WKE

NOVEMBER 2026

PROJECT ID: 3830-01-70/71

WIRE: N/A

COUNTY: KENOSHA

ORDER OF SHEETS

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

TOTAL SHEETS = 302



18

DESIGN DESIGNATION

A.A.D.T.	(2026)	=	3434
A.A.D.T.	(2046)	=	3794
D.H.V.		=	
D.D.		=	
T.		=	4.3%
DESIGN SPEED		=	35 MPH
ESALS		=	240,000

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 (30/YEB)
- 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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

V PLEASANT PRAIRIE, 93RD ST

63RD AVE TO COOPER RD

LOCAL STREET

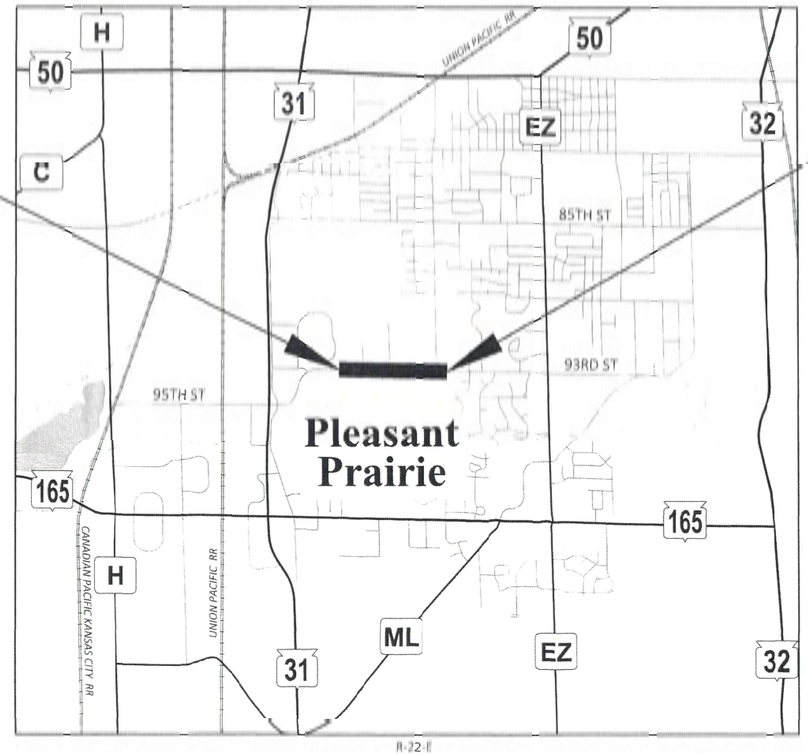
KENOSHA COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3830-01-70	WISC 2027032	1
3830-01-71	———	—

STATE PROJECT NUMBER
3830-01-70

SANITARY SEWER AND WATER

STATE PROJECT NUMBER
3830-01-71



BEGIN PROJECT
STA 49+87.00'EB'
Y = 116,912.995
X = 613,291.461

END PROJECT
STA 93+30.23'EB'
Y = 116,838.026
X = 617,195.483

LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.810 MI

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

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 18.

ACCEPTED FOR
VILLAGE OF PLEASANT PRAIRIE
Date 7/27/2026 (Signature and Title of Official)

ORIGINAL PLANS PREPARED BY
AYRES
WISCONSIN
KEVIN M. KUHLOW E-34276 MADISON WI
PROFESSIONAL ENGINEER
DATE: 7/21/2026 (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	AYRES ASSOCIATES INC
Designer	AYRES ASSOCIATES INC
Project Manager	GREG HAFEMAN, PE
Regional Examiner	
Regional Supervisor	AMY TAETSCH

APPROVED FOR THE DEPARTMENT
DATE: 07/27/2026 (Signature)

E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\010101-TI.DWG

PLOT DATE : 6/17/2026 11:17 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

GRADING IS NOT ALLOWED IN WETLAND AREAS. DO NOT STORE EQUIPMENT OR MATERIAL IN ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS OR WATERWAYS.

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
STORM WATER POND DETAILS
REMOVAL PLAN
PLAN DETAILS
PAVING GRADES
CURB RAMP DETAILS
EROSION CONTROL PLAN
STORM SEWER PLAN
WATER MAIN PLAN
SANITARY SEWER PLAN
PAVEMENT MARKING & SIGNING DETAILS
TRAFFIC CONTROL
DETOUR
ALIGNMENT DETAILS

STANDARD ABBREVIATIONS

A.A.D.T.	ANNUAL AVERAGE DAILY TRAFFIC
BM	BENCHMARK
CBTP	CONCRETE BARRIER TEMPORARY PRECAST
C/L	CENTERLINE
COMM	COMMUNICATION
CONST	CONSTRUCTION
CP	CONTROL POINT
CWT	HUNDRED WEIGHT
D.D.	DIRECTIONAL DISTRIBUTION
D.H.V.	DESIGN HOURLY VOLUME
EB	EASTBOUND
ELEC	ELECTRIC
ESALS	EQUIVALENT SINGLE AXLE LOADS
EX	EXISTING
GAL	GALLON
GPS	GLOBAL POSITIONING SYSTEM
HMA	HOT MIX ASPHALT
IN.	INCH
INL	INLET
ITS	INTELLIGENT TRAFFIC SYSTEM
LB	POUND
LF	LINEAR FOOT
LT	LEFT
LS	LUMP SUM
MAX	MAXIMUM
MGAL	MEGA GALLON (1000 GALLONS)
MI.	MILE
MIN	MINIMUM
MPH	MILES PER HOUR
MH	MANHOLE
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NB	NORTHBOUND
NO.	NUMBER
NOR	NORMAL
PC	POINT OF CURVATURE
PCC	POINT OF COMMON CURVATURE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PI	POINT OF INTERSECTION
PPOL	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
QTY.	QUANTITY
R/L	REFERENCE LINE
REQ'D	REQUIRED
RT	RIGHT
SB	SOUTHBOUND
SEG	SEGMENT
SSP	STORM SEWER PIPE
STA	STATION
SW	SOUTHWEST
SY	SQUARE YARD
T.	PERCENT TRUCKS
TYP	TYPICAL
VAR	VARIABLE
WB	WESTBOUND
Wt.	WEIGHT

UTILITY CONTACTS

AT&T WISCONSIN - COMMUNICATION LINE
MICHAEL VANBOVEN
411 7TH STREET
RACINE, WI 53140
262-676-3958
MV3658@ATT.COM

SPECTRUM - COMMUNICATION LINE
MICHAEL GAETHKE
5812 21st ST
RACINE, WI 53406
414-430-9354
MICHAEL.GAETHKE@CHARTER.COM

TDS TELECOM - COMMUNICATION LINE
JASON KENNY
525 JUNCTION ROAD
MADISON, WI 53717
262-514-2127
JASON.KENNY@TDSTELECOM.COM

VILLAGE OF PLEASANT PRAIRIE- SANITARY SEWER
KURT DAVIDSEN
8600 GREEN BAY ROAD
PLEASANT PRAIRIE, WI 53158
262-925-6728
KDAVIDSEN@PLEASANTPRAIRIEWI.GOV

VILLAGE OF PLEASANT PRAIRIE- WATER
KURT DAVIDSEN
8600 GREEN BAY ROAD
PLEASANT PRAIRIE, WI 53158
262-925-6728
KDAVIDSEN@PLEASANTPRAIRIEWI.GOV

WE ENERGIES - ELECTRIC
JASON CHAPIN
500 SOUTH 116TH STREET
WEST ALLIS, WI 53214
262-884-6706
JASON.CHAPIN@WE-ENERGIES.COM

WE ENERGIES - GAS/PETROLEUM
LUCAS KOSTERMAN
500 SOUTH 116TH STREET
WEST ALLIS, WI 53214
262-886-7033
LUCAS.KOSTERMAN@WE-ENERGIES.COM

ATC - ELECTRICITY
TONY MARCINIAK
PO BOX 47
WAUKESHA, WI 53187-0047
262-506-6814
TMARCINIAK@ATCLLC.COM

PROJECT CONTACTS

JESSE BENNETT
WISCONSIN DNR LIASON
DNR SOUTHEAST REGION HEADQUARTERS
1027 WEST PAUL AVENUE
MILWAUKEE, WI 53233-2641
608-445-2697
JESSIAH.BENNETT@WISCONSIN.GOV

ROB MERRY
SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
P: 262-953-4289
C: 920-912-1036
F: 262-547-1103
RMERRY@SEWRPC.ORG

ANDY TRAEGER
SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
P: 262-953-4296
C: 262-853-8463
F: 262-547-1103
ATRAEGER@SEWRPC.ORG

KEVIN KUHLOW, PE
AYRES ASSOCIATES - PROJECT MANAGER
5201 EAST TERRACE DRIVE, SUITE 200
MADISON, WI 53718
608-443-1210
KUHLOWK@AYRESASSOCIATES.COM

KURT DAVIDSON, PE
VILLAGE OF PLEASANT PRAIRIE - VILLAGE ENGINEER
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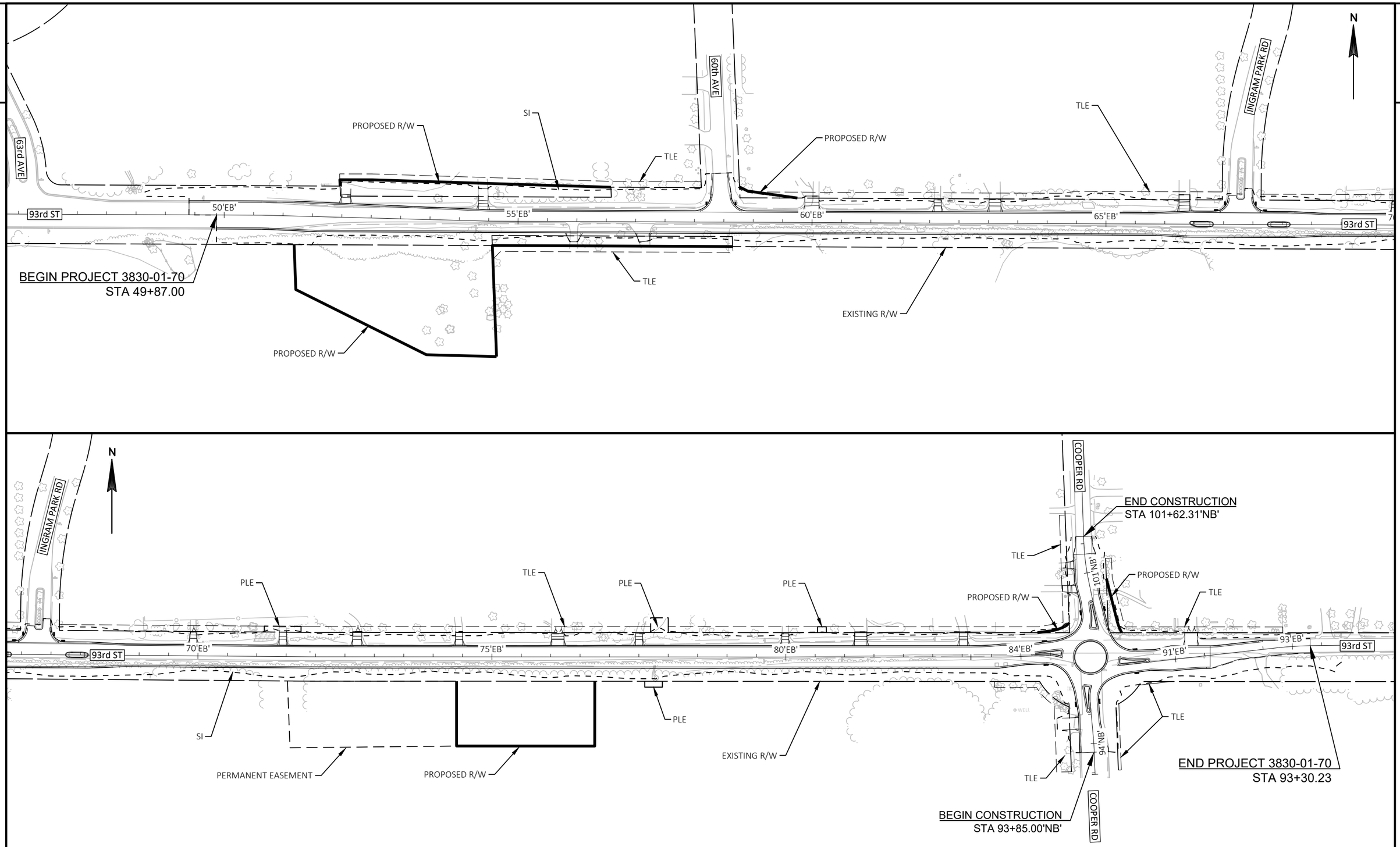
MATT FINEOUR, PE
VILLAGE OF PLEASANT PRAIRIE - EXECUTIVE DIRECTOR OF INFRASTRUCTURE MANAGEMENT
8600 GREEN BAY ROAD
PLEASANT PRAIRIE, WI 53158
262-925-6775
MFINEOUR@PLEASANTPRAIRIEWI.GOV

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

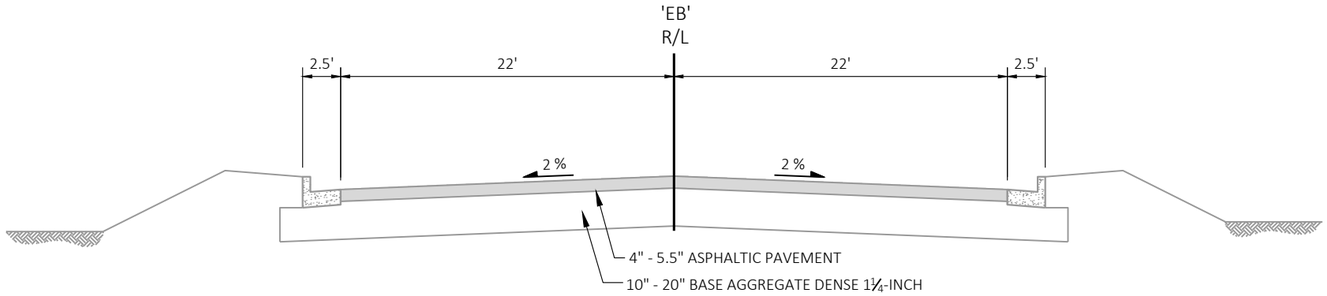
TOTAL PROJECT AREA = 10.773 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 9.142 ACRES

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



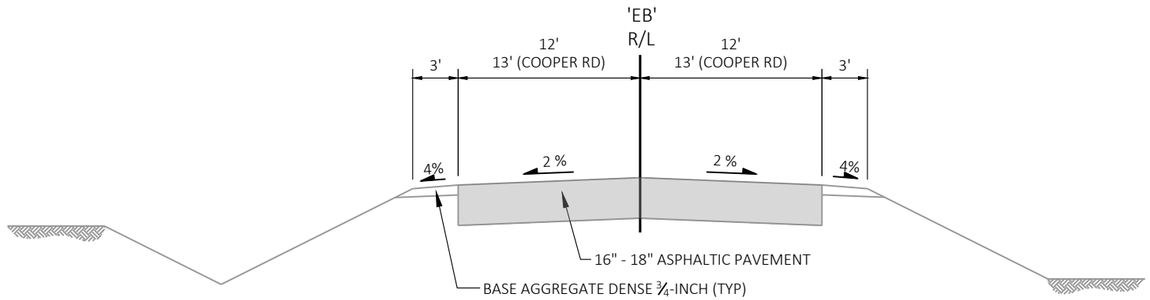
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PROJECT OVERVIEW	SHEET 3	E

2



EXISTING TYPICAL SECTION - 93RD ST

STA 49+87 'EB' - STA 52+00 'EB'



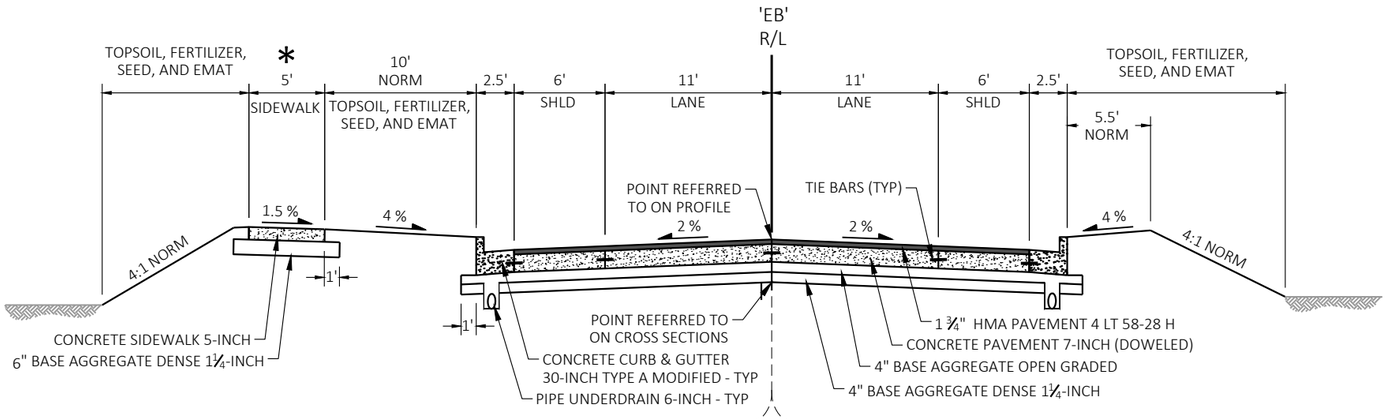
EXISTING TYPICAL SECTION - 93RD ST/COOPER RD

STA 52+00 'EB' - STA 93+30.27 'EB'

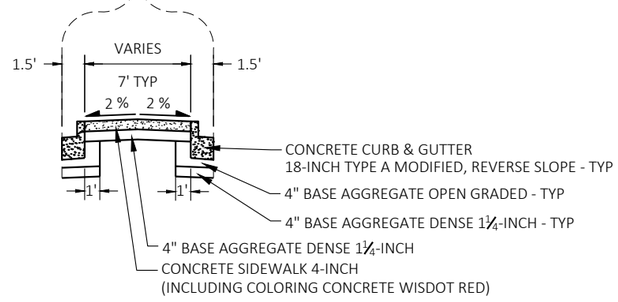
NOTE:
ASPHALT IS PLACED ON VARYING AMOUNTS OF SAND, GRAVEL, CRUSHED ASPHALT, AND CRUSHED STONE EXTENDING TO A DEPTH OF ABOUT 3.5 TO 6 FEET BELOW GRADE.

NOTE: 93RD STREET WAS CONSTRUCTED USING METRIC STANDARDS.

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	TYPICAL SECTIONS	SHEET 4	E



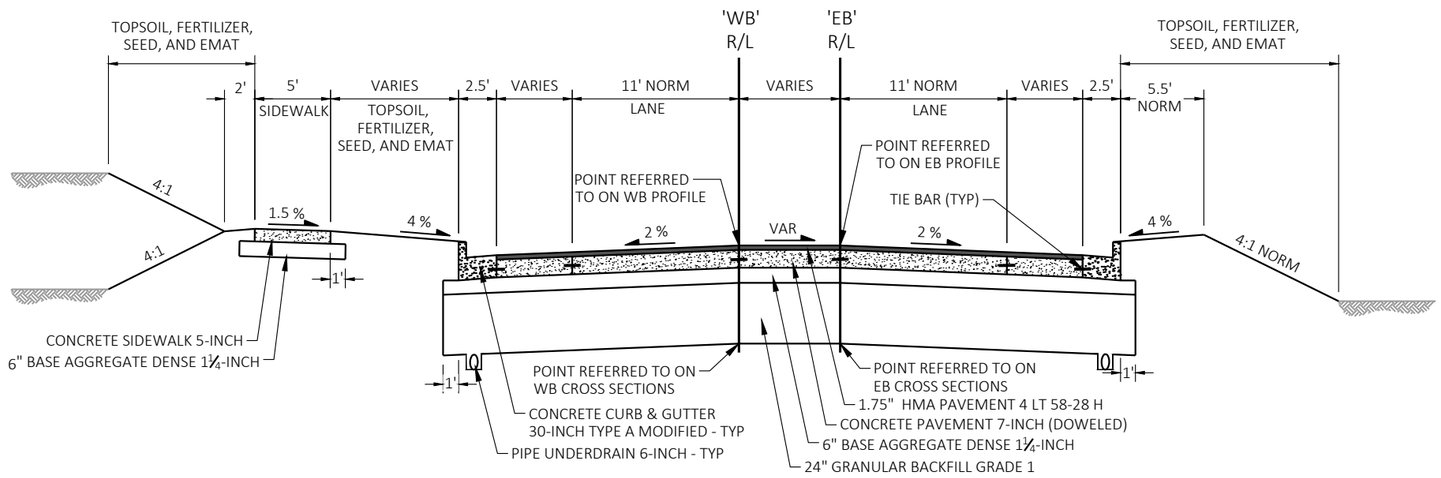
*
SIDEWALK
STA 63+11'EB' TO STA 69+92'EB', 6' WIDE



CURB AND GUTTER IN MEDIAN
STA 66+43 'EB' - STA 66+83 'EB'
STA 67+75 'EB' - STA 68+14 'EB'

FINISHED TYPICAL SECTION - 93RD ST

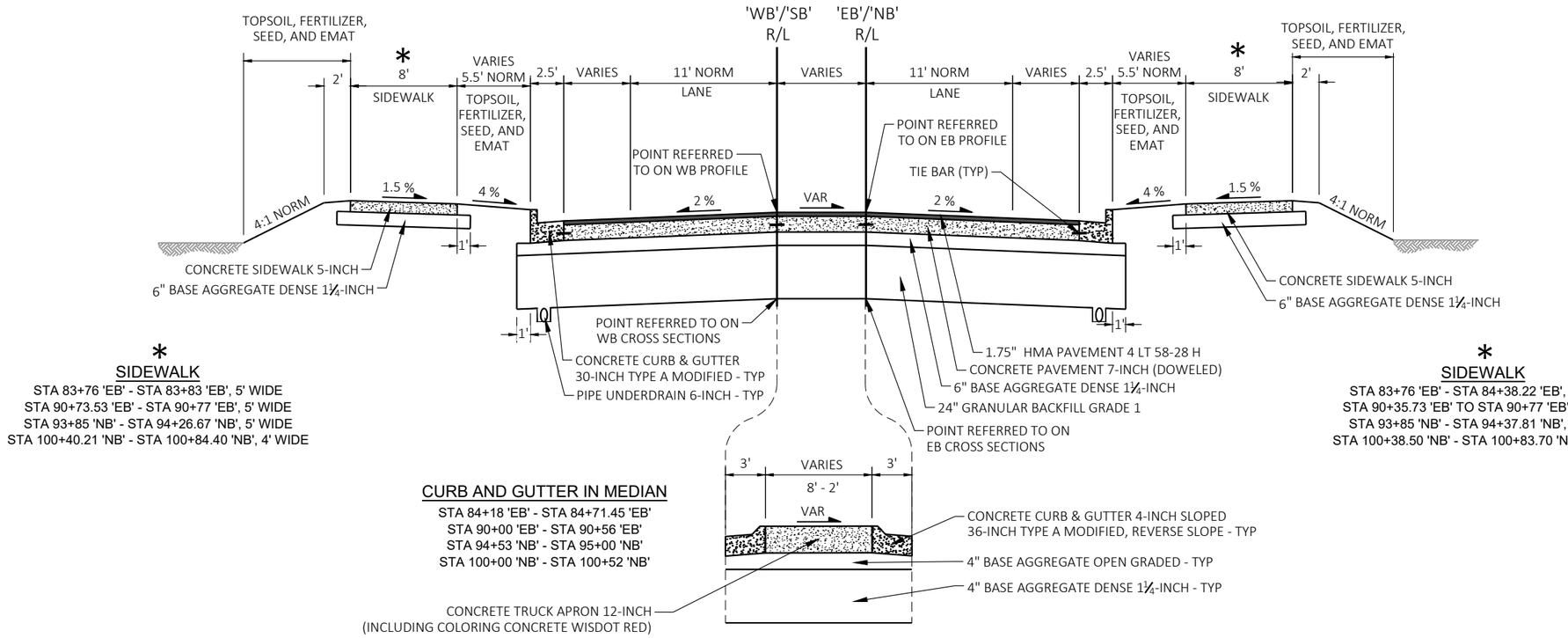
STA 49+87 'EB' - STA 52+00 'EB'
STA 57+00 'EB' - STA 82+00 'EB'



FINISHED TYPICAL SECTION - 93RD ST

STA 52+00 'EB' - STA 57+00 'EB'
STA 82+00.00 'EB' - STA 83+76 'EB'
STA 90+77 'EB' - STA 91+60.83 'EB'

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	TYPICAL SECTIONS	SHEET 5	E



*

SIDEWALK

STA 83+76 'EB' - STA 83+83 'EB', 5' WIDE
STA 90+73.53 'EB' - STA 90+77 'EB', 5' WIDE
STA 93+85 'NB' - STA 94+26.67 'NB', 5' WIDE
STA 100+40.21 'NB' - STA 100+84.40 'NB', 4' WIDE

CURB AND GUTTER IN MEDIAN

STA 84+18 'EB' - STA 84+71.45 'EB'
STA 90+00 'EB' - STA 90+56 'EB'
STA 94+53 'NB' - STA 95+00 'NB'
STA 100+00 'NB' - STA 100+52 'NB'

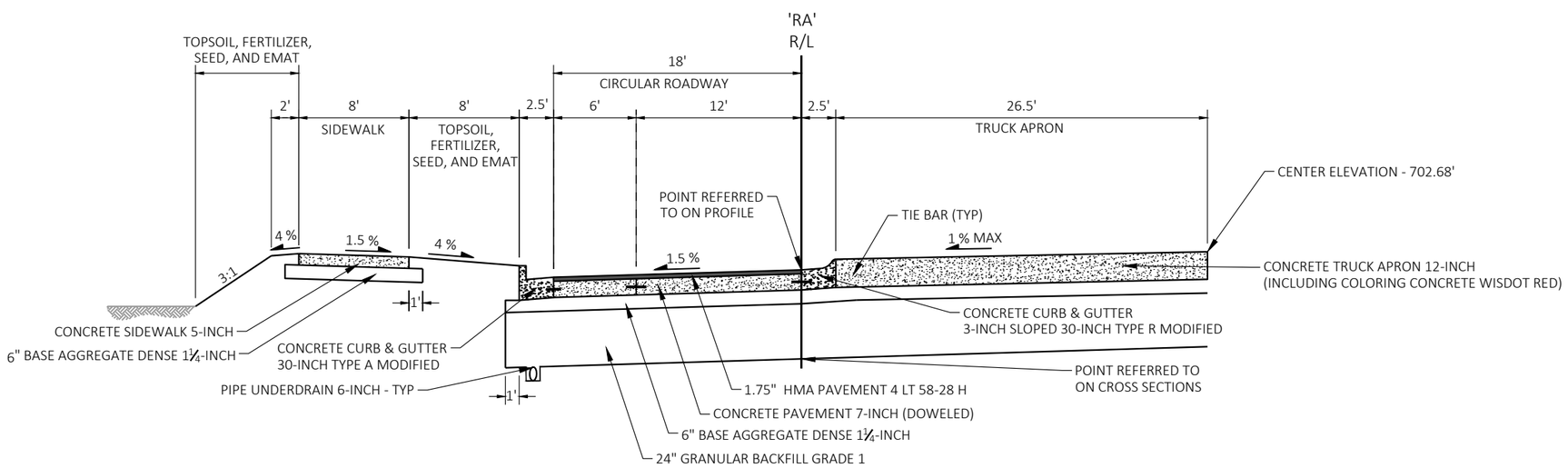
*

SIDEWALK

STA 83+76 'EB' - STA 84+38.22 'EB', 4' WIDE
STA 90+35.73 'EB' TO STA 90+77 'EB', 4' WIDE
STA 93+85 'NB' - STA 94+37.81 'NB', 5' WIDE
STA 100+38.50 'NB' - STA 100+83.70 'NB', 4' WIDE

FINISHED TYPICAL SECTION - 93RD ST/COOPER RD

STA 83+76 'EB' - STA 84+71.45 'EB'
STA 90+00 'EB' - STA 90+77 'EB'
STA 93+85 'NB' - STA 95+00 'NB'
STA 100+00 'NB' - STA 101+32.33 'NB'

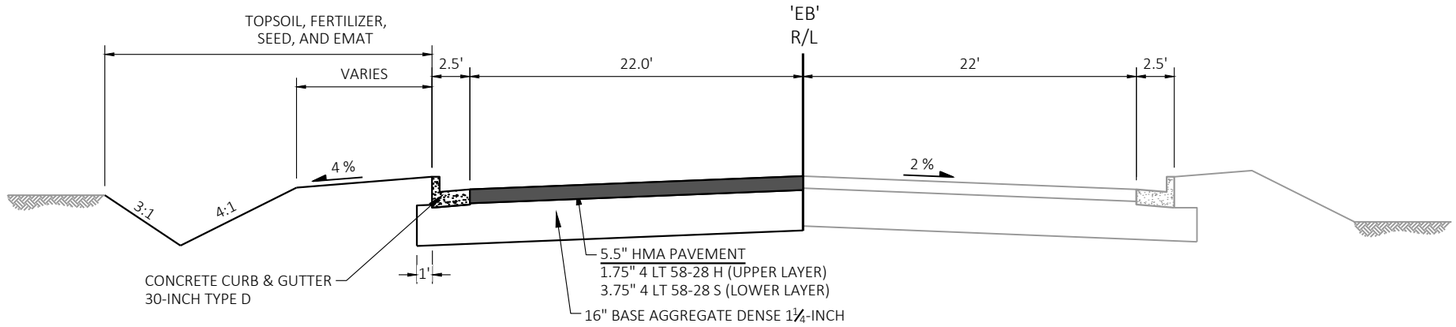


FINISHED TYPICAL HALF SECTION - ROUNDABOUT

STA 10+00 'RA' - STA 11+85.35 'RA'

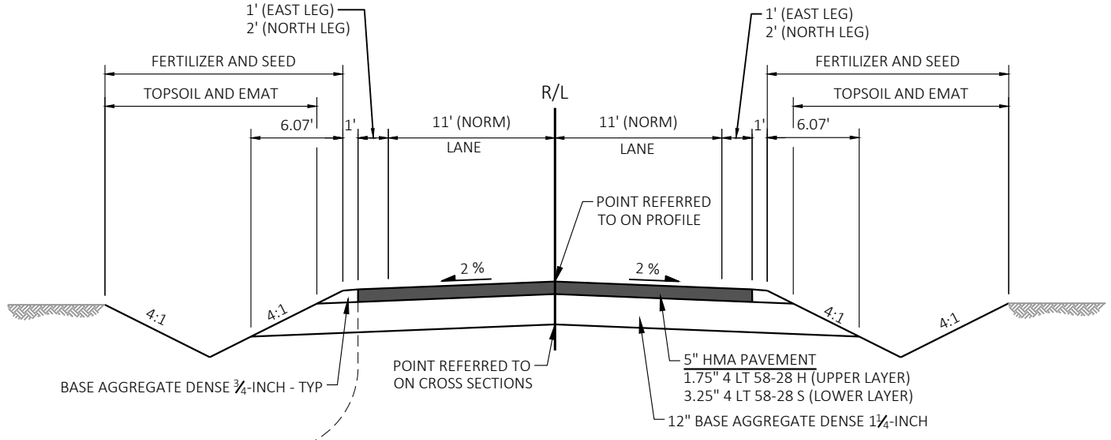
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	TYPICAL SECTIONS	SHEET 6	E

2



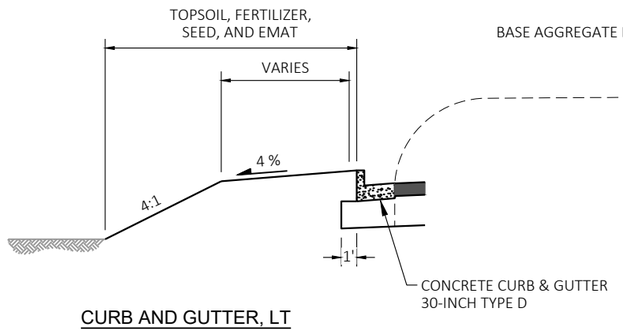
FINISHED TYPICAL SECTION - SIDE ROADS

STA 49+40 - STA 49+87



FINISHED TYPICAL SECTION - SIDE ROADS

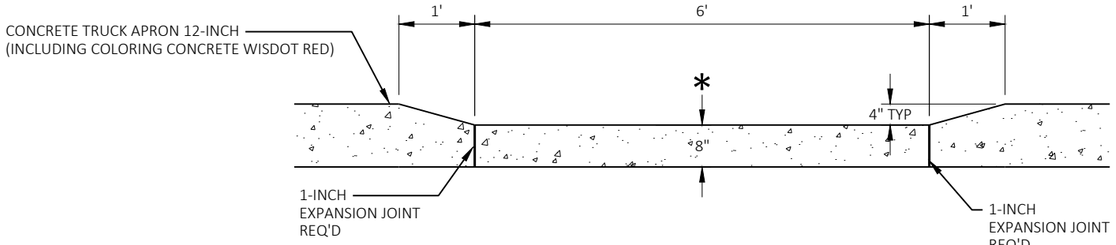
STA 5+17.00 - STA 5+83.32 (60TH AVENUE)
STA 10+20.00 - STA 10+51.69 (INGRAM PARK)
STA 101+32.33 'NB' - STA 101+62.31 'NB'
STA 91+60.83 'EB' - STA 93+31.90 'EB'



CURB AND GUTTER, LT

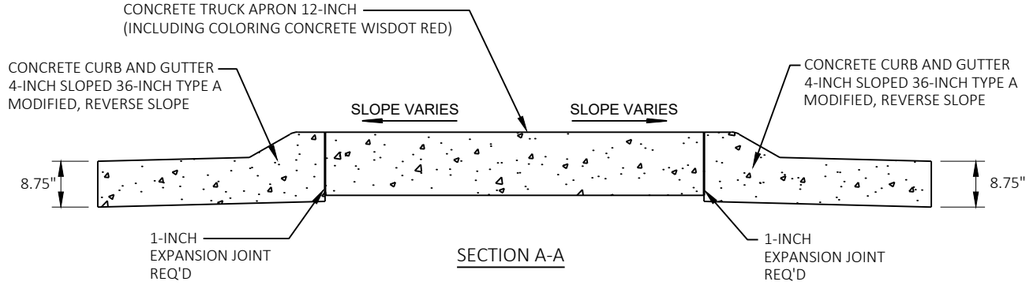
STA 91+60.83 'EB' - STA 92+50 'EB'

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	TYPICAL SECTIONS	SHEET 7	E

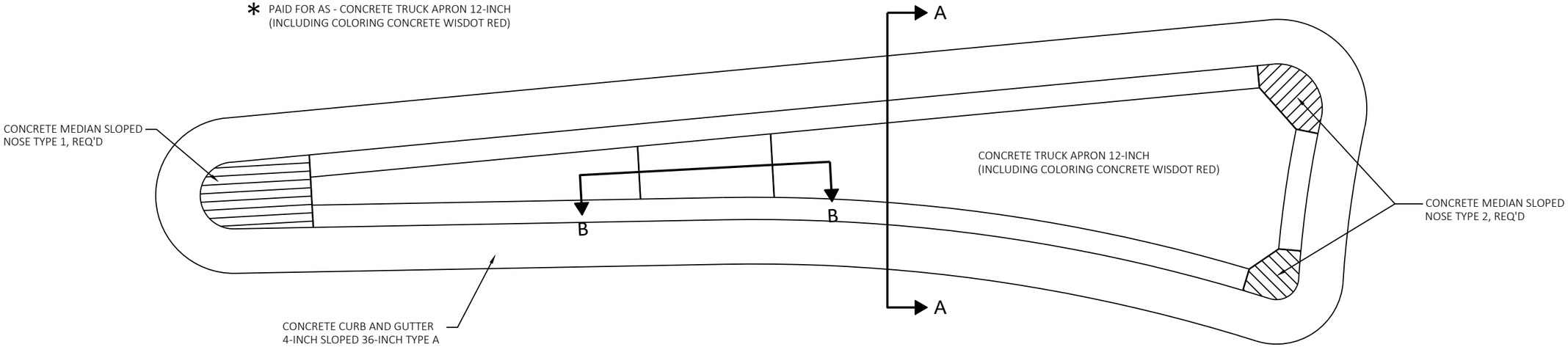


SECTION B-B

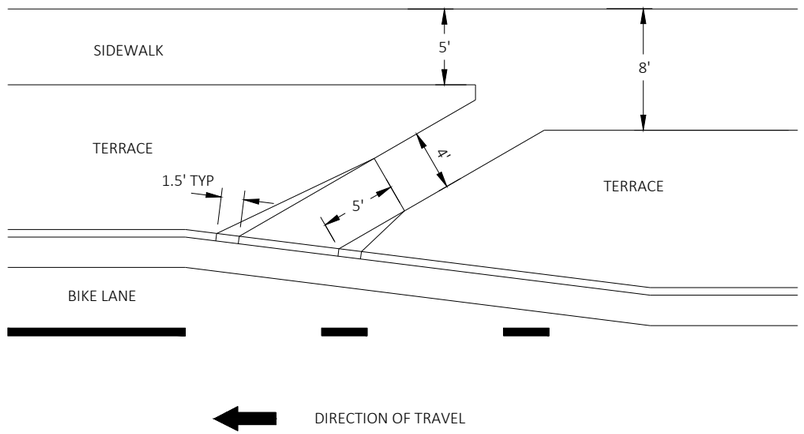
* PAID FOR AS - CONCRETE TRUCK APRON 12-INCH (INCLUDING COLORING CONCRETE WISDOT RED)



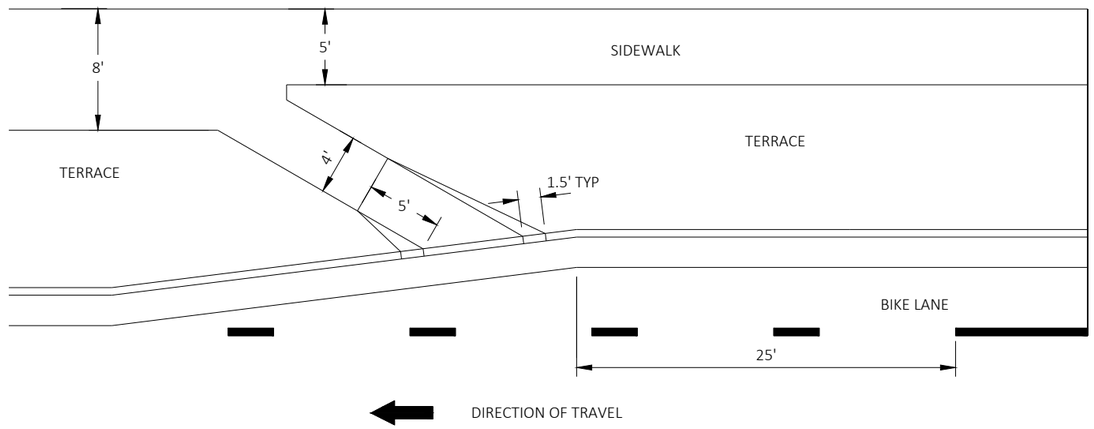
SECTION A-A



CONCRETE SPLITTER ISLAND DETAIL



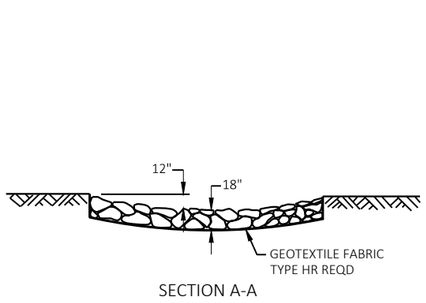
BIKE RAMP ENTRANCE



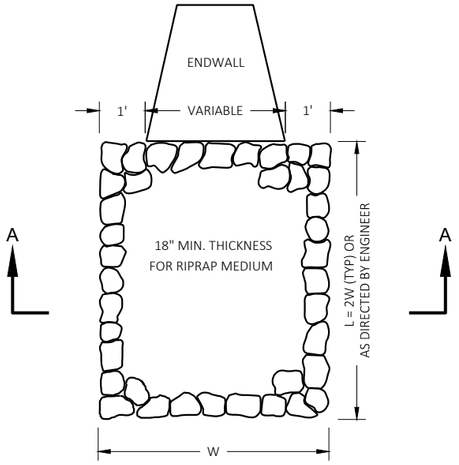
BIKE RAMP EXIT

BIKE RAMP DETAIL

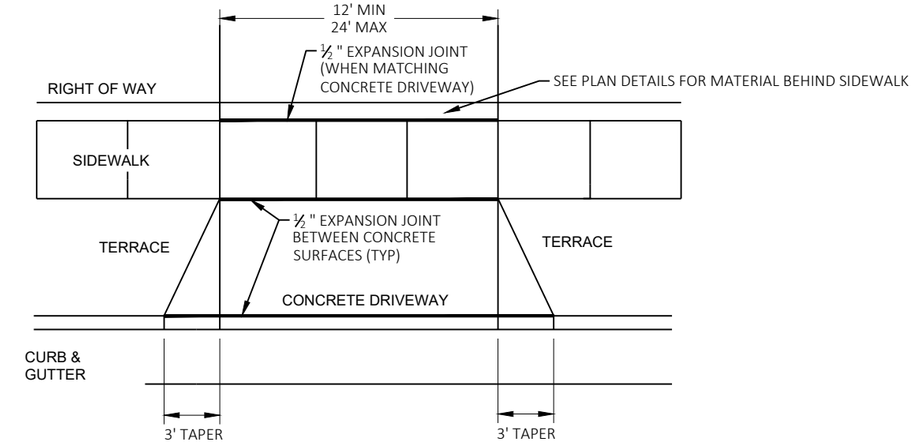
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CONSTRUCTION DETAILS	SHEET 8	E



SECTION A-A



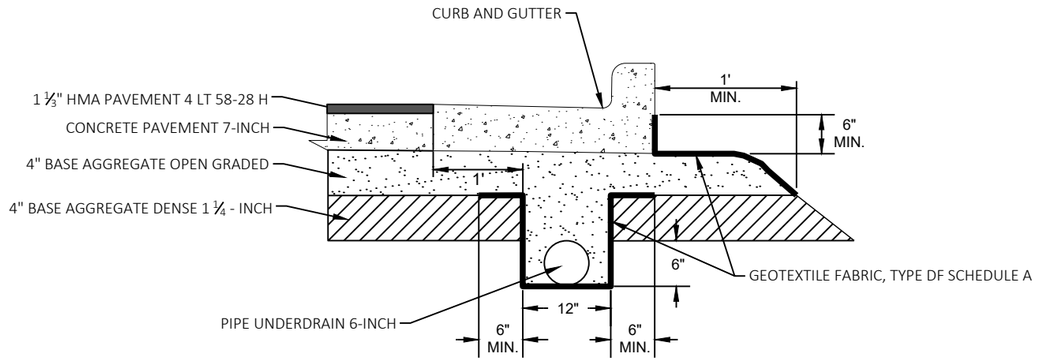
RIPRAP TREATMENT AT APRON ENDWALLS



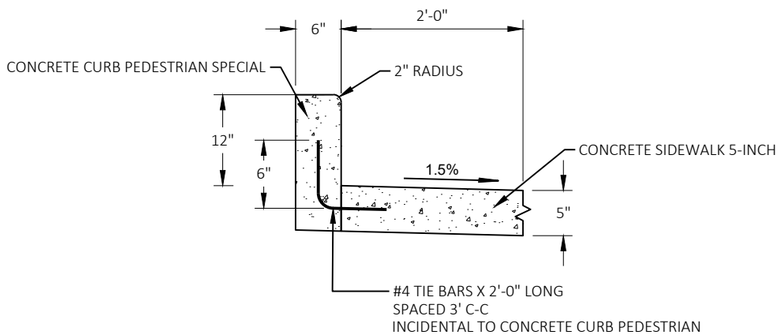
NOTE:

MINIMUM DRIVEWAY AND SIDEWALK THICKNESS WITHIN THE RIGHT OF WAY SHALL BE AS FOLLOWS:
- CONCRETE DRIVEWAY AND SIDEWALK AT DRIVEWAY CROSSING SHALL BE 6" CONCRETE OVER 6" BASE AGGREGATE DENSE 1 ¼ -INCH. SIDEWALK BEYOND THE DRIVEWAY LIMITS SHALL BE 5" CONCRETE OVER 4" BASE AGGREGATE DENSE 1 ¼ -INCH.
- ASPHALT DRIVEWAYS SHALL BE 3" ASPHALTIC SURFACE FOR DRIVEWAYS AND FIELD ENTRANCES OVER 8" BASE AGGREGATE DENSE 1 ¼ -INCH.
- GRAVEL DRIVEWAYS SHALL BE 11" OF BASE AGGREGATE DENSE 1 ¼ =INCH.

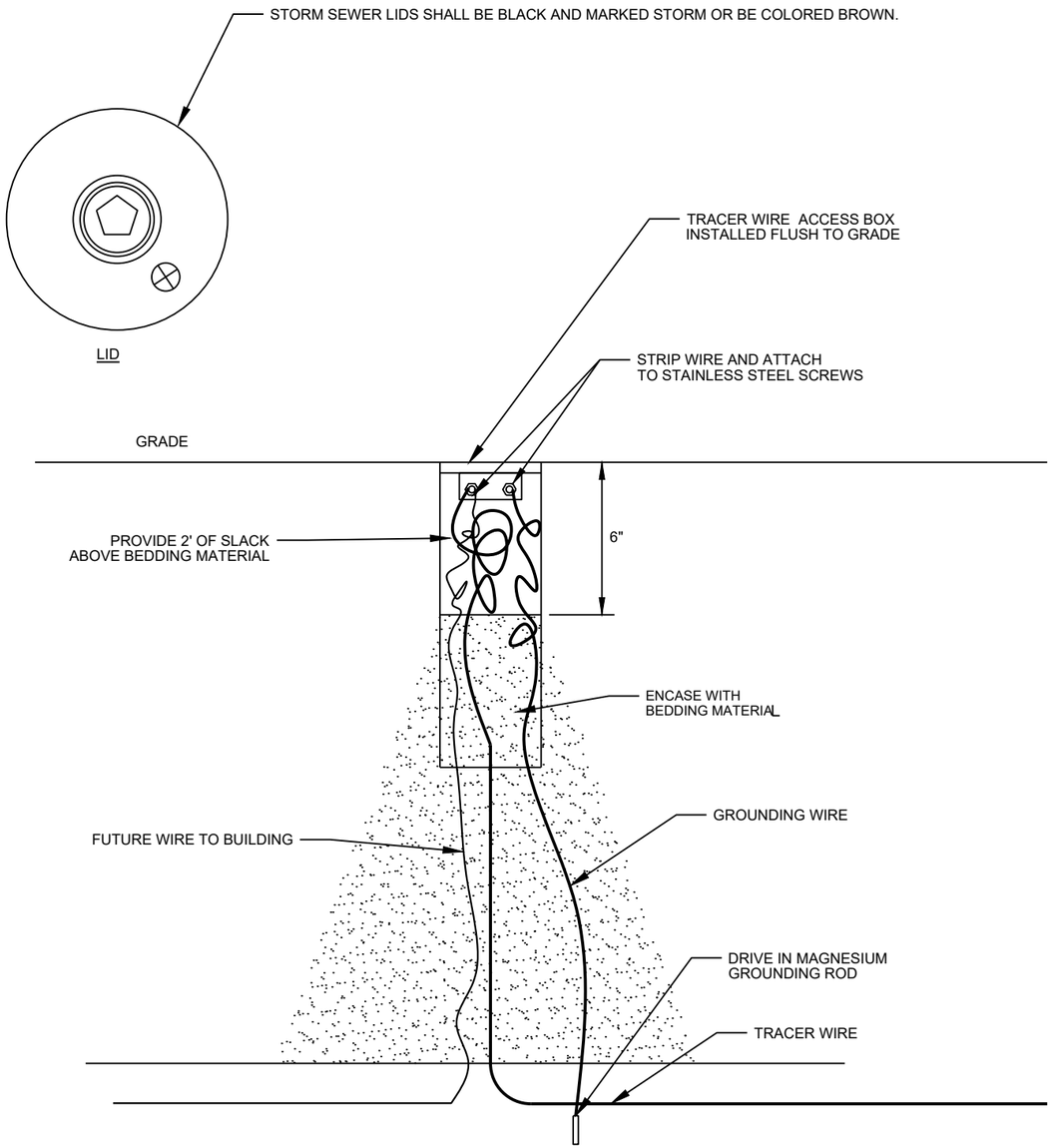
URBAN DRIVEWAY DETAIL



PIPE UNDERDRAIN TRENCH DETAIL IN BASE AGGREGATE OPEN GRADED



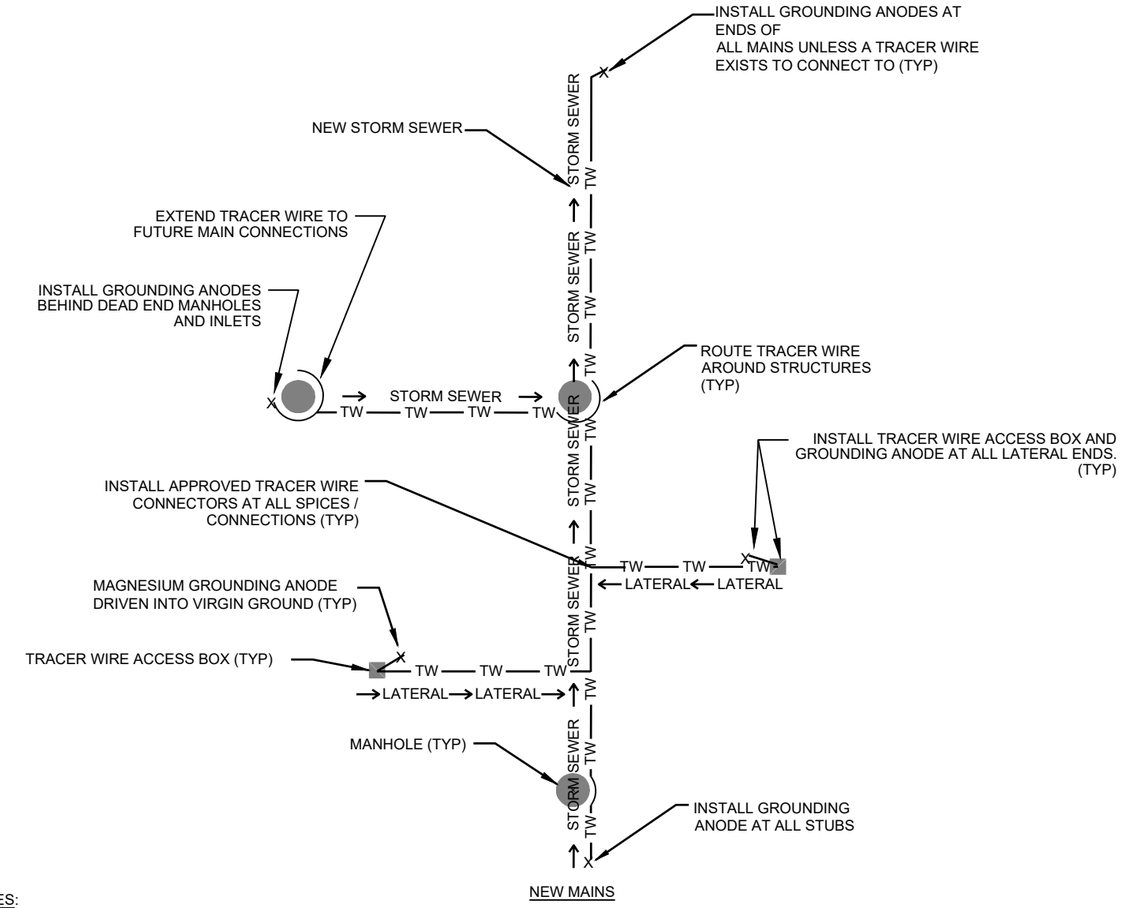
CONCRETE CURB PEDESTRIAN SPECIAL



TRACER WIRE ACCESS BOX DETAIL

NOTES

1. REFER TO SPECIAL PROVISIONS.
2. INSTALL TRACER WIRE ACCESS BOXES 1' BEHIND THE CURB & GUTTER AT THE INLET LOCATIONS LISTED BELOW.
3. INSTALL TRACER WIRE ACCESS BOX AT STRUCTURE 10, 101, 131, 171, 201, 221, 310, 451, 454, AND AT THE STORM SEWER LATERAL LOCATED AT STRUCTURE 412

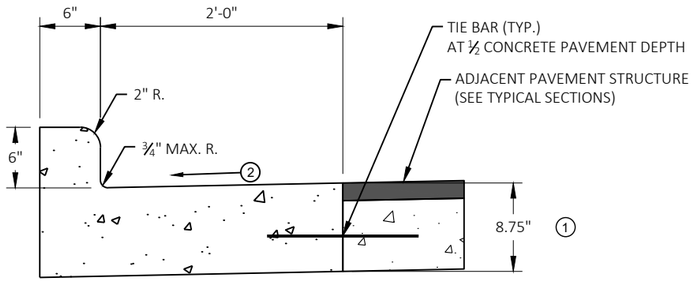


NEW MAINS

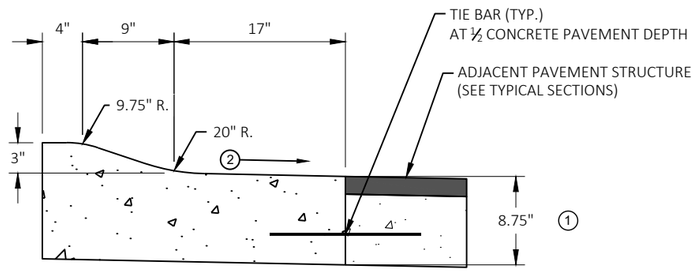
NOTES:

1. REFER TO SPECIAL PROVISIONS.
1. TRACER WIRE SHALL BE TAPED TO MAIN AND LATERALS. WIRE IS SHOWN OFF MAIN AND LATERALS FOR CLARITY.
2. RUN GROUND WIRE DOWN RISERS IF APPLICABLE.

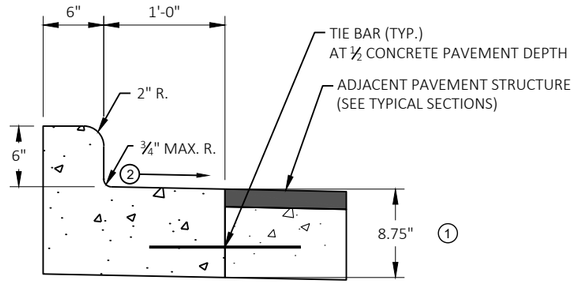
TRACER WIRE INSTALLATION ON STORM SEWER DETAIL



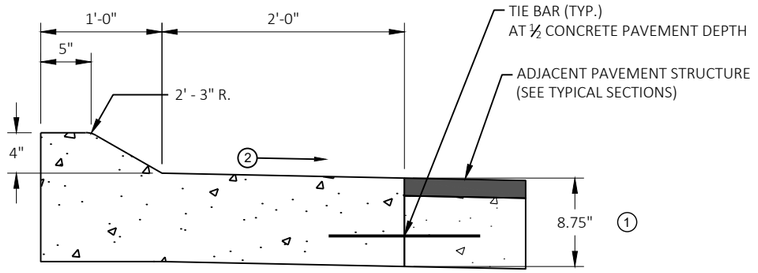
CONCRETE CURB AND GUTTER 30-INCH TYPE A MODIFIED



CONCRETE CURB AND GUTTER 3-INCH SLOPED 30-INCH TYPE R MODIFIED



CONCRETE CURB AND GUTTER 18-INCH TYPE A MODIFIED



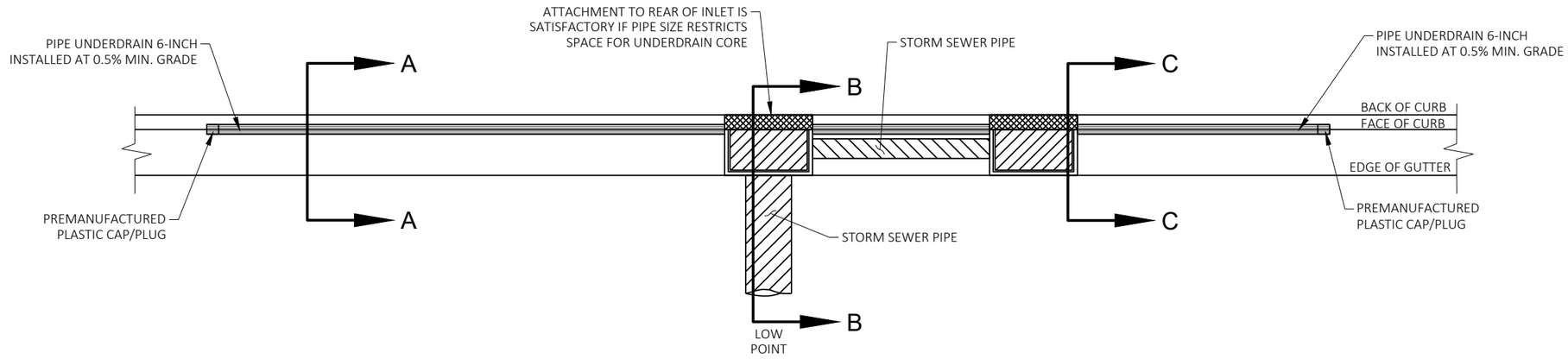
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A MODIFIED

GENERAL NOTES

SEE SDD CONCRETE CURB AND GUTTER FOR ADDITIONAL INFORMATION.

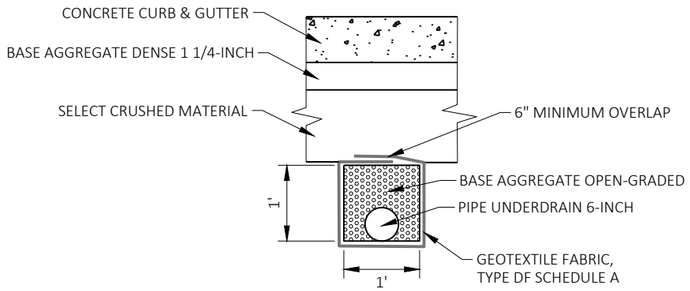
(1) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8.75" GUTTER THICKNESS IS MAINTAINED.

(2) USE 4% GUTTER CROSS SLOPE FOR ACCEPT CURB FOR REVERSE SLOPE CURB MATCH THE SLOPE OF THE PAVEMENT.



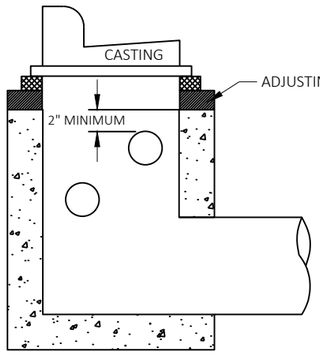
TOP VIEW

SPLIT DETAIL



SECTION A-A

NOTES:
(1) BOTTOM OF PIPE SHALL BE PLACED AT THE BOTTOM OF BASE AGGREGATE OPEN-GRADED.



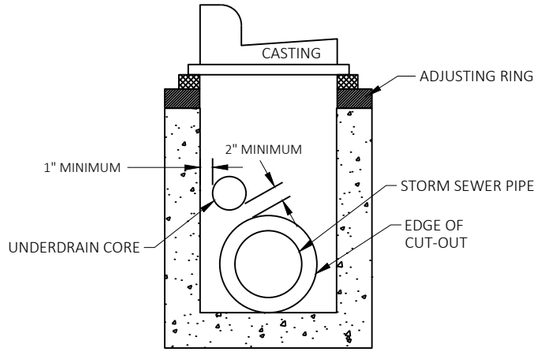
SECTION B-B

NOTES:
(1) TOP OF CORE HOLES SHALL BE A MINIMUM OF 2" BELOW THE TOP OF THE INLET STRUCTURES (BOTTOM OF RINGS).

(2) DRAIN TILES SHALL NOT BE ALLOWED IN THE RING OF THE STRUCTURE OF INLETS OR SEWER ACCESS STRUCTURES.

CROSS-SECTION VIEW
TYPICAL INLET CONFIGURATION
WITH UNDERDRAIN CORED INTO
WALL WITH CROSSPIPE ONLY

FOUND AT LOW POINTS WITHOUT
FLANKING INLETS



SECTION C-C

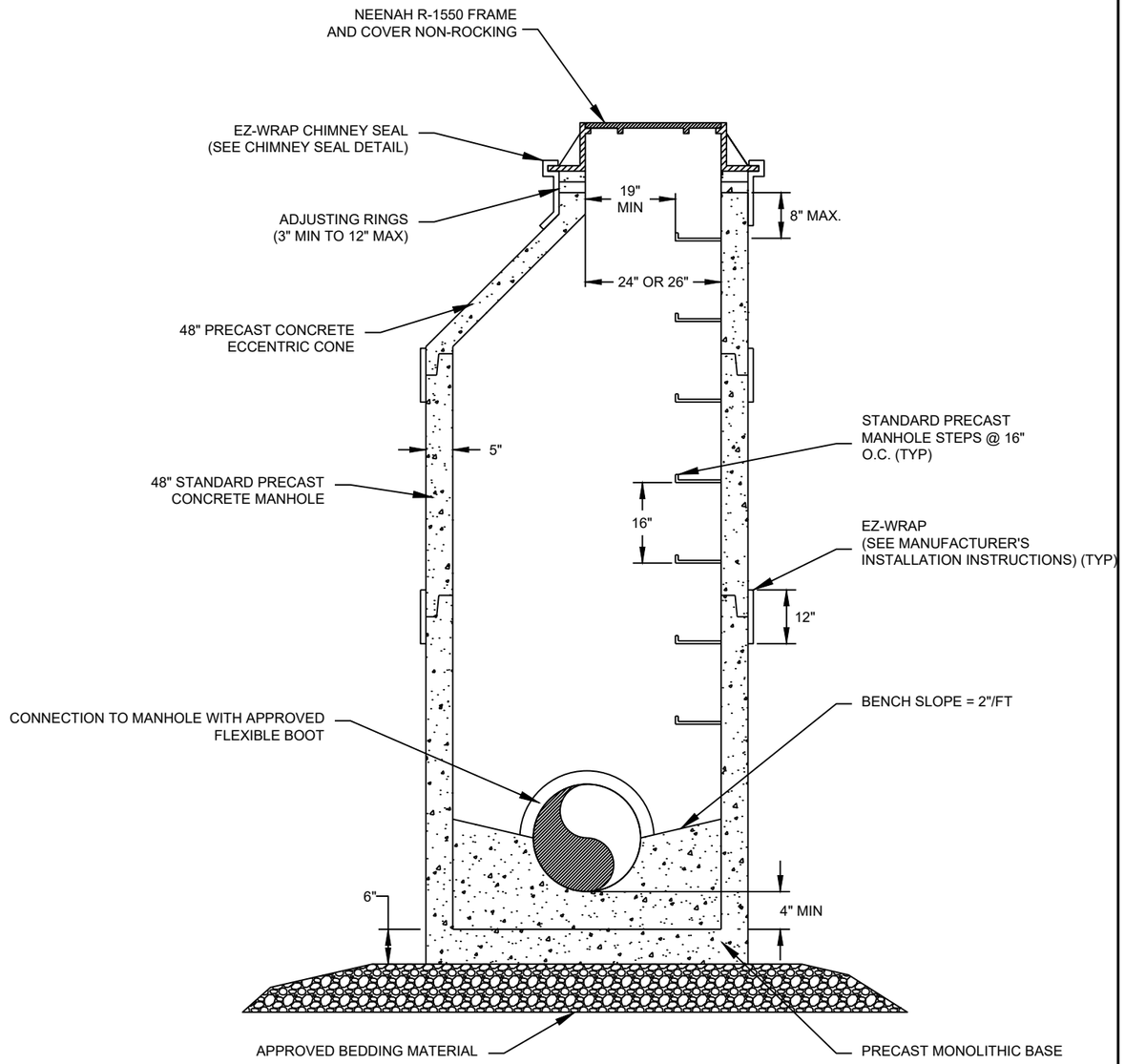
NOTES:
(1) CORE HOLES SHALL PROVIDE FOR A MINIMUM OF 2" OF CONCRETE BETWEEN THE CUTOUT FOR A STORM SEWER PIPE AND THE EDGE OF THE CORE HOLE.

(2) CORE HOLES MAY HAVE 0" CLEARANCE FROM THE INSIDE WALLS OF A STRUCTURE.

CROSS-SECTION VIEW
TYPICAL INLET IN SUMP CONDITION
WITH UNDERDRAIN CORED INTO WALL
WITH PIPE FOUND AT FLANKING INLETS
NEAR LOWPOINTS

PIPE UNDERDRAIN 6-INCH

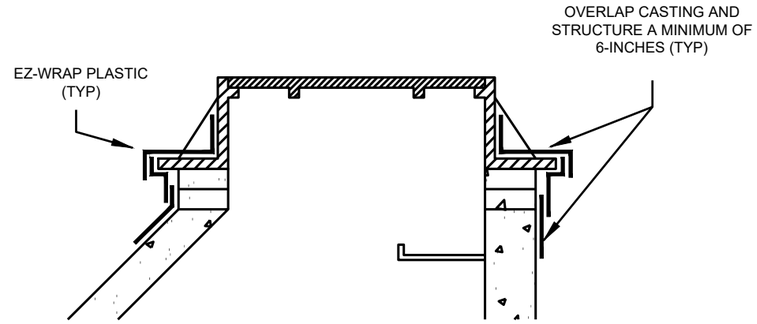
(SEE STORM SEWER PLAN FOR LOCATIONS)



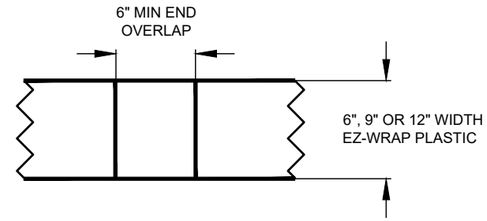
NOTES:

1. REFER TO SPECIAL PROVISIONS.

SANITARY SEWER MANHOLE DETAIL



CONE SECTION MANHOLE INSTALLATION

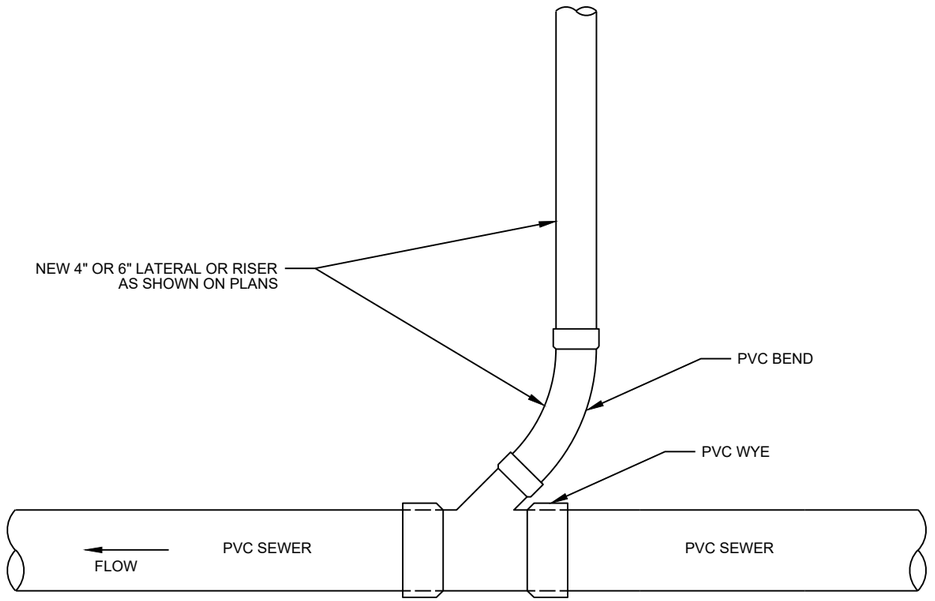


EZ-WRAP END OVERLAP DETAIL

INSTALLATION INSTRUCTIONS:

1. CLEAN AND DRY THE EXTERIOR SURFACES OF THE CASTING, ADJUSTING RINGS, AND STRUCTURE TO BE WRAPPED. SURFACES AND MATERIALS SHALL BE ABOVE 32 DEGREES.
2. APPLY MANUFACTURER RECOMMENDED AEROSOL ADHESIVE OR EZ-PRIMER #4 TO ALL SURFACES TO BE WRAPPED. EZ-PRIMER SHALL BE APPLIED USING A CLEAN PAINT BRUSH OR ROLLER.
3. WAIT FOR SOLVENTS TO DISPENSE FROM THE TREATED SURFACE. EZ-PRIMER TREATED SURFACE SHALL BE DRY AND APPEAR SMOOTH AND CLEAN. AEROSOL ADHESIVE SHALL BE TACKY. DEPENDING ON THE TEMPERATURE THIS MAY TAKE 10-30 MINUTES FOR EZ-PRIMER OR 1-3 MINUTES FOR AEROSOL ADHESIVE.
4. CUT EZ-WRAP TO LENGTH. CUT ENDS SHALL OVERLAP A MINIMUM OF 6".
5. BEGINNING AT THE BOTTOM OF THE STRUCTURE CAREFULLY INSTALL THE EZ-WRAP TO THE DRY, TREATED SURFACES, REMOVING THE RELEASE PAPER AS YOU APPLY THE EZ-WRAP. DO NOT STRETCH THE EZ-WRAP. PRESS THE EZ-WRAP DOWN FIRMLY AND EVENLY AS YOU COVER THE SURFACES.
6. INSTALL EZ-PRIMER OR AEROSOL ADHESIVE OVER TOP 2-INCHES OF EZ-WRAP AND CUT END TO BE OVERLAID. ALLOW SURFACE TO DRY AS STATED IN STEP 3.
7. INSTALL NEXT SECTION OF EZ-WRAP. OVERLAP THE EZ-WRAP VERTICALLY A MINIMUM OF 2-INCHES. DO NOT STRETCH THE EZ-WRAP. PRESS THE EZ-WRAP DOWN FIRMLY AND EVENLY AS YOU COVER THE SURFACES.
8. REPEAT STEPS 6 AND 7 UNTIL THE ENTIRE CHIMNEY SECTION IS WRAPPED.

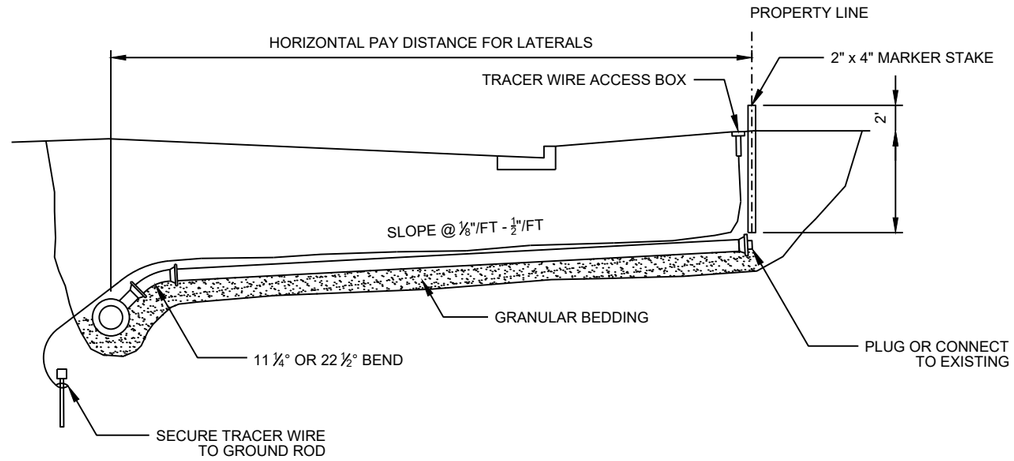
CHIMNEY SEAL DETAIL



NOTES:

1. REFER TO SPECIAL PROVISIONS.
2. AT SEWER MAIN, CONNECT LATERAL WYE AT 45 DEGREE ANGLE

STANDARD WYE INSTALLATION DETAIL



NOTES:

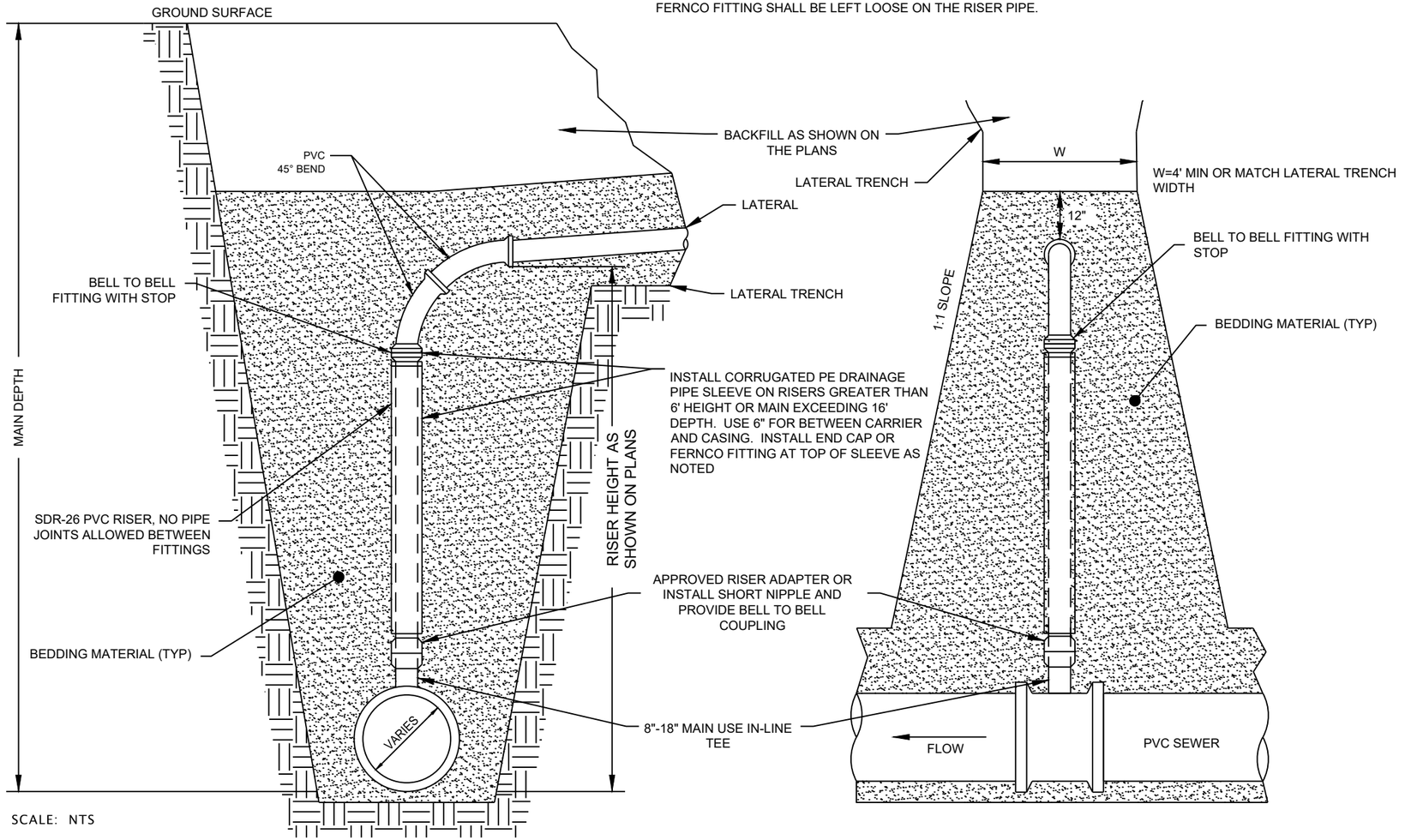
1. INSTALL LATERALS AT SLOPE AND LOCATION SHOWN ON PLANS.

SANITARY LATERAL INSTALLATION DETAIL

2

NOTES:

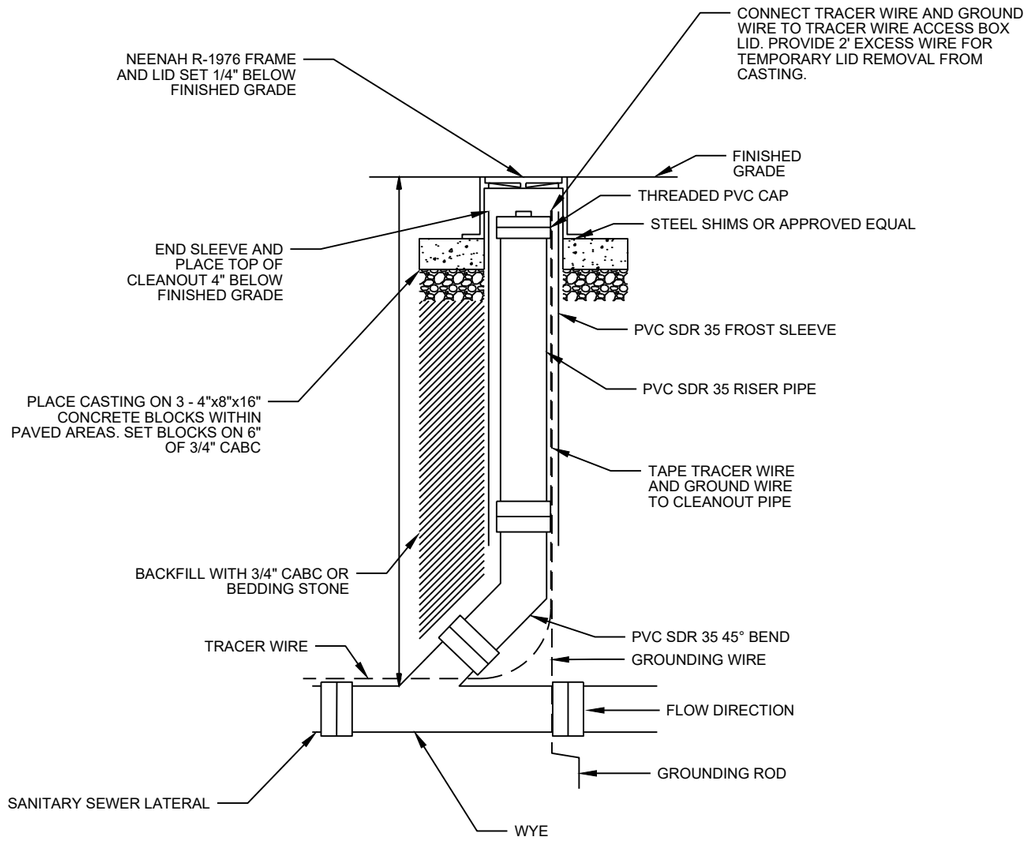
1. REFER TO SPECIAL PROVISIONS
2. A CAP OR FERNCO FITTING SHALL BE INSTALLED AT THE TOP OF THE SLEEVE TO ALLOW MOVEMENT OF THE SLEEVE INDEPENDENT OF THE RISER PIPE WHILE PREVENTING BACKFILL FROM ENTERING THE SLEEVE. FERNCO FITTING SHALL BE LEFT LOOSE ON THE RISER PIPE.

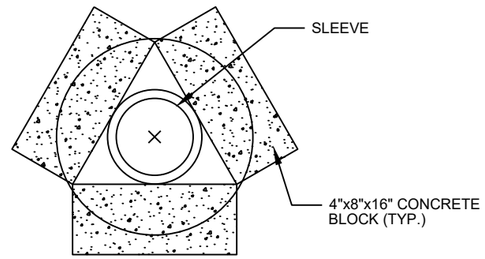


SANITARY SEWER RISER DETAIL

PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	CONSTRUCTION DETAILS	SHEET 15	E

2





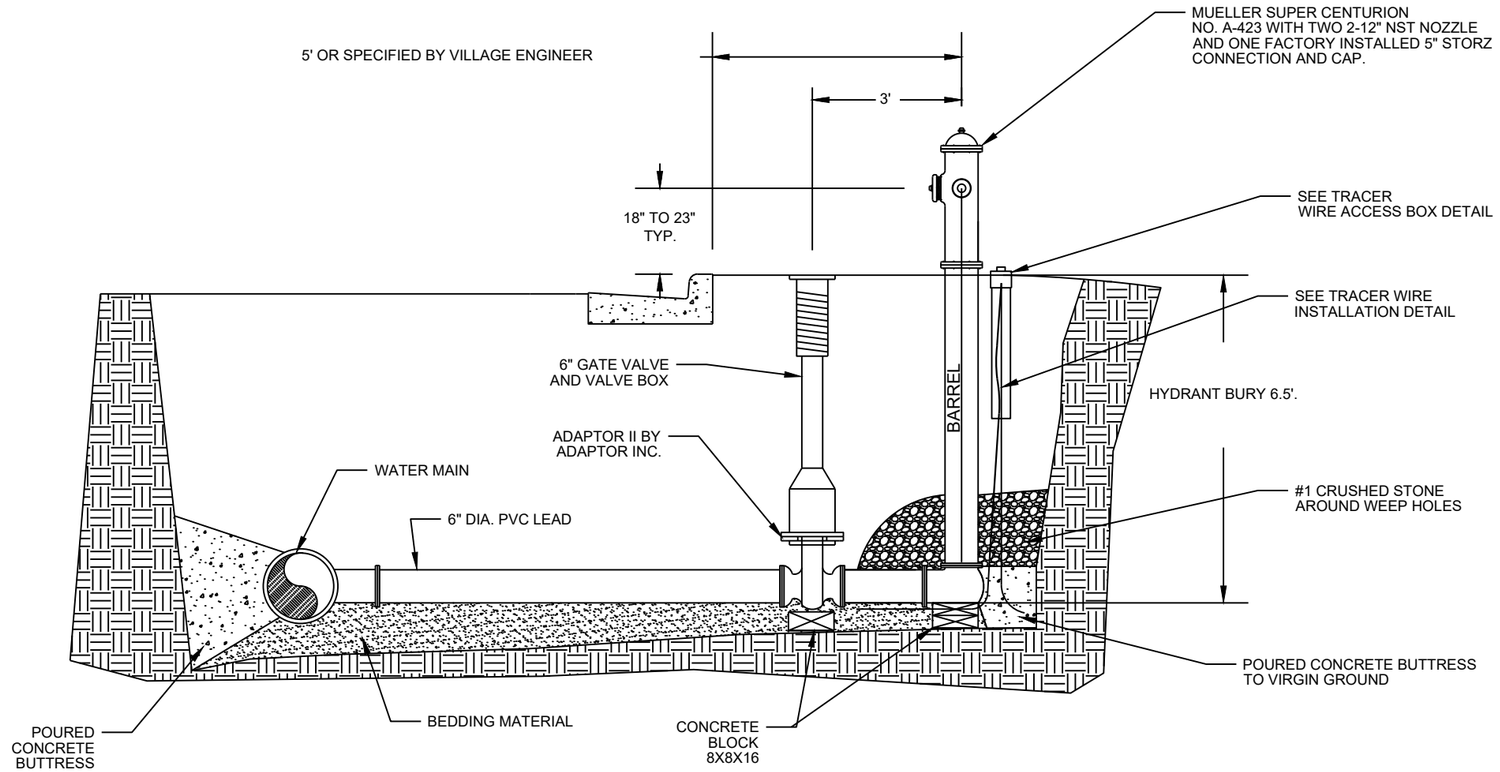
TOP VIEW

NOTES:

1. BOTTOM OF FROST SLEEVE SHALL TERMINATE 12" ABOVE TOP OF DRAIN PIPE OR 6" BELOW FROST DEPTH.
2. SANITARY SEWER CLEANOUT PIPE SHALL MATCH LATERAL SIZE AND MATERIAL
3. SLEEVE DIAMETER SHALL BE A MINIMUM OF 2" LARGER DIAMETER THAN CLEANOUT PIPE

SANITARY CLEANOUT DETAIL

2

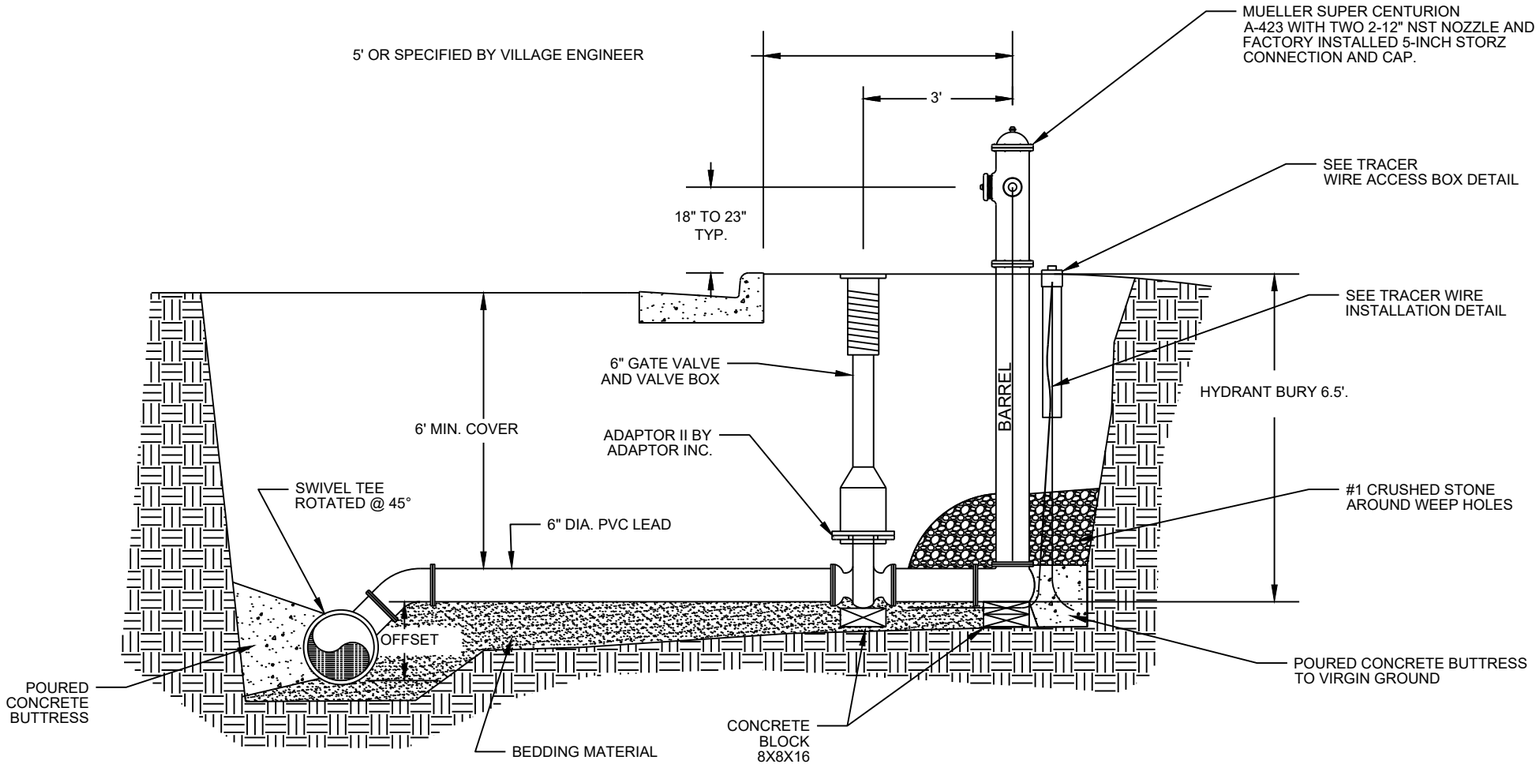


NOTES:

1. MECHANICAL JOINTS FROM TEE TO VALVE AND FROM VALVE TO HYDRANT SHALL BE RESTRAINED WITH MEGALUGS AND STAINLESS STEEL BOLTS.
2. ALL FASTENERS SHALL BE STAINLESS STEEL.
3. HYDRANT EXTENSIONS ARE NOT PERMITTED
4. REFER TO HYDRANT OFFSET DETAIL FOR HYDRANTS WHERE BURY DEPTH CAN NOT BE ACHIEVED.
5. ALL HYDRANTS, EXCLUDING STORZ CONNECTION, SHALL BE FACTORY PAINTED WITH EPOXY AS IDENTIFIED BELOW:
   A. PUBLIC (VILLAGE) HYDRANTS SHALL BE MUELLER RED - SHERWIN WILLIAMS POLANE F63RL15
6. REFER TO SPECIAL PROVISIONS.

HYDRANT DETAIL

2

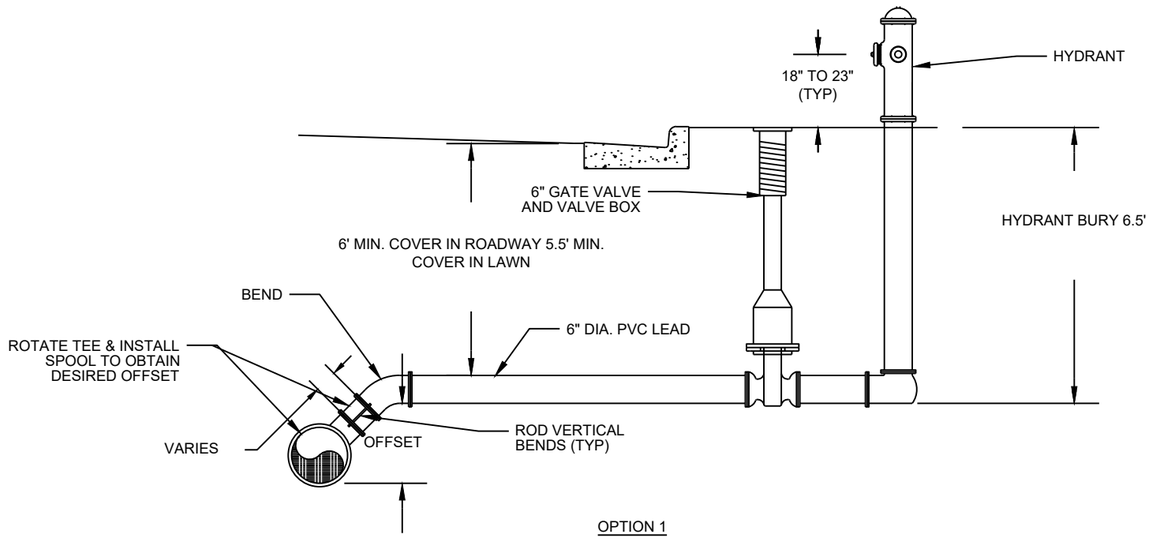


MAIN DIA (IN.)	OFFSET (FT.)
16	1.6±
18	1.7±
20	1.9±
24	2.2±

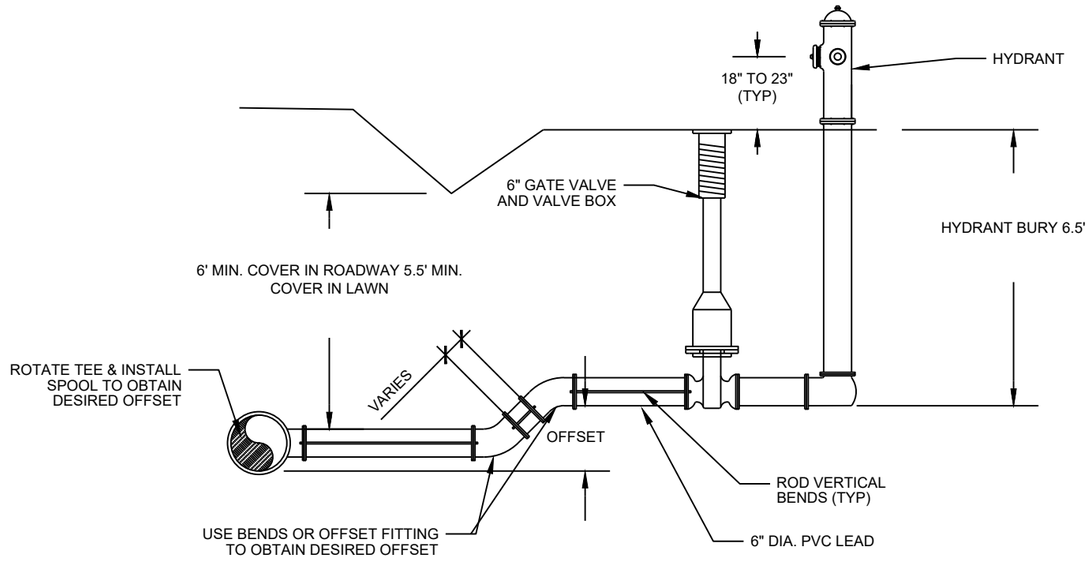
NOTES:

1. MECHANICAL JOINTS FROM TEE TO VALVE AND FROM VALVE TO HYDRANT SHALL BE RESTRAINED WITH MEGALUGS AND STAINLESS STEEL BOLTS.
2. ALL FASTENERS SHALL BE STAINLESS STEEL.
3. HYDRANT EXTENSIONS ARE NOT PERMITTED.
4. ALL HYDRANTS, EXCLUDING STORZ CONNECTION, SHALL BE FACTOR PAINTED WITH EPOXY AS IDENTIFIED BELOW:
   A. PUBLIC (VILLAGE) HYDRANTS SHALL BE MUELLER RED - SHERWIN WILLIAMS POLANE F63RL15.
   B. PRIVATE HYDRANTS ON VILLAGE SYSTEM PRESSURE SHALL BE CAUTION BLUE - SHERWIN WILLIAMS POLANE F63RXL9667.
   C. PRIVATE PRESSURIZED HYDRANTS ON FIRE LOOPS SHALL BE MUELLER YELLOW - SHERWIN WILLIAMS POLANE F63YL14.
5. REFER TO SPECIAL PROVISIONS.

AIR RELEASE HYDRANT DETAIL



OPTION 1



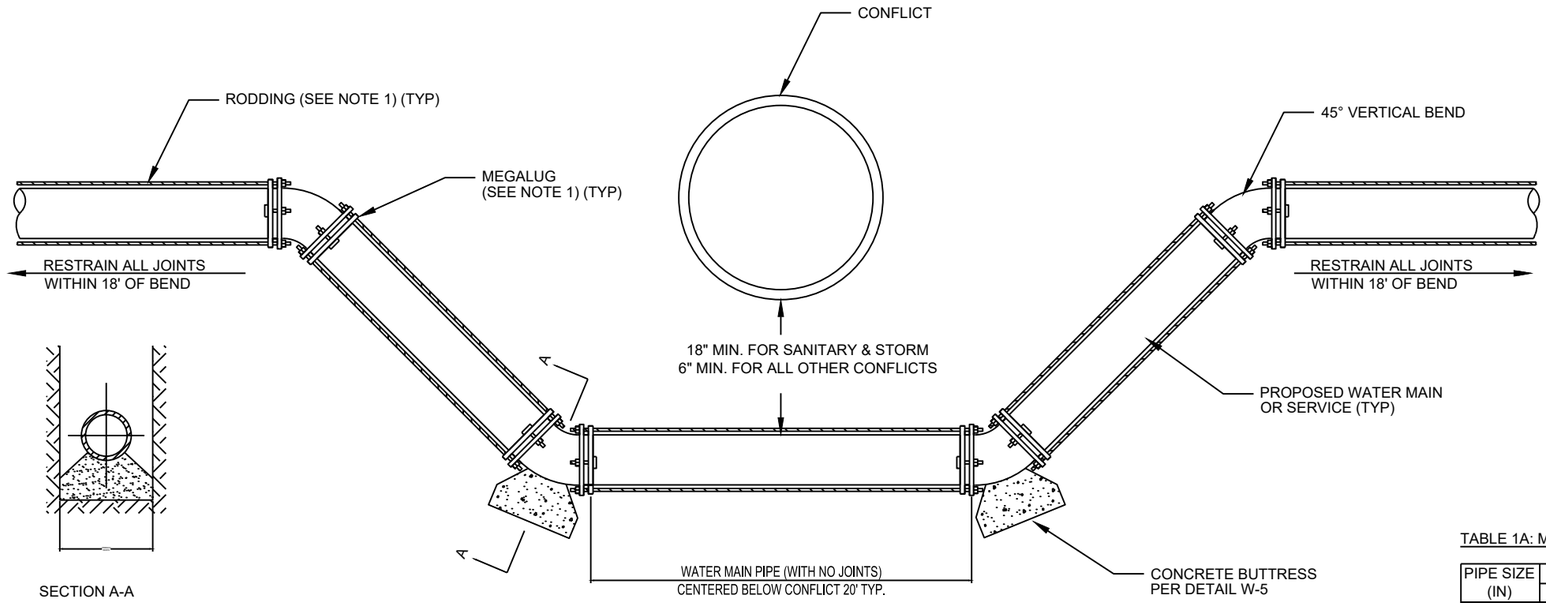
OPTION 2

NOTES:

1. HYDRANT ASSEMBLY INSTALLATION SHALL BE IN ACCORDANCE WITH THE HYDRANT ASSEMBLY DETAIL.
2. REFER TO THE SPECIAL PROVISIONS.
3. ALL VERTICAL BENDS SHALL BE RODDED WITH STAINLESS STEEL HARDWARE.

HYDRANT OFFSETS DETAIL

2



SECTION A-A

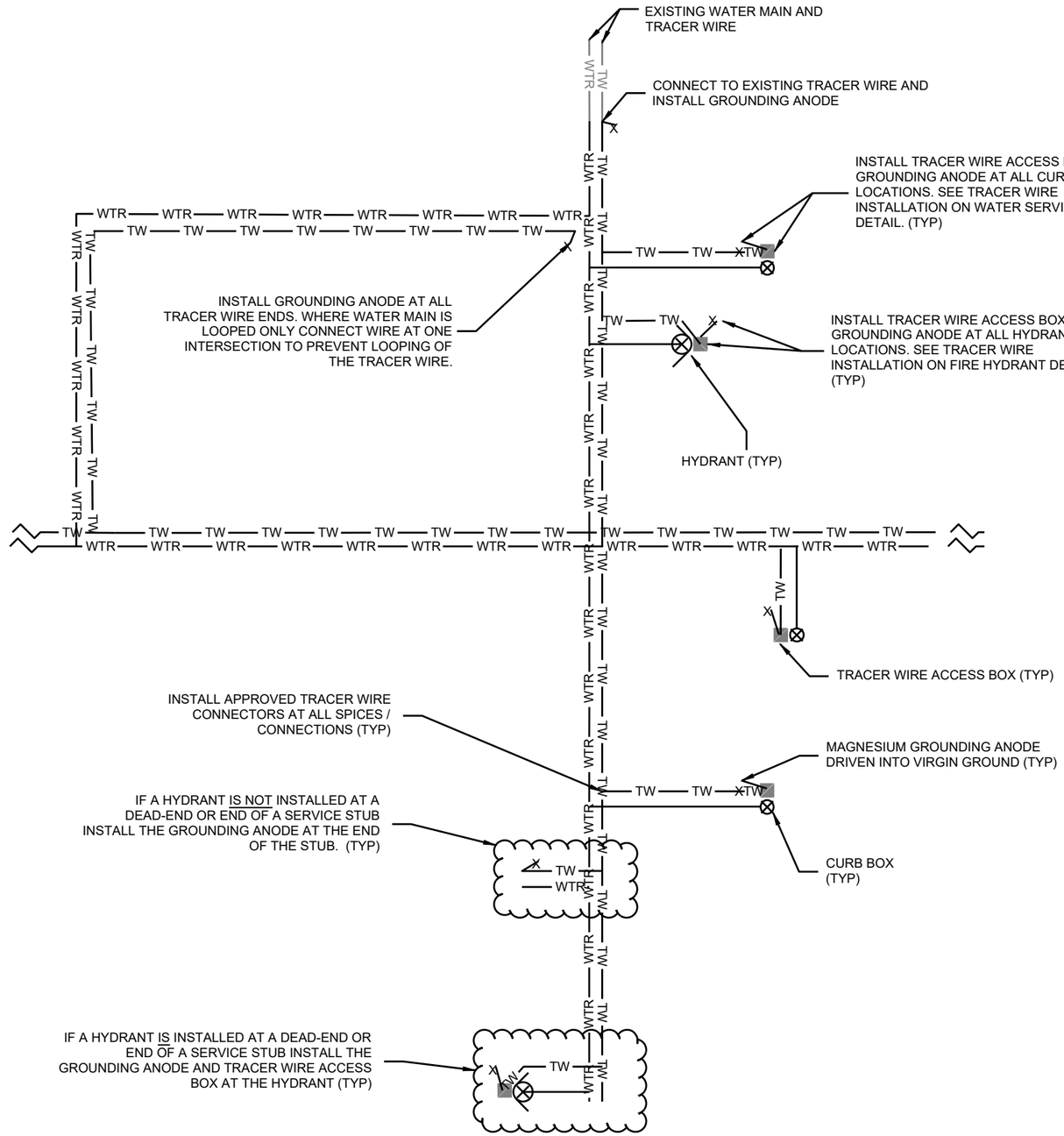
TABLE 1A: MINIMUM LENGTHS OF RESTRAINT

PIPE SIZE (IN)	HORIZONTAL BENDS (DEGREES)				DEAD END
	11 1/4	22 1/2	45	90	
4 TO 8	5-FT	5-FT	10-FT	25-FT	45-FT
10 TO 12	5-FT	10-FT	15-FT	35-FT	65-FT
14 TO 16	10-FT	10-FT	20-FT	40-FT	80-FT
18 TO 24	10-FT	10-FT	25-FT	50-FT	120-FT

NOTES:

1. VILLAGE OF PLEASANT PRAIRIE PUBLIC WATER MAINS - ALL JOINTS SHALL BE RESTRAINED WITH MEGALUGS OR STAINLESS STEEL RODDING IN CONFORMANCE WITH FILE NO. 47 OF THE "STANDARD SPECIFICATIONS."
   PRIVATE FIRE MAINS AND COMBINATION FIRE/WATER MAINS - ALL JOINTS SHALL BE RESTRAINED WITH MEGALUGS AND STAINLESS STEEL RODDING IN CONFORMANCE WITH SUBSECTION 10.6.2.1.2 OF THE NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE SERVICE MAINS AND THEIR APPURTENANCES.
   RESTRAINING FOR HORIZONTAL BENDS AND DEAD ENDS SHALL BE IN ACCORDANCE WITH FILE NO. 47A WITH MINIMUM LENGTHS FROM CENTER OF FITTING SHOWN IN TABLE 1A.
2. ALL FASTENERS SHALL BE STAINLESS STEEL.
3. WHEN NOTED ON THE PLANS OR DIRECTED BY THE VILLAGE, INSULATION SHALL BE INSTALLED BETWEEN THE WATER MAIN AND CONFLICT.
4. REFER TO SPECIAL PROVISIONS.

WATER MAIN VERTICAL OFFSET DETAIL

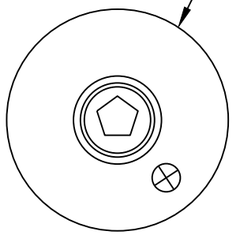


TRACER WIRE INSTALLATION ON WATER MAIN DETAIL

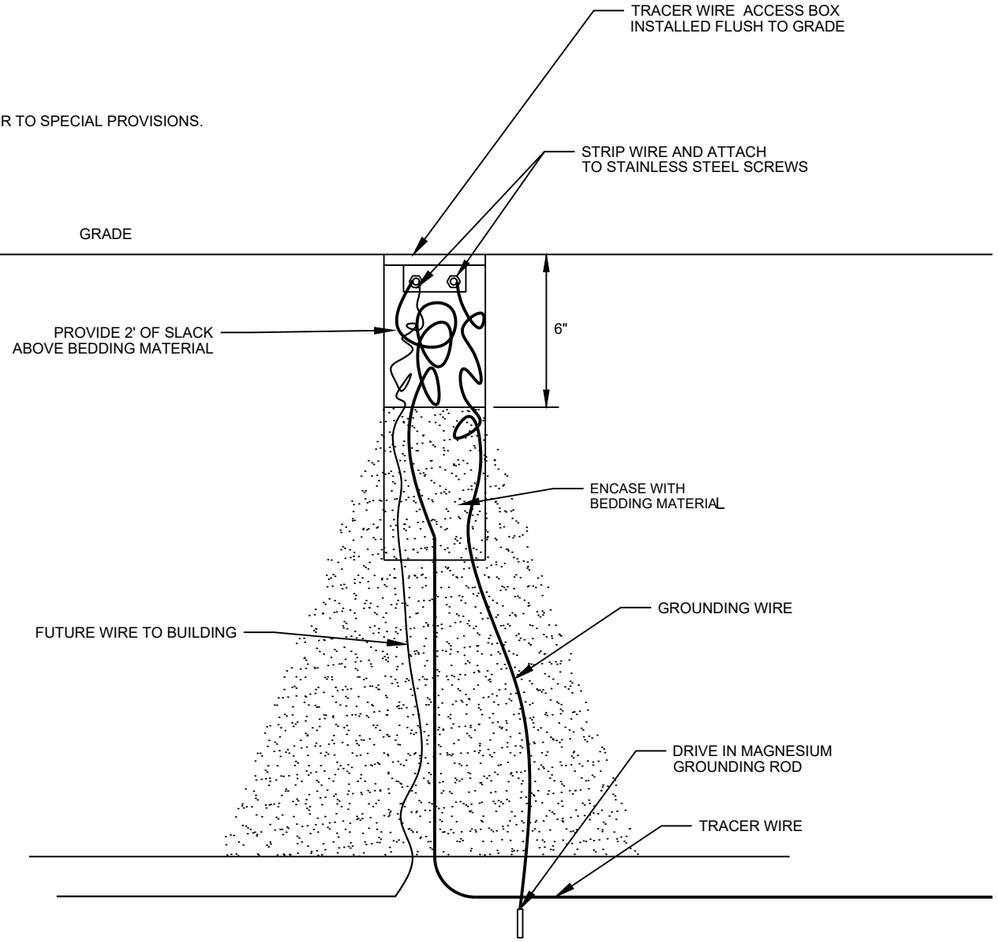
NOTES:

1. REFER TO SPECIAL PROVISIONS.
2. CONNECT TO EXISTING TRACER WIRE AT ONLY ONE LOCATION UNLESS OTHERWISE DIRECTED BY THE VILLAGE.
1. TRACER WIRE SHALL BE TAPED TO MAIN AND SERVICES. WIRE IS SHOWN OFF PIPES FOR CLARITY.
2. TAKE CARE TO PREVENT LOOPS IN TRACER WIRE. LOOPING OF WIRE CAN MAKE THE WIRE DIFFICULT TO TRACE.

SANITARY SEWER LIDS SHALL BE BLACK AND MARKED SEWER OR BE COLORED GREEN.
WATER MAIN LIDS SHALL BE BLACK AND MARKED WATER OR COLORED BLUE .



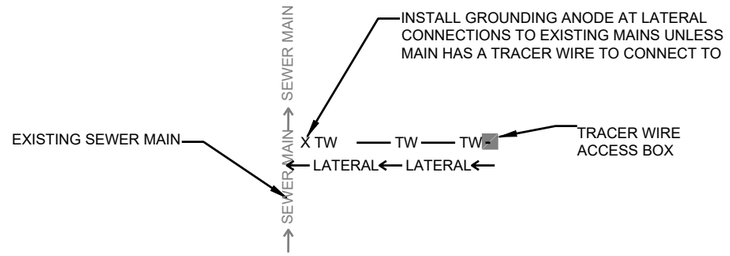
LID



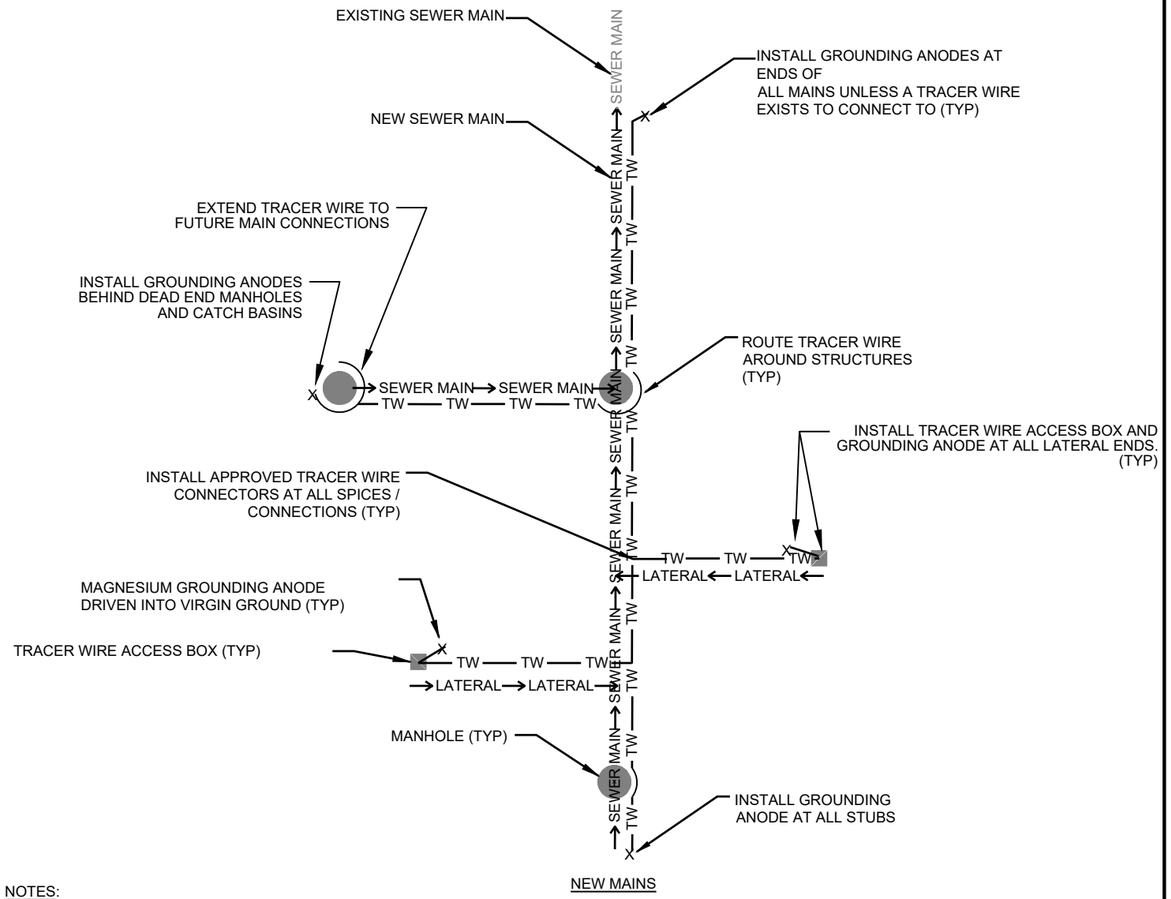
NOTES

1. REFER TO SPECIAL PROVISIONS.

TRACER WIRE ACCESS BOX DETAIL



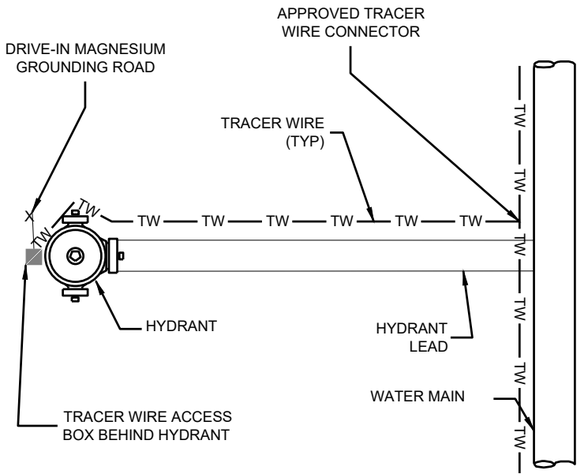
NEW LATERALS ON EXISTING MAINS



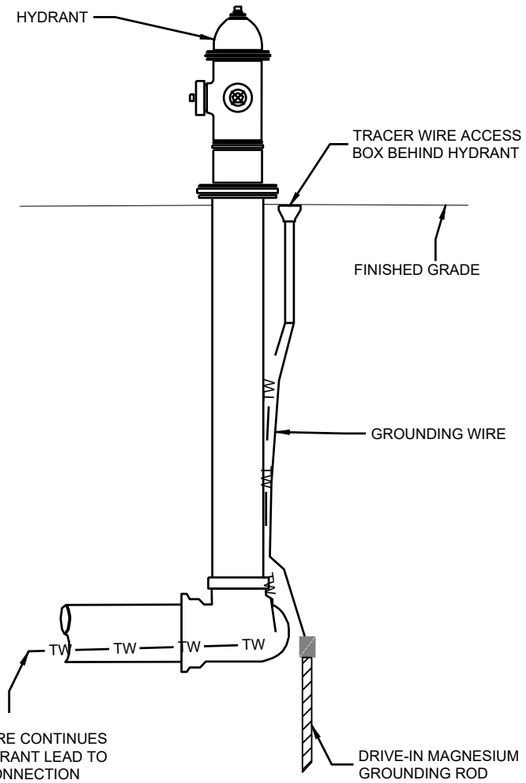
NEW MAINS

NOTES:
1. REFER TO SPECIAL PROVISIONS.
1. TRACER WIRE SHALL BE TAPED TO MAIN AND LATERALS. WIRE IS SHOWN OFF MAIN AND LATERALS FOR CLARITY.
2. RUN GROUND WIRE DOWN RISERS IF APPLICABLE.

TRACER WIRE INSTALLATION ON
SANITARY SEWER DETAIL



PLAN VIEW

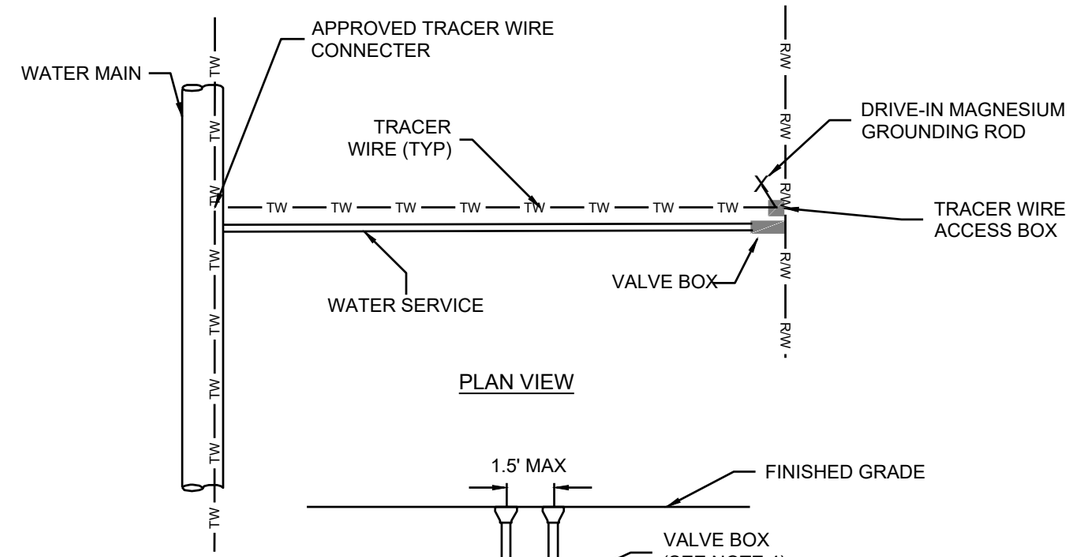


SECTION VIEW

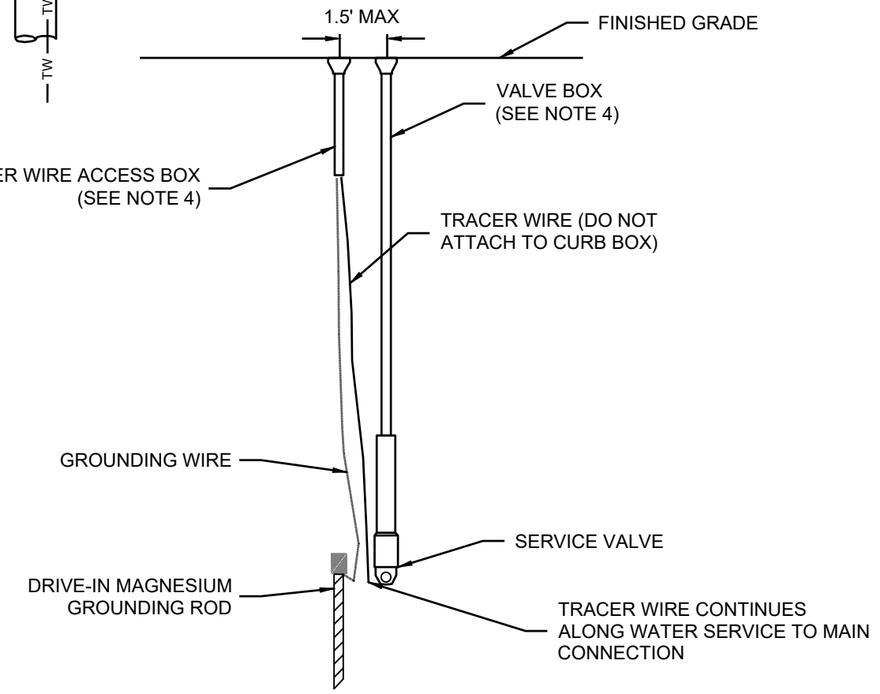
NOTES:

1. REFER TO SPECIAL PROVISIONS.
2. TRACER WIRE SHALL BE TAPED TO MAIN, LEAD AND HYDRANT. WIRE IS SHOWN OFF PIPES FOR CLARITY.
3. INSTALL GROUNDING ANODE BY DRIVING INTO VIRGIN GROUND AT THE HYDRANT SHOE.
4. TRACER WIRE ACCESS BOX SHALL BE INSTALLED DIRECTLY BEHIND ALL FIRE HYDRANTS.

TRACER WIRE INSTALLATION ON FIRE HYDRANT DETAIL



PLAN VIEW

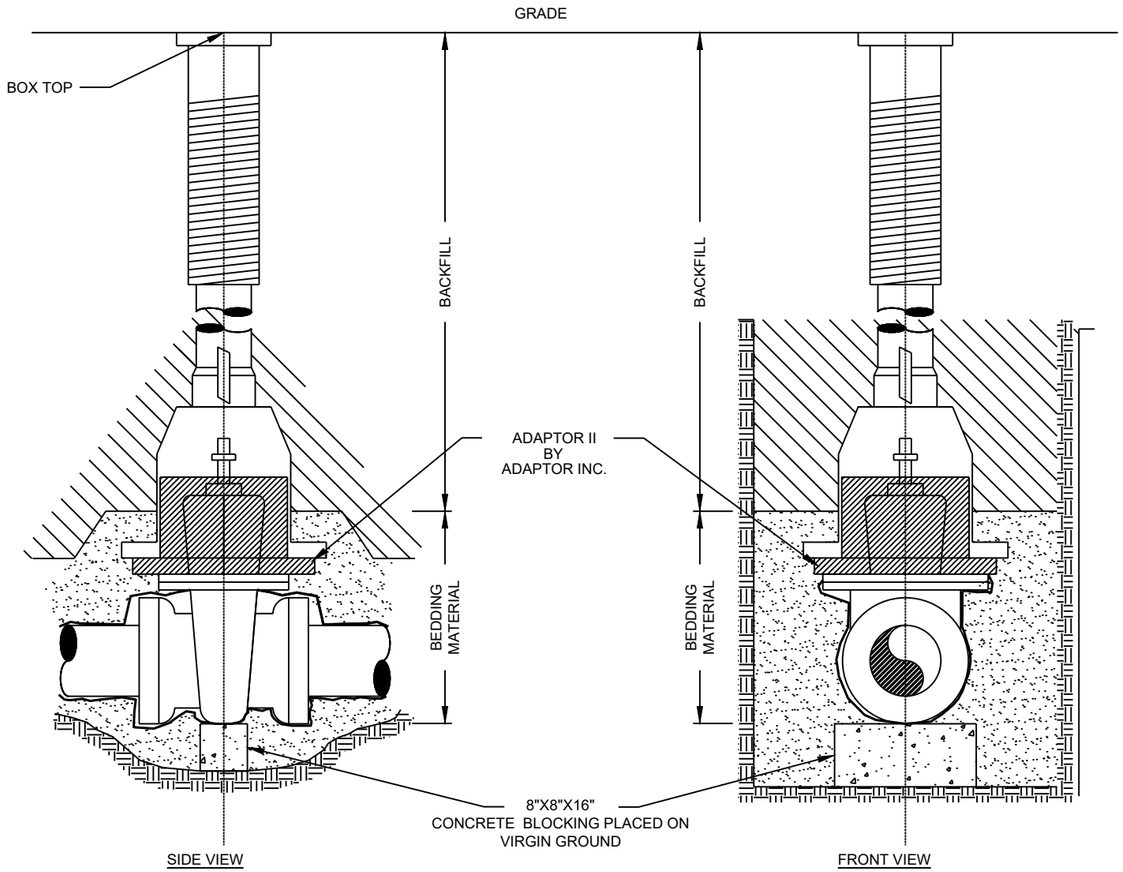


SECTION VIEW

NOTES:

1. REFER TO SPECIAL PROVISIONS.
2. TRACER WIRE SHALL BE TAPED TO MAIN AND SERVICES. WIRE IS SHOWN OFF PIPES FOR CLARITY.
3. INSTALL GROUNDING ANODE BY DRIVING INTO VIRGIN GROUND AT THE SERVICE VALVE.
4. NEW RESIDENTIAL WATER SERVICES SHALL UTILIZE A COMBINED TRACER WIRE AND CURB BOX. TRACER WIRE ACCESS BOX AND CURB VALVE BOX SHALL BE BOABOX™ WATER.

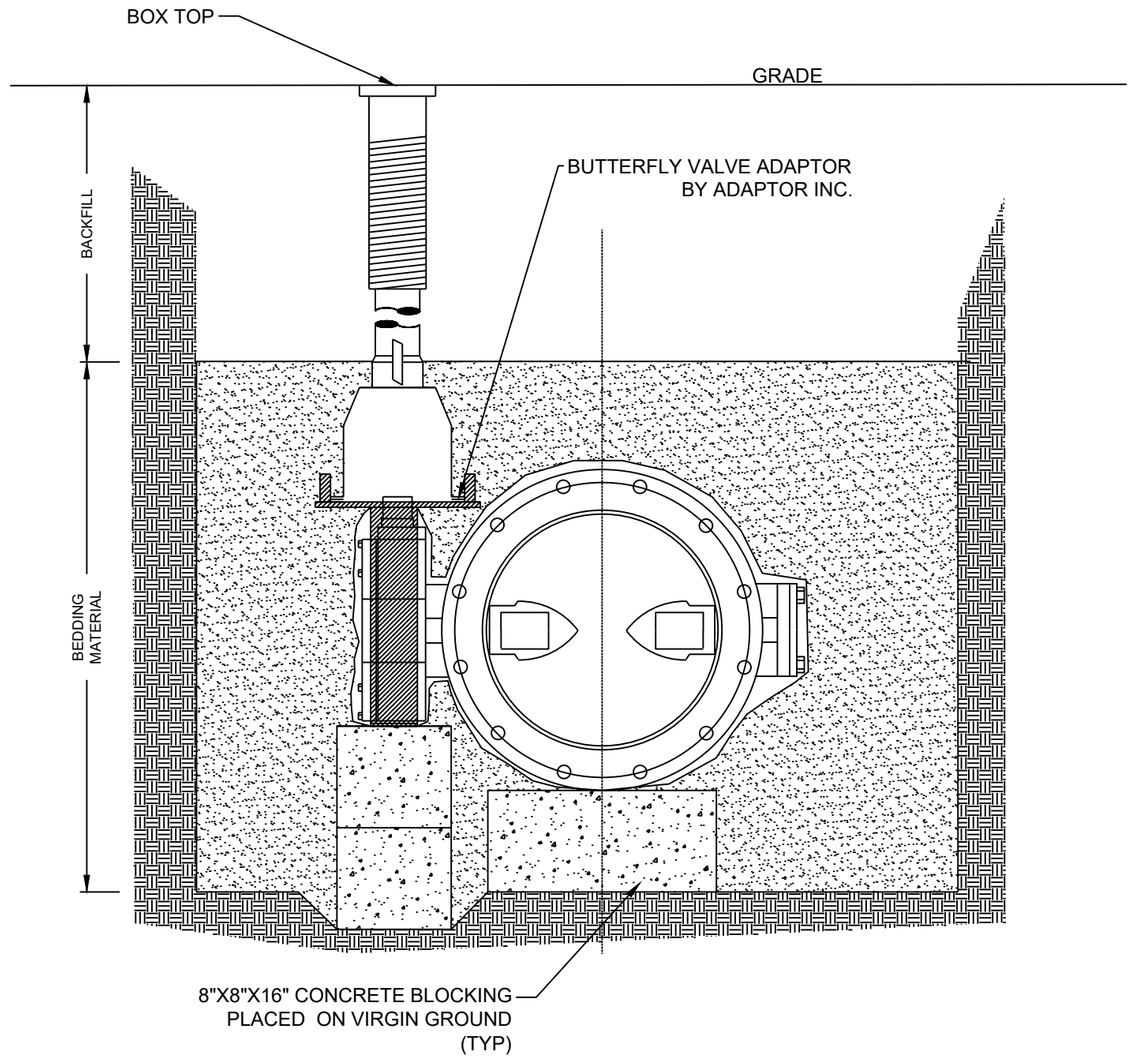
TRACER WIRE INSTALLATION ON WATER SERVICE DETAIL



NOTES:

1. VALVE SHALL BE WRAPPED IN BLACK POLYETHYLENE.
2. REFER TO SPECIAL PROVISIONS

GATE VALVE BOX SETTING DETAIL



BUTTERFLY VALVE BOX SETTING DETAIL

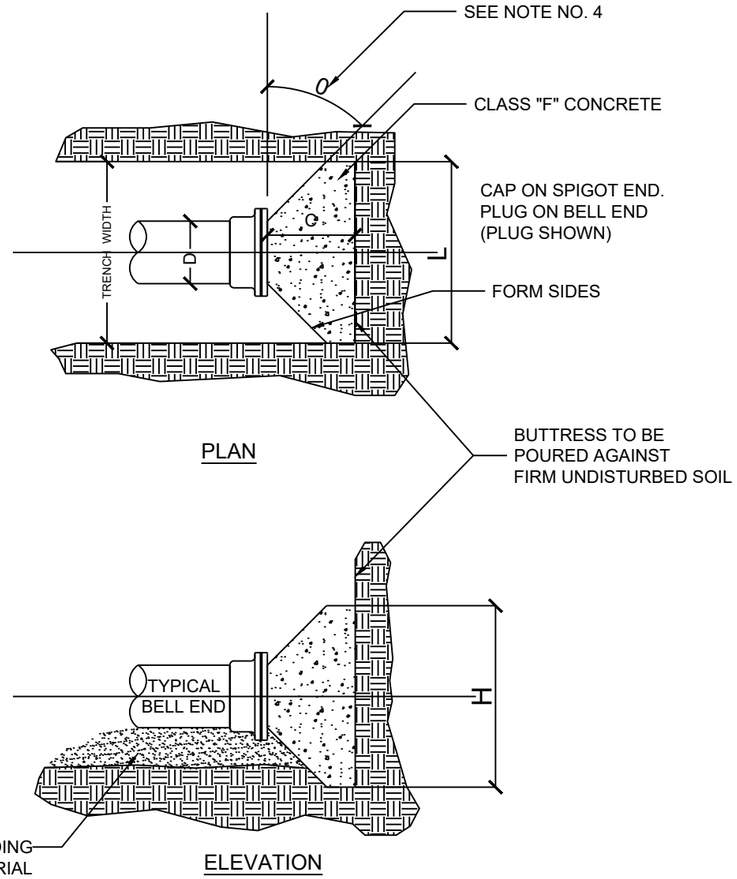
2

NOTES:

1. $L_{(WATER)}$ DIMENSIONS IN THE TABLE ARE BASED ON A WATER PRESSURE OF 150 PSI, AN EARTH RESISTANCE OF 2 TONS PER SQ. FT., A FACTOR OF SAFETY OF 1.5 AND IS TO BE USED FOR STANDARD WATER MAINS AND WATER SERVICES.
2. $L_{(FIRE)}$ DIMENSIONS IN THE TABLE ARE BASED ON A WATER PRESSURE OF 200 PSI, AN EARTH RESISTANCE OF 2 TONS PER SQ. FT., A FACTOR OF SAFETY OF 1.5 AND IS TO BE USED FOR FIRE LINES AND COMBINATION FIRE / WATER SERVICES.
3. SHAPE OF BACK OF BUTTRESS MAY VARY AS LONG AS POUR IS AGAINST FIRM UNDISTURBED EARTH AND SURFACE AREA (H x L) MATCHES THAT LISTED IN THE TABLE.
4. DIMENSION "C" SHOULD BE LARGE ENOUGH TO MAKE ANGLE "0" EQUAL TO OR LARGER THAN 45 DEG.
5. DIMENSION "D" EQUALS APPROX. I.D. OF PIPE LESS 2". AN EFFORT SHOULD BE MADE TO PREVENT CONCRETE FROM COVERING THE MECHANICAL JOINT BOLTS.
6. WHERE BUTTRESSES ARE NOT POSSIBLE BECAUSE OF POOR SOIL CONDITIONS OR LACK OF ROOM, STRAPPING SHALL BE PERMITTED IF APPROVED BY THE VILLAGE.
7. IF IN-SITU SOILS HAVE AN EARTH RESISTANCE OF LESS THAN 2 TONS PER SQ. FT. THE BUTTRESS AREA SHALL BE INCREASED PROPORTIONALLY.
8. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
9. REFER TO SPECIAL PROVISIONS.

BUTTRESS DIMENSIONS

PIPE	DEAD ENDS		
SIZE	H	$L_{(WATER)}$	$L_{(FIRE)}$
4"	1'-6"	1'-0"	1'-0"
6"	1'-8"	1'-9"	1'-9"
8"	2'-4"	2'-0"	2'-1"
10"	2'-4"	2'-4"	3'-1"
12"	2'-7"	3'-0"	4'-0"
14"	2'-10"	3'-8"	4'-10"
16"	2'-10"	4'-9"	6'-4"
18"	3'-6"	4'-10"	6'-5"
20"	3'-10"	5'-5"	7'-2"
24"	4'-8"	6'-2"	8'-3"

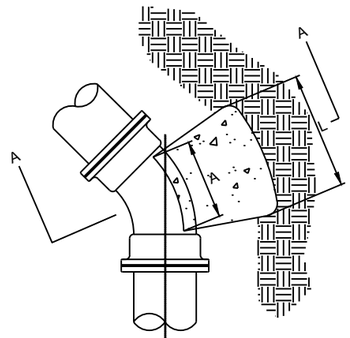


BUTTRESS FOR DEAD ENDS DETAIL

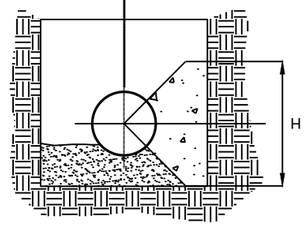
2

NOTES:

1. L (WATER) DIMENSIONS IN THE TABLE ARE BASED ON A WATER PRESSURE OF 150 PSI, AN EARTH RESISTANCE OF 2 TONS PER SQ. FT., A FACTOR OF SAFETY OF 1.5 AND IS TO BE USED FOR STANDARD WATER MAINS AND WATER SERVICES.
2. L (FIRE) DIMENSIONS IN THE TABLE ARE BASED ON A WATER PRESSURE OF 200 PSI, AN EARTH RESISTANCE OF 2 TONS PER SQ. FT., A FACTOR OF SAFETY OF 1.5 AND IS TO BE USED FOR FIRE LINES AND COMBINATION FIRE / WATER SERVICES.
3. DIMENSION (A) SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH MECHANICAL JOINT BOLTS.
4. SHAPE OF BACK OF BUTTRESS MAY VARY AS LONG AS POUR IS AGAINST FIRM UNDISTURBED EARTH AND SURFACE AREA (H x L) MATCHES THAT LISTED IN THE TABLE.
5. IF IN-SITU SOILS HAVE AN EARTH RESISTANCE OF LESS THAN 2 TONS PER SQ. FT. THE BUTTRESS AREA SHALL BE INCREASED PROPORTIONALLY.
6. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
7. REFER TO SPECIAL PROVISIONS.



PLAN



SECTION A-A

BUTTRESS DIMENSIONS

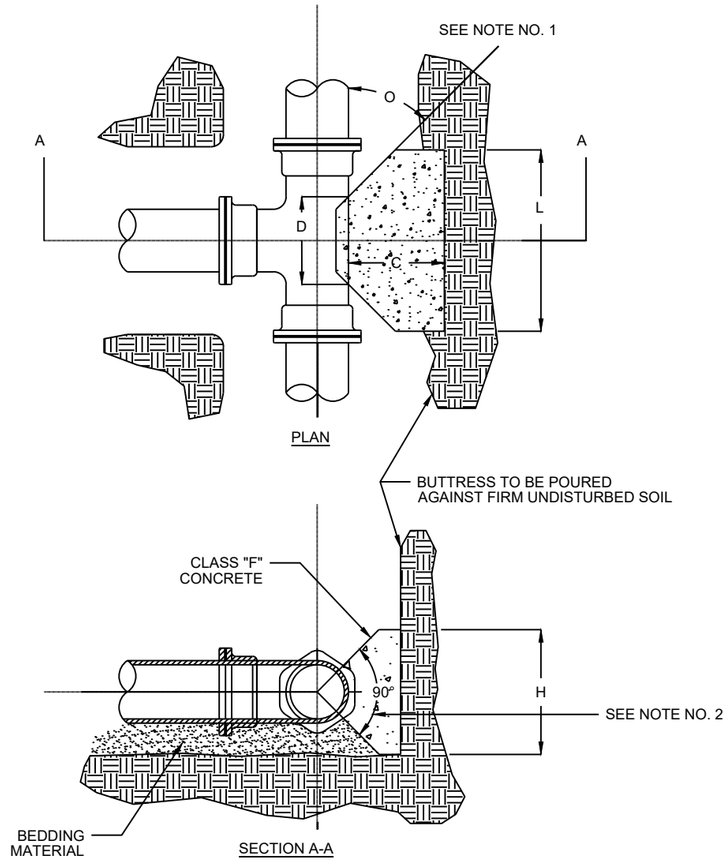
PIPE	11¼ DEG. BEND			22½ DEG. BEND			45 DEG. BEND			90 DEG. BEND		
SIZE	H	L (WATER)	L (FIRE)	H	L (WATER)	L (FIRE)	H	L (WATER)	L (FIRE)	H	L (WATER)	L (FIRE)
4"	0'-8"	0'-5"	0'-5"	1'-1"	0'-6"	0'-6"	1'-3"	0'-10"	0'-10"	1'-4"	1'-6"	1'-6"
6"	1'-2"	0'-6"	0'-6"	1'-6"	0'-9"	0'-9"	1'-8"	1'-4"	1'-4"	1'-10"	2'-2"	2'-2"
8"	1'-3"	0'-9"	0'-9"	2'-0"	1'-0"	1'-0"	2'-0"	1'-11"	1'-11"	2'-4"	3'-0"	3'-0"
10"	1'-3"	0'-10"	1'-2"	2'-0"	1'-1"	1'-5"	2'-0"	2'-1"	2'-9"	2'-4"	3'-4"	4'-5"
12"	1'-4"	1'-2"	1'-6"	2'-6"	1'-2"	1'-7"	2'-6"	2'-4"	3'-2"	2'-8"	4'-1"	5'-5"
14"	1'-6"	1'-4"	1'-10"	3'-0"	1'-4"	1'-10"	3'-0"	2'-8"	3'-6"	3'-0"	4'-11"	6'-6"
16"	2'-0"	1'-4"	1'-9"	3'-0"	1'-9"	2'-4"	3'-0"	3'-5"	4'-7"	3'-0"	6'-4"	8'-5"
18"	2'-6"	1'-4"	1'-9"	3'-6"	1'-10"	2'-6"	3'-6"	3'-8"	4'-11"	3'-6"	6'-9"	9'-1"
20"	2'-9"	1'-6"	2'-0"	3'-9"	2'-2"	2'-10"	3'-9"	4'-2"	5'-7"	3'-9"	7'-9"	10'-4"
24"	3'-0"	1'-11"	2'-7"	4'-3"	2'-8"	3'-7"	4'-3"	5'-4"	7'-1"	4'-4"	9'-7"	12'-10"

BUTTRESS FOR BENDS DETAIL

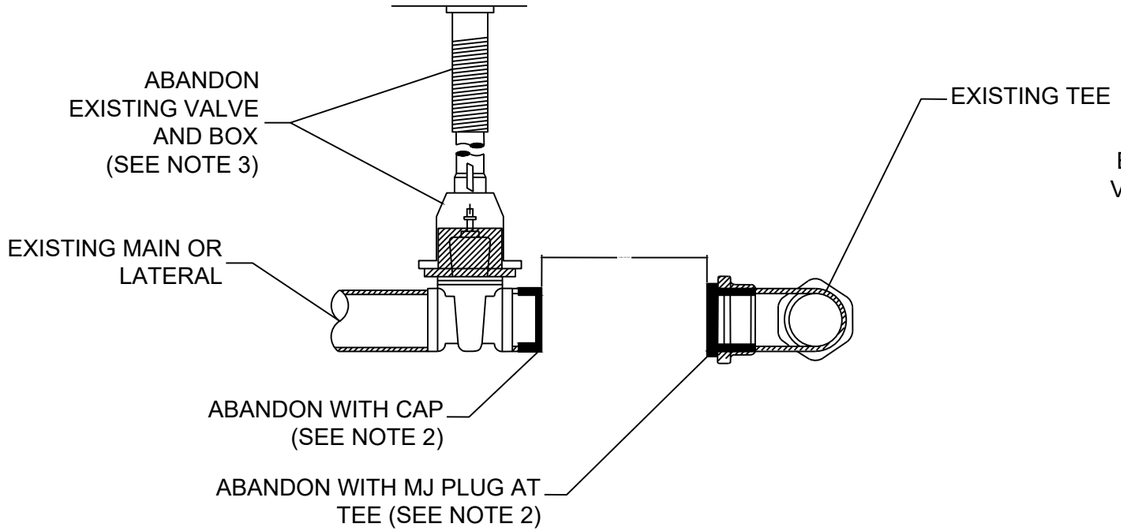
NOTES:

1. $L_{(WATER)}$ DIMENSIONS IN THE TABLE ARE BASED ON A WATER PRESSURE OF 150 PSI, AN EARTH RESISTANCE OF 2 TONS PER SQ. FT., A FACTOR OF SAFETY OF 1.5 AND IS TO BE USED FOR STANDARD WATER MAINS AND WATER SERVICES.
2. $L_{(FIRE)}$ DIMENSIONS IN THE TABLE ARE BASED ON A WATER PRESSURE OF 200 PSI, AN EARTH RESISTANCE OF 2 TONS PER SQ. FT., A FACTOR OF SAFETY OF 1.5 AND IS TO BE USED FOR FIRE LINES AND COMBINATION FIRE / WATER SERVICES.
3. SHAPE OF BACK OF BUTTRESS MAY VARY AS LONG AS POUR IS AGAINST FIRM UNDISTURBED EARTH AND SURFACE AREA (H x L) MATCHES THAT LISTED IN THE TABLE. CONCRETE SHALL BEAR ON FITTINGS AS SHOWN.
4. DIMENSION "C" SHOULD BE LARGE ENOUGH TO MAKE ANGLE "0" EQUAL TO OR LARGER THAN 45 DEG.
5. DIMENSION "D" EQUALS APPROX. I.D. OF PIPE LESS 2". AN EFFORT SHOULD BE MADE TO PREVENT CONCRETE FROM COVERING THE MECHANICAL JOINT BOLTS.
6. WHERE BUTTRESSES ARE NOT POSSIBLE BECAUSE OF POOR SOIL CONDITIONS OR LACK OF ROOM, STRAPPING SHALL BE PERMITTED IF APPROVED BY THE VILLAGE.
7. IF IN-SITU SOILS HAVE AN EARTH RESISTANCE OF LESS THAN 2 TONS PER SQ. FT. THE BUTTRESS AREA SHALL BE INCREASED PROPORTIONALLY.
8. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
9. REFER TO SPECIAL PROVISIONS.

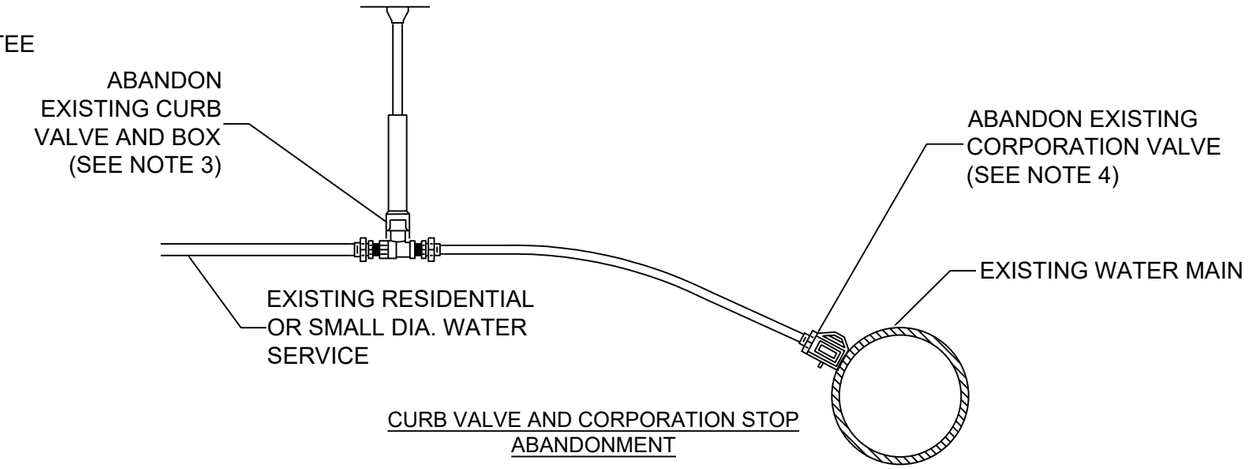
PIPE	TEE		
SIZE	H	$L_{(WATER)}$	$L_{(FIRE)}$
4"	1'-6"	1'-0"	1'-0"
6"	1'-8"	1'-9"	1'-9"
8"	2'-4"	2'-0"	2'-1"
10"	2'-4"	2'-4"	3'-1"
12"	2'-7"	3'-0"	4'-0"
14"	2'-10"	3'-8"	4'-10"
16"	2'-10"	4'-9"	6'-4"
18"	3'-6"	4'-10"	6'-5"
20"	3'-10"	5'-5"	7'-2"
24"	4'-8"	6'-2"	8'-3"



BUTTRESS FOR TEES DETAIL



VALVE ABANDONMENT AND MAIN/SERVICE ABANDONMENT AT TEE



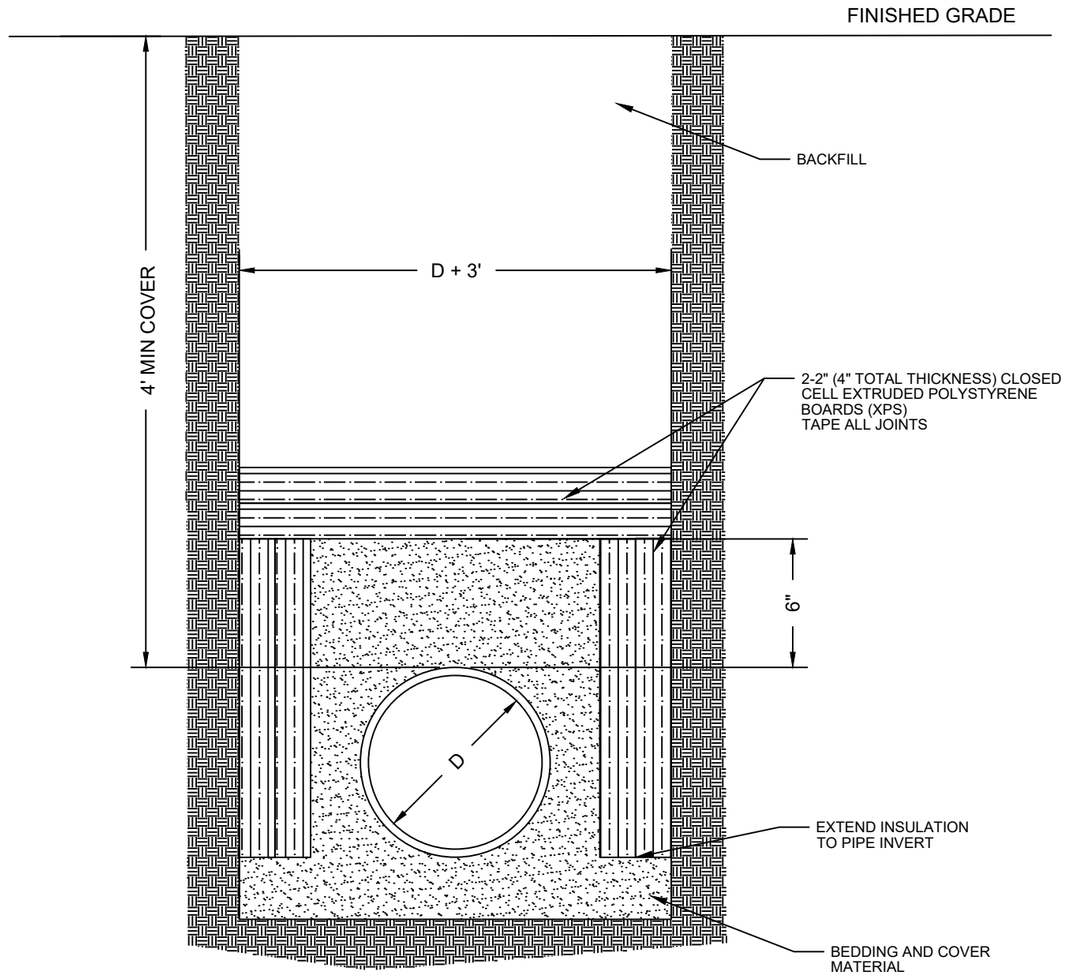
CURB VALVE AND CORPORATION STOP ABANDONMENT

NOTES:

1. ALL INACTIVE (DEAD) WATER MAINS AND LATERALS, EXCEPT MAINS OR LATERALS TO POSSIBLE FUTURE DEVELOPMENT, SHALL BE ABANDONED.
2. MAINS AND LATERALS CONNECTED TO EXISTING MAINS WITH A TEE SHALL BE ABANDONED AT THE TEE WHEN DIRECTED BY THE VILLAGE. ABANDONMENT AT THE MAIN LINE TEE SHALL BE COMPLETED BY REMOVING THE PIPE AND INSTALLING A PLUG ON THE TEE. THE REMAINING ABANDONED PIPE WITHIN 5' OF THE BACK OF CURB OR EDGE OF SHOULDER SHALL FILLED WITH A FLOWABLE FILL AND PLUGGED WITH A WATERPROOF PLUG OR CAP. FLOWABLE FILL SHALL BE CELLULAR CONCRETE SLURRY OR APPROVED EQUAL. IF DETERMINED BY THE VILLAGE THAT THE EXISTING MAIN CANNOT BE SHUT DOWN FOR THE INSTALLATION OF THE PLUG ON THE TEE THEN ONLY THE SERVICE VALVE SHALL BE CLOSED.
3. ABANDONED VALVES SHALL BE LEFT IN PLACE . VALVE BOXES SHALL BE ABANDONED BY REMOVING THE COVER AND TOP SECTION(S) TO A DEPTH OF 3 FEET BELOW THE FINAL GRADE. BACKFILL REMAINING VALVE BOX SECTIONS AND EXCAVATION WITH SLURRY WITHIN ROADWAYS OR GRANULAR MATERIAL ELSEWHERE.
4. SERVICE CONNECTIONS MADE TO MAIN WITH CORPORATION VALVES SHALL BE ABANDONED BY CLOSING THE CORPORATION VALVE AND PLUGGING THE SERVICE SIDE OF THE CORPORATION WITH A BRASS CAP.

ABANDONING VALVES AND WATER MAIN SERVICE CONNECTIONS DETAIL

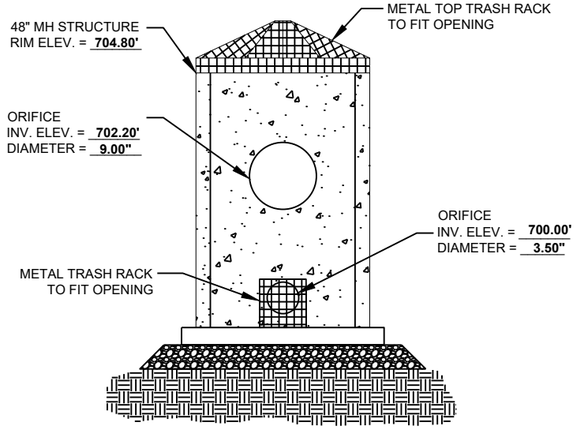
2



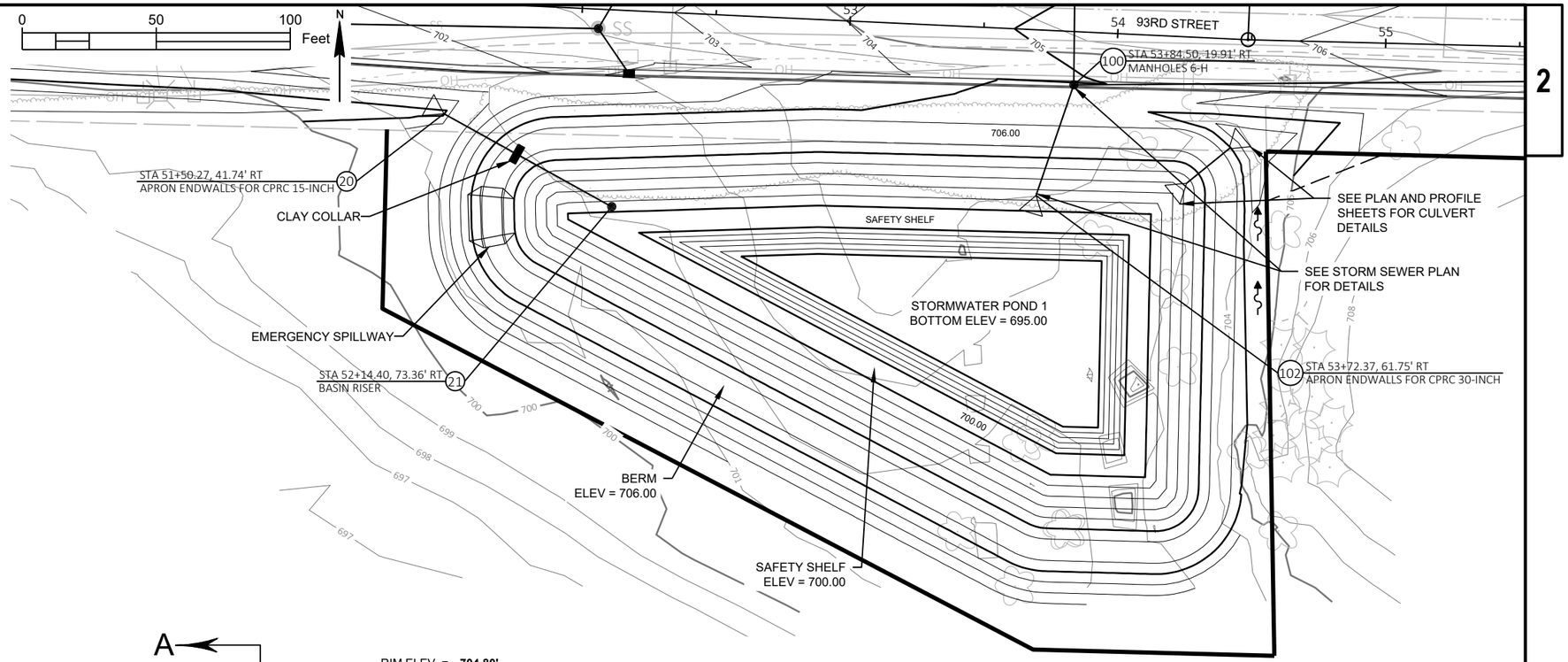
NOTES:

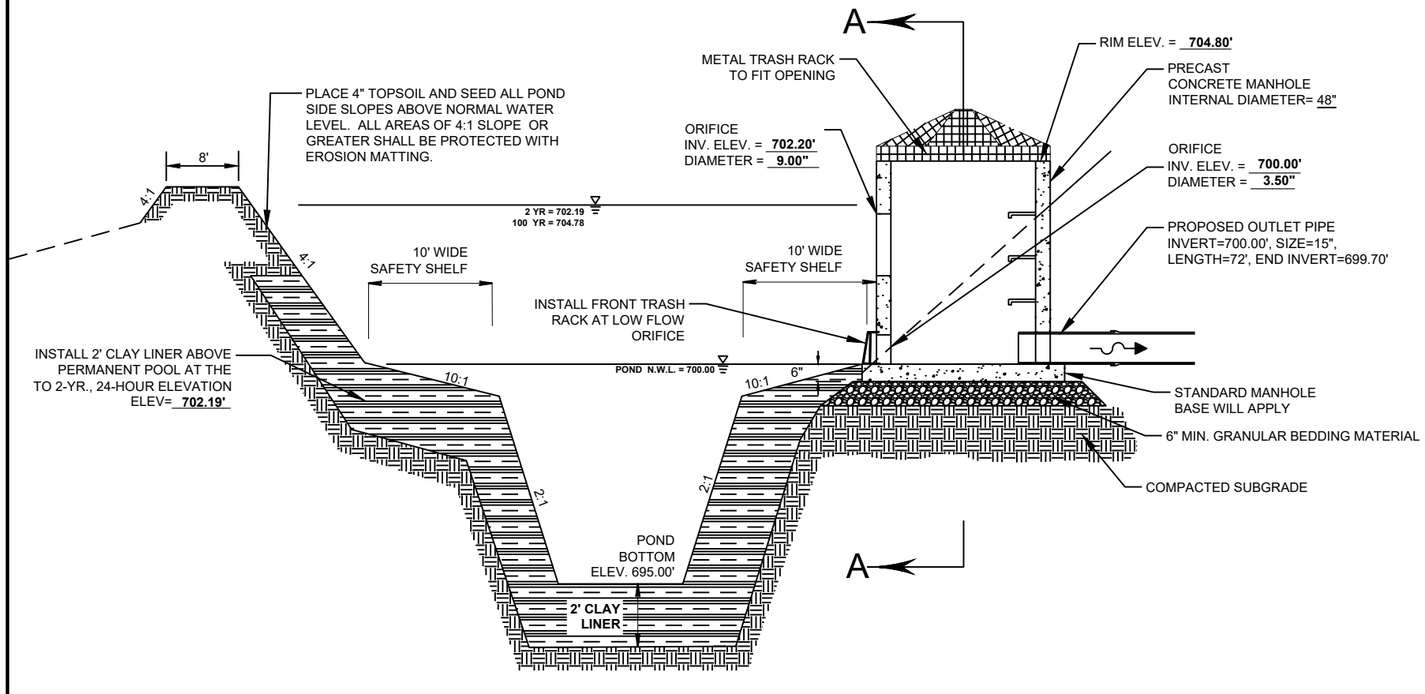
1. WATER MAINS WITH LESS THAN 6' OF COVER AND SERVICES WITH LESS THAN 5' OF COVER SHALL BE INSULATED EXCEPT WHERE NOTED BELOW:
   1.1. WATER MAINS AND SERVICES WITH LESS THAN 4' OF COVER SHALL BE OFFSET TO OBTAIN 6' OF COVER EXCEPT PROVIDE A MINIMUM OF 5' OF COVER ON SERVICES AT DITCH CROSSINGS.
   1.2. HYDRANTS SHALL NEVER HAVE LESS THAN 5.5' OF COVER.
2. LONG SIDE OF JOINTS SHALL BE PARALLEL WITH THE CENTERLINE OF THE PIPE. STAGGER JOINTS.
3. WITH EXCAVATED MATERIAL BACKFILL A 6" LAYER OF BEDDING SHALL BE PLACED ON TOP OF THE FOAM BOARDS.

WATER MAIN INSULATION DETAIL

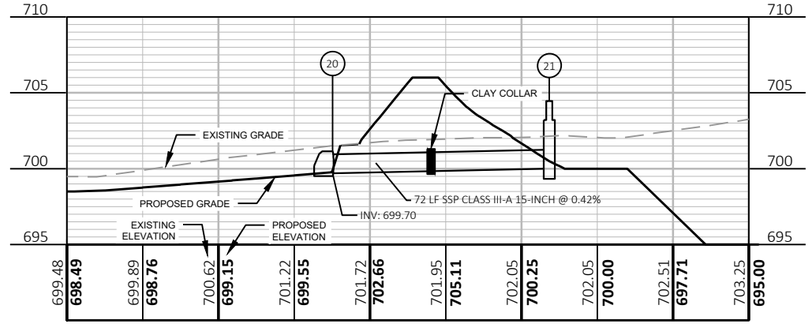


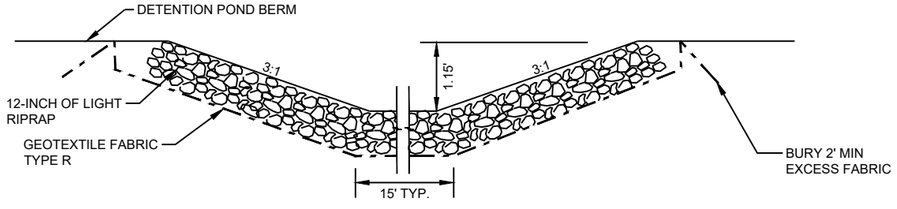
SECTION A-A





POND 1 SECTION VIEW

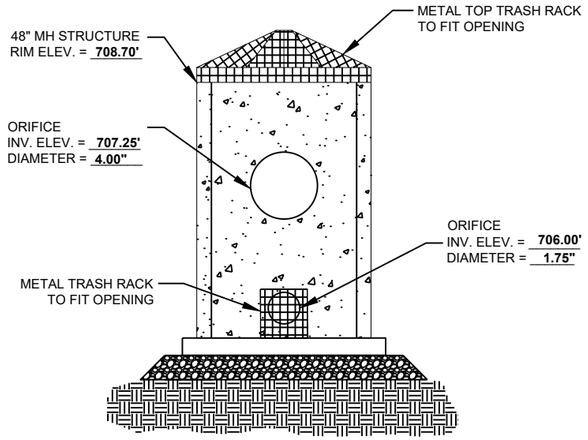




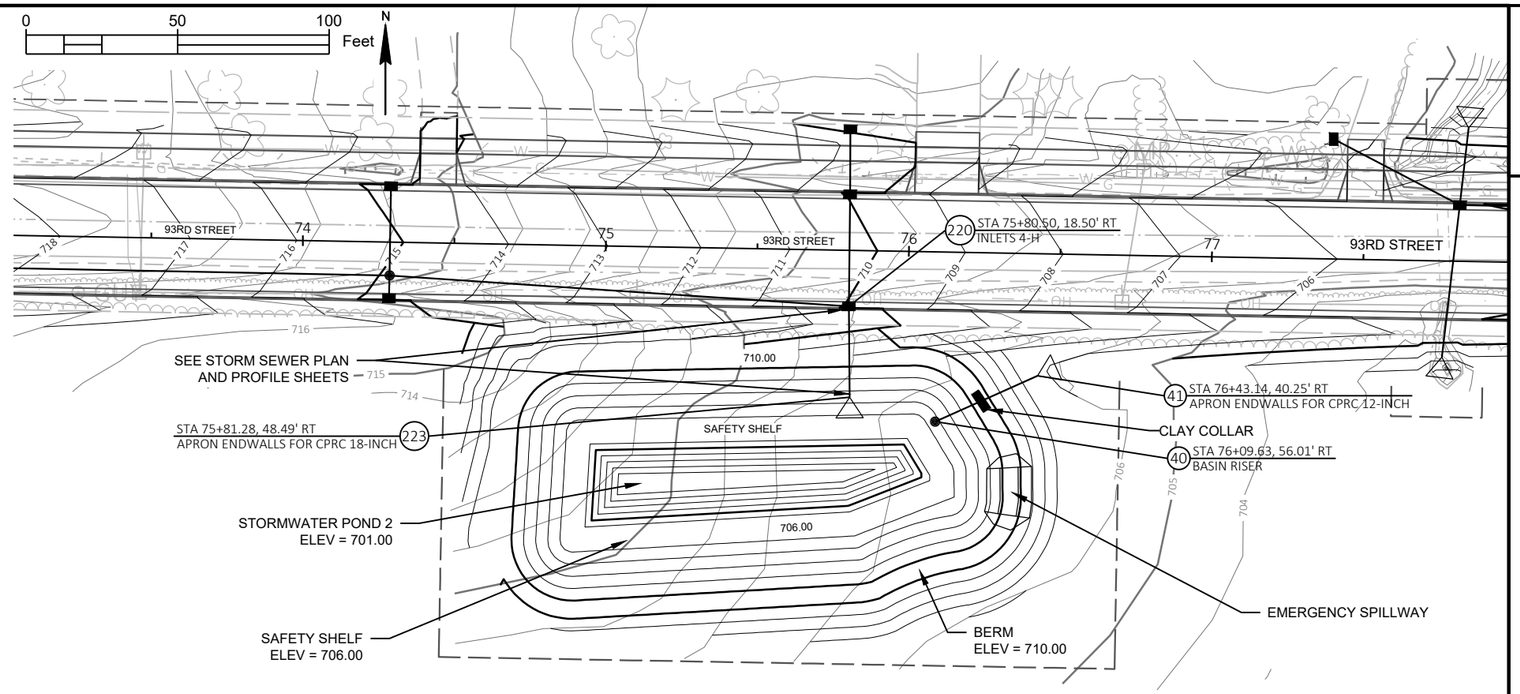
EMERGENCY SPILLWAY
N.T.S.

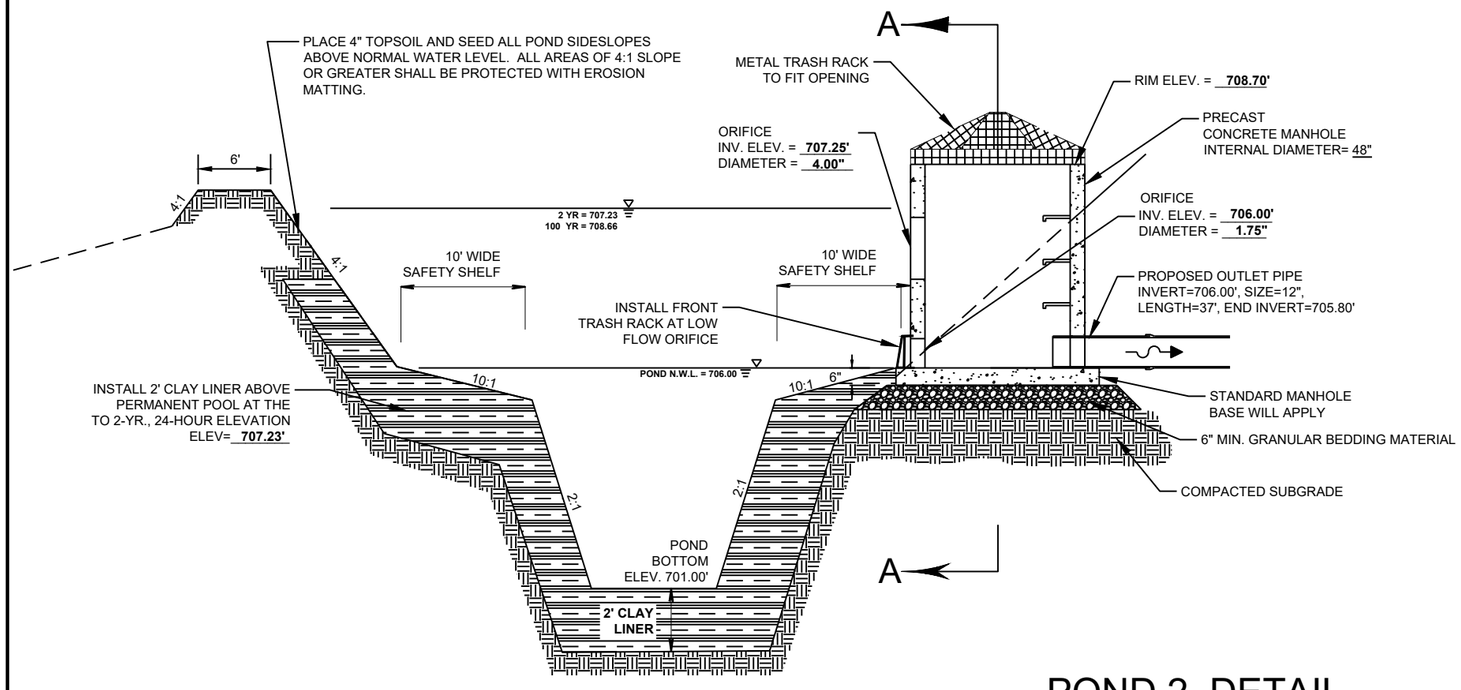
POND 1 DETAIL
N.T.S.

PROJECT NO: 3830-01-70	HWY: 93RD ST.	COUNTY: KENOSHA	PROPOSED STORMWATER POND DETAILS	SHEET 30	E

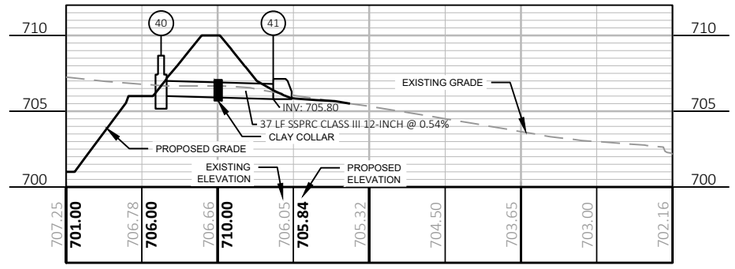


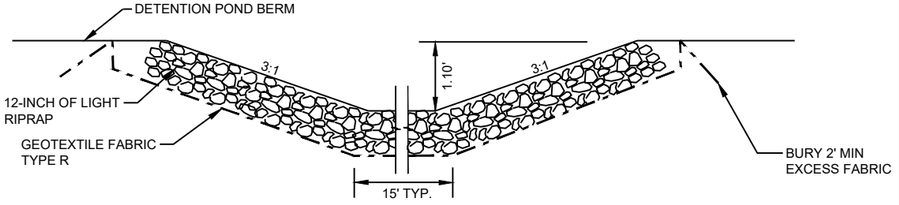
SECTION A-A





POND 2 SECTION VIEW



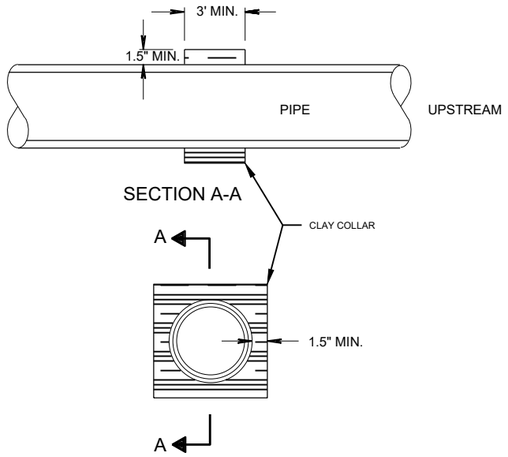


EMERGENCY SPILLWAY
N.T.S.

POND 2 DETAIL
N.T.S.

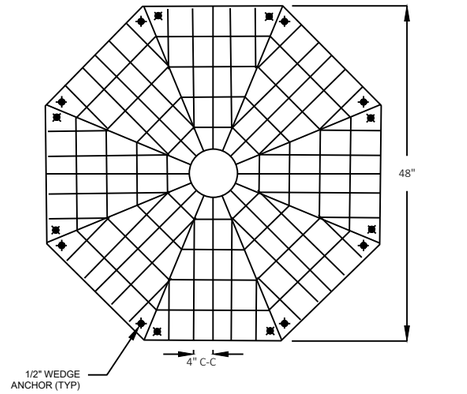
PROJECT NO: 3830-01-70	HWY: 93RD ST.	COUNTY: KENOSHA	PROPOSED STORMWATER POND DETAILS	SHEET 31	E

2



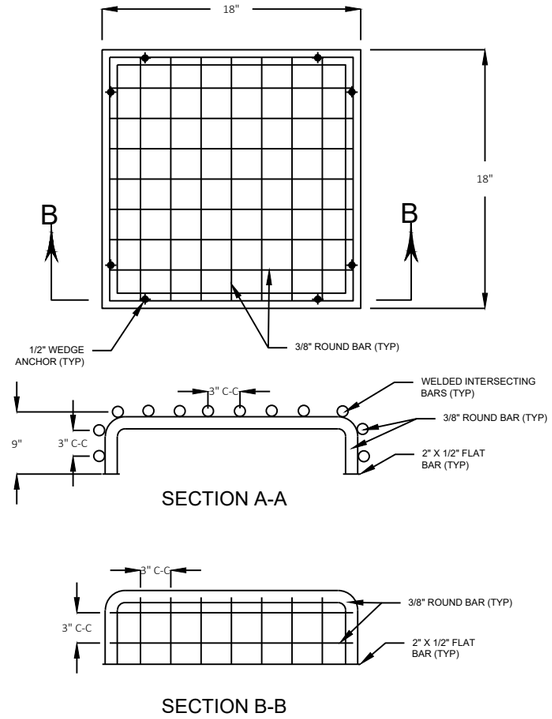
CLAY COLLAR DETAIL

N.T.S.



TOP TRASH RACK DETAIL

N.T.S.



FRONT TRASH RACK DETAIL

N.T.S.

PROJECT NO: 3830-01-70	HWY: 93RD ST.	COUNTY: KENOSHA	PROPOSED STORMWATER POND DETAILS	SHEET 32	E

FILE NAME : F:\PROJECTS\24-500 - DESIGN\24-514 93RD STREET PROJECT\CAD\WISDOT - MUNICIPAL\PR POND DETAILS.DWG PLOT DATE : 7/23/2026 7:31 AM PLOT BY : RACHEL HERB PLOT NAME :

2

2

N

REMOVING STORM SEWER (26' OF 12-INCH)

REMOVING CURB & GUTTER (80 LF)

REMOVING INLET (1)

REMOVING SMALL CULVERT PIPES (1)

48'EB' **93RD ST** 49'EB' 50'EB' 51'EB' 52'EB' 53'EB' 54'EB' **93RD ST**

REMOVING MANHOLE (1)

REMOVING STORM SEWER (15' OF 12-INCH)

REMOVING INLET (1)

REMOVING CURB & GUTTER (90 LF)

REMOVAL LEGEND:

- CLEARING AND GRUBBING
- EXISTING R/W
- EXISTING PROPERTY LINE
- PROPOSED R/W
- PROPOSED TLE
- PROPOSED PLE
- SLOPE INTERCEPTS

STOP

REMOVING SIGNS TYPE II (1)
REMOVING SMALL SIGN SUPPORTS (1)

6'S'

60TH AVE

N

REMOVING CONCRETE PAVEMENT (4 SY)

REMOVING SMALL CULVERT PIPES (1)

REMOVING SMALL CULVERT PIPES (1)

93RD ST 54'EB' 55'EB' 56'EB' 57'EB' 58'EB' 59'EB' 60'EB' **93RD ST**

REMOVING SIGNS TYPE II (1)
REMOVING SMALL SIGN SUPPORTS (1)

SPEED LIMIT 35

REMOVING CONCRETE PAVEMENT (13 SY)

REMOVING SMALL CULVERT PIPES (1)

REMOVING SMALL CULVERT PIPES (1)

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	REMOVAL PLAN	SHEET 33	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021051-RP.DWG
LAYOUT NAME - 01

PLOT DATE : 7/15/2026 3:32 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

2

N

REMOVING SMALL CULVERT PIPES (1)

STONE MON

STONE MON

93RD ST

93RD ST

60'EB' 61'EB' 62'EB' 63'EB' 64'EB' 65'EB' 66'EB'

POST POST POST

REMOVAL LEGEND:

- CLEARING AND GRUBBING
- EXISTING R/W
- EXISTING PROPERTY LINE
- PROPOSED R/W
- PROPOSED TLE
- PROPOSED PLE
- SLOPE INTERCEPTS

N

11'IP'

INGRAM PARK RD

REMOVING CONCRETE PAVEMENT (12 SY)

REMOVING SMALL CULVERT PIPES (1)

REMOVING SMALL CULVERT PIPES (1)

XXXXXXX

XXXXX

XXXX

POST

93RD ST

REMOVING SMALL CULVERT PIPES (1)

66'EB' 67'EB' 68'EB' 69'EB' 70'EB' 71'EB' 72'EB'

93RD ST

SECTION CORNER MONUMENTS
(SW SEC. 14, T1N, R22E)

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	REMOVAL PLAN	SHEET 34	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021051-RP.DWG
LAYOUT NAME - 02

PLOT DATE : 7/15/2026 3:32 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

2

REMOVING CONCRETE PAVEMENT (11 SY)

REMOVING SMALL CULVERT PIPES (1)

REMOVING SMALL CULVERT PIPES (1)

REMOVING CONCRETE PAVEMENT (20 SY)

REMOVING SMALL CULVERT PIPES (1)

REMOVING SMALL CULVERT PIPES (1)

REMOVING SMALL CULVERT PIPES (1)

N

72'EB' **93RD ST** 73'EB' 74'EB' 75'EB' 76'EB' 77'EB' 78'EB' **93RD ST**

SECTION CORNER MONUMENTS
(SW SEC. 14, T1N, R22E)

POST

REMOVAL LEGEND:

- CLEARING AND GRUBBING
- EXISTING R/W
- EXISTING PROPERTY LINE
- PROPOSED R/W
- PROPOSED TLE
- PROPOSED PLE
- SLOPE INTERCEPTS

REMOVING SMALL CULVERT PIPES (1)

REMOVING SMALL CULVERT PIPES (1)

REMOVING SMALL CULVERT PIPES (1)

REMOVING SIGNS TYPE II (1)
REMOVING SMALL SIGN SUPPORTS (1)

SPEED LIMIT 35

REMOVING SMALL CULVERT PIPES (1)

N

93RD ST 78'EB' 79'EB' 80'EB' 81'EB' 82'EB' 83'EB' 84'EB' **93RD ST**

POST POST

REMOVING SIGNS TYPE II (1)
REMOVING SMALL SIGN SUPPORTS (1)

STOP AHEAD

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	REMOVAL PLAN	SHEET 35	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021051-RP.DWG
LAYOUT NAME - 03

PLOT DATE : 7/15/2026 3:32 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

2

N

REMOVAL LEGEND:

- CLEARING AND GRUBBING
- EXISTING R/W
- EXISTING PROPERTY LINE
- PROPOSED R/W
- PROPOSED TLE
- PROPOSED PLE
- SLOPE INTERCEPTS

REMOVING SMALL CULVERT PIPES (1)

REMOVING SMALL CULVERT PIPES (1)

REMOVING CONCRETE PAVEMENT (10 SY)

REMOVING SIGNS TYPE II (1)
REMOVING SMALL SIGN SUPPORTS (1)

REMOVING SIGNS TYPE II (1)
REMOVING SMALL SIGN SUPPORTS (1)

REMOVING SIGNS TYPE II (1)
REMOVING SMALL SIGN SUPPORTS (1)

REMOVING SIGNS TYPE II (1)
REMOVING SMALL SIGN SUPPORTS (1)

REMOVING SIGNS TYPE II (1)
REMOVING SMALL SIGN SUPPORTS (1)

REMOVING SMALL CULVERT PIPES (1)

COOPER RD

101'NB'

95'NB'

94'NB'

93RD ST

83'EB'

84'EB'

91'EB'

92'EB'

93'EB'

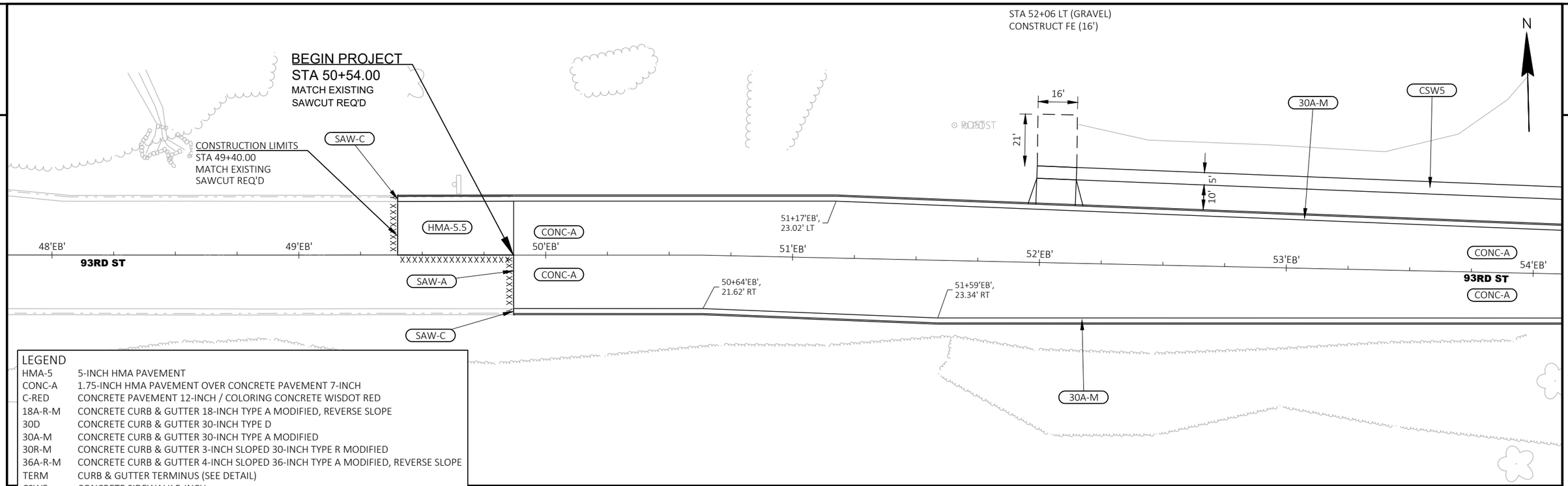
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	REMOVAL PLAN	SHEET 36	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021051-RP.DWG
LAYOUT NAME - 04

PLOT DATE : 7/15/2026 3:32 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

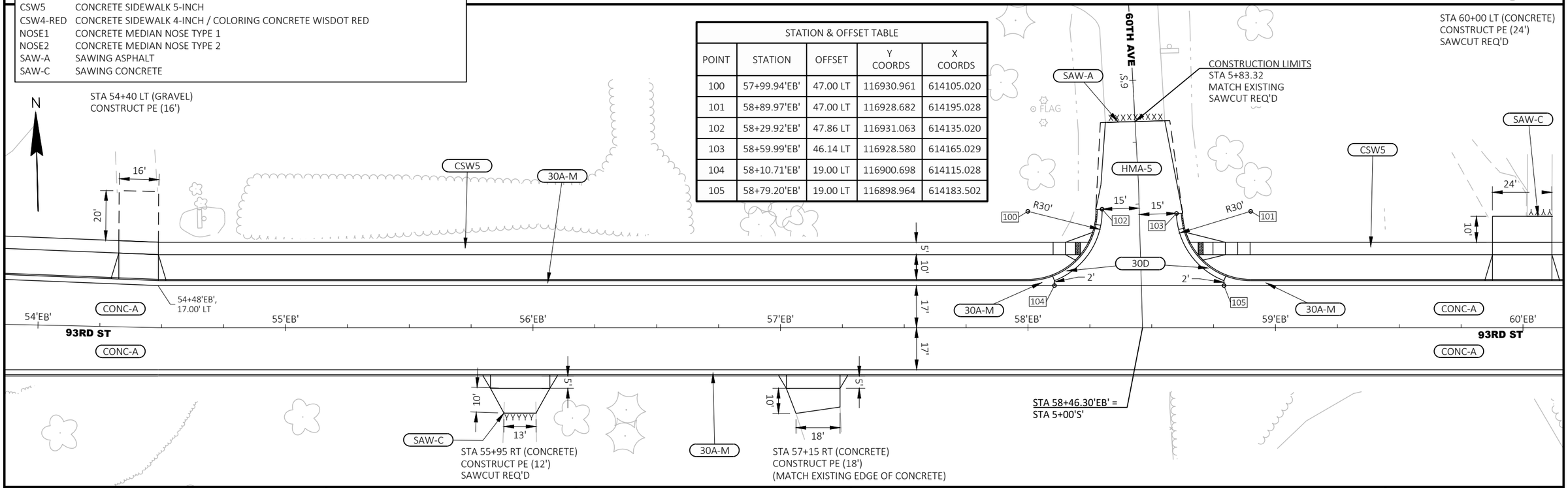
WISDOT/CADDS SHEET 44

2



LEGEND	
HMA-5	5-INCH HMA PAVEMENT
CONC-A	1.75-INCH HMA PAVEMENT OVER CONCRETE PAVEMENT 7-INCH
C-RED	CONCRETE PAVEMENT 12-INCH / COLORING CONCRETE WISDOT RED
18A-R-M	CONCRETE CURB & GUTTER 18-INCH TYPE A MODIFIED, REVERSE SLOPE
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
30A-M	CONCRETE CURB & GUTTER 30-INCH TYPE A MODIFIED
30R-M	CONCRETE CURB & GUTTER 3-INCH SLOPED 30-INCH TYPE R MODIFIED
36A-R-M	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A MODIFIED, REVERSE SLOPE
TERM	CURB & GUTTER TERMINUS (SEE DETAIL)
CSW5	CONCRETE SIDEWALK 5-INCH
CSW4-RED	CONCRETE SIDEWALK 4-INCH / COLORING CONCRETE WISDOT RED
NOSE1	CONCRETE MEDIAN NOSE TYPE 1
NOSE2	CONCRETE MEDIAN NOSE TYPE 2
SAW-A	SAWING ASPHALT
SAW-C	SAWING CONCRETE

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
100	57+99.94'EB'	47.00 LT	116930.961	614105.020
101	58+89.97'EB'	47.00 LT	116928.682	614195.028
102	58+29.92'EB'	47.86 LT	116931.063	614135.020
103	58+59.99'EB'	46.14 LT	116928.580	614165.029
104	58+10.71'EB'	19.00 LT	116900.698	614115.028
105	58+79.20'EB'	19.00 LT	116898.964	614183.502



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN DETAILS	SHEET 37	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021101-PD.DWG
LAYOUT NAME - 01
PLOT DATE : 7/28/2026 3:56 PM
PLOT BY : KUSCHEL, LEVI
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

2

STA 62+14 LT (ASPHALT)
CONSTRUCT PE (12')
SAWCUT REQ'D

STA 63+11 LT (GRAVEL)
CONSTRUCT PE (20')

SAW-C
30A-M
CSW5
12'
SAW-A
20'
30A-M
CSW5
5'
5'
5'
6'
10'
17'
17'
CONC-A
60'EB'
61'EB'
62'EB'
63'EB'
64'EB'
65'EB'
66'EB'
93RD ST
CONC-A
65+81'EB',
17.00' LT
CONC-A
65+81'EB',
17.00' RT
93RD ST
CONC-A
30A-M

LEGEND	
HMA-5	5-INCH HMA PAVEMENT
CONC-A	1.75-INCH HMA PAVEMENT OVER CONCRETE PAVEMENT 7-INCH
C-RED	CONCRETE PAVEMENT 12-INCH / COLORING CONCRETE WISDOT RED
18A-R-M	CONCRETE CURB & GUTTER 18-INCH TYPE A MODIFIED, REVERSE SLOPE
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
30A-M	CONCRETE CURB & GUTTER 30-INCH TYPE A MODIFIED
30R-M	CONCRETE CURB & GUTTER 3-INCH SLOPED 30-INCH TYPE R MODIFIED
36A-R-M	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A MODIFIED, REVERSE SLOPE
TERM	CURB & GUTTER TERMINUS (SEE DETAIL)
CSW5	CONCRETE SIDEWALK 5-INCH
CSW4-RED	CONCRETE SIDEWALK 4-INCH / COLORING CONCRETE WISDOT RED
NOSE1	CONCRETE MEDIAN NOSE TYPE 1
NOSE2	CONCRETE MEDIAN NOSE TYPE 2
SAW-A	SAWING ASPHALT
SAW-C	SAWING CONCRETE

STA 66+33 LT (ASPHALT)
CONSTRUCT PE (18')
SAWCUT REQ'D

STA 69+92 LT (CONCRETE)
CONSTRUCT PE (12')
SAWCUT REQ'D

STA 71+44 LT (GRAVEL)
CONSTRUCT FE (12')

11'IP'
INGRAM PARK RD
CSW5
18'
SAW-A
30A-M
TERM
12'
6'
10'
15'
10'
15'
CONC-A
66'EB'
66+44'EB',
20.00' LT
66+44'EB',
20.00' RT
67'EB'
30A-M
18A-R-M
SAW-A
CONSTRUCTION LIMITS
STA 10+61.65'IP'
MATCH EXISTING
SAWCUT REQ'D
TERM
HMA-5
STA 67+27.30'EB' =
STA 10+00'IP'
18A-R-M
CSW5
6'
10'
15'
10'
15'
68+14'EB',
20.00' LT
68+14'EB',
20.00' RT
CONC-A
CONC-A
68+77'EB',
17.00' LT
68+77'EB',
17.00' RT
69'EB'
30A-M
SAW-C
9'
5'
5'
6'
10'
17'
17'
30A-M
12'
9'
CSW5
CONC-A
70'EB'
71'EB'
72'EB'
93RD ST
CONC-A
N
SECTION CORNER MONUMENT
(SW SEC. 14, T1N, R22E)

SEE FOLLOWING SHEET FOR
ADDITIONAL GEOMETRIC DETAIL

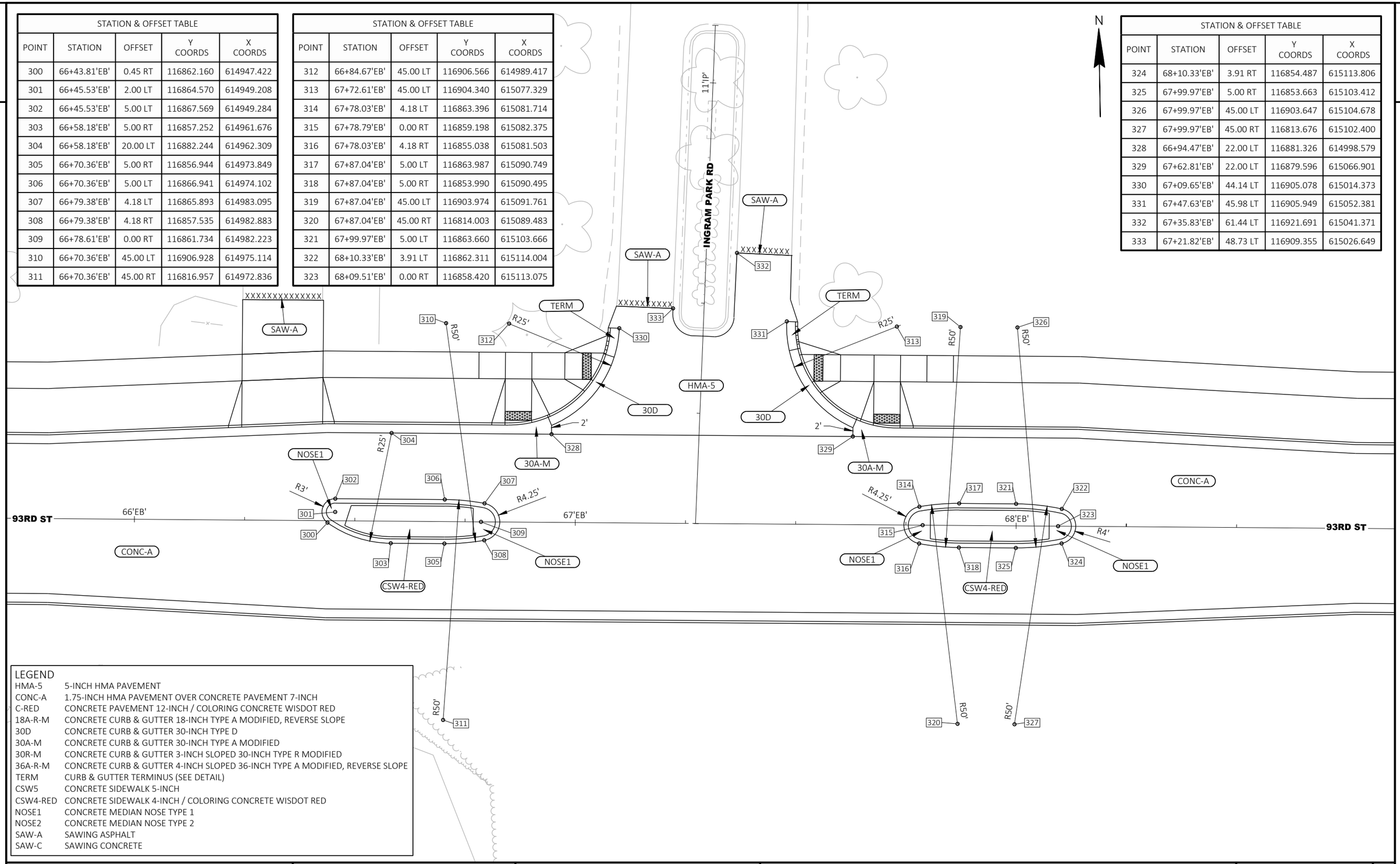
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN DETAILS	SHEET 38	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021101-PD.DWG
LAYOUT NAME - 02
PLOT DATE : 7/28/2026 3:56 PM
PLOT BY : KUSCHEL, LEVI
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
300	66+43.81'EB'	0.45 RT	116862.160	614947.422
301	66+45.53'EB'	2.00 LT	116864.570	614949.208
302	66+45.53'EB'	5.00 LT	116867.569	614949.284
303	66+58.18'EB'	5.00 RT	116857.252	614961.676
304	66+58.18'EB'	20.00 LT	116882.244	614962.309
305	66+70.36'EB'	5.00 RT	116856.944	614973.849
306	66+70.36'EB'	5.00 LT	116866.941	614974.102
307	66+79.38'EB'	4.18 LT	116865.893	614983.095
308	66+79.38'EB'	4.18 RT	116857.535	614982.883
309	66+78.61'EB'	0.00 RT	116861.734	614982.223
310	66+70.36'EB'	45.00 LT	116906.928	614975.114
311	66+70.36'EB'	45.00 RT	116816.957	614972.836

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
312	66+84.67'EB'	45.00 LT	116906.566	614989.417
313	67+72.61'EB'	45.00 LT	116904.340	615077.329
314	67+78.03'EB'	4.18 LT	116863.396	615081.714
315	67+78.79'EB'	0.00 RT	116859.198	615082.375
316	67+78.03'EB'	4.18 RT	116855.038	615081.503
317	67+87.04'EB'	5.00 LT	116863.987	615090.749
318	67+87.04'EB'	5.00 RT	116853.990	615090.495
319	67+87.04'EB'	45.00 LT	116903.974	615091.761
320	67+87.04'EB'	45.00 RT	116814.003	615089.483
321	67+99.97'EB'	5.00 LT	116863.660	615103.666
322	68+10.33'EB'	3.91 LT	116862.311	615114.004
323	68+09.51'EB'	0.00 RT	116858.420	615113.075

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
324	68+10.33'EB'	3.91 RT	116854.487	615113.806
325	67+99.97'EB'	5.00 RT	116853.663	615103.412
326	67+99.97'EB'	45.00 LT	116903.647	615104.678
327	67+99.97'EB'	45.00 RT	116813.676	615102.400
328	66+94.47'EB'	22.00 LT	116881.326	614998.579
329	67+62.81'EB'	22.00 LT	116879.596	615066.901
330	67+09.65'EB'	44.14 LT	116905.078	615014.373
331	67+47.63'EB'	45.98 LT	116905.949	615052.381
332	67+35.83'EB'	61.44 LT	116921.691	615041.371
333	67+21.82'EB'	48.73 LT	116909.355	615026.649



LEGEND	
HMA-5	5-INCH HMA PAVEMENT
CONC-A	1.75-INCH HMA PAVEMENT OVER CONCRETE PAVEMENT 7-INCH
C-RED	CONCRETE PAVEMENT 12-INCH / COLORING CONCRETE WISDOT RED
18A-R-M	CONCRETE CURB & GUTTER 18-INCH TYPE A MODIFIED, REVERSE SLOPE
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
30A-M	CONCRETE CURB & GUTTER 30-INCH TYPE A MODIFIED
30R-M	CONCRETE CURB & GUTTER 3-INCH SLOPED 30-INCH TYPE R MODIFIED
36A-R-M	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A MODIFIED, REVERSE SLOPE
TERM	CURB & GUTTER TERMINUS (SEE DETAIL)
CSW5	CONCRETE SIDEWALK 5-INCH
CSW4-RED	CONCRETE SIDEWALK 4-INCH / COLORING CONCRETE WISDOT RED
NOSE1	CONCRETE MEDIAN NOSE TYPE 1
NOSE2	CONCRETE MEDIAN NOSE TYPE 2
SAW-A	SAWING ASPHALT
SAW-C	SAWING CONCRETE

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN DETAILS - INGRAM PARK INTERSECTION	SHEET 39	E

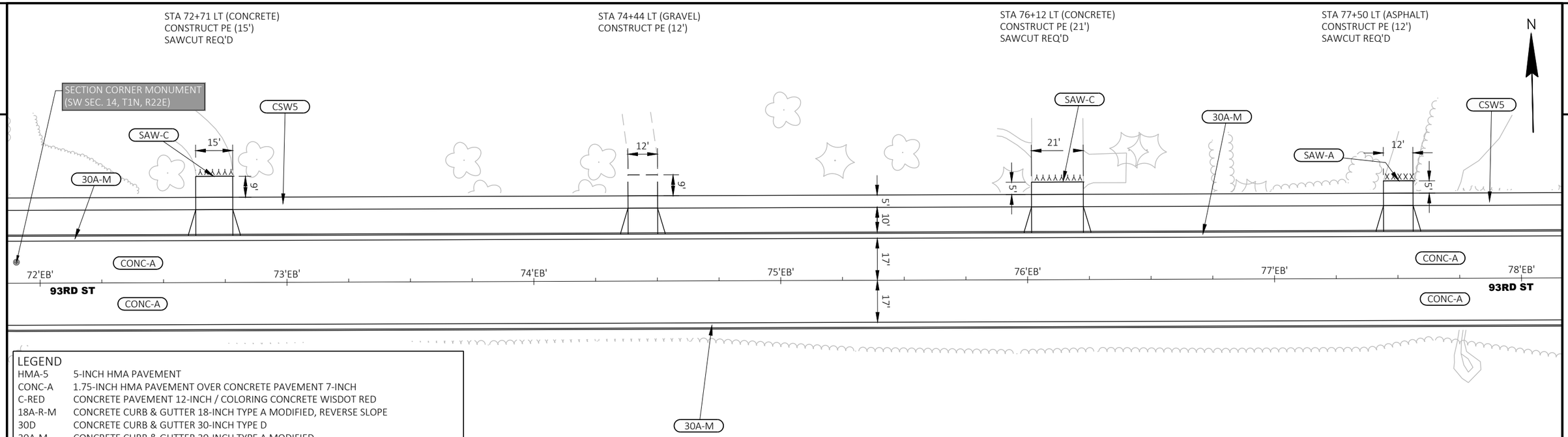
2

STA 72+71 LT (CONCRETE)
CONSTRUCT PE (15')
SAWCUT REQ'D

STA 74+44 LT (GRAVEL)
CONSTRUCT PE (12')

STA 76+12 LT (CONCRETE)
CONSTRUCT PE (21')
SAWCUT REQ'D

STA 77+50 LT (ASPHALT)
CONSTRUCT PE (12')
SAWCUT REQ'D



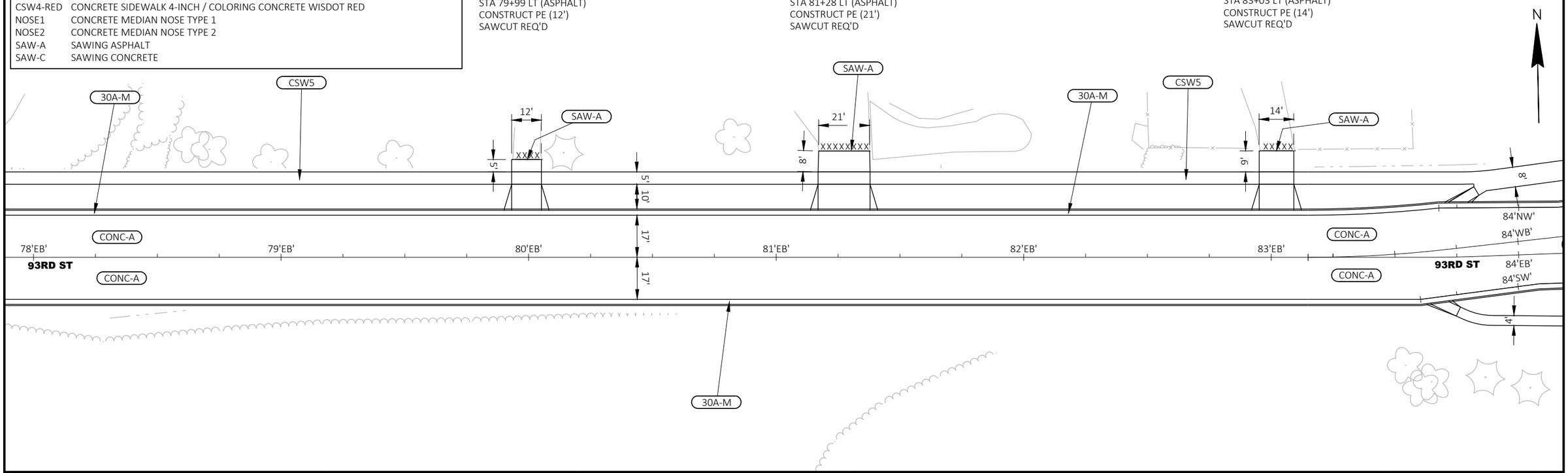
LEGEND

HMA-5	5-INCH HMA PAVEMENT
CONC-A	1.75-INCH HMA PAVEMENT OVER CONCRETE PAVEMENT 7-INCH
C-RED	CONCRETE PAVEMENT 12-INCH / COLORING CONCRETE WISDOT RED
18A-R-M	CONCRETE CURB & GUTTER 18-INCH TYPE A MODIFIED, REVERSE SLOPE
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
30A-M	CONCRETE CURB & GUTTER 30-INCH TYPE A MODIFIED
30R-M	CONCRETE CURB & GUTTER 3-INCH SLOPED 30-INCH TYPE R MODIFIED
36A-R-M	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A MODIFIED, REVERSE SLOPE
TERM	CURB & GUTTER TERMINUS (SEE DETAIL)
CSW5	CONCRETE SIDEWALK 5-INCH
CSW4-RED	CONCRETE SIDEWALK 4-INCH / COLORING CONCRETE WISDOT RED
NOSE1	CONCRETE MEDIAN NOSE TYPE 1
NOSE2	CONCRETE MEDIAN NOSE TYPE 2
SAW-A	SAWING ASPHALT
SAW-C	SAWING CONCRETE

STA 79+99 LT (ASPHALT)
CONSTRUCT PE (12')
SAWCUT REQ'D

STA 81+28 LT (ASPHALT)
CONSTRUCT PE (21')
SAWCUT REQ'D

STA 83+03 LT (ASPHALT)
CONSTRUCT PE (14')
SAWCUT REQ'D



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN DETAILS	SHEET 40	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021101-PD.DWG
LAYOUT NAME - 04

PLOT DATE : 7/28/2026 3:56 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

LEGEND	
HMA-5	5-INCH HMA PAVEMENT
CONC-A	1.75-INCH HMA PAVEMENT OVER CONCRETE PAVEMENT 7-INCH
C-RED	CONCRETE PAVEMENT 12-INCH / COLORING CONCRETE WISDOT RED
18A-R-M	CONCRETE CURB & GUTTER 18-INCH TYPE A MODIFIED, REVERSE SLOPE
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
30A-M	CONCRETE CURB & GUTTER 30-INCH TYPE A MODIFIED
30R-M	CONCRETE CURB & GUTTER 3-INCH SLOPED 30-INCH TYPE R MODIFIED
36A-R-M	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A MODIFIED, REVERSE SLOPE
TERM	CURB & GUTTER TERMINUS (SEE DETAIL)
CSW5	CONCRETE SIDEWALK 5-INCH
CSW4-RED	CONCRETE SIDEWALK 4-INCH / COLORING CONCRETE WISDOT RED
NOSE1	CONCRETE MEDIAN NOSE TYPE 1
NOSE2	CONCRETE MEDIAN NOSE TYPE 2
SAW-A	SAWING ASPHALT
SAW-C	SAWING CONCRETE

CONSTRUCTION LIMITS
STA 101+62.31'NB'
MATCH EXISTING
SAWCUT REQ'D

STA 101+14'SB' LT (ASPHALT)
CONSTRUCT PE (12')
SAWCUT REQ'D

STA 100+75'SB' LT (ASPHALT)
CONSTRUCT PE (12')
SAWCUT REQ'D

STA 91+28'WB', LT (ASPHALT)
CONSTRUCT PE (21')
(MATCH EXISTING CONCRETE EDGE)

END PROJECT
STA 93+31.90'EB'
MATCH EXISTING
SAWCUT REQ'D

STA 94+17'SB' LT (GRAVEL)
CONSTRUCT PE (18')

CONSTRUCTION LIMITS
STA 93+85.00 NB
MATCH EXISTING
SAWCUT REQ'D

SEE FOLLOWING SHEETS FOR
ADDITIONAL GEOMETRIC DETAIL

COOPER RD

93RD ST

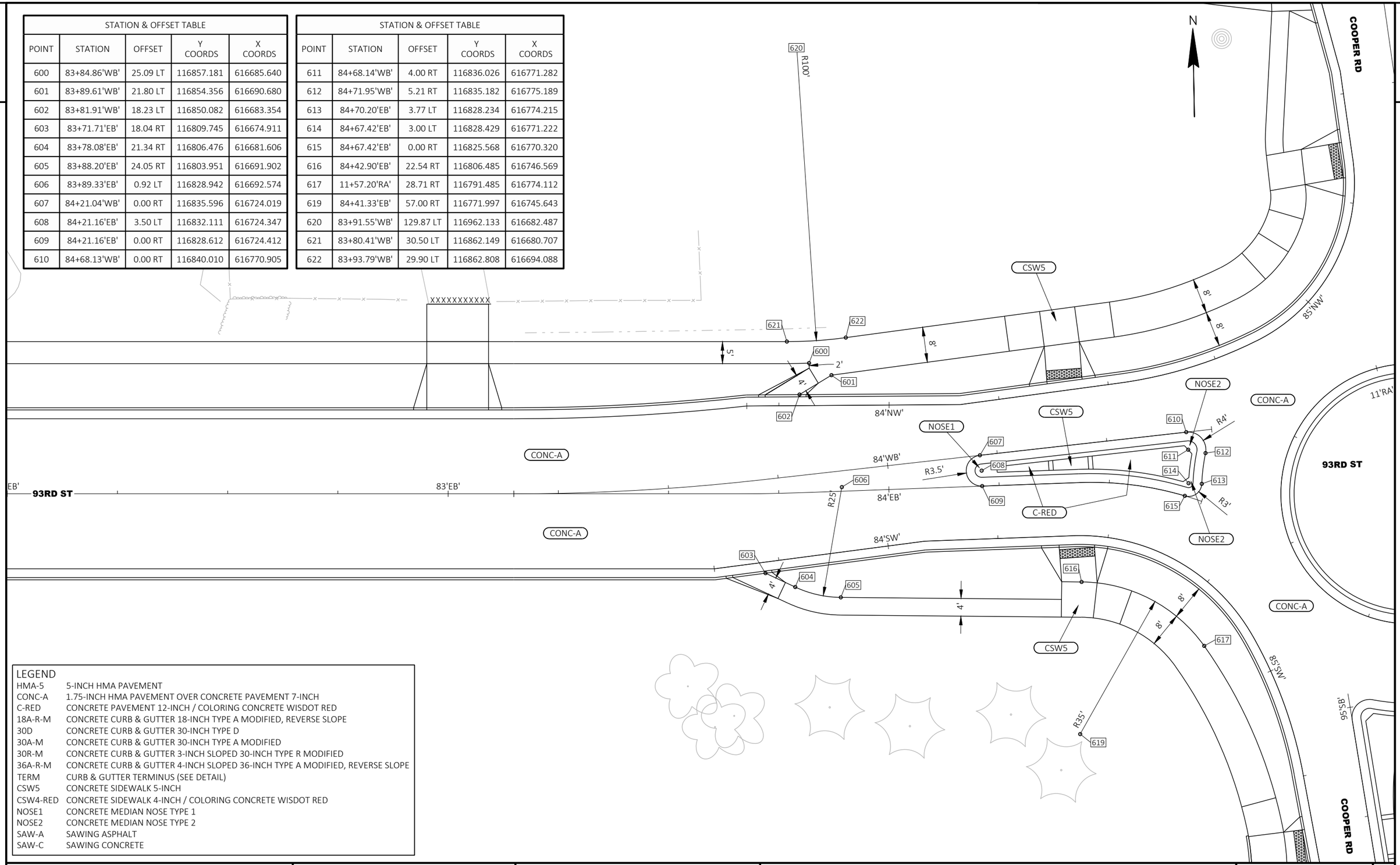
⊙ WELL

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN DETAILS - ROUNDABOUT	SHEET 41	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021101-PD.DWG
LAYOUT NAME - - ROUNDABOUT
PLOT DATE : 7/28/2026 3:57 PM
PLOT BY : KUSCHEL, LEVI
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
600	83+84.86'WB'	25.09 LT	116857.181	616685.640
601	83+89.61'WB'	21.80 LT	116854.356	616690.680
602	83+81.91'WB'	18.23 LT	116850.082	616683.354
603	83+71.71'EB'	18.04 RT	116809.745	616674.911
604	83+78.08'EB'	21.34 RT	116806.476	616681.606
605	83+88.20'EB'	24.05 RT	116803.951	616691.902
606	83+89.33'EB'	0.92 LT	116828.942	616692.574
607	84+21.04'WB'	0.00 RT	116835.596	616724.019
608	84+21.16'EB'	3.50 LT	116832.111	616724.347
609	84+21.16'EB'	0.00 RT	116828.612	616724.412
610	84+68.13'WB'	0.00 RT	116840.010	616770.905

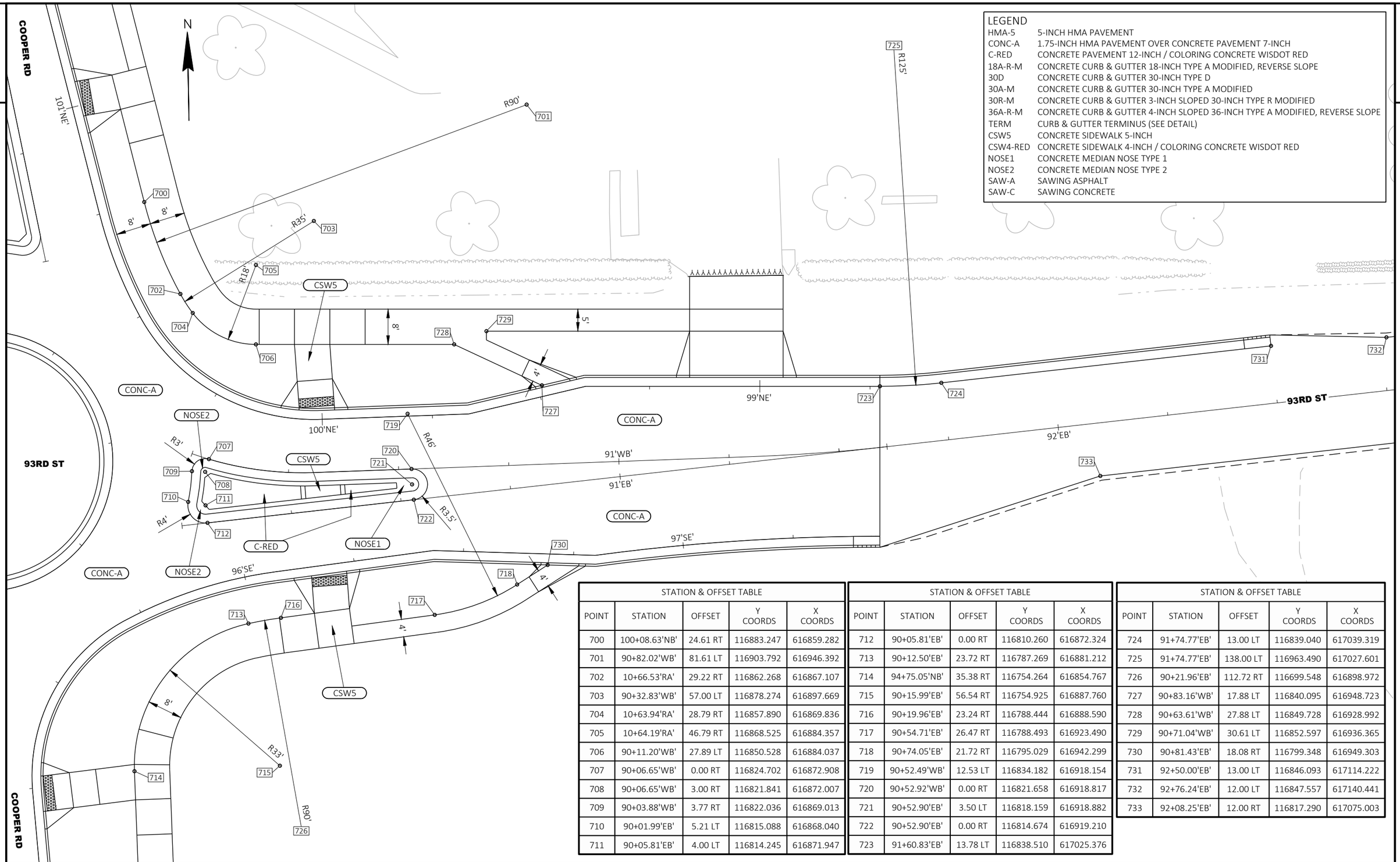
STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
611	84+68.14'WB'	4.00 RT	116836.026	616771.282
612	84+71.95'WB'	5.21 RT	116835.182	616775.189
613	84+70.20'EB'	3.77 LT	116828.234	616774.215
614	84+67.42'EB'	3.00 LT	116828.429	616771.222
615	84+67.42'EB'	0.00 RT	116825.568	616770.320
616	84+42.90'EB'	22.54 RT	116806.485	616746.569
617	11+57.20'RA'	28.71 RT	116791.485	616774.112
619	84+41.33'EB'	57.00 RT	116771.997	616745.643
620	83+91.55'WB'	129.87 LT	116962.133	616682.487
621	83+80.41'WB'	30.50 LT	116862.149	616680.707
622	83+93.79'WB'	29.90 LT	116862.808	616694.088



LEGEND	
HMA-5	5-INCH HMA PAVEMENT
CONC-A	1.75-INCH HMA PAVEMENT OVER CONCRETE PAVEMENT 7-INCH
C-RED	CONCRETE PAVEMENT 12-INCH / COLORING CONCRETE WISDOT RED
18A-R-M	CONCRETE CURB & GUTTER 18-INCH TYPE A MODIFIED, REVERSE SLOPE
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
30A-M	CONCRETE CURB & GUTTER 30-INCH TYPE A MODIFIED
30R-M	CONCRETE CURB & GUTTER 3-INCH SLOPED 30-INCH TYPE R MODIFIED
36A-R-M	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A MODIFIED, REVERSE SLOPE
TERM	CURB & GUTTER TERMINUS (SEE DETAIL)
CSW5	CONCRETE SIDEWALK 5-INCH
CSW4-RED	CONCRETE SIDEWALK 4-INCH / COLORING CONCRETE WISDOT RED
NOSE1	CONCRETE MEDIAN NOSE TYPE 1
NOSE2	CONCRETE MEDIAN NOSE TYPE 2
SAW-A	SAWING ASPHALT
SAW-C	SAWING CONCRETE

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN DETAILS - ROUNDABOUT WEST LEG	SHEET 42	E

2



LEGEND	
HMA-5	5-INCH HMA PAVEMENT
CONC-A	1.75-INCH HMA PAVEMENT OVER CONCRETE PAVEMENT 7-INCH
C-RED	CONCRETE PAVEMENT 12-INCH / COLORING CONCRETE WISDOT RED
18A-R-M	CONCRETE CURB & GUTTER 18-INCH TYPE A MODIFIED, REVERSE SLOPE
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
30A-M	CONCRETE CURB & GUTTER 30-INCH TYPE A MODIFIED
30R-M	CONCRETE CURB & GUTTER 3-INCH SLOPED 30-INCH TYPE R MODIFIED
36A-R-M	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A MODIFIED, REVERSE SLOPE
TERM	CURB & GUTTER TERMINUS (SEE DETAIL)
CSW5	CONCRETE SIDEWALK 5-INCH
CSW4-RED	CONCRETE SIDEWALK 4-INCH / COLORING CONCRETE WISDOT RED
NOSE1	CONCRETE MEDIAN NOSE TYPE 1
NOSE2	CONCRETE MEDIAN NOSE TYPE 2
SAW-A	SAWING ASPHALT
SAW-C	SAWING CONCRETE

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
700	100+08.63'NB'	24.61 RT	116883.247	616859.282
701	90+82.02'WB'	81.61 LT	116903.792	616946.392
702	10+66.53'RA'	29.22 RT	116862.268	616867.107
703	90+32.83'WB'	57.00 LT	116878.274	616897.669
704	10+63.94'RA'	28.79 RT	116857.890	616869.836
705	10+64.19'RA'	46.79 RT	116868.525	616884.357
706	90+11.20'WB'	27.89 LT	116850.528	616884.037
707	90+06.65'WB'	0.00 RT	116824.702	616872.908
708	90+06.65'WB'	3.00 RT	116821.841	616872.007
709	90+03.88'WB'	3.77 RT	116822.036	616869.013
710	90+01.99'EB'	5.21 LT	116815.088	616868.040
711	90+05.81'EB'	4.00 LT	116814.245	616871.947

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
712	90+05.81'EB'	0.00 RT	116810.260	616872.324
713	90+12.50'EB'	23.72 RT	116787.269	616881.212
714	94+75.05'NB'	35.38 RT	116754.264	616854.767
715	90+15.99'EB'	56.54 RT	116754.925	616887.760
716	90+19.96'EB'	23.24 RT	116788.444	616888.590
717	90+54.71'EB'	26.47 RT	116788.493	616923.490
718	90+74.05'EB'	21.72 RT	116795.029	616942.299
719	90+52.49'WB'	12.53 LT	116834.182	616918.154
720	90+52.92'WB'	0.00 RT	116821.658	616918.817
721	90+52.90'EB'	3.50 LT	116818.159	616918.882
722	90+52.90'EB'	0.00 RT	116814.674	616919.210
723	91+60.83'EB'	13.78 LT	116838.510	617025.376

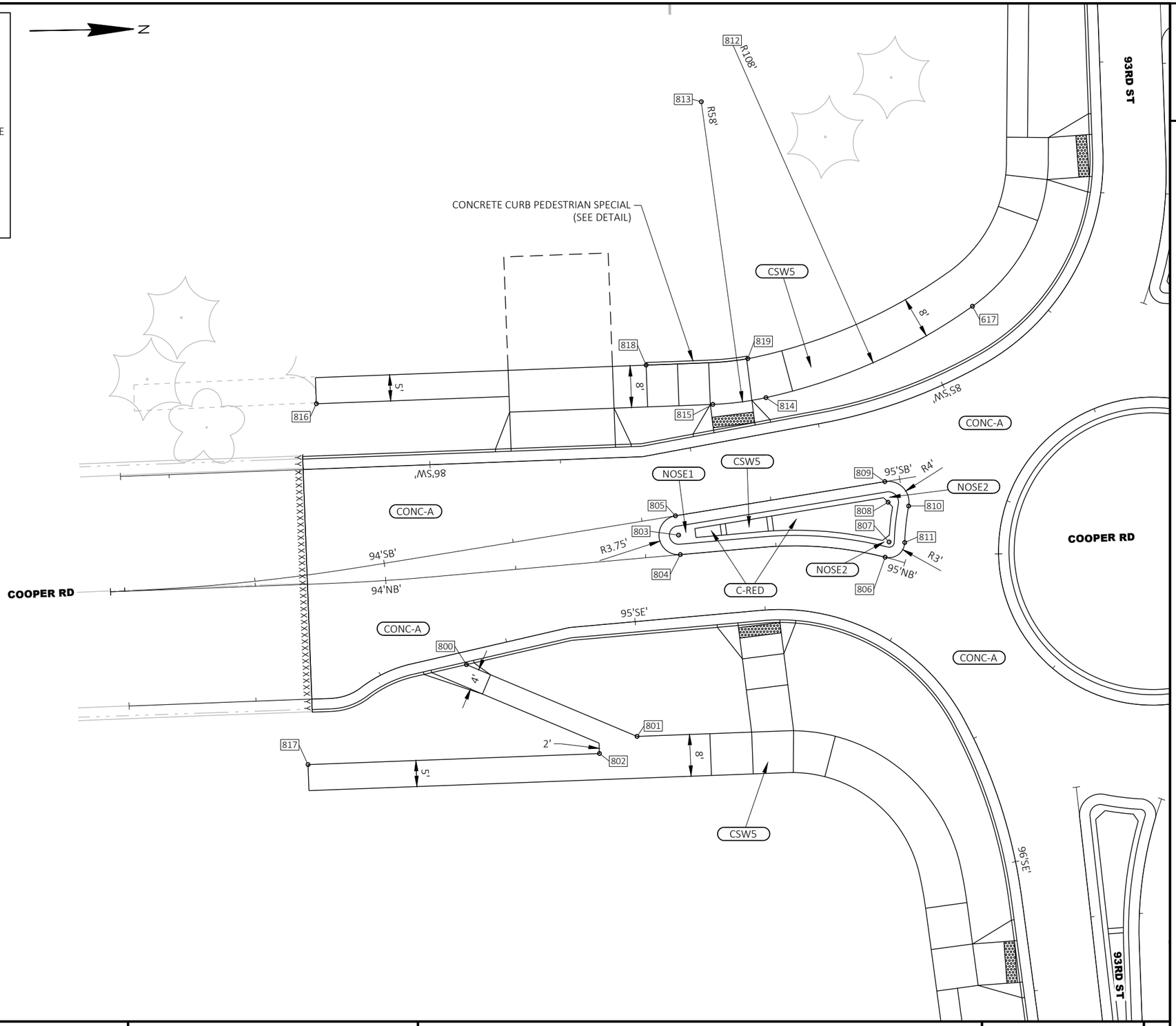
STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
724	91+74.77'EB'	13.00 LT	116839.040	617039.319
725	91+74.77'EB'	138.00 LT	116963.490	617027.601
726	90+21.96'EB'	112.72 RT	116699.548	616898.972
727	90+83.16'WB'	17.88 LT	116840.095	616948.723
728	90+63.61'WB'	27.88 LT	116849.728	616928.992
729	90+71.04'WB'	30.61 LT	116852.597	616936.365
730	90+81.43'EB'	18.08 RT	116799.348	616949.303
731	92+50.00'EB'	13.00 LT	116846.093	617114.222
732	92+76.24'EB'	12.00 LT	116847.557	617140.441
733	92+08.25'EB'	12.00 RT	116817.290	617075.003

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN DETAILS - ROUNDABOUT EAST LEG	SHEET 43	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021101-PD.DWG
LAYOUT NAME - - ROUNDABOUT EAST LEG
PLOT DATE : 7/28/2026 3:57 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 44

LEGEND	
HMA-5	5-INCH HMA PAVEMENT
CONC-A	1.75-INCH HMA PAVEMENT OVER CONCRETE PAVEMENT 7-INCH
C-RED	CONCRETE PAVEMENT 12-INCH / COLORING CONCRETE WISDOT RED
18A-R-M	CONCRETE CURB & GUTTER 18-INCH TYPE A MODIFIED, REVERSE SLOPE
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
30A-M	CONCRETE CURB & GUTTER 30-INCH TYPE A MODIFIED
30R-M	CONCRETE CURB & GUTTER 3-INCH SLOPED 30-INCH TYPE R MODIFIED
36A-R-M	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A MODIFIED, REVERSE SLOPE
TERM	CURB & GUTTER TERMINUS (SEE DETAIL)
CSW5	CONCRETE SIDEWALK 5-INCH
CSW4-RED	CONCRETE SIDEWALK 4-INCH / COLORING CONCRETE WISDOT RED
NOSE1	CONCRETE MEDIAN NOSE TYPE 1
NOSE2	CONCRETE MEDIAN NOSE TYPE 2
SAW-A	SAWING ASPHALT
SAW-C	SAWING CONCRETE

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
617	11+57.20'RA'	28.71 RT	116791.485	616774.112
800	94+13.96'NB'	17.33 RT	116693.398	616841.003
801	94+45.27'NB'	33.94 RT	116725.815	616855.337
802	94+37.81'NB'	36.56 RT	116718.557	616858.483
803	94+56.62'NB'	3.75 LT	116734.439	616816.934
804	94+56.62'NB'	0.00 RT	116734.707	616820.674
805	94+56.47'SB'	0.00 RT	116733.900	616813.223
806	94+96.09'NB'	0.00 RT	116773.912	616821.859
807	94+96.09'NB'	3.00 LT	116774.705	616818.966
808	94+97.09'SB'	4.00 RT	116774.668	616811.350
809	94+97.09'SB'	0.00 RT	116774.094	616807.392
810	95+00.85'SB'	5.35 RT	116778.588	616812.147
811	94+98.87'NB'	3.70 LT	116777.700	616819.123
812	94+71.50'SB'	127.39 LT	116730.480	616684.992
813	94+74.15'SB'	77.46 LT	116740.273	616734.024
814	94+77.23'SB'	19.55 LT	116751.633	616790.900
815	94+66.97'SB'	19.91 LT	116741.435	616792.012
816	93+91.67'SB'	32.24 LT	116665.553	616790.532
817	93+80.81'SB'	36.03 RT	116662.718	616859.601
818	94+55.59'SB'	29.39 LT	116728.805	616784.263
819	94+75.00'SB'	27.47 LT	116748.292	616783.377



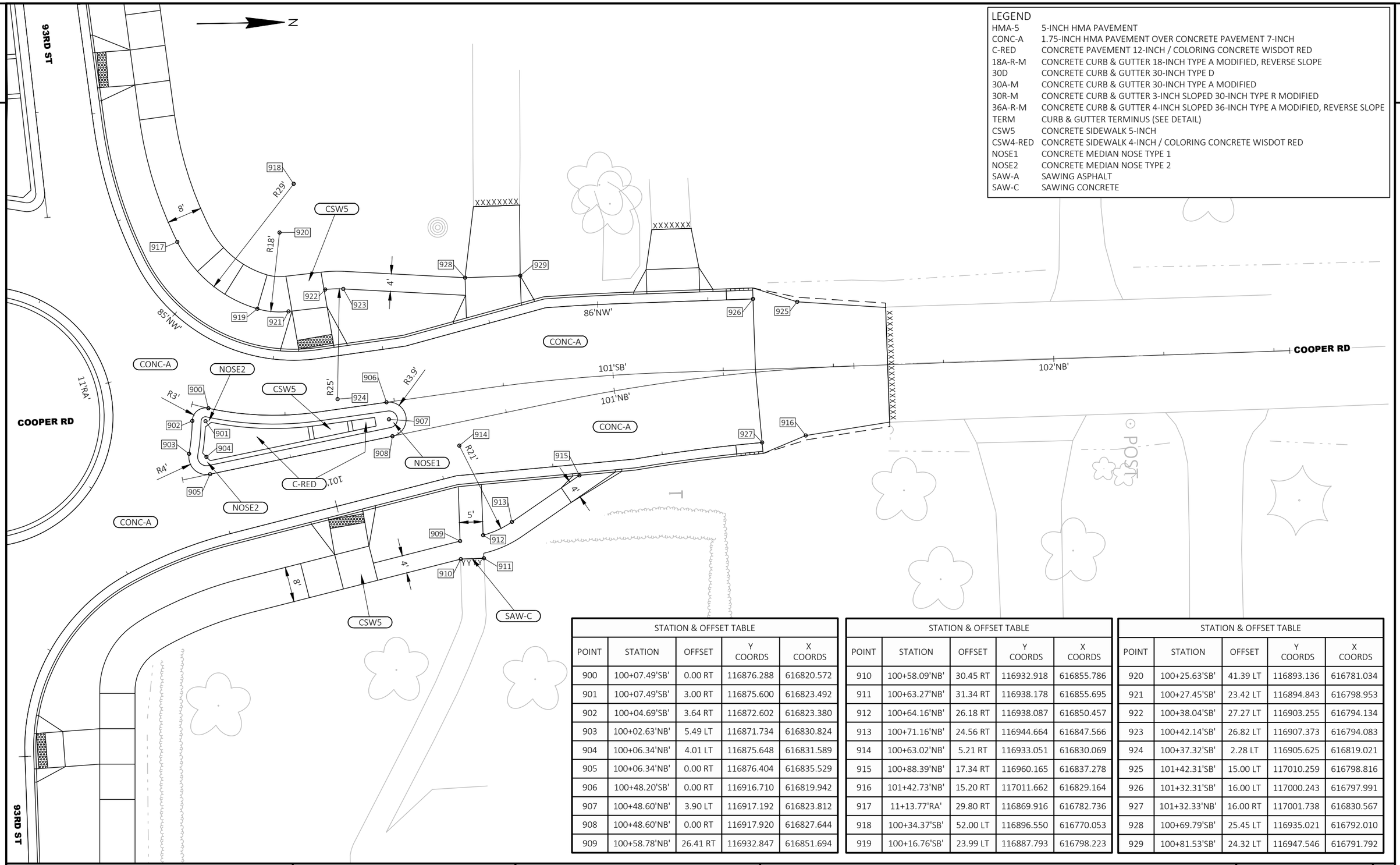
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN DETAILS - ROUNDABOUT SOUTH LEG	SHEET 44	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021101-PD.DWG
LAYOUT NAME - - ROUNDABOUT SOUTH LEG

PLOT DATE : 7/28/2026 3:57 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 44

2



LEGEND

HMA-5	5-INCH HMA PAVEMENT
CONC-A	1.75-INCH HMA PAVEMENT OVER CONCRETE PAVEMENT 7-INCH
C-RED	CONCRETE PAVEMENT 12-INCH / COLORING CONCRETE WISDOT RED
18A-R-M	CONCRETE CURB & GUTTER 18-INCH TYPE A MODIFIED, REVERSE SLOPE
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
30A-M	CONCRETE CURB & GUTTER 30-INCH TYPE A MODIFIED
30R-M	CONCRETE CURB & GUTTER 3-INCH SLOPED 30-INCH TYPE R MODIFIED
36A-R-M	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A MODIFIED, REVERSE SLOPE
TERM	CURB & GUTTER TERMINUS (SEE DETAIL)
CSW5	CONCRETE SIDEWALK 5-INCH
CSW4-RED	CONCRETE SIDEWALK 4-INCH / COLORING CONCRETE WISDOT RED
NOSE1	CONCRETE MEDIAN NOSE TYPE 1
NOSE2	CONCRETE MEDIAN NOSE TYPE 2
SAW-A	SAWING ASPHALT
SAW-C	SAWING CONCRETE

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS
900	100+07.49'SB'	0.00 RT	116876.288	616820.572
901	100+07.49'SB'	3.00 RT	116875.600	616823.492
902	100+04.69'SB'	3.64 RT	116872.602	616823.380
903	100+02.63'NB'	5.49 LT	116871.734	616830.824
904	100+06.34'NB'	4.01 LT	116875.648	616831.589
905	100+06.34'NB'	0.00 RT	116876.404	616835.529
906	100+48.20'SB'	0.00 RT	116916.710	616819.942
907	100+48.60'NB'	3.90 LT	116917.192	616823.812
908	100+48.60'NB'	0.00 RT	116917.920	616827.644
909	100+58.78'NB'	26.41 RT	116932.847	616851.694

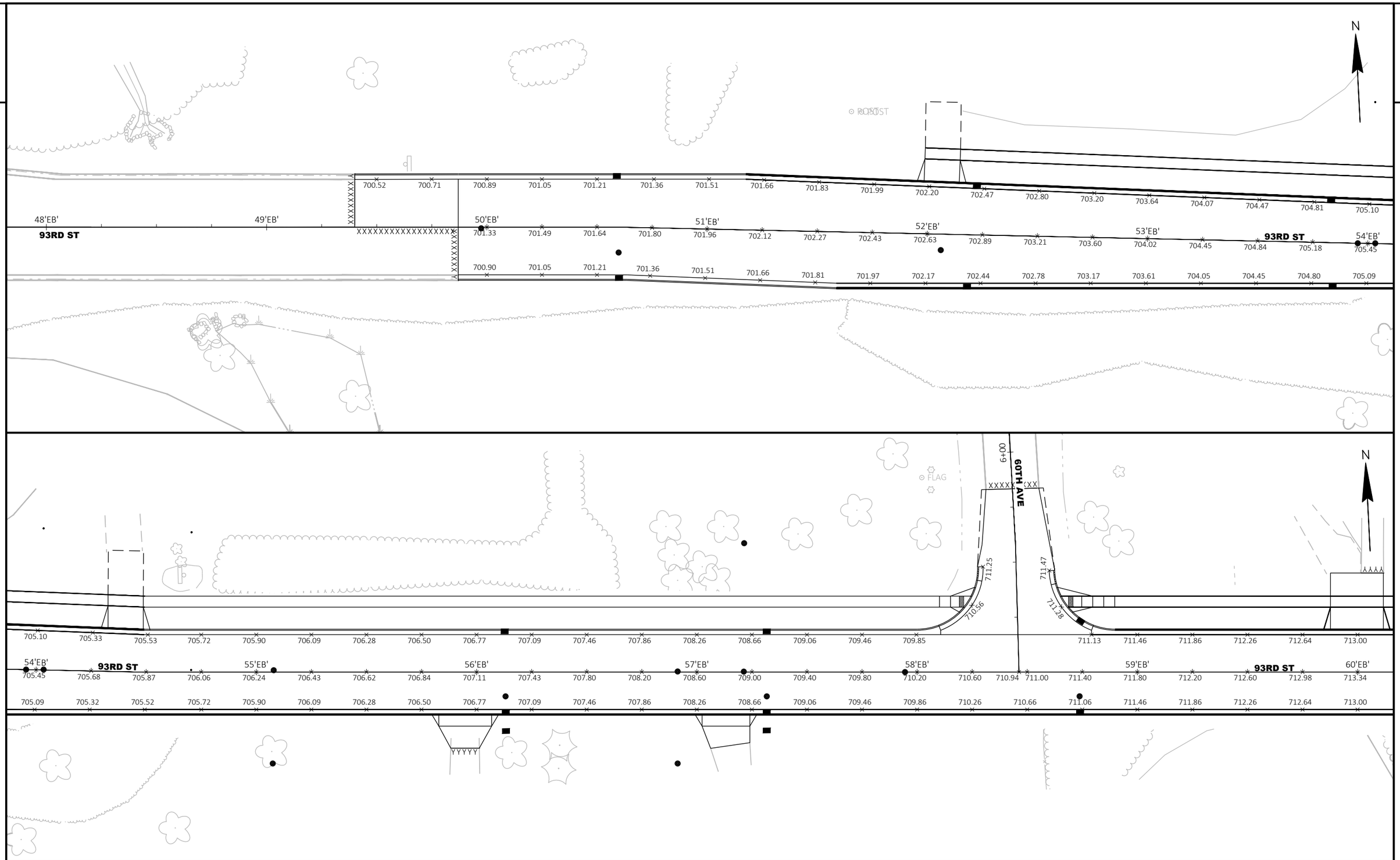
STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS
910	100+58.09'NB'	30.45 RT	116932.918	616855.786
911	100+63.27'NB'	31.34 RT	116938.178	616855.695
912	100+64.16'NB'	26.18 RT	116938.087	616850.457
913	100+71.16'NB'	24.56 RT	116944.664	616847.566
914	100+63.02'NB'	5.21 RT	116933.051	616830.069
915	100+88.39'NB'	17.34 RT	116960.165	616837.278
916	101+42.73'NB'	15.20 RT	117011.662	616829.164
917	11+13.77'RA'	29.80 RT	116869.916	616782.736
918	100+34.37'SB'	52.00 LT	116896.550	616770.053
919	100+16.76'SB'	23.99 LT	116887.793	616798.223

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS
920	100+25.63'SB'	41.39 LT	116893.136	616781.034
921	100+27.45'SB'	23.42 LT	116894.843	616798.953
922	100+38.04'SB'	27.27 LT	116903.255	616794.134
923	100+42.14'SB'	26.82 LT	116907.373	616794.083
924	100+37.32'SB'	2.28 LT	116905.625	616819.021
925	101+42.31'SB'	15.00 LT	117010.259	616798.816
926	101+32.31'SB'	16.00 LT	117000.243	616797.991
927	101+32.33'NB'	16.00 RT	117001.738	616830.567
928	100+69.79'SB'	25.45 LT	116935.021	616792.010
929	100+81.53'SB'	24.32 LT	116947.546	616791.792

2

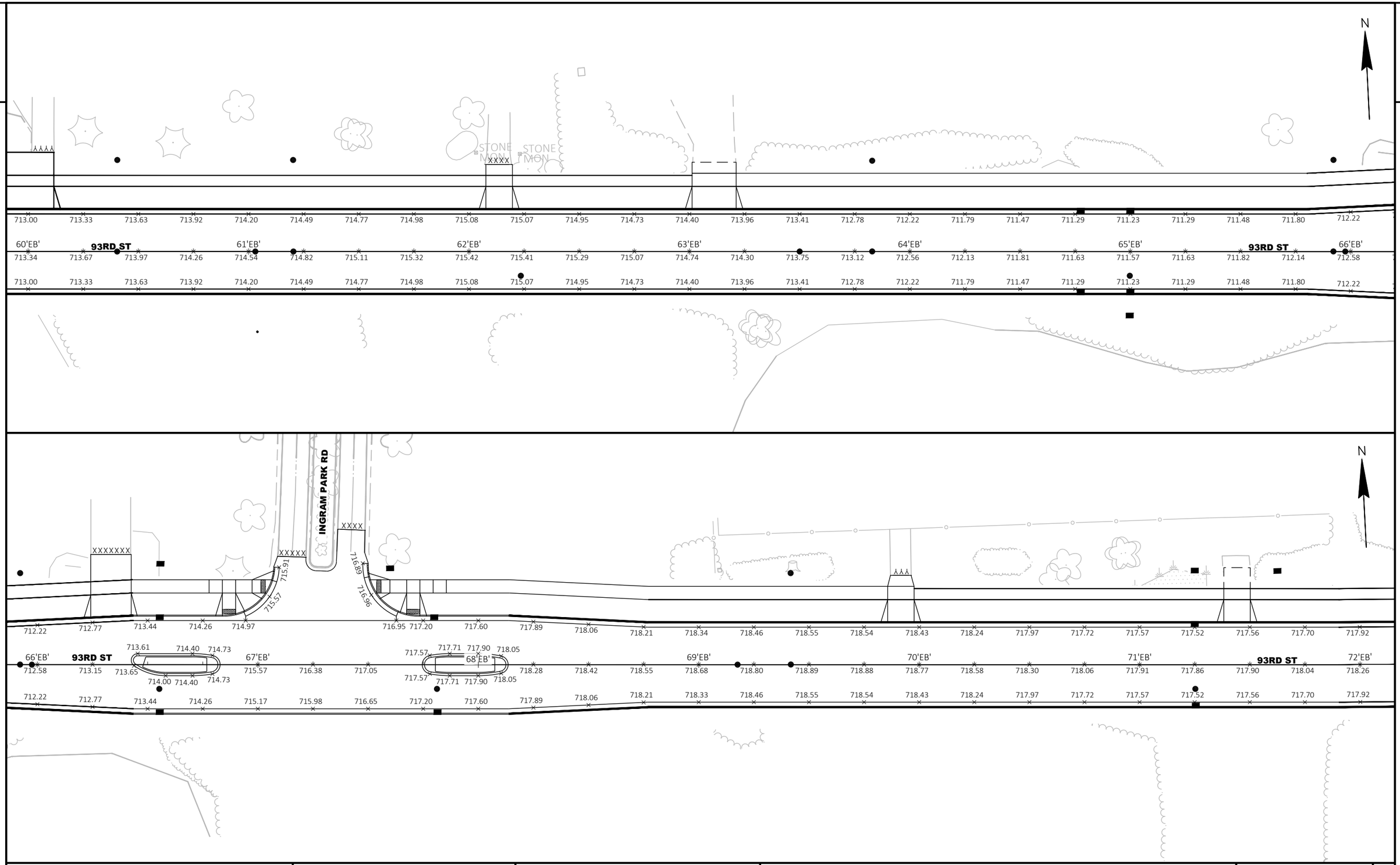


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PAVING GRADES	SHEET 46	E

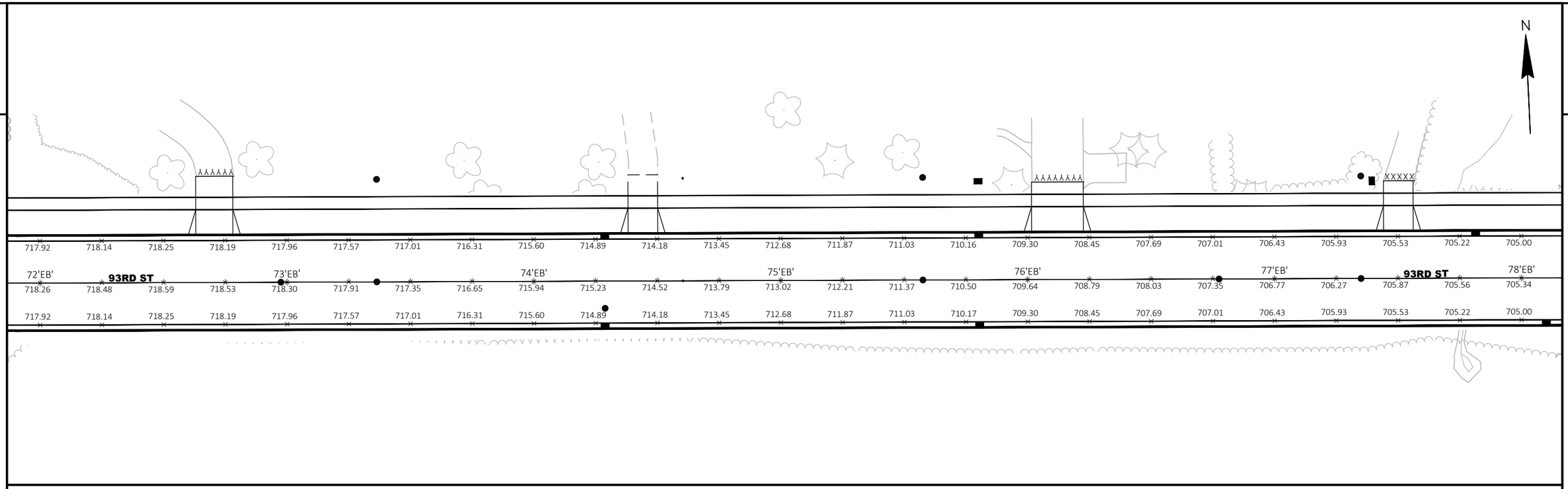
FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021201-PG.DWG
LAYOUT NAME - 01

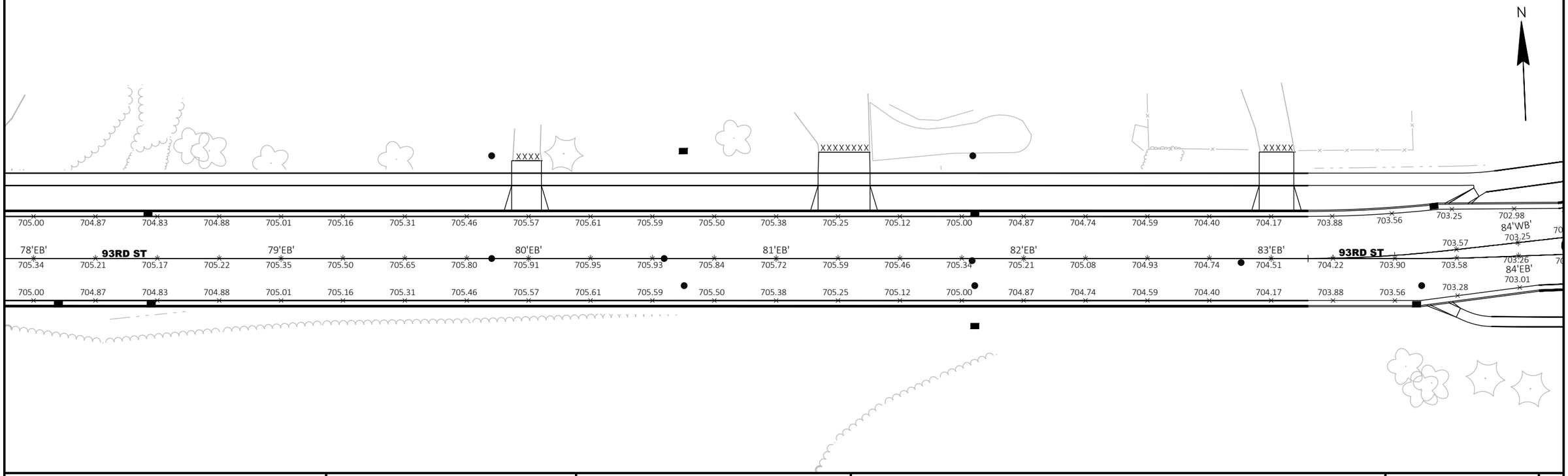
PLOT DATE : 7/16/2026 12:32 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PAVING GRADES	SHEET 47	E





PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PAVING GRADES	SHEET 48	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021201-PG.DWG
LAYOUT NAME - 03

PLOT DATE : 7/16/2026 12:32 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

COOPER RD

93RD ST

83'EB'

84'EB'

84'WB'

91'EB'

91'WB'

92'EB'

93'EB'

94'NB'

94'SB'

95'NB'

95'SB'

101'NB'

101'SB'

11'RA'

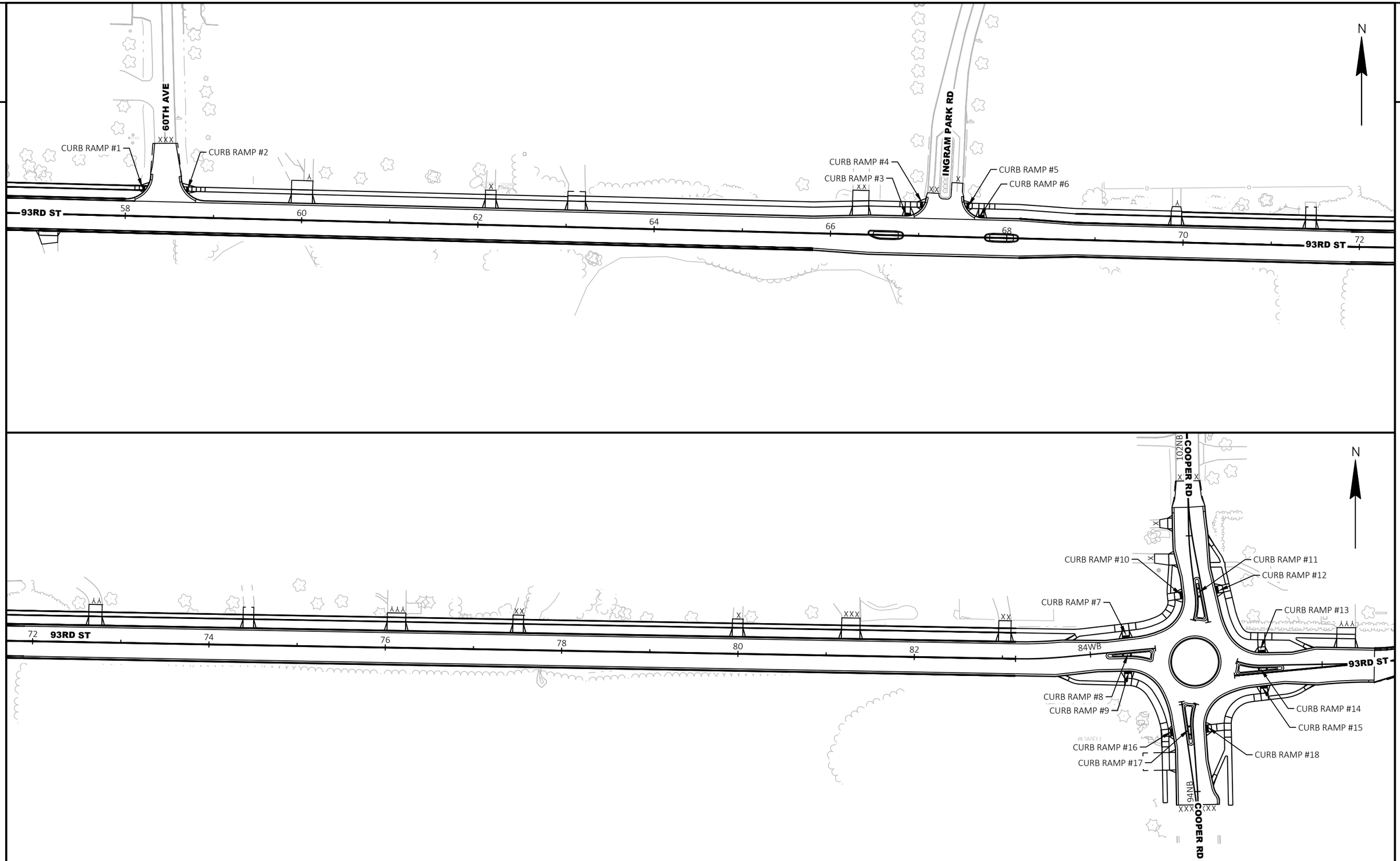
WELL

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PAVING GRADES	SHEET 49 E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021201-PG.DWG
LAYOUT NAME - 04

PLOT DATE : 7/16/2026 12:32 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

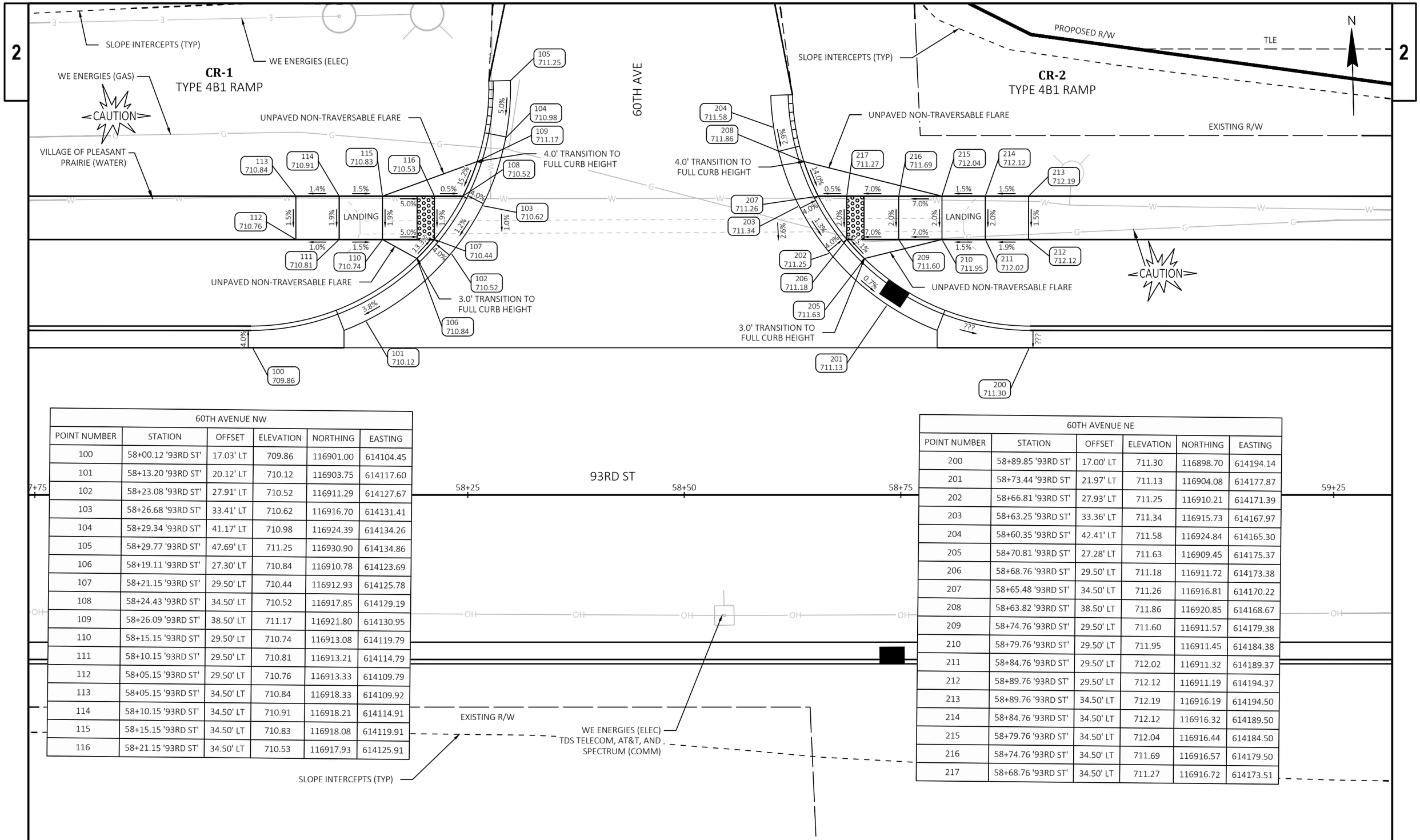
WISDOT/CADDS SHEET 44



2

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CURB RAMP OVERVIEW	SHEET 50	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021300-CR.DWG
LAYOUT NAME - 021300-cr
PLOT DATE : 7/16/2026 9:02 AM
PLOT BY : ISSELMANN, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



60TH AVENUE NW

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
100	58+00.12 '93RD ST'	17.03' LT	709.86	116901.00	614104.45
101	58+13.20 '93RD ST'	20.12' LT	710.12	116903.75	614117.60
102	58+23.08 '93RD ST'	27.91' LT	710.52	116911.29	614127.67
103	58+26.68 '93RD ST'	33.41' LT	710.62	116916.70	614131.41
104	58+29.34 '93RD ST'	41.17' LT	710.98	116924.39	614134.26
105	58+29.77 '93RD ST'	47.69' LT	711.25	116930.90	614134.86
106	58+19.11 '93RD ST'	27.30' LT	710.84	116910.78	614123.69
107	58+21.15 '93RD ST'	29.50' LT	710.44	116912.93	614125.78
108	58+24.43 '93RD ST'	34.50' LT	710.52	116917.85	614129.19
109	58+26.09 '93RD ST'	38.50' LT	711.17	116921.80	614130.95
110	58+15.15 '93RD ST'	29.50' LT	710.74	116913.08	614119.79
111	58+10.15 '93RD ST'	29.50' LT	710.81	116913.21	614114.79
112	58+05.15 '93RD ST'	29.50' LT	710.76	116913.33	614109.79
113	58+05.15 '93RD ST'	34.50' LT	710.84	116918.33	614109.92
114	58+10.15 '93RD ST'	34.50' LT	710.91	116918.21	614114.91
115	58+15.15 '93RD ST'	34.50' LT	710.83	116918.08	614119.91
116	58+21.15 '93RD ST'	34.50' LT	710.53	116917.93	614125.91

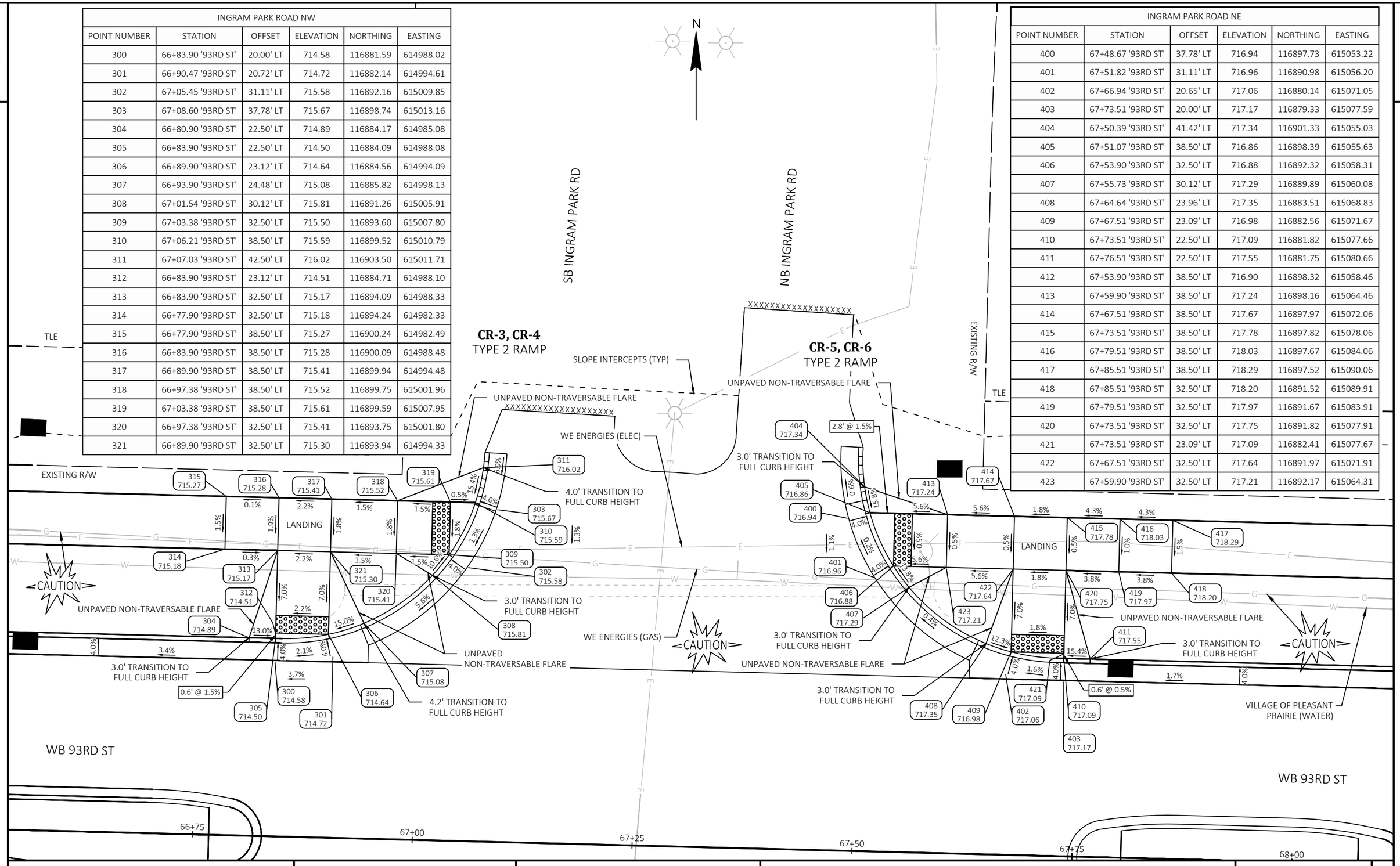
60TH AVENUE NE

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
200	58+89.85 '93RD ST'	17.00' LT	711.30	116898.70	614194.14
201	58+73.44 '93RD ST'	21.97' LT	711.13	116904.08	614177.87
202	58+66.81 '93RD ST'	27.93' LT	711.25	116910.21	614171.39
203	58+63.25 '93RD ST'	33.36' LT	711.34	116915.73	614167.97
204	58+60.35 '93RD ST'	42.41' LT	711.58	116924.84	614165.30
205	58+70.81 '93RD ST'	27.28' LT	711.63	116909.45	614175.37
206	58+68.76 '93RD ST'	29.50' LT	711.18	116911.72	614173.38
207	58+65.48 '93RD ST'	34.50' LT	711.26	116916.81	614170.22
208	58+63.82 '93RD ST'	38.50' LT	711.86	116920.85	614168.67
209	58+74.76 '93RD ST'	29.50' LT	711.60	116911.57	614179.38
210	58+79.76 '93RD ST'	29.50' LT	711.95	116911.45	614184.38
211	58+84.76 '93RD ST'	29.50' LT	712.02	116911.32	614189.37
212	58+89.76 '93RD ST'	29.50' LT	712.12	116911.19	614194.37
213	58+89.76 '93RD ST'	34.50' LT	712.19	116916.19	614194.50
214	58+84.76 '93RD ST'	34.50' LT	712.12	116916.32	614189.50
215	58+79.76 '93RD ST'	34.50' LT	712.04	116916.44	614184.50
216	58+74.76 '93RD ST'	34.50' LT	711.69	116916.57	614179.50
217	58+68.76 '93RD ST'	34.50' LT	711.27	116916.72	614173.51

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CURB RAMP DETAILS	SHEET 51	E

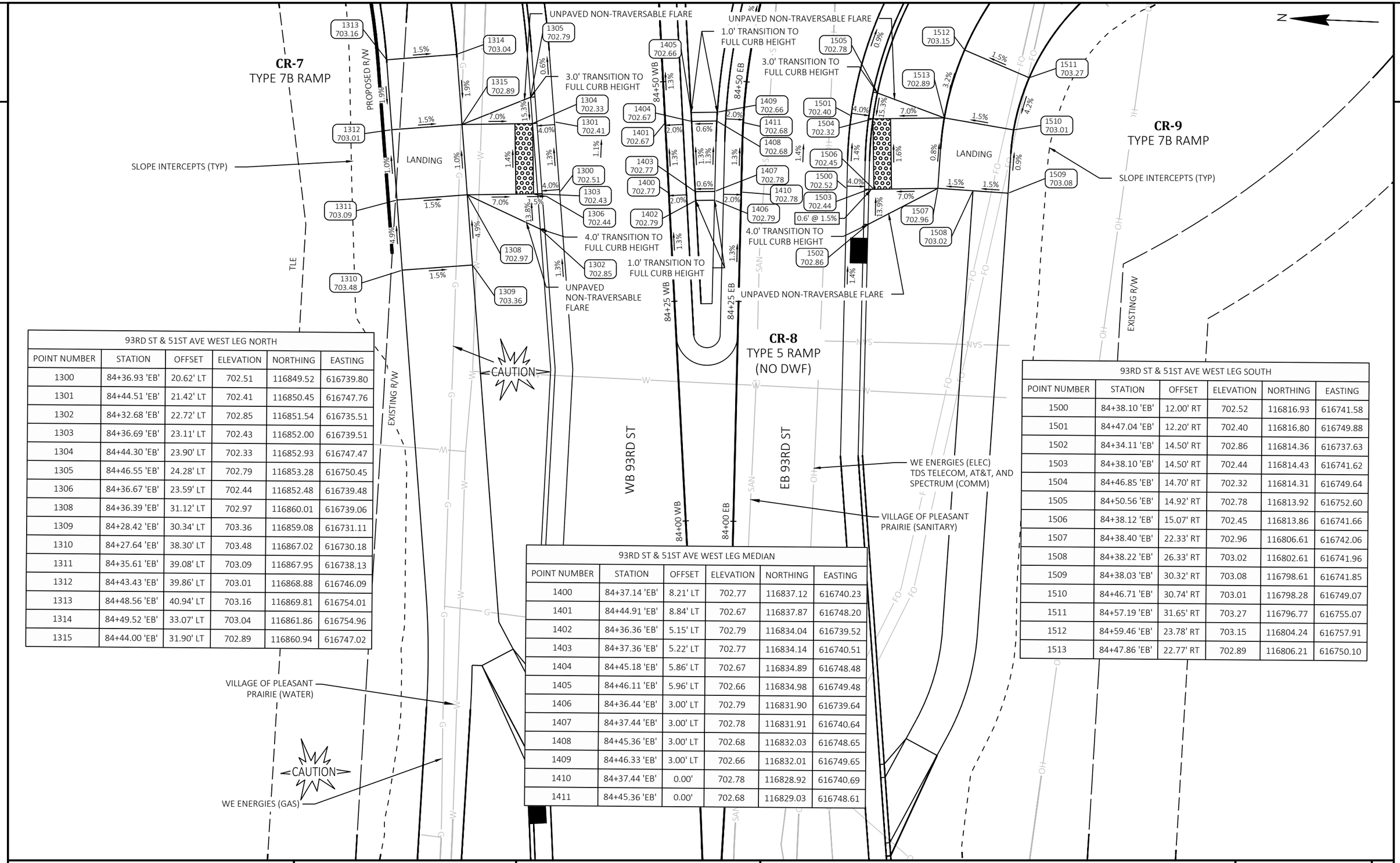
INGRAM PARK ROAD NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
300	66+83.90 '93RD ST'	20.00' LT	714.58	116881.59	614988.02
301	66+90.47 '93RD ST'	20.72' LT	714.72	116882.14	614994.61
302	67+05.45 '93RD ST'	31.11' LT	715.58	116892.16	615009.85
303	67+08.60 '93RD ST'	37.78' LT	715.67	116898.74	615013.16
304	66+80.90 '93RD ST'	22.50' LT	714.89	116884.17	614985.08
305	66+83.90 '93RD ST'	22.50' LT	714.50	116884.09	614988.08
306	66+89.90 '93RD ST'	23.12' LT	714.64	116884.56	614994.09
307	66+93.90 '93RD ST'	24.48' LT	715.08	116885.82	614998.13
308	67+01.54 '93RD ST'	30.12' LT	715.81	116891.26	615005.91
309	67+03.38 '93RD ST'	32.50' LT	715.50	116893.60	615007.80
310	67+06.21 '93RD ST'	38.50' LT	715.59	116899.52	615010.79
311	67+07.03 '93RD ST'	42.50' LT	716.02	116903.50	615011.71
312	66+83.90 '93RD ST'	23.12' LT	714.51	116884.71	614988.10
313	66+83.90 '93RD ST'	32.50' LT	715.17	116894.09	614988.33
314	66+77.90 '93RD ST'	32.50' LT	715.18	116894.24	614982.33
315	66+77.90 '93RD ST'	38.50' LT	715.27	116900.24	614982.49
316	66+83.90 '93RD ST'	38.50' LT	715.28	116900.09	614988.48
317	66+89.90 '93RD ST'	38.50' LT	715.41	116899.94	614994.48
318	66+97.38 '93RD ST'	38.50' LT	715.52	116899.75	615001.96
319	67+03.38 '93RD ST'	38.50' LT	715.61	116899.59	615007.95
320	66+97.38 '93RD ST'	32.50' LT	715.41	116893.75	615001.80
321	66+89.90 '93RD ST'	32.50' LT	715.30	116893.94	614994.33

INGRAM PARK ROAD NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
400	67+48.67 '93RD ST'	37.78' LT	716.94	116897.73	615053.22
401	67+51.82 '93RD ST'	31.11' LT	716.96	116890.98	615056.20
402	67+66.94 '93RD ST'	20.65' LT	717.06	116880.14	615071.05
403	67+73.51 '93RD ST'	20.00' LT	717.17	116879.33	615077.59
404	67+50.39 '93RD ST'	41.42' LT	717.34	116901.33	615055.03
405	67+51.07 '93RD ST'	38.50' LT	716.86	116898.39	615055.63
406	67+53.90 '93RD ST'	32.50' LT	716.88	116892.32	615058.31
407	67+55.73 '93RD ST'	30.12' LT	717.29	116889.89	615060.08
408	67+64.64 '93RD ST'	23.96' LT	717.35	116883.51	615068.83
409	67+67.51 '93RD ST'	23.09' LT	716.98	116882.56	615071.67
410	67+73.51 '93RD ST'	22.50' LT	717.09	116881.82	615077.66
411	67+76.51 '93RD ST'	22.50' LT	717.55	116881.75	615080.66
412	67+53.90 '93RD ST'	38.50' LT	716.90	116898.32	615058.46
413	67+59.90 '93RD ST'	38.50' LT	717.24	116898.16	615064.46
414	67+67.51 '93RD ST'	38.50' LT	717.67	116897.97	615072.06
415	67+73.51 '93RD ST'	38.50' LT	717.78	116897.82	615078.06
416	67+79.51 '93RD ST'	38.50' LT	718.03	116897.67	615084.06
417	67+85.51 '93RD ST'	38.50' LT	718.29	116897.52	615090.06
418	67+85.51 '93RD ST'	32.50' LT	718.20	116891.52	615089.91
419	67+79.51 '93RD ST'	32.50' LT	717.97	116891.67	615083.91
420	67+73.51 '93RD ST'	32.50' LT	717.75	116891.82	615077.91
421	67+73.51 '93RD ST'	23.09' LT	717.09	116882.41	615077.67
422	67+67.51 '93RD ST'	32.50' LT	717.64	116891.97	615071.91
423	67+59.90 '93RD ST'	32.50' LT	717.21	116892.17	615064.31



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CURB RAMP DETAILS	SHEET 52	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021301-CR.DWG
LAYOUT NAME - 021302-cr
PLOT DATE : 7/16/2026 9:02 AM
PLOT BY : ISSELMANN, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:10 FT



93RD ST & 51ST AVE WEST LEG NORTH					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1300	84+36.93 'EB'	20.62' LT	702.51	116849.52	616739.80
1301	84+44.51 'EB'	21.42' LT	702.41	116850.45	616747.76
1302	84+32.68 'EB'	22.72' LT	702.85	116851.54	616735.51
1303	84+36.69 'EB'	23.11' LT	702.43	116852.00	616739.51
1304	84+44.30 'EB'	23.90' LT	702.33	116852.93	616747.47
1305	84+46.55 'EB'	24.28' LT	702.79	116853.28	616750.45
1306	84+36.67 'EB'	23.59' LT	702.44	116852.48	616739.48
1308	84+36.39 'EB'	31.12' LT	702.97	116860.01	616739.06
1309	84+28.42 'EB'	30.34' LT	703.36	116859.08	616731.11
1310	84+27.64 'EB'	38.30' LT	703.48	116867.02	616730.18
1311	84+35.61 'EB'	39.08' LT	703.09	116867.95	616738.13
1312	84+43.43 'EB'	39.86' LT	703.01	116868.88	616746.09
1313	84+48.56 'EB'	40.94' LT	703.16	116869.81	616754.01
1314	84+49.52 'EB'	33.07' LT	703.04	116861.86	616754.96
1315	84+44.00 'EB'	31.90' LT	702.89	116860.94	616747.02

93RD ST & 51ST AVE WEST LEG MEDIAN					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1400	84+37.14 'EB'	8.21' LT	702.77	116837.12	616740.23
1401	84+44.91 'EB'	8.84' LT	702.67	116837.87	616748.20
1402	84+36.36 'EB'	5.15' LT	702.79	116834.04	616739.52
1403	84+37.36 'EB'	5.22' LT	702.77	116834.14	616740.51
1404	84+45.18 'EB'	5.86' LT	702.67	116834.89	616748.48
1405	84+46.11 'EB'	5.96' LT	702.66	116834.98	616749.48
1406	84+36.44 'EB'	3.00' LT	702.79	116831.90	616739.64
1407	84+37.44 'EB'	3.00' LT	702.78	116831.91	616740.64
1408	84+45.36 'EB'	3.00' LT	702.68	116832.03	616748.65
1409	84+46.33 'EB'	3.00' LT	702.66	116832.01	616749.65
1410	84+37.44 'EB'	0.00'	702.78	116828.92	616740.69
1411	84+45.36 'EB'	0.00'	702.68	116829.03	616748.61

93RD ST & 51ST AVE WEST LEG SOUTH					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1500	84+38.10 'EB'	12.00' RT	702.52	116816.93	616741.58
1501	84+47.04 'EB'	12.20' RT	702.40	116816.80	616749.88
1502	84+34.11 'EB'	14.50' RT	702.86	116814.36	616737.63
1503	84+38.10 'EB'	14.50' RT	702.44	116814.43	616741.62
1504	84+46.85 'EB'	14.70' RT	702.32	116814.31	616749.64
1505	84+50.56 'EB'	14.92' RT	702.78	116813.92	616752.60
1506	84+38.12 'EB'	15.07' RT	702.45	116813.86	616741.66
1507	84+38.40 'EB'	22.33' RT	702.96	116806.61	616742.06
1508	84+38.22 'EB'	26.33' RT	703.02	116802.61	616741.96
1509	84+38.03 'EB'	30.32' RT	703.08	116798.61	616741.85
1510	84+46.71 'EB'	30.74' RT	703.01	116798.28	616749.07
1511	84+57.19 'EB'	31.65' RT	703.27	116796.77	616755.07
1512	84+59.46 'EB'	23.78' RT	703.15	116804.24	616757.91
1513	84+47.86 'EB'	22.77' RT	702.89	116806.21	616750.10

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CURB RAMP DETAILS	SHEET 53	E

93RD ST & 51ST AVE NORTH LEG WEST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1000	100+31.38 'NB'	21.18' LT	701.42	116897.05	616810.05
1001	100+39.64 'NB'	20.40' LT	701.30	116905.31	616809.27
1002	100+27.85 'NB'	24.57' LT	701.76	116892.94	616807.38
1003	100+31.82 'NB'	23.64' LT	701.34	116897.02	616807.55
1004	100+39.80 'NB'	22.90' LT	701.22	116905.00	616806.79
1005	100+42.79 'NB'	22.71' LT	701.67	116907.97	616806.42
1006	100+39.81 'NB'	23.39' LT	701.22	116904.92	616806.31
1007	100+40.08 'NB'	31.67' LT	701.72	116903.63	616798.12
1008	100+40.21 'NB'	35.68' LT	701.78	116903.01	616794.16
1009	100+40.33 'NB'	39.69' LT	701.84	116902.39	616790.20
1010	100+32.35 'NB'	40.43' LT	701.99	116894.41	616790.96
1011	100+28.25 'NB'	41.59' LT	702.20	116890.17	616790.58
1012	100+19.83 'NB'	49.65' LT	702.79	116880.39	616784.23
1013	100+12.94 'NB'	45.59' LT	702.67	116874.37	616789.51
1014	100+24.49 'NB'	34.53' LT	702.08	116887.79	616798.22
1015	100+32.10 'NB'	32.42' LT	701.87	116895.66	616798.88

93RD ST & 51ST AVE NORTH LEG MEDIAN					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1100	100+31.51 'NB'	8.92' LT	701.52	116899.46	616822.07
1101	100+39.43 'NB'	8.39' LT	701.37	116907.34	616821.11
1102	100+30.26 'NB'	6.02' LT	701.91	116898.77	616825.15
1103	100+31.25 'NB'	5.93' LT	701.56	116899.77	616825.06
1104	100+39.24 'NB'	5.40' LT	701.42	116907.72	616824.09
1105	100+40.24 'NB'	5.34' LT	701.72	116908.71	616823.96
1106	100+30.16 'NB'	3.00' LT	701.78	116899.24	616828.14
1107	100+31.16 'NB'	3.00' LT	701.43	116900.22	616827.95
1108	100+39.16 'NB'	3.00' LT	701.29	116908.09	616826.46
1109	100+40.16 'NB'	3.00' LT	701.60	116909.07	616826.27
1110	100+31.16 'NB'	0.00'	701.39	116900.78	616830.90
1111	100+39.16 'NB'	0.00'	701.25	116908.65	616829.40

93RD ST & 51ST AVE NORTH LEG EAST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1200	100+30.55 'NB'	13.12' RT	701.42	116902.64	616843.90
1201	100+38.47 'NB'	12.76' RT	701.29	116910.35	616842.07
1202	100+26.56 'NB'	15.80' RT	701.77	116899.21	616847.28
1203	100+30.57 'NB'	15.62' RT	701.35	116903.12	616846.36
1204	100+38.58 'NB'	15.26' RT	701.21	116910.92	616844.51
1205	100+41.58 'NB'	15.13' RT	701.66	116913.84	616843.82
1206	100+30.31 'NB'	23.66' RT	701.67	116904.36	616854.30
1207	100+22.32 'NB'	24.01' RT	702.15	116896.58	616856.14
1208	100+22.67 'NB'	32.00' RT	702.26	116898.41	616863.92
1209	100+30.66 'NB'	31.65' RT	701.79	116906.20	616862.09
1210	100+38.68 'NB'	31.30' RT	701.64	116914.01	616860.25
1211	100+38.50 'NB'	27.30' RT	701.58	116913.09	616856.35
1212	100+38.32 'NB'	23.31' RT	701.52	116912.17	616852.46
1213	100+38.56 'NB'	15.88' RT	701.22	116911.02	616845.11

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CURB RAMP DETAILS	SHEET 54	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021301-CR.DWG
LAYOUT NAME - 021305-cr-NL
PLOT DATE : 7/16/2026 9:02 AM
PLOT BY : ISSELMANN, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

93RD ST & 51ST AVE EAST LEG NORTH					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1600	90+28.91 'EB'	21.15' LT	701.74	116833.48	616893.34
1601	90+37.17 'EB'	20.23' LT	701.65	116833.34	616901.65
1602	90+25.42 'EB'	24.57' LT	695.00	116836.56	616889.54
1603	90+29.39 'EB'	23.61' LT	701.66	116835.97	616893.59
1604	90+37.36 'EB'	22.72' LT	701.57	116835.84	616901.61
1605	90+40.35 'EB'	22.50' LT	702.03	116835.90	616904.60
1606	90+29.61 'EB'	29.60' LT	702.02	116841.96	616893.25
1607	90+29.93 'EB'	38.02' LT	702.53	116850.37	616892.77
1608	90+21.98 'EB'	38.91' LT	702.80	116850.51	616884.78
1609	90+22.87 'EB'	46.86' LT	702.92	116858.51	616884.92
1610	90+30.82 'EB'	45.97' LT	702.65	116858.37	616892.92
1611	90+38.79 'EB'	45.08' LT	702.53	116858.23	616900.94
1612	90+46.74 'EB'	44.18' LT	702.39	116858.09	616908.94
1613	90+45.85 'EB'	36.23' LT	702.27	116850.09	616908.79
1614	90+37.90 'EB'	37.13' LT	702.41	116850.23	616900.79
1615	90+37.61 'EB'	29.30' LT	701.94	116842.41	616901.24
1616	90+37.38 'EB'	23.30' LT	701.58	116836.42	616901.57

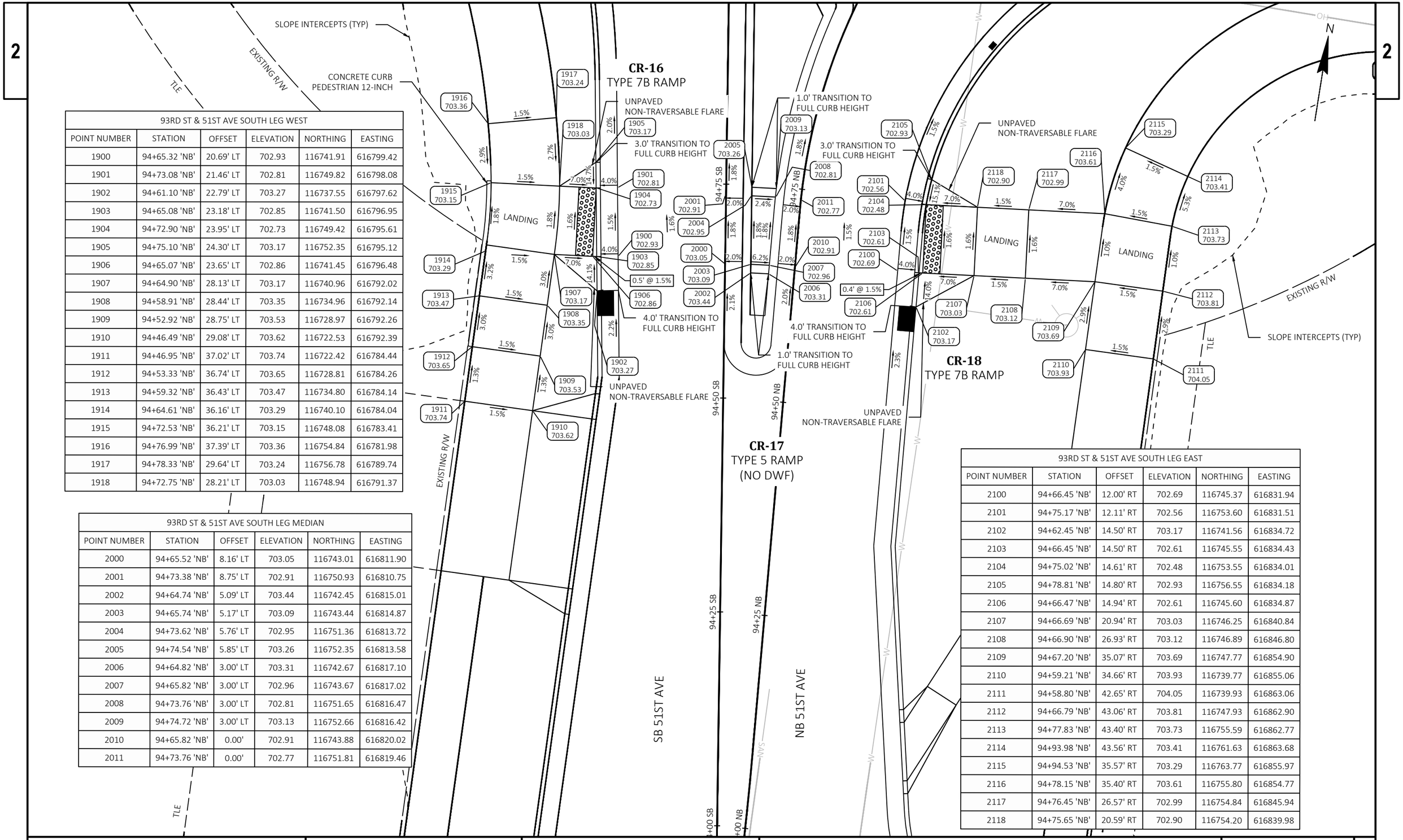
93RD ST & 51ST AVE EAST LEG MEDIAN					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1700	90+29.03 'EB'	8.84' LT	701.76	116821.24	616894.62
1701	90+36.92 'EB'	8.21' LT	701.71	116821.36	616902.53
1702	90+27.72 'EB'	5.97' LT	702.14	116818.26	616893.58
1703	90+28.72 'EB'	5.87' LT	701.80	116818.25	616894.58
1704	90+36.70 'EB'	5.22' LT	701.75	116818.36	616902.59
1705	90+37.70 'EB'	5.15' LT	702.08	116818.37	616903.59
1706	90+27.61 'EB'	3.00' LT	702.18	116815.29	616893.75
1707	90+28.61 'EB'	3.00' LT	701.84	116815.38	616894.74
1708	90+36.62 'EB'	3.00' LT	701.80	116816.13	616902.71
1709	90+37.62 'EB'	3.00' LT	702.13	116816.23	616903.71
1710	90+28.61 'EB'	0.00'	701.80	116812.40	616895.03
1711	90+36.62 'EB'	0.00'	701.76	116813.15	616903.00

93RD ST & 51ST AVE EAST LEG SOUTH					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1800	90+27.87 'EB'	12.56' RT	701.67	116799.82	616895.47
1801	90+35.89 'EB'	12.38' RT	701.60	116800.75	616903.43
1802	90+23.93 'EB'	15.15' RT	701.99	116796.87	616891.79
1803	90+27.93 'EB'	15.06' RT	701.59	116797.34	616895.76
1804	90+35.94 'EB'	14.88' RT	701.52	116798.27	616903.72
1805	90+38.94 'EB'	14.82' RT	701.99	116798.61	616906.70
1806	90+27.63 'EB'	23.07' RT	702.16	116789.33	616896.21
1807	90+19.63 'EB'	23.25' RT	702.49	116788.41	616888.26
1808	90+19.84 'EB'	31.25' RT	702.61	116780.46	616889.22
1809	90+27.81 'EB'	31.07' RT	702.28	116781.39	616897.14
1810	90+35.82 'EB'	30.89' RT	702.18	116782.32	616905.10
1811	90+35.73 'EB'	26.89' RT	702.12	116786.29	616904.64
1812	90+35.64 'EB'	22.89' RT	702.06	116790.26	616904.17
1813	90+35.92 'EB'	15.36' RT	701.53	116797.79	616903.75

VILLAGE OF PLEASANT PRAIRIE (SANITARY)
WB 93RD ST
EB 93RD ST
N
90+75 WB
90+75 EB
WE ENERGIES (ELEC)
TDS TELECOM, AT&T, AND
SPECTRUM (COMM)
CR-15
TYPE 7B RAMP
EXISTING R/W
TLE
UNPAVED
NON-TRAVERSABLE FLARE
3.0' TRANSITION TO
FULL CURB HEIGHT
90+50 WB
90+50 EB
1.1%
1.0' TRANSITION TO
FULL CURB HEIGHT
0.5' @ 1.5%
0.6' @ 1.5%
CR-13
TYPE 7B RAMP
LANDING
SLOPE INTERCEPTS (TYP)
4.1' TRANSITION TO
FULL CURB HEIGHT
4.0' TRANSITION TO
FULL CURB HEIGHT
90+25 WB
90+25 EB
CR-14
TYPE 5 RAMP
(NO DWF)
CAUTION
PROPOSED R/W
VILLAGE OF PLEASANT
PRAIRIE (WATER)
WE ENERGIES (GAS)
SLOPE INTERCEPTS (TYP)
EXISTING R/W

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CURB RAMP DETAILS	SHEET 55	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021301-CR.DWG
LAYOUT NAME - 021306-cr-EL
PLOT DATE : 7/16/2026 9:02 AM
PLOT BY : ISSELMANN, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:10 FT



93RD ST & 51ST AVE SOUTH LEG WEST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1900	94+65.32 'NB'	20.69' LT	702.93	116741.91	616799.42
1901	94+73.08 'NB'	21.46' LT	702.81	116749.82	616798.08
1902	94+61.10 'NB'	22.79' LT	703.27	116737.55	616797.62
1903	94+65.08 'NB'	23.18' LT	702.85	116741.50	616796.95
1904	94+72.90 'NB'	23.95' LT	702.73	116749.42	616795.61
1905	94+75.10 'NB'	24.30' LT	703.17	116752.35	616795.12
1906	94+65.07 'NB'	23.65' LT	702.86	116741.45	616796.48
1907	94+64.90 'NB'	28.13' LT	703.17	116740.96	616792.02
1908	94+58.91 'NB'	28.44' LT	703.35	116734.96	616792.14
1909	94+52.92 'NB'	28.75' LT	703.53	116728.97	616792.26
1910	94+46.49 'NB'	29.08' LT	703.62	116722.53	616792.39
1911	94+46.95 'NB'	37.02' LT	703.74	116722.42	616784.44
1912	94+53.33 'NB'	36.74' LT	703.65	116728.81	616784.26
1913	94+59.32 'NB'	36.43' LT	703.47	116734.80	616784.14
1914	94+64.61 'NB'	36.16' LT	703.29	116740.10	616784.04
1915	94+72.53 'NB'	36.21' LT	703.15	116748.08	616783.41
1916	94+76.99 'NB'	37.39' LT	703.36	116754.84	616781.98
1917	94+78.33 'NB'	29.64' LT	703.24	116756.78	616789.74
1918	94+72.75 'NB'	28.21' LT	703.03	116748.94	616791.37

93RD ST & 51ST AVE SOUTH LEG MEDIAN					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
2000	94+65.52 'NB'	8.16' LT	703.05	116743.01	616811.90
2001	94+73.38 'NB'	8.75' LT	702.91	116750.93	616810.75
2002	94+64.74 'NB'	5.09' LT	703.44	116742.45	616815.01
2003	94+65.74 'NB'	5.17' LT	703.09	116743.44	616814.87
2004	94+73.62 'NB'	5.76' LT	702.95	116751.36	616813.72
2005	94+74.54 'NB'	5.85' LT	703.26	116752.35	616813.58
2006	94+64.82 'NB'	3.00' LT	703.31	116742.67	616817.10
2007	94+65.82 'NB'	3.00' LT	702.96	116743.67	616817.02
2008	94+73.76 'NB'	3.00' LT	702.81	116751.65	616816.47
2009	94+74.72 'NB'	3.00' LT	703.13	116752.66	616816.42
2010	94+65.82 'NB'	0.00'	702.91	116743.88	616820.02
2011	94+73.76 'NB'	0.00'	702.77	116751.81	616819.46

93RD ST & 51ST AVE SOUTH LEG EAST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
2100	94+66.45 'NB'	12.00' RT	702.69	116745.37	616831.94
2101	94+75.17 'NB'	12.11' RT	702.56	116753.60	616831.51
2102	94+62.45 'NB'	14.50' RT	703.17	116741.56	616834.72
2103	94+66.45 'NB'	14.50' RT	702.61	116745.55	616834.43
2104	94+75.02 'NB'	14.61' RT	702.48	116753.55	616834.01
2105	94+78.81 'NB'	14.80' RT	702.93	116756.55	616834.18
2106	94+66.47 'NB'	14.94' RT	702.61	116745.60	616834.87
2107	94+66.69 'NB'	20.94' RT	703.03	116746.25	616840.84
2108	94+66.90 'NB'	26.93' RT	703.12	116746.89	616846.80
2109	94+67.20 'NB'	35.07' RT	703.69	116747.77	616854.90
2110	94+59.21 'NB'	34.66' RT	703.93	116739.77	616855.06
2111	94+58.80 'NB'	42.65' RT	704.05	116739.93	616863.06
2112	94+66.79 'NB'	43.06' RT	703.81	116747.93	616862.90
2113	94+77.83 'NB'	43.40' RT	703.73	116755.59	616862.77
2114	94+93.98 'NB'	43.56' RT	703.41	116761.63	616863.68
2115	94+94.53 'NB'	35.57' RT	703.29	116763.77	616855.97
2116	94+78.15 'NB'	35.40' RT	703.61	116755.80	616854.77
2117	94+76.45 'NB'	26.57' RT	702.99	116754.84	616845.94
2118	94+75.65 'NB'	20.59' RT	702.90	116754.20	616839.98

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CURB RAMP DETAILS	SHEET 56	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\021301-CR.DWG
LAYOUT NAME - 021307-cr-SL
PLOT DATE : 7/16/2026 9:02 AM
PLOT BY : ISSELMANN, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 44

2

2

PROPOSED TLE (TYP)

49'EB'

50'EB'

51'EB'

52'EB'

53'EB'

54'EB'

93RD ST

93RD ST

INSTALL INLET PROTECTION TYPE D IN THE LOW POINT INLETS AT STA. 48+37'EB', LT & RT

EXISTING R/W (TYP)

PROPOSED R/W (TYP)

STORMWATER POND 1

EROSION CONTROL LEGEND

- SLOPE INTERCEPT
- SURFACE WATER FLOW
- SILT FENCE
- EROSION MAT URBAN CLASS I, TYPE B
- INLET PROTECTION
- A B C D INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM

N

PROPOSED TLE (TYP)

60TH AVE

EXISTING R/W (TYP)

N

55'EB'

56'EB'

57'EB'

58'EB'

59'EB'

60'EB'

93RD ST

93RD ST

PROPOSED R/W (TYP)

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	EROSION CONTROL	SHEET 57	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\022001-EC.DWG
LAYOUT NAME - 01

PLOT DATE : 7/28/2026 8:38 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

2

N

PROPOSED TLE (TYP)

EXISTING R/W (TYP)

61'EB' 62'EB' 63'EB' 64'EB' 65'EB' 66'EB'

93RD ST

93RD ST

EROSION CONTROL LEGEND

- SLOPE INTERCEPT
- SURFACE WATER FLOW
- SILT FENCE
- EROSION MAT URBAN CLASS I, TYPE B
- INLET PROTECTION
- A B C D INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM

11'IP

INGRAM PARK RD

N

PROPOSED TLE (TYP)

EXISTING R/W (TYP)

66'EB' 67'EB' 68'EB' 69'EB' 70'EB' 71'EB' 72'EB'

93RD ST

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	EROSION CONTROL	SHEET 58	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\022001-EC.DWG
LAYOUT NAME - 02

PLOT DATE : 7/28/2026 8:38 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

EXISTING R/W (TYP)

PROPOSED TLE (TYP)

72'EB' 73'EB' 74'EB' 75'EB' 76'EB' 77'EB' 78'EB'

93RD ST

93RD ST

PROPOSED R/W (TYP)

EROSION CONTROL LEGEND

- SLOPE INTERCEPT
- SURFACE WATER FLOW
- SILT FENCE
- EROSION MAT URBAN CLASS I, TYPE B
- INLET PROTECTION
- A B C D — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM

N

2

PROPOSED TLE (TYP)

EXISTING R/W (TYP)

78'EB' 79'EB' 80'EB' 81'EB' 82'EB' 83'EB' 84'WB'

93RD ST

93RD ST 84'EB'

N

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	EROSION CONTROL	SHEET 59	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\022001-EC.DWG
LAYOUT NAME - 03

PLOT DATE : 7/28/2026 8:38 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

EROSION CONTROL LEGEND

- SLOPE INTERCEPT
- SURFACE WATER FLOW
- SILT FENCE
- EROSION MAT URBAN CLASS I, TYPE B
- INLET PROTECTION
- A B C D — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM

N

COOPER RD

101'SB'

101'NB'

PROPOSED TLE (TYP)

PROPOSED R/W (TYP)

EXISTING R/W (TYP)

84'WB'

84'EB'

93RD ST

92'WB'

91'EB'

93'EB'

92'EB'

93RD ST

95'SB'

95'NB'

94'SB'

94'NB'

COOPER RD

WELL

POST

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	EROSION CONTROL	SHEET 60	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\022001-EC.DWG
LAYOUT NAME - 04

PLOT DATE : 7/28/2026 8:38 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

ADJ-1 STA 50+59, 23.30' LT
ADJUSTING INLET COVER

ADJ-3 STA 50+59.80, 11.50' RT
ADJUSTING MANHOLE COVERS

ADJ-2 STA 50+60, 23.10' RT
ADJUSTING INLET COVERS

VILLAGE OF PLEASANT PRAIRIE (WATER)

SLOPE INTERCEPT (TYP.)

PROPOSED R/W (TYP.)

EXISTING R/W (TYP.)

WE ENERGIES (GAS)

CAUTION

10 STA 52+22.06, 22.62' LT
INLETS 2x3-H

11 STA 52+06.25, 7.25' RT
MANHOLES 4-J

12 STA 52+18.54, 23.55' RT
INLETS 2x3-H

100 STA 53+84.50, 19.91' RT
MANHOLES 6-H

110 STA 56+13.15, 11.00' RT
MANHOLES 5-J

102 STA 53+72.37, 61.75' RT
APRON ENDWALLS FOR CPRC 30-INCH

PIPE UNDERDRAIN (TYP.)

CONNECT EXISTING
STORM SEWER (18-INCH)
TO NEW MANHOLE

51'EB' 52'EB' 53'EB' 54'EB' 55'EB' 56'EB'

93RD ST

93RD ST

EMERGENCY SPILLWAY

NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE

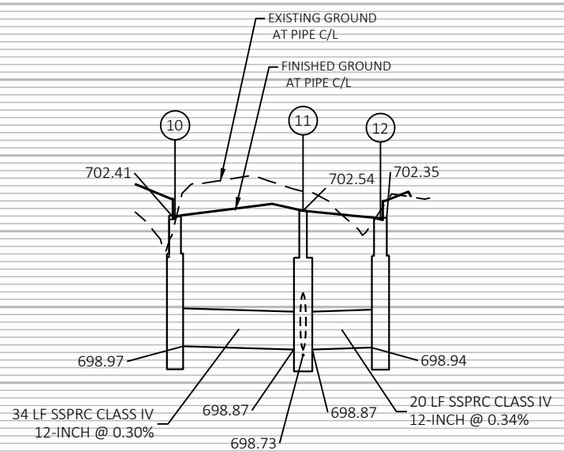
RIM ELEVATION ARE GIVEN AT CENTER OF STRUCTURE

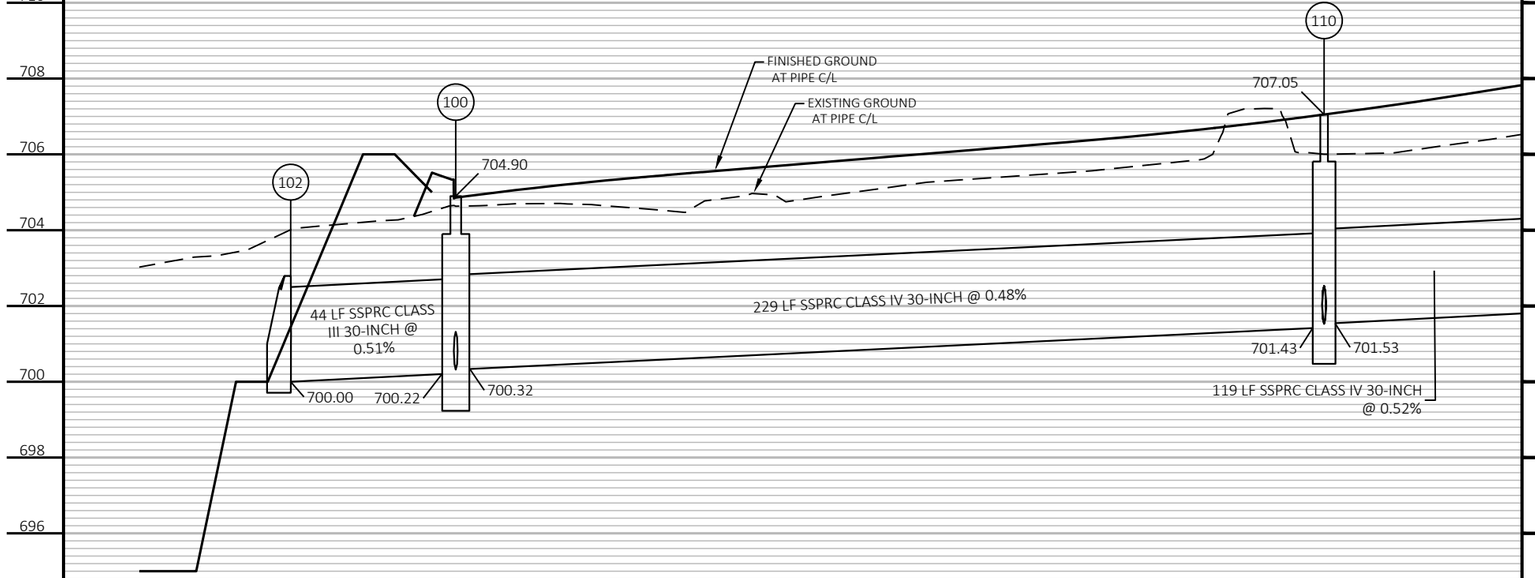
APRON ENDWALL LOCATIONS ARE PROVIDED AT THE END OF PROPOSED STORM SEWER PIPE.

WE ENERGIES (ELEC)
TDS TELECOM, AT&T, AND
SPECTRUM (COMM)

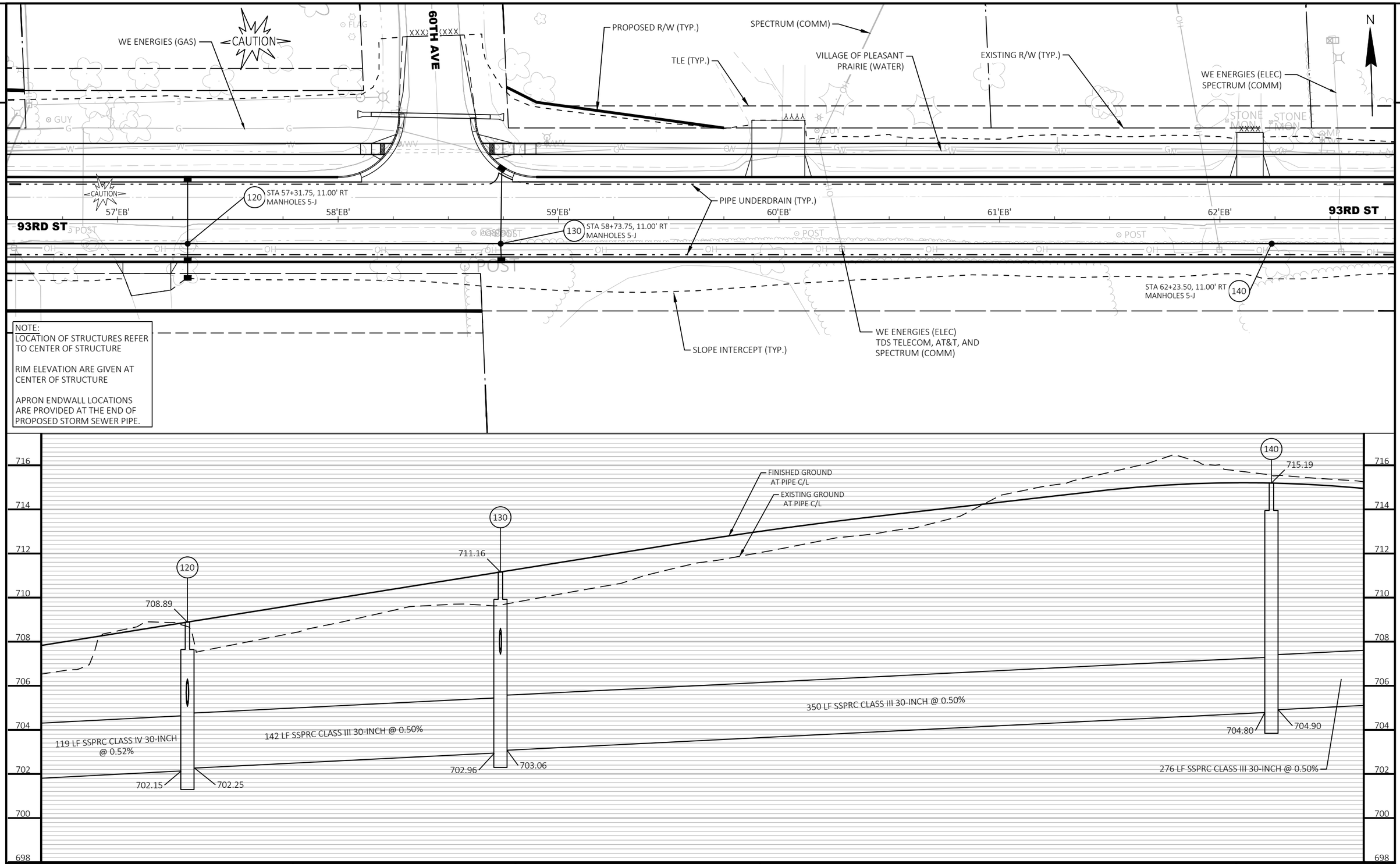
TLE (TYP.)

N





PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	STORM SEWER	SHEET 61	E



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	STORM SEWER	SHEET 62 E

2

VILLAGE OF PLEASANT PRAIRIE (WATER)

WE ENERGIES (GAS)

CAUTION

TLE (TYP.)

EXISTING R/W (TYP.)

INGRAM PARK RD

WE ENERGIES (ELEC)

N

XXXXXXX

XXXXX

XXXX

PIPE UNDERDRAIN (TYP.)

150 STA 64+99.75, 11.00' RT MANHOLES 6-J

STA 66+55.30, 11.00' RT MANHOLES 5-J 160

STA 67+81.25, 11.00' RT MANHOLES 4-J 170

63'EB' 64'EB' 65'EB' 66'EB' 67'EB' 68'EB'

93RD ST

93RD ST

NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE

RIM ELEVATION ARE GIVEN AT CENTER OF STRUCTURE

APRON ENDWALL LOCATIONS ARE PROVIDED AT THE END OF PROPOSED STORM SEWER PIPE.

WE ENERGIES (ELEC)
TDS TELECOM, AT&T, AND SPECTRUM (COMM)

SLOPE INTERCEPT (TYP.)

718 716 714 712 710 708 706 704 702 700

FINISHED GROUND AT PIPE C/L

EXISTING GROUND AT PIPE C/L

150

711.35

706.77

706.27

276 LF SSPRC CLASS III 30-INCH @ 0.50%

156 LF SSPRC CLASS III 24-INCH @ 0.86%

160

713.78

709.90

708.10

126 LF SSPRC CLASS III 12-INCH @ 2.84%

170

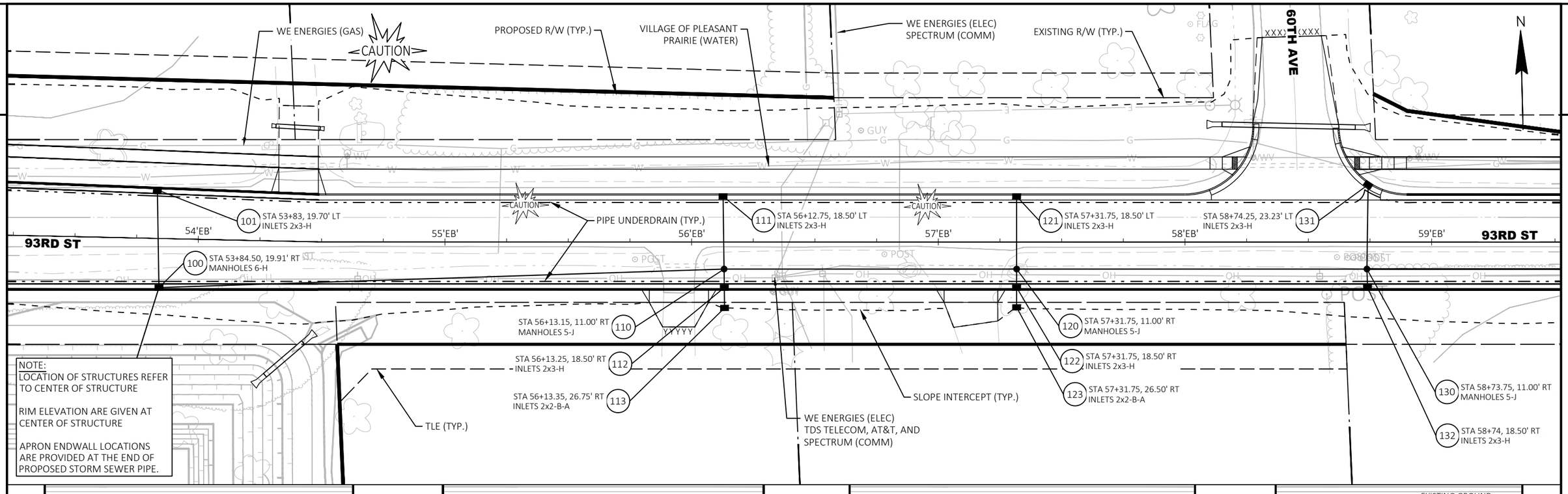
717.49

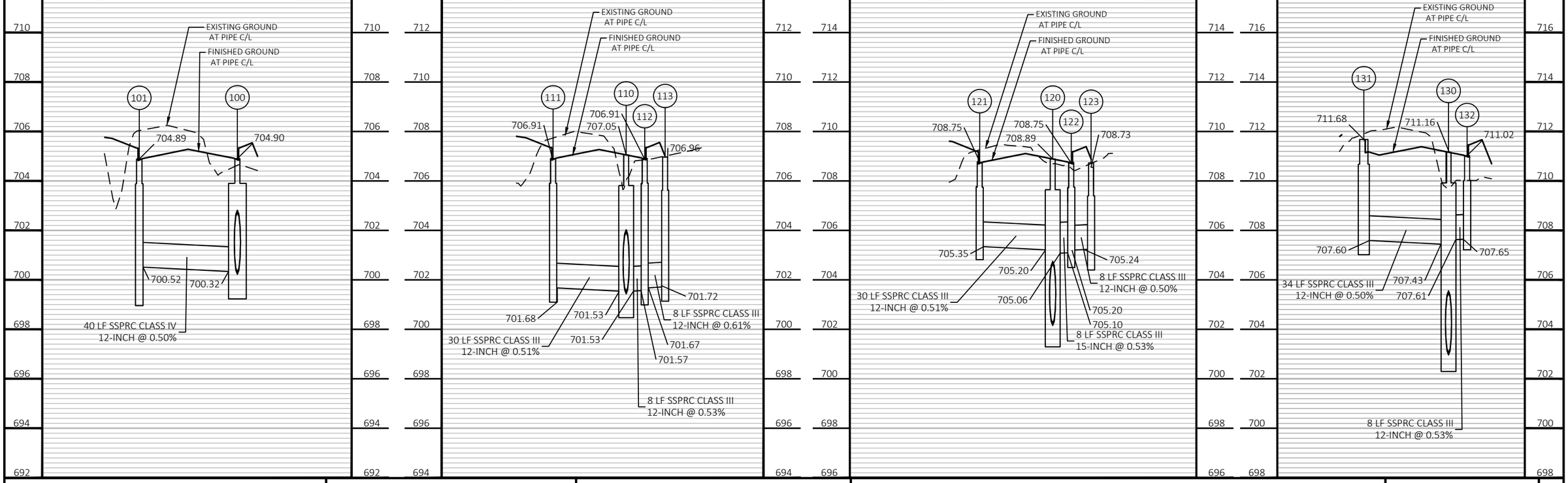
713.48

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	STORM SEWER	SHEET 63	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\022501-SS.DWG
LAYOUT NAME - 100-3

PLOT DATE : 7/22/2026 4:11 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT





PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	STORM SEWER	SHEET 64 E

2

EXISTING R/W (TYP.)

TLE (TYP.)

VILLAGE OF PLEASANT PRAIRIE (WATER)

CAUTION

WE ENERGIES (GAS)

WE ENERGIES (ELEC)

STA 66+55.80, 45.75' LT
INLETS 2x2-B-A
162

INGRAM PARK RD

172 STA 67+60, 43.70' LT
INLETS 2x2-B-A

N

2

STA 64+77.50, 18.50' LT
INLETS 2x3-H
152

151 STA 65+00, 18.50' LT
INLETS 2x3-H-S

161 STA 66+55.50, 21.50' LT
INLETS 2x3-H

171 STA 67+80, 21.50' LT
INLETS 2x3-H

PIPE UNDERDRAIN (TYP.)

93RD ST 64'EB' 65'EB' 66'EB' 67'EB' 68'EB' 69'EB' **93RD ST**

STA 64+77.50, 18.50' RT
INLETS 2x3-H
155

STA 64+99.75, 11.00' RT
MANHOLES 6-J
150

STA 65+00, 18.50' RT
INLETS 2x3-H-S
153

STA 64+99.75, 29.00' RT
INLETS MEDIAN 2G-MS-A
154

SLOPE INTERCEPT (TYP.)

STA 66+55.30, 11.00' RT
MANHOLES 5-J
160

STA 66+55.50, 21.50' RT
INLETS 2x3-H
163

WE ENERGIES (ELEC)
TDS TELECOM, AT&T, AND
SPECTRUM (COMM)

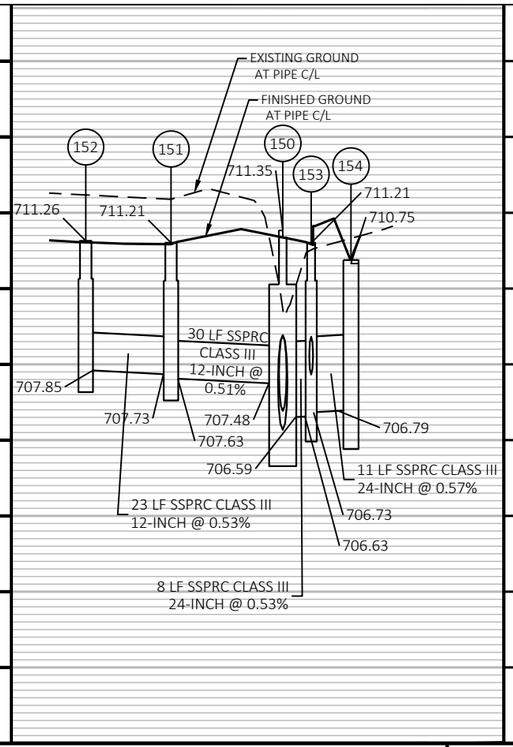
170 STA 67+81.25, 11.00' RT
MANHOLES 4-J

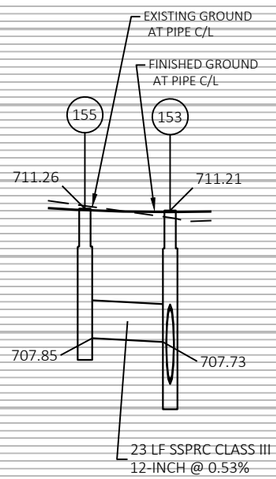
173 STA 67+81.50, 21.50' RT
INLETS 2x3-H

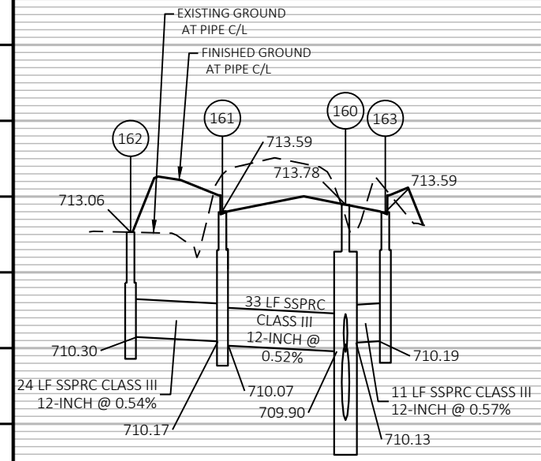
NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE

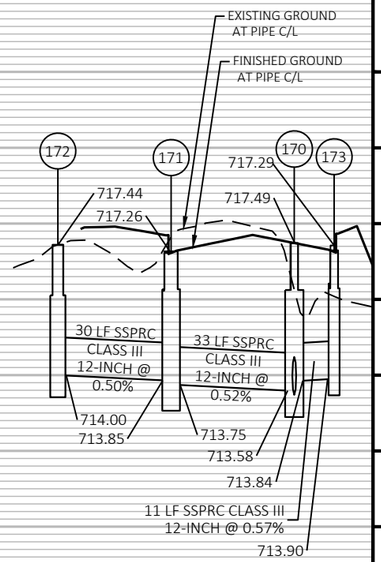
RIM ELEVATION ARE GIVEN AT CENTER OF STRUCTURE

APRON ENDWALL LOCATIONS ARE PROVIDED AT THE END OF PROPOSED STORM SEWER PIPE.









PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	STORM SEWER	SHEET 65	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\022501-SS.DWG
LAYOUT NAME - 101-2

PLOT DATE : 7/22/2026 4:13 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

2

N

PLE

EXISTING R/W (TYP.)

TLE (TYP.)

CAUTION

WE ENERGIES (GAS)

VILLAGE OF PLEASANT PRAIRIE (WATER)

93RD ST

71'EB'

72'EB'

73'EB'

74'EB'

75'EB'

76'EB'

93RD ST

200 STA 71+25.25, 11.00' RT MANHOLES 4-J

PIPE UNDERDRAIN (TYP.)

210 STA 74+28.80, 11.00' RT MANHOLES 4-J

STA 75+80.50, 18.50' RT INLETS 4-H 220

NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE

RIM ELEVATION ARE GIVEN AT CENTER OF STRUCTURE

APRON ENDWALL LOCATIONS ARE PROVIDED AT THE END OF PROPOSED STORM SEWER PIPE.

SLOPE INTERCEPT (TYP.)

WE ENERGIES (ELEC)
TDS TELECOM, AT&T, AND SPECTRUM (COMM)

PLE

720
718
716
714
712
710
708
706
704
702

200

717.64

713.39

EXISTING GROUND AT PIPE C/L

FINISHED GROUND AT PIPE C/L

304 LF SSPRC CLASS III 15-INCH @ 0.70%

210

714.90

711.26

711.11

152 LF SSPRC CLASS III 15-INCH @ 3.20%

220

709.95

706.25

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	STORM SEWER	SHEET 66 E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\022501-SS.DWG
LAYOUT NAME - 200-1

PLOT DATE : 7/22/2026 4:12 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

202 STA 71+25, 42.70' LT
INLETS 2x2-B-A

203 STA 71+62.51, 42.51' LT
INLETS 2x2-B-A

VILLAGE OF PLEASANT PRAIRIE (WATER)

WE ENERGIES (GAS)

CAUTION

EXISTING R/W (TYP.)

TLE (TYP.)

STA 75+80, 39.90' LT
INLETS 2x2-B-A 222

201 STA 71+25, 18.50' LT
INLETS 2x3-H-S

211 STA 74+28.75, 18.50' LT
INLETS 2x3-H

221 STA 75+80.25, 18.50' LT
INLETS 2x3-H

71'EB' 72'EB' 73'EB' 74'EB' 75'EB' 76'EB'

93RD ST

PIPE UNDERDRAIN (TYP.)

93RD ST

220 STA 75+80.50, 18.50' RT
INLETS 4-H

STA 71+25.25, 11.00' RT
MANHOLES 4-J 200

NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE

RIM ELEVATION ARE GIVEN AT CENTER OF STRUCTURE

APRON ENDWALL LOCATIONS ARE PROVIDED AT THE END OF PROPOSED STORM SEWER PIPE.

STA 71+25.50, 18.50' RT
INLETS 2x3-H-S 204

SLOPE INTERCEPT (TYP.)

WE ENERGIES (ELEC)
TDS TELECOM, AT&T, AND
SPECTRUM (COMM)

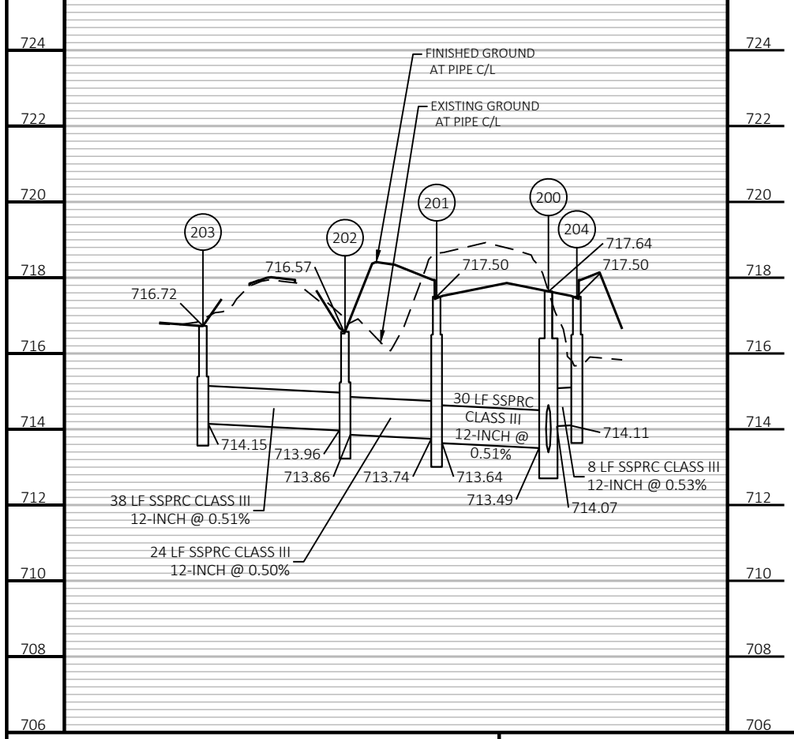
210 STA 74+28.80, 11.00' RT
MANHOLES 4-J

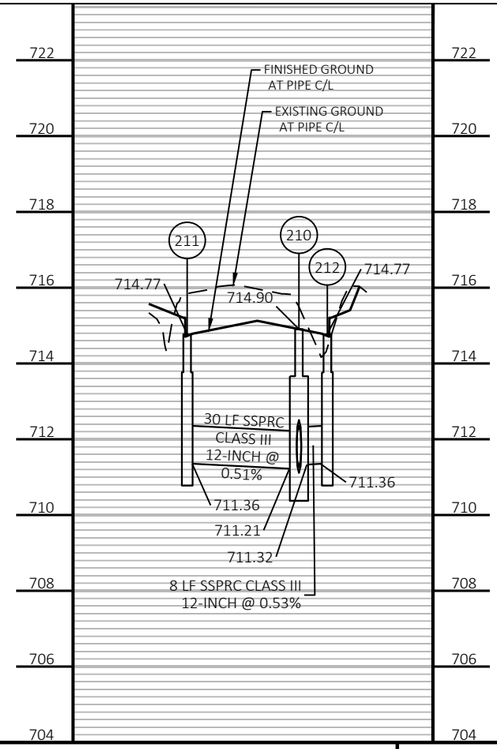
212 STA 74+28.75, 18.50' RT
INLETS 2x3-H

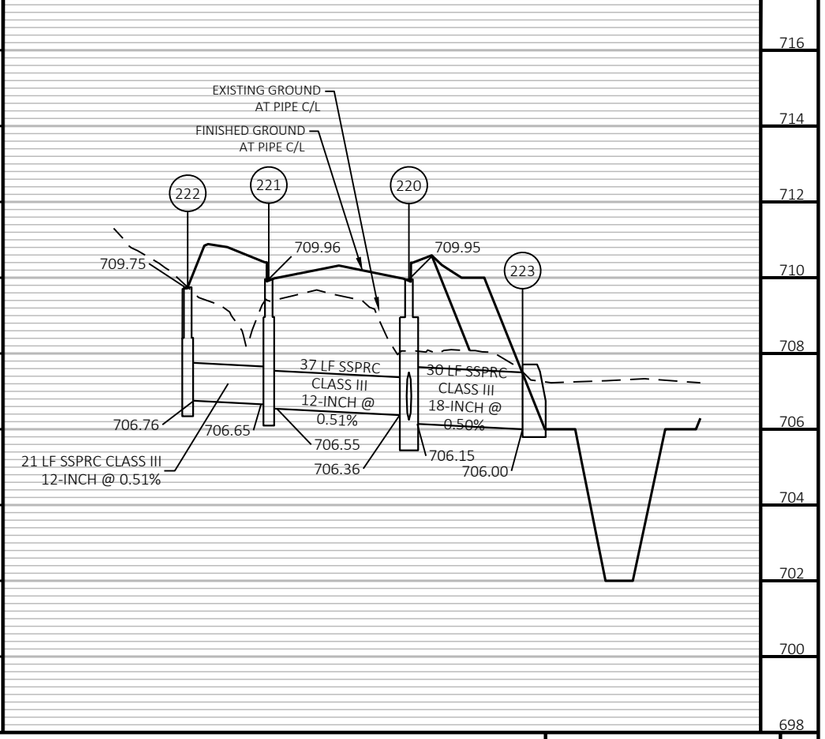
223 STA 75+81.28, 48.49' RT
APRON ENDWALLS FOR CPRC 18-INCH

PLE

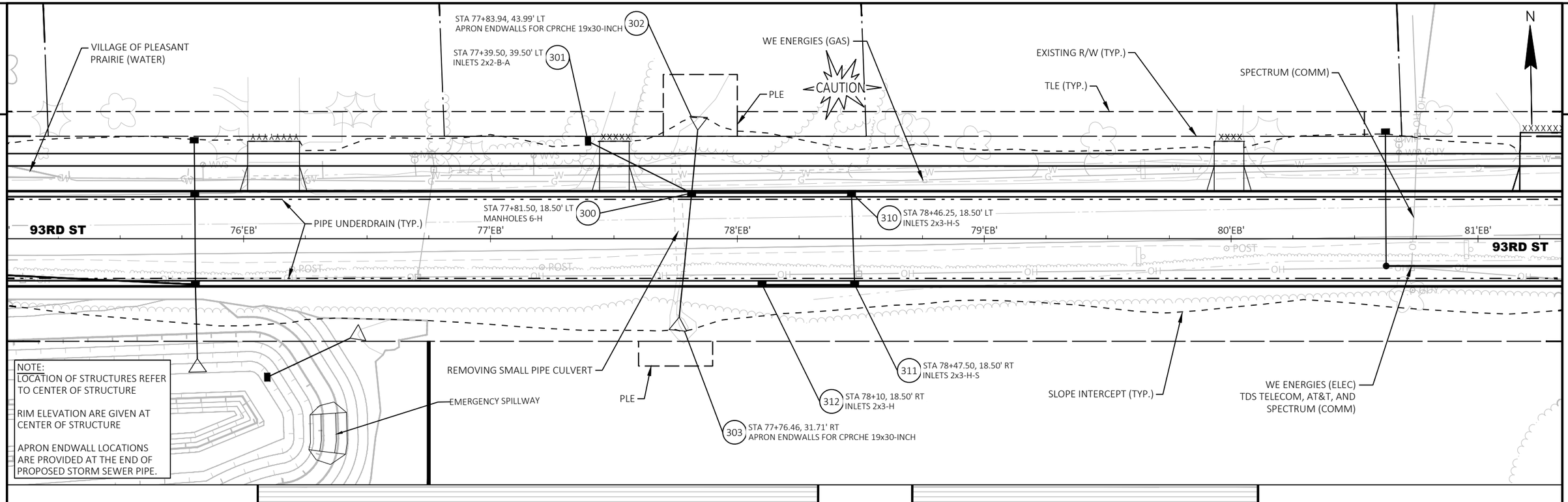
EME



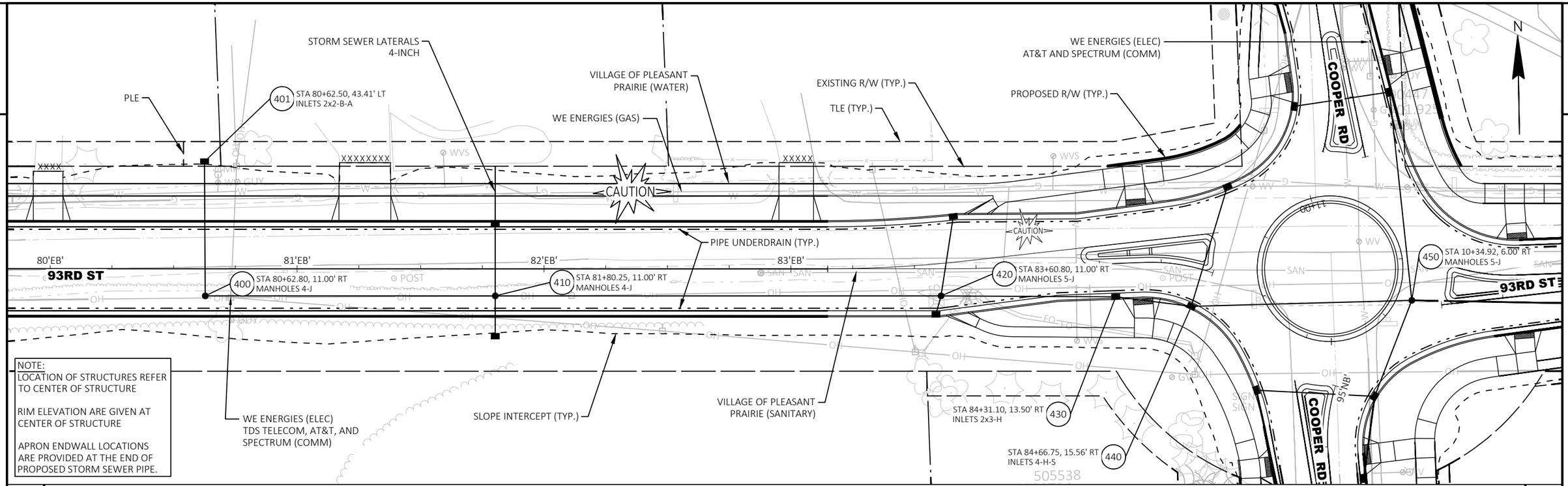


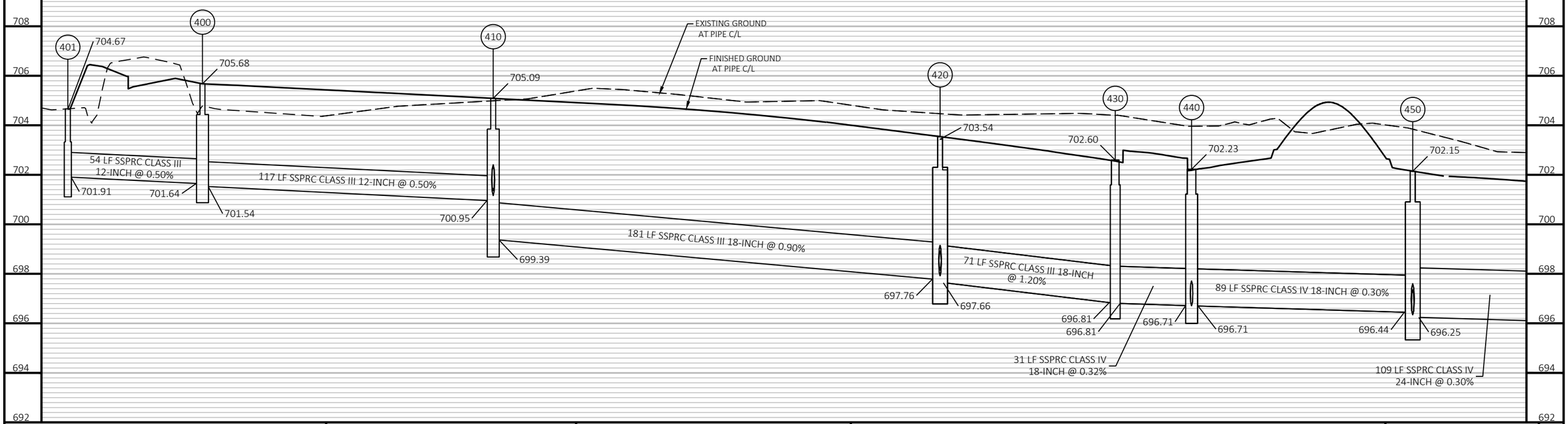


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	STORM SEWER	SHEET 67	E



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	STORM SEWER	SHEET 68	E

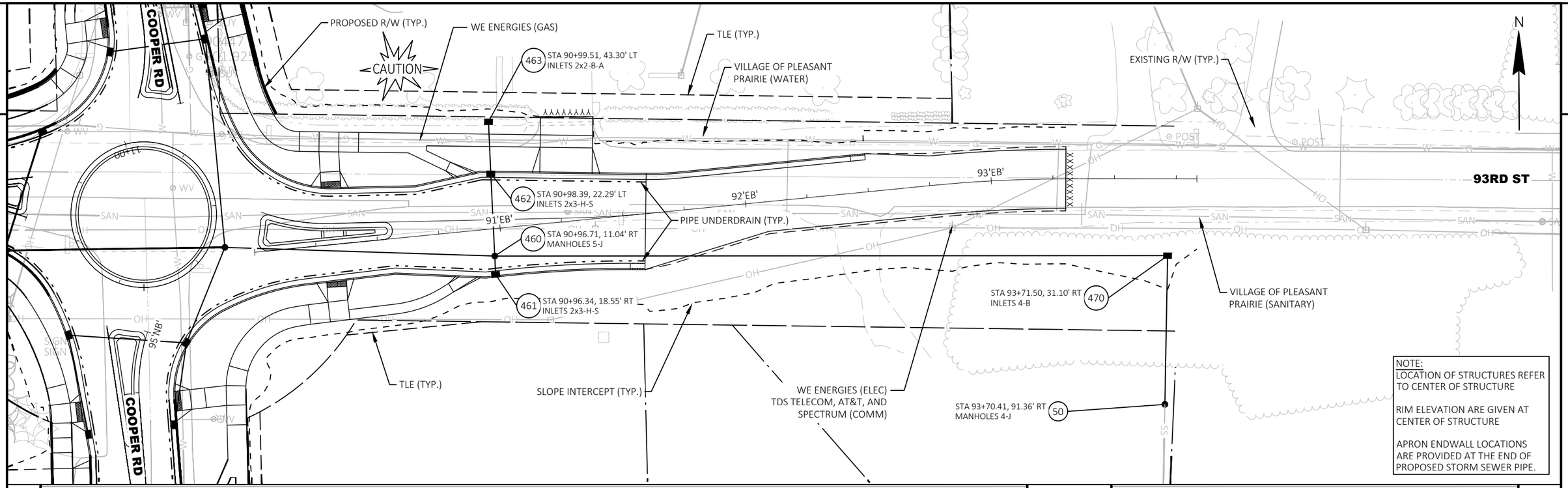


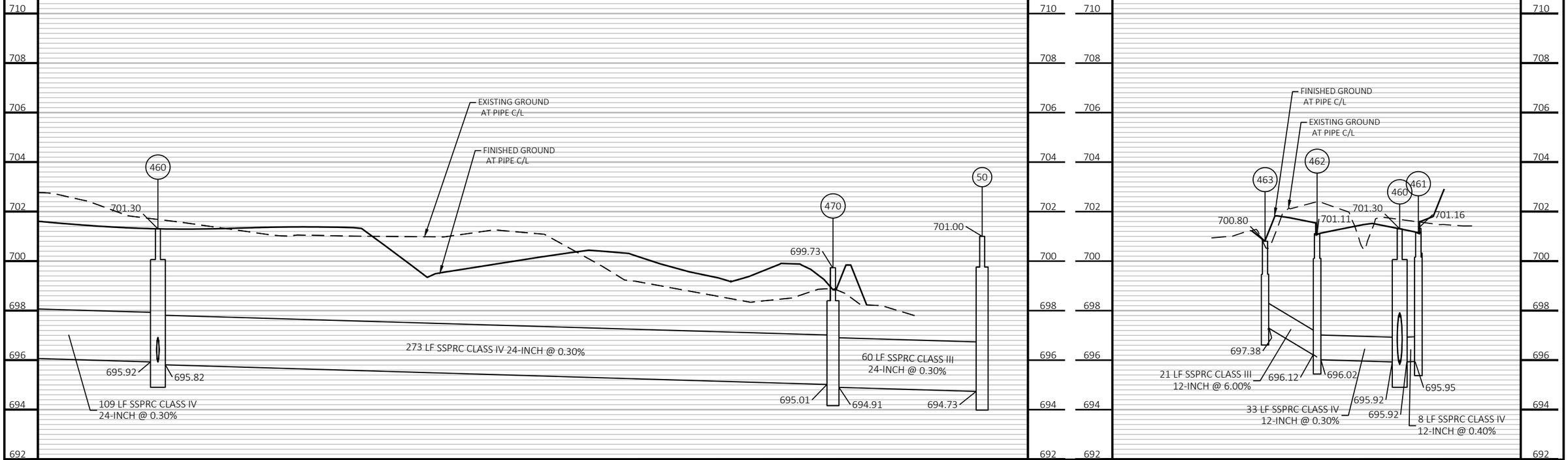


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	STORM SEWER	SHEET 69	E

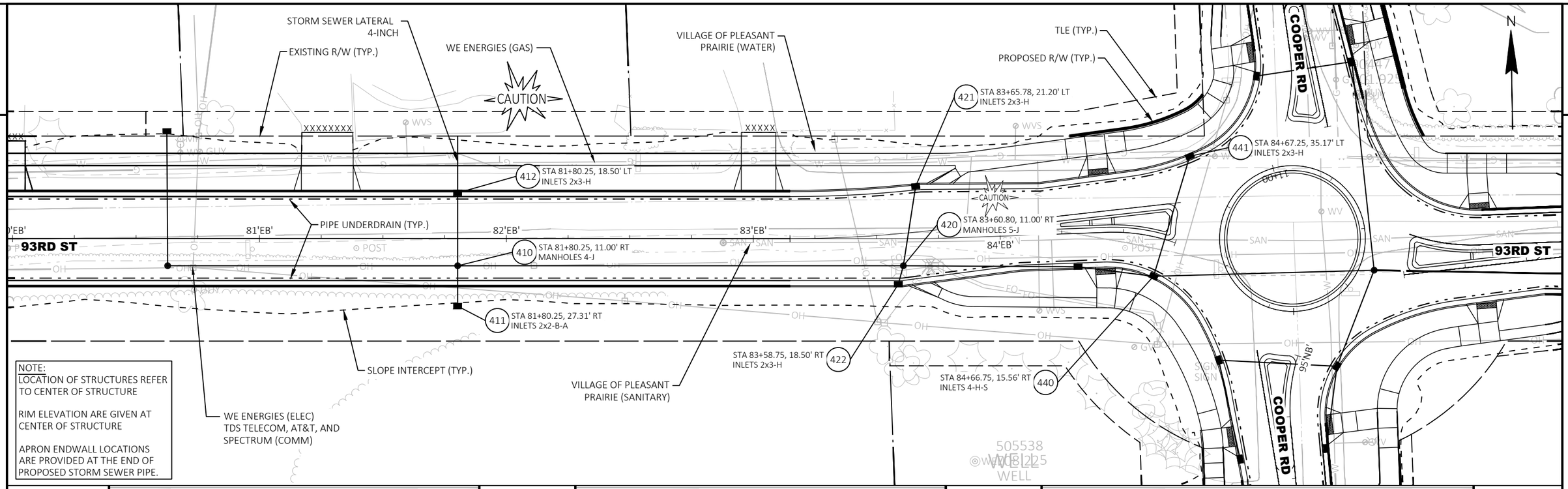
FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\022501-SS.DWG
LAYOUT NAME - RAB-1

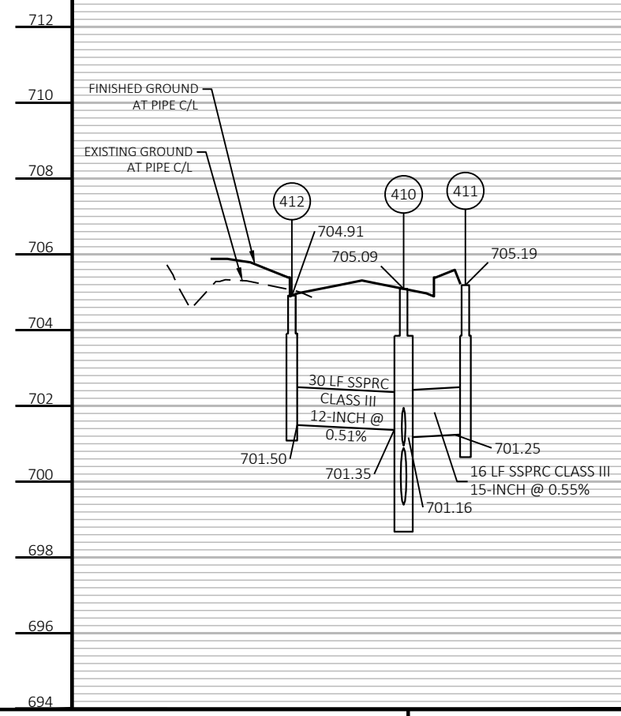
PLOT DATE : 7/22/2026 4:12 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

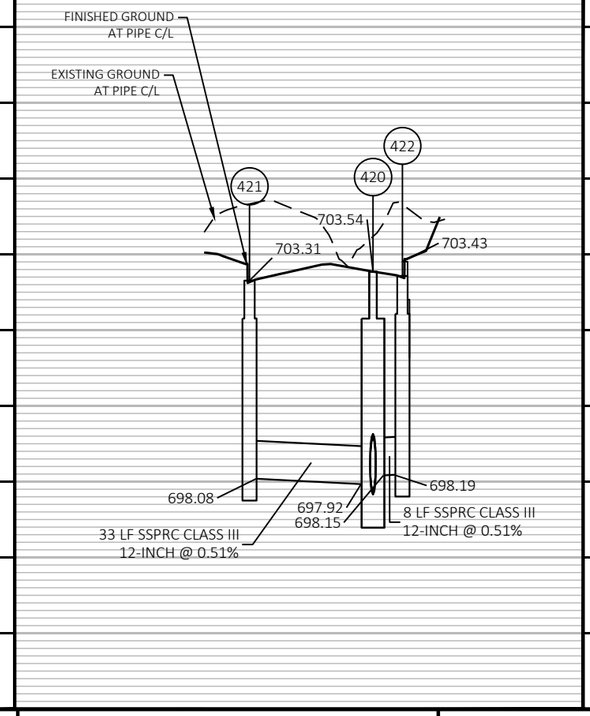


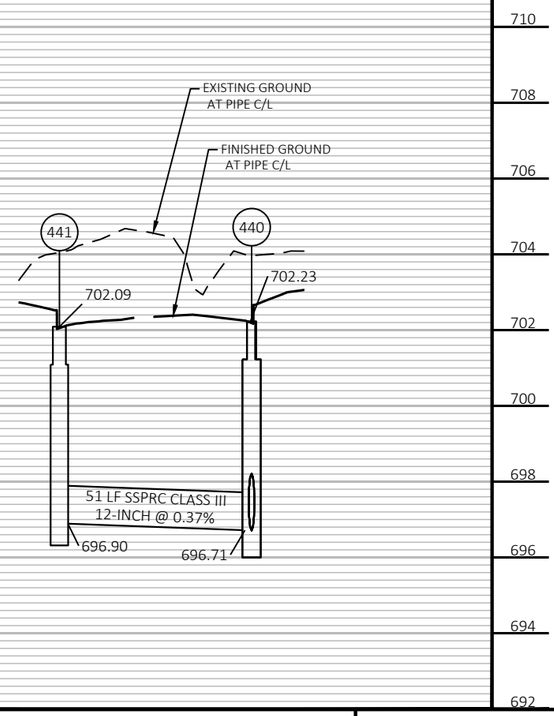


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	STORM SEWER	SHEET 70 E









PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	STORM SEWER	SHEET 71 E

2

STA 95+01.81, 15.97' LT
INLETS 2x3-H-S
455

STA 94+60.85, 13.88' LT
INLETS 2x3-H
456

PROPOSED R/W (TYP.)

452 STA 100+25.95, 24.12' LT
INLETS 2x3-H

TLE (TYP.)

EXISTING R/W (TYP.)

N

93RD ST

COOPER RD

94'NB'

95'NB'

101'NB'

102'NB'

PIPE UNDERDRAIN (TYP.)

STA 94+59.55, 21.27' RT
INLETS 2x3-H
454

STA 94+91.63, 30.89' RT
INLETS 4-H-S
453

WE ENERGIES (ELEC)
TDS TELECOM, AT&T, AND
SPECTRUM (COMM)

STA 10+34.92, 6.00' RT
MANHOLES 5-J
450

451 STA 100+23.75, 14.93' RT
INLETS 2x3-H

VILLAGE OF PLEASANT
PRAIRIE (SANITARY)

WE ENERGIES (GAS)

CAUTION

VILLAGE OF PLEASANT
PRAIRIE (WATER)

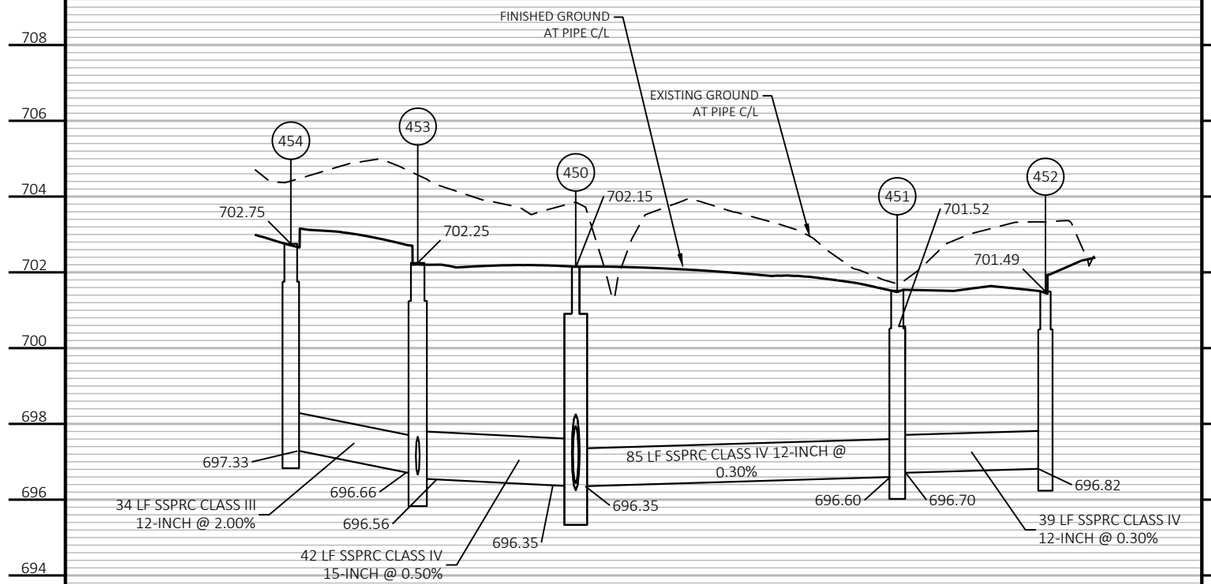
SLOPE INTERCEPT (TYP.)

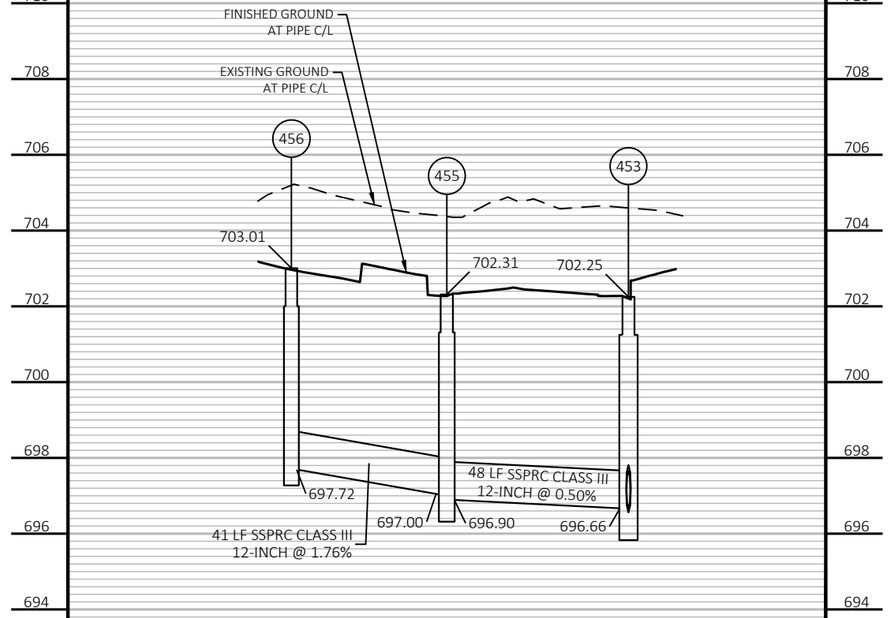
WE ENERGIES (ELEC)
AT&T AND SPECTRUM (COMM)

NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE

RIM ELEVATION ARE GIVEN AT CENTER OF STRUCTURE

APRON ENDWALL LOCATIONS ARE PROVIDED AT THE END OF PROPOSED STORM SEWER PIPE.





PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	STORM SEWER	SHEET 72	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\022501-SS.DWG
LAYOUT NAME - RAB-4

PLOT DATE : 7/22/2026 4:12 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

63RD AVENUE

SIGN

EXISTING R/W

CREEKSIDE CROSSING HOMEOWNERS ASSOCIATION
CREEKSIDE CIR
PLEASANT PRAIRIE, WI 53158

WDNR DELINEATED WETLAND

N

0 20 40

BULKHEAD AND ABANDON EXISTING WATER MAIN

45 DEG BEND
249+61.7, 20.9' LT

CONNECT TO EXISTING WM W/ 16" BUTTERFLY VALVE
249+50.7, 20.8' LT
CONTRACTOR TO FIELD VERIFY SIZE, DEPTH, AND LOCATION OF EXISTING WM

ABANDON EXISTING WATER VALVE

HYDRANT W/ 6" GV
250+13.7, 29.4' LT
GROUND EL = 701.59
I.E. = 695.09

19' - 6" WM PVC @ 0.00% W/ HYDRANT OFFSET

BULKHEAD EXISTING WATER MAIN

ABANDON EXISTING WATER MAIN

246+00 247+00 248+00 249+00 250+00 251+00 252+00

8' MIN

45 DEG BEND
249+72.1, 11.0' LT

16" X 6" TEE
250+14.2, 11.1' LT

93RD STREET

EXISTING R/W

WDNR DELINEATED WETLAND

76TH ST KENOSHA LLC
93RD STREET
PLEASANT PRAIRIE, WI 53158

ALL UTILITY LOCATIONS SHOWN ARE BASED ON A FIELD SURVEY AND AVAILABLE AS-BUILT RECORD DRAWINGS. PRIOR TO THE INSTALLATION OF WATER MAIN, CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES THAT CROSS PROPOSED FACILITIES AND CONFIRM THERE IS PROPER CLEARANCE TO CONSTRUCT THE UTILITY FACILITIES AND SITE FEATURES AS SHOWN. PRIOR TO INSTALLATION OF WATER MAIN, CONTRACTOR SHALL ALSO VERIFY UTILITY LOCATIONS AT CONNECTION POINTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

NOTES:
1. STATION OFFSETS REFERENCE UTILITY ALIGNMENTS
2. INSTALL INSULATION WHERE WATER MAIN PASSES WITHIN TWO FEET OF AN UNDERGROUND STRUCTURE OR PIPE

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 40'

705
700
695
690
685
682

PROPOSED GROUND ABOVE ROADWAY CENTERLINE

EXISTING 42" STORM SEWER CROSSING

EXISTING GROUND ABOVE ROADWAY CENTERLINE

EX SAN MH S1

EXISTING 12" STORM SEWER CROSSING

6' MIN COVER

WATER MAIN INSULATION. SEE CONSTRUCTION DETAILS.

18" MIN SEPARATION

EX 12" RCP

EX 18" RCP

42' - 16" WM PVC @ 1.45%

14' - 16" WM PVC @ 1.05%

11' - 16" WM PVC @ 1.46%

209' - 16" WM PVC @ 1.12%

EX 16" WM DI

PROP 12" SAN

EX 12" SAN

EX 12" SAN

CONNECT TO EXISTING WM W/ 16" BUTTERFLY VALVE
STA 249+50.7 (20.8' LT)
16" I.E. = 692.25
CONTRACTOR TO FIELD VERIFY SIZE, DEPTH, AND LOCATION OF EXISTING WM

45 DEGREE BEND
STA 249+61.7 (20.9'LT)
16" I.E. = 692.41

45 DEGREE BEND
STA 249+72.1 (11.0'LT)
16" I.E. = 692.56

16" X 6" TEE
STA 250+14.2 (11.1'LT)
16" I.E. = 693.18
6" I.E. = 693.60

246+00 247+00 248+00 249+00 250+00 251+00 252+00

PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	93RD STREET WATER MAIN	SHEET 73	E

ALL UTILITY LOCATIONS SHOWN ARE BASED ON A FIELD SURVEY AND AVAILABLE AS-BUILT RECORD DRAWINGS. PRIOR TO THE INSTALLATION OF WATER MAIN, CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES THAT CROSS PROPOSED FACILITIES AND CONFIRM THERE IS PROPER CLEARANCE TO CONSTRUCT THE UTILITY FACILITIES AND SITE FEATURES AS SHOWN. PRIOR TO INSTALLATION OF WATER MAIN, CONTRACTOR SHALL ALSO VERIFY UTILITY LOCATIONS AT CONNECTION POINTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

JOSEPH YOUNG
6110 93RD STREET
PLEASANT PRAIRIE, WI 53158

ALLYN LEROY COON
6100 93RD STREET
PLEASANT PRAIRIE, WI 53158

ANTHONY LEWING
6014 93RD STREET
PLEASANT PRAIRIE, WI 53158

PROPOSED 1¼ " PE WATER SERVICE LENGTH 55 LF. CAP FOR FUTURE CONNECTION

PROPOSED 1¼ " PE WATER SERVICE LENGTH 54 LF. CAP FOR FUTURE CONNECTION

PROPOSED 1¼ " PE WATER SERVICE LENGTH 50 LF. CAP FOR FUTURE CONNECTION

PROPOSED R/W

PROPOSED TLE

EXISTING R/W

HYDRANT W/ 6" GV
254+19.5, 24.8' LT
GROUND EL = 705.90
I.E. = 699.40

REMOVE HYDRANT AND SALVAGE TO VILLAGE. ABANDON EXISTING WATER VALVE

WDNR DELINEATED WETLAND

ABANDON EXISTING WATER MAIN

93RD STREET

16" BUTTERFLY VALVE
254+14.6, 9.3' LT

16' - 6" WM PVC @ 0.00% W/ HYDRANT OFFSET

16" X 6" TEE
254+19.6, 9.2' LT

8' MIN

PROPOSED 1¼ " PE WATER SERVICE LENGTH 51 LF. CAP FOR FUTURE CONNECTION

PROPOSED 1¼ " PE WATER SERVICE LENGTH 50 LF. CAP FOR FUTURE CONNECTION

SCOTT S DANKERT
6031 93RD STREET
PLEASANT PRAIRIE, WI 53158

PHILLIP W ROEMER
6021 93RD STREET
PLEASANT PRAIRIE, WI 53158

NOTES:
1. STATION OFFSETS REFERENCE UTILITY ALIGNMENTS
2. INSTALL INSULATION WHERE WATER MAIN PASSES WITHIN TWO FEET OF AN UNDERGROUND STRUCTURE OR PIPE

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 40'

EXISTING GROUND ABOVE ROADWAY CENTERLINE

PROPOSED GROUND ABOVE ROADWAY CENTERLINE

PROPOSED 12" STORM SEWER CROSSING

SAN MH 4-FT S2

SAN MH 4-FT S3

6' MIN COVER

18" MIN SEPARATION

192' - 16" WM PVC @ 1.31%

5' - 16" WM PVC @ 0.00%

181' - 16" WM PVC @ 0.67%

240' - 16" WM PVC @ 1.53%

EX 16" WM DI

PROPOSED 4" SANITARY LATERAL CROSSING

16" BUTTERFLY VALVE STA 254+14.6 (9.3'LT) 16" I.E. = 698.03

16" X 6" TEE STA 254+19.6 (9.2'LT) 16" I.E. = 698.03 6" I.E. = 698.45

GRADE BREAK STA 252+23.0 (9.87'LT) 16" I.E. = 695.51

GRADE BREAK STA 256+00.2 (8.3'LT) 16" I.E. = 699.24

PROP 12" SAN

710 705 700 695 690 689

252+00 253+00 254+00 255+00 256+00 257+00 258+00

PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	93RD STREET WATER MAIN	SHEET 74 E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\WM_PP.DWG
LAYOUT NAME - WM-2

PLOT DATE : 7/20/2026 12:20 PM PLOT BY : PECK, TYLER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

JOHN J VOGEL
5918 93RD STREET
PLEASANT PRAIRIE, WI 53158

MICHAEL R JAKE
5900 93RD STREET
PLEASANT PRAIRIE, WI 53158

CHRISTOPHER S MIKS
5850 93RD STREET
PLEASANT PRAIRIE, WI 53158

60TH AVENUE

93RD STREET

PROPOSED R/W

REMOVE HYDRANT AND SALVAGE TO VILLAGE. ABANDON EXISTING WATER VALVES

HYDRANT W/ 6" GV
258+94.5, 24.5' LT
GROUND EL = 711.99
I.E. = 705.49

17' - 6" WM PVC @ 0.00% W/ HYDRANT OFFSET

16" X 6" TEE
258+94.5, 8.2' LT

16" BUTTERFLY VALVE
258+40.0, 8.2' LT

16" X 12" TEE
258+43.0, 8.2' LT

16" BUTTERFLY VALVE
258+46.0, 8.2' LT

PROPOSED 1¼ " PE WATER SERVICE LENGTH 33 LF. CAP FOR FUTURE CONNECTION

WDNR DELINEATED WETLAND

PROPOSED 1¼ " PE WATER SERVICE LENGTH 33 LF. CAP FOR FUTURE CONNECTION

ABANDON EXISTING WATER MAIN

PROPOSED TLE

REMOVE HYDRANT AND SALVAGE TO VILLAGE. ABANDON EXISTING WATER VALVE

PROPOSED 1¼ " PE WATER SERVICE LENGTH 39 LF. CONNECT TO EX SERVICE AND REMOVE EX CURB STOP

AIR RELEASE HYDRANT W/ 6" GV
262+88.1, 24.4' LT
GROUND EL = 715.19
I.E. = 708.69

16' - 6" WM PVC @ 0.00%

16" X 6" TEE
262+88.2, 8.3' LT

16" BUTTERFLY VALVE
262+93.2, 8.3' LT

8'MIN

EXISTING R/W

WDNR DELINEATED WETLAND

WDNR DELINEATED WETLAND

PHILLIP W ROEMER
6021 93RD STREET
PLEASANT PRAIRIE, WI 53158

ARBOR ESTATES GROUP, LLC
93RD STREET
PLEASANT PRAIRIE, WI 53158

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NOTES:
1. STATION OFFSETS REFERENCE UTILITY ALIGNMENTS
2. INSTALL INSULATION WHERE WATER MAIN PASSES WITHIN TWO FEET OF AN UNDERGROUND STRUCTURE OR PIPE

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 40'

EXISTING GROUND ABOVE ROADWAY CENTERLINE

PROPOSED GROUND ABOVE ROADWAY CENTERLINE

SAN MH 4-FT S5

SAN MH 4-FT S6

6' MIN COVER

3' - 16" WM PVC @ 0.00%

3' - 16" WM PVC @ 0.00%

49' - 16" WM PVC @ 1.97%

PROPOSED 12" STORM SEWER CROSSING

18" MIN SEPARATION

EX 16" WM DI

196' - 16" WM PVC @ 1.65%

197' - 16" WM PVC @ 0.20%

5' - 16" WM PVC @ 0.00%

161' - 16" WM PVC @ 2.15%

PROPOSED 4" SANITARY LATERAL CROSSING

GRADE BREAK
STA 260+91.0 (8.3'LT)
16" I.E. = 707.10

PROPOSED 4" SANITARY LATERAL CROSSING

16" X 6" TEE
STA 262+88.2 (8.3'LT)
16" I.E. = 707.49
6" I.E. = 707.91

16" BUTTERFLY VALVE
STA 262+93.2 (8.3'LT)
16" I.E. = 707.49

PROP 8" SAN

PROPOSED 4" SANITARY LATERAL CROSSING

16" BUTTERFLY VALVE
STA 258+40.0 (8.2'LT)
16" I.E. = 702.91

16" x 12" TEE
STA 258+43.0 (8.2'LT)
16" I.E. = 702.91
12" I.E. = 703.08

16" BUTTERFLY VALVE
STA 258+46.0 (8.2'LT)
16" I.E. = 702.91

16" X 6" TEE
STA 258+94.5 (8.2'LT)
16" I.E. = 703.86
6" I.E. = 704.28

715
710
705
700
695

258+00 259+00 260+00 261+00 262+00 263+00 264+00

PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	93RD STREET WATER MAIN	SHEET 75 E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\WM_PP.DWG
LAYOUT NAME - WM-3

PLOT DATE : 7/20/2026 12:20 PM PLOT BY : PECK, TYLER PLOT NAME : PLOT SCALE : 1 IN:40 FT

CHRISTOPHER S MIKS
5850 93RD STREET
PLEASANT PRAIRIE, WI 53158

VILLAGE OF PLEASANT PRAIRIE
5726 93RD STREET
PLEASANT PRAIRIE, WI 53158

VILLAGE OF PLEASANT PRAIRIE
93RD STREET
PLEASANT PRAIRIE, WI 53158

EUGENE J WRIGHT
5622 93RD STREET
PLEASANT PRAIRIE, WI 53158

ARBOR ESTATES GROUP, LLC
93RD STREET
PLEASANT PRAIRIE, WI 53158

ARBOR ESTATES GROUP, LLC
93RD STREET
PLEASANT PRAIRIE, WI 53158

WDNR DELINEATED WETLAND

ABANDON EXISTING WATER MAIN

PROPOSED 1¼ " PE WATER SERVICE LENGTH 33 LF. CAP FOR FUTURE CONNECTION

INGRAM PARK DRIVE

PROPOSED TLE

PROPOSED 1¼ " PE WATER SERVICE LENGTH 33 LF. CAP FOR FUTURE CONNECTION

16" X 12" CROSS
267+42.4, 8.5' LT

16" BUTTERFLY VALVE
267+47.5, 8.5' LT

16" BUTTERFLY VALVE
267+37.4, 8.5' LT

8' MIN

264+00 265+00 266+00 267+00 268+00 269+00 270+00

93RD STREET

WDNR DELINEATED WETLAND

EXISTING R/W

N

0 20 40

ALL UTILITY LOCATIONS SHOWN ARE BASED ON A FIELD SURVEY AND AVAILABLE AS-BUILT RECORD DRAWINGS. PRIOR TO THE INSTALLATION OF WATER MAIN, CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES THAT CROSS PROPOSED FACILITIES AND CONFIRM THERE IS PROPER CLEARANCE TO CONSTRUCT THE UTILITY FACILITIES AND SITE FEATURES AS SHOWN. PRIOR TO INSTALLATION OF WATER MAIN, CONTRACTOR SHALL ALSO VERIFY UTILITY LOCATIONS AT CONNECTION POINTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

NOTES:
1. STATION OFFSETS REFERENCE UTILITY ALIGNMENTS
2. INSTALL INSULATION WHERE WATER MAIN PASSES WITHIN TWO FEET OF AN UNDERGROUND STRUCTURE OR PIPE

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 40'

720 715 710 705 700 697

EXISTING GROUND ABOVE ROADWAY CENTERLINE

PROPOSED GROUND ABOVE ROADWAY CENTERLINE

PROPOSED 12" STORM SEWER CROSSING

PROPOSED 12" STORM SEWER CROSSING

EXISTING 15" STORM SEWER CROSSING

PROPOSED 12" STORM SEWER CROSSING

SAN MH 4-FT S7

SAN MH 4-FT S8

6' MIN COVER

18" MIN SEPARATION

5' - 16" WM PVC @ 0.00%

5' - 16" WM PVC @ 0.00%

161' - 16" WM PVC @ 2.78%

417' - 16" WM PVC @ 0.23%

122' - 16" WM PVC @ 0.34%

EX 16" WM DI

EX 16" WM DI

PROP 8" SAN

GRADE BREAK
STA 264+54.5 (8.5'LT)
16" I.E. = 704.03

GRADE BREAK
STA 265+76.7 (8.5'LT)
16" I.E. = 704.45

PROPOSED 6" SANITARY LATERAL CROSSING

16" BUTTERFLY VAVLE
STA 267+37.4 (8.5'LT)
16" I.E. = 708.92

16" X 12" CROSS
STA 267+42.4 (8.5'LT)
16" I.E. = 708.92
12" I.E. = 709.09

16" BUTTERFLY VAVLE
STA 267+47.5 (8.5'LT)
16" I.E. = 708.92

PROPOSED 4" SANITARY LATERAL CROSSING

264+00 265+00 266+00 267+00 268+00 269+00 270+00

PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	93RD STREET WATER MAIN	SHEET 76	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\WM_PP.DWG
LAYOUT NAME - WM-4

PLOT DATE : 7/20/2026 12:20 PM PLOT BY : PECK, TYLER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

2

N

0 20 40

PROPOSED R/W

PHILLIP W ROEMER
6021 93RD STREET
PLEASANT PRAIRIE, WI 53158

ANTHONY LEWING
6014 93RD STREET
PLEASANT PRAIRIE, WI 53158

ABANDON EXISTING WATER VALVE

BULKHEAD EXISTING WATER MAIN

CONNECT TO EXISTING WM W/ 12" SLEEVE
258+27.8, 74.4' LT
CONTRACTOR TO FIELD VERIFY SIZE, DEPTH, AND LOCATION OF EXISTING WM

16" X 12" TEE
258+43.0, 8.2' LT

45 DEG BEND
258+28.0, 69.4' LT

12" BUTTERFLY VALVE
258+42.9, 11.2' LT

45 DEG BEND
258+42.2, 54.7' LT

258+00

259+00

60TH AVENUE

WDNR DELINEATED WETLAND

EXISTING R/W

EXISTING R/W

JOHN J VOGEL
5918 93RD STREET
PLEASANT PRAIRIE, WI 53158

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 40'

NOTES:
1. STATION OFFSETS REFERENCE UTILITY ALIGNMENTS
2. INSTALL INSULATION WHERE WATER MAIN PASSES WITHIN TWO FEET OF AN UNDERGROUND STRUCTURE OR PIPE

715
710
705
700

EXISTING GROUND ABOVE ROADWAY CENTERLINE

PROPOSED GROUND ABOVE ROADWAY CENTERLINE

EXISTING 18" STORM SEWER CROSSING

PROPOSED 18" CULVERT CROSSING

5' - 12" WM PVC @ 2.08%

20' - 12" WM PVC @ 2.08%

43' - 12" WM PVC @ 2.08%

3' - 12" WM PVC @ 2.08%

EX 12" WM

16" X 12" TEE
STA 258+43.0 (8.2'LT)
16" I.E. = 702.91
12" I.E. = 703.08

12" BUTTERFLY VALVE
STA 58+42.9 (11.2'LT)
12" I.E. = 703.14

45 DEG BEND
STA 58+42.2 (54.7'LT)
12" I.E. = 704.05

45 DEG BEND
STA 58+28.0 (69.4'LT)
12" I.E. = 704.47

CONNECT TO EXISTING WM W/ 12" SLEEVE
STA 58+27.9 (74.4'LT)
12" I.E. = 704.58
CONTRACTOR TO FIELD VERIFY SIZE, DEPTH, AND LOCATION OF EXISTING WM

N

0 20 40

PROPOSED TLE

VILLAGE OF PLEASANT PRAIRIE
5726 93RD STREET
PLEASANT PRAIRIE, WI 53158

EXISTING R/W

297+00

288+00

12" X 8" REDUCER
67+42.4, 10.5' LT

8" GV
267+42.4, 13.5' LT

ABANDON EXISTING WATER VALVE

8" X 6" TEE
267+42.4, 44.8' LT

INGRAM PARK DRIVE

HYDRANT
267+42.5, 34.5' RT
GROUND EL = 715.34
I.E. = 708.77

16" X 12" CROSS
267+42.4, 8.5' LT

STUB FOR FUTURE WM
CAP END OF PIPE
267+42.4, 49.8' LT

12" X 6" REDUCER
267+42.5, 31.5' RT

13' - 6" WM PVC @ 0.00% W/ HYDRANT OFFSET

12" BUTTERFLY VALVE
267+42.4, 3.5' LT

HYDRANT W/ 6" GV
267+55.1, 44.8' LT
GROUND EL = 717.03
I.E. = 710.53

BULKHEAD EXISTING WATER MAIN

STEINBRINK LIMITED PARTNERSHIP
93RD STREET
PLEASANT PRAIRIE, WI 53158

REMOVE HYDRANT AND SALVAGE TO VILLAGE. ABANDON EXISTING WATER VALVE

VILLAGE OF PLEASANT PRAIRIE
93RD STREET
PLEASANT PRAIRIE, WI 53158

ALL UTILITY LOCATIONS SHOWN ARE BASED ON A FIELD SURVEY AND AVAILABLE AS-BUILT RECORD DRAWINGS. PRIOR TO THE INSTALLATION OF WATER MAIN, CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES THAT CROSS PROPOSED FACILITIES AND CONFIRM THERE IS PROPER CLEARANCE TO CONSTRUCT THE UTILITY FACILITIES AND SITE FEATURES AS SHOWN. PRIOR TO INSTALLATION OF WATER MAIN, CONTRACTOR SHALL ALSO VERIFY UTILITY LOCATIONS AT CONNECTION POINTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 40'

715
710
705

EXISTING GROUND ABOVE ROADWAY CENTERLINE

PROPOSED GROUND ABOVE ROADWAY CENTERLINE

NOTE:
INGRAM PARK WATER MAIN TO BE INSTALLED AFTER 93RD ST WATER MAIN HAS BEEN INSTALLED, TESTED, AND SEVICES INSTALLED. INSTALL AFTER EXISTING 93RD ST WATER MAIN HAS BEEN ABANDONED.

31' - 8" WM PVC @ 1.42%

3' - 8" WM PVC @ 1.42%

2' - 12" WM PVC @ 1.40%

5' - 12" WM PVC @ 1.43%

35' - 12" WM PVC @ 1.42%

3' - 6" WM PVC @ 0.00%

5' - 8" WM PVC @ 0.00%

HYDRANT
STA 267+42.5 (34.5'RT)
6" I.E. = 708.77

12" X 6" REDUCER
STA 267+42.5 (31.5'RT)
12" I.E. = 708.52
6" I.E. = 708.77

12" BUTTERFLY VALVE
STA 267+42.4 (3.5'LT)
12" I.E. = 709.02

16" x 12" CROSS
STA 67+42.4 (8.5'LT)
16" I.E. = 708.92
12" I.E. = 709.09

12" X 8" REDUCER
STA 67+42.4 (10.5'LT)
12" I.E. = 709.12
8" I.E. = 709.29

8" GATE VALVE
STA 67+42.4 (13.5'LT)
8" I.E. = 709.33

8" X 6" TEE
STA 67+42.4 (44.8'LT)
8" I.E. = 709.77
6" I.E. = 709.85

STUB FOR FUTURE WM
CAP END OF PIPE
STA 67+42.4 (49.8'LT)
8" I.E. = 709.77

REMOVE EXISTING 16" WM IN CONFLICT AFTER EXISTING WM HAS BEEN ABANDONED

PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	93RD STREET WATER MAIN	SHEET 77	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\WM_PP.DWG
LAYOUT NAME - WM-5

PLOT DATE : 7/20/2026 12:20 PM PLOT BY : PECK, TYLER PLOT NAME : PLOT SCALE : 1 IN:40 FT

EUGENE J WRIGHT
5622 93RD STREET
PLEASANT PRAIRIE, WI 53158

ROBIN M BRANDT
5516 93RD STREET
PLEASANT PRAIRIE, WI 53158

ROBIN M BRANDT
5504 93RD STREET
PLEASANT PRAIRIE, WI 53158

THOMAS GRIFFEY
5416 93RD STREET
PLEASANT PRAIRIE, WI 53158

N

0 20 40

WDNR DELINEATED WETLAND

WDNR DELINEATED WETLAND

AIR RELEASE HYDRANT W/ 6" GV
271+64.3, 23.9' LT
GROUND EL = 718.25
I.E. = 711.75

PROPOSED 1¼ " PE WATER SERVICE LENGTH 36 LF.
CONNECT TO EX SERVICE AND REMOVE EX CURB STOP

PROPOSED TLE

ABANDON EXISTING WATER MAIN

HYDRANT W/ 6" GV
275+20.9, 24.0' LT
GROUND EL = 712.61
I.E. = 706.11

PROPOSED 1¼ " PE WATER SERVICE LENGTH 33 LF.
CAP FOR FUTURE CONNECTION

PROPOSED 1¼ " PE WATER SERVICE LENGTH 34 LF.
CONNECT TO EX SERVICE AND REMOVE EX CURB STOP

REMOVE HYDRANT AND SALVAGE TO VILLAGE.
ABANDON EXISTING WATER VALVE

16' - 6" WM PVC @ 0.00% W/ HYDRANT OFFSET

16" BUTTERFLY VALVE
275+25.9, 8.0' LT

16" X 6" TEE
271+64.3, 8.2' LT

16' - 6" WM PVC @ 0.00%

16" X 6" TEE
275+20.9, 8.1' LT

8' MIN

270+00 271+00 272+00 273+00 274+00 275+00 276+00

93RD STREET

WDNR DELINEATED WETLAND

EXISTING R/W

ALL UTILITY LOCATIONS SHOWN ARE BASED ON A FIELD SURVEY AND AVAILABLE AS-BUILT RECORD DRAWINGS. PRIOR TO THE INSTALLATION OF WATER MAIN, CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES THAT CROSS PROPOSED FACILITIES AND CONFIRM THERE IS PROPER CLEARANCE TO CONSTRUCT THE UTILITY FACILITIES AND SITE FEATURES AS SHOWN. PRIOR TO INSTALLATION OF WATER MAIN, CONTRACTOR SHALL ALSO VERIFY UTILITY LOCATIONS AT CONNECTION POINTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

ARBOR ESTATES GROUP, LLC
93RD STREET
PLEASANT PRAIRIE, WI 53158

ARBOR ESTATES GROUP, LLC
5221 93RD STREET
PLEASANT PRAIRIE, WI 53158

NOTES:
1. STATION OFFSETS REFERENCE UTILITY ALIGNMENTS
2. INSTALL INSULATION WHERE WATER MAIN PASSES WITHIN TWO FEET OF AN UNDERGROUND STRUCTURE OR PIPE

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 40'

720 715 710 705 700 697

PROPOSED 12" STORM SEWER CROSSING

18' MIN SEPARATION

SAN MH 4-FT S9

PROPOSED GROUND ABOVE ROADWAY CENTERLINE

PROPOSED 12" STORM SEWER CROSSING

EXISTING GROUND ABOVE ROADWAY CENTERLINE

186' - 16" WM PVC @ 0.98%

EX 16" WM DI

6' MIN COVER

PROPOSED 12" STORM SEWER CROSSING

171' - 16" WM PVC @ 2.02%

5' - 16" WM PVC @ 0.00%

18' MIN SEPARATION

PROP 8" SAN

16" x 6" TEE
STA 271+64.3 (8.2'LT)
16" I.E. = 709.86
6": I.E. = 710.28

PROPOSED 4" SANITARY LATERAL CROSSING

GRADE BREAK
STA 273+49.8 (8.5'LT)
16" I.E. = 708.04

PROPOSED 4" SANITARY LATERAL CROSSING

PROP 8" SAN

16" X 6" TEE
STA 275+20.9 (8.1'LT)
16" I.E. = 704.58
6" I.E. = 705.00

16" BUTTERFLY VALVE
STA 275+25.9 (8.0'LT)
16" I.E. = 704.58

PROPOSED 4" SANITARY LATERAL CROSSING

270+00 271+00 272+00 273+00 274+00 275+00 276+00

PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	93RD STREET WATER MAIN	SHEET 78	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\WM_PP.DWG
LAYOUT NAME - WM-6

PLOT DATE : 7/20/2026 12:20 PM PLOT BY : PECK, TYLER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

THOMAS GRIFFEY
5416 93RD STREET
PLEASANT PRAIRIE, WI 53158

BRIAN CROSS
5400 93RD STREET
PLEASANT PRAIRIE, WI 53158

MARTIN E ROELL
5222 93RD STREET
PLEASANT PRAIRIE, WI 53158

EVAN P JOHNSON
5206 93RD STREET
PLEASANT PRAIRIE, WI 53158

N

0 20 40

REMOVE HYDRANT AND SALVAGE TO VILLAGE. ABANDON EXISTING WATER VALVE

WDNR DELINEATED WETLAND

PROPOSED 1¼ " PE WATER SERVICE LENGTH 33 LF. CONNECT TO EX SERVICE AND REMOVE EX CURB STOP

PROPOSED PLE

PROPOSED TLE

HYDRANT W/ 6" GV
278+57.7, 25.6' LT
GROUND EL = 705.50
I.E. = 699.00

BULKHEAD EXISTING WATER MAIN

BULKHEAD EXISTING WATER MAIN

ABANDON EXISTING WATER MAIN

18' - 6" WM PVC @ 0.00% W/ HYDRANT OFFSET

16" X 6" TEE
278+57.7, 8.4' LT

WDNR DELINEATED WETLAND

PROPOSED 1¼ " PE WATER SERVICE LENGTH 33 LF. CAP FOR FUTURE CONNECTION

REMOVE HYDRANT AND SALVAGE TO VILLAGE. ABANDON EXISTING WATER VALVE

WDNR DELINEATED WETLAND

PROPOSED 1¼ " PE WATER SERVICE LENGTH 40 LF. CONNECT TO EX SERVICE AND REMOVE EX CURB STOP

276+00 277+00 278+00 279+00 8' MIN 280+00 281+00 282+00

93RD STREET

ALL UTILITY LOCATIONS SHOWN ARE BASED ON A FIELD SURVEY AND AVAILABLE AS-BUILT RECORD DRAWINGS. PRIOR TO THE INSTALLATION OF WATER MAIN, CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES THAT CROSS PROPOSED FACILITIES AND CONFIRM THERE IS PROPER CLEARANCE TO CONSTRUCT THE UTILITY FACILITIES AND SITE FEATURES AS SHOWN. PRIOR TO INSTALLATION OF WATER MAIN, CONTRACTOR SHALL ALSO VERIFY UTILITY LOCATIONS AT CONNECTION POINTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

WDNR DELINEATED WETLAND

ARBOR ESTATES GROUP, LLC
5221 93RD STREET
PLEASANT PRAIRIE, WI 53158

EXISTING R/W

WDNR DELINEATED WETLAND

NOTES:
1. STATION OFFSETS REFERENCE UTILITY ALIGNMENTS
2. INSTALL INSULATION WHERE WATER MAIN PASSES WITHIN TWO FEET OF AN UNDERGROUND STRUCTURE OR PIPE

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 40'

710
705
700
695
690
689

SAN MH
4-FT S10

EXISTING GROUND ABOVE ROADWAY CENTERLINE

PROPOSED GROUND ABOVE ROADWAY CENTERLINE

SAN MH
4-FT S11

EXISTING 21" STORM SEWER CROSSING

PROPOSED 19" X 30" STORM SEWER CROSSING

PROPOSED 12" STORM SEWER CROSSING

PROPOSED 12" STORM SEWER CROSSING

6' MIN COVER

212' - 16" WM PVC @ 3.19%

18' MIN SEPARATION

EX 16" WM DI

18' MIN SEPARATION

120' - 16" WM PVC @ 0.27%

393' - 16" WM PVC @ 0.11%

PROPOSED 4" SANITARY LATERAL CROSSING

PROPOSED 4" SANITARY LATERAL CROSSING

PROPOSED 4" SANITARY LATERAL CROSSING

PROP 8" SAN

GRADE BREAK
STA 277+37.5 (8.3'LT)
16" I.E. = 697.83

WATER MAIN INSULATION. SEE CONSTRUCTION DETAILS

16" X 6" TEE
STA 278+57.7 (8.4'LT)
16" I.E. = 697.51
6" I.E. = 697.93

276+00 277+00 278+00 279+00 280+00 281+00 282+00

PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	93RD STREET WATER MAIN	SHEET 79	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\WM_PP.DWG
LAYOUT NAME - WM-7

PLOT DATE : 7/20/2026 12:21 PM PLOT BY : PECK, TYLER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

ALL UTILITY LOCATIONS SHOWN ARE BASED ON A FIELD SURVEY AND AVAILABLE AS-BUILT RECORD DRAWINGS. PRIOR TO THE INSTALLATION OF WATER MAIN, CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES THAT CROSS PROPOSED FACILITIES AND CONFIRM THERE IS PROPER CLEARANCE TO CONSTRUCT THE UTILITY FACILITIES AND SITE FEATURES AS SHOWN. PRIOR TO INSTALLATION OF WATER MAIN, CONTRACTOR SHALL ALSO VERIFY UTILITY LOCATIONS AT CONNECTION POINTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

ERIC DEROHAN
9248 COOPER RD
PLEASANT PRAIRIE, WI 53158

DALE C WELLMAN
9245 COOPER RD
PLEASANT PRAIRIE, WI 53158

N

0 20 40

PROPOSED TLE

PROPOSED R/W

EXISTING R/W

AIR RELEASE HYDRANT W/ 6" GV
282+50.7, 25.0' LT
GROUND EL = 705.21
I.E. = 698.71

ABANDON EXISTING WATER MAIN

PROPOSED 1¼ " PE WATER SERVICE LENGTH 37 LF. CONNECT TO EX SERVICE AND REMOVE EX CURB STOP

ABANDON EXISTING WATER VALVE

396+00

COOPER ROAD

ABANDON EXISTING WATER VALVE

PROPOSED TLE

EXISTING R/W

45 DEG BEND
287+59.7, 15.7' LT

BULKHEAD EXISTING WATER MAIN

CONNECT TO EXISTING WM W/ 16" BUTTERFLY VALVE
287+68, 15.7' LT
CONTRACTOR TO FIELD VERIFY SIZE, DEPTH, AND LOCATION OF EXISTING WM

16" X 6" TEE
282+50.8, 10.4' LT

15' - 6" WM PVC @ 0.00%

16" BUTTERFLY VALVE
282+55.8, 10.5' LT

16" BUTTERFLY VALVE
285+12.6, 6.6' LT

16" X 16" CROSS
285+17.7, 6.5' LT

16" BUTTERFLY VALVE
285+22.8, 6.5' LT

282+00 283+00 284+00 285+00 286+00 287+00

8' MIN

45 DEG BEND
287+37.1, 2.0' RT

ABANDON EXISTING WATER VALVE

93RD STREET

WDNR DELINEATED WETLAND

395+00

EXISTING R/W

PROPOSED 1¼ " PE WATER SERVICE LENGTH 52 LF. CONNECT TO EX SERVICE AND REMOVE EX CURB STOP

PROPOSED TLE

EXISTING R/W

ARBOR ESTATES GROUP, LLC
5221 93RD STREET
PLEASANT PRAIRIE, WI 53158

SALVADOR GUZMAN HERNANDEZ
5149 93RD STREET
PLEASANT PRAIRIE, WI 53158

ARBOR ESTATES GROUP, LLC
93RD STREET
PLEASANT PRAIRIE, WI 53158

NOTES:
1. STATION OFFSETS REFERENCE UTILITY ALIGNMENTS
2. INSTALL INSULATION WHERE WATER MAIN PASSES WITHIN TWO FEET OF AN UNDERGROUND STRUCTURE OR PIPE

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 40'

PROPOSED GROUND ABOVE ROADWAY CENTERLINE

EXISTING GROUND ABOVE ROADWAY CENTERLINE

EX SAN MH S11

EX SAN MH S5

6' MIN COVER

PROPOSED 12" STORM SEWER CROSSING

WATER MAIN INSULATION. SEE CONSTRUCTION DETAILS.

PROPOSED 12" STORM SEWER CROSSING

PROPOSED 12" STORM SEWER CROSSING

PROPOSED 12" STORM SEWER CROSSING

18" MIN SEPARATION

18" MIN SEPARATION

EX 16" WM DI

EX 16" WM DI

5' - 16" WM PVC @ 0.00%

257' - 16" WM PVC @ 1.76%

5' - 16" WM PVC @ 0.00%

5' - 16" WM PVC @ 0.00%

214' - 16" WM PVC @ 0.36%

10' - 16" WM PVC @ 0.31%

29' - 16" WM PVC @ 0.28%

PROP 8" SAN

EX 8" SAN

WATER MAIN INSULATION. SEE CONSTRUCTION DETAILS.

16" X 6" TEE
STA 282+50.8 (10.4'LT)
16" I.E. = 697.09
6" I.E. = 697.51

16" BUTTERFLY VALVE
STA 282+55.8 (10.5'LT)
16" I.E. = 697.09

16" BUTTERFLY VALVE
STA 285+12.6 (6.6'LT)
16" I.E. = 692.57

16" X 16" CROSS
STA 285+17.7 (6.5'LT)
16" I.E. = 692.57

16" BUTTERFLY VALVE
STA 285+22.8 (6.5'LT)
16" I.E. = 692.57

45 DEGREE BEND
STA 287+37.1 (2.0'RT)
16" I.E. = 693.33

45 DEGREE BEND
STA 287+59.7 (15.7'LT)
16" I.E. = 693.41

CONNECT TO EXISTING WM W/ 16" BUTTERFLY VALVE
STA 287+68.2 (15.7'LT)
16" I.E. = 693.45
CONTRACTOR TO FIELD VERIFY SIZE, DEPTH, AND LOCATION OF EXISTING WM

705 700 695 690 685

282+00 283+00 284+00 285+00 286+00 287+00 288+00

PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	93RD STREET WATER MAIN	SHEET 80	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\WM_PP.DWG
LAYOUT NAME - WM-8

PLOT DATE : 7/20/2026 12:21 PM PLOT BY : PECK, TYLER PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SALVADOR GUZMAN HERNANDEZ
5149 93RD STREET
PLEASANT PRAIRIE, WI 53158

PROPOSED TLE

EXISTING R/W

ERIC DEROHAN
9248 COOPER RD
PLEASANT PRAIRIE, WI 53158

HYDRANT W/ 6" GV
396+81.4, 23.9' LT
GROUND EL = 700.90
I.E. = 694.40

PROPOSED R/W

WDNR
DELINEATED
WETLAND

ANDREW CISKOWSKI
9238 COOPER RD
PLEASANT PRAIRIE, WI 53158

N

0 20 40

29' - 6" WM PVC @ 0.00% W/
HYDRANT OFFSET

12" X 6" TEE
394+45.2, 1.6' LT

45 DEG BEND
394+21.1, 1.6' LT

394+00

395+00

285+00

16" BUTTERFLY VALVE
395+54.9, 0.1' LT

396+00

16" X 6" TEE
396+79.9, 4.5' RT

397+00

45 DEG BEND
397+09.5, 5.0' RT

45 DEG BEND
394+16.2, 12.3' RT

45 DEG BEND
394+05.2, 13.5' RT

19' - 6" WM PVC @ 0.00% W/
HYDRANT OFFSET

16" X 12" REDUCER
395+47.3, 0.3' LT

16" X 16" CROSS
395+49.5, 0.3'LT

COOPER ROAD

CONNECT TO EXISTING
WM W/ 12" BUTTERFLY VALVE
394+00.3, 13.4' RT
CONTRACTOR TO FIELD
VERIFY SIZE, DEPTH, AND
LOCATION OF EXISTING WM

REMOVE EXISTING
WATER MAIN

BULKHEAD EXISTING
WATER MAIN

BULKHEAD EXISTING
WATER MAIN

CONNECT TO EXISTING
WM W/ 16" BUTTERFLY VALVE
397+19.2, 12.3' RT
CONTRACTOR TO FIELD
VERIFY SIZE, DEPTH, AND
LOCATION OF EXISTING WM

93RD STREET

PROPOSED 1¼ " PE WATER
SERVICE LENGTH 33 LF.
CONNECT TO EX SERVICE
AND REMOVE EX CURB STOP

REMOVE HYDRANT AND
SALVAGE TO VILLAGE.
ABANDON EXISTING
WATER VALVES

ABANDON EXISTING
WATER MAIN

HYDRANT W/ 6" GV
394+45.3, 16.6' RT
GROUND EL = 703.46
I.E. = 696.96

REMOVE HYDRANT AND
SALVAGE TO VILLAGE.
ABANDON EXISTING
WATER VALVES

ARBOR ESTATES GROUP, LLC
93RD STREET
PLEASANT PRAIRIE, WI 53158

EXISTING R/W

DALE C WELLMAN
9245 COOPER RD
PLEASANT PRAIRIE, WI 53158

RYAN M LAWLER
9235 COOPER RD
PLEASANT PRAIRIE, WI 53158

PROPOSED TLE

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NOTES:
1. STATION OFFSETS REFERENCE UTILITY ALIGNMENTS
2. INSTALL INSULATION WHERE WATER MAIN PASSES WITHIN TWO FEET OF AN UNDERGROUND STRUCTURE OR PIPE

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 40'

PROPOSED GROUND ABOVE
ROADWAY CENTERLINE

EXISTING GROUND
ABOVE ROADWAY
CENTERLINE

EX SAN
MH S100

6' MIN
COVER

5' - 16" WM PVC @ 0.00%

2' - 16" WM PVC @ 0.00%

PROPOSED 12"
STORM
SEWER CROSSING

PROPOSED 18"
STORM
SEWER CROSSING

EXISTING 16"
WATER MAIN
CROSSING

PROPOSED 12"
STORM
SEWER CROSSING

5' - 12" WM PVC @ 2.26%

22' - 12" WM PVC @ 1.62%

24' - 12" WM PVC @ 2.27%

EX 12" WM

18" MIN SEPARATION

102' - 12" WM PVC @ 2.23%

125' - 16" WM PVC @ 0.25%

EX 16" WM DI

3' - 16" WM PVC @ 2.22%

10' - 16" WM PVC @ 0.00%

29' - 16" WM PVC @ 0.25%

EXISTING 8"
SANITARY SEWER
CROSSING

WATER MAIN
INSULATION. SEE
CONSTRUCTION
DETAILS

CONNECT TO EXISTING
WM W/ 12" BUTTERFLY VALVE
STA 394+00.3 (13.4'RT)
12" I.E. = 696.02
CONTRACTOR TO FIELD VERIFY
SIZE, DEPTH, AND LOCATION
OF EXISTING WM

45 DEGREE BEND
STA 394+05.2 (13.5'RT)
12" I.E. = 695.91

45 DEGREE BEND
STA 394+21.1 (1.6'LT)
12" I.E. = 695.56

12" X 6" TEE
STA 394+45.2 (1.6'LT)
12" I.E. = 695.01
6" I.E. = 695.24

16" X 12" REDUCER
STA 395+47.3 (0.3'LT)
16" I.E. = 692.57
12" I.E. = 692.73

16" X 16" CROSS
STA 395+49.5 (0.3'LT)
16" I.E. = 692.57

16" BUTTERFLY VALVE
STA 395+54.9 (0.1'LT)
16" I.E. = 692.57

16" X 6" TEE
STA 396+79.9 (4.5'RT)
16" I.E. = 692.87
6" I.E. = 692.79

45 DEGREE BEND
STA 397+09.5 (5.0'RT)
16" I.E. = 692.95

45 DEGREE BEND
STA 397+16.2 (12.3'RT)
16" I.E. = 692.95

CONNECT TO EXISTING
WM W/ 16" BUTTERFLY VALVE
STA 397+19.2 (12.3'RT)
16" I.E. = 692.88
CONTRACTOR TO FIELD VERIFY
SIZE, DEPTH, AND LOCATION
OF EXISTING WM

705
700
695
690
685
684

393+00 394+00 395+00 396+00 397+00 397+80

PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	COOPER ROAD WATER MAIN	SHEET 81	E

2

CREEKSIDE CROSSING HOMEOWNERS ASSOCIATION
CREEKSIDE CIR
PLEASANT PRAIRIE, WI 53158

WDNR DELINEATED WETLAND

N

0 20 40

63RD AVENUE

SIGN

EXISTING R/W

246+00 247+00 248+00 249+00 250+00 251+00 252+00

93RD STREET

8' MIN

EX SAN MH - S1

CONNECT TO EXISTING SAN MH AND ADJUST TO FINISHED GRADE

ALL UTILITY LOCATIONS SHOWN ARE BASED ON A FIELD SURVEY AND AVAILABLE AS-BUILT RECORD DRAWINGS. PRIOR TO THE INSTALLATION OF SANITARY SEWER, CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES THAT CROSS PROPOSED FACILITIES AND CONFIRM THERE IS PROPER CLEARANCE TO CONSTRUCT THE UTILITY FACILITIES AND SITE FEATURES AS SHOWN. PRIOR TO INSTALLATION OF SANITARY SEWER, CONTRACTOR SHALL ALSO VERIFY UTILITY LOCATIONS AT CONNECTION POINTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

WDNR DELINEATED WETLAND

76TH ST KENOSHA LLC
93RD STREET
PLEASANT PRAIRIE, WI 53158

NOTE: STATION OFFSETS REFERENCE UTILITY ALIGNMENTS

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 40'

705
700
695
690
685
684

CONNECT TO EXISTING SAN MH AND ADJUST TO FINISHED GRADE

PROPOSED GROUND ABOVE ROADWAY CENTERLINE

EXISTING 42" STORM SEWER CROSSING

EXISTING GROUND ABOVE ROADWAY CENTERLINE

EXISTING 12" STORM SEWER CROSSING

EX 12" RCP

EX 18" RCP

EX 16" WM DI

EX 12" SAN

EX 12" SAN

399' - 12" SAN PVC @ 0.22%

EX S1
SAN MH 4-FT
249+97.5, 0.5' RT
RIM: 701.30
(PROPOSED) INV IN: 689.68 E (12")
(EXISTING) INV OUT: 689.07 W (12")

246+00 247+00 248+00 249+00 250+00 251+00 252+00

PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	93RD STREET SANITARY SEWER	SHEET 82	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\SAN_PP.DWG
LAYOUT NAME - SAN-1

PLOT DATE : 7/20/2026 10:55 AM PLOT BY : PECK, TYLER PLOT NAME : PLOT SCALE : 1 IN:40 FT

ALL UTILITY LOCATIONS SHOWN ARE BASED ON A FIELD SURVEY AND AVAILABLE AS-BUILT RECORD DRAWINGS. PRIOR TO THE INSTALLATION OF SANITARY SEWER, CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES THAT CROSS PROPOSED FACILITIES AND CONFIRM THERE IS PROPER CLEARANCE TO CONSTRUCT THE UTILITY FACILITIES AND SITE FEATURES AS SHOWN. PRIOR TO INSTALLATION OF SANITARY SEWER, CONTRACTOR SHALL ALSO VERIFY UTILITY LOCATIONS AT CONNECTION POINTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

JOSEPH YOUNG
6110 93RD STREET
PLEASANT PRAIRIE, WI 53158

4" PVC SAN LATERAL @ 1.60% - 65'
CONNECT TO MAIN AT STA 254+03.4 W/ TEE
4" IE MAIN: 696.14 4" IE ROW: 697.17
RISER HEIGHT: 5.5'
CAP AT R/W W/ CLEANOUT

4" PVC SAN LATERAL @ 1.60% - 63'
CONNECT TO MAIN AT STA 254+70.4 W/ TEE
4" IE MAIN: 696.48 4" IE ROW: 697.49
RISER HEIGHT: 5.7'
CAP AT R/W W/ CLEANOUT

ALLYN LEROY COON
6100 93RD STREET
PLEASANT PRAIRIE, WI 53158

ANTHONY LEWING
6014 93RD STREET
PLEASANT PRAIRIE, WI 53158

4" PVC SAN LATERAL @ 2.08% - 59'
CONNECT TO MAIN AT STA 257+21.3 W/ TEE
4" IE MAIN: 698.44 4" IE ROW: 699.65
RISER HEIGHT: 7.1'
CAP AT R/W W/ CLEANOUT

PROPOSED TLE
PROPOSED R/W
WDNR DELINEATED WETLAND
WDNR DELINEATED WETLAND
EXISTING R/W
93RD STREET
8' MIN
SAN MH - S2
SAN MH - S3

4" PVC SAN LATERAL @ 2.08% - 43'
CONNECT TO MAIN AT STA 255+07.9 W/ TEE
4" IE MAIN: 697.68 4" IE ROW: 698.56
RISER HEIGHT: 6.8'
CAP AT R/W W/ CLEANOUT

4" PVC SAN LATERAL @ 2.08% - 42'
CONNECT TO MAIN AT STA 256+91.3 W/ TEE
4" IE MAIN: 698.15 4" IE ROW: 699.02
RISER HEIGHT: 6.8'
CAP AT R/W W/ CLEANOUT

SCOTT S DANKERT
6031 93RD STREET
PLEASANT PRAIRIE, WI 53158

PHILLIP W ROEMER
6021 93RD STREET
PLEASANT PRAIRIE, WI 53158

NOTE: STATION OFFSETS REFERENCE UTILITY ALIGNMENTS

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 40'

EXISTING GROUND ABOVE ROADWAY CENTERLINE
PROPOSED GROUND ABOVE ROADWAY CENTERLINE
PROPOSED 12" STORM SEWER CROSSING
PROPOSED 12" STORM SEWER CROSSING
PROPOSED 12" STORM SEWER CROSSING
PROPOSED 12" STORM SEWER CROSSING
PROP 16" WM PVC
EX 16" WM DI
4" SANITARY RISER SEE DETAILS
4" SANITARY RISER SEE DETAILS
4" SANITARY RISER SEE DETAILS
4" SANITARY RISER SEE DETAILS

S2
SAN MH 4-FT
253+95.5, 0.0' LT
RIM: 705.41
INV IN: 690.66 E (12")
INV OUT: 690.56 W (12")

400' - 12" SAN PVC @ 0.22%

S3
SAN MH 4-FT
257+94.5, 0.0'
RIM: 710.11
INV IN: 691.64 E (12")
INV OUT: 691.54 W (12")

710
705
700
695
690
689

252+00 253+00 254+00 255+00 256+00 257+00 258+00

PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	93RD STREET SANITARY SEWER	SHEET 83	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\SAN_PP.DWG
LAYOUT NAME - SAN-2

PLOT DATE : 7/20/2026 10:55 AM PLOT BY : PECK, TYLER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

JOHN J VOGEL
5918 93RD STREET
PLEASANT PRAIRIE, WI 53158

MICHAEL R JAKE
5900 93RD STREET
PLEASANT PRAIRIE, WI 53158

CHRISTOPHER S MIKS
5850 93RD STREET
PLEASANT PRAIRIE, WI 53158

60TH AVENUE

PROPOSED R/W

PROPOSED TLE

4" PVC SAN LATERAL @ 2.08% - 42'
CONNECT TO MAIN AT STA 260+40.4 W/ TEE
4" IE MAIN: 704.35 4" IE ROW: 705.21
RISER HEIGHT: 12.2'
CAP AT R/W W/ CLEANOUT

4" PVC SAN LATERAL @ 2.08% - 42'
CONNECT TO MAIN AT STA 261+20.3 W/ TEE
4" IE MAIN: 704.70 4" IE ROW: 705.57
RISER HEIGHT: 6.4'
CAP AT R/W W/ CLEANOUT

4" PVC SAN LATERAL @ 1.04% - 42'
CONNECT TO MAIN AT STA 263+82.9 W/ WYE
4" IE MAIN: 700.18 4" IE ROW: 700.61
CAP AT R/W

EXISTING R/W

WDNR DELINEATED WETLAND

258+00 259+00 260+00 261+00 262+00 263+00 264+00

93RD STREET

8'MIN

SAN MH - S5

SAN MH - S6

37' - 12" SAN PVC @ 0.22%

END PIPE WITH BELL END. CAP FOR FUTURE EXTENSION.
12" I.E. = 692.50

EXISTING R/W

WDNR DELINEATED WETLAND

PHILLIP W ROEMER
6021 93RD STREET
PLEASANT PRAIRIE, WI 53158

WDNR DELINEATED WETLAND

ARBOR ESTATES GROUP, LLC
93RD STREET
PLEASANT PRAIRIE, WI 53158

ALL UTILITY LOCATIONS SHOWN ARE BASED ON A FIELD SURVEY AND AVAILABLE AS-BUILT RECORD DRAWINGS. PRIOR TO THE INSTALLATION OF SANITARY SEWER, CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES THAT CROSS PROPOSED FACILITIES AND CONFIRM THERE IS PROPER CLEARANCE TO CONSTRUCT THE UTILITY FACILITIES AND SITE FEATURES AS SHOWN. PRIOR TO INSTALLATION OF SANITARY SEWER, CONTRACTOR SHALL ALSO VERIFY UTILITY LOCATIONS AT CONNECTION POINTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

NOTE: STATION OFFSETS
REFERENCE UTILITY ALIGNMENTS

VERTICAL SCALE: 1" = 6'
HORIZONTAL SCALE: 1" = 40'

EXISTING GROUND ABOVE ROADWAY CENTERLINE

PROPOSED GROUND ABOVE ROADWAY CENTERLINE

PROPOSED 12" STORM SEWER CROSSING

EX 16" WM DI

PROP 16" WM PVC

4" SANITARY RISER SEE DETAILS

4" SANITARY RISER SEE DETAILS

247' - 8" SAN PVC @ 0.50%

OUTSIDE DROP MANHOLE SEE SPECIAL PROVISIONS

S5
SAN MH 4-FT
261+03.1, 0.0' RT
RIM: 714.58
INV IN: 698.18 E (8")
INV IN: 692.42 S (12")
INV IN: 692.82 E (8")
INV OUT: 692.32 W (12")

S6
SAN MH 4-FT
263+50.0, 0.1' RT
RIM: 713.75
INV IN: 699.51 E (8")
INV OUT: 699.41 W (8")

309' - 12" SAN PVC @ 0.22%

715 710 705 700 695 690

258+00 259+00 260+00 261+00 262+00 263+00 264+00

PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	93RD STREET SANITARY SEWER	SHEET 84	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\SAN_PP.DWG
LAYOUT NAME - SAN-3

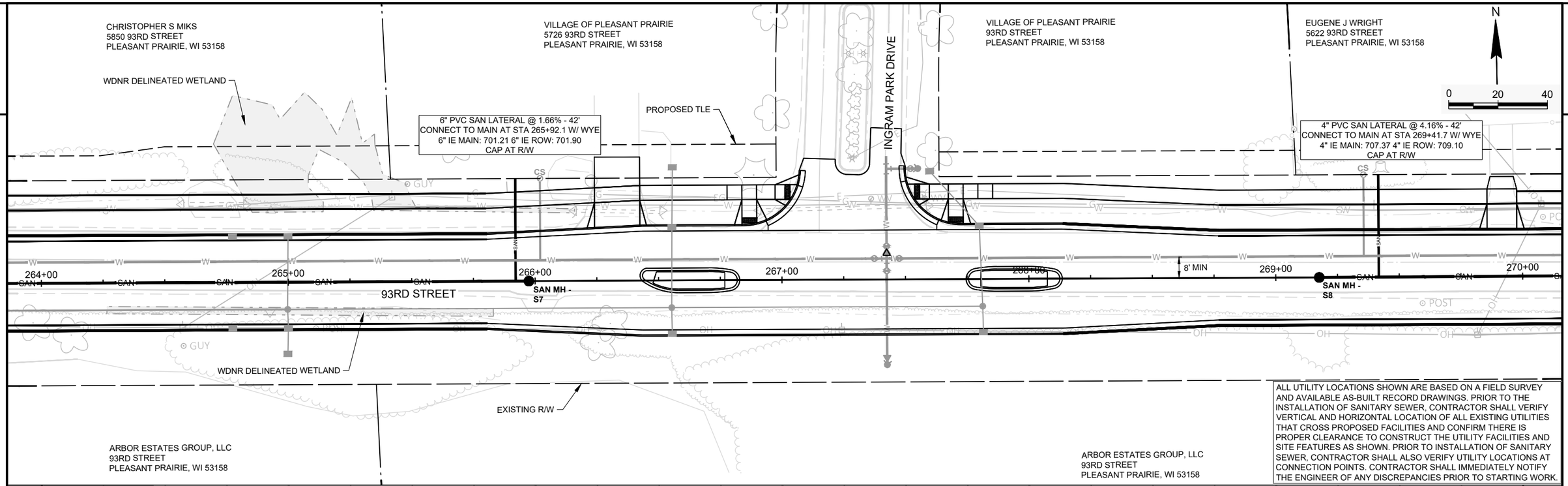
PLOT DATE : 7/20/2026 10:55 AM PLOT BY : PECK, TYLER PLOT NAME : PLOT SCALE : 1 IN:40 FT

CHRISTOPHER S MIKS
5850 93RD STREET
PLEASANT PRAIRIE, WI 53158

VILLAGE OF PLEASANT PRAIRIE
5726 93RD STREET
PLEASANT PRAIRIE, WI 53158

VILLAGE OF PLEASANT PRAIRIE
93RD STREET
PLEASANT PRAIRIE, WI 53158

EUGENE J WRIGHT
5622 93RD STREET
PLEASANT PRAIRIE, WI 53158



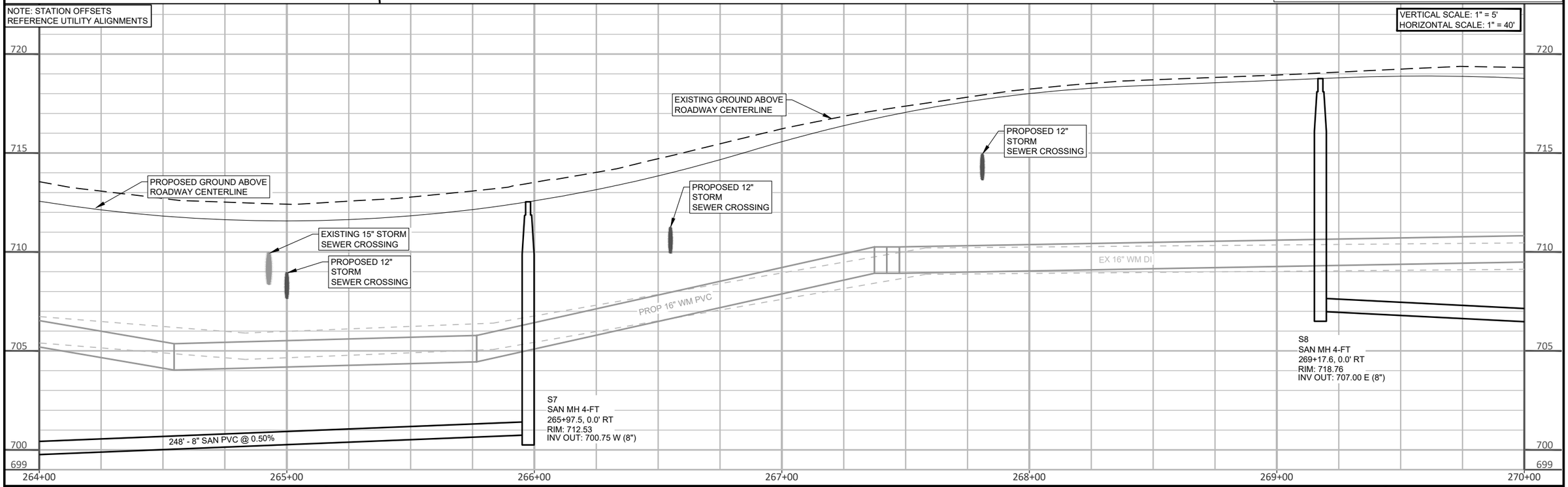
ARBOR ESTATES GROUP, LLC
93RD STREET
PLEASANT PRAIRIE, WI 53158

ARBOR ESTATES GROUP, LLC
93RD STREET
PLEASANT PRAIRIE, WI 53158

ALL UTILITY LOCATIONS SHOWN ARE BASED ON A FIELD SURVEY AND AVAILABLE AS-BUILT RECORD DRAWINGS. PRIOR TO THE INSTALLATION OF SANITARY SEWER, CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES THAT CROSS PROPOSED FACILITIES AND CONFIRM THERE IS PROPER CLEARANCE TO CONSTRUCT THE UTILITY FACILITIES AND SITE FEATURES AS SHOWN. PRIOR TO INSTALLATION OF SANITARY SEWER, CONTRACTOR SHALL ALSO VERIFY UTILITY LOCATIONS AT CONNECTION POINTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

NOTE: STATION OFFSETS
REFERENCE UTILITY ALIGNMENTS

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 40'



PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	93RD STREET SANITARY SEWER	SHEET 85	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\SAN_PP.DWG
LAYOUT NAME - SAN-4

PLOT DATE : 7/20/2026 10:55 AM PLOT BY : PECK, TYLER PLOT NAME : PLOT SCALE : 1 IN:40 FT

N

0 20 40

EUGENE J WRIGHT
5622 93RD STREET
PLEASANT PRAIRIE, WI 53158

ROBIN M BRANDT
5516 93RD STREET
PLEASANT PRAIRIE, WI 53158

ROBIN M BRANDT
5504 93RD STREET
PLEASANT PRAIRIE, WI 53158

THOMAS GRIFFEY
5416 93RD STREET
PLEASANT PRAIRIE, WI 53158

WDNR DELINEATED WETLAND

WDNR DELINEATED WETLAND

PROPOSED TLE

EXISTING R/W

4" PVC SAN LATERAL @ 2.50% - 42'
CONNECT TO MAIN AT STA 273+36.4 W/ TEE
4" IE MAIN: 706.81 4" IE ROW: 707.85
RISER HEIGHT: 3.3'
CAP AT R/W W/ CLEANOUT

4" PVC SAN LATERAL @ 2.98% - 42'
CONNECT TO MAIN AT STA 274+60.4 W/ WYE
4" IE MAIN: 700.94 4" IE ROW: 702.18
CAP AT R/W

4" PVC SAN LATERAL @ 2.08% - 42'
CONNECT TO MAIN AT STA 275+57.5 W/ TEE
4" IE MAIN: 701.89 4" IE ROW: 702.76
RISER HEIGHT: 3.9'
CAP AT R/W W/ CLEANOUT

270+00 271+00 272+00 273+00 274+00 275+00 276+00

8' MIN

SAN MH - S9

93RD STREET

WDNR DELINEATED WETLAND

ARBOR ESTATES GROUP, LLC
93RD STREET
PLEASANT PRAIRIE, WI 53158

ARBOR ESTATES GROUP, LLC
5221 93RD STREET
PLEASANT PRAIRIE, WI 53158

ALL UTILITY LOCATIONS SHOWN ARE BASED ON A FIELD SURVEY AND AVAILABLE AS-BUILT RECORD DRAWINGS. PRIOR TO THE INSTALLATION OF SANITARY SEWER, CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES THAT CROSS PROPOSED FACILITIES AND CONFIRM THERE IS PROPER CLEARANCE TO CONSTRUCT THE UTILITY FACILITIES AND SITE FEATURES AS SHOWN. PRIOR TO INSTALLATION OF SANITARY SEWER, CONTRACTOR SHALL ALSO VERIFY UTILITY LOCATIONS AT CONNECTION POINTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

NOTE: STATION OFFSETS REFERENCE UTILITY ALIGNMENTS

VERTICAL SCALE: 1" = 6'
HORIZONTAL SCALE: 1" = 40'

720 715 710 705 700 695

PROPOSED 12" STORM SEWER CROSSING

EXISTING GROUND ABOVE ROADWAY CENTERLINE

PROPOSED 12" STORM SEWER CROSSING

PROPOSED GROUND ABOVE ROADWAY CENTERLINE

PROP 16" WM PVC

EX 16" WM DI

PROPOSED 12" STORM SEWER CROSSING

380' - 8" SAN PVC @ 0.63%

4" SANITARY RISER SEE DETAILS

S9
SAN MH 4-FT
272+97.5, 0.0' RT
RIM: 718.33
INV IN: 704.60 W (8")
INV OUT: 704.50 E (8")

4" SANITARY RISER SEE DETAILS

380' - 8" SAN PVC @ 2.49%

270+00 271+00 272+00 273+00 274+00 275+00 276+00

PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	93RD STREET SANITARY SEWER	SHEET 86 E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\SAN_PP.DWG
LAYOUT NAME - SAN-5

PLOT DATE : 7/20/2026 10:55 AM PLOT BY : PECK, TYLER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

ALL UTILITY LOCATIONS SHOWN ARE BASED ON A FIELD SURVEY AND AVAILABLE AS-BUILT RECORD DRAWINGS. PRIOR TO THE INSTALLATION OF SANITARY SEWER, CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES THAT CROSS PROPOSED FACILITIES AND CONFIRM THERE IS PROPER CLEARANCE TO CONSTRUCT THE UTILITY FACILITIES AND SITE FEATURES AS SHOWN. PRIOR TO INSTALLATION OF SANITARY SEWER, CONTRACTOR SHALL ALSO VERIFY UTILITY LOCATIONS AT CONNECTION POINTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

BRIAN CROSS
5400 93RD STREET
PLEASANT PRAIRIE, WI 53158

MARTIN E ROELL
5222 93RD STREET
PLEASANT PRAIRIE, WI 53158

EVAN P JOHNSON
5206 93RD STREET
PLEASANT PRAIRIE, WI 53158

N

0 20 40

WDNR DELINEATED WETLAND

4" PVC SAN LATERAL @ 4.16% - 42'
CONNECT TO MAIN AT STA 277+35.0 W/ TEE
4" IE MAIN: 696.54 4" IE ROW: 698.27
RISER HEIGHT: 1.9'
CAP AT R/W W/ CLEANOUT

PROPOSED TLE

4" PVC SAN LATERAL @ 2.10% - 42'
CONNECT TO MAIN AT STA 279+85.0 W/ WYE
4" IE MAIN: 694.18 4" IE ROW: 695.06
CAP AT R/W

4" PVC SAN LATERAL @ 2.50% - 43'
CONNECT TO MAIN AT STA 281+79.2 W/ TEE
4" IE MAIN: 695.77 4" IE ROW: 696.83
RISER HEIGHT: 3.0'
CAP AT R/W W/ CLEANOUT

276+00 277+00 278+00 279+00 280+00 281+00 282+00

SAN MH - S10

SAN MH - S11

8' MIN

93RD STREET

EXISTING R/W

ARBOR ESTATES GROUP, LLC
5221 93RD STREET
PLEASANT PRAIRIE, WI 53158

NOTE: STATION OFFSETS REFERENCE UTILITY ALIGNMENTS

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 40'

EXISTING GROUND ABOVE ROADWAY CENTERLINE

PROPOSED GROUND ABOVE ROADWAY CENTERLINE

EXISTING 21" STORM SEWER CROSSING

PROPOSED 19" X 30" STORM SEWER CROSSING

PROPOSED 12" STORM SEWER CROSSING

PROPOSED 12" STORM SEWER CROSSING

EX 16" WM DI

PROP 16" WM PVC

4" SANITARY RISER SEE DETAILS

4" SANITARY RISER SEE DETAILS

378' - 8" SAN PVC @ 0.40%

234' - 8" SAN PVC @ 0.40%

S10
SAN MH 4-FT
276+77.5, 0.0'
RIM: 707.29
INV IN: 695.02 W (8")
INV OUT: 694.92 E (8")

S11
SAN MH 4-FT
280+54.8, 0.1' LT
RIM: 705.92
INV IN: 693.41 W (8")
INV OUT: 693.31 E (8")

710 705 700 695 690 689

PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	93RD STREET SANITARY SEWER	SHEET 87	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\SAN_PP.DWG
LAYOUT NAME - SAN-6

PLOT DATE : 7/20/2026 10:55 AM PLOT BY : PECK, TYLER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

ALL UTILITY LOCATIONS SHOWN ARE BASED ON A FIELD SURVEY AND AVAILABLE AS-BUILT RECORD DRAWINGS. PRIOR TO THE INSTALLATION OF SANITARY SEWER, CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES THAT CROSS PROPOSED FACILITIES AND CONFIRM THERE IS PROPER CLEARANCE TO CONSTRUCT THE UTILITY FACILITIES AND SITE FEATURES AS SHOWN. PRIOR TO INSTALLATION OF SANITARY SEWER, CONTRACTOR SHALL ALSO VERIFY UTILITY LOCATIONS AT CONNECTION POINTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

ERIC DEROHAN
9248 COOPER RD
PLEASANT PRAIRIE, WI 53158

DALE C WELLMAN
9245 COOPER RD
PLEASANT PRAIRIE, WI 53158

ADJUST EXISTING SAN MH TO FINISHED GRADE

PROPOSED TLE

PROPOSED R/W

COOPER ROAD

8' MIN

EX SAN MH - S12

282+00

283+00

284+00

285+00

286+00

287+00

288+00

396+00

395+00

93RD STREET

WDNR DELINEATED WETLAND

EXISTING R/W

CONNECT TO EXISTING SAN MH AND ADJUST TO FINISHED GRADE

ADJUST EXISTING SAN MH TO FINISHED GRADE

ARBOR ESTATES GROUP, LLC
5221 93RD STREET
PLEASANT PRAIRIE, WI 53158

SALVADOR GUZMAN HERNANDEZ
5149 93RD STREET
PLEASANT PRAIRIE, WI 53158

ARBOR ESTATES GROUP, LLC
93RD STREET
PLEASANT PRAIRIE, WI 53158

N

0 20 40

NOTE: STATION OFFSETS REFERENCE UTILITY ALIGNMENTS

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 40'

PROPOSED GROUND ABOVE ROADWAY CENTERLINE

CONNECT TO EXISTING SANITARY MH AND ADJUST TO FINISHED GRADE

EXISTING GROUND ABOVE ROADWAY CENTERLINE

ADJUST EXISTING SANITARY MANHOLE TO FINISHED GRADE

EX 16" WM DI

PROP 16" WM PVC

EX 8" SAN

EX S12
SAN MH 4-FT
282+87.9, 1.6' RT
RIM: 704.59
(PROPOSED) INV IN: 692.38 W (8")
(EXISTING) INV OUT: 692.13 E (8")

705
700
695
690
686

282+00 283+00 284+00 285+00 286+00 287+00 288+00

PROJECT NO: 3830-01-71	HWY: 93RD STREET	COUNTY: KENOSHA	93RD STREET SANITARY SEWER	SHEET 88	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\SAN_PP.DWG
LAYOUT NAME - SAN-7

PLOT DATE : 7/20/2026 10:56 AM PLOT BY : PECK, TYLER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

2

2

63RD AVE

93RD ST

47'EB' 48'EB' 49'EB' 50'EB' 51'EB' 52'EB'

+33'EB'

+71'EB'

+64'EB'

SPEED LIMIT 35

(EXISTING SIGN TO REMAIN)

W4

DY4

9'

N

LEGEND

LABEL	DESCRIPTION
CBY	MARKING CURB EPOXY, YELLOW
INY	MARKING ISLAND NOSE EPOXY, YELLOW
W4	MARKING LINE EPOXY 4-INCH, WHITE
XW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
Y4	MARKING LINE EPOXY 4-INCH, YELLOW
DY4	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
SL18	MARKING STOP LINE EPOXY 18-INCH, WHITE
DOTD	MARKING DOTTED EXTENSION EPOXY 18-INCH, WHITE, 2' SEG., 2' GAP
W4-3	MARKING LINE EPOXY 4-INCH, WHITE, 3' SEG., 9' GAP
DIAG	MARKING DIAGONAL, 12-INCH, YELLOW, 25-FOOT SPACING

(X-X) DENOTES PROPOSED SIGN NUMBER (CORRESPONDS TO MISCELLANEOUS QUANTITIES)

(M-X) DENOTES MOVING SIGNS TYPE II NUMBER (CORRESPONDS TO MISCELLANEOUS QUANTITIES)

52'EB' 53'EB' 54'EB' 55'EB' 56'EB' 57'EB' 58'EB'

+49'EB'

+00'EB'

6'

11'

1-1

SPEED LIMIT 35

R2-1 24"X30"

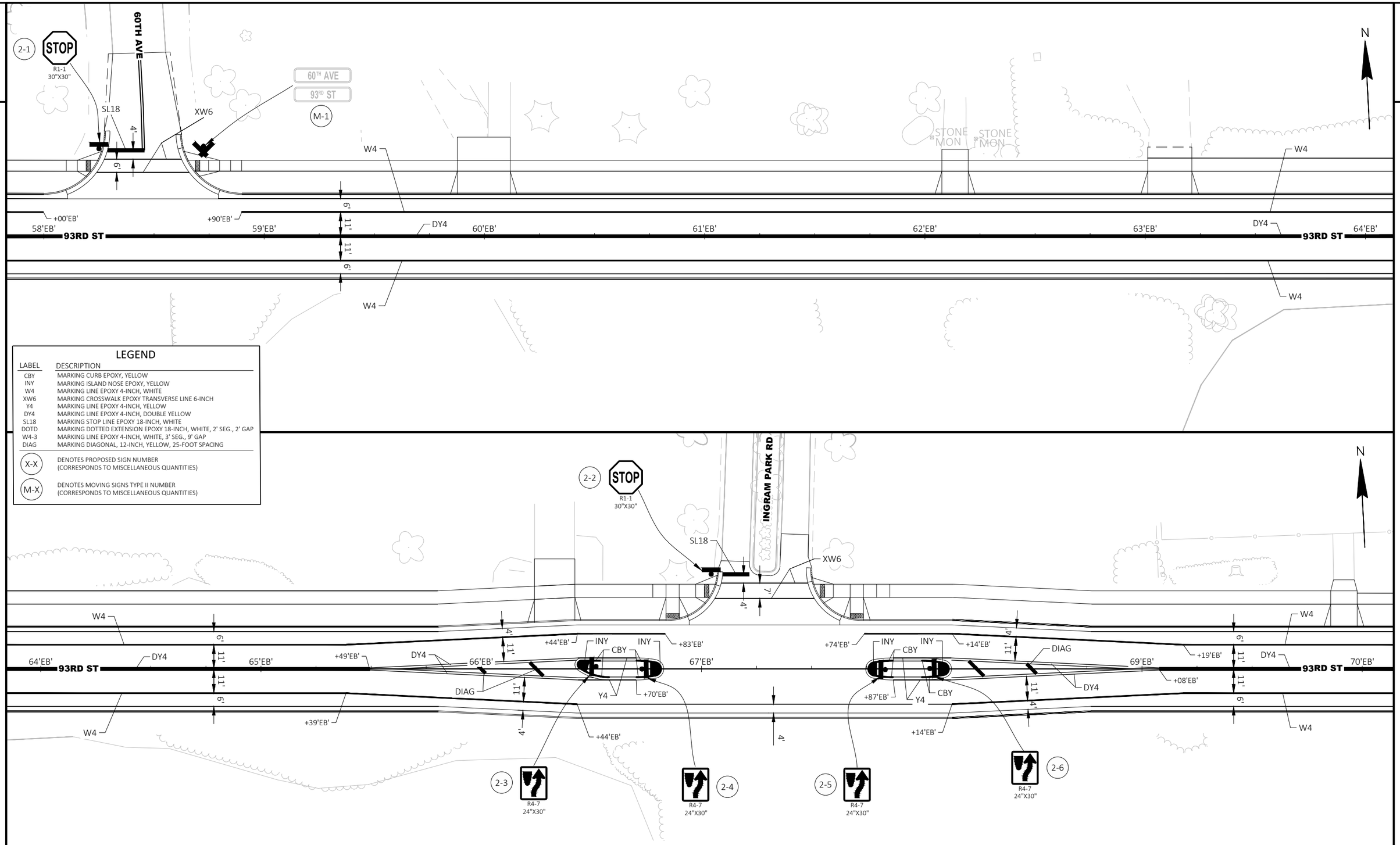
FLAG

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PERMANENT SIGNING & PAVEMENT MARKING	SHEET 89	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\023201_PS-PM.DWG
LAYOUT NAME - 01

PLOT DATE : 7/17/2026 2:54 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

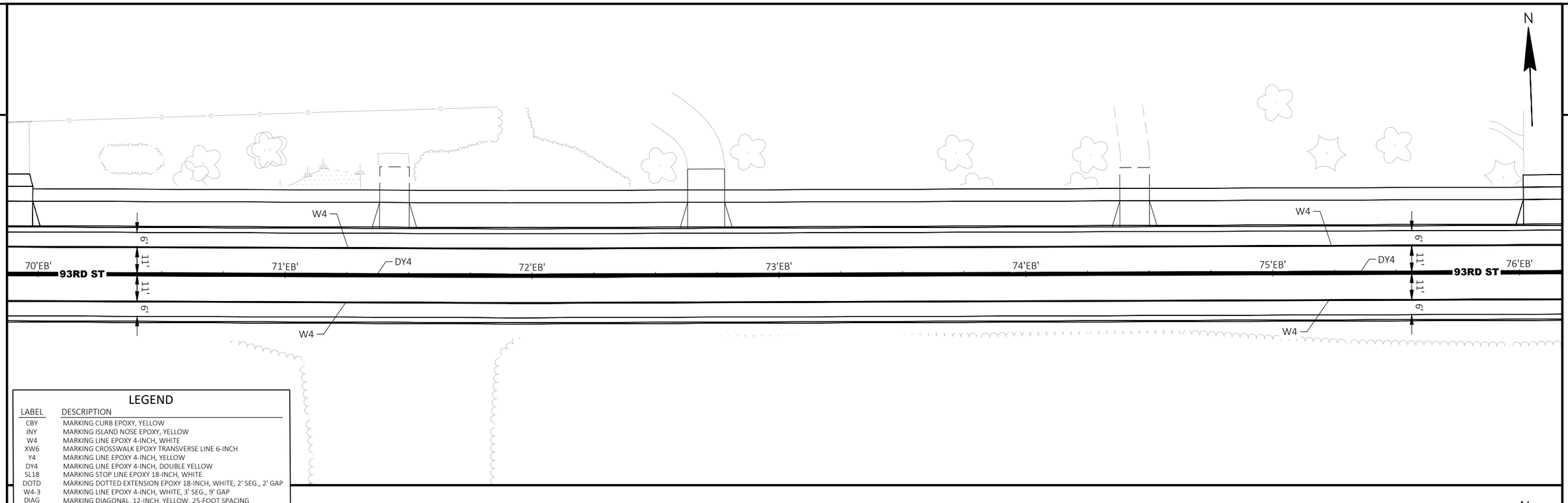
WISDOT/CADDS SHEET 44



LEGEND

LABEL	DESCRIPTION
CBY	MARKING CURB EPOXY, YELLOW
INY	MARKING ISLAND NOSE EPOXY, YELLOW
W4	MARKING LINE EPOXY 4-INCH, WHITE
XW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
Y4	MARKING LINE EPOXY 4-INCH, YELLOW
DY4	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
SL18	MARKING STOP LINE EPOXY 18-INCH, WHITE
DOTD	MARKING DOTTED EXTENSION EPOXY 18-INCH, WHITE, 2' SEG., 2' GAP
W4-3	MARKING LINE EPOXY 4-INCH, WHITE, 3' SEG., 9' GAP
DIAG	MARKING DIAGONAL, 12-INCH, YELLOW, 25-FOOT SPACING
X-X	DENOTES PROPOSED SIGN NUMBER (CORRESPONDS TO MISCELLANEOUS QUANTITIES)
M-X	DENOTES MOVING SIGNS TYPE II NUMBER (CORRESPONDS TO MISCELLANEOUS QUANTITIES)

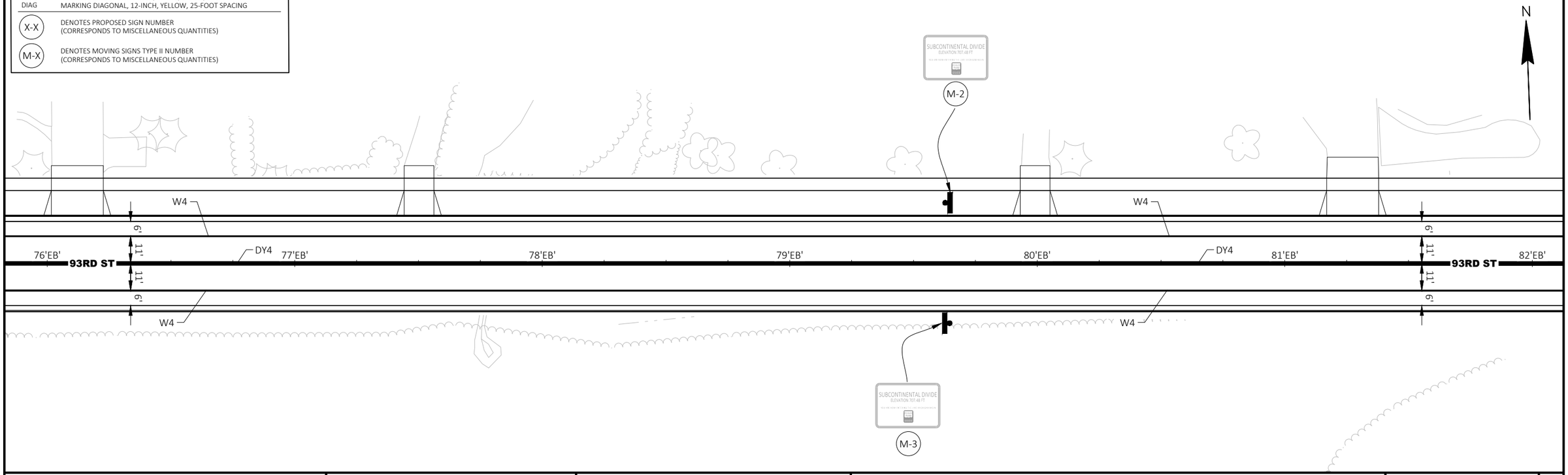
2



2

LEGEND

LABEL	DESCRIPTION
CBY	MARKING CURB EPOXY, YELLOW
INY	MARKING ISLAND NOSE EPOXY, YELLOW
W4	MARKING LINE EPOXY 4-INCH, WHITE
XW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
Y4	MARKING LINE EPOXY 4-INCH, YELLOW
DY4	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
SL18	MARKING STOP LINE EPOXY 18-INCH, WHITE
DOTD	MARKING DOTTED EXTENSION EPOXY 18-INCH, WHITE, 2' SEG., 2' GAP
W4-3	MARKING LINE EPOXY 4-INCH, WHITE, 3' SEG., 9' GAP
DIAG	MARKING DIAGONAL, 12-INCH, YELLOW, 25-FOOT SPACING
X-X	DENOTES PROPOSED SIGN NUMBER (CORRESPONDS TO MISCELLANEOUS QUANTITIES)
M-X	DENOTES MOVING SIGNS TYPE II NUMBER (CORRESPONDS TO MISCELLANEOUS QUANTITIES)



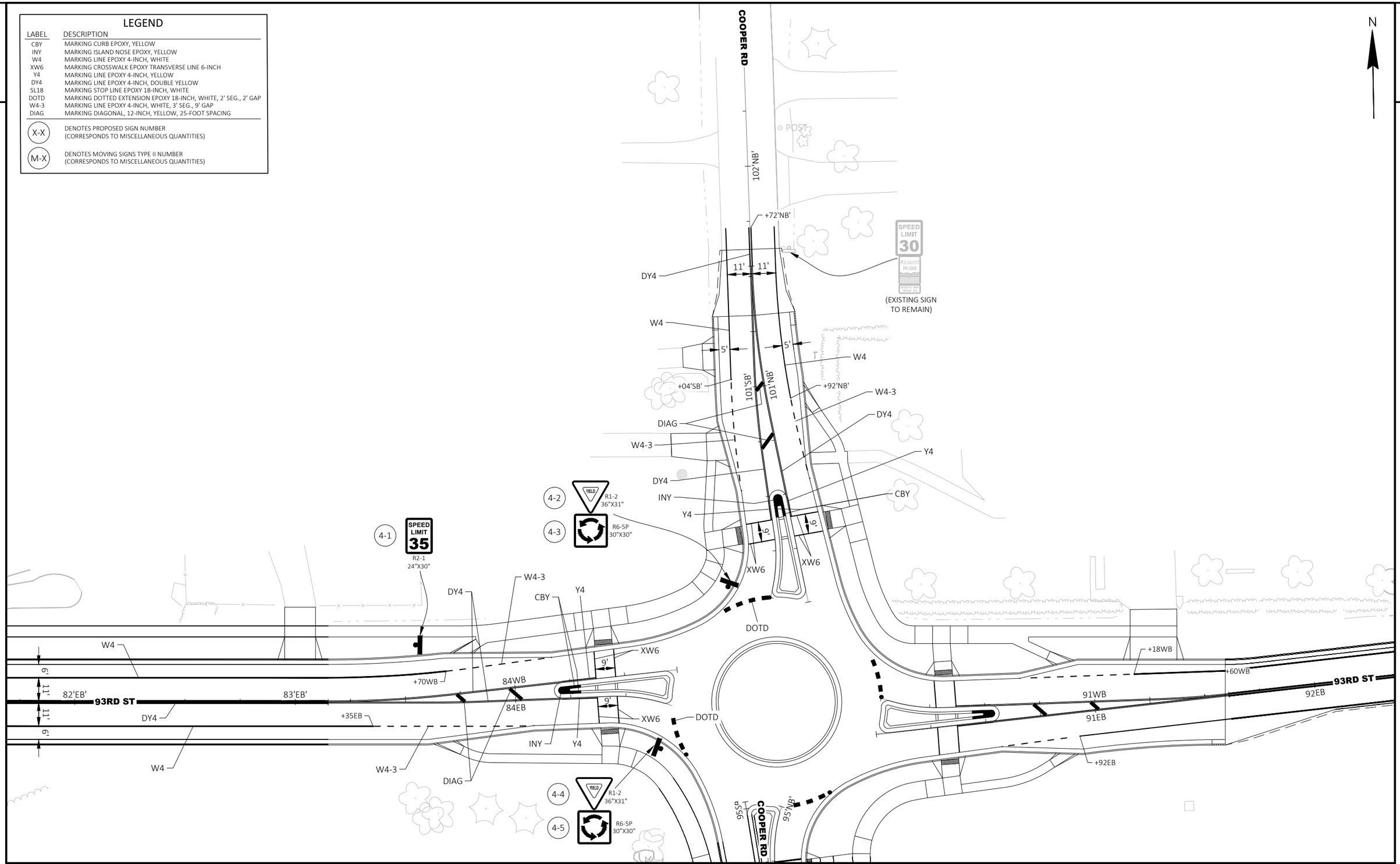
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PERMANENT SIGNING & PAVEMENT MARKING	SHEET 91	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\023201_PS-PM.DWG
LAYOUT NAME - 03

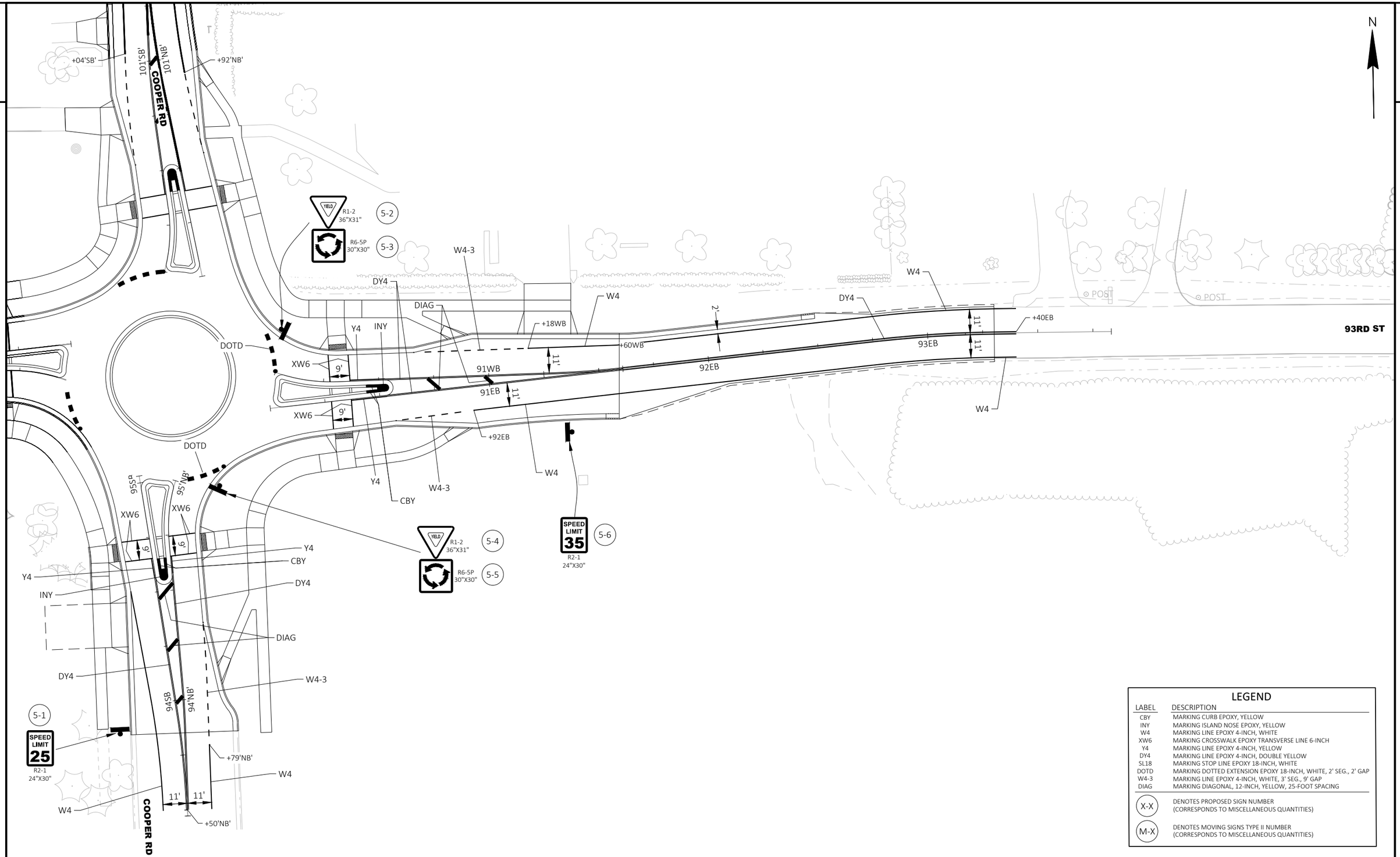
PLOT DATE : 7/17/2026 2:54 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

LABEL	DESCRIPTION
CBY	MARKING CURB EPOXY, YELLOW
INY	MARKING ISLAND NOSE EPOXY, YELLOW
W4	MARKING LINE EPOXY 4-INCH, WHITE
XW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
Y4	MARKING LINE EPOXY 4-INCH, YELLOW
DY4	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
SL18	MARKING STOP LINE EPOXY 18-INCH, WHITE
DOTD	MARKING DOTTED EXTENSION EPOXY 18-INCH, WHITE, 2' SEG., 2' GAP
W4-3	MARKING LINE EPOXY 4-INCH, WHITE, 3' SEG., 9' GAP
DIAG	MARKING DIAGONAL, 12-INCH, YELLOW, 25-FOOT SPACING
X-X	DENOTES PROPOSED SIGN NUMBER (CORRESPONDS TO MISCELLANEOUS QUANTITIES)
M-X	DENOTES MOVING SIGNS TYPE II NUMBER (CORRESPONDS TO MISCELLANEOUS QUANTITIES)



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PERMANENT SIGNING & PAVEMENT MARKING	SHEET 92	E



LEGEND

LABEL	DESCRIPTION
CBY	MARKING CURB EPOXY, YELLOW
INY	MARKING ISLAND NOSE EPOXY, YELLOW
W4	MARKING LINE EPOXY 4-INCH, WHITE
XW6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
Y4	MARKING LINE EPOXY 4-INCH, YELLOW
DY4	MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
SL18	MARKING STOP LINE EPOXY 18-INCH, WHITE
DOTD	MARKING DOTTED EXTENSION EPOXY 18-INCH, WHITE, 2' SEG., 2' GAP
W4-3	MARKING LINE EPOXY 4-INCH, WHITE, 3' SEG., 9' GAP
DIAG	MARKING DIAGONAL, 12-INCH, YELLOW, 25-FOOT SPACING
X-X	DENOTES PROPOSED SIGN NUMBER (CORRESPONDS TO MISCELLANEOUS QUANTITIES)
M-X	DENOTES MOVING SIGNS TYPE II NUMBER (CORRESPONDS TO MISCELLANEOUS QUANTITIES)

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PERMANENT SIGNING & PAVEMENT MARKING	SHEET 93	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\023201_PS-PM.DWG
LAYOUT NAME - 05

PLOT DATE : 7/17/2026 2:54 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND:

GENERAL WORK AREA

TRAFFIC CONTROL BARRICADE TYPE III / TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TYPE "A" LIGHTS

TRAFFIC CONTROL SIGN

NOTES

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 AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

MOUNT ALL PORTABLE TRAFFIC CONTROL SIGNS AT A MINIMUM HEIGHT OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGN, ABOVE THE EDGE OF PAVEMENT.

N

85TH ST
85TH PL
56TH AVE
54TH AVE
86TH ST
85TH PL
48TH AVE
43RD AVE
39TH AVE
EZ
86TH ST
86TH PL
VAN BUREN RD
50TH AVE
46TH AVE
45TH AVE
87TH ST
87TH PL
37TH AVE
36TH AVE
43RD AVE
88TH PL
88TH ST
88TH ST
51ST AVE/COOPER RD
42ND AVE
89TH ST
89TH ST
41ST AVE
89TH PL
R11-3
60"X30"
ROAD CLOSED
TO THRU TRAFFIC
3/4 MILE AHEAD
TYPE III BARRICADE
31
GREEN BAY ROAD
OLD GREEN BAY ROAD
91ST ST
CREEKSIDE CIR
M4-9L
30"X24"
DETOUR
TYPE III BARRICADE
ROAD
WORK
AHEAD
W20-1A
ROAD
WORK
AHEAD
W20-1A
60TH AVE
INGRAM PARK RD
R11-2
48" X 30"
ROAD
CLOSED
TYPE III BARRICADE
47TH AVE
42ND CT
91ST PL
PRAIRIE VILLAGE DR
ROAD
CLOSED
1000 FT
W20-3C
ROAD
CLOSED
AHEAD
W20-3A
66TH AVE
93RD ST
63RD AVE
93RD ST
500'
48TH AVE
42ND AVE
93RD ST
1500'
ROAD
CLOSED
AHEAD
W20-3A
ROAD
CLOSED
1000 FT
W20-3C
ROAD
CLOSED
500 FT
W20-3D
DABBS FARM RD
R11-2
48" X 30"
ROAD
CLOSED
TYPE III BARRICADE
ROAD
CLOSED
500 FT
W20-3D
93RD PL
48TH AVE
39TH AVE
41ST AVE
M4-9R
30"X24"
DETOUR
TYPE III BARRICADE
1000'
95TH ST
95TH ST
R11-3
60"X30"
ROAD CLOSED
TO THRU TRAFFIC
1/2 MILE AHEAD
TYPE III BARRICADE
31
49TH CT
43RD AVE
42ND CT
42ND AVE
EZ

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	TRAFFIC CONTROL - ADVANCED WARNING SIGNS - STAGE 1	SHEET 94 E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\025001-TC.DWG
LAYOUT NAME - - STAGE 1

PLOT DATE : 7/17/2026 3:40 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:750 FT

WISDOT/CADDS SHEET 42

LEGEND:

GENERAL WORK AREA

TRAFFIC CONTROL BARRICADE TYPE III / TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TYPE "A" LIGHTS

TRAFFIC CONTROL SIGN

NOTES

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 AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

MOUNT ALL PORTABLE TRAFFIC CONTROL SIGNS AT A MINIMUM HEIGHT OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGN, ABOVE THE EDGE OF PAVEMENT.

2

2

N

85TH ST

85TH PL

86TH ST

87TH PL

87TH ST

88TH ST

88TH PL

89TH ST

89TH PL

91ST ST

91ST PL

93RD ST

95TH ST

56TH AVE

54TH AVE

51ST AVE/COOPER RD

50TH AVE

48TH AVE

46TH AVE

45TH AVE

43RD AVE

42ND AVE

41ST AVE

39TH AVE

37TH AVE

36TH AVE

60TH AVE

66TH AVE

63RD AVE

49TH CT

42ND CT

42ND AVE

CREEKSIDE CIR

INGRAM PARK RD

DABBS FARM RD

PRAIRIE VILLAGE DR

VAN BUREN RD

GREEN BAY ROAD

OLD GREEN BAY ROAD

31

EZ

R11-3 60"X30" ROAD CLOSED TO THRU TRAFFIC 1 MILE AHEAD — TYPE III BARRICADE

R11-3 60"X30" ROAD CLOSED TO THRU TRAFFIC 3/4 MILE AHEAD — TYPE III BARRICADE

R11-3 60"X30" ROAD CLOSED TO THRU TRAFFIC 1/2 MILE AHEAD — TYPE III BARRICADE

R11-2 48" X 30" ROAD CLOSED — TYPE III BARRICADE

ROAD CLOSED AHEAD W20-3A

ROAD CLOSED 500 FT W20-3D

ROAD CLOSED 1000 FT W20-3C

ROAD WORK AHEAD W20-1A

M4-9L 30"X24" DETOUR — TYPE III BARRICADE

M4-9R 30"X24" DETOUR — TYPE III BARRICADE

500'

1000'

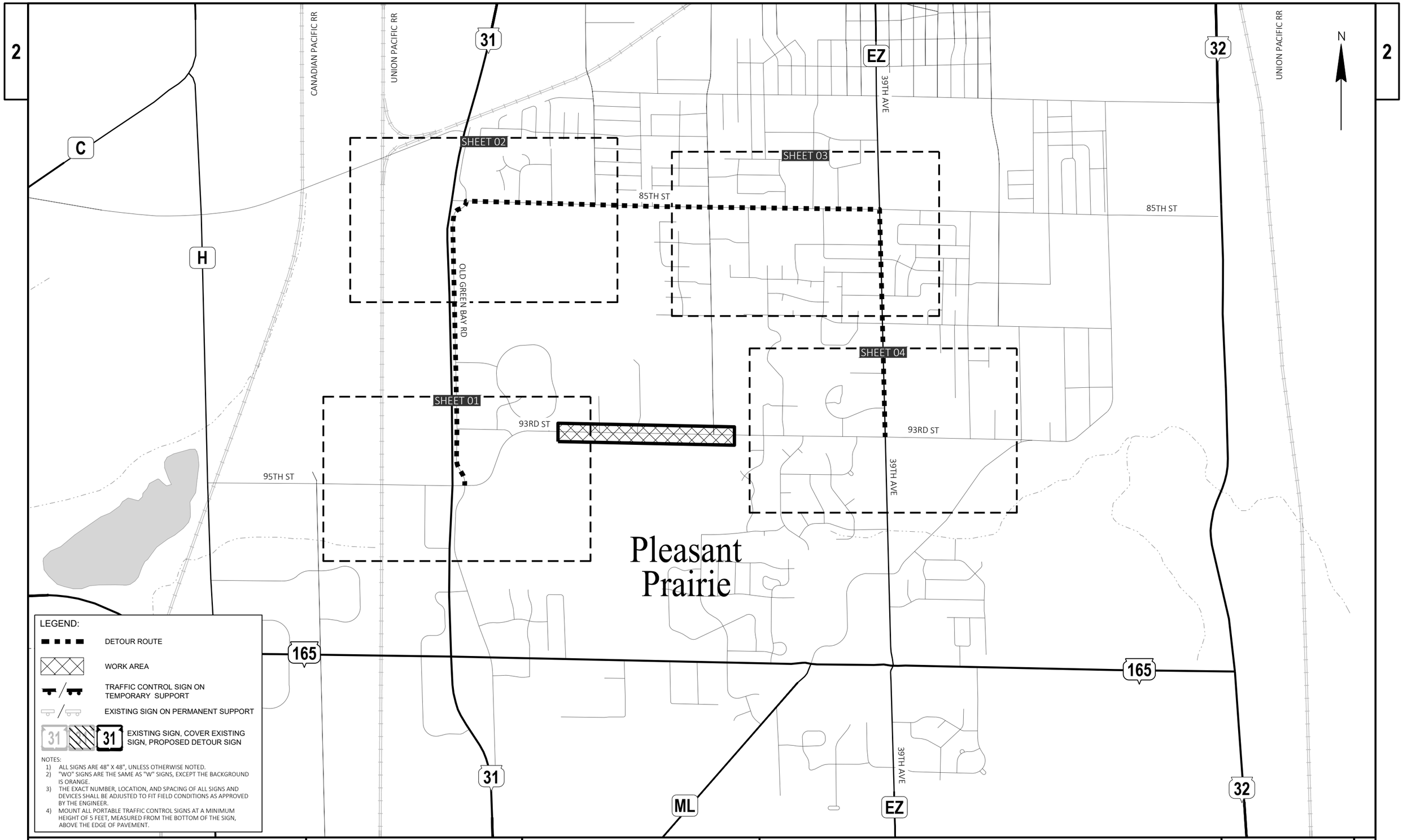
1500'

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	TRAFFIC CONTROL - ADVANCED WARNING SIGNS - STAGE 2	SHEET 95 E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\025001-TC.DWG
LAYOUT NAME - - STAGE 2

PLOT DATE : 7/17/2026 3:40 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:750 FT

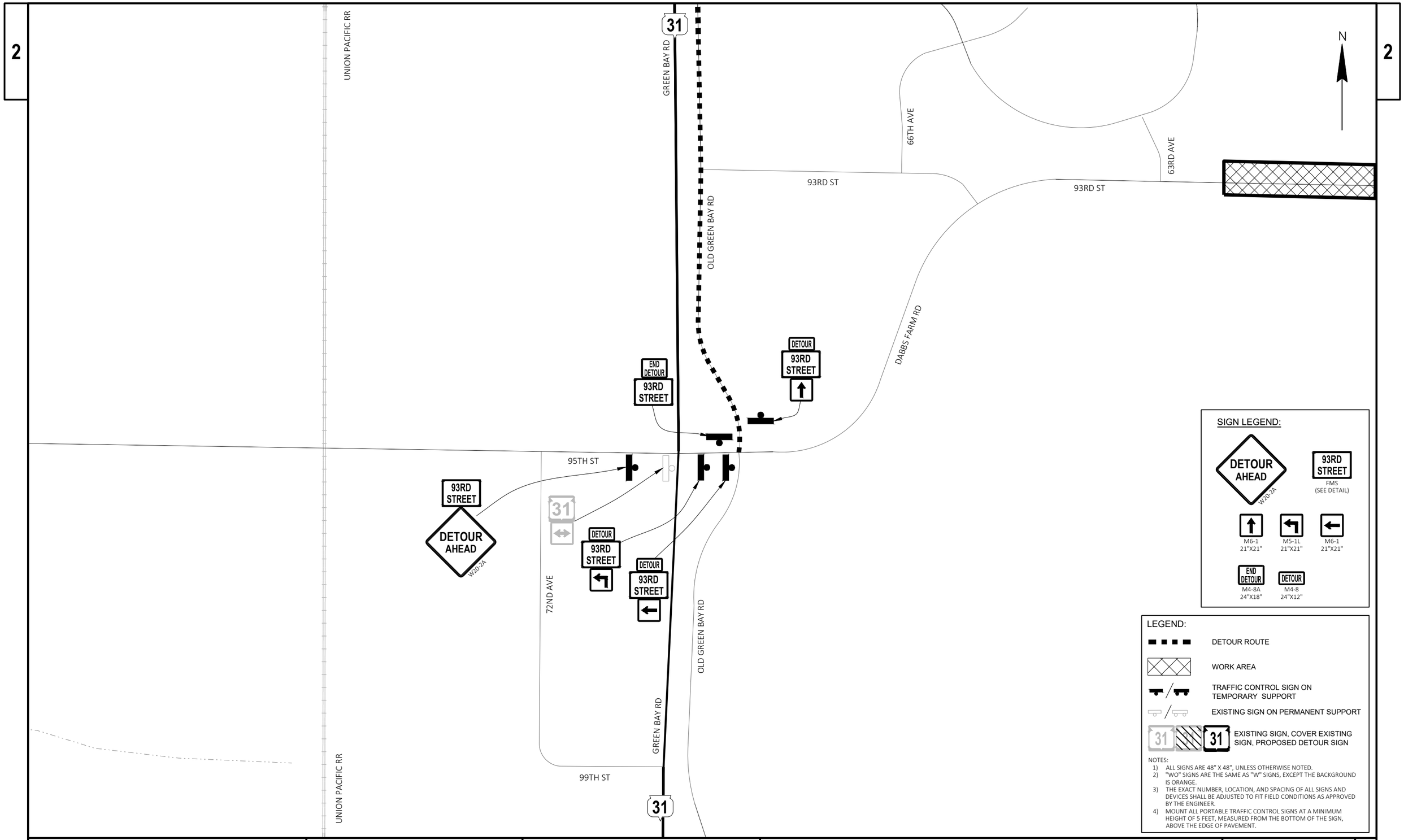
WISDOT/CADDS SHEET 42



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	DETOUR ROUTE	SHEET 96 E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\027001-DT.DWG
LAYOUT NAME - OVERVIEW

PLOT DATE : 7/17/2026 3:49 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:2000 FT

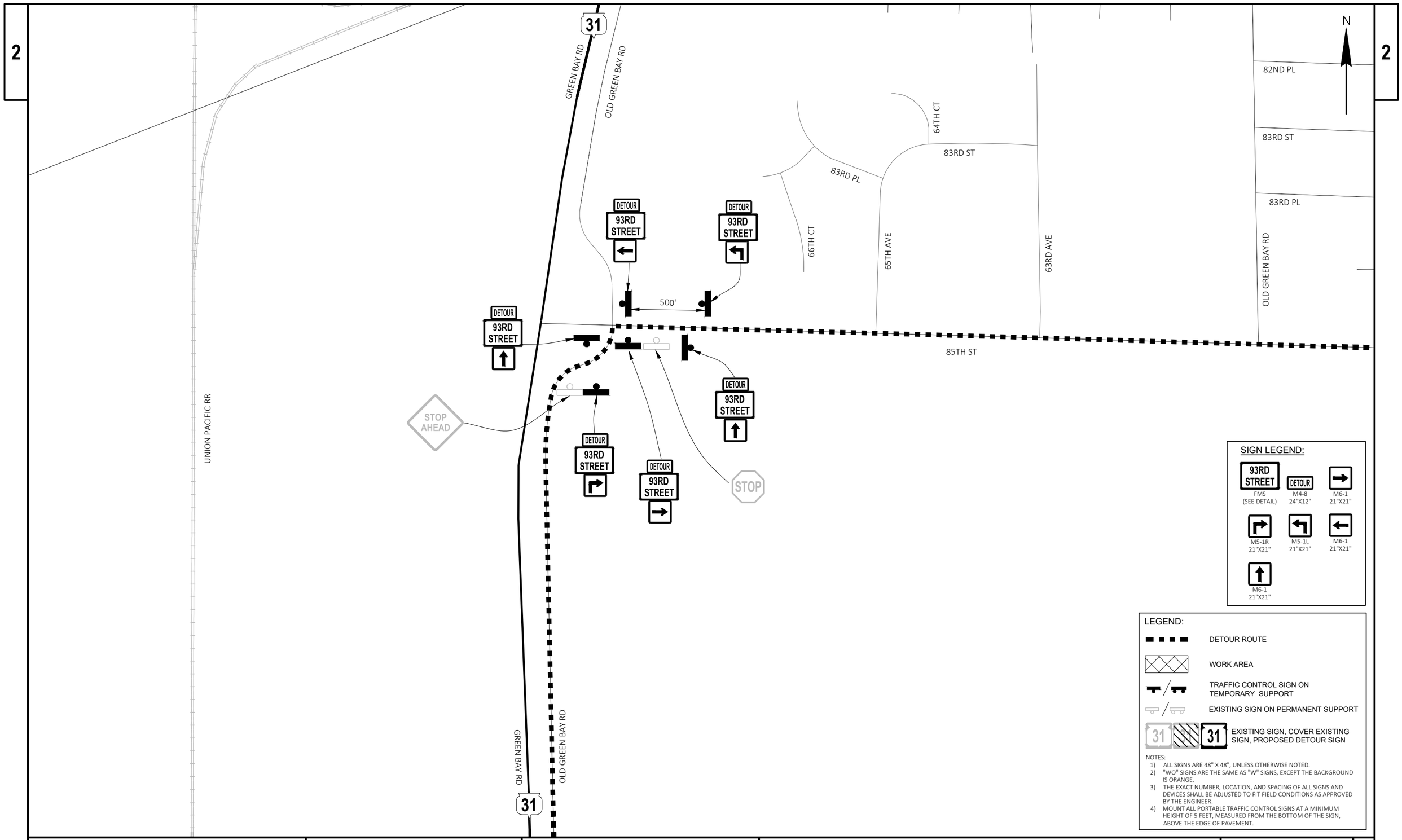


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	DETOUR ROUTE	SHEET 97	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\027001-DT.DWG
LAYOUT NAME - 01

PLOT DATE : 7/17/2026 3:49 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:400 FT

WISDOT/CADDS SHEET 42

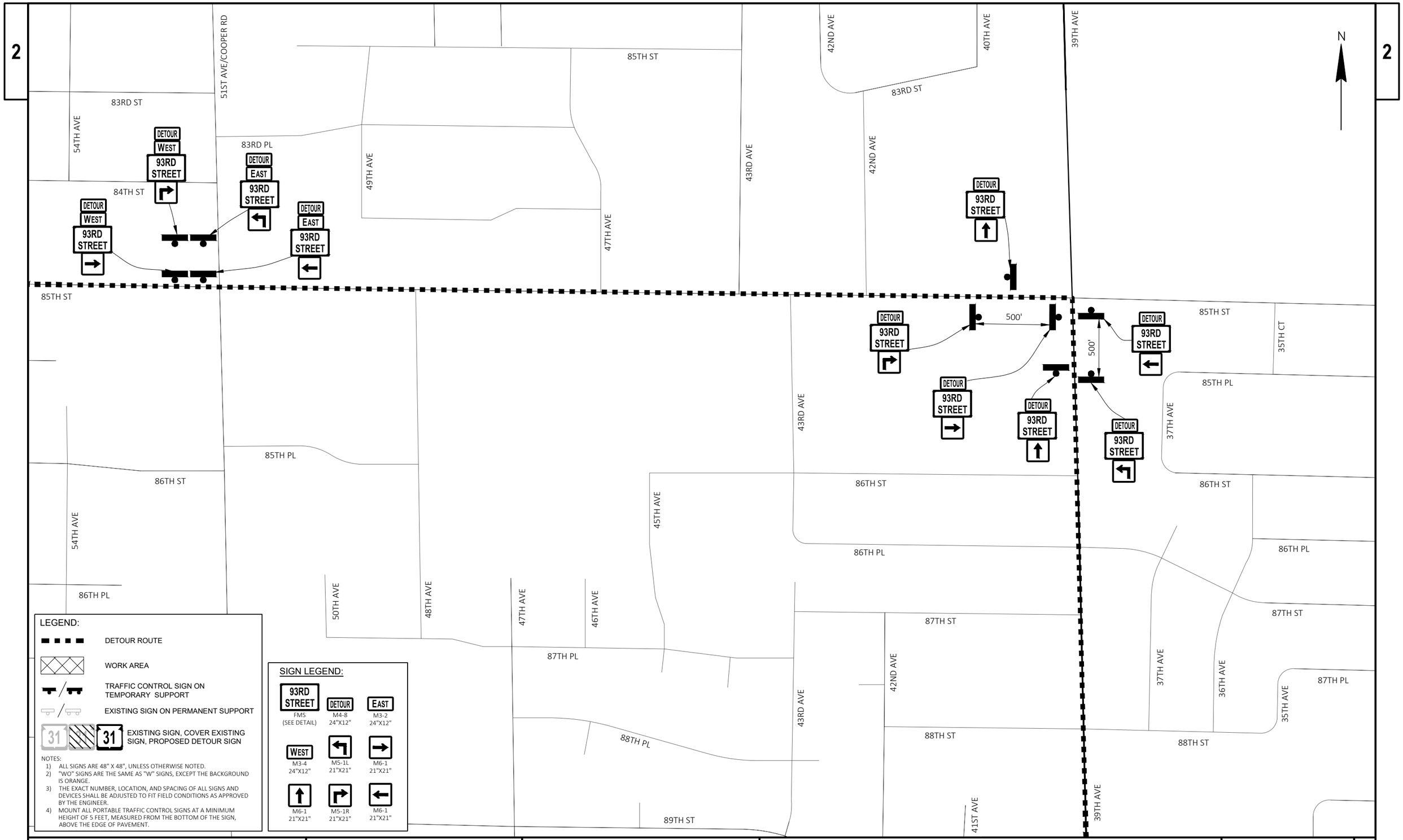


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	DETOUR ROUTE	SHEET 98	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\027001-DT.DWG
LAYOUT NAME - 02

PLOT DATE : 7/17/2026 3:49 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:400 FT

WISDOT/CADDS SHEET 42

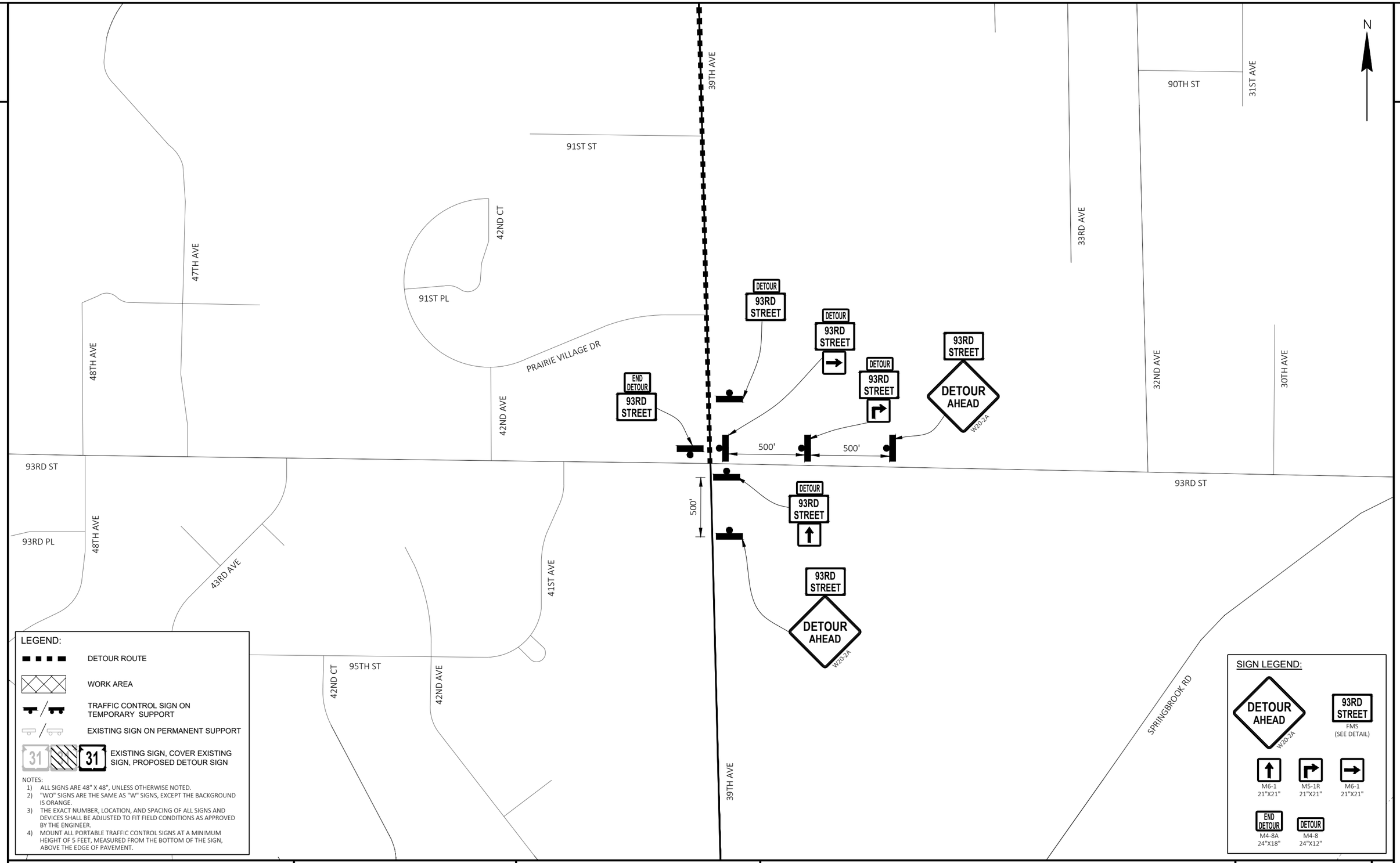


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	DETOUR ROUTE	SHEET 99	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\027001-DT.DWG
LAYOUT NAME - 03

PLOT DATE : 7/17/2026 3:49 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:400 FT

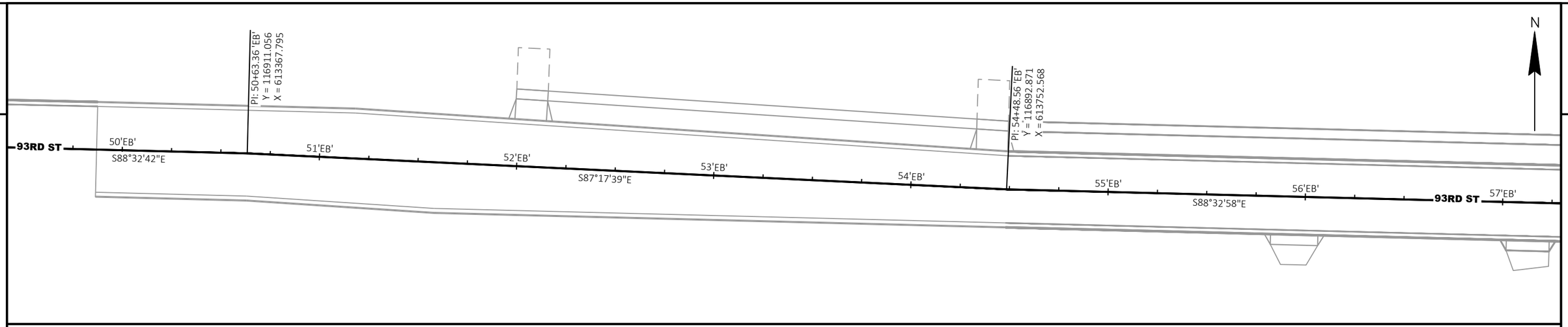
WISDOT/CADDS SHEET 42

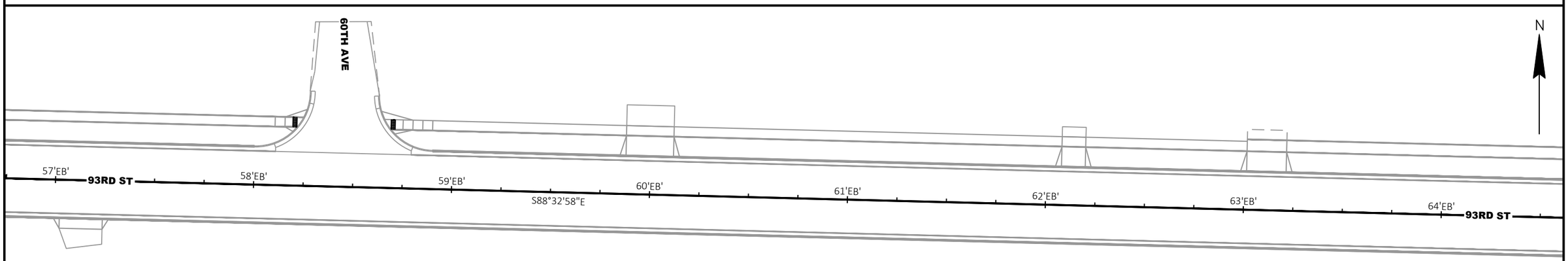


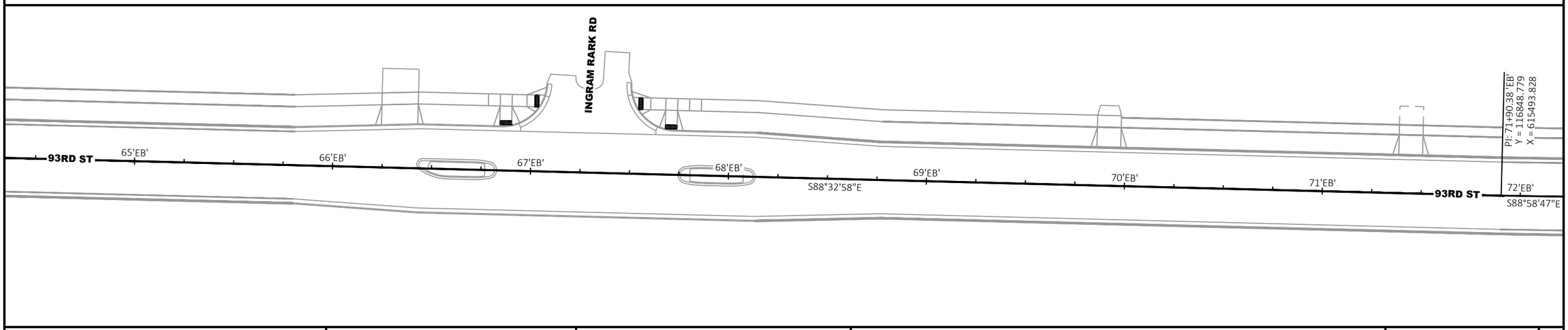
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	DETOUR ROUTE	SHEET 100 E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\027001-DT.DWG
LAYOUT NAME - 04

PLOT DATE : 7/17/2026 3:49 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:400 FT







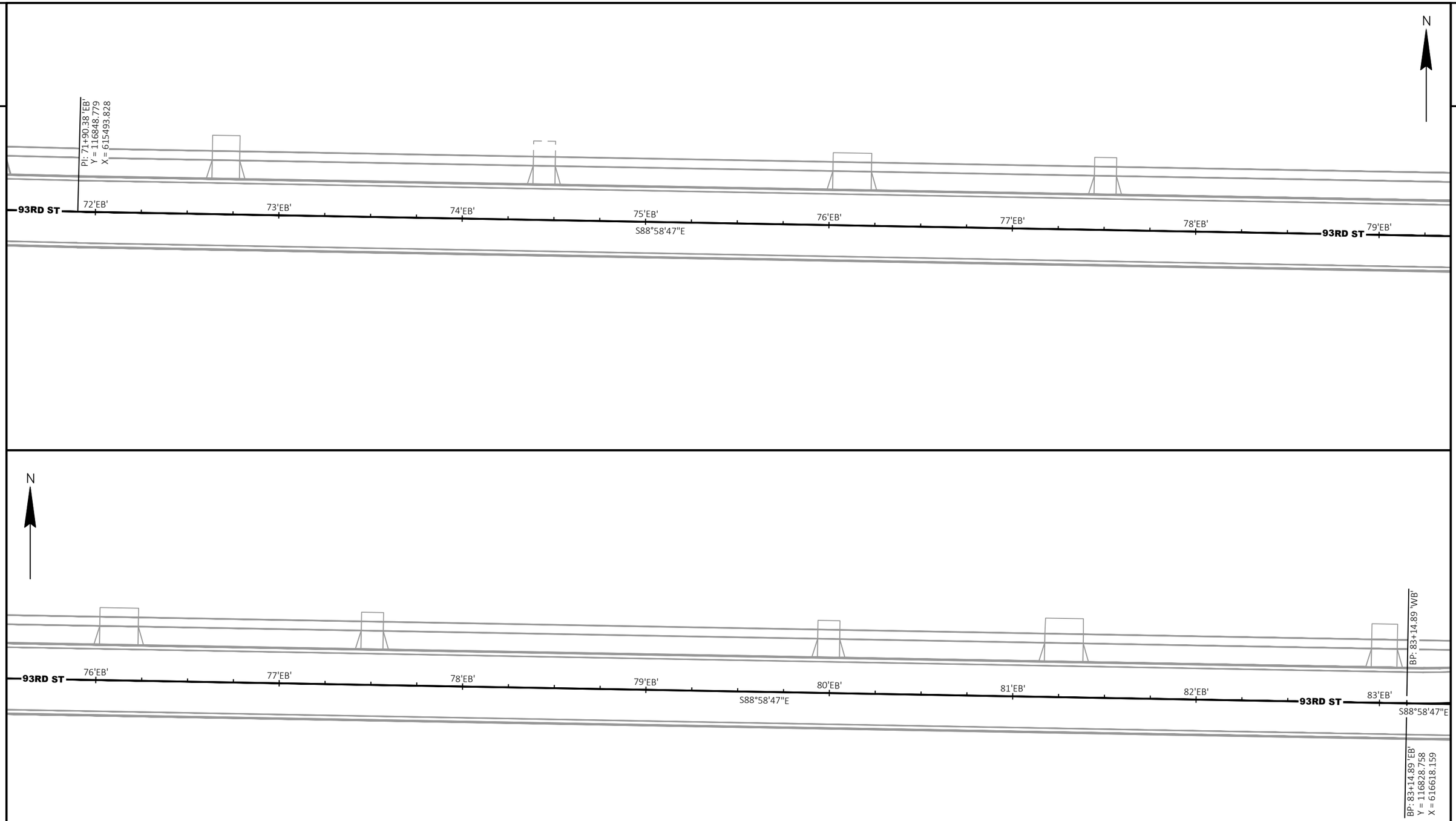
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	ALIGNMENT DIAGRAM	SHEET 101	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\027201-AD.DWG
LAYOUT NAME - 01

PLOT DATE : 7/21/2026 10:02 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	ALIGNMENT DIAGRAM	SHEET 102	E

2

2

N

COOPER RD

PI STA = 83+42.84 'WB'
Y = 116828.260
X = 616646.104
DELTA = 6°23'56" LT
D = 11°27'33"
T = 27.95'
L = 55.84'
R = 500.00'
PC STA = 83+14.89 'WB'
Y = 116828.758
X = 616618.159
PT STA = 83+70.73 'WB'
Y = 116830.880
X = 616673.930
DB = S88°58'47"E
DA = N84°37'16"E

PI STA = 90+16.95 'WB'
Y = 116820.983
X = 616882.518
DELTA = 21°37'32" LT
D = 76°23'40"
T = 14.32'
L = 28.31'
R = 75.00'
PC STA = 90+02.63 'WB'
Y = 116826.013
X = 616869.106
PT STA = 90+30.94 'WB'
Y = 116821.249
X = 616896.840
DB = S69°26'27"E
DA = N88°56'02"E

PI STA = 91+45.88 'WB'
Y = 116823.388
X = 617011.758
DELTA = 4°18'45" LT
D = 14°19'26"
T = 15.06'
L = 30.11'
R = 400.00'
PC STA = 91+30.82 'WB'
Y = 116823.108
X = 616996.700
PT STA = 91+60.92 'WB'
Y = 116824.800
X = 617026.753
DB = N88°56'02"E
DA = N84°37'16"E

BP: 83+14.89 'WB'
PT: 83+70.73 'WB'
EP: 84+73.94 'WB'
Y = 116840.555
X = 616776.687
BP: 90+02.63 'WB'
Y = 116826.013
X = 616869.106
PT: 90+30.94 'WB'
PC: 91+30.82 'WB'
EP: 91+60.92 'WB'
Y = 116824.800
X = 617026.753
PC: 92+76.24 'EB'
PT: 93+30.27 'EB'
Y = 116837.589
X = 617222.371

82'EB'
83'EB'
84'WB'
N84°37'16"E
93RD ST
S88°58'47"E
84'EB'
N88°56'02"E
91'WB'
N88°56'02"E
91'EB'
N84°37'16"E
92'EB'
93RD ST
93'EB'
S89°45'01"E

BP: 83+14.89 'EB'
Y = 116828.758
X = 616618.159
PC: 83+65.91 'EB'
PT: 83+80.48 'EB'
PC: 84+43.14 'EB'
EP: 84+71.45 'EB'
Y = 116824.257
X = 616774.122
BP: 90+00.00 'EB'
Y = 116809.715
X = 616866.542

PI STA = 83+73.20 'EB'
Y = 116827.719
X = 616676.457
DELTA = 2°05'11" LT
D = 14°19'26"
T = 7.28'
L = 14.57'
R = 400.00'
PC STA = 83+65.91 'EB'
Y = 116827.849
X = 616669.175
PT STA = 83+80.48 'EB'
Y = 116827.855
X = 616683.740
DB = S88°58'47"E
DA = N88°56'02"E

PI STA = 84+57.46 'EB'
Y = 116829.288
X = 616760.710
DELTA = 21°37'32" RT
D = 76°23'40"
T = 14.32'
L = 28.31'
R = 75.00'
PC STA = 84+43.14 'EB'
Y = 116829.021
X = 616746.389
PT STA = 84+71.45 'EB'
Y = 116824.257
X = 616774.122
DB = N88°56'02"E
DA = S69°26'27"E

PI STA = 93+03.28 'EB'
Y = 116838.144
X = 617168.483
DELTA = 5°37'43" RT
D = 10°25'03"
T = 27.04'
L = 54.03'
R = 550.00'
PC STA = 92+76.24 'EB'
Y = 116835.610
X = 617141.566
PT STA = 93+30.27 'EB'
Y = 116838.026
X = 617195.520
DB = N84°37'16"E
DA = S89°45'01"E

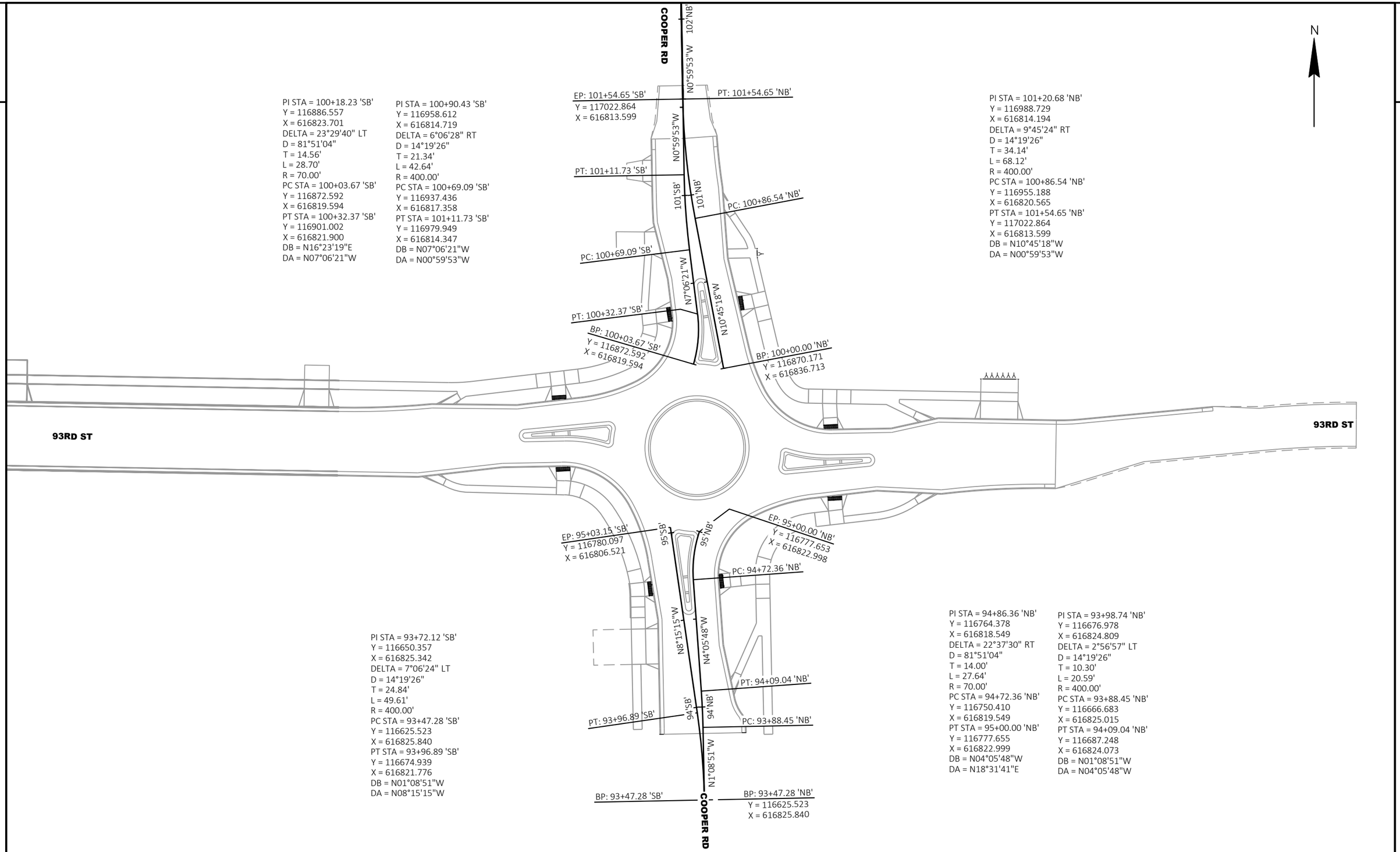
COOPER RD

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	ALIGNMENT DIAGRAM	SHEET 103	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\027201-AD.DWG
LAYOUT NAME - 03
PLOT DATE : 7/21/2026 10:02 AM
PLOT BY : KUSCHEL, LEVI
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

2

2



PI STA = 100+18.23 'SB'
Y = 116886.557
X = 616823.701
DELTA = 23°29'40" LT
D = 81°51'04"
T = 14.56'
L = 28.70'
R = 70.00'
PC STA = 100+03.67 'SB'
Y = 116872.592
X = 616819.594
PT STA = 100+32.37 'SB'
Y = 116901.002
X = 616821.900
DB = N16°23'19"E
DA = N07°06'21"W

PI STA = 100+90.43 'SB'
Y = 116958.612
X = 616814.719
DELTA = 6°06'28" RT
D = 14°19'26"
T = 21.34'
L = 42.64'
R = 400.00'
PC STA = 100+69.09 'SB'
Y = 116937.436
X = 616817.358
PT STA = 101+11.73 'SB'
Y = 116979.949
X = 616814.347
DB = N07°06'21"W
DA = N00°59'53"W

PI STA = 101+20.68 'NB'
Y = 116988.729
X = 616814.194
DELTA = 9°45'24" RT
D = 14°19'26"
T = 34.14'
L = 68.12'
R = 400.00'
PC STA = 100+86.54 'NB'
Y = 116955.188
X = 616820.565
PT STA = 101+54.65 'NB'
Y = 117022.864
X = 616813.599
DB = N10°45'18"W
DA = N00°59'53"W

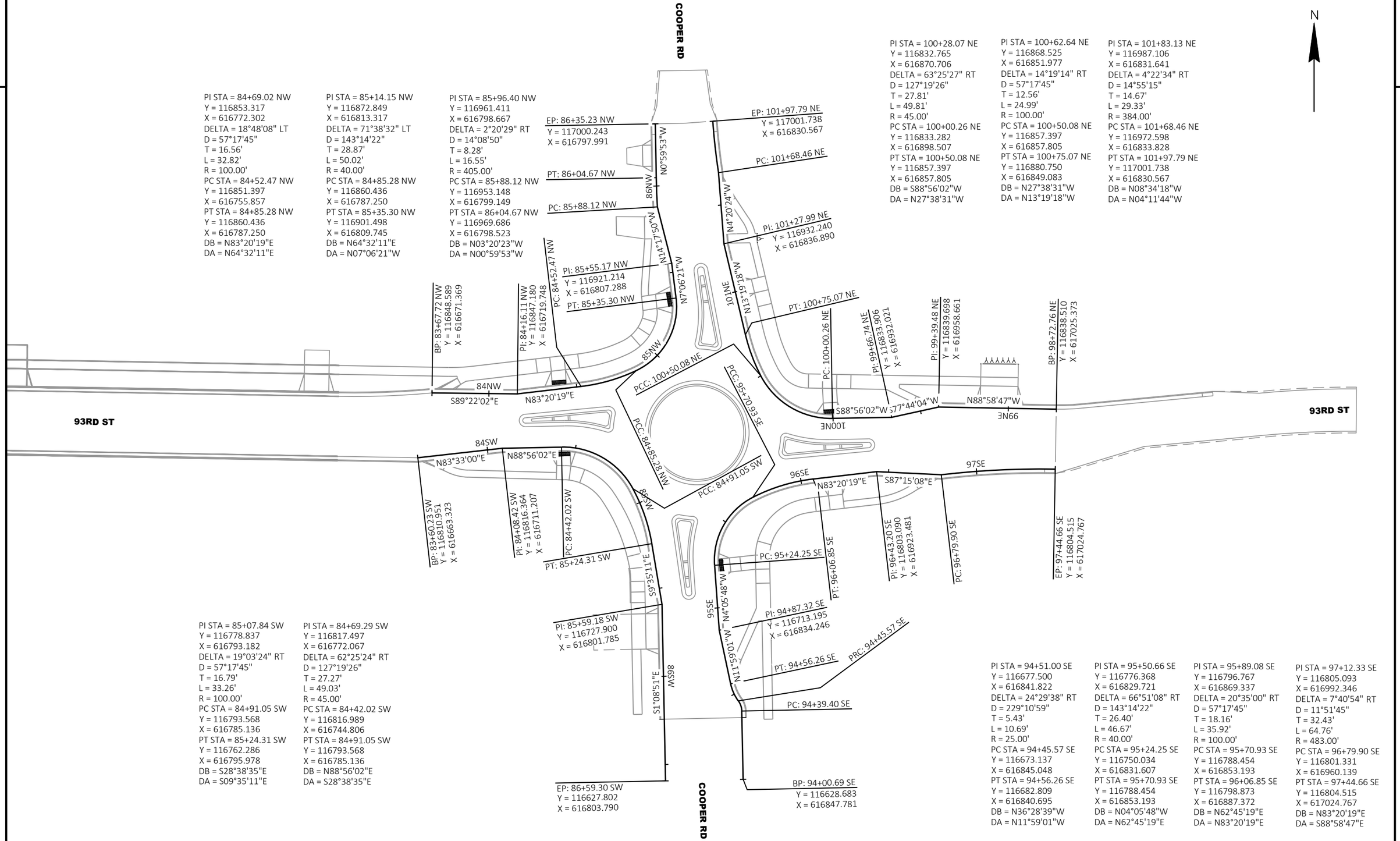
PI STA = 93+72.12 'SB'
Y = 116650.357
X = 616825.342
DELTA = 7°06'24" LT
D = 14°19'26"
T = 24.84'
L = 49.61'
R = 400.00'
PC STA = 93+47.28 'SB'
Y = 116625.523
X = 616825.840
PT STA = 93+96.89 'SB'
Y = 116674.939
X = 616821.776
DB = N01°08'51"W
DA = N08°15'15"W

PI STA = 94+86.36 'NB'
Y = 116764.378
X = 616818.549
DELTA = 22°37'30" RT
D = 81°51'04"
T = 14.00'
L = 27.64'
R = 70.00'
PC STA = 94+72.36 'NB'
Y = 116750.410
X = 616819.549
PT STA = 95+00.00 'NB'
Y = 116777.655
X = 616822.999
DB = N04°05'48"W
DA = N18°31'41"E

PI STA = 93+98.74 'NB'
Y = 116676.978
X = 616824.809
DELTA = 2°56'57" LT
D = 14°19'26"
T = 10.30'
L = 20.59'
R = 400.00'
PC STA = 93+88.45 'NB'
Y = 116666.683
X = 616825.015
PT STA = 94+09.04 'NB'
Y = 116687.248
X = 616824.073
DB = N01°08'51"W
DA = N04°05'48"W

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	ALIGNMENT DIAGRAM	SHEET 104	E

2



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	ALIGNMENT DIAGRAM	SHEET 105	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\027203-AD.DWG
LAYOUT NAME - 05

PLOT DATE : 7/21/2026 10:03 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

PI STA = 10+00.00 'C'
Y = 116795.635
X = 616821.614
DELTA = 360°00'00" LT
D = 194°13'23"
T = 0.00'
L = 185.35'
R = 29.50'
PC STA = 10+00.00 'C'
Y = 116795.635
X = 616821.614
PT STA = 11+85.35 'C'
Y = 116795.635
X = 616821.614
DB = N90°00'00"E
DA = S90°00'00"E

PI STA = 300+95.56 W1
Y = 116871.337
X = 616767.113
DELTA = 18°48'08" LT
D = 70°18'06"
T = 13.49'
L = 26.75'
R = 81.50'
PC STA = 300+82.07 W1
Y = 116869.772
X = 616753.710
PT STA = 301+08.81 W1
Y = 116877.139
X = 616779.296
DB = N83°20'19"E
DA = N64°32'11"E

PI STA = 301+18.22 W1
Y = 116881.184
X = 616787.791
DELTA = 47°16'01" LT
D = 266°29'31"
T = 9.41'
L = 17.74'
R = 21.50'
PC STA = 301+08.81 W1
Y = 116877.139
X = 616779.296
PT STA = 301+26.55 W1
Y = 116890.168
X = 616790.583
DB = N64°32'11"E
DA = N17°16'10"E

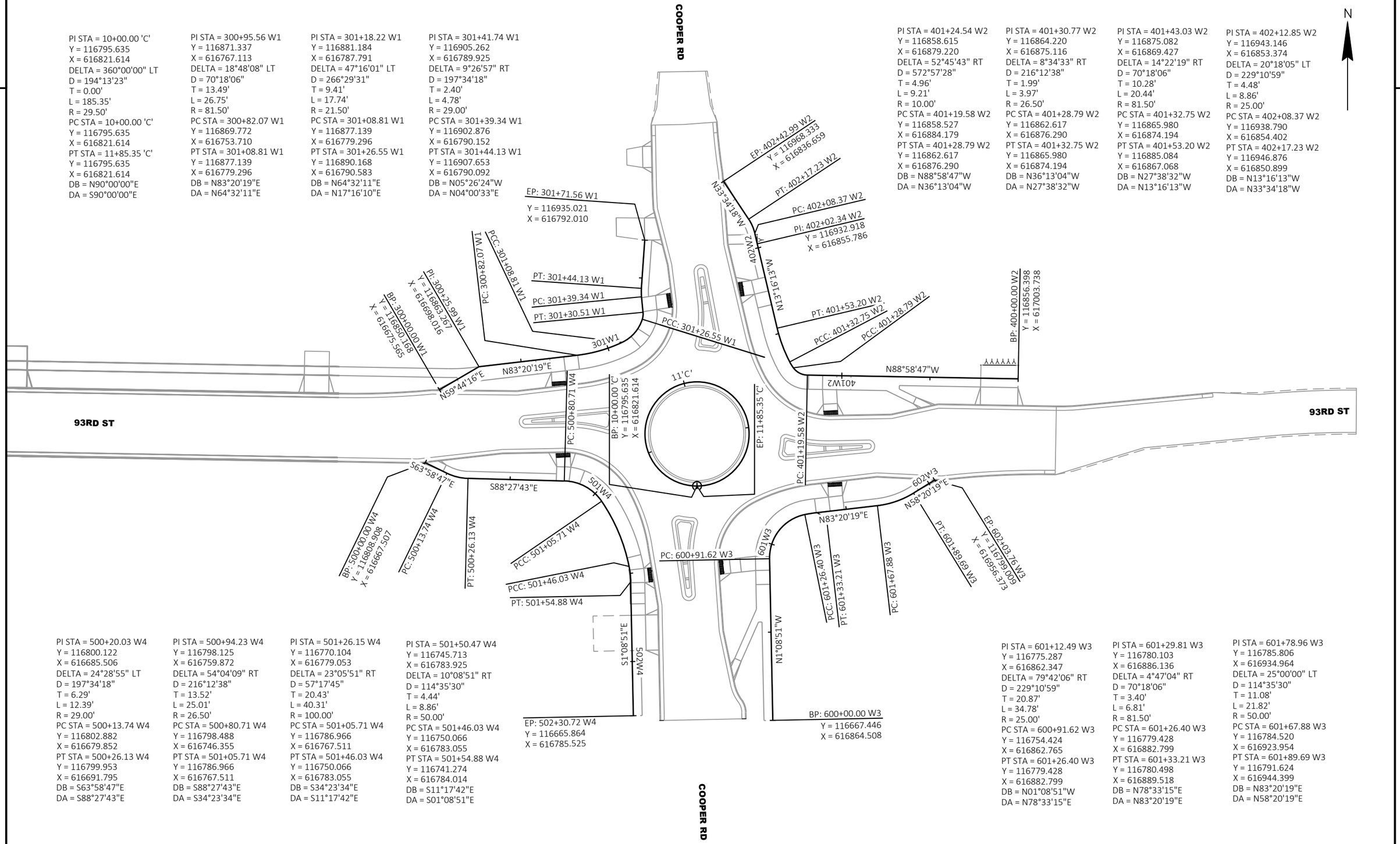
PI STA = 301+41.74 W1
Y = 116905.262
X = 616789.925
DELTA = 9°26'57" RT
D = 197°34'18"
T = 2.40'
L = 4.78'
R = 29.00'
PC STA = 301+39.34 W1
Y = 116902.876
X = 616790.152
PT STA = 301+44.13 W1
Y = 116907.653
X = 616790.092
DB = N05°26'24"W
DA = N04°00'33"E

PI STA = 401+24.54 W2
Y = 116858.615
X = 616879.220
DELTA = 52°45'43" RT
D = 572°57'28"
T = 4.96'
L = 9.21'
R = 10.00'
PC STA = 401+19.58 W2
Y = 116858.527
X = 616884.179
PT STA = 401+28.79 W2
Y = 116862.617
X = 616876.290
DB = N88°58'47"W
DA = N36°13'04"W

PI STA = 401+30.77 W2
Y = 116864.220
X = 616875.116
DELTA = 8°34'33" RT
D = 216°12'38"
T = 1.99'
L = 3.97'
R = 26.50'
PC STA = 401+28.79 W2
Y = 116862.617
X = 616876.290
PT STA = 401+32.75 W2
Y = 116865.980
X = 616874.194
DB = N36°13'04"W
DA = N27°38'32"W

PI STA = 401+43.03 W2
Y = 116875.082
X = 616869.427
DELTA = 14°22'19" RT
D = 70°18'06"
T = 10.28'
L = 20.44'
R = 81.50'
PC STA = 401+32.75 W2
Y = 116865.980
X = 616874.194
PT STA = 401+53.20 W2
Y = 116885.084
X = 616867.068
DB = N27°38'32"W
DA = N13°16'13"W

PI STA = 402+12.85 W2
Y = 116943.146
X = 616853.374
DELTA = 20°18'05" LT
D = 229°10'59"
T = 4.48'
L = 8.86'
R = 25.00'
PC STA = 402+08.37 W2
Y = 116938.790
X = 616854.402
PT STA = 402+17.23 W2
Y = 116946.876
X = 616850.899
DB = N13°16'13"W
DA = N33°34'18"W



PI STA = 500+20.03 W4
Y = 116800.122
X = 616685.506
DELTA = 24°28'55" LT
D = 197°34'18"
T = 6.29'
L = 12.39'
R = 29.00'
PC STA = 500+13.74 W4
Y = 116802.882
X = 616679.852
PT STA = 500+26.13 W4
Y = 116799.953
X = 616691.795
DB = S63°58'47"E
DA = S88°27'43"E

PI STA = 500+94.23 W4
Y = 116798.125
X = 616759.872
DELTA = 54°04'09" RT
D = 216°12'38"
T = 13.52'
L = 25.01'
R = 26.50'
PC STA = 500+80.71 W4
Y = 116798.488
X = 616746.355
PT STA = 501+05.71 W4
Y = 116786.966
X = 616767.511
DB = S88°27'43"E
DA = S34°23'34"E

PI STA = 501+26.15 W4
Y = 116770.104
X = 616779.053
DELTA = 23°05'51" RT
D = 57°17'45"
T = 20.43'
L = 40.31'
R = 100.00'
PC STA = 501+05.71 W4
Y = 116786.966
X = 616767.511
PT STA = 501+46.03 W4
Y = 116750.066
X = 616783.055
DB = S34°23'34"E
DA = S11°17'42"E

PI STA = 501+50.47 W4
Y = 116745.713
X = 616783.925
DELTA = 10°08'51" RT
D = 114°35'30"
T = 4.44'
L = 8.86'
R = 50.00'
PC STA = 501+46.03 W4
Y = 116750.066
X = 616783.055
PT STA = 501+54.88 W4
Y = 116741.274
X = 616784.014
DB = S11°17'42"E
DA = S01°08'51"E

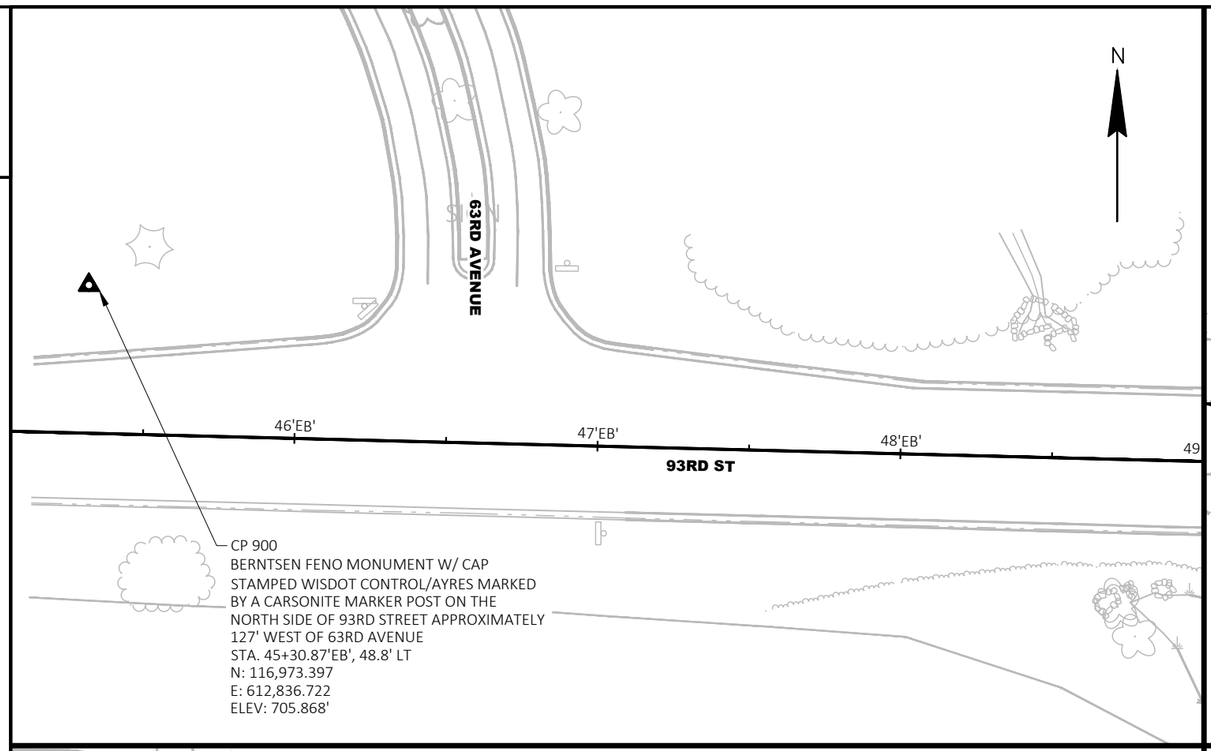
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Y = 116775.287
X = 616862.347
DELTA = 79°42'06" RT
D = 229°10'59"
T = 20.87'
L = 34.78'
R = 25.00'
PC STA = 600+91.62 W3
Y = 116754.424
X = 616862.765
PT STA = 601+26.40 W3
Y = 116779.428
X = 616882.799
DB = N01°08'51"W
DA = N78°33'15"E

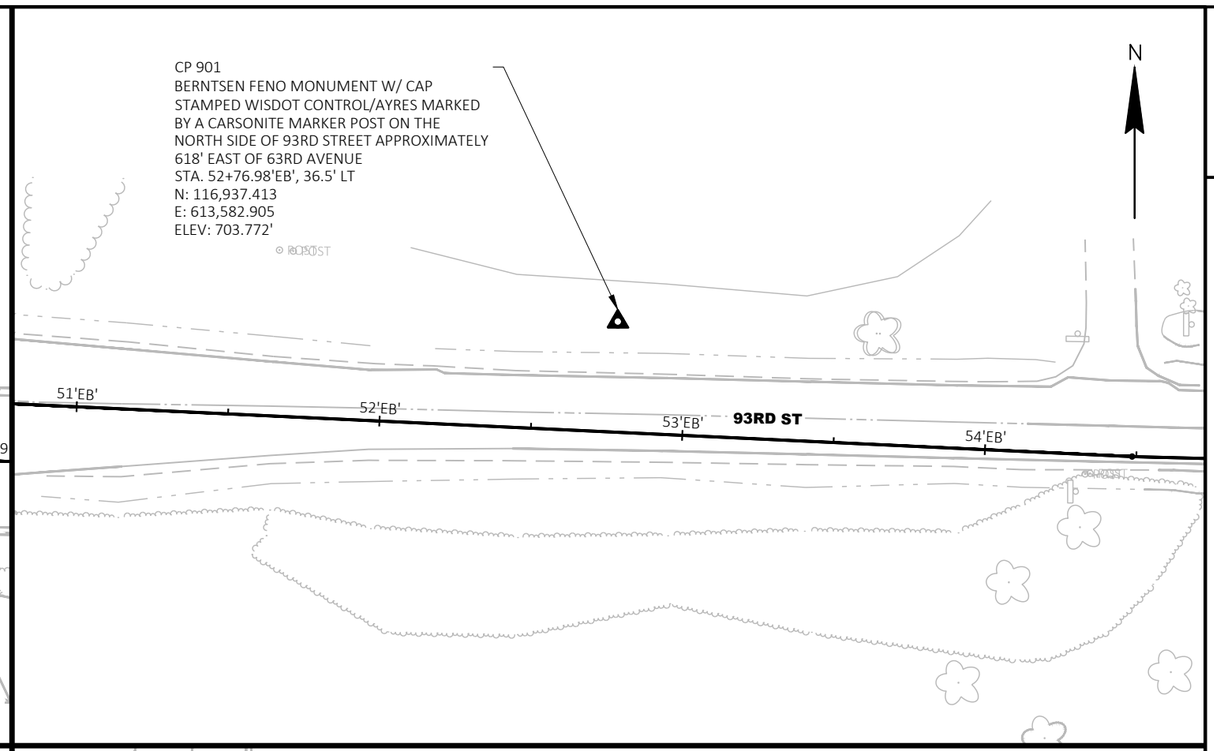
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X = 616886.136
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D = 70°18'06"
T = 3.40'
L = 6.81'
R = 81.50'
PC STA = 601+26.40 W3
Y = 116779.428
X = 616882.799
PT STA = 601+33.21 W3
Y = 116780.498
X = 616889.518
DB = N78°33'15"E
DA = N83°20'19"E

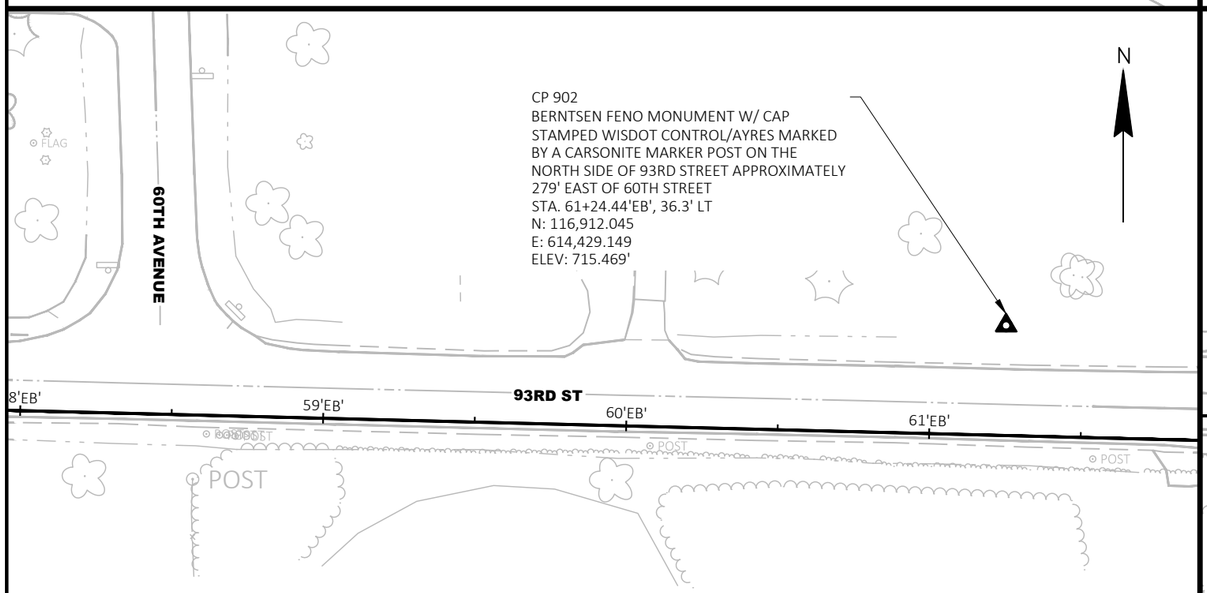
PI STA = 601+78.96 W3
Y = 116785.806
X = 616934.964
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D = 114°35'30"
T = 11.08'
L = 21.82'
R = 50.00'
PC STA = 601+67.88 W3
Y = 116784.520
X = 616923.954
PT STA = 601+89.69 W3
Y = 116791.624
X = 616944.399
DB = N83°20'19"E
DA = N58°20'19"E

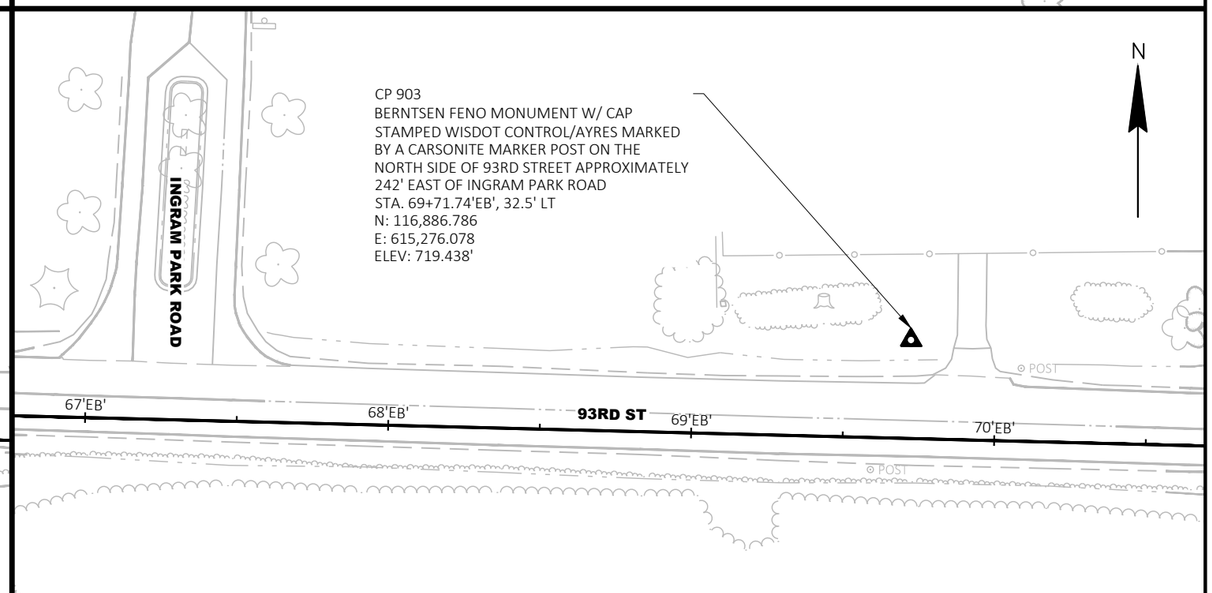
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2









PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET 107 E

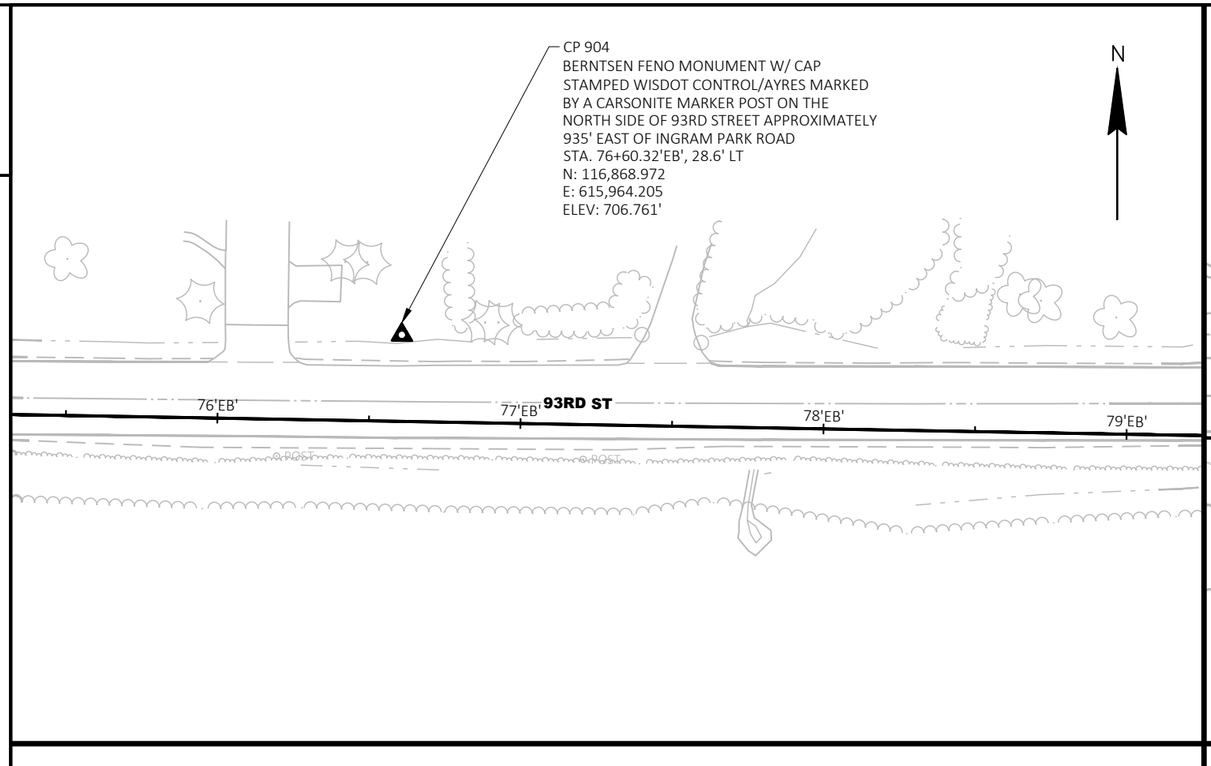
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LAYOUT NAME - 01

PLOT DATE : 7/21/2026 2:23 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:50 FT

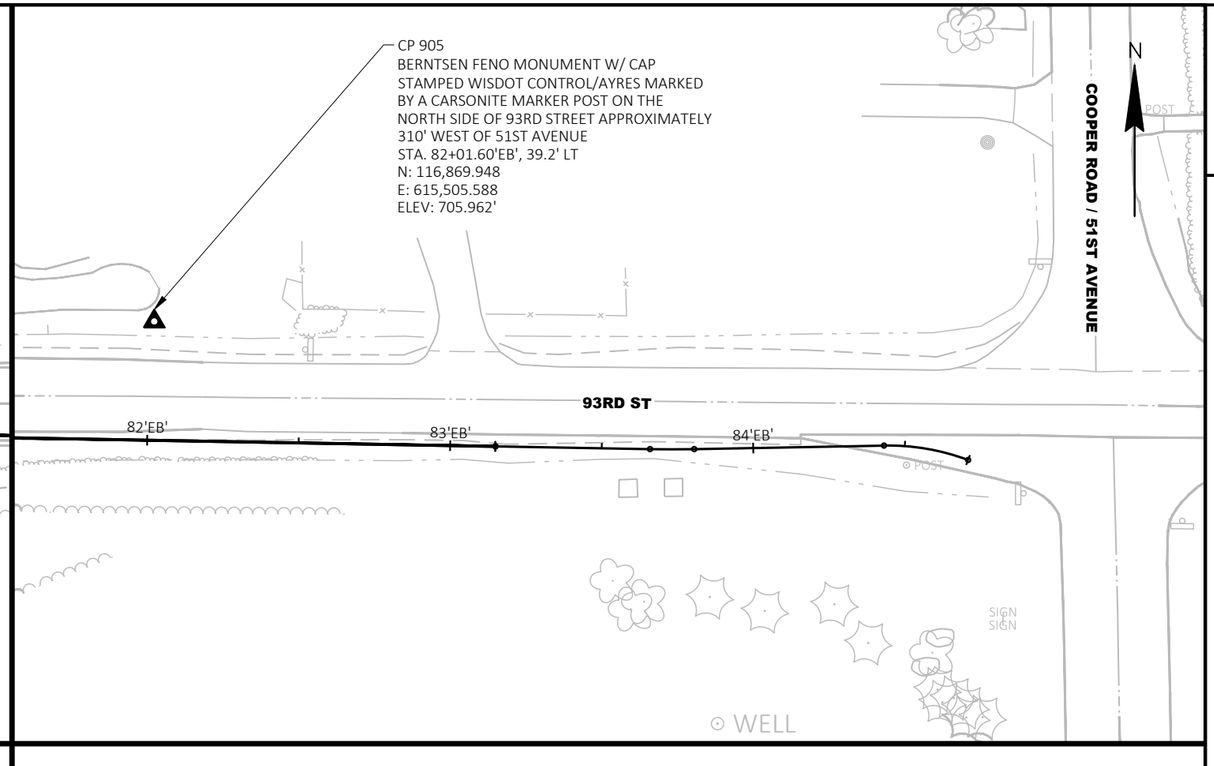
WISDOT/CADDS SHEET 42

2

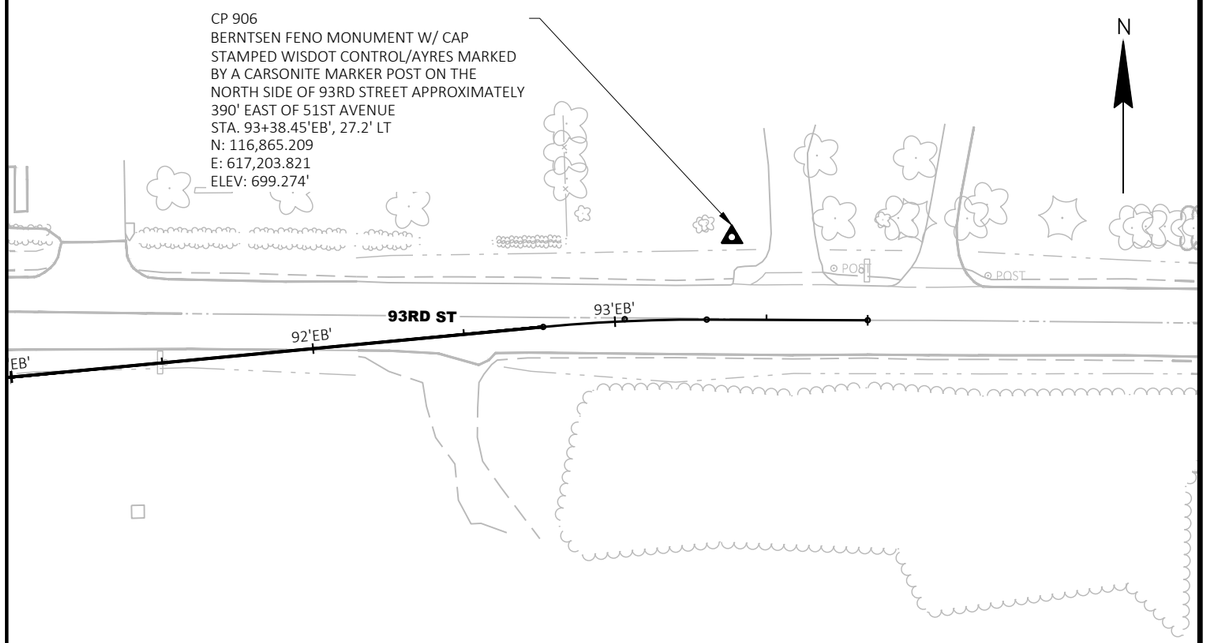
CP 904
BERNTSEN FENO MONUMENT W/ CAP
STAMPED WISDOT CONTROL/AYRES MARKED
BY A CARSONITE MARKER POST ON THE
NORTH SIDE OF 93RD STREET APPROXIMATELY
935' EAST OF INGRAM PARK ROAD
STA. 76+60.32'EB', 28.6' LT
N: 116,868.972
E: 615,964.205
ELEV: 706.761'



CP 905
BERNTSEN FENO MONUMENT W/ CAP
STAMPED WISDOT CONTROL/AYRES MARKED
BY A CARSONITE MARKER POST ON THE
NORTH SIDE OF 93RD STREET APPROXIMATELY
310' WEST OF 51ST AVENUE
STA. 82+01.60'EB', 39.2' LT
N: 116,869.948
E: 615,505.588
ELEV: 705.962'



CP 906
BERNTSEN FENO MONUMENT W/ CAP
STAMPED WISDOT CONTROL/AYRES MARKED
BY A CARSONITE MARKER POST ON THE
NORTH SIDE OF 93RD STREET APPROXIMATELY
390' EAST OF 51ST AVENUE
STA. 93+38.45'EB', 27.2' LT
N: 116,865.209
E: 617,203.821
ELEV: 699.274'



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET 108	E

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	3830-01-70 Qty	3830-01-71 Qty
0002	201.0105	Clearing	STA	35.000	35.000	
0004	201.0205	Grubbing	STA	35.000	35.000	
0006	203.0100	Removing Small Pipe Culverts	EACH	22.000	22.000	
0008	204.0100	Removing Concrete Pavement	SY	60.000	60.000	
0010	204.0150	Removing Curb & Gutter	LF	220.000	220.000	
0012	204.0155	Removing Concrete Sidewalk	SY	10.000	10.000	
0014	204.0210	Removing Manholes	EACH	1.000	1.000	
0016	204.0220	Removing Inlets	EACH	2.000	2.000	
0018	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	41.000	41.000	
0020	205.0100	Excavation Common	CY	25,153.000	25,153.000	
0022	209.1500	Backfill Granular Grade 1	TON	9,170.000	9,170.000	
0024	213.0100	Finishing Roadway (project) 01. 3830-01-70	EACH	1.000	1.000	
0026	305.0110	Base Aggregate Dense 3/4-Inch	TON	24.000	24.000	
0028	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	7,274.000	7,274.000	
0030	310.0110	Base Aggregate Open-Graded	TON	4,234.000	4,234.000	
0032	405.0100	Coloring Concrete WisDOT Red	CY	110.000	110.000	
0034	415.0070	Concrete Pavement 7-Inch	SY	15,042.000	15,042.000	
0036	415.0210	Concrete Pavement Gaps	EACH	19.000	19.000	
0038	415.2010	Concrete Truck Apron 12-Inch	SY	317.000	317.000	
0040	416.0610	Drilled Tie Bars	EACH	4.000	4.000	
0042	416.0620	Drilled Dowel Bars	EACH	36.000	36.000	
0044	455.0605	Tack Coat	GAL	1,167.000	1,167.000	
0046	460.2000	Incentive Density HMA Pavement	DOL	1,150.000	1,150.000	
0048	460.5224	HMA Pavement 4 LT 58-28 S	TON	191.000	191.000	
0050	460.5424	HMA Pavement 4 LT 58-28 H	TON	1,635.000	1,635.000	
0052	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	20.000	20.000	
0054	465.0125	Asphaltic Surface Temporary	TON	123.000	123.000	
0056	520.1015	Apron Endwalls for Culvert Pipe 15-Inch	EACH	5.000	5.000	
0058	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	4.000	4.000	
0060	520.3515	Culvert Pipe Class III-B 15-Inch	LF	46.000	46.000	
0062	520.3518	Culvert Pipe Class III-B 18-Inch	LF	74.000	74.000	
0064	520.8000	Concrete Collars for Pipe	EACH	2.000	2.000	
0066	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	1.000	1.000	
0068	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	1.000	1.000	
0070	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000	
0072	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	1.000	1.000	
0074	522.2619	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	2.000	2.000	
0076	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	89.000	89.000	
0078	602.0405	Concrete Sidewalk 4-Inch	SF	375.000	375.000	
0080	602.0410	Concrete Sidewalk 5-Inch	SF	21,360.000	21,360.000	
0082	602.0415	Concrete Sidewalk 6-Inch	SF	1,510.000	1,510.000	
0084	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	196.000	196.000	
0086	602.0810	Concrete Driveway 6-Inch	SY	520.000	520.000	
0088	606.0100	Riprap Light	CY	25.000	25.000	
0090	606.0200	Riprap Medium	CY	25.000	25.000	
0092	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	1,200.000	1,200.000	
0094	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	624.000	624.000	
0096	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	284.000	284.000	
0098	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	236.000	236.000	

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	3830-01-70 Qty	3830-01-71 Qty
0100	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	812.000	812.000	
0102	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	262.000	262.000	
0104	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	42.000	42.000	
0106	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	122.000	122.000	
0108	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	384.000	384.000	
0110	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	350.000	350.000	
0112	608.2319	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 19x30-Inch	LF	76.000	76.000	
0114	608.3015	Storm Sewer Pipe Class III-A 15-Inch	LF	72.000	72.000	
0116	611.0530	Manhole Covers Type J	EACH	15.000	15.000	
0118	611.0606	Inlet Covers Type B	EACH	1.000	1.000	
0120	611.0609	Inlet Covers Type B-A	EACH	11.000	11.000	
0122	611.0624	Inlet Covers Type H	EACH	32.000	32.000	
0124	611.0639	Inlet Covers Type H-S	EACH	11.000	11.000	
0126	611.0645	Inlet Covers Type MS-A	EACH	2.000	2.000	
0128	611.2004	Manholes 4-FT Diameter	EACH	7.000	7.000	
0130	611.2005	Manholes 5-FT Diameter	EACH	7.000	7.000	
0132	611.2006	Manholes 6-FT Diameter	EACH	3.000	3.000	
0134	611.3004	Inlets 4-FT Diameter	EACH	4.000	4.000	
0136	611.3220	Inlets 2x2-FT	EACH	11.000	11.000	
0138	611.3230	Inlets 2x3-FT	EACH	38.000	38.000	
0140	611.3902	Inlets Median 2 Grate	EACH	1.000	1.000	
0142	611.8110	Adjusting Manhole Covers	EACH	1.000	1.000	
0144	611.8115	Adjusting Inlet Covers	EACH	2.000	2.000	
0146	612.0106	Pipe Underdrain 6-Inch	LF	7,925.000	7,925.000	
0148	619.1000	Mobilization	EACH	1.000	1.000	
0150	620.0300	Concrete Median Sloped Nose	SF	493.000	493.000	
0152	624.0100	Water	MGAL	254.000	254.000	
0154	625.0100	Topsoil	SY	19,750.000	19,750.000	
0156	628.1504	Silt Fence	LF	5,970.000	5,970.000	
0158	628.1520	Silt Fence Maintenance	LF	5,970.000	5,970.000	
0160	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000	
0162	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000	
0164	628.2008	Erosion Mat Urban Class I Type B	SY	19,750.000	19,750.000	
0166	628.7005	Inlet Protection Type A	EACH	53.000	53.000	
0168	628.7010	Inlet Protection Type B	EACH	12.000	12.000	
0170	628.7015	Inlet Protection Type C	EACH	31.000	31.000	
0172	628.7020	Inlet Protection Type D	EACH	14.000	14.000	
0174	628.7504	Temporary Ditch Checks	LF	39.000	39.000	
0176	628.7555	Culvert Pipe Checks	EACH	33.000	33.000	
0178	629.0210	Fertilizer Type B	CWT	13.000	13.000	
0180	630.0140	Seeding Mixture No. 40	LB	1,015.000	1,015.000	
0182	630.0200	Seeding Temporary	LB	254.000	254.000	
0184	630.0300	Seeding Borrow Pit	LB	100.000	100.000	
0186	630.0500	Seed Water	MGAL	404.000	404.000	
0188	634.0612	Posts Wood 4x6-Inch x 12-FT	EACH	10.000	10.000	
0190	634.0614	Posts Wood 4x6-Inch x 14-FT	EACH	4.000	4.000	
0192	637.2210	Signs Type II Reflective H	SF	90.880	90.880	
0194	638.2102	Moving Signs Type II	EACH	3.000	3.000	
0196	638.2602	Removing Signs Type II	EACH	9.000	9.000	

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	3830-01-70 Qty	3830-01-71 Qty
0198	638.3000	Removing Small Sign Supports	EACH	9.000	9.000	
0200	638.4000	Moving Small Sign Supports	EACH	3.000	3.000	
0202	640.1303.S	Pond Liner Clay	CY	1,820.000	1,820.000	
0204	642.5201	Field Office Type C	EACH	1.000	1.000	
0206	643.0300	Traffic Control Drums	DAY	6,390.000	6,390.000	
0208	643.0420	Traffic Control Barricades Type III	DAY	1,818.000	1,818.000	
0210	643.0705	Traffic Control Warning Lights Type A	DAY	2,572.000	2,572.000	
0212	643.0715	Traffic Control Warning Lights Type C	DAY	224.000	224.000	
0214	643.0900	Traffic Control Signs	DAY	17,459.000	17,459.000	
0216	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000	
0218	643.5000	Traffic Control	EACH	1.000	1.000	
0220	645.0111	Geotextile Type DF Schedule A	SY	4,418.000	4,418.000	
0222	645.0120	Geotextile Type HR	SY	102.000	102.000	
0224	645.0130	Geotextile Type R	SY	105.000	105.000	
0226	646.1020	Marking Line Epoxy 4-Inch	LF	16,489.000	16,489.000	
0228	646.6120	Marking Stop Line Epoxy 18-Inch	LF	30.000	30.000	
0230	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	48.000	48.000	
0232	646.7120	Marking Diagonal Epoxy 12-Inch	LF	92.000	92.000	
0234	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	362.000	362.000	
0236	646.8120	Marking Curb Epoxy	LF	80.000	80.000	
0238	646.8220	Marking Island Nose Epoxy	EACH	8.000	8.000	
0240	650.4000	Construction Staking Storm Sewer	EACH	71.000	71.000	
0242	650.4500	Construction Staking Subgrade	LF	4,771.000	4,771.000	
0244	650.5000	Construction Staking Base	LF	198.000	198.000	
0246	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	89.000	89.000	
0248	650.6000	Construction Staking Pipe Culverts	EACH	2.000	2.000	
0250	650.7000	Construction Staking Concrete Pavement	LF	4,573.000	4,573.000	
0252	650.9000	Construction Staking Curb Ramps	EACH	14.000	14.000	
0254	650.9500	Construction Staking Sidewalk (project) 01. 3830-01-70	EACH	1.000	1.000	
0256	650.9911	Construction Staking Supplemental Control (project) 01. 3830-01-70	EACH	1.000	1.000	
0258	650.9920	Construction Staking Slope Stakes	LF	4,771.000	4,771.000	
0260	690.0150	Sawing Asphalt	LF	299.000	299.000	
0262	690.0250	Sawing Concrete	LF	149.000	149.000	
0264	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	4,663.000	4,663.000	
0266	740.0440	Incentive IRI Ride	DOL	2,960.000	2,960.000	
0268	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,800.000	1,800.000	
0270	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	4,900.000	4,900.000	
0272	SPV.0060	Special 01. Cored Holes 6-Inch	EACH	4.000	4.000	
0274	SPV.0060	Special 02. Basin Riser 48-Inch	EACH	2.000	2.000	
0276	SPV.0060	Special 03. Section Corner Monuments	EACH	1.000	1.000	
0278	SPV.0060	Special 04. Temporary Water Diversion - Station 77+84	EACH	1.000	1.000	
0280	SPV.0060	Special 05. Storm Sewer Tracer Wire Access Box	EACH	10.000	10.000	
0282	SPV.0060	Special 06. Clay Collar	EACH	2.000	2.000	
0284	SPV.0060	Special 50. 4-Inch Sanitary Cleanout	EACH	11.000		11.000
0286	SPV.0060	Special 51. Connect to Existing Sanitary Manhole	EACH	2.000		2.000
0288	SPV.0060	Special 52. Adjust Sanitary Manhole	EACH	5.000		5.000
0290	SPV.0060	Special 53. Sanitary Manhole Casting	EACH	5.000		5.000
0292	SPV.0060	Special 54. Sanitary Sewer Tracer Wire Access Box	EACH	16.000		16.000
0294	SPV.0060	Special 55. Gate Valve and Box, 8-Inch	EACH	1.000		1.000

Line	Item	Item Description	Unit	Total	3830-01-70 Qty	3830-01-71 Qty
0296	SPV.0060	Special 56. Gate Valve and Box, 6-Inch	EACH	11.000		11.000
0298	SPV.0060	Special 57. Butterfly Valve and Box, 16-Inch	EACH	14.000		14.000
0300	SPV.0060	Special 58. Butterfly Valve and Box, 12-Inch	EACH	3.000		3.000
0302	SPV.0060	Special 59. Hydrant Assembly	EACH	9.000		9.000
0304	SPV.0060	Special 60. Air Release Hydrant Assembly	EACH	3.000		3.000
0306	SPV.0060	Special 61. Water Service Corp Stop, 1.25-Inch	EACH	19.000		19.000
0308	SPV.0060	Special 62. Curb Stop and Box, 1.25-Inch	EACH	19.000		19.000
0310	SPV.0060	Special 63. Water Main Tracer Wire Access Box	EACH	19.000		19.000
0312	SPV.0060	Special 64. Remove and Salvage Existing Hydrant	EACH	9.000		9.000
0314	SPV.0060	Special 65. Abandon Existing Water Valve	EACH	17.000		17.000
0316	SPV.0060	Special 66. Bulkhead Existing Water Main	EACH	13.000		13.000
0318	SPV.0060	Special 67. Connect to Existing Water Main	EACH	5.000		5.000
0320	SPV.0060	Special 68. Connect to Existing Water Service	EACH	10.000		10.000
0322	SPV.0060	Special 69. Construction Staking Water Main	EACH	1.000		1.000
0324	SPV.0060	Special 70. Construction Staking Sanitary Sewer	EACH	1.000		1.000
0326	SPV.0090	Special 01. Concrete Curb & Gutter 30-Inch Type A Modified	LF	7,754.000	7,754.000	
0328	SPV.0090	Special 02. Concrete Curb & Gutter 18-Inch Type A Modified	LF	112.000	112.000	
0330	SPV.0090	Special 03. Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A Modified	LF	340.000	340.000	
0332	SPV.0090	Special 04. Concrete Curb & Gutter 3-Inch Sloped 30-Inch Type R Modified	LF	173.000	173.000	
0334	SPV.0090	Special 05. Concrete Curb & Gutter HES 30-Inch Type A Modified	LF	186.000	186.000	
0336	SPV.0090	Special 06. Storm Sewer Laterals 4-Inch	LF	24.000	24.000	
0338	SPV.0090	Special 07. Concrete Curb Pedestrian Special	LF	20.000	20.000	
0340	SPV.0090	Special 50. Sanitary Lateral Pipe PVC, 4-Inch	LF	693.000		693.000
0342	SPV.0090	Special 51. Sanitary Lateral Pipe PVC, 6-Inch	LF	42.000		42.000
0344	SPV.0090	Special 52. Sanitary Sewer Pipe PVC, 8-Inch	LF	1,867.000		1,867.000
0346	SPV.0090	Special 53. Sanitary Sewer Pipe PVC, 12-Inch	LF	1,145.000		1,145.000
0348	SPV.0090	Special 54. Water Main Pipe PVC, 6-Inch	LF	197.000		197.000
0350	SPV.0090	Special 55. Water Main Pipe PVC, 8-Inch	LF	39.000		39.000
0352	SPV.0090	Special 56. Water Main Pipe PVC, 12-Inch	LF	266.000		266.000
0354	SPV.0090	Special 57. Water Main Pipe PVC, 16-Inch	LF	4,004.000		4,004.000
0356	SPV.0090	Special 58. Water Service Pipe HDPE, 1.25-Inch	LF	762.000		762.000
0358	SPV.0090	Special 59. Abandon Existing Water Main W/ Flowable Fill	LF	4,275.000		4,275.000
0360	SPV.0090	Special 60. Remove Existing Water Main	LF	153.000		153.000
0362	SPV.0090	Special 61. Televising Sewers	LF	8,211.000	4,464.000	3,747.000
0364	SPV.0165	Special 50. Water Main Insulation	SF	160.000		160.000
0366	SPV.0180	Special 01. Concrete Pavement HES 7-Inch	SY	500.000	500.000	
0368	SPV.0200	Special 50. Sanitary Manhole 4-FT Diameter	VF	132.500		132.500
0370	SPV.0200	Special 51. Sanitary Manhole Outside Drop	VF	5.500		5.500
0372	SPV.0200	Special 52. 4-Inch Sanitary Riser	VF	62.600		62.600

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

3

REMOVALS

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER (SIZE) (01. 12-INCH) LF
0010	49+87 'EB'	-	50+90 'EB'	93RD ST	-	220	-	-	1	26
	52+00 'EB'	-	52+20 'EB'	93RD ST, RT	-	-	-	1	1	15
	55+90 'EB'	-	56+00 'EB'	93RD ST, RT	13	-	-	-	-	-
	60+00 'EB'	-	60+15 'EB'	93RD ST, LT	4	-	-	-	-	-
	69+85 'EB'	-	70+00 'EB'	93RD ST, LT	12	-	-	-	-	-
	72+60 'EB'	-	72+90 'EB'	93RD ST, LT	11	-	-	-	-	-
	75+95 'EB'	-	76+30 'EB'	93RD ST, LT	20	-	-	-	-	-
	100+60 'NB'	-	100+70 'NB'	COOPER RD, RT	-	-	10	-	-	-
				TOTAL 0010	60	220	10	1	2	41

SIDEWALK AND DRIVEWAY ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0415 CONCRETE SIDEWALK 6-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0810 CONCRETE DRIVEWAY 6-INCH SY	* 624.0100 WATER MGAL
0010	49+87 'EB'	-	58+50 'EB'	93RD ST	210	-	2,960	160	10	105	2
	58+50 'EB'	-	67+25 'EB'	93RT ST	290	6	4,240	410	34	124	3
	67+25 'EB'	-	83+25 'EB'	93RD ST	520	8	7,500	670	24	207	6
	83+25 'EB'	-	101+32 'NB'	ROUNDABOUT NW QUAD	100	6	1,700	-	32	21	1
	101+32 'NB'	-	92+50 'EB	ROUNDABOUT NE QUAD	110	-	1,810	110	32	45	1
	83+25 'EB'	-	93+85 'NB'	ROUNDABOUT SW QUAD	110	-	1,450	160	32	18	1
	93+85 'NB'	-	92+50 'EB	ROUNDABOUT SE QUAD	80	-	1,700	-	32	-	1
				TOTAL 0010	1,420	20	21,360	1,510	196	520	15

NOTES:

- SEE PLAN DETAILS FOR DRIVEWAY MATERIALS AND LOCATIONS

*** ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLANS**

FROM/TO STATION	LOCATION	205.0100 EXCAVATION COMMON (1) CUT (2)	205.0100 EXCAVATION COMMON (1) EBS EXCAVATION	UNEXPANDED FILL	EXPANDED FILL FACTOR 1.30	MASS ORDINATE +/- (4)	WASTE	COMMENT
48+75.00/49+75.00	93RD DITCH LT	118	0	0	0	118	118	
49+87.00/83+00.00	93RD MAINLINE	12,968	0	2,017	2,622	10,346	10,346	
10+21.00/11+81.00	93RD RAB CIRCLE	690	0	173	225	465	465	
83+25.00/84+50.00	93RD EB WEST LEG	380	0	1	1	379	379	
83+25.00/84+50.00	93RD WB WEST LEG	612	0	3	4	608	608	
90+25.00/93+71.50	93RD EB EAST LEG	750	0	27	35	715	715	
90+25.00/91+50.00	93RD WB EAST LEG	463	0	9	12	451	451	
93+85.00/94+75.00	93RD NB SOUTH LEG	244	0	20	26	218	218	
94+00.00/94+75.00	93RD SB SOUTH LEG	340	0	3	4	336	336	
100+25.00/101+50.00	93RD NB NORTH LEG	288	0	23	30	258	258	
100+25.00/101+45.00	93RD SB NORTH LEG	466	0	11	14	452	452	
	STORMWATER POND 1	4,382	0	1,585	1,981	2,401	2,401	SURF-SURF
	STORMWATER POND 2	1,752	0	378	472	1,280	1,280	SURF-SURF
UNDISTRIBUTED	PROJECT WIDE	-	1,700	-	-	-	-	
GRAND TOTAL		23,453	1,700	4,249	5,426	18,027	18,027	
TOTAL COMMON EXC		25,153						

NOTES:

(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

(3) EBS EXCAVATION TO BE BACKFILLED WITH GRANULAR BACKFILL GRADE 1 OR BASE AGGREGATE DENSE 1 1/4-INCH.

(4) 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.

CLEARING AND GRUBBING

CATEGORY	STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
0010	50+00 'EB'	-	84+00 'EB'	93RD ST	34	34
	100+00 'NB'	-	101+00 'NB'	COOPER RD	1	1
				TOTAL 0010	35	35

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

3

CONCRETE PAVEMENT AND CURB

CATEGORY	STATION	TO	STATION	LOCATION	405.0100 COLORING CONCRETE WISDOT RED CY	415.0070 CONCRETE PAVEMENT 7-INCH SY	415.0210 CONCRETE PAVEMENT GAPS EACH	415.2010 CONCRETE TRUCK APRON 12-INCH SY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	602.0405 CONCRETE SIDEWALK 4-INCH SF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	SPV.0090.01 SPECIAL (01. CONCRETE CURB & GUTTER 30-IN TYPE A MODIFIED) LF	SPV.0090.02 SPECIAL (02. CONCRETE CURB & GUTTER 18-INCH TYPE A MODIFIED) LF	SPV.0090.03 SPECIAL (03. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A MODIFIED) LF	SPV.0090.04 SPECIAL (04. CONCRETE CURB & GUTTER 3-INCH SLOPED 30-INCH TYPE R MODIFIED) LF	SPV.0090.05 SPECIAL (05. CONCRETE CURB & GUTTER HES 30-IN TYPE A MODIFIED) LF	SPV.0090.07 SPECIAL (07. CONCRETE CURB PEDESTRIAN SPECIAL) LF	SPV.0180.01 SPECIAL (01. CONCRETE PAVEMENT HES 7-INCH) SY
0010	49+40 'EB'	-	58+50 'EB'	93RD ST	-	3,490	5	-	4	-	-	-	-	1,724	-	-	-	44	-	150
	58+50 'EB'	-	67+25 'EB'	93RT ST	2	3,170	5	-	-	-	-	190	79	1,699	58	-	-	49	-	170
	67+25 'EB'	-	83+25 'EB'	93RD ST	2	5,910	9	-	-	-	-	185	86	3,097	54	-	-	93	-	180
	83+25 'EB'	-	84+71 'EB'	93RD ST	6	482	-	18	-	-	-	-	80	276	-	90	-	-	-	-
	90+00 'EB'	-	92+50 'EB	93RD ST	6	532	-	18	-	-	89	-	80	296	-	90	-	-	-	-
	93+85 'NB'	-	95+00 'NB'	COOPER RD	6	388	-	17	-	36	-	-	83	216	-	78	-	-	20	-
	100+00 'NB'	-	101+32 'NB'	COOPER RD	6	428	-	19	-	-	-	-	85	244	-	82	-	-	-	-
	10+00 'RA'	-	11+85 'RA'	ROUNDABOUT	82	642	-	245	-	-	-	-	-	202	-	-	173	-	-	-
				TOTAL 0010	110	15,042	19	317	4	36	89	375	493	7,754	112	340	173	186	20	500

NOTES:

- HES CONCRETE ITEMS AND PAVEMENT GAPS FOR STAGING OF SIDEROADS AND DRIVEWAYS CONSTRUCTED 1/2 AT A TIME

HMA PAVEMENT

CATEGORY	STATION	TO	STATION	LOWER LAYER THICKNESS INCHES	UPPER LAYER THICKNESS INCHES	LOCATION	455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	460.5424 HMA PAVEMENT 4 LT 58-28 H TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	REMARKS
0010	49+40 'EB'	-	49+87 'EB'	3.75	1.75	93RD ST	8	24	11	-	
	49+87 'EB'	-	58+50 'EB'	-	1.75	93RD ST	255	-	357	-	
	58+50 'EB'	-	67+25 'EB'	-	1.75	93RD ST	234	-	328	-	
	67+25 'EB'	-	83+25 'EB'	-	1.75	93RD ST	426	-	597	-	
	83+25 'EB'	-	84+71 'EB'	-	1.75	93RD ST	34	-	47	-	
	90+00 'EB'	-	91+61 'EB'	-	1.75	93RD ST	37	-	52	-	
	91+61 'EB'	-	93+30 'EB'	3.25	1.75	93RD ST	35	91	49	-	
	93+85 'NB'	-	95+00 'NB'	-	1.75	COOPER RD	27	-	38	-	
	100+00 'NB'	-	101+32 'NB'	-	1.75	COOPER RD	30	-	42	-	
	101+32 'NB'	-	101+62 'NB'	-	1.75	COOPER RD	7	-	10	-	
	10+00 'RA'	-	11+85 'RA'	-	1.75	ROUNDABOUT	45	-	63	-	
	5+17 'S'	-	5+83 'S'	3.25	1.75	60TH AVE	18	47	25	-	
	10+20 'IP'	-	10+51 'IP'	3.25	1.75	INGRAM PARK	11	29	16	-	
	83+25 'EB'	-	91+61 'EB'	-	-	93RD ST/COOPER RD INTERSECTION	-	-	-	123	4-INCH FOR TRENCHES
						TOTAL 0010	1,167	191	1,635	123	

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

ROADWAY AGGREGATE

CATEGORY	STATION	TO	STATION	LOCATION	209.1500 BACKFILL GRANULAR GRADE 1 TON	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	* 624.0100 WATER MGAL	REMARKS
0010	49+87 'EB'	-	52+00 'EB'	93RD ST	-	-	300	260	9	
	52+00 'EB'	-	57+00 'EB'	93RD ST	2740	-	810	-	53	
	57+00 'EB'	-	58+50 'EB'	93RD ST	-	-	150	150	4	
	58+50 'EB'	-	67+25 'EB'	93RD ST	-	-	900	850	26	
	67+25 'EB'	-	82+00 'EB'	93RD ST	-	-	1510	1430	44	
	82+00 'EB'	-	83+25 'EB'	93RD ST	650	-	190	-	13	
	83+25 'EB'	-	84+71 'EB'	93RD ST	730	-	220	-	14	
	90+00 'EB'	-	92+50 'EB	93RD ST	800	-	240	-	15	
	92+50 'EB	-	93+30 'EB'	93RD ST	-	15	430	-	7	
	93+85 'NB'	-	95+00 'NB'	COOPER RD	590	-	180	-	12	
	100+00 'NB'	-	101+32 'NB'	COOPER RD	650	-	190	-	13	
	101+32 'NB'	-	101+62 'NB'	COOPER RD	-	4	84	-	1	
	10+00 'RA'	-	11+85 'RA'	ROUNDABOUT	1160	-	340	-	23	
	5+17 'S'	-	5+83 'S'	60TH AVE	-	4	200	-	3	
	10+20 'IP'	-	10+51 'IP'	INGRAM PARK	-	1	110	-	2	
	-	-	-	PROJECT WIDE	1,850	-	-	1,160	-	UNDISTRIBUTED FOR EBS
				TOTAL 0010	9,170	24	5,854	3,850	239	

NOTES:

- EBS BACKFILL TO MATCH ROADWAY BASE MATERIAL SHOWN IN TYPICAL SECTIONS.

* ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLANS

CULVERT PIPES

CATEGORY	**INLET STATION	**INLET OFFSET	**INLET ELEV. (FT)	**OUTLET STATION	**OUTLET OFFSET	**OUTLET ELEV. (FT)	SLOPE (%)	PIPE THICKNESS (IN)	LOCATION	* 520.1015 APRON ENDWALLS FOR CULVERT PIPE 15-INCH EACH	520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH EACH	520.3515 CULVERT PIPE CLASS III-B 15-INCH LF	520.3518 CULVERT PIPE CLASS III-B 18-INCH LF
0010	52+19 'EB'	52.1' LT	700.09	51+93 'EB'	41.6' LT	699.94	0.79	0.064	93RD ST	2	-	28	-
	54+49 'EB'	46.0' LT	703.75	54+31 'EB'	46.7' LT	703.54	1.15	0.064	93RD ST	2	-	18	-
	54+43 'EB'	40.9' RT	703.69	54+28 'EB'	54.5' RT	703.30	1.19	0.064	93RD ST	-	2	-	20
	5+46 'S'	24.0' RT	708.80	5+49 'S'	29.9' LT	707.90	1.67	0.064	60TH AVE	-	2	-	54
									TOTAL 0010	4	4	46	74

* ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLANS

** PIPE INVERT AT END OF PIPE & STATION/OFFSET TO CENTER OF STRUCTURE

REMOVING SMALL PIPE CULVERTS

CATEGORY	STATION	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	REMARKS
0010	52+07 'EB'	93RD ST, LT	1	20'x15" CMCP
	54+40 'EB'	93RD ST, LT	1	34'x11"x17" CMCE
	55+95 'EB'	93RD ST, RT	1	20'x11"x17" CMCE
	57+15 'EB'	93RD ST, RT	1	48'x CMCP
	5+38 'S'	60TH AVE	1	70'x18" CMCP
	64+70 'EB'	93RD ST, LT	1	24'x10"x17" CMCE
	66+33 'EB'	93RD ST, LT	1	34'x10"x15" CMCE
	10+23 'IP'	INGRAM PARK RD	1	67'x15" CMCP
	71+44 'EB'	93RD ST, LT	1	24'x15" CMCP
	73+83 'EB'	93RD ST, LT	1	182'x12" PCP
	74+44 'EB'	93RD ST, LT	1	24'x12" CMCP
	76+12 'EB'	93RD ST, LT	1	24'x12" CMCP
	76+94 'EB'	93RD ST, LT	1	20'x12" CMCP
	77+53 'EB'	93RD ST, LT	1	23'x15" CMCP
	77+76 'EB'	93RD ST	1	44'x21" RCCP
	78+31 'EB'	93RD ST, LT	1	27'x12" CMCP
	79+99 'EB'	93RD ST, LT	1	24'x15" CMCP
	81+17 'EB'	93RD ST, LT	1	24'x10"x15" CMCE
	83+02 'EB'	93RD ST, LT	1	24'x15" CMCP
	11+00 'RA'	93RD ST, RT	1	24'x15" CMCP
	100+78 'NB'	93RD ST, LT	1	24'x12" CMCP
	101+16 'NB'	93RD ST, LT	1	24'x12" CMCP
		TOTAL 0010	22	

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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3

STORM SEWER PIPES

CATEGORY	FROM	TO	* 608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0430 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	608.2319 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 19X30-INCH LF	* SPV.0090.61 SPECIAL (61. TELEVISING SEWERS) LF	INLET ELEVATION (FT)	DISCHARGE ELEVATION (FT)	SLOPE (FT/FT)
0010	10	11	-	-	-	-	-	34	-	-	-	-	-	34	698.97	698.87	0.0030
	12	11	-	-	-	-	-	20	-	-	-	-	-	20	698.94	698.87	0.0034
	100	102	-	-	-	-	44	-	-	-	-	-	-	44	700.22	700.00	0.0051
	110	100	-	-	-	-	-	-	-	-	-	230	-	230	701.43	700.32	0.0048
	120	110	-	-	-	-	-	-	-	-	-	120	-	120	702.15	701.53	0.0052
	130	120	-	-	-	-	142	-	-	-	-	-	-	142	702.96	702.25	0.0050
	140	130	-	-	-	-	350	-	-	-	-	-	-	350	704.80	703.06	0.0050
	150	140	-	-	-	-	276	-	-	-	-	-	-	276	706.27	704.90	0.0050
	160	150	-	-	-	156	-	-	-	-	-	-	-	156	708.10	706.77	0.0086
	170	160	126	-	-	-	-	-	-	-	-	-	-	126	713.48	709.90	0.0284
	101	100	-	-	-	-	-	40	-	-	-	-	-	40	700.52	700.32	0.0050
	111	110	30	-	-	-	-	-	-	-	-	-	-	30	701.68	701.53	0.0051
	113	112	8	-	-	-	-	-	-	-	-	-	-	8	701.72	701.67	0.0061
	112	110	8	-	-	-	-	-	-	-	-	-	-	8	701.57	701.53	0.0053
	121	120	30	-	-	-	-	-	-	-	-	-	-	30	705.35	705.20	0.0051
	123	122	8	-	-	-	-	-	-	-	-	-	-	8	705.24	705.20	0.0050
	122	120	-	8	-	-	-	-	-	-	-	-	-	8	705.10	705.06	0.0053
	131	130	34	-	-	-	-	-	-	-	-	-	-	34	707.60	707.43	0.0050
	132	130	8	-	-	-	-	-	-	-	-	-	-	8	707.65	707.61	0.0053
	152	151	24	-	-	-	-	-	-	-	-	-	-	24	707.85	707.73	0.0053
	151	150	30	-	-	-	-	-	-	-	-	-	-	30	707.63	707.48	0.0051
	154	153	-	-	-	12	-	-	-	-	-	-	-	12	706.79	706.73	0.0057
	153	150	-	-	-	8	-	-	-	-	-	-	-	8	706.63	706.59	0.0053
	155	153	24	-	-	-	-	-	-	-	-	-	-	24	707.85	707.73	0.0053
	162	161	24	-	-	-	-	-	-	-	-	-	-	24	710.30	710.17	0.0054
	161	160	34	-	-	-	-	-	-	-	-	-	-	34	710.07	709.90	0.0052
	163	160	12	-	-	-	-	-	-	-	-	-	-	12	710.19	710.13	0.0057
	172	171	30	-	-	-	-	-	-	-	-	-	-	30	714.00	713.85	0.0050
	171	170	34	-	-	-	-	-	-	-	-	-	-	34	713.75	713.58	0.0052
	173	170	12	-	-	-	-	-	-	-	-	-	-	12	713.90	713.84	0.0057
PAGE 1/3 -SUBTOTALS			476	8	0	176	812	94	0	0	0	350	0	1,916			

*** ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLANS**

CONTINUED ON NEXT PAGE

3

STORM SEWER PIPES (CONTINUED)

CATEGORY	FROM	TO	* 608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0430 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	608.2319 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 19X30-INCH LF	* SPV.0090.61 SPECIAL (61. TELEVISING SEWERS) LF	INLET ELEVATION (FT)	DISCHARGE ELEVATION (FT)	SLOPE (FT/FT)
0010	200	- 210	-	304	-	-	-	-	-	-	-	-	-	304	713.39	711.26	0.0070
	210	- 220	-	152	-	-	-	-	-	-	-	-	-	152	711.11	706.25	0.0320
	220	- 223	-	-	30	-	-	-	-	-	-	-	-	30	706.15	706.00	0.0050
	203	- 202	38	-	-	-	-	-	-	-	-	-	-	38	714.15	713.96	0.0051
	202	- 201	24	-	-	-	-	-	-	-	-	-	-	24	713.86	713.74	0.0050
	201	- 200	30	-	-	-	-	-	-	-	-	-	-	30	713.64	713.49	0.0051
	204	- 200	8	-	-	-	-	-	-	-	-	-	-	8	714.11	714.07	0.0053
	211	- 210	30	-	-	-	-	-	-	-	-	-	-	30	711.36	711.21	0.0051
	212	- 210	8	-	-	-	-	-	-	-	-	-	-	8	711.36	711.32	0.0053
	222	- 221	22	-	-	-	-	-	-	-	-	-	-	22	706.76	706.65	0.0051
	221	- 220	38	-	-	-	-	-	-	-	-	-	-	38	706.55	706.36	0.0051
	301	- 300	-	48	-	-	-	-	-	-	-	-	-	48	702.71	701.30	0.0300
	300	- 302	-	-	-	-	-	-	-	-	-	-	26	26	700.53	700.40	0.0050
	312	- 311	38	-	-	-	-	-	-	-	-	-	-	38	701.50	701.31	0.0051
	311	- 310	38	-	-	-	-	-	-	-	-	-	-	38	701.21	701.10	0.0030
	310	- 300	-	66	-	-	-	-	-	-	-	-	-	66	701.00	700.67	0.0051
	303	- 300	-	-	-	-	-	-	-	-	-	-	50	50	701.30	700.63	0.0133
PAGE 2/3 -SUBTOTALS			274	570	30	0	0	0	0	0	0	0	76	950			

*** ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLANS**

CONTINUED ON NEXT PAGE

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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STORM SEWER PIPES (CONTINUED)

CATEGORY	FROM	TO	* 608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0430 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	608.2319 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 19X30-INCH LF	* SPV.0090.61 SPECIAL (61. TELEVISING SEWERS) LF	INLET ELEVATION (FT)	DISCHARGE ELEVATION (FT)	SLOPE (FT/FT)
0010	401	- 400	54	-	-	-	-	-	-	-	-	-	-	54	701.91	701.64	0.0050
	400	- 410	118	-	-	-	-	-	-	-	-	-	-	118	701.54	700.95	0.0050
	410	- 420	-	-	182	-	-	-	-	-	-	-	-	182	699.39	697.76	0.0090
	420	- 430	-	-	72	-	-	-	-	-	-	-	-	72	697.66	696.81	0.0120
	430	- 440	-	-	-	-	-	-	-	32	-	-	-	32	696.81	696.71	0.0032
	440	- 450	-	-	-	-	-	-	-	90	-	-	-	90	696.71	696.44	0.0030
	450	- 460	-	-	-	-	-	-	-	-	110	-	-	110	696.25	695.92	0.0030
	460	- 470	-	-	-	-	-	-	-	-	274	-	-	274	695.82	695.01	0.0030
	470	- 50	-	-	-	60	-	-	-	-	-	-	-	60	694.91	694.73	0.0030
	411	- 410	-	16	-	-	-	-	-	-	-	-	-	16	701.25	701.16	0.0055
	412	- 410	-	30	-	-	-	-	-	-	-	-	-	30	701.50	701.35	0.0051
	421	- 420	34	-	-	-	-	-	-	-	-	-	-	34	698.09	697.92	0.0051
	422	- 420	8	-	-	-	-	-	-	-	-	-	-	8	698.19	698.15	0.0051
	441	- 440	52	-	-	-	-	-	-	-	-	-	-	52	696.90	696.71	0.0037
	452	- 451	-	-	-	-	-	40	-	-	-	-	-	40	696.82	696.71	0.0030
	451	- 450	-	-	-	-	-	86	-	-	-	-	-	86	696.61	696.35	0.0030
	454	- 453	34	-	-	-	-	-	-	-	-	-	-	34	697.33	696.66	0.0200
	453	- 450	-	-	-	-	-	-	42	-	-	-	-	42	696.56	696.35	0.0050
	456	- 455	42	-	-	-	-	-	-	-	-	-	-	42	697.72	697.00	0.0176
	455	- 453	48	-	-	-	-	-	-	-	-	-	-	48	696.90	696.66	0.0050
	463	- 462	22	-	-	-	-	-	-	-	-	-	-	22	697.38	696.12	0.0600
	462	- 460	-	-	-	-	-	34	-	-	-	-	-	34	696.02	695.92	0.0030
	461	- 460	-	-	-	-	-	8	-	-	-	-	-	8	695.95	695.92	0.0040
PAGE 3/3 -SUBTOTALS			412	46	254	60	0	168	42	122	384	0	0	1,488			
TOTAL 0010			1,162	624	284	236	812	262	42	122	384	350	76	4,354			

*** ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLANS**

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

STORM SEWER STRUCTURES

CATEGORY	STRUCTURE	* STATION	* OFFSET	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	522.2619 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19X30-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0606 INLET COVERS TYPE B EACH	611.0609 INLET COVERS TYPE B-A EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0645 INLET COVERS TYPE MS-A EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3220 INLETS 2X2-FT EACH	611.3230 INLETS 2X3-FT EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	SPV.0060.05 SPECIAL (05. STORM SEWER TRACER WIRE ACCESS BOX) EACH	SPV.0090.06 SPECIAL (06. STORM SEWER LATERALS 4-INCH) LF
0010	ADJ-1	50+59 'EB'	23.3' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
	ADJ-2	50+60 'EB'	11.5' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
	ADJ-3	50+60 'EB'	23.1' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
	10	52+22 'EB'	22.6' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-
	11	52+06 'EB'	7.3' RT	1	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
	12	52+19 'EB'	23.6' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	100	53+85 'EB'	19.9' RT	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
	101	53+83 'EB'	19.7'LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-
	102	53+72 'EB'	61.8' RT	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	110	56+13 'EB'	11.0' RT	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
	111	56+13 'EB'	18.5' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	112	56+13 'EB'	18.5' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	113	56+13 'EB'	26.8' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	120	57+32 'EB'	11.0' RT	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
	121	57+32 'EB'	18.5' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	122	57+32 'EB'	18.5' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	123	57+32 'EB'	26.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	130	58+74 'EB'	11.0' RT	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
	131	58+74 'EB'	23.2' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-
	132	58+74 'EB'	18.5' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	140	62+24 'EB'	11.0' RT	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
	150	65+00 'EB'	11.0' RT	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
	151	65+00 'EB'	18.5' LT	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
	152	64+78 'EB'	18.5' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	153	65+00 'EB'	18.5' LT	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
	154	65+00 'EB'	29.0' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
	155	64+78 'EB'	18.5' LT	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	1	-	-	-	-	-
	160	66+55 'EB'	11.0' RT	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
	161	66+56 'EB'	21.5' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	162	66+56 'EB'	45.8' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	163	66+56 'EB'	21.5' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	170	67+81 'EB'	11.0' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
	171	67+80 'EB'	21.5' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-
	172	67+60 'EB'	43.7' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	173	67+82 'EB'	21.5' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	PAGE 1/3 - SUBTOTALS			1	0	1	0	8	0	4	16	2	2	2	5	2	0	4	17	1	1	2	4	0

*** STATION AND OFFSET ARE TO CENTER OF STRUCTURE**

CONTINUED ON NEXT PAGE

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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STORM SEWER STRUCTURES (CONTINUED)

CATEGORY	STRUCTURE	* STATION	* OFFSET	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	522.2619 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19X30-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0606 INLET COVERS TYPE B EACH	611.0609 INLET COVERS TYPE B-A EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0645 INLET COVERS TYPE MS-A EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3220 INLETS 2X2-FT EACH	611.3230 INLETS 2X3-FT EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	SPV.0060.05 SPECIAL (05. STORM SEWER TRACER WIRE ACCESS BOX) EACH	SPV.0090.06 SPECIAL (06. STORM SEWER LATERALS 4-INCH) LF
0010	200	71+25 'EB'	11.0' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
	201	71+25 'EB'	18.5' LT	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	1	-
	202	71+25 'EB'	42.7' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	203	71+63 'EB'	42.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	204	71+26 'EB'	18.5' RT	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
	210	74+29 'EB'	11.0' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
	211	74+29 'EB'	18.5' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	212	74+29 'EB'	18.5' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	220	75+81 'EB'	18.5' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-
	221	75+80 'EB'	18.5' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-
	222	75+80 'EB'	39.9' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	223	75+81 'EB'	48.5' RT	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	300	77+82 'EB'	18.5' LT	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
	301	77+40 'EB'	39.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	302	77+84 'EB'	44.0' LT	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	303	77+76 'EB'	31.7' RT	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	310	78+46 'EB'	18.5' LT	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	1	-
	311	78+48 'EB'	18.5' RT	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
	312	78+10 'EB'	18.5' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	PAGE 2/3 - SUBTOTALS			0	1	0	2	2	0	4	6	4	0	2	0	1	1	4	8	0	0	0	3	0

*** STATION AND OFFSET ARE TO CENTER OF STRUCTURE**

CONTINUED ON NEXT PAGE

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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STORM SEWER STRUCTURES (CONTINUED)

CATEGORY	STRUCTURE	STATION *	OFFSET *	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	522.2619 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19X30-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0606 INLET COVERS TYPE B EACH	611.0609 INLET COVERS TYPE B-A EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0645 INLET COVERS TYPE MS-A EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3220 INLETS 2X2-FT EACH	611.3230 INLETS 2X3-FT EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	SPV.0060.05 SPECIAL (05. STORM SEWER TRACER WIRE ACCESS BOX) EACH	SPV.0090.06 SPECIAL (06. STORM SEWER LATERALS 4-INCH) LF
0010	400	80+63 'EB'	11.0' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
	401	80+63 'EB'	43.4' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	410	81+80 'EB'	11.0' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
	411	81+80 'EB'	27.3' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	412	81+80 'EB'	18.5' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	24
	420	83+61 'EB'	11.0' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	421	83+66 'EB'	21.2' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	422	83+59 'EB'	18.5' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	430	84+31 'EB'	13.5' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	440	84+67 'EB'	15.6' RT	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-
	441	84+67 'EB'	35.2' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	450	10+35 'RA'	6.0' RT	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
	451	100+24 'NB'	14.9' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-
	452	10+26 'NB'	24.1' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	453	94+92 'SB'	30.9' RT	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-
	454	94+60 'SB'	21.3' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-
	455	95+02 'SB'	16.0' LT	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
	456	94+61 'SB'	13.9' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	460	90+97 'EB'	11.0' RT	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
	461	90+96 'EB'	18.6' RT	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
	462	90+98 'EB'	22.3' LT	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
	463	91+00 'EB'	43.3' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	470	93+72 'EB'	31.1' RT	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
	50	93+70 'EB'	91.4' RT	1	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
	PAGE 3/3 - SUBTOTALS			1	0	0	0	5	1	3	10	5	0	3	2	0	3	3	13	0	0	0	3	24
	TOTAL 0010			2	1	1	2	15	1	11	32	11	2	7	7	3	4	11	38	1	1	2	10	24

*** STATION AND OFFSET ARE TO CENTER OF STRUCTURE**

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ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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PIPE UNDERDRAIN

CATEGORY	BEGIN STATION	BEGIN OFFSET	BEGIN ELEV.	BEGIN STR. NO.	END STATION	END OFFSET	END ELEV.	END STR. NO.	LOCATION	* 310.0110 BASE AGGREGATE OPEN-GRADED TON	612.0106 PIPE UNDERDRAIN 6-INCH LF	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY	SPV.0060.01 SPECIAL (01. CORED HOLES 6-INCH) EACH
0010	49+87 'EB'	23.3' LT	699.35	END CAP REQ'D	50+59 'EB'	23.3' LT	699.00	ADJ-1	93RD ST	3	72	44	1
	50+59 'EB'	23.3' LT	699.30	ADJ-1	52+00 'EB'	23.0' LT	700.24	END CAP REQ'D	93RD ST	6	142	87	1
	52+00 'EB'	23.0' LT	699.11	END CAP REQ'D	52+22 'EB'	22.5' LT	699.00	10	93RD ST	1	22	11	-
	52+22 'EB'	22.5' LT	699.18	10	53+83 'EB'	19.7' LT	701.16	101	93RD ST	9	161	81	-
	53+83 'EB'	19.7' LT	701.16	101	56+13 'EB'	18.5' LT	703.11	111	93RD ST	13	230	120	-
	56+13 'EB'	18.5' LT	703.11	111	57+00 'EB'	18.5' LT	704.47	END CAP REQ'D	93RD ST	5	87	44	-
	57+00 'EB'	18.5' LT	706.80	END CAP REQ'D	57+32 'EB'	18.5' LT	706.64	121	93RD ST	2	32	20	-
	57+32 'EB'	18.5' LT	706.85	121	58+74 'EB'	23.2' LT	709.21	131	93RD ST	7	147	90	-
	58+74 'EB'	23.2' LT	709.21	131	62+11 'EB'	18.5' LT	713.13	HIGH POINT	93RD ST	15	338	210	-
	62+11 'EB'	18.5' LT	713.13	HIGH POINT	64+78 'EB'	18.5' LT	709.36	152	93RD ST	12	267	160	-
	64+78 'EB'	18.5' LT	709.36	152	65+00 'EB'	18.5' LT	709.24	151	93RD ST	1	23	14	-
	65+00 'EB'	18.5' LT	709.31	151	66+55 'EB'	21.5' LT	711.69	161	93RD ST	7	156	95	-
	66+55 'EB'	21.5' LT	711.69	161	67+80 'EB'	21.5' LT	715.36	171	93RD ST	6	125	76	-
	67+80 'EB'	21.5' LT	715.36	171	69+60 'EB'	18.5' LT	716.60	HIGH POINT	93RD ST	8	180	110	-
	69+60 'EB'	18.5' LT	716.60	HIGH POINT	71+25 'EB'	18.5' LT	715.60	201	93RD ST	7	165	100	-
	71+25 'EB'	18.5' LT	715.60	201	72+54 'EB'	18.5' LT	716.29	HIGH POINT	93RD ST	6	129	79	-
	72+54 'EB'	18.5' LT	716.29	HIGH POINT	74+29 'EB'	18.5' LT	712.87	211	93RD ST	8	175	110	-
	74+29 'EB'	18.5' LT	712.87	211	75+80 'EB'	18.5' LT	708.06	221	93RD ST	7	152	93	-
	75+80 'EB'	18.5' LT	708.06	221	77+82 'EB'	18.5' LT	703.23	300	93RD ST	9	201	120	-
	77+82 'EB'	18.5' LT	703.23	300	78+46 'EB'	18.5' LT	702.91	310	93RD ST	3	65	40	-
	78+46 'EB'	18.5' LT	702.91	310	80+29 'EB'	18.5' LT	703.66	HIGH POINT	93RD ST	8	183	110	-
	80+29 'EB'	18.5' LT	703.66	HIGH POINT	81+80 'EB'	18.5' LT	703.01	412	93RD ST	7	151	92	-
	81+80 'EB'	18.5' LT	703.01	412	82+00 'EB'	18.5' LT	702.91		93RD ST	1	20	12	-
	82+00 'EB'	18.5' LT	701.08		83+66 'EB'	21.2' LT	699.58	421	93RD ST	9	166	83	-
	83+66 'EB'	21.2' LT	699.58	421	84+67 'EB'	35.2' LT	698.36	441	93RD ST	6	112	56	-
	84+67 'EB'	35.2' LT	698.36	441	100+26 'NB'	24.1' LT	697.60	452	51ST AVE	3	45	23	-
	100+26 'NB'	24.1' LT	697.60	452	101+33 'NB'	18.1' LT	698.54	END CAP REQ'D	51ST AVE	6	111	56	-
									PAGE 1/3 - SUBTOTALS	175	3,657	2,136	2

*** ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLANS**

CONTINUED ON NEXT PAGE

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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PIPE UNDERDRAIN (CONTINUED)

CATEGORY	BEGIN STATION	BEGIN OFFSET	BEGIN ELEV.	BEGIN STR. NO.	END STATION	END OFFSET	END ELEV.	END STR. NO.	LOCATION	* 310.0110 BASE AGGREGATE OPEN-GRADED TON	612.0106 PIPE UNDERDRAIN 6-INCH LF	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY	SPV.0060.01 SPECIAL (01. CORED HOLES 6-INCH) EACH
0010	49+87 'EB'	23.1' RT	699.35	END CAP REQ'D	50+60 'EB'	23.1' RT	699.00	ADJ-2	93RD ST	3	73	45	1
	50+60 'EB'	23.1' RT	699.31	ADJ-2	52+00 'EB'	23.9' RT	700.22	END CAP REQ'D	93RD ST	6	140	86	1
	52+00 'EB'	23.9' RT	699.09	END CAP REQ'D	52+19 'EB'	23.5' RT	699.00	12	93RD ST	1	18	9	-
	52+19 'EB'	23.5' RT	699.12	12	53+85 'EB'	20.0' RT	701.17	100	93RD ST	9	166	83	-
	53+85 'EB'	20.0' RT	701.17	100	56+13 'EB'	18.5' RT	703.11	112	93RD ST	13	229	115	-
	56+13 'EB'	18.5' RT	703.11	112	57+00 'EB'	18.5' RT	704.47	END CAP REQ'D	93RD ST	5	87	44	-
	57+00 'EB'	18.5' RT	706.80	END CAP REQ'D	57+32 'EB'	18.5' RT	706.64	122	93RD ST	2	32	16	-
	57+32 'EB'	18.5' RT	706.85	122	58+74 'EB'	18.5' RT	709.12	132	93RD ST	6	143	72	-
	58+74 'EB'	18.5' RT	709.12	132	62+11 'EB'	18.5' RT	713.13	HIGH POINT	93RD ST	15	337	170	-
	62+11 'EB'	18.5' RT	713.13	HIGH POINT	64+78 'EB'	18.5' RT	709.36	155	93RD ST	12	267	130	-
	64+78 'EB'	18.5' RT	709.36	155	65+00 'EB'	18.5' RT	709.24	153	93RD ST	1	23	12	-
	65+00 'EB'	18.5' RT	709.31	153	66+56 'EB'	21.5' RT	711.69	163	93RD ST	7	156	78	-
	66+56 'EB'	21.5' RT	711.69	163	67+82 'EB'	21.5' RT	715.39	173	93RD ST	6	126	63	-
	67+82 'EB'	21.5' RT	715.39	173	69+60 'EB'	18.5' RT	716.60	HIGH POINT	93RD ST	8	179	90	-
	69+60 'EB'	18.5' RT	716.60	HIGH POINT	71+26 'EB'	18.5' RT	715.60	204	93RD ST	7	165	83	-
	71+26 'EB'	18.5' RT	715.60	204	72+54 'EB'	18.5' RT	716.29	HIGH POINT	93RD ST	6	128	64	-
	72+54 'EB'	18.5' RT	716.29	HIGH POINT	74+29 'EB'	18.5' RT	712.87	212	93RD ST	8	175	88	-
	74+29 'EB'	18.5' RT	712.87	212	75+81 'EB'	18.5' RT	708.06	220	93RD ST	7	152	76	-
	75+81 'EB'	18.5' RT	708.06	220	78+10 'EB'	18.5' RT	703.02	312	93RD ST	10	230	120	-
	78+10 'EB'	18.5' RT	703.02	312	78+48 'EB'	18.5' RT	702.83	311	93RD ST	2	37	19	-
	78+48 'EB'	18.5' RT	702.91	311	80+29 'EB'	18.5' RT	703.66	HIGH POINT	93RD ST	8	182	91	-
	80+29 'EB'	18.5' RT	703.66	HIGH POINT	82+00 'EB'	18.5' RT	702.91		93RD ST	8	171	86	-
	82+00 'EB'	18.5' RT	701.08		83+59 'EB'	18.5' RT	699.70	422	93RD ST	9	159	97	-
	83+59 'EB'	18.5' RT	699.70	422	84+31 'EB'	13.5' RT	698.87	430	93RD ST	4	73	45	-
	84+31 'EB'	13.5' RT	698.87	430	84+67 'EB'	15.6' RT	698.50	440	93RD ST	2	31	19	-
	84+67 'EB'	15.6' RT	698.36	440	95+02 'SB'	16.0' LT	698.58	455	COOPER RD	2	44	27	-
	95+02 'SB'	16.0' LT	698.58	455	94+61 'SB'	13.9' LT	699.28	456	COOPER RD	2	41	25	-
	94+61 'SB'	13.9' LT	699.28	456	93+85 'NB'	23.5' LT	701.09	END CAP REQ'D	COOPER RD	4	74	45	-
									PAGE 2/3 - SUBTOTALS	173	3,638	1,898	2

***** ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLANS

CONTINUED ON NEXT PAGE

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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PIPE UNDERDRAIN (CONTINUED)

CATEGORY	BEGIN STATION	BEGIN OFFSET	BEGIN ELEV.	BEGIN STR. NO.	END STATION	END OFFSET	END ELEV.	END STR. NO.	LOCATION	* 310.0110 BASE AGGREGATE OPEN-GRADED TON	612.0106 PIPE UNDERDRAIN 6-INCH LF	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY	SPV.0060.01 SPECIAL (01. CORED HOLES 6-INCH) EACH
0010	93+85 'NB'	23.5' RT	701.10	END CAP REQ'D	94+60 'SB'	21.3' RT	699.01	454	COOPER RD	4	79	48	-
	94+60 'SB'	21.3' RT	699.01	454	94+92 'SB'	30.9' RT	698.40	453	COOPER RD	2	34	21	-
	94+92 'SB'	30.9' RT	698.40	453	90+96 'EB'	18.5' RT	697.43	461	93RD ST	8	133	81	-
	90+96 'EB'	18.5' RT	697.43	461	91+60 'EB'	21.5' RT	697.76	END CAP REQ'D	93RD ST	3	61	37	-
	101+32 'NB'	17.5' RT	698.52	END CAP REQ'D	100+24 'NB'	14.9' RT	697.62	451	51ST AVE	6	107	65	-
	100+24 'NB'	14.9' RT	697.62	451	90+02 'EB'	39.6' LT	698.19	HIGH POINT	51ST AVE	3	51	31	-
	90+02 'EB'	39.6' LT	698.19	HIGH POINT	90+98 'EB'	22.3' LT	697.38	462	93RD ST	6	102	62	-
	90+98 'EB'	22.3' LT	697.38	462	91+60 'EB'	15.3' LT	697.65	END CAP REQ'D	93RD ST	4	63	39	-
									PAGE 3/3 - SUBTOTALS	36	630	384	0
									TOTAL 0010	384	7,925	4,418	4

*** ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLANS**

RIPRAP AND GEOTEXTILE FABRIC

CATEGORY	STATION	TO	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY	REMARKS
0010	51+35 'EB'	-	51+50 'EB'	93RD ST, RT	2	10	12-INCH ENDWALL
	53+64 'EB'	-	53+75 'EB'	93RD ST, RT	7	21	30-INCH ENDWALL
	54+13 'EB'	-	54+26 'EB'	93RD ST, RT	4	15	18-INCH ENDWALL
	75+79 'EB'	-	75+84 'EB'	93RD ST, RT	3	13	18-INCH ENDWALL
	76+45 'EB'	-	76+60 'EB'	93RD ST, RT	2	10	12-INCH ENDWALL
	77+70 'EB'	-	77+80 'EB'	93RD ST, RT	2	15	19X30-INCH ENDWALL
	77+80 'EB'	-	78+00 'EB'	93RD ST, LT	5	18	19X30-INCH ENDWALL
				TOTAL 0010	25	102	

SIGNING REMOVAL

CATEGORY	STATION	OFFSET	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
0010	54+31 'EB'	12.5' RT	SPEED LIMIT 35 MPH	1	1
	5+47 'S'	17.0' LT	STOP	1	1
	80+97 'EB'	4.4' RT	STOP AHEAD	1	1
	82+52 'EB'	30.7' LT	SPEED LIMIT 35 MPH	1	1
	11+50 'RA'	2.1' RT	STOP	1	1
	10+25 'RA'	1.8' RT	STOP	1	1
	90+09 'EB'	46.9' LT	STOP	1	1
	91+51 'EB'	0.1' RT	SPEED LIMIT 35 MPH	1	1
	100+25 'NB'	34.7' LT	STOP	1	1
			TOTAL 0010	9	9

EROSION CONTROL ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0300 SEEDING BORROW PIT LB	630.0500 SEED WATER MGAL
0010	48+37 'EB'	-	58+50 'EB'	93RD ST	3,890	400	400	3,890	10	2	10	2	35	10	3	180	-	-	88
	58+50 'EB'	-	67+25 'EB'	93RD ST	2,260	850	850	2,260	10	2	4	4	-	6	1	100	-	-	51
	67+25 'EB'	-	84+71 'EB'	93RD ST	4,430	1,390	1,390	4,430	24	7	13	4	-	8	3	200	-	-	99
	90+00 'EB'	-	93+40 'EB'	93RD ST	1,280	-	-	1,280	3	1	-	2	-	-	1	58	-	-	29
	93+50 'NB'	-	95+00 'NB'	COOPER RD	380	-	-	380	4	-	4	-	-	-	1	17	-	-	9
	100+00 'NB'	-	101+72 'NB'	COOPER RD	370	-	-	370	2	-	-	2	-	-	1	17	-	-	8
				STORMWATER POND 1	3,720	620	620	3,720	-	-	-	-	-	6	2	170	-	-	84
				STORMWATER POND 2	1,620	380	380	1,620	-	-	-	-	-	-	1	73	-	-	36
				TOPSOIL STOCKPILE	-	500	500	-	-	-	-	-	-	-	-	-	122	-	-
				WASTE AREA	-	1,420	1,420	-	-	-	-	-	-	-	-	-	81	80	-
				UNDISTRIBUTED	1,800	410	410	1,800	-	-	-	-	4	3	-	200	51	20	-
				TOTAL 0010	19,750	5,970	5,970	19,750	53	12	31	14	39	33	13	1,015	254	100	404

STORMWATER POND ITEMS

CATEGORY	LOCATION	522.1012 * APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1015 * APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	606.0100 RIPRAP LIGHT CY	608.0312 * STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 * STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	640.1303.S POND LINER CLAY CY	645.0130 GEOTEXTILE TYPE R SY	SPV.0060.02 SPECIAL (02. BASIN RISER 48-INCH) EACH	SPV.0060.06 SPECIAL (06. CLAY COLLAR) EACH	REMARKS
0010	STORMWATER POND 1	-	1	13	-	72	1,330	54	1	1	SEE PROPOSED STORMWATER POND 1 DETAIL FOR MORE INFORMATION
	STORMWATER POND 2	1	-	12	38	-	490	51	1	1	SEE PROPOSED STORMWATER POND 2 DETAIL FOR MORE INFORMATION
	TOTAL 0010	1	1	25	38	72	1,820	105	2	2	

NOTES:

- STORM PIPE AND STRUCTURE LOOCATIONS PROVIDED IN STORMWATER POND DETAILS

* ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLANS

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	APPRX. SERVICE PERIOD DAYS	643.0300 TRAFFIC CONTROL DRUMS QTY	643.0300 DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III QTY	643.0420 DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A QTY	643.0705 DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C QTY	643.0715 DAY	643.0900 TRAFFIC CONTROL SIGNS QTY	643.0900 DAY	643.1050 TRAFFIC CONTROL SIGNS PCMS QTY	643.1050 DAY	REMARKS
0010	LOCAL ROADS	173	-	-	-	-	-	-	-	-	82	14,186	-	-	DETOUR ROUTE
	LOCAL ROADS	129	-	-	8	1,032	12	1,548	-	-	14	1,806	-	-	ADVANCED WARNING - STAGE 1
	LOCAL ROADS	38	-	-	14	532	18	684	-	-	19	722	-	-	ADVANCED WARNING - STAGE 2
	SDD 15D46	14	190	2,660	4	56	-	-	8	112	27	378	-	-	ONE-WAY SIGNING NORTHBOUND - STAGE 3
	SDD 15D46	14	95	1,330	2	28	-	-	8	112	25	350	-	-	ONE-WAY SIGNING SOUTHBOUND - STAGE 3
	LOCAL ROADS	7	-	-	-	-	-	-	-	-	-	-	2	14	PRIOR TO ROADWAY CLOSURE
	UNDISTRIBUTED	-	-	2,400	-	170	-	340	-	-	-	17	-	-	
	TOTAL 0010			6,390		1,818		2,572		224		17,459		14	

PERMANENT SIGNING

CATEGORY	STATION	LOCATION	SIGN NO.	SIGN CODE	W X H (IN X IN)	DESCRIPTION	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH
0010	54+31 'EB'	RT	1-1	R2-1	24X30	SPEED LIMIT 35	1	-	5.00	-	-
	58+25 'EB'	LT	2-1	R1-1	30X30	STOP	1	-	5.18	-	-
	58+73 'EB'	LT	M-1	-	-	60TH AVENUE/93RD ST	-	-	-	1	1
	67+04 'EB'	LT	2-2	R1-1	30X30	STOP	1	-	5.18	-	-
	66+52 'EB'	CL	2-3	R4-7	24X30	KEEP RIGHT	1	-	5.00	-	-
	67+73 'EB'	CL	2-4	R4-7	24X30	KEEP RIGHT	1	-	5.00	-	-
	67+84 'EB'	CL	2-5	R4-7	24X30	KEEP RIGHT	1	-	5.00	-	-
	68+04 'EB'	CL	2-6	R4-7	24X30	KEEP RIGHT	1	-	5.00	-	-
	79+64 'EB'	LT	M-2	-	-	SUBCONTINENTAL DIVIDE	-	-	-	1	1
	79+64 'EB'	RT	M-3	-	-	SUBCONTINENTAL DIVIDE	-	-	-	1	1
	83+55 'EB'	LT	4-1	R2-1	24X30	SPEED LIMIT 35	1	-	5.00	-	-
	100+14 'NB'	LT	4-2	R1-2	36X31	YIELD	-	1	3.88	-	-
	100+14 'NB'	LT	4-3	R6-5P	30X30	TRAFFIC CIRCLE	-	-	6.25	-	-
	84+63 'WB'	RT	4-4	R1-2	36X31	YIELD	-	1	3.88	-	-
	84+63 'WB'	RT	4-5	R6-5P	30X30	TRAFFIC CIRCLE	-	-	6.25	-	-
	93+85 'NB'	LT	5-1	R2-1	24X30	SPEED LIMIT 25	1	-	5.00	-	-
	90+09 'EB'	LT	5-2	R1-2	36X31	YIELD	-	1	3.88	-	-
	90+09 'EB'	LT	5-3	R6-5P	30X30	TRAFFIC CIRCLE	-	-	6.25	-	-
	94+93 'SB'	RT	5-4	R1-2	36X31	YIELD	-	1	3.88	-	-
	94+93 'SB'	RT	5-5	R6-5P	30X30	TRAFFIC CIRCLE	-	-	6.25	-	-
	91+35 'EB'	RT	5-6	R2-1	24X30	SPEED LIMIT 35	1	-	5.00	-	-
						TOTAL 0010	10	4	90.88	3	3

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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SAWING ITEMS

CATEGORY	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
0010	49+87 'EB'	93RD ST	90	5	BEGIN PROJECT LIMITS
	55+95 'EB'	93RD ST, RT	-	12	DRIVEWAY
	5+83 'S'	60TH AVE	24	-	60TH AVE LIMIT
	60+07 'EB'	93RD ST, LT	-	10	DRIVEWAY
	62+13 'EB'	93RD ST, LT	12	-	DRIVEWAY
	66+33 'EB'	93RD ST, LT	18	-	DRIVEWAY
	10+51 'IP'	INGRAM PARK	25	-	INGRAM PARK LIMIT
	69+92 'EB'	93RD ST, LT	-	10	DRIVEWAY
	72+71 'EB'	93RD ST, LT	-	15	DRIVEWAY
	76+12 'EB'	93RD ST, LT	-	21	DRIVEWAY
	77+51 'EB'	93RD ST, LT	13	-	DRIVEWAY
	79+99 'EB'	93RD ST, LT	12	-	DRIVEWAY
	81+27 'EB'	93RD ST, LT	21	-	DRIVEWAY
	93+03 'EB'	93RD ST, LT	14	-	DRIVEWAY
	91+31 'EB'	93RD ST, LT	-	22	DRIVEWAY
	93+30 'EB'	93RD ST	23	-	END PROJECT LIMITS
	93+85 'NB'	COOPER RD	-	49	BEGIN CONSTRUCTION LIMITS
	100+61 'NB'	COOPER RD, RT	-	5	SIDEWALK
	100+82 'NB'	COOPER RD, LT	11	-	DRIVEWAY
	101+18 'NB'	COOPER RD, LT	10	-	DRIVEWAY
	101+62 'NB'	COOPER RD	26	-	END CONSTRUCTION LIMITS
		TOTAL 0010	299	149	

PERMANENT PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH (SKIP WHITE) LF	646.1020 MARKING LINE EPOXY 4-INCH (SOLID WHITE) LF	646.1020 MARKING LINE EPOXY 4-INCH (SOLID YELLOW) LF	646.6120 MARKING STOP LINE EPOXY 18-INCH (WHITE) LF	646.6320 MARKING DOTTED EXTENSION EPOXY 18-INCH (SKIP WHITE) LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH (YELLOW) LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) LF	646.8120 MARKING CURB EPOXY (YELLOW) LF	646.8220 MARKING ISLAND NOSE EPOXY (YELLOW) EACH
0010	49+33 'EB'	-	58+50 'EB'	93RD ST	-	1616	1834	-	-	-	-	-	-
	58+50 'EB'	-	67+25 'EB'	93RD ST	-	1669	1816	-	-	14	-	20	2
	67+25 'EB'	-	84+71 'EB'	93RD ST	30	3205	3681	-	12	30	50	30	3
	90+00 'EB'	-	93+40 'EB'	93RD ST	22	470	822	-	12	12	50	10	1
	93+50 'NB'	-	95+00 'NB'	COOPER RD	14	130	444	-	12	22	50	10	1
	100+00 'NB'	-	101+72 'NB'	COOPER RD	22	147	478	-	12	14	50	10	1
	5+17 'S'	-	5+83 'S'	60TH AVE	-	-	89	18	-	-	78	-	-
	10+20 'IP'	-	10+51 'IP'	INGRAM PARK	-	-	-	12	-	-	84	-	-
				SUBTOTALS	88	7237	9164	30	48	92	362	80	8
				TOTAL 0010		16,489		30	48	92	362	80	8

CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9500.01 CONSTRUCTION STAKING SIDEWALK (PROJECT) (01. 3830-01-70) EACH	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 3830-01-70) EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	49+40 'EB'	-	93+30 'EB'	93RD ST	65	4,065	171	89	2	3,894	10	1	1	4,065
	93+85 'NB'	-	101+62 'NB'	COOPER RD	6	521	27	-	-	494	4	-	-	521
	10+00 'RA'	-	11+85 'RA'	ROUNDABOUT	-	185	-	-	-	185	-	-	-	185
				TOTAL 0010	71	4,771	198	89	2	4,573	14	1	1	4,771

TEMPORARY WATER DIVERSION

CATEGORY	STATION	LOCATION	SPV.0060.04 SPECIAL (04. TEMPORARY WATER DIVERSION - STATION 77+84) EACH
0010	77+84	93RD ST	1
		TOTAL 0010	1

SECTION CORNER MONUMENTS

CATEGORY	STATION	LOCATION	SPV.0060.03 SPECIAL (03. SECTION CORNER MONUMENTS) EACH
0010	71+90	93RD ST	1
		TOTAL 0010	1

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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SANITARY SEWER STRUCTURES

CATEGORY	STRUCTURE	STATION	OFFSET	LOCATION	SPV.0060.51 SPECIAL (51. CONNECT TO EXISTING SANITARY MANHOLE) EACH	SPV.0060.52 SPECIAL (52. ADJUST SANITARY MANHOLE) EACH	SPV.0060.53 SPECIAL (53. SANITARY MANHOLE CASTING) EACH	SPV.0200.50 SPECIAL (50. SANITARY MANHOLE 4-FT DIAMETER) VF	SPV.0200.51 SPECIAL (51. SANITARY MANHOLE OUTSIDE DROP) VF
0010	1	249+97.5	0.5' RT	93 RD ST	1	1	1	-	-
	2	253+95.5	0.0'	93 RD ST	-	-	-	14.9	-
	3	257+94.5	0.0'	93 RD ST	-	-	-	18.6	-
	4	261+03.1	0.0'	93 RD ST	-	-	-	22.3	5.5
	5	263+50.0	0.1' RT	93 RD ST	-	-	-	14.3	-
	6	265+97.5	0.0'	93 RD ST	-	-	-	11.8	-
	7	269+17.6	0.0'	93 RD ST	-	-	-	11.8	-
	8	272+97.5	0.0'	93 RD ST	-	-	-	13.8	-
	9	276+77.5	0.0'	93 RD ST	-	-	-	12.4	-
	10	280+54.8	0.1' LT	93 RD ST	-	-	-	12.6	-
	11	282+87.9	1.6' RT	93 RD ST	1	1	1	-	-
		286+89.8		93 RD ST	-	1	1	-	-
		396+49.6		COOPER RD	-	2	2	-	-
				TOTAL 0010	2	5	5	132.5	5.5

SANITARY SEWER PIPE

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0060.50 SPECIAL (50. 4-INCH SANITARY CLEANOUT) EACH	SPV.0060.54 SPECIAL (54. SANITARY SEWER TRACER WIRE ACCESS BOX) EACH	SPV.0090.50 SPECIAL (50. SANITARY LATERAL PIPE PVC, 4-INCH) LF	SPV.0090.51 SPECIAL (51. SANITARY LATERAL PIPE PVC, 6-INCH) LF	SPV.0090.52 SPECIAL (52. SANITARY SEWER PIPE PVC, 8-INCH) LF	SPV.0090.53 SPECIAL (53. SANITARY SEWER PIPE PVC, 12-INCH) LF	SPV.0090.61 SPECIAL (61. TELEVISING SEWERS) LF	SPV.0200.52 SPECIAL (52. 4-INCH SANITARY RISER) VF
0010	249+97.5	-	257+94.5	93RD ST	5	5	272	-	-	799	1,071	31.9
	257+94.5	-	265+97.5	93RD ST	2	4	126	42	495	346	1,009	18.6
	269+17.6	-	282+87.9	93RD ST	4	7	295	-	1,372	-	1,667	12.1
				TOTAL 0010	11	16	693	42	1,867	1,145	3,747	62.6

CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0060.69 SPECIAL (69. CONSTRUCTION STAKING WATER MAIN) EACH	SPV.0060.70 SPECIAL (70. CONSTRUCTION STAKING SANITARY SEWER) EACH	REMARKS
0010	249+50.7	-	287+68.0	93RD ST	1	1	INCLUDES COOPER RD WATER MAIN
				TOTAL 0010	1	1	

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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WATER MAIN PIPE

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0060.67 SPECIAL (67. CONNECT TO EXISTING WATER MAIN) EACH	SPV.0090.54 SPECIAL (54. WATER MAIN PIPE PVC, 6-INCH) LF	SPV.0090.55 SPECIAL (55. WATER MAIN PIPE PVC, 8-INCH) LF	SPV.0090.56 SPECIAL (56. WATER MAIN PIPE PVC, 12-INCH) LF	SPV.0090.57 SPECIAL (57. WATER MAIN PIPE PVC, 16-INCH) LF	SPV.0165.50 SPECIAL (50. WATER MAIN INSULATION) SF	REMARKS
0010	250+08.9	-	258+40.0	93RD ST	1	35	-	-	894	33	
	258+40.0	-	267+37.4	93RD ST	1	33	-	71	897	-	INCLUDEDS QTYS ON 60TH AVE
	267+37.4	-	275+25.9	93RD ST	-	48	39	42	789	-	INCLUDES QTYS ON INGRAM PARK DR
	275+25.9	-	287+68.0	93RD ST	1	33	-	-	1,250	100	
	393+47.5	-	397+43.6	COOPER RD	2	48	-	153	174	27	
				TOTAL 0010	5	197	39	266	4,004	160	

WATER MAIN REMOVAL

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0060.64 SPECIAL (64. REMOVE AND SALVAGE EXISTING HYDRANT) EACH	SPV.0060.65 SPECIAL (65. ABANDON EXISTING WATER VALVE) EACH	SPV.0060.66 SPECIAL (66. BULKHEAD EXISTING WATER MAIN) EACH	SPV.0090.59 SPECIAL (59. ABANDON EXISTING WATER MAIN W/ FLOWABLE FILL) LF	SPV.0090.60 SPECIAL (60. REMOVE EXISTING WATER MAIN) LF	REMARKS
0010	250+08.9	-	258+40.0	93RD ST	1	3	5	935	47	
	258+40.0	-	267+37.4	93RD ST	2	3	1	920	8	INCLUDEDS QTYS ON 60TH AVE
	267+37.4	-	275+25.9	93RD ST	2	3	2	820	8	INCLUDES QTYS ON INGRAM PARK DR
	275+25.9	-	287+68.0	93RD ST	2	5	3	1,250	28	
	393+47.5	-	397+43.6	COOPER RD	2	3	2	350	62	
				TOTAL 0010	9	17	13	4,275	153	

WATER MAIN STRUCTURES

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0060.55 SPECIAL (55. GATE VALVE AND BOX, 8-INCH) EACH	SPV.0060.56 SPECIAL (56. GATE VALVE AND BOX, 6-INCH) EACH	SPV.0060.57 SPECIAL (57. BUTTERFLY VALVE AND BOX, 16-INCH) EACH	SPV.0060.58 SPECIAL (58. BUTTERFLY VALVE AND BOX, 12-INCH) EACH	SPV.0060.59 SPECIAL (59. HYDRANT ASSEMBLY) EACH	SPV.0060.60 SPECIAL (60. AIR RELEASE HYDRANT ASSEMBLY) EACH	REMARKS
0010	250+08.9	-	258+40.0	93RD ST	-	2	3	-	2	-	
	258+40.0	-	267+37.4	93RD ST	-	2	3	1	1	1	INCLUDEDS QTYS ON 60TH AVE
	267+37.4	-	275+25.9	93RD ST	1	3	2	1	3	1	INCLUDES QTYS ON INGRAM PARK DR
	275+25.9	-	287+68.0	93RD ST	-	2	4	-	1	1	
	393+47.5	-	397+43.6	COOPER RD	-	2	2	1	2	-	
				TOTAL 0010	1	11	14	3	9	3	

WATER SERVICE

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0060.61 SPECIAL (61. WATER SERVICE CORP STOP, 1.25-INCH) EACH	SPV.0060.62 SPECIAL (62. CURB STOP AND BOX, 1.25-INCH) EACH	SPV.0060.63 SPECIAL (63. WATER MAIN TRACER WIRE ACCESS BOX) EACH	SPV.0060.68 SPECIAL (68. CONNECT TO EXISTING WATER SERVICE) EACH	SPV.0090.58 SPECIAL (58. WATER SERVICE PIPE HDPE, 1.25-INCH) LF	REMARKS
0010	250+08.9	-	258+40.0	93RD ST	5	5	5	-	260	
	258+40.0	-	267+37.4	93RD ST	4	4	4	1	138	INCLUDEDS QTYS ON 60TH AVE
	267+37.4	-	275+25.9	93RD ST	3	3	3	1	102	INCLUDES QTYS ON INGRAM PARK DR
	275+25.9	-	287+68.0	93RD ST	6	6	6	5	229	
	393+47.5	-	397+43.6	COOPER RD	1	1	1	3	33	
				TOTAL 0010	19	19	19	10	762	

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CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE (P.L.)
LOT, TIE & OTHER MINOR LINES
EXISTING CENTERLINE
CORPORATE LIMITS
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
BUILDING (B) TO BE REMOVED (B)
BRIDGE
CULVERT

SECTION CORNER SYMBOL (18 / 23 24 / 26 25 / 9)
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
NON-PERMITTED SIGN
PERMITTED SIGN (#1-25)
ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER (25)
PARALLEL OFFSETS

R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND SURVEY MONUMENT (SEE FOUND MONUMENT TABLE) IP

CONVENTIONAL UTILITY SYMBOLS

UTILITY NUMBER (40)

WATER (W)
GAS (G)
TELEPHONE (T)
OVERHEAD TRANSMISSION LINES (OH)
ELECTRIC (E)
CABLE TELEVISION (TV)
FIBER OPTIC (FO)
SANITARY SEWER (SAN)
STORM SEWER (SS)
COMBINED SEWER (SSS)
ELECTRIC TOWER
TRANSMISSION STRUCTURES

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	PROPERTY LINE	PL
ACRES	AC	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
CERTIFIED SURVEY MAP	CSM	RIGHT	RT
CONCRETE	CONC	RIGHT OF WAY	R/W
COUNTY TRUNK HIGHWAY	CTH	SECTION	SEC
CORNER	COR	SEPTIC VENT	SEPV
DOCUMENT NUMBER	DOC	SQUARE FEET	SF
EASEMENT	EASE	STATE TRUNK HIGHWAY	STH
EXISTING	EX	STATION	STA
GAS VALVE	GV	TELEPHONE PEDESTAL	TP
GRID NORTH	GN	TRANSPORTATION PROJECT PLAT	TPP
IDENTIFICATION	ID	UNITED STATES HIGHWAY	USH
INTERSTATE HIGHWAY	IH	VOLUME	V
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		
POINT OF INTERSECTION	PI		

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
DELTA ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

R/W PROJECT NUMBER 3830-01-00	SHEET NUMBER	TOTAL SHEETS
FEDERAL PROJECT NUMBER	4.01	7

PLAT OF RIGHT OF WAY REQUIRED FOR

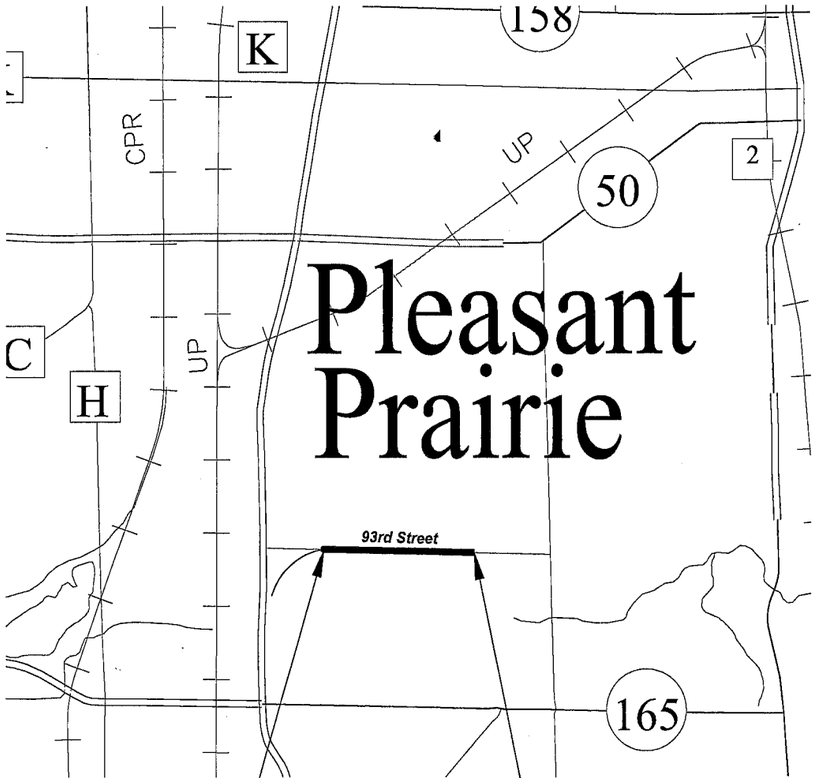
93RD STREET
63RD AVENUE TO COOPER ROAD

LOCAL STREET	KENOSHA COUNTY

CONSTRUCTION PROJECT NUMBER 3830-01-70

EXHIBIT B





T-1-N

R-22-E

LAYOUT

SCALE 0 .5 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.01 MILES

BEGIN RELOCATION ORDER
PROJECT 3830-01-00
STA. 100+00.00
Y = 116924..468
X = 612840.536
LOCATED AT THE NORTH QUARTER CORNER OF SECTION 22, T 01 N, R 22 E.

END RELOCATION ORDER
PROJECT 3830-01-00
STA. 153+07.61
Y = 116810.034
X = 618146.870
LOCATED AT THE NORTH QUARTER CORNER OF SECTION 23, T 01 N, R 22 E.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), KENOSHA COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY AND PERMANENT EASEMENT MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, CENTERLINE OF EXISTING PAVEMENTS AND/OR EXISTING OCCUPATIONAL LINES.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

PROPERTY LINES SHOWN ON THIS PLAT FOR PROPERTIES BEING IMPACTED ARE DRAWN FROM DATA DERIVED FROM FILED/RECORDED MAPS AND DOCUMENTS OF PUBLIC RECORD. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE VILLAGE OF PLEASANT PRAIRIE COMMUNITY DEVELOPMENT DEPARTMENT.

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON THE DETAIL SHEETS.

REVISION DATE
1/20/2026
4/13/2026
5/26/2026

APPROVED FOR
VILLAGE OF PLEASANT PRAIRIE

10/13/25 (Date) — VILLAGE OF PLEASANT PRAIRIE

PLAT PREPARED BY

AYRES

THIS SURVEY IS PREPARED AT THE REQUEST OF THE VILLAGE OF PLEASANT PRAIRIE.

THE FIELD SURVEY WAS PERFORMED IN JULY 2024.

THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

WISCONSIN
JAMEY L. REID
S-2559
PORTAGE, WI
LAND SURVEYOR

(SIGNATURE) Jamey L. Reid
DATE: 10/03/2025
(PRINTED NAME) JAMEY L. REID
(REGISTRATION NUMBER) S-2559

FILE NAME : I:\76\WK\47-0445.00 93RD ST DOT TOPO - ID 3830-01-0071\CADD\C3D\SHEETSPLAN\38300100RWPL.DWG
PLOT DATE : 10/3/2025 10:35 AM
PLOT BY : GOLAT, JACOB
PLOT NAME :

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSED ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE VILLAGE.

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED (SF) NEW	EXISTING	TOTAL	PLE	TLE
2	4.04	JOSEPH W. YOUNG DECLARATON OF TRUST	FEE & TLE	6258	7971	14229	------	2420
3	4.04	ALLYN LEROY COON JR. AND KATHLEEN COON	FEE & TLE	4365	7230	11595	------	2194
4	4.04	ANTHONY L. EWING AND DENISE B. EWING	TLE	------	------	------	------	1539
5	4.04	PHILLIP W. ROAMER AND TRACEY J. ROEMER	FEE & TLE	3804	7385	11189	------	2238
6	4.04	SCOTT S. DANKERT AND BETH E. DANKERT	FEE & TLE	3148	6110	9258	------	1943
7	4.04	76TH STREET KENOSHA LLC	FEE	50997	------	50997	------	------
8	4.05	JOHN J. VOGEL AND AMY L. FULMER-VOGEL	FEE & TLE	693	8024	8717	------	1574
9	4.05	MICHAEL R. JAKE	TLE	------	------	------	------	1454
10	4.05	CHRISTOPHER S. MIKS	TLE	------	------	------	------	3364
11	4.05	VILLAGE OF PLEASANT PRAIRIE	TLE	------	------	------	------	3556
12	4.05	EUGENE J. WRIGHT	PLE & TLE	------	------	------	625	2180
13	4.06	DOUGLAS W. BRANDT AND ROBIN M. BRANDT REVOCABLE TRUST DATED FEBRUARY 24, 2012	TLE	------	------	------	------	3318
14	4.06	THOMAS GRIFFEY AND ANDREA L. GRIFFEY	TLE	------	------	------	------	1604
15	4.06	BRIAN CROSS AND MELISSA CROSS	PLE & TLE	------	------	------	750	1409
16	4.06	MARTIN E. ROELL, III AND SUZANNE E. ROELL	PLE & TLE	------	------	------	149	2020
17	4.06	EVAN P. JOHNSON AND KELLY M. JOHNSON	TLE	------	------	------	------	1813
18	4.06	ERIC DEROHAN AND CASSANDRA DEROHAN	FEE & TLE	286	9337	9623	------	3104
19	4.06	ANDREW CISKOWSKI	TLE	------	------	------	------	979
20	4.06	THOMAS P. GAGLIARDI, VENDOR AND SALVADOR GUZMAN HERNANDEZ AND NORMA E. ALVAREZ AS PURCHASER	TLE	------	------	------	------	4082
21	4.06	ARBOR ESTATES GROUP LLC	FEE & PLE	25907	------	25907	300	------
22	4.07	DALE C. WELLMAN	FEE & TLE	933	15080	16013	------	3964
23	4.07	ARBOR ESTATES GROUP LLC	TLE	------	------	------	------	712
100	4.04, 4.05, 4.06	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS					
101	4.04	AT&T	RELEASE OF RIGHTS					
102	4.05	AMERICAN TRANSMISSION COMPANY	RELEASE OF RIGHTS					

4

4

REVISION DATE 1/20/2026 4/13/2026 5/26/2026

DATE 10/03/2025

GRID FACTOR

SCALE, FEET 0 N/A

HWY: 93RD STREET

COUNTY: KENOSHA

STATE R/W PROJECT NUMBER 3830-01-00

CONSTRUCTION PROJECT NUMBER 3830-01-70

PLAT SHEET 4.02

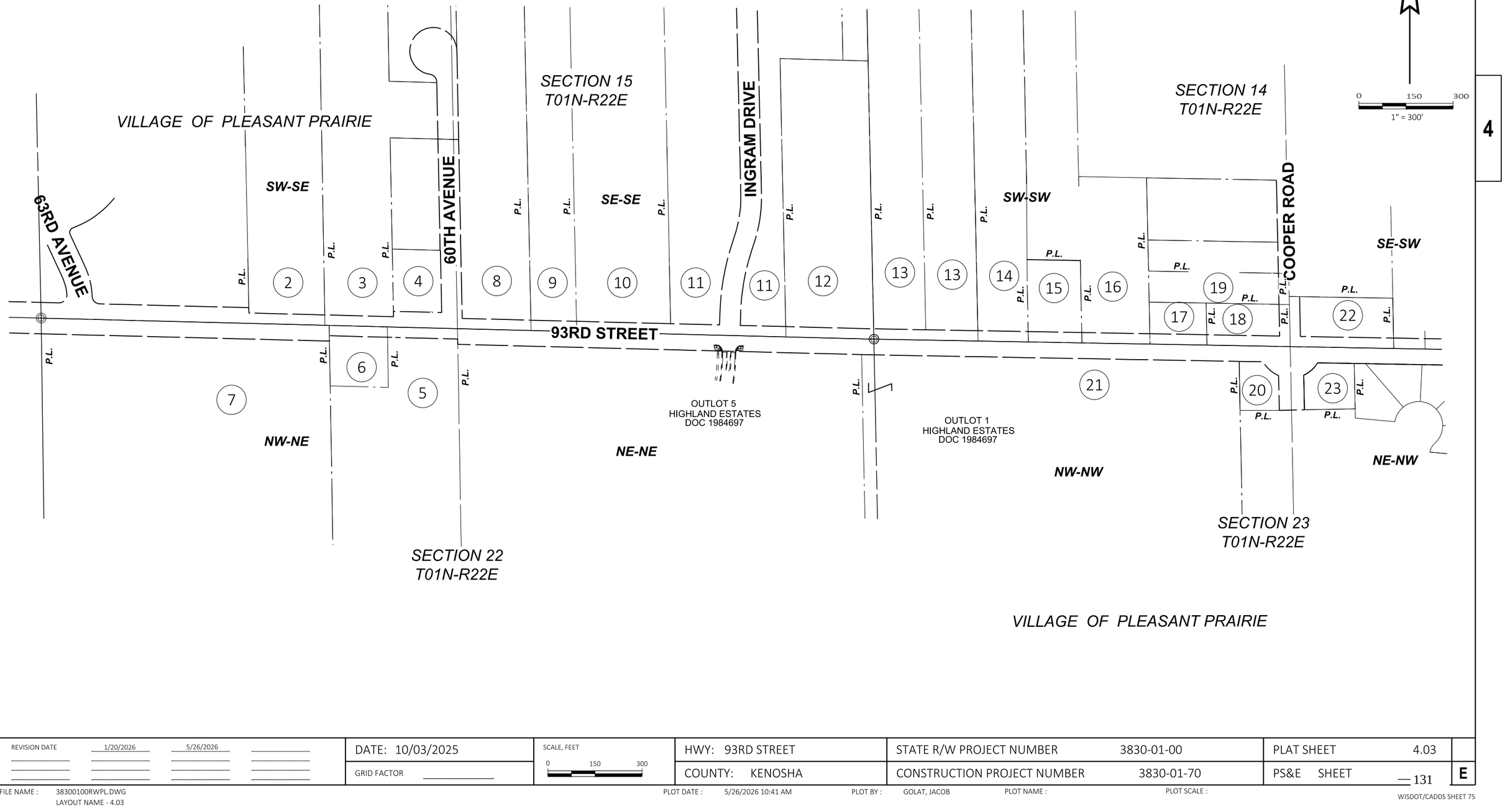
PS&E SHEET 130

E

FILE NAME : 38300100RWPL_4.02.DWG
LAYOUT NAME - RW 1 IN 100 FT

PLOT DATE : 5/26/2026 9:58 AM PLOT BY : GOLAT, JACOB PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 75



REVISION DATE 1/20/2026 5/26/2026	DATE: 10/03/2025	SCALE, FEET 0 150 300	HWY: 93RD STREET	STATE R/W PROJECT NUMBER 3830-01-00	PLAT SHEET 4.03
	GRID FACTOR		COUNTY: KENOSHA	CONSTRUCTION PROJECT NUMBER 3830-01-70	PS&E SHEET 131 E

FILE NAME : 38300100RWPL.DWG
LAYOUT NAME - 4.03

PLOT DATE : 5/26/2026 10:41 AM PLOT BY : GOLAT, JACOB PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
93RD STREET	PROJECT ID# 3737-00-22	50'	1998
93RD STREET	CREEKSIDE CROSSING SUBDIVISION	50'	2005
93RD STREET	CSM 1886	50'	1996
93RD STREET	CSM 2182	50'	2000
60TH AVENUE	CSM 1886	65'	1996

UTILITY INTERESTS REQUIRED		
UTILITY NO.	OWNER	INTEREST REQUIRED
100	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
101	AT&T	RELEASE OF RIGHTS

(100) WE ENERGIES - ELECTRIC
DOC. 1916330 - PAR. 5
DOC. 289574 - PAR. 5
CSM 1886 DOC. 1025520 - PAR. 4

(101) AT&T
NO EASEMENT OF RECORD
CSM 1886 DOC. 1025520 - PAR. 3

R/W OFFSETS STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
100	105+83.09	0.00'	116909.708	613423.440
101	106+63.25	0.00'	116907.679	613503.575
102	106+61.72	33.00' LT	116940.707	613502.875
103	106+60.43	60.71' LT	116968.443	613502.287
106	107+15.45	60.83' LT	116967.172	613557.296
107	111+21.65	50.00' LT	116946.059	613963.089
108	111+22.40	33.00' LT	116929.045	613963.410
109	111+23.86	0.00'	116896.019	613964.033
110	113+27.16	0.00'	116890.872	614167.274
111	113+28.56	33.00' RT	116857.848	614167.832
112	113+29.28	50.00' RT	116840.835	614168.120
113	109+20.32	50.00' RT	116851.187	613759.293
114	109+28.30	238.90' RT	116662.145	613762.488
115	108+08.96	236.29' RT	116667.780	613643.258
116	105+86.32	126.38' RT	116783.285	613423.466
117	105+83.09	50.00' RT	116859.724	613422.175

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
100-101	S88° 32' 58"E	80.16'
101-102	N01° 12' 54"W	33.04'
102-103	N01° 12' 54"W	27.74'
103-106	S88° 40' 35"E	55.02'
106-107	S87° 01' 18"E	406.34'
107-108	S01° 04' 50"E	17.02'
108-109	S01° 04' 50"E	33.03'
109-110	S88° 32' 58"E	203.31'
110-111	S00° 58' 10"E	33.03'
111-112	S00° 58' 10"E	17.02'
112-113	N88° 32' 58"W	408.96'
113-114	S00° 58' 06"E	189.07'
114-115	N87°17'39"W	119.36'
115-116	N62° 16' 38"W	248.29'
116-117	N00° 58' 06"W	76.44'
117-100	N01° 27' 02"E	50.00'

EXISTING IRON POINT TABLE			
POINT NAME	Y COORDS	X COORDS	DESCRIPTION
IP1000	116974.551	612840.472	1 1/4" IRON PIPE
IP1001	116940.708	613503.092	1 1/4" IRON PIPE
IP1002	116863.660	613944.109	1 1/2" IRON PIPE
IP1003	116874.412	612841.089	1 1/4" IRON PIPE

FOUND MONUMENT INFORMATION SHOWN REPRESENTS TYPE AND LOCATION OF EXISTING MONUMENTS WITHOUT OPINION AS TO THEIR VALIDITY AND USE AS A PROPERTY CORNER

GN

0 50 100
1" = 100'

4

4

VILLAGE OF PLEASANT PRAIRIE

SE-SW

80'
63RD AVENUE
EXISTING R/W
P.L.
EXISTING R/W
P.L.
QUARTER LINE

OUTLOT 1
CREEKSIDE CROSSING
SUBDIVISION
DOC 1446154

SW-SE

UNPLATTED LANDS
2
JOSEPH W. YOUNG
DECLARATION OF TRUST
TLE 2420 SF FOR GRADING AND LATERAL INSTALLATION
TLE 2194 SF FOR GRADING AND LATERAL INSTALLATION
UNPLATTED LANDS
3
ALLYN LEROY COON, JR. AND KATHLEEN COON
AT&T RECORDED EASEMENT DOC. 1025520 PARCEL 3
4
ANTHONY L. EWING AND DENISE B. EWING
12' UTILITY EASEMENT PER CSM 1886
PARCEL 1 CSM 1886 DOC 1025520
TLE 1539 SF FOR GRADING AND LATERAL INSTALLATION
SLOPE INTERCEPT
65'
60TH AVENUE
EXISTING R/W
SIXTEENTH LINE
MATCH LINE SEE SHEET 4.05
SE-SE

106+59.96 T151 -70.71'
107+15.57 T152 -70.84'
111+21.78 T153 -60.00'
112+75.06 T154 -60.00'
112+75.52 T155 -50.00'

RL=S88°32'58"E 583.09'
MON TO 100
102
104
100
101
103
106
107
108
109
110
112
113
117
116
115
114
P.L.
E
G
OH
GUY
EXISTING R/W
50'
33'
108
110
112
S88°32'58"E 1327.16'
110 TO MON
2654.33'
MON TO MON

93RD STREET

NE-NW

BEGIN RELOCATION ORDER
PROJECT 3830-01-00
STA. 100+00.00
Y = 116924..468
X = 612840.536
LOCATED AT THE NORTH QUARTER CORNER OF SECTION 22, T 01 N, R 22 E.

T 01 N
15 22
R 22 E
CONCRETE MON. WITH WISDOT ALUM. CAP
Y = 116924.468
X = 612840.536

WEST LIMITS
STA 100+00.00

SLOPE INTERCEPT

T 1 N
15 14
22 23
R 22 E
CONCRETE MON. WITH SEWRPC BRASS CAP
Y = 116857.277
X = 615494.011

NW-NE

PARCEL 2, 3, & 4 TLE		
COURSE	BEARING	DISTANCE
103-T151	N01°12'54"W	10.01
T151-T152	S88°40'35"E	55.61
T152-T153	S87°01'18"E	406.35
T153-T154	S88°32'58"E	153.28
T154-T155	S01°10'02"E	10.00
T155-107	N88°32'58"W	153.87
107-106	N87°01'18"W	406.34
106-103	N88°40'35"W	55.02

76TH STREET KENOSHA LLC
7
PARCEL 2
CSM 2182
DOC 1178723

AT&T NO RECORD EASEMENT PARCEL 5
WISCONSIN ELECTRIC POWER COMPANY DOC. 1916330 PARCEL 5
WISCONSIN ELECTRIC POWER COMPANY DOC. 289574 PARCEL 5
UNPLATTED LANDS
6
SCOTT S. DANKERT AND BETH E. DANKERT
TLE 2238 SF FOR GRADING AND LATERAL INSTALLATION
TLE 1943 SF FOR GRADING AND LATERAL INSTALLATION
10' WIDE WISCONSIN GAS & ELECTRIC COMPANY EASEMENT VOL. 292, PG 158, DOC 289574
UNPLATTED LANDS
12' WIDE WISCONSIN ELECTRIC POWER COMPANY EASEMENT DOC 1916330
5
PHILLIP W. ROEMER AND TRACEY J. ROEMER

109+21.31 T158 73.50'
109+43.98 T157 50.00'
113+29.70 T156 60.00'
113+28.56 T111 33.00'
64.9'
66.5'
STA 113+27.16
SIXTEENTH LINE

PARCEL 5 & 6 TLE		
COURSE	BEARING	DISTANCE
112-T156	S00°58'10"E	10.01
T156-T157	N88°32'58"W	395.37
T157-T158	S45°25'05"W	18.76
T158-113	N00°58'06"W	23.52
113-112	S88°32'58"E	408.96

NE-NE

VILLAGE OF PLEASANT PRAIRIE

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, KENOSHA COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY AND PERMANENT EASEMENT MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING ACCESS CONTROL ALONG 93RD STREET ESTABLISHED FROM CREEKSIDE CROSSING SUBDIVISION, CSM 2182, AND CSM 1806.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE VILLAGE OF PLEASANT PRAIRIE COMMUNITY DEVELOPMENT DEPARTMENT.

REVISION DATE	1/20/2026	4/13/2026	5/26/2026

DATE: 10/03/2025	SCALE, FEET 0 50 100	HWY: 93RD STREET	STATE R/W PROJECT NUMBER 3830-01-00	PLAT SHEET 4.04	
GRID FACTOR		COUNTY: KENOSHA	CONSTRUCTION PROJECT NUMBER 3830-01-70	PS&E SHEET 132	E

FILE NAME : 38300100RWPL.DWG
LAYOUT NAME - 4.04
PLOT DATE : 5/26/2026 10:41 AM
PLOT BY : GOLAT, JACOB
PLOT NAME :
PLOT SCALE :

WISDOT/CADDS SHEET 75

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
93RD STREET	CSM 2739	33'	2013
93RD STREET	HIGHLAND ESTATES	50'	2025
60TH STREET	CSM 1886	65'	1996
INGRAM PARK DRIVE	CSM 2739	66'	2013

PARCEL 8, 9, 10 & 11 TLE		
COURSE	BEARING	DISTANCE
203-T250	N80°44'01"W	73.53'
T250-T251	S88°32'58"E	521.99'
T251-T252	N83°46'07"E	26.18'
T252-T253	S88°32'58"E	247.73'
T253-204	S01°27'02"W	13.50'
204-203	N88°32'58"W	722.81'

R/W OFFSETS STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
110	113+27.16	0.00' RT	116890.872	614167.274
200	113+24.80	50.77' LT	116941.689	614166.195
201	113+40.40	51.50' LT	116942.021	614181.815
202	113+54.01	44.66' LT	116934.841	614195.245
203	114+38.98	33.00' LT	116921.031	614279.888
204	121+61.79	33.00' LT	116902.734	615002.471
205	122+27.79	33.00' LT	116901.064	615068.450
P206	125+76.48	33.00' LT	116892.237	615417.024
P207	125+76.48	43.00' LT	116902.234	615417.277
P208	126+38.98	43.00' LT	116900.652	615479.757
P209	126+38.98	33.00' LT	116890.655	615479.504
T256	126+52.79	33.00' LT	116890.305	615493.314
MON	126+54.33	0.00'	116857.277	615494.011

PARCEL 11 & 12 TLE		
COURSE	BEARING	DISTANCE
205-T254	N01°27'02"E	10.00'
T254-P206	S88°32'58"E	348.69'
P207-P206	S01°27'02"W	10.00'
P206-205	N88°32'58"W	348.69'

PARCEL 12 TLE		
COURSE	BEARING	DISTANCE
T254-T255	N01°12'31"W	10.01'
T255-P208	N88°32'58"W	13.35'
P208-P209	S01°27'02"W	10.00'
P209-T254	S88°32'58"E	13.81'

PARCEL 12 PLE		
COURSE	BEARING	DISTANCE
P206-P207	N01°27'02"E	10.00'
P207-P208	S88°32'58"E	62.50'
P208-P209	S01°27'02"W	10.00'
P209-P206	N88°32'58"W	62.50'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
MON-110	N88°32'58"W	1327.16'
110-200	N01°12'57"W	50.83'
200-201	N88°47'03"E	15.62'
201-202	S61°52'22"E	15.23'
202-203	S80°44'01"E	85.76'
203-204	S88°32'58"E	722.81'
204-205	S88°32'58"E	66.00'
205-T256	S88°32'58"E	425.00'
T256-MON	S01°12'31"E	33.04'

UTILITY INTERESTS REQUIRED		
UTILITY NO.	OWNER	INTEREST REQUIRED
100	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
102	ATC	RELEASE OF RIGHTS

POINT TABLE			
POINT NAME	Y	X	DESCIPTION
IP2001	116914.307	614546.665	1¼"IRON PIPE FOUND
IP2002	116906.804	614846.551	1¼"IRON PIPE FOUND
IP2003	116897.363	615212.806	1¼"IRON PIPE FOUND
IP2004	116840.797	614837.849	1¼"IRON PIPE FOUND

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, KENOSHA COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY AND PERMANENT EASEMENT MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING ACCESS CONTROL ALONG 93RD STREET ESTABLISHED FROM HIGHLAND ESTATES SUBDIVISION.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE VILLAGE OF PLEASANT PRAIRIE COMMUNITY DEVELOPMENT DEPARTMENT.

FOUND MONUMENT INFORMATION SHOWN REPRESENTS TYPE AND LOCATION OF EXISTING MONUMENTS WITHOUT OPINION AS TO THEIR VALIDITY AND USE AS A PROPERTY CORNER

REVISION DATE 1/20/2026	DATE: 10/03/2025	SCALE, FEET 0 50 100	HWY: 93RD STREET	STATE R/W PROJECT NUMBER 3830-01-00	PLAT SHEET 4.05
	GRID FACTOR		COUNTY: KENOSHA	CONSTRUCTION PROJECT NUMBER 3830-01-70	PS&E SHEET 133 E

FILE NAME : 38300100RWPL.DWG
LAYOUT NAME - 4.05

PLOT DATE : 5/26/2026 10:41 AM PLOT BY : GOLAT, JACOB PLOT NAME :

WISDOT/CADDS SHEET 75

R/W OFFSETS STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
T256	126+52.79	33.00' LT	116890.305	615493.314
300	132+33.91	33.01' LT	116879.962	616074.095
301	132+33.91	43.00' LT	116889.952	616074.273
302	132+63.91	43.00' LT	116889.418	616104.269
303	132+63.91	33.01' LT	116879.428	616104.091
304	135+17.91	33.01' LT	116874.905	616358.046
305	135+17.91	43.00' LT	116884.895	616358.224
306	135+32.67	43.00' LT	116884.633	616372.980
307	135+33.05	33.01' LT	116874.635	616373.187
308	138+91.94	33.01' LT	116868.245	616732.017
309	139+13.47	35.91' LT	116870.765	616753.594
310	139+38.61	43.64' LT	116878.042	616778.866
311	139+46.02	49.89' LT	116884.163	616786.387

R/W OFFSETS STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
312	139+78.99	51.16' LT	116884.847	616819.380
313	139+80.97	0.00' RT	116833.656	616820.440
314	139+82.86	50.00' RT	116783.631	616821.442
315	138+95.77	50.00' RT	116785.182	616734.368
316	132+53.91	50.00' RT	116796.611	616092.614
317	132+53.91	60.00' RT	116786.613	616092.436
318	132+23.91	60.00' RT	116787.147	616062.441
319	132+23.91	50.00' RT	116797.145	616062.619
320	131+38.91	50.00' RT	116798.659	615977.633
321	131+38.91	160.24' RT	116688.433	615975.664
322	129+03.91	160.24' RT	116692.618	615740.702
323	129+03.91	50.00' RT	116802.843	615742.668
324	126+56.22	50.00' RT	116807.253	615495.013
MON	126+54.33	0.00'	116857.277	615494.011

PARCELS 13, 14 & 15 TLE		
COURSE	BEARING	DISTANCE
T256-T255	N01°12'31"W	10.00'
T255-P301	S88°58'47"E	581.26'
P301-P300	S01°01'13"W	10.00'
P300-T256	N88°58'47"W	580.87'

PARCELS 15 & 16 TLE		
COURSE	BEARING	DISTANCE
P303-P302	N01°01'13"E	10.00'
P302-P305	S88°58'47"E	254.00'
P305-P304	S01°01'13"W	10.00'
P304-P303	N88°58'47"W	254.00'

EXISTING IRON POINT TABLE			
POINT	Y	X	DESCRIPTION
IP3000	116887.095	615659.181	1¼"' IRON PIPE
IP3001	116870.832	616555.017	1¼"' IRON PIPE
IP3002	116803.802	616655.305	1¼"' IRON PIPE
IP3003	116786.653	616657.390	1¼"' IRON PIPE
IP3004	116823.151	615557.628	1¼"' IRON PIPE

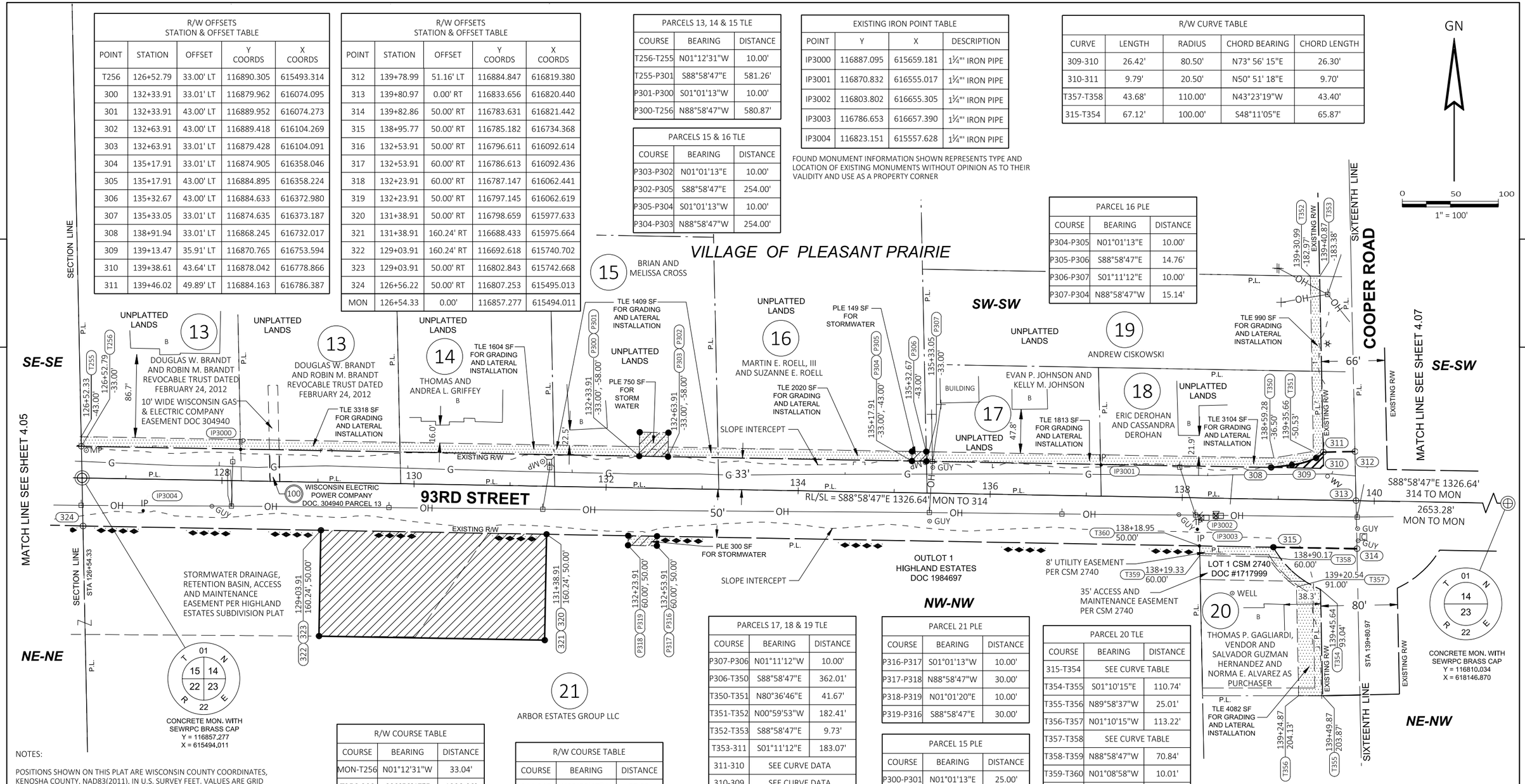
FOUND MONUMENT INFORMATION SHOWN REPRESENTS TYPE AND LOCATION OF EXISTING MONUMENTS WITHOUT OPINION AS TO THEIR VALIDITY AND USE AS A PROPERTY CORNER

R/W CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
309-310	26.42'	80.50'	N73° 56' 15"E	26.30'
310-311	9.79'	20.50'	N50° 51' 18"E	9.70'
T357-T358	43.68'	110.00'	N43°23'19"W	43.40'
315-T354	67.12'	100.00'	S48°11'05"E	65.87'

PARCEL 16 PLE		
COURSE	BEARING	DISTANCE
P304-P305	N01°01'13"E	10.00'
P305-P306	S88°58'47"E	14.76'
P306-P307	S01°11'12"E	10.00'
P307-P304	N88°58'47"W	15.14'

GN

0 50 100
1" = 100'



PARCELS 17, 18 & 19 TLE		
COURSE	BEARING	DISTANCE
P307-P306	N01°11'12"W	10.00'
P306-T350	S88°58'47"E	362.01'
T350-T351	N80°36'46"E	41.67'
T351-T352	N00°59'53"W	182.41'
T352-T353	S88°58'47"E	9.73'
T353-311	S01°11'12"E	183.07'
311-310	SEE CURVE DATA	
310-309	SEE CURVE DATA	
309-308	S83°20'19"W	21.79'
308-P307	N88°58'47"W	358.89'

PARCEL 21 PLE		
COURSE	BEARING	DISTANCE
P316-P317	S01°01'13"W	10.00'
P317-P318	N88°58'47"W	30.00'
P318-P319	N01°01'20"E	10.00'
P319-P316	S88°58'47"E	30.00'

PARCEL 15 PLE		
COURSE	BEARING	DISTANCE
P300-P301	N01°01'13"E	25.00'
P301-P302	S88°58'47"E	30.00'
P302-P303	S01°01'13"W	25.00'
P303-P300	N88°58'47"W	30.00'

PARCEL 20 TLE		
COURSE	BEARING	DISTANCE
315-T354	SEE CURVE TABLE	
T354-T355	S01°10'15"E	110.74'
T355-T356	N89°58'37"W	25.01'
T356-T357	N01°10'15"W	113.22'
T357-T358	SEE CURVE TABLE	
T358-T359	N88°58'47"W	70.84'
T359-T360	N01°08'58"W	10.01'
T360-315	S88°58'47"E	76.82'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
MON-T256	N01°12'31"W	33.04'
T256-308	S88°58'47"E	1238.90'
308-309	N83°20'19"E	21.72'
309-310	SEE CURVE TABLE	
310-311	SEE CURVE TABLE	
311-312	N88°48'48"E	33.00'
312-313	S01°11'12"E	51.20'
313-314	S01°08'50"E	50.03'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
314-315	N88°58'47"W	87.09'
315-320	N88°58'47"W	756.86'
320-321	S01°01'23"W	110.24'
321-322	N88°58'47"W	235.00'
322-323	N01°01'23"E	110.24'
323-324	N88°58'47"W	247.70'
324-MON	N01°08'49"W	50.03'

UTILITY INTERESTS REQUIRED		
UTILITY NO.	OWNER	INTEREST REQUIRED
100	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS

100 WE ENERGIES - ELECTRIC DOC. 304940 - PAR. 13

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, KENOSHA COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY AND PERMANENT EASEMENT MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING ACCESS CONTROL ALONG 93RD STREET ESTABLISHED FROM HIGHLAND ESTATES SUBDIVISION.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE VILLAGE OF PLEASANT PRAIRIE COMMUNITY DEVELOPMENT DEPARTMENT.

VILLAGE OF PLEASANT PRAIRIE

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
93RD STREET	CSM 2740	50'	2013
93RD STREET	HIGHLAND ESTATES	50'	2025
93RD STREET	DEVONSHIRE SUBDIVISION	83'	2007
COOPER ROAD	CSM 2740	VARYING WIDTH	2013

REVISION DATE	1/20/2026	4/13/2026	

DATE: 10/03/2025
GRID FACTOR
SCALE, FEET 0 50 100
HWY: 93RD STREET
COUNTY: KENOSHA
STATE R/W PROJECT NUMBER 3830-01-00
CONSTRUCTION PROJECT NUMBER 3830-01-70
PLAT SHEET 4.06
PS&E SHEET 134
E

FILE NAME : 38300100RWPL.DWG
LAYOUT NAME - 4.06
PLOT DATE : 5/26/2026 10:41 AM
PLOT BY : GOLAT, JACOB
PLOT NAME :
WISDOT/CADDS SHEET 75

PARCEL 22 TLE		
COURSE	BEARING	DISTANCE
411-T456	N01°11'12"W	34.92'
T456-T457	S88°58'47"E	10.01'
T457-T458	S01°11'12"E	33.47'
T458-T459	S13°16'13"E	73.75'
T459-T460	SEE CURVE TABLE	
T460-T461	S88°58'48"E	267.75'
T461-T462	S01°01'12"E	10.01'
T462-413	N88°58'48"W	274.26'
413-412	SEE CURVE TABLE	
412-411	N13°16'13"W	74.81'

R/W OFFSETS STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
314	139+80.97	0.00' RT	116833.656	616820.440
315	139+82.86	50.00' RT	116783.631	616821.442
400	153+07.61	33.00' RT	116777.017	618147.531
401	151+87.61	33.00' RT	116779.176	618026.306
402	150+97.61	33.00' RT	116780.778	617936.320
403	149+17.61	33.00' RT	116783.983	617756.349
404	149+17.61	50.00' RT	116766.986	617756.046
405	146+53.82	50.00' RT	116771.683	617492.302
406	146+53.18	33.00' RT	116788.690	617491.961
407	145+43.18	33.00' RT	116790.650	617381.978
408	145+43.78	50.00' RT	116773.643	617382.273
409	140+69.00	50.00' RT	116782.097	616907.575
410	139+76.20	123.72' LT	116957.440	616817.876
411	140+09.17	124.99' LT	116958.124	616850.869
412	140+27.27	53.94' LT	116886.763	616867.699
413	140+35.43	33.00' LT	116865.680	616875.485
414	151+11.38	33.00' LT	116846.523	617951.267
415	151+74.39	50.00' LT	116862.399	618014.562
416	153+05.70	50.00' LT	116860.060	618145.853
MON	153+07.61	0.00'	116810.034	618146.870

PARCEL 23 TLE		
COURSE	BEARING	DISTANCE
T452-T453	S01°08'52"E	112.84'
T453-T454	S88°51'08"W	5.00'
T454-T455	N01°08'52"W	110.51'
T455-T452	SEE CURVE TABLE	

PARCEL 23 TLE		
COURSE	BEARING	DISTANCE
409-T450	S88°56'43"E	50.49'
T450-T451	S84°37'16"W	54.66'
T451-409	SEE CURVE TABLE	

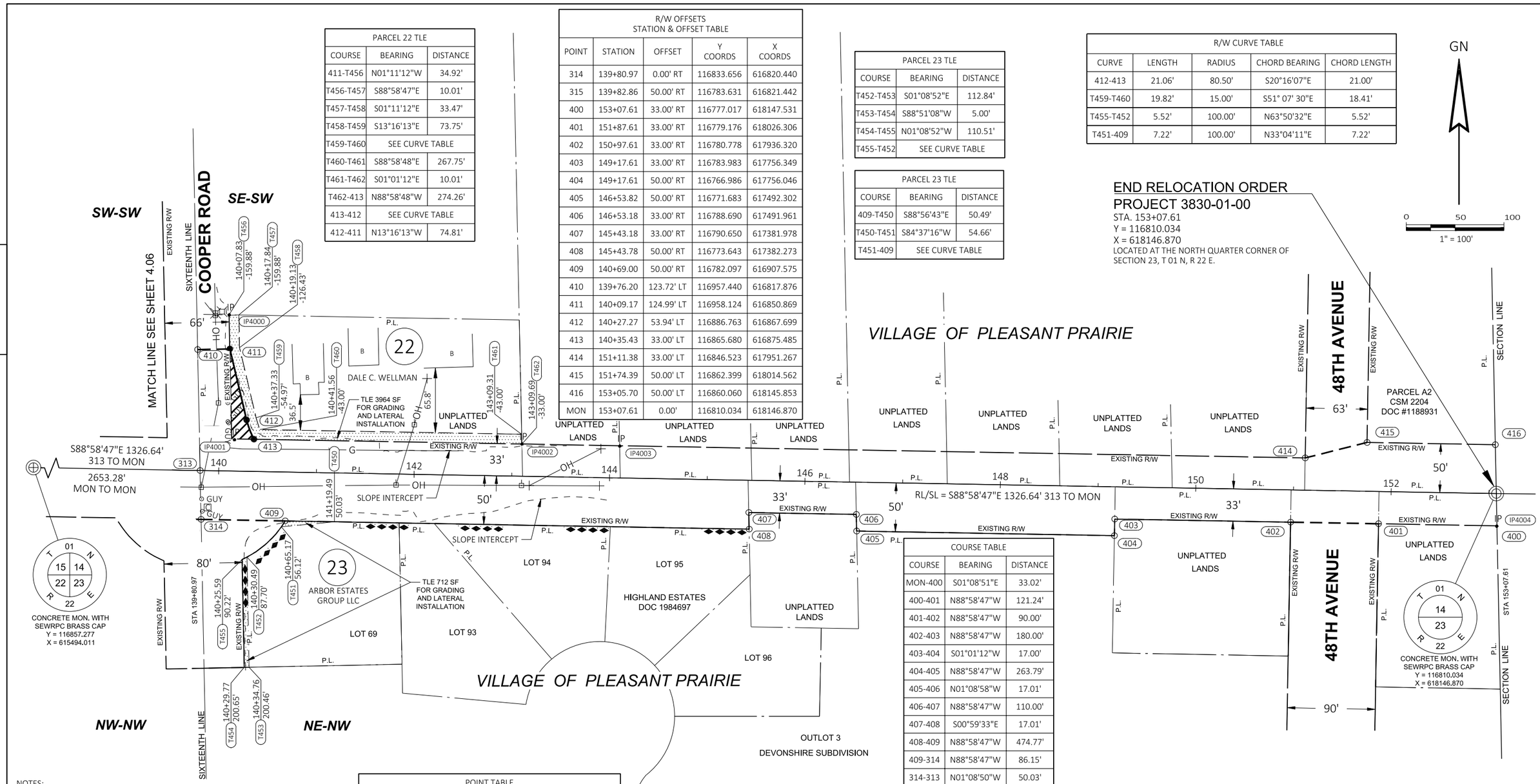
R/W CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
412-413	21.06'	80.50'	S20°16'07"E	21.00'
T459-T460	19.82'	15.00'	S51° 07' 30"E	18.41'
T455-T452	5.52'	100.00'	N63°50'32"E	5.52'
T451-409	7.22'	100.00'	N33°04'11"E	7.22'

GN

0 50 100

1" = 100'

END RELOCATION ORDER
PROJECT 3830-01-00
STA. 153+07.61
Y = 116810.034
X = 618146.870
LOCATED AT THE NORTH QUARTER CORNER OF SECTION 23, T 01 N, R 22 E.



COURSE TABLE		
COURSE	BEARING	DISTANCE
MON-400	S01°08'51"E	33.02'
400-401	N88°58'47"W	121.24'
401-402	N88°58'47"W	90.00'
402-403	N88°58'47"W	180.00'
403-404	S01°01'12"W	17.00'
404-405	N88°58'47"W	263.79'
405-406	N01°08'58"W	17.01'
406-407	N88°58'47"W	110.00'
407-408	S00°59'33"E	17.01'
408-409	N88°58'47"W	474.77'
409-314	N88°58'47"W	86.15'
314-313	N01°08'50"W	50.03'
313-410	N01°11'12"W	123.81'
410-411	N88°48'48"E	33.00'
411-412	S13°16'13"E	74.81'
412-413	SEE CURVE TABLE	
413-414	S88°58'47"E	1075.95'
414-415	N75°55'09"E	65.26'
415-416	S88°58'47"E	131.31'
416-MON	S01°09'53"E	50.04'

POINT TABLE			
POINT NAME	Y	X	DESCIPTION
IP4000	116992.899	616850.276	1¼"IRON PIPE FOUND
IP4001	116865.124	616855.678	1¼"IRON PIPE FOUND
IP4002	116860.713	617149.866	1¼"IRON PIPE FOUND
IP4003	116858.601	617249.985	1¼"IRON PIPE FOUND
IP4004	116776.676	618147.336	1¼"IRON PIPE FOUND

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, KENOSHA COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY AND PERMANENT EASEMENT MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING ACCESS CONTROL ALONG 93RD STREET ESTABLISHED FROM HIGHLAND ESTATES SUBDIVISION.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE VILLAGE OF PLEASANT PRAIRIE COMMUNITY DEVELOPMENT DEPARTMENT.

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
93RD STREET	HIGHLAND ESTATES	50'	2025
COOPER ROAD	CSM 2740	VARYING WIDTH	2013
48TH AVENUE	DEVONSHIRE SUBDIVISION	90'	2007

REVISION DATE 1/20/2026	DATE: 10/03/2025	SCALE, FEET 0 50 100	HWY: 93RD STREET	STATE R/W PROJECT NUMBER 3830-01-00	PLAT SHEET 4.07
	GRID FACTOR		COUNTY: KENOSHA	CONSTRUCTION PROJECT NUMBER 3830-01-70	PS&E SHEET 135 E

FILE NAME : 38300100RWPL.DWG
LAYOUT NAME - 4.07

PLOT DATE : 5/26/2026 10:41 AM PLOT BY : GOLAT, JACOB PLOT NAME :

WISDOT/CADDS SHEET 75

CREEKSIDE CROSSING HOMEOWNERS ASSOCIATION

JOSEPH W YOUNG DECLARATION OF TRUST

N

WETLAND BOUNDARY

EXISTING P.L. (TYP)

STA 52+07'EB', LT
CONSTRUCT FE (GRAVEL/CONCRETE)
1 - CP CLASS III-B 15-INCH REQ'D
2 - APRON ENDWALLS REQ'D

PROPOSED R/W

PROPOSED TLE

VILLAGE OF PLEASANT PRAIRIE (WATER)

EXISTING R/W

WE ENERGIES (GAS)

SLOPE INTERCEPT

CP 901

WE ENERGIES (ELEC)

93RD ST

48'EB' 49'EB' 50'EB' 51'EB' 52'EB' 53'EB'

SPECTRUM (COMM)

CONSTRUCTION LIMITS
STA 49+40.00'EB'
MATCH EXISTING
SAWCUT REQ'D

VILLAGE OF PLEASANT PRAIRIE (SANITARY)

WETLAND BOUNDARY

BEGIN PROJECT
STA 49+87.00'EB'
MATCH EXISTING
SAWCUT REQ'D

EXISTING R/W

WE ENERGIES (ELEC)
TDS TELECOM, AT&T, AND
SPECTRUM (COMM)

76TH STREET KENOSHA LLC

PROPOSED R/W

SLOPE INTERCEPT

PROPOSED RETENTION POND

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
CP 900	45+31'EB'	49' LT	705.87'	FENO MONUMENT WITH ALUMINUM CAP
CP 901	52+77'EB'	36' LT	703.77'	FENO MONUMENT WITH ALUMINUM CAP

720 715 710 705 700 695 690 685

VCL = 105.00
K = 97.80

STA 49+87.00'EB'
EL 701.25

VPC STA 51+72.50'EB'
VPC EL 702.41

VPT STA 52+77.50'EB'
VPT EL 703.64

VPC STA 53+22.50'EB'
VPC EL 704.41

EXISTING PROFILE

1.70%

0.63%

1.60%

0.50%

1.55%

0.54%

FINISHED PROFILE

SPECIAL DITCH LEFT

SPECIAL DITCH RIGHT

STA 48+65.00
EL 698.28

STA 49+75.00
EL 697.95

STA 50+70.00
EL 698.46

STA 51+50.00
EL 699.70

STA 52+10.00
EL 700.00

VPI STA 52+25.00'EB'
VPI EL 702.74

VCL = 105.00
K = 110.78

700.96 700.71 700.51 700.44 700.41 700.47 700.59 700.76 700.95 701.15 701.36 701.33 701.57 701.49 701.85 701.64 702.10 701.80 702.32 701.96 702.52 702.12 702.72 702.27 702.90 702.43 703.11 702.63 703.59 702.89 704.07 703.21 704.57 703.60 705.02 704.02 705.39 704.45 705.71 704.84

48'EB' 49'EB' 50'EB' 51'EB' 52'EB' 53'EB'

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN AND PROFILE: 93RD STREET	SHEET 136	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\050101-PP.DWG
LAYOUT NAME - PP-1

PLOT DATE : 9/25/2026 9:55 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

JOSEPH W YOUNG DECLARATION OF TRUST

PROPOSED TLE

STA 54+40'EB', LT
CONSTRUCT PE (GRAVEL/CONCRETE)
18' - CP CLASS III-B 15-INCH REQ'D
2 - APRON ENDWALLS REQ'D

ALLYN LEROY COON

PROPOSED R/W

SLOPE INTERCEPT

VILLAGE OF PLEASANT PRAIRIE (WATER)

WE ENERGIES (GAS)

WETLAND BOUNDARY

EXISTING P.L. (TYP)

WE ENERGIES (ELEC)
SPECTRUM (COMM)

ANTHONY L EWING

STA 5+47 (60TH AVE)
1 - 54' CP CLASS III-B 18-INCH REQ'D
2 - APRON ENDWALLS REQ'D

EXISTING LIGHT POLE TO REMAIN

EXISTING R/W

CONSTRUCTION LIMITS
STA 5+83.32 (60TH AVE)
MATCH EXISTING
SAWCUT REQ'D

JOHN J & AMY L VOGEL AND
FULMER VOGEL TRUST

PROPOSED TLE

PROPOSED R/W

N

93RD ST

54'EB' 55'EB' 56'EB' 57'EB' 58'EB' 59'EB'

60TH AVE

9+00

5

PROPOSED RETENTION POND

76TH STREET KENOSHA LLC

STA 54+35'EB', RT
20' - CP CLASS III-B 18-INCH REQ'D
2 - APRON ENDWALLS REQ'D

SCOTT S DANKERT

WE ENERGIES (ELEC)
TDS TELECOM, AT&T, AND
SPECTRUM (COMM)

SLOPE INTERCEPT

STA 55+95'EB', RT
CONSTRUCT PE (CONCRETE)
SAWCUT REQ'D

PROPOSED TLE

PROPOSED R/W

STA 57+15'EB', RT
CONSTRUCT PE (CONCRETE)
SAWCUT REQ'D

PHILLIP W ROEMER

STA 58+46.30'EB' =
STA 5+00 (60TH AVE)

WETLAND BOUNDARY

EXISTING R/W

ARBOR ESTATES GROUP LLC

5

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
CP 901	52+77'EB'	36' LT	703.77'	FENO MONUMENT WITH ALUMINUM CAP
CP 902	61+24'EB'	36' LT	715.47'	FENO MONUMENT WITH ALUMINUM CAP

VCL = 105.00
K = 124.34

VPI STA 53+75.00'EB'
VPI EL 705.30

VPT STA 54+27.50'EB'
VPT EL 705.70

VPC STA 55+47.50'EB'
VPC EL 706.66

VPI STA 56+00.00'EB'
VPI EL 707.00

VPT STA 56+52.50'EB'
VPT EL 707.84

VPC STA 59+47.50'EB'
VPC EL 712.56

EXISTING PROFILE

FINISHED PROFILE

0.76%

1.60%

0.67%

1.46%

1.60%

8.00%

3.14%

SPECIAL DITCH LEFT

STA 54+40.00
EL 703.68

STA 56+00.00
EL 704.75

STA 58+15.00
EL 707.89

STA 58+70.00
EL 708.77

STA 58+85.00
EL 709.97

VCL = 105.00
K = 110.78

VCL = 105.00
K = 228.26

720 715 710 705 700 695 690 685

705.71 704.84 705.95 705.18 706.20 705.45 706.45 705.68 706.66 705.87 706.80 706.06 706.89 706.24 707.03 706.43 707.19 706.62 707.44 706.84 707.75 707.11 707.96 707.43 708.20 707.80 708.49 708.20 708.82 708.60 709.25 709.00 709.66 709.40 710.11 709.80 710.64 710.20 711.18 710.60 711.63 711.00 711.99 711.40 712.34 711.80 712.72 712.20 713.10 712.60

54'EB' 55'EB' 56'EB' 57'EB' 58'EB' 59'EB'

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN AND PROFILE: 93RD STREET	SHEET 137	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\050101-PP.DWG
LAYOUT NAME - PP-2
PLOT DATE : 9/25/2026 9:55 AM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

JOHN J & AMY L VOGEL AND FULMER VOGEL TRUST

MICHAEL R JAKE

CHRISTOPHER S MIKS

ARBOR ESTATES GROUP LLC

STA 60+00'EB', LT
CONSTRUCT PE (GRAVEL/CONCRETE)
SAWCUT REQ'D

STA 62+14'EB', LT
CONSTRUCT PE (ASPHALT)
SAWCUT REQ'D

STA 63+11'EB', LT
CONSTRUCT PE (GRAVEL)

PROPOSED R/W

SPECTRUM (COMM)

WE ENERGIES (GAS)

SLOPE INTERCEPT

EXISTING P.L. (TYP)

WE ENERGIES (ELEC)
SPECTRUM (COMM)

VILLAGE OF PLEASANT PRAIRIE (WATER)

PROPOSED TLE

WETLAND BOUNDARY

CP 902

93RD ST

60'EB' 61'EB' 62'EB' 63'EB' 64'EB' 65'EB'

WE ENERGIES (ELEC)
TDS TELECOM, AT&T, AND
SPECTRUM (COMM)

SLOPE INTERCEPT

WETLAND BOUNDARY

EXISTING R/W

N

5

5

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
CP 901	52+77'EB'	36' LT	703.77'	FENO MONUMENT WITH ALUMINUM CAP
CP 902	61+24'EB'	36' LT	715.47'	FENO MONUMENT WITH ALUMINUM CAP

VPI STA 60+00.00'EB'
VPI EL 713.40

VPT STA 60+52.50'EB'
VPT EL 714.00

VPC STA 61+45.00 'EB'
VPC EL 715.05

VPI STA 62+50.00'EB'
VPI EL 716.25

VPT STA 63+55.00'EB'
VPT EL 713.62

LP STA 64+99.53'EB'
LP EL 711.57

VCL = 310.00
K = 49.81

EXISTING PROFILE

FINISHED PROFILE

3.14%

1.14%

-2.50%

STA 59+80.00
EL 712.95

SPECIAL DITCH LEFT

HP STA 62+10.77'EB'
HP EL 715.43

VPC STA 63+75.00'EB'
VPC EL 713.12

VPI STA 65+30.00'EB'
VPI EL 709.25

VCL = 210.00
K = 57.69

VCL = 105.00
K = 228.26

725 720 715 710 705 700 695 690

60'EB'	61'EB'	62'EB'	63'EB'	64'EB'	65'EB'
713.10 / 712.60	713.49 / 712.98	713.89 / 713.34	714.32 / 713.67	714.76 / 713.97	715.27 / 714.26
715.71 / 714.54	716.09 / 714.82	716.40 / 715.11	716.70 / 715.32	716.74 / 715.42	716.63 / 715.41
716.41 / 715.29	716.16 / 715.07	715.80 / 714.74	715.33 / 714.30	714.71 / 713.75	714.12 / 713.12
713.55 / 712.56	713.08 / 712.13	712.70 / 711.81	712.52 / 711.63	712.41 / 711.57	712.57 / 711.63
712.77 / 711.82					

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN AND PROFILE: 93RD STREET	SHEET 138	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\050101-PP.DWG
LAYOUT NAME - PP-3

PLOT DATE : 9/25/2026 9:55 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

VILLAGE OF PLEASANT PRAIRIE

STA 66+33'EB', LT
CONSTRUCT PE (ASPHALT/CONCRETE)
SAWCUT REQ'D

INGRAM PARK RD

11'IP'

PROPOSED TLE

WE ENERGIES (GAS)

WETLAND BOUNDARY

WE ENERGIES (ELEC)

CONSTRUCTION LIMITS
STA 10+61.65'IP'
MATCH EXISTING
SAWCUT REQ'D

VILLAGE OF PLEASANT PRAIRIE

EXISTING P.L. (TYP)

VILLAGE OF PLEASANT PRAIRIE (WATER)

SLOPE INTERCEPT

EUGENE J WRIGHT

STA 69+92'EB', LT
CONSTRUCT PE (CONCRETE)
SAWCUT REQ'D

STA 71+44'EB', LT
CONSTRUCT FE (GRAVEL/CONCRETE)

N

EXISTING R/W

PROPOSED TLE

PROPOSED PLE

WETLAND BOUNDARY

CP 903

93RD ST

66'EB' 67'EB' 68'EB' 69'EB' 70'EB' 71'EB'

93RD ST

5

5

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
CP 902	61+24'EB'	36' LT	715.47'	FENO MONUMENT WITH ALUMINUM CAP
CP 903	69+72'EB'	32' LT	719.44'	FENO MONUMENT WITH ALUMINUM CAP

WE ENERGIES - ELEC
TDS TELECOM, AT&T, AND
SPECTRUM (COMM)

EXISTING R/W

SLOPE INTERCEPT

WETLAND BOUNDARY

ARBOR ESTATES GROUP LLC

VCL = 310.00
K = 49.81

VPC STA 66+90.00'EB'
VPC EL 715.21

VPT STA 66+85.00'EB'
VPT EL 715.02

VPI STA 67+65.00'EB'
VPI EL 718.00

VPT STA 68+40.00'EB'
VPT EL 718.38

VPC STA 69+27.50 'EB'
VPC EL 718.81

VPI STA 69+80.00'EB'
VPI EL 719.08

HP STA 69+60.31'EB'
HP EL 718.89

VPT STA 70+32.50'EB'
VPT EL 718.50

VPC STA 70+55.00'EB'
VPC EL 718.25

VPI STA 71+20.00'EB'
VPI EL 717.54

LP STA 71+26.40'EB'
LP EL 717.86

VCL = 130.00
K = 64.90

EXISTING PROFILE

FINISHED PROFILE

3.72%

0.50%

-1.10%

VCL = 150.00
K = 46.53

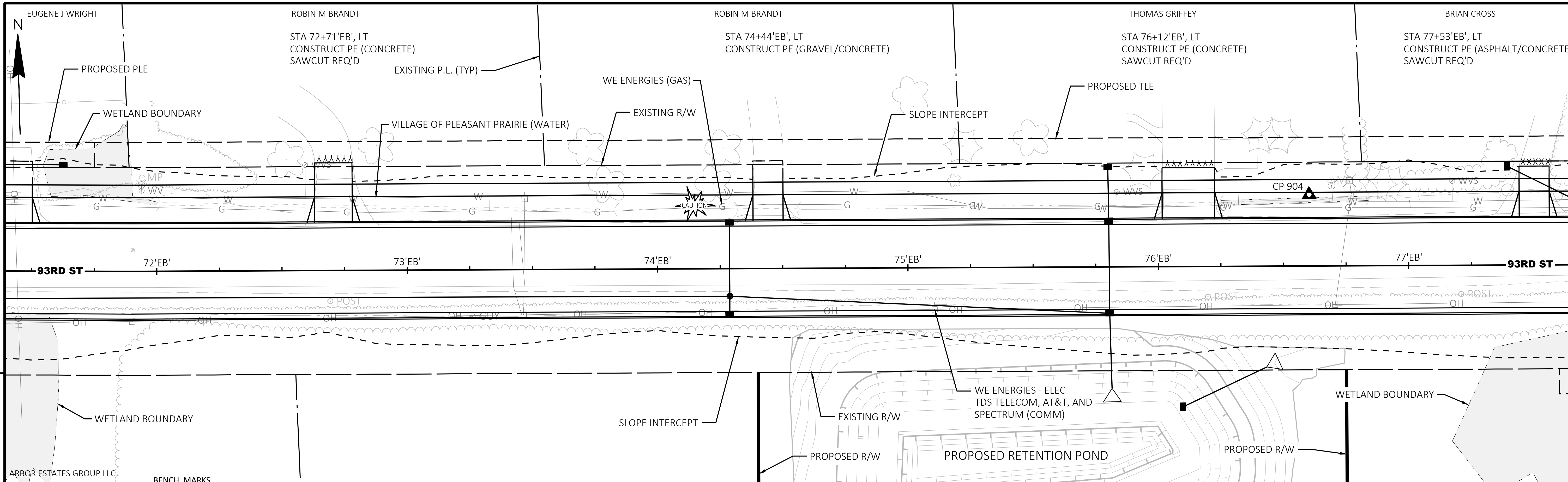
VCL = 105.00
K = 65.62

730 725 720 715 710 705 700 695

712.77	711.82	713.08	712.14	713.52	712.58	714.02	713.15	714.71	713.84	715.46	714.66	716.22	715.57	716.86	716.38	717.37	717.05	717.82	717.60	718.23	718.00	718.52	718.28
718.70	718.42	718.82	718.55	718.94	718.68	719.09	718.80	719.24	718.89	719.37	718.88	719.31	718.77	719.22	718.58	719.04	718.30	718.89	718.06	718.82	717.91	718.79	717.86	718.77	717.90

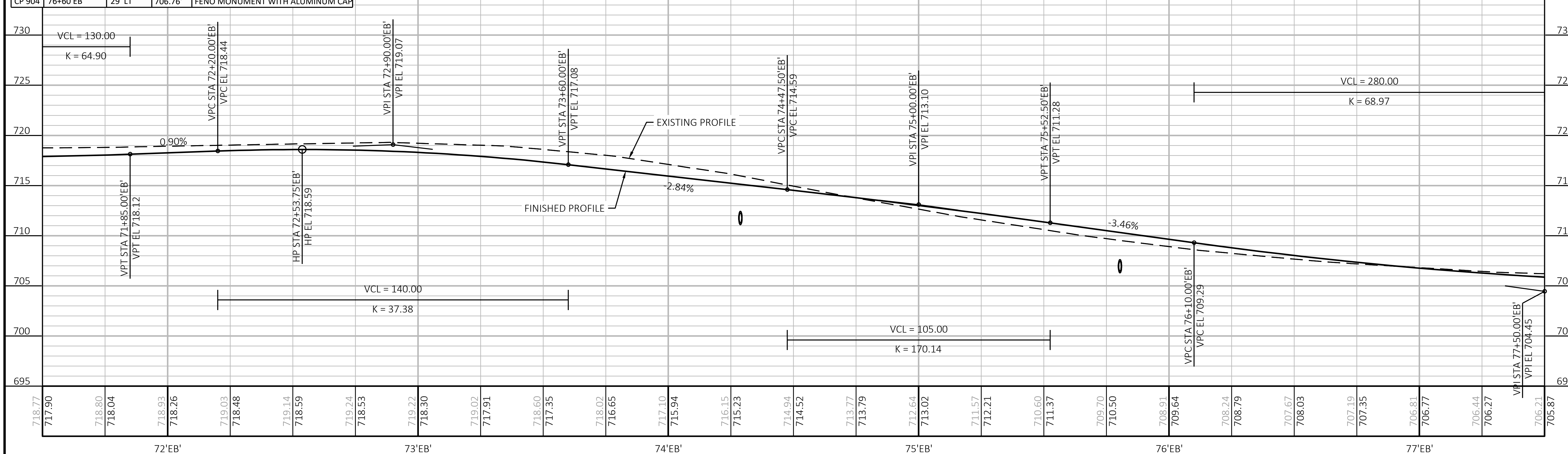
66'EB' 67'EB' 68'EB' 69'EB' 70'EB' 71'EB'

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN AND PROFILE: 93RD STREET	SHEET 139	E



BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
CP 903	69+72'EB'	32' LT	719.44'	FENO MONUMENT WITH ALUMINUM CAP
CP 904	76+60'EB'	29' LT	706.76'	FENO MONUMENT WITH ALUMINUM CAP



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN AND PROFILE: 93RD STREET	SHEET 140	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\050101-PP.DWG
LAYOUT NAME - PP-5
PLOT DATE : 9/25/2026 9:56 AM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

BRIAN CROSS

MARTIN E ROELL

EVAN P JOHNSON

ERIC DEROHAN

PROPOSED PLE

EXISTING P.L. (TYP)

PROPOSED TLE

WETLAND BOUNDARY

SLOPE INTERCEPT

WE ENERGIES (GAS)

PROPOSED TLE

EXISTING R/W

STA 79+99'EB', LT
CONSTRUCT PE (ASPHALT/CONCRETE)
SAWCUT REQ'D

PROPOSED PLE

TREE TO REMAIN. NO IMPACTS ANTICIPATED

SPECTRUM (COMM)

STA 81+27'EB', LT
CONSTRUCT PE (ASPHALT/CONCRETE)
SAWCUT REQ'D

VILLAGE OF PLEASANT PRAIRIE (WATER)

STA 83+02'EB', LT
CONSTRUCT PE (ASPHALT/CONCRETE)
SAWCUT REQ'D

N

CP 905

93RD ST

78'EB'

79'EB'

80'EB'

81'EB'

82'EB'

83'EB'

93RD ST

VILLAGE OF PLEASANT PRAIRIE (SANITARY)

WE ENERGIES (ELEC)
TDS TELECOM, AT&T, AND
SPECTRUM (COMM)

SLOPE INTERCEPT

WETLAND BOUNDARY

PROPOSED PLE

EXISTING R/W

WETLAND BOUNDARY

5

5

ARBOR ESTATES GROUP LLC

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
CP 904	76+60'EB'	29' LT	706+76'	FENO MONUMENT WITH ALUMINUM CAP
CP 905	82+02'EB'	39' LT	705.96'	FENO MONUMENT WITH ALUMINUM CAP

VCL = 280.00
K = 68.97

LP STA 78+48.62'EB'
LP EL 705.17

VPI STA 77+50.00'EB'
VPI EL 704.45

VPT STA 78+90.00'EB'
VPT EL 705.29

EXISTING PROFILE

0.60%

VPC STA 79+72.50'EB'
VPC EL 705.78

VPI STA 80+25.00'EB'
VPI EL 706.10

VPT STA 80+77.50'EB'
VPT EL 705.83

FINISHED PROFILE

HP STA 80+29.27'EB'
HP EL 705.96

VCL = 105.00
K = 94.61

-0.51%

VPC STA 82+27.50'EB'
VPC EL 705.07

VPI STA 82+80.00'EB'
VPI EL 704.80

VPT STA 83+32.50'EB'
VPT EL 704.13

-1.28%

VCL = 105.00
K = 136.38

720 715 710 705 700 695 690 685

706.21 705.87 706.02 705.56 705.99 705.34 706.03 705.21 706.25 705.17 706.51 705.22 706.83 705.35 707.08 705.50 707.15 705.65 707.21 705.80 707.01 705.91 706.81 705.95 706.59 705.93 706.41 705.84 706.26 705.72 706.09 705.59 705.97 705.46 705.84 705.34 705.74 705.21 705.73 705.08 705.42 704.93 705.07 704.74 704.85 704.51 704.22 703.90

78'EB' 79'EB' 80'EB' 81'EB' 82'EB' 83'EB'

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN AND PROFILE: 93RD STREET	SHEET 141	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\050101-PP.DWG
LAYOUT NAME - PP-6

PLOT DATE : 9/25/2026 9:56 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

ERIC DEROHAN

DALE C WELLMAN

BARBARA J ALGIERS

N

PROPOSED TLE

PROPOSED R/W

EXISTING R/W

SLOPE INTERCEPT

WE ENERGIES (GAS)

COOPER RD

WE ENERGIES (ELEC)
AT&T AND SPECTRUM (COMM)

STA 91+31'EB', LT
CONSTRUCT PE (CONCRETE)
SAWCUT REQ'D

EXISTING P.L. (TYP)

PROPOSED R/W

VILLAGE OF PLEASANT PRAIRIE (WATER)

SLOPE INTERCEPT

PROPOSED TLE

EXISTING R/W

WE ENERGIES (GAS)

CP 906

CAUTION

11'RA'

84'WB'

84'EB'

93RD ST

91'WB'

91'EB'

92'EB'

93'EB'

93RD ST

WETLAND BOUNDARY

EXISTING R/W

PROPOSED TLE

SLOPE INTERCEPT

85'56

85'NB'

COOPER RD

PROPOSED TLE

EXISTING R/W

SLOPE INTERCEPT

VILLAGE OF PLEASANT PRAIRIE (SANITARY)

WE ENERGIES (ELEC)
TDS TELECOM, AT&T, AND SPECTRUM (COMM)

END PROJECT
STA 93+30.27'EB'
MATCH EXISTING
SAWCUT REQ'D

SALVADOR GUZMAN HERNANDEZ

ARBOR ESTATES GROUP LLC

MASTERCRAFT BUILDERS LLC

ARBOR ESTATES GROUP LLC

5

5

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
CP 905	82+02'EB'	39' LT	705.96'	FENO MONUMENT WITH ALUMINUM CAP
CP 906	93+38'EB'	27' LT	699.27'	FENO MONUMENT WITH ALUMINUM CAP

STA 83+14.89'EB'
EL 704.35

STA 84+71.45'EB'
EL 702.35

EXISTING PROFILE

-1.28%

FINISHED PROFILE

STA 90+00.00'EB'
EL 701.96

VCL = 60.00

K = 57.86

LP STA 90+96.07'EB'
LP EL 701.52

VPC STA 91+35.00'EB'
VPC EL 701.65

HP STA 91+68.68'EB'
HPI EL 701.73

VPI STA 91+75.00'EB'
VPI EL 701.85

VPT STA 92+15.00'EB'
VPT EL 701.57

STA 93+30.27'EB'
EL 700.78

-0.54%

0.50%

2.13%

-0.69%

-0.30%

-0.66%

FINISHED PROFILE

EXISTING PROFILE

SPECIAL DITCH RT

VPC STA 90+65.00'EB'
VPC EL 701.61

VPI STA 90+95.00'EB'
VPI EL 701.45

VPT STA 91+25.00'EB'
VPT EL 701.60

STA 91+57.00
EL 699.70

STA 91+68.68
EL 699.45

VCL = 80.00

K = 67.36

STA 93+71.50
EL 698.84

720 715 710 705 700 695 690 685

704.70 704.22 704.51 703.90 704.31 703.58 704.25 703.26 704.27 702.94 704.22 702.62

83 84

703.48 701.96 702.99 701.82 702.76 701.69 702.09 701.56 701.20 701.53 700.30 701.60 700.40 701.70 700.94 701.73 701.06 701.66 701.22 701.50 701.31 701.33 701.23 701.16 701.02 700.99 700.79 700.82 700.72 700.67

90 91 92 93

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN AND PROFILE: 93RD STREET EASTBOUND	SHEET 142	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\050101-PP.DWG
LAYOUT NAME - PP-7

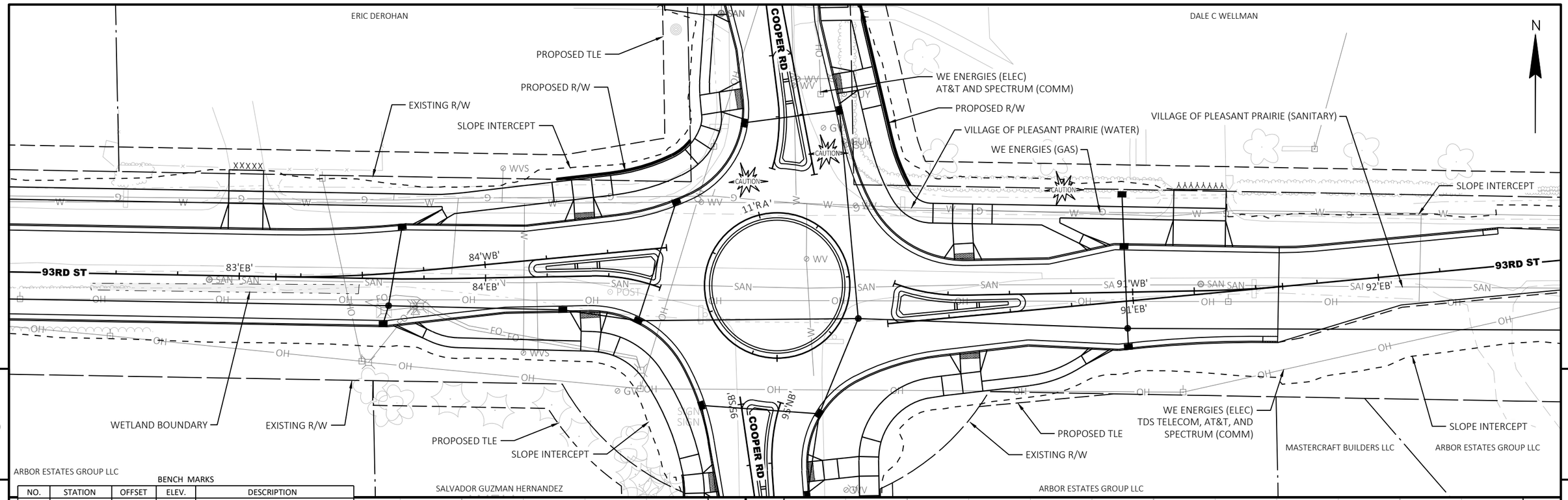
PLOT DATE : 9/27/2026 7:17 PM

PLOT BY : VERVILLE, PHILLIP

PLOT NAME :

PLOT SCALE : 1 IN:40 FT

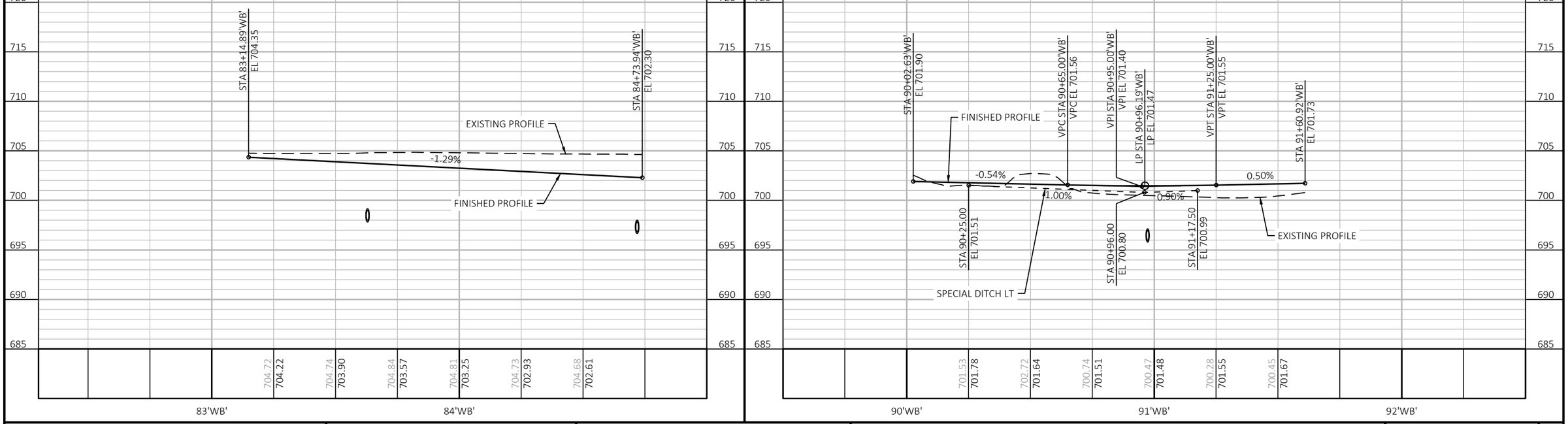
WISDOT/CADDS SHEET 44



ARBOR ESTATES GROUP LLC

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
CP 905	82+02'EB'	39' LT	705.96'	FENO MONUMENT WITH ALUMINUM CAP
CP 906	93+38'EB'	27' LT	699.27'	FENO MONUMENT WITH ALUMINUM CAP



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN AND PROFILE: 93RD STREET WESTBOUND	SHEET 143	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\050101-PP.DWG
LAYOUT NAME - PP-8

PLOT DATE : 9/25/2026 9:56 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

SALVADOR GUZMAN HERNANDEZ | SALVADOR GUZMAN HERNANDEZ | ERIC DEROHAN | ANDREW CISKOWSKI | PENNY L DARRACOTT

N

EXISTING P.L. (TYP)
PROPOSED TLE
EXISTING R/W
SLOPE INTERCEPT
VILLAGE OF PLEASANT PRAIRIE (WATER)
PROPOSED R/W
WE ENERGIES (GAS)
PROPOSED TLE
EXISTING R/W
SLOPE INTERCEPT

93RD ST

COOPER RD

94'SB'
94'NB'
95'SB'
95'NB'
101'SB'
101'NB'
102'NB'

CONSTRUCTION LIMITS
STA 93+85.00 NB
MATCH EXISTING
SAWCUT REQ'D

CONSTRUCTION LIMITS
STA 101+62.31 NB
MATCH EXISTING
SAWCUT REQ'D

PROPOSED TLE
SLOPE INTERCEPT
EXISTING R/W
WE ENERGIES (ELEC)
TDS TELECOM, AT&T, AND SPECTRUM (COMM)
PROPOSED TLE

SLOPE INTERCEPT
PROPOSED R/W
PROPOSED TLE
EXISTING R/W

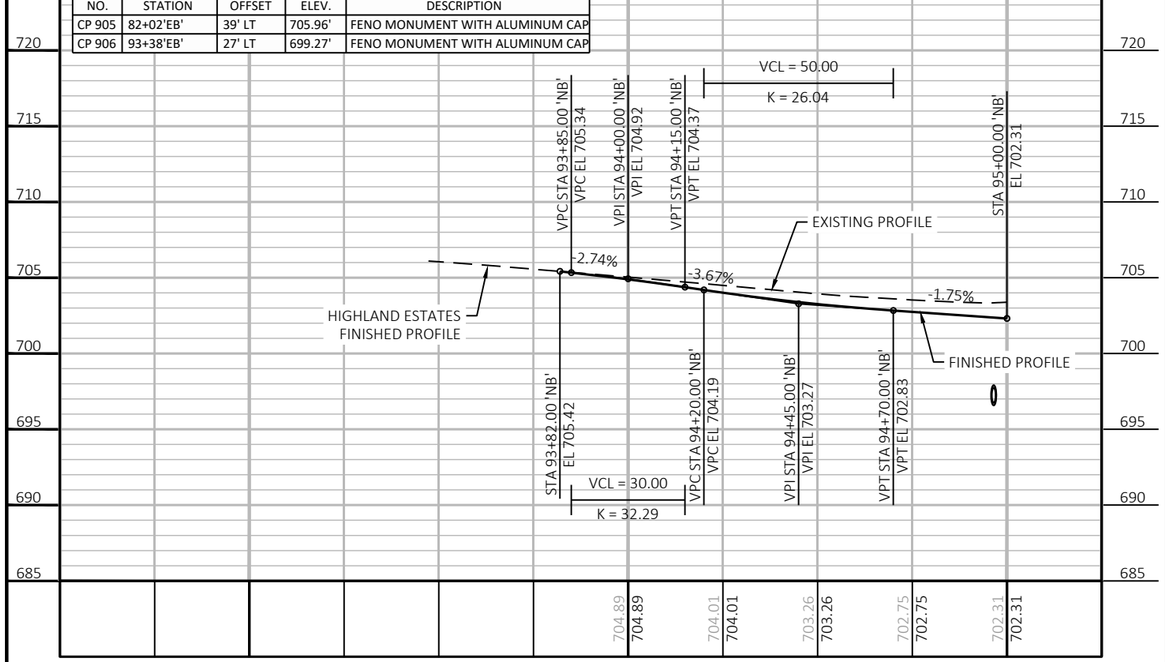
WE ENERGIES (ELEC)
AT&T AND SPECTRUM (COMM)
VILLAGE OF PLEASANT PRAIRIE (WATER)
VILLAGE OF PLEASANT PRAIRIE (SANITARY)

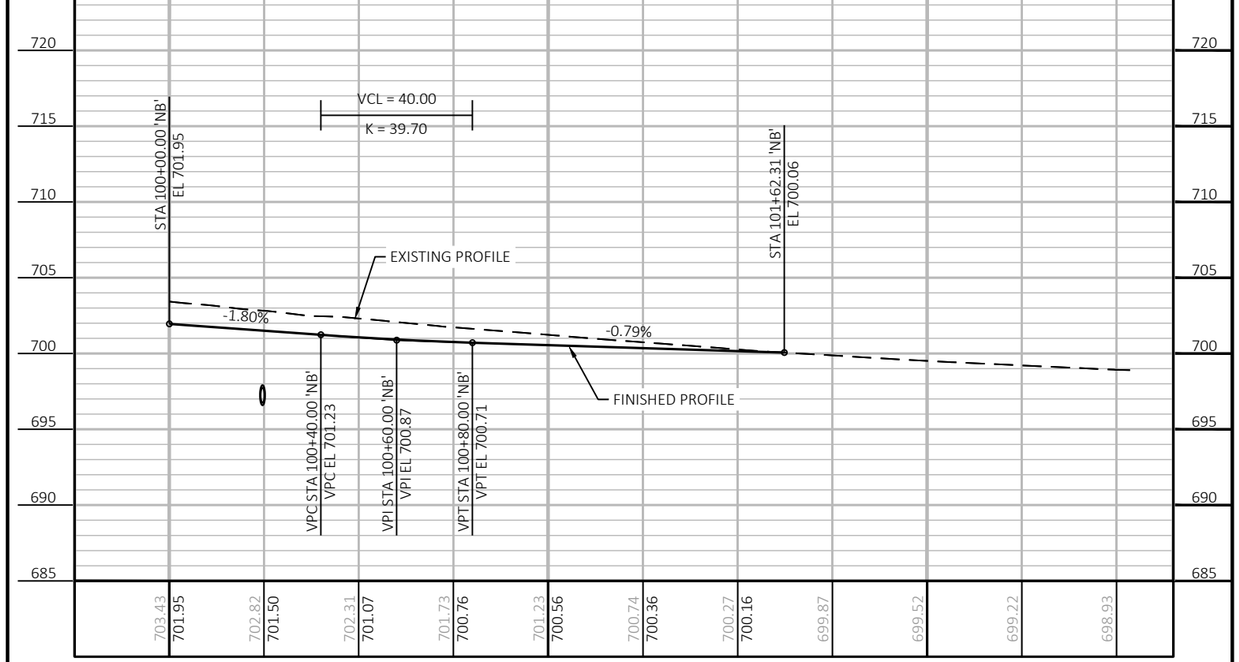
ARBOR ESTATES GROUP LLC | ARBOR ESTATES GROUP LLC | DALE C WELLMAN | RYAN M LAWLER

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BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
CP 905	82+02'EB'	39' LT	705.96'	FENO MONUMENT WITH ALUMINUM CAP
CP 906	93+38'EB'	27' LT	699.27'	FENO MONUMENT WITH ALUMINUM CAP





PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN AND PROFILE: 51ST AVENUE NORTHBOUND	SHEET 144	E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\050102-PP.DWG
LAYOUT NAME - PP-9
PLOT DATE : 7/20/2026 2:20 PM
PLOT BY : KUSCHEL, LEVI
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

ARBOR ESTATES GROUP LLC

SALVADOR GUZMAN HERNANDEZ

ERIC DEROHAN

ANDREW CISKOWSKI

PENNY L DARRACOTT

N

STA 94+40'SB' LT
CONSTRUCT PE(GRAVEL/CONCRETE)

EXISTING P.L. (TYP)

EXISTING R/W

PROPOSED TLE

SLOPE INTERCEPT

93RD ST

PROPOSED R/W

VILLAGE OF PLEASANT PRAIRIE (WATER)

PROPOSED TLE

STA 100+78'SB' LT
CONSTRUCT PE
(ASPHALT/CONCRETE)
SAWCUT REQ'D

STA 101+16'SB' LT
CONSTRUCT PE
(ASPHALT/CONCRETE)
SAWCUT REQ'D

EXISTING R/W

SLOPE INTERCEPT

COOPER RD

94'SB'

94'NB'

95'SB'

95'NB'

101'SB'

101'NB'

102'NB'

CAUTION

11'RA'

PROPOSED R/W

SLOPE INTERCEPT

WE ENERGIES (ELEC)
AT&T AND SPECTRUM (COMM)

VILLAGE OF PLEASANT PRAIRIE (WATER)

VILLAGE OF PLEASANT PRAIRIE (SANITARY)

PROPOSED TLE

SLOPE INTERCEPT

EXISTING R/W

WE ENERGIES (ELEC)
TDS TELECOM, AT&T, AND SPECTRUM (COMM)

PROPOSED TLE

PROPOSED TLE

WE ENERGIES (GAS)

EXISTING R/W

93RD ST

ARBOR ESTATES GROUP LLC

ARBOR ESTATES GROUP LLC

DALE C WELLMAN

RYAN M LAWLER

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BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
CP 905	82+02'EB'	39' LT	705.96'	FENO MONUMENT WITH ALUMINUM CAP
CP 906	93+38'EB'	27' LT	699.27'	FENO MONUMENT WITH ALUMINUM CAP

VPC STA 93+85.00 'SB'
VPC EL 705.33

VPI STA 94+00.00 'SB'
VPI EL 705.01

VPT STA 94+15.00 'SB'
VPT EL 704.47

VCL = 50.00
K = 27.78

STA 95+03.15 'SB'
EL 702.39

EXISTING PROFILE

-2.19%

-3.55%

-1.75%

HIGHLAND ESTATES
FINISHED PROFILE

FINISHED PROFILE

STA 93+82.00 'SB'
EL 705.40

VCL = 30.00
K = 22.03

VPC STA 94+20.00 'SB'
VPC EL 704.30

VPI STA 94+45.00 'SB'
VPI EL 703.41

720 715 710 705 700 695 690 685

704.95 704.95 704.12 704.12 703.39 703.39 702.88 702.88 702.45 702.45

93'SB' 94'SB' 95'SB'

STA 100+03.67 'SB'
EL 702.03

VCL = 40.00
K = 39.49

STA 101+54.65 'SB'
EL 700.12

EXISTING PROFILE

-1.90%

-0.89%

FINISHED PROFILE

VPC STA 100+40.00 'SB'
VPC EL 701.34

VPI STA 100+60.00 'SB'
VPI EL 700.96

VPT STA 100+80.00 'SB'
VPT EL 700.79

720 715 710 705 700 695 690 685

703.14 701.63 702.53 701.17 701.90 700.83 701.34 700.61 700.77 700.39 700.27 700.16

100'NB' 101'NB' 102'NB'

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN AND PROFILE: 51ST AVENUE SOUTHBOUND	SHEET 145 E

FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\050102-PP.DWG
LAYOUT NAME - PP-10

PLOT DATE : 7/20/2026 2:20 PM

PLOT BY : KUSCHEL, LEVI

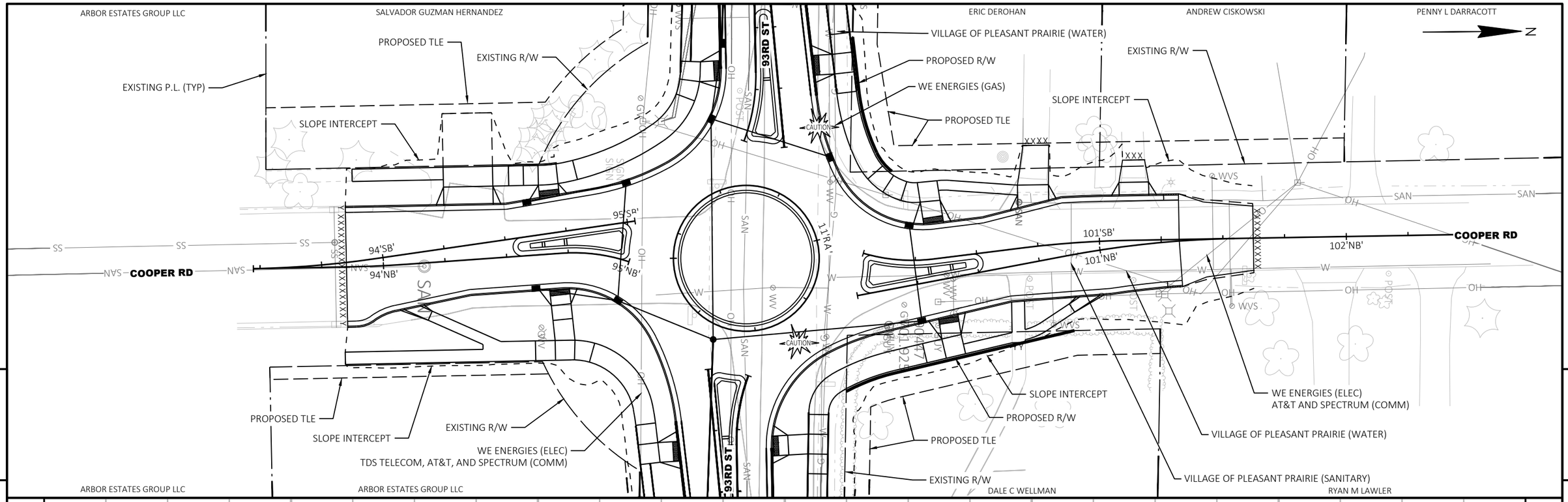
PLOT NAME :

PLOT SCALE : 1 IN:40 FT

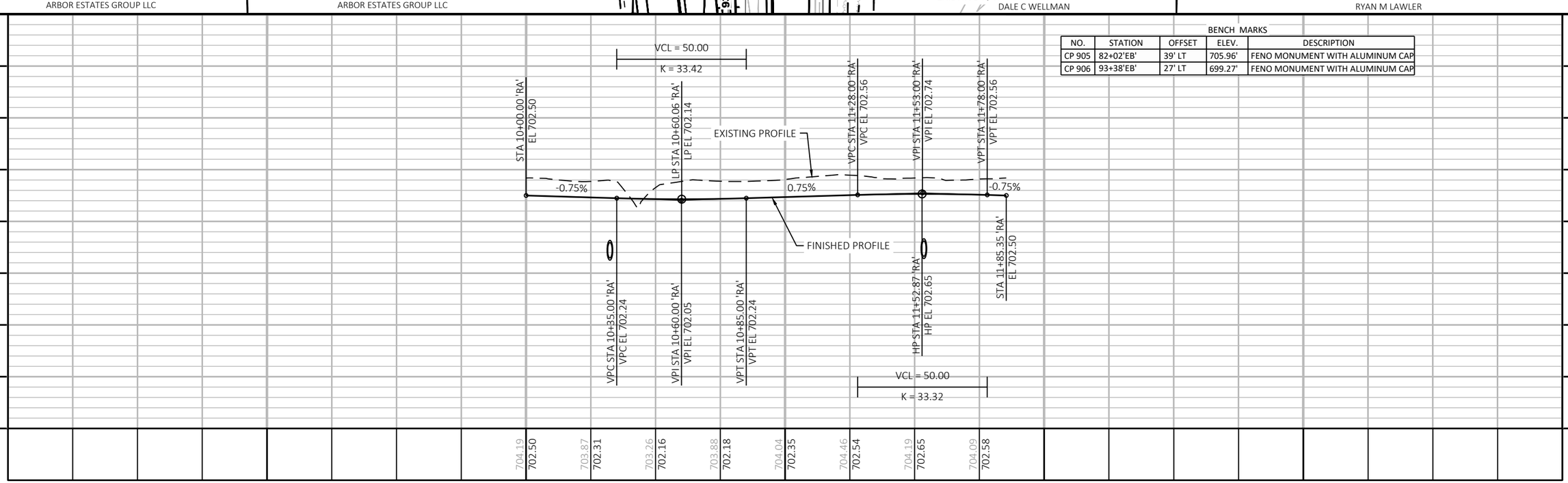
WISDOT/CADDS SHEET 44

ARBOR ESTATES GROUP LLC | SALVADOR GUZMAN HERNANDEZ | ERIC DEROHAN | ANDREW CISKOWSKI | PENNY L DARRACOTT

ARBOR ESTATES GROUP LLC | ARBOR ESTATES GROUP LLC | DALE C WELLMAN | RYAN M LAWLER



5 5



BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
CP 905	82+02'EB'	39' LT	705.96'	FENO MONUMENT WITH ALUMINUM CAP
CP 906	93+38'EB'	27' LT	699.27'	FENO MONUMENT WITH ALUMINUM CAP

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	PLAN AND PROFILE: 93RD ROUNDABOUT CIRCLE	SHEET 146 E

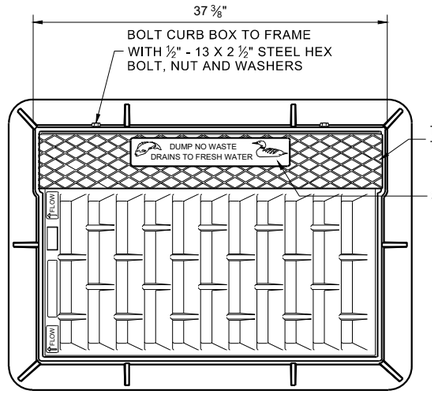
FILE NAME : I:\47\470445 93RD STREET\C3D\SHEETS\050102-PP.DWG
LAYOUT NAME - PP-11

PLOT DATE : 7/20/2026 2:20 PM | PLOT BY : KUSCHEL, LEVI | PLOT NAME : | PLOT SCALE : 1 IN:40 FT

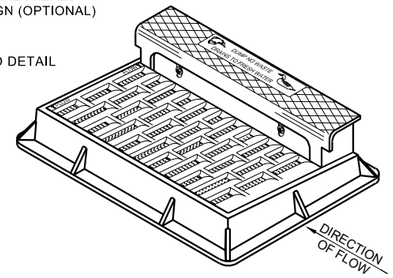
Standard Detail Drawing List

08A05-22A	INLET COVERS TYPE A, H, A-S, H-S AND Z
08A05-22B	INLET COVERS TYPE B, B-A, C, MS, MS-A, DW AND WM
08A05-22C	INLET COVERS TYPE F, HM, HM-S, S, T, HM-GJ AND HM-GJ-S
08A05-22E	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L AND M
08B09-04	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER
08C06-03	INLETS 3-FT AND 4-FT DIAMETER
08C07-03	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT, 2.5X3-FT & 2X3.5-FT
08C08-03	INLETS MEDIAN 1 AND 2 GRATE
08D01-24A	CONCRETE CURB AND GUTTER
08D01-24B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-07	CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES
08D05-23A	CURB RAMPS TYPES 1 AND 1-A
08D05-23B	CURB RAMPS TYPES 2 AND 3
08D05-23C	CURB RAMPS TYPES 4A AND 4A1
08D05-23D	CURB RAMPS TYPES 4B AND 4B1
08D05-23E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-23F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD
08D05-23G	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 TYPES A, B, C AND D
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
09A11-01	DRIVEWAY AND SIDEWALK RAMPS TYPES X AND Y
09A12-01	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
11B02-02	CONCRETE MEDIAN NOSE
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-15A	RURAL DOWELED CONCRETE PAVEMENT
13C11-15B	RURAL DOWELED CONCRETE PAVEMENT
13C13-11	URBAN DOWELED CONCRETE PAVEMENT
13C18-08A	CONCRETE PAVEMENT JOINTING
13C18-08B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-08C	CONCRETE PAVEMENT JOINT TYPES
13C18-08D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-08E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
13C18-08F	CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER
13C19-03	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
15C02-10A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-10B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-10C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-24A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C11-11B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C12-09B	TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE
15C18-09B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D46-01	TRAFFIC CONTROL, ONE - WAY SIGNING

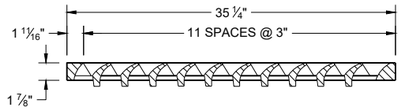
6

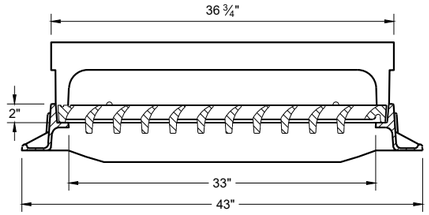


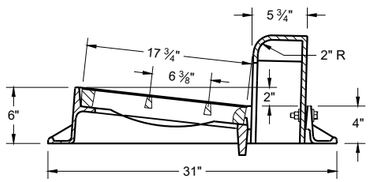
NOTE: EITHER CASTING IS ACCEPTABLE

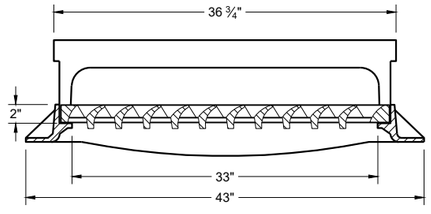


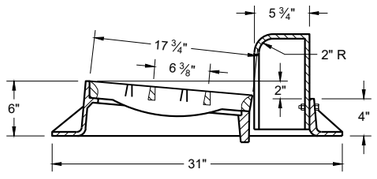
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"







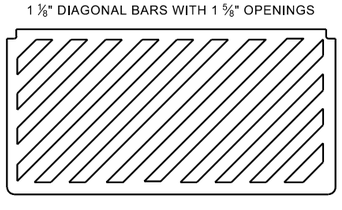




TYPE "H"

NOTE: EITHER CASTING IS ACCEPTABLE

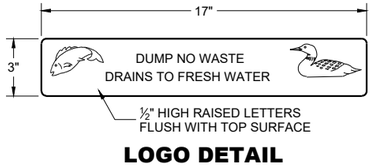
1 ⅛" DIAGONAL BARS WITH 1 ⅝" OPENINGS



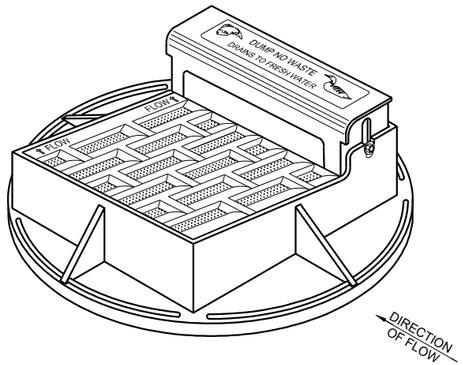
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35" X 17 ¾" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

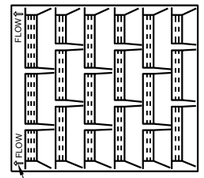


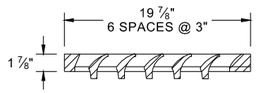
LOGO DETAIL

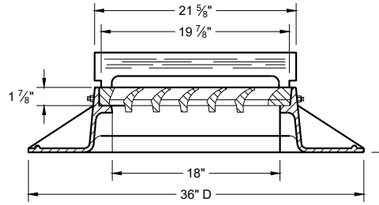


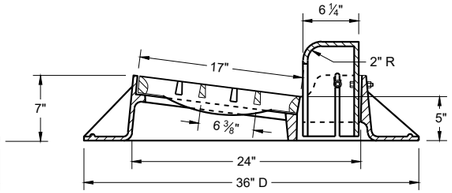
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

NOTE: EITHER CASTING IS ACCEPTABLE









TYPE "A"

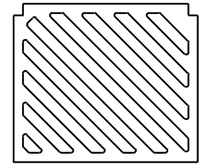
GENERAL NOTES

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.

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.

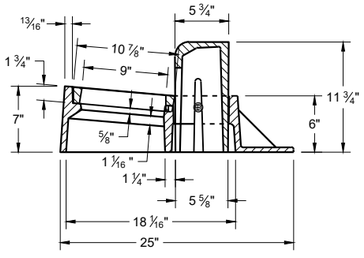
1" DIAGONAL BARS
WITH 1 ½" OPENINGS

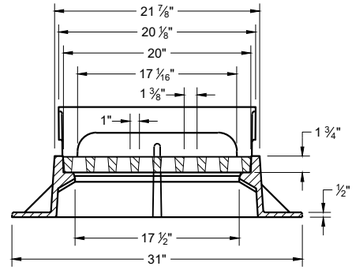


SPECIAL GRATE FOR TYPE "A" COVER

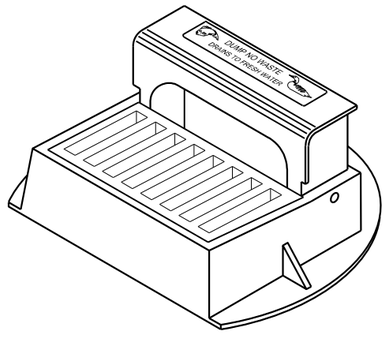
(MEASURES 19 ¾" X 17" X 1 ⅞")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"



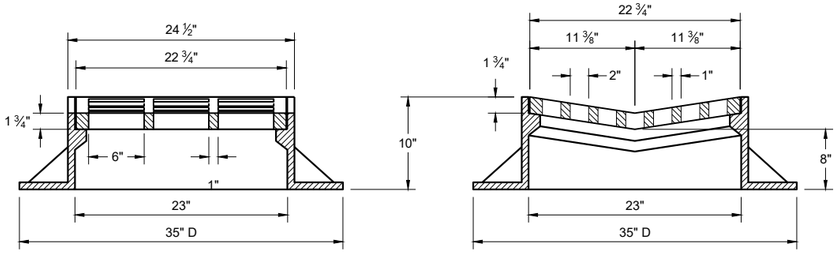
INLET COVERS
TYPES A, H, A-S, H-S AND Z

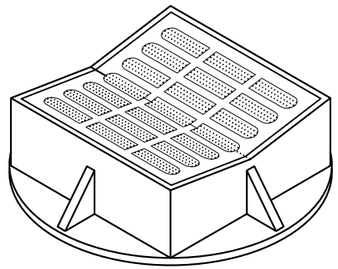
STATE OF WISCONSIN
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DATE

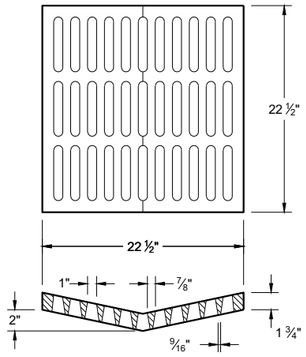
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

FHWA





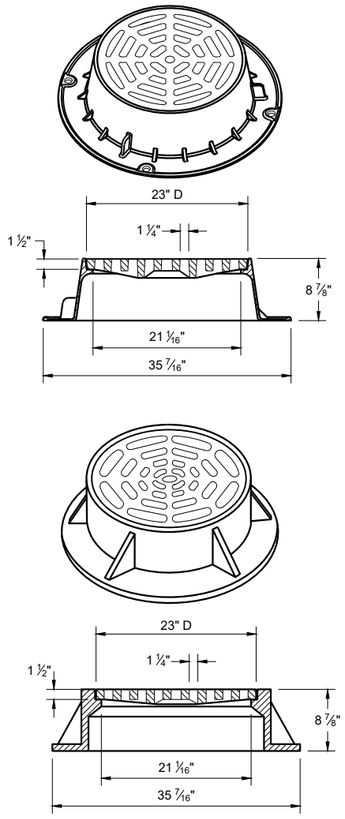
TYPE "B"



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"

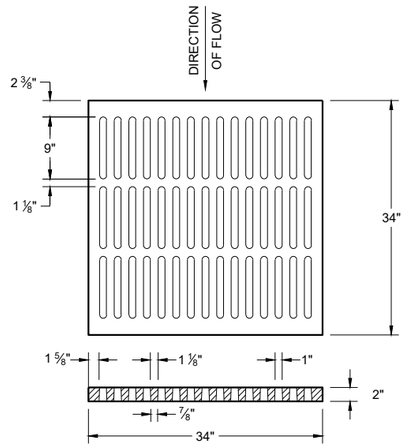
NOTE: EITHER CASTING IS ACCEPTABLE

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.

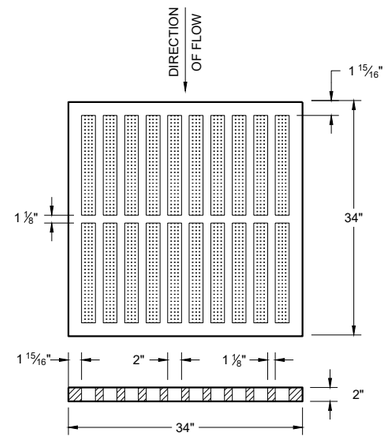
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS PERMITTED

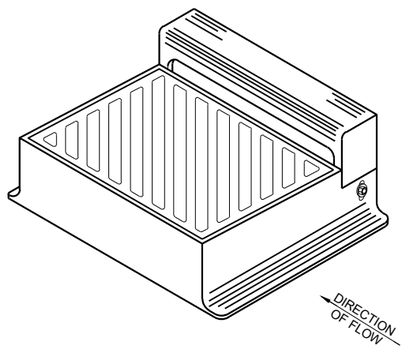
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



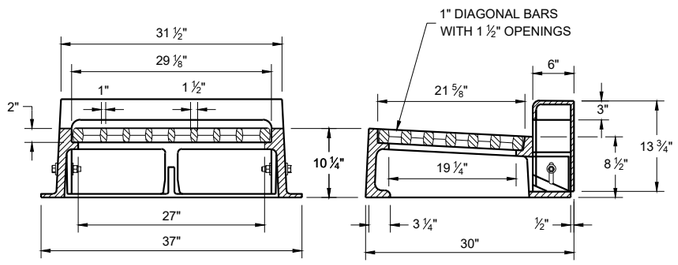
TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON THE DRAINAGE TABLE

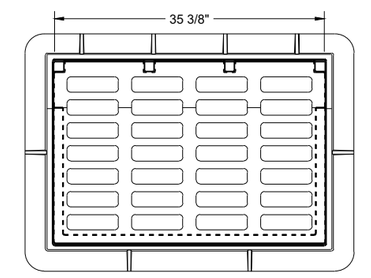


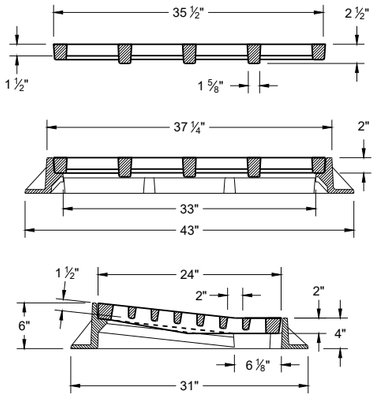
DIAGONAL SLOTS SHALL BE ORIENTEDTO THE DIRECTION OF FLOW AS ILLUSTRATED.
GRATES ARE MANUFACTURED TO BE REVERSIBLE.

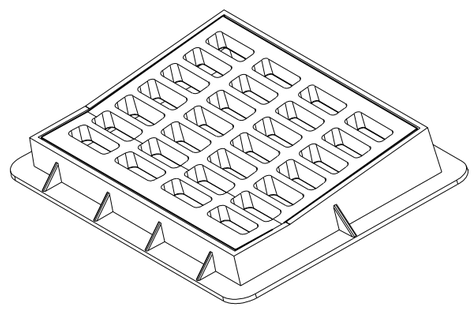


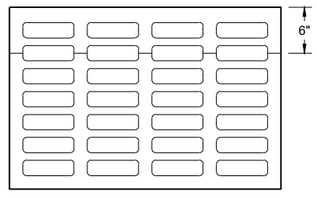
TYPE "WM"

NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"









TYPE "DW"

NOTES: FOR USE IN A SUMP CONDITION. THIS OPTION IS ONLY TO BE USED IF NO OTHER INLETS ARE APPLICABLE.

INLET COVERS
TYPES B, B-A, C,
MS, MS-A ,DW AND WM

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FHWA

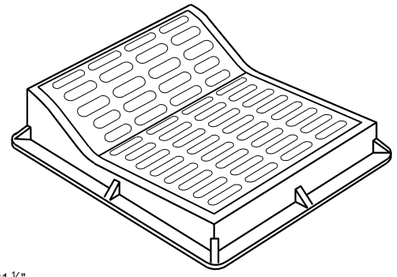
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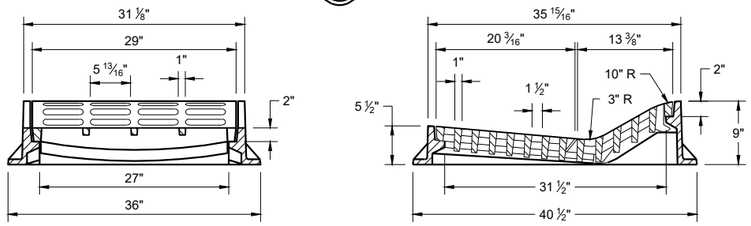
SDD 08A05-22b

GENERAL NOTES

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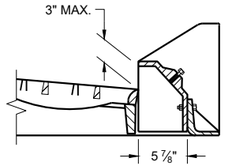
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.





TYPE "F"

USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"

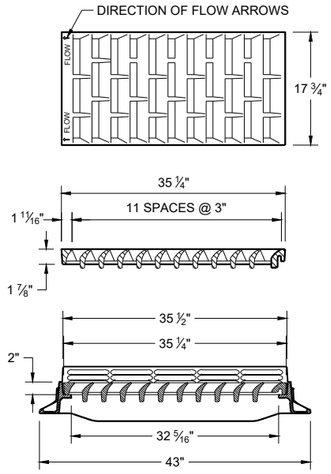


ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

USE WITH TYPES "G" AND "J" CONCRETE CURB AND GUTTER, 30 INCH
NOTED AS TYP "HM-GJ" ON DRAINAGE TABLE

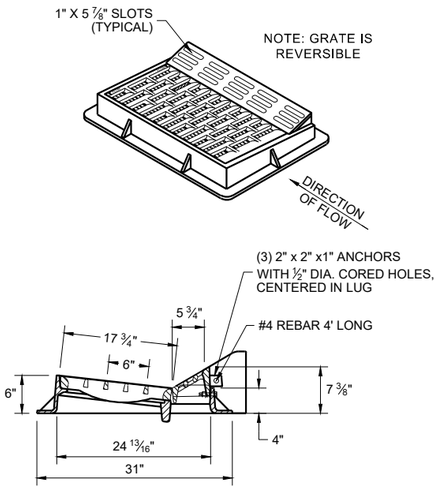
NOTE:
SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.



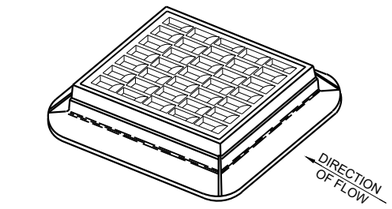
TYPE "HM"

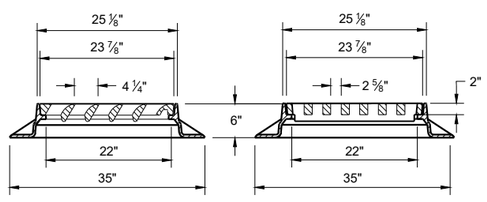
USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"



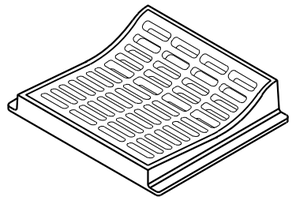
NOTE:
SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

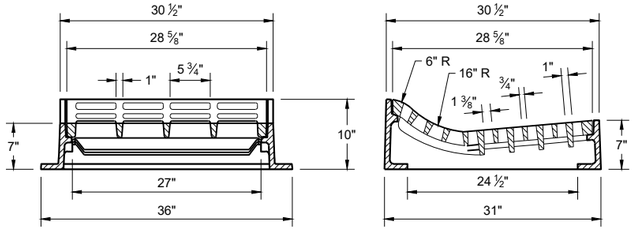
NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.





TYPE "S"





TYPE "T"

USE WITH TYPES "R" AND "T" CONCRETE CURB AND GUTTER, 36"

INLET COVERS
TYPES F, HM, HM-S, S, T, HM-GJ AND HM-GJ-S

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DEPARTMENT OF TRANSPORTATION

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/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

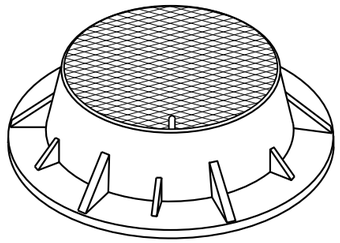
6
SDD 08A05-22c

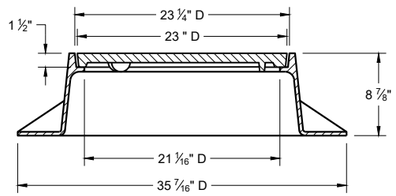
GENERAL NOTES

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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.

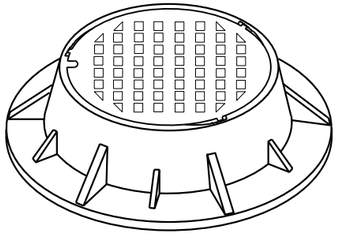
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

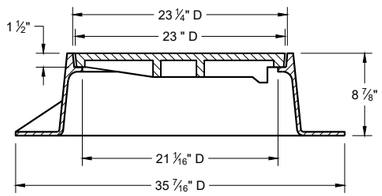




TYPE "J"

NOTE: EITHER CASTING IS ACCEPTABLE

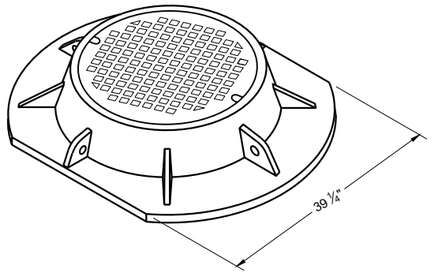


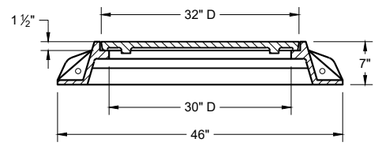


TYPE "J" SPECIAL

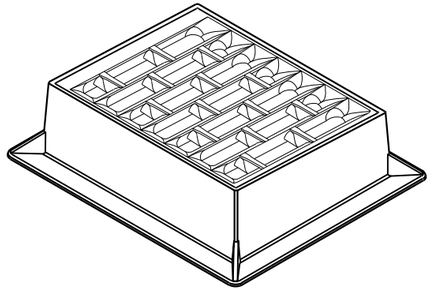
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

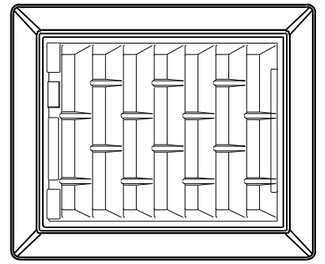
NOTE: EITHER CASTING IS ACCEPTABLE

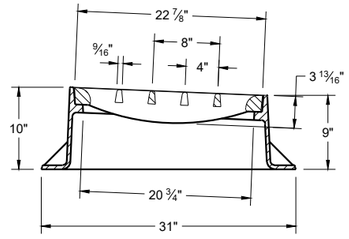


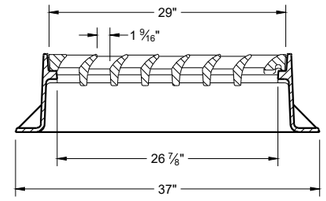


TYPE "K"

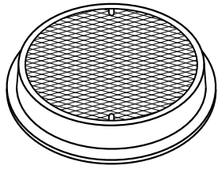


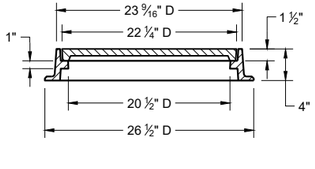




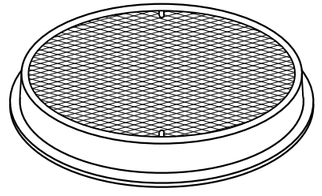


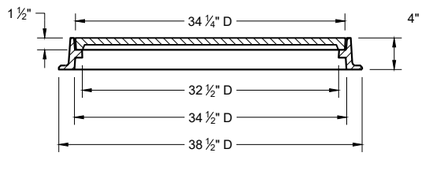
INLET COVER TYPE "BW"





TYPE "L"





TYPE "M"

INLET COVERS TYPES BW
MANHOLE COVERS TYPES K, J, J-S, L, AND M

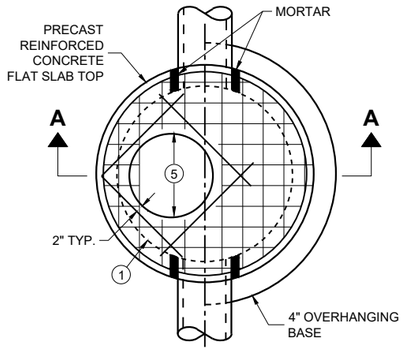
STATE OF WISCONSIN
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APPROVED
February 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

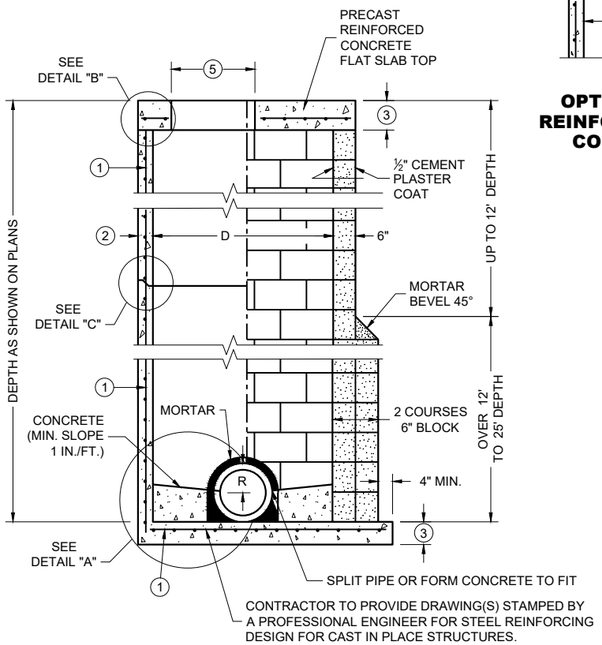
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SDD 08A05-22e



PLAN VIEW

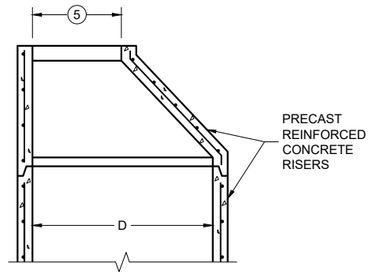
CIRCULAR OPENING



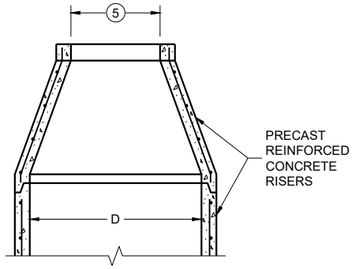
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

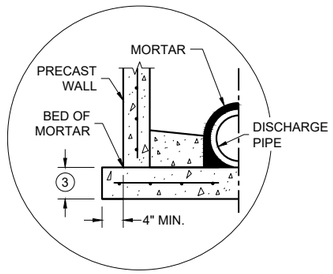
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)



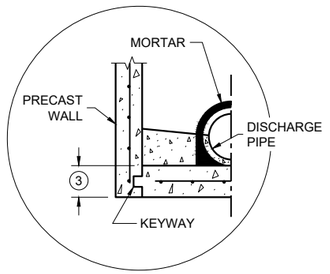
OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

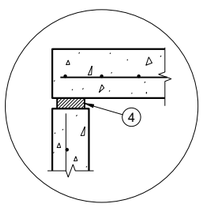


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

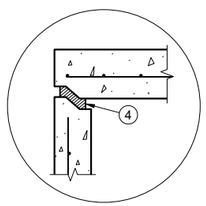


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

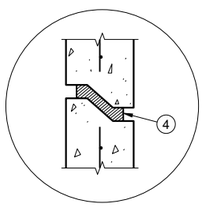
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

DETAIL "C"

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.

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".

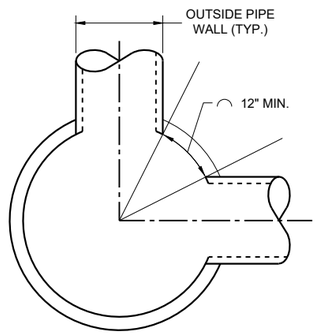
(1) FOR PRECAST MANHOLES AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(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"

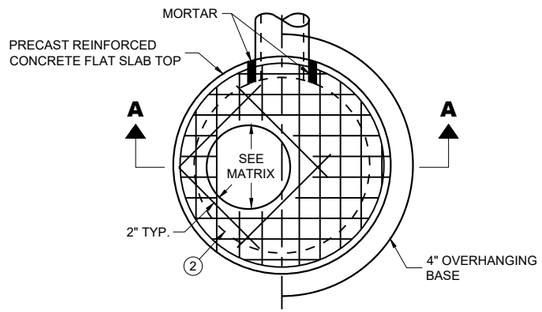
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

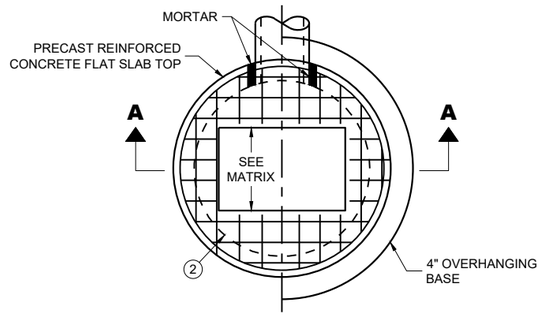
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

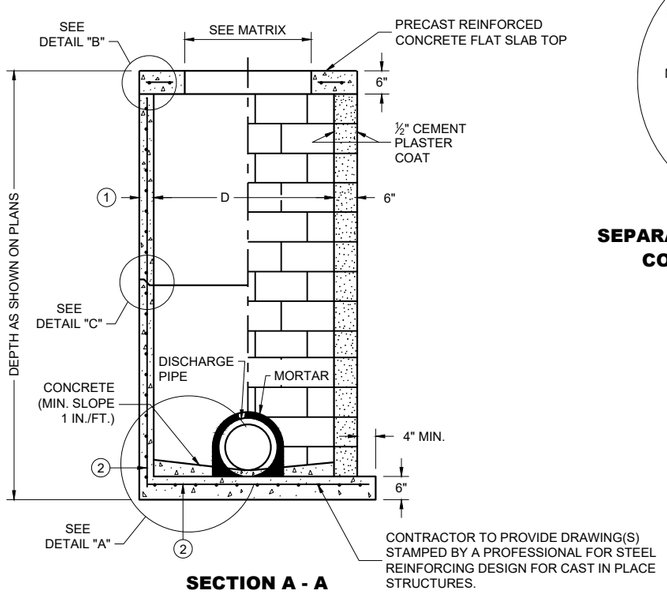
FHWA



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)

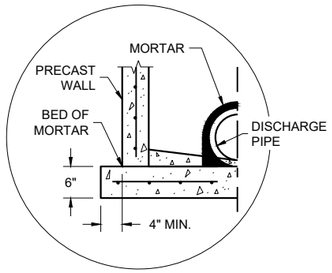
CIRCULAR INLETS WITH FLAT TOP

CATCH BASIN COVER OPENING MATRIX

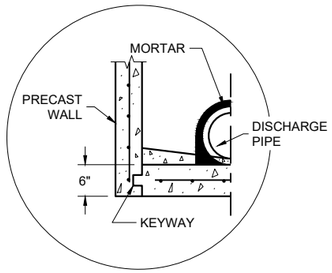
INLET SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V V-B	WM	Z
	OPENING SIZE (FT.)											
3-FT	2 DIA.				X							X
	2 X 2	X	X					X		X		
4-FT	2 DIA.				X							X
	2 X 2	X	X					X		X		
	2 X 2.5			X				X	X	X	X	
	2 X 3						X					
	2.5 X 3					X						

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

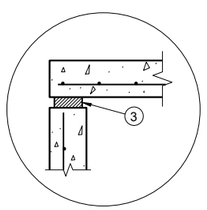


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

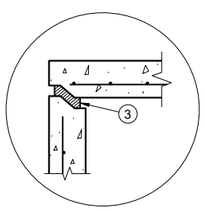


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

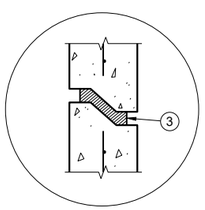
DETAIL "A"



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.

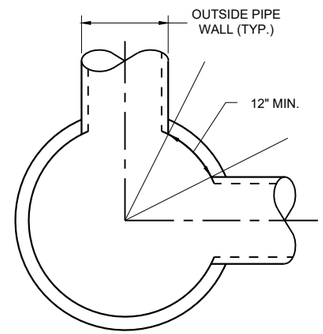
4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

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"

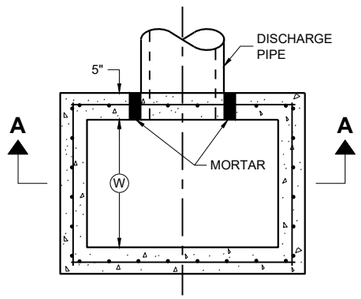
INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

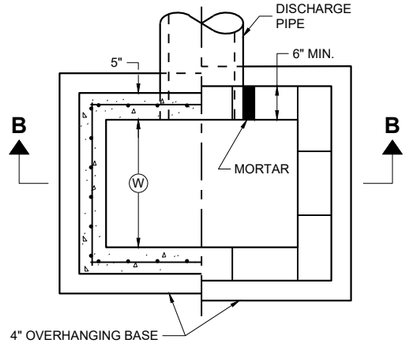
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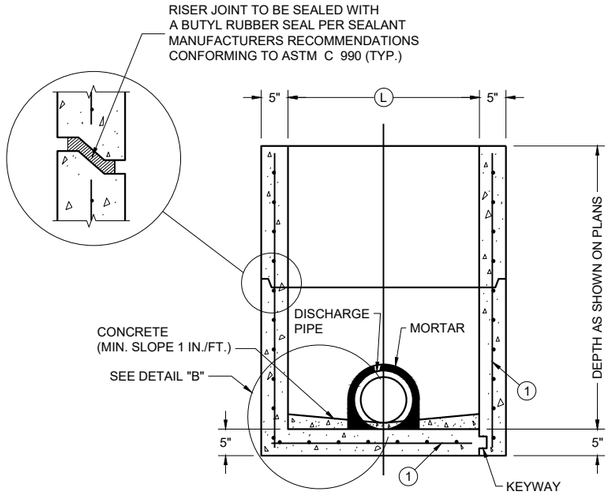
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PLAN VIEW



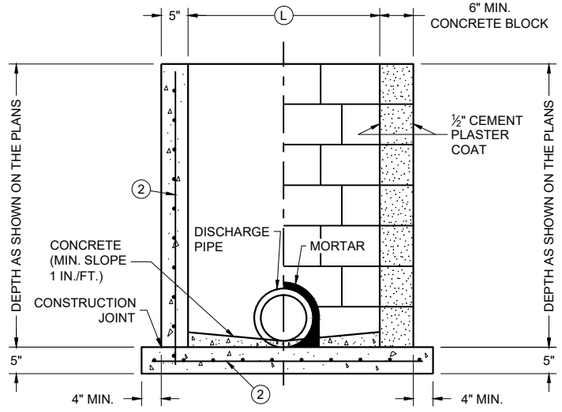
PLAN VIEW



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

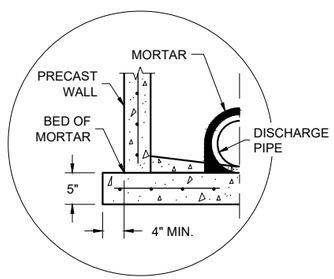
SECTION A - A



CAST IN PLACE REINFORCED CONCRETE

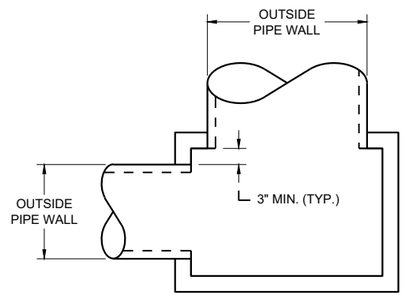
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)

SECTION B - B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "B"



DETAIL "A"

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 UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES 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.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND 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 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.

CATCH BASIN COVER MATRIX

INLET SIZE	WIDTH (W) (FT.)	LENGTH (L) (FT.)	INLET COVER TYPE									
			ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM	V V-B
2 X 2-FT	2	2	X	X				X				
2 X 2.5-FT	2	2.5			X			X	X	X	X	
2 X 3-FT	2	3					X					
2.5 X 3-FT	2.5	3				X						
2 X 3.5-FT	2	3.5										X

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2 X 2-FT	12	12
2 X 2.5-FT	12	18
2 X 3-FT	12	24
2.5 X 3-FT	18	24
2 X 3.5-FT	12	30

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2X3.5-FT

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2 X 3.5-FT

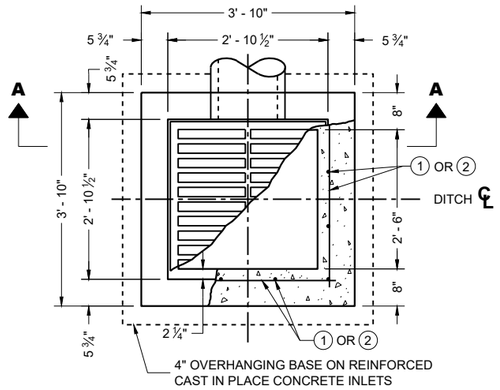
STATE OF WISCONSIN
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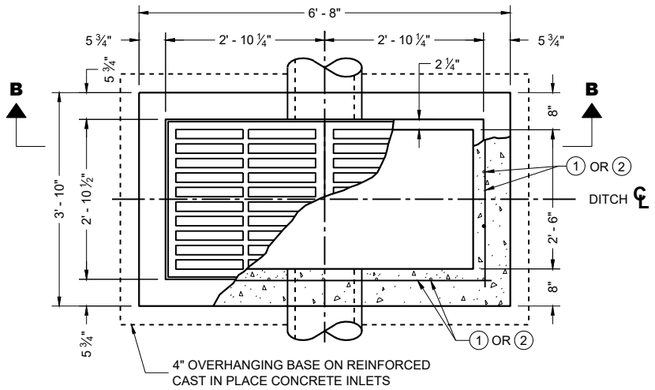
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

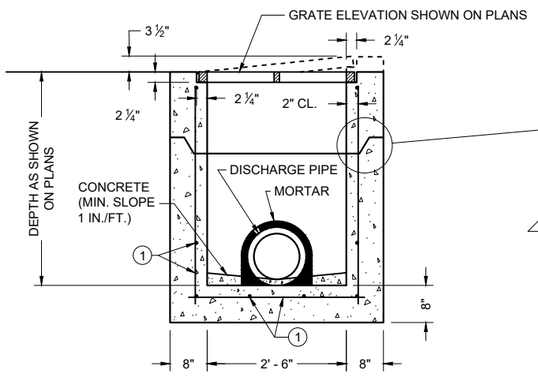
6
SDD 08C07-03



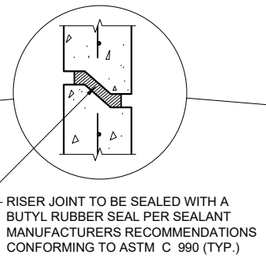
PLAN VIEW

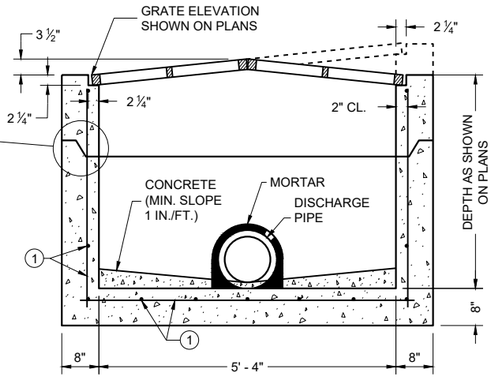


PLAN VIEW

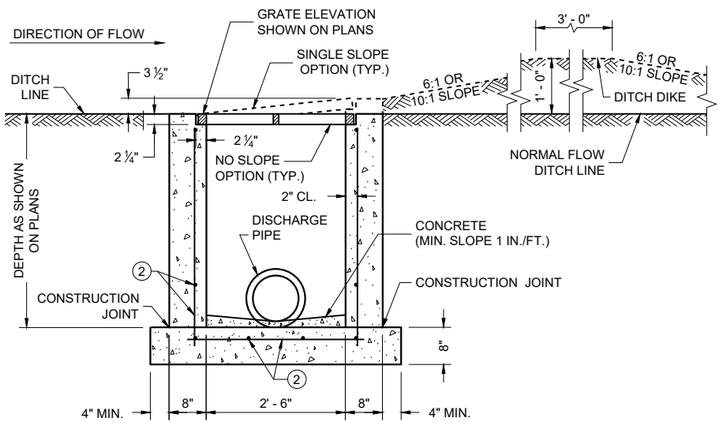


PRECAST REINFORCED CONCRETE SECTION A - A



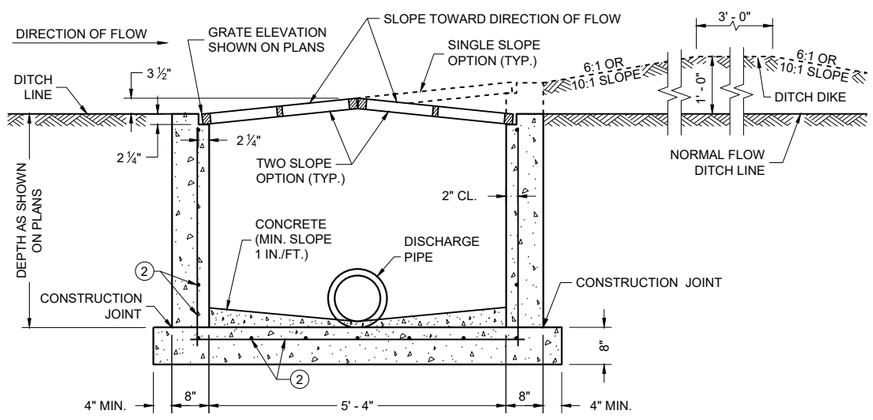


PRECAST REINFORCED CONCRETE SECTION B - B



REINFORCED CAST IN PLACE CONCRETE SECTION A - A

INLETS MEDIAN 1 GRATE



REINFORCED CAST IN PLACE CONCRETE SECTION B - B

INLETS MEDIAN 2 GRATE

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.

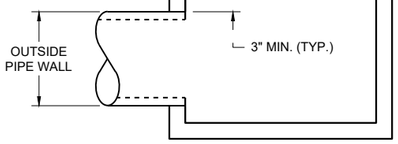
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

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

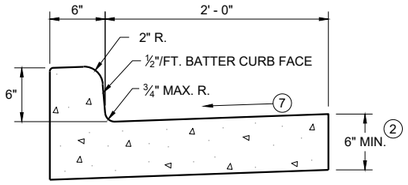
INLETS
MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

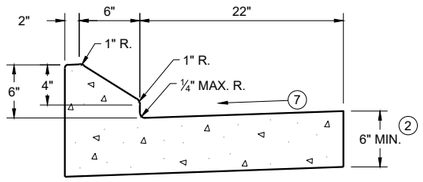
APPROVED
December 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

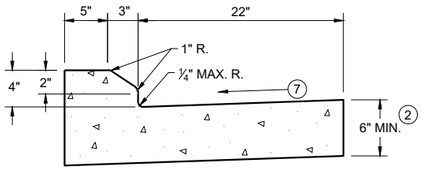
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SDD 08C08-03



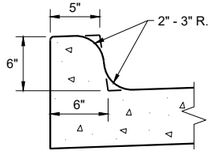
TYPES A (1) & D



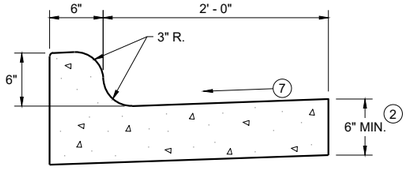
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

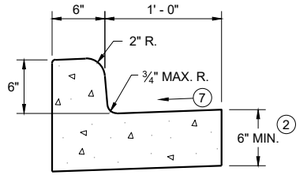


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



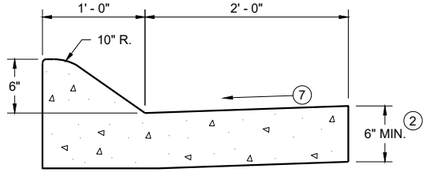
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

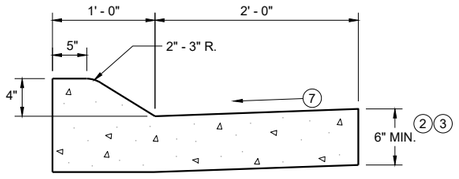


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

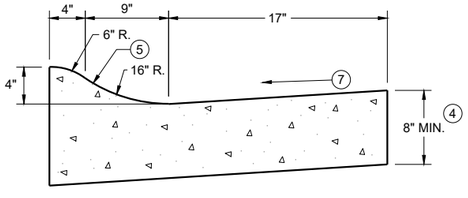


6" SLOPED CURB TYPES A (1) & D



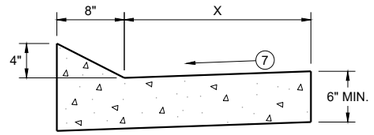
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T
CONCRETE CURB AND GUTTER 30"

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

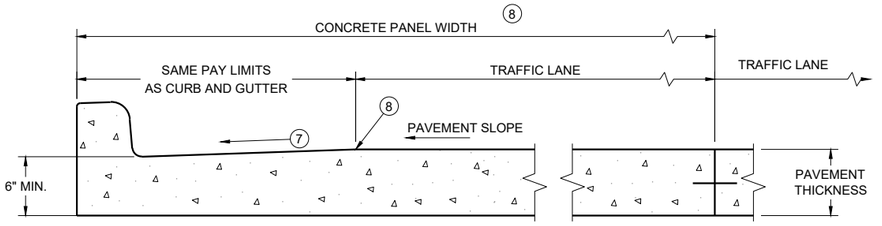


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

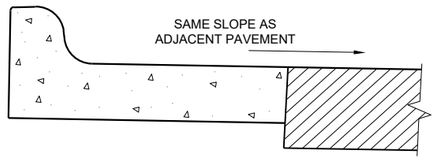
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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.

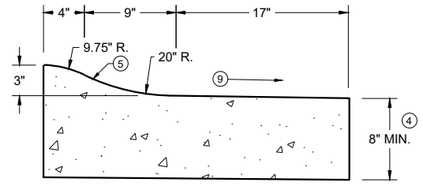
(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(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.

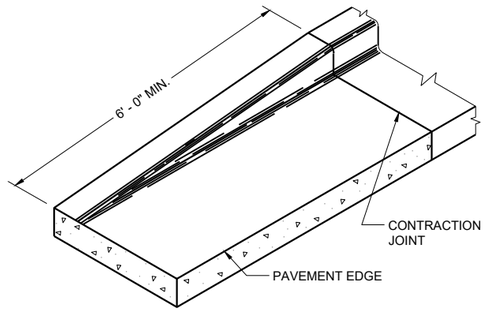
(9) SLOPE TO BE REVERSE SLOPE MATCHING THE SLOPE OF THE PAVEMENT AND THE CIRCULATORY ROADWAY



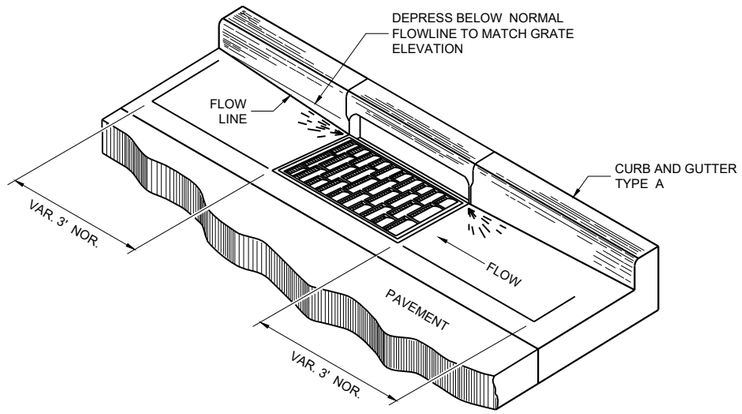
3" SLOPED CURB TYPES R (1) & T

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.

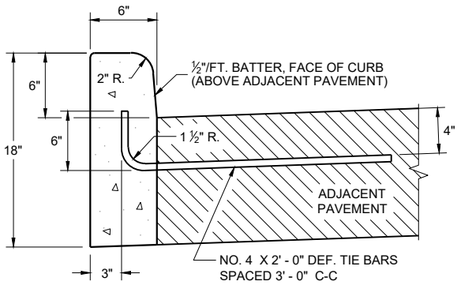
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

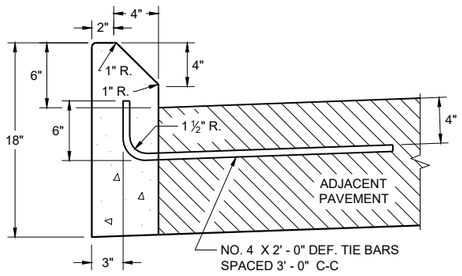
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(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.

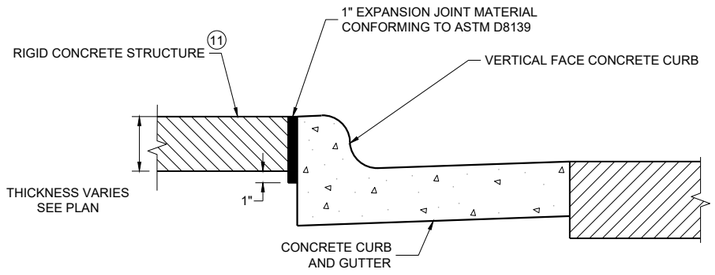


TYPES A (1) & D

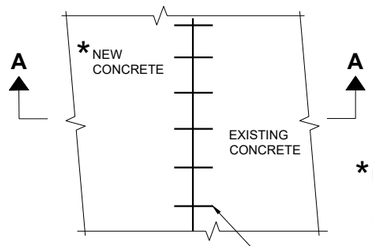


TYPES G (1) & J

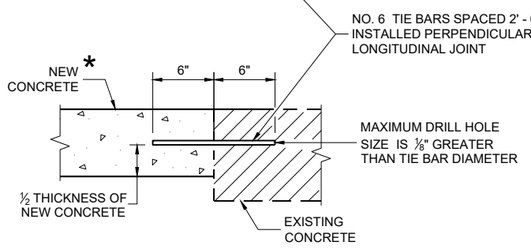
CONCRETE CURB



EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)

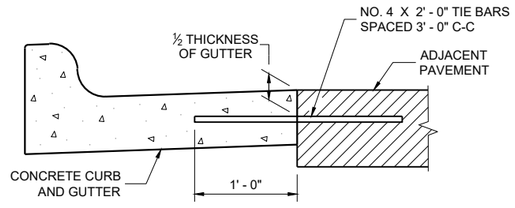


PLAN VIEW

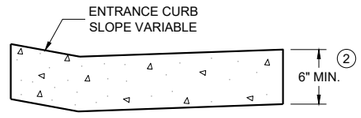


SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (10)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

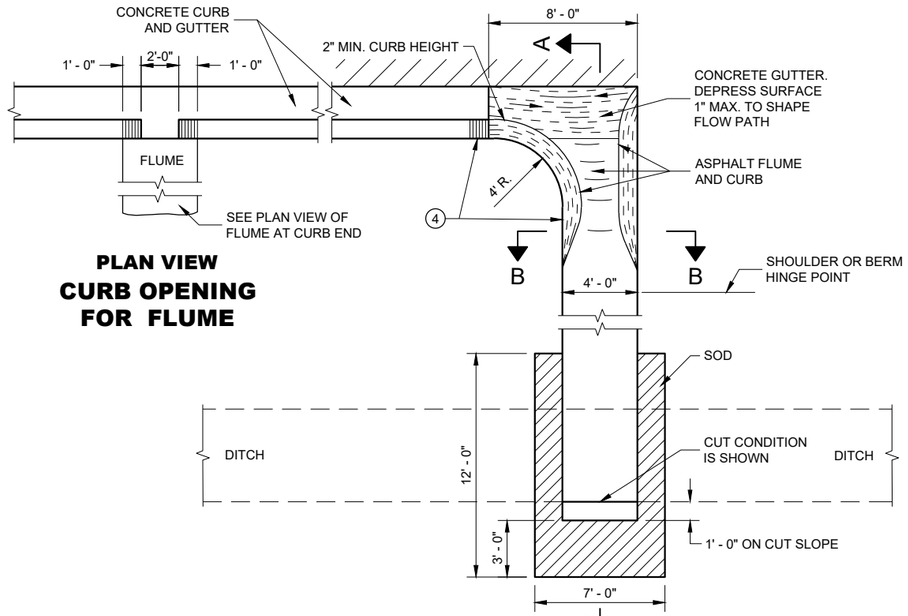
APPROVED
February 2025 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

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SDD 08D01-24b

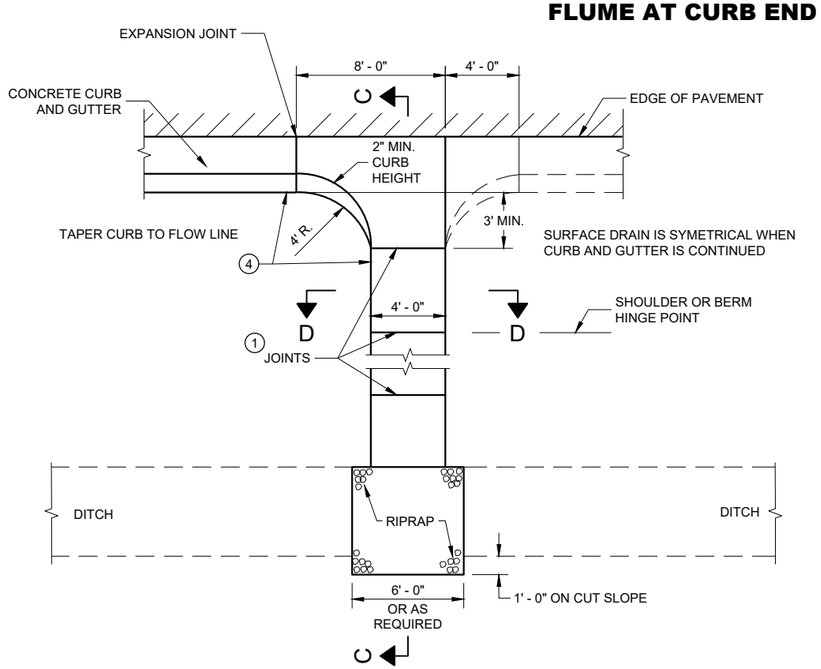
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



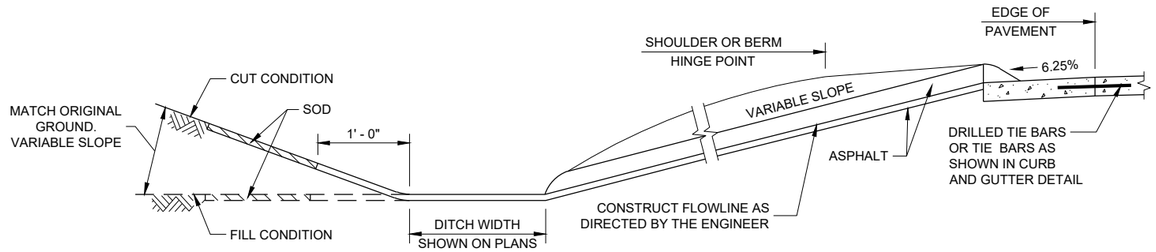
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

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

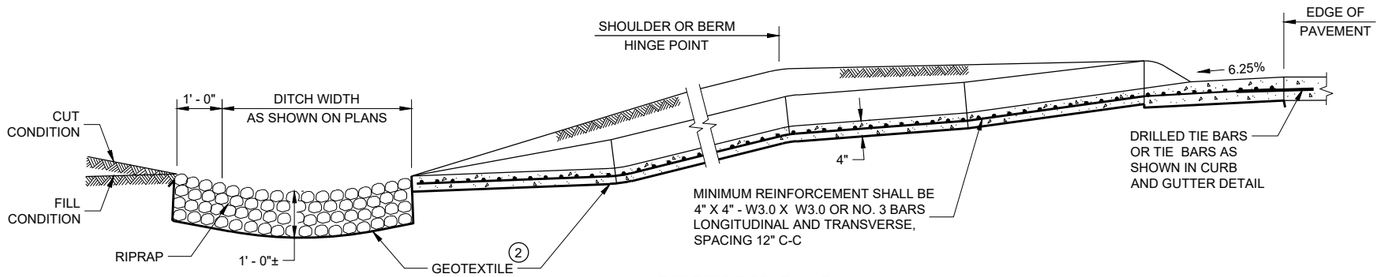
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.

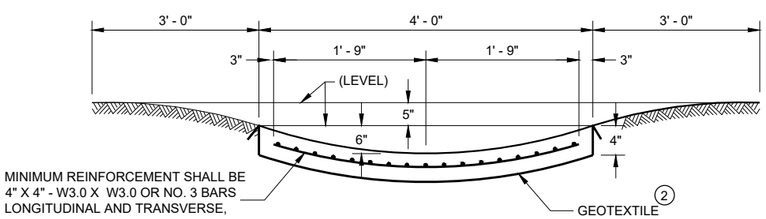


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

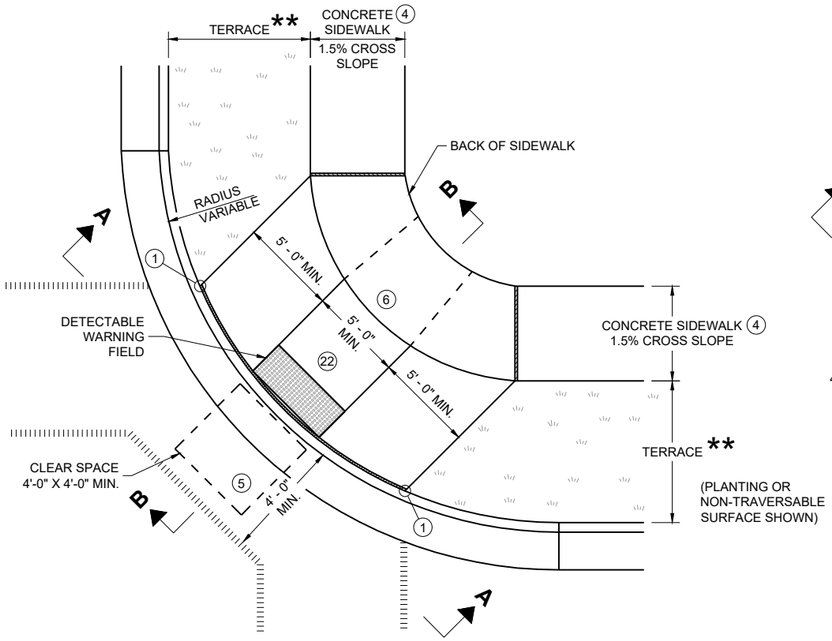
APPROVED
May 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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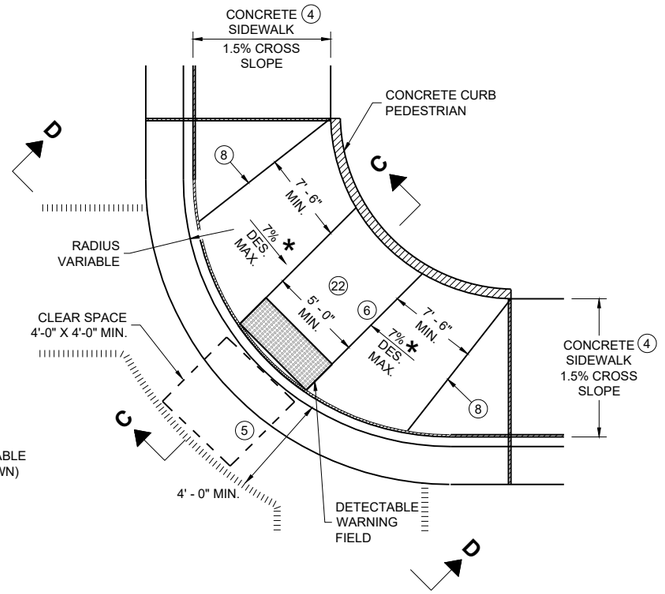
SDD 08D04 - 07



PLAN VIEW

CURB RAMP TYPE 1

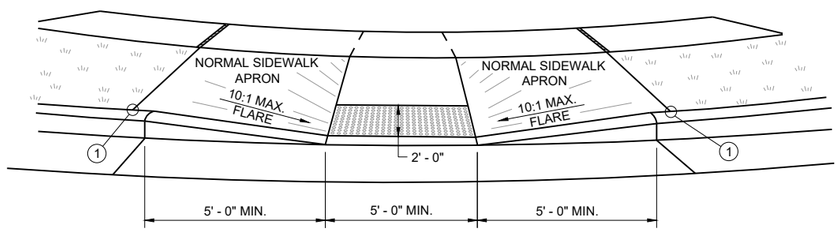
(CENTER OF CORNER RADIUS)



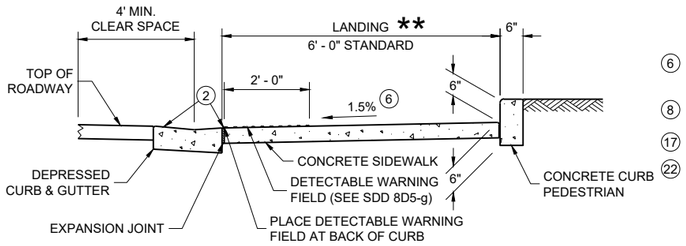
PLAN VIEW

CURB RAMP TYPE 1 - A

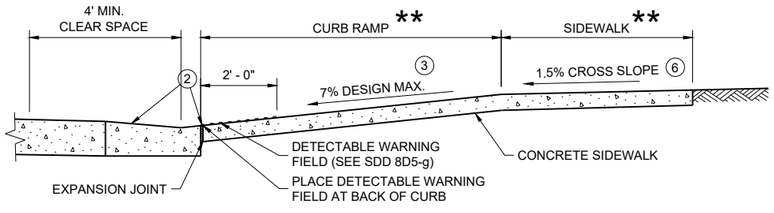
(NO TERRACE)



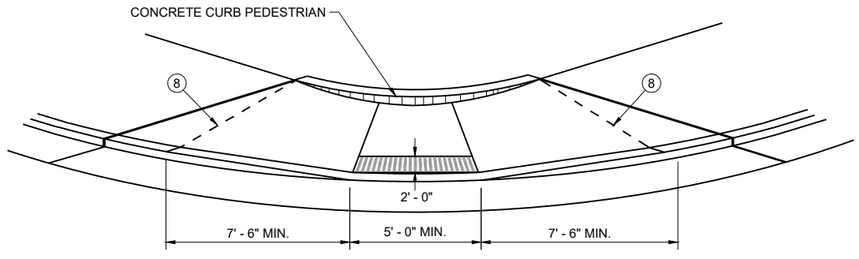
VIEW A - A FOR TYPE 1



SECTION C - C FOR TYPE 1 - A



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB 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 CURB RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF CURB 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 CURB 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 COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A CLEAR SPACE IN THE STREET AND GUTTER AREA. WHEN THE GUTTER CROSS SLOPE EXCEEDS 2.1%, CONSTRUCT THE CLEAR SPACE IN THE STREET AREA AND THE 4 FOOT WIDTH IS MEASURED FROM THE FLANGE LINE. FOR RECONSTRUCTION AND MODERNIZATION PROJECTS THE CLEAR SPACE SLOPE PARALLEL TO THE CURBLINE SHOULD BE 2.1% MAX FOR CROSSINGS THAT ARE STOP AND YIELD CONTROLLED, AND 5% MAX FOR THOSE THAT ARE SIGNAL CONTROLLED. FOR PERPETUATION AND REHABILITATION PROJECTS THE SLOPE OF THE CLEAR SPACE PARALLEL TO THE CURBLINE WILL MATCH THE ROADWAY LONGITUDINAL SLOPE. THE SLOPE OF THE CLEAR SPACE PERPENDICULAR TO THE CURBLINE WILL MATCH THE ROADWAY CROSS SLOPE BUT SHOULD NOT EXCEED 5% UNLESS THE ROADWAY IS SUPERELEVATED (WHEN SUPERELEVATED THE ROADWAY CROSS SLOPE SHOULD MATCH THE SUPERELEVATION).

(6) PROVIDE A 5 FOOT BY 5 FOOT LANDING. SLOPE PERPENDICULAR TO CURB SHALL BE 2.1% MAXIMUM. SLOPE PARALLEL TO CURB SHALL MATCH THE CURB AND GUTTER LONGITUDINAL SLOPE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

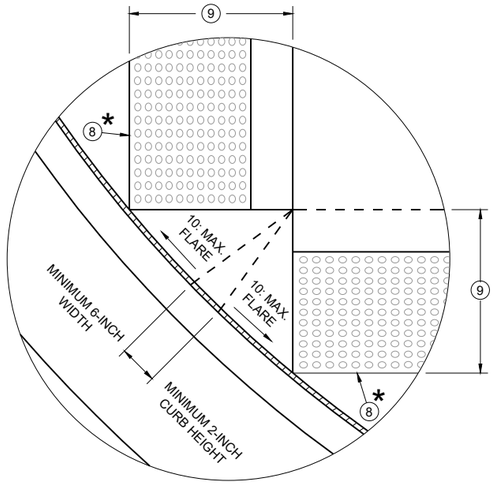
(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

LEGEND

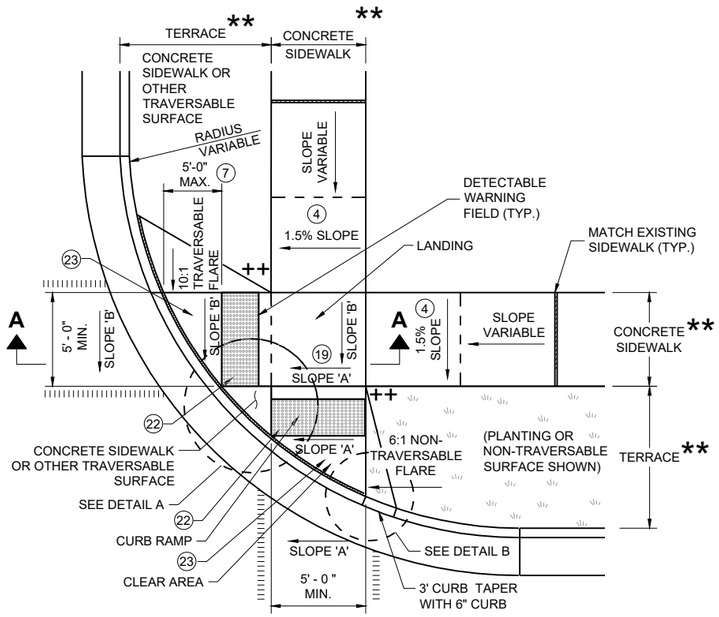
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- * MAXIMUM 8.3%
- ** WIDTH SHOWN ELSEWHERE IN THE PLANS

CURB RAMPS TYPE 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



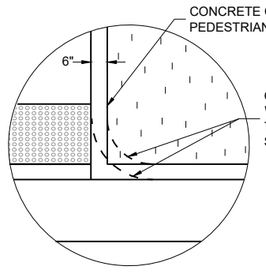
DETAIL A



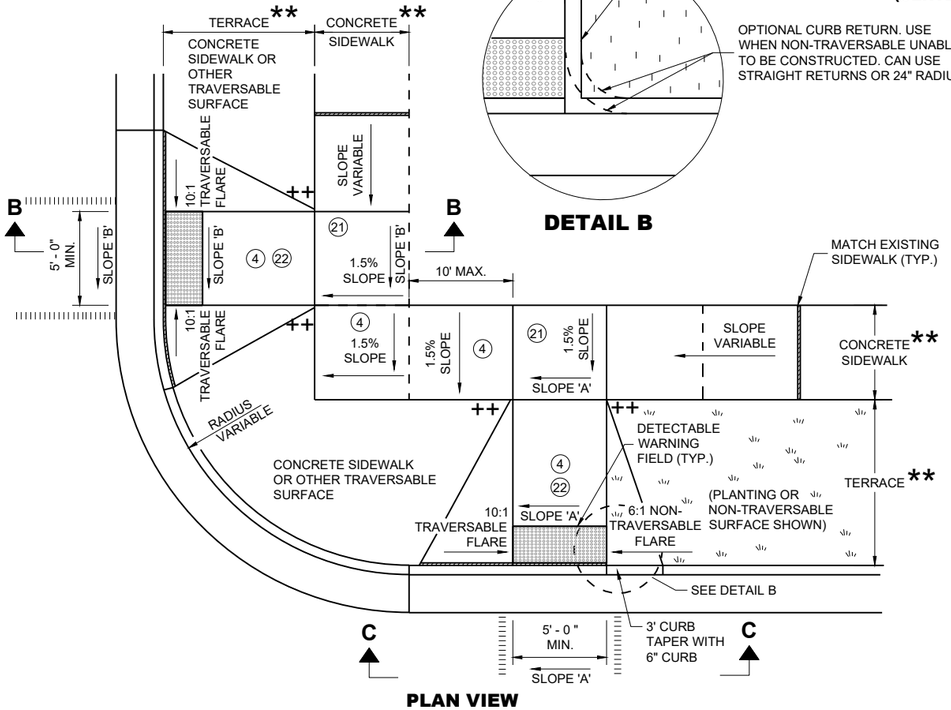
PLAN VIEW

CURB RAMP TYPE 2

(CENTER OF CORNER RADIUS)



DETAIL B



PLAN VIEW

CURB RAMP TYPE 3

(OUTSIDE OF CROSSWALK AREA)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB 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 COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(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% DESIGN MAXIMUM SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% DESIGN MAXIMUM SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

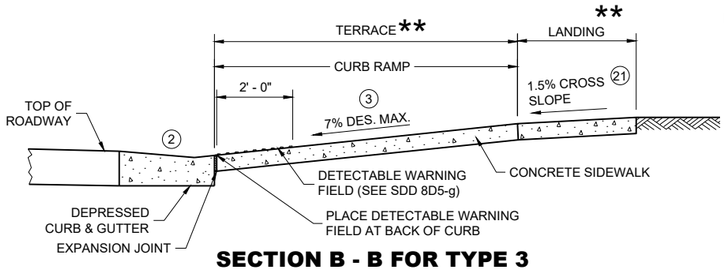
(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

(19) WHERE A LANDING SERVES TWO CURB RAMPS, THE LANDING SLOPE SHALL NOT EXCEED THE CROSS SLOPE AT THE BOTTOM OF THE RAMP OR WITHIN THE CROSSWALK PARALLEL TO THE DIRECTION OF TRAVEL.

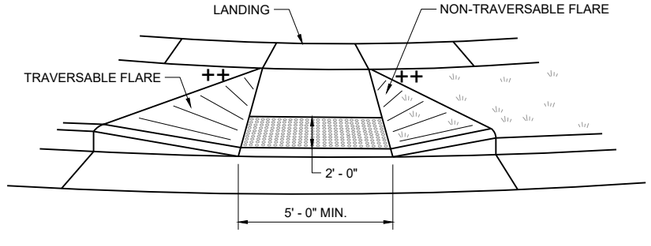
(21) PROVIDE A LANDING WITH A SLOPE PARALLEL TO ROADWAY THAT MATCHES SLOPE AT THE BOTTOM OF THE ADJACENT RAMP. SLOPE PERPENDICULAR TO ROADWAY SHALL BE 2.1% MAXIMUM. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

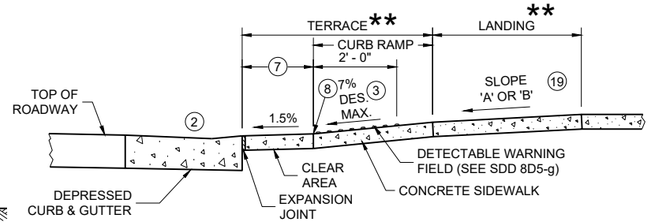
(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3



SECTION A - A FOR TYPE 2

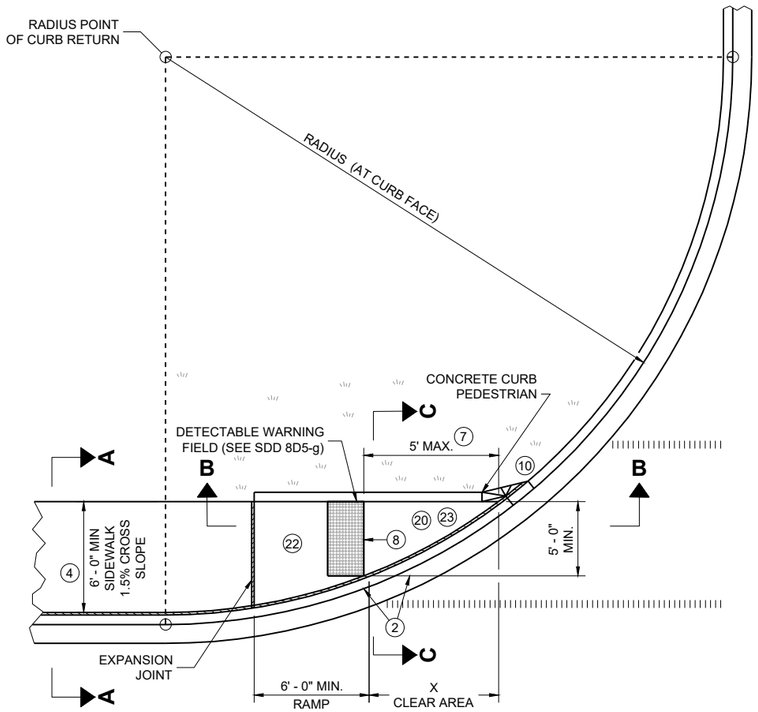
LEGEND

▨	½" EXPANSION JOINT SIDEWALK
- - - -	CONTRACTION JOINT SIDEWALK
ıllıllıllıllıl	PAVEMENT MARKING CROSSWALK (WHITE)
*	MAXIMUM 2.1% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK
**	WIDTH SHOWN ELSEWHERE IN THE PLANS
++	CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

CURB RAMPS TYPE 2 AND 3

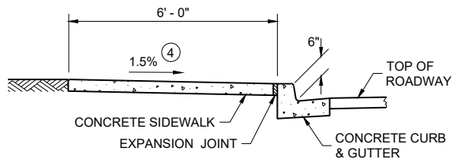
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 08D05-23b

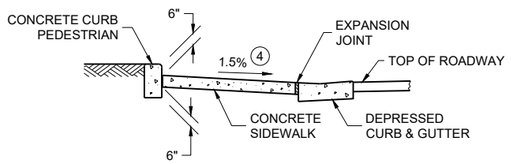


PLAN VIEW

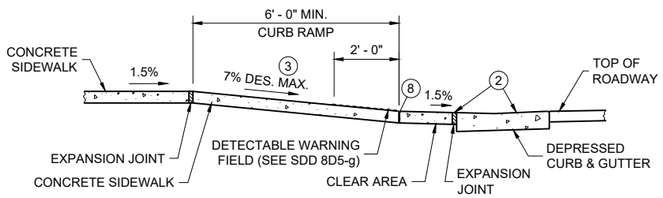
CURB RAMP TYPE 4A



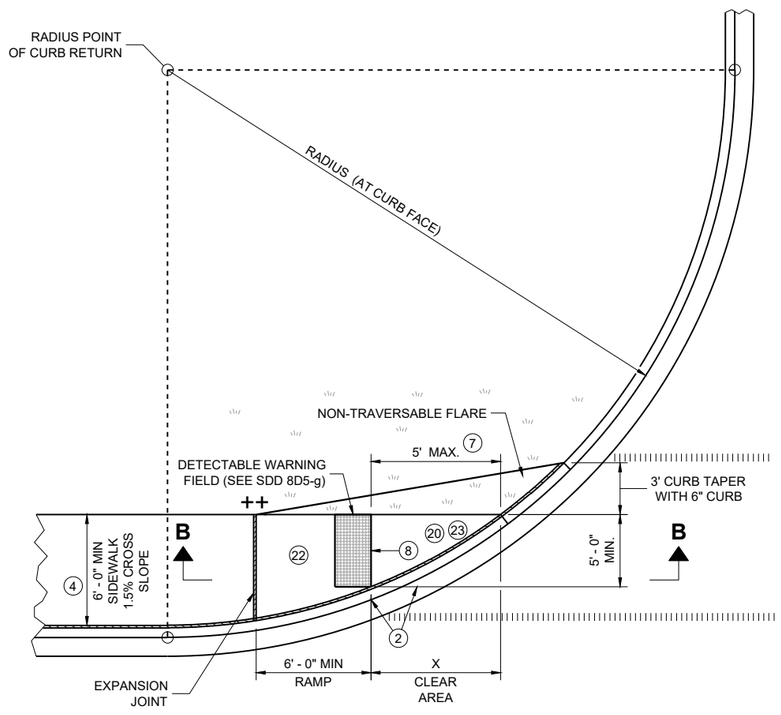
SECTION A - A FOR TYPE 4A



SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1



PLAN VIEW

CURB RAMP TYPE 4A1

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)
- ++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"

INTERMEDIATE RADII CAN BE INTERPOLATED

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB 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 COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(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.

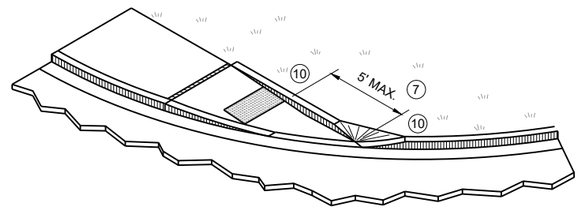
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

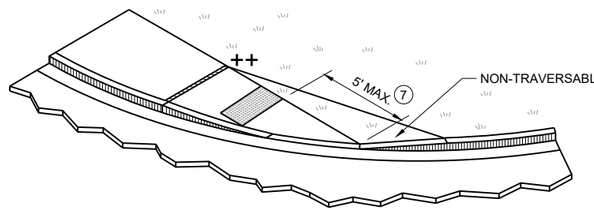
(20) MAXIMUM 1.5% DESIGN MAXIMUM AND 2.1% PROWAG MAXIMUM RUNNING SLOPE ON CLEAR AREA. CROSS SLOPE OF CLEAR AREA SHALL MATCH THE CROSS SLOPE OF THE ADJACENT CROSSWALK.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.



ISOMETRIC VIEW FOR TYPE 4A



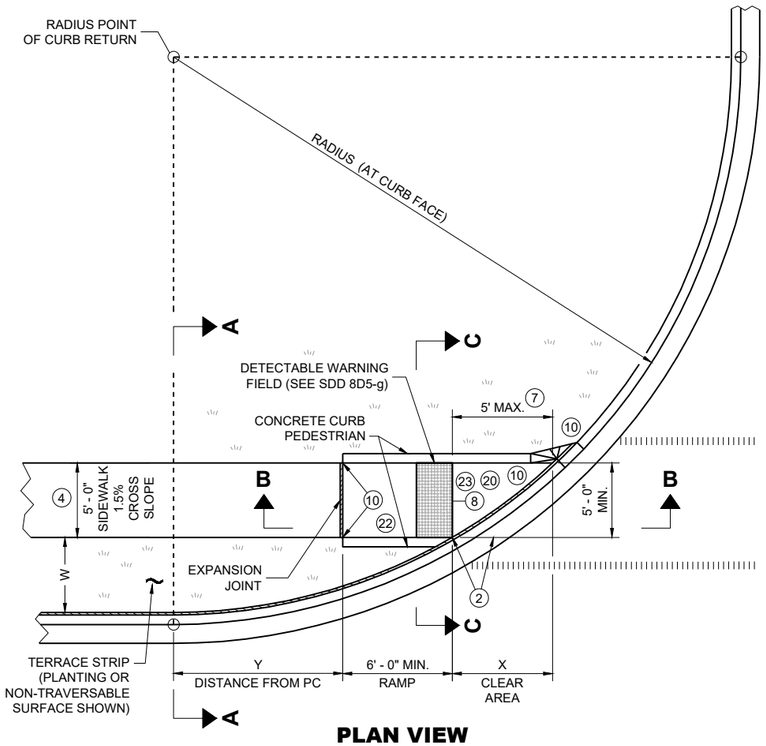
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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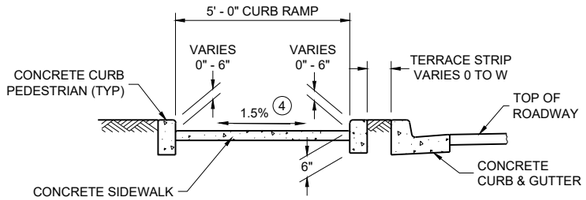
SDD 08D05-23c



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



SECTION C - C FOR TYPE 4B

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)
- * MAXIMUM 2.1% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK
- ++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB 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 COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(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.

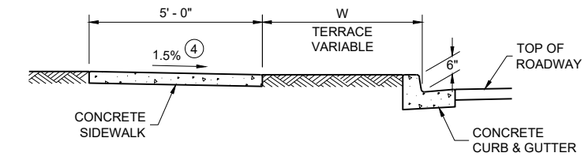
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

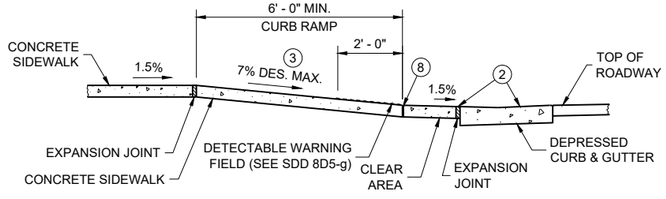
(20) MAXIMUM 1.5% DESIGN MAXIMUM AND 2.1% PROWAG MAXIMUM RUNNING SLOPE ON CLEAR AREA. CROSS SLOPE OF CLEAR AREA SHALL MATCH THE CROSS SLOPE OF THE ADJACENT CROSSWALK.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

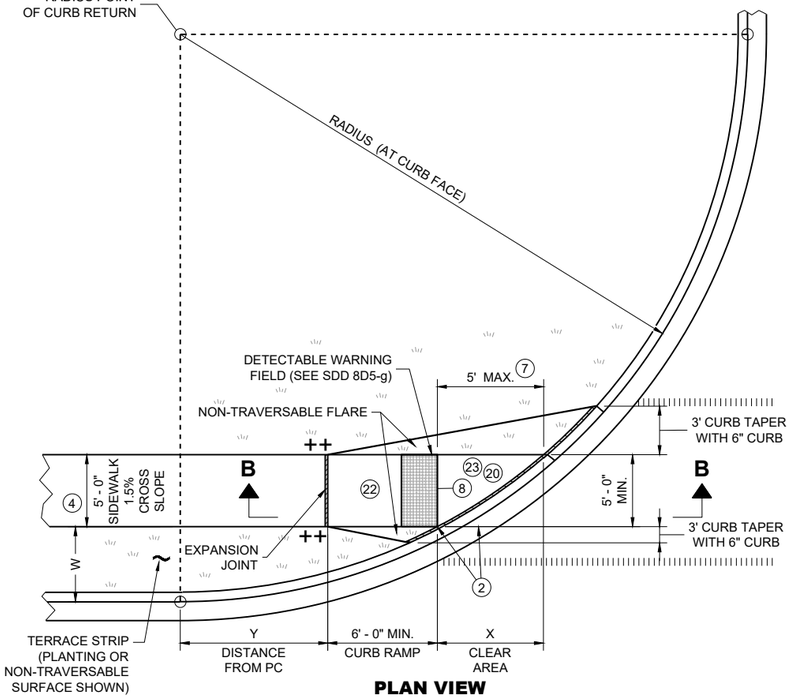
(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.



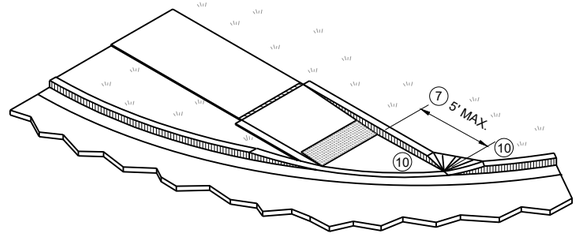
SECTION A - A FOR TYPE 4B



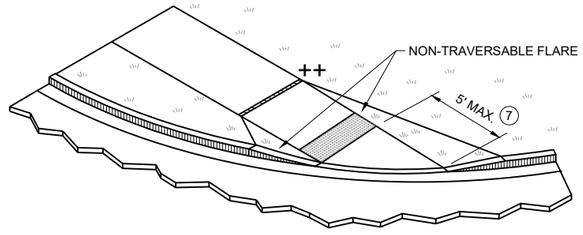
SECTION B - B FOR TYPE 4B AND TYPE 4B1



PLAN VIEW
CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



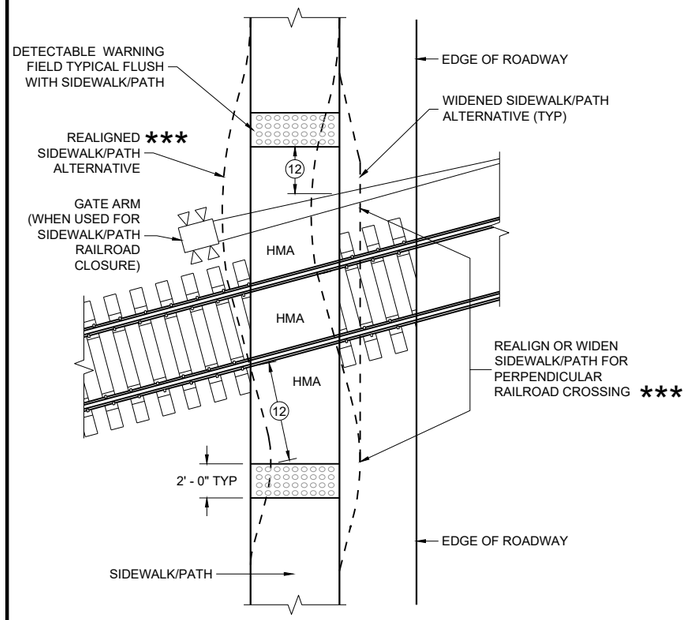
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS
TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

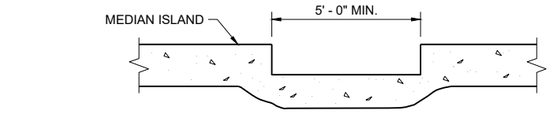
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SDD 08D05-23d

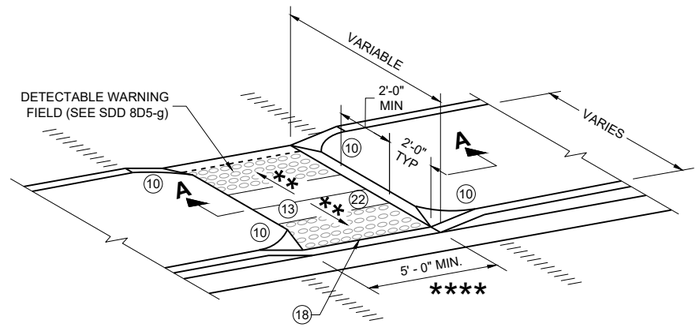


CURB RAMP TYPE 8

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 CURB 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 2.1%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A 5 FOOT BY 5 FOOT LANDING. SLOPE PERPENDICULAR TO CURB SHALL BE 2.1% MAXIMUM. SLOPE PARALLEL TO CURB SHALL MATCH THE CURB AND GUTTER LONGITUDINAL SLOPE.

(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.

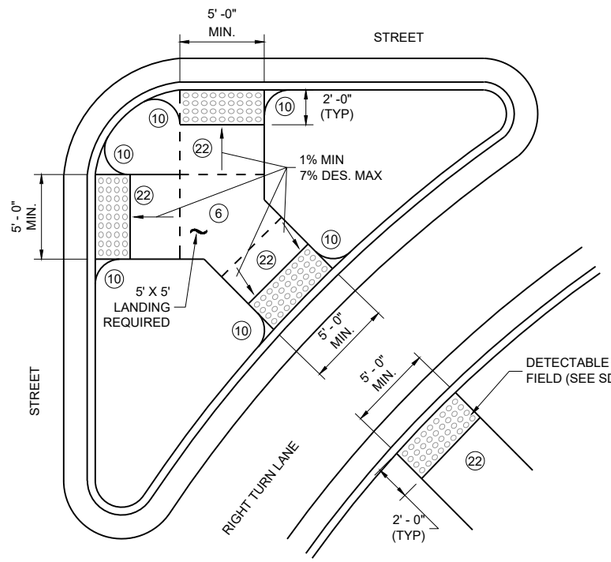
(12) THE DOWNSTREAM EDGE OF THE DETECTABLE WARNING SHOULD BE LOCATED AT LEAST 2 FEET UPSTREAM FROM THE AUTOMATIC GATE, COUNTERWEIGHT, FLASHING-LIGHT SIGNALS, OR CROSSBUCK ASSEMBLY SPECIFIC TO THE PATHWAY OR SIDEWALK (IF ANY ARE PRESENT) AND AT LEAST 12 FEET FROM THE NEAREST RAIL.

(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.

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

(18) WHEN THE DISTANCE BETWEEN THE BACK OF CURBS IS LESS THAN 6 FEET BUT THE FACE OF CURB TO FACE OF CURB DISTANCE IS 6 FEET OR GREATER THEN THE DETECTABLE WARNING FIELDS MAY BE MOVED SO THAT THE EDGE OF THE WARNING FIELD IS PLACED AT THE GUTTER FLOWLINE. MAINTAIN A MINIMUM OF TWO FEET BETWEEN DETECTABLE WARNING FIELD PANELS.

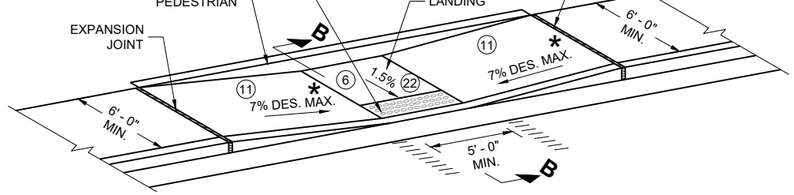
(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.



CURB RAMP TYPE 6

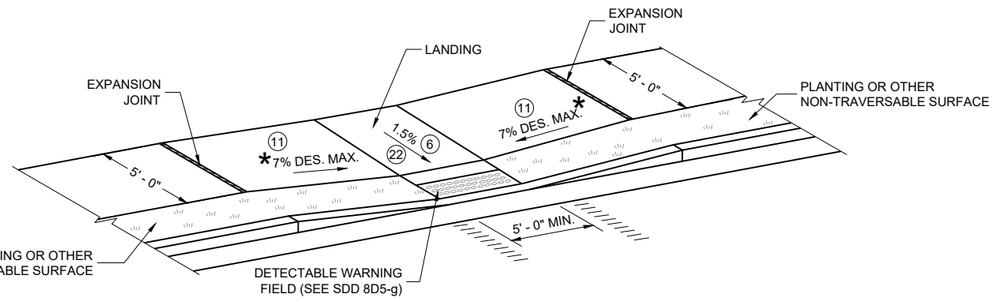
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

FOR INTERSECTIONS AND MID BLOCK CROSSINGS

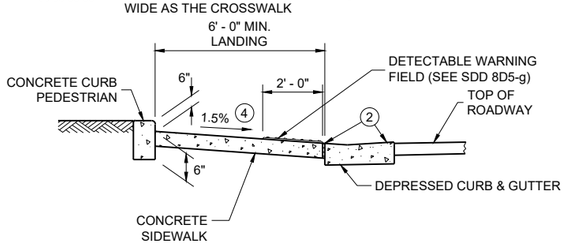


CURB RAMP TYPE 7B

FOR INTERSECTIONS AND MID BLOCK CROSSINGS

LEGEND

═══	½" EXPANSION JOINT SIDEWALK
– – – –	CONTRACTION JOINT FIELD LOCATED
ıı ıı ıı ıı	PAVEMENT MARKING CROSSWALK (WHITE)
*	MAXIMUM 8.3%
**	1% MINIMUM (PROVIDE DRAINAGE)
***	DETAILS TO BE DETERMINED BY ENGINEER
****	FOR SHARED USE PATHS, WIDTH MUST BE AS WIDE AS THE CROSSWALK



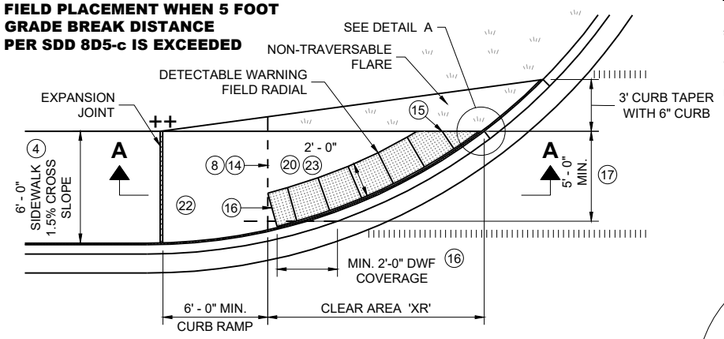
SECTION B - B FOR TYPE 7A

CURB RAMPS
TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

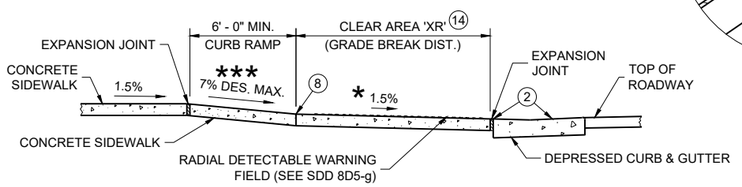
6
SDD 08D05-23e

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

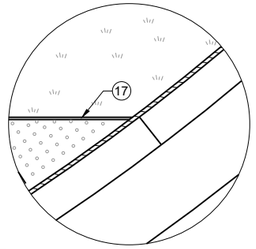
CURB RAMP TYPE 4A1
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



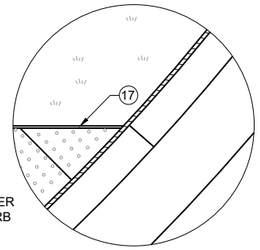
SECTION A - A FOR TYPE 4A1

LEGEND

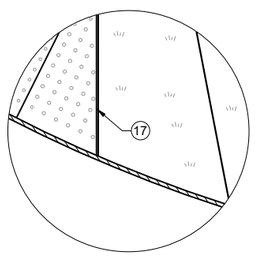
═══	½" EXPANSION JOINT SIDEWALK
– – – –	CONTRACTION JOINT SIDEWALK
ıı ıı ıı ıı	PAVEMENT MARKING CROSSWALK (WHITE)
**	WIDTH SHOWN ELSEWHERE IN THE PLANS
***	MAXIMUM 8.3%
++	CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE



DETAIL A



DETAIL B



DETAIL C

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB 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 COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A 5 FOOT BY 5 FOOT LANDING. SLOPE PERPENDICULAR TO CURB SHALL BE 2.1% MAXIMUM. SLOPE PARALLEL TO CURB SHALL MATCH THE CURB AND GUTTER LONGITUDINAL SLOPE.

(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 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

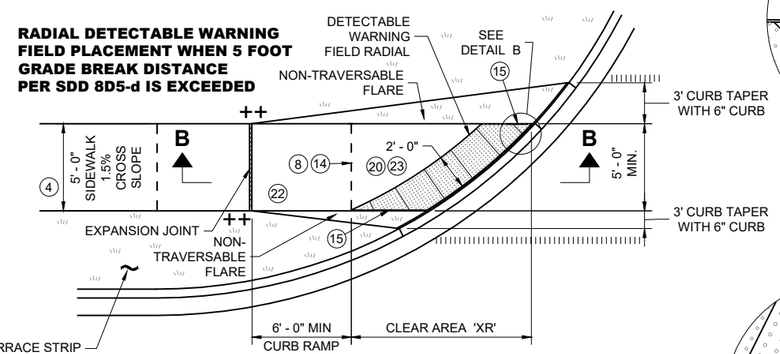
(19) WHERE A LANDING SERVES TWO CURB RAMPS, THE LANDING SLOPE SHALL NOT EXCEED THE CROSS SLOPE AT THE BOTTOM OF THE RAMP OR WITHIN THE CROSSWALK PARALLEL TO THE DIRECTION OF TRAVEL.

(20) MAXIMUM 1.5% DESIGN MAXIMUM AND 2.1% PROWAG MAXIMUM RUNNING SLOPE ON CLEAR AREA. CROSS SLOPE OF CLEAR AREA SHALL MATCH THE CROSS SLOPE OF THE ADJACENT CROSSWALK.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

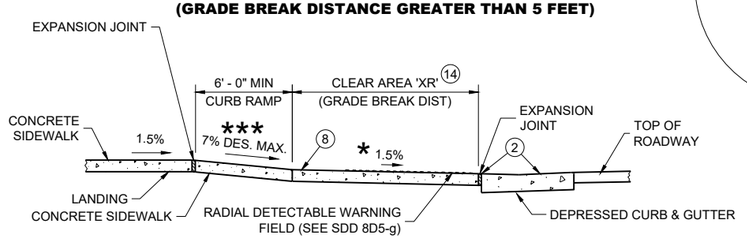
(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



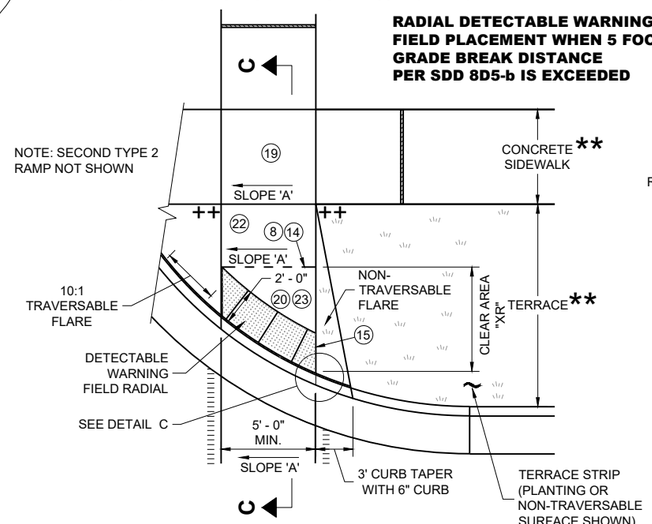
PLAN VIEW

CURB RAMP TYPE 4B1
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



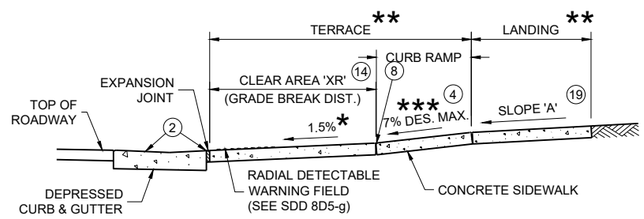
SECTION B - B FOR TYPE 4B1

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)



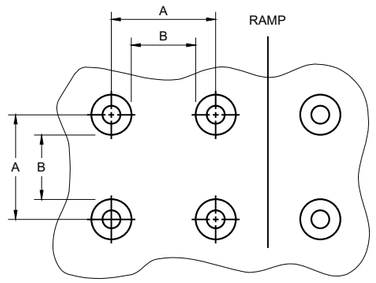
SECTION C - C FOR TYPE 2

CURB RAMPS
RADIAL DETECTABLE WARNING

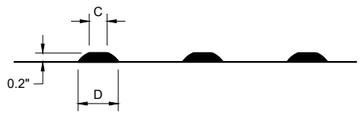
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

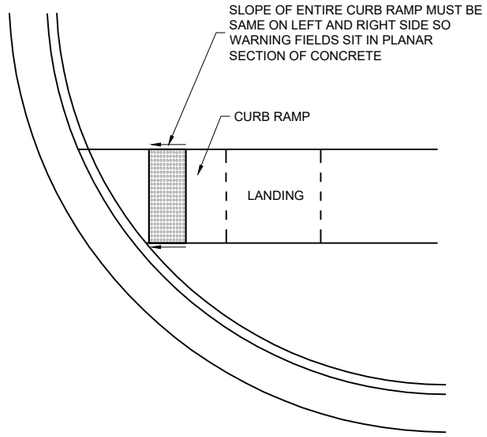
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW



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.

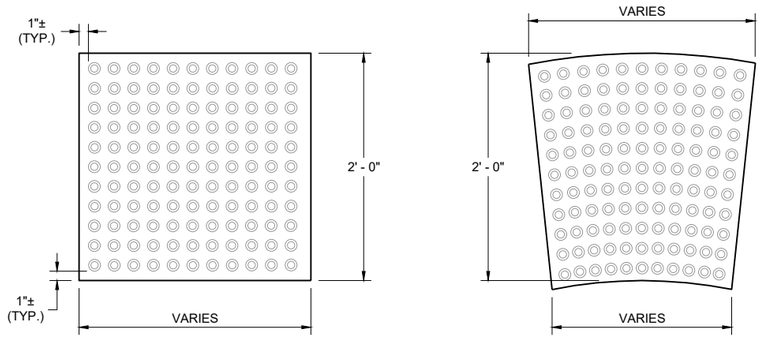
FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. 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.

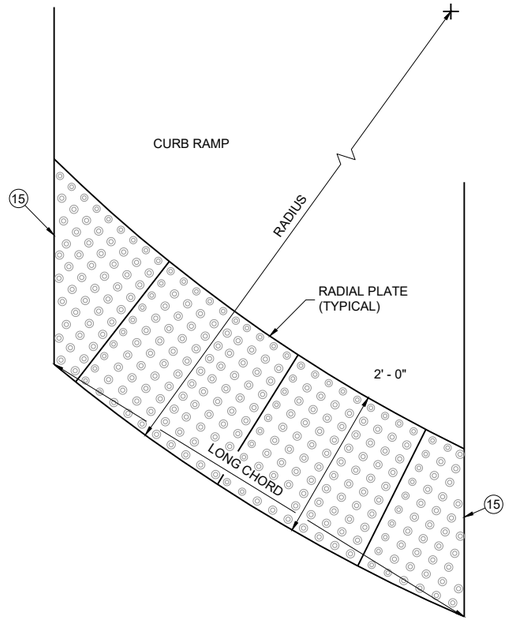
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



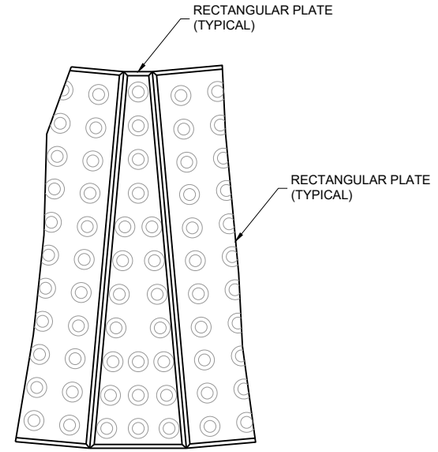
RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2026 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

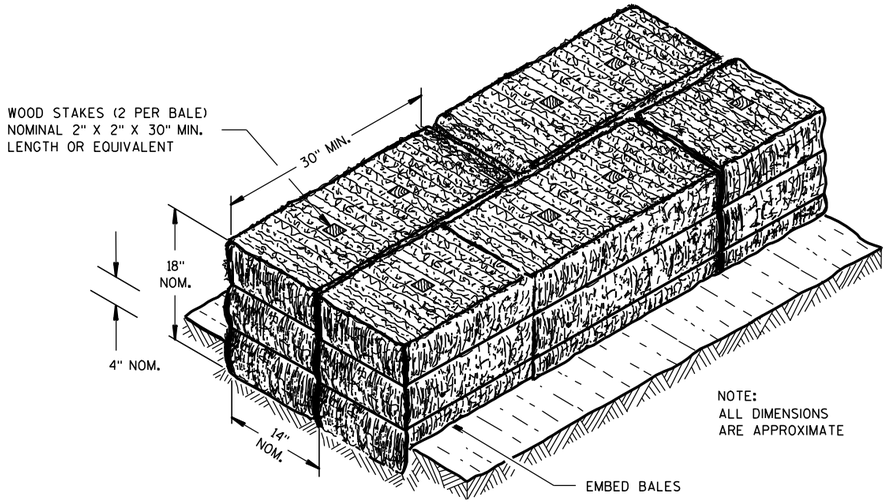
FHWA

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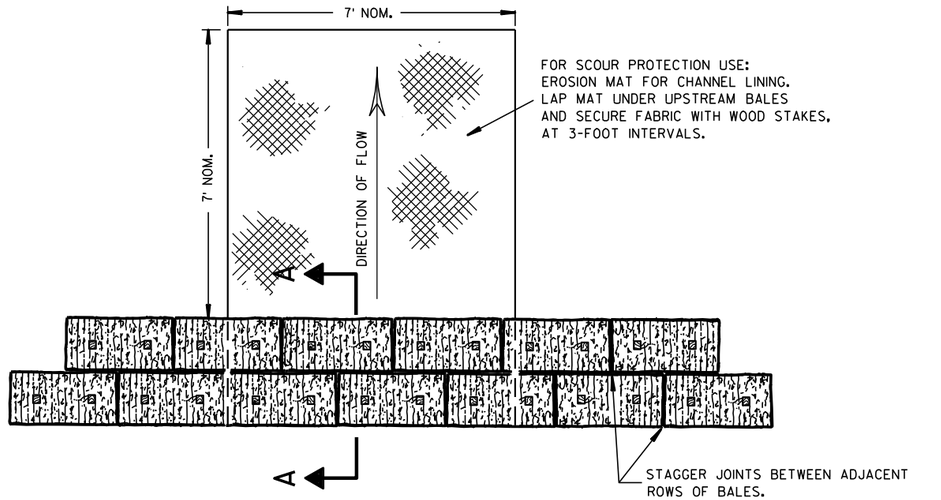
SDD 08D05-23g

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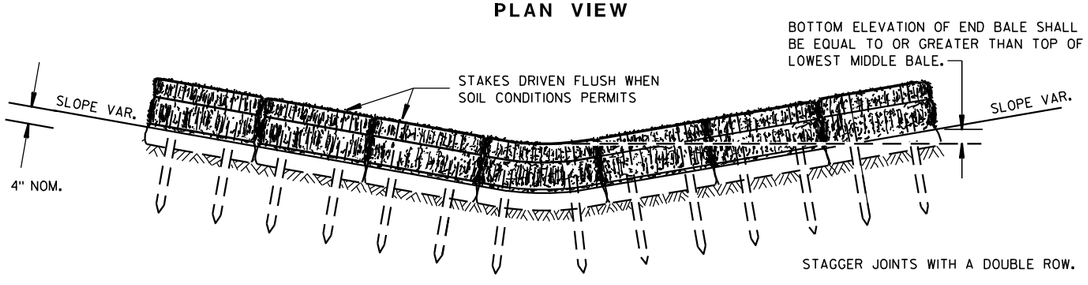
SDD 08D05-23g



SECTION A-A



PLAN VIEW



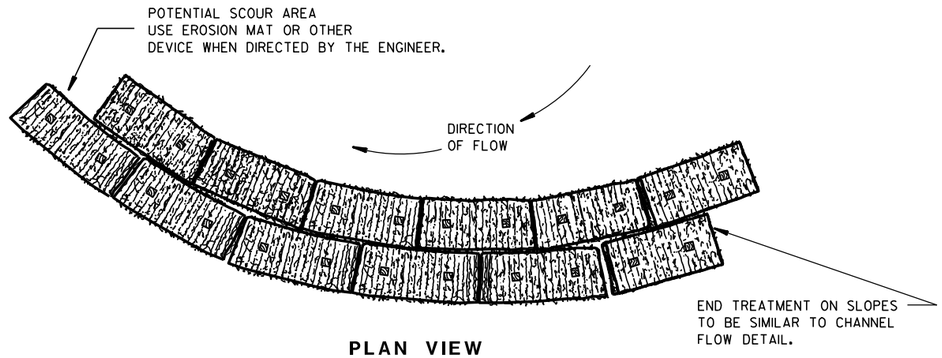
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

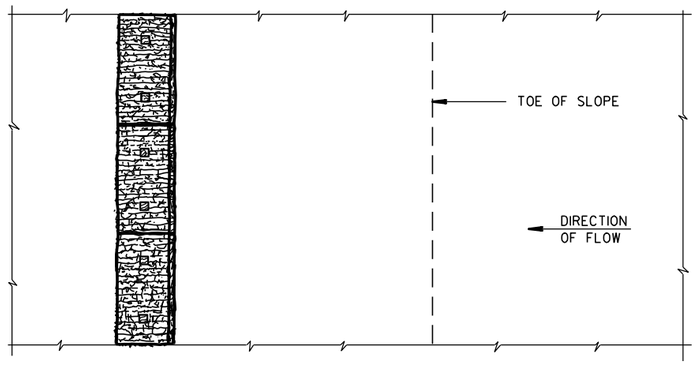
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

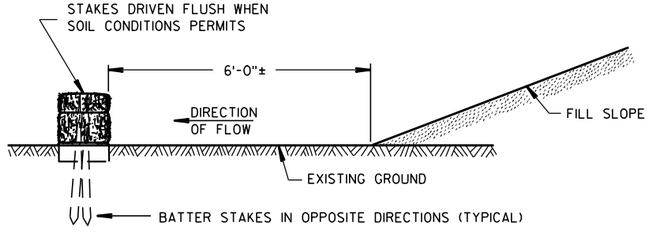


PLAN VIEW

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

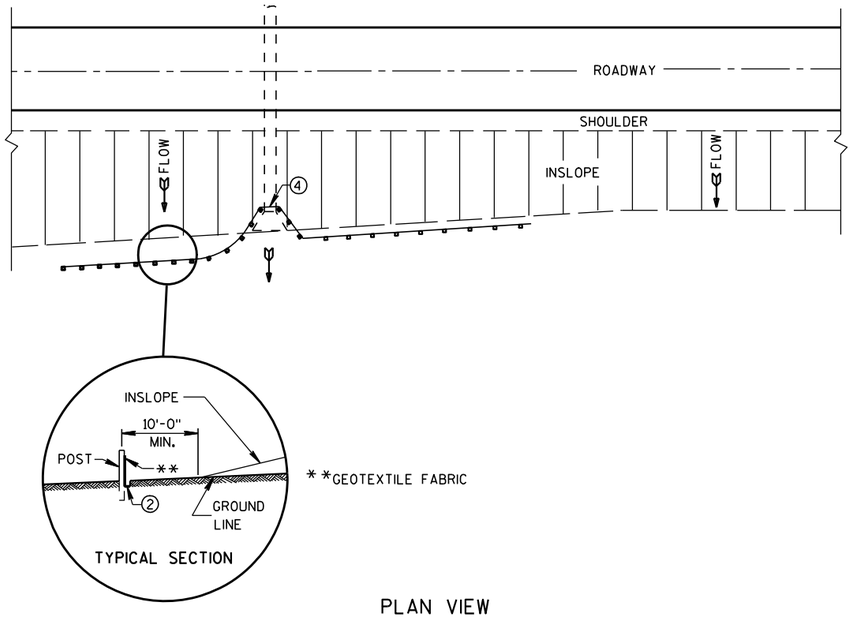
6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

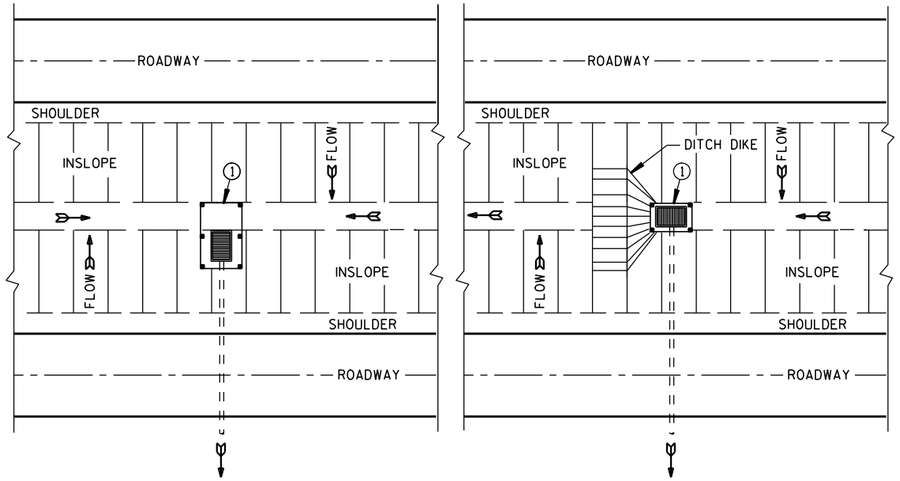
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



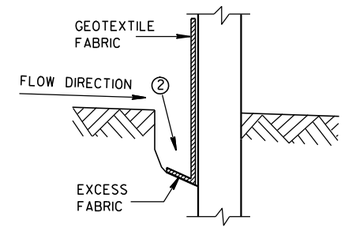
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

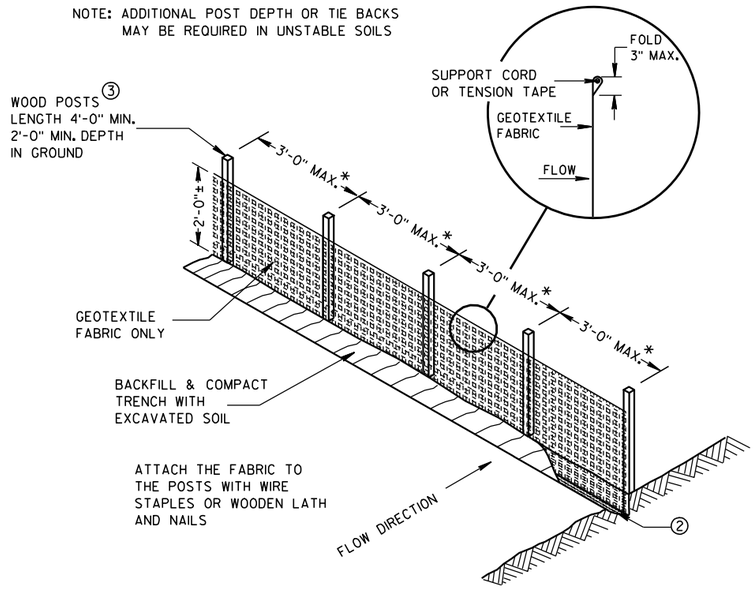
GENERAL NOTES

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

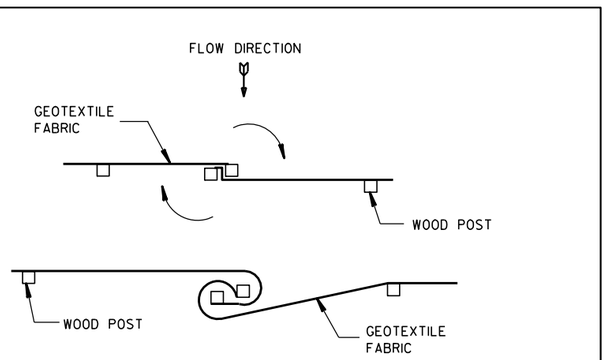
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



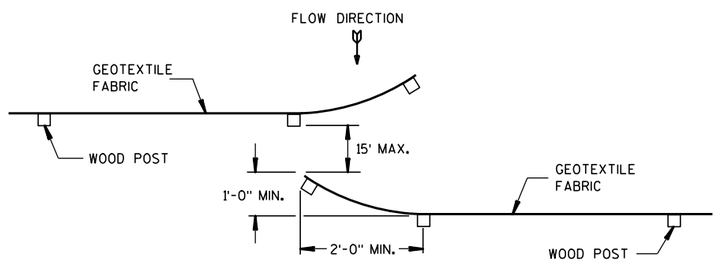
TRENCH DETAIL



SILT FENCE

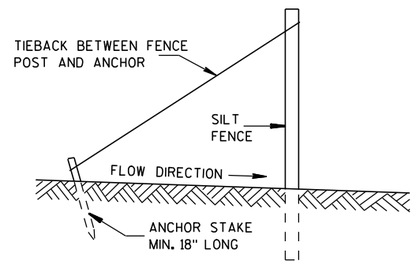


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

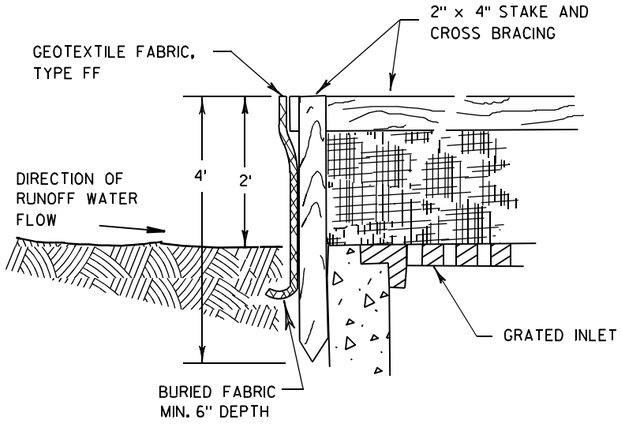
(WHEN REQUIRED BY THE ENGINEER)

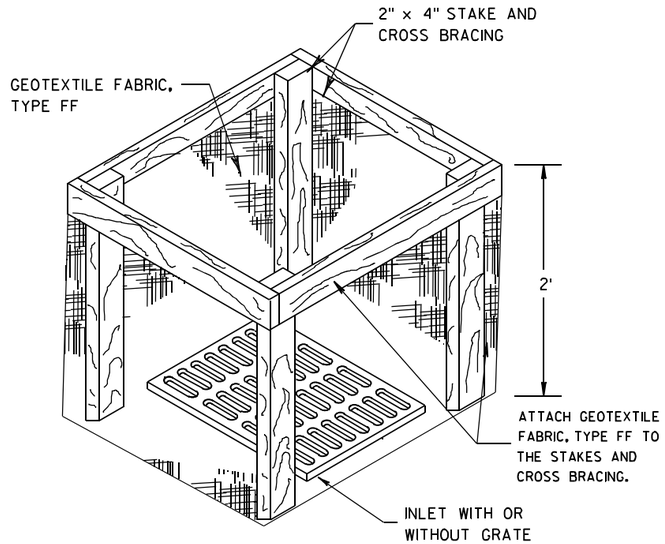
SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

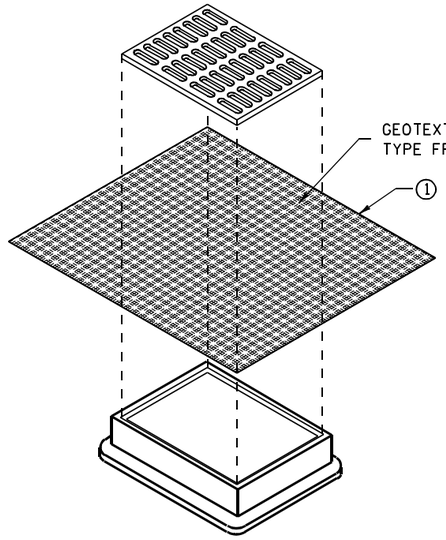
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 9-6



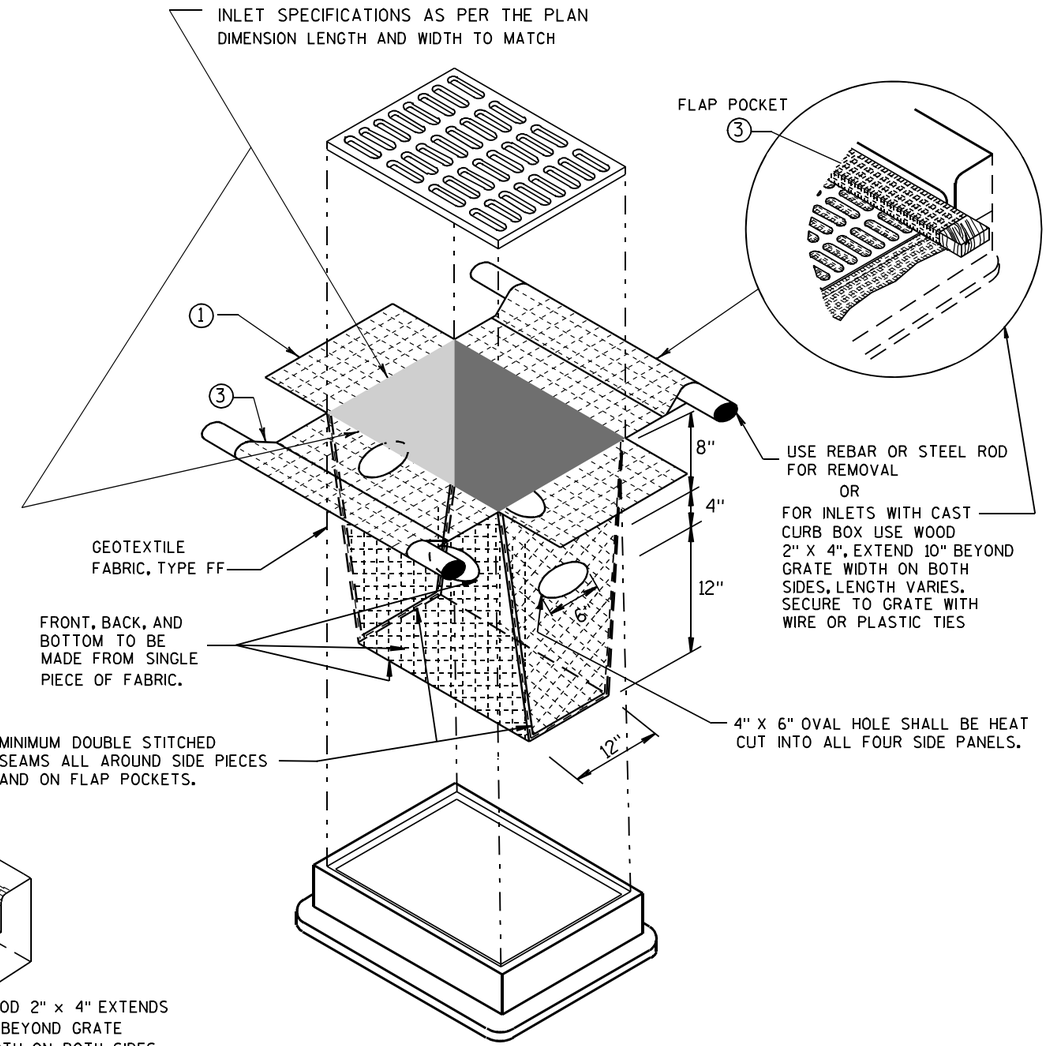


INLET PROTECTION, TYPE A



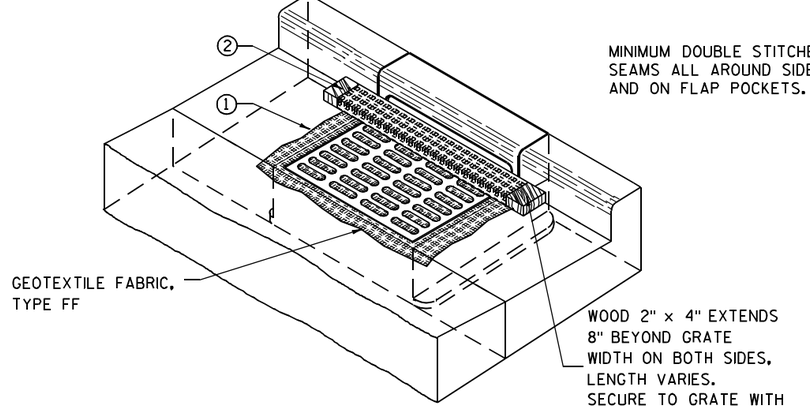
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

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.

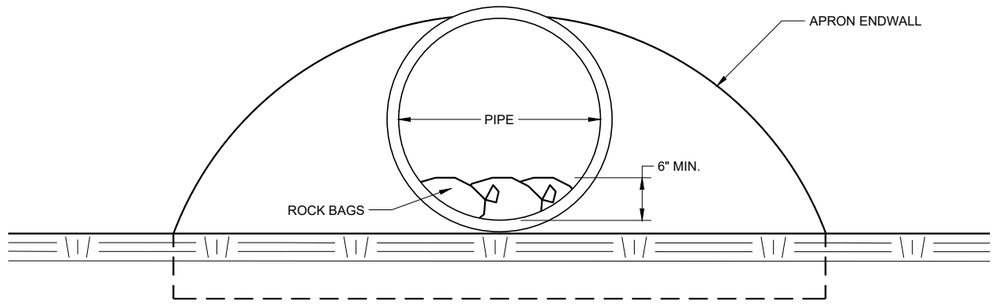
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

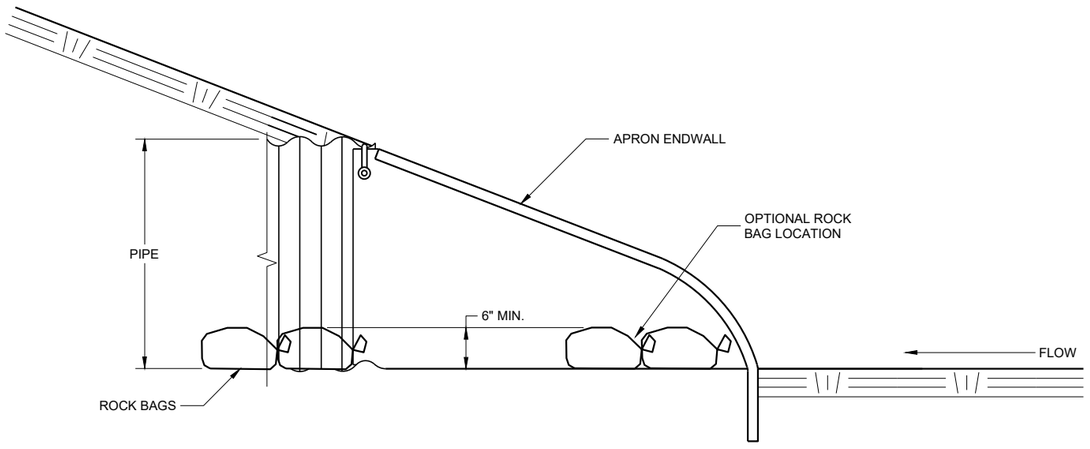
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



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	

6

SDD 08E15 - 01

METAL APRON ENDWALLS

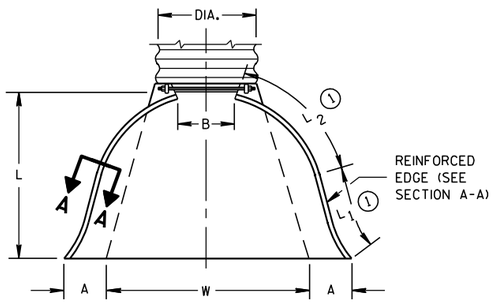
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

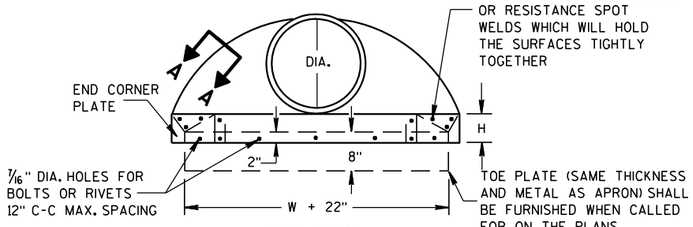
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	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

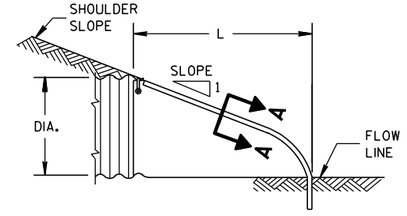
*MINIMUM
**MAXIMUM



PLAN VIEW

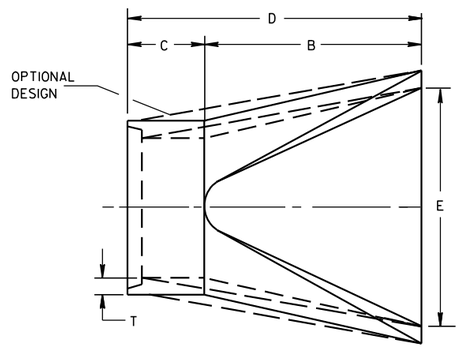


END VIEW

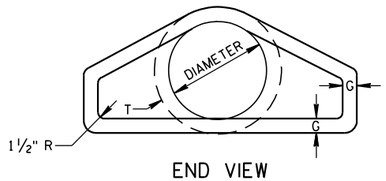


SIDE ELEVATION

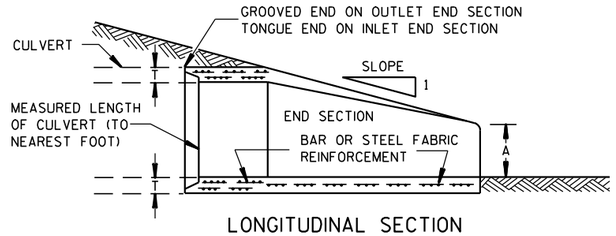
METAL ENDWALLS



PLAN

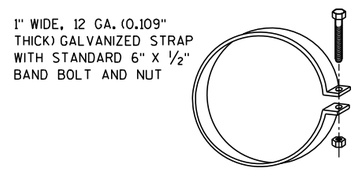


END VIEW



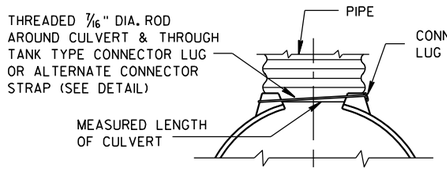
LONGITUDINAL SECTION

CONCRETE ENDWALLS

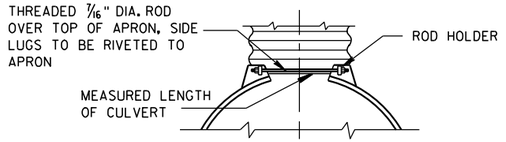


ALTERNATE FOR TYPE 1 CONNECTION

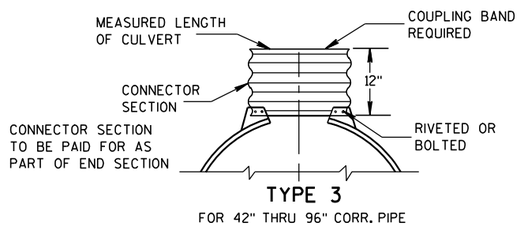
END SECTION CONNECTOR STRAP



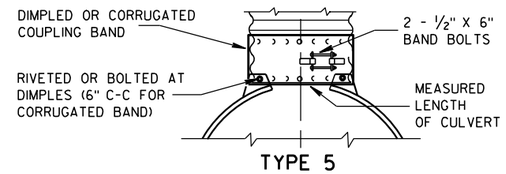
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

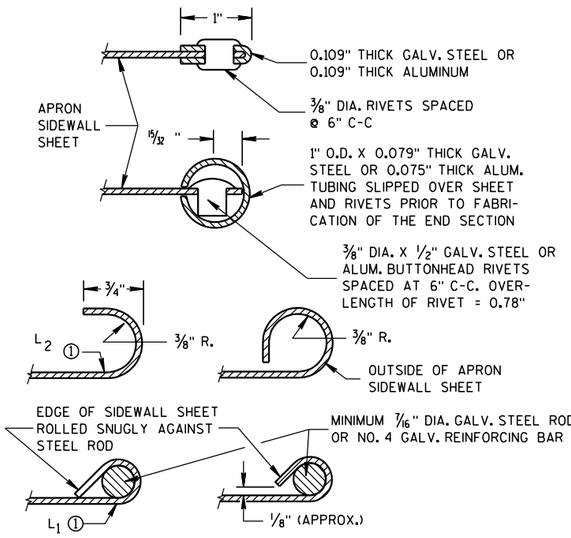
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

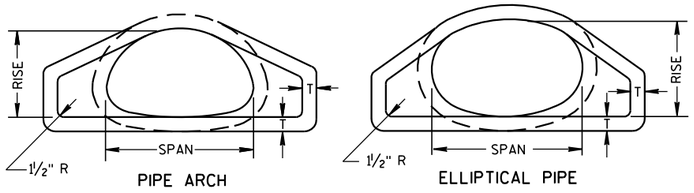
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

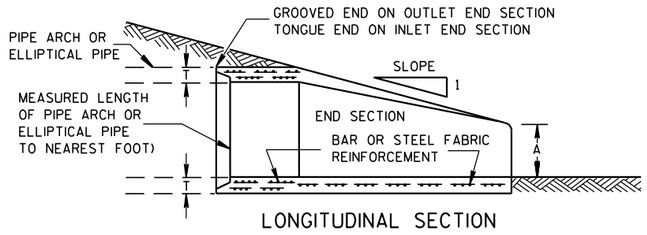
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

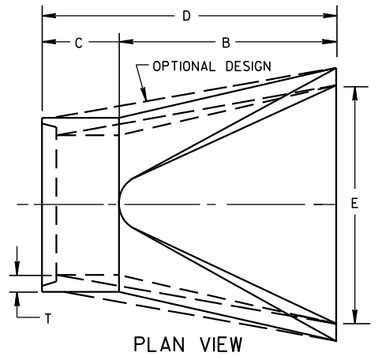
6
S.D.D. 8 F 1-11



END VIEW

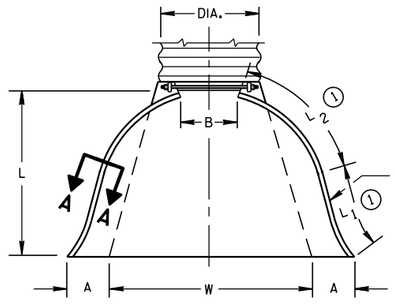


LONGITUDINAL SECTION

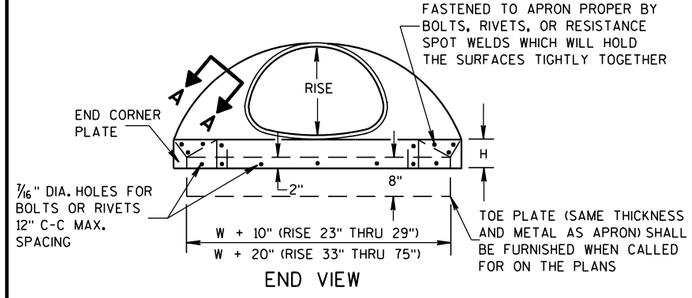


PLAN VIEW

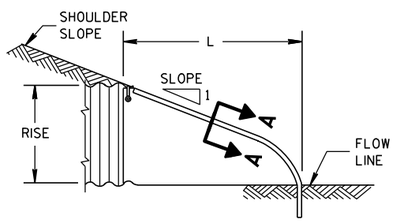
CONCRETE ENDWALLS



PLAN VIEW

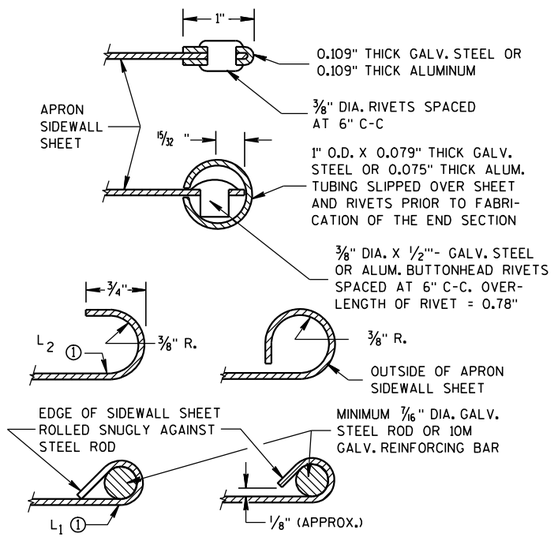


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	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
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) SPAN	(Inches) RISE	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
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

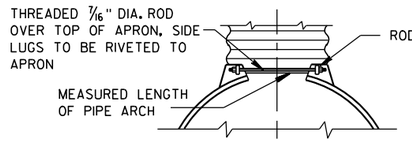
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
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

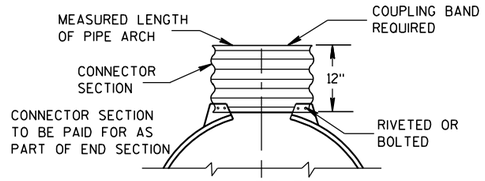
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



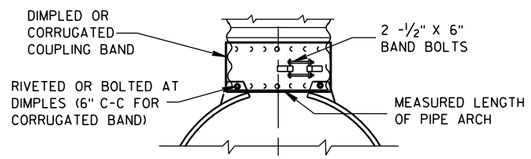
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

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.

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

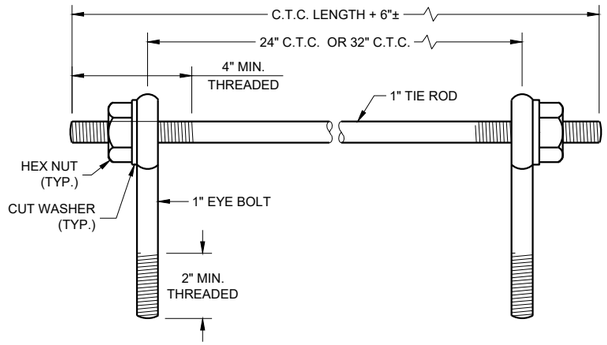
FHWA

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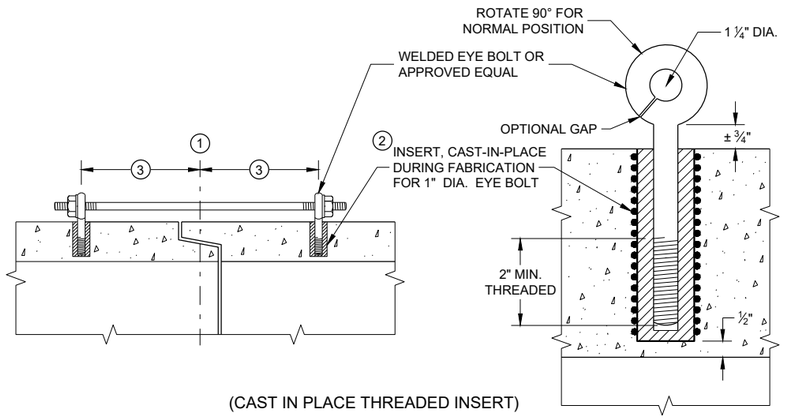
S.D.D. 8 F 2-1

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.

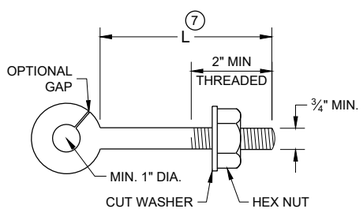
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

(4) BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

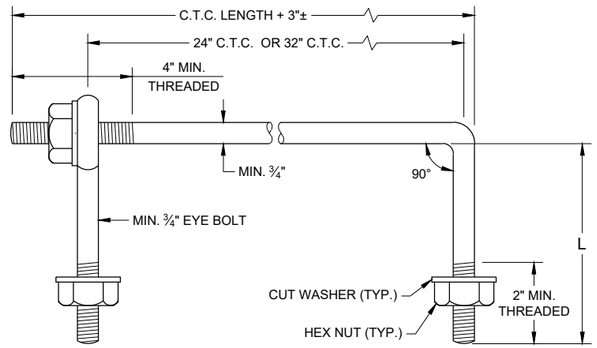
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

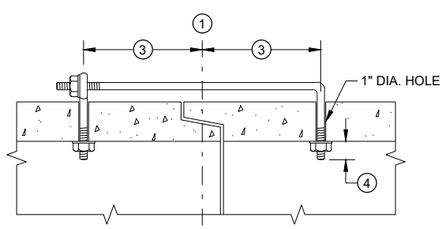


EYE BOLT (7)

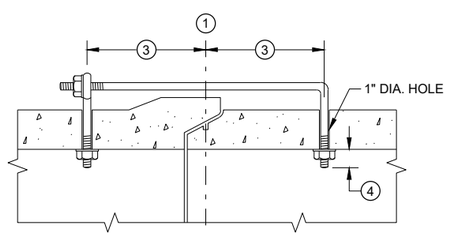
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

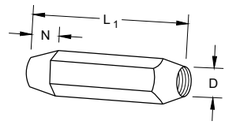
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

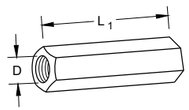
ADJUSTABLE TIE ROD TABLE

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



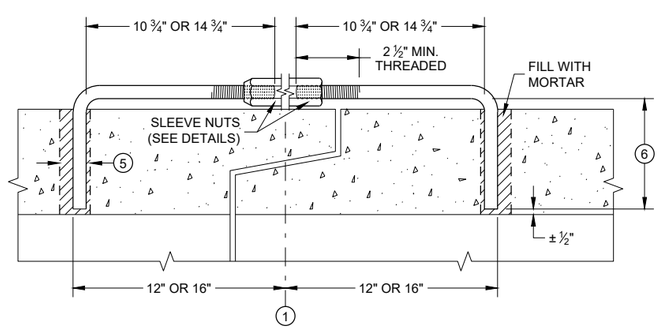
TAPERED



PLAIN

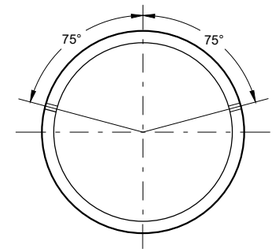
RIGHT AND LEFT THREADS

SLEEVE NUTS



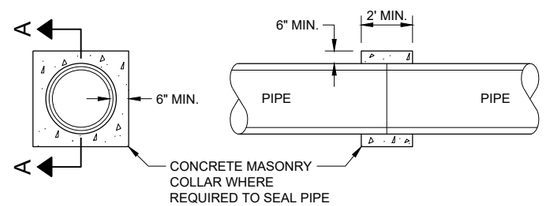
LONGITUDINAL SECTION

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

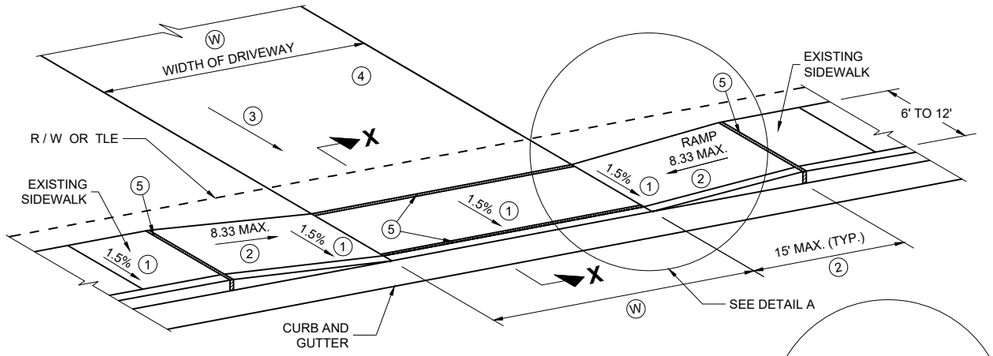
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

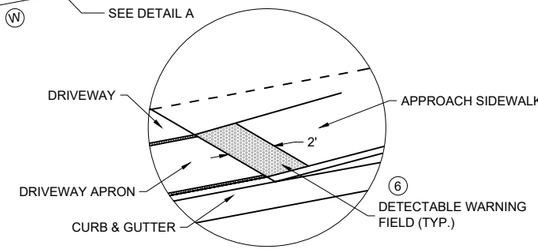
APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

SDD 08F04 - 08

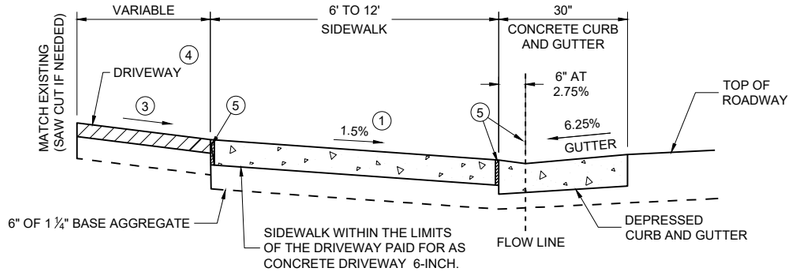
SDD 08F04 - 08



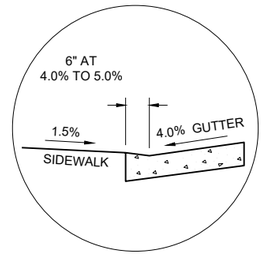
TYPE X
SIDEWALK ABUTS CURB AND GUTTER
TERRACE VARIES 0 TO 3 FEET



DETAIL A



SECTION X - X

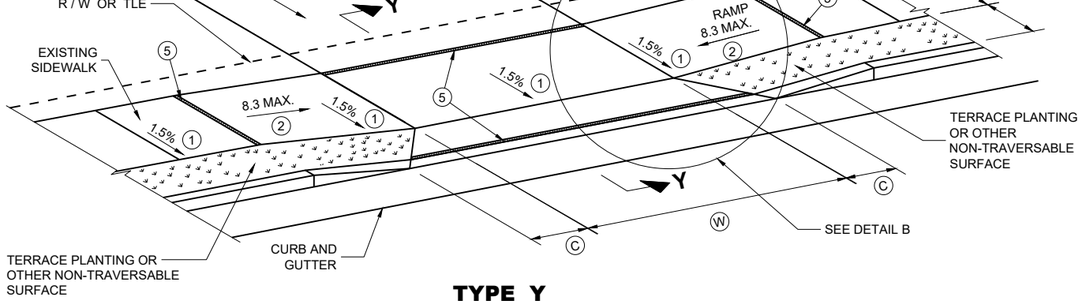


SECTION X - X
4% GUTTER SLOPE

Ⓦ : DRIVEWAY WIDTHS (MEASURED AT ROW LINE)
- ~ COMMERCIAL & INDUSTRIAL 16' MIN. - 35' MAX.
- ~ RESIDENTIAL & AGRICULTURAL (NONCOMMERCIAL) 16' MIN. - 24' MAX.

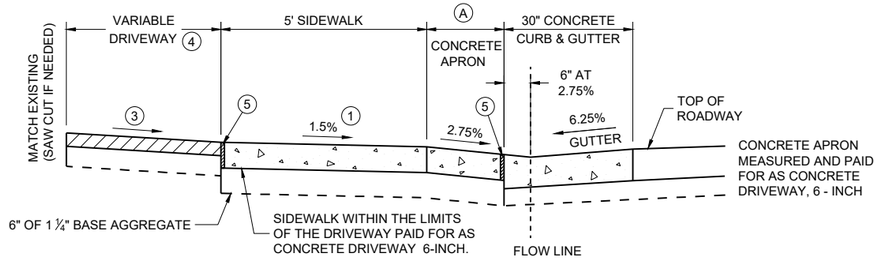
TABLE Y

Ⓐ FEET	Ⓒ FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'

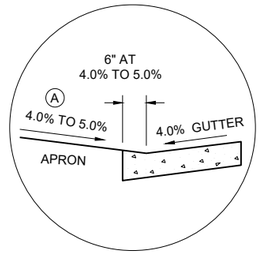


TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

Ⓐ:MEASURE FROM BACK OF CURB



NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS



SECTION Y - Y
4% GUTTER SLOPE

SECTION Y - Y

DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER

(URBAN AND SUBURBAN)

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

Ⓦ IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

① CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1%.

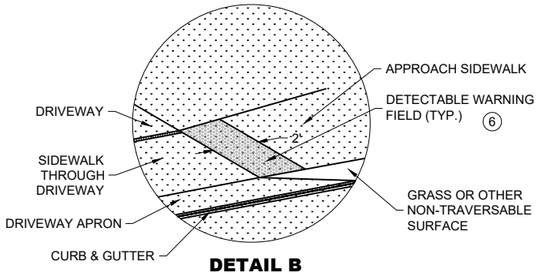
② THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

③ DRIVEWAY SLOPES: DESIRABLE MAXIMUM
10.5% UP AWAY FROM SIDEWALK (SAG)
8.5% DOWN AWAY FROM SIDEWALK (CREST)
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

④ DRIVEWAY TYPES
- * 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- * 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- * 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

⑤ 1/2" EXPANSION JOINT FILLER

⑥ DETECABLE WARNING FIELDS ARE REQUIRED WHEN A PEDESTRIAN CIRCULATION ROUTE CROSSES A DRIVEWAY THAT IS TRAFFIC SIGNAL, STOP, OR YIELD SIGN CONTROLLED. DETECTABLE WARNING FIELDS TO BE 2 FT DEEP AND EXTEND THE WIDTH OF THE PEDESTRIAN CIRCULATION ROUTE.



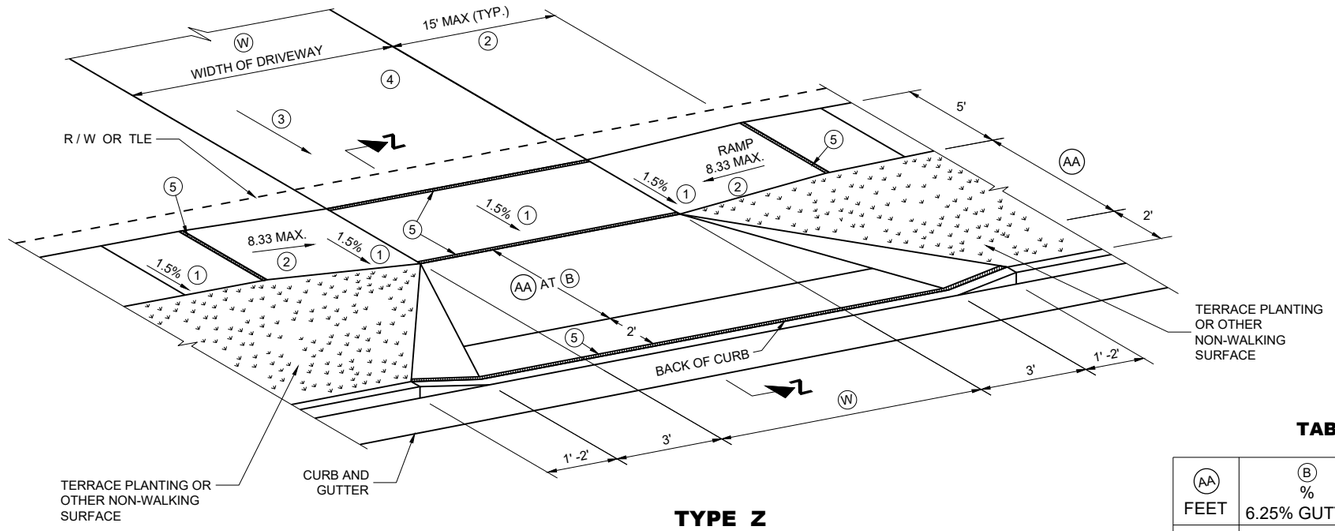
DETAIL B

DRIVEWAY AND SIDEWALK RAMPS TYPES X AND Y

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
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TYPE Z

SIDEWALK WITH WIDER TERRACE
TERRACE VARIES 7 TO 12 FEET

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.

(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
10.5% UP AWAY FROM SIDEWALK (SAG)
8.5% DOWN AWAY FROM SIDEWALK (CREST)
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

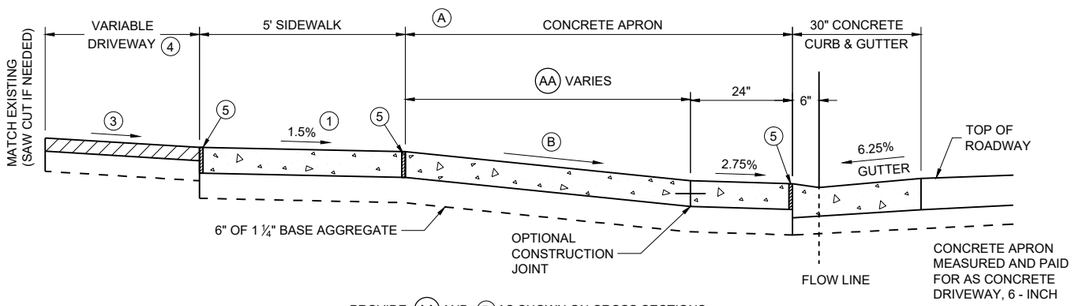
(4) DRIVEWAY TYPES
* 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE 2-INCH
* TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE 6-INCH BASE
* AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

(5) 1/2" EXPANSION JOINT FILLER.

TABLE Z

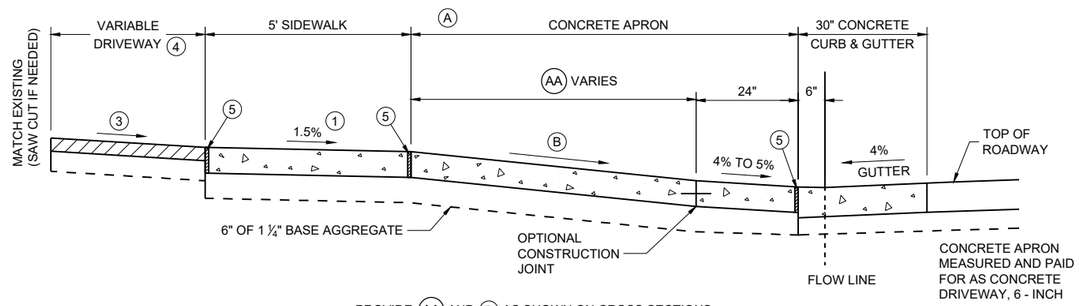
(AA) FEET	(B) % 6.25% GUTTER	(B) % 4% GUTTER
4.5'	11.5%	9% TO 11.5%
5.5'	9% TO 11.5%	8% TO 11.5%
6.5'	8% TO 11.5%	6% TO 11.5%
7.5'	7% TO 11.5%	6% TO 11.5%
8.5'	6% TO 11.5%	5% TO 11.5%
9.5'	5% TO 11.5%	4% TO 11.5%

(W) : DRIVEWAY WIDTHS (MEASURED AT ROW LINE)
~ COMMERCIAL & INDUSTRIAL 16' MIN. - 35' MAX.
~ RESIDENTIAL & AGRICULTURAL (NONCOMMERCIAL) 16' MIN. - 24' MAX.



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

6.25% GUTTER SLOPE



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

4% GUTTER SLOPE

NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS FOR (B) VALUES NOT SHOWN IN TABLE Z.

SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY 6-INCH.

SECTION Z - Z

DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER

(URBAN AND SUBURBAN)

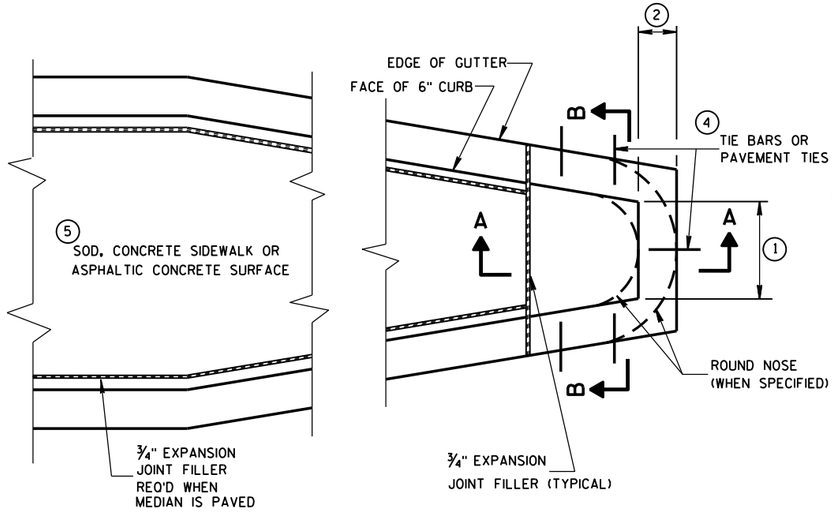
DRIVEWAY AND SIDEWALK RAMPS TYPE Z

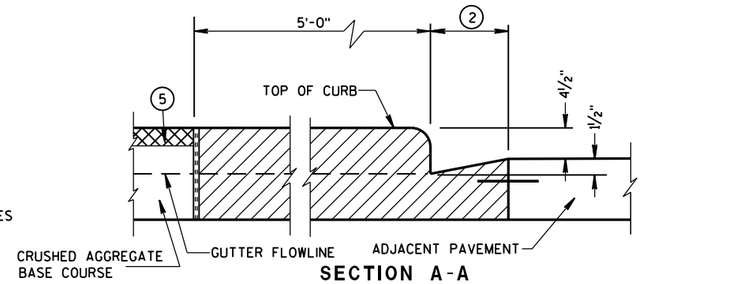
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

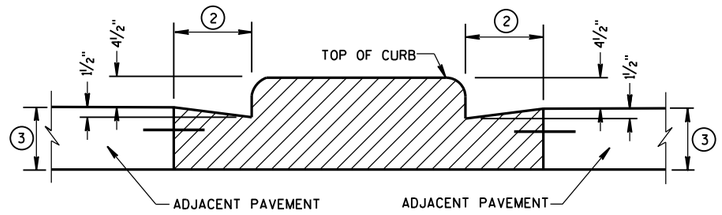
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SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE 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.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

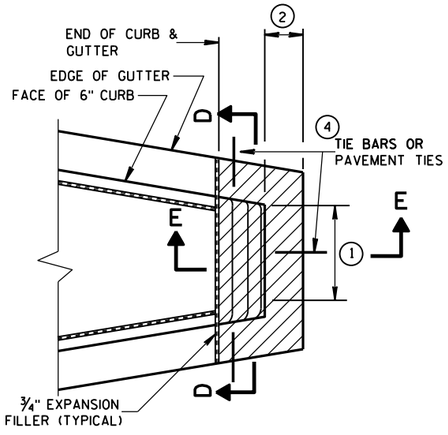
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

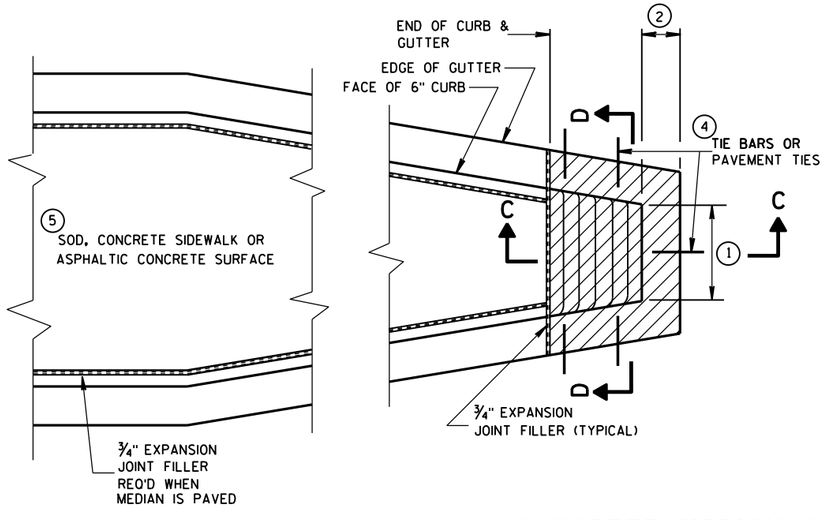
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

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

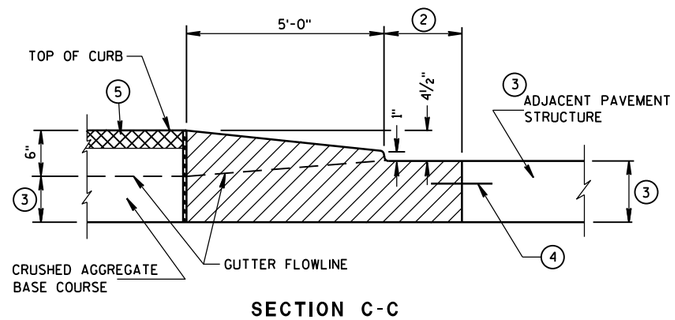
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

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

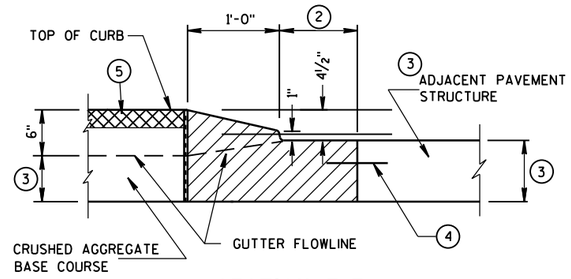




CONCRETE MEDIAN SLOPED NOSE TYPE 1

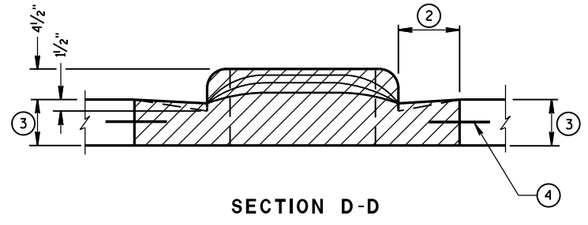


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

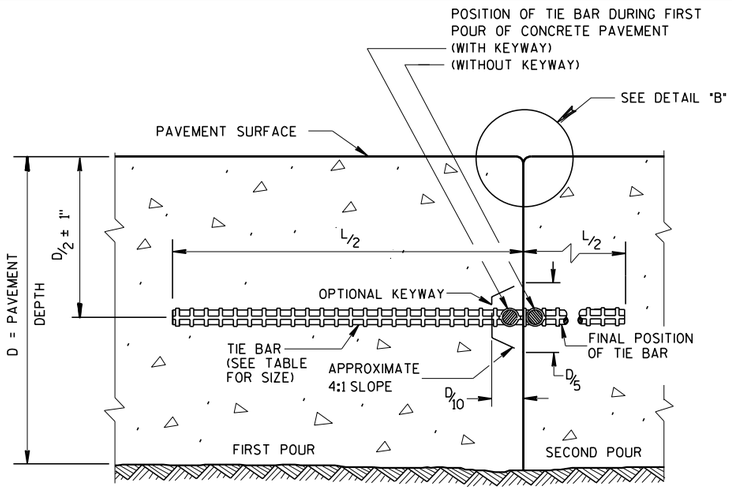
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

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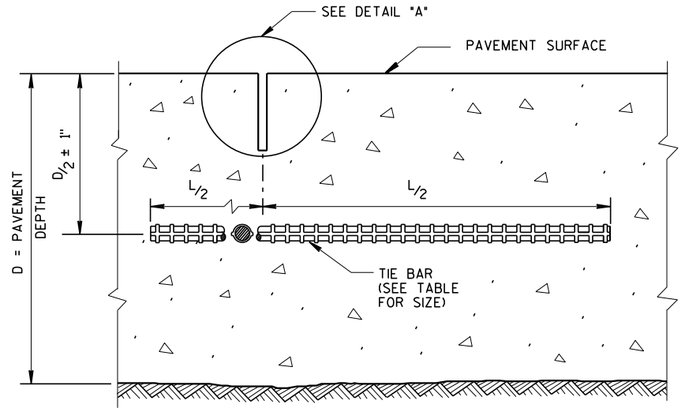
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S.D.D. 11 B 2-2



CONSTRUCTION JOINT



SAWED JOINT

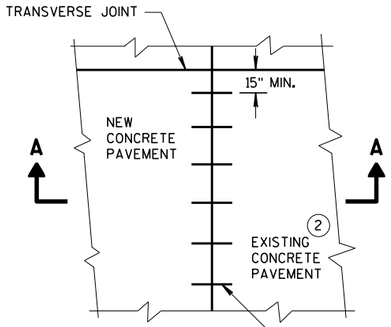
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

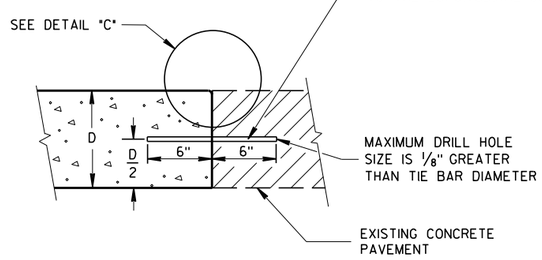
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

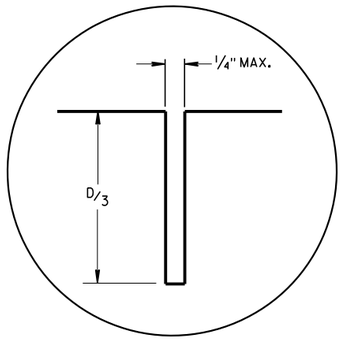


PLAN VIEW

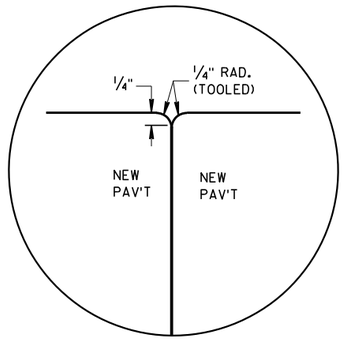


SECTION A-A

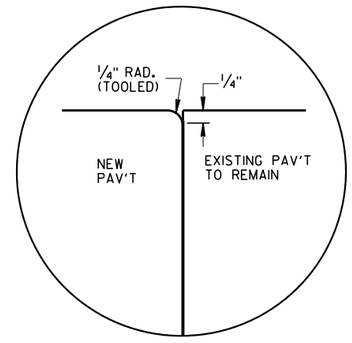
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



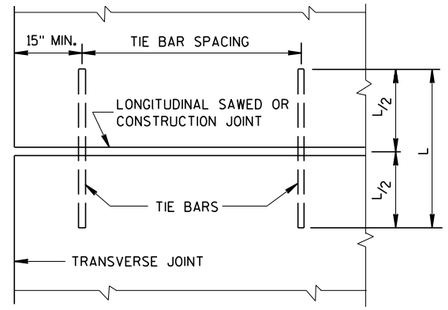
DETAIL "C"

TIE BAR TABLE

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

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

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



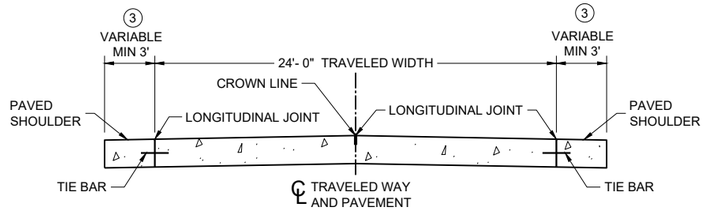
PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

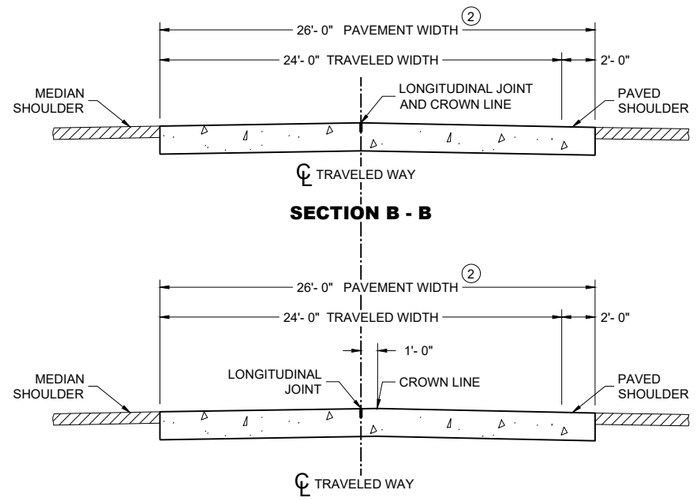
APPROVED
March 2018 — DATE
/S/ Peter Kemp PE — PAVEMENT SUPE
FHWA

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SECTION A - A

TWO-LANE TWO-WAY HIGHWAY (1)



SECTION B - B

ALTERNATIVE SECTION B - B

DIVIDED HIGHWAY (1)

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

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

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES FROM AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

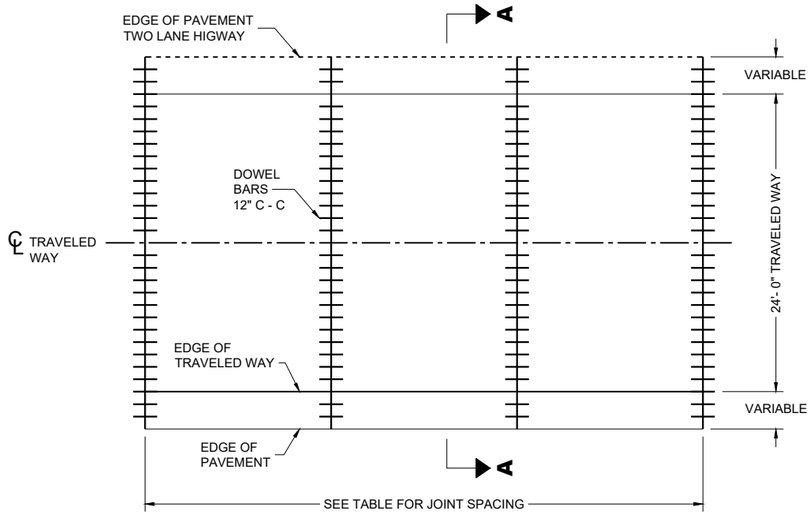
(1) REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

(2) MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED "PAVED SHOULDER" AS CONCRETE PAVEMENT.

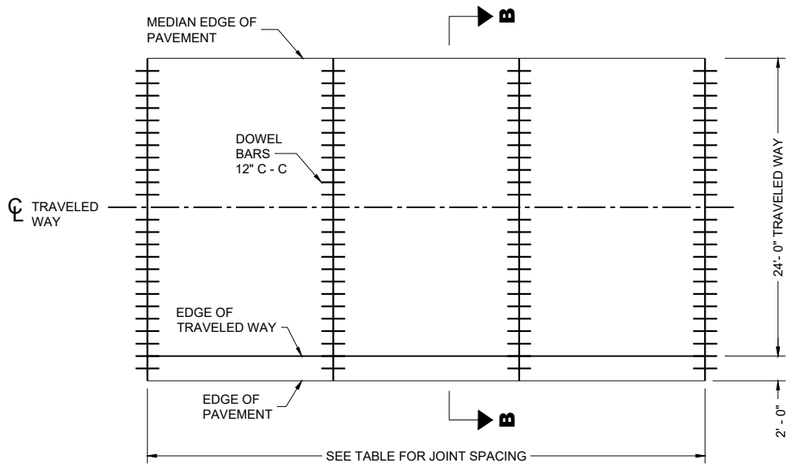
(3) SHOULDER WIDTHS LESS THAN 3 FEET SHALL BE PAVED INTEGRAL TO THE MAINLINE CONCRETE PAVEMENT, SEE SECTION B-B.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8" & ABOVE	1 ¼"	15'



CONTRACTION JOINT LAYOUT FOR TWO-LANE TWO-WAY HIGHWAY



CONTRACTION JOINT LAYOUT FOR DIVIDED HIGHWAY

6

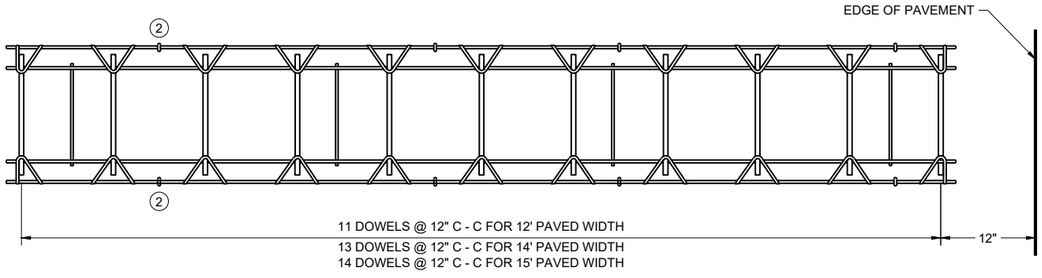
SDD 13C11-15a

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 13C11-15a



PLAN VIEW



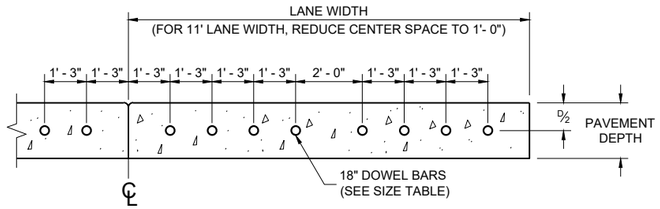
SIDE VIEW

(NORMAL TO CENTERLINE)

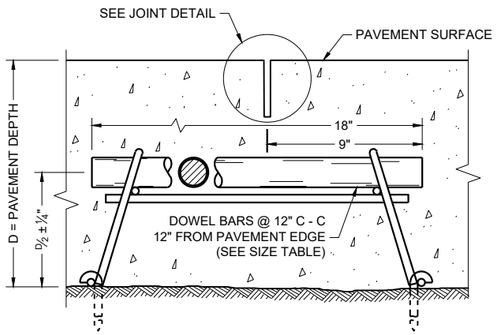
CONTRACTION JOINT DOWEL ASSEMBLY (1)

GENERAL NOTES

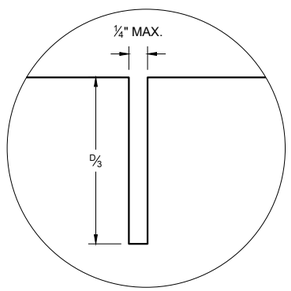
1. OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTION CONTRACTION JOINTS.
2. SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.
3. FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼" RADIUS AT FORMED JOINTS.
4. PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.
5. INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED DOWEL BAR CONSTRUCTION JOINT" DETAIL.
6. APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.
7. ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛" GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



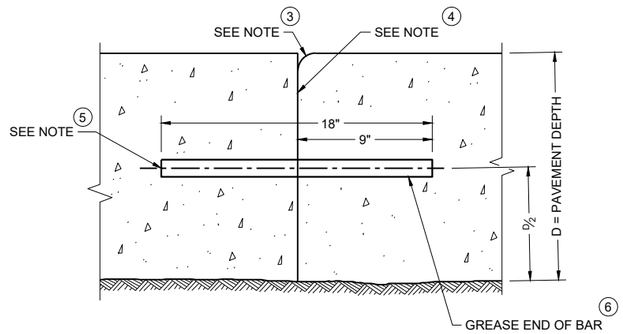
DRILLED DOWEL BAR CONSTRUCTION JOINT (7)



DOWELED CONTRACTION JOINT



JOINT DETAIL



TRANSVERSE CONSTRUCTION JOINT

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

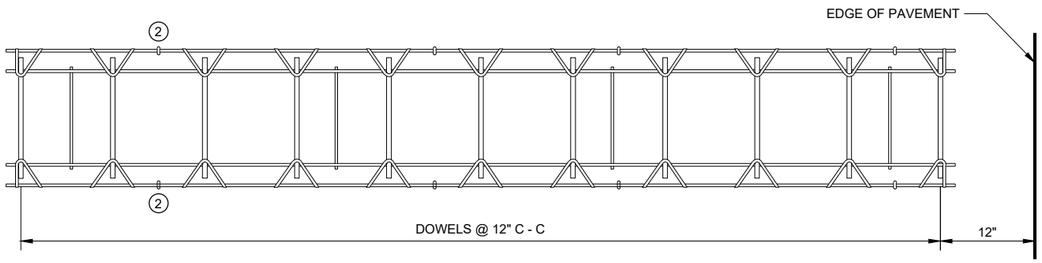
APPROVED
November 2025 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUPERVISOR

FHWA

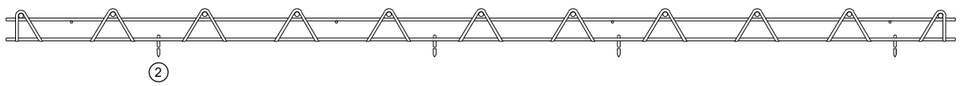
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SDD 13C11-15b

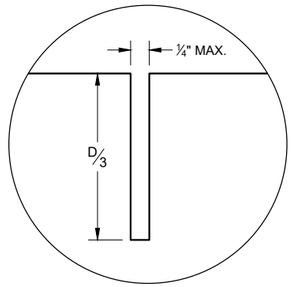


PLAN VIEW



SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY (1)



JOINT DETAIL

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

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

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES FROM AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

(1) OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTION CONTRACTION JOINTS.

(2) SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

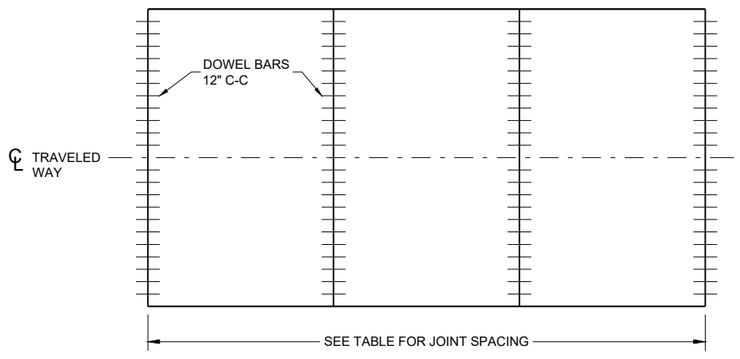
(3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼" RADIUS AT FORMED JOINTS.

(4) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

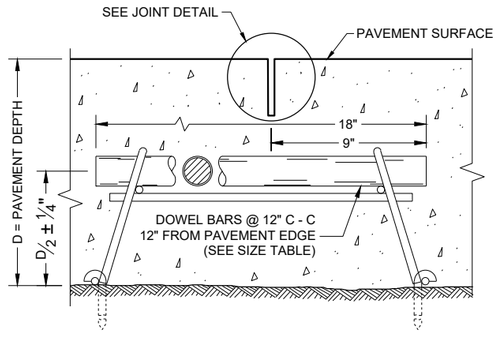
(5) INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED DOWEL BAR CONSTRUCTION JOINT" DETAIL.

(6) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

(7) ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛" GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



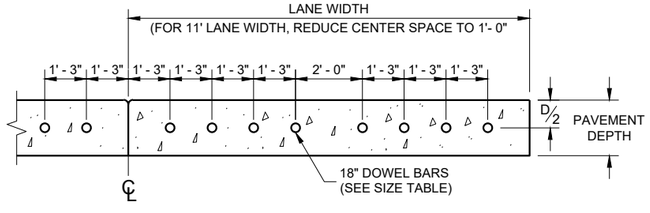
CONTRACTION JOINT LOCATIONS



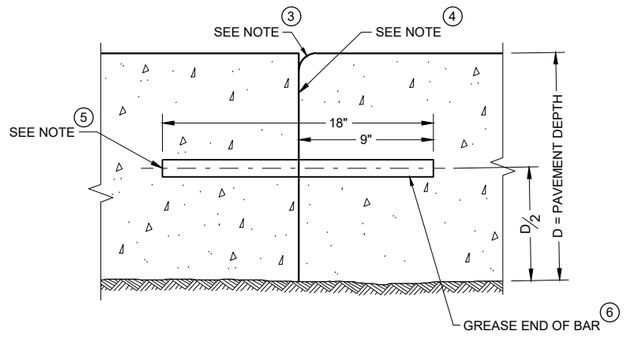
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8" & ABOVE	1 ¼"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT (7)



TRANSVERSE CONSTRUCTION JOINT

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

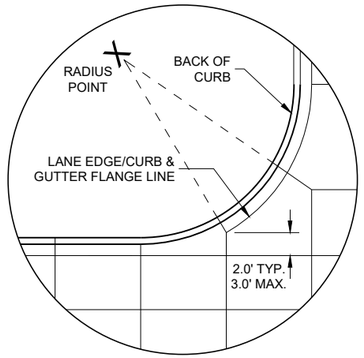
APPROVED
November 2022
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

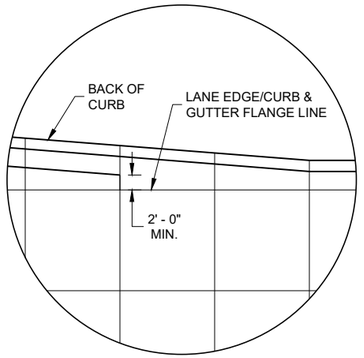
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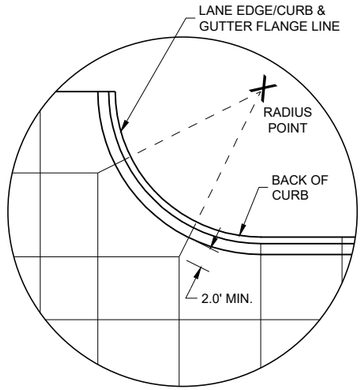
SDD 13C13 - 11



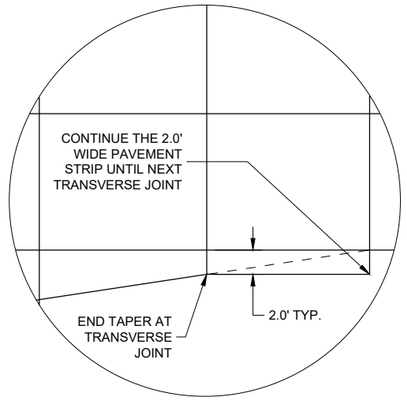
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

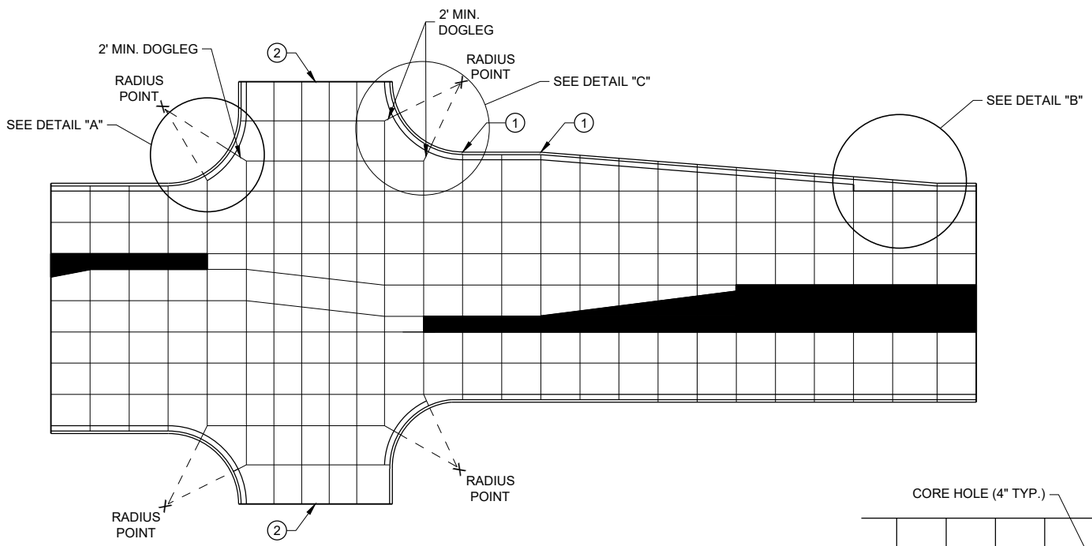
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.

(2) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.

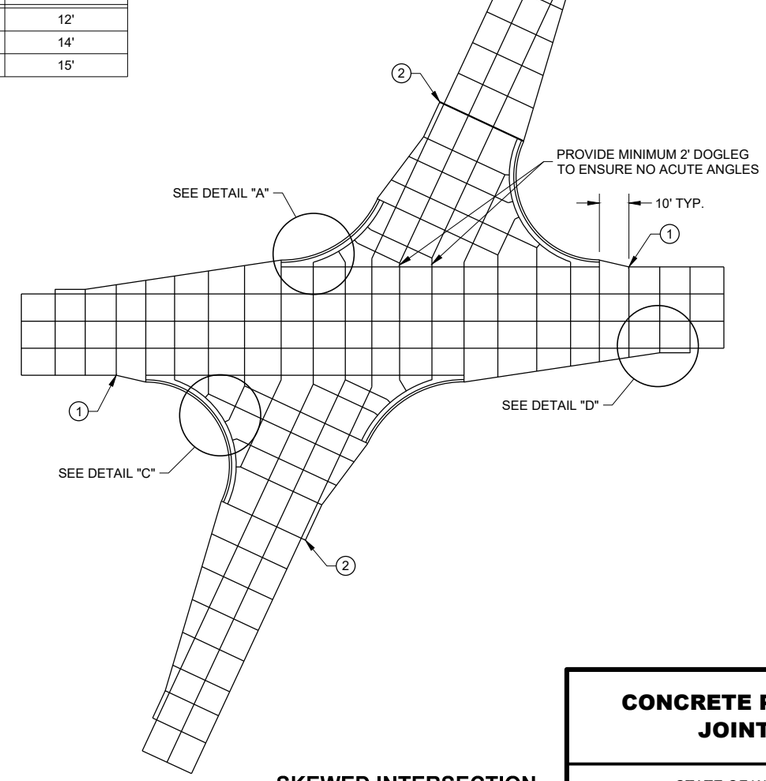
(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



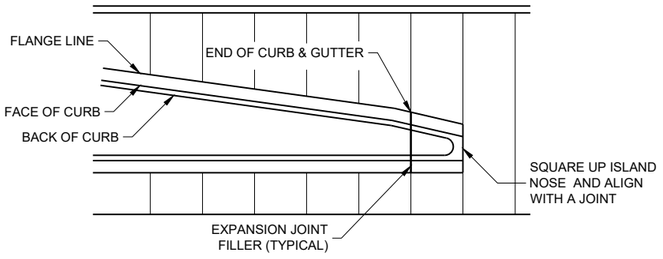
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

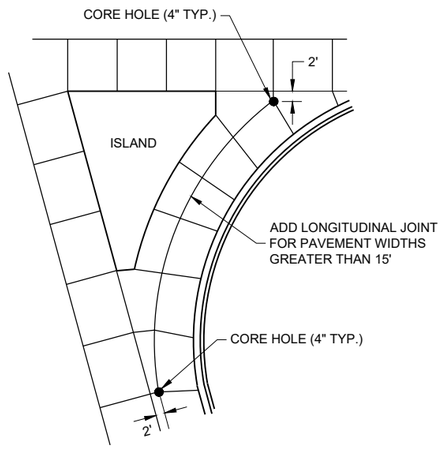
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 08a

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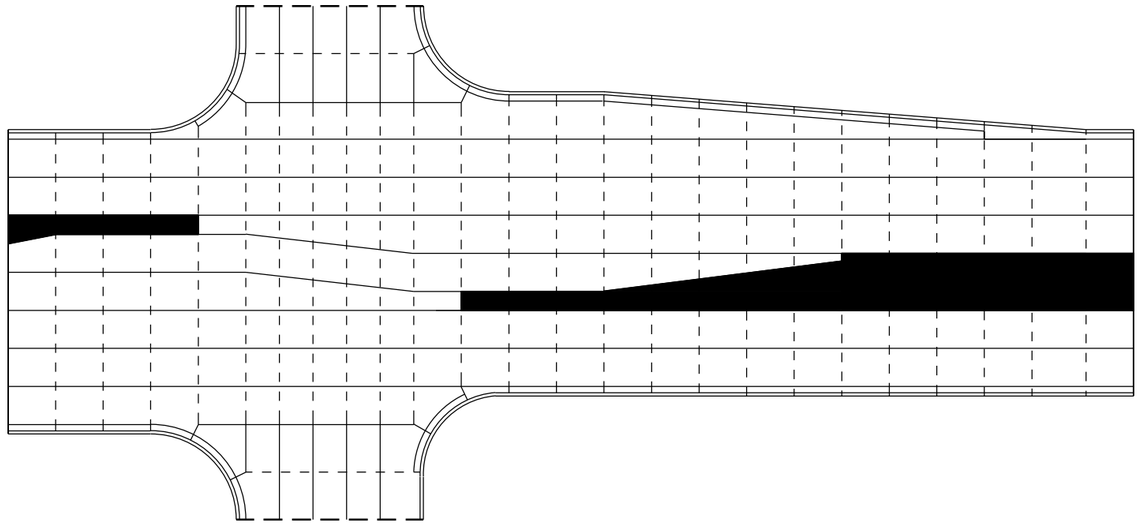
SDD 13C18 - 08a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

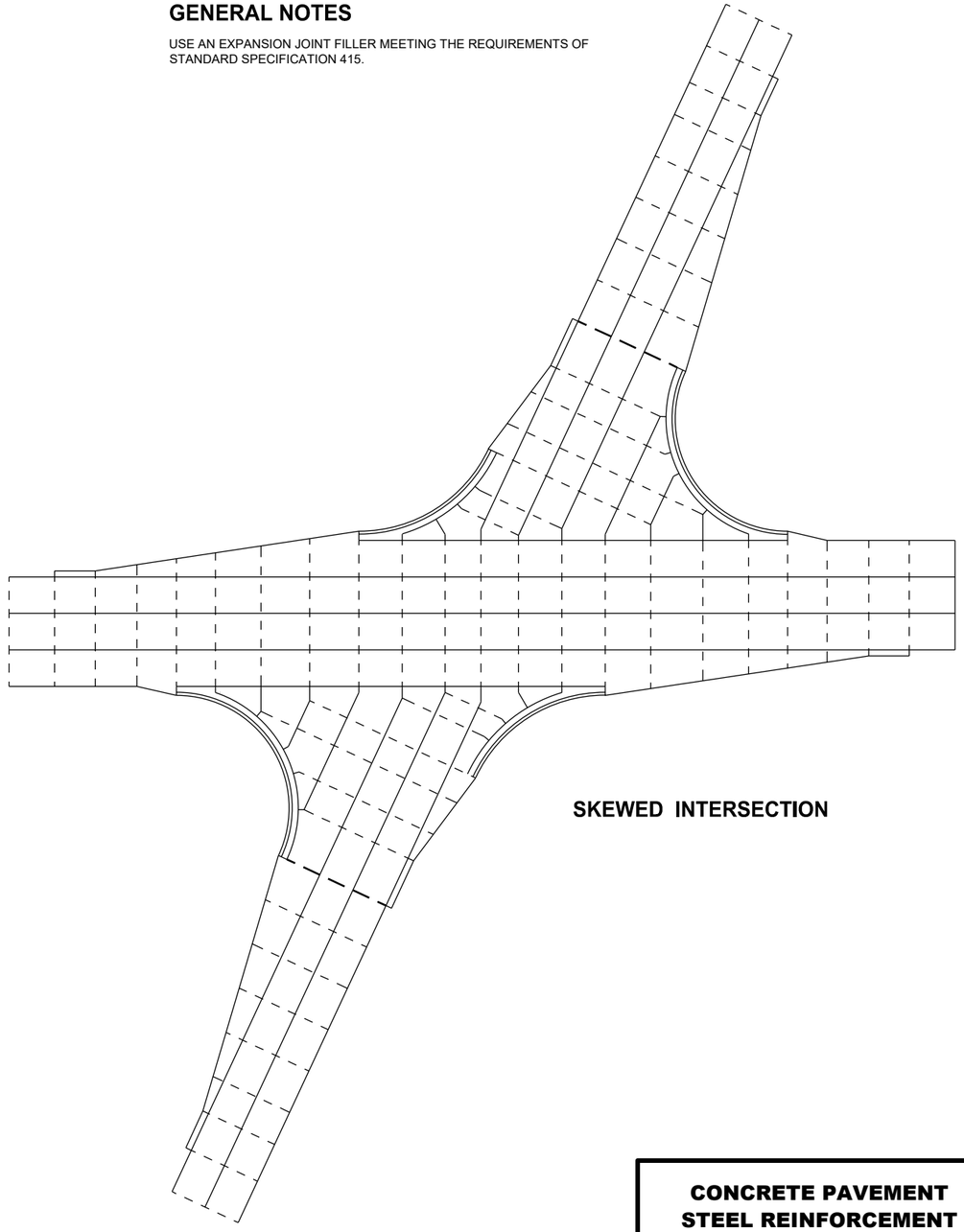
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

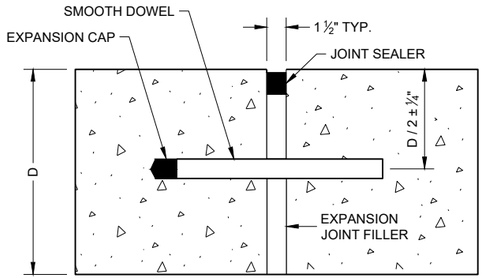
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SDD 13C18 - 08b

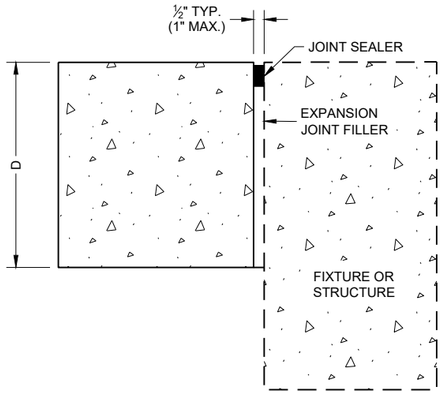
CONCRETE PAVEMENT STEEL REINFORCEMENT

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SDD 13C18 - 08b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

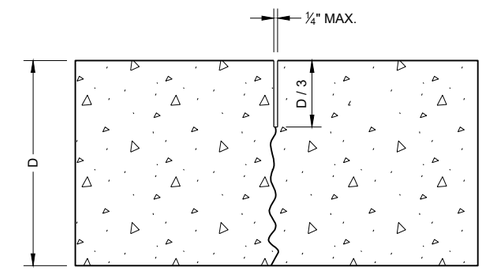
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

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

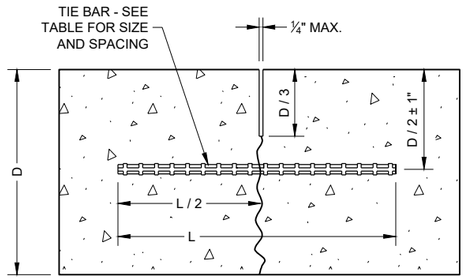
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

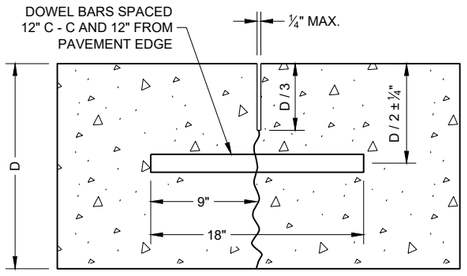
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

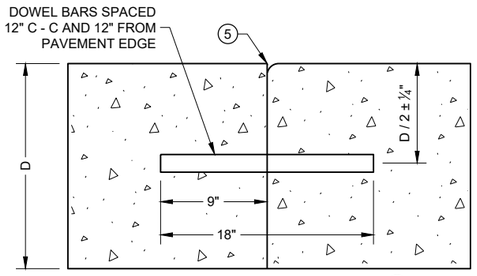


TIED LONGITUDINAL

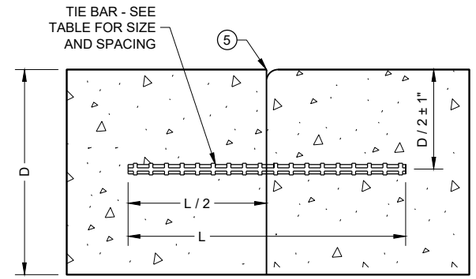


DOWELED TRANSVERSE

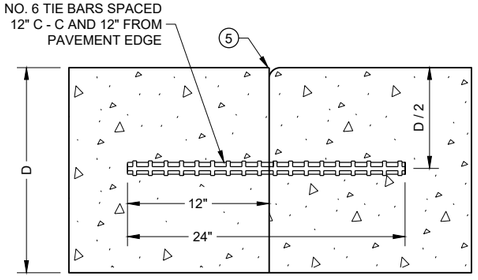
CONTRACTION JOINTS (2)



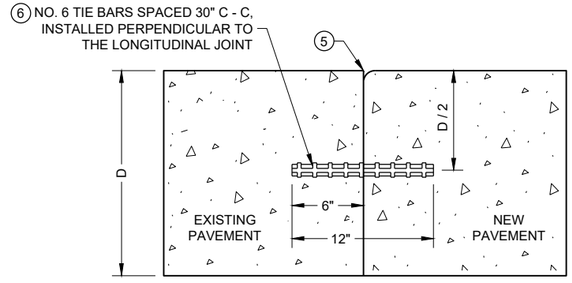
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



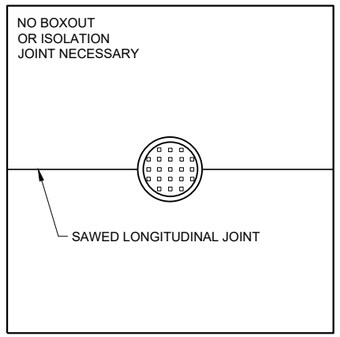
TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



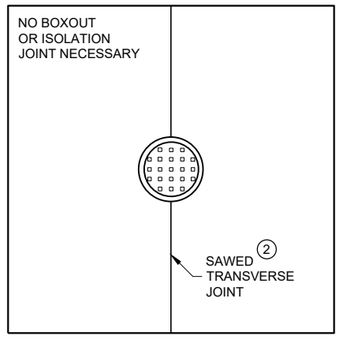
TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS (4)

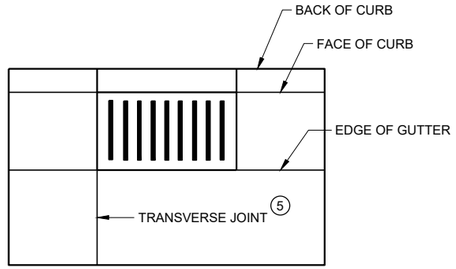
CONCRETE PAVEMENT JOINT TYPES



MANHOLE WITH LONGITUDINAL JOINT



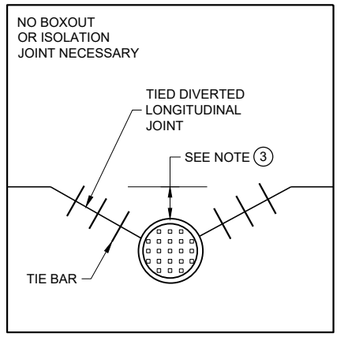
MANHOLE WITH TRANSVERSE JOINT



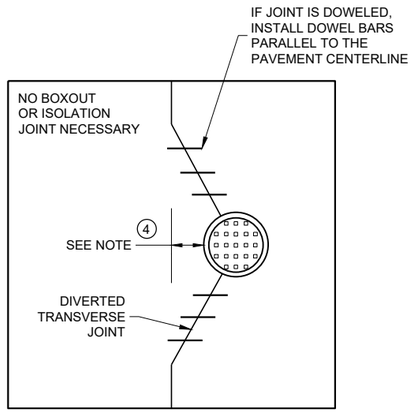
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

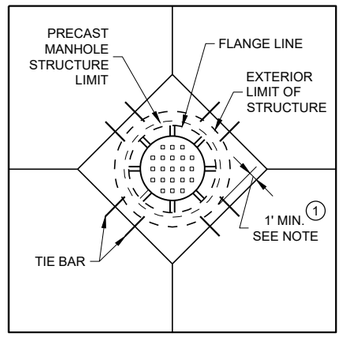
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

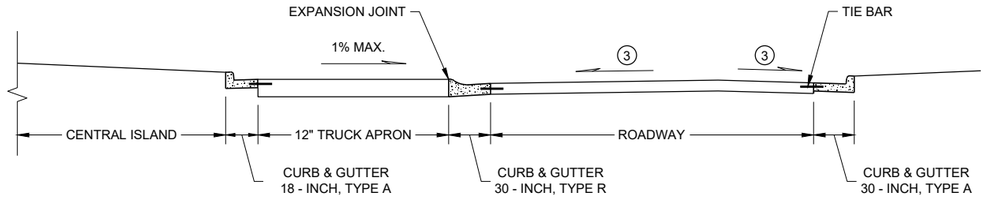
/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

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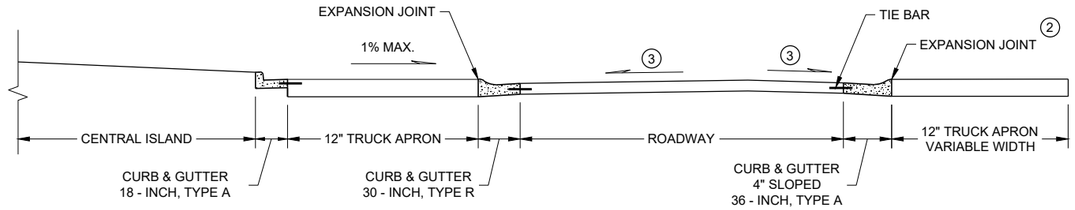
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SDD13C18 - 08d

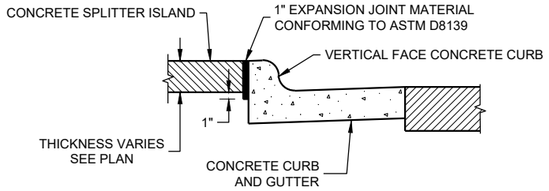
SDD13C18 - 08d



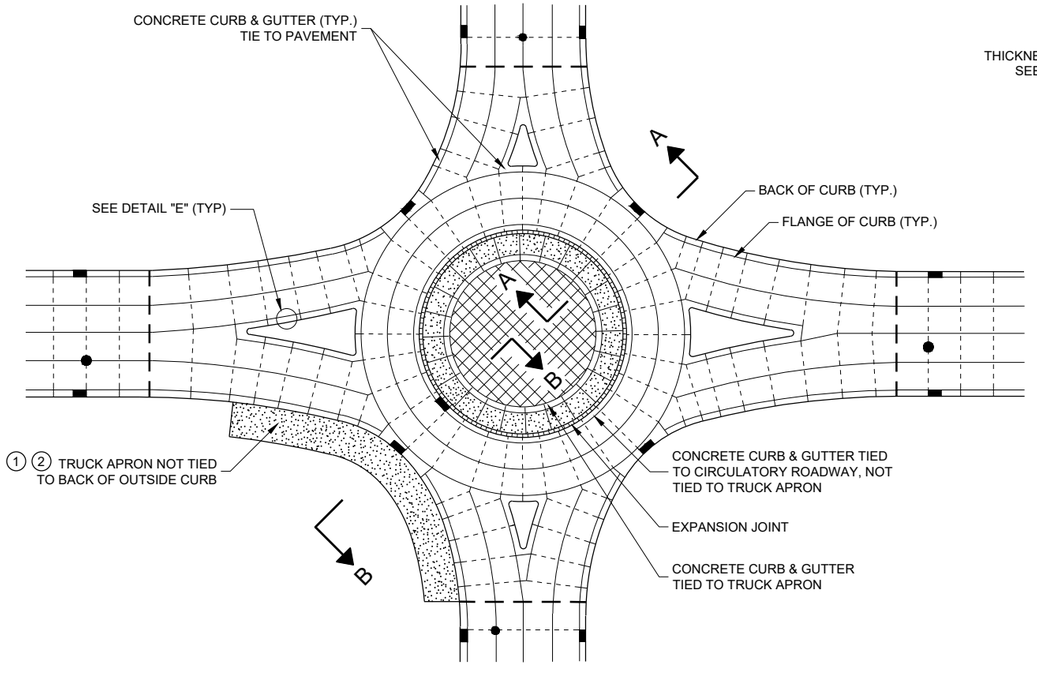
SECTION A - A



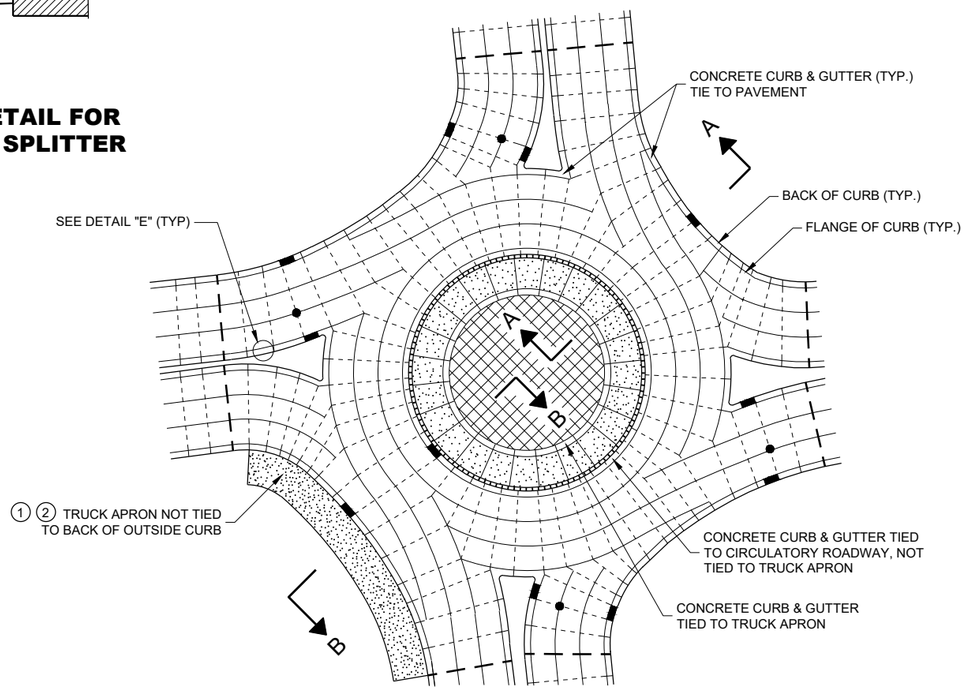
SECTION B - B



DETAIL 'E'
EXPANSION JOINT DETAIL FOR VERTICAL CURB AT A SPLITTER ISLAND



ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS



PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

GENERAL NOTES

MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18 - SHEET "a"

USE EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.

(1) DESIGNER DETERMINES SIZE AND LOCATION(S) OF TRUCK APRON TO ACCOMMODATE TRACKING OF OVERSIZE / OVERWEIGHT VEHICLES.

(2) TIE THE OUTSIDE TRUCK APRON TO THE BACK SIDE OF CURB ONLY WHEN ENTIRE TRUCK APRON IS LESS THAN 3 FEET.

(3) CONFORM TO PLAN CONSTRUCTION DETAILS FOR CIRCULATORY ROADWAY CROSS SLOPE.

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES

CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

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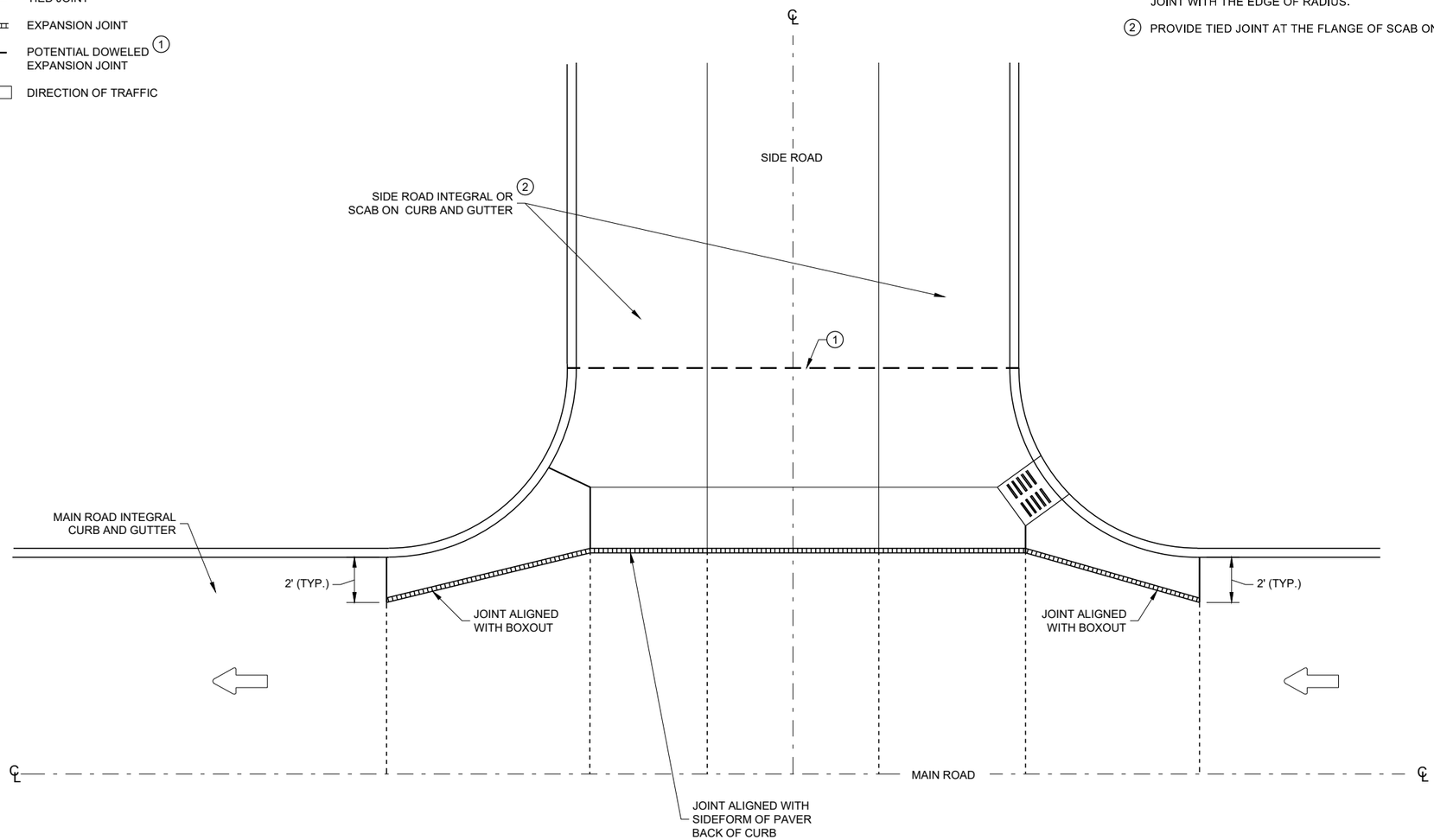
SDD 13C18 - 08e

6

SDD 13C18 - 08e

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT (1)
- DIRECTION OF TRAFFIC



GENERAL NOTES

(1) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH THE EDGE OF RADIUS.

(2) PROVIDE TIED JOINT AT THE FLANGE OF SCAB ON CURB IF SCAB ON CURB AND GUTTER IS USE.

INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

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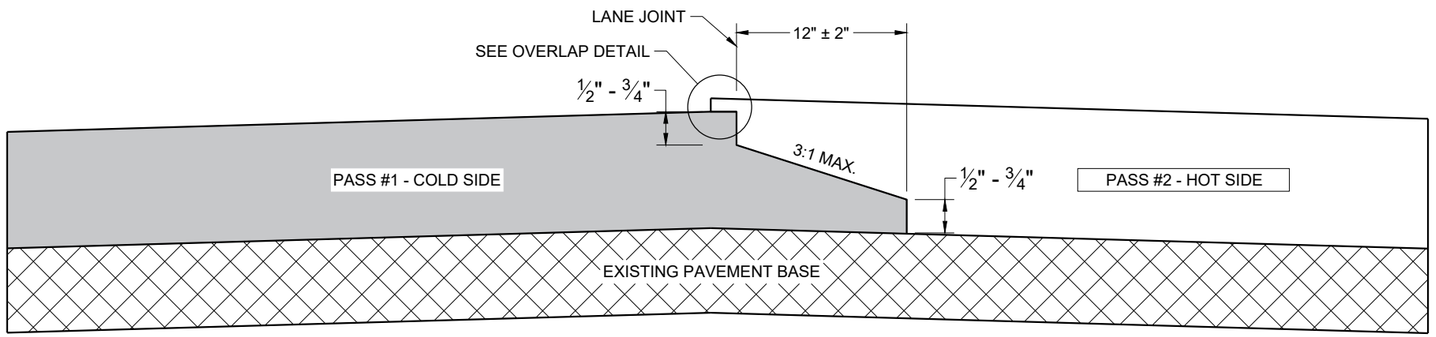
FHWA

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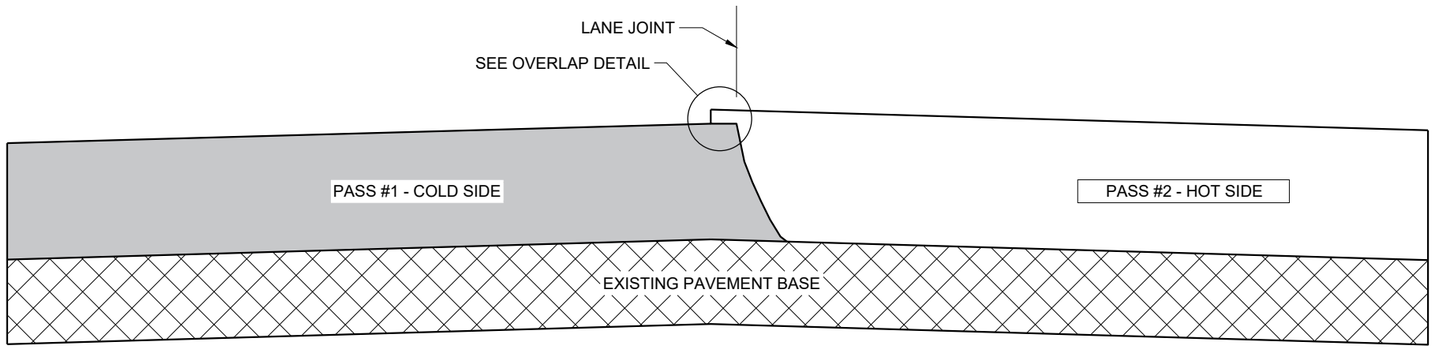
SDD 13C18 - 08f

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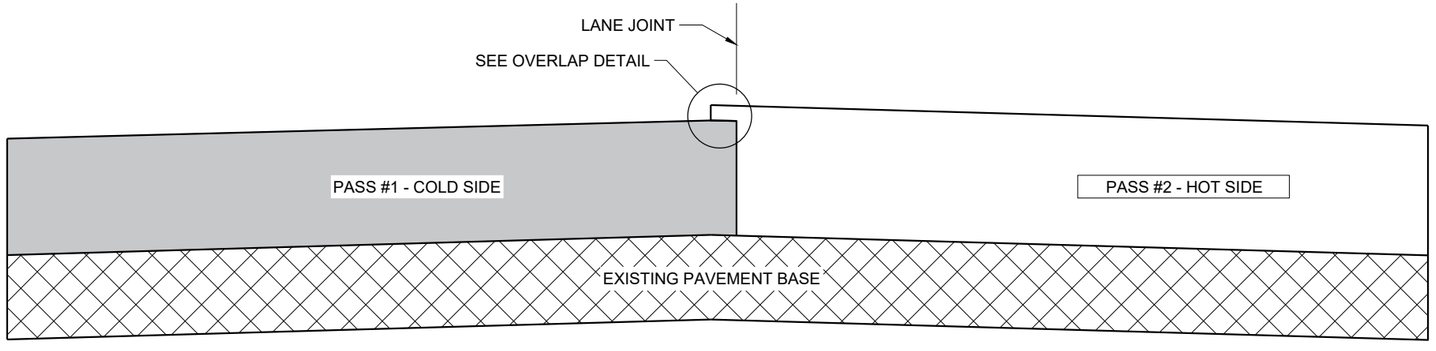
SDD 13C18 - 08f



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

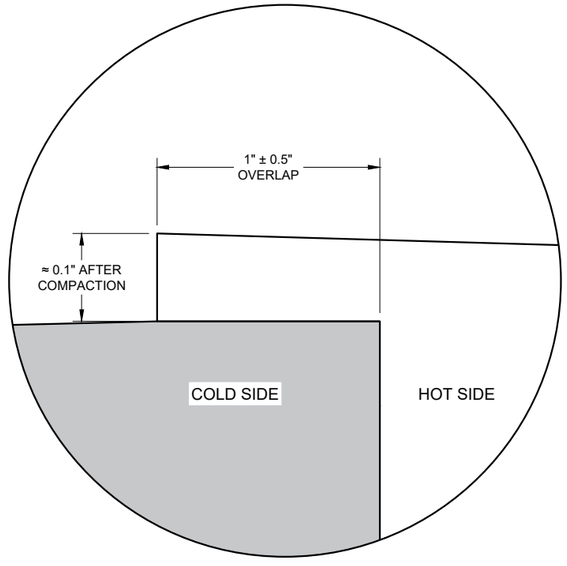
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

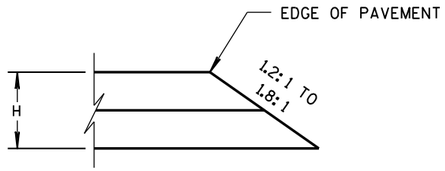
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

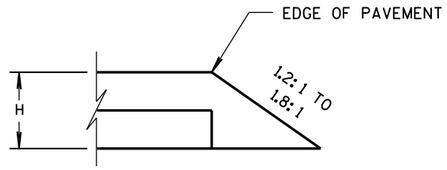
/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



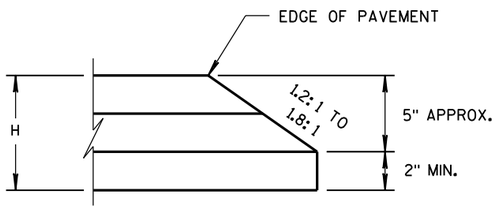
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



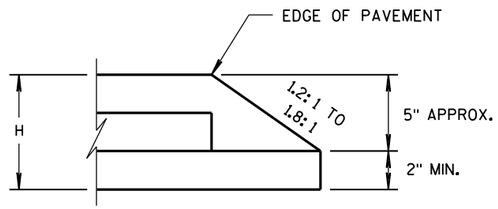
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

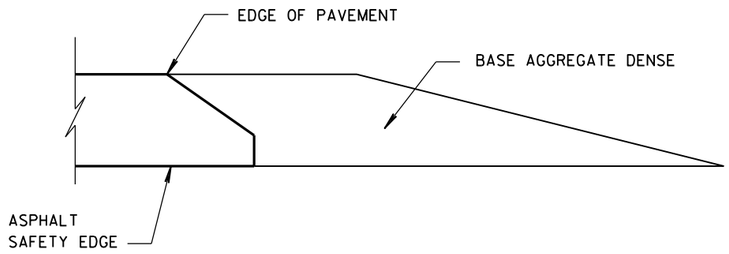
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

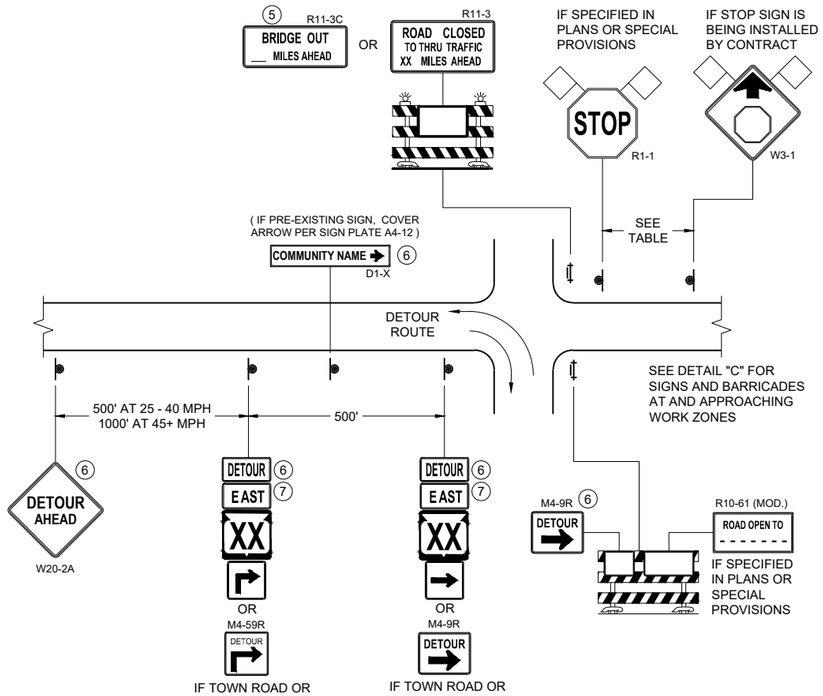
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

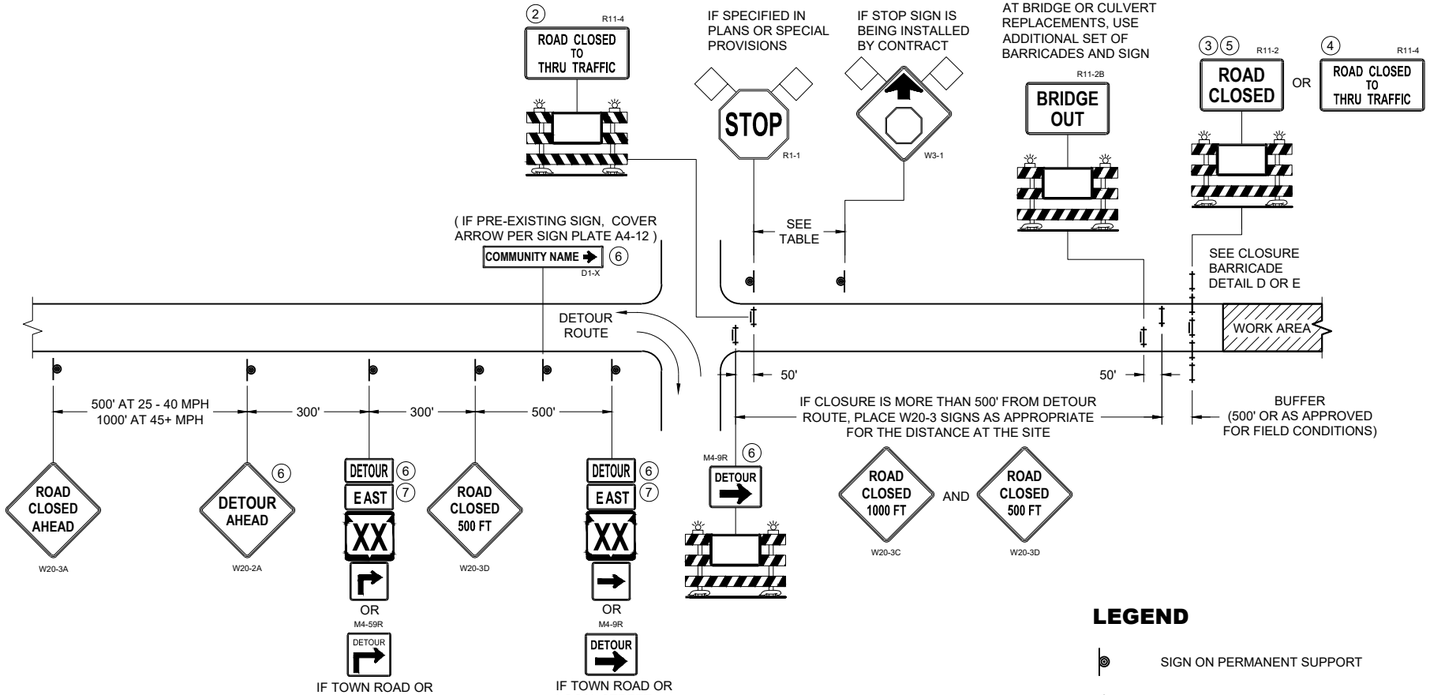
/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA



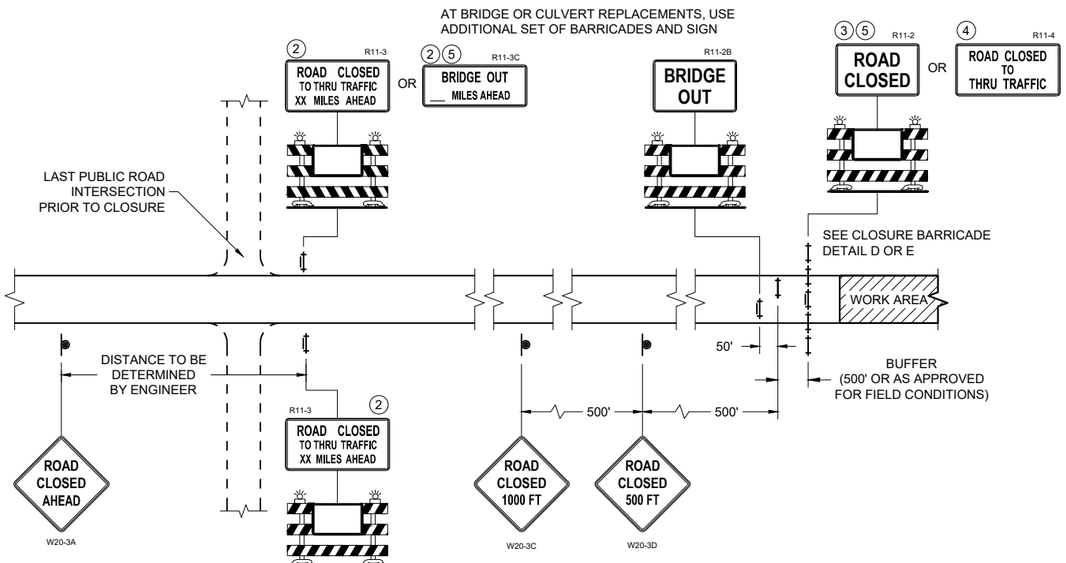
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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)



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)

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)

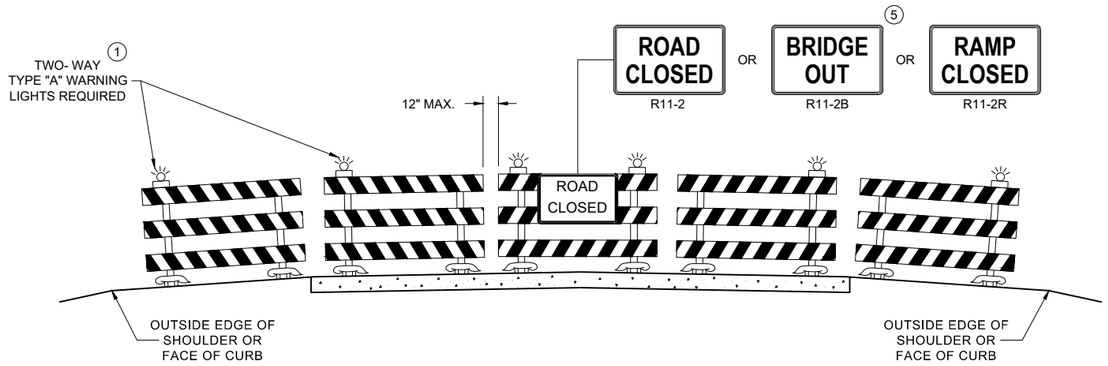
DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

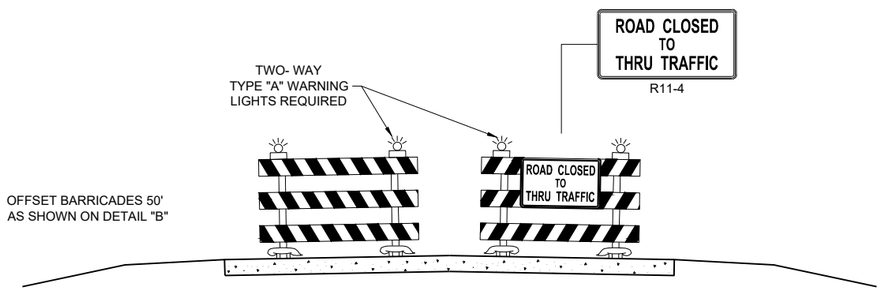
6
SDD 15C02-10a



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.

PARTIAL NUMBERS ON SIGNS SHALL BE DISPLAYED AS A WHOLE NUMBER(AS NEEDED) FOLLOWED BY A FRACTION. SIGNS SHALL NOT DISPLAY NUMBERS IN DECIMAL FORM.

"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"

SIGNS PLACED ON TYPE III BARRICADES THAT ARE SIZES OTHER THAN 48"X30" SHALL HAVE A CORRUGATED POLYPROPYLENE OR POLYETHYLENE PLASTIC SIGN BASE.

(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
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6

SDD 15C02-10b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

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.

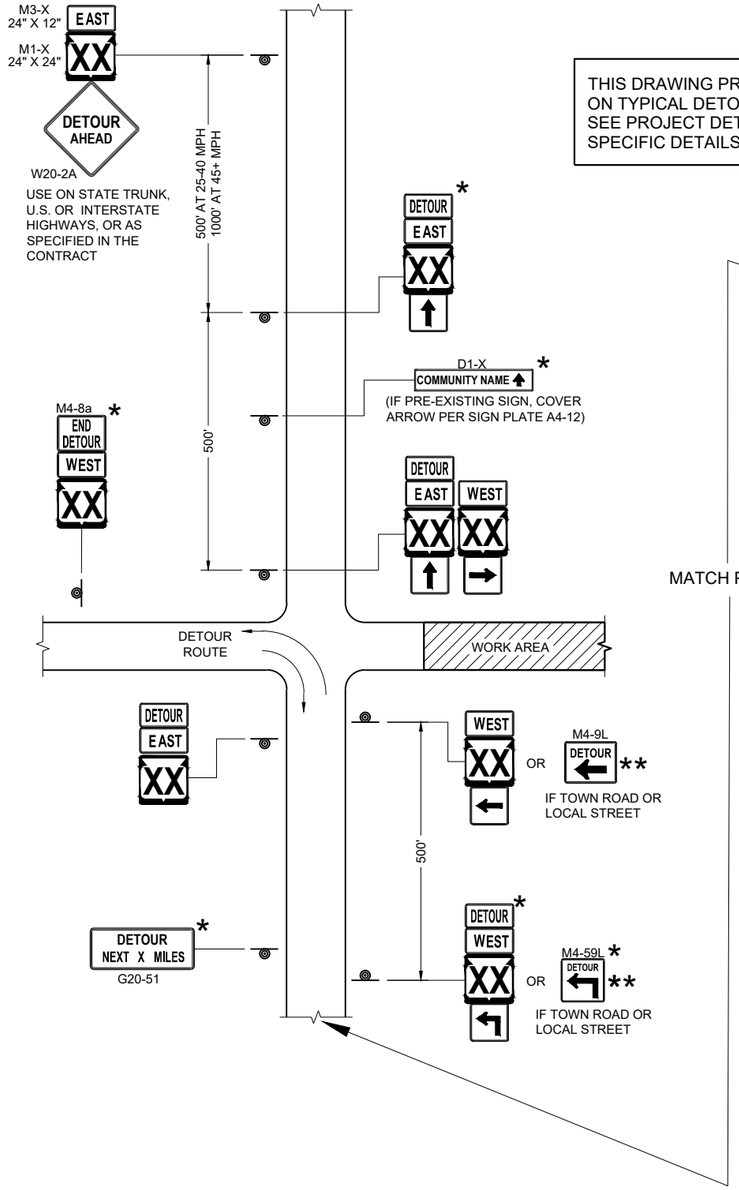
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

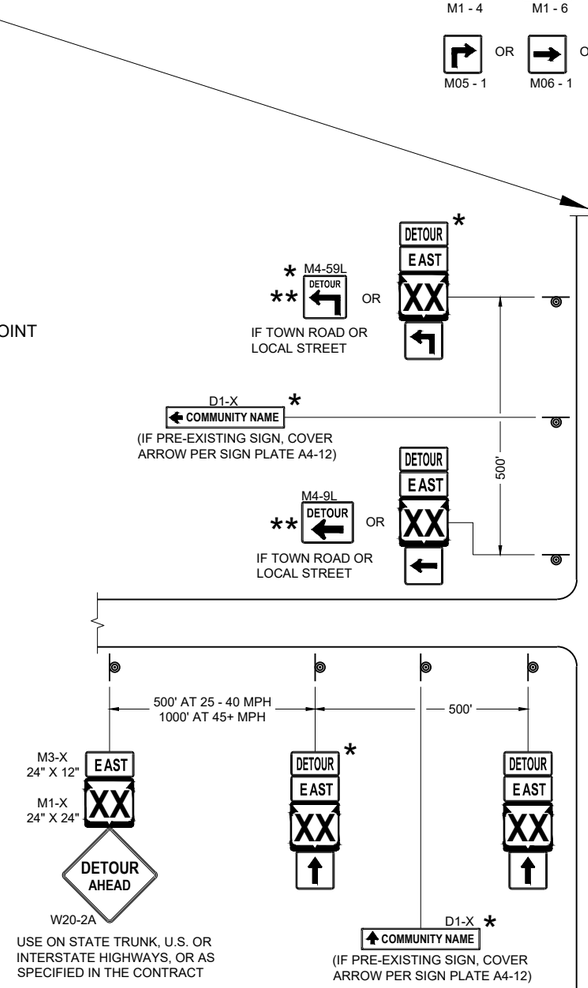
SIGN SIZES SHALL BE AS FOLLOWS:

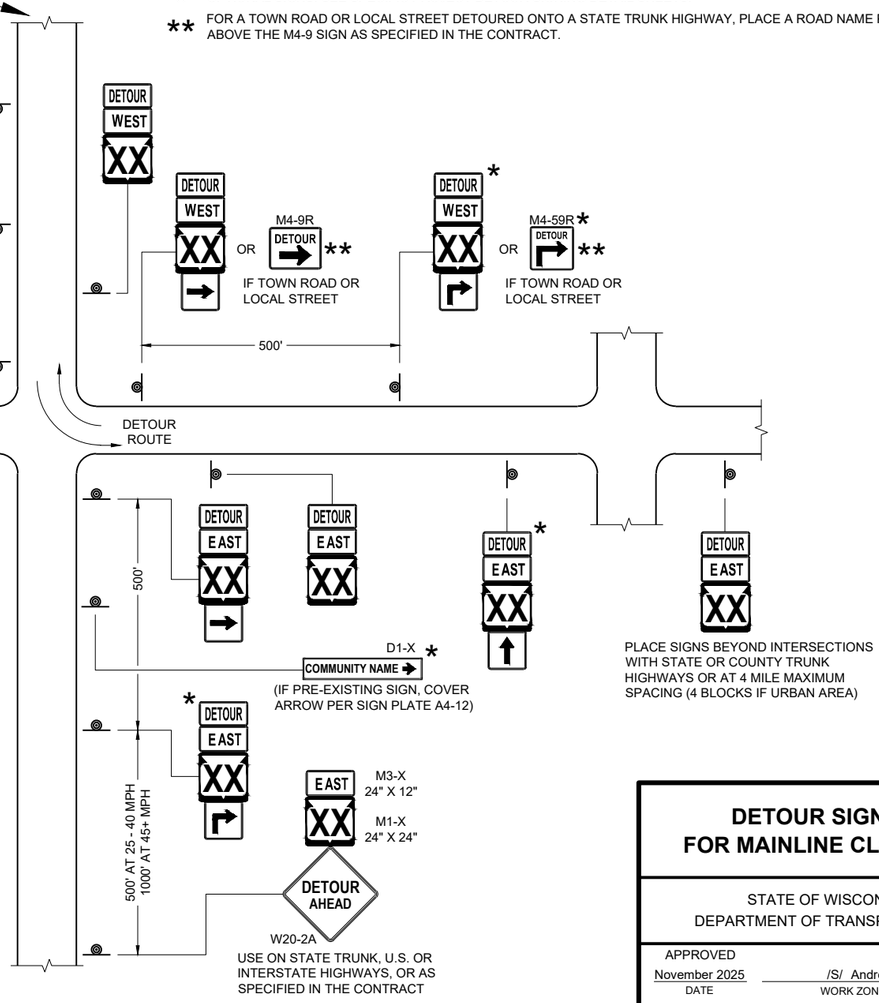
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING 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.







SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6

SDD 15C02-10c

GENERAL NOTES

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

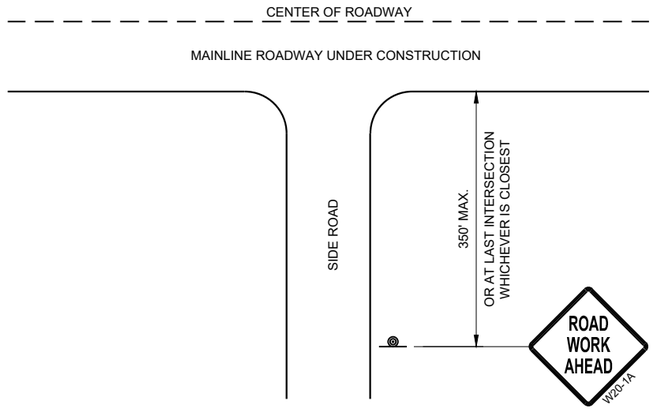
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

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

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

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



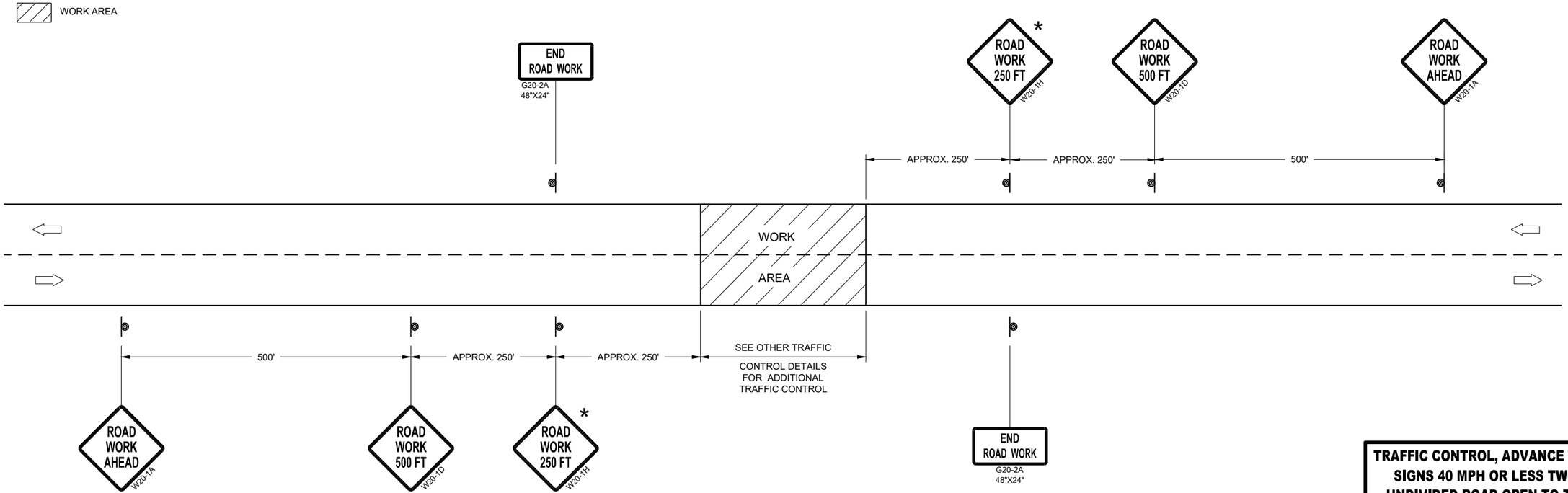
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C05 - 05

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.

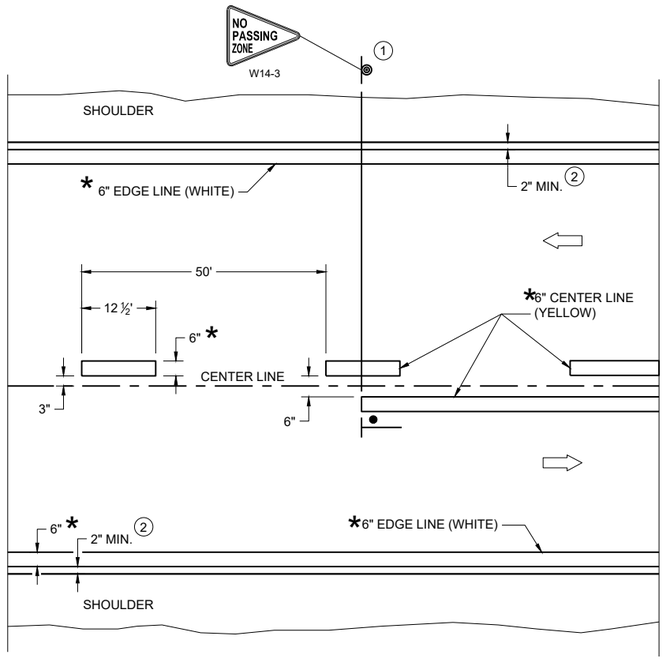
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

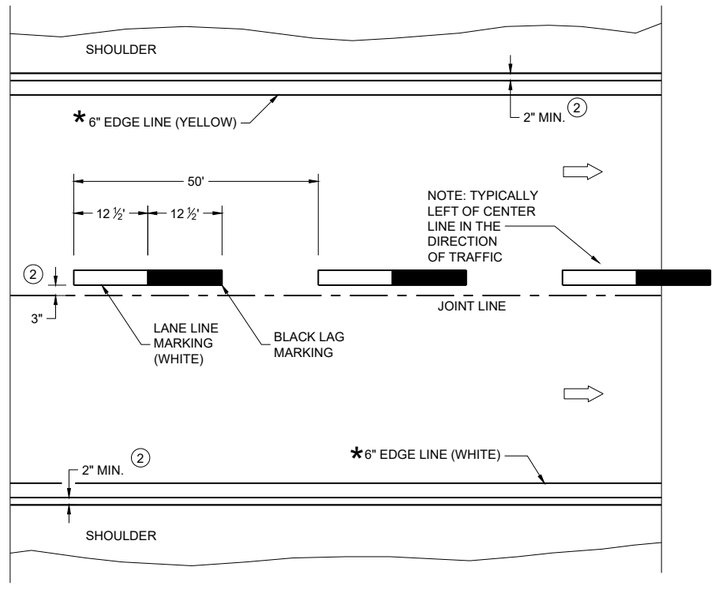
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

6

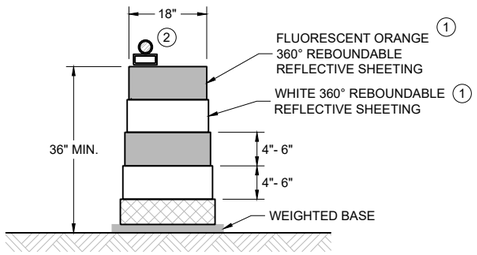
SDD 15C08-24a

SDD 15C08-24a

GENERAL NOTES

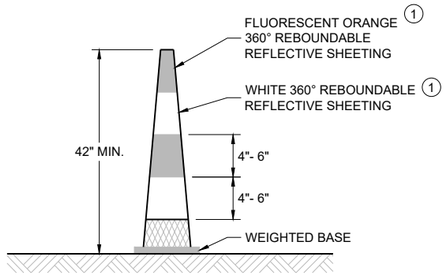
(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

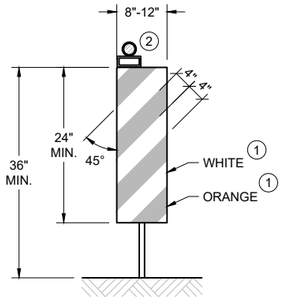
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

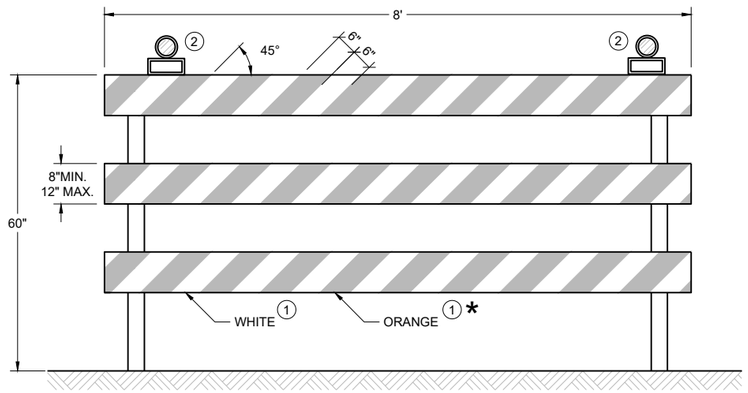
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



VERTICAL PANEL

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



TYPE 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
February 2026 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6
SDD 15C11-11b

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.

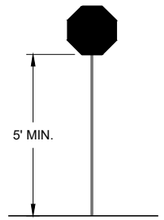
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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

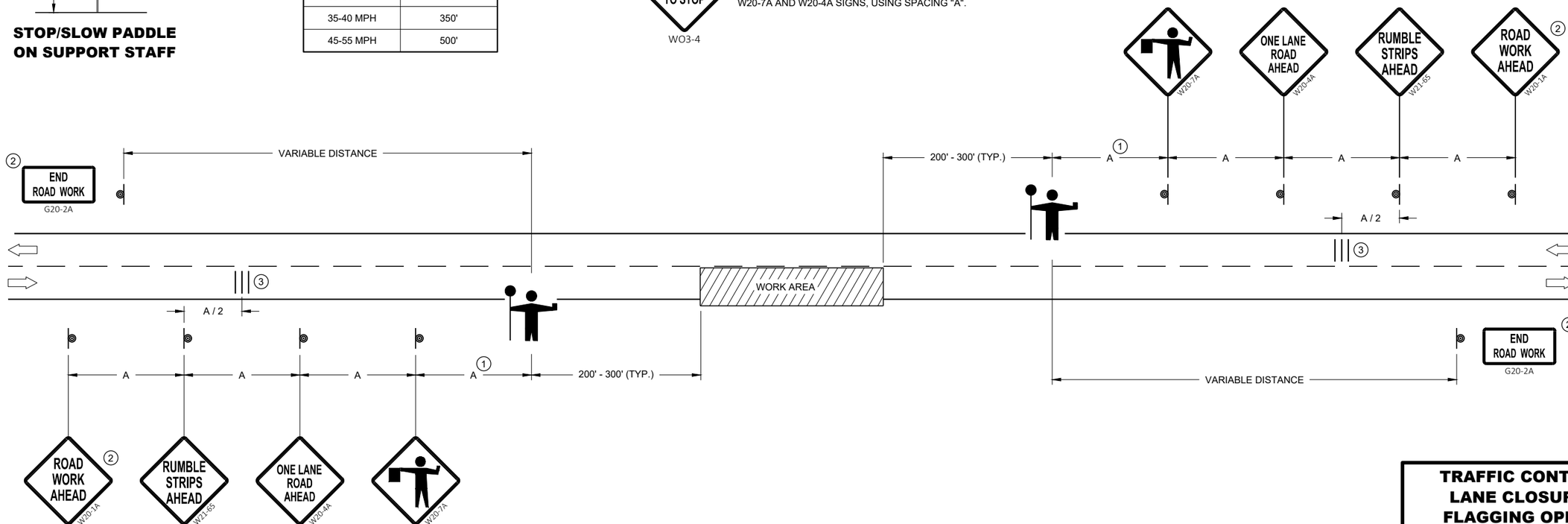
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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

6

SDD 15C12 - 09a

6

SDD 15C12 - 09a

GENERAL NOTES

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL CONE 42-INCH

TRAFFIC CONTROL DRUM

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

AFAD — AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

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

IF THE AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) STOPS WORKING, 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.

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.

(1) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(2) IF FLAGGERS ARE PHYSICALLY NEEDED TO FLAG, REPLACE WO3-4 SIGNS WITH W20-7A SIGNS.

TEMPORARY PORTABLE RUMBLE STRIPS

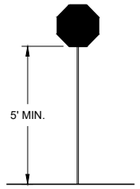
UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

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.

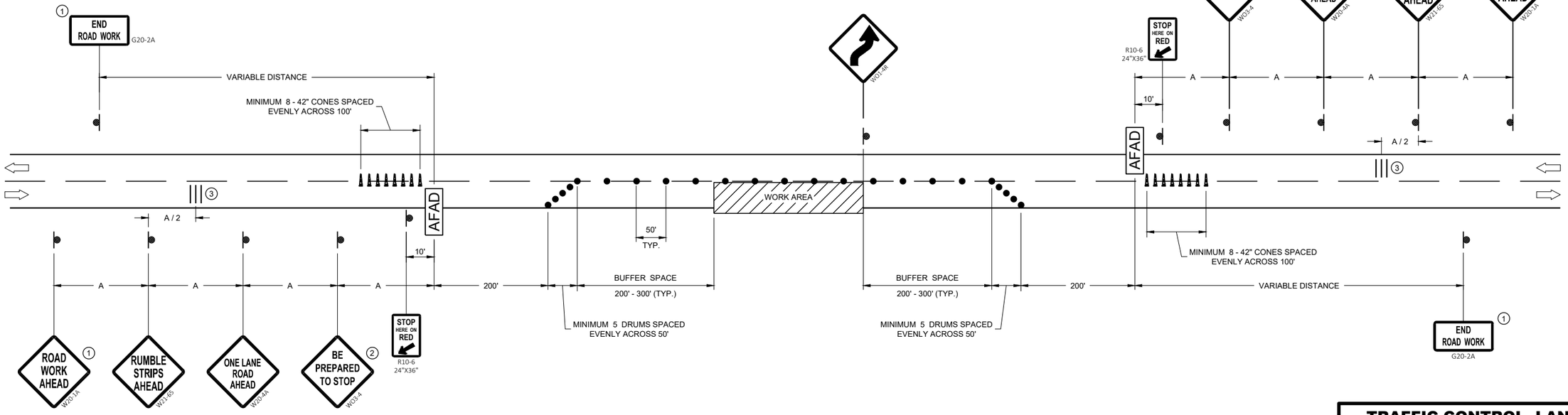
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSELY AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER.



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'



TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

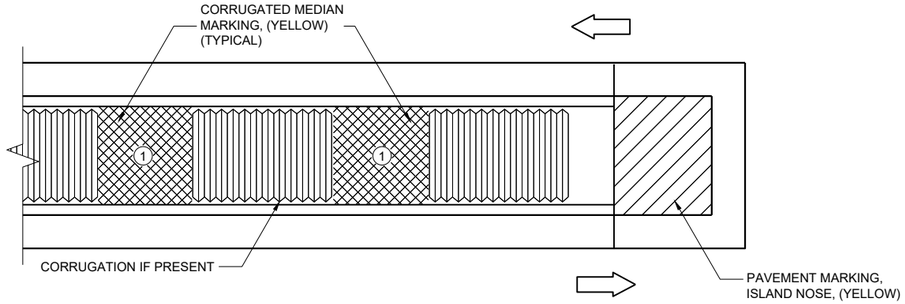
FHWA

6

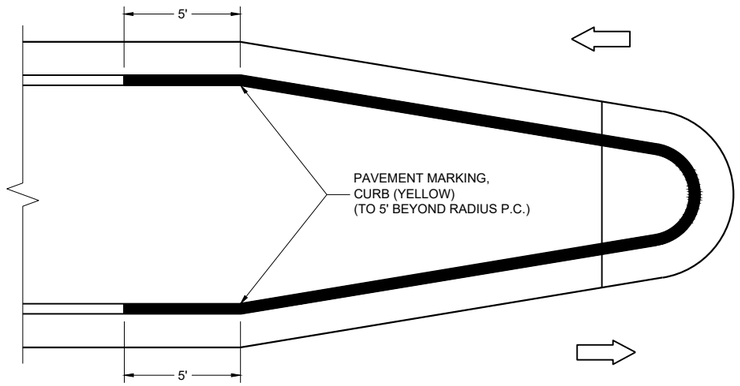
SDD 15C12 - 09b

6

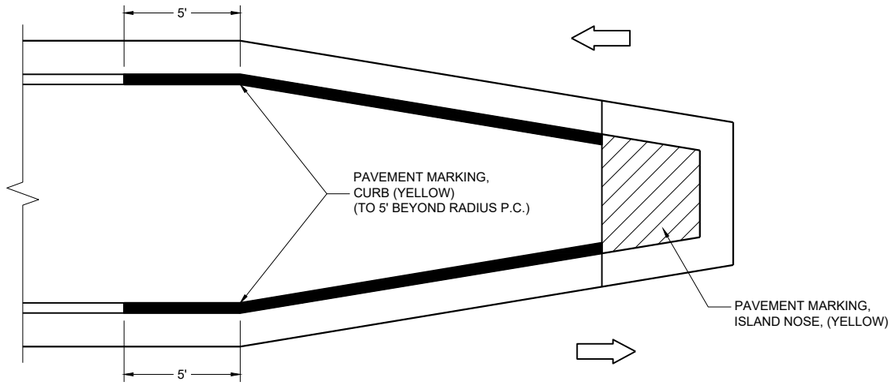
SDD 15C12 - 09b



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

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

GENERAL NOTES

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

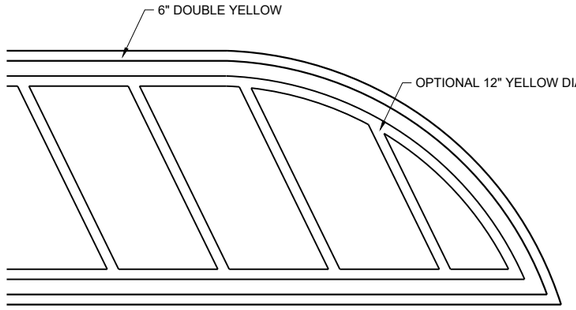
(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL



FLUSH MEDIAN ISLAND NOSE

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

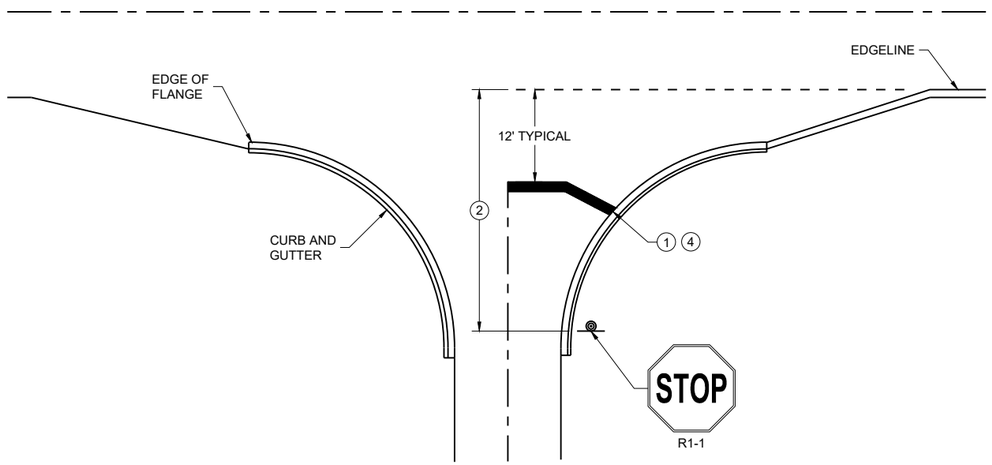
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SDD 15C18-09b

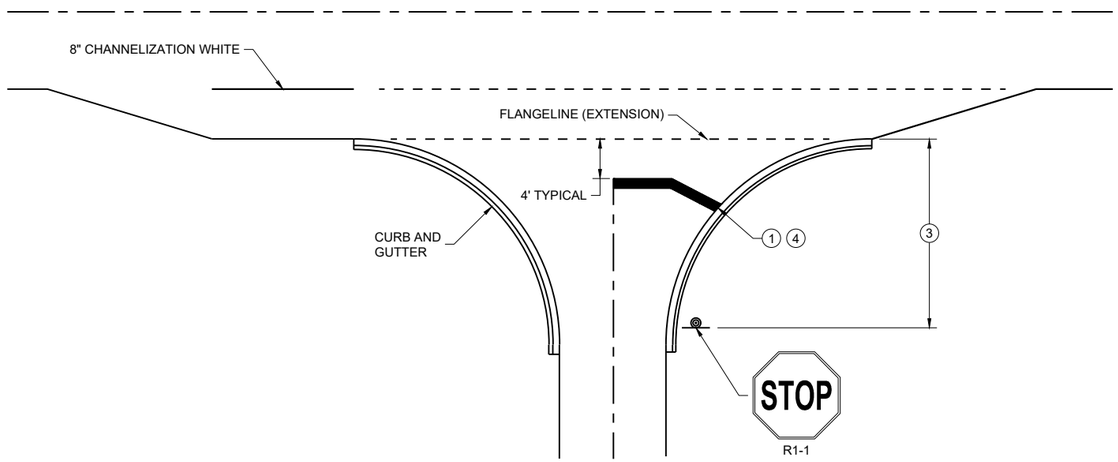
GENERAL NOTES

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

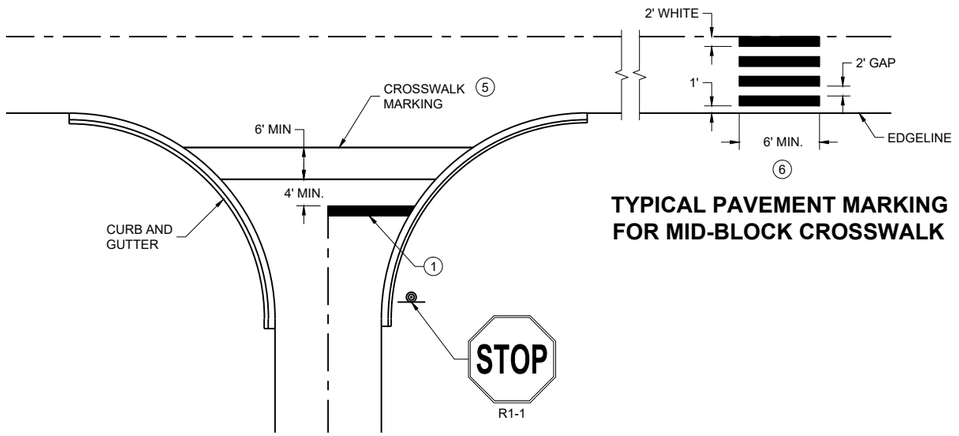
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE 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

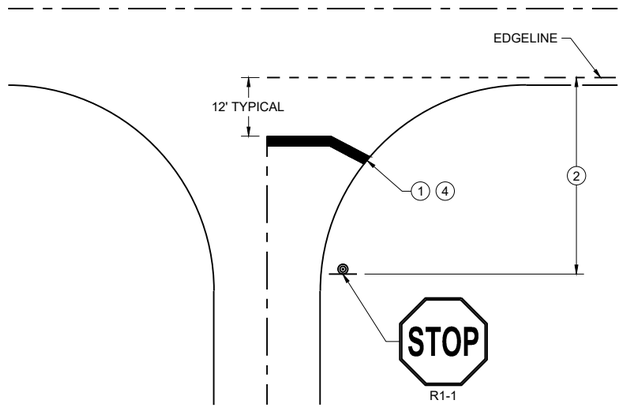


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK (5)

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH CROSSWALK MARKING



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

6
SDD 15C33-05

LEGEND

- EXISTING SIGN ON PERMANENT SUPPORT
- NEW SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK ZONE

GENERAL NOTES

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

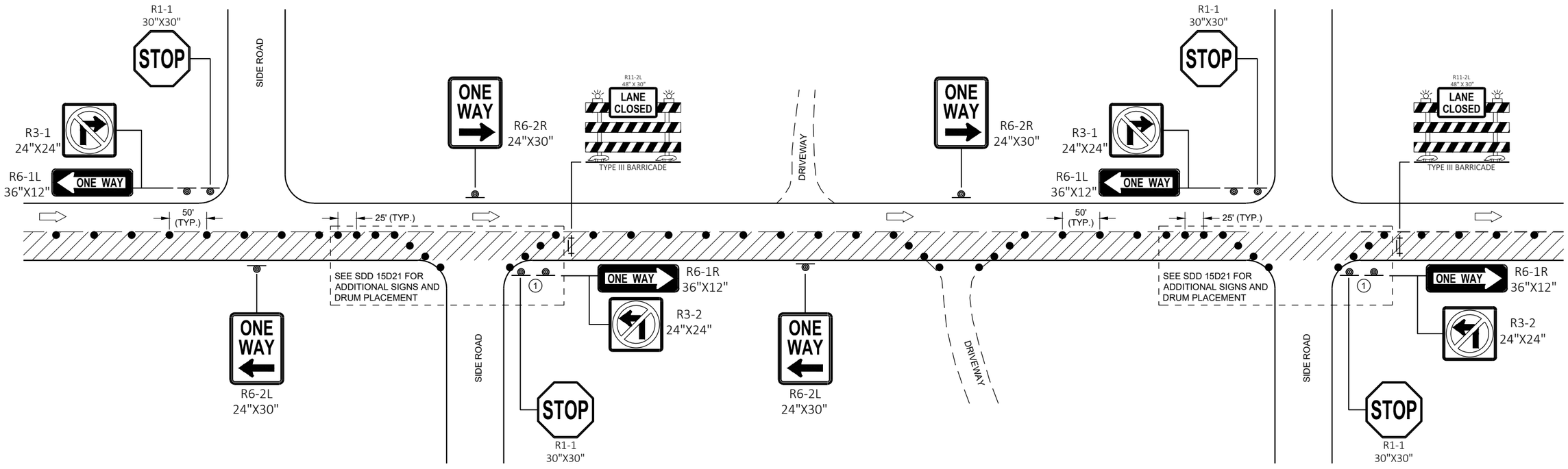
ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

BARRICADES IN A CLOSED LANE 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.

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

(1) IF WORK OPERATIONS ALLOWS, MOVE R1-1, R6-1R, AND R3-2 CLOSER TO INTERSECTION.



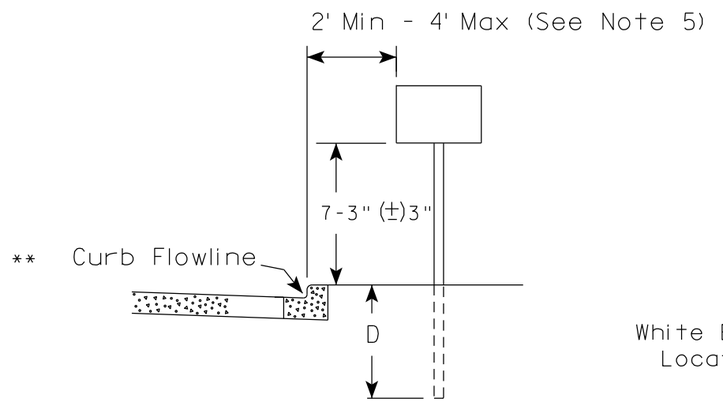
TRAFFIC CONTROL
ONE - WAY SIGNING

TRAFFIC CONTROL ONE-WAY SIGNING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2020 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEE
FHWA	

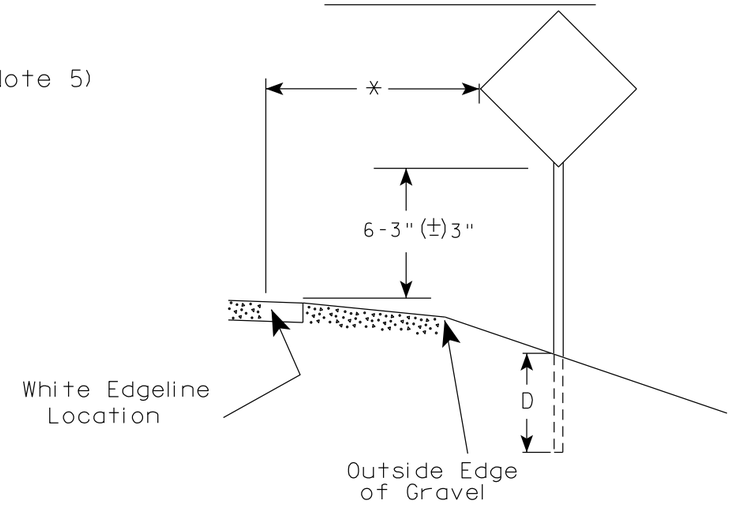
SDD 15D46 - 01

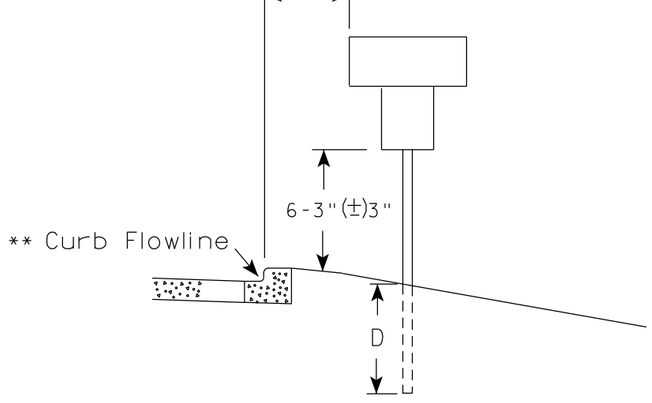
SDD 15D46 - 01

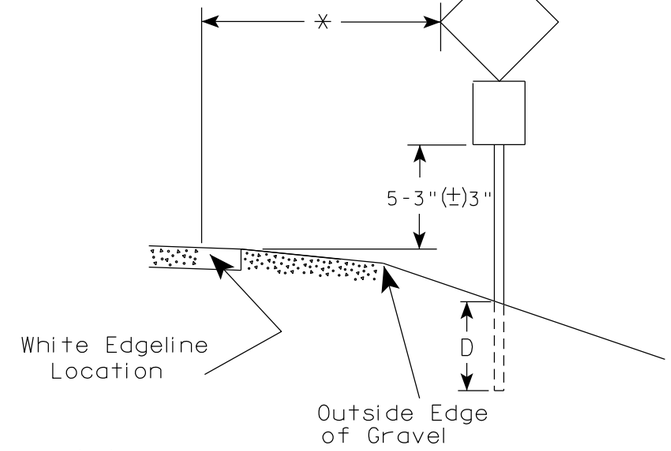
URBAN AREA



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'

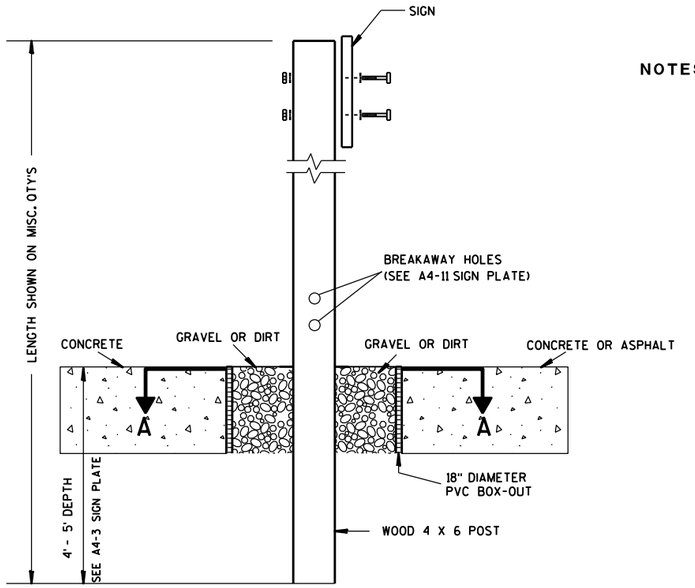
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

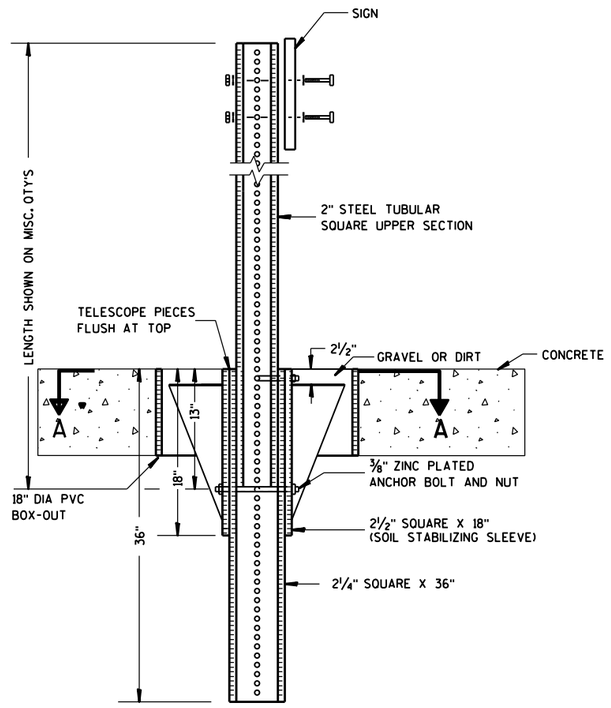
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 199	E



ELEVATION VIEW

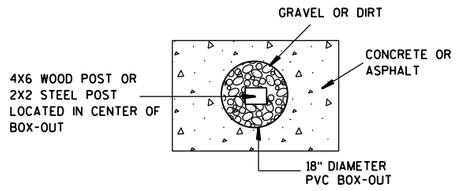
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

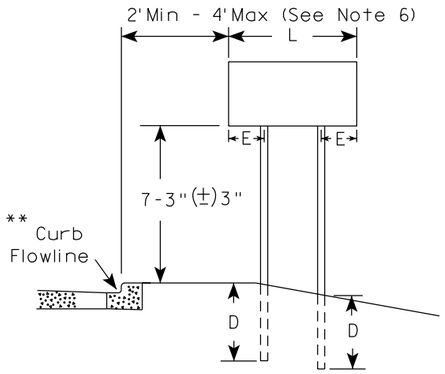
APPROVED Matthew R Rauch
for State Traffic Engineer

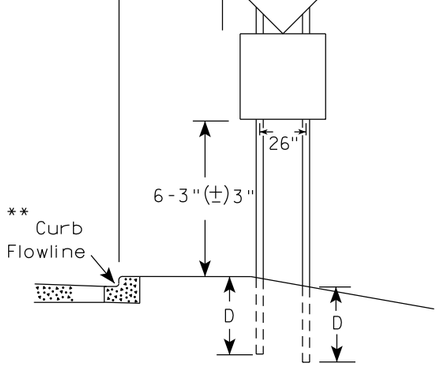
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

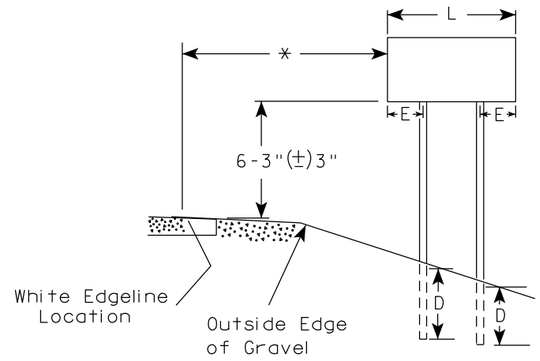
URBAN AREA

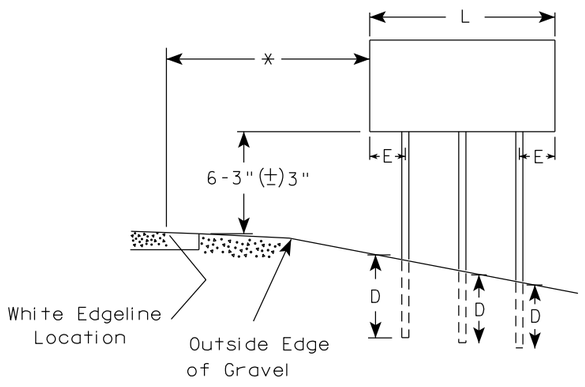


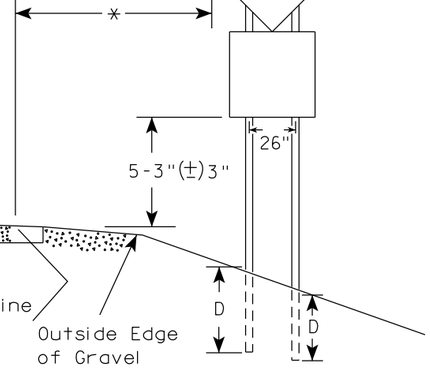


48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN

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"

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.

POST EMBEDMENT DEPTH

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

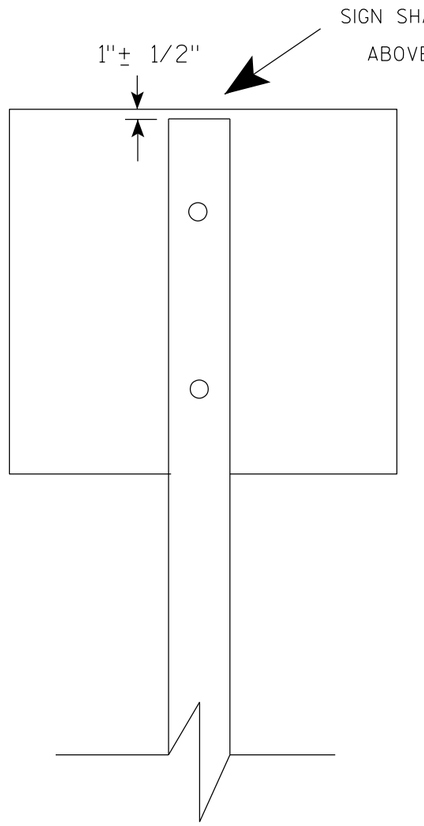
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

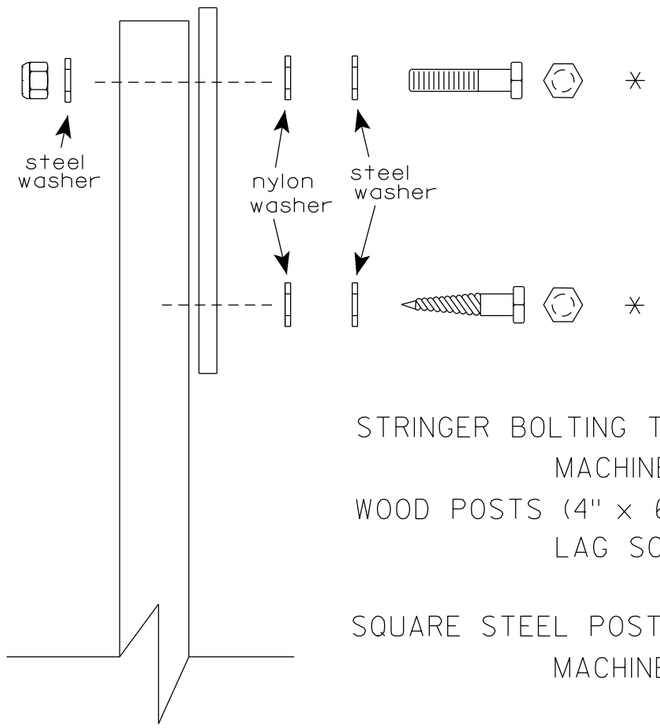
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 201	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

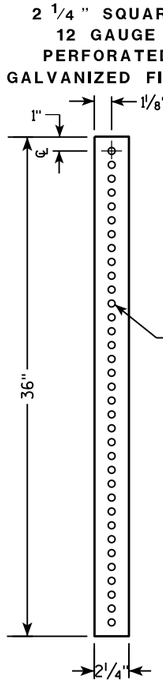
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

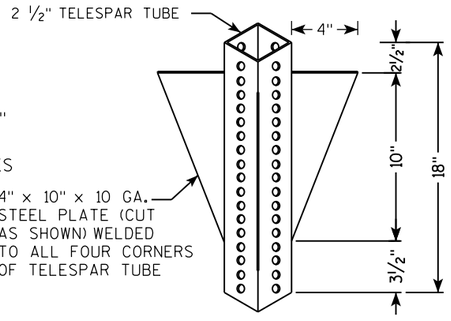
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

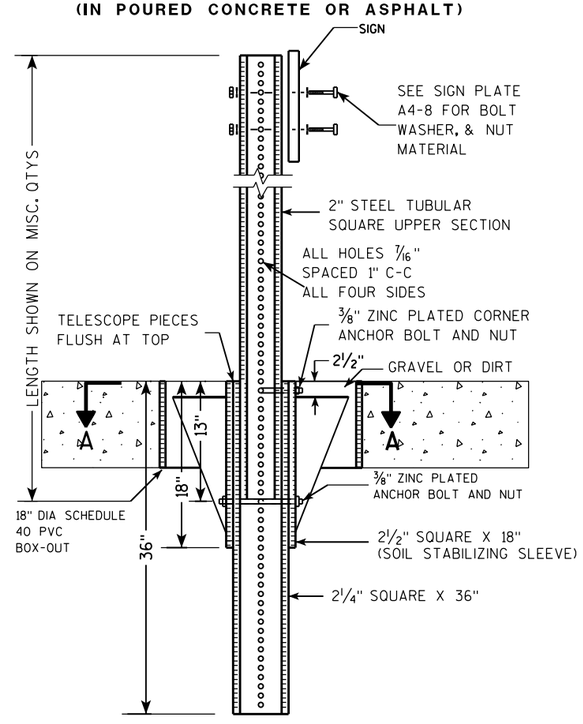
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



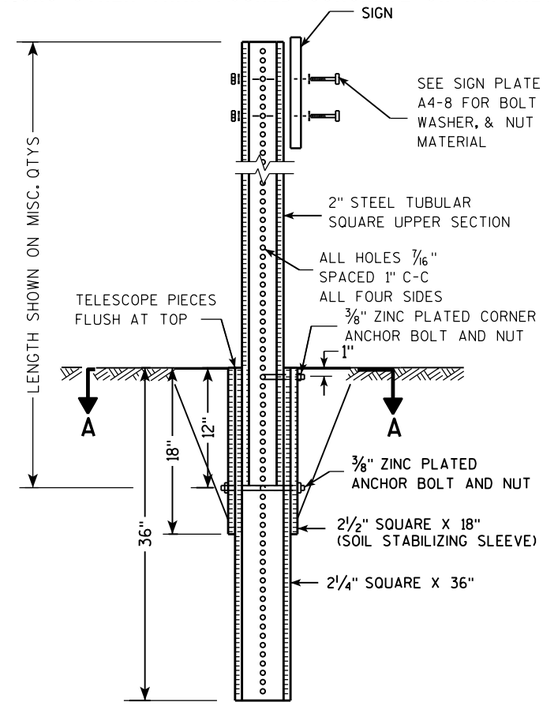
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

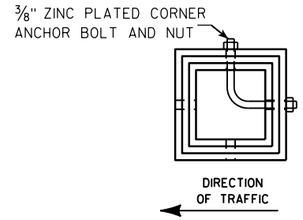


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

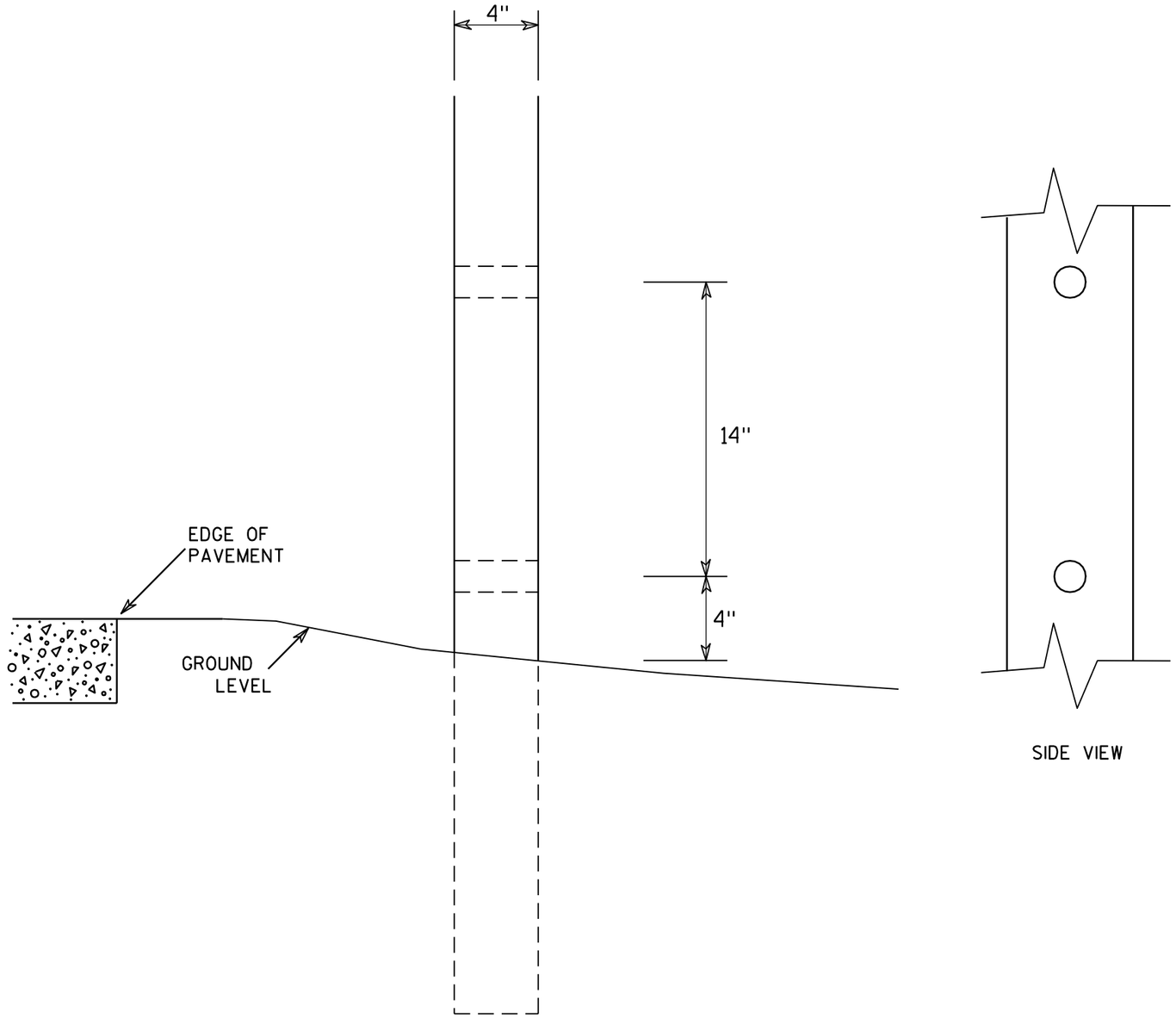
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 203 A4-9.9

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

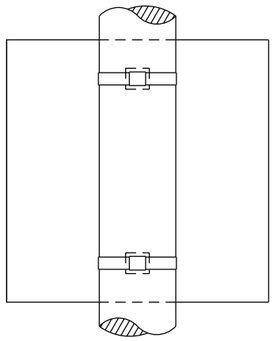
APPROVED Chester J Spang for State Traffic Engineer

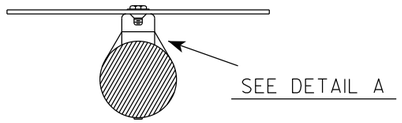
DATE 3/27/97 PLATE NO. A4-11.2

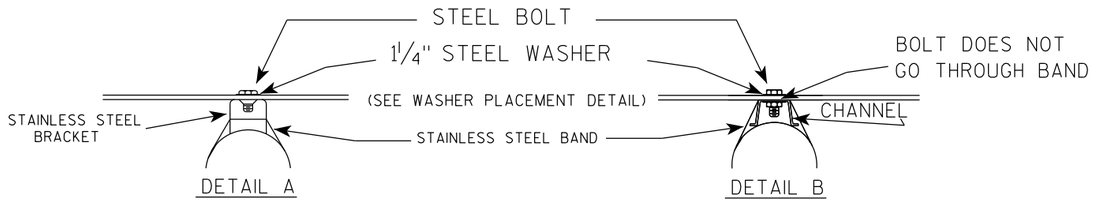
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 204	E

BANDING

SINGLE SIGN



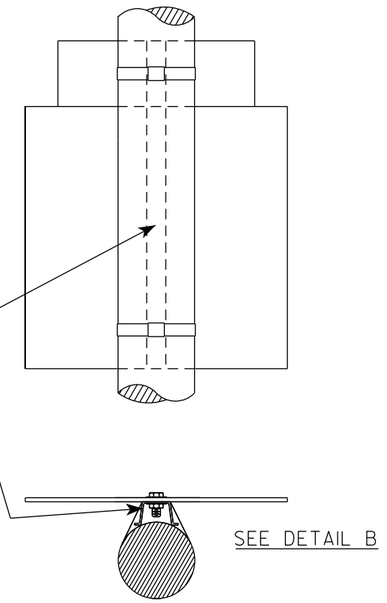




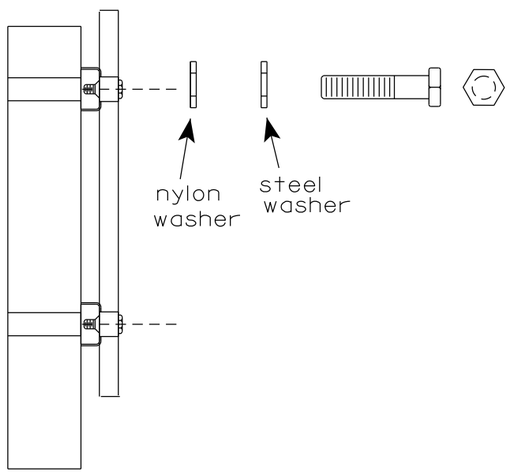
GENERAL NOTES

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 ¾" 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



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

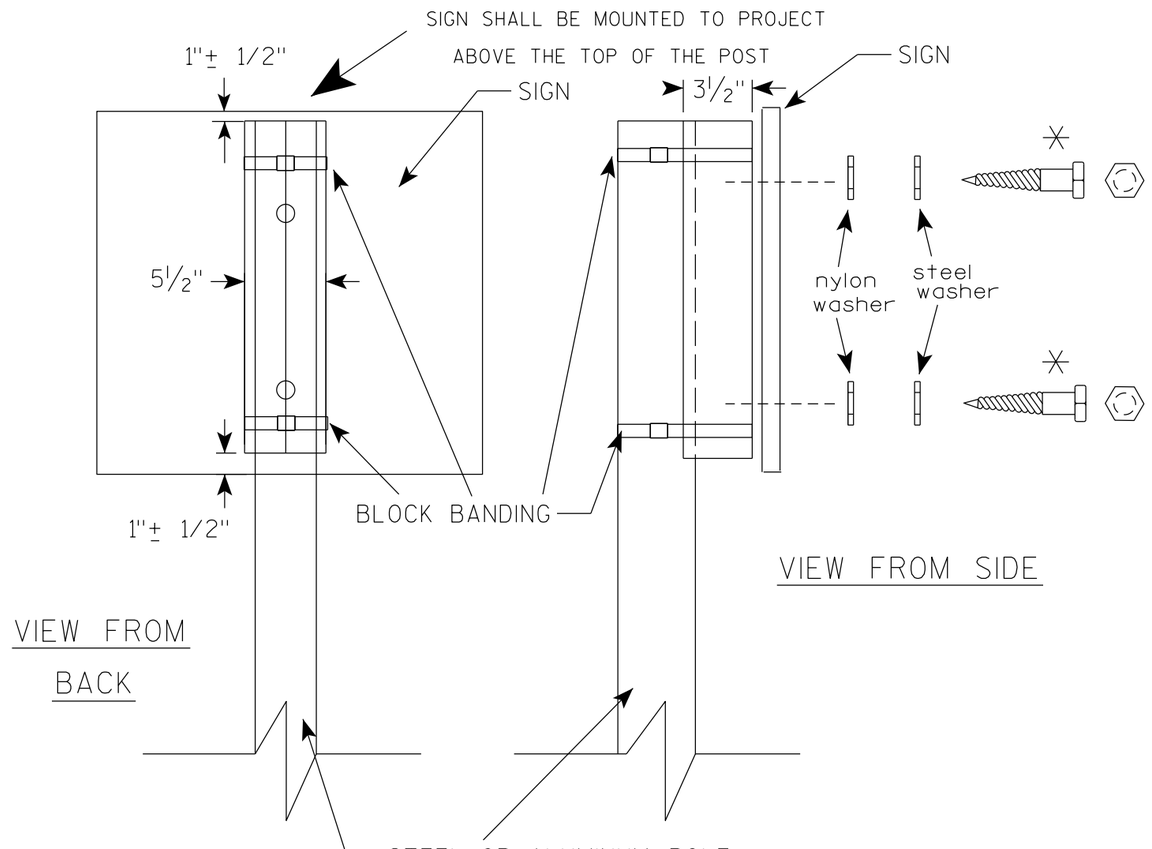
WISCONSIN DEPT OF TRANSPORTATION

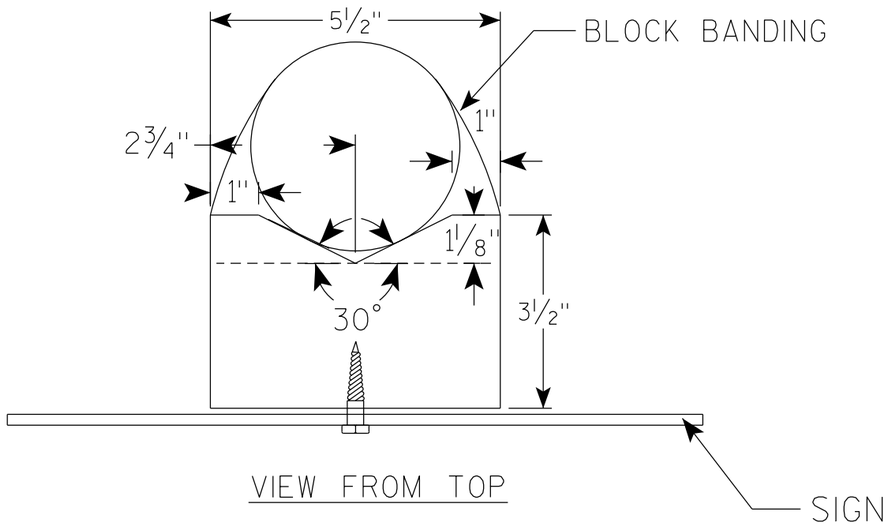
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-9.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 205	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$





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, ¾" 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 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

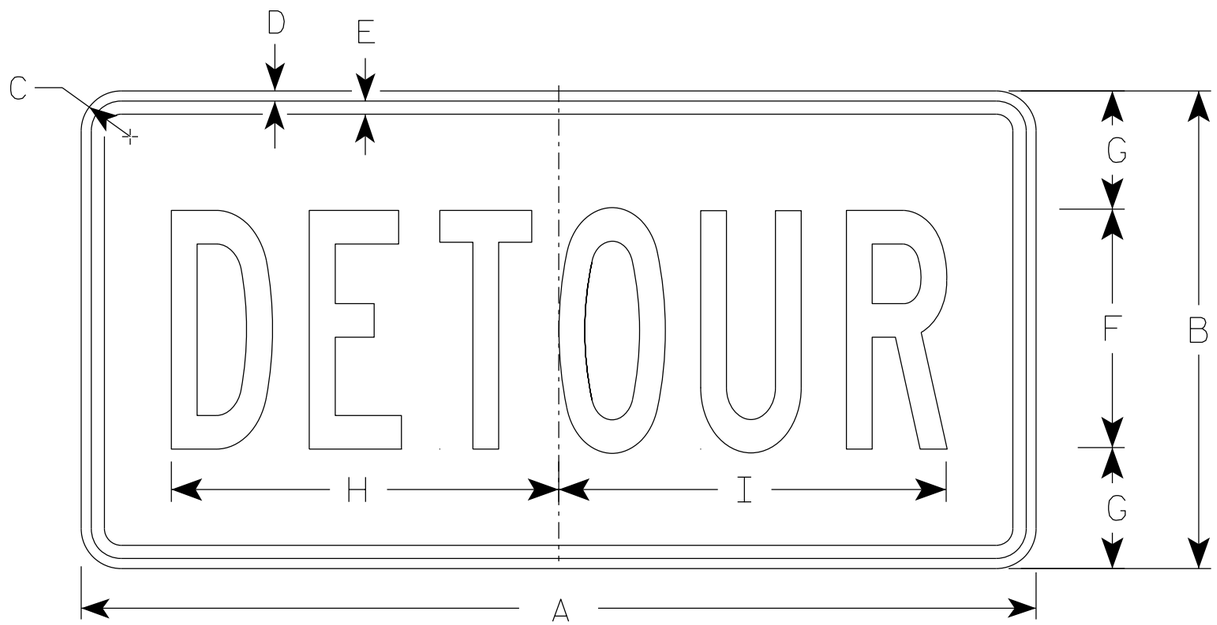
DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 206 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

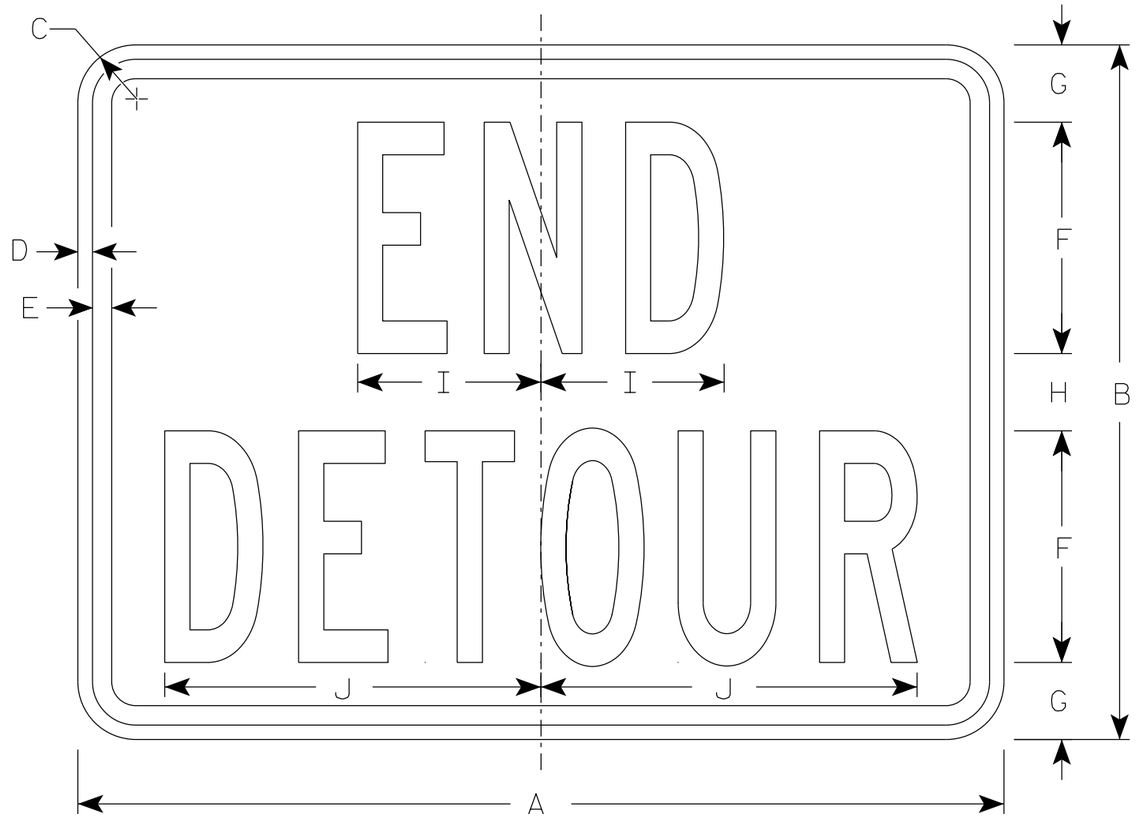
STANDARD SIGN
M4-8

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: 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 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
2M	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
3	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
4	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
5	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0

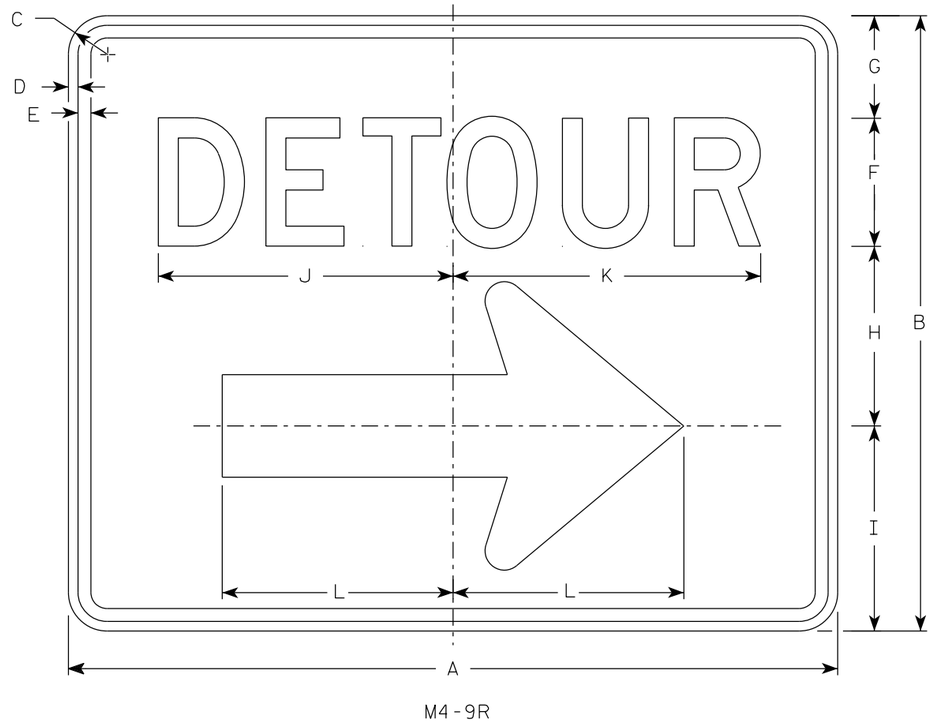
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

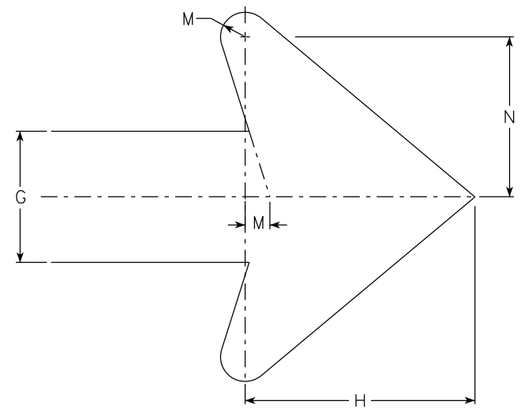
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 208 | E



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

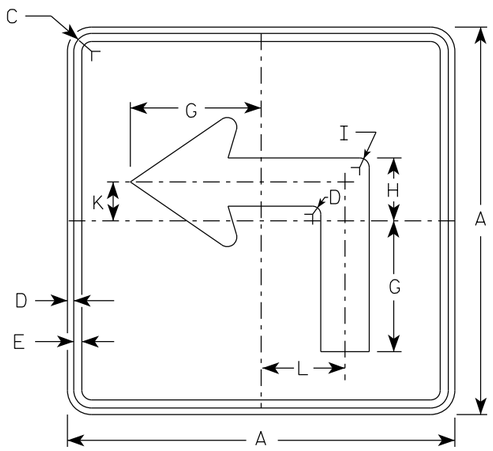
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

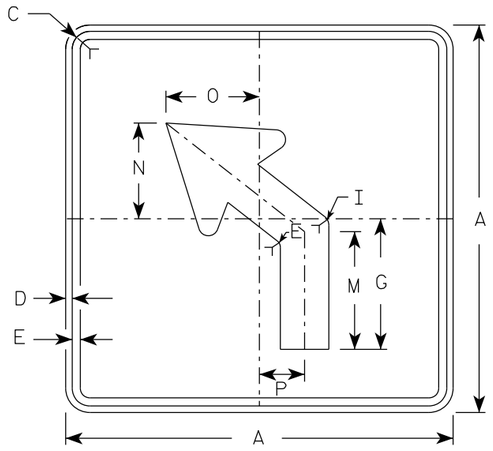
DATE 2/9/2023 PLATE NO. M4-9R.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

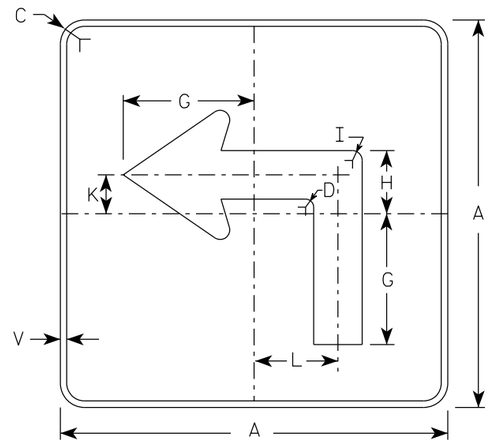
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M49R.dgn PLOT DATE : 21-MARCH 2023 1:40 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



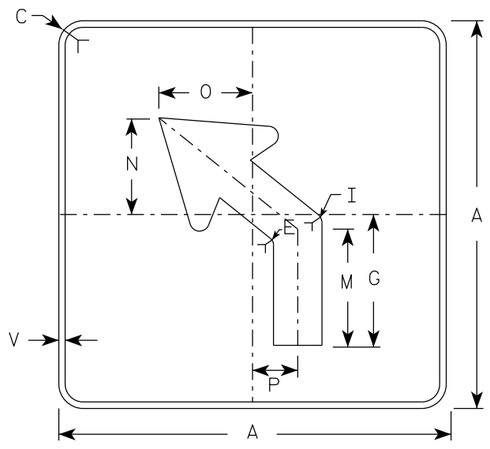
M5-1L
MM5-1L
MO5-1L
MP5-1L



M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L

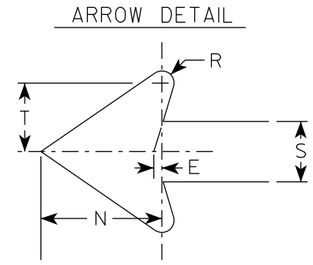


MB5-2L
MK5-2L
MN5-2L
MR5-2L

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

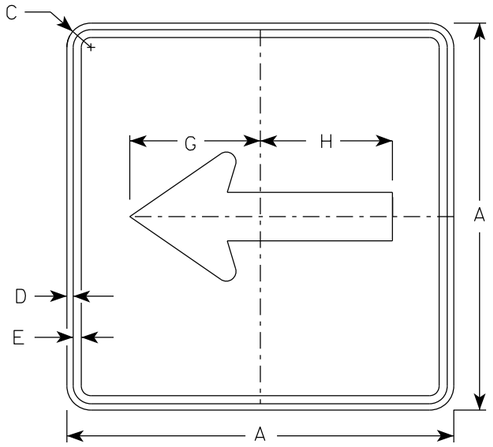
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

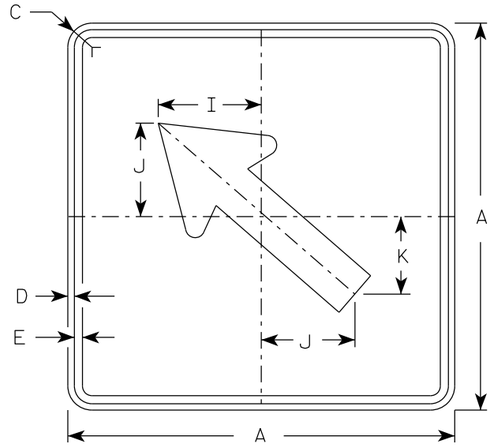
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

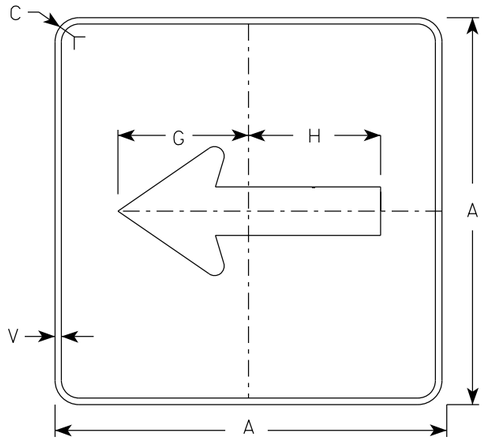
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 210 | E



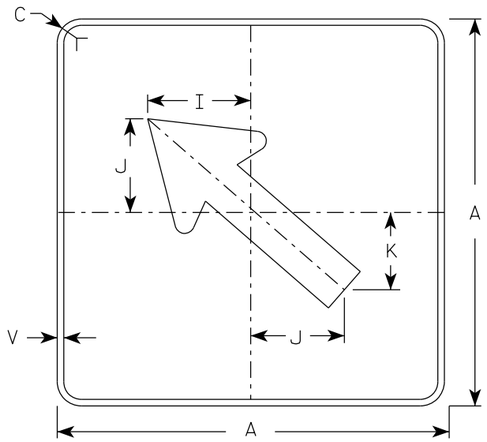
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

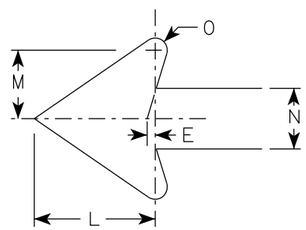


MB6-2
MK6-2
MN6-2
MR6-2

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

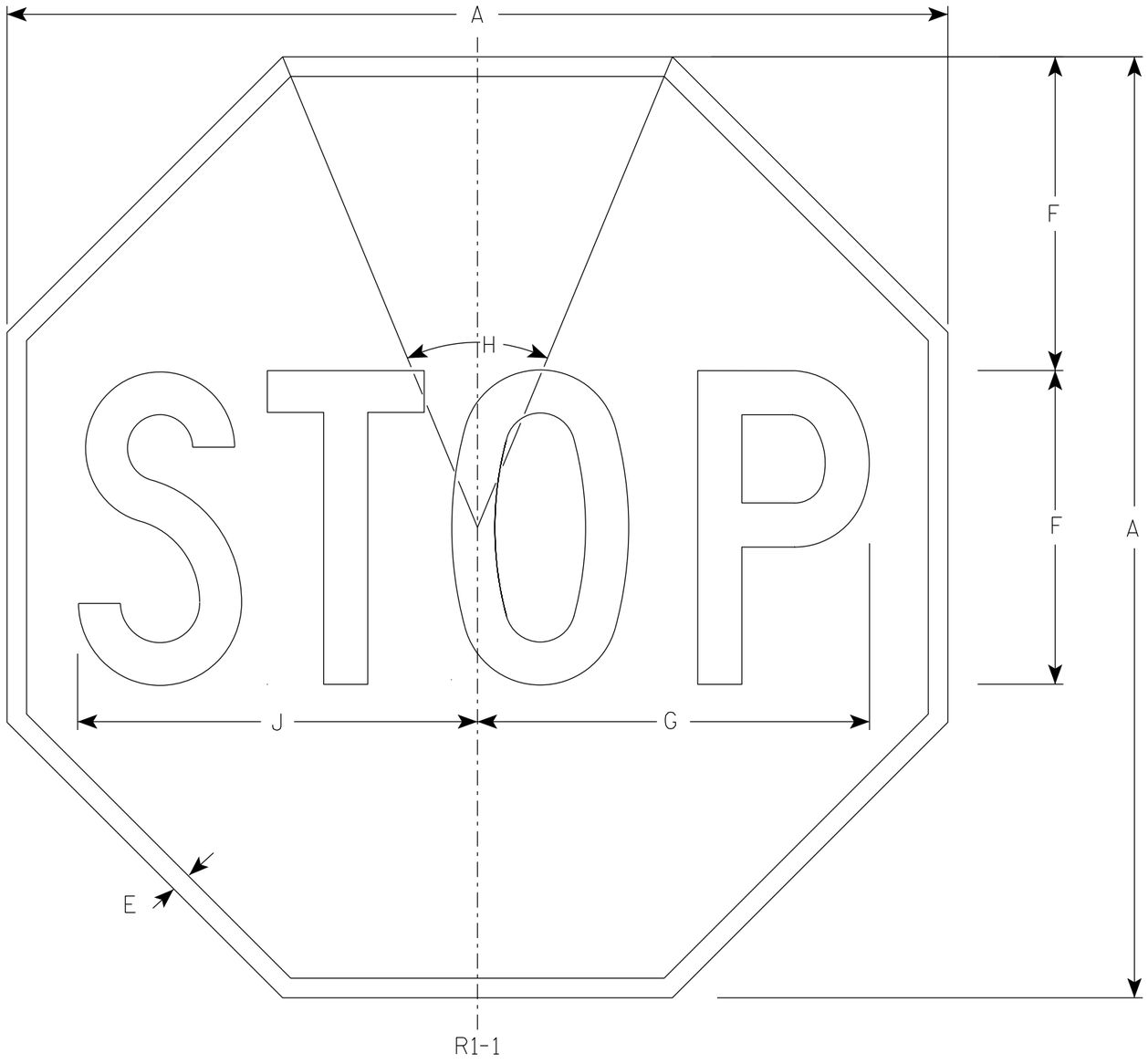
STANDARD SIGN
M6-1 & M6-2
SERIES

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: 211 | E



NOTES

1. Sign is Type II - Type H Reflective
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

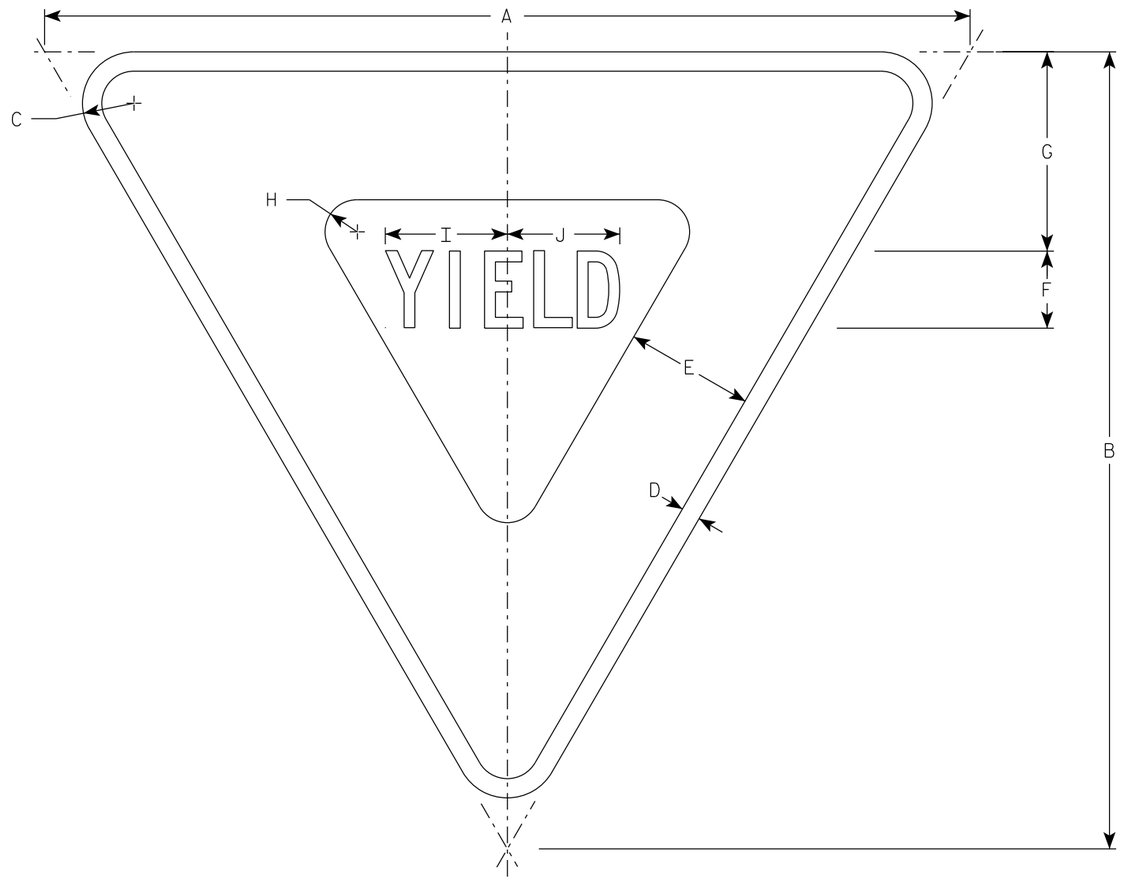
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/9/2025 PLATE NO. R1-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 212	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See note 4
3. Message Series - C
4. The border strip and word message are reflectorized red.

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	26	2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

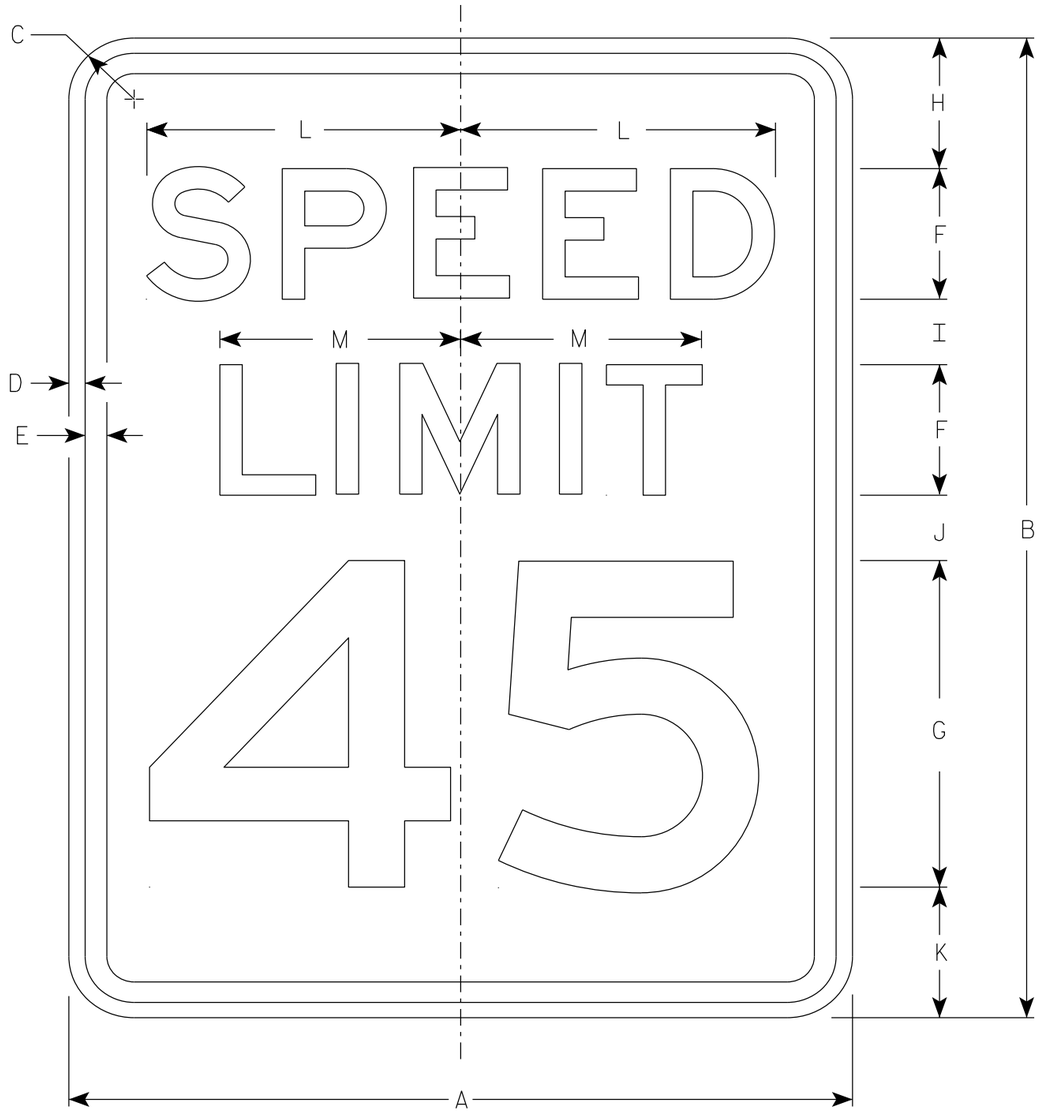
STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/10/2024 PLATE NO. R1-2.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 213	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

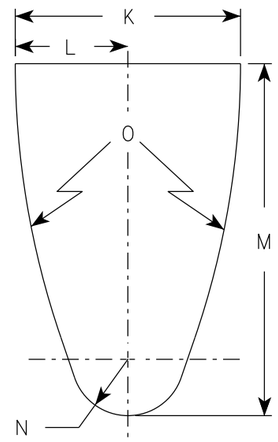
WISCONSIN DEPT OF TRANSPORTATION

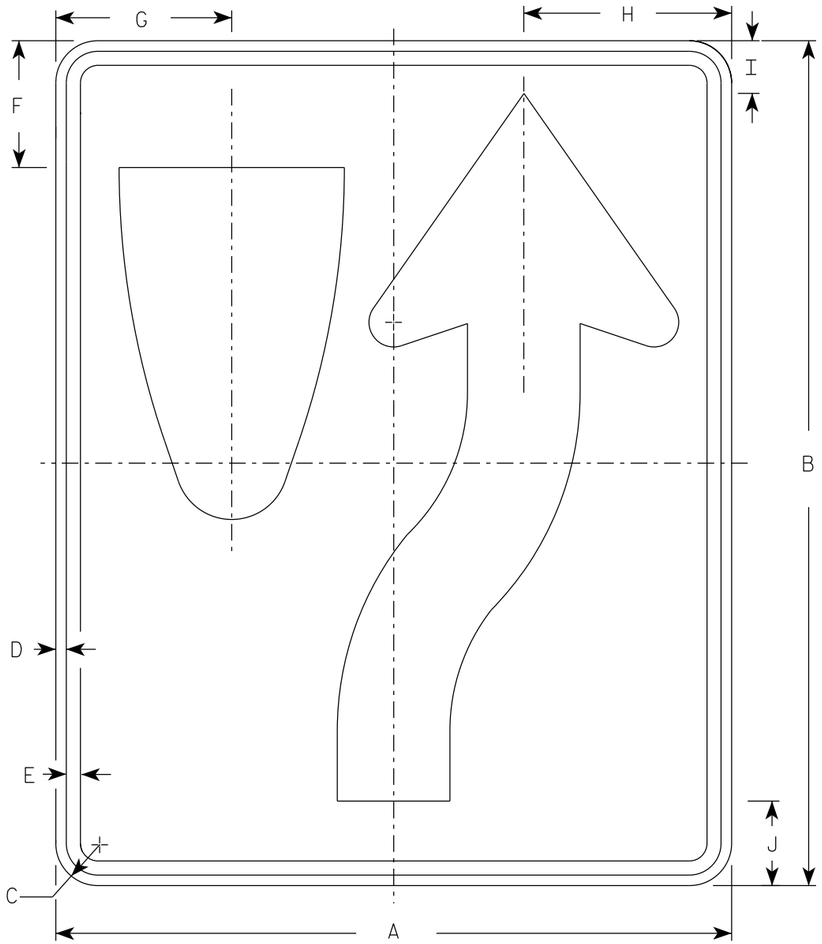
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/23 PLATE NO. R2-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 214 | E

DIVIDER DETAIL



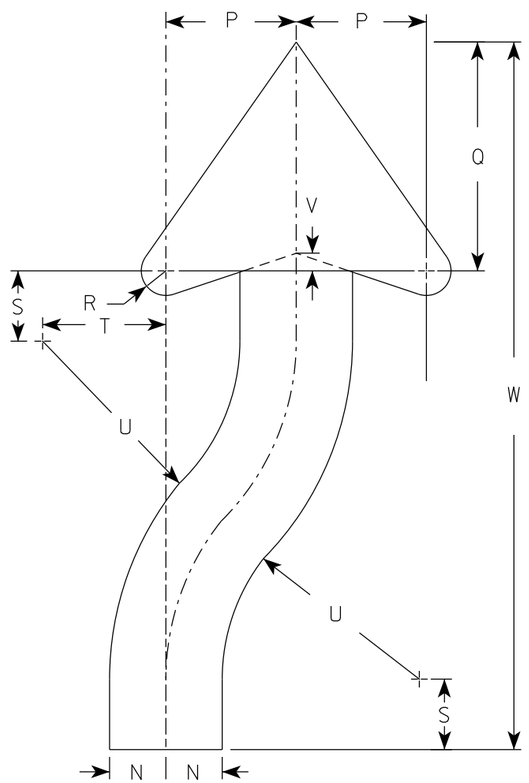


R4-7

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. R4-8 is the same as R4-7 except Legend 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	18	24	1 1/2	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/2	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/2	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 7/8	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 7/8	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	3	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

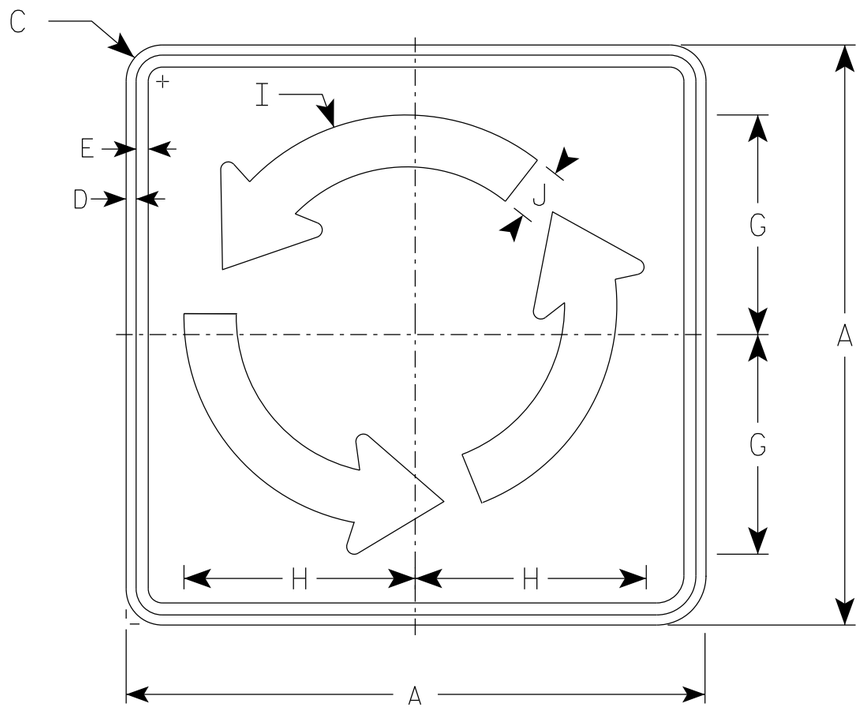
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/17/23 PLATE NO. R4-7.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 215	E

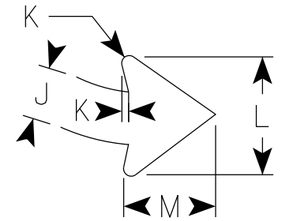
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black



R6-5P

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	Area sq. ft.
1																									
2S	30		1 7/8	1/2	5/8		11 3/8	12	11 1/8	2 3/4	3/8	6	4 3/4												6.25
2M	30		1 7/8	1/2	5/8		11 3/8	12	11 1/8	2 3/4	3/8	6	4 3/4												6.25
3																									
4																									
5																									

STANDARD SIGN
R6-5P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/26/23 PLATE NO. R6-5P.2

PROJECT NO:

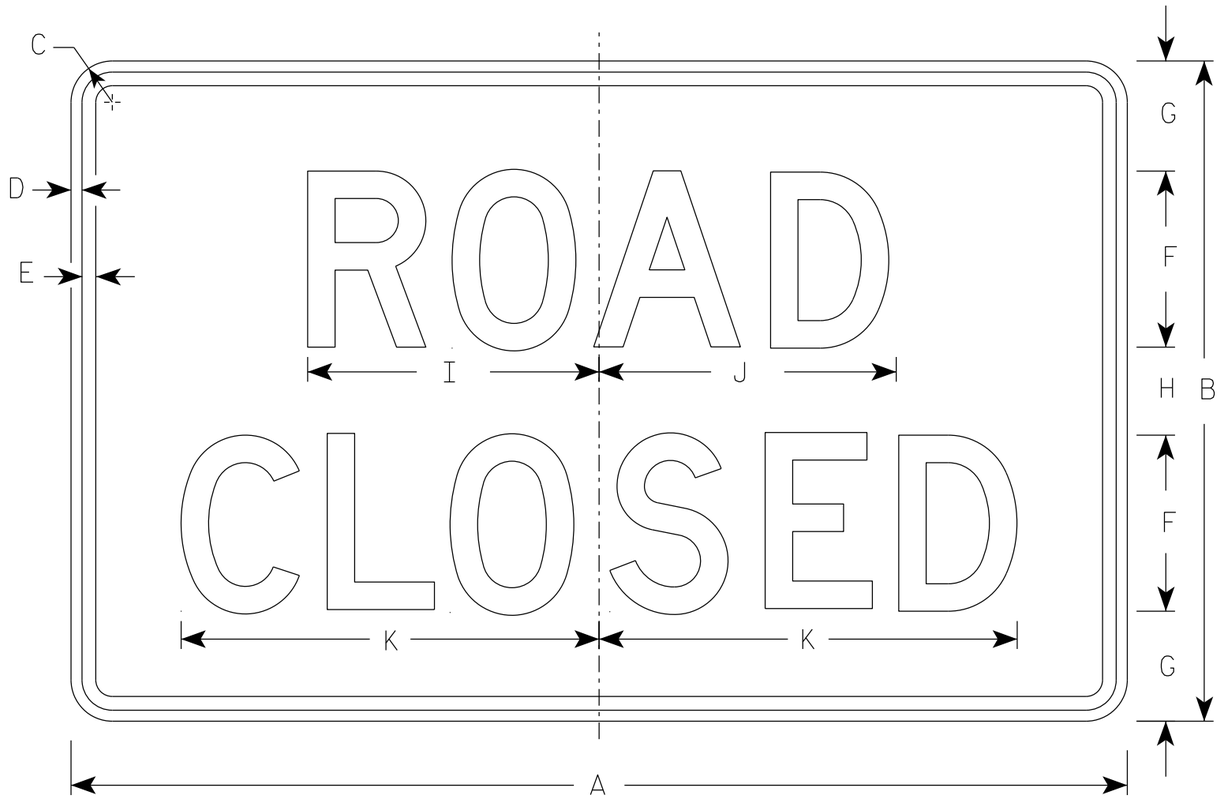
SHEET NO: 216 E

FILE NAME : C::CAEfiles\Project\tr_stdplate\R65P.dgn PLOT DATE : 26-OCT 2023 1:46 PLOT BY : mscj9h

WISDOT/CADDS SHEET 42

7

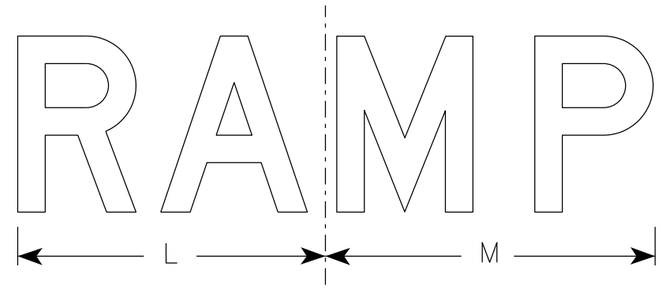
7



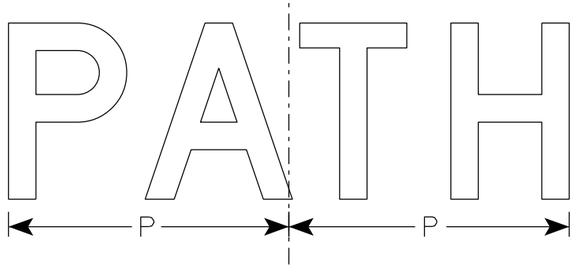
R11-2

NOTES

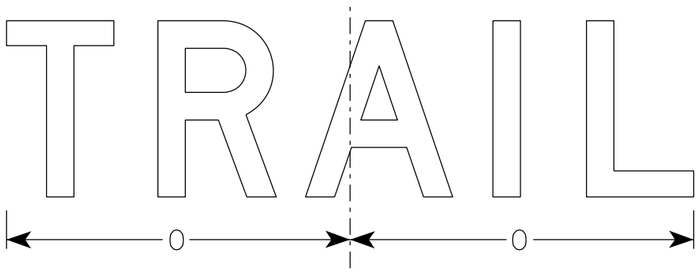
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the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



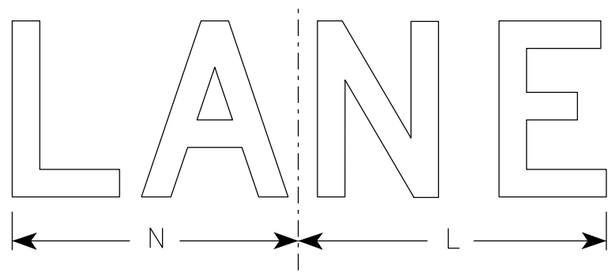
R11-2R



R11-2C



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8	12 3/4											10.0
2M	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8	12 3/4											10.0
3	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8	12 3/4											10.0
4	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8	12 3/4											10.0
5	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8	12 3/4											10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

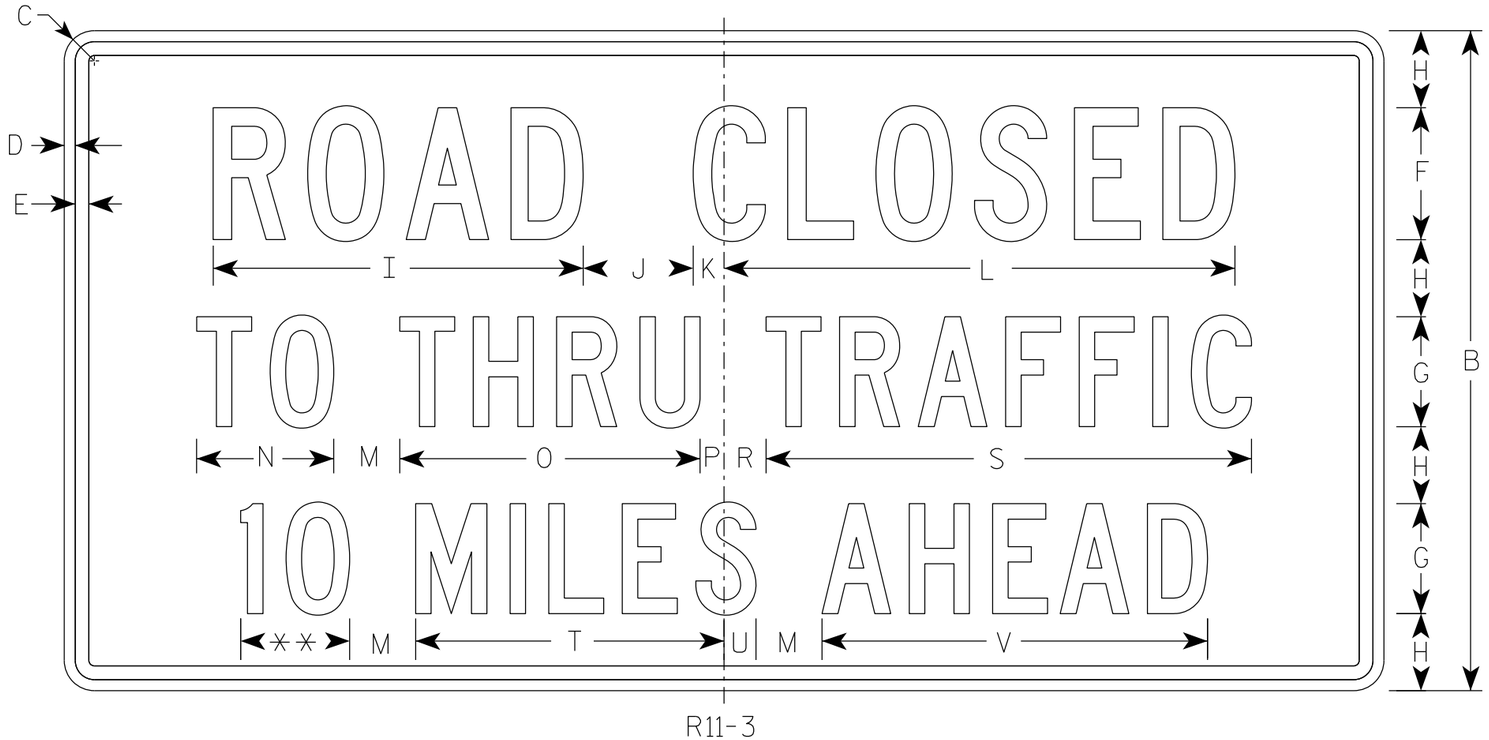
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/3/26 PLATE NO. R11-2.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

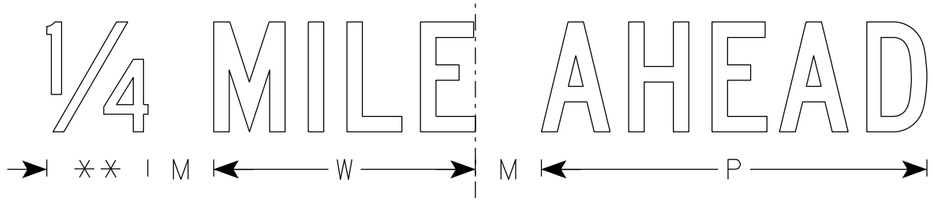
NOTES

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.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

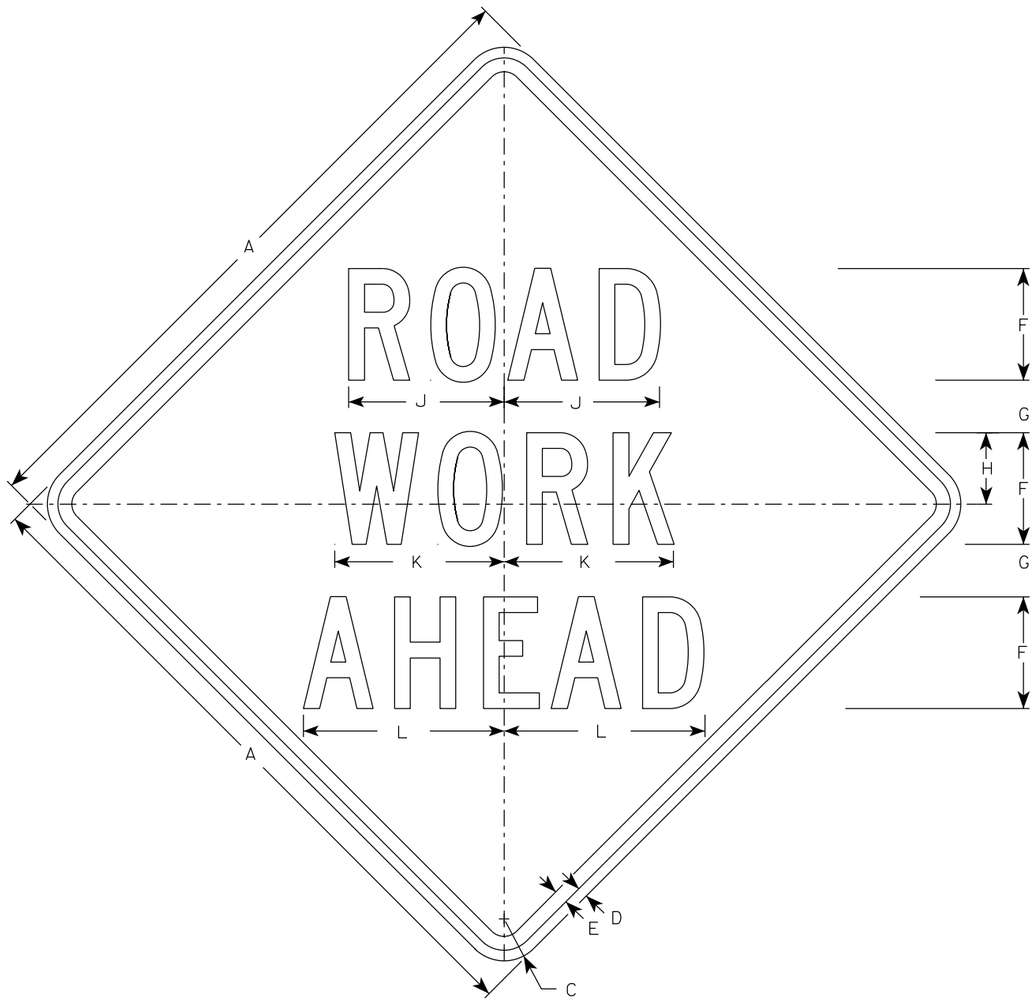
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

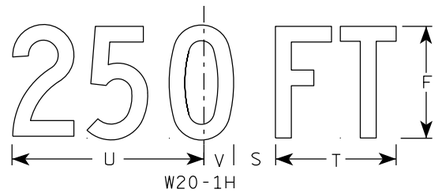
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-3.10

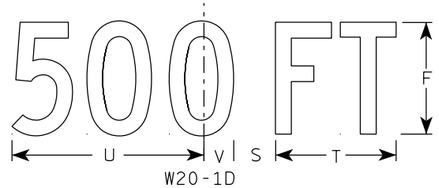
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 218 | E



W20-1A



W20-1H



W20-1D



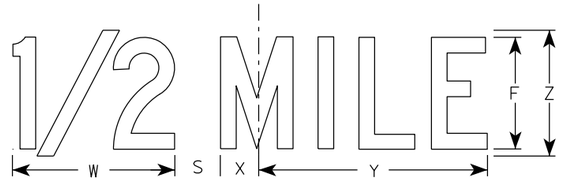
W20-1C



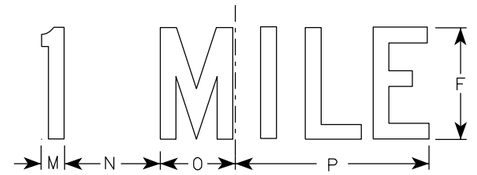
W20-1B

NOTES

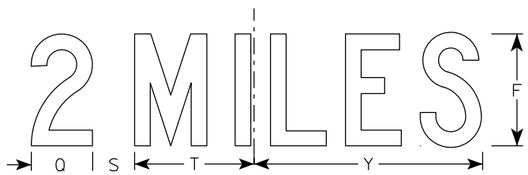
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



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

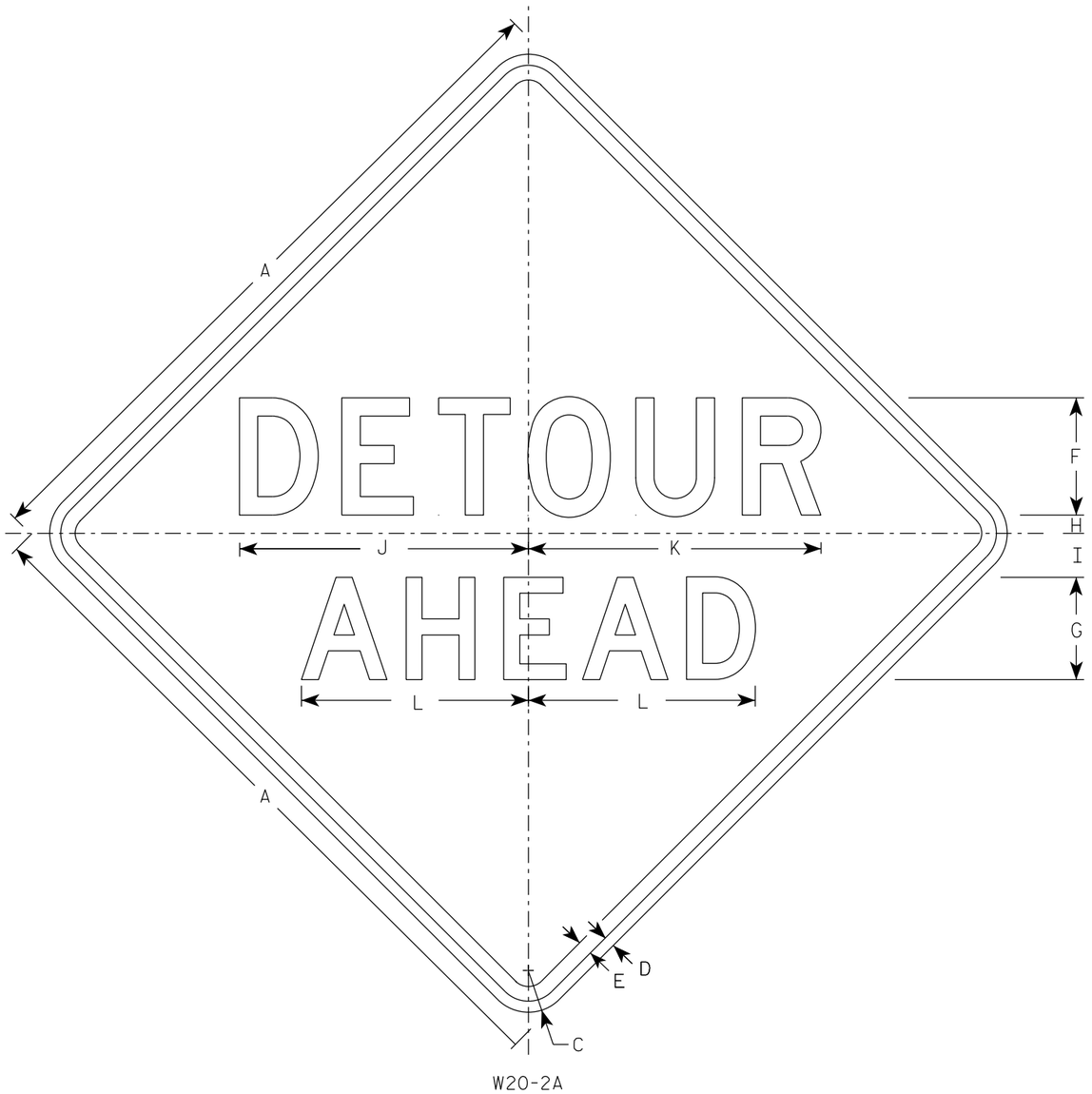
PROJECT NO:

SHEET NO: 219 E

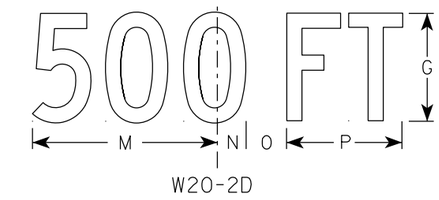
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 10-JAN 2024 11:16 PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

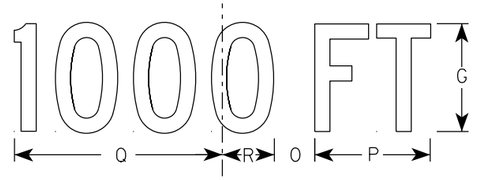
7



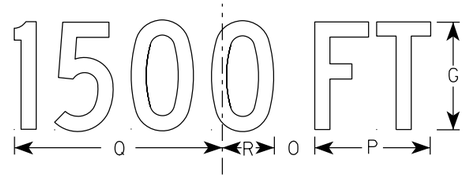
W20-2A



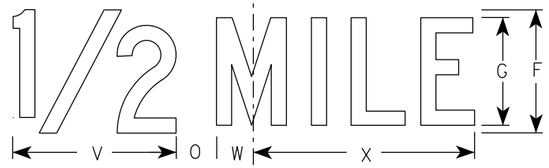
W20-2D



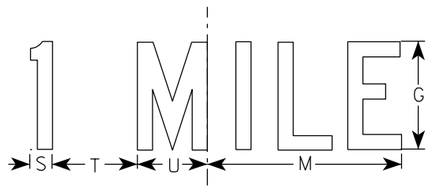
W20-2C



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

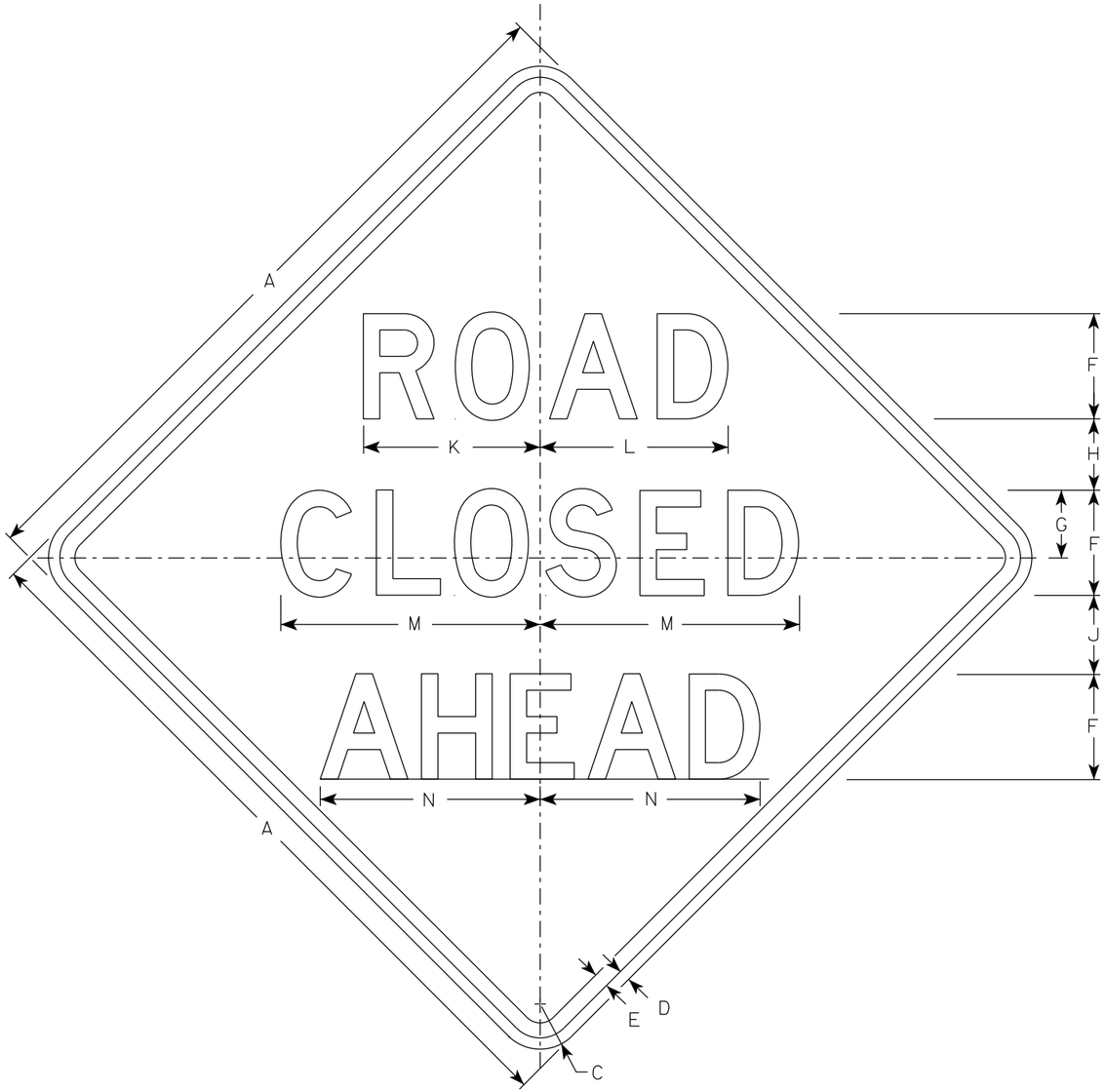
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

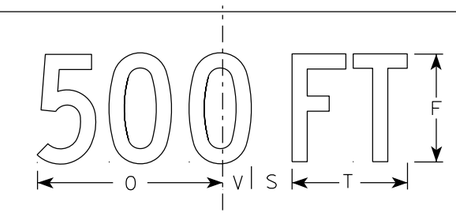
DATE 1/10/2024 PLATE NO. W20-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

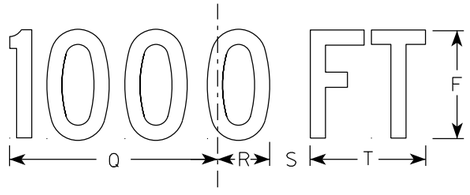
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W202.DGN PLOT DATE : 10-JAN 2024 11:36 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



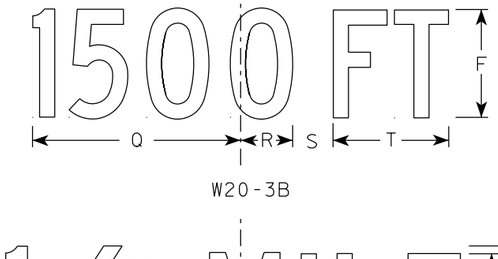
W20-3A



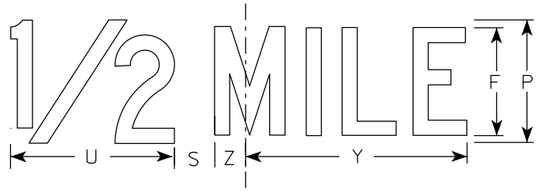
W20-3D



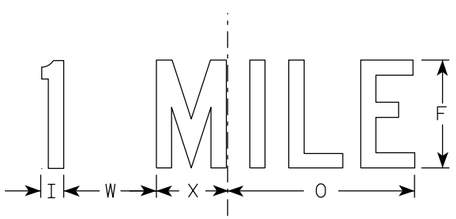
W20-3C



W20-3B



W20-3G



W20-3F

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. Lines 1 and 2 are Series D.
   Line 3 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	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-3.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W203.DGN PLOT DATE : 10-JAN 2024 12:02 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

93RD STREET DITCH LEFT

STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
48+75.00	4.86	0.00	0.00	0.00	0.00	0.00	0.00
49+00.00	14.17	0.00	9.00	0.00	9.00	0.00	9.00
49+25.00	15.67	0.00	14.00	0.00	23.00	0.00	23.00
49+50.00	62.32	0.43	36.00	0.00	59.00	0.00	59.00
49+75.00	65.44	0.49	59.00	0.00	118.00	0.00	118.00

93RD STREET MAINLINE

STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
49+87.00	98.16	1.86	0.00	0.00	0.00	0.00	0.00
50+00.00	101.97	2.80	48.00	1.00	48.00	1.30	46.70
50+25.00	105.88	2.35	96.00	2.00	144.00	3.90	140.10
50+50.00	105.96	5.71	98.00	4.00	242.00	9.10	232.90
50+75.00	105.54	13.27	98.00	9.00	340.00	20.80	319.20
51+00.00	107.32	16.03	99.00	14.00	439.00	39.00	400.00
51+25.00	111.27	15.68	101.00	15.00	540.00	58.50	481.50
51+50.00	110.51	16.28	103.00	15.00	643.00	78.00	565.00
51+75.00	97.46	12.54	96.00	13.00	739.00	94.90	644.10
52+00.00	218.43	0.90	146.00	6.00	885.00	102.70	782.30
52+07.00	219.56	0.61	57.00	0.00	942.00	102.70	839.30
52+25.00	215.87	9.82	145.00	3.00	1087.00	106.60	980.40
52+50.00	220.07	13.62	202.00	11.00	1289.00	120.90	1168.10
52+75.00	224.28	13.42	206.00	13.00	1495.00	137.80	1357.20
53+00.00	223.12	13.63	207.00	13.00	1702.00	154.70	1547.30
53+25.00	215.60	14.16	203.00	13.00	1905.00	171.60	1733.40
53+50.00	208.69	16.63	196.00	14.00	2101.00	189.80	1911.20
53+75.00	201.26	19.36	190.00	17.00	2291.00	211.90	2079.10
54+00.00	202.13	21.55	187.00	19.00	2478.00	236.60	2241.40
54+25.00	176.31	15.63	175.00	17.00	2653.00	258.70	2394.30
54+40.00	191.03	14.29	102.00	8.00	2755.00	269.10	2485.90
54+50.00	177.46	14.36	68.00	5.00	2823.00	275.60	2547.40
54+75.00	193.21	15.54	172.00	14.00	2995.00	293.80	2701.20
55+00.00	182.57	12.69	174.00	13.00	3169.00	310.70	2858.30
55+25.00	171.75	12.36	164.00	12.00	3333.00	326.30	3006.70
55+50.00	160.66	13.06	154.00	12.00	3487.00	341.90	3145.10
55+75.00	159.55	15.10	148.00	13.00	3635.00	358.80	3276.20
55+95.00	185.33	16.62	128.00	12.00	3763.00	374.40	3388.60
56+00.00	183.81	17.34	34.00	3.00	3797.00	378.30	3418.70
56+25.00	151.86	21.69	155.00	18.00	3952.00	401.70	3550.30
56+50.00	146.14	24.94	138.00	22.00	4090.00	430.30	3659.70
56+75.00	144.40	25.85	135.00	24.00	4225.00	461.50	3763.50
57+00.00	159.37	22.90	141.00	23.00	4366.00	491.40	3874.60
57+15.00	105.02	16.28	73.00	11.00	4439.00	505.70	3933.30
57+25.00	88.41	15.89	36.00	6.00	4475.00	513.50	3961.50
57+50.00	76.90	15.03	77.00	14.00	4552.00	531.70	4020.30
57+75.00	86.70	13.69	76.00	13.00	4628.00	548.60	4079.40
58+00.00	99.20	14.35	86.00	13.00	4714.00	565.50	4148.50
58+25.00	63.23	3.98	75.00	8.00	4789.00	575.90	4213.10
58+45.00	61.90	5.30	46.00	3.00	4835.00	579.80	4255.20

93RD STREET MAINLINE

STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
58+80.00	75.27	28.53	89.00	22.00	4924.00	608.40	4315.60
59+00.00	68.89	22.99	53.00	19.00	4977.00	633.10	4343.90
59+25.00	65.19	22.00	62.00	21.00	5039.00	660.40	4378.60
59+50.00	64.95	18.64	60.00	19.00	5099.00	685.10	4413.90
59+75.00	70.46	12.48	63.00	14.00	5162.00	703.30	4458.70
60+00.00	101.70	6.90	80.00	9.00	5242.00	715.00	4527.00
60+25.00	75.66	8.36	82.00	7.00	5324.00	724.10	4599.90
60+50.00	79.84	6.12	72.00	7.00	5396.00	733.20	4662.80
60+75.00	90.54	3.66	79.00	5.00	5475.00	739.70	4735.30
61+00.00	106.65	0.90	91.00	2.00	5566.00	742.30	4823.70
61+25.00	115.18	0.85	103.00	1.00	5669.00	743.60	4925.40
61+50.00	118.32	1.05	108.00	1.00	5777.00	744.90	5032.10
61+75.00	125.11	1.68	113.00	1.00	5890.00	746.20	5143.80
62+00.00	115.42	1.86	111.00	2.00	6001.00	748.80	5252.20
62+14.00	135.24	0.33	65.00	1.00	6066.00	750.10	5315.90
62+25.00	106.51	3.77	49.00	1.00	6115.00	751.40	5363.60
62+50.00	102.12	3.96	97.00	4.00	6212.00	756.60	5455.40
62+75.00	103.84	2.37	95.00	3.00	6307.00	760.50	5546.50
63+00.00	109.80	0.47	99.00	1.00	6406.00	761.80	5644.20
63+11.00	136.91	0.00	50.00	0.00	6456.00	761.80	5694.20
63+25.00	109.86	0.21	64.00	0.00	6520.00	761.80	5758.20
63+50.00	98.86	8.86	97.00	4.00	6617.00	767.00	5850.00
63+75.00	99.01	23.23	92.00	15.00	6709.00	786.50	5922.50
64+00.00	97.46	26.63	91.00	23.00	6800.00	816.40	5983.60
64+25.00	93.47	36.50	88.00	29.00	6888.00	854.10	6033.90
64+50.00	88.45	41.23	84.00	36.00	6972.00	900.90	6071.10
64+75.00	83.67	30.32	80.00	33.00	7052.00	943.80	6108.20
65+00.00	77.47	52.80	75.00	38.00	7127.00	993.20	6133.80
65+25.00	79.99	43.08	73.00	44.00	7200.00	1050.40	6149.60
65+50.00	82.28	28.66	75.00	33.00	7275.00	1093.30	6181.70
65+75.00	84.76	22.09	77.00	23.00	7352.00	1123.20	6228.80
66+00.00	99.71	18.34	85.00	19.00	7437.00	1147.90	6289.10
66+25.00	132.39	2.44	107.00	10.00	7544.00	1160.90	6383.10
66+35.00	133.75	2.33	49.00	1.00	7593.00	1162.20	6430.80
66+50.00	100.11	18.74	65.00	6.00	7658.00	1170.00	6488.00
66+75.00	94.04	19.02	90.00	17.00	7748.00	1192.10	6555.90
67+16.00	121.64	8.74	164.00	21.00	7912.00	1219.40	6692.60
67+29.00	102.54	12.81	54.00	5.00	7966.00	1225.90	6740.10
67+42.00	112.00	16.95	52.00	7.00	8018.00	1235.00	6783.00
67+75.00	64.89	27.51	108.00	27.00	8126.00	1270.10	6855.90
68+00.00	66.94	25.58	61.00	25.00	8187.00	1302.60	6884.40
68+25.00	68.53	22.38	63.00	22.00	8250.00	1331.20	6918.80
68+50.00	65.62	21.41	62.00	20.00	8312.00	1357.20	6954.80
68+75.00	57.34	27.21	57.00	23.00	8369.00	1387.10	6981.90
69+00.00	57.02	24.66	53.00	24.00	8422.00	1418.30	7003.70
69+25.00	61.58	15.78	55.00	19.00	8477.00	1443.00	7034.00
69+50.00	70.14	8.11	61.00	11.00	8538.00	1457.30	7080.70
69+75.00	82.02	1.69	70.00	5.00	8608.00	1463.80	7144.20
69+91.50	107.83	0.01	58.00	1.00	8666.00	1465.10	7200.90
70+00.00	86.03	0.05	31.00	0.00	8697.00	1465.10	7231.90
70+25.00	83.17	7.38	78.00	3.00	8775.00	1469.00	7306.00
70+50.00	80.65	16.66	76.00	11.00	8851.00	1483.30	7367.70
70+75.00	81.20	27.97	75.00	21.00	8926.00	1510.60	7415.40

93RD STREET MAINLINE

STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
71+00.00	80.33	35.19	75.00	29.00	9001.00	1548.30	7452.70
71+25.00	80.32	42.16	74.00	36.00	9075.00	1595.10	7479.90
71+44.00	102.87	24.74	64.00	24.00	9139.00	1626.30	7512.70
71+50.00	99.93	26.34	23.00	6.00	9162.00	1634.10	7527.90
71+75.00	73.13	45.43	80.00	33.00	9242.00	1677.00	7565.00
72+00.00	70.09	30.91	66.00	35.00	9308.00	1722.50	7585.50
72+25.00	69.14	9.58	64.00	19.00	9372.00	1747.20	7624.80
72+50.00	74.37	5.40	66.00	7.00	9438.00	1756.30	7681.70
72+75.00	107.81	4.47	84.00	5.00	9522.00	1762.80	7759.20
73+00.00	91.13	8.24	92.00	6.00	9614.00	1770.60	7843.40
73+25.00	102.59	7.62	90.00	7.00	9704.00	1779.70	7924.30
73+50.00	109.91	5.21	98.00	6.00	9802.00	1787.50	8014.50
73+75.00	109.62	2.86	102.00	4.00	9904.00	1792.70	8111.30
74+00.00	101.67	3.58	98.00	3.00	10002.00	1796.60	8205.40
74+25.00	94.88	4.23	91.00	4.00	10093.00	1801.80	8291.20
74+44.00	108.99	0.13	72.00	2.00	10165.00	1804.40	8360.60
74+50.00	106.40	0.16	24.00	0.00	10189.00	1804.40	8384.60
74+75.00	56.85	6.99	76.00	3.00	10265.00	1808.30	8456.70
75+00.00	39.38	16.46	45.00	11.00	10310.00	1822.60	8487.40
75+25.00	27.30	29.70	31.00	21.00	10341.00	1849.90	8491.10
75+50.00	23.10	40.40	23.00	32.00	10364.00	1891.50	8472.50
75+75.00	21.86	50.68	21.00	42.00	10385.00	1946.10	8438.90
76+00.00	24.54	46.63	21.00	45.00	10406.00	2004.60	8401.40
76+12.00	40.52	22.27	14.00	15.00	10420.00	2024.10	8395.90
76+25.00	33.05	30.03	18.00	13.00	10438.00	2041.00	8397.00
76+50.00	38.00	33.65	33.00	29.00	10471.00	2078.70	8392.30
76+75.00	46.82	31.24	39.00	30.00	10510.00	2117.70	8392.30
77+00.00	54.07	23.02	47.00	25.00	10557.00	2150.20	8406.80
77+25.00	53.30	42.70	50.00	30.00	10607.00	2189.20	8417.80
77+50.00	78.72	32.42	61.00	35.00	10668.00	2234.70	8433.30
77+77.50	61.05	131.71	71.00	84.00	10739.00	2343.90	8395.10
77+87.50	64.12	72.47	23.00	38.00	10762.00	2393.30	8368.70
78+00.00	69.15	47.86	31.00	28.00	10793.00	2429.70	8363.30
78+25.00	81.28	17.34	70.00	30.00	10863.00	2468.70	8394.30
78+50.00	96.15	11.09	82.00	13.00	10945.00	2485.60	8459.40
78+75.00	109.48	6.96	95.00	8.00	11040.00	2496.00	8544.00
79+00.00	118.00	6.35	105.00	6.00	11145.00	2503.80	8641.20
79+25.00	130.42	0.08	115.00	3.00	11260.00	2507.70	8752.30
79+50.00	124.76	2.30	118.00	1.00	11378.00	2509.00	8869.00
79+75.00	125.75	4.58	116.00	3.00	11494.00	2512.90	8981.10
80+00.00	136.73	0.00	122.00	2.00	11616.00	2515.50	9100.50
80+25.00	90.88	14.11	105.00	7.00	11721.00	2524.60	9196.40
80+50.00	77.40	16.39	78.00	14.00	11799.00	2542.80	9256.20
80+75.00	66.97	17.15	67.00	16.00	11866.00	2563.60	9302.40
81+00.00	66.36	16.34	62.00	16.00	11928.00	2584.40	9343.60
81+25.00	101.35	6.97	78.00	11.00	12006.00	2598.70	9407.30
81+50.00	77.56	7.18	83.00	7.00	12089.00	2607.80	9481.20
81+75.00	84.97	4.26	75.00	5.00	12164.00	2614.30	9549.70
82+00.00	169.13	1.11	118.00	2.00	12282.00	2616.90	9665.10
82+25.00	183.77	0.34	163.00	1.00	12445.00	2618.20	9826.80
82+50.00	185.14	0.75	171.00	1.00	12616.00	2619.50	9996.50
82+75.00	183.74	1.91	171.00	1.00	12787.00	2620.80	10166.20
83+00.00	206.44	0.00	181.00	1.00	12968.00	2622.10	10345.90

93RD RAB CIRCLE

STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
10+21.00	102.39	33.32	0.00	0.00	0.00	0.00	0.00
10+42.00	98.08	28.57	78.00	24.00	78.00	31.20	46.80
10+65.00	130.88	24.82	98.00	23.00	176.00	61.10	114.90
10+89.00	118.30	24.28	111.00	22.00	287.00	89.70	197.30
11+13.00	140.24	26.43	115.00	23.00	402.00	119.60	282.40
11+35.00	127.22	30.81	109.00	23.00	511.00	149.50	361.50
11+58.00	98.51	35.64	96.00	28.00	607.00	185.90	421.10
11+81.00	95.61	35.66	83.00	30.00	690.00	224.90	465.10

93RD EB RAB WEST LEG

STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
83+25.00	77.20	0.00	0.00	0.00	0.00	0.00	0.00
83+50.00	88.02	0.00	76.00	0.00	76.00	0.00	76.00
83+75.00	94.08	0.00	84.00	0.00	160.00	0.00	160.00
84+00.00	79.70	0.00	80.00	0.00	240.00	0.00	240.00
84+25.00	70.43	0.03	70.00	0.00	310.00	0.00	310.00
84+50.00	79.74	1.99	70.00	1.00	380.00	1.30	378.70

93RD WB RAB WEST LEG

STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
83+25.00	109.23	2.01	0.00	0.00	0.00	0.00	0.00
83+50.00	120.39	1.57	106.00	2.00	106.00	2.60	103.40
83+75.00	133.29	0.03	117.00	1.00	223.00	3.90	219.10
84+00.00	135.39	0.00	124.00	0.00	347.00	3.90	343.10
84+25.00	139.35	0.00	127.00	0.00	474.00	3.90	470.10
84+50.00	158.81	0.00	138.00	0.00	612.00	3.90	608.10

93RD WB RAB EAST LEG

STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
90+25.00	117.13	3.11	0.00	0.00	0.00	0.00	0.00
90+50.00	109.86	1.76	105.00	2.00	105.00	2.60	102.40
90+75.00	101.01	2.29	98.00	2.00	203.00	5.20	197.80
91+00.00	98.18	3.71	92.00	3.00	295.00	9.10	285.90
91+28.00	99.72	0.00	103.00	2.00	398.00	11.70	386.30
91+50.00	60.29	0.30	65.00	0.00	463.00	11.70	451.30

93RD EB RAB EAST LEG

STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
90+25.00	95.88	0.00	0.00	0.00	0.00	0.00	0.00
90+50.00	84.96	0.00	84.00	0.00	84.00	0.00	84.00
90+75.00	89.74	0.00	81.00	0.00	165.00	0.00	165.00
91+00.00	81.27	0.00	79.00	0.00	244.00	0.00	244.00
91+25.00	69.67	0.00	70.00	0.00	314.00	0.00	314.00
91+50.00	62.89	0.00	61.00	0.00	375.00	0.00	375.00
91+75.00	56.87	1.86	55.00	1.00	430.00	1.30	428.70
92+00.00	47.18	2.54	48.00	2.00	478.00	3.90	474.10
92+25.00	60.76	1.46	50.00	2.00	528.00	6.50	521.50
92+50.00	66.90	0.57	59.00	1.00	587.00	7.80	579.20
92+75.00	51.21	0.22	55.00	0.00	642.00	7.80	634.20
93+00.00	46.12	0.50	45.00	0.00	687.00	7.80	679.20
93+25.00	45.23	1.25	42.00	1.00	729.00	9.10	719.90
93+50.00	0.01	15.92	21.00	8.00	750.00	19.50	730.50
93+71.50	0.26	15.20	0.00	12.00	750.00	35.10	714.90

93RD NB RAB NORTH LEG

STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
100+25.00	70.69	4.78	0.00	0.00	0.00	0.00	0.00
100+50.00	66.56	4.21	64.00	4.00	64.00	5.20	58.80
100+61.00	66.01	0.02	27.00	1.00	91.00	6.50	84.50
100+75.00	66.40	2.16	34.00	1.00	125.00	7.80	117.20
101+00.00	67.78	5.39	62.00	3.00	187.00	11.70	175.30
101+25.00	63.09	12.13	61.00	8.00	248.00	22.10	225.90
101+50.00	23.56	0.00	40.00	6.00	288.00	29.90	258.10

93RD NB RAB SOUTH LEG

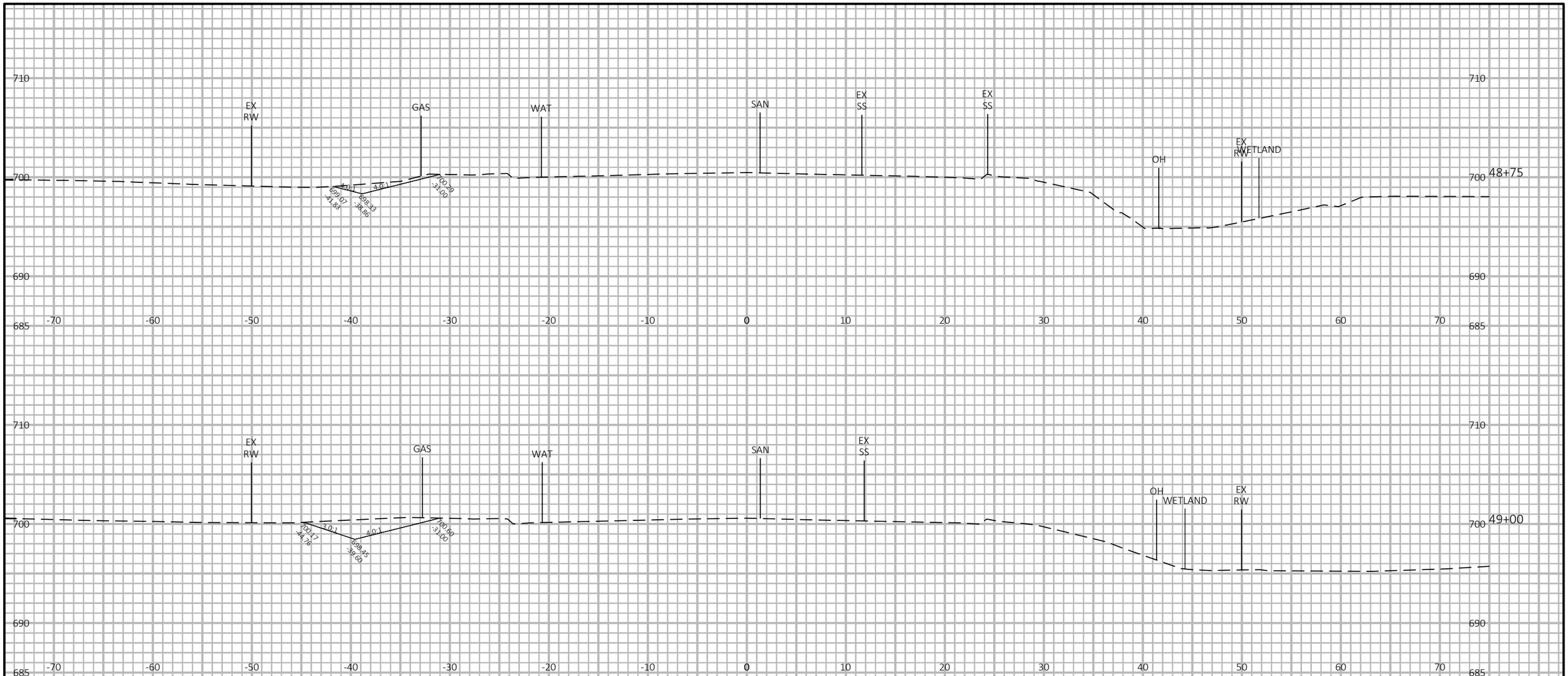
STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
93+85.00	86.90	2.97	0.00	0.00	0.00	0.00	0.00
94+00.00	73.42	8.05	45.00	3.00	45.00	3.90	41.10
94+25.00	66.28	7.77	65.00	7.00	110.00	13.00	97.00
94+50.00	66.99	4.11	62.00	6.00	172.00	20.80	151.20
94+75.00	88.63	5.13	72.00	4.00	244.00	26.00	218.00

93RD SB RAB NORTH LEG

STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
100+25.00	147.46	0.00	0.00	0.00	0.00	0.00	0.00
100+50.00	120.10	1.64	124.00	1.00	124.00	1.30	122.70
100+75.00	140.24	0.00	121.00	1.00	245.00	2.60	242.40
101+00.00	86.07	6.42	105.00	3.00	350.00	6.50	343.50
101+15.00	91.61	0.00	49.00	2.00	399.00	9.10	389.90
101+25.00	71.35	7.61	30.00	1.00	429.00	10.40	418.60
101+45.00	27.71	0.00	37.00	3.00	466.00	14.30	451.70

93RD SB RAB SOUTH LEG

STATION	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
94+00.00	88.27	5.58	0.00	0.00	0.00	0.00	0.00
94+25.00	94.84	0.60	85.00	3.00	85.00	3.90	81.10
94+40.00	148.98	0.00	68.00	0.00	153.00	3.90	149.10
94+50.00	151.92	0.00	56.00	0.00	209.00	3.90	205.10
94+75.00	131.35	0.00	131.00	0.00	340.00	3.90	336.10



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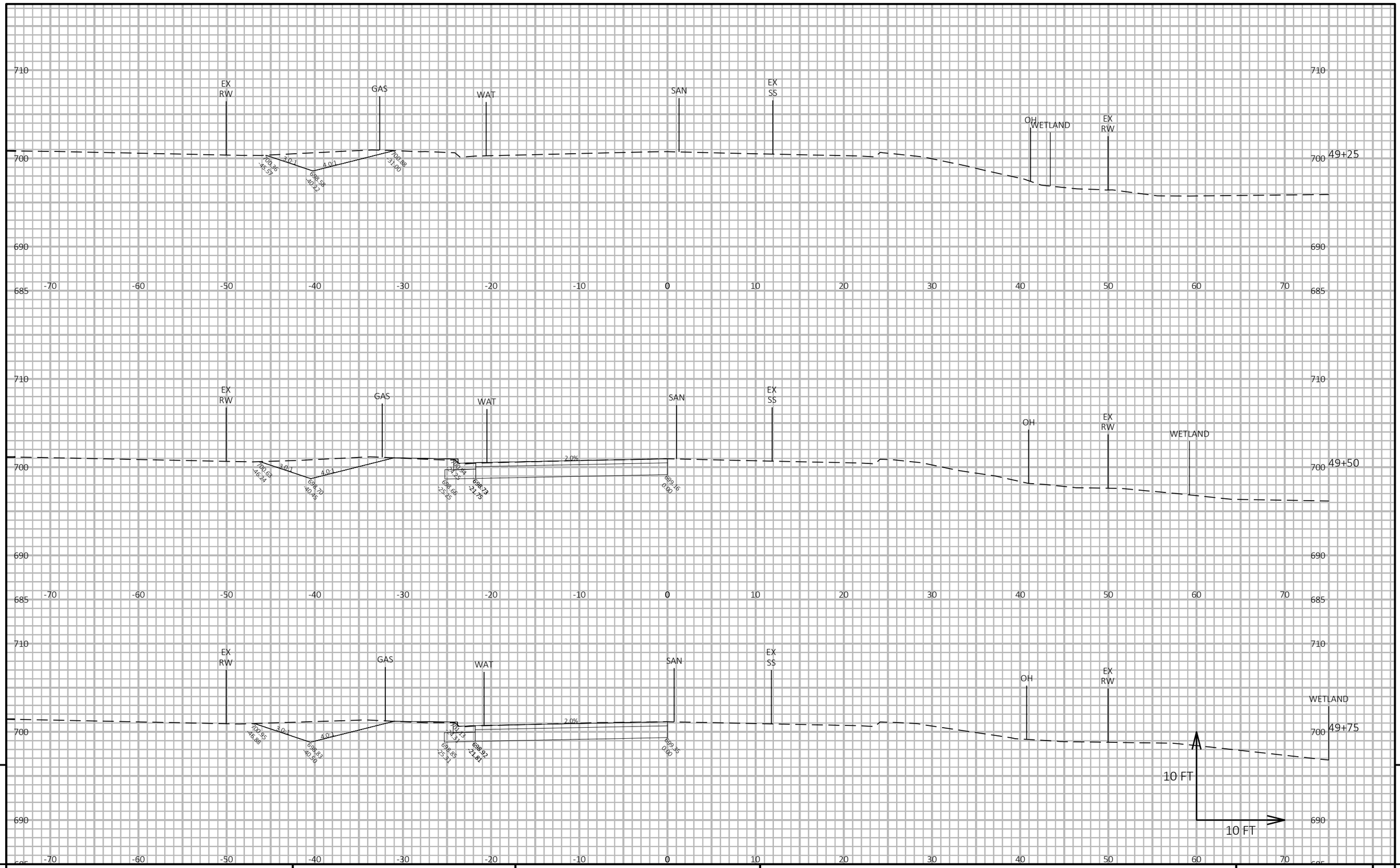
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 225	E

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LAYOUT NAME - DIT-1

PLOT DATE : 7/21/2026 7:32 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 226	E

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LAYOUT NAME - DIT-2

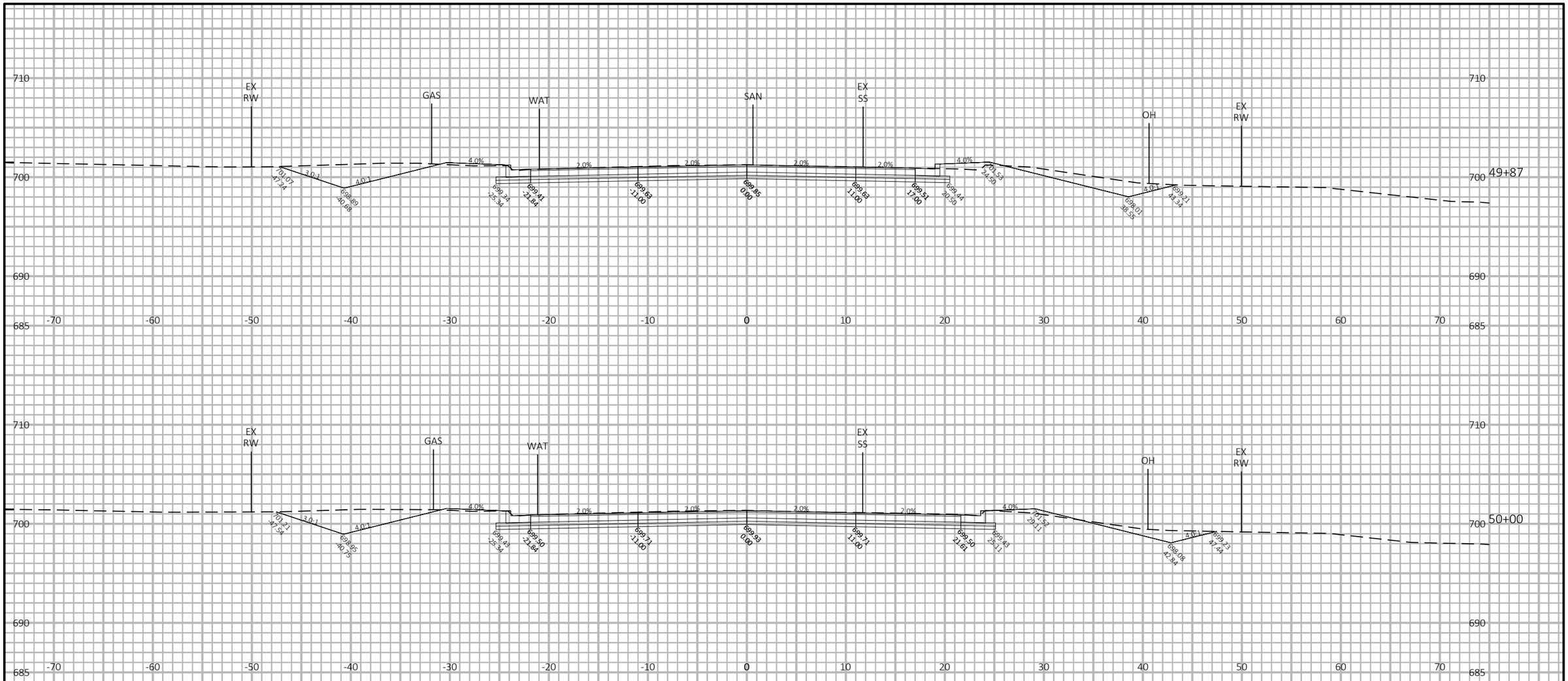
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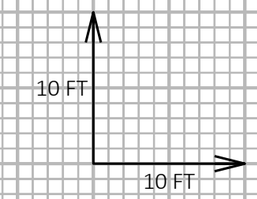
PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 227	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-1

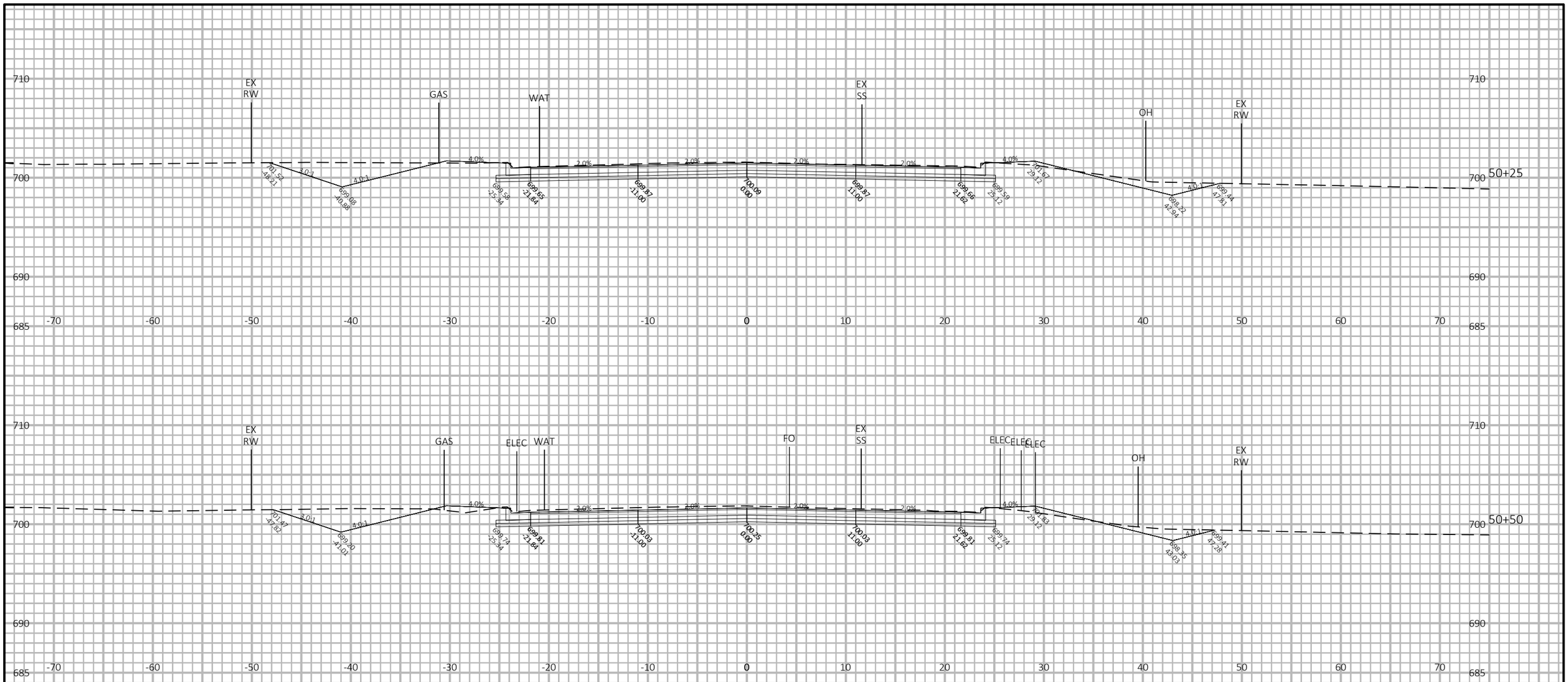
PLOT DATE : 7/21/2026 7:32 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 228 E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-2

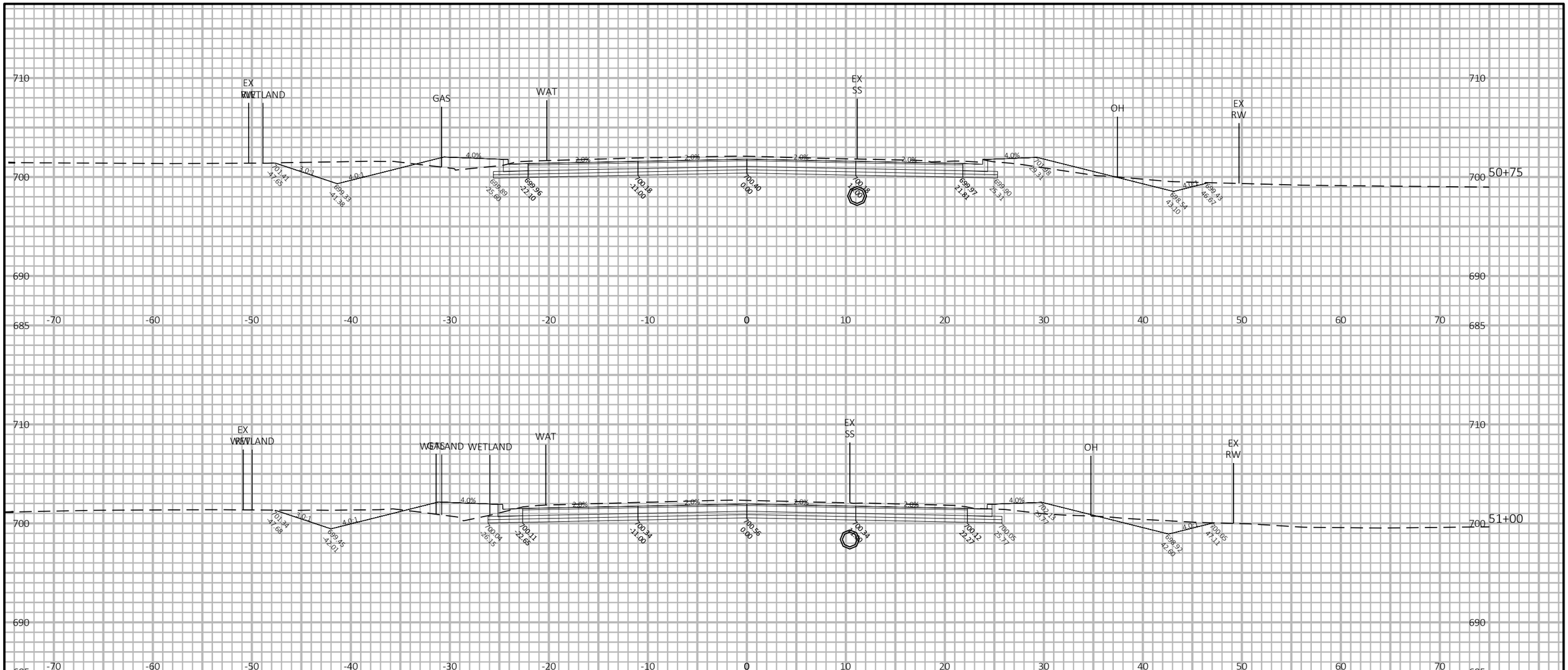
PLOT DATE : 7/21/2026 7:32 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

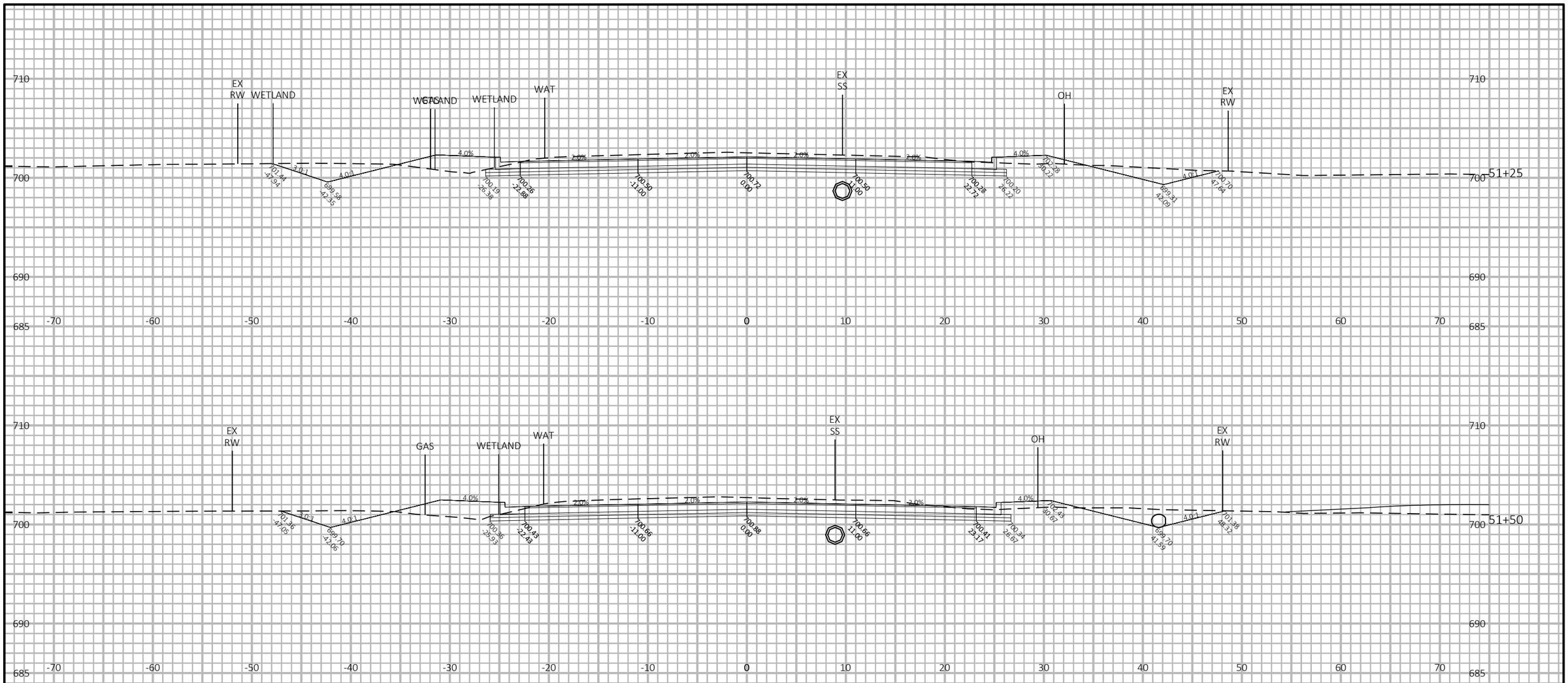


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LAYOUT NAME - XS-3

PLOT DATE : 7/21/2026 7:34 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



10 FT

10 FT

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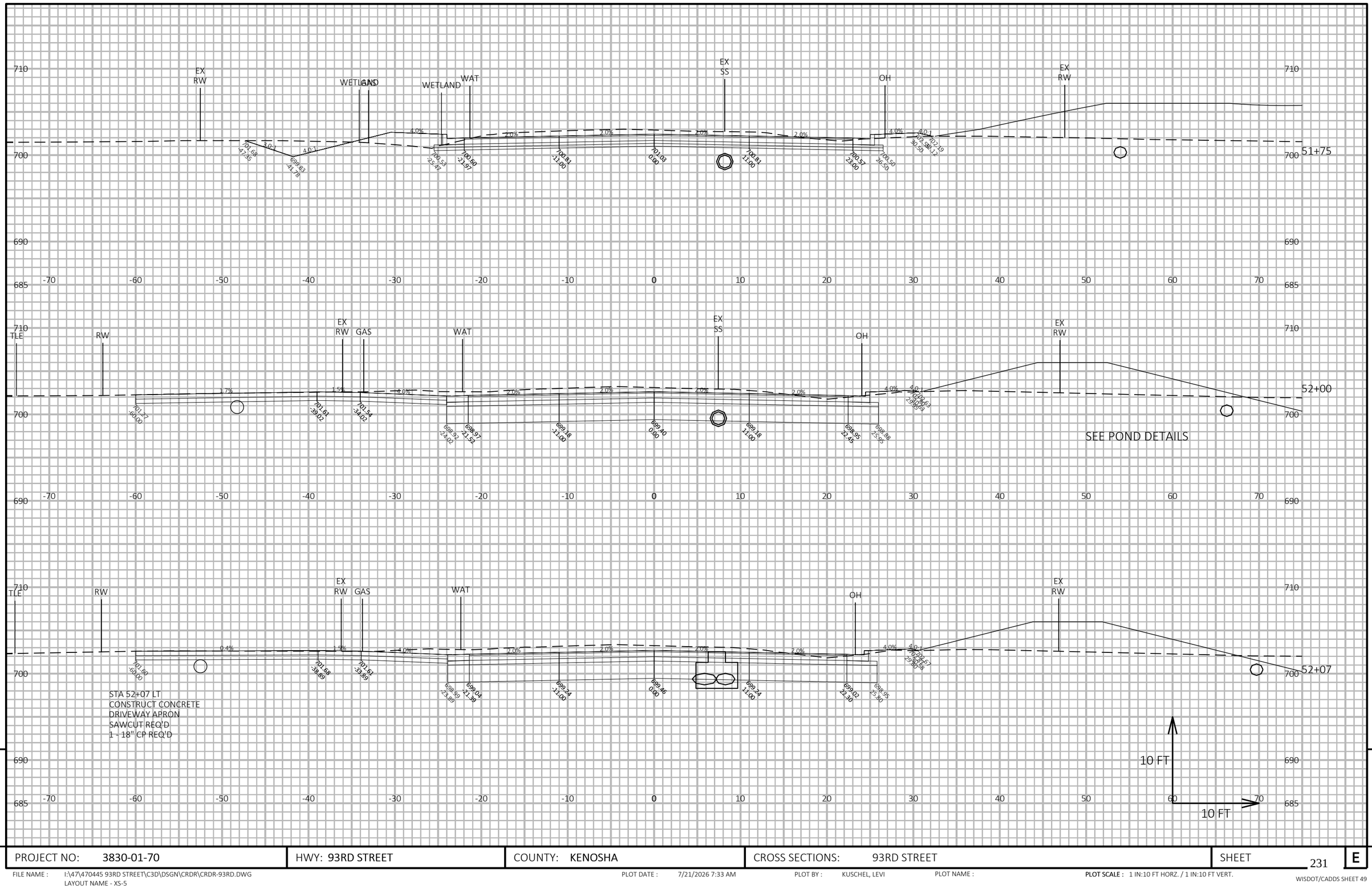
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FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-4

PLOT DATE : 7/21/2026 7:33 AM PLOT BY : KUSCHEL, LEVI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

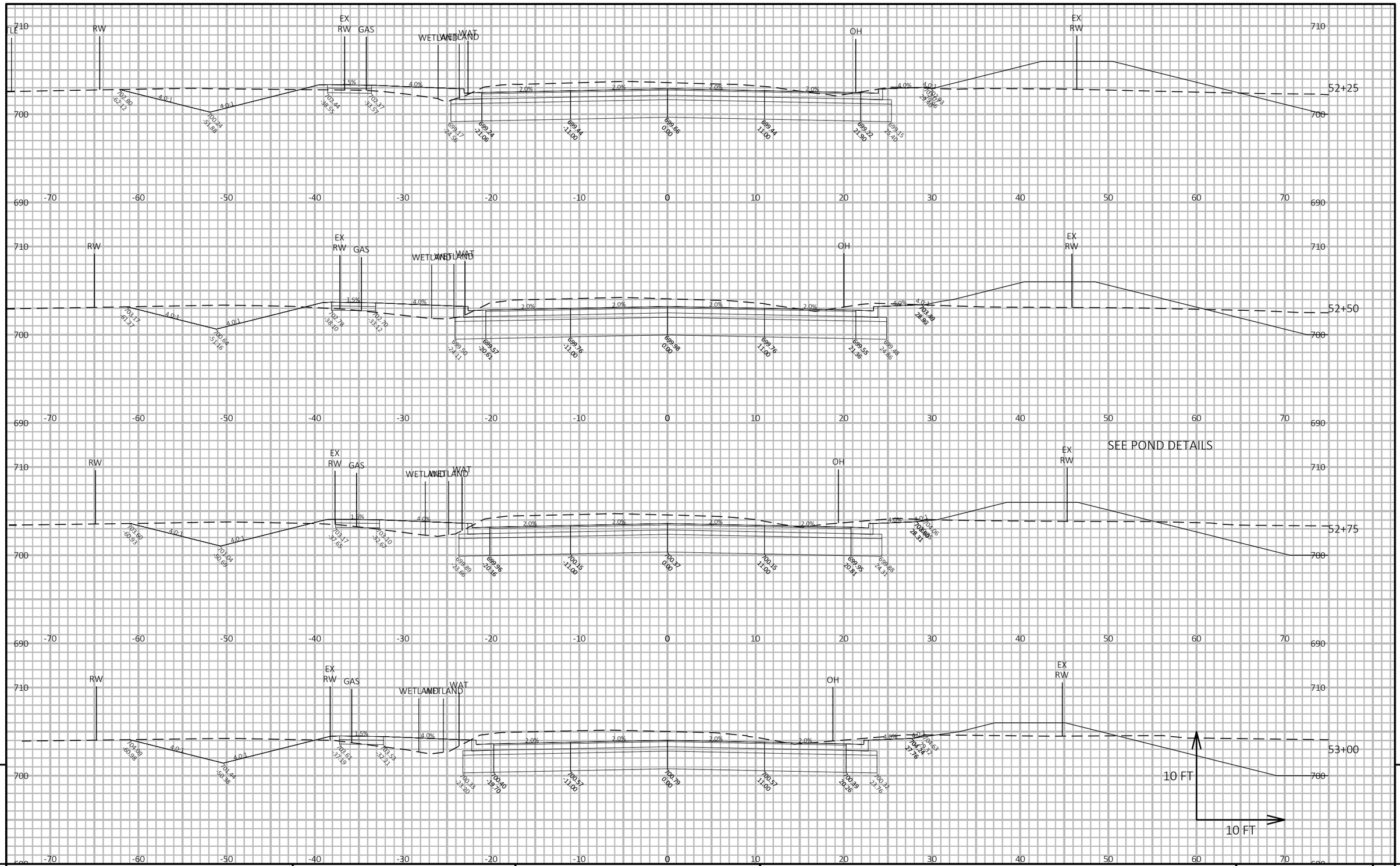


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 231	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-5

PLOT DATE : 7/21/2026 7:33 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 232	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-6

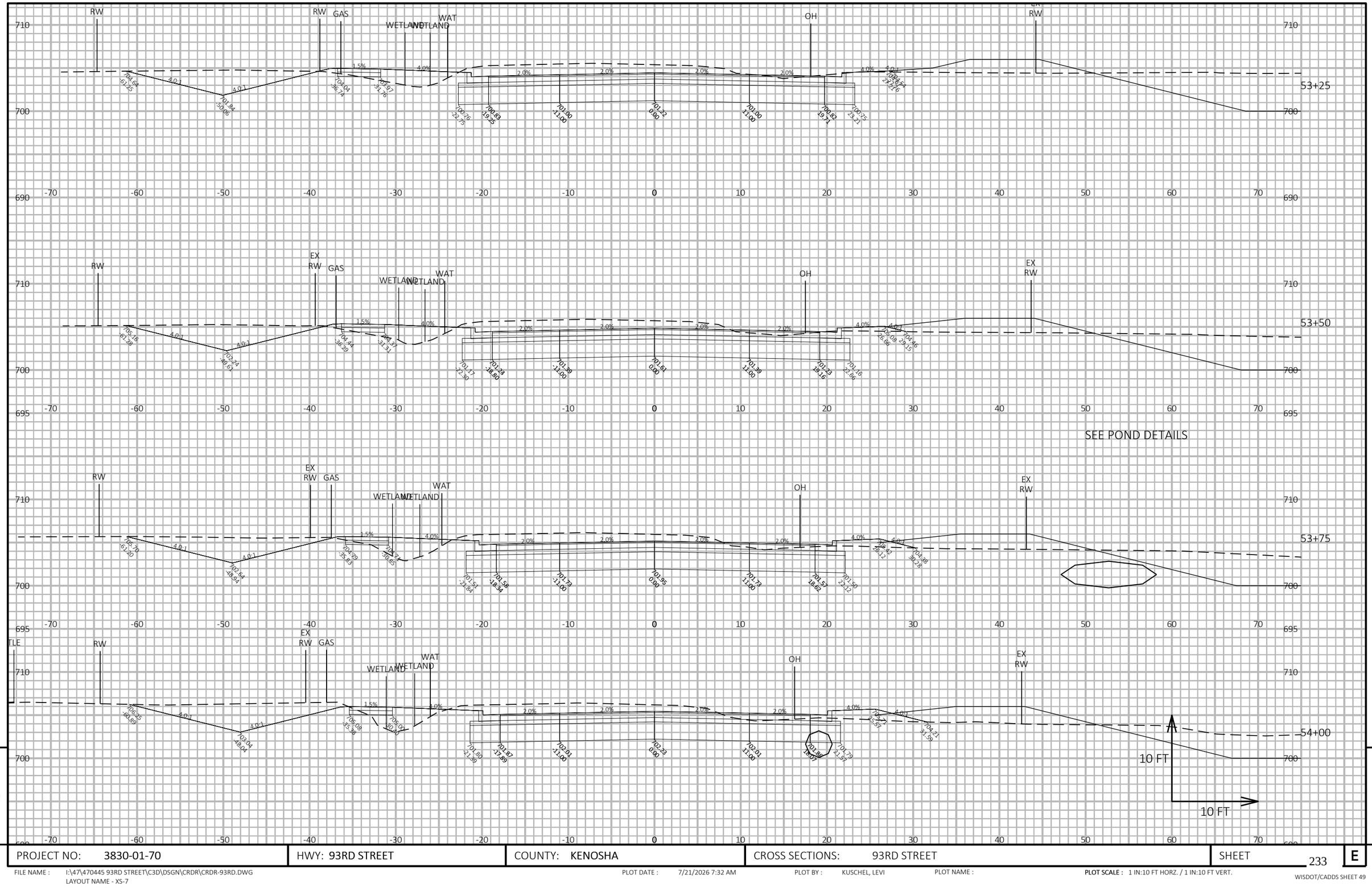
PLOT DATE : 7/21/2026 7:35 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

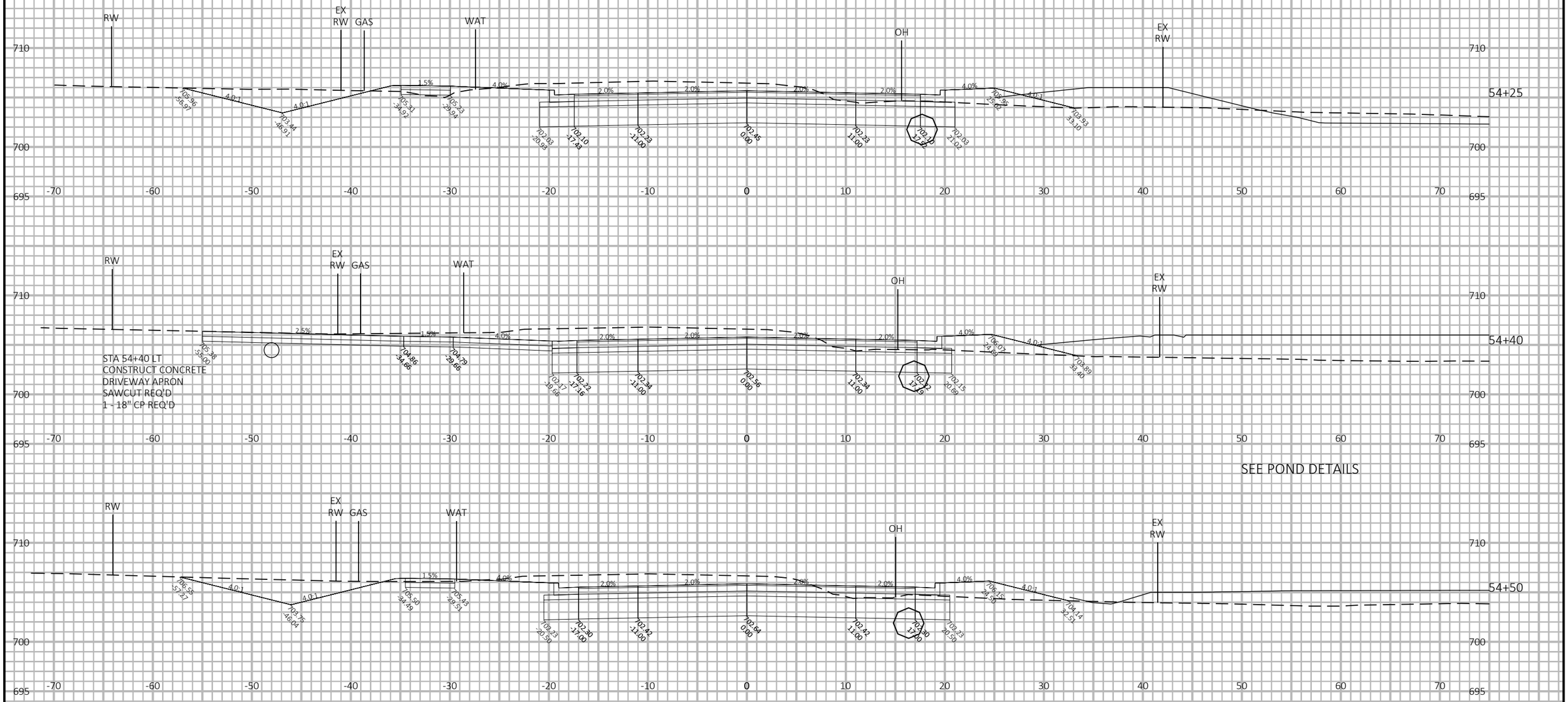


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 233	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-7

PLOT DATE : 7/21/2026 7:32 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 234	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-8

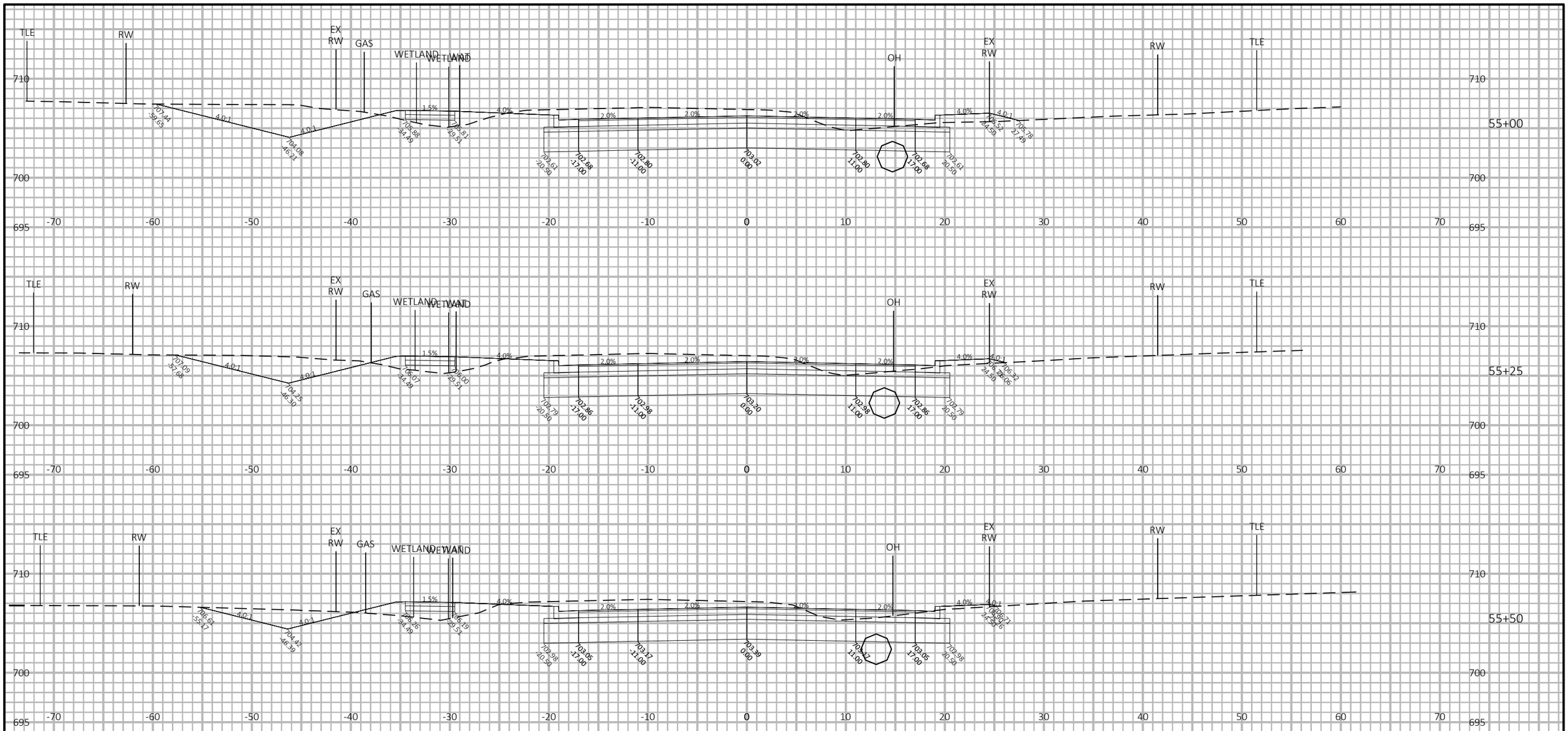
PLOT DATE : 7/21/2026 7:36 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 235	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-9

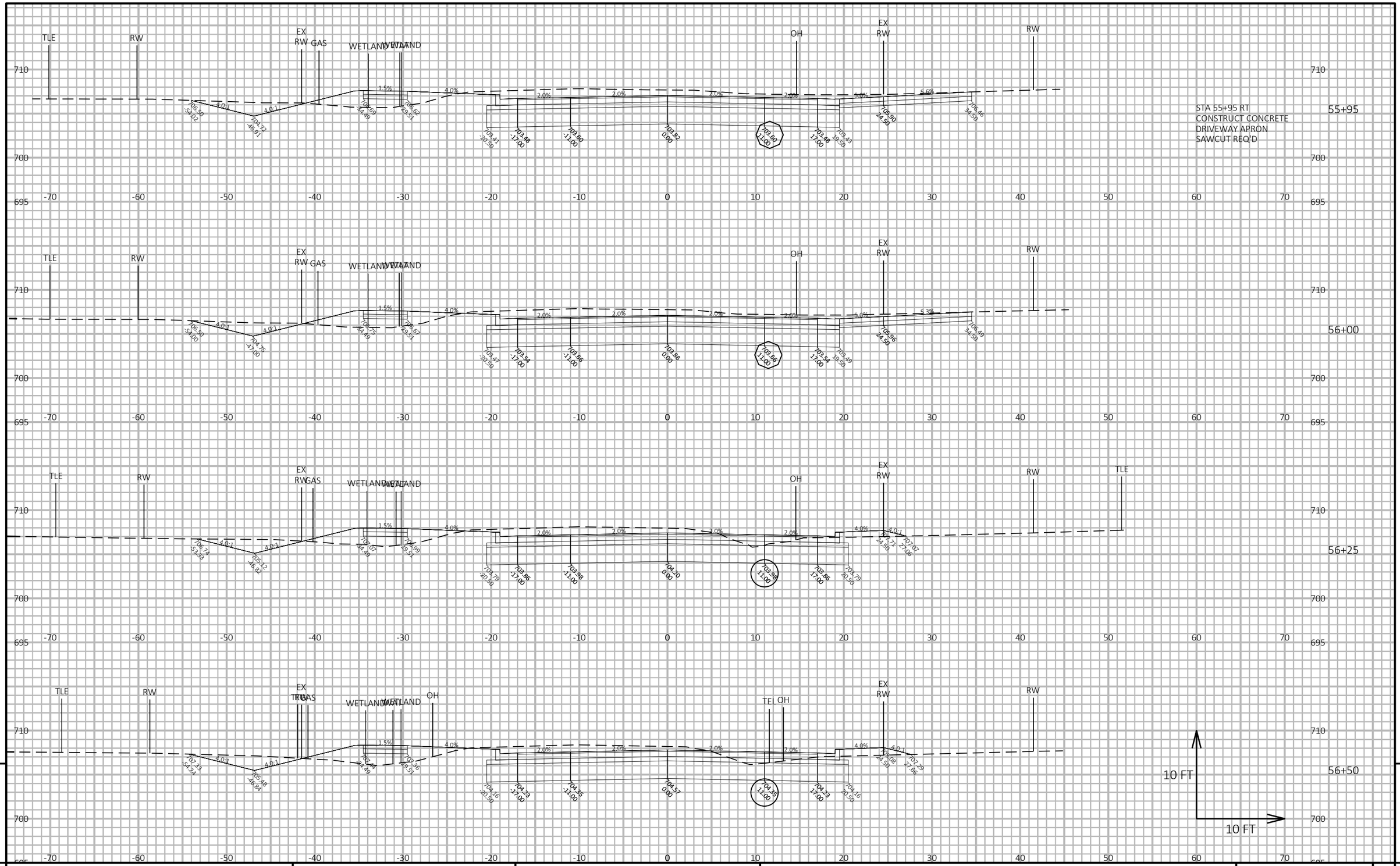
PLOT DATE : 7/21/2026 7:34 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

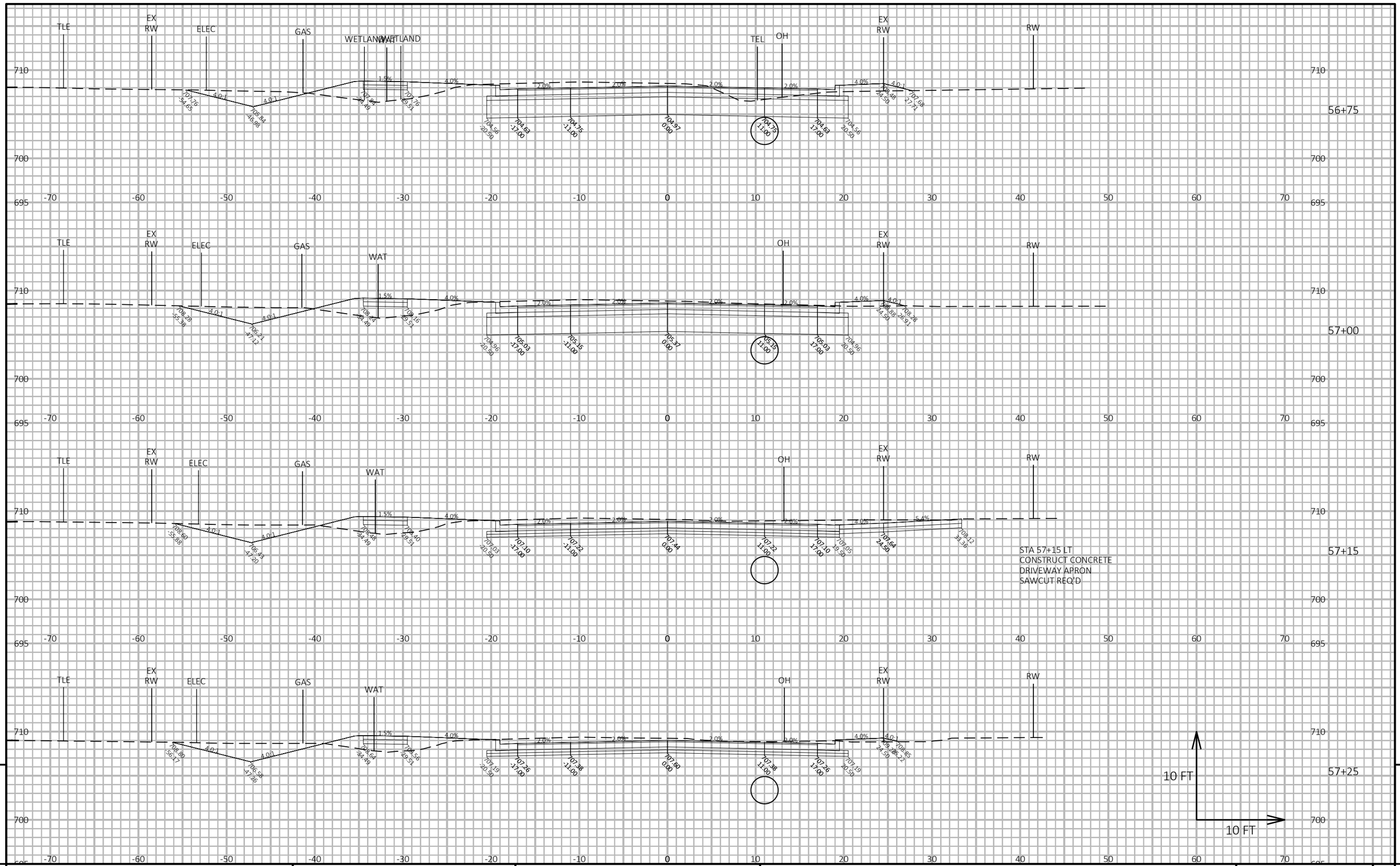
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 236	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-10

PLOT DATE : 7/21/2026 7:33 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9



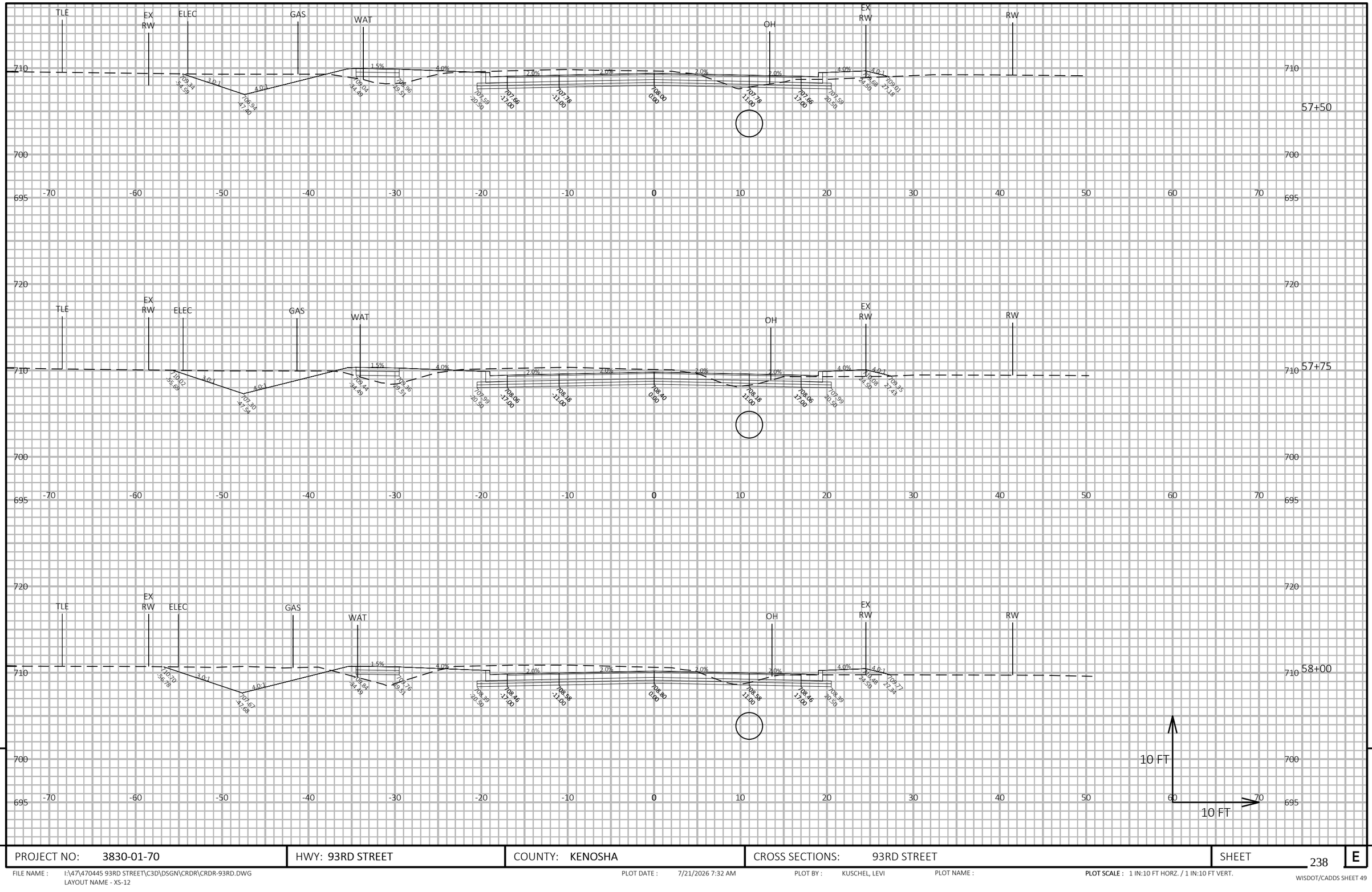
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 237	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-11

PLOT DATE : 7/21/2026 7:36 AM PLOT BY : KUSCHEL, LEVI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

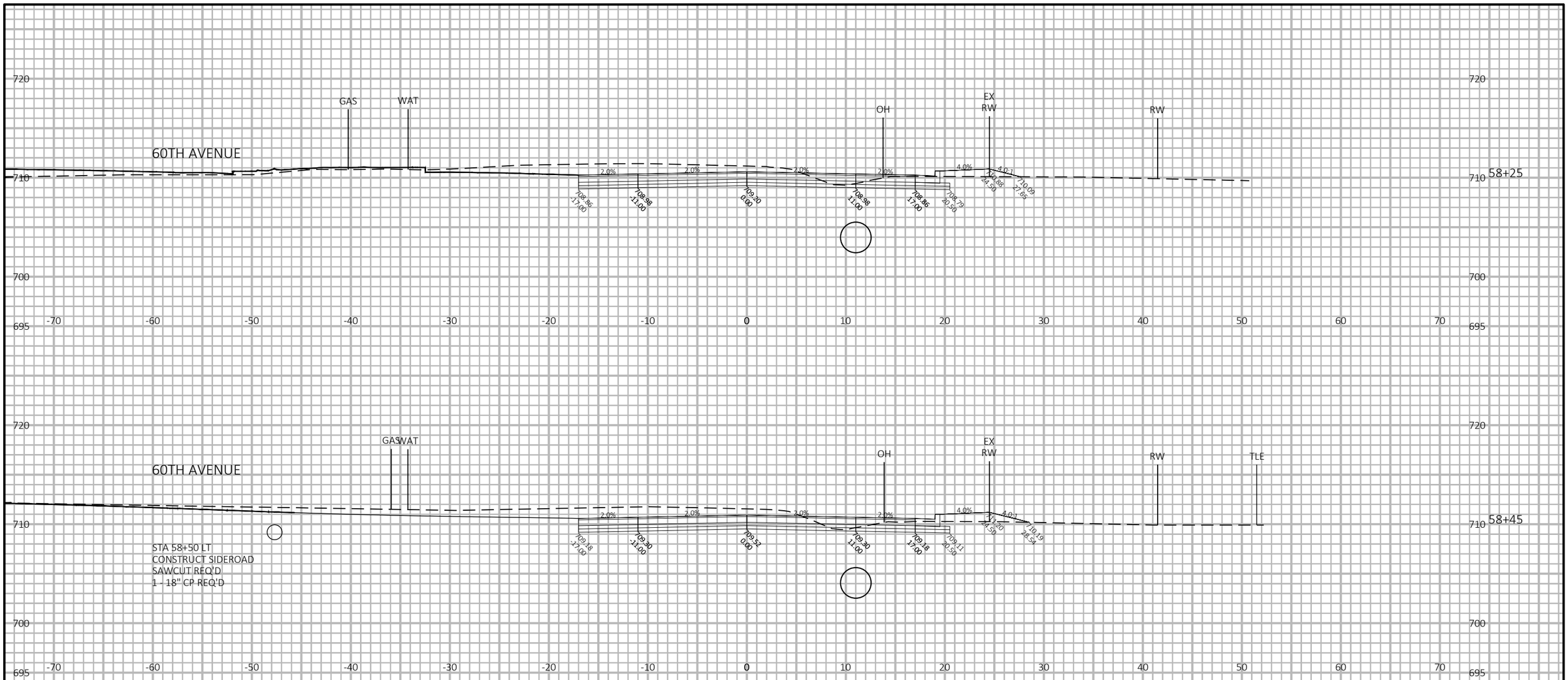


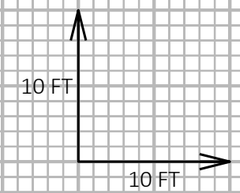
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 238 E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-12

PLOT DATE : 7/21/2026 7:32 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 239	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-13

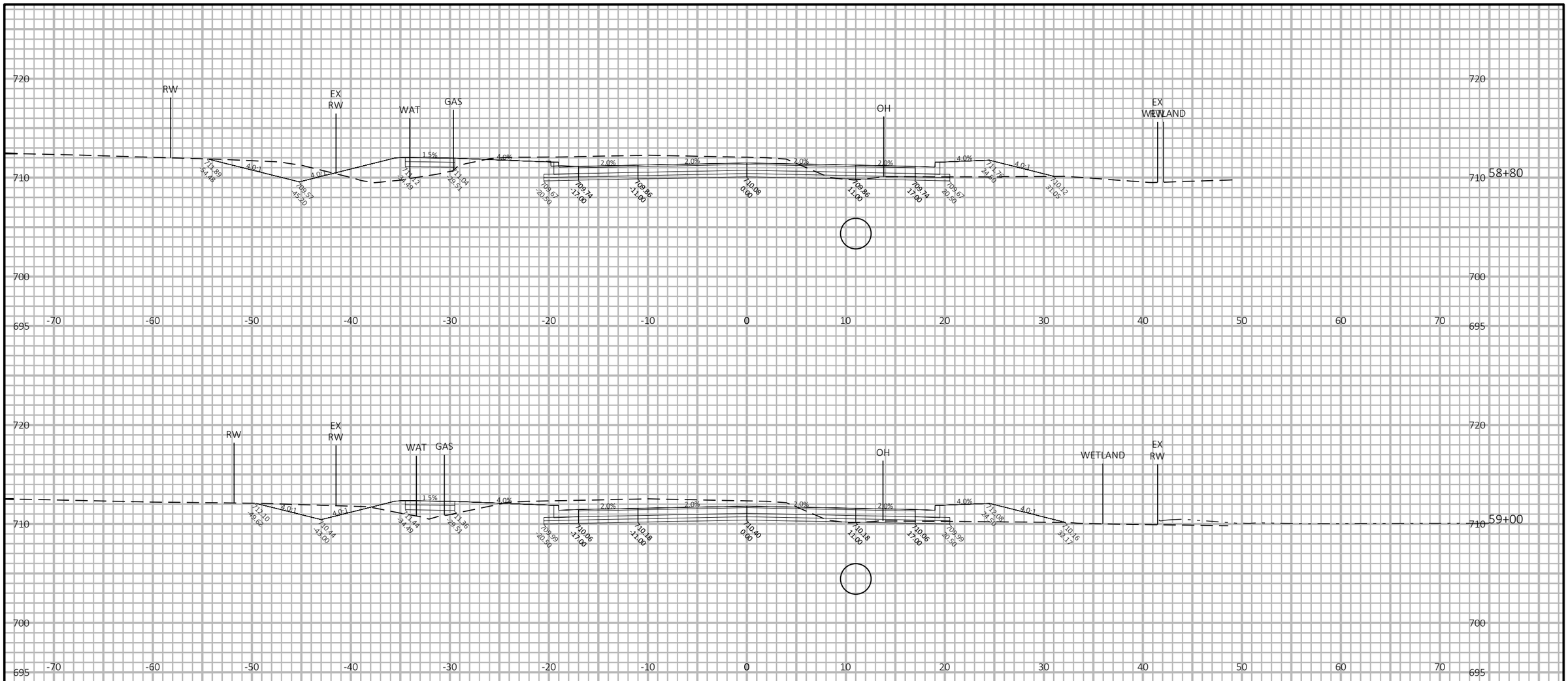
PLOT DATE : 7/21/2026 7:35 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



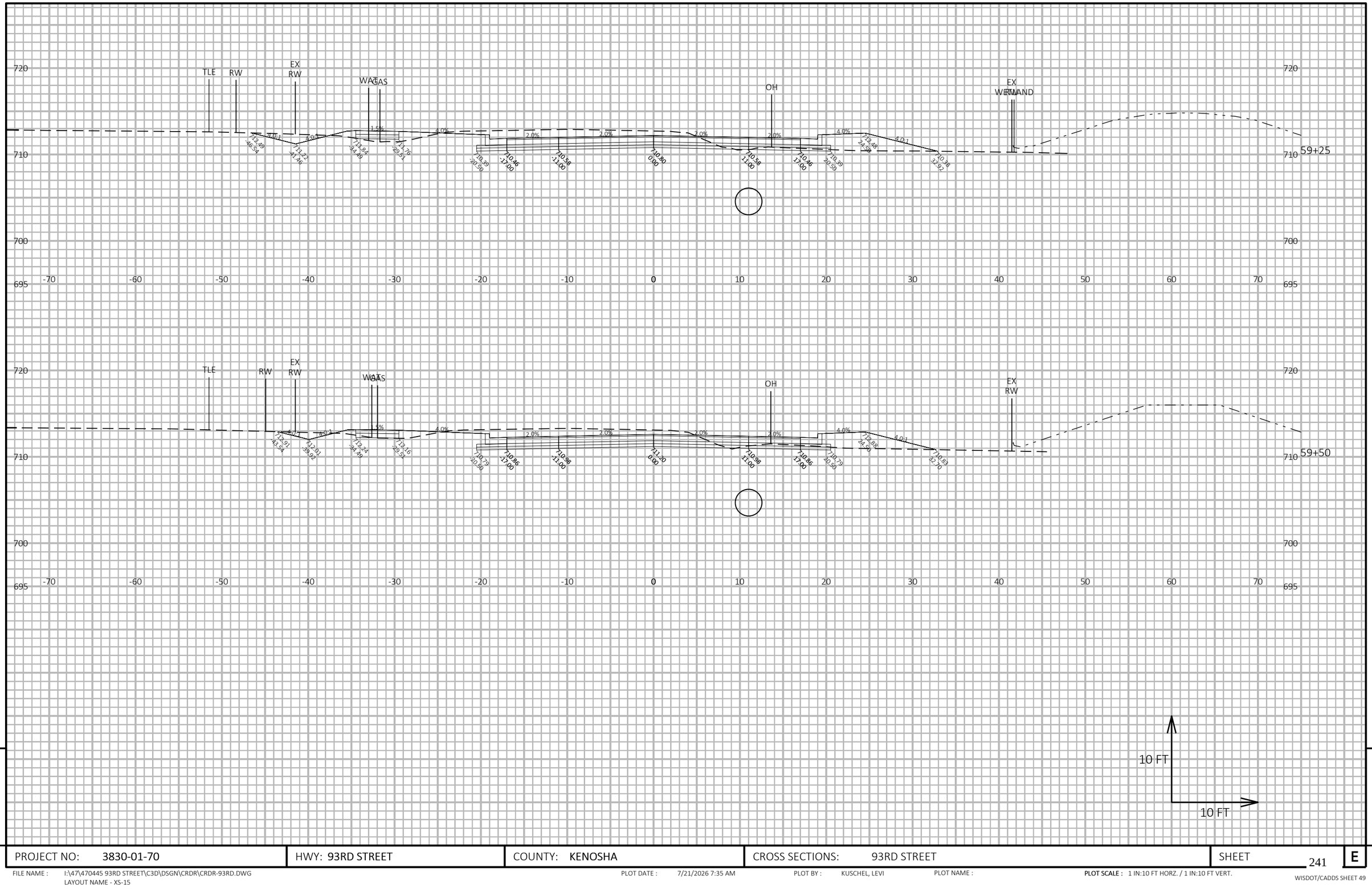
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 240 E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-14

PLOT DATE : 7/21/2026 7:32 AM PLOT BY : KUSCHEL, LEVI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 241	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-15

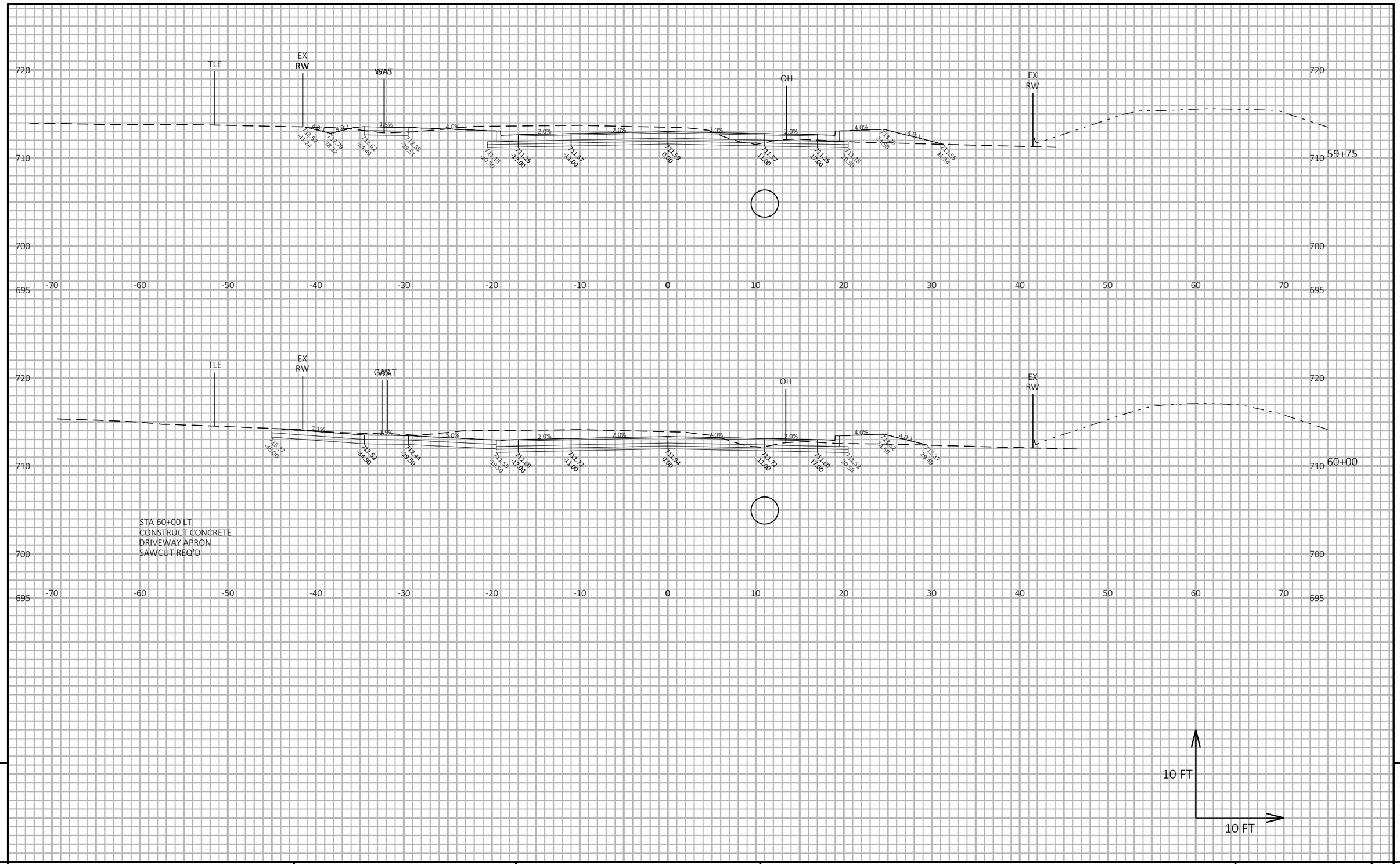
PLOT DATE : 7/21/2026 7:35 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

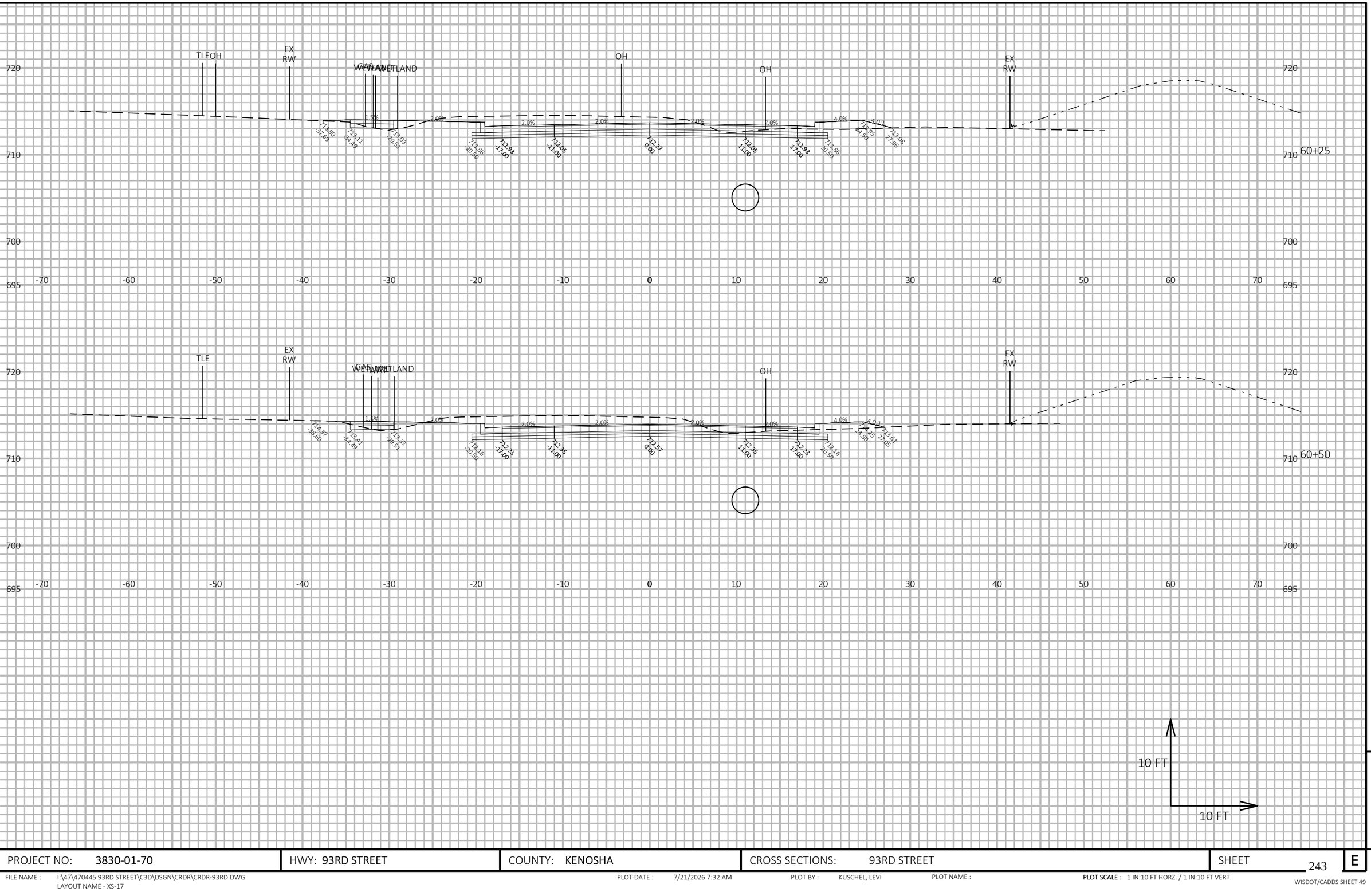
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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 242	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-16

PLOT DATE : 7/21/2026 7:34 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

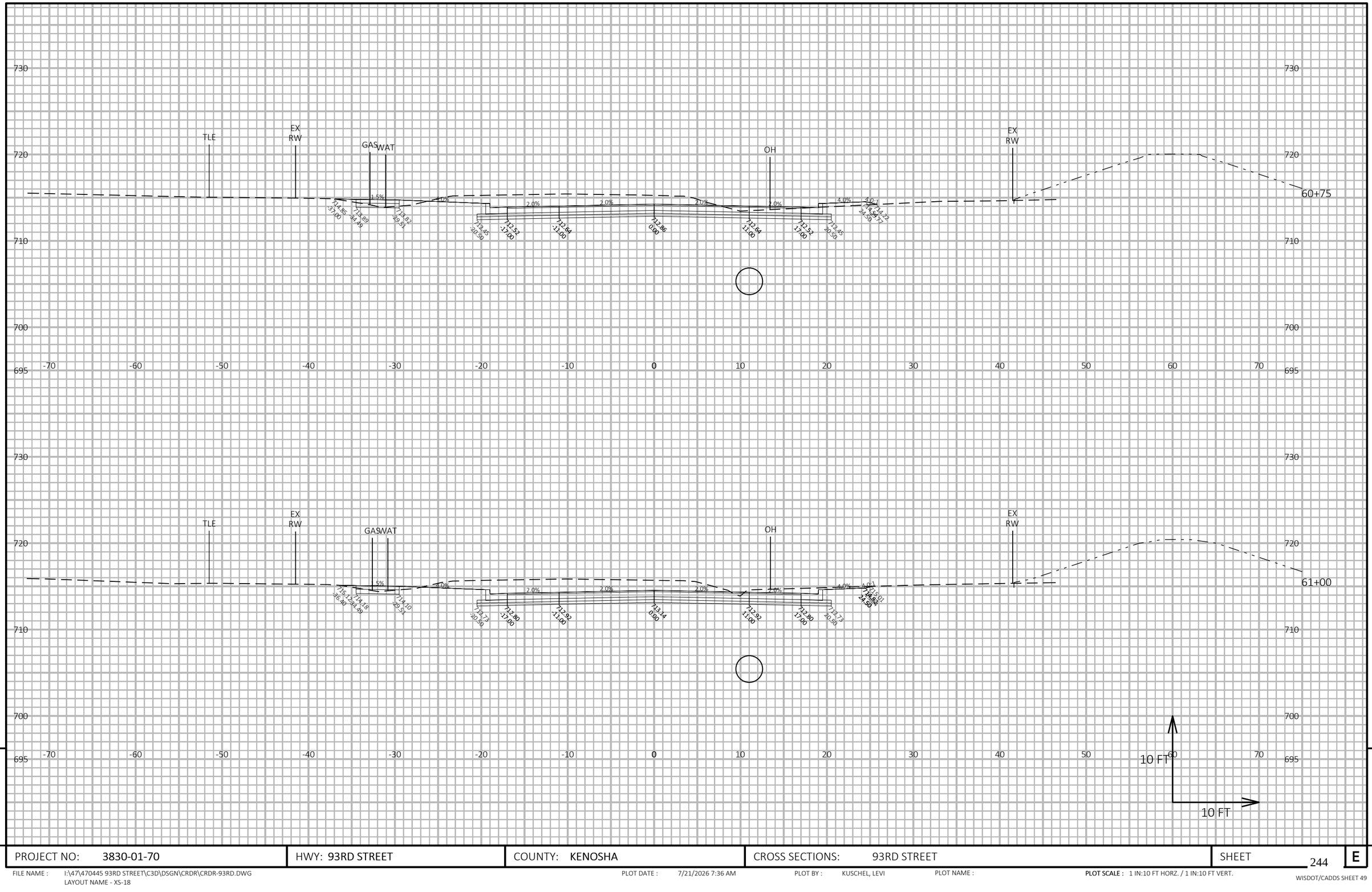
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 243	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-17

PLOT DATE : 7/21/2026 7:32 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9



9

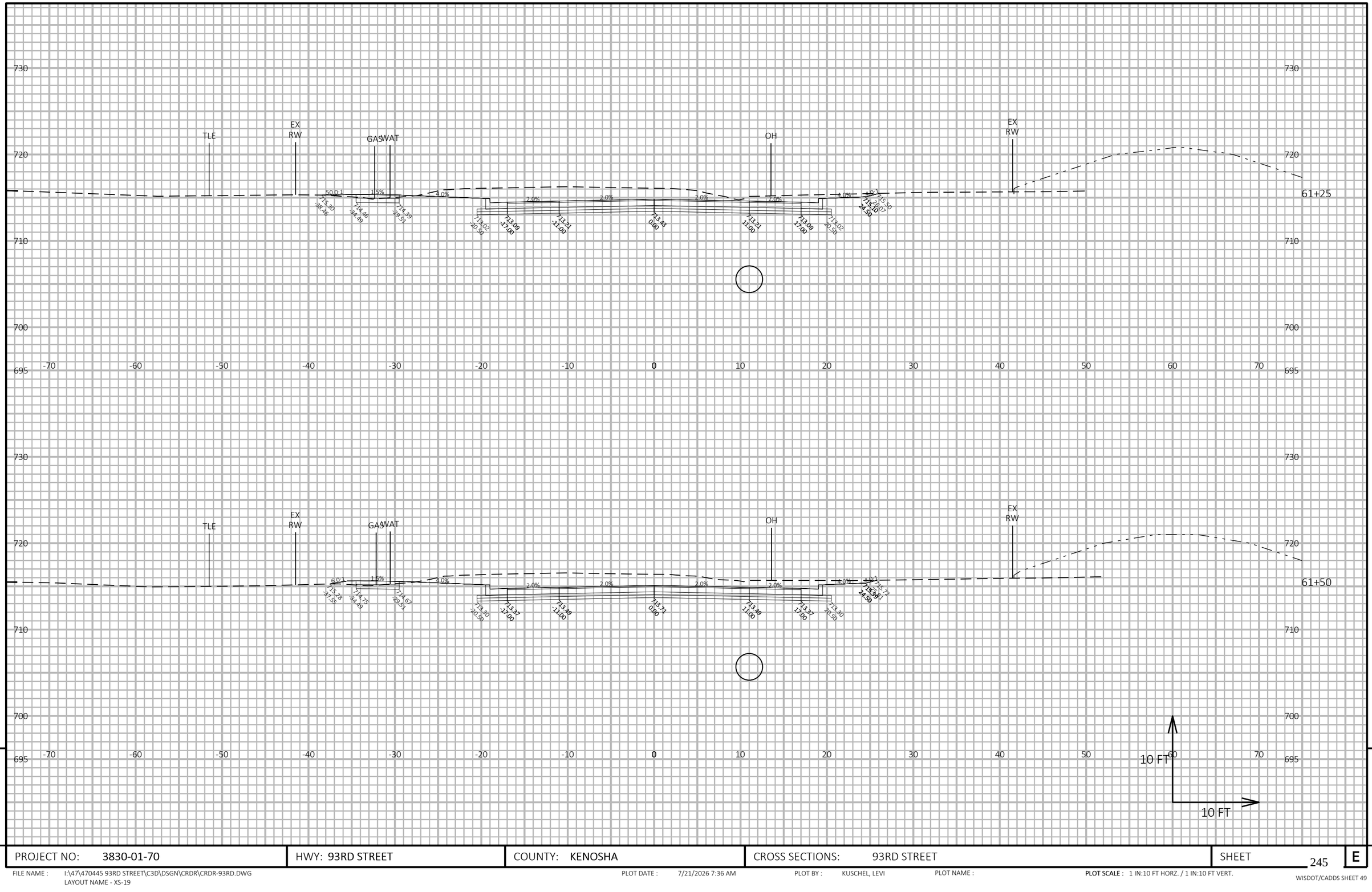
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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 244	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-18

PLOT DATE : 7/21/2026 7:36 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

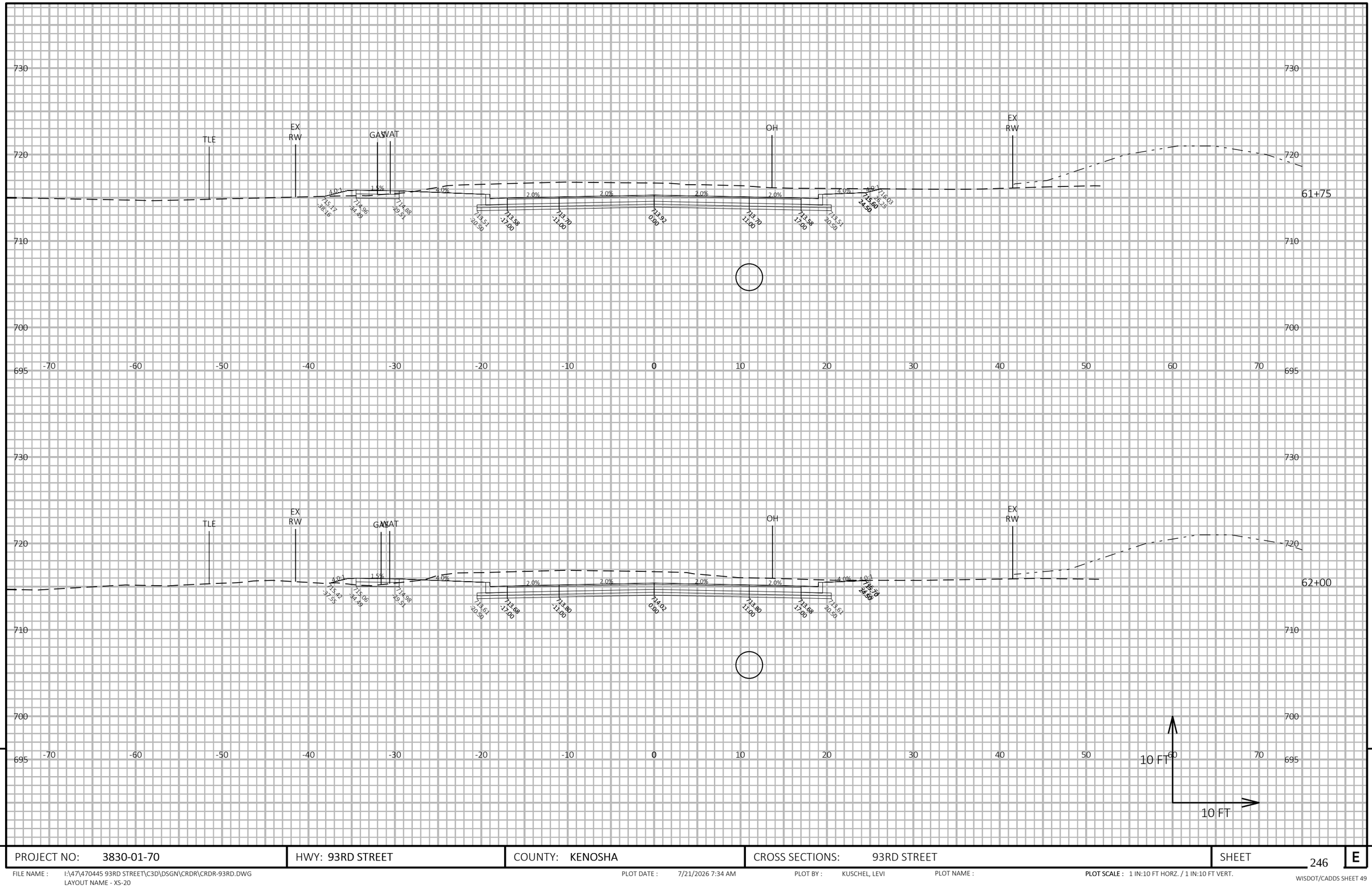


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 245	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-19

PLOT DATE : 7/21/2026 7:36 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

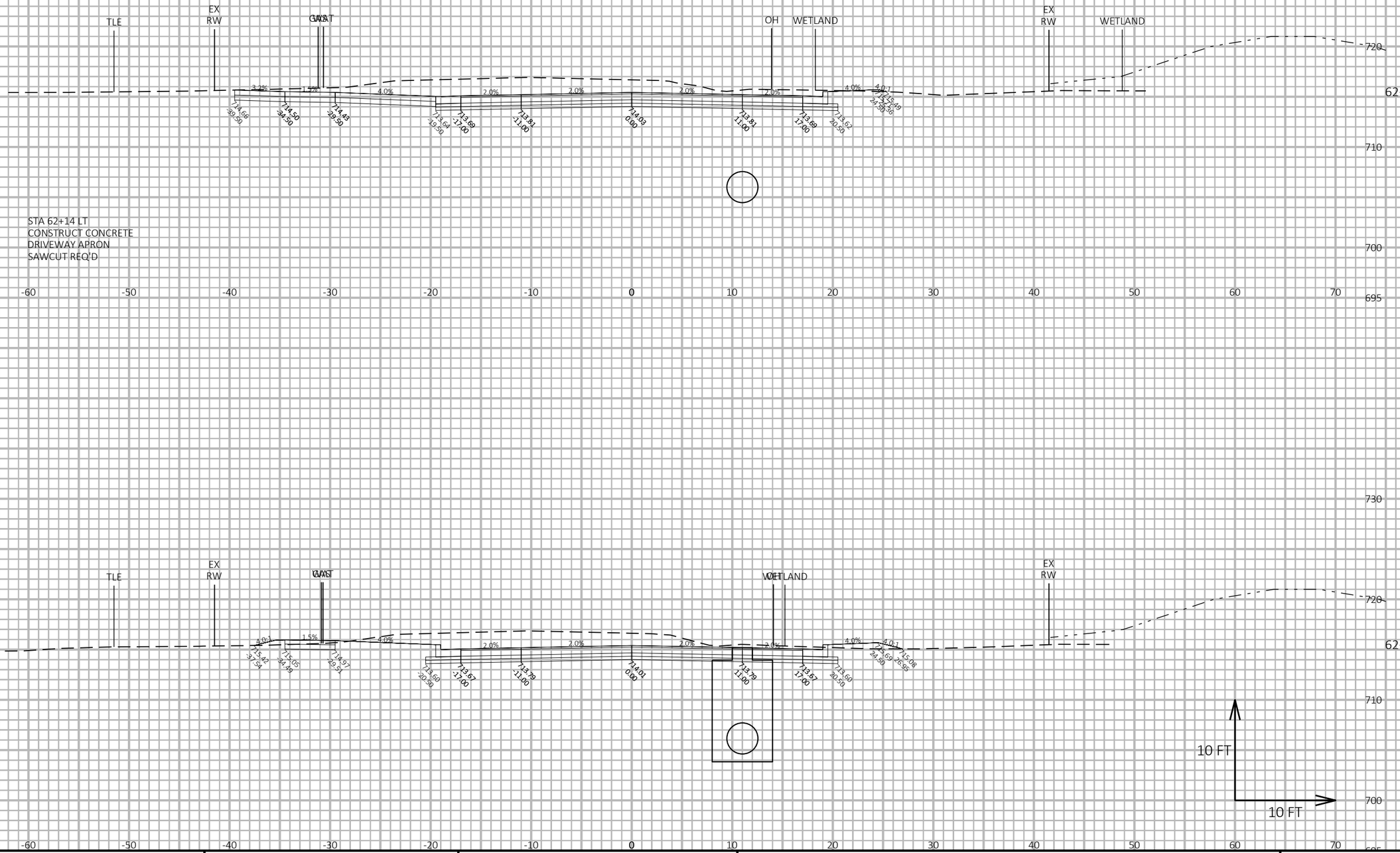
9

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 246	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-20

PLOT DATE : 7/21/2026 7:34 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

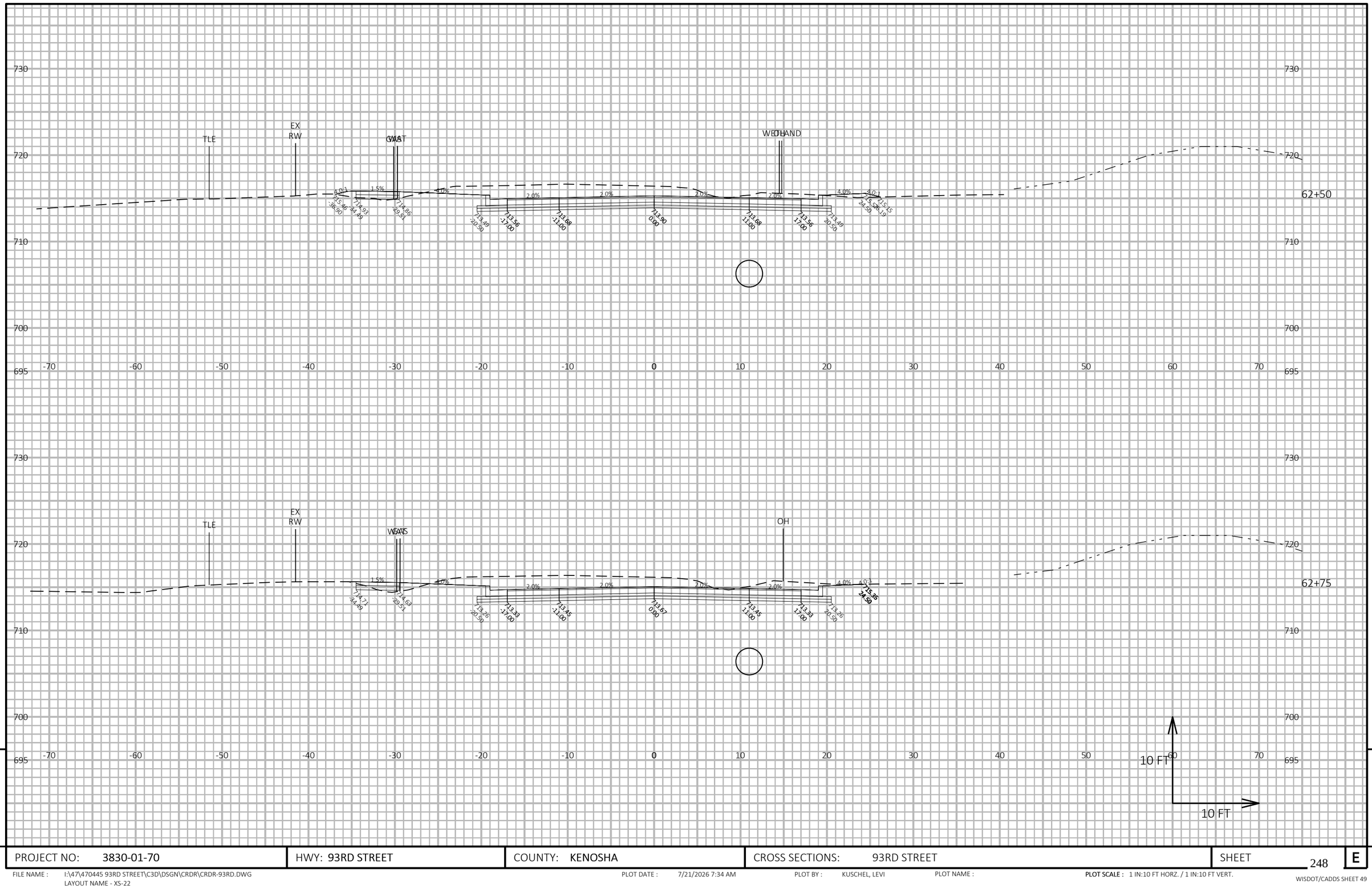
9

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 247	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-21

PLOT DATE : 7/21/2026 7:32 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

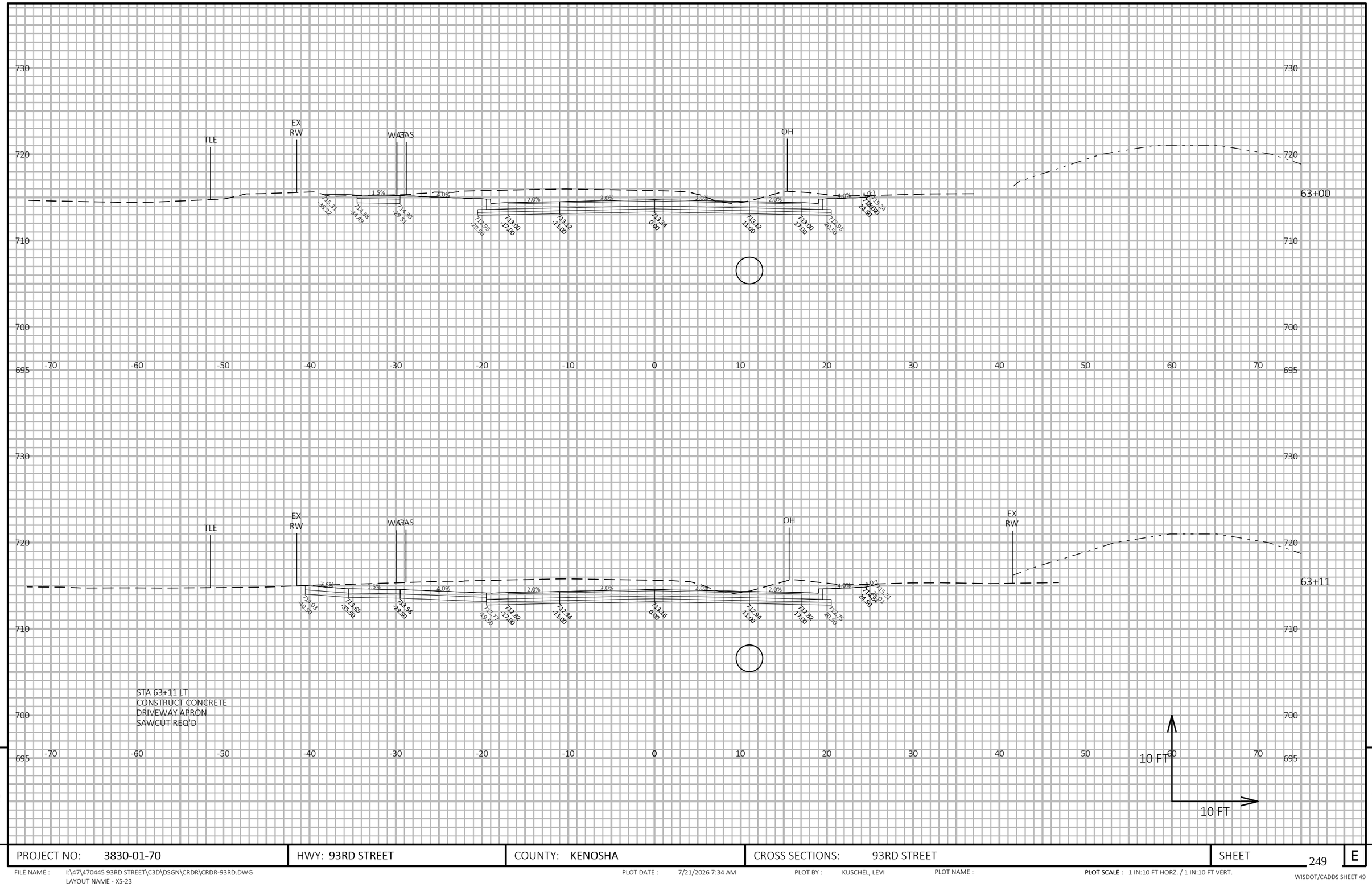
9

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 248	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-22

PLOT DATE : 7/21/2026 7:34 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

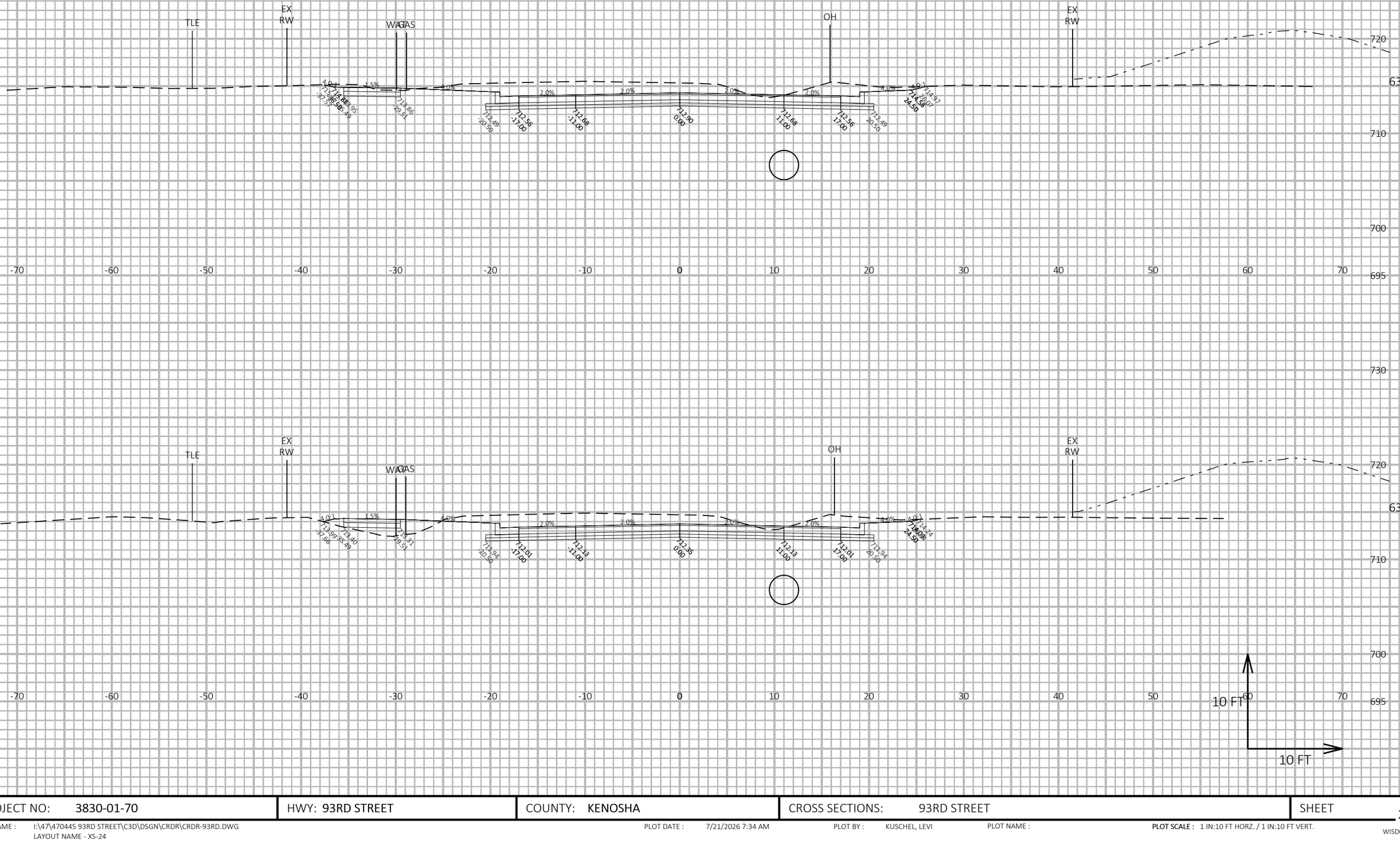


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 249	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-23

PLOT DATE : 7/21/2026 7:34 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

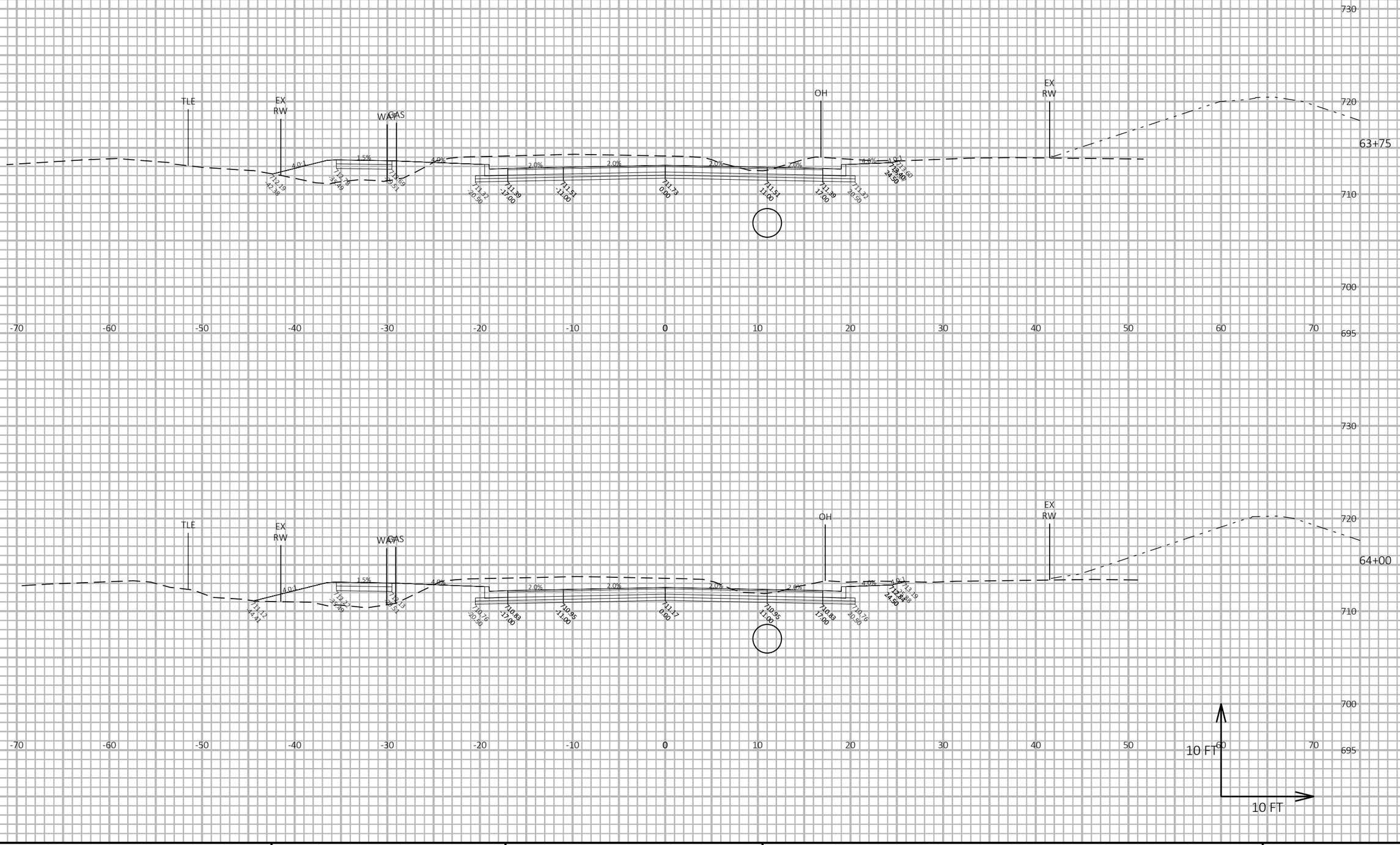
9

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 250	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-24

PLOT DATE : 7/21/2026 7:34 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

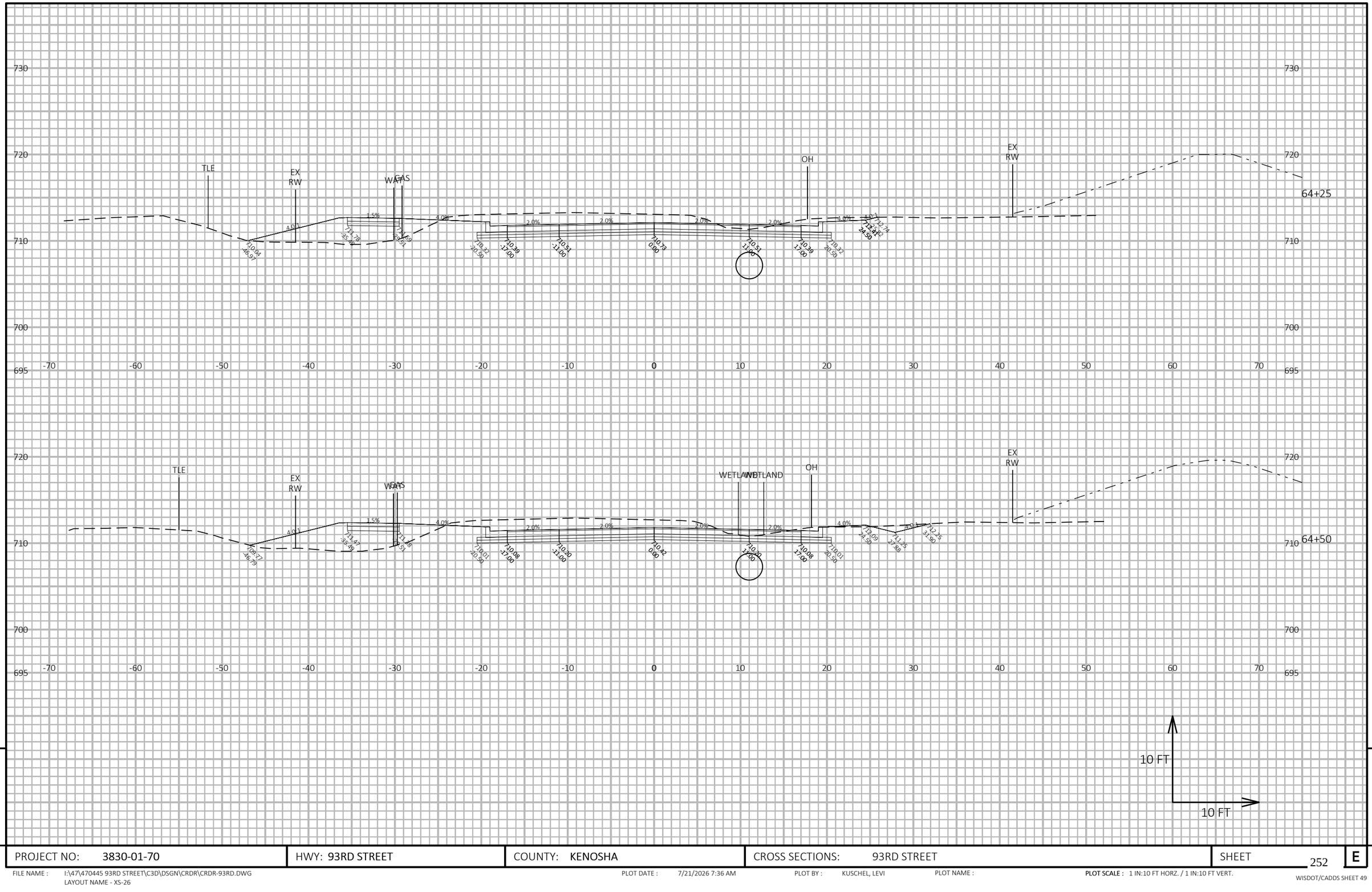


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 251 E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-25

PLOT DATE : 7/21/2026 7:35 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

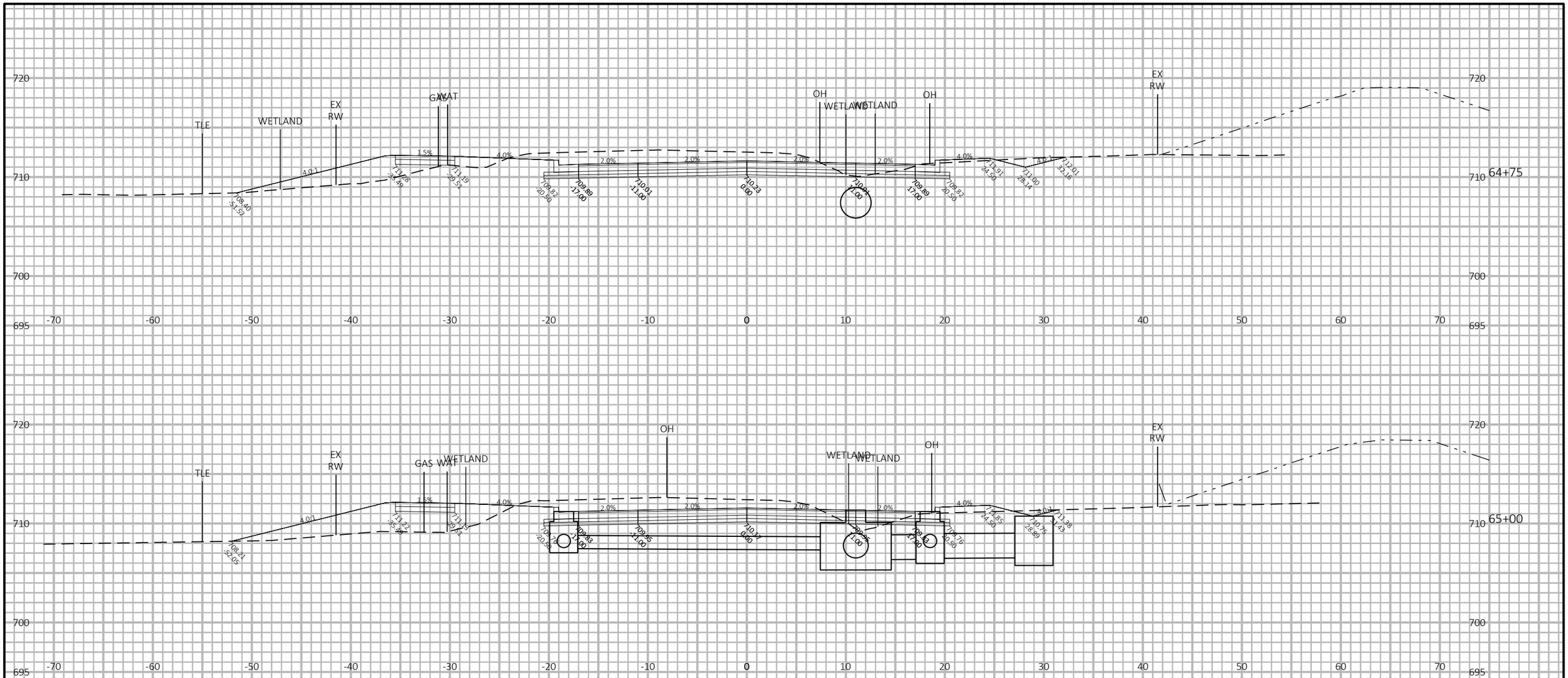


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 252	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-26

PLOT DATE : 7/21/2026 7:36 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

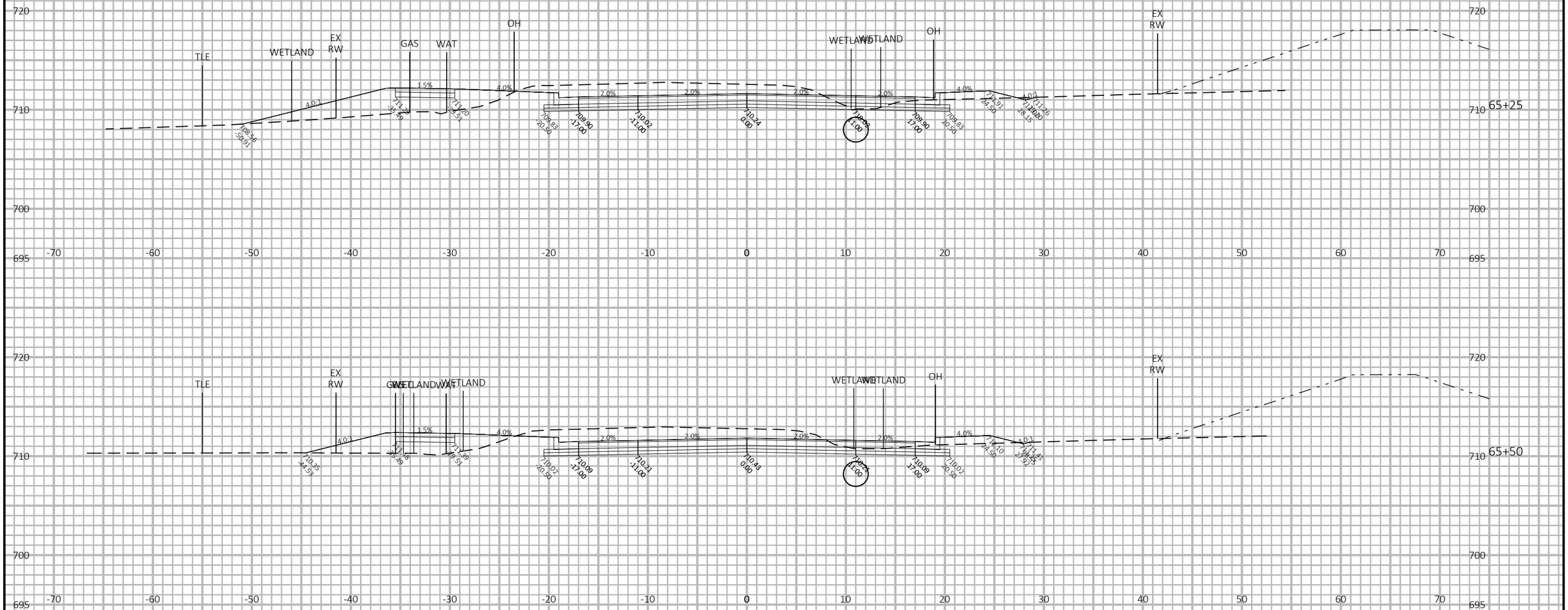
9

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 253	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-27

PLOT DATE : 7/21/2026 7:35 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

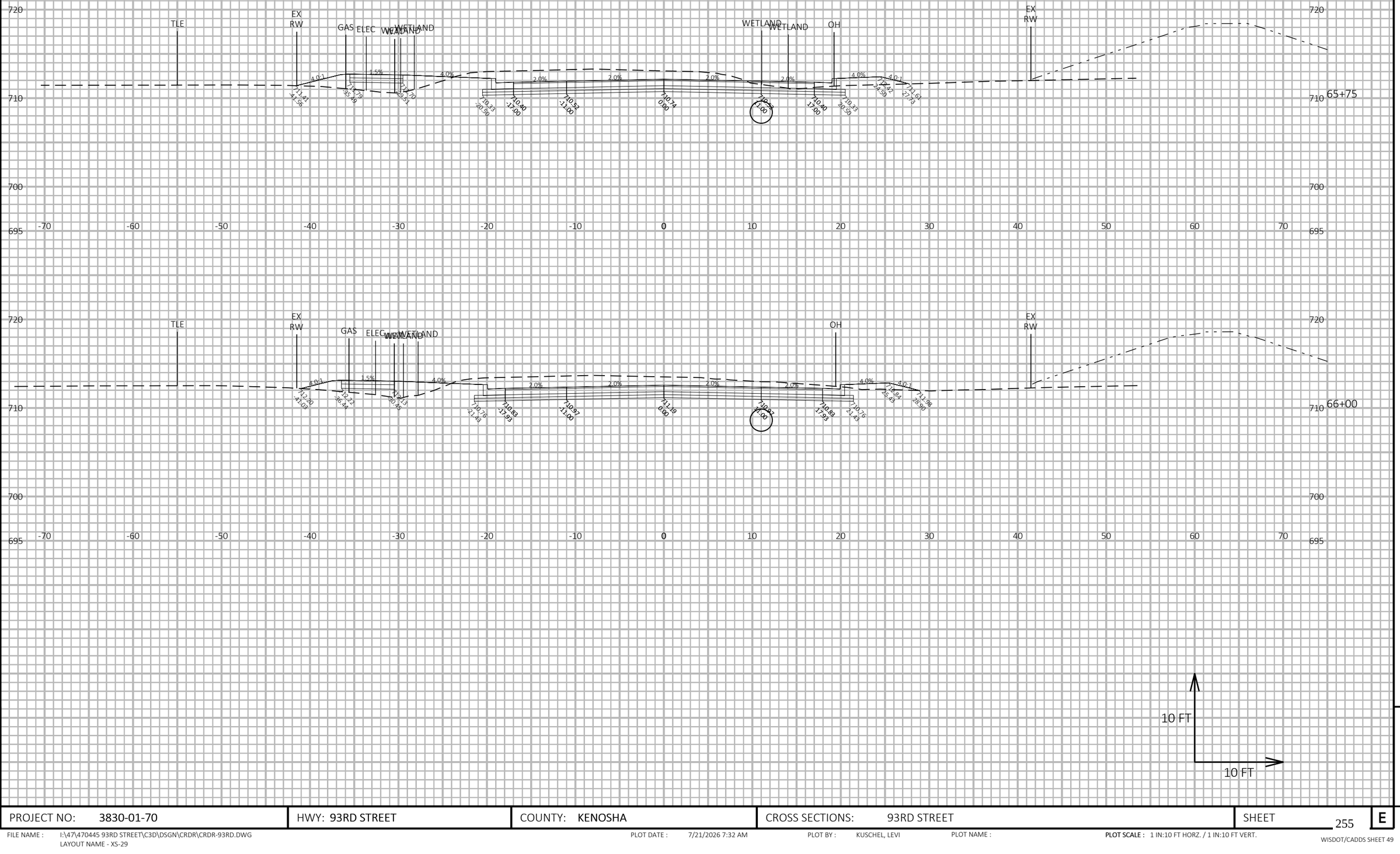
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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 254	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-28

PLOT DATE : 7/21/2026 7:32 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 255	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-29

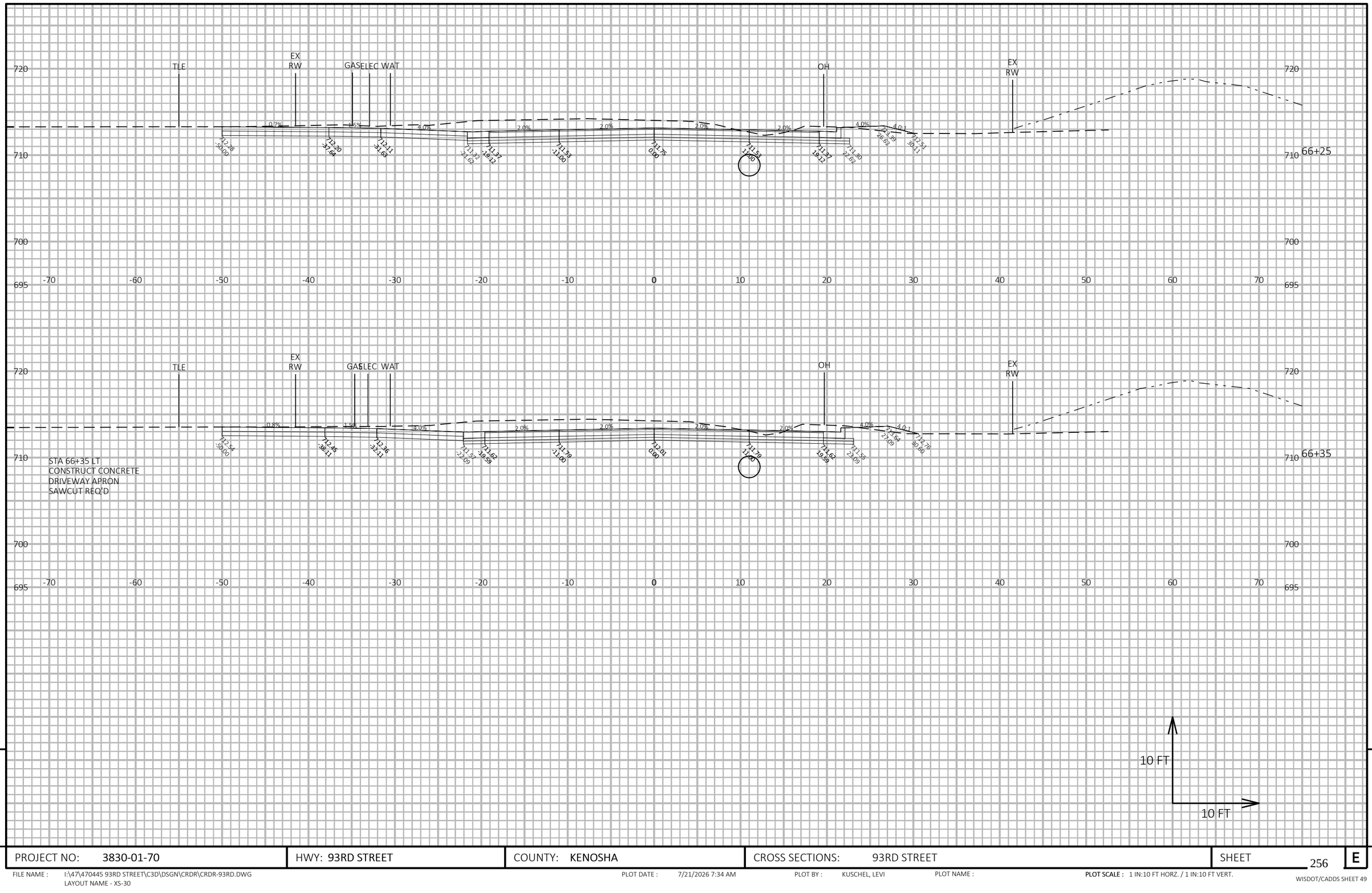
PLOT DATE : 7/21/2026 7:32 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

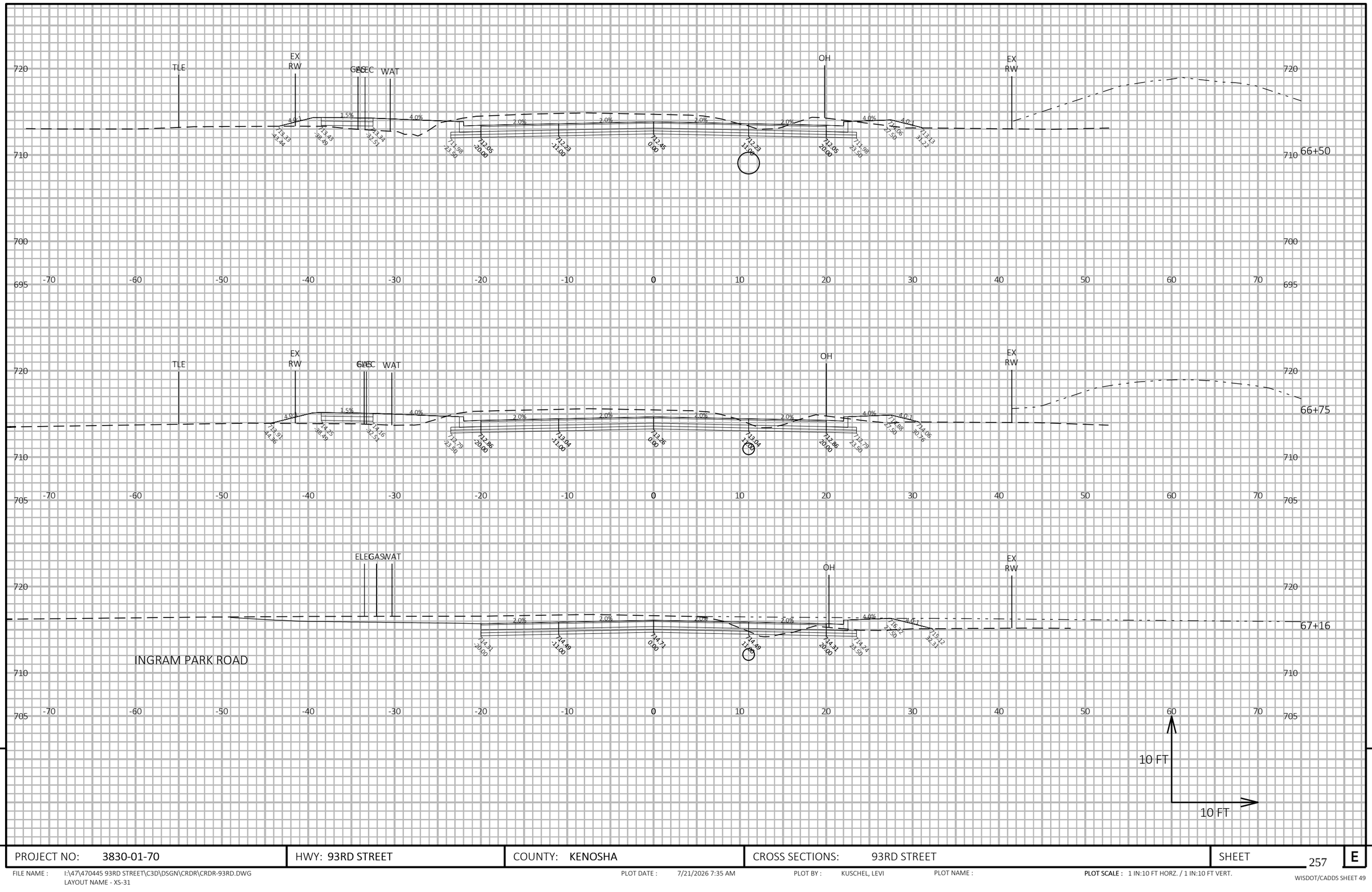
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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 256	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-30

PLOT DATE : 7/21/2026 7:34 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

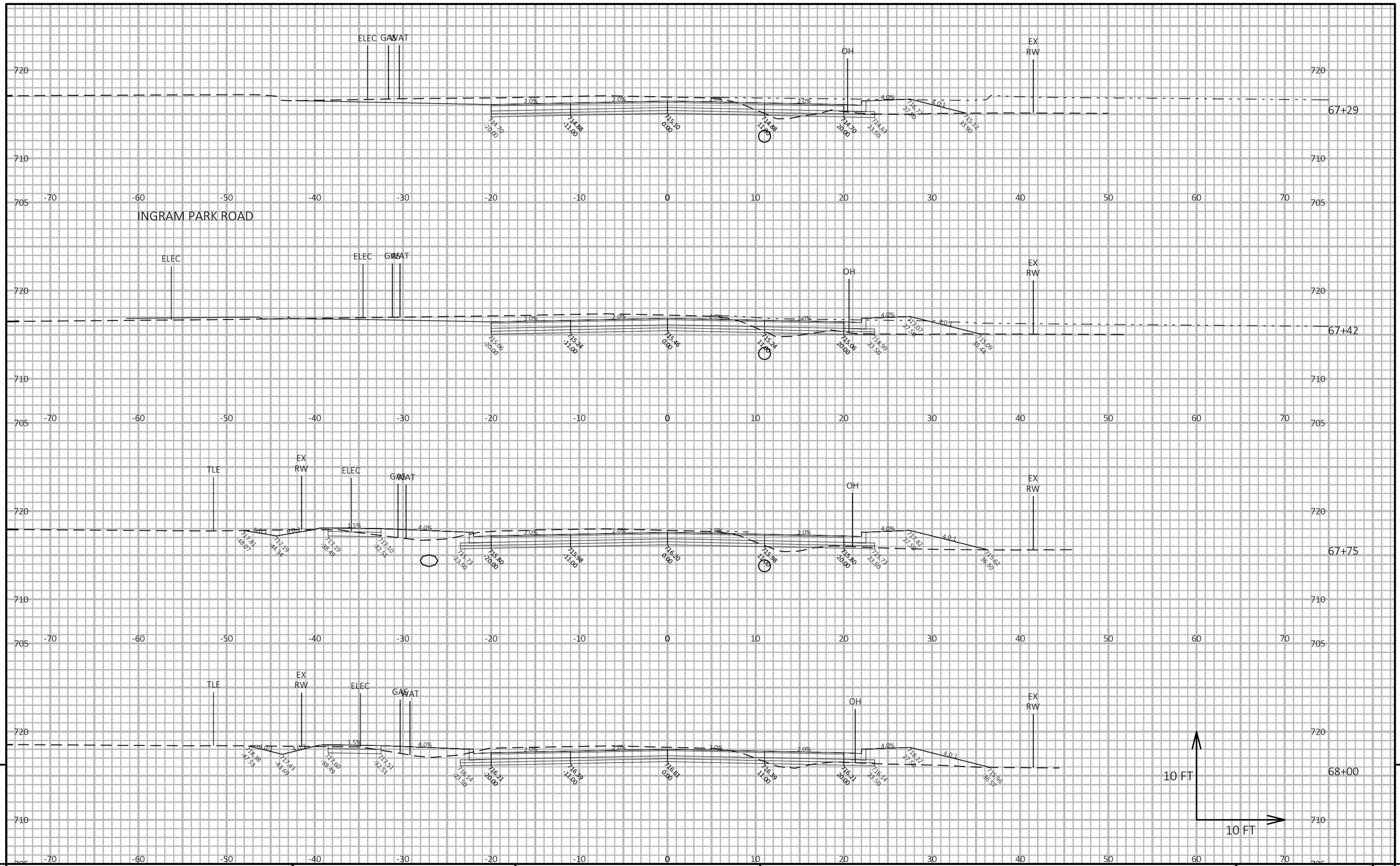
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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 257	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-31

PLOT DATE : 7/21/2026 7:35 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

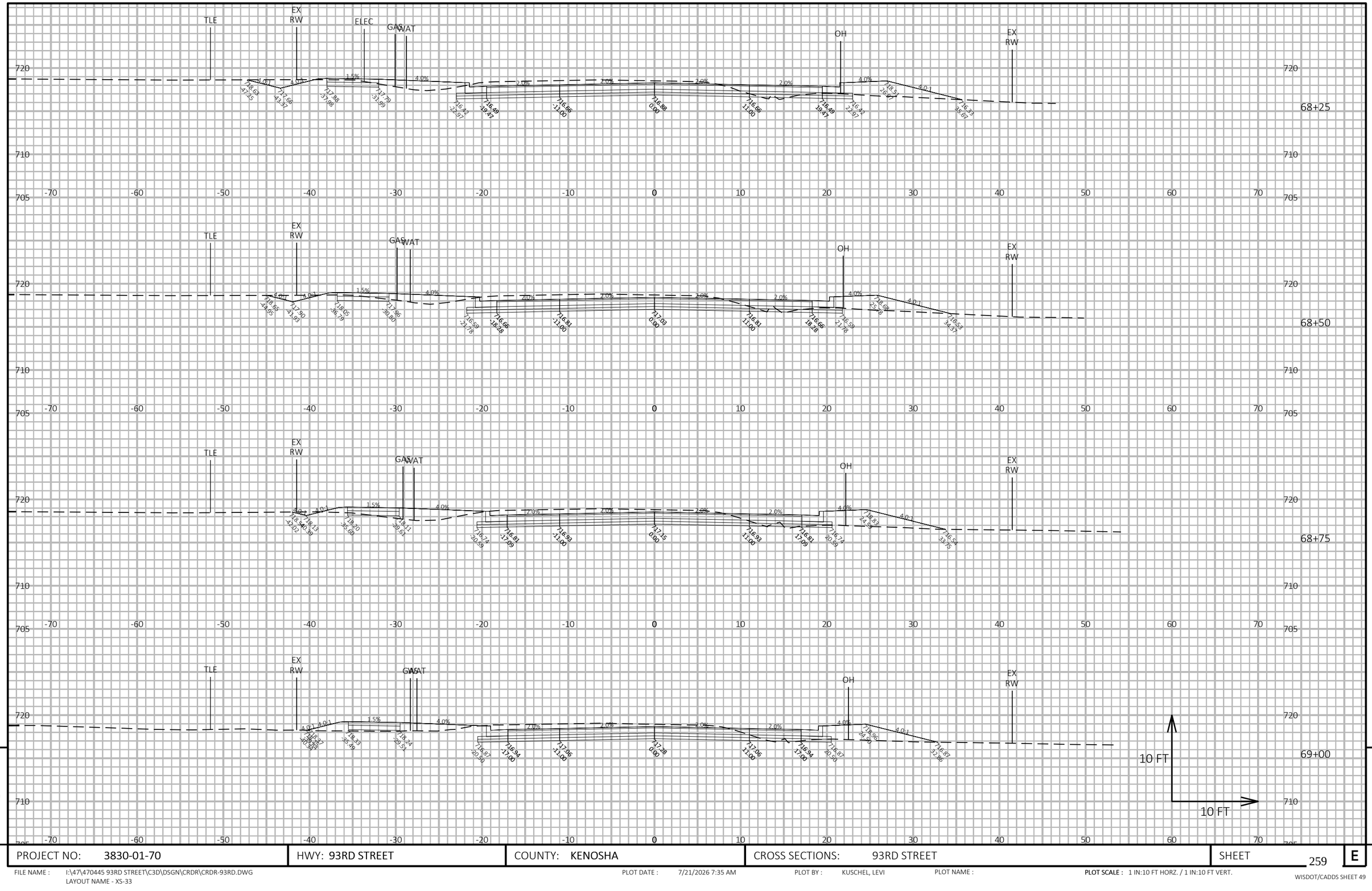
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 258	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-32

PLOT DATE : 7/21/2026 7:34 AM PLOT BY : KUSCHEL, LEVI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

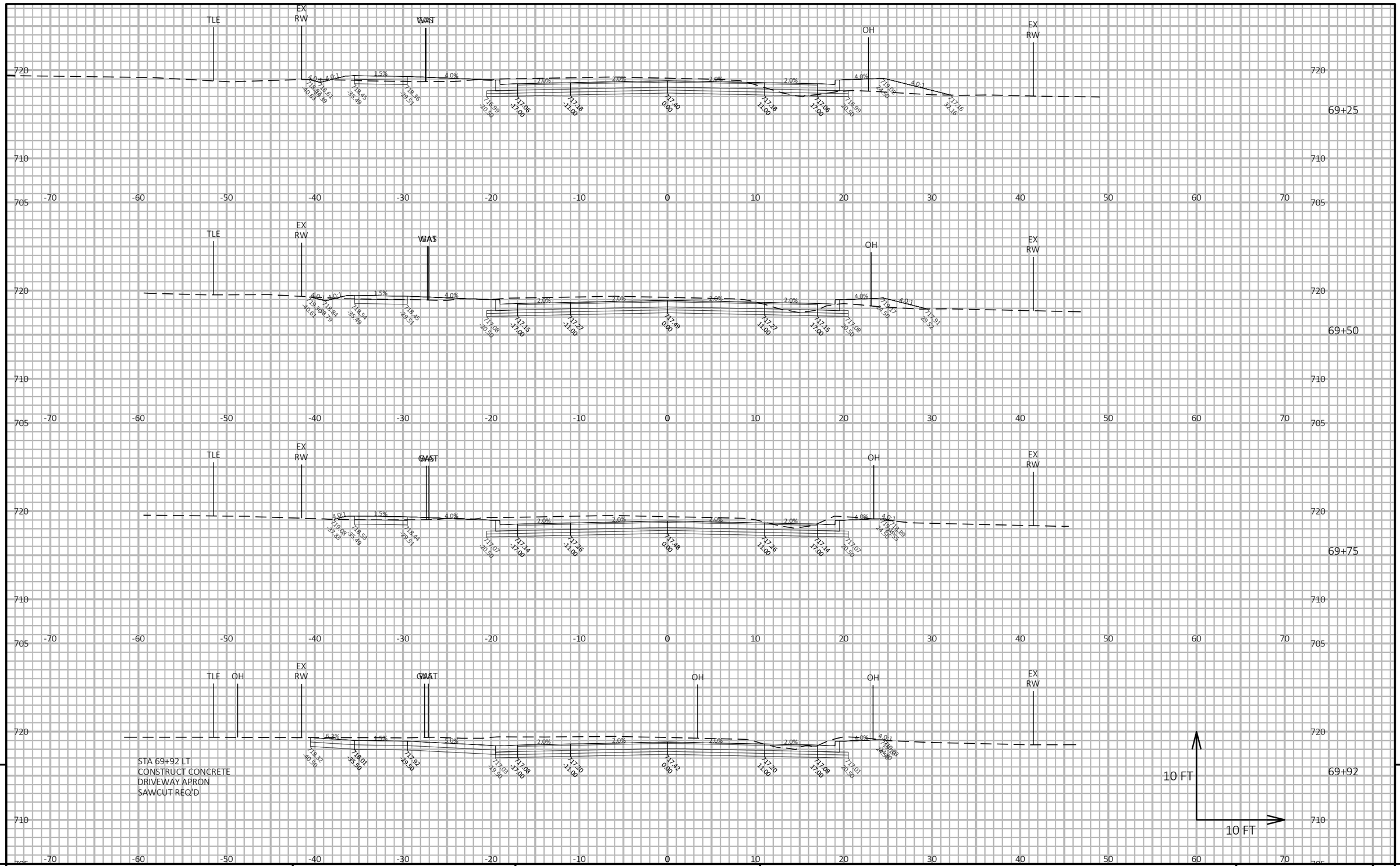
9

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 259	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-33

PLOT DATE : 7/21/2026 7:35 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 260	E

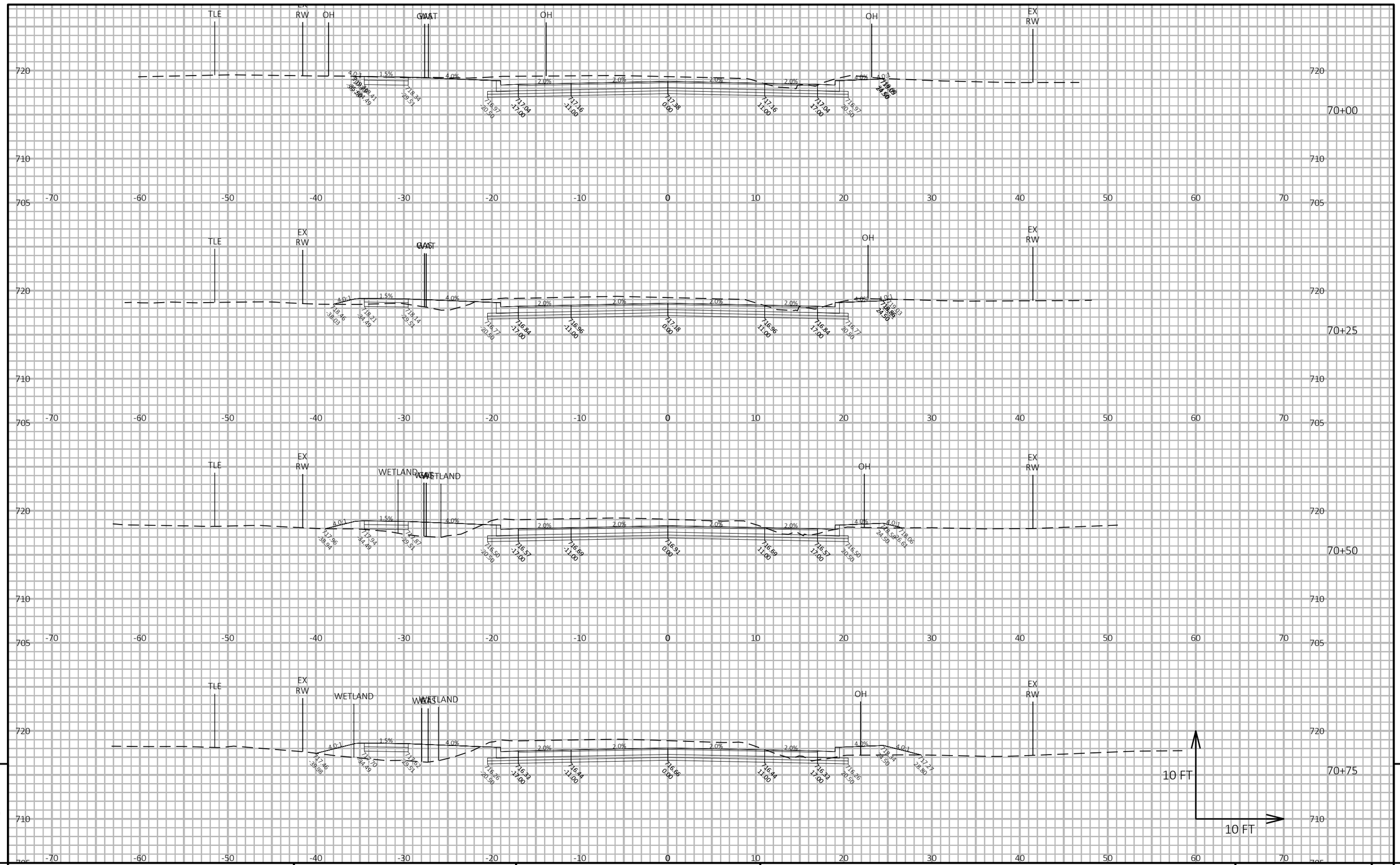
FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-34

PLOT DATE : 7/21/2026 7:36 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

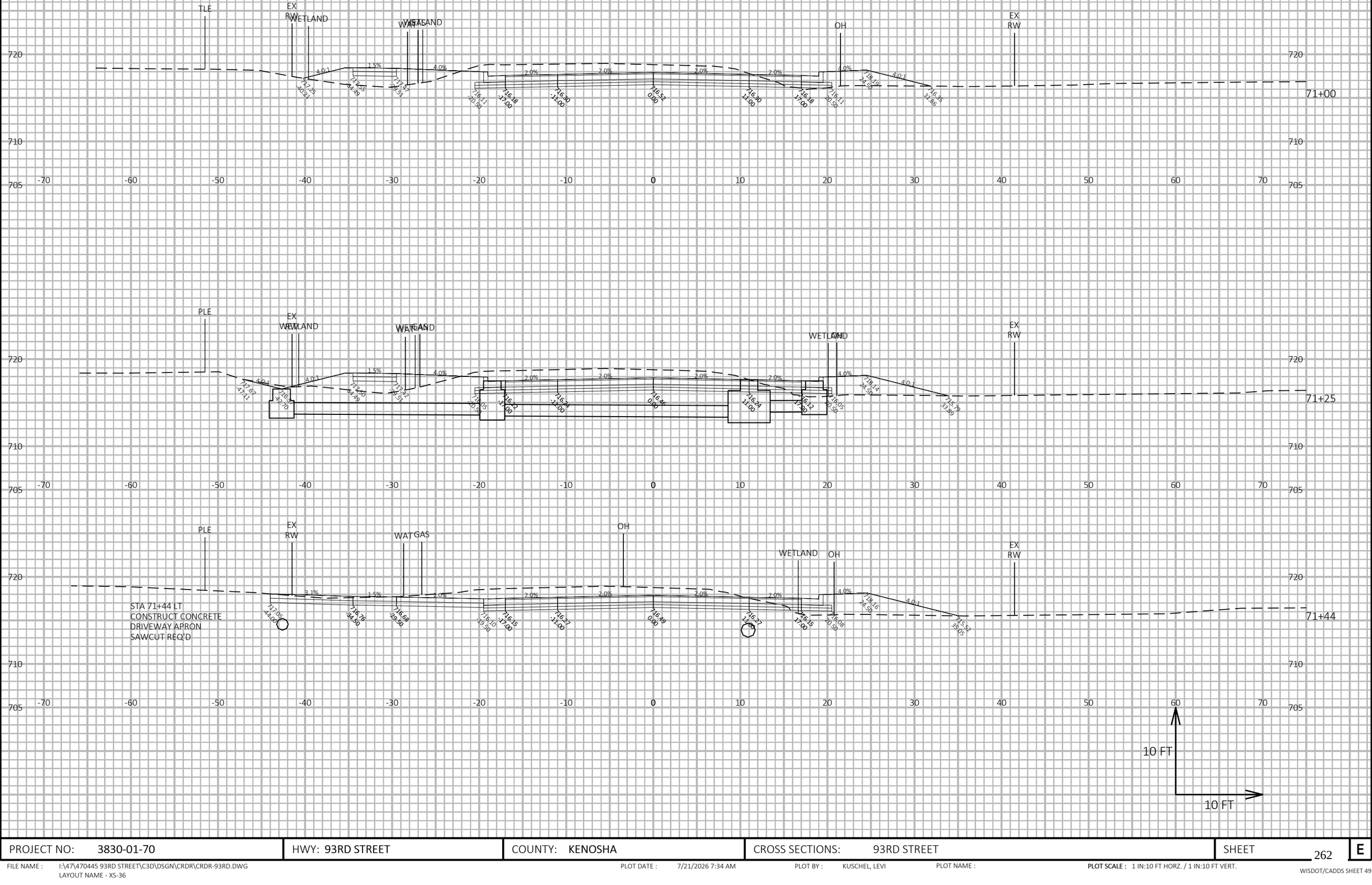


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 261 E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-35

PLOT DATE : 7/21/2026 7:35 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 262	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-36

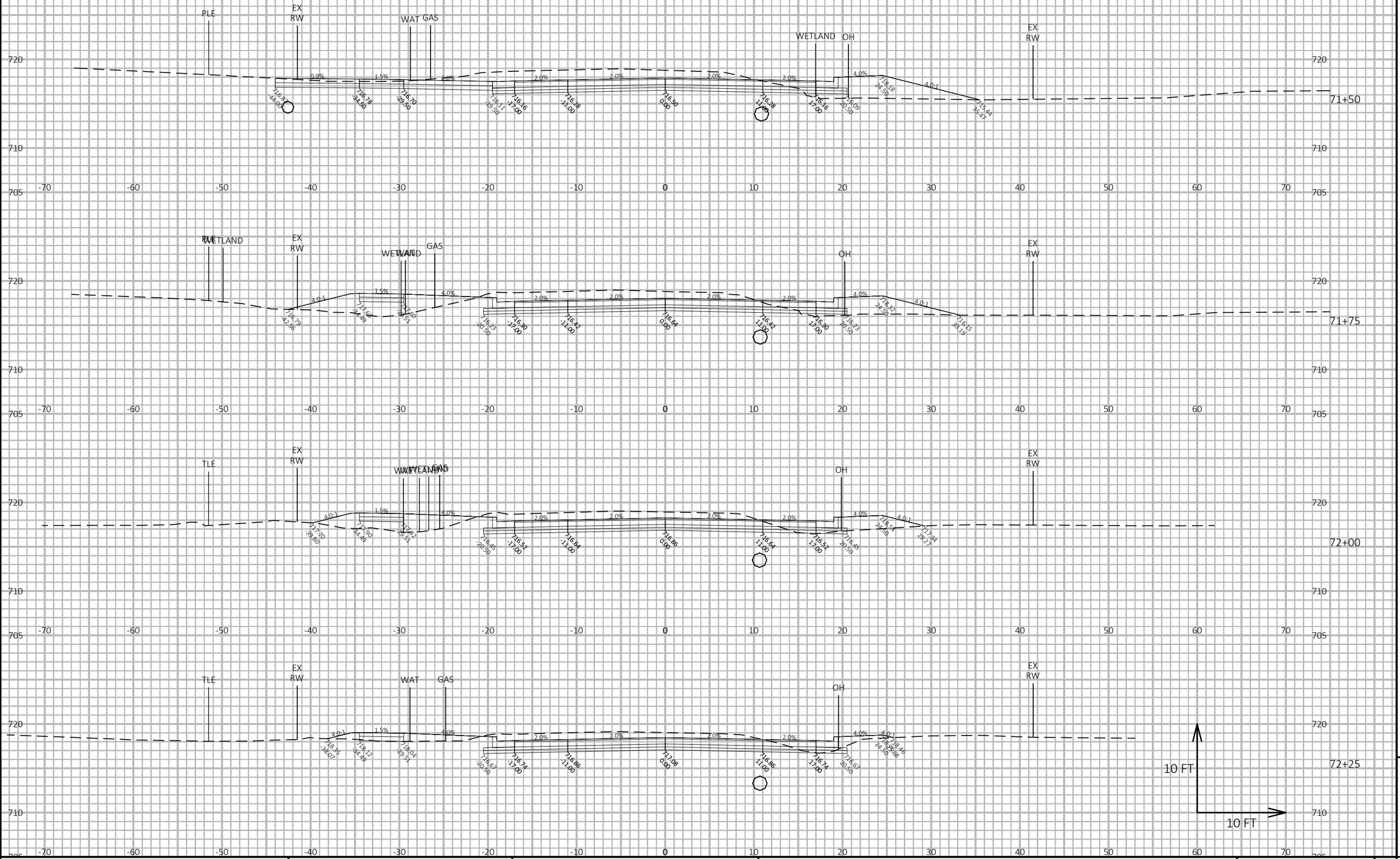
PLOT DATE : 7/21/2026 7:34 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 263	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-37

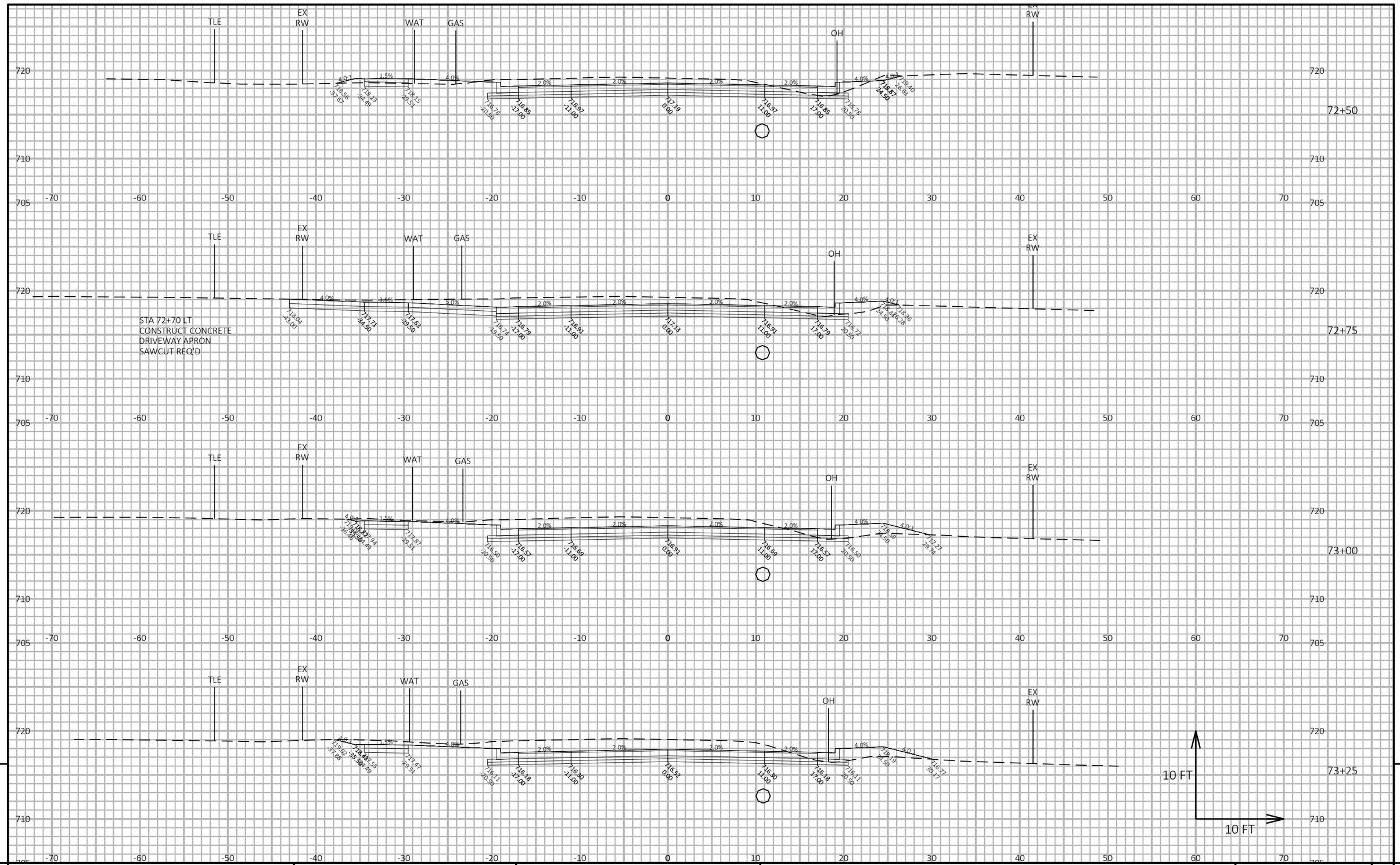
PLOT DATE : 7/21/2026 7:33 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 264	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-38

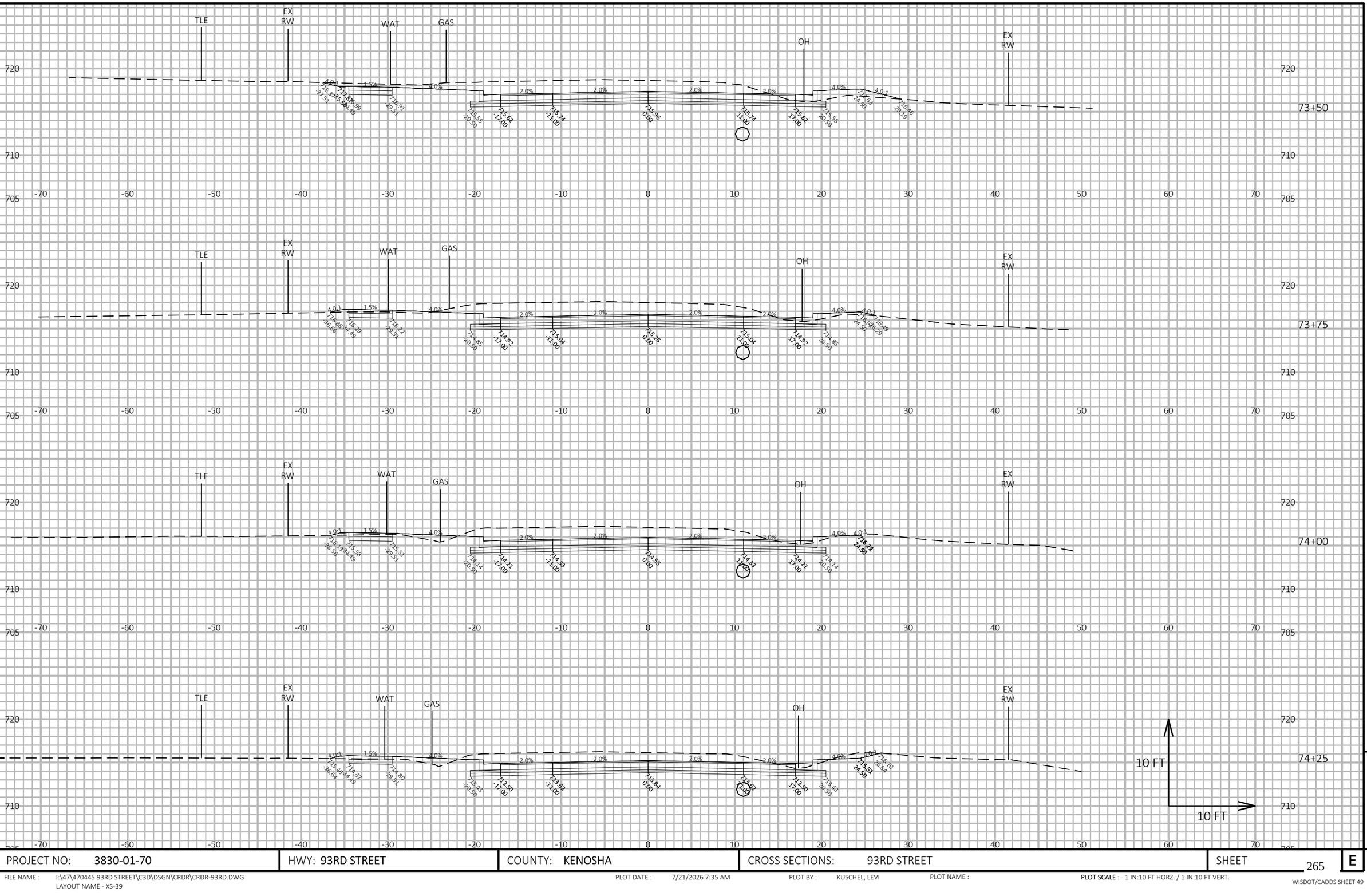
PLOT DATE : 7/21/2026 7:36 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

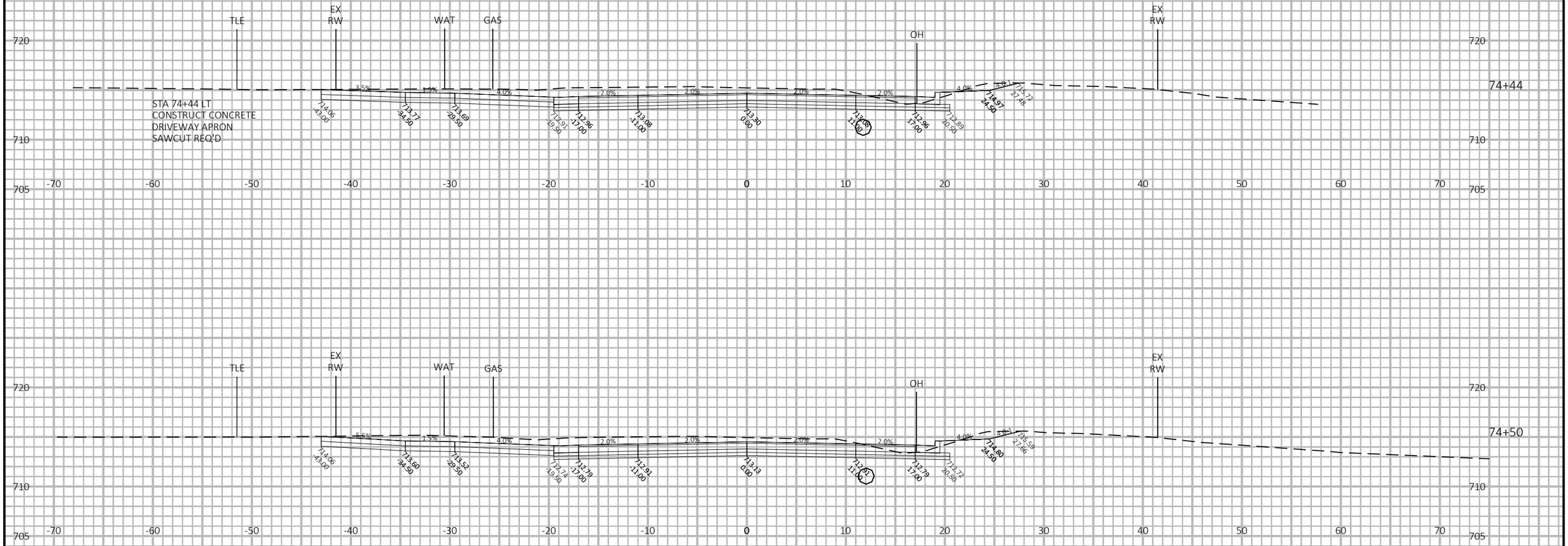
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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 265	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-39

PLOT DATE : 7/21/2026 7:35 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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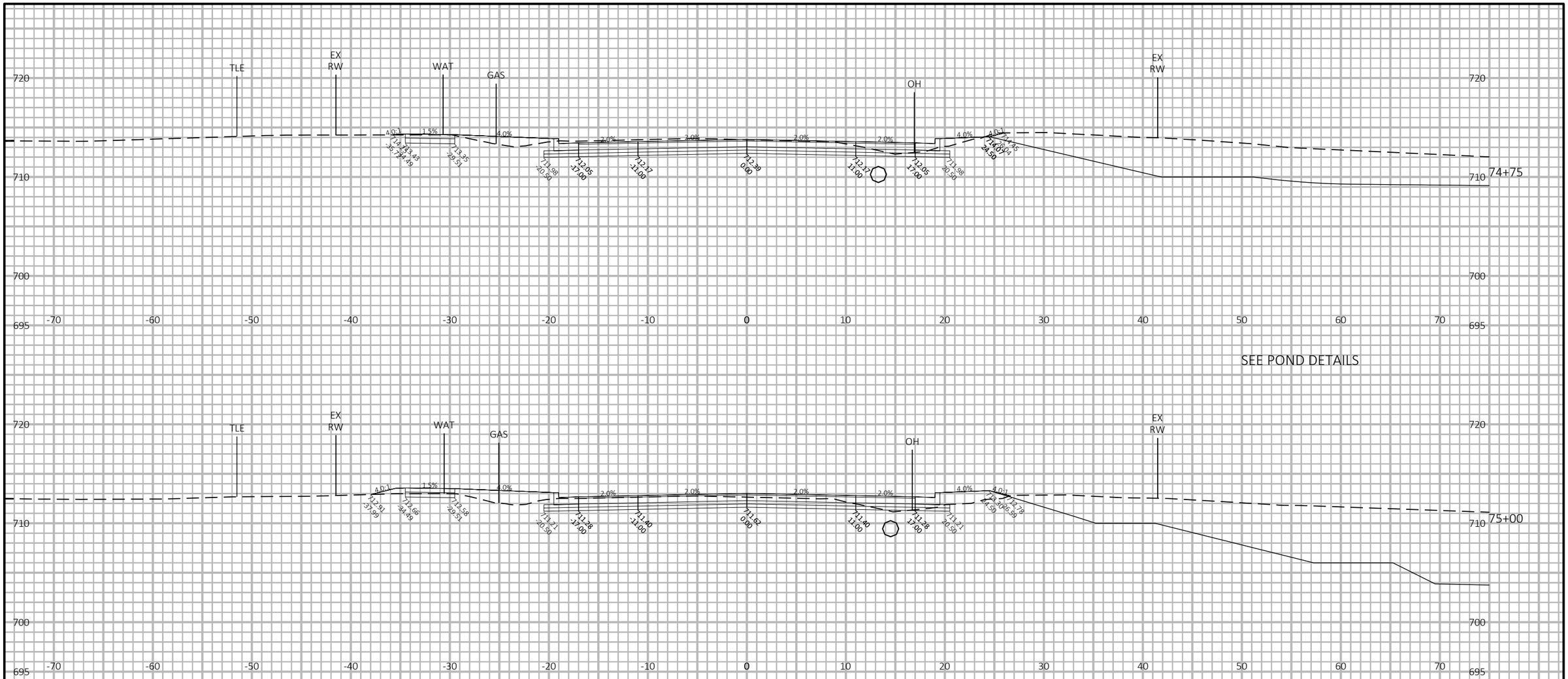
9

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 266	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-40

PLOT DATE : 7/21/2026 7:35 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 267 E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-41

PLOT DATE : 7/21/2026 7:36 AM

PLOT BY : KUSCHEL, LEVI

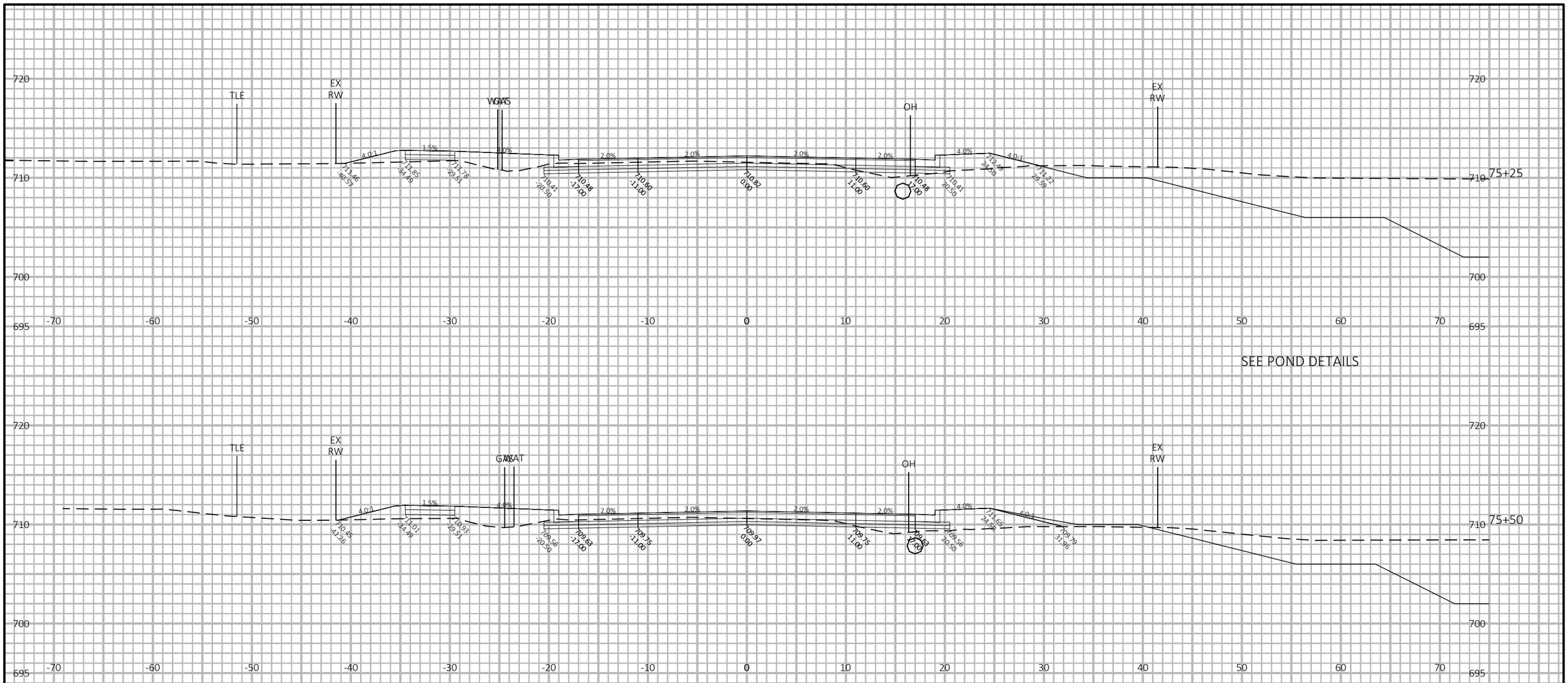
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

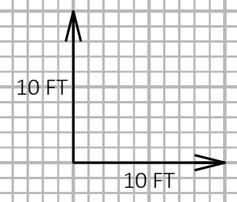
WISDOT/CADDS SHEET 49

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720
710
700
695
TLE
EX RW
WGAT
OH
EX RW
75+25
-70
-60
-50
-40
-30
-20
-10
0
10
20
30
40
50
60
70
4.0%
1.5%
2.0%
711.46 -40.57
711.85 -34.49
711.78 -29.51
710.41 -20.50
710.48 -17.00
710.60 -11.00
710.82 0.00
710.48 11.00
710.41 20.50
711.05 24.29
711.22 29.59

SEE POND DETAILS



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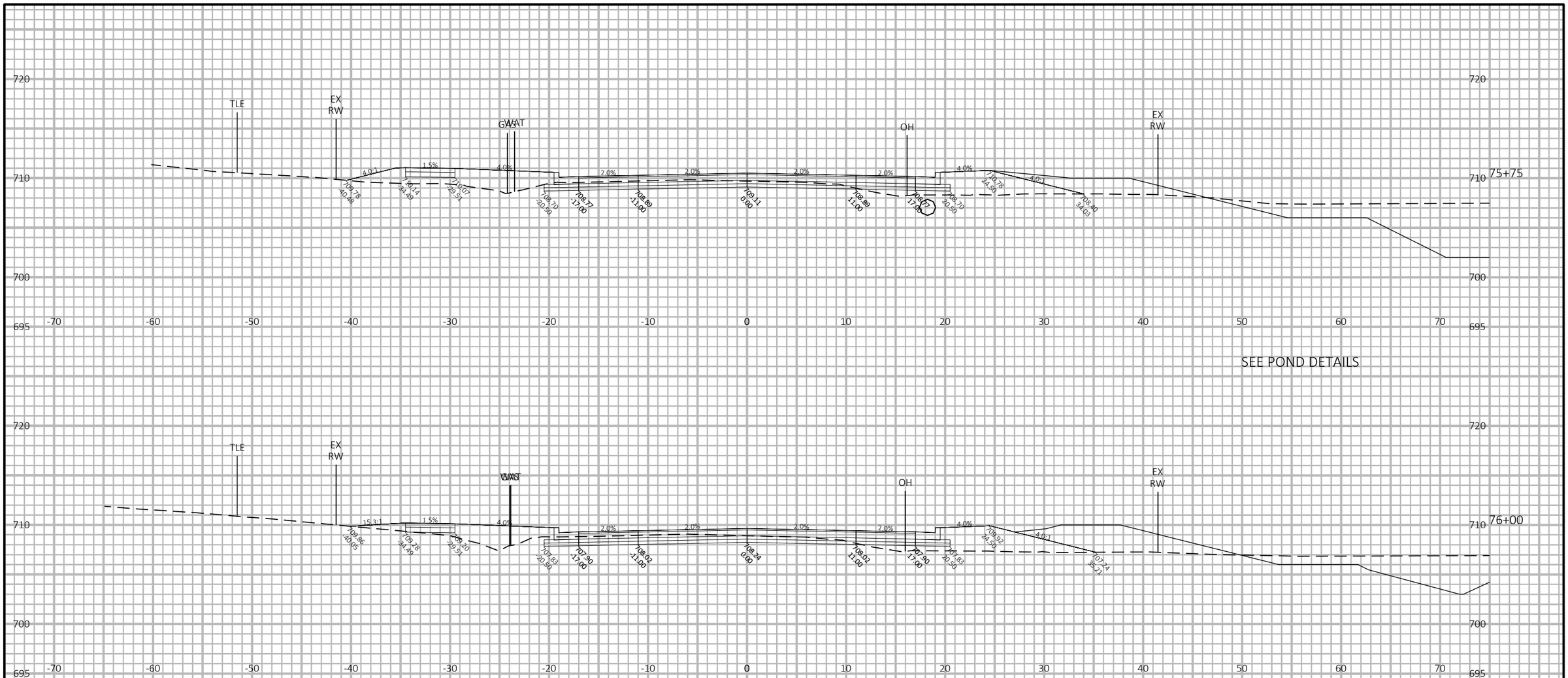
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 268	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-42

PLOT DATE : 7/21/2026 7:36 AM PLOT BY : KUSCHEL, LEVI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 269	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-43

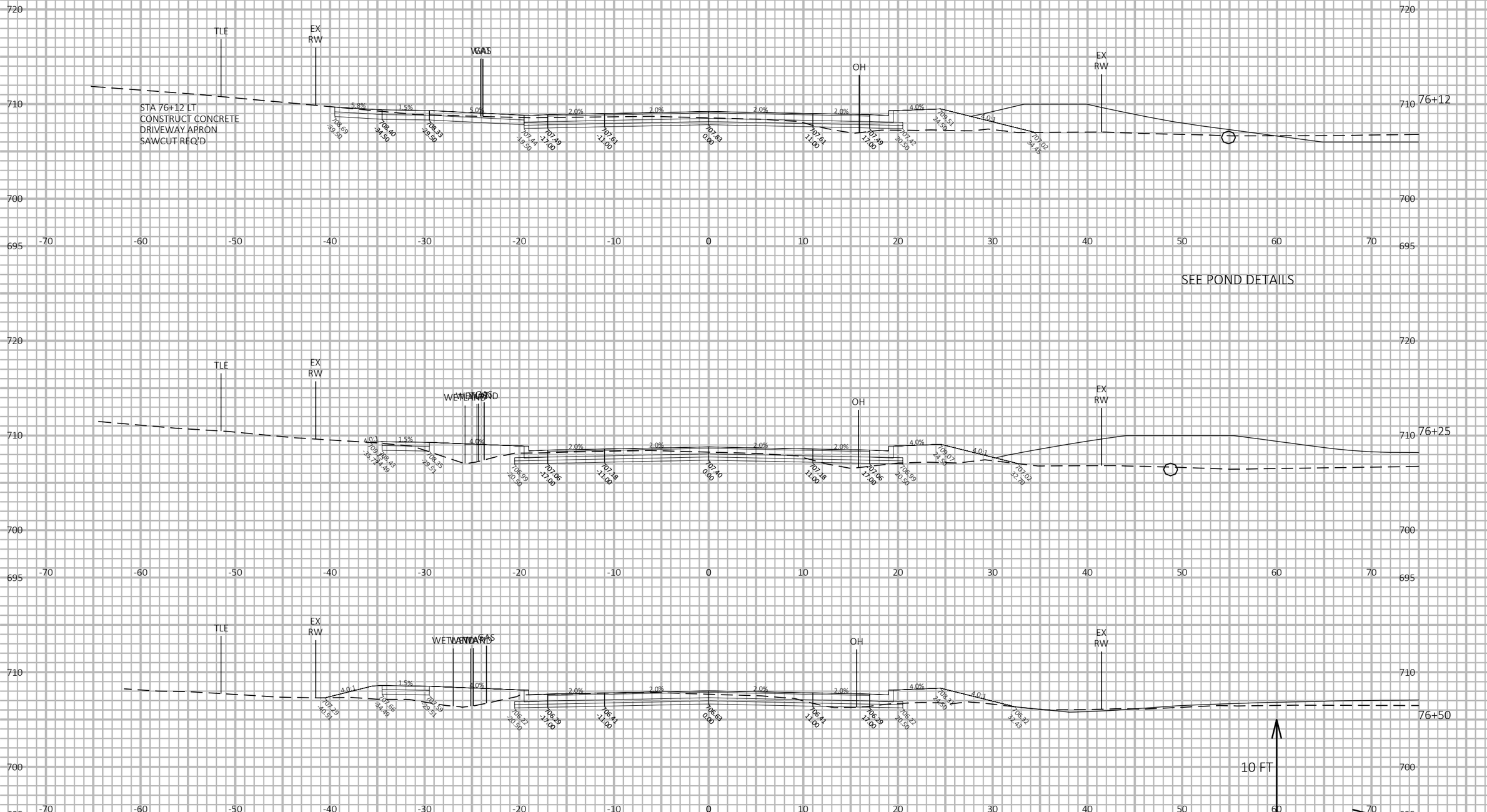
PLOT DATE : 7/21/2026 7:33 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 270 E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-44

PLOT DATE : 7/21/2026 7:33 AM

PLOT BY : KUSCHEL, LEVI

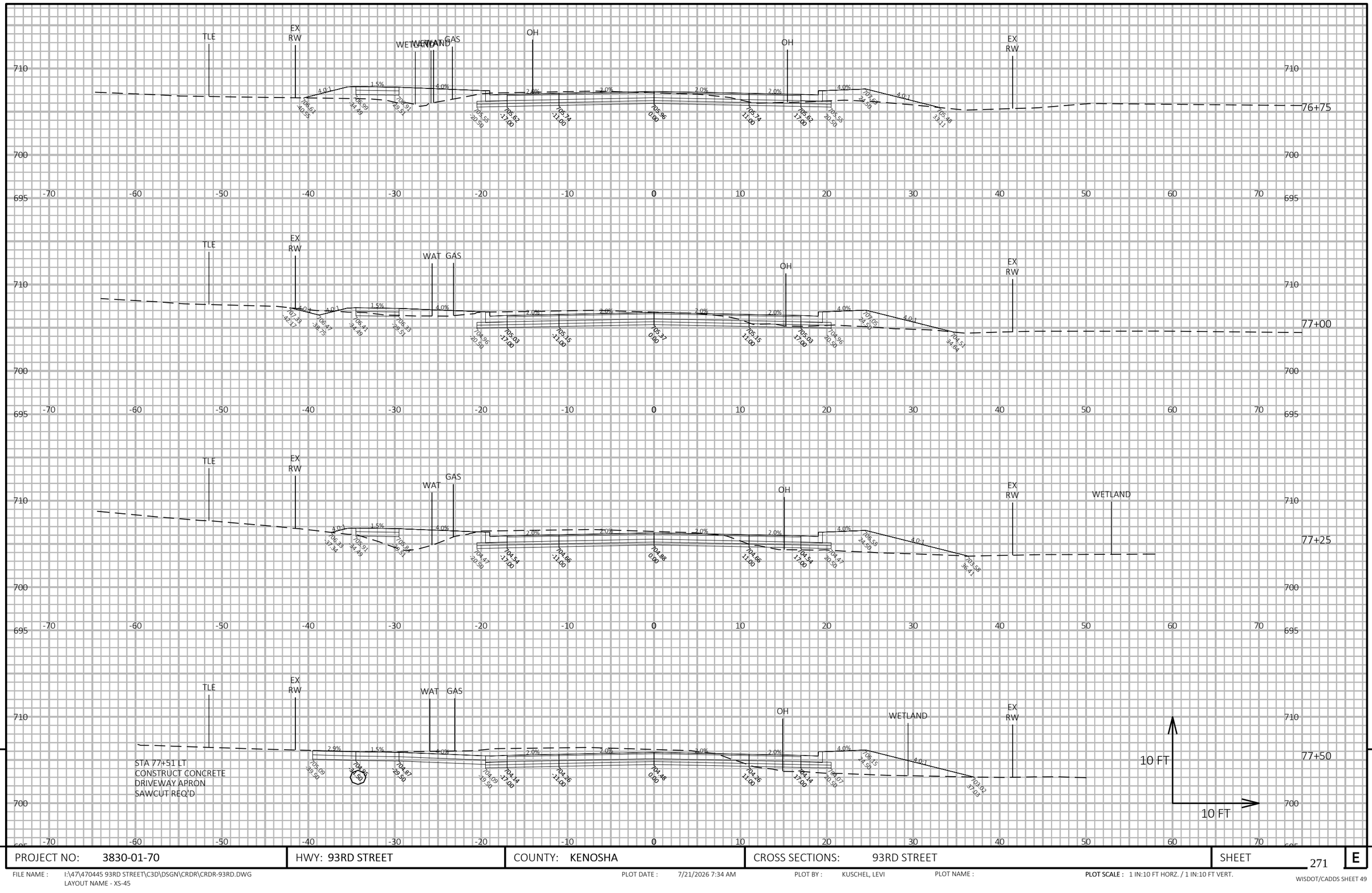
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 271	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-45

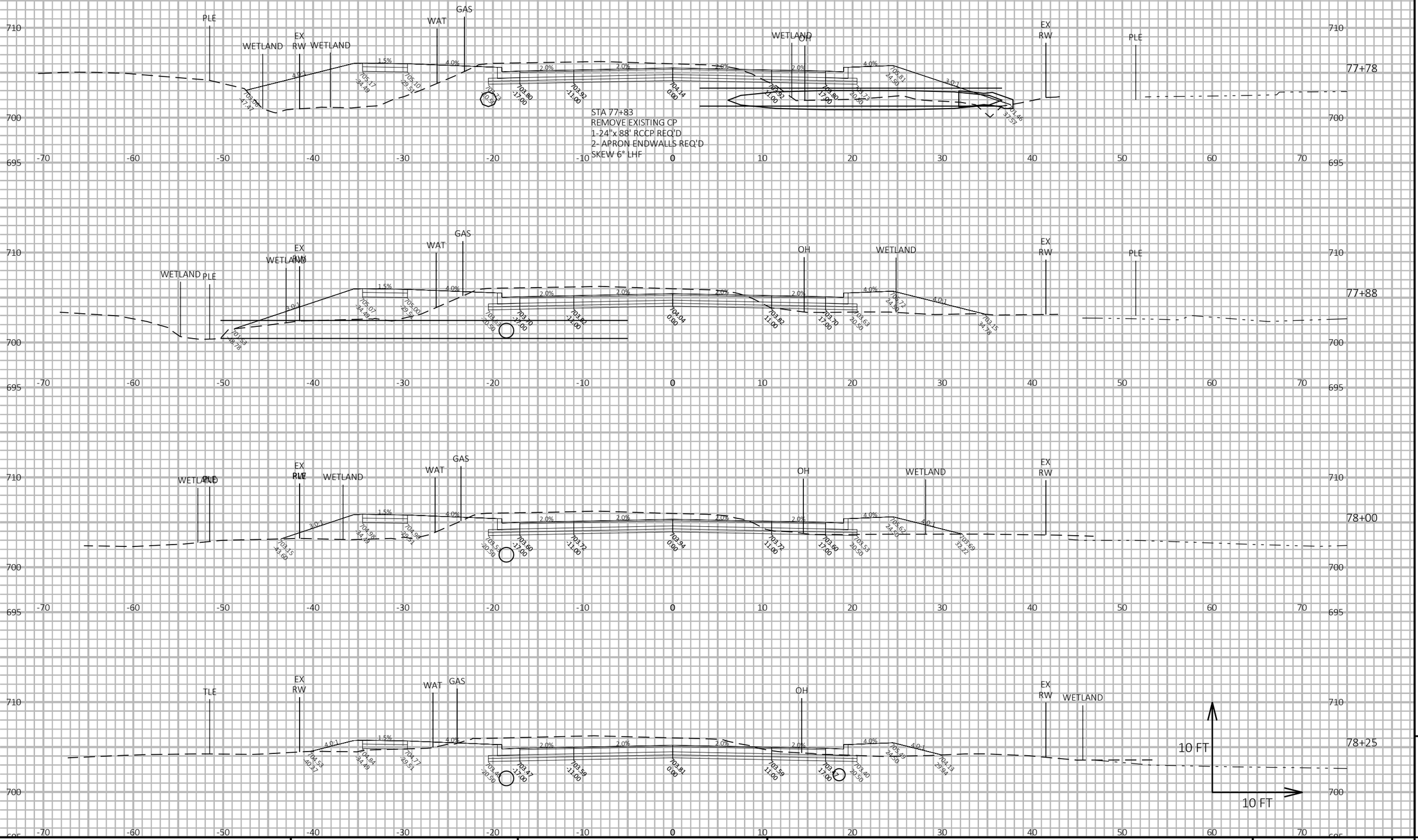
PLOT DATE : 7/21/2026 7:34 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

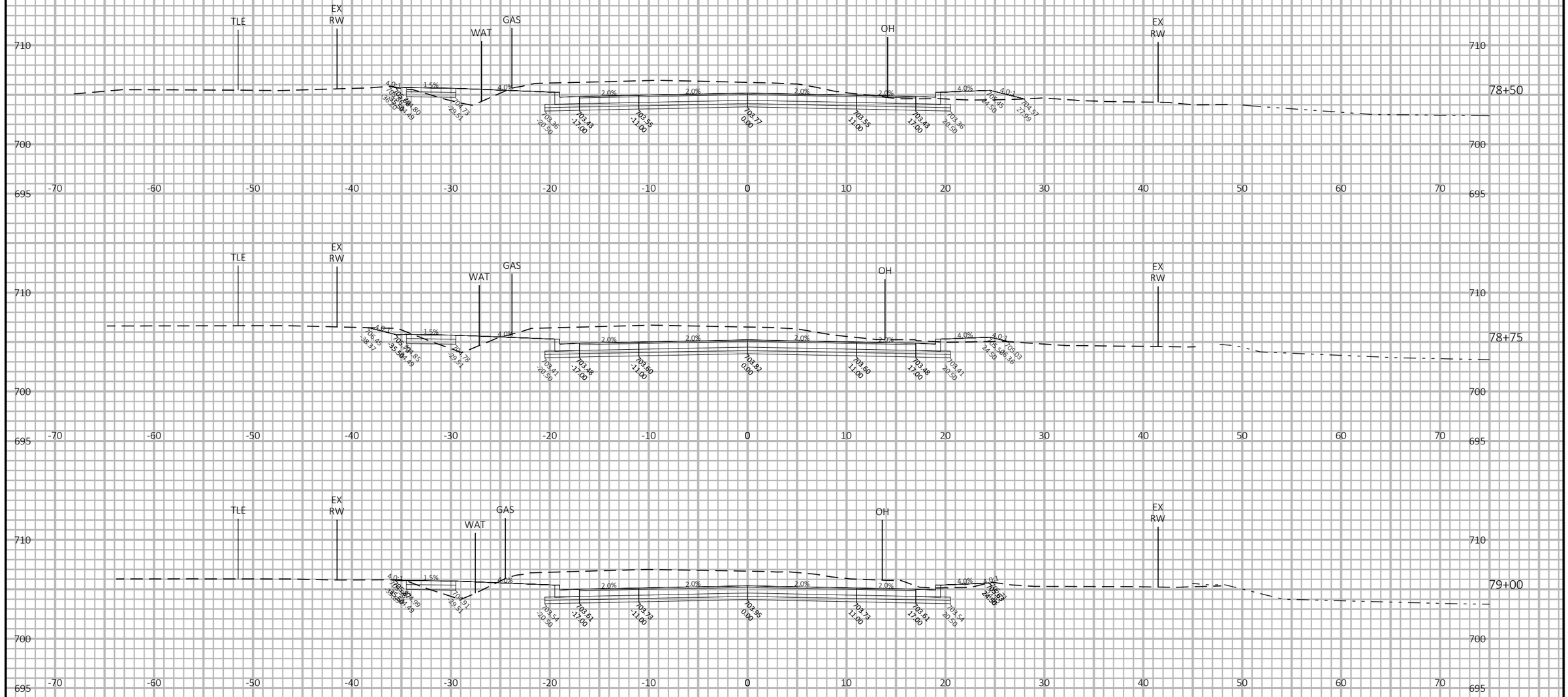


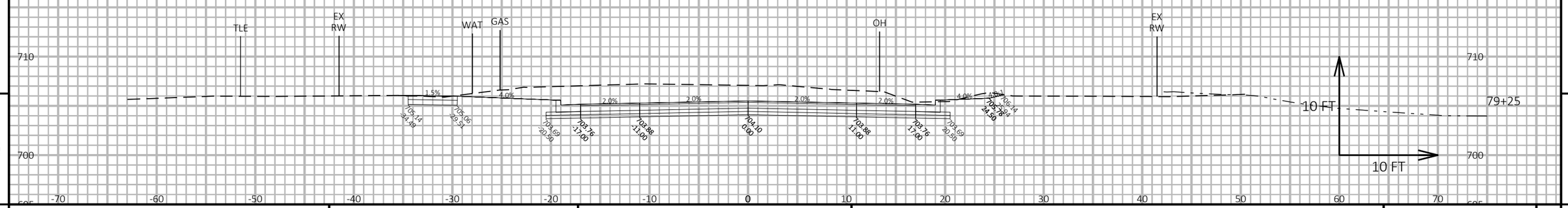
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 272 E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-46

PLOT DATE : 7/21/2026 7:32 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 273	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-47

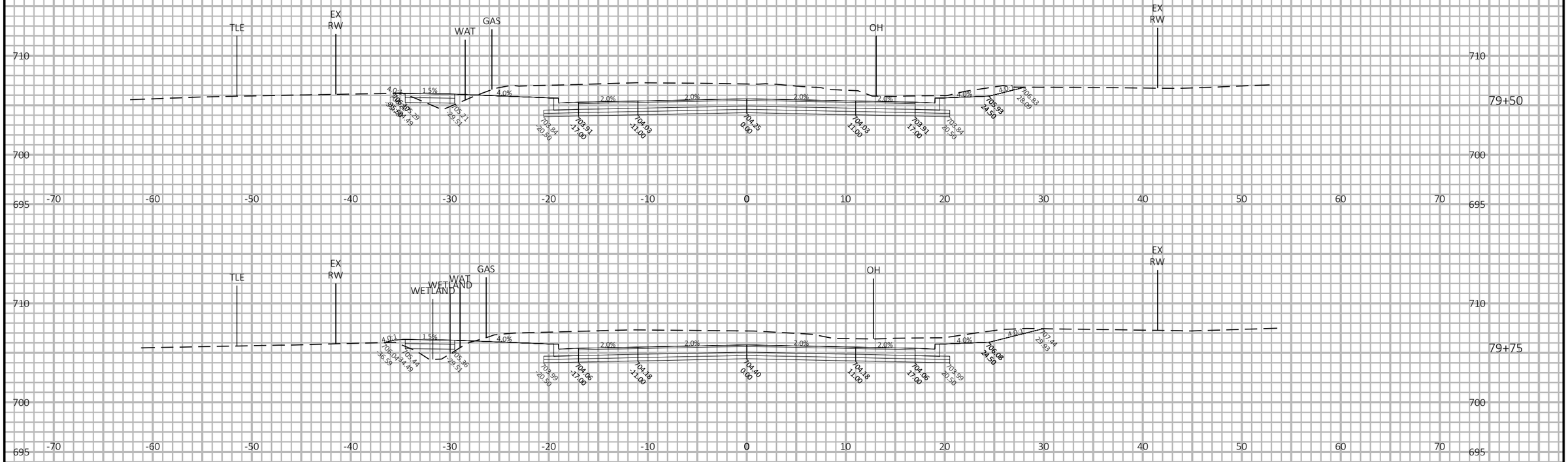
PLOT DATE : 7/21/2026 7:35 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



STA 79+99 LT
CONSTRUCT CONCRETE
DRIVEWAY APRON
SAWCUT REQ'D

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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 274	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-48

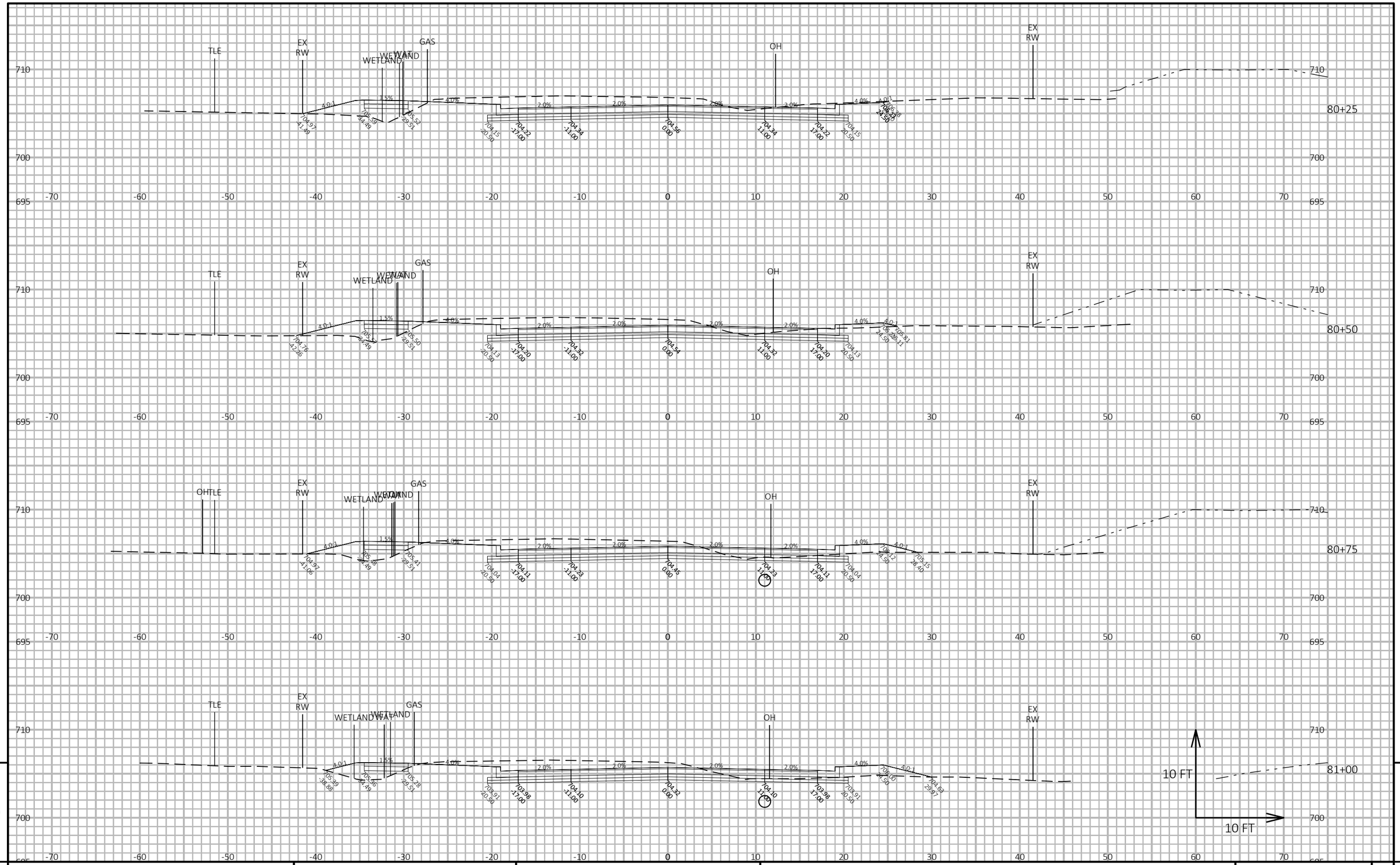
PLOT DATE : 7/21/2026 7:34 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 275	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-49

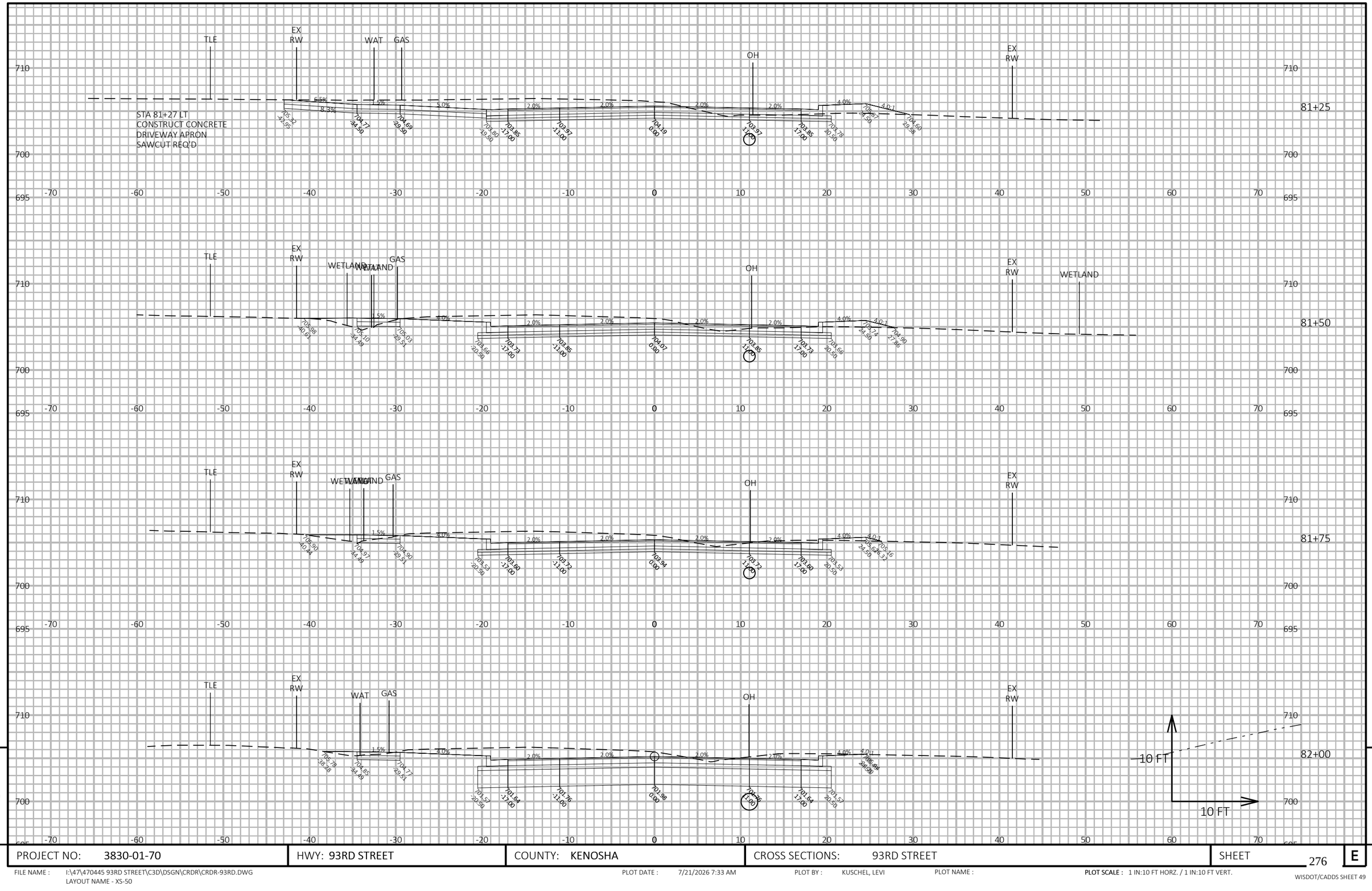
PLOT DATE : 7/21/2026 7:33 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 276	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-50

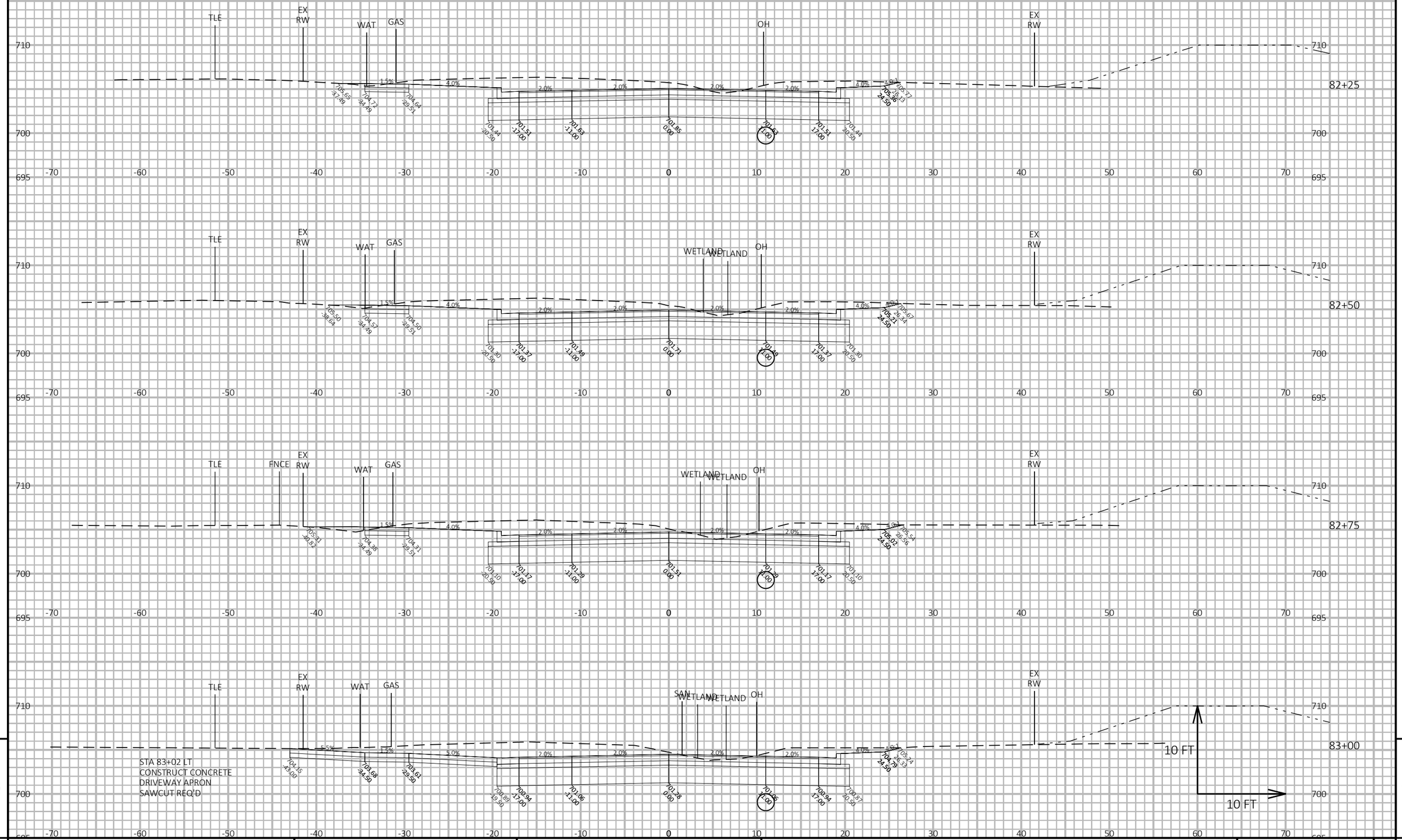
PLOT DATE : 7/21/2026 7:33 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: 93RD STREET	SHEET 277	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD.DWG
LAYOUT NAME - XS-51

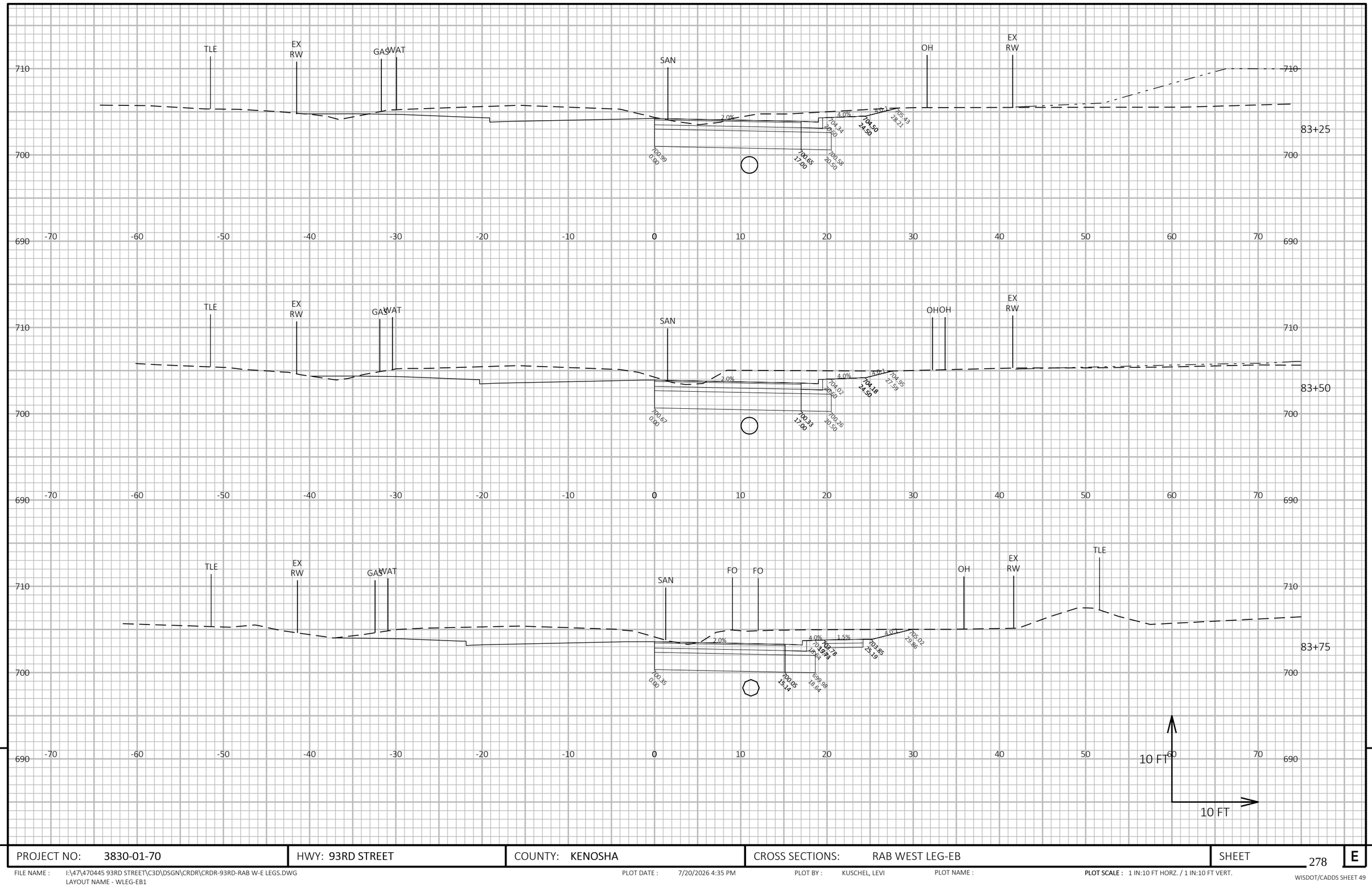
PLOT DATE : 7/21/2026 7:35 AM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

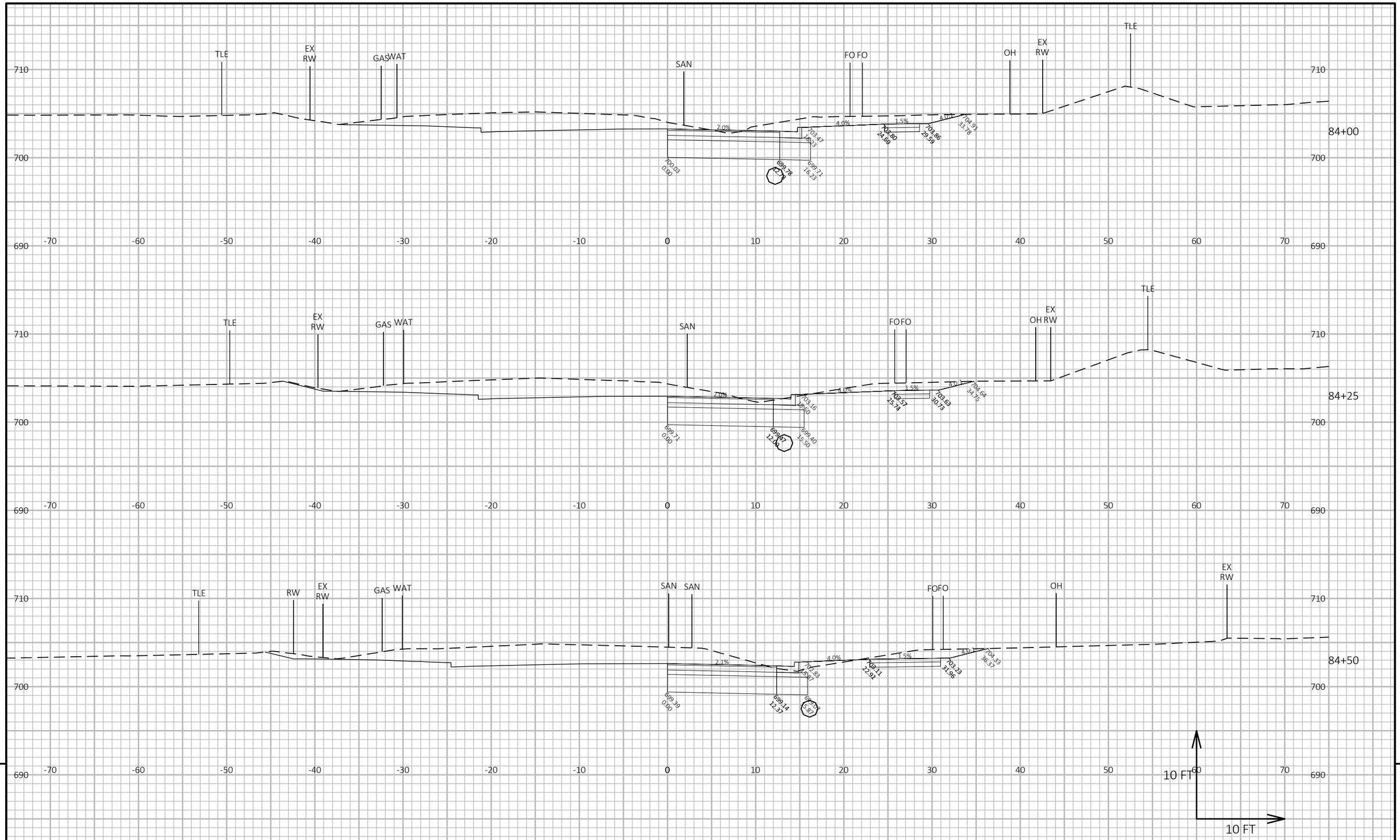


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB WEST LEG-EB	SHEET 278	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB W-E LEGS.DWG
LAYOUT NAME - WLEG-EB1

PLOT DATE : 7/20/2026 4:35 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB WEST LEG-EB	SHEET 279	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB W-E LEGS.DWG
LAYOUT NAME - WLEG-EB2

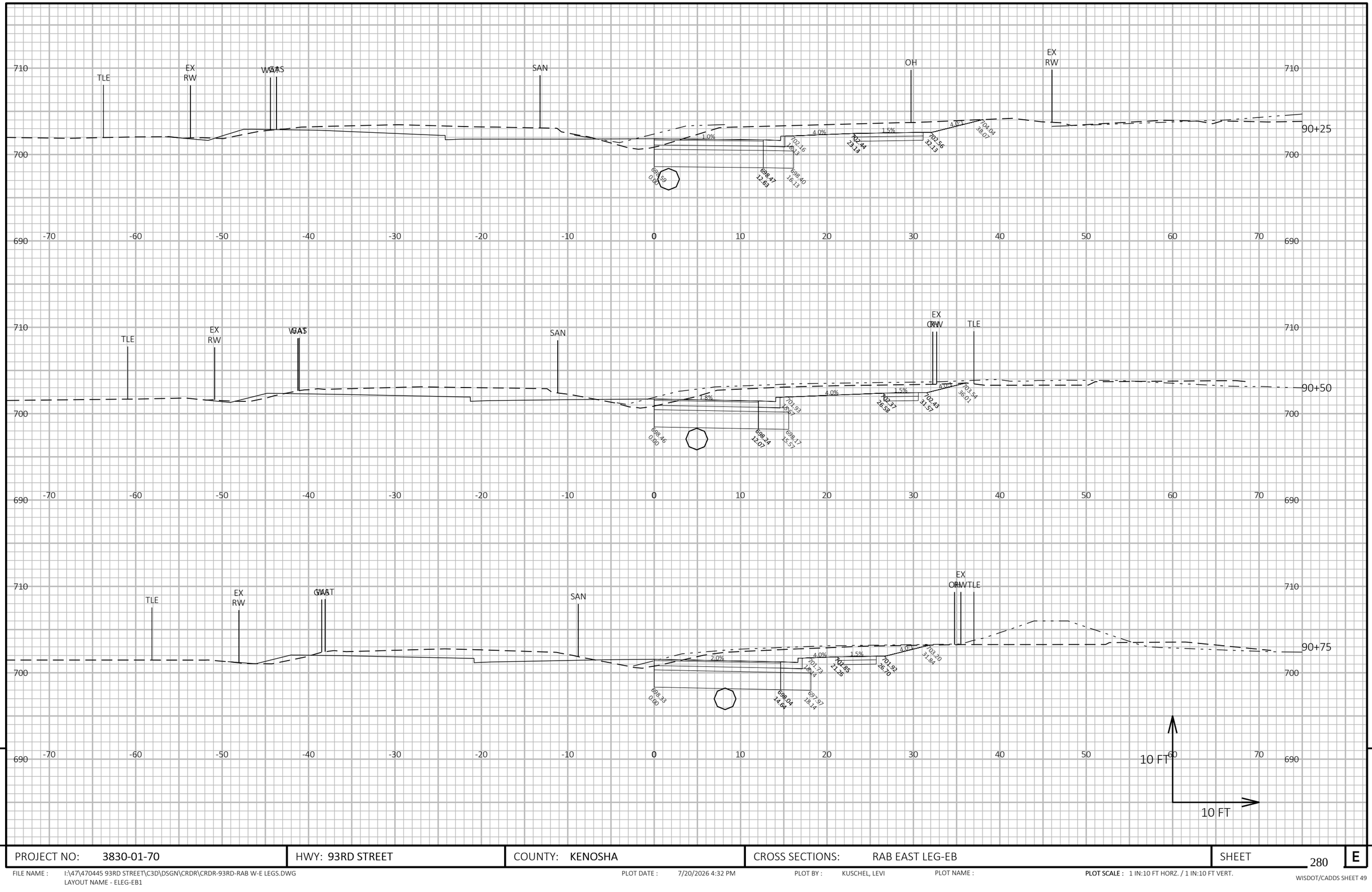
PLOT DATE : 7/20/2026 4:33 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB EAST LEG-EB	SHEET 280	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB W-E LEGS.DWG
LAYOUT NAME - ELEG-EB1

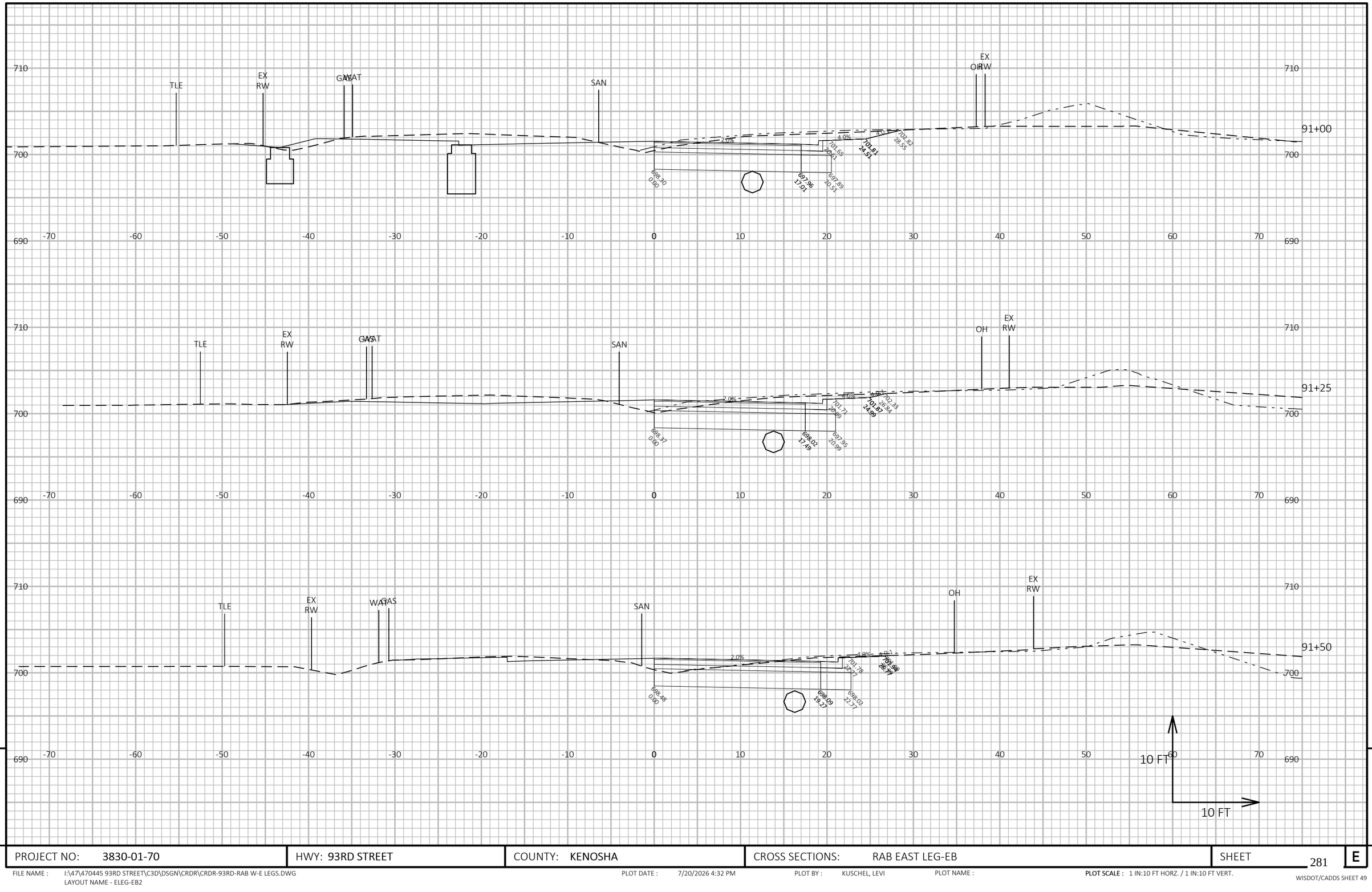
PLOT DATE : 7/20/2026 4:32 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB EAST LEG-EB	SHEET 281	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB W-E LEGS.DWG
LAYOUT NAME - ELEG-EB2

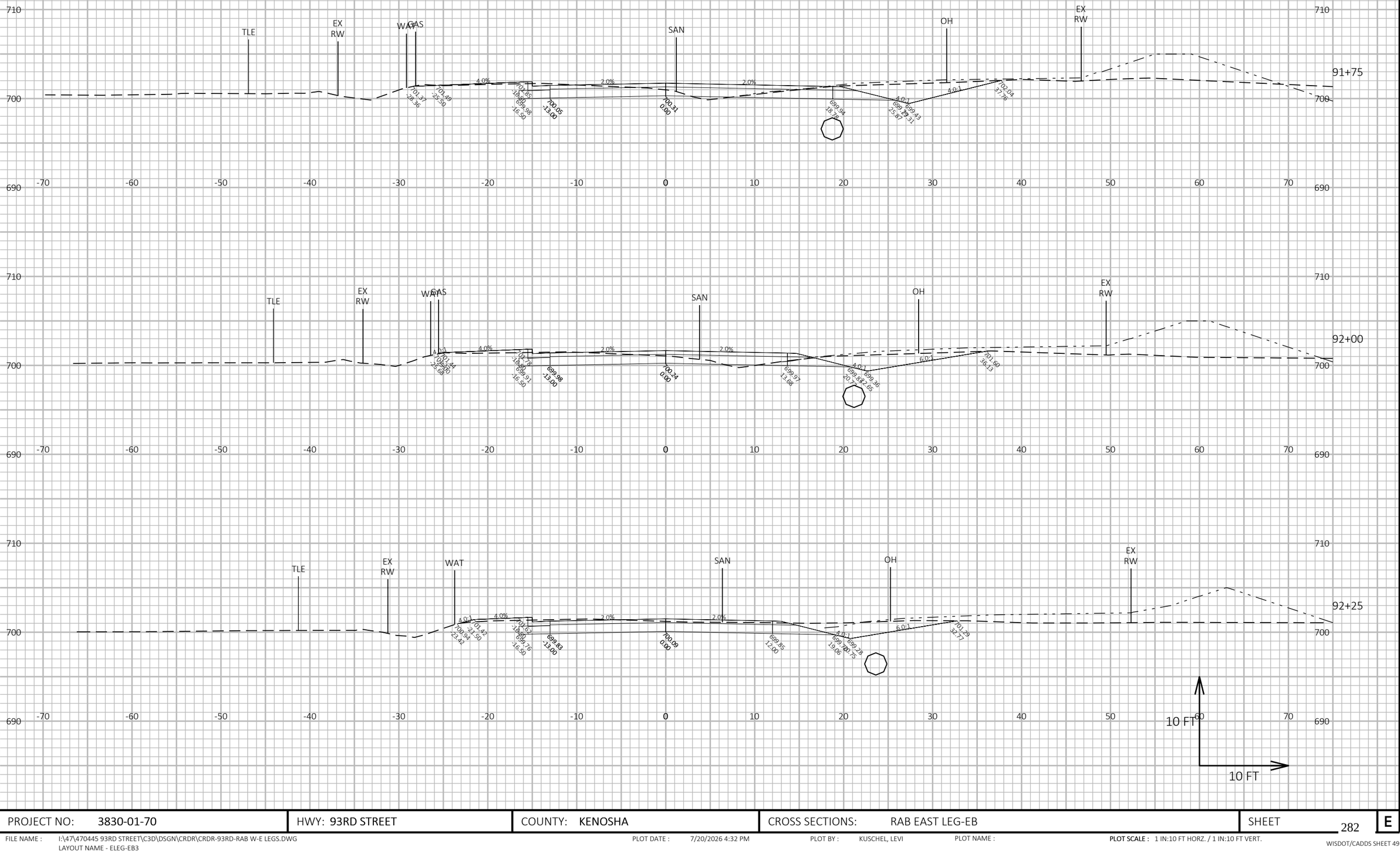
PLOT DATE : 7/20/2026 4:32 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB EAST LEG-EB	SHEET 282	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB W-E LEGS.DWG
LAYOUT NAME - ELEG-EB3

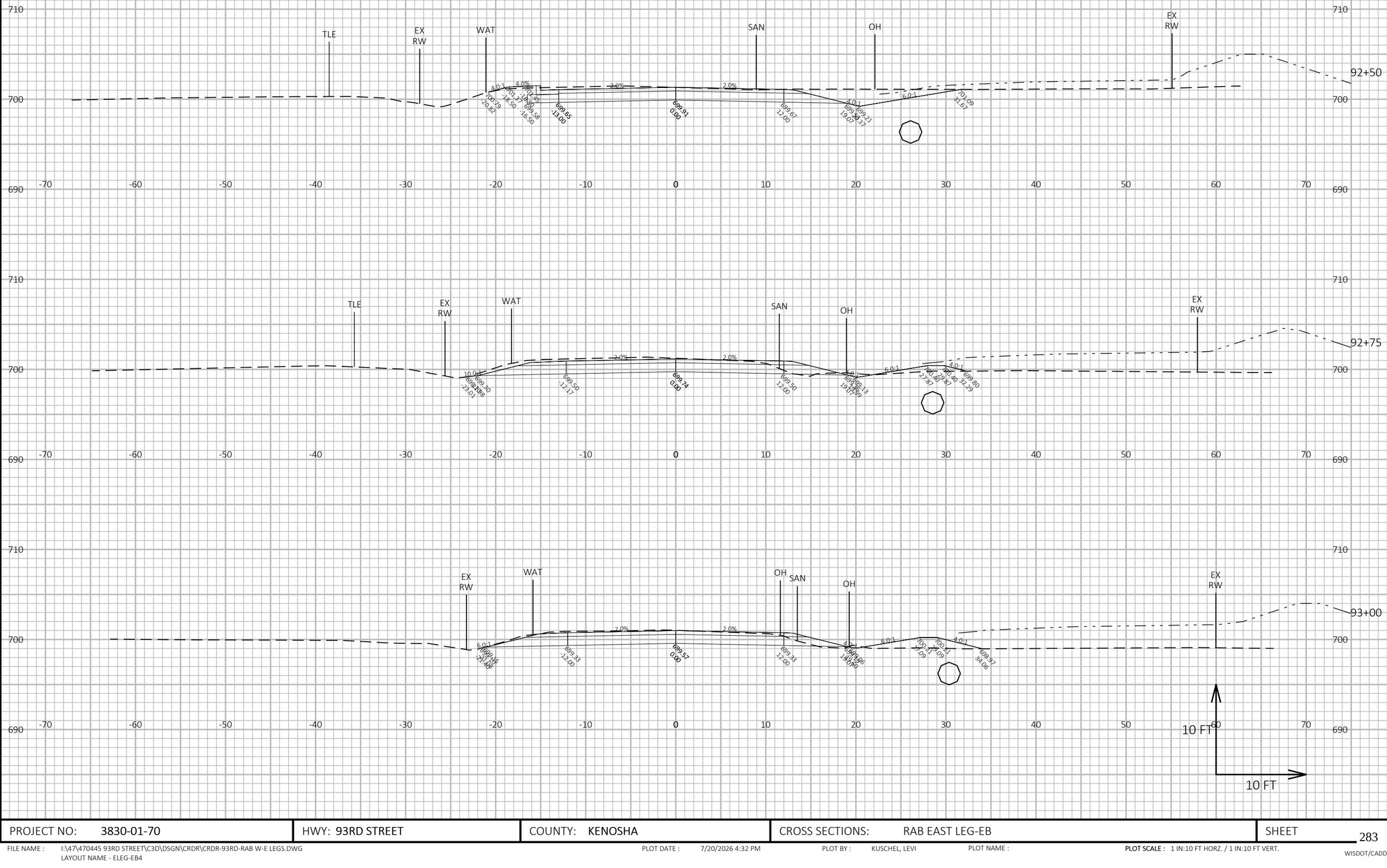
PLOT DATE : 7/20/2026 4:32 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB EAST LEG-EB	SHEET 283 E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB W-E LEGS.DWG
LAYOUT NAME - ELEG-EB4

PLOT DATE : 7/20/2026 4:32 PM

PLOT BY : KUSCHEL, LEVI

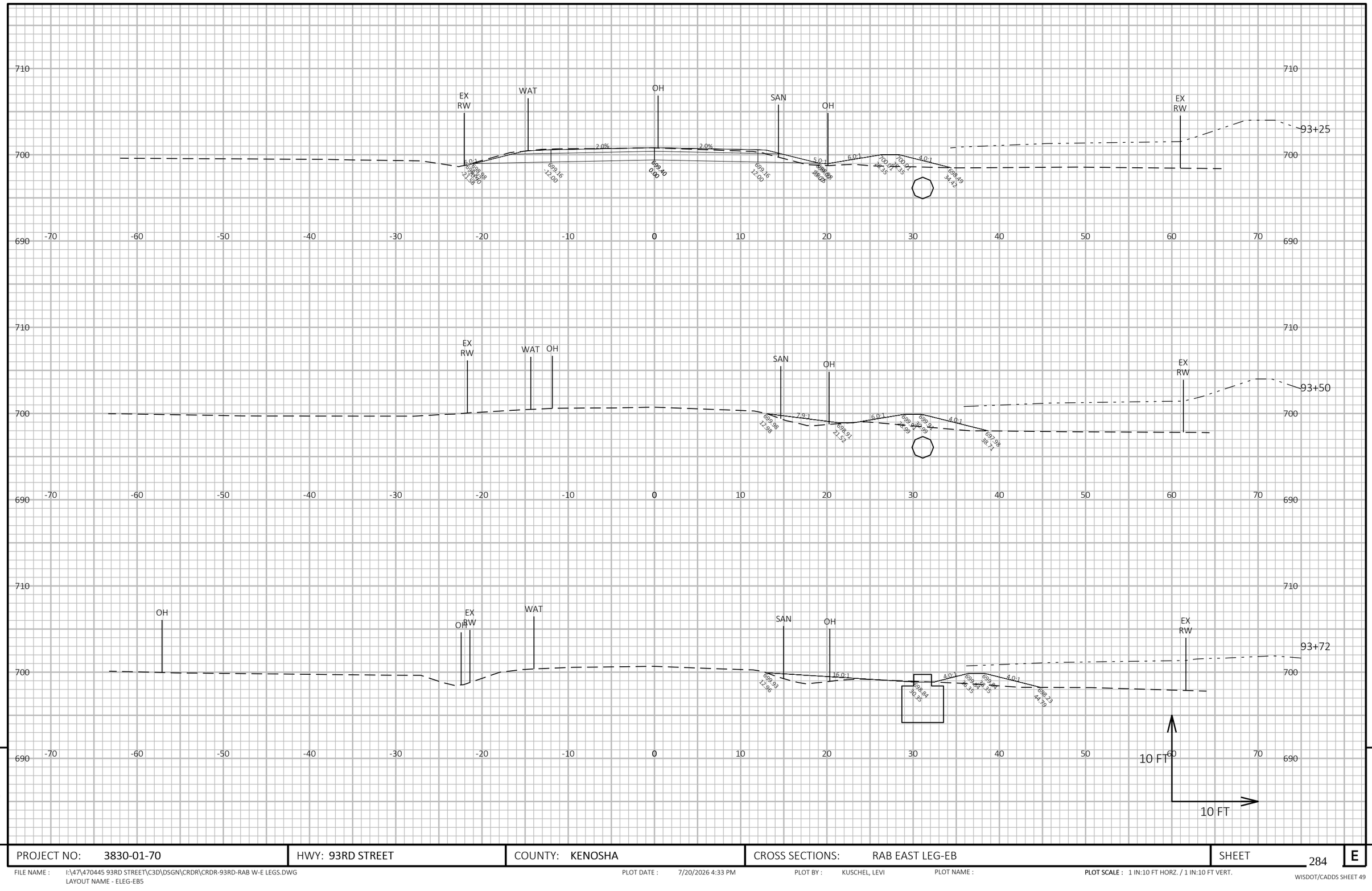
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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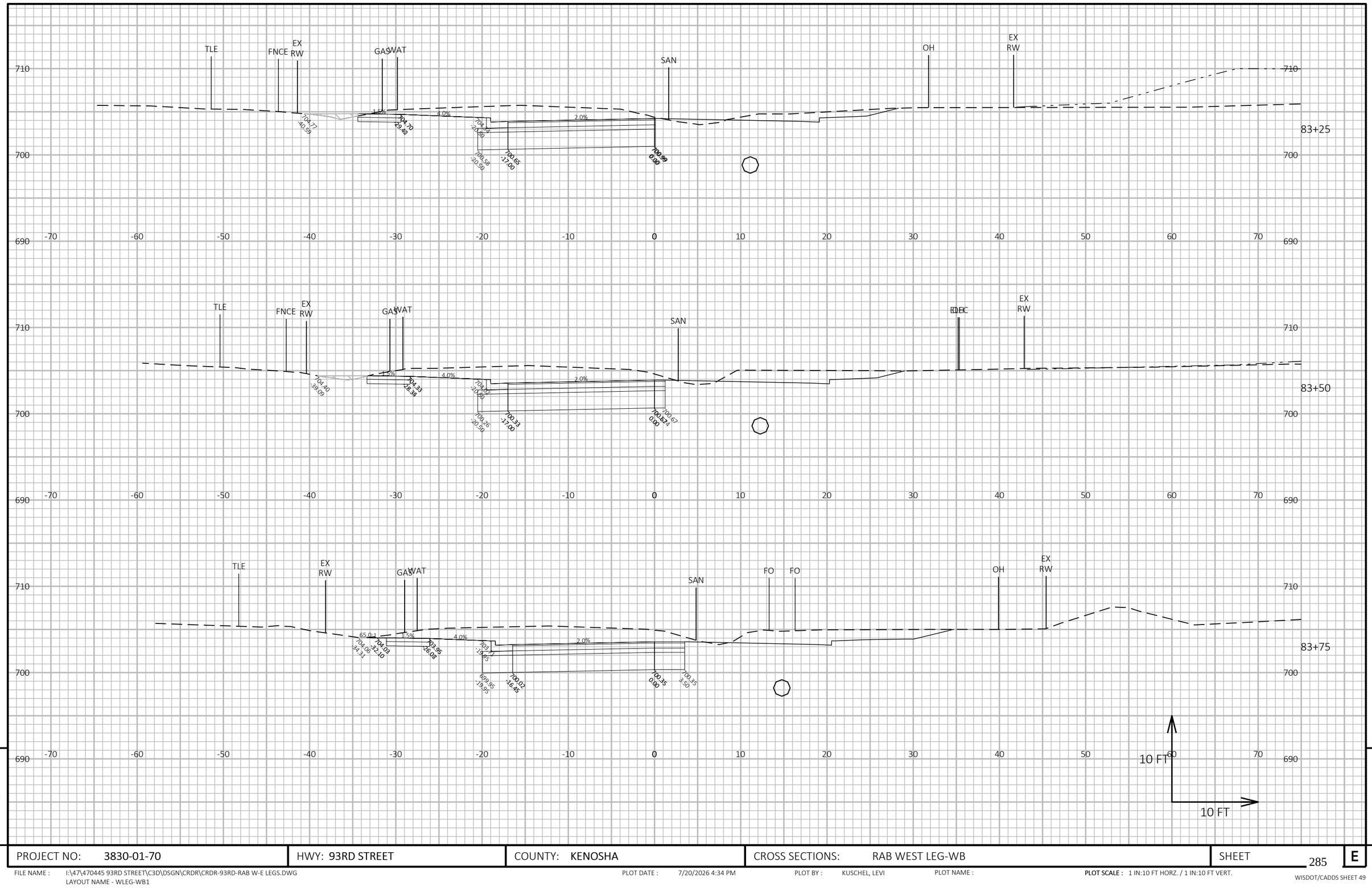
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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB EAST LEG-EB	SHEET 284	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB W-E LEGS.DWG
LAYOUT NAME - ELEG-EB5

PLOT DATE : 7/20/2026 4:33 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

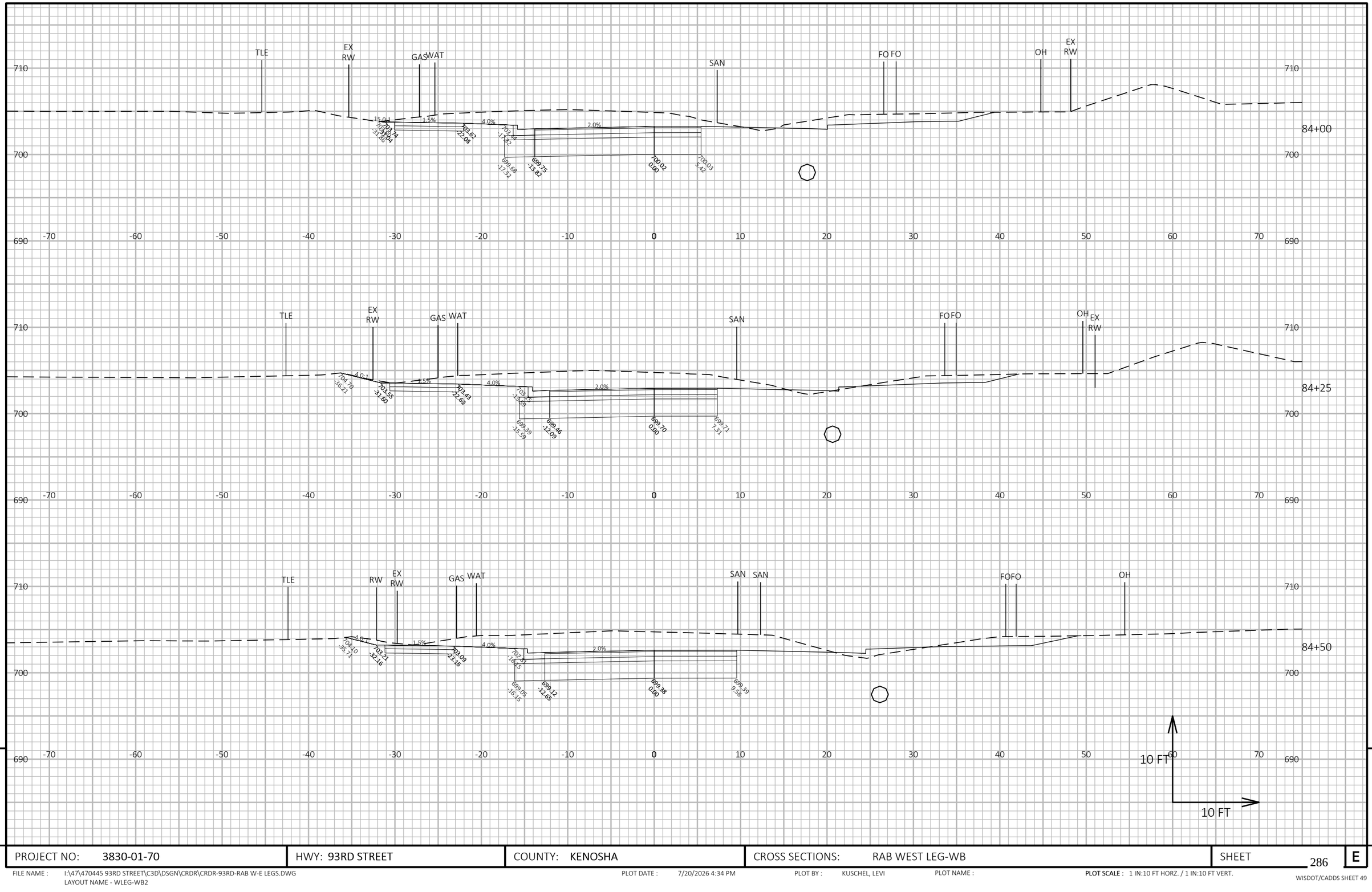


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB WEST LEG-WB	SHEET 285	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB W-E LEGS.DWG
LAYOUT NAME - WLEG-WB1

PLOT DATE : 7/20/2026 4:34 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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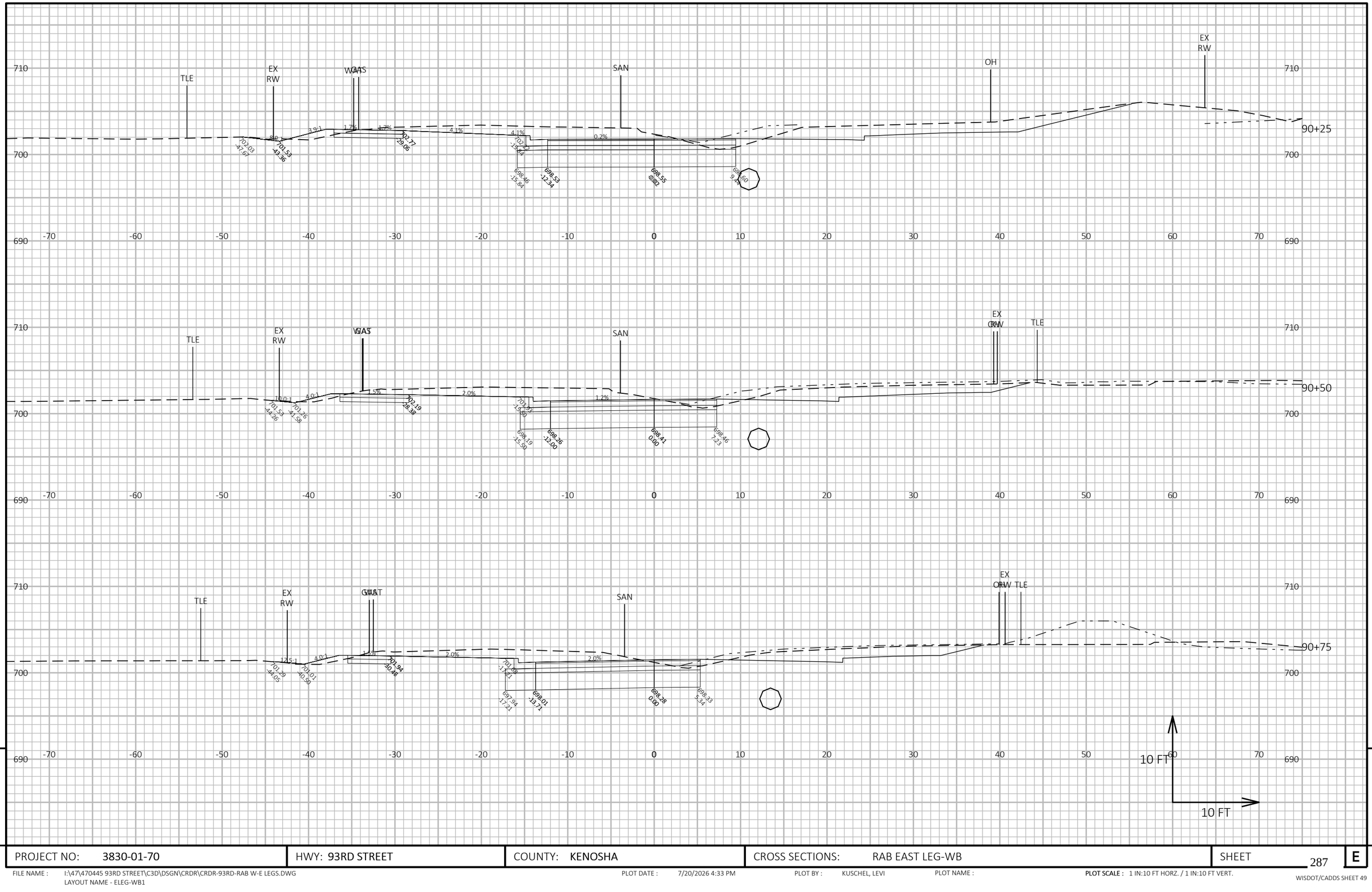
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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB WEST LEG-WB	SHEET 286	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB W-E LEGS.DWG
LAYOUT NAME - WLEG-WB2

PLOT DATE : 7/20/2026 4:34 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB EAST LEG-WB	SHEET 287	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB W-E LEGS.DWG
LAYOUT NAME - ELEG-WB1

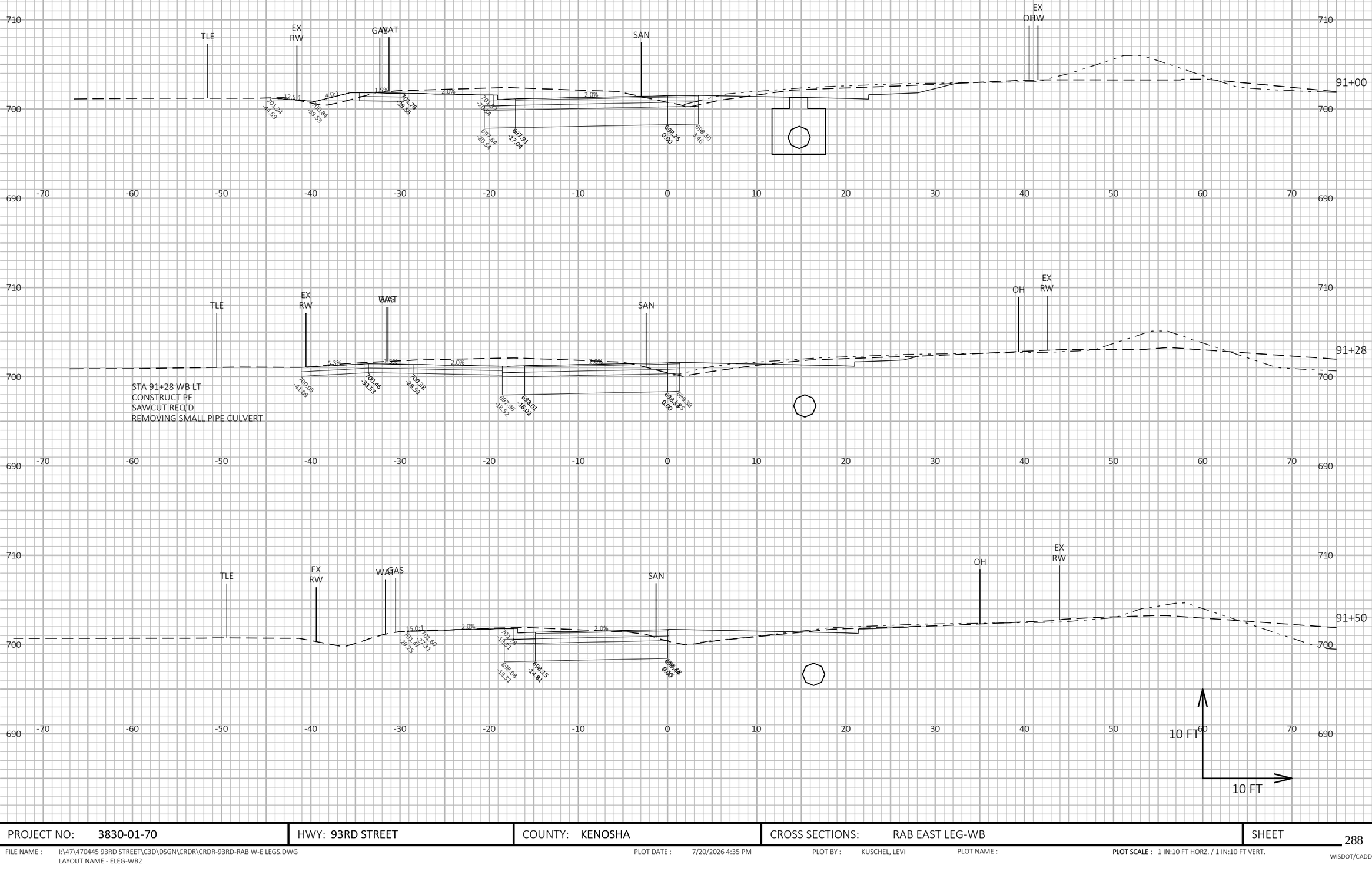
PLOT DATE : 7/20/2026 4:33 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



STA 91+28 WB LT
CONSTRUCT PE
SAWCUT REQ'D
REMOVING SMALL PIPE CULVERT

9

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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB EAST LEG-WB	SHEET 288	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB W-E LEGS.DWG
LAYOUT NAME - ELEG-WB2

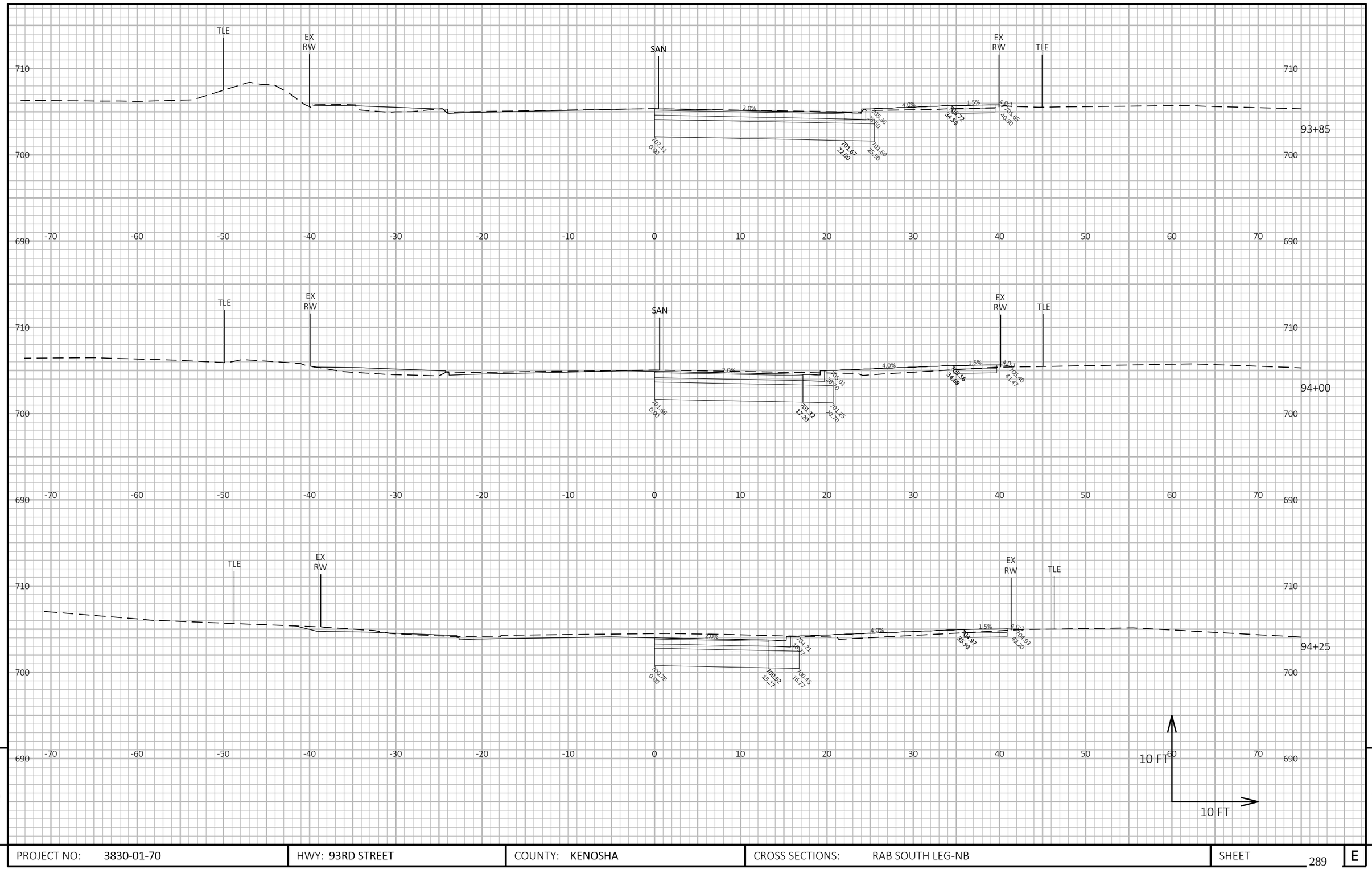
PLOT DATE : 7/20/2026 4:35 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

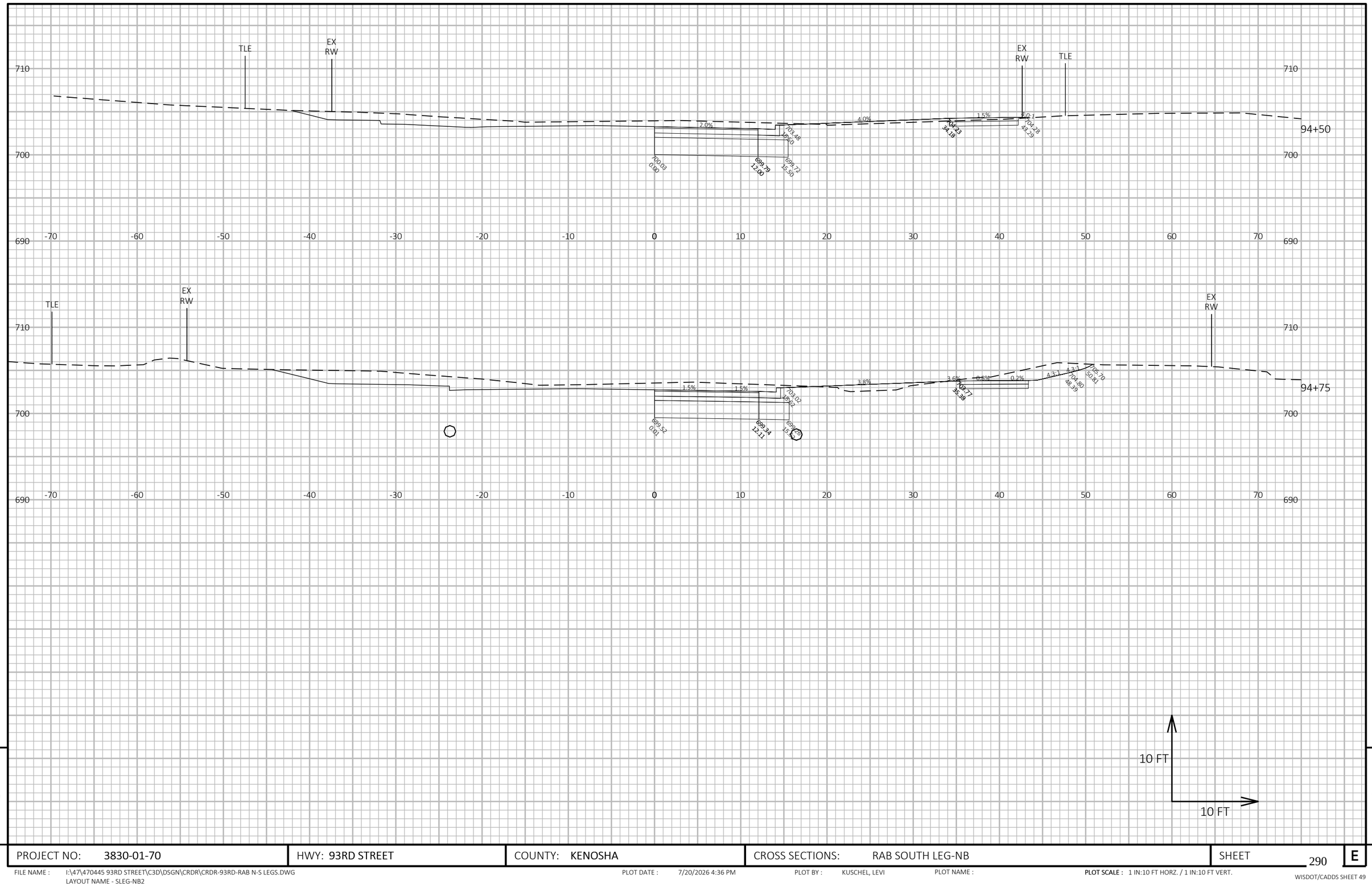


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB SOUTH LEG-NB	SHEET 289	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB N-S LEGS.DWG
LAYOUT NAME - SLEG-NB1

PLOT DATE : 7/20/2026 4:36 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

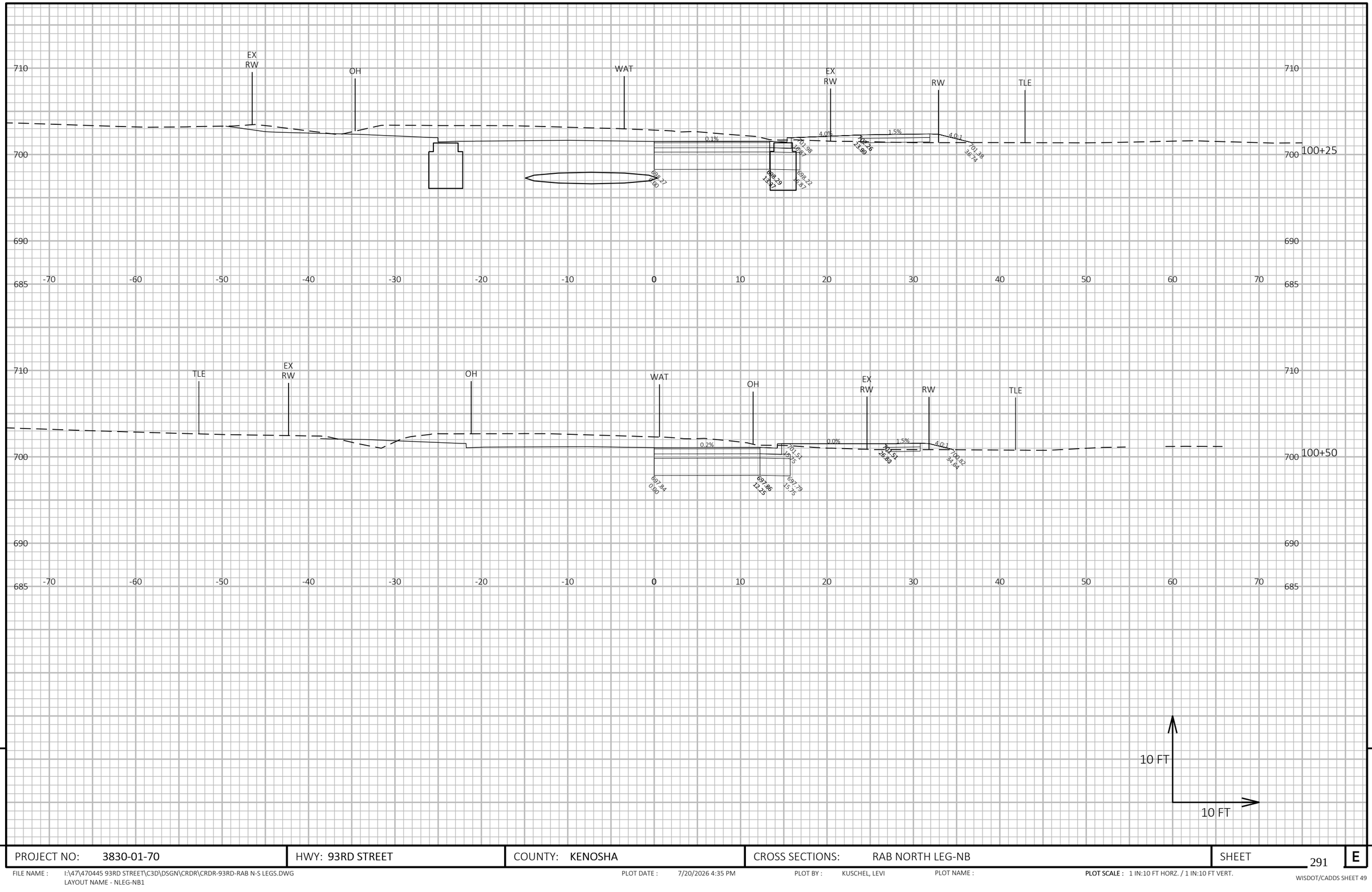
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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB SOUTH LEG-NB	SHEET 290	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB N-S LEGS.DWG
LAYOUT NAME - SLEG-NB2

PLOT DATE : 7/20/2026 4:36 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

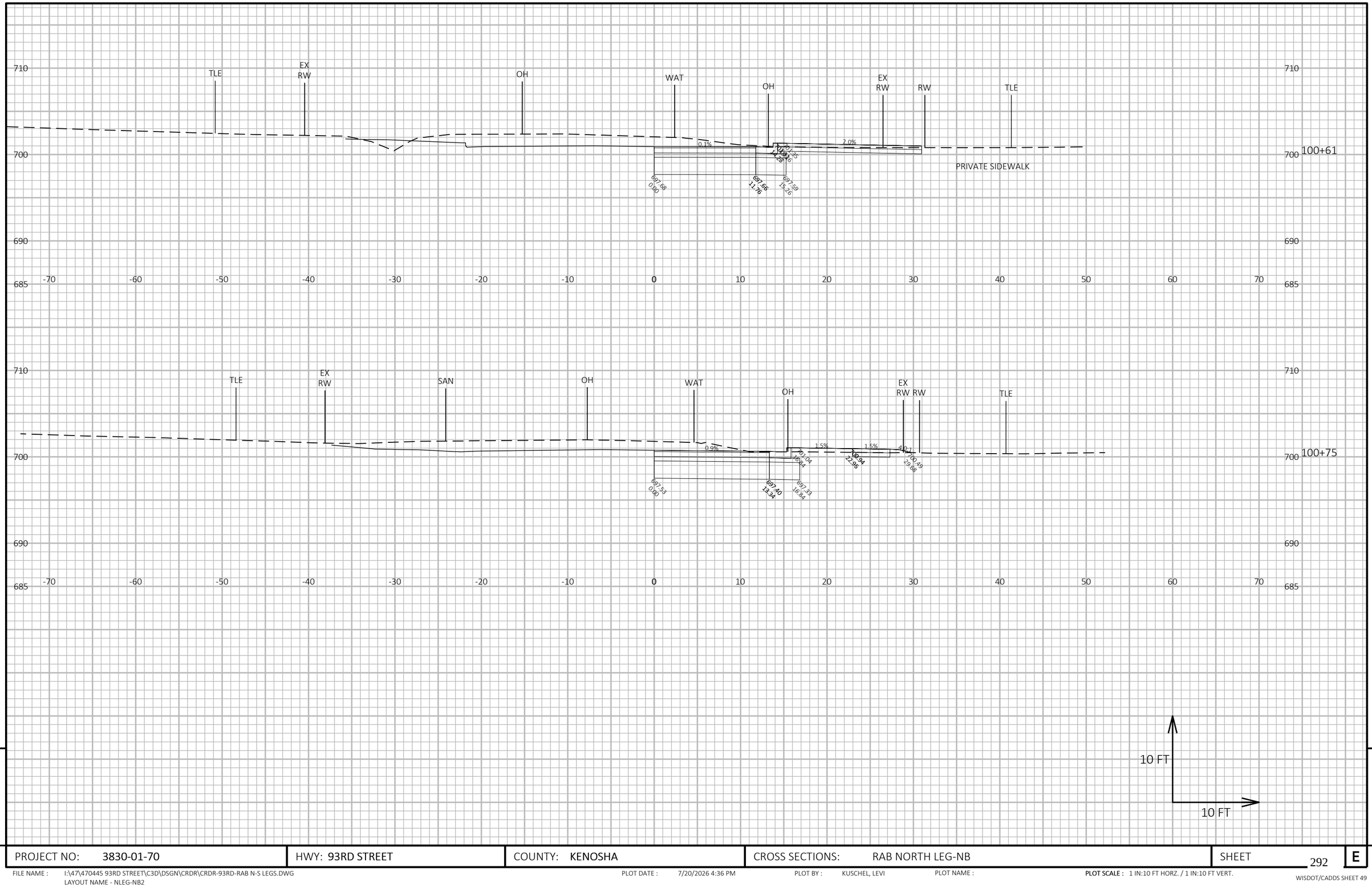


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB NORTH LEG-NB	SHEET 291 E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB N-S LEGS.DWG
LAYOUT NAME - NLEG-NB1

PLOT DATE : 7/20/2026 4:35 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

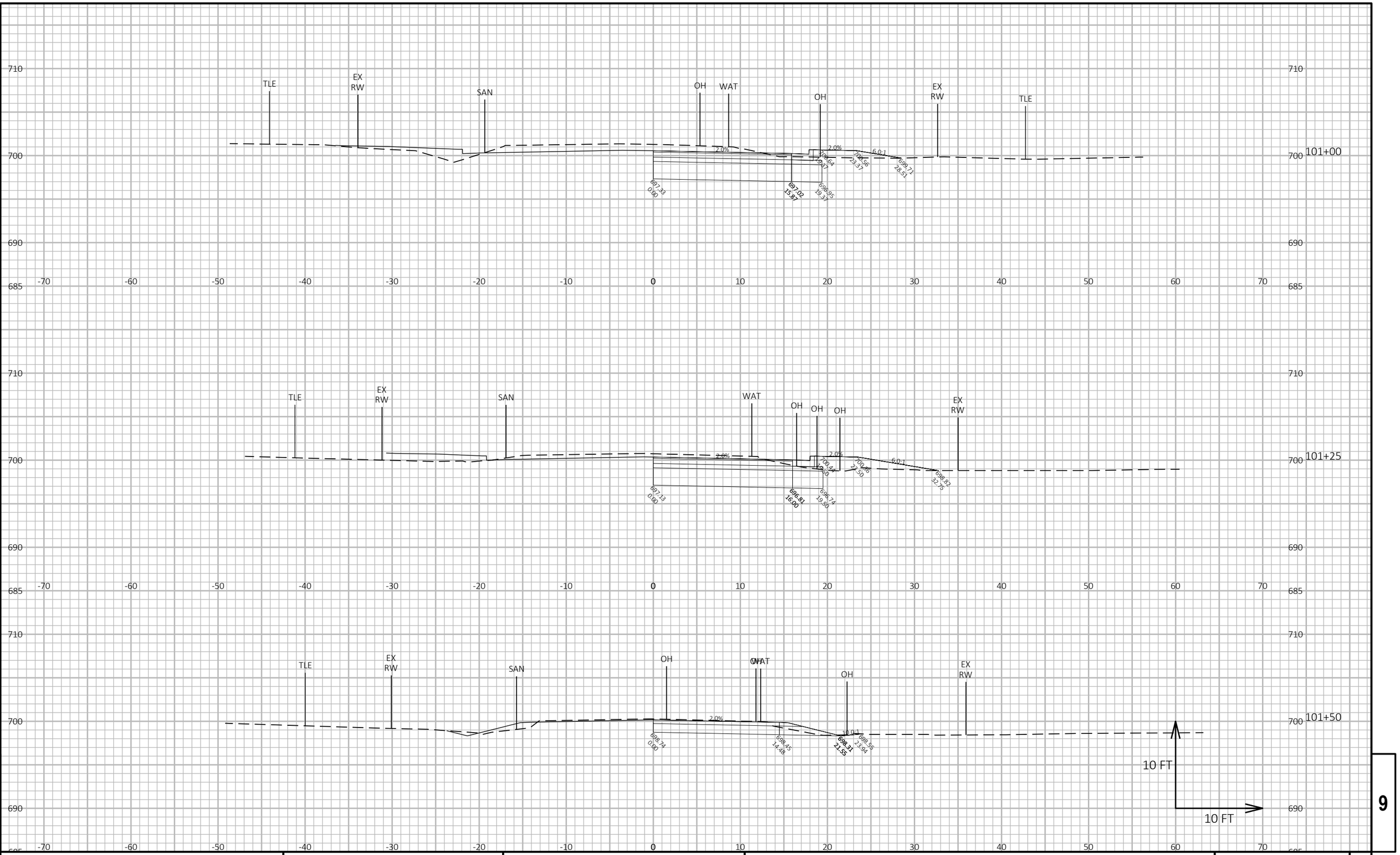
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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB NORTH LEG-NB	SHEET 292	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB N-S LEGS.DWG
LAYOUT NAME - NLEG-NB2

PLOT DATE : 7/20/2026 4:36 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

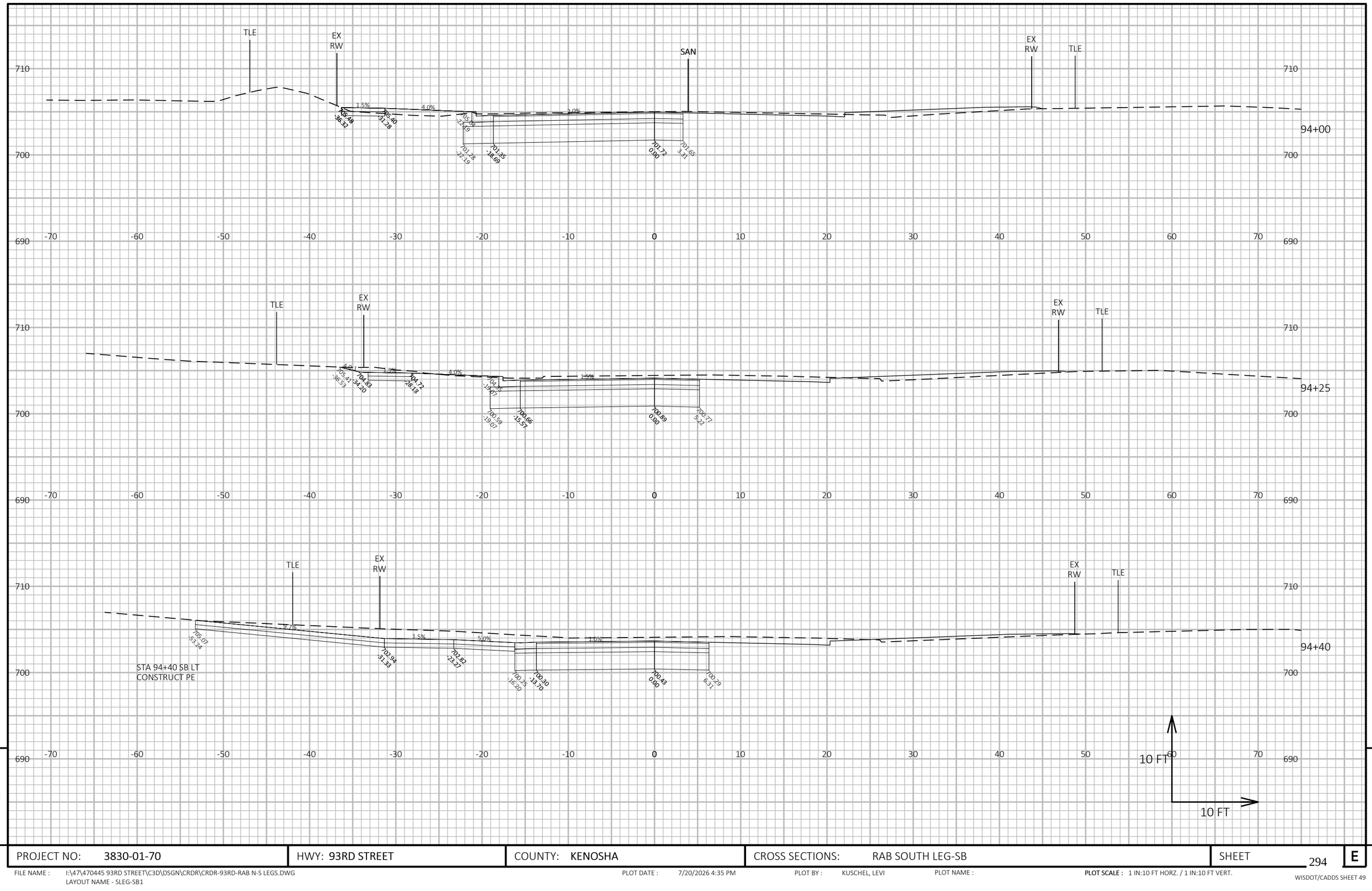


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB NORTH LEG-NB	SHEET 293	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB N-S LEGS.DWG
LAYOUT NAME - NLEG-NB3

PLOT DATE : 7/20/2026 4:33 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB SOUTH LEG-SB	SHEET 294	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB N-S LEGS.DWG
LAYOUT NAME - SLEG-SB1

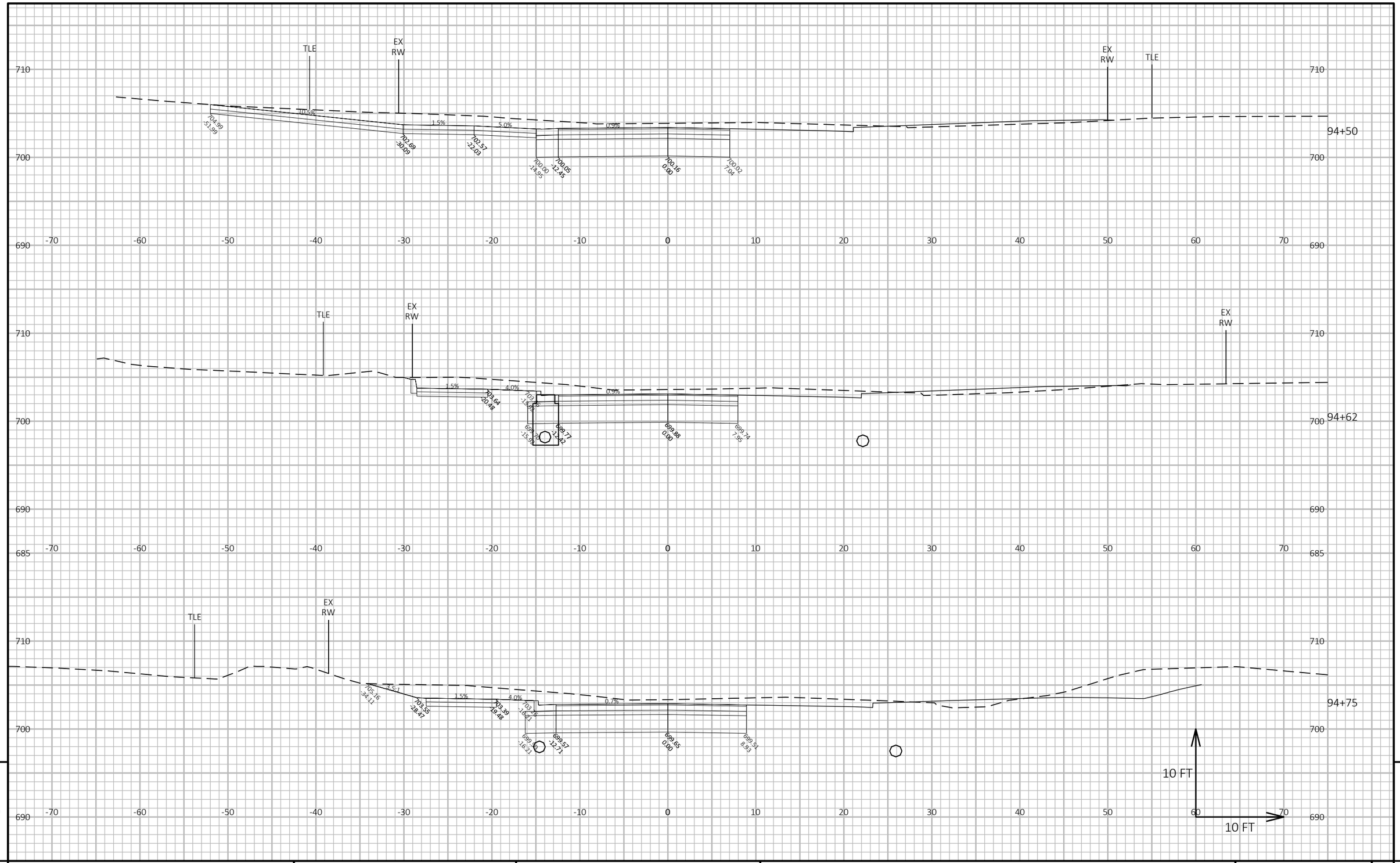
PLOT DATE : 7/20/2026 4:35 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

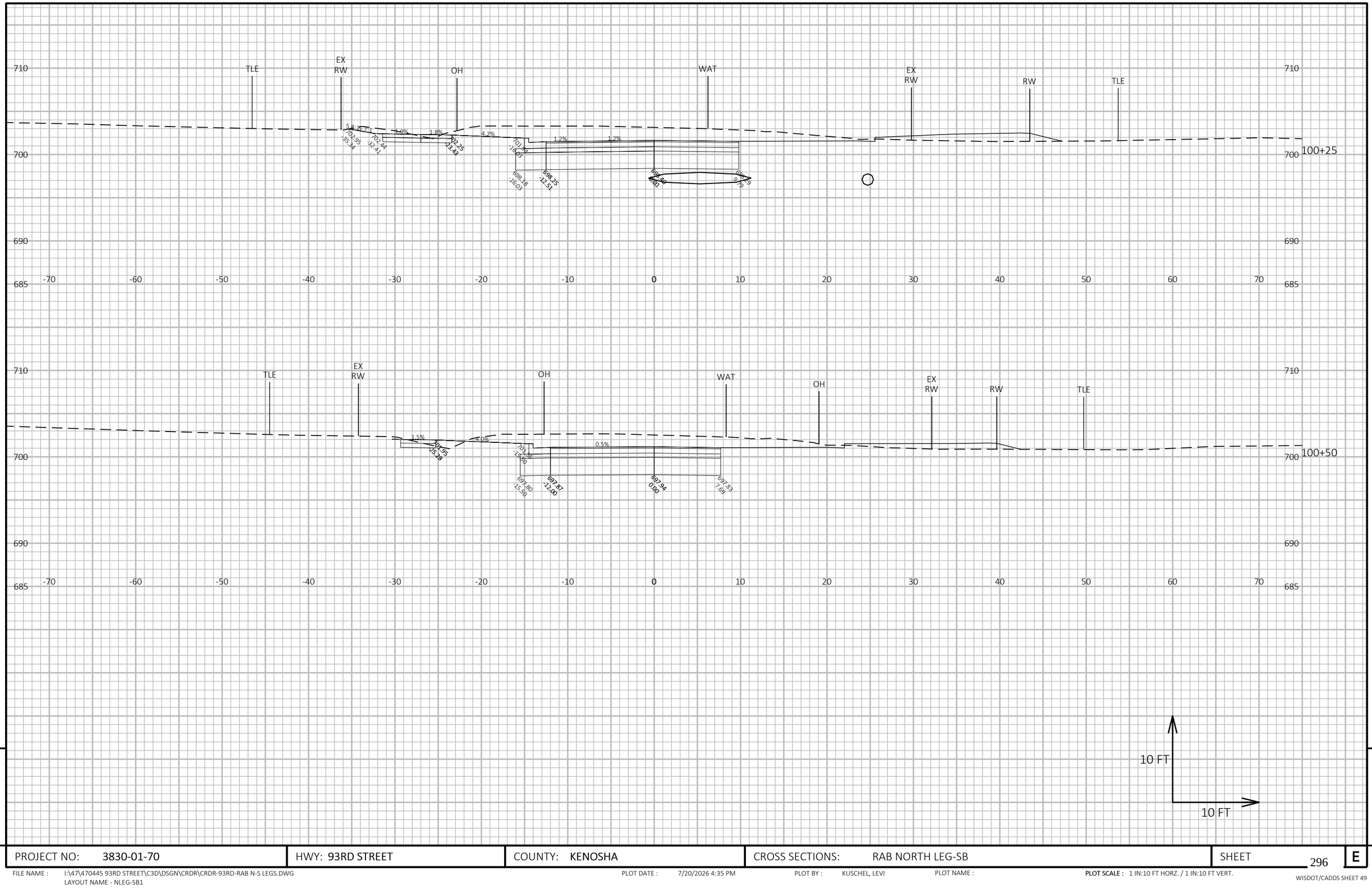


PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB SOUTH LEG-SB	SHEET 295 E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB N-S LEGS.DWG
LAYOUT NAME - SLEG-SB2

PLOT DATE : 7/20/2026 4:36 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB NORTH LEG-SB	SHEET 296	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB N-S LEGS.DWG
LAYOUT NAME - NLEG-SB1

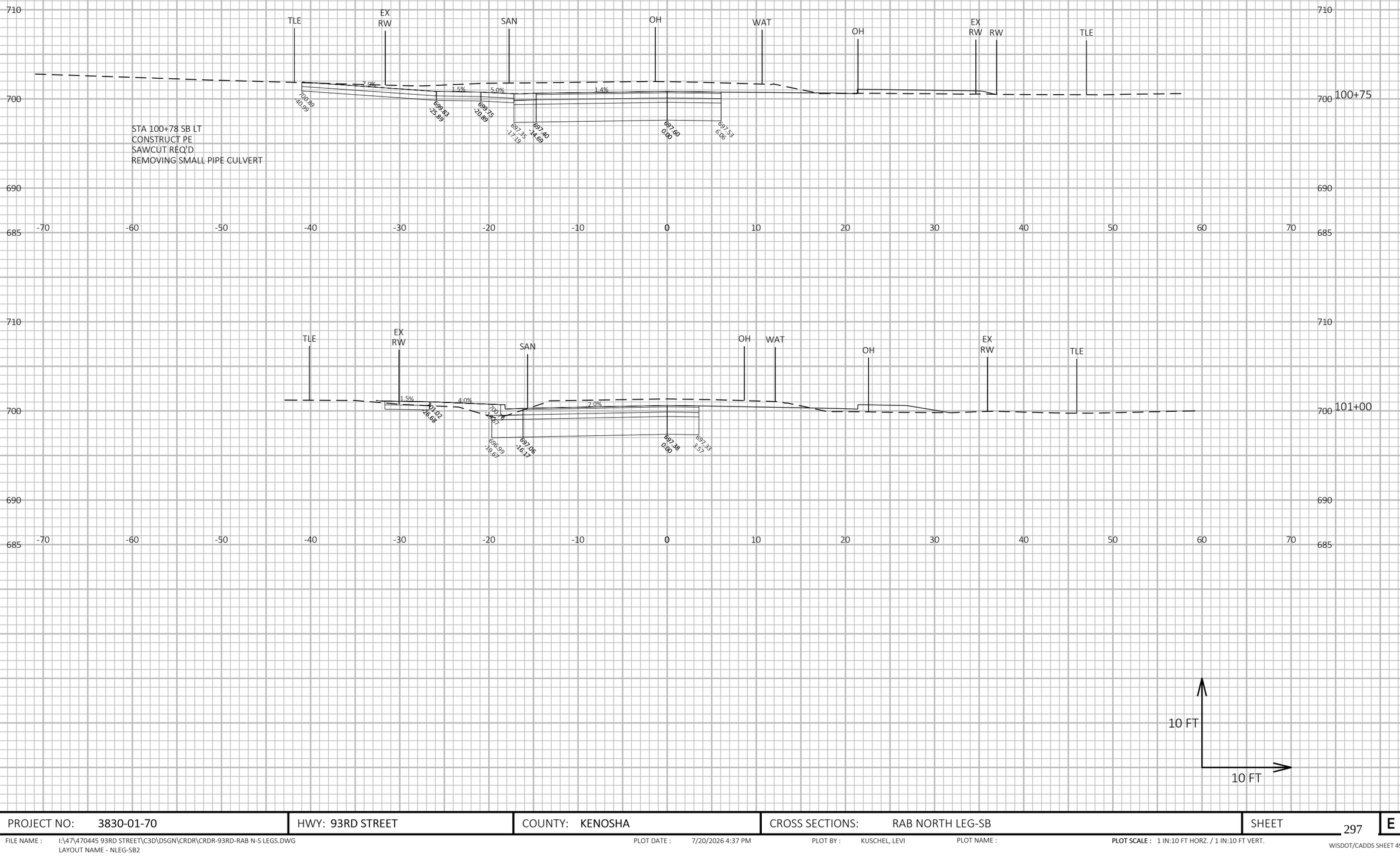
PLOT DATE : 7/20/2026 4:35 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB NORTH LEG-SB	SHEET 297	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB N-S LEGS.DWG
LAYOUT NAME - NLEG-SB2

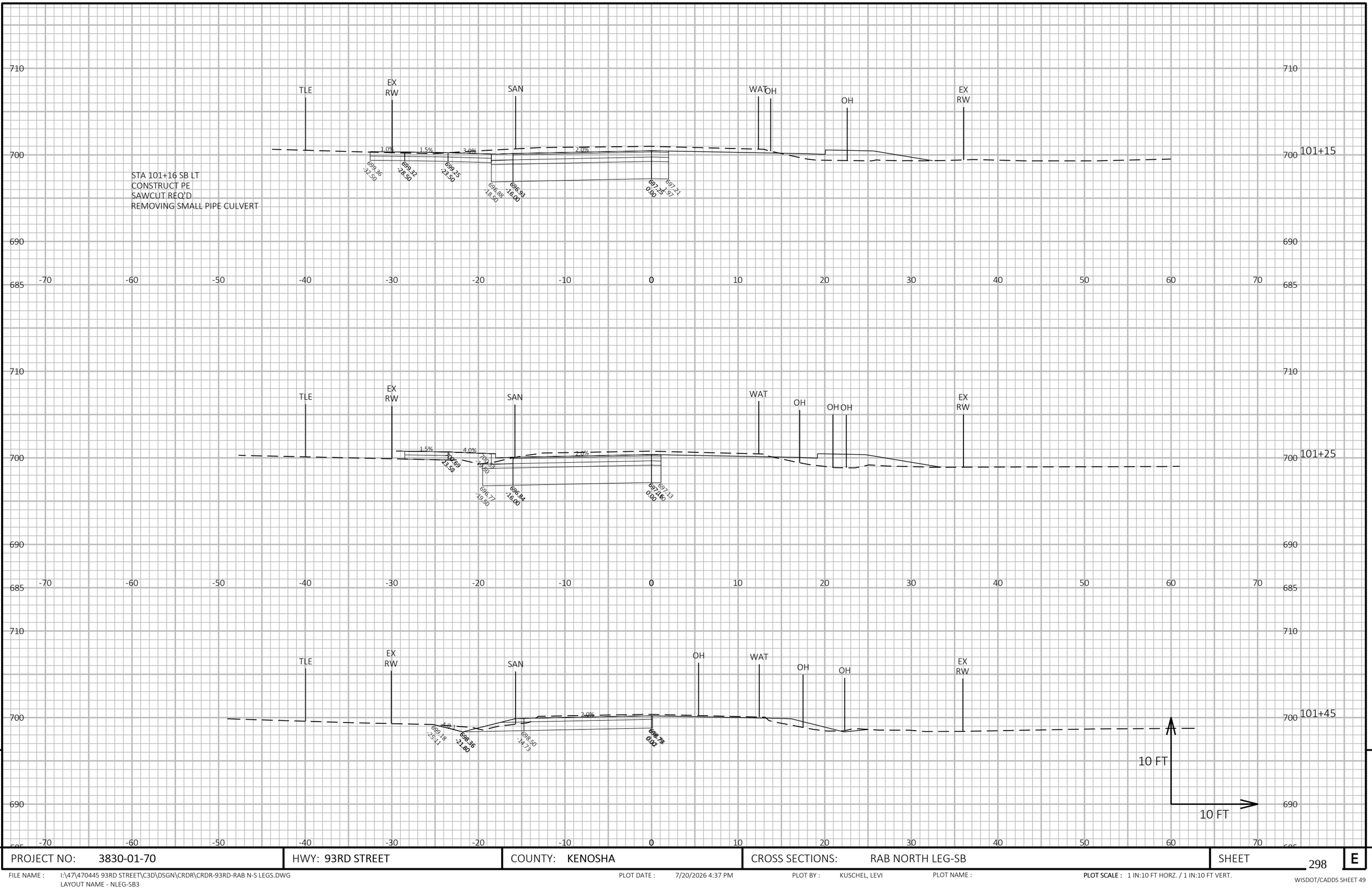
PLOT DATE : 7/20/2026 4:37 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB NORTH LEG-SB	SHEET 298	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-RAB N-S LEGS.DWG
LAYOUT NAME - NLEG-SB3

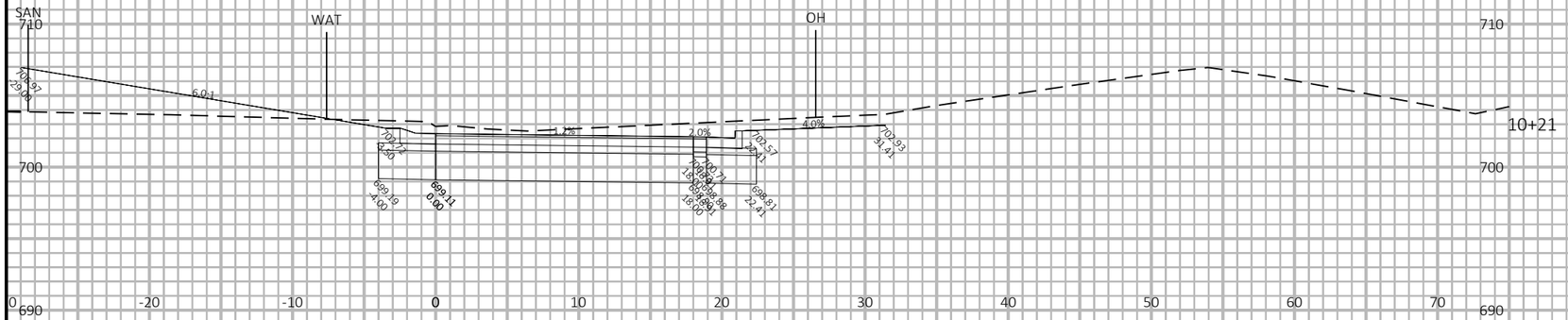
PLOT DATE : 7/20/2026 4:37 PM

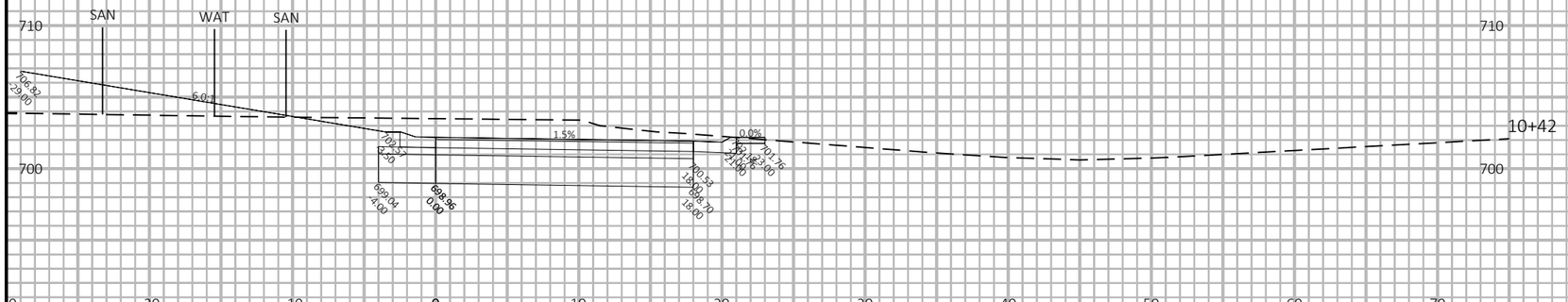
PLOT BY : KUSCHEL, LEVI

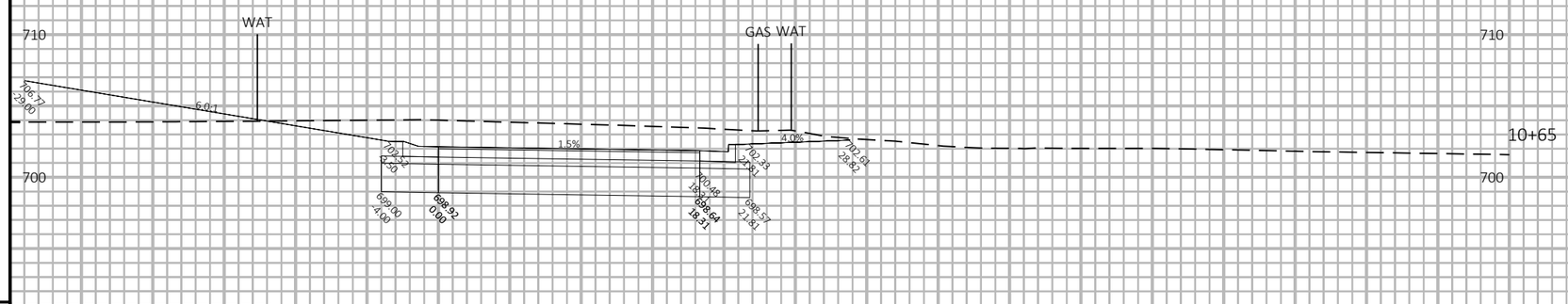
PLOT NAME :

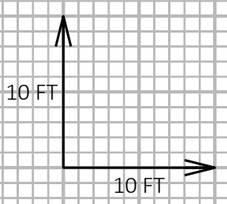
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49









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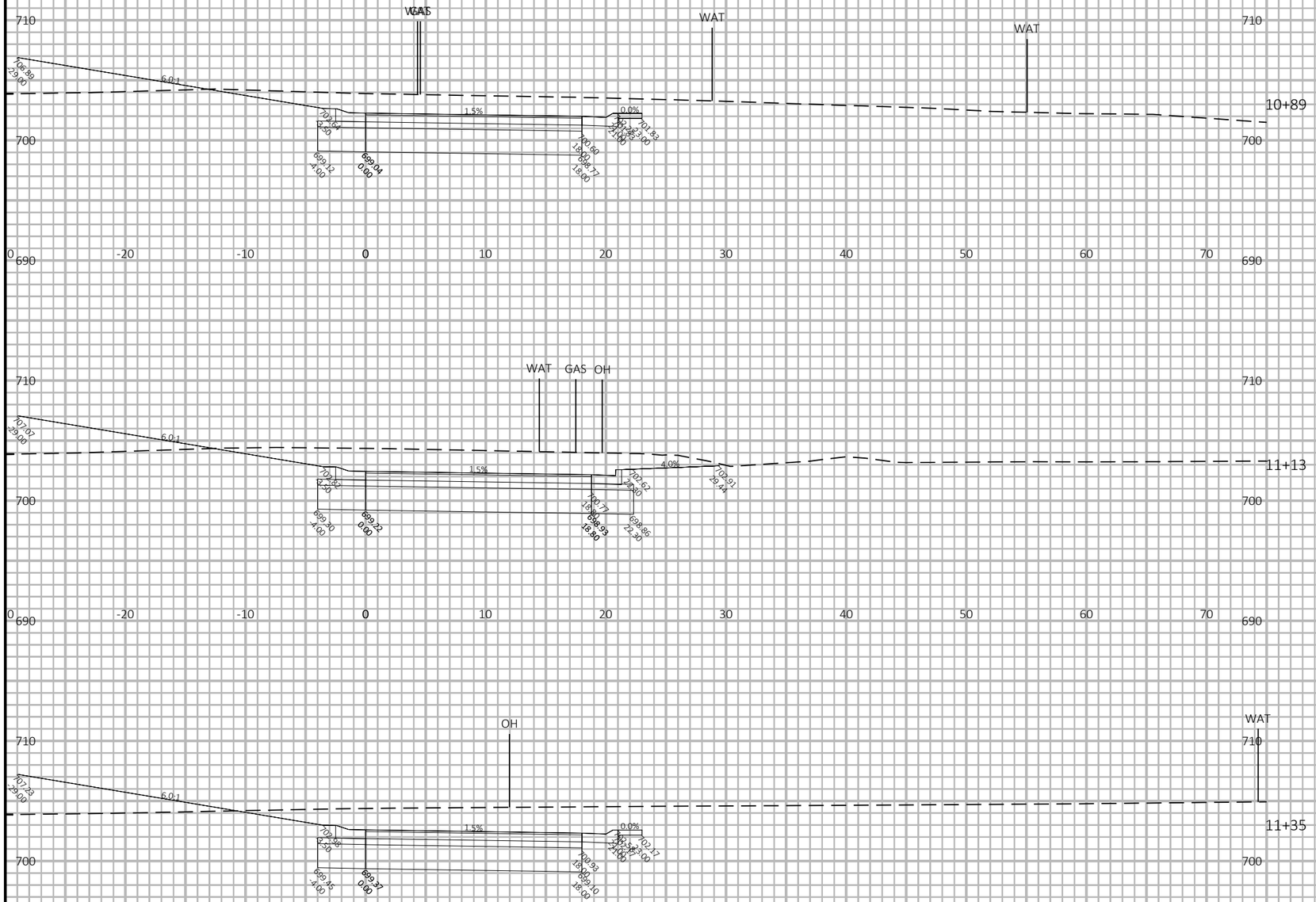
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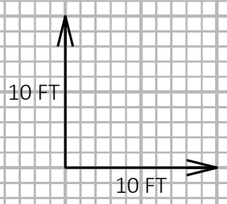
PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB CIRCLE	SHEET 299	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-CIRCLE.DWG
LAYOUT NAME - CIR-XS1

PLOT DATE : 7/20/2026 4:30 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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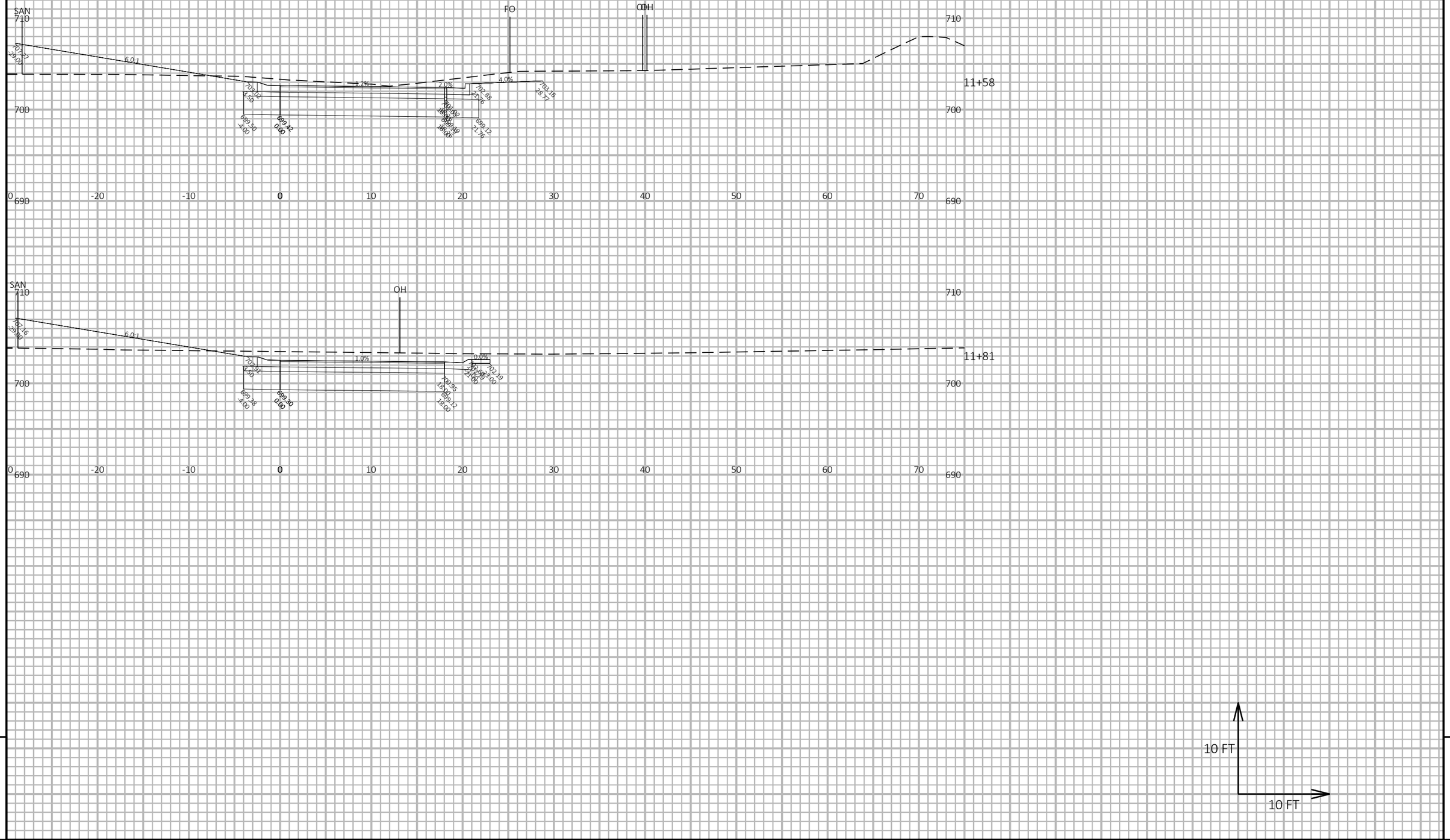
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PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB CIRCLE	SHEET 300	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-CIRCLE.DWG
LAYOUT NAME - CIR-XS2

PLOT DATE : 7/20/2026 4:30 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 3830-01-70	HWY: 93RD STREET	COUNTY: KENOSHA	CROSS SECTIONS: RAB CIRCLE	SHEET 301	E

FILE NAME : I:\47\470445 93RD STREET\C3D\DSGN\CRDR\CRDR-93RD-CIRCLE.DWG
LAYOUT NAME - CIR-XS3

PLOT DATE : 7/20/2026 4:30 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

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