOCATION	STATION	OFFSET**	RIM*** ELEVATION	INVERT**** ELEVATION	DEPTH***** FT	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2055 MANHOLES 5X5-FT EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	DECORATIVE HEADWALL - # EACH
0010	101	STH 32	146+17.12	24.90' LT	706.98	702.40	4.96								1	
	103	STH 32	146+17.58	21.63' RT	707.44	702.01	4.46			1						
	111	STH 32	157+99.27	26.13' RT		706.00										1
	113	STH 32	158+76.42	25.24' RT	706.80	704.70	2.27							1		
	114	STH 32	158+86.21	45.38' RT	707.20	704.20	2.17	1								
	115	STH 32	159+02.36	45.49' RT		704.50										1
	116	STH 32	159+07.43	32.76' RT		704.25										1
	117	STH 32	159+07.37	24.98' RT	705.75	703.75	2.00							1		
	121	STH 32	165+06.29	26.18' LT	703.40	700.15	3.56								1	
	123	STH 32	165+07.13	26.27' RT	703.40	700.00	3.71								1	
	125	STH 32	164+15.99	24.58' RT	703.50	701.20	2.30							1		
	131	STH 32	174+23.61	111.17' RT	699.21	697.00	2.37							1		
	133	STH 32	174+20.79	73.84' RT	699.00	696.60	2.57							1		
	135	STH 32	174+26.53	45.64' RT	699.30	696.25	2.38	1								
	137	STH 32	174+27.47	34.34' RT	699.46	694.10	4.45		1							
	139	STH 32	174+11.45	74.89' LT	700.83	698.56	2.44									
	141	STH 32	192+38.81	25.10' RT		691.30								1		1
	143	STH 32	191+99.08	25.10' RT	692.30	689.60	3.01								1	
	145	STH 32	192+00.30	24.85' LT	692.50	689.32	3.41								1	
	151	STH 32	199+23.30	26.68' LT		688.70										
	153	STH 32	199+61.44	32.43' LT	691.75	688.55	3.43								1	
	E155	STH 32	200+65.14	22.23' LT	692.77	688.45	3.31		1							
	161	STH 32	203+87.70	26.99' LT		688.78										1
	162	STH 32	203+63.26	27.23' LT	690.71	687.88	3.14								1	
	163	STH 32	203+80.91	27.07' LT	692.00	687.50	3.98					1				
	165	STH 32	203+80.32	29.86' RT	690.10	687.19	3.12								1	
	167	STH 32	203+60.52	29.62' RT		688.25										1
	171	STH 32	208+80.62	19.81' LT	692.29	688.00	3.77			1						
	173	STH 32	208+90.46	22.06' RT	690.80	687.80	2.33	1								
	175	STH 32	208+80.61	24.44' RT	692.40	686.65	5.17			1						
	177	STH 32	208+76.38	29.42' RT		688.70										
	179	STH 32	208+63.40	25.39' RT		686.58										
	181	STH 32	215+80.37	24.10' LT	691.50	689.10	2.57							1		
	183	STH 32	217+27.38	31.99' LT	692.78	689.50	2.25	1								
	185	STH 32	217+01.10	24.54' LT	692.59	689.20	3.60							1		
	187	STH 32	216+60.66	24.47' LT	692.00	688.50	3.81								1	
	189	STH 32	214+98.49	25.69' RT	691.69	689.20	2.67							1		
	191	STH 32	216+19.37	27.70' RT	691.30	688.30	2.35	1								
	192	STH 32	216+30.64	26.33' RT	692.69	688.22	3.42	1								
	193	STH 32	216+60.66	23.57' RT	692.88	687.27	5.58			1						
	194	STH 32	216+90.74	20.68' RT		689.10										
	201	STH 32	217+95.99	23.37' LT	692.65	690.19	2.63							1		
	203	STH 32	218+43.79	23.60' LT	692.30	689.85	2.61							1		
	205	STH 32	221+37.63	23.60' LT	693.30	691.00	2.47							1		
	207	STH 32	221+12.45	23.80' LT	693.30	690.73	2.74							1		
	209	STH 32	220+78.55	23.73' LT	693.20	690.46	2.91							1		
	211	STH 32	220+01.49	23.28' LT	692.60	689.98	2.81							1		
	213	STH 32	219+65.02	23.93' LT	692.50	689.70	2.99							1		
	215	STH 32	218+94.92	23.85' LT	691.90	689.10	3.11								1	
	217	STH 32	218+94.47	26.32' RT	692.35	688.25	3.46			1						
	221	STH 32	259+14.85	51.68' LT	672.90	669.90	2.17	1								
	223	STH 32	259+09.84	29.98' LT	673.10	669.90	2.55	1								
	225	STH 32	259+29.87	27.21' RT		671.30										1
	227	STH 32	259+60.50	36.38' RT		669.70										
	229	STH 32	259+78.95	28.16' RT	672.60	669.60	3.00							1		
	231	STH 32	259+59.66	27.43' RT	674.00	669.60	3.94				1					
	233	STH 32	259+75.45	25.26' LT	672.00	669.70	2.47							1		
	235	STH 32	259+54.70	25.67' LT	673.79	669.40	3.93				1					
	237	STH 32	259+54.69	51.30' LT	672.40	669.23	3.47								1	
	241	STH 32	271+51.24	28.26' RT	681.50	678.00	2.43						1			
	243	STH 32	271+43.07	63.98' RT	682.10	678.50	2.53						1			
	245	STH 32	271+04.59	63.96' RT	682.00	678.00	2.93						1			
	249	STH 32	271+05.06	26.47' RT	681.83	677.20	3.56	1								
	E251	STH 32	269+79.15	26.72' RT	679.47	676.00	3.64							1		
	E261	STH 32	175+30.04	35.99' LT	699.13	694.13	3.83	1								
			TOTAL 2225-00-73 CAT 0010					10	2	5	2	1	3	19	11	7

REMARKS:
**STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE
***RIM ELEV IS AT THE INLET COVER FLANGE LOCATION
****FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE
*****DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6-INCH ADJUSTMENT RING HEIGHT
DECORATIVE HEADWALLS ARE NOT A BID ITEM AND WILL BE INSTALLED BY VILLAGE

3

RRFB HOLLY CT./BARNETT LN.

STATION	OFFSET	POLE NO	SPV.0060.61 RRFB SYSTEM STH 32 NB AT BARNETT LN ASSEMBLY EACH	SPV.0060.62 RRFB SYSTEM STH 32 SB AT HOLLY CT ASSEMBLY EACH
158+92	23.9' LT	RRFB 1	--	1
158+92	18.8' RT	RRFB 2	1	--
TOTAL 2225-00-74 CAT 0010			1	1

RRFB GREEN TREE RD.

STATION	OFFSET	POLE NO	SPV.0060.63 RRFB SYSTEM STH 32 NB AT GREEN TREE RD ASSEMBLY EACH	SPV.0060.64 RRFB SYSTEM STH 32 SB AT GREEN TREE RD ASSEMBLY EACH
174+28	32.8' LT	RRFB 11	--	1
174+18	28.4' RT	RRFB 12	1	--
TOTAL 2225-00-74 CAT 0010			1	1

3

RRFB BRIDGE LN.

STATION	OFFSET	POLE NO	SPV.0060.65 RRFB SYSTEM STH 32 NB AT BRIDGE LN ASSEMBLY EACH	SPV.0060.66 RRFB SYSTEM STH 32 SB AT BRIDGE LN ASSEMBLY EACH
206+49	19.8' LT	RRFB 21	--	1
206+49	20.7' RT	RRFB 22	1	--
TOTAL 2225-00-74 CAT 0010			1	1

RRFB BEACH DR.

STATION	OFFSET	POLE NO	SPV.0060.67 RRFB SYSTEM STH 32 NB AT BEACH DR ASSEMBLY EACH	SPV.0060.68 RRFB SYSTEM STH 32 SB AT BEACH DR ASSEMBLY EACH
221+29	19.8' LT	RRFB 31	--	1
221+21	21.3' RT	RRFB 32	1	--
TOTAL 2225-00-74 CAT 0010			1	1

RRFB FOX LN.

STATION	OFFSET	POLE NO	SPV.0060.69 RRFB SYSTEM STH 32 NB AT FOX LN ASSEMBLY EACH	SPV.0060.70 RRFB SYSTEM STH 32 SB AT FOX LN ASSEMBLY EACH
255+42	20.0' LT	RRFB 41	--	1
255+42	19.8' RT	RRFB 42	1	--
TOTAL 2225-00-74 CAT 0010			1	1

RRFB DEAN RD.

STATION	OFFSET	POLE NO	SPV.0060.71 RRFB SYSTEM STH 32 NB AT DEAN RD ASSEMBLY EACH	SPV.0060.72 RRFB SYSTEM STH 32 SB AT DEAN RD ASSEMBLY EACH
270+97	25.1' LT	RRFB 51	--	1
270+96	28.5' RT	RRFB 52	1	--
TOTAL 2225-00-74 CAT 0010			1	1

3

AGGREGATE

CATEGORY	ROADWAY	LOCATION	305.0120 * BASE AGGREGATE DENSE 1 1/4-INCH TON
0010	STH 32	HOLLY CT / BARNETT LN	15
0010	STH 32	GREEN TREE RD	9
0010	STH 32	BRIDGE LN	22
0010	STH 32	BEACH DR	12
0010	STH 32	FOX LN	15
0010	STH 32	DEAN ROAD	8
		TOTAL 2225-00-74 CAT 0010	81

CURB AND GUTTER

CATEGORY	ROADWAY	LOCATION	601.0411 * CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0110 CONCRETE CURB TYPE D LF
0010	STH 32	BARNETT LN	--	--
0010	STH 32	GREEN TREE RD	--	76
0010	STH 32	BRIDGE LN	--	--
0010	STH 32	BEACH DR	26	--
0010	STH 32	FOX LN	--	--
0010	STH 32	DEAN ROAD	--	--
		TOTAL 2225-00-74 CAT 0010	26	76

CONCRETE SIDEWALK

CATEGORY	ROADWAY	LOCATION	602.0410 * CONCRETE SIDEWALK 5-INCH SF	602.0515 * CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	602.0615 * CURB RAMP DETECTABLE WARNING FIELD RADIAL NATURAL PATINA SF
0010	STH 32	HOLLY CT / BARNETT LN	428	24	15
0010	STH 32	GREEN TREE RD	247	12	18
0010	STH 32	BRIDGE LN	647	12	39
0010	STH 32	BEACH DR	367	24	--
0010	STH 32	FOX LN	480	24	27
0010	STH 32	DEAN ROAD	235	12	28
		TOTAL 2225-00-74 CAT 0010	2,404	108	127

* = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

PAVEMENT MARKING

CATEGORY	LOCATION	STATION	646.7520 * MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH LF
0010	STH 32	HOLLY CT / BARNETT LN	72
0010	STH 32	GREEN TREE RD	210
0010	STH 32	BRIDGE LN	66
0010	STH 32	BEACH DR	66
0010	STH 32	FOX LN	66
0010	STH 32	DEAN ROAD	138
		TOTAL 2225-00-74 CAT 0010	618

CONSTRUCTION STAKING

CATEGORY	ROADWAY	STATION	650.9000 * CONSTRUCTION STAKING CURB RAMPS EACH
0010	STH 32	HOLLY CT / BARNETT LN	3
0010	STH 32	GREEN TREE RD	2
0010	STH 32	BRIDGE LN	3
0010	STH 32	BEACH DR	2
0010	STH 32	FOX LN	4
0010	STH 32	DEAN ROAD	3
		TOTAL 2225-00-74 CAT 0010	17

* = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

UTILITY LINE OPENING

CATEGORY	ROADWAY	SPV.0060.02 *UTILITY LINE OPENING EACH
0010	STH 32	6
	TOTAL 2225-00-74 CAT 0010	6

* = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

UTILITY LINE OPENING

CATEGORY	ROADWAY	SPV.0060.02 *UTILITY LINE OPENING EACH
0010	STH 32	10
	TOTAL 2225-00-83 CAT 0010	10

* = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

ADJUSTING SANITARY MANHOLES

CATEGORY	SAN MH #	STATION	OFFSET	EXST. RIM	PROP. RIM	SPV.0060.50 ADJUSTING SANITARY MANHOLE EACH	REMARKS
0010	5006-144	174+21	24' LT	700.03	700.45	1	AT GREEN TREE RD
0010	5005-002	198+33	18' LT	693.60	693.69	1	WITHIN WIDENING LIMITS
0010	5005-016	199+81	18' LT	693.46	693.49	1	WITHIN WIDENING LIMITS
0010	4003-133	242+73	16' RT	670.43	670.51	1	WITHIN WIDENING LIMITS
0010	4003-048	244+69	16' RT	672.06	672.04	1	WITHIN WIDENING LIMITS
0010	4002-084	269+49	19' LT	679.20	679.43	1	WITHIN WIDENING LIMITS
		TOTAL 2225-00-83 CAT 0010				6	

ADJUSTING WATER VALVE BOXES

CATEGORY	LOCATION	SPV.0060.51 ADJUSTING WATER VALVE BOXES EACH
0010	UNDISTRIBUTED	10
TOTAL 2225-00-83 CAT 0010		10

WATER MAIN ITEMS - SCHOOL ROAD TO DEAN ROAD - VILLAGE OF FOX POINT

CATEGORY	LOCATION	SPV.0060.40 HYDRANT ASSEMBLY WITH 6-INCH GATE VALVE EACH	SPV.0090.40 HYDRANT LEAD 6-INCH LF	SPV.0090.41 PVC WATER MAIN 6-INCH LF	SPV.0090.42 PVC WATER MAIN 8-INCH LF	SPV.0090.43 PVC WATER MAIN 12-INCH LF	SPV.0060.41 8-INCH GATE VALVE AND VALVE BOX EACH	SPV.0060.42 12-INCH GATE VALVE AND VALVE BOX EACH	SPV.0060.43 1.25-INCH CORPORATION STOP EACH	SPV.0060.44 1.5-INCH CORPORATION STOP EACH	SPV.0060.45 2-INCH CORPORATION STOP EACH	SPV.0060.46 1.25-INCH CURB BOX EACH	SPV.0060.47 1.5-INCH CURB BOX EACH	SPV.0060.48 2-INCH CURB BOX EACH	SPV.0090.44 HDPE WATER SERVICE 1.25-INCH LF	SPV.0090.45 HDPE WATER SERVICE 1.5-INCH LF	SPV.0090.46 HDPE WATER SERVICE 2-INCH LF	SPV.0060.49 CAP AND ABANDON EXISTING WATER MAIN EACH
0010	SCHOOL ROAD TO ACACIA ROAD	2	62	3	868	263	2	1	14	1	1	14	1	1	548	26	55	1
0010	ACACIA ROAD TO DAPHNE ROAD	1	5	---	---	35	---	---	5	---	---	5	---	---	357	---	---	1
0010	APPLE TREE ROAD	1	33	4	120	5	1	---	---	---	---	---	---	---	---	---	---	1
0010	DAPHNE ROAD	1	6	29	119	40	1	1	---	---	---	---	---	---	---	---	---	1
0010	HOLLY COURT	---	---	4	84	21	1	2	---	---	---	---	---	---	---	---	---	1
0010	SERVICE ROAD	2	67	---	---	19	---	---	---	---	---	---	---	---	---	---	---	1
0010	VIEW PLACE	1	15	---	---	17	---	1	---	---	---	---	---	---	---	---	---	1
0010	BELMONT ROAD	1	59	3	40	40	1	---	---	---	---	---	---	---	---	---	---	1
0010	GREEN TREE ROAD	---	---	---	---	10	---	2	---	---	---	---	---	---	---	---	---	1
0010	JUNIPER LANE	1	6	---	---	170	---	3	---	---	---	---	---	---	---	---	---	---
0010	DAISY LANE	---	---	4	47	16	1	1	---	---	---	---	---	---	---	---	---	1
0010	BRIDGE LANE	---	---	4	49	3	---	---	---	---	---	---	---	---	---	---	---	1
0010	WYE LANE	1	12	---	---	5	---	1	---	---	---	---	---	---	---	---	---	---
0010	COLEMAN LANE	1	18	28	23	21	1	1	---	---	---	---	---	---	---	---	---	1
0010	THORNE LANE	---	---	22	50	16	1	1	---	---	---	---	---	---	---	---	---	1
0010	CALUMET LANE TO BEACH DRIVE	1	32	---	---	572	---	2	7	---	---	7	---	---	205	---	---	1
0010	CLUB CIRCLE (SOUTH LEG)	1	6	---	---	5	---	---	---	---	---	---	---	---	---	---	---	1
0010	HYDE WAY TO CLUB CIRCLE (NORTH LEG)	2	58	---	84	604	---	2	5	---	---	5	---	---	157	---	---	1
0010	LINKS CIRCLE	1	40	16	63	29	1	1	---	---	---	---	---	---	---	---	---	1
0010	GOODRICH LANE	1	8	34	35	43	1	1	---	---	---	---	---	---	---	---	---	1
0010	QUARLES PLACE	1	10	---	---	17	---	1	---	---	---	---	---	---	---	---	---	---
0010	FOX LANE	---	---	---	---	5	---	1	---	---	---	---	---	---	---	---	---	---
0010	CHURCHILL LANE	1	4	---	---	5	---	---	---	---	---	---	---	---	---	---	---	---
0010	GRAY LOG LANE	1	4	15	23	23	1	1	---	---	---	---	---	---	---	---	---	1
0010	DEAN ROAD	1	26	---	215	83	2	1	---	---	---	---	---	---	---	---	---	1
0010	MISCELLANEOUS	5	42	---	---	66	---	---	---	---	---	---	---	---	---	---	---	---
	TOTAL 2225-00-83 CAT 0010	27	513	166	1,820	2,133	14	24	31	1	1	31	1	1	1,267	26	55	20

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY.
REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

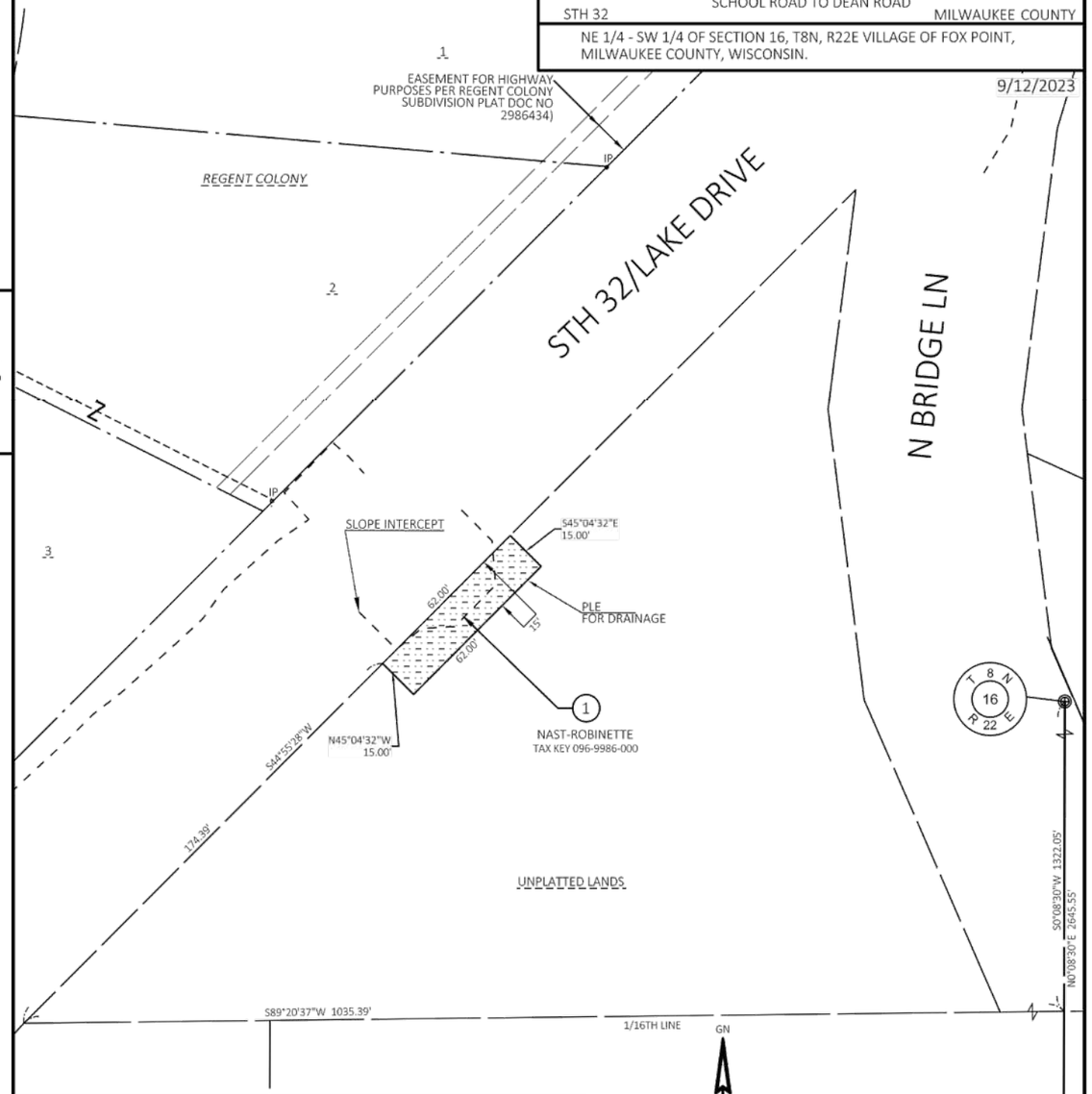
R/W PROJECT NUMBER: 2225-00-23	SHEET NUMBER: 4.01

TLE ACQUISITION EXHIBIT
STH 32 - VILLAGE OF FOX POINT
SCHOOL ROAD TO DEAN ROAD
STH 32 MILWAUKEE COUNTY

NE 1/4 - SW 1/4 OF SECTION 16, T8N, R22E VILLAGE OF FOX POINT, MILWAUKEE COUNTY, WISCONSIN.

9/12/2023

4



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNERS()	INTEREST REQUIRED	PLE S.F.	TLE S.F.
1	JESSICA NAST-ROBINETTE GIFT & INHERITENCE MANAGEMENT TRUST	PLE	930	

UTILITY INTERESTS REQUIRED

THIS MAP IS APPROVED FOR THE VILLAGE OF FOX POINT

SIGNATURE: _____ DATE: 9/12/2023

PRINT NAME: CHRISTINE SYMCHYCH, VILLAGE PRESIDENT

FILE NAME : 210250_RW_EXHIBITS.DWG PLOT DATE : 10/18/2023 4:20 PM R/W PROJECT: R/W PROJ NO

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY.
REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

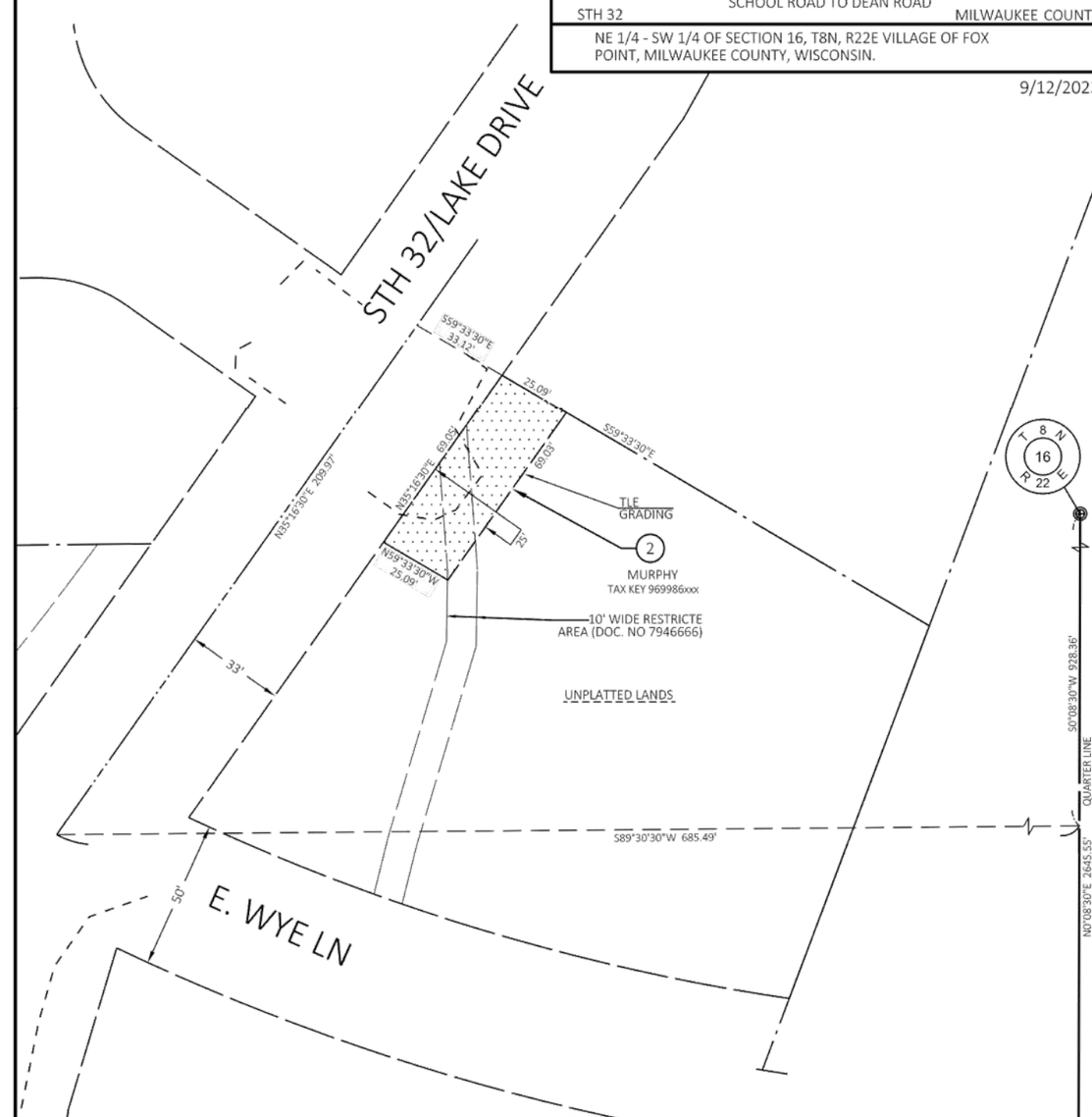
R/W PROJECT NUMBER: 2225-00-23	SHEET NUMBER: 4.02

TLE ACQUISITION EXHIBIT
STH 32 - VILLAGE OF FOX POINT
SCHOOL ROAD TO DEAN ROAD
STH 32 MILWAUKEE COUNTY

NE 1/4 - SW 1/4 OF SECTION 16, T8N, R22E VILLAGE OF FOX POINT, MILWAUKEE COUNTY, WISCONSIN.

9/12/2023

4



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNERS()	INTEREST REQUIRED	PLE S.F.	TLE S.F.
2	JOHN T. & AMY E. MURPHY TRUST	TLE		1726

UTILITY INTERESTS REQUIRED

FILE NAME : 210250_RW_EXHIBITS.DWG PLOT DATE : 10/18/2023 4:20 PM R/W PROJECT: R/W PROJ NO

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY.
REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

R/W PROJECT NUMBER: 2225-00-23	SHEET NUMBER: 4.03

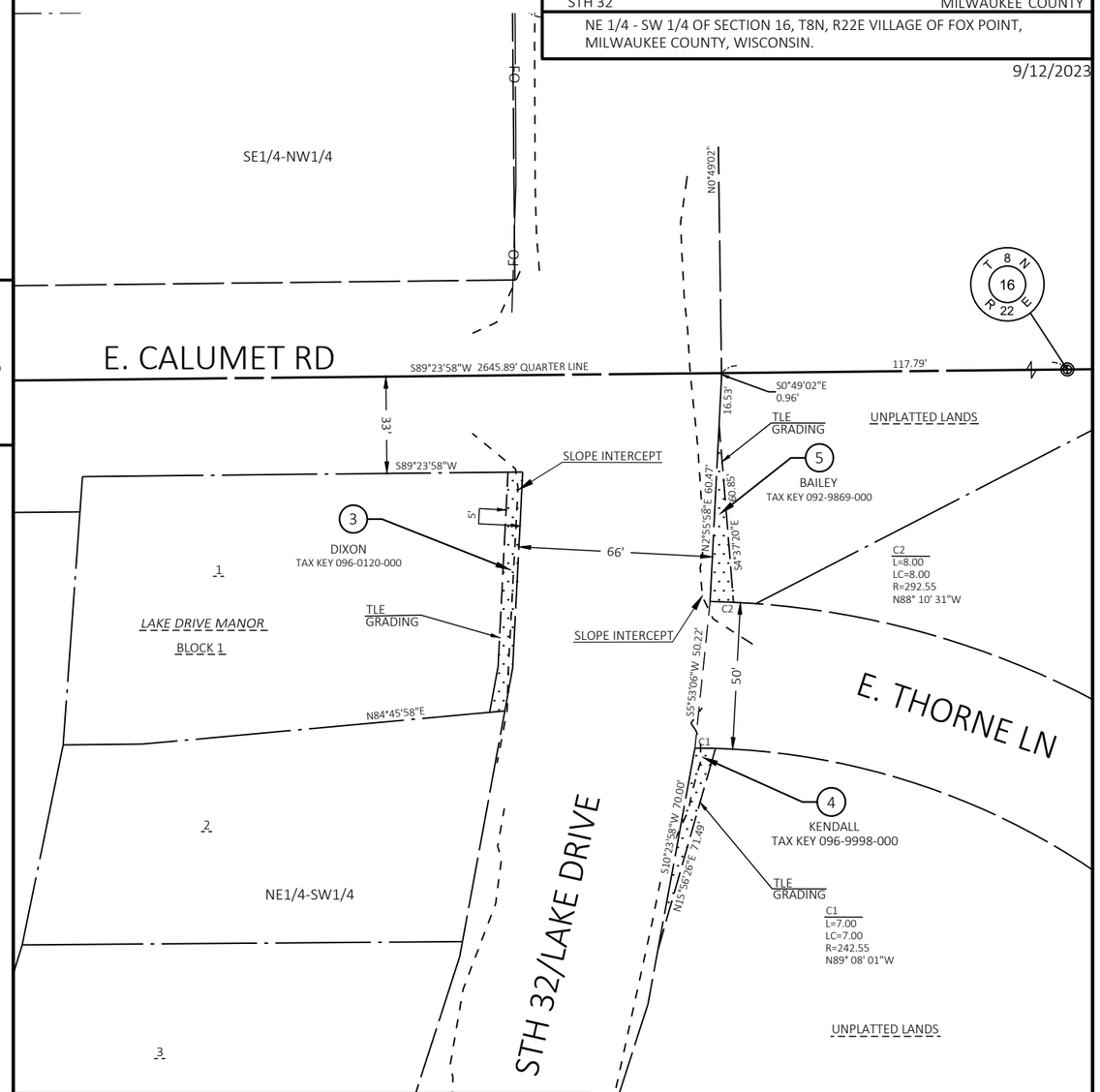
TLE ACQUISITION EXHIBIT
STH 32 - VILLAGE OF FOX POINT
SCHOOL ROAD TO DEAN ROAD

STH 32 — MILWAUKEE COUNTY

NE 1/4 - SW 1/4 OF SECTION 16, T8N, R22E VILLAGE OF FOX POINT, MILWAUKEE COUNTY, WISCONSIN.

9/12/2023

4



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNERS()	INTEREST REQUIRED	PLE S.F.	TLE S.F.
3	DARIAN T. DIXON & SUZANNE M. DIXON	TLE		415
4	JOHN C. KENDALL	TLE		242
5	SEAN BAILEY & TIFFANY BAILEY	TLE		242

UTILITY INTERESTS REQUIRED

R/W PROJECT NUMBER: 2225-00-23	SHEET NUMBER: 4.04

TLE ACQUISITION EXHIBIT
STH 32 - VILLAGE OF FOX POINT
SCHOOL ROAD TO DEAN ROAD

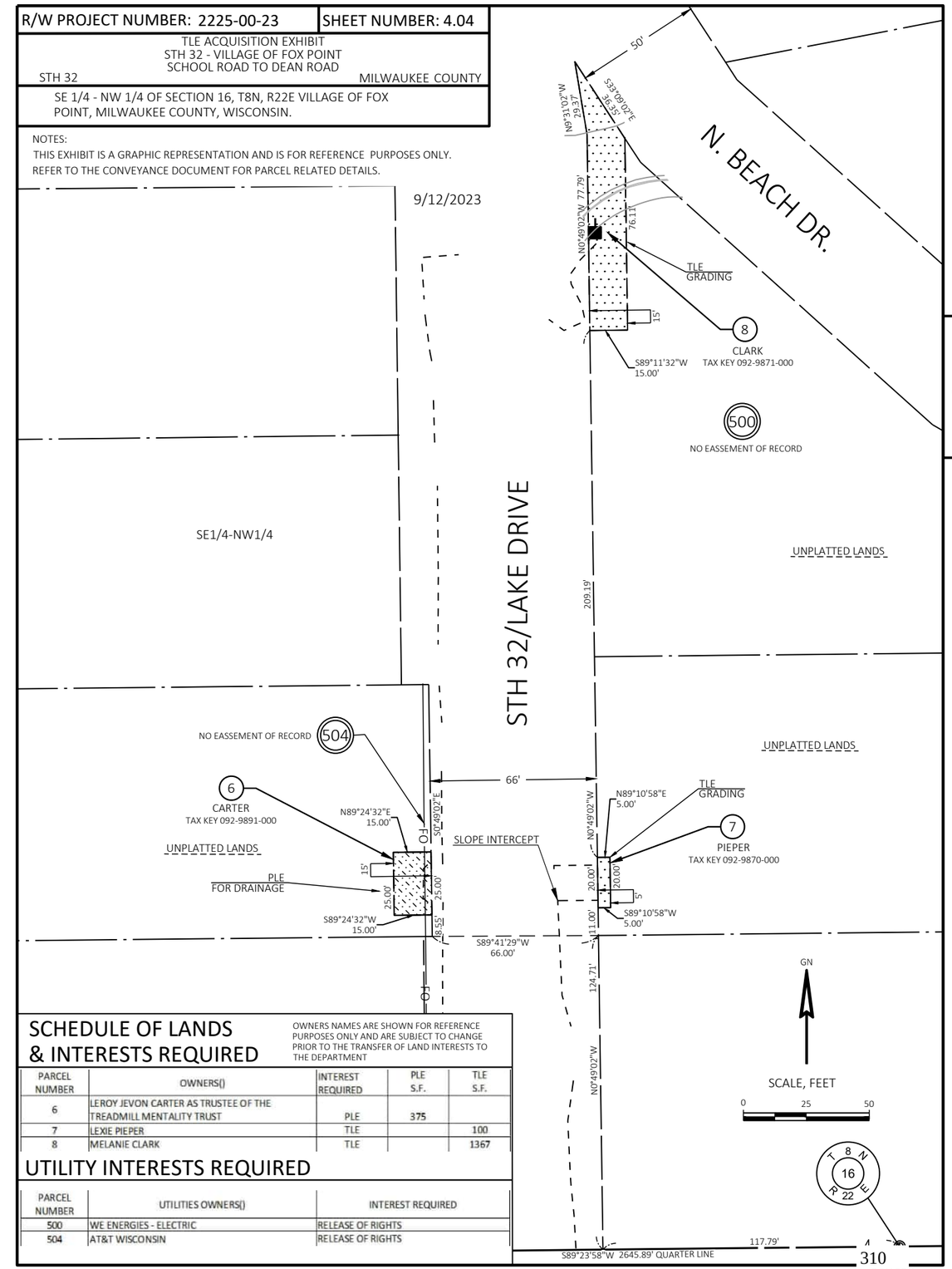
STH 32 — MILWAUKEE COUNTY

SE 1/4 - NW 1/4 OF SECTION 16, T8N, R22E VILLAGE OF FOX POINT, MILWAUKEE COUNTY, WISCONSIN.

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY.
REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

9/12/2023

4



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNERS()	INTEREST REQUIRED	PLE S.F.	TLE S.F.
6	LEROY JEVON CARTER AS TRUSTEE OF THE TREADMILL MENTALITY TRUST	PLE	375	
7	LEXIE PIEPER	TLE		100
8	MELANIE CLARK	TLE		1367

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	UTILITIES OWNERS()	INTEREST REQUIRED
500	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
504	AT&T WISCONSIN	RELEASE OF RIGHTS

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY.
REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

R/W PROJECT NUMBER: 2225-00-23 | SHEET NUMBER: 4.05

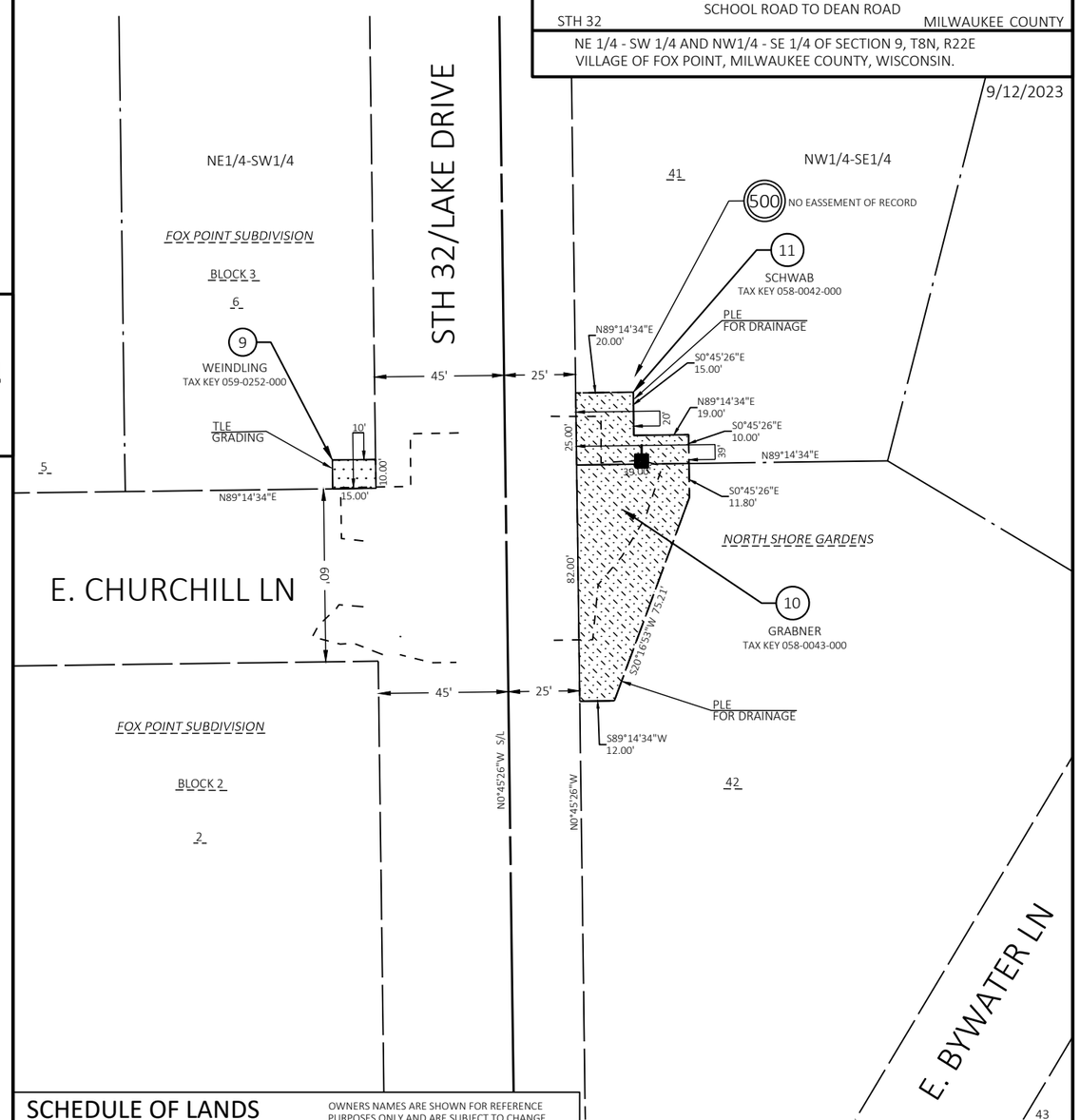
TLE ACQUISITION EXHIBIT
STH 32 - VILLAGE OF FOX POINT
SCHOOL ROAD TO DEAN ROAD

STH 32 MILWAUKEE COUNTY

NE 1/4 - SW 1/4 AND NW1/4 - SE 1/4 OF SECTION 9, T8N, R22E
VILLAGE OF FOX POINT, MILWAUKEE COUNTY, WISCONSIN.

9/12/2023

4



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNERS()	INTEREST REQUIRED	PLE S.F.	TLE S.F.
9	HOWARD K. & PAMELA A WEINDLING	TLE		150
10	BRADLEY J. KILLAM & MICHELLE A. GRABNER	PLE	2250	
11	RICHARD L. & KATHY C. SCHWAB	PLE	690	

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	UTILITIES OWNERS()	INTEREST REQUIRED
500	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY.
REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

R/W PROJECT NUMBER: 2225-00-23 | SHEET NUMBER: 4.06

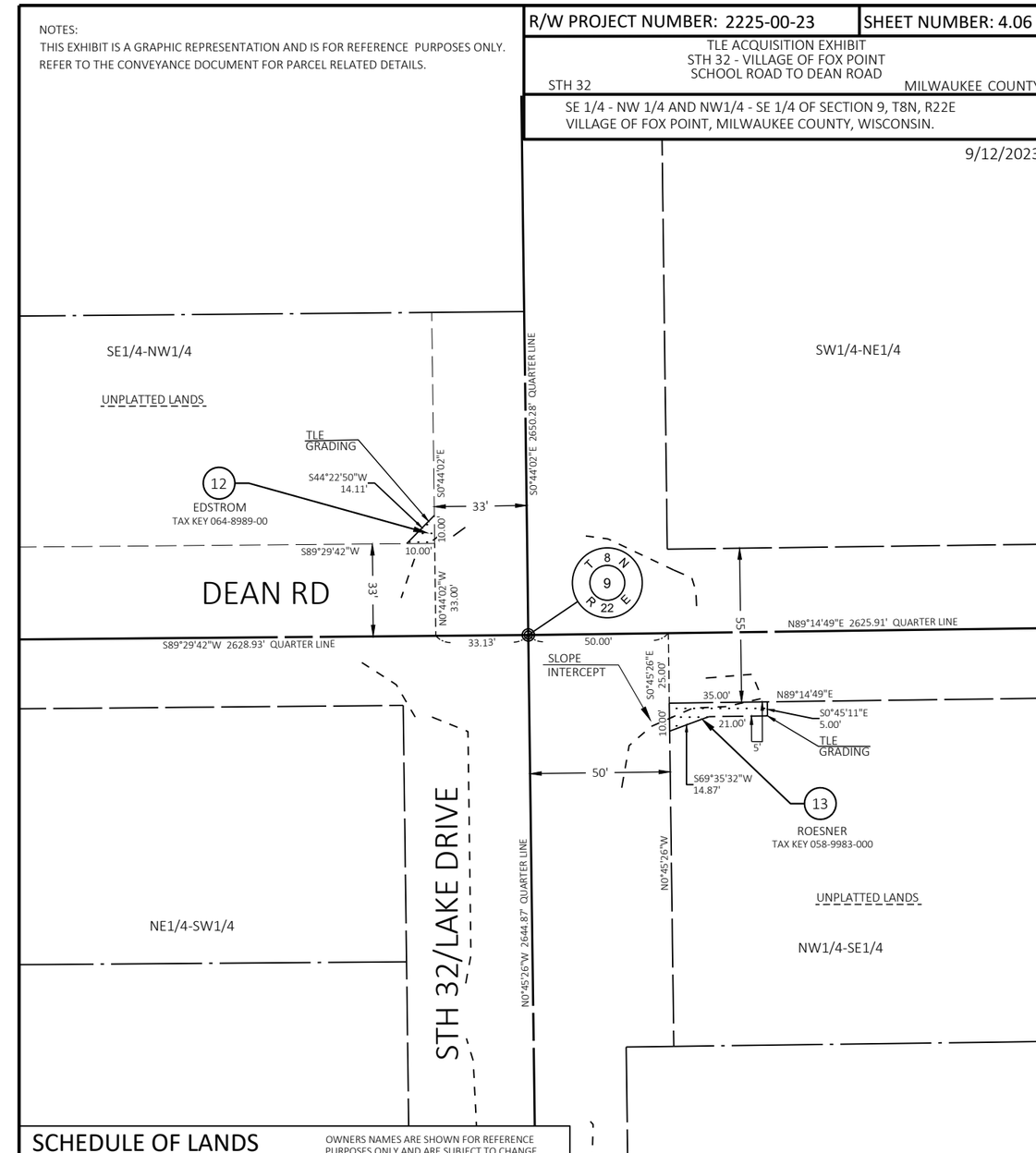
TLE ACQUISITION EXHIBIT
STH 32 - VILLAGE OF FOX POINT
SCHOOL ROAD TO DEAN ROAD

STH 32 MILWAUKEE COUNTY

SE 1/4 - NW 1/4 AND NW1/4 - SE 1/4 OF SECTION 9, T8N, R22E
VILLAGE OF FOX POINT, MILWAUKEE COUNTY, WISCONSIN.

9/12/2023

4

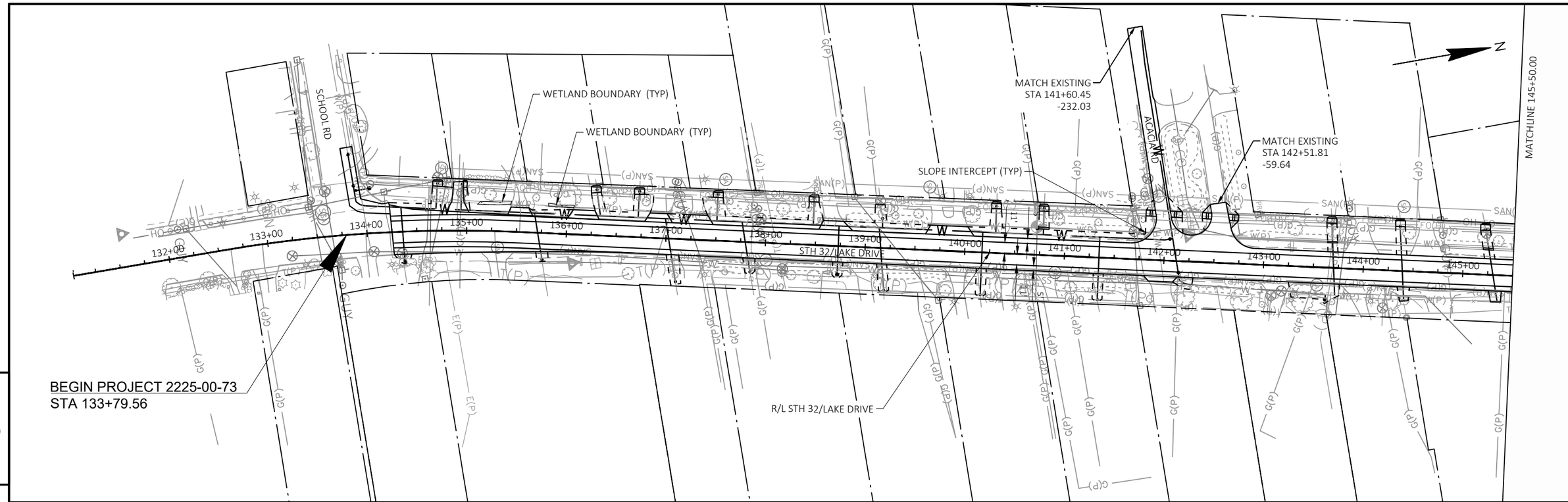


SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

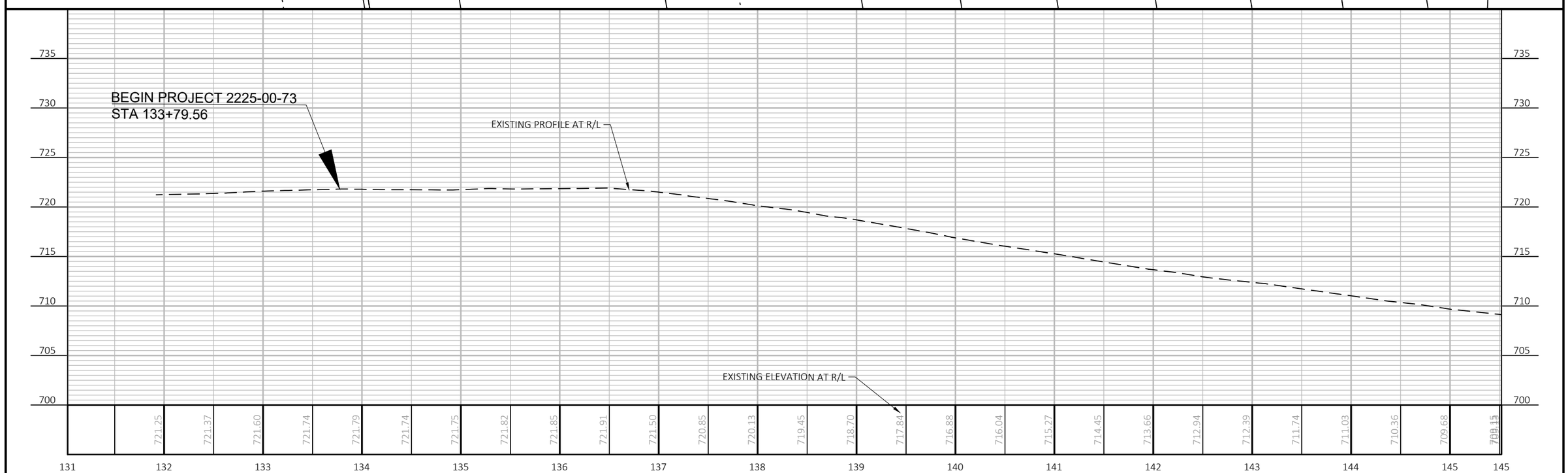
PARCEL NUMBER	OWNERS()	INTEREST REQUIRED	PLE S.F.	TLE S.F.
12	WILLIAM E. EDSTROM, JR & MARI EDSTROM	TLE		50
13	JOHN R. ROESNER JR & DEBORAH H. ROESNER	TLE		210

UTILITY INTERESTS REQUIRED

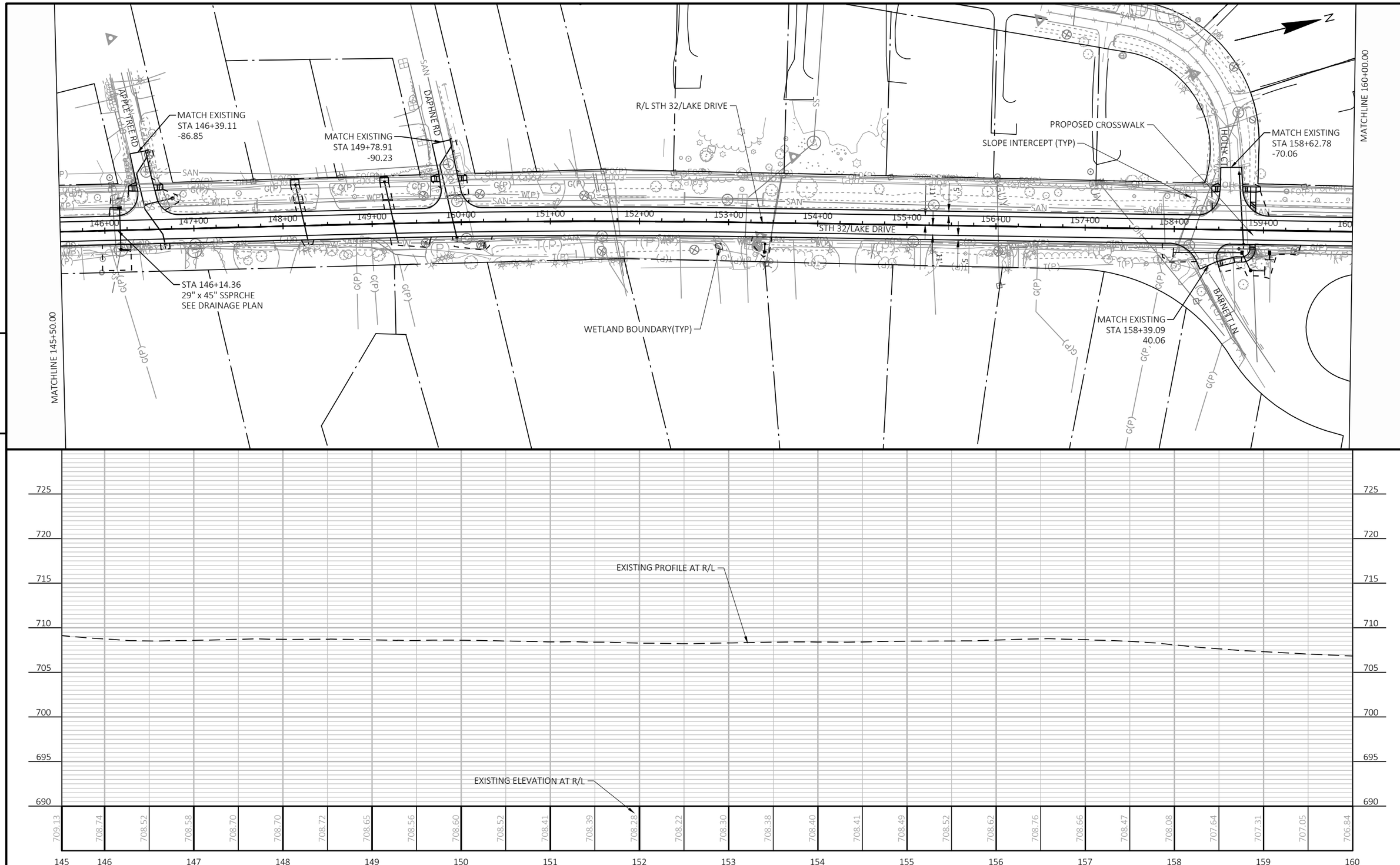


5

5

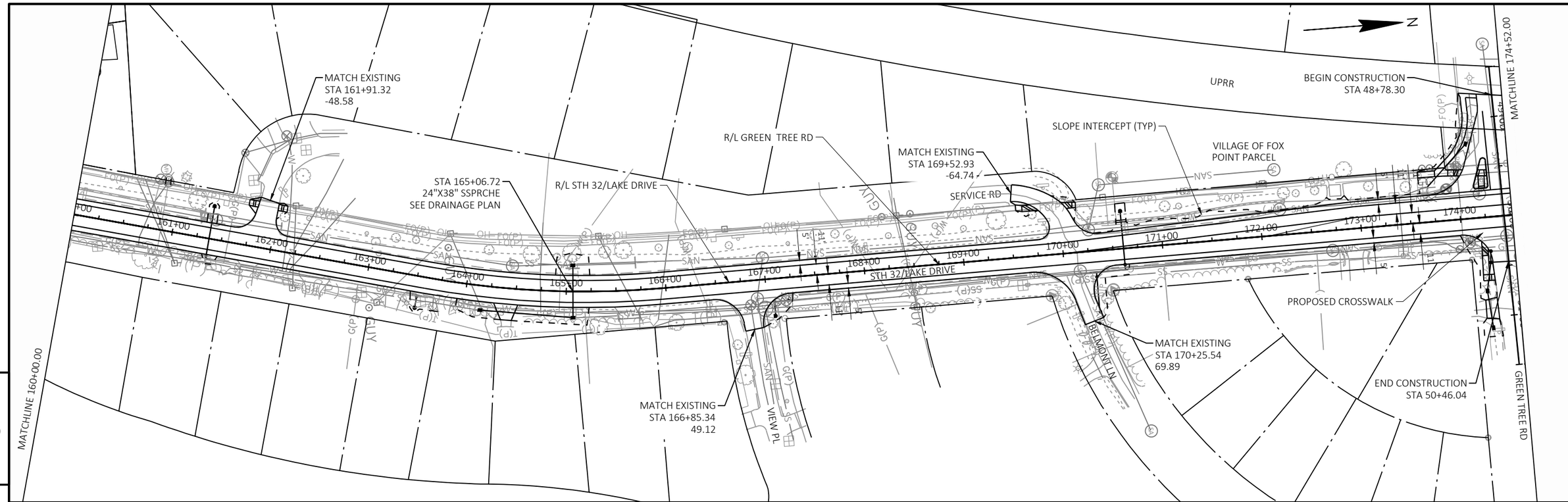


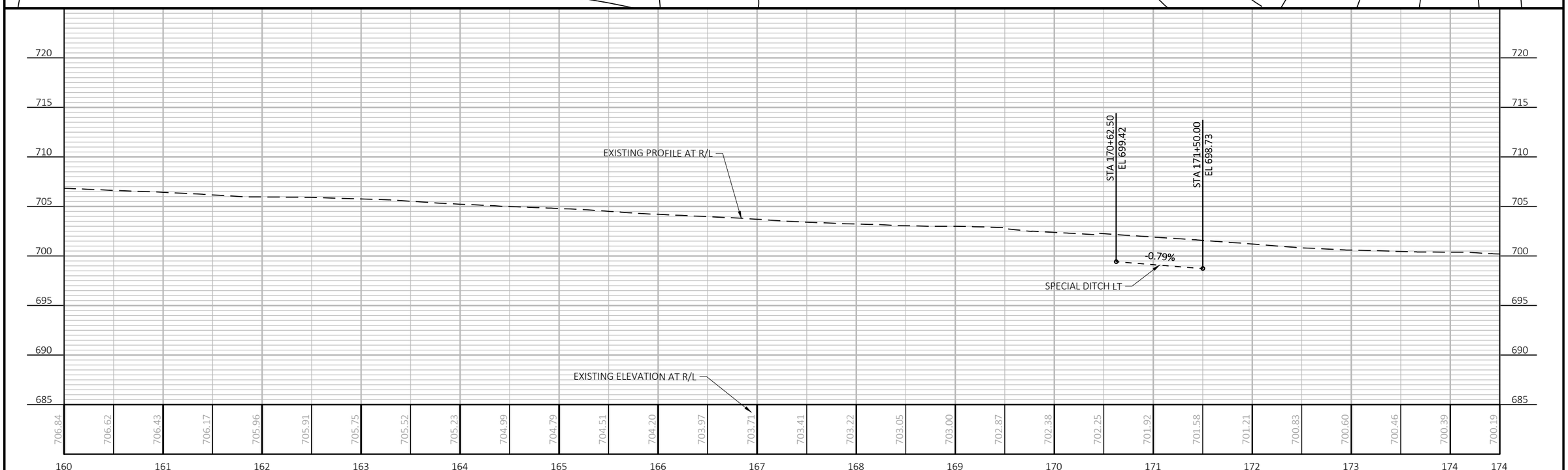
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PLAN AND PROFILE: STH 32	SHEET 312	E



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PLAN AND PROFILE: STH 32	SHEET 313	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - PP - (2)
PLOT DATE : 10/15/2024 7:39 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

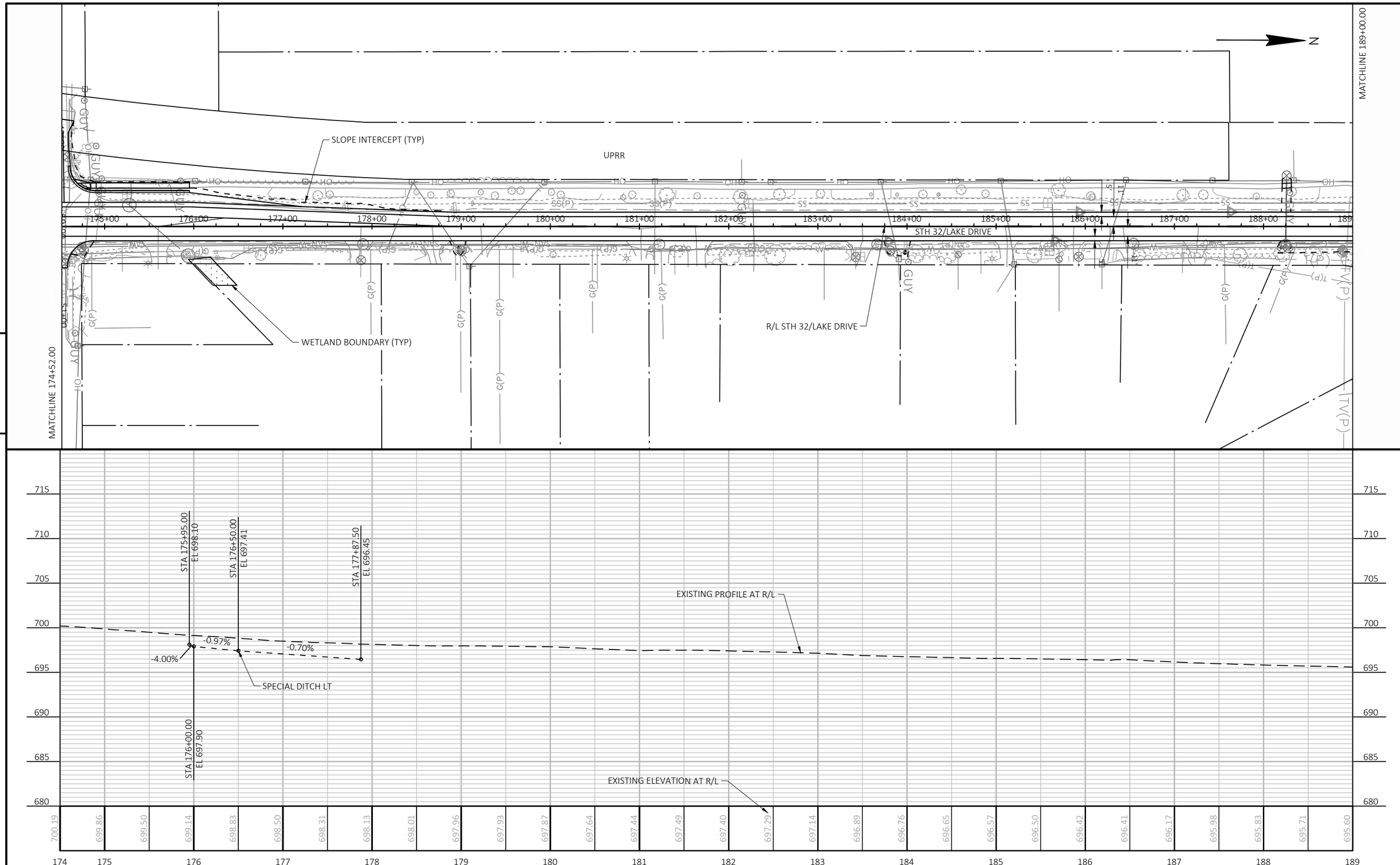




PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PLAN AND PROFILE: STH 32	SHEET 314	E

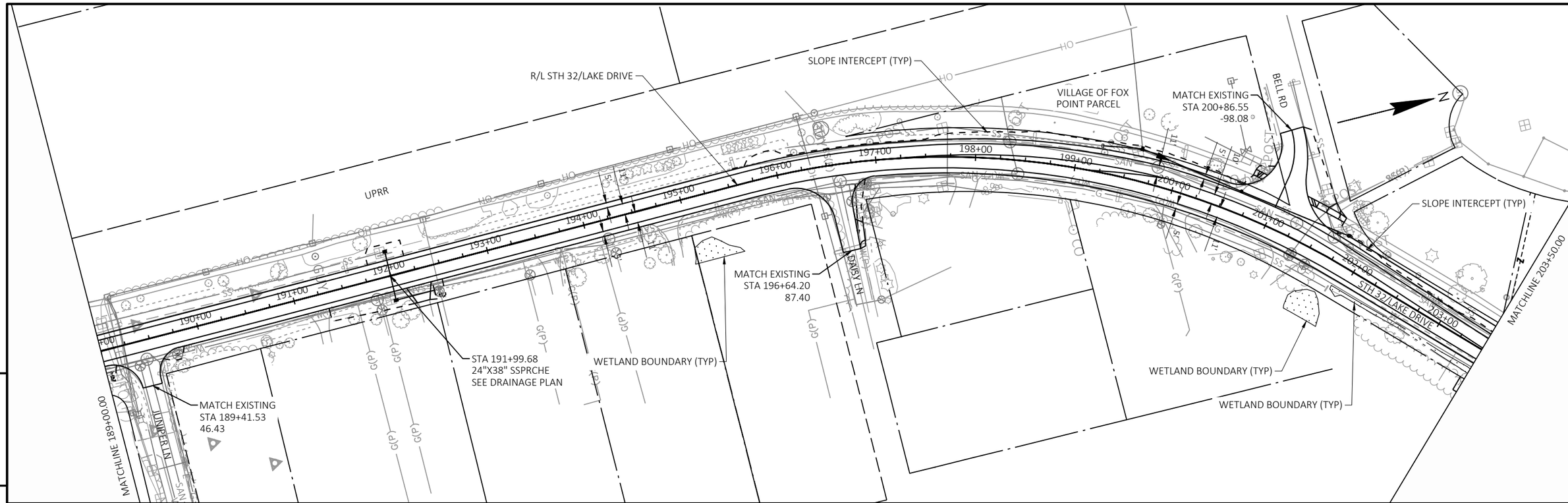
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - PP - (3)
PLOT DATE : 10/15/2024 7:40 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

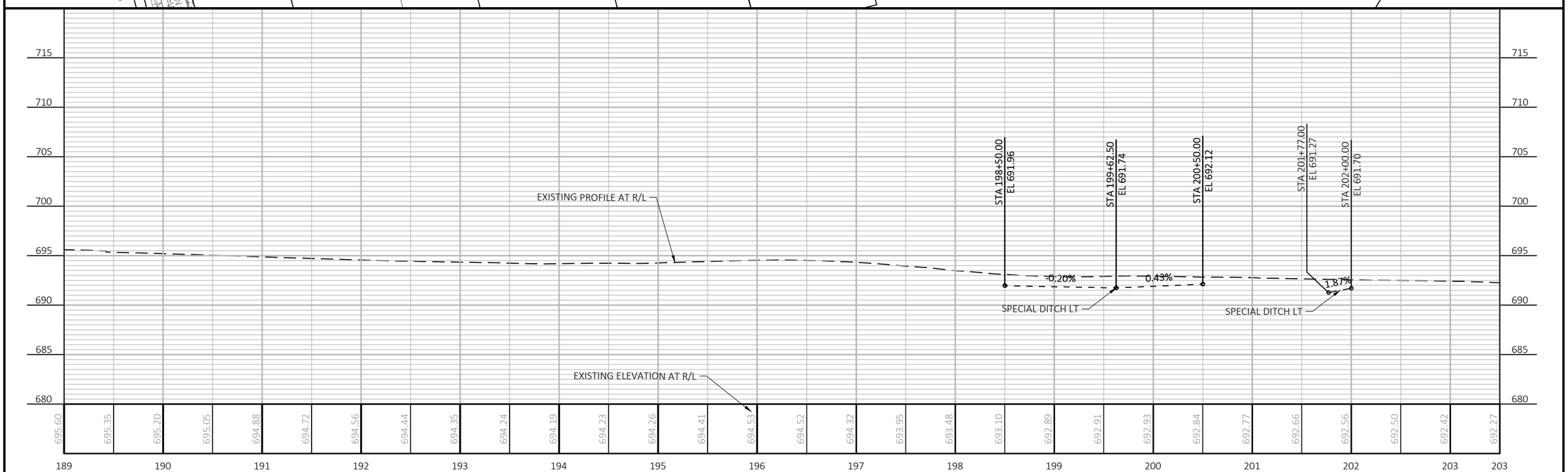
WISDOT/CADDS SHEET 44



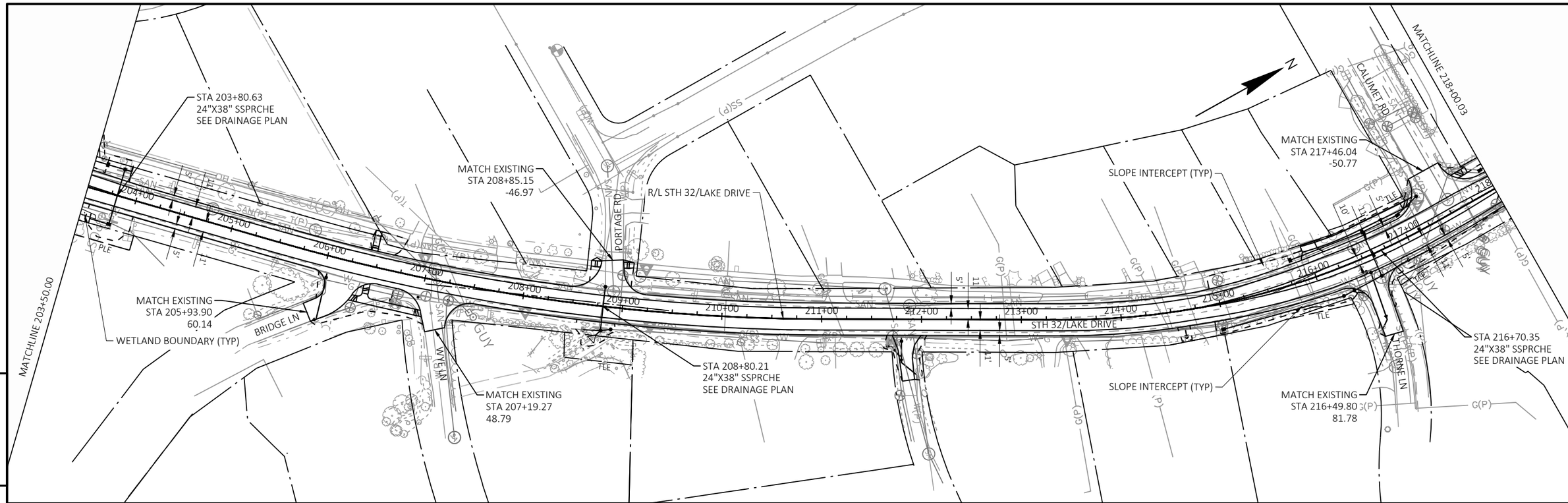
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PLAN AND PROFILE: STH 32	SHEET 315	E

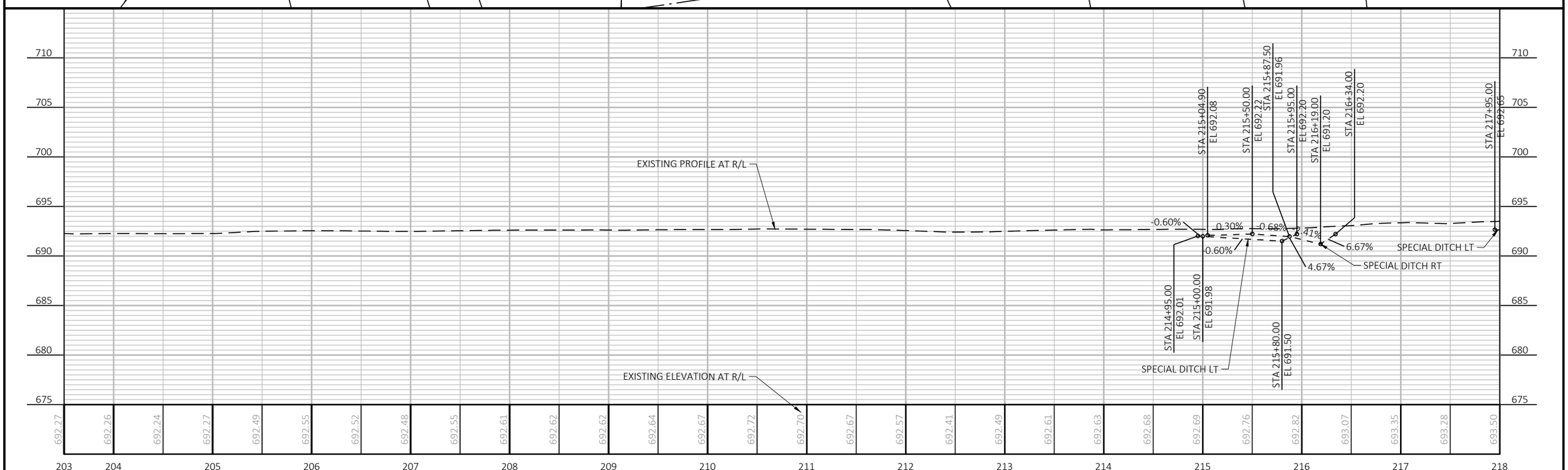
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - PP - (4)
PLOT DATE : 10/15/2024 7:40 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44





PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PLAN AND PROFILE: STH 32	SHEET 316	E

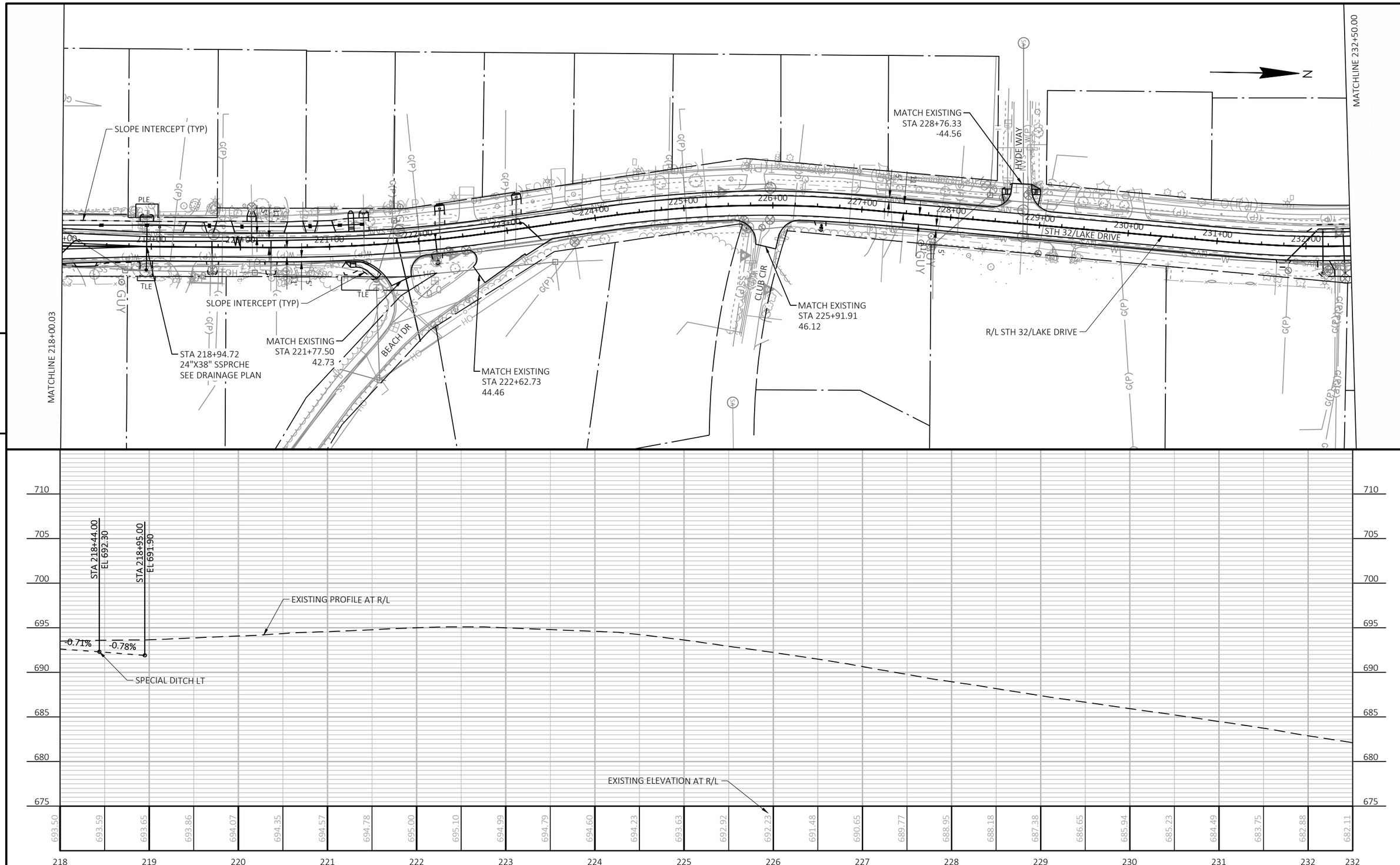




PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PLAN AND PROFILE: STH 32	SHEET 317	E

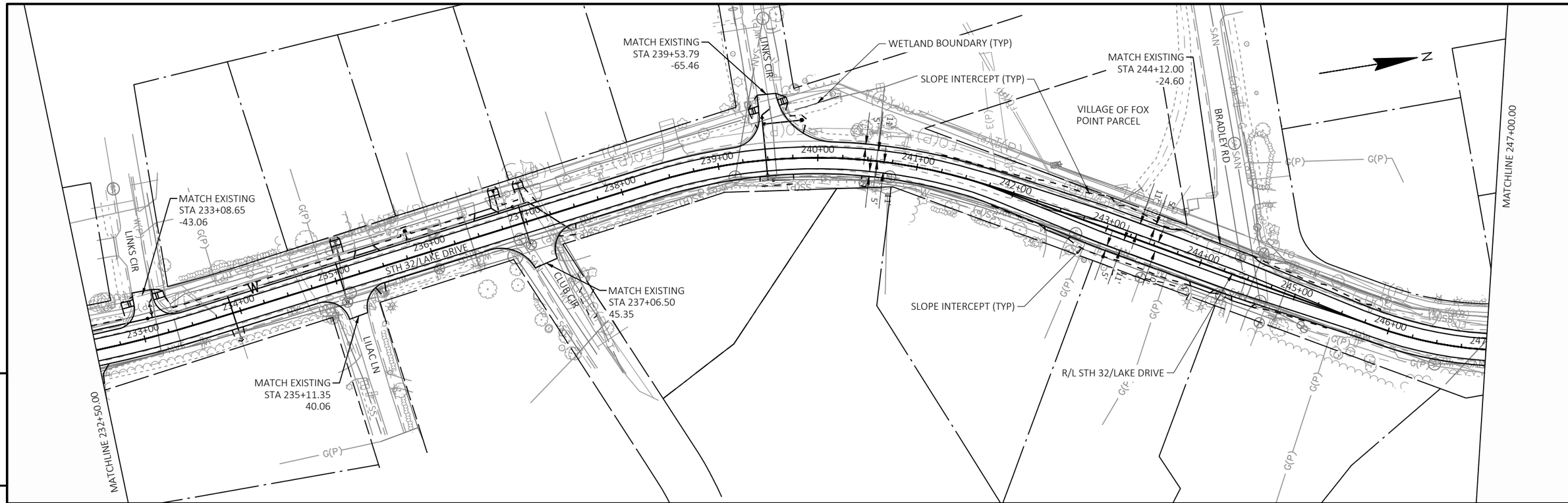
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - PP - (6)
PLOT DATE : 10/15/2024 10:48 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

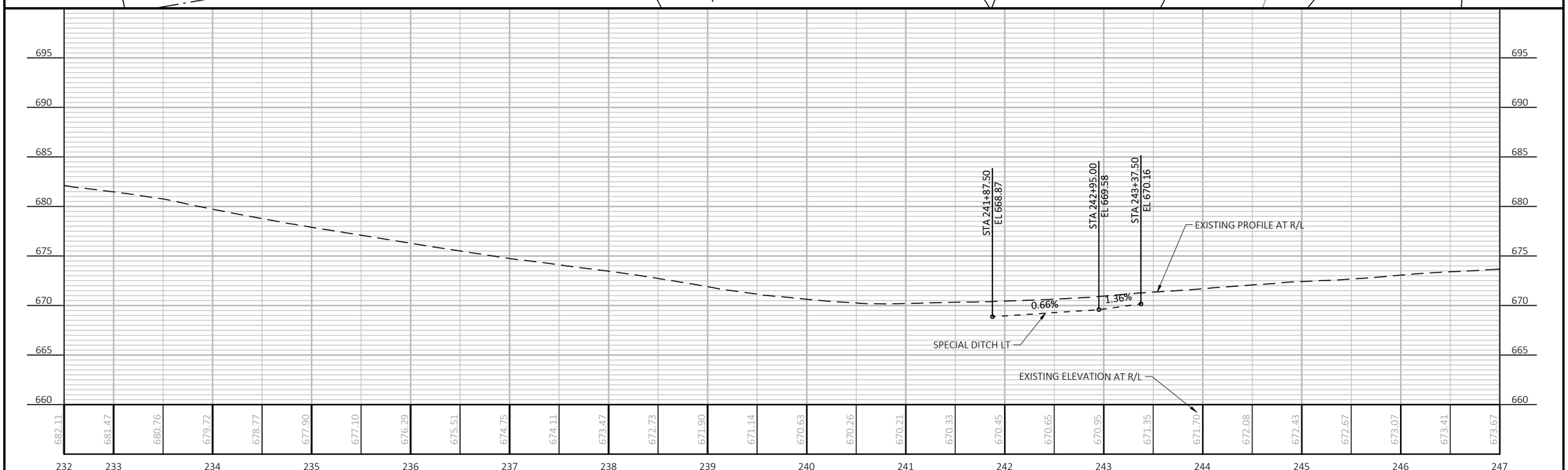
WISDOT/CADDS SHEET 44



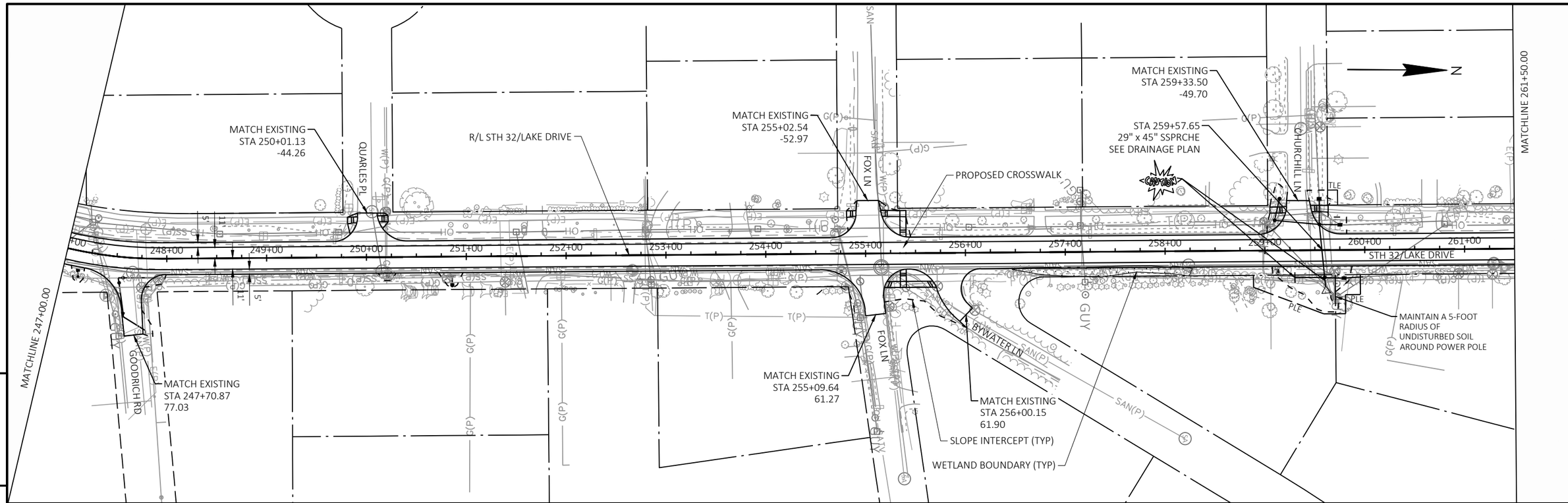
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PLAN AND PROFILE: STH 32	SHEET 318	E

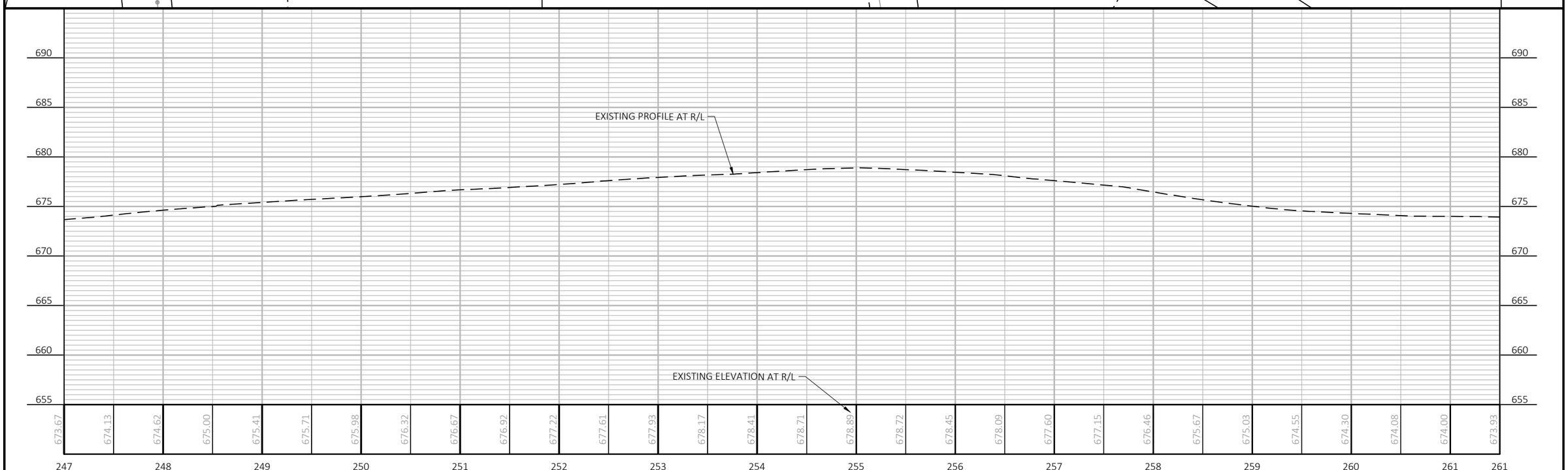
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - PP - (7)
PLOT DATE : 10/15/2024 7:40 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44





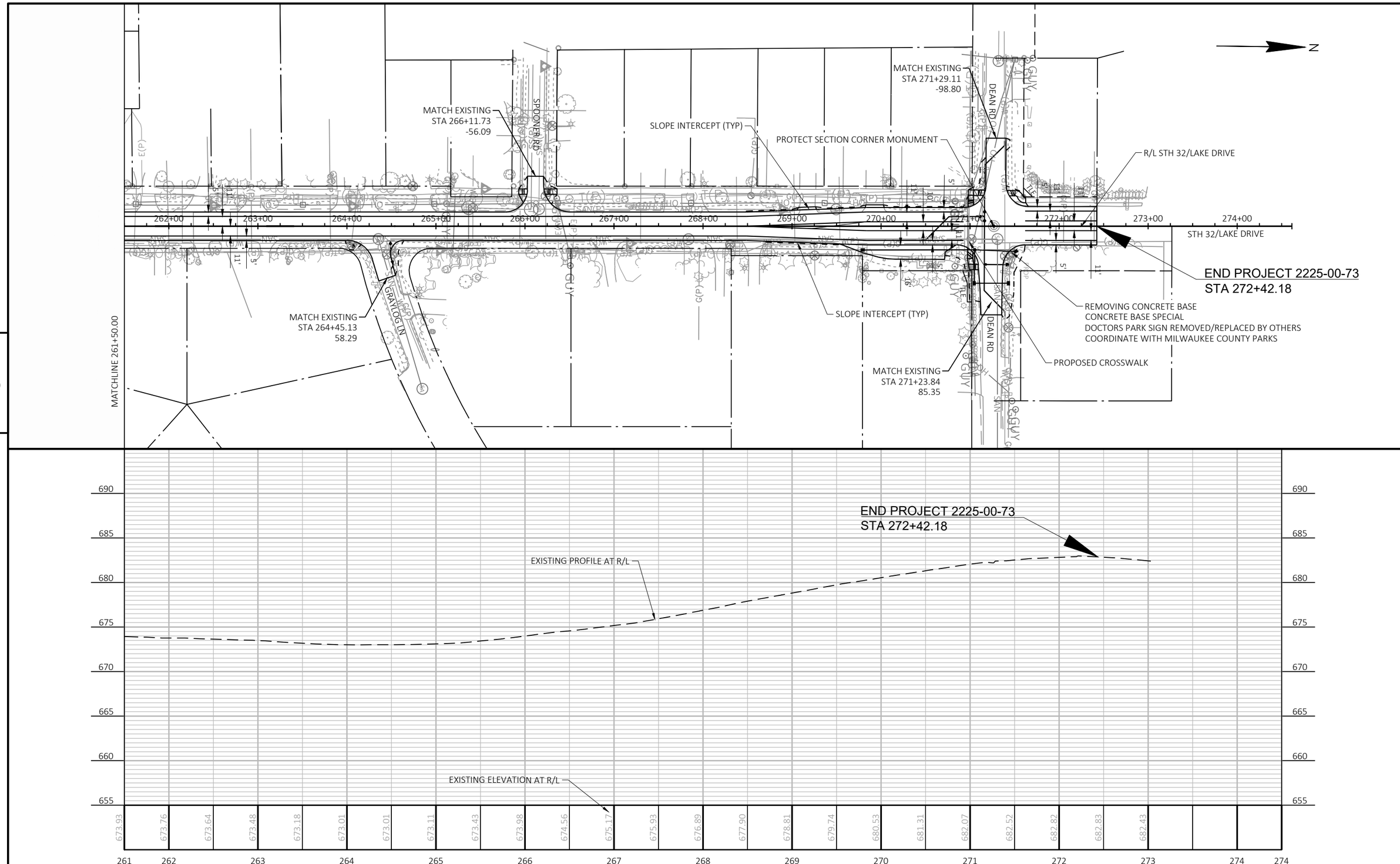
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PLAN AND PROFILE: STH 32	SHEET 319	E





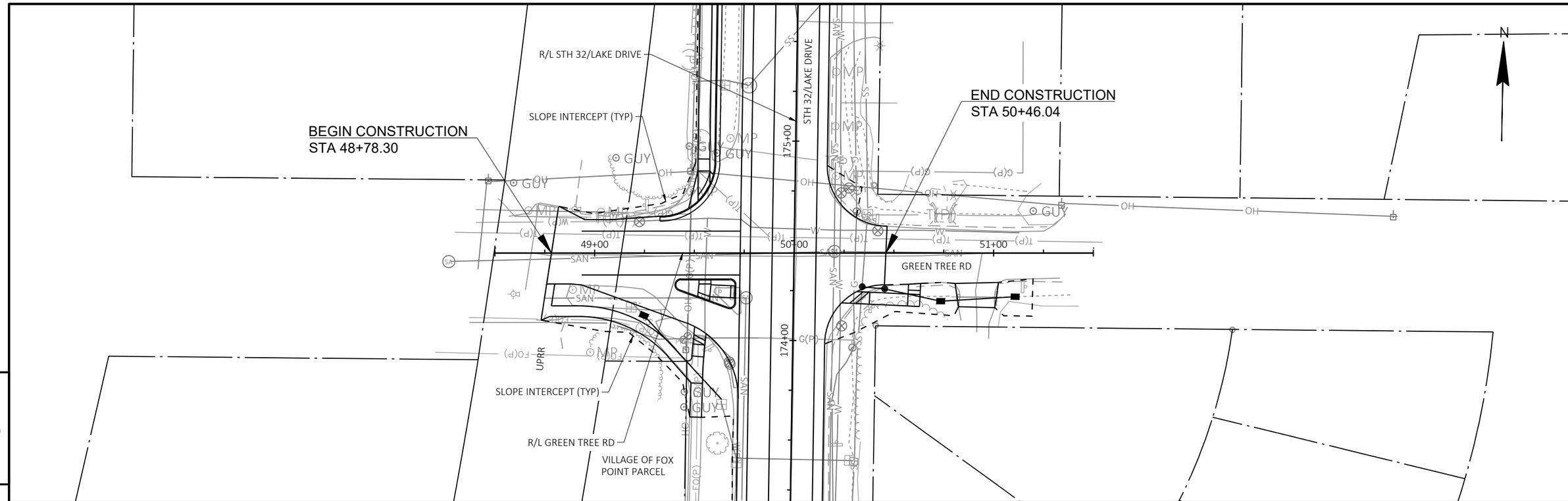
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PLAN AND PROFILE: STH 32	SHEET 320	E

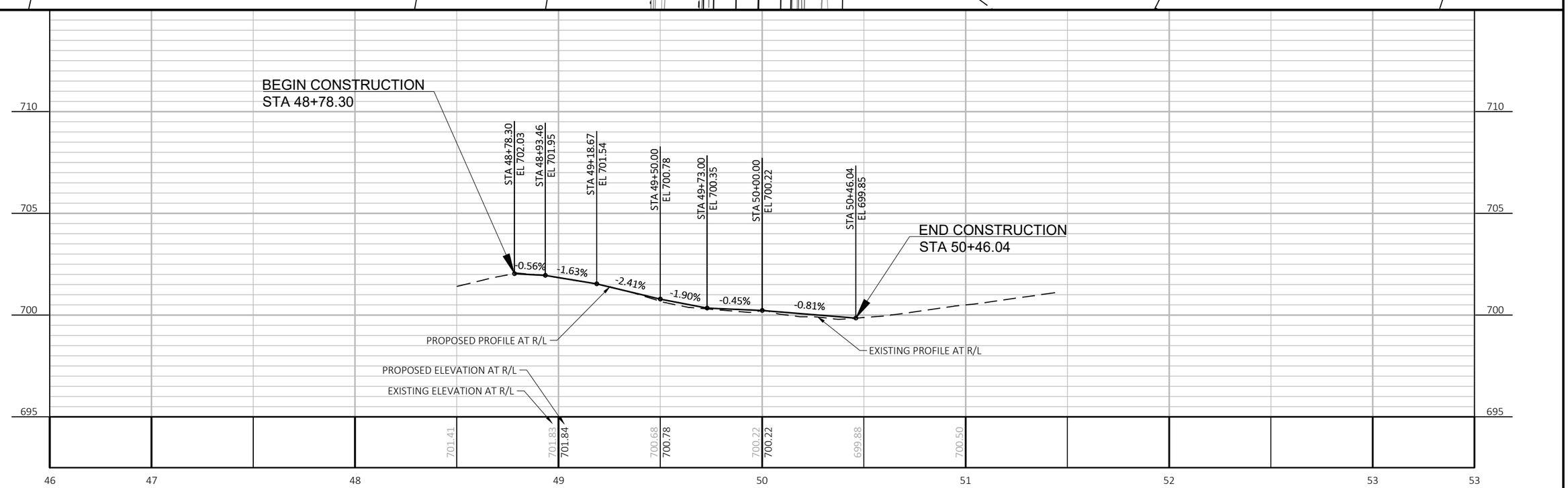
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - PP - (9)
PLOT DATE : 10/15/2024 7:40 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PLAN AND PROFILE: STH 32	SHEET 321	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - PP - (10)
PLOT DATE : 11/20/2024 7:00 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44





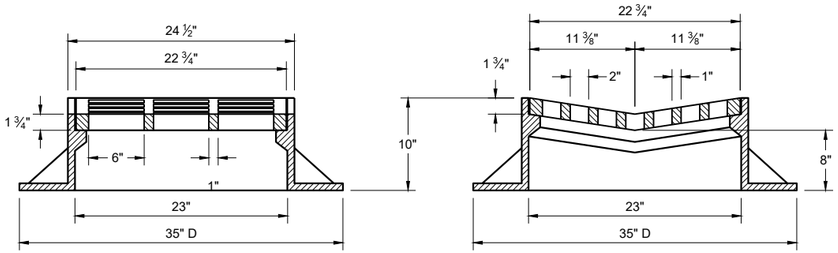
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	PLAN AND PROFILE: GREEN TREE RD	SHEET 322	E

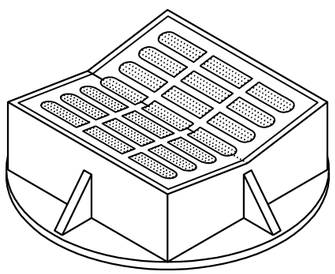
FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\SHEETSPLAN\050210-PP.DWG
LAYOUT NAME - PP - (1)
PLOT DATE : 10/15/2024 7:41 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

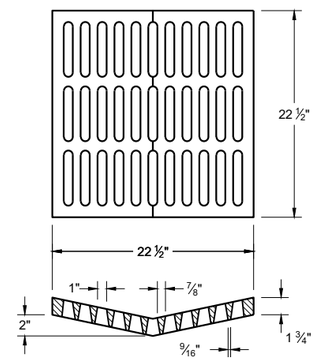
Standard Detail Drawing List

08A05-21B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-21E	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-04	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08B10-03	MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT
08C06-03	INLETS 3-FT AND 4-FT DIAMETER
08C08-03	INLETS MEDIAN 1 AND 2 GRATE
08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-21A	CURB RAMPS TYPES 1 AND 1-A
08D05-21B	CURB RAMPS TYPES 2 AND 3
08D05-21C	CURB RAMPS TYPES 4A AND 4A1
08D05-21D	CURB RAMPS TYPE 4B AND 4B1
08D05-21E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-21F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-21G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
13C19-03	HMA LONGITUDINAL JOINTS
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-09H	MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-15C	PAVEMENT MARKING ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23C	PAVEMENT MARKING (TURN LANES)
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C09-13A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-09A	MEDIAN ISLAND MARKINGS
15C18-09C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15D30-09A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09B	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09E	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09K	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09L	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL

6





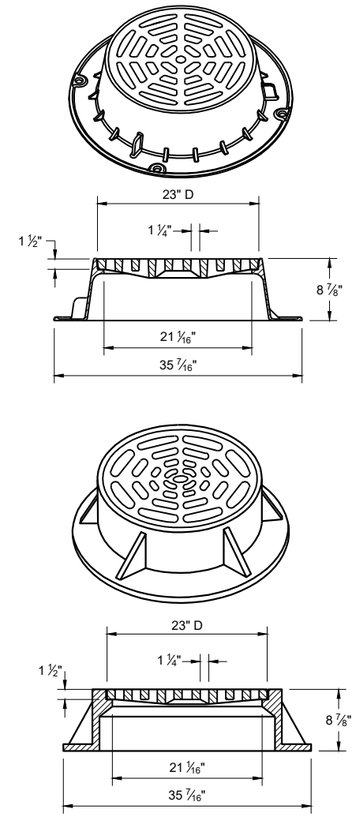


TYPE "B"

ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS POSSIBLE

NOTED AS TYPE B - A ON THE DRAINAGE TABLE



TYPE "C"

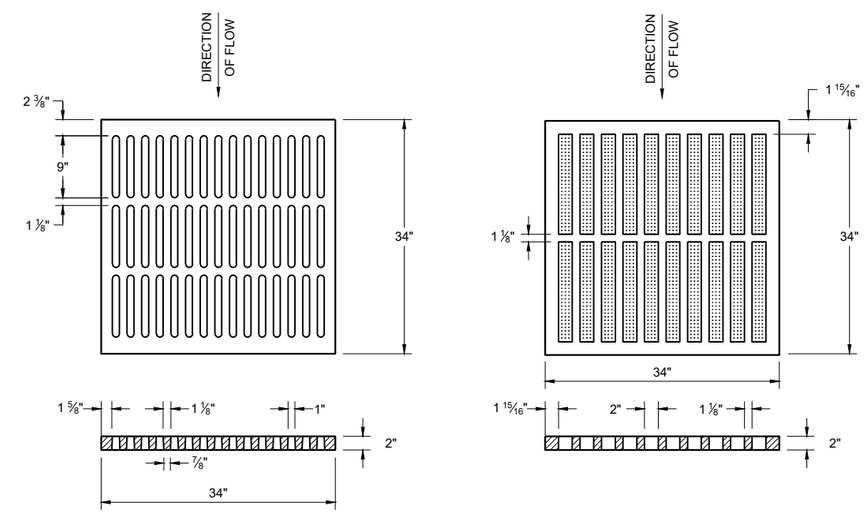
NOTE: EITHER CASTING IS ACCEPTABLE

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"

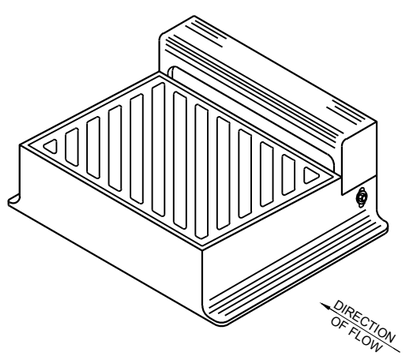
USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS PERMITTED

NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

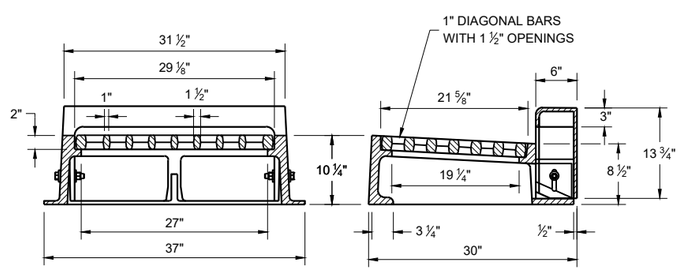
TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON THE DRAINAGE TABLE



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



TYPE "WM"

NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

INLET COVERS
TYPES B, B-A, C,
MS, MS-A AND WM

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SDD 08A05-21b

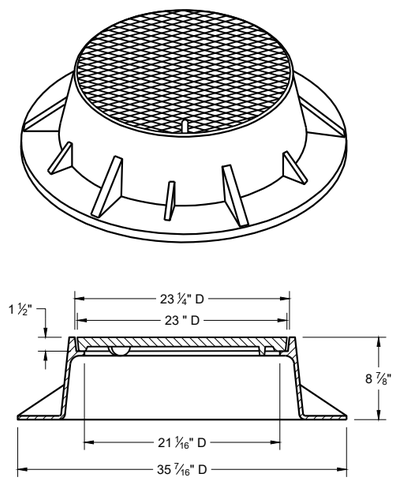
SDD 08A05-21b

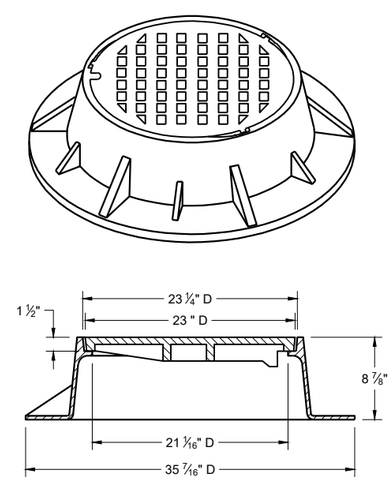
GENERAL NOTES

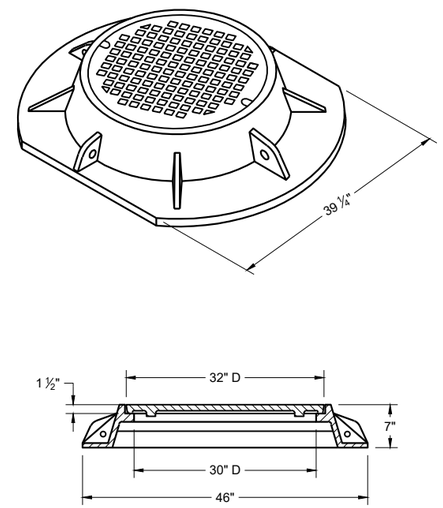
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

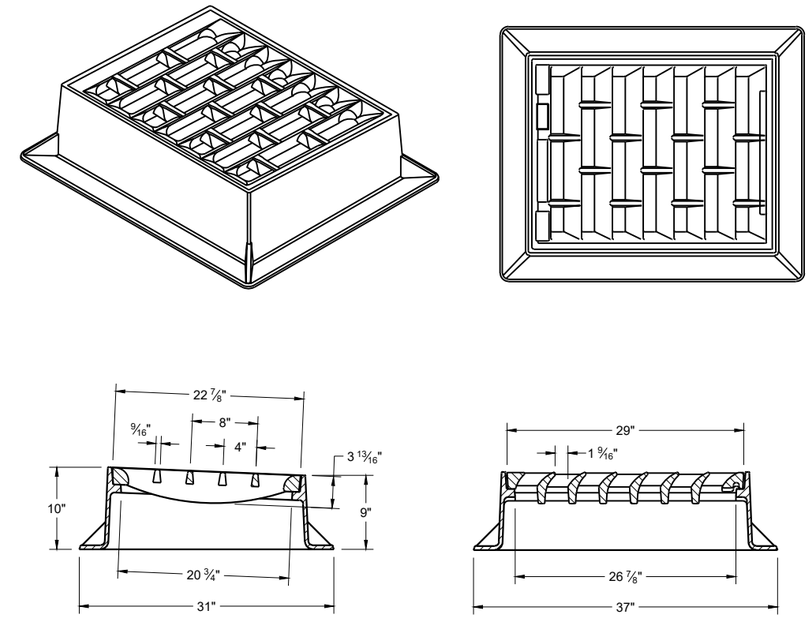
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



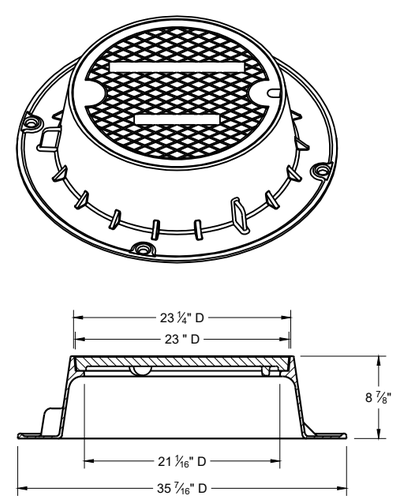




TYPE "K"

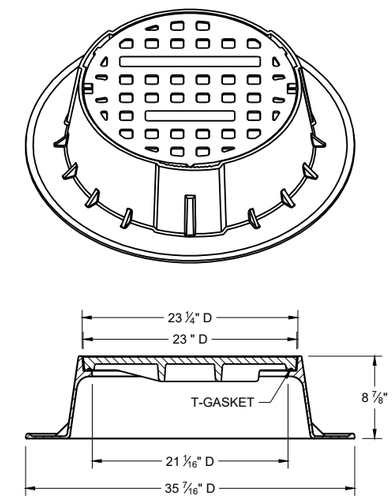


INLET COVER TYPE "BW"



TYPE "J"

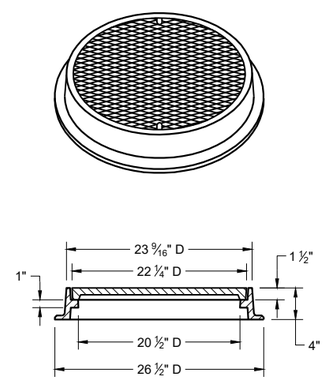
NOTE: EITHER CASTING IS ACCEPTABLE



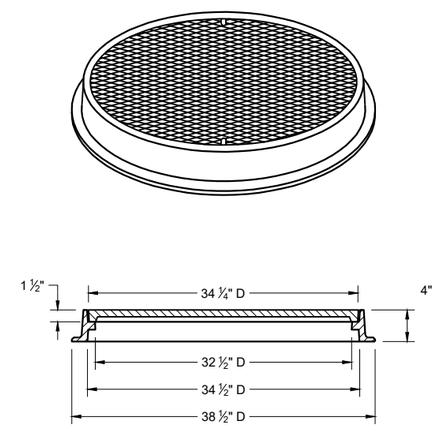
TYPE "J" SPECIAL

TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

NOTE: EITHER CASTING IS ACCEPTABLE



TYPE "L"



TYPE "M"

INLET COVERS TYPES BW
MANHOLE COVERS TYPES K, J, J-S, L, AND M

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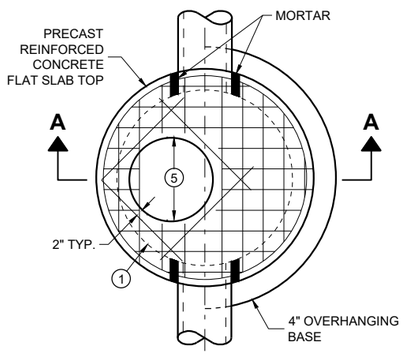
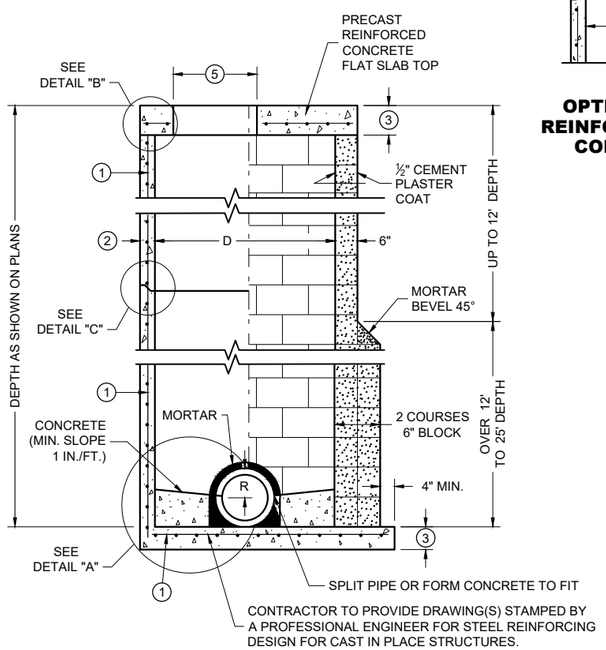


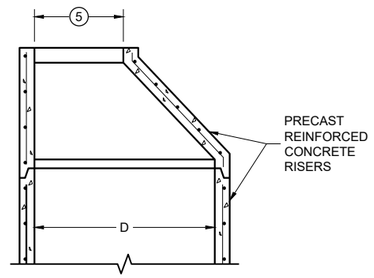
PLAN VIEW
CIRCULAR OPENING



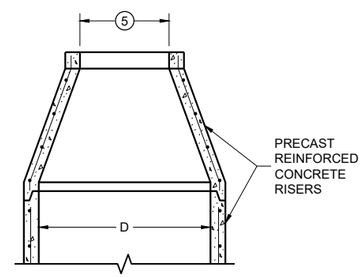
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

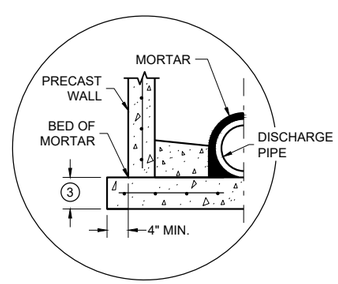
MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) (5) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

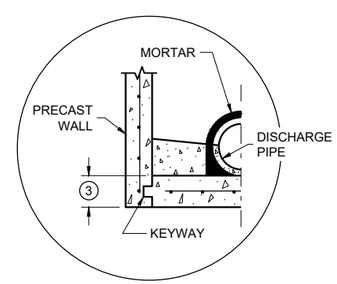
PIPE MATRIX

MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42*	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES. SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.

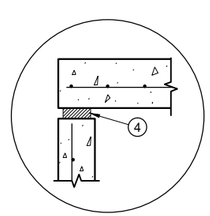


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

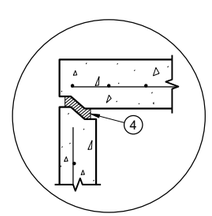


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

DETAIL "A"

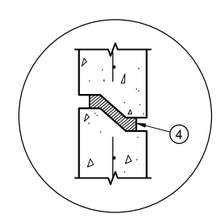


TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT

DETAIL "B"



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "C"

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL IMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

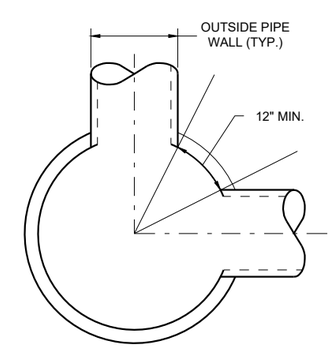
(1) FOR PRECAST MANHOLES AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(2) SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES

(3) SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.

(4) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.

(5) SEE MANHOLE COVER OPENING MATRIX.



MINIMUM HORIZONTAL PIPE SEPARATION

DETAIL "D"

MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

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MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

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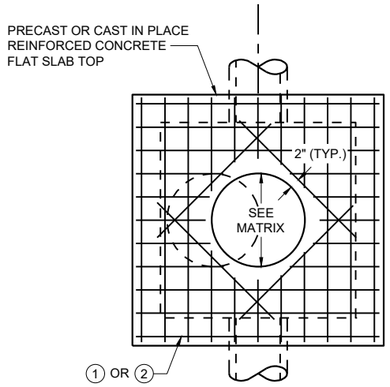
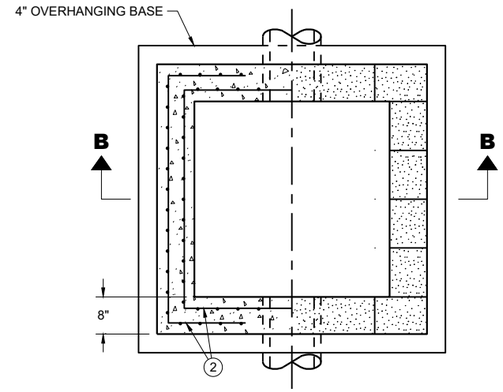
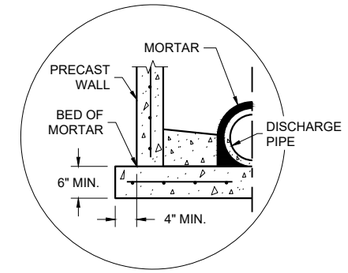
SDD 08B09-04



PLAN VIEW
CIRCULAR OPENING

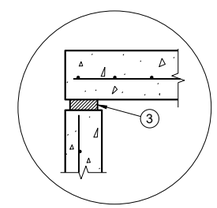


SECTION A - A
PLAN VIEW

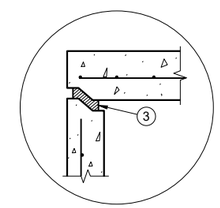


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

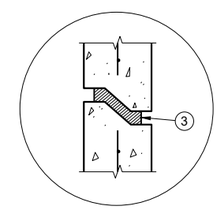


TOP WITH PLAIN END JOINT



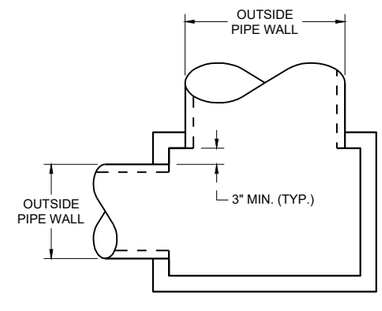
TOP WITH TONGUE AND GROOVE JOINT

DETAIL "B"



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "C"



DETAIL "D"

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C913.

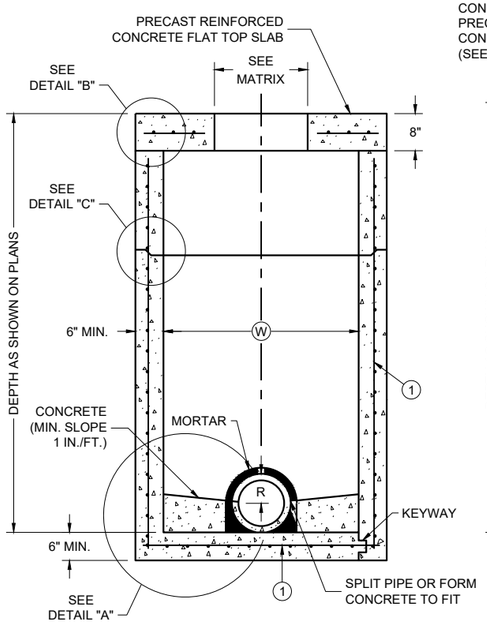
PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN WIDTH.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

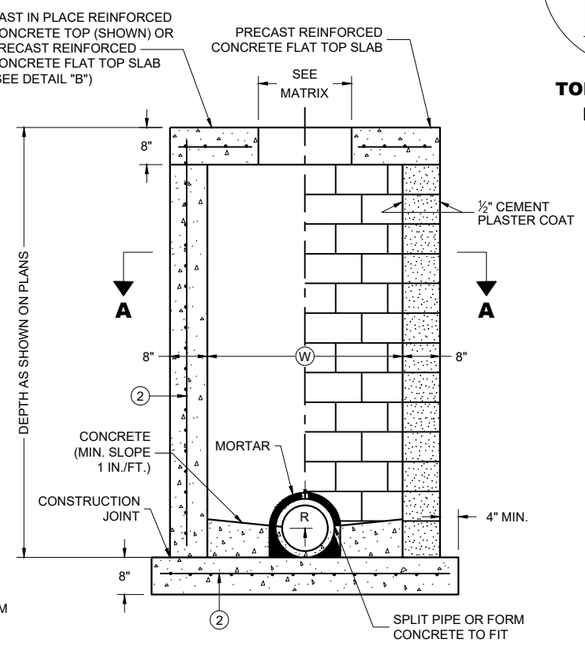
MAXIMUM PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "D". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

1. FOR PRECAST MANHOLES AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
2. CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGNFOR CAST-IN-PLACE STRUCTURES.
3. JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP.)



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE



SECTION B-B

CAST IN PLACE REINFORCED CONCRETE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)

SQUARE MANHOLES WITH FLAT TOP

MANHOLES 3 X 3-FT, 4 X 4 -FT, 5 X 5-FT AND 6 X 6-FT

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT.)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE WxW-FT	MAXIMUM INSIDE PIPE DIAMETER (IN)
3 X 3 FT	24
4 X 4 FT	30
5 X 5 FT	42
6 X 6 FT	54

MANHOLES
3 X 3 -FT, 4 X 4-FT
5 X 5-FT AND 6 X 6-FT

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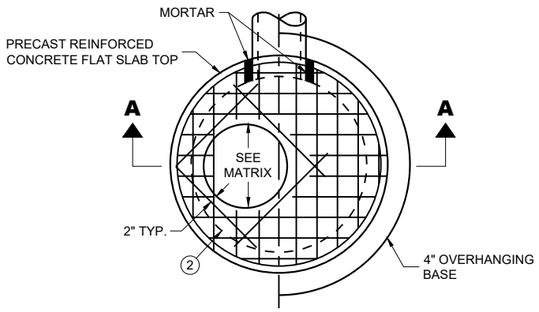
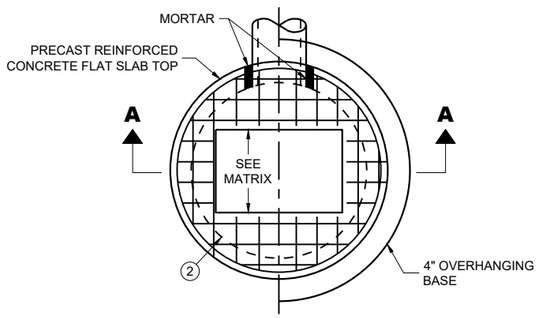
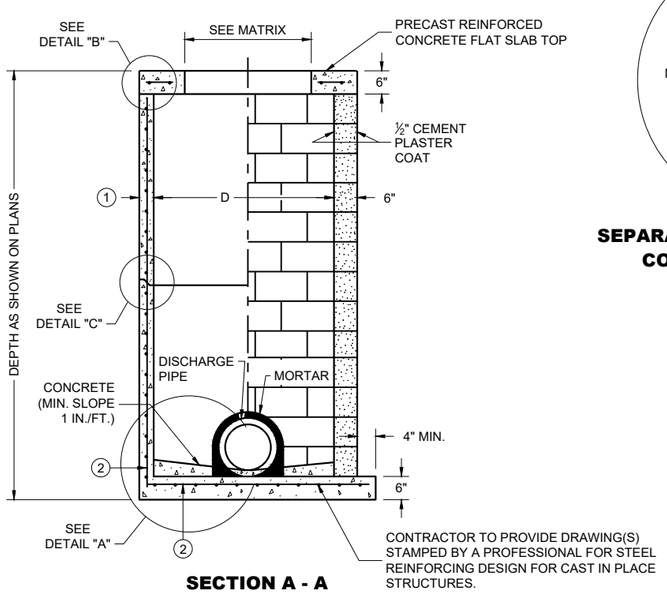


PLAN VIEW CIRCULAR OPENING



PLAN VIEW RECTANGULAR OPENING



SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (2)

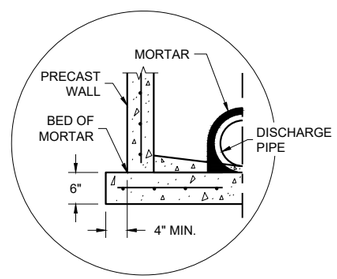
CIRCULAR INLETS WITH FLAT TOP

CATCH BASIN COVER OPENING MATRIX

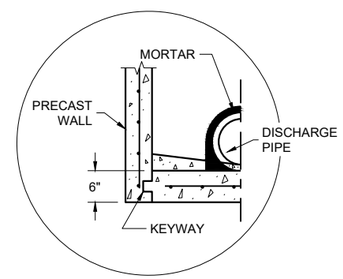
INLET SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT.)											
3-FT	2 DIA.				X							X
	2 X 2	X	X					X		X		
4-FT	2 DIA.				X							X
	2 X 2	X	X					X		X		
	2 X 2.5			X				X	X	X	X	
	2 X 3						X					
	2.5 X 3					X						

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

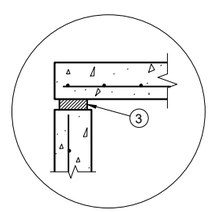


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

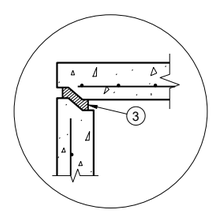


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

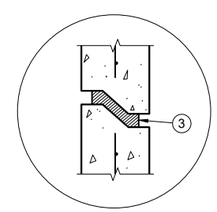
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

DETAIL "C"

INLETS 3-FT AND 4-FT DIAMETER

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

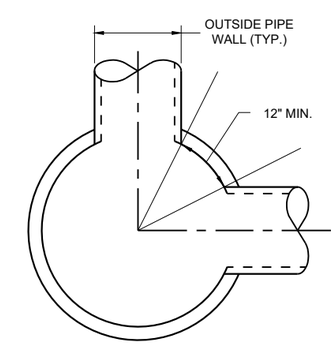
4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

(1) MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT DIAMETER AND 5 INCHES FOR 4-FT DIAMTER PRECAST INLETS.

(2) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(3) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.



MINIMUM HORIZONTAL PIPE SEPARATION

DETAIL "D"

INLETS 3-FT AND 4-FT DIAMETER

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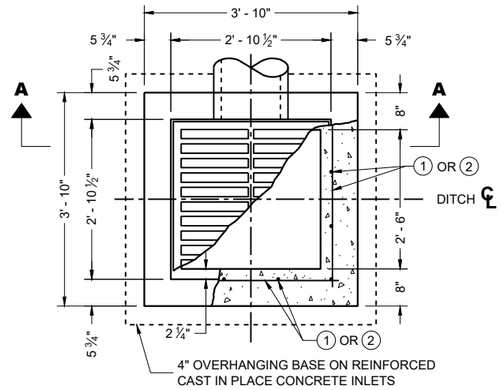
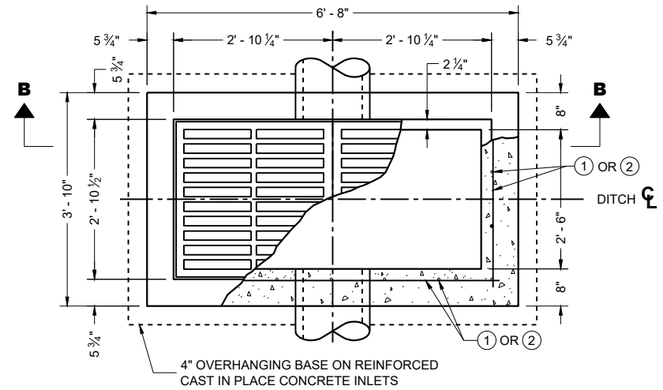
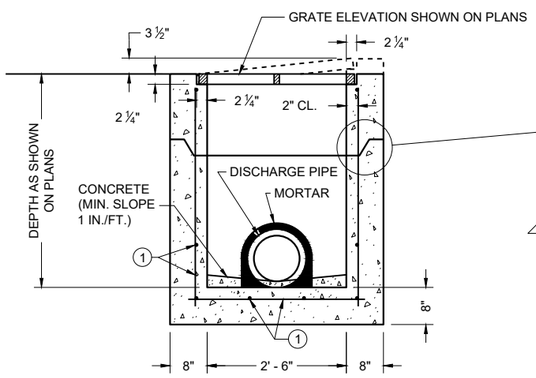


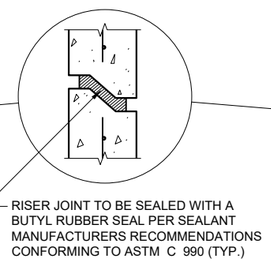
PLAN VIEW

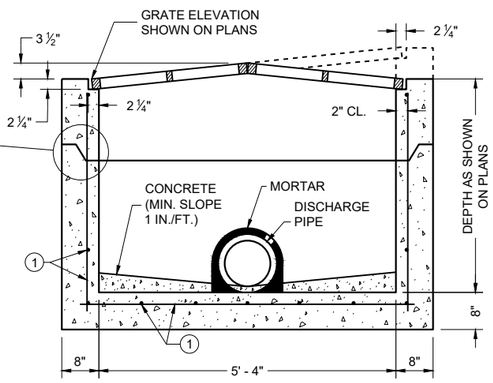


PLAN VIEW



PRECAST REINFORCED CONCRETE SECTION A - A





PRECAST REINFORCED CONCRETE SECTION B - B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP N0T SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

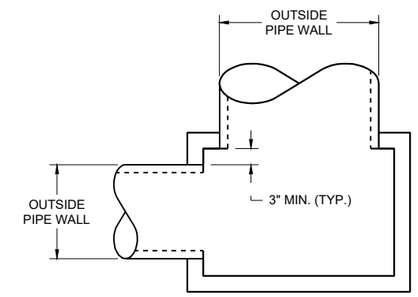
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

1 FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

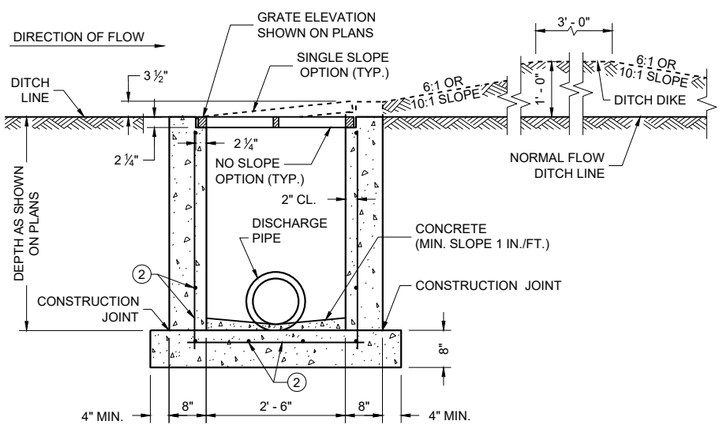
2 CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.



DETAIL "A"

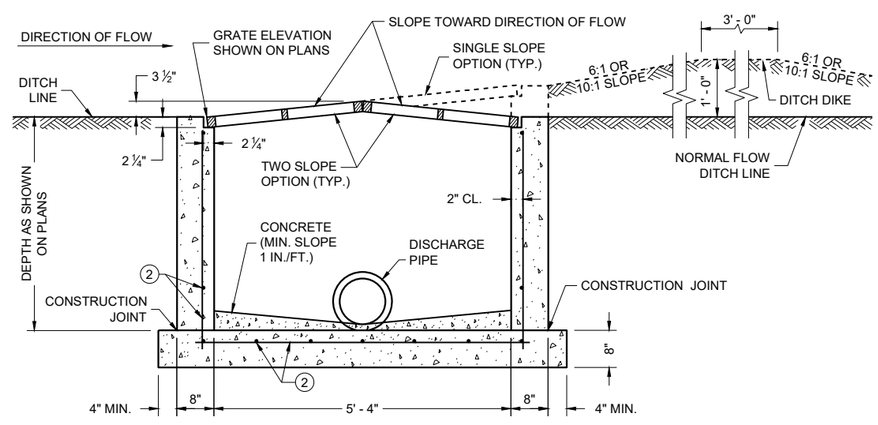
PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



REINFORCED CAST IN PLACE CONCRETE SECTION A - A

INLETS MEDIAN 1 GRATE



REINFORCED CAST IN PLACE CONCRETE SECTION B - B

INLETS MEDIAN 2 GRATE

INLETS
MEDIAN 1 AND 2 GRATE

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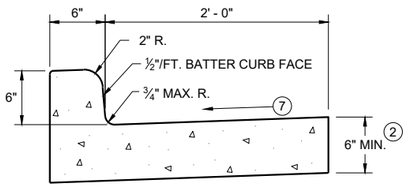
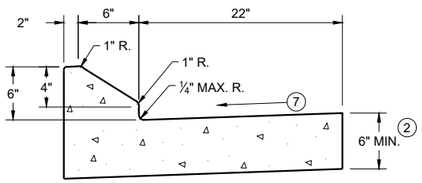
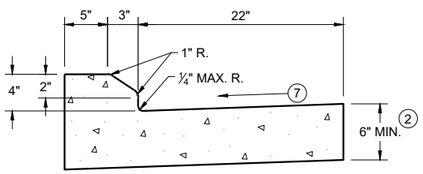


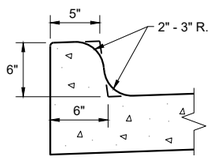
TYPES A (1) & D



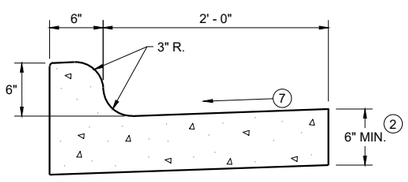
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

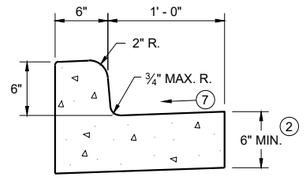


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



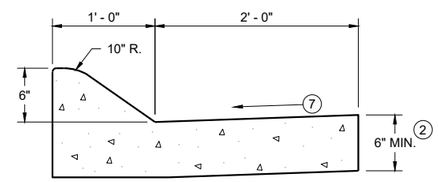
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

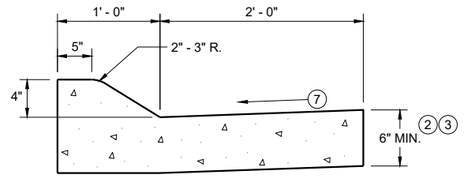


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

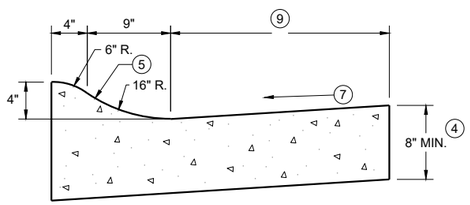


6" SLOPED CURB TYPES A (1) & D



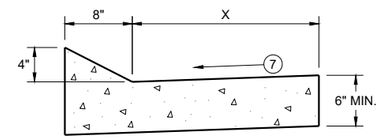
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

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

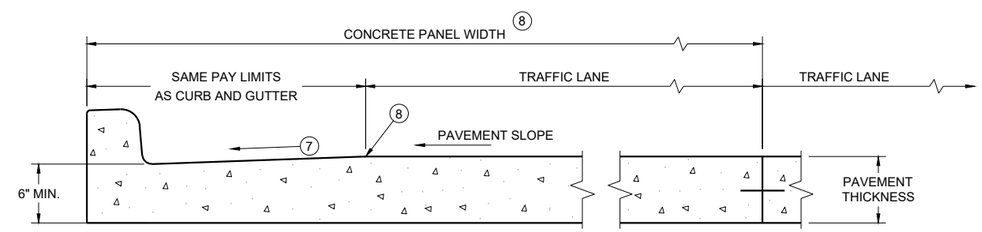


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

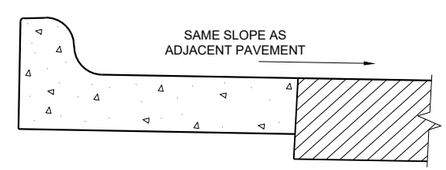
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



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

GENERAL NOTES

DETAILS OF CONSTRUCTION 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 AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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 GUTTERS 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) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES 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.

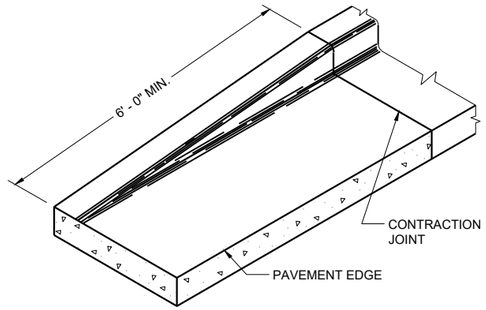
(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(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.

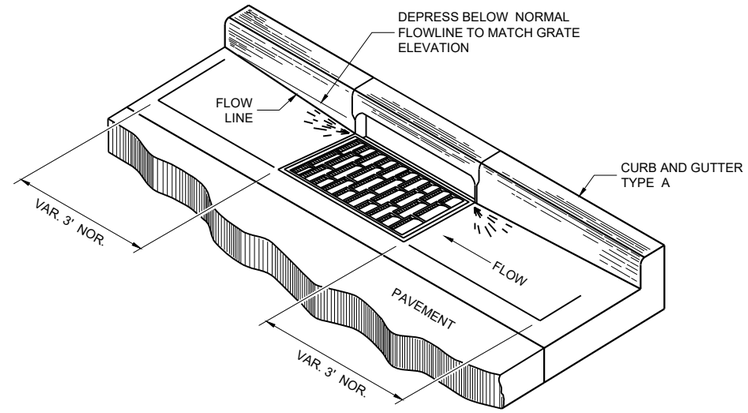
(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION 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.

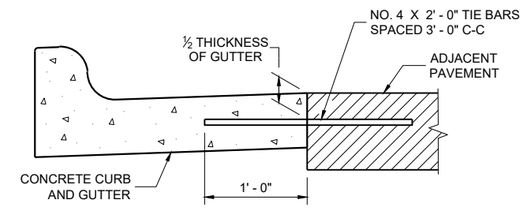
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

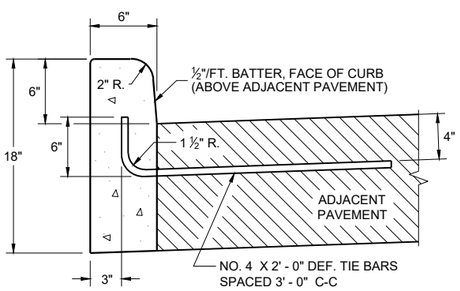
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(10) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

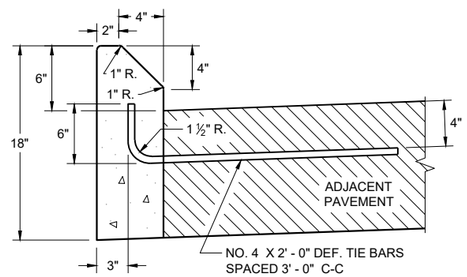
(11) PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.



TYPICAL TIE BAR LOCATION (1)

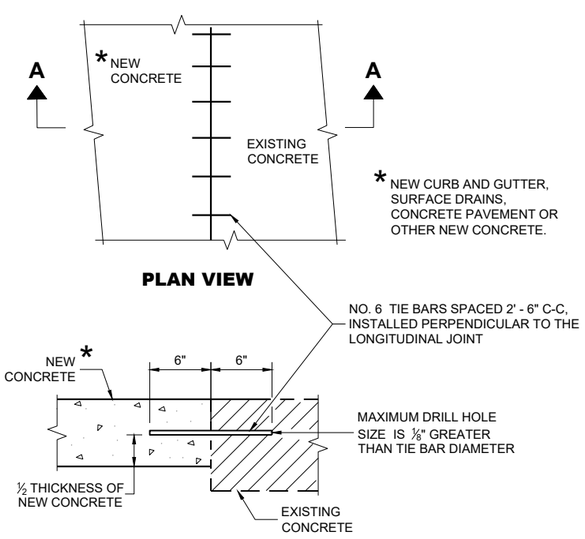


TYPES A (1) & D



TYPES G (1) & J

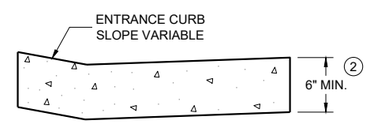
CONCRETE CURB



PLAN VIEW

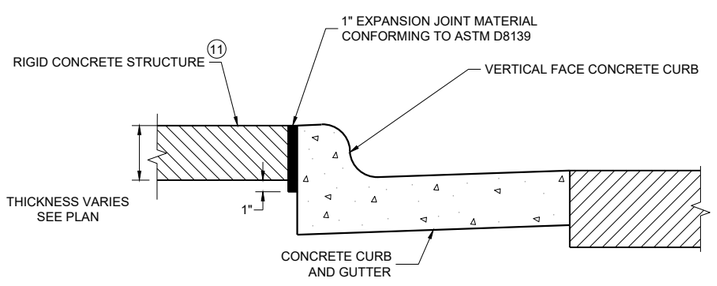
SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (10)

(WHEN DIRECTED BY THE ENGINEER)



EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

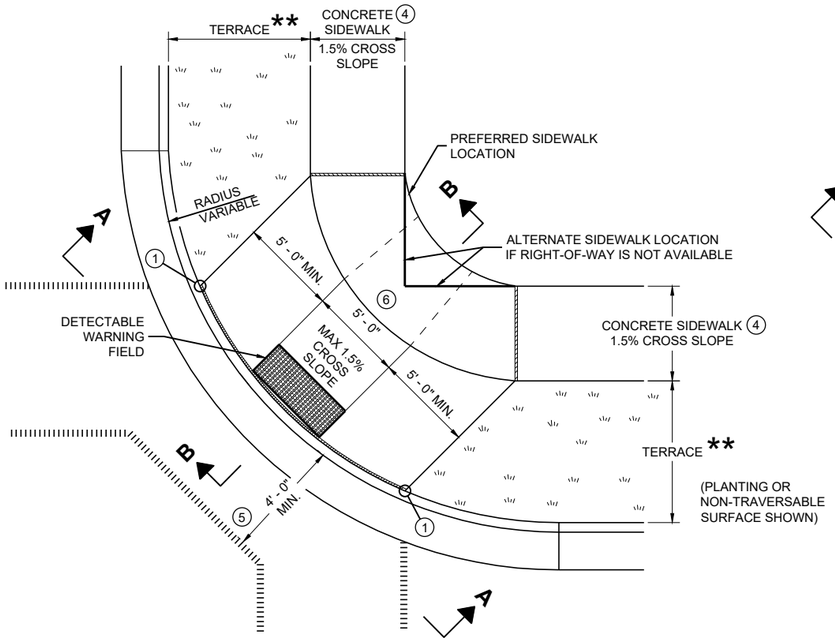
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6

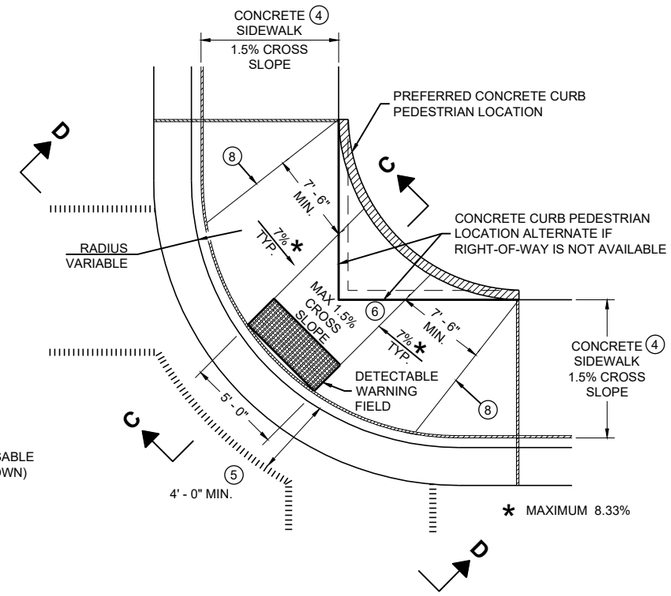
SDD 08D01-23b



PLAN VIEW

CURB RAMP TYPE 1

(CENTER OF CORNER RADIUS)



PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

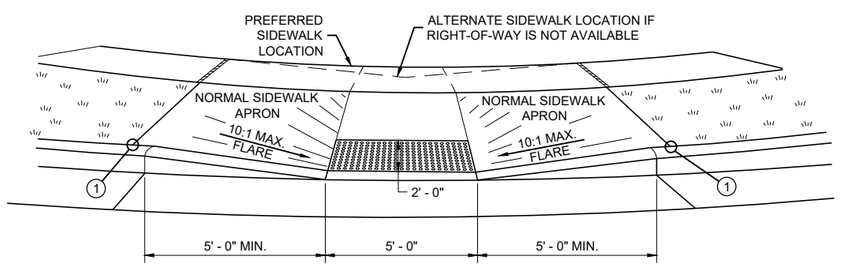
DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

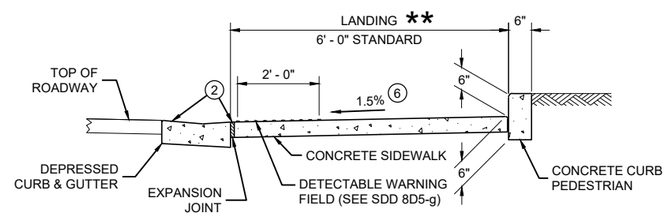
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

1. THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.
2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
3. MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
4. ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
5. PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA. 4 FOOT WIDTH IS MEASURED FROM THE FLANGE LINE
6. PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.
8. PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.



VIEW A - A FOR TYPE 1

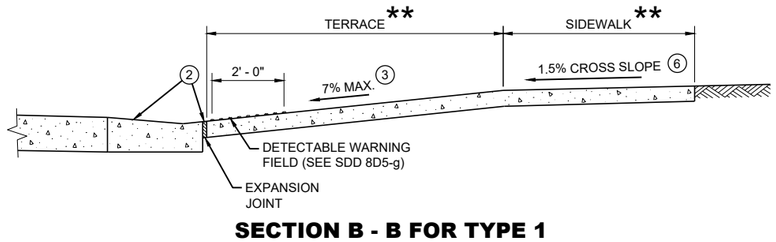


SECTION C - C FOR TYPE 1 - A

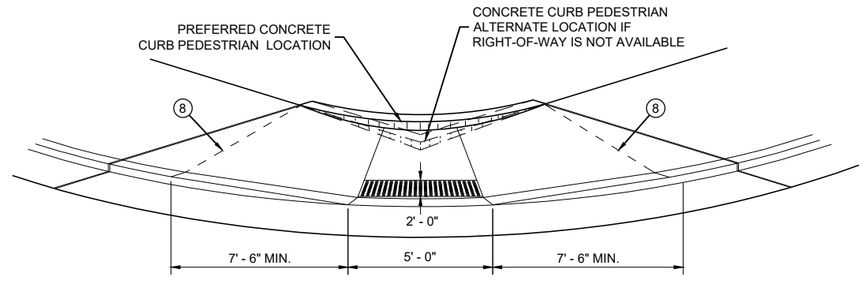
LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

** WIDTH SHOWN ELSEWHERE IN THE PLANS



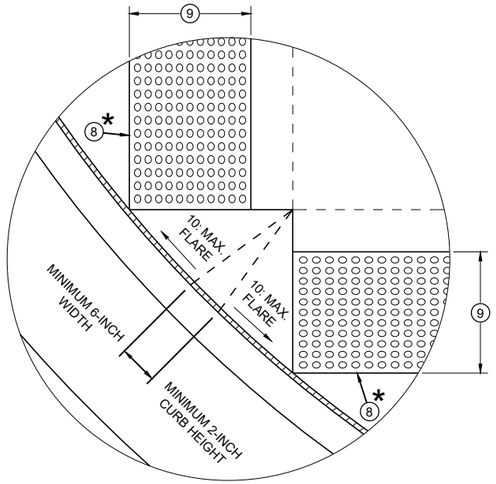
SECTION B - B FOR TYPE 1



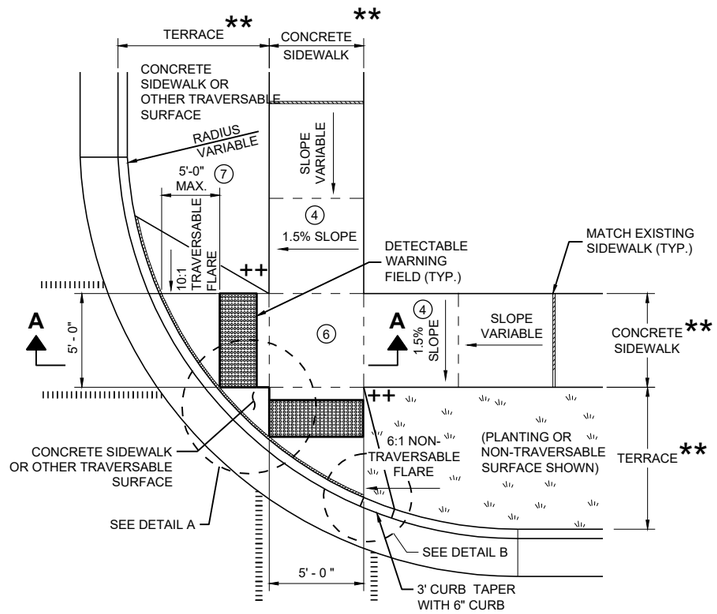
VIEW D - D FOR TYPE 1 - A

CURB RAMPS TYPE 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



DETAIL A



PLAN VIEW

CURB RAMP TYPE 2

(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

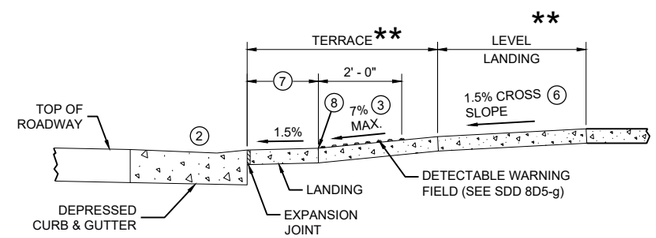
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

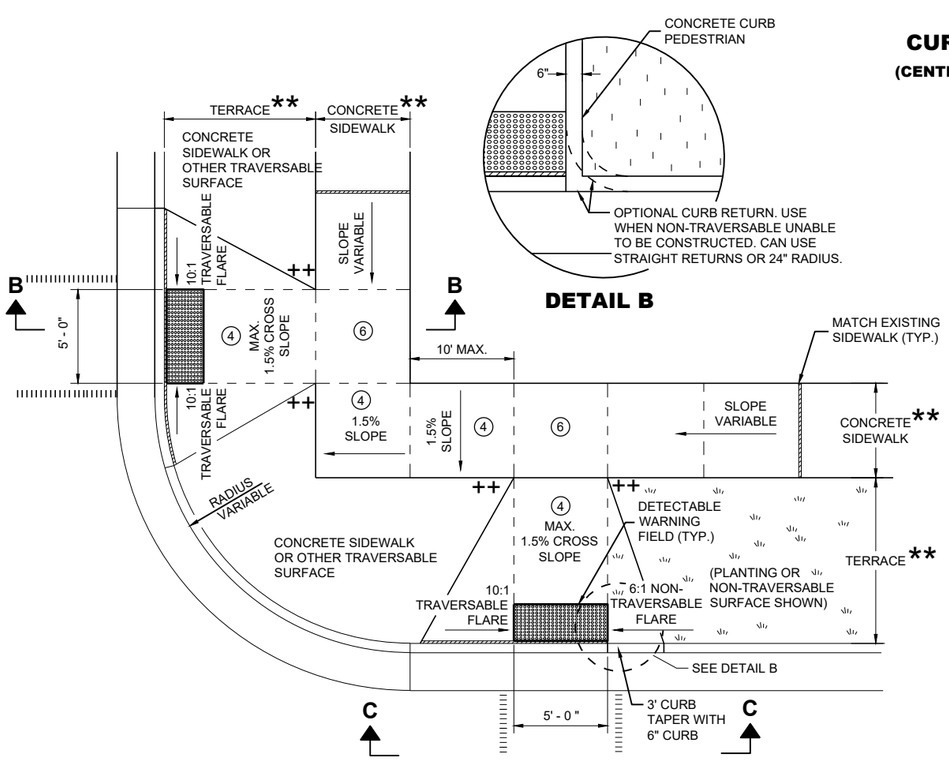


SECTION A - A FOR TYPE 2

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

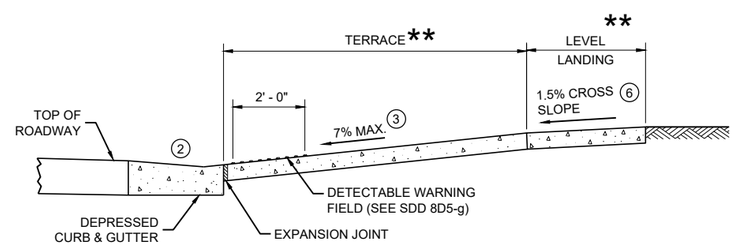


PLAN VIEW

CURB RAMP TYPE 3

(OUTSIDE OF CROSSWALK AREA)

DETAIL B



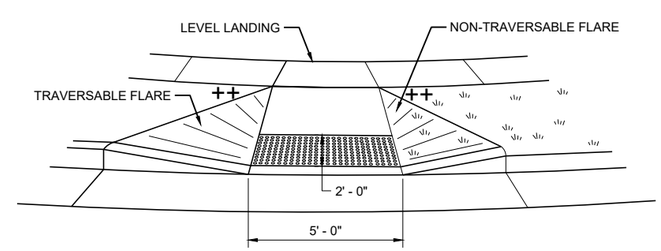
SECTION B - B FOR TYPE 3

LEGEND

½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

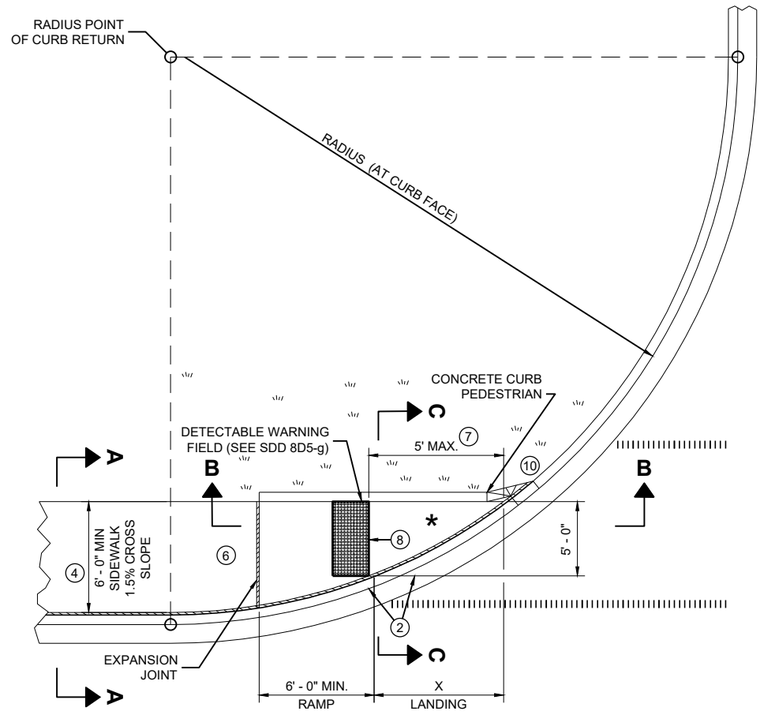
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

6

SDD 08D05-21b

SDD 08D05-21b

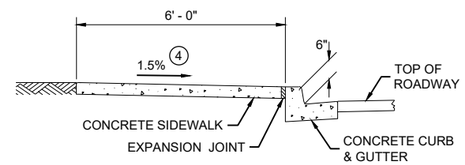


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

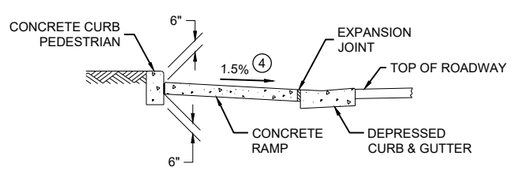
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

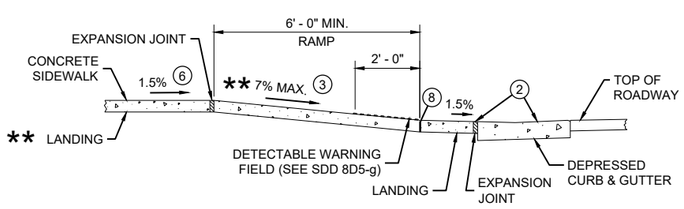
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



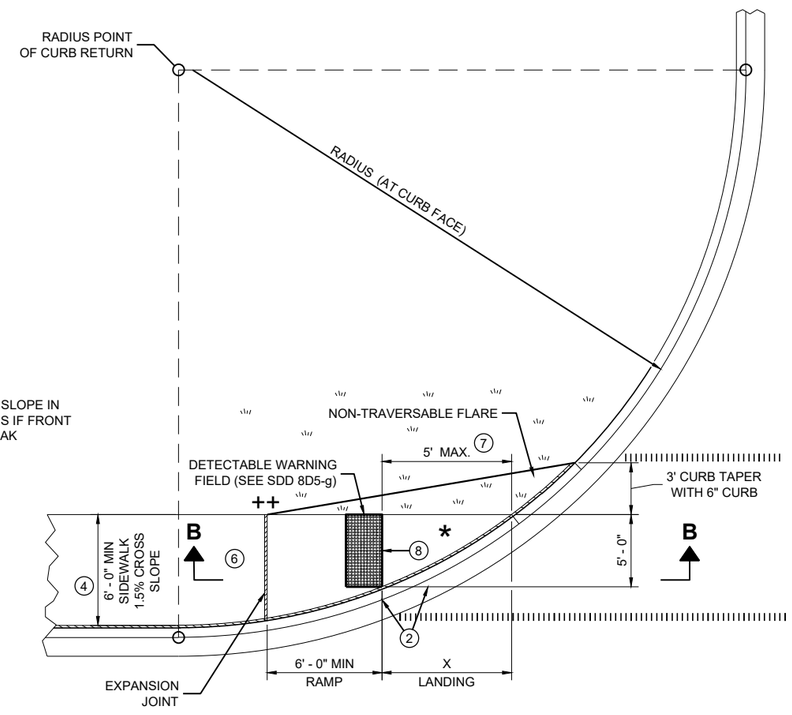
SECTION C - C FOR TYPE 4A



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B - B FOR TYPE 4A AND TYPE 4A1

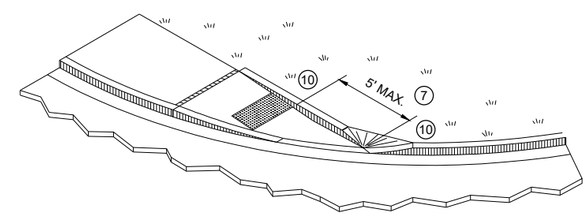
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK



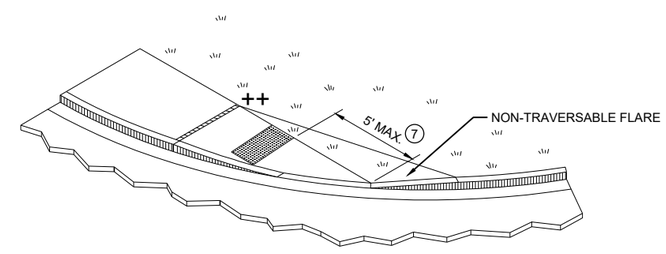
PLAN VIEW

CURB RAMP TYPE 4A1

++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE



ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS TYPE 4A AND 4A1

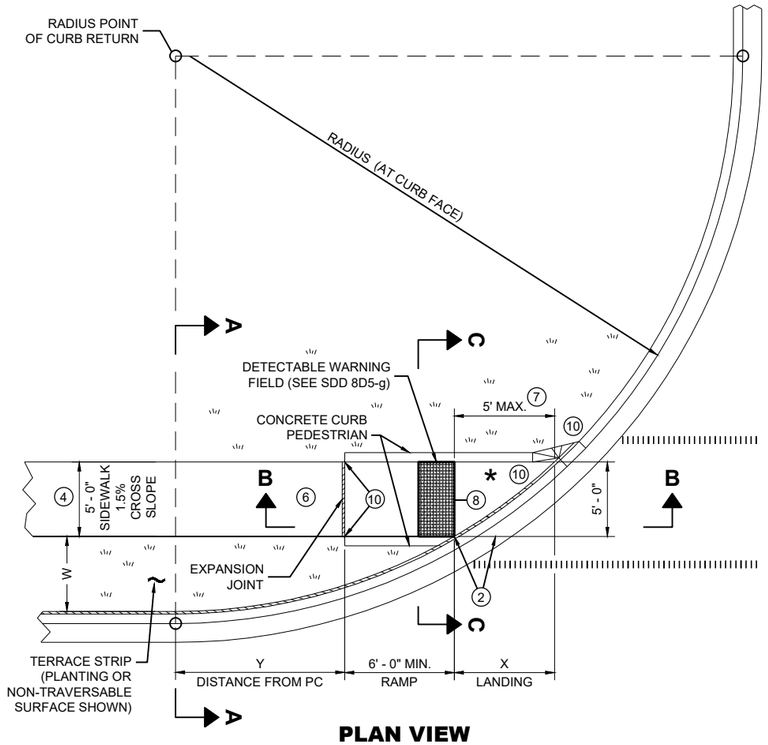
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

6

SDD 08D05-21c

SDD 08D05-21c



PLAN VIEW
CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET			4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET									4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET															4' - 10 ¾"	19' - 8 ¼"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

3. AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

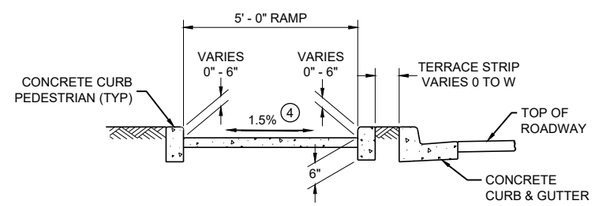
4. ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

6. PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

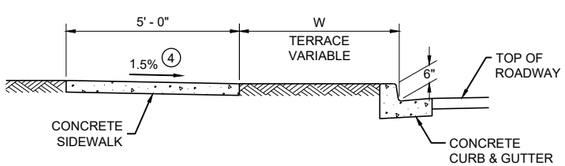
7. WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

8. PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

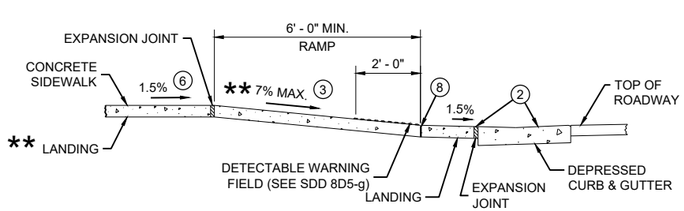
10. INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



SECTION C - C FOR TYPE 4B



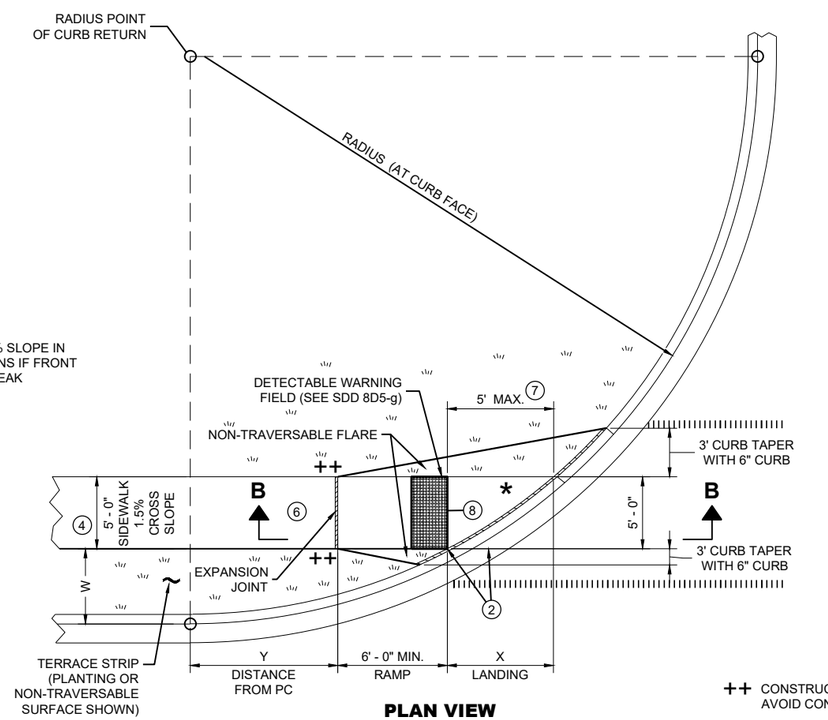
SECTION A - A FOR TYPE 4B



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

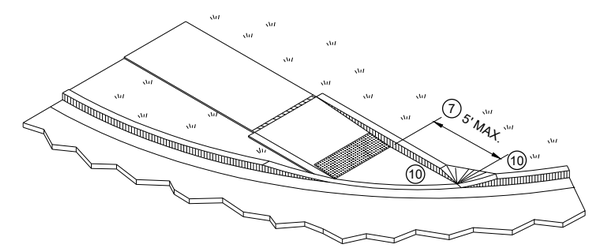
SECTION B - B FOR TYPE 4B AND TYPE 4B1

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

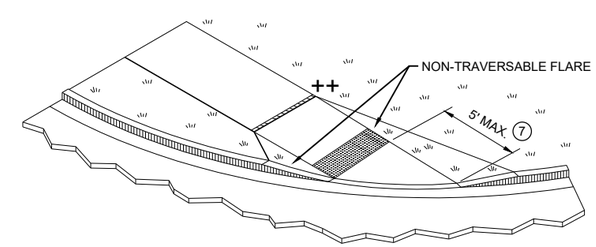


PLAN VIEW
CURB RAMP TYPE 4B1

++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

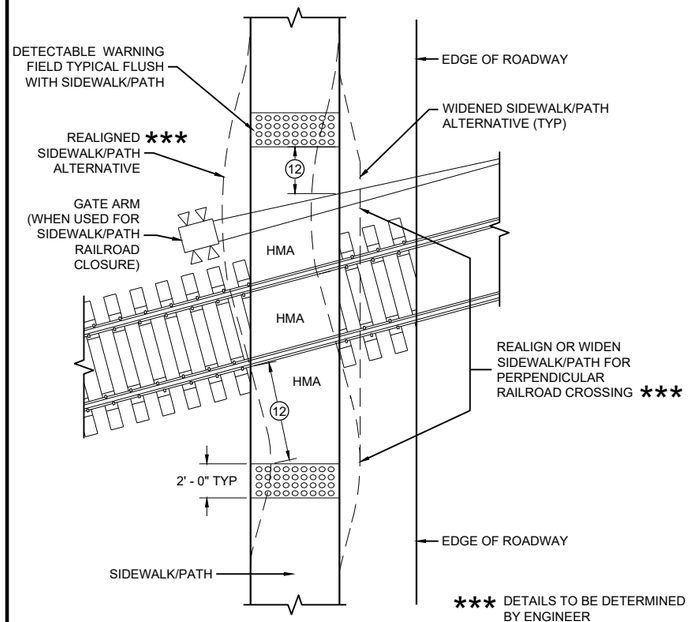
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

6

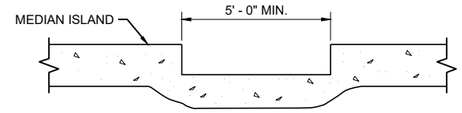
SDD 08D05-21d

SDD 08D05-21d

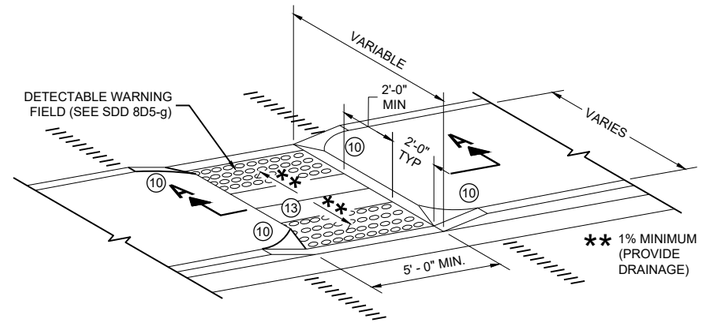


CURB RAMP TYPE 8

DETECTABLE WARNINGS FOR SIDEWALKS OR SHARED USE PATHS AT RAILROAD CROSSINGS



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

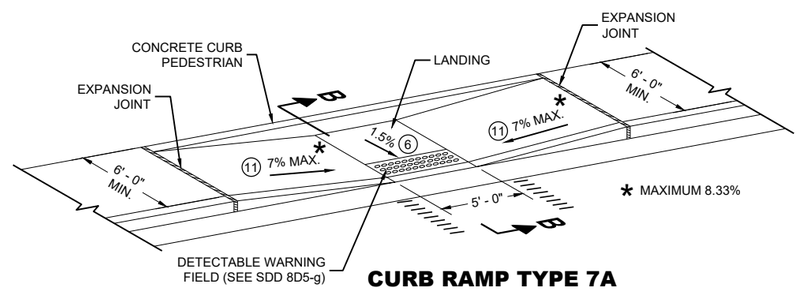
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK/PATH. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD TRACK IS 15 FEET MAXIMUM AND 12 FEET MINIMUM, 15 FEET TYPICAL FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

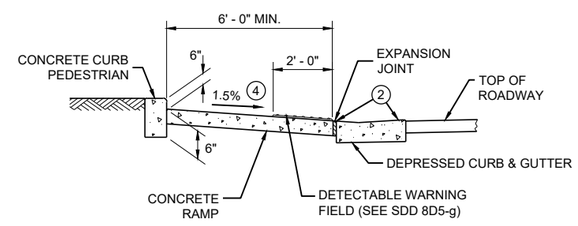
LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

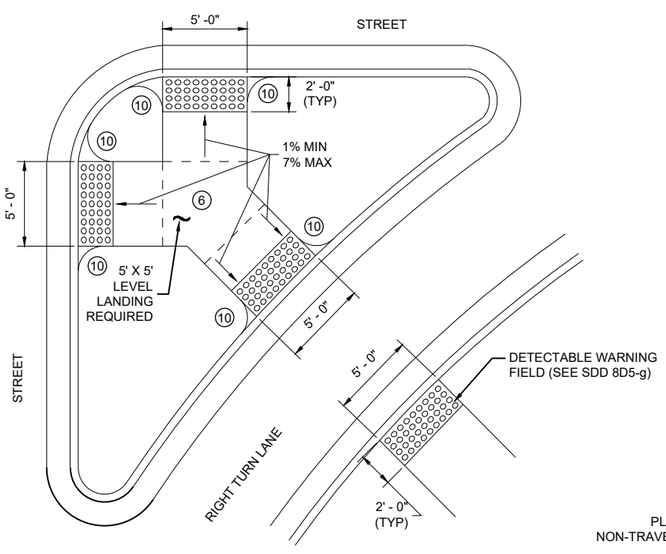


CURB RAMP TYPE 7A

FOR INTERSECTIONS AND MID BLOCK CROSSINGS



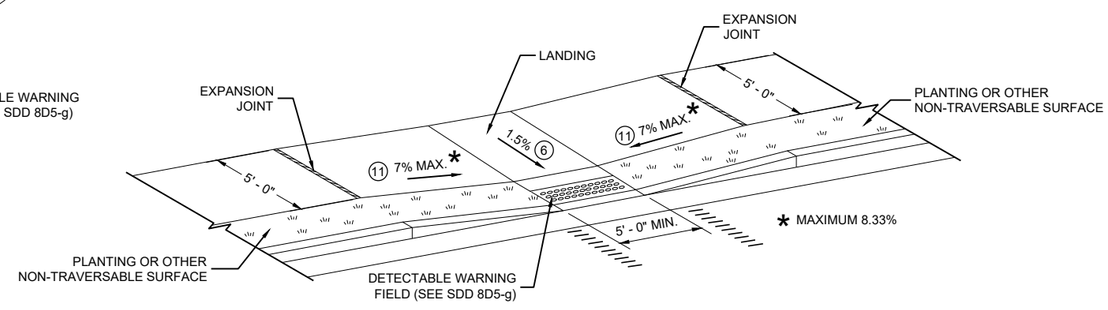
SECTION B - B FOR TYPE 7A



CURB RAMP TYPE 6

DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7B

FOR INTERSECTIONS AND MID BLOCK CROSSINGS

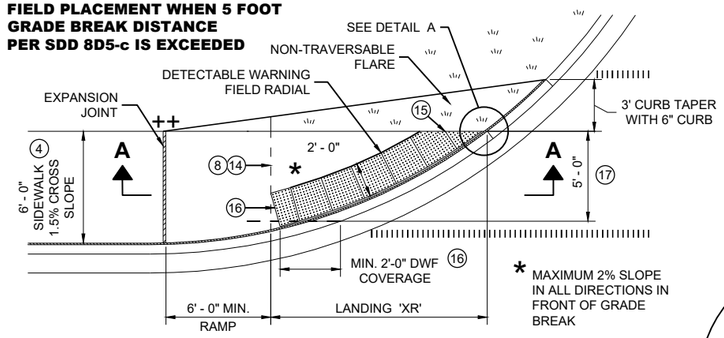
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05-21e

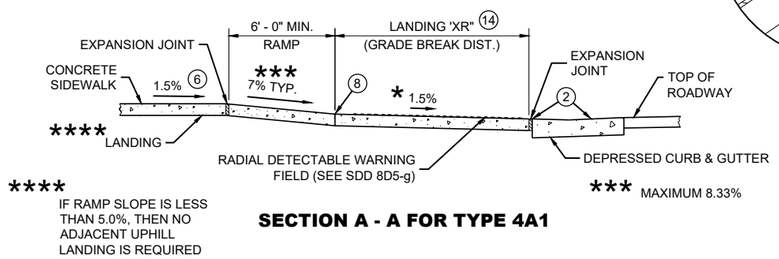
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



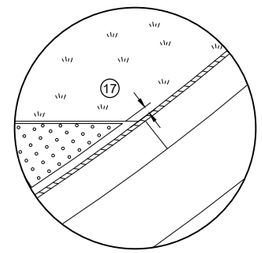
PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



SECTION A - A FOR TYPE 4A1



DETAIL A

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

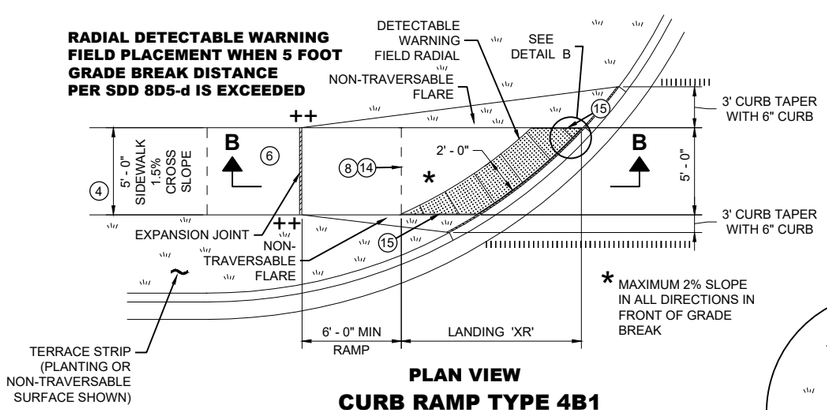
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

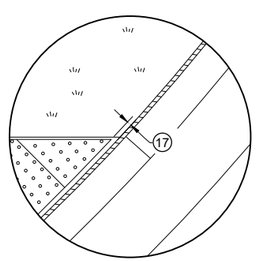
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



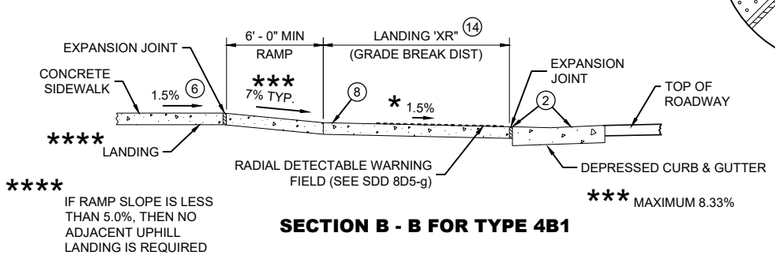
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

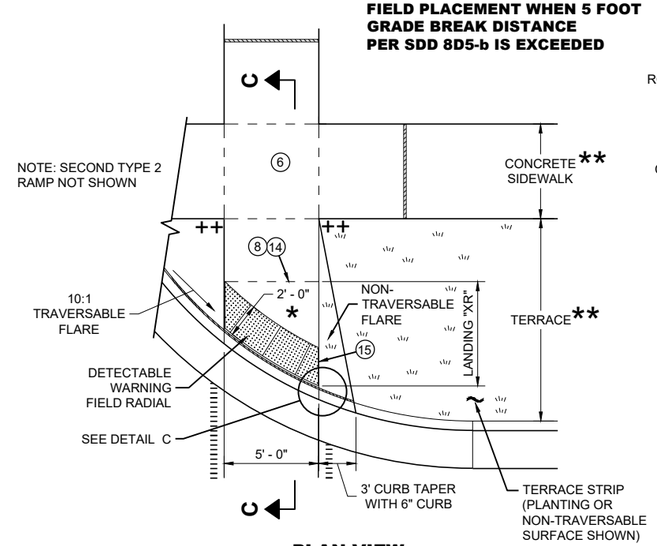


DETAIL B



SECTION B - B FOR TYPE 4B1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

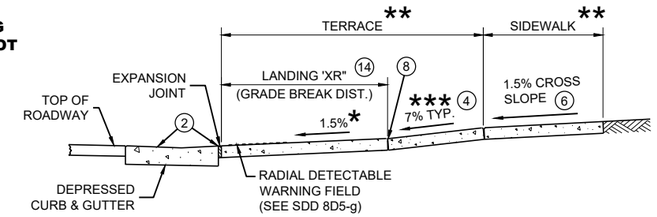


PLAN VIEW

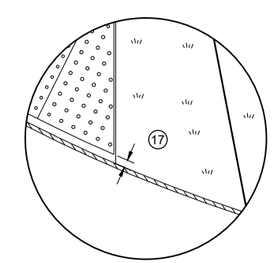
CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)



SECTION C - C FOR TYPE 2



DETAIL C

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%

++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

CURB RAMPS
RADIAL DETECTABLE WARNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

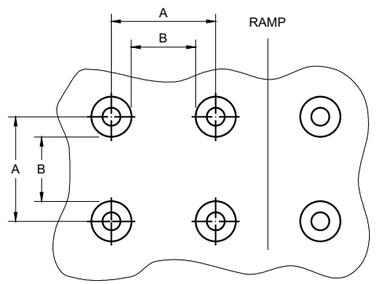
6

SDD 08D05-21f

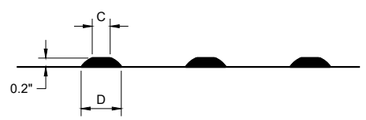
SDD 08D05-21f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

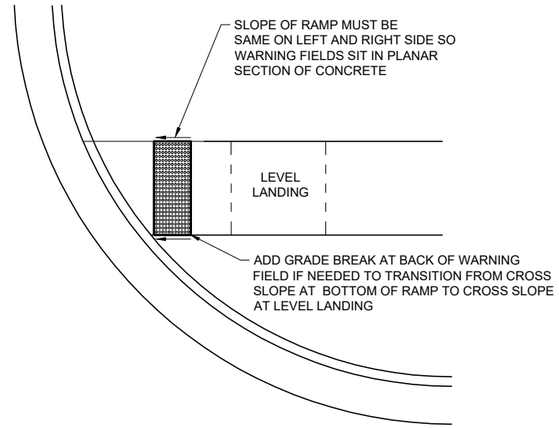


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



DETECTABLE WARNING FIELD
PLANAR INSTALLATION

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

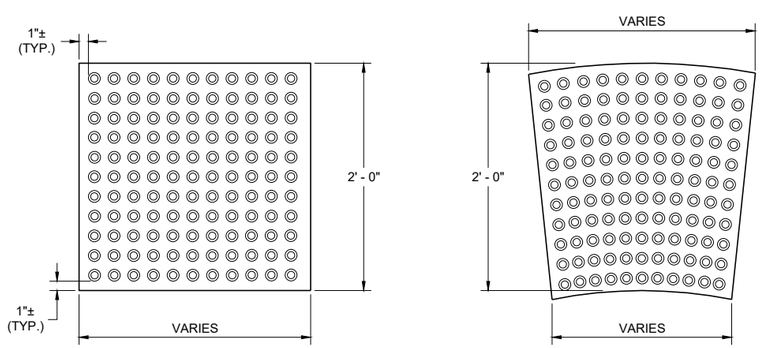
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

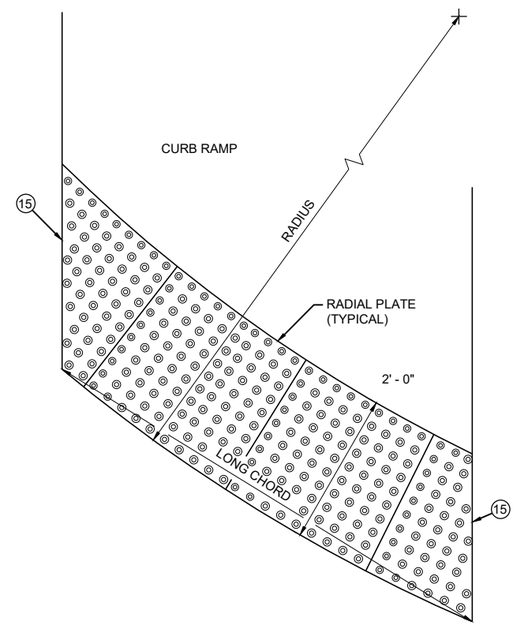
DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

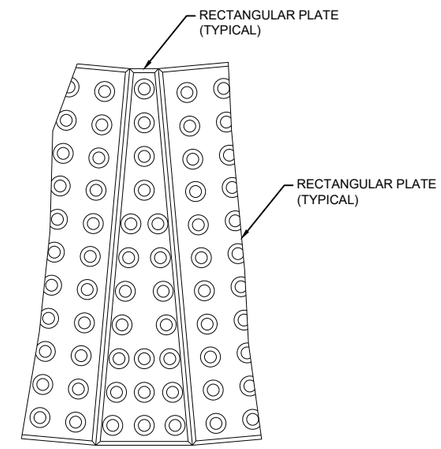


RECTANGULAR PLATES **RADIAL PLATES**

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

6

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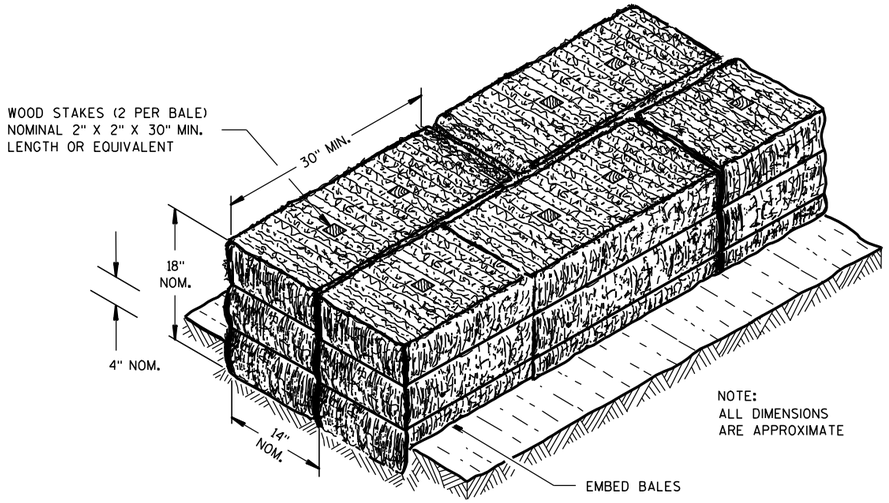
SDD 08D05-21g

SDD 08D05-21g

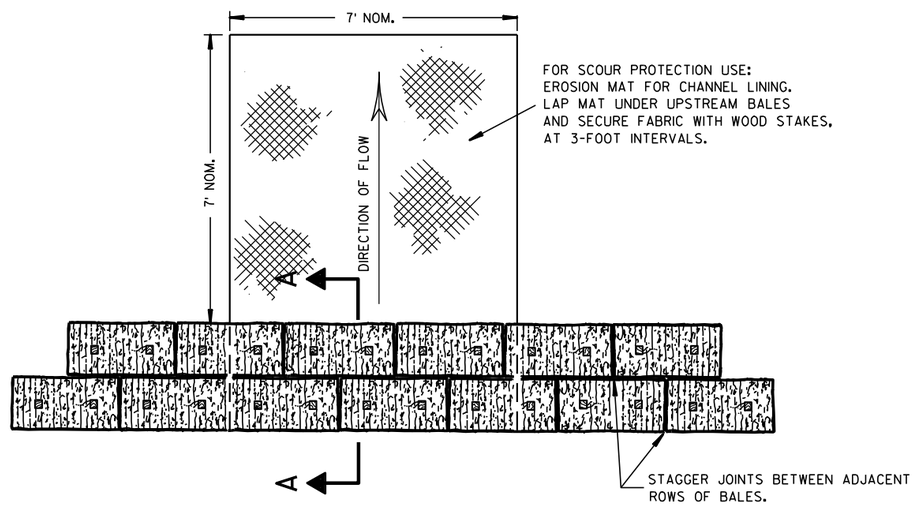
CURB RAMPS
RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

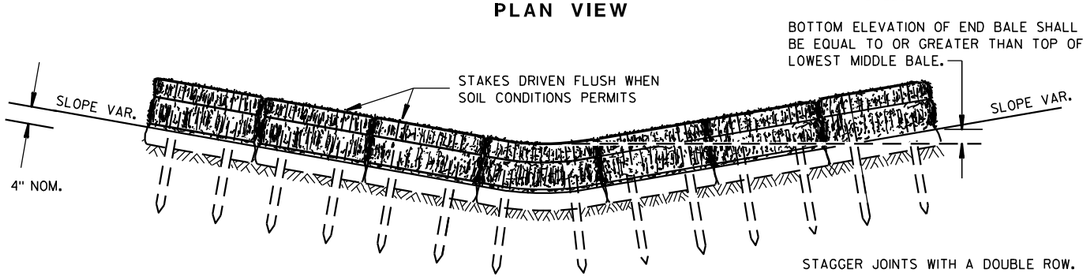
APPROVED
July 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA



SECTION A-A



PLAN VIEW



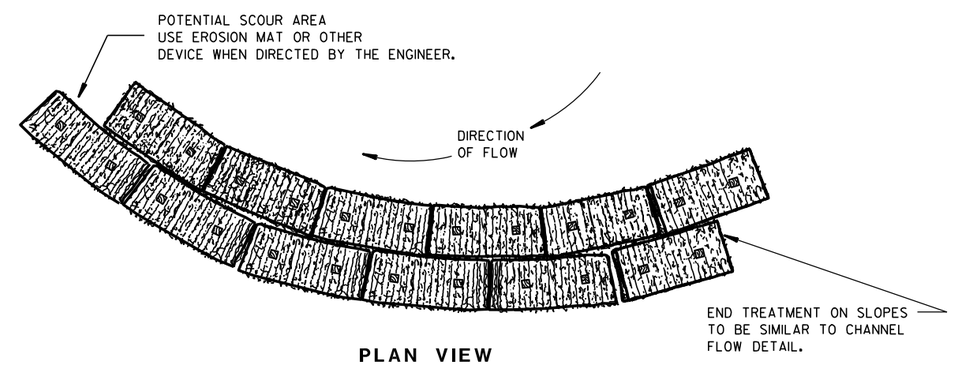
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

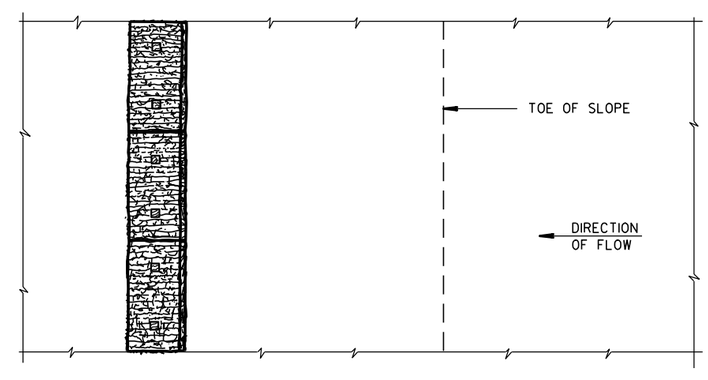
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

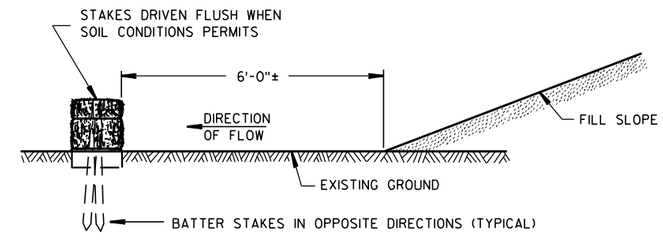


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 — DATE
/S/ Beth Cann — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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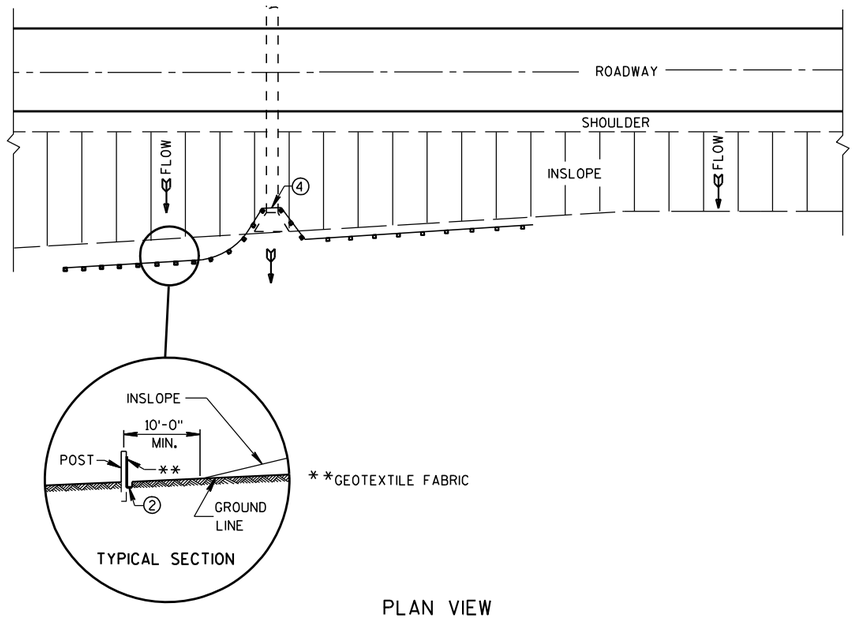
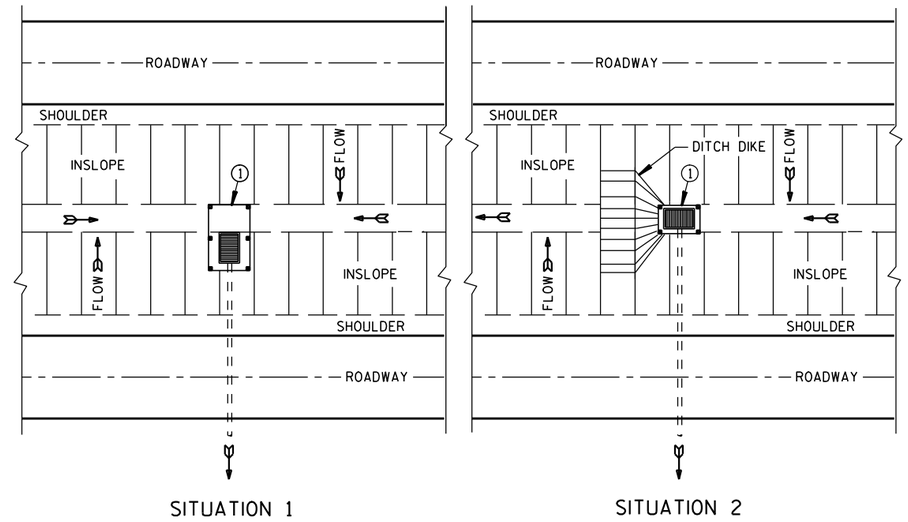
S.D.D. 8 E 8-3

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF 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.

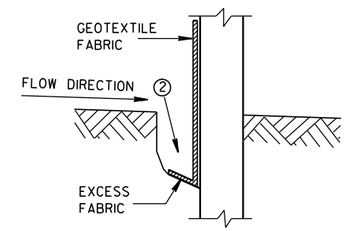
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

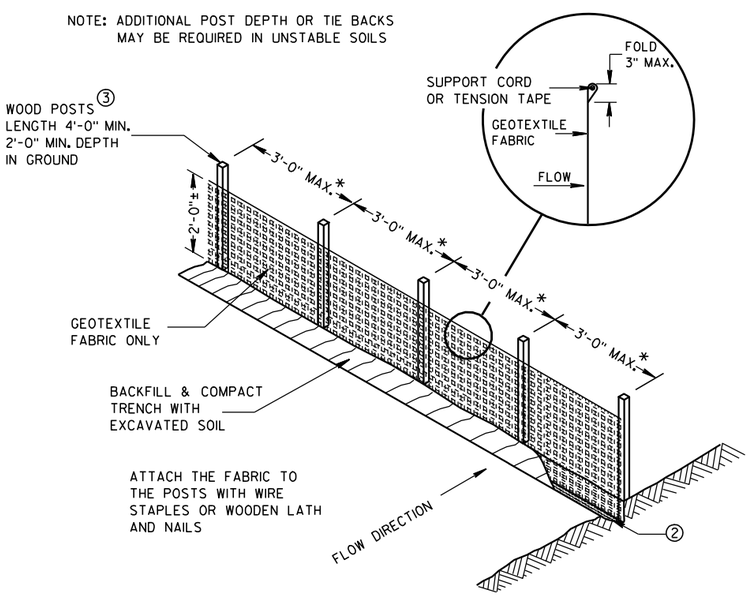
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

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.

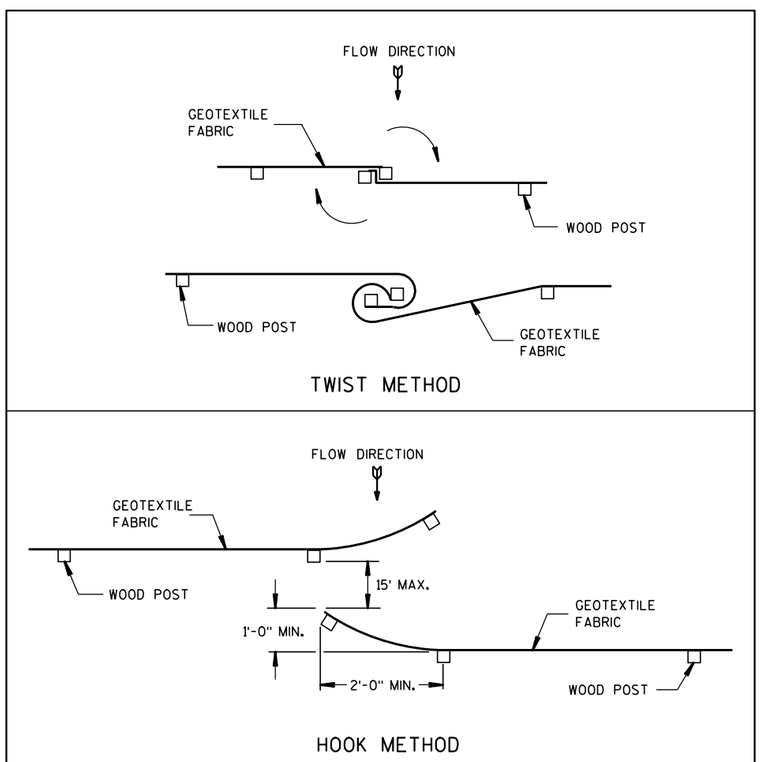


TRENCH DETAIL

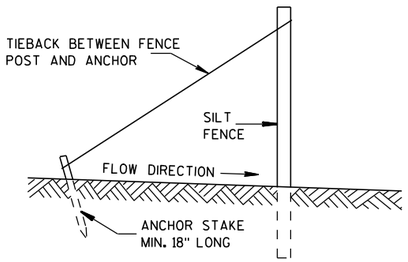


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE	/S/ Beth Cann-- CHIEF ROADWAY DEVELOP ENGINEER
FHWA	

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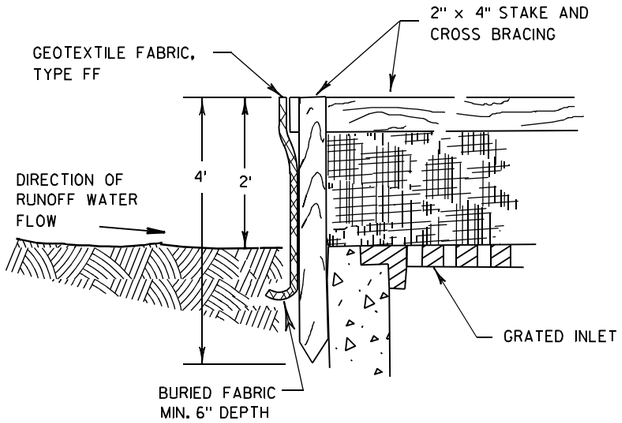
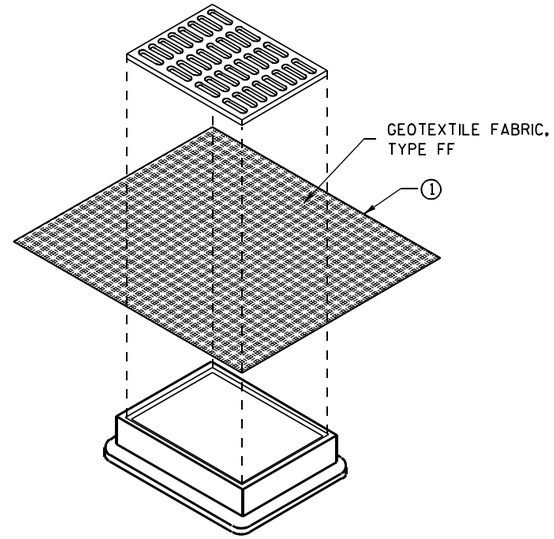
S.D.D. 8 E 9-6

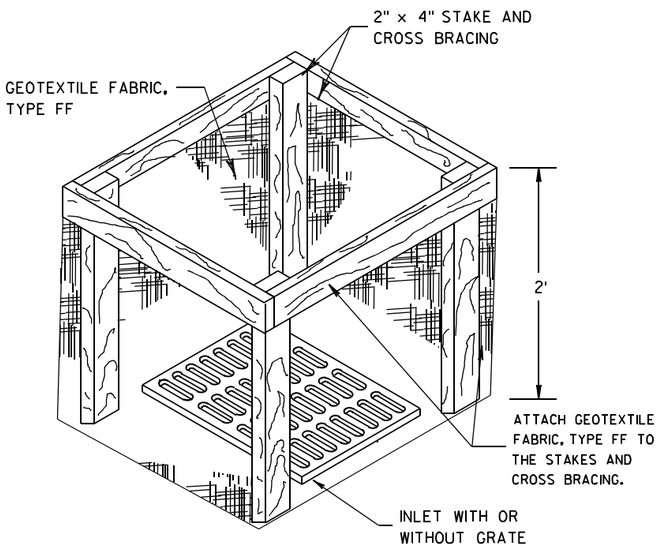
S.D.D. 8 E 9-6



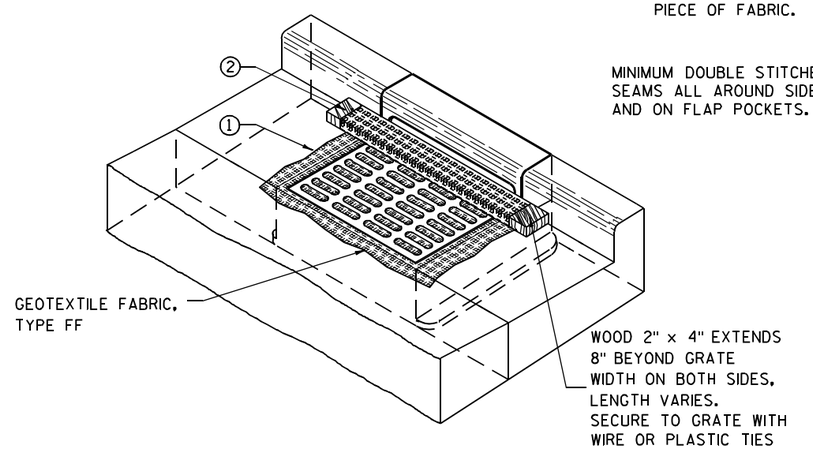


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

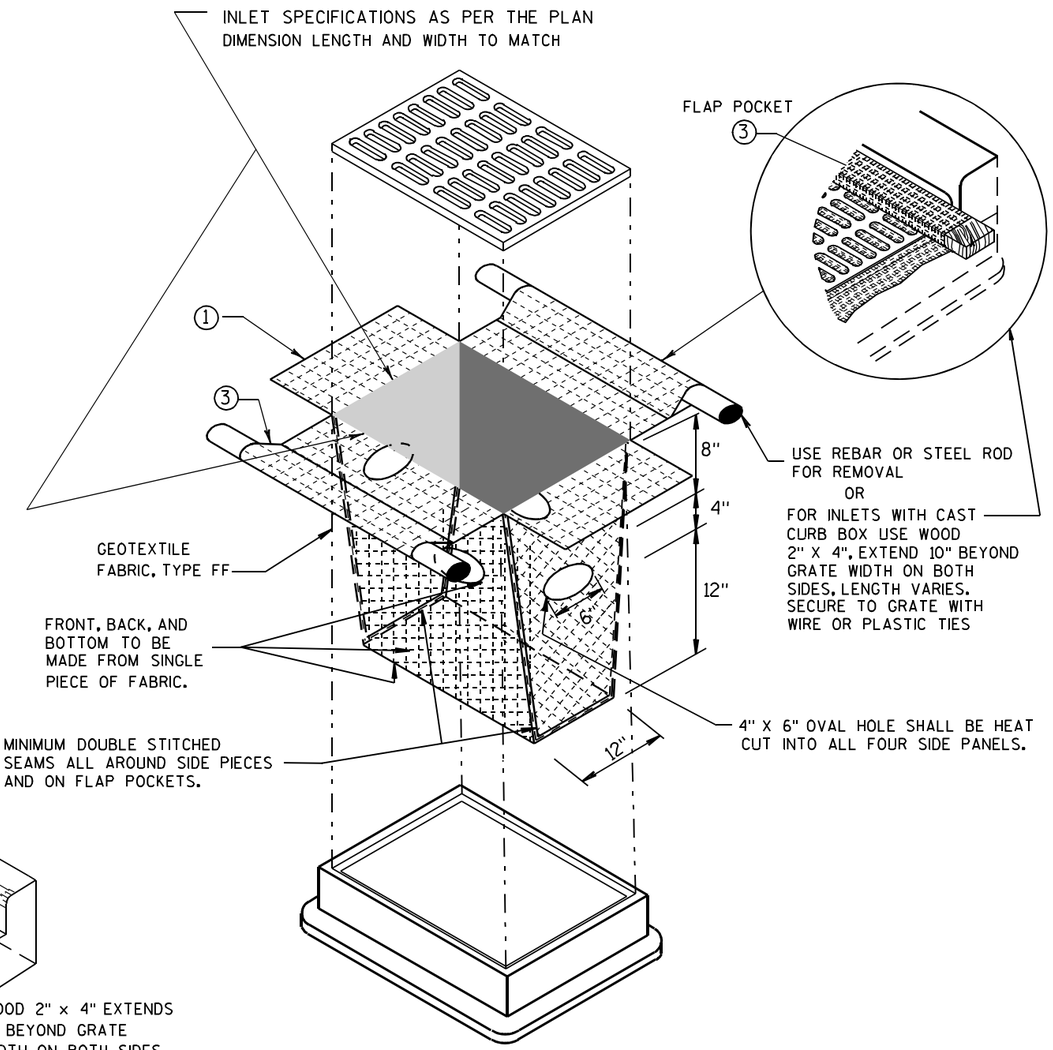
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02 — DATE
/S/ Beth Cannon
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 10-2

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.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

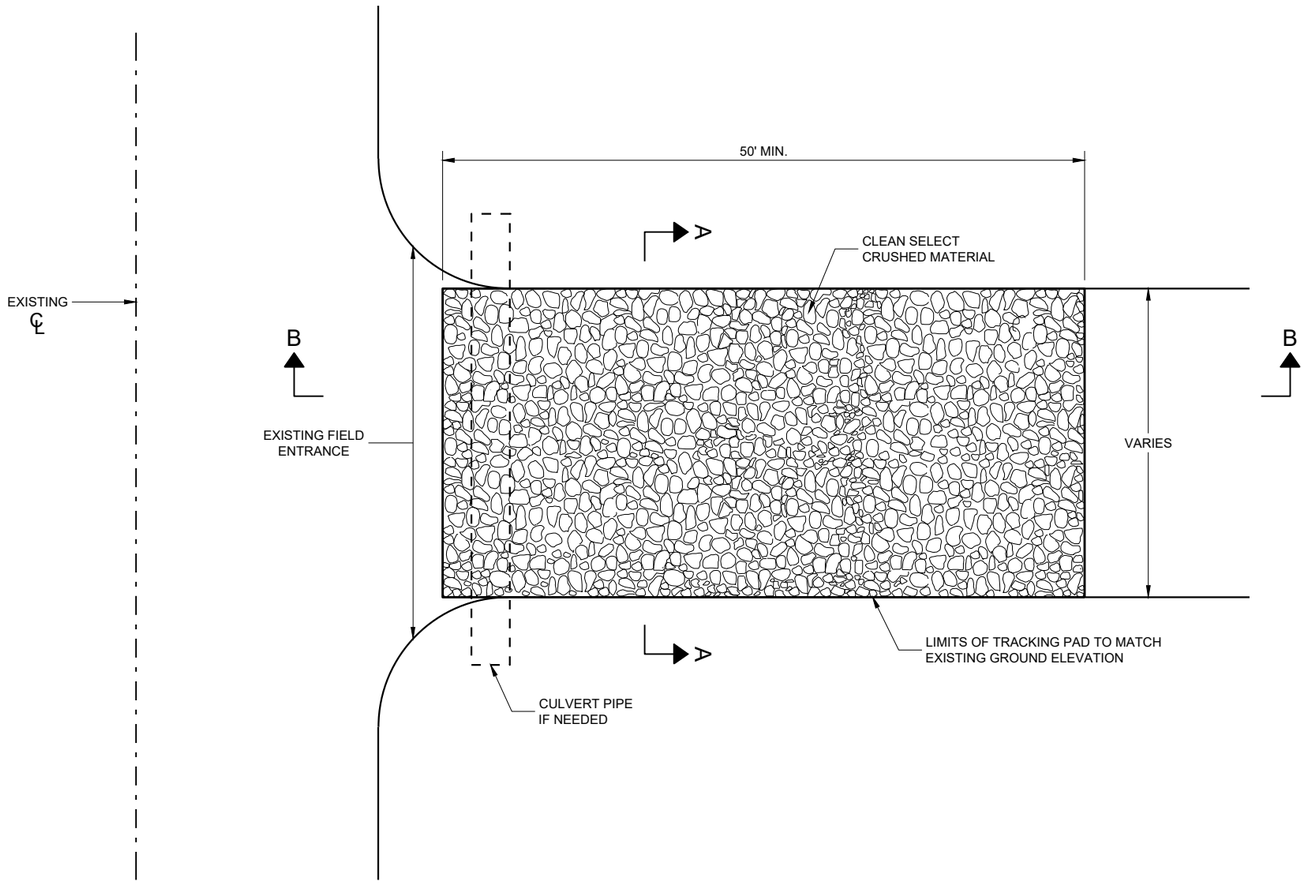
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

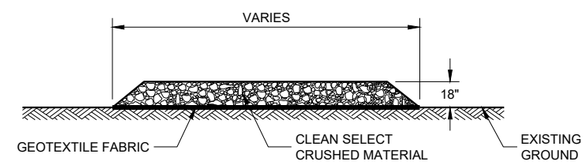
TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

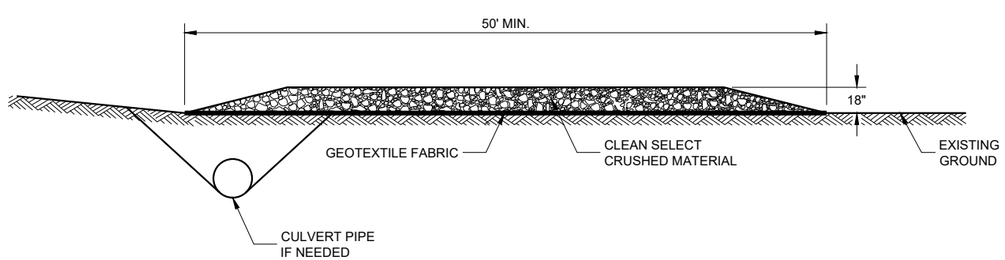
CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.





SECTION A - A



SECTION B - B

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVE ENGINEER
FHWA

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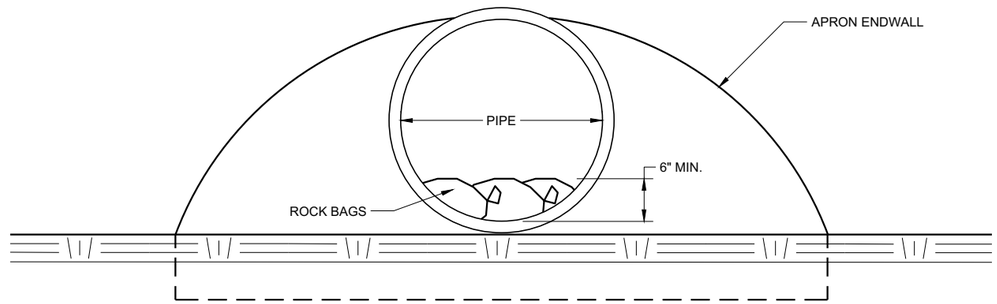
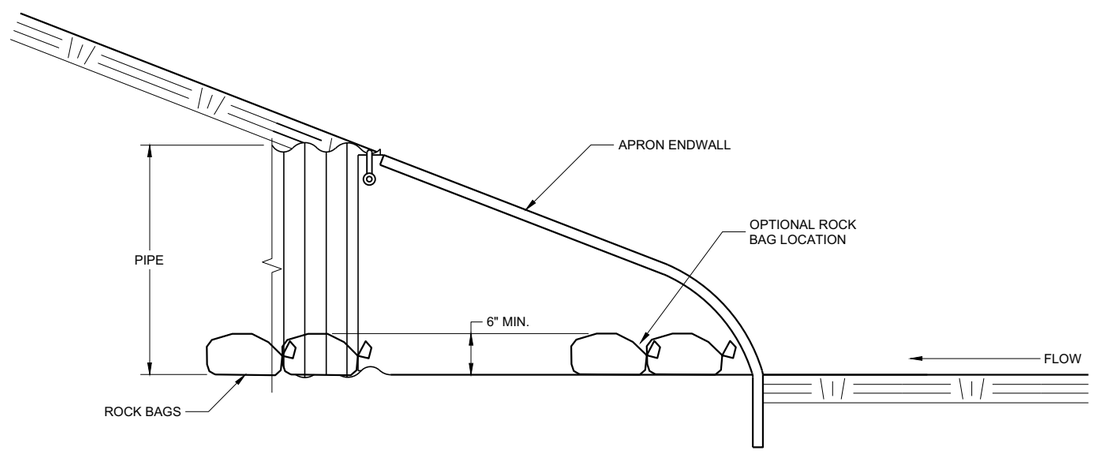
SDD 08E14 - 01



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 — DATE
/S/ Daniel Schave — EROSION CONTROL ENGI
FHWA

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SDD 08E15 - 01

SDD 08E15 - 01

METAL APRON ENDWALLS

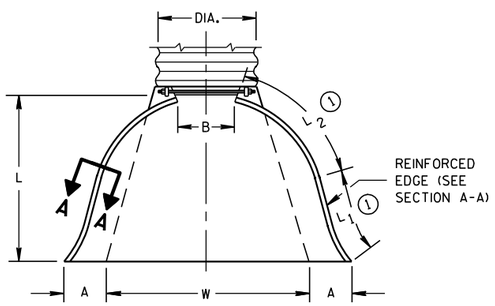
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL
SEE GENERAL NOTES

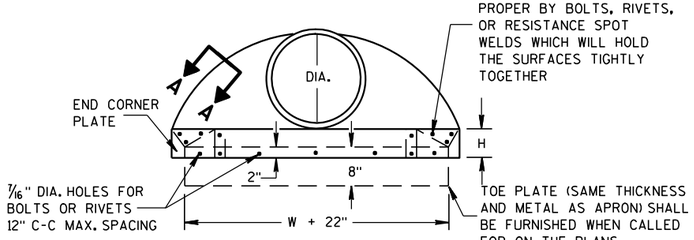
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 7/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	*33 1/4-**35	*98 1/4-**100	90	5 1/2	2 2/5 to 1
60	6	*30-**35	60	39	99	96	5	2 to 1
66	6 1/2	*24-**30	*72-**78	*21-**27	99	102	5 1/2	2 to 1
72	7	*24-**36	78	21	99	108	6	2 to 1
78	7 1/2	*24-**36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

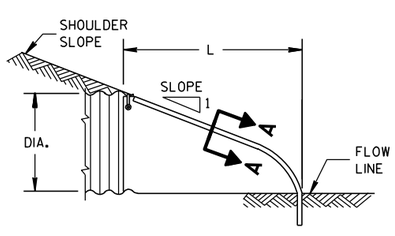
*MINIMUM
**MAXIMUM



PLAN VIEW

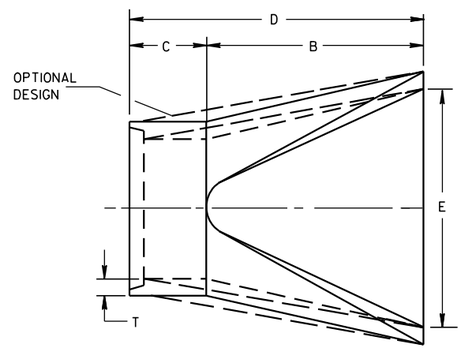


END VIEW

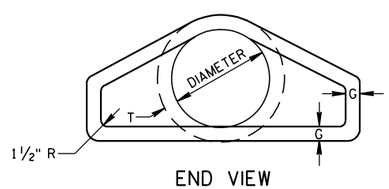


SIDE ELEVATION

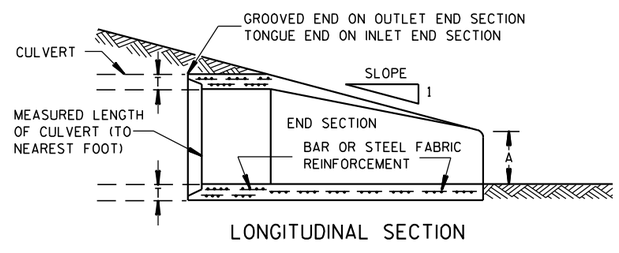
METAL ENDWALLS



PLAN

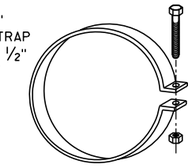


END VIEW



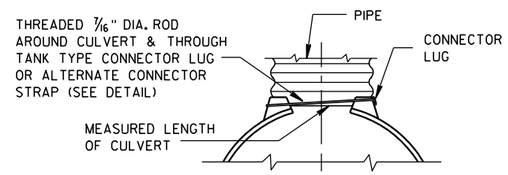
LONGITUDINAL SECTION

CONCRETE ENDWALLS

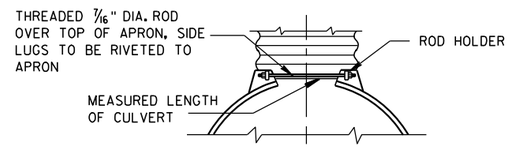


ALTERNATE FOR TYPE 1 CONNECTION

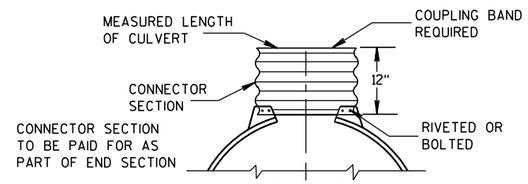
END SECTION CONNECTOR STRAP



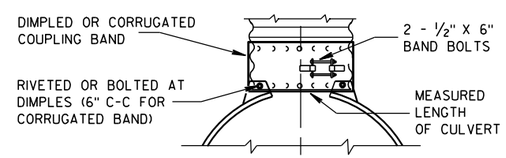
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

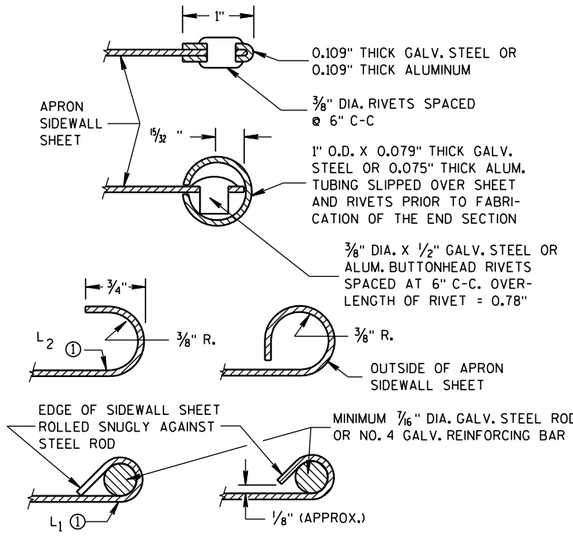
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

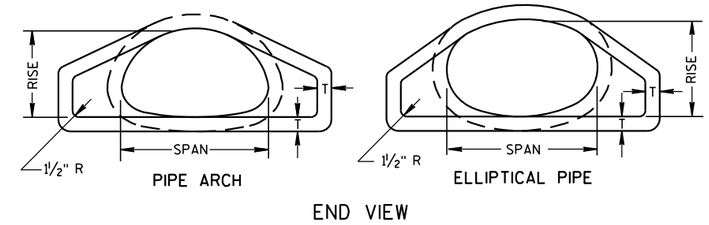
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

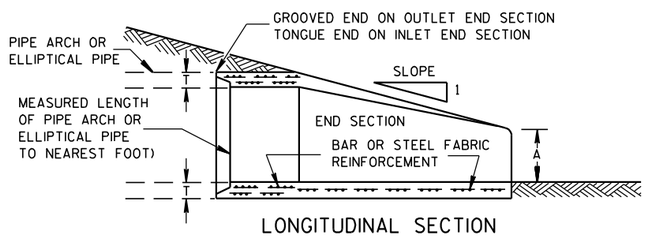
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

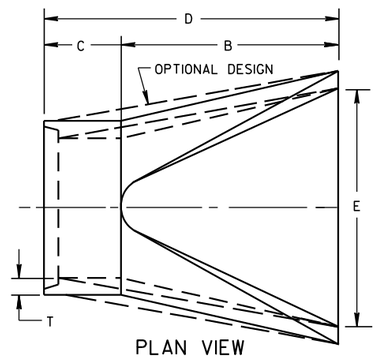
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA







CONCRETE ENDWALLS

2- ⅔" X ½" CORRUGATIONS														
EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	SPAN	RISE	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1½")	L1 ①	L2 ①	W (±2")		
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS														
EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	SPAN	RISE	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1½")	L1 ①	L2 ①	W (±2")		
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

REINFORCED CONCRETE PIPE ARCH									
EQUIV. DIA. (Inches)	DIMENSIONS (Inches)								APPROX. SLOPE
	** SPAN	** RISE	T	A	B	C	D	E	
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE									
EQUIV. DIA. (Inches)	DIMENSIONS (Inches)								APPROX. SLOPE
	** SPAN	** RISE	T	A	B	C	D	E	
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE

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.

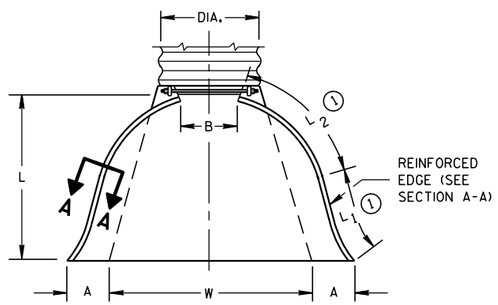
CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

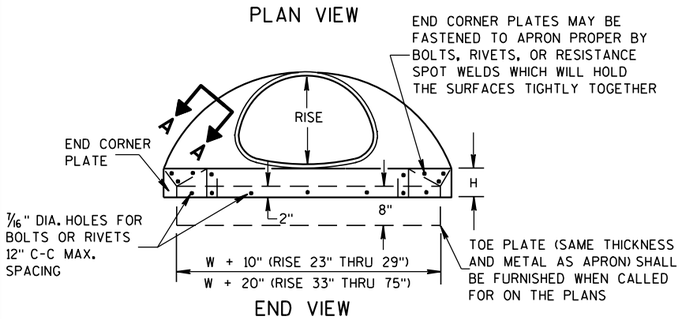
ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

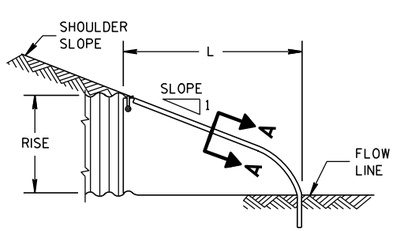
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

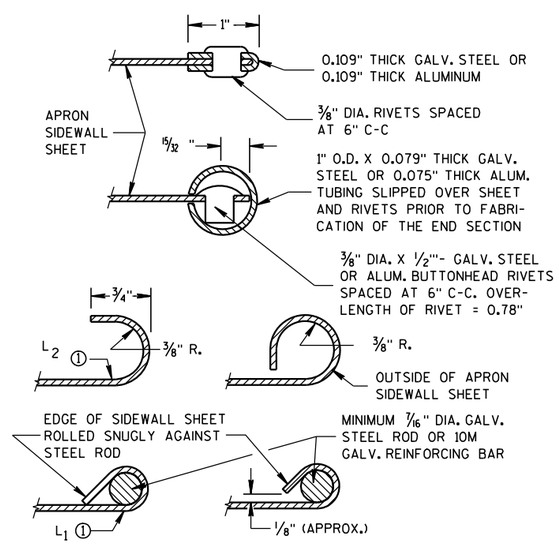




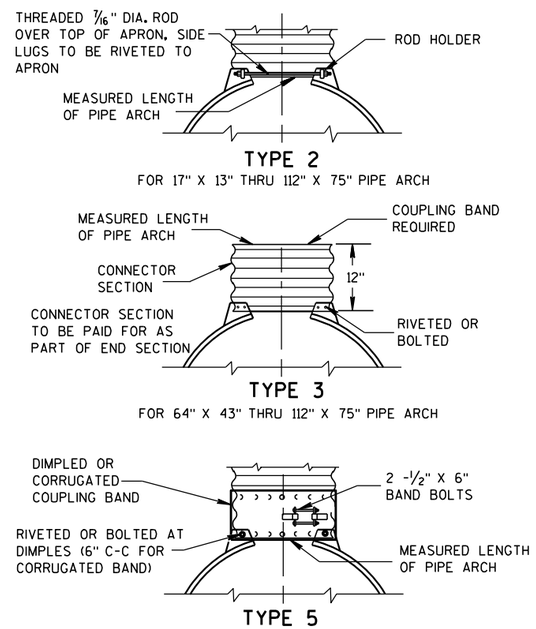


SIDE ELEVATION

METAL ENDWALLS



SECTION A-A



NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

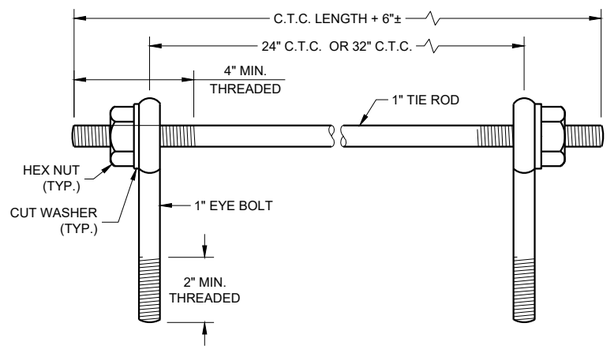
11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

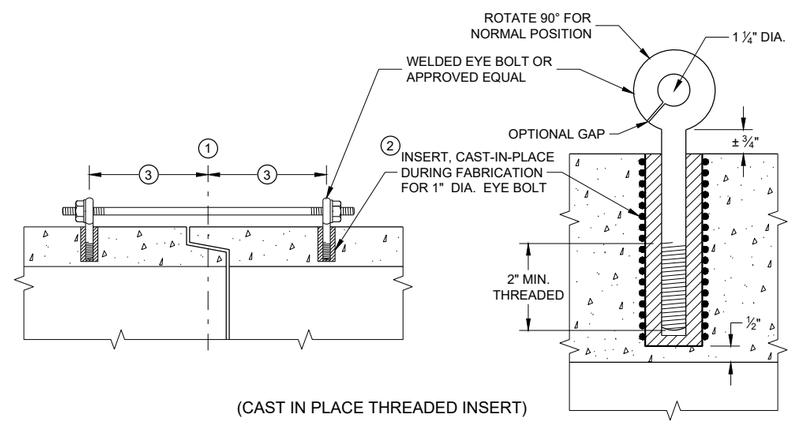
FHWA

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

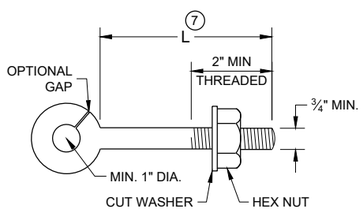
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

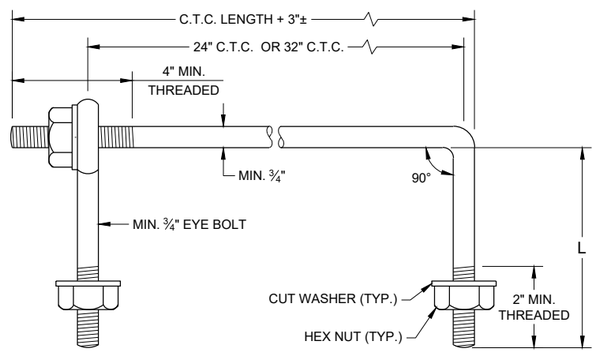
JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

1. CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
2. THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
3. HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.
4. BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
5. OPENING TO BE ROD DIAMETER PLUS 1 INCH.
6. LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.
7. EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

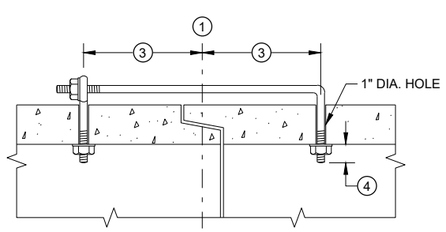


EYE BOLT 7

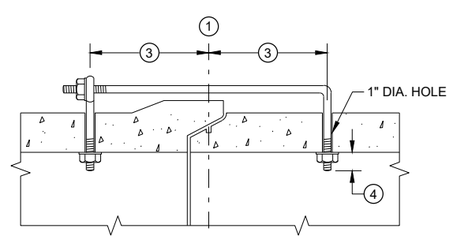
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

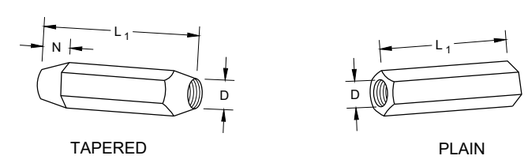
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

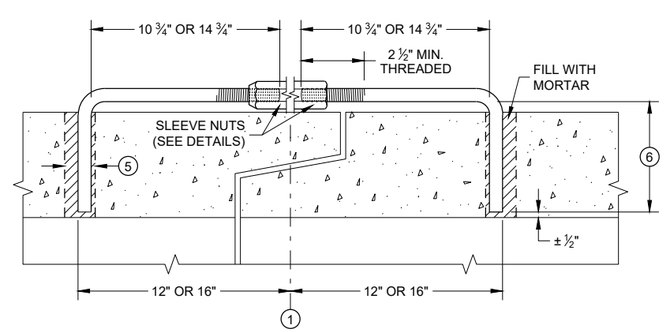
PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



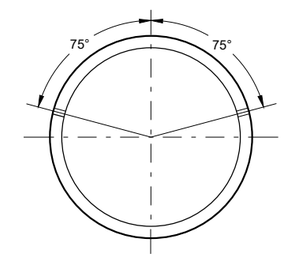
RIGHT AND LEFT THREADS

SLEEVE NUTS



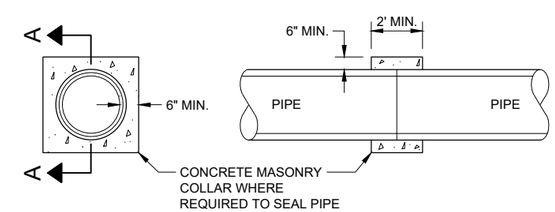
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

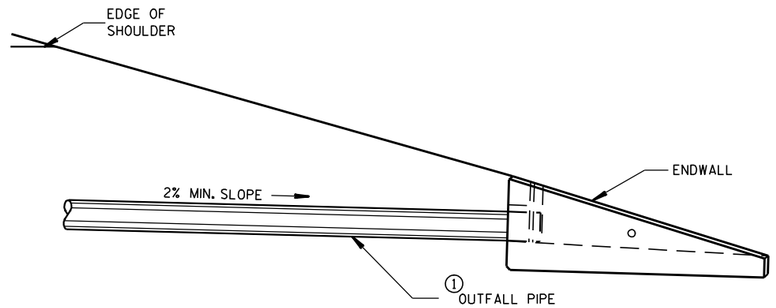
APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

SDD 08F04 - 08

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5¼	9	8	32	36	11	2⅜	6½	4
6	8	14	7¼	11	10	42	44	13	3⅝	8½	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION DETAIL

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.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

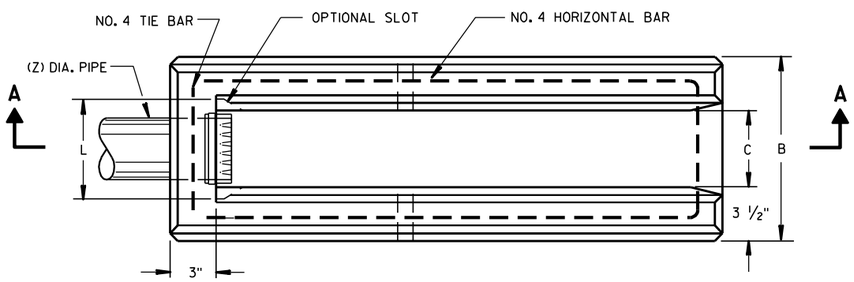
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

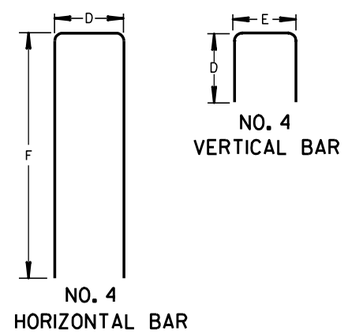
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

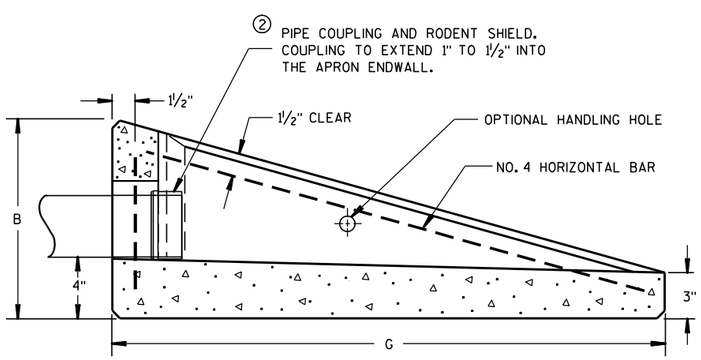
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



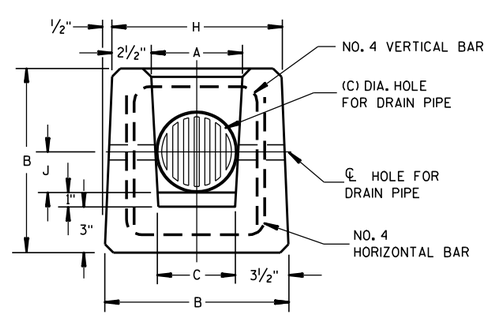
PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS

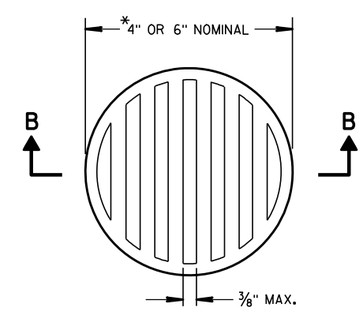


SECTION A-A



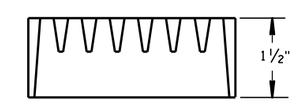
END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN



② RODENT SHIELD

NOTE: ORIENT SHIELD SO SLOTS ARE VERTICAL.



SECTION B-B

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

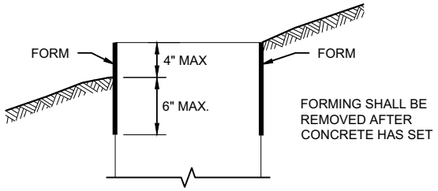
REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/10/98 — DATE
/S/ Rory L. Rhinehart — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 6-4

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

(2) (4) 1" DIA. X 3' - 6" ANCHOR RODS.

(3) (4) 1" DIA. X 5' - 0" ANCHOR RODS.

(4) (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

(5) (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

(6) (4) 1" DIA. X 3' - 6" ANCHOR RODS.

(7) (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

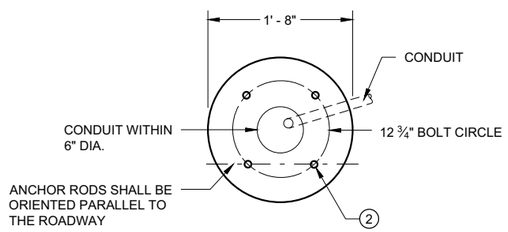
(8) (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

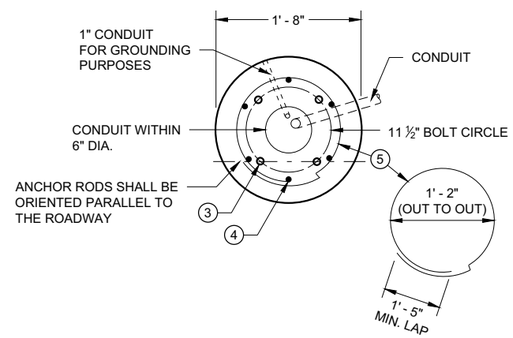
(9) EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

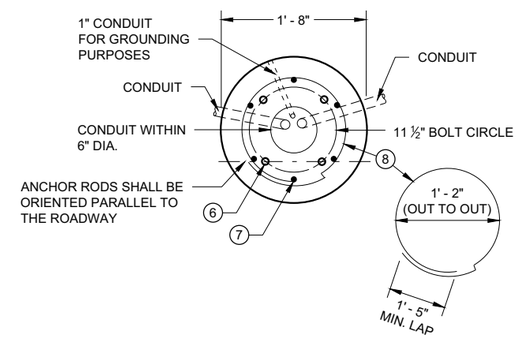
(10) ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

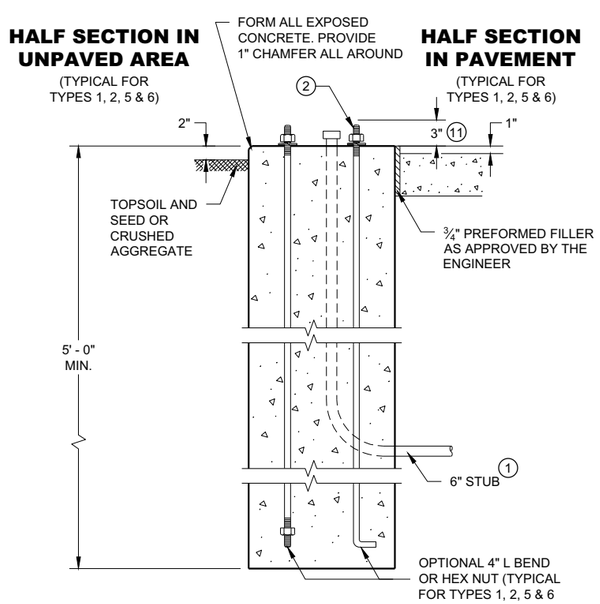
(11) ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

(12) FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

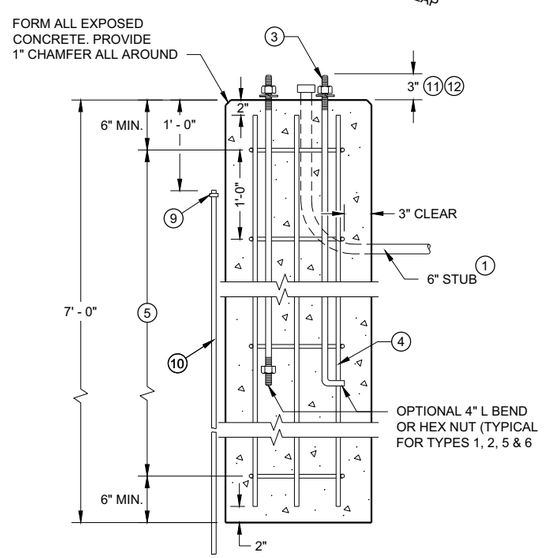




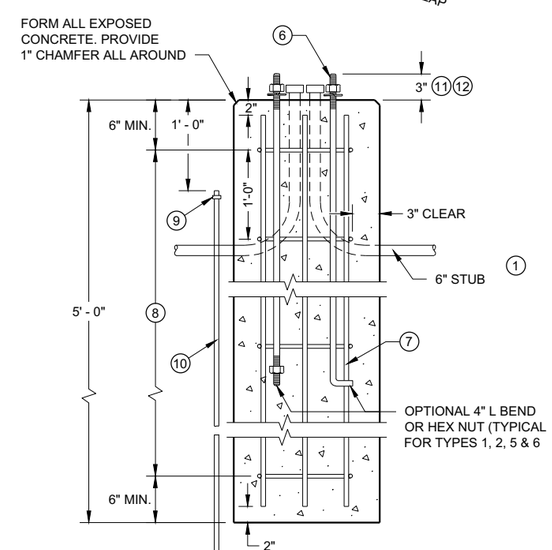




TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGI 348
FHWA

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SDD 09C02 - 09

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SDD 09C02 - 09

GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

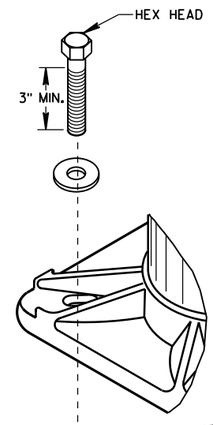
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

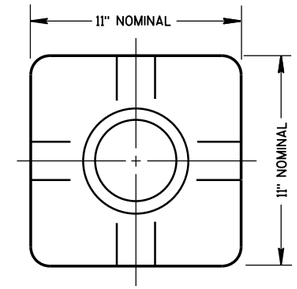
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

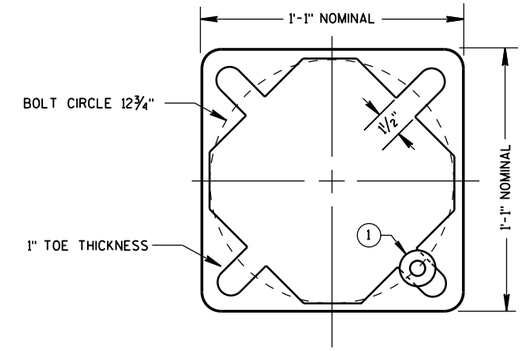
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

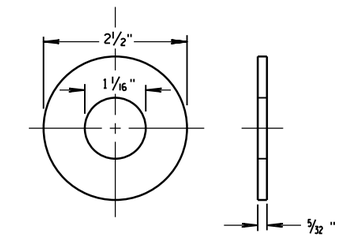




TOP VIEW
(PEDESTAL BASE)

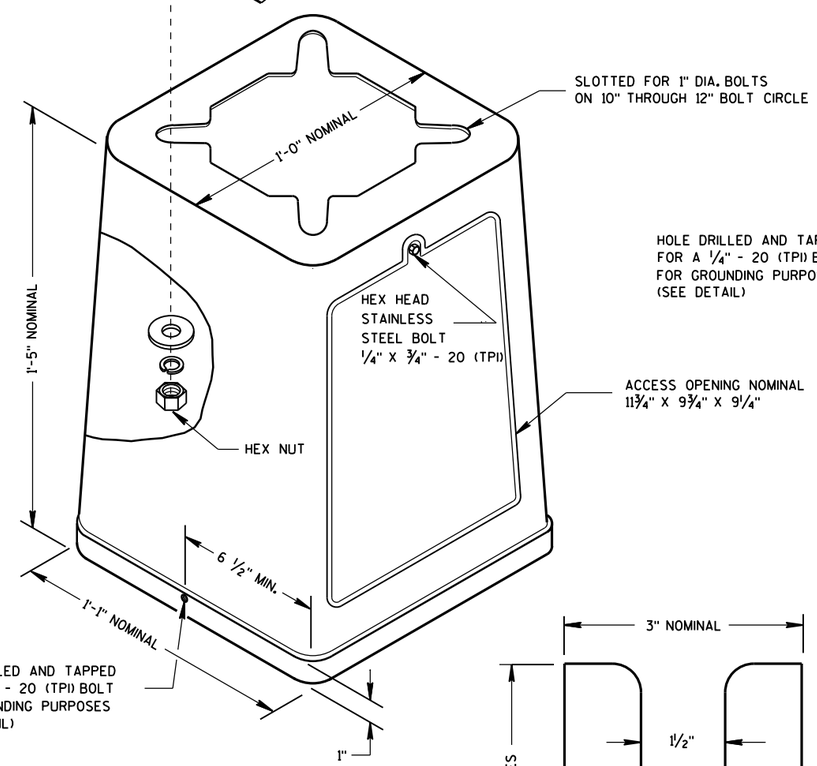


BOTTOM VIEW
(PEDESTAL BASE)

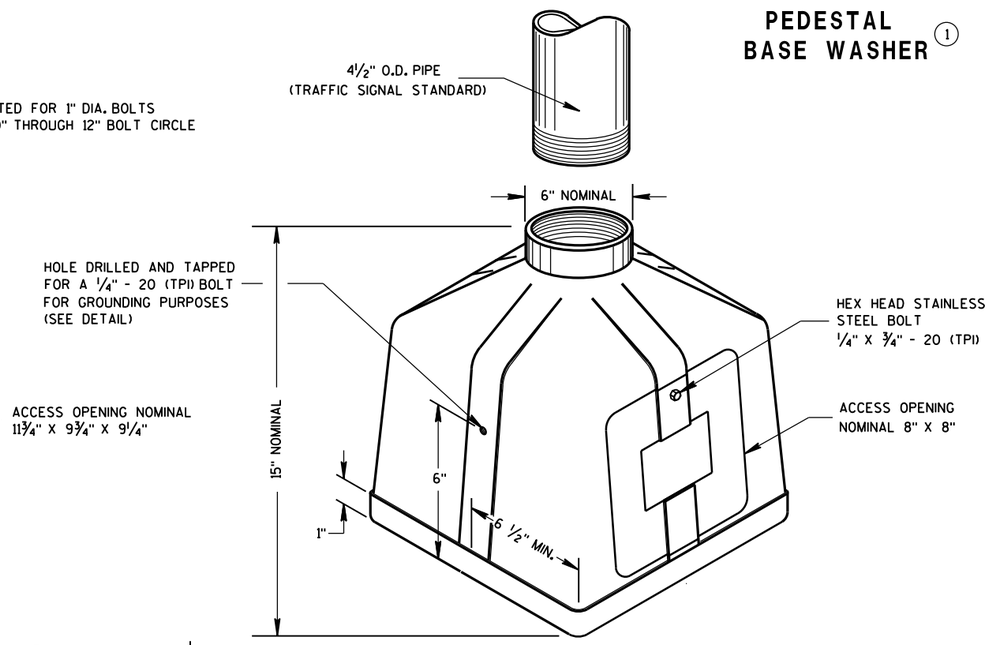


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

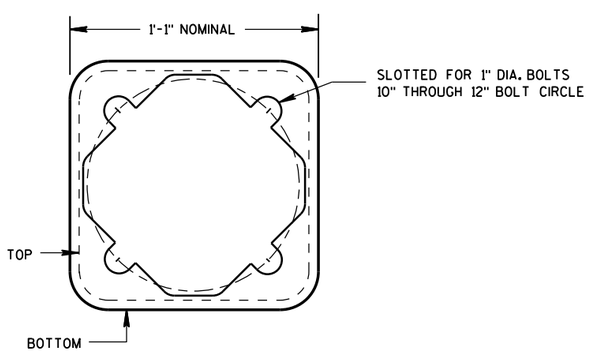
PEDESTAL BASE WASHER (1)



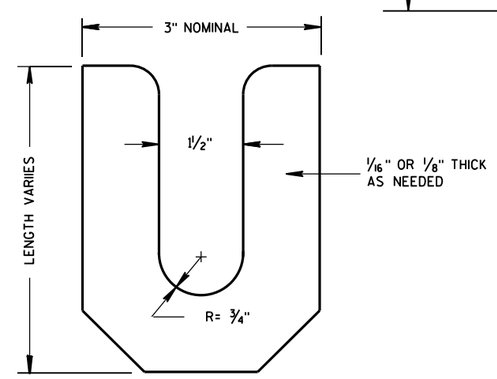
ISOMETRIC VIEW



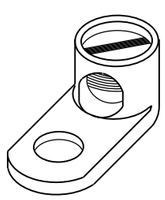
ISOMETRIC VIEW
PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)



LEVELING SHIM



TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES

TRANSFORMER/PEDESTAL BASES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED Sept. 2014 DATE FHWA	/S/ Ahmet Demirbilek STATE ELECTRICAL

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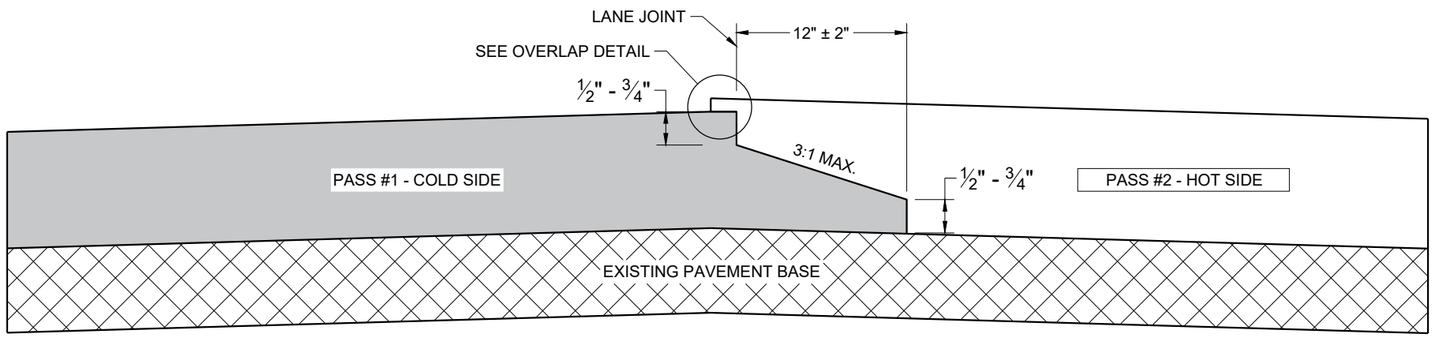
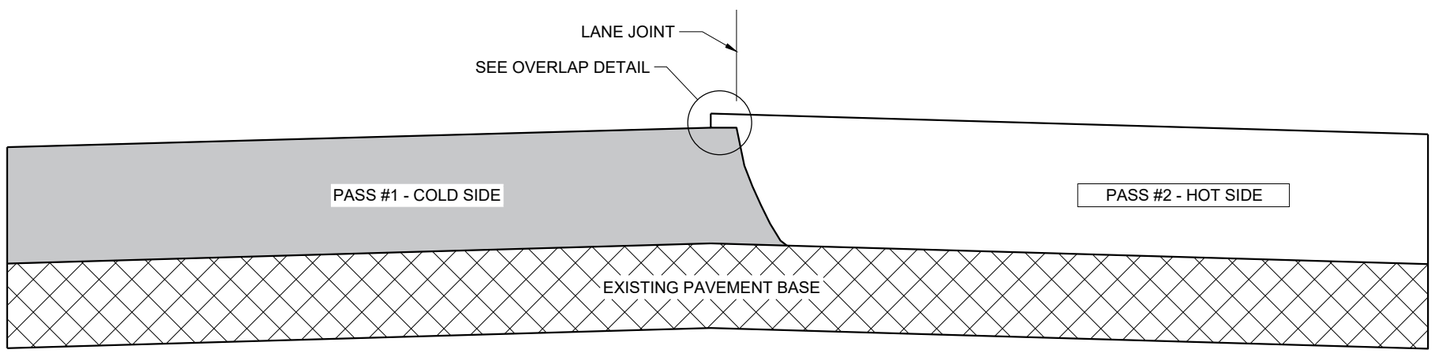
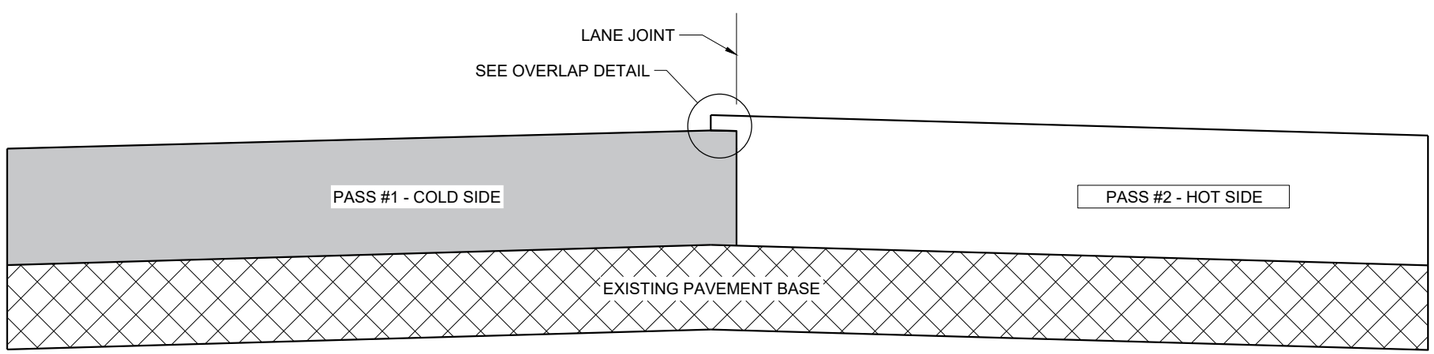
S.D.D. 9 C 3-4



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

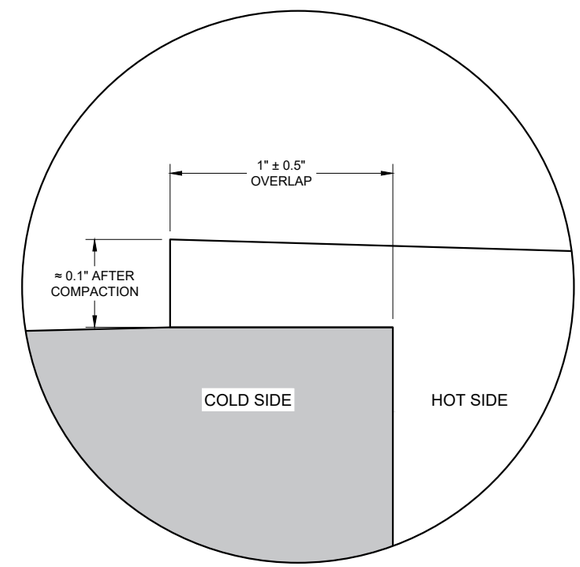
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

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SDD 13C19 - 03

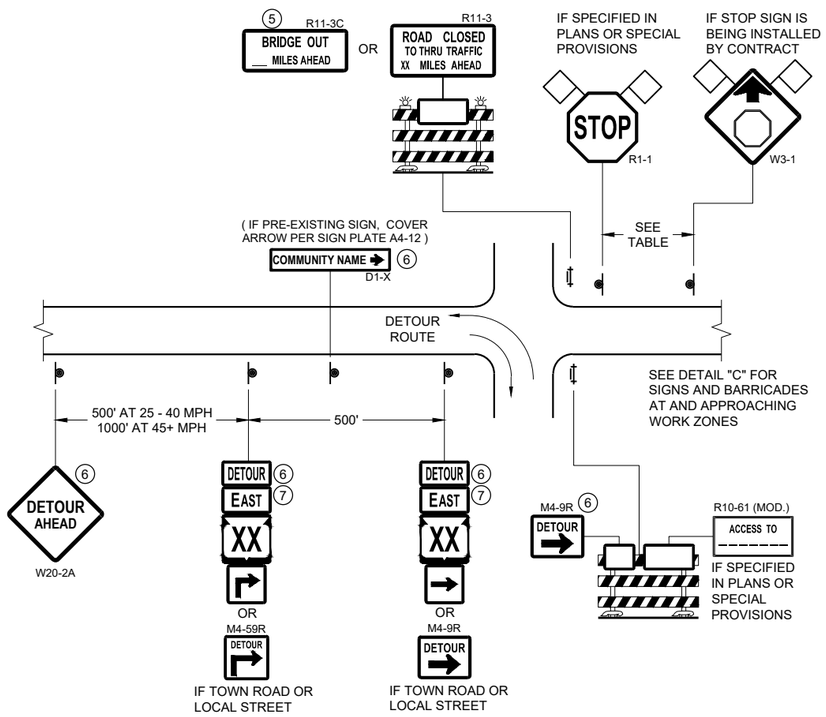
SDD 13C19 - 03

HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

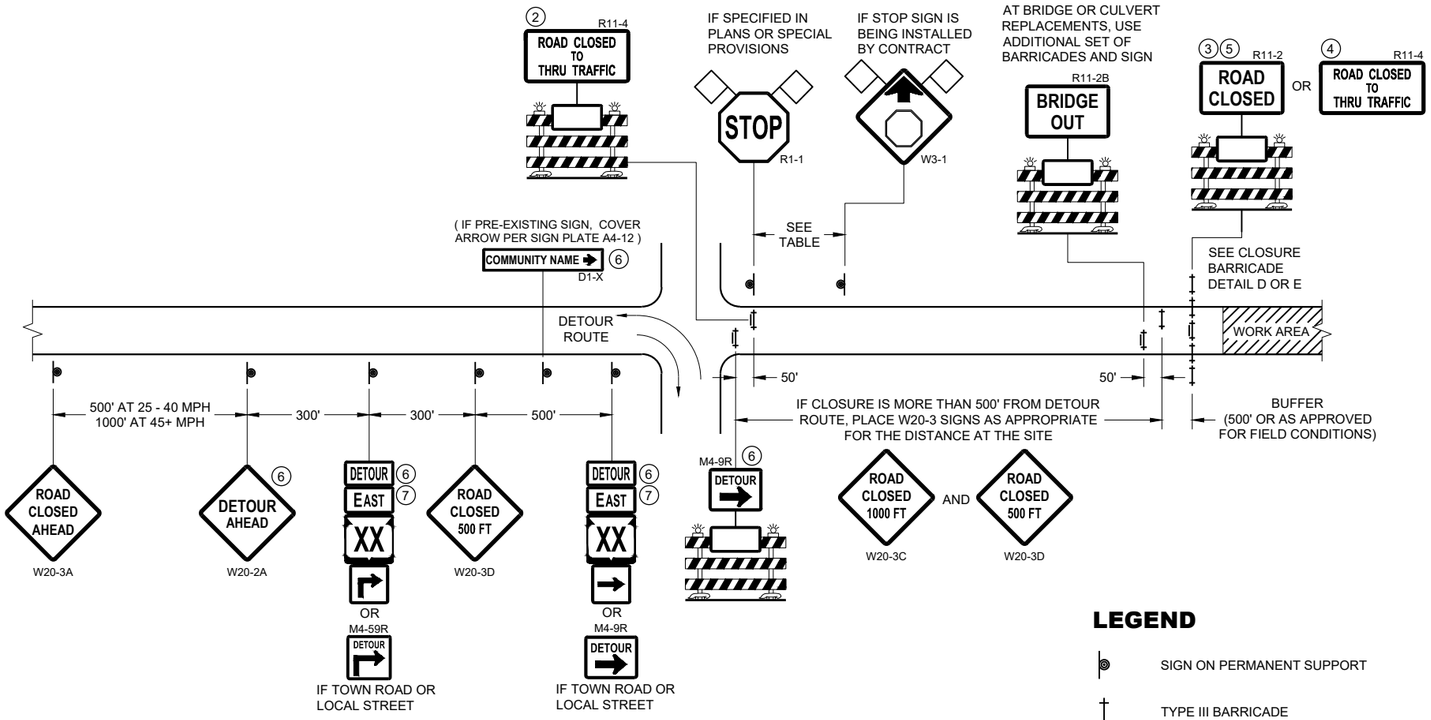
APPROVED
November 2020 /S/ Steven Hefel
DATE HMA PAVEMENT ENGIN

FHWA



DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

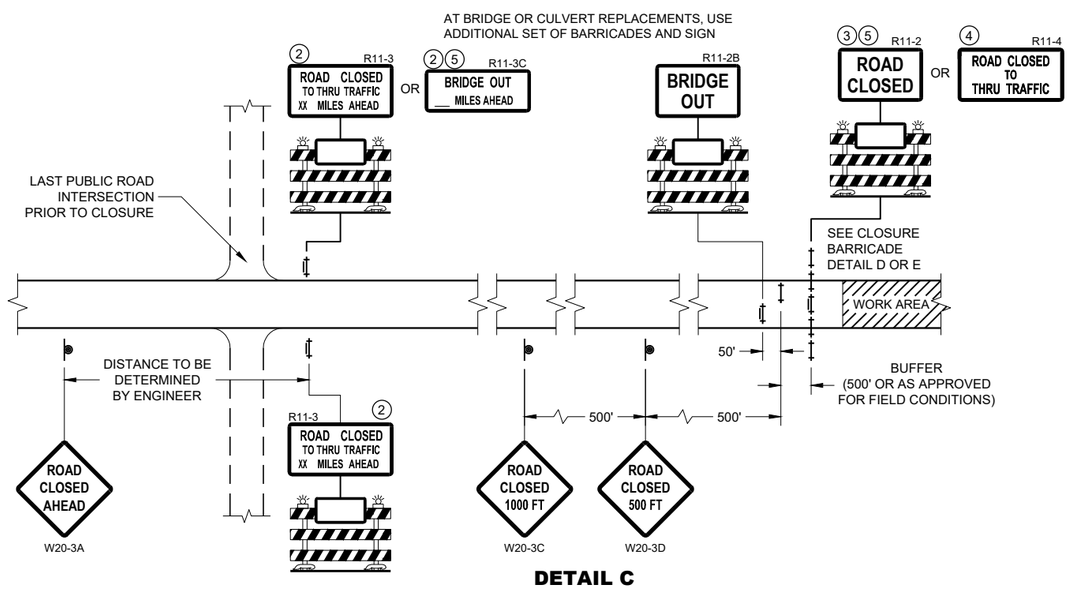


DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX (M1 - 4) OR XX (M1 - 6) OR COUNTY X (M1 - 5A)
- M05 - 1 OR M06 - 1



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b" FOR GENERAL NOTES AND FOOTNOTES 1 THROUGH 7

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

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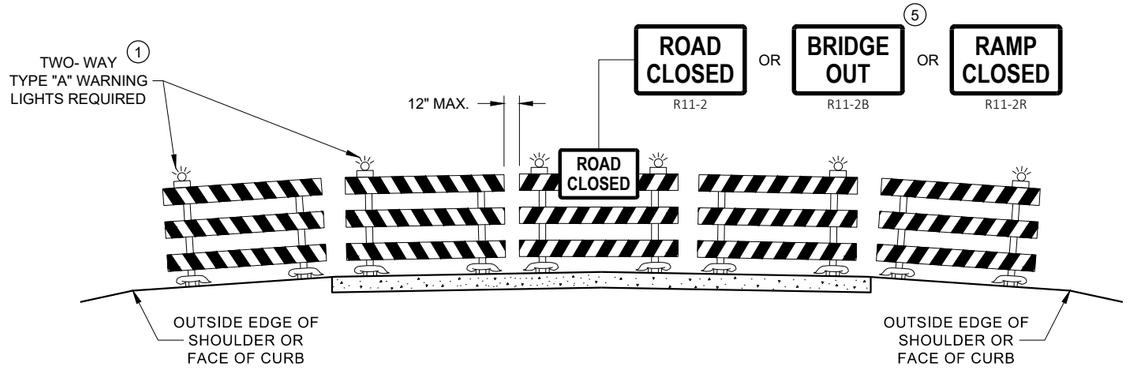
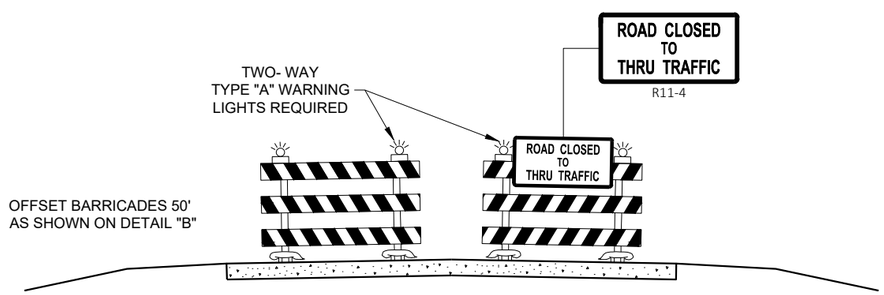
SDD 15C02 - 09a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

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.

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, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

1. TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
2. THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
3. FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
4. FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
5. FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
6. INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
7. "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

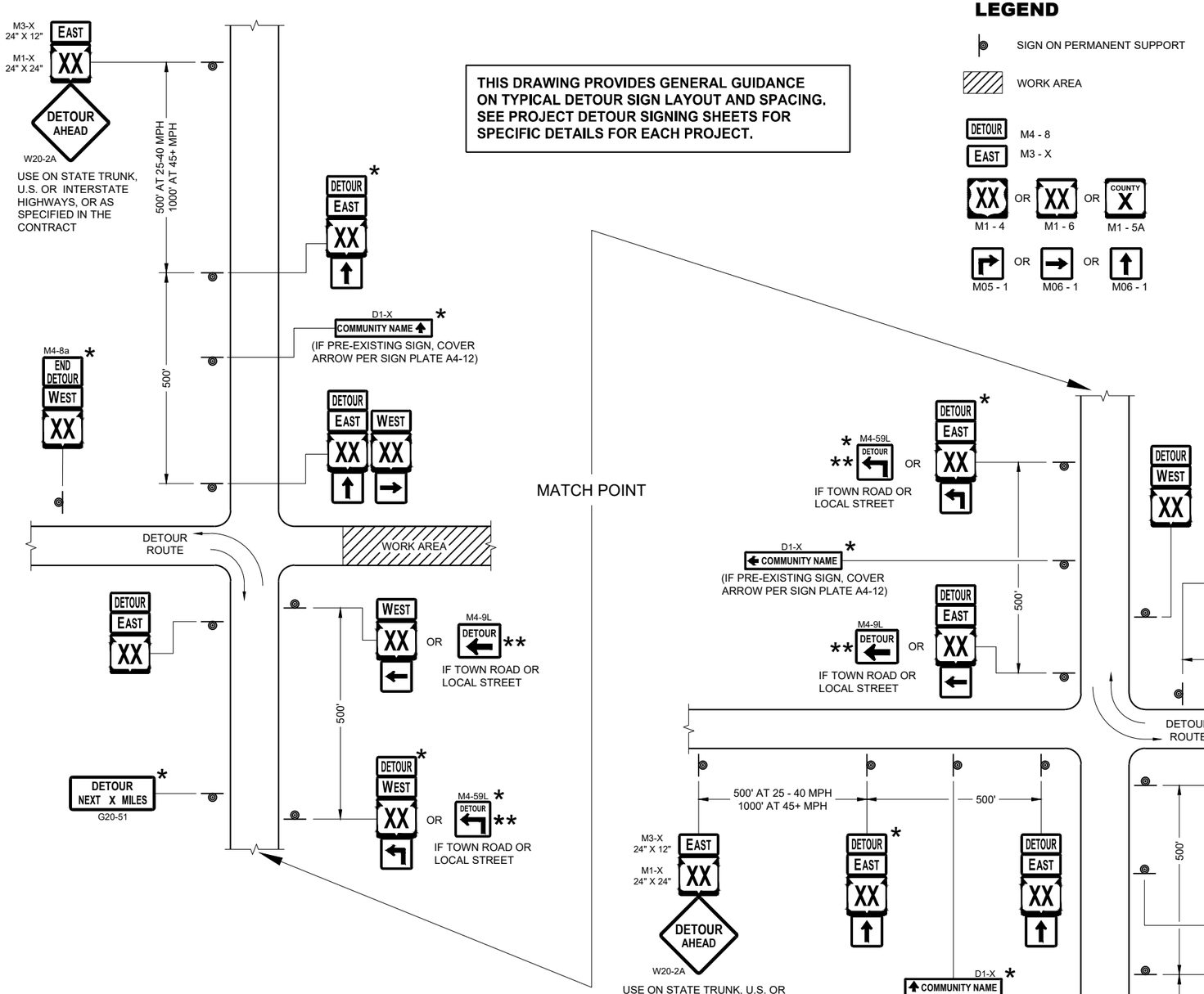
BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA

6
SDD 15C02 - 09b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.



SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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.

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

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
M4-9 AND M4-59 SHALL BE 30" X 24"
M4-8a SHALL BE 24" X 18"
G20-51 SHALL BE 60" X 24"
W20-2A SHALL BE 48" X 48"
D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

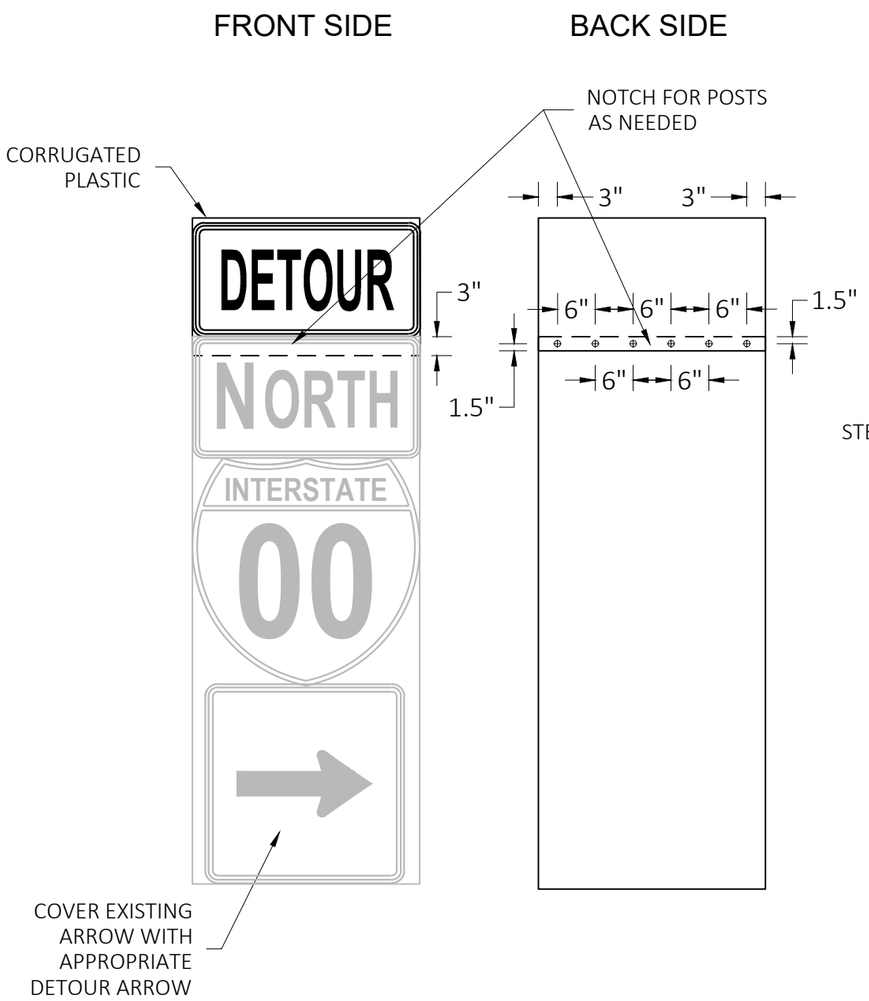
* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

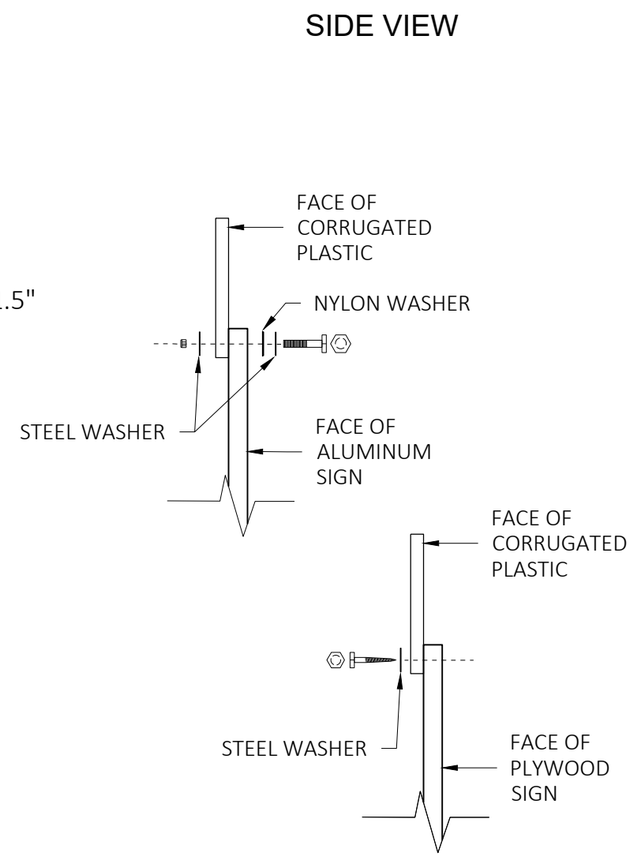
** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — /S/ Andrew Heidtke
DATE — WORK ZONE ENGINEER
FHWA





GENERAL NOTES

CELLS OF CORRUGATED PLASTIC SHALL BE VERTICALLY ORIENTED.

PROVIDE A 0.4-INCH THICK BASE CORRUGATED PLASTIC WITH A 0.035-INCH WALL THICKNESS AND 0.4-INCH CELL SIZE.

FOR 36" WIDE SIGNS: USE 6 FASTENERS AS SHOWN.

FOR 24" WIDE SIGNS: USE 4 FASTENERS WITH EDGE SPACING AS SHOWN AND 6" SPACING BETWEEN FASTENERS.

METAL WASHERS, NUTS, BOLTS AND LAGS 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, SC3

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.

PLYWOOD SIGNS:
LAG SCREWS - 5/16" x 1"
ALUMINUM SIGNS:
MACHINE BOLTS - 5/16" x 1-1/4" LENGTH W/NUTS
WASHERS:
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

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

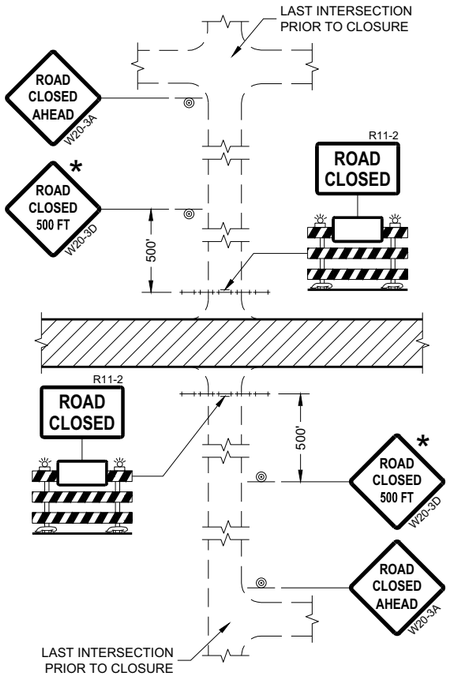
MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

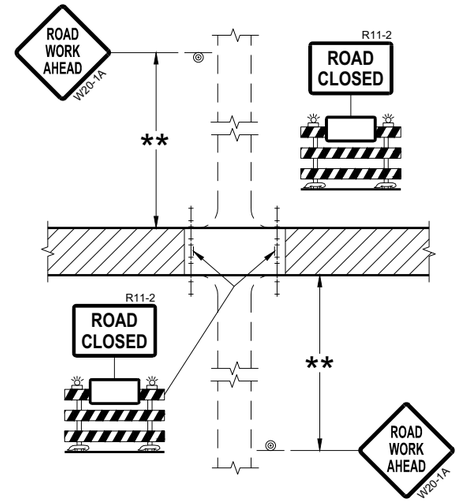
APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — ROADWAY STANDARDS DEVEL ENGINEER
FHWA

6

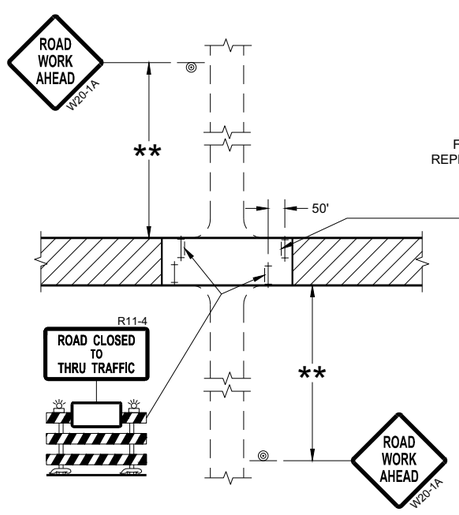
SDD 15C02-09h



DETAIL 1
(NO ACCESS TO PROJECT)



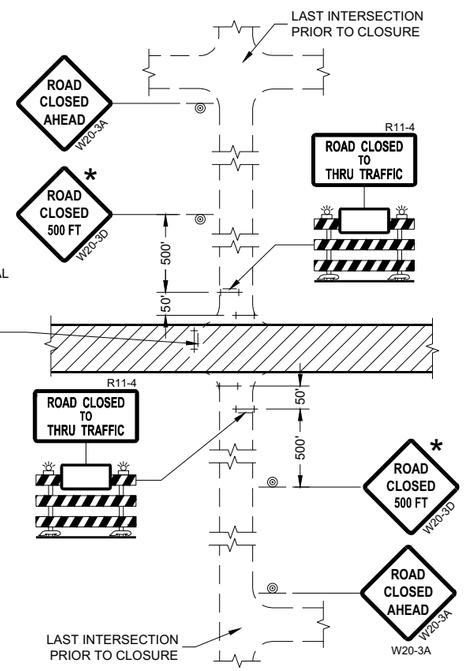
DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



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

FOR BRIDGE OR CULVERT
REPLACEMENT, USE ADDITIONAL
SIGN ON BARRICADE

BRIDGE OUT
XX MILES AHEAD
R11-3C



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 (500 FEET DESIRABLE) 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 REESTABLISHED.

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

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN 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 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

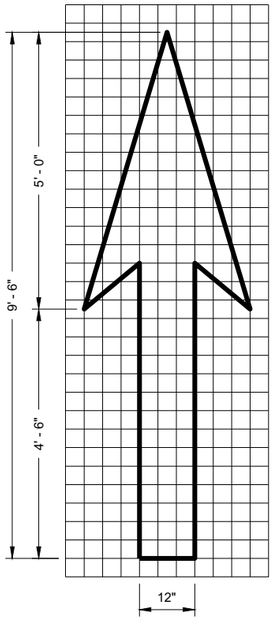
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA

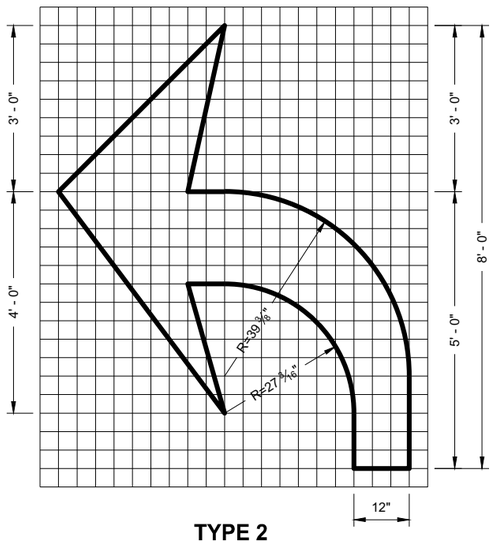
6
SDD 15C03 - 05

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 1



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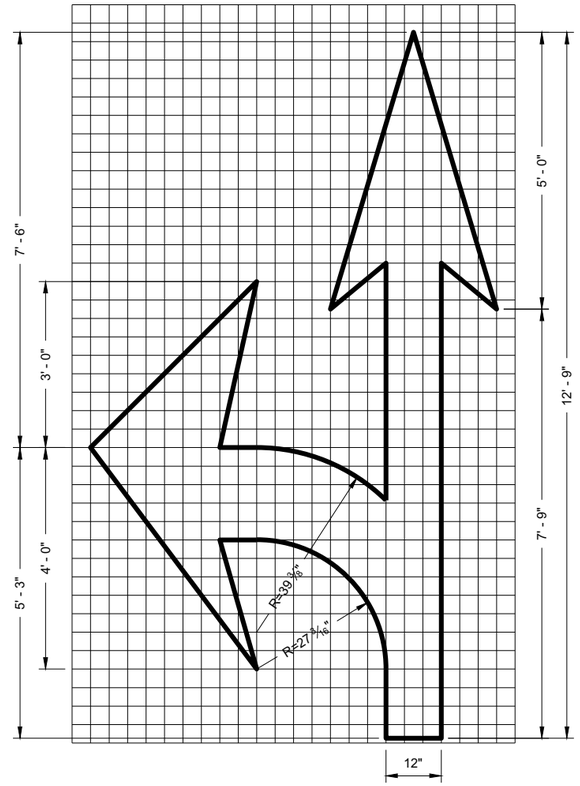

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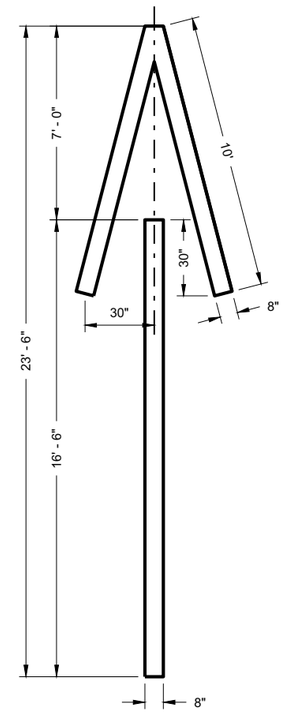
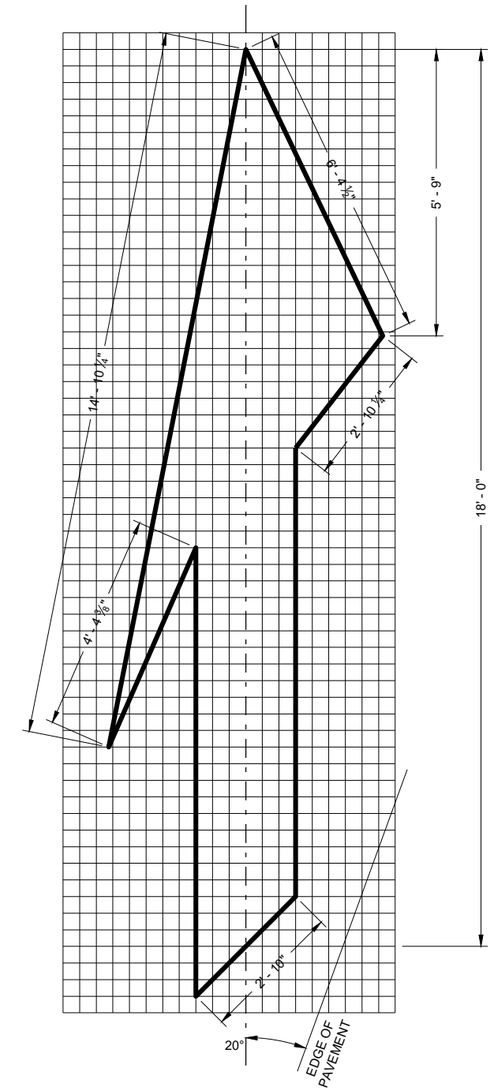
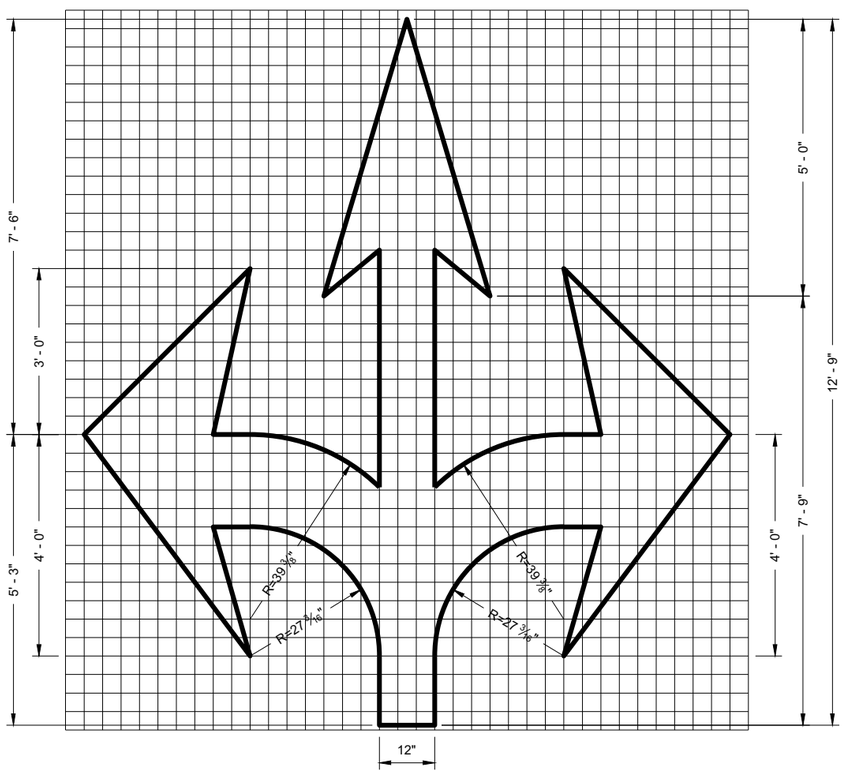


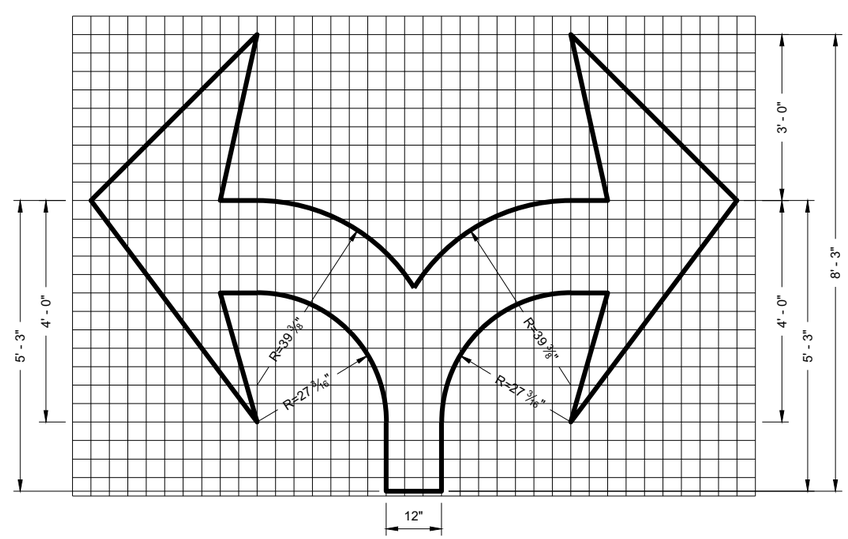
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

6

6

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAR ENGINEER
FHWA

SDD 15C07 - 15c

SDD 15C07 - 15c

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

GENERAL NOTES

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

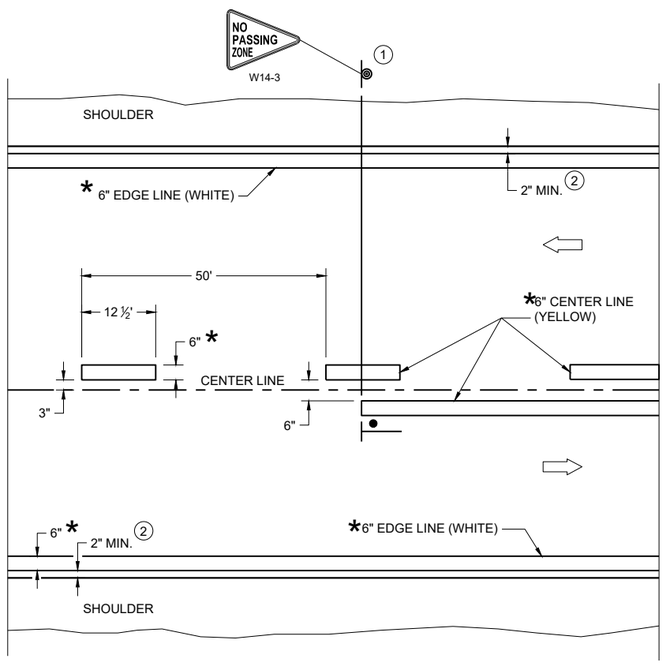
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

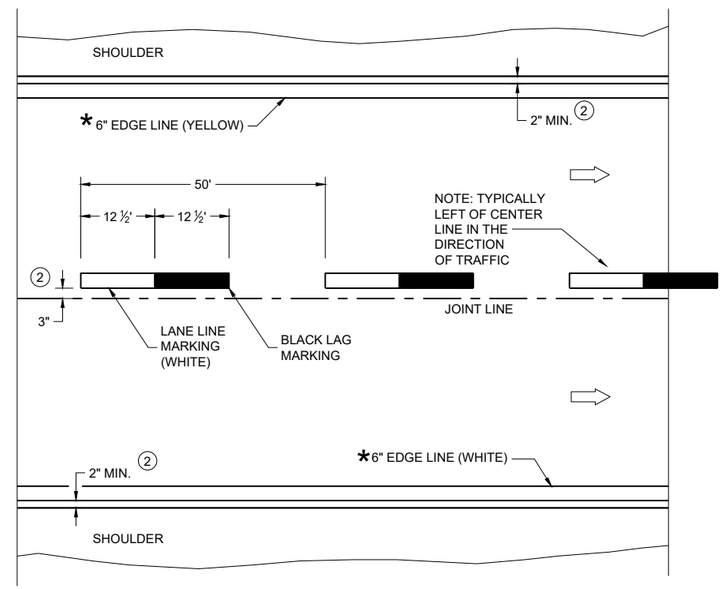
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

6

6

SDD 15C08-23a

SDD 15C08-23a

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023 — DATE

/S/ Jeannie Silver — Statewide Pavement Marking Engineer

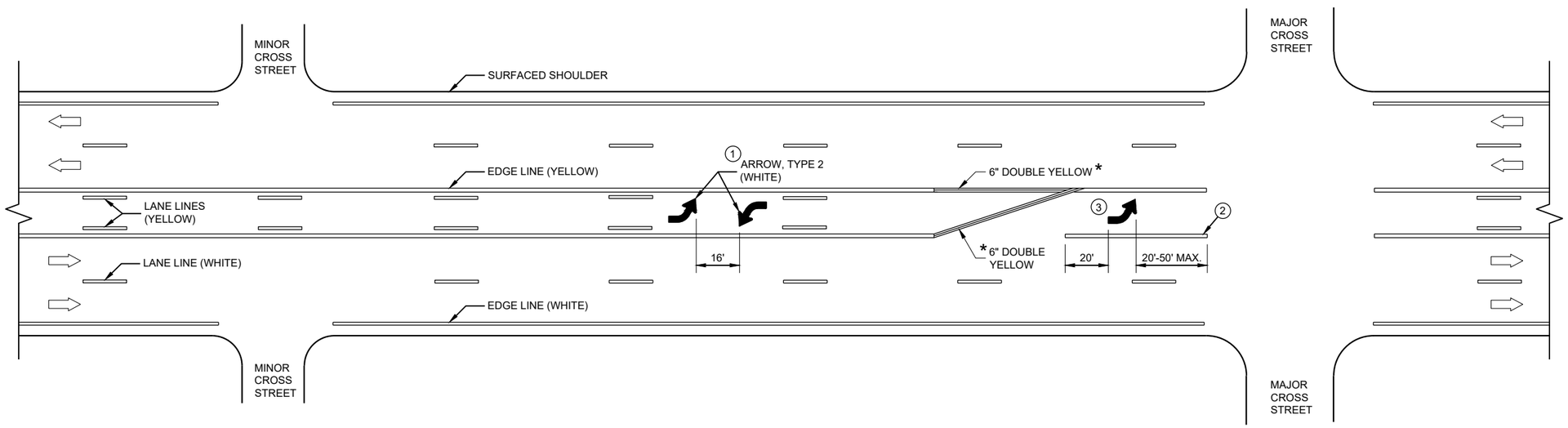
FHWA

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 10" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

⇨ DIRECTION OF TRAFFIC

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



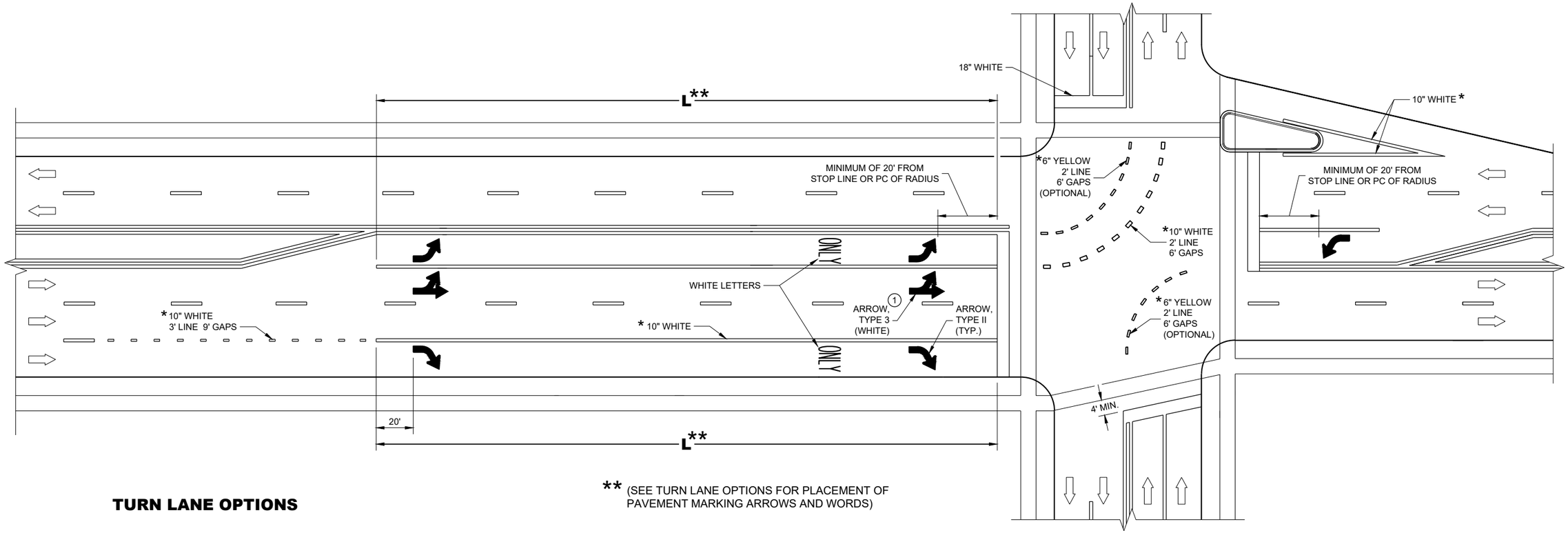
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

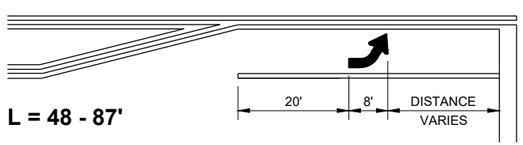
SDD 15C08-23c

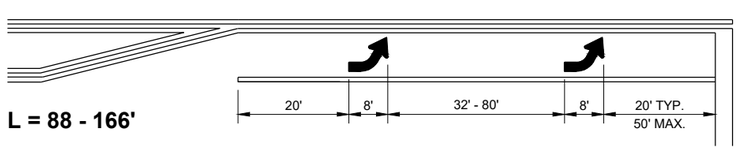


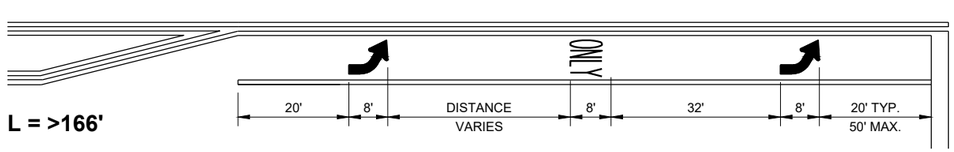
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

LENGTH OF TURN BAY (L) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS







GENERAL NOTES

1. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

⇨ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

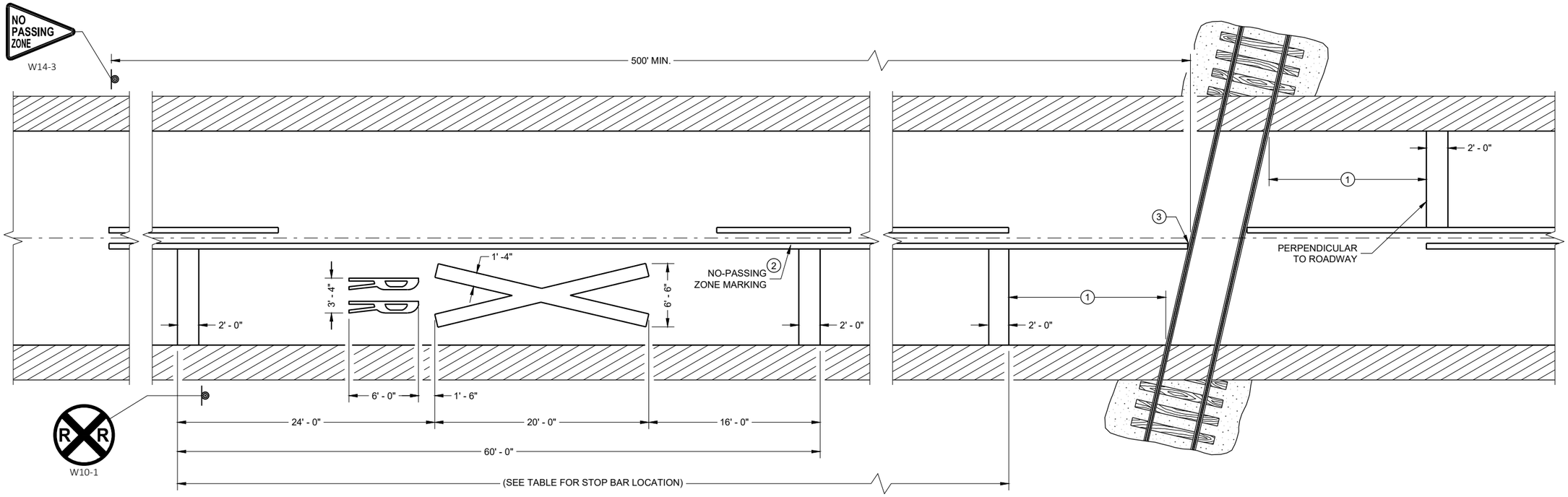
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING (TURN LANES)

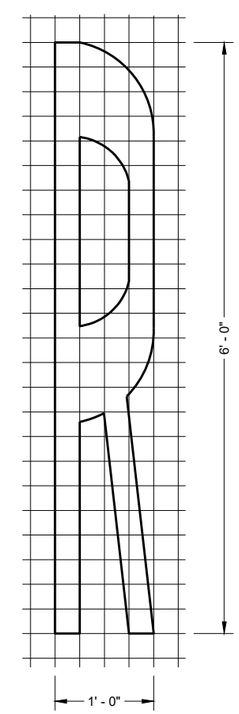
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C08-23d



PAVEMENT MARKING



LEGEND

SIGN ON PERMANENT SUPPORT

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.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

TRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

1. PLACE STOP BAR APPROXIMATELY 8 FEET IN ADVANCE OF THE GATE (IF PRESENT), BUT NO CLOSER THAN 15 FEET IN ADVANCE OF THE NEAREST RAIL. FIELD-FIT STOP BAR TO MAXIMIZE VIEW OF APPROACHING TRAIN.
2. 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.
3. FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

DISTANCE TABLE

TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

POSTED SPEED (M.P.H.)	DIMENSION RANGE (FEET)
25	150* - 250'
30	200* - 300'
35	250* - 450'
40	300* - 500'
45	400* - 650'
50	550* - 800'
55	750* - 1000'
60	1000* - 1250'
65	1000* - 1250'

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSED PROXIMITY OF DRIVEWAYS, BRIDGES, SIDE ROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.

SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS

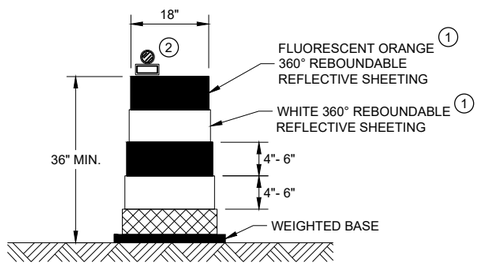
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR ENGINEER
FHWA

6
SDD 15C09-13a

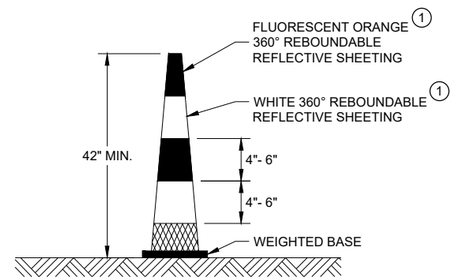
GENERAL NOTES

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.



DRUM

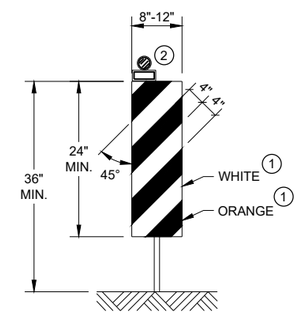
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

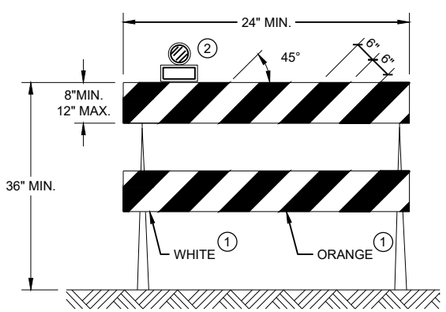
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



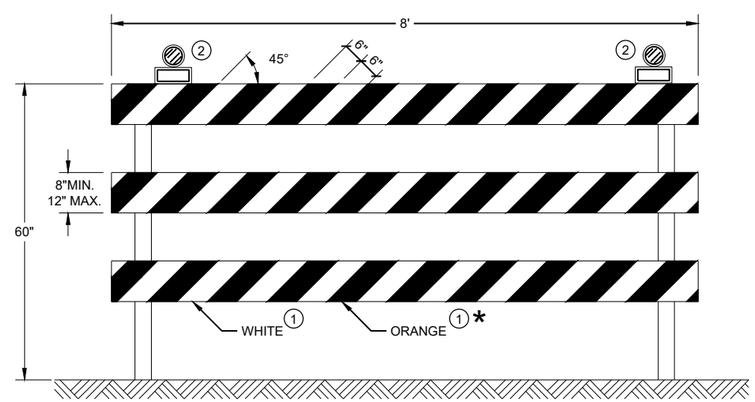
VERTICAL PANEL

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



TYPE II BARRICADE

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



TYPE III 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
November 2022 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEE
FHWA

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SDD 15C11 - 10b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

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

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

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

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

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

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

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

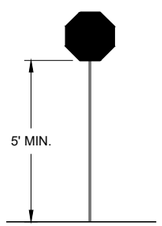
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



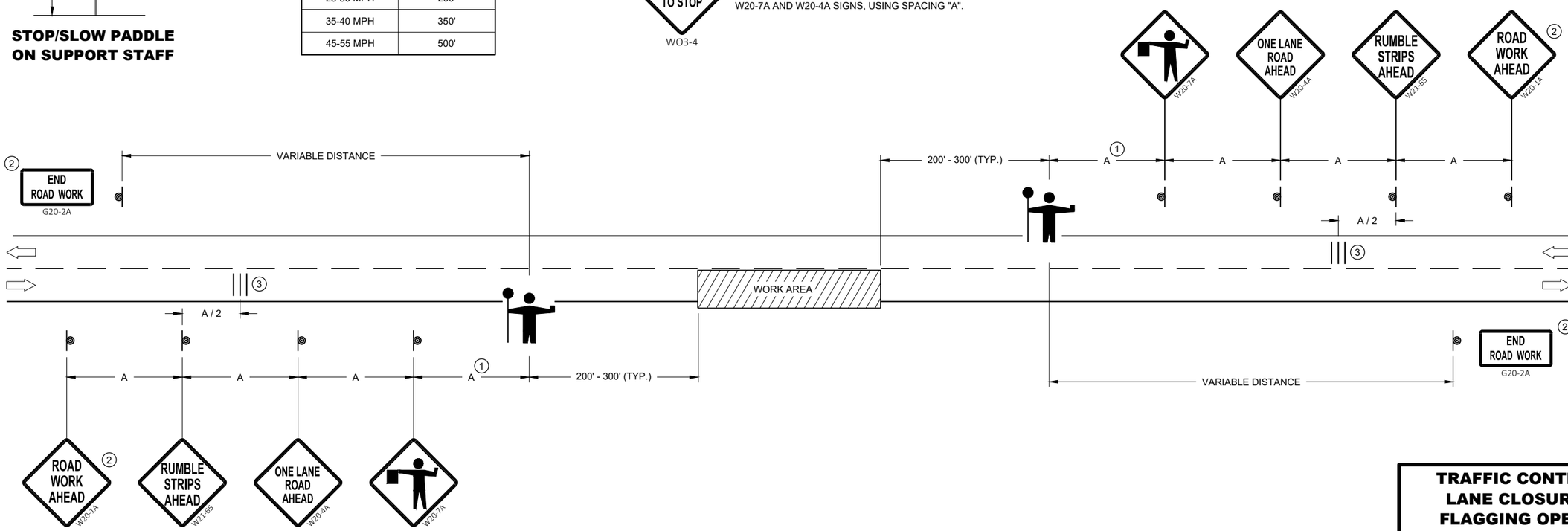
STOP/SLOW PADDLE ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA

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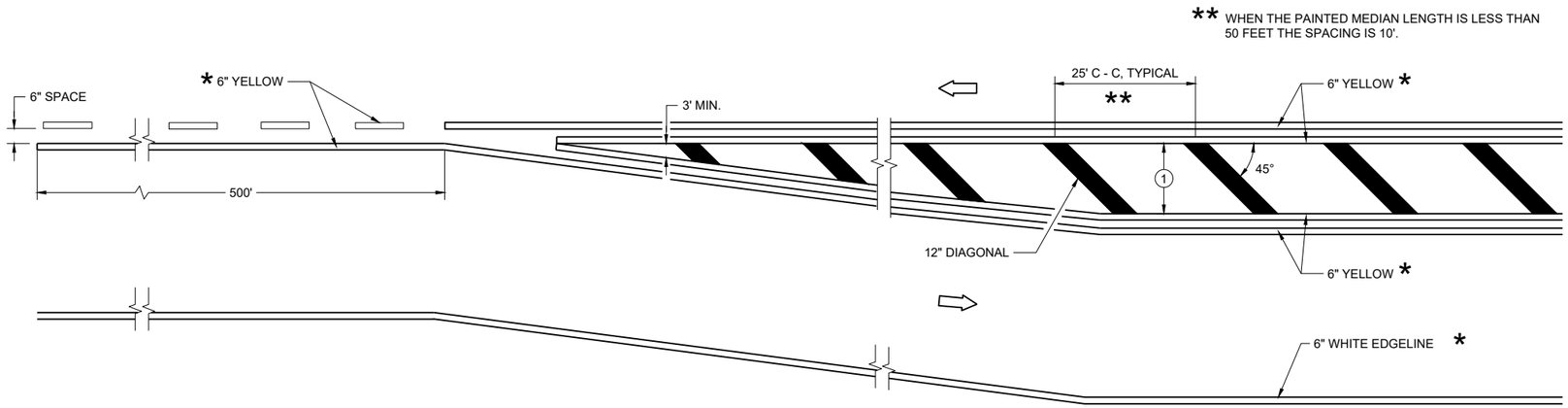
SDD 15C12 - 09a



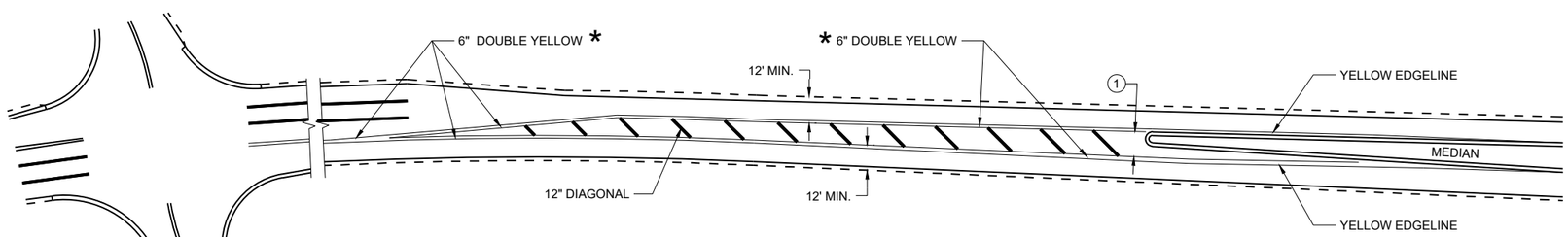
MEDIAN ISLAND DETAIL

GENERAL NOTES

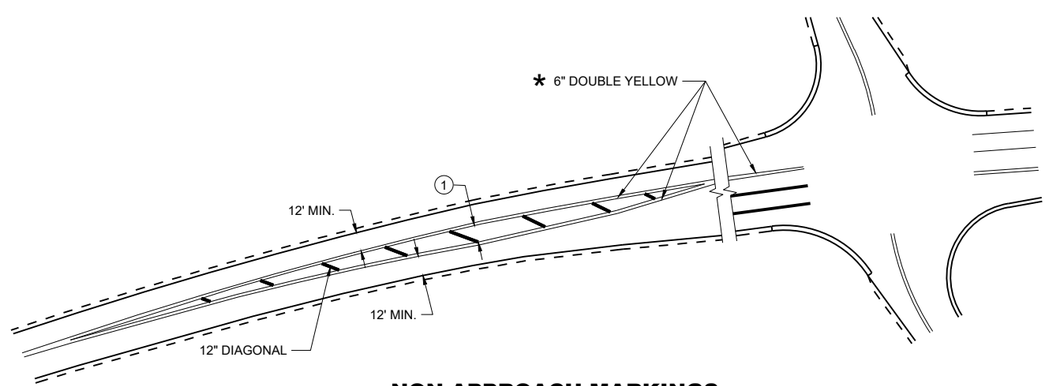
1. DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

⇨ DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024 — DATE
/S/ Jeannie Silver — Statewide Pavement Marking Engineer
FHWA

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SDD 15C18-09a

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED

GENERAL NOTES

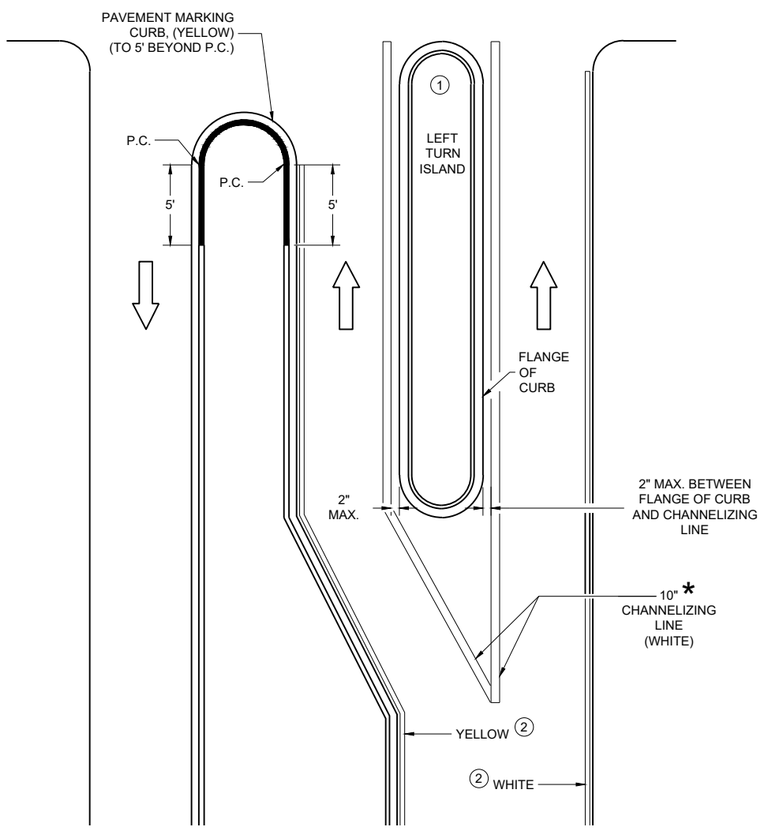
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

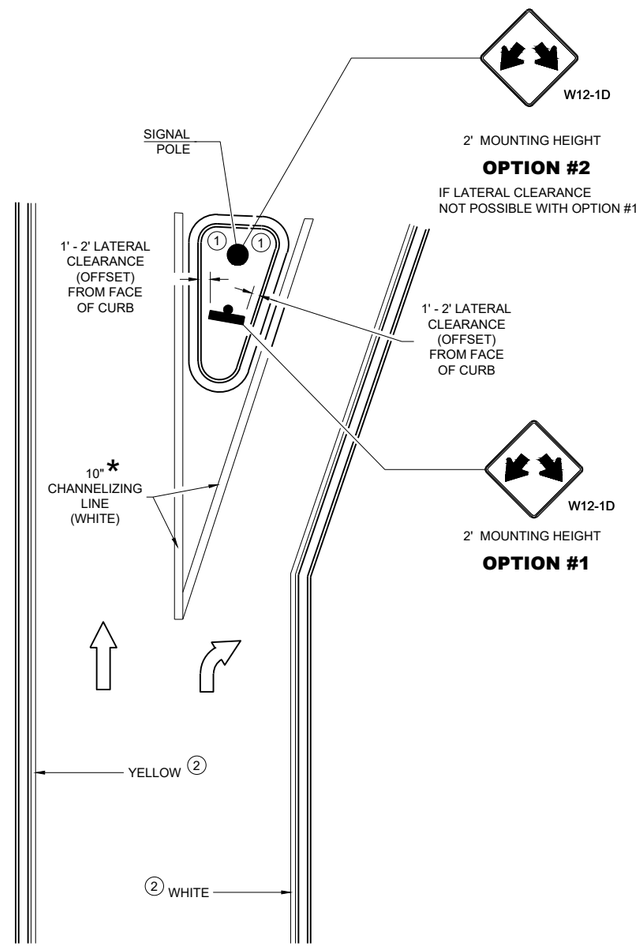
1. MARK CURB NOSES YELLOW.
2. MARK ACCORDING TO TABLE.
3. CHEVRON MAY BE OMITTED IF LESS THAN 4" WIDE

⇨ DIRECTION OF TRAVEL

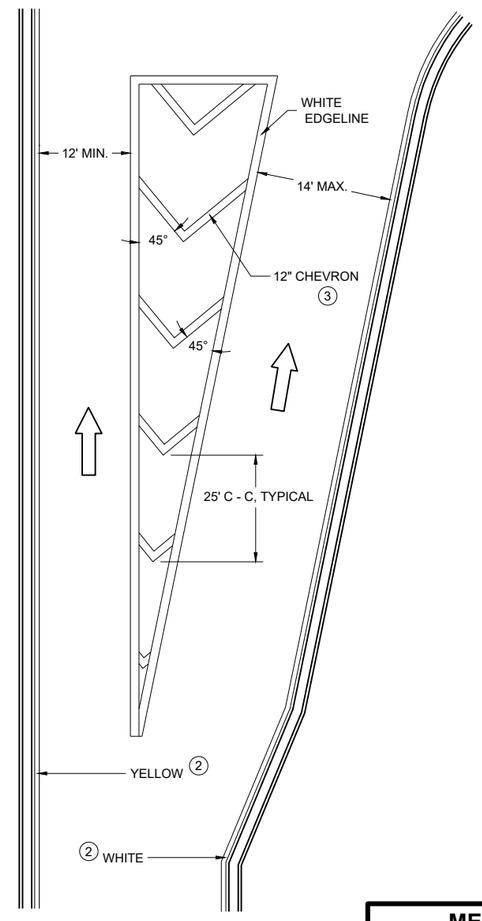
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND



TURN LANE DETAIL

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024 — DATE
/S/ Jeannie Silver — Statewide Pavement Marking Engineer
FHWA

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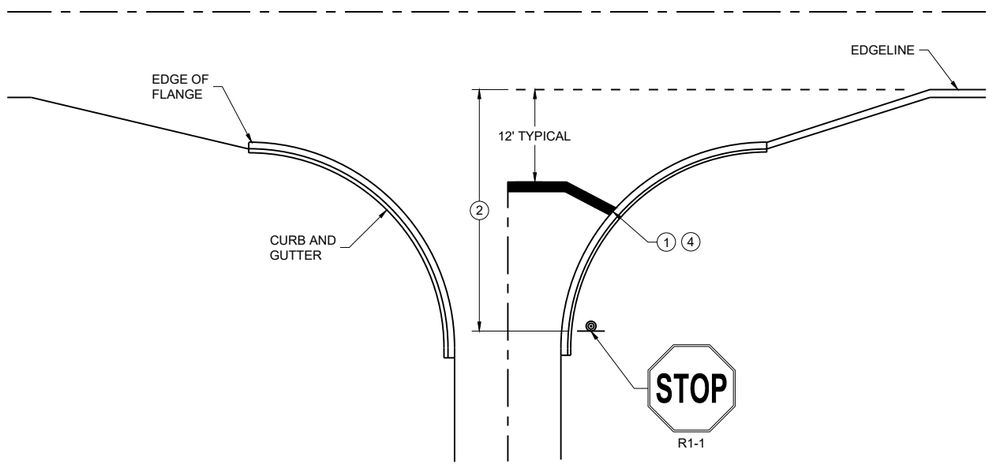
SDD 15C18-09c

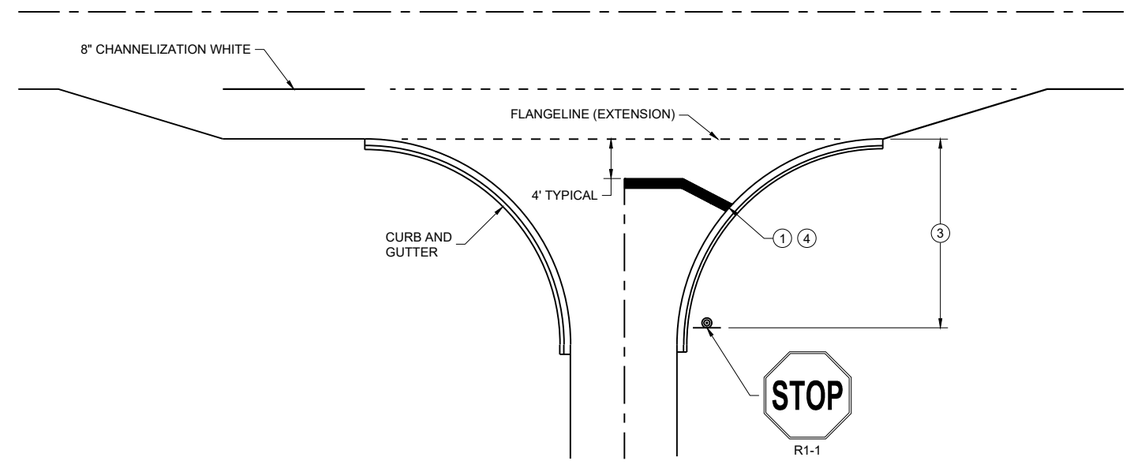
GENERAL NOTES

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

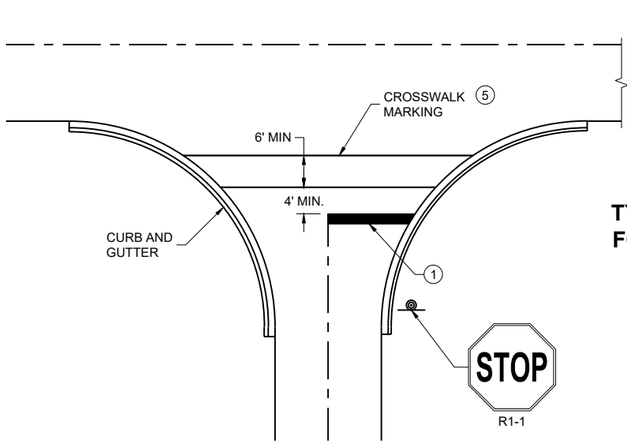
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES.
6. POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS



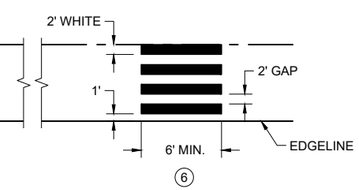
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



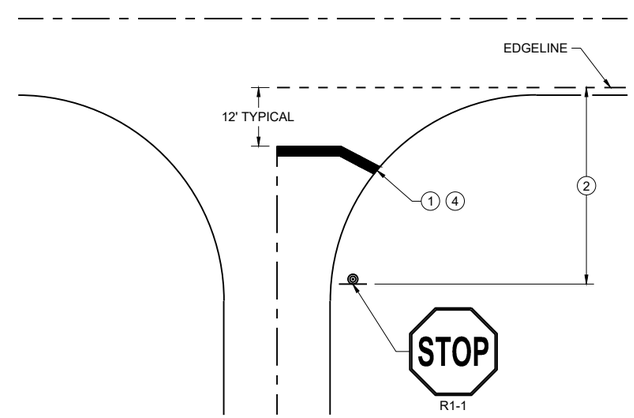
TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH CROSSWALK MARKING



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5



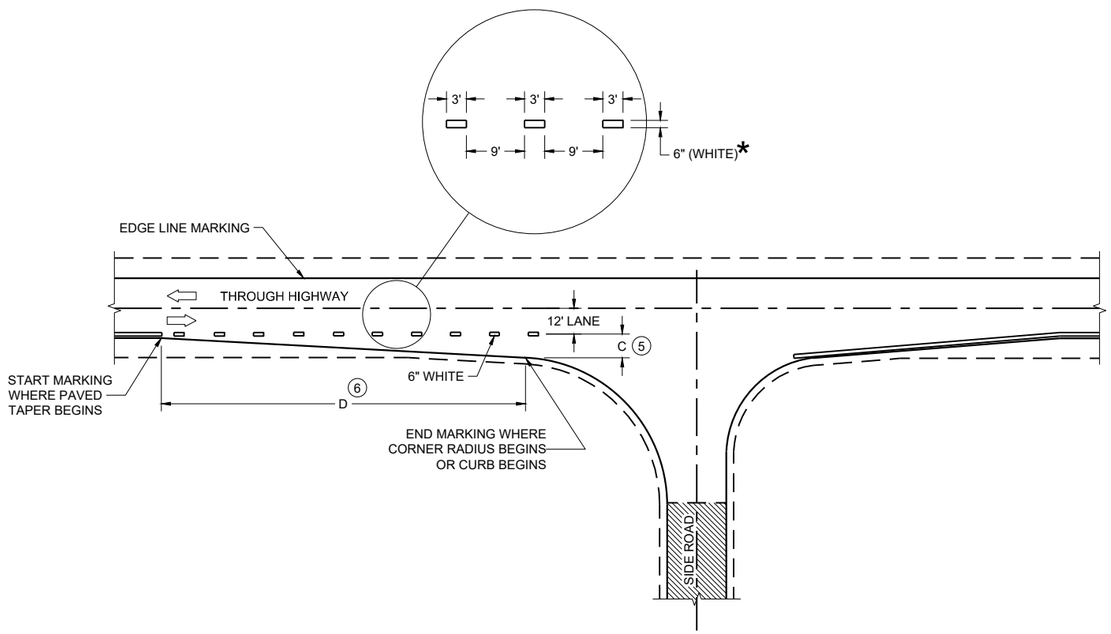
TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA



MINOR INTERSECTION

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

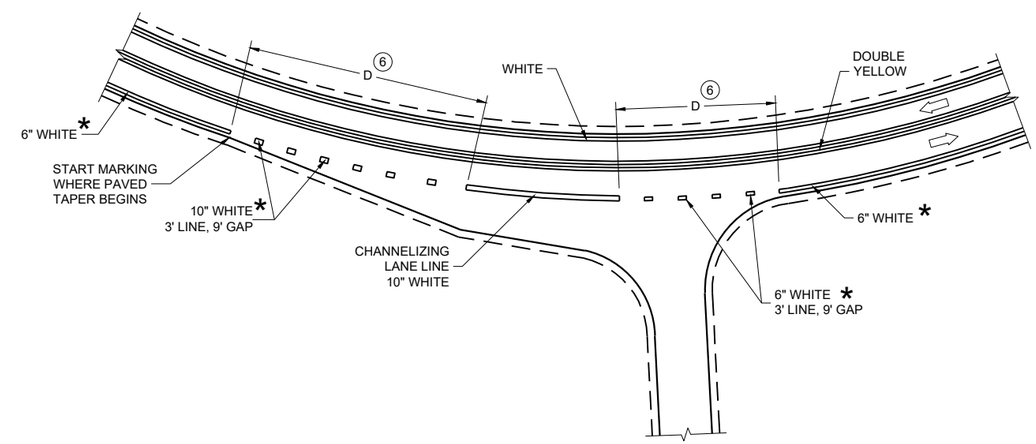
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

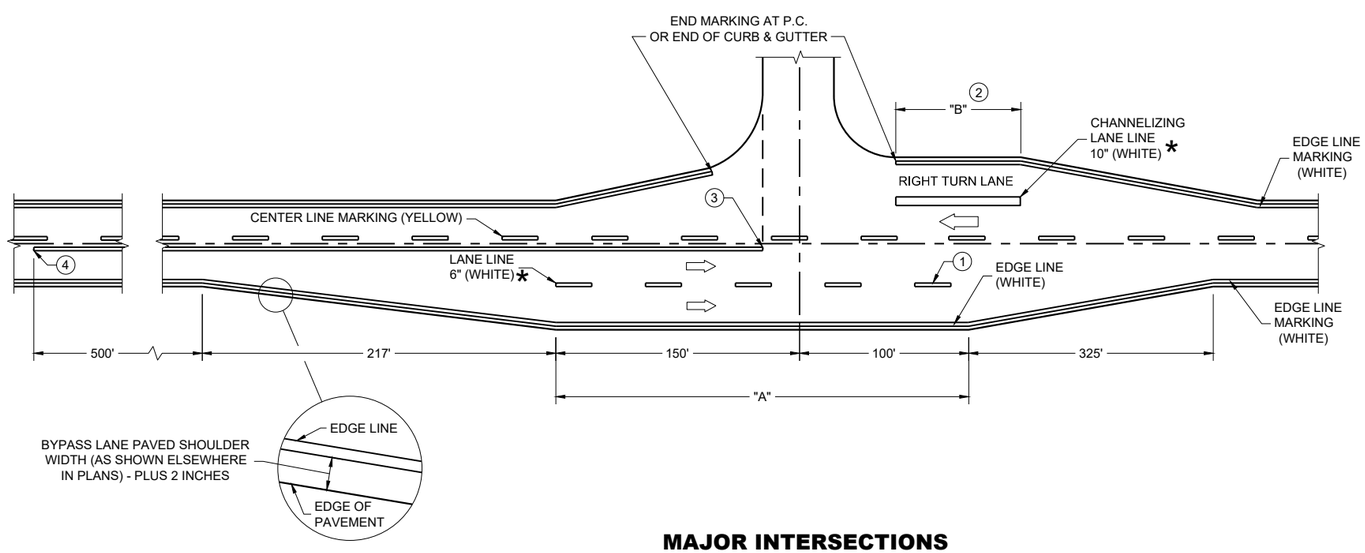
1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
6. WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

⇨ DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

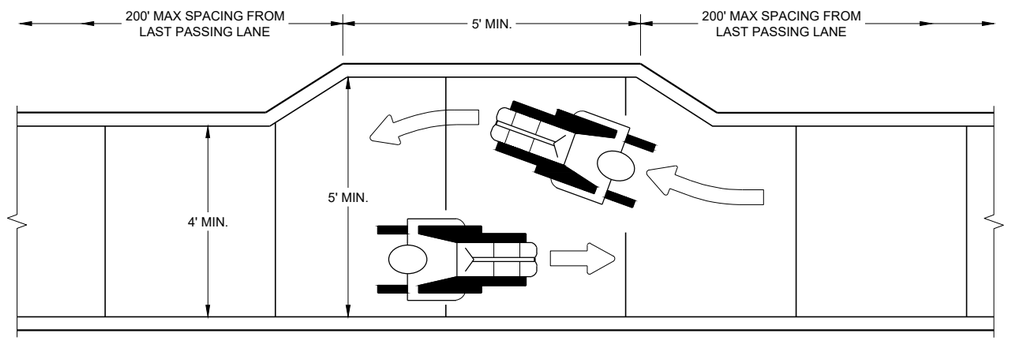
6
SDD 15C35-06a

GENERAL NOTES

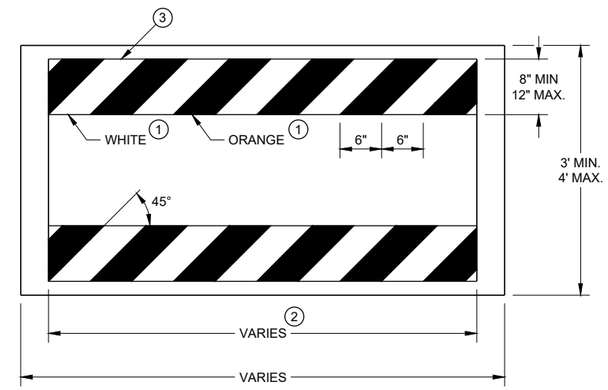
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
3. PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

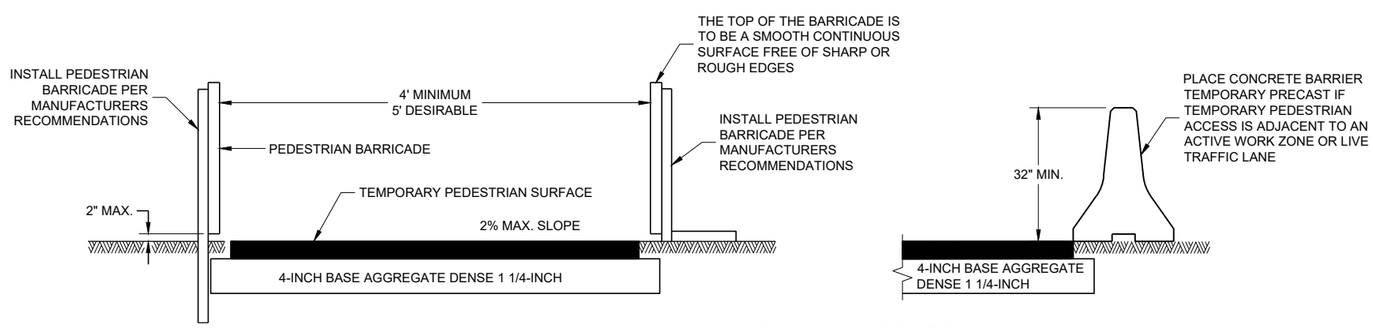
* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN BARRICADE*



TEMPORARY PEDESTRIAN ACCESS

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SDD 15D30 - 09a

SDD 15D30 - 09a

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT

GENERAL NOTES

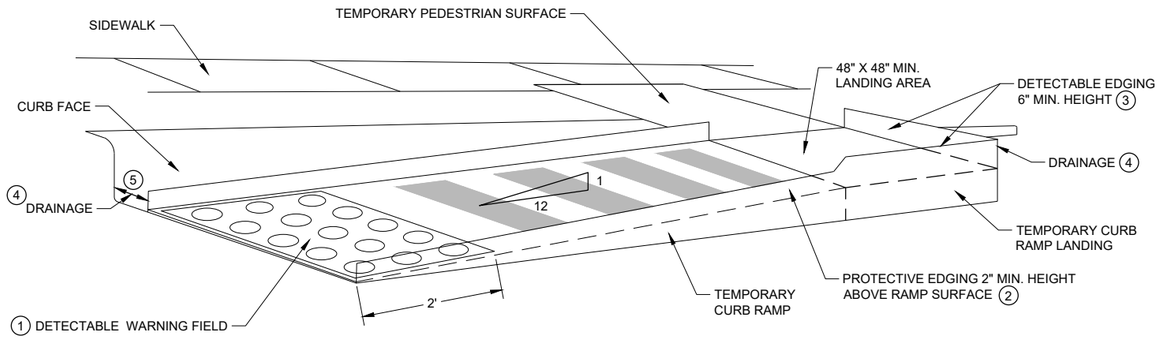
CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

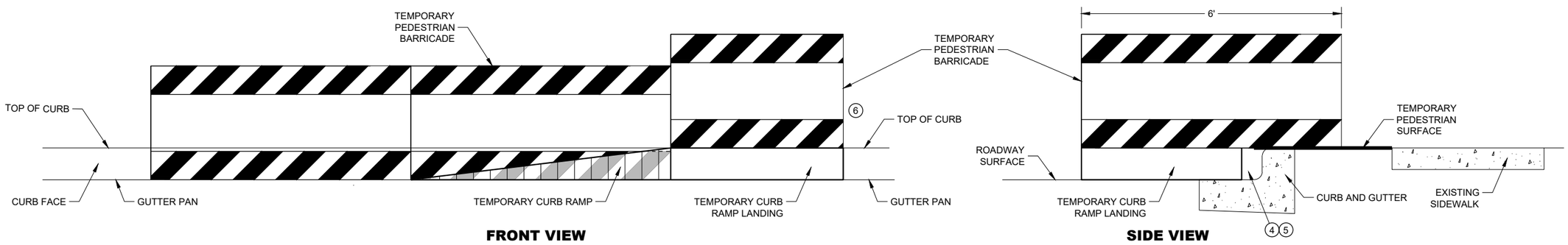
CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

1. INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
5. ENSURE CURB RAMP IS OUT OF THE GUTTER PAN.
6. IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



PERSPECTIVE VIEW



FRONT VIEW **SIDE VIEW**

TEMPORARY CURB RAMP PARALLEL TO CURB

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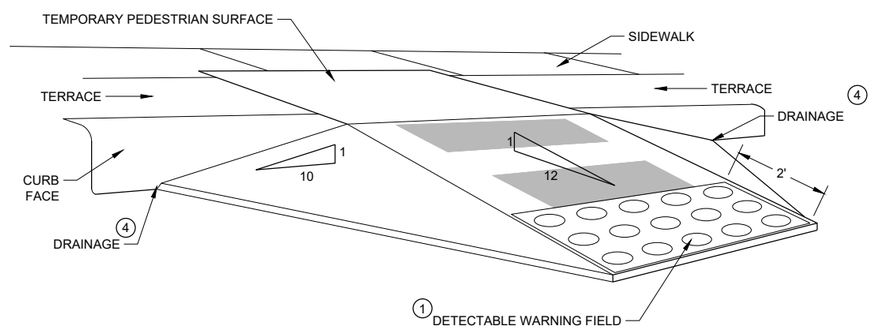
SDD 15D30 - 09b

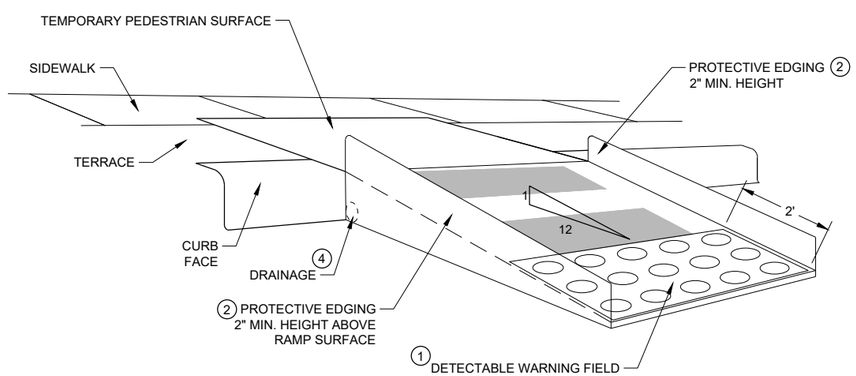
SDD 15D30 - 09b

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT



WITH SIDE APRON 5



WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

1. INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
5. CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

6

SDD 15D30 - 09c

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

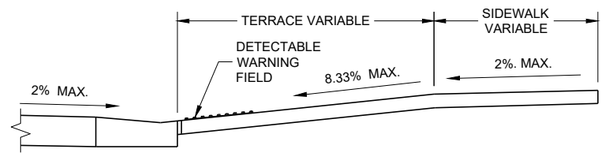
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT

GENERAL NOTES

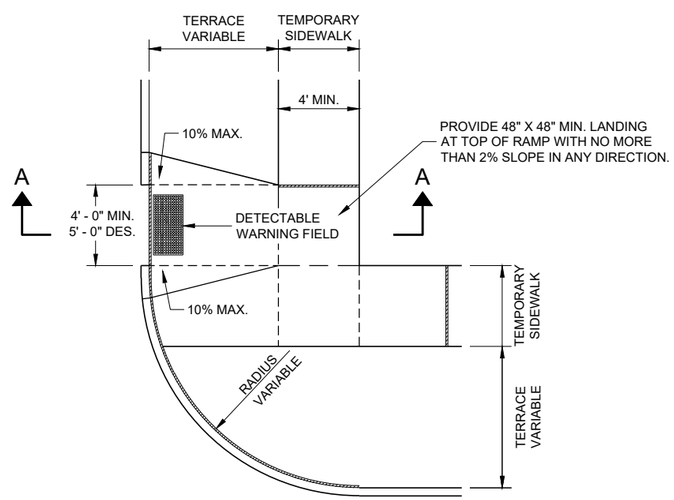
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
3. PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



SECTION A - A



PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

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SDD 15D30-09d

SDD 15D30-09d

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

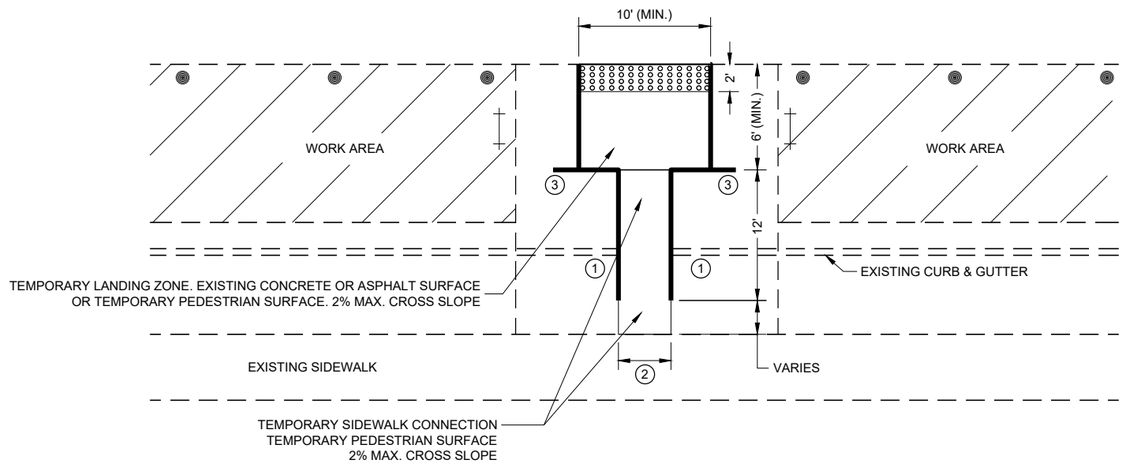
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

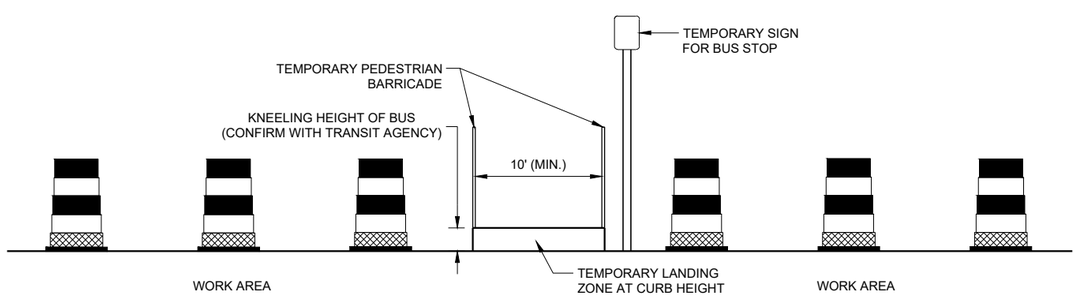
May 2023 — DATE

/S/ Andrew Heidtke — WORK ZONE ENGINEE

FHWA



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

1. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
2. 5' WIDE MIN. WITH TEMPORARY PEDESTRIAN BARRICADE, 10' WIDE MIN. WITHOUT TEMPORARY PEDESTRIAN BARRICADE.
3. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE INTO THIS SPACE.

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY DETECTABLE WARNING FIELD
- WORK AREA

6

6

SDD 15D30 - 09e

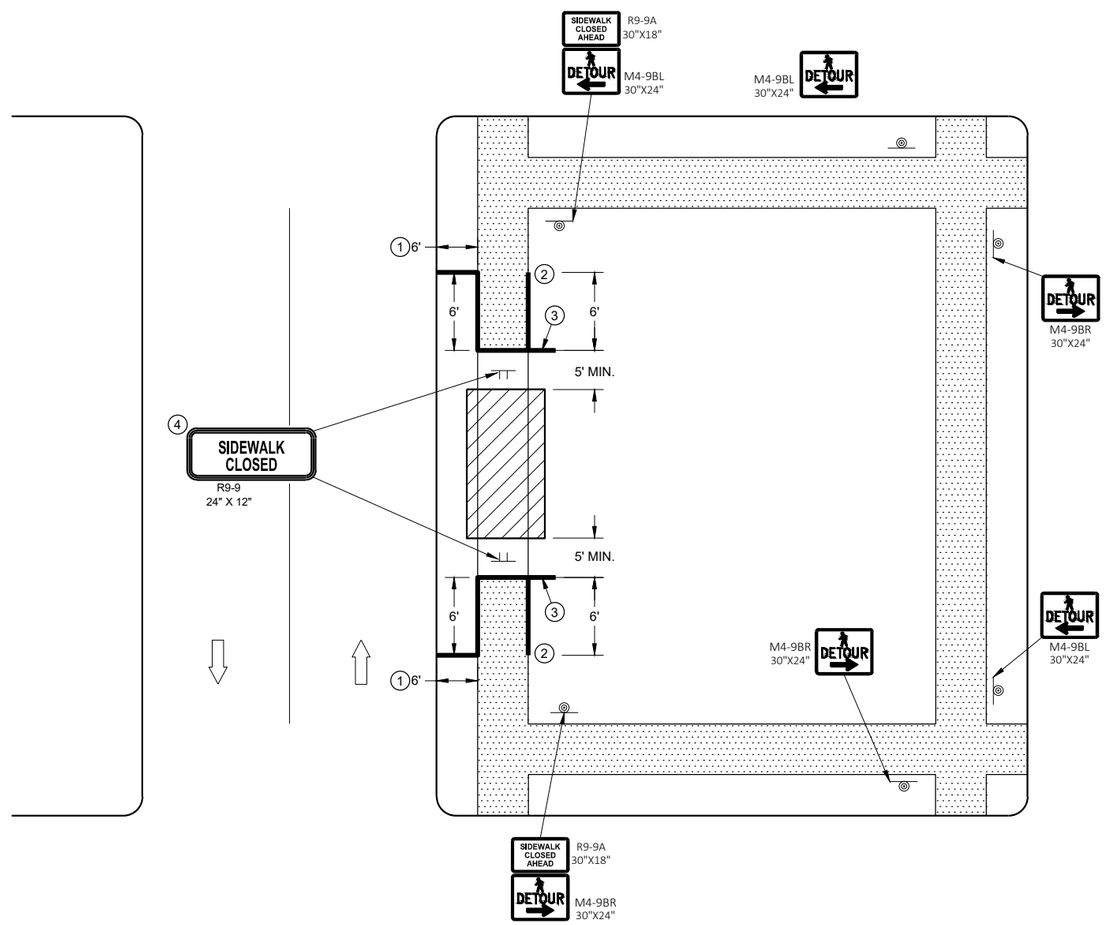
SDD 15D30 - 09e

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC



SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

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

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICTS WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT

6

SDD 15D30 - 09f

LEGEND

- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY PEDESTRIAN SURFACE
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

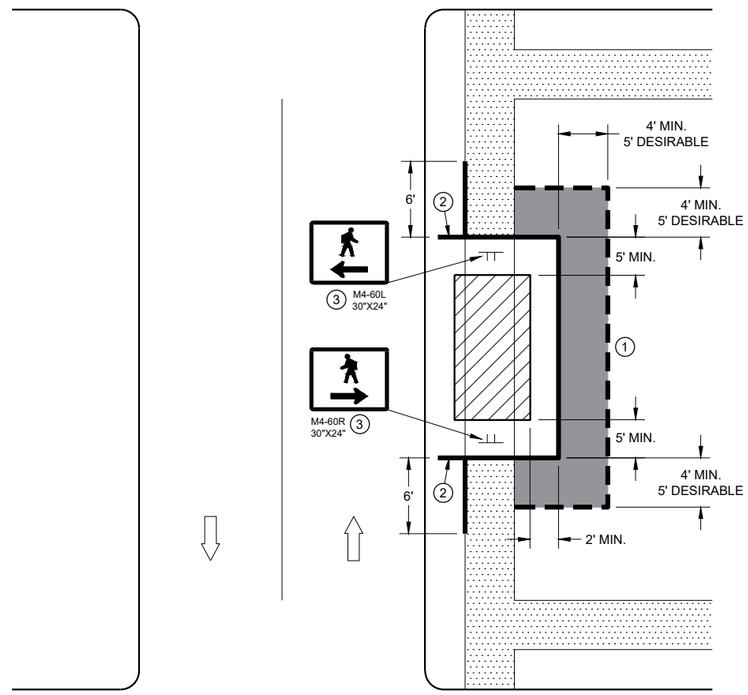
TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

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

1. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
2. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.



SIDEWALK DIVERSION
SINGLE SIDE

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT

6

SDD 15D30 - 09g

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

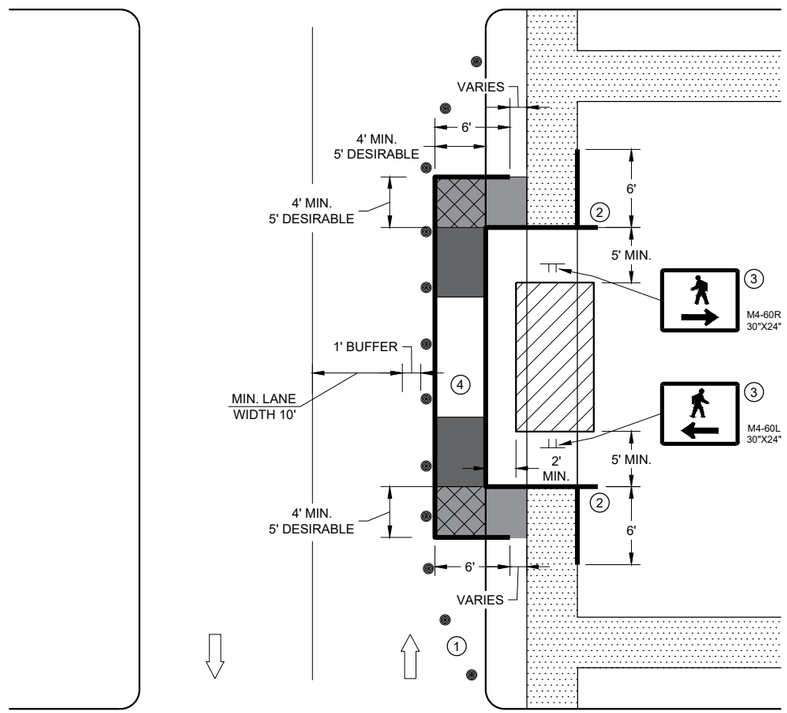
GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND BUFFER SPACE REQUIRED.
2. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.
4. USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE.



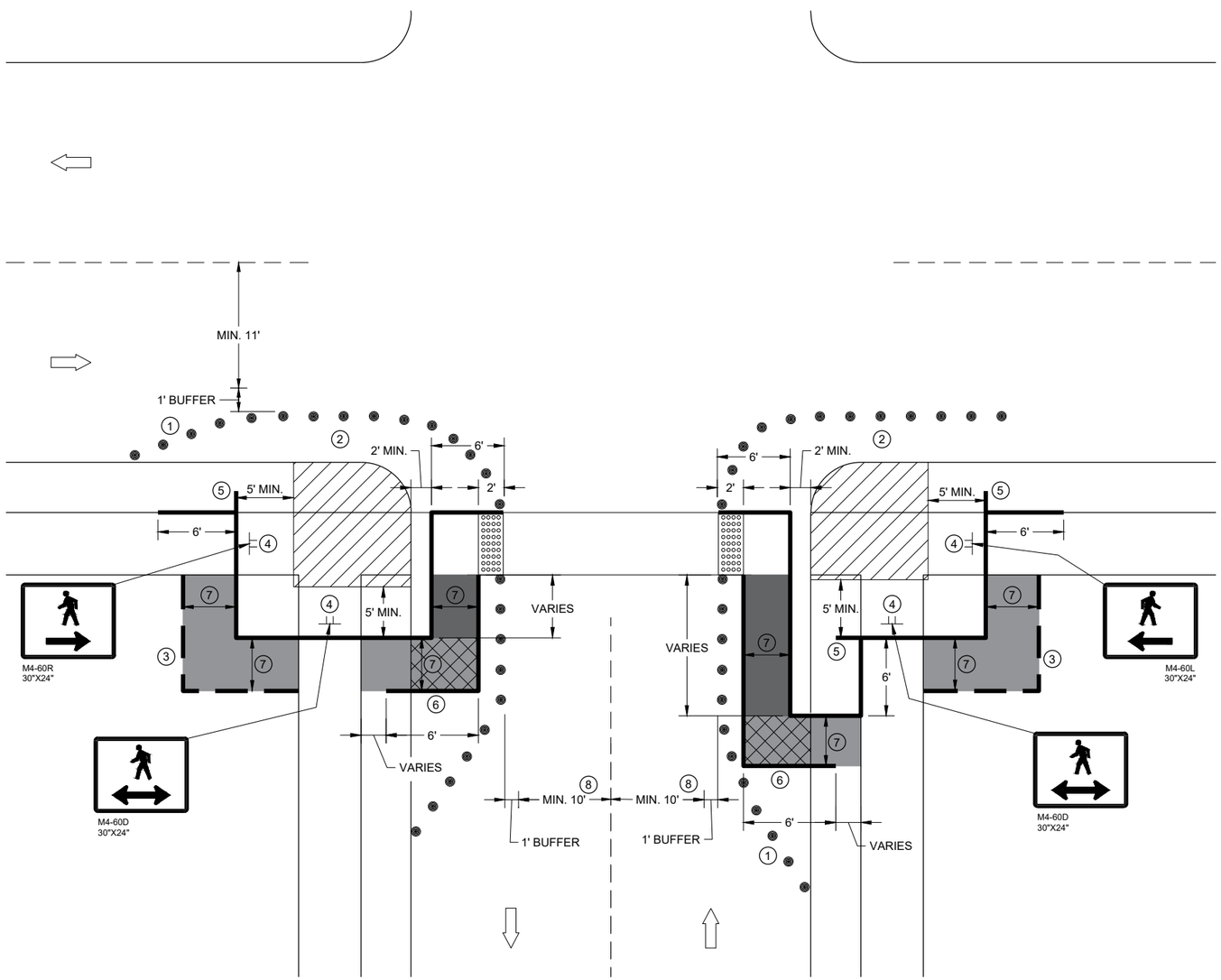
SIDEWALK DIVERSION, SINGLE SIDE

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT

6

SDD 15D30 - 09h



CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
7. 4 FEET MINIMUM, 5 FEET DESIRABLE
8. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

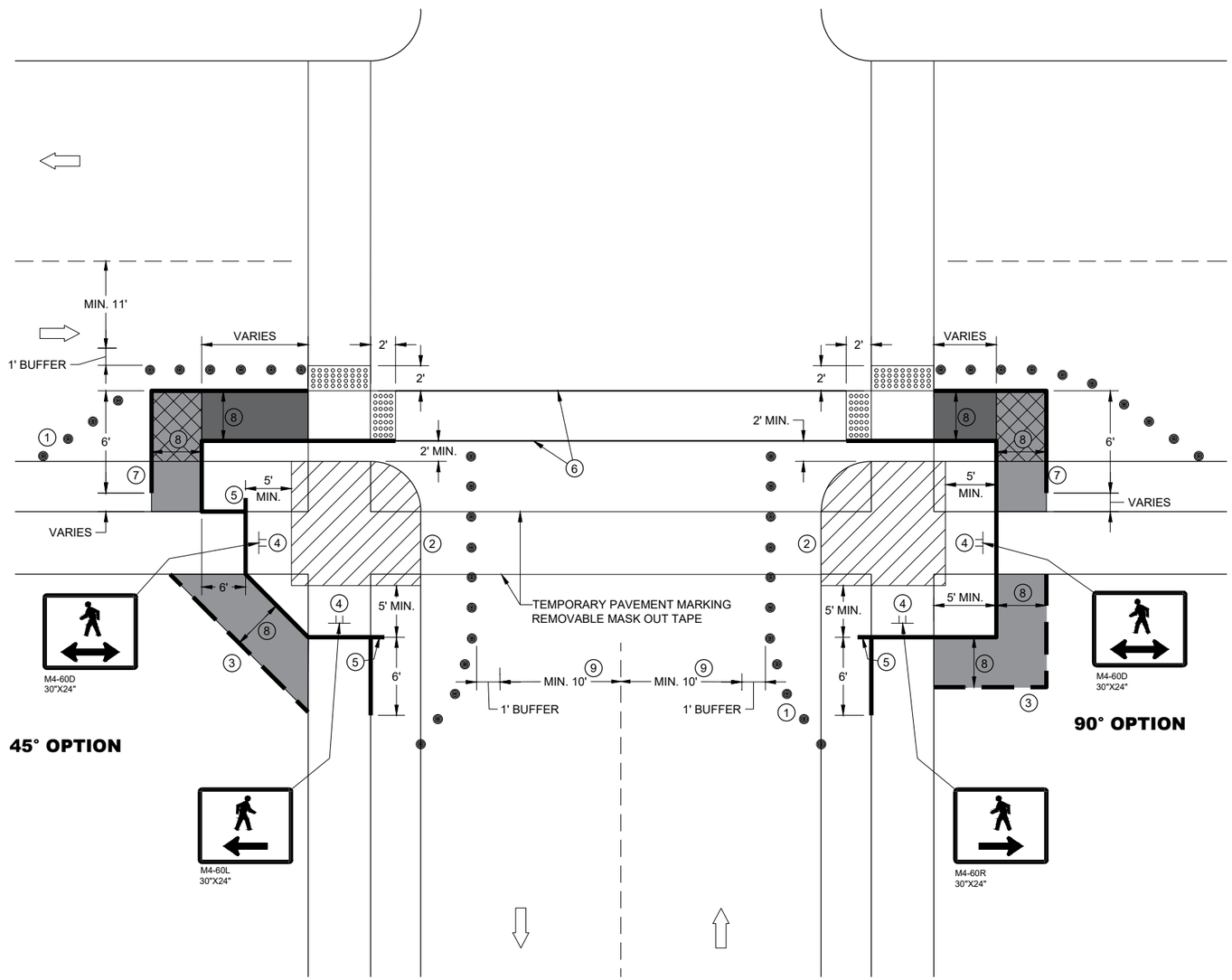
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT

6

SDD 15D30 - 09i



CURB RAMP PEDESTRIAN TRAFFIC CONTROL

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. WHITE 6" TEMPORARY PAVEMENT MARKING
7. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
8. 4 FEET MINIMUM, 5 FEET DESIRABLE
9. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

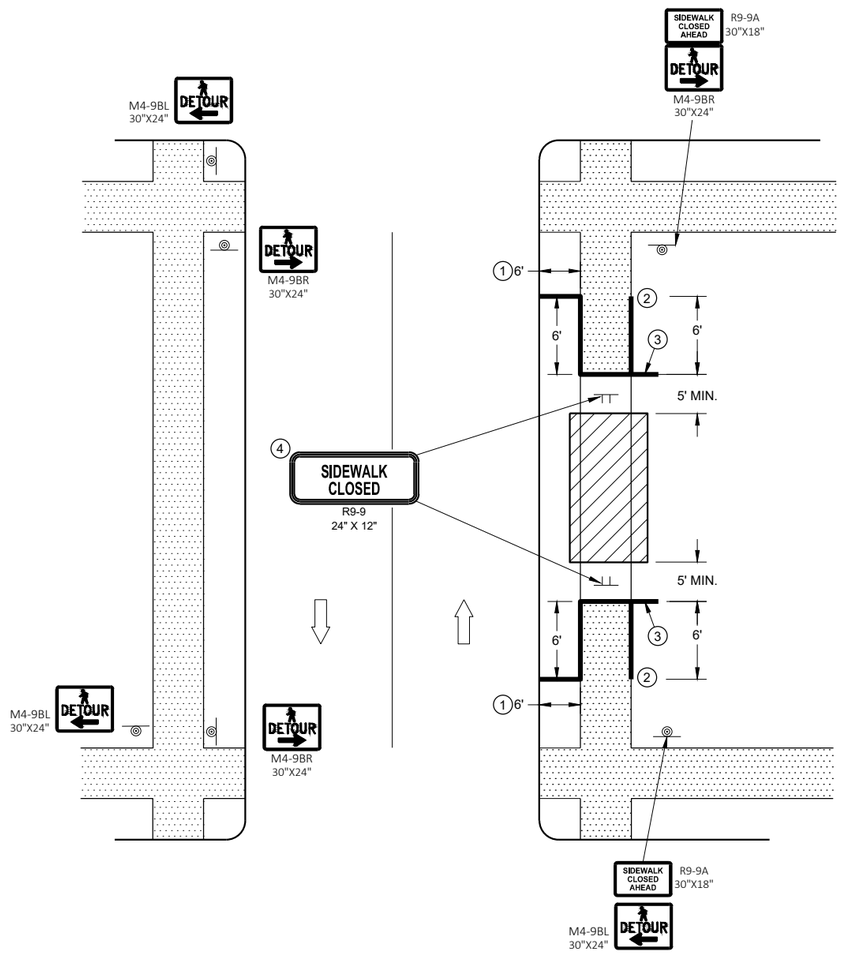
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT

6

SDD 15D30 - 09j

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC



SIDEWALK DETOUR, SIDEWALK ON BOTH SIDES

GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

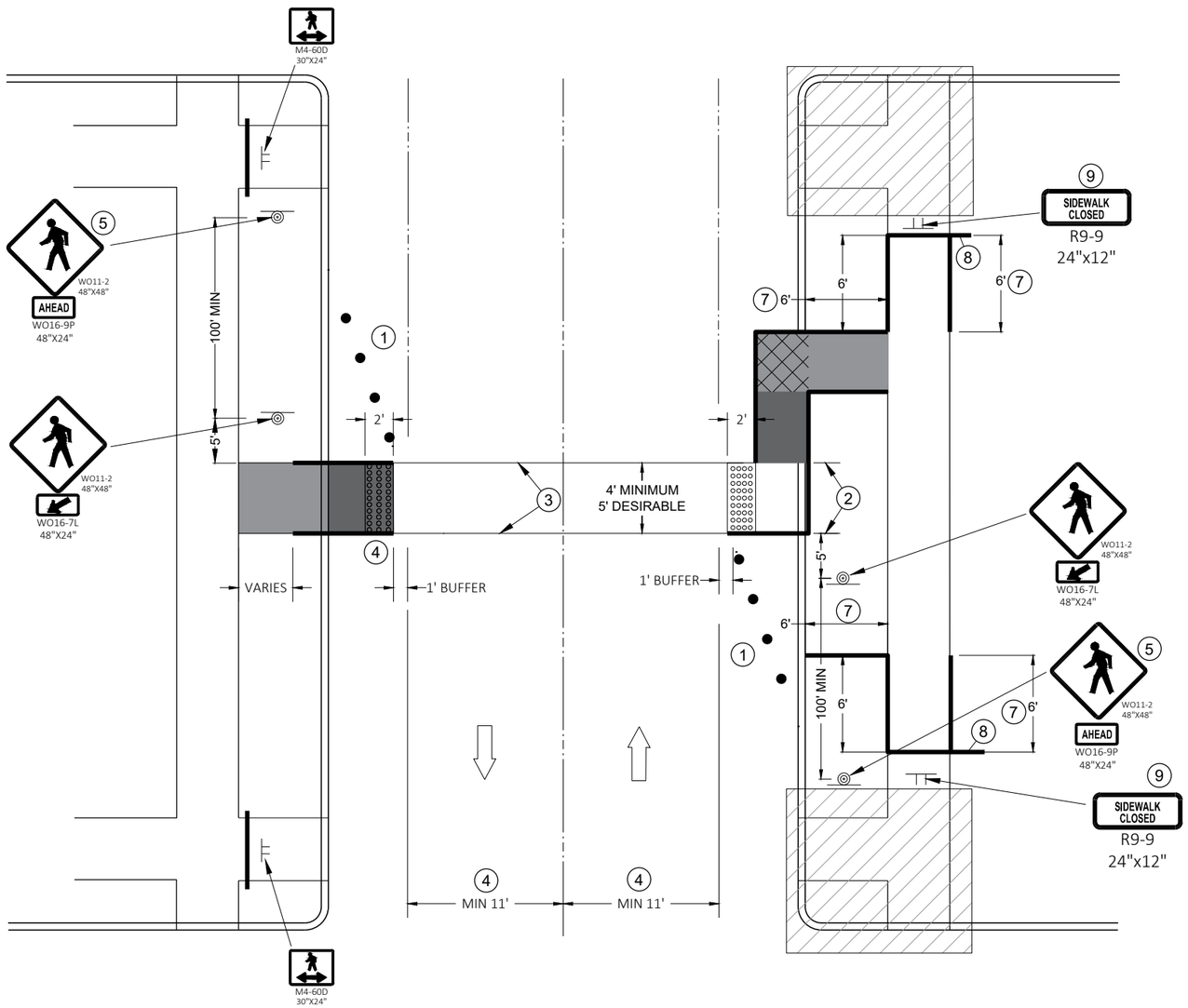
SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICT WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

6

SDD 15D30 - 09k



TEMPORARY PEDESTRIAN CROSSING

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

SEE OTHER PEDESTRIAN ACCOMMODATION DETAILS FOR SIGNING AND DEVICES FOR DIFFERENT PEDESTRIAN FACILITIES CLOSURES.

1. SHOULDER OR LANE CLOSURE ADVANCED WARNING AND PROPER BUFFER SPACE REQUIRED.
2. 4 FEET MINIMUM, 5 FEET DESIRABLE.
3. WHITE 6" TEMPORARY PAVEMENT MARKING.
4. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, PERPENDICULAR CURB RAMPS MAY NEED TO BE UTILIZED.
5. IF MINIMUM 100' SPACING FROM THE MID-BLOCK CROSSING CANNOT BE ATTAINED BEFORE THE INTERSECTION, REMOVE THIS SIGN ASSEMBLY.
6. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
7. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
8. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF THE EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
9. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF THE SIGN.

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON TEMPORARY SUPPORT
- TEMPORARY CURB RAMP
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT

6

SDD 15D30 - 09L

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

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

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

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

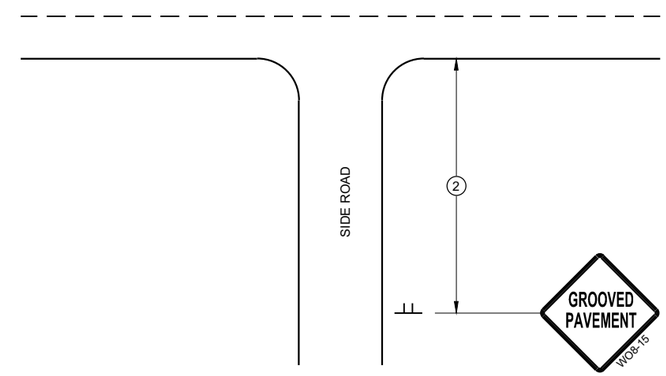
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

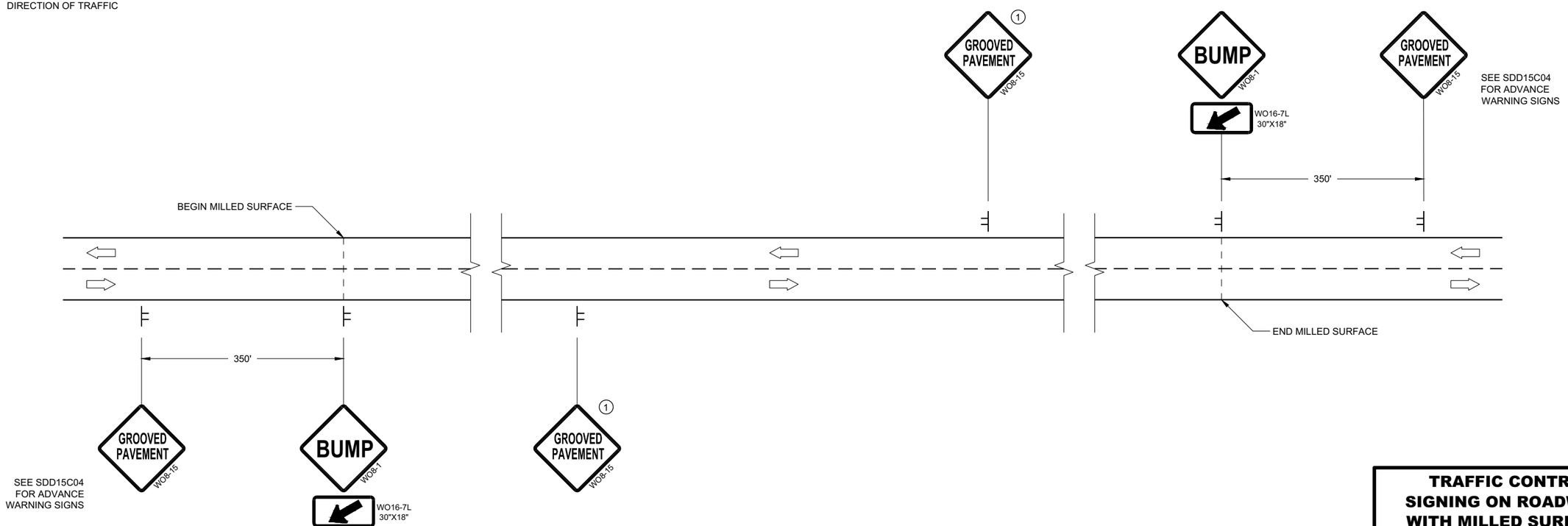
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA

6

SDD 15D44 - 02

6

SDD 15D44 - 02

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

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

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

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

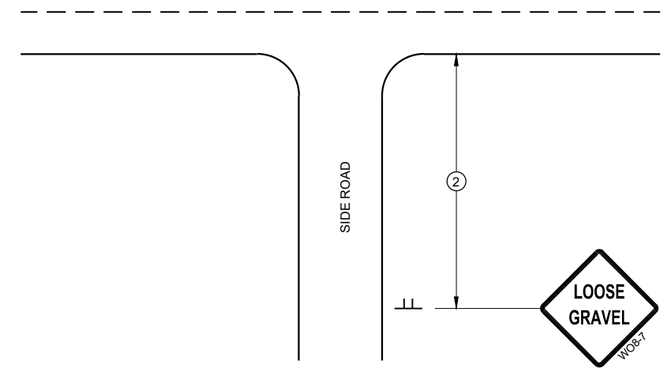
SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

1. PLACE SIGNS 350' IN ADVANCE OF CHIP SEALED OR LOOSE GRAVEL SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
2. PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.
3. ADD WO8-1 OR WO8-2 SIGN WHEN THE CONDITION IS PRESENT.

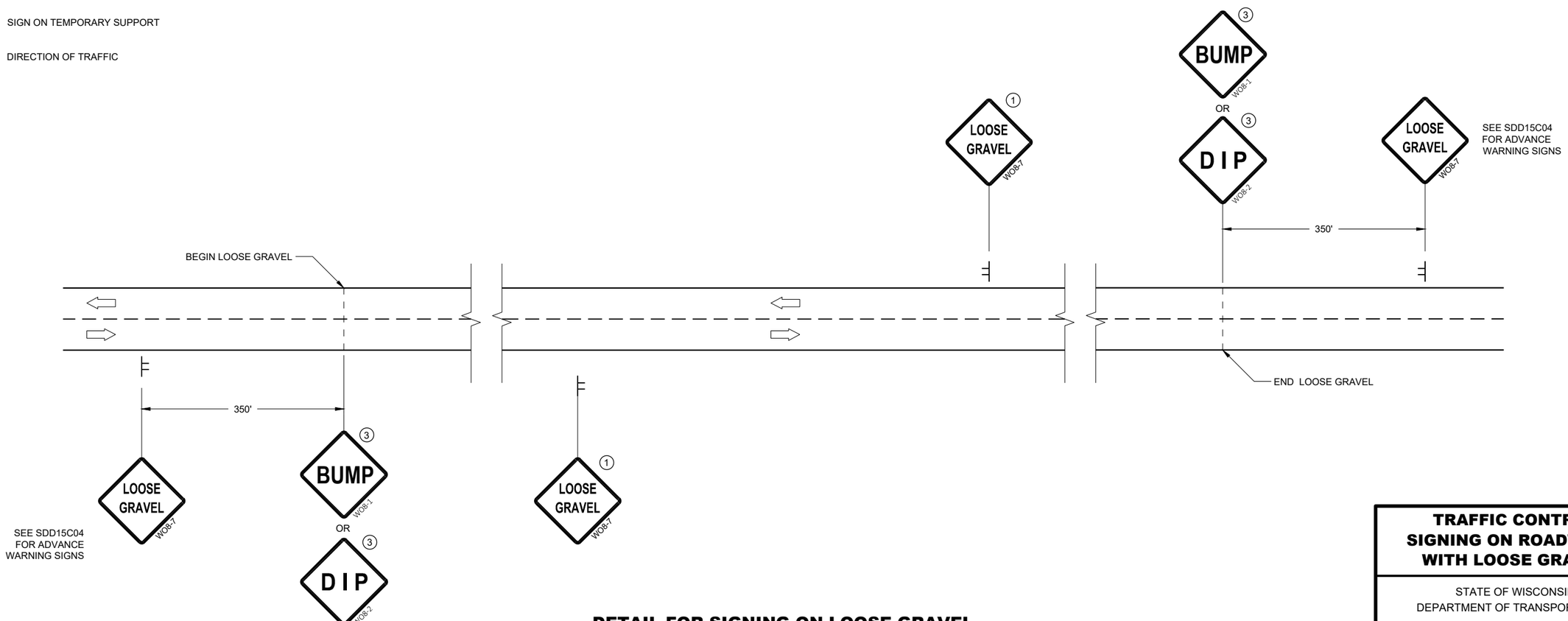
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON LOOSE GRAVEL OR CHIP SEALED SURFACES

TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL

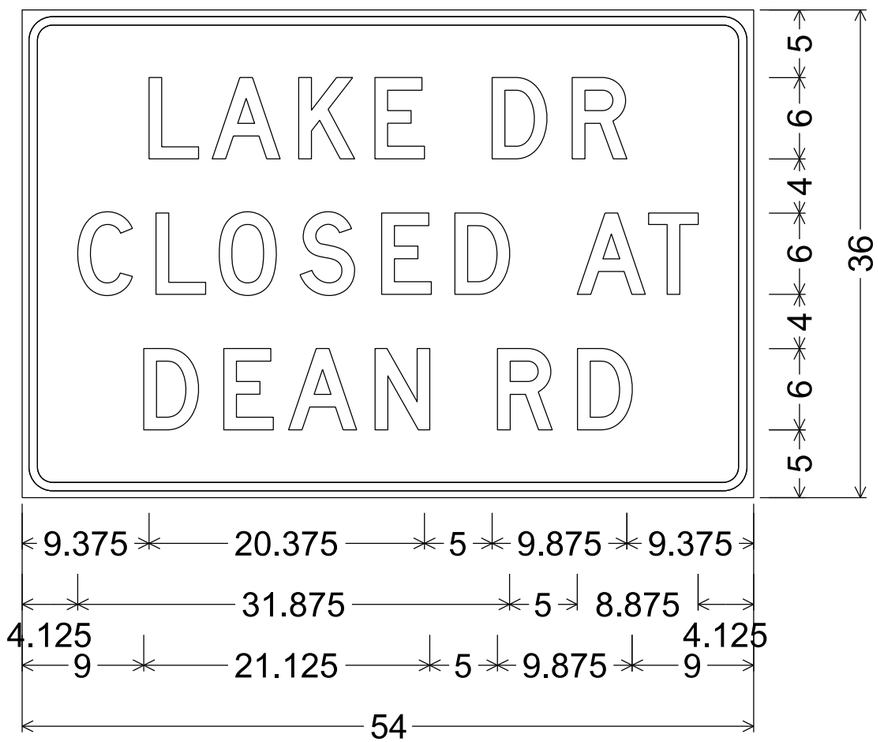
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEE
FHWA

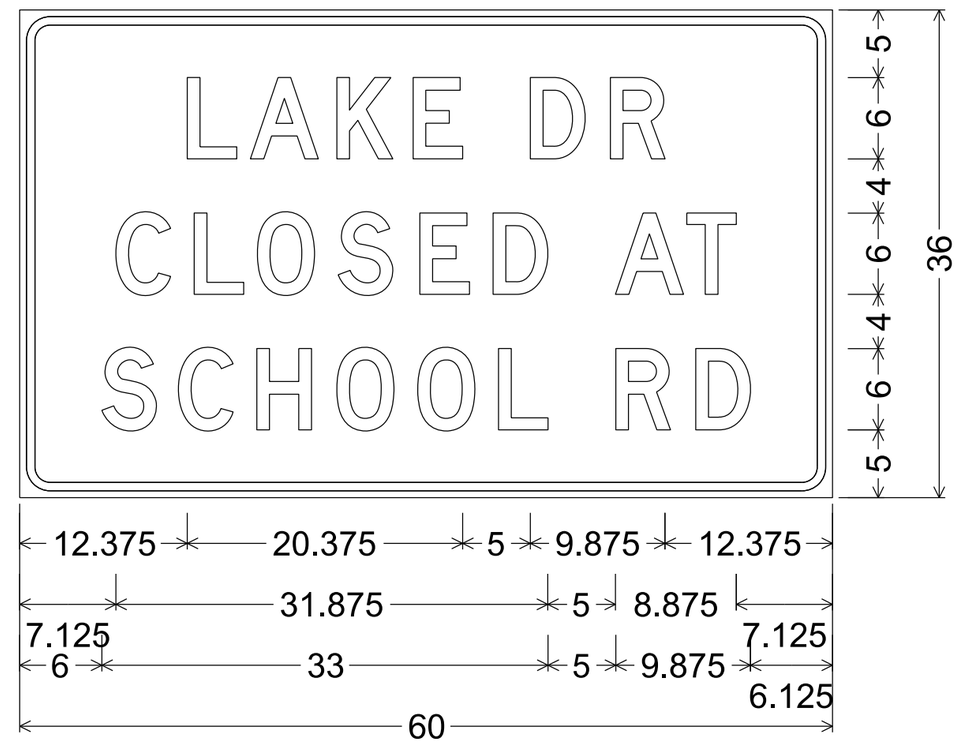
6
SDD 15D45 - 03

NOTES

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



2.250" Radius, 0.625" Border, 0.500" Indent



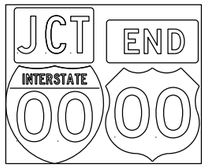
2.250" Radius, 0.625" Border, 0.500" Indent

7

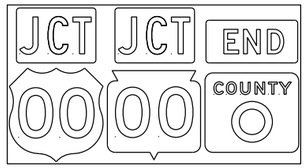
7

TYPICAL ASSEMBLIES

J1-1



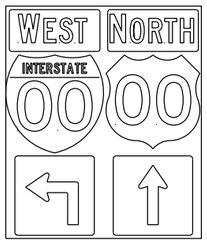
J1-2



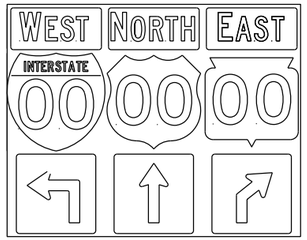
J1-3

JR1-1

J2-1



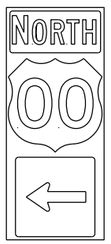
J2-2



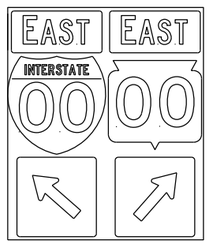
J2-3

JV

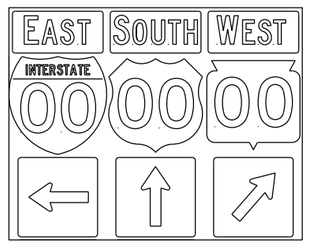
(Typical Vertical J-Assembly
See Note 10 and 11)



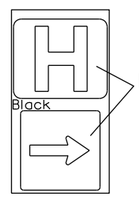
J3-1



J3-2



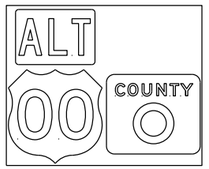
J3-3



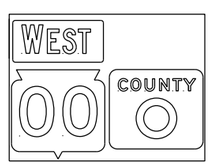
JH-1

Blue Background

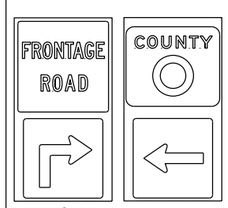
J4-1



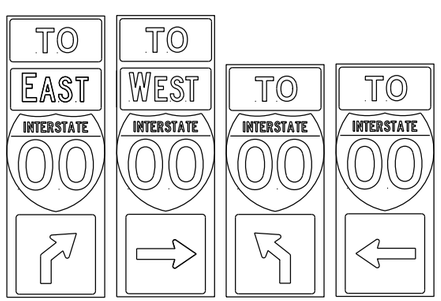
J4-2



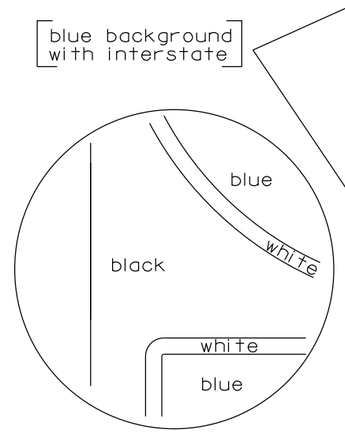
J4-2



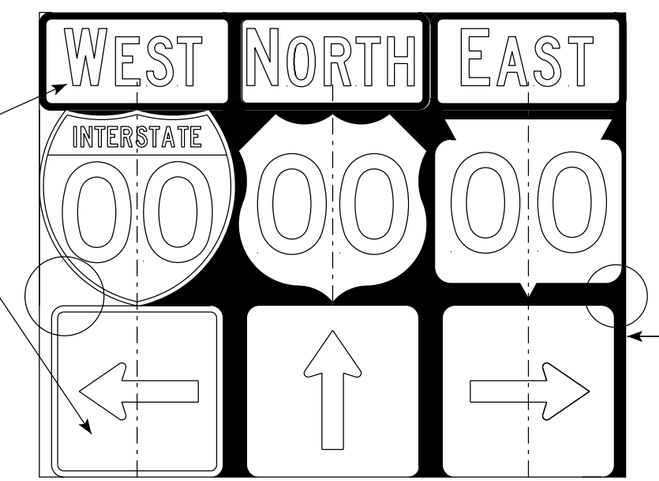
J12-1 J13-1

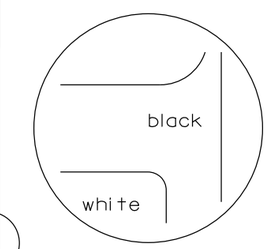


J32-1 J33-1 J22-1 J23-1 JR13-1 JR23-1 JR99-1



blue background
with interstate





black background

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 4
3. Message Series - See Note 4
4. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
5. 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.
6. 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.
7. 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.
8. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (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.
9. All Vertical J Assemblies are given a Sign Code of JV
10. For JV Assemblies that have a mixture of Interstate and Non-Interstate shields, arrows and cardinals shall be white on blue.
11. For JV Assemblies that have a mixture of Non-Interstate and Auto-Tour shields, arrows and cardinals shall be black on white.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

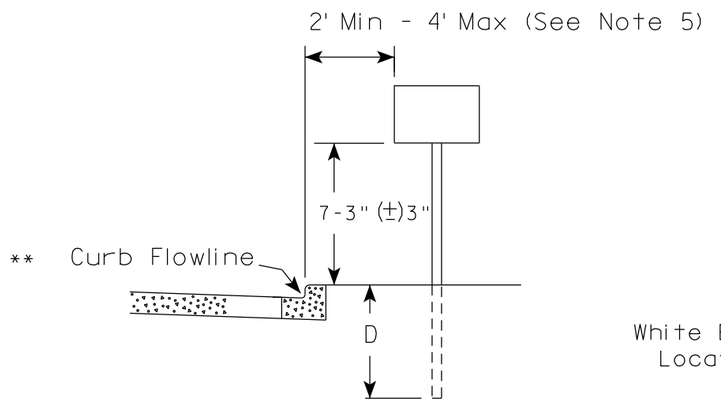
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/23 PLATE NO. A2-1S.10

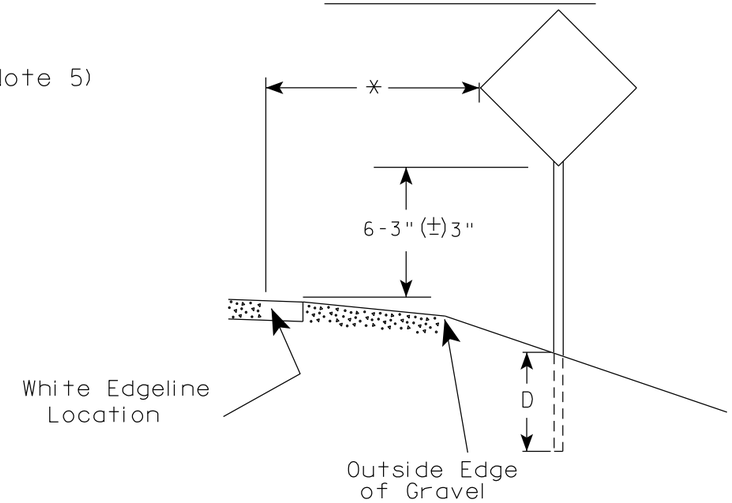
PROJECT NO:

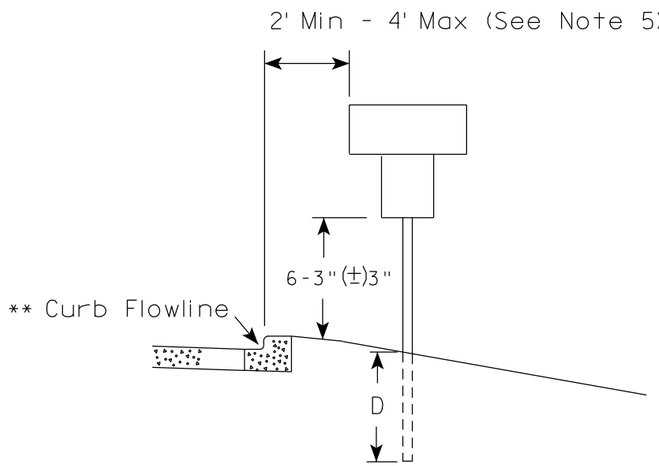
SHEET NO: 382 E

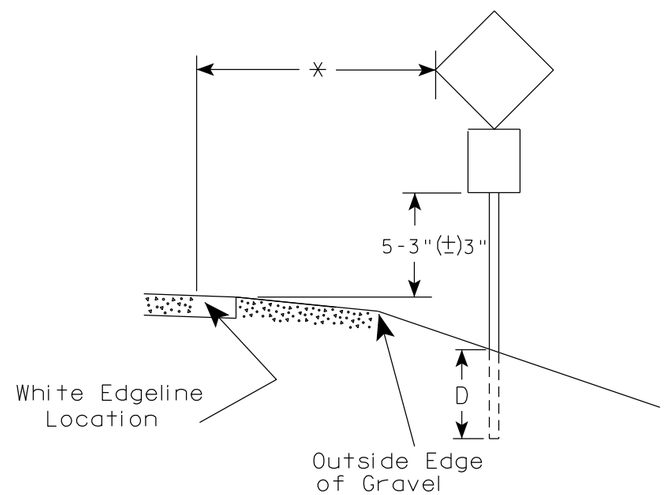
URBAN AREA



RURAL AREA (See Note 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. 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.

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 or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 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" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

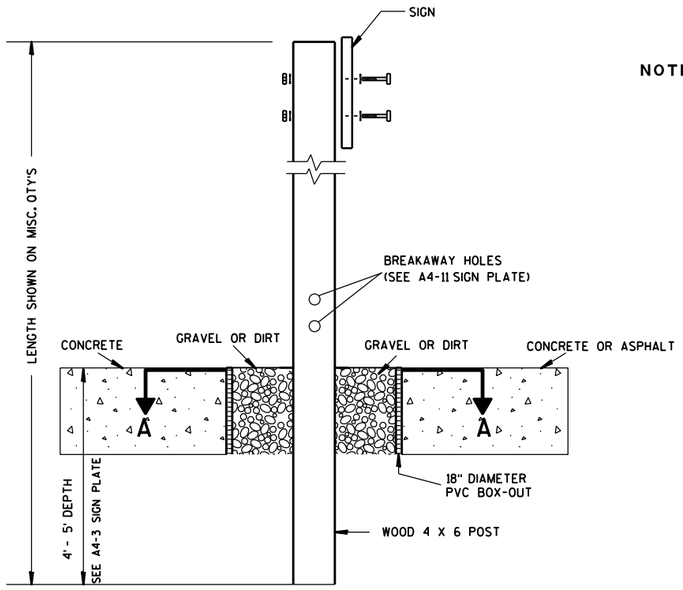
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

7 7

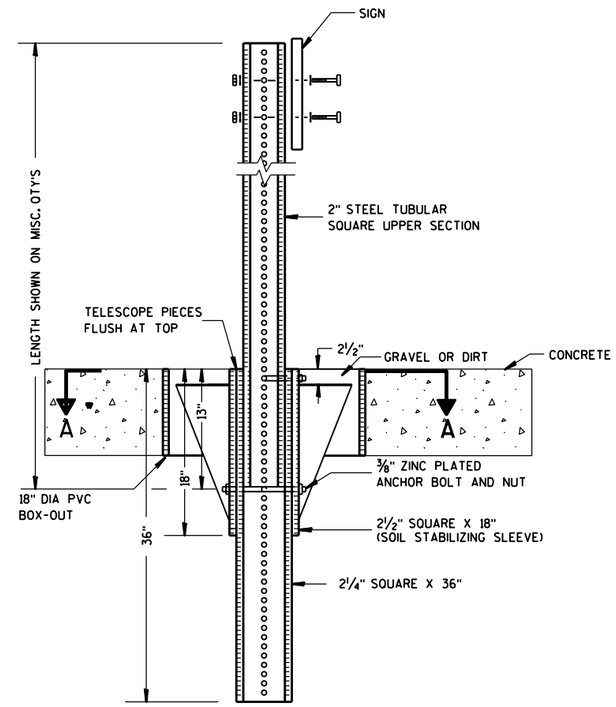
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 383	E



ELEVATION VIEW

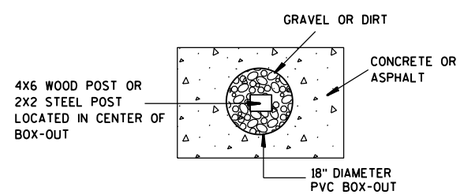
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

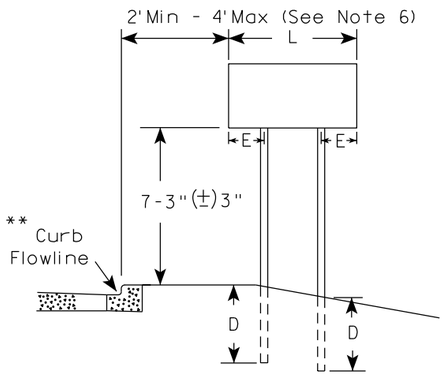
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

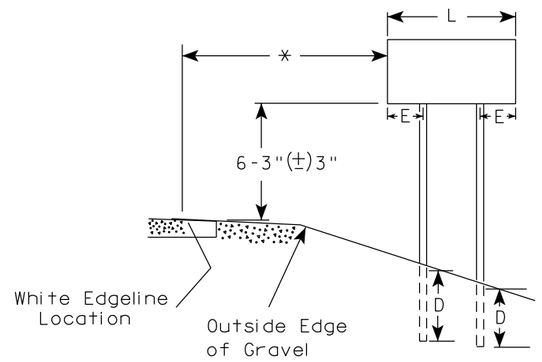
DATE 1/27/14 PLATE NO. A4-3B.1

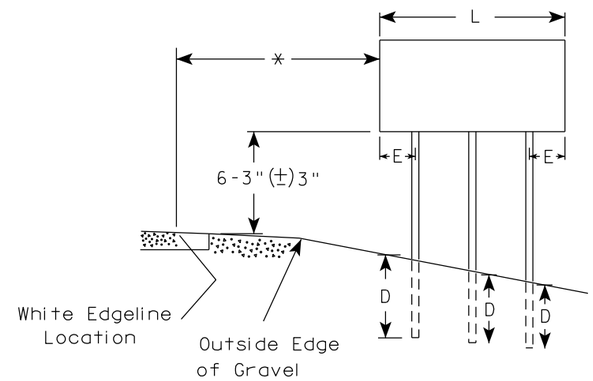
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

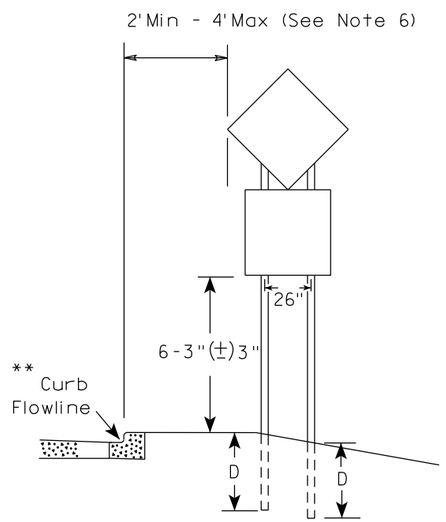
URBAN AREA



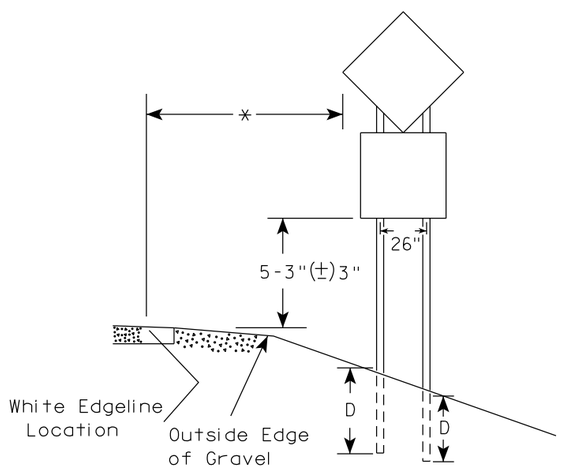
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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" (±) 3" or 6'-3" (±) 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" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 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.

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'

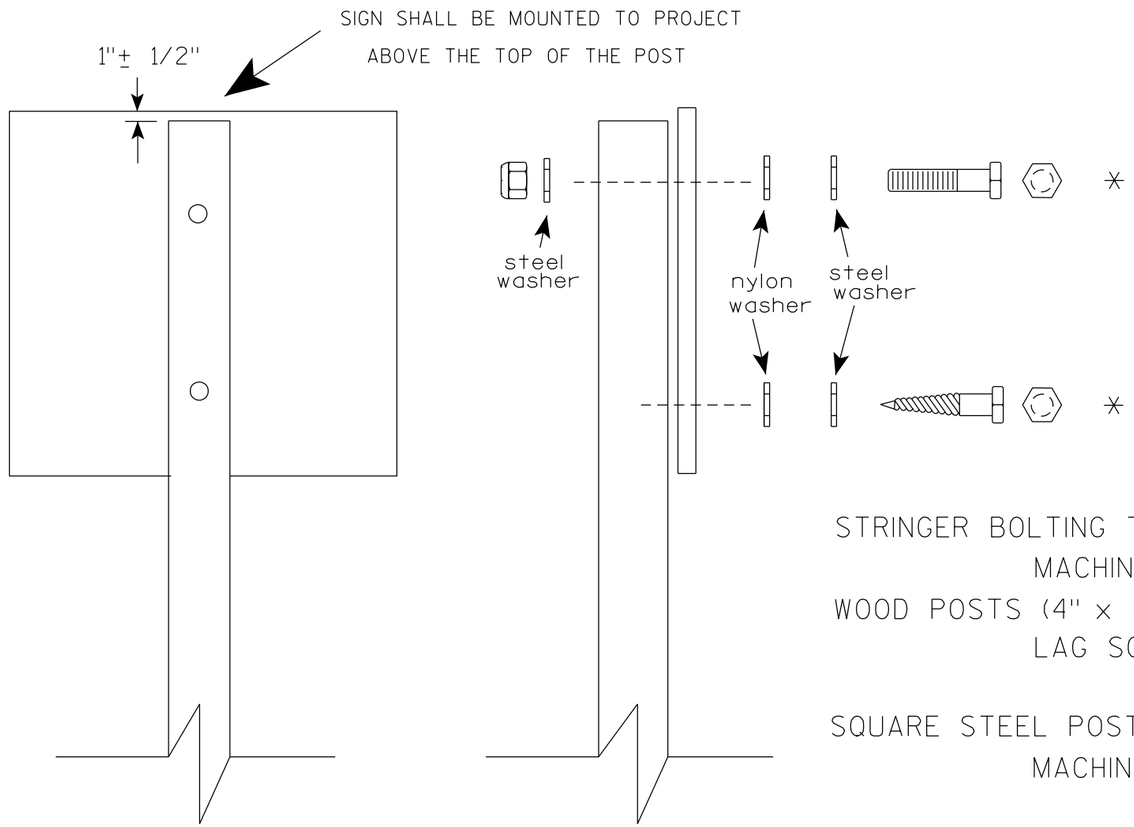
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 385	E



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 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

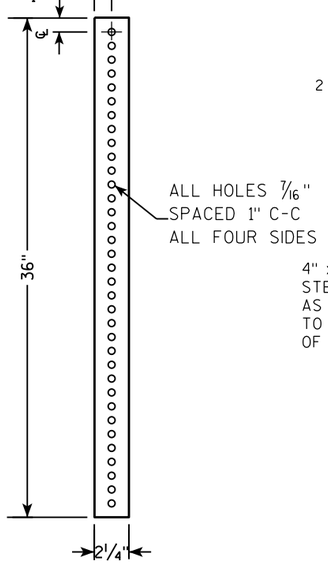
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

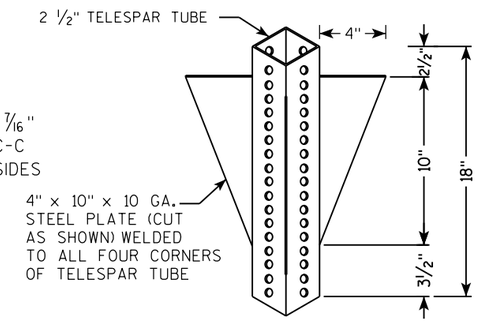
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

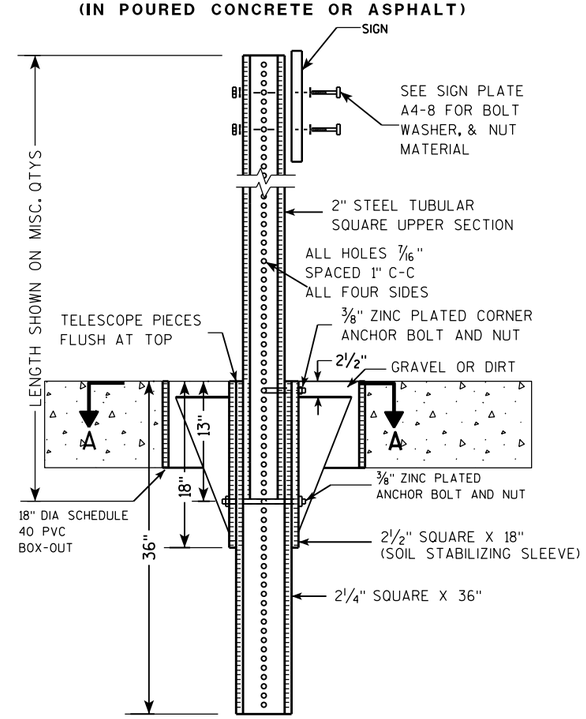
2 1/4" SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



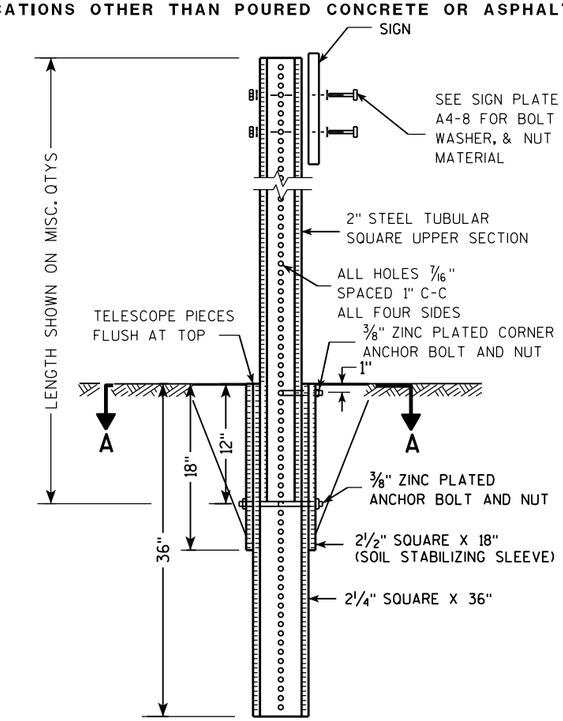
2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

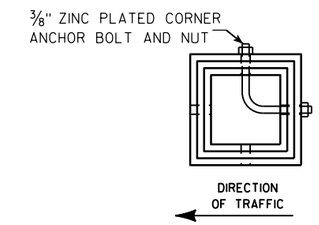


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





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

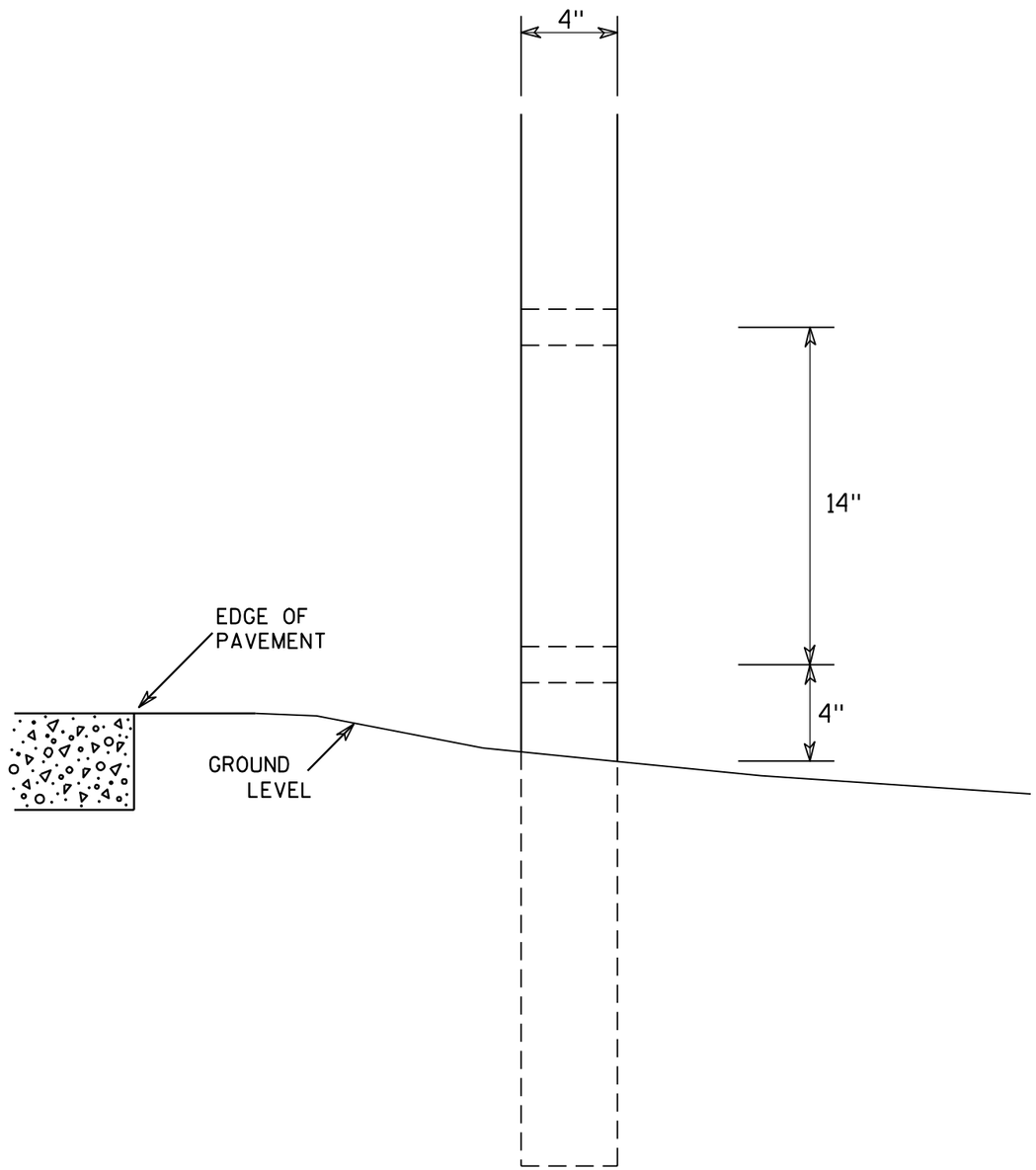
WISCONSIN DEPT OF TRANSPORTATION

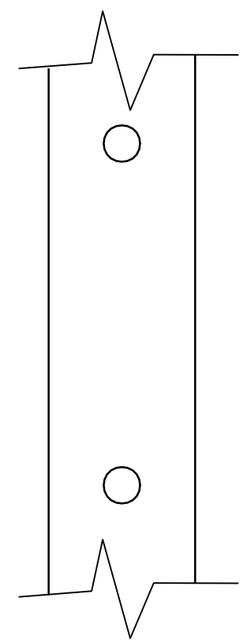
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

7 7

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E





SIDE VIEW

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

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

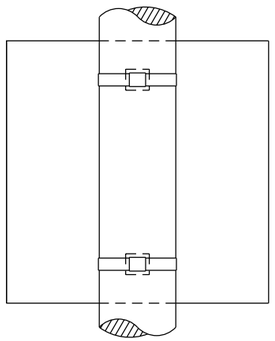
APPROVED Chester J Spang for State Traffic Engineer

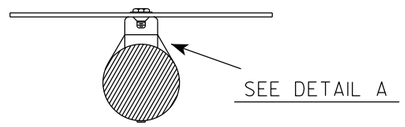
DATE 3/27/97 PLATE NO. A4-11.2

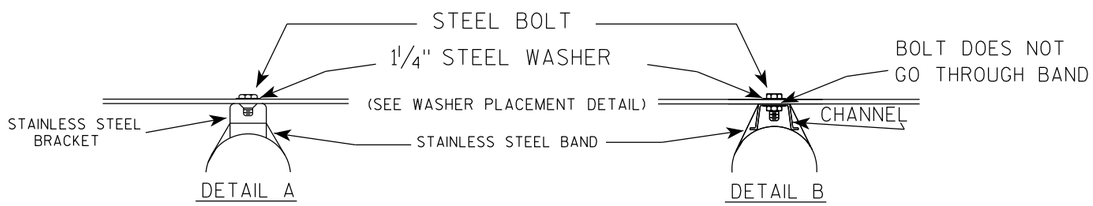
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 388	E

BANDING

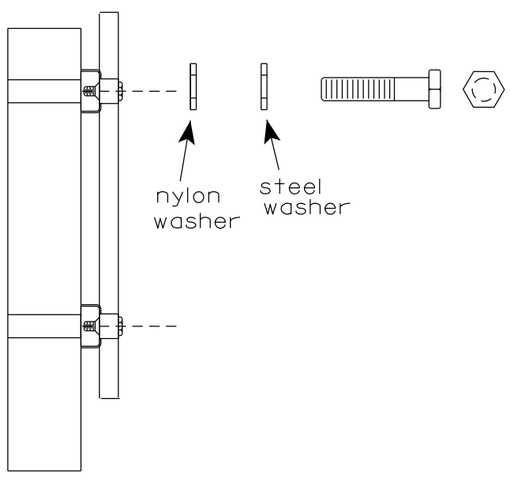
SINGLE SIGN







WASHER PLACEMENT

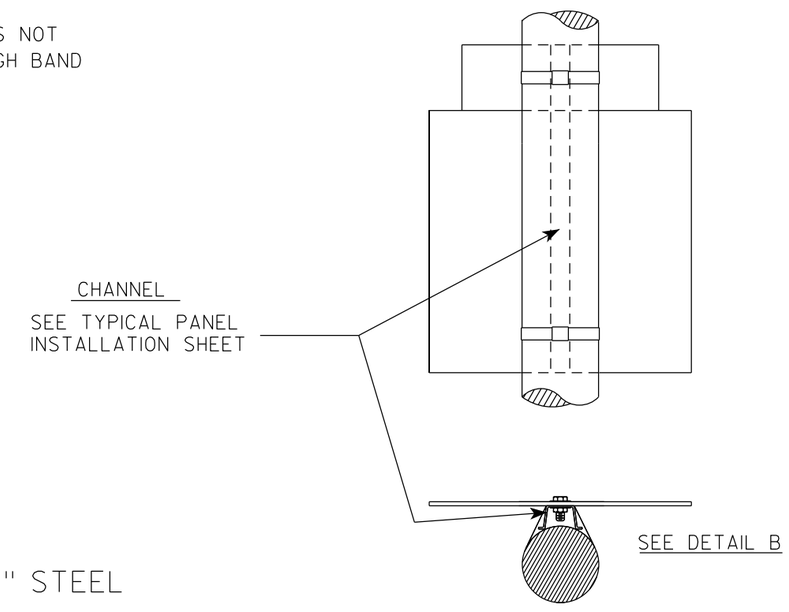


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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 3/4" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



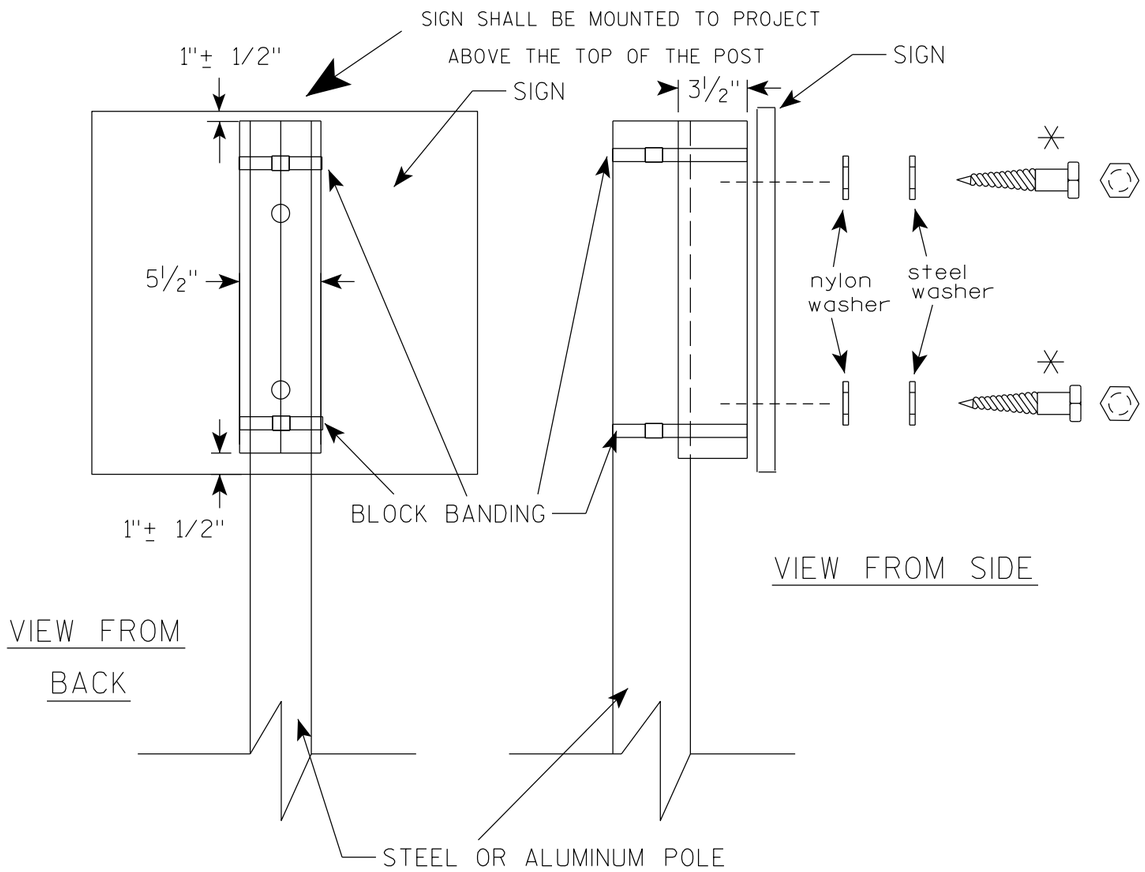
STANDARD SIGN
SIGN BANDING DETAILS

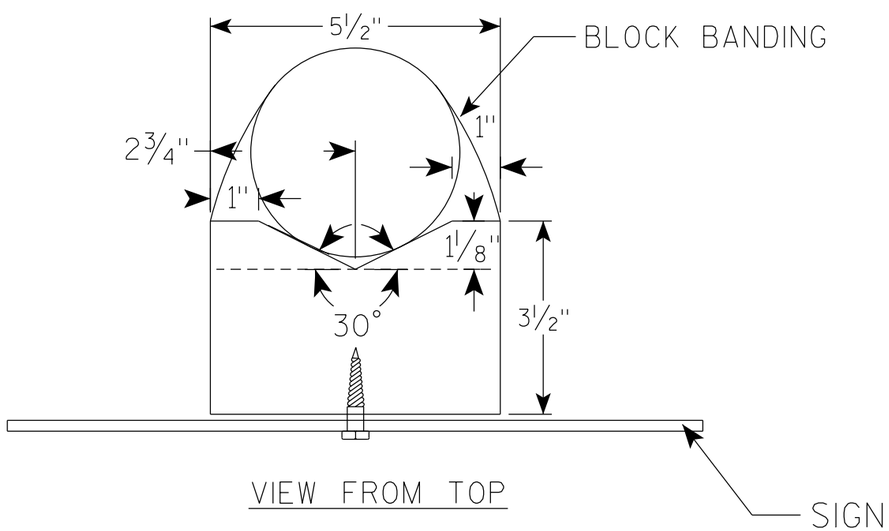
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-9.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 389	E





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 NORNALLY 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
   b. 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"

7

7

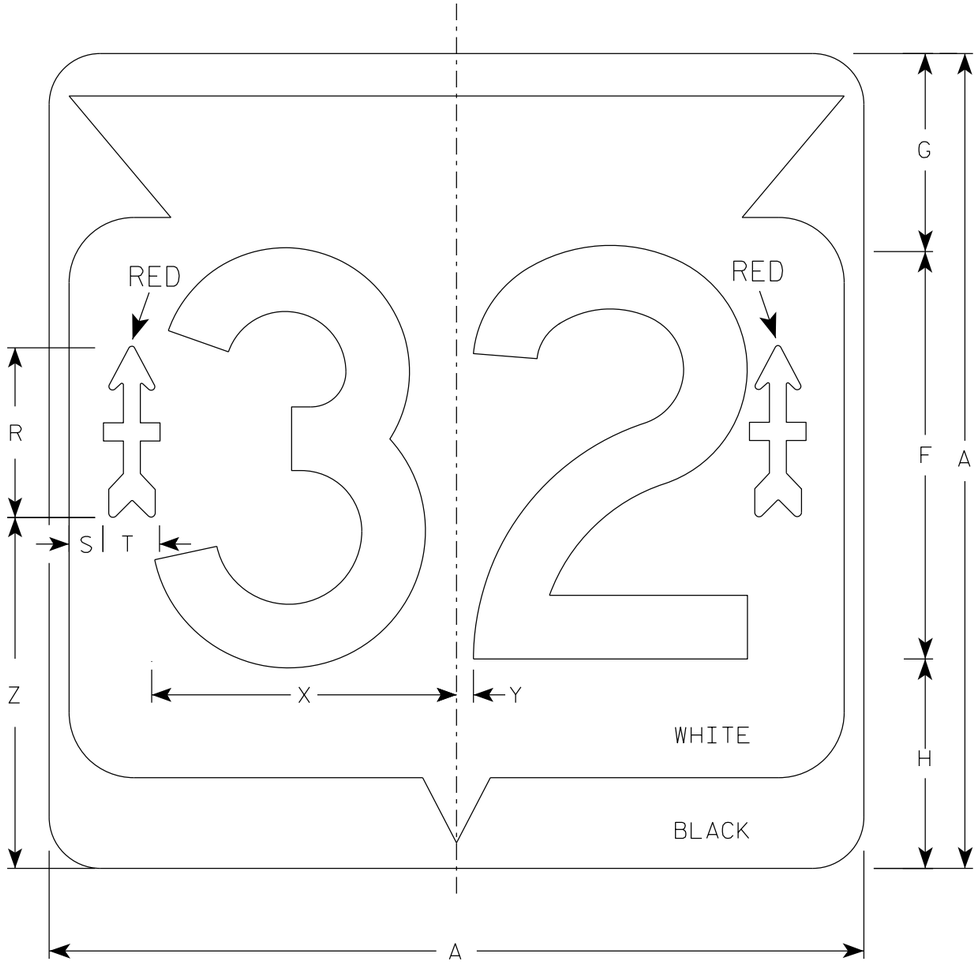
BLOCK BANDING DETAIL
(V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

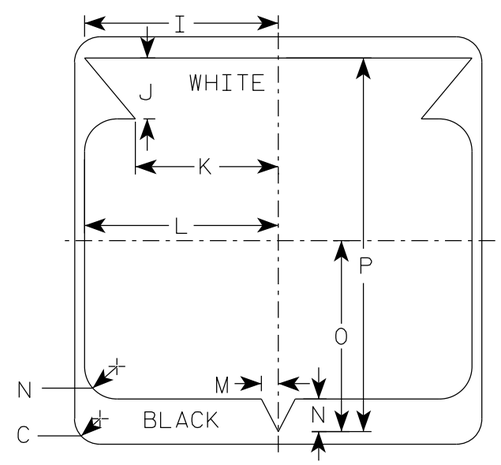
PROJECT NO:				SHEET NO: 390	E



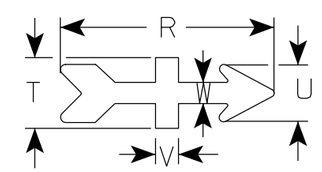
M1-6B

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White & Black
   Message - Black
   Arrow - Red
3. Message Series - D



32nd DIVISION 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																											
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		5 1/8	3/4	1 7/8	1 1/2	5/8	5/8	9	1/2	10 1/2	4.0
2M	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		5 1/8	3/4	1 7/8	1 1/2	5/8	5/8	9	1/2	10 1/2	4.0
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		7 1/2	1 1/2	2 1/2	2	7/8	3/4	13 1/2	3/4	15 1/2	9.0
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		7 1/2	1 1/2	2 1/2	2	7/8	3/4	13 1/2	3/4	15 1/2	9.0
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		7 1/2	1 1/2	2 1/2	2	7/8	3/4	13 1/2	3/4	15 1/2	9.0

STATE ROUTE MARKER "32"
M1-6B FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

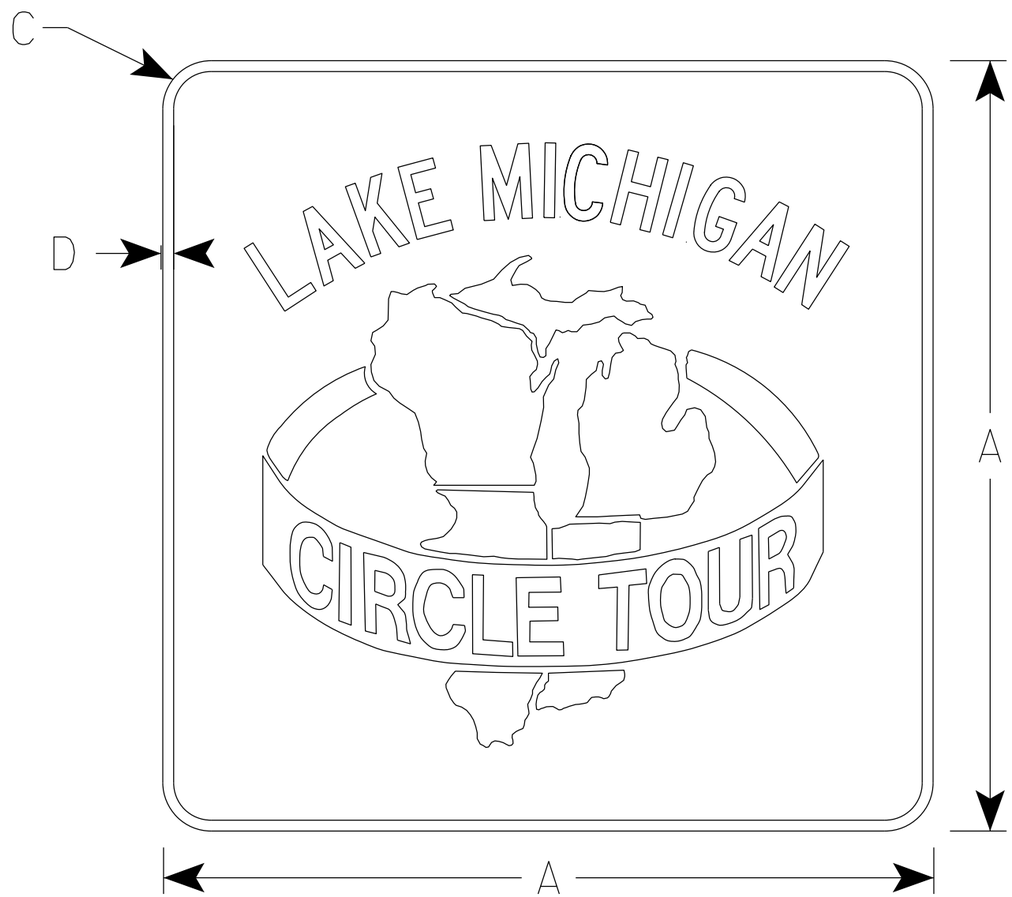
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-6B.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 391 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White - Graphics - White
   Circle Tour Message is Green
3. Message Series - Special



M1-93

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			1 1/2	1/2																						4.0
2M	24			1 1/2	1/2																						4.0
3	36			2 1/4	3/4																						9.0
4	36			2 1/4	3/4																						9.0
5	36			2 1/4	3/4																						9.0

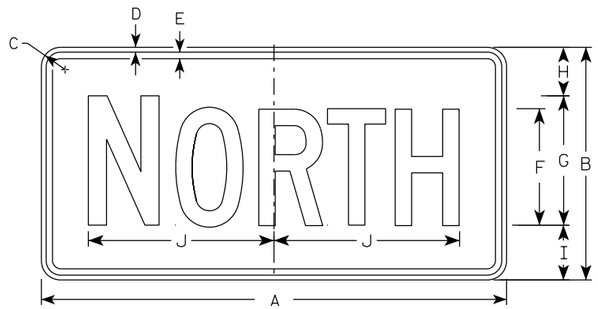
STANDARD SIGN
M1-93

WISCONSIN DEPT OF TRANSPORTATION

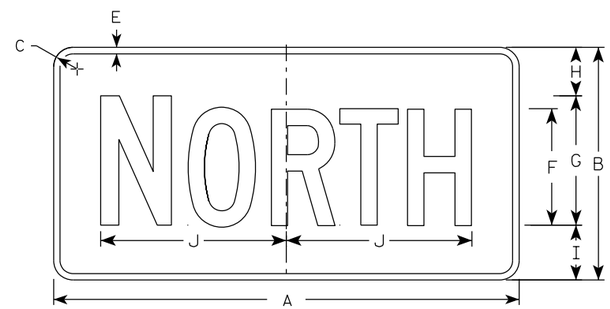
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/8/2023 PLATE NO. M1-93.4

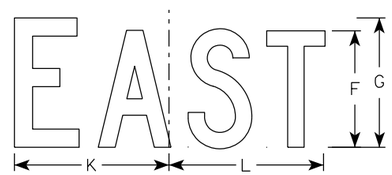
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 392	E



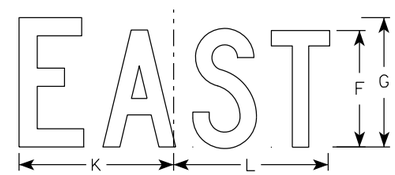
M3-1
MM3-1
MP3-1



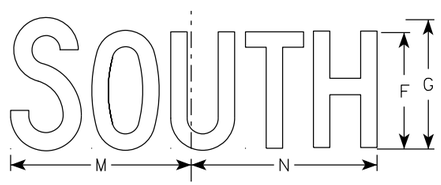
MB3-1
MK3-1
MN3-1



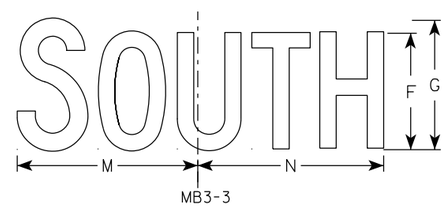
M3-2
MM3-2
MP3-2



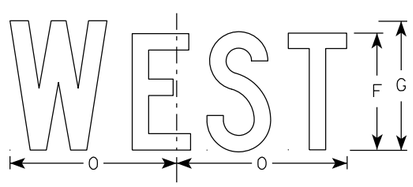
MB3-2
MK3-2
MN3-2



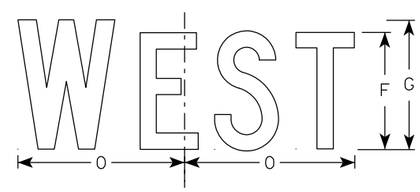
M3-3
MM3-3
MP3-3



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 Reflective
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																											
2S	24	12	1 1/2	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												2.00
2M	24	12	1 1/2	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												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

STANDARD SIGNS
M3-1 THRU M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

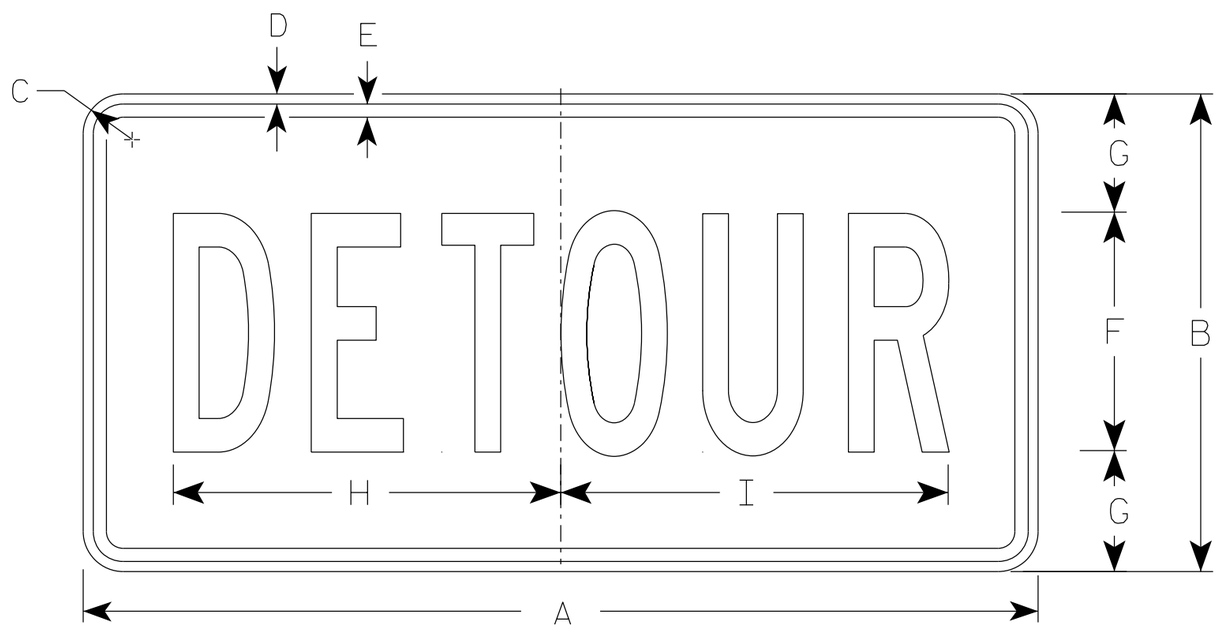
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/8/2023 PLATE NO. M3-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 393 | E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
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.



M4-8

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 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

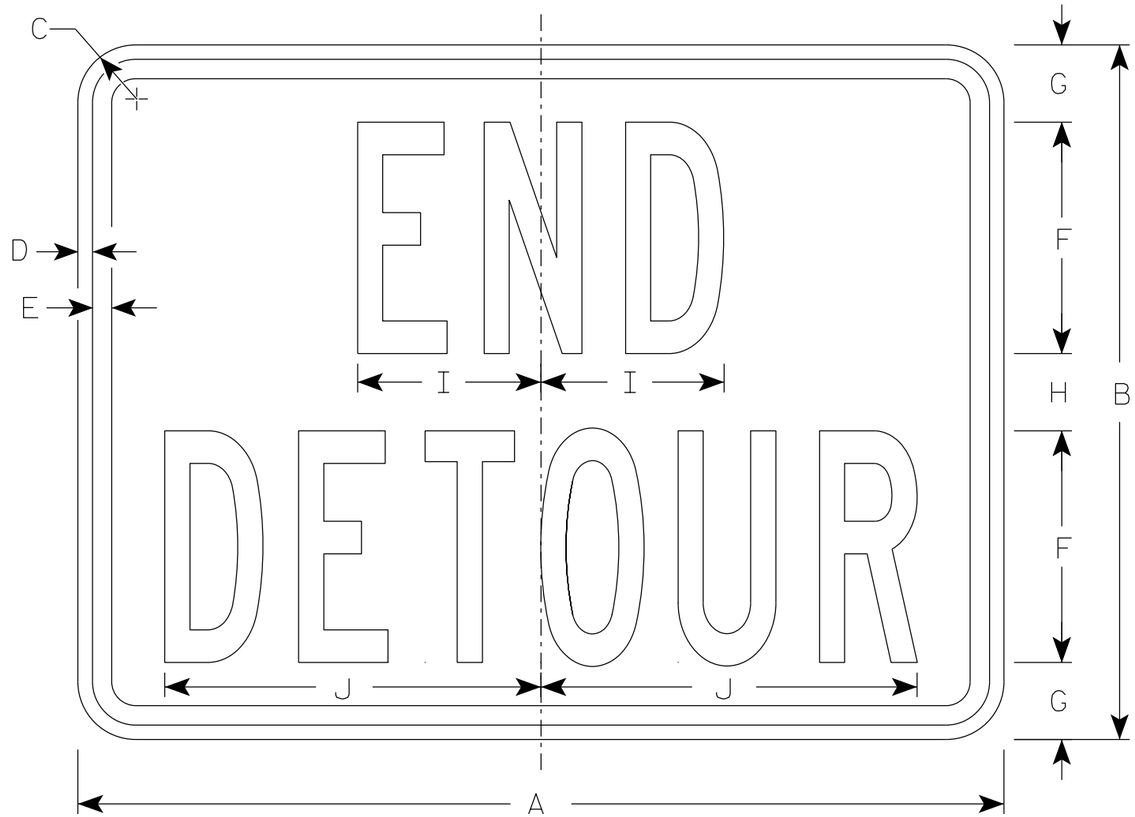
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 394	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
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																											
2	24	18	1 1/2	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
2M	24	18	1 1/2	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
5	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0

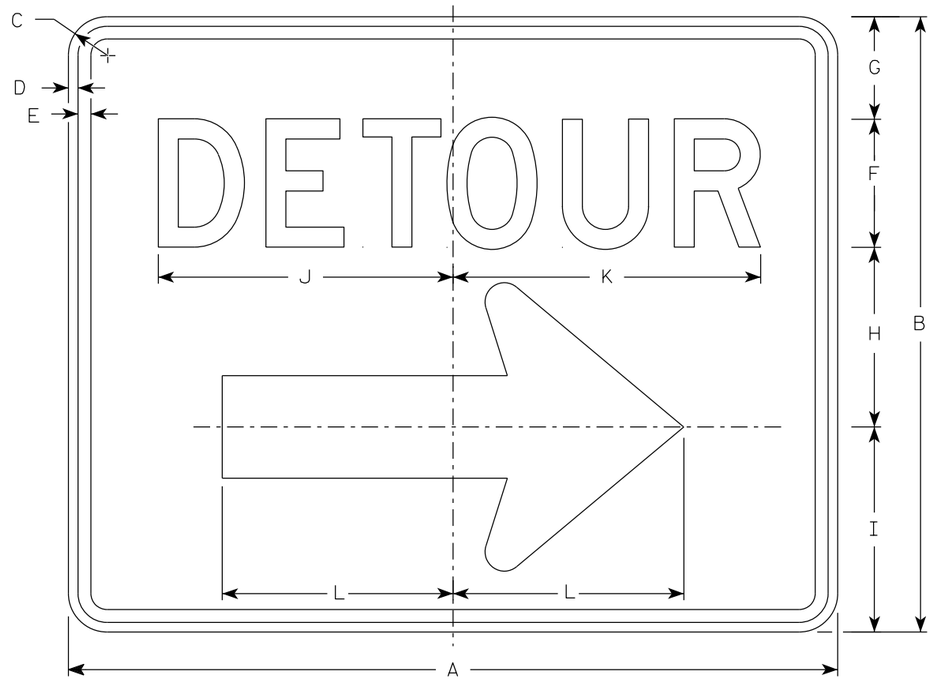
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

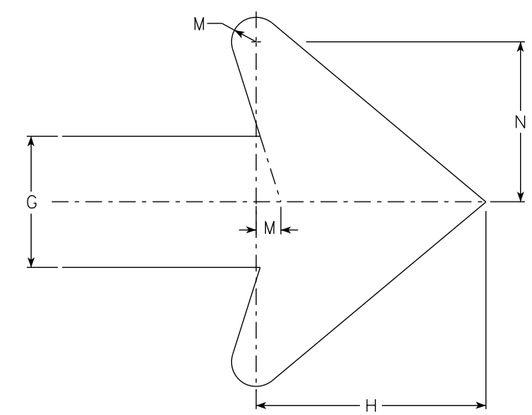
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 395 | E



M4-9R

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.
4. M4-9L is the same as M4-9R except the arrow is reversed.



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																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

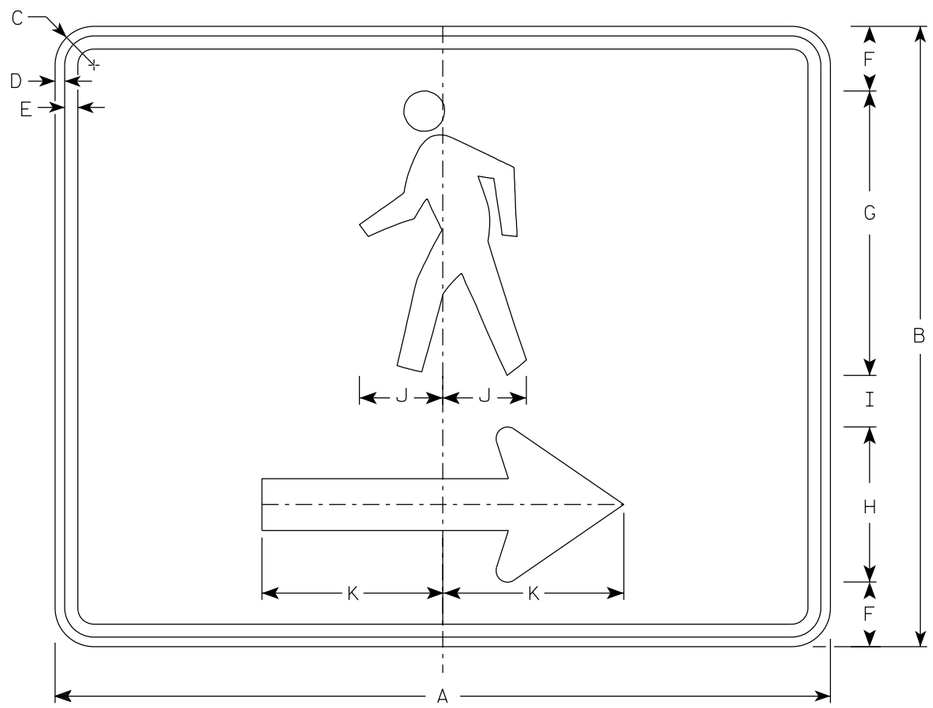
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-9R.6

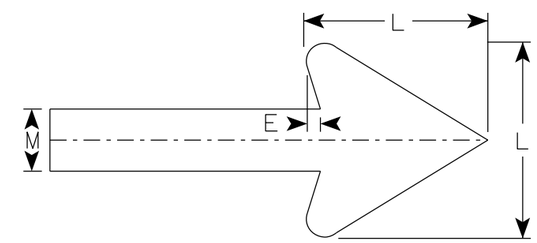
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

NOTES

1. Sign is Type II- Type F Reflective
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. M4-60L is the same as M4-60R except the arrow is reversed.



M4-60R



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	30	24	1 ½	⅜	½	2 ½	11	6	2	3 ¼	7	6	2														5.00
2M	30	24	1 ½	⅜	½	2 ½	11	6	2	3 ¼	7	6	2														5.00
3																											
4																											
5																											

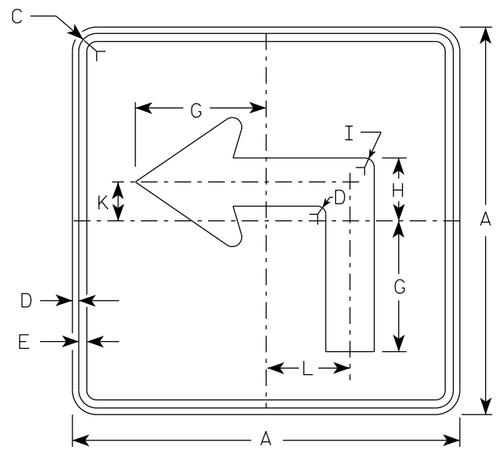
STANDARD SIGN
M4-60 L&R

WISCONSIN DEPT OF TRANSPORTATION

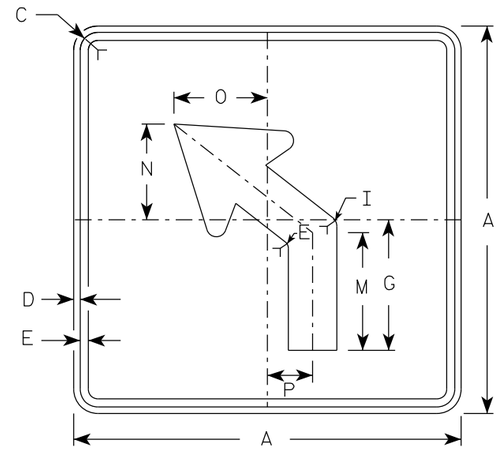
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/14/2023 PLATE NO. M4-60.2

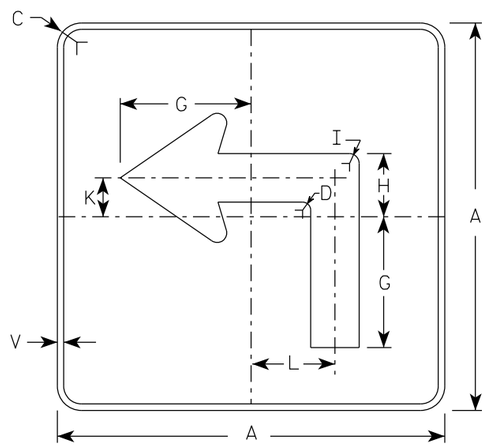
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 397 | E



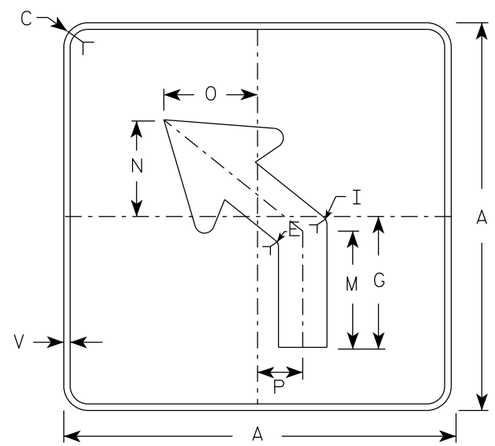
M5-1L
MM5-1L
MO5-1L
MP5-1L



M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L

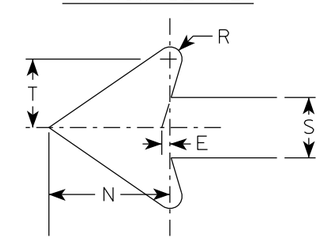


MB5-2L
MK5-2L
MN5-2L
MR5-2L

NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
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. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

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	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
3	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
4	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
5	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25

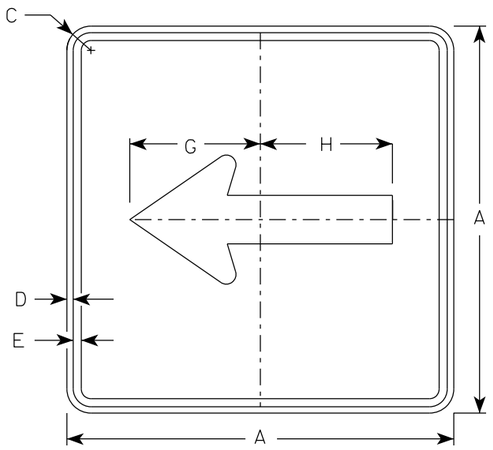
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

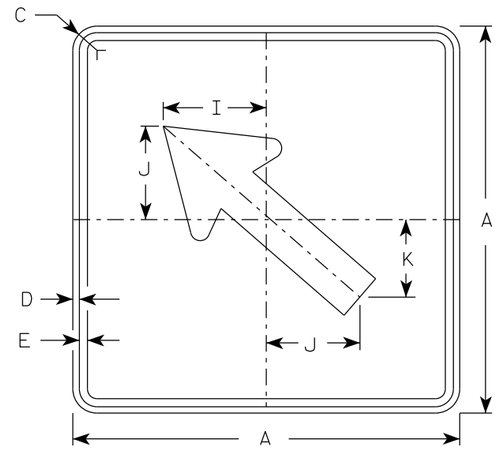
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

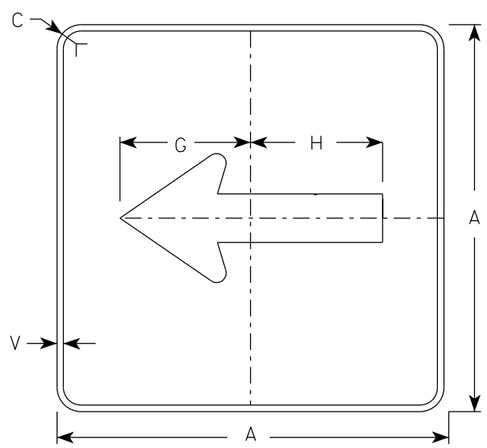
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 398 | E



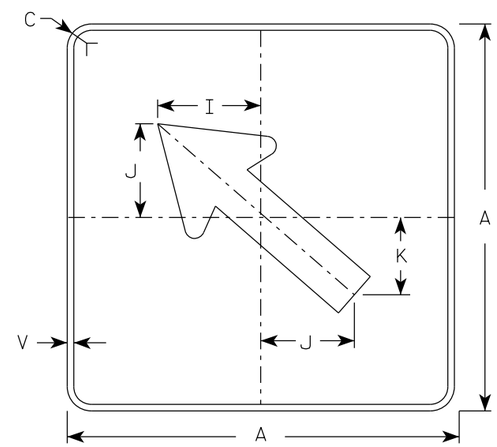
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

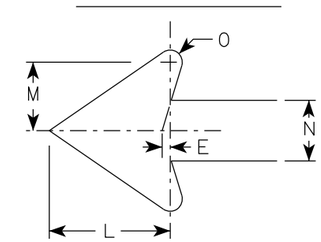


MB6-2
MK6-2
MN6-2
MR6-2

NOTES

1. Signs are Type II - Type H Reflective except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
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. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow

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	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

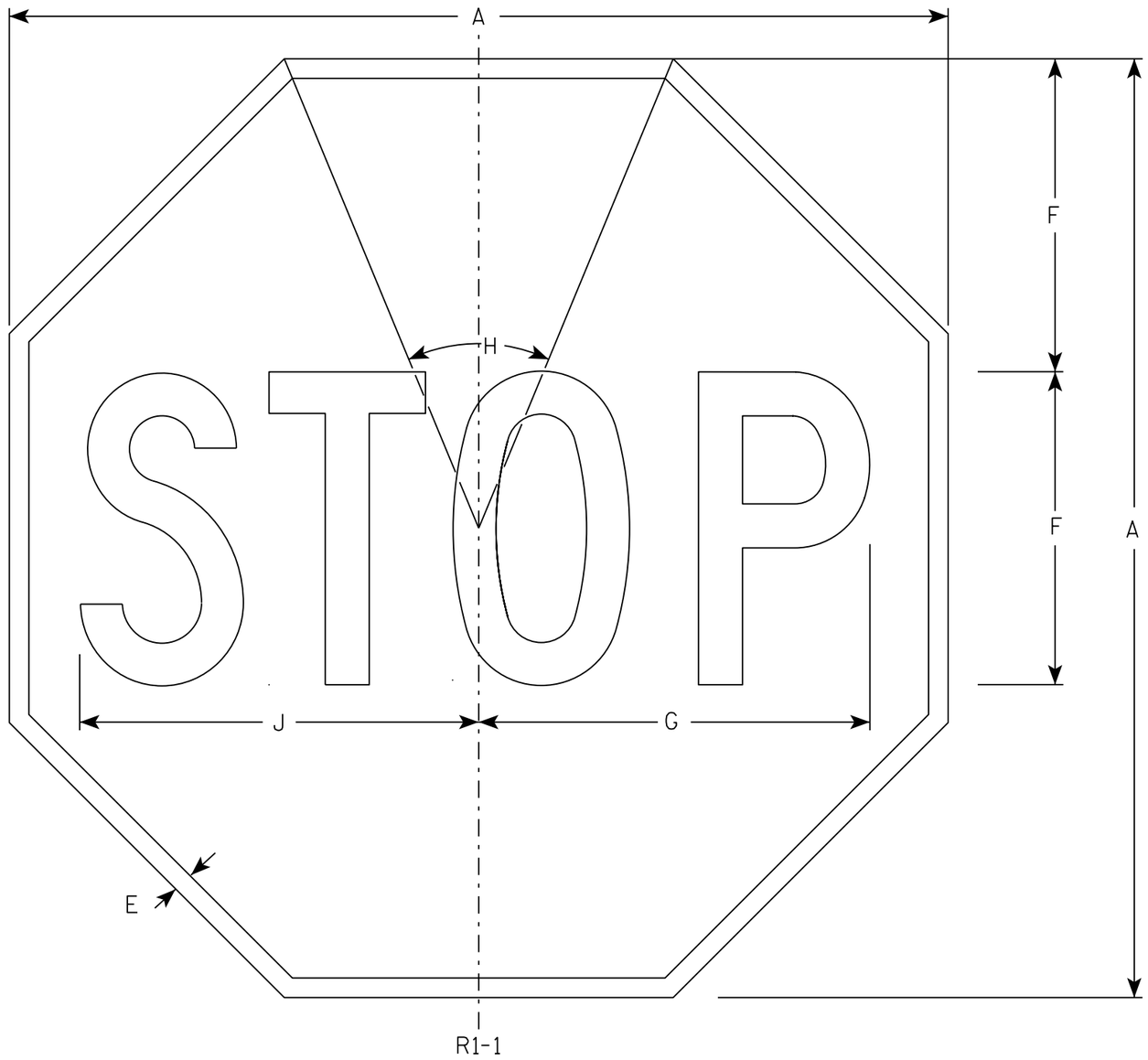
STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 399 | E



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

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

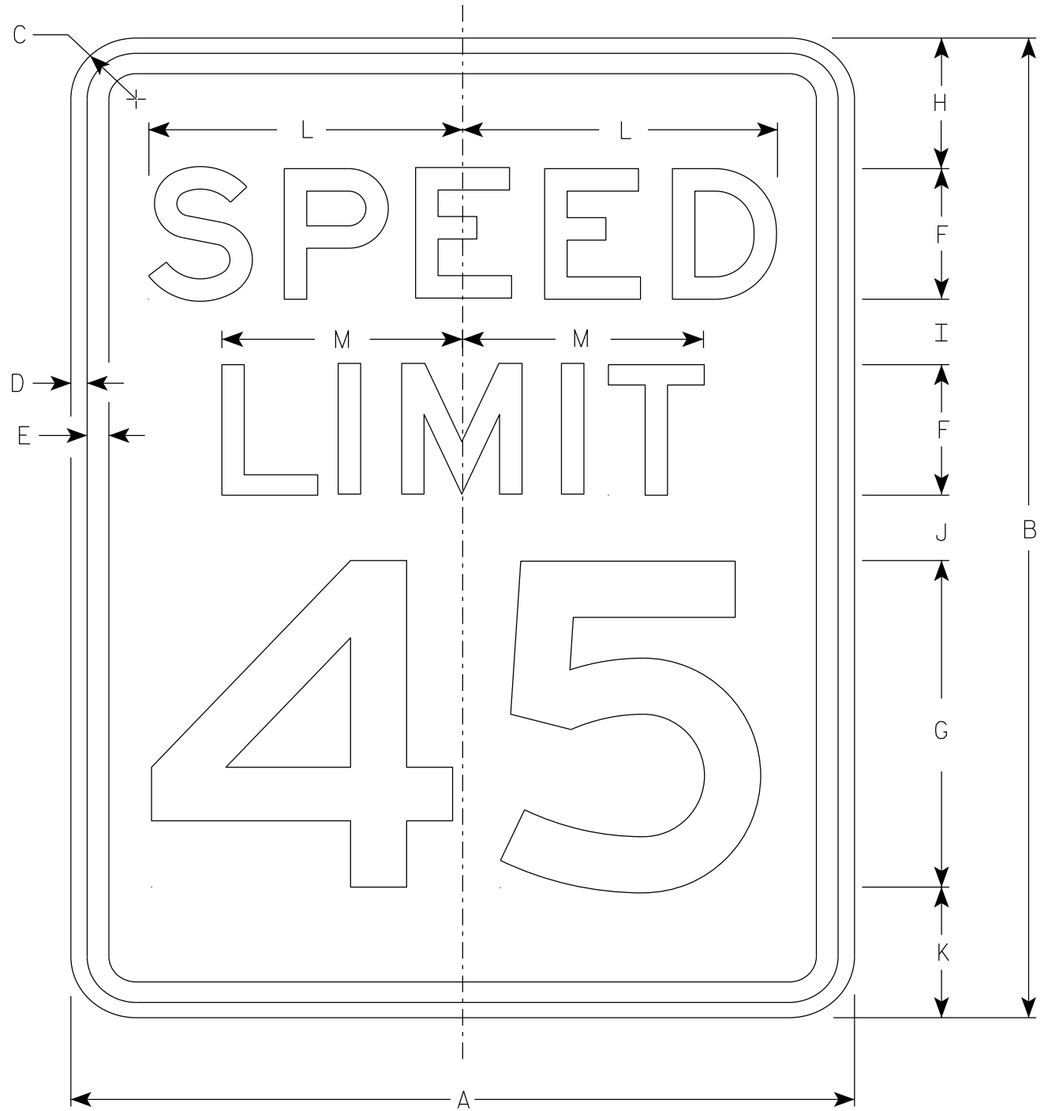
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 400 | E



R2-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. 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 1/2	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/2	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 7/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	3	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

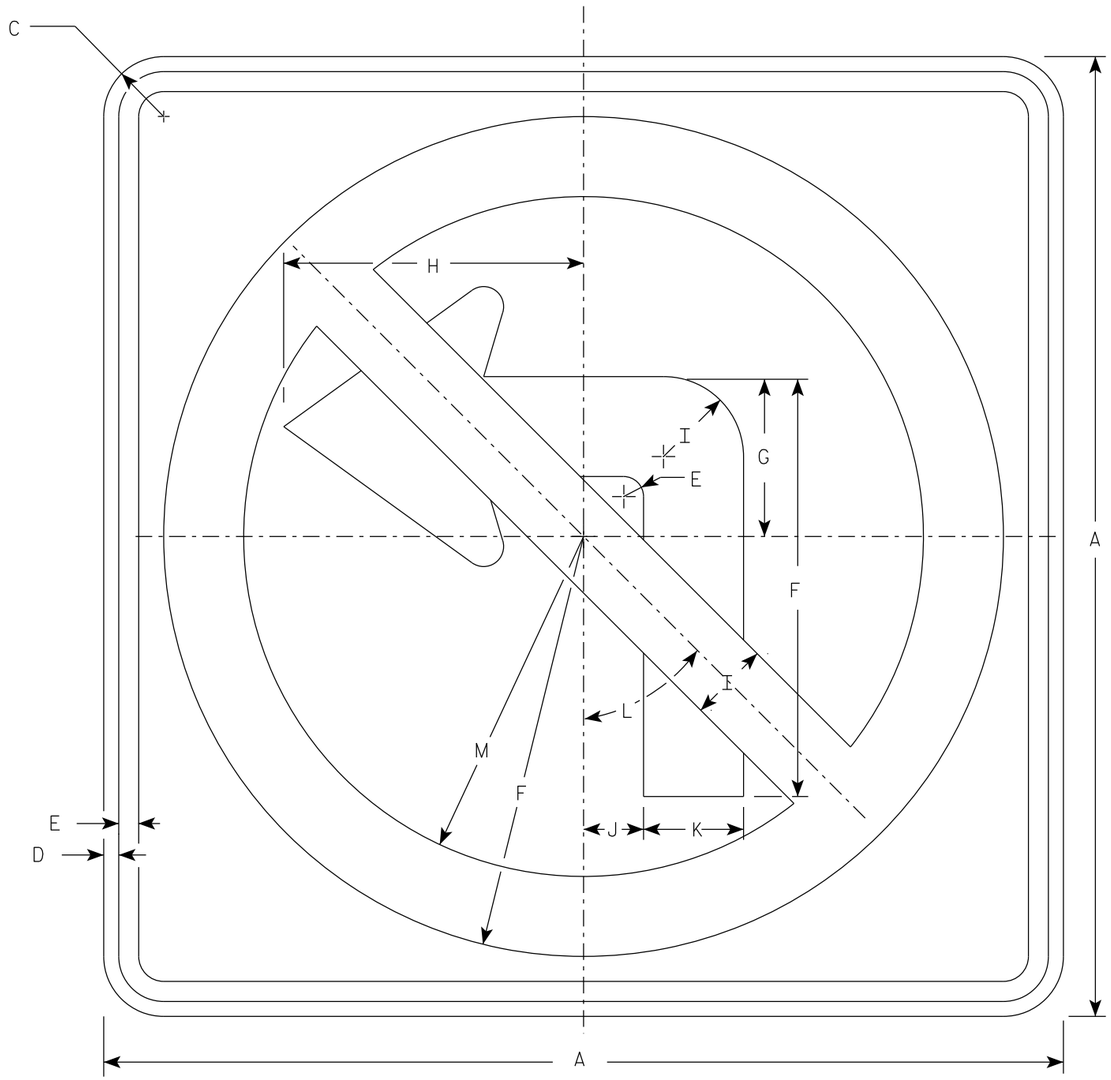
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/23 PLATE NO. R2-1.14

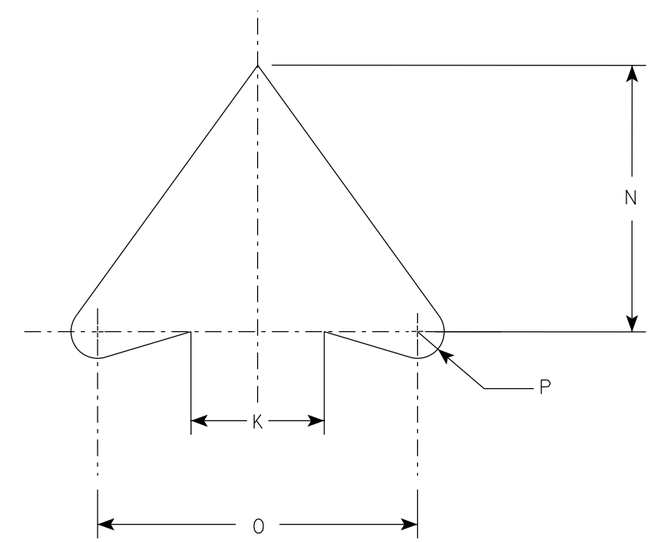
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 401 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See note 3
3. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



R3-2



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	24		1 1/2	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/2	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

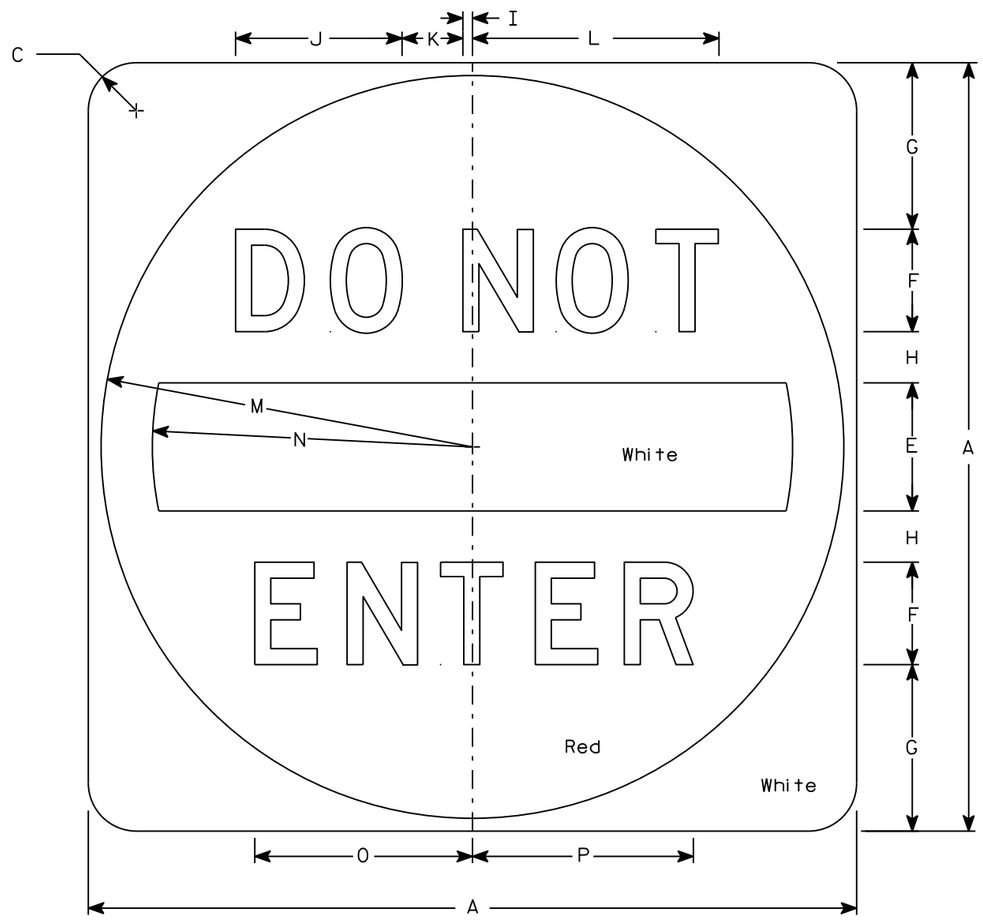
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/2/23 PLATE NO. R3-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 402 | E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

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		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

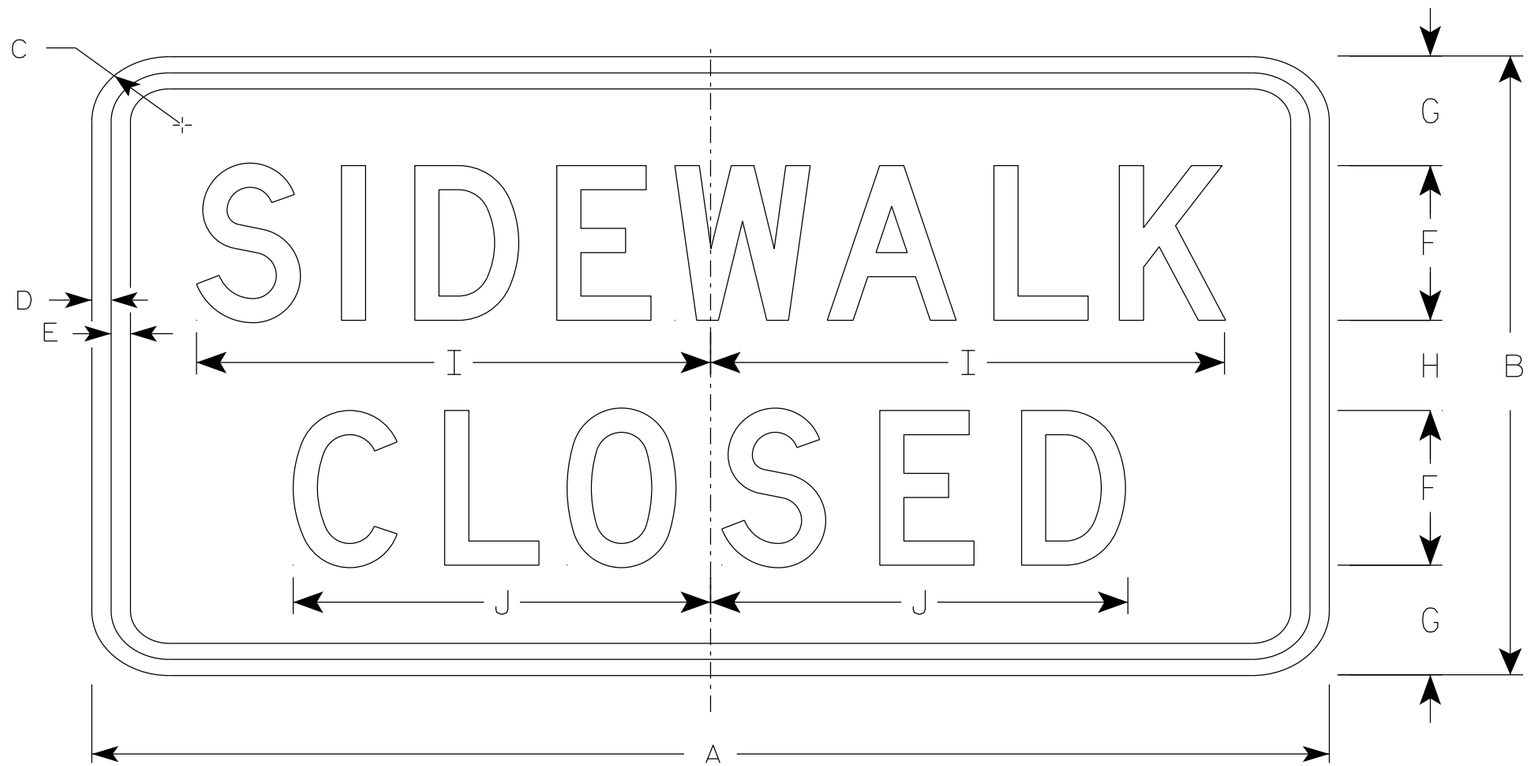
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 403 | E



R9-9

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

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	12	1 1/2	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 1/2	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 1/2	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

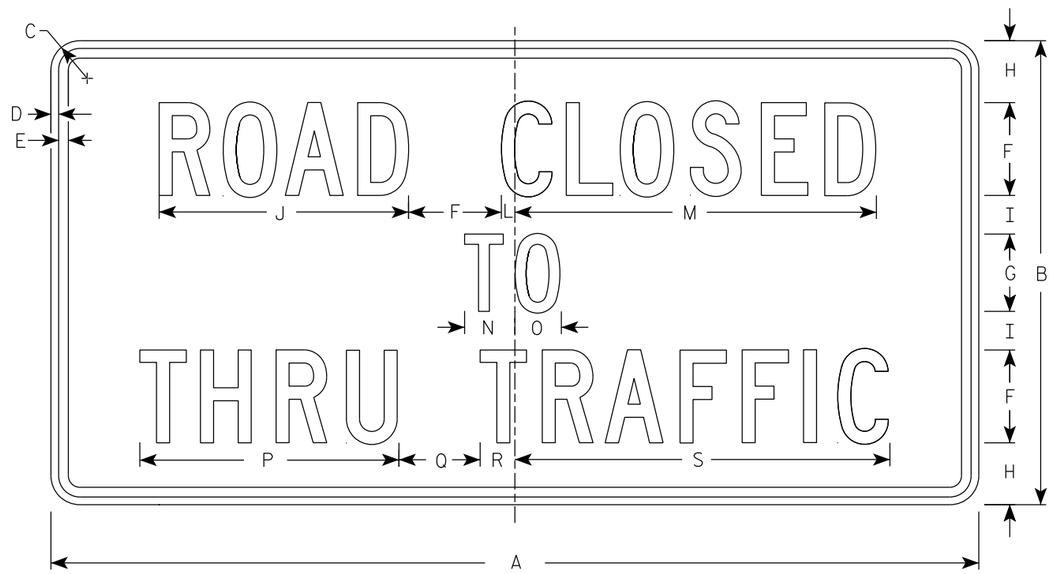
STANDARD SIGN
R9-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/24 PLATE NO. R9-9.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 404 | E



R11-4

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   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																											
2S	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

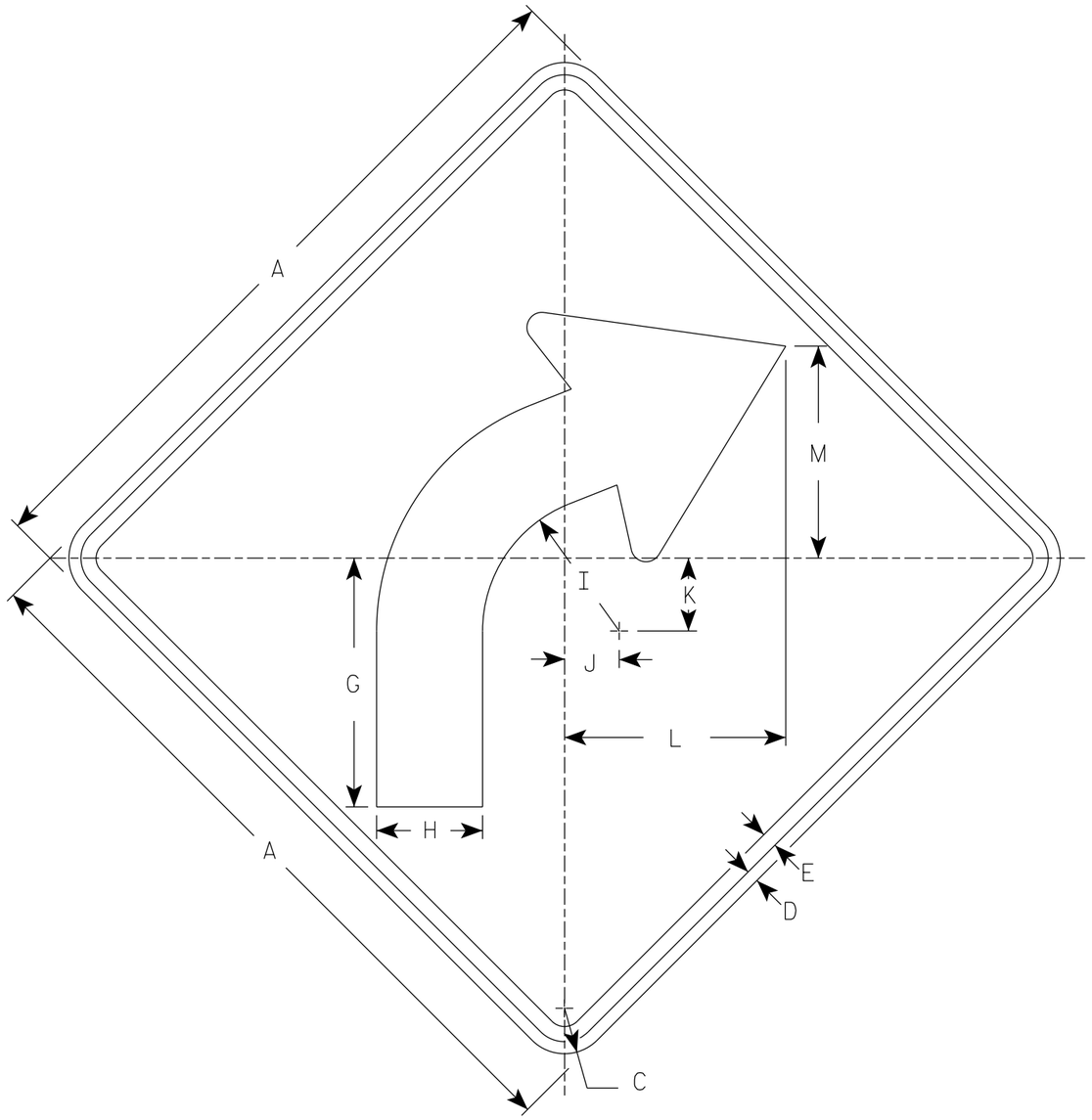
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-4.4

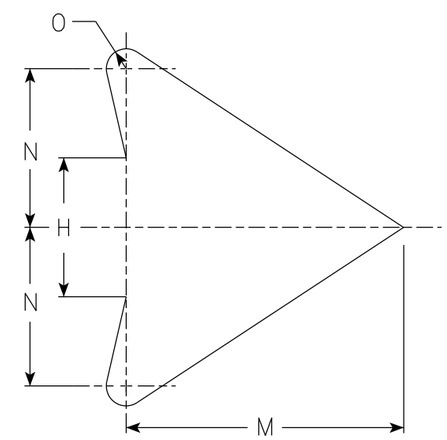
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 405 | E



W1-2R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



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	24		1 1/2	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 7/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		2 1/4	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		2 1/4	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		2 1/4	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		3	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

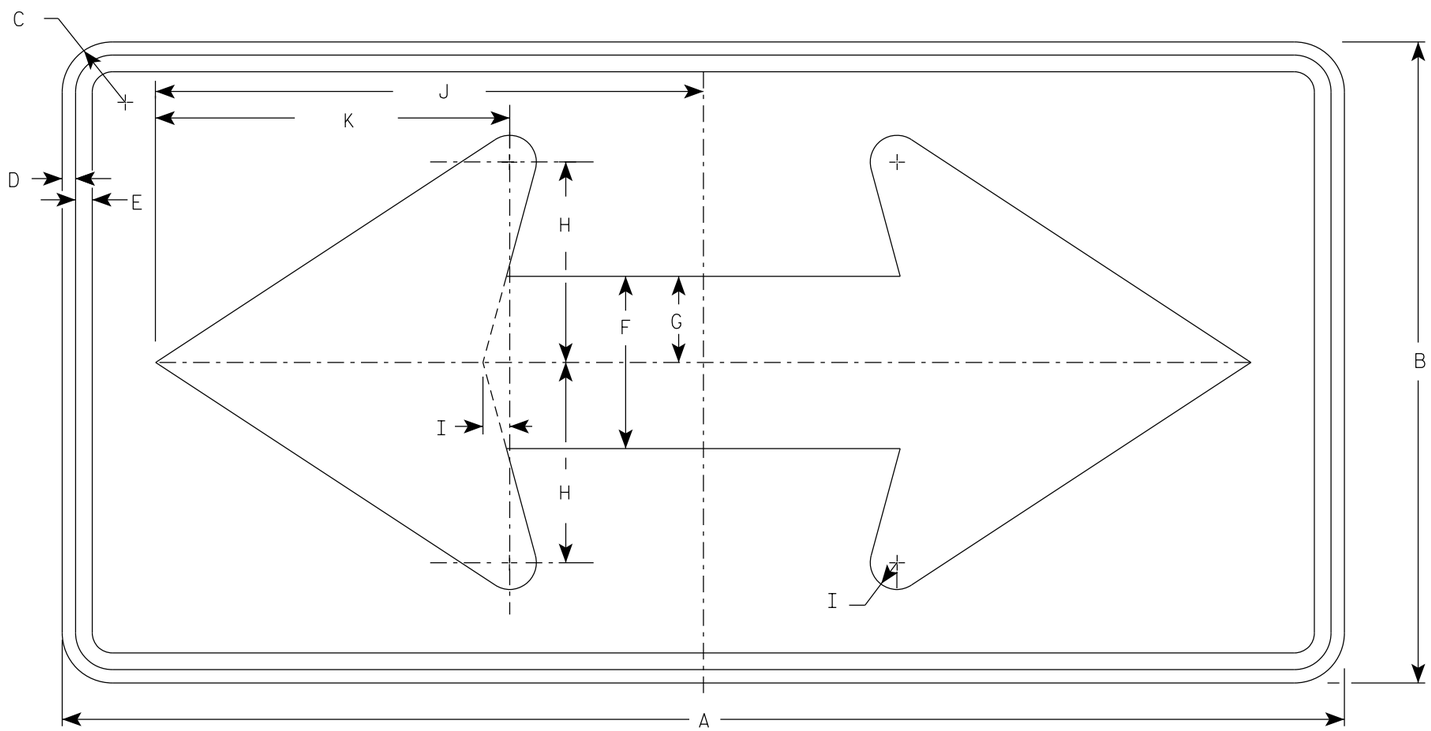
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/2023 PLATE NO. W1-2.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 406	E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black



W1-7

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	36	18	1 1/2	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 7/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 7/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 7/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 7/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	3	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

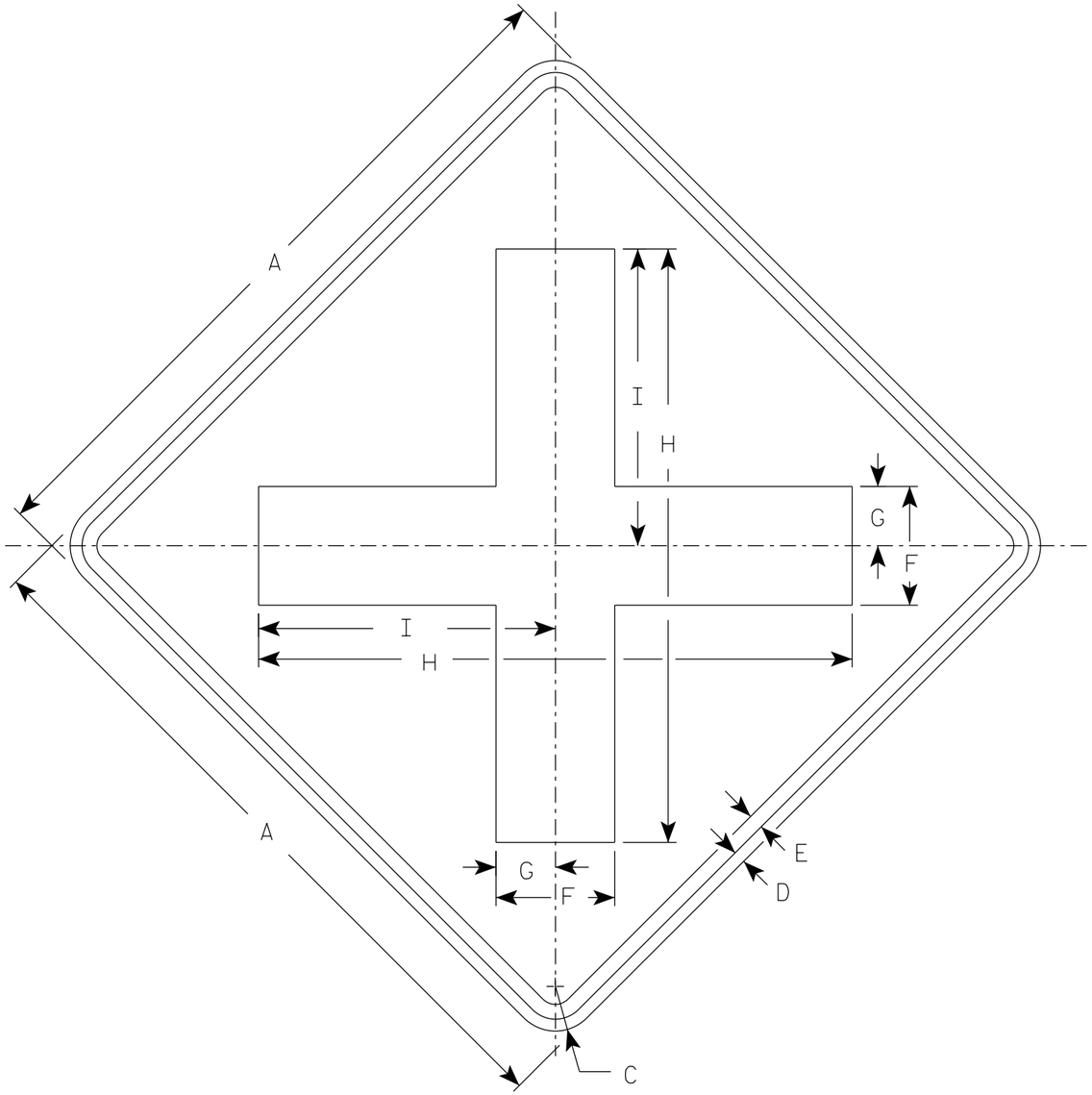
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/10/2023 PLATE NO. W1-7.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 407 | E



W2-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black

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 1/2	3/8	1/2	4	2	20	10																		4.0
2S	30		1 7/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
2M	30		1 7/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
3	36		2 1/4	5/8	3/4	6	3	30	15																		9.0
4	48		3	3/4	1	8	4	40	20																		16.0
5																											

STANDARD SIGN

W2-1

WISCONSIN DEPT OF TRANSPORTATION

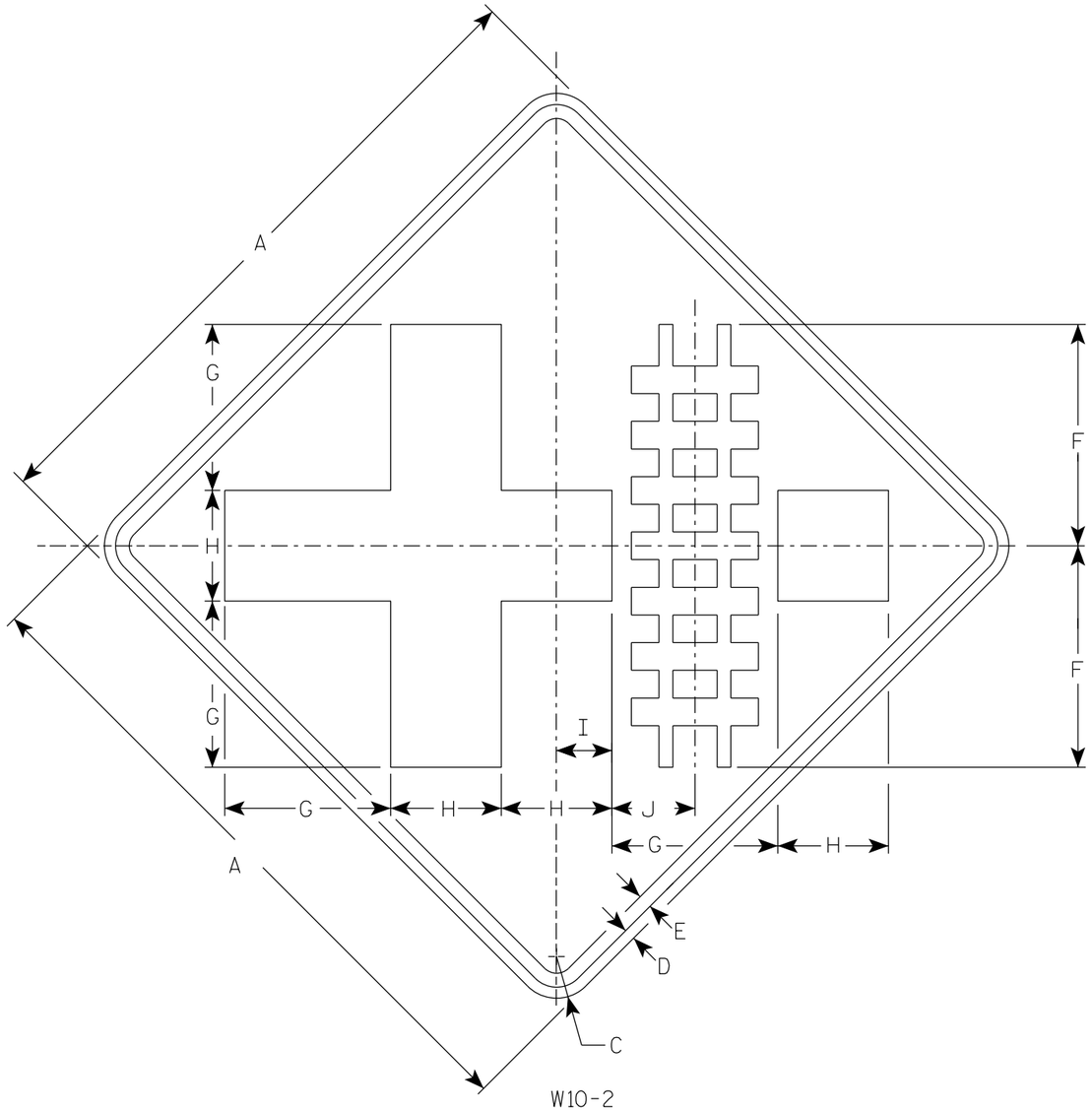
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/2023 PLATE NO. W2-1.10

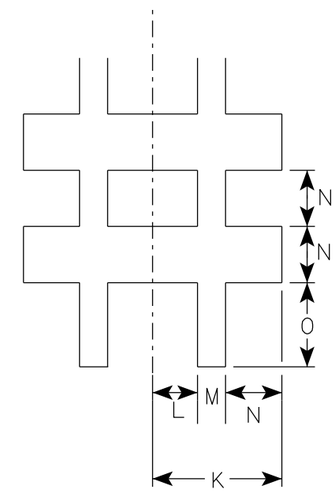
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 408 | E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black



W10-2



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 7/8	1/2	5/8	10	7 1/2	5	2 1/2	3 3/4	2 7/8	1	5/8	1 1/4	1 7/8												6.25
2S	36		2 1/4	5/8	3/4	12	9	6	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
2M	36		2 1/4	5/8	3/4	12	9	6	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
3	36		2 1/4	5/8	3/4	12	9	6	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
4	48		3	3/4	1	16	12	8	4	6	4 1/2	1 1/2	1	2	3												16.0
5																											

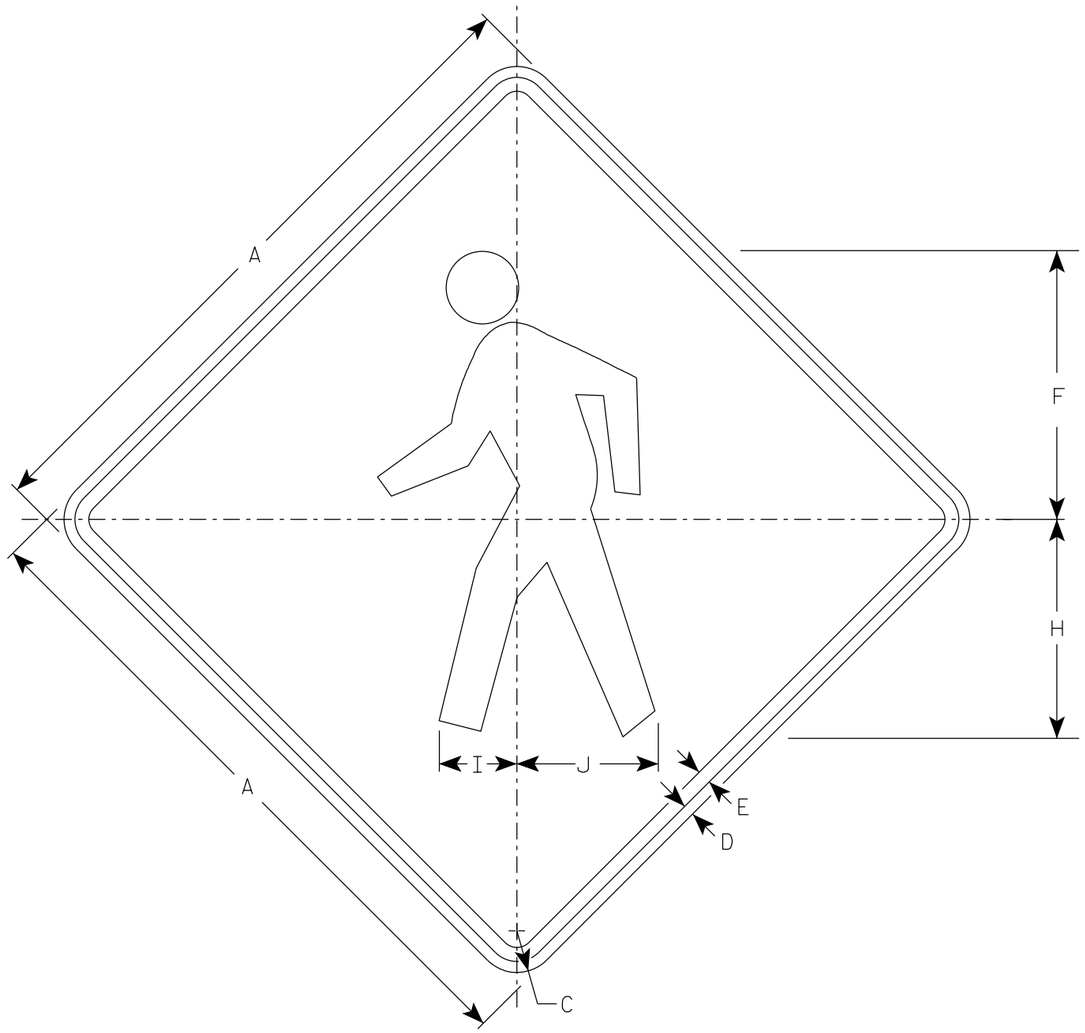
STANDARD SIGN
W10-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/13/2023 PLATE NO. W10-2.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 409	E



W11-2

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black

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 1/2	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 7/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		2 1/4	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		2 1/4	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		3	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

STANDARD SIGN

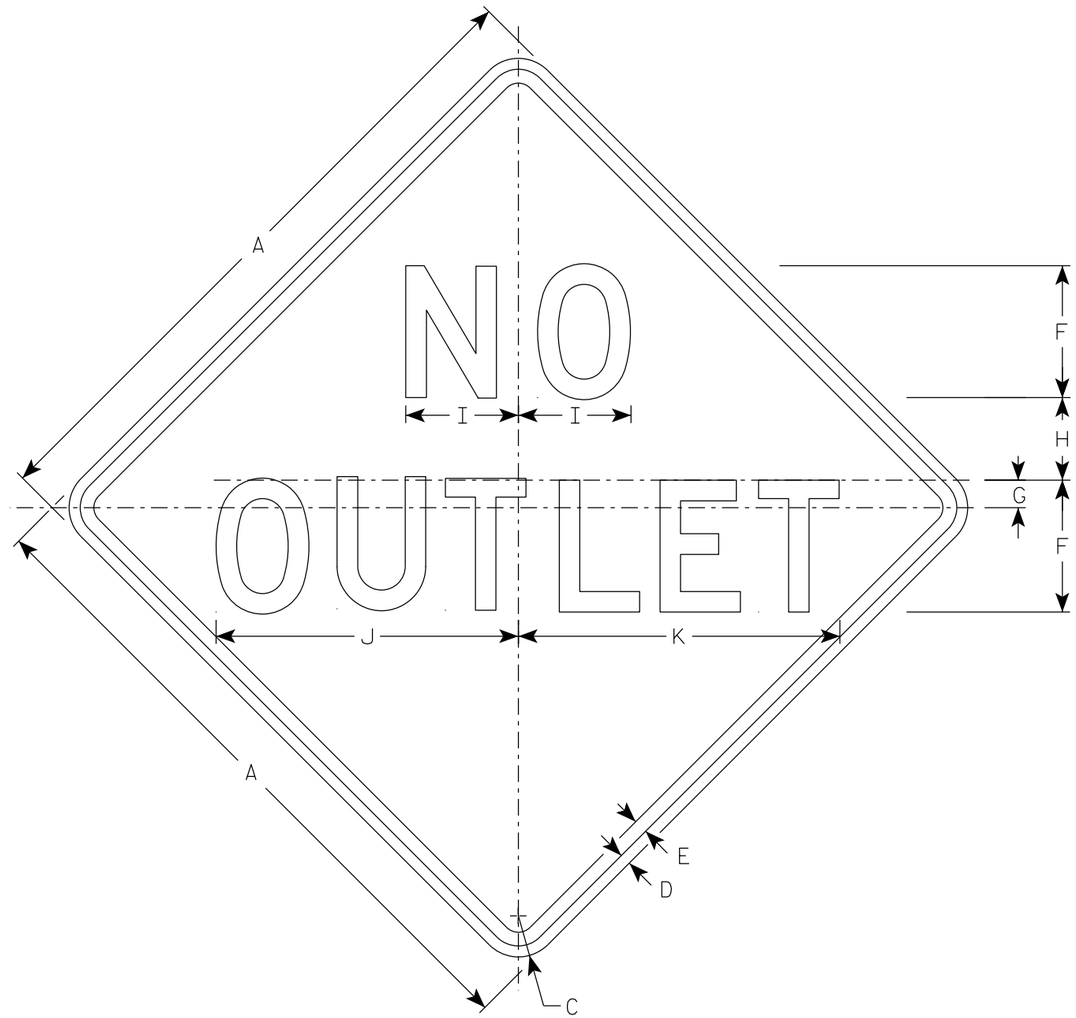
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/15/2023 PLATE NO. W11-2.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 410 | E



W14-2

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D

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 1/2	3/8	1/2	5	1	2 3/4	4 1/8	11 3/4	12 3/8																4.0
2S	30		1 7/8	1/2	5/8	6	1 1/4	3 3/4	5 1/8	13 3/4	14 5/8																6.25
2M	30		1 7/8	1/2	5/8	6	1 1/4	3 3/4	5 1/8	13 3/4	14 5/8																6.25
3	36		2 1/4	5/8	3/4	7	1 3/8	4 5/8	6	16 1/8	17 1/8																9.0
4																											
5																											

STANDARD SIGN
W14-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/8/2024 PLATE NO. W14-2.4

PROJECT NO:

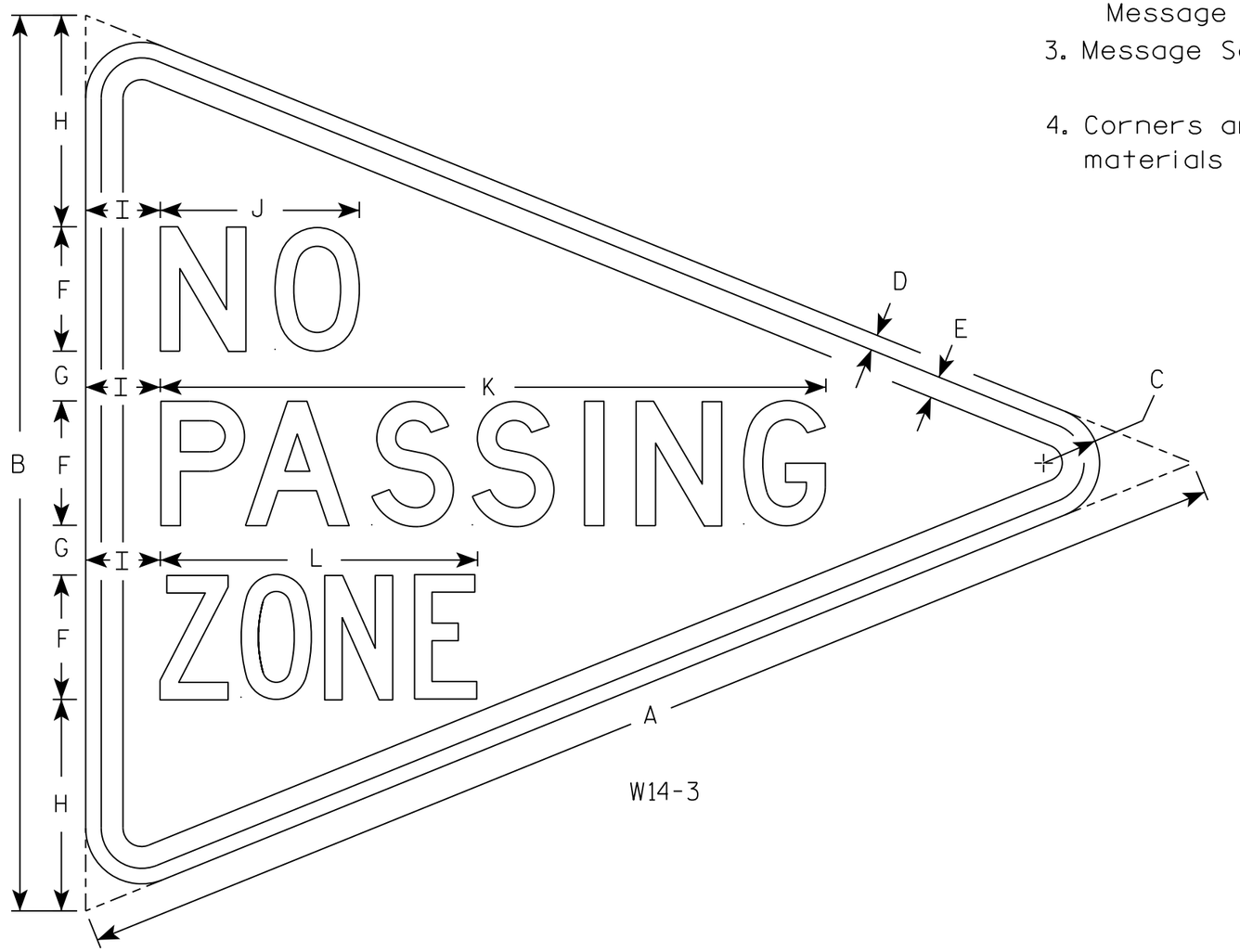
SHEET NO: 411 E

7

7

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

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	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

STANDARD SIGN
W14-3

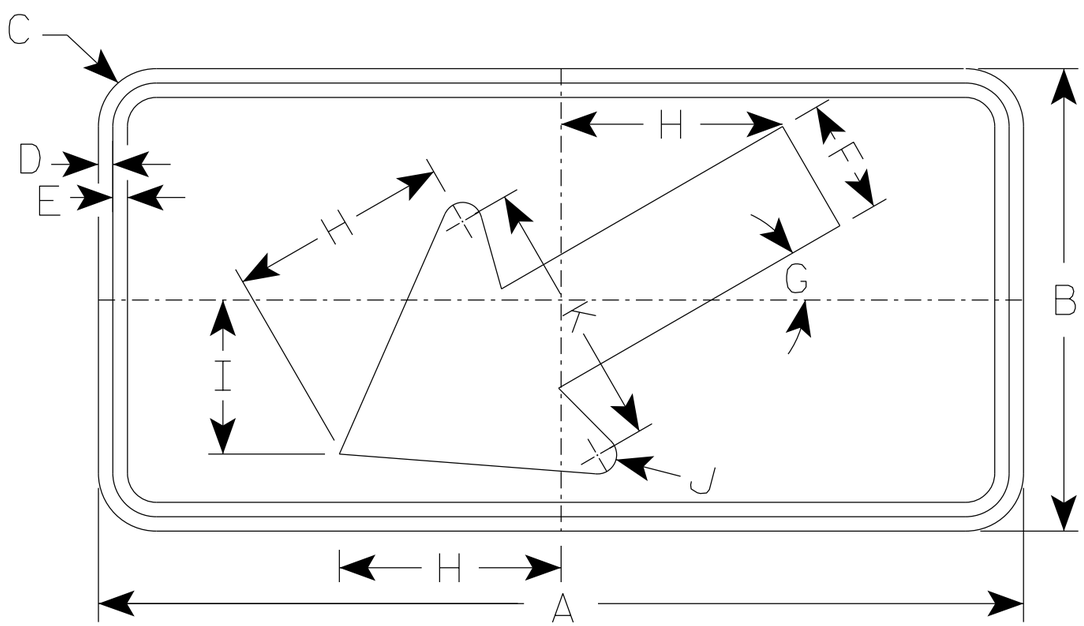
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/21/17 PLATE NO. W14-3.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 412 | E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W16-7R is the same as W16-7L
   except the arrow is reversed along
   the vertical centerline.



W16-7L

7

* For 36" x 36" Warning Signs, use 30" x 18" W16-7L signs.
* For 48" x 48" Warning Signs, use 48" x 24" W16-7L signs.

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																											
	2S	24	12	1 1/2	3/8	3/8	3	30°	5 3/4	4	1/2	7																2.0
*	2M	30	18	1 1/2	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
*	3	30	18	1 1/2	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
*	4	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
	5																											

STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

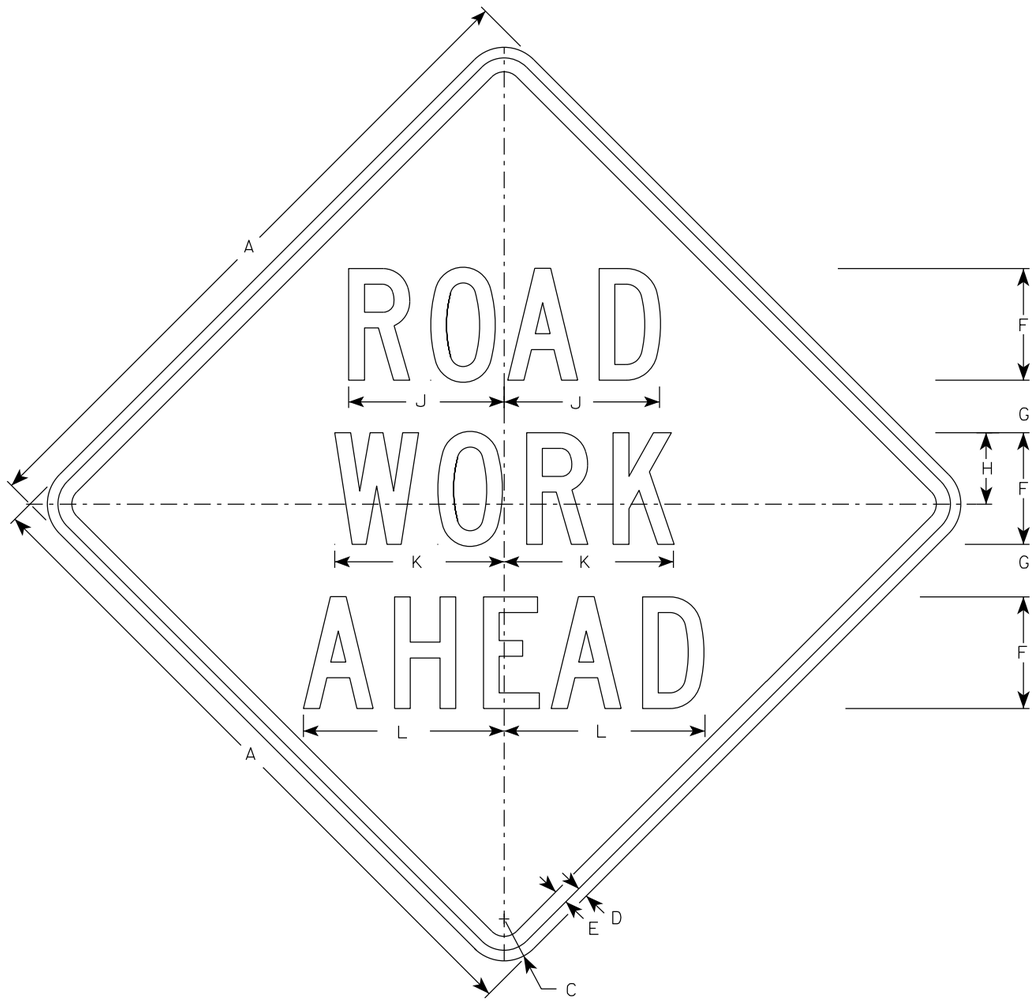
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/9/2024 PLATE NO. W16-7.9

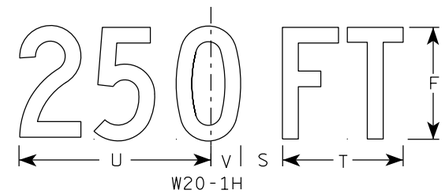
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 413 | E

NOTES

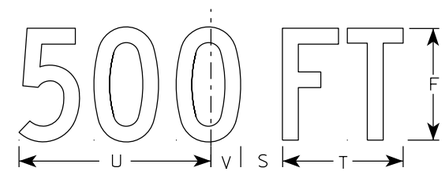
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



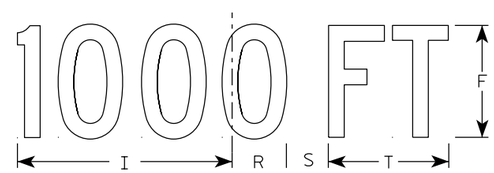
W20-1A



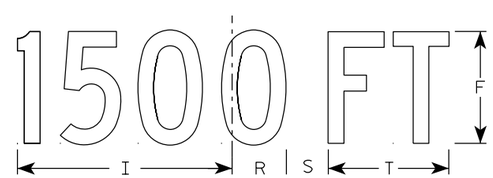
W20-1H



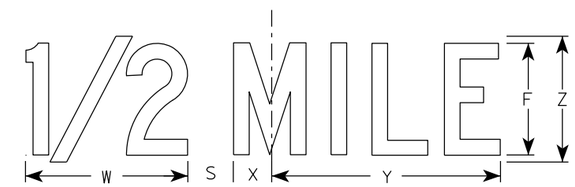
W20-1D



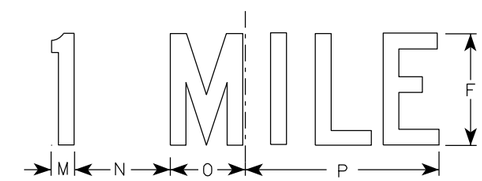
W20-1C



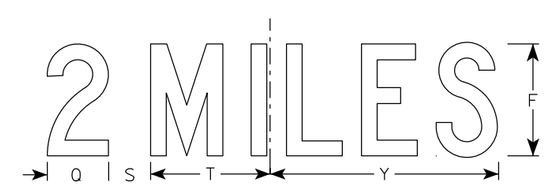
W20-1B



W20-1G



W20-1F



W20-1E

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		2 1/4	5/8	3/4	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	3 1/4	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		3	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		3	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		3	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		3	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		3	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, E, F, G & H

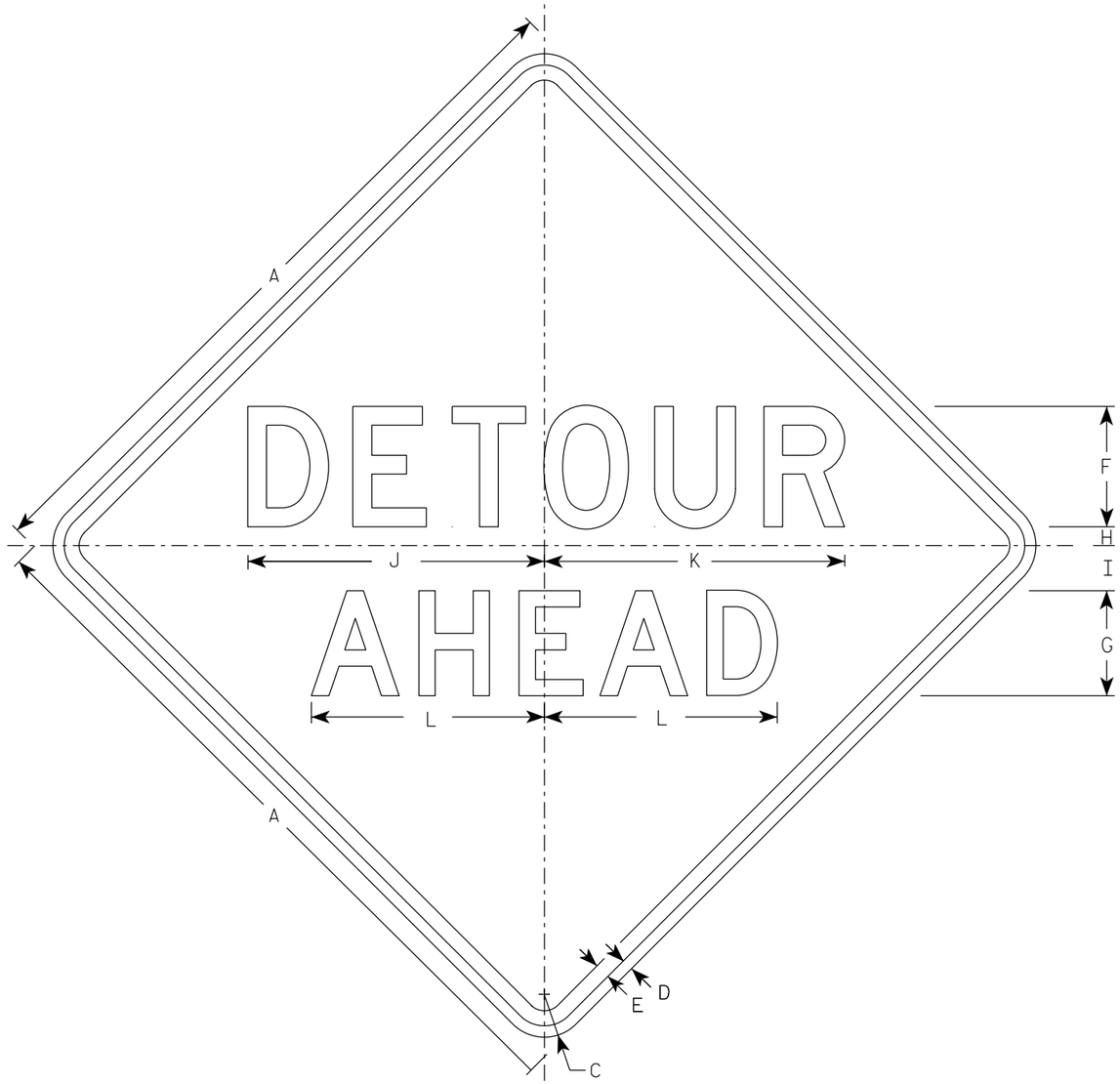
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

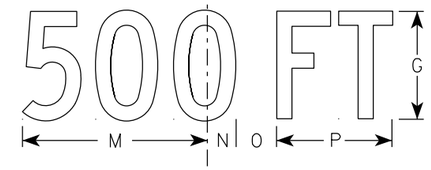
DATE 1/10/2024 PLATE NO. W20-1.12

PROJECT NO:

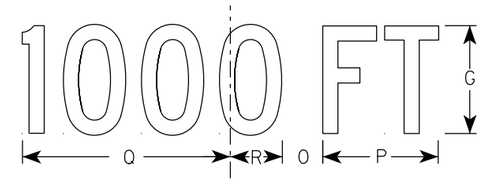
SHEET NO: 414 E



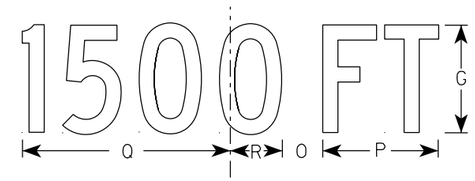
W20-2A



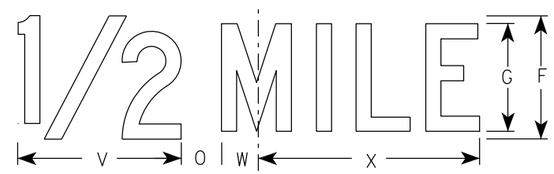
W20-2D



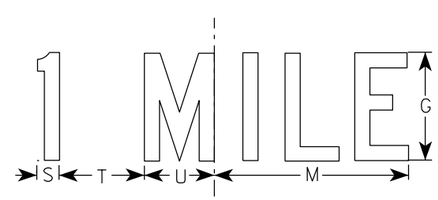
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective
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. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

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		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

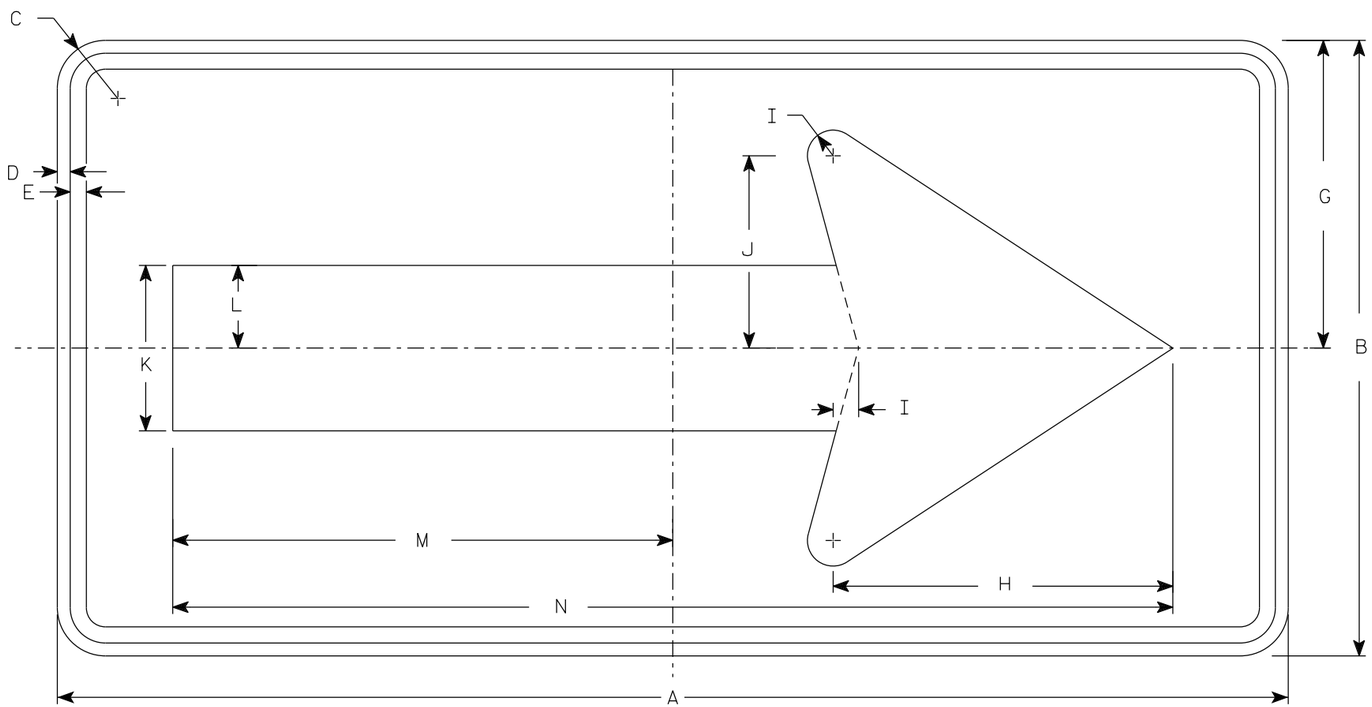
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-2.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



W01-6

NOTES

1. Sign is Type II - Type F Reflective
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.

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 7/8	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 7/8	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 7/8	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 7/8	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 7/8	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 1/24/2024 PLATE NO. W01-6.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

DIVISION 1 - LAKEDR

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT 1.00	EXPANDED FILL 1.00	EXPANDED MARSH BACKFILL 1.00	EXPANDED ROCK 1.00	EXPANDED EBS BACKFILL 1.00	REDUCED MARSH IN FILL 1.00	REDUCED EBS IN FILL 1.00	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
215+04.93	21504.93	0.00	5.59	0.00	0.15	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
215+50.00	21550.00	45.07	7.38	0.00	0.00	0.00	0.00	0.00	11	0	0	0	0	0	11	0	0	0	0	0	0	11
216+00.00	21600.00	50.00	10.67	0.00	1.04	0.00	0.00	0.00	17	0	1	0	0	0	28	1	0	0	0	0	0	27
216+33.11	21633.11	33.11	15.01	0.00	0.58	0.00	0.00	0.00	16	0	1	0	0	0	44	2	0	0	0	0	0	42
216+66.88	21666.88	0.00	15.52	0.00	1.32	0.00	0.00	0.00	0	0	0	0	0	0	44	2	0	0	0	0	0	42
217+00.00	21700.00	33.12	8.85	0.00	1.90	0.00	0.00	0.00	15	0	2	0	0	0	59	4	0	0	0	0	0	55
217+50.00	21750.00	50.00	10.14	0.00	0.11	0.00	0.00	0.00	18	0	2	0	0	0	77	6	0	0	0	0	0	71
218+00.00	21800.00	50.00	8.39	0.00	0.00	0.00	0.00	0.00	17	0	0	0	0	0	94	6	0	0	0	0	0	88
218+50.00	21850.00	50.00	5.52	0.00	0.00	0.00	0.00	0.00	13	0	0	0	0	0	107	6	0	0	0	0	0	101
219+00.00	21900.00	50.00	3.03	0.00	0.00	0.00	0.00	0.00	8	0	0	0	0	0	115	6	0	0	0	0	0	109
241+83.84	24183.84	0.00	4.40	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	115	6	0	0	0	0	0	109
242+00.00	24200.00	16.16	5.25	0.00	0.00	0.00	0.00	0.00	3	0	0	0	0	0	118	6	0	0	0	0	0	112
242+50.00	24250.00	50.00	7.93	0.00	0.00	0.00	0.00	0.00	12	0	0	0	0	0	130	6	0	0	0	0	0	124
243+00.00	24300.00	50.00	9.64	0.00	1.35	0.00	0.00	0.00	16	0	1	0	0	0	146	7	0	0	0	0	0	139
243+50.00	24350.00	50.00	9.41	0.00	0.79	0.00	0.00	0.00	18	0	2	0	0	0	164	9	0	0	0	0	0	155
244+00.00	24400.00	50.00	9.28	0.00	0.11	0.00	0.00	0.00	17	0	1	0	0	0	181	10	0	0	0	0	0	171
244+50.00	24450.00	50.00	9.69	0.00	0.00	0.00	0.00	0.00	18	0	0	0	0	0	199	10	0	0	0	0	0	189
245+00.00	24500.00	50.00	6.67	0.00	0.01	0.00	0.00	0.00	15	0	0	0	0	0	214	10	0	0	0	0	0	204
245+40.86	24540.86	40.86	4.65	0.00	0.00	0.00	0.00	0.00	9	0	0	0	0	0	223	10	0	0	0	0	0	213
268+70.70	26870.70	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	223	10	0	0	0	0	0	213
269+00.00	26900.00	29.30	5.91	0.00	0.00	0.00	0.00	0.00	6	0	0	0	0	0	229	10	0	0	0	0	0	219
269+50.00	26950.00	50.00	5.33	0.00	0.00	0.00	0.00	0.00	10	0	0	0	0	0	239	10	0	0	0	0	0	229
269+51.67	26951.67	1.67	5.29	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	239	10	0	0	0	0	0	229

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH CUT MATERIAL
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)

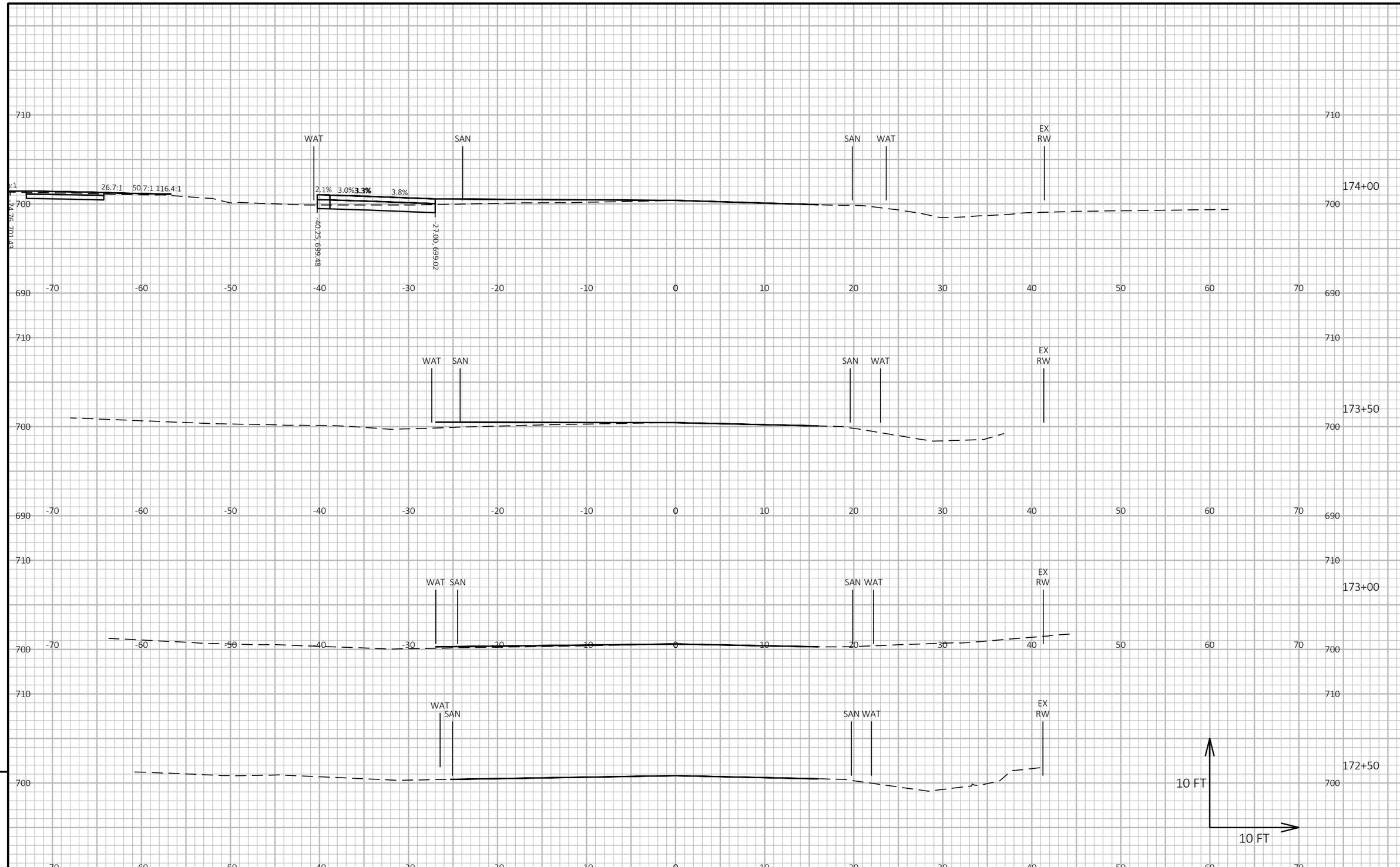
DIVISION 1 - LAKEDR

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3				1.00 NOTE 1	1.00	1.00 NOTE 4	1.00	1.00 NOTE 5	1.00 NOTE 6	1.00 NOTE 7	NOTE 8
170+32.34	17032.34	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170+50.00	17050.00	17.66	5.98	0.00	0.00	0.00	0.00	0.00	4	0	0	0	0	0	4	0	0	0	0	0	0	4
171+00.00	17100.00	50.00	8.08	0.00	1.12	0.00	0.00	0.00	13	0	1	0	0	0	17	1	0	0	0	0	0	16
171+50.00	17150.00	50.00	10.43	0.00	1.82	0.00	0.00	0.00	17	0	3	0	0	0	34	4	0	0	0	0	0	30
172+00.00	17200.00	50.00	6.26	0.00	0.03	0.00	0.00	0.00	15	0	2	0	0	0	49	6	0	0	0	0	0	43
172+28.33	17228.33	28.33	2.92	0.00	0.00	0.00	0.00	0.00	5	0	0	0	0	0	54	6	0	0	0	0	0	48
174+88.34	17488.34	0.00	13.00	0.00	2.31	0.00	0.00	0.00	0	0	0	0	0	0	54	6	0	0	0	0	0	48
175+00.00	17500.00	11.66	10.19	0.00	0.86	0.00	0.00	0.00	5	0	1	0	0	0	59	7	0	0	0	0	0	52
175+50.00	17550.00	50.00	6.95	0.00	0.05	0.00	0.00	0.00	16	0	1	0	0	0	75	8	0	0	0	0	0	67
176+00.00	17600.00	50.00	13.61	0.00	0.07	0.00	0.00	0.00	19	0	0	0	0	0	94	8	0	0	0	0	0	86
176+50.00	17650.00	50.00	11.16	0.00	0.65	0.00	0.00	0.00	23	0	1	0	0	0	117	9	0	0	0	0	0	108
177+00.00	17700.00	50.00	8.57	0.00	0.63	0.00	0.00	0.00	18	0	1	0	0	0	135	10	0	0	0	0	0	125
177+50.00	17750.00	50.00	7.43	0.00	0.66	0.00	0.00	0.00	15	0	1	0	0	0	150	11	0	0	0	0	0	139
178+00.00	17800.00	50.00	7.74	0.00	0.29	0.00	0.00	0.00	14	0	1	0	0	0	164	12	0	0	0	0	0	152
178+50.00	17850.00	50.00	5.28	0.00	0.00	0.00	0.00	0.00	12	0	0	0	0	0	176	12	0	0	0	0	0	164
178+77.39	17877.39	27.39	3.81	0.00	0.00	0.00	0.00	0.00	5	0	0	0	0	0	181	12	0	0	0	0	0	169
195+58.35	19558.35	0.00	3.08	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	181	12	0	0	0	0	0	169
196+00.00	19600.00	41.65	4.74	0.00	0.00	0.00	0.00	0.00	6	0	0	0	0	0	187	12	0	0	0	0	0	175
196+50.00	19650.00	50.00	5.05	0.00	0.00	0.00	0.00	0.00	9	0	0	0	0	0	196	12	0	0	0	0	0	184
197+00.00	19700.00	50.00	3.01	0.00	0.00	0.00	0.00	0.00	7	0	0	0	0	0	203	12	0	0	0	0	0	191
197+50.00	19750.00	50.00	4.33	0.00	0.00	0.00	0.00	0.00	7	0	0	0	0	0	210	12	0	0	0	0	0	198
198+00.00	19800.00	50.00	6.55	0.00	2.04	0.00	0.00	0.00	10	0	2	0	0	0	220	14	0	0	0	0	0	206
198+50.00	19850.00	50.00	8.21	0.00	3.51	0.00	0.00	0.00	14	0	5	0	0	0	234	19	0	0	0	0	0	215
199+00.00	19900.00	50.00	10.44	0.00	2.17	0.00	0.00	0.00	17	0	5	0	0	0	251	24	0	0	0	0	0	227
199+50.00	19950.00	50.00	1.51	0.00	2.11	0.00	0.00	0.00	11	0	4	0	0	0	262	28	0	0	0	0	0	234
200+00.00	20000.00	50.00	10.60	0.00	2.95	0.00	0.00	0.00	11	0	5	0	0	0	273	33	0	0	0	0	0	240
200+50.00	20050.00	50.00	11.30	0.00	1.52	0.00	0.00	0.00	20	0	4	0	0	0	293	37	0	0	0	0	0	256
200+64.24	20064.24	14.24	6.00	0.00	0.80	0.00	0.00	0.00	5	0	1	0	0	0	298	38	0	0	0	0	0	260
201+66.80	20166.80	0.00	5.04	0.00	0.25	0.00	0.00	0.00	0	0	0	0	0	0	298	38	0	0	0	0	0	260
202+00.00	20200.00	33.20	10.17	0.00	0.69	0.00	0.00	0.00	9	0	1	0	0	0	307	39	0	0	0	0	0	268
202+50.00	20250.00	50.00	10.12	0.00	0.09	0.00	0.00	0.00	19	0	1	0	0	0	326	40	0	0	0	0	0	286
203+00.00	20300.00	50.00	8.10	0.00	0.00	0.00	0.00	0.00	17	0	0	0	0	0	343	40	0	0	0	0	0	303
203+50.00	20350.00	50.00	5.51	0.00	0.19	0.00	0.00	0.00	13	0	0	0	0	0	356	40	0	0	0	0	0	316
203+87.09	20387.09	37.09	3.67	0.00	0.00	0.00	0.00	0.00	6	0	0	0	0	0	362	40	0	0	0	0	0	322
214+92.27	21492.27	0.00	11.39	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	362	40	0	0	0	0	0	322
215+00.00	21500.00	7.73	4.12	0.00	1.86	0.00	0.00	0.00	2	0	0	0	0	0	364	40	0	0	0	0	0	324
215+50.00	21550.00	50.00	6.73	0.00	1.74	0.00	0.00	0.00	10	0	3	0	0	0	374	43	0	0	0	0	0	331
216+00.00	21600.00	50.00	9.48	0.00	0.00	0.00	0.00	0.00	15	0	2	0	0	0	389	45	0	0	0	0	0	344
216+50.00	21650.00	50.00	9.43	0.00	0.15	0.00	0.00	0.00	18	0	0	0	0	0	407	45	0	0	0	0	0	362
217+00.00	21700.00	50.00	9.80	0.00	0.20	0.00	0.00	0.00	18	0	0	0	0	0	425	45	0	0	0	0	0	380
217+21.06	21721.06	21.06	17.78	0.00	0.00	0.00	0.00	0.00	11	0	0	0	0	0	436	45	0	0	0	0	0	391
217+74.88	21774.88	0.00	9.19	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	436	45	0	0	0	0	0	391
218+00.00	21800.00	25.12	7.42	0.00	4.92	0.00	0.00	0.00	8	0	2	0	0	0	444	47	0	0	0	0	0	397
218+50.00	21850.00	50.00	5.19	0.00	6.98	0.00	0.00	0.00	12	0	11	0	0	0	456	58	0	0	0	0	0	398
218+90.91	21890.91	40.91	4.19	0.00	0.70	0.00	0.00	0.00	7	0	6	0	0	0	463	64	0	0	0	0	0	399
241+21.65	24121.65	0.00	3.05	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	463	64	0	0	0	0	0	399
241+50.00	24150.00	28.35	3.02	0.00	0.00	0.00	0.00	0.00	3	0	0	0	0	0	466	64	0	0	0	0	0	402
242+00.00	24200.00	50.00	5.02	0.00	0.04	0.00	0.00	0.00	7	0	0	0	0	0	473	64	0	0	0	0	0	409
242+50.00	24250.00	50.00	7.60	0.00	0.85	0.00	0.00	0.00	12	0	1	0	0	0	485	65	0	0	0	0	0	420
243+00.00	24300.00	50.00	9.56	0.00	0.72	0.00	0.00	0.00	16	0	1	0	0	0	501	66	0	0	0	0	0	435
243+50.00	24350.00	50.00	10.60	0.00	0.00	0.00	0.00	0.00	19	0	1	0	0	0	520	67	0	0	0	0	0	453
243+67.17	24367.17	17.17	12.48	0.00	0.00	0.00	0.00	0.00	7	0	0	0	0	0	527	67	0	0	0	0	0	460
244+75.00	24475.00	0.00	8.93	0.00	0.01	0.00	0.00	0.00	0	0	0	0	0	0	527	67	0	0	0	0	0	460
245+00.00	24500.00	25.00	6.44	0.00	0.04	0.00	0.00	0.00	7	0	0	0	0	0	534	67	0	0	0	0	0	467
245+50.00	24550.00	50.00	3.85	0.00	0.15	0.00	0.00	0.00	10	0	0	0	0	0	544	67	0	0	0	0	0	477
245+85.39	24585.39	35.39	3.00	0.00	0.00	0.00	0.00	0.00	4	0	0	0	0	0	548	67	0	0	0	0	0	481
268+50.00	26850.00	0.00	3.17	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	548	67	0	0	0	0	0	481
269+00.00	26900.00	50.00	5.87	0.00	0.00	0.00	0.00	0.00	8	0	0	0	0	0	556	67	0	0	0	0	0	489
269+50.00	26950.00	50.00	8.43	0.00	0.00	0.00	0.00	0.00	13	0	0	0	0	0	569	67	0	0	0	0	0	502
270+00.00	27000.00	50.00	10.54	0.00	0.00	0.00	0.00	0.00	18	0	0	0	0	0	587	67	0	0	0	0	0	520
270+50.00	27050.00	50.00	10.36	0.00	0.00	0.00	0.00	0.00	19	0	0	0	0	0	606	67	0	0	0	0	0	539
270+97.74	27097.74	47.74	5.34	0.00	0.00	0.00	0.00	0.00	14	0	0	0	0	0	620	67	0	0	0	0	0	553

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH CUT MATERIAL
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 32 (LAKE DR)	SHEET 419	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\DESIGN\CORRIDORS\CRDR_LAKEDR.DWG
LAYOUT NAME - XS-1
PLOT DATE : 10/14/2024 3:54 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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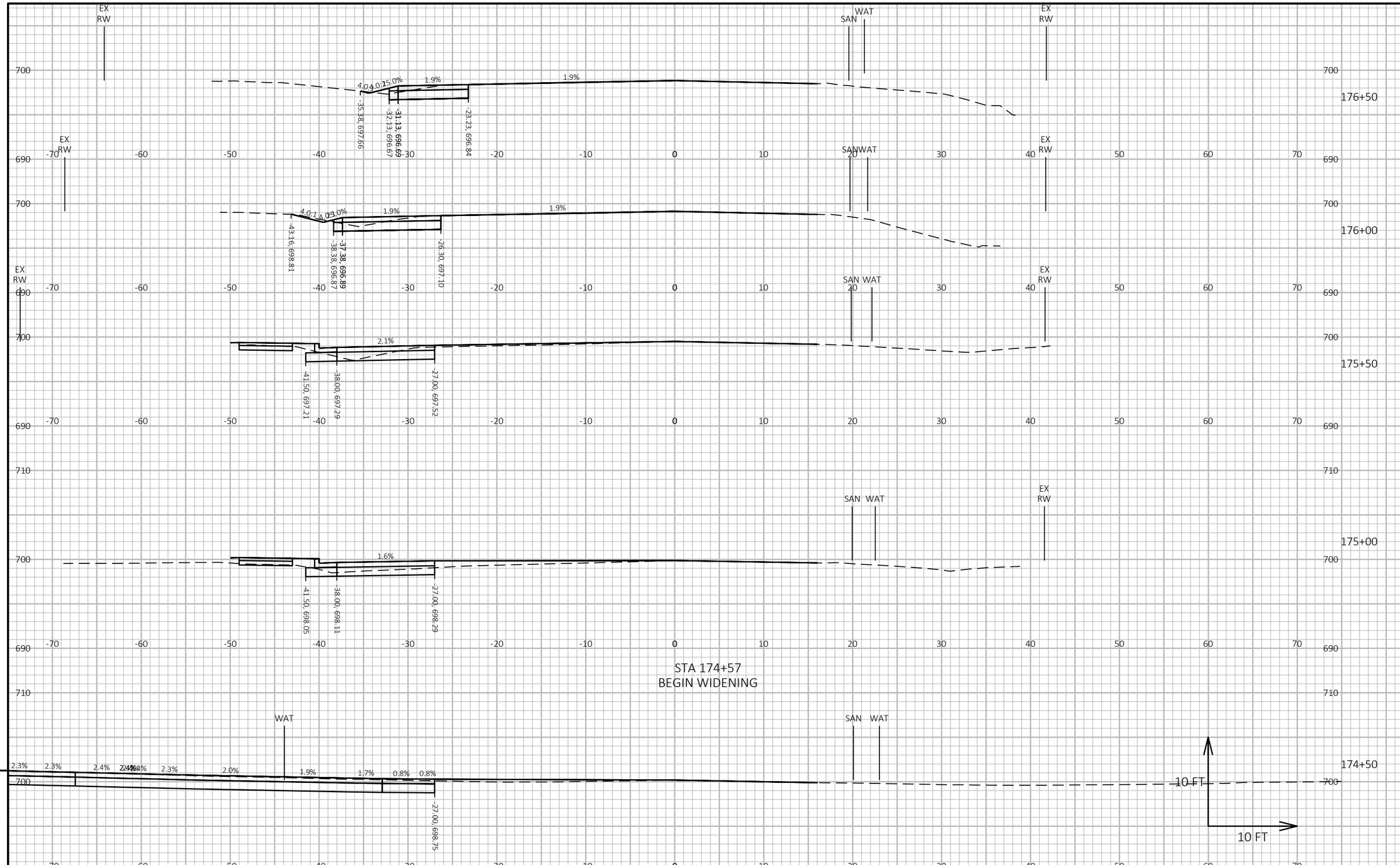
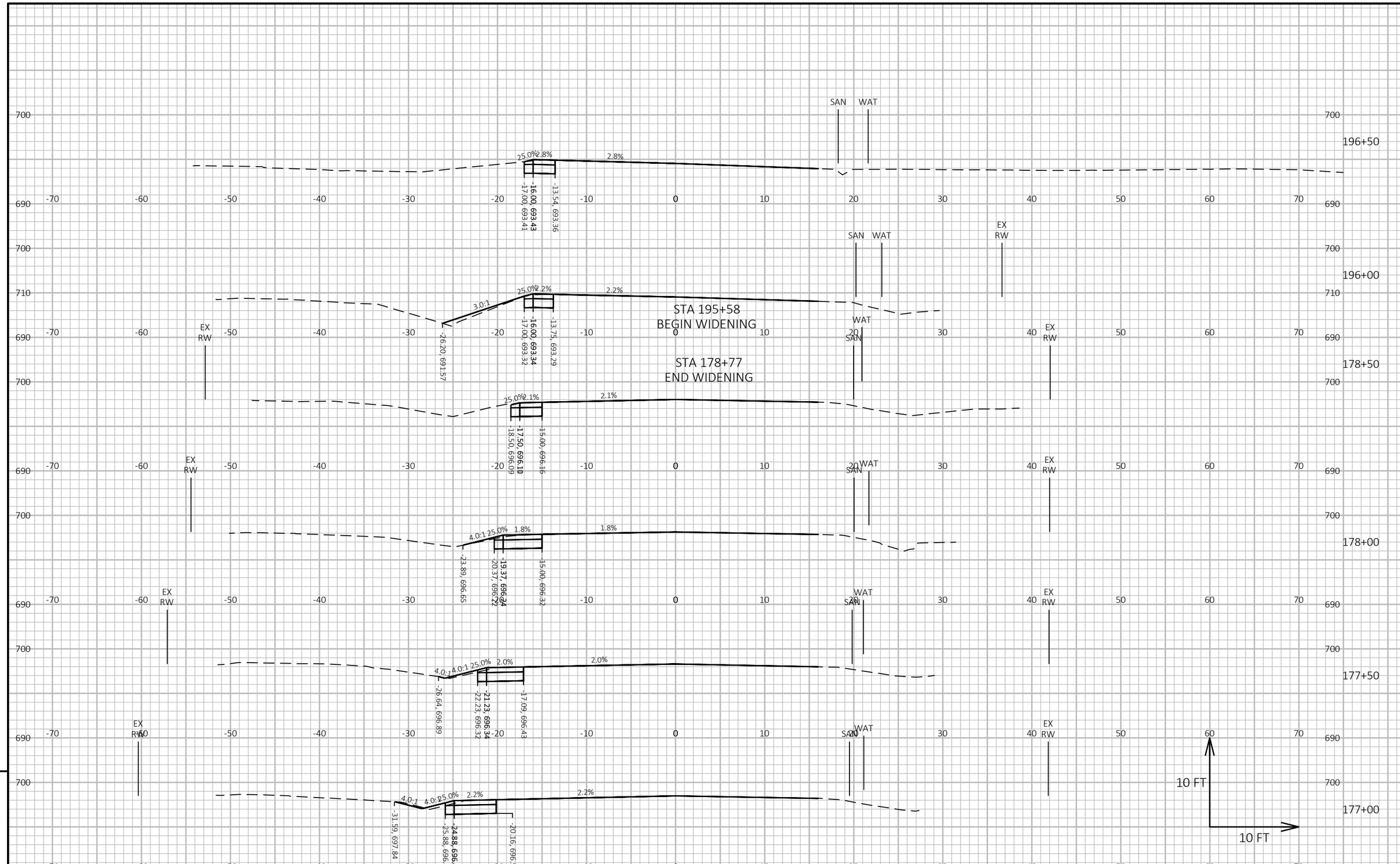
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 32 (LAKE DR)	SHEET 420	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\DESIGN\CORRIDORS\CRDR_LAKEDR.DWG
LAYOUT NAME - XS-2
PLOT DATE : 10/14/2024 3:54 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



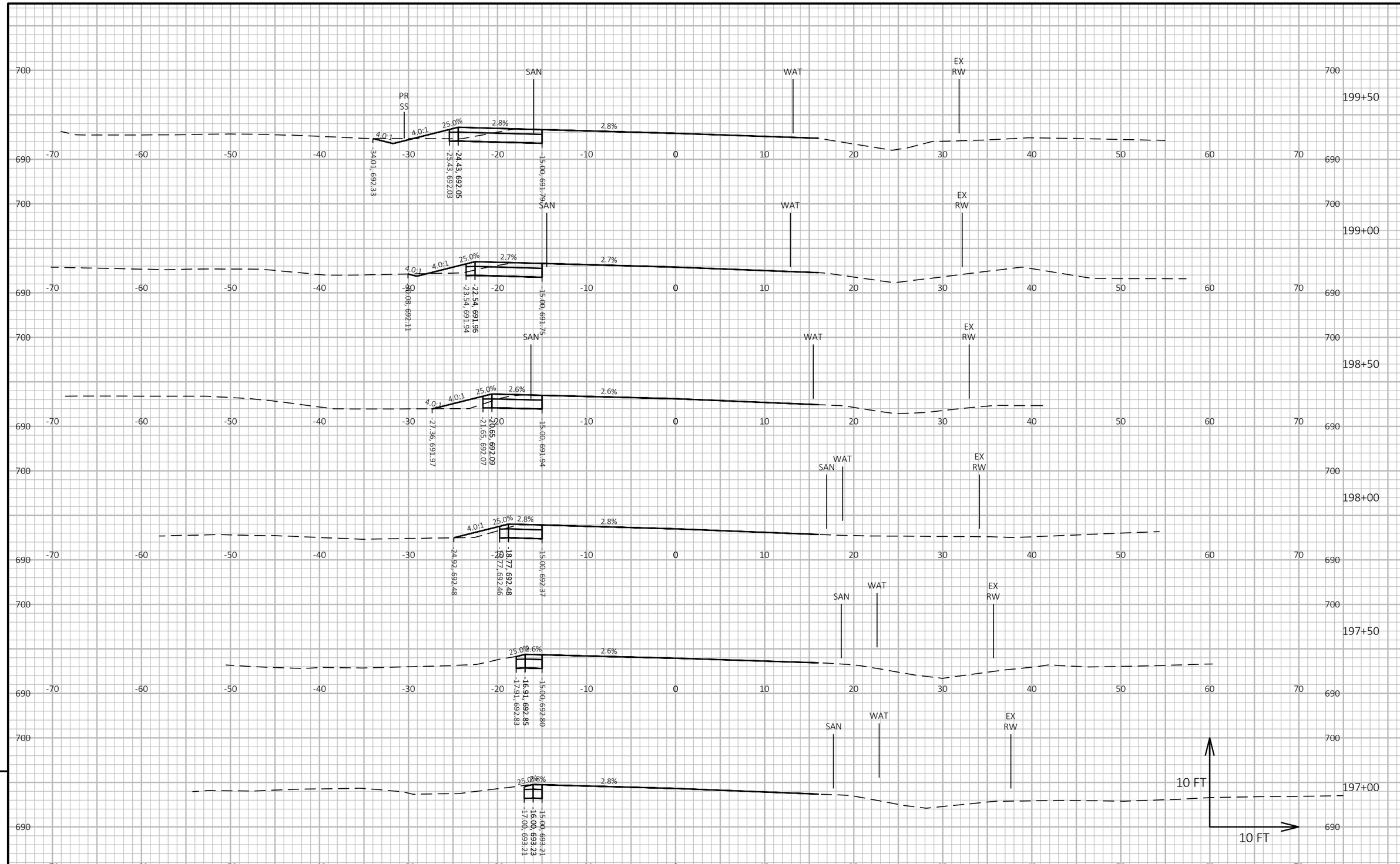
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 32 (LAKE DR)	SHEET 421	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\DESIGN\CORRIDORS\CRDR_LAKEDR.DWG
LAYOUT NAME - XS-3
PLOT DATE : 10/14/2024 3:54 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



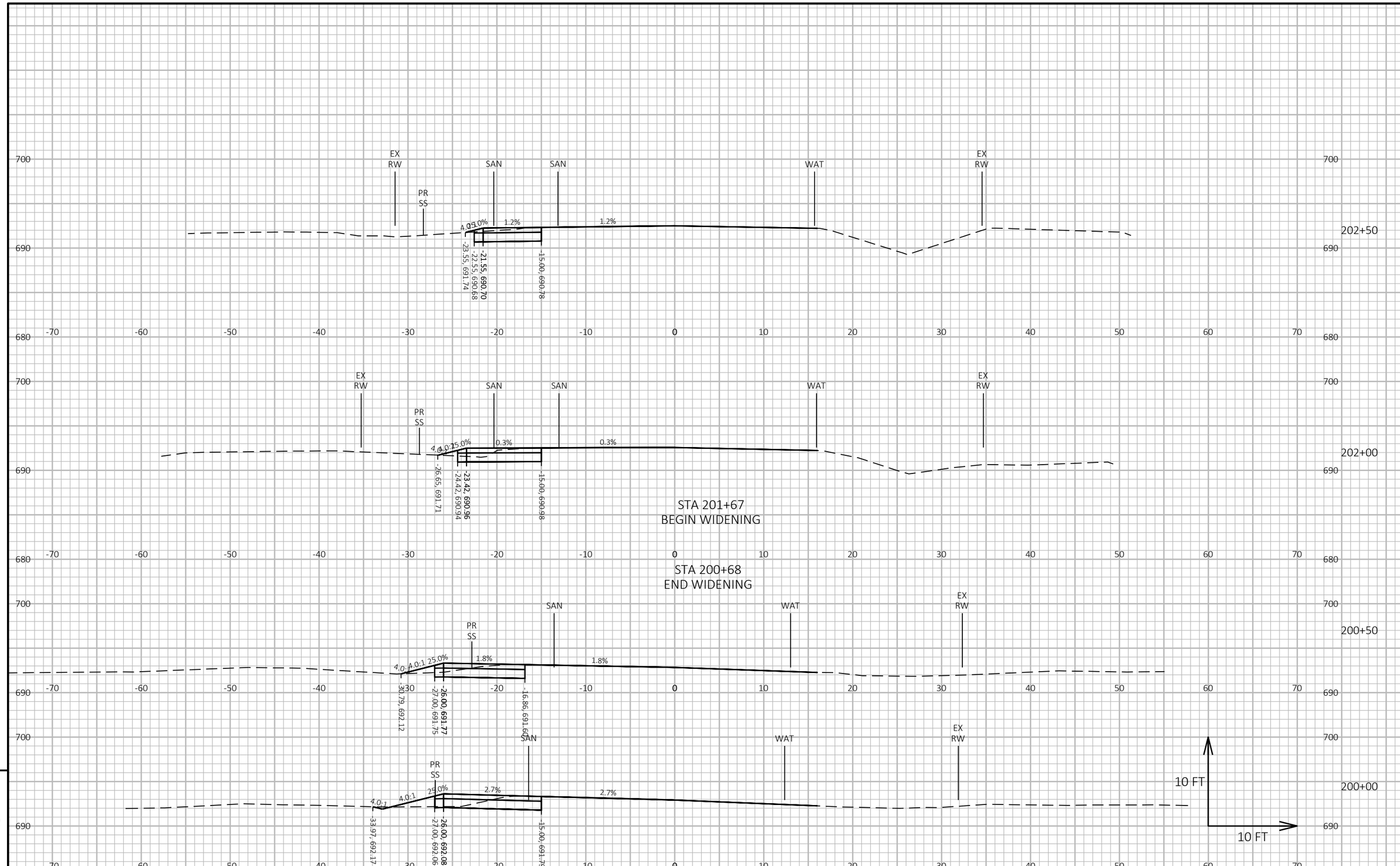
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 32 (LAKE DR)	SHEET 422	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\DESIGN\CORRIDORS\CRDR_LAKEDR.DWG
LAYOUT NAME - XS-4
PLOT DATE : 10/14/2024 3:54 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 32 (LAKE DR)	SHEET 423	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\DESIGN\CORRIDORS\CRDR_LAKEDR.DWG
LAYOUT NAME - XS-5
PLOT DATE : 10/14/2024 3:54 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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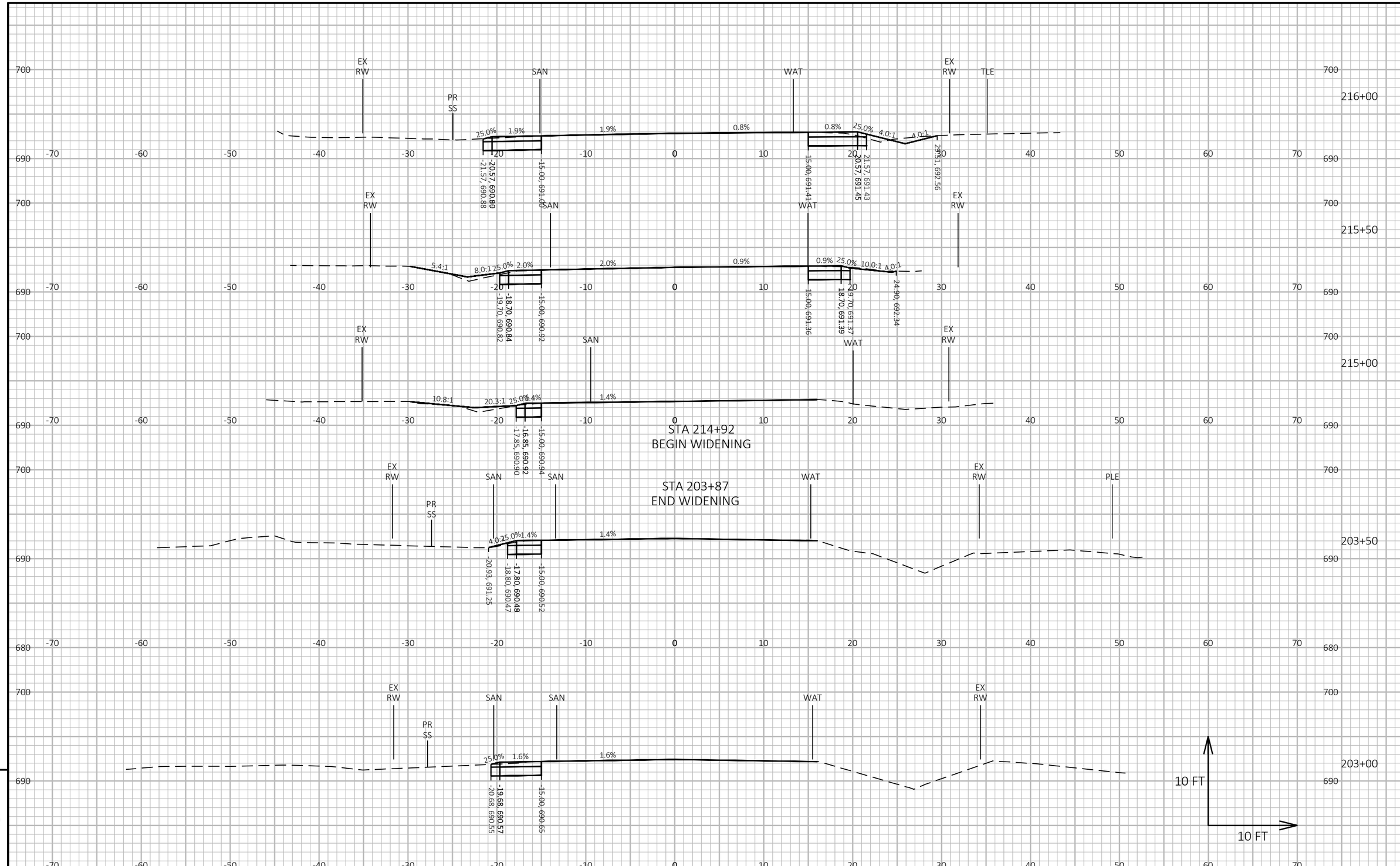
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 32 (LAKE DR)	SHEET 424	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\DESIGN\CORRIDORS\CRDR_LAKEDR.DWG
LAYOUT NAME - XS-6

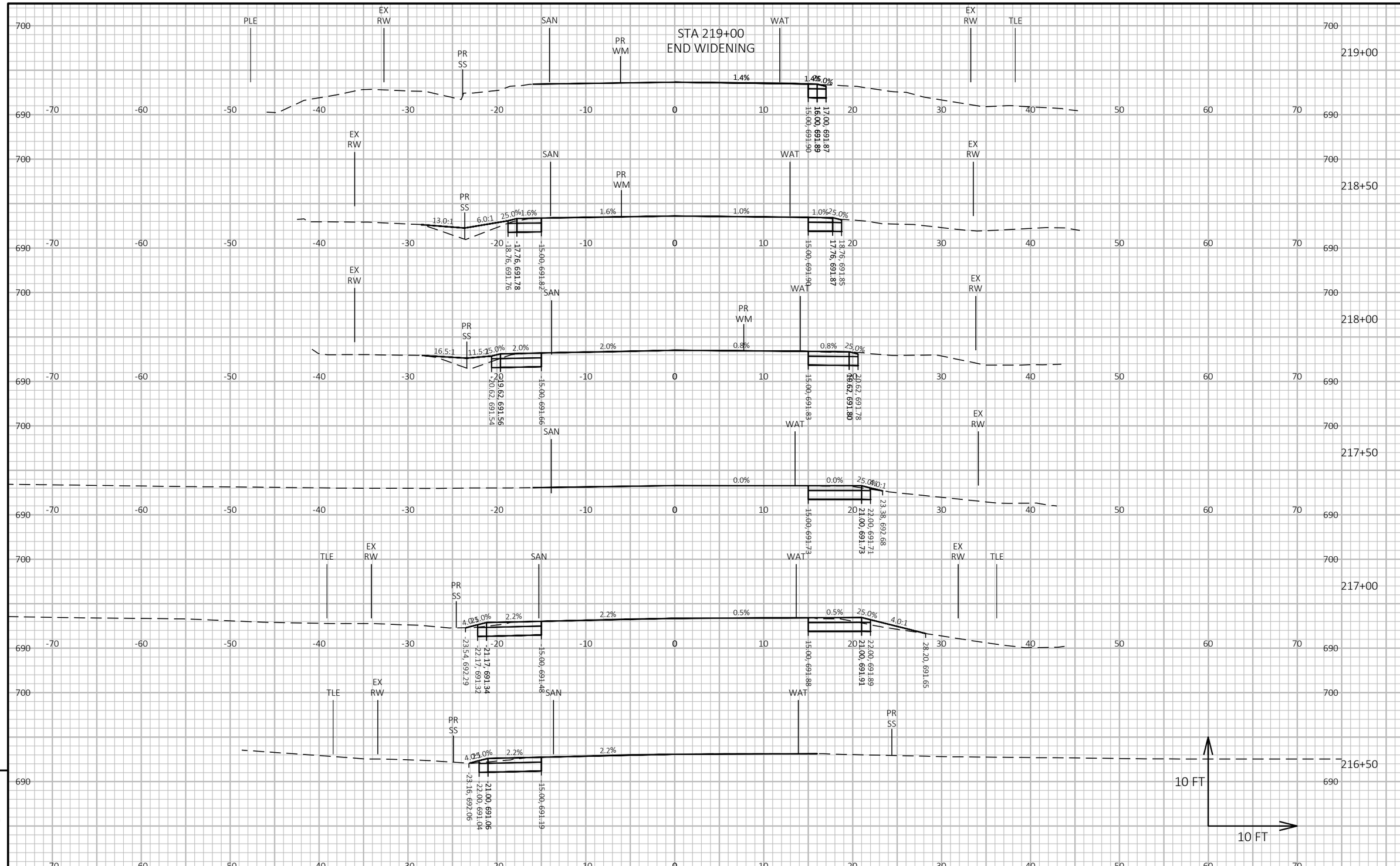
PLOT DATE : 10/14/2024 3:54 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 32 (LAKE DR)	SHEET 425	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\DESIGN\CORRIDORS\CRDR_LAKEDR.DWG
LAYOUT NAME - XS-7
PLOT DATE : 10/14/2024 3:54 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

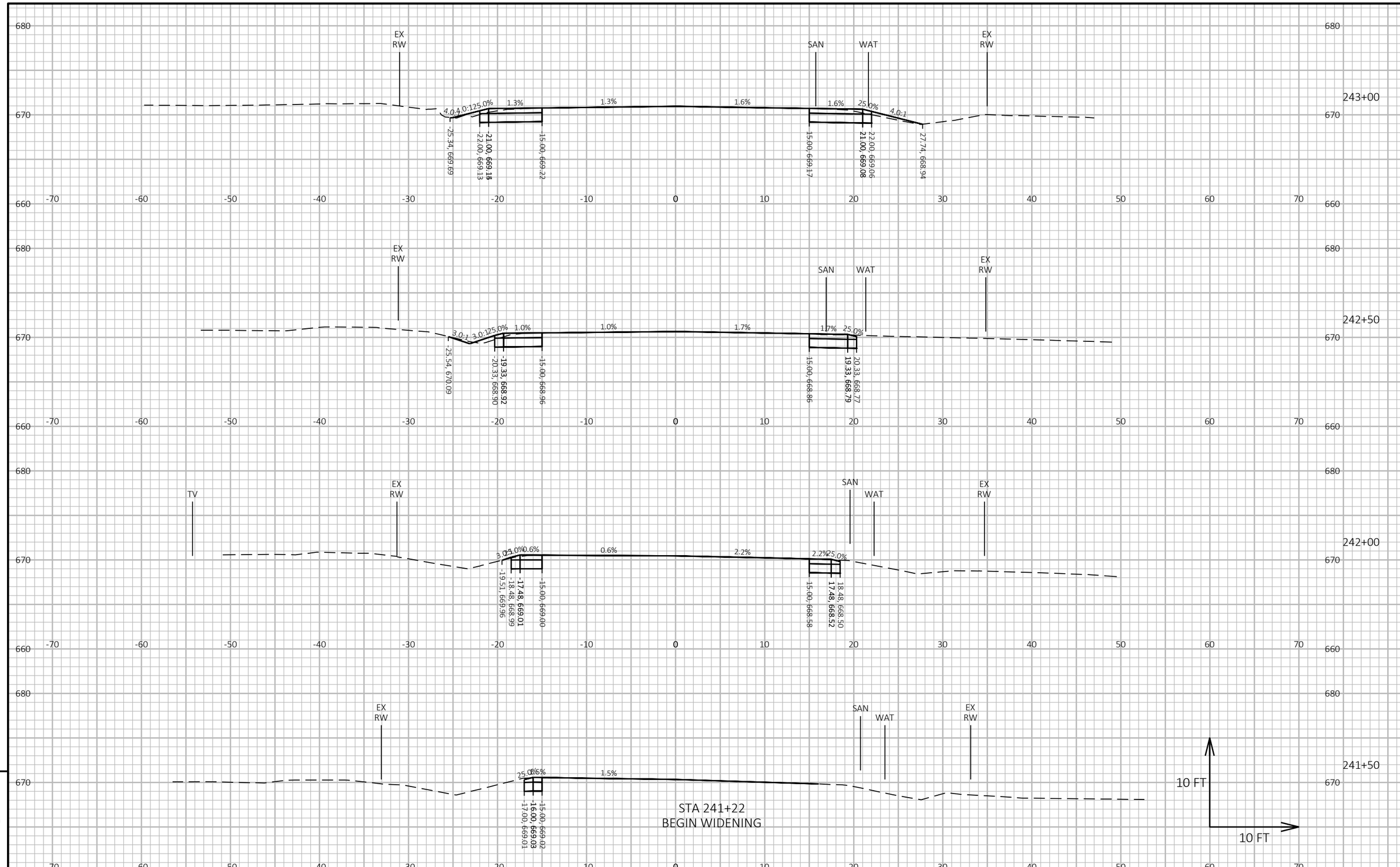


PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 32 (LAKE DR)	SHEET 426	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\DESIGN\CORRIDORS\CRDR_LAKEDR.DWG
LAYOUT NAME - XS-8

PLOT DATE : 10/14/2024 3:54 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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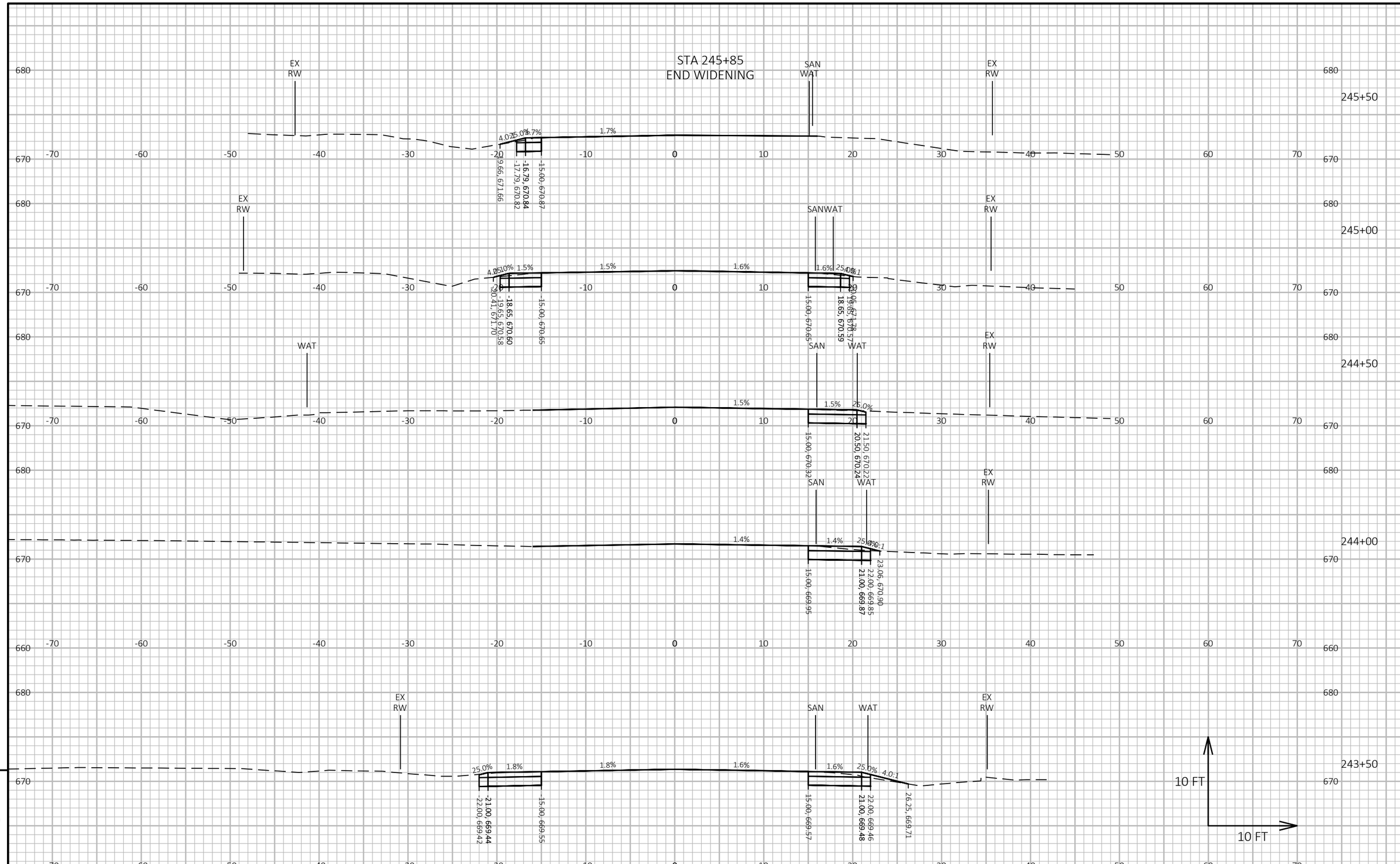
PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 32 (LAKE DR)	SHEET 427	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\DESIGN\CORRIDORS\CRDR_LAKEDR.DWG
LAYOUT NAME - XS-9

PLOT DATE : 10/14/2024 3:54 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

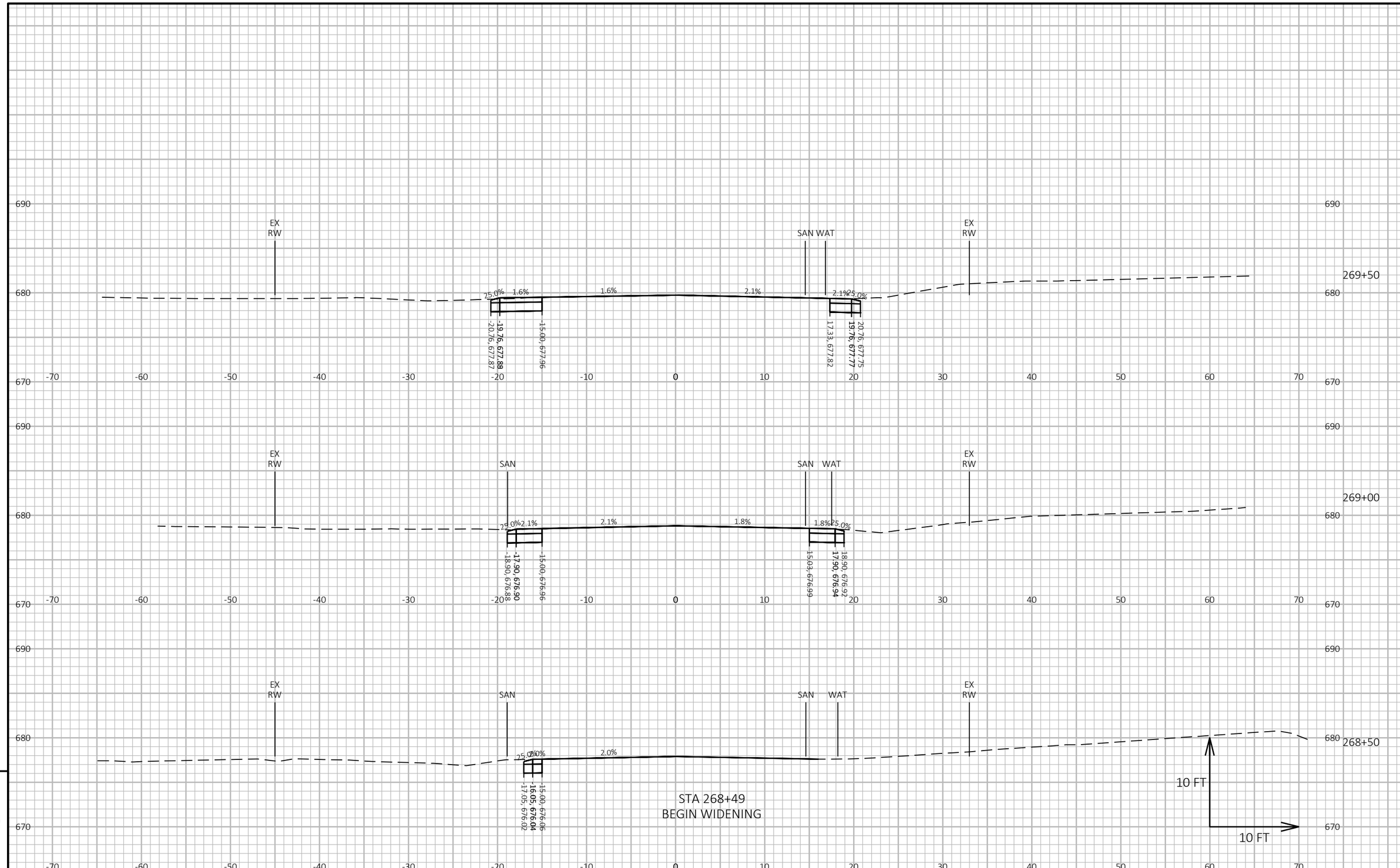


PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 32 (LAKE DR)	SHEET 428	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\DESIGN\CORRIDORS\CRDR_LAKEDR.DWG
LAYOUT NAME - XS-10

PLOT DATE : 10/14/2024 3:55 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

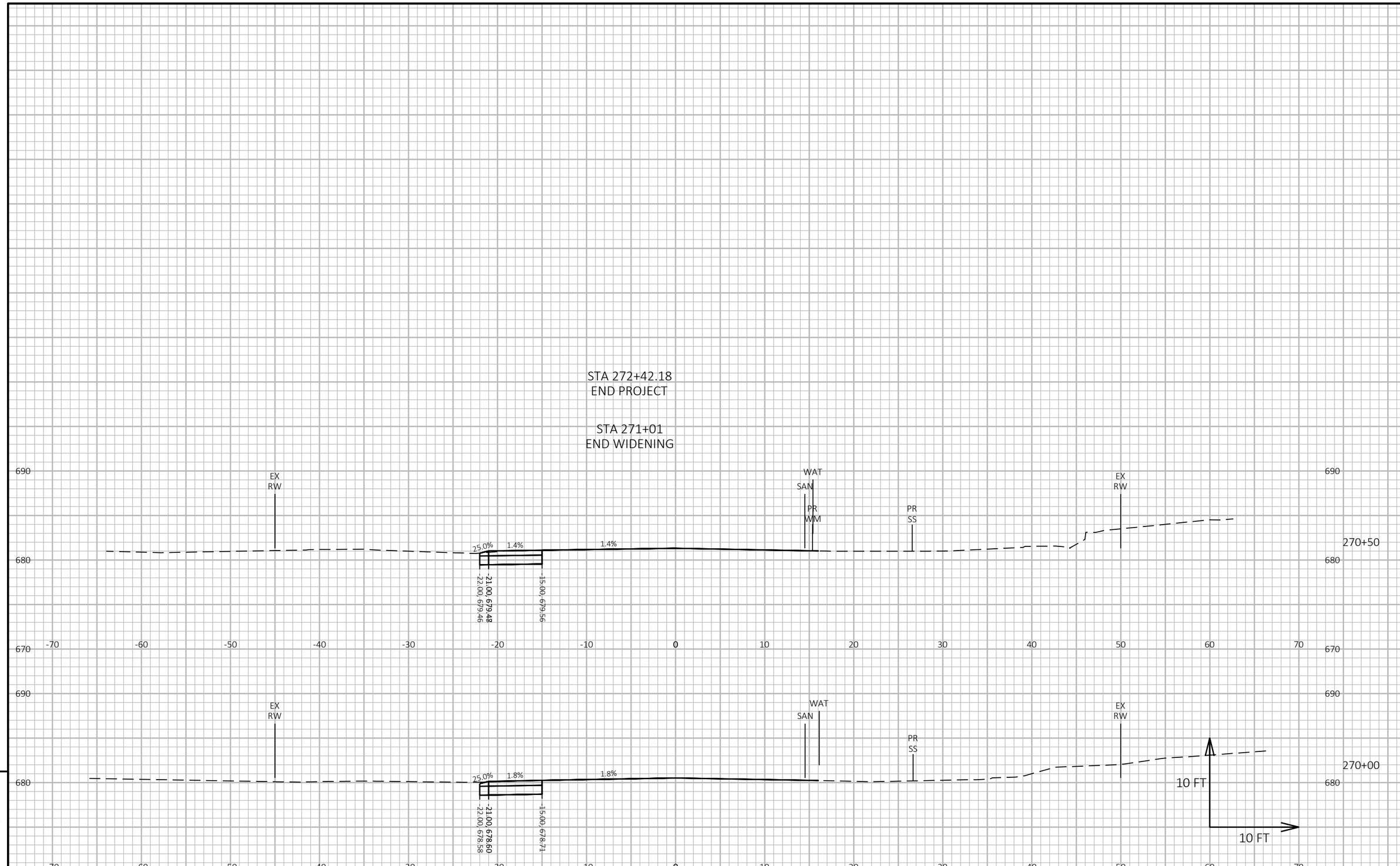
9

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 32 (LAKE DR)	SHEET 429	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\DESIGN\CORRIDORS\CRDR_LAKEDR.DWG
LAYOUT NAME - XS-11

PLOT DATE : 10/14/2024 3:55 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2225-00-73	HWY: STH 32	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 32 (LAKE DR)	SHEET 430	E

FILE NAME : S:\MILW_CO\FOX POINT\GOV\210250_LAKE DRIVE RESURFACE\22250003\DESIGN\CORRIDORS\CRDR_LAKEDR.DWG
LAYOUT NAME - XS-12

PLOT DATE : 10/14/2024 3:55 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

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