WKE

FEB 11, 2020

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 = 1030

PROJECT ID: 1033-02-71,1033-02-76

WITH:

COUNTY: RACINE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1033-02-71		
1033-02-76		

STH 20-NS FRWY IC ARTERIAL CROSS ST

CTH C TO 900' W OF INTERNATIONAL DR

STH 20

RACINE COUNTY

STATE PROJECT NUMBER

1033-02-71

INTERNATIONAL DRIVE TRAFFIC MITIGATION

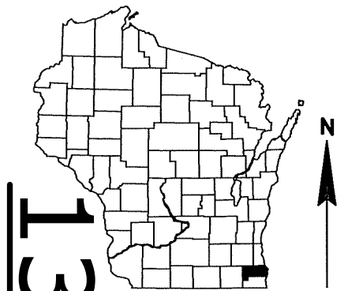
STH 20 LIMITS TO INT'L DR CONST

INTERNATIONAL DRIVE

RACINE COUNTY

STATE PROJECT NUMBER

1033-02-76



SIGN BRIDGES

S-51-227
S-51-228
S-51-229
S-51-230
S-51-249
S-51-250
S-51-259
S-51-260
S-51-261

DESIGN DESIGNATION

	STH 20	NW FRONTAGE ROAD	NE FRONTAGE ROAD	SW FRONTAGE ROAD	SE FRONTAGE ROAD
A.A.D.T. 2022 =	25,800	2022 = 4,278	2022 = 3,939	2022 = 8,328	2022 = 10,428
A.A.D.T. 2040 =	55,400	2040 = 4,831	2040 = 9,759	2040 = 9,878	2040 = 15,028
D.H.V. =	5,374	= 304	= 727	= 711	= 1,029
D.D. =	59/41	= 51/49	= 51/49	= 55/45	= 65/35
T. =	15%	= 15%	= 12%	= 20%	= 18%
DESIGN SPEED =	50 MPH	= 40 MPH	= 40 MPH	= 40 MPH	= 40 MPH
ESALS =	20,629,800	= 1,138,800	= 1,138,800	= 1,138,800	= 1,138,800

CONVENTIONAL SYMBOLS

PLAN

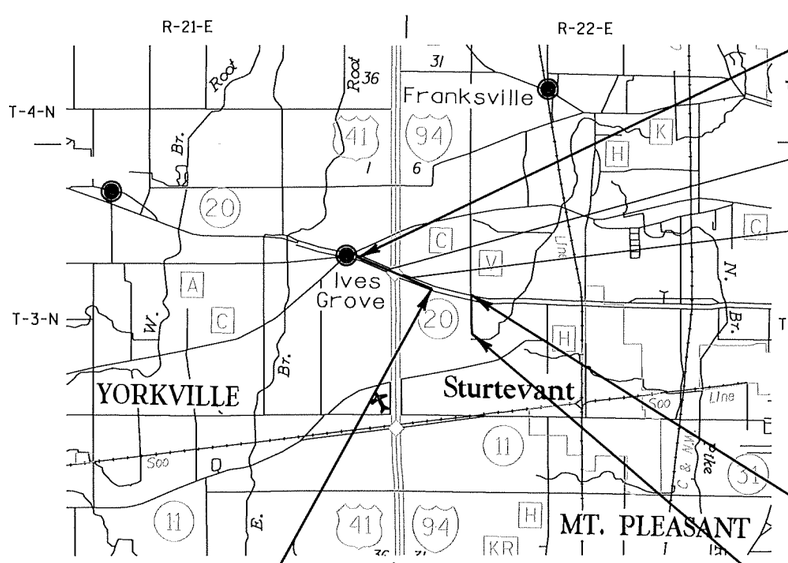
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

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



BEGIN PROJECT 1033-02-71
STA 265+06.61
X=591,330.20
Y=186,606.51

STATION EQUATION
STA 2865+23.97 BK =
STA 4864+22.42 AH

STATION EQUATION
STA 3858+95.98 BK =
STA 5858+84.34 AH

END PROJECT 1033-02-76
STA 135+38.00

BEGIN PROJECT 1033-02-76
STA 111+75.00
X=599304.1209
Y=181300.2467

END PROJECT 1033-02-71
STA 330+30.25

LAYOUT
SCALE 0 1.0 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.236 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), RACINE COUNTY, NAD83(1997)

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD88 (1991).

ORIGINAL PLANS PREPARED BY

ch2m:

MILWAUKEE, WISCONSIN

WISCONSIN
WILLIAM T. STOCK
359[illegible]06
MILWAUKEE, WI
PROFESSIONAL ENGINEER

10/1/2019 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	CH2M
Project Manager	FRANK PRITZLAFF
District Examiner	
District Supervisor	MANOJOY NAG
C.O. Examiner	

APPROVED FOR DISTRICT OFFICE

DATE: 9-30-19 (Signature)

E

UTILITY CONTACTS

AT&T LEGACY
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6070 N. FLINT ROAD
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RACINE WATER WORKS COMMISSION
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800 CENTER STREET, ROOM 227
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2801 89TH STREET
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mmadsen@nmbsc.net

YORKVILLE WATER UTILITY DISTRICT
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GENERAL MANAGER
RYDE
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SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
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STATE AGENCIES

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DNR SERVICE CENTER
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frank.pritzlaff@dot.wi.gov

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

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

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLANS
PLAN DETAILS
PAVING GRADES
EROSION CONSTROL
STORM SEWER
EXISTING SIGNING
PERMANENT SIGNING
LIGHTING PLAN
TRAFFIC SIGNALS
PAVEMENT MARKING
TRAFFIC CONTROL
STAGE CONSTRUCTION
DETOUR PLAN
FENCING
ALIGNMENT LAYOUT

STANDARD ABBREVIATIONS

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

GENERAL NOTES

NO GRINDING OF PAVEMENT MARKING REMOVALS WILL BE ALLOWED.

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

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATION AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

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

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR BACKFILL AND PAID FOR AS INCIDENTAL TO THE ABANDON OR REMOVAL ITEM.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLANS AND PROVIDE DOCUMENTATION TO ENGINEER IN ACCORDANCE WITH SPECIFICATIONS.

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

THE QUANTITY OF SALVAGED TOPSOIL IS COMPUTED FROM MEASUREMENTS BETWEEN THE SUBGRADE SHOULDER POINTS AND THE SLOPE INTERCEPTS AS SHOWN ON THE CROSS SECTIONS PLUS 5 FEET FOR ROUNDING.

CURB HEIGHTS AT THE END OF CURB AND GUTTER SHALL BE TAPERED FROM 0 TO 4 INCHES OR 0 TO 6 INCHES IN 6 FEET.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE, UNLESS OTHERWISE NOTED IN THE PLANS.

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS.

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

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.

A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING ASPHALTIC CONCRETE SURFACE.

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

REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.

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

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE TOPSOILED, FERTILIZED, EROSION MATTED AND SEEDED AS DIRECTED BY THE ENGINEER.

THE REMOVAL OF ANY MESH OR REINFORCEMENT PRESENT IN EXISTING CONCRETE PAVEMENT WILL BE CONSIDERED INCIDENTAL TO THE REMOVING PAVEMENT ITEM.

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

CONCRETE MEDIAN SLOPED NOSE SHALL BE CONSTRUCTED FOR ALL MEDIAN OPENINGS AT INTERSECTIONS WITH CURB & GUTTER.

HMA PAVEMENT AND CONCRETE DRIVEWAYS OR PARKING LOTS SHALL BE SAWCUT AT THE MATCHLINE AS SHOWN ON THE PAVING DETAILS OR AS DIRECTED BY THE ENGINEER.

-A CONVERSION FACTOR OF 1.9 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR SELECT CRUSHED MATERIAL.

-A CONVERSION FACTOR OF 2.1 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE 3/4-INCH.

-A CONVERSION FACTOR OF 2.0 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE 1 1/4-INCH.

-A CONVERSION FACTOR OF 112 LB/SY/IN IS USED TO ESTIMATE QUANTITIES FOR HMA PAVEMENT.

EXISTING PIPE CULVERT SIZES AND CONCRETE BOX CULVERT SIZES SHOWN ARE APPROXIMATE AND CONTRACTOR WILL BASE BID ON THE ACTUAL FIELD CONDITIONS.

HMA PAVEMENT, TEMPORARY SHALL BE CONSTRUCTED IN A SINGLE LAYER.

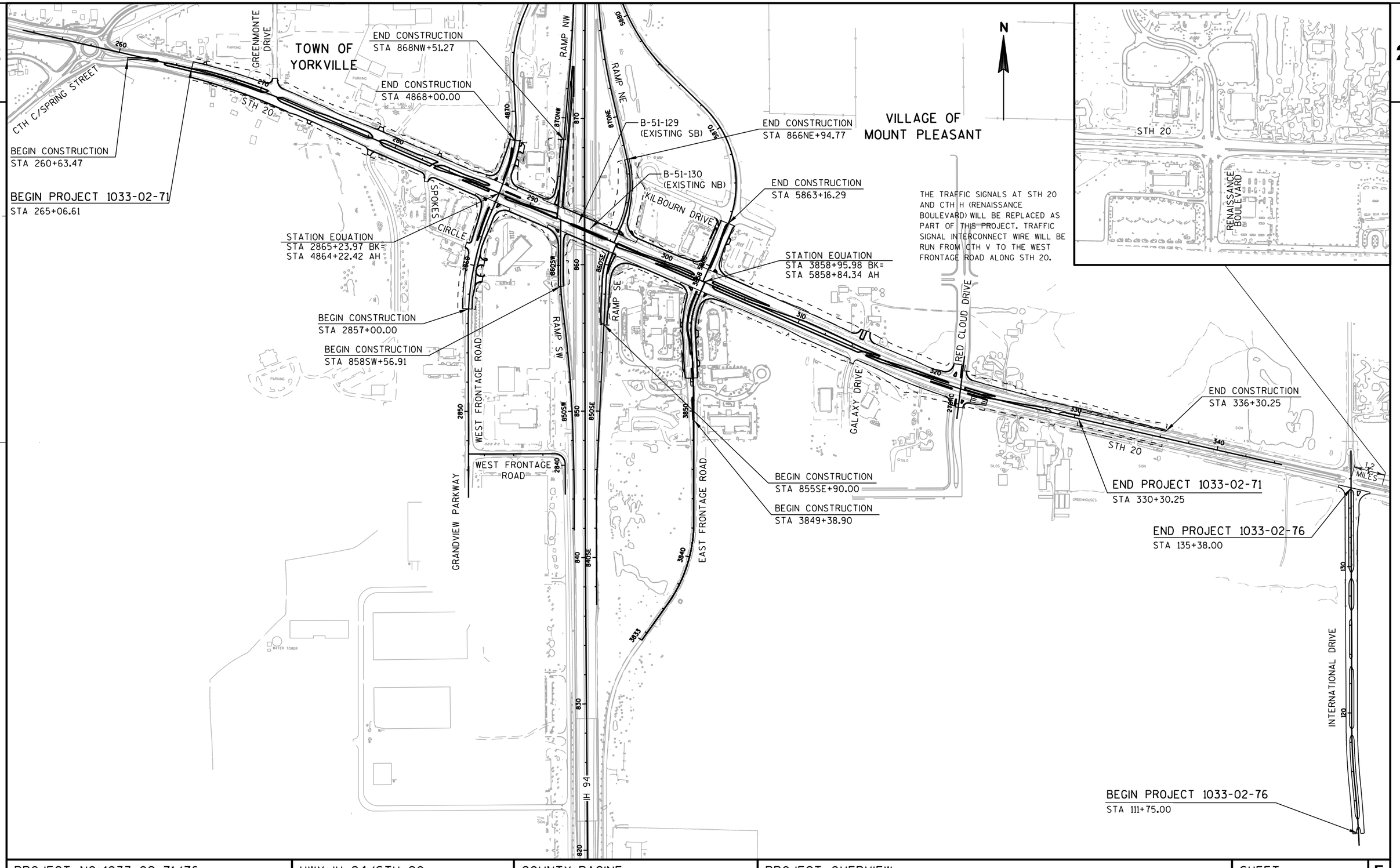
ALL TYPES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

	PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS
A	4 MT 58-28S	7.5"	2" UPPER LAYER
	3 MT 58-28S		2 3/4" UPPER-LOWER LAYER
	3 MT 58-28S		2 3/4" LOWER-LOWER LAYER
B	4 MT 58-28H	2.0"	2" UPPER LAYER

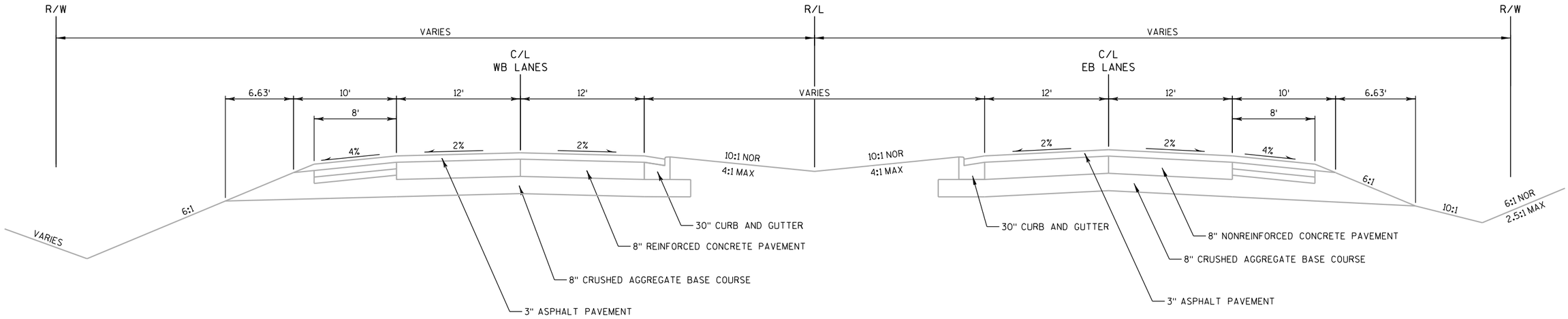
ALL EXISTING STREET NAME SIGNS WILL BE REMOVED AND REPLACED BY THE TOWN OF YORKVILLE OR THE VILLAGE OF MOUNT PLEASANT.

COORDINATE WITH THE RACINE COUNTY PLANNING AND DEVELOPMENT DIRECTOR, JULIE ANDERSON, AT 262-886-8470 TO PERPETUATE SECTION CORNERS 10 DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION OPERATIONS.

2



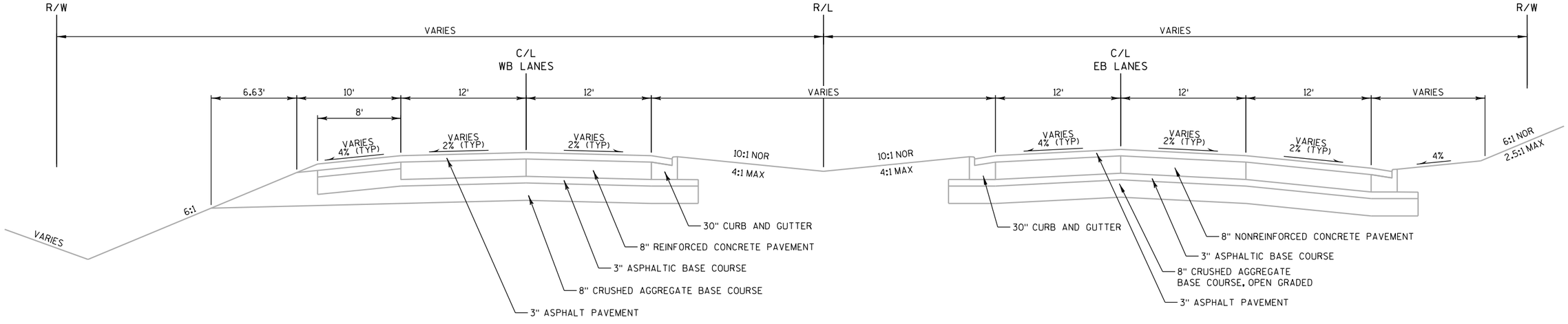
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PROJECT OVERVIEW	SHEET	E



TYPICAL EXISTING SECTION

STH 20

STA 272+30 TO STA 282+00



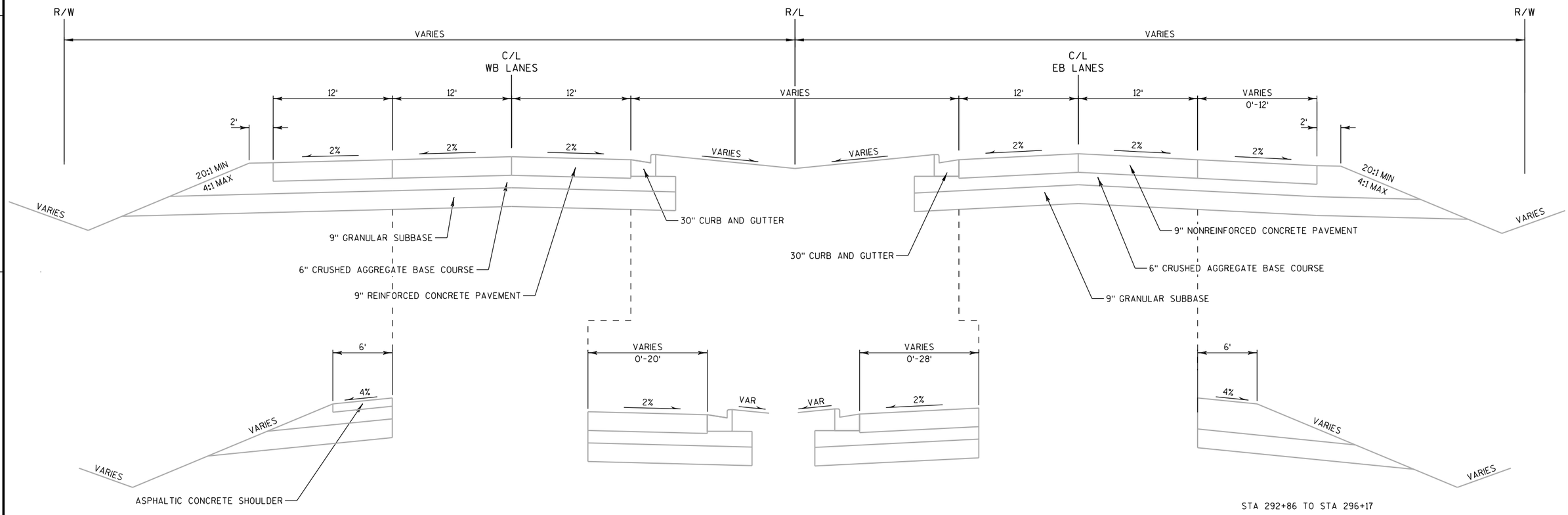
TYPICAL EXISTING SECTION

STH 20

STA 265+07 TO STA 272+30

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2



STA 287+85 TO STA 291+05

STA 287+86 TO STA 291+76
STA 292+98 TO STA 295+85

STA 283+32 TO STA 286+96
STA 292+98 TO STA 295+84

STA 292+86 TO STA 296+17

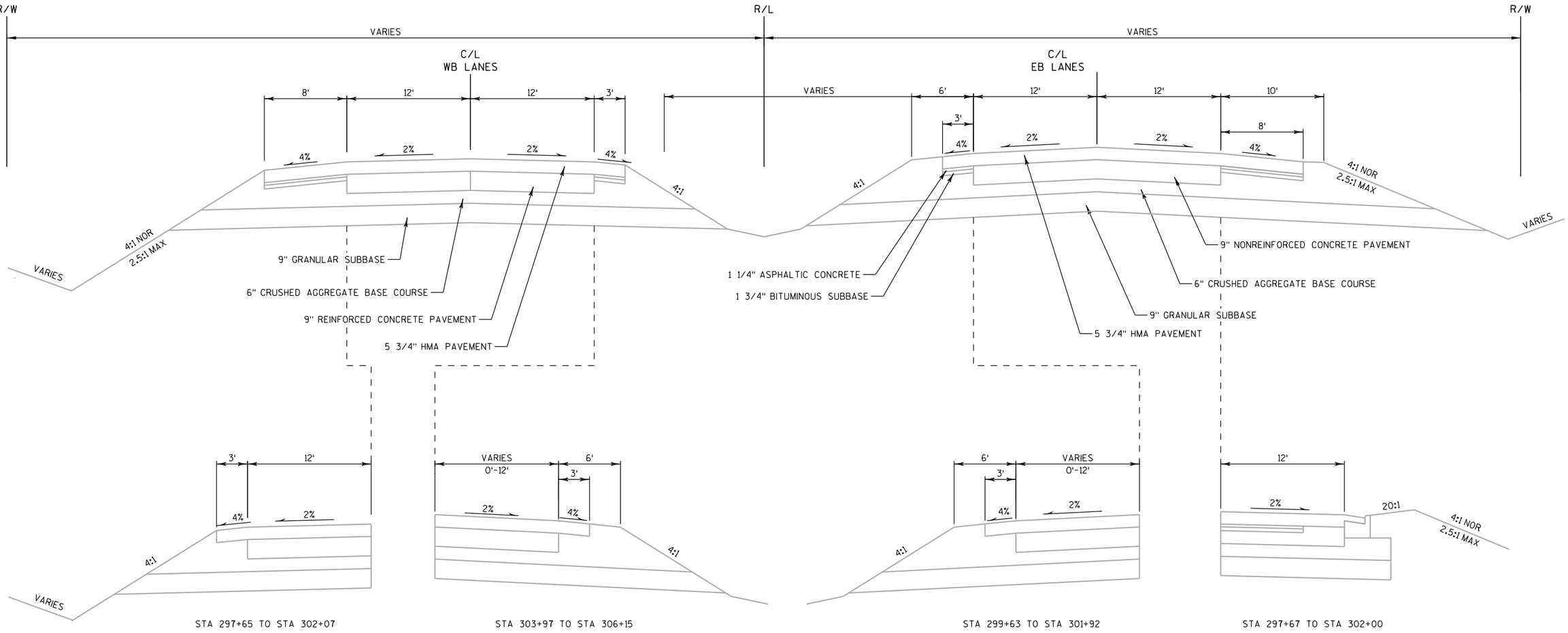
TYPICAL EXISTING SECTION

STH 20

STA 282+00 TO STA 297+65

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2



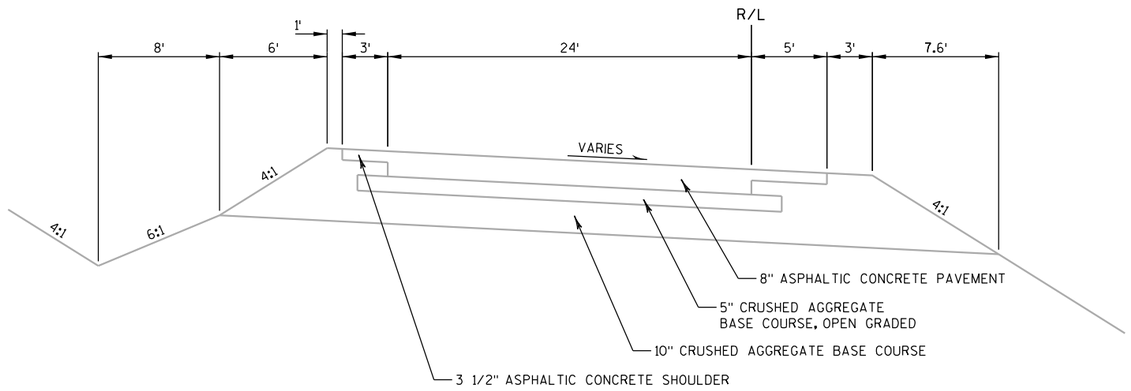
TYPICAL EXISTING SECTION

STH 20

STA 297+65 TO STA 338+66

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

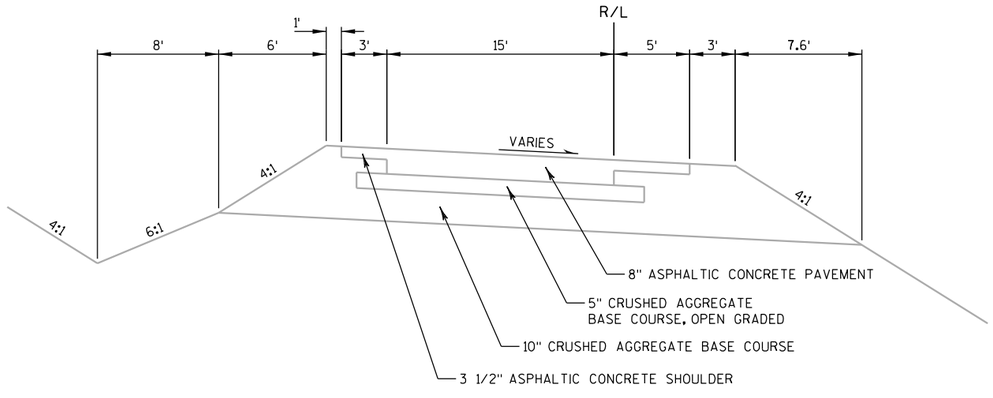
2



TYPICAL EXISTING SECTION

RAMPS

STA 855SE+90 TO STA 860SE+54
STA 864NW+33 TO STA 867NW+23



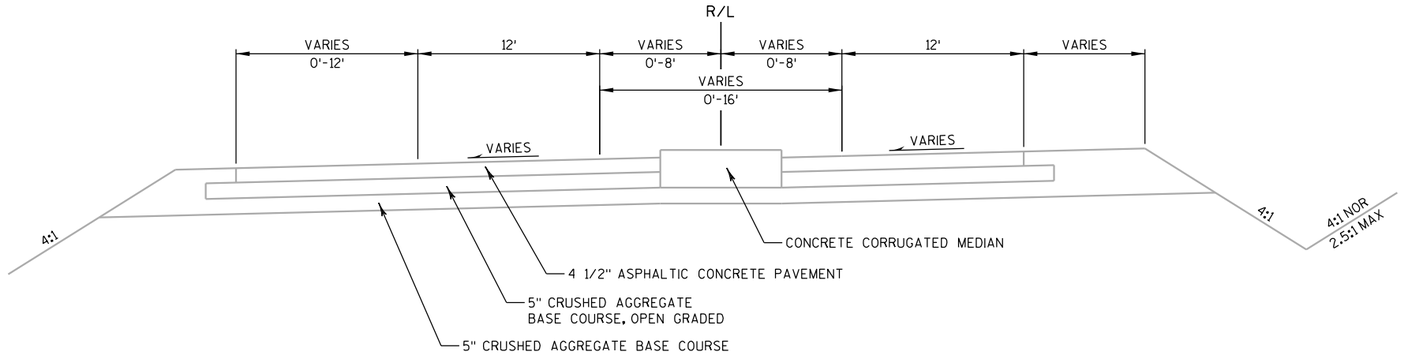
TYPICAL EXISTING SECTION

RAMPS

STA 861SW+41 TO STA 862SW+25
STA 861NE+92 TO STA 866NE+95

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

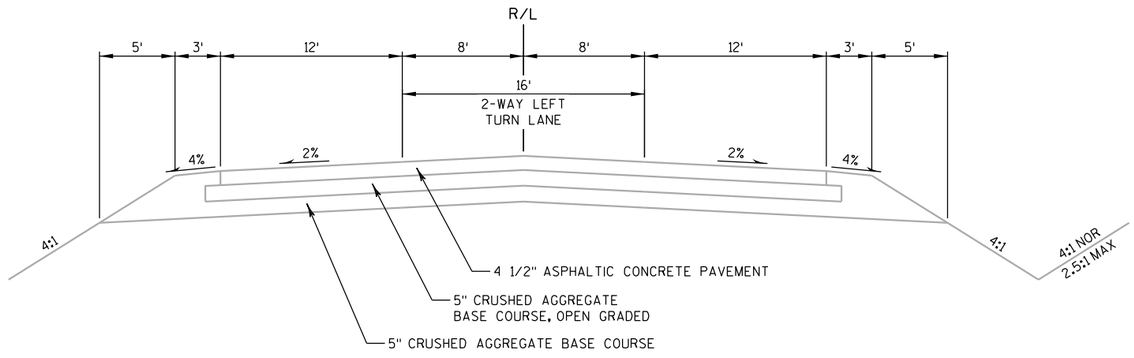
2



TYPICAL EXISTING SECTION

WEST FRONTAGE ROAD

STA 2861+89 TO STA 2864+28
STA 4865+07 TO STA 4868+00



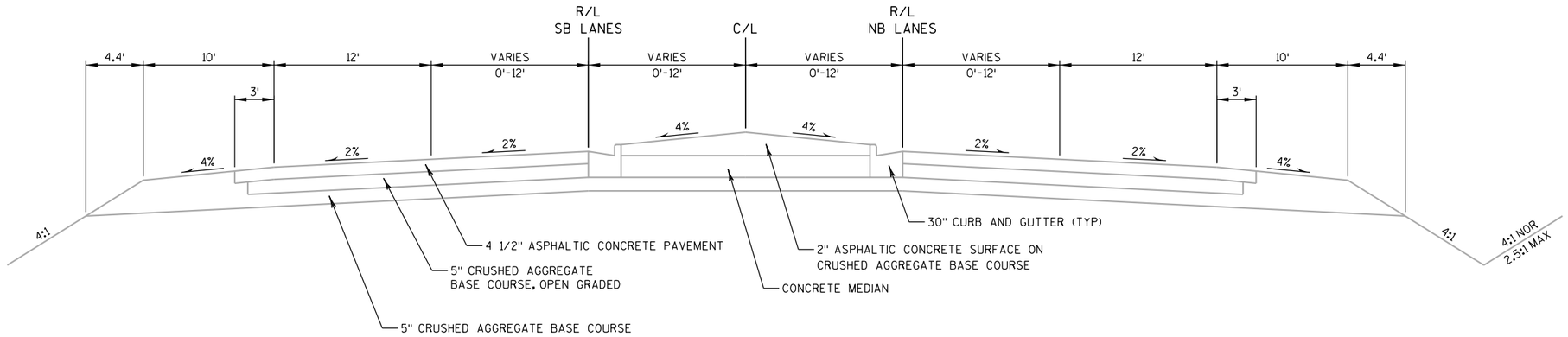
TYPICAL EXISTING SECTION

WEST FRONTAGE ROAD

STA 2857+00 TO STA 2861+89

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2



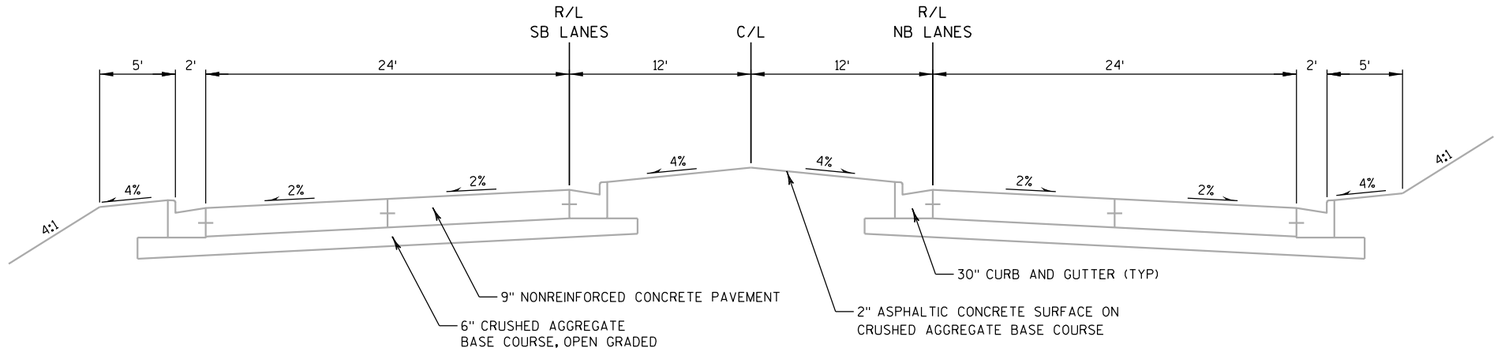
TYPICAL EXISTING SECTION

EAST FRONTAGE ROAD

SOUTH OF STH 20

STA 3852+00 TO STA 3858+17
STA 5859+56 TO STA 5863+15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E



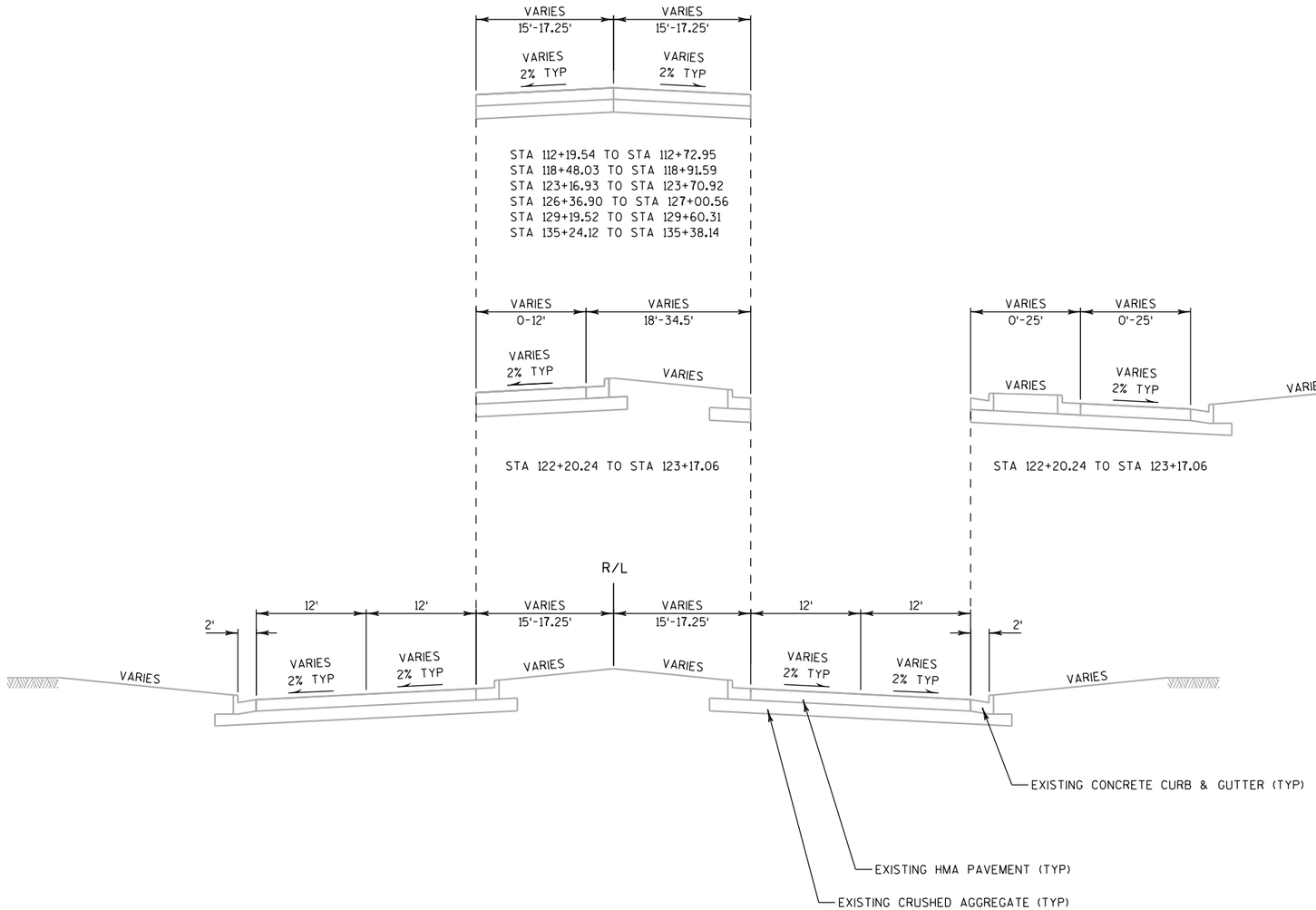
TYPICAL EXISTING SECTION

EAST FRONTAGE ROAD

STA 3853+00 TO STA 3857+70
STA 5859+56 TO STA 5863+15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2



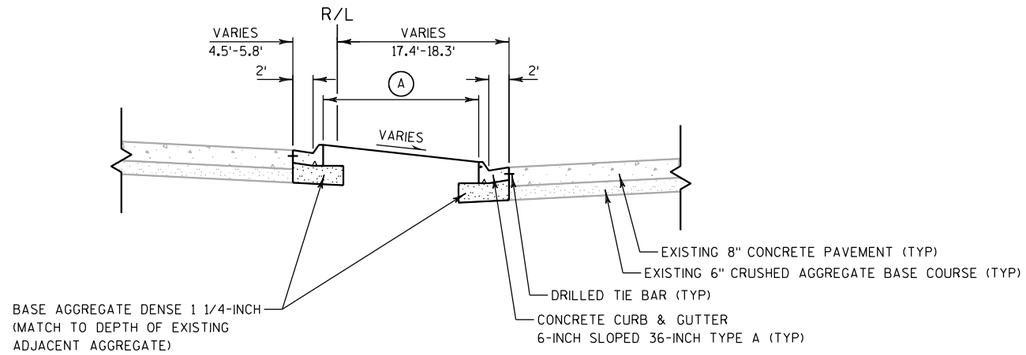
TYPICAL EXISTING SECTION

INTERNATIONAL DRIVE

STA 111+75 TO STA 135+38.14

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

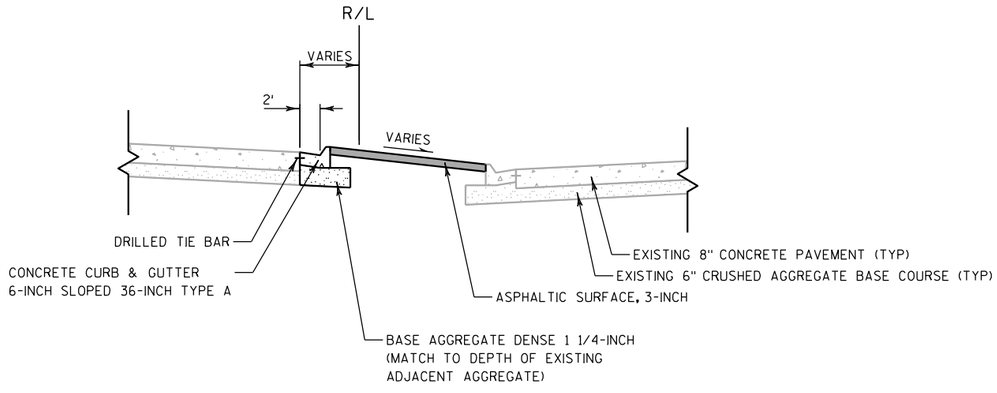
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TYPICAL FINISHED SECTION

STH 20

STA 263+15.59 TO STA 265+06.61



TYPICAL FINISHED SECTION

STH 20

STA 260+63.47 TO STA 262+72.19

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

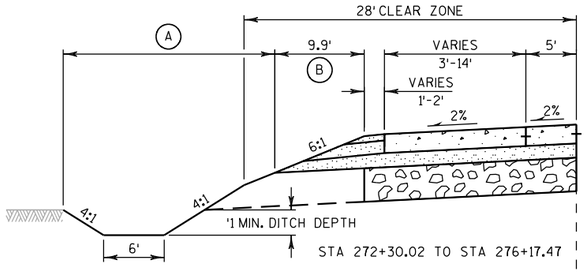
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

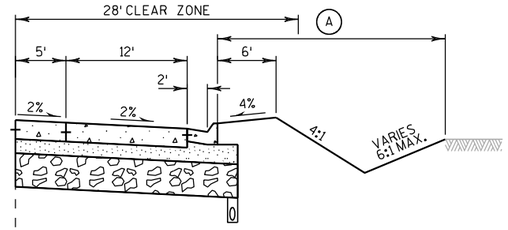
X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

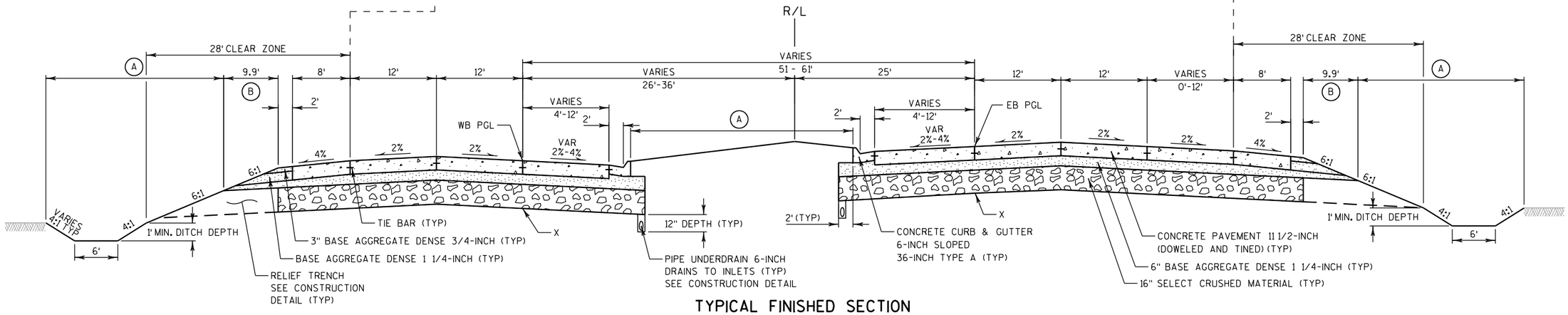
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WISDOT/CADDS SHEET 42



STA 272+30.02 TO STA 276+17.47



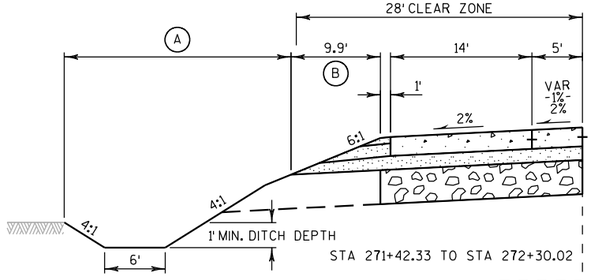
STA 278+96.55 TO STA 279+30.26



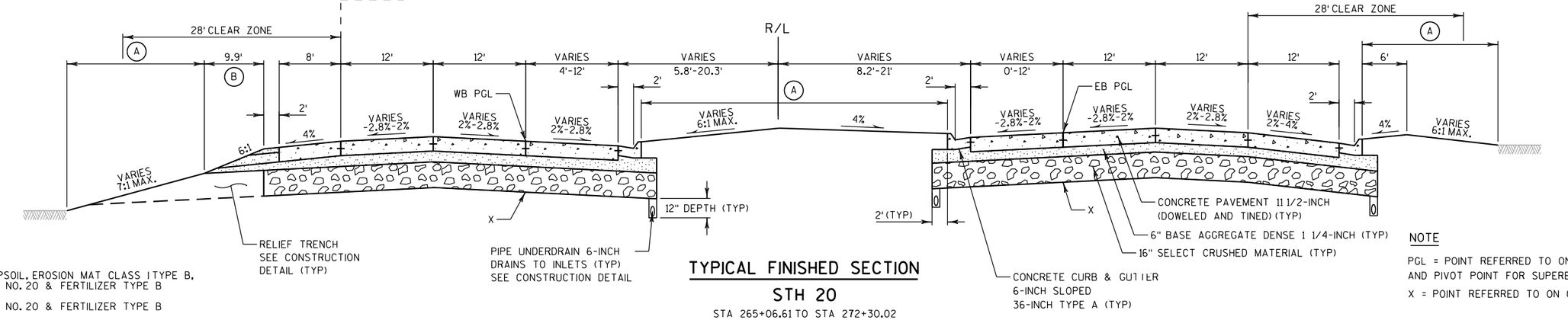
TYPICAL FINISHED SECTION

STH 20

STA 272+30.02 TO STA 279+30.26



STA 271+42.33 TO STA 272+30.02



TYPICAL FINISHED SECTION

STH 20

STA 265+06.61 TO STA 272+30.02

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

NOTE

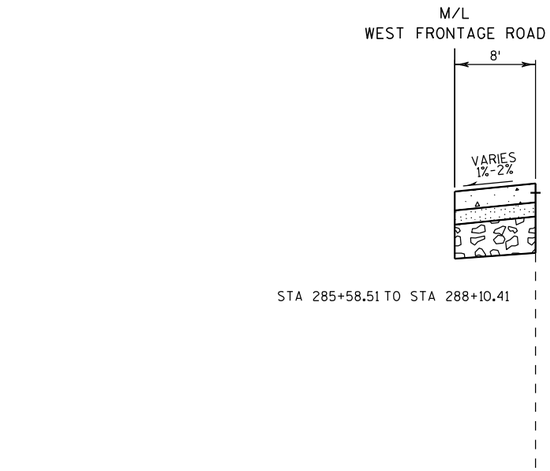
PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

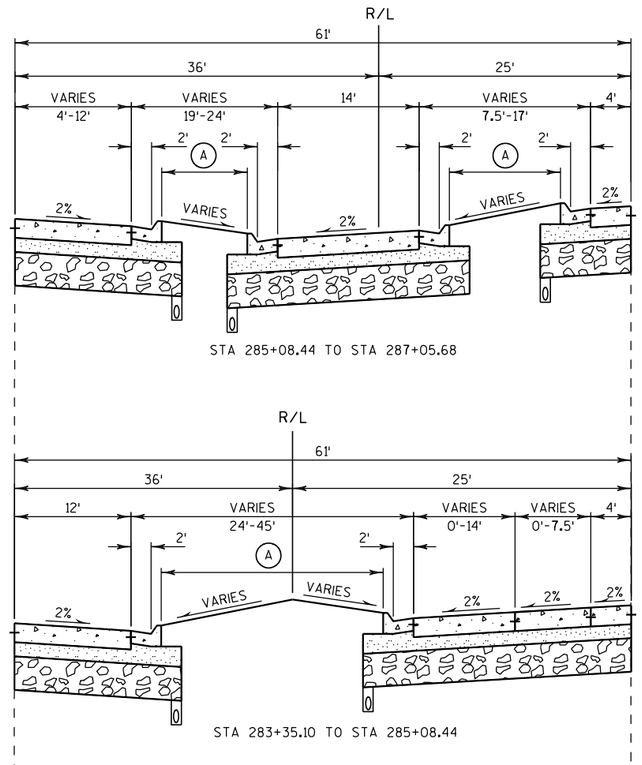
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\020401_ts.dgn PLOT DATE : 12-DEC-2019 02:30 PLOT BY : mscdls PLOT NAME : 020401_ts1 PLOT SCALE : 15:1

2

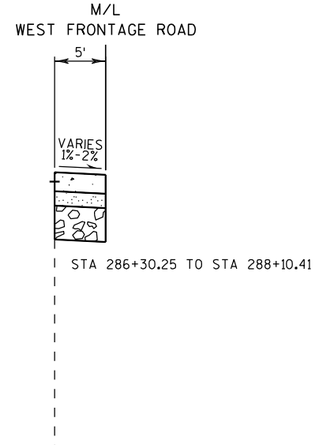


STA 285+58.51 TO STA 288+10.41

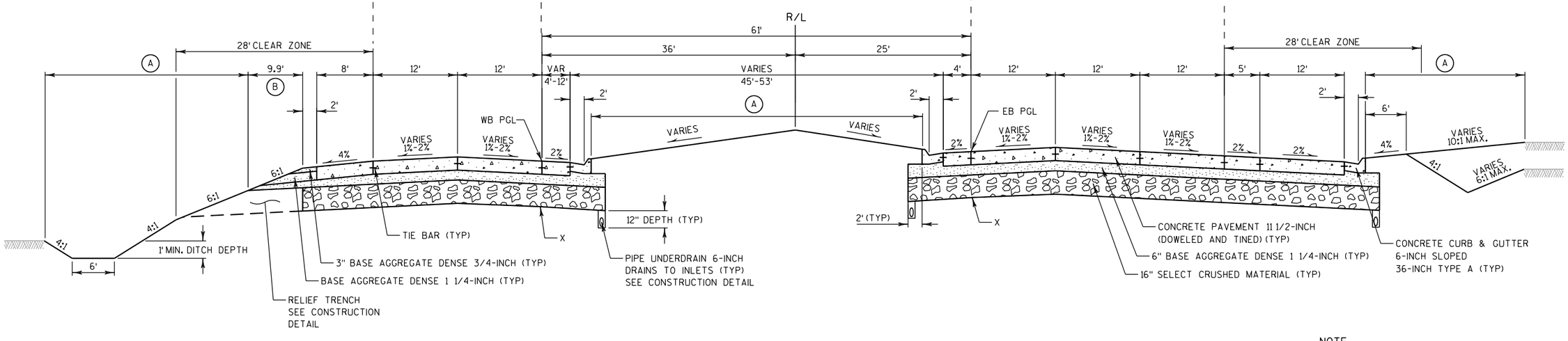


STA 285+08.44 TO STA 287+05.68

STA 283+35.10 TO STA 285+08.44



STA 286+30.25 TO STA 288+10.41



LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

TYPICAL FINISHED SECTION

STH 20

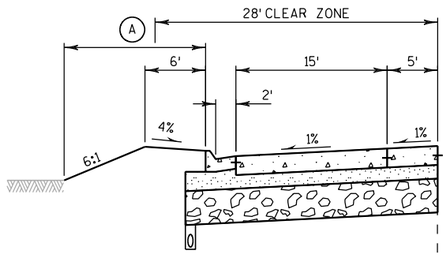
STA 279+30.26 TO STA 288+10.41

NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

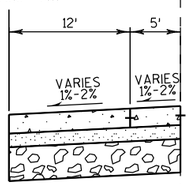
X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

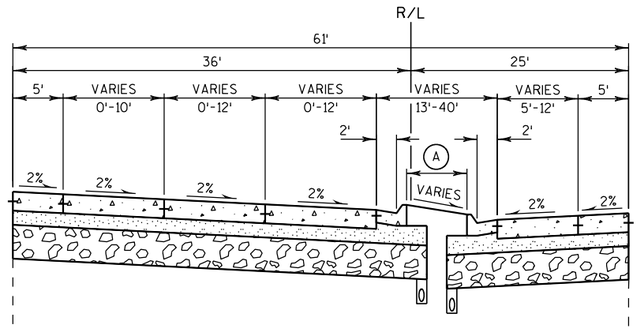


STA 292+25.85 TO STA 293+05.28

M/L
WEST FRONTAGE ROAD
OR RAMP NW

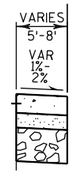


STA 288+10.41 TO STA 288+77.63
STA 290+66.05 TO STA 292+25.85

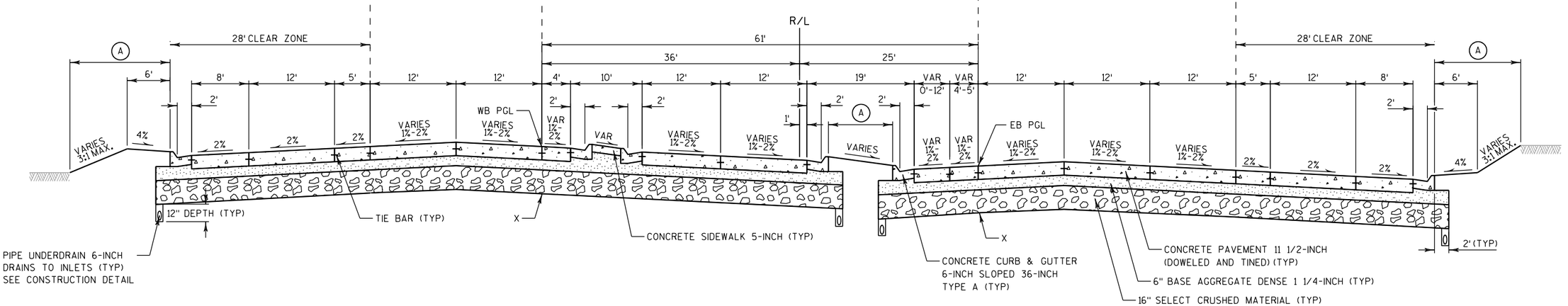


STA 289+22.45 TO STA 291+96.53

M/L
WEST FRONTAGE ROAD
OR RAMP SW



STA 288+10.41 TO STA 288+84.23
STA 291+67.81 TO STA 293+05.28



LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

TYPICAL FINISHED SECTION

STH 20

STA 288+10.41 TO STA 293+05.28

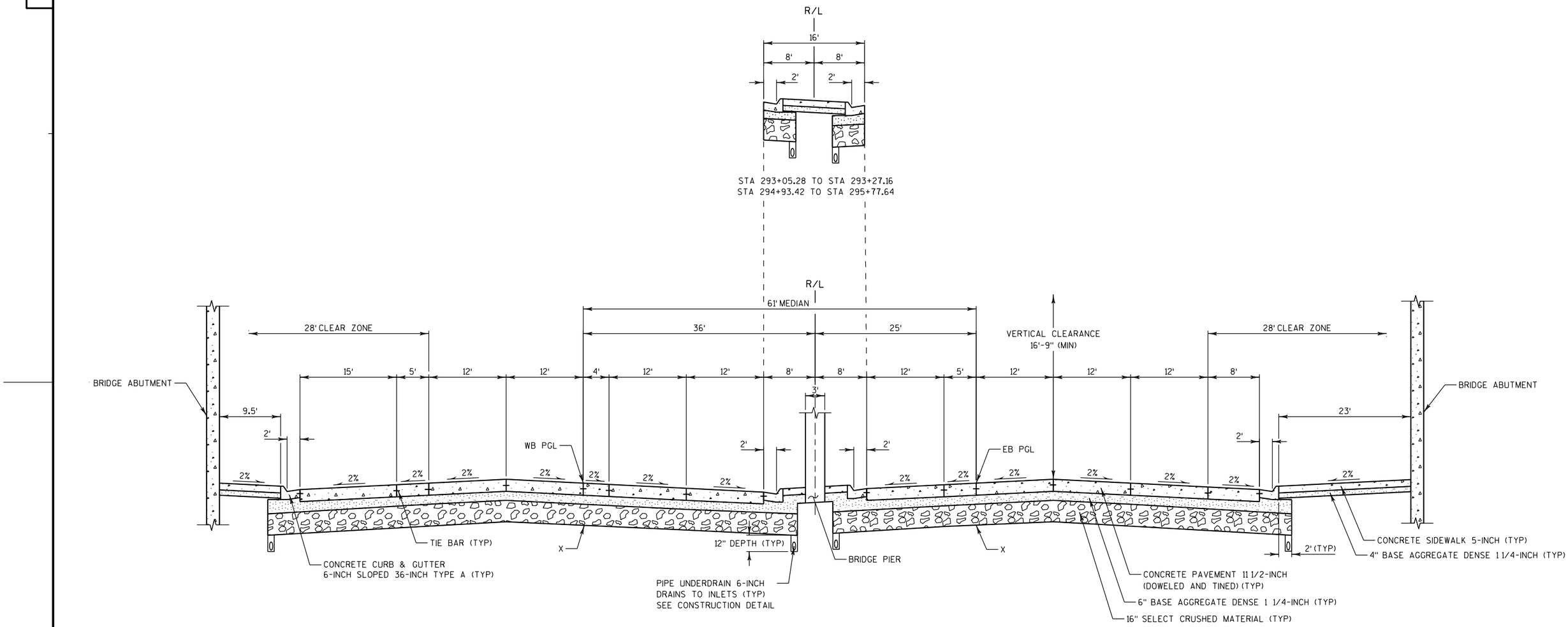
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2



TYPICAL FINISHED SECTION

STH 20

STA 293+05.28 TO STA 295+77.64

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

NOTE

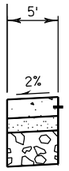
PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

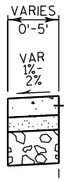
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M/L
EAST FRONTAGE ROAD

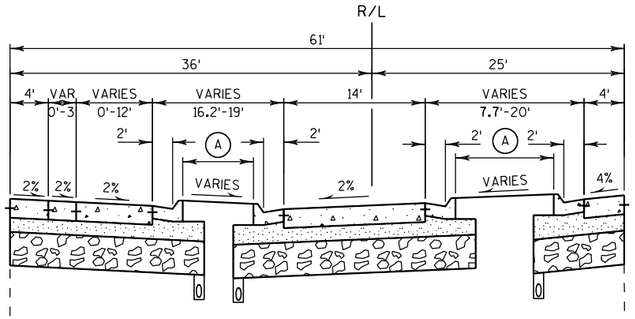


STA 301+78.28 TO STA 302+33.15

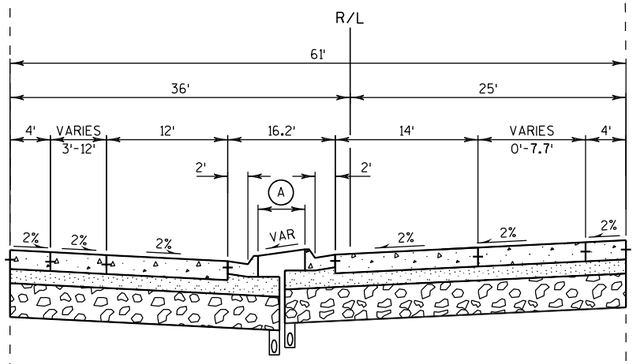
M/L
RAMP NE



STA 295+92.43 TO STA 297+67.46

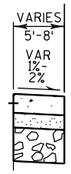


STA 299+44.29 TO STA 302+33.15

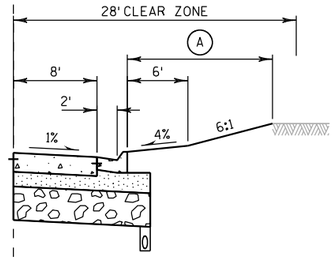


STA 298+31.90 TO STA 299+44.29

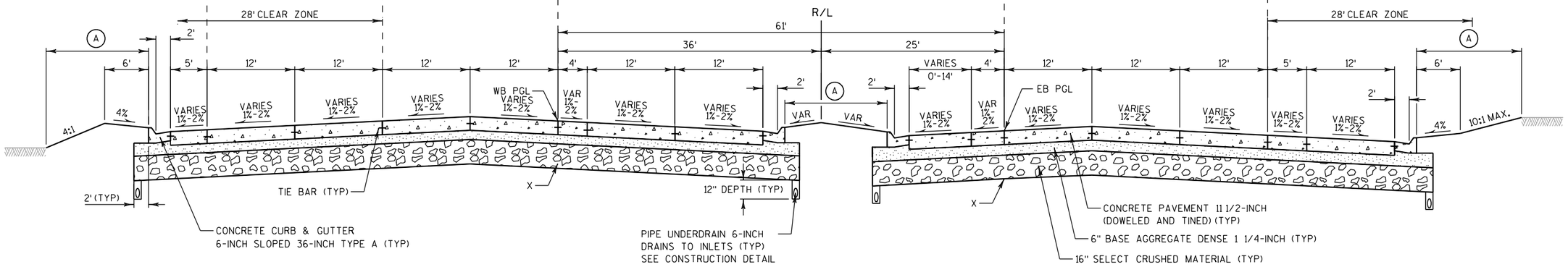
M/L
RAMP SE OR
EAST FRONTAGE ROAD



STA 296+15.70 TO STA 298+67.07
STA 301+54.41 TO STA 302+33.15



STA 295+77.64 TO STA 296+15.70



TYPICAL FINISHED SECTION

STH 20

STA 295+77.64 TO STA 302+33.15

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

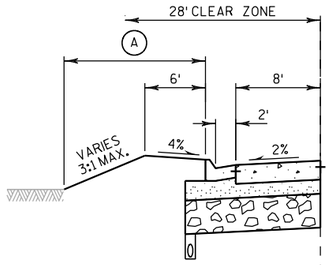
(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

NOTE

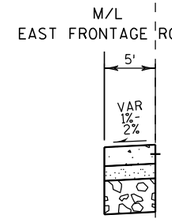
PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

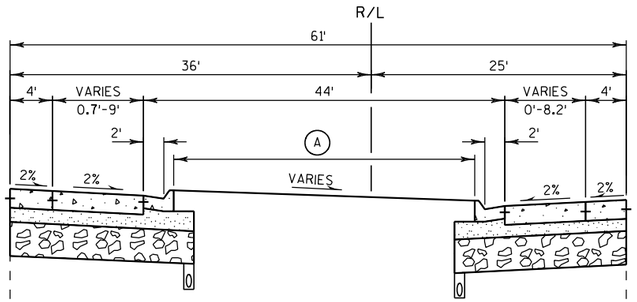
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E



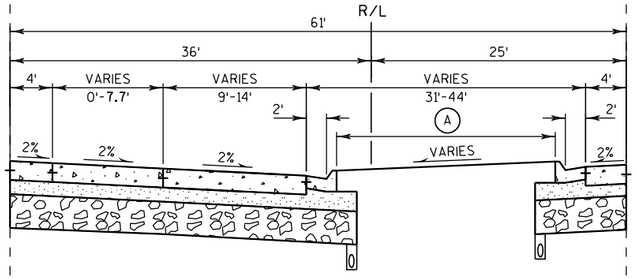
STA 304+24.07 TO STA 306+07.92



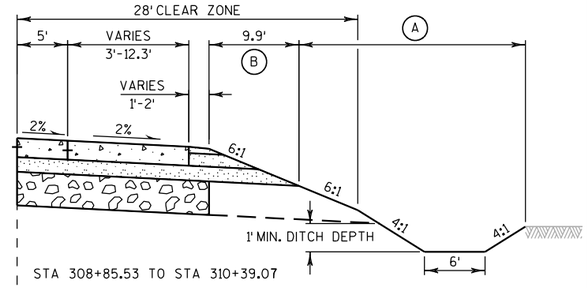
STA 302+33.15 TO STA 304+24.07



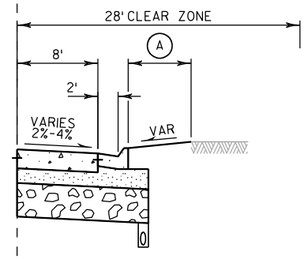
STA 309+35.83 TO STA 310+39.07



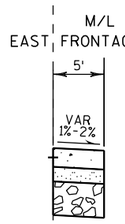
STA 307+76.15 TO STA 309+35.83



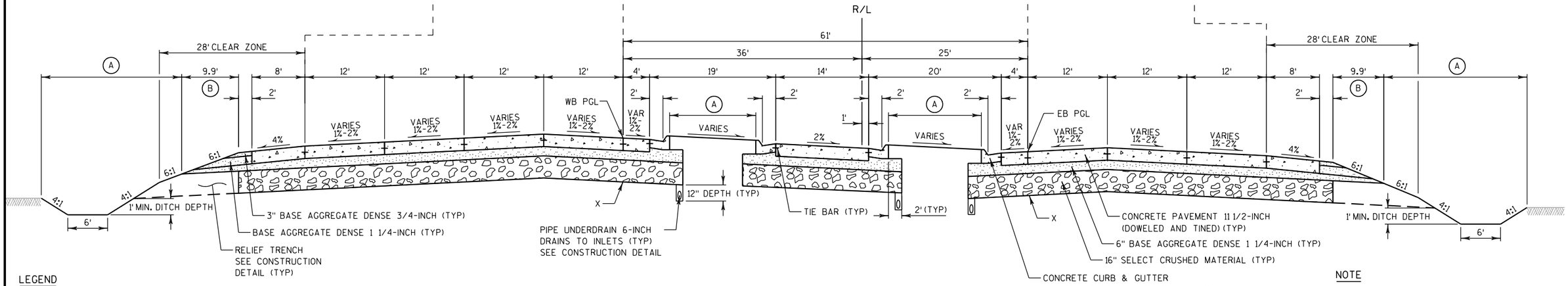
STA 308+85.53 TO STA 310+39.07



STA 304+97.05 TO STA 305+25.00



STA 302+33.15 TO STA 304+97.05



LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

TYPICAL FINISHED SECTION

STH 20

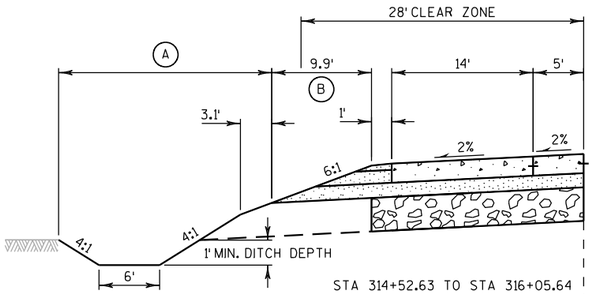
STA 302+33.15 TO STA 310+39.07

NOTE

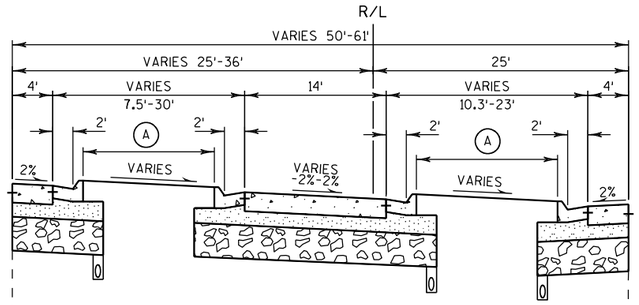
PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

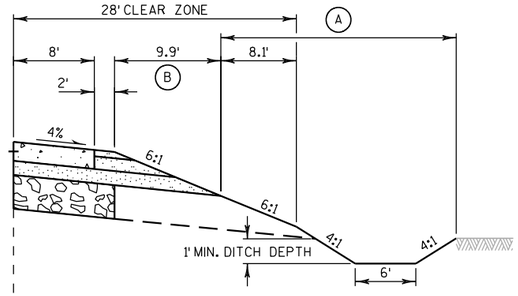
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E



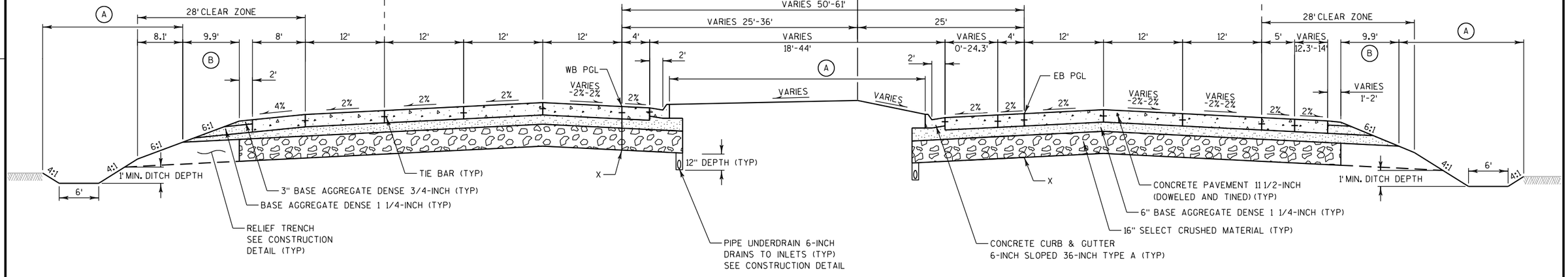
STA 314+52.63 TO STA 316+05.64



STA 315+11.78 TO STA 316+05.64



STA 314+77.82 TO STA 315+93.25



LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

TYPICAL FINISHED SECTION

STH 20

STA 310+39.07 TO STA 316+05.64

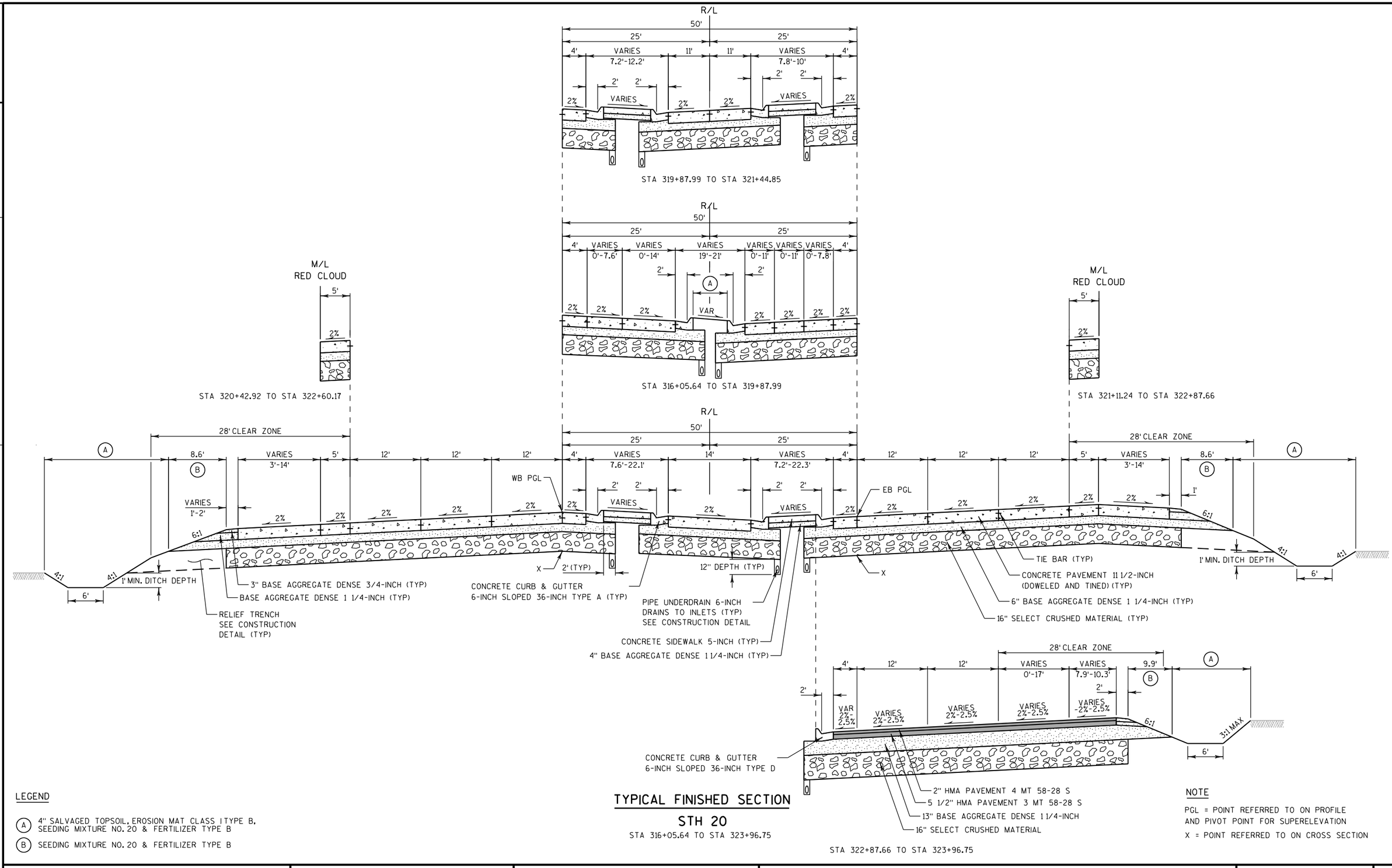
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2



TYPICAL FINISHED SECTION

STH 20

STA 316+05.64 TO STA 323+96.75

STA 322+87.66 TO STA 323+96.75

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

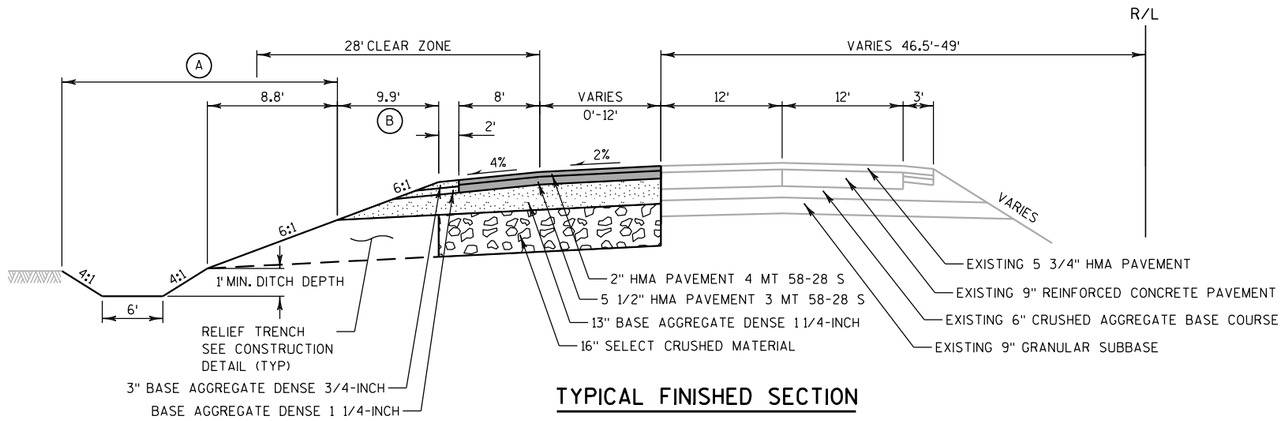
(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

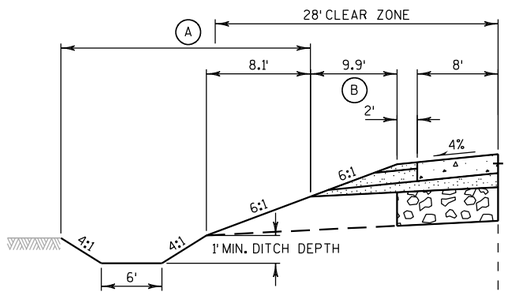
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E



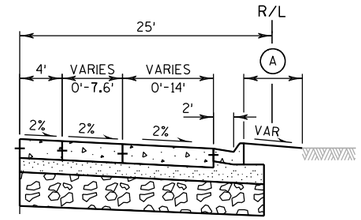
TYPICAL FINISHED SECTION

STH 20

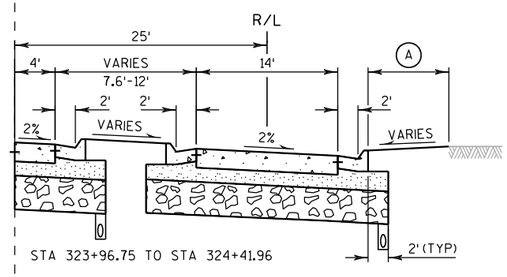
STA 330+30.25 TO STA 336+30.25



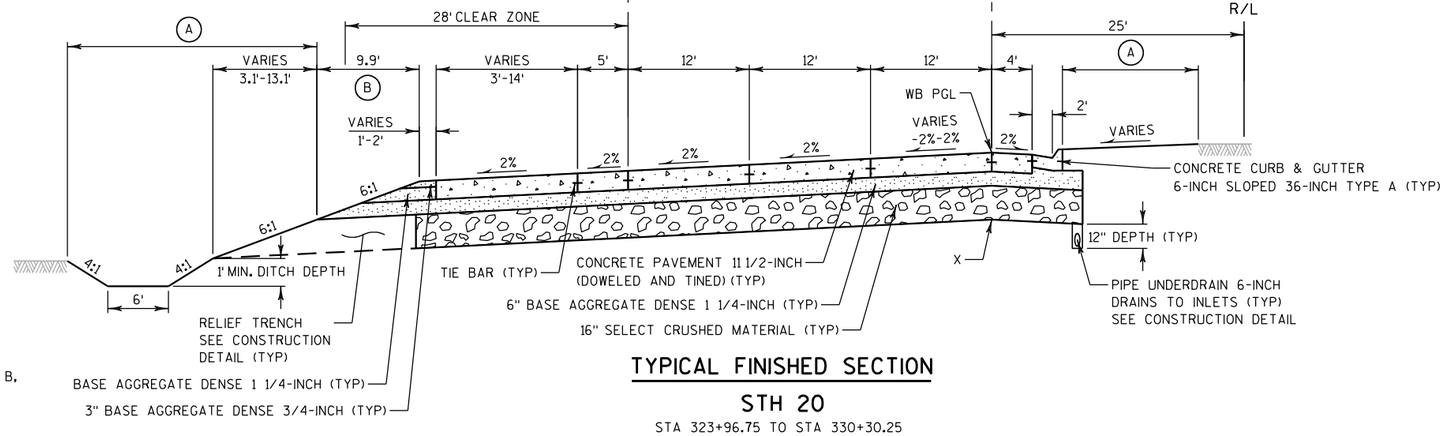
STA 327+92.03 TO STA 330+30.25



STA 324+41.96 TO STA 327+40.45



STA 323+96.75 TO STA 324+41.96



TYPICAL FINISHED SECTION

STH 20

STA 323+96.75 TO STA 330+30.25

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

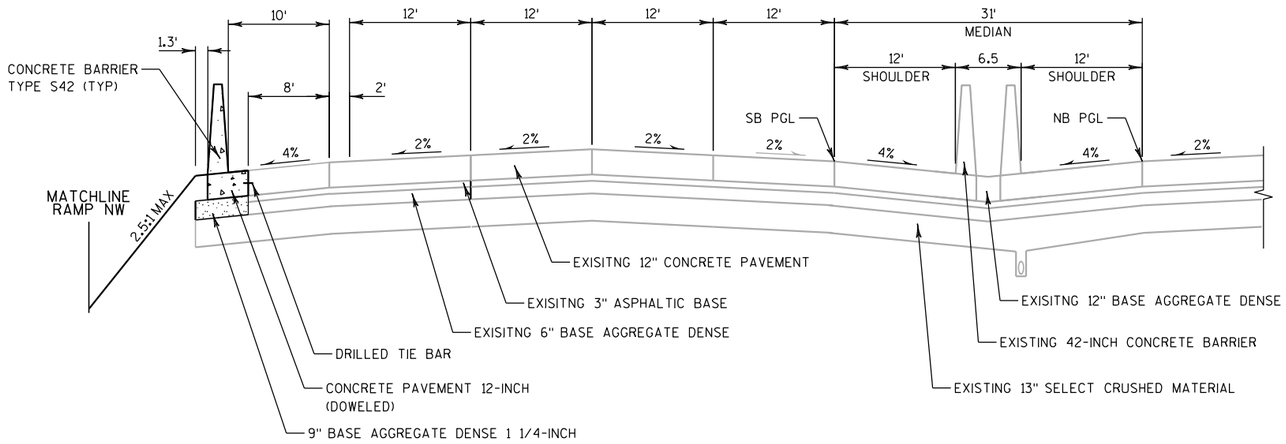
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2

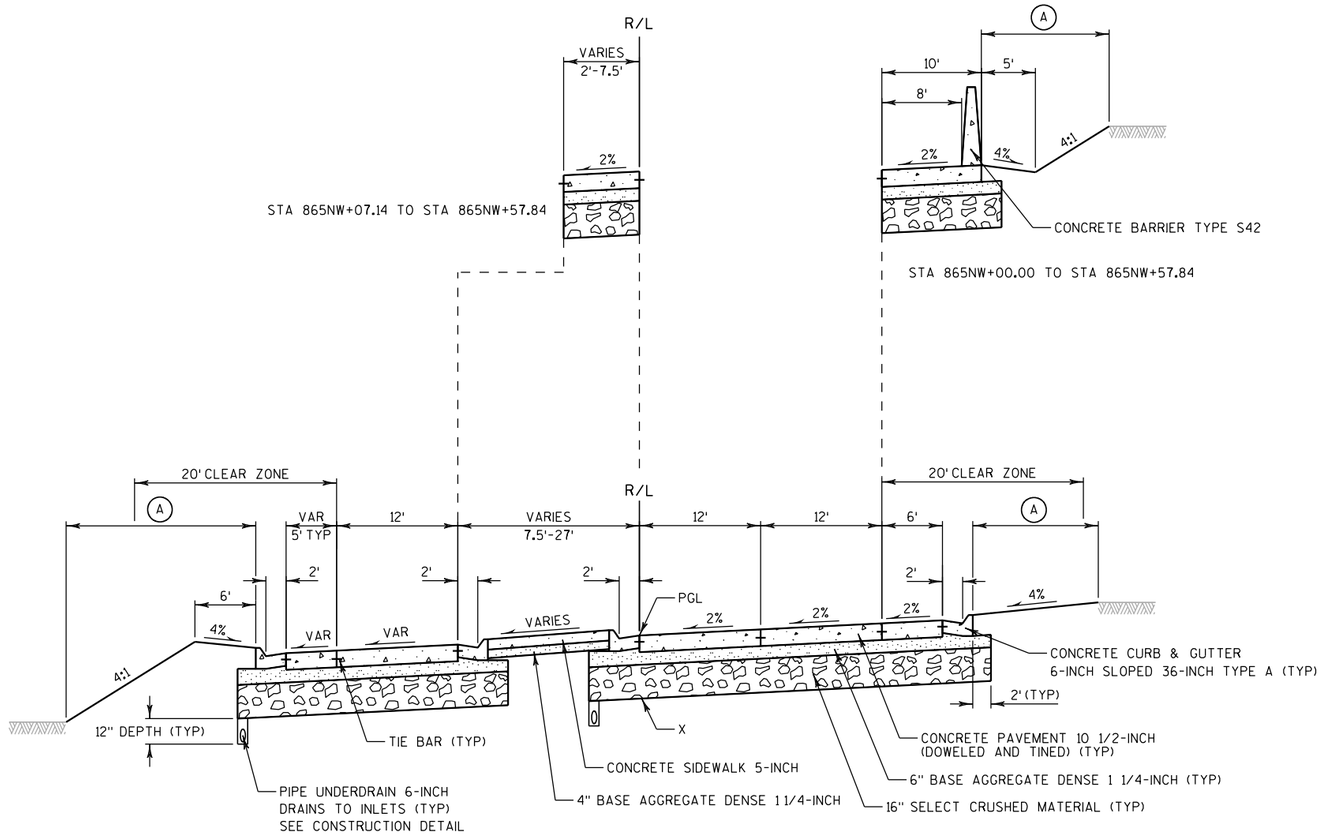


TYPICAL FINISHED SECTION

IH 94 SOUTHBOUND

STA 871+45.00 TO STA 873+54.88

2



TYPICAL FINISHED SECTION

RAMP NW

STA 864NW+00.00 TO STA 865NW+57.84

4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B,
SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

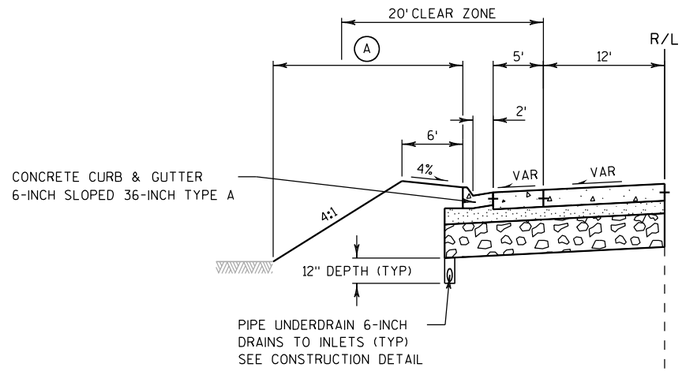
SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

NOTE

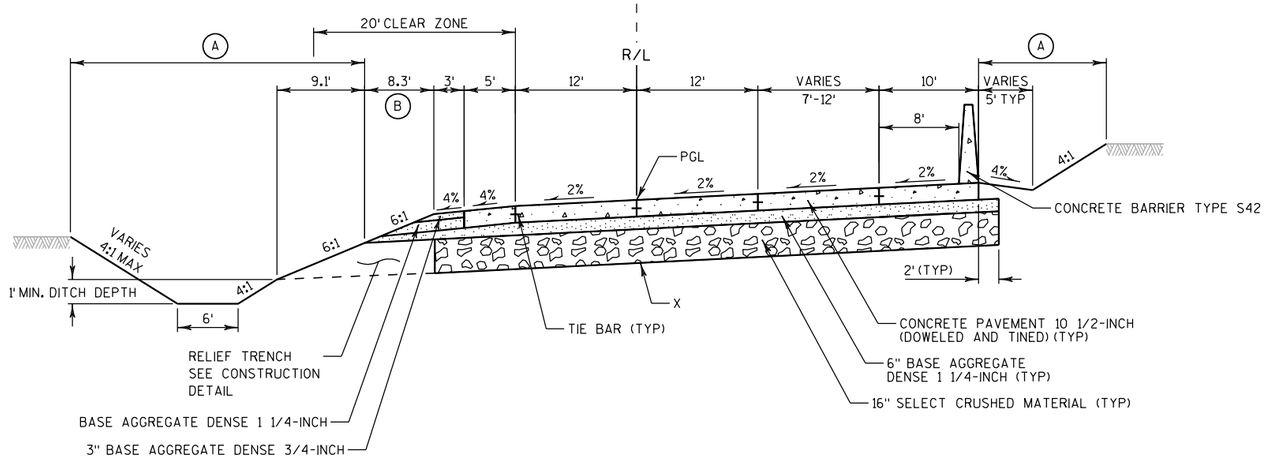
PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

2



STA 865NW+57.84 TO STA 866NW+00.00



TYPICAL FINISHED SECTION

RAMP NW

STA 865NW+57.84 TO STA 868NW+51.27

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

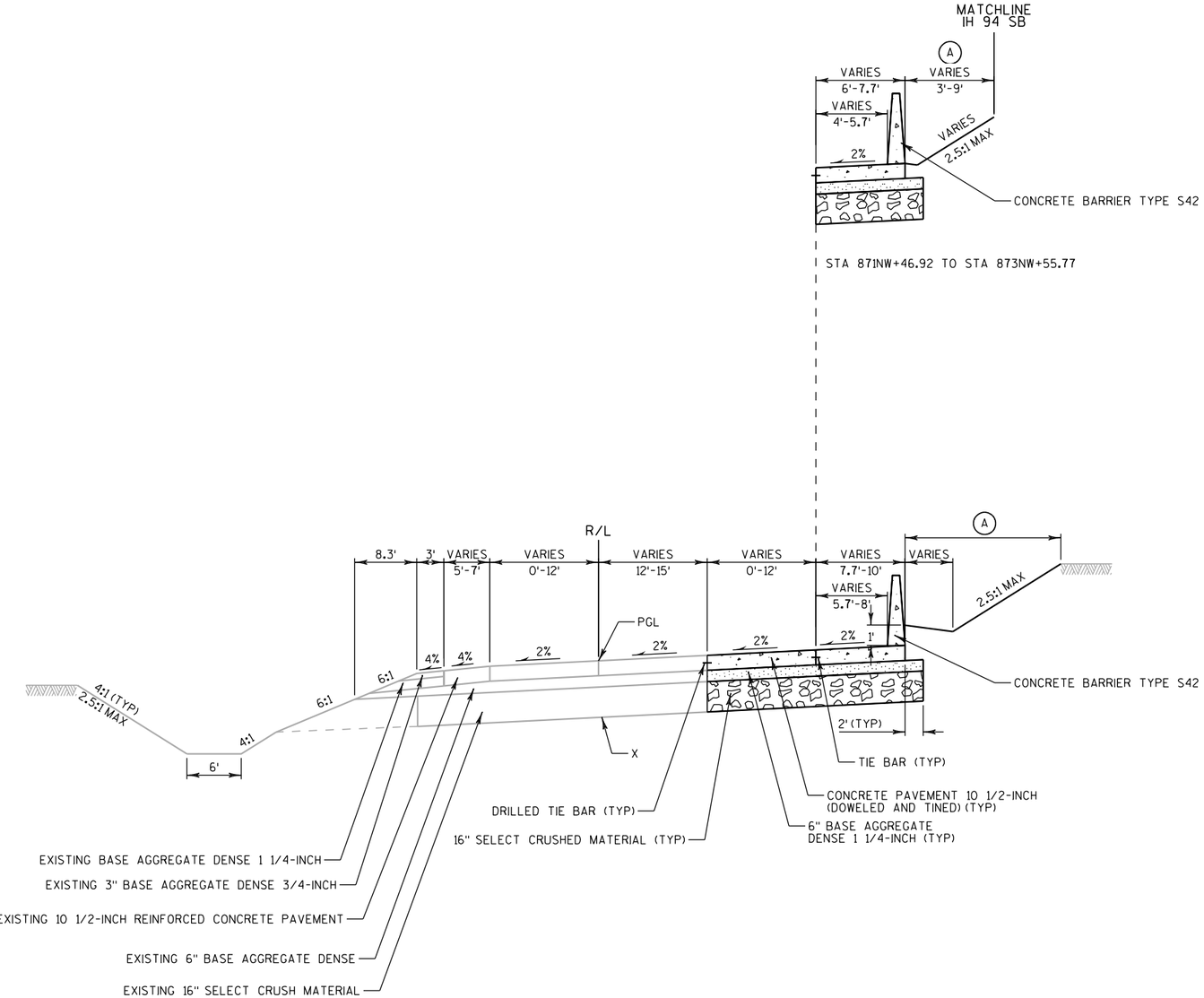
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2



TYPICAL FINISHED SECTION

RAMP NW

STA 868NW+51.27 TO STA 873NW+55.77

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

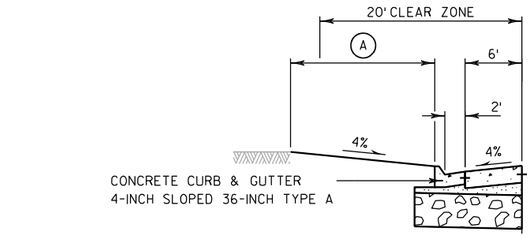
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

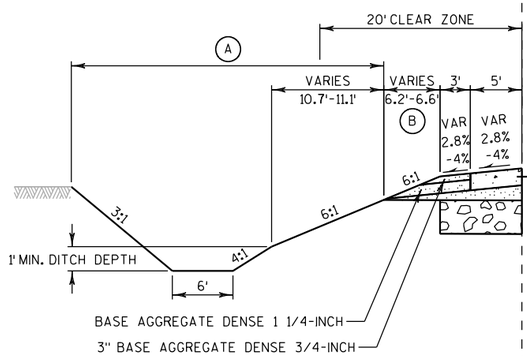
X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

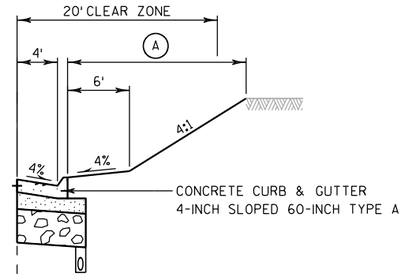
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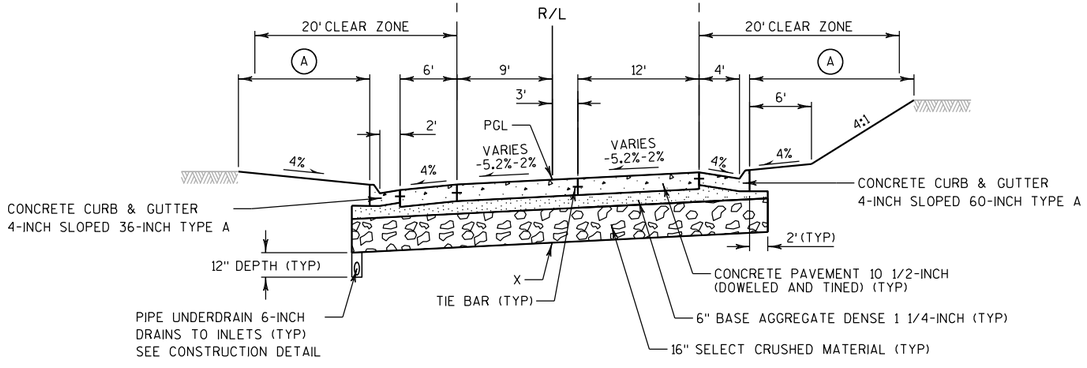
STA 859SW+30.00 TO STA 860SW+00.00



STA 858SW+57.00 TO STA 859SW+30.00



STA 858SW+57.00 TO STA 860SW+00.00



TYPICAL FINISHED SECTION

RAMP SW

STA 858SW+57.00 TO STA 860SW+48.49

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

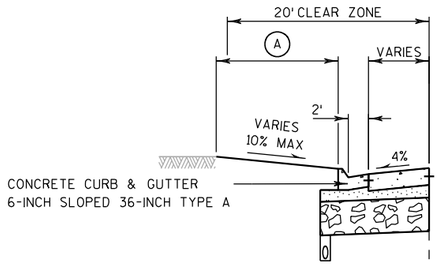
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

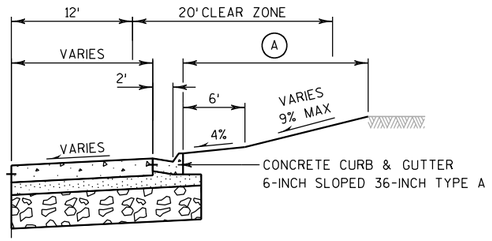
X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

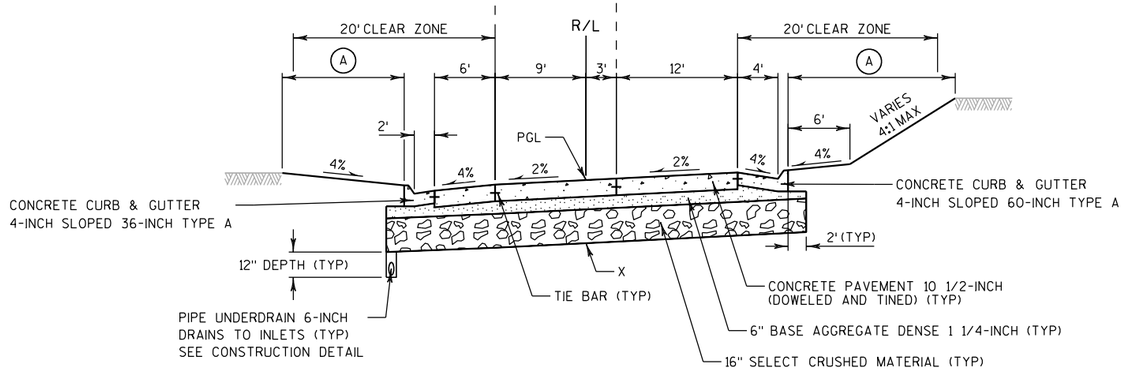
2



STA 861SW+39.55 TO STA 862SW+37.00



STA 861SW+62.86 TO STA 862SW+37.00



LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

TYPICAL FINISHED SECTION

RAMP SW

STA 860SW+48.49 TO STA 862SW+37.00

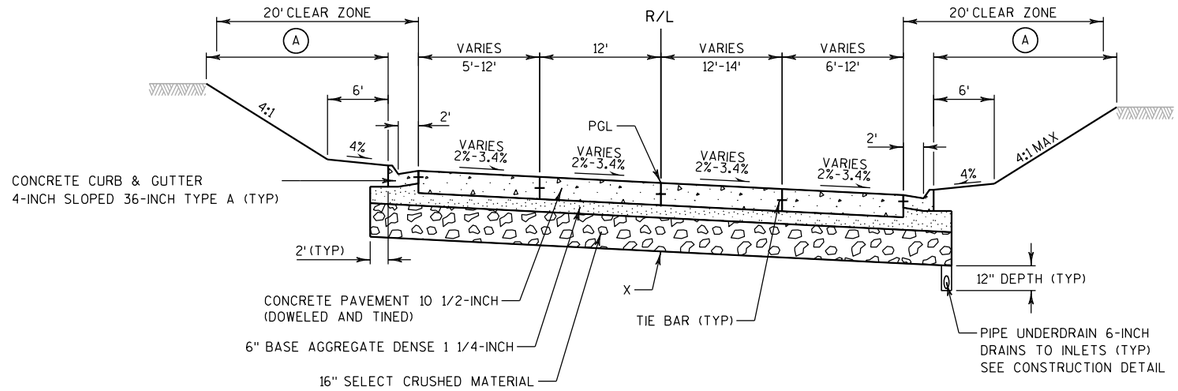
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2



TYPICAL FINISHED SECTION

RAMP SE

STA 855SE+90.00 TO STA 858SE+87.72

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

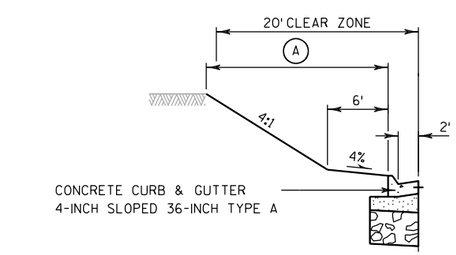
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

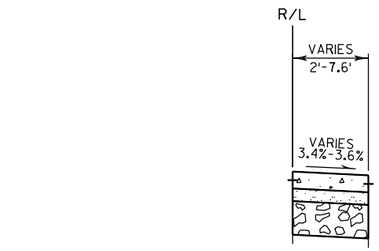
X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

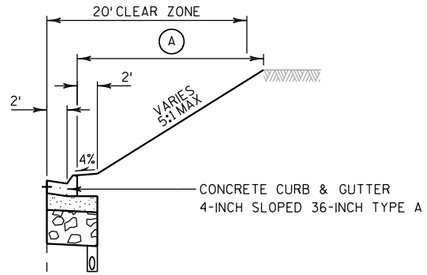
2



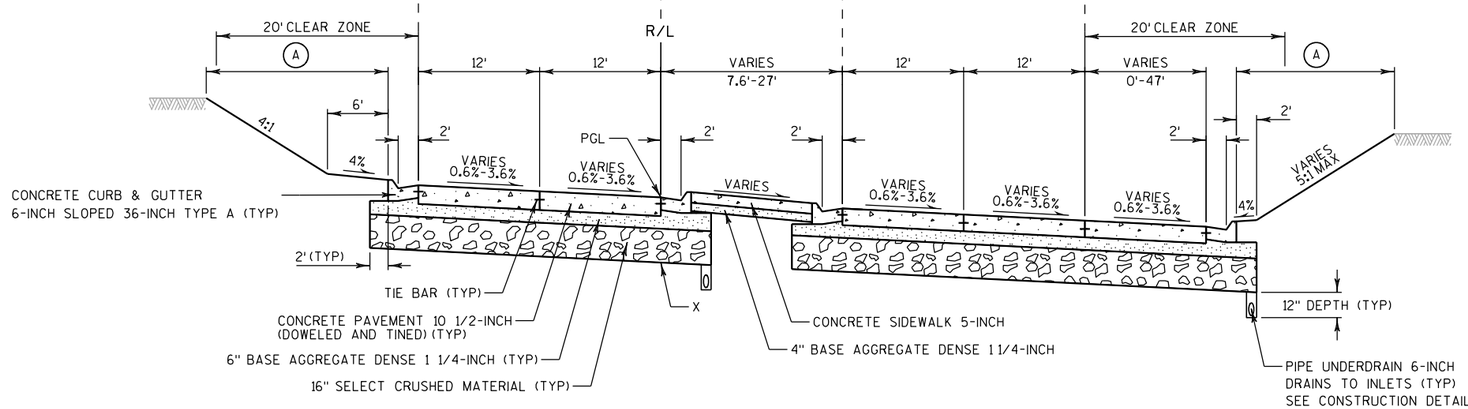
STA 858SE+87.72 TO STA 859SE+50.35



STA 858SE+87.72 TO STA 859SE+42.31



STA 858SE+87.72 TO STA 859SE+46.56



TYPICAL FINISHED SECTION

RAMP SE

STA 858SE+87.72 TO STA 860SE+87.00

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

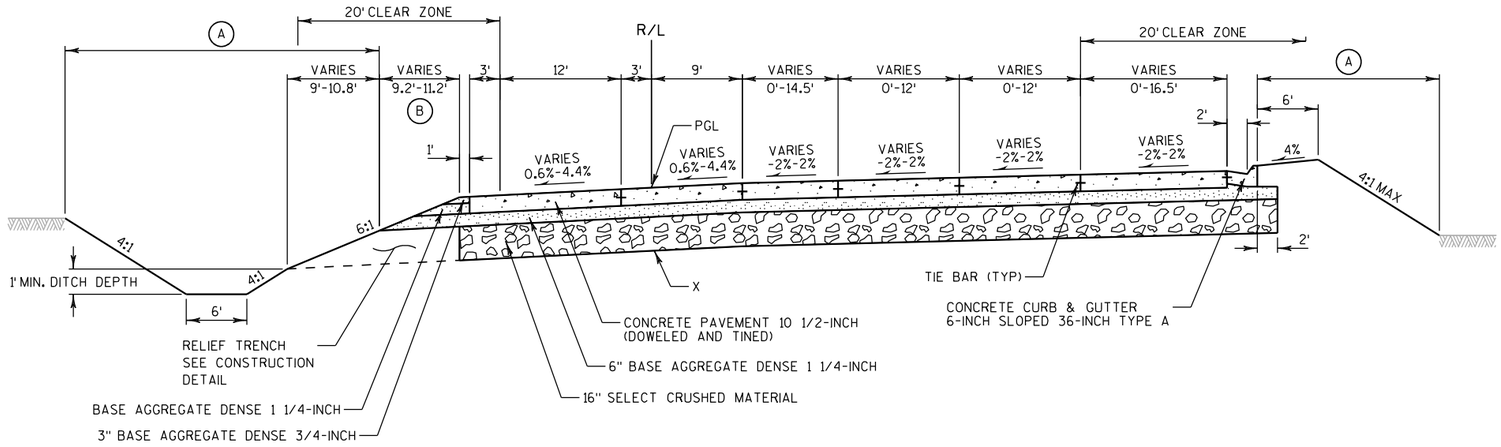
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2



TYPICAL FINISHED SECTION

RAMP NE

STA 861NE+91.00 TO STA 863NE+06.38

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

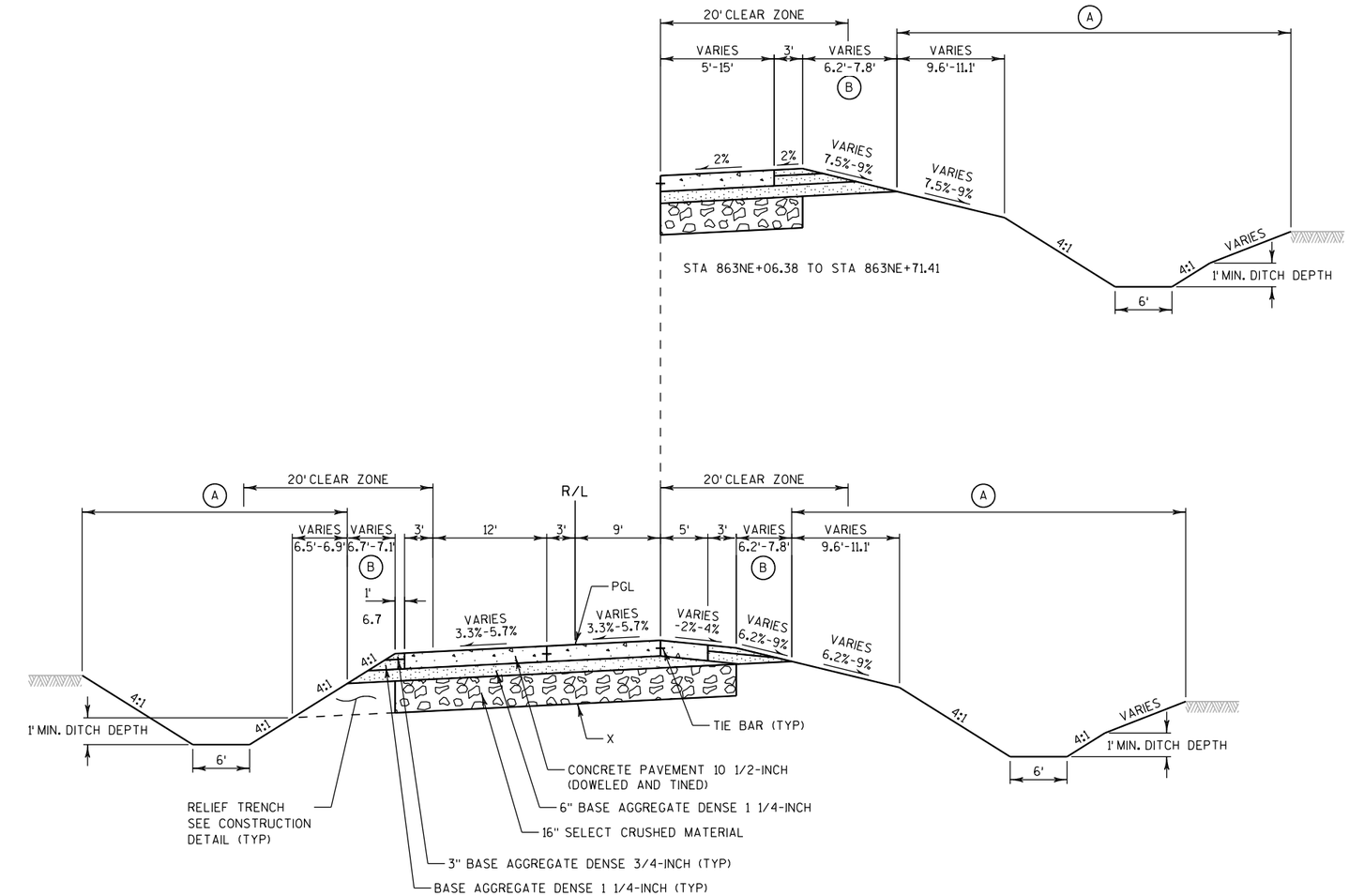
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2



TYPICAL FINISHED SECTION

RAMP NE

STA 863NE+06.38 TO STA 867NE+00.00

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

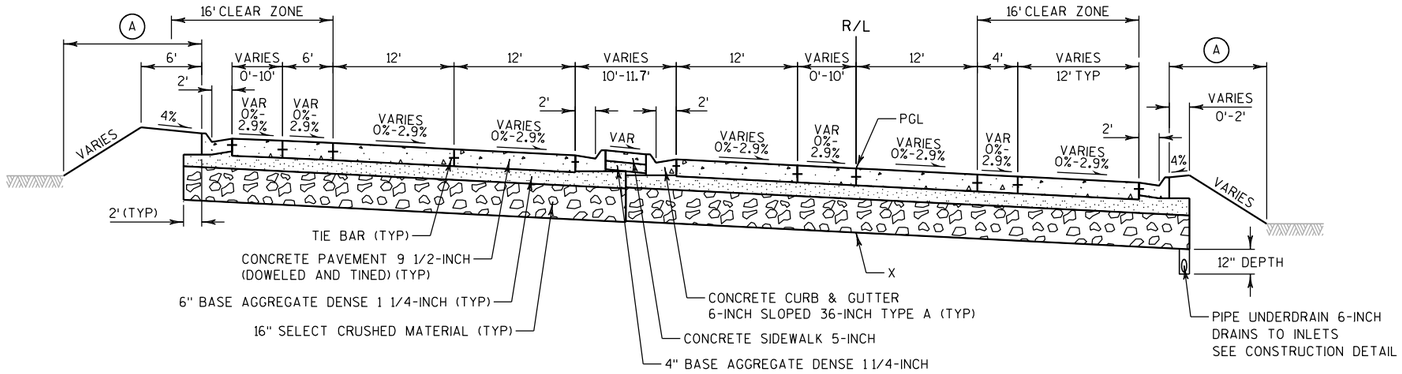
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

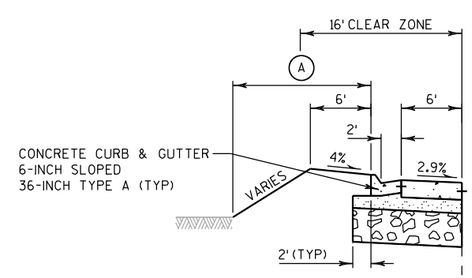
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2

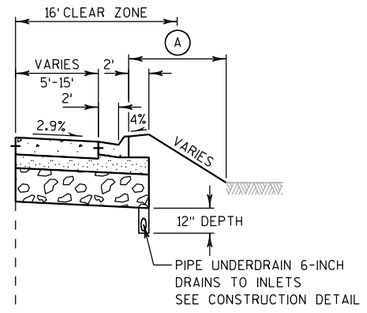


TYPICAL FINISHED SECTION
WEST FRONTAGE ROAD

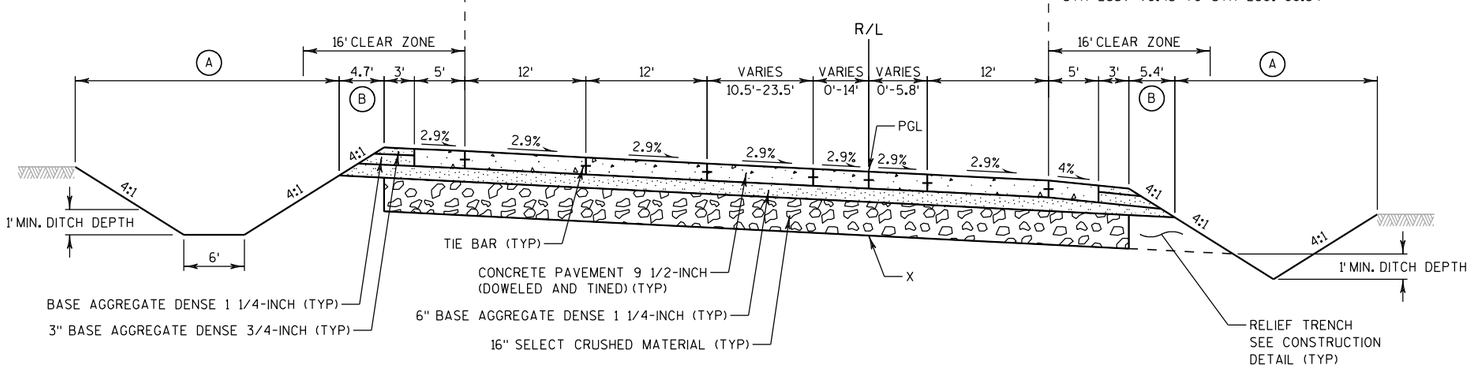
STA 2861+66.84 TO STA 2864+57.97



STA 2860+68.72 TO STA 2861+66.84



STA 2857+79.43 TO STA 2861+66.84



TYPICAL FINISHED SECTION
WEST FRONTAGE ROAD

STA 2857+00.00 TO STA 2861+66.84

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

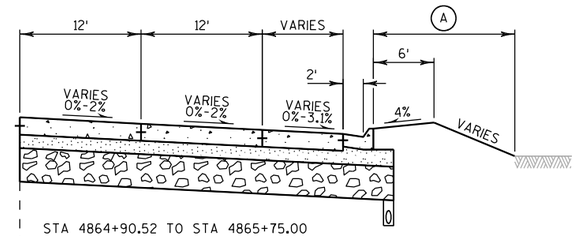
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

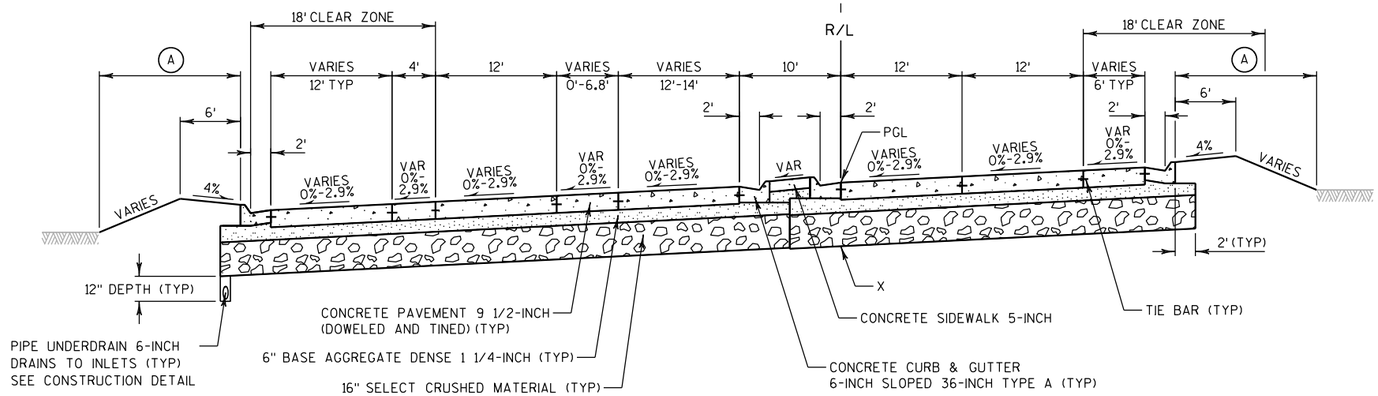
X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2



STA 4864+90.52 TO STA 4865+75.00



LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

TYPICAL FINISHED SECTION
WEST FRONTAGE ROAD

STA 4864+90.52 TO STA 4866+24.35

NOTE

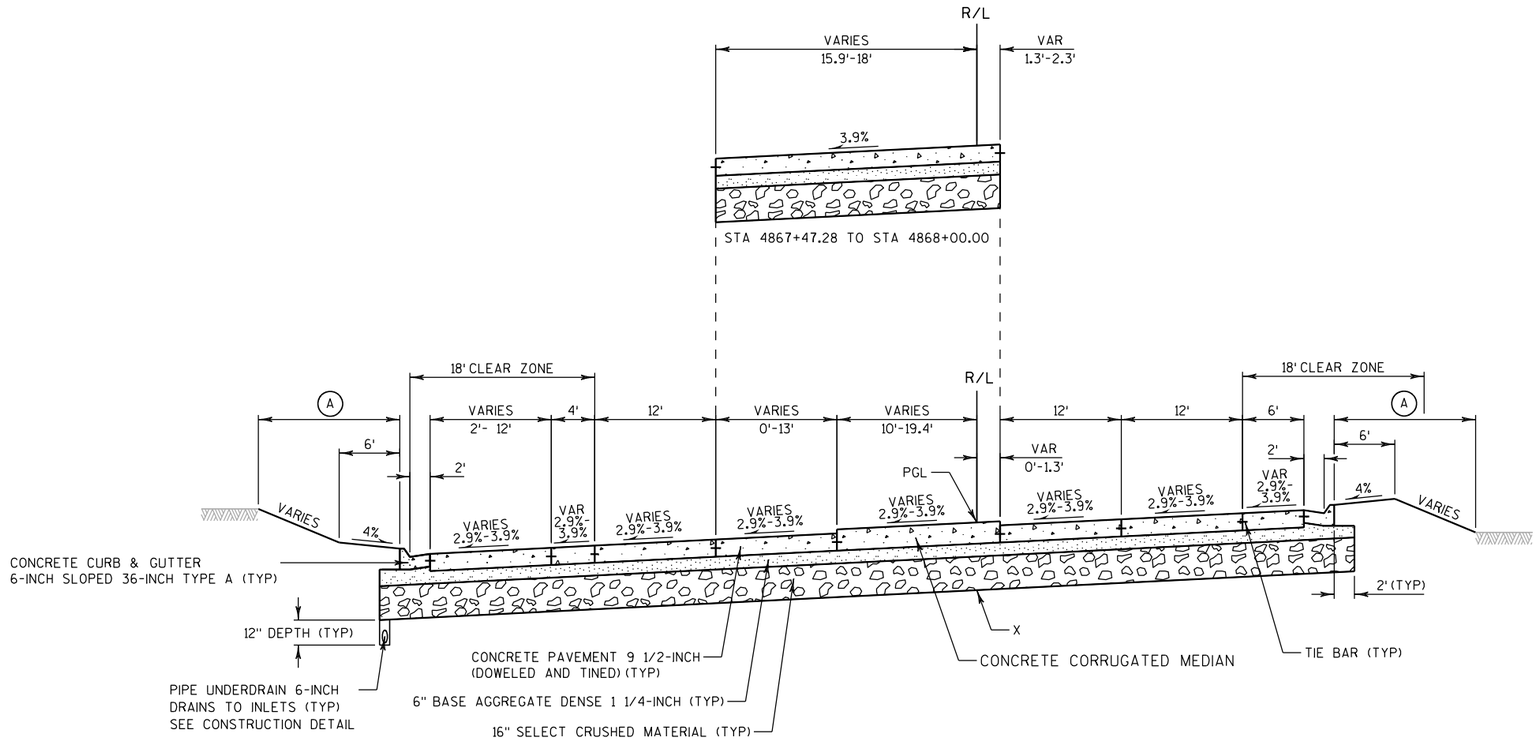
PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\020401_ts.dgn PLOT DATE : 12-DEC-2019 02:30 PLOT BY : mscd1s PLOT NAME : 020401_ts21 PLOT SCALE : 15:1

2



TYPICAL FINISHED SECTION

WEST FRONTAGE ROAD

STA 4866+24.35 TO STA 4868+00.00

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

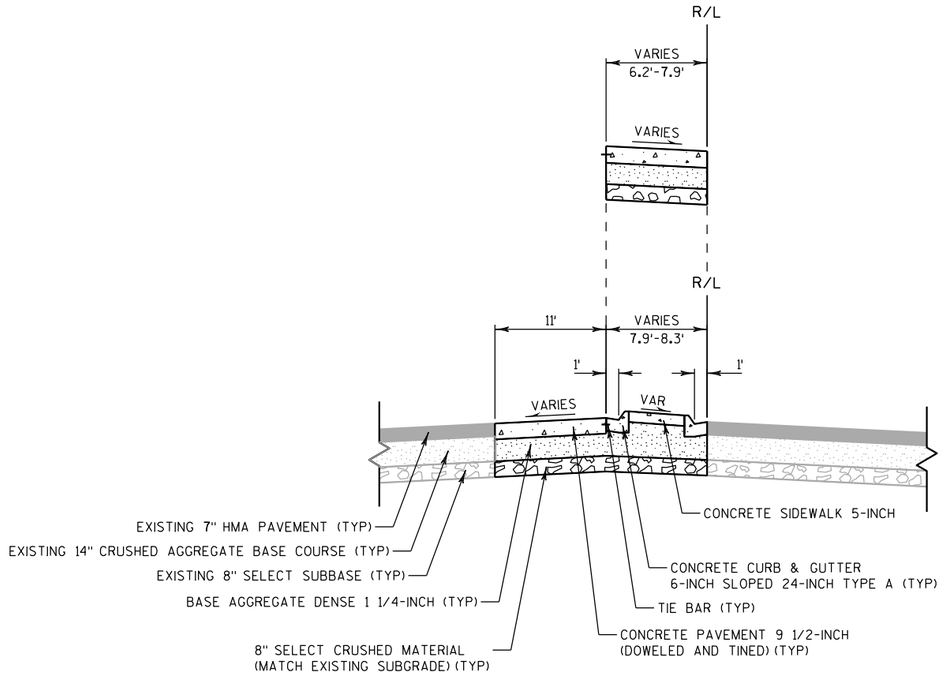
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

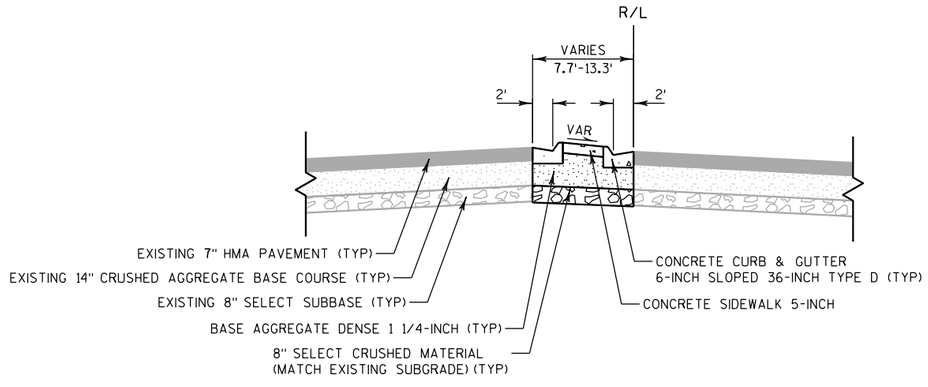
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2



TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD

STA 3851+70.03 TO STA 3852+25.00



TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD

STA 3849+38.90 TO STA 3850+96.26

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

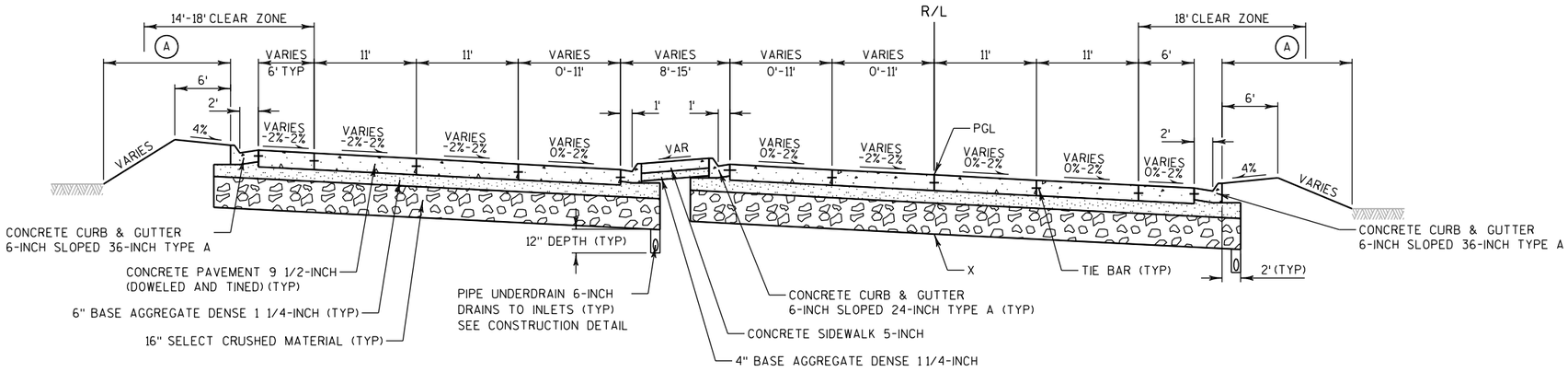
(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

NOTE

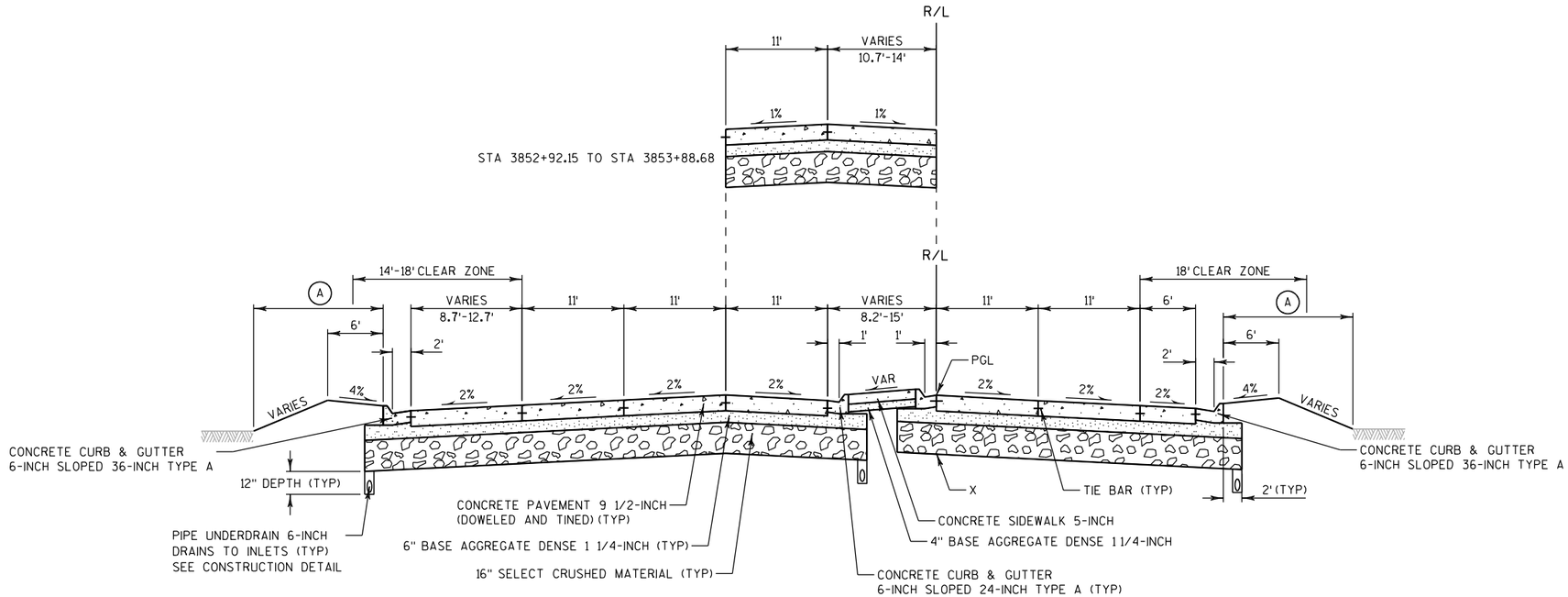
PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E



TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD
STA 3854+20.83 TO STA 3858+30.00



TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD
STA 3852+25.00 TO STA 3854+20.83

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

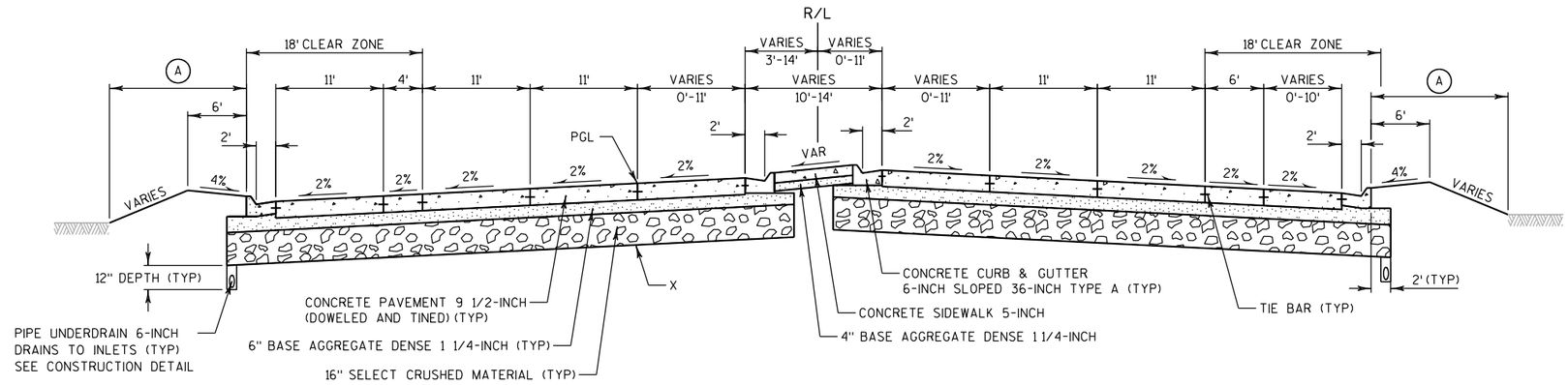
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

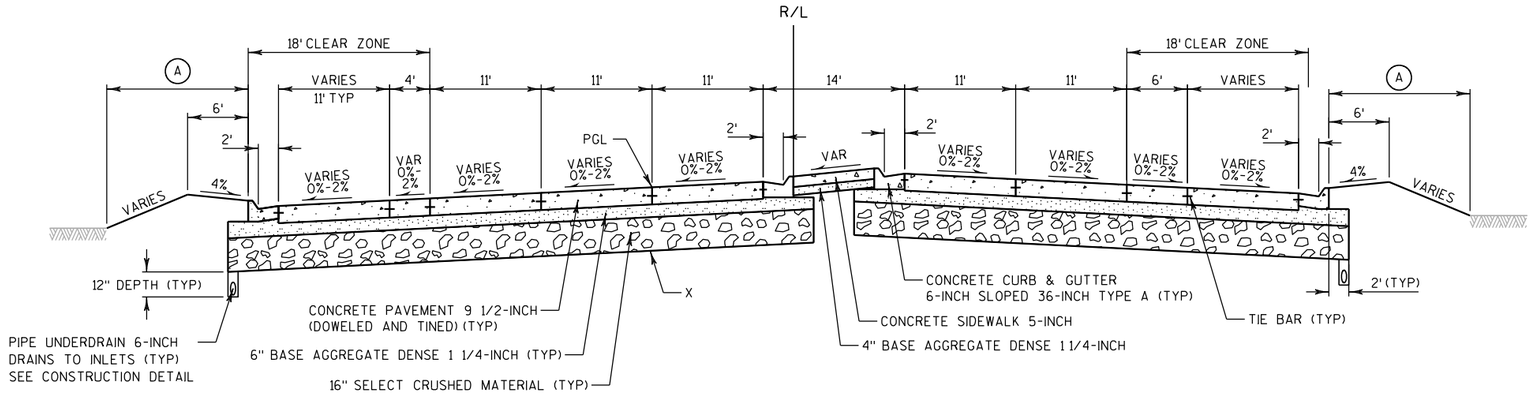
2



TYPICAL FINISHED SECTION

EAST FRONTAGE ROAD

STA 5860+52.81 TO STA 5863+16.29



LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

TYPICAL FINISHED SECTION

EAST FRONTAGE ROAD

STA 5859+70.21 TO STA 5860+52.81

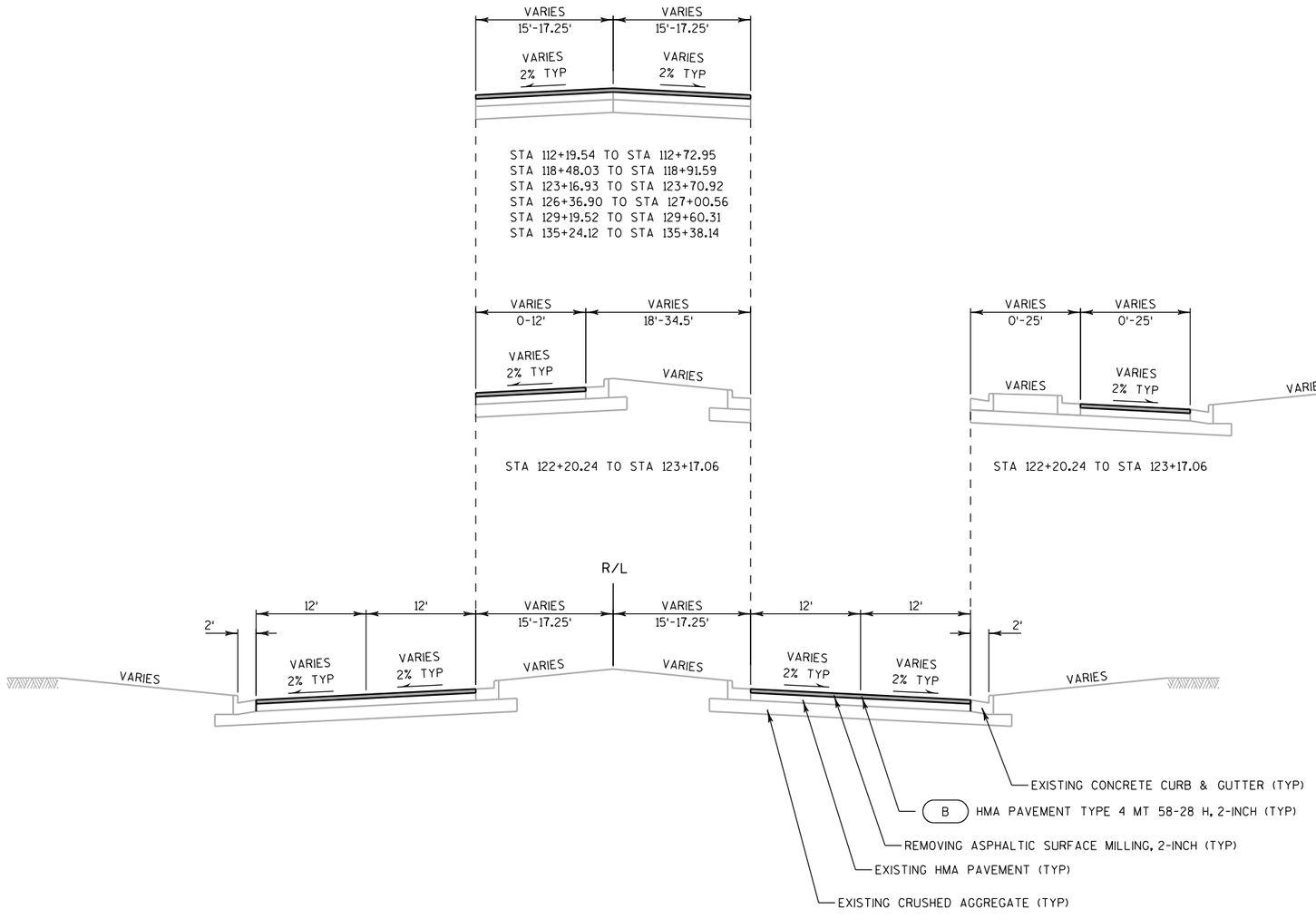
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2



TYPICAL FINISHED SECTION

INTERNATIONAL DRIVE

STA 111+75.00 TO STA 135+38.00

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

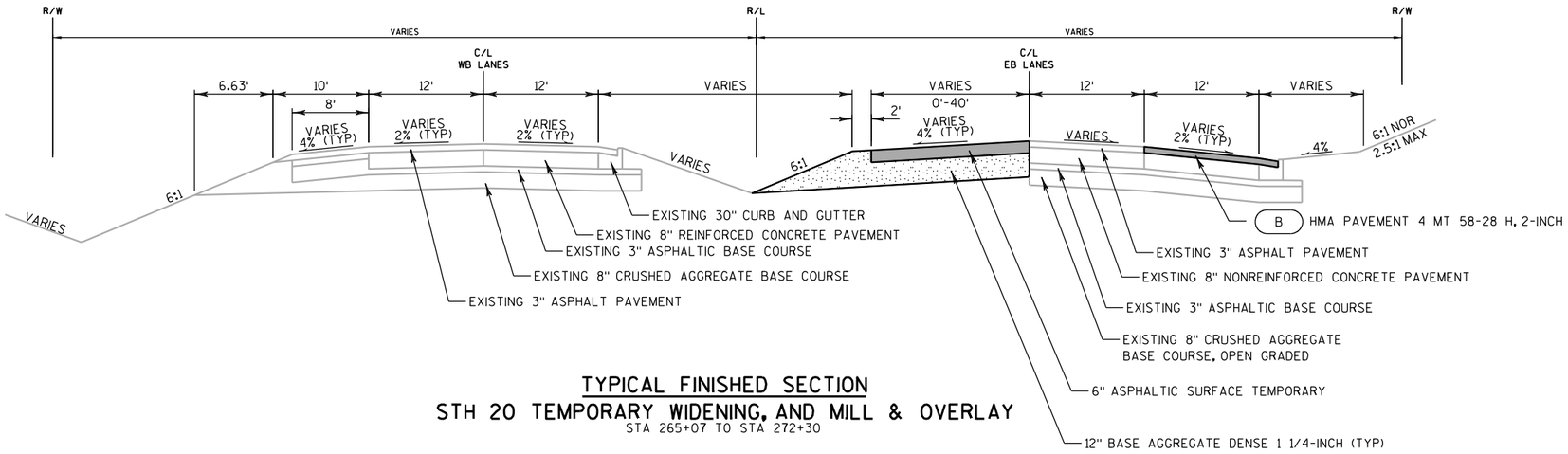
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

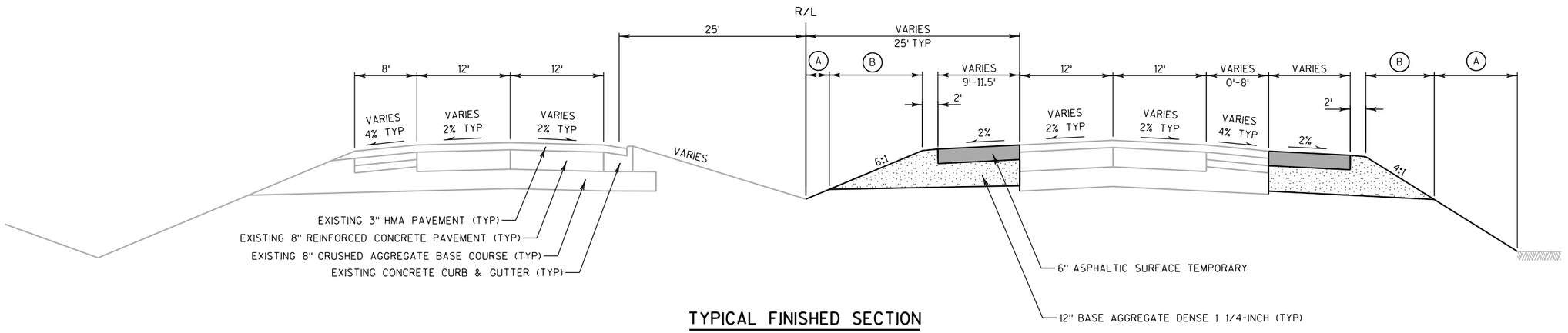
X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2



TYPICAL FINISHED SECTION
STH 20 TEMPORARY WIDENING, AND MILL & OVERLAY
STA 265+07 TO STA 272+30



TYPICAL FINISHED SECTION
STH 20 TEMPORARY WIDENING
STA 272+30 TO STA 339+92

LEGEND

(A) 4" SALVAGED TOPSOIL, EROSION MAT CLASS I TYPE B, SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

(B) SEEDING MIXTURE NO. 20 & FERTILIZER TYPE B

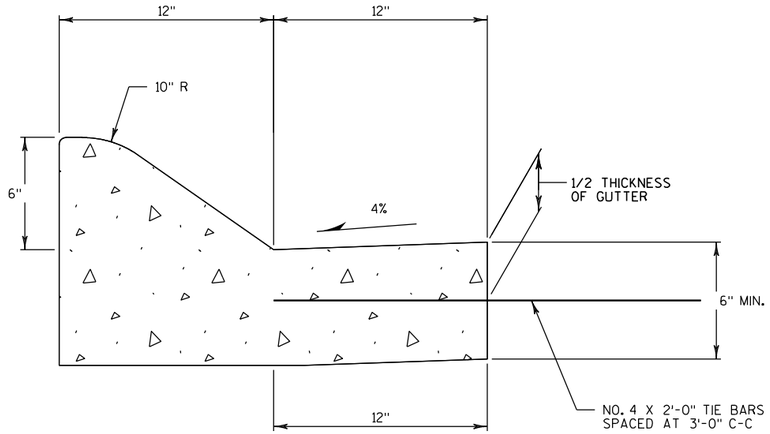
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

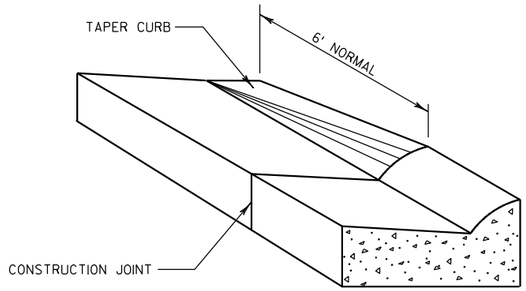
X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\020401_ts.dgn PLOT DATE : 12-DEC-2019 02:30 PLOT BY : mscd1s PLOT NAME : 020401_ts27 PLOT SCALE : 15:1

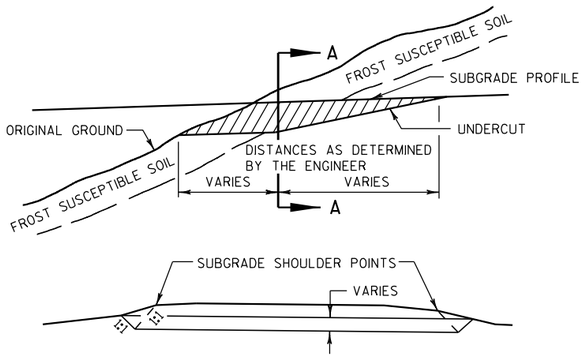


CONCRETE CURB & GUTTER 6-INCH SLOPED 24-INCH TYPE A



CURB & GUTTER TERMINI DETAIL

NOTE: USE 6 FT TRANSITION FOR CONCRETE AND ASPHALTIC CURB

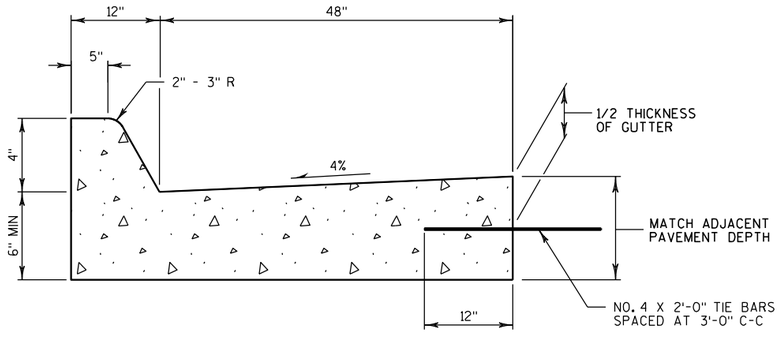


SECTION A-A
CROSS SECTION SHOWING UNDERCUT

NOTES

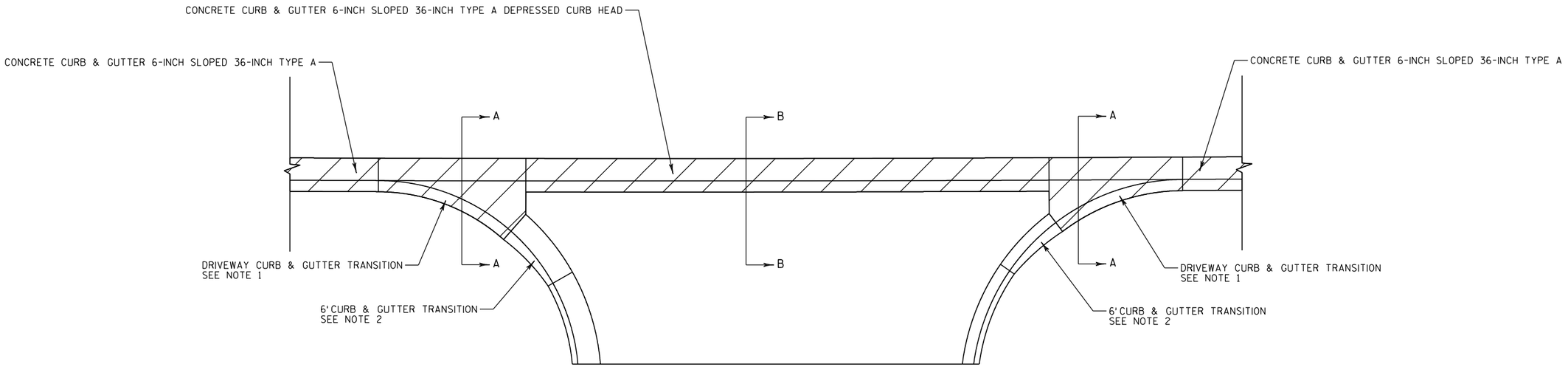
1. EXACT LOCATIONS AND EXTENT OF EBS SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. EBS AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER.
3. BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.
4. THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL EBS IS COMPLETED.

EXCAVATION BELOW SUBGRADE AT CUTS

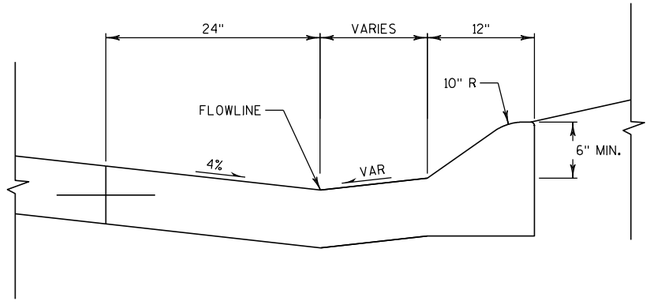


CONCRETE CURB & GUTTER 4-INCH SLOPED 60-INCH TYPE A

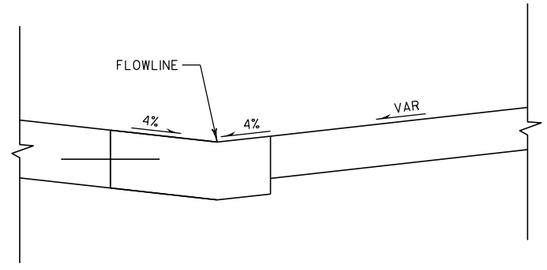
2



PAY LIMITS OF CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A



SECTION A-A



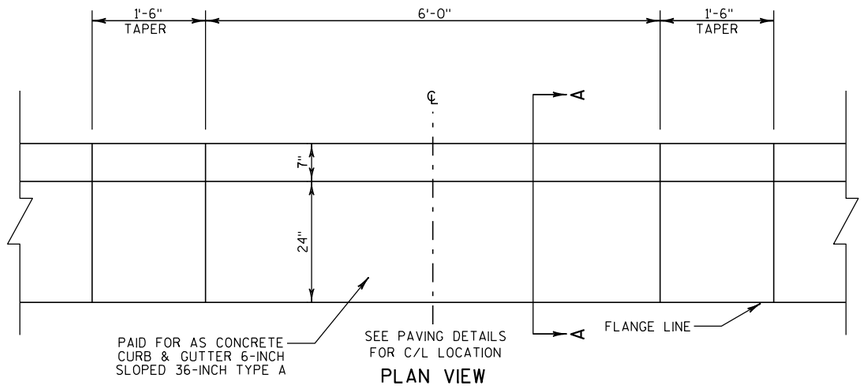
SECTION B-B

NOTES

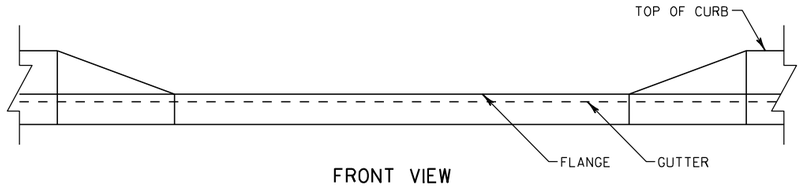
1. DRIVEWAY CURB & GUTTER TRANSITION PAID FOR AS CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A, MEASURED ALONG THE FLOWLINE.
2. 6' CURB & GUTTER TRANSITION PAID FOR AS ADJACENT CURB & GUTTER TYPE ALONG DRIVEWAY ENTRANCE. SEE PLAN DETAILS.

DRIVEWAY CURB & GUTTER TRANSITION

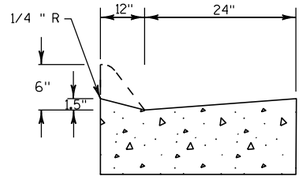
2



PLAN VIEW



FRONT VIEW

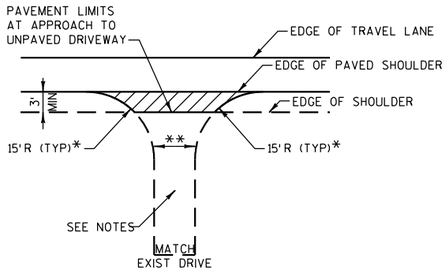


END VIEW

SECTION A-A

MAINTENANCE OPENING

LOCATIONS SHOWN ON PAVING DETAILS



PLAN VIEW

NOTES:

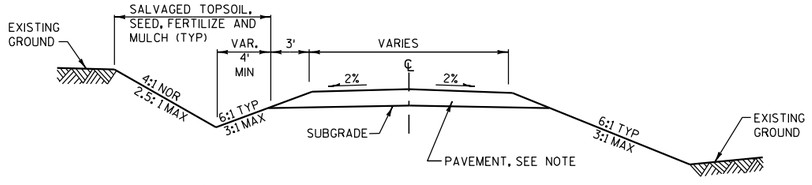
① WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

② DRIVEWAY SURFACE TO BE SAME AS EXISTING WITH MINIMUM SECTION OF:

ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES OVER, 3-INCH
BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
OR
ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES OVER, 5-INCH
BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
OR
CONCRETE DRIVEWAY 6-INCH OVER
4" BASE AGGREGATE DENSE 3/4-INCH, 4-INCH

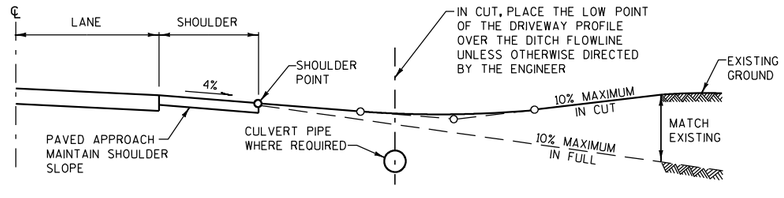
* LARGER RADII MAY BE REQUIRED FOR TRUCKS
SEE PAVING DETAIL SHEETS FOR ADDITIONAL REQUIREMENTS
WHERE APPLICABLE

** SEE PLAN & PROFILES FOR WIDTH REQ'D
RESIDENTIAL: 12' MIN; 24' MAX
COMMERCIAL: 20' MIN; 35' MAX



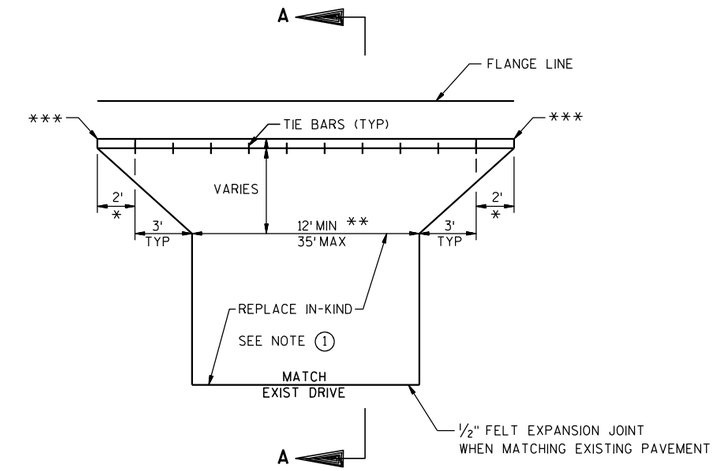
IN CUT IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE



TYPICAL RURAL PROFILES

RURAL DRIVEWAY DETAIL



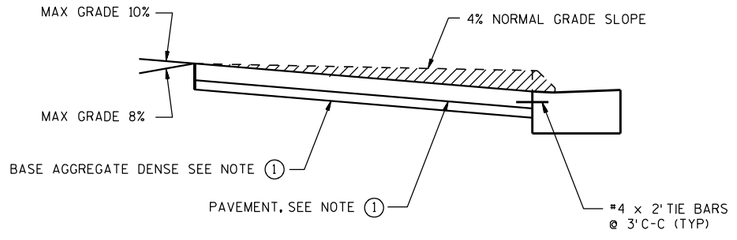
PLAN VIEW

NOTES:

① DRIVEWAY SURFACE SHALL BE REPLACE IN-KIND WITH MINIMUM SECTION OF:

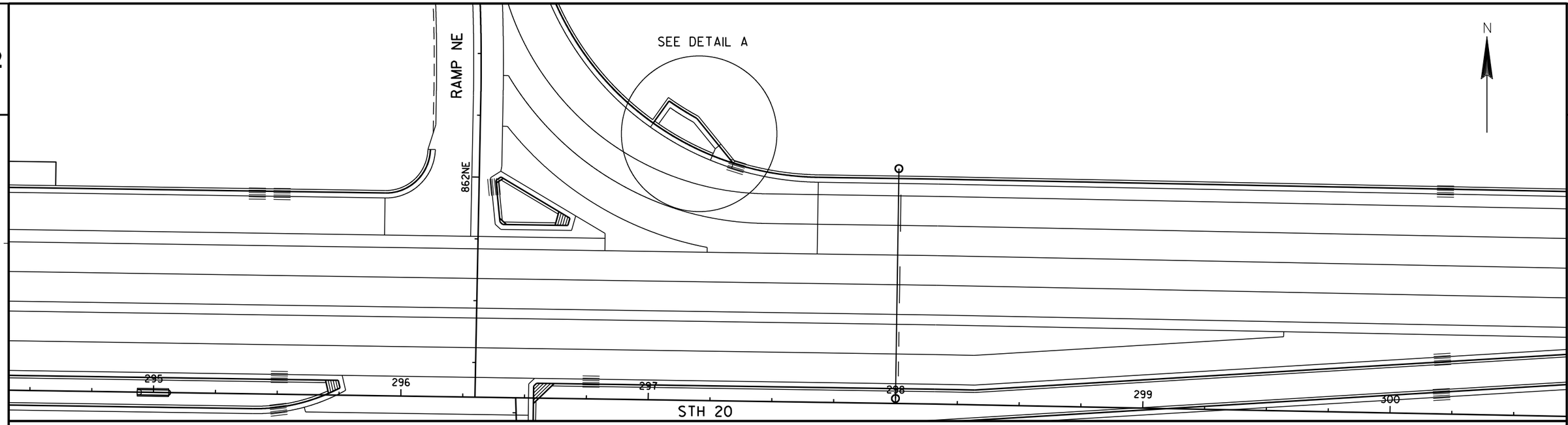
CONCRETE DRIVEWAY 6-INCH OVER
BASE AGGREGATE DENSE 3/4 -INCH, 4-INCH

* TAPER CURB HEAD
** SEE PAVING DETAILS FOR WIDTH REQD
*** STATION SHOWN ON PAVING DETAILS



SECTION A-A

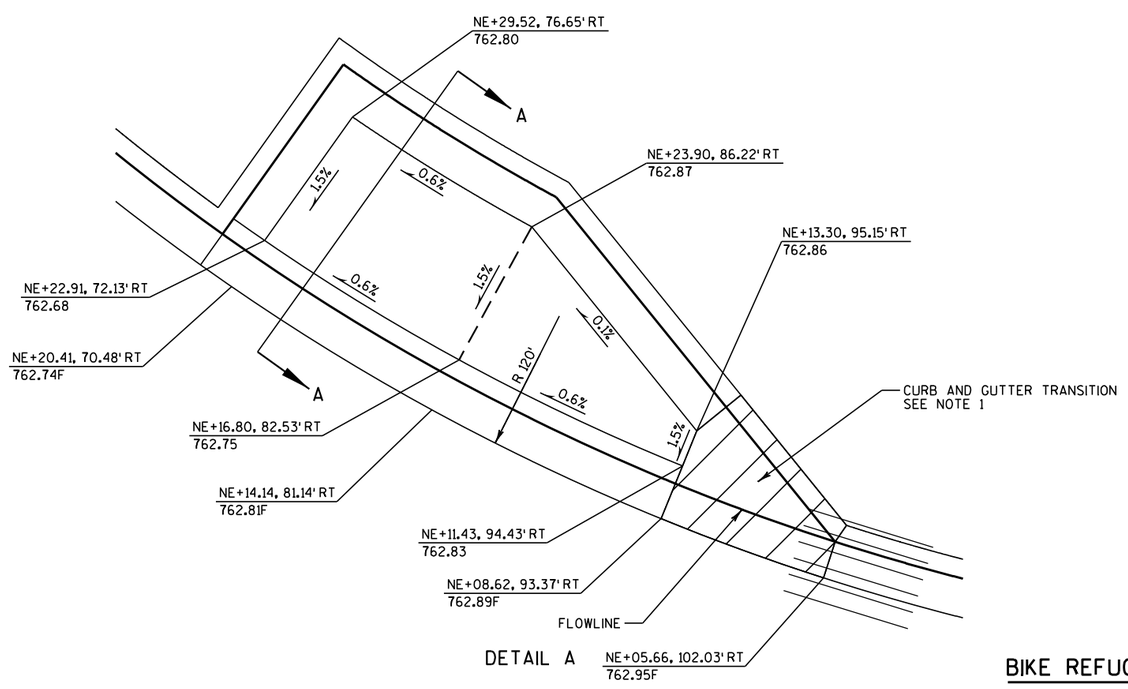
URBAN DRIVEWAY DETAIL



PLAN VIEW

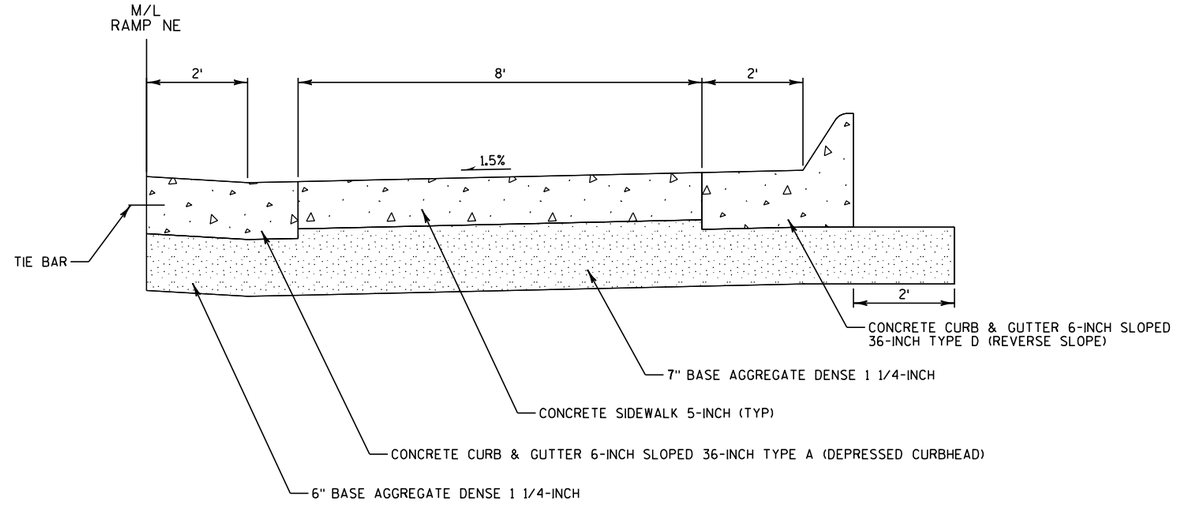
NOTE

1. CURB AND GUTTER TRANSITION PAID FOR AS CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A, MEASURED ALONG THE FLOWLINE



DETAIL A

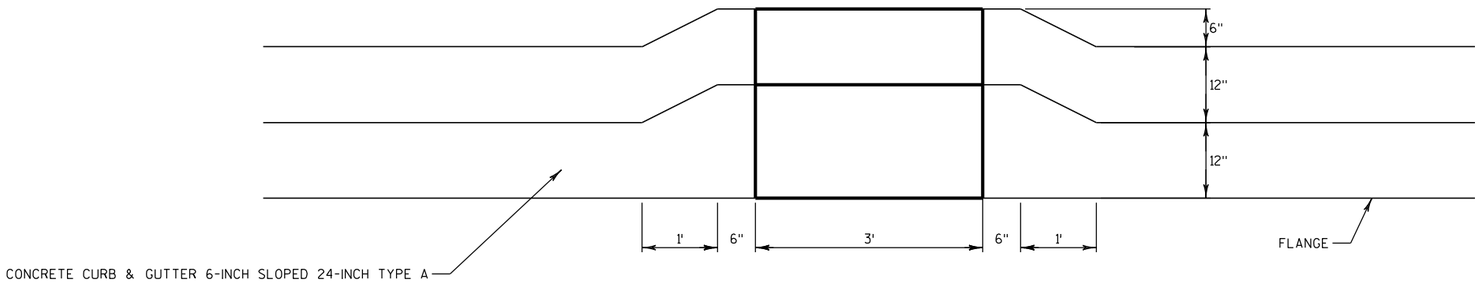
BIKE REFUGE DETAIL



SECTION A-A

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET	E

2



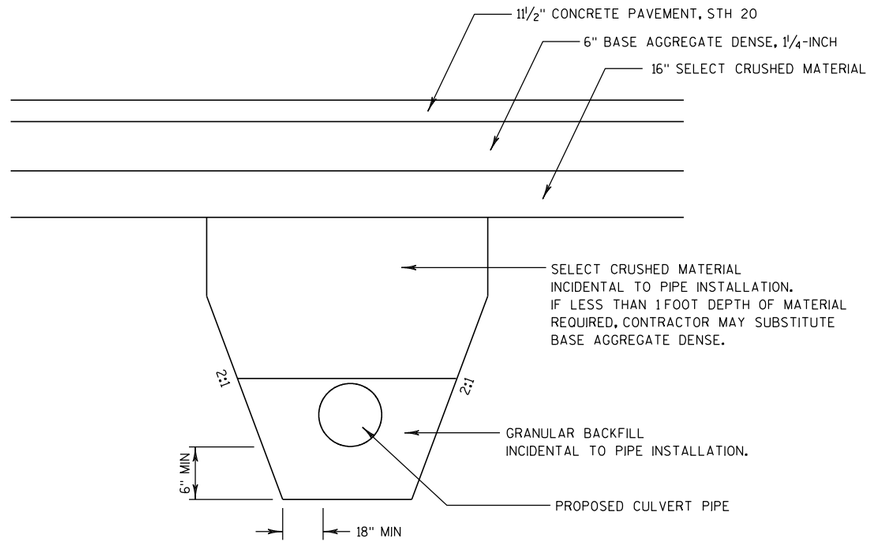
PLAN VIEW

*TO BE PAID FOR AS
CONCRETE CURB AND GUTTER
6-INCH SLOPED 24-INCH TYPE A

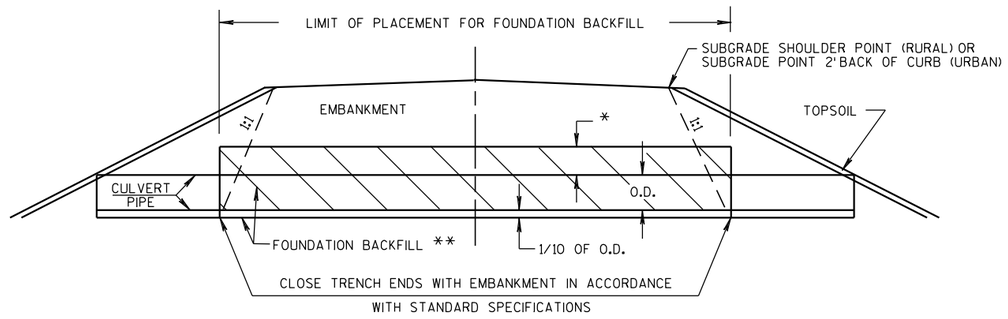
CONCRETE CURB & GUTTER
AT TYPE HM INLET COVERS

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET	E

2



INSTALLATION OF PIPES



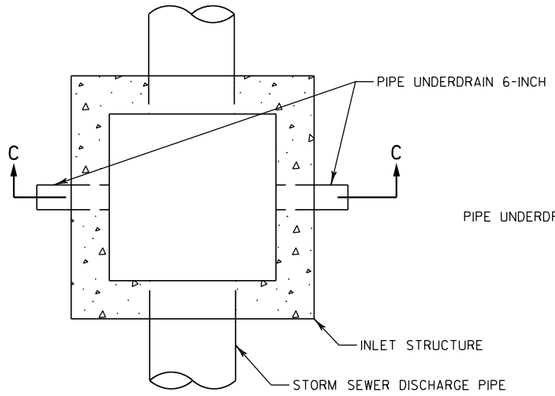
O.D. = OUTSIDE DIAMETER
* CULVERT PIPE IN NEW EMBANKMENT = 1' MIN
* CULVERT PIPE IN EXISTING EMBANKMENT = TO EXISTING GROUND ELEVATION
** INCIDENTAL TO CULVERT PIPE

CULVERT BACKFILL DETAIL

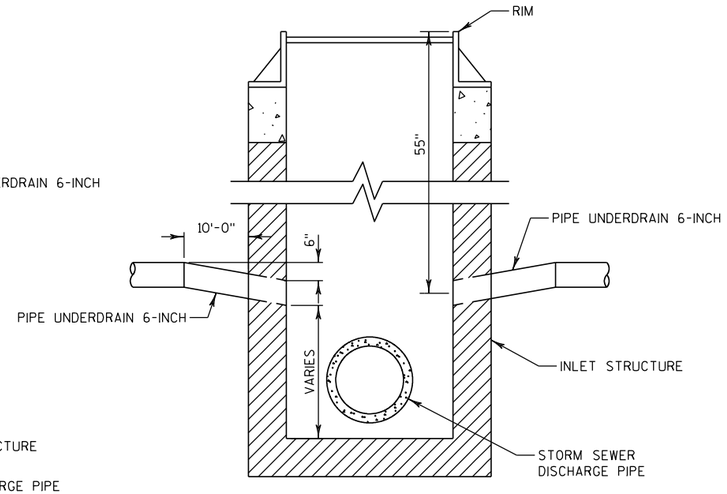
2

NOTES

1. CONNECTIONS TO INLETS OR MANHOLES IN MEDIAN SHALL USE PIPE UNDERDRAIN, 6-INCH.
2. PROVIDE TWO 6" DIA. OPENINGS FOR UNDERDRAIN PIPE A MINIMUM OF 55" BELOW THE RIM ELEVATION.
3. SEE TYPICAL SECTIONS, STORM SEWER, AND UNDERDRAIN PLANS FOR PIPE UNDERDRAIN LOCATIONS.

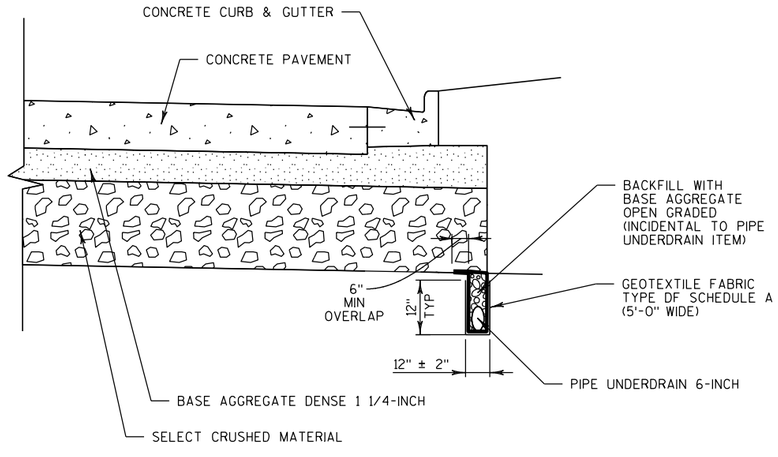


PLAN VIEW



SECTION C-C

UNDERDRAIN OUTFALL AT INLET



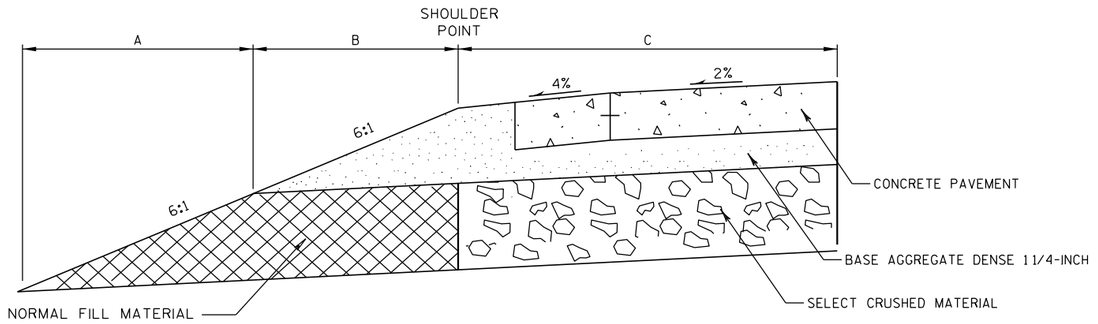
PIPE UNDERDRAIN 6-INCH DETAIL - CURB AND GUTTER SECTION

2

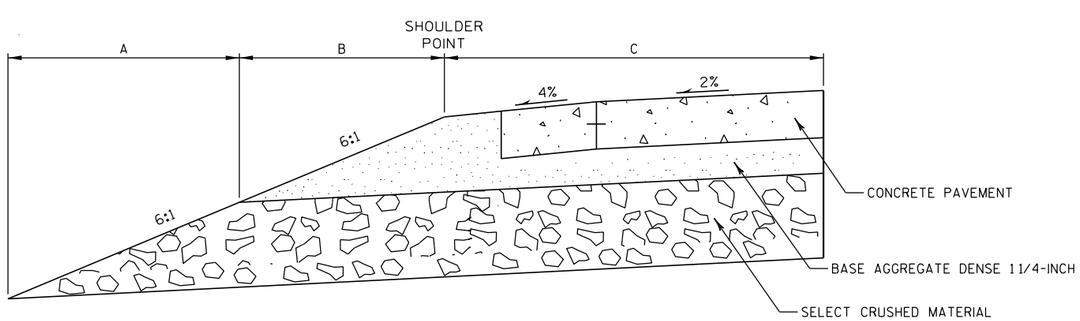
CONSTRUCT RELIEF TRENCH AT:

STH 20

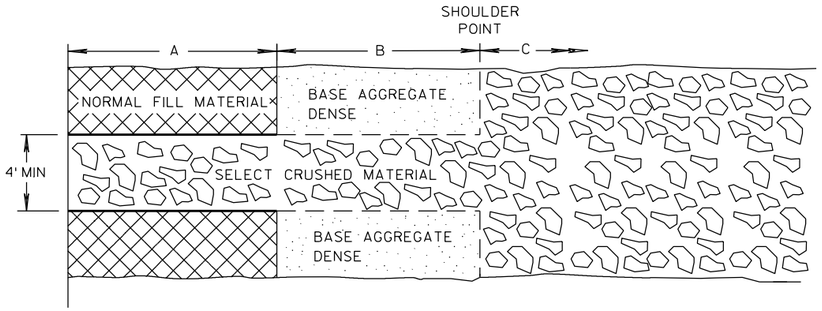
269+00 LT
272+50 LT
275+50 LT
283+50 LT
309+00 LT
310+00 RT
312+50 LT
315+50 RT
316+00 LT
319+50 LT
323+00 LT
327+00 LT
330+00 LT
333+00 LT
336+30 LT



TYPICAL HALF SECTION
WITHOUT RELIEF TRENCH



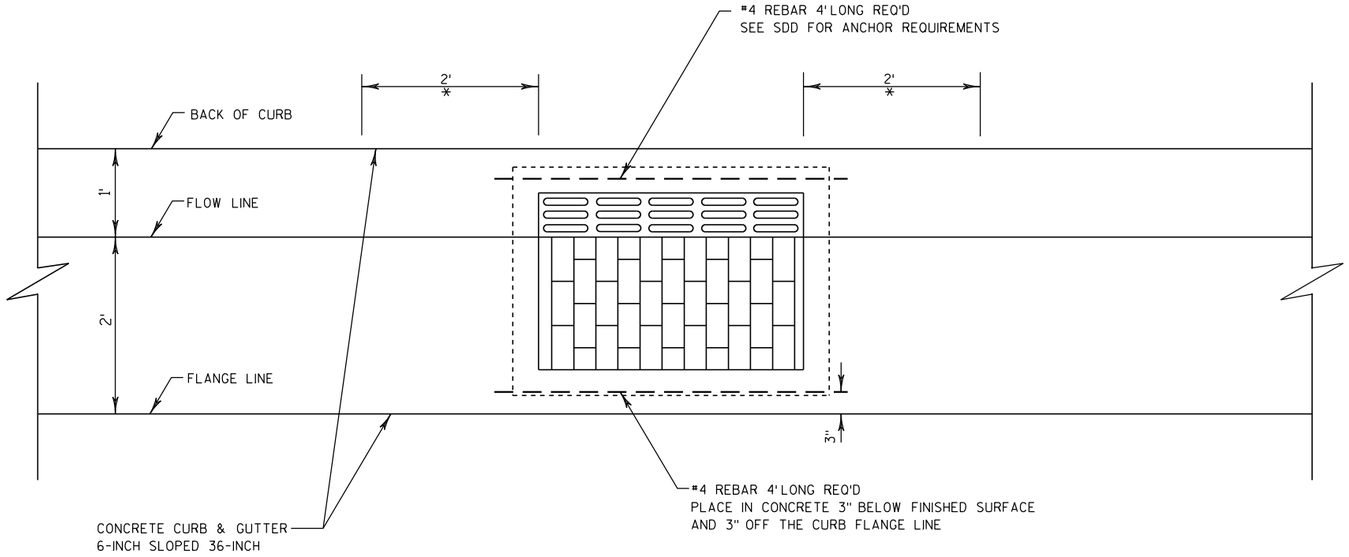
TYPICAL HALF SECTION
WITH RELIEF TRENCH



RELIEF TRENCH PLAN VIEW

RELIEF TRENCH

2



PLAN VIEW

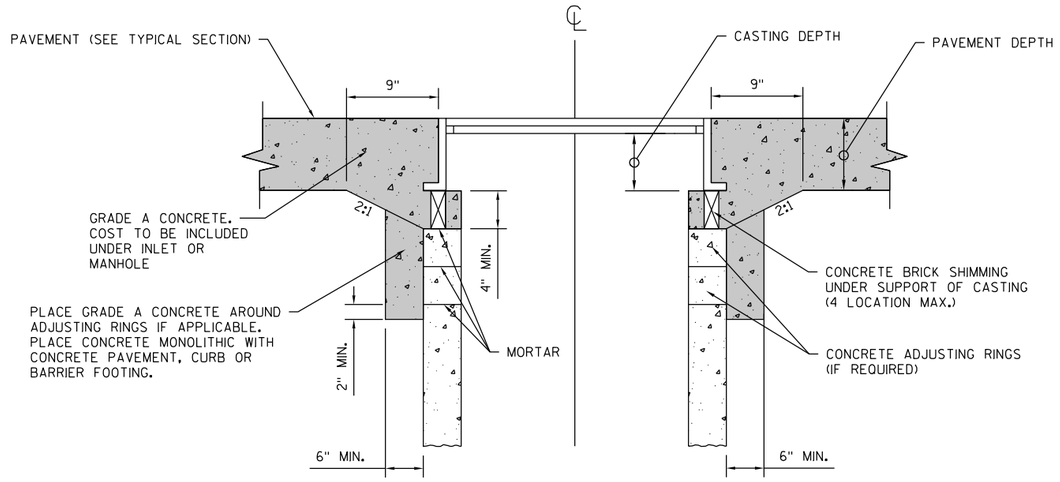
* TRANSITION STANDARD CURB HEAD TO MATCH THE TYPE HM INLET COVER.

NOTES

1. SEE SDD "INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S" FOR ADDITIONAL INFORMATION.
2. THE TWO 2-FOOT LONG CURB TRANSITION SEGMENTS ARE PAID AS CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH.
3. THE TWO 4-FOOT LENGTHS OF #4 REBAR ARE INCIDENTAL TO THE BID ITEM "INLET COVERS TYPE HM".

INLET COVERS, TYPE HM

2



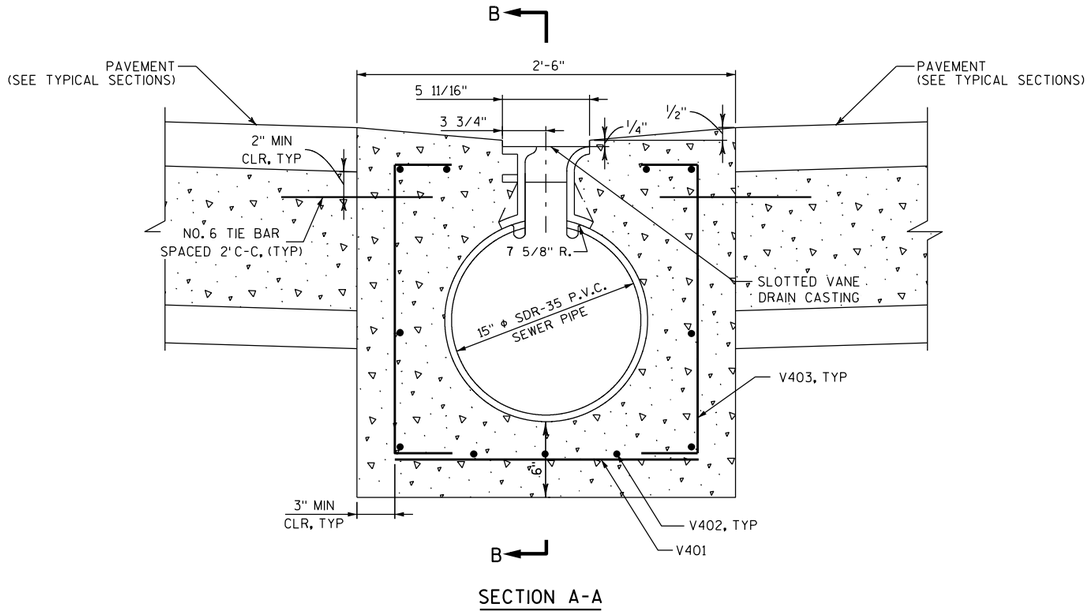
NOTE

PROVIDE MONOLITHIC CONCRETE SHIMMING FOR FINAL ADJUSTMENT OF DRAINAGE STRUCTURES LOCATED WITHIN THE ROADWAY CONCRETE PAVEMENT AND CONCRETE CURB & GUTTER.

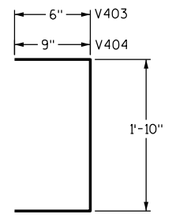
MONOLITHIC CONCRETE

MONOLITHIC CONCRETE SHIMMING DETAIL

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET	E



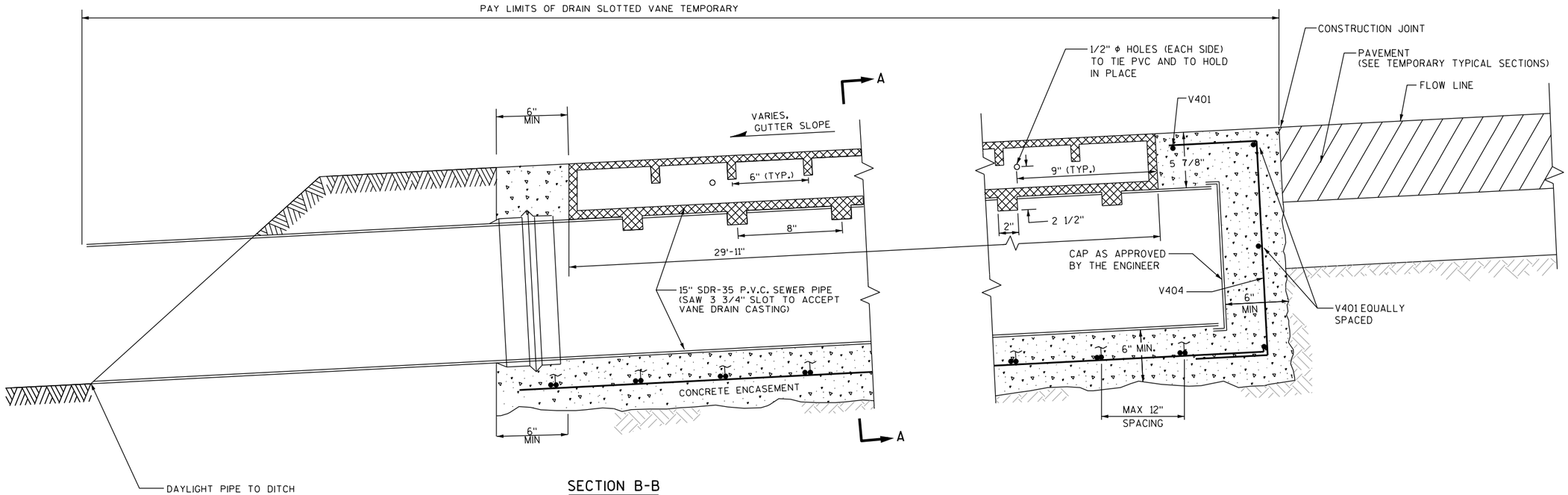
SECTION A-A



V403, V404

NOTES

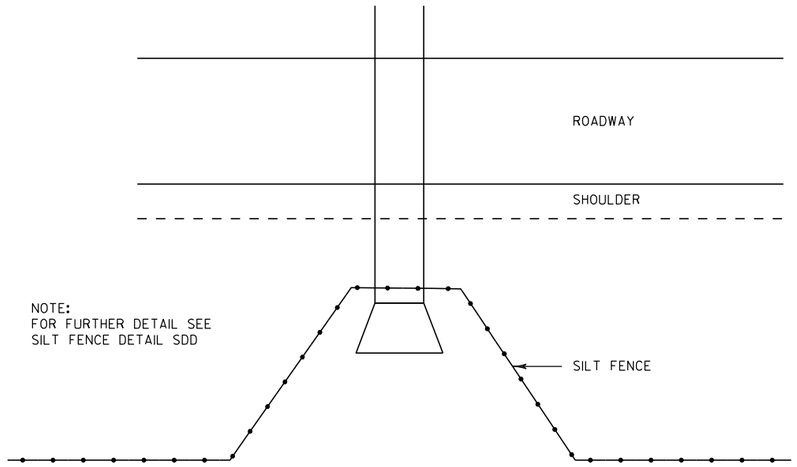
1) THE FIRST DIGIT OF BAR MARK SIGNIFIES THE BAR SIZE.
2) ALL DIMENSIONS ARE OUT TO OUT OF BAR.
3) APPROX. WEIGHT OF SLOTTED VANE DRAIN CASTING = 87 POUNDS.
4) THE CASTING AND P.V.C. PIPE SHALL BE SECURELY STAKED AND ANCHORED INTO PLACE DURING THE POURING OF THE CONCRETE ENCASEMENT.



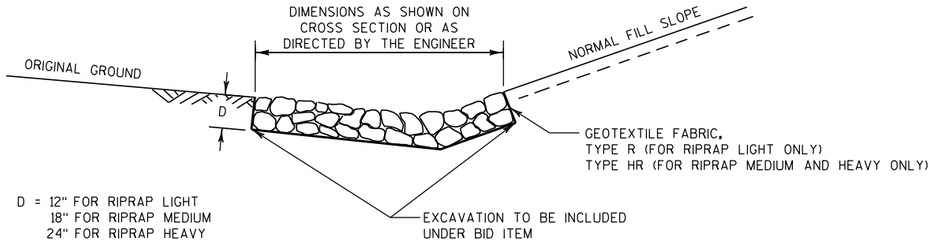
SECTION B-B

DRAIN SLOTTED VANE LONGITUDINAL TEMPORARY

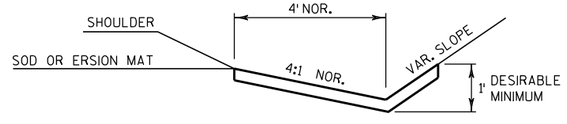
2



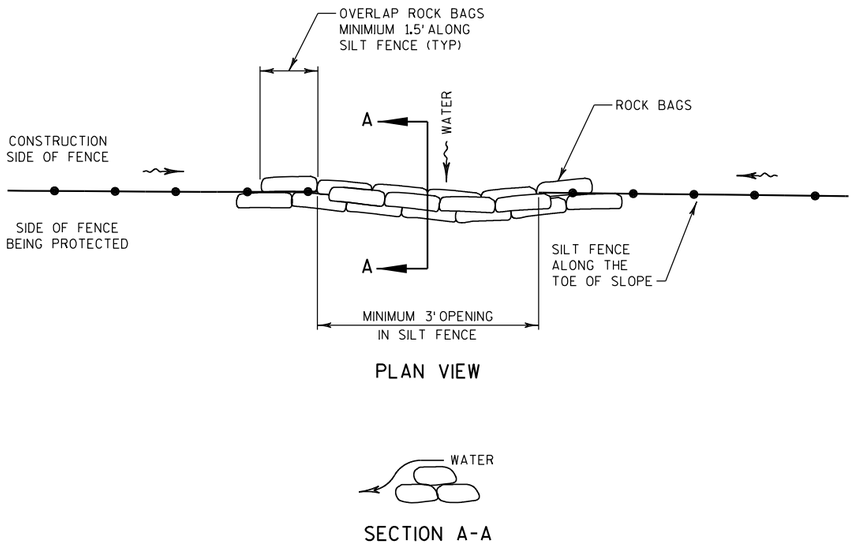
TYPICAL SILT FENCE DETAIL AT PIPE INLET



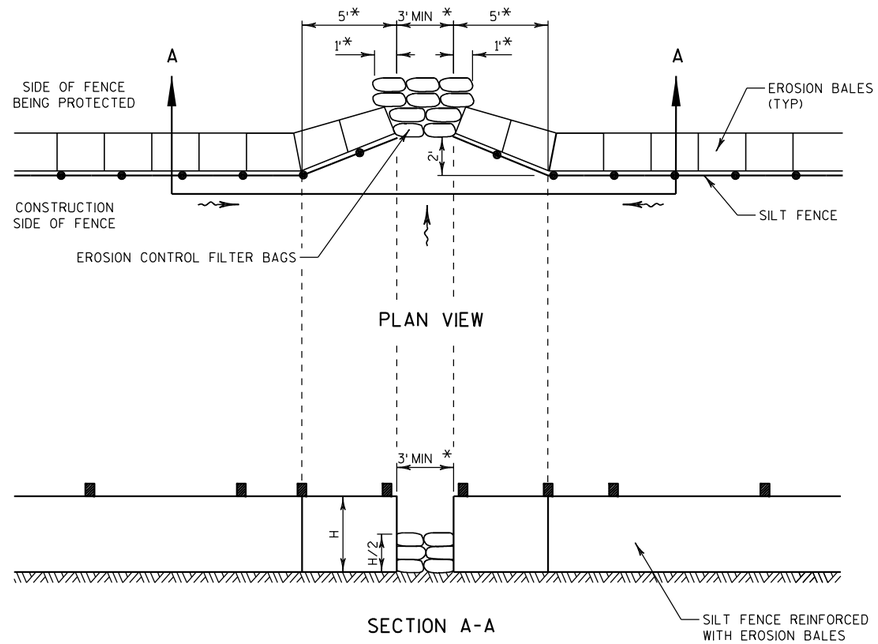
RIPRAP IN DITCHES



SOD OR EROSION MAT DETAIL FOR DITCHES



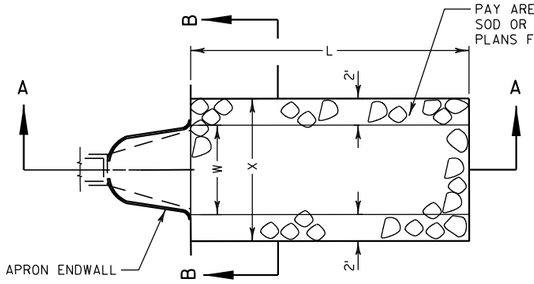
SILT FENCE DRAINAGE OUTLET, ROCK BAGS



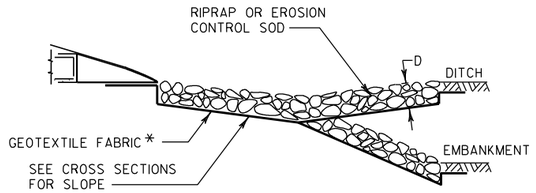
* DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

SILT FENCE DRAINAGE OUTLET, EROSION CONTROL FILTER BAGS

(FOR USE IN ENVIRONMENTALLY SENSITIVE AREAS)



PLAN VIEW



SECTION A-A

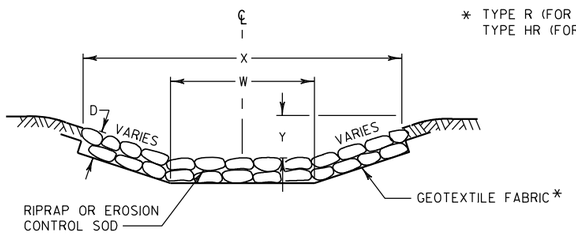
L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

X = W+4' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+6' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
6" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)



SECTION B-B

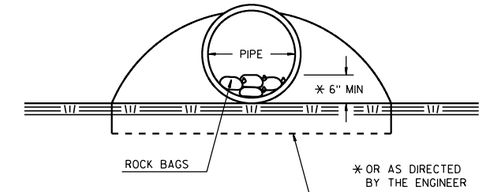
CONSTRUCTION NOTES

1. GEOTEXTILE FABRIC SHALL EXTEND BENEATH THE ENTIRE LENGTH OF THE APRON ENDWALL SECTION. INSTALL ON PREPAVED FOUNDATION. GRADE PRIOR TO END WALL INSTALLATION.

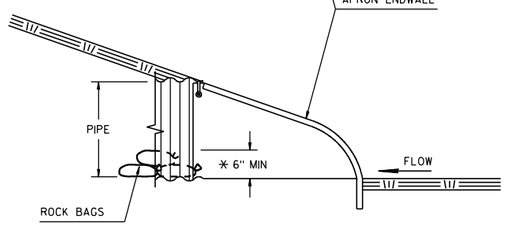
2. COMPLETE GEOTEXTILE FABRIC AND RIPRAP SECTION INSTALLATION PRIOR TO STORM WATER FLOW.

SOD, RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

SEE EROSION CONTROL PLAN FOR LOCATIONS



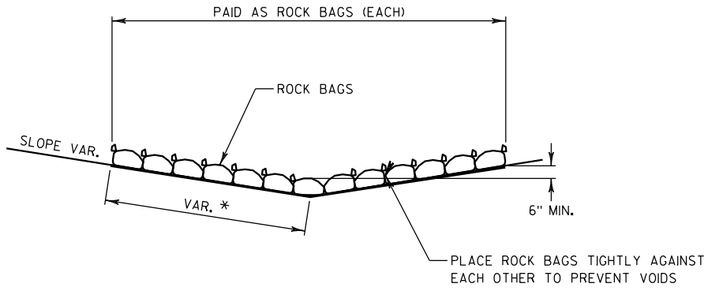
END VIEW



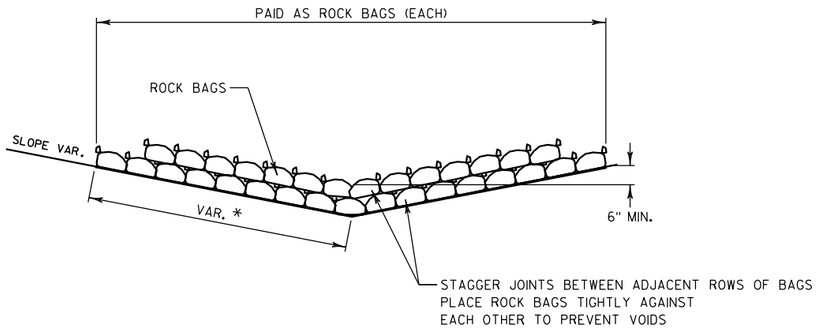
SIDE VIEW

ESTIMATED BAG SIZE = 18" X 12" X 6"	
PIPE SIZE	ESTIMATED NUMBER OF BAGS
12"	1
15"	2
18"	2
24"	3
30"	5
36"	7
42"	7
48"	10
54"	10
60"	13
66"	14
72"	16
13"X17"	2
19"X30"	5
24"X38"	7
29"X45"	10
34"X53"	10
38"X60"	13
48"X76"	18

CULVERT PIPE ENDS



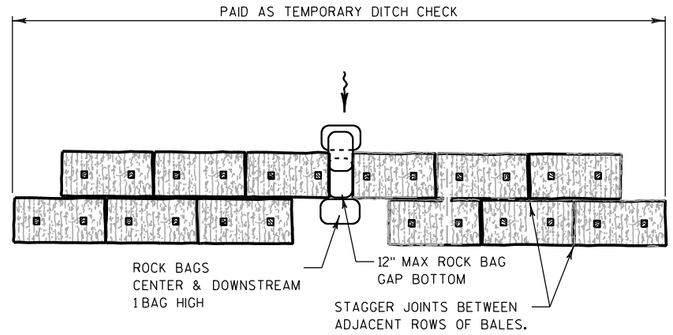
SIDE VIEW (SINGLE LAYER)



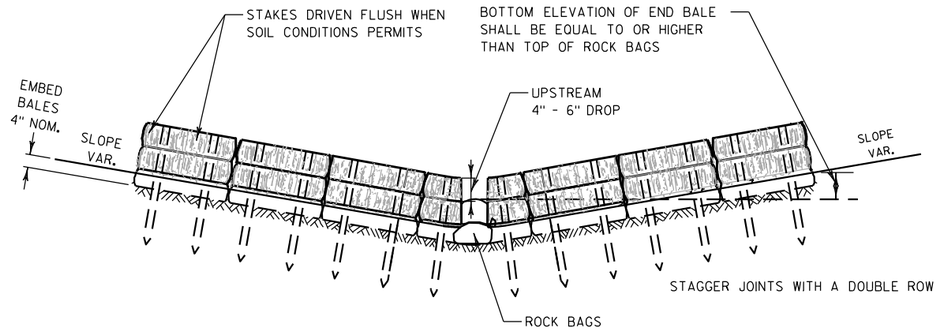
* LENGTH AND NUMBER OF BAGS MAY VARY
DEPENDING ON DESIRED DEPTH OF WATER POOL.

SIDE VIEW (DOUBLE LAYER)

TEMPORARY DITCH CHECK, ROCK BAGS,
SINGLE LAYER AND DOUBLE LAYER



PLAN VIEW



FRONT ELEVATION

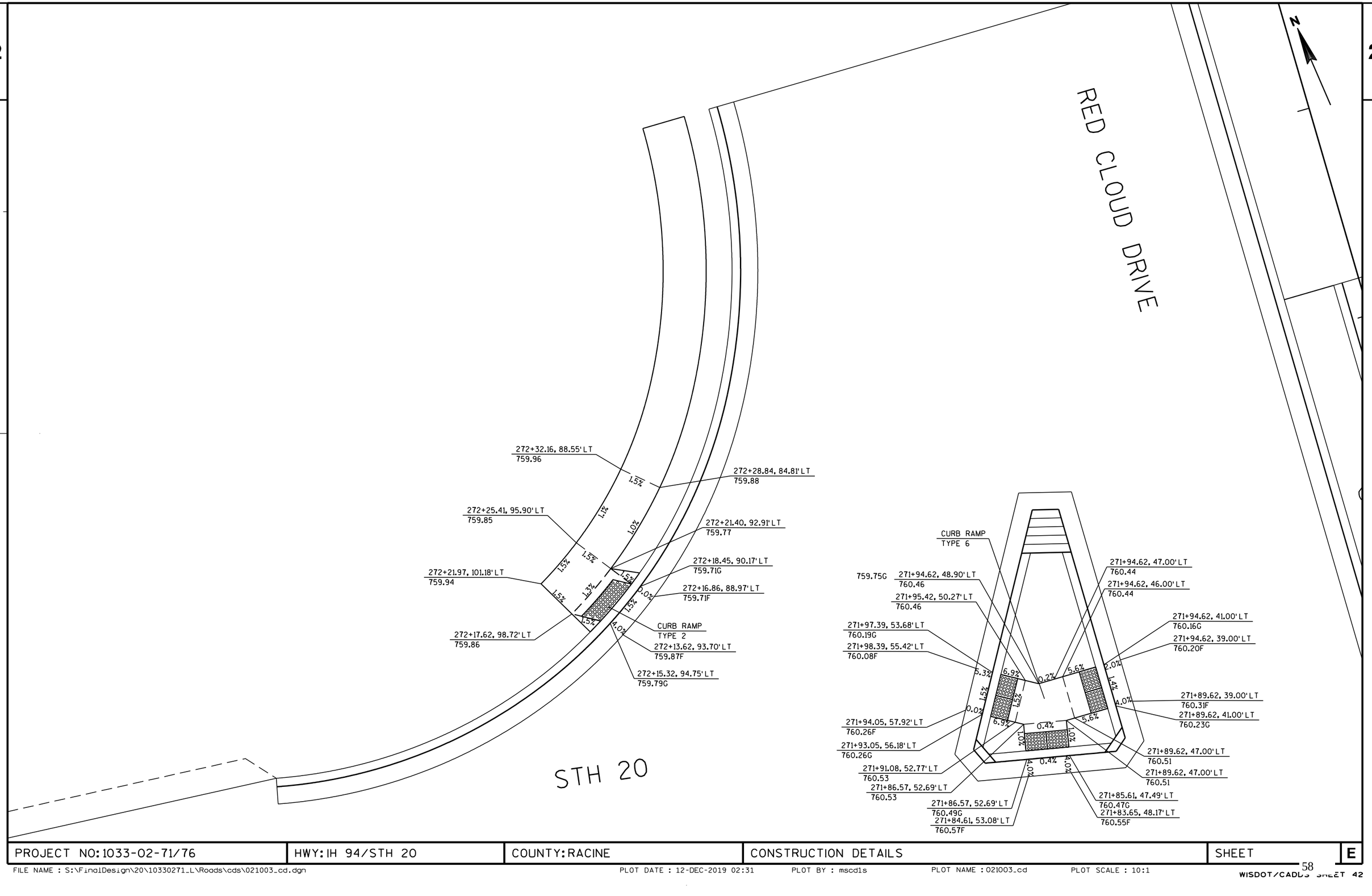
NOTE

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.

TEMPORARY DITCH CHECK, MODIFIED

TEMPORARY DITCH CHECKS

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET	E

2

N

RED CLOUD DRIVE

272+07.99, 39.95' RT
760.00

272+05.81, 35.45' RT
759.93

271+99.51, 45.21' RT
759.81

271+96.46, 41.25' RT
759.73

271+89.74, 55.29' RT
759.94

271+94.62, 37.62' RT
759.67G

271+89.74, 55.29' RT
759.99

271+93.42, 36.02' RT
759.68F

271+84.33, 54.33' RT
759.92

CURB RAMP
TYPE 2

271+88.25, 40.38' RT
759.82F

271+89.62, 41.83' RT
759.77G

271+89.62, 47.53' RT
759.86

271+87.63, 49.84' RT
759.88

271+83.17, 49.04' RT
759.88G

271+81.56, 47.86' RT
759.96F

271+80.07, 53.57' RT
759.86G

271+78.37, 52.52' RT
759.94F

CURB RAMP
TYPE 2

1.9%
1.8%
1.5%
1.5%
0.9%
1.3%
1.4%
1.5%
0.7%
0.7%
1.5%
0.5%
1.5%
0.5%
4.0%
4.0%
0.5%

271+94.62, 2.94' LT
759.90G

271+94.30, 0.97' LT
759.96F

271+94.62, 10.00' LT
759.97G

271+94.62, 12.00' LT
760.02F

271+89.17, 1.98' LT
760.01F

271+89.62, 3.93' LT
759.97G

271+89.59, 12.00' LT
760.12F

271+89.62, 10.00' LT
760.04G

CURB RAMP
TYPE 5

2.5%
4.0%
1.4%
1.2%
4.0%
3.0%
1.4%
2.0%

STH 20

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET	E

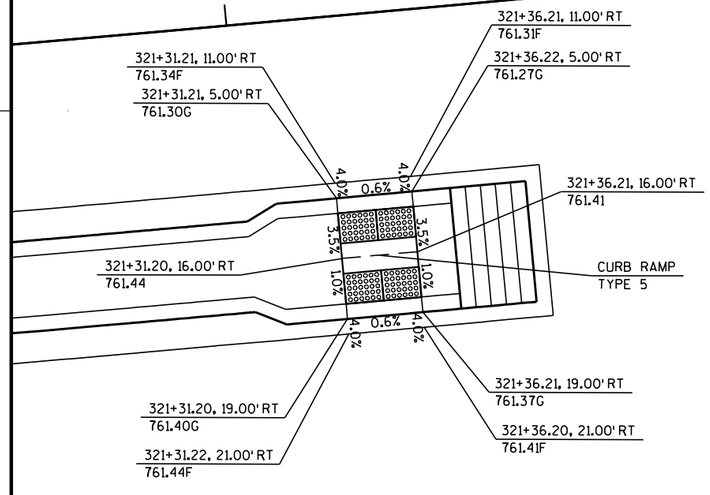
FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\021003_cd.dgn PLOT DATE : 12-DEC-2019 02:31 PLOT BY : mscd1s PLOT NAME : 021003_cd1 PLOT SCALE : 10:1

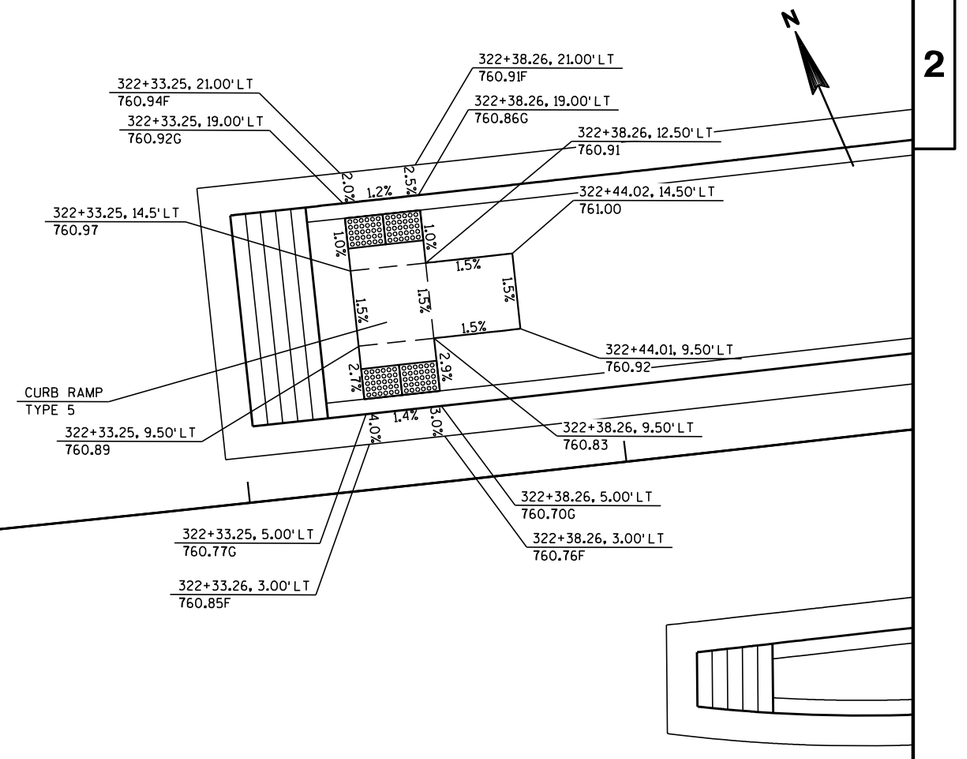
RED CLOUD DRIVE

322

STH 20

CTH 27

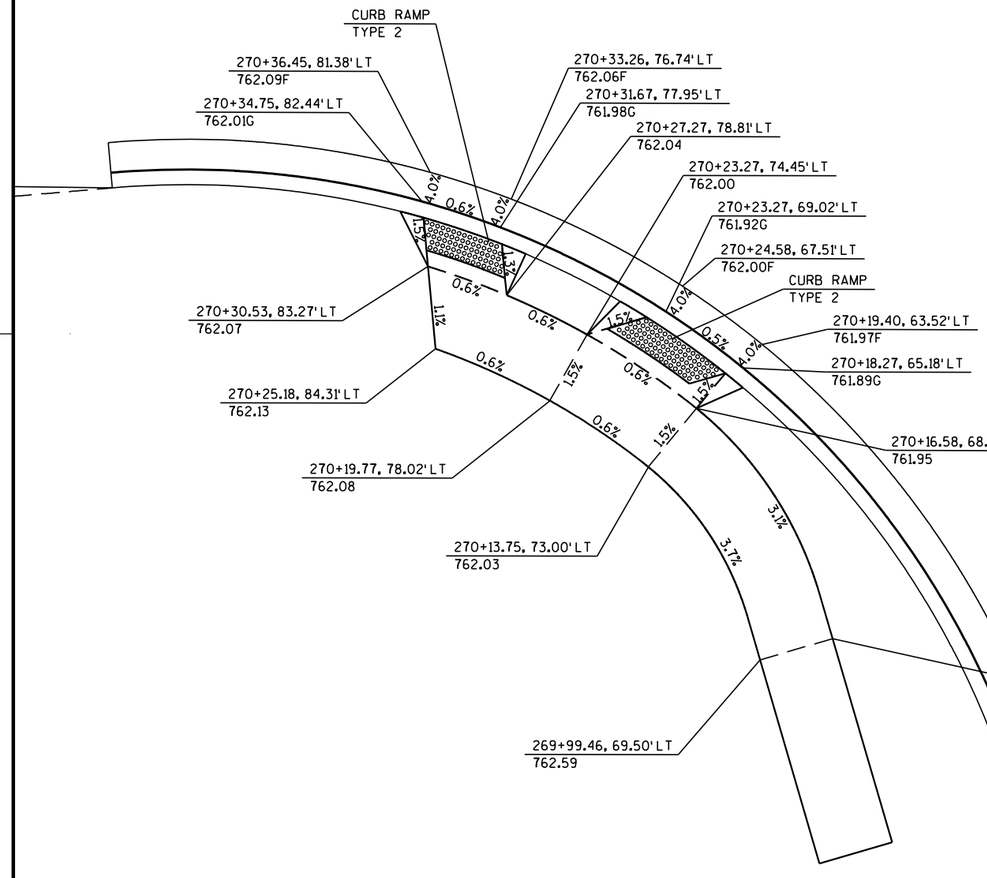


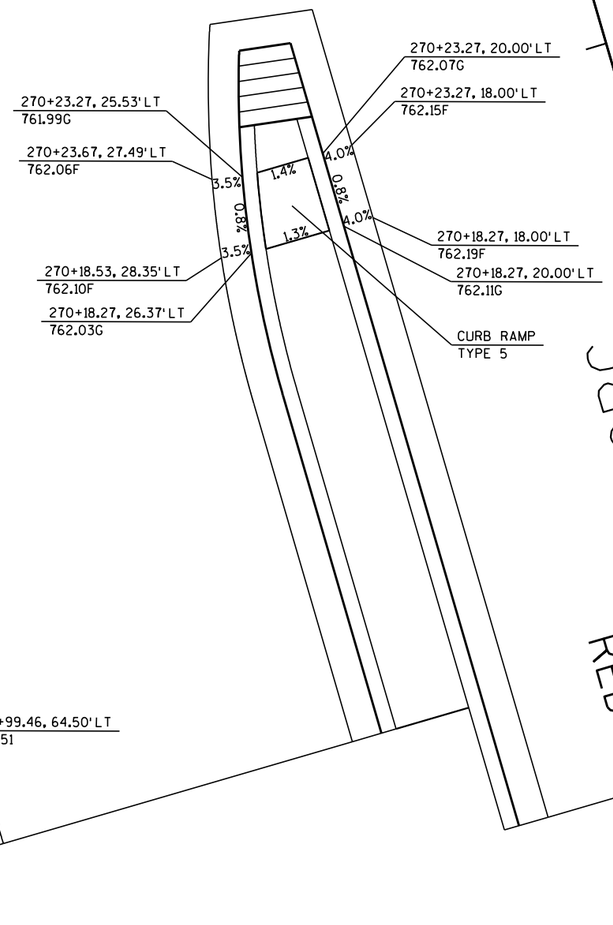


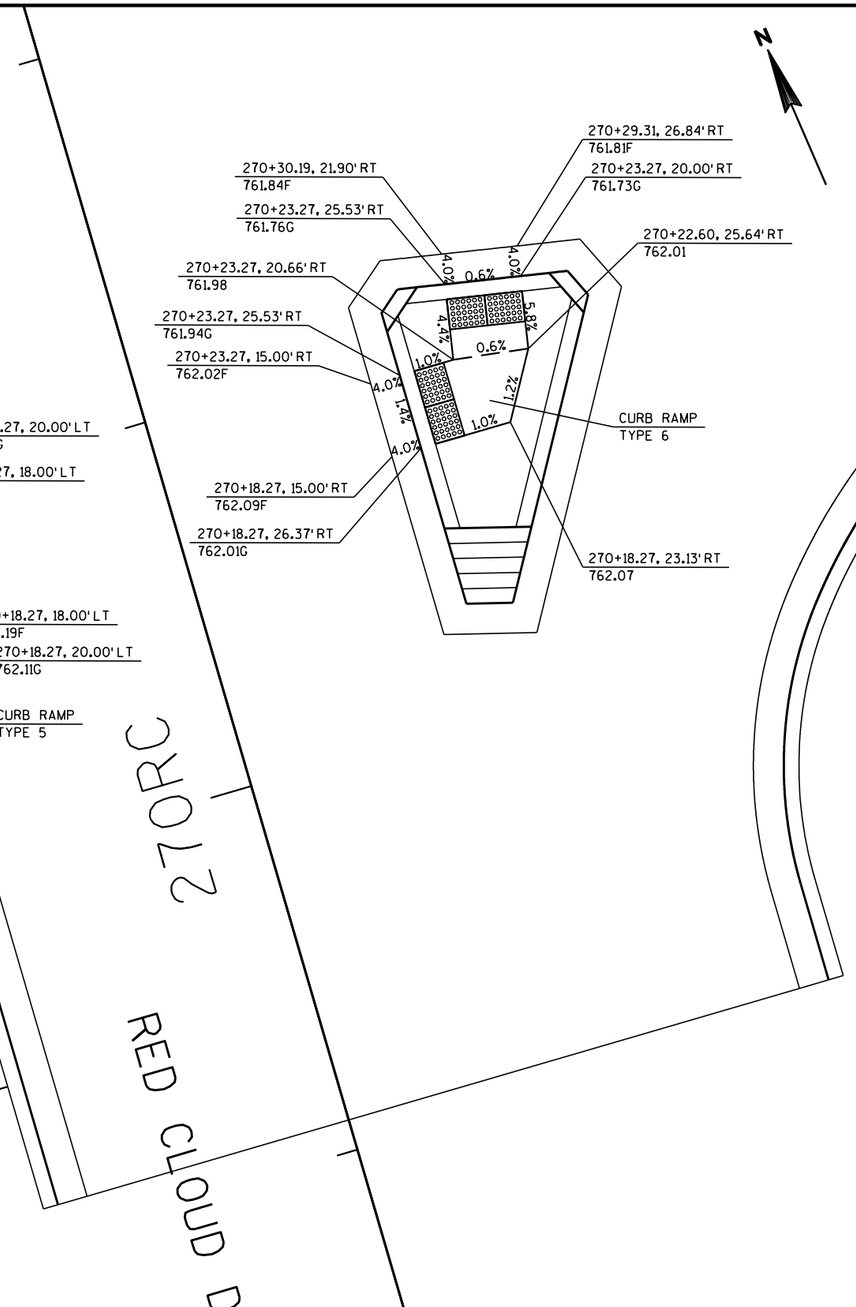
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET	E

2

STH 20

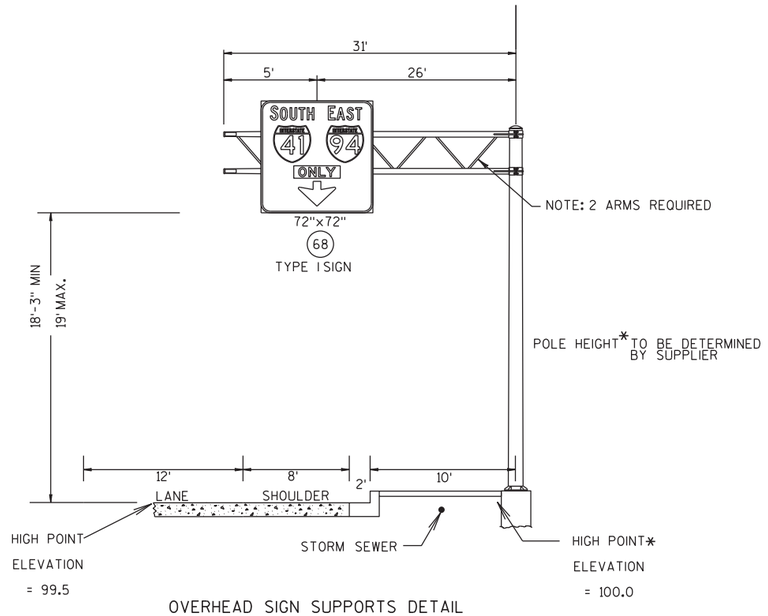






PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET	E

2



OVERHEAD SIGN SUPPORTS DETAIL

S-51-227

STH 20 EB @ IH-41/94 SOUTH ON RAMP

STA 289+10

CONTRACTOR TO USE SDD 36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

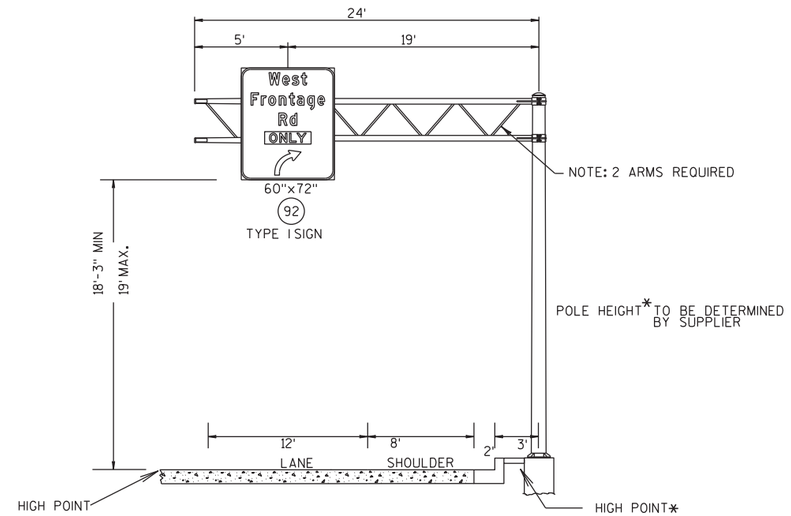
IBEAMS - W5X3.7 IBEAMS FOR MOUNTING SIGNS ARE INCIDENTAL TO TYPE ISIGNS

GENERAL NOTES

1. DRAWINGS NOT TO SCALE.
2. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 6TH EDITION & INTERIM REVISIONS FATIGUE CATEGORY 1 CANTILEVERS.
3. THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGNS SHOWN.
4. WIND VELOCITY PER WISDOT STD SPECIFICATIONS.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

NOTE, CONTRACTOR SHALL:

1. SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT TO TOM HEYDEL & BOS. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2. PROVIDE DESIGN CALCULATIONS.
3. SHOW SIGNS ON SHOP DRAWINGS.
4. I.D. PLAQUE INCIDENTAL TO OVERHEAD SIGN SUPPORT PER STANDARD SPEC 641.3.1.4.
5. 6 ANCHOR RODS MINIMUM PER STANDARD DETAIL DRAWING. DESIGN STRUCTURE BASE PLATE CONNECTION TO ACCOMODATE.
6. REFER TO SIGN PLATE A4-7.4 FOR ATTACHMENT OF SIGNS TO OVERHEAD SIGN SUPPORT
7. INSTALL SIGNS OR SIGN BLANKS ON OVERHEAD SIGN SUPPORTS AT THE TIME OF ERECTION AS SPECIFIED IN STANDARD SPEC 641.3.1.4.



OVERHEAD SIGN SUPPORTS DETAIL
S-51-229
STH 20 WB @ WEST FRONTAGE ROAD
STA 290+38

CONTRACTOR TO USE SDD 36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

IBEAMS - W5X3.7 IBEAMS FOR MOUNTING SIGNS ARE INCIDENTAL TO TYPE I SIGNS

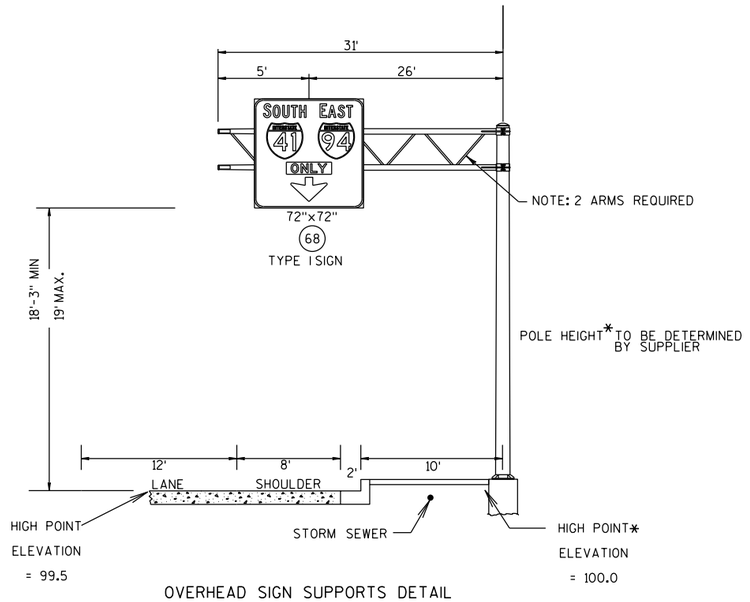
GENERAL NOTES

1. DRAWINGS NOT TO SCALE.
2. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 6TH EDITION & INTERIM REVISIONS FATIGUE CATEGORY I CANTILEVERS.
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2. PROVIDE DESIGN CALCULATIONS.
3. SHOW SIGNS ON SHOP DRAWINGS.
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6. REFER TO SIGN PLATE A4-7.4 FOR ATTACHMENT OF SIGNS TO OVERHEAD SIGN SUPPORT
7. INSTALL SIGNS OR SIGN BLANKS ON OVERHEAD SIGN SUPPORTS AT THE TIME OF ERECTION AS SPECIFIED IN STANDARD SPEC 641.3.1.4.

2



OVERHEAD SIGN SUPPORTS DETAIL

S-51-227

STH 20 EB @ IH-41/94 SOUTH ON RAMP

STA 289+10

CONTRACTOR TO USE SDD 36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

I BEAMS - W5X3.7 I BEAMS FOR MOUNTING SIGNS ARE INCIDENTAL TO TYPE I SIGNS

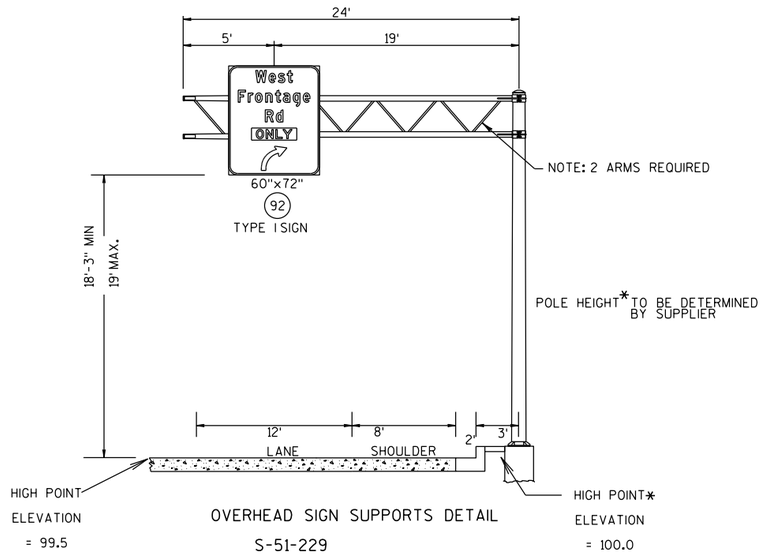
GENERAL NOTES

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4. WIND VELOCITY PER WISDOT STD SPECIFICATIONS.
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NOTE, CONTRACTOR SHALL:

1. SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT TO TOM HEYDEL & BOS. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2. PROVIDE DESIGN CALCULATIONS.
3. SHOW SIGNS ON SHOP DRAWINGS.
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7. INSTALL SIGNS OR SIGN BLANKS ON OVERHEAD SIGN SUPPORTS AT THE TIME OF ERECTION AS SPECIFIED IN STANDARD SPEC 641.3.1.4.

2



OVERHEAD SIGN SUPPORTS DETAIL

S-51-229
STH 20 WB @ WEST FRONTAGE ROAD
STA 290+38

GENERAL NOTES

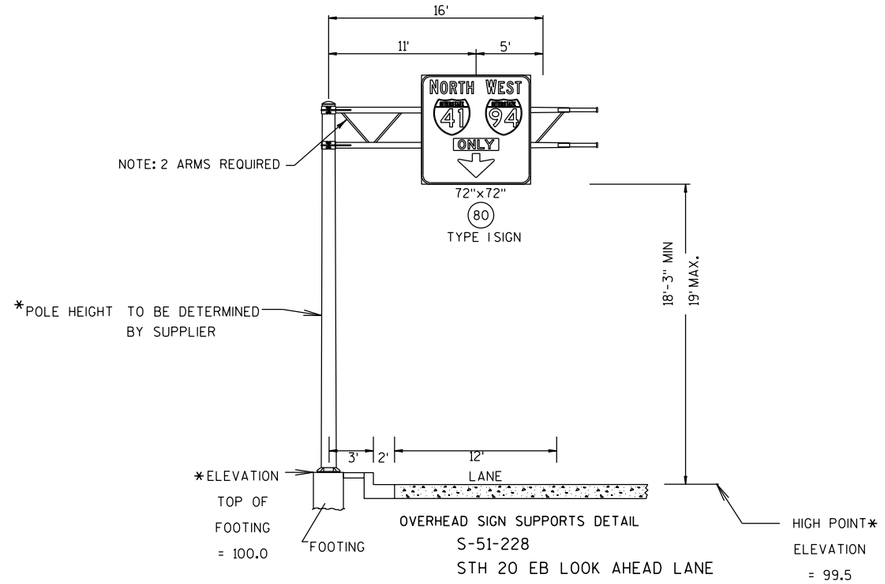
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2. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 6TH EDITION & INTERIM REVISIONS FATIGUE CATEGORY 1 CANTILEVERS.
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4. WIND VELOCITY PER WISDOT STD SPECIFICATIONS.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

NOTE, CONTRACTOR SHALL:

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2. PROVIDE DESIGN CALCULATIONS.
3. SHOW SIGNS ON SHOP DRAWINGS.
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7. INSTALL SIGNS OR SIGN BLANKS ON OVERHEAD SIGN SUPPORTS AT THE TIME OF ERECTION AS SPECIFIED IN STANDARD SPEC 641.3.1.4.

CONTRACTOR TO USE SDD 36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

I BEAMS - W5X3.7 I BEAMS FOR MOUNTING SIGNS ARE INCIDENTAL TO TYPE I SIGNS



OVERHEAD SIGN SUPPORTS DETAIL
S-51-228
STH 20 EB LOOK AHEAD LANE
TO IH-41/94 NORTHBOUND
STA 290+25

GENERAL NOTES

1. DRAWINGS NOT TO SCALE.
2. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 6TH EDITION & INTERIM REVISIONS FATIGUE CATEGORY 1 CANTILEVERS.
3. THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGNS SHOWN.
4. WIND VELOCITY PER WISDOT STD SPECIFICATIONS.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

CONTRACTOR TO USE SDD 36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

I BEAMS - W5X3.7 I BEAMS FOR MOUNTING SIGNS ARE INCIDENTAL TO TYPE I SIGNS

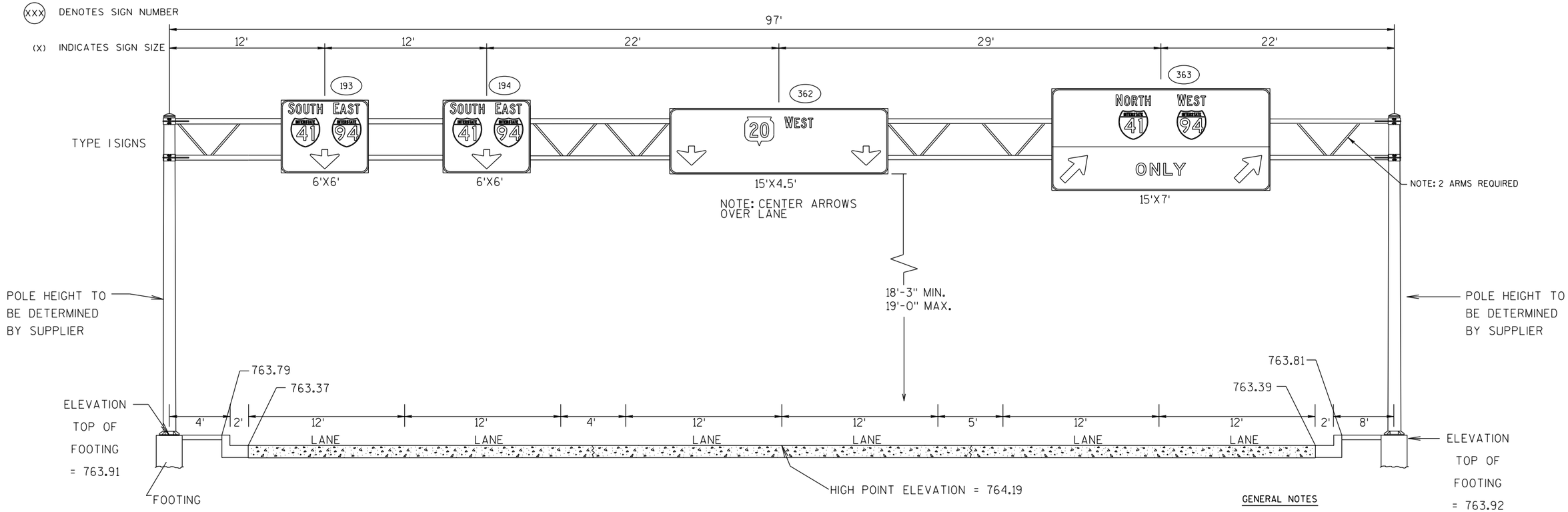
NOTE, CONTRACTOR SHALL:

1. SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT. TO TOM HEYDEL & BOS. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2. PROVIDE DESIGN CALCULATIONS.
3. SHOW SIGNS ON SHOP DRAWINGS.
4. I.D. PLAQUE INCIDENTAL TO OVERHEAD SIGN SUPPORT PER STANDARD SPEC 641.3.1.4.
5. 6 ANCHOR RODS MINIMUM PER STANDARD DETAIL DRAWING. DESIGN STRUCTURE BASE PLATE CONNECTION TO ACCOMODATE.
6. REFER TO SIGN PLATE A4-7.4 FOR ATTACHMENT OF SIGNS TO OVERHEAD SIGN SUPPORT
7. INSTALL SIGNS OR SIGN BLANKS ON OVERHEAD SIGN SUPPORTS AT THE TIME OF ERECTION AS SPECIFIED IN STANDARD SPEC 641.3.1.4.

LEGEND

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE



OVERHEAD SIGN SUPPORTS DETAIL

S-51-230
STH 20 WB AT IH41 / 94 RAMP
STA 298+00

NOTE: FOOTING SHALL BE PER STANDARD DETAIL DRAWING, 36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE & INCIDENTAL TO STRUCTURE

IBEAMS - W5X3.7 IBEAMS FOR MOUNTING SIGNS ARE INCIDENTAL TO TYPE I SIGNS

ALLOWABLE DESIGN STRESSES

CONCRETE MASONRY	FC=3500 PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	FY=60,000 PSI

FOUNDATION DATA

ALLOWABLE SOIL BEARING PRESSURE = 3000 PSF

GENERAL NOTES

1. DRAWINGS NOT TO SCALE.
2. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 6TH EDITION & INTERIM REVISIONS FATIGUE CATEGORY I CANTILEVERS.
3. THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGNS SHOWN.
4. WIND VELOCITY PER WISDOT STD SPECIFICATIONS.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

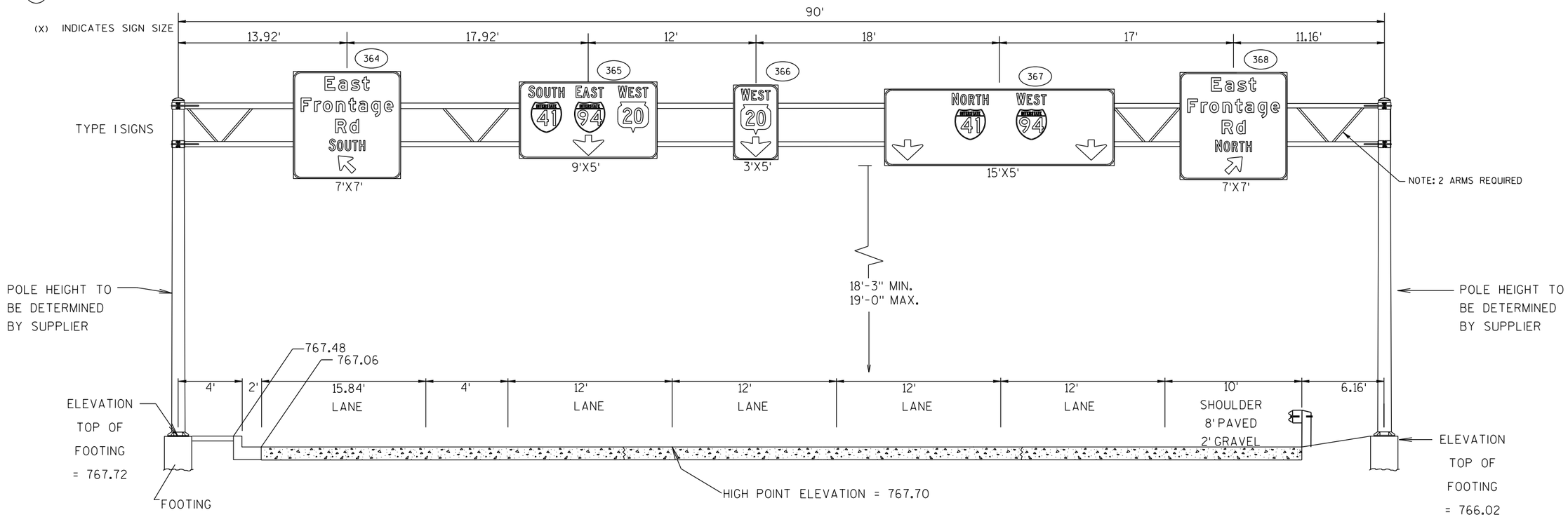
NOTE, CONTRACTOR SHALL:

1. SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT. TO TOM HEYDEL & BOS. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2. PROVIDE DESIGN CALCULATIONS.
3. SHOW SIGNS ON SHOP DRAWINGS.
4. I.D. PLAQUE INCIDENTAL TO OVERHEAD SIGN SUPPORT PER STANDARD SPEC 641.3.1.4.
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7. INSTALL SIGNS OR SIGN BLANKS ON OVERHEAD SIGN SUPPORTS AT THE TIME OF ERECTION AS SPECIFIED IN STANDARD SPEC 641.3.1.4.

LEGEND

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE



NOTE: CLEAR ZONE 18' MINIMUM FROM THRU 12' LANE

OVERHEAD SIGN SUPPORTS DETAIL

S-51-259
STH 20 WB AT EAST FRONTAGE RD
STA 308+50

NOTE: FOOTING SHALL BE PER STANDARD DETAIL DRAWING, 36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE & INCIDENTAL TO STRUCTURE

I BEAMS - W5X3.7 I BEAMS FOR MOUNTING SIGNS ARE INCIDENTAL TO TYPE I SIGNS

ALLOWABLE DESIGN STRESSES

CONCRETE MASONRY	FC=3500 PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	FY=60,000 PSI

FOUNDATION DATA

ALLOWABLE SOIL BEARING PRESSURE = 3000 PSF

GENERAL NOTES

1. DRAWINGS NOT TO SCALE.
2. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 6TH EDITION & INTERIM REVISIONS FATIGUE CATEGORY I CANTILEVERS.
3. THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGNS SHOWN.
4. WIND VELOCITY PER WISDOT STD SPECIFICATIONS.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

NOTE, CONTRACTOR SHALL:

1. SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT. TO TOM HEYDEL & BOS. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2. PROVIDE DESIGN CALCULATIONS.
3. SHOW SIGNS ON SHOP DRAWINGS.
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7. INSTALL SIGNS OR SIGN BLANKS ON OVERHEAD SIGN SUPPORTS AT THE TIME OF ERECTION AS SPECIFIED IN STANDARD SPEC 641.3.1.4.

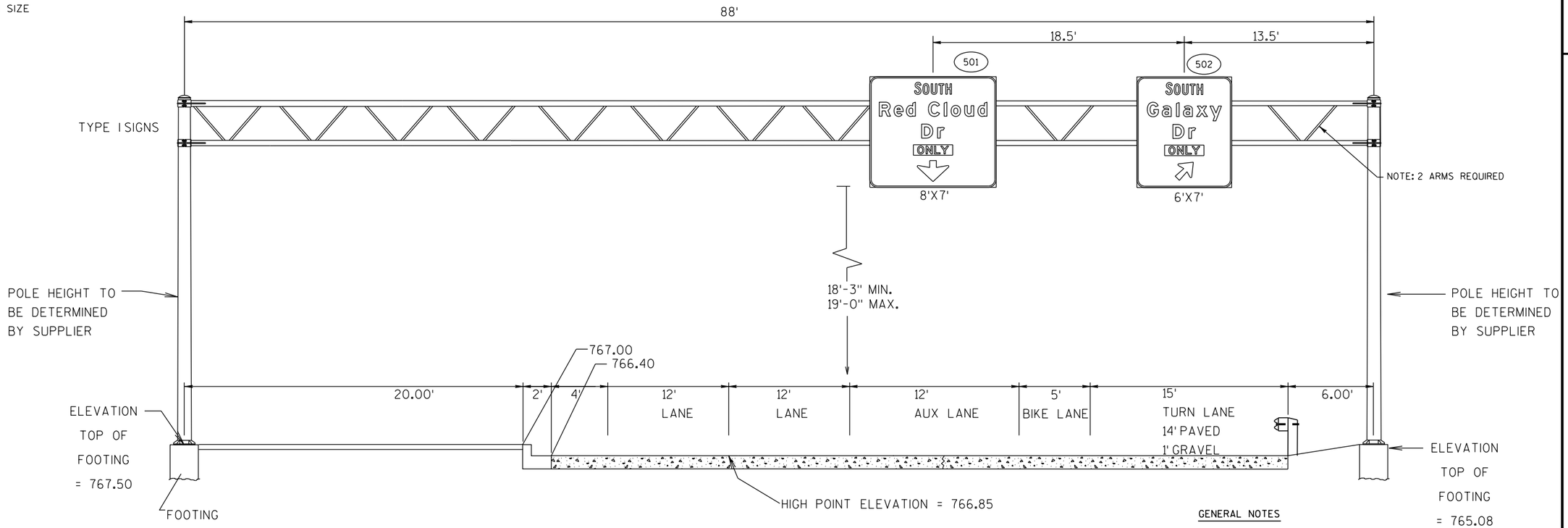
PROJECT NO: 1033-02-71/76	HWY: IH-94/STH 20	COUNTY: RACINE	OVERHEAD SIGN SUPPORT S-51-259	SHEET 68	E

FILE NAME : J:\projects\d2_10330294\71\SIGN\OVERHEADSIGN TYPICALS.dgn PLOT DATE : 13-DEC-2019 07:33 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 1.041665:1
WISDOT/CADDS SHEET 42

LEGEND

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE



OVERHEAD SIGN SUPPORTS DETAIL

S-51-260
STH 20 EB AT GALAXY DR
STA 311+25

NOTE: FOOTING SHALL BE PER STANDARD DETAIL DRAWING, 36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE & INCIDENTAL TO STRUCTURE

IBEAMS - W5X3.7 IBEAMS FOR MOUNTING SIGNS ARE INCIDENTAL TO TYPE I SIGNS

ALLOWABLE DESIGN STRESSES

CONCRETE MASONRY	FC=3500 PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	FY=60,000 PSI

FOUNDATION DATA

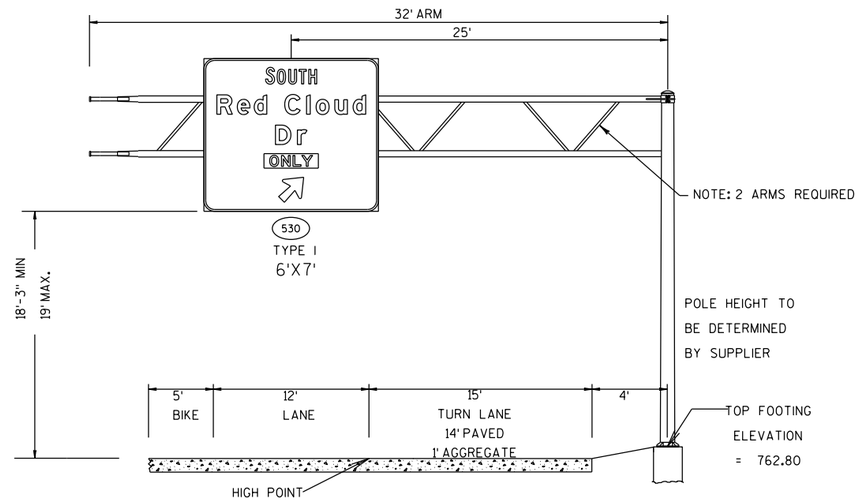
ALLOWABLE SOIL BEARING PRESSURE = 3000 PSF

GENERAL NOTES

1. DRAWINGS NOT TO SCALE.
2. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 6TH EDITION & INTERIM REVISIONS FATIGUE CATEGORY I CANTILEVERS.
3. THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGNS SHOWN.
4. WIND VELOCITY PER WISDOT STD SPECIFICATIONS.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

NOTE, CONTRACTOR SHALL:

1. SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT. TO TOM HEYDEL & BOS. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2. PROVIDE DESIGN CALCULATIONS.
3. SHOW SIGNS ON SHOP DRAWINGS.
4. I.D. PLAQUE INCIDENTAL TO OVERHEAD SIGN SUPPORT PER STANDARD SPEC 641.3.1.4.
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7. INSTALL SIGNS OR SIGN BLANKS ON OVERHEAD SIGN SUPPORTS AT THE TIME OF ERECTION AS SPECIFIED IN STANDARD SPEC 641.3.1.4.



OVERHEAD SIGN SUPPORTS DETAIL

S-51-261
STH 20 EB AT RED CLOUD DR
STA 318+25

NOTE: CLEAR ZONE 18' MINIMUM FROM THRU 12' LANE

GENERAL NOTES

1. DRAWINGS NOT TO SCALE.
2. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 6TH EDITION & INTERIM REVISIONS FATIGUE CATEGORY 1 CANTILEVERS.
3. THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGNS SHOWN.
4. WIND VELOCITY PER WISDOT STD SPECIFICATIONS.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

CONTRACTOR TO USE SDD 9C12-9a TYPE 13 BASE WITHOUT ELECTRICAL

NOTE, CONTRACTOR SHALL:

1. SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT. TO TOM HEYDEL & BOS. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2. PROVIDE DESIGN CALCULATIONS.
3. SHOW SIGNS ON SHOP DRAWINGS.
4. I.D. PLAQUE INCIDENTAL TO OVERHEAD SIGN SUPPORT PER STANDARD SPEC 641.3.1.4.
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I BEAMS - W5X3.7 I BEAMS FOR MOUNTING SIGNS ARE INCIDENTAL TO TYPE I SIGNS

GENERAL NOTES

1) ALL ITEMS ASSOCIATED WITH LIGHTING REMOVALS ARE SHOWN IN LIGHTING PLAN.

2) ALL ITEMS ASSOCIATED WITH SIGNAL REMOVALS ARE SHOWN IN SIGNAL PLAN.

3) ALL ITEMS ASSOCIATED WITH FTMS REMOVALS ARE SHOWN IN FTMS PLAN.

4) ALL ITEMS ASSOCIATED WITH PERMANENT SIGNING ARE SHOWN IN SIGNING PLAN.

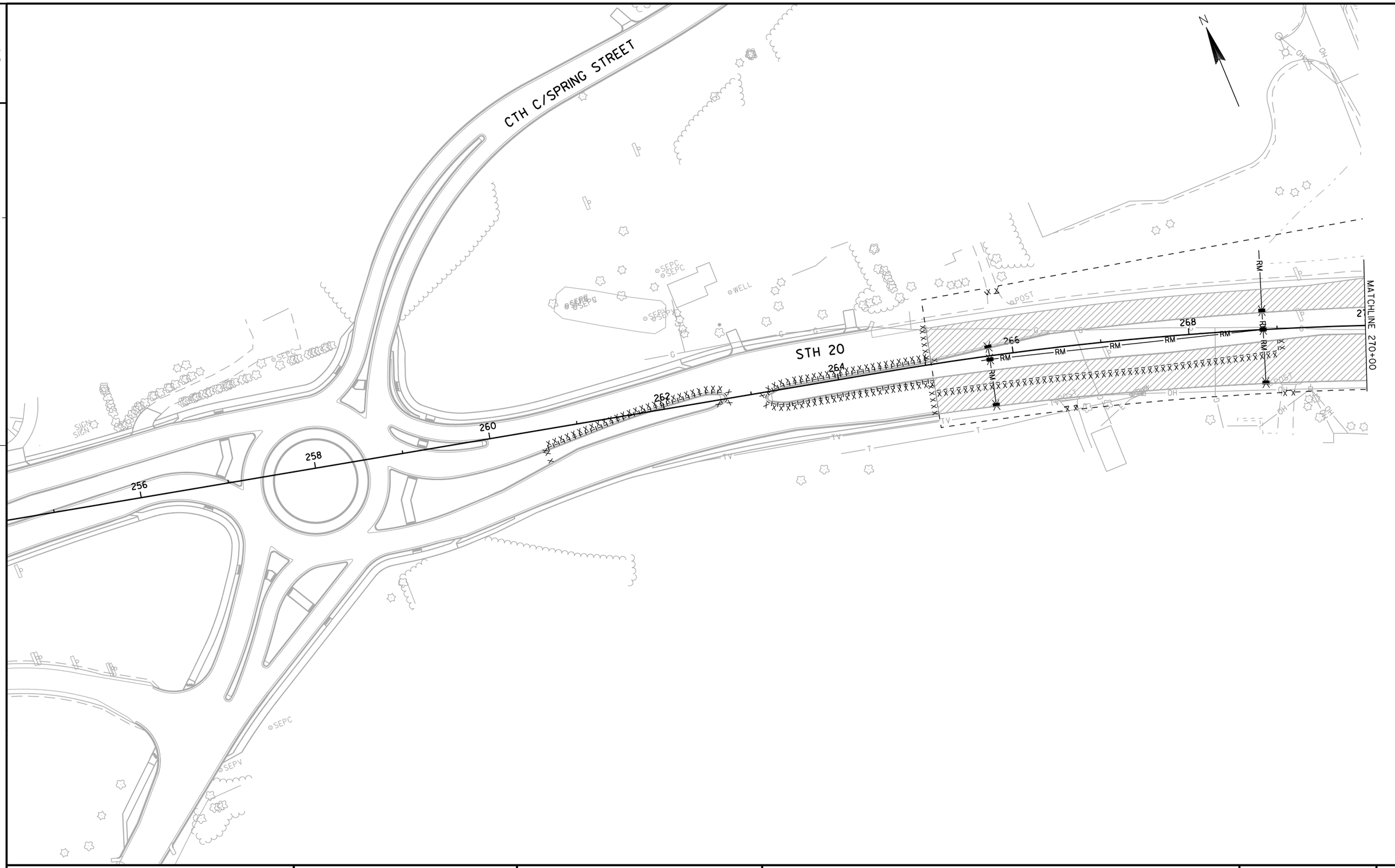
5) CLEARING AND GRUBBING SHALL BE PAID EITHER BY THE STATION OR INCH DIAMETER (I.D.)

6) FOR ADDITIONAL UTILITY INFORMATION SEE EXISTING UTILITY PLAN.

7) THE LOCATION OF THE EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN INCLUDING BUILDING SERVICES AND LATERALS.

LEGEND

- X — CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STATION)
- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB AND CUTTER
- X X X SAWING ASPHALT
- X X X SAWING CONCRETE PAVEMENT
- MAINTAIN AND REMOVE CONCRETE BARRIER TEMPORARY PRECAST
- REMOVING FENCE
- SLOPE INTERCEPT
- RM REMOVING STORM SEWER
- REMOVING INLETS
- REMOVING MANHOLES
- REMOVING CONCRETE BARRIER
- REMOVING GUARDRAIL



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\021101_rm.dgn PLOT DATE : 12-DEC-2019 02:31 PLOT BY : mscd1s PLOT NAME : 021101_rm PLOT SCALE : 100:1

2

2

GREENMONTE DRIVE

MATCHLINE 270+00

MATCHLINE 285+00

STH 20

SPOKES CIRCLE

SEWAGE TREATMENT PLANT

GOLF COURSE

REMOVING CONCRETE CHANNEL

REMOVING SMALL PIPE CULVERTS

REMOVING SMALL PIPE CULVERTS

REMOVING SMALL PIPE CULVERTS

REMOVING SURFACE DRAINS

REMOVING SMALL PIPE CULVERTS

REMOVING SMALL PIPE CULVERTS

REMOVING SMALL PIPE CULVERTS

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\021102_rm.dgn PLOT DATE : 12-DEC-2019 02:31 PLOT BY : mscd1s PLOT NAME : 021102_rm PLOT SCALE : 100:1

2

2

MATCHLINE 4868+00

MATCHLINE 868NW+00

MATCHLINE 866NE+00

WEST FRONTAGE ROAD

RAMP NW

RAMP NE

REMOVING SMALL PIPE CULVERTS

CANOPY

FILLER CAPS

REMOVING SMALL PIPE CULVERTS

STH 20

MATCHLINE 285+00

MATCHLINE 300+00

REMOVING SMALL PIPE CULVERTS

REMOVING SMALL PIPE CULVERTS

WEST FRONTAGE ROAD

REMOVING CONCRETE CHANNEL

IH 94 SB

IH 94 NB

RAMP SW

RAMP SE

REMOVING SURFACE DRAINS

REMOVING SMALL PIPE CULVERTS

RIPRAP

SPOKES CIRCLE

MATCHLINE 2861+00

MATCHLINE 859SW+00

MATCHLINE 857SE+00

N

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\021103_rm.dgn PLOT DATE : 12-DEC-2019 02:31 PLOT BY : mscdls PLOT NAME : 021103_rm PLOT SCALE : 100:1

MATCHLINE 5863+00

EAST FRONTAGE ROAD

5862

5860

5858

FILLER CAP

CANOPY

CANOPY

SIGN

FLAG

REMOVING SMALL PIPE CULVERTS

STH 20

MATCHLINE 300+00

302

304

306

308

310

312

314

MATCHLINE 315+00

REMOVING SMALL PIPE CULVERTS

REMOVING SMALL PIPE CULVERTS

EAST FRONTAGE ROAD

5856

5854

MATCHLINE 3854+00

GALAXY DRIVE

RIPRAP

CANOPY

FILLER CAPS

VACUUM

PHONE

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\021104_rm.dgn PLOT DATE : 12-DEC-2019 02:31 PLOT BY : mscd1s PLOT NAME : 021104_rm PLOT SCALE : 100:1

2

2

RED CLOUD DRIVE

MATCHLINE 315+00

MATCHLINE 330+00

STH 20

316 318 320 322 324 326 328

RM RM RM

210RC

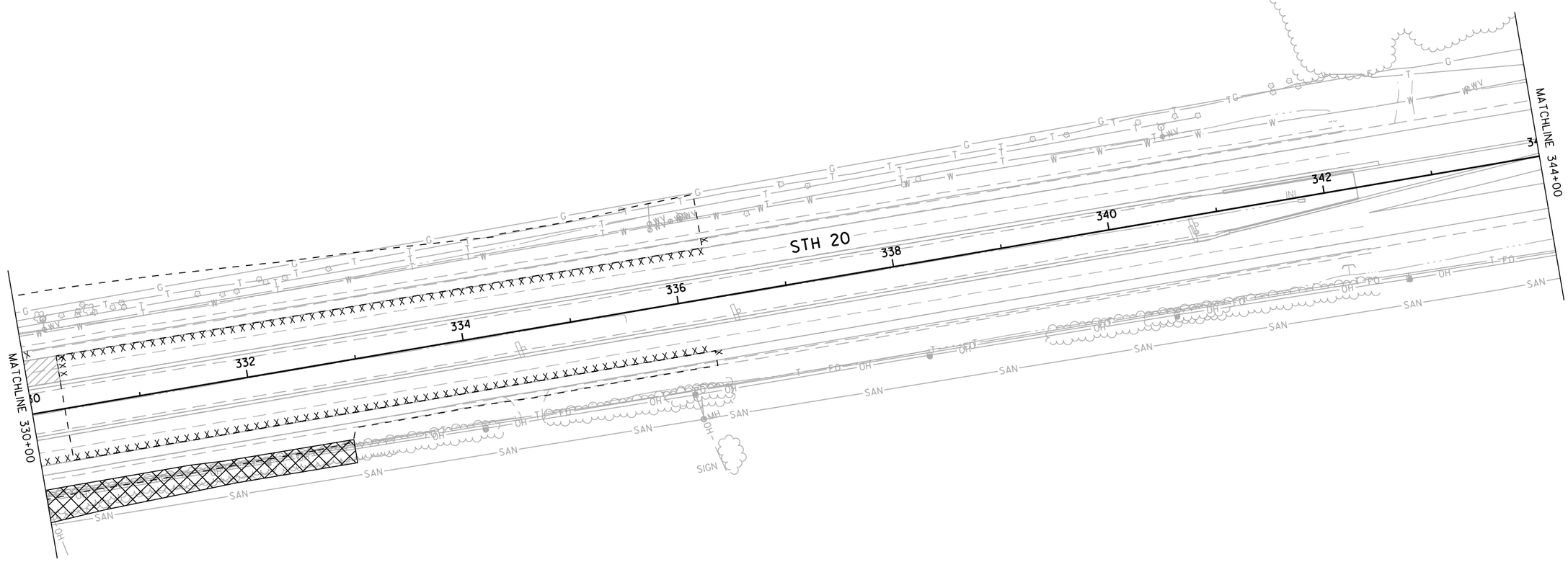
210RC

N

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\021105_rm.dgn PLOT DATE : 12-DEC-2019 02:31 PLOT BY : mscd1s PLOT NAME : 021105_rm PLOT SCALE : 100:1

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\021106_rm.dgn PLOT DATE : 12-DEC-2019 02:31 PLOT BY : mscd1s PLOT NAME : 021106_rm PLOT SCALE : 100:1

2

2

STH 20

INTERNATIONAL DRIVE

MATCHLINE 344+00

136

154

152

150

N

GREENHOUSE

SIGN

FLAG

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\021107_rm.dgn PLOT DATE : 12-DEC-2019 02:31 PLOT BY : mscd1s PLOT NAME : 021107_rm PLOT SCALE : 100:1

MATCHLINE 2861+00

REMOVING SMALL PIPE CULVERTS

REMOVING SMALL PIPE CULVERTS

2860

2858

2856

2854

2852

WEST FRONTAGE ROAD

MATCHLINE 859SW+00

REMOVING SURFACE DRAINS

859SW

858SW

856SW

854SW

852SW

850SW

848SW

RAMP SW

IH 94 SB

IH 94 NB

RAMP SE

MATCHLINE 857SE+00

REMOVING SURFACE DRAINS

858SE

856SE

854SE

852SE

850SE

848SE

856

854

852

850

N

2

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

2

2

EAST FRONTAGE ROAD

WEST FRONTAGE ROAD

RAMP NE

IH 94 NB

IH 94 SB

RAMP NW

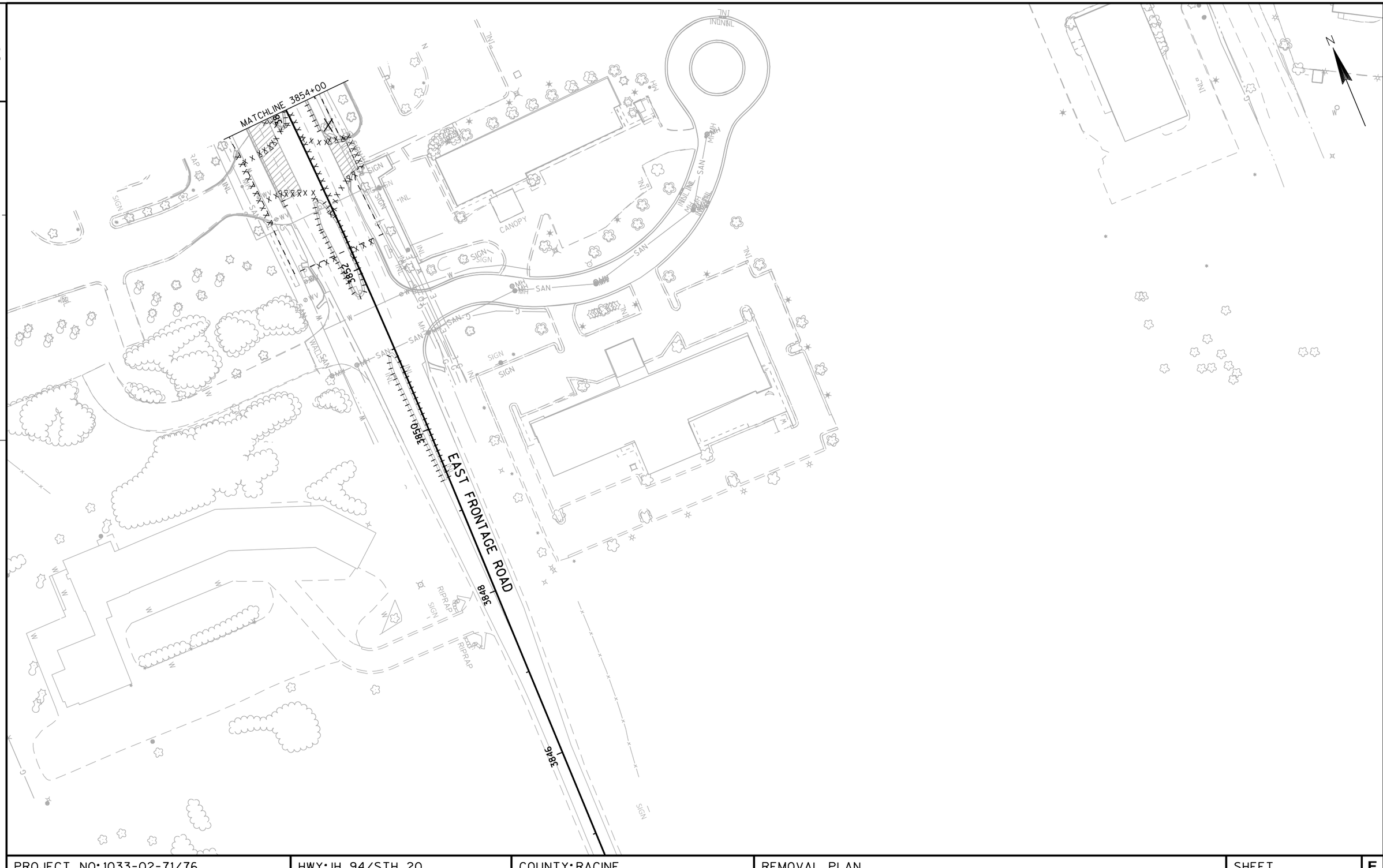
MATCHLINE 4868+00

MATCHLINE 868NW+00

MATCHLINE 866NE+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\021109_rm.dgn PLOT DATE : 12-DEC-2019 02:32 PLOT BY : mscd1s PLOT NAME : 021109_rm PLOT SCALE : 100:1



2

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

2

N

5870

5868

5866

5864

EAST FRONTAGE ROAD

KILBOURN DRIVE

MH

MH

SIGN

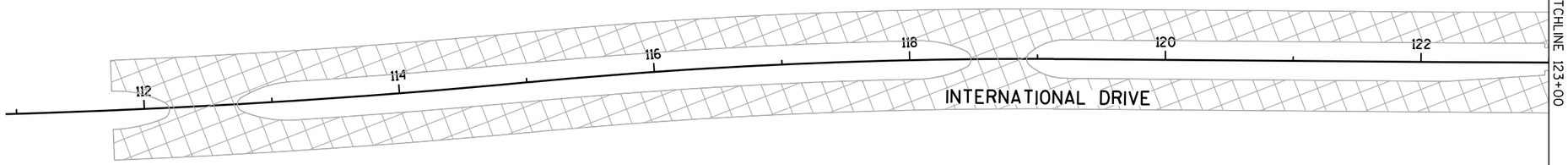
MATCHLINE 5863+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\021111_rm.dgn PLOT DATE : 12-DEC-2019 02:32 PLOT BY : mscd1s PLOT NAME : 021111_rm PLOT SCALE : 100:1

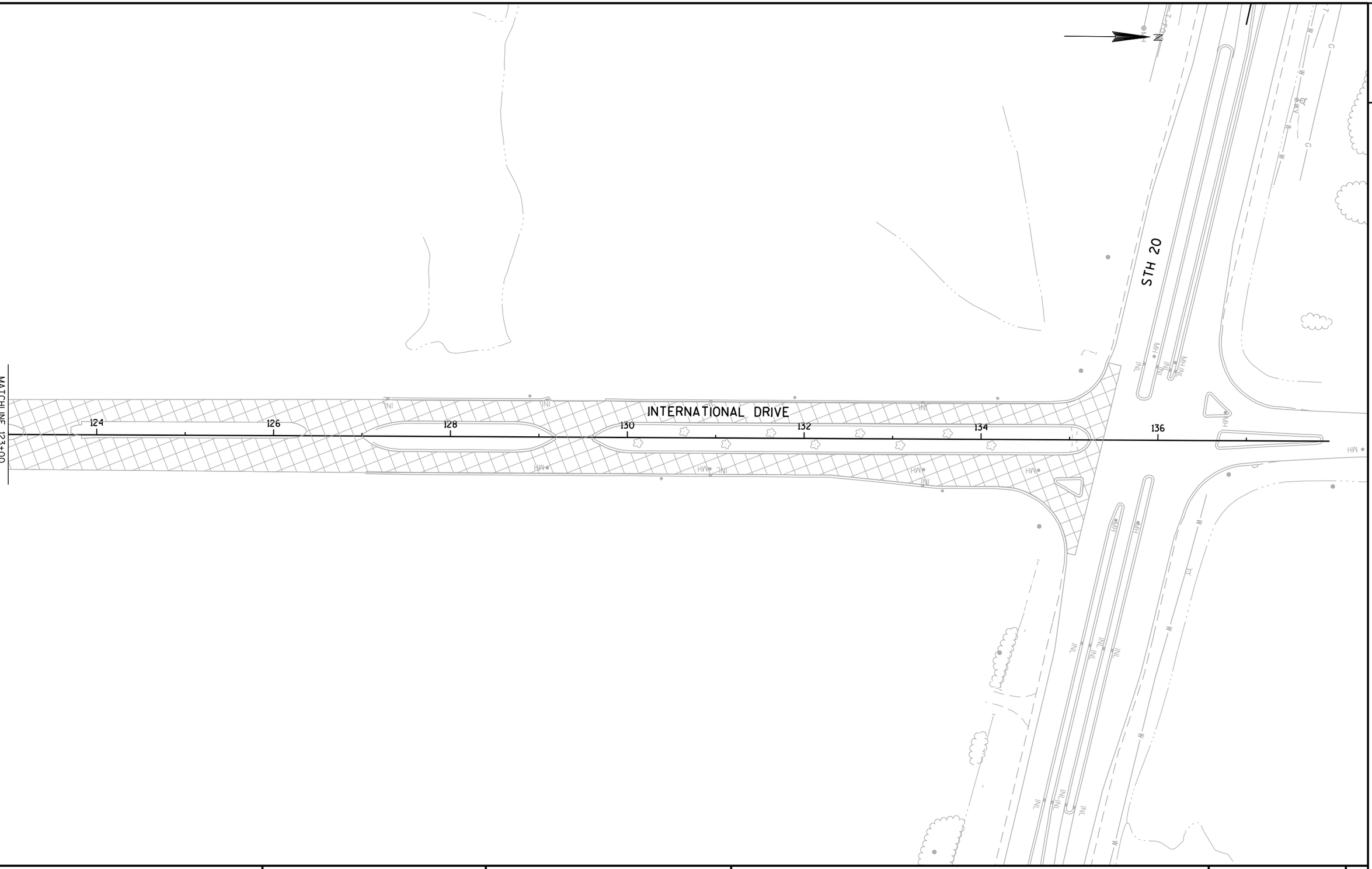
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N



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

2



2

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\021113_rm.dgn PLOT DATE : 12-DEC-2019 02:32 PLOT BY : mscd1s PLOT NAME : 021113_rm PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

LEGEND

- CP11 CONCRETE PAVEMENT 9 1/2-INCH, DOWELED AND TINED
- CP15 CONCRETE PAVEMENT 10 1/2-INCH, DOWELED AND TINED
- CP17 CONCRETE PAVEMENT 11 1/2-INCH, DOWELED AND TINED
- CP37 CONCRETE PAVEMENT 12-INCH, DOWELED

- A HMA PAVEMENT, 4 MT 58-28 S, 2-INCH OVER HMA PAVEMENT, 3 MT 58-28 S, 5 1/2-INCH
- B HMA PAVEMENT, 4 MT 58-28 H, 2-INCH

- AG01 BASE AGGREGATE DENSE 3/4-INCH

- PV03 CONCRETE SURFACE DRAINS
- PV10 ASPHALTIC SURFACE, 3-INCH

- CG03 CURB RAMP TYPE 2
- CG07 CURB RAMP TYPE 5
- CG08 CURB RAMP TYPE 6
- CG19 CONCRETE CURB AND GUTTER 18-INCH TYPE D
- CG21 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG24 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A
- CG26 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CG27 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- CG30 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- CG33 CONCRETE CURB AND GUTTER 4-INCH SLOPED 60-INCH TYPE A
- CG50 CONCRETE CURB AND GUTTER 18-INCH TYPE A
- CG57 CONCRETE CURB AND GUTTER 6-INCH SLOPED 24-INCH TYPE A

- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- CM03 CONCRETE CORRUGATED MEDIAN
- CM04 MAINTENANCE OPENING
- CM07 CONCRETE SIDEWALK 5-INCH

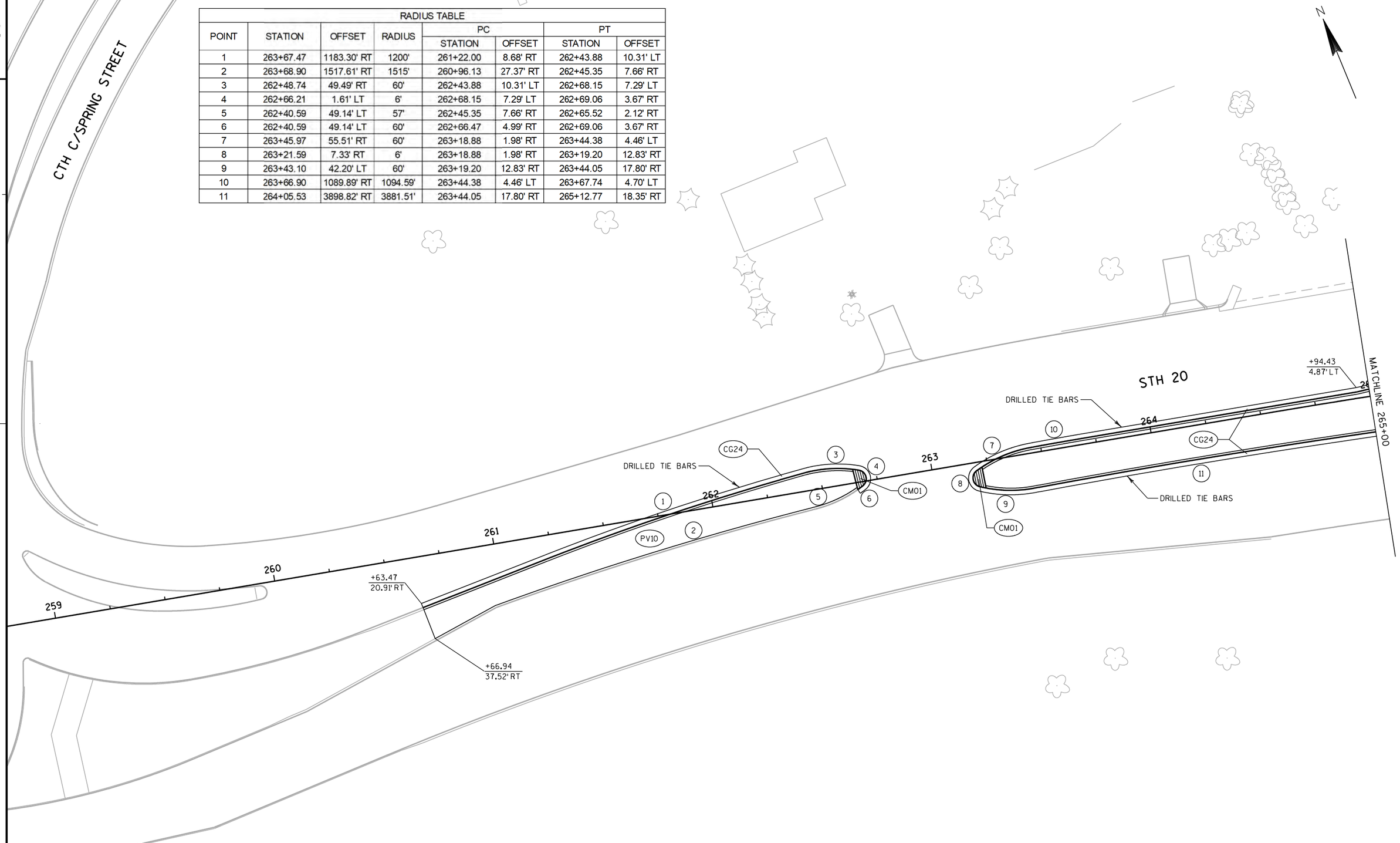
- DR01 CONCRETE DRIVEWAY 6-INCH
- DR03 CONCRETE DRIVEWAY 9-INCH
- DR04 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DR06 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- DR12 CONCRETE DRIVEWAY HES 6-INCH
- DR13 CONCRETE DRIVEWAY HES 9-INCH

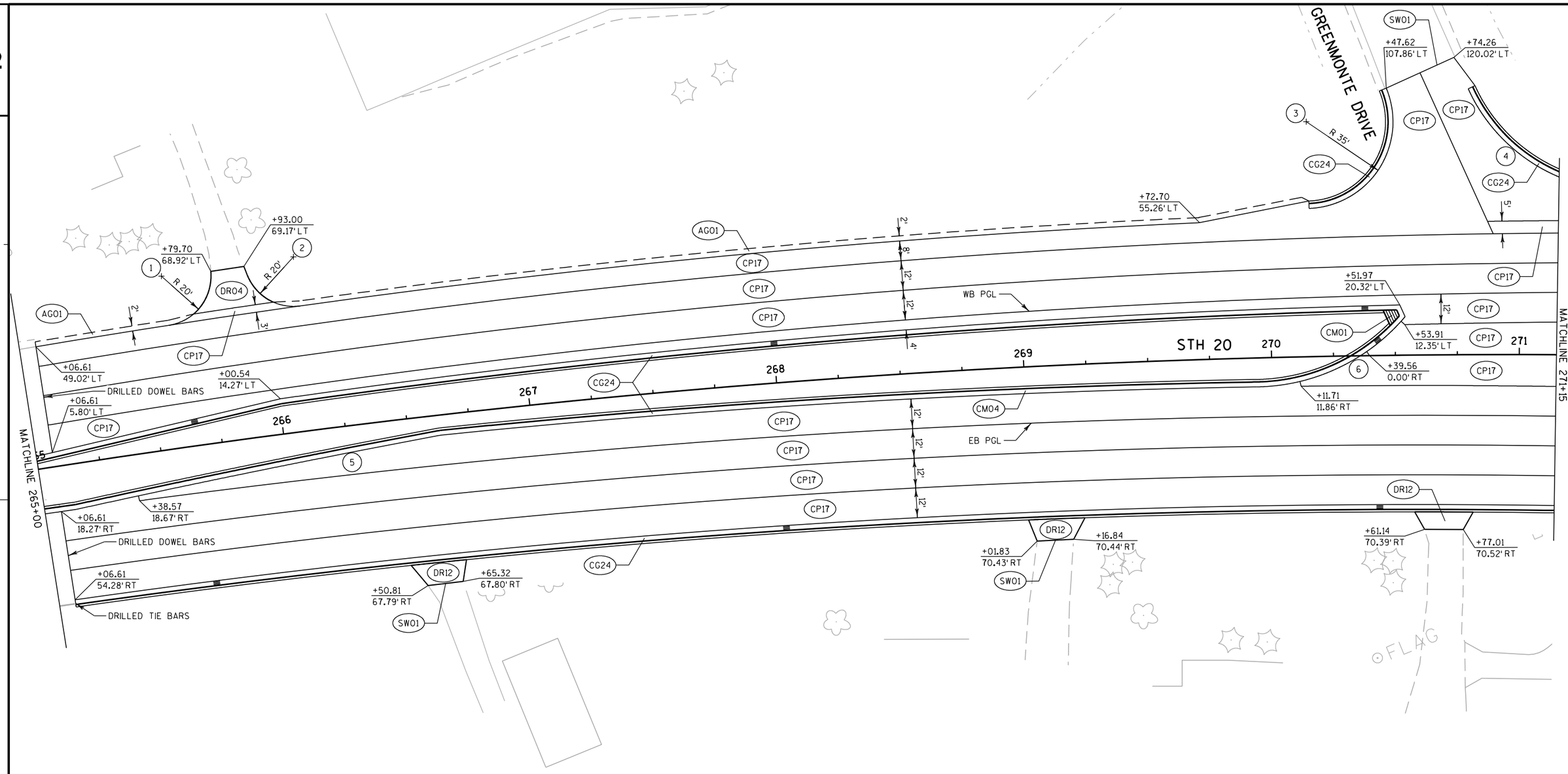
- CB02 CONCRETE BARRIER TYPE S42

- BG10 GUARD RAIL MOW STRIP ASPHALT
- BG15 MGS GUARDRAIL 3
- BG17 MGS GUARDRAIL TERMINAL EAT
- BG18 MGS GUARDRAIL TERMINAL TYPE 2
- BG24 CRASH CUSHION PERMANENT

- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE

RADIUS TABLE							
POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1	263+67.47	1183.30' RT	1200'	261+22.00	8.68' RT	262+43.88	10.31' LT
2	263+68.90	1517.61' RT	1515'	260+96.13	27.37' RT	262+45.35	7.66' RT
3	262+48.74	49.49' RT	60'	262+43.88	10.31' LT	262+68.15	7.29' LT
4	262+66.21	1.61' LT	6'	262+68.15	7.29' LT	262+69.06	3.67' RT
5	262+40.59	49.14' LT	57'	262+45.35	7.66' RT	262+65.52	2.12' RT
6	262+40.59	49.14' LT	60'	262+66.47	4.99' RT	262+69.06	3.67' RT
7	263+45.97	55.51' RT	60'	263+18.88	1.98' RT	263+44.38	4.46' LT
8	263+21.59	7.33' RT	6'	263+18.88	1.98' RT	263+19.20	12.83' RT
9	263+43.10	42.20' LT	60'	263+19.20	12.83' RT	263+44.05	17.80' RT
10	263+66.90	1089.89' RT	1094.59'	263+44.38	4.46' LT	263+67.74	4.70' LT
11	264+05.53	3898.82' RT	3881.51'	263+44.05	17.80' RT	265+12.77	18.35' RT

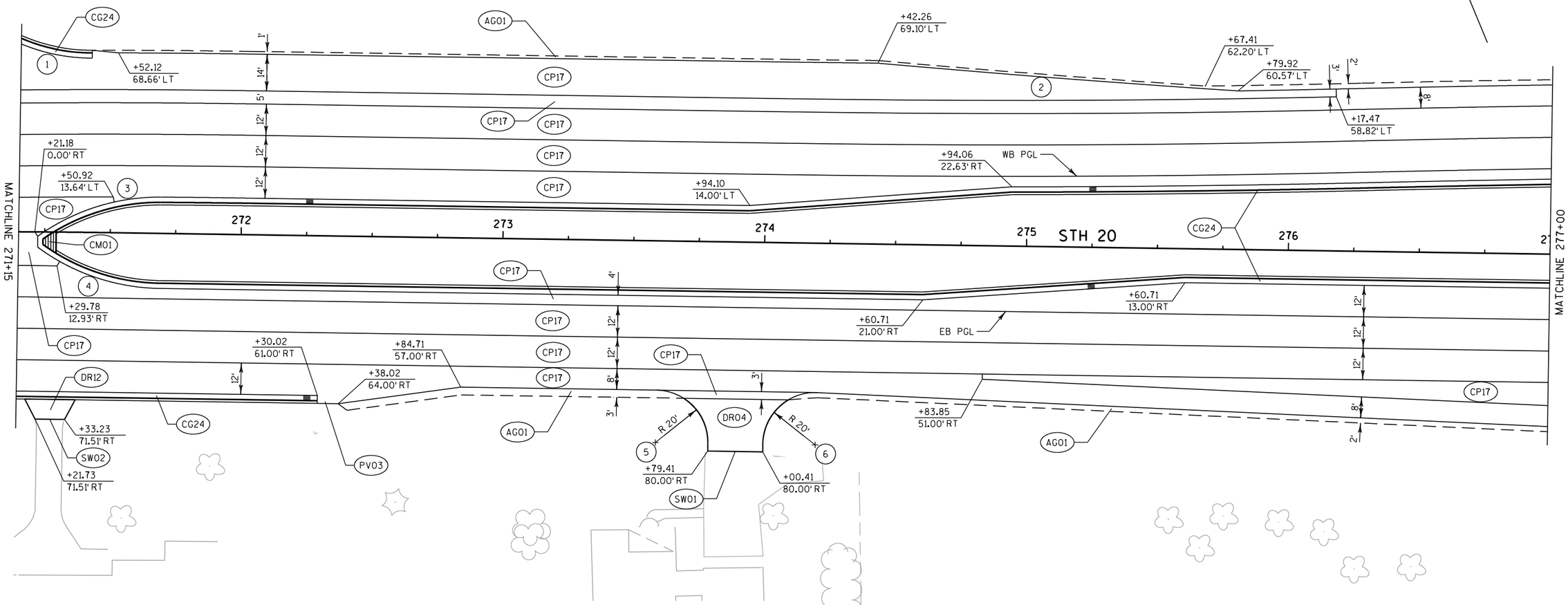




RADIUS TABLE							
POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1	265+60.07	69.73' LT	20'	265+60.33	49.73' LT	265+79.70	68.92' LT
2	266+12.93	70.44' LT	20'	265+93.87	55.60' LT	266+13.19	50.44' LT
3	270+15.97	94.85' LT	35'	270+16.42	59.85' LT	270+47.62	107.86' LT
4	271+41.44	136.53' LT	70'	270+79.79	107.32' LT	271+42.33	66.53' LT
5	275+55.36	4450.49' RT	4500'	265+12.77	18.35' RT	266+62.99	8.15' RT
6	269+94.61	68.31' LT	80'	269+93.84	11.68' RT	270+54.09	15.55' LT

NOTE
SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR EB AND WB LANE LAYOUTS

2



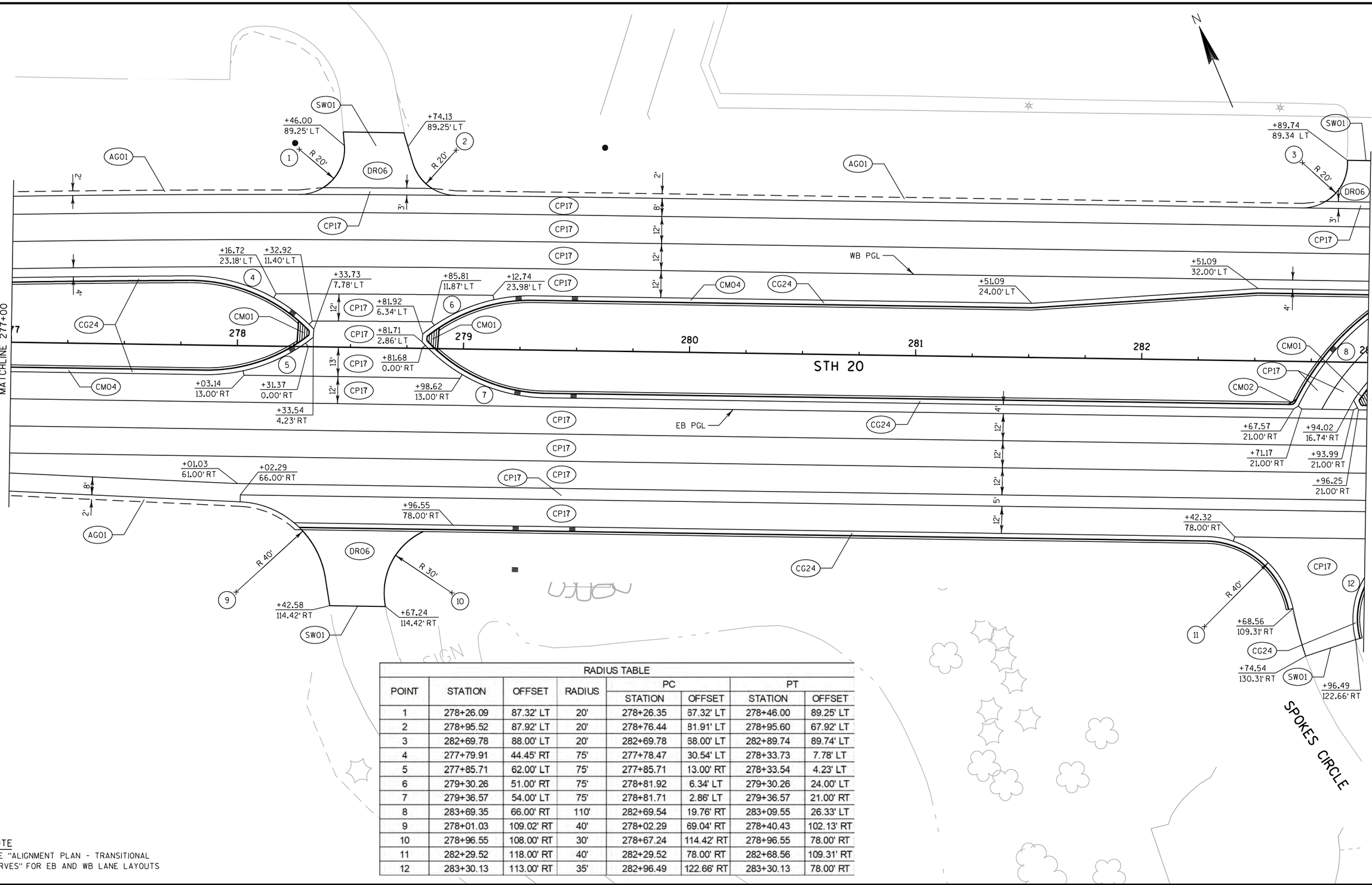
NOTE
SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR EB AND WB LANE LAYOUTS

RADIUS TABLE

POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1	271+41.44	136.53' LT	70'	270+79.79	107.32' LT	271+42.33	66.53' LT
2	278+63.57	5753.50' LT	5700'	274+42.26	69.10' LT	275+79.92	60.57' LT
3	271+69.81	66.15' RT	80'	271+22.30	1.66' RT	271+69.10	13.85' LT
4	271+69.10	59.00' LT	80'	271+22.29	5.79' RT	271+69.10	21.00' RT
5	273+59.41	77.00' RT	20'	273+59.41	57.00' RT	273+79.41	77.00' RT
6	274+20.41	77.01' RT	20'	274+00.41	77.01' RT	274+21.04	57.02' RT

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

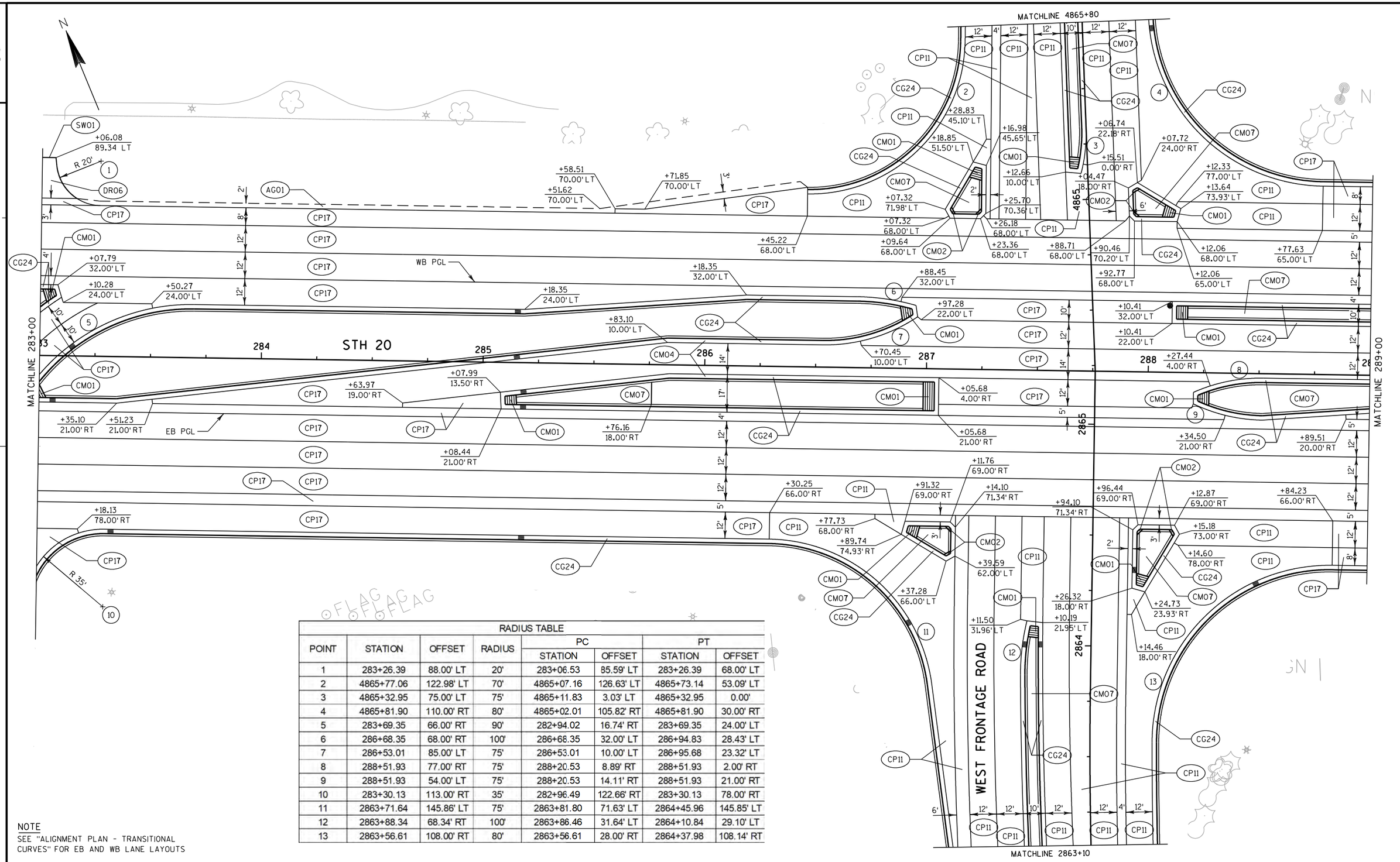
2



RADIUS TABLE							
POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1	278+26.09	87.32' LT	20'	278+26.35	87.32' LT	278+46.00	89.25' LT
2	278+95.52	87.92' LT	20'	278+76.44	81.91' LT	278+95.60	67.92' LT
3	282+69.78	88.00' LT	20'	282+69.78	68.00' LT	282+89.74	89.74' LT
4	277+79.91	44.45' RT	75'	277+78.47	30.54' LT	278+33.73	7.78' LT
5	277+85.71	62.00' LT	75'	277+85.71	13.00' RT	278+33.54	4.23' LT
6	279+30.26	51.00' RT	75'	278+81.92	6.34' LT	279+30.26	24.00' LT
7	279+36.57	54.00' LT	75'	278+81.71	2.86' LT	279+36.57	21.00' RT
8	283+69.35	66.00' RT	110'	282+69.54	19.76' RT	283+09.55	26.33' LT
9	278+01.03	109.02' RT	40'	278+02.29	69.04' RT	278+40.43	102.13' RT
10	278+96.55	108.00' RT	30'	278+67.24	114.42' RT	278+96.55	78.00' RT
11	282+29.52	118.00' RT	40'	282+29.52	78.00' RT	282+68.56	109.31' RT
12	283+30.13	113.00' RT	35'	282+96.49	122.66' RT	283+30.13	78.00' RT

NOTE
SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR EB AND WB LANE LAYOUTS

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

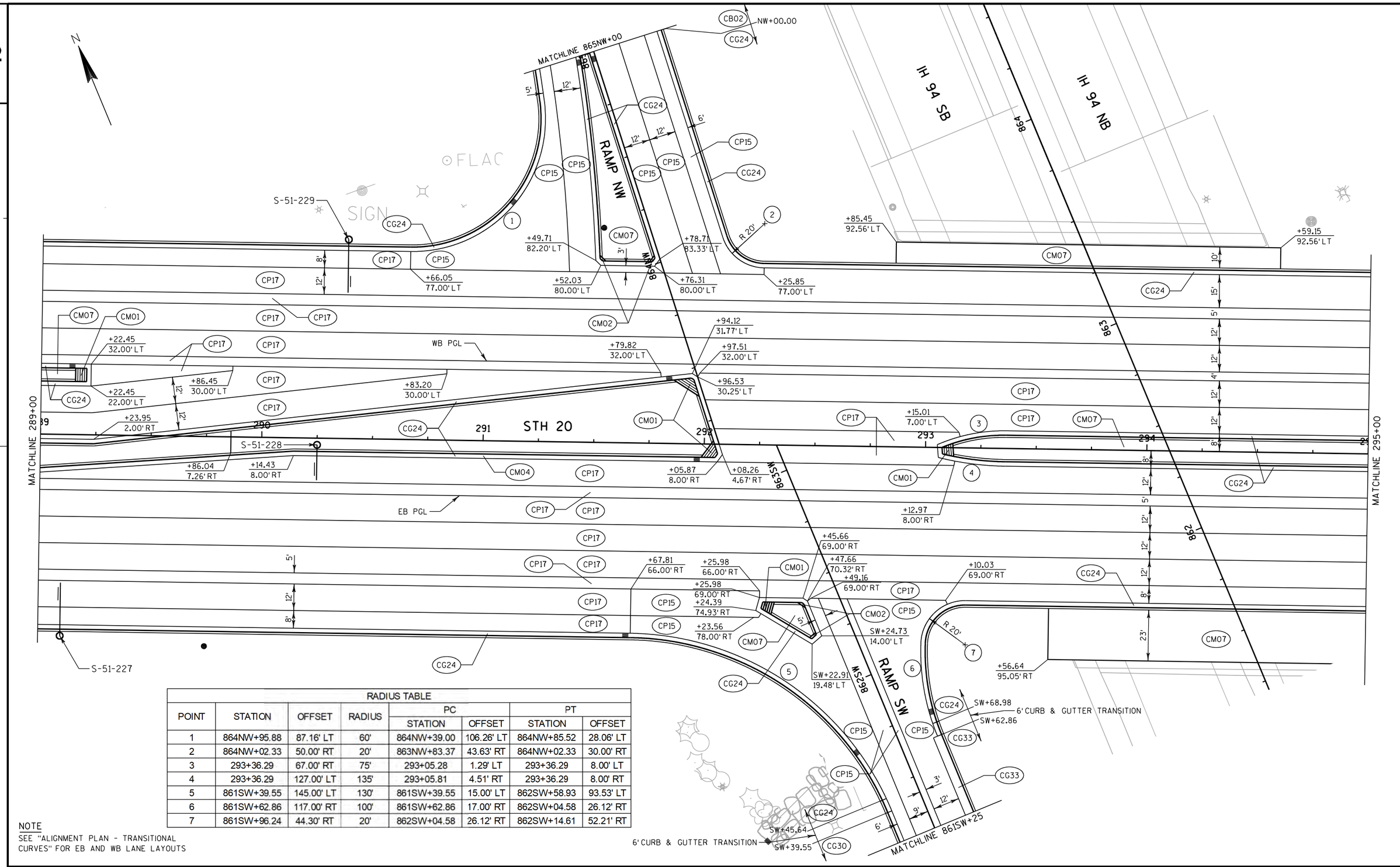


RADIUS TABLE							
POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1	283+26.39	88.00' LT	20'	283+06.53	85.59' LT	283+26.39	68.00' LT
2	4865+77.06	122.98' LT	70'	4865+07.16	126.63' LT	4865+73.14	53.09' LT
3	4865+32.95	75.00' LT	75'	4865+11.83	3.03' LT	4865+32.95	0.00'
4	4865+81.90	110.00' RT	80'	4865+02.01	105.82' RT	4865+81.90	30.00' RT
5	283+69.35	66.00' RT	90'	282+94.02	16.74' RT	283+69.35	24.00' LT
6	286+68.35	68.00' RT	100'	286+68.35	32.00' LT	286+94.83	28.43' LT
7	286+53.01	85.00' LT	75'	286+53.01	10.00' LT	286+95.68	23.32' LT
8	288+51.93	77.00' RT	75'	288+20.53	8.89' RT	288+51.93	2.00' RT
9	288+51.93	54.00' LT	75'	288+20.53	14.11' RT	288+51.93	21.00' RT
10	283+30.13	113.00' RT	35'	282+96.49	122.66' RT	283+30.13	78.00' RT
11	2863+71.64	145.86' LT	75'	2863+81.80	71.63' LT	2864+45.96	145.85' LT
12	2863+88.34	68.34' RT	100'	2863+86.46	31.64' LT	2864+10.84	29.10' LT
13	2863+56.61	108.00' RT	80'	2863+56.61	28.00' RT	2864+37.98	108.14' RT

NOTE
SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR EB AND WB LANE LAYOUTS

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

2



RADIUS TABLE							
POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1	864NW+95.88	87.16' LT	60'	864NW+39.00	106.26' LT	864NW+85.52	28.06' LT
2	864NW+02.33	50.00' RT	20'	863NW+83.37	43.63' RT	864NW+02.33	30.00' RT
3	293+36.29	67.00' RT	75'	293+05.28	1.29' LT	293+36.29	8.00' LT
4	293+36.29	127.00' LT	135'	293+05.81	4.51' RT	293+36.29	8.00' RT
5	861SW+39.55	145.00' LT	130'	861SW+39.55	15.00' LT	862SW+58.93	93.53' LT
6	861SW+62.86	117.00' RT	100'	861SW+62.86	17.00' RT	862SW+04.58	26.12' RT
7	861SW+96.24	44.30' RT	20'	862SW+04.58	26.12' RT	862SW+14.61	52.21' RT

NOTE
SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR EB AND WB LANE LAYOUTS

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

2

RADIUS TABLE							
POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1	862NE+10.81	38.00' LT	20'	861NE+90.81	37.91' LT	862NE+10.81	18.00' LT
2	862NE+96.19	118.49' RT	111'	861NE+95.50	115.76' RT	862NE+70.71	11.00' RT
3	863NE+06.38	141.00' RT	120'	862NE+00.59	137.07' RT	863NE+06.25	21.00' RT
4	295+40.29	67.00' LT	75'	295+40.29	8.00' RT	295+77.64	1.97' LT
5	860SE+78.41	34.00' LT	10'	860SE+78.41	24.00' LT	860SE+88.40	33.58' LT
6	859SE+30.75	131.36' RT	100'	859SE+46.56	32.23' RT	860SE+62.40	136.53' RT

MATCHLINE 863NE+00

RAMP NE

862NE

AG01

CP15

CP17

CP11

CG24

CG27

CM07

CM02

CM01

PV03

SEE "BIKE REFUGE DETAIL" CONSTRUCTION DETAIL

S-51-230

NE+70.71 11.00' RT

NE+41.19 11.00' RT

NE+20.74 11.00' RT

NE+04.54 9.00' RT

NE+02.56 8.70' RT

NE+20.81 18.00' LT

NE+99.84 4.59' RT

R 20'

+69.61 73.93' LT

+81.61 67.00' LT

+92.43 65.00' LT

+37.14 70.03' LT

+39.41 68.00' LT

+68.02 68.00' LT

NE+73.39 92.70' RT

NE+71.59 137.20' RT

+78.28 89.00' LT

WB PGL

EB PGL

STH 20

MATCHLINE 295+00

MATCHLINE 301+00

296

297

298

299

300

+76.17 8.00' LT

+51.63 5.66' LT

+53.97 8.00' LT

+61.57 7.00' RT

+51.63 18.66' RT

+50.29 20.00' RT

+72.41 21.00' RT

+97.49 21.00' RT

+53.97 21.00' RT

+31.90 8.00' LT

+56.42 30.00' LT

+97.41 13.00' LT

+72.97 19.00' RT

+43.98 13.32' RT

+44.29 21.00' RT

+48.09 18.00' RT

861SE

+22.33 69.00' RT

+51.78 69.00' RT

+49.41 71.46' RT

+73.24 66.00' RT

+73.24 69.00' RT

+75.64 71.82' RT

+74.65 78.00' RT

+67.07 78.00' RT

+87.17 78.00' RT

+36.21 95.05' RT

R 10'

860SE

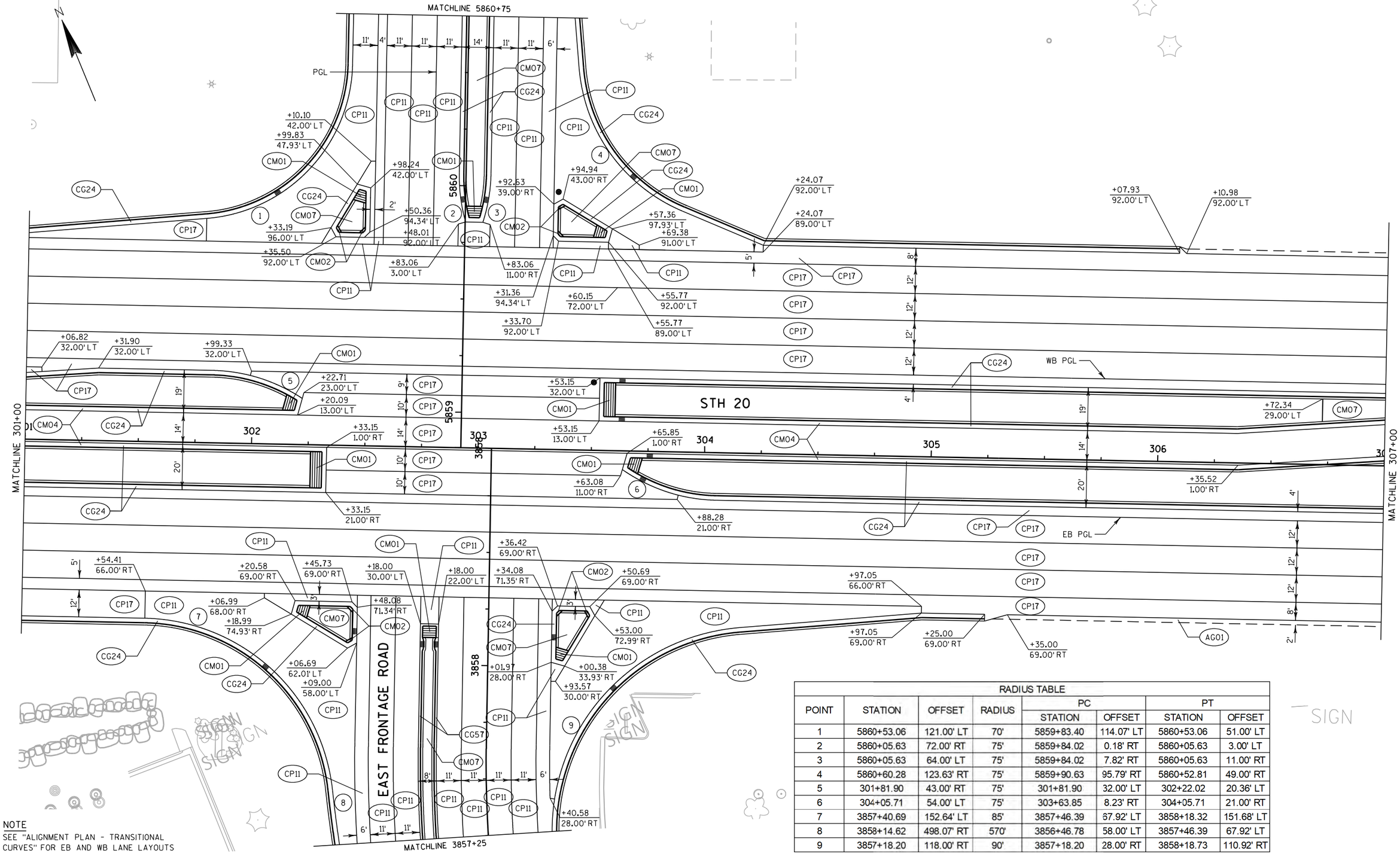
RAMP SE

MATCHLINE 859SE+75

NOTE
SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR EB AND WB LANE LAYOUTS

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

2



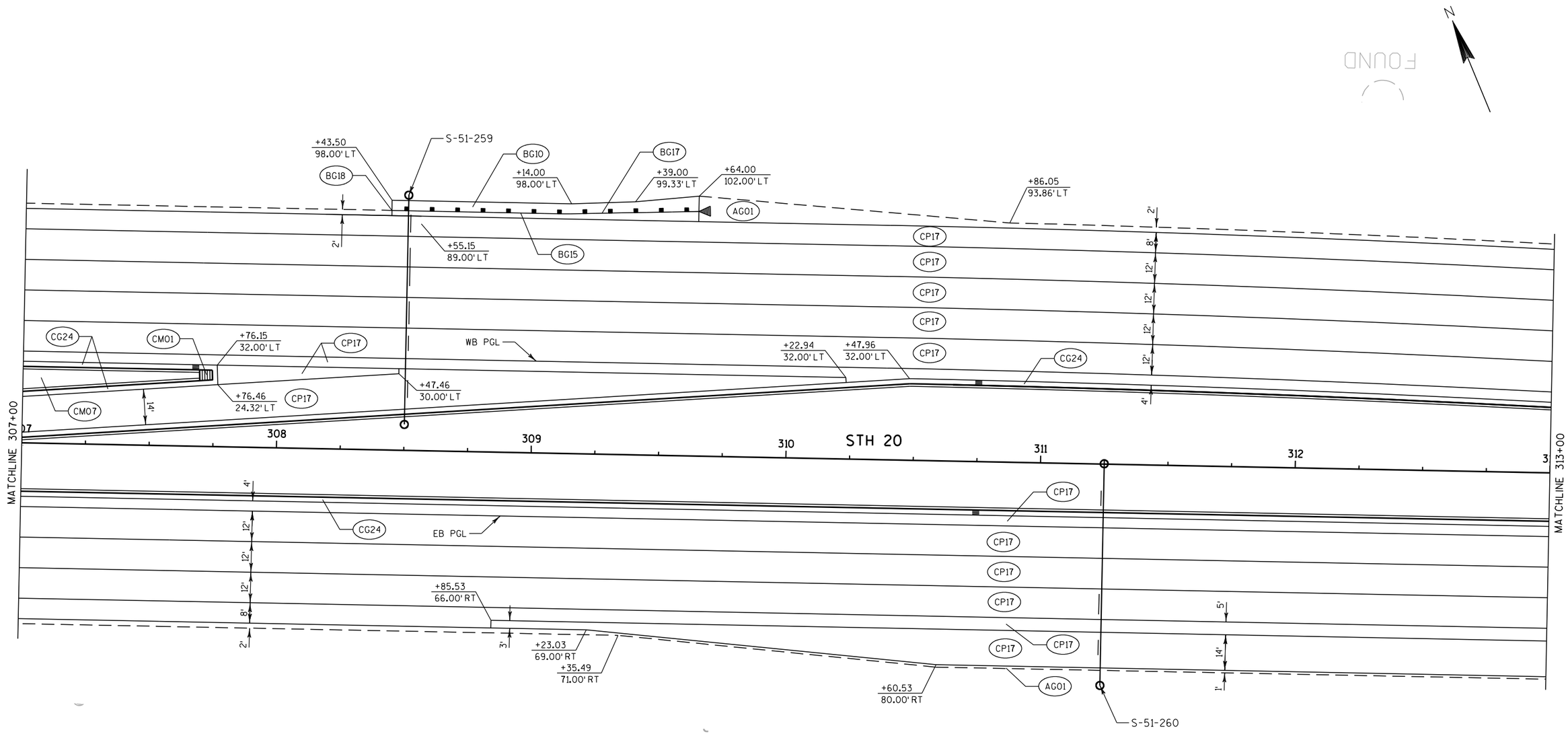
NOTE
SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR EB AND WB LANE LAYOUTS

RADIUS TABLE

POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1	5860+53.06	121.00' LT	70'	5859+83.40	114.07' LT	5860+53.06	51.00' LT
2	5860+05.63	72.00' RT	75'	5859+84.02	0.18' RT	5860+05.63	3.00' LT
3	5860+05.63	64.00' LT	75'	5859+84.02	7.82' RT	5860+05.63	11.00' RT
4	5860+60.28	123.63' RT	75'	5859+90.63	95.79' RT	5860+52.81	49.00' RT
5	301+81.90	43.00' RT	75'	301+81.90	32.00' LT	302+22.02	20.36' LT
6	304+05.71	54.00' LT	75'	303+63.85	8.23' RT	304+05.71	21.00' RT
7	3857+40.69	152.64' LT	85'	3857+46.39	67.92' LT	3858+18.32	151.68' LT
8	3858+14.62	498.07' RT	570'	3856+46.78	58.00' LT	3857+46.39	67.92' LT
9	3857+18.20	118.00' RT	90'	3857+18.20	28.00' RT	3858+18.73	110.92' RT

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

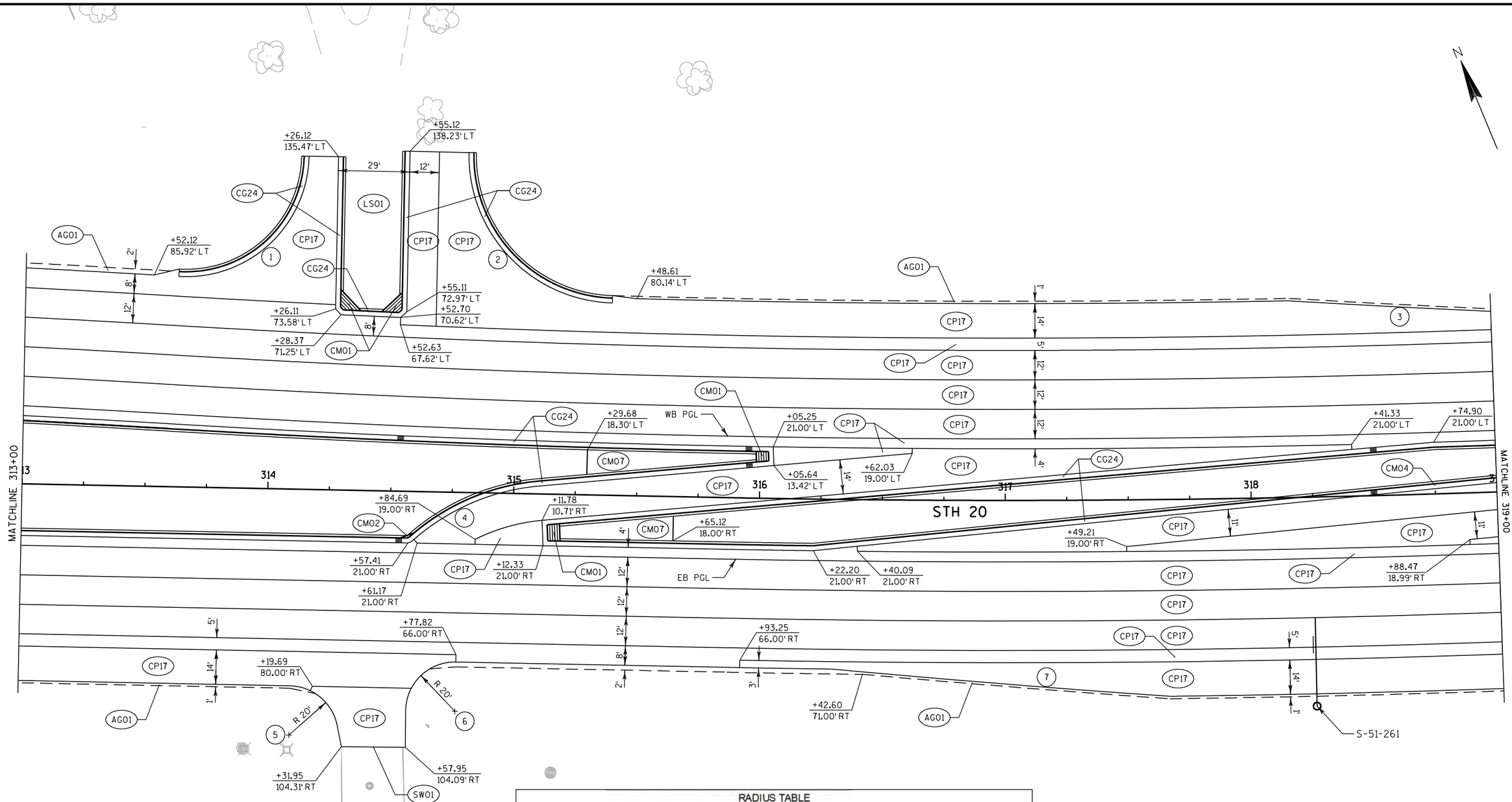
2



NOTE
SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR EB AND WB LANE LAYOUTS

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

2

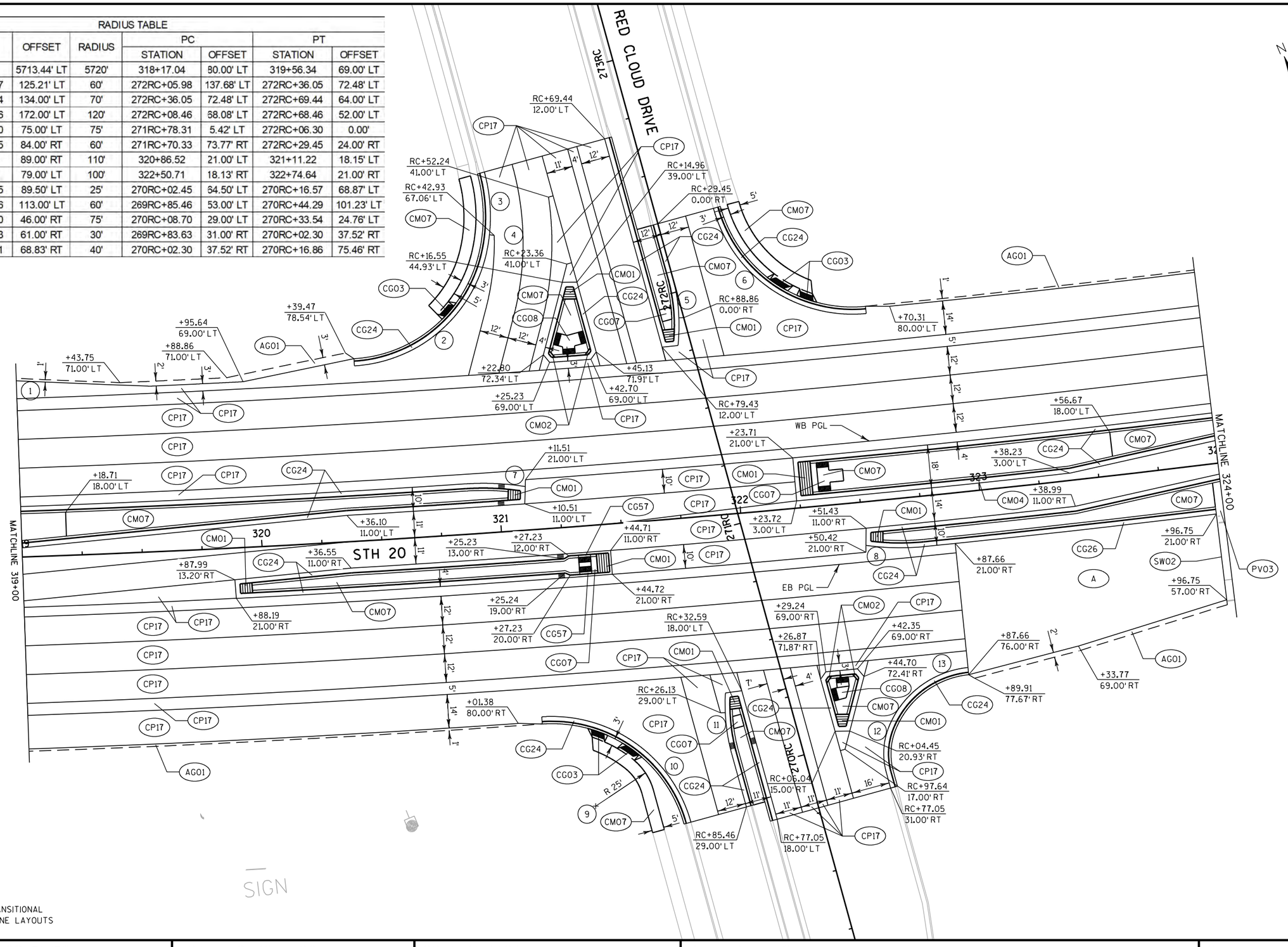


RADIUS TABLE							
POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1	313+64.12	135.48' LT	50'	313+62.12	85.52' LT	314+14.12	135.47' LT
2	315+39.12	138.21' LT	60'	314+79.12	138.23' LT	315+38.60	78.22' LT
3	331+31.31	5713.44' LT	5720'	318+17.04	80.00' LT	319+56.34	69.00' LT
4	315+19.79	85.28' RT	89'	314+58.82	20.45' RT	315+10.29	3.21' LT
5	314+10.53	100.00' RT	20'	314+10.53	80.00' RT	314+30.06	95.71' RT
6	314+77.82	89.00' RT	20'	314+57.82	89.17' RT	314+77.82	69.00' RT
7	331+24.95	5629.06' LT	5800'	316+30.29	69.00' RT	317+66.06	80.00' RT

NOTE
SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR EB AND WB LANE LAYOUTS

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

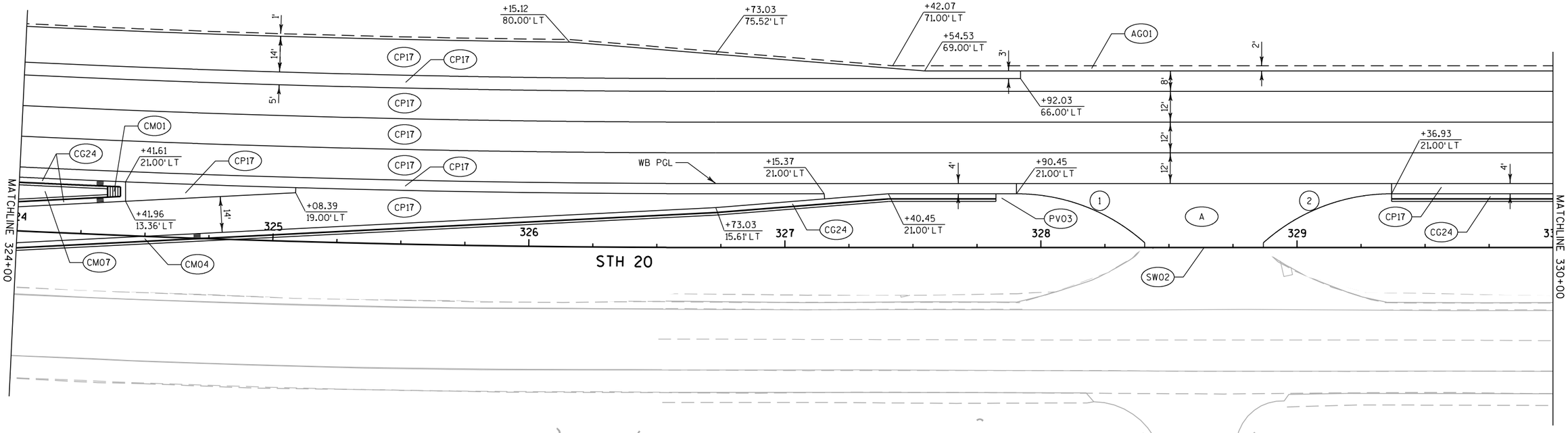
RADIUS TABLE							
POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1	331+31.31	5713.44' LT	5720'	318+17.04	80.00' LT	319+56.34	69.00' LT
2	272RC+64.67	125.21' LT	60'	272RC+05.98	137.68' LT	272RC+36.05	72.48' LT
3	272RC+69.44	134.00' LT	70'	272RC+36.05	72.48' LT	272RC+69.44	64.00' LT
4	272RC+68.46	172.00' LT	120'	272RC+08.46	68.08' LT	272RC+68.46	52.00' LT
5	272RC+06.30	75.00' LT	75'	271RC+78.31	5.42' LT	272RC+06.30	0.00'
6	272RC+29.45	84.00' RT	60'	271RC+70.33	73.77' RT	272RC+29.45	24.00' RT
7	320+86.52	89.00' RT	110'	320+86.52	21.00' LT	321+11.22	18.15' LT
8	322+74.64	79.00' LT	100'	322+50.71	18.13' RT	322+74.64	21.00' RT
9	270RC+02.45	89.50' LT	25'	270RC+02.45	84.50' LT	270RC+16.57	68.87' LT
10	269RC+85.46	113.00' LT	60'	269RC+85.46	53.00' LT	270RC+44.29	101.23' LT
11	270RC+08.70	46.00' RT	75'	270RC+08.70	29.00' LT	270RC+33.54	24.76' LT
12	269RC+83.63	61.00' RT	30'	269RC+83.63	31.00' RT	270RC+02.30	37.52' RT
13	269RC+77.41	68.83' RT	40'	270RC+02.30	37.52' RT	270RC+16.86	75.46' RT



NOTE
SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR EB AND WB LANE LAYOUTS

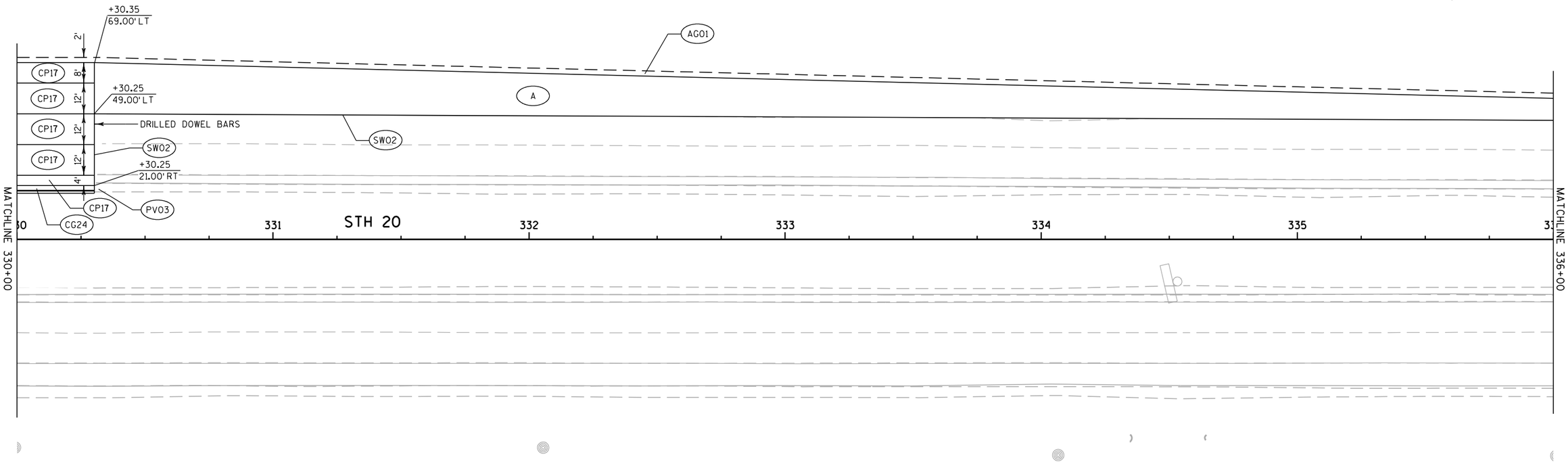
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

2



RADIUS TABLE							
POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1	327+90.45	54.00' RT	75'	327+90.45	21.00' LT	328+40.55	1.81' LT
2	329+36.93	54.00' RT	75'	328+86.84	1.81' LT	329+36.93	21.00' LT

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

2

N

AG01

+30.25
54.32' LT

A

+30.25
46.32' LT

SW02

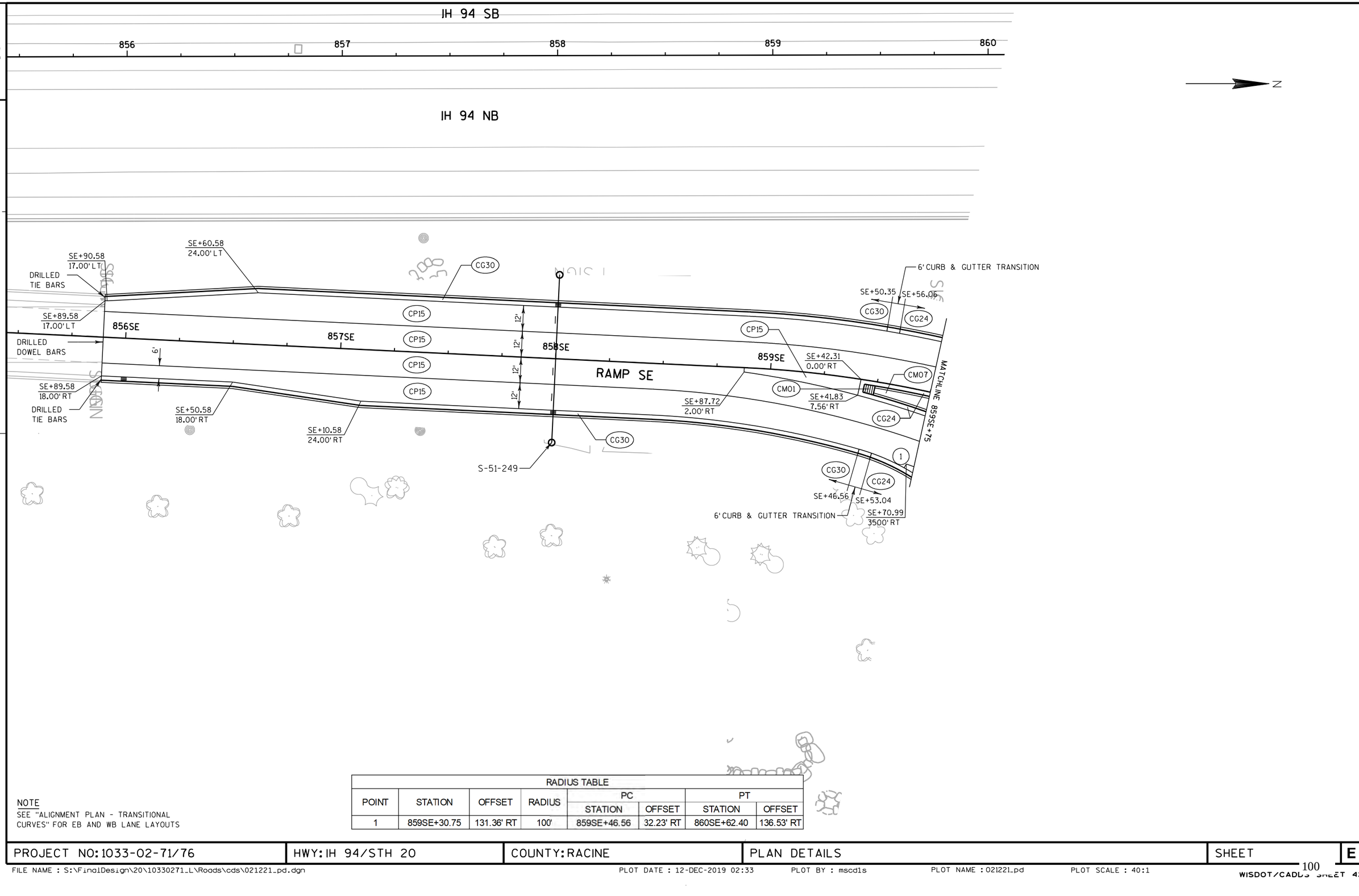
MATCHLINE 336+00

336 337 338 339 340 341 342

STH 20

GN

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E



NOTE
SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR EB AND WB LANE LAYOUTS

RADIUS TABLE							
POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1	859SE+30.75	131.36' RT	100'	859SE+46.56	32.23' RT	860SE+62.40	136.53' RT

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

2

N

SIGN

SIGN

SIGN

AG01

CG30

CG33

CP15

CP15

CP15

SW+56.91
14.00' LT

SW+15.00
14.00' LT

SW+30.00
15.00' LT

SW+56.91
15.00' RT

5'

3'

6'

12'

12'

3'

DRILLED DOWEL BARS

DRILLED TIE BARS

RAMP SW

856SW

857SW

858SW

859SW

860SW

861SW

MATCHLINE 861SW+25

IH 94 SB

IH 94 NB

856

857

858

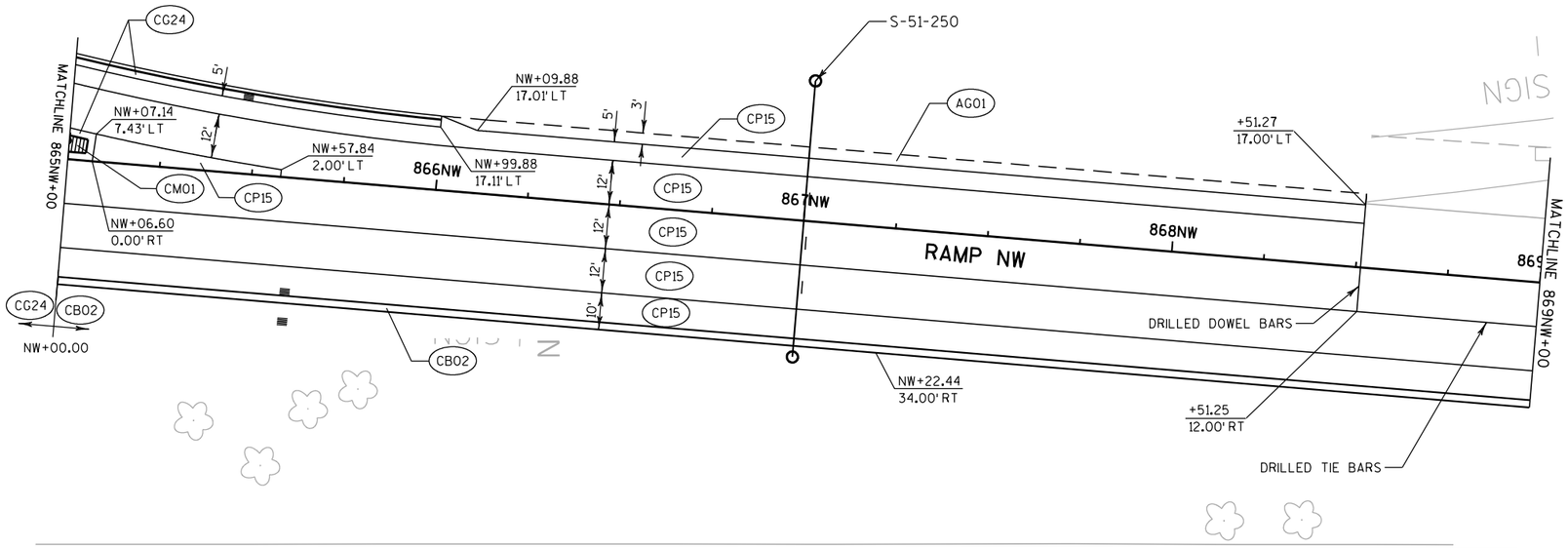
859

860

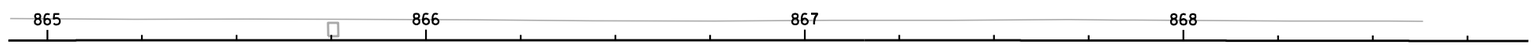
861

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

2



IH 94 SB



IH 94 NB

NOTE
SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR EB AND WB LANE LAYOUTS

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

2

N

MATCHLINE 869NW+00

DRILLED TIE BARS

CP15

870NW

871NW

872NW

RAMP NW

873NW

874NW

875NW

12'

12'

10'

CP15

CP15

CB02

NW+52.79
12.00' RT

DRILLED DOWEL BARS

DRILLED TIE BARS

NW+55.77
15.00' RT

DRILLED DOWEL BARS

4'

NW+23.64
32.00' RT

NW+63.24
24.00' RT

DRILLED DOWEL BARS

+45.00
73.26' LT

CP37

CB02

DRILLED TIE BARS

+54.89
73.25' LT

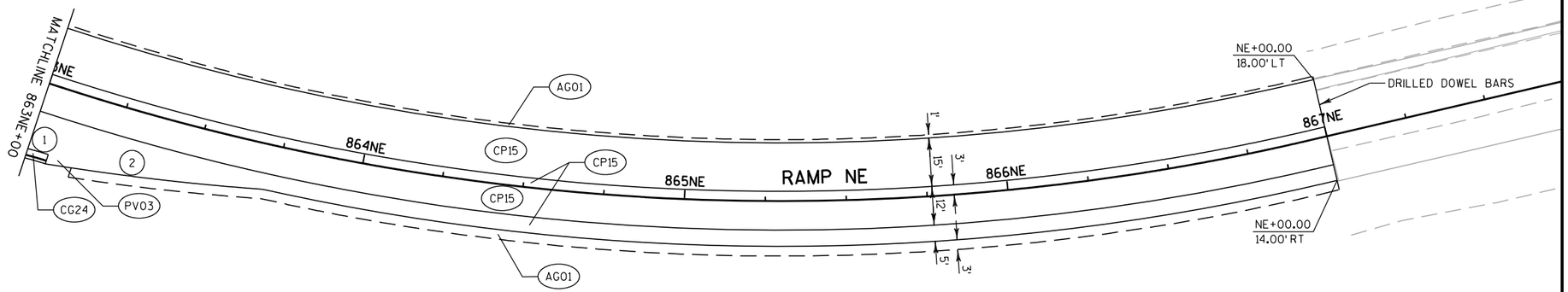
BG24

DRILLED DOWEL BARS

869 870 871 872 873 874 875

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

2



RADIUS TABLE							
POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1	863NE+06.38	141.00' RT	120'	862NE+00.59	137.07' RT	863NE+06.38	21.00' RT
2	861NE+22.64	706.42' LT	750'	863NE+06.38	24.00' RT	863NE+71.41	14.00' RT

RADIUS TABLE							
POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1	2860+67.74	95.04' LT	40'	2860+68.72	55.05' LT	2861+05.45	89.00' LT
2	2861+54.87	77.09' LT	20'	2861+38.51	87.52' LT	2861+55.25	57.10' LT
3	307+36.93	29.12' LT	2000'	2860+13.21	1.96' LT	2862+17.69	18.26' LT
4	2861+91.30	91.33' LT	75'	2861+66.84	20.68' LT	2861+97.08	16.57' LT
5*	2858+55.99	68.52' RT	38'	2858+59.26	30.66' RT	2858+95.20	64.91' RT
6	2859+49.58	65.99' RT	15'	2859+34.16	67.93' RT	2859+49.36	80.98' RT
7*	2859+68.74	54.26' RT	34'	2859+34.02	58.85' RT	2859+69.29	20.27' RT
8*	2859+78.12	54.21' RT	34'	2859+77.89	20.21' RT	2860+13.02	51.94' RT
9	2860+09.36	58.05' RT	5'	2860+09.49	63.05' RT	2860+14.50	57.67' RT
10	2860+58.37	71.36' RT	6'	2860+52.16	71.95' RT	2860+64.57	70.75' RT
11*	2860+87.05	57.80' RT	34'	2860+52.14	61.39' RT	2860+83.79	23.95' RT
12	308+08.34	286.78' RT	2000'	2861+42.09	18.00' RT	2862+68.74	28.00' RT

* RADIUS INFORMATION GIVEN TO FACE OF CURB

SPOKES CIRCLE

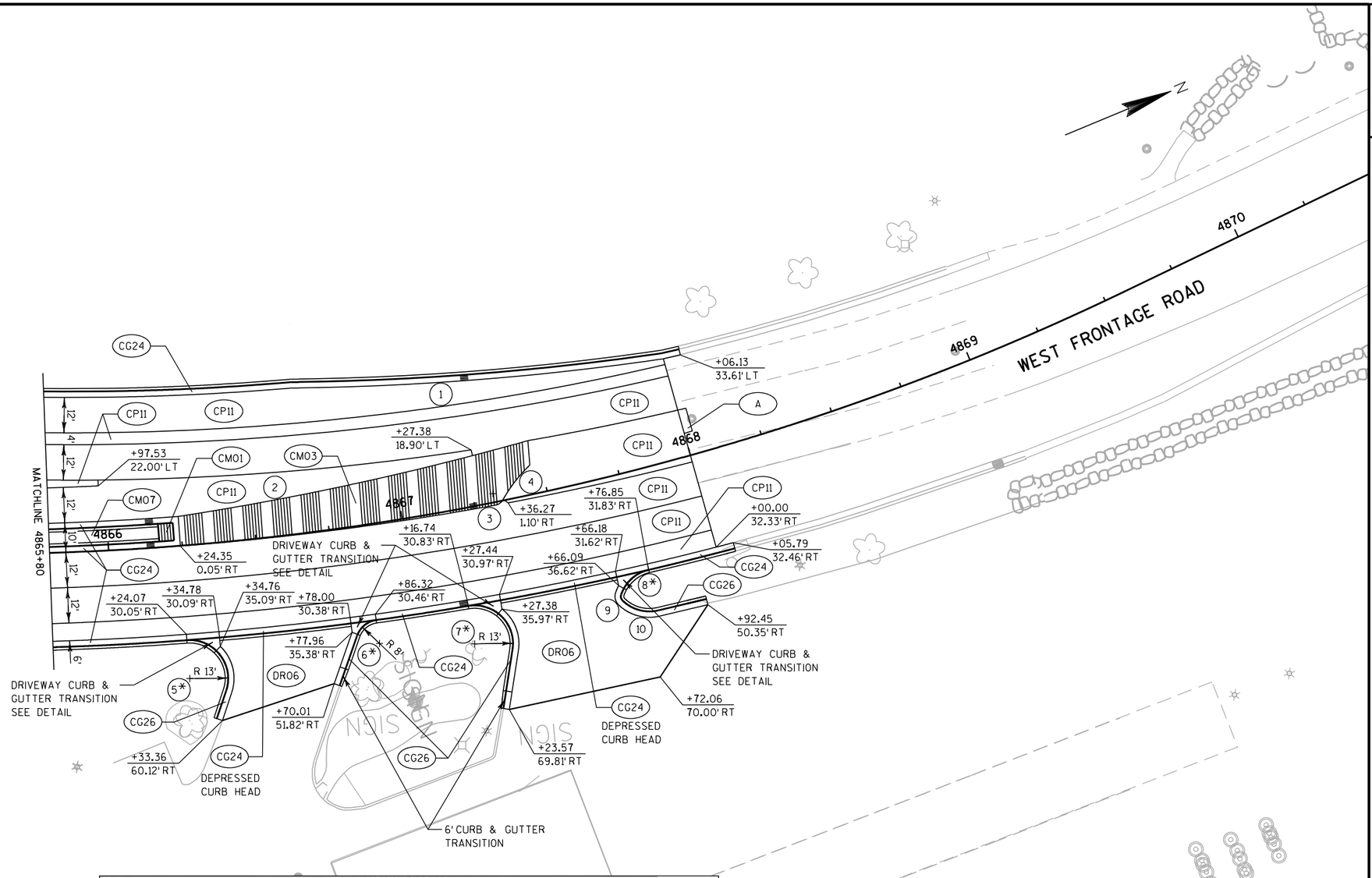
WEST FRONTAGE ROAD

MATCHLINE 2863+10

NOTE
SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR EB AND WB LANE LAYOUTS

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

2



RADIUS TABLE							
POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1	4870+90.94	953.66' LT	950'	4866+68.29	49.30' LT	4867+99.82	33.91' LT
2	4865+08.73	1004.03' LT	1000'	4866+24.38	9.95' LT	4867+47.28	18.08' LT
3	4867+31.85	2.97' LT	4'	4867+31.79	1.03' RT	4867+34.90	0.37' LT
4	4867+71.51	32.97' RT	50'	4867+34.90	0.37' LT	4867+46.12	9.92' LT
5*	4866+24.02	45.05' RT	13'	4866+24.06	32.05' RT	4866+35.38	50.15' RT
6*	4866+86.23	40.46' RT	8'	4866+79.42	36.78' RT	4866+86.30	32.46' RT
7*	4867+16.55	45.82' RT	13'	4867+16.71	32.82' RT	4867+28.19	50.16' RT
8*	4867+76.60	46.83' RT	13'	4867+66.21	39.72' RT	4867+76.82	33.83' RT
9	4867+67.82	40.81' RT	4'	4867+64.59	42.95' RT	4867+64.60	38.64' RT
10	4867+76.77	34.97' RT	15'	4867+64.59	42.95' RT	4867+76.57	49.97' RT

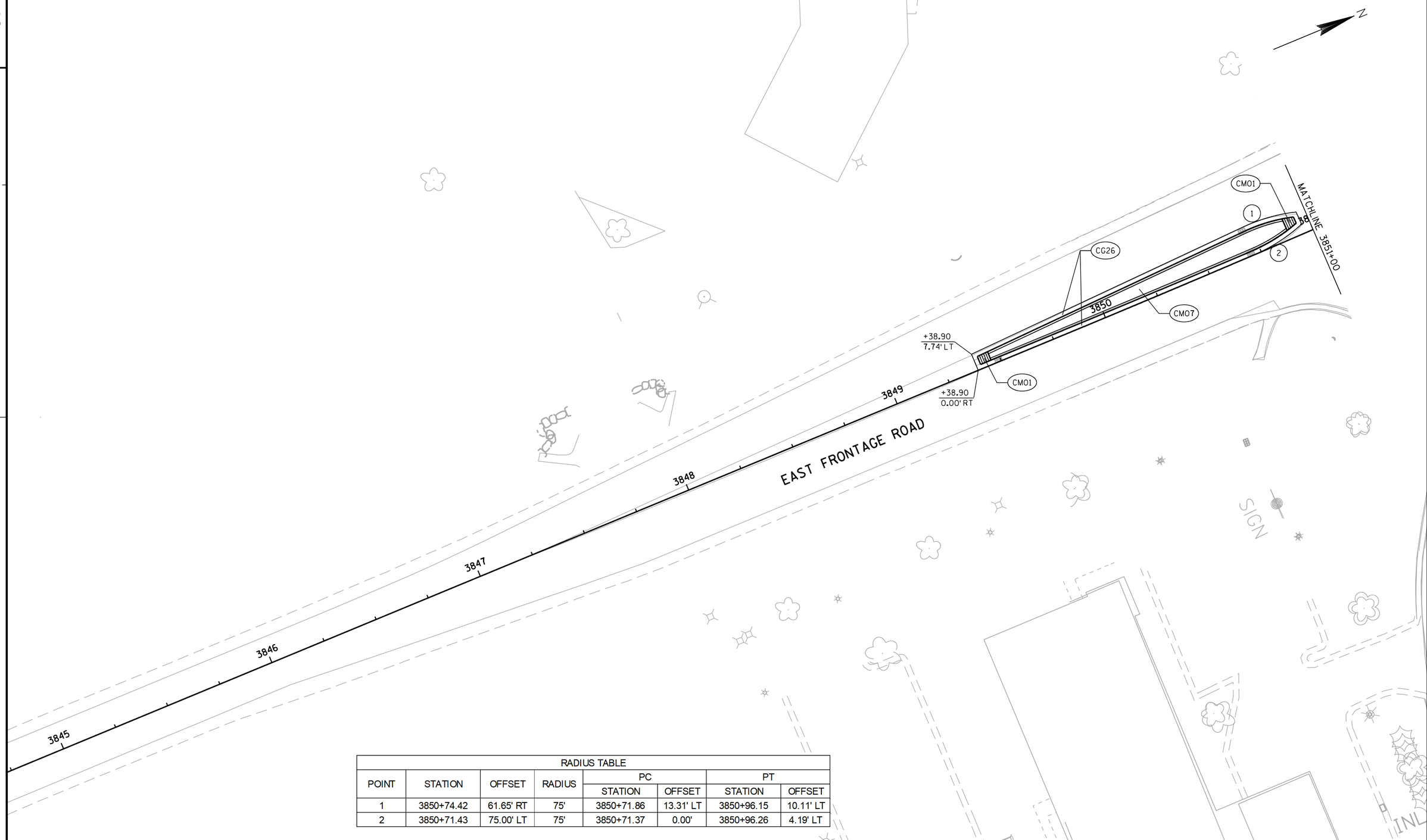
* RADIUS INFORMATION GIVEN TO FACE OF CURB

NOTE
SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR EB AND WB LANE LAYOUTS

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\021232_pd.dgn PLOT DATE : 12-DEC-2019 02:34 PLOT BY : mscdls PLOT NAME : 021232_pd PLOT SCALE : 40:1
WISDOT/CADDS SHEET 42

2



RADIUS TABLE							
POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1	3850+74.42	61.65' RT	75'	3850+71.86	13.31' LT	3850+96.15	10.11' LT
2	3850+71.43	75.00' LT	75'	3850+71.37	0.00'	3850+96.26	4.19' LT

RADIUS TABLE							
POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1*	3852+44.76	130.19' LT	74'	3852+56.69	57.14' LT	3852+87.85	69.65' LT
2*	3854+15.35	119.32' LT	59'	3853+81.83	70.67' LT	3854+12.06	60.41' LT
3*	3855+73.69	63.00' LT	3'	3855+73.69	60.00' LT	3855+75.64	65.04' LT
4*	3856+06.92	72.00' LT	12'	3855+96.44	72.93' LT	3856+06.92	60.00' LT
5	3858+14.62	498.07' RT	570'	3856+46.78	58.00' LT	3857+46.39	67.92' LT
6	3852+69.65	75.00' LT	75'	3852+69.65	0.00'	3852+93.22	3.76' LT
7	3854+20.83	75.00' LT	75'	3853+87.48	7.82' LT	3854+20.83	0.00'
8*	3852+88.18	48.00' RT	18'	3852+88.18	30.00' RT	3853+06.00	46.38' RT
9*	3853+59.92	49.00' RT	19'	3853+41.21	46.43' RT	3853+59.92	30.00' RT
10*	3854+86.09	49.00' RT	19'	3854+86.09	30.00' RT	3855+05.08	48.40' RT
11*	3855+69.07	49.00' RT	19'	3855+48.07	48.52' RT	3855+69.07	30.00' RT

* RADIUS INFORMATION GIVEN TO FACE OF CURB

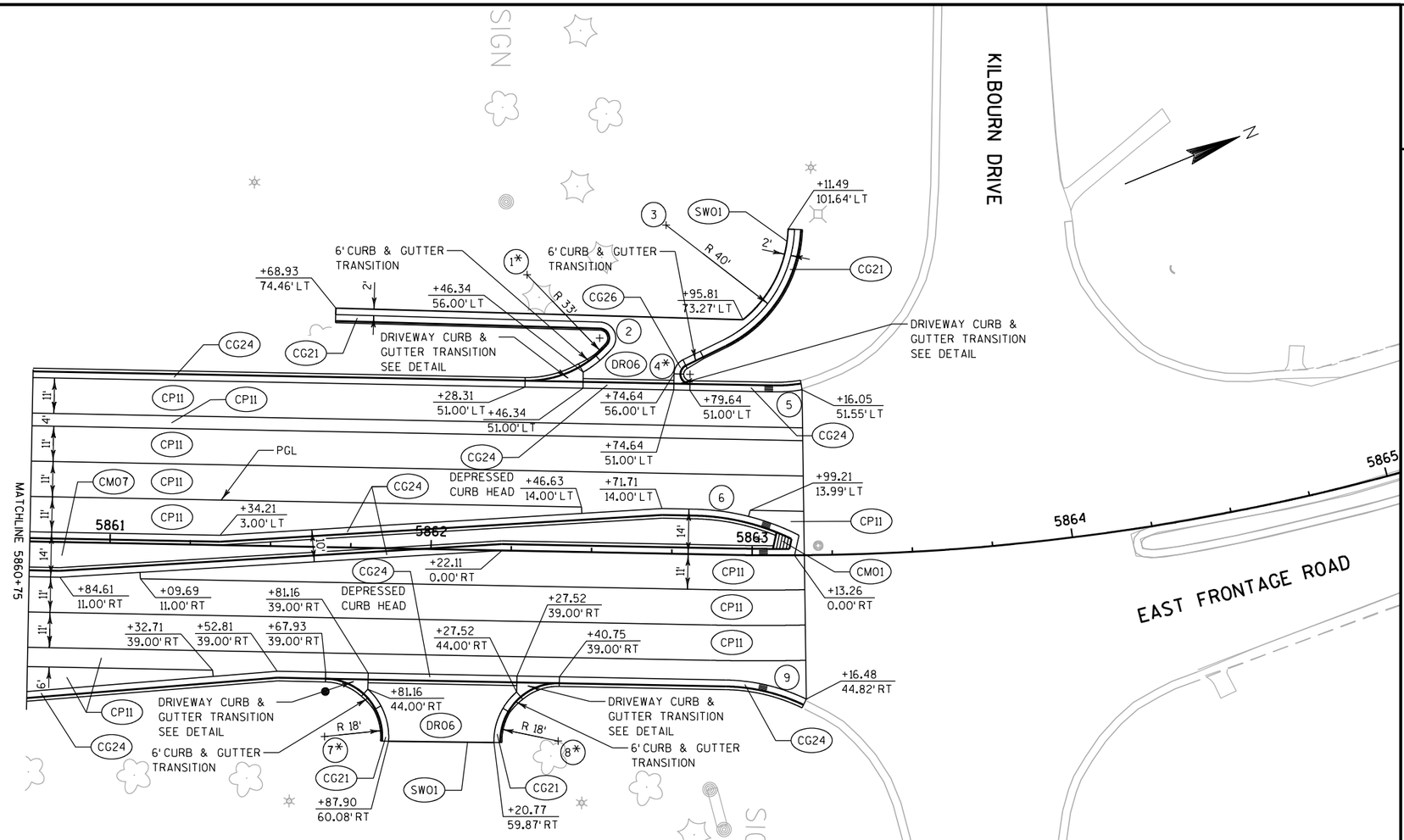
EAST FRONTAGE ROAD

MATCHLINE 3851+00

MATCHLINE 3857+25

NOTE
SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR EB AND WB LANE LAYOUTS

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E



RADIUS TABLE							
POINT	STATION	OFFSET	RADIUS	PC		PT	
				STATION	OFFSET	STATION	OFFSET
1*	5862+28.31	86.00' LT	33'	5862+28.31	53.00' LT	5862+53.56	64.75' LT
2	5862+51.27	66.68' LT	5'	5862+51.29	71.68' RT	5862+55.09	63.46' LT
3	5862+71.29	102.31' LT	40'	5862+89.59	66.74' LT	5863+13.81	101.57' LT
4*	5862+79.64	56.00' LT	3'	5862+78.27	58.67' LT	5862+79.64	53.00' LT
5	5863+07.21	100.92' LT	50'	5863+06.36	50.93' LT	5863+16.05	51.55' LT
6	5862+81.71	61.00' RT	75'	5862+81.71	14.00' LT	5863+14.65	6.21' LT
7*	5861+67.93	59.00' RT	18'	5861+67.93	41.00' RT	5861+85.90	60.09' RT
8*	5862+40.75	59.00' RT	18'	5862+22.77	59.86' RT	5862+40.75	41.00' RT
9	5862+92.66	99.00' RT	60'	5862+92.66	39.00' RT	5863+16.48	44.82' RT

* RADIUS INFORMATION GIVEN TO FACE OF CURB

2

N

+75.00
39.00' LT
MATCH EXISTING

+75.00
15.00' LT
MATCH EXISTING

BEGIN PROJECT
1033-02-76
STA 111+75.00

+75.00
15.00' RT
MATCH EXISTING

+75.00
39.00' RT
MATCH EXISTING

111

112

113

INTERNATIONAL DRIVE

B

24'

B

24'

MATCHLINE 114+00

LEGEND

B HMA PAVEMENT, 4 MT 58-28 H, 2-INCH

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

2

2

N

24'

B

117

118

119

12

INTERNATIONAL DRIVE

115

116

4

MATCHLINE 114+00

MATCHLINE 120+00

LEGEND

B HMA PAVEMENT, 4 MT 58-28 H, 2-INCH

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\021242_pd.dgn PLOT DATE : 12-DEC-2019 02:34 PLOT BY : mscd1s PLOT NAME : 021242_pd PLOT SCALE : 40:1

2

2

N

B

24'

MATCHLINE 120+00

120

121

122

123

124

125

MATCHLINE 126+00

INTERNATIONAL DRIVE

24'

B

LEGEND

B HMA PAVEMENT, 4 MT 58-28 H, 2-INCH

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\021243_pd.dgn PLOT DATE : 12-DEC-2019 02:34 PLOT BY : mscd1s PLOT NAME : 021243_pd PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

2

2

N

STH 20

+43.46
87.32' LT
MATCH EXISTING

+57.95
84.13' LT
MATCH EXISTING

END PROJECT
1033-02-76
STA 135+38.00

24'

B

MATCHLINE 132+00

132

133

134

135

136

137

INTERNATIONAL DRIVE

24'

36'

B

+97.87
128.18' RT
MATCH EXISTING

+07.11
130.21' RT
MATCH EXISTING

LEGEND

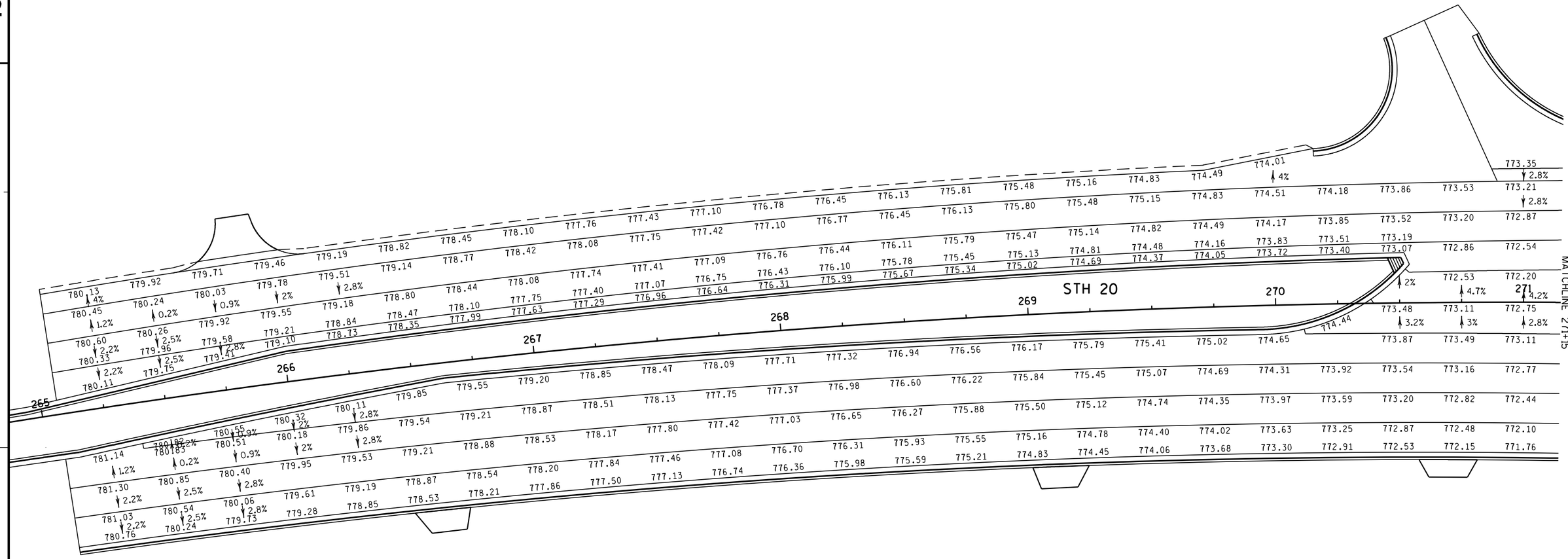
B HMA PAVEMENT, 4 MT 58-28 H, 2-INCH

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\021245_pd.dgn PLOT DATE : 12-DEC-2019 02:34 PLOT BY : mscd1s PLOT NAME : 021245_pd PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

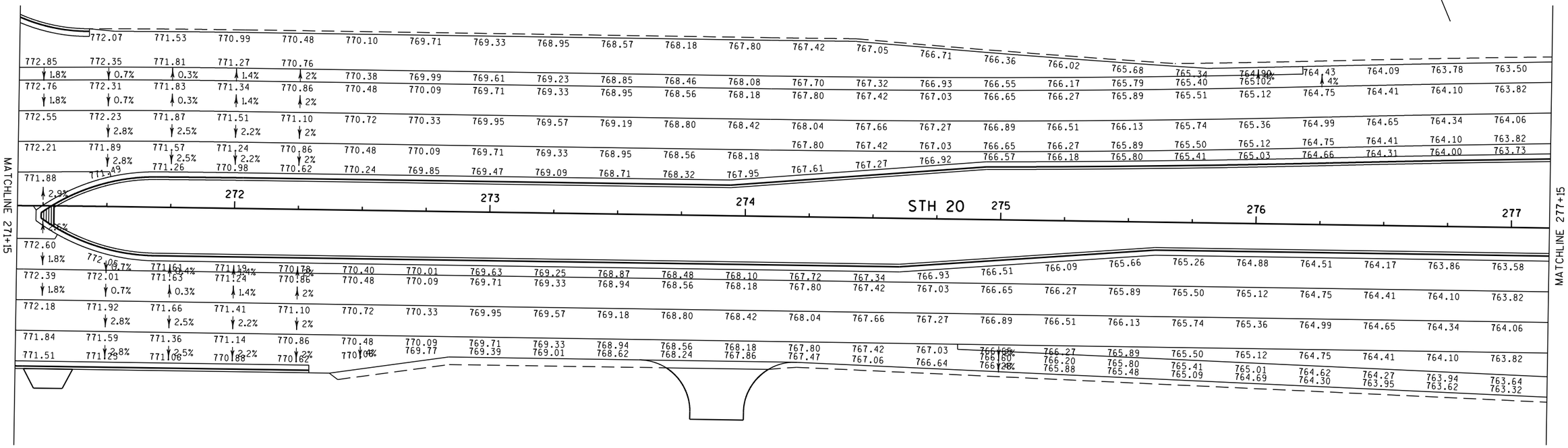
2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

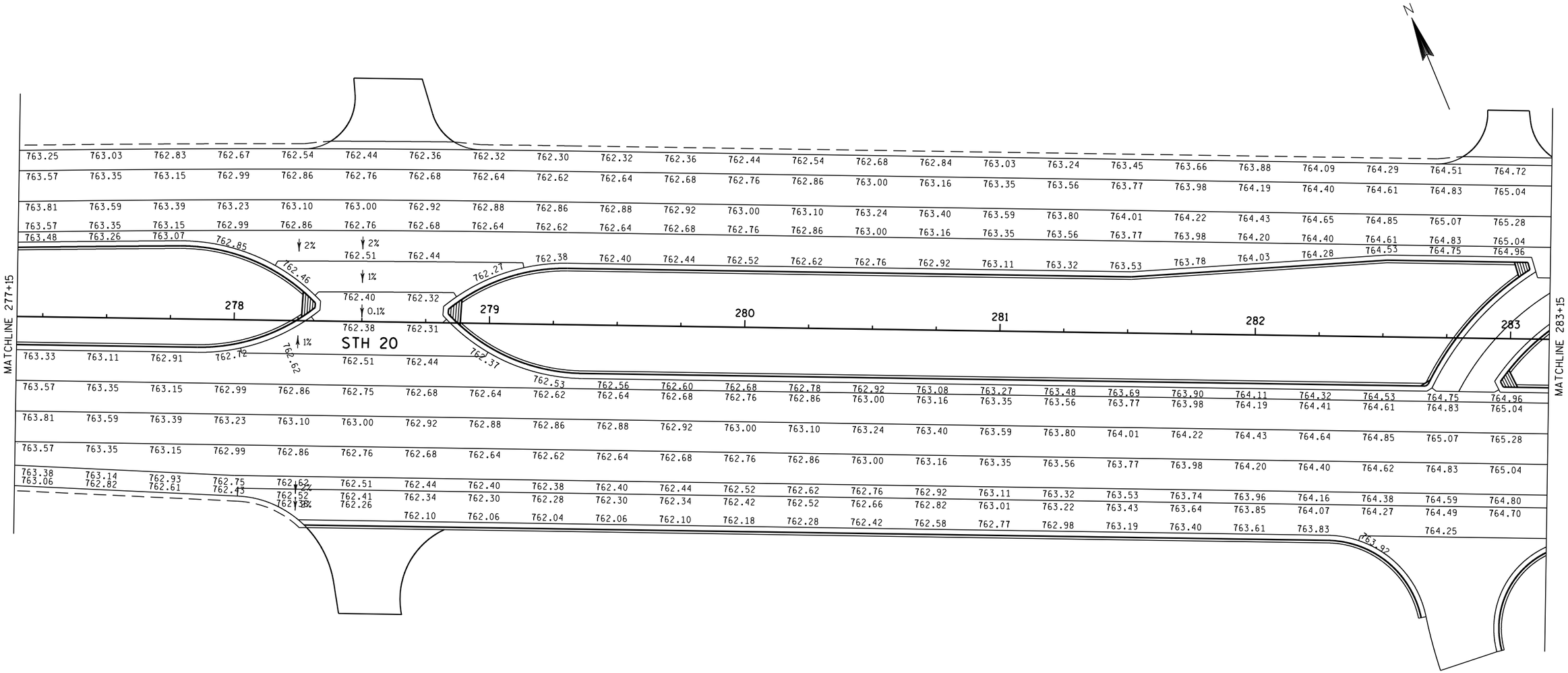
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2

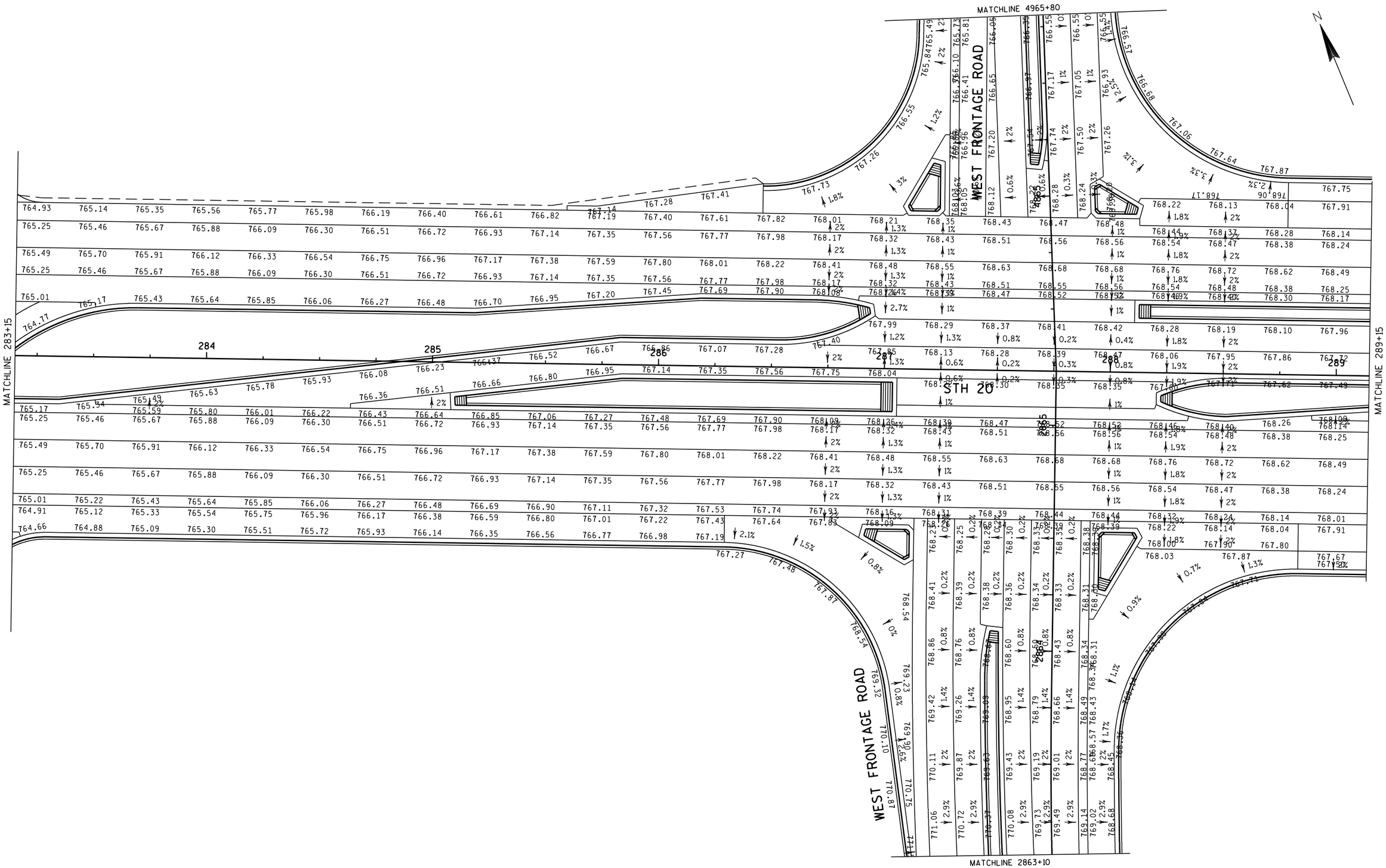


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

2

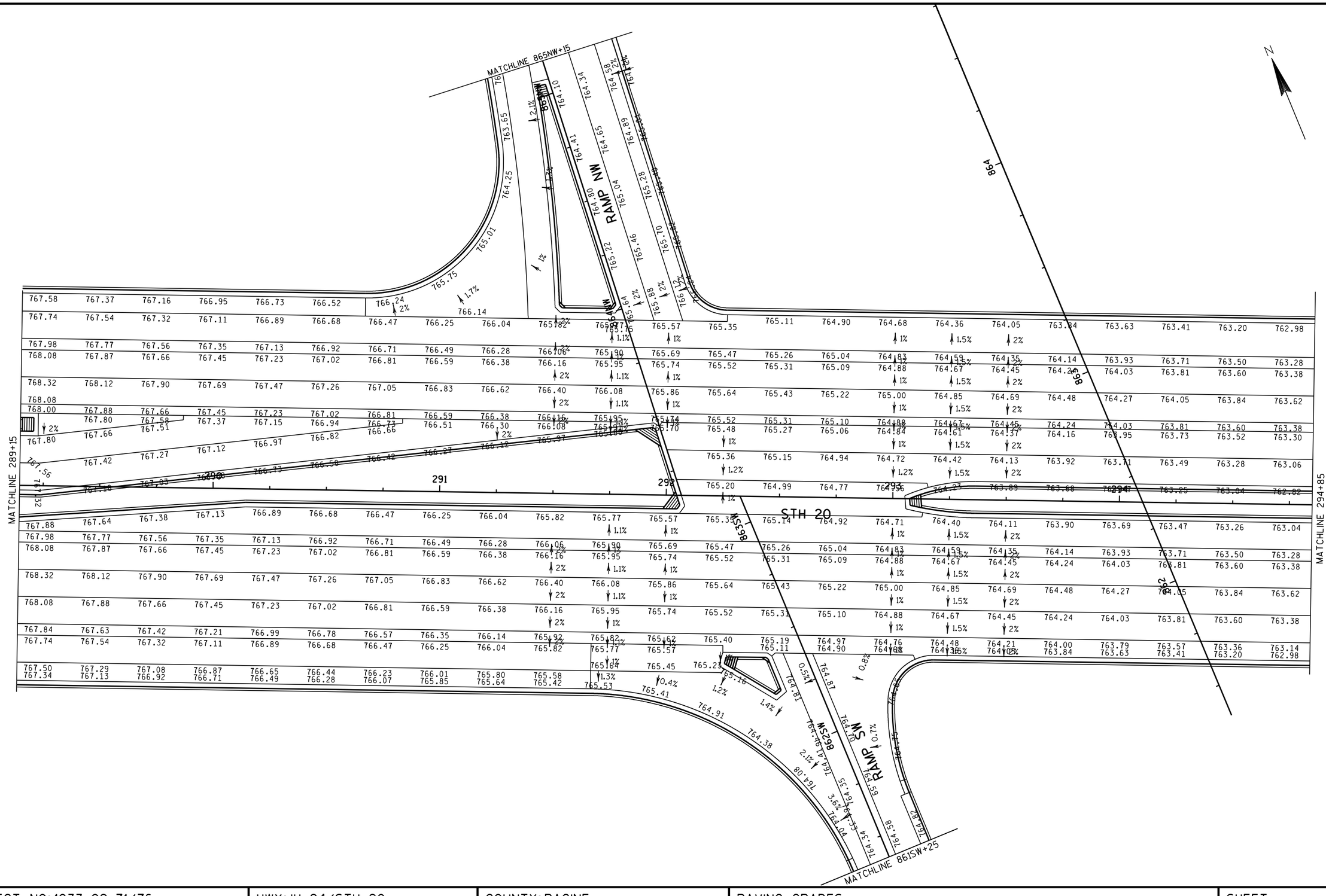


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

2

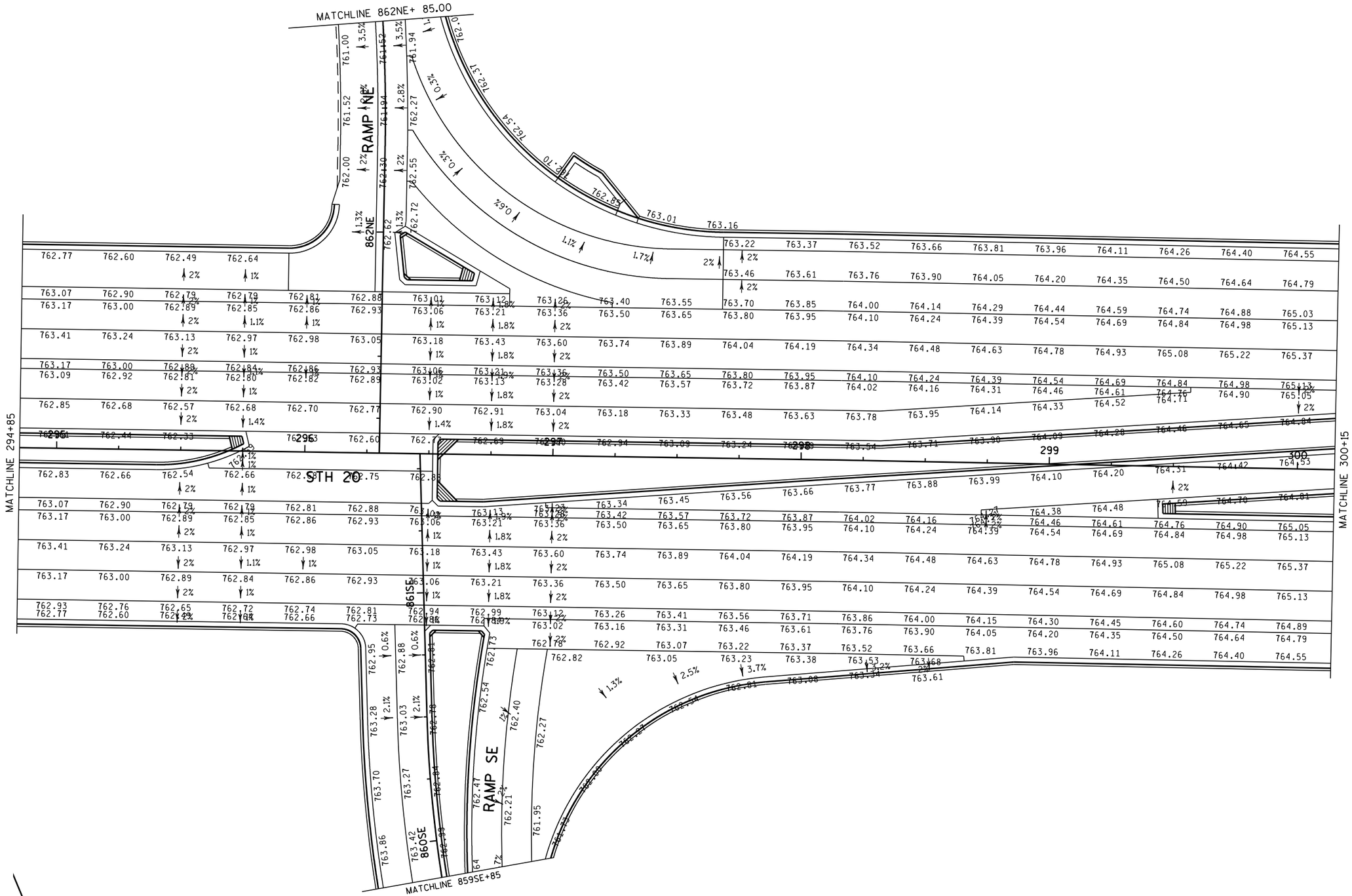


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

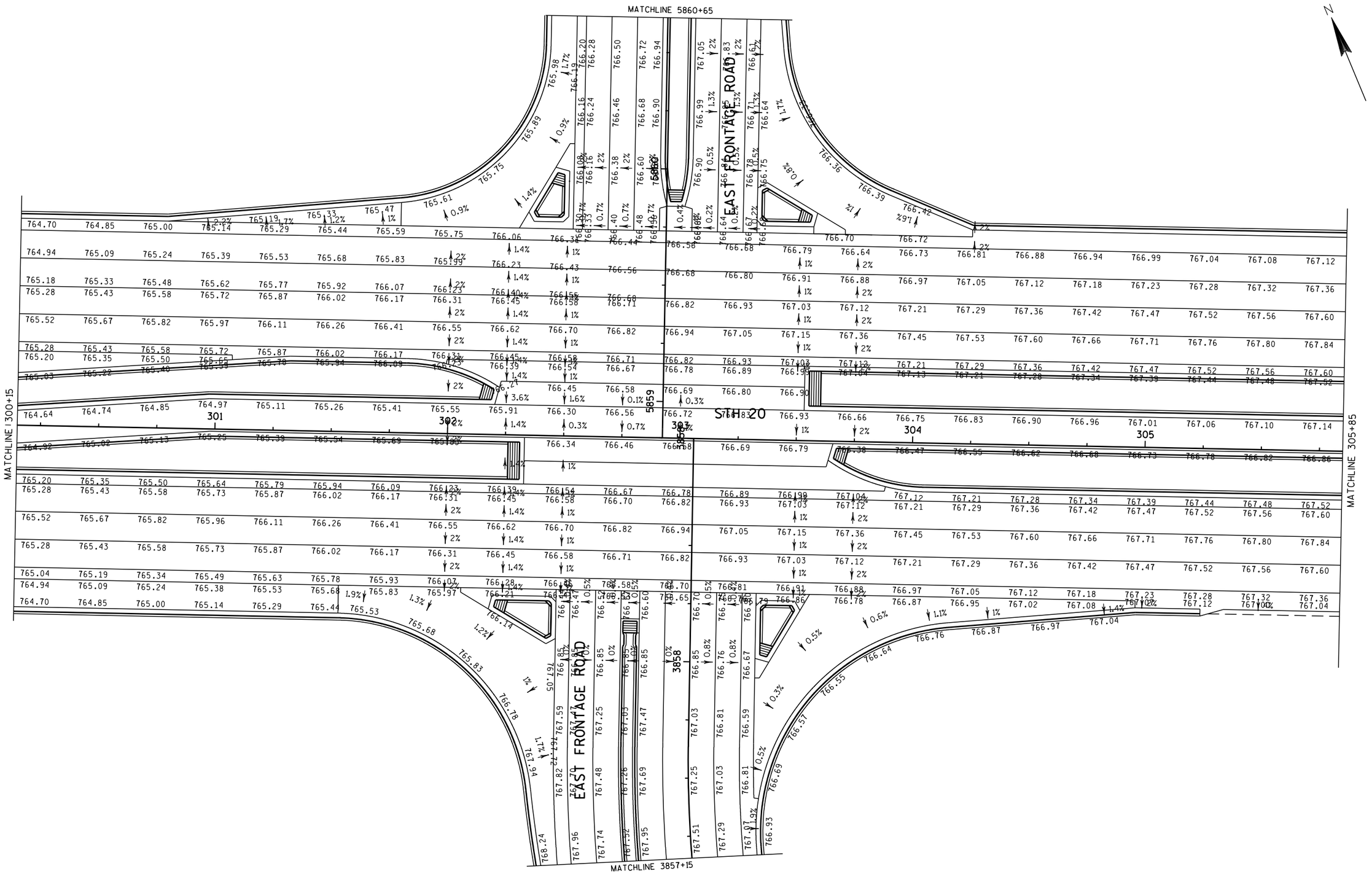
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WISDOT/CADDS SHEET 42

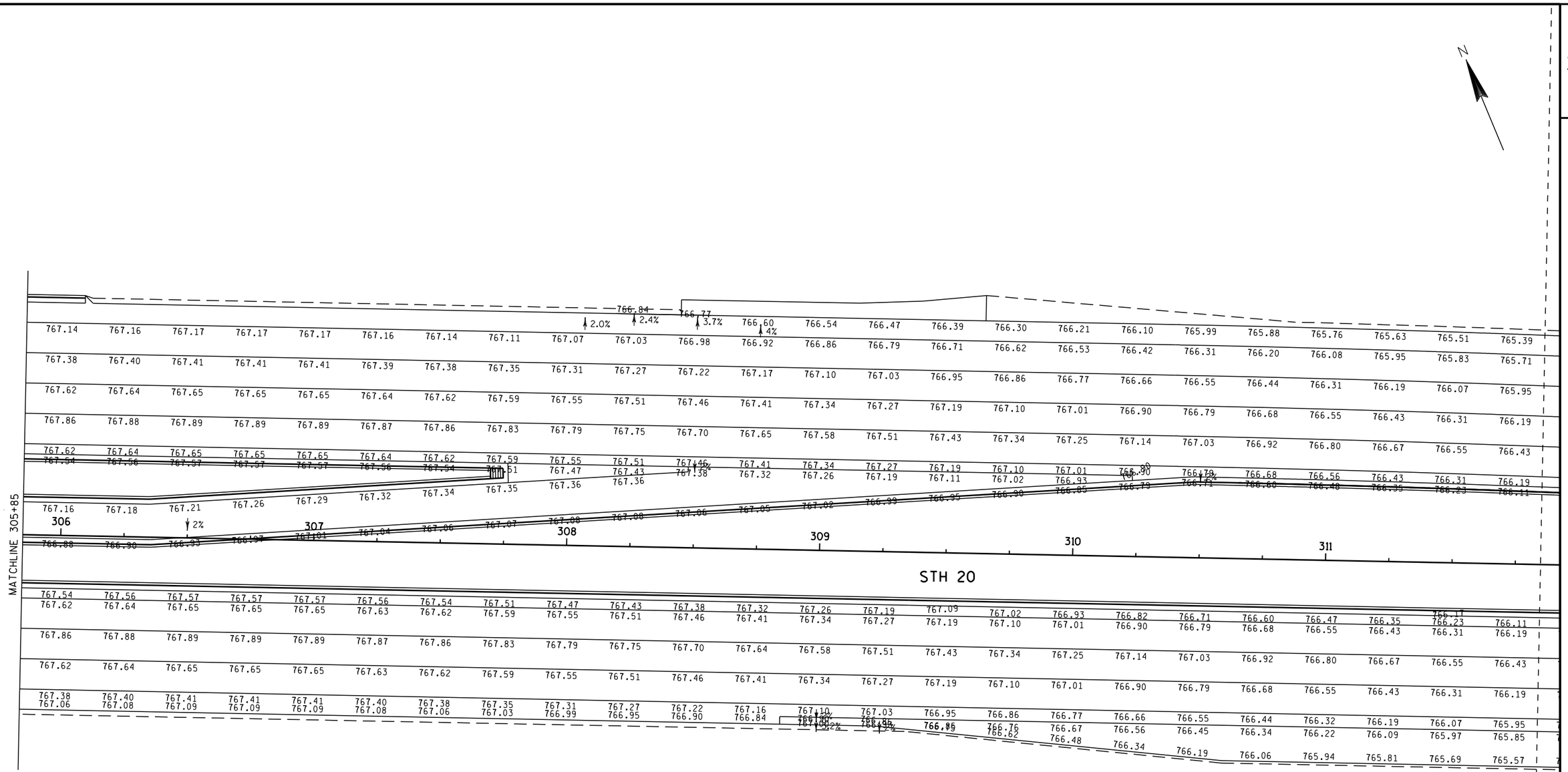
2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

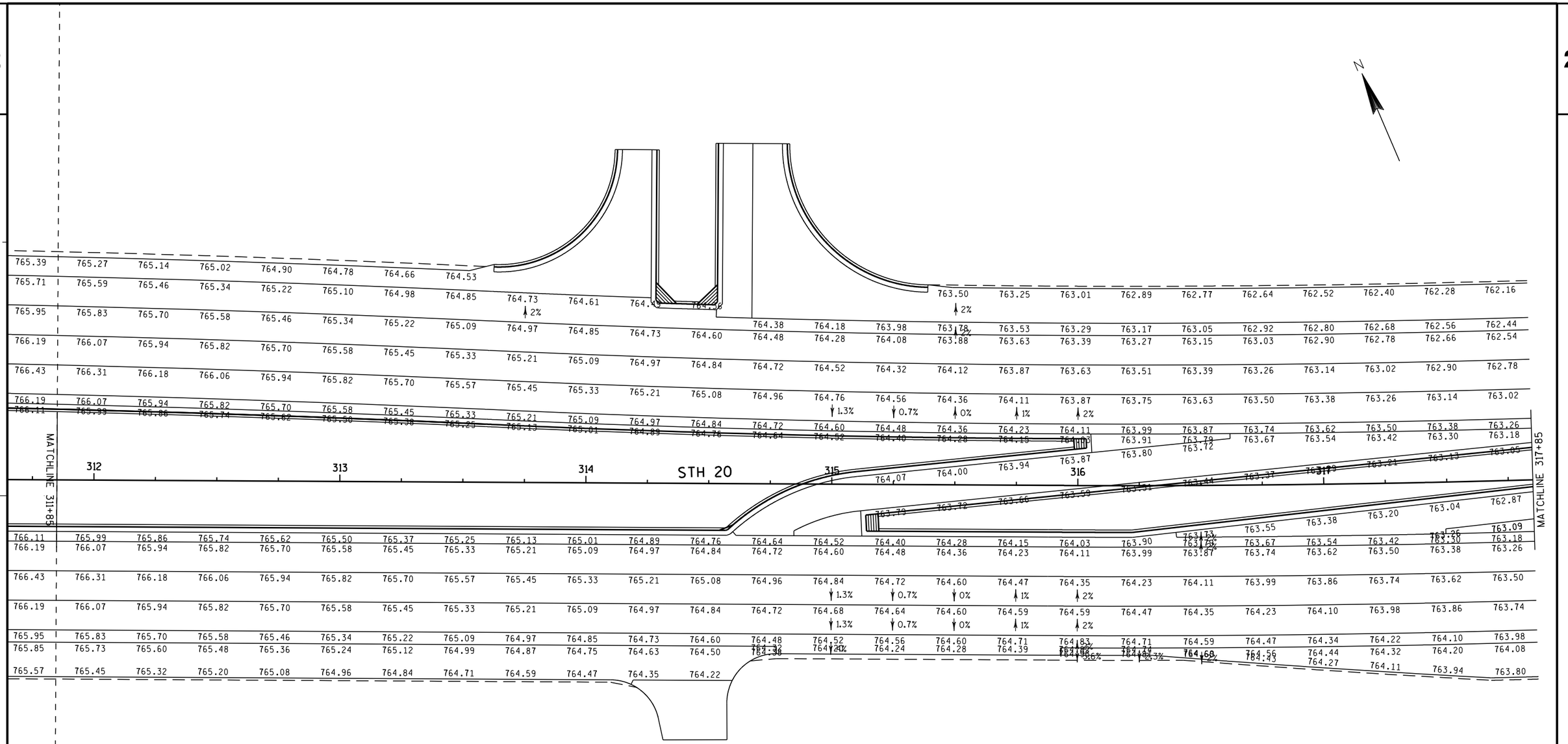

MATCHLINE 5860+65
EAST FRONTAGE ROAD
STH 20
EAST FRONTAGE ROAD
MATCHLINE 300+15
MATCHLINE 305+85
MATCHLINE 3857+15
301
302
303
304
305
5859
5860
3858
N

2



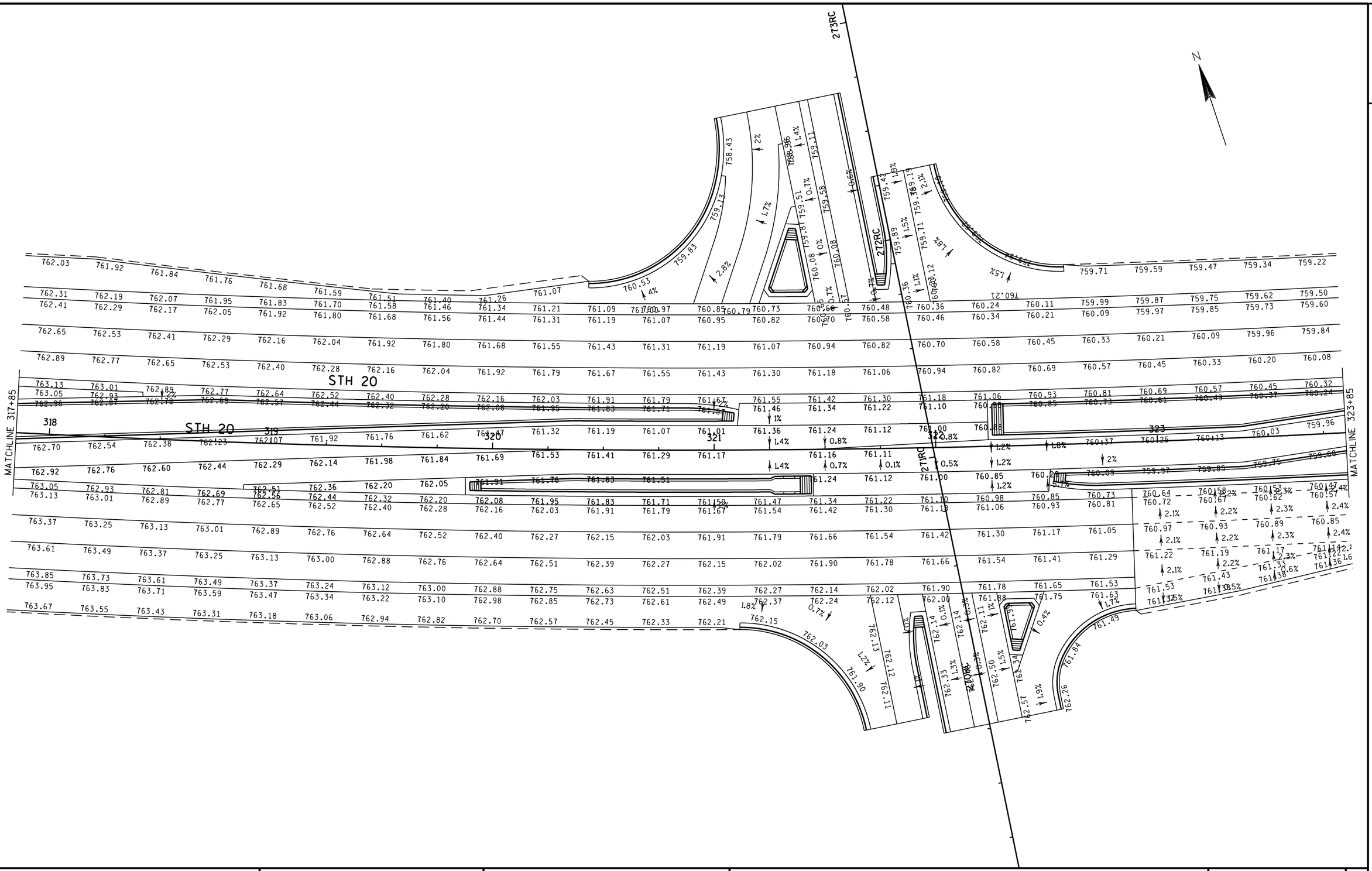
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

2



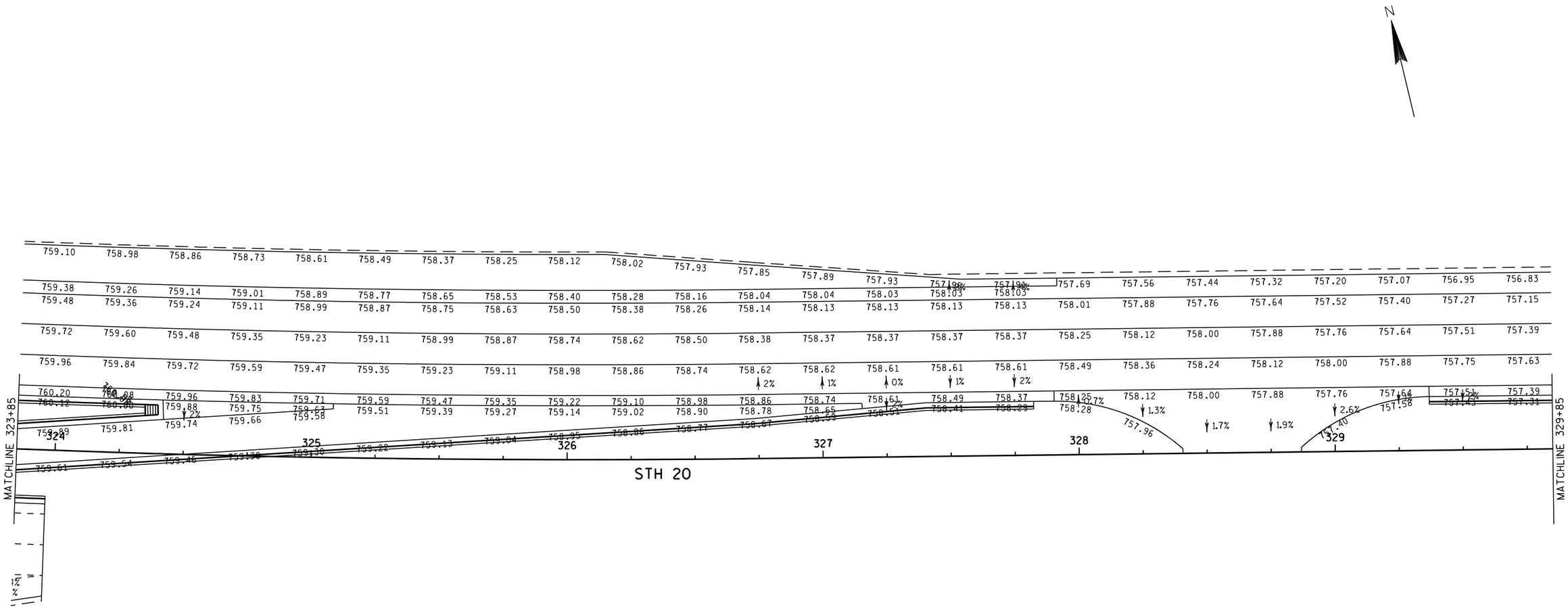
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

2



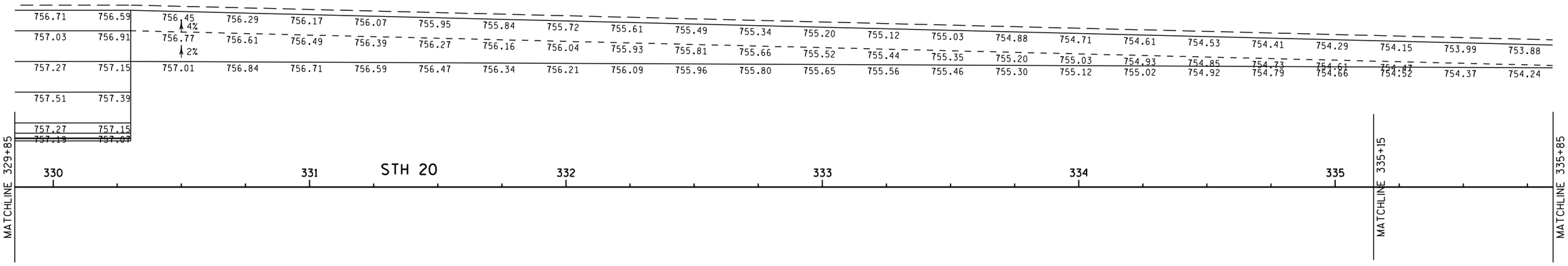
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

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WISDOT/CADDS SHEET 42

2

2

N

753.79 753.67
754.13 754.00

MATCHLINE 335+85

336 337 338 339 340 341

STH 20

PROJECT NO:1033-02-71/76	HWY:IH 94/STH 20	COUNTY:RACINE	PAVING GRADES	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\021263_pg.dgn PLOT DATE : 12-DEC-2019 02:37 PLOT BY : mscd1s PLOT NAME : 021263_pg PLOT SCALE : 40:1
WISDOT/CADDS SHEET 42

2

N

856SW 857SW 858SW

771.35 770.30 769.25
771.49 769.45 768.18 767.26 766.44 765.72 765.12 764.70 764.40 764.19
2.8% 3.9% 4% 4%
5.2% 4.1% 3.1% 2% 1% 0% 1% 2%
859SW 860SW 861SW
770.87 770.00 769.08 768.18 767.38 766.68 766.09 765.60 765.18 764.88 764.67
5.2% RAMP SW 3.1% 2% 1% 0% 1% 2%
770.24 769.50 768.72 767.95 767.26 766.68 766.21 765.84 765.42 765.12 764.91

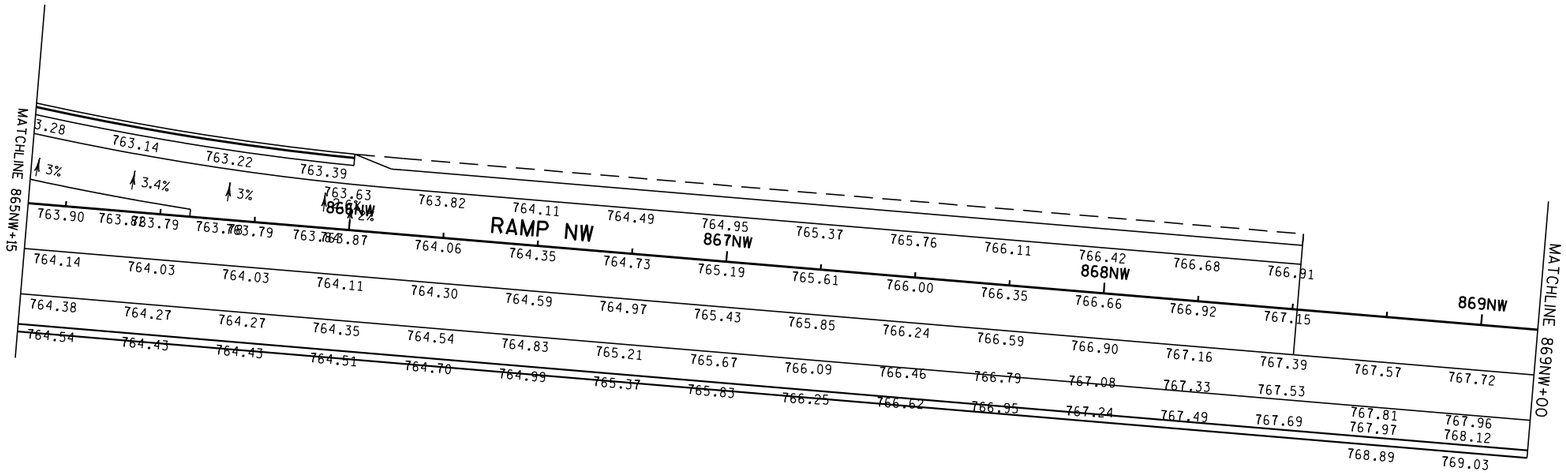
MATCHLINE 861SW+25

856 857 858 859 860 861

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

2

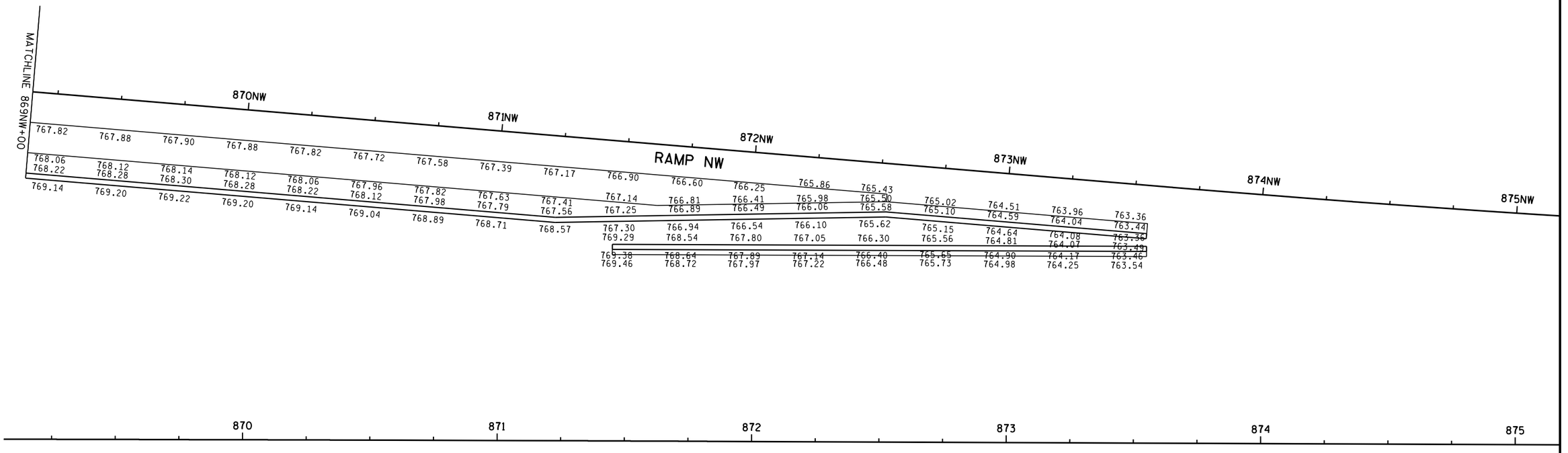
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

2

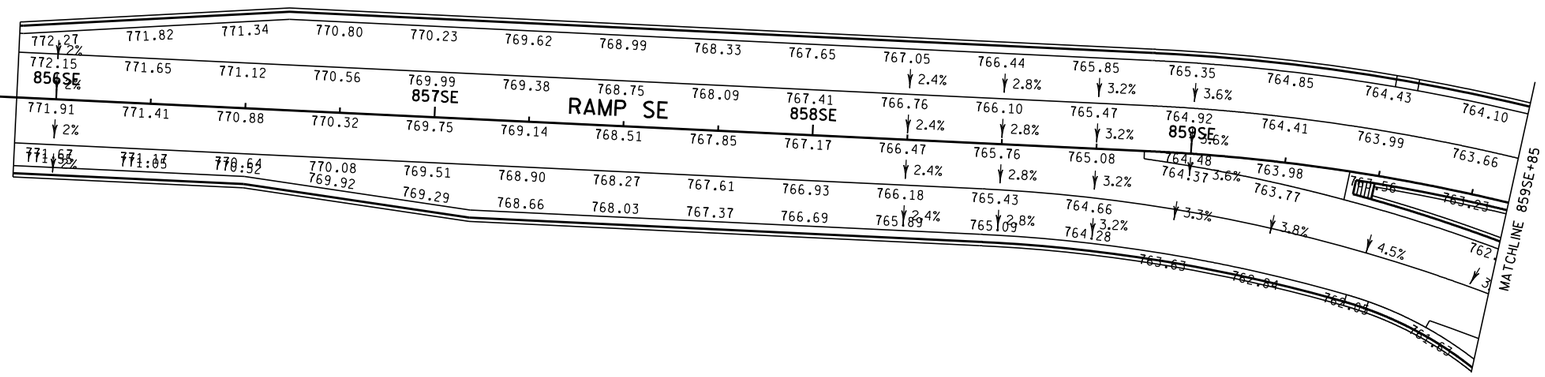
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

856 857 858 859 860

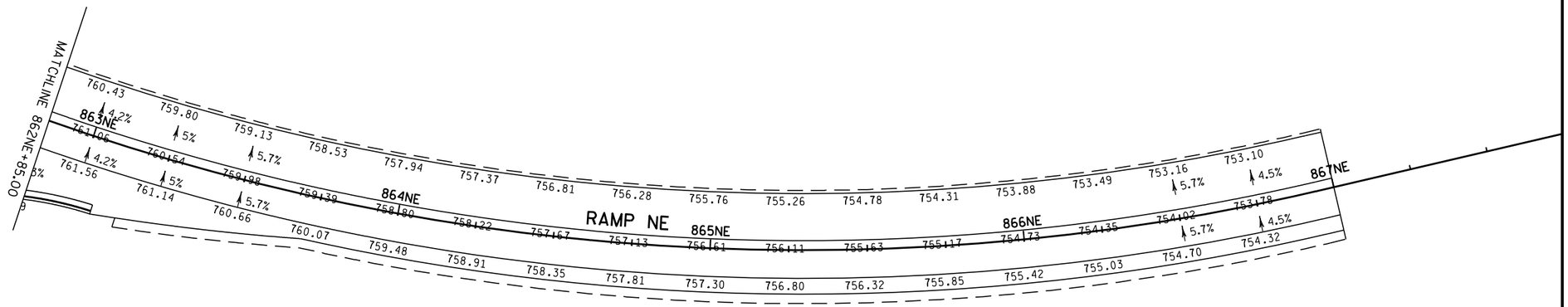
N



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET E

2

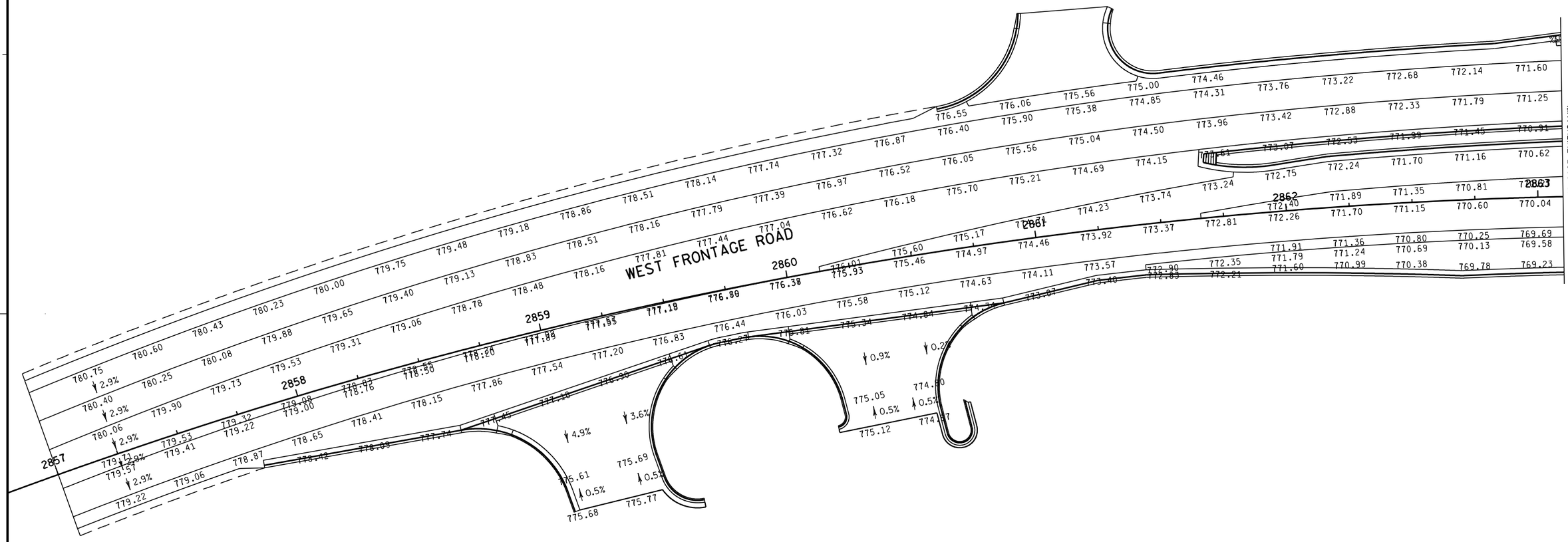
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

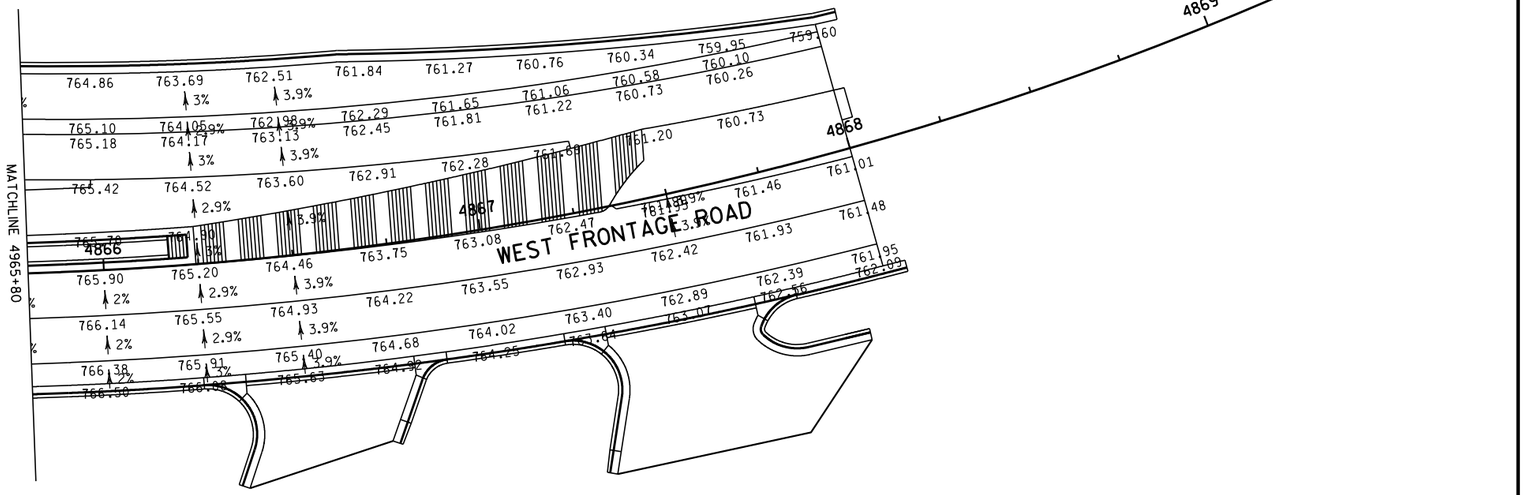
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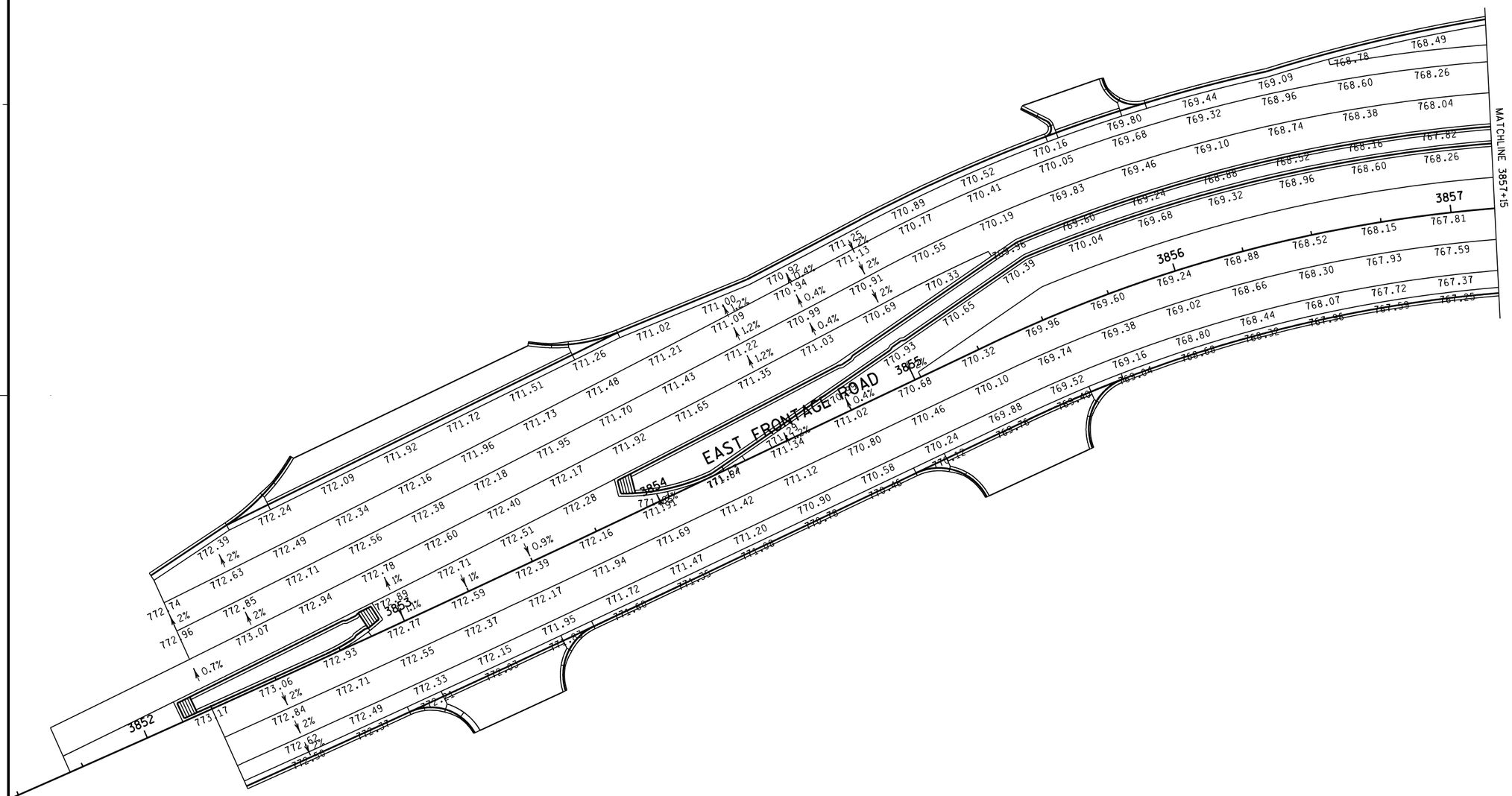


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

2


N
MATCHLINE 4965+80
4866
4867
4868
4869
WEST FRONTAGE ROAD
764.86
763.69
762.51
761.84
761.27
760.76
760.34
759.95
759.60
765.10
764.17
763.13
762.29
761.65
761.06
760.58
760.10
765.18
762.45
761.81
761.22
760.73
760.26
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763.60
762.91
762.28
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760.73
765.90
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761.93
761.46
761.01
766.14
765.55
764.93
764.22
763.55
762.93
762.42
761.93
761.48
766.38
765.91
765.40
764.68
764.02
763.40
762.89
762.39
761.95
3%
3.9%
2.9%
2%

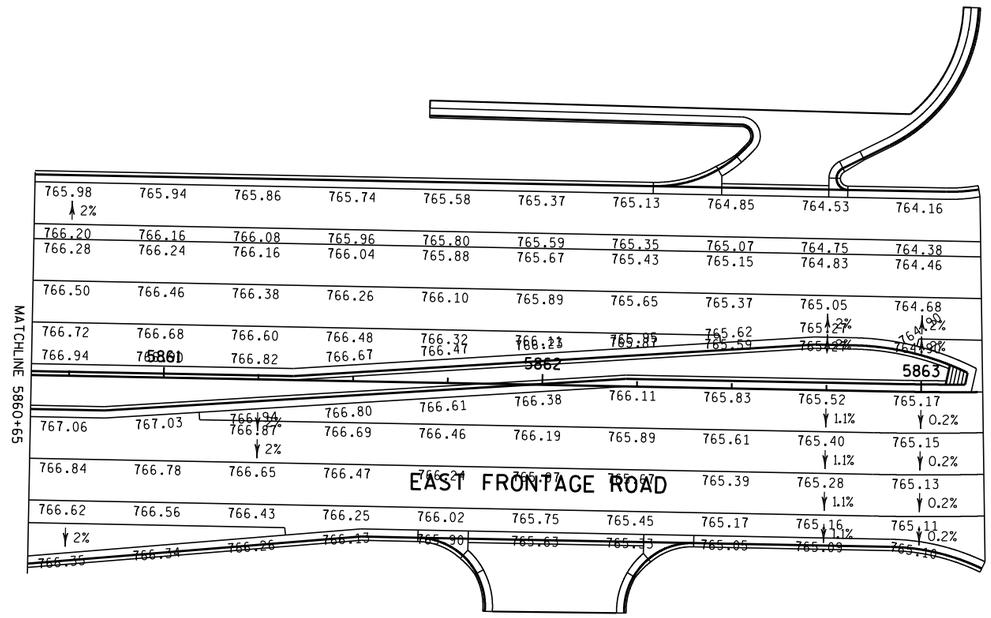
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

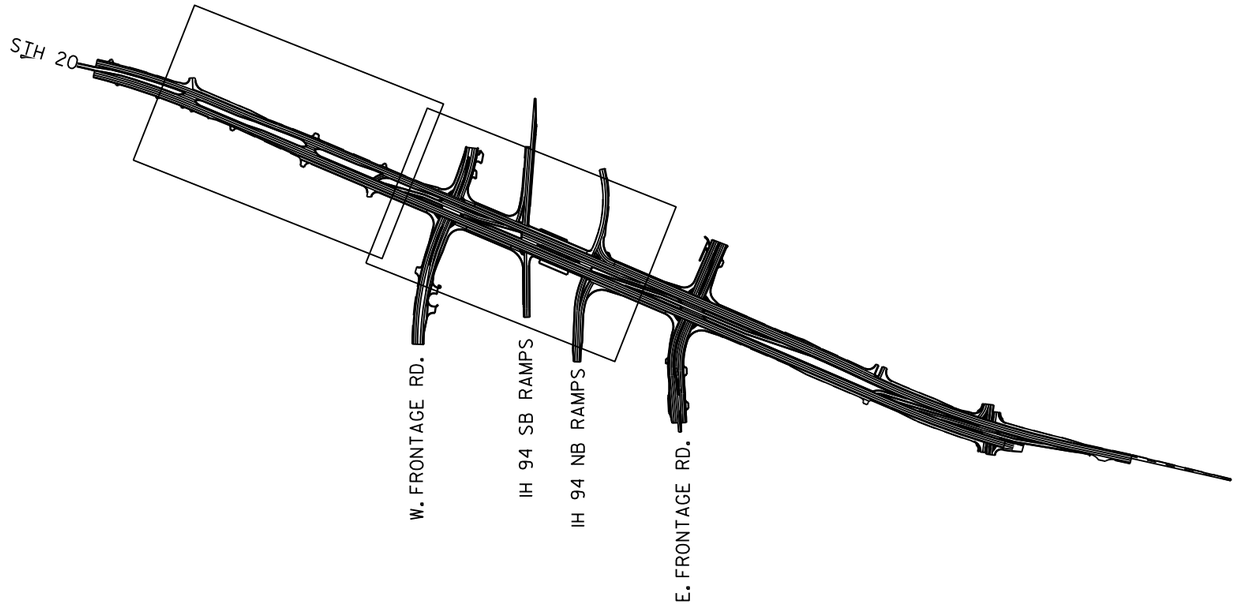
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVING GRADES	SHEET	E

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FTMS STANDARD ABBREVIATIONS

CCTV	CLOSED CIRCUIT TELEVISION SITE
RM	RAMP METER
DMS	DYNAMIC MESSAGE SIGN
SDS	SYSTEM DETECTOR STATION
ATR	AUTOMATIC TRAFFIC RECORDER
FY	ADVANCE FLASHER (ASSEMBLY)
CB	CONTROLLER CABINET
PB	PULL BOX
GPB	GROUNDED PULL BOX
MH	MANHOLE
V	COMMUNICATIONS VAULT
SB	SIGNAL BASE
MD	MICROWAVE DETECTOR

LEGEND	EXISTING	PROPOSED
FTMS CONVENTIONAL SYMBOLS		
FTMS (ITS) CONDUIT		
COMMUNICATIONS VAULT, TYPE 1		
PULL BOXES, STEEL, 24X42-INCHES		
PULL BOXES, STEEL, 24X36-INCHES		
CCTV CAMERA		

FTMS GENERAL NOTES

THESE PLANS AND THE ASSOCIATED SPECIAL PROVISIONS REFLECT CONDITIONS KNOWN DURING THE DEVELOPMENT OF THE PLANS AND TECHNICAL SPECIAL PROVISIONS. ALL SCALES, DIMENSIONS AND LOCATIONS SHOWN IN THESE PLANS ARE APPROXIMATE. ACTUAL PHYSICAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR THE APPLICATION OF WORK SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE APPLICATION OF ALL WORK SHOWN IN THE PLANS TO THE ACTUAL PHYSICAL FIELD CONDITIONS TO PROVIDE A COMPLETE AND ACCEPTED PROJECT. IN THE EVENT THAT ACTUAL PHYSICAL FIELD CONDITIONS AFFECT OR PREVENT THE APPLICATION OR PROGRESSION OF ANY WORK SHOWN IN THE PLANS OR TECHNICAL SPECIAL PROVISIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, AND PRIOR TO ANY FURTHER WORK ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY LOCATION CHANGES OTHER THAN MINOR ADJUSTMENTS.

BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.

BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUITS, PULLBOXES, POLES, CABINET FOUNDATIONS, OR OTHER EQUIPMENT IS TO BE INSTALLED. THE CONTRACTOR IS FULLY RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.

NO TREES (AND/OR SHRUBS) ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

AREAS WITHIN THE RIGHT-OF-WAY DISTURBED SPECIFICALLY FOR FTMS CONSTRUCTION ARE TO BE RESTORED TO THE ORIGINAL CONDITION WITH TOPSOIL, FERTILIZER, SEED, AND MULCH. RESTORATION FOR AREAS DISTURBED FOR OTHER CONSTRUCTION OPERATIONS BUT ALSO CONTAINING FTMS CONSTRUCTION WILL BE DONE ACCORDING TO REQUIREMENTS AND PAYMENT PROVISIONS FOR THE OTHER CONSTRUCTION OPERATIONS. NO PAYMENT WILL BE MADE FOR RESTORING AREAS DISTURBED FOR FTMS CONSTRUCTION OPERATIONS.

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

DUE TO RAMP, LANE, SHOULDER CLOSURE RESTRICTIONS, AND WORK UNDER OTHER CONTRACTS, SOME WORK MAY BE REQUIRED TO BE PERFORMED AT NIGHT.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR COORDINATING RAMP, LANE, SHOULDER, AND ROADWAY CLOSURES WITH OTHER CONTRACTS IN THE AREA.

THE CONTRACTOR IS TO CONTACT THE WISDOT STATEWIDE TRAFFIC OPERATIONS CENTER AT (414) 227-2166 FIVE (5) WORKING DAYS PRIOR TO ENTERING ANY EXISTING WISDOT FTMS OR ITS CABINET.

HAND DIG TRENCHES CROSSING EXISTING CONDUIT CONTAINING FIBER OPTIC CABLE.

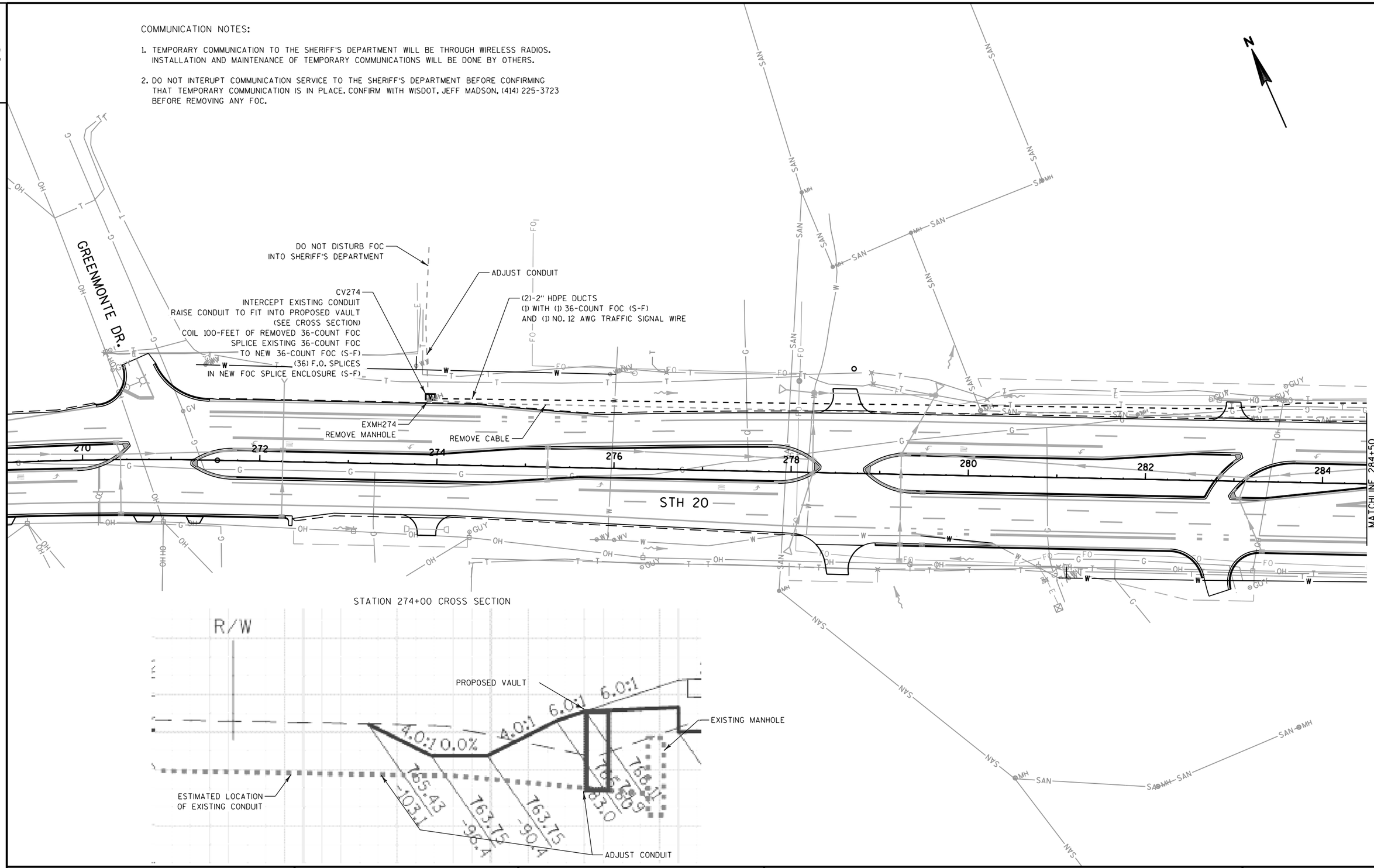
VISUALLY VERIFY DEPTHS OF EXISTING CONDUITS CONTAINING FIBER OPTIC CABLE PRIOR TO CROSSING BY DIRECTIONAL BORE OR SPECIAL METHOD.

INSTALL CONDUIT BELOW FUTURE MULTIUSE PATH SO AS NOT TO BE DISTURBED WHEN THE PATH IS CONSTRUCTED. INSTALL CONDUIT AND VAULTS AROUND PROPOSED IRRIGATION SYSTEM.

COMMUNICATION NOTES:

1. TEMPORARY COMMUNICATION TO THE SHERIFF'S DEPARTMENT WILL BE THROUGH WIRELESS RADIOS. INSTALLATION AND MAINTENANCE OF TEMPORARY COMMUNICATIONS WILL BE DONE BY OTHERS.

2. DO NOT INTERUPT COMMUNICATION SERVICE TO THE SHERIFF'S DEPARTMENT BEFORE CONFIRMING THAT TEMPORARY COMMUNICATION IS IN PLACE. CONFIRM WITH WISDOT, JEFF MADSON, (414) 225-3723 BEFORE REMOVING ANY FOC.



STATION 274+00 CROSS SECTION

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	FTMS PLANS	SHEET 138	E

2

2

EXCV291
EXISTING WISDOT VAULT
ON AT&T CABLE SYSTEM
CONTACT WISDOT BEFORE ACCESSING
(36) F.O. SPLICES
IN NEW FOC SPLICE ENCLOSURE (S-F)

(2)-2" HDPE DUCTS
(1) WITH (1) 36-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

(2)-2" HDPE DUCTS
(1) WITH (1) 36-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

PB286
EXPB286
REMOVE PULL BOX

REMOVE CABLE

EXCV289
REMOVE VAULT

PB291
EXPB291

REMOVE CABLE

MATCHLINE 284+50

SB OFF-RAMP

NB ON-RAMP

EXCCTV-51-0065
EXPB295

(1) 2-INCH CONDUIT
REINSTALL (3) NO.6 AWG LIGHTING WIRES

MB295
INSTALL EXISTING (3) NO.6 AWG LIGHTING WIRES
INTO PROPOSED TRAFFIC SIGNAL METER BREAKER.
MAINTAIN FTMS POWER SOURCE DURING CONSTRUCTION
USING THE TEMPORARY TRAFFIC SIGNAL POWER SOURCE,
OR ALTERNATE METHOD APPROVED BY THE ENGINEER.
(TEMPORARY CCTV POWER, ITEM SPV.0105.2000)
SCHEDULE 5-HOUR OUTAGE WITH THE WISDOT TMC
WHEN TRANSFERING POWER SOURCES.

CB01
S-51-0324

EXMB295

EXRG04

EXRG05

REMOVE RAMP GATE

EXRG02

EXRG03

EXRG01

REMOVE RAMP GATE

STH 20

W. FRONTAGE RD.

IH 41 / 94 SB

IH 41 / 94 NB

SB ON-RAMP

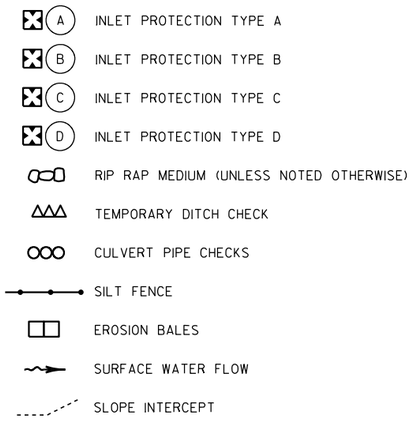
NB OFF-RAMP

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	FTMS PLANS	SHEET	E

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WISDOT/CADDS SHEET 42

2

LEGEND



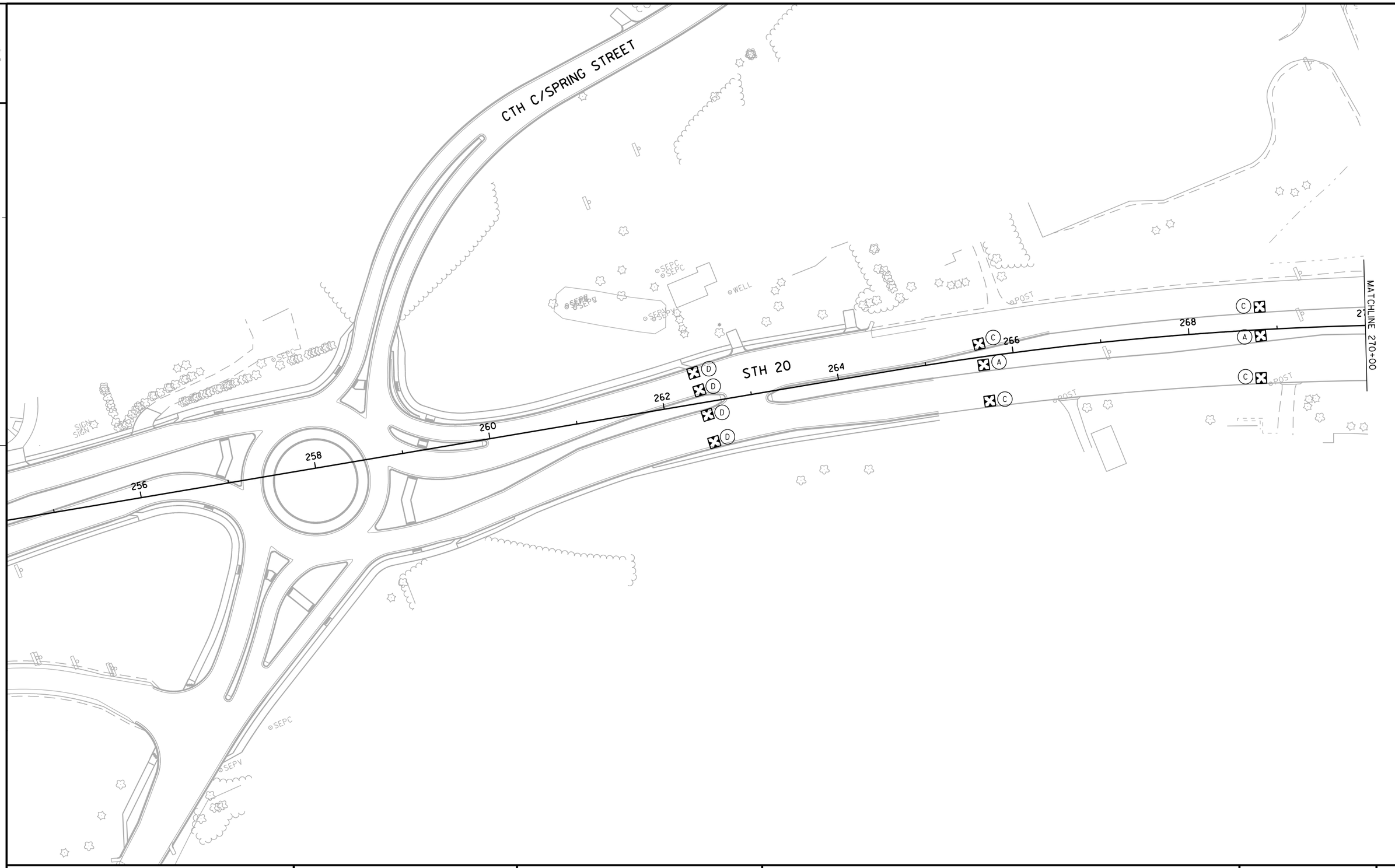
NOTES

PLACE INLET PROTECTION TYPE A AT ALL NEW INLET LOCATIONS DURING GRADING STAGES.

PLACE INLET PROTECTION TYPE B, C, OR D UNDER INLET COVERS LOCATED IN CURB AND GUTTER UNTIL COMPLETION OF THE PROJECT.

DO NOT STORE MATERIALS OR OPERATE EQUIPMENT WITHIN THE WETLAND LIMITS OUTSIDE THE SLOPE INTERCEPTS.

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL - EXISTING CONDITION	SHEET	E

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WISDOT/CADDS SHEET 42

2

2

GREENMONTE DRIVE

SEWAGE TREATMENT PLANT

STH 20

MATCHLINE 270+00

MATCHLINE 285+00

270 272 274 276 278 280 282 284

SPOKES CIRCLE

GOLF COURSE

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL - EXISTING CONDITION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\022002_ec.dgn PLOT DATE : 12-DEC-2019 02:40 PLOT BY : mscd1s PLOT NAME : 022002_ec PLOT SCALE : 100:1

2

MATCHLINE 4868+00

MATCHLINE 868NW+00

MATCHLINE 866NE+00

WEST FRONTAGE ROAD

RAMP NW

RAMP NE

STH 20

CANOPY

VACUUM

FILLER CAPS

FLAG

SIGN

MH

INL

RIPRAP

ANT

FLAGS

4866

866NW

864NE

862NE

MATCHLINE 285+00

MATCHLINE 300+00

286

288

290

292

294

296

298

2864

2862

298

IH 94 SB

IH 94 NB

098

RAMP SW

RAMP SE

865SW

865NE

863SE

SPOKES CIRCLE

MATCHLINE 2861+00

MATCHLINE 859SW+00

MATCHLINE 857SE+00

N

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL - EXISTING CONDITION	SHEET	E

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2

MATCHLINE 5863+00

EAST FRONTAGE ROAD

5862

5860

3858

3856

3854

SIGN

FLAG

FILLER CAP

CANOPY

INL

MH

RIPRAP

FILLER CAPS

PHONE

VACUUM

FOUND

N

302

304

306

308

310

312

314

MATCHLINE 300+00

MATCHLINE 315+00

STH 20

GALAXY DRIVE

MATCHLINE 3854+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL - EXISTING CONDITION	SHEET	E

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WISDOT/CADDS SHEET 42

2

RED CLOUD DRIVE

212RC

217ORC

MATCHLINE 315+00

MATCHLINE 330+00

STH 20

316

318

320

322

324

326

328

SIGN

SIGN

SIGN

U/C

W

W

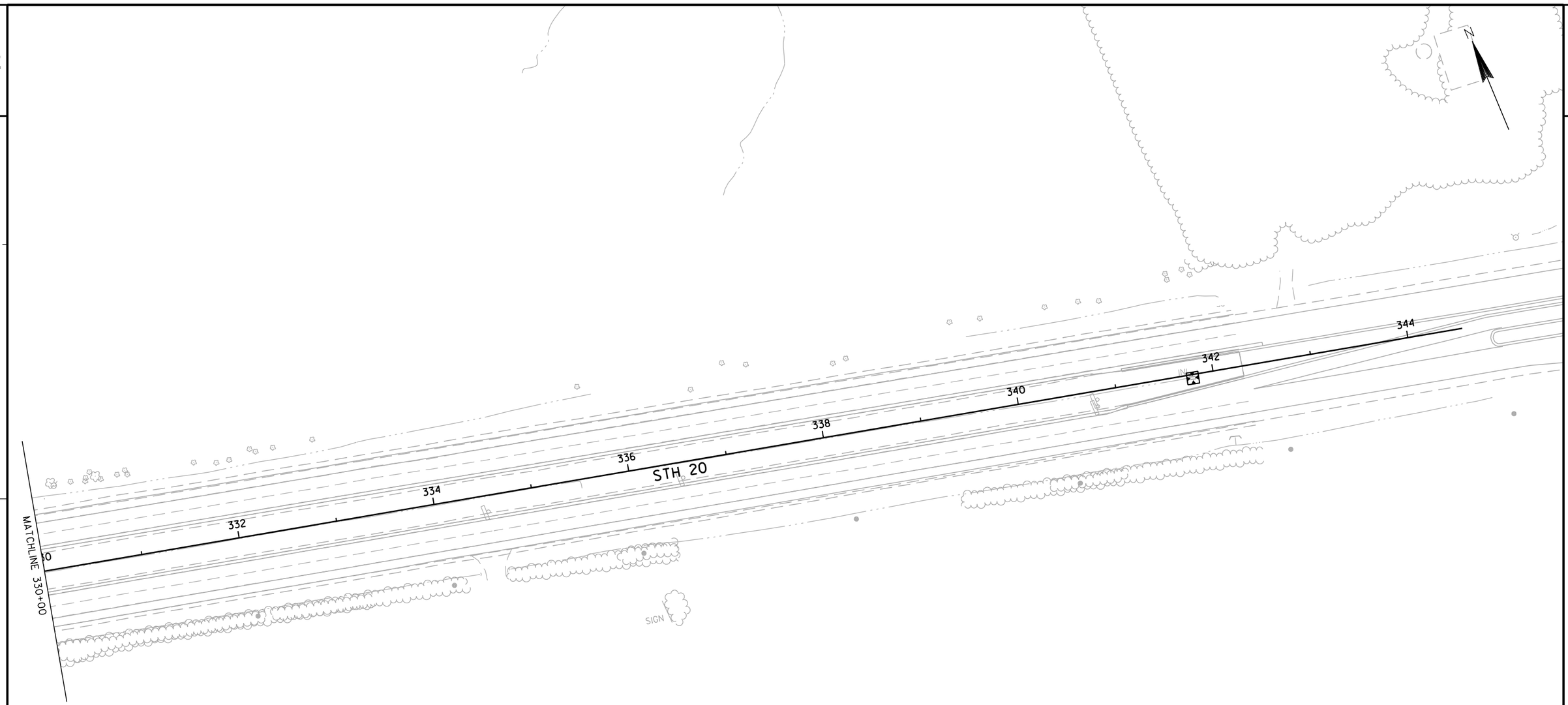
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL - EXISTING CONDITION	SHEET	E

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WISDOT/CADDS SHEET 42

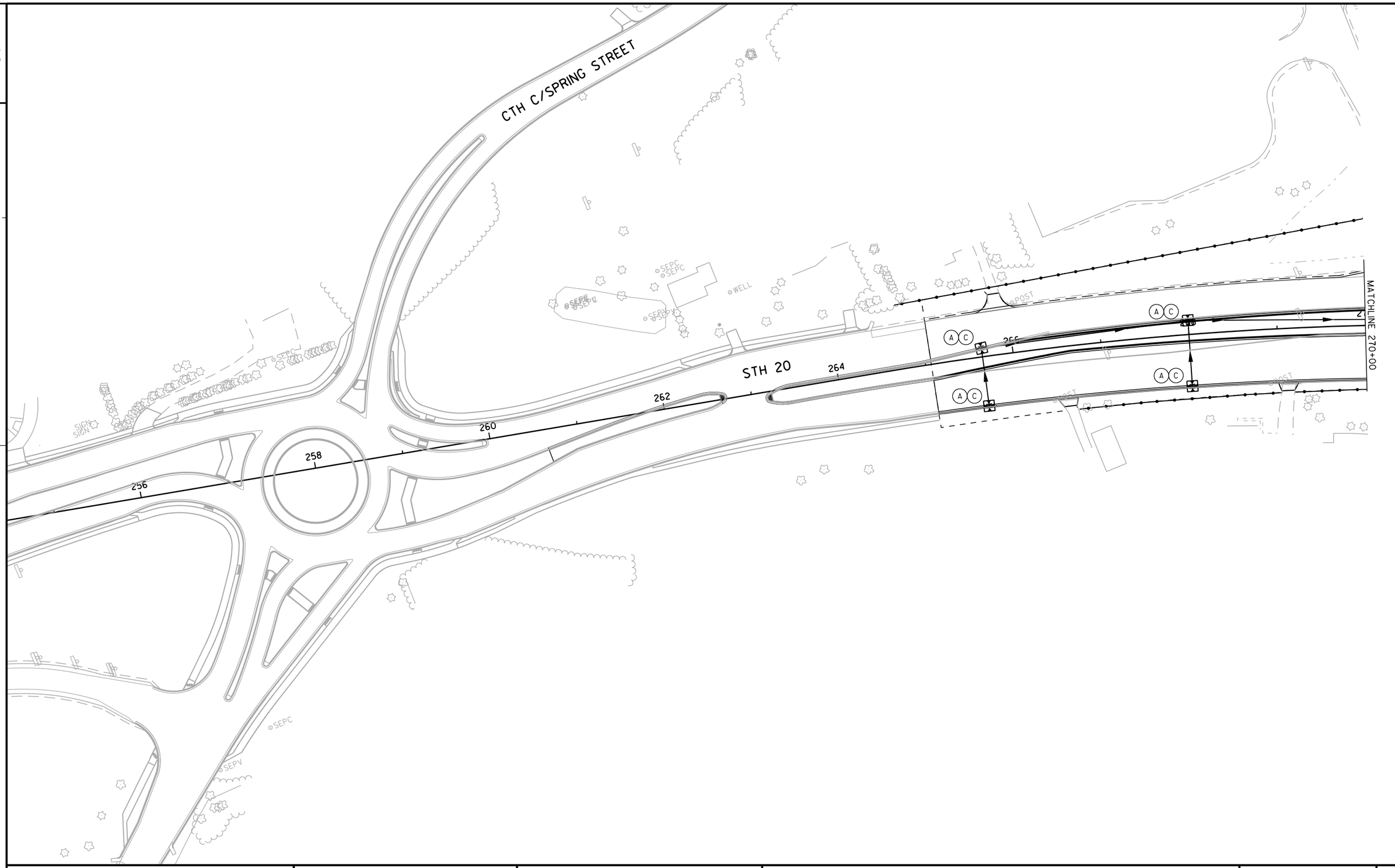
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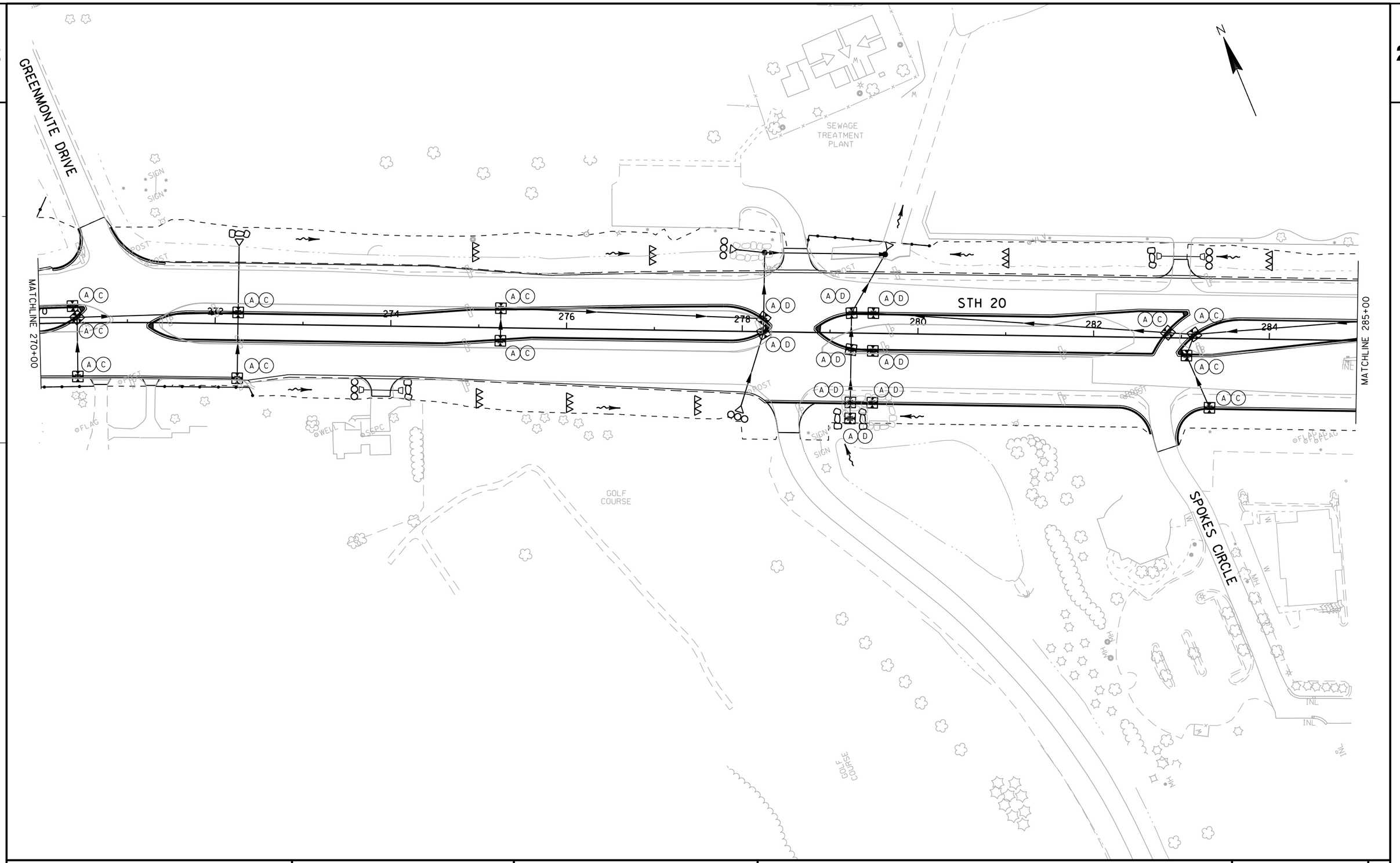
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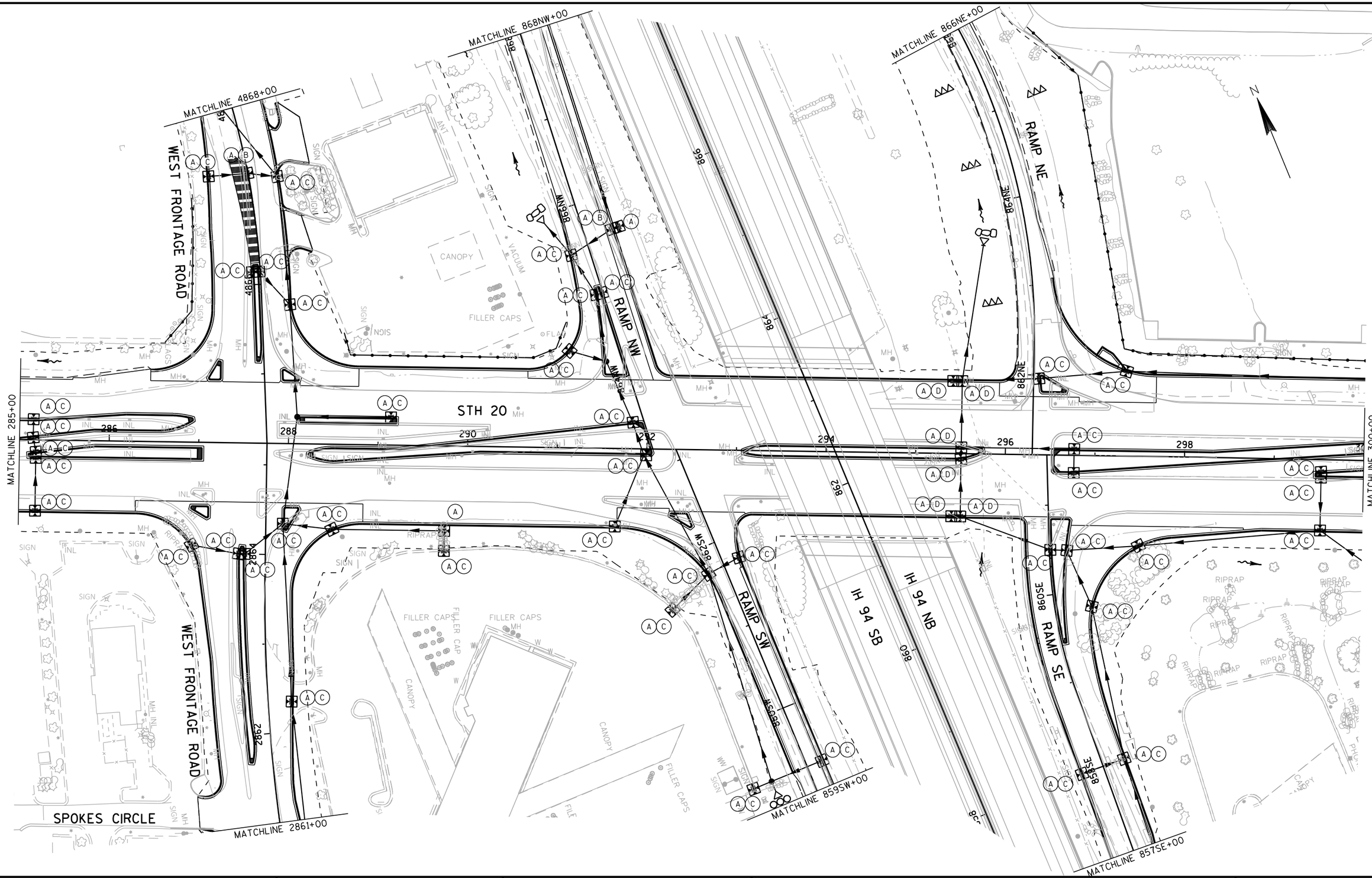
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL	SHEET	E

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL	SHEET	E

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2

MATCHLINE 5863+00

EAST FRONTAGE ROAD

5862

5860

3858

3856

3854

FILLER CAP

CANOPY

SIGN

FLAG

INL

MH

RIPRAP

FILLER CAPS

PHONE

VACUUM

SCALE

FOUND

STH 20

302

304

306

308

310

312

314

MATCHLINE 300+00

MATCHLINE 315+00

GALAXY DRIVE

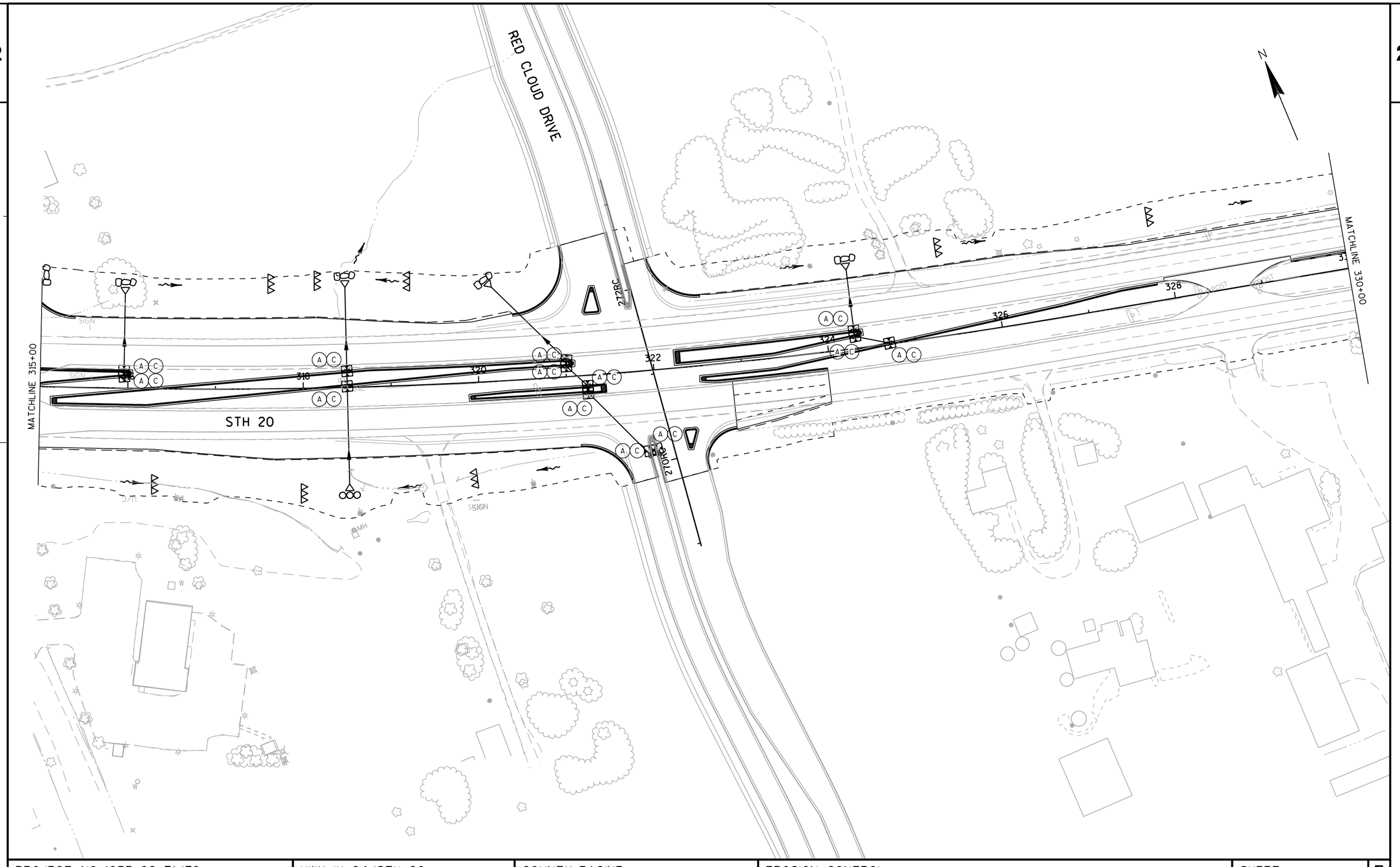
MATCHLINE 3854+00

N

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL	SHEET	E

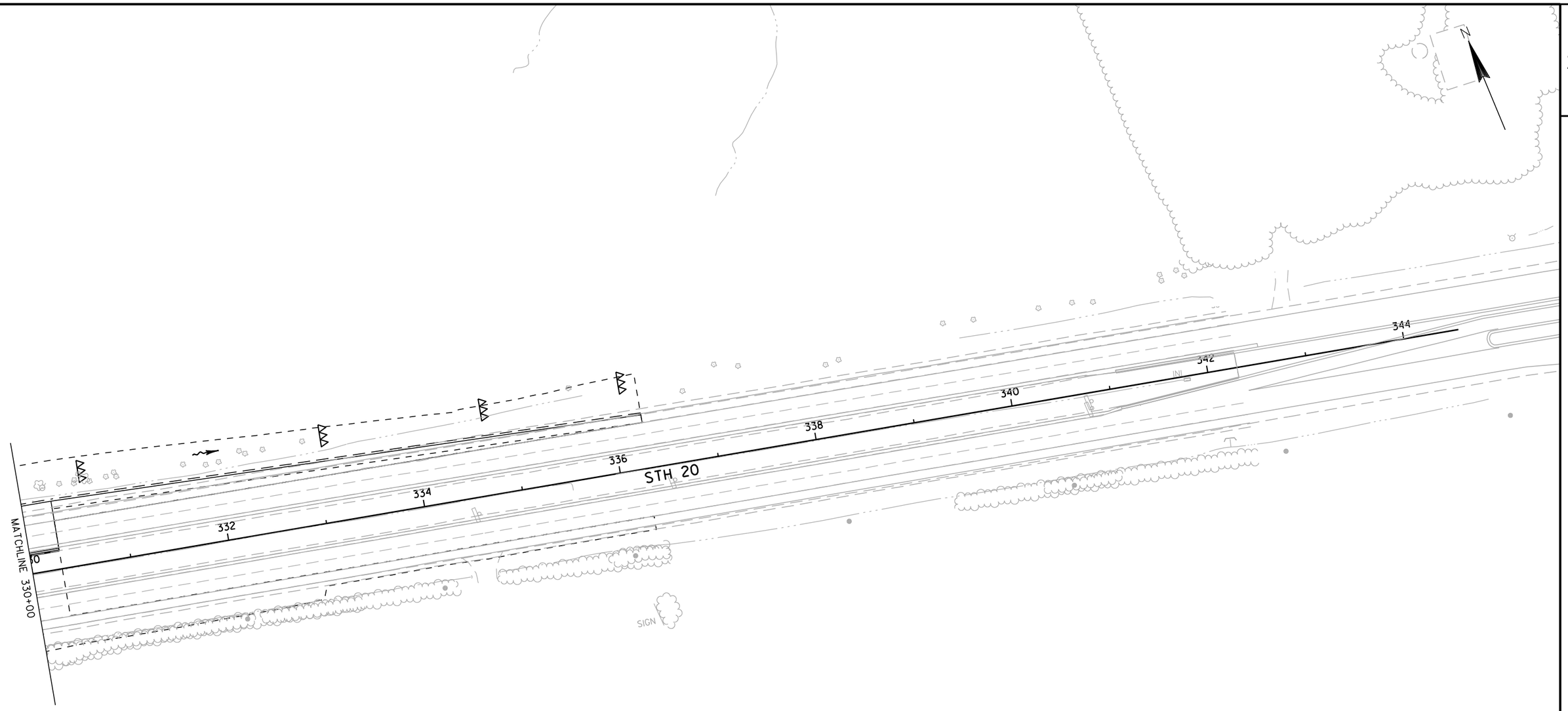
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2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL	SHEET	E

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL	SHEET	E

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WISDOT/CADDS SHEET 42



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL	SHEET	E

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2

EAST FRONTAGE ROAD

WEST FRONTAGE ROAD

RAMP NE

RAMP NW

IH 94 SB

IH 94 NB

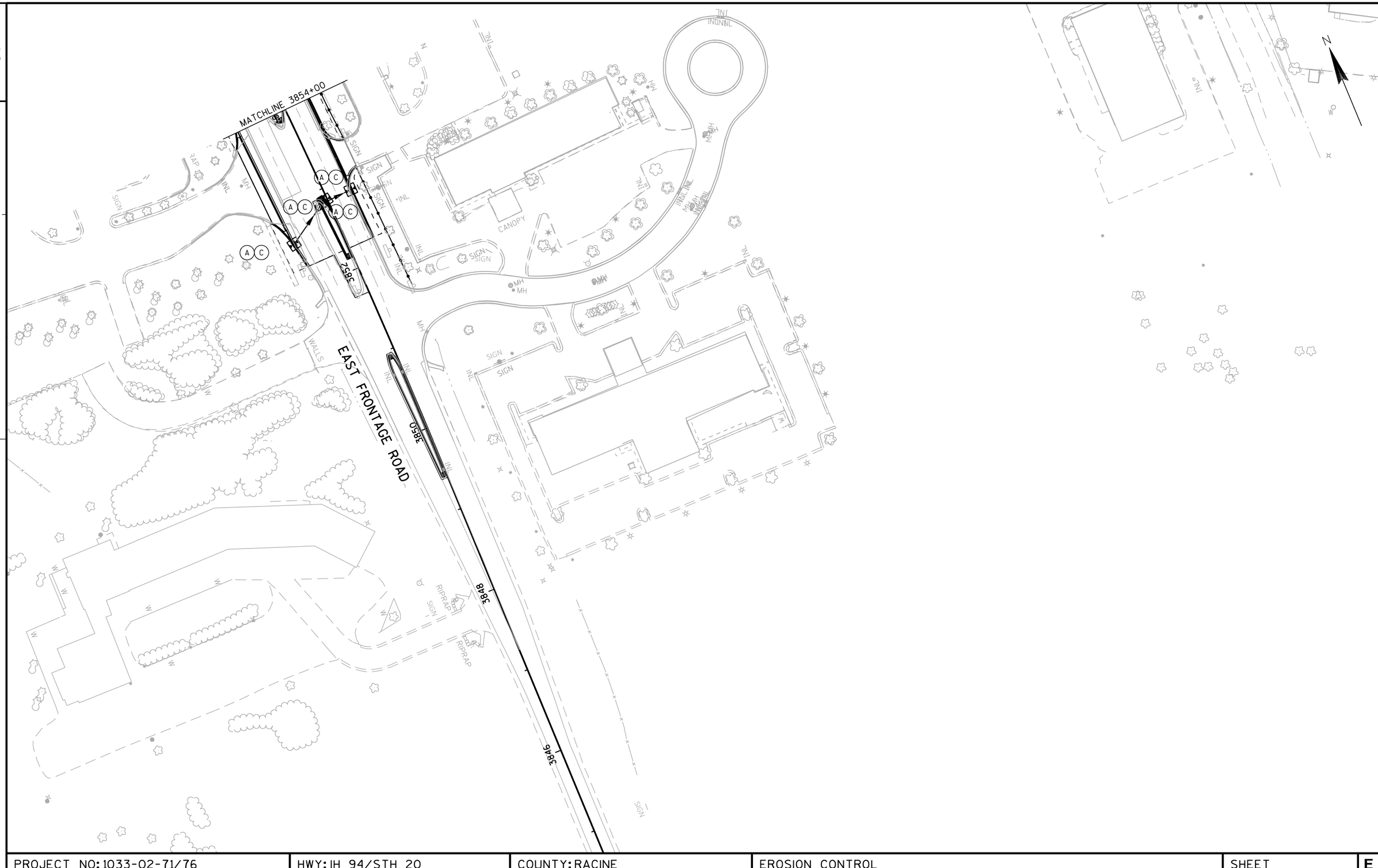
MATCHLINE 4868+00

MATCHLINE 868NW+00

MATCHLINE 866NE+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACIRE	EROSION CONTROL	SHEET	E

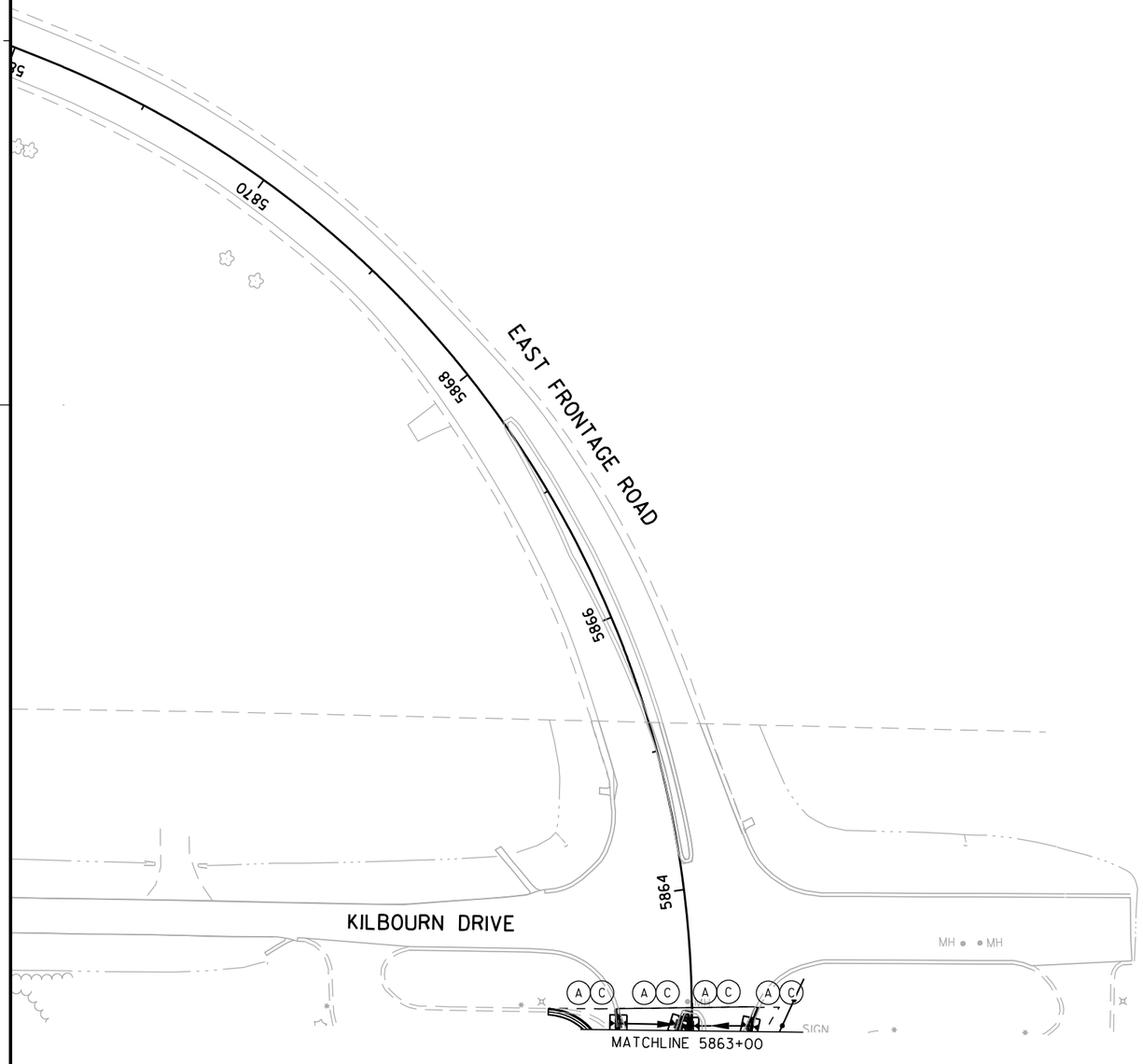
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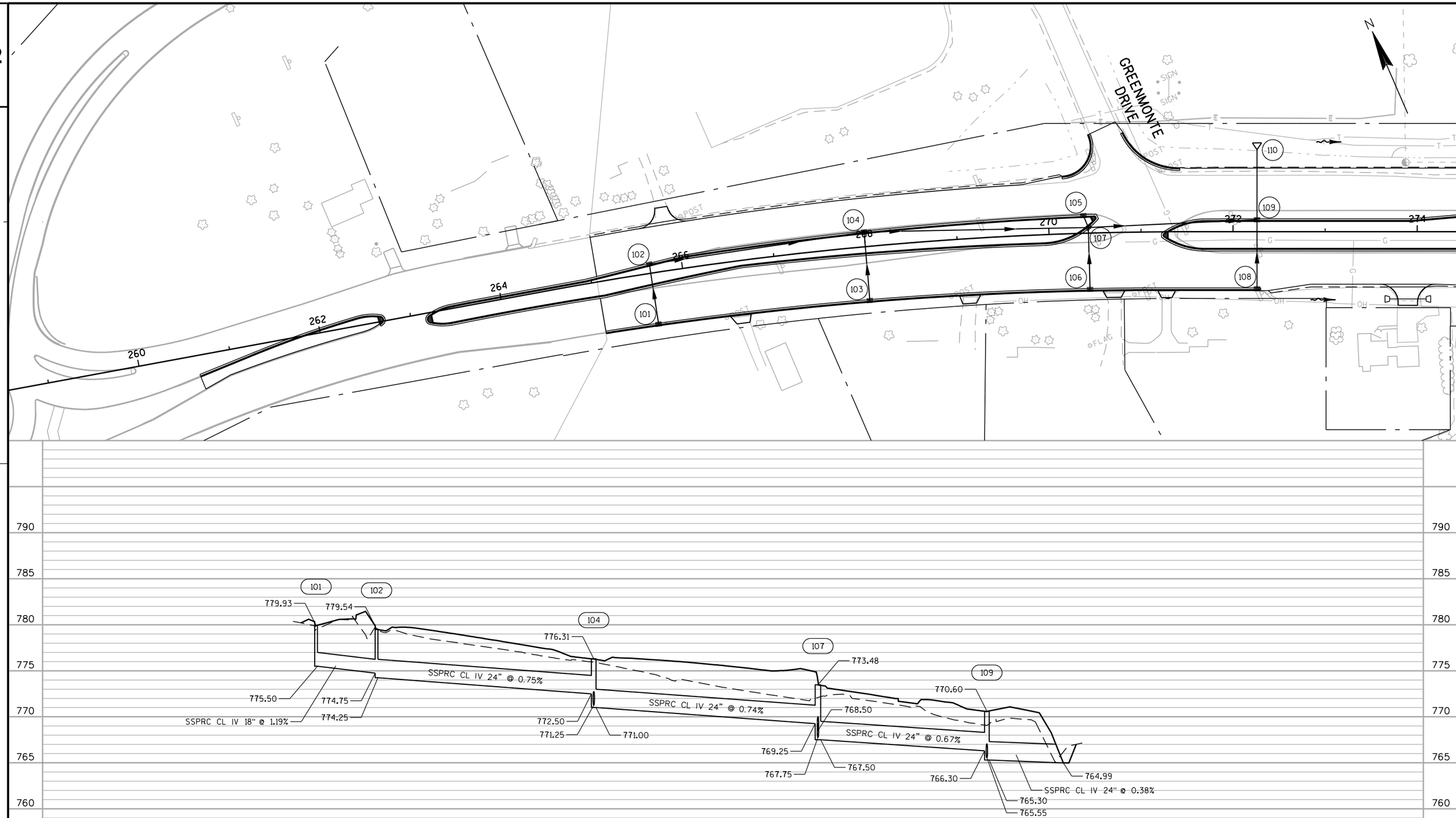
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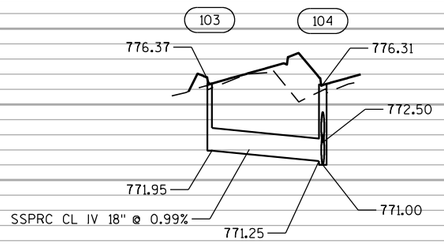


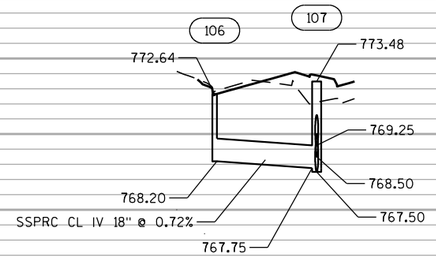
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL	SHEET	E

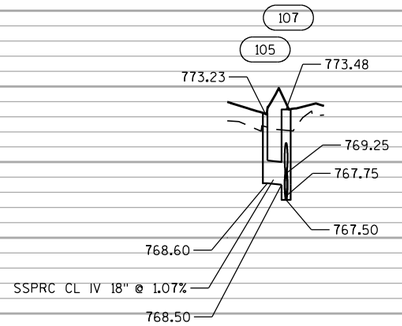


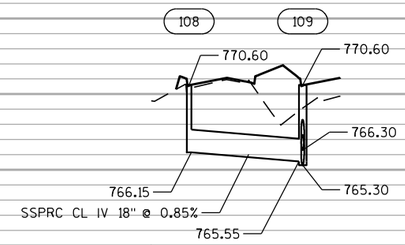
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STORM SEWER	SHEET E

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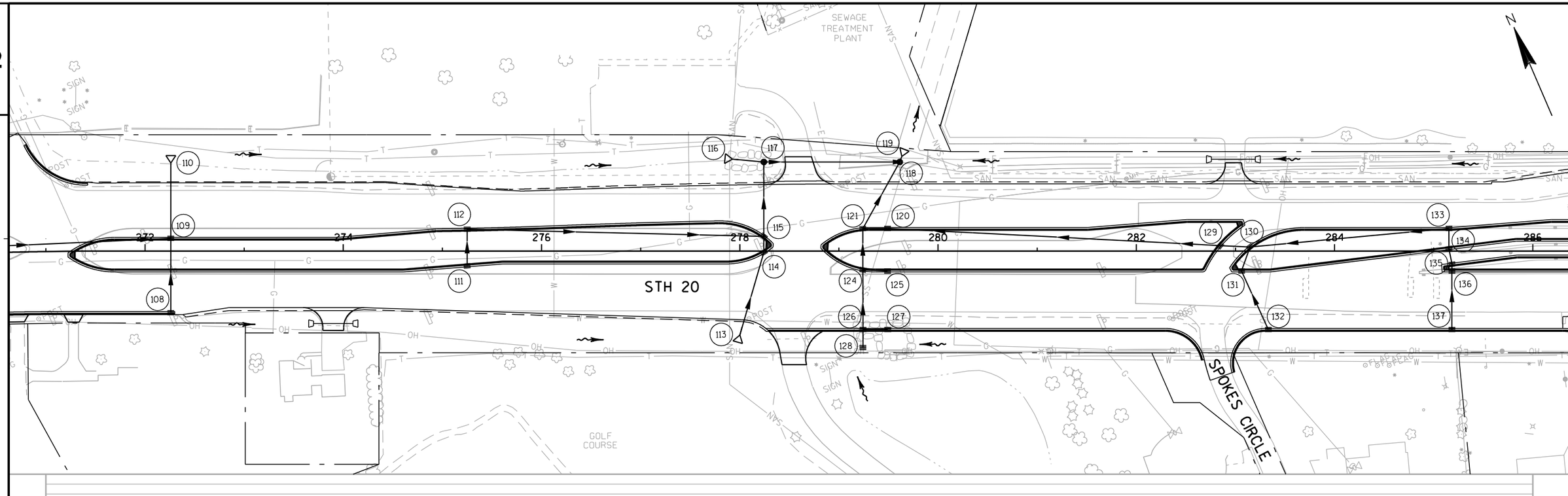


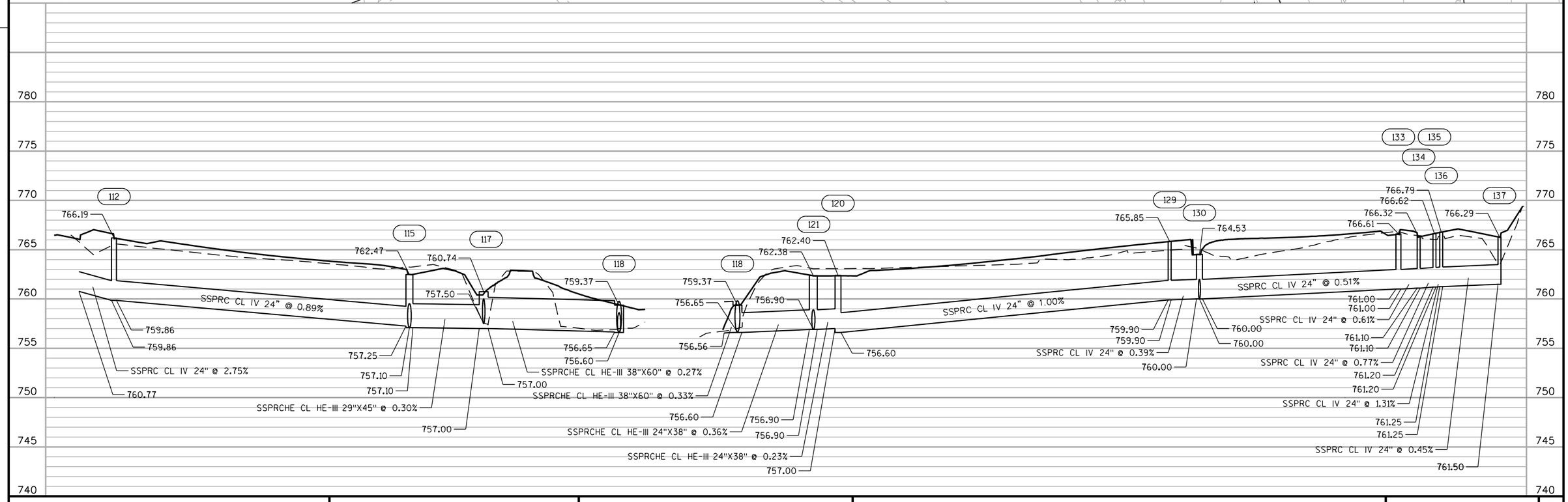


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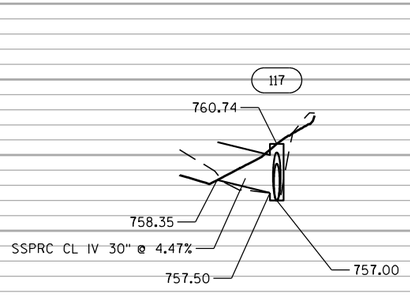
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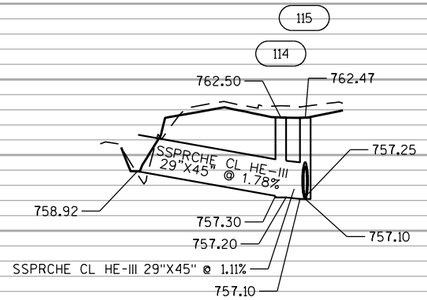
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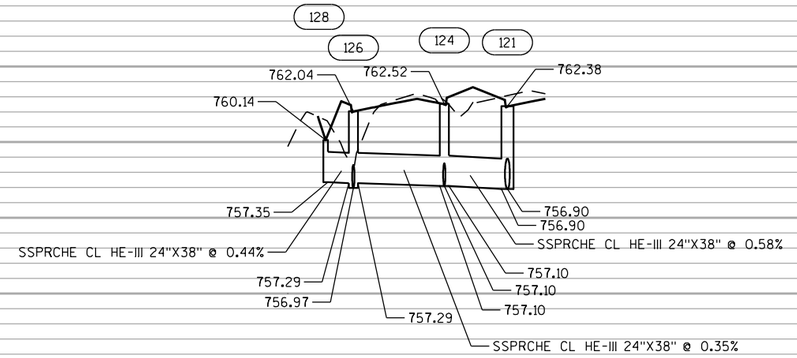


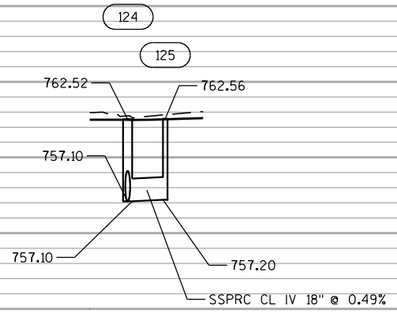


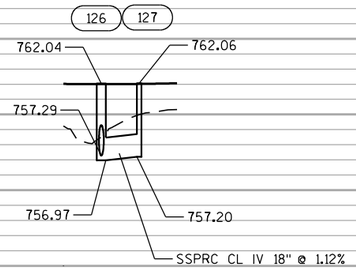
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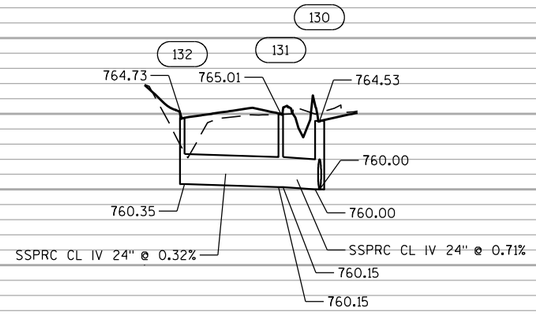




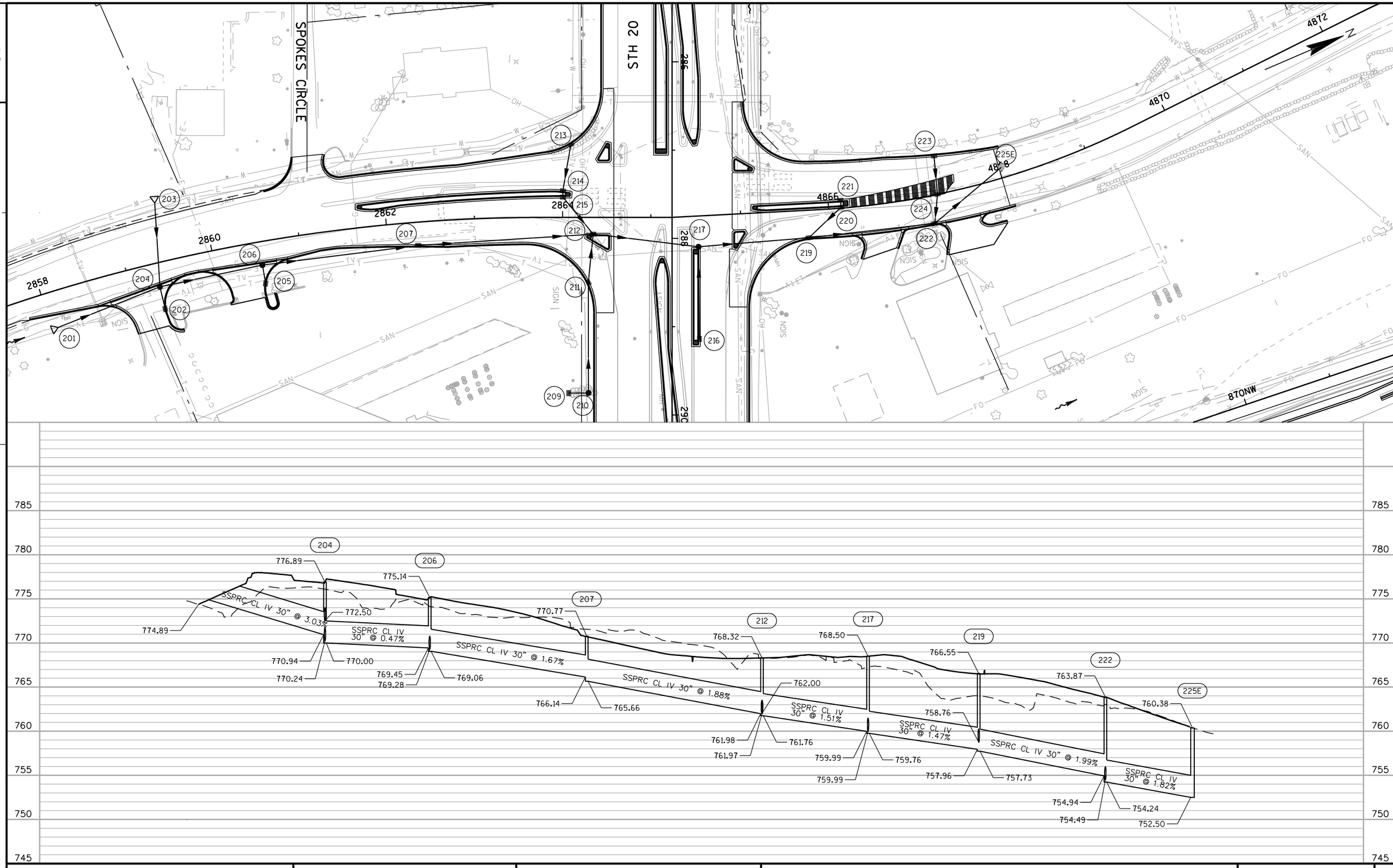




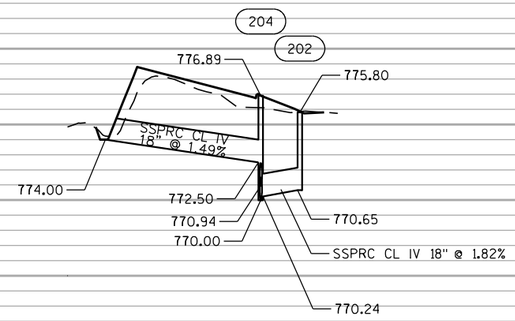


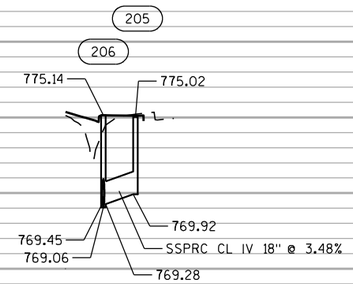


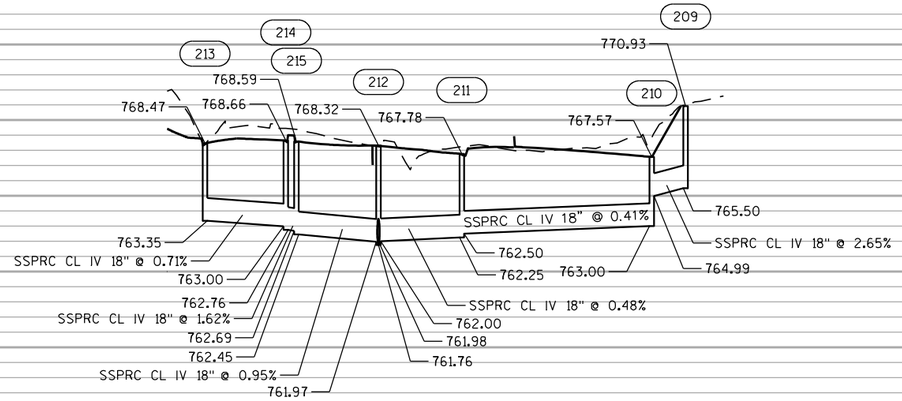
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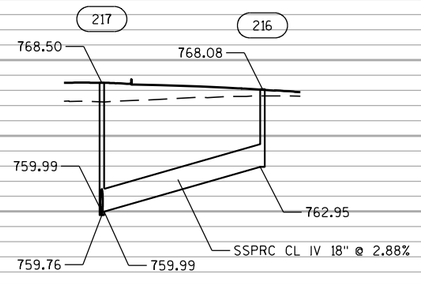


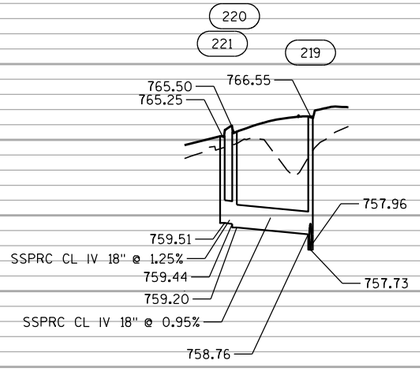
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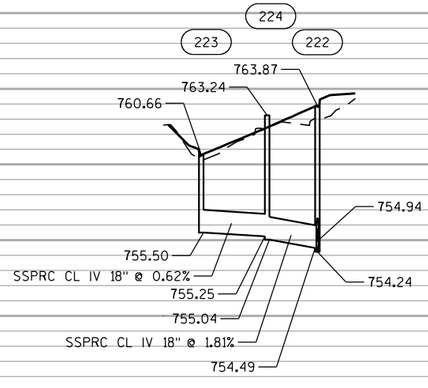




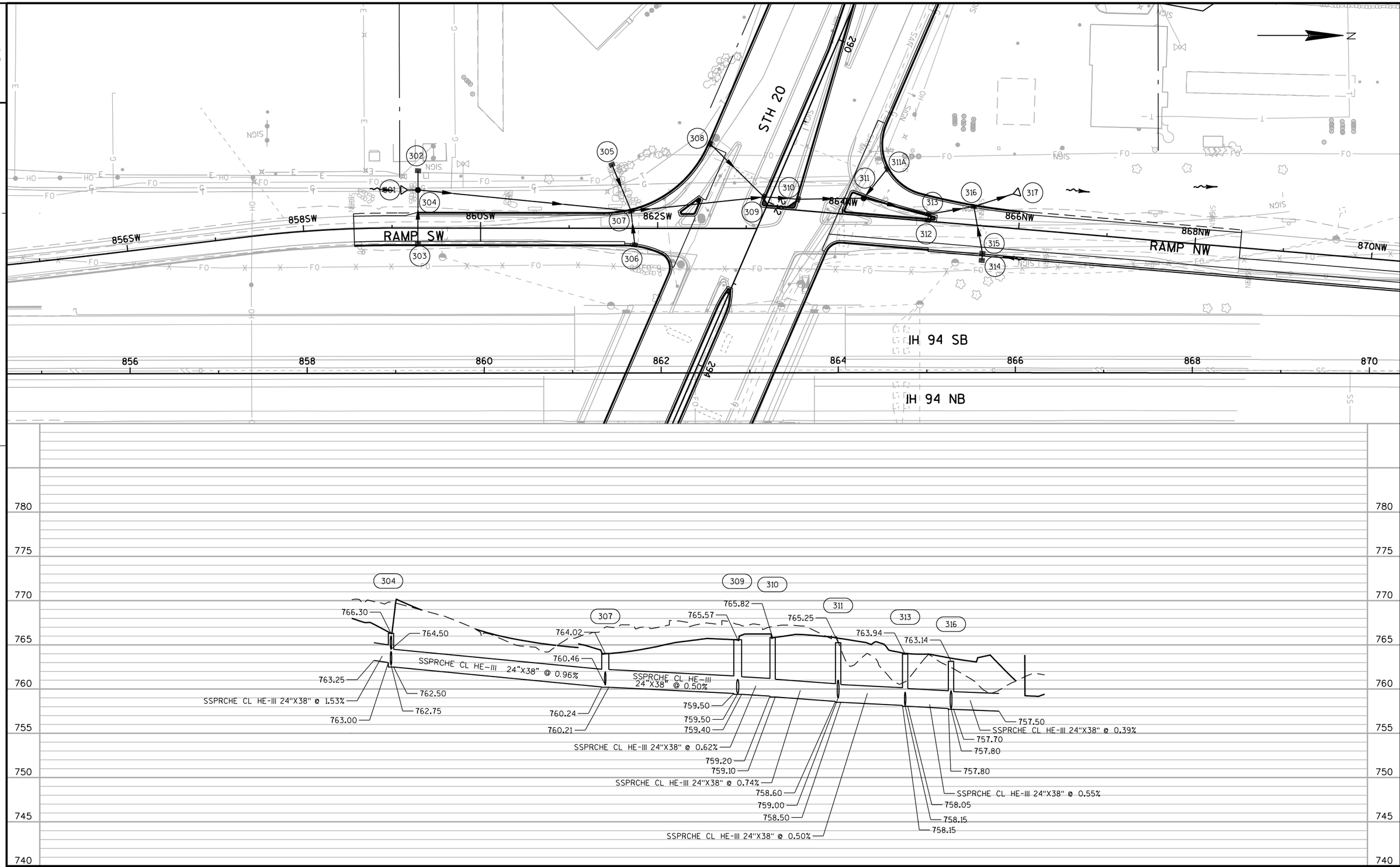




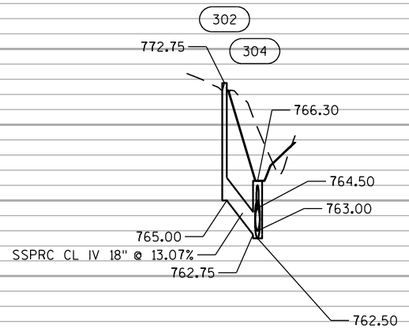


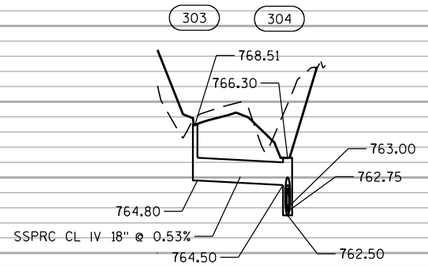


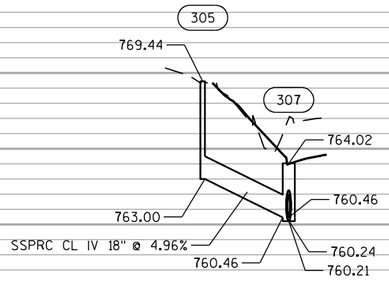
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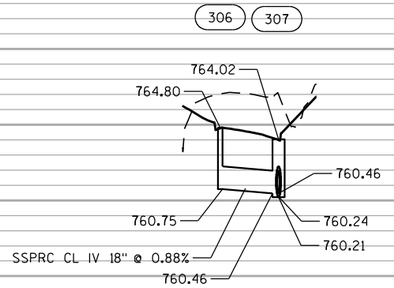


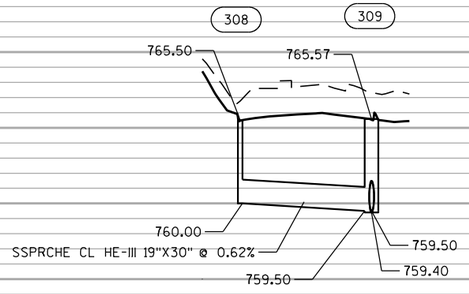
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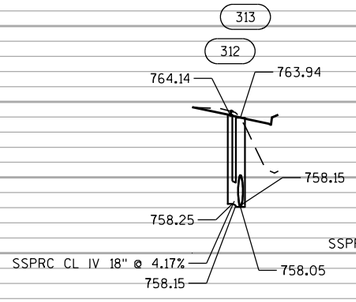


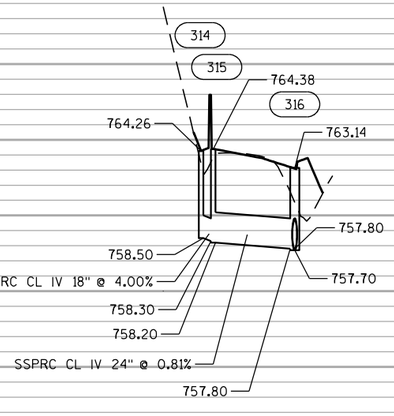


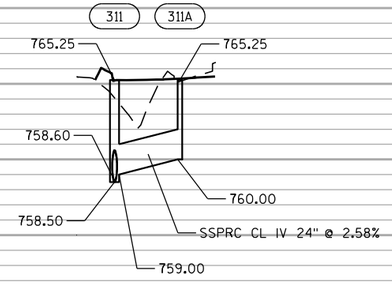




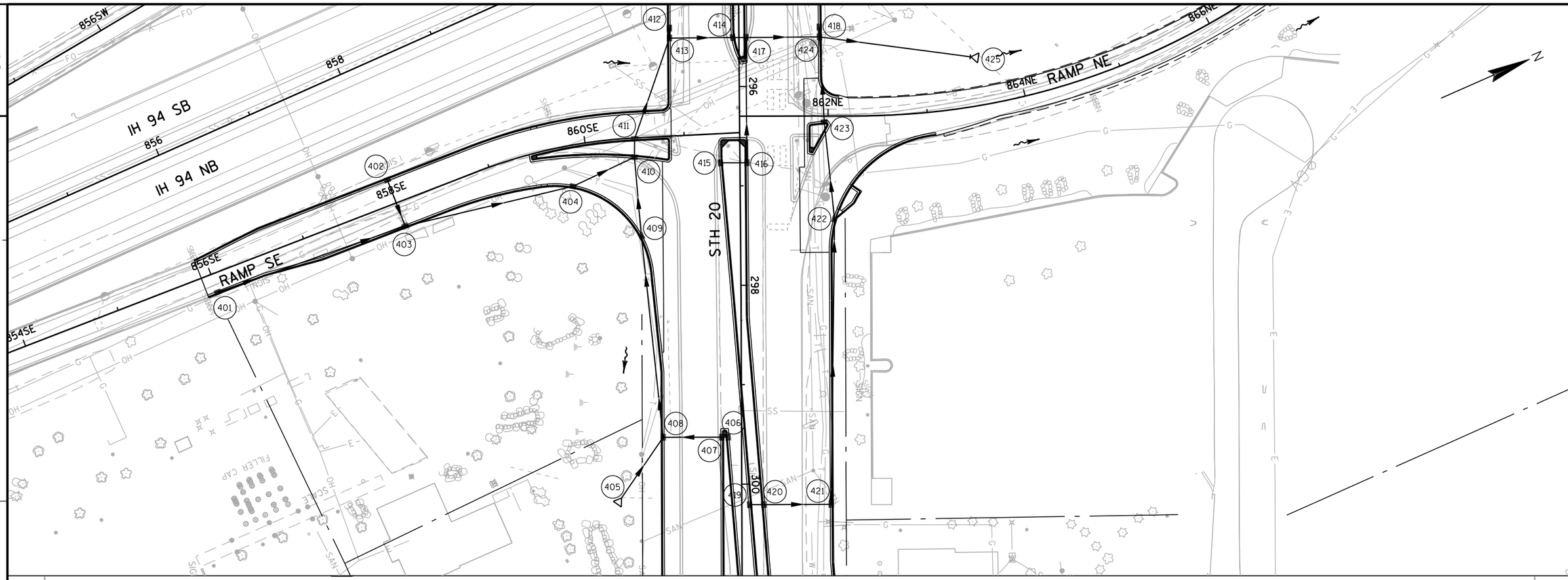


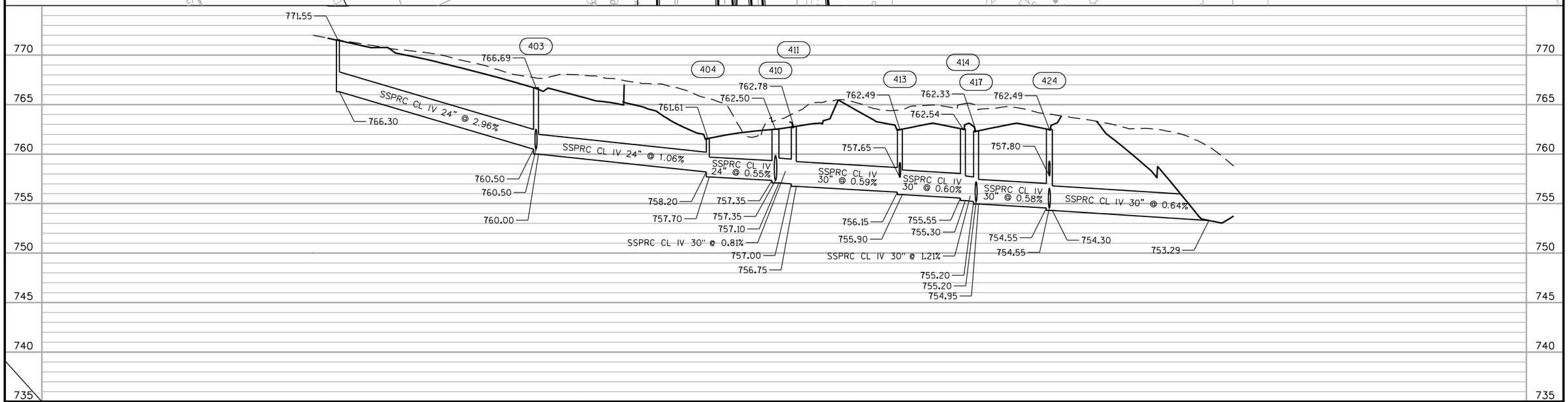






PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STORM SEWER	SHEET	E



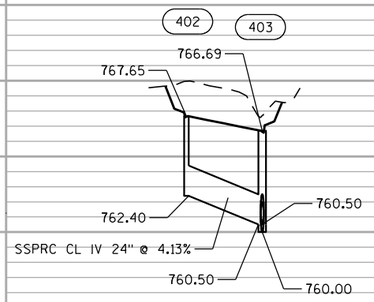


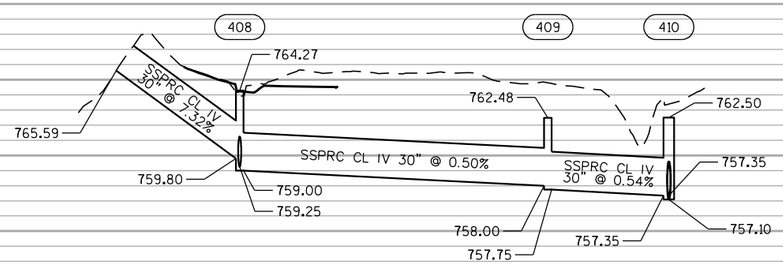
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STORM SEWER	SHEET E

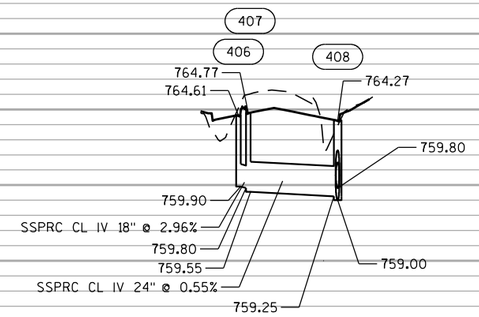
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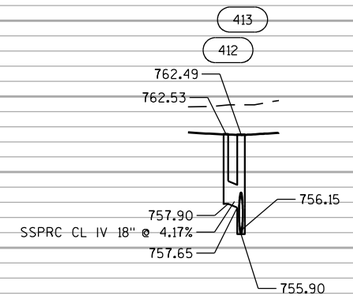
WISDOT/CADDS SHEET 41

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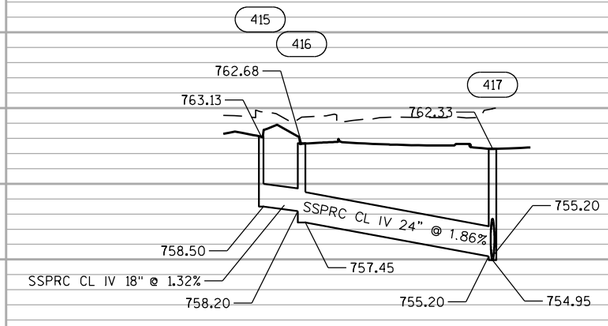


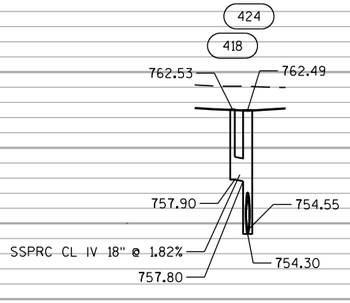


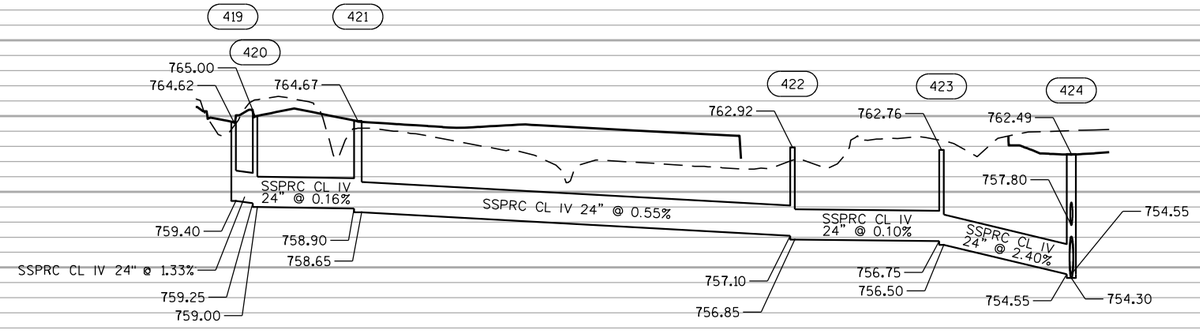




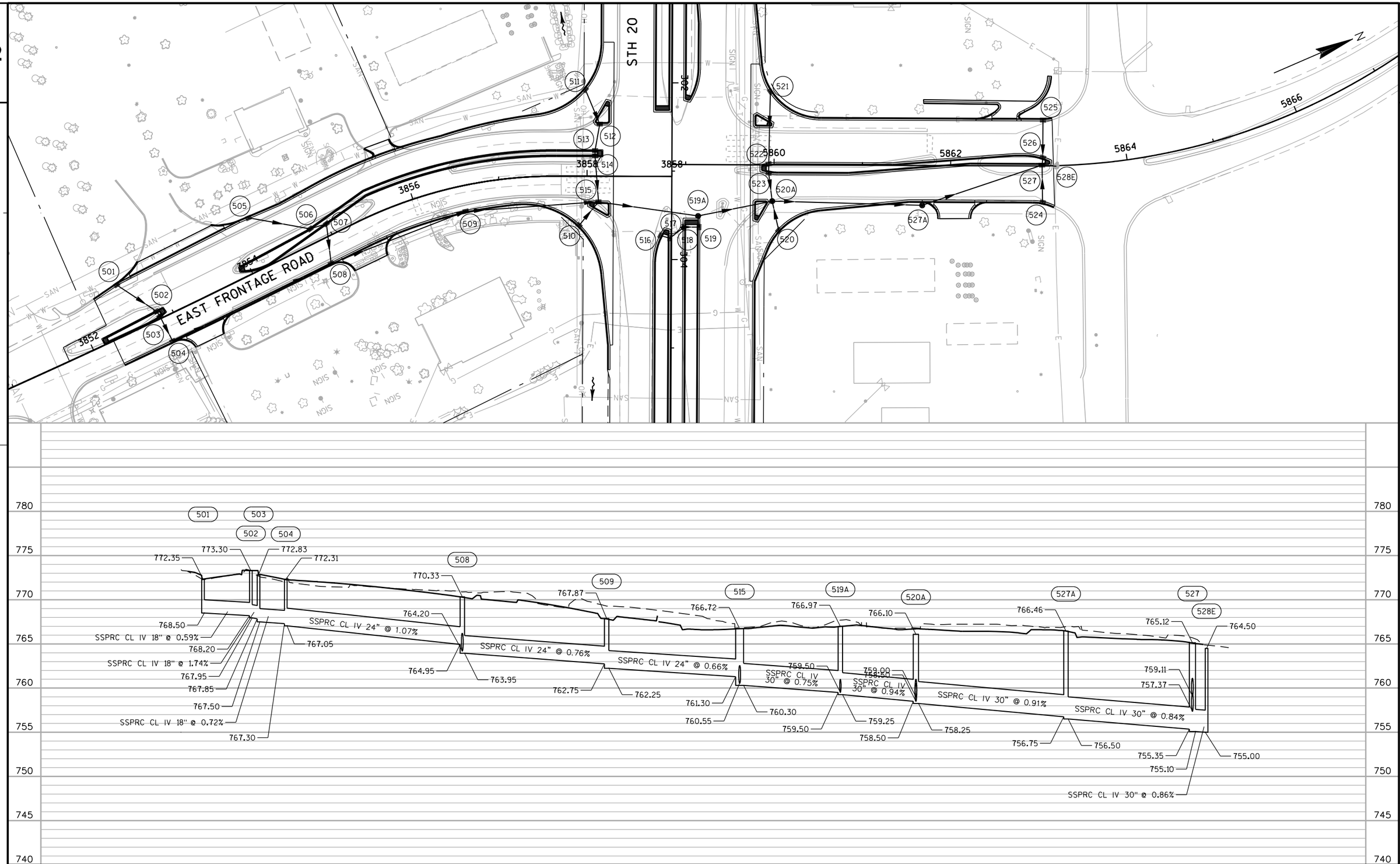
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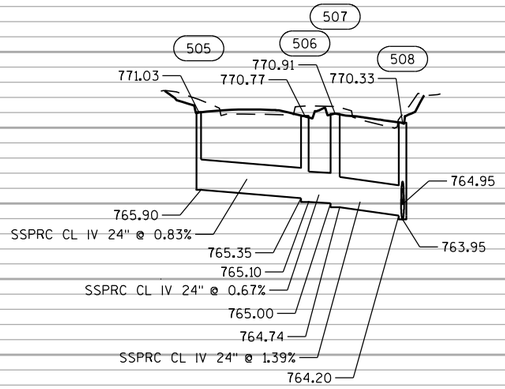


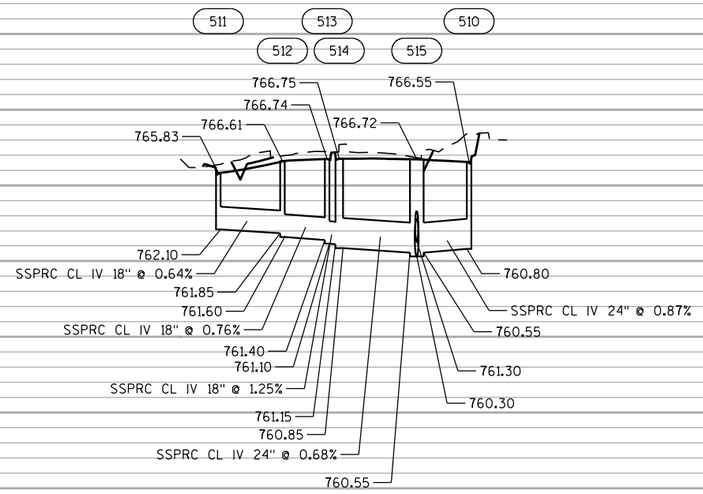


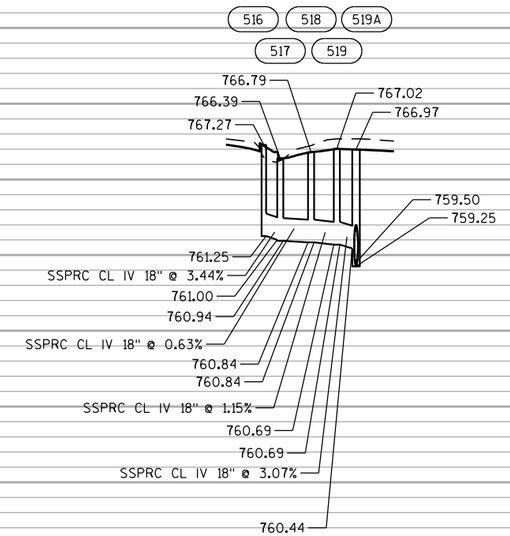
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STORM SEWER	SHEET	E

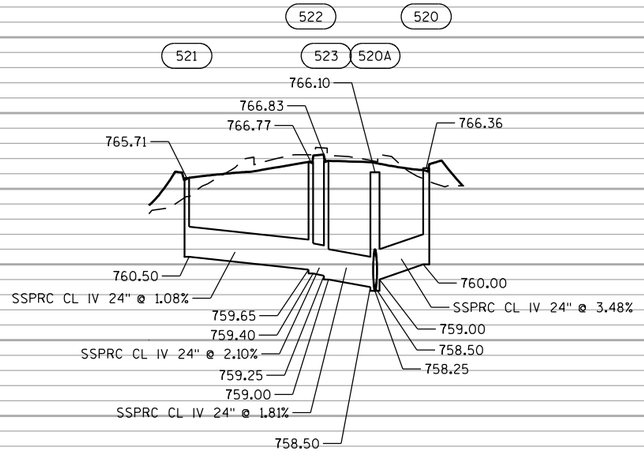


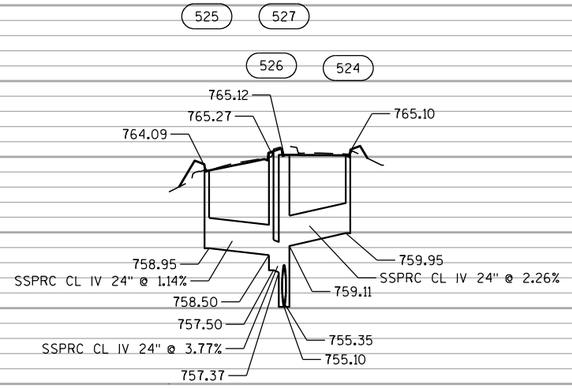
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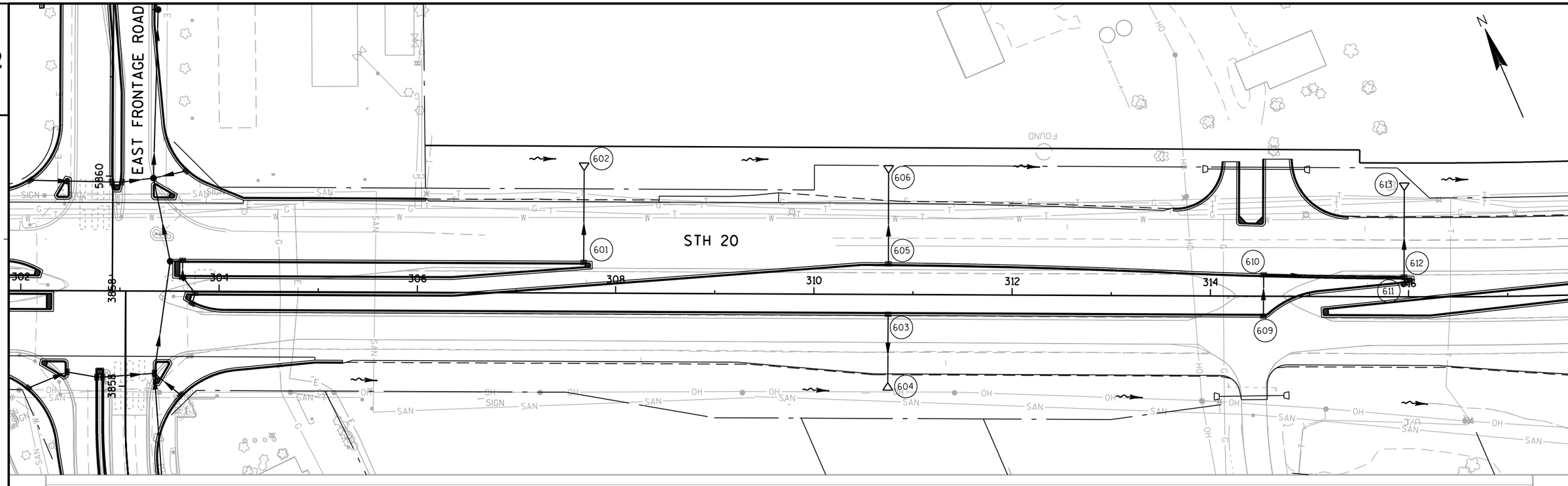


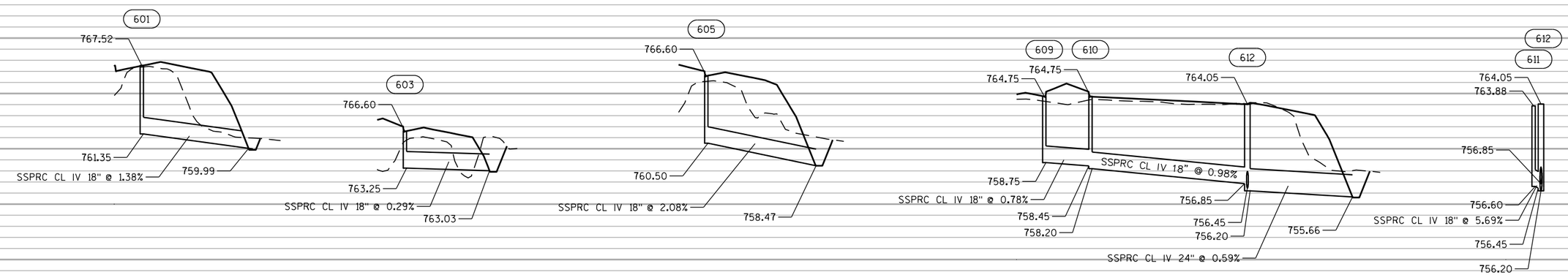




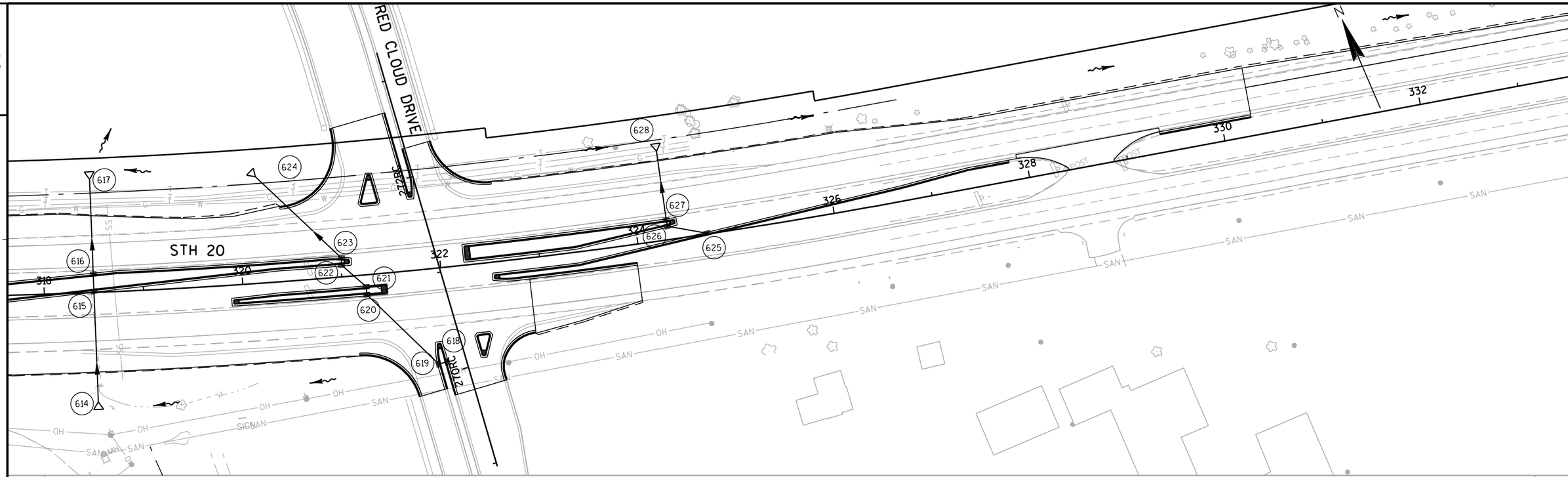


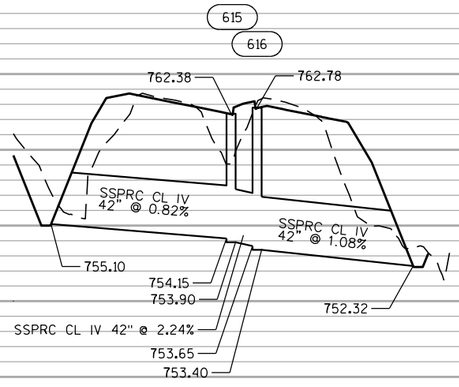
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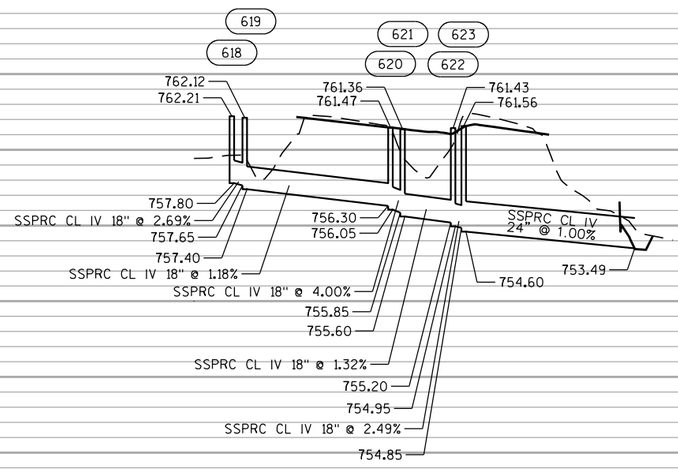


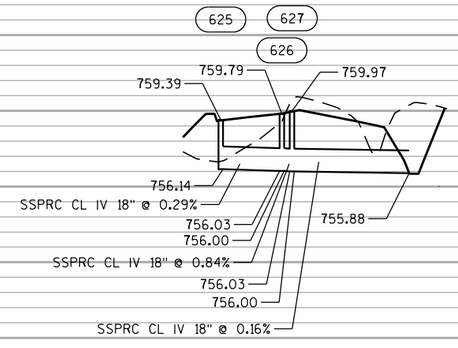


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STORM SEWER	SHEET	E







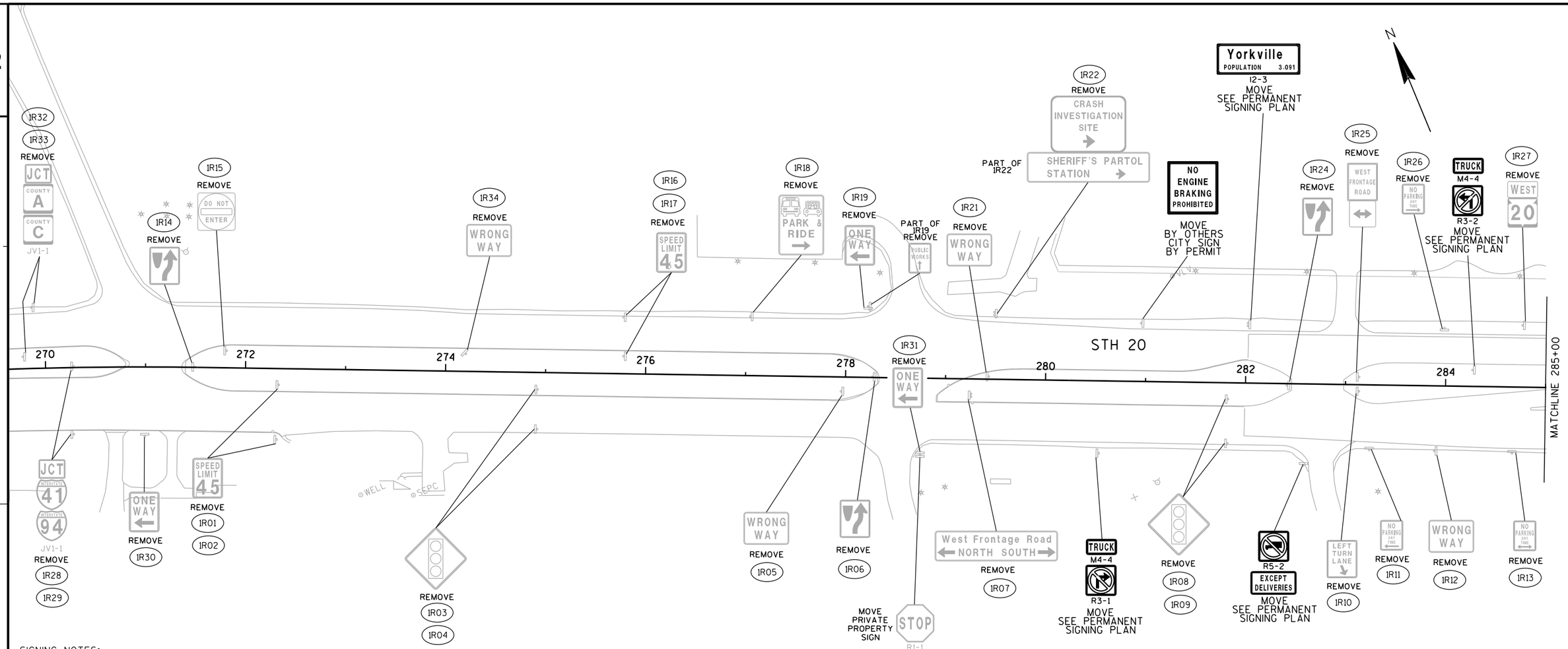


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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STORM SEWER	SHEET E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\022508_ss.dgn PLOT DATE : 12-DEC-2019 02:50 PLOT BY : mscd1s PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 41



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

SIGNING COUNTY COORDINATOR	COUNTY(S)	PHONE #
DENNIS NEWTON	MILWAUKEE	414-750-0257
ANDRE CHAPMAN	RACINE	414-531-2635
JENNY BUCKETT	KENOSHA, WASHINGTON, OZAUKEE	414-750-2427
CHUCK SALDIVAR	WALWORTH, WAUKESHA	414-750-1682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (GENERAL PHONE # 414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

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

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

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

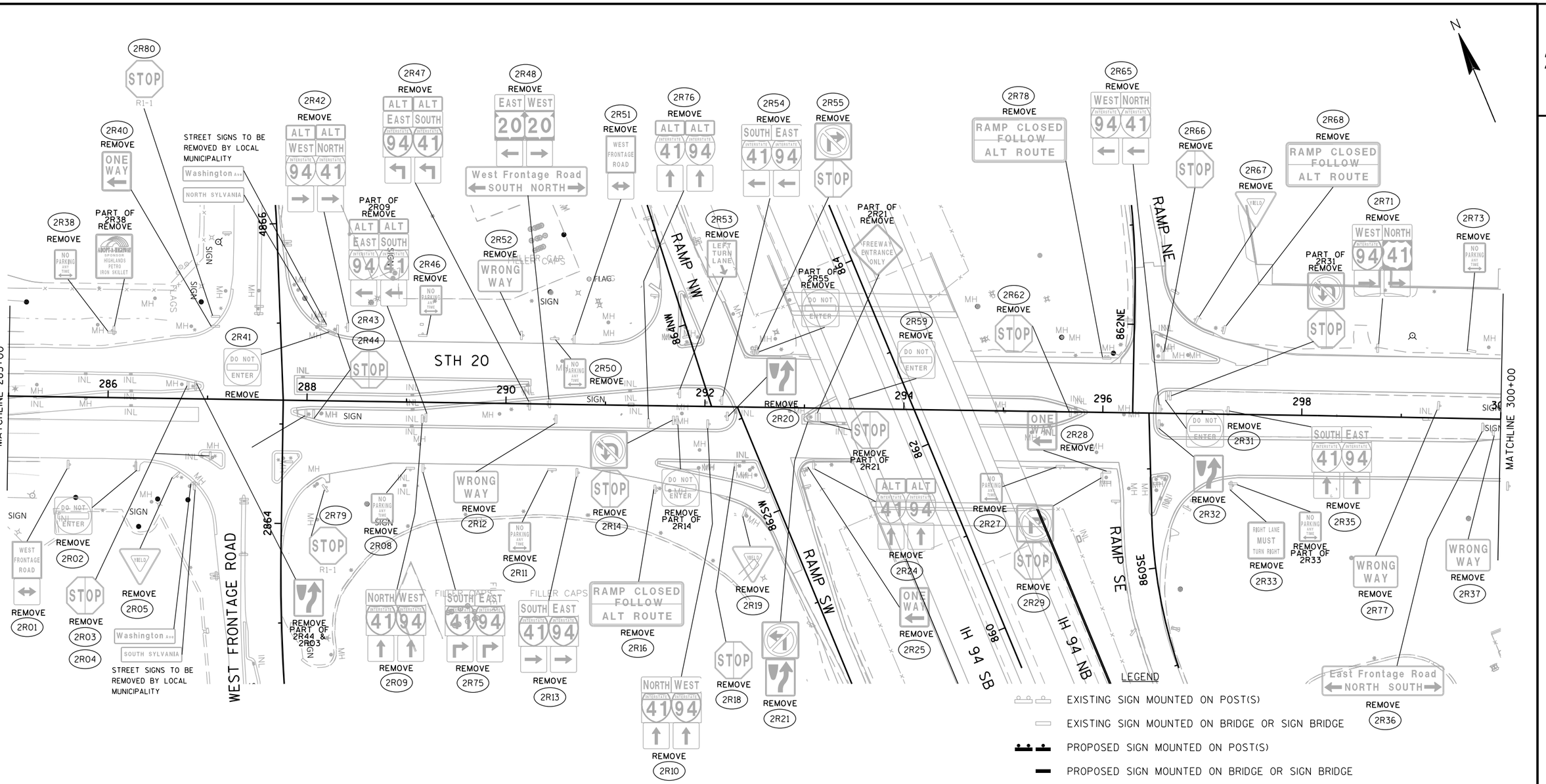
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [ ] — YEAR AGE

SHEET 1 OF 7

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	SIGN REMOVAL PLAN - STH 20	SHEET 173	E

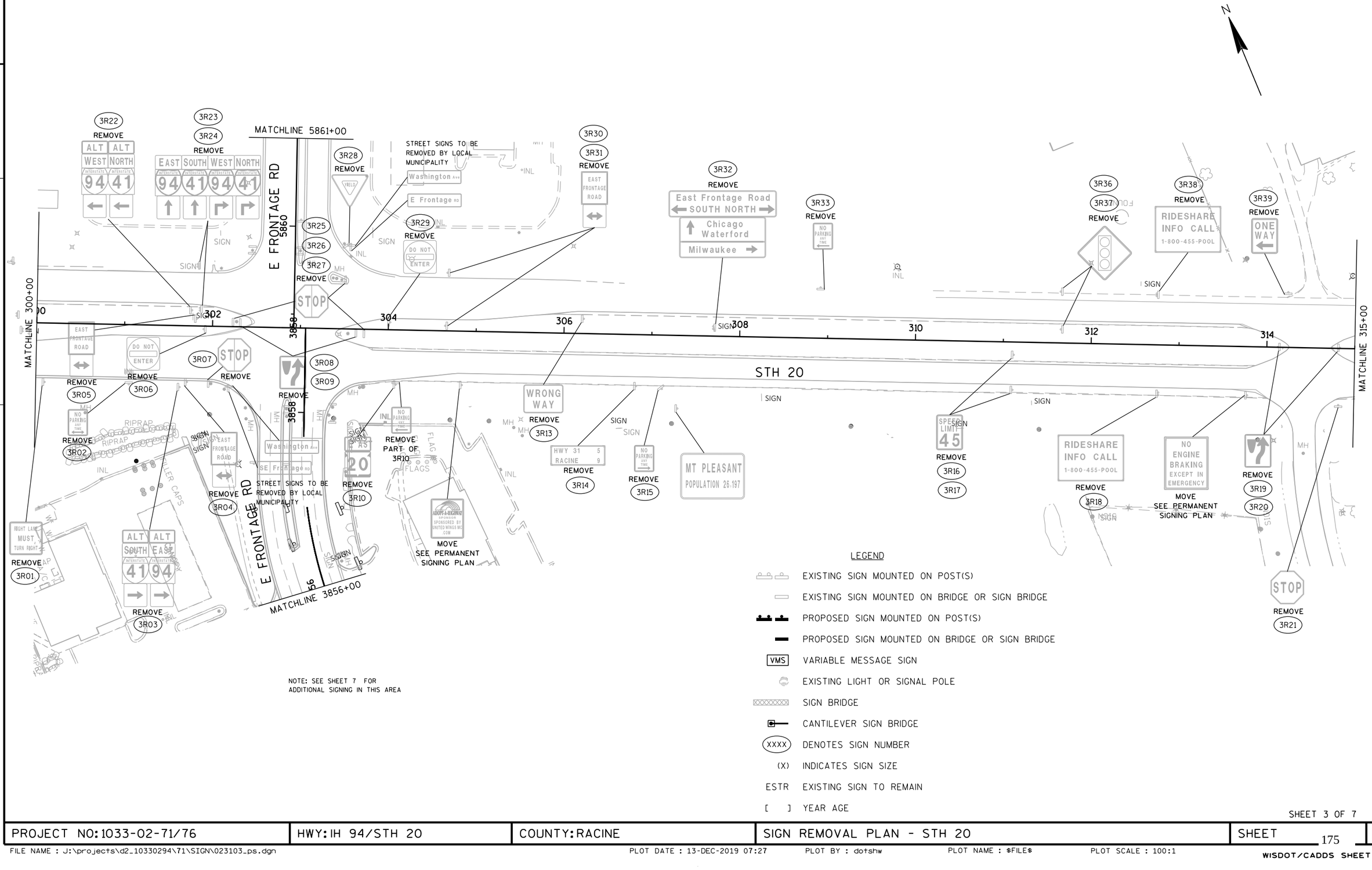


NOTE: SEE SHEET 5 AND SHEET 6 FOR ADDITIONAL SIGNING IN THIS AREA

SHEET 2 OF 7

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	SIGN REMOVAL PLAN - STH 20	SHEET 174 E

2


N
3R22
REMOVE
ALT ALT
WEST NORTH
94 41
3R23
3R24
REMOVE
EAST SOUTH WEST NORTH
94 41 94 41
MATCHLINE 5861+00
E FRONTAGE RD
5860
3858
3R28
REMOVE
YIELD
STREET SIGNS TO BE REMOVED BY LOCAL MUNICIPALITY
Washington Ave
E Frontage RD
3R29
REMOVE
DO NOT ENTER
3R30
3R31
REMOVE
EAST FRONTAGE ROAD
3R25
3R26
3R27
REMOVE
STOP
MH
INL
SIGN
3R32
REMOVE
East Frontage Road
SOUTH NORTH
Chicago
Waterford
Milwaukee
3R33
REMOVE
NO PARKING ANY TIME
3R36
3R37
REMOVE
3R38
REMOVE
RIDESHARE INFO CALL
1-800-455-POOL
3R39
REMOVE
ONE WAY
MATCHLINE 300+00
300
302
304
306
308
310
312
314
MATCHLINE 315+00
STH 20
EAST FRONTAGE ROAD
REMOVE
3R05
DO NOT ENTER
REMOVE
3R06
3R07
STOP
REMOVE
3R08
3R09
REMOVE
NO PARKING ANY TIME
REMOVE
3R02
RIPRAP
WRONG WAY
REMOVE
3R13
HWY 31 5
RACINE 9
REMOVE
3R14
NO PARKING ANY TIME
REMOVE
3R15
MT PLEASANT
POPULATION 26,197
SPEED LIMIT
45
REMOVE
3R16
3R17
RIDESHARE INFO CALL
1-800-455-POOL
REMOVE
3R18
NO ENGINE BRAKING EXCEPT IN EMERGENCY
MOVE
SEE PERMANENT SIGNING PLAN
REMOVE
3R19
3R20
Washington Ave
SE Frontage RD
REMOVE
3R04
REMOVE PART OF 3R10
FLAGS
ADOPT-A-HIGHWAY
SPONSOR
SPONSORED BY UNITED WINGS MC COM
MOVE
SEE PERMANENT SIGNING PLAN
E FRONTAGE RD
STREET SIGNS TO BE REMOVED BY LOCAL MUNICIPALITY
SIGN AS
20
REMOVE
3R10
RIGHT LANE MUST TURN RIGHT
REMOVE
3R01
ALT ALT
SOUTH EAST
41 94
REMOVE
3R03
MATCHLINE 3856+00
NOTE: SEE SHEET 7 FOR ADDITIONAL SIGNING IN THIS AREA
STOP
REMOVE
3R21
LEGEND
EXISTING SIGN MOUNTED ON POST(S)
EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
PROPOSED SIGN MOUNTED ON POST(S)
PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
VMS VARIABLE MESSAGE SIGN
EXISTING LIGHT OR SIGNAL POLE
SIGN BRIDGE
CANTILEVER SIGN BRIDGE
XXXX DENOTES SIGN NUMBER
(X) INDICATES SIGN SIZE
ESTR EXISTING SIGN TO REMAIN
[ ] YEAR AGE

2

2

N

4R04
4R05
REMOVE

JCT INTERSTATE 94 JCT INTERSTATE 41

SIGN

SIGN

4R06
4R07
REMOVE

SPEED LIMIT 45

4R08
4R09
REMOVE

SPEED LIMIT 45

4R12
REMOVE

ONE WAY

MATCHLINE 315+00

316 318 320 322 324 326 328 330

INL INL

2 POST

2 POST

STH 20

272RC

270RC

SPEED LIMIT 55

REMOVE
4R01
4R02

WRONG WAY

REMOVE
4R03

DO NOT ENTER

REMOVE
4R13

REMOVE
4R10
4R11

SIGN

MH

W

DOWNTOWN RACINE 9 MILES

WAYFINDER SIGN (BROWN)

STEEL POSTS

CITY OF RACINE SIGN
BY PERMIT
MOVE BY OTHERS
CITY OF RACINE
TO STATION 325+50

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [ ] — YEAR AGE

SHEET 4 OF 7

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	SIGN REMOVAL PLAN - STH 20	SHEET 176	E

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [ ] — YEAR AGE

2

2

5R59 REMOVE — NOTE: SEE SHEET 2 FOR ADDITIONAL SIGNING IN THIS AREA

5R58 REMOVE — NO PARKING ON RAMP (EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES)

5R39 REMOVE — NO PARKING ANY TIME

5R40 REMOVE — PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED

5R41 REMOVE — NO PARKING ANY TIME

5R31 REMOVE — WRONG WAY

5R42 REMOVE — STOP

5R43 REMOVE — YIELD

5R44 REMOVE — EAST WEST 20 20

[2016] *TOURIST INFORMATION 0.2 MILE — MOVE SEE PERMANENT SIGNING PLAN

[2017] Frank Lloyd Wright Design Buildings Wingspread SC Johnson — MOVE SEE PERMANENT SIGNING PLAN

5R49 REMOVE — PARK & RIDE; NO PARKING ANY TIME

5R65 5R66 — ONLY / ONLY

5R62 5R63 REMOVE — WRONG WAY

5R67 — ONLY / ONLY

5R61 REMOVE — ONE WAY

5R18 REMOVE — CRASH INVESTIGATION SITE

RAMP CLOSED FOLLOW ALT ROUTE

[2016] MOVE SEE PERMANENT SIGNING PLAN — Sherrifs Substation

5R26 REMOVE

5R27 REMOVE — NO PARKING ANY TIME

5R28 REMOVE — NO PARKING ANY TIME

5R30 REMOVE — DO NOT ENTER

5R33 REMOVE — NO PARKING ANY TIME

5R34 REMOVE — Amtrak Station

5R32 REMOVE — LEFT LANE MUST TURN LEFT

5R35 REMOVE — NO PARKING ANY TIME

GAS — MOVE BY OTHERS WISC BUSINESS LOGOS 608-579-1570

5R60 REMOVE — PARK & RIDE

5R21 5R22 REMOVE — LEFT LANE MUST TURN LEFT; NO PARKING ANY TIME

REMOVE PART OF 5R08 & 5R09 — STOP

5R52 REMOVE — Amtrak Station

5R19 REMOVE — WRONG WAY

MOVE SEE PERMANENT SIGNING PLAN — Yorkville

MOVE SEE PERMANENT SIGNING PLAN — TOURIST INFORMATION

[2016] Racine Mt Pleasant Waterford Sheriff's Substation — MOVE SEE PERMANENT SIGNING PLAN

5R23 REMOVE — RAMP CLOSED FOLLOW ALT ROUTE

5R24 5R25 REMOVE — PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED; FREEWAY ENTRANCE ONLY

854SW 856SW 858SW 860SW 862SW 864NW 866NW 868NW — RAMP SW / RAMP NW

854 856 858 860 862 864 866 868

854SE 856SE 858SE 860SE — RAMP SE

862NE 864NE 866NE 868NE — RAMP NE

290 292 294 296 298

5R50 REMOVE — 5R64 — NO PARKING ON RAMP (EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES) R7-64

5R51 REMOVE — ALT WEST ALT EAST NORTH WEST 20 20 41 94

FOOD

MOVE BY OTHERS WISC BUSINESS LOGOS 608-579-1570

LODGING ESTR

Frank Lloyd Wright Design Buildings Wingspread SC Johnson — MOVE SEE PERMANENT SIGNING PLAN [2017]

5R57 REMOVE

Waterford / Racine Mt Pleasant / Gateway Tech College

TO WEST FRONTAGE ROAD — TO EAST FRONTAGE ROAD — WEST EAST 20 20

5R53 REMOVE

5R07 REMOVE — YIELD

5R06 REMOVE

5R11 REMOVE — NO PARKING ON RAMP (EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES)

5R56 REMOVE

DO NOT ENTER — WRONG WAY

5R08 5R09 5R10 REMOVE

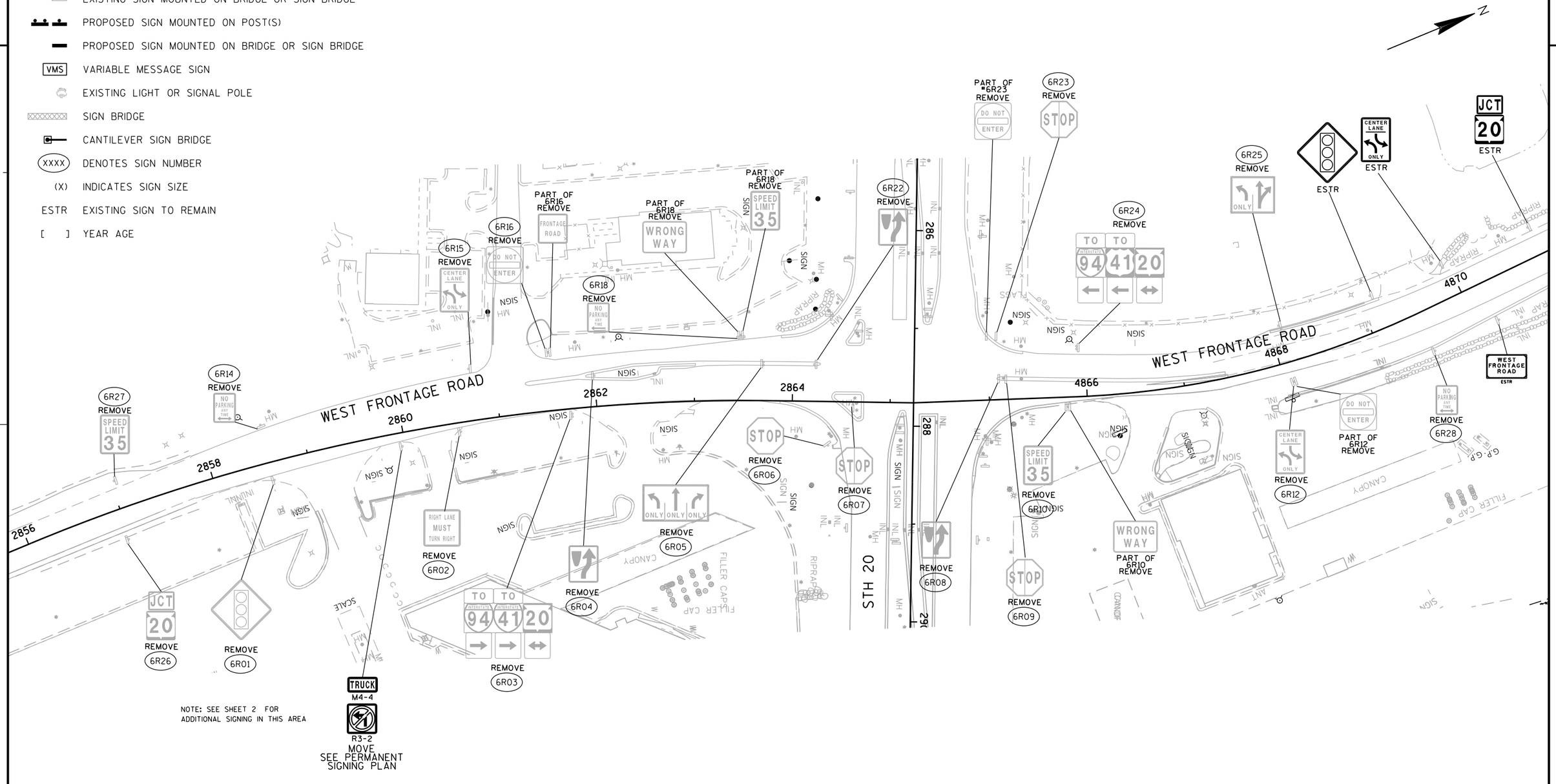
SHEET 5 OF 7

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	SIGN REMOVAL PLAN - RAMPS	SHEET 177	E

FILE NAME : J:\projects\d2_10330294\71\SIGN\023105_ps.dgn — PLOT DATE : 13-DEC-2019 07:27 — PLOT BY : dotshw — PLOT NAME : $FILE$ — PLOT SCALE : 100:1

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [ ] — YEAR AGE



SHEET 6 OF 7

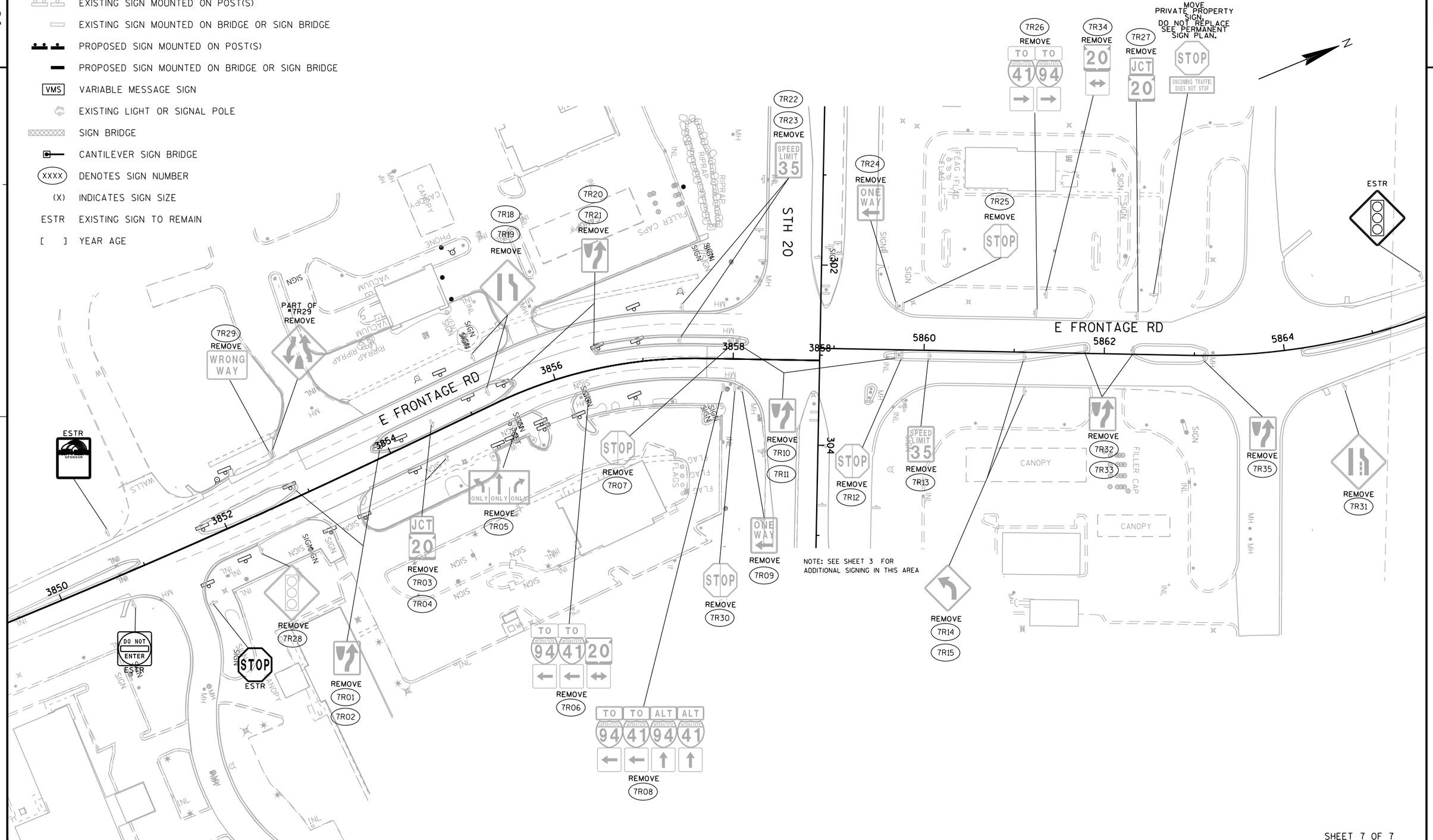
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	SIGN REMOVAL PLAN - WEST FRONTAGE ROAD	SHEET 178 E

FILE NAME : J:\projects\d2_10330294\71\SIGN\023106_ps.dgn PLOT DATE : 13-DEC-2019 07:27 PLOT BY : dotshw PLOT NAME : $FILE$ PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [ ] — YEAR AGE



SHEET 7 OF 7

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	SIGN REMOVAL PLAN - EAST FRONTAGE ROAD	SHEET 179	E

FILE NAME : J:\projects\d2_10330294\71\SIGN\023107_ps.dgn PLOT DATE : 13-DEC-2019 07:27 PLOT BY : dotshw PLOT NAME : $FILE$ PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- PROPOSED LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [ ] YEAR OF EXISTING SIGN

N

ESTR
W3-2

W2-6
15 M.P.H.
W13-1
ESTR

W2-6
15 M.P.H.
W13-1
MOVE
348
348A

STH 20

263 264 265 266 267 268

R4-7
ESTR

349
PARK & RIDE
D4-2L
MOVE

SIGNING NOTES:

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

SIGNING COUNTY COORDINATOR	COUNTY(S)	PHONE #
DENNIS NEWTON	MILWAUKEE	414-750-0257
DENNIS NEWTON	RACINE	414-750-0257
JENNY BUCKETT	KENOSHA, WASHINGTON, OZAUKEE	414-750-2427
CHUCK SALDIVAR	WALWORTH, WAUKESHA	414-750-1682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (GENERAL PHONE # 414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

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

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

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

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

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - STH 20	SHEET 180	E

FILE NAME : J:\projects\d2_10330294\71\SIGN\023201_ps.dgn PLOT DATE : 13-DEC-2019 07:30 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- PROPOSED LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [ ] YEAR OF EXISTING SIGN

STREET NAME SIGN MOVE (BY OTHERS) TOWN

JCT M2-1
COUNTY A M1-5A
COUNTY C M1-5A
J1-1 (2M) 13 14

STOP 350
R1-1 MOVE
DIVIDED HIGHWAY 351
R6-3A MOVE

SPEED LIMIT 45 352 353
R2-1 MOVE

STH 20

269 270 271 272 273 274 275

DO NOT ENTER 12
R5-1(2M)

WRONG WAY 11
R5-1A(2M)

3 4
R4-7(2M)

JCT MB2-1 1
INTERSTATE 41 M1-1 2
INTERSTATE 94 M1-1
J1-1 (2M)

ONE WAY
R6-2L(2M) 5

SPEED LIMIT 45
R2-1(2M) 6 7

ONE WAY 10
R6-2R(2S)

8 9
W3-3(2M)

POST POST POST PIPE FLAG WELL SEPC

SHEET 2 OF 15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - STH 20	SHEET 181 E

FILE NAME : J:\projects\d2_10330294\71\SIGN\023202_ps.dgn PLOT DATE : 13-DEC-2019 07:30 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 40:1

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- PROPOSED LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [ ] YEAR OF EXISTING SIGN

N

STH 20

275 276 277 278 279 280 281

30 PARK & RIDE D4-2R(2M)

28 29 SPEED LIMIT 45 R2-1(2M)

26 Public Works MOVE NOT DOT SIGN SO NOT REPLACE PERMIT SIGN

NO ENGINE BRAKING PROHIBITED MOVE BY OTHERS CITY SIGN BY PERMIT

25 DO NOT ENTER R5-1(2M)

27 ONE WAY R6-2L(2M)

21 22 R4-7(2M)

15 BEGIN LEFT TURN LANE R3-20L(2M)

16 WRONG WAY R5-1A(2M)

17 DO NOT ENTER R5-1(2M)

18 STOP R1-1

19 DIVIDED HIGHWAY R6-3 PRIVATE PROPERTY SIGNS MOVE DO NOT REPLACE

20 ONE WAY R6-2L(2M)

31 BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4 (2M)

23 24 West Frontage Rd NORTH SOUTH D1-60(2M)

TRUCK 604 M4-4

604A R3-1 MOVE

SHEET 3 OF 15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - STH 20	SHEET 182 E

FILE NAME : J:\projects\d2_10330294\71\SIGN\023203_ps.dgn PLOT DATE : 13-DEC-2019 07:30 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- PROPOSED LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [ ] YEAR OF EXISTING SIGN

2

2

N

54 CRASH INVESTIGATION SITE → D4-54R (2M)

53 Sheriffs Patrol Station →

608 Yorkville POPULATION 3,091 I2-3 MOVE

55 R4-7 (2M)

56 R3-2 (2M)

52 DO NOT ENTER R5-1 (2M)

51 WEST 20 J4-1 (2M)

607A TRUCK M4-4

607 R3-2 MOVE

48 NO PARKING ANY TIME R7-1R (2M)

47 SPONSOR MOVE DO NOT REPLACE

FLAGS

46 R4-7 (2M) ON SIGNAL POST

49 BEGIN LEFT TURN LANE R3-20L (2M)

STH 20

57 ONE WAY R6-2R (2M)

58 BEGIN LEFT TURN LANE R3-20L (2M)

61 R3-2 (2M)

59 60 DO NOT ENTER R5-1 (2M)

281 282 283 284 285 286 287

INL

35'

50 BEGIN LEFT TURN LANE R3-20LL (2M)

45 MB3-1 NORTH MB3-4 WEST M1-1 M1-1 MB6-1 MB6-1 J3-2 (2M)

44 DO NOT ENTER R5-1 (2M)

STH 20

POST

612 RIGHT LANE MUST TURN RIGHT R3-7R (2M)

33 DO NOT ENTER R5-1 (2M)

34 R4-7 (2M)

35 R3-2 (2M)

605 R5-2 (2M)

605A M6-1 (2M)

606 R5-2 EXCEPT DELIVERIES MOVE

606A

32 RIGHT TURN ONLY R3-53R (2M)

613 RIGHT LANE MUST TURN RIGHT R3-7R (2M)

36 NO PARKING ANY TIME R7-1D (2M) PUT #36 ON BACK OF #37

37 WRONG WAY R5-1A (2M)

FLAG

38 WEST FRONTAGE ROAD M1-95A (2M)

38A M6-4 (2M)

39 DO NOT ENTER R5-1 (2M)

40

41 STOP R1-1F (3) ON SIGNAL POLE

42 YIELD R1-2 (2M)

43 ONE WAY R6-2L (2M) ON SIGNAL POLE

SHEET 4 OF 15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - STH 20	SHEET E

FILE NAME : J:\projects\d2_10330294\71\SIGN\023204_ps.dgn PLOT DATE : 13-DEC-2019 07:30 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- PROPOSED LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [ ] YEAR OF EXISTING SIGN

WEST FRONTAGE ROAD

STH 20

RAMP NW

103 DIVIDED HIGHWAY R6-3(2M) ON SIGNAL POLE

105 106 STOP R1-1F(3) ON SIGNAL POLE

107 YIELD R1-2(2M)

110 ONE WAY R6-2L(2M)

STREET NAME SIGN BY CITY

LOCATION TO BE DETERMINED

96 97 98 LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50(2M)

357 LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50(2M) ON SIGNAL POLE

104 YIELD R1-2(2M)

94 RIGHT LANE MUST TURN RIGHT R3-7R(3)

95 ALTERNATE NORTH ALTERNATE WEST INTERSTATE 41 INTERSTATE 94 J3-2(2M)

CANTILEVER OVERHEAD SIGN SUPPORT S-51-229 STA 290+38

93 NO PARKING ANY TIME R7-1D(2M)

341 STOP R1-1F(3) ON WOOD POST

342 STOP R1-1F(3) ON SIGNAL POLE

83 ONE WAY R6-2L(2M) ON SIGNAL POLE

84 86 85 87 DO NOT ENTER R5-1(3)

WRONG WAY R5-1A(2S) 3' HEIGHT

102 ONE WAY R6-2L(2M) ON SIGNAL POLE

114 R4-7(2S) ON SIGNAL POLE

113 West Frontage Rd M1-94H ON MAST ARM

108 DO NOT ENTER R5-1(2M) ON SIGNAL POLE

101 STOP R1-1F(3) ON WOOD POST

99 100 STOP R1-1F(3) ON SIGNAL POLE

118 BEGIN LEFT TURN LANE R3-20LL(2M)

92 West Frontage Rd ONLY TYPE I

88 BEGIN LEFT TURN LANE R3-20L(2M) ON SIGNAL POLE

81 MB3-3 SOUTH EAST MB3-2 M1-1 INTERSTATE 41 INTERSTATE 94 M1-1 MB6-1 MB6-1 J3-2(2M) ON SIGNAL POLE

91 MB4-1 ALTERNATE ALTERNATE MB4-1 MB3-3 SOUTH EAST MB3-2 M1-1 INTERSTATE 41 INTERSTATE 94 M1-1 MB6-1 MB6-1 J3-2(2M)

90 West Frontage Rd SOUTH NORTH

355 356 LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50(2M) ON ARM

109 R4-7(2M) ON SIGNAL POLE

111 112 DO NOT ENTER R5-1(2M)

115 R4-7(2M) ON SIGNAL POLE

116 West Frontage Rd M1-94H ON MAST ARM

354 LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50(2M) ON SIGNAL POLE

117 DO NOT ENTER R5-1(2M) ON SIGNAL POLE

70 MB3-1 NORTH WEST MB3-4 M1-1 INTERSTATE 41 INTERSTATE 94 M1-1 MB4-2OL USE LEFT LANE USE LEFT LANE MB4-2OL J2-2(2M)

89 R3-18(2M)

82 R4-7(2M)

78 STOP R1-1F(3) ON WOOD POST

77 DO NOT ENTER R5-1(2M) ON WOOD POST

79 STOP R1-1F(3) ON SIGNAL POLE

62 STREET NAME SIGN BY CITY R4-7(2S) ON SIGNAL POLE

63 DIVIDED HIGHWAY R6-3(2M) ON SIGNAL POLE

64 65 STOP R1-1F(3) ON SIGNAL POLE

66 YIELD R1-2(2M)

67 ONE WAY R6-2L(2M)

S-51-227

68 SOUTH EAST INTERSTATE 41 INTERSTATE 94 ONLY ON CANTILEVER OVERHEAD SIGN SUPPORT TYPE I STA. 289+10

69 WRONG WAY R5-1A(2M) ON UPRIGHT

80 NORTH WEST INTERSTATE 41 INTERSTATE 94 ONLY ON OVERHEAD SIGN SUPPORT TYPE I

71 RIGHT LANE MUST TURN RIGHT R3-7R(3)

72 NO PARKING ANY TIME R7-1D(2M)

73 MB4-1 ALTERNATE ALTERNATE SOUTH EAST MB3-2 M1-1 INTERSTATE 41 INTERSTATE 94 INTERSTATE 41 INTERSTATE 94 M1-1 MB6-1 J3-4(2M)

74 RAMP CLOSED USE ALT ROUTE R11-54F(2M)

76 YIELD R1-2(2M)

75 DO NOT ENTER R5-1(2M)

S-51-228 STA 290+25

287 288 289 290 291 293

2865 2864 4865

SHEET 5 OF 15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - STH 20	SHEET 184 E

LEGEND

EXISTING SIGN MOUNTED ON POST(S)
EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
PROPOSED SIGN MOUNTED ON POST(S)
PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
EXISTING LIGHT OR SIGNAL POLE
PROPOSED LIGHT OR SIGNAL POLE
SIGN BRIDGE
CANTILEVER SIGN BRIDGE
XXXX DENOTES SIGN NUMBER
(X) INDICATES SIGN SIZE
ESTR EXISTING SIGN TO REMAIN
[ ] YEAR OF EXISTING SIGN

153 R3-1(2M)
154 R5-1(2M) ON SIGNAL POLE
152 R7-1D(2M)
148 R6-2L(2M) ON SIGNAL POLE
146 RAMP CLOSED USE ALT ROUTE R11-54F(2M)
158 STOP R1-1F(3) ON SIGNAL POLE
124 Milwaukee D1-1
339 340 ON SIGNAL ARM R3-5OL(2M) R3-5OL(2M)
149 MB3-3 SOUTH EAST MB3-2 M1-1 41 94 M1-1 MB6-1 MB6-1 J3-2(2M) ON SIGNAL POLE
150 R4-7(2M) ON SIGNAL POLE
156 STOP R1-1F(3) ON WOOD POST
123 R4-7(2M)
151 Chicago D1-1(2M)
125 126 STOP R1-1F(3) ON SIGNAL POLE
139 MB3-1 NORTH WEST MB3-4 M1-1 41 94 M1-1 MB3-1 MB6-1 J3-2(2M)
138 R4-7(2M)
142 STOP R1-1F(2M) ON SIGNAL POLE
147 RAMP CLOSED USE ALT ROUTE R11-54F(2M)
145 STOP R1-1F(2M) ON LIGHT POLE
144 DO NOT ENTER R5-1(2M)
141 R3-18(2M)
143 STOP R1-1F(2M) ON WOOD POST
128 DO NOT ENTER R5-1(3)
129 WRONG WAY R5-1A(2S) ON SIGNAL POLE 3' HEIGHT
121 NO PARKING ANY TIME R7-1D(2M)
120 ONE WAY R6-2L(2M) ON SIGNAL POLE
122 MB3-1 NORTH WEST MB3-4 M1-1 41 94 M1-1 MB5-1L MB5-1L J3-2(2M)
119 RAMP CLOSED USE ALT ROUTE R11-54F(2M)
140 DO NOT ENTER R5-1(2M)
127 R3-1(2M)
130 DO NOT ENTER R5-1(3)
131 WRONG WAY R5-1A(2S) ON WOOD POST 3' HEIGHT
136 STOP R1-1F(3) ON WOOD POST
132 ONE WAY R6-2L(2M)
135 STOP R1-1F(3) ON SIGNAL POLE
133 BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4(2M)
134 East Frontage Rd NORTH SOUTH D1-60(2M)
137 STOP R1-1F(3) ON WOOD POST

RAMP NW
RAMP NE
RAMP SW
RAMP SE
STH 20
863NE
862NE
863
864
865SW
862SW
198
198SE
ONLY
NO SIGN
25'
55'
45'

SHEET 6 OF 15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - STH 20	SHEET 185 E

FILE NAME : J:\projects\d2_10330294\71\SIGN\023206_ps.dgn PLOT DATE : 13-DEC-2019 07:30 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- PROPOSED LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [ ] YEAR OF EXISTING SIGN

193 SOUTH EAST INTERSTATE 41 INTERSTATE 94 ONLY

194 SOUTH EAST INTERSTATE 41 INTERSTATE 94 ONLY

362 20 WEST

363 NORTH WEST INTERSTATE 41 INTERSTATE 94 ONLY

FULL SPAN OVERHEAD SIGN SUPPORT S-51-230 TYPE I SIGNS STA 298+00

192 RIGHT LANE MUST TURN RIGHT R3-7R(3)

191 Milwaukee D1-1(2M)

190 WRONG WAY R5-1A(2M)

188 BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4(2M)

187 ONE WAY R6-2L(2M)

186 STOP R1-1F(3)

185 STOP R1-1F(3) ON SIGNAL POLE

184 STOP R1-1F(3)

183 DIVIDED HIGHWAY R6-3A(2M) ON SIGNAL POLE

182 YIELD R1-2(2M)

CITY STREET NAME SIGNS BY OTHERS

EAST FRONTAGE ROAD

ONLY

5860

25'

35'

SIGN

196 MB3-3 SOUTH EAST MB3-2 INTERSTATE 41 INTERSTATE 94 M1-1 MB4-20L USE LEFT LANE USE LEFT LANE MB4-20L J2-2(2M)

197 East Frontage Rd M1-94H ON MAST ARM

181 DO NOT ENTER R5-1(2M) ON SIGNAL POLE

180 ONE WAY R6-2L(2M) ON SIGNAL POLE

179 DO NOT ENTER R5-1(2M)

LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50(2M) ON SIGNAL POLE

195 Chicago D1-1(2M)

STH 20

SIGN

298 299 300 301 302

162 BEGIN LEFT TURN LANE R3-20LL(2M)

169 170 STOP R1-1F(2M) ON SIGNAL POLE

171 DO NOT ENTER R5-1(2M)

LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50(2M) ON SIGNAL POLE

343 172 173 R4-7(2M) ON SIGNAL POLE

359 360 LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50(2M) ON SIGNAL ARM

178 East Frontage Rd M1-94H ON MAST ARM

177 DO NOT ENTER R5-1(2M) ON SIGNAL POLE

5859 303 385 358

3858

45'

168 ONE WAY R6-2L(2M) ON SIGNAL POLE

EAST FRONTAGE ROAD

176 STOP R1-1F(3) ON SIGNAL POLE

175 DIVIDED HIGHWAY R6-3A(2M) ON SIGNAL POLE

159 East Frontage Rd NORTH SOUTH D1-60(2M)

157 NO PARKING ANY TIME R7-1D(2M)

158 WRONG WAY R5-1A(2M)

160 MB4-1 ALTERNATE ALTERNATE MB4-1 MB3-1 NORTH WEST MB3-4 INTERSTATE 41 INTERSTATE 94 M1-1 MB6-1 MB6-1 J3-2(2M)

161 RIGHT LANE MUST TURN RIGHT R3-7R(3)

163 MB4-1 ALTERNATE ALTERNATE MB4-1 MB3-3 SOUTH EAST MB3-2 INTERSTATE 41 INTERSTATE 94 M1-1 MB6-1 MB6-1 J3-2(2M)

164 165 EAST FRONTAGE ROAD M1-95A(2M) M6-4(2M)

166 DO NOT ENTER R5-1(2M)

STREET NAME SIGNS MOVE BY CITY

SIGN

R1-2(2M)

FILLER

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - STH 20	SHEET 186 E

FILE NAME : J:\projects\d2_10330294\71\SIGN\023207_ps.dgn PLOT DATE : 13-DEC-2019 07:30 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

EAST FRONTAGE ROAD

364 EAST Frontage Rd South

365 SOUTH INTERSTATE 41 EAST INTERSTATE 94 WEST 20

366 WEST 20

FULL SPAN OVERHEAD SIGN SUPPORT S-51-259 TYPE I SIGNS STA 308+50

367 NORTH INTERSTATE 41 WEST INTERSTATE 94

368 EAST Frontage Rd North

209 MB3-3 SOUTH EAST MB3-2 M1-1 INTERSTATE 41 INTERSTATE 94 M1-1 MB6-1 MB6-1 J3-2(2M)

210 EAST FRONTAGE ROAD M1-95A

211 M6-4

207 NO PARKING ANY TIME R7-1L(2M)

208 BEGIN LEFT TURN LANE R3-20LL(2M)

206 BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4(2M)

212 213 STOP R1-1F (3) ON SIGNAL POLE

STH 20

304 305 306 307 308 309

SIGN

45'

STH 20

SIGN SIGN

198 YIELD R1-2(2M) ON LIGHT POLE

199 ONE WAY R6-2L(2M)

201 SPONSOR 155-56 MOVE TO STA 316+00

200 344 RIGHT LANE ENDS W9-1R(2M)

202 Sturtevant 2 Hwy 31 5 Racine 9 D1-3(3)

SIGN

203 NO PARKING ANY TIME R7-1R(2M)

SIGN

204 345 W4-2R(2M)

205 EAST 20 J4-1(2M)

FLAG FLAG FLAGS

LEGEND

- SIGN — EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- PROPOSED LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [ ] YEAR OF EXISTING SIGN

SHEET 8 OF 15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - STH 20	SHEET 187	E

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- PROPOSED LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [ ] YEAR OF EXISTING SIGN

227 JCT INTERSTATE 41
228 JCT US STATE 94
J1-2(2M)

214 BEGIN LEFT TURN LANE
R3-20L(2M)

225 226 East Frontage Rd SOUTH NORTH
D1-60(2M)

523 20 M1-6
M6-4
J3-1(2S) LOCATION TBD

521 W3-1(2S) LOCATION TBD

519 STOP R1-1(2M)

520 RIGHT TURN ONLY R3-53R(2S)

522 DO NOT ENTER
R5-1C(2M) TRIMMED

516 W12-1R(2M) 2' HEIGHT

518 STOP R1-1(2M)

524 ONE WAY R6-2R(2M)

517 R4-7(2S)

514 515 DO NOT ENTER
R5-1(2M) MIDDLE OF ISLAND

SIGN

STH 20

310 311 312 313 314 315

525 526 R4-7(2M)

511 R3-2(2M)

512 513 R3-2(2M)

507 ONE WAY R6-2(2M)

STH 20

SIGN

SIGN

215 216 SPEED LIMIT 45
R2-1(2M)

503 RIGHT LANE MUST TURN RIGHT
R3-7R(2M)

S51-260 OVERHEAD SIGN SUPPORT FULL SPAN TYPE I SIGNS STA. 311+25

217 Mount Pleasant POPULATION 26,197
12-3

218 RIDESHARE INFO CALL 1-800-455-POOL
D12-2A(2M)

504 RIGHT LANE MUST TURN RIGHT
R3-7R(2M)

219 NO ENGINE BRAKING EXCEPT IN EMERGENCY
R10-64
MOVE PERMIT WITH VILLAGE DO NOT REPLACE

509 DO NOT ENTER
R5-1(2M)

GALAXY DR.

508 ONE WAY R6-2L(2M)

506 STOP R1-1(2M)

601 RIGHT TURN ONLY
R3-53R(2S)

501 SOUTH Red Cloud Dr ONLY

502 SOUTH Galaxy Dr ONLY

SHEET 9 OF 15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - STH 20	SHEET 188	E

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

PROPOSED LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

XXXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

[ ] REAR OF EXISTING SIGN

542 RIGHT LANE MUST TURN RIGHT R3-7R(2M)

596 NORTH Red Cloud Dr D1-61

235 236 W3-3(2M)

539 540 WEST M3-4 20 M1-6 J4-1(2M)

234 RIDESHARE INFO CALL 1-800-455-POOL D12-2A(2M)

535 RIGHT LANE MUST TURN RIGHT R3-7R(2M)

536 537 SPEED LIMIT 45 R2-1(2M)

541 BEGIN LEFT TURN LANE R3-20LL(2M)

538 BEGIN LEFT TURN LANE R3-20L(2M)

SIGN

STH 20

316 317 318 319 320 321

543 BEGIN LEFT TURN LANE R3-20L(2M)

STH 20

229 I55-56 MOVE SPONSOR

529 BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4(2M)

530 SOUTH Red Cloud Dr ONLY

S51-261 STA. 318+25 OVERHEAD SIGN SUPPORT CANTILEVER

527 528 W3-3(2M) 16"X16" TEMP FLAGS

531 BEGIN LEFT TURN LANE R3-20LL(2M)

602 WRONG WAY R5-1A(2M)

534 STOP R1-1F(2M) ON SIGNAL POLE

532 533 STOP R1-1F(2M) ON SIGNAL POLE

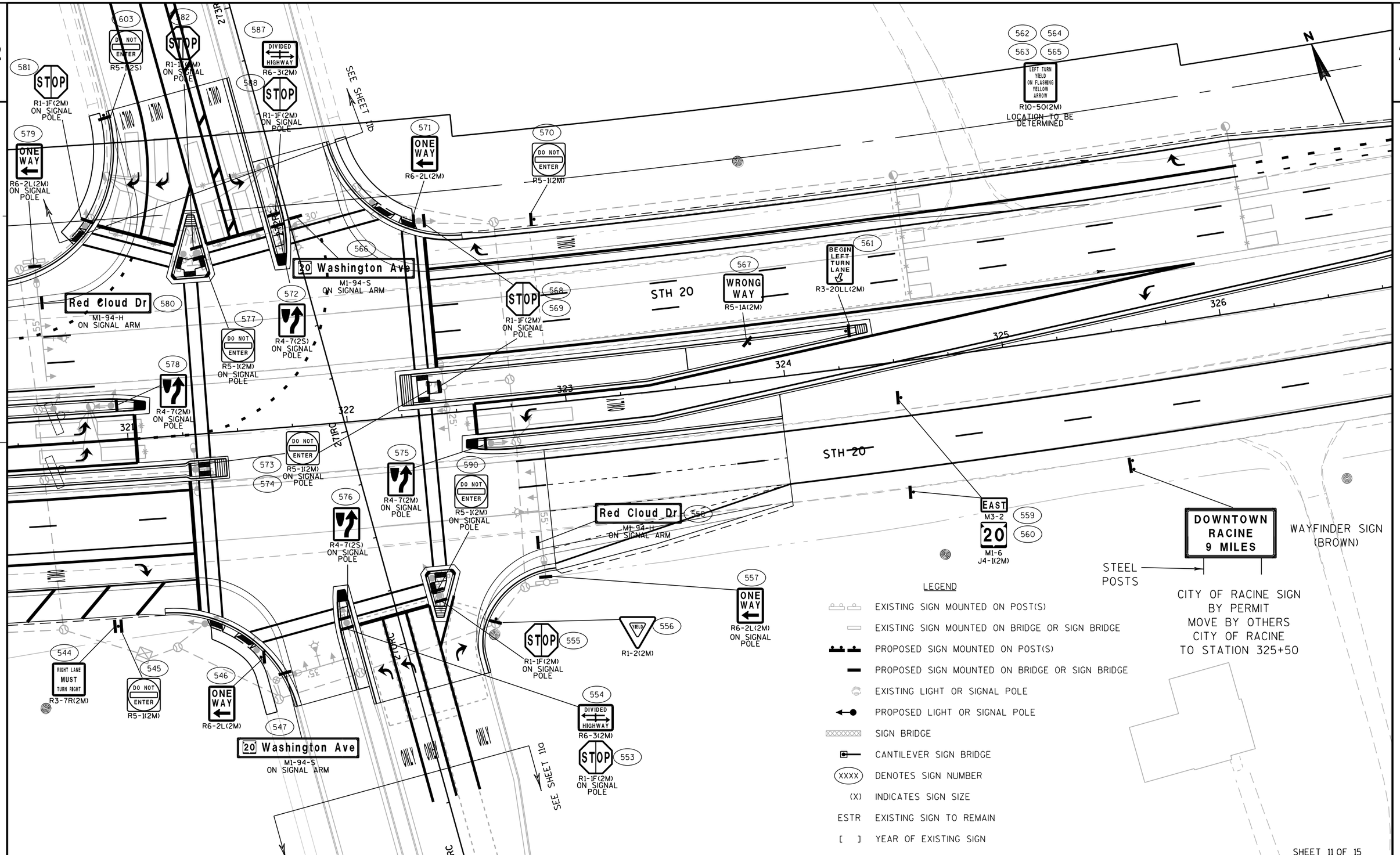
SIGN

SHEET 10 OF 15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - STH 20	SHEET 189 E

FILE NAME : J:\projects\d2_10330294\71\SIGN\023210_ps.dgn PLOT DATE : 13-DEC-2019 07:30 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42



SHEET 11 OF 15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - STH 20	SHEET 190 E

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- PROPOSED LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [ ] YEAR OF EXISTING SIGN

N

RED CLOUD DR

269RC

SEE SHEET 11

549
600
20
M1-6
M6-4
J3-1(2S)

552
548
ONLY ONLY ONLY ONLY
R3-8WW(2S)
70"X30"

550
551
W3-3(2S)

SHEET 11a OF 15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - STH 20	SHEET 191	E

FILE NAME : J:\projects\d2_10330294\71\SIGN\023211a_ps.dgn PLOT DATE : 13-DEC-2019 07:30 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- PROPOSED LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [ ] YEAR OF EXISTING SIGN

N

SEE SHEET 11

ONLY

ONLY

ONLY

273RC

589
598
ONLY ONLY ONLY ONLY
R3-8WW(2S)
70"X30"

585
586
W3-3(2S)

RED CLOUD DR

599
584
20
M1-6
M6-4
J3-1(2S)

SHEET 11b OF 15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - STH 20	SHEET 192	E

2

2

591 592

Red Cloud Dr
NEXT SIGNAL

D1-65

241

ONE WAY

R6-2L(2M)

W3-3(2M)
16"X16"
TEMP. FLAGS

594

595

232

233

SPEED LIMIT 45

R2-1(2M)

242

243

NORTH LIMIT 45

W3-5(2M)
STA. 336+00

N

593

BEGIN LEFT TURN LANE

R3-20L(2M)

STH 20

327

328

329

330

331

332

POST

POST

239

240

R4-7(2M)

STH 20

238

DO NOT ENTER

R5-1(2M)

230

231

SPEED LIMIT 55

R2-1(2M)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- PROPOSED LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [ ] YEAR OF EXISTING SIGN

SHEET 12 OF 15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - STH 20	SHEET 193	E

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- PROPOSED LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [ ] YEAR OF EXISTING SIGN

N

268 Racine / Mount Pleasant / Waterford / Sheriffs Substation

SHEET 13A

281 W4-2R(2S)

270 NO PARKING ON RAMP (EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES) R7-64(2S)

269 PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED R5-57(5)

271 TO WEST FRONTAGE ROAD J3-1(2S)

267 [2017] Frank Lloyd Wright Design Buildings Wingspread SC Johnson

D1-3 MOVE (2016 SIGN)

OVERHEAD SIGN SUPPORT S-51-250 STA 867+00

276 275 274 273 ONLY R3-5L(2S) R3-6L(2S) R3-5R(2S) R3-5R(2S)

256 TO WEST FRONTAGE ROAD M4-5(2S) M1-95A(2S) M6-1(2S) J3-1(2S)

IH-94

258 TO EAST EAST FRONTAGE ROAD EAST COUNTY 20 WEST COUNTY 20 J3-3(2S)

257 Amtrak Station

Gateway Tech College

347 MOVE TO HERE

GAS MOVE BY WISCONSIN LOGOS IF NECESSARY 608-579-1570

609 MOVE Yorkville

280 TOURIST INFORMATION MOVE [2016]

279 D4-55L(2S)

OVERHEAD SIGN SUPPORT S-51-249 STA 858+00

277 278 WRONG WAY R5-1A(3) ON UPRIGHT

272 PARK & RIDE D4-2L(2S)

251 Sheriffs Substation MOVE

259 260 WRONG WAY R5-1A(3) ON UPRIGHT

266 265 264 ONLY R3-5L(2S) R3-6L(2S) R3-5R(2S)

MATCHLINE 868+00

LODGING ESTR WISCONSIN BUSINESS LOGO SIGNS

244 W3-3(2S)

245 NO PARKING ON RAMP (EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES) R7-64(2S)

FOOD MOVE BY OTHERS WISCONSIN BUSINESS LOGOS 608-579-1570

248 Amtrak Station

GAS MOVE BY OTHERS 608-579-1570

250 TO EAST WEST EAST EAST FRONTAGE ROAD COUNTY 20 COUNTY 20 J3-3(2S)

STH 20

252 PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED R5-57(2S)

253 NO PARKING ON RAMP (EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES) R7-64(5)

246 WEST 20 EAST 20 ALTERNATE NORTH 41 ALTERNATE WEST 94 J2-4(2S)

247 Waterford / Racine / Mount Pleasant / Gateway Tech College 346 MOVE

249 Frank Lloyd Wright Design Buildings Wingspread SC Johnson MOVE [2017]

SHEET 13A

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - RAMPS	SHEET 194 E

FILE NAME : J:\projects\d2_10330294\71\SIGN\023213_ps.dgn PLOT DATE : 13-DEC-2019 07:30 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 100:1 WISDOT/CADDS SHEET 42

2

SHEET 13

PARK RIDE
D4-2R(2S)
MOVE
262

255
[2016]
TOURIST INFORMATION
0.2 MILE
MOVE

616
MOVE
CIS

347
Gateway Tech College
D1-1
MOVE TO STATION 866+00

615
EAST 20 WEST 20 ALTERNATE EAST 94 ALTERNATE SOUTH 41
J2-3
MOVE

FOOD
MOVE BY WISC BUSINESS LOGOS, CALL 1-608 -579-1570

614
W3-3
MOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- PROPOSED LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [ ] YEAR OF EXISTING SIGN

N

4880
4882
SIGN

868NW 870NW 872NW 874NW 876NW 878NW 880NW 882NW

IH-94 SB

868 870 872 874 876 878 880 882

IH-94 NB

MATCHLINE 868+00

868NE 870NE 872NE 874NE 876NE 878NE 880NE 882NE

5878 5880 5882 5884 5886

254
W4-2R(2S)

LODGING
MOVE BY WISC BUSINESS LOGOS, CALL 1-608 -579-1570

261
NO PARKING ON RAMP
EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES
R7-64
MOVE

617
MOVE
EXIT 333
E5-1A

617A
W5-54

617B
W5-54

SHEET 13

SHEET 13A OF 15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - RAMPS	SHEET 195 E

FILE NAME : J:\projects\d2_10330294\71\SIGN\023213A_ps.dgn PLOT DATE : 13-DEC-2019 07:30 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- PROPOSED LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [ ] YEAR OF EXISTING SIGN

295 DO NOT ENTER R5-1(2S)
297 WEST FRONTAGE ROAD M1-95A
296 NO PARKING ANY TIME R7-1D(2S)
294 SPEED LIMIT 35 R2-1(2S)
293 TO 20 TO 41 94 J3-3(2S)
292 ONLY ONLY ONLY R3-8W(2S)
W3-3(2S) ESTR
CENTER LANE ONLY R3-9B(2S) ESTR
JCT 20 J1-1(2S) ESTR
298 CENTER LANE ONLY R3-9B(2S)
299 SPEED LIMIT 35 R2-1(2S)
WEST FRONTAGE ROAD
2860
2856
2862
2864
4866
4870
4868
STH 20
2862
282 JCT 20 J1-1(2S)
283 W3-3(2S)
284A END R3-9D(2S)
284 CENTER LANE ONLY R3-9B(2S)
285 TO 20 TO 41 94 J3-3(2S)
286 R4-7(2S)
287 ONLY ONLY ONLY R3-8W(2S)
288 SPEED LIMIT 35 R2-1(2S)
289 DO NOT ENTER R5-1(2S)
290 R4-7(2S)
291 CENTER LANE ONLY R3-9B(2S)
611 NO PARKING ANY TIME R7-1D(2S)
EAST FRONTAGE ROAD M1-95A ESTR
TRUCK M4-4 610A
610 R3-2 MOVE
SIGN
CANOPY
FILLER CAP
SCALE

SHEET 14 OF 15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - WEST FRONTAGE ROAD	SHEET 196 E

FILE NAME : J:\projects\d2_10330294\71\SIGN\023214_ps.dgn PLOT DATE : 13-DEC-2019 07:30 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- PROPOSED LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN
- [ ] YEAR OF EXISTING SIGN

N

EAST FRONTAGE ROAD

STH 20

3850 3852 3854 3856 3858 5860 5862 5864

300 W3-3(2S)
301 J1-1(2S)
302 R4-7(2S)
303 WRONG WAY R5-1A(2S)
304 TO 20 TO 41 94 J3-3(2S)
306 ONLY ONLY ONLY R3-8GGG
307 R3-2(2S)
310 R3-2(2S)
311 ONE WAY R6-2R(2S)
312 DO NOT ENTER R5-1(2S)
313
314 R4-7(2S)
315 EAST FRONTAGE ROAD M1-95A(2S)
316 MOVE
317 WRONG WAY R5-1A(2S)
318 W6-2(2S)
319 DO NOT ENTER R5-1(2S)
320
321 W4-2R(2S)
322 WRONG WAY R5-1A(2S)
323 NO PARKING ANY TIME R7-1D(2S)
324 SPEED LIMIT 35 R2-1(2S)
325 BEGIN LEFT TURN LANE R3-20L(2S)
326 SPEED LIMIT 35 R2-1(2S)
327
328 W1-2L(2S)
329 DO NOT ENTER R5-1(2S)
330 ONE WAY R6-2R(2S)
331 R3-2(2S)
332 R4-7(2S)
333 W4-2R(2S)
334 EAST FRONTAGE ROAD M1-95A(2S)
335 DO NOT ENTER R5-1(2S)
336 RIGHT LANE MUST TURN RIGHT R3-7R(2S)
337 ONLY ONLY ONLY ONLY R3-8V(2S)
338 TO 20 TO 41 94 J3-3(2S)

DO NOT ENTER R5-1 ESTR
STOP R1-1 ESTR
STOP R1-1 PRIVATE PROPERTY SIGN MOVE DO NOT REPLACE
STOP R1-1 CROSS TRAFFIC DOES NOT STOP W4-4P
PRIVATE PROPERTY SIGN MOVE IF NECESSARY DO NOT REPLACE
W3-3 ESTR

SHEET 15 OF 15

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING - EAST FRONTAGE ROAD	SHEET 197 E

FILE NAME : J:\projects\d2_10330294\71\SIGN\023215_ps.dgn PLOT DATE : 13-DEC-2019 07:30 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

LEGEND

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

N

826 DO NOT ENTER R5-1(2S)

827 REMOVE YIELD R1-2(2M)

828 ONE WAY R6-2L(2M) ON SIGNAL POLE

829 Renaissance Blvd M1-9S ON SIGNAL ARM

831 LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50L(2M) UP HIGH ON SIGNAL POLE

830 R4-7(2M) ON SIGNAL POLE

824 R4-7(2S) ON SIGNAL POLE

832 833 STOP R1-1F(3) ON SIGNAL POLE

825 LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50L(2M) ON SIGNAL ARM

823 20 Washington Ave M1-9S ON SIGNAL ARM

820 STOP R1-1F(3) ON SIGNAL POLE

822 YIELD R1-2(2M)

821 DO NOT ENTER R5-1(2M)

834 ONE WAY R6-2L(2S) ON SIGNAL POLE

819 STOP R1-1F(3) ON SIGNAL POLE

816 R4-7(2M) ON SIGNAL POLE

818 R3-4(2M) ON LIGHT POLE

817 LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50L(2M) ON SIGNAL ARM

814 NO TURN ON RED FROM LEFT LANE

805 R4-7(2S) ON SIGNAL POLE

812 Renaissance Blvd M1-9S ON SIGNAL ARM

813 ONE WAY R6-2L(2M) ON SIGNAL POLE

806 803 STOP R1-1F(3) ON SIGNAL POLE

807 ONE WAY R6-2L(2S) ON SIGNAL POLE

809 LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50L(2M) ON SIGNAL ARM

808 815 STOP R1-1F(3) ON SIGNAL POLE

810 STOP R1-1F(3) ON SIGNAL POLE

811 DO NOT ENTER R5-1(2S)

801 DO NOT ENTER R5-1(2M)

802 STOP R1-1(3)

804 20 Washington Ave M1-9S ON SIGNAL ARM

RENAISSANCE BLVD — CTH H/RENAISSANCE BLVD — STH 20

213'WB'+00 214'WB'+00 215'WB'+00 216'WB'+00 217'WB'+00

213'EB'+00 214'EB'+00 215'EB'+00 216'EB'+00 217'EB'+00

42'RN'+00 41'RN'+00 15'RS'+00

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

SIGNING COORDINATOR COUNTY(S) PHONE#

- DENNIS NEWTON MILWAUKEE 414-750-0257
- DENNIS NEWTON RACINE 414-750-0257
- JENNY BUCKETT KENOSHA, WASHINGTON, OZAUKEE 414-750-2427
- CHUCK SALDIVAR WALWORTH, WAUKESHA 414-750-1682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

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

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

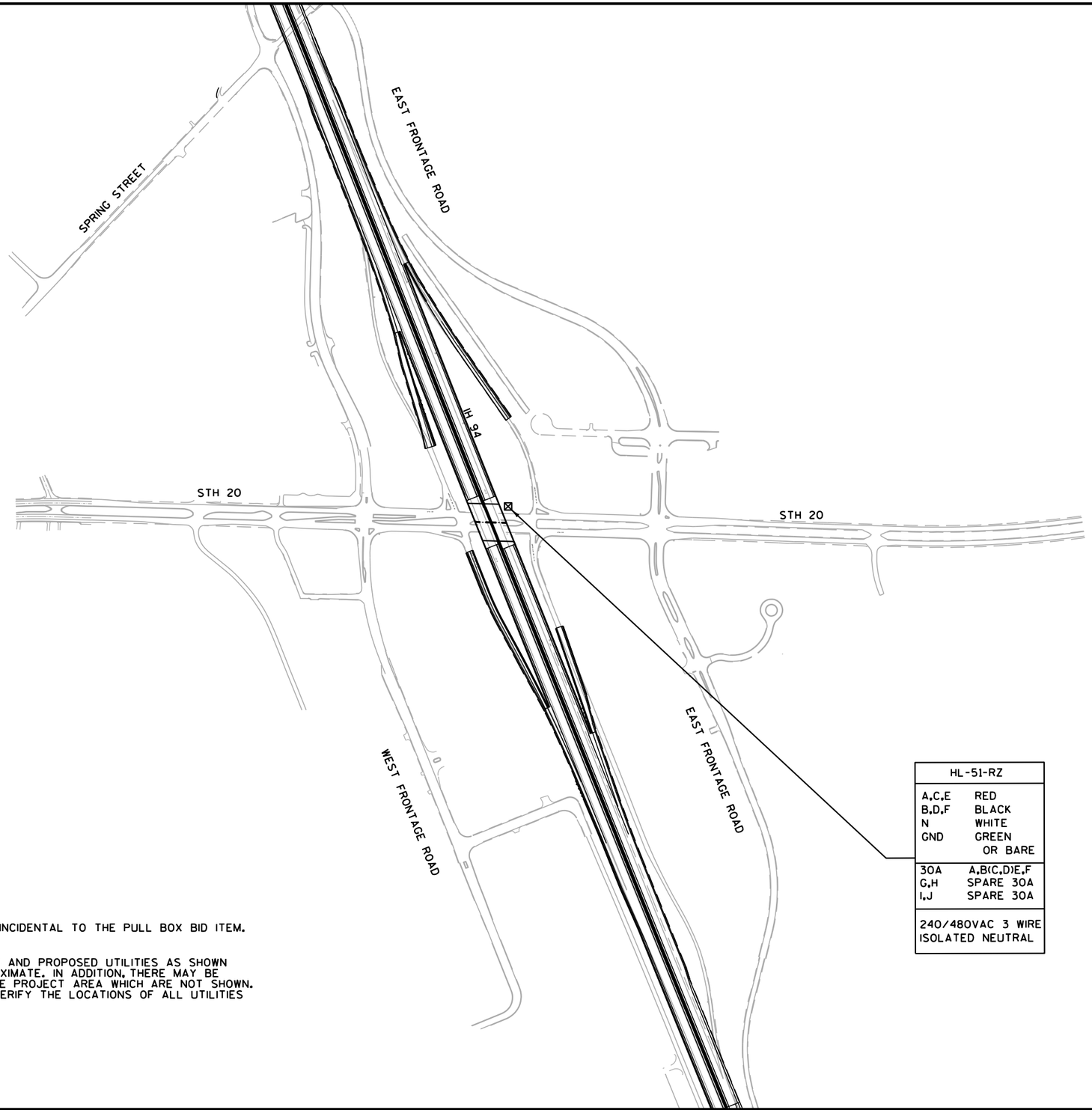
STREET NAME SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL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

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

SHEET 1 OF 1

PROJECT NO: 1033-02-71/76	HWY: STH 20 & CTH H	COUNTY: RACINE	PERMANENT SIGNING - CTH H/RENAISSANCE BLVD	SHEET 198	E

2



HL-51-RZ	
A,C,E	RED
B,D,F	BLACK
N	WHITE
GND	GREEN OR BARE
30A	A,B(C,D)E,F
G,H	SPARE 30A
I,J	SPARE 30A
240/480VAC 3 WIRE ISOLATED NEUTRAL	

NOTES:

1. WIRE IN THE PULL BOX IS INCIDENTAL TO THE PULL BOX BID ITEM.

2. THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

SHEET 1 OF 10

2

GENERAL NOTES:

HIGHWAY LIGHTING SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 652 TO 657 AND 659 EXCEPT:

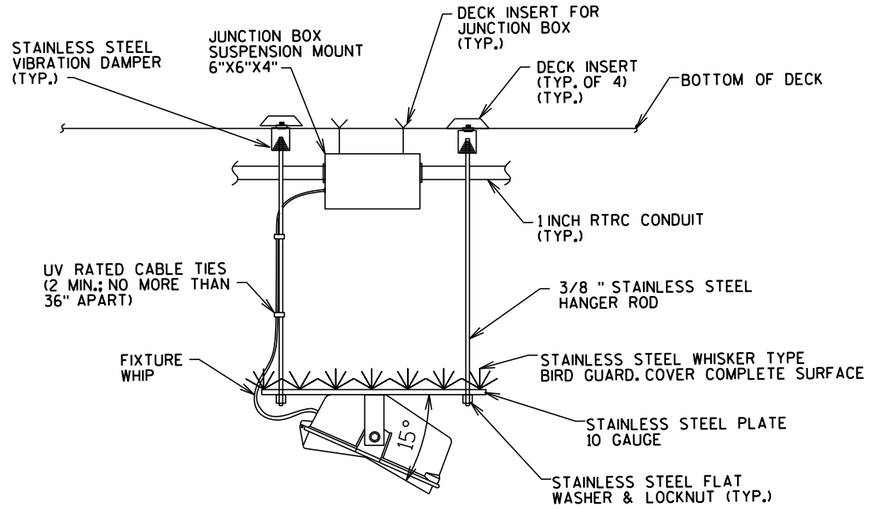
1. DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THESE DRAWINGS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.
2. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING OR PROPOSED UTILITIES.
3. LOCATIONS OF THE PVC CONDUITS ARE INDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. HOWEVER, INSTALLATION WILL REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. UNDER THE APPROVAL OF THE ENGINEER, APPROPRIATE ADJUSTMENT OF CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED TO ILLUSTRATE AS BUILT CONDITIONS.
4. THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.
5. ALL OPEN AND UNTERMINATED CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION.
6. BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.
7. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.
8. PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT THAT CAN BE EASILY REMOVED. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.
9. CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX, JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.
10. PULL ROPE ($\frac{3}{8}$-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.
11. CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS (PDF FORMAT) FOR ALL THE WORK BEING DONE.
12. INSTALLATION OF LATERAL UNDERGROUND CONDUIT UNDER PAVEMENT SHALL BE INSTALLED MINIMUM 30 INCHES BELOW PROPOSED GRADE. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ROADWAY CONSTRUCTION FOR CONDUIT LATERALS INSTALLATION.
13. PITCH ALL CONDUITS TOWARD PULL BOXES. INSTALL A 2" DRAIN TO STORM SEWER OR DRAIN SUMP AS REQUIRED FOR DRAINAGE. THE 2" DRAIN DUCT OR SUMP IS INCIDENTAL TO THE PULL BOX BID ITEM AND IS NOT SHOWN.
14. HAND DIGGING MAY BE REQUIRED FOR LOCATIONS ADJACENT TO EXISTING GAS AND POWER LINES. HAND EXCAVATION SHOULD BE ANTICIPATED AND WILL BE CONSIDERED INCIDENTAL TO THE CONCRETE BASES BID ITEM. COORDINATE ALL WORK NEAR GAS AND ELECTRICAL LINES WITH WE ENERGIES.
15. UNDERGROUND WIRE & CONDUIT SHOWN ON REMOVAL PLANS FOR REMOVAL SHALL BE ABANDONED IN PLACE UNLESS DIRECTED BY THE ENGINEER. CONTRACTOR MAY CHOOSE TO REMOVE CONDUCTOR AT THEIR OWN EXPENSE.
16. PROVIDE MINIMUM CABLE SLACK AS MENTIONED BELOW:

PULL BOXES:	10-FT
EMBEDDED JUCTION BOXES:	3-FT
DISTRIBUTION CENTER/LOAD CENTER:	10-FT
POLE BASES:	5-FT IN AND 5-FT OUT

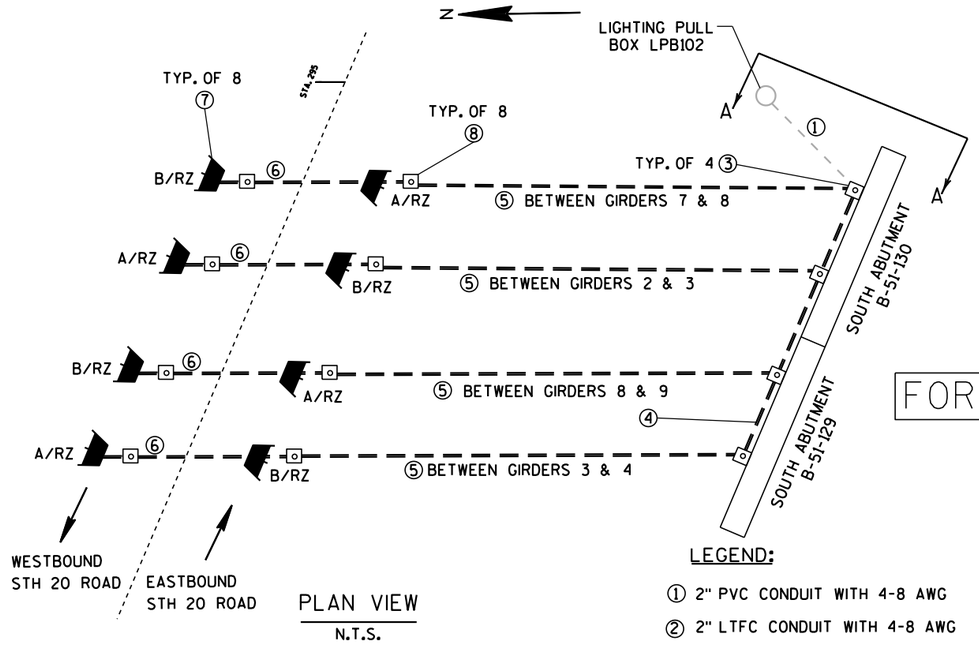
LIGHTING PLAN DESIGNED BY
WISDOT SE REGION 5/19
DATE

PROJECT NO: 1033-02-71	HWY: IH 94	COUNTY: RACINE	PLAN: LIGHTING PLAN - DETAIL	SHEET 200	E

FILE NAME : J:\projects\d2_10330294\71\LTG\PD.DGN PLOT DATE : 23-MAY-2019 10:57 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 200:1
WISDOT/CADDS SHEET 42



TYP. LUMINAIRE INSTALLATION



PLAN VIEW

N.T.S.

FOR INFORMATION ONLY

LEGEND:

① 2" PVC CONDUIT WITH 4-8 AWG

② 2" LTFC CONDUIT WITH 4-8 AWG

③ JUNCTION BOX (SEE SPV's) - SURFACE MOUNTED TO DIAPHRAGM BETWEEN GIRDERS

④ 1" RTRC ALONG ABUTMENT WITH 4-10 AWG - ATTACHED TO ABUTMENT

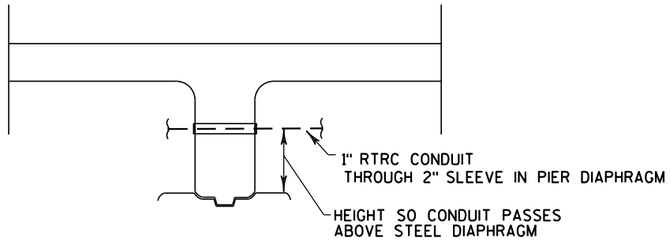
⑤ 1" RTRC IN BEAM SPACE WITH 4-10 AWG

⑥ 1" RTRC IN BEAM SPACE WITH 3-10 AWG

⑦ LUMINAIRES UNDERDECK LED (SEE SPV's)

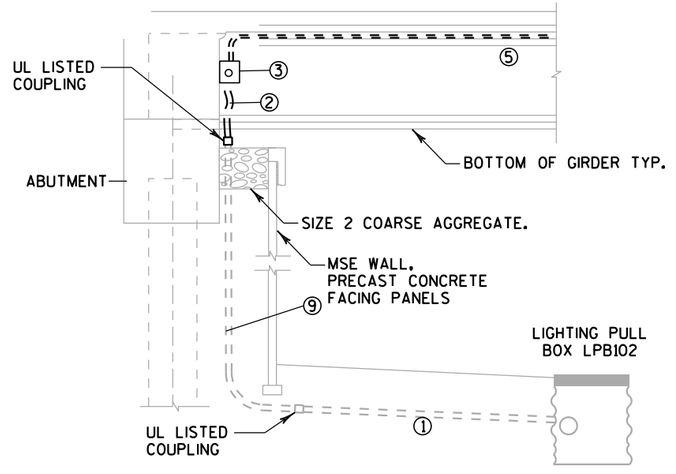
⑧ SUSPENDED JUNCTION BOX (SEE SPV's)

⑨ 2" PVC CONDUIT INSTALLED BEHIND MSE WALL INCIDENTAL TO STRUCTURE PAY ITEMS.



CENTER PIER DIAPHRAGM DETAIL

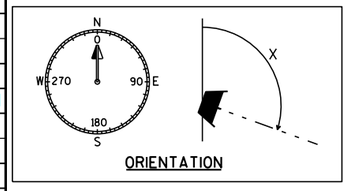
N.T.S.



SECTION A-A SOUTH ABUTMENT

N.T.S.

LUMINAIRE LOCATIONS				
STRUCTURE B-51-129				
ROADWAY UNDER	STATION	OFFSET	BETWEEN GIRDER	ORIENTATION
WB STH 20	293+42.5	20LT	3 & 4	23 °
WB STH 20	293+83.3	20LT	8 & 9	23 °
EB STH 20	293+57.2	14RT	3 & 4	203 °
EB STH 20	293+98.1	14RT	8 & 9	203 °
D				
STRUCTURE B-51-130				
ROADWAY UNDER	STATION	OFFSET	BETWEEN GIRDER	ORIENTATION
WB STH 20	294+19.9	20LT	2 & 3	23 °
WB STH 20	294+60.7	20LT	7 & 8	23 °
EB STH 20	294+34.6	14RT	2 & 3	203 °
EB STH 20	294+75.5	14RT	7 & 8	203 °



ORIENTATION

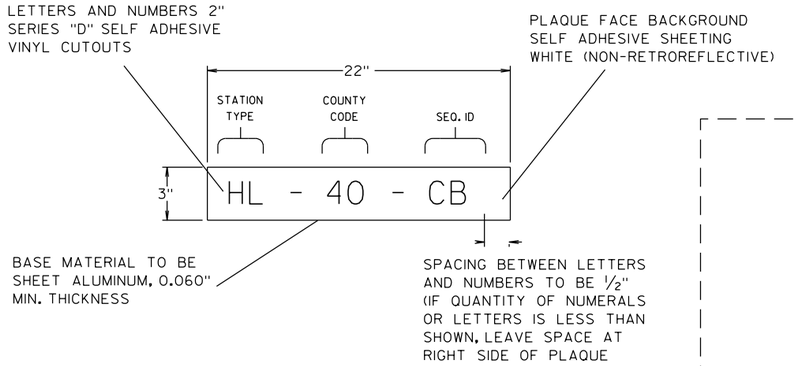
NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.
2. STRUCTURE DIMENSIONS SHOWN ARE FOR INFORMATION ONLY. THE STRUCTURE DRAWINGS GOVERN.
3. CENTER LUMINAIRES, CONDUIT, JUNCTION BOXES ETC., IN THE SPACES BETWEEN GIRDERS (LONGITUDINALLY). CENTER LUMINAIRES LATERALLY OVER THE LEFT TURN LANES.
4. TYPE RTRC CONDUIT TO PASS ABOVE STEEL DIAPHRAGMS.
5. INSTALL LUMINAIRES SUCH THAT THE LOWEST PART IS ONE INCH ABOVE THE BOTTOM OF THE GIRDERS.
6. APPLY LOCKING COMPOUND TO THREADED PARTS IN HANGER ASSEMBLIES.
7. GIRDER SLEEVES SHALL BE FORMED. DO NOT DRILL, EITHER IN FACTORY OR FIELD. INCIDENTAL TO STRUCTURE PAY ITEMS.
8. ALL LIGHTING WORK SHOWN HERE FOR UNDERDECK LIGHTING WILL BE PAID UNDER PAY ITEM "UNDERDECK LIGHTING SPECIAL STH 20 ROAD" UNLESS NOTED OTHERWISE.

UNDERDECK LIGHTING SPECIAL - STH 20 UNDER IH-94

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 SPECIAL PROVISIONS.

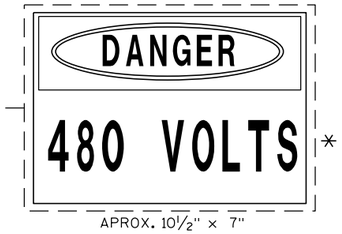


DISTRIBUTION CENTER IDENTIFICATION PLAQUE

CHAMBERS

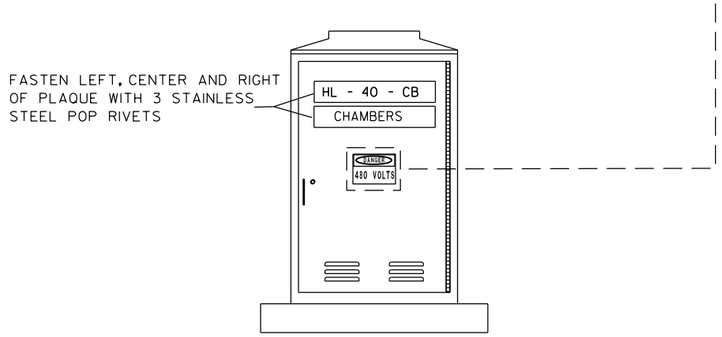
MNEMONIC
(SEE MISC. QTYS.)
(NO. OF CHARACTERS VARIES THIRD PLAQUE MAY BE NECESSARY)

TWO REQUIRED CABINET AND METER PEDESTALS (PAID AS PLAQUES SEQUENCE IDENTIFICATIONS)



*SOME LOCATIONS WILL BE 240 VOLTS

FOR INFORMATION ONLY



DISTRIBUTION CENTER IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENTS
(TYPICAL ALL CONTROL CABINETS)

2

2

SALVAGE

HL-51-RZ	
A	RED
B	BLACK
N	WHITE
GND	GREEN OR BARE
30A	A,B
C,D	SPARE 30A
E,F	SPARE 30A

240/480VAC 3 WIRE ISOLATED NEUTRAL

SALVAGE
294+95, 80' LT
HL-51-RZ
(DOOR FACING EAST)

295+15, 80' LT
LPB101

295+40, 70' RT
LPB102

IH 94 SB OFF RAMP

IH 94 NB ON RAMP

IH 94 SB ON RAMP

IH 94 NB OFF RAMP

IH 94

STH 20

FLAG

SIGN

LEGEND

- DISTRIBUTION CENTER
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- CONDUIT STUBOUT
- PULLBOX 24" x 36"
- C.I.M. CENTER IN MEDIAN
- UDL (UNDER DECK LUMINAIRE)
- JUNCTION BOX

SHEET 5 OF 10

PROJECT NO: 1033-02-71	HWY: IH 94	COUNTY: RACINE	LIGHTING REMOVAL PLAN	SHEET 203	E

FILE NAME : J:\projects\d2_10330294\71\LTG\023501_LP.DGN PLOT DATE : 23-MAY-2019 12:34 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 50:1

WISDOT/CADDS SHEET 42

2

N

SALVAGE

HL-51-RZ	
A	RED
B	BLACK
N	WHITE
GND	GREEN OR BARE
30A	A,B
C,D	SPARE 30A
E,F	SPARE 30A
240/480VAC 3 WIRE ISOLATED NEUTRAL	

STH 20

IH 94 SB OFF RAMP

IH 94

IH 94 NB ON RAMP

SALVAGE
294+95, 80' LT
HL-51-RZ
(DOOR FACING EAST)

3" C
4#8 AWG

295+15, 80'LT
LPB101

3" C SPECIAL
4#8 AWG

3#10 AWG

3#10 AWG

4#10 AWG

4#10 AWG

295+40, 70' RT
LPB102

4#8 AWG

4#8 AWG

STH 20

IH 94 SB ON RAMP

IH 94

IH 94 NB OFF RAMP

LEGEND

- DISTRIBUTION CENTER
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- CONDUIT STUBOUT
- PULLBOX 24" x 36"
- C.I.M. CENTER IN MEDIAN
- UDL (UNDER DECK LUMINAIRE)
- JUNCTION BOX

SHEET 6 OF 10

PROJECT NO: 1033-02-71	HWY: IH 94	COUNTY: RACINE	LIGHTING REMOVAL PLAN - SCHEMATIC	SHEET 204 E

FILE NAME : J:\projects\d2_10330294\71\LTG\023501_SCEMATIC_LP.DGN PLOT DATE : 23-MAY-2019 12:35 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 50:1

LEGEND

- ⊠ DISTRIBUTION CENTER
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- ⇉ CONDUIT STUBOUT
- ◐ PULLBOX 24" x 36"
- C.I.M. CENTER IN MEDIAN
- UDL (UNDER DECK LUMINAIRE)
- ▭ JUNCTION BOX

STATION — OFFSET

100+00.00, (100.00RT)

LED C A(T) 4 ANS1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

N

IH 94

STA. 287+6.08, 139.14' LT
LPB22

285+11.45, 75.74 LT
LPB21

286+83.69, 103.26' LT
LED C 7(T) 8 FRZ3

3" CONDUIT

288+11.21, 138.95' LT
LPB23

288+38.76, 104.85' LT
LED C 7(T) 8 FRZ2

290+88.86, 248.77' LT
LPB24

290+94.94, 237.19' LT
LED C 7(T) 8 FRZ1

3" CONDUIT
291+60.19, 271.89' LT
LPB25

292+69.48, 105.72' LT
LPB26

285+17.25, C.I.M.
LED C 7(T) 10 FRZ4/FRZS

3" CONDUIT

289+49.67, C.I.M.
LED C 7(T) 10 DRZ4/DRZS

290+58.76, C.I.M.
LED C 7(T) 10 DRZ2/DRZ3

STH 20

286+72.80, 98.35' RT
LED C 7(T) 8 DRZ7

286+98.21, 155.36' RT
LPB20

3" CONDUIT

289+51.13, 94.82' RT
LPB18

3" CONDUIT

290+61.24, 97.15' RT
LPB17

EMPTY

288+27.03, 123.24' RT
LED C 7(T) 8 DRZ6

288+17.66, 156.76' RT
LPB19

292+33.33, 111.59' RT
LED C 7(T) 8 DRZ1

292+65.98, 145.65' RT
LPB16

294+36.66, 76.73' RT
LPB14

3-8AWG

293+15.6, 127.61' RT
LPB15

3" CONDUIT

SEWAGE TREATMENT PLANT

CANOPY

FILLER CAPS

SIGN

SHEET 7 OF 10

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	PROPOSED LIGHTING PLAN	SHEET 205 E

FILE NAME : J:\projects\d2_10330294\71\LTG\023601_LP - Copy.dgn PLOT DATE : 23-JUL-2019 10:17 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

LEGEND

- DISTRIBUTION CENTER
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- CONDUIT STUBOUT
- PULLBOX 24" x 36"
- C.I.M. CENTER IN MEDIAN
- UDL (UNDER DECK LUMINAIRE)
- JUNCTION BOX

STATION — OFFSET
100+00.00, (100.00RT)
LED C A(T) 4 ANS1
- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

N

IH 94

STH 20

280 282 284 286 288 290 292 294

2862 2864 4866 8484

86SW 86NW 98

285+38.80, 75.74 LT
LPB21

STA. 287+6.08, 139.14' LT
LPB22

286+83.69, 103.26' LT
LED C 7(T) 8 FRZ3

3" CONDUIT

285+17.25, C.I.M.
LED C 7(T) 10 FRZ4/FRZS

288+11.21, 138.95' LT
LPB23

288+38.76, 104.85' LT
LED C 7(T) 8 FRZ2

290+88.86, 248.77' LT
LPB24

290+94.94, 237.19' LT
LED C 7(T) 8 FRZ1

3" CONDUIT
291+60.19, 271.89' LT
LPB25

292+69.46, 105.72' LT
LPB26

289+49.67, C.I.M.
LED C 7(T) 10 DRZ4/DRZS

290+58.76, C.I.M.
LED C 7(T) 10 DRZ2/DRZ3

289+51.13, 94.82' RT
LPB18

3" CONDUIT

290+61.24, 97.15' RT
LPB17

EMPTY

294+36.66, 76.73' RT
LPB14

3-8AWG

293+15.6, 127.61' RT
LPB15

3" CONDUIT

286+72.80, 98.35' RT
LED C 7(T) 8 DRZ7

286+98.21, 155.36' RT
LPB20

3" CONDUIT

288+27.03, 123.24' RT
LED C 7(T) 8 DRZ6

288+17.66, 156.76' RT
LPB19

292+33.33, 111.59' RT
LED C 7(T) 8 DRZ1

292+65.98, 145.65' RT
LPB16

SHEET 8 OF 10

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	PROPOSED LIGHTING SCEMATIC	SHEET E

FILE NAME : J:\projects\d2_10330294\71\LTG\023601_LP-SCEMATIC_LP.dgn PLOT DATE : 23-JUL-2019 10:17 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 100:1
WISDOT/CADDS SHEET 42

2

LEGEND

- DISTRIBUTION CENTER
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- CONDUIT STUBOUT
- PULLBOX 24" x 36"
- C.I.M. CENTER IN MEDIAN
- UDL (UNDER DECK LUMINAIRE)
- JUNCTION BOX

N

STATION — OFFSET

100+00.00, (100.00RT)

LED C A(T) 4 ANSI

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

HL-51-RZ	
A,C,E	RED
B,D,F	BLACK
N	WHITE
GND	GREEN OR BARE
G,H	SPARE 30A
I,J	SPARE 30A
240/480VAC 3 WIRE ISOLATED NEUTRAL	

3" CONDUIT
295+78.52, 317.12' LT
LPB2

296+24.87, 329.76' LT
LPB3

296+26.33, 316.74' LT
LED C 7(T) 8 CRZ1

294+89.30, 99.73' LT
HL-51-RZ
(DOOR FACING EAST)

294+75.98, 105.42' LT
LPB27

3-8AWG

3" C

2-6AWG
1-8AWG

296+94.27, 122.19' LT
LED C 7(T) 8 CRZ2

294+99.04, 88.85' LT
LPB1

3" CONDUIT
2-6AWG
8-8AWG

2-6AWG
1-8AWG

294+36.66, 76.73' RT
LPB14

44-8AWG

7-8AWG

INTERCEPT
EXISTING
CONDUIT

295+32.45, 76.33' RT
LPB13

296+22.22, 185.36' RT
LPB12

3" CONDUIT

297+8.88, 164.02' RT
LED C 7(T) 8 ERZ1

297+8.88, 183.47' RT
LPB11

297+99.43, 104.41' RT
LPB10

EMPTY

300+69.19, 89.53' RT
LPB9

299+39.03, C.I.M.
LED C 7(T) 10 ERZ4/ERZ5

297+98.28, C.I.M.
LED C 7(T) 10 ERZ2/ERZ3

3" CONDUIT

3-8AWG

300+68.85, C.I.M.
LED C 7(T) 10 ERZ6/ERZ7

302+27.10, 155.44' LT
LPB4

302+13.02, 132.18' LT
LED C 7(T) 8 CRZ3

302+2.84, 103.71' RT
LED C 7(T) 8 ERZ8

302+28.46, 141.53' RT
LPB8

3" CONDUIT

3" CONDUIT
3-8AWG

303+51.49, 158.32' LT
LPB5

303+79.16, 118.15' LT
LED C 7(T) 8 CRZ4

3" CONDUIT

304+32.48, C.I.M.
LPB6

305+87.93, C.I.M.
LED C 7(T) 10 CRZ5/CRZ6

306+85.01, C.I.M.
LED C 7(T) 10 CRZ7/CRZ8

303+65.35, 108.74' RT
LED C 7(T) 8 ERZ9

303+48.17, 142.85' RT
LPB7

STH 20

IH 94

SHEET 9 OF 10

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	PROPOSED LIGHTING PLAN	SHEET 207 E

FILE NAME : J:\projects\d2_10330294\71\LTG\023602_LP - Copy.dgn PLOT DATE : 23-JUL-2019 10:17 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 100:1

LEGEND

- DISTRIBUTION CENTER
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- CONDUIT STUBOUT
- PULLBOX 24" x 36"
- C.I.M. — CENTER IN MEDIAN
- UDL (UNDER DECK LUMINAIRE)
- JUNCTION BOX

N

STATION — OFFSET

100+00.00, (100.00RT)

LED C A(T) 4 ANSI

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

HL-51-RZ	
A,C,E	RED
B,D,F	BLACK
N	WHITE
GND	GREEN OR BARE
G,H	SPARE 30A
I,J	SPARE 30A
240/480VAC 3 WIRE ISOLATED NEUTRAL	

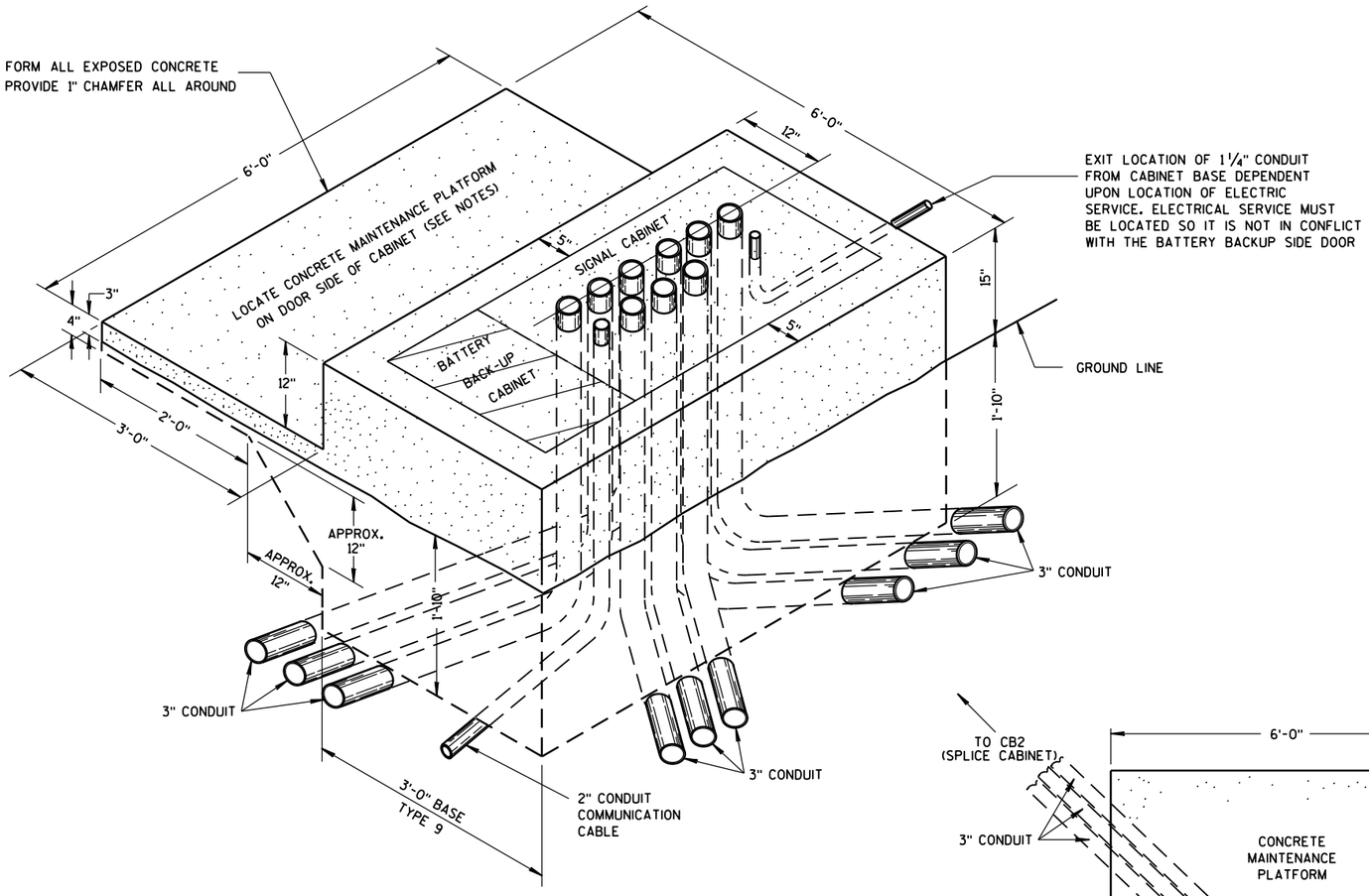
866NE
864NE
862NE
860
858SE
858
858SE
5862
5860
3858
3856
94
296
298
300
302
304
306
308
STH 20
IH 94
IH 94

296+24.87, 329.76'LT
LPB3
3" CONDUIT
295+78.52, 317.12'LT
LPB2
296+26.33, 316.74'LT
LED C 7(T) 8 CRZ1
294+89.30, 99.73'LT
HL-51-RZ
(DOOR FACING EAST)
2-6AWG
1-8AWG
294+75.98, 105.42'LT
LPB27
3-8AWG
3" C
296+94.27, 122.19'LT
LED C 7(T) 8 CRZ2
294+99.04, 88.85'LT
LPB1
302+27.10, 155.44'LT
LPB4
302+13.02, 132.18'LT
LED C 7(T) 8 CRZ3
3" CONDUIT
3-8AWG
303+51.49, 158.32'LT
LPB5
303+79.16, 118.15'LT
LED C 7(T) 8 CRZ4
3" CONDUIT
299+39.03, C.I.M.
LED C 7(T) 10 ERZ4/ERZ5
297+98.28, C.I.M.
LED C 7(T) 10 ERZ2/ERZ3
3-8AWG
300+68.85, C.I.M.
LED C 7(T) 10 ERZ6/ERZ7
3" CONDUIT
304+32.48, C.I.M.
LPB6
305+87.93, C.I.M.
LED C 7(T) 10 CRZ5/CRZ6
306+85.01, C.I.M.
LED C 7(T) 10 CRZ7/CRZ8
3" CONDUIT
2-6AWG
8-8AWG
2-6AWG
1-8AWG
294+36.66, 76.73'RT
LPB14
4-8AWG
7-8AWG
INTERCEPT
EXISTING
CONDUIT
295+32.45, 76.83'RT
LPB13
296+24.24, 185.36'RT
LPB12
297+99.43, 104.41'RT
LPB10
EMPTY
300+69.19, 89.53'RT
LPB9
297+8.88, 164.02'RT
LED C 7(T) 8 ERZ1
297+8.88, 183.47'RT
LPB11
3" CONDUIT
302+2.84, 103.71'RT
LED C 7(T) 8 ERZ8
302+28.46, 141.53'RT
LPB8
3" CONDUIT
303+65.35, 108.74'RT
LED C 7(T) 8 ERZ9
303+48.17, 142.85'RT
LPB7

SHEET 10 OF 10

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	PROPOSED LIGHTING SCEMATIC	SHEET 208 E

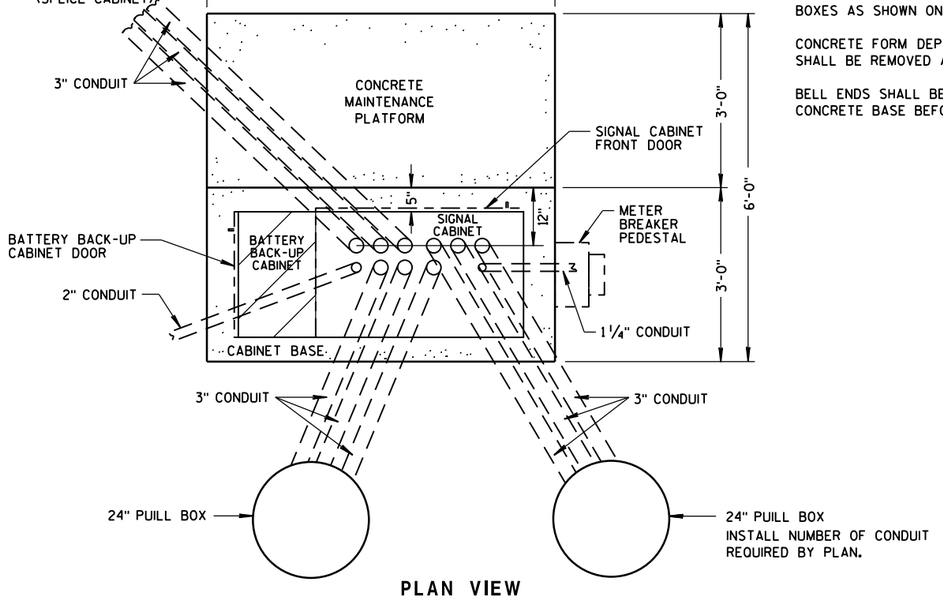
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ISOMETRIC VIEW

TYPE 9, SPECIAL (MOD.)

(C.Y. CONCRETE = APPROX. 2.31)



PLAN VIEW

GENERAL NOTES

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

INSTALL FOUR 3/8 INCH DROP-IN ANCHORS TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IN NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL MODIFIED BATTERY BACK-UP CABINET WITH CB2 (SPLICE CABINET)

2

GENERAL NOTES

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

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING THIER OWN DETERMINATION AS TO THE TYPE AND LOCATION OF THE UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUNG THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZE AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASE SHALL BE 4½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF THE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTOR FITTINGS, UL LISTED FOR ELECTRICAL USE, SHALL BE USED.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

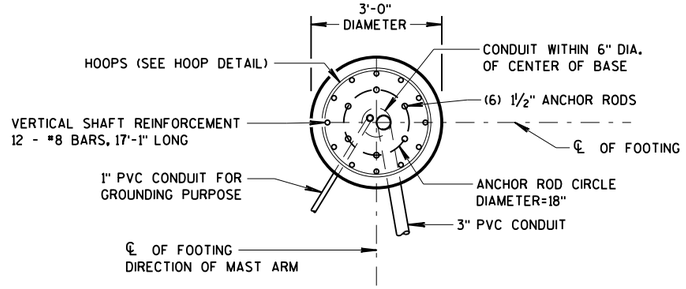
THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1-INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4-FOOT COIL OF WIRE ABOVE THE CONCRETE BASE, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS.

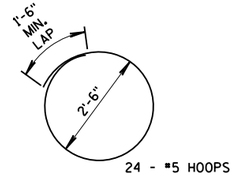
THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVEL WAY SHALL BE 24-INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18-INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36-INCHES, (GREATER THAN 36-INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

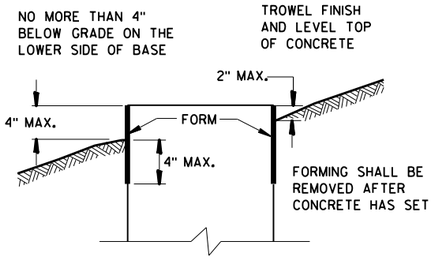
CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATIONS	fy=55,000 p.s.i.
TEMPLATES, ASTM A709 GRADE 36	fy=36,000 p.s.i.



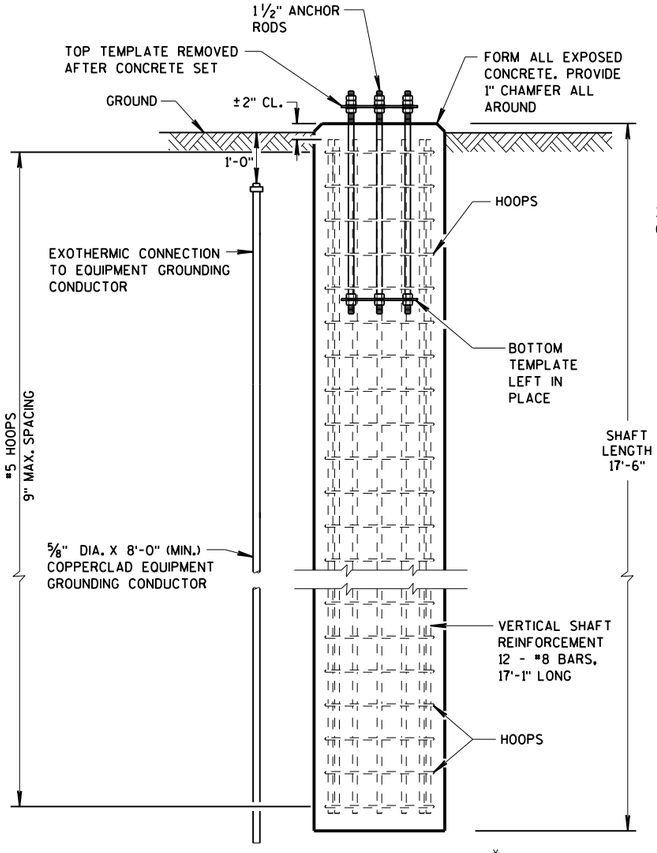
PLAN VIEW



HOOP DETAIL

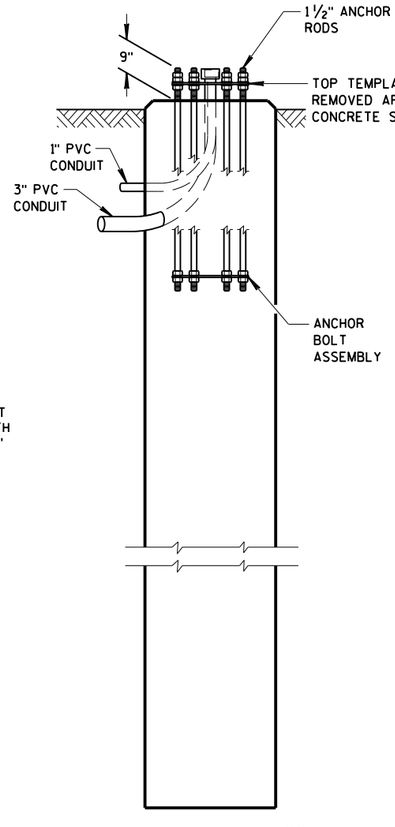


FORMING DETAIL



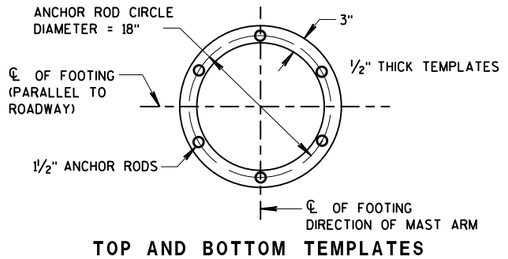
ELEVATION VIEW*

* CONDUITS ARE NOT SHOWN ON THIS VIEW FOR CLARITY

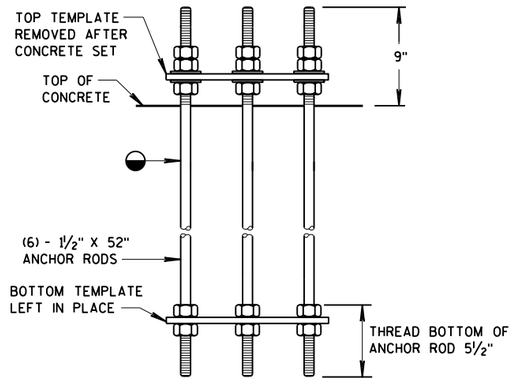


SIDE VIEW**

** HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE ANCHOR ASSEMBLY

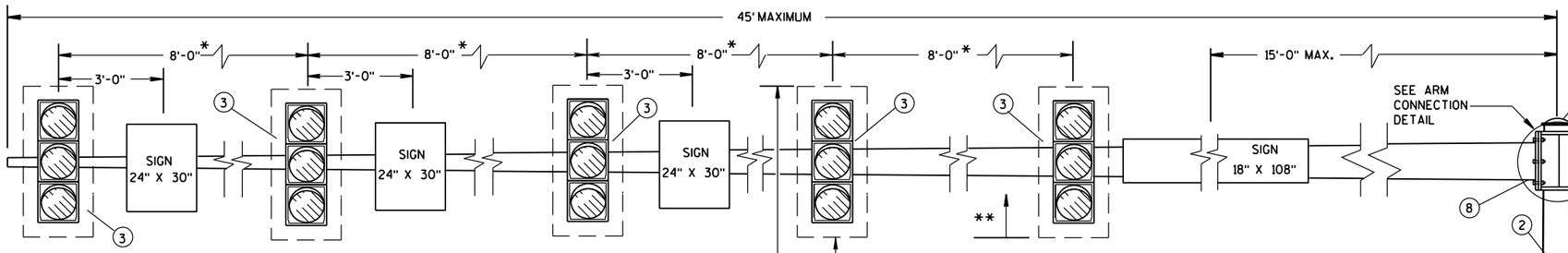
◒ THREAD TOP 9" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5½" FOR 2 NUTS PER ANCHOR ROD. HOT-DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR RODS (ASTM A123) AND HOT-DIP NUTS AND WASHERS (ASTM A153). USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

(FOR TYPE 9 & 10 SPECIAL POLES)

CONCRETE = 4.6 C.Y.
H.S. REINFORCEMENT = 779 LBS.

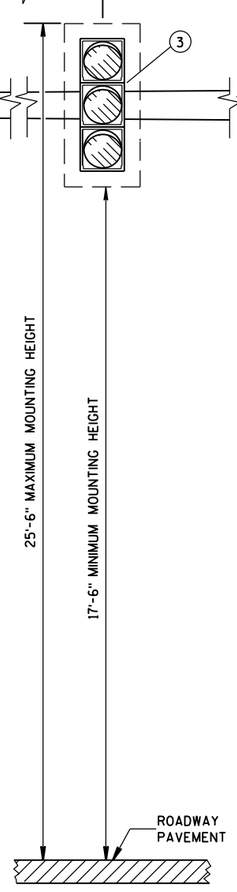
TO BE USED WHEN GROUND ELEVATION, AT BASE, EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.

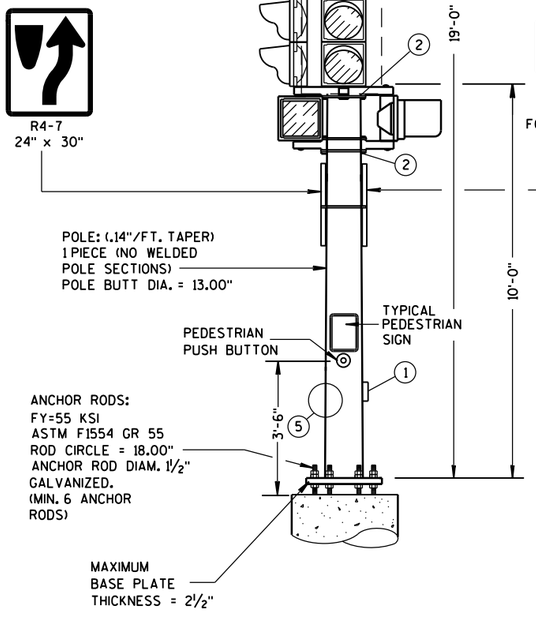
PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TYPE 9&10 SPECIAL TRAFFIC SIGNAL BASE DETAILS	SHEET 210	E

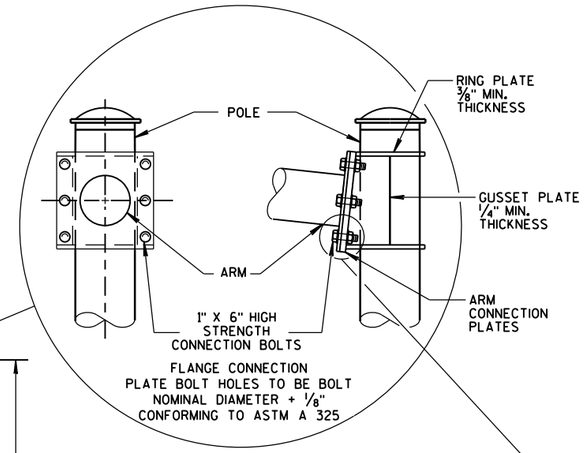


* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

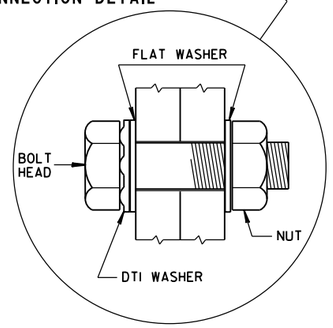
** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.



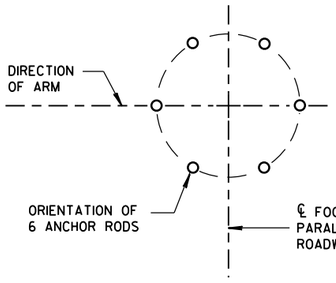




6 BOLT ARM CONNECTION DETAIL



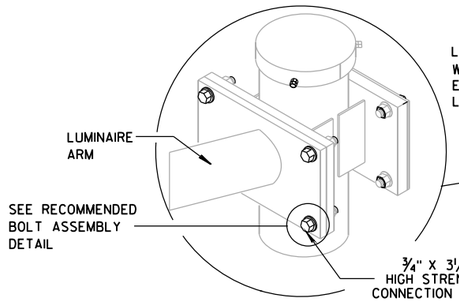
RECOMMENDED BOLT ASSEMBLY DETAIL

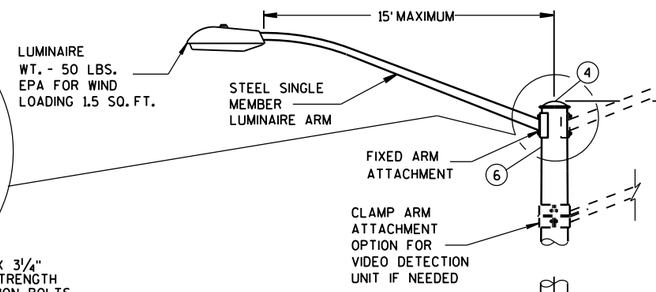


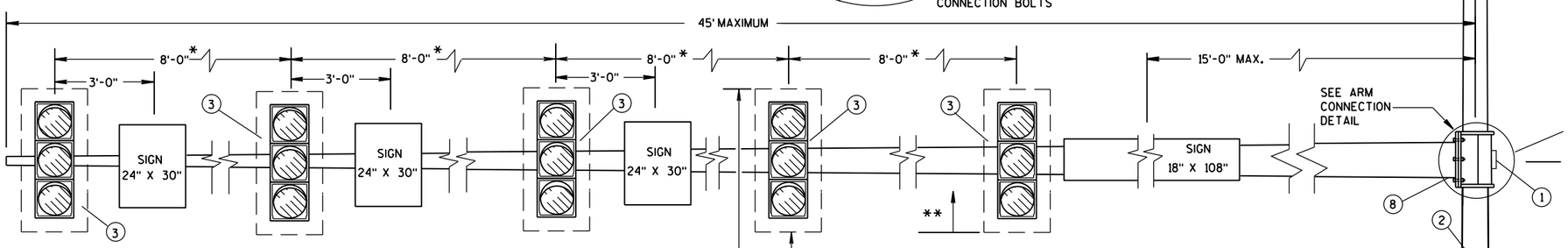
ANCHOR ROD LOCATION

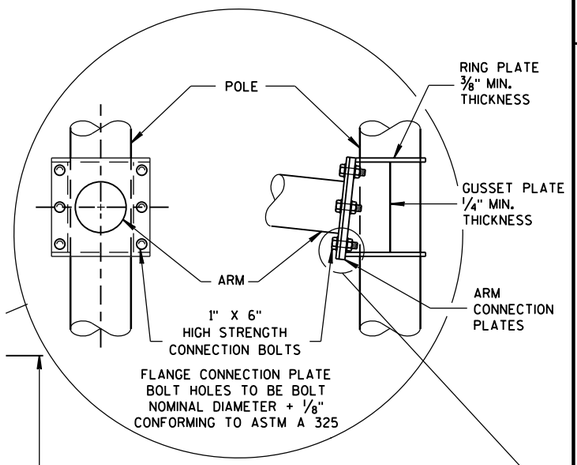
(MAXIMUM LOAD)

TYPE 9 SPECIAL POLE
35'- 45' MONOTUBE ARM





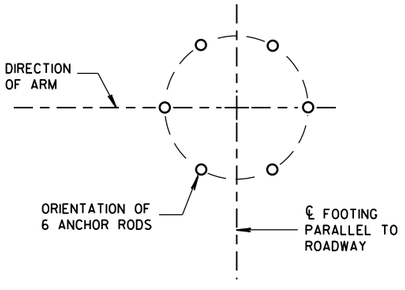




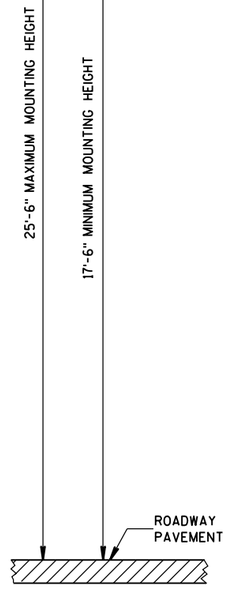
8 BOLT ARM CONNECTION DETAIL

* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY. NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

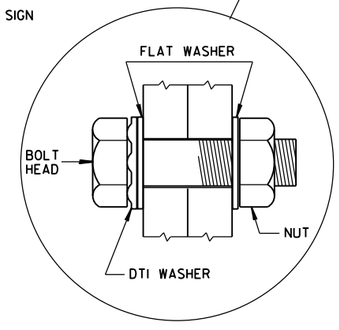
** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.



ANCHOR ROD LOCATION



(MAXIMUM LOAD)



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 SPECIAL POLE
35'- 45' MONOTUBE ARM

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TYPE 9 & 10 SPECIAL TRAFFIC SIGNAL POLE DETAILS	SHEET 212	E

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET & HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
4. TEMPORARY DETECTORS SHALL BE MOUNTED AT THE HEIGHT RECOMMENDED BY THE MANUFACTURER IN THE SPECIFICATIONS.
5. WISDOT ELECTRICAL (414-266-1170) SHALL BE NOTIFIED 5 WORKING DAYS BEFORE SWITCH TO TEMPORARY TRAFFIC SIGNALS.

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

W. FRONTAGE RD.

SPEED LIMIT = 35 MPH

SPEED LIMIT = 45 MPH

STH 20

R/W

WP1 WP2 WP3 WP4 WP5 WP6

OH

SIGN

MH

4866 4865 2865 2864

285 286 287 288 289 290

6. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
7. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
8. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POLE OR POST.
9. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
10. WOOD POLES LONGER THAN 45-FEET MAY BE NECESSARY DUE TO ELEVATION DIFFERENCES.

SUMMARY OF SELECTED ITEM FOR INFORMATION ONLY

QUANTITY	DESCRIPTION
6 EA	WOOD POLES, CLASS 4
800 LF	SPAN WIRE
8 EA	LIGHTING (250W OR LED-C)
31 EA	SIGNAL HEADS

TRAFFIC CONTROL SIGNAL
STH 20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0728

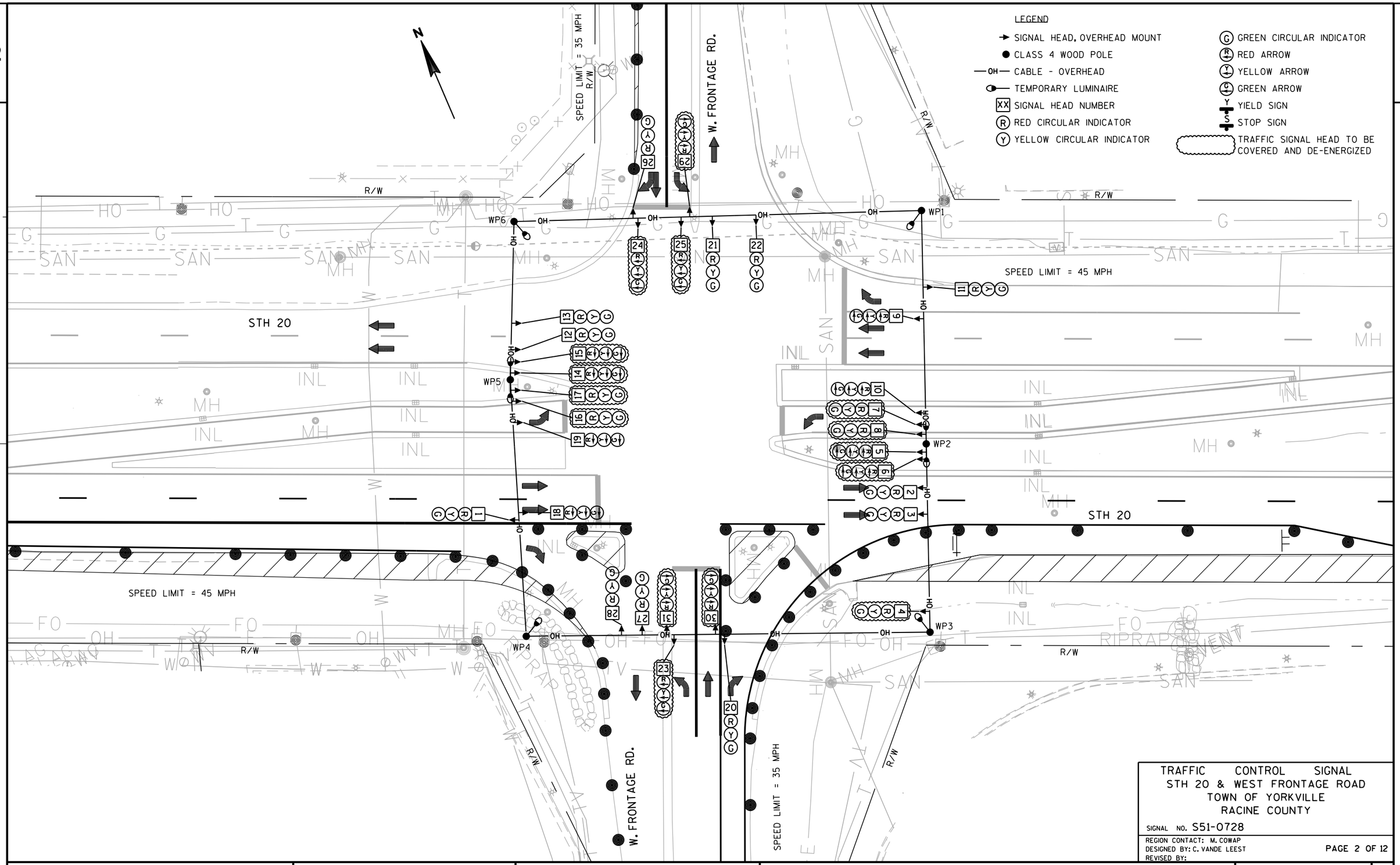
REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 1 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION	SHEET 213 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0728\S51-0728_TSPre.dgn PLOT DATE : 11-OCT-2019 10:16 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
STH 20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0728

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 2 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A	SHEET 214	E

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

SPEED LIMIT = 35 MPH

W. FRONTAGE RD.

4866

4865

2865

2864

R/W

STH 20

SPEED LIMIT = 45 MPH

WP1

WP2

WP3

WP4

WP5

WP6

OH

285

286

287

288

289

290

MH

SAN

FO

TV

TRAFFIC CONTROL SIGNAL
STH 20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0728

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 3 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B	SHEET 215	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0728\S51-0728_TS1B.dgn PLOT DATE : 11-OCT-2019 10:16 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

W. FRONTAGE RD.

SPEED LIMIT = 35 MPH

SPEED LIMIT = 45 MPH

STH 20

R/W

WP1

WP2

WP3

WP4

WP5

WP6

OH

4866

2865

2864

285

286

288

289

290

TRAFFIC CONTROL SIGNAL
STH 20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

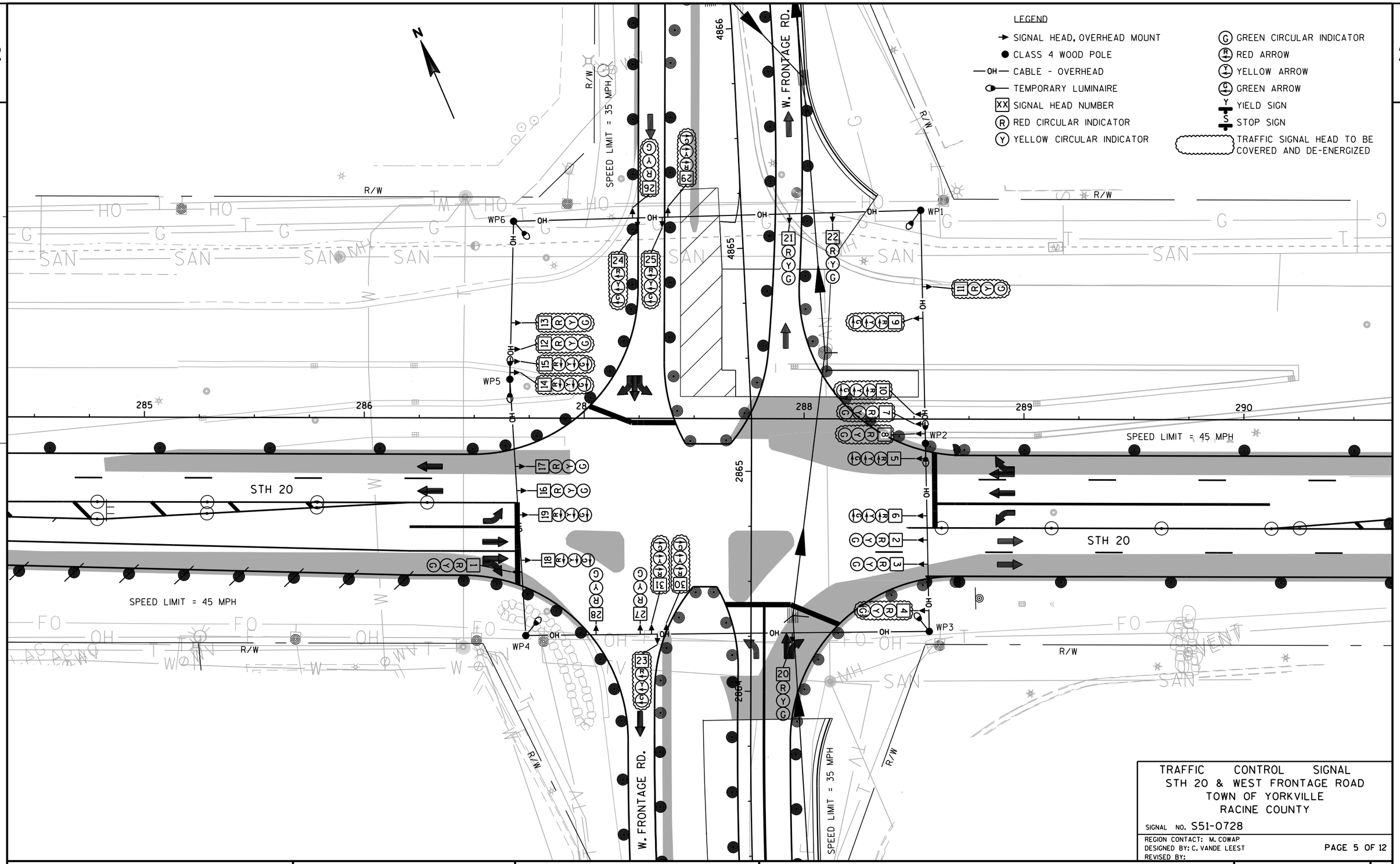
SIGNAL NO. S51-0728

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 4 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A	SHEET 216	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0728\S51-0728_TS2A.dgn PLOT DATE : 11-OCT-2019 10:16 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1



TRAFFIC CONTROL SIGNAL
STH 20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0728

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 5 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2B	SHEET 217 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0728\S51-0728_TS2B.dgn PLOT DATE : 11-OCT-2019 10:16 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

W. FRONTAGE RD.

SPEED LIMIT = 35 MPH

SPEED LIMIT = 45 MPH

STH 20

R/W

WP1

WP2

WP3

WP4

WP5

WP6

285 286 287 288 289 290

4866

2865

2864

TRAFFIC CONTROL SIGNAL
STH 20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0728

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 6 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2C	SHEET 218 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0728\S51-0728_TS2C.dgn PLOT DATE : 11-OCT-2019 10:16 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

STH 20

W. FRONTAGE RD.

SPEED LIMIT = 35 MPH

SPEED LIMIT = 45 MPH

R/W

WP1

WP2

WP3

WP4

WP5

WP6

TRAFFIC CONTROL SIGNAL
STH 20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0728

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 7 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3A	SHEET 219 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0728\S51-0728_TS3A.dgn PLOT DATE : 11-OCT-2019 10:17 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

W. FRONTAGE RD.

SPEED LIMIT = 35 MPH

R/W

STH 20

SPEED LIMIT = 45 MPH

WP1 WP2 WP3 WP4 WP5 WP6

OH

285 286 287 288 289 290

2865 2864

SPEED LIMIT = 35 MPH

TRAFFIC CONTROL SIGNAL
STH 20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

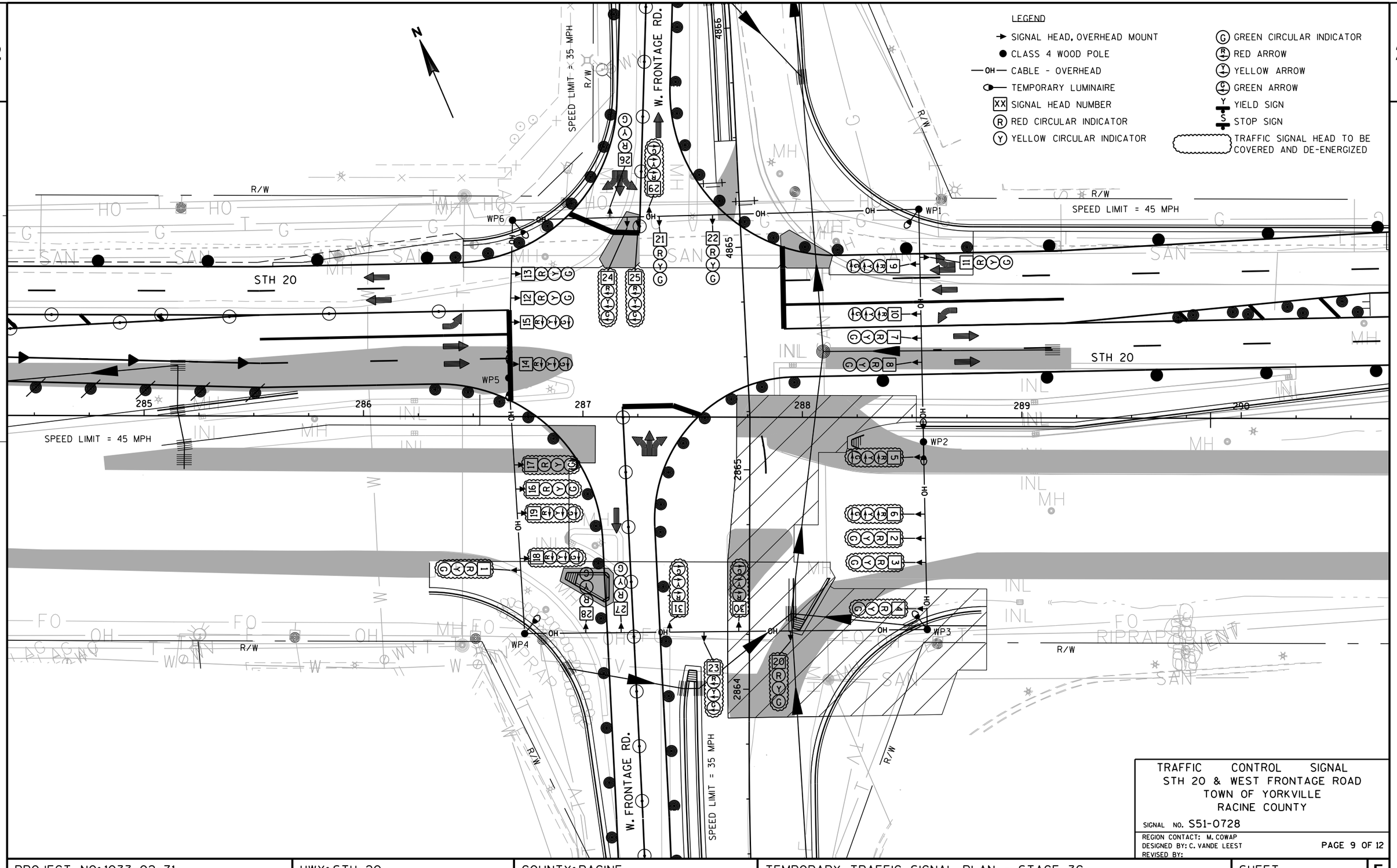
SIGNAL NO. S51-0728

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 8 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3B	SHEET 220 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0728\S51-0728_TS3B.dgn PLOT DATE : 11-OCT-2019 10:17 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1



TRAFFIC CONTROL SIGNAL
STH 20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0728

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 9 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3C	SHEET 221 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0728\S51-0728_TS3C.dgn PLOT DATE : 11-OCT-2019 10:17 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

SPEED LIMIT = 35 MPH

R/W

W. FRONTAGE RD.

STH 20

SPEED LIMIT = 45 MPH

WP1

WP2

WP3

WP4

WP5

WP6

4866

4865

2865

2864

285

286

289

290

TRAFFIC CONTROL SIGNAL
STH 20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0728

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 10 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4A	SHEET 222 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0728\S51-0728_TS4A.dgn PLOT DATE : 11-OCT-2019 10:17 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

SPEED LIMIT = 35 MPH

R/W

W. FRONTAGE RD.

STH 20

SPEED LIMIT = 45 MPH

WP1 WP2 WP3 WP4 WP5 WP6

4866 4865 2865 2864

285 286 289 290

TRAFFIC CONTROL SIGNAL
STH 20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0728

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

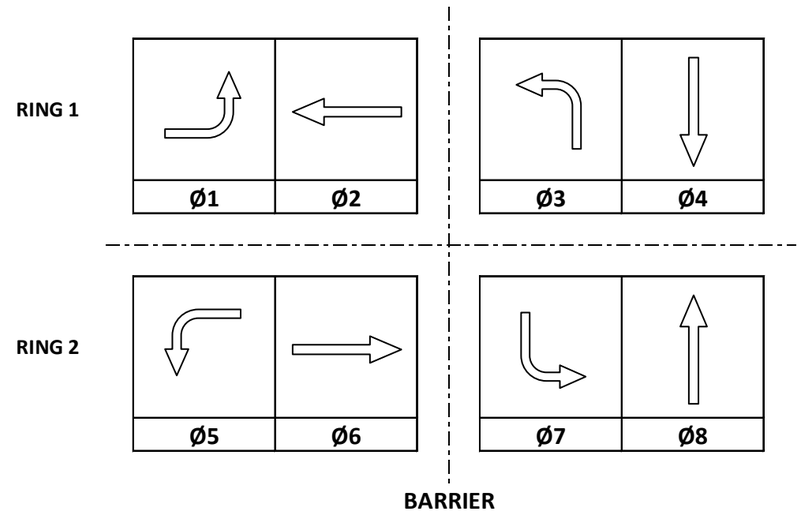
PAGE 11 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4B	SHEET 223	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0728\S51-0728_TS4B.dgn PLOT DATE : 11-OCT-2019 10:17 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

2

	HEAD NUMBERS	FLASH
Ø1	5,6,9,10	R ←
Ø2	11,12,13,16,17	R
Ø3	23,24,25	R ←
Ø4	26,27,28	R
Ø5	14,15,18,19	R ←
Ø6	1,2,3,4,7,8	R
Ø7	29,30,31	R ←
Ø8	20,21,22	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLA		
OLB		
OLC		
OLD		





TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

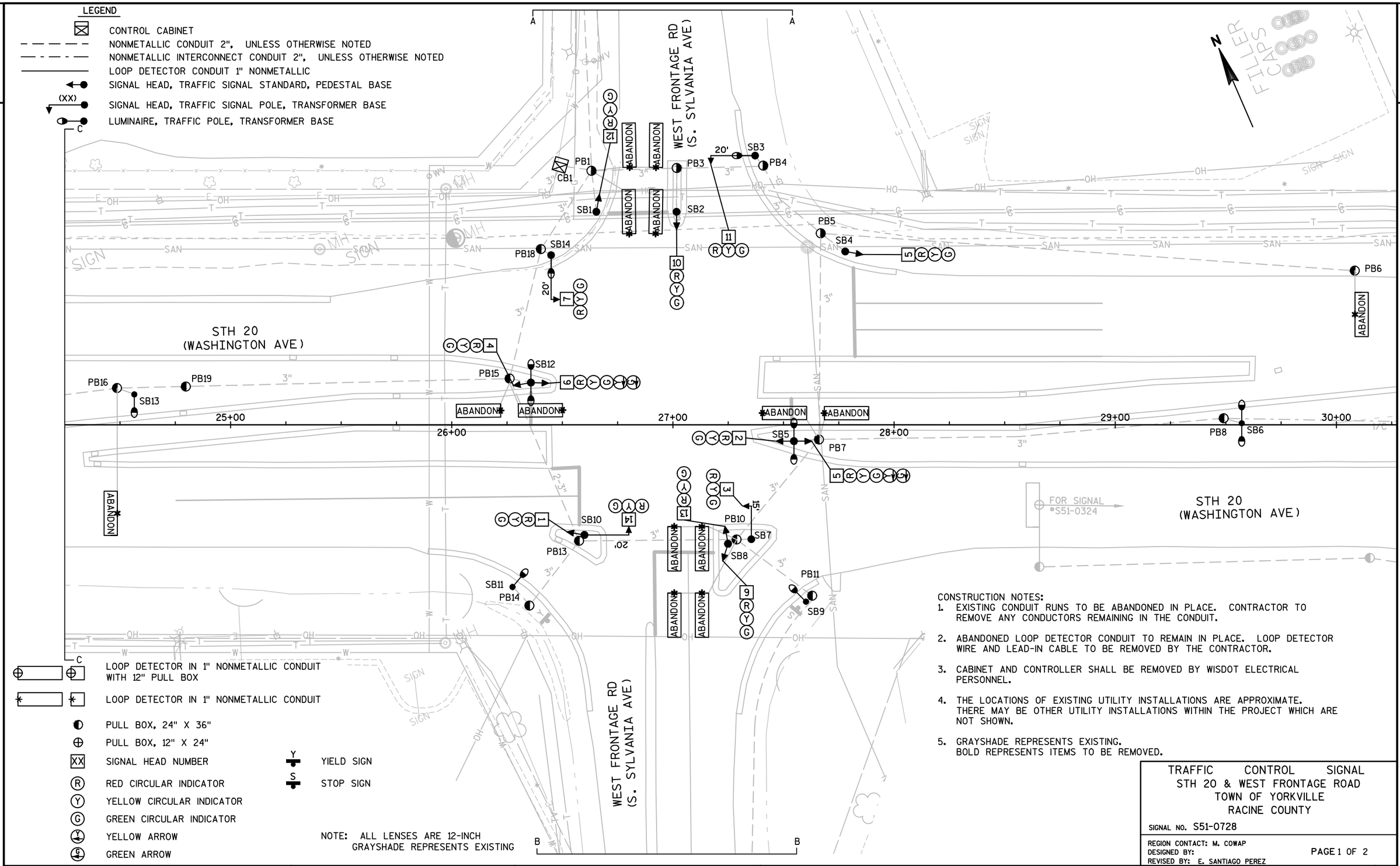
STH 20 & WEST FRONTAGE RD
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO: T51-0728 CABINET TYPE: TS1
CONTROLLER TYPE: ECONOLITE
DATE: OCTOBER 2019 PAGE NUMBER: 12 OF 12

FILE NAME: \\dotwkefile1p\N3PUBLIC\SPO\Operations\Signals\Projects\1033-02-71_STH_20 _Corridor\TempSeqofOps\0728_4\TS1.xlsx PLOT DATE: 10/8/2019 PLOT NAME: TS1.xlsx PLOT BY: _____ PLOT SCALE: 1:1

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- C LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE



- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT WITH 12" PULL BOX
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 12" X 24"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- Y YELLOW ARROW
- G GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

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

TRAFFIC CONTROL SIGNAL
STH 20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

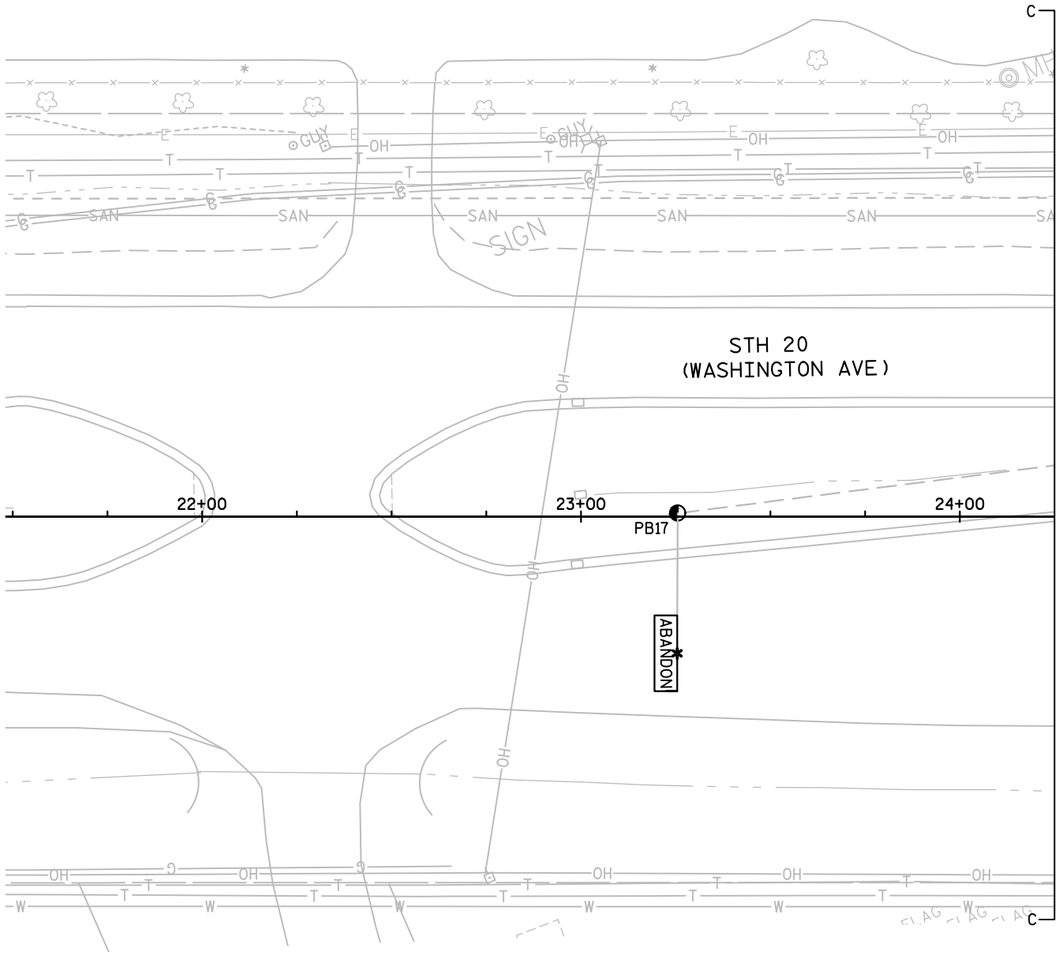
SIGNAL NO. S51-0728

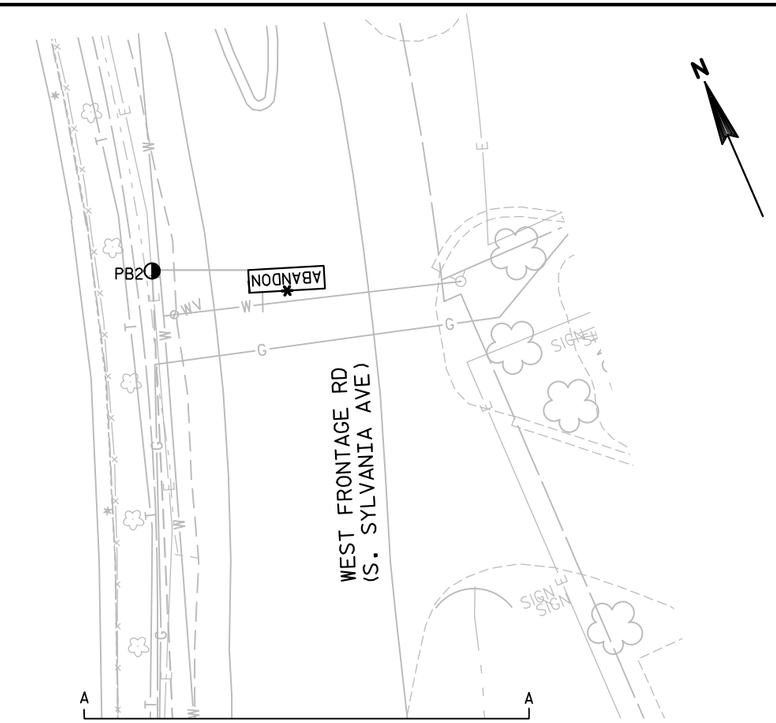
REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: E. SANTIAGO PEREZ

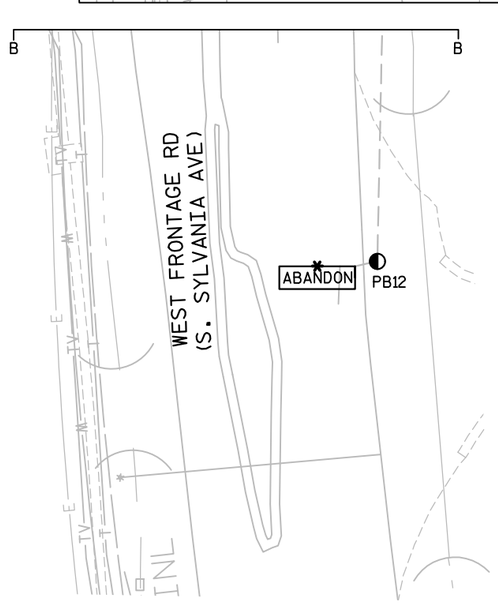
PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 225	E

FILE NAME : J:\PROJECTS\D2_10330294\71\SIG\S51-0728\S51-0728_REM_14-16.DWG
LAYOUT NAME - S51-0728_REM_PG1
PLOT DATE : 3/21/2019 11:38 AM PLOT BY : SANTIAGO PEREZ, EDGAPLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2







TRAFFIC CONTROL SIGNAL
STH 20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0728

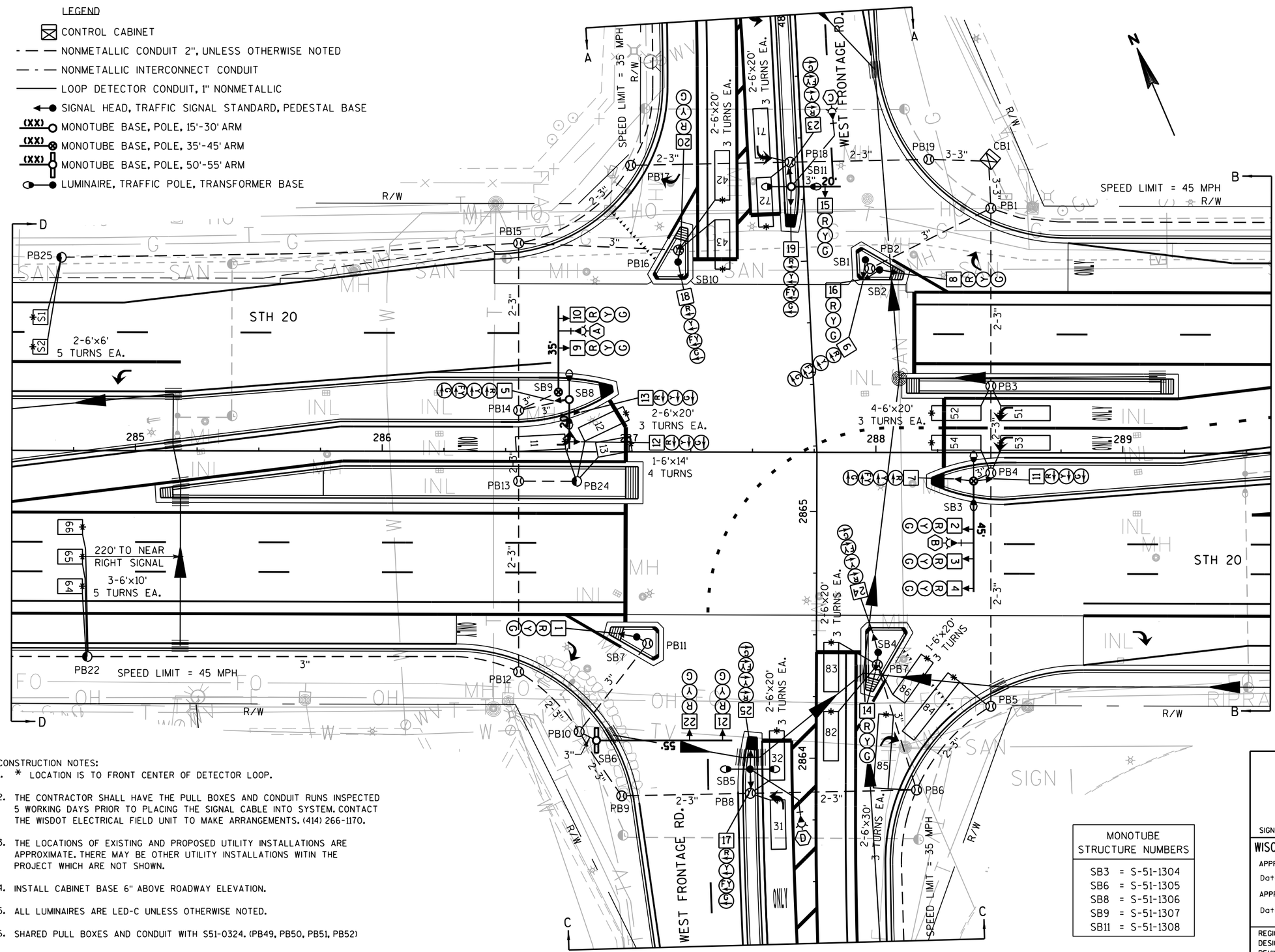
REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: E. SANTIAGO PEREZ

PAGE 2 OF 2

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 226	E

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- (XX) MONOTUBE BASE, POLE, 50'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE



- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- V COMMUNICATIONS VAULT
- Y YIELD SIGN
- S STOP SIGN

EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.
2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.
3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH EXISTING SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.
4. FOR A CABINET THAT IS NOT OPERATING THE SIGNAL, CABINET WIRING WILL BE DONE BY THE CONTRACTOR. IF THE CABINET IS OPERATING THE SIGNAL, THE CABINET WIRING WILL BE DONE BY THE DEPARTMENT. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED AND SHALL LABEL EACH CABLE AS NOTED ON THE PLAN SHEETS (I.E. EVP A-B-C-D)

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING THE SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
6. SHARED PULL BOXES AND CONDUIT WITH S51-0324. (PB49, PB50, PB51, PB52)

MONOTUBE STRUCTURE NUMBERS	
SB3	= S-51-1304
SB6	= S-51-1305
SB8	= S-51-1306
SB9	= S-51-1307
SB11	= S-51-1308

TRAFFIC CONTROL SIGNAL

STH 20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0728
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

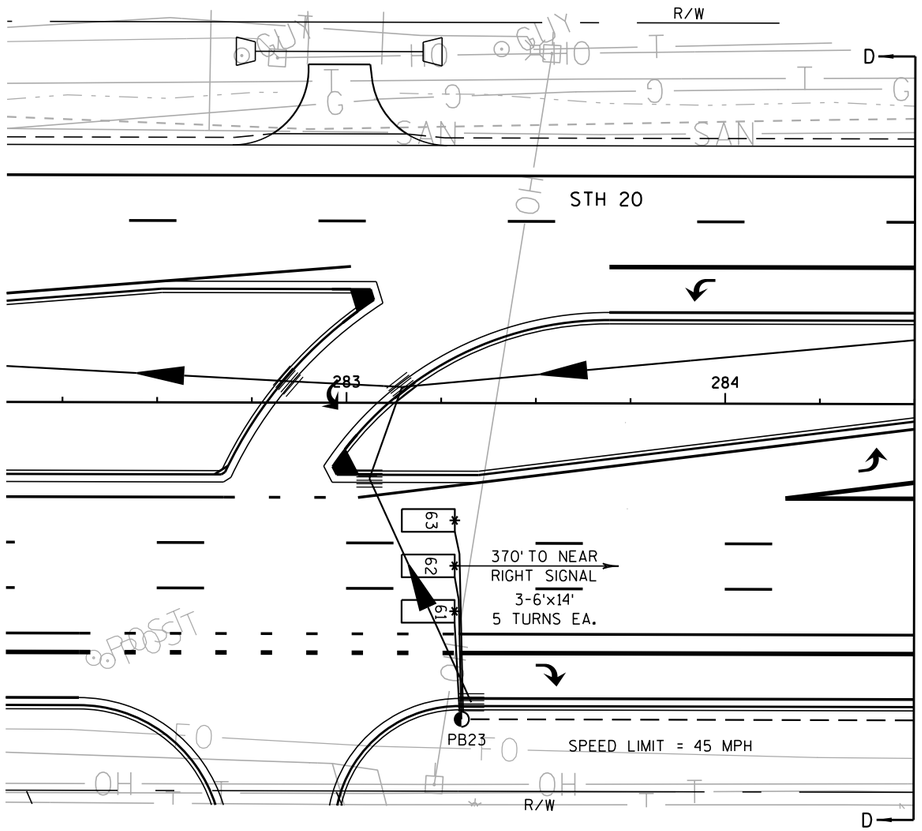
APPROVAL RECOMMENDED
Date 10/29/19 — Joyce M Murphy, REGION TRAFFIC ENGINEER

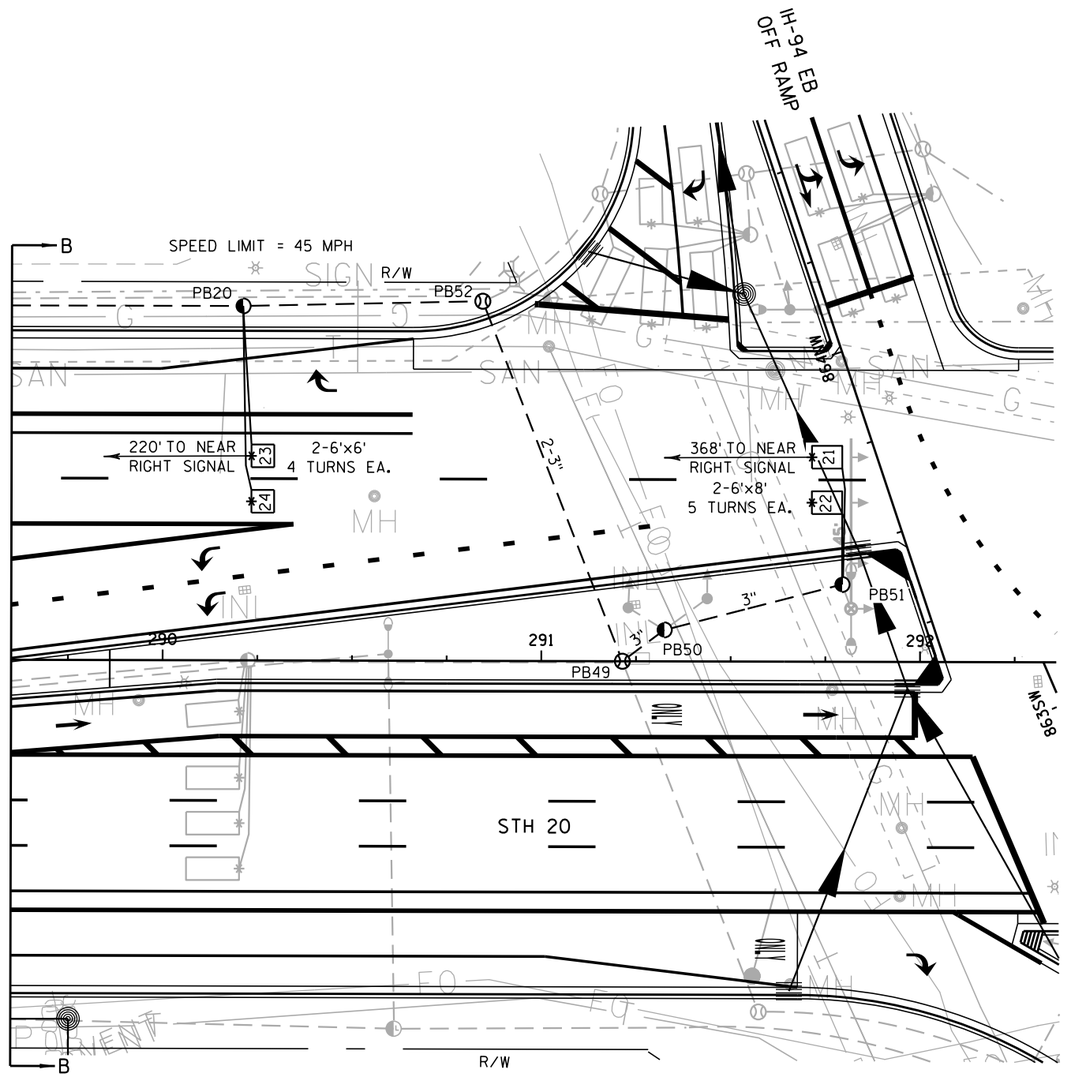
APPROVED
Date 11/6/19 — Jerry R Steven, STATE TRAFFIC ENGINEER

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 227	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0728\S51-0728_pg1.dgn
PLOT DATE : 27-NOV-2019 10:03
PLOT BY : dotcmv
PLOT NAME :
PLOT SCALE : 40:1
WISDOT/CADDS SHEET 42





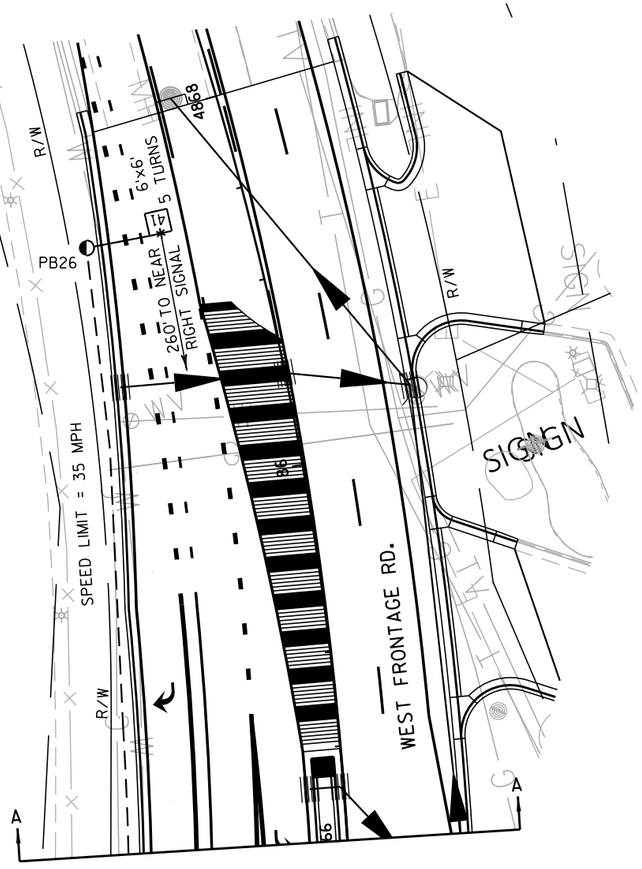
TRAFFIC CONTROL SIGNAL
STH 20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

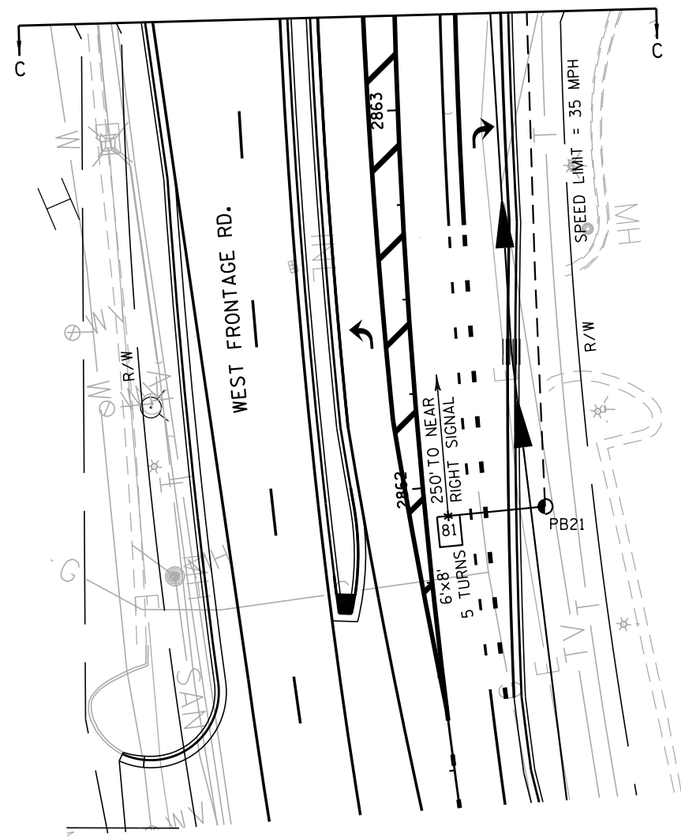
SIGNAL NO. S51-0728

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 2 OF 4

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 228	E





TRAFFIC CONTROL SIGNAL
STH 20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0728

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

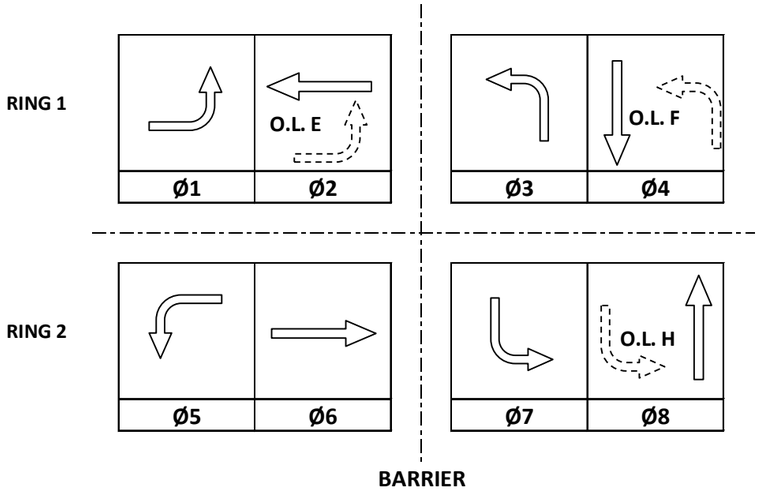
PAGE 3 OF 4

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 229	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0728\S51-0728_pg3.dgn PLOT DATE : 27-NOV-2019 10:03 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R ←
Ø2	8,9,10	R
Ø3	17,18,19	R ←
Ø4	20,21,22	R
Ø5	11,12,13	R ←
Ø6	1,2,3,4	R
Ø7	23,24,25	R ←
Ø8	14,15,16	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLE	5,6,7	-
OLF	17,18,19	-
OLG		
OLH	23,24,25	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓	↑
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 51-0036

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	X
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	13	22	24	32	42	51	53
CALLED PHASE	1	1	2	2	3	4	5	5
CALL OPTION	X	X	X	X	X	X	X	X
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								
USE ADDED INITIAL				X				
CROSS SWITCH PHASE	2	2			4			

19	17	23	21	27	25	31	29	DETECTOR INPUT
55	57	62	64	66	72	82	S1	PLAN LOOP DETECTOR*(S)
5	5	6	6	6	7	8		CALLED PHASE
X	X	X	X	X	X	X		CALL OPTION
X	X							DELAY TIME
X	X	X	X	X	X	X		EXTENTION OPTION
								EXTEND TIME
		X	X	X				USE ADDED INITIAL
					8			CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	21	23	31	41	43	52	54
CALLED PHASE	1	2	2	3	4	4	5	5
CALL OPTION	X	X	X	X		X	X	X
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME					X			
USE ADDED INITIAL			X					
CROSS SWITCH PHASE	2			4				

20	18	24	22	28	26	32	30	DETECTOR INPUT
56	61	63	65	71	81	83	S2	PLAN LOOP DETECTOR*(S)
5	6	6	6	7	8	8		CALLED PHASE
X	X	X	X	X		X		CALL OPTION
X								DELAY TIME
X	X	X	X	X	X	X		EXTENTION OPTION
					X			EXTEND TIME
	X	X	X					USE ADDED INITIAL
				8				CROSS SWITCH PHASE

GENERAL NOTES:

1. DETECTORS 21 & 22 DO NOT USE ADDED INITIAL DUE TO THE LOCATION OF THESE LOOPS

STH20 & WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO: S51-0728 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: SEPTEMBER 2019 PAGE NUMBER: 4 OF 4

FILE NAME: \\dotwkefile1p\N3PUBLIC\SPO\Operations\Signals\Databases\Signal Intersection Files\S51-0728\PLANS\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: 9/17/2019 PLOT NAME: TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT BY: M COWAP PLOT SCALE: 1:1

2

PROJECT ID:	1033-02-71
INTERSECTION:	STH 20 & W FRONTAGE RD

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

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	FUTURE APS
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	7	16	RED	ORG	GRN								
SB2	12	6				RED	ORG	GRN	WHT/BLK				
		8	RED/BLK	ORG/BLK	GRN/BLK								
SB3	15	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
		7				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		11				RED/WHT	BLU/WHT	GRN/WHT					
SB4	12	14	RED	ORG	GRN								
		24				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB5	12	17				RED	ORG	GRN	WHT/BLK				
		25				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB6	7	21	RED	ORG	GRN								
		22	RED	ORG	GRN								
SB7	7	1	RED	ORG	GRN								
SB8	12	5				RED	ORG	GRN	WHT/BLK				
		12				RED/BLK	ORG/BLK	GRN/BLK					
		13				RED/BLK	ORG/BLK	GRN/BLK					
SB9	7	9	RED	ORG	GRN								
		10	RED	ORG	GRN								
SB10	12	18				RED	ORG	GRN	WHT/BLK				
		20	RED/BLK	ORG/BLK	GRN/BLK								
SB11	15	15	RED	ORG	GRN								
		19				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		23				RED/WHT	BLU/WHT	GRN/WHT	WHT/BLK				

*Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.
*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.
*Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	CABLE ROUTING	SHEET: 231	E

FILE NAME : J:\PROJECTS\d2_10330294\71\SIG\S51-0728\S51-0728_cr.pptx PLOT DATE : 5/13/2019 PLOT BY : DOTCMV PLOT NAME : S51-0728_cr.pdf PLOT SCALE : 1:1

2

Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB2	SB1
PB3	SB3
PB4	SB3
PB5	SB3
PB6	SB4
PB7	SB4
PB8	SB5
PB9	SB6
PB10	SB6
PB11	SB7
PB12	SB6
PB13	SB9
PB14	SB9
PB15	SB10
PB16	SB10
PB17	SB11
PB18	SB11
PB19	CB1

Lighting UF 2-10 AWG Grounded	
From	To
CB1	SB3
SB3	SB5
CB1	SB11
SB11	SB8

Emergency Vehicle Preemption	
From	To
CB1	SB9 (HEAD A)
CB1	SB3 (HEAD B)
CB1	SB11 (HEAD C)
CB1	SB5 (HEAD D)

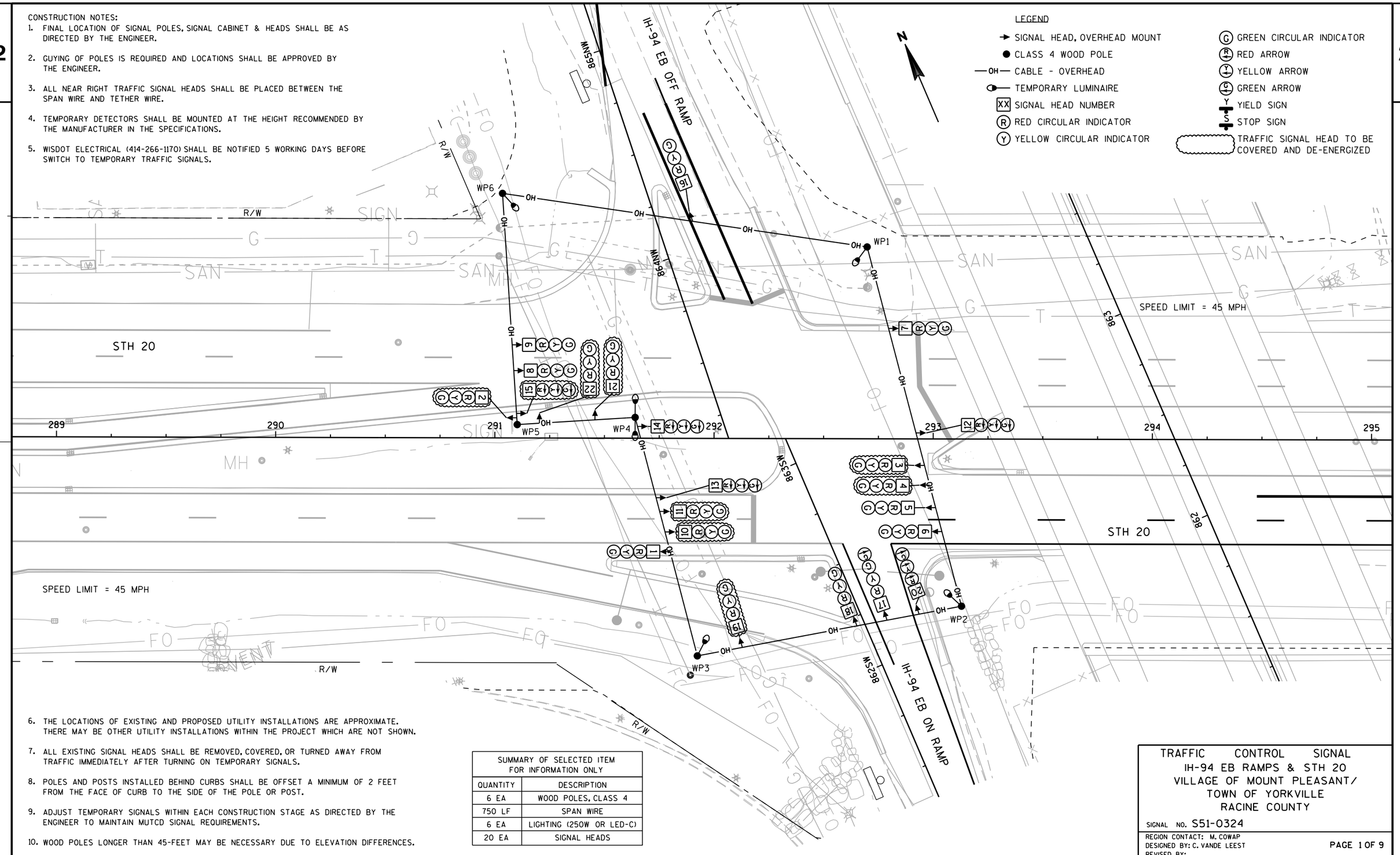
Confirmation Beacon Cable Traffic Signal 3-14 AWG	
From	To
CB1	SB9 (HEAD A)
CB1	SB3 (HEAD B)
CB1	SB11 (HEAD C)
CB1	SB5 (HEAD D)

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET & HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
4. TEMPORARY DETECTORS SHALL BE MOUNTED AT THE HEIGHT RECOMMENDED BY THE MANUFACTURER IN THE SPECIFICATIONS.
5. WISDOT ELECTRICAL (414-266-1170) SHALL BE NOTIFIED 5 WORKING DAYS BEFORE SWITCH TO TEMPORARY TRAFFIC SIGNALS.

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED



6. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
7. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
8. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POLE OR POST.
9. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
10. WOOD POLES LONGER THAN 45-FEET MAY BE NECESSARY DUE TO ELEVATION DIFFERENCES.

SUMMARY OF SELECTED ITEM FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
6 EA	WOOD POLES, CLASS 4
750 LF	SPAN WIRE
6 EA	LIGHTING (250W OR LED-C)
20 EA	SIGNAL HEADS

TRAFFIC CONTROL SIGNAL
IH-94 EB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 1 OF 9

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION	SHEET 233	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0324\S51-0324w_TSPre.dgn PLOT DATE : 25-SEP-2019 13:42 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

IH-94 EB OFF RAMP

IH-94 EB ON RAMP

865NW

864NW

865SW

863

862SW

298

STH 20

SPEED LIMIT = 45 MPH

SPEED LIMIT = 45 MPH

R/W

FLAG

RIPRAP

WP1

WP2

WP3

WP4

WP5

WP6

289 290 291 292 293 294 295

TRAFFIC CONTROL SIGNAL
IH-94 EB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 2 OF 9

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A	SHEET 234 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0324\S51-0324w_TS1A.dgn PLOT DATE : 25-SEP-2019 13:42 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

IH-94 EB OFF RAMP

IH-94 EB ON RAMP

865NW

864NW

863

865SW

862SW

STH 20

SPEED LIMIT = 45 MPH

SPEED LIMIT = 45 MPH

FLAG

R/W

R/W

R/W

R/W

SAN

SAN

SAN

SAN

MH

MH

MH

MH

FO

FO

FO

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

IH-94 EB OFF RAMP

IH-94 EB ON RAMP

865NW

864NW

865SW

863

862

R/W

FLAG

WP1

WP2

WP3

WP4

WP5

WP6

OH

289 290 291 292 293 294 295

STH 20

SPEED LIMIT = 45 MPH

SPEED LIMIT = 45 MPH

STH 20

R/W

R/W

R/W

TRAFFIC CONTROL SIGNAL
IH-94 EB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 4 OF 9

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A	SHEET 236 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0324\S51-0324w_TS2A.dgn PLOT DATE : 25-SEP-2019 13:43 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

IH-94 EB OFF RAMP

IH-94 EB ON RAMP

STH 20

SPEED LIMIT = 45 MPH

R/W

FLAG

WP1 WP2 WP3 WP4 WP5 WP6

289 290 291 292 293 294 295

863 863SW 863NW 298

TRAFFIC CONTROL SIGNAL
IH-94 EB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 5 OF 9

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2B & 2C	SHEET 237 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0324\S51-0324w_TS2BC.dgn PLOT DATE : 25-SEP-2019 13:43 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

IH-94 EB OFF RAMP

IH-94 EB ON RAMP

STH 20

STH 20

R/W

R/W

R/W

R/W

SPEED LIMIT = 45 MPH

SPEED LIMIT = 45 MPH

FLAG

RIPRAP

WP1

WP2

WP3

WP4

WP5

WP6

OH

MS98

MS98

MS98

MS98

289

290

291

292

293

294

295

296

TRAFFIC CONTROL SIGNAL
IH-94 EB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 6 OF 9

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3A, 3B & 3C	SHEET 238	E

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

IH-94 EB OFF RAMP

FLAG

R/W

WP6

WP1

WP2

WP3

WP4

WP5

SPEED LIMIT = 45 MPH

STH 20

MS98

MS298

289 290 291 293 294 295 298

IH-94 EB ION RAMP

TRAFFIC CONTROL SIGNAL
IH-94 EB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

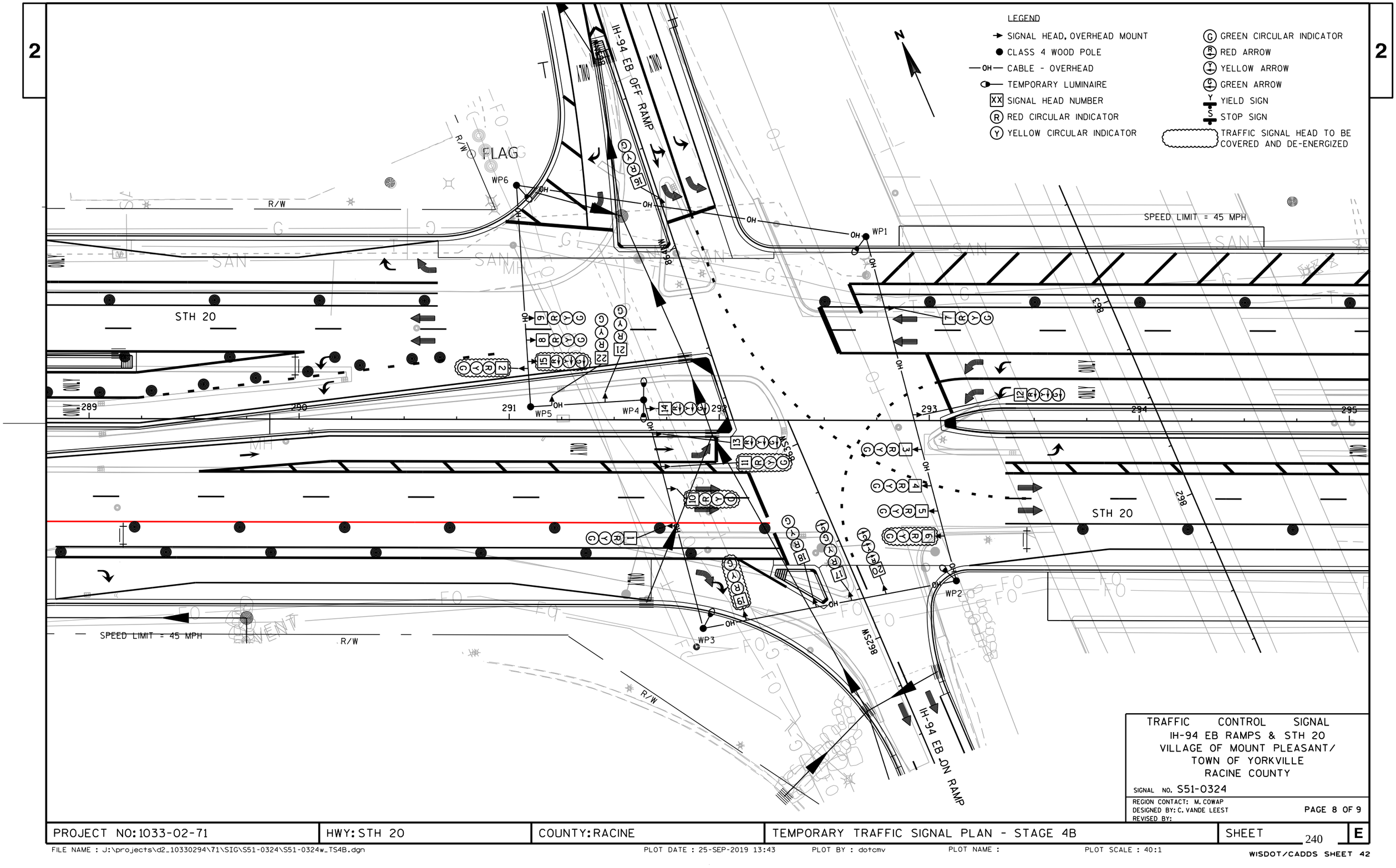
SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 7 OF 9

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4A	SHEET 239	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0324\S51-0324w_TS4A.dgn PLOT DATE : 25-SEP-2019 13:43 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1



TRAFFIC CONTROL SIGNAL
IH-94 EB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

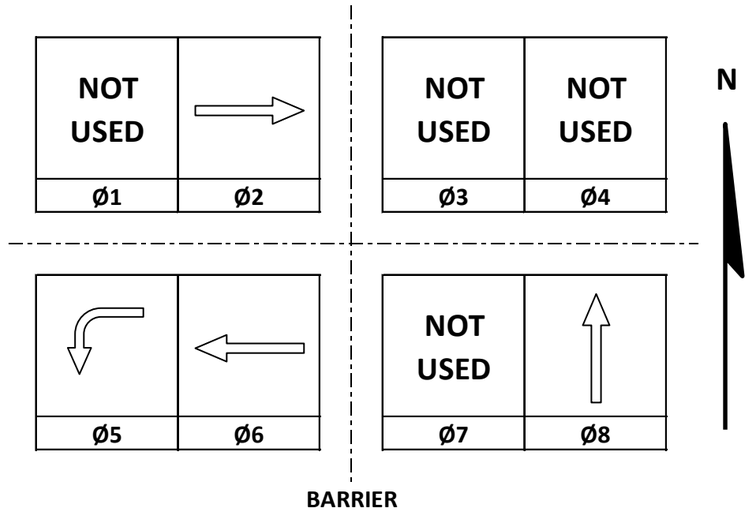
PAGE 8 OF 9

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4B	SHEET 240	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0324\S51-0324w_TS4B.dgn PLOT DATE : 25-SEP-2019 13:43 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1		
Ø2	7,8,9,10,11	R
Ø3		
Ø4		
Ø5	12,13,14,15	R ←
Ø6	1,2,3,4,5,6	R
Ø7		
Ø8	16,17,18,19,20,21,22	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLA		
OLB		
OLC		
OLD		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MIN	X
3				
4				
5		2		X
6	X	2	MIN	X
7				
8				X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

GENERAL NOTES:

1. THIS SEQUENCE SHEET SHALL BE FOR THE EB RAMPS AT THE IH 94 INTERCHANGE WITH STH 20

IH 94 EB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT / TOWN OF YORKVILLE
RACINE COUNTY
SIGNAL NO: T51-0324A CABINET TYPE: TS1
CONTROLLER TYPE: ECONOLITE
DATE: OCTOBER 2019 PAGE NUMBER: 9 OF 9

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET & HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
4. TEMPORARY DETECTORS SHALL BE MOUNTED AT THE HEIGHT RECOMMENDED BY THE MANUFACTURER IN THE SPECIFICATIONS.
5. WISDOT ELECTRICAL (414-266-1170) SHALL BE NOTIFIED 5 WORKING DAYS BEFORE SWITCH TO TEMPORARY TRAFFIC SIGNALS.

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- WOOD POST
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y)(Y) YELLOW ARROW
- (G)(G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

IH-94 WB ON RAMP

IH-94 WB OFF RAMP

STH 20

SPEED LIMIT = 45 MPH

R/W

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

863NE 862NE 861SE 860SE

863 298 294 295 296 297 298 299

6. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
7. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
8. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POLE OR POST.
9. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
10. WOOD POLES LONGER THAN 45-FEET MAY BE NECESSARY DUE TO ELEVATION DIFFERENCES.

SUMMARY OF SELECTED ITEM FOR INFORMATION ONLY

QUANTITY	DESCRIPTION
8 EA	WOOD POLES, CLASS 4
4 EA	WOOD POST OR SKID TYPE TEMPORARY
975 LF	SPAN WIRE
8 EA	LIGHTING (250W OR LED-C)
23 EA	SIGNAL HEADS

TRAFFIC CONTROL SIGNAL
IH-94 WB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/ TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 1 OF 9

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION	SHEET 242 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0324\S51-0324e_TSPre.dgn PLOT DATE : 17-OCT-2019 13:36 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- WOOD POST
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

IH-94 WB ON RAMP

IH-94 WB OFF RAMP

STH 20

SPEED LIMIT = 45 MPH

R/W

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

863NE 863 862 861SE 860SE

294 295 296 297 298 299

TRAFFIC CONTROL SIGNAL
IH-94 WB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 2 OF 9

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A	SHEET 243 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0324\S51-0324e_TS1A.dgn PLOT DATE : 17-OCT-2019 13:37 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- WOOD POST
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

IH-94 WB ON RAMP

863NE

862NE

R/W

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

OH HO

SPEED LIMIT = 45 MPH

STH 20

863

861SE

860SE

IH-94 WB OFF RAMP

294 295 296 297 298 299

SAN G T

FO

TRAFFIC CONTROL SIGNAL
IH-94 WB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 3 OF 9

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B	SHEET 244	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0324\S51-0324e_TS1B.dgn PLOT DATE : 17-OCT-2019 13:37 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- WOOD POST
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

OH

863NE

IH-94 WB ON RAMP

R/W

863

294 295 296 297 298 299

SPEED LIMIT = 45 MPH

STH 20

298

861SE

860SE

IH-94 WB OFF RAMP

SPEED LIMIT = 45 MPH

STH 20

R/W

R/W

R/W

TRAFFIC CONTROL SIGNAL
IH-94 WB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 4 OF 9

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A, 2B & 2C	SHEET	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0324\S51-0324e_TS2ABC.dgn PLOT DATE : 17-OCT-2019 13:37 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- WOOD POST
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

IH-94 WB ON RAMP

IH-94 WB OFF RAMP

STH 20

R/W

SPEED LIMIT = 45 MPH

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

863NE 864NE 861SE 860SE

294 295 296 297 298 299

298

OH

TRAFFIC CONTROL SIGNAL
IH-94 WB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 5 OF 9

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3A	SHEET 246	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0324\S51-0324e_TS3A.dgn PLOT DATE : 17-OCT-2019 13:37 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- WOOD POST
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y)(Y) YELLOW ARROW
- (G)(G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

STH 20

IH-94 WB ON RAMP

IH-94 WB OFF RAMP

863NE

864NE

862

861SE

860SE

R/W

SPEED LIMIT = 45 MPH

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

294 295 296 297 298 299

TRAFFIC CONTROL SIGNAL
IH-94 WB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 6 OF 9

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3B & 3C	SHEET 247	E

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- WOOD POST
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

R/W

SPEED LIMIT = 45 MPH

STH 20

IH-94 WB ON RAMP

IH-94 WB OFF RAMP

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9 WP10 WP11 WP12

863NE 862NE 861SE 860SE

294 295 296 297 298 299

SPEED LIMIT = 45 MPH

TRAFFIC CONTROL SIGNAL
IH-94 WB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 7 OF 9

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4A	SHEET 248 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0324\S51-0324e_TS4A.dgn PLOT DATE : 17-OCT-2019 13:37 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- WOOD POST
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

R/W

SPEED LIMIT = 45 MPH

STH 20

IH-94 WB ON RAMP

IH-94 WB OFF RAMP

863NE

862NE

861SE

860SE

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9 WP10 WP11 WP12

294 295 296 297 298 299

SPEED LIMIT = 45 MPH

R/W

TRAFFIC CONTROL SIGNAL
IH-94 WB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

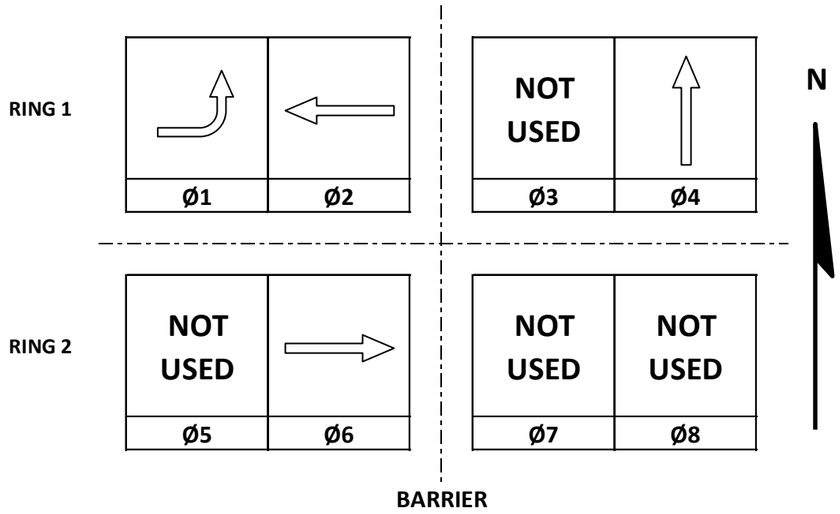
REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 8 OF 9

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4B	SHEET 249 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0324\S51-0324e_TS4B.dgn PLOT DATE : 17-OCT-2019 13:37 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R ←
Ø2	11,13,14	R
Ø3		
Ø4	19,20,21,22,23	R
Ø5		
Ø6	1,2,3,4,	R
Ø7		
Ø8		
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLA		
OLB		
OLC		
OLD		



GENERAL NOTES:

1. THIS SEQUENCE SHEET SHALL BE FOR THE WB RAMPS AT THE IH 94 INTERCHANGE WITH STH 20

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3				
4				X
5				
6	X	2	MIN	X
7				
8				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

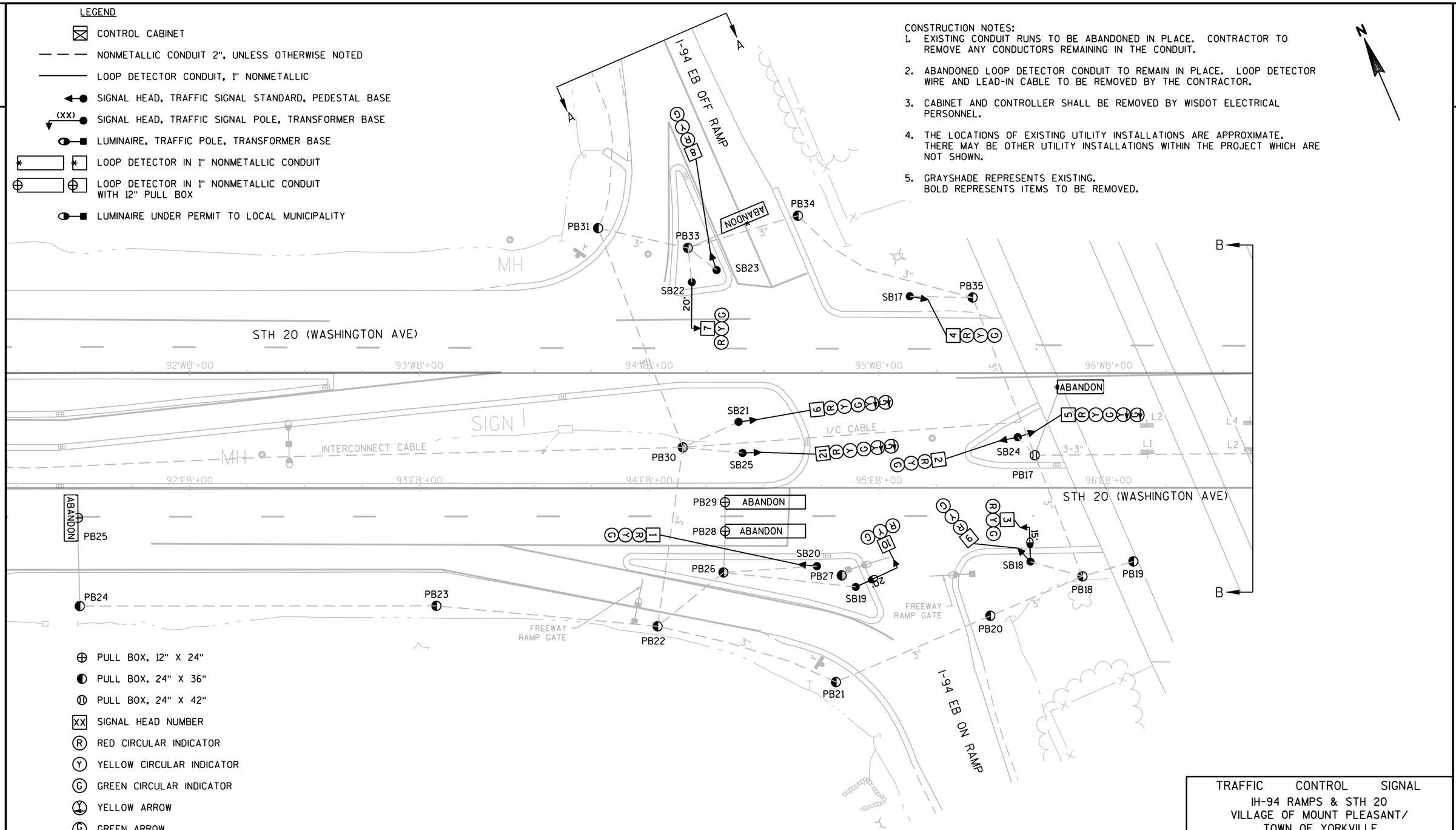
IH 94 WB RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/TOWN OF YORKVILLE
RACINE COUNTY
SIGNAL NO: T51-0324B CABINET TYPE: TS1
CONTROLLER TYPE: ECONOLITE
DATE: OCTOBER 2019 PAGE NUMBER: 9 OF 9

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT WITH 12" PULL BOX
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY

CONSTRUCTION NOTES:

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



- PULL BOX, 12" X 24"
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- Y YIELD SIGN

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
IH-94 RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: E. SANTIAGO PEREZ

PAGE 1 OF 3

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 251	E

FILE NAME : J:\PROJECTS\D2_10330294\71\SIG\S51-0324\S51-0324_REM.DWG
LAYOUT NAME - S51-0324_REM_PG1
PLOT DATE : 3/22/2019 7:41 AM
PLOT BY : SANTIAGO PEREZ, EDGAPLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

I-94 WB ON RAMP

INTERCONNECT CABLE

FREEWAY RAMP GATE

FREEWAY RAMP GATE

CB1

PB1

PB2

PB3

PB4

PB5

PB6

PB7

PB8

PB14

PB15

PB16

SB27

SB28

SB30

SB32

SB33

SB34

SB35

B

B

C

C

STH 20 (WASHINGTON AVE)

STH 20 (WASHINGTON AVE)

97'WB'+00

98'WB'+00

99'WB'+00

100'WB'+00

101'WB'+00

102'WB'+00

97'EB'+00

98'EB'+00

99'EB'+00

100'EB'+00

101'EB'+00

102'EB'+00

ABANDON*

ABANDON*

ABANDON*

ABANDON*

ABANDON*

ABANDON*

SIGN

SIGN

I-94 WB OFF RAMP

TRAFFIC CONTROL SIGNAL
IH-94 RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: E. SANTIAGO PEREZ

PAGE 2 OF 3

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 252	E

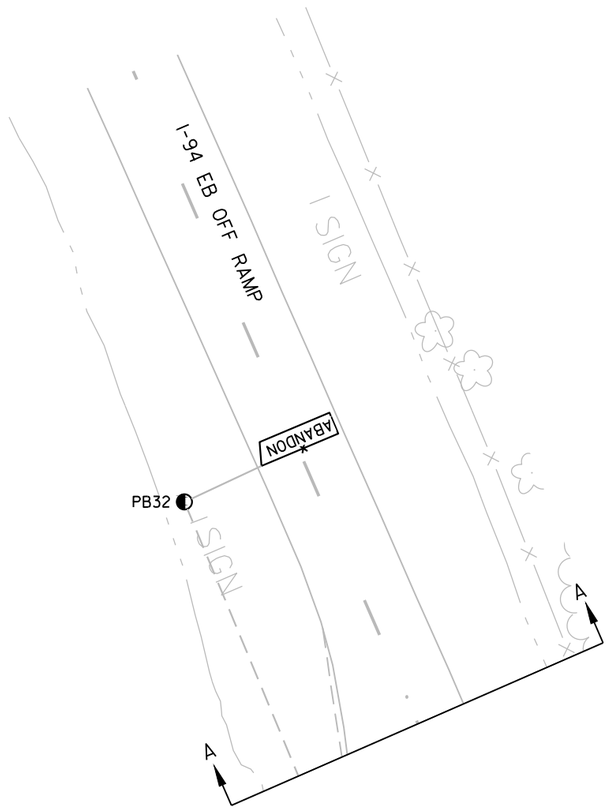
FILE NAME : J:\PROJECTS\D2_10330294\71\SIG\S51-0324\S51-0324_REM.DWG
LAYOUT NAME - S51-0324_REM_PG2

PLOT DATE : 3/22/2019 7:42 AM

PLOT BY : SANTIAGO PEREZ, EDGAPLOT NAME :

PLOT SCALE : 1 IN:40 FT

2



TRAFFIC CONTROL SIGNAL
IH-94 RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: E. SANTIAGO PEREZ

PAGE 3 OF 3

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 253	E

FILE NAME : J:\PROJECTS\D2_10330294\71\SIG\S51-0324\S51-0324_REM.DWG
LAYOUT NAME - S51-0324_REM_PG3
PLOT DATE : 3/22/2019 7:42 AM PLOT BY : SANTIAGO PEREZ, EDGAPLOT NAME :
PLOT SCALE : 1 IN:40 FT

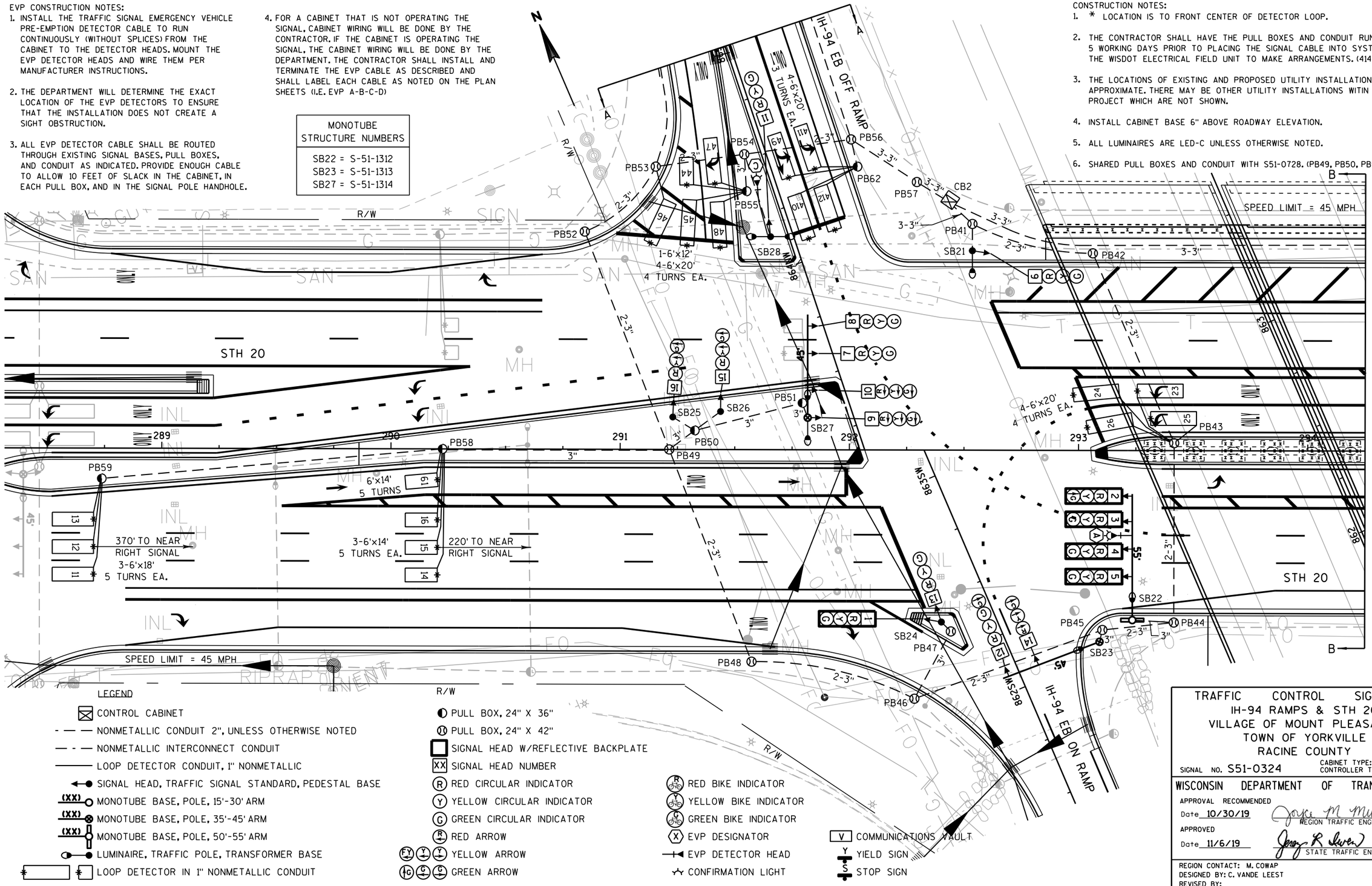
EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.
2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.
3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH EXISTING SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.
4. FOR A CABINET THAT IS NOT OPERATING THE SIGNAL, CABINET WIRING WILL BE DONE BY THE CONTRACTOR. IF THE CABINET IS OPERATING THE SIGNAL, THE CABINET WIRING WILL BE DONE BY THE DEPARTMENT. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED AND SHALL LABEL EACH CABLE AS NOTED ON THE PLAN SHEETS (I.E. EVP A-B-C-D)

MONOTUBE STRUCTURE NUMBERS
SB22 = S-51-1312
SB23 = S-51-1313
SB27 = S-51-1314

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING THE SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
6. SHARED PULL BOXES AND CONDUIT WITH S51-0728. (PB49, PB50, PB51, PB52)



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- (XX) MONOTUBE BASE, POLE, 50'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

R/W

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- SIGNAL HEAD W/REFLECTIVE BACKPLATE
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y Y YELLOW ARROW
- FG G G GREEN ARROW

- R RED BIKE INDICATOR
- Y YELLOW BIKE INDICATOR
- G GREEN BIKE INDICATOR
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- V COMMUNICATIONS VAULT
- Y YIELD SIGN
- S STOP SIGN

TRAFFIC CONTROL SIGNAL
IH-94 RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324 — CABINET TYPE: TS2-E — CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 10/30/19 — Joyce M Murphy — REGION TRAFFIC ENGINEER

APPROVED
Date 11/6/19 — Jerry R Stevens — STATE TRAFFIC ENGINEER

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 1 OF 4

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 254 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0324\S51-0324_pg1.dgn — PLOT DATE : 27-NOV-2019 09:47 — PLOT BY : dotcmv — PLOT NAME : — PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

MONOTUBE STRUCTURE NUMBERS
SB1 = S-51-1309
SB6 = S-51-1310
SB12 = S-51-1311

IH-94 WB ON RAMP

863NE

862NE

STH 20

SPEED LIMIT = 45 MPH

SIGN

R/W

220' TO NEAR RIGHT SIGNAL

6-6'x8' 5 TURNS EA.

2-6'x20' 3 TURNS EA.

4-6'x20' 3 TURNS EA.

4-6'x20' 3 TURNS EA.

ONLY

IH-94 WB OFF RAMP

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9 PB10 PB11 PB12 PB13 PB14 PB15 PB16 PB17 PB18 PB19 PB20

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8 SB9 SB10 SB11 SB12 SB13

CB1

3-3" 2-3" 3"

TRAFFIC CONTROL SIGNAL
IH-94 RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

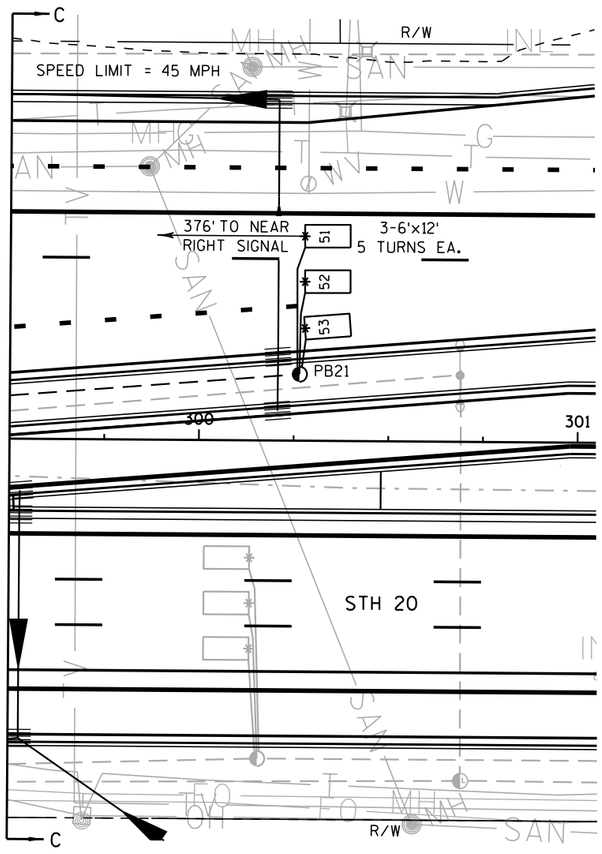
REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

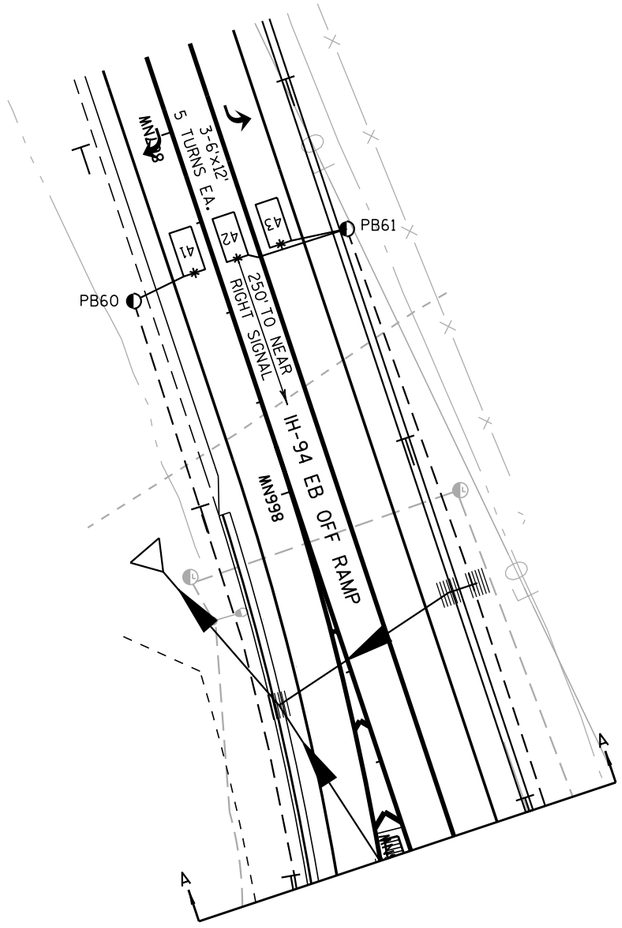
PAGE 2 OF 4

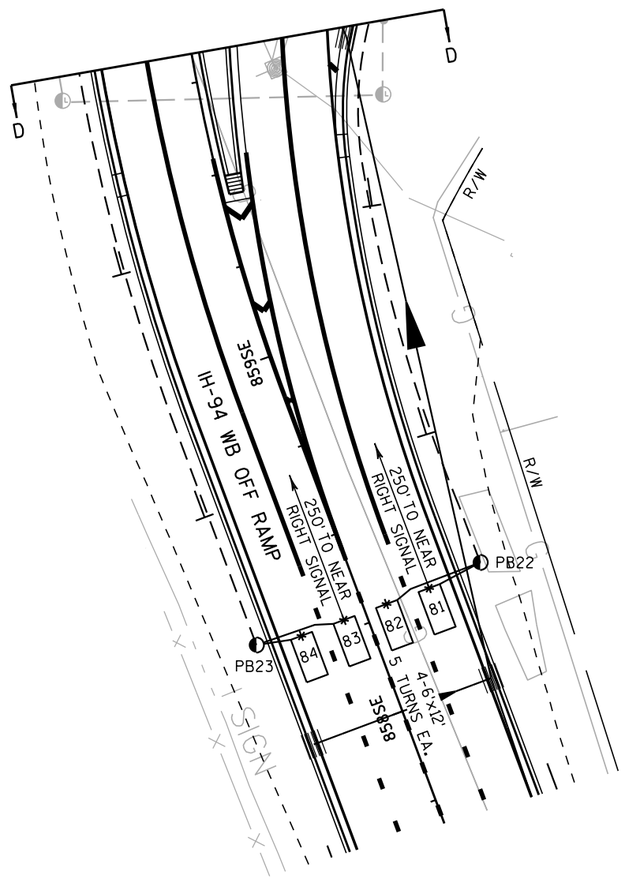
PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 255 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0324\S51-0324_pg2.dgn PLOT DATE : 27-NOV-2019 09:47 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42







TRAFFIC CONTROL SIGNAL
IH-94 RAMPS & STH 20
VILLAGE OF MOUNT PLEASANT/
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0324

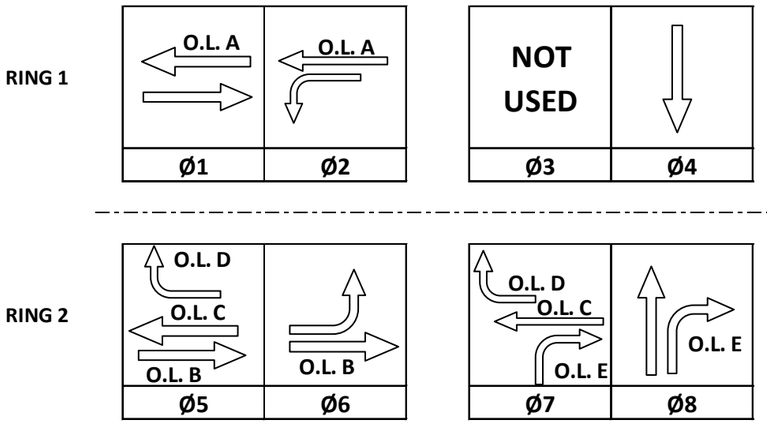
REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 3 OF 4

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 256	E

	HEAD NUMBERS	FLASH
Ø1	1,2,3,4,5,6	R ←
Ø2	9,10	R
Ø3		
Ø4	11,12,13,14,15,16	R
Ø5	24,25,26,27,28	R ←
Ø6	21,22,23	R
Ø7		
Ø8	31,32,33,34,35,36	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLA	6,7,8,9,24,25,26,27,28,29	
OLB	1,2,3,4,5,17,18,19,20	
OLC	6,7,8	
OLD	29,30	
OLE	35,36	
OLF	37	

** WEST RAMP INTERSECTION



** EAST RAMP INTERSECTION

** RING 1 SHALL CONTROL THE WEST RAMP
** RING 2 SHALL CONTROL THE EAST RAMP

N

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1	X		MIN	X
2				X
3				
4				X
5	X		MIN	X
6				X
7				X
8				X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	O.L. A, O.L. C, O.L. B	O.L. A, O.L. E, O.L. B	O.L. B	O.L. A, O.L. F
PHASE	1+6	5+2	4+6	8+2

AFTER PREEMPTION SEQUENCE 1+6, CONTROLLER SHALL RETURN TO PHAS
AFTER PREEMPTION SEQUENCE 5+2, CONTROLLER SHALL RETURN TO PHAS

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
SIGNAL SYSTEM NO:	SS- 51-0036

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	X
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	35	33	39	37	43	41	47	45	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	13	15	21	23	25	41	43	45	47	49	411	51	53	55	57	62	81	83	85	87	89	811		PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	1	1	2	2	2	4	4	4	4	4	4	5	5	5	5	6	8	8	8	8	8	8		CALLED PHASE
CALL OPTION	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X			X	X	X	X		CALL OPTION
DELAY TIME									X	X										X	X				DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		EXTENTION OPTION
EXTEND TIME							X	X										X	X						EXTEND TIME
USE ADDED INITIAL	X	X	X										X	X	X	X									USE ADDED INITIAL
CROSS SWITCH PHASE																									CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	36	34	40	38	44	42	48	46	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	12	14	16	22	24	26	42	44	46	48	410	412	52	54	56	61	63	82	84	86	88	810	812		PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	1	1	2	2	2	4	4	4	4	4	4	5	5	5	6	6	8	8	8	8	8	8		CALLED PHASE
CALL OPTION	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X	X	X	X		CALL OPTION
DELAY TIME								X	X	X										X	X				DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		EXTENTION OPTION
EXTEND TIME							X											X	X						EXTEND TIME
USE ADDED INITIAL	X	X	X										X	X	X										USE ADDED INITIAL
CROSS SWITCH PHASE																									CROSS SWITCH PHASE

GENERAL NOTES:

1. OVERLAP F WILL BE USED FOR THE WB BICYCLE CROSSING AT THE NB RAMPS

IH 94 RAMPS & STH 20
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO: S51-0324 CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE
DATE: SEPTEMBER 2019 PAGE NUMBER: 4 OF 4

FILE NAME: \\dotwkefile1p\N3PUBLIC\SPO\Operations\Signals\Databases\Signal Intersection Files\S51-0324\PLANS\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: 9/25/2019 PLOT NAME: TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT BY: M COWAP PLOT SCALE: 1:1

2

PROJECT ID:	1033-02-71
INTERSECTION:	IH-94 RAMPS & STH 20

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

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	FUTURE APS
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	12	32	RED	ORG	GRN			GRN/BLK					
		34				RED/BLK	ORG/BLK	GRN/BLK					
SB2	7	33	RED	ORG	GRN								
SB3	12	22				RED	ORG	GRN					
		24	RED/BLK	ORG/BLK	GRN/BLK								
		37	BLK	BLK/WHT	BLU								
SB4	7	29	RED				ORG	GRN					
SB5	7	30	RED				ORG	GRN					
SB6	12	18	RED	ORG	GRN								
		19	RED	ORG	GRN								
		20	RED	ORG	GRN								
		23				RED/BLK	ORG/BLK	GRN/BLK					
SB7	7	35	RED				ORG	GRN					
SB8	7	36	RED				ORG	GRN					
SB9	7	31	RED	ORG	GRN								
SB10	7	17	RED	ORG	GRN								
SB11	7	21				RED	ORG	GRN					
SB12	7	25	RED	ORG	GRN								
		26	RED	ORG	GRN								
		27	RED	ORG	GRN								
		28	RED	ORG	GRN								
SB13	7	B										WHT/BLK	

CB1 TO	AWG12 FEEDER # OF CONDUCTORS	WHITE GROUND	GREEN BONDING	
CB2 (SPLICE)	15 (CABLE 1)	AWG 8	AWG 8	SEE PAGE 3 FOR CB2 (SPLICE CABINET) CABLING
CB2 (SPLICE)	15 (CABLE 2)			

Lighting UF 2-8 AWG Grounded	
From	To
CB1	CB2

*Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.
*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.
*Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.

2

Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB13
SB13	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB2	SB1
PB3	SB2
PB4	SB1
PB5	SB13
PB6	SB13
PB7	SB6
PB8	SB6
PB9	SB9
PB10	SB9
PB11	SB9
PB12	SB9
PB13	SB10
PB14	SB10
PB15	SB10
PB16	SB12
PB17	SB12
PB18	CB1

Lighting UF 2-10 AWG Grounded	
From	To
CB1	SB1
SB1	SB6
CB1	SB12
SB12	SB9

Emergency Vehicle Preemption	
From	To
CB1	SB22 (HEAD A)
CB1	SB12 (HEAD B)
CB1	SB28 (HEAD C)
CB1	SB9 (HEAD D)

Confirmation Beacon Cable Traffic Signal 3-14 AWG	
From	To
CB1	SB22 (HEAD A)
CB1	SB12 (HEAD B)
CB1	SB28 (HEAD C)
CB1	SB9 (HEAD D)

PROJECT ID:	1033-02-71
INTERSECTION:	IH-94 RAMPS & STH 20

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

CB2 TO	AWG12 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	FUTURE APS
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB21	7	6	RED	ORG	GRN								
SB22	7	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
		5	RED	ORG	GRN								
SB23	12	12	RED	ORG	GRN			GRN/BLK					
		14				RED/BLK	ORG/BLK	GRN/BLK					
SB24	12	1	RED	ORG	GRN								
		13	RED/BLK	ORG/BLK	GRN/BLK								
SB25	7	16	RED				ORG	GRN					
SB26	7	15	RED				ORG	GRN					
SB27	12	7	RED	ORG	GRN								
		8	RED	ORG	GRN								
		9				RED/BLK	ORG/BLK	GRN/BLK					
		10				RED	ORG	GRN					
SB28	7	11	RED	ORG	GRN								

***Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications**
***Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.**
***At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.**
***Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.**

2

Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB2	SB21
SB21	SB22
SB22	SB23
SB23	SB24
SB24	SB25
SB25	SB26
SB26	SB27
SB27	SB28
SB28	CB2

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB41	CB2
PB42	CB2
PB43	SB22
PB44	SB22
PB45	SB23
PB46	SB24
PB47	SB24
PB48	SB24
PB49	SB27
PB50	SB27
PB51	SB27
PB52	SB28
PB53	SB28
PB54	SB28
PB56	CB2
PB57	CB2

Lighting UF 2-10 AWG Grounded	
From	To
CB2	SB21
SB21	SB22
SB22	SB23
CB2	SB28
SB28	SB27

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET & HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
4. TEMPORARY DETECTORS SHALL BE MOUNTED AT THE HEIGHT RECOMMENDED BY THE MANUFACTURER IN THE SPECIFICATIONS.
5. WISDOT ELECTRICAL (414-266-1170) SHALL BE NOTIFIED 5 WORKING DAYS BEFORE SWITCH TO TEMPORARY TRAFFIC SIGNALS.

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

STH 20

E. FRONTAGE RD.

SPEED LIMIT = 35 MPH

SPEED LIMIT = 45 MPH

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9

R/W

OH

5860 5859 3858

300 301 302 303 304 305 306

SPAN WIRE BETWEEN WP2 AND WP7 TO BE USED FOR HEADS 25, 26, 28, 29, 30 AND 33 DURING STAGES 2A, 2B, 2C AND FOR HEADS 24, 27, 31, 32, 34 AND 35 DURING STAGES 3A, 3B AND 3C.

6. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
7. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
8. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POLE OR POST.
9. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
10. WOOD POLES LONGER THAN 45-FEET MAY BE NECESSARY DUE TO ELEVATION DIFFERENCES.

SUMMARY OF SELECTED ITEM FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
9 EA	WOOD POLES, CLASS 4
1020 LF	SPAN WIRE
8 EA	LIGHTING (250W OR LED-C)
35 EA	SIGNAL HEADS

TRAFFIC CONTROL SIGNAL
STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0727

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 1 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION	SHEET 262 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0727\S51-0727_TSPre.dgn PLOT DATE : 11-OCT-2019 09:46 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

STH 20

E. FRONTAGE RD.

SPEED LIMIT = 35 MPH

SPEED LIMIT = 45 MPH

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9

R/W

OH

5860 5859 3858 3858

300 301 302 303 304 305 306

SPAN WIRE BETWEEN WP2 AND WP7 TO BE USED FOR HEADS 25, 26, 28, 29, 30 AND 33 DURING STAGES 2A, 2B, 2C AND FOR HEADS 24, 27, 31, 32, 34 AND 35 DURING STAGES 3A, 3B AND 3C.

TRAFFIC CONTROL SIGNAL
STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

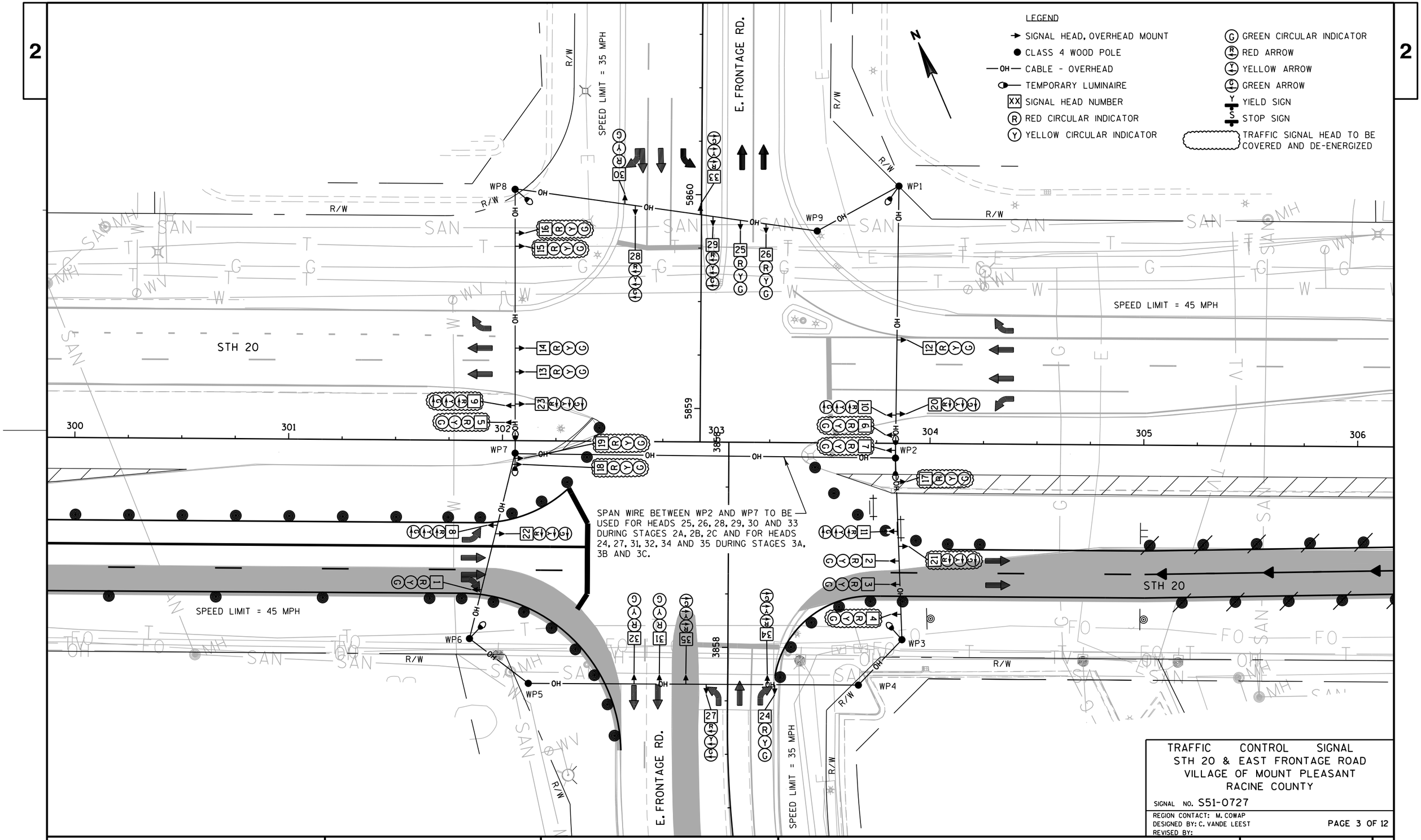
SIGNAL NO. S51-0727

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 2 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A	SHEET 263 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0727\S51-0727_TS1A.dgn PLOT DATE : 11-OCT-2019 09:46 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1



TRAFFIC CONTROL SIGNAL
STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0727

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 3 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B	SHEET 264	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0727\S51-0727_TS1B.dgn PLOT DATE : 11-OCT-2019 09:46 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

2

SPAN WIRE BETWEEN WP8 AND WP9 TO BE USED FOR HEADS 25, 26, 28, 29, 30 AND 33 DURING STAGES 1A, 1B, 3A, 3B, 3C, 4A AND 4B.

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

E. FRONTAGE RD.

SPEED LIMIT = 35 MPH

SPEED LIMIT = 45 MPH

STH 20

R/W

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9

300 301 302 303 304 305 306

5860 3858 3859 3860

TRAFFIC CONTROL SIGNAL
STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0727

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 4 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A	SHEET 265 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0727\S51-0727_TS2A.dgn PLOT DATE : 11-OCT-2019 09:46 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

SPAN WIRE BETWEEN WP8 AND WP9 TO BE USED FOR HEADS 25, 26, 28, 29, 30 AND 33 DURING STAGES 1A, 1B, 3A, 3B, 3C, 4A AND 4B.

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

E. FRONTAGE RD.

SPEED LIMIT = 35 MPH

R/W

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9

OH

5860 5859 3859 3858

300 301 302 303 304 305 306

STH 20

SPEED LIMIT = 45 MPH

SPEED LIMIT = 35 MPH

E. FRONTAGE RD.

TRAFFIC CONTROL SIGNAL
STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0727

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 5 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2B	SHEET 266 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0727\S51-0727_TS2B.dgn PLOT DATE : 11-OCT-2019 09:46 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

SPAN WIRE BETWEEN WP8 AND WP9 TO BE USED FOR HEADS 25, 26, 28, 29, 30 AND 33 DURING STAGES 1A, 1B, 3A, 3B, 3C, 4A AND 4B.

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

E. FRONTAGE RD.

SPEED LIMIT = 35 MPH

5860

5859

3858

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9

STH 20

SPEED LIMIT = 45 MPH

SPEED LIMIT = 35 MPH

300 301 302 303 304 305 306

R/W

OH

SAN

T

G

W

FO

TV

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2C	SHEET	E

TRAFFIC CONTROL SIGNAL
STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0727

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 6 OF 12

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0727\S51-0727_TS2C.dgn PLOT DATE : 11-OCT-2019 09:46 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

STH 20

STH 20

E. FRONTAGE RD.

E. FRONTAGE RD.

SPEED LIMIT = 35 MPH

SPEED LIMIT = 45 MPH

SPEED LIMIT = 45 MPH

SPEED LIMIT = 35 MPH

R/W

WP1

WP2

WP3

WP4

WP5

WP6

WP7

WP8

WP9

OH

3858

5859

300 301 302 303 304 305 306

SPAN WIRE BETWEEN WP4 AND WP5 TO BE USED FOR HEADS 24, 27, 31, 32, 34 AND 35 DURING STAGES 1A, 1B, 2A, 2B, 2C, 4A AND 4B.

TRAFFIC CONTROL SIGNAL
STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0727

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 7 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3A	SHEET 268	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0727\S51-0727_TS3A.dgn PLOT DATE : 11-OCT-2019 09:46 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

STH 20

E. FRONTAGE RD.

SPEED LIMIT = 35 MPH

SPEED LIMIT = 45 MPH

R/W

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9

OH

5859 3858

300 301 302 303 304 305 306

SPAN WIRE BETWEEN WP4 AND WP5 TO BE USED FOR HEADS 24, 27, 31, 32, 34 AND 35 DURING STAGES 1A, 1B, 2A, 2B, 2C, 4A AND 4B.

TRAFFIC CONTROL SIGNAL
STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0727

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 8 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3B	SHEET 269 E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0727\S51-0727_TS3B.dgn PLOT DATE : 11-OCT-2019 09:47 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

STH 20

E. FRONTAGE RD.

SPEED LIMIT = 35 MPH

SPEED LIMIT = 45 MPH

R/W

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9

3858 3859

300 301 302 303 304 305 306

SPAN WIRE BETWEEN WP4 AND WP5 TO BE USED FOR HEADS 24, 27, 31, 32, 34 AND 35 DURING STAGES 1A, 1B, 2A, 2B, 2C, 4A AND 4B.

TRAFFIC CONTROL SIGNAL
STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0727

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 9 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3C	SHEET 270	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0727\S51-0727_TS3C.dgn PLOT DATE : 11-OCT-2019 09:47 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

E. FRONTAGE RD.

SPEED LIMIT = 35 MPH

SPEED LIMIT = 45 MPH

STH 20

R/W

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9

SPAN WIRE BETWEEN WP2 AND WP7 TO BE USED FOR HEADS 25, 26, 28, 29, 30 AND 33 DURING STAGES 2A, 2B, 2C AND FOR HEADS 24, 27, 31, 32, 34 AND 35 DURING STAGES 3A, 3B AND 3C.

5859 3856 3858

300 301 302 303 304 305 306

TRAFFIC CONTROL SIGNAL
STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0727

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 10 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4A	SHEET 271	E

2

LEGEND

- SIGNAL HEAD, OVERHEAD MOUNT
- CLASS 4 WOOD POLE
- OH — CABLE - OVERHEAD
- TEMPORARY LUMINAIRE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

E. FRONTAGE RD.

SPEED LIMIT = 35 MPH

SPEED LIMIT = 45 MPH

STH 20

R/W

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9

300 301 302 303 304 305 306

3860 3859 3858

SPAN WIRE BETWEEN WP4 AND WP5 TO BE USED FOR HEADS 24, 27, 31, 32, 34 AND 35 DURING STAGES 1A, 1B, 2A, 2B, 2C, 4A AND 4B.

TRAFFIC CONTROL SIGNAL
STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0727

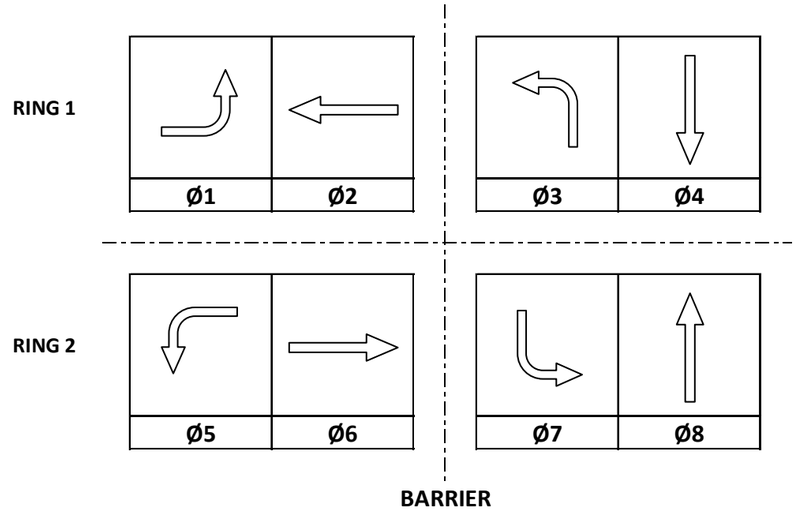
REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 11 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4B	SHEET 272	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0727\S51-0727_TS4B.dgn PLOT DATE : 11-OCT-2019 09:47 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

	HEAD NUMBERS	FLASH
Ø1	8,9,10,11	R
Ø2	12,13,14,15,16,17,18,19	R
Ø3	27,28,29	R
Ø4	30,31,32	R
Ø5	20,21,22,23	R
Ø6	1,2,3,4,5,6,7	R
Ø7	33,34,35	R
Ø8	24,25,26	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLA		
OLB		
OLC		
OLD		





TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	
IN SEPARATE DOT LIGHTING CABINET	

STH 20 & EAST FRONTAGE ROAD

VILLAGE OF MOUNT PLEASANT

RACINE COUNTY

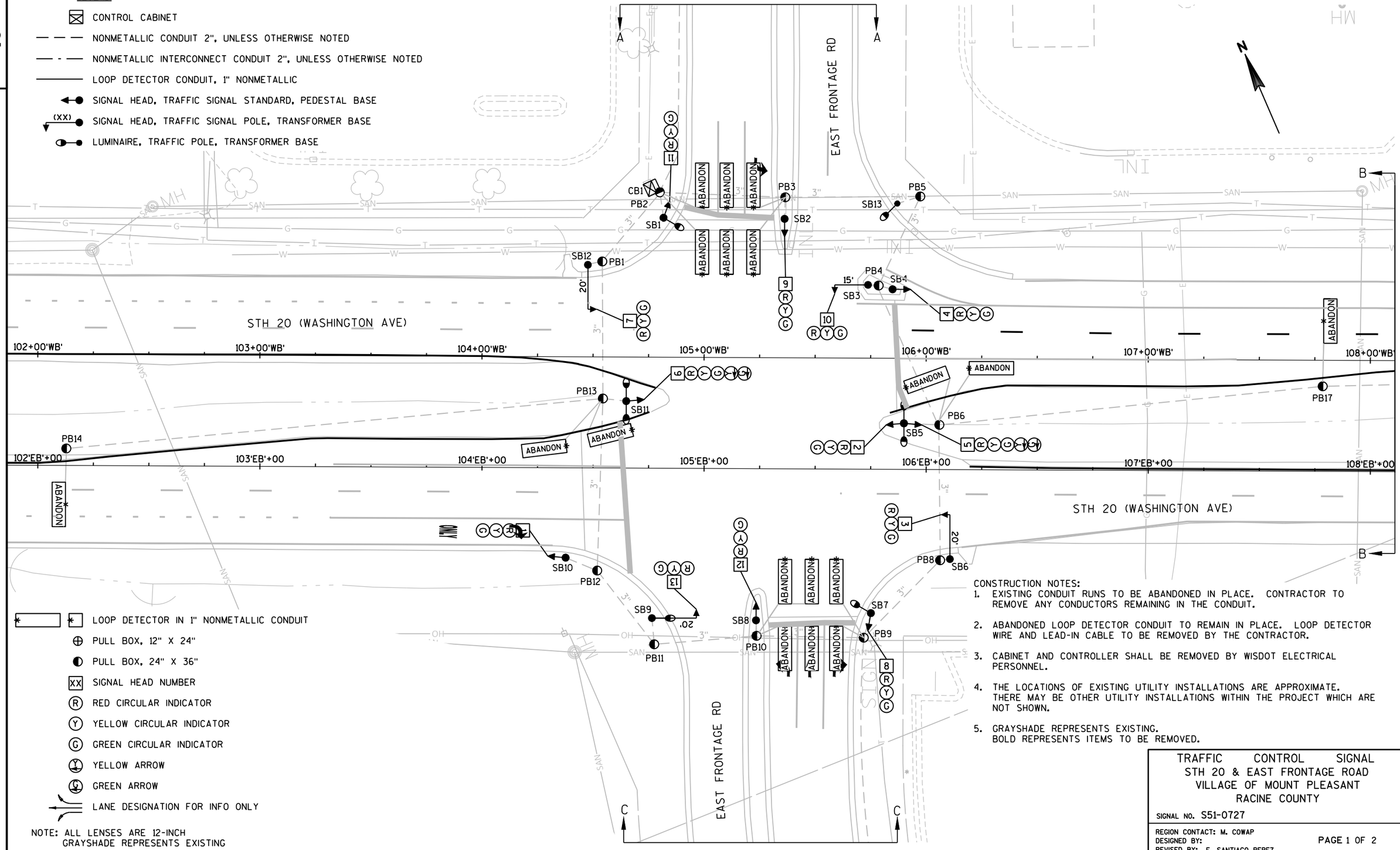
SIGNAL NO: T51-0727 CABINET TYPE: TS1

CONTROLLER TYPE: ECONOLITE

DATE: OCTOBER 2019 PAGE NUMBER: 12 OF 12

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE



- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 12" X 24"
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

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

TRAFFIC CONTROL SIGNAL
STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

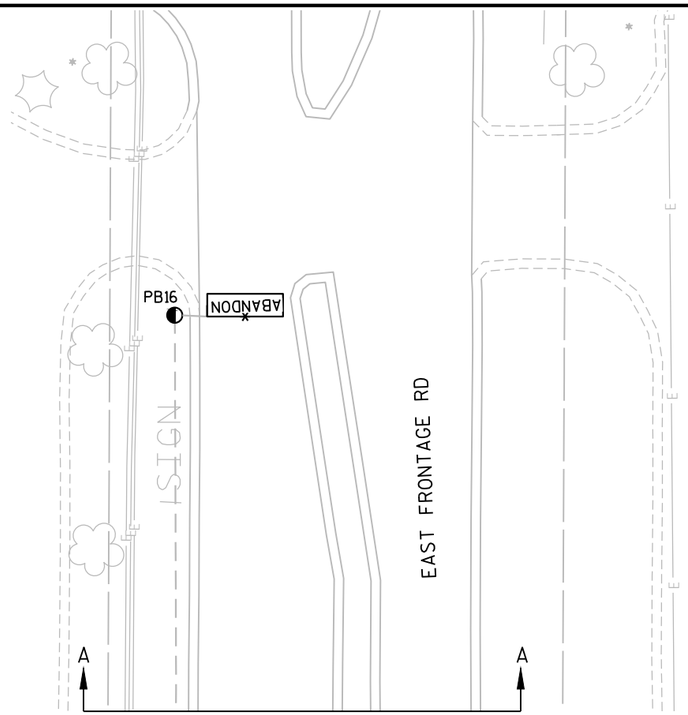
SIGNAL NO. S51-0727

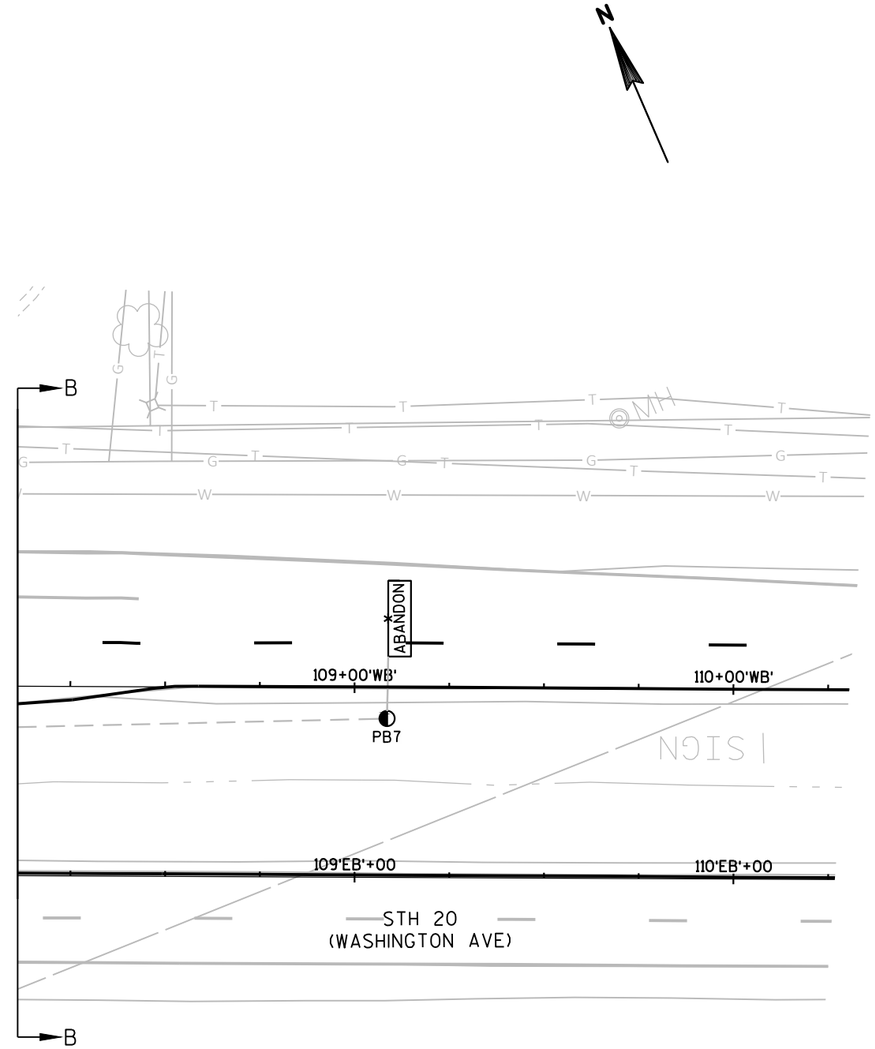
REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: E. SANTIAGO PEREZ

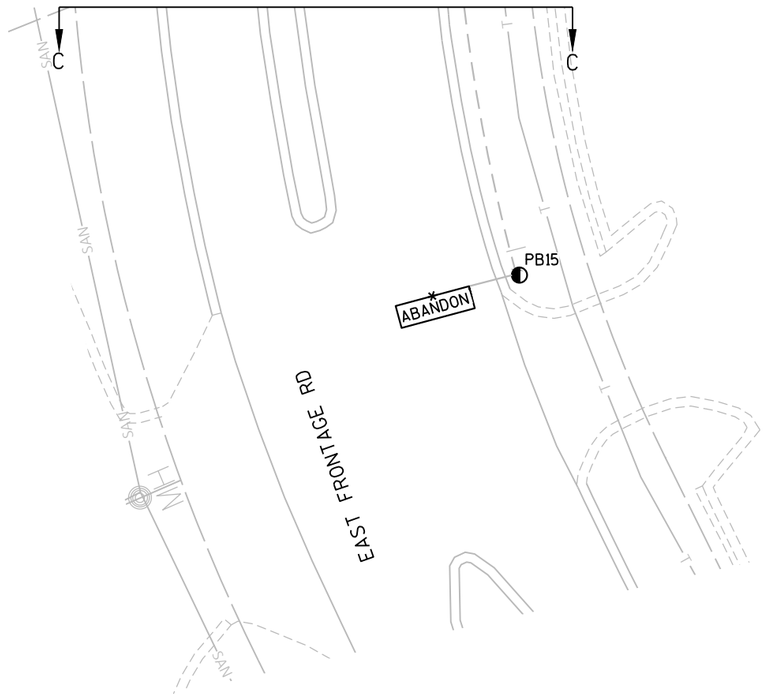
PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 274	E

FILE NAME : J:\PROJECTS\D2_10330294\71\SIG\S51-0727\S51-0727_REM.DWG
LAYOUT NAME - S51-0727_REM_PG1
PLOT DATE : 3/22/2019 8:02 AM PLOT BY : SANTIAGO PEREZ, EDGAPLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2







TRAFFIC CONTROL SIGNAL
STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0727

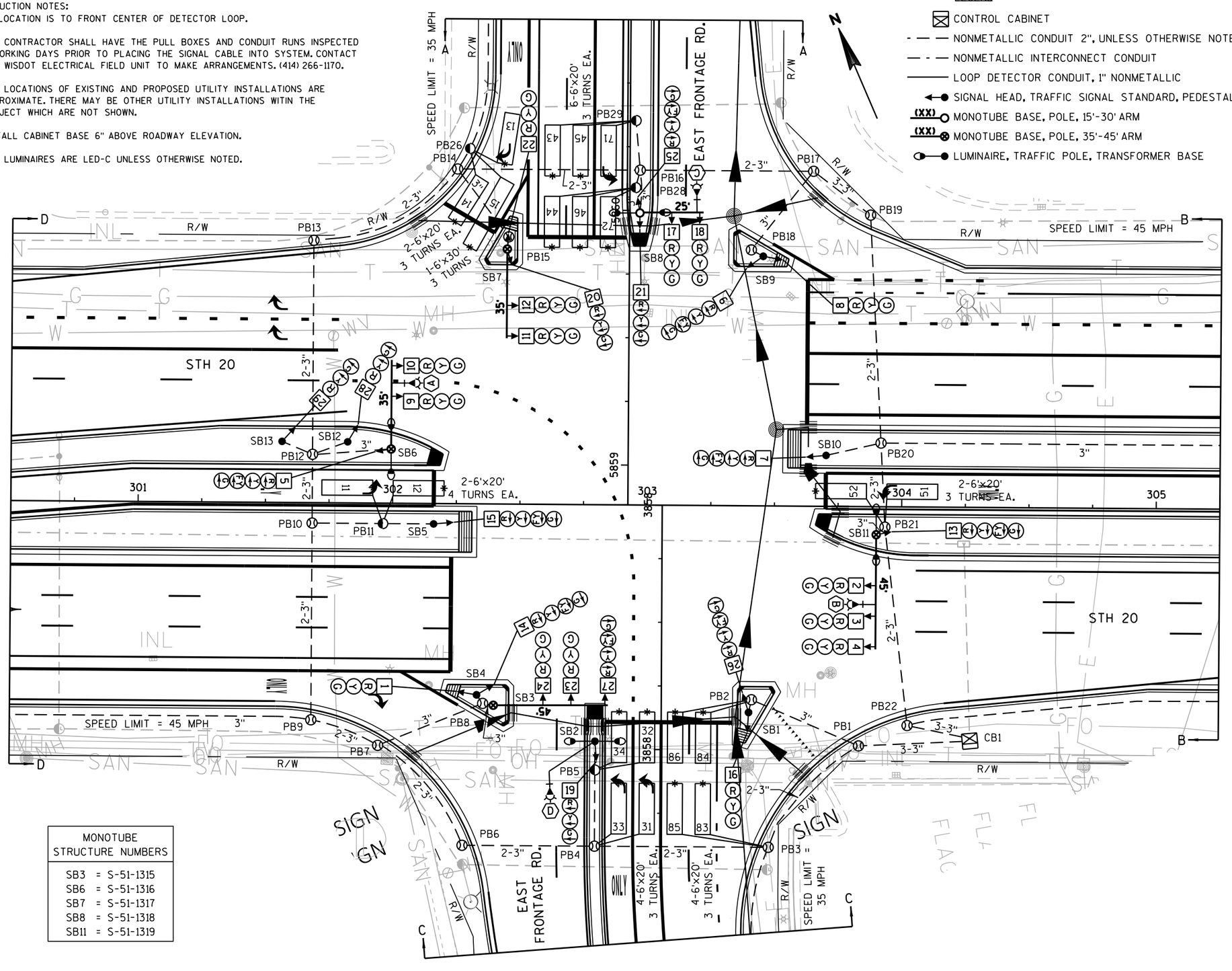
REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: E. SANTIAGO PEREZ

PAGE 2 OF 2

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 275	E

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING THE SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- * LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y Y YELLOW ARROW
- G G GREEN ARROW
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- V COMMUNICATIONS VAULT
- Y YIELD SIGN
- S STOP SIGN

EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.
2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.
3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH EXISTING SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.
4. FOR A CABINET THAT IS NOT OPERATING THE SIGNAL, CABINET WIRING WILL BE DONE BY THE CONTRACTOR. IF THE CABINET IS OPERATING THE SIGNAL, THE CABINET WIRING WILL BE DONE BY THE DEPARTMENT. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED AND SHALL LABEL EACH CABLE AS NOTED ON THE PLAN SHEETS (I.E. EVP A-B-C-D)

MONOTUBE STRUCTURE NUMBERS
SB3 = S-51-1315
SB6 = S-51-1316
SB7 = S-51-1317
SB8 = S-51-1318
SB11 = S-51-1319

TRAFFIC CONTROL SIGNAL

STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0727
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 10/24/19 — Joyce M Murphy, REGION TRAFFIC ENGINEER

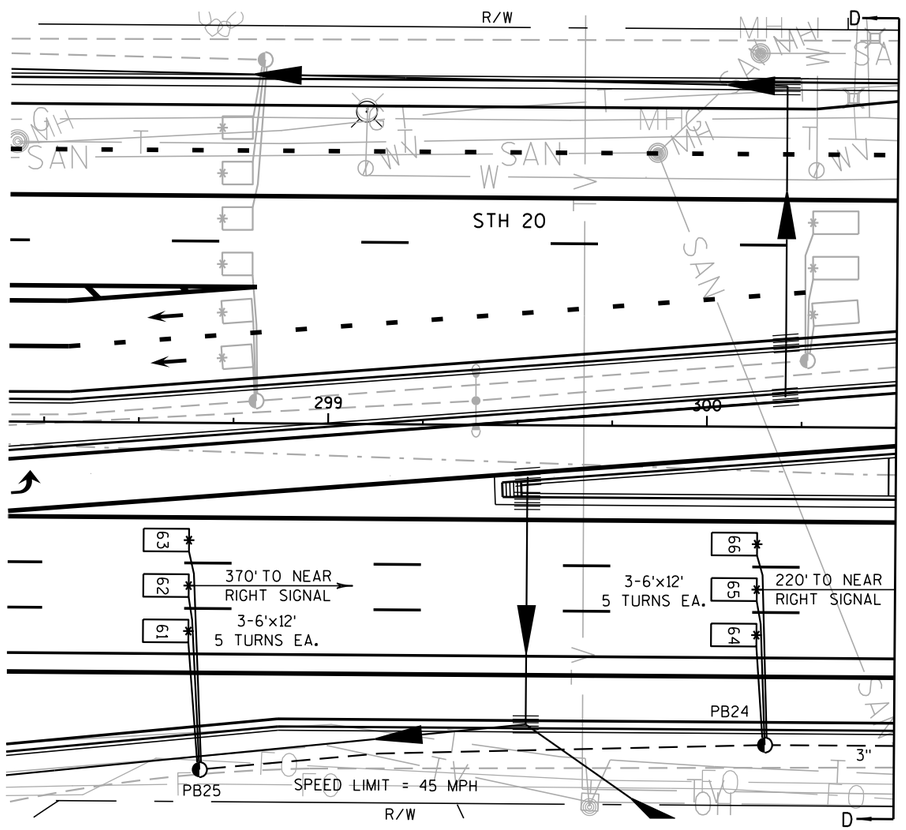
APPROVED
Date 11/6/19 — Jay R Huven, STATE TRAFFIC ENGINEER

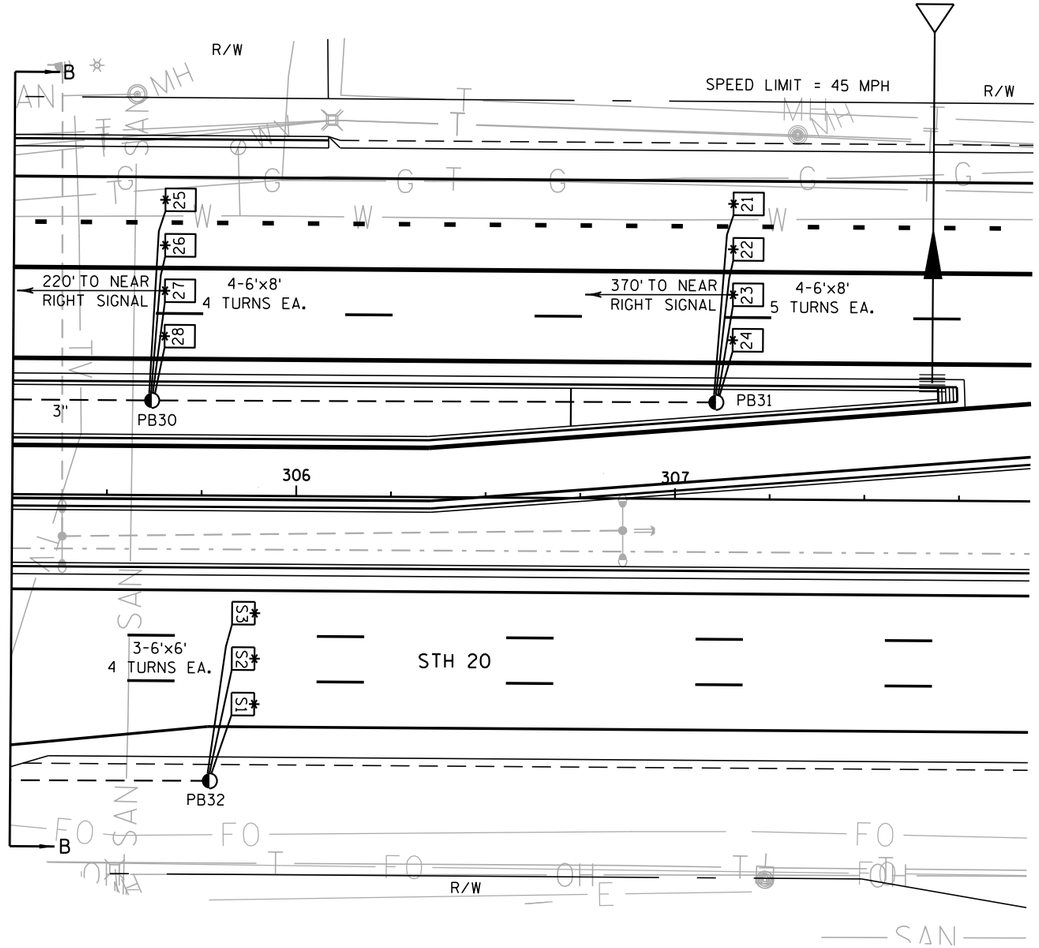
REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 276	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0727\S51-0727_pg1.dgn
PLOT DATE : 02-DEC-2019 08:37
PLOT BY : dotcmv
PLOT NAME :
PLOT SCALE : 40:1
WISDOT/CADDS SHEET 42

2





TRAFFIC CONTROL SIGNAL
STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

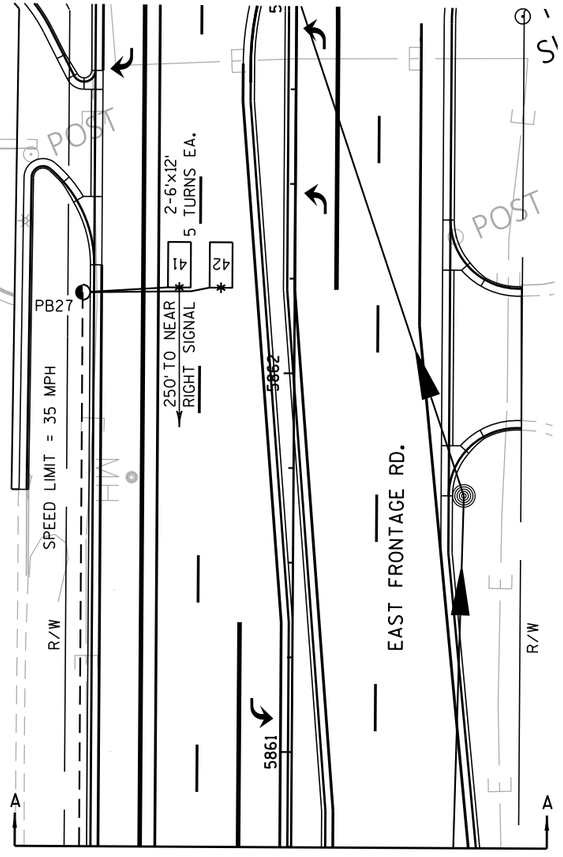
SIGNAL NO. S51-0727

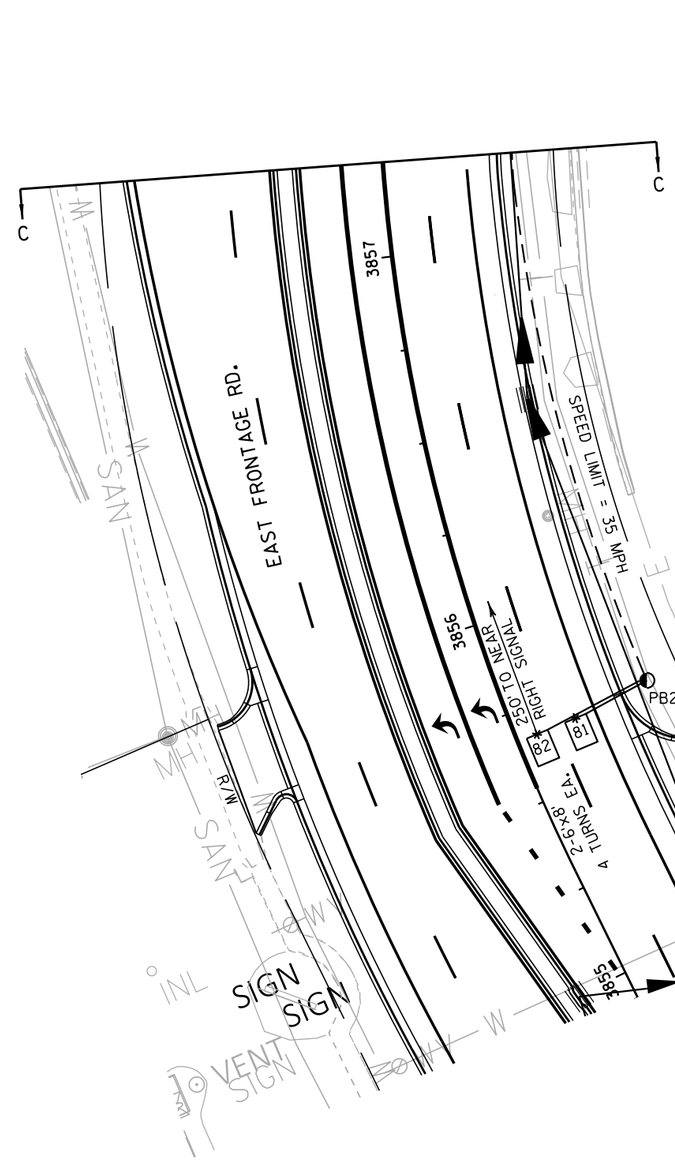
REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 2 OF 4

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 277	E

FILE NAME : J:\projects\d2_10330294\71\SIG\S51-0727\S51-0727_pg2.dgn PLOT DATE : 02-DEC-2019 08:37 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1





TRAFFIC CONTROL SIGNAL
STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

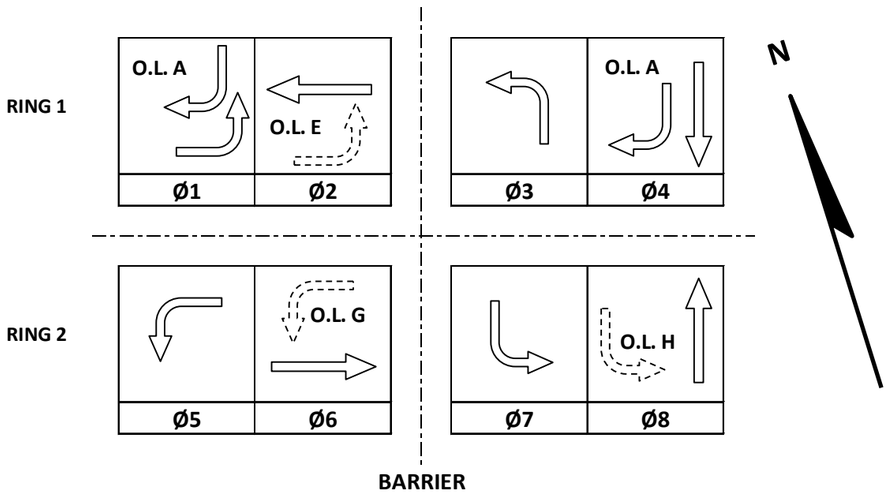
SIGNAL NO. S51-0727

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 3 OF 4

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 278	E

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R ←
Ø2	8,9,10,11,12	R
Ø3	19,20,21	R ←
Ø4	22,23,24	R
Ø5	13,14,15	R ←
Ø6	1,2,3,4	R
Ø7	25,26,27	R ←
Ø8	16,17,18	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLA	28,29	R ⇇
OLE	5,6,7	-
OLF		
OLG	13,14,15	-
OLH	25,26,27	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	↱	↓	↰
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 51-0036

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	X
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	35	33	39	37	43	41	47	45	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	13	15	21	23	25	27	31	33	41	43	45	51	61	63	65	71	81	83	85			S1	S3	PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	1	1	2	2	2	2	3	3	4	4	4	5	6	6	6	7	8	8	8					CALLED PHASE
CALL OPTION	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X		X	X					CALL OPTION
DELAY TIME		X	X																						DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					EXTENTION OPTION
EXTEND TIME										X								X							EXTEND TIME
USE ADDED INITIAL				X	X	X	X							X	X	X									USE ADDED INITIAL
CROSS SWITCH PHASE	2												6				8								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	36	34	40	38	44	42	48	46	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	12	14		22	24	26	28	32	34	42	44	46	52	62	64	66	72	82	84	86			S2		PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	1		2	2	2	2	3	3	4	4	4	5	6	6	6	7	8	8	8					CALLED PHASE
CALL OPTION	X	X		X	X	X	X	X	X		X	X	X	X	X	X	X		X	X					CALL OPTION
DELAY TIME		X																							DELAY TIME
EXTENTION OPTION	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					EXTENTION OPTION
EXTEND TIME										X								X							EXTEND TIME
USE ADDED INITIAL				X	X	X	X							X	X	X									USE ADDED INITIAL
CROSS SWITCH PHASE	2												6				8								CROSS SWITCH PHASE

STH 20 & EAST FRONTAGE ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO: S51-0727 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: SEPTEMBER 2019 PAGE NUMBER: 4 OF 4

FILE NAME: \\dotwkefile1p\N3PUBLIC\SPO\Operations\Signals\Databases\Signal Intersection Files\S51-0727\PLANS\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: 9/17/2019 PLOT NAME: TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT BY: M COWAP PLOT SCALE: 1:1

2

PROJECT ID:	1033-02-71
INTERSECTION:	STH 20 & E FRONTAGE RD

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

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	FUTURE APS
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	12	16	RED	ORG	GRN								
		26				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB2	7	19				RED	ORG	GRN					
SB3	12	23	RED	ORG	GRN								
		24	RED	ORG	GRN								
		27				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB4	12	1	RED	ORG	GRN								
		14				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB5	7	15				RED	ORG	GRN	WHT/BLK				
SB6	12	5				RED	ORG	GRN	WHT/BLK				
		9	RED/BLK	ORG/BLK	GRN/BLK								
		10	RED/BLK	ORG/BLK	GRN/BLK								
SB7	15	11	RED/WHT	BLU/WHT	GRN/WHT								
		12	RED/WHT	BLU/WHT	GRN/WHT								
		20				RED	ORG	GRN					
		22	RED/BLK	ORG/BLK	GRN/BLK								
SB8	15	17	RED	ORG	GRN								
		18	RED	ORG	GRN								
		21				RED/BLK	ORG/BLK	GRN/BLK					
		25				RED/WHT	BLU/WHT	GRN/WHT	BLK/WHT				
SB9	12	6				RED	ORG	GRN	WHT/BLK				
		8	RED/BLK	ORG/BLK	GRN/BLK								
SB10	7	7				RED	ORG	GRN	WHT/BLK				
SB11	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
		13				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB12	7	28	RED				ORG	GRN					
SB13	7	29	RED				ORG	GRN					

*Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.
*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.
*Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	CABLE ROUTING	SHEET: 280	E

FILE NAME : J:\PROJECTS\d2_10330294\71\SIG\S51-0727\S51-0727_cr.pptx PLOT DATE : 9/13/2019 PLOT BY : DOTCMV PLOT NAME : S51-0727_cr.pdf PLOT SCALE : 1:1

2

Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB12
SB12	SB13
SB13	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB2	SB1
PB3	CB1
PB4	SB2
PB5	SB2
PB6	SB2
PB7	SB3
PB8	SB3
PB9	SB3
PB10	SB5
PB11	SB5
PB12	SB6
PB13	SB7
PB14	SB7
PB15	SB7
PB16	SB8
PB17	SB9
PB18	SB9
PB19	SB9
PB20	SB10
PB21	SB11
PB22	CB1

Lighting UF 2-10 AWG Grounded	
From	To
CB1	SB2
SB2	SB6
CB1	SB11
SB11	SB8

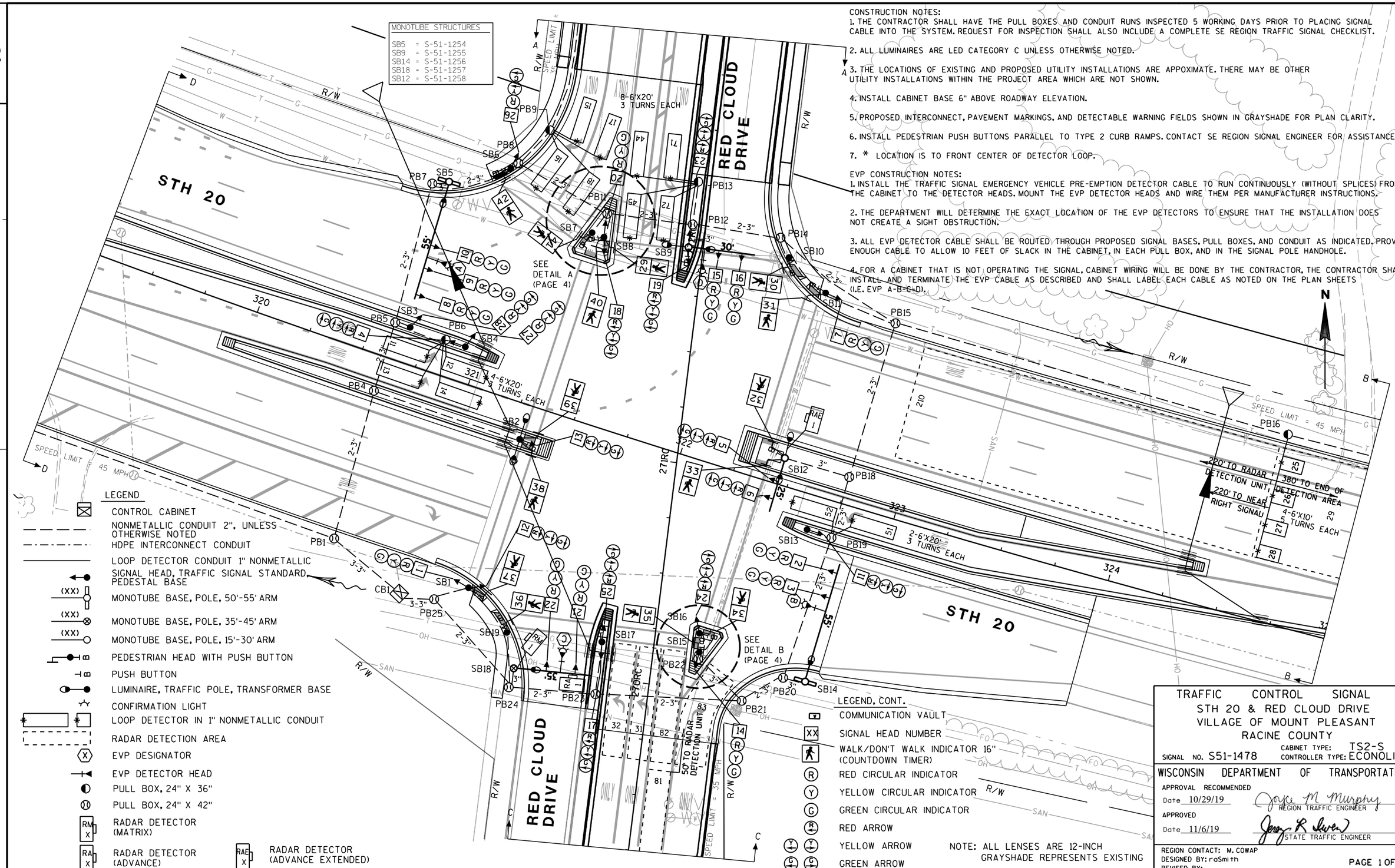
Emergency Vehicle Preemption	
From	To
CB1	SB6 (HEAD A)
CB1	SB11 (HEAD B)
CB1	SB8 (HEAD C)
CB1	SB2 (HEAD D)

Confirmation Beacon Cable Traffic Signal 3-14 AWG	
From	To
CB1	SB6 (HEAD A)
CB1	SB11 (HEAD B)
CB1	SB8 (HEAD C)
CB1	SB2 (HEAD D)

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	CABLE ROUTING	SHEET: 281	E

FILE NAME : J:\PROJECTS\d2_10330294\71\SIG\S51-0727\S51-0727_cr.pptx PLOT DATE : 9/13/2019 PLOT BY : DOTCMV PLOT NAME : S51-0727_cr.pdf PLOT SCALE : 1:1

2



CONSTRUCTION NOTES:
1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO THE SYSTEM. REQUEST FOR INSPECTION SHALL ALSO INCLUDE A COMPLETE SE REGION TRAFFIC SIGNAL CHECKLIST.

2. ALL LUMINAIRES ARE LED CATEGORY C UNLESS OTHERWISE NOTED.

3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPOXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.

4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.

5. PROPOSED INTERCONNECT, PAVEMENT MARKINGS, AND DETECTABLE WARNING FIELDS SHOWN IN GRAYSHADE FOR PLAN CLARITY.

6. INSTALL PEDESTRIAN PUSH BUTTONS PARALLEL TO TYPE 2 CURB RAMPS. CONTACT SE REGION SIGNAL ENGINEER FOR ASSISTANCE.

7. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.

EVP CONSTRUCTION NOTES:
1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.

2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.

3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH PROPOSED SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.

4. FOR A CABINET THAT IS NOT OPERATING THE SIGNAL, CABINET WIRING WILL BE DONE BY THE CONTRACTOR. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED AND SHALL LABEL EACH CABLE AS NOTED ON THE PLAN SHEETS (I.E. EVP A-B-C-D).

LEGEND
- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- HDPE INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 50'-55' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- CONFIRMATION LIGHT
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- RADAR DETECTION AREA
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- RADAR DETECTOR (MATRIX)
- RADAR DETECTOR (ADVANCE)
- RADAR DETECTOR (ADVANCE EXTENDED)

LEGEND, CONT.
- COMMUNICATION VAULT
- SIGNAL HEAD NUMBER
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
STH 20 & RED CLOUD DRIVE
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-1478
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 10/29/19 Joyce M Murphy REGION TRAFFIC ENGINEER

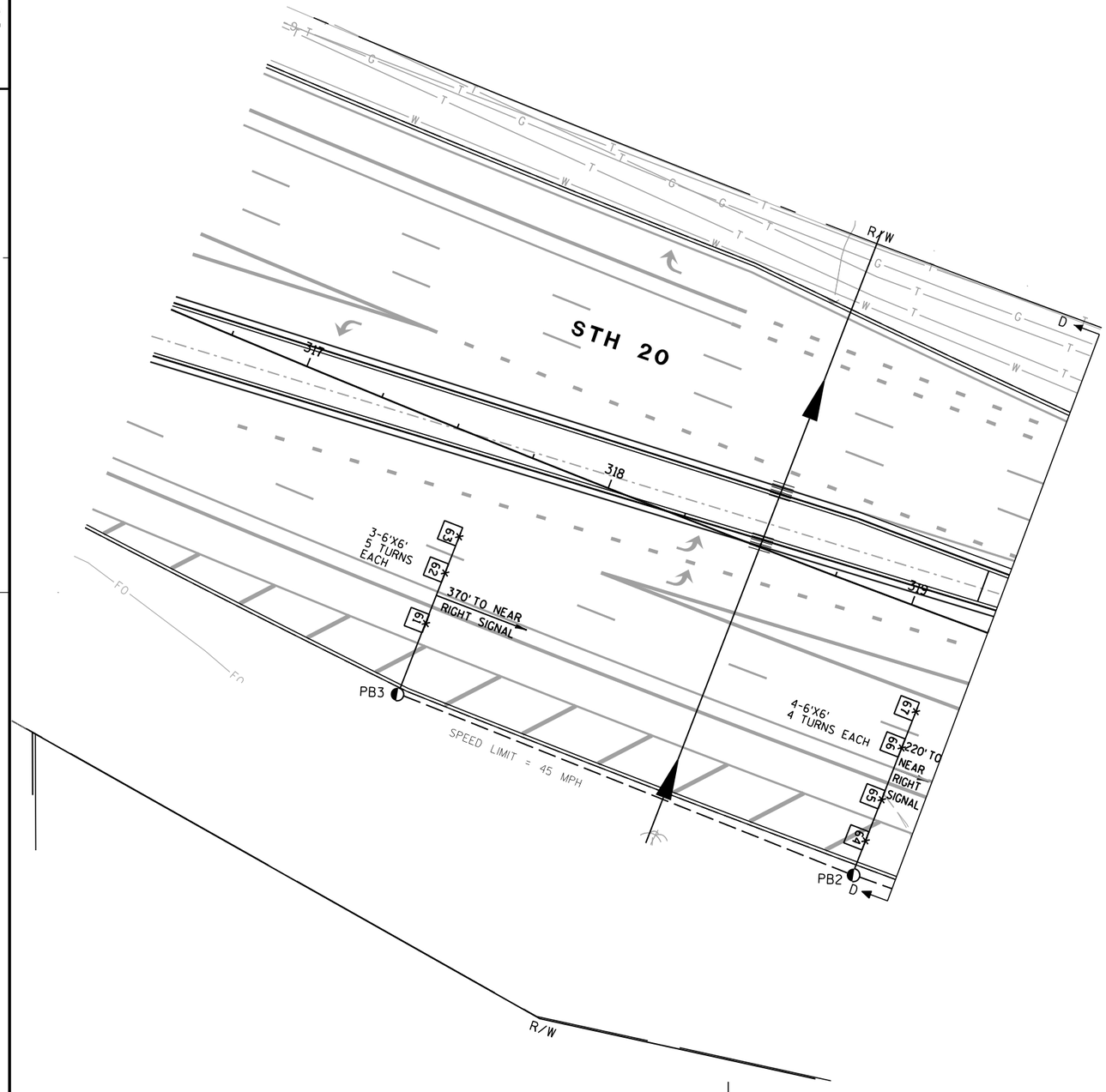
APPROVED
Date 11/6/19 Jerry R Sievert STATE TRAFFIC ENGINEER

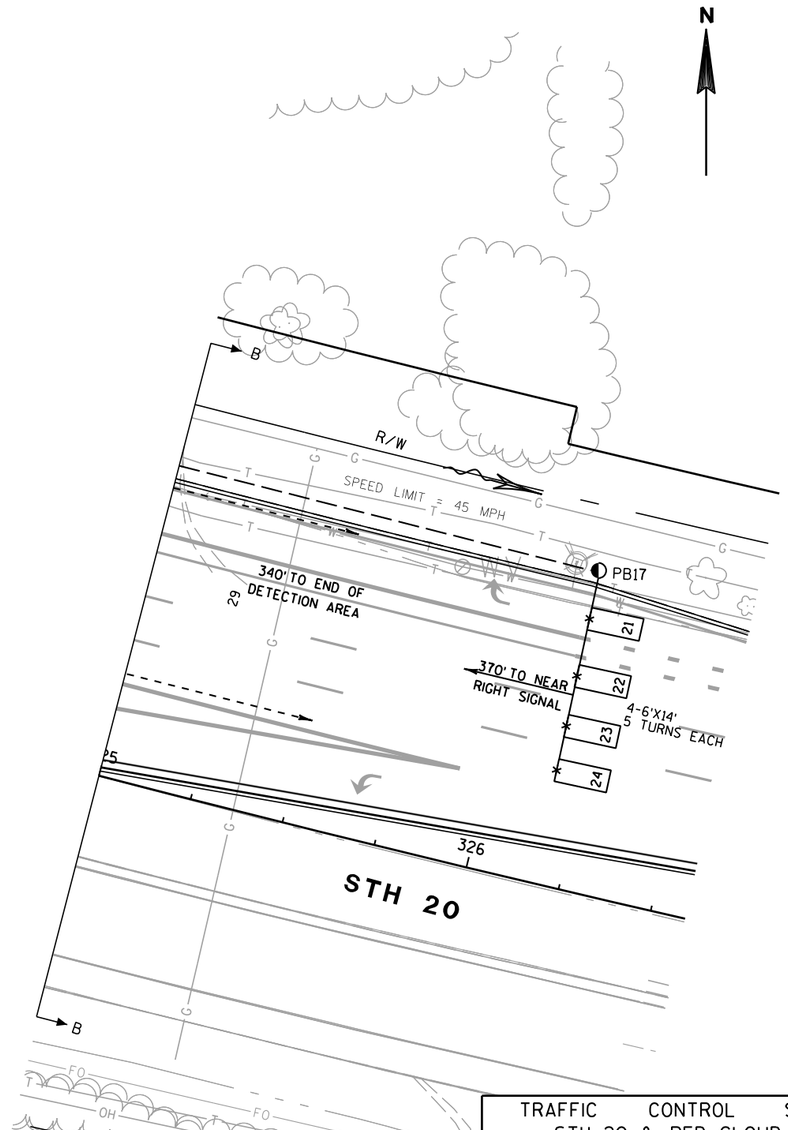
REGION CONTACT: M. COWAP
DESIGNED BY: raSmith
REVISED BY:

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET E

FILE NAME : T:\1182707.03\Traffic\Signal Design\024201-sp.dgn PLOT DATE : 9/24/2019 PLOT BY : trg PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS

2





TRAFFIC CONTROL SIGNAL
STH 20 & RED CLOUD DRIVE
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

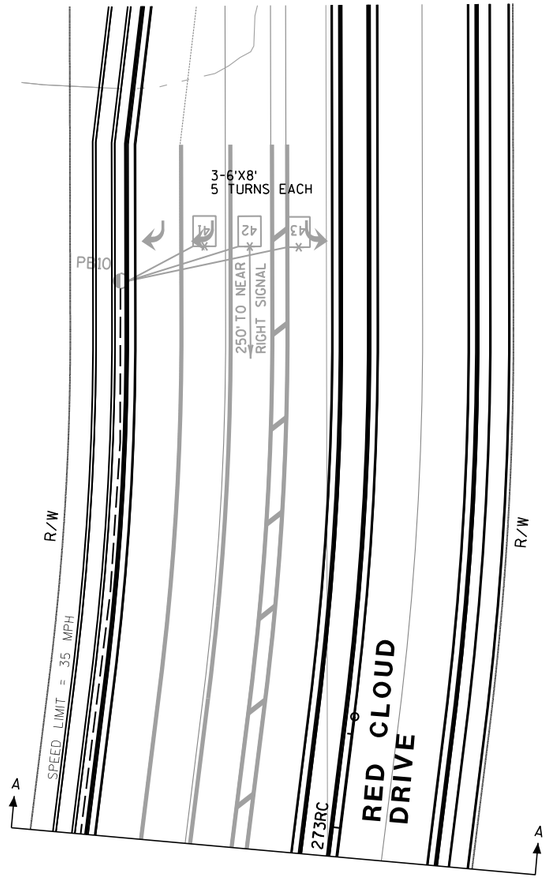
SIGNAL NO. S51-1478

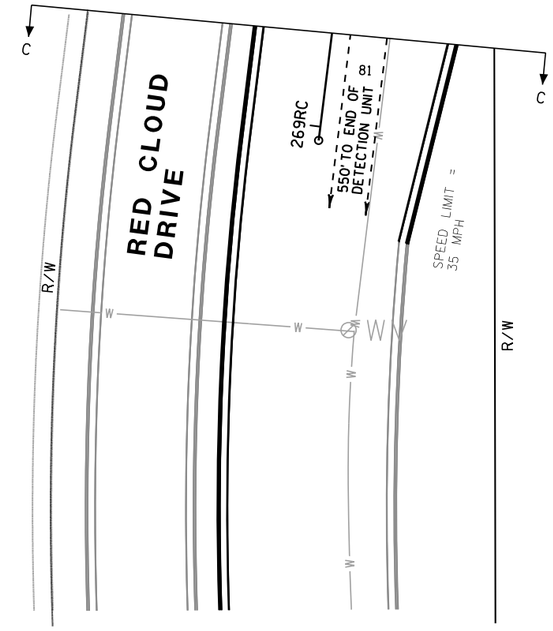
REGION CONTACT: M. COWAP
DESIGNED BY: raSmith
REVISED BY:

PAGE 2 OF 5

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET E

2







TRAFFIC CONTROL SIGNAL
STH 20 & RED CLOUD DRIVE
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-1478

REGION CONTACT: M. COWAP
DESIGNED BY: raSmith
REVISED BY:

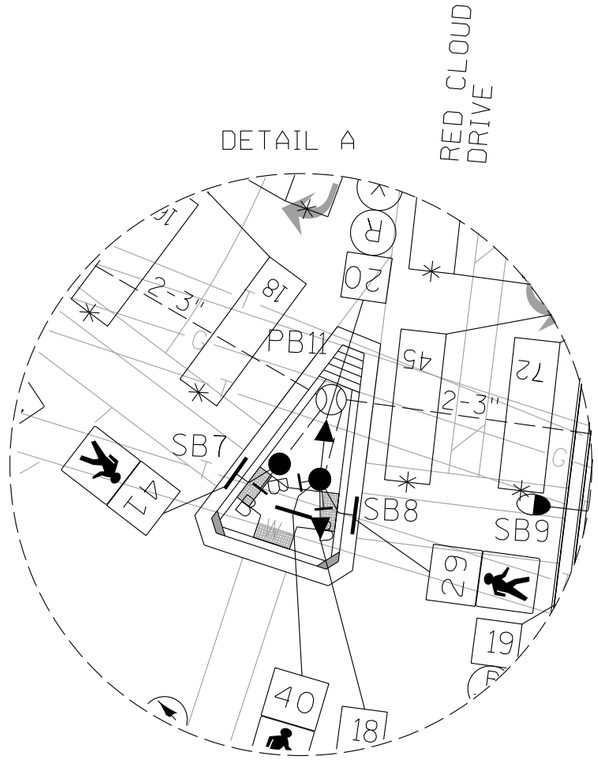
PAGE 3 OF 5

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET	E

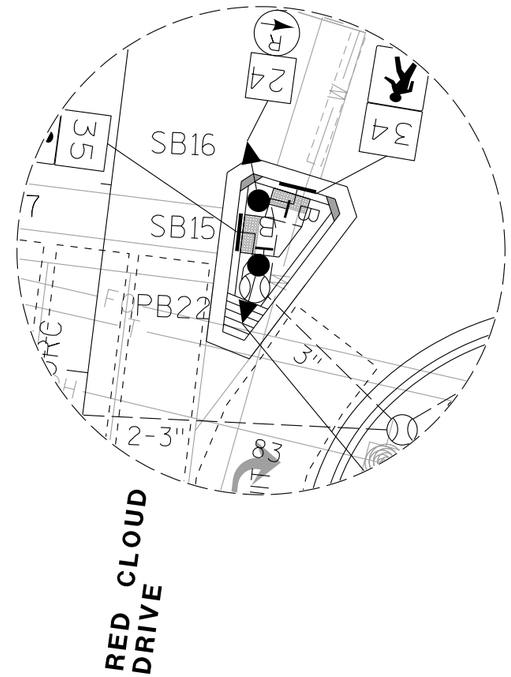
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DETAIL A



DETAIL B



TRAFFIC CONTROL SIGNAL
STH 20 & RED CLOUD DRIVE
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

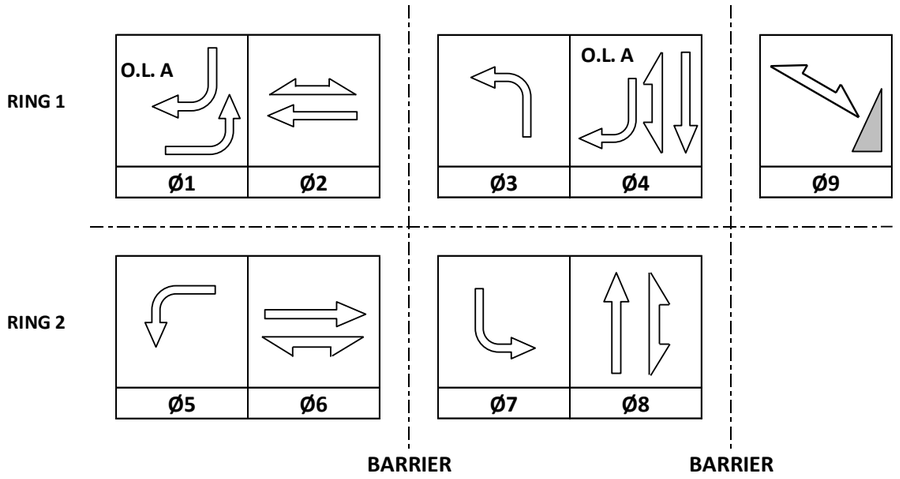
SIGNAL NO. S51-1478

REGION CONTACT: M. COWAP
DESIGNED BY: raSmith
REVISED BY:

PAGE 4 OF 5

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET	E

	HEAD NUMBERS	FLASH
Ø1	4,5,6	R ←
Ø2	7,8,9,10	R
Ø3	17,18,19	R ←
Ø4	20,21,22	R
Ø5	11,12,13	R ←
Ø6	1,2,3	R
Ø7	23,24,25	R ←
Ø8	14,15,16	R
Ø2P	29,30	
Ø4P	37,38,39,40	
Ø6P	35,36	
Ø8P	31,32,33,34	
Ø9P	41,42	
OLA	26,27,28	R
OLE		
OLF		
OLG		
OLH		



N

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X
9				X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓	↑
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION		
NONE		
TBC		
TRAFFIC RESPONSIVE		X
ADAPTIVE		
*LOCATION OF MASTER CONTROLLER NO:	S-	
SIGNAL SYSTEM NO:	SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	X
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	35	33	39	37	43	41	47	45	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	13	15	17	21	23	25	27	41	43	45	52	62	64	66	71	29	31	81	83					PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	1	1	1	2	2	2	2	4	4	4	5	6	6	6	7	2	3	8	8					CALLED PHASE
CALL OPTION	X	X	X	X		X		X			X	X	X		X	X	X	X		X					CALL OPTION
DELAY TIME			X																	X					DELAY TIME
EXTENTION OPTION	X	X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X					EXTENTION OPTION
EXTEND TIME									X	X									X						EXTEND TIME
USE ADDED INITIAL						X		X					X		X										USE ADDED INITIAL
CROSS SWITCH PHASE																									CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	36	34	40	38	44	42	48	46	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	12	14	16	18	22	24	26	28	42	44	51	61	63	65	67	72	210	32	82						PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	1	1	1	2	2	2	2	4	4	5	6	6	6	6	7	2	3	8						CALLED PHASE
CALL OPTION	X	X	X	X	X	X	X	X		X	X		X		X	X	X	X	X						CALL OPTION
DELAY TIME			X																						DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X						EXTENTION OPTION
EXTEND TIME									X																EXTEND TIME
USE ADDED INITIAL					X	X	X	X					X		X										USE ADDED INITIAL
CROSS SWITCH PHASE																									CROSS SWITCH PHASE

STH 20 & RED CLOUD DRIVE
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO: S51-1478 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 10/2019 PAGE NUMBER: 5 OF 5

PROJECT ID:	1033-02-71
INTERSECTION:	STH 20 & Red Cloud Drive

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

DATE 10/1/19

CB1 TO	JUMPER	# OF COND.	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	FUTURE APS
				RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1		12	1	RED	ORG	GRN								
			12				RED/BLK	ORG/BLK	GRN/BLK					
			37								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK
SB2		12	13				RED	ORG	GRN					
			38								BLK	BLU		
			39								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK
SB3		7	28	RED				ORG	GRN					
SB4		12	4				RED/BLK	ORG/BLK	GRN/BLK					
			27	RED				ORG	GRN					
SB5		7	8	RED	ORG	GRN								
			9	RED	ORG	GRN								
			10	RED	ORG	GRN								
SB6		12	26	RED				ORG	GRN					
			42								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK
SB7		12	41								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK
SB8		15	18				RED	ORG	GRN					
			20	RED/BLK	ORG/BLK	GRN/BLK								
			29								BLK	BLU		
			40								BLK/WHT	BLU/WHT		
			BUTTON										WHT/BLK	BLU/BLK
			BUTTON										BLK/WHT	BLU/WHT
SB9		15	15	RED	ORG	GRN								
			16	RED	ORG	GRN								
			19				RED/BLK	ORG/BLK	GRN/BLK					
			23				RED/WHT	BLU/WHT	GRN/WHT					
			BUTTON										WHT/BLK	BLU/BLK
SB10		12	30								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK
SB11		12	7	RED	ORG	GRN								
			31								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK
SB12		12	5				RED	ORG	GRN					
			6				RED	ORG	GRN					
			32								BLK	BLU		
			33								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK
SB13		7	11				RED	ORG	GRN					
SB14		7	2	RED	ORG	GRN								
			3	RED	ORG	GRN								
SB15		12	14	RED	ORG	GRN								
			35								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK
SB16		12	24				RED	ORG	GRN					
			34								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK
SB17		12	17				RED	ORG	GRN					
			25				RED/BLK	ORG/BLK	GRN/BLK					
			BUTTON										WHT/BLK	BLU/BLK
SB18		7	21	RED	ORG	GRN								
			22	RED	ORG	GRN								
SB19		12	36								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP

FROM	TO
CB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB15
SB15	SB16
SB16	SB17
SB17	SB18
SB18	SB19
SB19	SB1
SB1	CB1

PULL BOX BONDING JUMPER 10 AWG GRN XLP

FROM	TO
PB1	CB1
PB4	SB3
PB5	SB3
PB6	SB4
PB7	SB5
PB8	SB6
PB11	SB8
PB12	SB9
PB14	SB10
PB15	SB11
PB18	SB12
PB19	SB13
PB20	SB14
PB21	SB14
PB22	SB15
PB23	SB17
PB24	SB18
PB25	CB1

LIGHTING UF 10 AWG W/GROUND

FROM	TO
CB1	SB2
SB2	SB5
SB5	SB9
CB1	SB18
SB18	SB14
SB14	SB12

EMERGENCY VEHICLE PREEMPTION (EVP) CABLE

FROM	TO
CB1	HEAD A (SB5)
CB1	HEAD B (SB14)
CB1	HEAD C (SB18)
CB1	HEAD D (SB9)

RADAR DETECTOR CABLE

FROM	TO
CB1	RAE1 (SB12)
CB1	RA1 (SB18)
CB1	RM1 (SB18)

EMERGENCY VEHICLE PREEMPTION (EVP) CONFIRMATION BEACON CABLE

FROM	TO
CB1	HEAD A (SB5)
CB1	HEAD B (SB14)
CB1	HEAD C (SB18)
CB1	HEAD D (SB9)

*Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications.
*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
6 EA	WOOD POLES, CLASS 4
700 LF	SPAN WIRE
2 EA	WOOD POST
25 EA	SIGNAL HEADS
1 LS	TEMPORARY INFRARED EVP SYSTEM
4 EA	LIGHTING LED-C OR 250 W HPS

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- SIGNAL HEAD, OVERHEAD MOUNT
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

STH 20 (WASHINGTON AVE)

SPEED LIMIT= 50 MPH

SPEED LIMIT= 35 MPH

RENAISSANCE BLVD

CTH H/RENAISSANCE BLVD

42'RN+00

41'RN+00

15'RS+00

WP1 WP2 WP3 WP4 WP5 WP6

213'WB'+00 214'WB'+00 215'WB'+00 216'WB'+00 217'WB'+00 218'WB'+00

213'EB'+00 214'EB'+00 215'EB'+00 216'EB'+00 217'EB'+00 218'EB'+00

CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
5. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
6. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
7. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
8. TEMPORARY DETECTORS SHALL BE MOUNTED AT THE HEIGHT RECOMMENDED BY THE MANUFACTURER IN THE SPECIFICATIONS.
9. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
10. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.

TRAFFIC CONTROL SIGNAL
STH 20 & CTH H/RENAISSANCE BLVD
VILLAGE OF MT. PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0719

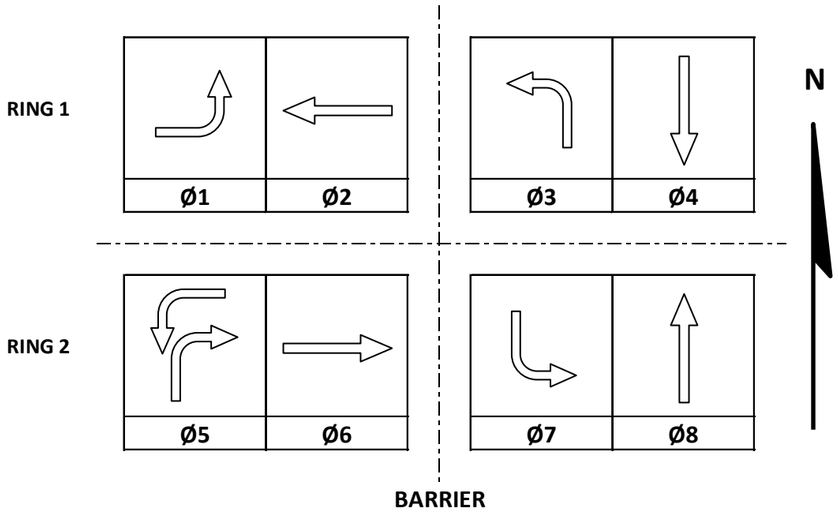
REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 1 OF 2

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TEMPORARY TRAFFIC SIGNAL PLAN	SHEET 288	E

2

	HEAD NUMBERS	FLASH
Ø1	4,5,6	R ←
Ø2	7,8,9	R
Ø3	16,17	-
Ø4	21,22,23,24,25	R
Ø5	10,11,12,18,19,20	R ←
Ø6	1,2,3	R
Ø7	24,25	-
Ø8	13,14,15,16,17	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLA		
OLB		
OLC		
OLD		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓ ↑	↓ ↑
PHASE	2+5	6+1	4+8	8+4

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 4+8.

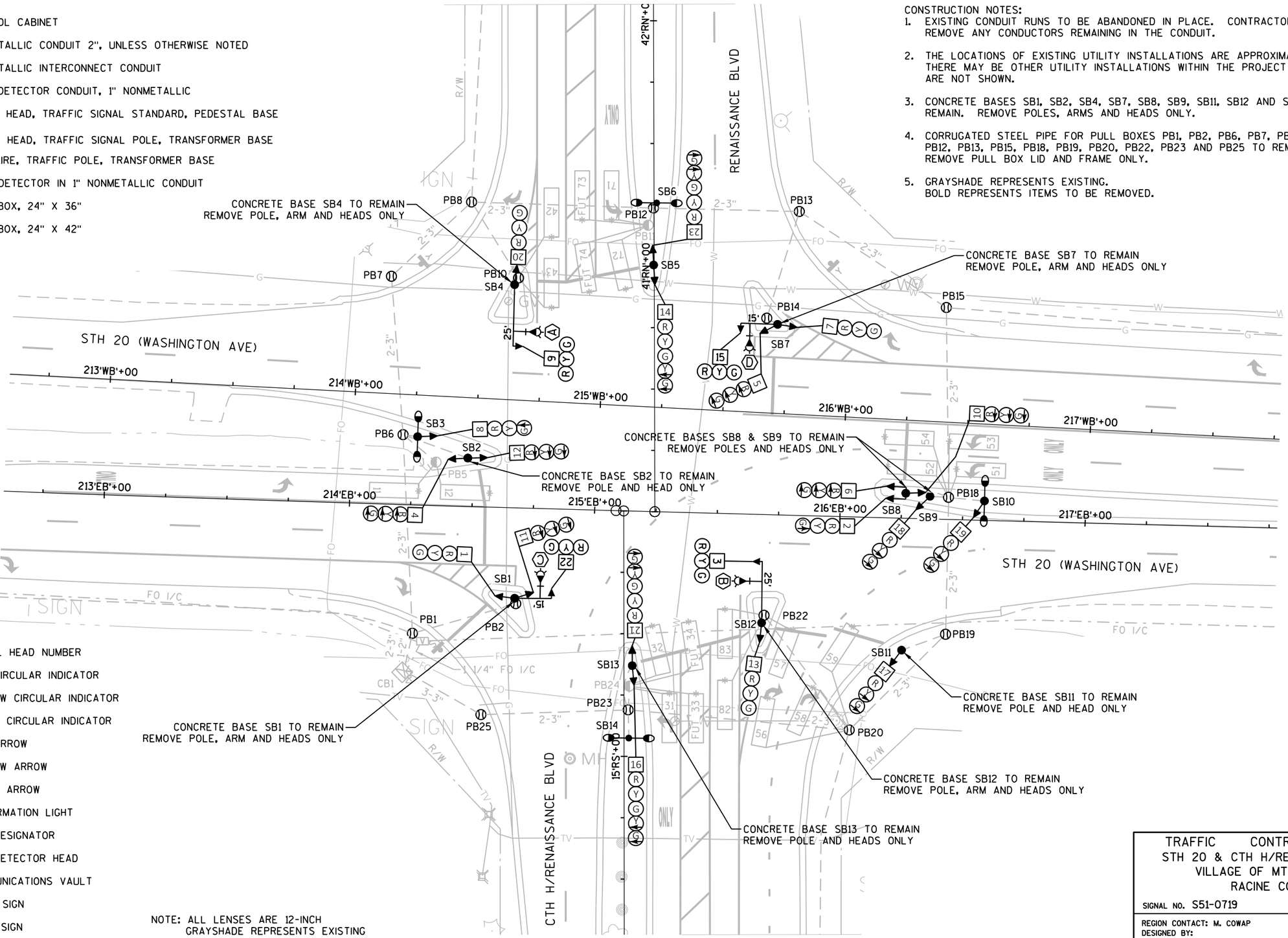
STH 20 & CTH H/RENAISSANCE BLVD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY
SIGNAL NO: T51-0719 CABINET TYPE: TS1
CONTROLLER TYPE: ECONOLITE
DATE: JULY 2019 PAGE NUMBER: 2 OF 2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"

CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. CONCRETE BASES SB1, SB2, SB4, SB7, SB8, SB9, SB11, SB12 AND SB13 TO REMAIN. REMOVE POLES, ARMS AND HEADS ONLY.
4. CORRUGATED STEEL PIPE FOR PULL BOXES PB1, PB2, PB6, PB7, PB8, PB10, PB12, PB13, PB15, PB18, PB19, PB20, PB22, PB23 AND PB25 TO REMAIN. REMOVE PULL BOX LID AND FRAME ONLY.
5. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.



- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (AG) (G) (G) GREEN ARROW
- CONFIRMATION LIGHT
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD
- [V] COMMUNICATIONS VAULT
- Y YIELD SIGN
- S STOP SIGN

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
STH 20 & CTH H/RENAISSANCE BLVD
VILLAGE OF MT. PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0719

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 1 OF 1

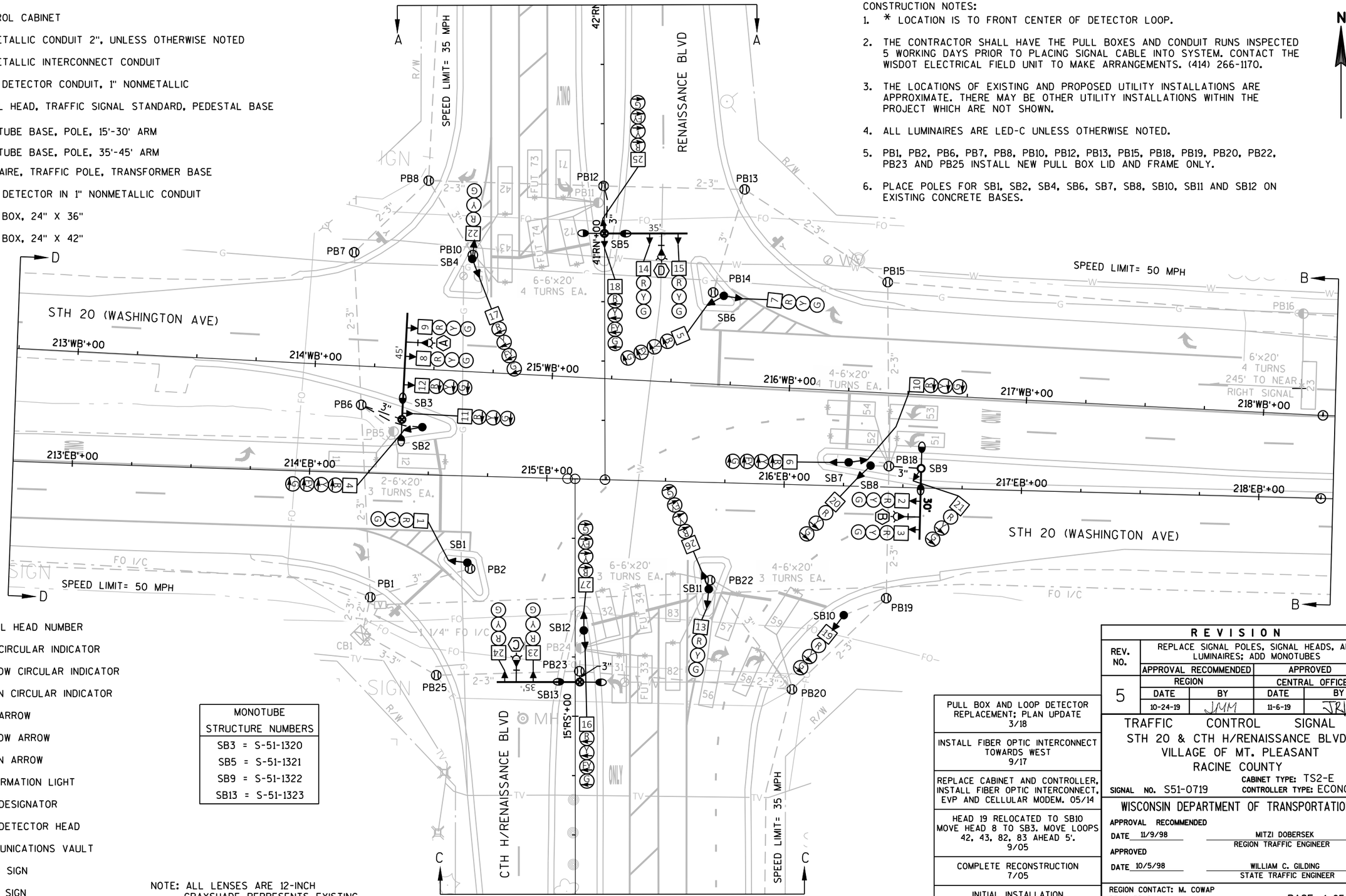
PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 290 E

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX') MONOTUBE BASE, POLE, 15'-30' ARM
- (XX') MONOTUBE BASE, POLE, 35'-45' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
5. PB1, PB2, PB6, PB7, PB8, PB10, PB12, PB13, PB15, PB18, PB19, PB20, PB22, PB23 AND PB25 INSTALL NEW PULL BOX LID AND FRAME ONLY.
6. PLACE POLES FOR SB1, SB2, SB4, SB6, SB7, SB8, SB10, SB11 AND SB12 ON EXISTING CONCRETE BASES.



- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- CONFIRMATION LIGHT
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD
- V COMMUNICATIONS VAULT
- Y YIELD SIGN
- S STOP SIGN

MONOTUBE STRUCTURE NUMBERS
SB3 = S-51-1320
SB5 = S-51-1321
SB9 = S-51-1322
SB13 = S-51-1323

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

REVISION	
REV. NO.	REPLACE SIGNAL POLES, SIGNAL HEADS, AND LUMINAIRES; ADD MONOTUBES
5	PULL BOX AND LOOP DETECTOR REPLACEMENT; PLAN UPDATE 3/18
	INSTALL FIBER OPTIC INTERCONNECT TOWARDS WEST 9/17
	REPLACE CABINET AND CONTROLLER, INSTALL FIBER OPTIC INTERCONNECT, EVP AND CELLULAR MODEM. 05/14
	HEAD 19 RELOCATED TO SB10 MOVE HEAD 8 TO SB3. MOVE LOOPS 42, 43, 82, 83 AHEAD 5'. 9/05
	COMPLETE RECONSTRUCTION 7/05
	INITIAL INSTALLATION DATE NOT AVAILABLE

APPROVAL RECOMMENDED		APPROVED	
REGION		CENTRAL OFFICE	
DATE	BY	DATE	BY
10-24-19	JMM	11-6-19	JRJ

TRAFFIC CONTROL SIGNAL
STH 20 & CTH H/RENAISSANCE BLVD
VILLAGE OF MT. PLEASANT
RACINE COUNTY

CABINET TYPE: TS2-E
SIGNAL NO. S51-0719 CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

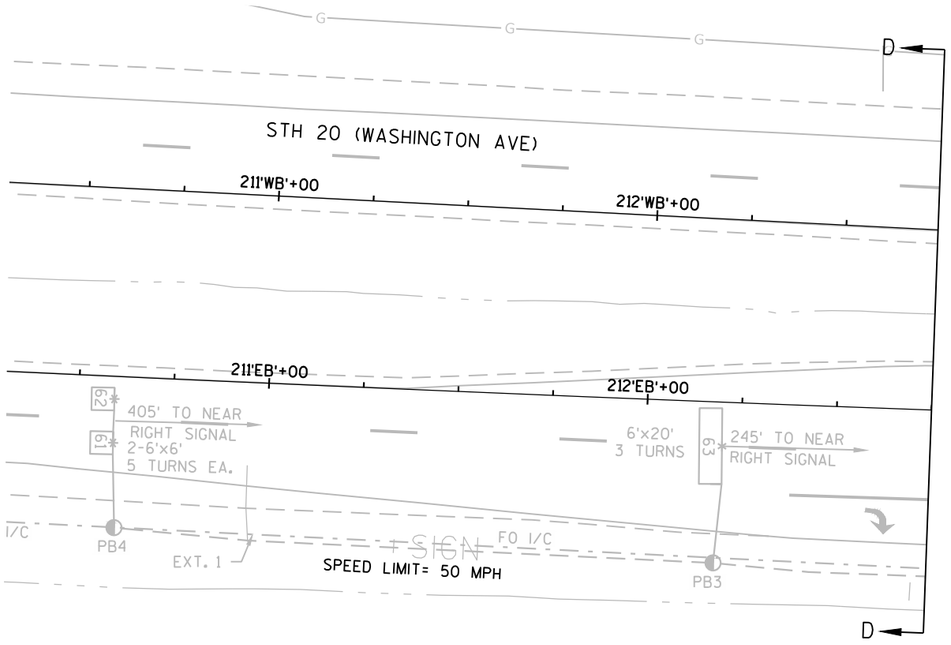
APPROVAL RECOMMENDED
DATE 11/9/98 MITZI DOBERSEK, REGION TRAFFIC ENGINEER

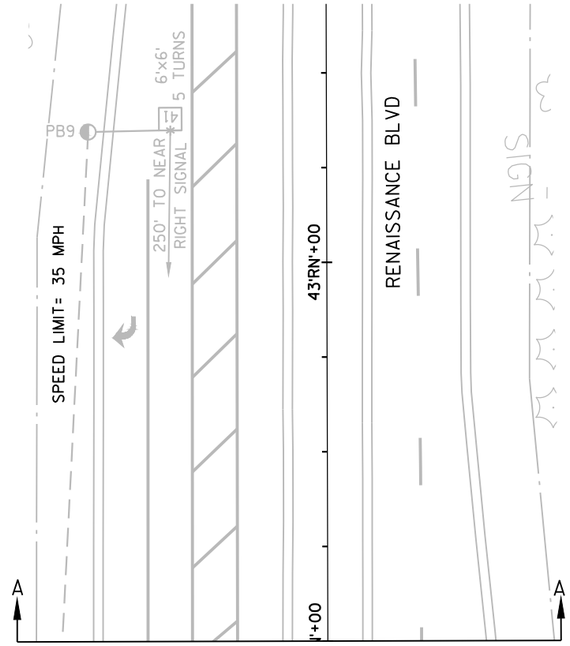
APPROVED
DATE 10/5/98 WILLIAM C. GILDING, STATE TRAFFIC ENGINEER

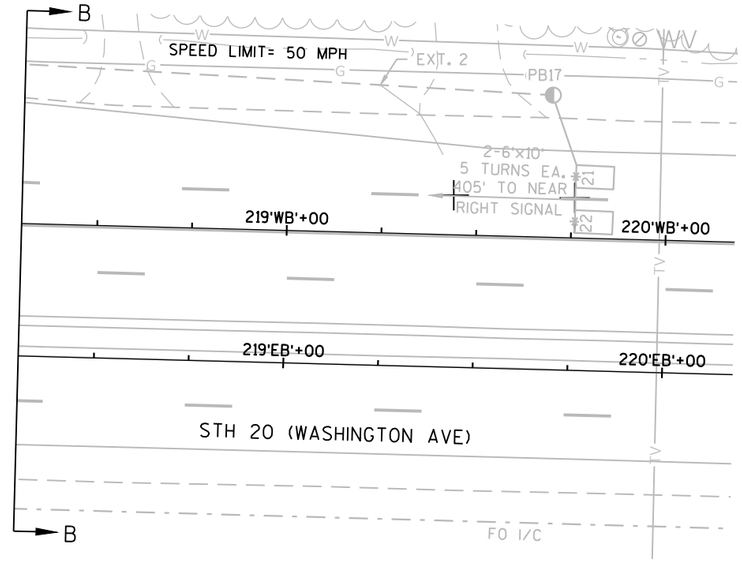
REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: C. VANDE LEEST

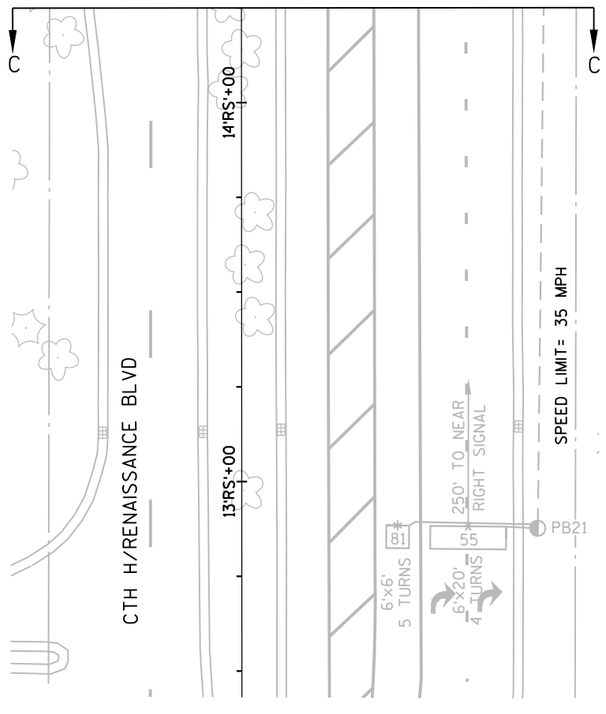
PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL PLAN - CTH H	SHEET 291	E

FILE NAME : N:\PDS\C3D\CAD\00820300\SIG\S51-0719\S51-0719_R5_2016.DWG
LAYOUT NAME - S51-0719_R5_PG1
PLOT DATE : 11/27/2019 10:09 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42









EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.

2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.

3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH EXISTING SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.

4. FOR A CABINET THAT IS NOT OPERATING THE SIGNAL, CABINET WIRING WILL BE DONE BY THE CONTRACTOR. IF THE CABINET IS OPERATING THE SIGNAL, THE CABINET WIRING WILL BE DONE BY THE DEPARTMENT. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED AND SHALL LABEL EACH CABLE AS NOTED ON THE PLAN SHEETS (I.E. EVP A-B-C-D).

TRAFFIC CONTROL SIGNAL
STH 20 & CTH H/RENAISSANCE BLVD
VILLAGE OF MT. PLEASANT
RACINE COUNTY

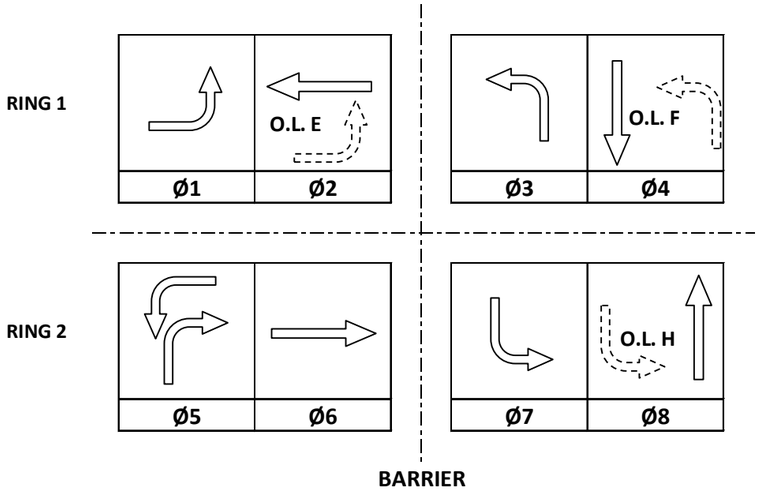
SIGNAL NO. S51-0719

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 2 OF 3

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL PLAN - CTH H	SHEET 292	E

	HEAD NUMBERS	FLASH
Ø1	4,5,6	R ←
Ø2	7,8,9	R
Ø3	16,17,18	R ←
Ø4	22,23,24	R
Ø5	10,11,12,19,20,21	R ←
Ø6	1,2,3	R
Ø7	25,26,27	R ←
Ø8	13,14,15	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLE	4,5,6	-
OLF	16,17,18	-
OLG		
OLH	25,26,27	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 51-0094

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	X
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	21	23	32	34	42	51	53	55	57	59	62	71	73	81	83	PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	3	FUTURE	4	5	5	5	5	5	6	7	FUTURE	8	8	CALLED PHASE
CALL OPTION	X	X	X	X		X	X	X		X	X	X	X			X	CALL OPTION
DELAY TIME										X	X						DELAY TIME
EXTENTION OPTION	X	X	X	X		X	X	X	X	X	X	X	X		X	X	EXTENTION OPTION
EXTEND TIME									X						X		EXTEND TIME
USE ADDED INITIAL		X	X									X					USE ADDED INITIAL
CROSS SWITCH PHASE	2			4									8				CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	12	22	31	33	41	43	52	54	56	58	61	63	72	74	82		PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	3	FUTURE	4	4	5	5	5	5	6	6	7	FUTURE	8		CALLED PHASE
CALL OPTION	X	X	X			X	X	X	X	X	X	X	X		X		CALL OPTION
DELAY TIME									X	X							DELAY TIME
EXTENTION OPTION	X	X	X		X	X	X	X	X	X	X	X	X		X		EXTENTION OPTION
EXTEND TIME					X												EXTEND TIME
USE ADDED INITIAL		X									X	X					USE ADDED INITIAL
CROSS SWITCH PHASE	2		4										8				CROSS SWITCH PHASE

STH 20 & CTH H/RENAISSANCE BLVD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY
SIGNAL NO: S51-0719 CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE
DATE: SEPTEMBER 2019 PAGE NUMBER: 3 OF 3

FILE NAME: \\dotwkefile1p\N3PUBLIC\SPO\Operations\Signals\Databases\Signal Intersection Files\S51-0719\PLANS\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: 9/17/2019 PLOT NAME: TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT BY: M COWAP PLOT SCALE: 1:1

2

PROJECT ID:	1033-02-71
INTERSECTION:	STH 20 & CTH H/RENAISSANCE BLVD

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

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	FUTURE APS
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	7	1	RED	ORG	GRN								
SB2	7	4				RED	ORG	GRN	WHT/BLK				
SB3	12	8	RED	ORG	GRN								
		9	RED	ORG	GRN								
		11				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		12				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB4	12	17				RED	ORG	GRN	WHT/BLK				
		22	RED/BLK	ORG/BLK	GRN/BLK								
SB5	15	14	RED	ORG	BLK								
		15	RED	ORG	BLK								
		18				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		25				RED/WHT	BLU/WHT	GRN/WHT	WHT/BLK				
SB6	12	5				RED	ORG	GRN	BLK/WHT				
		7	RED/BLK	ORG/BLK	GRN/BLK								
SB7	12	6				RED	ORG	GRN	BLK/WHT				
		10				RED/BLK	ORG/BLK	GRN/BLK					
SB8	7	20	RED				ORG	GRN					
SB9	12	2	RED/BLK	ORG/BLK	GRN/BLK								
		3	RED/BLK	ORG/BLK	GRN/BLK								
		21	RED				ORG	GRN					
SB10	7	19	RED				ORG	GRN					
SB11	12	13	RED	ORG	BLK								
		26				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB12	12	16				RED	ORG	BLK	BLK/WHT				
		27				RED/BLK	ORG/BLK	GRN/BLK	WHT/BLK				
SB13	7	23	RED	ORG	BLK								
		24	RED	ORG	BLK								

*Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.
*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.
*Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.

2

Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB2	SB1
PB6	SB3
PB7	SB3
PB8	SB4
PB10	SB4
PB12	SB5
PB13	SB6
PB14	SB6
PB15	SB9
PB18	SB9
PB19	SB10
PB20	SB10
PB22	SB11
PB23	SB13
PB25	CB1

Lighting UF 2-10 AWG Grounded	
From	To
CB1	SB3
SB3	SB5
CB1	SB13
SB13	SB9

Emergency Vehicle Preemption	
From	To
CB1	SB3 (HEAD A)
CB1	SB9 (HEAD B)
CB1	SB13 (HEAD C)
CB1	SB5 (HEAD D)

Confirmation Beacon Cable Traffic Signal 3-14 AWG	
From	To
CB1	SB3 (HEAD A)
CB1	SB9 (HEAD B)
CB1	SB13 (HEAD C)
CB1	SB5 (HEAD D)

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	CABLE ROUTING	SHEET: 295	E

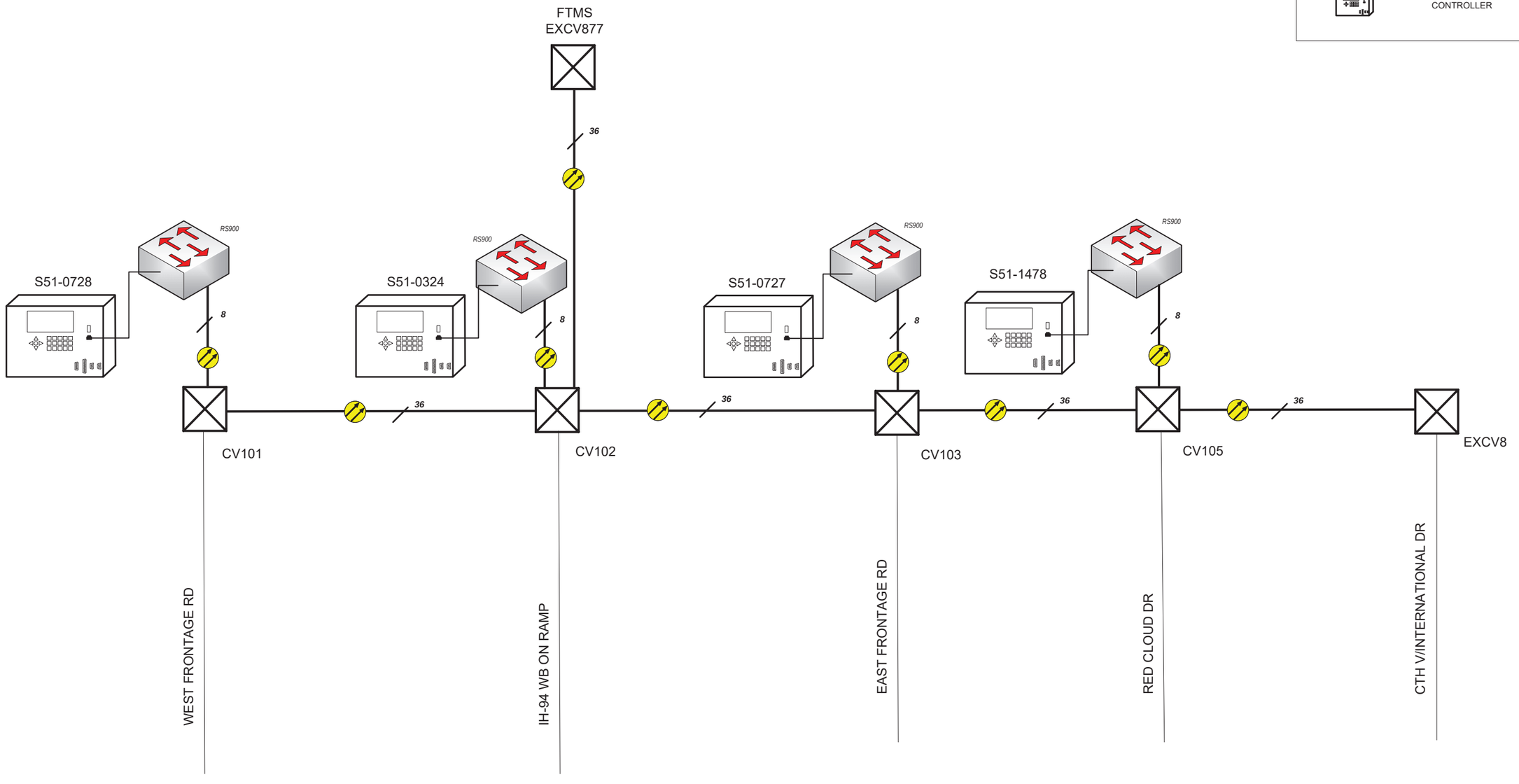
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NOTES:
1. MAXIMUM SPLICE LOSS SHALL BE 0.1dB.
2. NO INTERMEDIATE SPLICES ALLOWED.
3. ALL SPLICES SHALL BE FUSION SPLICES.
4. COORDINATE FIBER ASSIGNMENTS WITH THE STOC AT (414) 227-2166 BEFORE SPLICING FIBER OPTIC CABLE.
5. THE ENTIRE MAINLINE FIBER OPTIC CABLE SHALL NOT BE CUT AND/OR SPLICED IN THE VAULTS NEAREST THE TRAFFIC SIGNAL CABINET WHILE MAKING THE PIGTAIL CONNECTION. ONLY THE REQUIRED BUFFER TUBE SHALL BE CUT AND SPLICED WITH THE PIGTAIL CONNECTION.

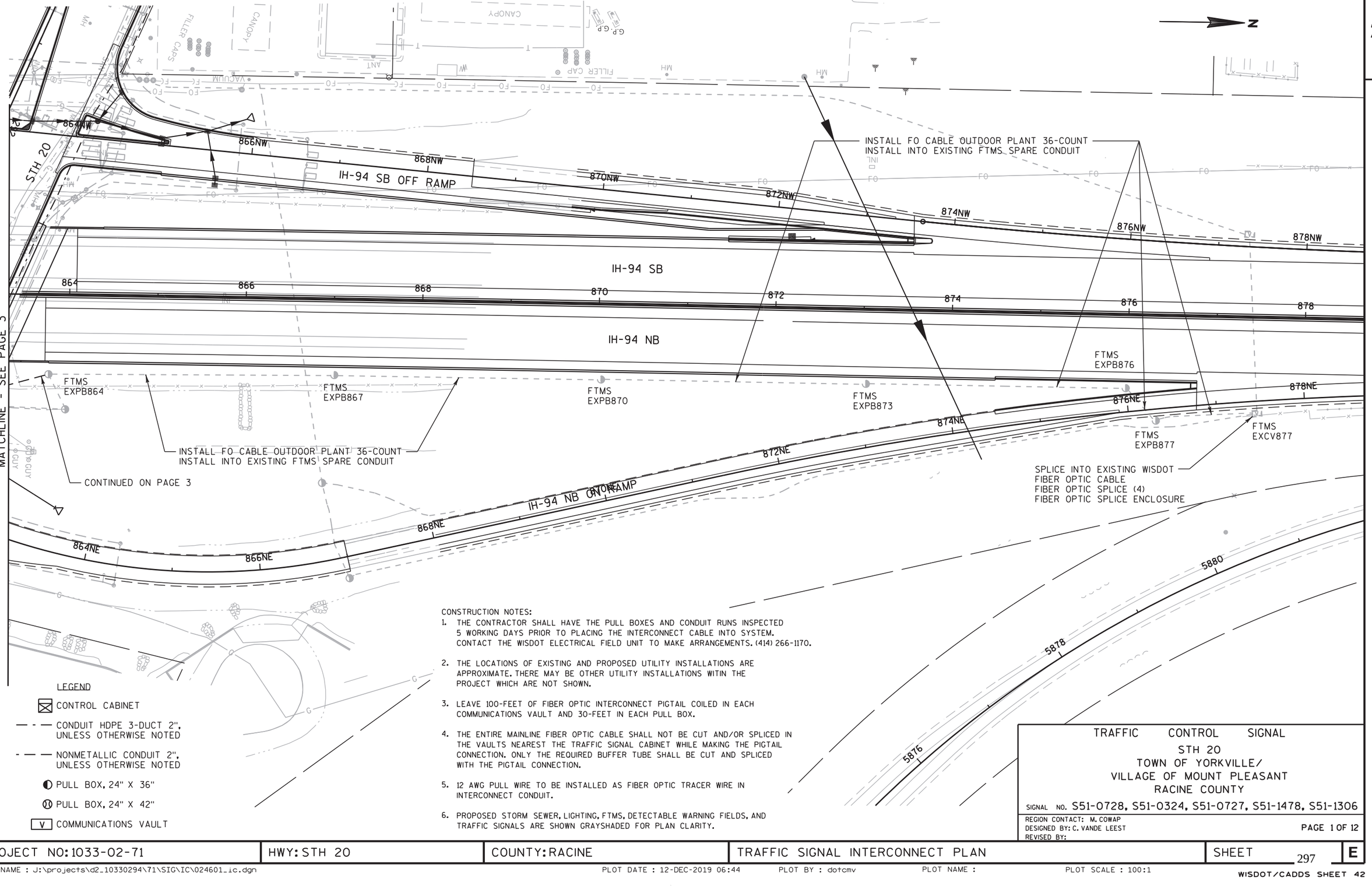
LEGEND

- 36 — SM FIBER OPTIC CABLE (# STRANDS)
- SPLICE ENCLOSURE
- HARDENED ETHERNET SWITCH
- TRAFFIC SIGNAL CONTROLLER

N



PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL INTERCONNECT - OVERVIEW	SHEET 296	E



LEGEND

- CONTROL CABINET
- CONDUIT HDPE 3-DUCT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- V COMMUNICATIONS VAULT

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING THE INTERCONNECT CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITIN THE PROJECT WHICH ARE NOT SHOWN.
3. LEAVE 100-FEET OF FIBER OPTIC INTERCONNECT PIGTAIL COILED IN EACH COMMUNICATIONS VAULT AND 30-FEET IN EACH PULL BOX.
4. THE ENTIRE MAINLINE FIBER OPTIC CABLE SHALL NOT BE CUT AND/OR SPLICED IN THE VAULTS NEAREST THE TRAFFIC SIGNAL CABINET WHILE MAKING THE PIGTAIL CONNECTION. ONLY THE REQUIRED BUFFER TUBE SHALL BE CUT AND SPLICED WITH THE PIGTAIL CONNECTION.
5. 12 AWG PULL WIRE TO BE INSTALLED AS FIBER OPTIC TRACER WIRE IN INTERCONNECT CONDUIT.
6. PROPOSED STORM SEWER, LIGHTING, FTMS, DETECTABLE WARNING FIELDS, AND TRAFFIC SIGNALS ARE SHOWN GRAYSHADED FOR PLAN CLARITY.

TRAFFIC CONTROL SIGNAL

STH 20

TOWN OF YORKVILLE/
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0728, S51-0324, S51-0727, S51-1478, S51-1306

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

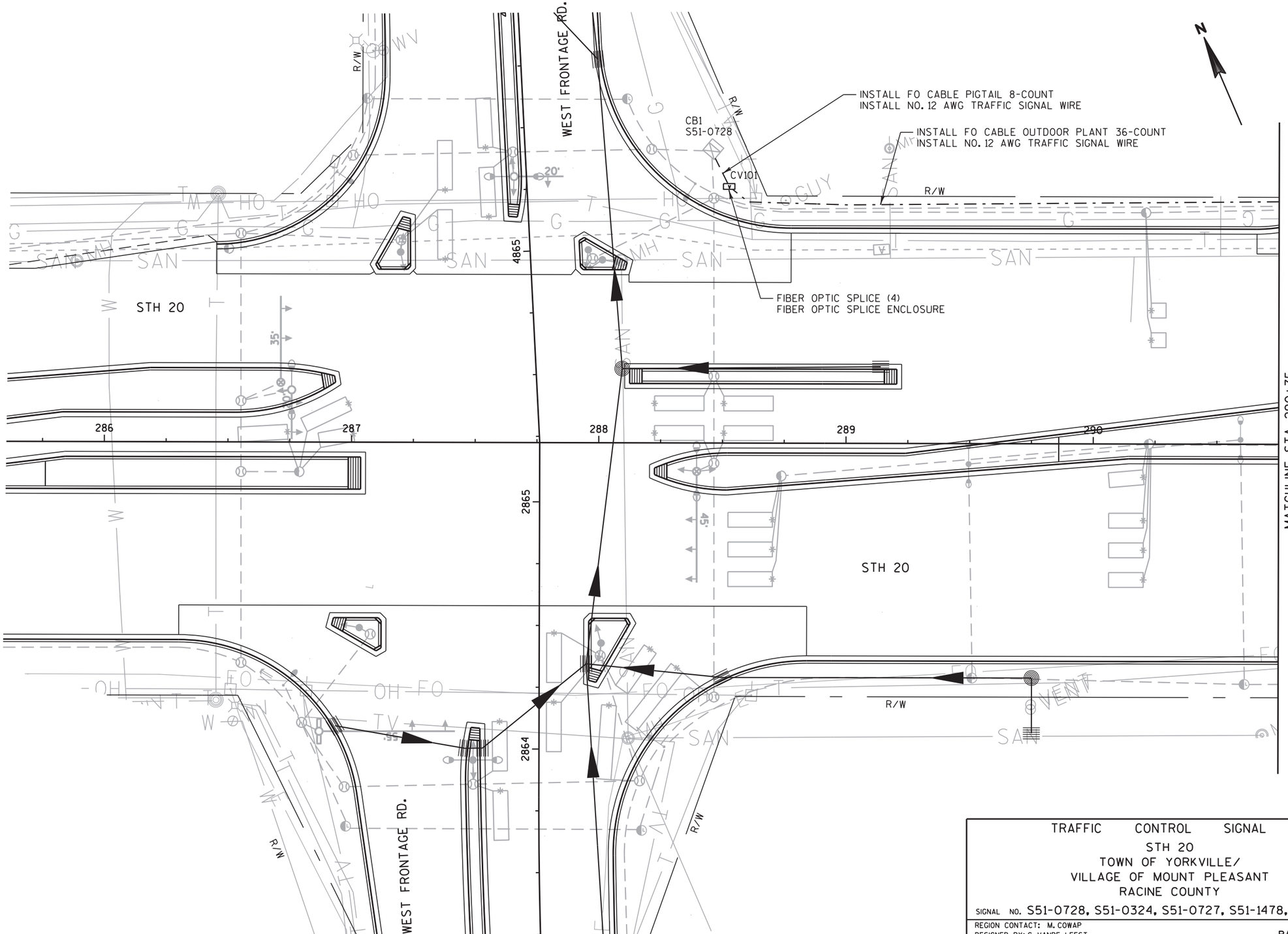
PAGE 1 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 297	E

2

LEGEND

- CONTROL CABINET
- CONDUIT HDPE 3-DUCT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- COMMUNICATIONS VAULT



TRAFFIC CONTROL SIGNAL

STH 20
TOWN OF YORKVILLE/
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0728, S51-0324, S51-0727, S51-1478, S51-1306

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 2 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 298	E

MATCHLINE - SEE PAGE 1

FTMS
EXPB864
INSTALL CONDUIT
INTO EXISTING ITEM

INSTALL FO CABLE OUTDOOR PLANT 36-COUNT
INSTALL NO. 12 AWG TRAFFIC SIGNAL WIRE

INSTALL FO CABLE PIGTAIL 8-CT
INSTALL NO. 12 AWG TRAFFIC SIGNAL WIRE

CB1
S51-0324

I/C PB1

CV102

FIBER OPTIC SPLICE (4)
FIBER OPTIC SPLICE ENCLOSURE

INSTALL FO CABLE OUTDOOR PLANT 36-COUNT
INSTALL NO. 12 AWG TRAFFIC SIGNAL WIRE

I/C PB2

IH-94 NB ON RAMP

IH-94 SB OFF RAMP

IH-94 SB ON RAMP

IH-94 NB OFF RAMP

STH 20

MATCHLINE STA 290+75

MATCHLINE STA 296+75

LEGEND

- CONTROL CABINET
- CONDUIT HDPE 3-DUCT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- V COMMUNICATIONS VAULT

TRAFFIC CONTROL SIGNAL
STH 20
TOWN OF YORKVILLE/
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0728, S51-0324, S51-0727, S51-1478, S51-1306

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 3 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 299	E

FILE NAME : J:\projects\d2_10330294\71\SIG\IC\024603_ic.dgn PLOT DATE : 12-DEC-2019 06:44 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

R/W

R/W

STH 20

MATCHLINE STA 296+75

MATCHLINE STA 302+50

297 298 299 300 301 302

INSTALL FO CABLE OUTDOOR PLANT 36-COUNT
INSTALL NO. 12 AWG TRAFFIC SIGNAL WIRE

STH 20

RIPRAP

RIPRAP

LEGEND

- CONTROL CABINET
- CONDUIT HDPE 3-DUCT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- COMMUNICATIONS VAULT

TRAFFIC CONTROL SIGNAL

STH 20
TOWN OF YORKVILLE/
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0728, S51-0324, S51-0727, S51-1478, S51-1306

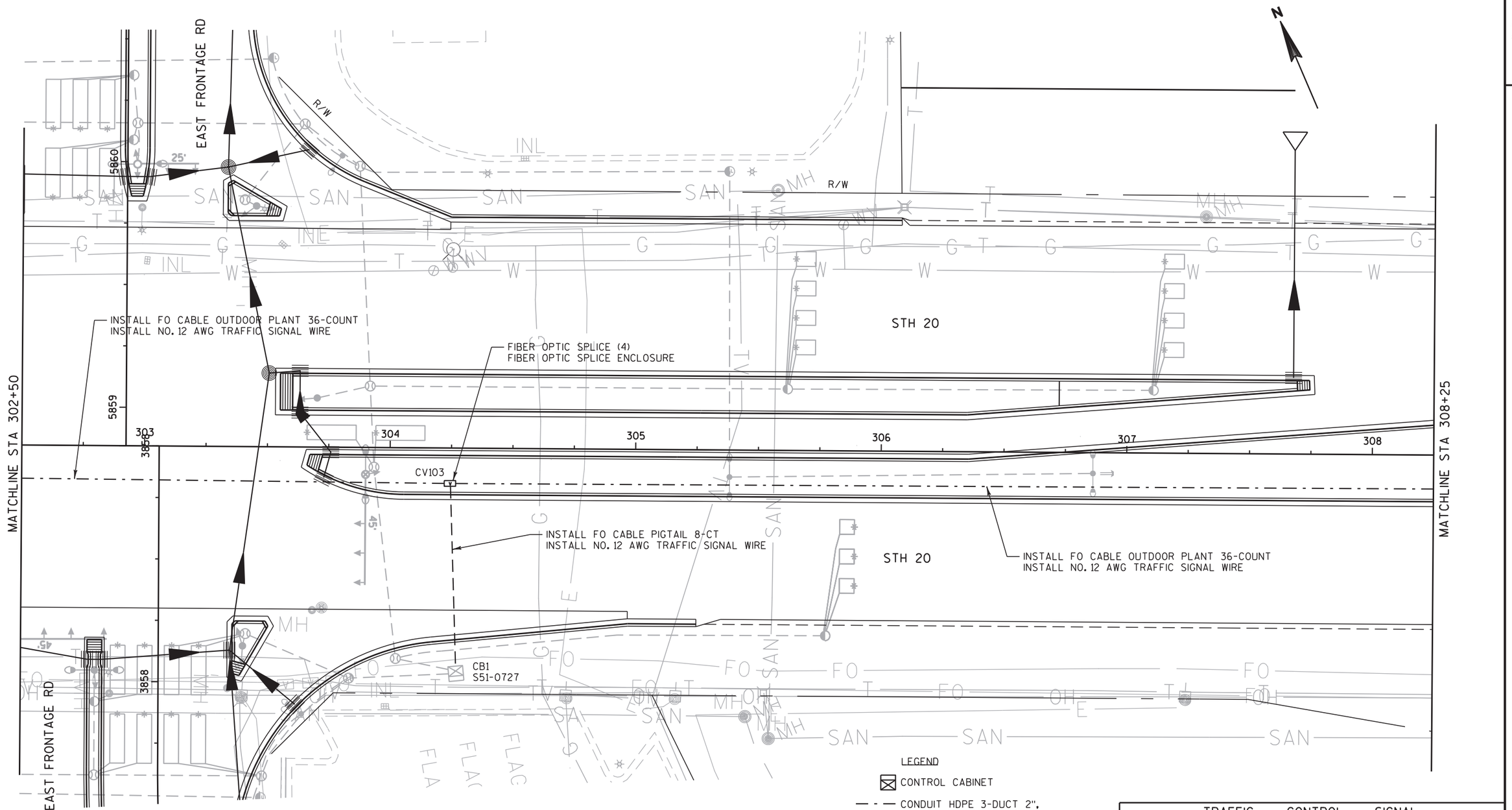
REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 300	E

FILE NAME : J:\projects\d2_10330294\71\SIG\IC\024604_ic.dgn PLOT DATE : 12-DEC-2019 06:44 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL SIGNAL

STH 20
TOWN OF YORKVILLE/
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0728, S51-0324, S51-0727, S51-1478, S51-1306

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 5 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 301	E

LEGEND

- CONTROL CABINET
- CONDUIT HDPE 3-DUCT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- COMMUNICATIONS VAULT

N

R/W

R/W

STH 20

INSTALL FO CABLE OUTDOOR PLANT 36-COUNT
INSTALL NO. 12 AWG TRAFFIC SIGNAL WIRE

INSTALL FO CABLE OUTDOOR PLANT 36-COUNT
INSTALL NO. 12 AWG TRAFFIC SIGNAL WIRE

MATCHLINE STA 308+25

309 310 311 312 313 314

MATCHLINE STA 314+25

CV104

STH 20

R/W

TRAFFIC CONTROL SIGNAL
STH 20
TOWN OF YORKVILLE/
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0728, S51-0324, S51-0727, S51-1478, S51-1306

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 6 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 302	E

FILE NAME : J:\projects\d2_10330294\71\SIG\IC\024606_ic.dgn PLOT DATE : 12-DEC-2019 06:44 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- CONDUIT HDPE 3-DUCT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- V COMMUNICATIONS VAULT

N

R/W

R/W

R/W

STH 20

I/C PB3

MATCHLINE STA 314+25

315

316

317

318

319

MATCHLINE STA 320+00

INSTALL FO CABLE OUTDOOR PLANT 36-COUNT
INSTALL NO. 12 AWG TRAFFIC SIGNAL WIRE

STH 20

INSTALL FO CABLE OUTDOOR PLANT 36-COUNT
INSTALL NO. 12 AWG TRAFFIC SIGNAL WIRE

I/C PB4

R/W

TRAFFIC CONTROL SIGNAL
STH 20
TOWN OF YORKVILLE/
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0728, S51-0324, S51-0727, S51-1478, S51-1306

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

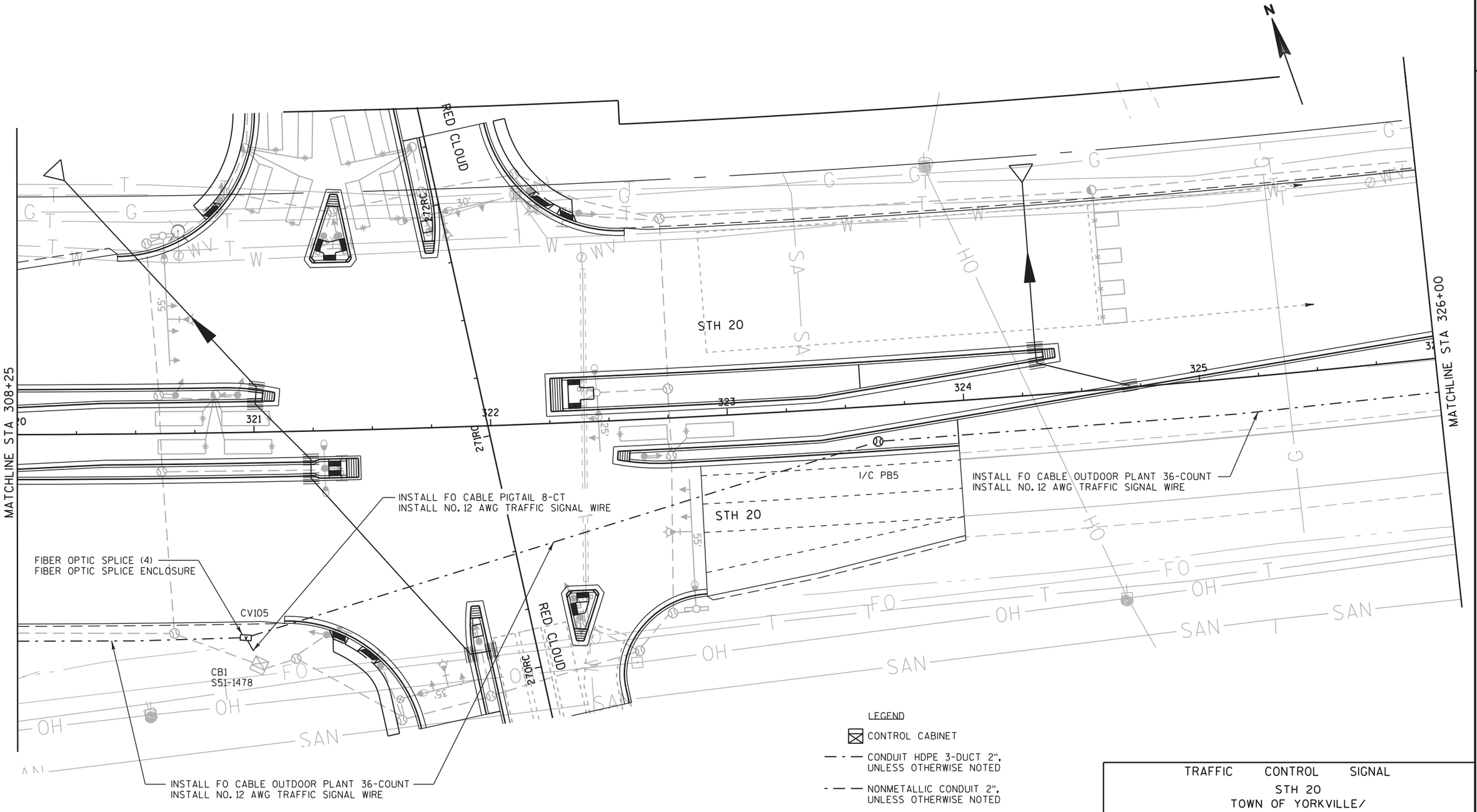
PAGE 7 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 303	E

FILE NAME : J:\projects\d2_10330294\71\SIG\IC\024607_ic.dgn PLOT DATE : 12-DEC-2019 06:44 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2



LEGEND

- CONTROL CABINET
- CONDUIT HDPE 3-DUCT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- V COMMUNICATIONS VAULT

TRAFFIC CONTROL SIGNAL
STH 20
TOWN OF YORKVILLE/
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0728, S51-0324, S51-0727, S51-1478, S51-1306

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 304	E

FILE NAME : J:\projects\d2_10330294\71\SIG\IC\024608_ic.dgn PLOT DATE : 12-DEC-2019 06:44 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- CONDUIT HDPE 3-DUCT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- V COMMUNICATIONS VAULT

N

R/W

STH 20

MATCHLINE STA 326+00

326 327 328 329 330 331

POST POST

INSTALL FO CABLE OUTDOOR PLANT 36-COUNT
INSTALL NO. 12 AWG TRAFFIC SIGNAL WIRE

STH 20

MATCHLINE STA 332+00

MATCHLINE

R/W

TRAFFIC CONTROL SIGNAL
STH 20
TOWN OF YORKVILLE/
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0728, S51-0324, S51-0727, S51-1478, S51-1306

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 9 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 305	E

FILE NAME : J:\projects\d2_10330294\71\SIG\IC\024609_ic.dgn PLOT DATE : 12-DEC-2019 06:44 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

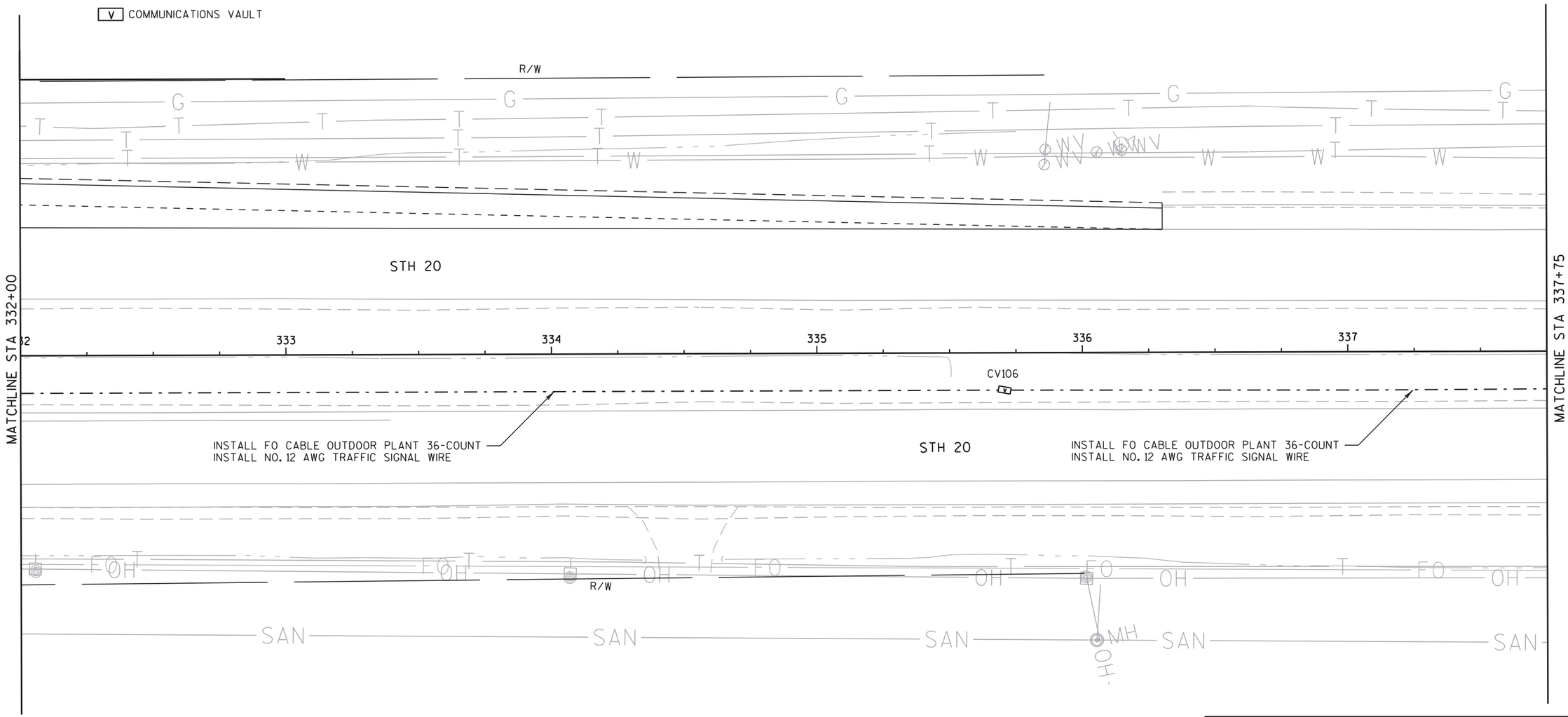
WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- CONDUIT HDPE 3-DUCT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- V COMMUNICATIONS VAULT

N



TRAFFIC CONTROL SIGNAL

STH 20
TOWN OF YORKVILLE/
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0728, S51-0324, S51-0727, S51-1478, S51-1306

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 10 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 306	E

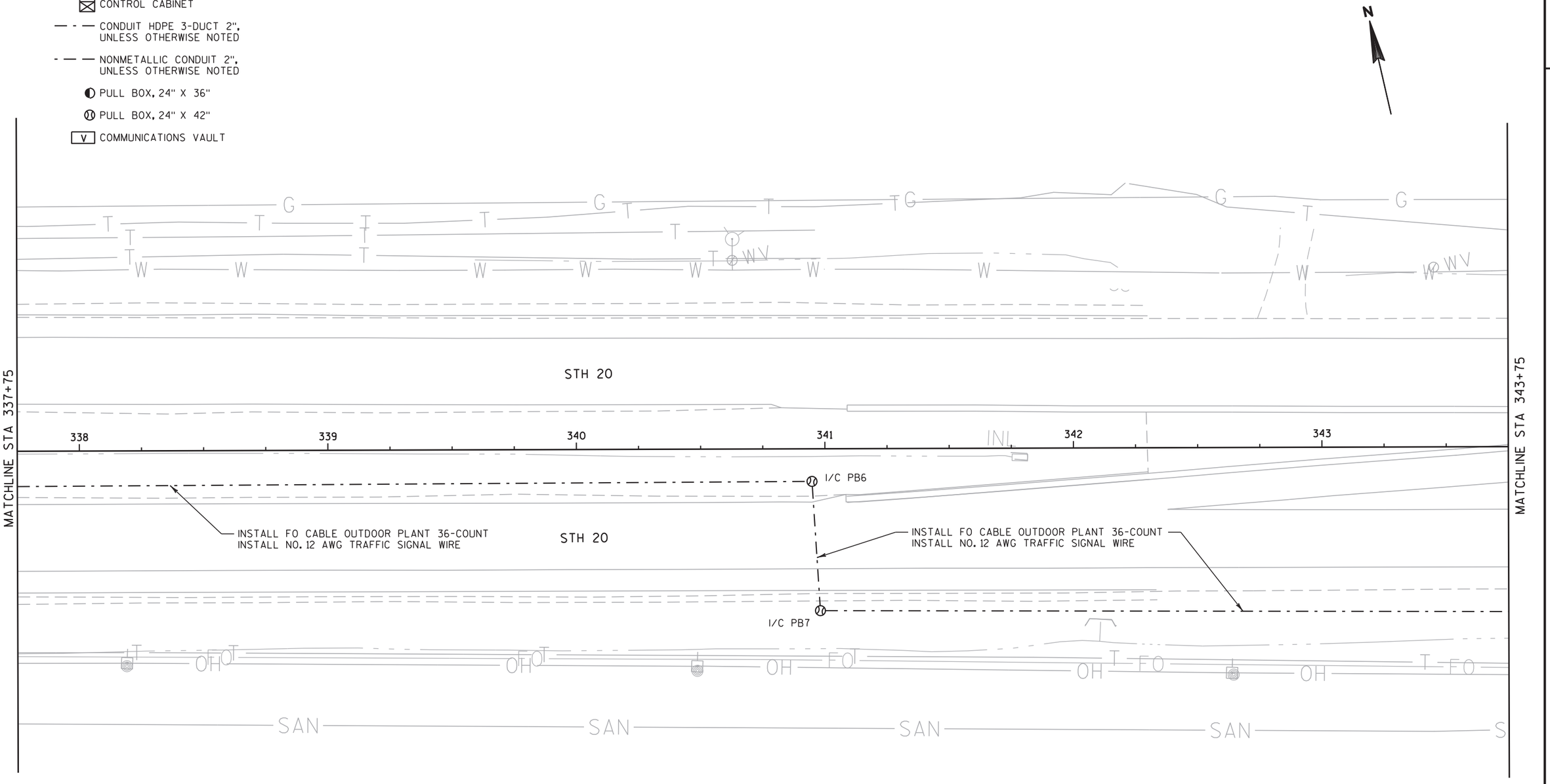
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WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- CONDUIT HDPE 3-DUCT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- COMMUNICATIONS VAULT



TRAFFIC CONTROL SIGNAL

STH 20
TOWN OF YORKVILLE/
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0728, S51-0324, S51-0727, S51-1478, S51-1306

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 11 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 307	E

FILE NAME : J:\projects\d2_10330294\71\SIG\IC\024611_ic.dgn PLOT DATE : 12-DEC-2019 06:44 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- CONDUIT HDPE 3-DUCT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- V COMMUNICATIONS VAULT

MATCHLINE STA 343+75

344

STH 20

INSTALL FO CABLE OUTDOOR PLANT 36-COUNT
INSTALL NO. 12 AWG TRAFFIC SIGNAL WIRE

STH 20

CTH V

137

136

30°

45°

MH

INL

CB1
S51-1306

INTERNATIONAL DR

SET

EX FO/IC

EXCV8

FIBER OPTIC SPLICE (4)
FIBER OPTIC SPLICE ENCLOSURE

TRAFFIC CONTROL SIGNAL

STH 20
TOWN OF YORKVILLE/
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0728, S51-0324, S51-0727, S51-1478, S51-1306

REGION CONTACT: M. COWAP
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 12 OF 12

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 308 E

FILE NAME : J:\projects\d2_10330294\71\SIG\IC\024612_ic.dgn PLOT DATE : 12-DEC-2019 06:44 PLOT BY : dotcmv PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

2

LEGEND

(1) MARKING LINE EPOXY 4-INCH (YELLOW)

(2) MARKING LINE EPOXY 4-INCH (WHITE)

(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)

(4) MARKING LINE EPOXY 4-INCH (DOT PATTERN WHITE)
(3 FT LINE 9 FT SKIP)

(5) MARKING LINE EPOXY 8-INCH (DOT PATTERN WHITE)
(3 FT LINE 9 FT SKIP)

(6) MARKING LINE EPOXY 8-INCH (WHITE)

(7) MARKING STOP LINE EPOXY 18-INCH (WHITE)

(10) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)

(11) MARKING DIAGONAL EPOXY 12-INCH (WHITE)

(14) MARKING WORDS EPOXY (WHITE)

(16) MARKING ARROWS EPOXY (TYPE 2)(WHITE)

(20) MARKING CURB EPOXY (YELLOW)

(21) MARKING ISLAND NOSE EPOXY (YELLOW)

(29) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)

(30) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)

(36) MARKING LINE EPOXY 4-INCH (DASHED YELLOW)
(12.5 FT LINE 37.5 FT SKIP)

(37) MARKING LINE EPOXY 4-INCH (DOT PATTERN YELLOW)
(3 FT LINE 9 FT SKIP)

(39) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (DOT PATTERN WHITE)
(3 FT LINE 9 FT SKIP)

(121) MARKING YIELD LINE EPOXY 18-INCH (WHITE)

(217) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)

(218) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)

(219) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (DOT PATTERN WHITE)
(3 FT LINE 9 FT SKIP)

(220) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE)
(3 FT LINE 9 FT SKIP)

(221) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)

(222) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE)
(2 FT LINE 6 FT SKIP)

(230) MARKING CONTRAST EPOXY SPECIAL MARKING ARROW (TYPE 2)(WHITE)

(234) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)

(235) MARKING CONTRAST EPOXY SPECIAL MARKING WORD (WHITE)

(236) MARKING CONTRAST EPOXY SPECIAL MARKING ARROW (TYPE 3)(WHITE)

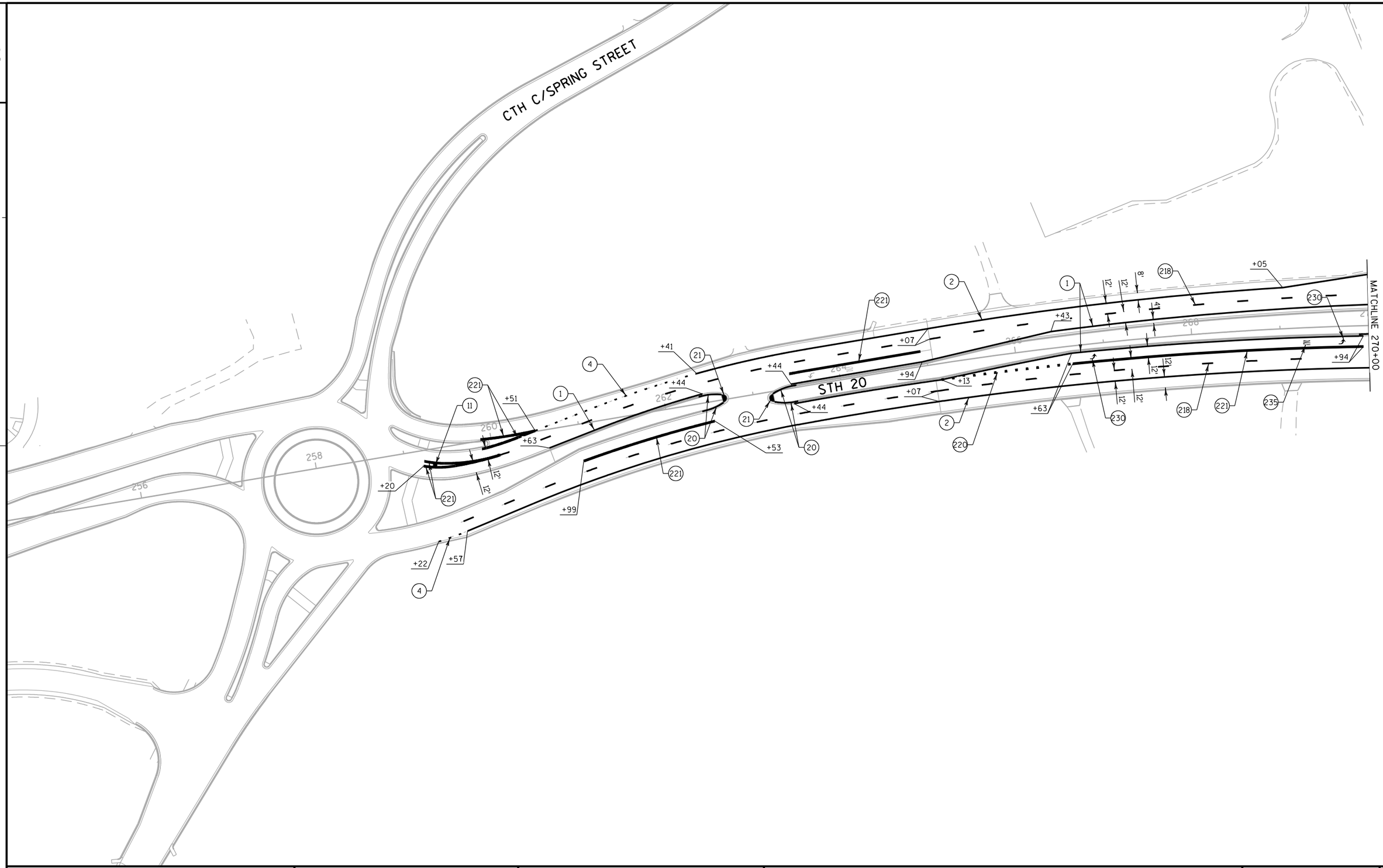
(245) MARKING CORRUGATED MEDIAN EPOXY (YELLOW)

(248) MARKING CONTRAST EPOXY SPECIAL MARKING ARROW (TYPE 1)(WHITE)

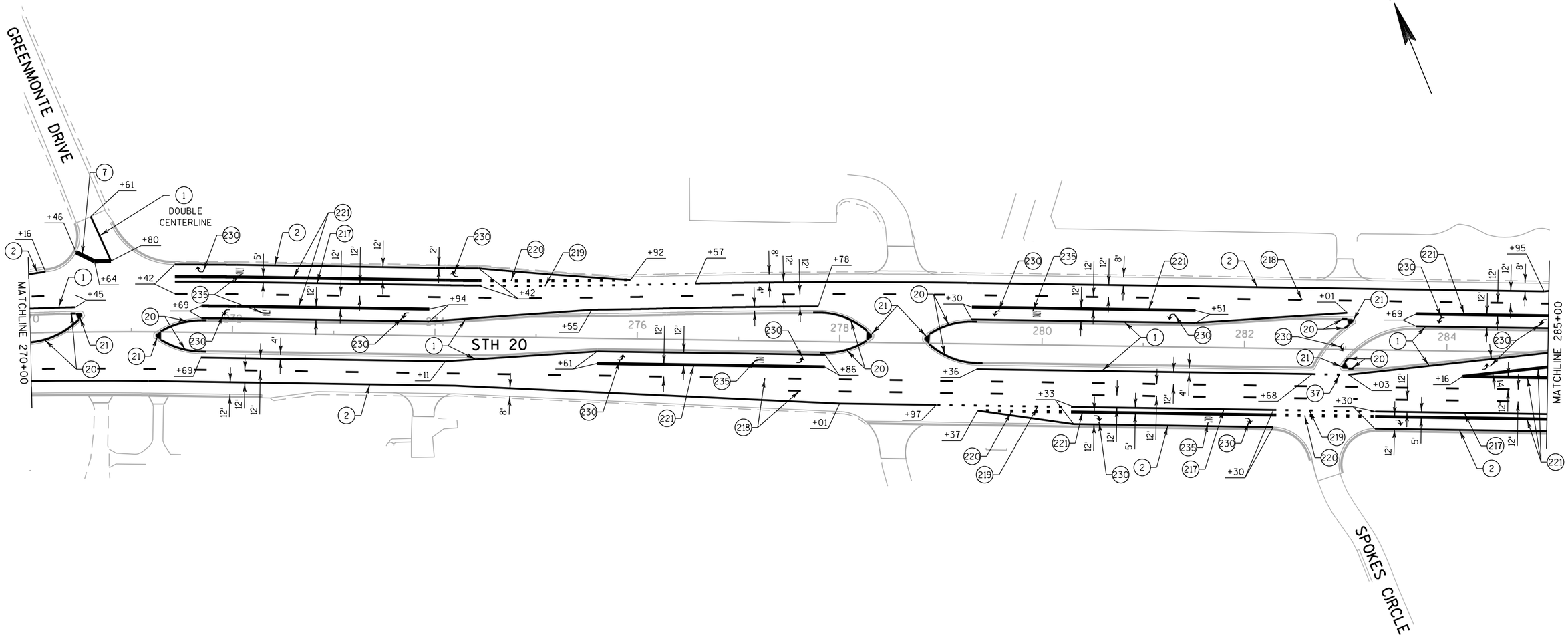
⊥ SINGLE DELINEATOR

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET	E

2



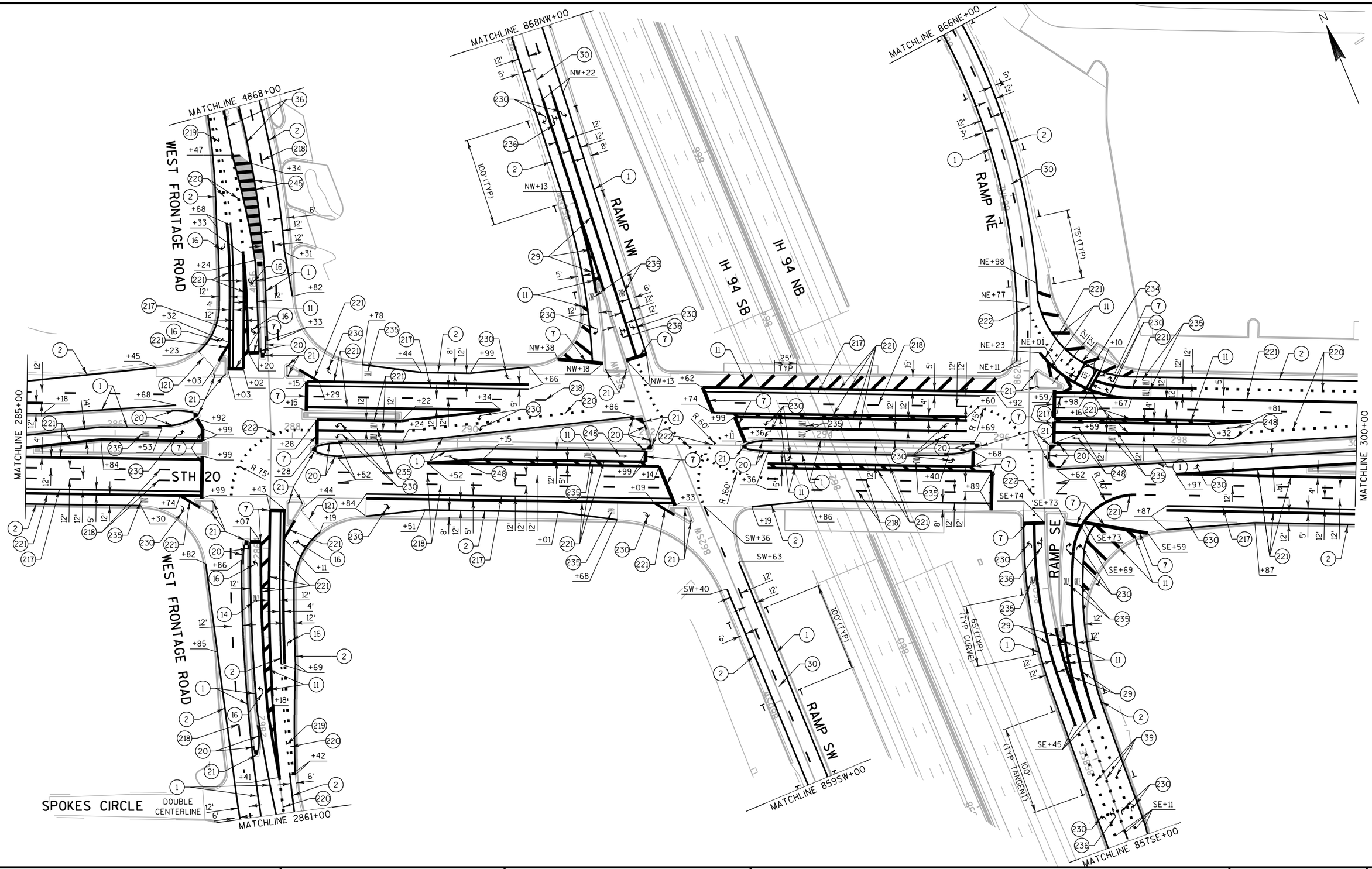
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET	E



2

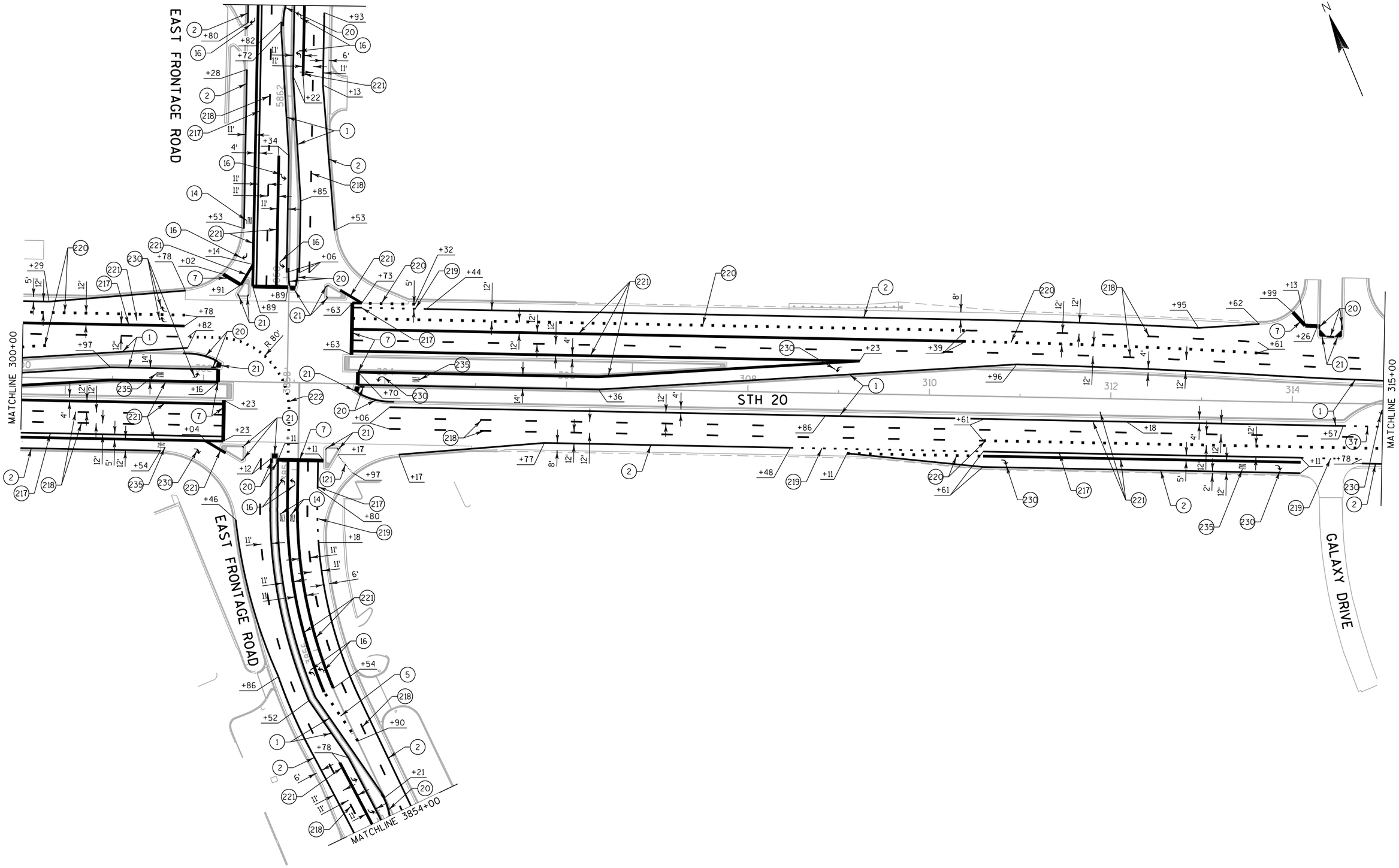
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET	E

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET	E

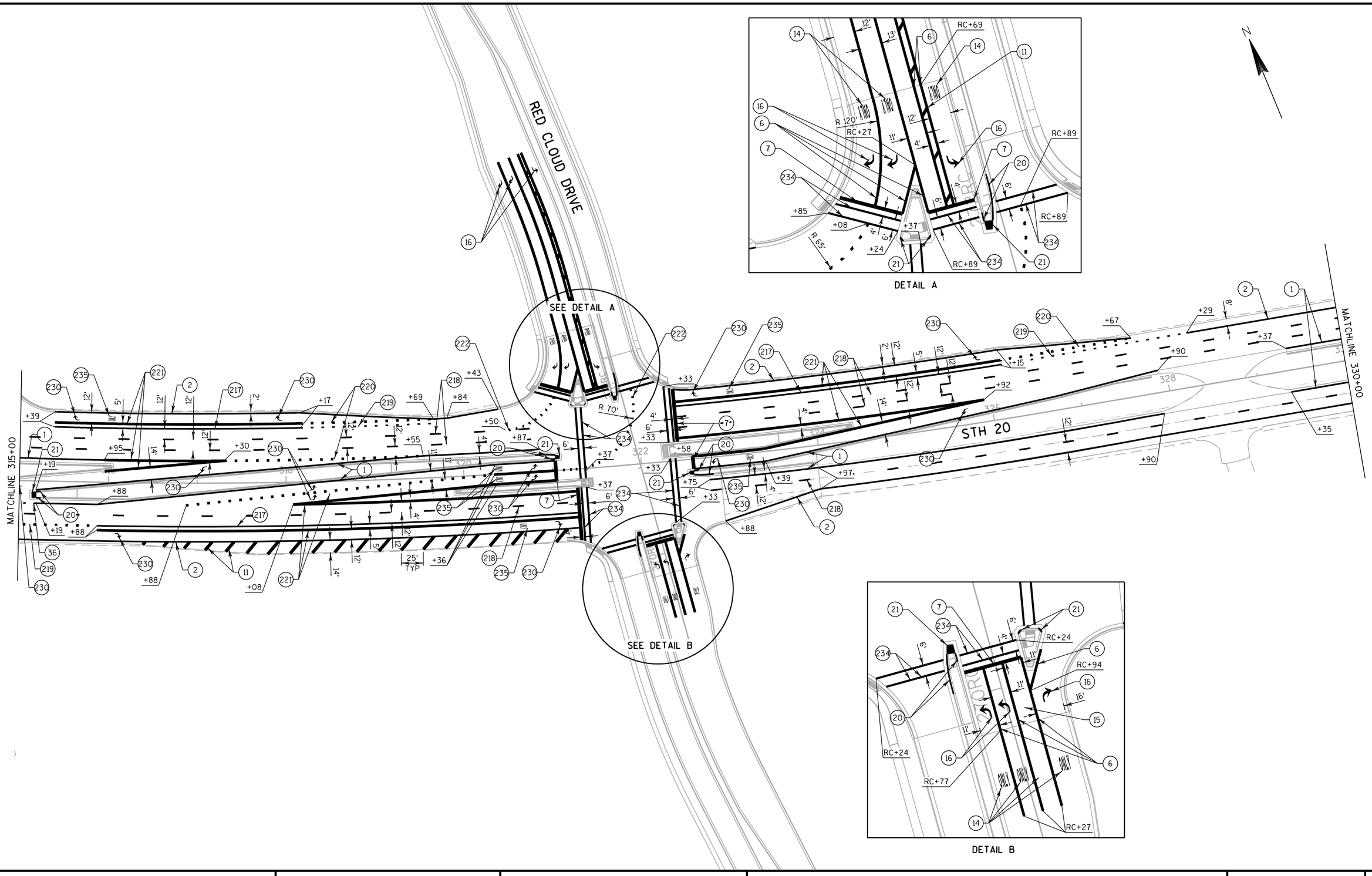
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\024504_pm.dgn PLOT DATE : 12-DEC-2019 02:50 PLOT BY : mscd1s PLOT NAME : 024504_pm PLOT SCALE : 100:1

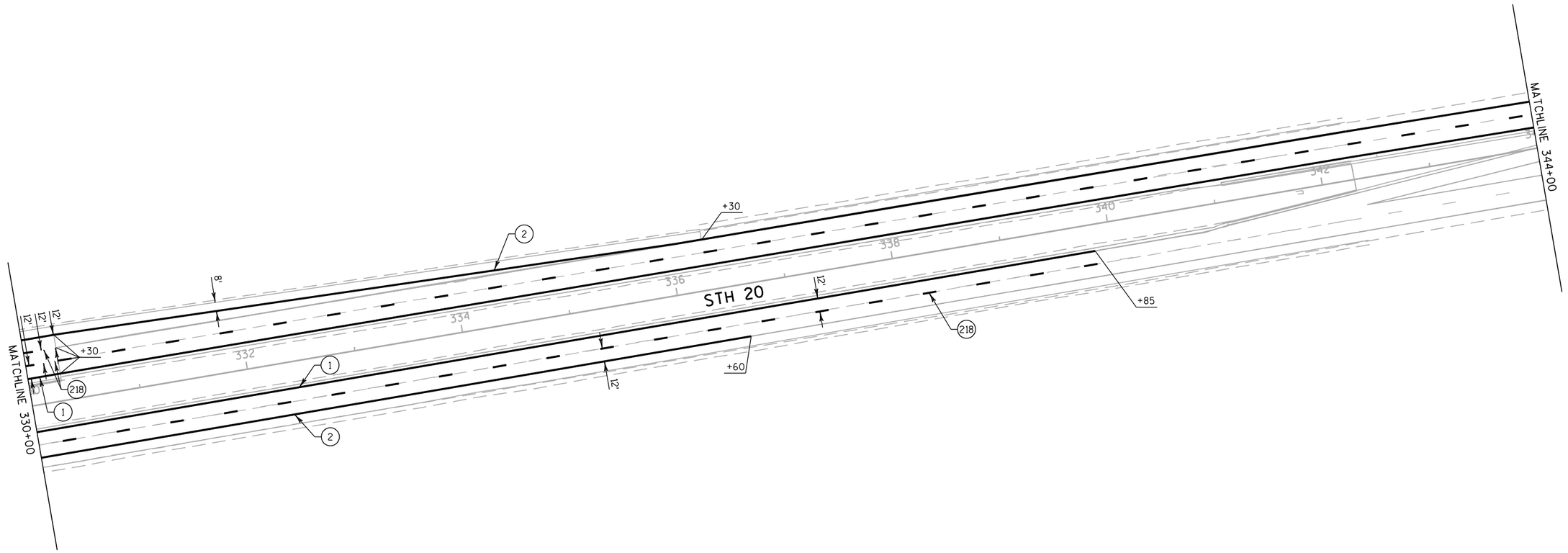
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET	E

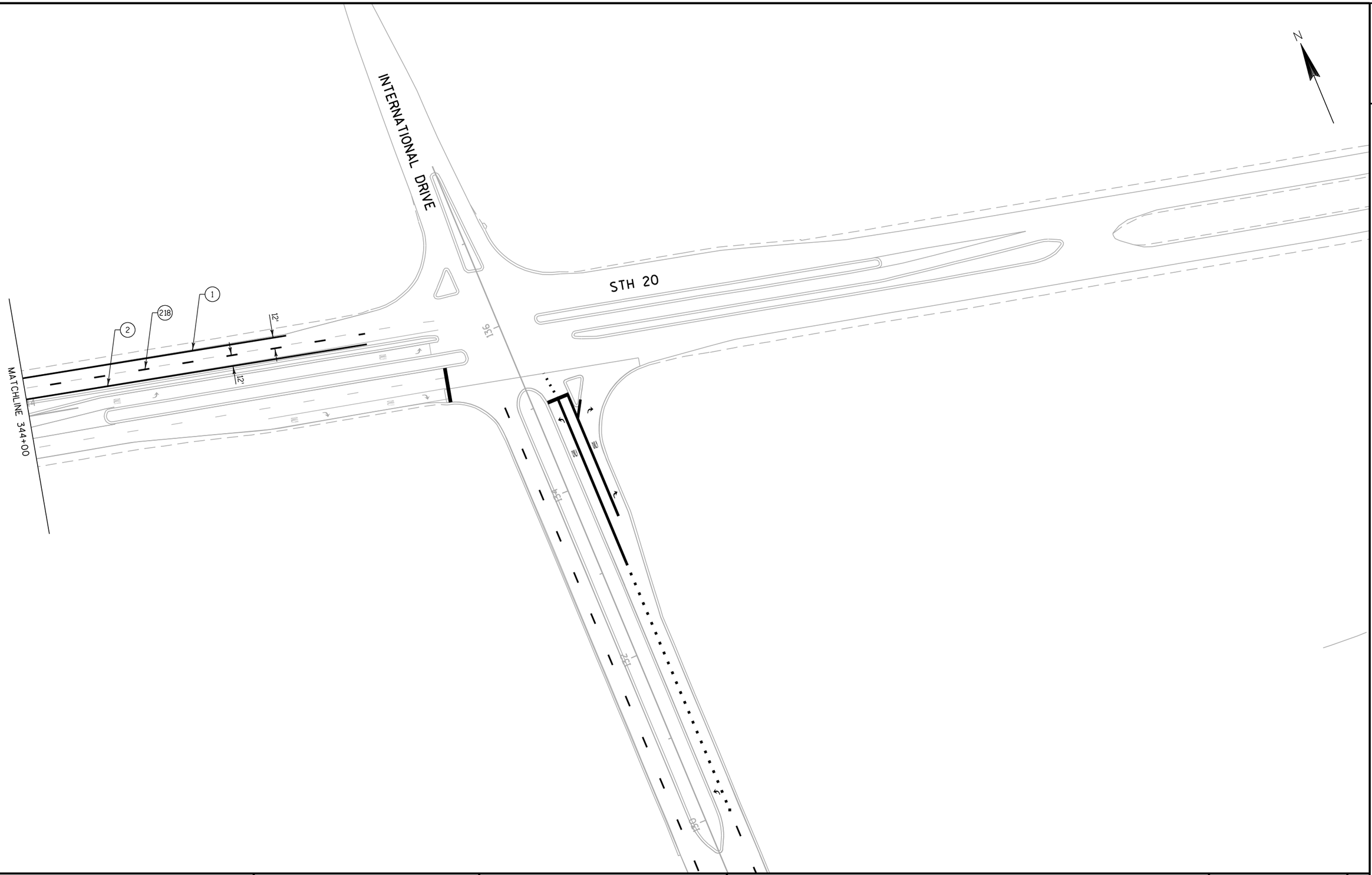
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET	E

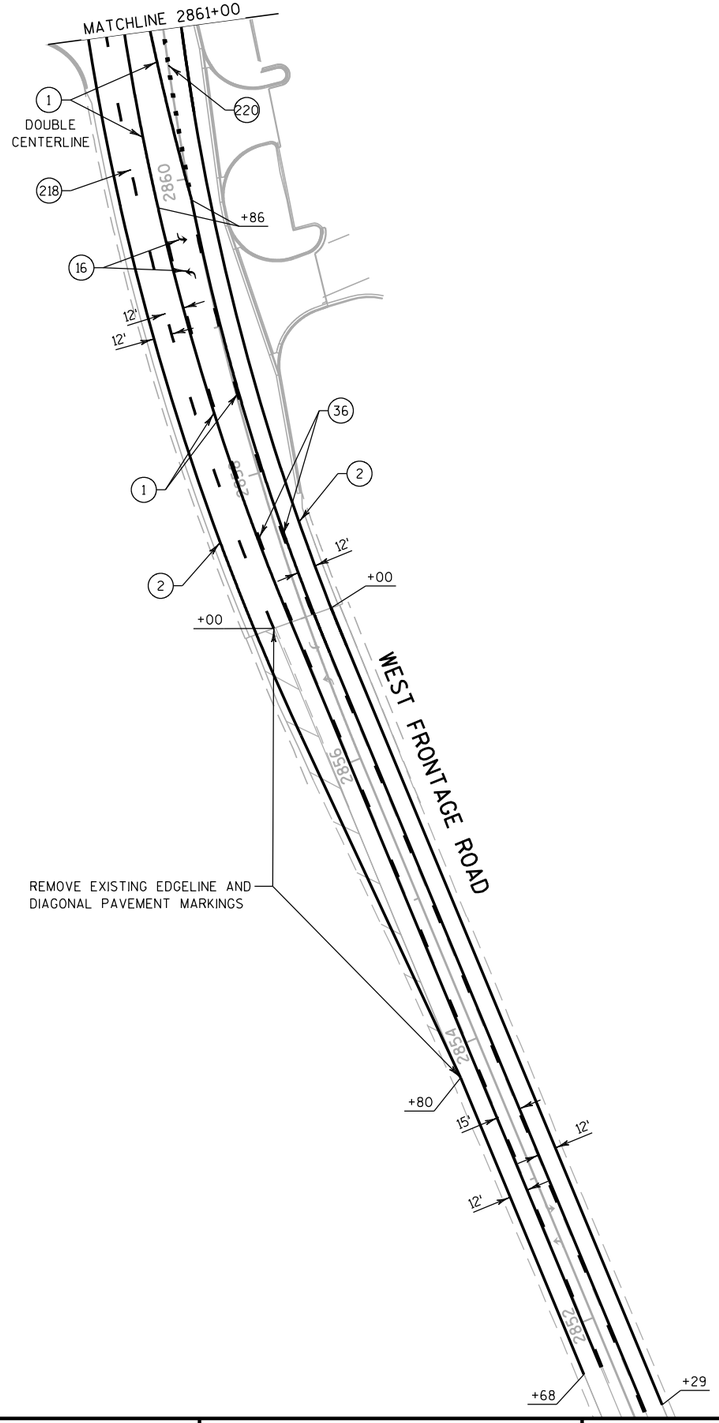
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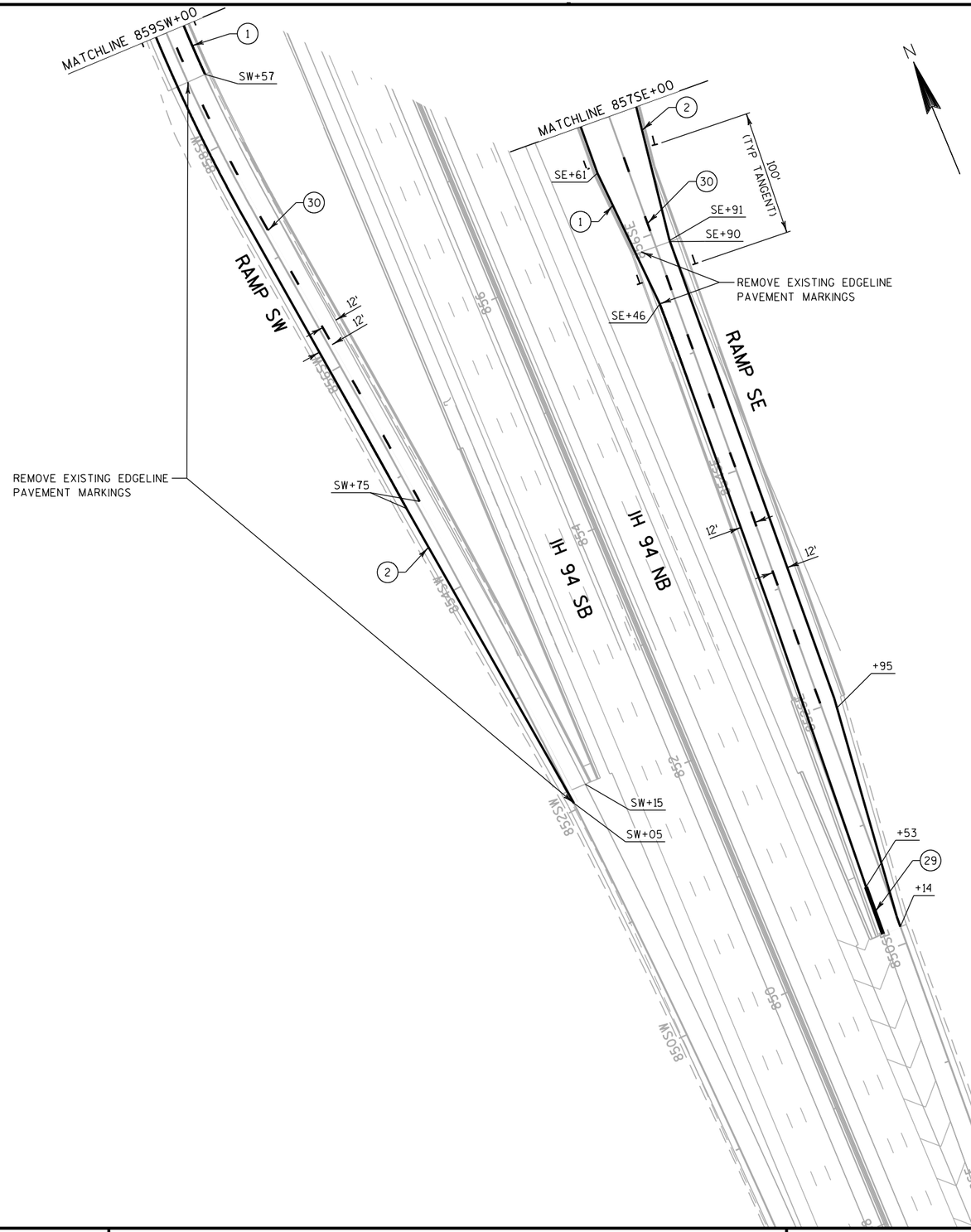


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\024507_pm.dgn PLOT DATE : 12-DEC-2019 02:50 PLOT BY : mscd1s PLOT NAME : 024507_pm PLOT SCALE : 100:1

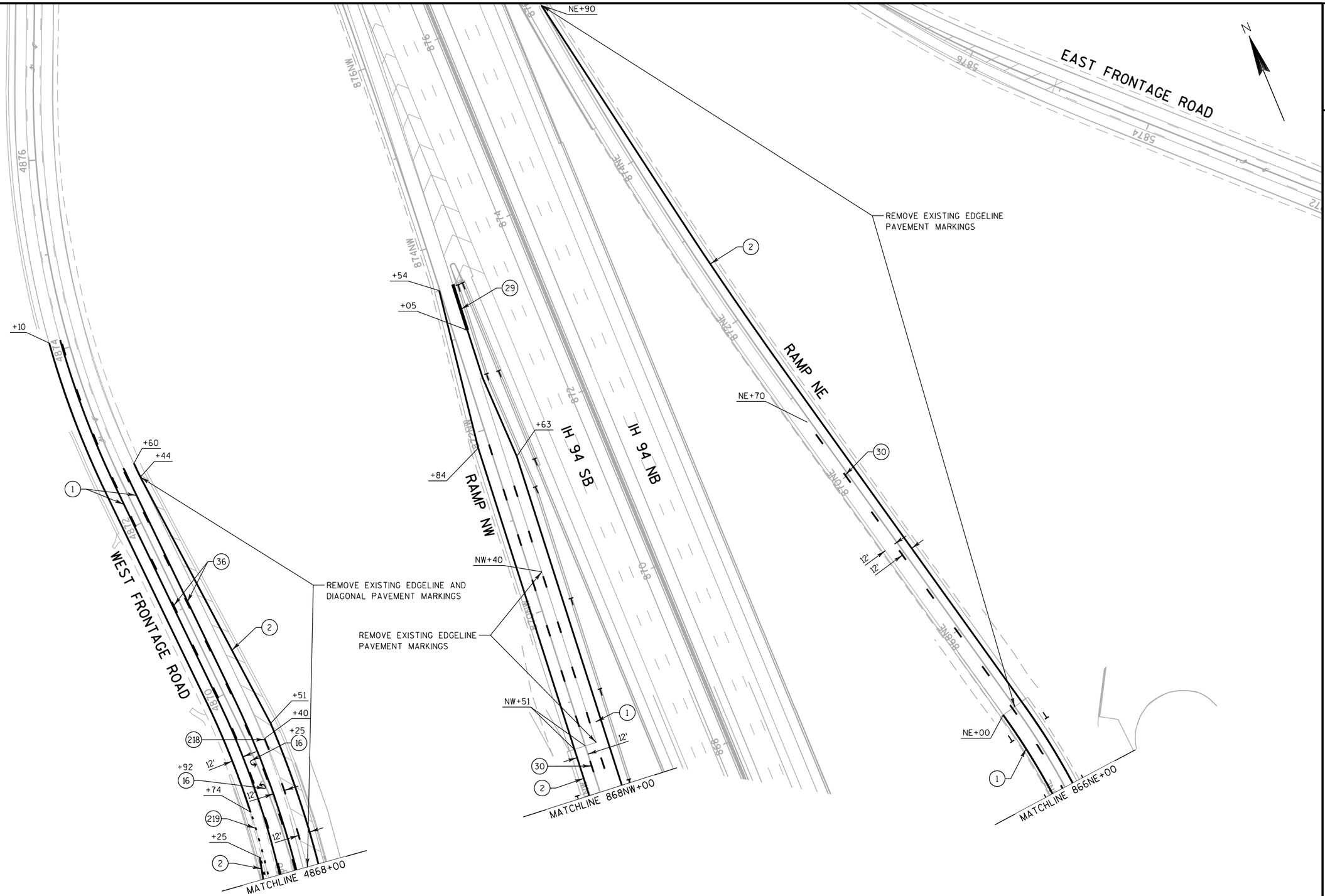
WISDOT/CADDS SHEET 42





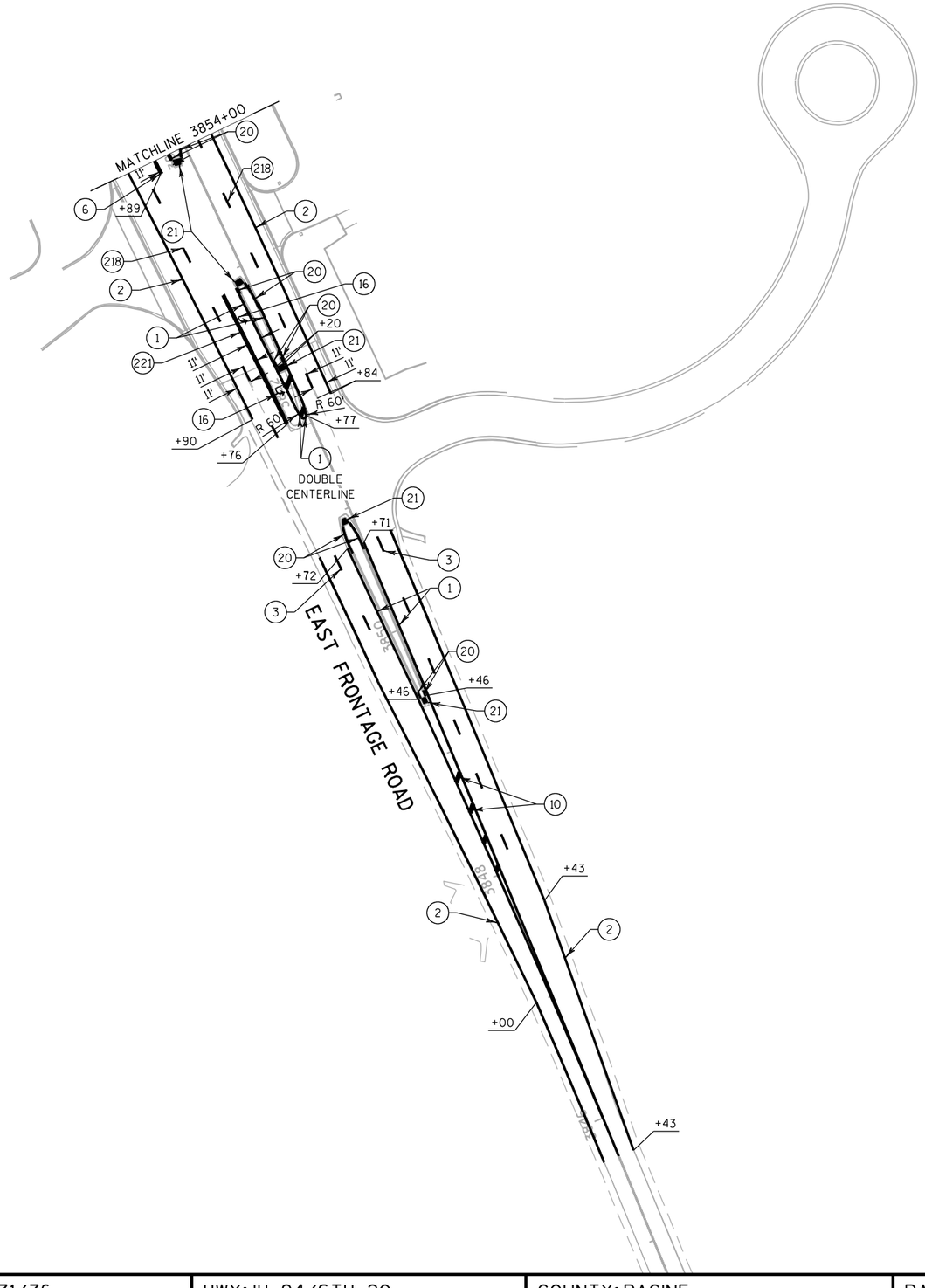
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2

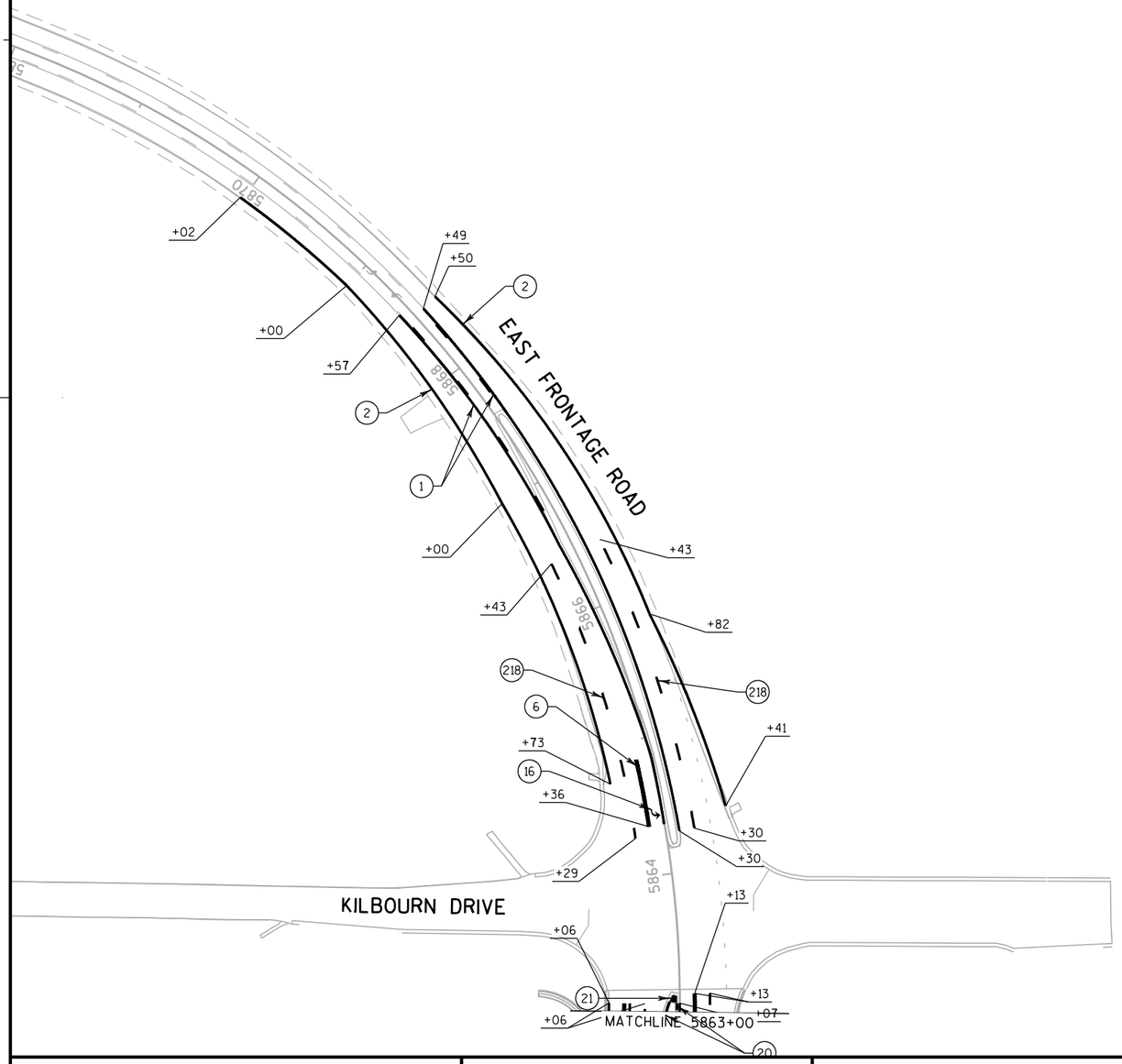


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET	E

2

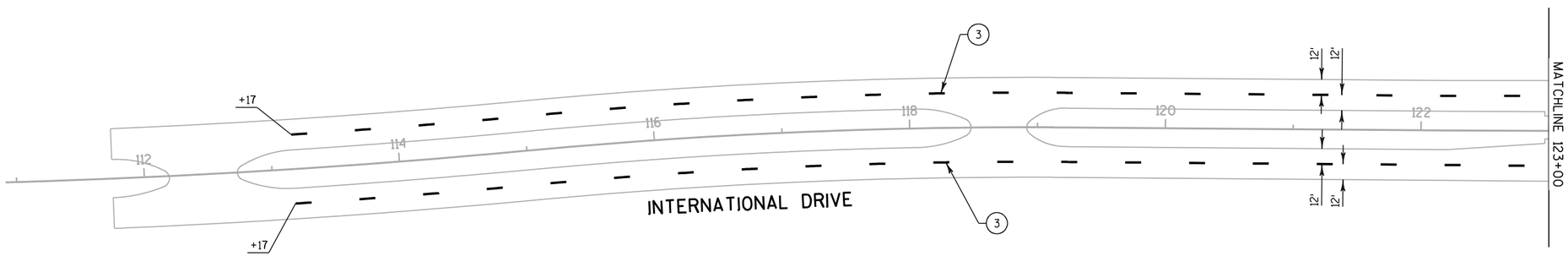

MATCHLINE 3854+00
11'
6
+89
21
218
2
20
218
2
20
16
20
+20
1
221
11'
11'
11'
11'
21
11'
+84
16
+90
R 60'
R 60'
+77
+76
1
DOUBLE
CENTERLINE
21
+71
20
+72
3
3
1
EAST FRONTAGE ROAD
20
+46
+46
21
10
+43
2
2
+00
+43

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET	E

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET	E

2

N

MATCHLINE 123+00

12'
12'

124
126
128
130
132
134
136

+99
+16
+00
+42
+80
+00
+52
+70
+89
+00
+32

12'
14'
12'
12'
12'
12'

INTERNATIONAL DRIVE

STH 20

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\024513_pm.dgn PLOT DATE : 12-DEC-2019 02:51 PLOT BY : mscd1s PLOT NAME : 024513_pm PLOT SCALE : 100:1

2

BID ITEM TRAFFIC CONTROL 1033-02-71 INCLUDES PAYMENT FOR FURNISHING THE LABOR AND EQUIPMENT FOR CLOSING AND SUBSEQUENTLY OPENING LANE CLOSURES AND FULL ROADWAY CLOSURES FOR ALL ROADS AS NEEDED TO COMPLETE CONTRACT WORK.

GENERAL NOTES FOR TRAFFIC CONTROL

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

2) CONFLICTING TRAFFIC SIGNS SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER. COVERING OR REMOVAL OF SIGNS WILL BE PAID FOR UNDER THE APPROPRIATE BID ITEM.

3) A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE WORK AREAS IF WARRANTED BY CONDITIONS OR AS DIRECTED BY THE ENGINEER. HOWEVER, CONTRACTOR SHALL NOT USE FLAG PERSONS TO DIRECT, STOP OR CONTROL TRAFFIC ON IH 94 AT ANY TIME.

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

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

6) FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A TYPE C STEADY BURN WARNING LIGHT.

7) ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.

8) DIMENSIONS TO CONCRETE BARRIER TEMPORARY PRECAST ARE TO THE FACE OF BARRIER ADJACENT TO TRAFFIC. STATION CALL-OUTS TO CONCRETE BARRIER TEMPORARY PRECAST ARE TO THE FACE OF THE BARRIER.

9) THE FACE OF CONCRETE BARRIER TEMPORARY PRECAST ADJACENT TO TRAFFIC SHALL BE PLACED 2 FEET FROM THE EDGE OF TRAVEL WAY UNLESS OTHERWISE NOTED.

10) WORK AREAS SHOWN MAY NOT ILLUSTRATE ALL REMOVALS. SEE REMOVAL SHEETS FOR ADDITIONAL INFORMATION.

11) ALL TEMPORARY RAISED PAVEMENT MARKERS SHALL MATCH THE LINE COLOR OF THE CORRESPONDING PAVEMENT MARKING AND SHALL BE SPACED 25' CENTER TO CENTER ON EDGE LINES OR 50' CENTER TO CENTER ON LANE LINES (UNLESS OTHERWISE NOTED).

12) ALL TRAFFIC CONTROL SIGNS LOCATED IN FREEWAY MEDIANS SHALL BE MOUNTED ON CONCRETE BARRIER UNLESS OTHERWISE NOTED, SEE TRAFFIC CONTROL DETAILS.

13) WHEN A SEGMENT OF THE PROJECT IS NOT SHOWN ON THE STAGING PLANS, USE THE SAME TRAFFIC CONTROL AS THE PREVIOUS STAGE FOR THAT SEGMENT.

GENERAL NOTES FOR FIXED MESSAGE SIGNS FOUND ON TRAFFIC CONTROL SHEETS

1) CONTRACTOR SHALL LOCATE FIXED MESSAGE SIGNS A MINIMUM OF 400' FROM ANY TYPE I SIGN AND A MINIMUM OF 200' FROM ANY TYPE II SIGN, OR AS DIRECTED BY THE ENGINEER.

2) ALL FIXED MESSAGE SIGNS SHALL BE IN ACCORDANCE WITH "WISDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.

3) "BEGIN XXX XX" SIGNS SHALL BE PLACED 10 DAYS PRIOR TO DATE SPECIFIED.

4) "BEGIN XXX XX" SIGNS SHALL BE SEPARATE PANELS AND ARE CONSIDERED AS PART OF THE SIGN AND SHOULD BE REMOVED OR COVERED AFTER THIER EFFECTIVE DATE. THE MONTH AND DAY SHALL BE DIRECTED BY THE ENGINEER IN THE FIELD.

5) SEE FIXED MESSAGE SIGN CONSTRUCTION DETAIL SHEETS FOR MORE INFORMATION.

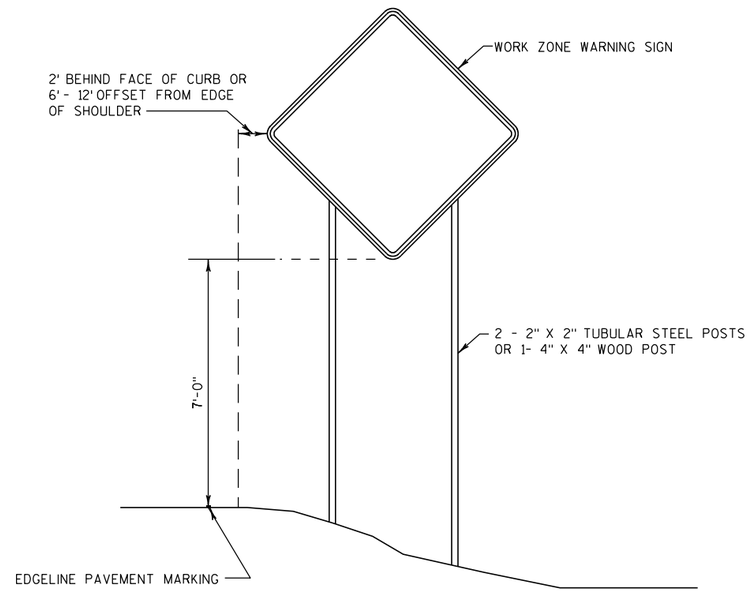
STAGING LEGEND

- TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A
- TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A AND ATTACHED SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A AND ATTACHED SIGN PLACED IN PRIOR STAGE
- FIXED MESSAGE SIGN SURFACE MOUNT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL ARROW BOARD
- SIGN ON TEMPORARY SUPPORT
- PCMS — TRAFFIC CONTROL SIGN PORTABLE CHANGEABLE MESSAGE
- QWS — PORTABLE AUTOMATED REAL-TIME TRAFFIC QUEUE WARNING SYSTEM
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C PLACED IN PRIOR STAGE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM PLACED IN PRIOR STAGE
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER PLACED IN PRIOR STAGE
- CONCRETE BARRIER TEMPORARY PRECAST (CBTP)
- CONCRETE BARRIER TEMPORARY PRECAST PLACED IN PRIOR STAGE
- TRAFFIC FLOW ARROW
- WORK ZONE THIS STAGE
- TEMPORARY PAVEMENT

TEMPORARY PAVEMENT MARKING LEGEND

- (45) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- (46) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- (49) TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- (50) TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
- (51) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
- (52) TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
- (112) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
- (113) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOT PATTERN YELLOW) (3 FT LINE 9 FT SKIP)
- (212) TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH (YELLOW)
- (239) TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW)
- (240) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
- (241) TEMPORARY MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
- (242) TEMPORARY MARKING LINE EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
- (243) TEMPORARY MARKING LINE EPOXY 8-INCH (WHITE)
- (246) TEMPORARY MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (247) TEMPORARY MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (249) TEMPORARY MARKING ARROW EPOXY (TYPE 2)(WHITE)
- (P) PERMANENT PAVEMENT MARKING, SEE PAVEMENT MARKING PLAN
- ▶ TEMPORARY RAISED PAVEMENT MARKERS (ONE-WAY REFLECTOR)

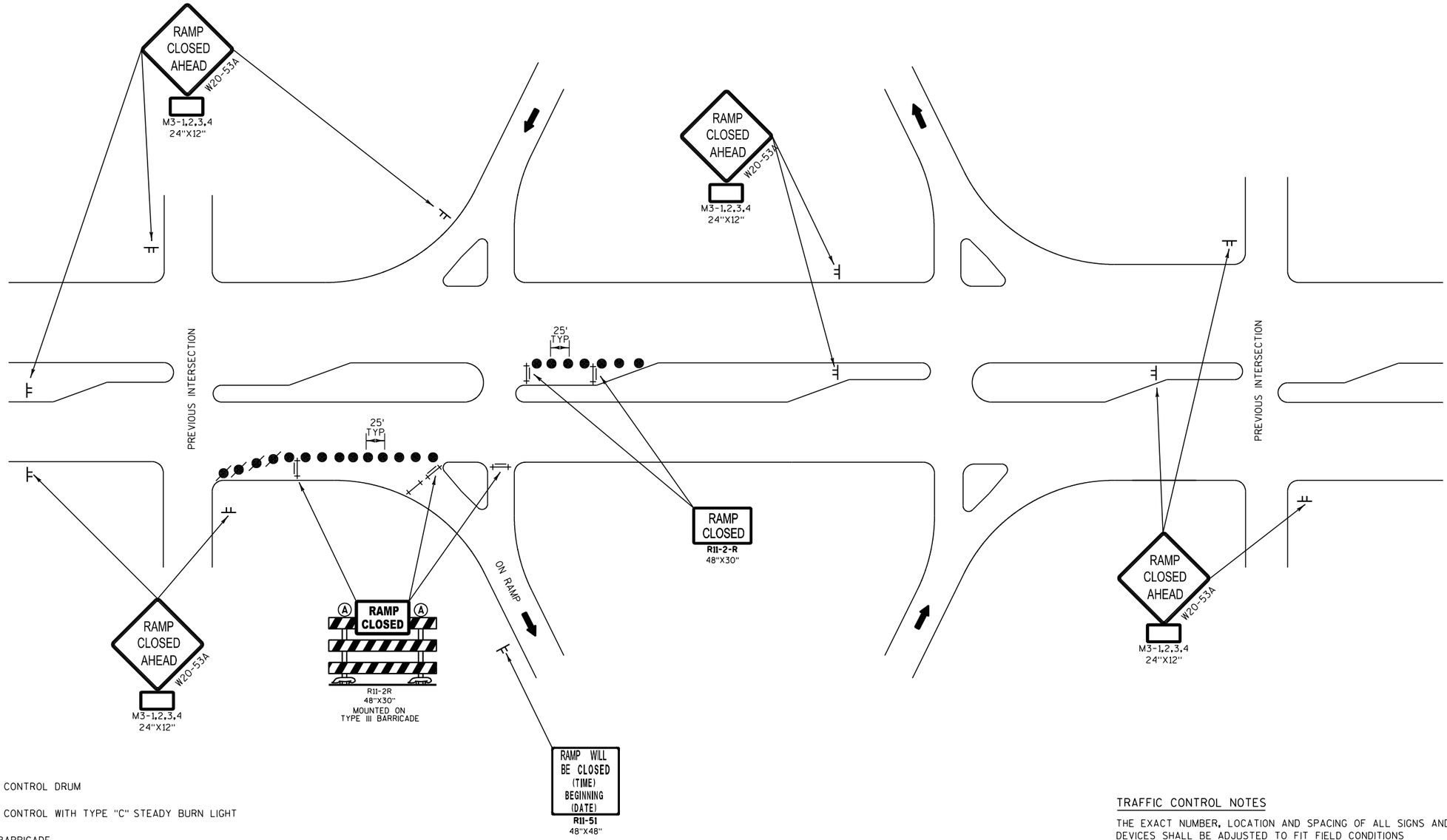
2



TYPICAL TEMPORARY TRAFFIC CONTROL SIGN MOUNTING ON FIXED SUPPORT

LONG TERM
7 DAYS OR MORE

2



LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH 2 TYPE "A" WARNING LIGHT (FLASHING)
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL 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 ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

SHORT TERM DEFINED AS 7 DAYS/NIGHTS OR LESS. FOR NIGHT TIME OPERATIONS ALL DRUMS IN TAPERS SHALL HAVE WARNING LIGHT, TYPE C (STEADY BURN). MAY BE APPLIED TO ARTERIALS OR LOCAL ROADS.

TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE
SHORT TERM ONLY

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TRAFFIC CONTROL - CONSTRUCTION DETAILS	SHEET	E

EXIT 333
20
Racine
Mt Pleasant
1 1/2 MILES

(B) NO RE-ENTRY TO FREEWAY

FMS
144" X 48"
MOUNT UNDER EXISTING
EXIT 333 SIGN 1000'
SOUTH OF 2 MILE RD

(B) NO RE-ENTRY TO FREEWAY

FMS
144" X 48"
GROUND MOUNT ADJACENT
TO EXISTING EXIT 333 SIGN
STA 884+50

ROAD WORK AHEAD W20-1A
ROAD WORK 1000 FT W20-1C
ROAD WORK 500 FT W20-1D
ROAD WORK 250 FT W20-1(MOD)
END ROAD WORK G20-2A 48" X 24"

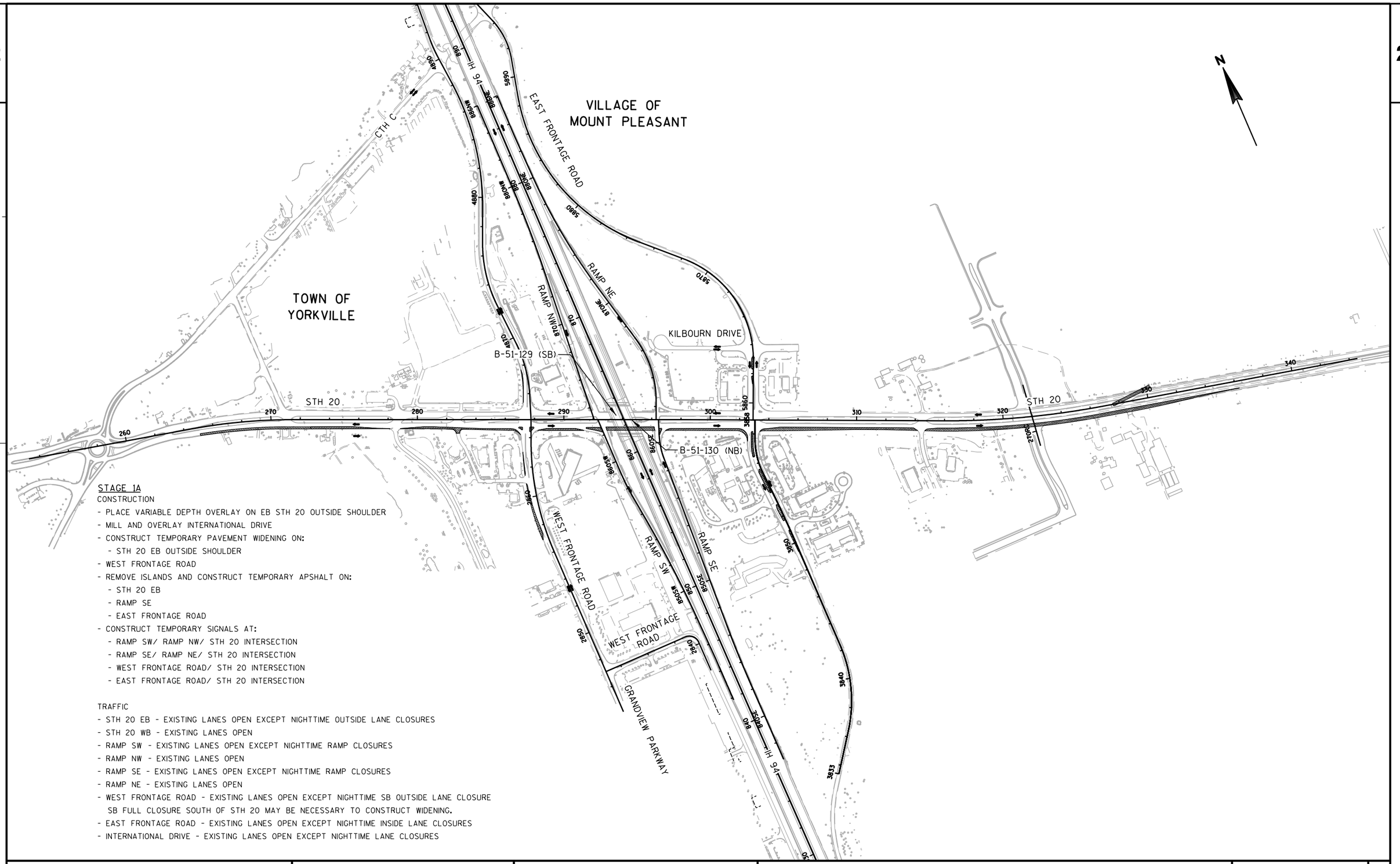
CTH C/SPRING STREET
EAST FRONTAGE ROAD
IH 94
RAMP NE
RAMP NW
RAMP SW
RAMP SE
KILBOURN DRIVE
STH 20
WEST FRONTAGE ROAD
GRANDVIEW PARKWAY

(A) STAGES 1A, 1B, 4A, 4B ONLY
(B) STAGES 2A, 2B, 2C, 3A, 3B, 3C ONLY

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	TRAFFIC CONTROL - ADVANCED SIGNING	SHEET E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\025104_tc.dgn PLOT DATE : 12-DEC-2019 14:16 PLOT BY : MSCNEG PLOT NAME : PLOT SCALE : 600:1

2



STAGE 1A

CONSTRUCTION

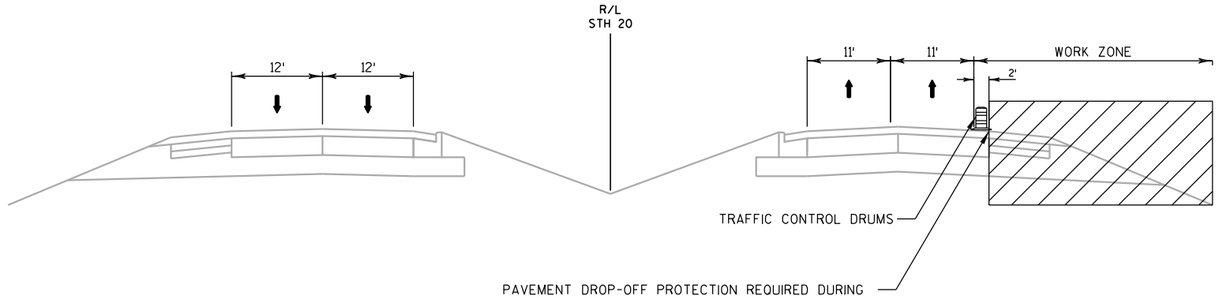
- PLACE VARIABLE DEPTH OVERLAY ON EB STH 20 OUTSIDE SHOULDER
- MILL AND OVERLAY INTERNATIONAL DRIVE
- CONSTRUCT TEMPORARY PAVEMENT WIDENING ON:
  - STH 20 EB OUTSIDE SHOULDER
- WEST FRONTAGE ROAD
- REMOVE ISLANDS AND CONSTRUCT TEMPORARY APSHALT ON:
  - STH 20 EB
  - RAMP SE
  - EAST FRONTAGE ROAD
- CONSTRUCT TEMPORARY SIGNALS AT:
  - RAMP SW/ RAMP NW/ STH 20 INTERSECTION
  - RAMP SE/ RAMP NE/ STH 20 INTERSECTION
  - WEST FRONTAGE ROAD/ STH 20 INTERSECTION
  - EAST FRONTAGE ROAD/ STH 20 INTERSECTION

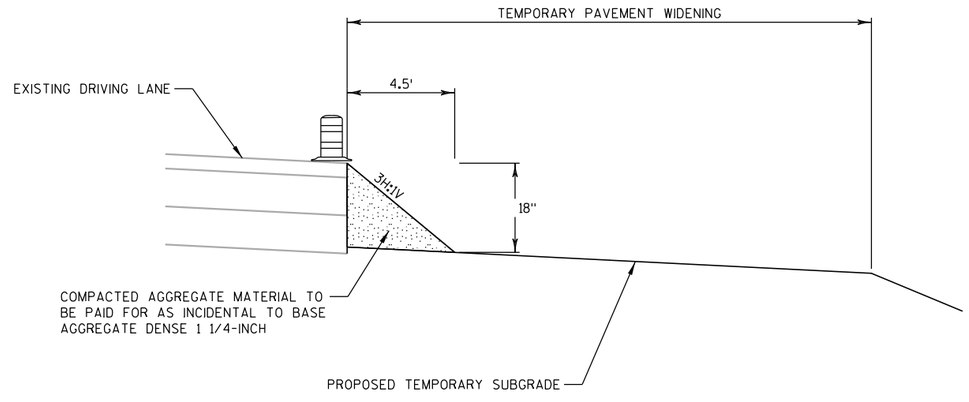
TRAFFIC

- STH 20 EB - EXISTING LANES OPEN EXCEPT NIGHTTIME OUTSIDE LANE CLOSURES
- STH 20 WB - EXISTING LANES OPEN
- RAMP SW - EXISTING LANES OPEN EXCEPT NIGHTTIME RAMP CLOSURES
- RAMP NW - EXISTING LANES OPEN
- RAMP SE - EXISTING LANES OPEN EXCEPT NIGHTTIME RAMP CLOSURES
- RAMP NE - EXISTING LANES OPEN
- WEST FRONTAGE ROAD - EXISTING LANES OPEN EXCEPT NIGHTTIME SB OUTSIDE LANE CLOSURE
  SB FULL CLOSURE SOUTH OF STH 20 MAY BE NECESSARY TO CONSTRUCT WIDENING.
- EAST FRONTAGE ROAD - EXISTING LANES OPEN EXCEPT NIGHTTIME INSIDE LANE CLOSURES
- INTERNATIONAL DRIVE - EXISTING LANES OPEN EXCEPT NIGHTTIME LANE CLOSURES

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE CONSTRUCTION: OVERVIEW - STAGE 1A	SHEET	E

2





PAVEMENT DROP-OFF PROTECTION DETAIL

STAGE 1A TYPICAL SECTION

STH 20
LOOKING EAST

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE CONSTRUCTION: TYPICAL SECTIONS - STAGE 1A	SHEET	E

2

CTH C/SPRING STREET

STH 20

256 258 260 262 264 266 268

+25.09
30.26' RT

+06.59
42.18' RT
2" MILL &
OVERLAY

+18.54
42.47' RT

+06.61
55.18' RT
2" MILL &
OVERLAY

12'
12'
11'
11'
14'

25' TYP

50' TYP

R=3500'

(240)

(241)

MATCHLINE 270+00

MAINTAIN DRIVEWAY ACCESS

W01-6
48" X 24"

TYPE III BARRICADE

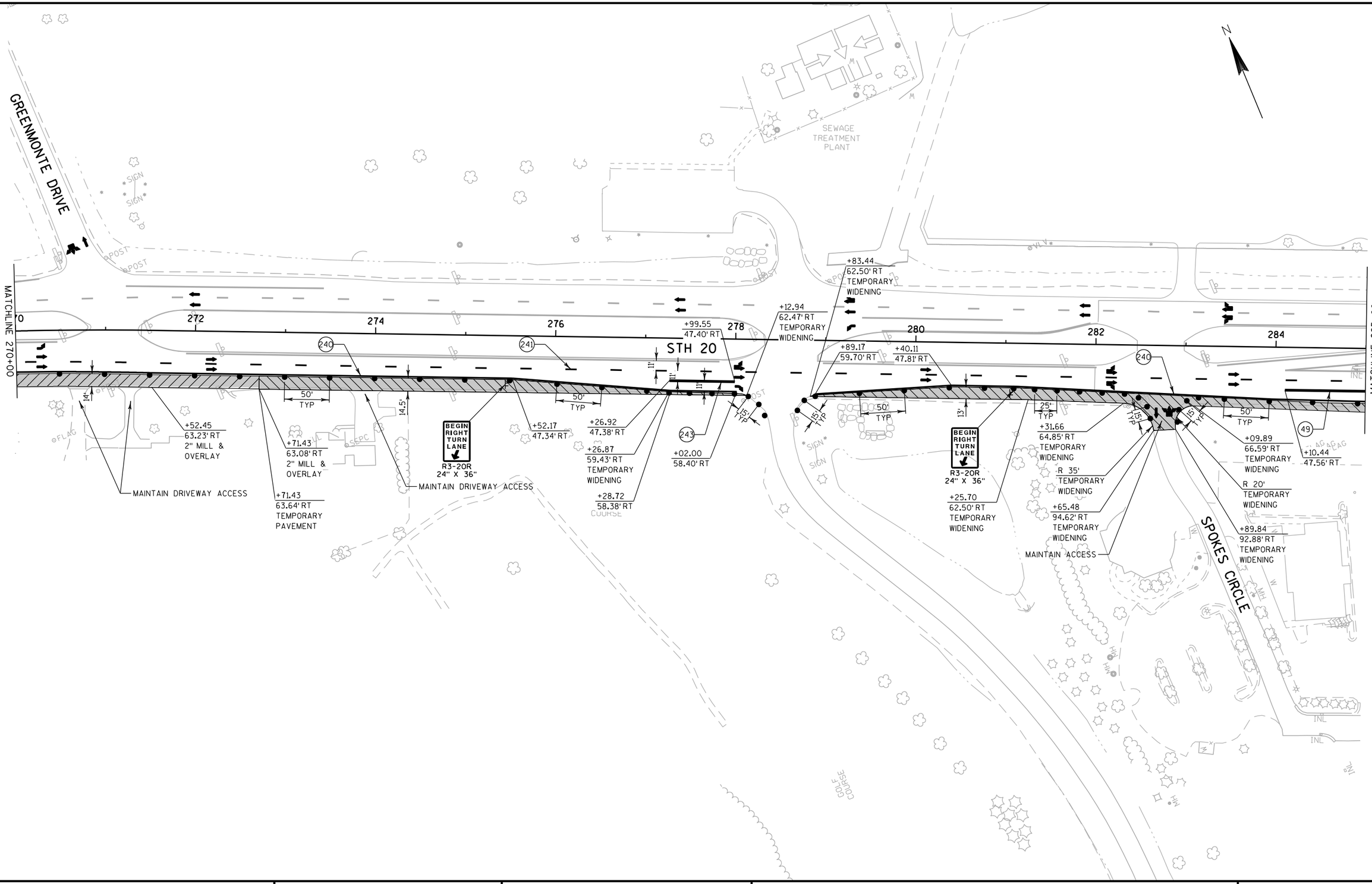
RIGHT
SHOULDER
CLOSED
W21-5A

SEPC
SEPV
WELL
POST
SIGN

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1A CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026011_s1a.dgn PLOT DATE : 13-DEC-2019 12:07 PLOT BY : mscd1s PLOT NAME : 026011_s1a PLOT SCALE : 100:1

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1A CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026012_s1a.dgn PLOT DATE : 13-DEC-2019 12:07 PLOT BY : mscd1s PLOT NAME : 026012_s1a PLOT SCALE : 100:1

2

MATCHLINE 4868+00

MATCHLINE 868NW+00

MATCHLINE 866NE+00

MATCHLINE 285+00

MATCHLINE 300+00

MATCHLINE 2861+00

MATCHLINE 859SW+00

MATCHLINE 857SE+00

+43.61
6.47' LT

+73.76
33.45' LT
TEMPORARY
WIDENING

+41.49
18.32' LT

R 834'
TEMPORARY
WIDENING

+03.08
44.30' LT
TEMPORARY
WIDENING

+39.56
47.71' LT
TEMPORARY
WIDENING

SEE NOTE 1

+10.45
36.67' RT

+09.36
47.67' RT

+61.68
47.66' RT

+70.11
47.68' RT

+78.43
47.74' RT

+80.78
47.79' RT

+58.79
47.79' RT

+22.77
47.72' RT

NW+66.17
5.67' LT

NW+21.54
5.68' RT

NW+83.82
2.44' LT

NW+66.78
9.98' RT

RAMP NW

866NW

+21.26
67.61' RT

+36.43
73.50' RT
TEMPORARY
WIDENING

+54.08
63.01' RT

SW+97.93
4.98' RT

SEE NOTE 1

+55.69
73.50' RT
TEMPORARY
WIDENING

+21.99
73.50' RT
TEMPORARY
WIDENING

BEGIN
RIGHT
TURN
LANE

R3-2OR
24" X 36"

R11-2L
48" X 30"

LANE
CLOSED

TYPE III BARRICADE

+20.68
73.50' RT
TEMPORARY
WIDENING

+50.46
130.75' LT
TEMPORARY
WIDENING

+19.55
71.11' LT
TEMPORARY
WIDENING

+79.84
36.05' LT

+18.82
14.76' LT

+78.88
3.01' LT

+18.51
3.77' LT

+04.37
57.53' LT
TEMPORARY
WIDENING

R 1728'
TEMPORARY
WIDENING

+18.61
24.40' LT

+47.27
55.77' LT
TEMPORARY
WIDENING

+75.91
0.66' RT

R 73'
TEMPORARY
WIDENING

R 97'

SPOKES CIRCLE

WEST FRONTAGE ROAD

2862

RAMP SW

MS098

SW+69.64
13.53' RT

IH 94 SB

IH 94 NB

098

+47.85
25.84' RT

+97.76
36.80' RT

+94.15
73.50' RT
TEMPORARY
WIDENING

+20.95
73.50' RT
TEMPORARY
WIDENING

SE+78.59
23.01' LT

SE+40.97
11.37' LT

SE+89.08
25.73' LT

RAMP NE

864NE

862NE

860SE

858SE

+21.68
47.88' RT

+37.61
47.96' RT

+66.08
47.01' RT

+64.69
36.76' RT

SE+52.61
18.94' RT

SEE NOTE 1

+29.36
58.28' RT

+93.35
75.91' RT
TEMPORARY
WIDENING

+15.48
73.50' RT
TEMPORARY
WIDENING

STH 20

R 65'

CANOPY

FILLER CAPS

SIGN

FLAG

NOTE

1) REMOVE ISLAND TO FLANGE AND REPLACE WITH TEMPORARY PAVEMENT. COVER PLATE EXISTING INLETS.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1A CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026013_s1a.dgn PLOT DATE : 13-DEC-2019 12:07 PLOT BY : mscd1s PLOT NAME : 026013_s1a PLOT SCALE : 100:1

2

MATCHLINE 5863+00

+30.90
1.25' LT
TEMPORARY
WIDENING

+83.94
3.46' LT
TEMPORARY
WIDENING

+29.70
4.81' LT
TEMPORARY
WIDENING

+45.14
14.28' LT

EAST FRONTAGE ROAD

5862

5863

3858

3856

3854

MATCHLINE 300+00

MATCHLINE 315+00

STH 20

300 302 304 306 308 310 312 314

+84.49
46.66' RT

+68.02
58.41' RT

+69.71
22.21' RT

+81.43
73.50' RT
TEMPORARY
WIDENING

SEE NOTE 1

+96.22
57.68' RT
TEMPORARY
WIDENING

+52.83
52.00' LT
TEMPORARY
WIDENING

+38.53
79.08' RT
TEMPORARY
WIDENING

+82.86
1.75' LT

+57.76
9.56' LT
TEMPORARY
WIDENING

+00.67
73.50' RT
TEMPORARY
WIDENING

W01-6
48" X 24"
TYPE III BARRICADE

+95.67
62.50' RT
TEMPORARY
WIDENING

+99.98
62.50' RT
TEMPORARY
WIDENING

+65.35
68.49' RT
TEMPORARY
WIDENING

+16.50
67.39' RT
TEMPORARY
WIDENING

+81.61
46.80' RT

+27.27
76.42' RT

+58.19
73.62' RT

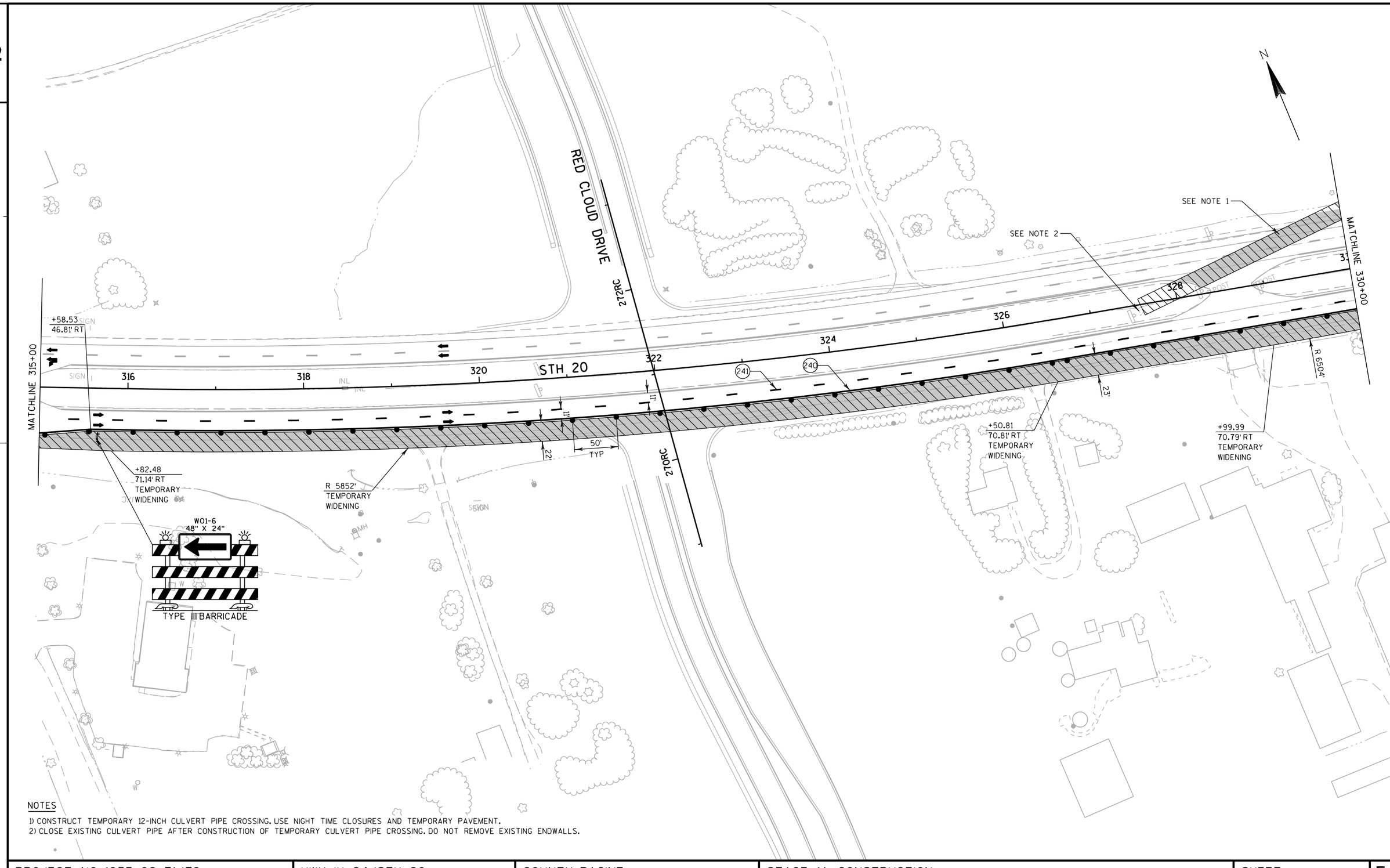
GALAXY DRIVE

MATCHLINE 3854+00

NOTE
1) REMOVE ISLAND TO FLANGE AND REPLACE WITH TEMPORARY PAVEMENT. COVER PLATE EXISTING INLETS.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1A CONSTRUCTION	SHEET	E

2

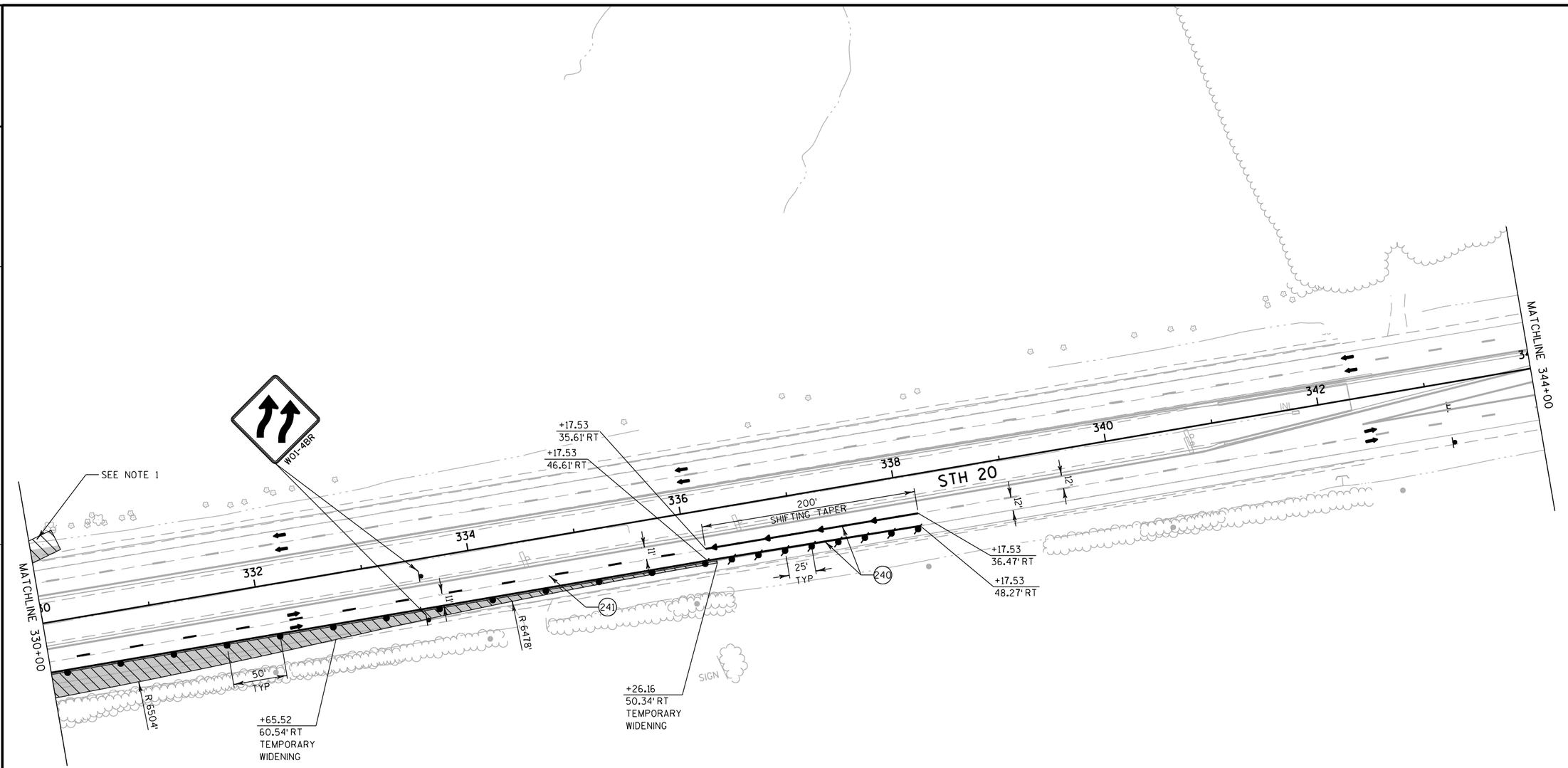


NOTES

1) CONSTRUCT TEMPORARY 12-INCH CULVERT PIPE CROSSING. USE NIGHT TIME CLOSURES AND TEMPORARY PAVEMENT.
2) CLOSE EXISTING CULVERT PIPE AFTER CONSTRUCTION OF TEMPORARY CULVERT PIPE CROSSING. DO NOT REMOVE EXISTING ENDWALLS.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1A CONSTRUCTION	SHEET	E

2

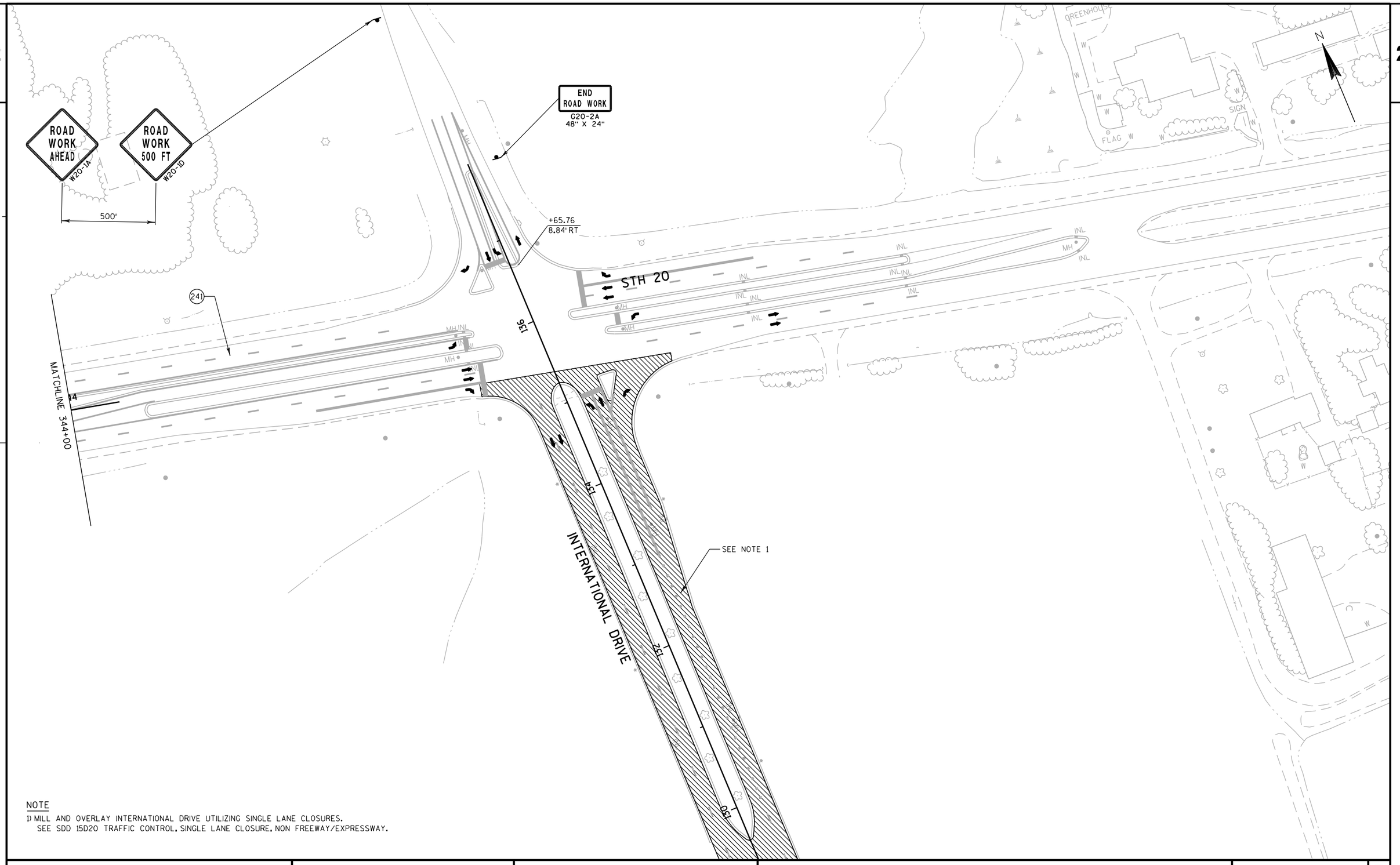


NOTE

1) CONSTRUCT TEMPORARY CULVERT PIPE CROSSING. USE NIGHT TIME CLOSURES AND TEMPORARY PAVEMENT.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1A CONSTRUCTION	SHEET	E

2



NOTE

1) MILL AND OVERLAY INTERNATIONAL DRIVE UTILIZING SINGLE LANE CLOSURES.
SEE SDD 15D20 TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1A CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026017_s1a.dgn PLOT DATE : 13-DEC-2019 12:08 PLOT BY : mscd1s PLOT NAME : 026017_s1a PLOT SCALE : 100:1

MATCHLINE 2861+00

+93.80
54.76' LT
TEMPORARY
WIDENING

R 1728'
TEMPORARY
WIDENING

+02.01
41.32' LT
TEMPORARY
WIDENING

2860
2858
2856
2854
2852

WEST FRONTAGE ROAD

MATCHLINE 859SW+00

858SW
RAMP SW
856SW
854SW
852SW
850SW
848SW

IH 94 SB
IH 94 NB

MATCHLINE 857SE+00

856SE
RAMP SE
854SE
852SE
850SE
848SE

1900
458
852
850

PCMS MESSAGE
RIGHT LANE
WATCH FOR BACKUPS
PCMS

1) PLACE ALONG IH 94 NB OUTSIDE SHOULDER
2) LEAVE IN PLACE FOR DURATION OF STAGE 1A AND 1B

2

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1A CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026018_s1a.dgn PLOT DATE : 13-DEC-2019 12:08 PLOT BY : mscd1s PLOT NAME : 026018_s1a PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

PCMS

PCMS MESSAGE

RIGHT LANE

WATCH FOR BACKUPS

1700'

1) PLACE ALONG IH 94 SB OUTSIDE SHOULDER
2) LEAVE IN PLACE FOR DURATION OF STAGE 1A AND 1B

4876

4874

4872

4870

WEST FRONTAGE ROAD

876NW

876

874NW

874

872NW

872

IH 94 SB

IH 94 NB

870

RAMP NW

870NW

868

MNW

MATCHLINE 868NW+00

5876

5874

EAST FRONTAGE ROAD

874NE

872NE

870NE

RAMP NE

868NE

NE

MATCHLINE 866NE+00

1,093.6
752.67

+32.32
14.48' LT

239

BEGIN LEFT TURN LANE

R3-20L
24" X 36"

MATCHLINE 4868+00

SIGN

INL

MH

RIPRAP

CANOPY

FILLER CAP

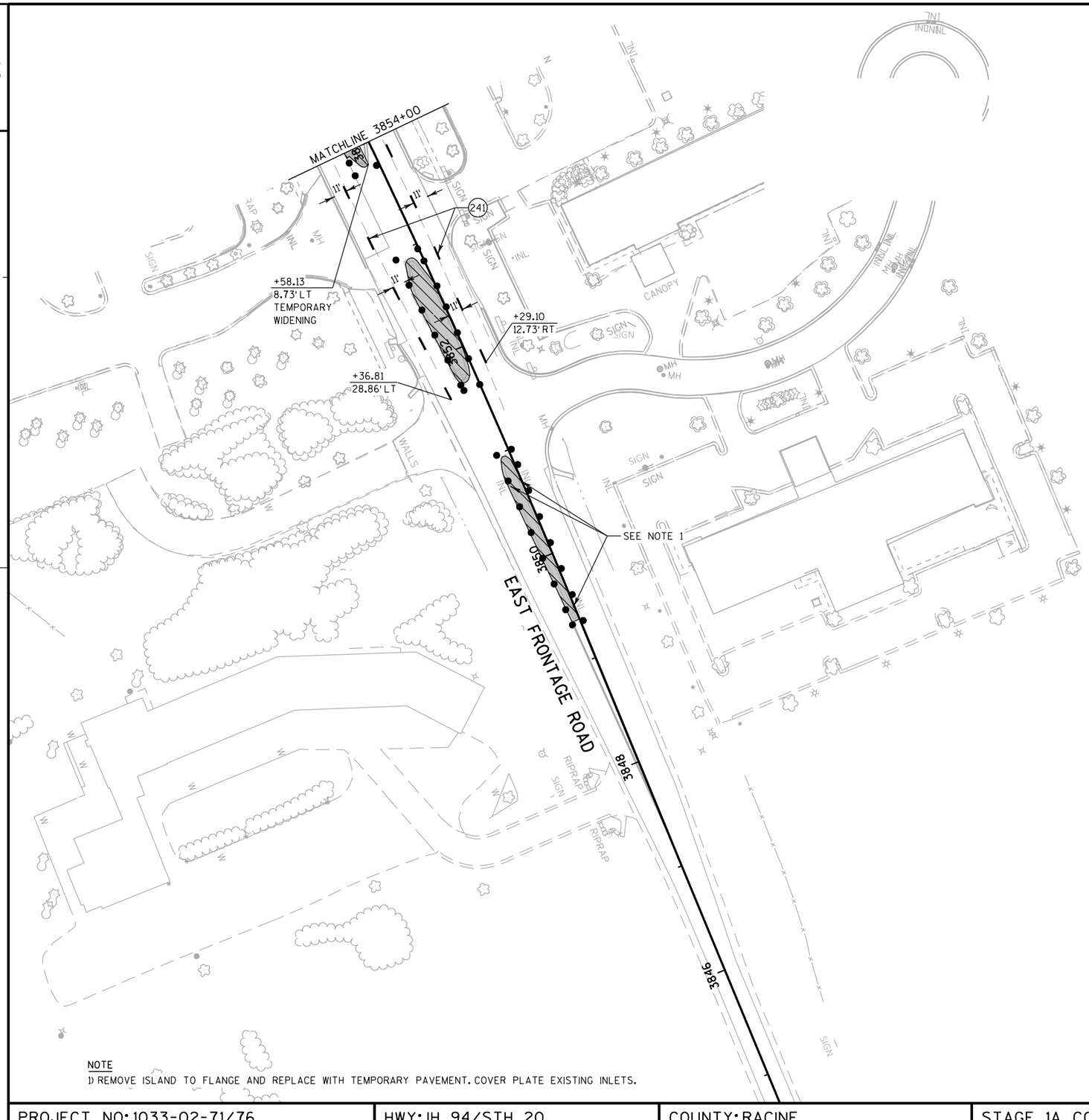
G.P.

TANK

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1A CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026019_s1a.dgn PLOT DATE : 13-DEC-2019 12:08 PLOT BY : mscd1s PLOT NAME : 026019_s1a PLOT SCALE : 100:1

2



NOTE

1) REMOVE ISLAND TO FLANGE AND REPLACE WITH TEMPORARY PAVEMENT. COVER PLATE EXISTING INLETS.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1A CONSTRUCTION	SHEET	E

2

N

5870

5868

5866

EAST FRONTAGE ROAD

5864

+21.65
25.17' LT

KILBOURN DRIVE

241

+11.51
6.87' RT
TEMPORARY
WIDENING

R 58'
TEMPORARY
WIDENING

MH MH

SIGN

MATCHLINE 5863+00

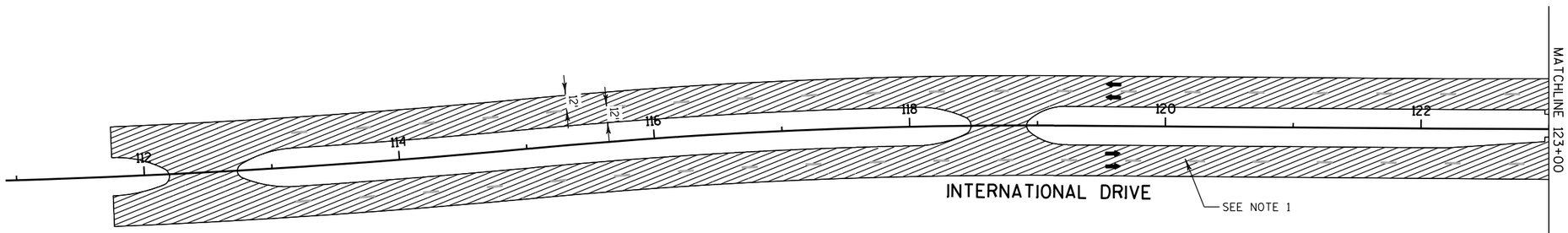
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1A CONSTRUCTION	SHEET	E

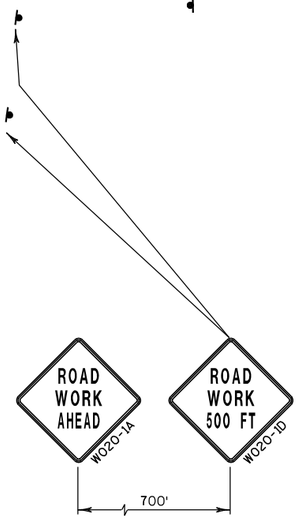
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2

N

END
ROAD WORK
G20-2A
48" X 24"

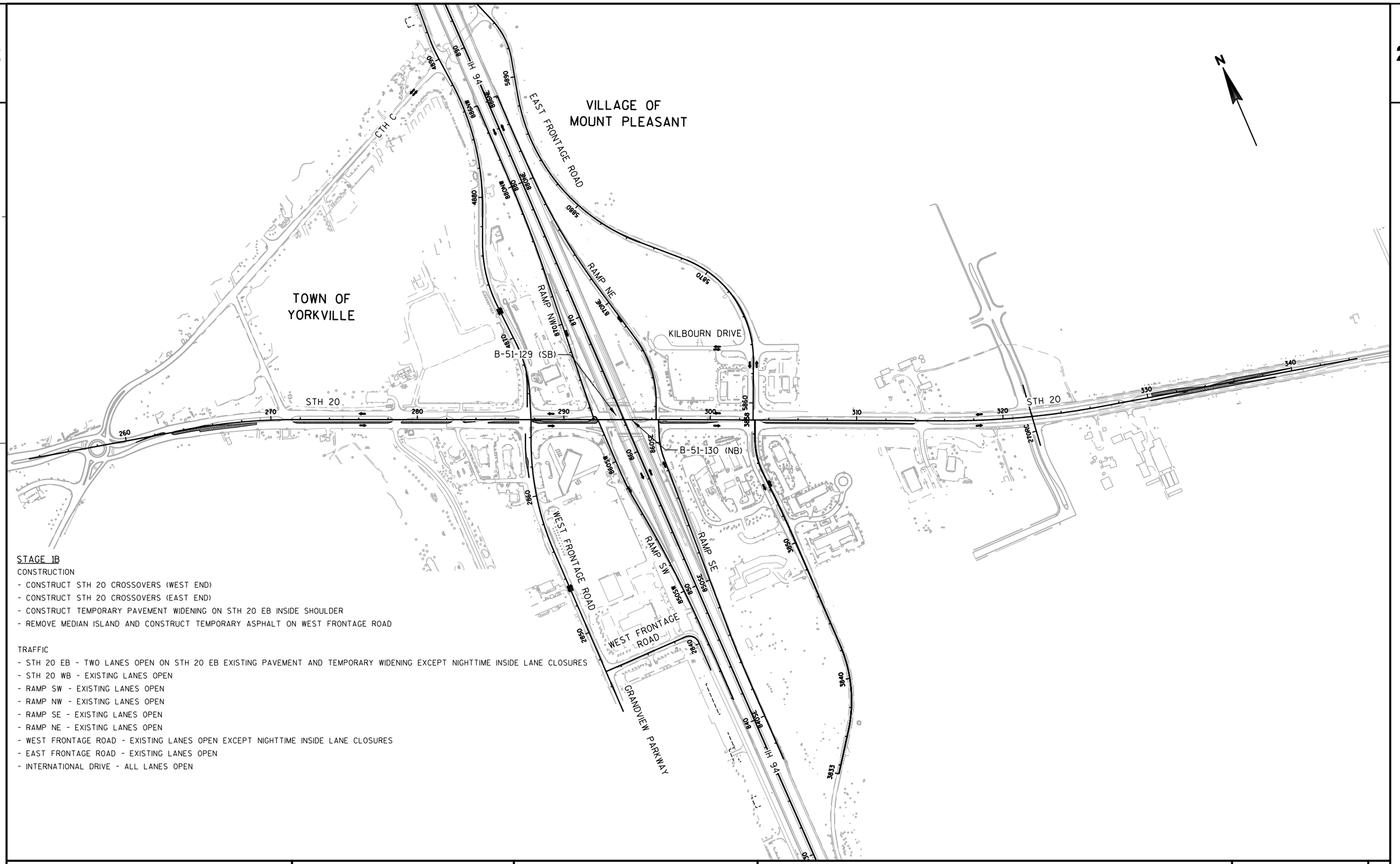




NOTE
1) MILL AND OVERLAY INTERNATIONAL DRIVE UTILIZING SINGLE LANE CLOSURES.
SEE SDD 15D20 TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1A CONSTRUCTION	SHEET	E

2



STAGE 1B

CONSTRUCTION

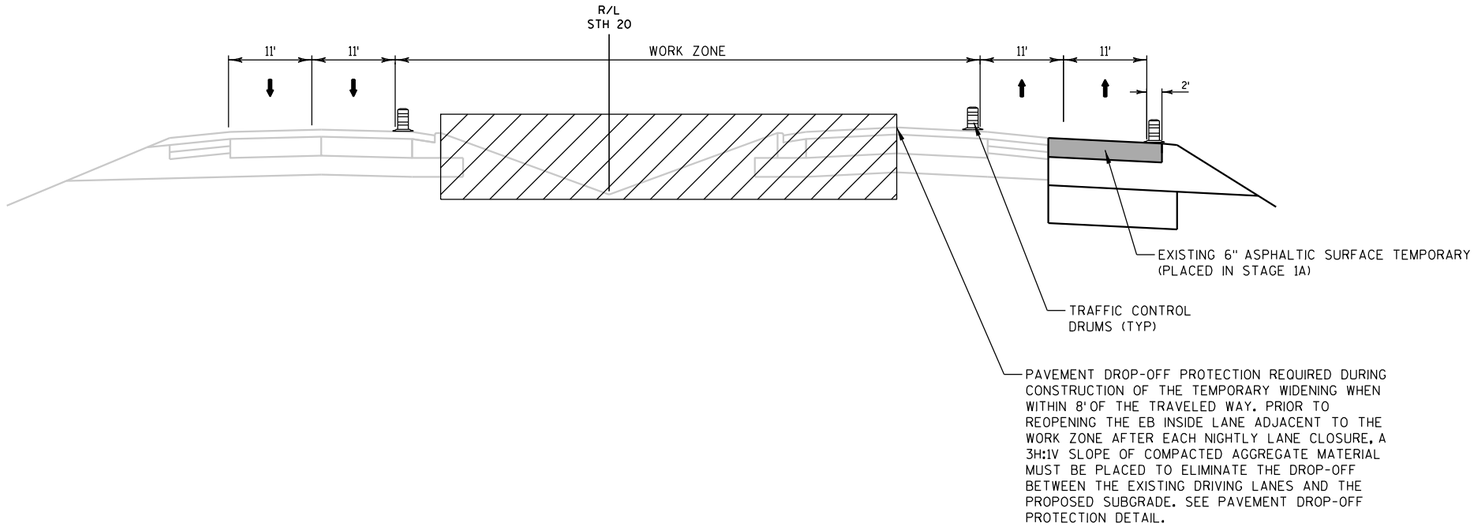
- CONSTRUCT STH 20 CROSSOVERS (WEST END)
- CONSTRUCT STH 20 CROSSOVERS (EAST END)
- CONSTRUCT TEMPORARY PAVEMENT WIDENING ON STH 20 EB INSIDE SHOULDER
- REMOVE MEDIAN ISLAND AND CONSTRUCT TEMPORARY ASPHALT ON WEST FRONTAGE ROAD

TRAFFIC

- STH 20 EB - TWO LANES OPEN ON STH 20 EB EXISTING PAVEMENT AND TEMPORARY WIDENING EXCEPT NIGHTTIME INSIDE LANE CLOSURES
- STH 20 WB - EXISTING LANES OPEN
- RAMP SW - EXISTING LANES OPEN
- RAMP NW - EXISTING LANES OPEN
- RAMP SE - EXISTING LANES OPEN
- RAMP NE - EXISTING LANES OPEN
- WEST FRONTAGE ROAD - EXISTING LANES OPEN EXCEPT NIGHTTIME INSIDE LANE CLOSURES
- EAST FRONTAGE ROAD - EXISTING LANES OPEN
- INTERNATIONAL DRIVE - ALL LANES OPEN

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE CONSTRUCTION: OVERVIEW - STAGE 1B	SHEET	E

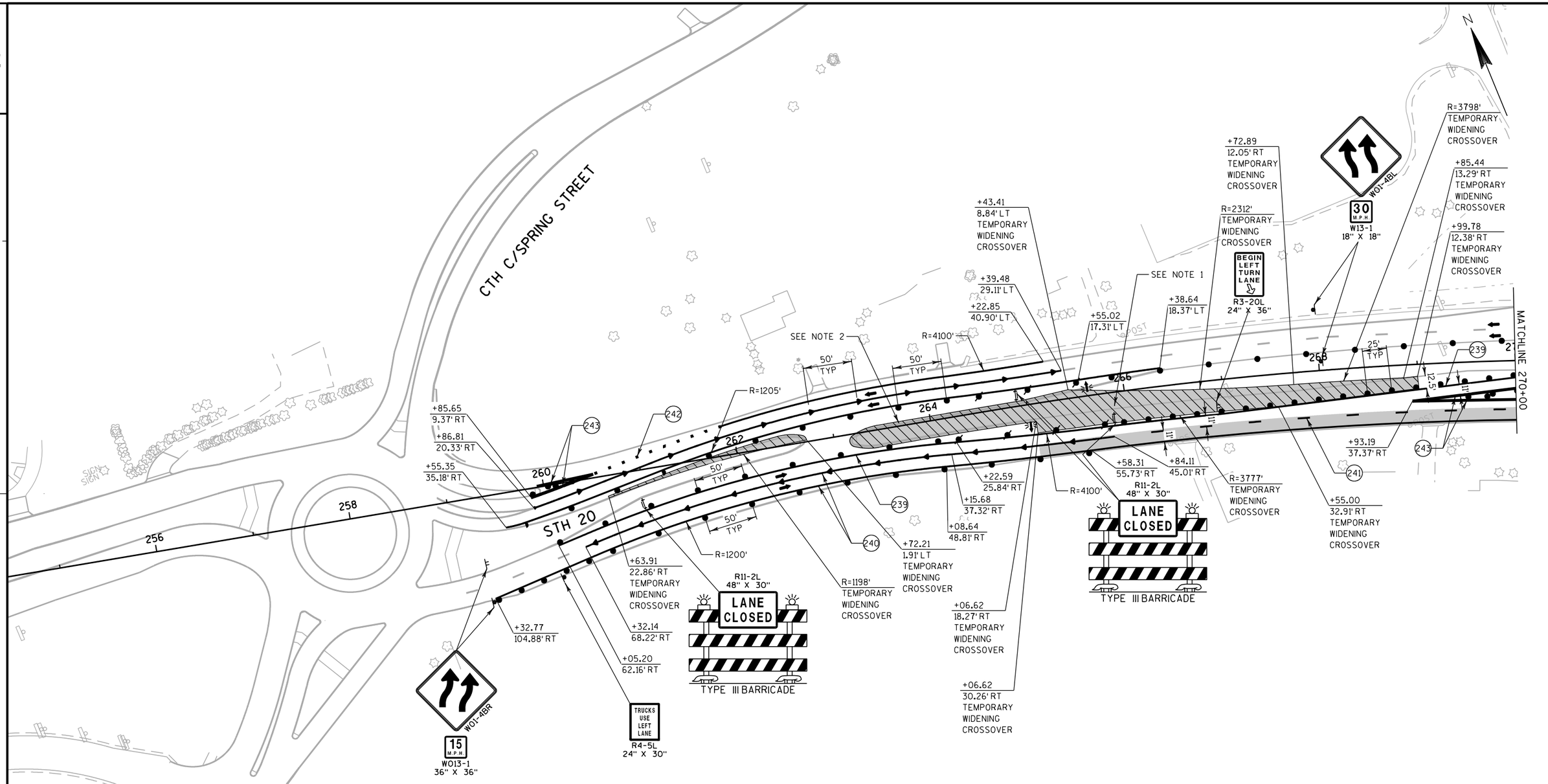
2



STAGE 1B TYPICAL SECTION

STH 20
LOOKING EAST

2



NOTE
1) COVER PLATE EXISTING INLET.
2) CONSTRUCT DRAIN SLOTTED VANE LONGITUDINAL TEMPORARY FOR CROSSOVER DRAINAGE.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1B CONSTRUCTION	SHEET	E

2

GREENMONTE DRIVE

SEWAGE TREATMENT PLANT

GOLF COURSE

SPOKES CIRCLE

MATCHLINE 270+00

MATCHLINE 285+00

STH 20

+36.54
21.06' LT

+40.24
13.12' RT

+50.41
15.90' RT
TEMPORARY WIDENING

+85.35
19.00' RT

+85.12
39.49' RT

+84.36
39.82' RT

+00.00
14.50' RT
TEMPORARY WIDENING

+26.64
14.50' RT
TEMPORARY WIDENING

+61.59
38.58' RT

+90.69
14.50' RT
TEMPORARY WIDENING

+65.62
38.50' RT

+28.01
38.50' RT

+69.15
39.46' RT

+10.19
14.50' RT
TEMPORARY WIDENING

+36.74
14.50' RT
TEMPORARY WIDENING

+97.53
14.50' RT
TEMPORARY WIDENING

+80.72
46.39' RT

+47.75
43.43' RT

+25.93
49.50' RT

+25.72
60.50' RT

SEE NOTE 1

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

R11-2
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

W01-4BR

495'
SHIFTING TAPER

DOUBLE

25' TYP

50' TYP

15' TYP

11'

9.5'

272 274 276 278 280 282 284

239 240 241

NOTE
1) REMOVE ISLAND TO FLANGE AND REPLACE WITH TEMPORARY PAVEMENT. COVER PLATE EXISTING INLETS.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1B CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026112_s1b.dgn PLOT DATE : 13-DEC-2019 12:09 PLOT BY : mscd1s PLOT NAME : 026112_s1b PLOT SCALE : 100:1

2

MATCHLINE 285+00

MATCHLINE 4868+00

MATCHLINE 868NW+00

MATCHLINE 866NE+00

MATCHLINE 300+00

MATCHLINE 2861+00

MATCHLINE 859SW+00

MATCHLINE 857SE+00

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

W01-6
48" X 24"
TYPE III BARRICADE

+96.59
38.50' RT

+96.59
49.50' RT

286

25' TYP

R 25'

11'

15' TYP

SEE NOTE 1

247

239

25' TYP

240

495'
SHIFTING TAPER

249

243

+45.65
71.50' RT

R 35'

+13.10
68.54' LT

+38.47
34.26' LT

WEST FRONTAGE ROAD

SPOKES CIRCLE

+38.25
5.91' RT
TEMPORARY
WIDENING

R=73'
TEMPORARY
WIDENING

+72.60
14.50' RT
TEMPORARY
WIDENING

R=58'
TEMPORARY
WIDENING

+34.06
14.50' RT
TEMPORARY
WIDENING

288

290

25' TYP

10.5'

50' TYP

R 98'

R 75'

+30.22
26.28' RT

+47.61
49.50' RT

+55.69
71.50' RT

DOUBLE
SEE NOTE 1

TRUCKS USE LEFT LANE
R4-5L
24" X 30"

BEGIN RIGHT TURN LANE
R3-20R
24" X 36"

+03.23
71.50' RT

+85.93
87.51' RT

SEE NOTE 1

W01-6
48" X 24"
TYPE III BARRICADE

+76.67
4.60' RT

+80.09
23.02' LT

SEE NOTE 1

239

2982

RAMP NW

RAMP SW

MS098

+04.26
21.28' LT
TEMPORARY
WIDENING

+55.50
49.50' RT

292

294

+98.97
49.50' RT

+97.77
60.50' RT

+93.49
71.50' RT

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

TRUCKS USE LEFT LANE
R4-5L
24" X 30"

+71.05
49.50' RT

+38.55
49.50' RT

IH 94 SB

IH 94 NB

RAMP NE

RAMP SE

MS098SE

+71.52
17.61' RT

+10.88
38.50' RT

296

298 STH 20

+09.87
49.50' RT

+20.79
71.50' RT

+15.72
60.50' RT

+49.63
38.50' RT

SE+59.52
25.32' RT

+18.51
71.50' RT

TRUCKS USE LEFT LANE
R4-5L
24" X 30"

SEE NOTE 1

NOTE
1) REMOVE ISLAND TO FLANGE AND REPLACE WITH TEMPORARY PAVEMENT. COVER PLATE EXISTING INLETS.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1B CONSTRUCTION	SHEET E

2

EAST FRONTAGE ROAD

STH 20

GALAXY DRIVE

MATCHLINE 300+00

MATCHLINE 315+00

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

TRUCKS USE LEFT LANE
R4-5L
24" X 30"

W01-6
48" X 24"
TYPE III BARRICADE

W024-1AL

+52.34
14.50' RT
TEMPORARY WIDENING

+56.28
14.50' RT
TEMPORARY WIDENING

+50.43
201.96' RT
TEMPORARY WIDENING

+15.41
14.50' RT
TEMPORARY WIDENING

+11.19
18.92' RT
TEMPORARY WIDENING

+31.12
22.07' RT

+08.60
49.50' RT

+78.31
42.18' RT

+83.41
71.53' RT

+08.72
78.45' LT

+52.78
50.00' LT

+73.66
71.50' RT

+56.14
22.08' RT

+16.16
60.50' RT

+16.04
49.50' RT

+16.28
71.50' RT

+16.04
49.50' RT

+16.28
71.50' RT

+11.04
38.50' RT

+15.39
38.50' RT

+10.91
49.50' RT

+15.39
49.50' RT

+11.04
60.50' RT

+15.39
60.50' RT

+82.68
66.31' RT

+28.21
65.30' RT

495'
SHIFTING TAPER

383'
SHIFTING TAPER

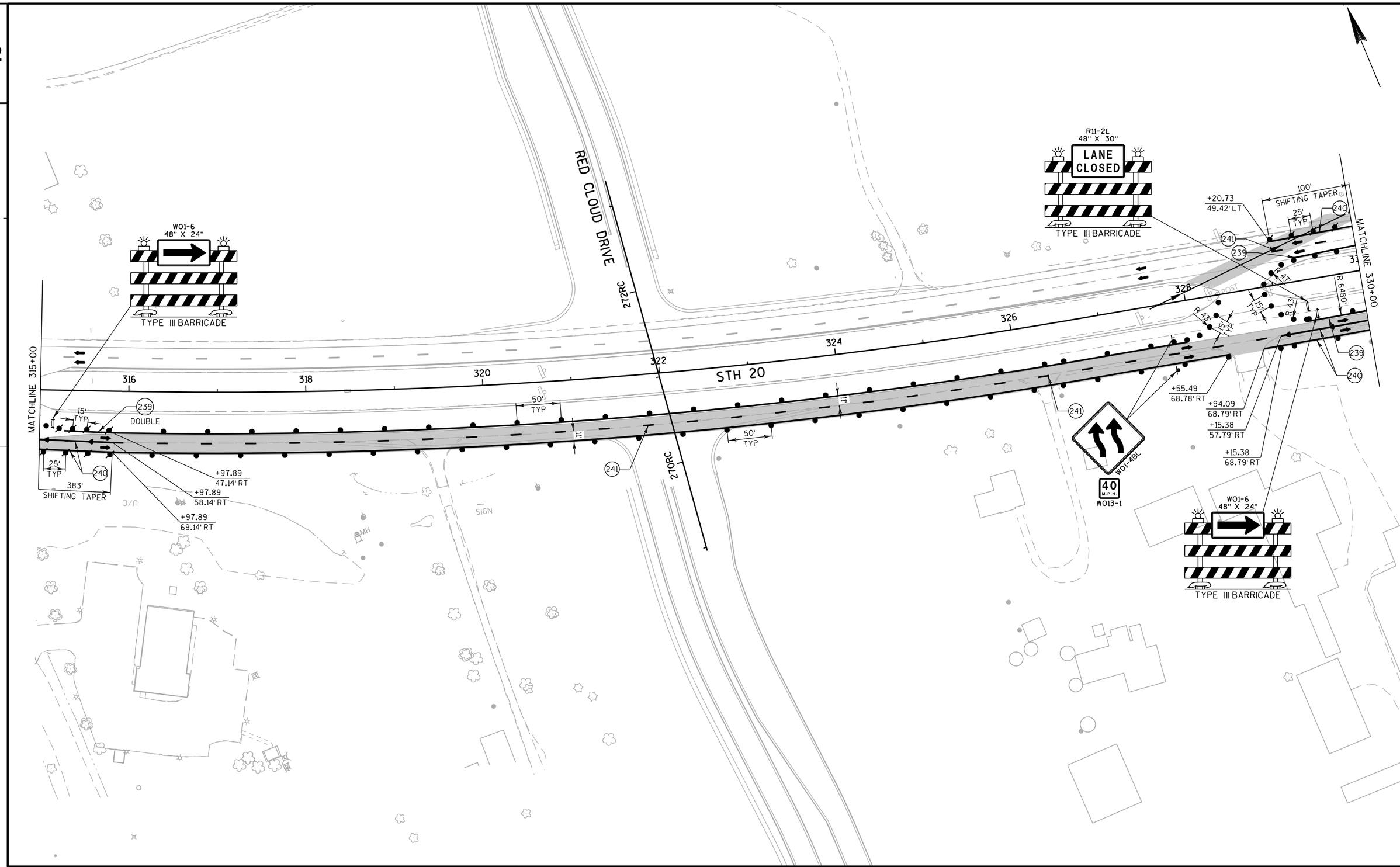
DOUBLE

DOUBLE

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1B CONSTRUCTION	SHEET	E

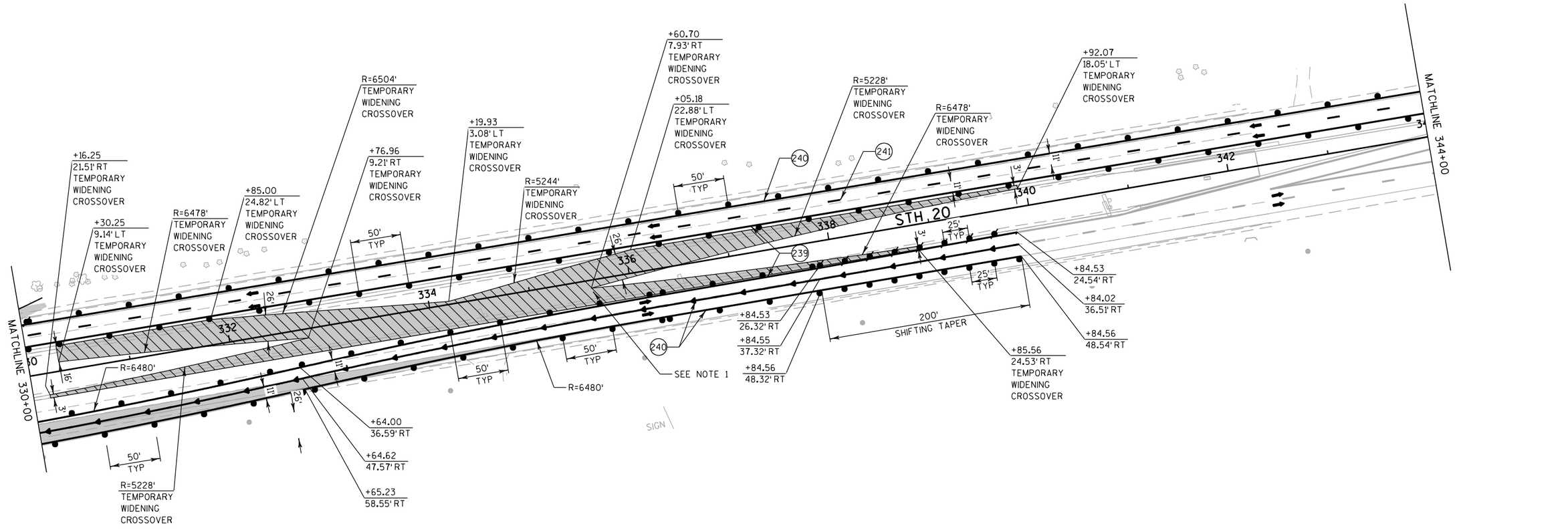
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1B CONSTRUCTION	SHEET	E

2

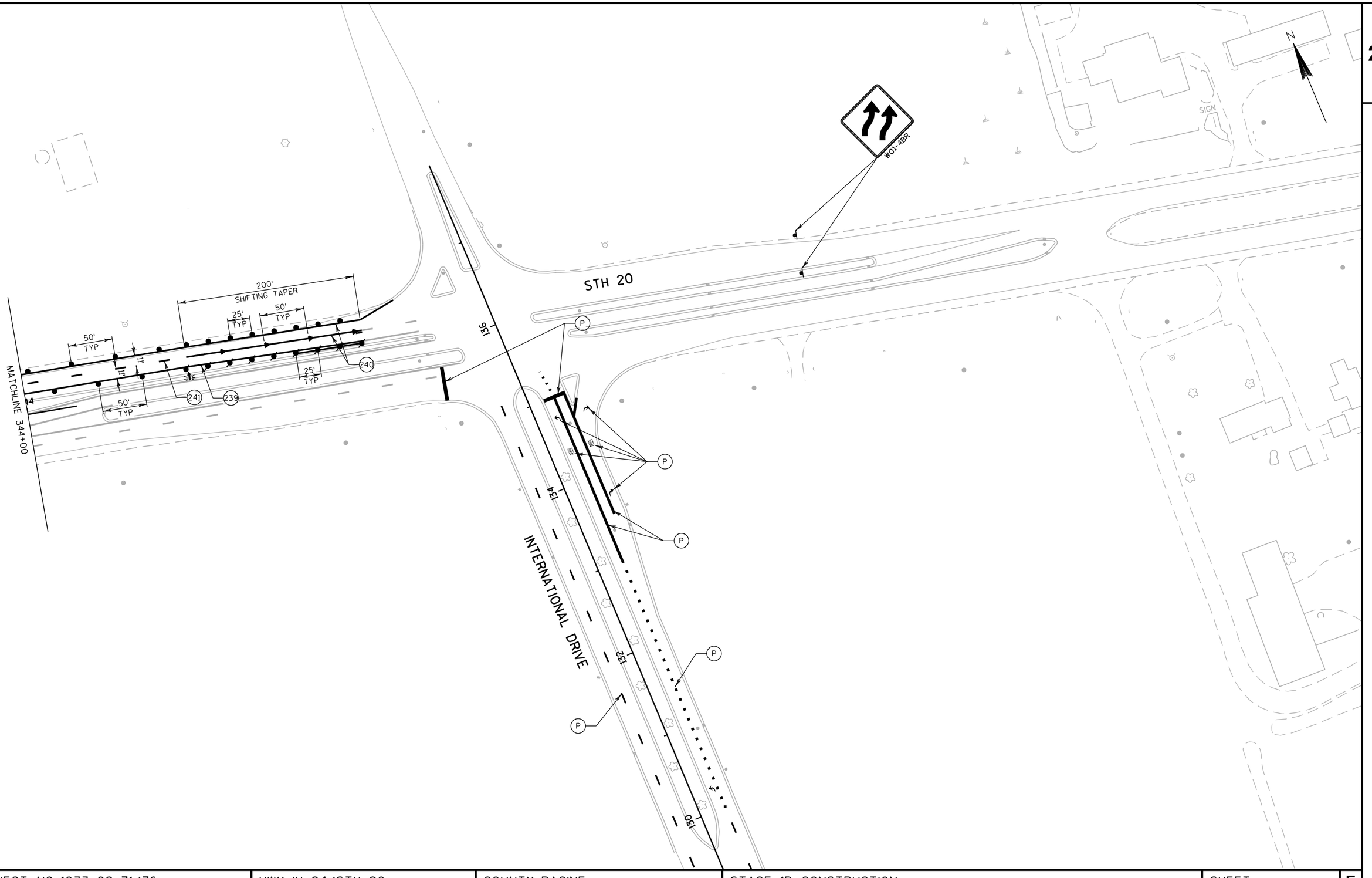


NOTE

1) CONSTRUCT DRAIN SLOTTED VANE LONGITUDINAL TEMPORARY FOR CROSSOVER DRAINAGE.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1B CONSTRUCTION	SHEET	E

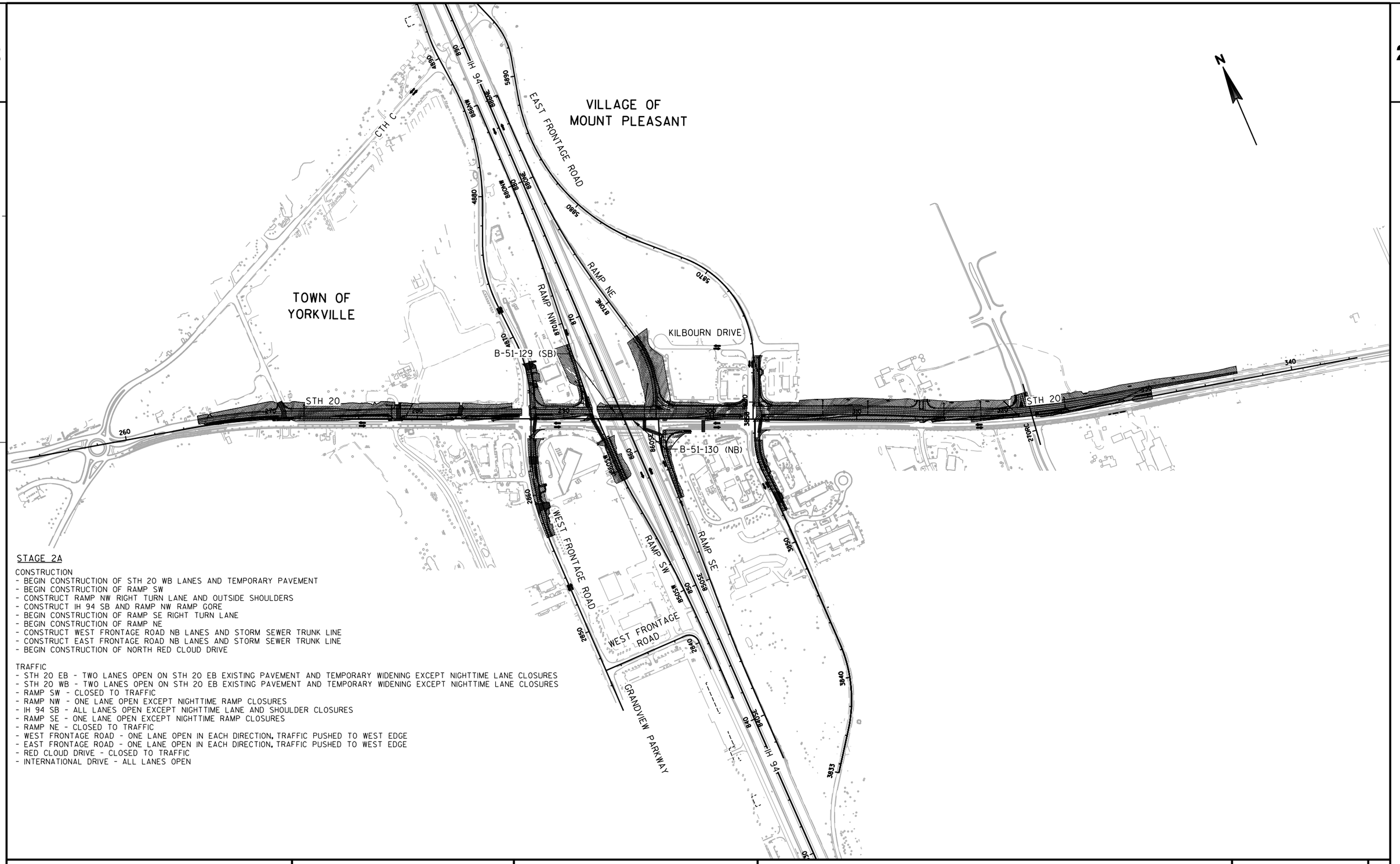
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1B CONSTRUCTION	SHEET	E

2

2



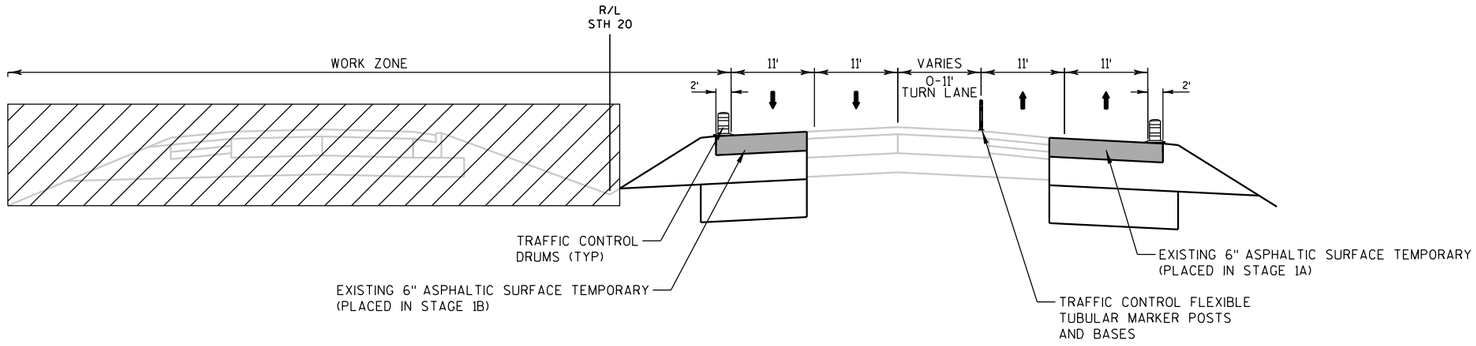
STAGE 2A

CONSTRUCTION
- BEGIN CONSTRUCTION OF STH 20 WB LANES AND TEMPORARY PAVEMENT
- BEGIN CONSTRUCTION OF RAMP SW
- CONSTRUCT RAMP NW RIGHT TURN LANE AND OUTSIDE SHOULDERS
- CONSTRUCT IH 94 SB AND RAMP NW RAMP GORE
- BEGIN CONSTRUCTION OF RAMP SE RIGHT TURN LANE
- BEGIN CONSTRUCTION OF RAMP NE
- CONSTRUCT WEST FRONTAGE ROAD NB LANES AND STORM SEWER TRUNK LINE
- CONSTRUCT EAST FRONTAGE ROAD NB LANES AND STORM SEWER TRUNK LINE
- BEGIN CONSTRUCTION OF NORTH RED CLOUD DRIVE

TRAFFIC
- STH 20 EB - TWO LANES OPEN ON STH 20 EB EXISTING PAVEMENT AND TEMPORARY WIDENING EXCEPT NIGHTTIME LANE CLOSURES
- STH 20 WB - TWO LANES OPEN ON STH 20 EB EXISTING PAVEMENT AND TEMPORARY WIDENING EXCEPT NIGHTTIME LANE CLOSURES
- RAMP SW - CLOSED TO TRAFFIC
- RAMP NW - ONE LANE OPEN EXCEPT NIGHTTIME RAMP CLOSURES
- IH 94 SB - ALL LANES OPEN EXCEPT NIGHTTIME LANE AND SHOULDER CLOSURES
- RAMP SE - ONE LANE OPEN EXCEPT NIGHTTIME RAMP CLOSURES
- RAMP NE - CLOSED TO TRAFFIC
- WEST FRONTAGE ROAD - ONE LANE OPEN IN EACH DIRECTION, TRAFFIC PUSHED TO WEST EDGE
- EAST FRONTAGE ROAD - ONE LANE OPEN IN EACH DIRECTION, TRAFFIC PUSHED TO WEST EDGE
- RED CLOUD DRIVE - CLOSED TO TRAFFIC
- INTERNATIONAL DRIVE - ALL LANES OPEN

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE CONSTRUCTION: OVERVIEW - STAGE 2A	SHEET	E

2

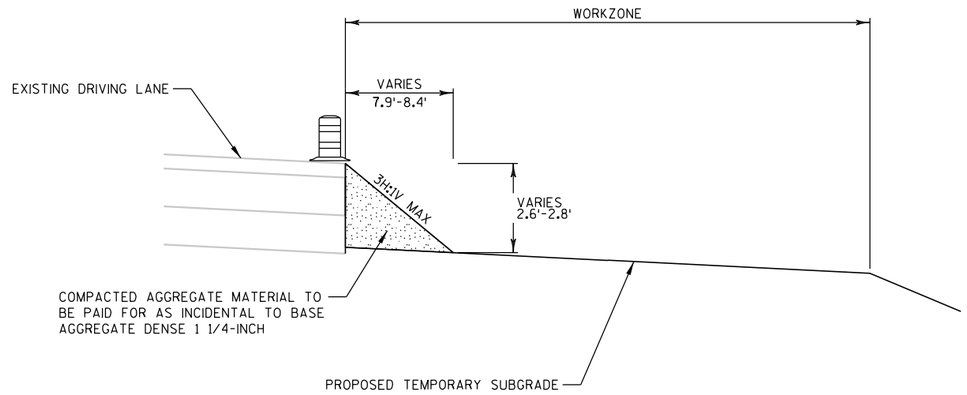


STAGE 2 TYPICAL SECTION

STH 20
LOOKING EAST

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE CONSTRUCTION: TYPICAL SECTIONS - STAGE 2	SHEET	E

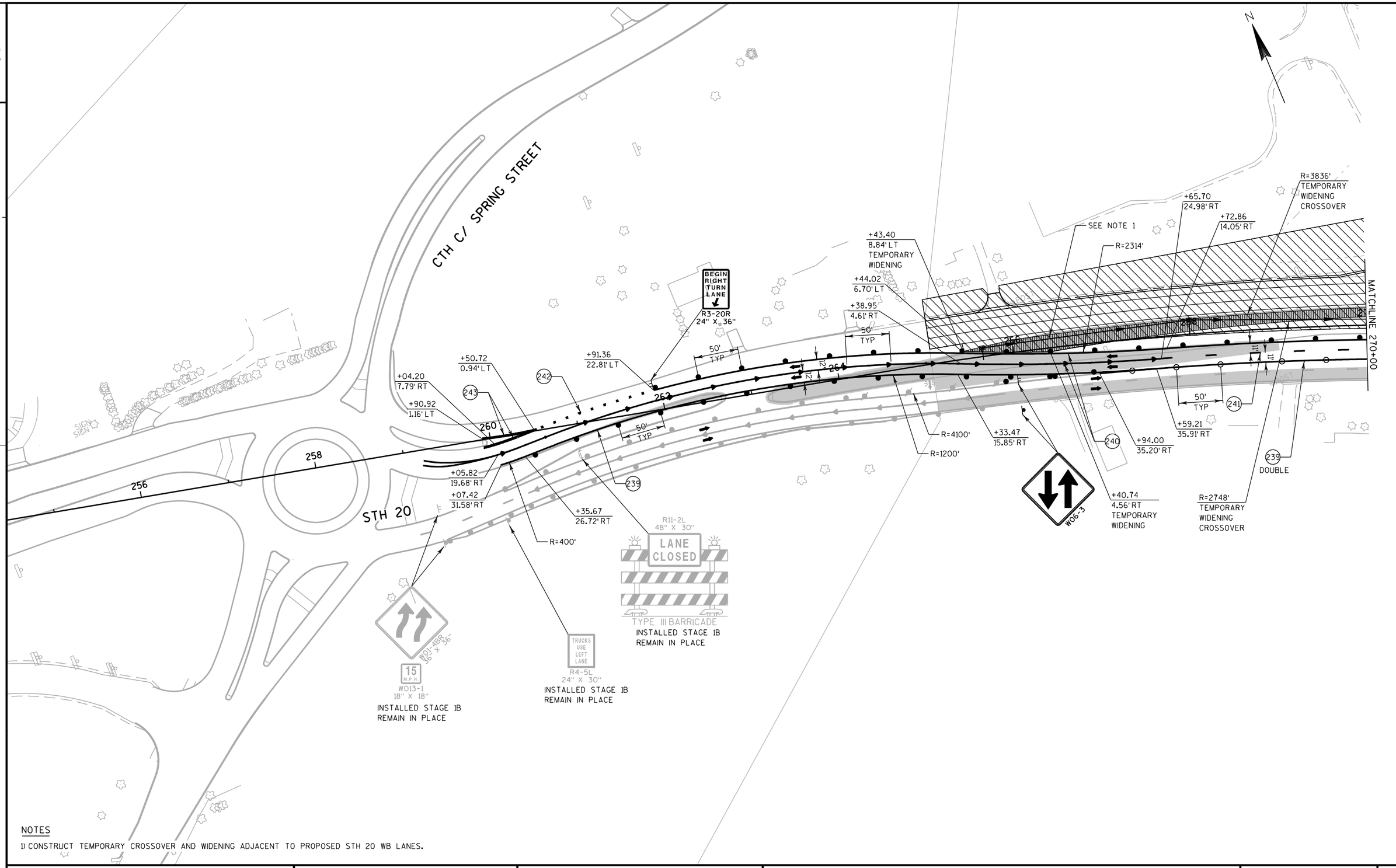
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PAVEMENT DROP-OFF PROTECTION DETAIL

STH 20
RAMP NW
WEST FRONTAGE ROAD
EAST FRONTAGE ROAD

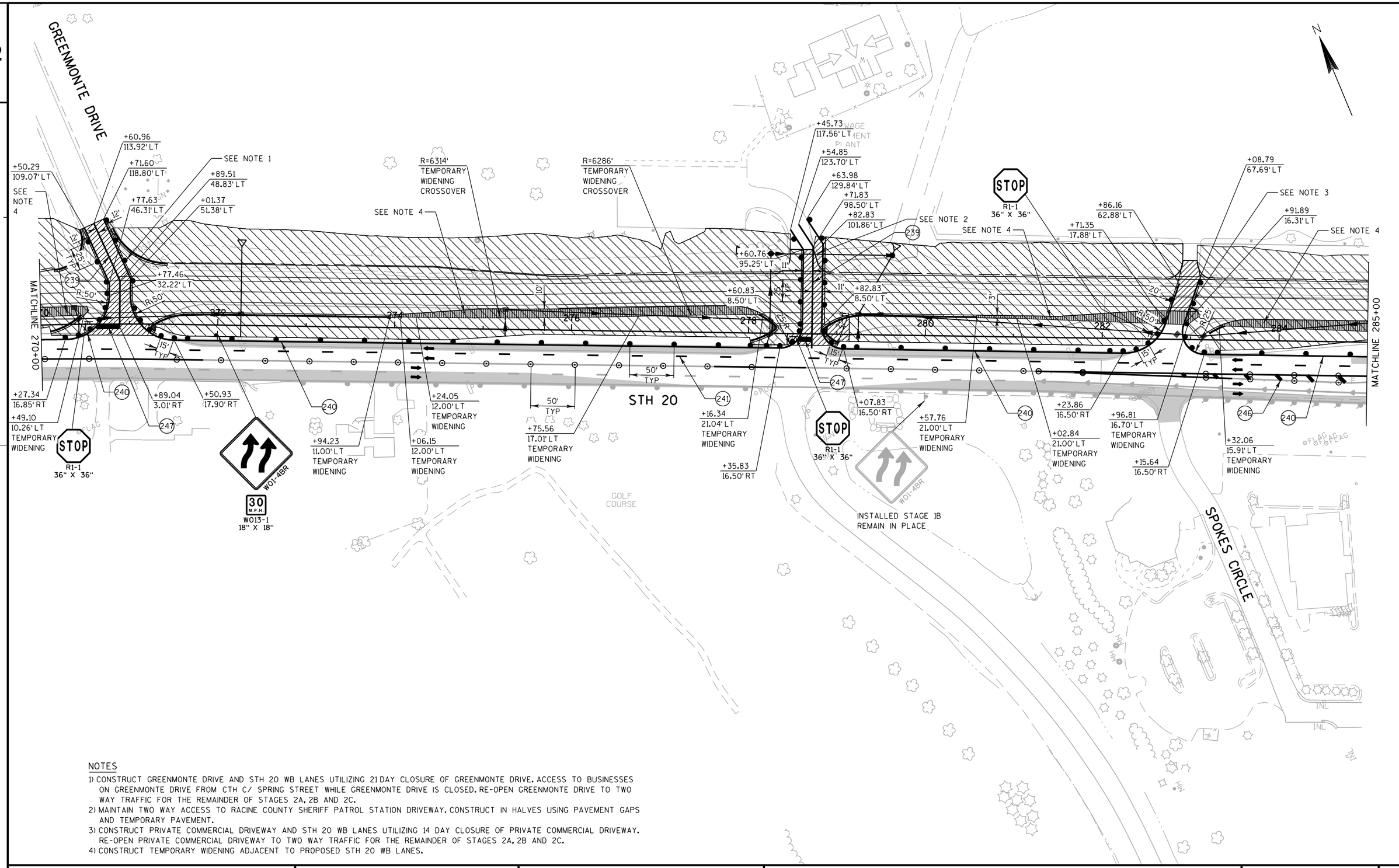
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NOTES

1) CONSTRUCT TEMPORARY CROSSOVER AND WIDENING ADJACENT TO PROPOSED STH 20 WB LANES.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2A CONSTRUCTION	SHEET	E



NOTES

1) CONSTRUCT GREENMONTE DRIVE AND STH 20 WB LANES UTILIZING 21 DAY CLOSURE OF GREENMONTE DRIVE. ACCESS TO BUSINESSES ON GREENMONTE DRIVE FROM CTH C/ SPRING STREET WHILE GREENMONTE DRIVE IS CLOSED. RE-OPEN GREENMONTE DRIVE TO TWO WAY TRAFFIC FOR THE REMAINDER OF STAGES 2A, 2B AND 2C.
2) MAINTAIN TWO WAY ACCESS TO RACINE COUNTY SHERIFF PATROL STATION DRIVEWAY. CONSTRUCT IN HALVES USING PAVEMENT GAPS AND TEMPORARY PAVEMENT.
3) CONSTRUCT PRIVATE COMMERCIAL DRIVEWAY AND STH 20 WB LANES UTILIZING 14 DAY CLOSURE OF PRIVATE COMMERCIAL DRIVEWAY. RE-OPEN PRIVATE COMMERCIAL DRIVEWAY TO TWO WAY TRAFFIC FOR THE REMAINDER OF STAGES 2A, 2B AND 2C.
4) CONSTRUCT TEMPORARY WIDENING ADJACENT TO PROPOSED STH 20 WB LANES.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2A CONSTRUCTION	SHEET	E

2

MATCHLINE 4868+00

MATCHLINE 868NW+00

MATCHLINE 866NE+00

MATCHLINE 285+00

MATCHLINE 300+00

WEST FRONTAGE ROAD

RAMP NW

RAMP NE

RAMP SW

RAMP SE

IH 94 SB

IH 94 NB

STH 20

SPOKES CIRCLE

MATCHLINE 2861+00

MATCHLINE 859SW+00

MATCHLINE 857SE+00

+84.83 15.53' RT

+80.84 42.08' RT

+57.63 15.17' RT

SEE NOTE 1

+56.90 69.64' RT

+22.21 74.48' RT

+70.69 98.31' RT

+44.21 63.53' RT

+33.38 60.12' RT

+61.41 89.59' LT PROPOSED PAVEMENT

+45.10 12.40' LT PROPOSED PAVEMENT

+53.01 10.00' LT TEMPORARY PAVEMENT

+32.64 12.77' LT TEMPORARY WIDENING

SEE NOTE 5

+53.16 11.01' LT TEMPORARY WIDENING

+83.55 48.64' LT

+34.59 9.80' LT

+95.89 12.23' LT

+72.13 1.52' RT

+51.06 18.59' RT

+30.17 16.46' LT

+82.42 24.66' LT

SEE NOTE 6

SEE NOTE 4

SEE NOTE 6

+23.34 16.50' RT

+50.68 16.50' RT

+13.21 4.43' RT

+51.98 71.53' RT

SEE NOTE 3

W01-6 48" X 24"

TYPE III BARRICADE

R11-2L 48" X 30"

LANE CLOSED

TYPE III BARRICADE

NW+69.39 0.00' LT PROPOSED PAVEMENT

NW+69.39 12.00' RT PROPOSED PAVEMENT

NW+90.83 12.00' RT PROPOSED PAVEMENT

NW+75.70 20.68' RT

NW+46.90 1.48' RT PROPOSED PAVEMENT

+97.76 16.50' RT

+84.35 42.19' RT

+61.11 38.50' RT

+53.52 16.50' RT

SEE NOTE 6

R11-2R 48" X 30"

RAMP CLOSED

TYPE III BARRICADE

SEE NOTE 4

+68.20 16.50' RT

+93.35 75.91' RT TEMPORARY PAVEMENT

+49.34 16.50' RT

+45.35 71.50' RT

+06.79 14.15' LT TEMPORARY PAVEMENT PAVEMENT

+77.68 55.75' LT

+86.65 21.65' LT PROPOSED PAVEMENT

+77.38 31.75' LT

+87.14 31.43' LT

+52.33 4.99' RT

+53.52 42.41' RT

+23.36 1.43' RT

+27.60 42.63' RT

+67.79 27.34' LT PROPOSED PAVEMENT

+87.97 30.39' LT

+19.35 71.50' RT

+49.23 38.54' RT TEMPORARY PAVEMENT

SEE NOTE 3

SEE NOTE 4

SEE NOTE 2

+69.09 73.50' RT TEMPORARY PAVEMENT

INSTALLED STAGE 1B REMAIN IN PLACE

+09.66 49.50' RT

R=73' TEMPORARY WIDENING

TRUCKS USE LEFT LANE R4-5L 24" X 30"

BEGIN LEFT TURN LANE R3-20L 24" X 36"

R11-2R 48" X 30"

RAMP CLOSED

TYPE III BARRICADE

SE+49.01 17.37' RT PROPOSED PAVEMENT

SE+24.71 0.00' RT PROPOSED PAVEMENT

SE+13.56 14.72' LT

SE+23.28 14.10' RT PROPOSED PAVEMENT

SE+43.60 14.72' LT

SE+88.65 14.72' LT

SE+85.40 24.61' LT

SEE NOTE 3

SEE NOTE 4

+09.87 49.50' RT

+03.70 71.50' RT

+98.94 78.00' RT PROPOSED PAVEMENT

END CONCRETE BARRIER TEMPORARY PRECAST SE+63.74, 10.46' RT

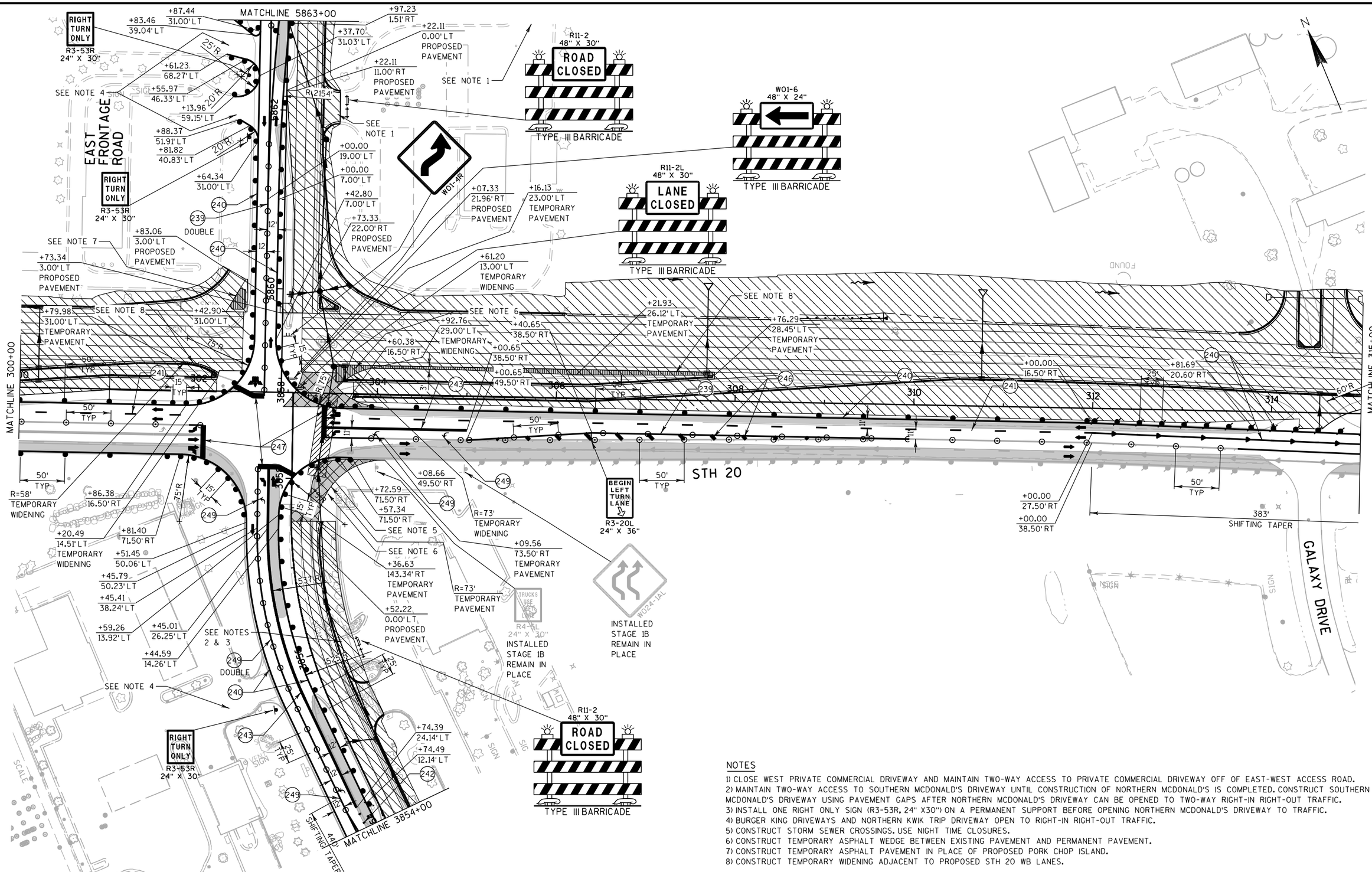
R=73' TEMPORARY WIDENING

NOTES

1) MAINTAIN TWO-WAY ACCESS TO NORTHERN CITGO GAS STATION DRIVEWAY AND ONE-WAY IN ACCESS TO SOUTHERN CITGO GAS STATION DRIVEWAY. CONSTRUCT BOTH DRIVEWAYS IN HALVES USING PAVEMENT GAPS.
2) MAINTAIN TWO-WAY ACCESS TO NORTHERN MOBIL GAS STATION DRIVEWAY UNTIL CONSTRUCTION OF SOUTHERN MOBIL GAS STATION DRIVEWAY IS COMPLETED.
3) CONSTRUCT STORM SEWER CROSSINGS. USE NIGHT TIME CLOSURES AND TEMPORARY PAVEMENT. COVER PLATE INLETS 309 AND 310 UNTIL STAGE 4A.
4) CONSTRUCT TEMPORARY ASPHALT WEDGE BETWEEN EXISTING PAVEMENT AND PERMANENT PAVEMENT.
5) CONSTRUCT TEMPORARY WIDENING ADJACENT TO PROPOSED STH 20 WB LANES.
6) CONSTRUCT TEMPORARY ASPHALT PAVEMENT IN PLACE OF PROPOSED MEDIAN ISLANDS AND PORK CHOP ISLANDS.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2A CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026213_s2a.dgn PLOT DATE : 13-DEC-2019 18:01 PLOT BY : MSCNEG PLOT NAME : 026213_s2a PLOT SCALE : 100:1



NOTES

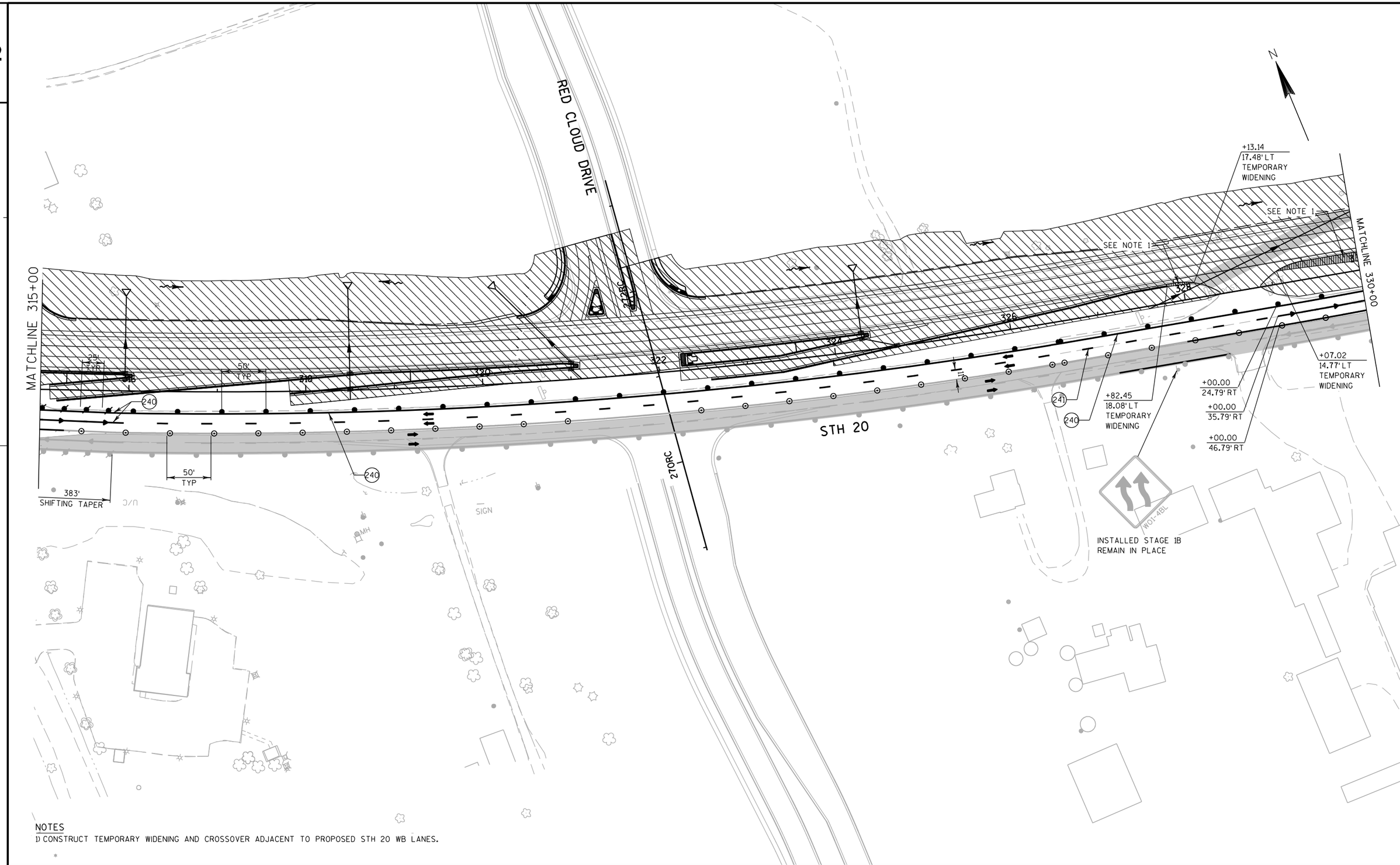
1) CLOSE WEST PRIVATE COMMERCIAL DRIVEWAY AND MAINTAIN TWO-WAY ACCESS TO PRIVATE COMMERCIAL DRIVEWAY OFF OF EAST-WEST ACCESS ROAD.
2) MAINTAIN TWO-WAY ACCESS TO SOUTHERN MCDONALD'S DRIVEWAY UNTIL CONSTRUCTION OF NORTHERN MCDONALD'S IS COMPLETED. CONSTRUCT SOUTHERN MCDONALD'S DRIVEWAY USING PAVEMENT GAPS AFTER NORTHERN MCDONALD'S DRIVEWAY CAN BE OPENED TO TWO-WAY RIGHT-IN RIGHT-OUT TRAFFIC.
3) INSTALL ONE RIGHT ONLY SIGN (R3-53R, 24" X30") ON A PERMANENT SUPPORT BEFORE OPENING NORTHERN MCDONALD'S DRIVEWAY TO TRAFFIC.
4) BURGER KING DRIVEWAYS AND NORTHERN KWIK TRIP DRIVEWAY OPEN TO RIGHT-IN RIGHT-OUT TRAFFIC.
5) CONSTRUCT STORM SEWER CROSSINGS. USE NIGHT TIME CLOSURES.
6) CONSTRUCT TEMPORARY ASPHALT WEDGE BETWEEN EXISTING PAVEMENT AND PERMANENT PAVEMENT.
7) CONSTRUCT TEMPORARY ASPHALT PAVEMENT IN PLACE OF PROPOSED PORK CHOP ISLAND.
8) CONSTRUCT TEMPORARY WIDENING ADJACENT TO PROPOSED STH 20 WB LANES.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2A CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026214_s2a.dgn PLOT DATE : 13-DEC-2019 18:01 PLOT BY : MSCNEG PLOT NAME : 026214_s2a PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

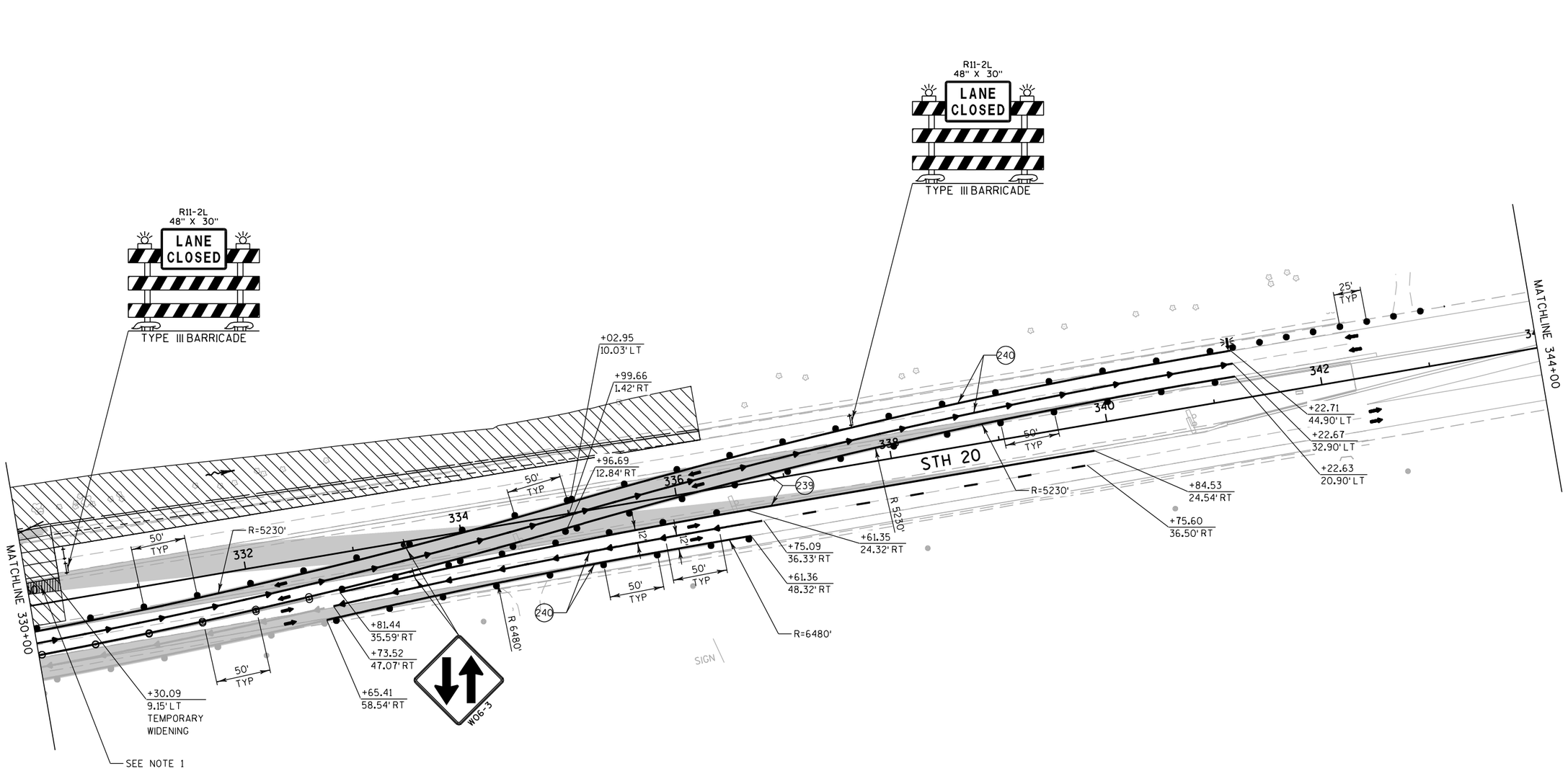


NOTES

1) CONSTRUCT TEMPORARY WIDENING AND CROSSOVER ADJACENT TO PROPOSED STH 20 WB LANES.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2A CONSTRUCTION	SHEET	E

2

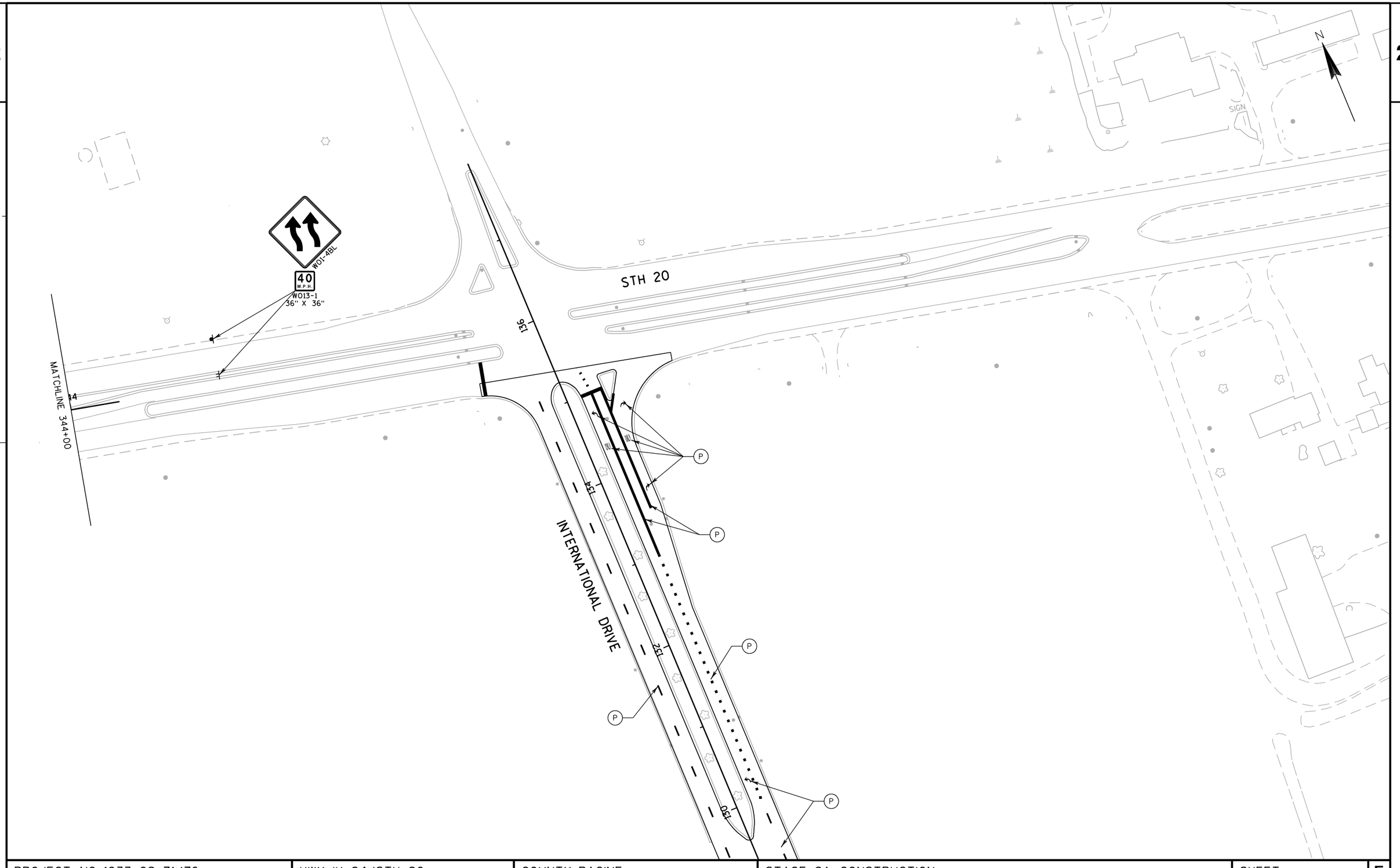


NOTES

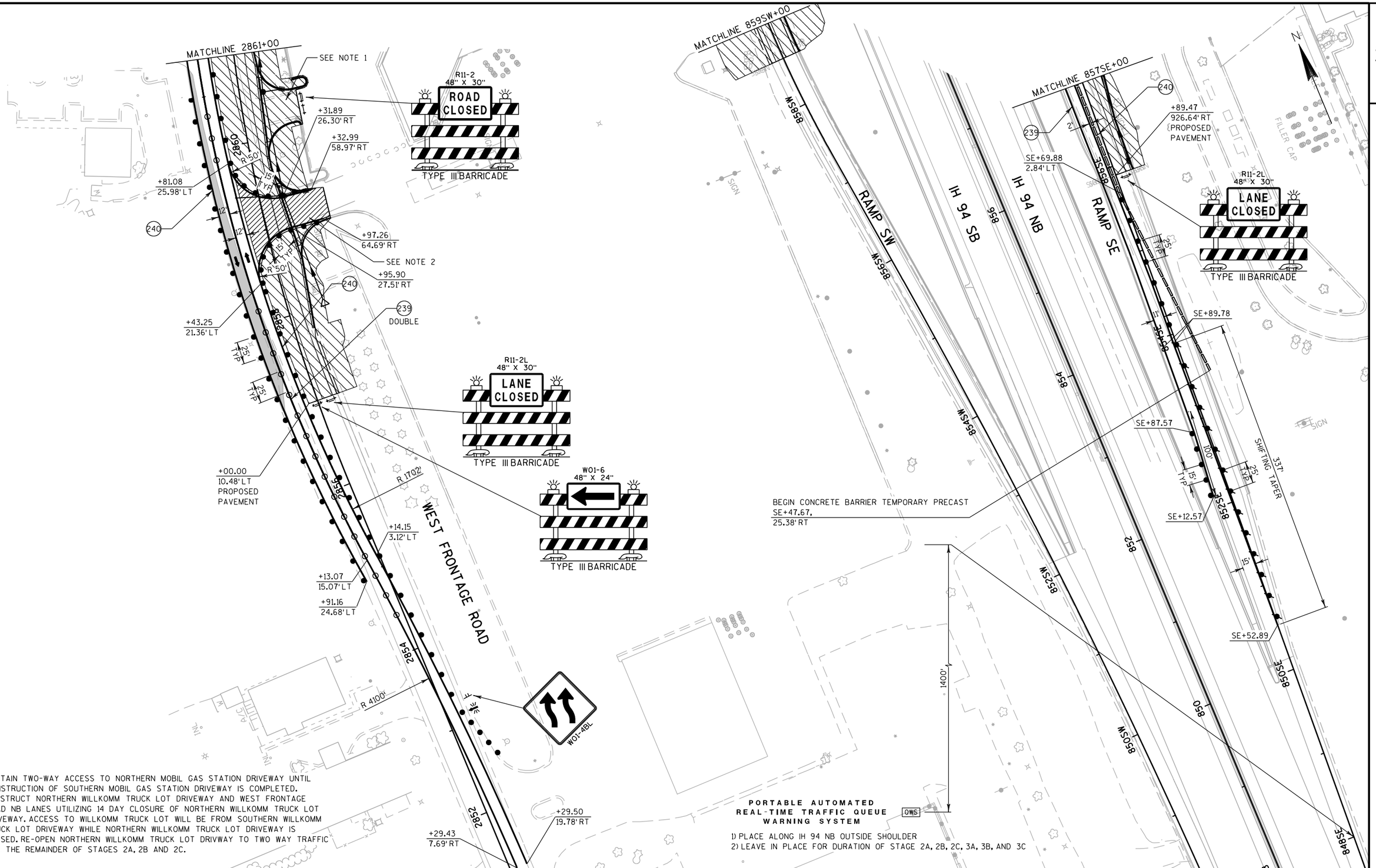
1) CONSTRUCT TEMPORARY WIDENING AND CROSSOVER ADJACENT TO PROPOSED STH 20 WB LANES.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2A CONSTRUCTION	SHEET	E

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2A CONSTRUCTION	SHEET	E



NOTE

1) MAINTAIN TWO-WAY ACCESS TO NORTHERN MOBIL GAS STATION DRIVEWAY UNTIL CONSTRUCTION OF SOUTHERN MOBIL GAS STATION DRIVEWAY IS COMPLETED.
2) CONSTRUCT NORTHERN WILLKOMM TRUCK LOT DRIVEWAY AND WEST FRONTAGE ROAD NB LANES UTILIZING 14 DAY CLOSURE OF NORTHERN WILLKOMM TRUCK LOT DRIVEWAY. ACCESS TO WILLKOMM TRUCK LOT WILL BE FROM SOUTHERN WILLKOMM TRUCK LOT DRIVEWAY WHILE NORTHERN WILLKOMM TRUCK LOT DRIVEWAY IS CLOSED. RE-OPEN NORTHERN WILLKOMM TRUCK LOT DRIVWAY TO TWO WAY TRAFFIC FOR THE REMAINDER OF STAGES 2A, 2B AND 2C.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2A CONSTRUCTION	SHEET	E

PORTABLE AUTOMATED REAL-TIME TRAFFIC QUEUE WARNING SYSTEM QWS

1) PLACE ALONG IH 94 SB OUTSIDE SHOULDER
2) LEAVE IN PLACE FOR DURATION OF STAGE 2A, 2B, 2C, 3A, 3B, AND 3C

1200'

4876
4874
4872
4870
876
876NW
874NW
874
872NW
872
874NE
872NE
870NE
868NE
5876
5874

RAMP NW
RAMP NE
IH 94 SB
IH 94 NB
WEST FRONTAGE ROAD
EAST FRONTAGE ROAD

+60.40
8.00' RT

+60.31
20.00' RT

+04.70
20.00' LT

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

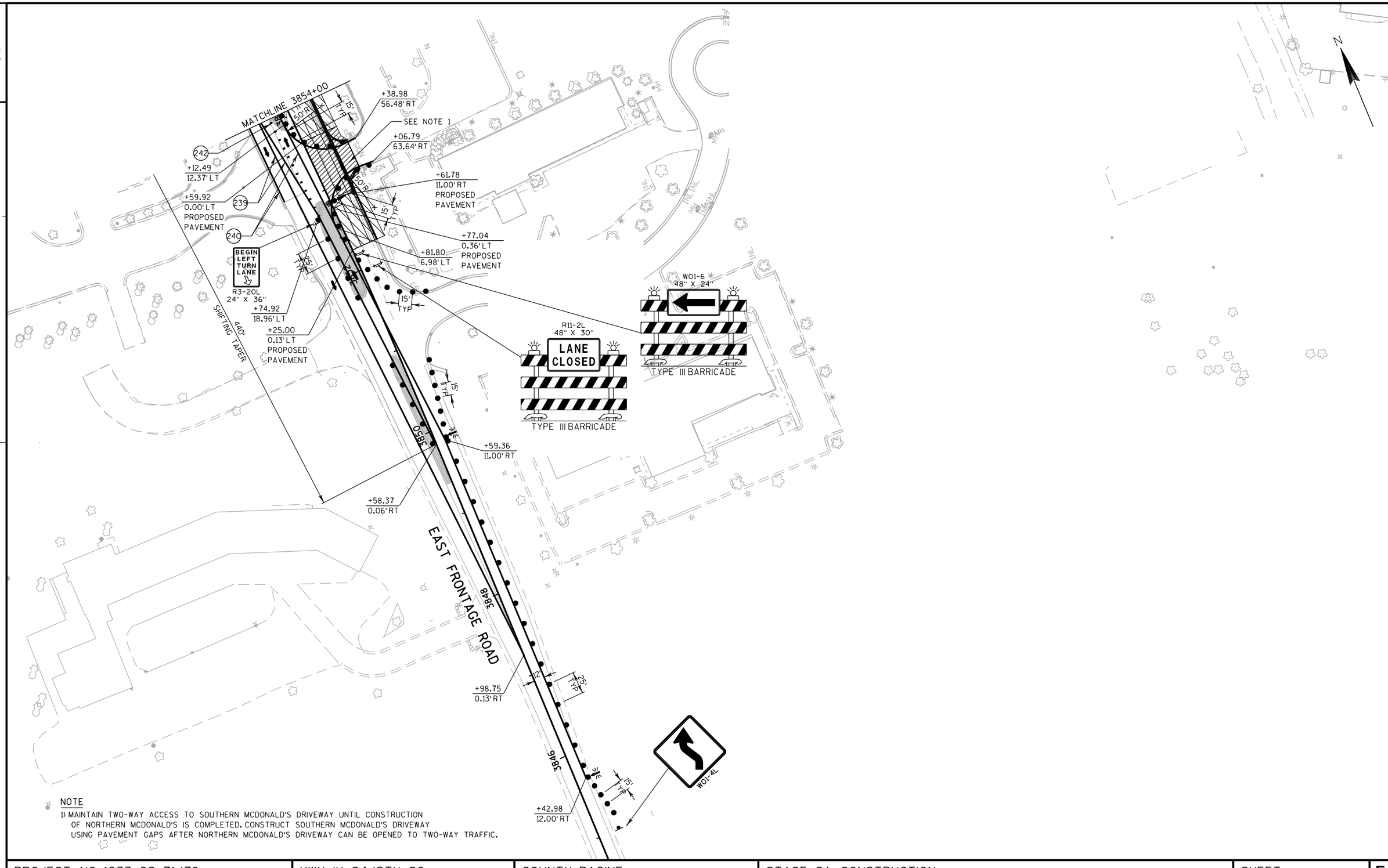
239
*DOUBLE
240

NW+51.25
0.00' LT
PROPOSED
PAVEMENT

NW+51.27

MATCHLINE 4868+00
MATCHLINE 868NW+00
MATCHLINE 866NE+00

2



NOTE

1) MAINTAIN TWO-WAY ACCESS TO SOUTHERN MCDONALD'S DRIVEWAY UNTIL CONSTRUCTION OF NORTHERN MCDONALD'S IS COMPLETED. CONSTRUCT SOUTHERN MCDONALD'S DRIVEWAY USING PAVEMENT GAPS AFTER NORTHERN MCDONALD'S DRIVEWAY CAN BE OPENED TO TWO-WAY TRAFFIC.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2A CONSTRUCTION	SHEET	E

2

N

5870

+02.43
20.00' LT

5868

LEFT LANE
MUST
TURN LEFT
R3-7L
30" X 30"

+47.77
13.54' LT

15'
TYP

+98.87

240

50'
TYP

5866

EAST FRONTAGE ROAD

R 678'

242

+00.23
15.21' LT

243

+77.74
27.55' LT

12'

60'R

15'

R11-2L
48" X 30"
LANE
CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

5864

+18.50
16.58' LT

240

15'
TYP

113

+42.60

+42.29

+47.66
62.36' RT

KILBOURN DRIVE

+63.41
78.19' LT

+66.00
102.08' LT

15'
TYP

240

50'R

R 60

15'
TYP

+45.82
100.02' RT

+16.31
10.74' RT
PROPOSED
PAVEMENT

MATCHLINE 5863+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2A CONSTRUCTION	SHEET	E

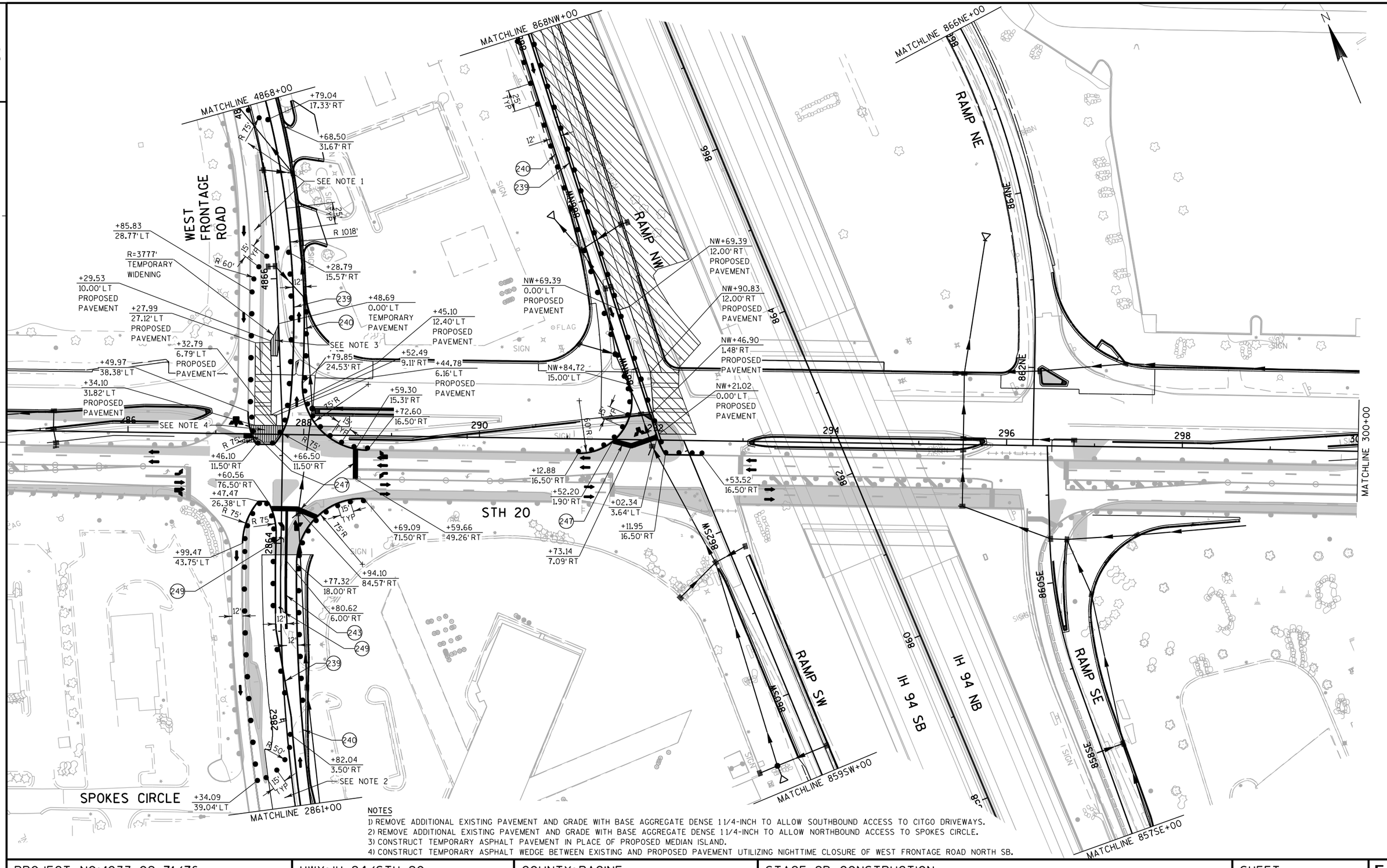
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WISDOT/CADDS SHEET 42

STAGE 2B

CONSTRUCTION
- CONTINUE CONSTRUCTION OF STH 20 WB LANES AND TEMPORARY ASPHALT
- CONTINUE CONSTRUCTION OF RAMP SW
- BEGIN CONSTRUCTION OF RAMP NW LEFT TURN LANES AND INSIDE SHOULDER
- CONTINUE CONSTRUCTION OF RAMP SE RIGHT TURN LANE
- CONTINUE CONSTRUCTION OF RAMP NE
- CONSTRUCT WEST FRONTAGE ROAD MEDIAN PAVEMENT
- CONSTRUCT EAST FRONTAGE ROAD MEDIAN PAVEMENT
- CONTINUE CONSTRUCTION OF NORTH RED CLOUD DRIVE

TRAFFIC
- STH 20 EB - TWO LANES OPEN ON STH 20 EB EXISTING PAVEMENT AND TEMPORARY WIDENING
- STH 20 WB - TWO LANES OPEN ON STH 20 EB EXISTING PAVEMENT AND TEMPORARY WIDENING
- RAMP SW - CLOSED TO TRAFFIC
- RAMP NW - ONE LANE OPEN
- RAMP SE - ONE LANE OPEN
- RAMP NE - CLOSED TO TRAFFIC
- WEST FRONTAGE ROAD - ONE LANE OPEN IN EACH DIRECTION, TRAFFIC SPLIT TO OUTSIDES
- EAST FRONTAGE ROAD - ONE LANE OPEN IN EACH DIRECTION, TRAFFIC SPLIT TO OUTSIDES
- RED CLOUD DRIVE - CLOSED TO TRAFFIC
- INTERNATIONAL DRIVE - ALL LANES OPEN

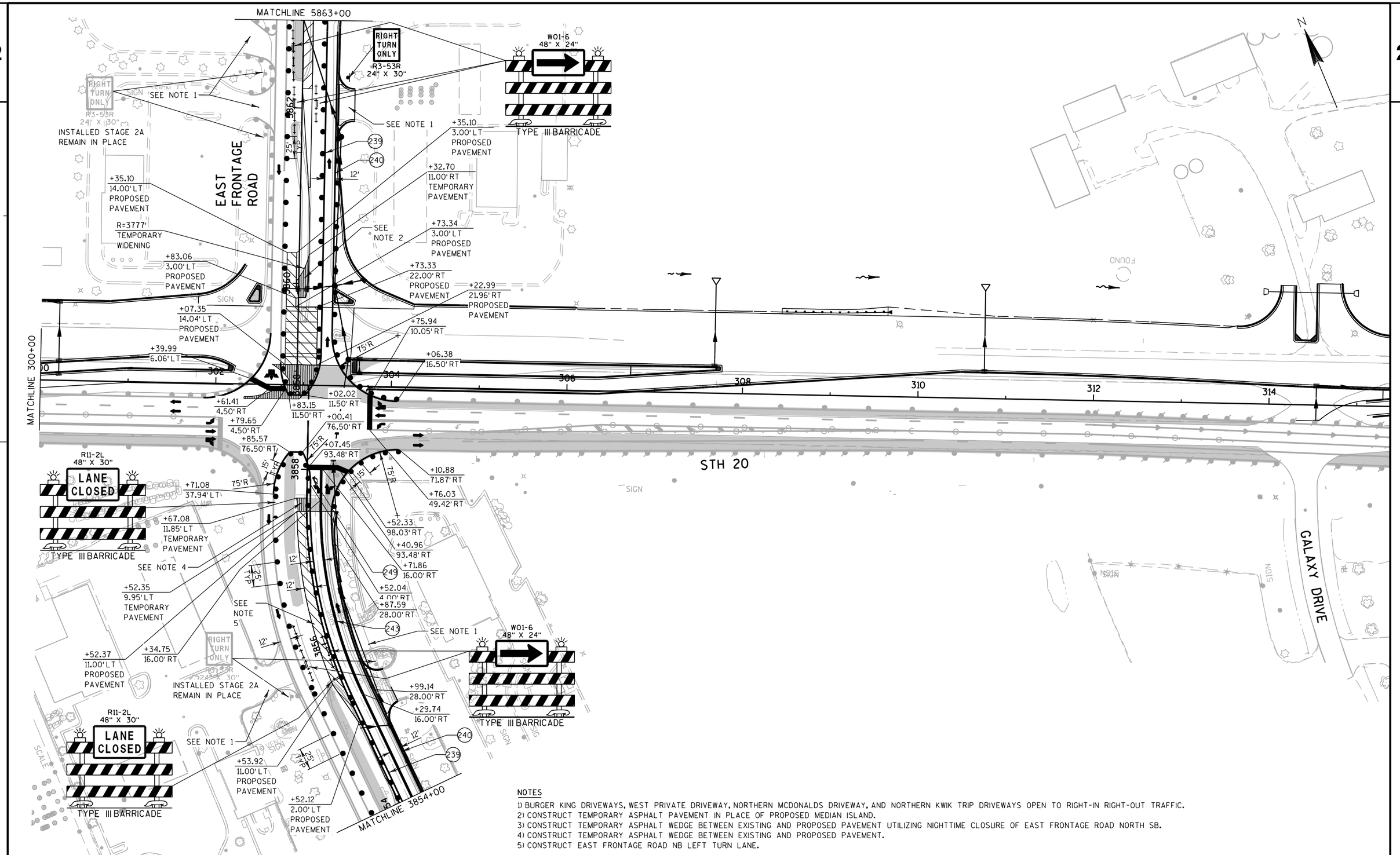
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE CONSTRUCTION: OVERVIEW - STAGE 2B	SHEET	E



NOTES

1) REMOVE ADDITIONAL EXISTING PAVEMENT AND GRADE WITH BASE AGGREGATE DENSE 1 1/4-INCH TO ALLOW SOUTHBOUND ACCESS TO CITGO DRIVEWAYS.
2) REMOVE ADDITIONAL EXISTING PAVEMENT AND GRADE WITH BASE AGGREGATE DENSE 1 1/4-INCH TO ALLOW NORTHBOUND ACCESS TO SPOKES CIRCLE.
3) CONSTRUCT TEMPORARY ASPHALT PAVEMENT IN PLACE OF PROPOSED MEDIAN ISLAND.
4) CONSTRUCT TEMPORARY ASPHALT WEDGE BETWEEN EXISTING AND PROPOSED PAVEMENT UTILIZING NIGHTTIME CLOSURE OF WEST FRONTAGE ROAD NORTH SB.

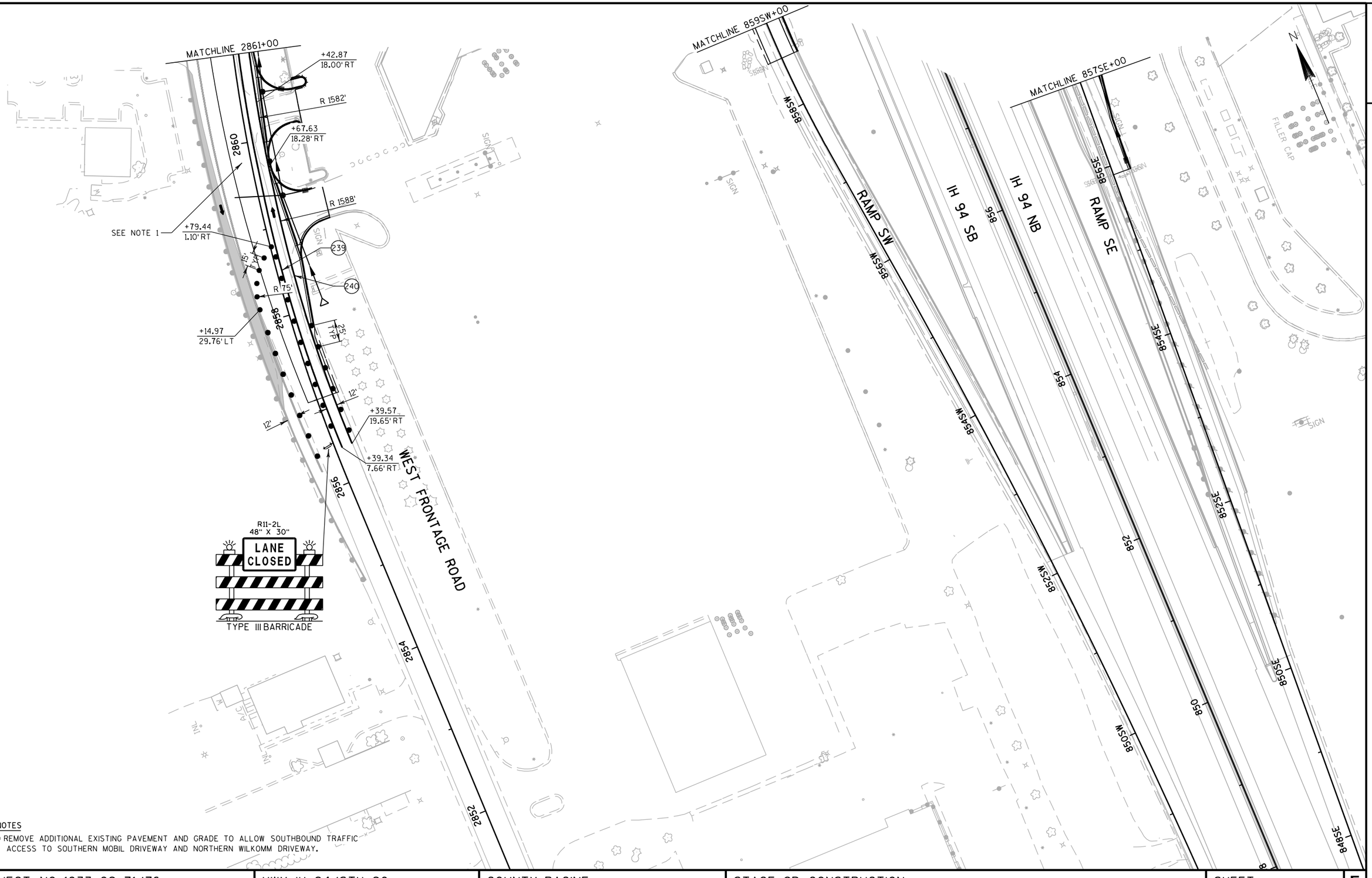
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2B CONSTRUCTION	SHEET	E



NOTES

1) BURGER KING DRIVEWAYS, WEST PRIVATE DRIVEWAY, NORTHERN MCDONALDS DRIVEWAY, AND NORTHERN KWIK TRIP DRIVEWAYS OPEN TO RIGHT-IN RIGHT-OUT TRAFFIC.
2) CONSTRUCT TEMPORARY ASPHALT PAVEMENT IN PLACE OF PROPOSED MEDIAN ISLAND.
3) CONSTRUCT TEMPORARY ASPHALT WEDGE BETWEEN EXISTING AND PROPOSED PAVEMENT UTILIZING NIGHTTIME CLOSURE OF EAST FRONTAGE ROAD NORTH SB.
4) CONSTRUCT TEMPORARY ASPHALT WEDGE BETWEEN EXISTING AND PROPOSED PAVEMENT.
5) CONSTRUCT EAST FRONTAGE ROAD NB LEFT TURN LANE.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2B CONSTRUCTION	SHEET	E



NOTES

1) REMOVE ADDITIONAL EXISTING PAVEMENT AND GRADE TO ALLOW SOUTHBOUND TRAFFIC ACCESS TO SOUTHERN MOBIL DRIVEWAY AND NORTHERN WILKOMM DRIVEWAY.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2B CONSTRUCTION	SHEET	E

2

N

EAST FRONTAGE ROAD

WEST FRONTAGE ROAD

RAMP NW

RAMP NE

IH 94 SB

IH 94 NB

W01-4BR

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

NW+63.88
15.00' RT

NW+55.76
14.71' RT
PROPOSED
PAVEMENT

SEE NOTE 1

NW+55.00
15.00' RT
PROPOSED
PAVEMENT

NW+50.00
12.00' RT
PROPOSED
PAVEMENT

+49.29
8.02' RT

+27.63
20.00' RT

+96.13
33.16' RT

NW+51.27
12.00' RT
PROPOSED
PAVEMENT

NW+51.27
0.00' LT
PROPOSED
PAVEMENT

NW+51.27
3.00' LT

MATCHLINE 4868+00

MATCHLINE 868NW+00

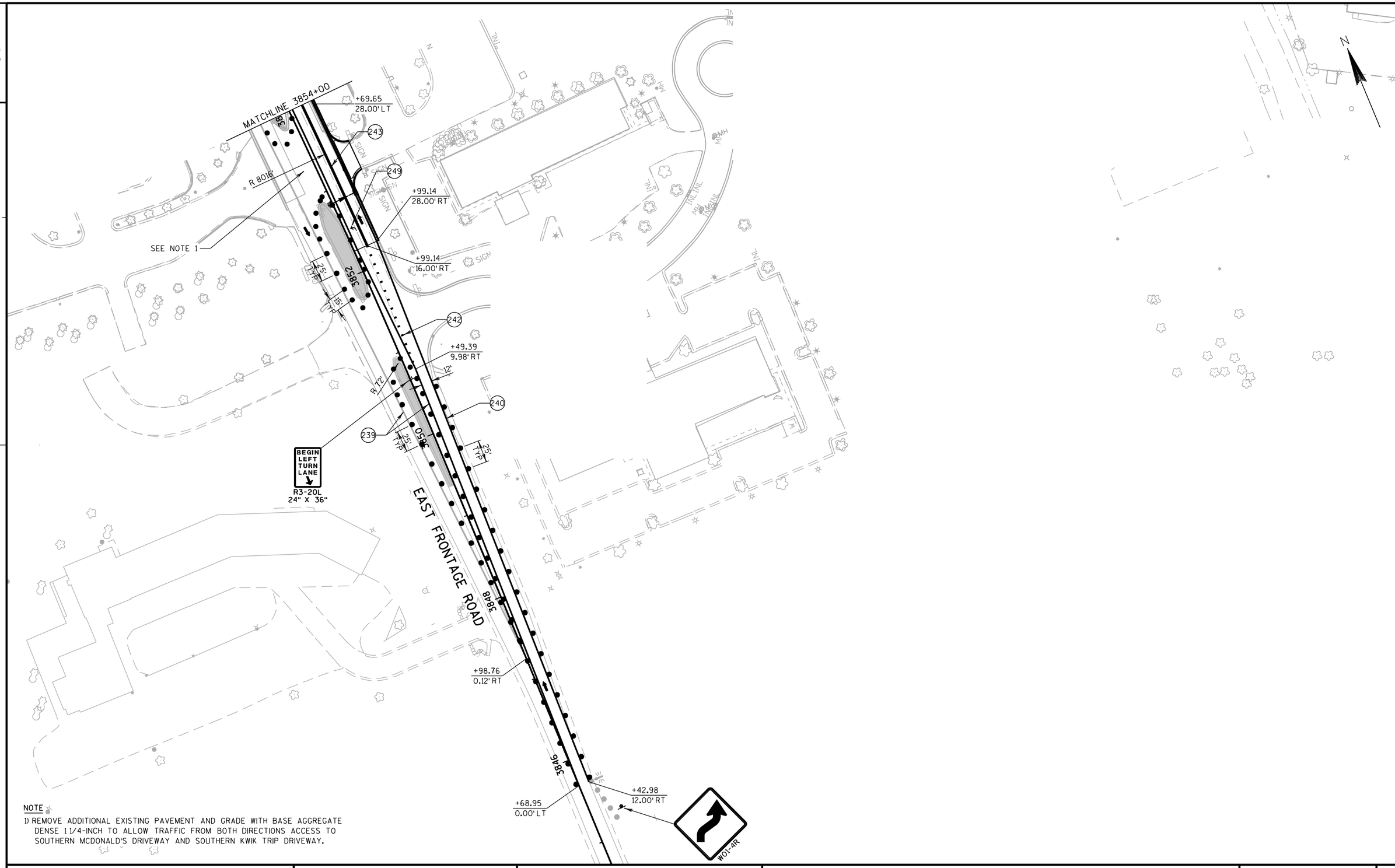
MATCHLINE 866NE+00

NOTE

1) SEE SDD 15D15-E TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE AND SDD 15D27 TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH FOR IH 94 SB BARRIER WALL RECONSTUCTION.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2B CONSTRUCTION	SHEET	E

2

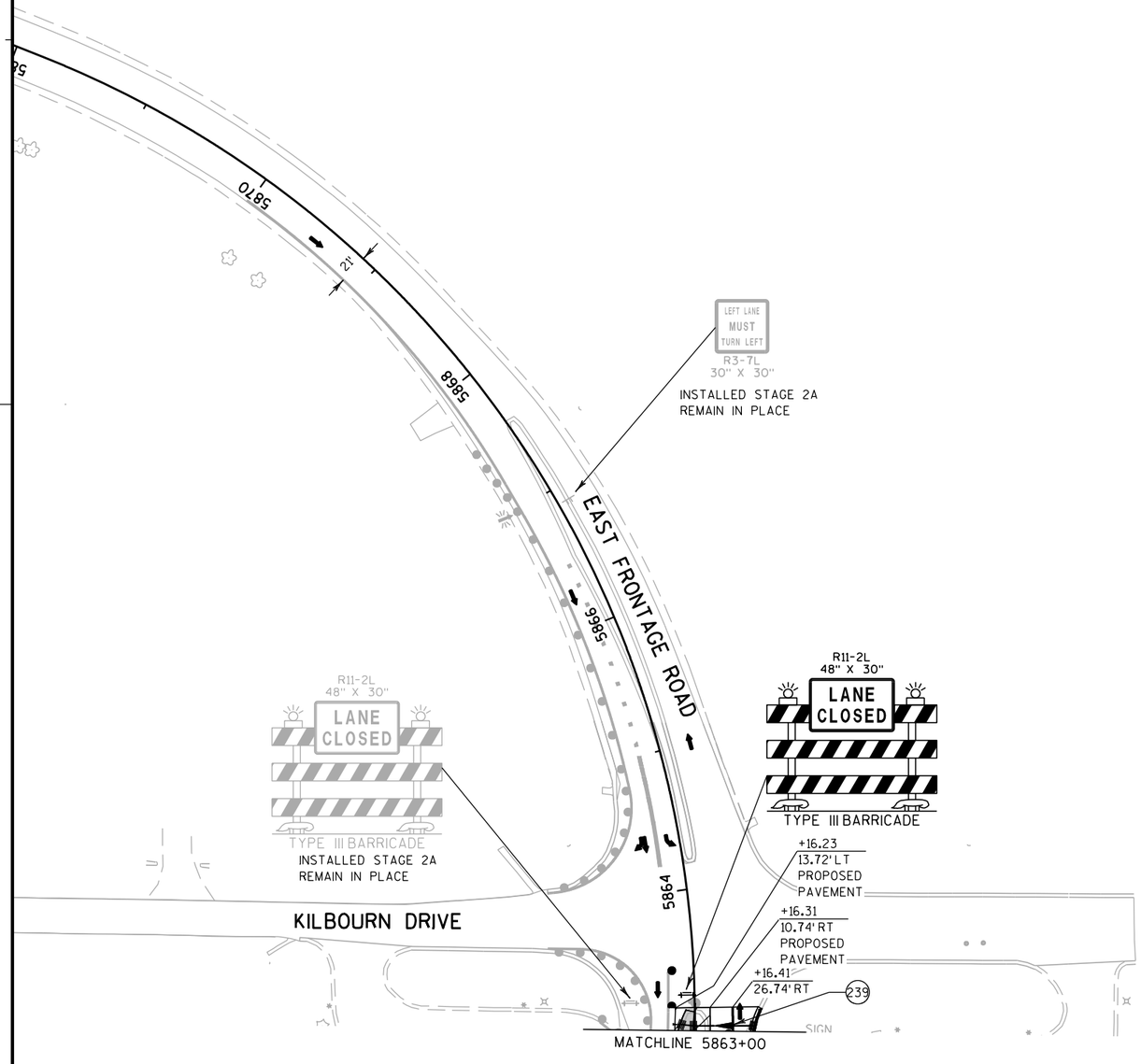


NOTE

1) REMOVE ADDITIONAL EXISTING PAVEMENT AND GRADE WITH BASE AGGREGATE DENSE 1 1/4-INCH TO ALLOW TRAFFIC FROM BOTH DIRECTIONS ACCESS TO SOUTHERN MCDONALD'S DRIVEWAY AND SOUTHERN KWIK TRIP DRIVEWAY.

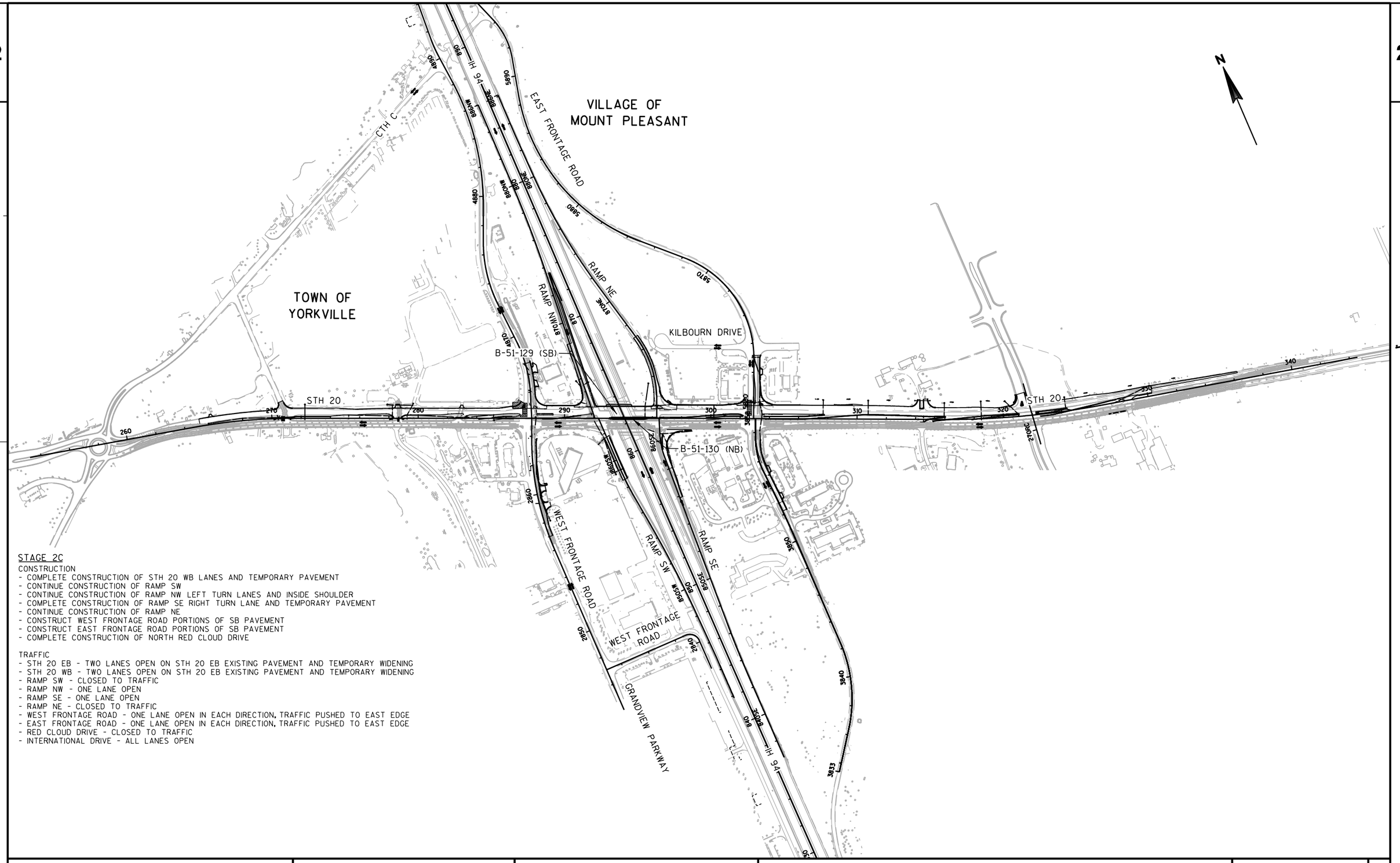
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2B CONSTRUCTION	SHEET	E

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2B CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026321_s2b.dgn PLOT DATE : 13-DEC-2019 18:04 PLOT BY : mscd1s PLOT NAME : 026321_s2b PLOT SCALE : 100:1



STAGE 2C

CONSTRUCTION
- COMPLETE CONSTRUCTION OF STH 20 WB LANES AND TEMPORARY PAVEMENT
- CONTINUE CONSTRUCTION OF RAMP SW
- CONTINUE CONSTRUCTION OF RAMP NW LEFT TURN LANES AND INSIDE SHOULDER
- COMPLETE CONSTRUCTION OF RAMP SE RIGHT TURN LANE AND TEMPORARY PAVEMENT
- CONTINUE CONSTRUCTION OF RAMP NE
- CONSTRUCT WEST FRONTAGE ROAD PORTIONS OF SB PAVEMENT
- CONSTRUCT EAST FRONTAGE ROAD PORTIONS OF SB PAVEMENT
- COMPLETE CONSTRUCTION OF NORTH RED CLOUD DRIVE

TRAFFIC
- STH 20 EB - TWO LANES OPEN ON STH 20 EB EXISTING PAVEMENT AND TEMPORARY WIDENING
- STH 20 WB - TWO LANES OPEN ON STH 20 EB EXISTING PAVEMENT AND TEMPORARY WIDENING
- RAMP SW - CLOSED TO TRAFFIC
- RAMP NW - ONE LANE OPEN
- RAMP SE - ONE LANE OPEN
- RAMP NE - CLOSED TO TRAFFIC
- WEST FRONTAGE ROAD - ONE LANE OPEN IN EACH DIRECTION, TRAFFIC PUSHED TO EAST EDGE
- EAST FRONTAGE ROAD - ONE LANE OPEN IN EACH DIRECTION, TRAFFIC PUSHED TO EAST EDGE
- RED CLOUD DRIVE - CLOSED TO TRAFFIC
- INTERNATIONAL DRIVE - ALL LANES OPEN

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE CONSTRUCTION: OVERVIEW - STAGE 2C	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026400_s2c.dgn PLOT DATE : 13-DEC-2019 16:44 PLOT BY : mscdls PLOT NAME : 026400_s2c PLOT SCALE : 600:1

2

MATCHLINE 4868+00

MATCHLINE 868NW+00

MATCHLINE 866NE+00

MATCHLINE 285+00

MATCHLINE 2861+00

MATCHLINE 859SW+00

MATCHLINE 857SE+00

MATCHLINE 300+00

WEST FRONTAGE ROAD

SPOKES CIRCLE

STH 20

RAMP NW

RAMP NE

RAMP SW

RAMP SE

IH 94 SB

IH 94 NB

SEE NOTE 1

+54.69
7.41' RT

+27.99
27.12' LT
PROPOSED
PAVEMENT

+76.70
0.04' LT

+47.71
62.31' LT
PROPOSED
PAVEMENT

+36.53
78.19' LT
PROPOSED
PAVEMENT

+34.10
31.82' LT
PROPOSED
PAVEMENT

+49.34
16.50' RT

+98.36
16.50' RT

+08.87
38.50' RT

+85.71
3.39' RT

+69.58
38.50' RT

+39.40
6.00' RT

+45.35
71.50' RT

+95.09
71.50' RT

+09.24
72.85' RT

+77.59
6.00' LT

R11-2L
48" X 30"
LANE
CLOSED

TYPE III BARRICADE

W01-6
48" X 24"

TYPE III BARRICADE

R 1006'

R 1906'

75' R

12'

11'

15' TYP

25' TYP

NOTES

1) CONSTRUCT TEMPORARY ASPHALT PAVEMENT IN PLACE OF PROPOSED PORK CHOP ISLAND.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2C CONSTRUCTION	SHEET	E

2

MATCHLINE 5863+00

EAST FRONTAGE ROAD

+90.74
48.55' LT

+61.23
68.27' LT

+13.90
58.52' LT

+88.32
55.27' LT

+38.80
14.99' RT

+10.10
14.00' LT
PROPOSED
PAVEMENT

+10.10
40.00' LT
PROPOSED
PAVEMENT

+07.35
14.04' LT
PROPOSED
PAVEMENT

+07.36
44.30' LT
PROPOSED
PAVEMENT

+86.09
6.16' LT

+32.38
16.50' RT

+86.38
16.50' RT

+42.88
15.00' RT

+20.82
27.00' RT

+19.41
4.36' RT

+07.41
4.36' RT

+71.89
4.00' RT

+81.43
71.50' RT

+06.05
60.50' RT

+23.50
71.50' RT

+17.14
50.00' LT

+52.20
4.00' RT

+52.33
7.95' LT

+81.03
1.43' RT

R11-2L
48" X 30"
LANE
CLOSED
TYPE III BARRICADE

W01-6
48" X 24"
TYPE III BARRICADE

MATCHLINE 3854+00

MATCHLINE 300+00

MATCHLINE 315+00

STH 20

GALAXY DRIVE

N

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2C CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026414_s2c.dgn PLOT DATE : 13-DEC-2019 16:45 PLOT BY : mscd1s PLOT NAME : 026414_s2c PLOT SCALE : 100:1

2

MATCHLINE 2861+00

R=1906'

12'

12'

+42.87
6.00' LT

2860

R 1906'

+35.37
5.75' LT

240

2858

W01-4R

R 1612'

25' TYP

25' TYP

+39.11
4.34' LT

2856

WEST FRONTAGE ROAD

R 4100'

2854

+83.19
12.00' LT

R 4100'

2852

+68.09
19.80' LT

+68.13
7.80' LT

SIGN

MATCHLINE 859SW+00

858SW

RAMP SW

856SW

854SW

852SW

850SW

848SW

IH 94 SB

856

IH 94 NB

854

852

850

848

MATCHLINE 857SE+00

858SE

RAMP SE

856SE

854SE

852SE

850SE

848SE

FILLER CAP

N

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2C CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026418_s2c.dgn PLOT DATE : 13-DEC-2019 16:45 PLOT BY : mscd1s PLOT NAME : 026418_s2c PLOT SCALE : 100:1

2

W01-4L

4876

+09.78
8.00' LT

+09.78
20.00' LT

4874

R=800'

+29.38
4.15' LT

WEST FRONTAGE ROAD

4870

12'

12'

R 888'

25' TYP

25' TYP

MATCHLINE 4868+00

W01-6
48" X 24"

TYPE III BARRICADE

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

876NW

876

874NW

874

872NW

872

RAMP NW

870NW

870

IH 94 SB

IH 94 NB

868

MATCHLINE 868NW+00

876NE

874NE

872NE

RAMP NE

870NE

868NE

MATCHLINE 866NE+00

EAST FRONTAGE ROAD

5876

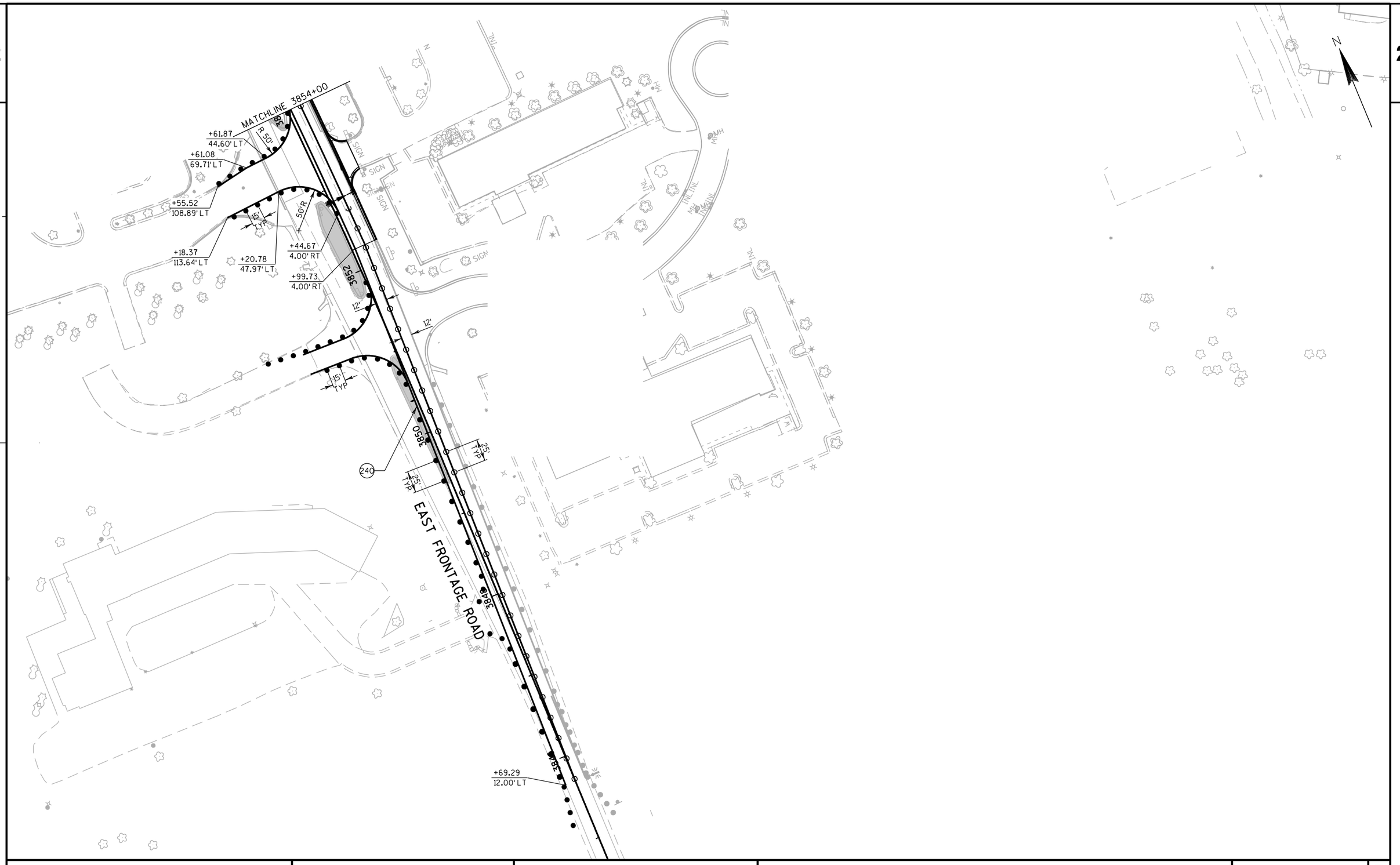
5874

N

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2C CONSTRUCTION	SHEET	E

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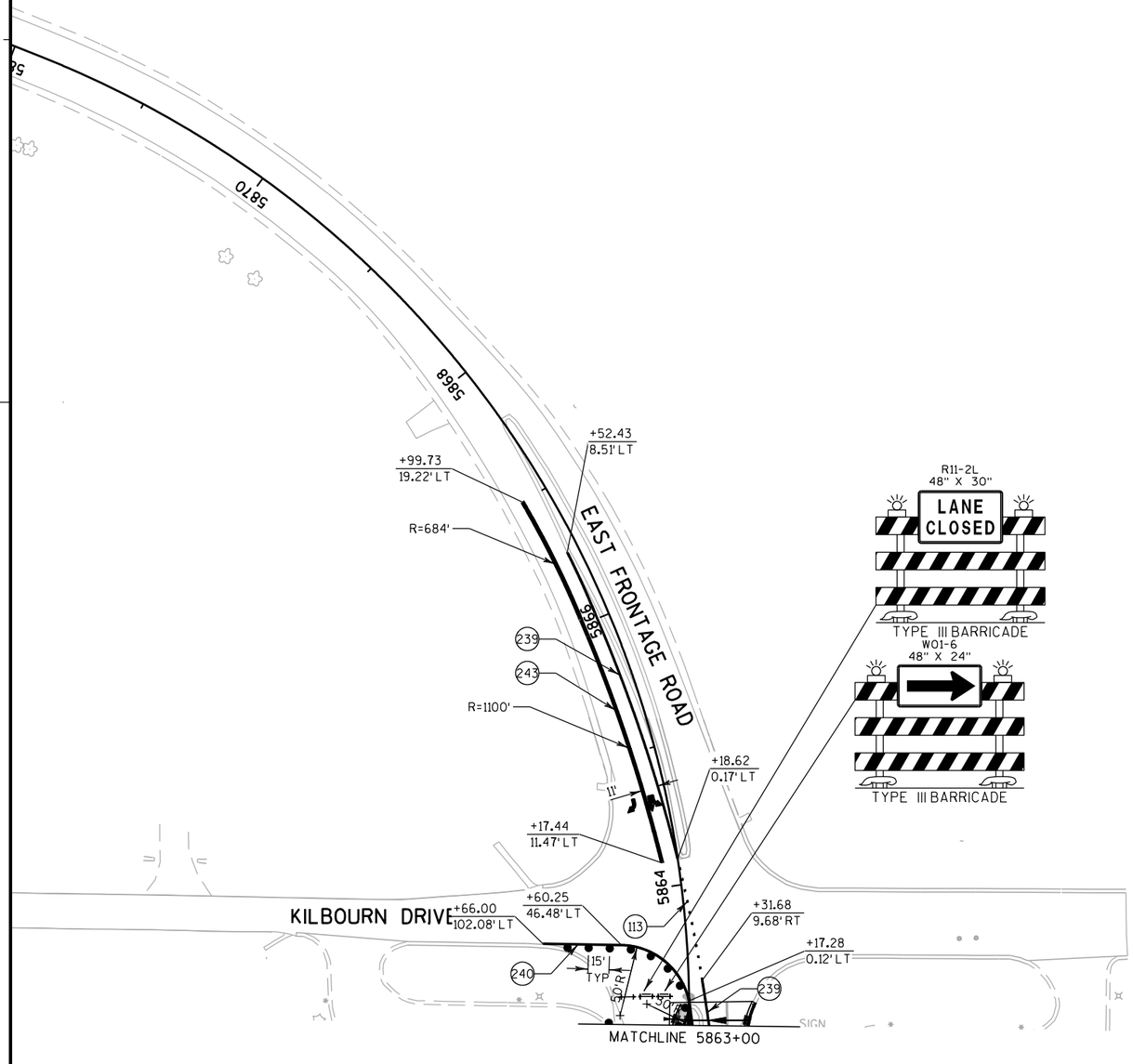


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2C CONSTRUCTION	SHEET	E

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WISDOT/CADDS SHEET 42

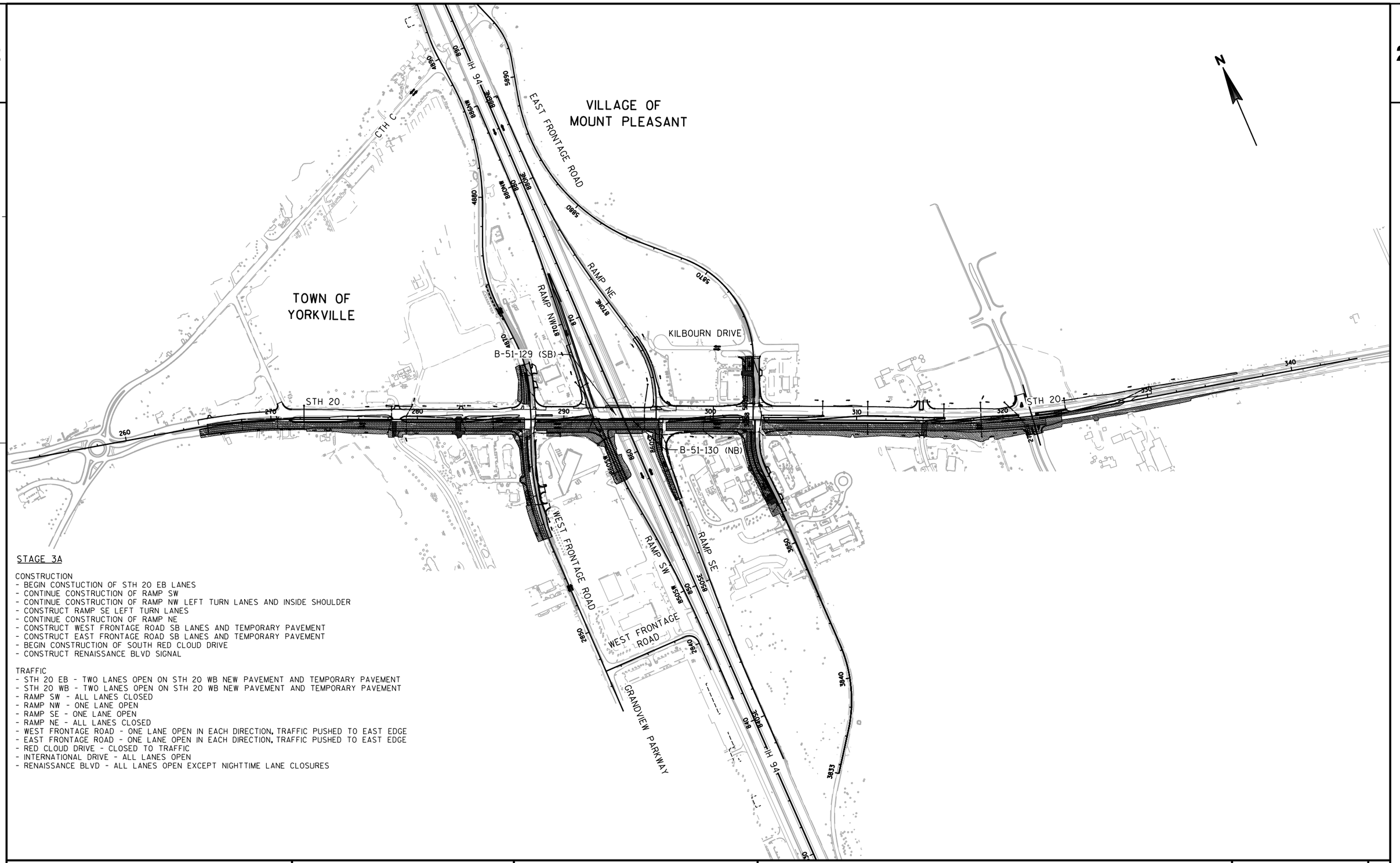
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2C CONSTRUCTION	SHEET	E

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WISDOT/CADDS SHEET 42

2



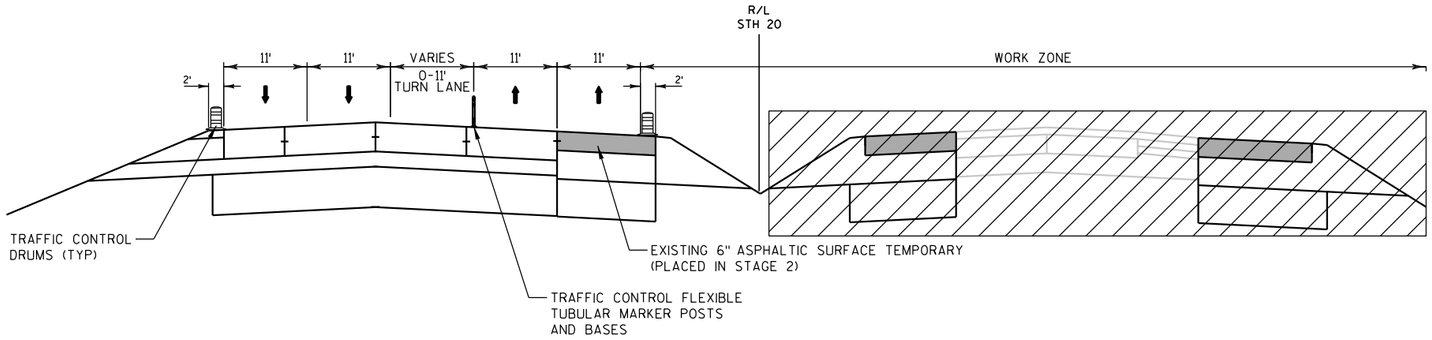
STAGE 3A

CONSTRUCTION
- BEGIN CONSTUCTION OF STH 20 EB LANES
- CONTINUE CONSTRUCTION OF RAMP SW
- CONTINUE CONSTRUCTION OF RAMP NW LEFT TURN LANES AND INSIDE SHOULDER
- CONSTRUCT RAMP SE LEFT TURN LANES
- CONTINUE CONSTRUCTION OF RAMP NE
- CONSTRUCT WEST FRONTAGE ROAD SB LANES AND TEMPORARY PAVEMENT
- CONSTRUCT EAST FRONTAGE ROAD SB LANES AND TEMPORARY PAVEMENT
- BEGIN CONSTRUCTION OF SOUTH RED CLOUD DRIVE
- CONSTRUCT RENAISSANCE BLVD SIGNAL

TRAFFIC
- STH 20 EB - TWO LANES OPEN ON STH 20 WB NEW PAVEMENT AND TEMPORARY PAVEMENT
- STH 20 WB - TWO LANES OPEN ON STH 20 WB NEW PAVEMENT AND TEMPORARY PAVEMENT
- RAMP SW - ALL LANES CLOSED
- RAMP NW - ONE LANE OPEN
- RAMP SE - ONE LANE OPEN
- RAMP NE - ALL LANES CLOSED
- WEST FRONTAGE ROAD - ONE LANE OPEN IN EACH DIRECTION, TRAFFIC PUSHED TO EAST EDGE
- EAST FRONTAGE ROAD - ONE LANE OPEN IN EACH DIRECTION, TRAFFIC PUSHED TO EAST EDGE
- RED CLOUD DRIVE - CLOSED TO TRAFFIC
- INTERNATIONAL DRIVE - ALL LANES OPEN
- RENAISSANCE BLVD - ALL LANES OPEN EXCEPT NIGHTTIME LANE CLOSURES

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE CONSTRUCTION: OVERVIEW - STAGE 3A	SHEET	E

2



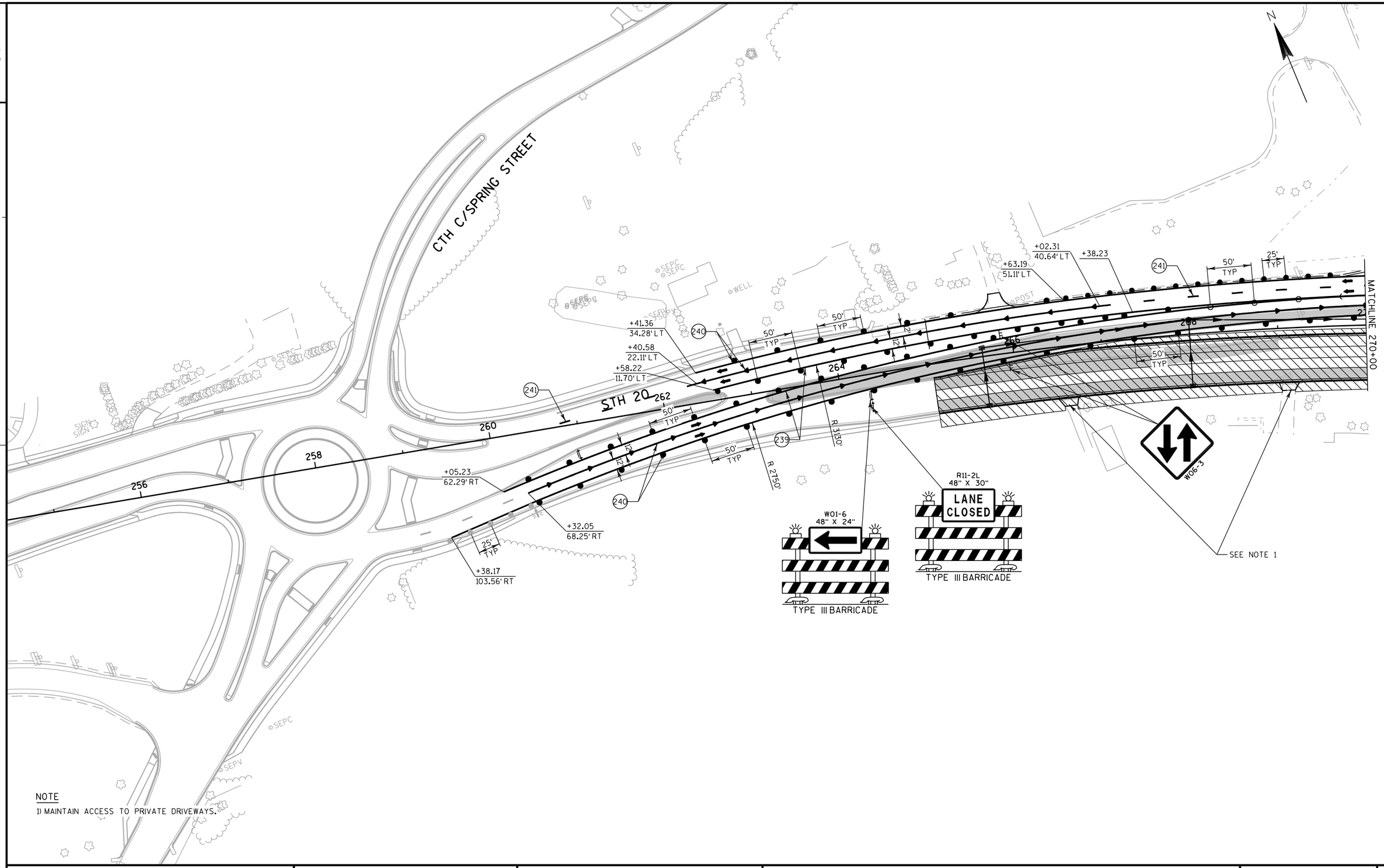
STAGE 3 TYPICAL SECTION

STH 20
LOOKING EAST

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE CONSTRUCTION: TYPICAL SECTIONS - STAGE 3	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026501_s3a.dgn PLOT DATE : 16-DEC-2019 09:24 PLOT BY : MSCNEG PLOT NAME : 026501_s3a PLOT SCALE : 20:1

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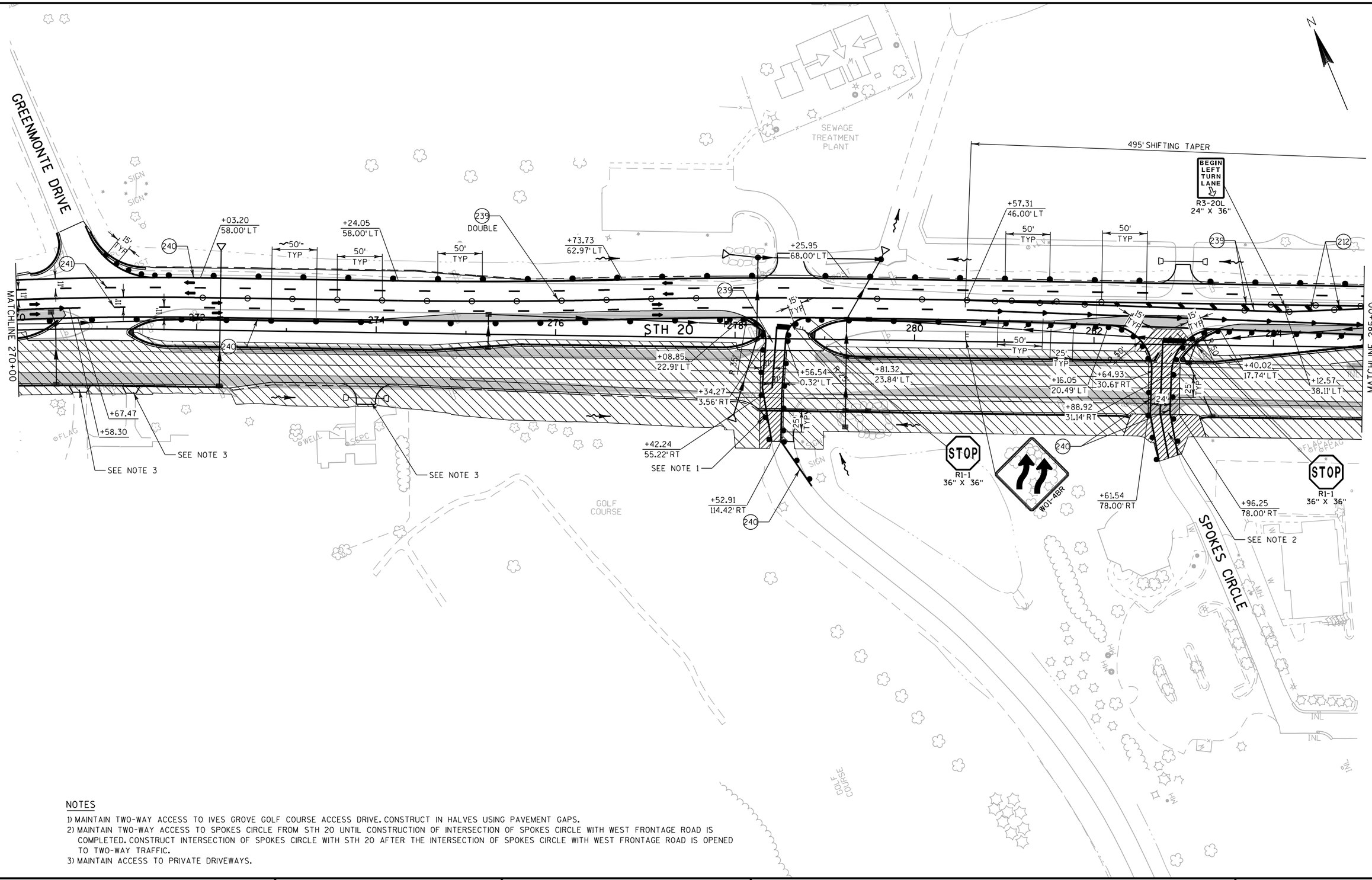


NOTE

1) MAINTAIN ACCESS TO PRIVATE DRIVEWAYS.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3A CONSTRUCTION	SHEET	E

2

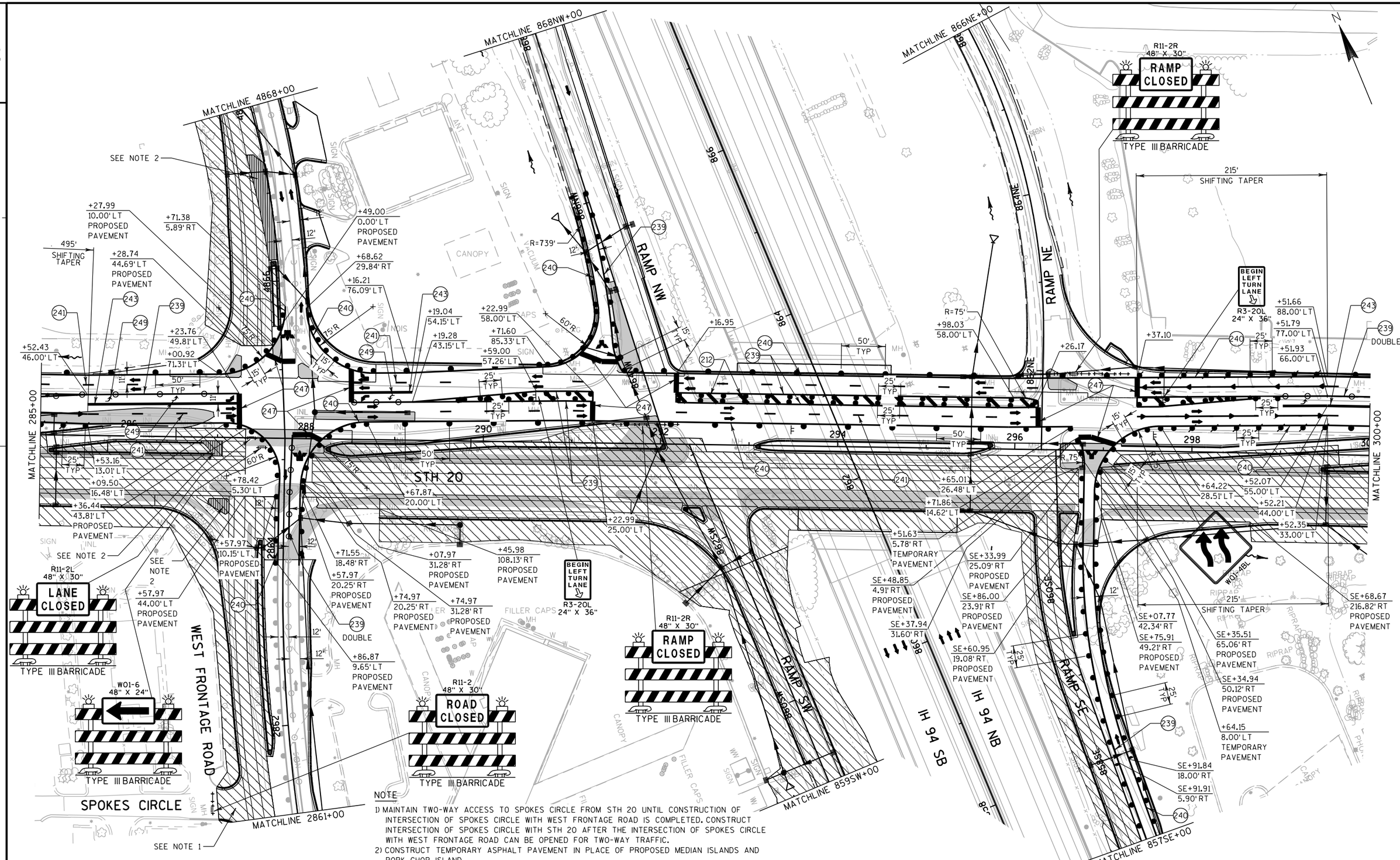


NOTES

1) MAINTAIN TWO-WAY ACCESS TO IVES GROVE GOLF COURSE ACCESS DRIVE. CONSTRUCT IN HALVES USING PAVEMENT GAPS.
2) MAINTAIN TWO-WAY ACCESS TO SPOKES CIRCLE FROM STH 20 UNTIL CONSTRUCTION OF INTERSECTION OF SPOKES CIRCLE WITH WEST FRONTAGE ROAD IS COMPLETED. CONSTRUCT INTERSECTION OF SPOKES CIRCLE WITH STH 20 AFTER THE INTERSECTION OF SPOKES CIRCLE WITH WEST FRONTAGE ROAD IS OPENED TO TWO-WAY TRAFFIC.
3) MAINTAIN ACCESS TO PRIVATE DRIVEWAYS.

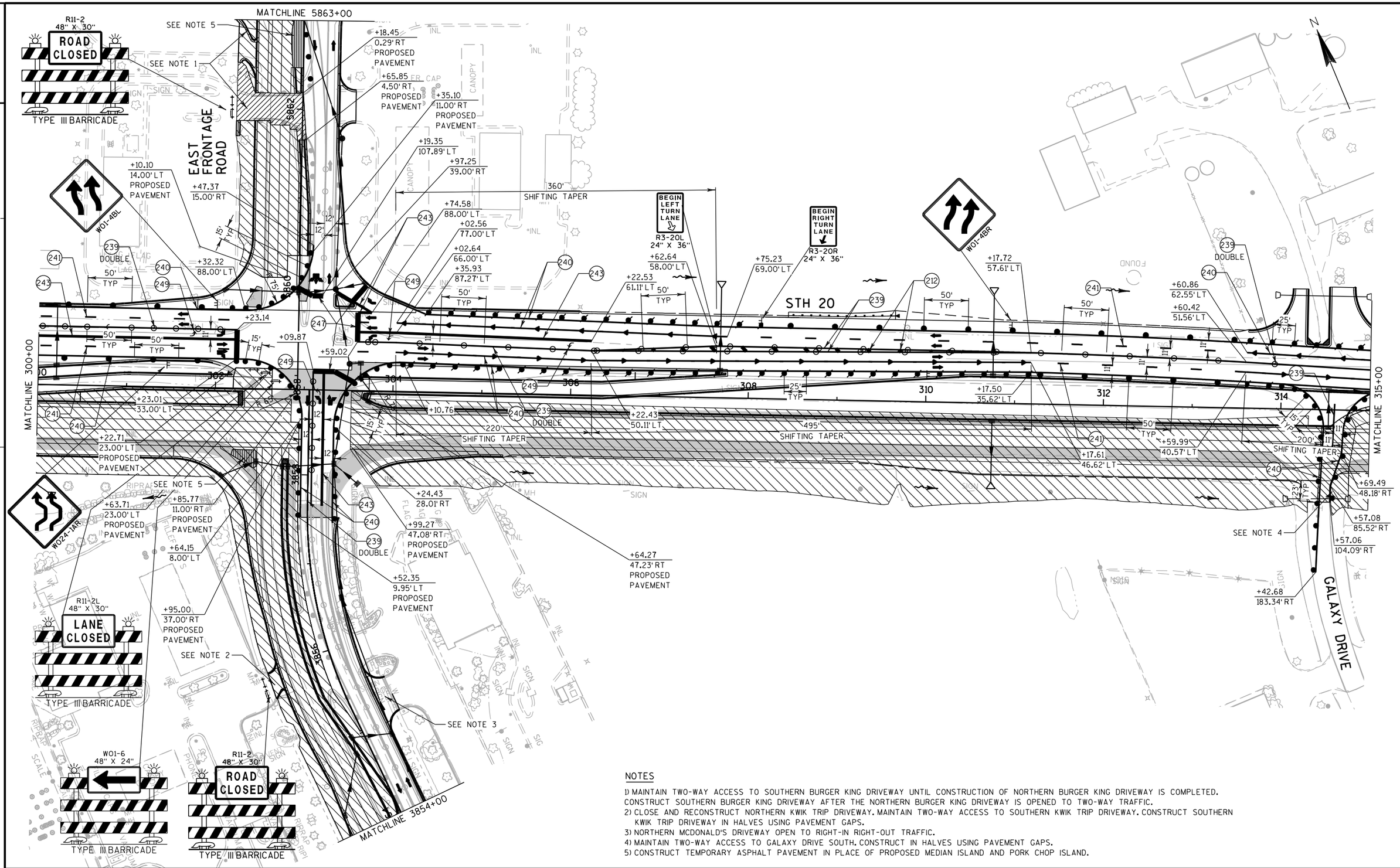
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3A CONSTRUCTION	SHEET	E

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3A CONSTRUCTION	SHEET	E

2

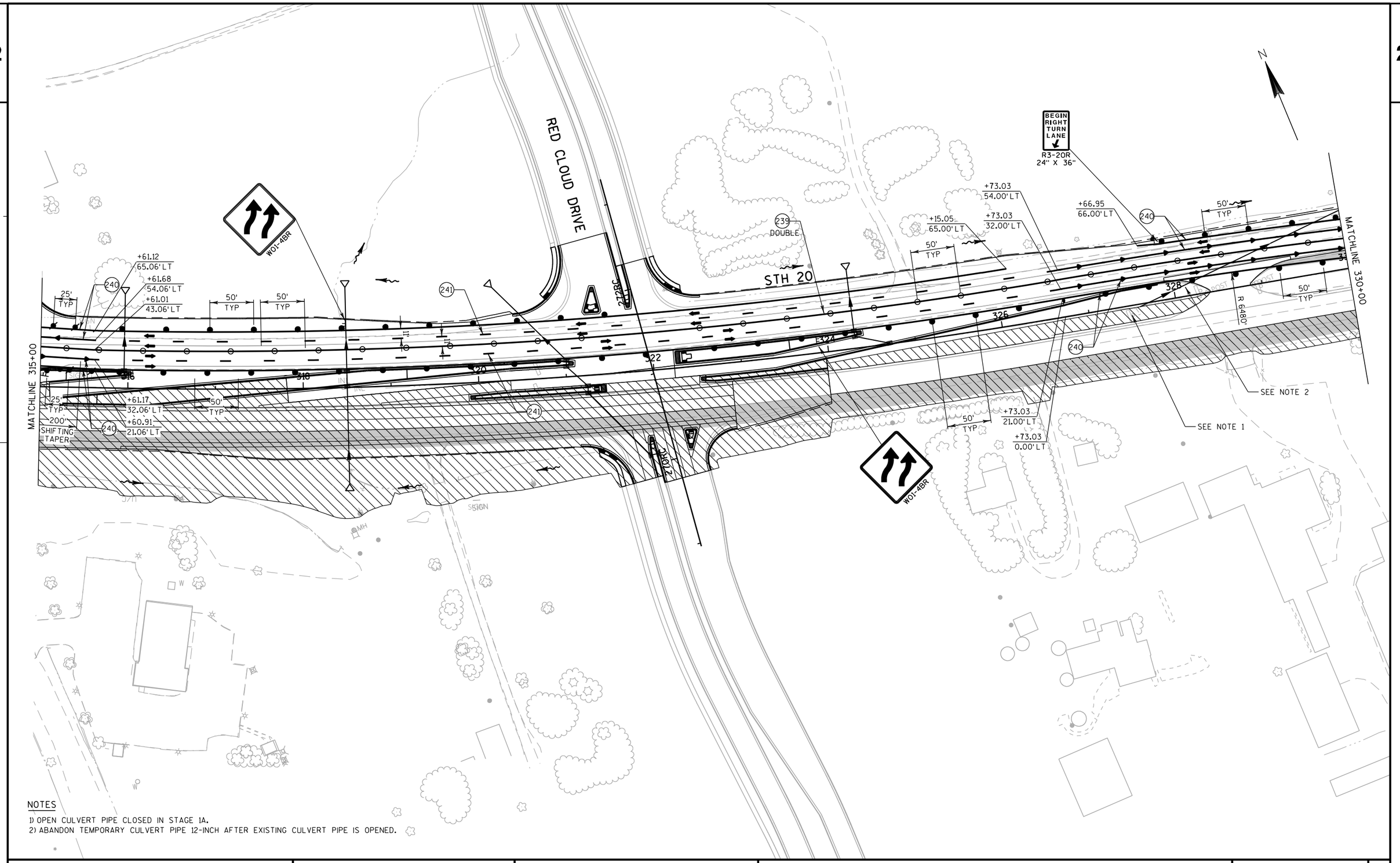


NOTES

1) MAINTAIN TWO-WAY ACCESS TO SOUTHERN BURGER KING DRIVEWAY UNTIL CONSTRUCTION OF NORTHERN BURGER KING DRIVEWAY IS COMPLETED. CONSTRUCT SOUTHERN BURGER KING DRIVEWAY AFTER THE NORTHERN BURGER KING DRIVEWAY IS OPENED TO TWO-WAY TRAFFIC.
2) CLOSE AND RECONSTRUCT NORTHERN KWIK TRIP DRIVEWAY. MAINTAIN TWO-WAY ACCESS TO SOUTHERN KWIK TRIP DRIVEWAY. CONSTRUCT SOUTHERN KWIK TRIP DRIVEWAY IN HALVES USING PAVEMENT GAPS.
3) NORTHERN MCDONALD'S DRIVEWAY OPEN TO RIGHT-IN RIGHT-OUT TRAFFIC.
4) MAINTAIN TWO-WAY ACCESS TO GALAXY DRIVE SOUTH. CONSTRUCT IN HALVES USING PAVEMENT GAPS.
5) CONSTRUCT TEMPORARY ASPHALT PAVEMENT IN PLACE OF PROPOSED MEDIAN ISLAND AND PORK CHOP ISLAND.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3A CONSTRUCTION	SHEET	E

2

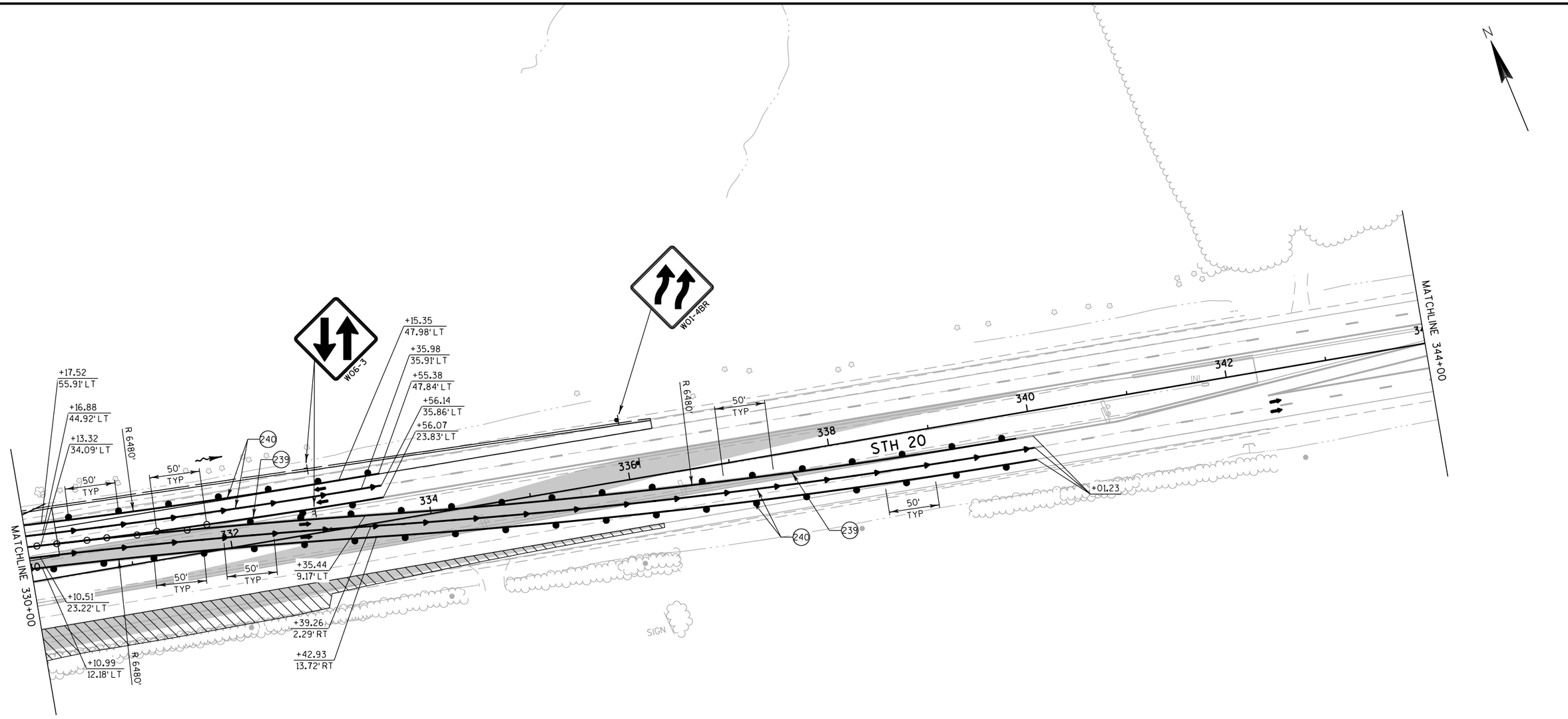


NOTES

1) OPEN CULVERT PIPE CLOSED IN STAGE 1A.
2) ABANDON TEMPORARY CULVERT PIPE 12-INCH AFTER EXISTING CULVERT PIPE IS OPENED.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3A CONSTRUCTION	SHEET	E

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3A CONSTRUCTION	SHEET	E

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2

MATCHLINE 2861+00

MATCHLINE 859SW+00

MATCHLINE 857SE+00

WEST FRONTAGE ROAD

RAMP SW

IH 94 SB

IH 94 NB

RAMP SE

SHIFTING TAPER 575'

SE+89.59

SE+13.81
0.00' LT

SE+12.99
15.00' LT

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACIRE	STAGE 3A CONSTRUCTION	SHEET	E

2

2

EAST FRONTAGE ROAD

WEST FRONTAGE ROAD

RAMP NE

RAMP NW

IH 94 SB

IH 94 NB

SHIFTING TAPER 500'

MATCHLINE 4868+00

MATCHLINE 868NW+00

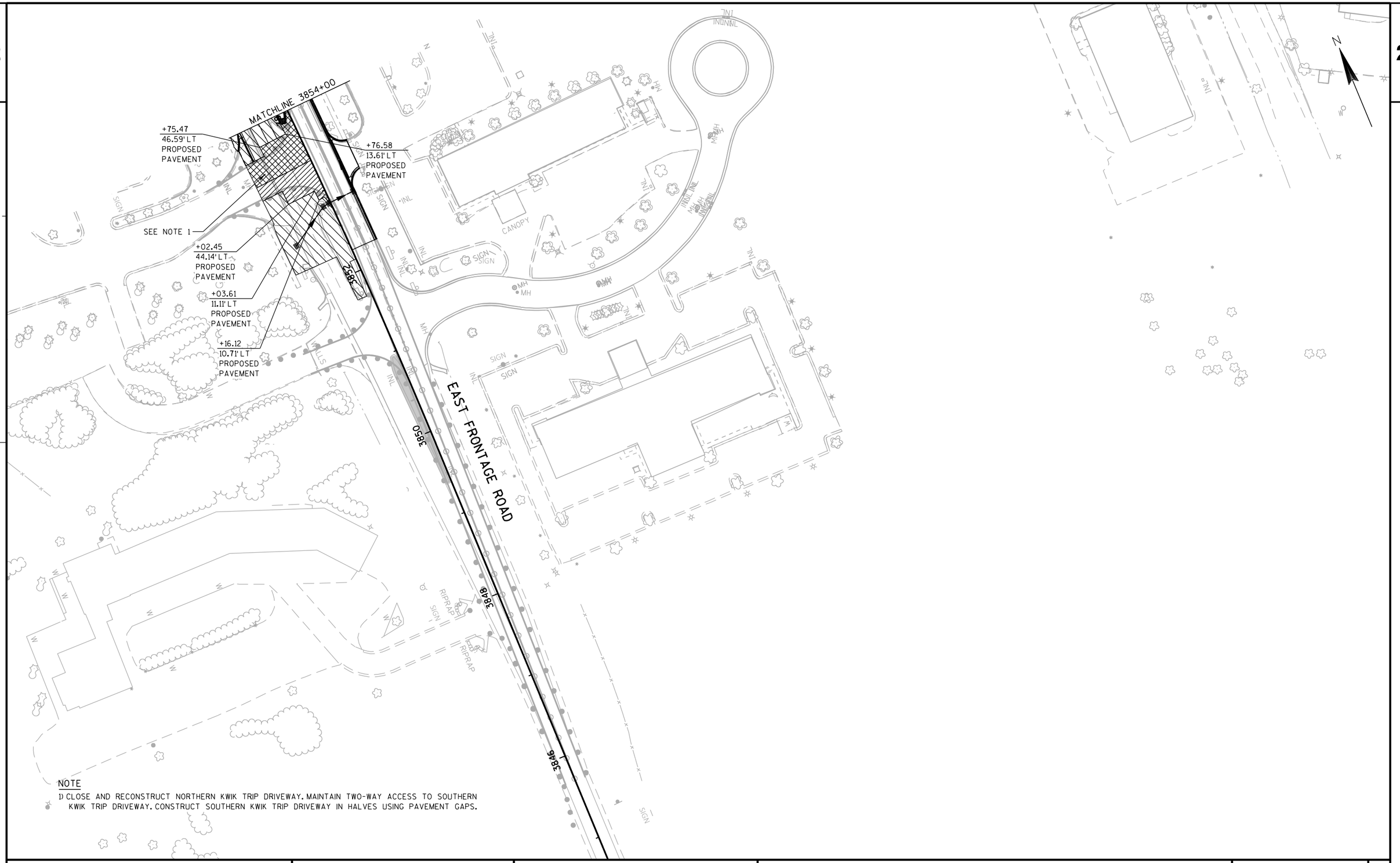
MATCHLINE 866NE+00

NW+50.99

NW+50.87

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3A CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026519_s3a.dgn PLOT DATE : 16-DEC-2019 09:25 PLOT BY : MSCNEG PLOT NAME : 026519_s3a PLOT SCALE : 100:1



NOTE

1) CLOSE AND RECONSTRUCT NORTHERN KWIK TRIP DRIVEWAY. MAINTAIN TWO-WAY ACCESS TO SOUTHERN KWIK TRIP DRIVEWAY. CONSTRUCT SOUTHERN KWIK TRIP DRIVEWAY IN HALVES USING PAVEMENT GAPS.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3A CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026520_s3a.dgn PLOT DATE : 16-DEC-2019 09:25 PLOT BY : MSCNEG PLOT NAME : 026520_s3a PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N

5870

5868

5866

5864

EAST FRONTAGE ROAD

KILBOURN DRIVE

MH

MH

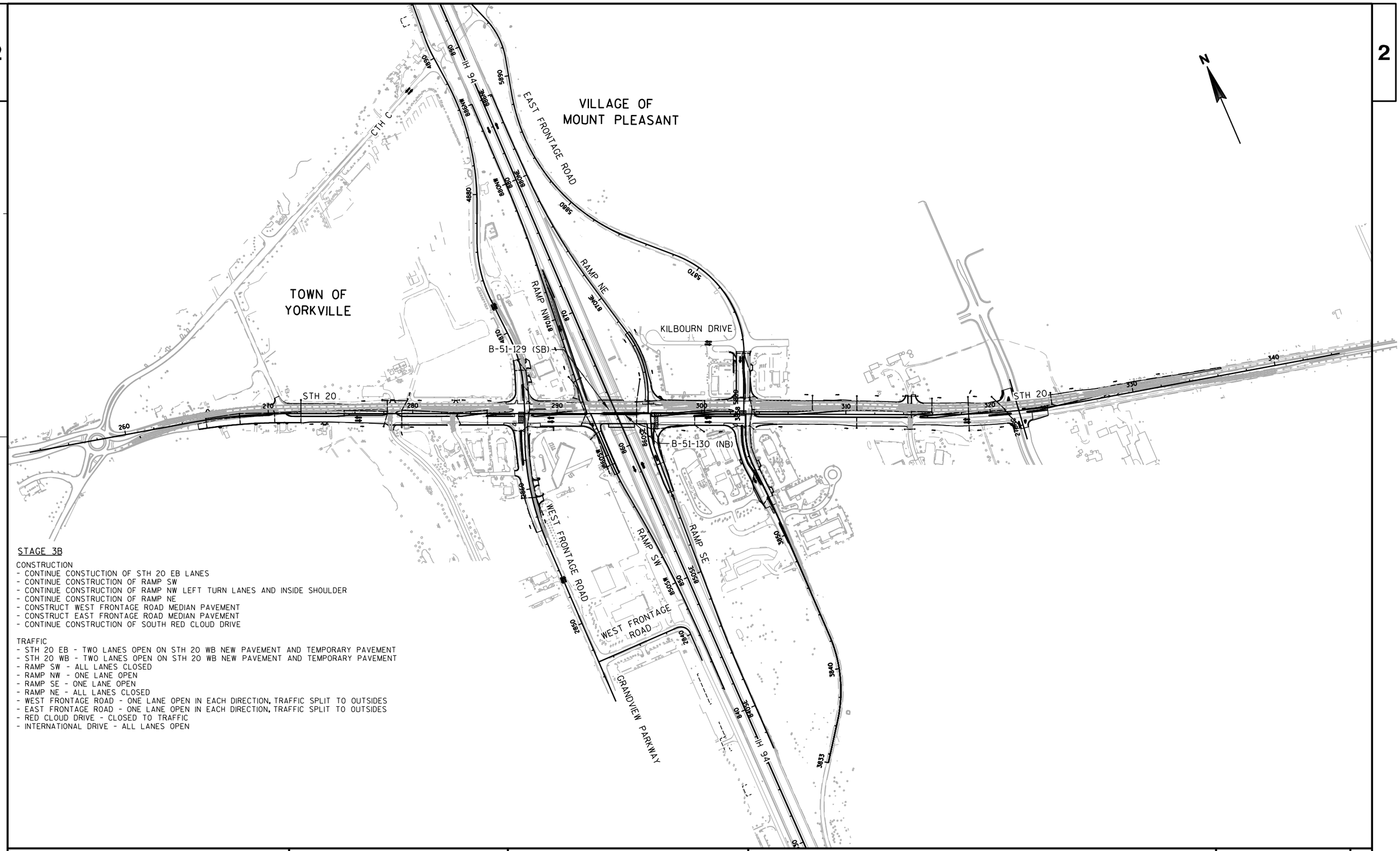
SIGN

MATCHLINE 5863+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3A CONSTRUCTION	SHEET	E

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2

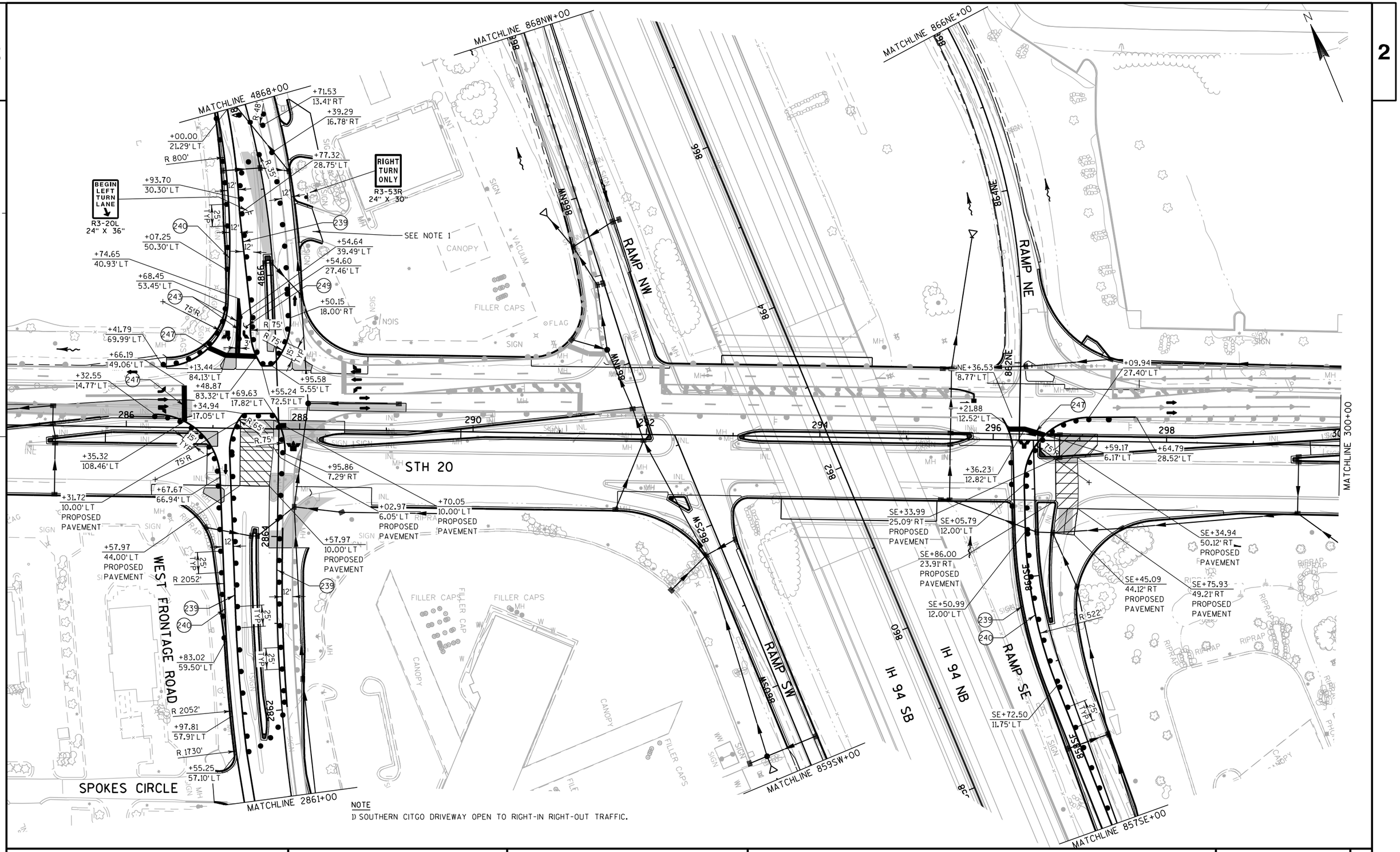


STAGE 3B

CONSTRUCTION
- CONTINUE CONSTUCTION OF STH 20 EB LANES
- CONTINUE CONSTRUCTION OF RAMP SW
- CONTINUE CONSTRUCTION OF RAMP NW LEFT TURN LANES AND INSIDE SHOULDER
- CONTINUE CONSTRUCTION OF RAMP NE
- CONSTRUCT WEST FRONTAGE ROAD MEDIAN PAVEMENT
- CONSTRUCT EAST FRONTAGE ROAD MEDIAN PAVEMENT
- CONTINUE CONSTRUCTION OF SOUTH RED CLOUD DRIVE

TRAFFIC
- STH 20 EB - TWO LANES OPEN ON STH 20 WB NEW PAVEMENT AND TEMPORARY PAVEMENT
- STH 20 WB - TWO LANES OPEN ON STH 20 WB NEW PAVEMENT AND TEMPORARY PAVEMENT
- RAMP SW - ALL LANES CLOSED
- RAMP NW - ONE LANE OPEN
- RAMP SE - ONE LANE OPEN
- RAMP NE - ALL LANES CLOSED
- WEST FRONTAGE ROAD - ONE LANE OPEN IN EACH DIRECTION, TRAFFIC SPLIT TO OUTSIDES
- EAST FRONTAGE ROAD - ONE LANE OPEN IN EACH DIRECTION, TRAFFIC SPLIT TO OUTSIDES
- RED CLOUD DRIVE - CLOSED TO TRAFFIC
- INTERNATIONAL DRIVE - ALL LANES OPEN

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE CONSTRUCTION: OVERVIEW - STAGE 3B	SHEET	E

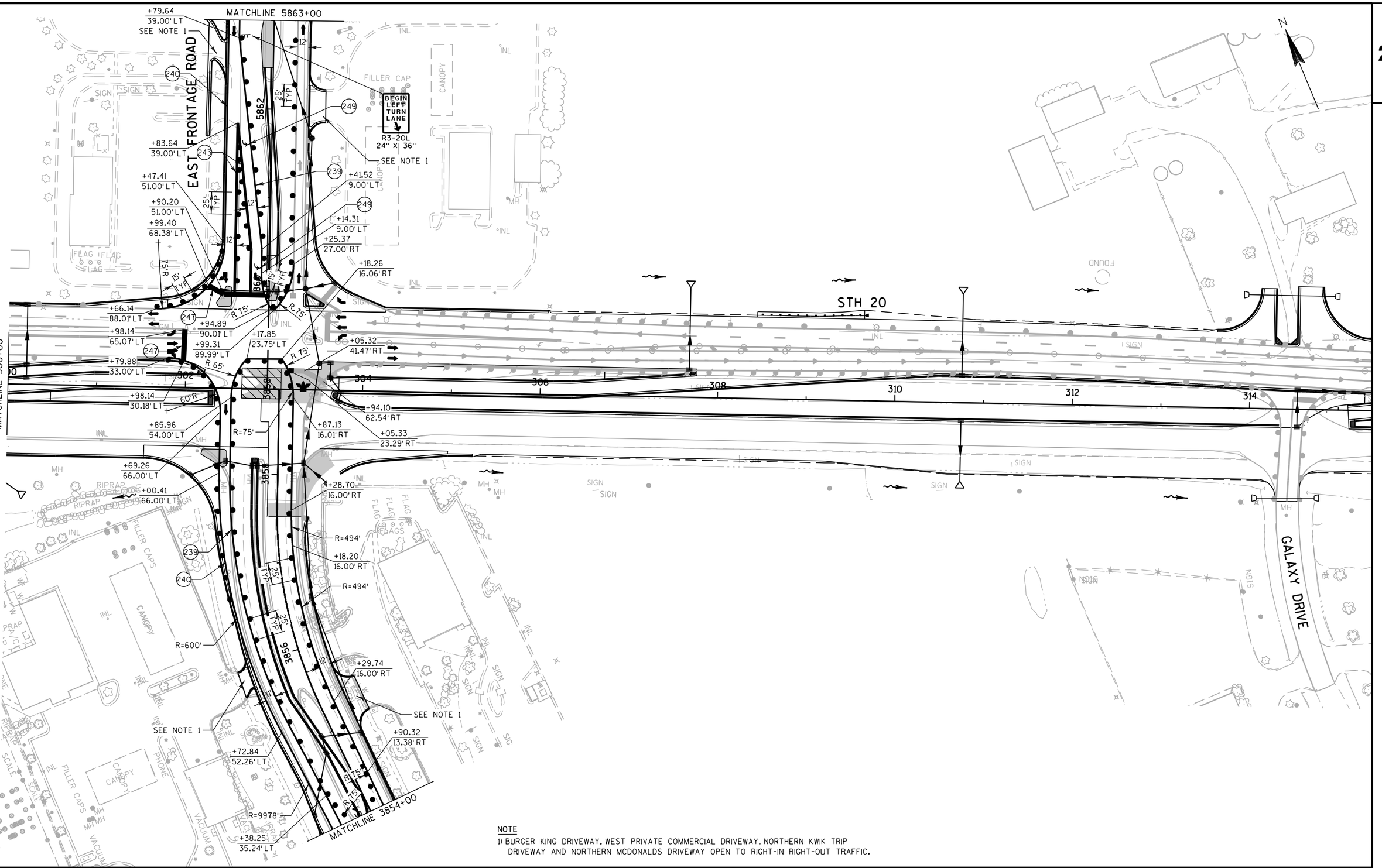


NOTE

1) SOUTHERN CITGO DRIVEWAY OPEN TO RIGHT-IN RIGHT-OUT TRAFFIC.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3B CONSTRUCTION	SHEET	E

2



NOTE

1) BURGER KING DRIVEWAY, WEST PRIVATE COMMERCIAL DRIVEWAY, NORTHERN KWIK TRIP DRIVEWAY AND NORTHERN MCDONALDS DRIVEWAY OPEN TO RIGHT-IN RIGHT-OUT TRAFFIC.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3B CONSTRUCTION	SHEET	E

2

MATCHLINE 2861+00

+59.03
53.79' LT

2860

12'

R=1729'

15' TYP

239

240

2858

12'

25' TYP

+64.03
37.62' LT

2856

WEST FRONTAGE ROAD

2854

2852

+90.22
20.44' LT

R11-2L
48" X 30"

LANE
CLOSED

TYPE III BARRICADE

MATCHLINE 859SW+00

859SW

RAMP SW

857SW

855SW

IH 94 SB

856

IH 94 NB

854

MATCHLINE 857SE+00

858SE

RAMP SE

856SE

852

852SW

850SW

850

850SE

848SE

N

RIPRAP

FILLER CAPS

SIGN

INL

MH

U/C

SCALE

FLAG

PAVE

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3B CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026618_s3b.dgn PLOT DATE : 13-DEC-2019 18:11 PLOT BY : mscd1s PLOT NAME : 026618_s3b PLOT SCALE : 100:1

2

N

EAST FRONTAGE ROAD

5876

5874

872

876NW

876

874NW

874

872NW

872

874NE

872NE

RAMP NE

870NE

868NE

MATCHLINE 866NE+00

IH 94 NB

870

868

IH 94 SB

RAMP NW

870NW

868NW

MATCHLINE 868NW+00

4876

4874

4872

WEST FRONTAGE ROAD

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

+11.31
8.00' LT

+11.31
20.00' LT

4870

239

240

12'

12'

25'

R 800'

BEGIN LEFT TURN LANE

R3-20L
24" X 36"

MATCHLINE 4868+00

SIGN

INL

MH

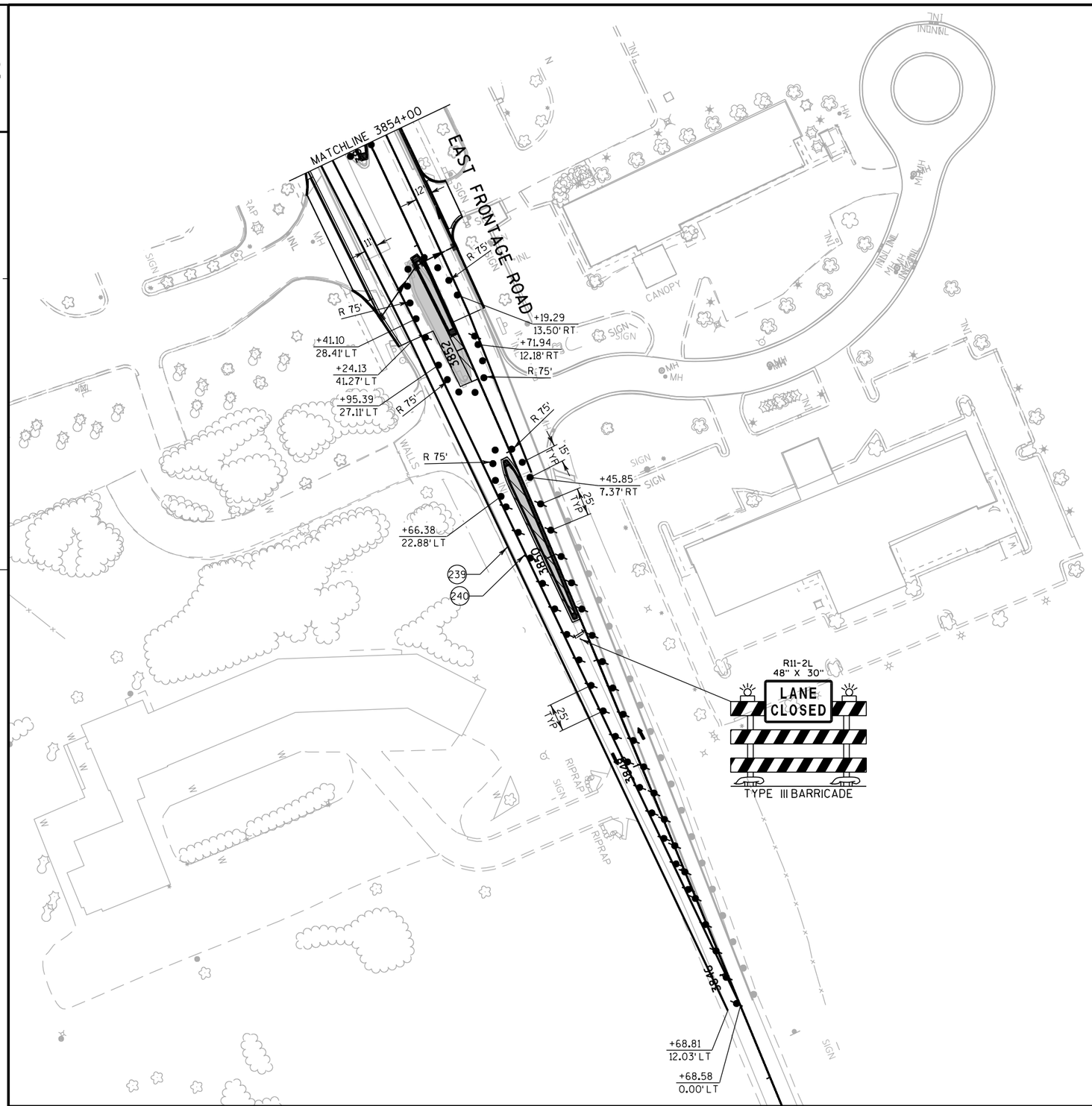
RIPRAP

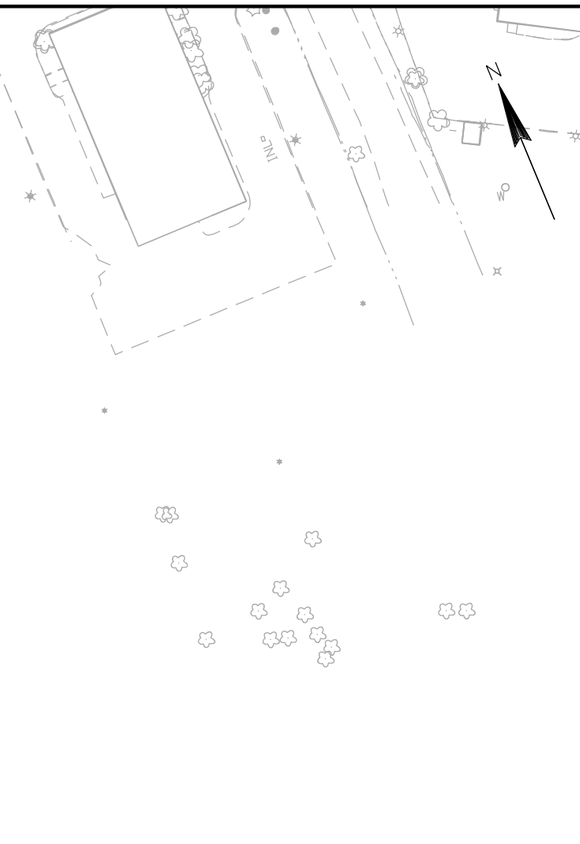
FILLER CAP

CANOPY

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3B CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026619_s3b.dgn PLOT DATE : 13-DEC-2019 18:11 PLOT BY : mscd1s PLOT NAME : 026619_s3b PLOT SCALE : 100:1





2

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3B CONSTRUCTION	SHEET	E

2

N

5870

+87.34
20.00' LT

R 684'

+82.40
19.22' LT

111

5868

239

240

R 600'

+58.39
6.55' LT

EAST FRONTAGE ROAD

+06.13
10.77' LT

+52.43
8.51' LT

242

R 612'

5866

+90.84
16.52' LT

R 777'

R 612'

+85.67
10.43' LT

243

+36.15
11.26' LT

+73.14
37.27' LT

+37.53
28.64' LT

5864

R11-2L
48" X 30"

LANE
CLOSED

TYPE III BARRICADE

KILBOURN DRIVE

+34.03
38.04' LT

+06.36
50.93' LT

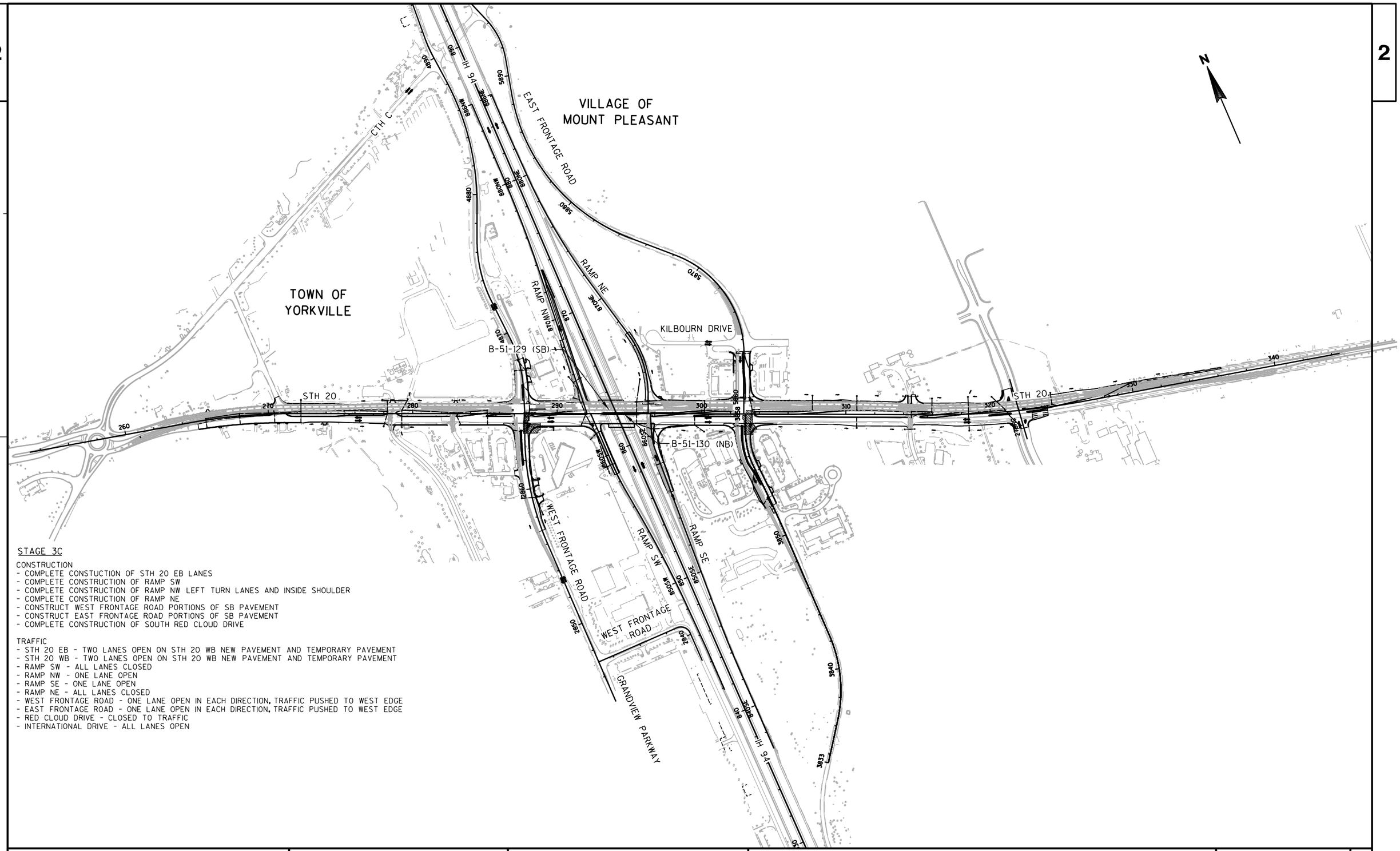
MH

SIGN

MATCHLINE 5863+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3B CONSTRUCTION	SHEET	E

2



STAGE 3C

CONSTRUCTION
- COMPLETE CONSTUCTION OF STH 20 EB LANES
- COMPLETE CONSTRUCTION OF RAMP SW
- COMPLETE CONSTRUCTION OF RAMP NW LEFT TURN LANES AND INSIDE SHOULDER
- COMPLETE CONSTRUCTION OF RAMP NE
- CONSTRUCT WEST FRONTAGE ROAD PORTIONS OF SB PAVEMENT
- CONSTRUCT EAST FRONTAGE ROAD PORTIONS OF SB PAVEMENT
- COMPLETE CONSTRUCTION OF SOUTH RED CLOUD DRIVE

TRAFFIC
- STH 20 EB - TWO LANES OPEN ON STH 20 WB NEW PAVEMENT AND TEMPORARY PAVEMENT
- STH 20 WB - TWO LANES OPEN ON STH 20 WB NEW PAVEMENT AND TEMPORARY PAVEMENT
- RAMP SW - ALL LANES CLOSED
- RAMP NW - ONE LANE OPEN
- RAMP SE - ONE LANE OPEN
- RAMP NE - ALL LANES CLOSED
- WEST FRONTAGE ROAD - ONE LANE OPEN IN EACH DIRECTION, TRAFFIC PUSHED TO WEST EDGE
- EAST FRONTAGE ROAD - ONE LANE OPEN IN EACH DIRECTION, TRAFFIC PUSHED TO WEST EDGE
- RED CLOUD DRIVE - CLOSED TO TRAFFIC
- INTERNATIONAL DRIVE - ALL LANES OPEN

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE CONSTRUCTION: OVERVIEW - STAGE 3C	SHEET	E

2

MATCHLINE 4868+00

MATCHLINE 868NW+00

MATCHLINE 866NE+00

MATCHLINE 300+00

MATCHLINE 2861+00

MATCHLINE 859SW+00

MATCHLINE 857SE+00

+64.23
29.37' RT

+63.41
69.76' RT

+30.17
7.14' RT

+22.10
10.74' LT

+31.10
69.65' RT

+15.26
11.33' LT

+70.01
51.82' RT

R=824'

+46.03
29.91' RT

+13.89
25.55' LT

+33.36
60.12' RT

+74.93
28.87' LT

+99.22
18.60' RT

+94.10
43.68' RT

+17.99
4.67' LT

+41.11
5.18' LT

+61.88
17.48' RT

+96.33
18.41' LT

+81.75
55.66' LT

DOUBLE

+67.85
20.00' LT

+53.42
0.94' LT

+51.94
10.00' LT
PROPOSED
PAVEMENT

+70.05
10.00' LT
PROPOSED
PAVEMENT

+02.56
6.05' LT
PROPOSED
PAVEMENT

+74.00
43.24' LT

+57.97
10.00' LT
PROPOSED
PAVEMENT

+86.87
9.93' LT
PROPOSED
PAVEMENT

+85.92
35.55' LT

+98.21
33.91' LT

+56.17
33.11' LT

R11-2L
48" X 30"

LANE
CLOSED

TYPE III BARRICADE

W01-6
48" X 24"

TYPE III BARRICADE

STH 20

WEST FRONTAGE ROAD

SPOKES CIRCLE

RAMP NW

RAMP SW

RAMP NE

RAMP SE

IH 94 SB

IH 94 NB

FILLER CAPS

CANOPY

RIPRAP

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3C CONSTRUCTION	SHEET	E

2

MATCHLINE 5863+00

EAST FRONTAGE ROAD

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

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

W01-6
48" X 24"
TYPE III BARRICADE

W01-4R

5862

5863

5864

R 1000'

75'R

25' TYP

12'

239 +00.00 27.00' LT

240 +47.32 27.00' LT

241 +40.32 88.00' LT

243

239 +59.02 66.00' LT

+59.02 55.00' LT

+74.12 31.66' RT

247 +83.85 10.21' LT

+40.67 34.37' LT

+10.68 32.81' LT

+90.20 39.00' LT

+51.87 22.43' LT

MATCHLINE 300+00

302

304

306

308

310

312

314

STH 20

GALAXY DRIVE

+63.95 20.80' LT

+39.32 31.64' RT

3858

3859

3860

+59.31 42.00' LT

+59.01 11.00' LT PROPOSED PAVEMENT

+03.42 42.00' LT

+52.25 11.00' LT PROPOSED PAVEMENT

+54.37 2.06' RT PROPOSED PAVEMENT

+07.97 23.00' LT PROPOSED PAVEMENT

+53.15 23.00' LT PROPOSED PAVEMENT

+85.03 20.17' LT PROPOSED PAVEMENT

R 588'

+71.53 30.00' LT

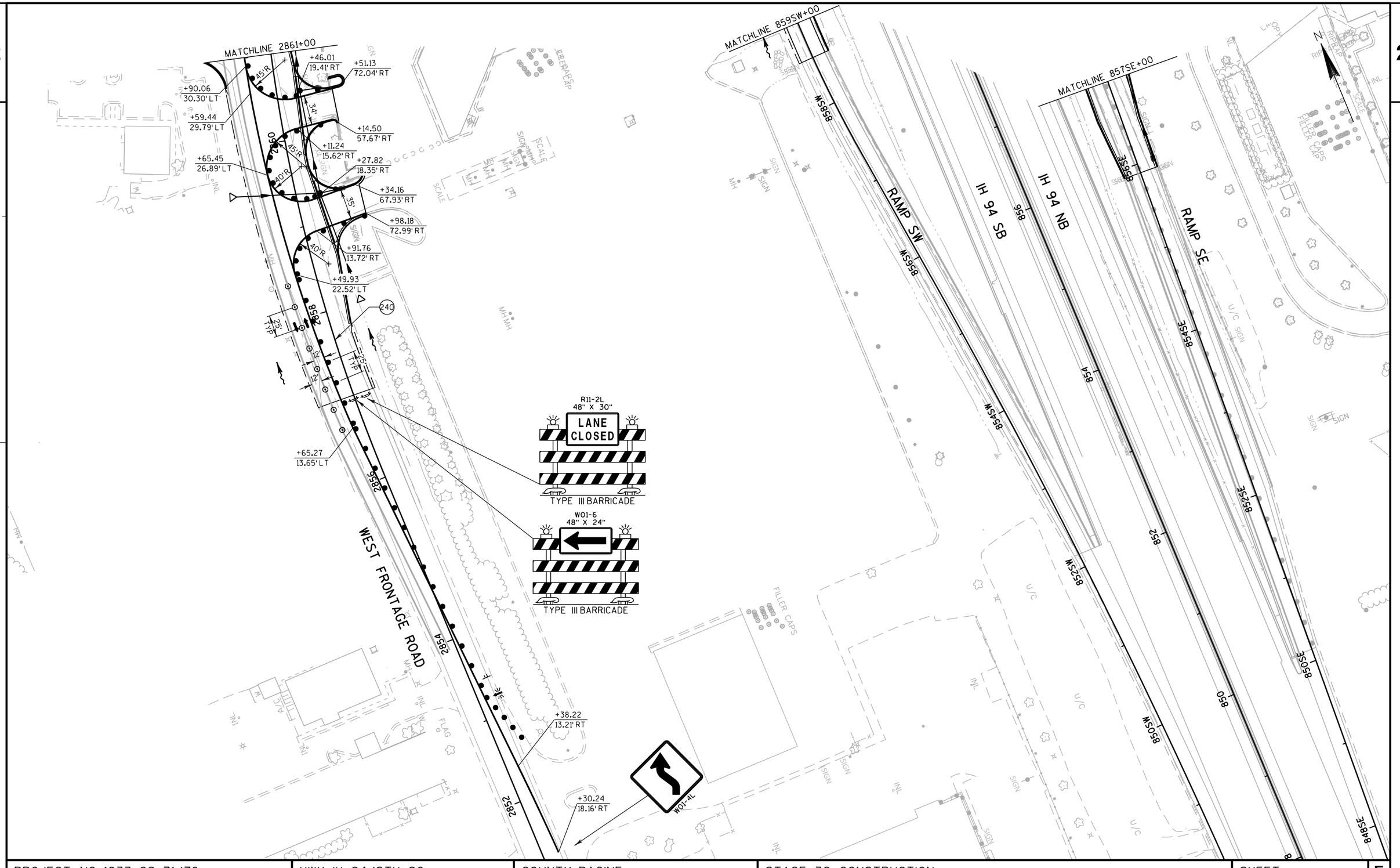
R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

MATCHLINE 3854+00

N

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3C CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026714_s3c.dgn PLOT DATE : 13-DEC-2019 17:58 PLOT BY : mscd1s PLOT NAME : 026714_s3c PLOT SCALE : 100:1



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3C CONSTRUCTION	SHEET	E

2

2

EAST FRONTAGE ROAD

RAMP NE

IH 94 NB

IH 94 SB

RAMP NW

WEST FRONTAGE ROAD

+44.01
20.00' LT

+66.83
20.00' RT

R=800'

+48.34
3.59' LT

+04.81
8.85' LT

MATCHLINE 4868+00

MATCHLINE 868NW+00

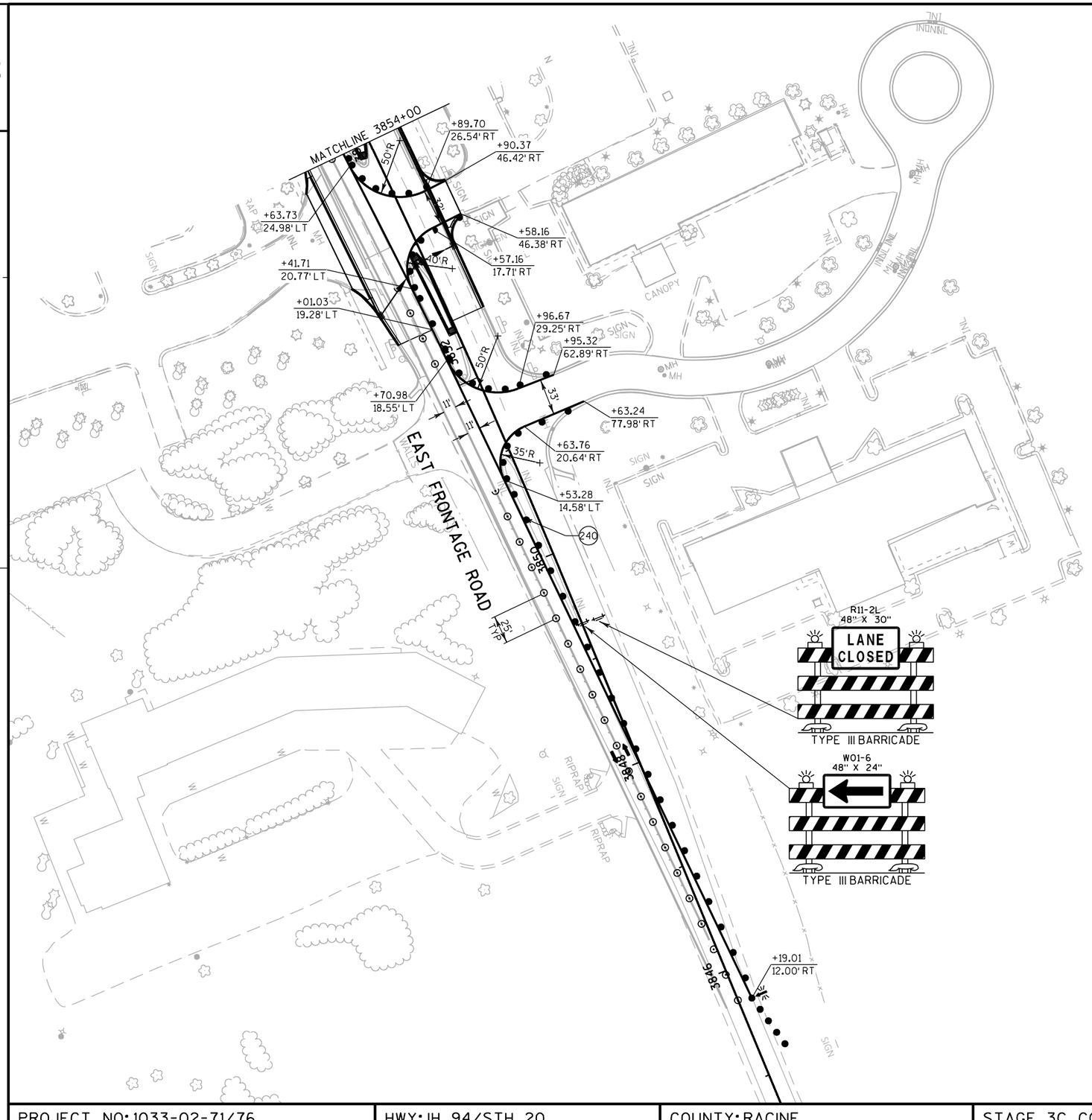
MATCHLINE 866NE+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACIQUE	STAGE 3C CONSTRUCTION	SHEET	E

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WISDOT/CADDS SHEET 42

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3C CONSTRUCTION	SHEET	E

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2

N

EAST FRONTAGE ROAD

5870

8985

+50.00
20.00' RT

239

240

+06.13
10.77' LT

11'

12'

R 650'

5885

+46.92
30.75' RT

R 400'

+36.49
28.74' LT

+16.79
19.80' RT

5864

+18.71
7.87' RT

113

+28.92
12.15' LT

KILBOURN DRIVE

MH

MH

239

+26.90
0.25' LT

240

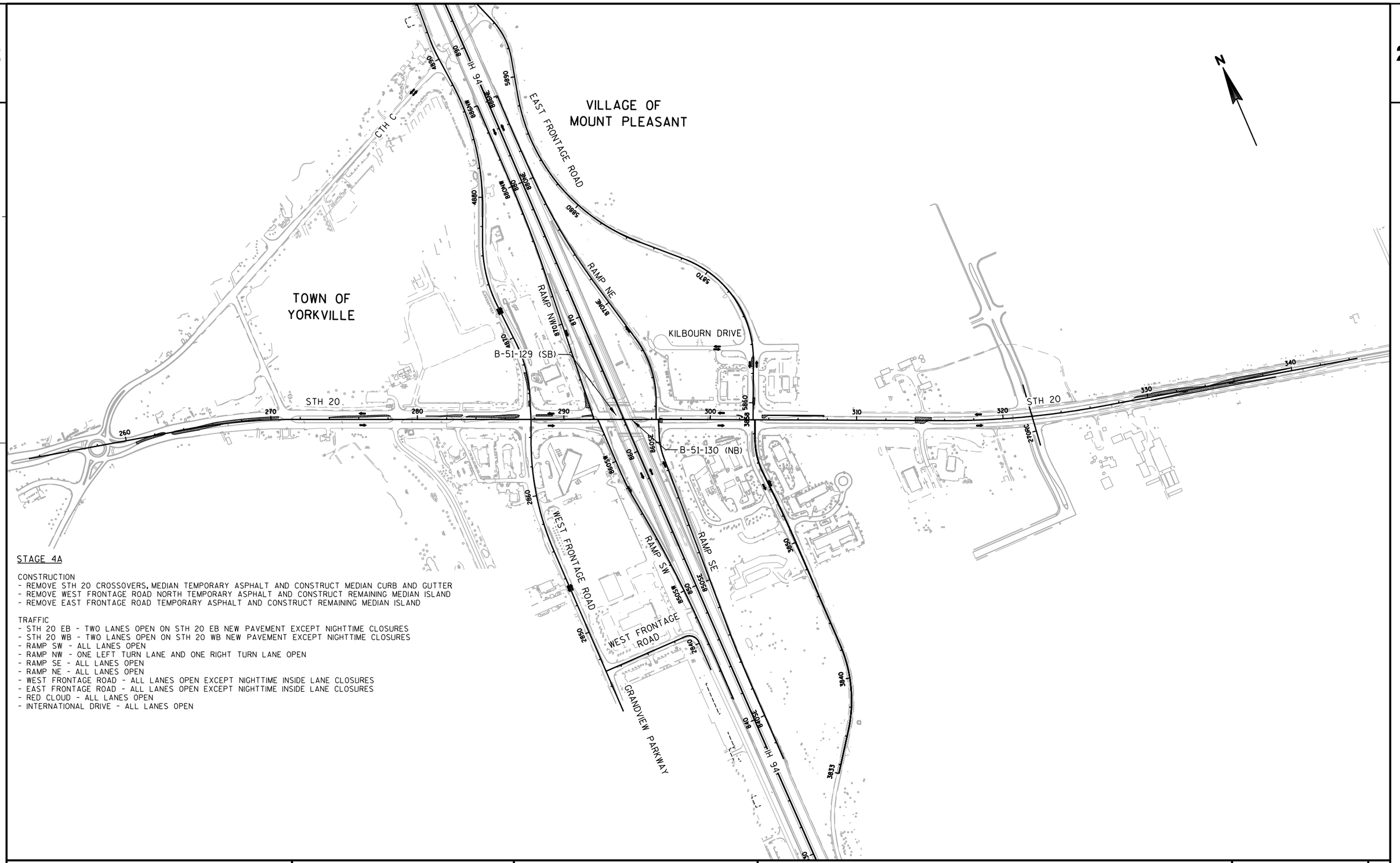
SIGN

MATCHLINE 5863+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 3C CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026721_s3c.dgn PLOT DATE : 13-DEC-2019 17:58 PLOT BY : mscd1s PLOT NAME : 026721_s3c PLOT SCALE : 100:1

2



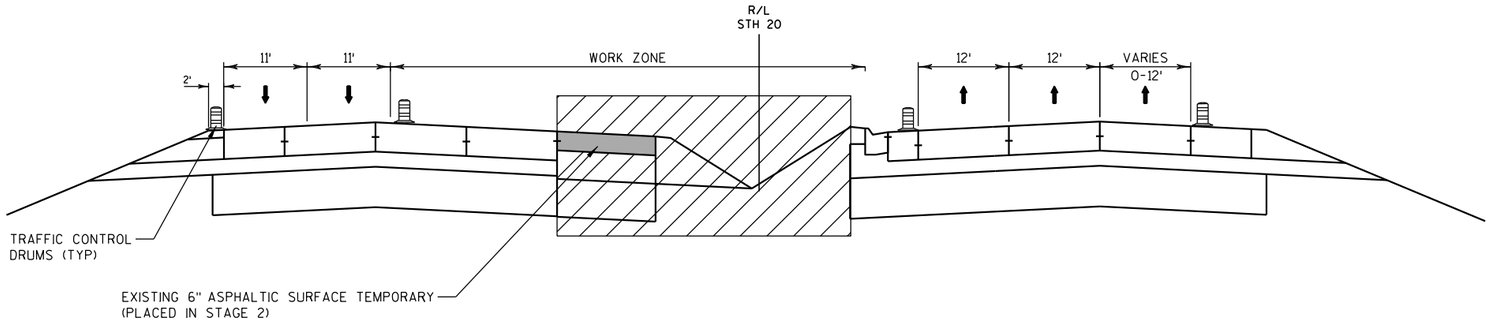
STAGE 4A

CONSTRUCTION
- REMOVE STH 20 CROSSOVERS, MEDIAN TEMPORARY ASPHALT AND CONSTRUCT MEDIAN CURB AND GUTTER
- REMOVE WEST FRONTAGE ROAD NORTH TEMPORARY ASPHALT AND CONSTRUCT REMAINING MEDIAN ISLAND
- REMOVE EAST FRONTAGE ROAD TEMPORARY ASPHALT AND CONSTRUCT REMAINING MEDIAN ISLAND

TRAFFIC
- STH 20 EB - TWO LANES OPEN ON STH 20 EB NEW PAVEMENT EXCEPT NIGHTTIME CLOSURES
- STH 20 WB - TWO LANES OPEN ON STH 20 WB NEW PAVEMENT EXCEPT NIGHTTIME CLOSURES
- RAMP SW - ALL LANES OPEN
- RAMP NW - ONE LEFT TURN LANE AND ONE RIGHT TURN LANE OPEN
- RAMP SE - ALL LANES OPEN
- RAMP NE - ALL LANES OPEN
- WEST FRONTAGE ROAD - ALL LANES OPEN EXCEPT NIGHTTIME INSIDE LANE CLOSURES
- EAST FRONTAGE ROAD - ALL LANES OPEN EXCEPT NIGHTTIME INSIDE LANE CLOSURES
- RED CLOUD - ALL LANES OPEN
- INTERNATIONAL DRIVE - ALL LANES OPEN

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE CONSTRUCTION: OVERVIEW - STAGE 4A	SHEET	E

2



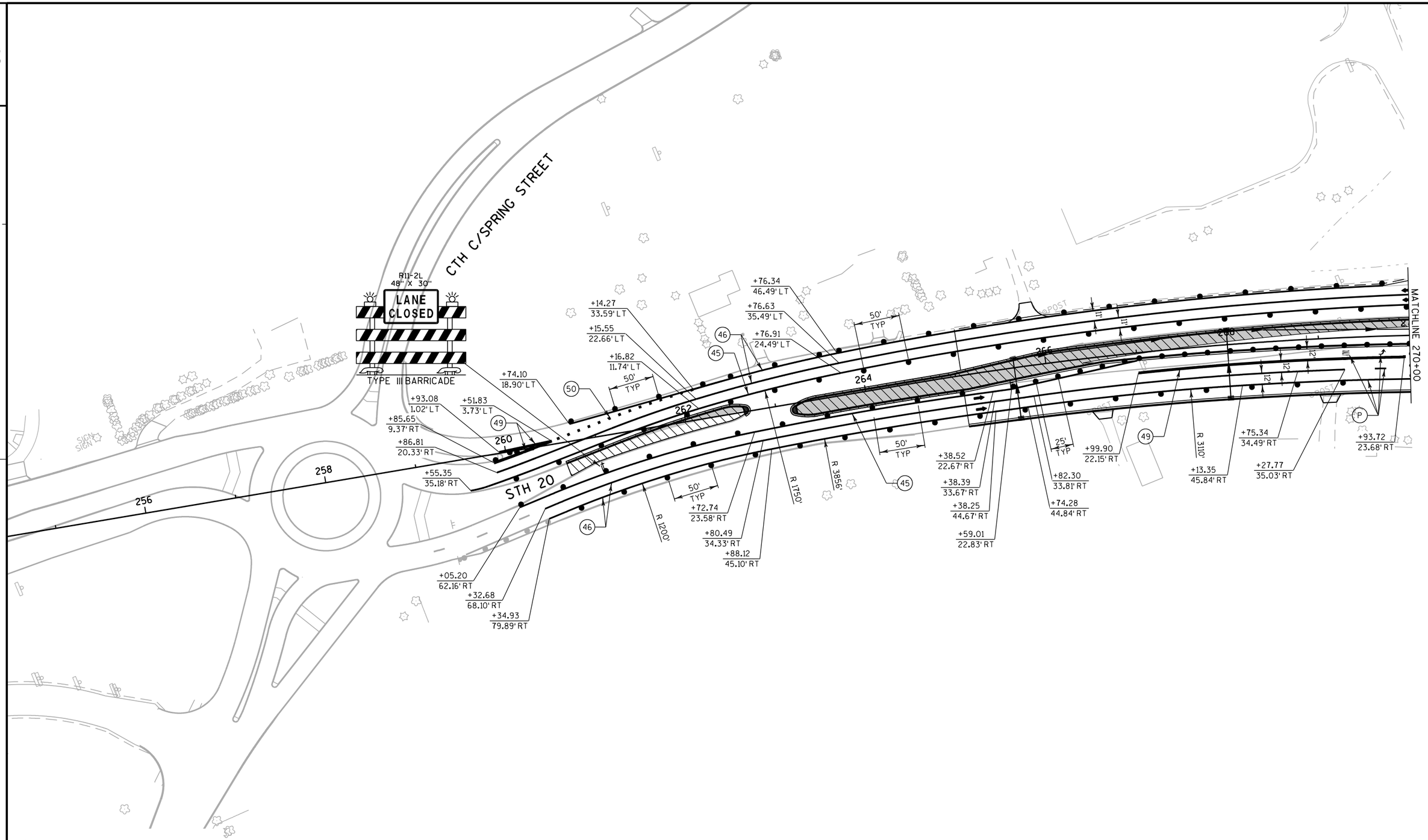
STAGE 4A TYPICAL SECTION

STH 20
LOOKING EAST

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE CONSTRUCTION: TYPICAL SECTIONS - STAGE 4A	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026801_s4a.dgn PLOT DATE : 13-DEC-2019 17:36 PLOT BY : mscd1s PLOT NAME : 026801_s4a PLOT SCALE : 20:1
WISDOT/CADDS SHEET 42

2



NOTE

UTILIZE SINGLE LANE OFF PEAK 9AM - 3PM CLOSURES AS DIRECTED BY THE ENGINEER TO RESTORE CROSSOVER AREAS

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 4A CONSTRUCTION	SHEET	E

2

GREENMONTE DRIVE

MATCHLINE 270+00

MATCHLINE 285+00

STH 20

SPOKES CIRCLE

GOLF COURSE

+33.52
45.08' LT

+33.48
34.08' LT

+43.29
35.54' LT

+43.35
25.54' LT

+83.78
25.95' LT

+84.31
13.95' LT

+82.31
58.00' LT

+03.56
36.00' LT

+47.63
36.04' LT

+79.93
59.94' LT

+77.15
44.25' LT

+20.41
49.00' RT

+14.27
49.00' RT

+97.30
49.00' RT

+25.95
46.00' LT

+29.38
34.96' LT

+30.26
24.00' LT

+67.32
46.00' LT

+05.26
46.00' LT

+94.04
49.00' RT

+30.13
49.00' RT

+30.04
66.00' RT

+29.30
78.00' RT

+29.52
49.00' RT

BEGIN RIGHT TURN LANE
R3-20R
24" X 36"

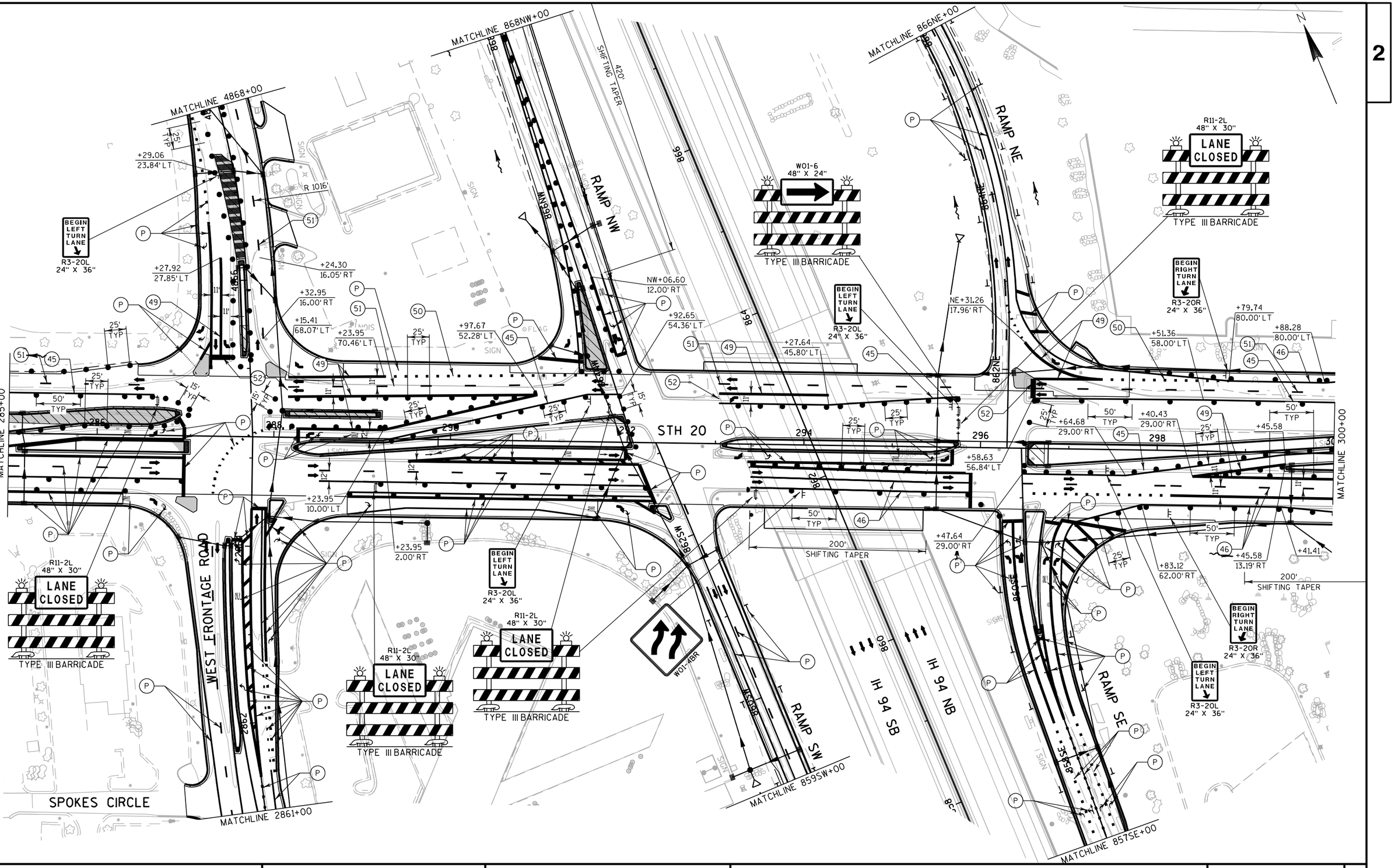
BEGIN LEFT TURN LANE
R3-20L
24" X 36"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

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

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 4A CONSTRUCTION	SHEET	E

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 4A CONSTRUCTION	SHEET	E

2

MATCHLINE 5863+00

EAST FRONTAGE ROAD

5862

5858

WO1-6
48" X 24"
TYPE III BARRICADE

+78.28

+22.11
13.00' RT

+34.21

+78.35
104.97' LT

+89.36
22.00' RT

+17.65
92.00' LT

BEGIN RIGHT TURN LANE
R3-20R
24" X 36"

+67.65
80.00' LT

+61.70
79.07' LT

+12.15
87.37' LT

+61.19
62.54' LT

+84.31

+39.07

+44.31
47.00' LT

+39.23
48.01' LT

25' TYP

50' TYP

15' TYP

MATCHLINE 300+00

MATCHLINE 315+00

302

304

306

308

310

312

314

STH 20

+77.54
51.00' RT

+18.99
74.93' RT

200'
SHIFTING TAPER

+54.41
78.00' RT

+77.05
51.00' RT

+73.11
51.00' RT

+60.61
66.00' RT

+10.53
51.00' RT

+84.69
51.00' RT

R 8022'

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

GALAXY DRIVE

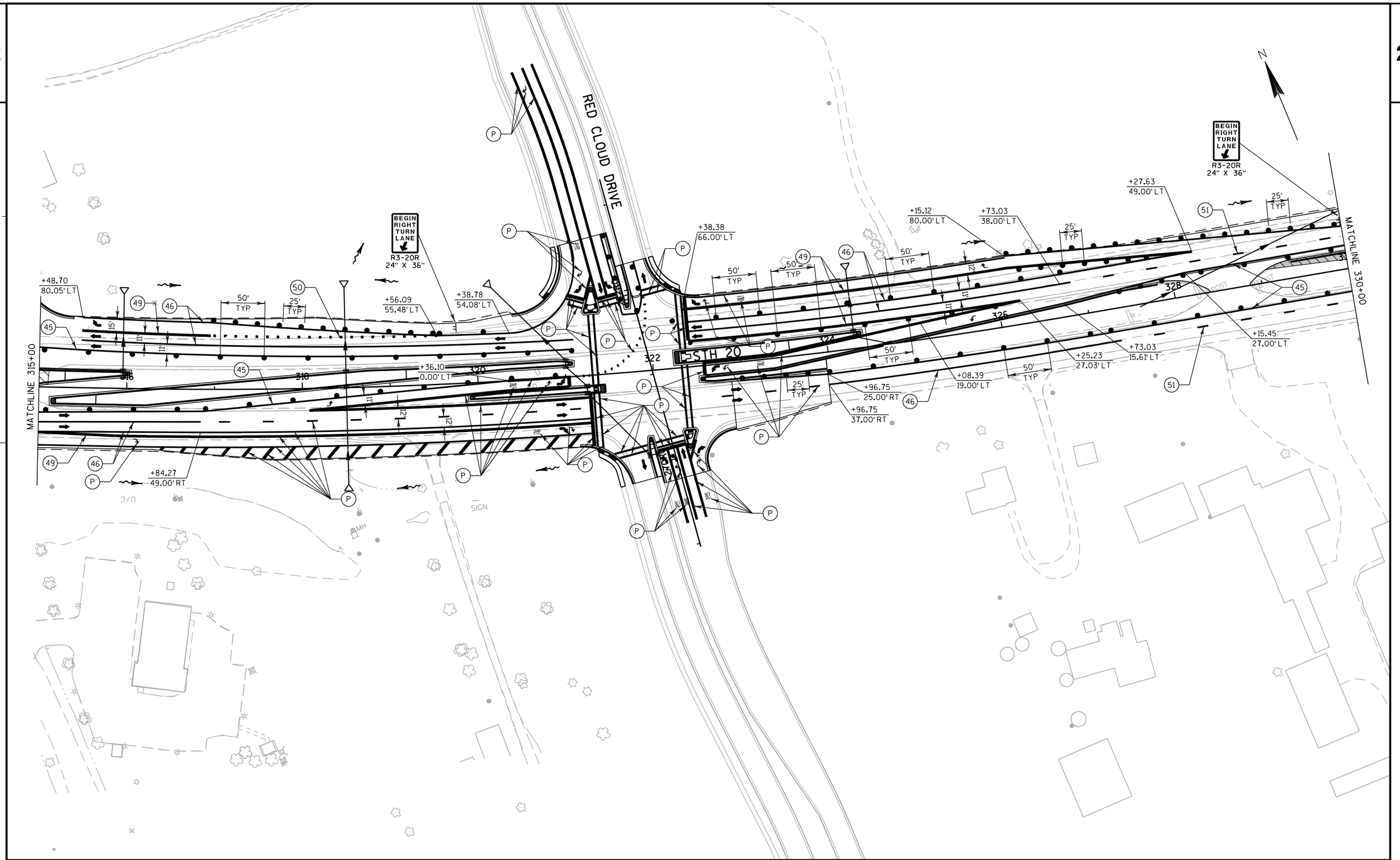
SIGN

MATCHLINE 3854+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 4A CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026814_s4a.dgn PLOT DATE : 13-DEC-2019 17:37 PLOT BY : mscd1s PLOT NAME : 026814_s4a PLOT SCALE : 100:1

2

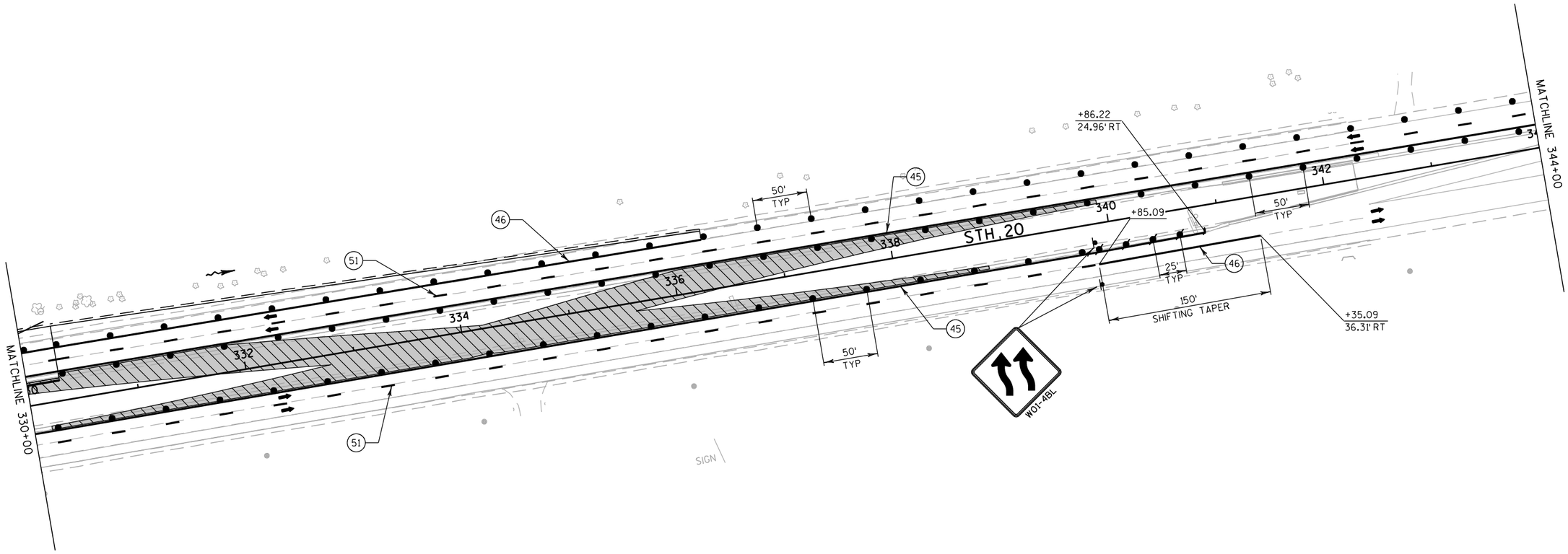


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 4A CONSTRUCTION	SHEET	E

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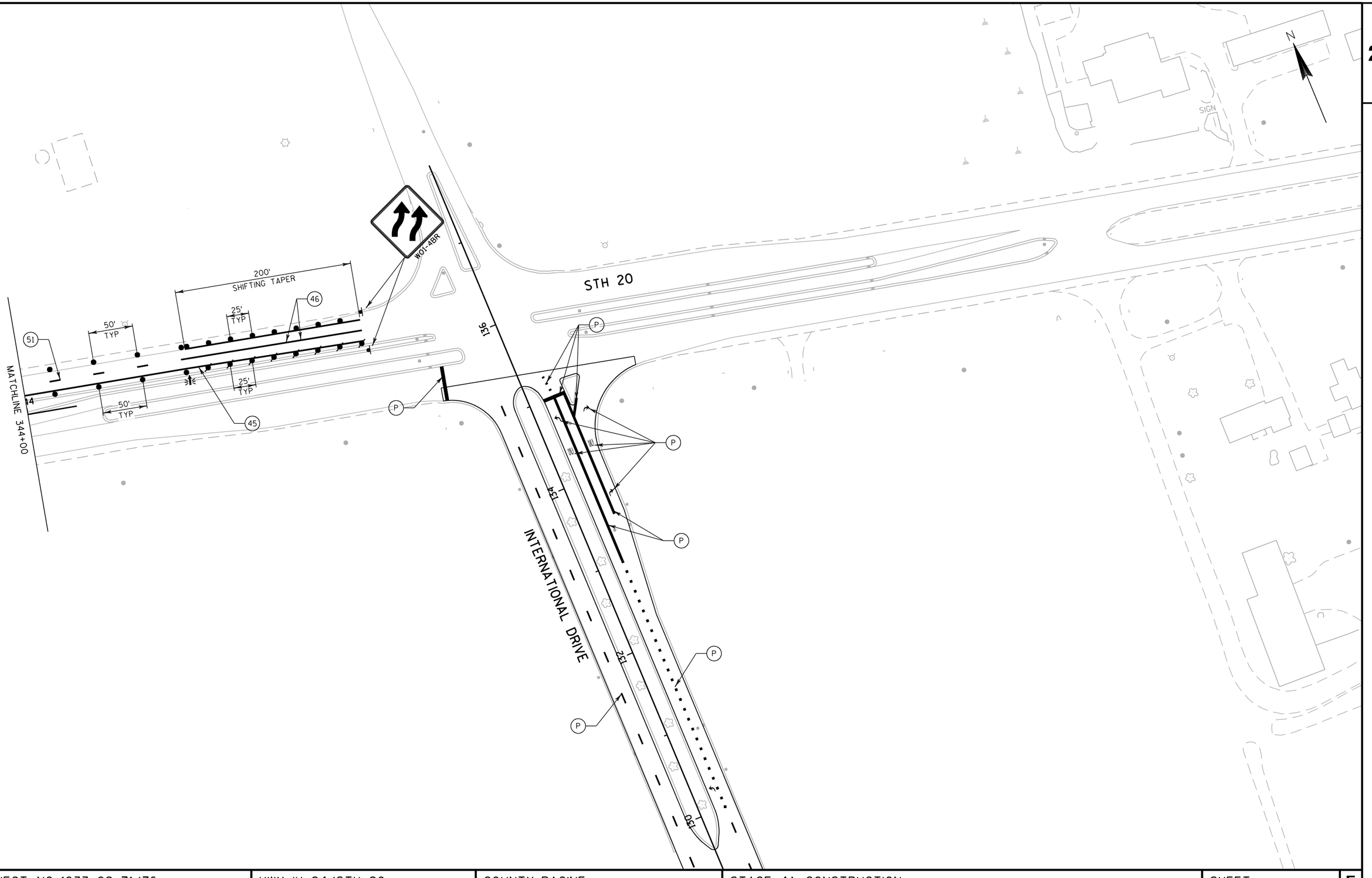
WISDOT/CADDS SHEET 42

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 4A CONSTRUCTION	SHEET	E

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 4A CONSTRUCTION	SHEET	E

2

2

WEST FRONTAGE ROAD

4876

4874

4872

4870

+44.30
20.00'LT

46

P

+24.79
30.77'LT

P

MATCHLINE 4868+00

876NW

876

874NW

874

872NW

872

RAMP NW

870NW

IH 94 SB

870

IH 94 NB

868

MATCHLINE 868NW+00

874NE

872NE

RAMP NE

870NE

868NE

5876

5874

EAST FRONTAGE ROAD

MATCHLINE 866NE+00

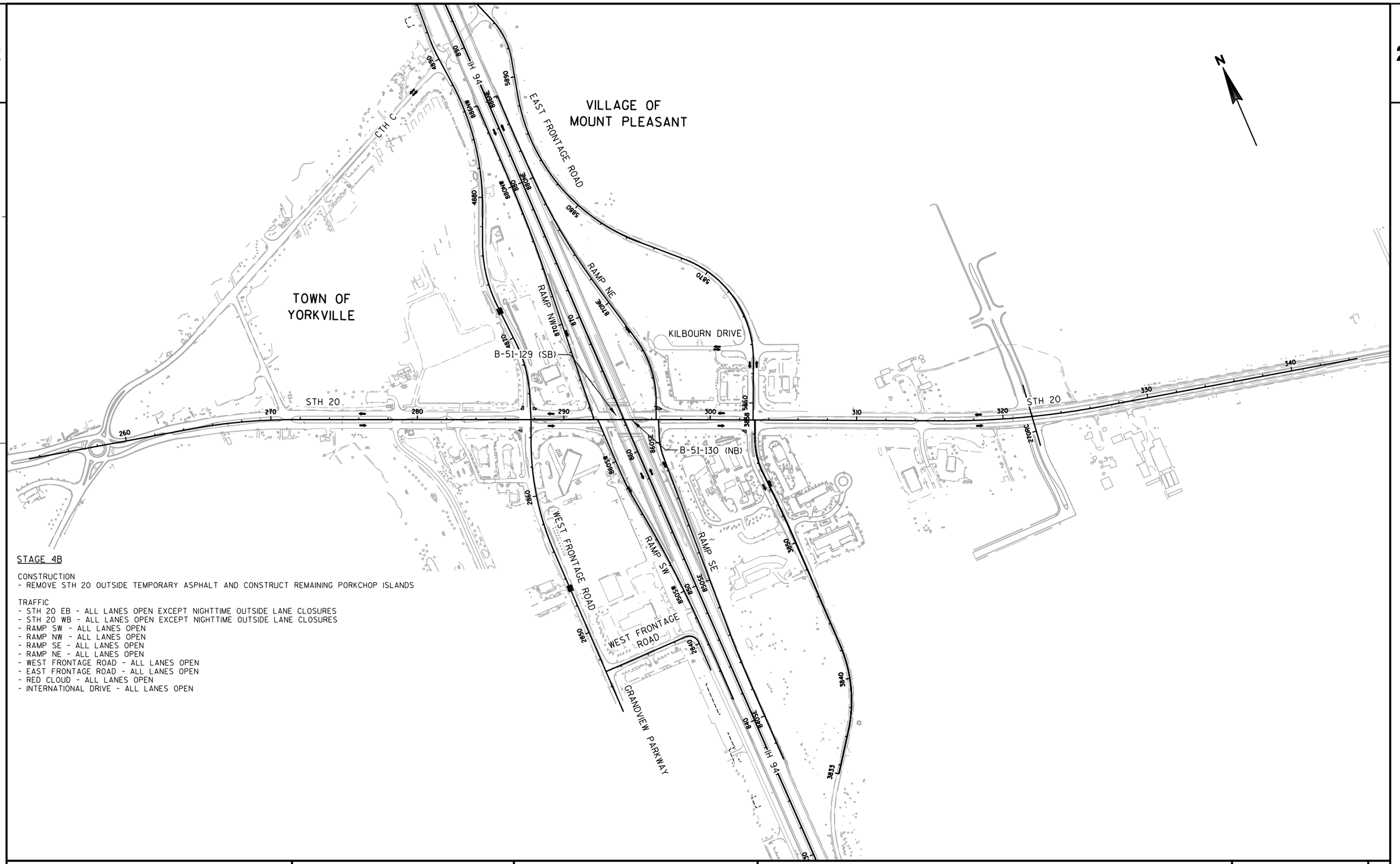
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 4A CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026819_s4a.dgn PLOT DATE : 13-DEC-2019 17:37 PLOT BY : mscd1s PLOT NAME : 026819_s4a PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2



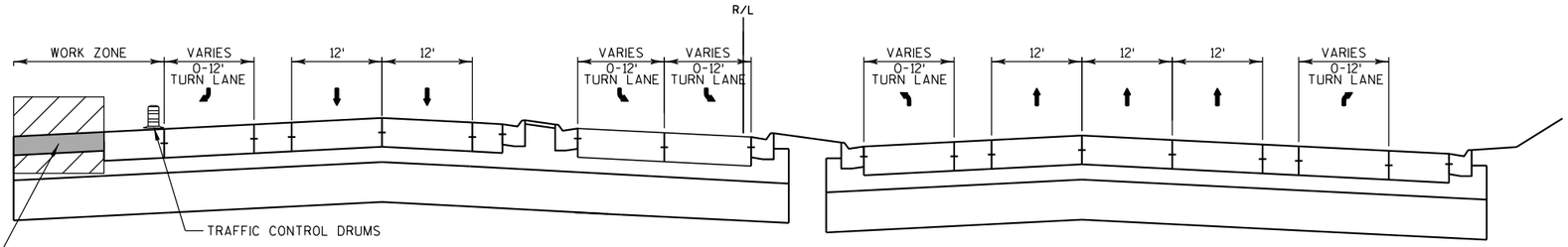
STAGE 4B

CONSTRUCTION
- REMOVE STH 20 OUTSIDE TEMPORARY ASPHALT AND CONSTRUCT REMAINING PORKCHOP ISLANDS

TRAFFIC
- STH 20 EB - ALL LANES OPEN EXCEPT NIGHTTIME OUTSIDE LANE CLOSURES
- STH 20 WB - ALL LANES OPEN EXCEPT NIGHTTIME OUTSIDE LANE CLOSURES
- RAMP SW - ALL LANES OPEN
- RAMP NW - ALL LANES OPEN
- RAMP SE - ALL LANES OPEN
- RAMP NE - ALL LANES OPEN
- WEST FRONTAGE ROAD - ALL LANES OPEN
- EAST FRONTAGE ROAD - ALL LANES OPEN
- RED CLOUD - ALL LANES OPEN
- INTERNATIONAL DRIVE - ALL LANES OPEN

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE CONSTRUCTION: OVERVIEW - STAGE 4B	SHEET	E

2



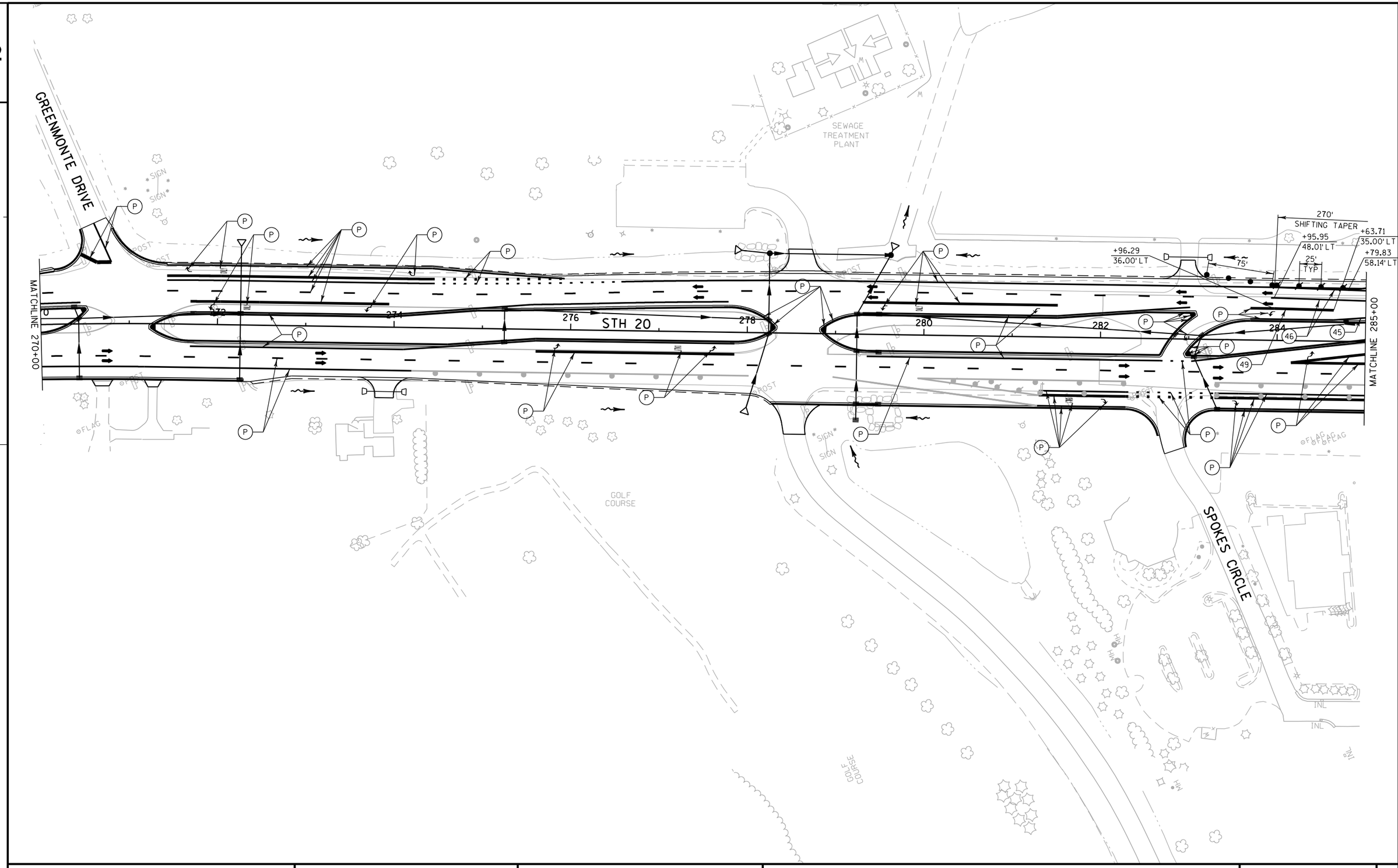
STAGE 4A TYPICAL SECTION

STH 20
LOOKING EAST

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE CONSTRUCTION: TYPICAL SECTIONS - STAGE 4B	SHEET	E

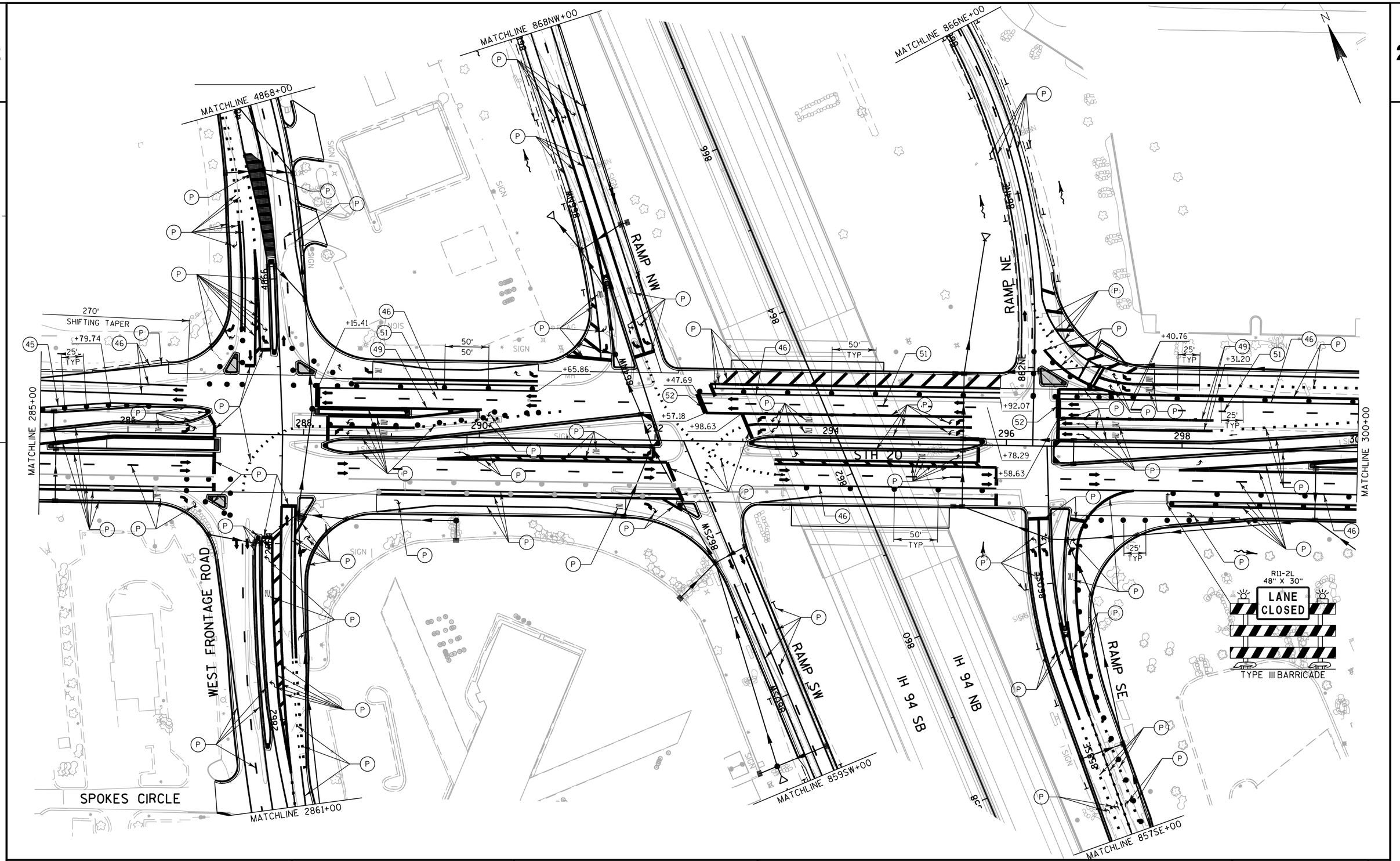
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2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 4B CONSTRUCTION	SHEET	E

2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 4B CONSTRUCTION	SHEET	E

2

MATCHLINE 5863+00

EAST FRONTAGE ROAD

5862

SIGN

270'
SHIFTING TAPER

25'
TYP

50'
TYP

+89.32

+99.31
53.99' LT

+39.07
72.00' LT

+95.20
79.92' LT

+59.64
65.60' LT

+62.12
85.52' LT

MATCHLINE 300+00

3858

3856

3854

302

304

306

308

310

312

314

STH 20

MATCHLINE 315+00

GALAXY DRIVE

MATCHLINE 3854+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 4B CONSTRUCTION	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\026914_s4b.dgn PLOT DATE : 13-DEC-2019 17:38 PLOT BY : mscd1s PLOT NAME : 026914_s4b PLOT SCALE : 100:1

2

N

5870

5868

5866

EAST FRONTAGE ROAD

5864

KILBOURN DRIVE

50

P

P

SIGN

MATCHLINE 5863+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 4B CONSTRUCTION	SHEET	E

2

N

(I) MB4-5 24" X 12" | MB3-1 24" X 12" | M1-1 24" X 24" | TO NORTH WEST | MB4-5 24" X 12" | M3-4 24" X 12" | M1-1 24" X 24" | INTERSTATE 41 94

(A) M06-1 21" X 21"

(B) M06-1 21" X 21"

(C) M05-1R 21" X 21"

(D) M05-1L 21" X 21"

(E) M06-1 21" X 21"

STH 20

KRAUT ROAD

2 MILE ROAD

3 MILE ROAD

CTH K

WEST FRONTAGE ROAD

IH 94

EAST FRONTAGE ROAD

GOLF ROAD

NORTHWESTERN AVENUE

EXISTING

EXISTING

EXISTING

EXISTING

EXISTING

XXX

500'

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- SIGN NUMBER
- DETOUR ROUTE
- CLOSED ROAD OR RAMP

NOTES

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

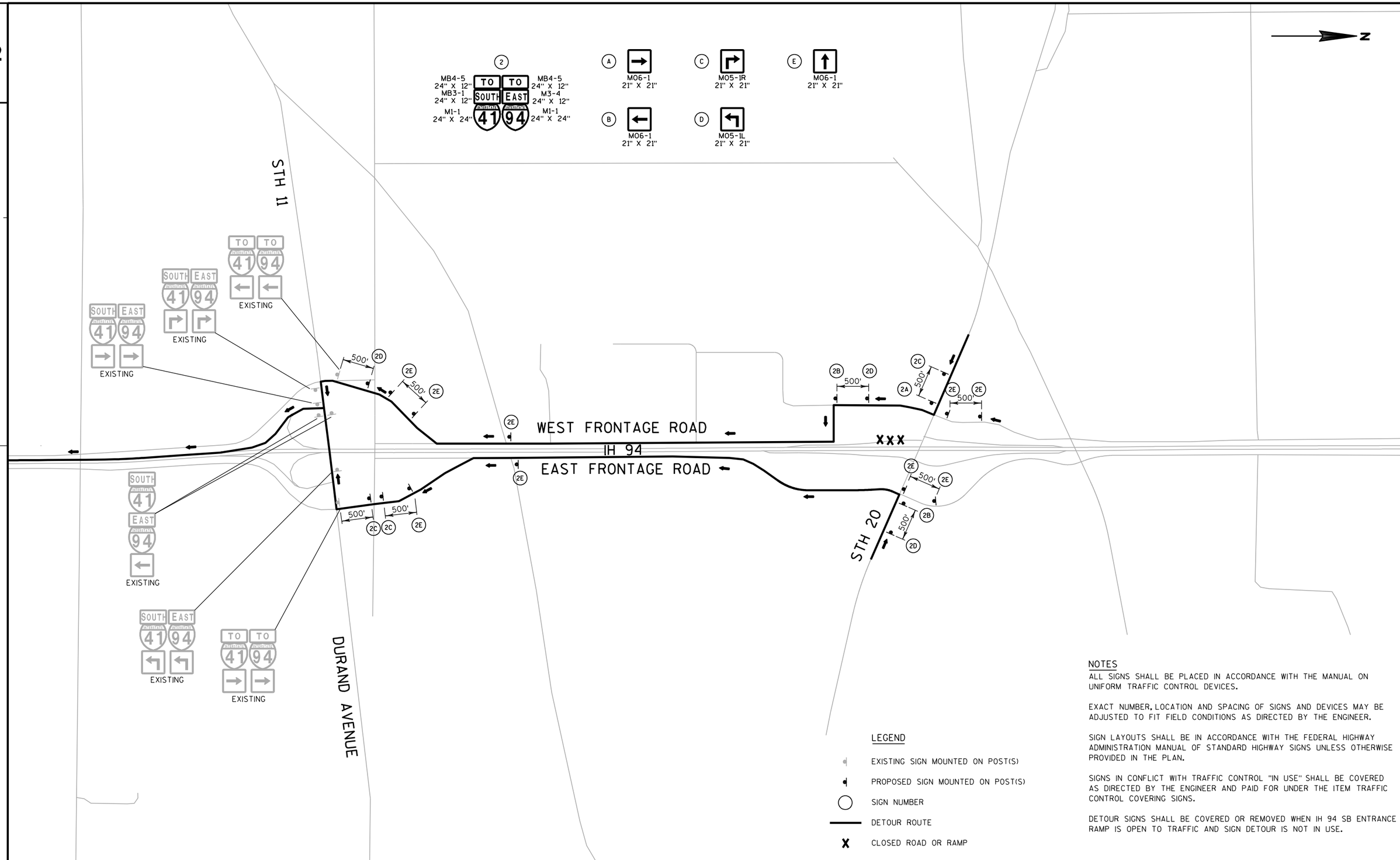
EXACT NUMBER, LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.

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

DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN IH 94 NB ENTRANCE RAMP IS OPEN TO TRAFFIC AND SIGN DETOUR IS NOT IN USE.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	DETOUR PLAN - STH 20 NB ENTRANCE RAMP (STAGES 2 & 3)	SHEET	E



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- SIGN NUMBER
- DETOUR ROUTE
- X CLOSED ROAD OR RAMP

NOTES

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

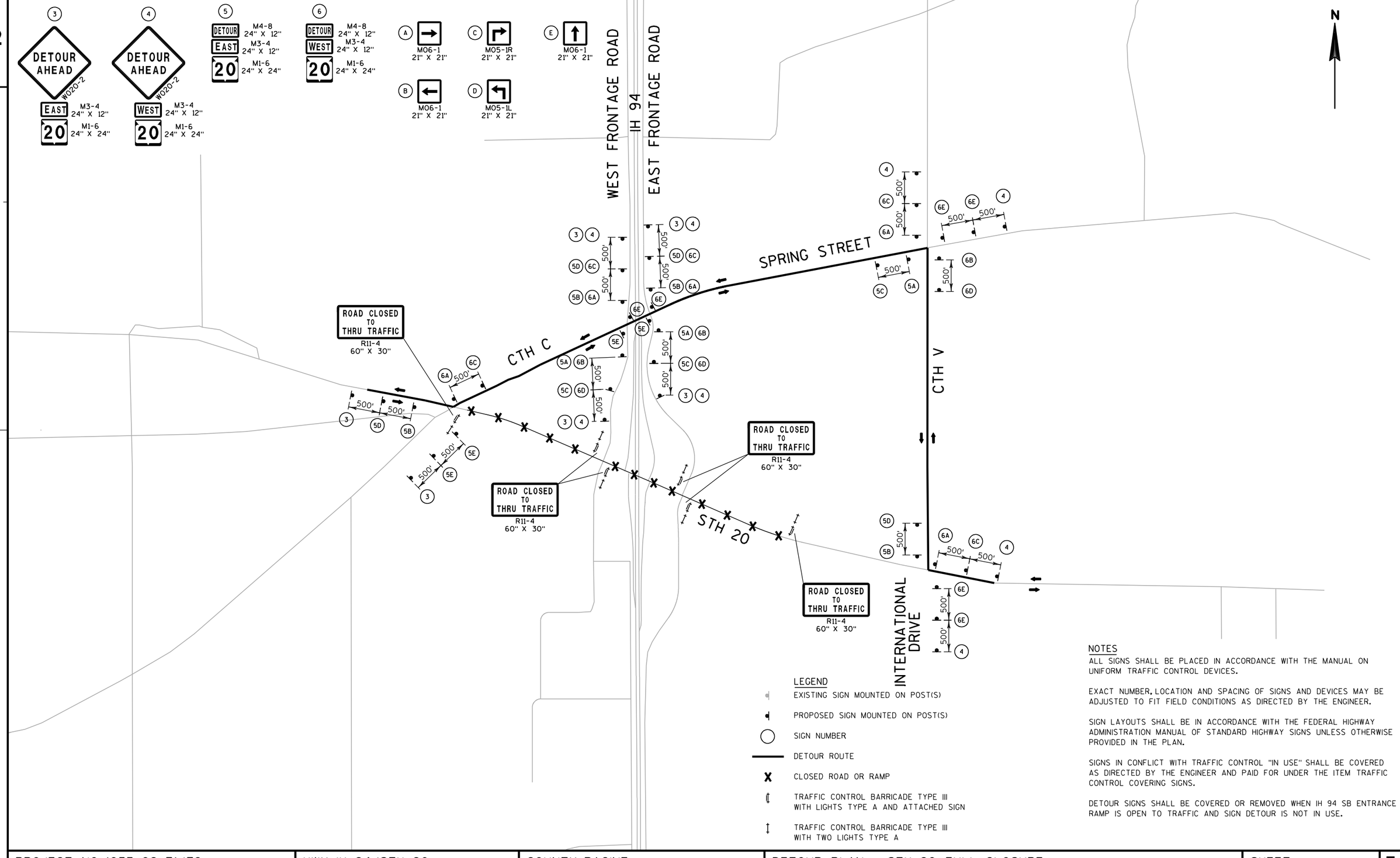
EXACT NUMBER, LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.

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

DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN IH 94 SB ENTRANCE RAMP IS OPEN TO TRAFFIC AND SIGN DETOUR IS NOT IN USE.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	DETOUR PLAN - STH 20 SB ENTRANCE RAMP (STAGES 2 & 3)	SHEET	E



N

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- SIGN NUMBER
- DETOUR ROUTE
- CLOSED ROAD OR RAMP
- TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A AND ATTACHED SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO LIGHTS TYPE A

NOTES

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

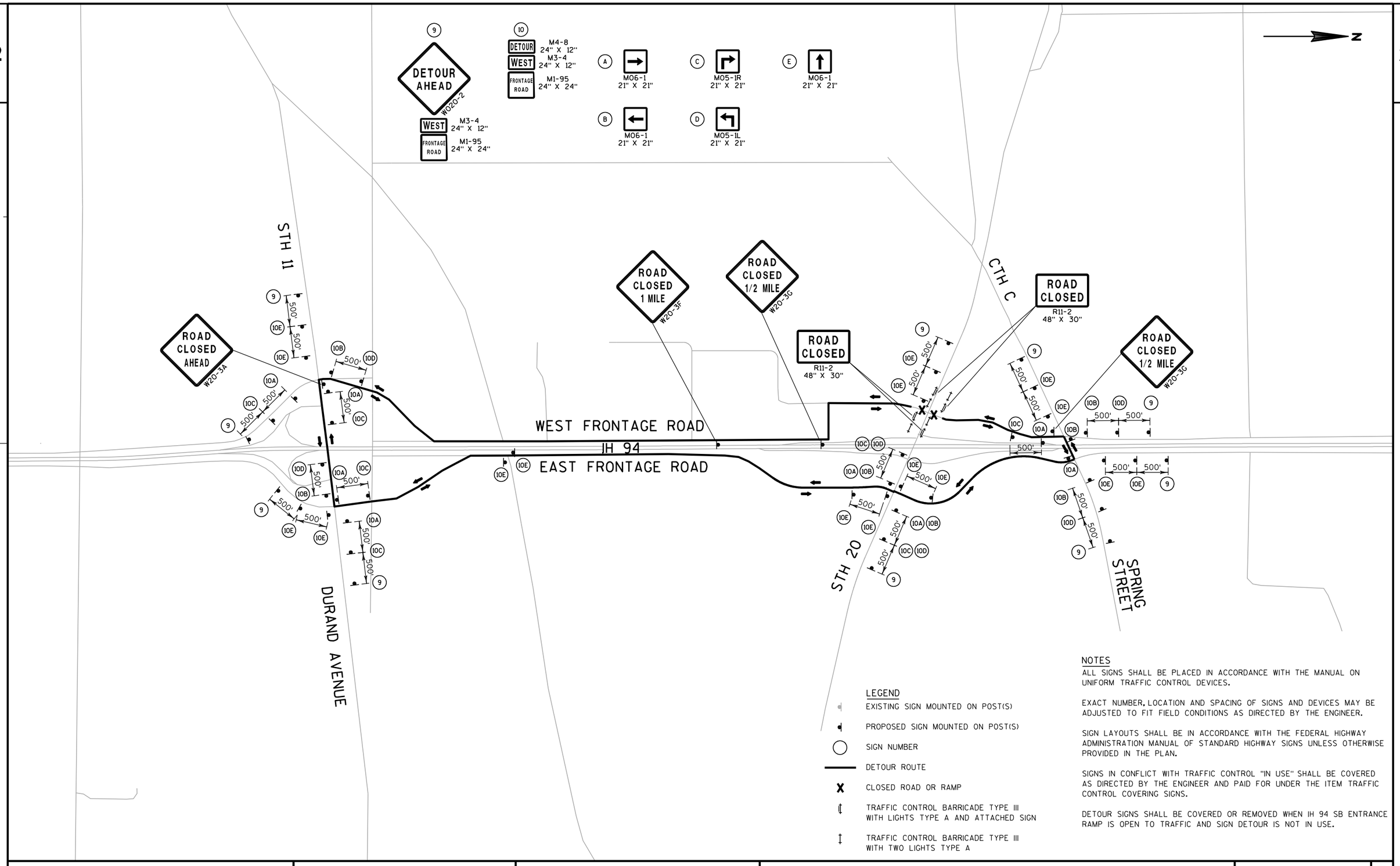
EXACT NUMBER, LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.

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

DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN IH 94 SB ENTRANCE RAMP IS OPEN TO TRAFFIC AND SIGN DETOUR IS NOT IN USE.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	DETOUR PLAN - STH 20 FULL CLOSURE	SHEET E



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- SIGN NUMBER
- DETOUR ROUTE
- CLOSED ROAD OR RAMP
- TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A AND ATTACHED SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO LIGHTS TYPE A

NOTES

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.

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

DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN IH 94 SB ENTRANCE RAMP IS OPEN TO TRAFFIC AND SIGN DETOUR IS NOT IN USE.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	DETOUR PLAN - WEST FRONTAGE ROAD FULL CLOSURE	SHEET	E

2

N

(7) DETOUR AHEAD W20-2
EAST M3-4 24" X 12"
FRONTAGE ROAD M1-95 24" X 24"

(8) DETOUR M4-8 24" X 12"
EAST M3-4 24" X 12"
FRONTAGE ROAD M1-95 24" X 24"

(A) M06-1 21" X 21"
(B) M06-1 21" X 21"
(C) M05-1R 21" X 21"
(D) M05-1L 21" X 21"
(E) M06-1 21" X 21"

STH 11

DURAND AVENUE

WEST FRONTAGE ROAD

IH 94

EAST FRONTAGE ROAD

CTH C

STH 20

SPRING STREET

ROAD CLOSED AHEAD W20-3A

ROAD CLOSED 1 MILE W20-3F

ROAD CLOSED 1/2 MILE W20-3G

ROAD CLOSED R11-2 48" X 30"

ROAD CLOSED R11-2 48" X 30"

ROAD CLOSED 1/2 MILE W20-3G

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- SIGN NUMBER
- DETOUR ROUTE
- CLOSED ROAD OR RAMP
- TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A AND ATTACHED SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO LIGHTS TYPE A

NOTES

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.

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

DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN IH 94 SB ENTRANCE RAMP IS OPEN TO TRAFFIC AND SIGN DETOUR IS NOT IN USE.

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	DETOUR PLAN - EAST FRONTAGE ROAD FULL CLOSURE	SHEET	E

2

2

IH 94 SB

IH 94 NB

RAMP SW

RAMP SE

SW+56.92
99.02'LT

SW+37.29
56.52'LT

SW+17.79
26.06'LT

SE+86.76
24.99'RT

SE+03.95
72.32'RT

SE+83.06
42.78'RT

SE+21.28
53.42'RT

848SW 850SW 852SW 854SW 856SW 858SW 860SW

848SE 850SE 852SE 854SE 856SE 858SE 860SE

848 850 852 854 856 858 860

MATCHLINE 862+00

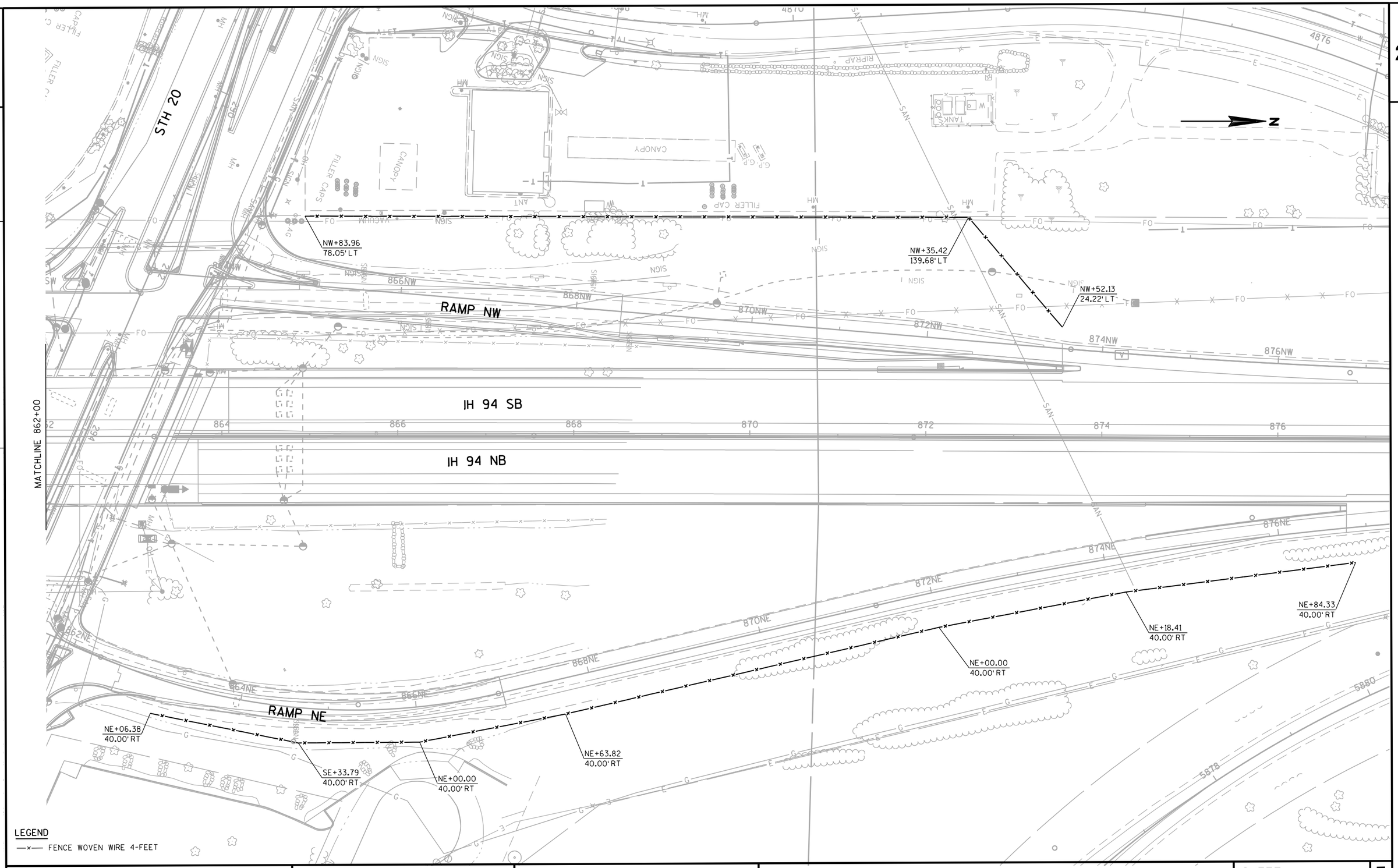
LEGEND

—x— FENCE WOVEN WIRE 4-FEET

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	FENCING PLAN	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\027101_fn.dgn PLOT DATE : 12-DEC-2019 03:04 PLOT BY : mscd1s PLOT NAME : 027101_fn PLOT SCALE : 100:1

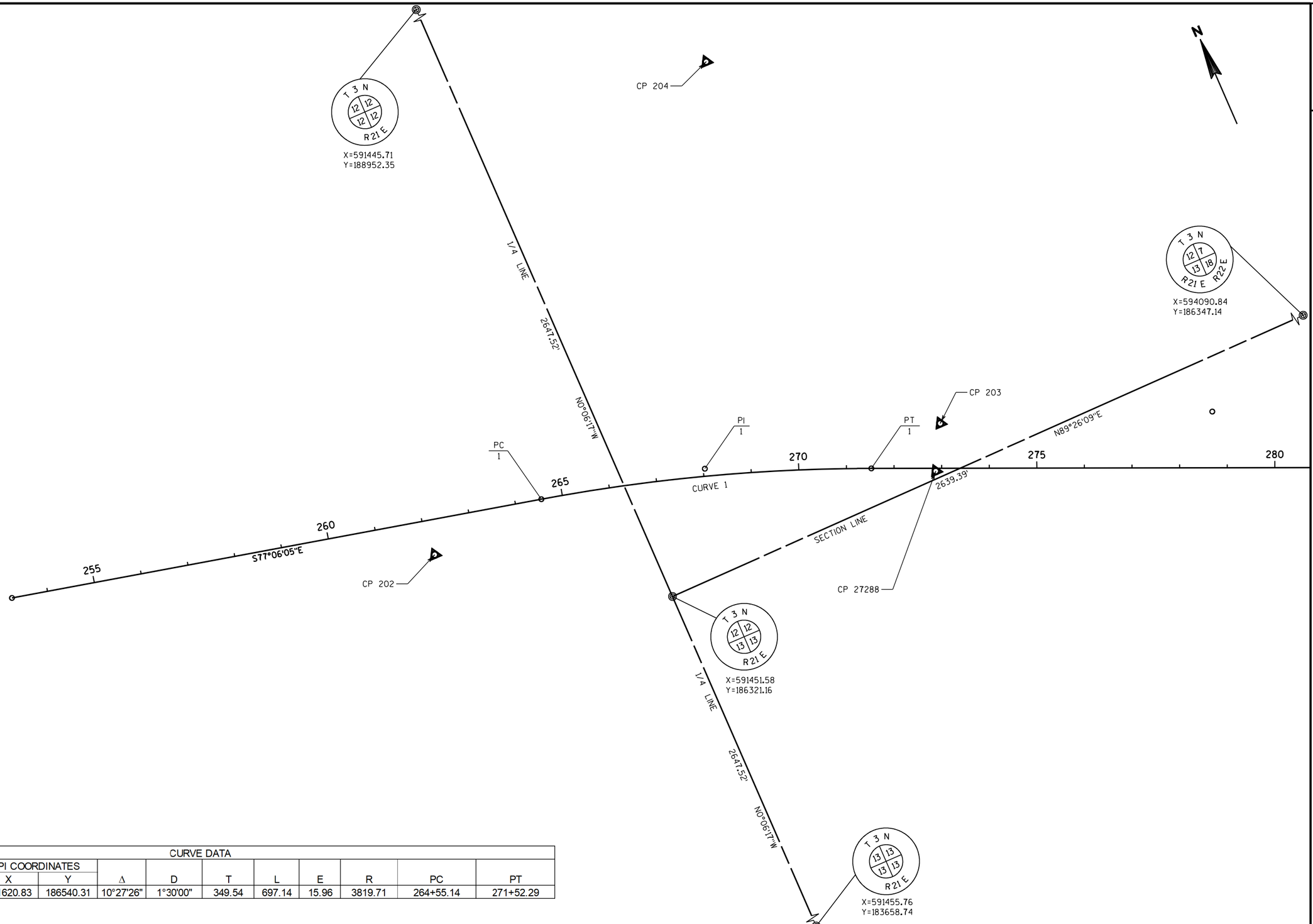
WISDOT/CADDS SHEET 42



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	FENCING PLAN	SHEET E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\027102_fn.dgn PLOT DATE : 12-DEC-2019 03:04 PLOT BY : mscd1s PLOT NAME : 027102_fn PLOT SCALE : 100.233474:1 WISDOT/CADL[illegible]ET 42

2



CURVE DATA											
CURVE NO.	PI	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
1	268+04.69	591620.83	186540.31	10°27'26"	1°30'00"	349.54	697.14	15.96	3819.71	264+55.14	271+52.29

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	ALIGNMENT LAYOUT	SHEET E

2

T 3 N
12 | 7
12 | 7
R21 E R22 E
X=594080.88
Y=188984.80

T 3 N
7 | 7
18 | 18
R22 E
X=596599.43
Y=186275.68

T 3 N
12 | 7
13 | 18
R21 E R22 E
X=594090.84
Y=186347.14

T 3 N
12 | 12
13 | 13
R21 E
X=591451.58
Y=186321.16

T 3 N
13 | 18
13 | 18
R21 E R22 E
X=594100.15
Y=183686.18

CP 9150

CP 87028

CP 502

CP 31005

CP 503

CP 85429

CP 83343

CP 83178

PI EN1

PC EN1

PT WN1

PI WN1

PC WN1

PT NE1

PI NE1

PC NE1

PT WS1

PI WS1

PC WS1

PT SW1

PI SW1

PC SW1

PT SE1

PI SE1

PC SE1

PT ES2

PI ES2

PC ES2

PT ES1

PI ES1

PC ES1

PI 298+15.83
X=594387.03
Y=185345.81

287+76.11 STH 20 =
4864+22.42 WEST FRONTAGE ROAD
X=593432.50
Y=185757.99

287+76.11 STH 20 =
2865+23.97 WEST FRONTAGE ROAD
X=593432.50
Y=185757.99

292+06.70 STH 20 =
863NW+13.64 RAMP NW
X=593827.81
Y=185587.29

292+32.59 STH 20 =
863SW+12.26 RAMP SW
X=593851.58
Y=185577.03

296+29.99 STH 20 =
861NE+10.98 RAMP NE
X=594216.42
Y=185419.48

296+46.42 STH 20 =
861SE+56.06 RAMP SE
X=594231.51
Y=185412.97

302+92.41 STH 20 =
5858+84.34 EAST FRONTAGE ROAD
X=594823.66
Y=185154.80

303+05.92 STH 20 =
3858+95.98 EAST FRONTAGE ROAD
X=594836.03
Y=185149.38

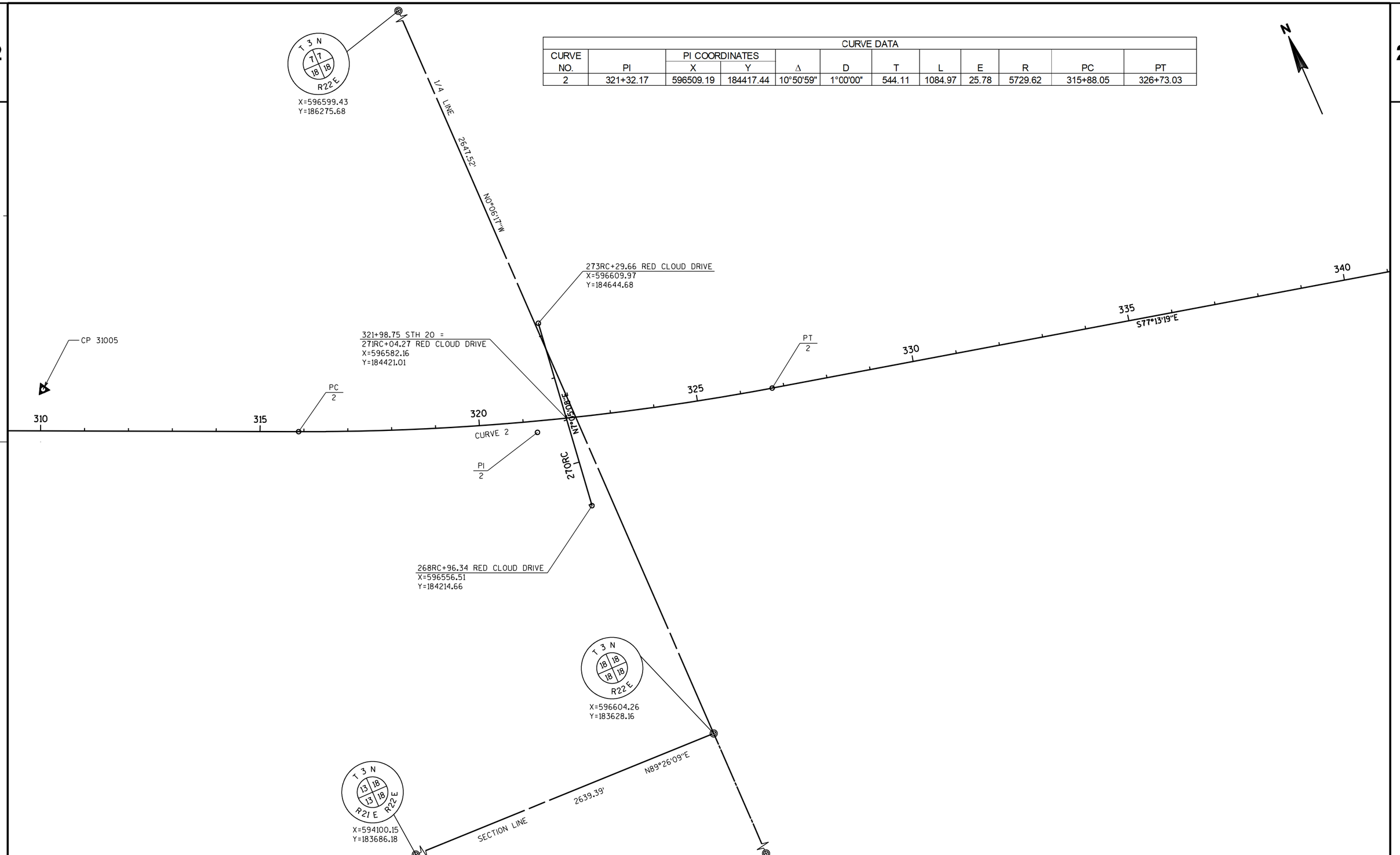
CURVE DATA

CURVE NO.	PI	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
3	112+97.54	599296.53	181506.25	3°43'13"	0°54'10"	206.14	412.15	3.35	6347.46	110+91.40	115+03.55
4	117+14.45	599254.17	181921.14	5°48'01"	1°22'35"	210.90	421.44	5.34	4163.08	115+03.55	119+24.99

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	ALIGNMENT LAYOUT	SHEET	E

2

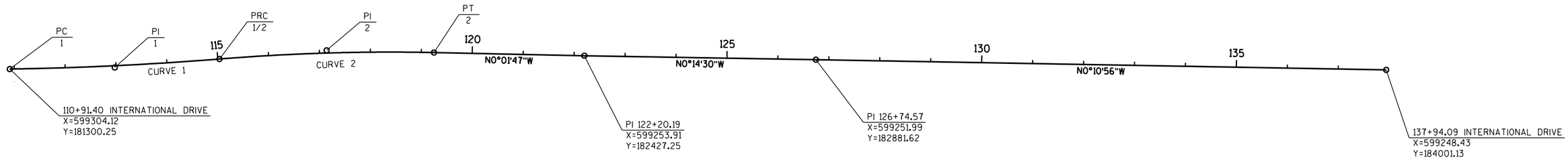
CURVE DATA											
CURVE NO.	PI	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
2	321+32.17	596509.19	184417.44	10°50'59"	1°00'00"	544.11	1084.97	25.78	5729.62	315+88.05	326+73.03



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	ALIGNMENT LAYOUT	SHEET	E

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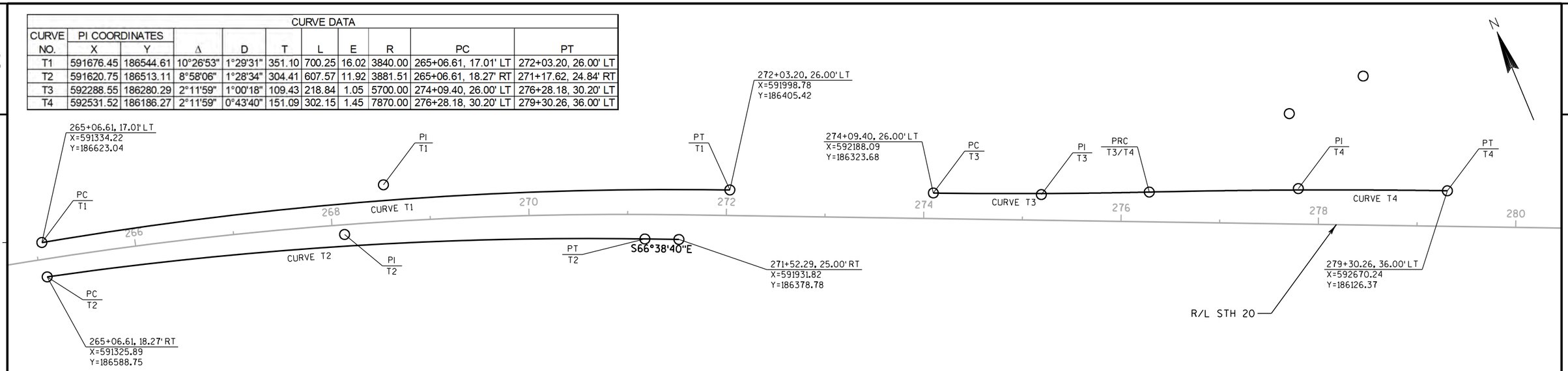
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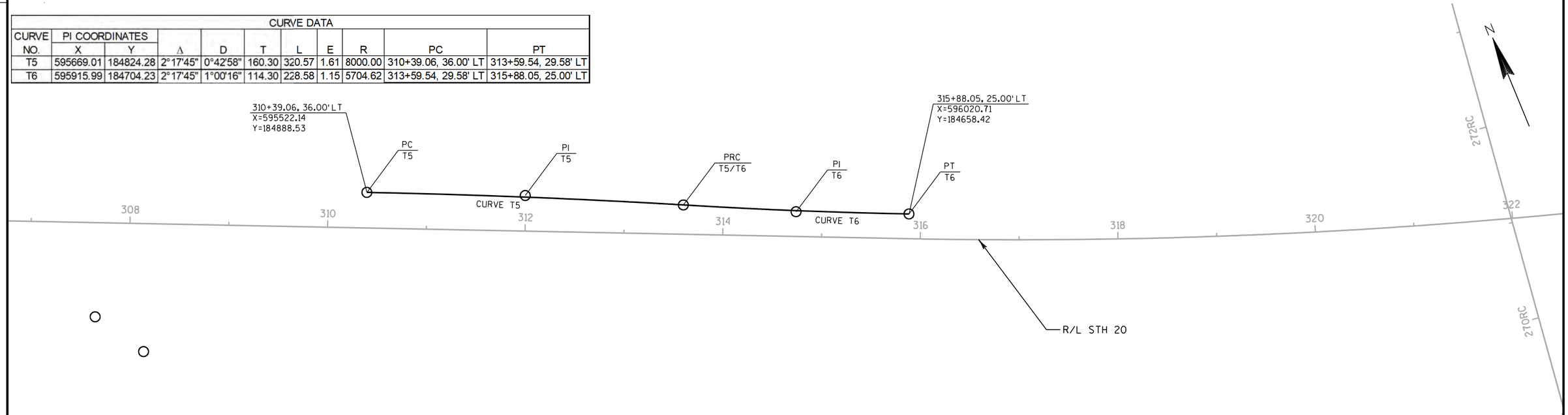
CURVE DATA											
CURVE NO.	PI	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
1	112+97.54	599296.53	181506.25	3°43'13"	0°54'10"	206.14	412.15	3.35	6347.46	110+91.40	115+03.55
2	117+14.45	599254.17	181921.14	5°48'01"	1°22'35"	210.90	421.44	5.34	4163.08	115+03.55	119+24.99

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	ALIGNMENT LAYOUT	SHEET	E

CURVE DATA										
CURVE NO.	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
T1	591676.45	186544.61	10°26'53"	1°29'31"	351.10	700.25	16.02	3840.00	265+06.61, 17.01' LT	272+03.20, 26.00' LT
T2	591620.75	186513.11	8°58'06"	1°28'34"	304.41	607.57	11.92	3881.51	265+06.61, 18.27' RT	271+17.62, 24.84' RT
T3	592288.55	186280.29	2°11'59"	1°00'18"	109.43	218.84	1.05	5700.00	274+09.40, 26.00' LT	276+28.18, 30.20' LT
T4	592531.52	186186.27	2°11'59"	0°43'40"	151.09	302.15	1.45	7870.00	276+28.18, 30.20' LT	279+30.26, 36.00' LT



CURVE DATA										
CURVE NO.	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
T5	595669.01	184824.28	2°17'45"	0°42'58"	160.30	320.57	1.61	8000.00	310+39.06, 36.00' LT	313+59.54, 29.58' LT
T6	595915.99	184704.23	2°17'45"	1°00'16"	114.30	228.58	1.15	5704.62	313+59.54, 29.58' LT	315+88.05, 25.00' LT

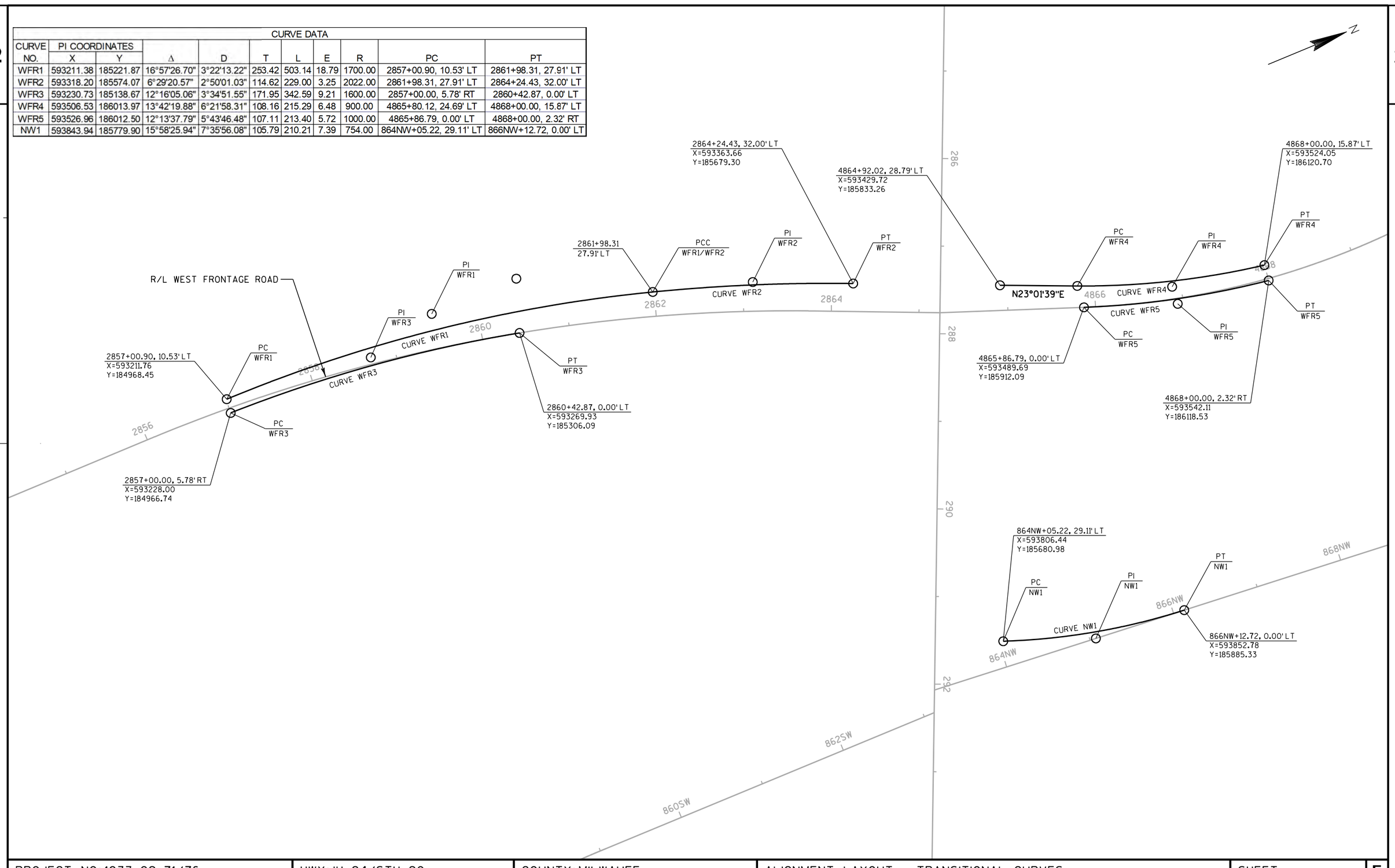


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: MILWAUEE	ALIGNMENT LAYOUT - TRANSITIONAL CURVES	SHEET	E

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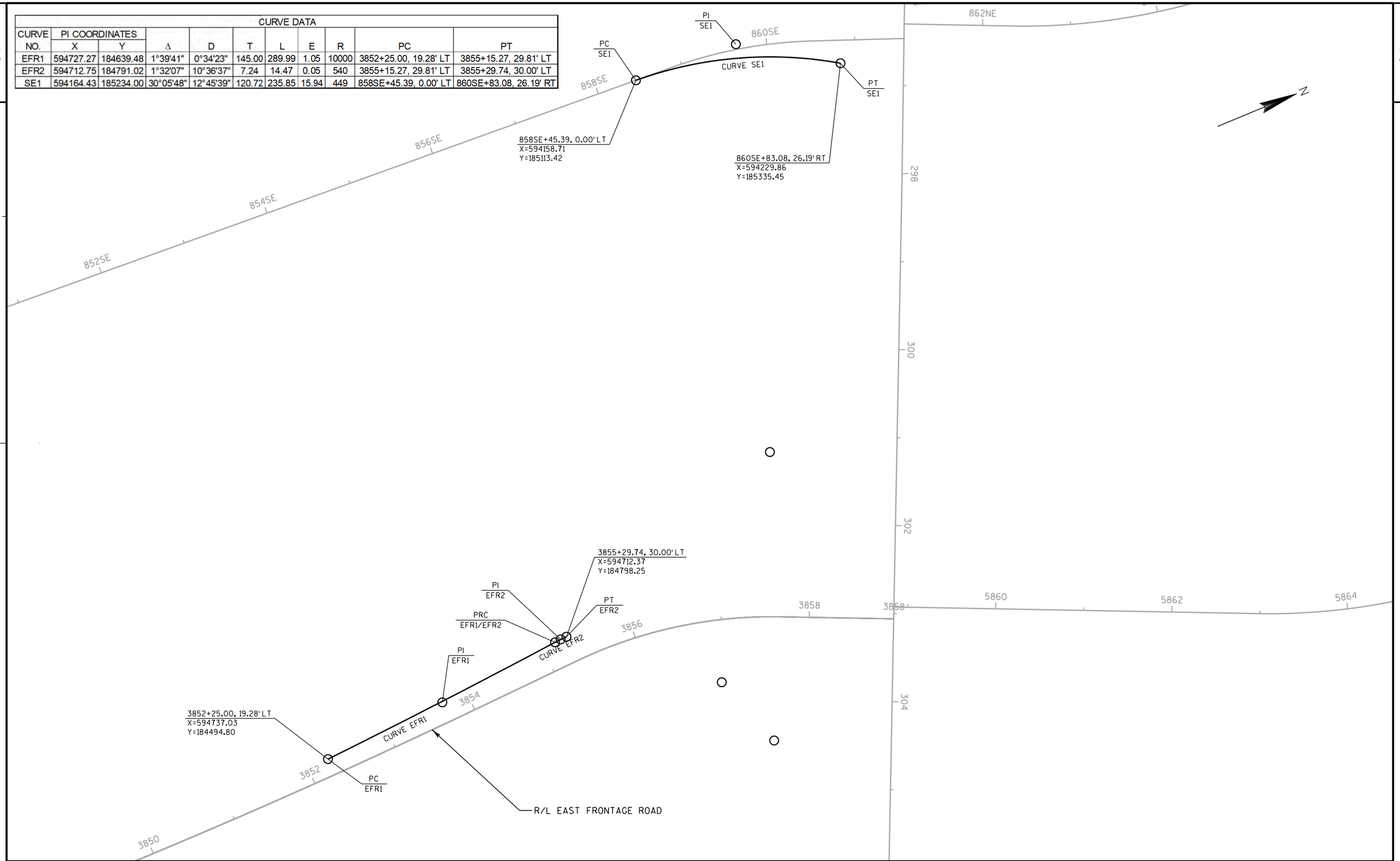
WISDOT/CADDS SHEET 42

CURVE DATA										
CURVE NO.	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
WFR1	593211.38	185221.87	16°57'26.70"	3°22'13.22"	253.42	503.14	18.79	1700.00	2857+00.90, 10.53' LT	2861+98.31, 27.91' LT
WFR2	593318.20	185574.07	6°29'20.57"	2°50'01.03"	114.62	229.00	3.25	2022.00	2861+98.31, 27.91' LT	2864+24.43, 32.00' LT
WFR3	593230.73	185138.67	12°16'05.06"	3°34'51.55"	171.95	342.59	9.21	1600.00	2857+00.00, 5.78' RT	2860+42.87, 0.00' LT
WFR4	593506.53	186013.97	13°42'19.88"	6°21'58.31"	108.16	215.29	6.48	900.00	4865+80.12, 24.69' LT	4868+00.00, 15.87' LT
WFR5	593526.96	186012.50	12°13'37.79"	5°43'46.48"	107.11	213.40	5.72	1000.00	4865+86.79, 0.00' LT	4868+00.00, 2.32' RT
NW1	593843.94	185779.90	15°58'25.94"	7°35'56.08"	105.79	210.21	7.39	754.00	864NW+05.22, 29.11' LT	866NW+12.72, 0.00' LT



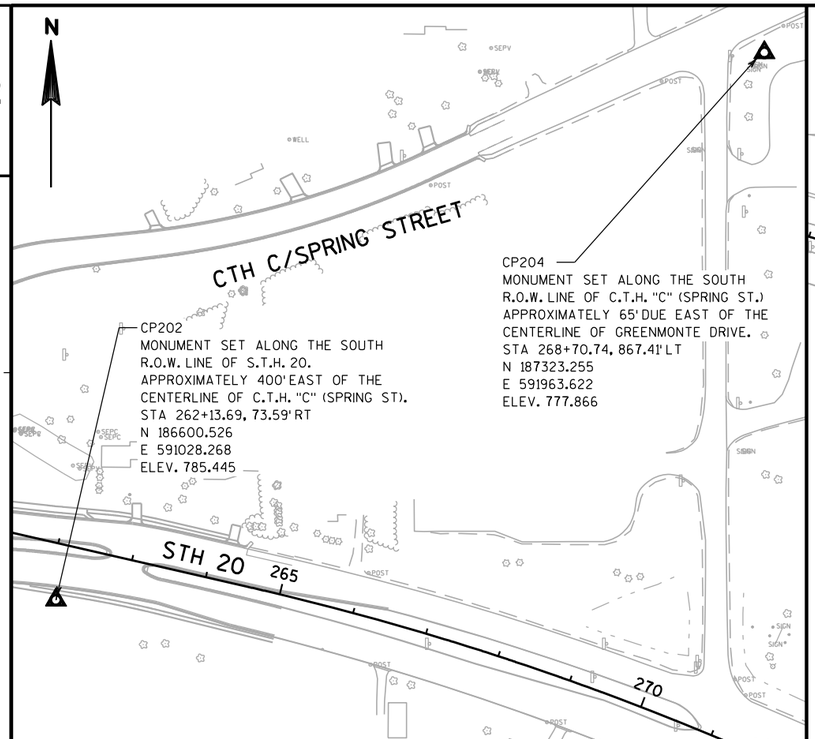
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: MILWAUEE	ALIGNMENT LAYOUT - TRANSITIONAL CURVES	SHEET	E

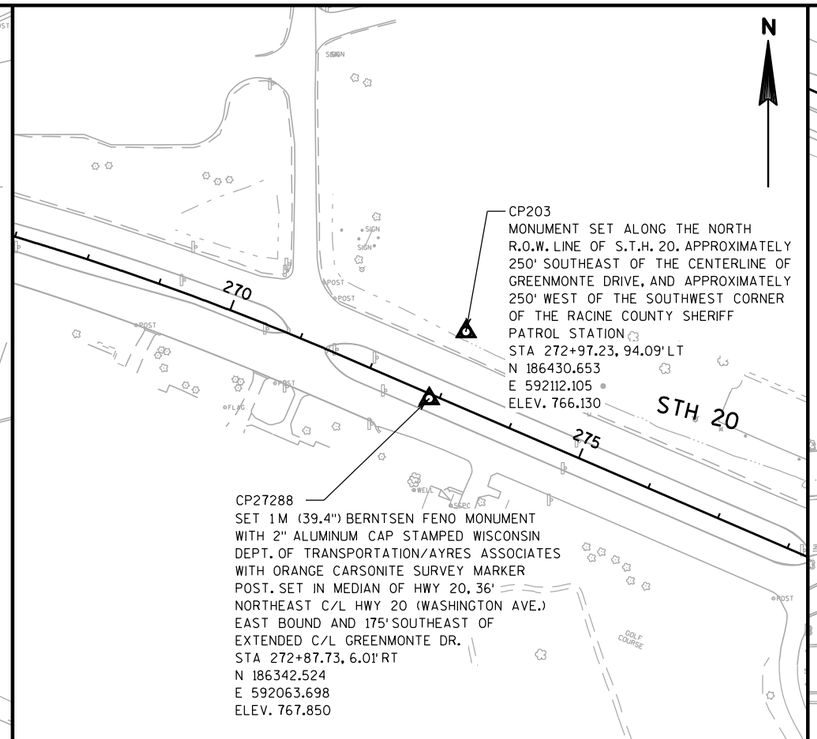
CURVE DATA										
CURVE NO.	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
EFR1	594727.27	184639.48	1°39'41"	0°34'23"	145.00	289.99	1.05	10000	3852+25.00, 19.28' LT	3855+15.27, 29.81' LT
EFR2	594712.75	184791.02	1°32'07"	10°36'37"	7.24	14.47	0.05	540	3855+15.27, 29.81' LT	3855+29.74, 30.00' LT
SE1	594164.43	185234.00	30°05'48"	12°45'39"	120.72	235.85	15.94	449	858SE+45.39, 0.00' LT	860SE+83.08, 26.19' RT

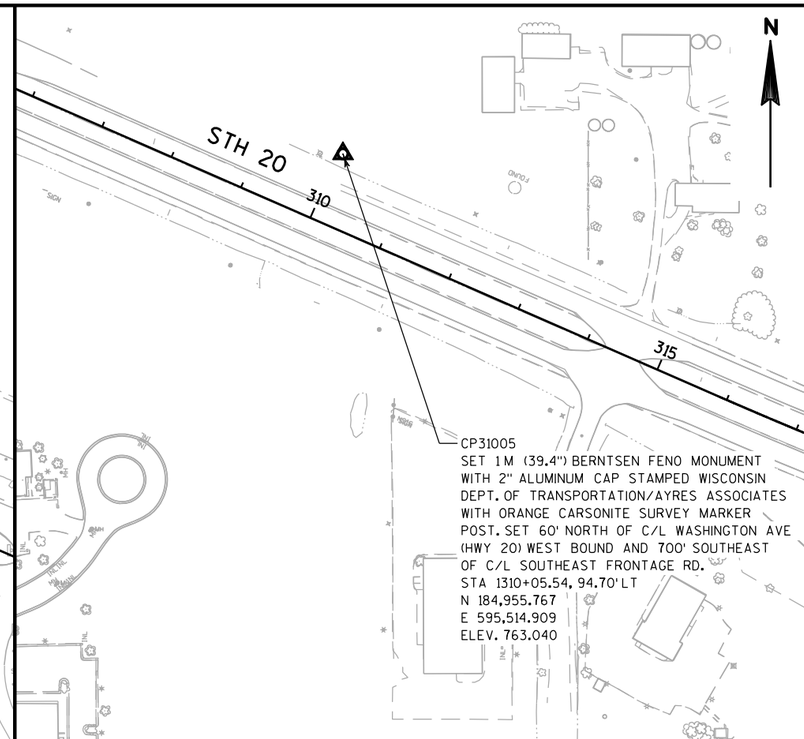


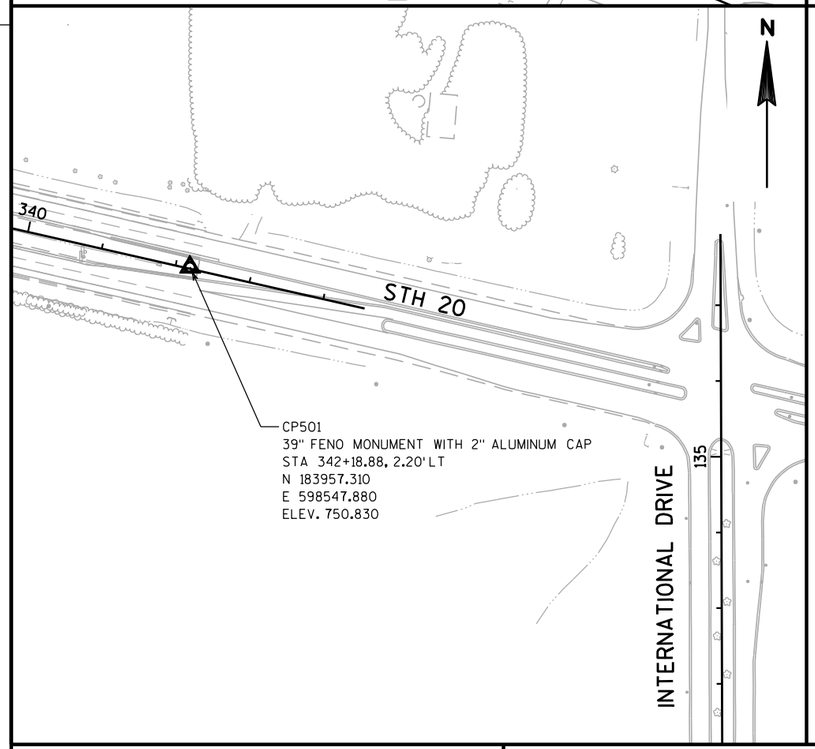
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: MILWAUEE	ALIGNMENT LAYOUT - TRANSITIONAL CURVES	SHEET	E

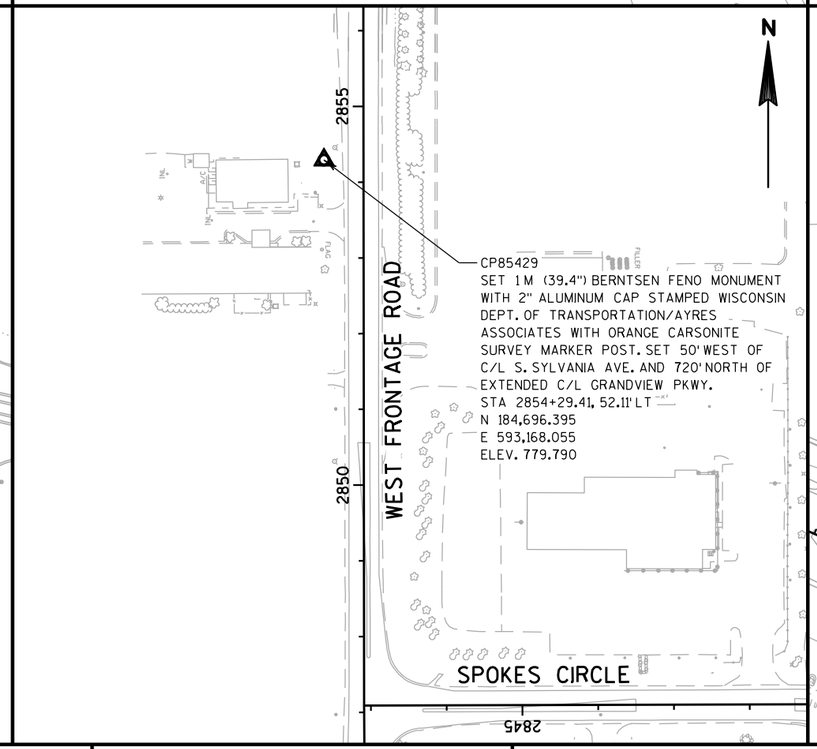
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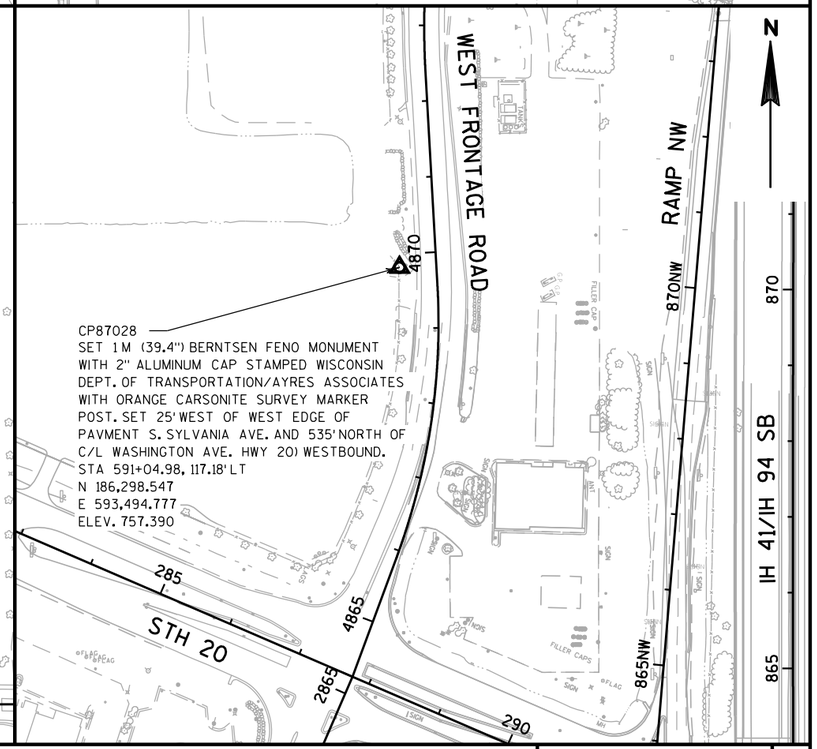




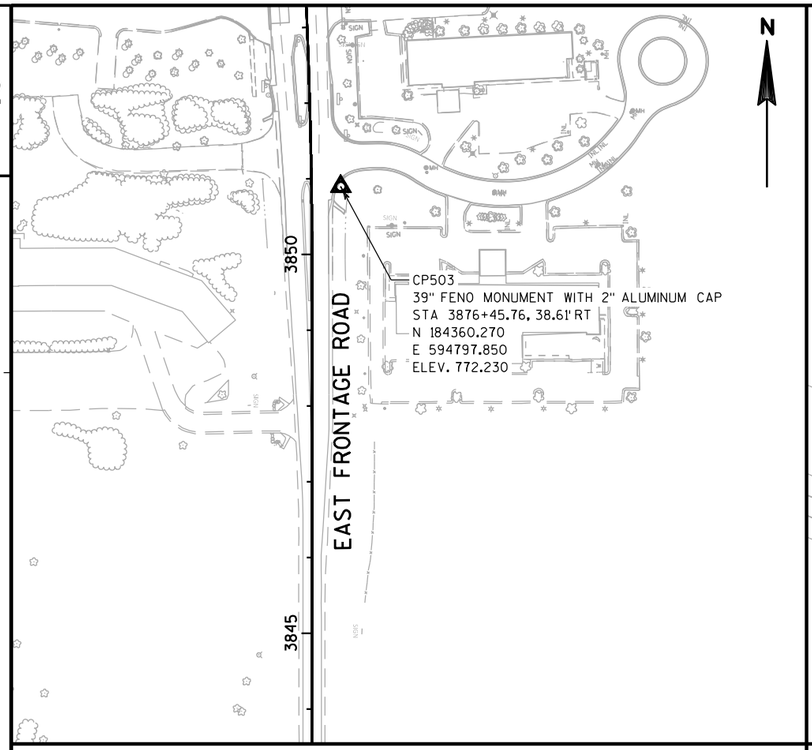


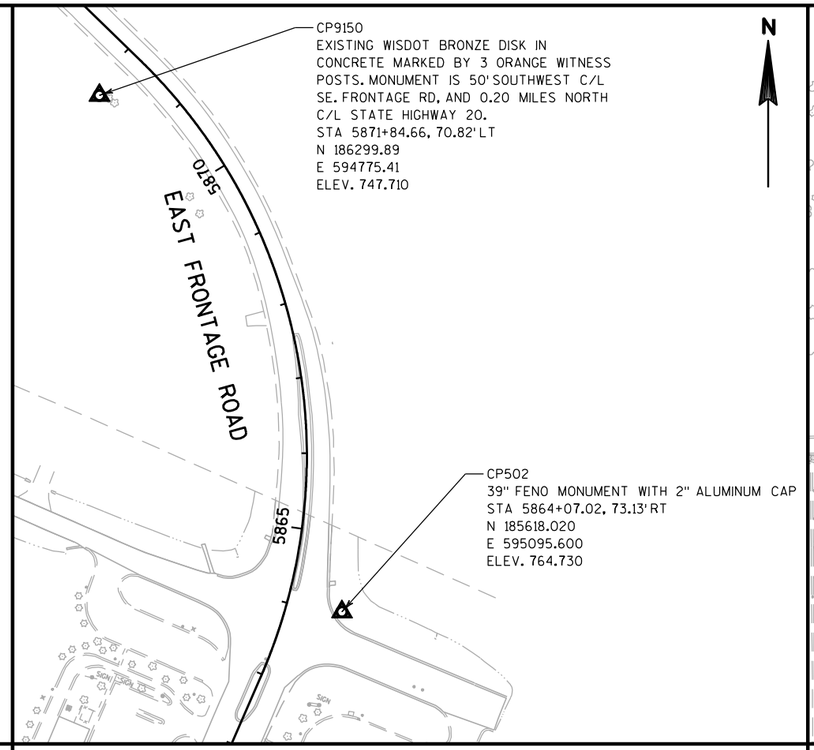


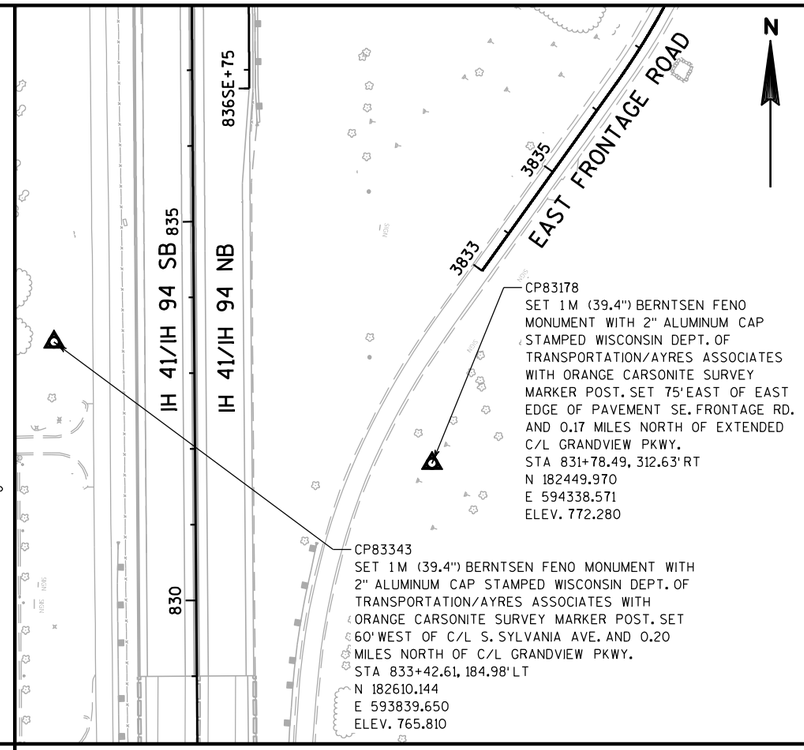




PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET	E







2

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET	E

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	1033-02-71 Qty	1033-02-76 Qty
0002	201.0105	Clearing	STA	21.000	21.000	
0004	201.0120	Clearing	ID	208.000	208.000	
0006	201.0205	Grubbing	STA	21.000	21.000	
0008	201.0220	Grubbing	ID	208.000	208.000	
0010	203.0100	Removing Small Pipe Culverts	EACH	20.000	20.000	
0012	204.0100	Removing Pavement	SY	60,830.000	60,830.000	
0014	204.0125	Removing Asphaltic Surface Milling	TON	16,148.000	1,086.000	15,062.000
0016	204.0150	Removing Curb & Gutter	LF	6,600.000	6,600.000	
0018	204.0155	Removing Concrete Sidewalk	SY	307.000	307.000	
0020	204.0157	Removing Concrete Barrier	LF	44.000	44.000	
0022	204.0165	Removing Guardrail	LF	196.000	196.000	
0024	204.0190	Removing Surface Drains	EACH	4.000	4.000	
0026	204.0195	Removing Concrete Bases	EACH	48.000	48.000	
0028	204.0210	Removing Manholes	EACH	5.000	5.000	
0030	204.0220	Removing Inlets	EACH	59.000	59.000	
0032	204.0245	Removing Storm Sewer (size) 0004. 12-Inch	LF	1,092.000	1,092.000	
0034	204.0245	Removing Storm Sewer (size) 0006. 15-Inch	LF	898.000	898.000	
0036	204.0245	Removing Storm Sewer (size) 0008. 18-Inch	LF	1,646.000	1,646.000	
0038	204.0245	Removing Storm Sewer (size) 0010. 24-Inch	LF	683.000	683.000	
0040	204.0245	Removing Storm Sewer (size) 0012. 30-Inch	LF	368.000	368.000	
0042	204.0245	Removing Storm Sewer (size) 0016. 36-Inch	LF	347.000	347.000	
0044	204.0270	Abandoning Culvert Pipes	EACH	1.000	1.000	
0046	204.0275	Closing Culvert Pipes	EACH	1.000	1.000	
0048	204.9060.S	Removing (item description) 2010. Vault	EACH	1.000	1.000	
0050	204.9060.S	Removing (item description) 2011. Electrical Service Meter Breaker Pedestal	EACH	1.000	1.000	
0052	204.9060.S	Removing (item description) 2012. On-Ramp Closure Gate	EACH	5.000	5.000	
0054	204.9105.S	Removing (item description) 3001. Traffic Signals STH 20 & W Frontage Rd	LS	1.000	1.000	
0056	204.9105.S	Removing (item description) 3002. Traffic Signals IH-94 Ramps & STH 20	LS	1.000	1.000	
0058	204.9105.S	Removing (item description) 3003. Traffic Signals STH 20 & E Frontage Rd	LS	1.000	1.000	
0060	204.9105.S	Removing (item description) 3004. Traffic Signals STH 20 & CTH H/Renaissance	LS	1.000	1.000	
0062	204.9105.S	Removing (item description) 3005. Loop Detector Wire & Lead-In Cable STH 20 & W Frontage Rd	LS	1.000	1.000	
0064	204.9105.S	Removing (item description) 3006. Loop Detector Wire & Lead-In Cable IH-94 Ramps & STH 20	LS	1.000	1.000	
0066	204.9105.S	Removing (item description) 3007. Loop Detector Wire & Lead-In Cable STH 20 & E Frontage Rd	LS	1.000	1.000	

					1033-02-71	1033-02-76
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0068	204.9180.S	Removing (item description) 0001. Concrete Channel	SY	187.000	187.000	
0070	205.0100	Excavation Common	CY	135,980.000	135,980.000	
0072	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	7,072.000	7,072.000	
0074	213.0100	Finishing Roadway (project) 0001. 1033-02-71	EACH	1.000	1.000	
0076	213.0100	Finishing Roadway (project) 0002. 1033-02-76	EACH	1.000		1.000
0078	305.0115	Base Aggregate Dense 3/4-Inch	CY	460.000	460.000	
0080	305.0125	Base Aggregate Dense 1 1/4-Inch	CY	31,245.000	31,245.000	
0082	312.0115	Select Crushed Material	CY	57,874.000	57,874.000	
0084	415.0095	Concrete Pavement 9 1/2-Inch	SY	17,498.000	17,498.000	
0086	415.0105	Concrete Pavement 10 1/2-Inch	SY	9,846.000	9,846.000	
0088	415.0115	Concrete Pavement 11 1/2-Inch	SY	76,005.000	76,005.000	
0090	415.0120	Concrete Pavement 12-Inch	SY	94.000	94.000	
0092	415.0210	Concrete Pavement Gaps	EACH	18.000	18.000	
0094	415.1095	Concrete Pavement HES 9 1/2-Inch	SY	1,950.000	1,950.000	
0096	415.1105	Concrete Pavement HES 10 1/2-Inch	SY	1,098.000	1,098.000	
0098	415.1115	Concrete Pavement HES 11 1/2-Inch	SY	7,156.000	7,156.000	
0100	415.5110.S	Concrete Pavement Joint Layout	LS	1.000	1.000	
0102	416.0260	Concrete Driveway HES 6-Inch	SY	65.000	65.000	
0104	416.0290	Concrete Driveway HES 9-Inch	SY	209.000	209.000	
0106	416.0610	Drilled Tie Bars	EACH	462.000	462.000	
0108	416.0620	Drilled Dowel Bars	EACH	206.000	206.000	
0110	416.1010	Concrete Surface Drains	CY	11.000	11.000	
0112	450.4000	HMA Cold Weather Paving	TON	1,687.000		1,687.000
0114	455.0605	Tack Coat	GAL	3,139.000	2,084.000	1,055.000
0116	460.2000	Incentive Density HMA Pavement	DOL	1,570.000	490.000	1,080.000
0118	460.6223	HMA Pavement 3 MT 58-28 S	TON	537.000	537.000	
0120	460.6224	HMA Pavement 4 MT 58-28 S	TON	196.000	196.000	
0122	460.6424	HMA Pavement 4 MT 58-28 H	TON	1,687.000		1,687.000
0124	465.0105	Asphaltic Surface	TON	48.000	48.000	
0126	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	361.000	361.000	
0128	465.0125	Asphaltic Surface Temporary	TON	9,133.000	9,133.000	
0130	495.1000.S	Cold patch	TON	10.000	10.000	
0132	520.1012	Apron Endwalls for Culvert Pipe 12-Inch	EACH	2.000	2.000	
0134	520.1036	Apron Endwalls for Culvert Pipe 36-Inch	EACH	4.000	4.000	
0136	520.2012	Culvert Pipe Temporary 12-Inch	LF	277.000	277.000	
0138	520.3336	Culvert Pipe Class III-A 36-Inch	LF	163.000	163.000	
0140	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	4.000	4.000	
0142	521.3118	Culvert Pipe Corrugated Steel 18-Inch	LF	99.000	99.000	
0144	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete	EACH	4.000	4.000	

				1033-02-71	1033-02-76
Line	Item	Item Description	Unit	Total	Qty	Qty
		18-Inch				
0146	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	4.000	4.000	
0148	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	3.000	3.000	
0150	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	1.000	1.000	
0152	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	2.000	2.000	
0154	522.2624	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	EACH	2.000	2.000	
0156	522.2629	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	1.000	1.000	
0158	522.2638	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 38x60-Inch	EACH	1.000	1.000	
0160	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	112.000	112.000	
0162	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	123.000	123.000	
0164	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	219.000	219.000	
0166	601.0551	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	LF	928.000	928.000	
0168	601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	LF	26,193.000	26,193.000	
0170	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	170.000	170.000	
0172	602.0410	Concrete Sidewalk 5-Inch	SF	27,148.000	27,148.000	
0174	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	90.000	90.000	
0176	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	60.000	60.000	
0178	603.1142	Concrete Barrier Type S42	LF	1,068.000	1,068.000	
0180	603.8000	Concrete Barrier Temporary Precast Delivered	LF	700.000	700.000	
0182	603.8125	Concrete Barrier Temporary Precast Installed	LF	700.000	700.000	
0184	606.0200	Riprap Medium	CY	582.000	582.000	
0186	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	1,807.000	1,807.000	
0188	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	4,834.000	4,834.000	
0190	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	2,434.000	2,434.000	
0192	608.0436	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	LF	32.000	32.000	
0194	608.0442	Storm Sewer Pipe Reinforced Concrete Class IV 42-Inch	LF	226.000	226.000	
0196	608.2319	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 19x30-Inch	LF	86.000	86.000	
0198	608.2324	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 24x38-Inch	LF	918.000	918.000	

					1033-02-71	1033-02-76
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0200	608.2329	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45-Inch	LF	180.000	180.000	
0202	608.2338	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 38x60-Inch	LF	144.000	144.000	
0204	611.0535	Manhole Covers Type J-Special	EACH	8.000	8.000	
0206	611.0627	Inlet Covers Type HM	EACH	124.000	124.000	
0208	611.0642	Inlet Covers Type MS	EACH	2.000	2.000	
0210	611.0654	Inlet Covers Type V	EACH	2.000	2.000	
0212	611.0666	Inlet Covers Type Z	EACH	2.000	2.000	
0214	611.2005	Manholes 5-FT Diameter	EACH	25.000	25.000	
0216	611.2006	Manholes 6-FT Diameter	EACH	15.000	15.000	
0218	611.2007	Manholes 7-FT Diameter	EACH	5.000	5.000	
0220	611.2008	Manholes 8-FT Diameter	EACH	3.000	3.000	
0222	611.3004	Inlets 4-FT Diameter	EACH	44.000	44.000	
0224	611.3230	Inlets 2x3-FT	EACH	35.000	35.000	
0226	611.3253	Inlets 2.5x3-FT	EACH	2.000	2.000	
0228	611.3901	Inlets Median 1 Grate	EACH	2.000	2.000	
0230	611.8115	Adjusting Inlet Covers	EACH	7.000	7.000	
0232	611.8120.S	Cover Plates Temporary	EACH	34.000	34.000	
0234	611.9710	Salvaged Inlet Covers	EACH	7.000	7.000	
0236	612.0106	Pipe Underdrain 6-Inch	LF	15,132.000	15,132.000	
0238	612.0902.S	Insulation Board Polystyrene (inch) 0001. 4-Inch	SY	25.000	25.000	
0240	614.0396	Guardrail Mow Strip Asphalt	SY	90.000	90.000	
0242	614.0800	Crash Cushions Permanent	EACH	1.000	1.000	
0244	614.2300	MGS Guardrail 3	LF	67.000	67.000	
0246	614.2610	MGS Guardrail Terminal EAT	EACH	1.000	1.000	
0248	614.2620	MGS Guardrail Terminal Type 2	EACH	1.000	1.000	
0250	616.0100	Fence Woven Wire (height) 0001. 4-ft	LF	4,190.000	4,190.000	
0252	616.0700.S	Fence Safety	LF	2,000.000	2,000.000	
0254	619.1000	Mobilization	EACH	1.000	0.950	0.050
0256	620.0100	Concrete Corrugated Median	SF	1,698.000	1,698.000	
0258	620.0300	Concrete Median Sloped Nose	SF	4,680.000	4,680.000	
0260	623.0200	Dust Control Surface Treatment	SY	64,873.000	64,873.000	
0262	624.0100	Water	MGAL	5,795.000	5,795.000	
0264	625.0500	Salvaged Topsoil	SY	88,420.000	88,420.000	
0266	628.1104	Erosion Bales	EACH	600.000	600.000	
0268	628.1504	Silt Fence	LF	3,822.000	3,822.000	
0270	628.1520	Silt Fence Maintenance	LF	1,913.000	1,913.000	
0272	628.1905	Mobilizations Erosion Control	EACH	21.000	19.000	2.000
0274	628.1910	Mobilizations Emergency Erosion Control	EACH	13.000	12.000	1.000

					1033-02-71	1033-02-76
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0276	628.2004	Erosion Mat Class I Type B	SY	88,613.000	88,613.000	
0278	628.6510	Soil Stabilizer Type B	ACRE	2.000	2.000	
0280	628.7005	Inlet Protection Type A	EACH	175.000	175.000	
0282	628.7010	Inlet Protection Type B	EACH	3.000	3.000	
0284	628.7015	Inlet Protection Type C	EACH	217.000	189.000	28.000
0286	628.7020	Inlet Protection Type D	EACH	30.000	30.000	
0288	628.7504	Temporary Ditch Checks	LF	658.000	658.000	
0290	628.7555	Culvert Pipe Checks	EACH	14.000	14.000	
0292	628.7560	Tracking Pads	EACH	8.000	8.000	
0294	628.7570	Rock Bags	EACH	160.000	160.000	
0296	629.0210	Fertilizer Type B	CWT	70.000	70.000	
0298	630.0120	Seeding Mixture No. 20	LB	2,396.000	2,396.000	
0300	630.0200	Seeding Temporary	LB	1,205.000	1,205.000	
0302	630.0500	Seed Water	MGAL	1,004.000	1,004.000	
0304	633.0100	Delineator Posts Steel	EACH	33.000	33.000	
0306	633.0500	Delineator Reflectors	EACH	33.000	33.000	
0308	633.1000	Delineators Barrier Wall	EACH	12.000	12.000	
0310	633.5200	Markers Culvert End	EACH	18.000	18.000	
0312	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	329.000	329.000	
0314	634.0622	Posts Wood 4x6-Inch X 22-FT	EACH	22.000	22.000	
0316	634.0816	Posts Tubular Steel 2x2-Inch X 16-FT	EACH	20.000	20.000	
0318	637.1220	Signs Type I Reflective SH	SF	831.500	831.500	
0320	637.1230	Signs Type I Reflective F	SF	20.000	20.000	
0322	637.2210	Signs Type II Reflective H	SF	3,133.710	3,133.710	
0324	637.2215	Signs Type II Reflective H Folding	SF	427.920	427.920	
0326	637.2230	Signs Type II Reflective F	SF	288.500	288.500	
0328	638.2101	Moving Signs Type I	EACH	1.000	1.000	
0330	638.2102	Moving Signs Type II	EACH	47.000	47.000	
0332	638.2602	Removing Signs Type II	EACH	254.000	254.000	
0334	638.3000	Removing Small Sign Supports	EACH	265.000	265.000	
0336	641.8100	Overhead Sign Support (structure) 0001. S-51-227	LS	1.000	1.000	
0338	641.8100	Overhead Sign Support (structure) 0002. S-51-228	LS	1.000	1.000	
0340	641.8100	Overhead Sign Support (structure) 0003. S-51-229	LS	1.000	1.000	
0342	641.8100	Overhead Sign Support (structure) 0004. S-51-259	LS	1.000	1.000	
0344	641.8100	Overhead Sign Support (structure) 0005. S-51-230	LS	1.000	1.000	
0346	641.8100	Overhead Sign Support (structure) 0006. S-51-249	LS	1.000	1.000	
0348	641.8100	Overhead Sign Support (structure) 0007. S-51-250	LS	1.000	1.000	
0350	641.8100	Overhead Sign Support (structure) 0008. S-51-260	LS	1.000	1.000	
0352	641.8100	Overhead Sign Support (structure) 0009. S-51-261	LS	1.000	1.000	
0354	643.0300	Traffic Control Drums	DAY	314,402.000	310,112.000	4,290.000

					1033-02-71	1033-02-76
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0356	643.0420	Traffic Control Barricades Type III	DAY	7,645.000	7,513.000	132.000
0358	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	672.000	672.000	
0360	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	622.000	622.000	
0362	643.0705	Traffic Control Warning Lights Type A	DAY	15,318.000	15,054.000	264.000
0364	643.0715	Traffic Control Warning Lights Type C	DAY	33,971.000	33,311.000	660.000
0366	643.0800	Traffic Control Arrow Boards	DAY	1,063.000	997.000	66.000
0368	643.0900	Traffic Control Signs	DAY	80,602.000	79,942.000	660.000
0370	643.1000	Traffic Control Signs Fixed Message	SF	192.000	192.000	
0372	643.1050	Traffic Control Signs PCMS	DAY	99.000	99.000	
0374	643.1051	Traffic Control Signs PCMS with Cellular Communications	DAY	2,244.000	2,244.000	
0376	643.1200.S	Portable Automated Real-Time Traffic Queue Warning System	DAY	370.000	370.000	
0378	643.5000	Traffic Control 0001. 1033-02-71	EACH	1.000	1.000	
0380	645.0111	Geotextile Type DF Schedule A	SY	8,417.000	8,417.000	
0382	645.0120	Geotextile Type HR	SY	252.000	252.000	
0384	645.0135	Geotextile Type SR	SY	20,000.000	20,000.000	
0386	646.1020	Marking Line Epoxy 4-Inch	LF	51,427.000	50,482.000	945.000
0388	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	10,594.000	10,594.000	
0390	646.1555	Marking Line Grooved Contrast Permanent Tape 4-Inch	LF	762.000	762.000	
0392	646.3020	Marking Line Epoxy 8-Inch	LF	2,124.000	1,463.000	661.000
0394	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	17,396.000	17,387.000	9.000
0396	646.3555	Marking Line Grooved Contrast Permanent Tape 8-Inch	LF	1,821.000	1,821.000	
0398	646.5020	Marking Arrow Epoxy	EACH	34.000	28.000	6.000
0400	646.5120	Marking Word Epoxy	EACH	15.000	12.000	3.000
0402	646.6120	Marking Stop Line Epoxy 18-Inch	LF	1,243.000	1,217.000	26.000
0404	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	3.000	3.000	
0406	646.7120	Marking Diagonal Epoxy 12-Inch	LF	1,411.000	1,411.000	
0408	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	950.000	950.000	
0410	646.8020	Marking Corrugated Median Epoxy	SF	660.000	660.000	
0412	646.8120	Marking Curb Epoxy	LF	1,365.000	1,365.000	
0414	646.8220	Marking Island Nose Epoxy	EACH	53.000	53.000	
0416	646.9010	Marking Removal Line Water Blasting 4-Inch	LF	16,388.000	16,388.000	
0418	646.9110	Marking Removal Line Water Blasting 8-Inch	LF	3,051.000	3,051.000	
0420	646.9210	Marking Removal Line Water Blasting Wide	LF	853.000	853.000	
0422	646.9310	Marking Removal Special Marking Water Blasting	EACH	24.000	24.000	
0424	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	182,117.000	182,117.000	
0426	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	38,381.000	37,341.000	1,040.000
0428	649.0220	Temporary Marking Line Epoxy 8-Inch	LF	9,046.000	9,046.000	
0430	649.0250	Temporary Marking Line Removable Tape 8-Inch	LF	8,367.000	8,064.000	303.000

					1033-02-71	1033-02-76
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0432	649.0520	Temporary Marking Arrow Epoxy	EACH	35.000	35.000	
0434	649.0760	Temporary Marking Raised Pavement Marker Type I	EACH	404.000	404.000	
0436	649.0820	Temporary Marking Stop Line Epoxy 18-Inch	LF	1,454.000	1,454.000	
0438	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	1,075.000	1,060.000	15.000
0440	649.0920	Temporary Marking Diagonal Epoxy 12-Inch	LF	378.000	378.000	
0442	649.0950	Temporary Marking Diagonal Removable Tape 12-Inch	LF	437.000	437.000	
0444	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	9,132.000	9,132.000	
0446	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	12,884.000	12,884.000	
0448	652.0700.S	Install Conduit into Existing Item	EACH	4.000	4.000	
0450	652.0800	Conduit Loop Detector	LF	13,040.000	13,040.000	
0452	653.0135	Pull Boxes Steel 24x36-Inch	EACH	44.000	44.000	
0454	653.0140	Pull Boxes Steel 24x42-Inch	EACH	93.000	93.000	
0456	653.0154	Pull Boxes Non-Conductive 24x36-Inch	EACH	15.000	15.000	
0458	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	12.000	12.000	
0460	653.0905	Removing Pull Boxes	EACH	77.000	77.000	
0462	654.0101	Concrete Bases Type 1	EACH	37.000	37.000	
0464	654.0102	Concrete Bases Type 2	EACH	6.000	6.000	
0466	654.0107	Concrete Bases Type 7	EACH	21.000	21.000	
0468	654.0110	Concrete Bases Type 10	EACH	7.000	7.000	
0470	654.0113	Concrete Bases Type 13	EACH	6.000	6.000	
0472	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	4.000	4.000	
0474	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000	
0476	655.0210	Cable Traffic Signal 3-14 AWG	LF	7,638.000	7,638.000	
0478	655.0230	Cable Traffic Signal 5-14 AWG	LF	5,188.000	5,188.000	
0480	655.0235	Cable Traffic Signal 7-12 AWG	LF	1,446.000	1,446.000	
0482	655.0240	Cable Traffic Signal 7-14 AWG	LF	10,006.000	10,006.000	
0484	655.0255	Cable Traffic Signal 12-12 AWG	LF	1,380.000	1,380.000	
0486	655.0260	Cable Traffic Signal 12-14 AWG	LF	10,608.000	10,608.000	
0488	655.0265	Cable Traffic Signal 15-12 AWG	LF	628.000	628.000	
0490	655.0270	Cable Traffic Signal 15-14 AWG	LF	2,589.000	2,589.000	
0492	655.0320	Cable Type UF 2-10 AWG Grounded	LF	6,338.000	6,338.000	
0494	655.0325	Cable Type UF 2-8 AWG Grounded	LF	314.000	314.000	
0496	655.0510	Electrical Wire Traffic Signals 12 AWG	LF	8,777.000	8,777.000	
0498	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	19,663.000	19,663.000	
0500	655.0520	Electrical Wire Traffic Signals 8 AWG	LF	628.000	628.000	
0502	655.0610	Electrical Wire Lighting 12 AWG	LF	10,866.000	10,866.000	
0504	655.0620	Electrical Wire Lighting 8 AWG	LF	13,885.000	13,885.000	
0506	655.0625	Electrical Wire Lighting 6 AWG	LF	3,650.000	3,650.000	
0508	655.0640	Electrical Wire Lighting 1 AWG	LF	18.000	18.000	
0510	655.0700	Loop Detector Lead In Cable	LF	57,545.000	57,545.000	

					1033-02-71	1033-02-76
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0512	655.0800	Loop Detector Wire	LF	48,234.000	48,234.000	
0514	655.0900	Traffic Signal EVP Detector Cable	LF	7,638.000	7,638.000	
0516	656.0200	Electrical Service Meter Breaker Pedestal (location) 3001. STH 20 & W Frontage Rd	LS	1.000	1.000	
0518	656.0200	Electrical Service Meter Breaker Pedestal (location) 3002. IH-94 Ramps & STH 20	LS	1.000	1.000	
0520	656.0200	Electrical Service Meter Breaker Pedestal (location) 3003. STH 20 & E Frontage Rd	LS	1.000	1.000	
0522	656.0200	Electrical Service Meter Breaker Pedestal (location) 3004. STH 20 & Red Cloud Drive	LS	1.000	1.000	
0524	656.0400	Electrical Service Main Lugs Only Meter Pedestal (location) 0001. HL-51-RZ	LS	1.000	1.000	
0526	657.0100	Pedestal Bases	EACH	46.000	46.000	
0528	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	6.000	6.000	
0530	657.0310	Poles Type 3	EACH	6.000	6.000	
0532	657.0330	Poles Type 7	EACH	21.000	21.000	
0534	657.0405	Traffic Signal Standards Aluminum 3.5-FT	EACH	1.000	1.000	
0536	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	26.000	26.000	
0538	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	16.000	16.000	
0540	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	3.000	3.000	
0542	657.0609	Luminaire Arms Single Member 4-Inch Clamp 6-FT	EACH	11.000	11.000	
0544	657.0630	Luminaire Arms Single Member 6-Inch Clamp 8-FT	EACH	13.000	13.000	
0546	657.0635	Luminaire Arms Single Member 6-Inch Clamp 10-FT	EACH	16.000	16.000	
0548	658.0173	Traffic Signal Face 3S 12-Inch	EACH	116.000	116.000	
0550	658.0174	Traffic Signal Face 4S 12-Inch	EACH	29.000	29.000	
0552	658.0416	Pedestrian Signal Face 16-Inch	EACH	14.000	14.000	
0554	658.0500	Pedestrian Push Buttons	EACH	15.000	15.000	
0556	658.5069	Signal Mounting Hardware (location) 3001. STH 20 & W Frontage Rd	LS	1.000	1.000	
0558	658.5069	Signal Mounting Hardware (location) 3002. IH-94 Ramps & STH 20	LS	1.000	1.000	
0560	658.5069	Signal Mounting Hardware (location) 3003. STH 20 & E Frontage Rd	LS	1.000	1.000	
0562	658.5069	Signal Mounting Hardware (location) 3004. STH 20 & Red Cloud Drive	LS	1.000	1.000	
0564	658.5069	Signal Mounting Hardware (location) 3005. STH 20 & CTH H/Renaissance Blvd	LS	1.000	1.000	
0566	659.1125	Luminaires Utility LED C	EACH	76.000	76.000	
0568	661.0200	Temporary Traffic Signals for Intersections (location) 3001. STH 20 & W Frontage Rd	LS	1.000	1.000	
0570	661.0200	Temporary Traffic Signals for Intersections (location) 3002. IH-94 EB Ramps & STH 20	LS	1.000	1.000	

					1033-02-71	1033-02-76
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0572	661.0200	Temporary Traffic Signals for Intersections (location) 3003. IH-94 WB Ramps & STH 20	LS	1.000	1.000	
0574	661.0200	Temporary Traffic Signals for Intersections (location) 3004. STH 20 & E Frontage Rd	LS	1.000	1.000	
0576	661.0200	Temporary Traffic Signals for Intersections (location) 3005. STH 20 & CTH H/Renaissance Blvd	LS	1.000	1.000	
0578	662.6030.S	Ramp Closure Barricade Rack 3-Unit	EACH	2.000	2.000	
0580	670.0100	Field System Integrator 0001. 1033-02-71 Lighting	LS	1.000	1.000	
0582	670.0100	Field System Integrator 3001. 1033-02-71 Signals	LS	1.000	1.000	
0584	670.0200	ITS Documentation 0001. 1033-02-71 Lighting	LS	1.000	1.000	
0586	670.0200	ITS Documentation 3001. 1033-02-71 Signals	LS	1.000	1.000	
0588	671.0122	Conduit HDPE 2-Duct 2-Inch	LF	1,855.000	1,855.000	
0590	671.0132	Conduit HDPE 3-Duct 2-Inch	LF	6,095.000	6,095.000	
0592	671.0232	Conduit HDPE Directional Bore 3-Duct 2-Inch	LF	205.000	205.000	
0594	673.0105	Communication Vault Type 1	EACH	7.000	7.000	
0596	673.0200	Tracer Wire Marker Posts	EACH	1.000	1.000	
0598	674.0300	Remove Cable	LF	1,860.000	1,860.000	
0600	674.0400	Reinstall Cable	LF	110.000	110.000	
0602	678.0036	Install Fiber Optic Cable Outdoor Plant 36-CT	LF	13,284.000	13,284.000	
0604	678.0200	Fiber Optic Splice Enclosure	EACH	6.000	6.000	
0606	678.0300	Fiber Optic Splice	EACH	96.000	96.000	
0608	678.0500	Communication System Testing 0001. 1033-02-71 Lighting	LS	1.000	1.000	
0610	678.0500	Communication System Testing 3001. 1033-02-71 Signals	LS	1.000	1.000	
0612	678.0600	Install Ethernet Switches	EACH	5.000	5.000	
0614	690.0150	Sawing Asphalt	LF	9,597.000	9,597.000	
0616	690.0250	Sawing Concrete	LF	10,662.000	10,662.000	
0618	715.0415	Incentive Strength Concrete Pavement	DOL	34,078.000	34,078.000	
0620	715.0710	Optimized Aggregate Gradation Incentive	DOL	122,150.000	122,150.000	
0622	740.0440	Incentive IRI Ride	DOL	17,207.000	17,207.000	
0624	SPV.0035	Special 0001. EBS Excavation	CY	27,202.000	27,202.000	
0626	SPV.0035	Special 0002. EBS Backfill	CY	27,202.000	27,202.000	
0628	SPV.0035	Special 0003. Roadway Embankment	CY	22,863.000	22,863.000	
0630	SPV.0035	Special 0004. Backfill Slurry	CY	500.000	500.000	
0632	SPV.0060	Special 0001. Manholes 9-FT Diameter	EACH	5.000	5.000	
0634	SPV.0060	Special 0002. Manholes 10-FT Diameter	EACH	2.000	2.000	
0636	SPV.0060	Special 0003. Exposing Existing Infrastructure Unpaved Area	EACH	4.000	4.000	
0638	SPV.0060	Special 0004. Exposing Existing Infrastructure Paved Area	EACH	4.000	4.000	

					1033-02-71	1033-02-76
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0640	SPV.0060	Special 0005. Baseline CPM Progress Schedule	EACH	1.000	0.950	0.050
0642	SPV.0060	Special 0006. Monthly CPM Progress Schedule Updates 1033-02-71	EACH	10.000	10.000	
0644	SPV.0060	Special 0007. Monthly CPM Progress Schedule Updates 1033-02-76	EACH	2.000		2.000
0646	SPV.0060	Special 0008. Marking Contrast Epoxy Special Marking Arrow	EACH	73.000	73.000	
0648	SPV.0060	Special 0009. Marking Contrast Epoxy Special Marking Word	EACH	32.000	32.000	
0650	SPV.0060	Special 0010. Reconnect Storm Sewer	EACH	2.000	2.000	
0652	SPV.0060	Special 0029. Permanent Barricades Type III	EACH	12.000	12.000	
0654	SPV.0060	Special 0034. Mobilizations Emergency Pavement Repair	EACH	5.000	5.000	
0656	SPV.0060	Special 1000. Distribution Center Salvaged	EACH	1.000	1.000	
0658	SPV.0060	Special 3001. Pull Box Rims & Covers	EACH	15.000	15.000	
0660	SPV.0060	Special 3002. Removing Pull Box Rims & Covers	EACH	15.000	15.000	
0662	SPV.0060	Special 3003. Concrete Control Cabinet Base Type 9 Special Modified	EACH	1.000	1.000	
0664	SPV.0060	Special 3004. Install Poles Type 10	EACH	7.000	7.000	
0666	SPV.0060	Special 3005. Install Poles Type 9 Special	EACH	3.000	3.000	
0668	SPV.0060	Special 3006. Install Poles Type 10 Special	EACH	9.000	9.000	
0670	SPV.0060	Special 3007. Install Poles Type 12	EACH	1.000	1.000	
0672	SPV.0060	Special 3008. Install Poles Type 13	EACH	5.000	5.000	
0674	SPV.0060	Special 3009. Install Monotube Arms 20-FT	EACH	2.000	2.000	
0676	SPV.0060	Special 3010. Install Monotube Arms 25-FT	EACH	2.000	2.000	
0678	SPV.0060	Special 3011. Install Monotube Arms 30-FT	EACH	3.000	3.000	
0680	SPV.0060	Special 3012. Install Monotube Arms 35-FT Type 9/10 Spec Pole	EACH	6.000	6.000	
0682	SPV.0060	Special 3013. Install Monotube Arms 45-FT Type 9/10 Spec Pole	EACH	6.000	6.000	
0684	SPV.0060	Special 3014. Install Monotube Arms 50-FT	EACH	1.000	1.000	
0686	SPV.0060	Special 3015. Install Monotube Arms 55-FT	EACH	5.000	5.000	
0688	SPV.0060	Special 3016. Install Luminaire Arms Steel 15-FT	EACH	36.000	36.000	
0690	SPV.0060	Special 3017. Concrete Bases Type 10 Special	EACH	12.000	12.000	
0692	SPV.0060	Special 3018. Bicycle Signal Face 3S 12-Inch	EACH	1.000	1.000	
0694	SPV.0060	Special 5000. Adjusting Sanitary Manhole Mt. Pleasant	EACH	1.000	1.000	
0696	SPV.0060	Special 5001. Reconstructing Sanitary Manhole Mt. Pleasant	EACH	4.000	4.000	
0698	SPV.0060	Special 5002. Adjusting Sanitary Manhole Yorkville	EACH	4.000	4.000	
0700	SPV.0060	Special 5003. Reconstructing Sanitary Manhole Yorkville	EACH	3.000	3.000	
0702	SPV.0060	Special 5004. Adjusting Water Valves	EACH	10.000	10.000	

					1033-02-71	1033-02-76
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0704	SPV.0060	Special 5005. Hydrant Assembly Adjustment	EACH	3.000	3.000	
0706	SPV.0060	Special 5006. Hydrant Assembly Relocation	EACH	2.000	2.000	
0708	SPV.0075	Special 0001. Pavement Cleanup Project 1033-02-71	HRS	400.000	400.000	
0710	SPV.0075	Special 0002. Pavement Cleanup Project 1033-02-76	HRS	20.000		20.000
0712	SPV.0090	Special 0001. Concrete Curb & Gutter 4-Inch Sloped 60-Inch Type A	LF	306.000	306.000	
0714	SPV.0090	Special 0002. Concrete Curb & Gutter 6-Inch Sloped 24-Inch Type A	LF	1,083.000	1,083.000	
0716	SPV.0090	Special 0003. Maintain and Remove Concrete Barrier Temporary Precast	LF	361.000	361.000	
0718	SPV.0090	Special 0004. Drain Slotted Vane Longitudinal Temporary	LF	523.000	523.000	
0720	SPV.0090	Special 2000. Adjust Conduit	LF	25.000	25.000	
0722	SPV.0090	Special 3001. Fiber Optic Warning Tape	LF	7,515.000	7,515.000	
0724	SPV.0105	Special 0001. Survey Project 1033-02-71	LS	1.000	1.000	
0726	SPV.0105	Special 0002. Survey Project 1033-02-76	LS	1.000		1.000
0728	SPV.0105	Special 1000. Lighting System Integrator	LS	1.000	1.000	
0730	SPV.0105	Special 1001. Lighting System Survey	LS	1.000	1.000	
0732	SPV.0105	Special 2000. Temporary CCTV Power	LS	1.000	1.000	
0734	SPV.0105	Special 3001. Trnspt & Install State Furn Traffic Signal Cabinet STH 20 & W Frontage Rd	LS	1.000	1.000	
0736	SPV.0105	Special 3002. Trnspt & Install State Furn Traf Signal Cabinet IH-94 Ramps & STH 20 (CB1)	LS	1.000	1.000	
0738	SPV.0105	Special 3003. Trnspt & Install State Furn Traf Signal Cabinet IH-94 Ramps & STH 20 (CB2)	LS	1.000	1.000	
0740	SPV.0105	Special 3004. Trnspt & Install State Furn Traffic Signal Cabinet STH 20 & E Frontage Rd	LS	1.000	1.000	
0742	SPV.0105	Special 3005. Trspt and Install State Furn Traffic Signal Cabinet STH 20 & Red Cloud Dr	LS	1.000	1.000	
0744	SPV.0105	Special 3006. Trnspt Traf Signal & Intersection Lighting Material STH 20 & W Frontage Rd	LS	1.000	1.000	
0746	SPV.0105	Special 3007. Trnspt Traf Signal & Intersection Lighting Material IH-94 Ramps & STH 20	LS	1.000	1.000	
0748	SPV.0105	Special 3008. Trnspt Traf Signal & Intersection Lighting Material STH 20 & E Frontage Rd	LS	1.000	1.000	
0750	SPV.0105	Special 3009. Trnspt Traf Signal & Intersection Lighting Materials STH 20 & Red Cloud Dr	LS	1.000	1.000	
0752	SPV.0105	Special 3010. Trnspt Traf Signal & Intersection Lighting Material STH 20 & CTH H	LS	1.000	1.000	
0754	SPV.0105	Special 3011. Trnspt & Install State Furn EVP Det Head & Conf Light STH 20 & W Frontage	LS	1.000	1.000	
0756	SPV.0105	Special 3012. Trnspt & Install State Furn EVP Det Head & Conf Light IH 94 Ramps & STH 20	LS	1.000	1.000	

					1033-02-71	1033-02-76
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0758	SPV.0105	Special 3013. Trnspt & Install State Furn EVP Det Head & Conf Light STH 20 & E Frontage	LS	1.000	1.000	
0760	SPV.0105	Special 3014. Trnspt & Install State Furn EVP Det Head & Conf Light STH 20 & Red Cloud	LS	1.000	1.000	
0762	SPV.0105	Special 3015. Trnspt & Install State Furn EVP Det Head & Conf Light STH 20 & CTH H	LS	1.000	1.000	
0764	SPV.0105	Special 3016. Temporary Infrared EVP System STH 20 & CTH H/Renaissance Blvd	LS	1.000	1.000	
0766	SPV.0105	Special 3017. Trnspt and Install State Furn Radar Detection System STH 20 & Red Cloud Dr	LS	1.000	1.000	
0768	SPV.0105	Special 3018. Trnspt & Install State Furn Fiber Optic Cable Pigtail 8-CT CB1 (S51-0728)	LS	1.000	1.000	
0770	SPV.0105	Special 3019. Trnspt & Install State Furn Fiber Optic Cable Pigtail 8-CT CB1 (S51-0324)	LS	1.000	1.000	
0772	SPV.0105	Special 3020. Trnspt & Install State Furn Fiber Optic Cable Pigtail 8-CT CB1 (S51-0727)	LS	1.000	1.000	
0774	SPV.0105	Special 3021. Trnspt & Install State Furn Fiber Optic Cable Pigtail 8-CT CB1 (S51-1478)	LS	1.000	1.000	
0776	SPV.0135	Special 0001. Field Office Special	MON	10.000	10.000	
0778	SPV.0170	Special 0001. Removal and Disposal of Invasive Plant Species	STA	3.000	3.000	
0780	SPV.0195	Special 0001. Soil Drying Treatment	TON	130.000	130.000	
0782	SPV.0195	Special 0002. Subgrade Strengthening Treatment	TON	1,552.000	1,552.000	

CLEARING AND GRUBBING

CATEGORY	ROADWAY	STATION	TO	STATION	OFFSET	201.0105 CLEARING STA	201.0205 GRUBBING STA	201.0120 CLEARING ID	201.0220 GRUBBING ID
	PROJECT ID 1033-02-71								
1000	STH 20								
		285+00	-	287+00	RT	2	2	--	--
			290+63		RT	--	--	12	12
			290+76		RT	--	--	9	9
			290+94		RT	--	--	12	12
			301+19		LT	--	--	11	11
		322+00	-	324+00	LT	2	2	--	--
		323+00	-	328+00	RT	5	5	--	--
		329+00	-	333+00	RT	4	4	--	--
	RAMP SW								
		861SW+00	-	862SW+00	RT	1	1	--	--
			862SW+05		LT	--	--	18	18
	RAMP SE								
		859SE+00	-	861SE+00	RT	2	2	--	--
	RAMP NE								
		862SE+00	-	863SE+00	LT	1	1	--	--
	WEST FRONTAGE ROAD SOUTH								
		2860+65			RT	--	--	6	6
	WEST FRONTAGE ROAD NORTH								
		4865+59			LT	--	--	6	6
		4866+29			LT	--	--	12	12
		4866+67			LT	--	--	11	11
		4867+05			LT	--	--	13	13
		4867+43			LT	--	--	11	11
		4867+80			LT	--	--	9	9
		4866+00	-	4868+00	RT	2	2	--	--
	EAST FRONTAGE ROAD SOUTH								
		3853+64			RT	--	--	12	12
		3854+06			RT	--	--	12	12
		3854+61			RT	--	--	8	8
		3856+00	-	3858+00	RT	2	2	--	--
	EAST FRONTAGE ROAD NORTH								
		5860+51			LT	--	--	9	9
		5861+12			LT	--	--	13	13
		5861+64			LT	--	--	13	13
		5862+39			LT	--	--	11	11
	CONTRACT TOTAL					21	21	208	208

REMOVING PAVEMENT

CATEGORY	ROADWAY	STATION	TO	STATION	204.0100 SY
	PROJECT ID 1033-02-71				
1000	STH 20				
		265+07	-	285+50	16,718
		285+50	-	290+00	5,691
		290+00	-	294+50	4,259
		294+50	-	300+00	4,573
		300+00	-	305+00	5,040
		305+00	-	330+30	16,493
	RAMP SW				
		861SW+36	-	862SW+88	346
	RAMP NW				
		863NW+85	-	864NW+85	277
	RAMP SE				
		860SE+39	-	861SE+07	409
	RAMP NE				
		861NE+60	-	862NE+62	665
	WEST FRONTAGE ROAD SOUTH				
		2859+98	-	2864+49	980
	WEST FRONTAGE ROAD NORTH				
		4864+79	-	4867+44	550
	EAST FRONTAGE ROAD SOUTH				
		3852+84	-	3858+36	2,297
	EAST FRONTAGE ROAD NORTH				
		5859+45	-	5861+84	2,081
	CATEGORY 1000 SUBTOTAL				60,379
6000	RAMP NW				
		868NW+51	-	872NW+53	451
	CATEGORY 6000 SUBTOTAL				451
	CONTRACT TOTAL				60,830

REMOVING CURB & GUTTER

CATEGORY	ROADWAY	STATION	TO	STATION	OFFSET	204.0150 LF
	PROJECT ID 1033-02-71					
1000	STH 20					
		260+63	-	262+66	LT/RT	204
		263+22	-	265+07	LT/RT	372
		271+51	-	278+25	RT	678
		278+91	-	282+36	RT	357
		283+11	-	283+97	RT	88
		286+37	-	286+77	RT	82
		286+94	-	287+16	RT	63
		287+68	-	287+94	RT	92
		287+85	-	292+31	LT/RT	537
		289+70	-	289+80	RT	10
		293+09	-	293+60	RT	51
		296+51	-	297+06	RT	56
		297+37	-	301+97	RT	459
	RAMP SW					
		861SW+89	-	862SW+19	RT	30
		862SW+19	-	862SW+25	LT	6
		862SW+27	-	862SW+92	RT	237
	RAMP NW					
		863NW+81	-	864NW+31	RT	50
	RAMP SE					
		855SE+90	-	857SE+25	LT	136
		860SE+55	-	860SE+94	LT/RT	96
		860SE+77	-	860SE+89	LT/RT	46
		861SE+45	-	861SE+53	LT	10
	WEST FRONTAGE ROAD SOUTH					
		2858+94	-	2858+96	RT	13
		2859+39	-	2859+50	RT	30
		2861+03	-	2861+05	LT	15
		2861+37	-	2861+40	LT	18
		2861+91	-	2863+03	LT	237
	WEST FRONTAGE ROAD NORTH					
		4865+08	-	48+36	LT	30
		4866+71	-	4866+78	RT	15
		4867+18	-	4867+28	RT	47
		4868+00	-	4868+06	LT	6
		4868+00	-	4868+06	RT	6

REMOVING CURB & GUTTER (CONTINUED)

CATEGORY	ROADWAY	STATION	TO	STATION	OFFSET	204.0150 LF
1000	**PROJECT ID 1033-02-71**					
	EAST FRONTAGE ROAD SOUTH					
		3849+39	-	3850+94	LT	312
		3851+72	-	3852+89	LT	243
		3852+99	-	3853+07	LT	8
		3853+62	-	3855+62	RT	199
		3853+83	-	3855+56	LT	181
		3853+84	-	3855+02	LT	119
		3855+02	-	3855+56	LT	57
		3856+10	-	3858+16	RT	219
		3856+49	-	3858+14	LT	347
		3857+53	-	3858+34	LT	113
		3858+16	-	3858+34	RT	43
	EAST FRONTAGE ROAD NORTH					
		5861+32	-	5861+82	LT	54
		5861+73	-	5861+86	LT	23
		5861+84	-	5861+86	RT	21
		5862+16	-	5862+20	LT	15
		5862+23	-	5862+25	RT	21
		5862+33	-	5863+13	LT/RT	97
		5862+33	-	5862+58	LT/RT	28
		5862+58	-	5863+11	RT	53
		5862+61			LT	5
		5862+97	-	5863+16	LT/RT	52
	CATEGORY 1000 SUBTOTAL					6,287
6000	IH 94 SB					
		871+45	-	873+54	LT	210
	RAMP NW					
		872NW+53	-	873NW+56	RT	103
	CATEGORY 6000 SUBTOTAL					313
	CONTRACT TOTAL					6,600

REMOVING ASPHALTIC SURFACE MILLING

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	204.0125 SY
		PROJECT ID 1033-02-71				
1000	1A	STH 20				
			111+75	-	135+58	1,086
		PROJECT ID 1033-02-71 TOTAL				1,086
		PROJECT ID 1033-02-76				
1000	1A	INTERNATIONAL DRIVE				
			111+75	-	135+58	15,062
		PROJECT ID 1033-02-76 TOTAL				15,062
		CONTRACT TOTAL				16,148

REMOVING CONCRETE SIDEWALK

CATEGORY	ROADWAY	STATION	TO	STATION	OFFSET	204.0155 SY
	PROJECT ID 1033-02-71					
1000	RAMP SW					
		862SW+27	-	862SW+91	LT	149
	RAMP NW					
		863NW+78	-	864NW+31	LT/RT	70
	WEST FRONTAGE ROAD					
		4866+60	-	4867+15	RT	88
	CONTRACT TOTAL					307

REMOVING MANHOLES

CATEGORY	ROADWAY	STATION	OFFSET	204.0210 EACH
	PROJECT ID 1033-02-71			
1000	STH 20			
		284+77	C/L	1
		285+78	1'RT	1
		292+85	3'RT	1
		296+22	1'RT	1
	CONTRACT TOTAL			4

REMOVING SMALL PIPE CULVETS

CATEGORY	ROADWAY	STATION	OFFSET	DESCRIPTION	203.0100 EACH
	PROJECT ID 1033-02-71				
1000	STH 20				
		273+90	76'RT	18" X 30' CMCP	1
		278+54	89'RT	36" X 53' RCCP	1
		278+64	89'LT	48" X 61' CMCP	1
		279+16	105'RT	24" X 27' CMCP	1
		279+41	4'LT	42" X 158' RCCP	1
		282+76	74'RT	18" X 58' CMCP	1
		282+98	82'LT	15" X 31' CMCP	1
		292+84	C/L	24" X 175' RCCP	1
		298+93	72'RT	24" X 113' CMCP	1
		300+14	104'RT	18" X 34' CMCP	1
		314+43	92'RT	24" X 48' CMCP	1
		314+50	C/L	18" X 70' RCCP	1
		314+50	1'RT	18" X 65' RCCP	1
		314+50	78'LT	18" X 58' RCCP	1
	WEST FRONTAGE ROAD SOUTH				
		2859+16	28'RT	18" X 114' CMCP	1
		2860+32	21'RT	18" X 40' CMCP	1
		2861+03	65'LT	18" X 89' CMCP	1
		2862+28	66'LT	18" X 20' CMCP	1
		2862+41	16'RT	18" X 115' CMCP	1
	WEST FRONTAGE ROAD NORTH				
		4867+10	29'RT	24" X 152' CMCP	1
	CONTRACT TOTAL				20

REMOVING SURFACE DRAINS

CATEGORY	ROADWAY	STATION	OFFSET	204.0190 EACH
	PROJECT ID 1033-02-71			
1000	STH 20			
		272+37	68' RT	1
	RAMP SW			
		858SW+57	15' RT	1
	RAMP SE			
		855SE+90	18' LT	1
		857SE+25	24' RT	1
	CONTRACT TOTAL			4

REMOVING INLETS

CATEGORY	ROADWAY	STATION	OFFSET	204.0220 EACH
	PROJECT ID 1033-02-71			
1000	STH 20			
		265+73	56'RT	1
		265+73	4'RT	1
		265+73	10'LT	1
		268+84	60'RT	1
		268+84	C/L	1
		268+84	21'LT	1
		270+42	22'LT	1
		270+43	2'LT	1
		272+29	63'RT	1
		272+96	24'RT	1
		272+96	C/L	1
		272+96	23'LT	1
		277+97	23'LT	1
		277+98	C/L	1
		277+99	23'RT	1
		279+03	6'RT	1
		279+27	8'RT	1
		279+29	24'RT	1
		279+68	100'LT	1
		283+47	19'RT	1
		283+48	24'LT	1
		283+49	C/L	1
		284+87	16'RT	1
		284+87	24'RT	1
		285+27	1'RT	1
		285+77	25'LT	1
		286+22	25'LT	1
		286+24	7'LT	1
		286+24	8'RT	1
		286+97	58'RT	1
		287+95	24'LT	1
		288+99	85'RT	1
		289+06	24'RT	1
		289+07	7'RT	1
		289+07	8'LT	1
		290+21	19'LT	1
		291+25	14'LT	1
		291+26	C/L	1
		292+31	5'RT	1
		292+39	55'RT	1

REMOVING INLETS (CONTINUED)

CATEGORY	ROADWAY	STATION	OFFSET	204.0220 EACH
	PROJECT ID 1033-02-71			
1000	STH 20			
		293+40	14'RT	1
		293+45	13'LT	1
		295+47	15'RT	1
		295+72	3'LT	1
		299+26	1'RT	1
		318+47	C/L	1
	SUBTOTAL			46
1000	RAMP NW			
		864NW+28	9'RT	1
		866NW+01	33'RT	1
	RAMP SE			
		860SE+34	74'LT	1
		860SE+70	10'RT	1
	RAMP NE			
		861NE+89	27'RT	1
		862NE+82	106'LT	1
	WEST FRONTAGE ROAD SOUTH			
		2858+19	34'RT	1
		2858+24	34'RT	1
		2861+79	66'LT	1
		2862+60	29'LT	1
		2864+41	44'RT	1
	EAST FRONTAGE ROAD NORTH			
		5859+60	8'RT	1
		5859+67	65'RT	1
	SUBTOAL			13
	CONTRACT TOTAL			59

REMOVING STORM SEWER

CATEGORY	ROADWAY	STATION	TO	STATION	OFFSET	204.0245.0004 12-INCH LF	204.0245.0006 15-INCH LF	204.0245.0008 18-INCH LF	204.0245.0010 24-INCH LF	204.0245.0012 30-INCH LF	204.0245.0016 36-INCH LF
	PROJECT ID 1033-02-71										
1000	STH 20										
		265+64	-	265+73	RT	--	--	5	--	--	--
		265+73	-	265+73	RT	53	--	--	--	--	--
			265+73		LT/RT	15	--	--	--	--	--
		265+73	-	268+84	C/L	--	--	311	--	--	--
			268+84		RT	61	--	--	--	--	--
			268+84		LT	--	--	22	--	--	--
			268+84		LT	--	--	69	--	--	--
		270+42	-	270+43	LT	20	--	--	--	--	--
		270+43	-	272+96	C/L	--	--	254	--	--	--
		272+29	-	272+96	RT	78	--	--	--	--	--
			272+96		RT	25	--	--	--	--	--
			272+96		LT	24	--	--	--	--	--
		272+96	-	277+96	C/L	--	--	500	--	--	--
			277+98		RT	--	--	--	--	--	22
			277+98		RT	--	--	--	--	--	64
			277+98		LT	--	--	--	--	--	22
			277+98		LT	--	--	--	--	--	65
		277+98	-	279+03	RT	--	--	106	--	--	--
		279+03	-	279+27	RT	--	--	24	--	--	--
		279+27	-	279+28	RT	24	--	--	--	--	--
			283+48		RT	19	--	--	--	--	--
			283+48		LT	--	25	--	--	--	--
			283+48		LT	--	53	--	--	--	--
		283+49	-	284+77	C/L	--	129	--	--	--	--
		284+77	-	284+88	RT	19	--	--	--	--	--
		284+77	-	285+27	C/L	--	51	--	--	--	--
			284+88		RT	--	11	--	--	--	--
		285+27	-	285+78	C/L	--	51	--	--	--	--
			285+78		LT/RT	26	--	--	--	--	--
			286+22		LT	18	--	--	--	--	--
			286+22		LT/RT	15	--	--	--	--	--
			286+22		RT	73	--	--	--	--	--
		287+96	-	289+07	LT	113	--	--	--	--	--
		288+20	-	289+00	RT	--	80	--	--	--	--
		289+00	-	289+06	RT	61	--	--	--	--	--
		289+00	-	289+13	RT	14	--	--	--	--	--
		289+06	-	289+07	RT	16	--	--	--	--	--
			289+07		LT/RT	16	--	--	--	--	--
		289+07	-	290+22	LT/RT	116	--	--	--	--	--
			291+25		LT	--	--	13	--	--	--
			291+25		LT	--	--	69	--	--	--
		291+25	-	292+31	RT	--	--	105	--	--	--
		292+85		293+39	LT/RT	--	--		62	--	--
		292+85	-	293+45	RT	--	--	--	56	--	--
		295+24	-	295+72	LT	--	--	--	--	168	--
		295+47	-	295+73	RT	31	--	--	--	--	--
		295+72	-	296+22	LT/RT	50	--	--	--	--	--
		296+22	-	296+60	RT	--	--	--	92	--	--
		298+34	-	299+31	C/L	--	--	93	--	--	--
			299+26		LT/RT	--	--	71	--	--	--
		318+44		318+47	LT	--	--	--	--	--	79
		318+47	-	318+51	RT	--	--	--	--	--	95
SUBTOTALS						887	400	1,642	210	168	347

(CONTINUED ON NEXT SHEET)

REMOVING CONCRETE BARRIER

CATEGORY	ROADWAY	STATION	TO	STATION	204.0157 REMOVING CONCRETE BARRIER LF
	PROJECT ID 1033-02-71				
6000	RAMP NW				
		868NW+51	-	868NW+95	44
	CONTRACT TOTAL				44

REMOVING GUARDRAIL

CATEGORY	ROADWAY	FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	204.0165 LF
6000	**PROJECT ID 1033-02-71**					
	IH 94 SB					
		871+45	75'LT	872+43	77'LT	98
	RAMP NW					
		868NW+95	25'RT	869NW+93	24'RT	98
	CONTRACT TOTAL					196

REMOVING CONCRETE CHANNEL

CATEGORY	ROADWAY	STATION	TO	STATION	OFFSET	204.9180.S.0001 SY
	PROJECT ID 1033-02-71					
1000	STH 20					
		279+00	-	279+90	LT	162
	RAMP SW					
		279+00	-	279+90	LT	25
	CONTRACT TOTAL					187

REMOVING STORM SEWER (CONTINUED)

CATEGORY	ROADWAY	STATION	TO	STATION	OFFSET	204.0245.0004 12-INCH LF	204.0245.0006 15-INCH LF	204.0245.0008 18-INCH LF	204.0245.0010 24-INCH LF	204.0245.0012 30-INCH LF	204.0245.0016 36-INCH LF
	PROJECT ID 1033-02-71										
1000	RAMP SW										
		862SW+12	-	862SW+60	LT	--	55	--	--	--	--
	RAMP NW										
		864NW+11	-	866NW+01	LT	--	193	--	--	--	--
		864NW+28	-	864NW+50	LT/RT	--	45	--	--	--	--
		865NW+98	-	866NW+01	LT/RT	--	60	--	--	--	--
	RAMP SE										
		860SE+35	-	860SE+71	LT/RT	--	--	--	93	--	--
		860SE+54	-	860SE+71	RT	--	--	--	28	--	--
	RAMP NE										
		861NE+90	-	862NE+07	RT	--	44	--	--	--	--
		862NE+82	-	865NE+20	LT	--	--	--	--	200	--
	WEST FRONTAGE ROAD SOUTH										
		2858+19	-	2858+22	RT	--	--	4	--	--	--
		2858+22	-	2859+71	LT/RT	--	--	--	194	--	--
		2862+61	-	2863+19	LT/RT	73	--	--	--	--	--
		2864+37	-	2864+41	LT/RT	--	--	--	158	--	--
	EAST FRONTAGE ROAD SOUTH										
		3858+12	-	3858+19	LT	75	--	--	--	--	--
	EAST FRONTAGE ROAD NORTH										
		5859+58	-	5859+60	LT/RT	--	101	--	--	--	--
		5859+60	-	5859+67	RT	57	--	--	--	--	--
	SUBTOTALS					205	498	4	473	200	--
	CONTRACT TOTAL					1,092	898	1,646	683	368	347

TEMPORARY CONCRETE BARRIER LEFT IN PLACE

CATEGORY	ROADWAY	STATION	TO	STATION	SPV.0090.0003 MAINTAIN AND REMOVE CONCRETE BARRIER TEMPORARY PRECAST LF
	PROJECT ID 1033-02-71				
1000	RAMP NW				
		865NW+02	-	868NW+51	361
	CONTRACT TOTAL				361

FINISHING ROADWAY

CATEGORY	STAGE	LOCATION	213.0100.0001 FINISHING ROADWAY PROJECT ID 1033-02-71 EACH	213.0100.0002 FINISHING ROADWAY PROJECT ID 1033-02-76 EACH
1000	ALL	PROJECT	1	1
	CONTRACT TOTAL		1	1

REMOVING PAVEMENT MARKINGS

CATEGORY	STAGE	ROADWAY	646.9010 MARKING REMOVAL LINE WATER BLASTING 4-INCH LF	646.9110 MARKING REMOVAL LINE WATER BLASTING 8-INCH LF	646.9210 MARKING REMOVAL LINE WATER BLASTING WIDE LF	646.9300 MARKING REMOVAL SPECIAL MARKING WATER BLASTING EACH
		PROJECT ID 1033-02-71				
1000	1A	STH 20	4,987	1,049	--	--
		RAMP NW	51	142	--	--
		RAMP SE	--	160	--	--
		WEST FRONTAGE ROAD SOUTH	--	379	--	--
		EAST FRONTAGE ROAD SOUTH	390	235	--	--
		EAST FRONTAGE ROAD NORTH	55	259	--	--
	1B	STH 20	7,995	738	165	13
		RAMP NW	752	--	22	4
		RAMP SE	615	89	29	5
		WEST FRONTAGE ROAD SOUTH	698	--	214	--
		WEST FRONTAGE ROAD NORTH	695	--	289	--
		EAST FRONTAGE ROAD SOUTH	--	--	25	--
		EAST FRONTAGE ROAD NORTH	150	--	109	2
		CONTRACT TOTAL	16,388	3,051	853	24

SAW CUTTING ITEMS

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
		PROJECT ID 1033-02-71							
1000	1A	STH 20							
			286+37	-	286+78	RT	--	90	CURB & GUTTER
			286+92	-	287+18	RT	--	77	ISLAND
			291+51	-	292+67	RT	--	226	ISLAND
			292+87		293+60	RT	--	74	CURB & GUTTER
			296+93	-	301+97	RT	--	507	SHOULDER
			303+78	-	314+09	RT	1,036	--	SHOULDER
			314+88	-	336+26	RT	2,148	--	SHOULDER
			328+01	-	329+33	LT	32	107	TEMP STORM SEWER CROSSING
			328+32	-	330+05	LT	32	149	TEMP STORM SEWER CROSSING
1000	1A	RAMP SW							
			862SW+18	-	862SW+45	RT	--	30	CURB & GUTTER
1000	1A	RAMP SE							
			860SE+53	-	860SE+51	LT/RT	--	109	ISLAND
1000	1A	EAST FRONTAGE ROAD SOUTH							
			3853+82	-	3855+58	LT	--	155	ISLAND
			3856+53	-	3858+17	LT	--	222	ISLAND
			3857+53	-	3858+36	LT	--	119	CURB & GUTTER
			3858+15	-	3858+36	RT	--	49	CURB & GUTTER
1000	1A	EAST FRONTAGE ROAD NORTH							
			5861+30	-	5861+84	LT	--	67	ISLAND
			5862+52	-	5863+12	RT	65	5	ISLAND
		STAGE 1A SUBTOTAL					3,313	1,986	
1000	1B	STH 20							
			260+63	-	262+72	LT/RT	14	230	ISLAND
			263+16	-	269+00	LT/RT	--	783	ISLAND
			271+50	-	278+27	RT	--	685	ISLAND
			278+89	-	282+37	RT	--	368	ISLAND
			283+10	-	283+97	RT	--	95	CURB & GUTTER
			284+82	-	286+94	RT	--	442	ISLAND
			287+84	-	292+32	LT/RT	--	576	ISLAND
			296+52	-	299+91	RT	--	347	ISLAND
			303+76	-	313+96	RT	1,022	--	ISLAND
1000	1B	WEST FRONTAGE ROAD NORTH							
			4864+92	-	4868+06	LT	--	53	CORRUGATED MEDIAN
		STAGE 1B SUBTOTAL					1,036	3,579	
1000	2	STH 20							
			265+07			LT	11	36	WEST PROJECT LIMITS
			265+80	-	265+93	LT	14	--	DRIVEWAY
			270+11	-	271+50	RT	--	141	MEDIAN
			270+47	-	270+75	LT	31	--	GREENMONTE DRIVE
			270+61	-	270+90	LT/RT	61	85	GREENMONTE DRIVE PAVEMENT GAP

SAW CUTTING ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
1000	2	STH 20							
			270+91		271+39	LT/RT	14	78	GREENMONTE DRIVE PAVEMENT GAP
			278+25	-	278+92	RT	--	67	MEDIAN
			278+44	-	278+59	LT/RT	46	78	DRIVEWAY PAVEMENT GAP
			278+46	-	278+75	LT	27	--	DRIVEWAY
			278+85	-	279+14	LT/RT	22	93	DRIVEWAY PAVEMENT GAP
			282+37	-	283+10	RT	--	74	MEDIAN
			282+89	-	283+11	LT	20	--	DRIVEWAY
			285+06	-	285+08	LT	--	13	LEFT TURN LANE
			286+53	-	287+44	LT/RT	--	68	WEST FRONTAGE RD MEDIAN - 2A
			286+98	-	287+13	LT	--	90	WEST FRONTAGE RD PAVEMENT GAP - 2A
			286+98	-	287+44	LT	--	47	WEST FRONTAGE RD MEDIAN - 2C
			287+24		287+44	LT	21	--	WEST FRONTAGE RD PAVEMENT GAP - 2C
			287+44	-	287+69	LT	47	90	WEST FRONTAGE RD PAVEMENT GAP - 2B
			287+71	-	288+52	LT	--	185	WEST FRONTAGE RD PAVEMENT GAP - 2A
			287+82	-	287+94	RT	19	84	STORM SEWER CROSSING - INL 207-212-217
			288+06	-	288+13	RT	--	56	STORM SEWER CROSSING - INL 207-212-217
			291+85	-	292+55	RT	123	59	STORM SEWER CROSSING - INL 307-309
			292+00	-	292+55	LT/RT	75	45	STORM SEWER CROSSING - INL 307-309
				292+00		LT	--	48	RAMP NW PAVEMENT GAP - 2A
			292+28	-	292+46	LT	--	19	RAMP NW MEDIAN - 2B
			292+26	-	293+03	LT/RT	32	118	RAMP NW PAVEMENT GAP - 2A
				295+41		RT	--	37	STORM SEWER CROSSING - INL 413-414
				295+61		RT	--	41	STORM SEWER CROSSING - INL 413-414
			295+66	-	296+52	RT	--	93	MEDIAN RAMP SE
				299+43		RT	5	37	STORM SEWER CROSSING - INL 407-408
				299+63		RT	5	36	STORM SEWER CROSSING - INL 407-408
			302+21	-	302+48	LT	--	32	EAST FRONTAGE RD MEDIAN - 2A
				302+48		LT	--	66	EAST FRONTAGE RD PAVEMENT GAP - 2A
			302+48		302+78	LT	--	31	EAST FRONTAGE RD MEDIAN - 2C
			302+78	-	303+14	LT	--	113	EAST FRONTAGE RD PAVEMENT GAP - 2B
			302+89	-	303+14	LT	--	91	EAST FRONTAGE RD PAVEMENT GAP - 2A
			303+14	-	303+73	LT	--	74	EAST FRONTAGE RD MEDIAN - 2A
			303+19	-	303+36	RT	--	137	STORM SEWER CROSSING - INL 509-515-519A
			303+47	-	303+55	RT	--	56	STORM SEWER CROSSING - INL 509-515-519A
			313+96	-	315+08	RT	--	108	MEDIAN
			328+39	-	328+87	RT	--	48	MEDIAN
				330+30		LT	4	24	EAST PROJECT LIMITS
			330+30	-	336+30	LT	601	--	SHOULDER
1000	2	RAMP SW							
				858SW+57		LT/RT	--	34	SOUTH LIMITS
				859SW+34		LT	--	3	PARKING LOT CURB & GUTTER
			861SW+45	-	861SW+53	LT	--	5	PARKING LOT CURB & GUTTER
				861SW+63		LT/RT	28	15	LIMITS - STAGE 2
1000	2	RAMP NW							
			863NW+82	-	864NW+69	RT	47	54	REMOVAL - 2A
			864NW+81	-	868NW+51	RT	371	--	REMOVAL - 2A
				868NW+51		LT	--	17	NORTH LIMITS - 2A
				868NW+51		RT	--	12	NORTH LIMITS - 2B

(CONTINUED ON NEXT SHEET)

SAW CUTTING ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
1000	2	RAMP SE							
			855SE+90			LT/RT	--	23	SOUTH LIMITS
			855SE+90	-	860SE+76	LT/RT	455	61	
			860SE+41	-	860SE+78	LT	--	30	STORM SEWER CROSSING - IN 411 -413
			860SE+62	-	860SE+74	LT/RT	5	40	STORM SEWER CROSSING - IN 411 -413
1000	2	RAMP NE							
			867NE+00			LT/RT	--	32	NORTH LIMITS
1000	2	WEST FRONTAGE ROAD SOUTH							
			2857+00			LT/RT	35	--	SOUTH LIMITS - 2A
			2857+00	-	2863+87	LT	703	--	REMOVAL - 2A
			2858+96	-	2859+49	RT	53	5	DRIVEWAY - 2A
			2860+09	-	2860+68	RT	41	45	DRIVEWAY - 2A
			2862+13			RT	--	43	DRIVEWAY PAVEMENT GAP - 2A
			2862+20	-	2862+56	RT	--	36	DRIVEWAY - 2A
			2862+63			RT	--	40	DRIVEWAY PAVEMENT GAP - 2A
1000	2	WEST FRONTAGE ROAD NORTH							
			4865+12	-	4868+00	LT/RT	242	55	REMOVAL - 2A
			4866+33	-	4866+72	RT	40	3	DRIVEWAY - 2A
			4866+41	-	4866+50	RT	35	--	DRIVEWAY PAVEMENT GAP - 2A
			4866+52	-	4866+73	RT	60	--	DRIVEWAY PAVEMENT GAP - 2A
			4867+23	-	4867+92	RT	82	3	DRIVEWAY - 2A
			4867+53	-	4867+55	RT	69	--	DRIVEWAY PAVEMENT GAP - 2A
			4868+00			LT/RT	30	--	NORTH LIMITS - 2A
			4868+06			LT/RT	--	3	CURB & GUTTER - 2A
1000	2	EAST FRONTAGE ROAD SOUTH							
			3852+25			RT	25	--	SOUTH LIMITS - 2A
			3852+72	-	3853+04	LT/RT	43	14	DRIVEWAY PAVEMENT GAP - 2A
			3852+76	-	3854+03	R/L	117	--	REMOVAL - 2A
			3853+05	-	3853+42	RT	--	37	DRIVEWAY - 2A
			3853+39	-	3853+60	RT	32	20	DRIVEWAY PAVEMENT GAP - 2A
			3855+30	-	3857+52	R/L	244	3	REMOVAL - 2A
			3855+58	-	3857+52	LT	210	--	REMOVAL - 2B
			3855+73	-	3856+13	RT	--	35	DRIVEWAY- 2A
1000	2	EAST FRONTAGE ROAD NORTH							
			5859+73	-	5863+16	LT/RT	146	220	REMOVAL - 2A
			5860+10	-	5860+35	LT/RT	--	75	EAST FRONTAGE RD PAVEMENT GAP - 2B
			5861+85	-	5862+23	RT	33	5	DRIVEWAY - 2A
			5863+16			RT	37	--	NORTH LIMITS - 2A
6000	2	IH 94 SB							
			871+45	-	873+55	LT	--	230	CURB & GUTTER
6000	2	RAMP NW							
			868NW+51	-	873NW+55	RT	--	508	REMOVAL - 2A
		STAGE 2 SUBTOTAL					4,361	4,304	

SAW CUTTING ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
1000	3	STH 20							
			365+06			RT	--	27	WEST PROJECT LIMITS
			266+51	-	266+65	RT	15	--	DRIVEWAY
			269+02	-	269+17	RT	15	--	DRIVEWAY
			271+22	-	271+33	RT	12	--	DRIVEWAY
			273+79	-	274+01	RT	23	--	DRIVEWAY
			278+29			RT	23	40	DRIVEWAY PAVEMENT GAP
			278+43	-	278+67	RT	25	--	DRIVEWAY
			278+55			RT	62	40	DRIVEWAY PAVEMENT GAP
			282+61			RT	20	40	SPOKES CIRCLE PAVEMENT GAP
			282+75	-	282+97	RT	24	--	SPOKES CIRCLE
			282+96			RT	11	42	SPOKES CIRCLE PAVEMENT GAP
			287+32	-	287+66	LT/RT	--	110	WEST FRONTAGE RD PAVEMENT GAP - 3A
			287+66	-	287+70	RT	14	61	WEST FRONTAGE RD PAVEMENT GAP - 3B
			289+70	-	289+80	RT	--	5	PARKING LOT CURB & GUTTER
			296+69			RT	--	39	RAMP SE PAVEMENT GAP - 3A
			302+64	-	302+95	LT/RT	--	139	EAST FRONTAGE RD PAVEMENT GAP - 3A
			302+86	-	303+08	LT/RT	--	57	EAST FRONTAGE RD PAVEMENT GAP - 3B
			314+32	-	314+57	RT	26	--	GALAXY DRIVE
			314+43	-	314+45	RT	52	35	GALAXY DRIVE PAVEMENT GAP
			314+79	-	314+85	RT	4	37	GALAXY DRIVE PAVEMENT GAP
			323+97			RT	4	24	EAST PROJECT LIMITS
1000	3	RAMP SE							
			855SE+90			LT	--	16	SOUTH LIMITS - 3A
1000	3	WEST FRONTAGE ROAD SOUTH							
			2857+00			LT	28	--	SOUTH LIMITS - 3A
			2861+04	-	2861+41	LT	34	5	SPOKES CIRCLE - 3A
1000	3	EAST FRONTAGE ROAD SOUTH							
			3852+25			LT	30	--	SOUTH LIMITS - 3A
			3852+89	-	3853+81	LT	92	--	DRIVEWAY
			3853+62	-	3853+81	LT	44	29	DRIVEWAY PAVEMENT GAP
			3853+63	-	3853+81	LT	37	29	DRIVEWAY PAVEMENT GAP
			3855+70	-	3855+96	LT	30	5	DRIVEWAY
1000	3	EAST FRONTAGE ROAD NORTH							
			5861+68	-	5862+20	LT	49	5	DRIVEWAY - 3A
			5861+77	-	5861+82	LT	36	--	DRIVEWAY PAVEMENT GAP - 3A
			5862+18			LT	47	--	DRIVEWAY PAVEMENT GAP - 3A
			5862+59	-	5863+17	LT	67	5	DRIVEWAY - 3A
			5863+16			LT/RT	63	3	NORTH LIMITS - 3A
		STAGE 3 SUBTOTAL					887	793	
		CATEGORY 1000 SUBTOTAL					9,597	9,924	
		CATEGORY 6000 SUBTOTAL					--	738	
		CONTRACT TOTAL					9,597	10,662	

3

EARTHWORK

CATEGORY	STAGE	ROADWAY	FROM / TO STATION	205.0100 (1) EXCAVATION COMMON CY	SPV.0035.0001 (2)(5) EBS EXCAVATION CY	SPV.0035.0002 EBS BACKFILL CY	SPV.0035.0003 (3) ROADWAY EMBANKMENT CY	SPV.0195.0001 SOIL DRYING TREATMENT TON	SPV.0195.0002 SUBGRADE STRENGTHENING TREATMENT TON	(4) MASS ORDINATE +/-
		PROJECT ID 1033-02-71								
1000	1	TEMPORARY	265+07 to 339+92	6,289	1,258	1,258	3,290	0	252	3,000
		SUBTOTALS STAGE 1		6,289	1,258	1,258	3,290	0	252	3,000
1000	2	STH 20	265+07 to 336+30	44,911	8,983	8,983	8,421	45	449	36,491
		RAMP NW	864+09 to 873+56	3,997	800	800	1,003	4	40	2,994
		RAMP SE	855+90 to 860+50	3,159	632	632	26	3	32	3,132
		RAMP SW	858+57 to 862+03	2,698	540	540	413	3	27	2,285
		RAMP NE	862+11 to 867+00	5,758	1,152	1,152	799	6	58	4,959
		WEST FRONTAGE ROAD	2857+00 to 4868+00	4,679	936	936	493	5	47	4,186
		EAST FRONTAGE RAOD	3852+25 to 5863+14	4,481	897	897	114	5	45	4,367
		RED CLOUD	269+77 to 272+69	151	31	31	909	0	2	-759
		SUBTOTALS STAGE 2		69,835	13,971	13,971	12,179	70	700	57,656
1000	3	STH 20	265+07 to 336+30	47,467	9,494	9,494	6,581	48	475	40,886
		RAMP SE	855+90 to 860+50	2,746	550	550	0	3	28	2,746
		WEST FRONTAGE ROAD	2857+00 to 4868+00	3,675	735	735	647	4	37	3,027
		EAST FRONTAGE ROAD	3852+25 to 5863+14	5,968	1,194	1,194	166	6	60	5,802
		SUBTOTALS STAGE 3		59,856	11,973	11,973	7,394	60	600	52,462
		GRAND TOTALS		135,980	27,202	27,202	22,863	130	1,552	113,117

NOTES:

1) Cut Volume Includes Concrete and Asphaltic Surface Material.
2) EBS Excavation to be backfilled with EBS Backfill. All EBS material is assumed to be wasted offsite.
3) Roadway Embankment = Unexpanded Fill
4) The Mass Ordinate + or - quantity is calculated by stage. A positive quantity indicates an excess of material within the stage and a negative number indicates a shortage of material within the stage. Mass Ordinate = Cut-Embankment. The mass ordinate is for informational purposes only as Common Excavation and Roadway Embankment are not balanced for quantity purposes and does not guarantee the quality of Common Excavation, and if it can be reused onsite.

BASE AGGREGATE ITEMS

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	305.0115 BASE AGGREGATE DENSE 3/4-INCH CY	305.0125 BASE AGGREGATE DENSE 1 1/4-INCH CY	312.0115 SELECT CRUSHED MATERIAL CY
		PROJECT ID 1033-02-71							
1000	1A	STH 20 - TEMPORARY PAVEMENT							
			272+30	-	336+26	RT	--	1,608	--
			327+56	-	330+28	LT	--	1,608	--
		RAMP SE - TEMPORARY PAVEMENT							
			860SE+53	-	860SE+96	LT/RT	--	--	--
		WEST FRONTAGE ROAD SOUTH - TEMPORARY PAVEMENT							
			2857+02	-	2863+04	LT	--	58	--
		WEST FRONTAGE ROAD NORTH - TEMPORARY PAVEMENT							
			4865+40	-	4867+74	LT	--	30	--
		EAST FRONTAGE ROAD SOUTH - TEMPORARY PAVEMENT							
			3849+37	-	3858+30	LT/RT	--	41	--
		EAST FRONTAGE ROAD NORTH - TEMPORARY PAVEMENT							
			5861+30	-	5863+15	LT/RT	--	--	--
		STAGE 1A SUBTOTAL					--	3,345	--
1000	1B	STH 20 - TEMPORARY PAVEMENT							
			265+07	-	336+26	LT/RT	--	1,407	--
		WEST FRONTAGE ROAD NORTH - TEMPORARY PAVEMENT							
			4865+08	-	4867+43	LT	--	--	--
		WEST FRONTAGE ROAD NORTH - TEMPORARY PAVEMENT							
			4865+08	-	4867+43	LT	--	--	--
		STAGE 1B SUBTOTAL					--	1,407	--
1000	2	STH 20							
			260+64	-	278+00	LT/RT	18	1,583	3,369
			265+71	-	266+04	LT	6	--	--
			278+00	-	310+00	LT/RT	20	4,760	10,982
			278+37	-	278+85	LT	15	--	--
			282+80	-	283+16	LT	8	--	--
			308+44	-	309+64	LT	15	--	--
			310+00	-	330+30	LT/RT	35	2,142	4,085
			327+90	-	329+37	LT	--	87	--
			330+30	-	336+30	LT	--	193	--
		RAMP SW							
			858SW+57	-	862SW+77	LT/RT	2	295	625
		RAMP NW							
			863NW+81	-	868NW+51	LT/RT	7	597	1,347

BASE AGGREGATE ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	305.0115 BASE AGGREGATE DENSE 3/4-INCH CY	305.0125 BASE AGGREGATE DENSE 1 1/4-INCH CY	312.0115 SELECT CRUSHED MATERIAL CY
		RAMP SE							
			855SE+90	-	860SE+88	RT	--	392	893
1000	2	RAMP NE							
			861NE+76	-	867NE+00	LT/RT	16	680	1,304
		WEST FRONTAGE ROAD SOUTH							
			2857+00	-	2864+58	LT	11	720	1,678
			2858+73	-	2859+50	RT	47	--	--
			2858+74	-	2859+49	RT	39	--	--
		WEST FRONTAGE ROAD NORTH							
			4864+82	-	4868+06	LT/RT	--	348	859
			4866+33	-	4866+78	RT	20	--	--
			4867+24	-	4867+54	RT	36	--	--
		EAST FRONTAGE ROAD SOUTH							
			3849+39	-	3858+30	LT/RT	--	399	984
			3853+01	-	3853+48	RT	13	--	--
			3854+98	-	3855+56	RT	17	--	--
		EAST FRONTAGE ROAD NORTH							
			5859+60	-	5863+16	LT/RT	--	405	994
			5861+81	-	5862+28	RT	15	--	--
		STH 20 - TEMPORARY PAVEMENT							
			265+43	-	330+30	LT/RT	--	491	683
			287+86	-	303+56	RT	--	--	--
		RAMP NW - TEMPORARY PAVEMENT							
			860NW+45	-	860NW+78	RT	--	--	--
		RAMP SE - TEMPORARY PAVEMENT							
			860SE+45	-	860SE+78	RT	--	--	--
		WEST FRONTAGE ROAD SOUTH - TEMPORARY PAVEMENT							
			2863+87	-	2864+50	LT/RT	--	--	--
		WEST FRONTAGE ROAD NORTH - TEMPORARY PAVEMENT							
			4864+88	-	4868+00	LT/RT	--	--	--
		EAST FRONTAGE ROAD NORTH - TEMPORARY PAVEMENT							
			5859+76	-	5863+13	LT/RT	--	--	--
6000	2	IH 94 SB							
			871+45	-	873+55	LT	--	35	--
		STH 20							
			278+00	-	310+00	LT/RT	--	56	149
			310+00	-	330+30	LT/RT	--	1,346	3,183
			330+30	-	336+30	LT	--	145	--

(CONTINUED ON NEXT SHEET)

BASE AGGREGATE ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	305.0115 BASE AGGREGATE DENSE 3/4-INCH CY	305.0125 BASE AGGREGATE DENSE 1 1/4-INCH CY	312.0115 SELECT CRUSHED MATERIAL CY
6000	2	RAMP NW							
			868NW+51	-	873NW+56	RT	--	193	476
		RED CLOUD DRIVE							
			271+59	-	272+69	LT/RT	2	252	547
		STAGE 2 SUBTOTAL					342	15,119	32,158
1000	3	STH 20							
			260+64	-	278+00	RT	11	1,628	3,554
			266+45	-	266+68	RT	2	--	--
			268+99	-	269+22	RT	2	--	--
			270+57	-	270+81	RT	2	--	--
			271+18	-	271+37	RT	2	--	--
			278+00	-	310+00	LT/RT	9	4,605	10,770
			278+30	-	278+83	RT	20	--	--
			310+00	-	330+30	LT/RT	14	1,349	2,723
			322+88	-	323+97	RT	--	167	--
		RAMP SW							
			858SW+57	-	862SW+77	LT/RT	--	137	321
		RAMP SE							
			855SE+90	-	860SE+88	LT	--	338	767
		WEST FRONTAGE ROAD SOUTH							
			2857+00	-	2864+58	LT/RT	3	787	1,918
		WEST FRONTAGE ROAD NORTH							
			4864+82	-	4868+06	LT/RT	--	257	616
		EAST FRONTAGE ROAD SOUTH							
			3849+39	-	3858+30	LT/RT	--	879	2,166
			3852+73	-	3823+94	LT	19	--	--
			3855+70	-	3855+99	LT	6	--	--
		EAST FRONTAGE ROAD NORTH							
			5860+11	-	5863+16	LT/RT	--	360	838

3

BASE AGGREGATE ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	305.0115 BASE AGGREGATE DENSE 3/4-INCH CY	305.0125 BASE AGGREGATE DENSE 1 1/4-INCH CY	312.0115 SELECT CRUSHED MATERIAL CY
			5861+69	-	5863+14	LT	28	--	--
6000	3	STH 20							
			278+00	-	310+00	LT/RT	--	5	12
			310+00	-	330+30	LT/RT	--	626	1,581
			322+88	-	323+97	RT	--	37	--
		RED CLOUD DRIVE							
			269+77	-	270+56	LT/RT	--	164	361
		STAGE 3 SUBTOTAL					118	11,339	25,627
1000	4A	WEST FRONTAGE ROAD NORTH							
			4864+82	-	4868+06	LT	--	35	89
		STAGE 4A SUBTOTAL					--	35	89
		CATEGORY 1000 SUBTOTAL					458	28,386	51,565
		CATEGORY 6000 SUBTOTAL					2	2,859	6,309
		CONTRACT TOTAL					460	31,245	57,874

CONCRETE ITEMS

CATEGORY	STAGE	ROADWAY	STATION		TO	STATION	OFFSET	415.0095 CONCRETE PAVEMENT 9 1/2-INCH SY	415.1095 CONCRETE PAVEMENT HES 9 1/2-INCH SY	415.0105 CONCRETE PAVEMENT 10 1/2-INCH SY	415.1105 CONCRETE PAVEMENT HES 10 1/2-INCH SY	415.0115 CONCRETE PAVEMENT 11 1/2-INCH SY	415.1115 CONCRETE PAVEMENT HES 11 1/2-INCH SY	415.0120 CONCRETE PAVEMENT 12-INCH SY	416.0260 CONCRETE DRIVEWAY HES 6-INCH SY	416.0290 CONCRETE DRIVEWAY HES 9-INCH SY	* 416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	416.1010 CONCRETE SURFACE DRAINS CY	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF	603.1142 CONCRETE BARRIER TYPE S42 LF	620.0100 CONCRETE CORRUGATED MEDIAN SF	620.0300 CONCRETE MEDIAN SLOPED NOSE TYPE 1 SF	620.0300 CONCRETE MEDIAN SLOPED NOSE TYPE 2 SF	715.0415 INCENTIVE STRENGTH CONCRETE PAVEMENT DOL	715.0710 OPTIMIZED AGGREGATE GRADATION INCENTIVE DOL
		PROJECT ID 1033-02-71																											
1000	2	STH 20																											
			260+64	-	278+00	LT/RT	--	--	--	--	6,384	710	--	--	--	--	35	--	--	--	--	--	--	67	--	2,129	7,981
			278+00	-	310+00	LT/RT	--	--	--	--	20,070	2,230	--	--	--	--	--	--	4,125	--	--	--	--	246	--	6,690	25,088
			310+00	-	330+30	LT/RT	--	--	--	--	7,347	817	--	--	--	--	23	4	--	--	--	--	--	--	--	2,450	9,185
		RAMP SW																											
			858SW+57	-	862SW+77	LT/RT	--	--	915	102	--	--	--	--	--	3	24	--	--	--	--	--	--	--	--	306	1,030
		RAMP NW																											
			863NW+81	-	868NW+51	LT/RT	--	--	2,484	277	--	--	--	--	--	--	24	--	--	--	--	352	--	--	--	829	2,796
		RAMP SE																											
			855SE+90	-	860SE+88	RT	--	--	1,418	158	--	--	--	--	--	3	15	--	493	--	--	--	--	56	--	473	1,596
		RAMP NE																											
			861NE+76	-	867NE+00	LT/RT	--	--	2,382	265	--	--	--	--	--	--	26	5	159	--	--	--	--	--	--	795	2,681
		WEST FRONTAGE ROAD SOUTH																											
			2857+00	-	2863+87	RT	2,972	331	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	991	2,973
			2858+73	-	2859+50	RT	--	--	--	--	--	--	--	--	209	--	--	--	--	--	--	--	--	--	--	--	--
		WEST FRONTAGE ROAD NORTH																											
			4864+82	-	4868+06	LT/RT	1,508	168	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	503	1,509
		EAST FRONTAGE ROAD SOUTH																											
			3849+39	-	3858+30	LT/RT	1,721	192	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	574	1,722
		EAST FRONTAGE ROAD NORTH																											
			5859+60	-	5863+16	LT/RT	1,801	201	--	--	--	--	--	--	--	--	--	--	128	--	--	--	--	57	38	601	1,802
6000	2	IH 94 SB																											
			871+45	-	873+55	LT	--	--	--	--	--	--	94	--	--	70	8	--	--	--	--	210	--	--	--	--	--
		STH 20																											
			278+00	-	310+00	LT/RT	--	--	--	--	335	--	--	--	--	--	--	--	--	--	--	--	--	--	--	101	377
			310+00	-	330+30	LT/RT	--	--	--	--	6,224	--	--	--	--	--	--	--	1,649	20	--	--	--	438	--	1,868	7,002
		RAMP NW																											
			868NW+51	-	873NW+56	RT	--	--	862	96	--	--	--	--	--	169	8	--	--	--	--	506	--	--	--	288	970
		RED CLOUD DRIVE																											
			271+59	-	272+69	LT/RT	--	--	--	--	1,007	--	--	--	--	--	--	--	1,086	30	36	--	--	112	38	303	1,133
		STAGE 2 SUBTOTAL					8,002	892	8,061	898	41,367	3,757	94	--	209	245	163	9	7,640	50	36	1,068	--	1,052		18,901	67,845

*ADDITIONAL QUANTITIES ELSEWHERE

(CONTINUED ON NEXT SHEET)

CONCRETE ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	415.0095 CONCRETE PAVEMENT 9 1/2-INCH SY	415.1095 CONCRETE PAVEMENT HES 9 1/2-INCH SY	415.0105 CONCRETE PAVEMENT 10 1/2-INCH SY	415.1105 CONCRETE PAVEMENT HES 10 1/2-INCH SY	415.0115 CONCRETE PAVEMENT 11 1/2-INCH SY	415.1115 CONCRETE PAVEMENT HES 11 1/2-INCH SY	415.0120 CONCRETE PAVEMENT 12-INCH SY	416.0260 CONCRETE DRIVEWAY HES 6-INCH SY	416.0290 CONCRETE DRIVEWAY HES 9-INCH SY	416.0610* DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	416.1010 CONCRETE SURFACE DRAINS CY	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF	603.1142 CONCRETE BARRIER TYPE S42 LF	620.0100 CONCRETE CORRUGATED MEDIAN SF	620.0300 CONCRETE MEDIAN SLOPED NOSE TYPE 1 SF	620.0300 CONCRETE MEDIAN SLOPED NOSE TYPE 2 SF	715.0415 INCENTIVE STRENGTH CONCRETE PAVEMENT DOL	715.0710 OPTIMIZED AGGREGATE GRADATION INCENTIVE DOL
1000	3	STH 20																									
			260+64	-	278+00	RT	--	--	--	--	6,131	682	--	--	--	3	29	1	--	--	--	--	--	63	--	2,044	7,665
			266+45	-	266+68	RT	--	--	--	--	--	--	--	18	--	--	--	--	--	--	--	--	--	--	--	--	--
			268+99	-	269+22	RT	--	--	--	--	--	--	--	18	--	--	--	--	--	--	--	--	--	--	--	--	--
			270+57	-	270+81	RT	--	--	--	--	--	--	--	16	--	--	--	--	--	--	--	--	--	--	--	--	--
			271+18	-	271+37	RT	--	--	--	--	--	--	--	13	--	--	--	--	--	--	--	--	--	--	--	--	--
			278+00	-	310+00	LT/RT	--	--	--	--	19,440	2,160	--	--	--	--	--	--	6,622	--	--	--	--	551	22	6,480	24,300
			310+00	-	330+30	LT/RT	--	--	--	--	5,009	557	--	--	--	--	--	1	--	--	--	--	--	--	--	1,670	6,262
		RAMP SW																									
			858SW+57	-	862SW+77	LT/RT	--	--	533	60	--	--	--	--	--	--	--	--	137	--	--	--	--	57	42	178	601
		RAMP SE																									
			855SE+90	-	860SE+88	LT	--	--	1,252	140	--	--	--	--	--	3	14	--	900	--	--	--	--	--	38	418	1,410
		WEST FRONTAGE ROAD SOUTH																									
			2857+00	-	2864+58	LT/RT	3,367	375	--	--	--	--	--	--	--	--	--	--	1,139	--	--	--	--	167	38	1,123	3,368
		WEST FRONTAGE ROAD NORTH																									
			4864+82	-	4868+06	LT/RT	1,014	113	--	--	--	--	--	--	--	--	--	--	274	--	--	--	--	70	--	339	1,015
		EAST FRONTAGE ROAD SOUTH																									
			3849+39	-	3858+30	LT/RT	3,782	421	--	--	--	--	--	--	--	--	--	--	3,250	--	--	--	--	357	20	1,261	3,783
		EAST FRONTAGE ROAD NORTH																									
			5860+11	-	5863+16	LT/RT	1,333	149	--	--	--	--	--	--	--	--	--	--	1,171	--	--	--	--	56	--	445	1,334
6000	3	STH 20																									
			278+00	-	310+00	LT/RT	--	--	--	--	27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9	31
			310+00	-	330+30	LT/RT	--	--	--	--	3,372	--	--	--	--	--	--	--	1,635	20	--	--	--	191	29	1,012	3,794
		RED CLOUD DRIVE																									
			269+77	-	270+56	LT/RT	--	--	--	--	659	--	--	--	--	--	--	--	603	20	24	--	--	112	38	198	742
		STAGE 3 SUBTOTAL					9,496	1,058	1,785	200	34,638	3,399	--	65	--	6	43	2	15,731	40	24	--	--	1,851		15,177	54,305
1000	4A	STH 20																									
			260+64	-	278+00	LT/RT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	199	--	--	--
			278+00	-	310+00	LT	--	--	--	--	--	--	--	--	--	--	--	--	986	--	--	--	--	734	--	--	--
			310+00	-	330+30	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		RAMP NW																									
			864NW+03	-	865NW+00	LT	--	--	--	--	--	--	--	--	--	--	--	--	1,088	--	--	--	--	56	38	--	--
		WEST FRONTAGE ROAD NORTH																									
			4864+82	-	4868+06	LT/RT	--	--	--	--	--	--	--	--	--	--	--	--	112	--	--	--	1,698	56	--	--	--
		EAST FRONTAGE ROAD NORTH																									
			5859+84	-	5863+15	LT/RT	--	--	--	--	--	--	--	--	--	--	--	--	755	--	--	--	--	122	--	--	--
		STAGE 4A SUBTOTAL					--	--	--	--	--	--	--	--	--	--	--	--	2,941	--	--	--	1,698	1,205		--	--

*ADDITIONAL QUANTITIES ELSEWHERE

(CONTINUED ON NEXT SHEET)

CONCRETE ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	415.0095 CONCRETE PAVEMENT 9 1/2-INCH SY	415.1095 CONCRETE PAVEMENT HES 9 1/2-INCH SY	415.0105 CONCRETE PAVEMENT 10 1/2-INCH SY	415.1105 CONCRETE PAVEMENT HES 10 1/2-INCH SY	415.0115 CONCRETE PAVEMENT 11 1/2-INCH SY	415.1115 CONCRETE PAVEMENT HES 11 1/2-INCH SY	415.0120 CONCRETE PAVEMENT 12-INCH SY	416.0260 CONCRETE DRIVEWAY HES 6-INCH SY	416.0290 CONCRETE DRIVEWAY HES 9-INCH SY	416.0610* DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	416.1010 CONCRETE SURFACE DRAINS CY	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF	603.1142 CONCRETE BARRIER TYPE S42 LF	620.0100 CONCRETE CORRUGATED MEDIAN SF	620.0300 CONCRETE MEDIAN SLOPED NOSE TYPE 1 SF	620.0300 CONCRETE MEDIAN SLOPED NOSE TYPE 2 SF	715.0415 INCENTIVE STRENGTH CONCRETE PAVEMENT DOL	715.0710 OPTIMIZED AGGREGATE GRADATION INCENTIVE DOL
1000	4B	RAMP NE																									
			861NE+82	-	861NE+99	RT	--	--	--	--	--	--	--	--	--	--	--	--	241	--	--	--	--	57	39	--	--
		WEST FRONTAGE ROAD SOUTH																									
			2857+00	-	2864+58	LT/RT	--	--	--	--	--	--	--	--	--	--	--	--	108	--	--	--	--	57	38	--	--
		WEST FRONTAGE ROAD NORTH																									
			4864+92	-	4865+12	LT/RT	--	--	--	--	--	--	--	--	--	--	--	--	220	--	--	--	--	113	77	--	--
		EAST FRONTAGE ROAD SOUTH																									
			3858+10	-	3858+24	LT	--	--	--	--	--	--	--	--	--	--	--	--	170	--	--	--	--	57	39	--	--
		EAST FRONTAGE ROAD NORTH																									
			5859+79	-	5859+93	LT	--	--	--	--	--	--	--	--	--	--	--	--	97	--	--	--	--	57	38	--	--
		STAGE 4B SUBTOTAL					--	--	--	--	--	--	--	--	--	--	--	--	836	--	--	--	--	572			
		CATEGORY 1000 SUBTOTAL					17,498	1,950	8,984	1,002	64,381	7,156	--	65	209	12	190	11	22,175	--	--	352	1,698	3,722		30,299	108,101
		CATEGORY 6000 SUBTOTAL					--	--	862	96	11,624	--	94	--	--	239	16	--	4,973	90	60	716	--	958		3,779	14,049
		CONTRACT TOTAL					17,498	1,950	9,846	1,098	76,005	7,156	94	65	209	251	206	11	27,148	90	60	1,068	1,698	4,680		34,078	122,150

*ADDITIONAL QUANTITIES ELSEWHERE

CONCRETE PAVEMENT JOINT LAYOUT

CATEGORY	LOCATION	415.5110.S CONCRETE PAVEMENT JOINT LAYOUT LS
	PROJECT ID 1033-02-71	
1000	PROJECT WIDE	1
	TOTAL	1

ASPHALTIC PAVEMENT ITEMS

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	460.6424 HMA PAVEMENT 4 MT 58-28 H TON	465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	614.0396 GUARDRAIL MOW STRIP ASPHALT TON
		PROJECT ID 1033-02-71														
1000	1A	STH 20 - OVERLAY														
			265+07	-	272+30	RT	--	77	--	--	--	--	--	--	122	--
		STH 20 - TEMPORARY PAVEMENT														
			272+30	-	336+26	RT	--	787	--	--	--	--	--	--	3,776	--
			327+56	-	330+28	LT	--	--	--	--	--	--	--	--	--	--
		RAMP SE - TEMPORARY PAVEMENT														
			860SE+53	-	860SE+96	LT/RT	--	5	--	--	--	--	--	--	22	--
		WEST FRONTAGE ROAD SOUTH - TEMPORARY PAVEMENT														
			2857+02	-	2863+04	LT	--	39	--	--	--	--	--	--	183	--
		WEST FRONTAGE ROAD NORTH - TEMPORARY PAVEMENT														
			4865+40	-	4867+74	LT	--	5	--	--	--	--	--	--	23	--
		EAST FRONTAGE ROAD SOUTH - TEMPORARY PAVEMENT														
			3849+37	-	3858+30	LT/RT	--	65	--	--	--	--	--	--	310	--
		EAST FRONTAGE ROAD NORTH - TEMPORARY PAVEMENT														
			5861+30	-	5863+15	LT/RT	--	11	--	--	--	--	--	--	51	--
		STAGE 1A SUBTOTAL					--	989	--	--	--	--	--	--	4,487	--
1000	1B	STH 20 - TEMPORARY PAVEMENT														
			265+07	-	336+26	LT/RT	--	592	--	--	--	--	--	--	2,837	--
		WEST FRONTAGE ROAD SOUTH - TEMPORARY PAVEMENT														
			2861+30	-	2864+28	LT	--	16	--	--	--	--	--	--	76	--
		WEST FRONTAGE ROAD NORTH - TEMPORARY PAVEMENT														
			4865+08	-	4867+43	LT	--	7	--	--	--	--	--	--	33	--
		STAGE 1B SUBTOTAL					--	615	--	--	--	--	--	--	2,946	--
1000	2	STH 20														
			265+71	-	266+04	LT	--	--	--	--	--	--	--	6	--	--
			278+37	-	278+85	LT	--	--	--	--	--	--	--	25	--	--
			282+80	-	283+16	LT	--	--	--	--	--	--	--	13	--	--
			308+44	-	309+64	LT	--	--	--	--	--	--	--	--	--	90
			327+90	-	329+37	LT	--	17	70	74	27	--	--	--	--	--
			330+30	-	336+30	LT	--	38	150	165	60	--	--	--	--	--
		WEST FRONTAGE ROAD SOUTH														
			2858+74	-	2859+49	RT	--	--	--	--	--	--	--	65	--	--
		WEST FRONTAGE ROAD NORTH														
			4866+33	-	4866+78	RT	--	--	--	--	--	--	--	27	--	--
			4867+24	-	4867+54	RT	--	--	--	--	--	--	--	55	--	--

(CONTINUED ON NEXT SHEET)

ASPHALTIC PAVEMENT ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	460.6424 HMA PAVEMENT 4 MT 58-28 H TON	465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	614.0396 GUARDRAIL MOW STRIP ASPHALT TON
1000	2	EAST FRONTAGE ROAD SOUTH														
			3853+01	-	3853+48	RT	--	--	--	--	--	--	--	19	--	--
			3854+98	-	3855+56	RT	--	--	--	--	--	--	--	26	--	--
		EAST FRONTAGE ROAD NORTH														
			5861+81	-	5862+28	RT	--	--	--	--	--	--	--	22	--	--
		STH 20 - TEMPORARY PAVEMENT														
			265+43	-	330+30	LT/RT	--	222	--	--	--	--	--	--	1,062	--
			287+86	-	303+56	RT	--	60	--	--	--	--	--	--	287	--
		RAMP NW - TEMPORARY PAVEMENT														
			860NW+45	-	860NW+78	RT	--	14	--	--	--	--	--	--	67	--
		RAMP SE - TEMPORARY PAVEMENT														
			860SE+45	-	860SE+78	RT	--	4	--	--	--	--	--	--	19	--
		WEST FRONTAGE ROAD SOUTH - TEMPORARY PAVEMENT														
			2863+87	-	2864+50	LT/RT	--	15	--	--	--	--	--	--	70	--
		WEST FRONTAGE ROAD NORTH - TEMPORARY PAVEMENT														
			4864+88	-	4868+00	LT/RT	--	23	--	--	--	--	--	--	110	--
		EAST FRONTAGE ROAD NORTH - TEMPORARY PAVEMENT														
			5859+76	-	5863+13	LT/RT	--	18	--	--	--	--	--	--	85	--
6000	2	STH 20														
			330+30	-	336+30	LT	--	28	110	124	45	--	--	--	--	--
		STAGE 2 SUBTOTAL					--	439	330	363	132	--	--	258	1,700	90
1000	3	STH 20														
			278+30	-	278+83	RT	--	--	--	--	--	--	--	34	--	--
			322+88	-	323+97	RT	--	33	130	142	52	--	--	--	--	--
		EAST FRONTAGE ROAD SOUTH														
			3852+73	-	3823+94	LT	--	--	--	--	--	--	--	32	--	--
			3855+70	-	3855+99	LT	--	--	--	--	--	--	--	10	--	--
		EAST FRONTAGE ROAD NORTH														
			5861+69	-	5863+14	LT	--	--	--	--	--	--	--	27	--	--
6000	3	STH 20														
			322+88	-	323+97	RT	--	8	30	32	12	--	--	--	--	--
		STAGE 3 SUBTOTAL					--	41	160	174	64	--	--	103	--	--
1000	4A	STH 20														
			260+64	-	262+66	LT/RT	--	--	--	--	--	--	48	--	--	--
		STAGE 4A SUBTOTAL						--	--	--	--	--	48	--	--	--

(CONTINUED ON NEXT SHEET)

ASPHALTIC PAVEMENT ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	460.6424 HMA PAVEMENT 4 MT 58-28 H TON	465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	614.0396 GUARDRAIL MOW STRIP ASPHALT TON
		CATEGORY 1000 SUBTOTAL					--	2,048	350	381	139	--	48	361	9,133	90
		CATEGORY 6000 SUBTOTAL					--	36	140	156	57	--	--	--	--	--
		PROJECT ID 1033-02-71 SUBTOTAL					--	2,084	490	537	196	--	48	361	9,133	90
		PROJECT ID 1033-02-76														
1000	1A	INTERNATIONAL DRIVE - OVERLAY														
			111+75	-	135+58	LT/RT	1,687	1,055	1,080	--	--	1,687	--	--	--	--
		STAGE 1A SUBTOTAL					1,687	1,055	1,080	--	--	1,687	--	--	--	--
		PROJECT ID 1033-02-76 SUBTOTAL					1,687	1,055	1,080	--	--	1,687	--	--	--	--
		CONTRACT TOTAL					1,687	3,139	1,570	537	196	1,687	48	361	9,133	90

COLD PATCH

CATEGORY	LOCATION	495.1000.S COLD PATCH TON
	PROJECT ID 1033-02-71	
1000	STH 20	
	UNDISTRIBUTED	10
	TOTAL	10

CONCRETE PAVEMENT GAPS

415.0210

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	CONCRETE PAVEMENT GAPS EACH
		PROJECT ID 1033-02-71					
1000	2	STH 20					
			270+90	-	271+29	LT	1
			278+59	-	278+86	LT	1
			282+89	-	283+13	LT	1
			287+13	-	287+63	LT	1
			291+93	-	292+52	LT	1
			302+48	-	303+14	LT	1
		WEST FRONTAGE ROAD SOUTH					
			2862+13	-	2862+64	RT	1
		WEST FRONTAGE ROAD NORTH					
			4866+44	-	4866+73	RT	1
			4867+55	-	4868+00	RT	1
		EAST FRONTAGE ROAD SOUTH					
			3852+88	-	2853+59	RT	1
		STAGE 2 SUBTOTAL					10

CONCRETE PAVEMENT GAPS (CONTINUED)

415.0210

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	CONCRETE PAVEMENT GAPS EACH
1000	3	STH 20					
			278+29	-	278+55	RT	1
			282+62	-	282+96	RT	1
			287+32	-	288+07	RT	1
			296+73	-	296+99	RT	1
			302+86	-	303+53	RT	1
			314+43	-	314+85	RT	1
		EAST FRONTAGE ROAD SOUTH					
			3853+02	-	3853+75	LT	1
		EAST FRONTAGE ROAD NORTH					
			5861+82	-	5862+17	RT	1
		STAGE 3 SUBTOTAL					8
		CONTRACT TOTAL					18

CONCRETE CURB & GUTTER ITEMS

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	* 416.0610 DRILLED TIE BARS LF	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0551 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A LF	601.0555 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	SPV.0090.0001 CONCRETE CURB & GUTTER 4-INCH SLOPED 60-INCH TYPE A LF	SPV.0090.0002 CONCRETE CURB & GUTTER 6-INCH SLOPED 24-INCH TYPE A LF
		PROJECT ID 1033-02-71													
1000	2	STH 20													
			260+64	-	278+00	LT/RT	--	--	--	--	--	493	--	--	--
			278+00	-	310+00	LT/RT	--	--	--	--	--	3,915	--	--	--
			310+00	-	330+30	LT/RT	--	--	--	--	--	1,113	--	--	--
		RAMP SW													
			858SW+57	-	862SW+77	LT	--	--	--	--	210	24	--	306	--
		RAMP NW													
			863NW+81	-	868NW+51	LT/RT	--	--	--	--	--	335	--	--	--
		RAMP SE													
			855SE+90	-	860SE+88	LT/RT	--	--	--	--	354	424	--	--	--
		RAMP NE													
			861NE+76	-	867NE+00	LT/RT	--	--	--	--	--	203	48	--	--
		WEST FRONTAGE ROAD SOUTH													
			2857+00	-	2864+58	LT/RT	--	112	61	42	--	626	--	--	--
		WEST FRONTAGE ROAD NORTH													
			4864+82	-	4868+06	LT/RT	--	--	--	--	--	350	112	--	--
		EAST FRONTAGE ROAD SOUTH													
			3849+39	-	3858+30	RT	--	--	32	8	--	542	--	--	--
		EAST FRONTAGE ROAD NORTH													
			5860+11	-	5863+16	LT/RT	--	--	--	21	--	581	--	--	--
6000	2	STH 20													
			278+00	-	310+00	LT/RT	--	--	--	--	--	--	--	--	--
			310+00	-	330+30	LT/RT	--	--	--	--	--	1,686	--	--	--
		RED CLOUD DRIVE													
			271+59	-	272+69	LT/RT	--	--	--	--	--	374	--	--	--
		STAGE 2 SUBTOTAL					--	112	93	71	564	10,666	160	306	--

*ADDITIONAL QUANTITIES ELSEWHERE

(CONTINUED ON NEXT SHEET)

CONCRETE CURB & GUTTER ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	* 416.0610 DRILLED TIE BARS LF	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0551 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A LF	601.0555 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	SPV.0090.0001 CONCRETE CURB & GUTTER 4-INCH SLOPED 60-INCH TYPE A LF	SPV.0090.0002 CONCRETE CURB & GUTTER 6-INCH SLOPED 24-INCH TYPE A LF
1000	3	STH 20													
			260+64	-	278+00	RT	--	--	--	--	--	1,893	--	--	--
			278+00	-	310+00	LT/RT	--	--	--	--	--	4,566	--	--	--
			310+00	-	330+30	LT/RT	--	--	--	--	--	717	--	--	12
		RAMP SW													
			858SW+57	-	862SW+77	LT/RT	--	--	--	--	--	231	--	--	--
		RAMP SE													
			855SE+90	-	860SE+88	LT/RT	--	--	--	--	364	237	--	--	--
		WEST FRONTAGE ROAD SOUTH													
			2857+00	-	2864+58	LT/RT	--	--	--	--	--	986	--	--	55
		WEST FRONTAGE ROAD NORTH													
			4864+82	-	4868+06	LT	--	--	--	--	--	467	--	--	--
		EAST FRONTAGE ROAD SOUTH													
			3849+39	-	3858+30	LT/RT	--	--	30	--	--	1,207	--	--	1,004
		EAST FRONTAGE ROAD NORTH													
			5860+11	-	5863+16	LT/RT	--	--	--	148	--	725	10	--	--
6000	3	STH 20													
			278+00	-	310+00	LT/RT	--	--	--	--	--	--	--	--	--
			310+00	-	330+30	LT/RT	--	--	--	--	--	332	--	--	12
		RED CLOUD DRIVE													
			269+77	-	270+56	LT	--	--	--	--	--	273	--	--	--
		STAGE 3 SUBTOTAL					--	--	30	148	364	11,634	10	--	1,083

*ADDITIONAL QUANTITIES ELSEWHERE

(CONTINUED ON NEXT SHEET)

CONCRETE CURB & GUTTER ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	* 416.0610 DRILLED TIE BARS LF	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0551 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A LF	601.0555 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	SPV.0090.0001 CONCRETE CURB & GUTTER 4-INCH SLOPED 60-INCH TYPE A LF	SPV.0090.0002 CONCRETE CURB & GUTTER 6-INCH SLOPED 24-INCH TYPE A LF
1000	4A	STH 20													
			260+64	-	278+00	LT/RT	211	--	--	--	--	1,537	--	--	--
			278+00	-	310+00	LT/RT	--	--	--	--	--	1,500	--	--	--
			310+00	-	330+30	LT/RT	--	--	--	--	--	133	--	--	--
		RAMP NW													
			864NW+03	-	865NW+00	LT	--	--	--	--	--	207	--	--	--
		WEST FRONTAGE ROAD NORTH													
			4864+82	-	4868+06	LT/RT	--	--	--	--	--	60	--	--	--
		EAST FRONTAGE ROAD NORTH													
			5859+84	-	5863+15	LT/RT	--	--	--	--	--	210	--	--	--
		STAGE 4A SUBTOTAL					211	--	--	--	--	3,647	--	--	--
1000	4B	RAMP NE													
			861NE+82	-	861NE+99	RT	--	--	--	--	--	61	--	--	--
		WEST FRONTAGE ROAD SOUTH													
			2857+00	-	2864+58	LT/RT	--	--	--	--	--	35	--	--	--
		WEST FRONTAGE ROAD NORTH													
			4864+92	-	4865+12	LT/RT	--	--	--	--	--	70	--	--	--
		EAST FRONTAGE ROAD SOUTH													
			3858+10	-	3858+24	LT	--	--	--	--	--	48	--	--	--
		EAST FRONTAGE ROAD NORTH													
			5859+79	-	5859+93	LT	--	--	--	--	--	32	--	--	--
		STAGE 4B SUBTOTAL					--	--	--	--	--	246	--	--	--
		CATEGORY 1000 SUBTOTAL					211	112	123	219	928	23,528	170	306	1,071
		CATEGORY 6000 SUBTOTAL					--	--	--	--	--	2,665	--	--	12
		CONTRACT TOTAL					211	112	123	219	928	26,193	170	306	1,083

*ADDITIONAL QUANTITIES ELSEWHERE

3

STORM SEWER GENERALNOTES

1) JOINT TIES FOR CONCRETE PIPE SHALL BE PROVIDED AT ALL CONCRETE APRON ENDWALLS. APRON ENDWALLS SHALL BE TIED FOR THE LAST THREE JOINTS AT PIPE ENDS. THE COST OF THESE TIES SHALL BE INCIDENTAL TO THE COST OF THE PIPE.
2) STATIONS AND OFFSETS ARE TO THE APRON END OF ENDWALLS.
STATION AND OFFSETS ARE TO THE FLANGE LINE FOR STRUCTURES IN THE ROADWAY WITH INLET GRATES, AND TO THE CENTER OF STRUCTURE FOR FIELD INLETS AND MANHOLES WITH SOLID LIDS.
3) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES.
4) RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES OR THE CENTER OF THE MANHOLE COVER FOR MANHOLES
5) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT - ADJUSTMENT
CASTING HEIGHT = 0.75 FT FOR J COVERS; 0.5 FT FOR TYPE H COVERS; 0.83 FT FOR TYPE V COVERS; 0 FT FOR TYPE MS COVERS
ADJUSTMENT (RINGS) = 0.33 FT FOR J, H AND V COVERS; 0 FT FOR TYPE MS COVERS
6) FLAT TOP SLAB WITH CENTERED 21" X 24" RECTANGULAR OPENING REQUIRED ON ALL MANHOLES WITH TYPE V INLET COVERS
7) FLAT TOP SLAB WITH CENTERED 21" X 24" RECTANGULAR OPENING REQUIRED ON TYPE 3 INLETS WITH TYPE V INLET COVERS
8) FLAT TOP SLAB WITH CENTERED 24" X 36" RECTANGULAR OPENING REQUIRED ON MANHOLES WITH TYPE HM INLET COVERS
9) REMOVAL OF SEALING PIPE (BRICK, BLOCK, MORTAR, PLASTER) TO BE INCIDENTAL TO STORM SEWER INSTALLATION

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	SPV.0060.0001 MANHOLES 9-FT DIAMETER EACH	SPV.0060.0002 MANHOLES 10-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.3253 INLETS 2.5X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0627 INLET COVERS TYPE HM EACH	611.0642 INLET COVERS TYPE MS EACH	611.0654 INLET COVERS TYPE V EACH	611.0666 INLET COVERS TYPE Z EACH	RIM OR FLANGE ELEV	STR DEPTH FT	FROM STR	TO STR	INVERT ELEVATION INLET ELEV	INVERT ELEVATION DISCHARGE ELEV	SLOPE
	PROJECT ID 1033-02-71																									
	STH 20																									
1000	101	265+65	54.99	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	779.93	3.90	101	102	775.20	774.75	0.71%
1000	102	265+65	10.79	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	779.54	4.46	102	104	774.25	771.00	1.40%
1000	103	268+00	57.69	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	776.37	3.89	103	104	771.65	771.50	0.21%
1000	104	268+00	16.95	LT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	776.31	4.48	104	107	771.00	767.50	1.43%
1000	105	270+38	20.13	LT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	773.23	3.90	105	107	768.50	768.25	1.79%
1000	106	270+43	60.16	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	772.64	3.91	106	107	767.90	767.70	0.29%
1000	107	270+44	5.38	LT	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	774.51	6.18	107	109	767.50	765.30	1.20%
1000	108	272+26	61.00	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	770.60	3.92	108	109	765.85	765.55	0.40%
1000	109	272+26	14.00	LT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	770.60	4.47	109	110	765.30	764.99	0.41%
1000	110	272+26	96.50	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	OUTFALL	--	764.99	--	--
1000	111	275+25	15.86	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	766.09	4.46	111	112	760.80	759.90	2.43%
1000	112	275+25	23.17	LT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	766.19	5.46	112	115	759.90	758.15	0.58%
1000	113	277+98	91.77	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	113	114	758.92	757.86	1.22%
1000	114	278+25	2.05	RT	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	762.48	3.83	114	115	757.82	757.79	0.18%
1000	115	278+25	15.64	LT	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	762.47	3.85	115	117	757.79	757.67	0.16%
1000	116	277+85	93.45	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	116	117	758.35	757.67	2.13%
1000	117	278+24	90.00	LT	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	760.71	1.97	117	118	757.67	757.25	0.30%
1000	118	279+61	90.00	LT	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	759.37	1.05	118	119	757.25	757.22	0.50%
1000	119	279+66	102.61	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	OUTFALL	--	757.22	--	--
1000	120	279+49	24.00	LT	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	762.40	4.02	120	121	757.55	757.45	0.40%
1000	121	279+24	23.74	LT	--	--	--	1	--	--	--	--	--	--	--	1	--	--	--	762.38	4.10	121	118	757.45	757.25	0.26%
1000	124	279+24	19.94	RT	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	762.52	4.09	124	121	757.60	757.45	0.36%
1000	125	279+49	21.00	RT	--	--	--	--	--	--	--	--	1	--	--	1	--	--	--	762.56	4.03	125	124	757.70	757.60	0.40%
1000	126	279+24	78.00	RT	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	762.04	3.41	126	124	757.80	757.60	0.33%
1000	127	279+49	78.00	RT	--	--	--	--	--	--	--	--	1	--	--	1	--	--	--	762.06	3.33	127	126	757.90	757.80	0.40%
1000	128	279+24	97.24	RT	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	760.14	2.12	128	126	757.85	757.80	0.26%
1000	129	282+85	5.00	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	765.85	5.12	129	120	759.90	757.55	0.70%
1000	130	283+14	5.00	LT	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	764.53	3.70	130	129	760.00	759.90	0.32%
1000	131	283+06	21.00	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	765.01	4.03	131	130	760.15	760.00	0.58%
1000	132	283+33	78.00	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	764.73	3.55	132	131	760.35	760.15	0.31%
1000	133	285+15	24.00	LT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	766.61	4.78	133	130	761.00	760.00	0.50%
1000	134	285+15	1.53	LT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	766.32	4.39	134	133	761.10	761.00	0.48%
1000	135	285+18	12.21	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	766.62	4.59	135	134	761.20	761.10	0.59%
1000	136	285+18	21.00	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	766.79	4.71	136	135	761.25	761.20	0.71%
1000	137	285+18	78.00	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	766.29	3.96	137	136	761.50	761.25	0.42%
	SUBTOTAL				4	5	2	1	2	--	4	10	2	1	2	28	1	--	--							
	STH 20																									
1000	601	307+68	32.00	LT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	767.52	5.34	601	602	761.35	759.91	1.55%
1000	602	307+68	131.08	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	OUTFALL	--	759.91	--	--
1000	603	310+75	21.00	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	766.60	2.57	603	604	763.20	763.03	0.25%
1000	604	310+75	96.35	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	OUTFALL	--	763.03	--	--
1000	605	310+75	31.92	LT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	766.60	5.27	605	606	760.50	758.47	2.21%
1000	606	310+75	129.90	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	OUTFALL	--	758.47	--	--
6000	609	314+54	21.00	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	764.75	5.17	609	610	758.75	758.45	0.71%
6000	610	314+54	22.58	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	764.75	5.72	610	612	758.20	756.85	0.95%
1000	611	315+96	12.38	LT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	763.88	6.45	611	612	756.60	756.45	2.14%
1000	612	315+95	21.00	LT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	764.05	7.02	612	613	756.20	755.66	0.61%
1000	613	315+95	114.75	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	OUTFALL	--	755.66	--	--
1000	614	318+50	117.58	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	614	615	755.10	754.15	0.85%
1000	615	318+50	0.36	LT	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	762.38	7.65	615	616	753.90	753.65	1.39%
1000	616	318+50	19.54	LT	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	762.78	8.55	616	617	753.40	752.32	1.12%
1000	617	318+50	121.52	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	OUTFALL	--	752.32	--	--
6000	618	321+98	94.76	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	762.25	3.92	618	619	757.50	757.40	1.11%
6000	619	321+87	96.38	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	762.16	3.93	619	620	757.40	756.30	1.09%
6000	620	321+24	21.00	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	761.47	4.59	620	621	756.05	755.85	2.50%
6000	621	321+24	11.00	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	761.36	4.93	621	622	755.60	755.20	1.18%
6000	622	321+01	11.00	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	761.02	5.24	622	623	754.95	754.85	1.25%
6000	623	321+01	19.97	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	761.56	6.13	623	624	754.60	753.18	1.18%
6000	624	320+15	112.76	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	OUTFALL	--	753.18	--	--
1000/6000	625	324+70	1.81	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	759.39	2.54	625	626	756.02	755.98	0.10%
1000	626	324+32	12.46	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	759.79	2.98	626	627	755.98	755.95	0.43%
1000	627	324+32	21.00	LT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	759.97	3.19	627	628	755.95	755.88	0.10%
1000	628	324+32	97.43	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	OUTFALL	--	755.88	--	--
	SUBTOTAL				1	2	--	--	--	--	8	7	--	--	--	18	--	--	--							

(CONTINUED ON NEXT SHEET)

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	SPV.0060.0001 MANHOLES 9-FT DIAMETER EACH	SPV.0060.0002 MANHOLES 10-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.3253 INLETS 2.5X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0627 INLET COVERS TYPE HM EACH	611.0642 INLET COVERS TYPE MS EACH	611.0654 INLET COVERS TYPE V EACH	611.0666 INLET COVERS TYPE Z EACH	RIM OR FLANGE ELEV	STR DEPTH FT	FROM STR	TO STR	INVERT ELEVATION INLET ELEV	INVERT ELEVATION DISCHARGE ELEV	SLOPE
	PROJECT ID 1033-02-71																									
	EAST FRONTAGE ROAD SOUTH																					EAST FRONTAGE ROAD SOUTH					
1000	501	3852+55	54.90	LT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	772.35	3.02	501	502	768.50	768.20	0.55%
1000	502	3852+83	10.39	LT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	773.31	4.53	502	503	767.95	767.85	1.25%
1000	503	3852+84	1.47	LT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	772.81	4.48	503	504	767.50	767.30	0.63%
1000	504	3852+85	28.00	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	772.31	4.43	504	508	767.05	764.95	1.05%
1000	505	3854+24	57.76	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	771.03	4.30	505	506	765.90	765.35	0.77%
1000	506	3854+80	17.72	LT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	770.74	4.81	506	507	765.10	765.00	0.50%
1000	507	3855+00	12.75	LT	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	770.93	5.35	507	508	764.75	764.20	1.20%
1000	508	3854+85	28.00	RT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	770.33	5.55	508	509	763.95	762.75	0.73%
1000	509	3856+56	28.00	RT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	767.87	4.79	509	515	762.25	761.30	0.63%
1000	510	3857+92	55.02	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	766.55	4.92	510	515	760.80	760.55	0.71%
1000	511	3857+99	97.40	LT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	765.83	2.90	511	512	762.10	761.85	0.58%
1000	512	3858+14	58.00	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	766.61	4.18	512	513	761.60	761.40	0.65%
1000	513	3858+09	30.00	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	766.74	4.76	513	514	761.15	761.10	0.83%
1000	514	3858+09	22.00	LT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	766.75	5.07	514	515	760.85	760.55	0.57%
1000	515	3858+13	28.00	RT	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	766.74	5.61	515	519A	760.30	759.50	0.70%
1000	516	3858+83	66.62	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	767.27	5.19	516	517	761.25	761.00	2.27%
1000	517	3858+95	69.92	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	766.39	5.06	517	518	760.50	760.40	0.48%
	EAST FRONTAGE ROAD NORTH																					EAST FRONTAGE ROAD NORTH					
1000	518	5858+97	70.75	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	766.79	5.81	518	519	760.15	760.00	0.88%
1000	519	5859+16	70.76	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	767.02	6.44	519	519A	759.75	759.50	1.92%
1000	519A	5859+14	58.16	RT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	766.97	7.72	519A	520A	759.25	758.50	0.87%
1000	520	5860+05	73.29	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	766.21	5.38	520	520A	760.00	759.00	2.94%
1000	520A	5859+98	41.00	RT	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	766.71	8.46	520A	527A	758.25	756.75	0.88%
1000	521	5859+95	82.48	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	765.71	4.38	521	522	760.50	759.65	1.04%
1000	522	5859+94	2.06	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	766.77	6.54	522	523	759.40	759.25	1.36%
1000	523	5859+94	10.06	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	766.83	7.00	523	520A	759.00	758.50	1.52%
1000	524	5863+04	40.21	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	765.10	4.32	524	527	759.95	759.10	1.98%
1000	525	5863+05	50.95	LT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	764.09	4.31	525	526	758.95	758.50	1.05%
1000	526	5863+05	10.39	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	765.27	6.94	526	527	757.50	757.35	1.67%
1000	527	5863+04	0.00	C/L	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	765.12	9.19	527	528	755.10	754.72	2.24%
1000	527A	5861+68	45.00	RT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	766.46	9.96	527A	527	756.50	755.35	0.80%
1000	528E	5863+20	0.58	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	764.50	--	528E	--	754.47	--	--
	WEST FRONTAGE ROAD SOUTH																					WEST FRONTAGE ROAD SOUTH					
1000	201	2858+00	41.46	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	201	204	774.23	770.25	3.18%
1000	202	2859+33	52.85	RT	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	776.00	4.44	202	204	770.65	770.50	0.58%
1000	203	2859+50	73.97	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	203	204	774.00	771.50	2.60%
1000	204	2859+33	27.15	RT	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	777.10	6.03	204	206	770.00	769.30	0.59%
1000	205	2860+53	47.44	RT	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	775.02	4.21	205	206	769.90	769.65	1.14%
1000	206	2860+54	26.46	RT	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--	775.17	5.05	206	207	769.05	765.05	2.25%
1000	207	2862+34	25.33	RT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	770.77	5.14	207	212	764.80	762.00	1.41%
1000	209	2864+07	199.15	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	770.93	4.60	209	210	765.50	765.00	2.17%
1000	210	2864+29	199.15	RT	--	--	--	--	--	--	1	--	--	--	1	--	--	--	--	767.57	3.50	210	211	763.00	762.50	0.40%
1000	211	2864+30	73.39	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	767.78	4.70	211	212	762.25	762.00	0.45%
1000	212	2864+35	18.00	RT	--	--	--	--	1	--	--	--	--	--	--	1	--	--	--	768.32	5.74	212	217	761.75	760.00	1.45%
1000	213	2864+10	81.65	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	768.47	4.29	213	214	763.35	763.00	0.65%
1000	214	2864+00	30.94	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	768.66	5.08	214	215	762.75	762.70	0.62%
1000	215	2864+00	21.86	LT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	768.59	5.31	215	212	762.45	762.00	0.82%
	WEST FRONTAGE ROAD NORTH																					WEST FRONTAGE ROAD NORTH					
1000	216	4864+47	139.33	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	768.08	4.30	216	217	762.95	760.50	2.33%
1000	217	4864+51	34.83	RT	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--	768.50	7.68	217	219	759.75	758.00	1.39%
1000	219	4865+76	30.21	RT	--	--	--	--	1	--	--	--	--	--	--	1	--	--	--	766.55	7.97	219	222	757.75	754.50	2.26%
1000	220	4866+14	0.02	RT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	765.50	5.47	220	219	759.20	758.75	0.88%
1000	221	4866+14	9.98	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	765.25	4.92	221	220	759.50	759.45	0.62%
1000	222	4867+15	30.80	RT	--	--	--	--	1	--	--	--	--	--	--	1	--	--	--	763.87	8.79	222	225E	754.25	752.50	1.77%
1000	223	4867+30	42.35	LT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	760.66	4.33	223	224	755.50	755.25	0.57%
1000	224	4867+25	0.93	RT	--	--	1	--	--	--	--	--	--	--	--	--	--	--	1	762.48	6.40	224	222	755.00	754.50	1.47%
1000	225E	4868+03	11.71	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	760.38	--	225E	--	752.48	--	--
	SUBTOTAL				11	3	2	--	3	1	21	9	--	--	4	43	--	1	2			SUBTOTAL				

(CONTINUED ON NEXT SHEET)

STORM SEWER ITEMS (CONTINUED)

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	SPV.0060.0001 MANHOLES 9-FT DIAMETER EACH	SPV.0060.0002 MANHOLES 10-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.3253 INLETS 2.5X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0627 INLET COVERS TYPE HM EACH	611.0642 INLET COVERS TYPE MS EACH	611.0654 INLET COVERS TYPE V EACH	611.0666 INLET COVERS TYPE Z EACH	RIM OR FLANGE ELEV	STR DEPTH FT	FROM STR	TO STR	INVERT ELEVATION INLET ELEV	INVERT ELEVATION DISCHARGE ELEV	SLOPE
	PROJECT ID 1033-02-71																									
	RAMP SW																						RAMP SW			
1000	301	859SW+10	42.95	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	301	304	767.32	761.90	45.17%
1000	302	859SW+29	64.71	LT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	772.75	8.67	302	304	763.25	762.15	5.00%
1000	303	859SW+29	15.00	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	768.59	2.96	303	304	764.80	761.90	4.75%
1000	304	859SW+29	43.00	LT	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	766.30	3.58	304	307	761.65	759.85	0.74%
1000	305	861SW+48	72.01	LT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	769.44	5.61	305	307	763.00	760.10	5.09%
1000	306	861SW+74	17.66	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	764.80	3.22	306	307	760.75	759.90	2.18%
1000	307	861SW+70	18.67	LT	--	--	--	1	--	--	--	--	--	--	--	1	--	--	--	764.02	3.34	307	309	759.85	759.40	0.30%
1000	308	862SW+60	95.58	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	765.50	4.67	308	309	760.00	759.50	0.58%
1000	309	291+97	8.00	RT	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	765.59	5.36	309	310	759.40	759.20	0.51%
	RAMP NW																						RAMP NW			
1000	310	863NW+50	12.20	LT	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	765.82	5.89	310	311	759.10	758.60	0.67%
1000	311	864NW+23	19.71	LT	--	--	--	1	--	--	--	--	--	--	1	--	--	--	--	765.34	5.77	311	313	758.50	758.15	0.46%
1000	311A	864NW+45	54.68	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	765.25	4.42	311A	311	760.00	759.00	2.33%
1000	312	864NW+97	0.00	C/L	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	764.14	5.06	312	313	758.25	758.15	1.43%
1000	313	864NW+97	8.86	LT	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	763.94	5.06	313	316	758.05	757.80	0.48%
1000	314	865NW+62	39.00	RT	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	764.17	5.50	314	315	758.50	758.30	2.50%
1000	315	865NW+59	24.00	RT	--	--	--	--	--	--	1	--	--	--	--	--	--	1	--	764.26	4.98	315	316	758.20	757.80	0.74%
1000	316	865NW+47	19.90	LT	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	763.14	4.61	316	317	757.70	759.25	-3.30%
1000	317	865NW+97	41.62	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	OUTFALL	--	759.25	--	--
	RAMP SE																						RAMP SE			
1000	401	856SE+00	18.00	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	771.55	4.42	401	403	766.30	760.50	2.89%
1000	402	858SE+00	24.00	LT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	767.65	4.42	402	403	762.40	760.50	3.80%
1000	403	858SE+00	24.00	RT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	766.69	5.86	403	404	760.00	758.20	1.03%
1000	404	859SE+80	40.11	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	761.61	3.08	404	410	757.70	757.35	0.51%
1000	405	859SE+22	362.52	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	405	408	765.59	759.80	7.72%
1000	406	861SE+30	305.41	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	764.61	3.88	406	407	759.90	759.80	1.43%
1000	407	861SE+22	305.02	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	764.77	4.39	407	408	759.55	759.25	0.51%
1000	408	860SE+65	302.36	RT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	764.27	4.44	408	409	759.00	758.00	0.49%
1000	409	860SE+53	98.79	RT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	762.48	3.90	409	410	757.75	757.35	0.50%
1000	410	860SE+49	20.36	RT	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	762.63	4.70	410	411	757.10	757.00	0.53%
1000	411	860SE+50	0.00	C/L	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	762.78	5.20	411	413	756.75	756.15	0.56%
1000	412	860SE+92	108.46	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	762.53	3.80	412	413	757.90	757.65	2.50%
1000	413	860SE+91	98.47	LT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	762.49	5.76	413	414	755.90	755.55	0.55%
1000	414	861SE+53	95.88	LT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	762.54	6.41	414	417	755.30	755.20	0.71%
1000	415	861SE+34	29.39	RT	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	763.13	3.80	415	416	758.50	758.20	1.11%
	RAMP NE																						RAMP NE			
1000	416	861NE+19	46.77	RT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	762.68	4.40	416	417	757.45	755.20	1.77%
1000	417	861NE+19	79.26	LT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	762.33	6.55	417	424	754.95	754.55	0.54%
1000	418	861NE+91	89.59	LT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	762.53	3.80	418	424	757.90	757.80	1.67%
1000	419	861NE+19	390.79	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	764.62	4.39	419	420	759.40	759.25	1.00%
1000	420	861NE+35	390.71	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	765.00	5.17	420	421	759.00	758.90	1.67%
1000	421	862NE+01	390.73	RT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	764.67	5.19	421	422	758.65	757.10	0.54%
1000	422	862NE+05	103.54	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	762.92	5.24	422	423	756.85	756.75	1.67%
1000	423	861NE+96	5.05	RT	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	762.76	5.43	423	424	756.50	754.55	2.27%
1000	424	861NE+91	79.59	LT	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	762.49	7.36	424	425	754.30	753.29	0.66%
1000	425	863NE+60	47.34	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	OUTFALL	--	753.29	--	--
	SUBTOTAL				9	5	1	2	--	1	11	9	--	1	2	35	1	1	--							
1000	UNDISTRIBUTED																									
	CATEGORY 1000 SUBTOTAL				25	15	5	3	5	2	37	33	2	2	8	115	2	2	2							
	CATEGORY 6000 SUBTOTAL				--	--	--	--	--	--	7	2	--	--	--	9	--	--	--							
	CONTRACT TOTAL				25	15	5	3	5	2	44	35	2	2	8	124	2	2	2							

(CONTINUED ON NEXT SHEET)

STORM SEWER ITEMS (CONTINUED)

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	608.0442 42-INCH LF	608.2319 19x30-INCH LF	608.2324 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 24x38-INCH LF	608.2329 29x45-INCH LF	608.2338 38x60-INCH LF	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1024 24-INCH EACH	522.1030 30-INCH EACH	522.1036 36-INCH EACH	522.1042 42-INCH EACH	522.2624 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24x38-INCH EACH	522.2629 29x45-INCH EACH	522.2638 38x60-INCH EACH	633.5200 MARKERS CULVERT END EACH	SPV.0035.0004 BACKFILL SLURRY CY	SPV.0060.0010 RECONNECT STORM SEWER EACH	NOTES
	PROJECT ID 1033-02-71																								
	STH 20																								
1000	101	265+65	54.99	RT	66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	102	265+65	10.79	LT	--	236	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	103	268+00	57.69	RT	75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	104	268+00	16.95	LT	--	244	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	105	270+38	20.13	LT	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	106	270+43	60.16	RT	68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	107	270+44	5.38	LT	--	184	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	108	272+26	61.00	RT	75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	109	272+26	14.00	LT	--	76		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	110	272+26	96.50	LT	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	
1000	111	275+25	15.86	RT	--	37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	112	275+25	23.17	LT	--	300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	113	277+98	91.77	RT	--	--	--	--	--	--	--	87	--	--	--	--	--	--	--	1	--	1	--	--	
1000	114	278+25	2.05	RT	--	--	--	--	--	--	--	17	--	--	--	--	--	--	--	--	--	--	--	--	
1000	115	278+25	15.64	LT	--	--	--	--	--	--	--	76	--	--	--	--	--	--	--	--	--	--	--	--	
1000	116	277+85	93.45	LT	--	--	--	32	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1	--	
1000	117	278+24	90.00	LT	--	--	--	--	--	--	--	--	138	--	--	--	--	--	--	--	--	--	--	--	
1000	118	279+61	90.00	LT	--	--	--	--	--	--	--	--	6	--	--	--	--	--	--	--	--	--	--	--	
1000	119	279+66	102.61	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	--	
1000	120	279+49	24.00	LT	--	--	--	--	--	--	25	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	121	279+24	23.74	LT	--	--	--	--	--	--	77	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	124	279+24	19.94	RT	--	--	--	--	--	--	42	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	125	279+49	21.00	RT	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	126	279+24	78.00	RT	--	--	--	--	--	--	61	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	127	279+49	78.00	RT	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	128	279+24	97.24	RT	--	--	--	--	--	--	19	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	129	282+85	5.00	LT	--	337	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	130	283+14	5.00	LT	--	31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	131	283+06	21.00	RT	--	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	132	283+33	78.00	RT	--	65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	133	285+15	24.00	LT	--	202	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	134	285+15	1.53	LT	--	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	135	285+18	12.21	RT	--	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	136	285+18	21.00	RT	--	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	137	285+18	78.00	RT	--	59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	SUBTOTAL				348	1,842	--	32	--	--	224	180	144	--	1	--	1	--	--	1	1	4	--	--	
	STH 20																								
1000	601	307+68	32.00	LT	93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	602	307+68	131.08	LT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	--	
1000	603	310+75	21.00	RT	69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	604	310+75	96.35	RT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	--	
1000	605	310+75	31.92	LT	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	606	310+75	129.90	LT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	--	
6000	609	314+54	21.00	RT	42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6000	610	314+54	22.58	LT	142	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	611	315+96	12.38	LT	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	612	315+95	21.00	LT	--	88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	613	315+95	114.75	LT	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	1	--	--	
1000	614	318+50	117.58	RT	--	--	--	--	112	--	--	--	--	--	--	--	--	1	--	--	--	1	--	--	
1000	615	318+50	0.36	LT	--	--	--	--	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	616	318+50	19.54	LT	--	--	--	--	96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	617	318+50	121.52	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	--	--	
6000	618	321+98	94.76	RT	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6000	619	321+87	96.38	RT	101	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6000	620	321+24	21.00	RT	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6000	621	321+24	11.00	RT	34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6000	622	321+01	11.00	LT	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6000	623	321+01	19.97	LT	--	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6000	624	320+15	112.76	LT	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	
1000/6000	625	324+70	1.81	LT	41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	626	324+32	12.46	LT	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	627	324+32	21.00	LT	70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	628	324+32	97.43	LT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	--	
	SUBTOTAL				723	208	--	--	226	--	--	--	--	4	2	--	--	2	--	--	--	8	--	--	

(CONTINUED ON NEXT SHEET)

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	608.0442 42-INCH LF	608.2319 19x30-INCH LF	608.2324 24x38-INCH LF	608.2329 29x45-INCH LF	608.2338 38x60-INCH LF	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1024 24-INCH EACH	522.1030 30-INCH EACH	522.1036 36-INCH EACH	522.1042 42-INCH EACH	522.2624 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24x38-INCH EACH	522.2629 29x45-INCH EACH	522.2638 38x60-INCH EACH	633.5200 MARKERS CULVERT END EACH	SPV.0035.0004 BACKFILL SLURRY CY	SPV.0060.0010 RECONNECT STORM SEWER EACH	NOTES
	PROJECT ID 1033-02-71																									
	EAST FRONTAGE ROAD SOUTH																									
1000	501	3852+55	54.90	LT	55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	502	3852+83	10.39	LT	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	503	3852+84	1.47	LT	32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	504	3852+85	28.00	RT	--	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	505	3854+24	57.76	LT	--	71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	506	3854+80	17.72	LT	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	507	3855+00	12.75	LT	--	46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	508	3854+85	28.00	RT	--	164	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	509	3856+56	28.00	RT	--	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	510	3857+92	55.02	RT	--	35		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	511	3857+99	97.40	LT	43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	512	3858+14	58.00	LT	31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	513	3858+09	30.00	LT	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	514	3858+09	22.00	LT	--	53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	515	3858+13	28.00	RT	--	--	114	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	516	3858+83	66.62	RT	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	517	3858+95	69.92	RT	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	EAST FRONTAGE ROAD NORTH																									
1000	518	5858+97	70.75	RT	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	519	5859+16	70.76	RT	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	519A	5859+14	58.16	RT	--	--	86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	520	5860+05	73.29	RT	--	34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	520A	5859+98	41.00	RT	--	--	170	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	521	5859+95	82.48	LT	--	82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	522	5859+94	2.06	LT	--	11		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	523	5859+94	10.06	RT	--	33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	524	5863+04	40.21	RT	--	43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	525	5863+05	50.95	LT	--	43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	526	5863+05	10.39	LT	--	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	527	5863+04	0.00	C/L	--	--	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	CONNECT PIPE TO EXISTING MANHOLE 528
1000	527A	5861+68	45.00	RT	--	--	144	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	528E	5863+20	0.58	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	EXISTING MANHOLE
	WEST FRONTAGE ROAD SOUTH																									
1000	201	2858+00	41.46	RT	--	--	125	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	1	--	--	
1000	202	2859+33	52.85	RT	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	203	2859+50	73.97	LT	--	96	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	--	
1000	204	2859+33	27.15	RT	--	--	119	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	205	2860+53	47.44	RT	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	206	2860+54	26.46	RT	--	--	178	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	207	2862+34	25.33	RT	--	--	199	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	209	2864+07	199.15	RT	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	210	2864+29	199.15	RT	126	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	211	2864+30	73.39	RT	--	56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	212	2864+35	18.00	RT	--	--	121	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	213	2864+10	81.65	LT	54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	214	2864+00	30.94	LT	--	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	215	2864+00	21.86	LT	--	55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	WEST FRONTAGE ROAD NORTH																									
1000	216	4864+47	139.33	RT	--	105	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	217	4864+51	34.83	RT	--	--	126	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	219	4865+76	30.21	RT	--	--	144	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	220	4866+14	0.02	RT	--	51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	221	4866+14	9.98	LT	--	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	222	4867+15	30.80	RT	--	--	99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	223	4867+30	42.35	LT	--	44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	224	4867+25	0.93	RT	--	34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	CONNECT PIPE TO EXISTING MANHOLE 225
1000	225E	4868+03	11.71	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	EXISTING MANHOLE
	SUBTOTAL				488	1,452	1,642	--	--	--	--	--	--	1	1	--	--	--	--	--	--	2	--	2		

(CONTINUED ON NEXT SHEET)

STORM SEWER ITEMS (CONTINUED)

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	608.0442 42-INCH LF	608.2319 19x30-INCH LF	608.2324 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 24x38-INCH LF	608.2329 29x45-INCH LF	608.2338 38x60-INCH LF	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1024 24-INCH EACH	522.1030 30-INCH EACH	522.1036 36-INCH EACH	522.1042 42-INCH EACH	522.2624 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24x38-INCH EACH	522.2629 29x45-INCH EACH	522.2638 38x60-INCH EACH	633.5200 MARKERS CULVERT END EACH	SPV.0035.0004 BACKFILL SLURRY CY	SPV.0060.0010 RECONNECT STORM SEWER EACH	NOTES
	PROJECT ID 1033-02-71																								
	RAMP SW																								
1000	301	859SW+10	42.95	LT	--	--	--	--	--	--	12	--	--	--	--	--	--	--	1	--	--	1	--	--	
1000	302	859SW+29	64.71	LT	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	303	859SW+29	15.00	RT	61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	304	859SW+29	43.00	LT	--	--	--	--	--	--	242	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	305	861SW+48	72.01	LT	57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	306	861SW+74	17.66	RT	39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	307	861SW+70	18.67	LT	--	--	--	--	--	--	151	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	308	862SW+60	95.58	LT	--	--	--	--	--	86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	309	291+97	8.00	RT	--	--	--	--	--	--	39	--	--	--	--	--	--	--	--	--	--	--	--	--	
	RAMP NW																								
1000	310	863NW+50	12.20	LT	--	--	--	--	--	--	75	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	311	864NW+23	19.71	LT	--	--	--	--	--	--	76	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	311A	864NW+45	54.68	LT	--	43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	312	864NW+97	0.00	C/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	313	864NW+97	8.86	LT	--	--	--	--	--	--	52	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	314	865NW+62	39.00	RT	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	315	865NW+59	24.00	RT	--	54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	316	865NW+47	19.90	LT	--	--	--	--	--	--	47	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	317	865NW+97	41.62	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	
	RAMP SE																								
1000	401	856SE+00	18.00	RT	--	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	402	858SE+00	24.00	LT	--	50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	403	858SE+00	24.00	RT	--	174	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	404	859SE+80	40.11	RT	--	69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	405	859SE+22	362.52	RT	--	--	75	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1	--	--	
1000	406	861SE+30	305.41	RT	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	407	861SE+22	305.02	RT	--	59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	408	860SE+65	302.36	RT	--	--	204	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	409	860SE+53	98.79	RT	--	--	80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	410	860SE+49	20.36	RT	--	--	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	411	860SE+50	0.00	C/L	--	--	108	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	412	860SE+92	108.46	LT	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	413	860SE+91	98.47	LT	--	--	64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	414	861SE+53	95.88	LT	--	--	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	415	861SE+34	29.39	RT	27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	RAMP NE																								
1000	416	861NE+19	46.77	RT	--	127	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	417	861NE+19	79.26	LT	--	--	74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	418	861NE+91	89.59	LT	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	419	861NE+19	390.79	RT	--	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	420	861NE+35	390.71	RT	--	68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	421	862NE+01	390.73	RT	--	287	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	422	862NE+05	103.54	RT	--	99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	423	861NE+96	5.05	RT	--	86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	424	861NE+91	79.59	LT	--	--	154	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1000	425	863NE+60	47.34	LT	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1	--	--	
	SUBTOTAL				248	1,332	792	--	--	86	694	--	--	--	--	2	--	--	2	--	--	4	--	--	
1000	UNDISTRIBUTED				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	500	--	
	CATEGORY 1000 SUBTOTAL				1,463	4,714	2,434	32	226	86	918	180	144	4	3	3	1	2	2	1	1	17	500	2	
	CATEGORY 6000 SUBTOTAL				344	120	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	1	--	--	
	CONTRACT TOTAL				1,807	4,834	2,434	32	226	86	918	180	144	4	4	3	1	2	2	1	1	18	500	2	

3

CULVERT ITEMS

CATEGORY	STAGE	ROADWAY	INLET END STATION	INLET END OFFSET	INLET END ELEV	DISCHARGE END STATION	DISCHARGE END OFFSET	DISCHARGE END ELEV	SLOPE	204.0270 ABANDONING CULVERT PIPES EACH	204.0275 CLOSING CULVERT PIPES EACH	520.1012 APRON ENDWALLS FOR CULVERT PIPE 12-INCH EACH	520.1036 APRON ENDWALLS FOR CULVERT PIPE 36-INCH EACH	520.2012 CULVERT PIPE TEMPORARY 12-INCH LF	520.3336 CULVERT PIPE CLASS III-A 36-INCH LF	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	521.3118 CULVERT PIPE CORRUGATED STEEL 18-INCH LF
		PROJECT ID 1033-02-71															
1000	1A	STH 20															
			327+57	11.79' RT	--	327+76	67.13' RT	--	--	--	1	--	--	--	--	--	--
			327+59	2.89' RT	754.77	330+25	73.96' LT	754.07	0.3%		--	2	--	277	--	--	--
		STAGE 1A SUBTOTAL								--	1	2	--	277	--	--	--
1000	2	STH 20															
			283+25	92.74' LT	761.25	282+71	92.69' LT	760.91	0.6%	--	--	--	--	--	--	2	54
			313+92	128.00' LT	761.59	315+00	128.00' LT	760.45	1.2%	--	--	--	2	--	98	--	--
		STAGE 2 SUBTOTAL								--	--	--	2	--	98	2	54
1000	3	STH 20															
			314+05	101.24' RT	760.17	314+80	113.62' RT	757.60	4.0%	--	--	--	2	--	65	--	--
			273+70	73.00' RT	766.27	274+15	73.00' RT	765.23	2.3%	--	--	--	--	--	--	2	45
			327+59	2.89' RT	--	330+25	73.96' LT	--	--	1	--	--	--	--	--	--	--
		STAGE 3 SUBTOTAL								1	--	--	2	--	65	2	45
		CONTRACT TOTAL								1	1	2	4	277	163	4	99

NOTE
1) PIPE OFFSETS AND ELEVATIONS ARE TO THE CENTER OF PIPE.

ADJUSTING INLET ITEMS

CATEGORY	STAGE	ROADWAY	STATION	OFFSET	611.8115 ADJUSTING INLET COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	611.9710 SALVAGED INLET COVERS EACH
		PROJECT ID 1033-02-71					
1000	1A	STH 20					
			286+95	58.24' RT	--	1	--
			292+40	54.26' RT	--	1	--
		RAMP SE					
			860SE+70	9.87' RT	--	1	--
		EAST FRONTAGE ROAD - SOUTH					
			3849+49	0.00' LT/RT	1	1	1
			3850+71	13.29' LT	1	1	1
			3850+72	0.00' LT/RT	1	1	1
		STAGE 1A SUBTOTAL			3	6	3
1000	1B	STH 20					
			284+90	24.76' RT	--	1	--
			284+90	17.99' RT	--	1	--
			289+06	25.50' RT	--	1	--
		WEST FRONTAGE ROAD - SOUTH					
			2862+61	28.66' LT	--	1	--
		STAGE 1B SUBTOTAL			--	4	--
1000	2	STH 20					
			265+65	10.79' LT	--	1	--
			268+00	16.95' LT	--	1	--
			270+38	20.13' LT	--	1	--
			275+25	23.17' LT	--	1	--
			282+85	5.00' LT	--	1	--
			285+15	24.00' LT	--	1	--
			291+97	8.00' RT	--	1	--
			307+68	32.00' LT	--	1	--
		IH 94 SB					
			871+84	73.25' LT	1	--	1
			872+00	73.25' LT	1	--	1
			873+45	73.25' LT	1	--	1
		RAMP SW					
			861NW+19	46.77' RT	--	1	--
			861NW+96	5.05' RT	--	1	--
		RAMP NW					
			863NW+50	12.20' LT	--	1	--
			864NW+23	19.73' LT	--	1	--
			864NW+97	0.00' C/L	--	1	--
			864NW+97	8.86 LT	--	1	--
			873NW+45	15.49' RT	1	--	1

ADJUSTING INLET ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	OFFSET	611.8115 ADJUSTING INLET COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	611.9710 SALVAGED INLET COVERS EACH
1000	2	WEST FRONTAGE ROAD - NORTH					
			4864+47	139.33' RT	--	1	--
			4864+51	34.83' RT	--	1	--
			4867+25	0.93' RT	--	1	--
		EAST FRONTAGE ROAD - NORTH					
			5858+97	70.75' RT	--	1	--
			5859+16	70.76' RT	--	1	--
			5859+94	2.06' LT	--	1	--
			5859+94	10.06' RT	--	1	--
			5863+05	10.39' LT	--	1	--
			5863+04	0.00' C/L	--	1	--
		STAGE 2 SUBTOTAL			4	23	4
1000	3	EAST FRONTAGE ROAD - SOUTH					
			3858+14	58.00' LT	--	1	--
		STAGE 3 SUBTOTAL			--	1	--
		CONTRACT TOTAL			7	34	7

DRAIN SLOTTED VANE

CATEGORY	STAGE	ROADWAY	FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	SPV.0090.0004 DRAIN SLOTTED VANE LONGITUDINAL TEMPORARY LF
		PROJECT ID 1033-02-71					
1000	1B	STH 20					
		WEST CROSSOVER	263+44	4.46' LT	266+41	4.56' LT	297
		EAST CROSSOVER	334+75	17.25' RT	335+66	7.60' RT	226
		STAGE 1B SUBTOTAL					523
		CONTRACT TOTAL					523

1) WEST CROSSOVER - CONNECT DRAIN SLOTTED VANE TO EXISTING INLET AT STA 265+73, 4' RT.

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\030202_mq_dra.ppt PLOT DATE : 12/12/2019 12:22:30 PM PLOT BY : MSCCEJ PLOT NAME : 030202_mq_dra9 PLOT SCALE : 1:1

PIPE UNDERDRAIN ITEMS

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	612.0106 PIPE UNDERDRAIN 6-INCH LF	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY
		PROJECT ID 1033-02-71						
1000	2	STH 20						
			265+07	-	324+70	MEDIAN	5,970	3,317
			275+50	-	283+50	LT	800	445
			287+94	-	306+72	LT	1,880	1,045
		RAMP SW						
			858SW+57	-	860SW+00	RT	150	84
			859SW+00	-	861SW+63	LT	270	150
		RAMP NW						
			864NW+00	-	866NW+00	LT	200	112
			854NW+00	-	865NW+07	MEDIAN	1,110	617
		RAMP SE						
			855SE+90	-	860SE+87	RT	500	278
			859SE+42	-	860SE+25	MEDIAN	90	50
		WEST FRONTAGE ROAD - SOUTH						
			2857+79	-	2861+67	RT	390	217
			2861+67	-	2864+58	RT	300	167
		WEST FRONTAGE ROAD - NORTH						
			4864+91	-	4868+00	LT	310	173
			4864+91	-	4865+75	RT	90	50
		EAST FRONTAGE ROAD - SOUTH						
			3852+25	-	3857+89	RT	570	317
		EAST FRONTAGE ROAD - NORTH						
			5859+70	-	5863+16	LT	346	193
			5859+70	-	5863+16	RT	346	193
		STAGE 2 SUBTOTAL					13,322	7,408

PIPE UNDERDRAIN ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	612.0106 PIPE UNDERDRAIN 6-INCH LF	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY
1000	3	STH 20						
			265+07	-	306+72	RT	4,170	20,850
			271+50	-	321+24	MEDIAN	4,980	24,900
			285+00	-	287+00	MEDIAN	200	112
			299+50	-	302+30	LT	280	156
		RAMP SW						
			861SW+63	-	862SW+37	RT	80	45
		RAMP SE						
			855SE+90	-	860SE+87	RT	500	278
		WEST FRONTAGE ROAD - SOUTH						
			2863+86	-	2864+58	RT	80	45
		EAST FRONTAGE ROAD - SOUTH						
			3852+25	-	3853+87	LT	170	95
			3853+87	-	3858+30	MEDIAN	450	250
			3857+89	-	3858+30	RT	50	28
		STAGE 3 SUBTOTAL					1,810	1,009
		CONTRACT TOTAL					15,132	8,417

EXCAVATION SPECIAL

CATEGORY	STAGE	ROADWAY	STATION		TO STATION	205.0501.S EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL TON
		PROJECT ID 1033-02-71				
1000	2 & 3	STH 20				
			286+80	-	290+00	782
		RAMP SW				
			293+37	-	294+90	6,290
		CONTRACT TOTAL				7,072

GUARDRAIL ITEMS

CATEGORY	STAGE	ROADWAY	STATION		TO STATION	OFFSET	614.2300 MGS GUARDRAIL 3 LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.2620 MGS GUARDRAIL TERMINAL TYPE 2 EACH
		PROJECT ID 1033-02-71							
1000	2	STH 20							
			293+37	-	294+90	LT	67	1	1
		CONTRACT TOTAL					67	1	1

PERMANENT CRASH CUSHION ITEMS

CATEGORY	STAGE	ROADWAY	STATION	OFFSET	614.0800 CRASH CUSHIONS PERMANENT EACH	CRASH TEST LEVEL**	TRAFFIC DIRECTION**	TRAFFIC LOCATION**	CRASH CUSHION SHIELDS**
		PROJECT ID 1033-02-71							
1000	2	IH 94 SB							
			873+55	78.75' LT	1	TL-3	SB	LEFT	BARRIER WALL END
		CONTRACT TOTAL			1				

**FOR INFORMATION ONLY

FENCE WOVEN WIRE 4-FT

CATEGORY	ROADWAY	LOCATION	OFFSET	616.0100 LF
6100	RAMP SW			
		852+18 - 861+37	LT	936
	RAMP NW			
		864+84 - 873+24	LT	918
	RAMP SE			
		849+87 - 859+21	RT	942
	RAMP NE			
		863+06 876+84	RT	1,394
	TOTALS			4,190

DUST CONTROL SURFACE TREATMENT

CATEGORY	LOCATION	623.0200 SY
	PROJECT ID 1033-02-71	
1000	STH 20	64,873
	CONTRACT TOTAL	64,873

GEOTEXTILE REINFORCEMENT

CATEGORY	LOCATION	645.0135 GEOTEXTILE TYPE SR SY
	PROJECT ID 1033-02-71	
1000	UNDISTRIBUTED	20,000
	CONTRACT TOTAL	20,000

NOTE: FOR USE IN LOCATIONS OF EBS TO HELP MINIMIZE EBS QUANTITY. USE WITH APPROVAL FROM ENGINEER.

FENCE SAFETY

CATEGORY	ROADWAY	616.0700.S FENCE SAFETY LF
	PROJECT ID 1033-02-71	
1000	UNDISTRIBUTED	2,000
	CONTRACT TOTAL	2,000

WATER ITEMS

CATEGORY	STAGE	ROADWAY	624.0100 WATER MGAL
		PROJECT ID 1033-02-71	
1000	1	AGGREGATE AND EARTHWORK	392
	2	AGGREGATE AND EARTHWORK	2,976
	3	AGGREGATE AND EARTHWORK	2,427
		CONTRACT TOTAL	5,795

INCENTIVE IRI RIDE

CATEGORY	PROJECT	740.0440 DOL
1000	1033-02-71	17,207
	CONTRACT TOTAL	17,207

MOBILIZATION

CATEGORY	PROJECT	619.1000 EACH
1000	1033-02-71	0.95
1000	1033-02-76	0.05
	CONTRACT TOTAL	1

TRACKING PADS

CATEGORY	STAGE	LOCATION	628.7560 EACH
		PROJECT ID 1033-02-71	
1000	1	STH 20	2
	2	STH 20	2
	3	STH 20	2
		UNDISTRIBUTED	2
		CONTRACT TOTAL	8

INVASIVE PLANT SPECIES

CATEGORY	LOCATION	SPV.0170.0001 REMOVAL AND DISPOSAL OF INVASIVE PLANT SPECIES STA
	PROJECT ID 1033-02-71	
1000	IH 94	3
	CONTRACT TOTAL	3

EROSION CONTROL ITEMS

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	606.0200 RIPRAP MEDIUM CY	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2004 EROSION MAT 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 CHECK LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	645.0120 GEOTEXTILE TYPE HR SY
		PROJECT ID 1033-02-71																		
1000	1A	STH 20 -TEMPORARY PAVEMENT	262+25	-	344+55	--	--	487	244	--	--	3,109	9	--	37	4	125	--	--	--
		RAMP NW	863NW+81	-	868NW+51	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
		RAMP SE	855SE+90	-	860SE+88	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
		RAMP NE	861NE+76	-	867NE+00	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
		WEST FRONTAGE ROAD SOUTH	2857+00	-	2864+58	--	--	--	--	--	--	107	1	--	1	--	--	--	--	--
		EAST FRONTAGE ROAD SOUTH	3852+25	-	3858+30	--	--	220	110	--	--	77	--	--	--	--	--	--	--	--
		EAST FRONTAGE ROAD NORTH	5859+60	-	5863+16	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
		UNDISTRIBUTED				--	200	177	89	3	2	824	3	--	11	1	32	--	50	--
		STAGE 1A SUBTOTAL				--	200	884	443	3	2	4,117	14	--	52	5	157	--	50	--
1000	1B	UNDISTRIBUTED				--	--	--	--	3	2	--	--	--	--	--	--	--	10	--
		STAGE 1B SUBTOTAL				--	--	--	--	3	2	--	--	--	--	--	--	--	10	--
1000	2	STH 20	262+25	-	344+55	377	--	1,286	643	--	--	20,250	47	--	37	10	200	3	--	95
		RAMP SW	858SW+57	-	862SW+77	--	--	--	--	--	--	1,807	5	--	5	--	--	1	--	--
		RAMP NW	863NW+81	-	868NW+51	9	--	--	--	--	--	4,275	6	1	4	--	--	--	--	8
		RAMP SE	855SE+90	-	860SE+88	--	--	--	--	--	--	1,959	6	--	6	--	--	--	--	--
		RAMP NE	861NE+76	-	867NE+00	7	--	389	195	--	--	6,060	2	--	2	--	75	--	--	53
		WEST FRONTAGE ROAD SOUTH	262+25	-	344+55	--	--	--	--	--	--	2,441	4	--	4	--	--	1	--	--

(CONTINUED ON NEXT SHEET)

EROSION CONTROL ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	606.0200 RIPRAP MEDIUM CY	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2004 EROSION MAT 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 CHECK LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	645.0120 GEOTEXTILE TYPE HR SY
1000	2	WEST FRONTAGE ROAD NORTH																		
			4864+82	-	4868+06	--	--	173	87	--	--	1,605	6	1	5	--	--	--	--	--
		EAST FRONTAGE ROAD SOUTH																		
			3852+25	-	3858+30	--	--	--	--	--	--	660	10	--	10	--	--	--	--	--
		EAST FRONTAGE ROAD NORTH																		
			5859+60	-	5863+16	--	--	502	251	--	--	999	8	--	8	--	--	--	--	--
6000		IH 94 SB																		
			871+44	-	873+54	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--
		RAMP NW																		
			868NW+51	-	873NW+56	--	--	--	--	--	--	771	--	--	--	1	--	--	--	--
		UNDISTRIBUTED				99	200	588	294	5	3	10,207	24	1	21	4	69	2	50	39
		STAGE 2 SUBTOTAL				492	200	2,938	1,470	5	3	51,034	118	3	102	18	344	7	50	195
1000	3	STH 20																		
			262+25	-	344+55	72	--	--	--	--	--	13,515	23	--	17	5	125	4	--	45
		RAMP SW																		
			858SW+57	-	862SW+77	--	--	--	--	--	--	796	1	--	1	--	--	--	--	--
		RAMP NW																		
			863NW+81	-	868NW+51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		RAMP SE																		
			855SE+90	-	860SE+88	--	--	--	--	--	--	230	1	--	1	--	--	--	--	--
		RAMP NE																		
			861NE+76	-	867NE+00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		WEST FRONTAGE ROAD SOUTH																		
			262+25	-	344+55	--	--	--	--	--	--	508	4	--	4	--	--	1	--	--
		WEST FRONTAGE ROAD NORTH																		
			4864+82	-	4868+06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		EAST FRONTAGE ROAD SOUTH																		
			3852+25	-	3858+30	--	--	--	--	--	--	687	5	--	5	--	--	--	--	--
		EAST FRONTAGE ROAD NORTH																		
			5859+60	-	5863+16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		UNDISTRIBUTED				18	200	--	--	5	3	3,934	9	--	7	2	32	2	50	12
		STAGE 3 SUBTOTAL				90	200	--	--	5	3	19,670	43	--	35	7	157	7	50	57

(CONTINUED ON NEXT SHEET)

3

EROSION CONTROL ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	606.0200 RIPRAP MEDIUM CY	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2004 EROSION MAT 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 CHECK LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	645.0120 GEOTEXTILE TYPE HR SY
1000	4A	STH 20	262+25	-	344+55	--	--	--	--	--	--	11,033	--	--	--	--	--	--	--	--
		UNDISTRIBUTED				--	--	--	--	3	2	2,759	--	--	--	--	--	--	--	--
		STAGE 4A SUBTOTAL				--	--	--	--	3	2	13,792	--	--	--	--	--	--	--	--
		CATEGORY 1000 SUBTOTAL				582	600	3,822	1,913	19	12	87,842	175	3	189	26	658	14	160	252
		CATEGORY 6000 SUBTOTAL				--	--	--	--	--	--	771	--	--	--	4	--	--	--	--
		PROJECT ID 1033-02-71 SUBTOTAL				582	600	3,822	1,913	19	12	88,613	175	3	189	30	658	14	160	252
		PROJECT ID 1033-02-76																		
1000	1A	INTERNATIONAL DRIVE	111+75	-	135+58	--	--	--	--	--	--	--	--	--	22	--	--	--	--	--
		UNDISTRIBUTED				--	--	--	--	2	1	--	--	--	6	--	--	--	--	--
		STAGE 1A SUBTOTAL				--	--	--	--	2	1	--	--	--	28	--	--	--	--	--
		PROJECT ID 1033-02-76 SUBTOTAL				--	--	--	--	2	1	--	--	--	28	--	--	--	--	--
		CONTRACT TOTAL				582	600	3,822	1,913	21	13	88,613	175	3	217	30	658	14	160	252

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\030203_mq_misc.ppt PLOT DATE : 12/16/2019 9:21:41 AM PLOT BY : MSCD1S PLOT NAME : 030203_mq_misc5 PLOT SCALE : 1:1

RESTORATION ITEMS

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	625.0500 SALVAGED TOPSOIL SY	628.6510 SOIL STABILIZER TYPE B ACRE	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIX NO. 20 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
		PROJECT ID 1033-02-71									
1000	1A	STH 20 -TEMPORARY PAVEMENT									
			262+25	-	344+55	3,109	--	2	84	42	35
		WEST FRONTAGE ROAD SOUTH									
			2857+00	-	2864+58	107	--	1	3	2	2
		EAST FRONTAGE ROAD SOUTH									
			3852+25	-	3858+30	77	--	1	3	2	1
		UNDISTRIBUTED				824	1	1	23	12	10
		STAGE 1A SUBTOTAL				4,117	1	5	113	58	48
1000	2	STH 20									
			262+25	-	344+55	20,250	--	13	547	274	228
		RAMP SW									
			858SW+57	-	862SW+77	1,807	--	2	49	25	21
		RAMP NW									
			863NW+81	-	868NW+51	4,275	--	3	116	58	48
		RAMP SE									
			855SE+90	-	860SE+88	1,959	--	2	53	27	22
		RAMP NE									
			861NE+76	-	867NE+00	6,060	--	4	164	82	69
		EAST FRONTAGE ROAD SOUTH									
			3852+25	-	3858+00	2,441	--	2	66	33	28
		EAST FRONTAGE ROAD NORTH									
			5860+00	-	5863+15	1,605	--	2	44	22	19
		WEST FRONTAGE ROAD SOUTH									
			262+25	-	344+55	660	--	1	18	9	8
		WEST FRONTAGE ROAD NORTH									
			4864+82	-	4868+06	999	--	1	27	14	12
6000		RAMP NW									
			868NW+51	-	873NW+56	771	--	1	21	11	9
		UNDISTRIBUTED				10,014	1	8	271	136	114
		STAGE 2 SUBTOTAL				50,841	1	39	1,376	691	578

(CONTINUED ON NEXT SHEET)

RESTORATION ITEMS (CONTINUED)

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	625.0500 SALVAGED TOPSOIL SY	628.6510 SOIL STABILIZER TYPE B ACRE	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIX NO. 20 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
1000	3	STH 20									
			262+25	-	344+55	13,515	--	9	365	183	152
		RAMP SW									
			858SW+57	-	862SW+77	796	--	1	22	11	9
		RAMP SE									
			855SE+90	-	860SE+88	230	--	1	7	4	3
		WEST FRONTAGE ROAD SOUTH									
			262+25	-	344+55	508	--	1	14	7	6
		EAST FRONTAGE ROAD SOUTH									
			3852+25	-	3858+30	687	--	1	19	10	8
		UNDISTRIBUTED				3,934	1	4	107	54	45
		STAGE 3 SUBTOTAL				19,670	1	17	534	269	223
1000	4A	STH 20									
			262+25	-	344+55	11,033	--	7	298	149	124
		UNDISTRIBUTED				2,759	--	2	75	38	31
		STAGE 4A SUBTOTAL				13,792	--	9	373	187	155
		CATEGORY 1000 SUBTOTAL				87,649	2	69	2,375	1,194	995
		CATEGORY 6000 SUBTOTAL				771	--	1	21	11	9
		CONTRACT TOTAL				88,420	2	70	2,396	1,205	1,004

PAVEMENT MARKING ITEMS

CATEGORY	ROADWAY	STATION	TO	STATION	633.0100 DELINEATOR POSTS STEEL EACH	633.0500 DELINEATOR REFLECTORS YELLOW EACH	633.0500 DELINEATOR REFLECTORS WHITE EACH	633.1000 DELINEATORS BARRIER WALL YELLOW EACH	633.1000 DELINEATORS BARRIER WALL WHITE EACH	646.1020 MARKING LINE EPOXY 4-INCH 3' LINE 9' SKIP YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH 12.5' LINE 37.5' SKIP YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH 3' LINE 9' SKIP WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH 12.5' LINE 37.5' SKIP WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH 3' LINE 9' SKIP WHITE LF	646.1545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH 12.5' LINE 37.5' SKIP WHITE LF	646.1545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH WHITE LF	646.1555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH 12.5' LINE 37.5' SKIP WHITE LF	646.3020 MARKING LINE EPOXY 8-INCH 3' LINE 9' SKIP WHITE LF	646.3020 MARKING LINE EPOXY 8-INCH WHITE LF
	PROJECT ID 1033-02-71																						
1000	STH 20																						
		259+20	-	344+56	--	--	--	--	--	13,518	9	--	13,107	58	--	3,861	131	4,889	--	--	--		
	RAMP SW																						
		861SW+41	-	862SW+00	6	3	3	--	--	948	--	--	936	--	--	--	--	--	191	--	--		
	RAMP NW																						
		864NW+00	-	868NW+51	3	--	3	4	--	439	--	--	935	--	--	--	--	--	148	--	--		
	RAMP SE																						
		850SE+13	-	860SE+64	12	6	6	--	--	1,030	--	--	1,052	--	--	--	--	--	127	--	--		
	RAMP NE																						
		862NE+00	-	866NE+95	12	6	6	--	--	480	--	--	1,408	--	--	--	--	--	218	--	--		
	WEST FRONTAGE ROAD																						
	SOUTH	2851+29	-	2864+38	--	--	--	--	--	2,509	--	419	2,527	--	--	174	32	185	--	--	--		
	NORTH	4865+00	-	4874+10	--	--	--	--	--	1,615	--	297	1,526	--	--	162	50	107	--	--	--		
	EAST FRONTAGE ROAD																						
	SOUTH	3845+69	-	3858+20	--	--	--	--	--	2,017	--	--	2,117	--	91	32	15	321	--	--	--		
	NORTH	5859+50	-	5870+02	--	--	--	--	--	1,421	--	64	1,381	--	107	317	--	157	--	50	--		
6000	IH 94 SB																						
		871+45	-	873+55	--	--	--	--	3	--	--	--	--	--	--	--	--	--	--	--	--		
	STH 20																						
		308+48	-	328+23	--	--	--	--	--	--	16	--	--	--	--	--	161	--	--	--	--		
	RAMP NW																						
		868NW+51	-	873NW+56	--	--	--	5	--	455	--	--	--	--	--	--	--	--	78	--	--		
	RED CLOUD																						
		269+77	-	272+69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,413	--		
	PROJECT ID 1033-02-71 SUBTOTALS				33	15	18	9	3	24,432	25	780	24,989	58	198	4,546	389	5,659	762	1,463	--		
	CATEGORY 1000 SUBTOTAL				33	33		4					50,011				10,433		684	50			
	CATEGORY 6000 SUBTOTAL				--	--		8					471				161		78	1,413			
1000	PROJECT ID 1033-02-71 TOTAL				33	33		12					50,482				10,594		762	1,463			
	PROJECT ID 1033-02-76																						
	INTERNATIONAL DRIVE																						
		111+75	-	135+38	--	--	--	--	--	--	--	--	--	--	945	--	--	--	--	586	75		
	PROJECT ID 1033-02-76 SUBTOTALS				--	--	--	--	--	--	--	--	--	--	945	--	--	--	--	586	75		
	PROJECT ID 1033-02-76 TOTAL				--	--		--					945				--		--	661			
	CONTRACT TOTAL				33	33		12					51,427				10,594		762	2,124			

(CONTINUED ON NEXT SHEET)

PAVEMENT MARKING ITEMS (CONTINUED)

CATEGORY	ROADWAY	STATION	TO	STATION	646.3545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH 2' LINE 6' SKIP WHITE LF	646.3545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH 3' LINE 9' SKIP WHITE LF	646.3555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH 3' LINE 9' SKIP WHITE LF	646.3555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH 3' LINE 9' SKIP WHITE LF	646.5020 MARKING ARROW EPOXY TYPE 2 WHITE EACH	646.5120 MARKING WORD EPOXY WHITE EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH WHITE LF	646.6220 MARKING YIELD LINE EPOXY 18-INCH WHITE EACH	646.7120 MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH WHITE LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH WHITE LF	646.8020 MARKING CORRUGATED MEDIAN EPOXY YELLOW SF	646.8120 MARKING CURB EPOXY YELLOW LF	646.8220 MARKING ISLAND NOSE EPOXY YELLOW EACH	SPV.0060.0008 MARKING CONTRAST EPOXY SPECIAL MARKING ARROW TYPE 1 WHITE EACH	SPV.0060.0008 MARKING CONTRAST EPOXY SPECIAL MARKING ARROW TYPE 2 WHITE EACH	SPV.0060.0008 MARKING CONTRAST EPOXY SPECIAL MARKING ARROW TYPE 3 WHITE EACH	SPV.0060.0009 MARKING CONTRAST EPOXY SPECIAL MARKING WORD WHITE EACH
	PROJECT ID 1033-02-71																					
1000	STH 20																					
		259+20	-	344+56	10,185	216	714	--	--	--	--	567	--	--	582	--	--	922	18	6	41	--	21
	RAMP SW																					
		861SW+41	-	862SW+00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RAMP NW																					
		864NW+00	-	868NW+51	--	--	--	651	--	--	--	76	--	--	73	--	--	--	2	--	3	2	2
	RAMP SE																					
		850SE+13	-	860SE+64	--	--	--	714	405	--	--	115	--	--	85	--	--	--	--	--	5	2	3
	RAMP NE																					
		862NE+00	-	866NE+95	116	26	--	--	--	--	--	--	--	--	124	--	--	--	2	--	--	--	--
	WEST FRONTAGE ROAD																					
	SOUTH	2851+29	-	2864+38	767	--	71	--	--	4	1	30	1	--	105	--	--	56	2	--	--	--	--
	NORTH	4865+00	-	4874+10	428	--	66	--	--	4	--	30	1	--	23	--	660	25	6	--	--	--	--
	EAST FRONTAGE ROAD																					
	SOUTH	3845+69	-	3858+20	716	--	17	--	--	8	2	50	1	18	--	--	--	142	8	--	--	--	--
	NORTH	5859+50	-	5870+02	580	--	--	--	--	6	1	63	--	--	--	--	--	76	6	--	--	--	--
6000	IH 94 SB																					
		871+45	-	873+55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	STH 20																					
		308+48	-	328+23	3,175	53	257	--	--	--	--	189	--	--	334	601	--	84	3	--	14	--	6
	RAMP NW																					
		868NW+51	-	873NW+56	--	--	--	51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RED CLOUD																					
		269+77	-	272+69	--	--	--	--	--	6	8	97	--	--	67	349	--	60	6	--	--	--	--
	PROJECT ID 1033-02-71 SUBTOTALS				15,967	295	1,125	1,416	405	28	12	1,217	3	18	1,393	950	660	1,365	53	6	63	4	32
	CATEGORY 1000 SUBTOTAL					13,902			1,770	22	4	931	3		1,010	--	660	1,221	44		59		26
	CATEGORY 6000 SUBTOTAL					3,485			51	6	8	286	--		401	950	--	144	9		14		6
1000	PROJECT ID 1033-02-71 TOTAL					17,387			1,821	28	12	1,217	3		1,411	950	660	1,365	53		73		32
	PROJECT ID 1033-02-76																					
	INTERNATIONAL DRIVE																					
		111+75	-	135+38	--	9	--	--	--	6	3	26	--	--	--	--	--	--	--	--	--	--	--
	PROJECT ID 1033-02-76 SUBTOTALS				--	9	--	--	--	6	3	26	--	--	--	--	--	--	--	--	--	--	--
	PROJECT ID 1033-02-76 TOTAL					9			--	6	3	26	--		--	--	--	--	--		--		--
	CONTRACT TOTAL					17,387			1,821	34	15	1,243	3		1,411	950	660	1,365	53		73		32

BARRICADE RACKS

CATEGORY	LOCATION	662.6030.S RAMP CLOSURE BARRICADE RACK 3-UNIT EACH	SPV.0060.0029 PERMANENT BARRICADES TYPE III EACH
	PROJECT ID 1033-02-71		
1000	RAMP NE	1	6
	RAMP SW	1	6
	CONTRACT TOTAL	2	12

BASELINE CPM PROGRESS SCHEDULE

CATEGORY	PROJECT	SPV.0060.0005 BASELINE CPM PROGRESS SCHEDULE EACH	SPV.0060.0006 MONTHLY CPM PROGRESS SCHEDULE UPDATES 1033-02-71 EACH	SPV.0060.0007 MONTHLY CPM PROGRESS SCHEDULE UPDATES 1033-02-76 EACH
1000	I.D. 1033-02-71	0.95	10	--
1000	I.D. 1033-02-76	0.05	--	2
	CONTRACT TOTAL	1	10	2

3

EXPOSING EXISTING UTILITY

CATEGORY	LOCATION	SPV.0060.0003 EXPOSING EXISTING INFRASTRUCTURE UNPAVED AREA EACH	SPV.0060.0004 EXPOSING EXISTING INFRASTRUCTURE PAVED AREA EACH
	PROJECT ID 1033-02-71		
1000	UNDISTRIBUTED	4	4
	CONTRACT TOTAL	4	4

PAVEMENT CLEANUP

CATEGORY	LOCATION	SPV.0075.0001 PAVEMENT CLEANUP PROJECT 1033-02-71 HRS	SPV.0075.0002 PAVEMENT CLEANUP PROJECT 1033-02-76 HRS
1000	PROJECT	400	20
	CONTRACT TOTAL	400	20

SURVEY PROJECT

CATEGORY	LOCATION	SPV.0105.0001 SURVEY PROJECT 1033-02-71 LS	SPV.0105.0002 SURVEY PROJECT 1033-02-76 LS
1000	PROJECT	1	1
	CONTRACT TOTAL	1	1

PAVEMENT REPAIR

CATEGORY	PROJECT	SPV.0060.0034 MOBILIZATIONS EMERGENCY PAVEMENT REPAIR EACH
1000	I.D. 1033-02-71	5
	CONTRACT TOTAL	5

FIELD OFFICE

CATEGORY	STAGE	PROJECT	SPV.0135.0001 FIELD OFFICE SPECIAL MON
1000	ALL	1033-02-71	10
		CONTRACT TOTAL	10

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\030203_mq_misc.ppt PLOT DATE : 12/12/2019 8:40:30 PM PLOT BY : MSCD1S PLOT NAME : 030203_mq_misc10 PLOT SCALE : 1:1

ADVANCED SIGNING ITEMS

CATEGORY	ROADWAY	STAGE DURATION DAYS	* 643.0900 TRAFFIC CONTROL SIGNS EACH**	DAY
	PROJECT ID 1033-02-71			
1000	STAGE 1A	30		
	STH 20		14	420
	RAMPS SW		3	90
	RAMPS NW		2	60
	RAMP SE		2	60
	RAMP NE		3	90
	WEST FRONTAGE ROAD SOUTH		6	180
	WEST FRONTAGE ROAD NORTH		3	90
	EAST FRONTAGE ROAD SOUTH		4	120
	EAST FRONTAGE ROAD NORTH		3	90
	STAGE 1A SUBTOTAL			1,200
	STAGE 1B	15		
	STH 20		14	210
	RAMPS SW		3	45
	RAMPS NW		2	30
	RAMP SE		2	30
	RAMP NE		3	45
	WEST FRONTAGE ROAD SOUTH		6	90
	WEST FRONTAGE ROAD NORTH		3	45
	EAST FRONTAGE ROAD SOUTH		4	60
	EAST FRONTAGE ROAD NORTH		3	45
	STAGE 1B SUBTOTAL			600
	STAGE 2	84		
	STH 20		14	1,176
	RAMPS NW		2	168
	RAMP SE		2	168
	WEST FRONTAGE ROAD SOUTH		6	504
	WEST FRONTAGE ROAD NORTH		3	252
	EAST FRONTAGE ROAD SOUTH		4	336
	EAST FRONTAGE ROAD NORTH		3	252
	STAGE 2 SUBTOTAL			2,856
	STAGE 3	84		
	STH 20		14	1,176
	RAMPS NW		2	168
	RAMP SE		2	168
	WEST FRONTAGE ROAD SOUTH		6	504
	WEST FRONTAGE ROAD NORTH		3	252
	EAST FRONTAGE ROAD SOUTH		4	336
	EAST FRONTAGE ROAD NORTH		3	252
	STAGE 3 SUBTOTAL			2,856

ADVANCED SIGNING ITEMS (CONTINUED)

CATEGORY	ROADWAY	STAGE DURATION DAYS	* 643.0900 TRAFFIC CONTROL SIGNS EACH**	DAY
	STAGE 4A	21		
1000	STH 20		14	294
	RAMPS SW		3	63
	RAMPS NW		2	42
	RAMP SE		2	42
	RAMP NE		3	63
	WEST FRONTAGE ROAD SOUTH		6	126
	WEST FRONTAGE ROAD NORTH		3	63
	EAST FRONTAGE ROAD SOUTH		4	84
	EAST FRONTAGE ROAD NORTH		3	63
	STAGE 4A SUBTOTAL			840
	STAGE 4B	21		
	STH 20		14	294
	RAMPS SW		3	63
	RAMPS NW		2	42
	RAMP SE		2	42
	RAMP NE		3	63
	WEST FRONTAGE ROAD SOUTH		6	126
	WEST FRONTAGE ROAD NORTH		3	63
	EAST FRONTAGE ROAD SOUTH		4	84
	EAST FRONTAGE ROAD NORTH		3	63
	STAGE 4B SUBTOTAL			840
	UNDISTRIBUTED			919
	CONTRACT TOTAL			10,111

** FOR INFORMATION ONLY
* ADDITIONAL QUANTITIES ELSEWHERE

TRAFFIC CONTROL DETOUR ITEMS

CATEGORY	ROADWAY	DURATION DAYS	* 643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH**	DAY	* 643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH**	DAY	* 643.0900 TRAFFIC CONTROL SIGNS EACH**	DAY
	PROJECT ID 1033-02-71							
1000	STAGE 2	84						
	IH 94 NB ON-RAMP		--	--	--	--	136	11,424
	IH 94 SB ON-RAMP		--	--	--	--	144	12,096
	STAGE 2 SUBTOTAL			--		--		23,520
	STAGE 3	84						
	IH 94 NB ON-RAMP		--	--	--	--	136	11,424
	IH 94 SB ON-RAMP		--	--	--	--	144	12,096
	STAGE 3 SUBTOTAL			--		--		23,520
	FULL ROADWAY CLOSURE	15						
	STH 20 WB		6	90	12	180	91	1,365
	STH 20 EB		6	90	12	180	113	1,695
				180		360		3,060
	FULL ROADWAY CLOSURE	8						
	WEST FRONTAGE ROAD		8	64	16	128	214	1,712
				64		128		1,712
	FULL ROADWAY CLOSURE	8						
	EAST FRONTAGE ROAD		8	64	16	128	214	1,712
				64		128		1,712
	CONTRACT TOTAL			308		616		53,524

* ADDITIONAL QUANTITIES ELSEWHERE
** FOR INFORMATION ONLY

TRAFFIC CONTROL PROJECT ITEM

CATEGORY	STAGE	LOCATION	643.5000.0001 TRAFFIC CONTROL 1033-02-71 EACH
1000	ALL	PROJECT	1
	TOTAL		1

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\030204_mq_tc.ppt PLOT DATE : 12/12/2019 2:09:44 PM PLOT BY : MSCD1S PLOT NAME : 030204_mq_tc1 PLOT SCALE : 1:1

TRAFFIC CONTROL ITEMS

CATEGORY	ROADWAY	STAGE DURATION DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH**	643.0300 TRAFFIC CONTROL DRUMS DAY	* 643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH**	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	* 643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH**	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH**	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS EACH**	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	* 643.0900 TRAFFIC CONTROL SIGNS EACH**	643.0900 TRAFFIC CONTROL SIGNS DAY
	PROJECT ID 1033-02-71															
1000	STAGE 1A	30														
	STH 20		215	6,450	4	120	--	--	8	240	8	240	--	--	10	300
	RAMPS SW		5	150	--	--	--	--	--	--	--	--	--	--	--	--
	RAMPS NW		--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RAMP SE		10	300	--	--	--	--	--	--	--	--	--	--	--	--
	WEST FRONTAGE ROAD SOUTH		65	1,950	--	--	--	--	--	--	--	--	--	--	--	--
	WEST FRONTAGE ROAD NORTH		15	450	--	--	--	--	--	--	--	--	--	--	1	30
	EAST FRONTAGE ROAD SOUTH		70	2,100	--	--	--	--	--	--	--	--	--	--	--	--
	EAST FRONTAGE ROAD NORTH		20	600	--	--	--	--	--	--	--	--	--	--	--	--
	UNDISTRIBUTED			1,200		12	--	--		24		24		--		33
	STAGE 1A SUBTOTAL			13,200		132	--	--		264		264		--		363
1000	STAGE 1B	15														
	STH 20		430	6,450	18	270	--	--	36	540	90	1,350	3	45	45	675
	RAMP SE		10	150	--	--	--	--	--	--	--	--	--	--	--	--
	WEST FRONTAGE ROAD SOUTH		35	525	--	--	--	--	--	--	--	--	--	--	--	--
	WEST FRONTAGE ROAD NORTH		20	300	--	--	--	--	--	--	--	--	--	--	--	--
	UNDISTRIBUTED			743		27	--	--		54		135		5		68
	STAGE 1B SUBTOTAL			8,168		297	--	--		594		1,485		50		743
1000	STAGE 2	84														
	STH 20		620	52,080	3	252	130	130	6	504	105	8,820	2	168	29	2,436
	RAMP SW		--	--	4	336	--	--	8	672	--	--	--	--	2	168
	RAMP NW		95	7,980	1	84	--	--	2	168	15	1,260	--	--	1	84
	RAMP SE		35	2,940	1	84	--	--	2	168	15	1,260	--	--	1	84
	RAMP NE		--	--	5	420	--	--	10	840	--	--	--	--	1	84
	WEST FRONTAGE ROAD SOUTH		110	9,240	3	252	45	45	6	504	--	--	--	--	4	336
	WEST FRONTAGE ROAD NORTH		90	7,560	2	168	35	35	4	336	--	--	1	84	3	252
	EAST FRONTAGE ROAD SOUTH		125	10,500	3	252	65	65	6	504	5	420	2	168	10	840
	EAST FRONTAGE ROAD NORTH		105	8,820	6	504	25	25	12	1,008	--	--	1	84	15	1,260
	UNDISTRIBUTED			9,912		236	55	30		471		1,176		51		555
1000	STAGE 2	45														
	STH 20		60	2,700	2	90	--	--	4	180	24	1,080	2	90	22	990
	RENAISSANCE BLVD		66	2,970	2	90	--	--	4	180	20	900	2	90	22	990
	UNDISTRIBUTED			567		18	--	--		36		198		18		198
6000	STAGE 2	7														
	IH 94 SB		53	371	2	14	--	--	8	56	--	--	1	7	11	77
	UNDISTRIBUTED			38		2	--	--		6		--		1		8
	STAGE 2 SUBTOTAL			115,678		2,802	355	330		5,633		15,114		761		8,362

** FOR INFORMATION ONLY * ADDITIONAL QUANTITIES ELSEWHERE

(CONTINUED ON NEXT SHEET)

TRAFFIC CONTROL ITEMS (CONTINUED)

CATEGORY	ROADWAY	STAGE DURATION DAYS	643.0300 * TRAFFIC CONTROL DRUMS EACH**	643.0300 * TRAFFIC CONTROL DRUMS DAY	643.0420 * TRAFFIC CONTROL BARRICADES TYPE III EACH**	643.0420 * TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	643.0705 * TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH**	643.0705 * TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH**	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS EACH**	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	643.0900 * TRAFFIC CONTROL SIGNS EACH**	643.0900 * TRAFFIC CONTROL SIGNS DAY
1000	STAGE 3	84														
	STH 20		463	38,892	3	252	213	213	6	504	84	7,056	--	--	20	1,680
	RAMP SW		--	--	5	420	--	--	10	840	--	--	--	--	1	84
	RAMP NW		49	4,116	--	--	--	--	--	--	20	1,680	--	--	--	--
	RAMP SE		63	5,292	--	--	--	--	--	--	24	2,016	--	--	--	--
	RAMP NE		--	--	7	588	--	--	14	1,176	--	--	--	--	1	84
	WEST FRONTAGE ROAD SOUTH		95	7,980	2	168	20	20	4	336	--	--	1	84	2	168
	WEST FRONTAGE ROAD NORTH		43	3,612	--	--	7	7	--	--	--	--	--	--	--	--
	EAST FRONTAGE ROAD SOUTH		109	9,156	6	504	20	20	12	1,008	--	--	--	--	10	840
	EAST FRONTAGE ROAD NORTH		21	1,764	3	252	5	5	6	504	--	--	--	--	4	336
	UNDISTRIBUTED			7,082		219	52	27		437		1,076		9		320
	STAGE 3 SUBTOTAL			77,894		2,403	317	292		4,805		11,828		93		3,512
	STAGE 4A	21														
1000	STH 20		700	58,800	15	1,260	--	--	30	2,520	30	2,520	1	84	32	2,688
	RAMP NW		40	3,360	--	--	--	--	--	--	--	--	--	--	--	--
	WEST FRONTAGE ROAD NORTH		30	2,520	--	--	--	--	--	--	--	--	--	--	1	84
	EAST FRONTAGE ROAD SOUTH		25	2,100	--	--	--	--	--	--	--	--	--	--	1	84
	EAST FRONTAGE ROAD NORTH		30	2,520	--	--	--	--	--	--	--	--	--	--	--	--
	UNDISTRIBUTED			6,930		126	--	--		252		252		9		286
	STAGE 4A SUBTOTAL			76,230		1,386	--	--		2,772		2,772		93		3,142
1000	STAGE 4B	21														
	STH 20		140	11,760	2	168	--	--	4	336	20	1,680	--	--	2	168
	RAMP SE		25	2,100	--	--	--	--	--	--	--	--	--	--	--	--
	RAMP NE		15	1,260	--	--	--	--	--	--	--	--	--	--	--	--
	WEST FRONTAGE ROAD NORTH		15	1,260	--	--	--	--	--	--	--	--	--	--	--	--
	EAST FRONTAGE ROAD NORTH		10	840	--	--	--	--	--	--	--	--	--	--	--	--
	UNDISTRIBUTED			1,722		17	--	--		34		168		--		17
	STAGE 4B SUBTOTAL			18,942		185	--	--		370		1,848		--		185
	CATEGORY 1000 SUBTOTAL			309,703		7,189	672	622		14,376		33,311		989		16,222
	CATEGORY 6000 SUBTOTAL			409		16	--	--		62		--		8		85
	PROJECT ID 1033-02-71 SUBTOTAL			310,112		7,205	672	622		14,438		33,311		997		16,307
	PROJECT ID 1033-02-76															
	STAGE 1A	30														
1000	INTERNATIONAL DRIVE		130	3,900	4	120	--	--	8	240	20	600	2	60	20	600
	UNDISTRIBUTED			390		12	--	--		24		60		6		60
	STAGE 1A SUBTOTAL			4,290		132	--	--		264		660		66		660
	PROJECT ID 1033-02-76 SUBTOTAL			4,290		132	--	--		264		660		66		660
	CONTRACT TOTAL			314,402		7,337	672	622		14,702		33,971		1,063		16,967

** FOR INFORMATION ONLY * ADDITIONAL QUANTITIES ELSEWHERE

PCMS SIGNING ITEMS

CATEGORY	ROADWAY	STAGE DURATION DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH**	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	643.1051 TRAFFIC CONTROL SIGNS PCMS WITH CELLULAR COMMUNICATIONS EACH**	643.1051 TRAFFIC CONTROL SIGNS PCMS WITH CELLULAR COMMUNICATIONS DAY	643.1200.S PORTABLE AUTOMATED REAL-TIME TRAFFIC QUEUE WARNING SYSTEM EACH**	643.1200.S PORTABLE AUTOMATED REAL-TIME TRAFFIC QUEUE WARNING SYSTEM DAY
	PROJECT ID 1033-02-71							
1000	STAGE 1A	30						
	STH 20		--	--	8	240	--	--
	RAMPS NW		1	30	--	--	--	--
	RAMP SE		1	30	--	--	--	--
	STAGE 1A SUBTOTAL			60		240		--
	STAGE 1B	15						
	STH 20		--	--	8	120	--	--
	RAMPS NW		1	15	--	--	--	--
	RAMP SE		1	15	--	--	--	--
	STAGE 1B SUBTOTAL			30		120		--
	STAGE 2	84						
	STH 20		--	--	8	672	--	--
	RAMPS NW		--	--	--	--	1	84
	RAMP SE		--	--	--	--	1	84
	STAGE 2 SUBTOTAL			--		672		168
	STAGE 3	84						
	STH 20		--	--	8	672	--	--
	RAMPS NW		--	--	--	--	1	84
	RAMP SE		--	--	--	--	1	84
	STAGE 3 SUBTOTAL			--		672		168
	STAGE 4A	21						
1000	STH 20		--	--	8	168	--	--
	STAGE 4A SUBTOTAL			--		168		--
	STAGE 4B	21						
	STH 20		--	--	8	168	--	--
	STAGE 4B SUBTOTAL			--		168		--
	UNDISTRIBUTED			9		204		34
	CONTRACT TOTAL			99		2,244		370

** FOR INFORMATION ONLY

TEMPORARY BARRIER

CATEGORY	STAGE	ROADWAY	STATION	OFFSET	STATION	OFFSET	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF
	PROJECT ID 1033-02-71							
1000	2A	RAMP SE						
			853SE+48	25.38' RT	860SE+64	10.46' RT	700	700
		CONTRACT TOTAL					700	700

TRAFFIC CONTROL SIGNS FIXED MESSAGE

CATEGORY	STAGE	ROADWAY	SIGN #	NUMBER REQUIRED	SIGN SIZE W X H FT X FT	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	SIGN MESSAGE
1000	2A	IH 94 NB		2	12 X 4	96	NO RE-ENTRY TO FREEWAY
1000	2A	IH 94 SB		2	12 X 4	96	NO RE-ENTRY TO FREEWAY
		TOTAL				192	

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\030204_mq_tc.ppt PLOT DATE : 12/12/2019 2:09:45 PM PLOT BY : MSCD1S PLOT NAME : 030204_mq_tc4 PLOT SCALE : 1:1

TEMPORARY MARKING ITEMS

CATEGORY	ROADWAY	649.0120 TEMPORARY MARKING LINE EPOXY 4-INCH 12.5' LINE 37.5' SKIP YELLOW LF	649.0120 TEMPORARY MARKING LINE EPOXY 4-INCH 12.5' LINE 37.5' SKIP WHITE LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH 3' LINE 9' SKIP WHITE LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH 3' LINE 9' SKIP YELLOW LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH 3' LINE 9' SKIP YELLOW LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH 3' LINE 9' SKIP WHITE LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH 3' LINE 9' SKIP WHITE LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH 12.5' LINE 37.5' SKIP WHITE LF	649.0220 TEMPORARY MARKING LINE EPOXY 8-INCH 3' LINE 9' SKIP WHITE LF	649.0220 TEMPORARY MARKING LINE EPOXY 8-INCH 3' LINE 9' SKIP WHITE LF	649.0250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH 3' LINE 9' SKIP WHITE LF	649.0250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH 3' LINE 9' SKIP WHITE LF	649.0520 TEMPORARY MARKING ARROW EPOXY TYPE 2 EACH	649.0760 TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE I EACH	649.0820 TEMPORARY MARKING STOP LINE EPOXY 18-INCH WHITE LF	649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH WHITE LF	649.0920 TEMPORARY MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	649.0950 TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH YELLOW LF
	PROJECT ID 1033-02-71																			
1000	STAGE 1A																			
	STH 20	--	7,149	1,648	--	--	--	--	--	985	82	--	--	--	10	--	--	--	--	
	RAMPS SW	--	241	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	RAMPS NW	--	184	51	--	--	--	--	--	193	--	--	--	--	--	--	--	--	--	
	RAMP SE	--	375	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	WEST FRONTAGE ROAD SOUTH	165	501	--	--	--	--	--	--	153	--	--	--	--	--	--	--	--	--	
	WEST FRONTAGE ROAD SOUTH	253	--	--	--	--	--	--	--	324	23	--	--	--	--	--	--	--	--	
	EAST FRONTAGE ROAD SOUTH	--	221	291	--	--	--	--	--	235	--	--	--	--	--	--	--	--	--	
	EAST FRONTAGE ROAD NORTH	--	--	69	--	--	--	--	--	141	--	--	--	--	--	--	--	--	--	
	INTERNATIONAL DRIVE	--	--	--	--	--	--	--	945	--	--	200	75	--	--	--	14	--	--	
	STAGE 1A SUBTOTAL	418	8,671	2,059	--	--	--	--	945	2,031	105	200	75	--	10	--	14	--	--	
	STAGE 1B																			
	STH 20	12,941	13,499	1,519	--	--	--	--	--	1,111	35	--	--	5	76	211	--	--	--	
	RAMP SE	--	52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	WEST FRONTAGE ROAD SOUTH	223	179	--	--	--	--	--	--	280	--	--	--	2	--	62	--	--	--	
	EAST FRONTAGE ROAD SOUTH	--	116	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	STAGE 1B SUBTOTAL	13,164	13,846	1,519	--	--	--	--	--	1,391	35	--	--	7	76	273	--	--	--	
	STAGE 2																			
	STH 20	6,092	11,514	1,423	--	--	--	--	--	578	135	--	--	4	66	399	--	344	--	
	RAMP NW	2,151	2,200	--	--	--	--	--	--	--	--	--	--	--	--	106	--	--	--	
	RAMP SE	882	1,075	--	--	--	--	--	--	--	--	--	--	--	--	35	--	--	--	
	WEST FRONTAGE ROAD SOUTH	4,999	6,710	--	--	--	--	--	--	137	--	--	--	2	--	90	--	--	--	
	WEST FRONTAGE ROAD NORTH	3,645	4,410	--	--	--	--	--	--	--	--	--	--	--	--	80	--	--	--	
	EAST FRONTAGE ROAD SOUTH	5,211	5,465	--	--	--	--	--	--	972	189	--	--	4	--	90	--	--	--	
	EAST FRONTAGE ROAD NORTH	2,503	3,520	--	--	43	--	--	--	356	37	--	--	--	--	79	--	--	--	
	STAGE 2 SUBTOTAL	25,483	34,894	1,423	--	43	--	--	--	2,043	361	--	--	10	66	879	--	344	--	
	STAGE 3																			
	STH 20	14,587	21,473	2,102	--	--	--	--	--	986	--	--	--	7	119	--	399	--	397	
	RAMP NW	210	228	--	--	--	--	--	--	--	--	--	--	--	--	--	44	--	--	
	RAMP SE	2,331	2,470	--	--	--	--	--	--	--	--	--	--	--	--	--	87	--	--	
	WEST FRONTAGE ROAD SOUTH	2,592	3,556	--	--	--	--	--	--	--	--	--	--	--	--	--	79	--	--	
	WEST FRONTAGE ROAD NORTH	1,517	1,950	--	--	--	--	--	--	133	--	--	--	1	--	--	92	--	--	
	EAST FRONTAGE ROAD SOUTH	3,830	3,699	--	--	--	--	--	--	152	--	--	--	1	--	--	83	--	--	
	EAST FRONTAGE ROAD NORTH	1,696	1,843	--	--	23	--	--	--	691	--	--	--	2	--	--	98	--	--	
	STAGE 3 SUBTOTAL	26,763	35,219	2,102	--	23	--	--	--	1,962	--	--	--	11	119	--	882	--	397	

(CONTINUED ON NEXT SHEET)

TEMPORARY MARKING ITEMS (CONTINUED)

CATEGORY	ROADWAY	649.0120 TEMPORARY MARKING LINE EPOXY 4-INCH 12.5' LINE 37.5' SKIP YELLOW LF	649.0120 TEMPORARY MARKING LINE EPOXY 4-INCH 12.5' LINE 37.5' SKIP WHITE LF	649.0120 TEMPORARY MARKING LINE EPOXY 4-INCH 12.5' LINE 37.5' SKIP WHITE LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH 3' LINE 9' SKIP YELLOW LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH 3' LINE 9' SKIP YELLOW LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH 3' LINE 9' SKIP WHITE LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH 3' LINE 9' SKIP WHITE LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH 12.5' LINE 37.5' SKIP WHITE LF	649.0220 TEMPORARY MARKING LINE EPOXY 8-INCH 3' LINE 9' SKIP WHITE LF	649.0220 TEMPORARY MARKING LINE EPOXY 8-INCH 3' LINE 9' SKIP WHITE LF	649.0250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH 3' LINE 9' SKIP WHITE LF	649.0250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH 3' LINE 9' SKIP WHITE LF	649.0520 TEMPORARY MARKING ARROW EPOXY TYPE 2 EACH	649.0760 TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE I EACH	649.0820 TEMPORARY MARKING STOP LINE EPOXY 18-INCH WHITE LF	649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH WHITE LF	649.0920 TEMPORARY MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	649.0950 TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH YELLOW LF
1000	STAGE 4A																			
	STH 20	--	--	--	12,162	--	13,138	49	2,059	--	--	6,718	338	4	87	85	--	--	--
	RAMP NW	--	--	--	--	--	944	--	--	--	--	--	--	--	--	--	--	--	--
	WEST FRONTAGE ROAD NORTH	--	--	--	--	--	216	--	--	--	--	--	--	--	--	22	--	--	--
	EAST FRONTAGE ROAD NORTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	63	--	--	--
	STAGE 4A SUBTOTAL	--	--	--	12,162	--	14,298	49	2,059	--	--	6,718	338	4	87	170	--	--	--
	STAGE 4B																		
	STH 20	--	--	--	203	--	3,851	--	313	296	--	--	--	--	9	--	68	--	--
	STAGE 4B SUBTOTAL	--	--	--	203	--	3,851	--	313	296	--	--	--	--	9	--	68	--	--
	UNDISTRIBUTED	6,583	9,263	710	1,237	7	1,815	5	332	772	50	692	41	3	37	132	96	34	40
	PROJECT ID 1033-02-71 SUBTOTAL		182,117				37,341				9,046		8,064	35	404	1,454	1,060	378	437
	PROJECT ID 1033-02-76																		
1000	STAGE 1A																		
	INTERNATIONAL DRIVE	--	--	--	--	--	--	--	945	--	--	200	75	--	--	--	14	--	--
	STAGE 1A SUBTOTAL	--	--	--	--	--	--	--	945	--	--	200	75	--	--	--	14	--	--
	UNDISTRIBUTED	--	--	--	--	--	--	--	95	--	--	20	8	--	--	--	1	--	--
	PROJECT ID 1033-02-71 SUBTOTAL		--				1,040				--		303	--	--	--	15	--	--
	CONTRACT TOTAL		182,117				38,380				9,046		8,367	35	404	1,454	1,076	378	437

ITS CONDUIT, CABLE, AND FIBER

CATEGORY	ROADWAY	ITEM ID	LINEAR DISTANCE	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	655.0510* ELECTRICAL WIRE TRAFFIC SIGNALS 12 AWG LF	671.0122 CONDUIT HDPE 2-DUCT 2-INCH LF	674.0400 REINSTALL CABLE LF	678.0036 INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 36-CT LF	SPV.0090.2000 ADJUST CONDUIT LF	SPV.0105.2000 TEMPORARY CCTV POWER LS
1300	STH 20									
		EXPB295 - CB01	--	--	--	--	--	--	--	1
		EXPB295 - CB01	110	110	--	--	110	--	--	--
		EXCV291 - PB291	140	--	149	140	--	240	--	--
		PB291 - PB286	450	--	459	450	--	550	--	--
		PB286 - CV274	1265	--	1,274	1,265	--	1,465	--	--
		CV274 - EXISTING	25	--	--	--	--	--	25	--
		TOTALS		110	1,882	1,855	110	2,255	25	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

FIBER SPLICES

CATEGORY	ROADWAY	ITEM ID	678.0300* FIBER OPTIC SPLICE EACH
1300	STH 20		
		CV274	36
		EXCV291	36
		TOTALS	72

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ITS COMMUNICATION VAULTS

CATEGORY	ROADWAY	ITEM ID	STATION	OFFSET	652.0700.S INSTALL CONDUIT INTO EXISTING ITEM EACH	653.0140 PULL BOXES STEEL 24X42-INCH EACH	673.0105 COMMUNICATION VAULT TYPE 1 EACH	673.0200 TRACER WIRE MARKER POSTS EACH
1300	STH 20							
		CV274	273+91	76.5' LT	--	--	1	1
		PB286	286+56	95.5' LT	--	1	--	--
		PB291	291+02	103.4' LT	--	1	--	--
		EXCV291	290+54	230.9' LT	1	--	--	--
		TOTALS			1	2	1	1

MISCELLANEOUS ITS ITEMS

CATEGORY	ITEM I.D.	670.0100.0001 FIELD SYSTEM INTEGRATOR LS	670.0200.0001 ITS DOCUMENTATION LS	678.0500.0001 COMMUNICATION SYSTEM TESTING LS
1300	MISCELLANEOUS	1	1	1
	TOTAL	1	1	1

3

FTMS LINEAR FEET REMOVALS

CATEGORY	ROADWAY	ITEM ID	674.0300 REMOVE CABLE LF
1300	STH 20		
		EXPB291 - EXCV289	200
		EXCV289 - EXPB286	270
		EXPB286 - EXMH274	1,265
		EXPB295 - EXMB295	125
		TOTALS	1,860

FTMS EACH REMOVALS

CATEGORY	ROADWAY	ITEM	DESCRIPTION	204.0210 REMOVING MANHOLES EACH	204.9060.S.2010 REMOVING VAULT EACH	204.9060.S.2011 REMOVING ELECTRICAL SERVICE METER BREAKER PEDESTAL EACH	204.9060.S.2012 REMOVING ON-RAMP CLOSURE GATE EACH	653.0905 REMOVING PULLBOXES EACH
1300	IH 94							
		EXPB291	PULL BOX	--	--	--	--	1
		EXCV289	VAULT	--	1	--	--	--
		EXPB286	PULL BOX	--	--	--	--	1
		EXMH274	MANHOLE	1	--	--	--	--
		EXMB295	METER BREAKER	--	--	1	--	--
		EXRG01	RAMP GATE	--	--	--	1	--
		EXRG02	RAMP GATE	--	--	--	1	--
		EXRG03	RAMP GATE	--	--	--	1	--
		EXRG04	RAMP GATE	--	--	--	1	--
		EXRG05	RAMP GATE	--	--	--	1	--
		UNDISTRIBUTED	PULL BOX	--	--	--	--	5
			TOTALS	1	1	1	5	7

3

FILE NAME : \\minw00\pmwork\jobs\67321\WO_01_Local_Road_ITS\eng\030214_mq_fm.ppt PLOT DATE : 12/11/2019 10:27:49 PM PLOT BY : mdonnelly PLOT NAME : 030214_mq_fm PLOT SCALE : 1:1

SIGN #	REMARKS	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1R01	SPEED LIMIT 45	1	1	--
1R02	SPEED LIMIT 45	1	1	--
1R03	TRAFFIC SIGNAL AHEAD	1	1	--
1R04	TRAFFIC SIGNAL AHEAD	1	1	--
1R05	WRONG WAY	1	1	--
1R06	KEEP RIGHT	1	1	--
1R07	JUNCTION ASSEMBLY	1	2	--
1R08	TRAFFIC SIGNAL AHEAD	1	1	--
1R09	TRAFFIC SIGNAL AHEAD	1	1	--
1R10	LEFT TURN LANE WITH ARROW	1	1	--
1R11	NO PARKING	1	1	--
1R12	WRONG WAY	1	1	--
1R13	NO PARKING	1	1	--
1R14	KEEP RIGHT	1	1	--
1R15	DO NOT ENTER	1	1	--
1R16	SPEED LIMIT 45	1	1	--
1R17	SPEED LIMIT 45	1	1	--
1R18	PARK & RIDE	1	1	--
1R19	ONE WAY	1	1	--
1R20	NOT USED			--
1R21	WRONG WAY	1	1	--
1R22	NOT USED			--
1R23	SHERIFF'S PATROL STATION	1	--	--
1R24	KEEP RIGHT	1	1	--
1R25	ROUTE ASSEMBLY	1	1	--
1R26	NO PARKING	1	1	--
1R27	REASSURANCE ASSEMBLY	1	1	--
1R28	JUNCTION ASSEMBLY	1	1	--
1R29	JUNCTION ASSEMBLY	1	1	--
1R30	ONE WAY	1	1	--
1R31	ONE WAY	1	1	--
1R32	JUNCTION ASSEMBLY	1	1	--
1R33	JUNCTION ASSEMBLY	1	1	--
1R34	WRONG WAY	1	1	
2R01	ROUTE ASSEMBLY	1	1	--
2R02	DO NOT ENTER	1	1	--
2R03	FOLDING STOP	1		SIGNAL POLE
2R04	FOLDING STOP	1	--	SIGNAL POLE
2R05	YIELD	1	1	--
2R06	NOT USED		--	--
2R07	NOT USED		--	--
2R08	NO PARKING	1	1	--
2R09	ROUTE ASSEMBLY	1	2	--
2R10	ROUTE ASSEMBLY	1	1	--
2R11	NO PARKING	1	1	--
2R12	WRONG WAY	1	1	--
2R13	ROUTE ASSEMBLY	1	1	--
2R14	NO LEFT NO U TURN	1	1	--
2R15	NOT USED			--
2R16	RAMP CLOSED FOLLOW ALT ROUTE	1	2	--
2R17	NOT USED			--
2R18	FOLDING STOP	1	--	--

SIGN #	REMARKS	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
2R19	YIELD	1	1	--
2R20	KEEP RIGHT	1	1	--
2R21	NO LEFT TURN	1	1	--
2R22	NOT USED			--
2R23	NOT USED		--	--
2R24	ALTERNATE ROUTE ASSEMBLY	1	1	--
2R25	ONE WAY	1	1	--
2R26	NOT USED			--
2R27	NO PARKING	1	1	--
2R28	ONE WAY	1		SIGNAL POLE
2R29	NO RIGHT TURN	1		SIGNAL POLE
2R30	FOLDING STOP	1		SIGNAL POLE
2R31	DO NOT ENTER	1	1	--
2R32	KEEP RIGHT	1	--	SIGNAL POLE
2R33	RIGHT LANE MUST TURN RIGHT	1	1	--
2R34	NOT USED			--
2R35	ROUTE ASSEMBLY	1	1	--
2R36	JUNCTION ASSEMBLY	1	2	--
2R37	WRONG WAY	1	1	--
2R38	NO PARKING	1	1	--
2R39	NOT USED			--
2R40	ONE WAY	1	--	SIGNAL POLE
2R41	DO NOT ENTER	1	--	SIGNAL POLE
2R42	ALTERNATE ROUTE ASSEMBLY	1	1	--
2R43	FOLDING STOP	1	--	SIGNAL POLE
2R44	FOLDING STOP	1	--	SIGNAL POLE
2R45	NOT USED			--
2R46	NO PARKING	1	1	--
2R47	ALTERNATE ROUTE ASSEMBLY	1	1	--
2R48	ROUTE ASSEMBLY	1	2	--
2R49	NOT USED		--	--
2R50	NO PARKING	1	1	--
2R51	ROUTE ASSEMBLY	1	1	--
2R52	WRONG WAY	1	1	--
2R53	LEFT TURN LANE WITH ARROW	1	1	--
2R54	ROUTE ASSEMBLY	1	1	--
2R55	NO RIGHT TURN	1	1	--
2R56	NOT USED			--
2R57	NOT USED			--
2R58	NOT USED		--	--
2R59	DO NOT ENTER	1	--	--
2R60	NOT USED			--
2R61	NOT USED		--	
2R62	FOLDING STOP	1	--	SIGNAL POLE
2R63	NOT USED		--	
2R64	NOT USED			--
2R65	ROUTE ASSEMBLY	1	1	--
2R66	FOLDING STOP	1	--	SIGNAL POLE
2R67	YIELD	1	1	--
2R68	RAMP CLOSED FOLLOW ALT ROUTE	1	2	--

SIGN #	REMARKS	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
2R69	NOT USED		--	--
2R70	NOT USED		--	--
2R71	ROUTE ASSEMBLY	1	1	--
2R72	DESTINATION SIGN	1	2	--
2R73	NO PARKING	1	1	--
2R74	NOT USED			--
2R75	ROUTE ASSEMBLY	1	1	--
2R76	ROUTE ASSEMBLY	1	1	--
2R77	WRONG WAY	1	1	--
2R78	RAMP CLOSED FOLLOW ALT ROUTE	1	2	--
2R79	STOP	1	1	
2R80	STOP	1	1	
3R01	RIGHT LANE MUST TURN RIGHT	1	1	--
3R02	NO PARKING	1	1	--
3R03	ALTERNATE ROUTE ASSEMBLY	1	1	--
3R04	ROUTE ASSEMBLY	1	1	--
3R05	ROUTE ASSEMBLY	1	1	--
3R06	DO NOT ENTER	1	1	--
3R07	FOLDING STOP	1	--	SIGNAL POLE
3R08	KEEP RIGHT	1	--	SIGNAL POLE
3R09	KEEP RIGHT	1	--	SIGNAL POLE
3R10	REASSURANCE ASSEMBLY	1	1	--
3R11	NOT USED		--	--
3R12	NOT USED			--
3R13	WRONG WAY	1	1	--
3R14	DESTINATION SIGN	1	2	--
3R15	NO PARKING	1	1	--
3R16	SPEED LIMIT 45	1	1	--
3R17	SPEED LIMIT 45	1	1	--
3R18	RIDESHARE	1	2	--
3R19	KEEP RIGHT	1	1	--
3R20	KEEP RIGHT	1	1	--
3R21	STOP	1	1	--
3R22	ALTERNATE ROUTE ASSEMBLY	1	1	--
3R23	ROUTE ASSEMBLY	1	2	--
3R24	ROUTE ASSEMBLY	1	2	--
3R25	FOLDING STOP	1	--	SIGNAL POLE
3R26	FOLDING STOP	1	--	SIGNAL POLE
3R27	FOLDING STOP	1	--	SIGNAL POLE
3R28	YIELD	1	--	LIGHT POLE
3R29	DO NOT ENTER	1	1	--
3R30	ROUTE ASSEMBLY	1	1	--
3R31	ROUTE ASSEMBLY	1	1	--
3R32	JUNCTION ASSEMBLY	1	2	--
3R33	NO PARKING	1	1	--
3R34	NOT USED			--
3R35	NOT USED			--
3R36	SIGNAL AHEAD	1	1	--
3R37	SIGNAL AHEAD	1	1	--
3R38	RIDESHARE	1	2	--
3R39	ONE WAY	1	1	--
4R01	SPEED LIMIT 55	1	1	--
4R02	SPEED LIMIT 55	1	1	--

3

SIGN #	REMARKS	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
4R03	WRONG WAY	1	1	--
4R04	JUNCTION ASSEMBLY	1	1	--
4R05	JUNCTION ASSEMBLY	1	1	--
4R06	SPEED LIMIT 45	1	1	--
4R07	SPEED LIMIT 45	1	1	--
4R08	REDUCED SPEED AHEAD	1	1	--
4R09	REDUCED SPEED AHEAD	1	1	--
4R10	KEEP RIGHT	1	1	--
4R11	KEEP RIGHT	1	1	--
4R12	ONE WAY	1	1	--
4R13	DO NOT ENTER	1	1	--
5R01	NOT USED			--
5R02	NOT USED			--
5R03	NOT USED			--
5R04	NOT USED			--
5R05	NOT USED			--
5R06	ROUTE ASSEMBLY	1	1	--
5R07	YIELD	1	1	--
5R08	DO NOT ENTER	1	1	--
5R09	DO NOT ENTER	1	1	--
5R10	DO NOT ENTER	1	1	--
5R11	NO PARKING	1	1	--
5R12	NOT USED			--
5R13	NOT USED			--
5R14	NOT USED			--
5R15	NOT USED			--
5R16	NOT USED			--
5R17	NOT USED			--
5R18	CRASH INVESTIGATION SITE	1	2	--
5R19	WRONG WAY	1	1	--
5R20	NOT USED			--
5R21	LEFT LANE MUST TURN LEFT	1		SIGNAL POLE
5R22	NO PARKING	1	--	SIGNAL POLE
5R23	RAMP CLOSED FOLLOW ALT ROUTE	1	2	--
5R24	PEDESTRIANS PROHIBITED	1	1	--
5R25	NOT USED		--	--
5R26	RAMP CLOSED FOLLOW ALT ROUTE	1	2	--
5R27	NO PARKING	1	--	SIGNAL POLE
5R28	NO PARKING	1	--	SIGNAL POLE
5R29	NOT USED		--	--
5R30	DO NOT ENTER	1	--	SIGNAL POLE
5R31	WRONG WAY	1		SIGNAL POLE
5R32	LEFT LANE MUST TURN LEFT	1	1	--
5R33	NO PARKING	1	1	--
5R34	AMTRAK STATION	1	2	--
5R35	NO PARKING	1	1	--
5R36	NOT USED			--
5R37	NOT USED			--
5R38	NOT USED			--

SIGN #	REMARKS	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
5R39	NO PARKING	1	1	--
5R40	PEDESTRIANS PROHIBITED	1	1	--
5R41	NO PARKING	1	1	--
5R42	FOLDING STOP	1	--	SIGNAL POLE
5R43	YIELD	1	1	--
5R44	ROUTE ASSEMBLY	1	1	--
5R45	NOT USED			--
5R46	NOT USED			--
5R47	NOT USED			--
5R48	NOT USED			--
5R49	PARK & RIDE	1	1	--
5R50	SIGNAL AHEAD	1	1	--
RR51	ROUTE ASSEMBLY	1	2	--
5R52	AMTRAK STATION	1	2	--
5R53	FRONTAGE ROAD	1	1	--
5R54	NOT USED			--
5R55	NOT USED			--
5R56	NO PARKING ON RAMP	1	1	--
5R57	DESTINATION SIGN	1	2	--
5R58	NO PARKING ON RAMP	1	1	--
5R59	LANE REDUCTION	1	1	--
5R60	PARK & RIDE	1	1	--
5R61	ONE WAY	1	1	--
5R62	WRONG WAY	1	1	--
5R63	WRONG WAY	1	1	--
5R64	NO PARKING ON RAMP	1	1	
5R65	LANE USE SIGN	1	1	
5R66	LANE USE SIGN	1	1	
5R67	LANE USE SIGN	1	1	
6R01	TRAFFIC SIGNAL AHEAD	1	1	--
6R02	RIGHT LANE MUST TURN RIGHT	1	1	--
6R03	ROUTE ASSEMBLY	1	2	--
6R04	KEEP RIGHT	1	1	--
6R05	LANE ASSIGNMENT ARROWS	1	2	--
6R06	STOP	1	1	--
6R07	FOLDING STOP	1	--	SIGNAL POLE
6R08	KEEP RIGHT	1	--	SIGNAL POLE
6R09	FOLDING STOP	1	--	SIGNAL POLE
6R10	SPEED LIMIT 35	1	1	--
6R11	NOT USED		--	--
6R12	REASSURANCE ASSEMBLY	1	1	--
6R13	NOT USED			--
6R14	NO PARKING	1	1	--
6R15	TWO-WAY LEFT TURN LANE	1	1	--
6R16	DO NOT ENTER	1	1	--
6R17	NOT USED		--	--
6R18	NO PARKING	1	1	--
6R19	NOT USED			--
6R20	NOT USED			--
6R21	NOT USED			--
6R22	KEEP RIGHT	1	--	SIGNAL POLE
6R23	FOLDING STOP	1	--	SIGNAL POLE
6R24	ROUTE ASSEMBLY	1	2	--

SIGN #	REMARKS	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
6R25	LANE ASSIGNMENT ARROWS	1	1	--
6R26	JUNCTION ASSEMBLY	1	1	--
6R27	SPEED LIMIT 35	1	1	--
6R28	NO PARKING	1	1	
7R01	KEEP RIGHT	1	1	--
7R02	KEEP RIGHT	1	1	--
7R03	JUNCTION ASSEMBLY	1	1	--
7R04	JUNCTION ASSEMBLY	1	1	--
7R05	LANE ASSIGNMENT ARROWS	1	2	--
7R06	ROUTE ASSEMBLY	1	2	--
7R07	FOLDING STOP	1	--	SIGNAL POLE
7R08	ROUTE/ALTERNATE ROUTE ASSEMBLY	1	2	--
7R09	ONE WAY	1	--	--
7R10	KEEP RIGHT	1	--	SIGNAL POLE
7R11	KEEP RIGHT	1	--	SIGNAL POLE
7R12	FOLDING STOP	1	--	SIGNAL POLE
7R13	SPEED LIMIT 25	1	1	--
7R14	ROAD TURNS LEFT	1	1	--
7R15	ROAD TURNS LEFT	1	1	--
7R16	NOT USED			--
7R17	NOT USED			--
7R18	LANE ENDS	1	1	--
7R19	LANE ENDS	1	1	--
7R20	KEEP RIGHT	1	1	--
7R21	KEEP RIGHT	1	1	--
7R22	SPEED LIMIT 35	1	1	--
7R23	SPEED LIMIT 35	1	1	--
7R24	ONE WAY	1	--	SIGNAL POLE
7R25	FOLDING STOP	1	--	SIGNAL POLE
7R26	ROUTE ASSEMBLY	1	2	--
7R27	JUNCTION ASSEMBLY	1	1	--
7R28	TRAFFIC SIGNAL AHEAD	1	1	--
7R29	WRONG WAY	1	1	
7R30	STOP SIGN FOLD UP	1		SIGNAL POLE
7R31	LANE REDUCTION	1	1	--
7R32	KEEP RIGHT	1	1	--
7R33	KEEP RIGHT	1	1	--
7R34	JUNCTION ASSEMBLY	1	1	--
7R35	KEEP RIGHT	1	1	--
TOTALS		238 *	224 *	

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TYPE I & II PERMANENT SIGNING

1033-02-71 IH 94 at STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.] x [IN.]	**637.2210** SIGNS TYPE II REFLECTIVE H [SF]	**637.2230** SIGNS TYPE II RELFECTIVE F [SF]	**637.2215** SIGNS TYPE II REFLECTIVE H FOLDING [SF]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	**634.0618** POSTS WOOD 4" X 6" X 18' [EA]	**634.0622** POSTS WOOD 4" X 6" X 22' [EA]	**634.0816** POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	**637.1220** SIGNS TYPE I REFLECTIVE SH [SF]	**637.1230** SIGNS TYPE I REFLECTIVE F [SF]	**638.2101** MOVING SIGNS TYPE I [EA]
1	J1-1(2M)		24 X 60	10.000					1								
	MB2-1		24 X 12														
	M1-1	IH 41	24 X 24														
	M1-1	IH 94	24 X 24														
2	J1-1(2M)		24 X 60	5.000					1								
	MB2-1		24 X 12														
	M1-1	IH 41	24 X 24														
	M1-1	IH 94	24 X 24														
3	R4-7(2M)		24 X 30	5.000					1								
4	R4-7(2M)		24 X 30	5.000					1								
5	R6-2L(2M)		30 X 36	7.500					1								
6	R2-1(2M)	45 MPH	30 X 36	7.500					1								
7	R2-1(2M)	45 MPH	30 X 36	7.500					1								
8	W3-3(2M)		36 X 36		9.000				1								
9	W3-3(2M)		36 X 36		9.000				1								
10	R6-2R(2M)		30 X 36	7.500					1								
11	R5-1A(2M)		42 X 30	8.750					1								
12	R5-1(2M)		36 X 36	9.000					1								
13	J1-1(2M)		24 X 60	10.000					1								
	M2-1		24 X 12														
	M1-5A	CTH A	24 X 24														
	M1-5A	CTH C	24 X 24														
14	J1-1(2M)		24 X 60	10.000					1								
	M2-1		24 X 12														
	M1-5A	CTH A	24 X 24														
	M1-5A	CTH C	24 X 24														
15	R3-20L(2M)		24 X 36	6.000					1								
16	R5-1A(2M)		42 X 30	8.750								15					
17	R5-1(2M)		36 X 36	9.000					1								
18	R1-1						1	1			1		PRIVATE PROPERTY SIGNS - MOVE ONLY				
19	R6-3							1				18					
20	R6-2L(2M)		30 X 36	7.500					1								
21	R4-7(2M)		24 X 30	5.000					1								
22	R4-7(2M)		24 X 30	5.000					1								
23	D1-60(2M)	WEST FRONTAGE ROAD NORTH - SOUTH	96 X 24	16.000					2								
24	D1-60(2M)	WEST FRONTAGE ROAD NORTH - SOUTH	96 X 24	16.000					2								
25	R5-1(2M)		36 X 36	9.000					1								
26	NONE	PUBLIC WORKS					1	1	1								
27	R6-2L(2M)		30 X 36	7.500					1								

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H [SF]	637.2230 SIGNS TYPE II RELFECTIVE F [SF]	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING [SF]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	638.2102 MOVING SIGNS TYPE II [EA]	634.0618 POSTS WOOD 4" X 6" X 18' [EA]	634.0622 POSTS WOOD 4" X 6" X 22' [EA]	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLECTIVE SH [SF]	637.1230 SIGNS TYPE I REFLECTIVE F [SF]	638.2101 MOVING SIGNS TYPE I [EA]
28	R2-1(2M)	45 MPH	30 X 36	7.500					1								
29	R2-1(2M)	45 MPH	30 X 36	7.500					1								
30	D4-2R(2M)		30 X 36	7.500					1								
31	R4-4(2M)		36 X 30	7.500					1								
32	R3-53R(2M)		24 X 30	5.000					1								
33	R5-1(2M)		36 X 36	9.000					1								
34	R4-7(2M)		24 X 30	5.000					1								
35	R3-2(2M)		36 X 36	9.000								34					
36	R7-1D(2M)		24 X 30	5.000								37					
37	R5-1A(2M)		42 X 30	8.750					1								
38	M1-95A(2M)	WEST FRONTAGE ROAD	24 X 30	5.000					1								
38A	M6-4(2M)		21 X 21	3.060								38					
39	R5-1(2M)		36 X 36	9.000								38					
40	R1-1F(3)		36 X 36			7.460						44					
41	R1-1F(3)		36 X 36			7.460							ON SIGNAL POLE				
42	R1-2(2M)		48 X 42	7.000					1								
43	R6-2L(2M)		30 X 36	7.500									ON SIGNAL POLE				
44	R5-1(2M)		36 X 36	9.000					1								
45	J3-2(2M)		48 X 57	19.000					1								
	MB3-1		24 X 12														
	M1-1	IH 41	24 X 24														
	MB6-1		21 X 21														
	MB3-4		24 X 12														
	M1-1	IH 94	24 X 24														
	MB6-1		21 X 21														
46	R4-7(2M)		24 X 30	5.000									SIGNAL POLE				
47	NONE	ADOPT A HIGHWAY					1	1	1								
48	R7-1R(2M)		24 X 30	5.000					1								
49	R3-20L(2M)		24 X 36	6.000					1								
50	R3-20LL(2M)		24 X 36	6.000					1								
51	J4-1(2M)		24 X 36	6.000					1								
	M3-4		24 X 12														
	M1-6	STH 20	24 X 24														
52	R5-1(2M)		36 X 36	9.000								51					
53	NONE	SHERIFFS PATROL STATION	96 X 24	16.000						2							
54	D4-54R(2M)		60 X 48	20.000								53					
55	R4-7(2M)		24 x 30	5.000					1								
56	R3-2(2M)		36 X 36	9.000								55					
57	R6-2R(2M)		30 X 36	7.500					1								
58	R3-20L(2M)		24 X 36	6.000					1								

TYPE I & II PERMANENT SIGNING

1033-02-71 IH 94 at STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.] x [IN.]	**637.2210** SIGNS TYPE II REFLECTIVE H [SF]	**637.2230** SIGNS TYPE II RELFECTIVE F [SF]	**637.2215** SIGNS TYPE II REFLECTIVE H FOLDING [SF]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	**634.0618** POSTS WOOD 4" X 6" X 18' [EA]	**634.0622** POSTS WOOD 4" X 6" X 22' [EA]	**634.0816** POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	**637.1220** SIGNS TYPE I REFLECTIVE SH [SF]	**637.1230** SIGNS TYPE I REFLECTIVE F [SF]	**638.2101** MOVING SIGNS TYPE I [EA]
59	R5-1(2M)		36 X 36	9.000					1								
60	R5-1(2M)		36 X 36	9.000								59					
61	R3-2(2M)		36 X 36	9.000					1								
62	R4-7(2M)		24 X 30	5.000									SIGNAL POLE				
63	R6-3(2M)		30 X 24	5.000									SIGNAL POLE				
64	R1-1F(3)		36 X 36			7.460							SIGNAL POLE				
65	R1-1F(3)		36 X 36			7.460							SIGNAL POLE				
66	R1-2(2M)		48 X 42	7.000					1								
67	R6-2L(2M)		30 X 36	7.500					1								
68	D16-1												. I BEAM INCIDENTAL MOUNT ON S-51-227	6 X 6	36.00		
69	R5-1A(2M)		42 X 30	8.750									ON UPRIGHT OF S-51-227				
70	J2-2(2M)		48 X 60	20.000					2								
	MB3-1		24 X 12														
	M1-1	IH 41	24 X 24														
	MB4-20L		24 X 24														
	MB3-4		24 X 12														
	M1-1	IH 94	24 X 24														
	MB4-20L		24 X 24														
71	R3-7R(3)		36 X 36	9.000					1								
72	R7-1D(2M)		24 X 30	6.000								71					
73	J3-4(2M)		96 X 57	38.000					3								
	MB4-1		24 X 12														
	M1-1	IH 41	24 X 24														
	MB6-1		21 X 21														
	MB4-1		24 X 12														
	M1-1	IH 94	24 X 24														
	MB6-1		21 X 21														
	MB3-3		24 X 12														
	M1-1	IH 41	24 X 24														
	MB6-1		21 X 21														
	MB3-2		24 X 12														
	M1-1	IH 94	24 X 24														
	MB6-1		21 X 21														
74	R11-54F(2M)		48 X 30			10.000			2								
75	R5-1(2M)		36 X 36	9									SIGNAL POLE				
76	R1-2(2M)		48 X 42	7					1								
77	R5-1(2M)		36 X 36	9.000					1								
78	R1-1F(3)		36 X 36			7.460						78					
79	R1-1F(3)		36 X 36			7.460							SIGNAL POLE				
80	D16-1												MOUNT ON S-51-228. I BEAMS INCIDENTAL	6 X 6	36.00		

3

TYPE I & II PERMANENT SIGNING

1033-02-71 IH 94 at STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.] x [IN.]	**637.2210** SIGNS TYPE II REFLECTIVE H [SF]	**637.2230** SIGNS TYPE II RELFECTIVE F [SF]	**637.2215** SIGNS TYPE II REFLECTIVE H FOLDING [SF]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	**634.0618** POSTS WOOD 4" X 6" X 18' [EA]	**634.0622** POSTS WOOD 4" X 6" X 22' [EA]	**634.0816** POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	**637.1220** SIGNS TYPE I REFLECTIVE SH [SF]	**637.1230** SIGNS TYPE I REFLECTIVE F [SF]	**638.2101** MOVING SIGNS TYPE I [EA]
81	J3-2(2M)		48 X 57	19.000									ON LIGHT POLE				
	MB3-3		24 X 12														
	M1-1	IH 41	24 X 24														
	MB6-1		21 X 21														
	MB3-2		24 X 12														
	M1-1	IH 94	24 X 24														
	MB6-1		21 X 21														
82	R4-7(2M)		24 X 30	5.000					1								
83	R6-2L(2M)		30 X 36	7.500									SIGNAL POLE				
84	R5-1(2M)		36 X 36	9.000					1								
85	R5-1A(2S)		36 X 24	6.000								84	3 FOOT HEIGHT				
86	R5-1(2M)		36 X 36	9.000									SIGNAL POLE				
87	R5-1A(2S)		36 X 24	6.000								86	3 FOOT HEIGHT				
88	R3-20L(2M)		24 X 36	6.000									SIGNAL POLE				
89	R3-18(2M)		36 X 36	9.000					1								
90	D1-60	WEST FRONTAGE RD SOUTH - NORTH	96 X 24	16.000					2								
91	J3-2(2M)		48 X 69	23.000						2							
	MB4-1		24 X 12														
	MB3-3		24 X 12														
	M1-1	IH 41	24 X 24														
	MB6-1		21 X 21														
	MB4-1		24 X 12														
	MB3-2		24 X 12														
	M1-1	IH 94	24 X 24														
	MB6-1		21 X 21														
92	D16-1R												MOUNT ON S-51-229 I BEAMS INCIDENTAL	5 X 6	30.00		
93	R7-1D(2M)		24 X 30	5.000					1								
94	R3-7R(3)		36 X 36	9.000					1								
95	J3-2(2M)		48 X 69	23.000						2							
	MB4-1		24 X 12														
	MB3-1		24 X 12														
	M1-1	IH 41	24 X 24														
	MB6-1		21 X 21														
	MB4-1		24 X 12														
	MB3-4		24 X 12														
	M1-1	IH 94	24 X 24														
	MB6-1		21 X 21														
96	R10-50L(2M)		30 X 36	7.500									MOUNT ON SIGNAL ARM OR POLE				
97	R10-50L(2M)		30 X 36	7.500									MOUNT ON SIGNAL ARM OR POLE				

TYPE I & II PERMANENT SIGNING

1033-02-71 IH 94 at STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.] x [IN.]	**637.2210** SIGNS TYPE II REFLECTIVE H [SF]	**637.2230** SIGNS TYPE II RELFECTIVE F [SF]	**637.2215** SIGNS TYPE II REFLECTIVE H FOLDING [SF]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	**634.0618** POSTS WOOD 4" X 6" X 18' [EA]	**634.0622** POSTS WOOD 4" X 6" X 22' [EA]	**634.0816** POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	**637.1220** SIGNS TYPE I REFLECTIVE SH [SF]	**637.1230** SIGNS TYPE I REFLECTIVE F [SF]	**638.2101** MOVING SIGNS TYPE I [EA]
98	R10-50L(2M)		30 X 36	7.500									MOUNT ON SIGNAL ARM OR POLE				
99	R1-1F(3)		36 X 36			7.460							ON SIGNAL POLE				
100	R1-1F(3)		36 X 36			7.460							ON SIGNAL POLE				
101	R1-1F(3)		36 X 36			7.460			1								
102	R6-2L(2M)		30 X 36	7.500									ON SIGNAL POLE				
103	R6-3(2M)		30 X 24	5.000									ON SIGNAL POLE				
104	R1-2(2M)		48 X 42	7.000					1								
105	R1-1F(3)		36 X 36			7.460							ON SIGNAL POLE				
106	R1-1F(3)		36 X 36			7.460							ON SIGNAL POLE				
107	R1-2(2M)		48 X 42	7.000					1								
108	R5-1(2M)		36 X 36	9.000									ON SIGNAL POLE				
109	R4-7(2M)		24 X 30	5.000									ON SIGNAL POLE				
110	R6-2L(2M)		30 X 36	7.500									ON SIGNAL POLE				
111	R5-1(2M)		36 X 36	9.000								101					
112	R5-1(2M)		36 X 36	9.000					1								
113	M1-94H	WEST FRONTAGE RD	96 X 18	12.000									ON MAST ARM SIGNAL.				
114	R4-7(2S)		24 X 30	5.000									ON SIGNAL POLE				
115	R4-7(2M)		24 X 30	5.000									ON SIGNAL POLE				
116	M1-94H	WEST FRONTAGE RD	96 X 18										ON MAST ARM SIGNAL				
117	R5-1(2M)		36 X 36	9.000									ON SIGNAL POLE				
118	R3-20LL(2M)		24 X 36	6.000					1								
119	R11-54F(2M)		48 X 30			10.000			2								
120	R6-2L(2M)		30 X 36	7.500									ON SIGNAL POLE				
121	R7-1D(2M)		24 X 30	5.000					1								
122	J2-2(2M)		48 X 57	19.000					1								
	MB3-1		24 X 12														
	M1-1	IH 41	24 X 24														
	MB5-1L		21 X 21														
	MB3-4		24 X 12														
	M1-1	IH 94	24 X 24														
	MB5-1L		21 X 21														
123	R4-7(2M)		24 X 30	5.000					1								
124	D1-1	MILWAUKEE WITH ARROW	72 X 15	7.500					2								
125	R1-1F(3)		36 X 36			7.460							ON SIGNAL POLE				
126	R1-1F(3)		36 X 36			7.460							ON SIGNAL POLE				
127	R3-1(2M)		36 X 36	9.000					1								
128	R5-1(2M)		36 X 36	9.000									ON SIGNAL POLE				
129	R5-1A(2S)		36 X 24	6.000								128	3 FOOT MOUNTING HEIGHT				
130	R5-1(2M)		36 X 36	9.000					1								
131	R5-1A(2S)		36 X 24	6.000								130	3 FOOT MOUNTING HEIGHT				
132	R6-2L(2M)		30 X 36	7.500					1								

TYPE I & II PERMANENT SIGNING

1033-02-71 IH 94 at STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.] x [IN.]	**637.2210** SIGNS TYPE II REFLECTIVE H [SF]	**637.2230** SIGNS TYPE II RELFECTIVE F [SF]	**637.2215** SIGNS TYPE II REFLECTIVE H FOLDING [SF]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	**634.0618** POSTS WOOD 4" X 6" X 18' [EA]	**634.0622** POSTS WOOD 4" X 6" X 22' [EA]	**634.0816** POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	**637.1220** SIGNS TYPE I REFLECTIVE SH [SF]	**637.1230** SIGNS TYPE I REFLECTIVE F [SF]	**638.2101** MOVING SIGNS TYPE I [EA]
133	R4-4(2M)		36 X 30	7.500					1								
134	D1-60	EAST FRONTAGE RD NORTH - SOUTH	96 X 24	16.000					2								
135	R1-1F(3)		36 X 36			7.460							ON SIGNAL POLE				
136	R1-1F(3)		36 X 36			7.460			1								
137	R1-1F(3)		36 X 36			7.460			1								
138	R4-7(2M)		24 X 30	5.000									ON SIGNAL POLE				
139	J3-2(2M)		48 X 57	19.000					1								
	MB3-1		24 X 12														
	M1-1	IH 41	24 X 24														
	MB6-1		21 X 21														
	MB3-4		24 X 12														
	M1-1	IH 94	24 X 24														
	MB6-1		21 X 21														
140	R5-1(2M)		36 X 36	9.000									ON SIGNAL POLE				
141	R3-18(2M)		36 X 36	9.000								143					
142	R1-1F(3)		36 X 36			7.460							ON SIGNAL POLE				
143	R1-1F(3)		36 X 36			7.460			1								
144	R5-1(2M)		36 X 36	9.000					1								
145	R1-1F(2M)		36 X 36			7.460							MOUNT ON LIGHT POLE				
146	R11-54F(2M)		48 X 30			10.000			2								
147	R11-54F(2M)		48 X 30			10.000			2								
148	R6-2L(2M)		30 X 36	7.500									ON SIGNAL POLE				
149	J3-2(2M)		48 X 57	19.000									ON SIGNAL POLE				
	MB3-3		24 X 12														
	M1-1	IH 41	24 X 24														
	MB6-1		21 X 21														
	MB3-2		24 X 12														
	M1-1	IH 94	24 X 24														
	MB6-1		21 X 21														
150	R4-7(2M)		24 X 30	5.000									ON SIGNAL POLE				
151	D1-1	CHICAGO ARROW LEFT	60 X 15	6.250					2								
152	R7-1D(2M)		24 X 30	5.000					1								
153	R3-1(2M)		36 X 36	9.000					1								
154	R5-1(2M)		36 X 36	9.000									ON SIGNAL POLE				
155	R1-1F(3)		36 X 36			7.460							ON SIGNAL POLE				
156	R1-1F(3)		36 X 36			7.460						123					
157	R7-1D(2M)		24 X 30	5.000					1								
158	R5-1A(2M)		42 X 30	8.750								157					
159	D1-60	EAST FRONTAGE RD NORTH - SOUTH	96 X 24	16.000					2								

TYPE I & II PERMANENT SIGNING

1033-02-71 IH 94 at STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.] x [IN.]	**637.2210** SIGNS TYPE II REFLECTIVE H [SF]	**637.2230** SIGNS TYPE II RELFECTIVE F [SF]	**637.2215** SIGNS TYPE II REFLECTIVE H FOLDING [SF]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	**634.0618** POSTS WOOD 4" X 6" X 18' [EA]	**634.0622** POSTS WOOD 4" X 6" X 22' [EA]	**634.0816** POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	**637.1220** SIGNS TYPE I REFLECTIVE SH [SF]	**637.1230** SIGNS TYPE I REFLECTIVE F [SF]	**638.2101** MOVING SIGNS TYPE I [EA]
160	J3-2(2M)		48 X 69	23.000						2							
	MB4-1		24 X 12														
	MB3-1		24 X 12														
	M1-1	IH 41	24 X 24														
	MB6-1		21 X 21														
	MB4-1		24 X 12														
	MB3-4		24 X 12														
	M1-1	IH 94	24 X 24														
	MB6-1		21 X 21														
161	R3-7R(3)		36 X 36	9.000					1								
162	R3-20LL(2M)		24 X 36	6.000					1								
163	J3-2(2M)		48 X 69	23.000						2							
	MB4-1		24 X 12														
	MB3-3		24 X 12														
	M1-1	IH 41	24 X 24														
	MB6-1		21 X 21														
	MB4-1		24 X 12														
	MB3-2		24 X 12														
	M1-1	IH 94	24 X 24														
	MB6-1		21 X 21														
164	M1-95A(2M)		24 X 30	5.000													
	M6-4		21 X 21									164	PART OF SIGN # 164				
165	M1-95A(2M)		24 X 30	5.000													
	M6-4		21 X 21									165	PART OF SIGN # 164				
166	R5-1(2M)		36 X 36	9.000								165					
167	R1-2(2M)		48 X 42	7.000					1								
168	R6-2L(2M)		30 X 36	7.500									ON SIGNAL POLE				
169	R1-1F(3)		36 X 36			7.460							ON SIGNAL POLE				
170	R1-1F(3)		36 X 36			7.460							ON SIGNAL POLE				
171	R5-1(2M)		36 X 36	9.000									ON SIGNAL POLE				
172	R4-7(2M)		24 X 30	5.000									ON SIGNAL POLE				
173	R4-7(2M)		24 X 30	5.000									ON SIGNAL POLE				
174	R1-1F(3)		36 X 36			7.460							ON SIGNAL POLE				
175	R6-3A(2M)		30 X 24	5.000									ON SIGNAL POLE				
176	R1-1F(3)		36 X 36			7.460							ON SIGNAL POLE				
177	R5-1(2M)		36 X 36	9.000									ON SIGNAL POLE				
178	M1-94H	EAST FRONTAGE RD	96 X 18	12.000									MOUNT ON SIGNAL ARM				
179	R5-1(2M)		36 X 36	9.000									ON SIGNAL POLE				
180	R6-2L(2M)		30 X 36	7.500									ON SIGNAL POLE				
181	R5-1(2M)		36 X 36	9.000									ON SIGNAL POLE				
182	R1-2(2M)		48 X 42	7.000					1								

TYPE I & II PERMANENT SIGNING

1033-02-71 IH 94 at STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.] x [IN.]	**637.2210** SIGNS TYPE II REFLECTIVE H [SF]	**637.2230** SIGNS TYPE II RELFECTIVE F [SF]	**637.2215** SIGNS TYPE II REFLECTIVE H FOLDING [SF]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	**634.0618** POSTS WOOD 4" X 6" X 18' [EA]	**634.0622** POSTS WOOD 4" X 6" X 22' [EA]	**634.0816** POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	**637.1220** SIGNS TYPE I REFLECTIVE SH [SF]	**637.1230** SIGNS TYPE I REFLECTIVE F [SF]	**638.2101** MOVING SIGNS TYPE I [EA]
183	R6-3A(2M)		30 X 24	5.000									ON SIGNAL POLE				
184	R1-1F(3)		36 X 36			7.460							ON SIGNAL POLE				
185	R1-1F(3)		36 X 36			7.460							ON SIGNAL POLE				
186	R1-1(F)		36 X 36			7.460			1								
187	R6-2L(2M)		30 X 36	7.500					1								
188	R4-4(2M)		36 X 30	7.500					1								
189	NOT USED																
190	R5-1A(2M)		42 X 30	8.750					1								
191	D1-1	MILWAUKEE ARROW RIGHT	72 X 15	7.500					2								
192	R3-7R(3)		36 X 36	9.000					1								
193	D16-1												MOUNT ON S-51-230. I BEAMS INCIDENTAL	6 X 6	36.00		
194	D16-1												MOUNT ON S-51-230 I BEAMS INCIDENTAL	6 X 6	36.00		
195	D1-1	CHICAGO AHEAD ARROW	60 X 15	6.250					2								
196	J2-2(2M)		48 X 60	20.000					2								
	MB3-3		24 X 12														
	M1-1	IH 41	24 X 24														
	MB4-20L		24 X 24														
	MB3-2		24 X 12														
	M1-1	IH 94	24 X 24														
	MB4-20L		24 X 24														
197	M1-94H	EAST FRONTAGE RD	96 X 18	12.000									MOUNT ON SIGNAL ARM				
198	R1-2(2M)		48 X 42	7.000					1								
199	R6-2L(2M)		30 X 36	7.500					1								
200	W9-1R(2M)		36 X 36		9.000				1								
201	I55-56						1	1	1				DO NOT REPLACE. THIS IS HANDLED BY SEPARATE PROGRAM				
202	D1-3	STURTEVANT 2, HWY 31 5, RACINE 9	78 X 36	19.500					2								
203	R7-1R(2M)		24 X 30	5.000					1								
204	W4-2R(2M)		36 X 36		9.000				1								
205	J4-1(2M)		24 X 36	6.000					1								
	M3-2		24 X 12														
	M1-6	STH 20	24 X 24														
206	R4-4(2M)		36 X 30	7.500					1								
207	R7-1L(2M)		24 X 30	5.000					1								
208	R3-20LL(2M)		24 X 36	6.000					1								
209	J3-2(2M)		48 X 57	19.000					2								
	MB3-3		24 X 12														
	M1-1	IH 41	24 X 24														
	MB6-1		21 X 21														
	MB3-2		24 X 12														
	M1-1	IH 94	24 X 24														
	MB6-1		21 X 21														
210	M1-95A(2M)		24 X 30	5.000					1								

TYPE I & II PERMANENT SIGNING

1033-02-71 IH 94 at STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	**637.2210** SIGNS TYPE II REFLECTIVE H [SF]	**637.2230** SIGNS TYPE II RELFECTIVE F [SF]	**637.2215** SIGNS TYPE II REFLECTIVE H FOLDING [SF]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	**634.0618** POSTS WOOD 4" X 6" X 18' [EA]	**634.0622** POSTS WOOD 4" X 6" X 22' [EA]	**634.0816** POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	**637.1220** SIGNS TYPE I REFLECTIVE SH [SF]	**637.1230** SIGNS TYPE I REFLECTIVE F [SF]	**638.2101** MOVING SIGNS TYPE I [EA]
211	M6-4		21 X 21									210					
212	R1-1F(3)		36 X 36			7.460							MOUNT ON SIGNAL POLE				
213	R1-1F(3)		36 X 36			7.460							MOUNT ON SIGNAL POLE				
214	R3-20L (2M)		24 X 36	6.000					1								
215	R2-1(2M)	SPEED LIMIT 45	30 X 36	7.500					1								
216	R2-1(2M)	SPEED LIMIT 45	30 X 36	7.500					1								
217	I2-3	MOUNT PLEASANT POPULATION 26197	102 X 24	17.000					2								
218	D12-2A		60 X 42	17.500					2								
219	R10-64						1	1			1		PERMIT SIGN - VILLAGE SIGN				
220	NOT USED																
221	NOT USED																
222	NOT USED																
223	NOT USED																
224	NOT USED																
225	D1-60	EAST FRONTAGE RD SOUTH NORTH	96 X 24	16.000					2								
226	D1-60	EAST FRONTAGE RD SOUTH NORTH	96 X 24	16.000					2								
227	J1-2(2M) MB2-1 M1-1	 IH 41	48 X 39 24 X 15 24 X 24	13.000					1								
	MB2-1		24 X 15														
228	M1-1 J1-2(2M) MB2-1 M1-1	IH 94 IH 41	 48 X 39 24 X 15 24 X 24	13.000					1								
	MB2-1		24 X 15														
	M1-1	IH 94															
229	I55-56						1	1	1				MOVE DO NOT REPLACE. HANDLED BY SEPARATE PROGRAM				
230	R2-1(2M)	SPEED LIMIT 55	30 X 36	7.500					1								
231	R2-1(2M)	SPEED LIMIT 55	30 X 36	7.500					1								
232	R2-1(3)	SPEED LIMIT 45	36 X 48	12.000					1								
233	R2-1(3)	SPEED LIMIT 45	36 X 48	12.000					1								
234	D12-2A(2M)		60 X 42	17.500					2								
235	W3-3(2M)		36 X 36		9.000				1								
236	W3-3(2M)		36 X 36		9.000				1								
237	NOT USED																
238	R5-1(2M)		36 X 36	9.000					1								
239	R4-7(2M)		24 X 30	5.000					1								
240	R4-7(2M)		24 X 30	5.000					1								

3

SHEET 9 OF 19

TYPE I & II PERMANENT SIGNING

1033-02-71 IH 94 at STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.] x [IN.]	**637.2210** SIGNS TYPE II REFLECTIVE H [SF]	**637.2230** SIGNS TYPE II RELFECTIVE F [SF]	**637.2215** SIGNS TYPE II REFLECTIVE H FOLDING [SF]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	**634.0618** POSTS WOOD 4" X 6" X 18' [EA]	**634.0622** POSTS WOOD 4" X 6" X 22' [EA]	**634.0816** POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	**637.1220** SIGNS TYPE I REFLECTIVE SH [SF]	**637.1230** SIGNS TYPE I REFLECTIVE F [SF]	**638.2101** MOVING SIGNS TYPE I [EA]
241	R6-2L(2M)		30 X 36	7.500					1								
242	W3-5(2M)	45 MPH	36 X 36		9.000				1								
243	W3-5(2M)	45 MPH	36 X 36		9.000				1								
244	W3-3(2S)		36 X 36		9.000				1								
245	R7-64(2S)		48 X 30	10.000					1								
246	J2-4(2S)		96 X 69	46.000						3							
	M3-4		24 X 12														
	M1-6	STH 20	24 X 24														
	M5-1L		21 X 21														
	M1-6	STH 20	24 X 24														
	M5-1R		21 X 21														
	MB4-1		24 X 12														
	MB3-1		24 X 12														
	M1-1	IH 41	24 X 24														
	MB5-1R		21 X 21														
	MB3-4		24 X 12														
	M1-1	IH 94	24 X 24														
	MB5-1R		21 X 21														
247	D1-3	WATERFORD	102 X 36	25.500						2							
		RACINE															
		MOUNT PLEASANT						1				247					
248		AMTRAK STATION	60 X 24	10.000					2								
249		FRANK LLOYD WRIGHT SIGN					2	1	2								
250	J3-3(2S)		72 X 75	37.500						2							
	M3-4		24 X 12														
	M1-6	STH 20	24 X 24														
	M6-1		21 X 21														
	M3-2		24 X 12														
	M1-6	STH 20	24 X 24														
	M6-1		21 X 21														
	M4-5		24 X 12														
	M1-95A	EAST	24 X 30														
	M6-1		21 X 21														
251		SHERIFF'S SUBSTATION					2	1	2								
252	R5-57(5)		36 X 36	9.000					1								
253	R7-64(2S)		48 X 30	10.000					1								
254	W4-2R(2S)		36 X 36		9.000				1								
255		TOURIST INFORMATION					2	1	2								

TYPE I & II PERMANENT SIGNING

1033-02-71 IH 94 at STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.]	**637.2210** SIGNS TYPE II REFLECTIVE H [SF]	**637.2230** SIGNS TYPE II RELFECTIVE F [SF]	**637.2215** SIGNS TYPE II REFLECTIVE H FOLDING [SF]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	**634.0618** POSTS WOOD 4" X 6" X 18' [EA]	**634.0622** POSTS WOOD 4" X 6" X 22' [EA]	**634.0816** POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.]	**637.1220** SIGNS TYPE I REFLECTIVE SH [SF]	**637.1230** SIGNS TYPE I REFLECTIVE F [SF]	**638.2101** MOVING SIGNS TYPE I [EA]
256	J3-1(2S)		24 X 63	10.500						1							
	M4-5		24 X 12														
	M1-95A	WEST	24 X 30														
	M6-1		21 X 21														
257	NONE	AMTRAK STATION	60 X 24	10.000					2								
258	J3-3(2S)		72 X 75	37.500						2							
	M4-5		24 X 12														
	M3-2		24 X 12														
	M1-95A	EAST	24 X 30														
	M6-1		21 X 21														
	M3-2		24 X 12														
	M1-6	STH 20	24 X 24														
	M6-1		21 X 21														
	M3-4		24 X 12														
	M1-6	STH 20	24 X 24														
	M6-1		21 X 21														
259	R5-1A(3)		42 X 30	8.750									MOUNT ON UPRIGHT OF S-51-250				
260	R5-1A(3)		42 X 30	8.750									MOUNT ON UPRIGHT OF S-51-250				
261	R7-64(2S)		48 X 30	10.000					1								
262	D4-2R						1	1	1				SHEET 13 OF 15				
263	NOT USED																
264	R3-5R(2S)												MOUNT ON S-51-250, I BEAMS INCIDENTAL	3.5 X 4	14.00		
265	R3-6L(2S)												MOUNT ON S-51-250, I BEAMS INCIDENTAL	3.5 X 4	14.00		
266	R3-5L(2S)												MOUNT ON S-51-250, I BEAMS INCIDENTAL	3.5 x 4	14.00		
267		FRANK LLOYD WRIGHT SIGN					2	1	2								
268	D1-3						2	1	2								
269	R5-57(5)		36 X 36	9.000					1								
270	R7-64(2S)		48 X 30	10.000					1								
271	J3-1(2S)		24 X 63	10.500						1							
	M4-5		24 X 12														
	M1-95A	WEST	24 X 30														
	M6-1		21 X 21														
272	D4-2L(2S)		30 X 36	7.500					1								
273	R3-5R(2S)												MOUNT ON S-51-249, I BEAMS INCIDENTAL	3.5 X 4	14.00		
274	R3-5R(2S)												MOUNT ON S-51-249, I BEAMS INCIDENTAL	3.5 X 4	14.00		
275	R3-6L(2S)												MOUNT ON S-51-249, I BEAMS INCIDENTAL	3.5 X 4	14.00		
276	R3-5L(2S)												MOUNT ON S-51-249, I BEAMS INCIDENTAL	3.5 X 4	14.00		
277	R5-1A(3)		42 X 30	8.750									MOUNT ON UPRIGHT OF S-51-249				
278	R5-1A(3)		42 X 30	8.750									MOUNT ON UPRIGHT OF S-51-249				
279	D4-55L(2S)		36 X 36	9.000					1								
280		TOURIST INFO					2	1	2								

TYPE I & II PERMANENT SIGNING

1033-02-71 IH 94 at STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.]	**637.2210** SIGNS TYPE II REFLECTIVE H [SF]	**637.2230** SIGNS TYPE II RELFECTIVE F [SF]	**637.2215** SIGNS TYPE II REFLECTIVE H FOLDING [SF]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	**634.0618** POSTS WOOD 4" X 6" X 18' [EA]	**634.0622** POSTS WOOD 4" X 6" X 22' [EA]	**634.0816** POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	**637.1220** SIGNS TYPE I REFLECTIVE SH [SF]	**637.1230** SIGNS TYPE I REFLECTIVE F [SF]	**638.2101** MOVING SIGNS TYPE I [EA]
281	W4-2R(2S)		36 X 36		9.000				1								
282	J1-1(2S)		24 X 36	6.000					1								
	M2-1		24 X 12														
	M1-6	STH 20	24 X 24														
283	W3-3(2S)		36 X 36		9.000				1								
284	R3-9B(2S)		24 X 36	6.000					1								
284A	R3-9D(2S)		24 X 6	1.000								284					
285	J3-3(2S)		72 X 57	28.500					2								
	M1-6	STH 20	24 X 24														
	M6-4		21 X 21														
	MB4-5		24 X 12														
	M1-1	IH 41	24 X 24														
	MB6-1		21 X 21														
	MB4-5		24 X 12														
	M1-1	IH 94	24 X 24														
	MB6-1		21 X 21														
286	R4-7(2S)		24 X 30	5.000					1								
287	R3-8W(2S)		54 X 30	11.250					2								
288	R2-1(2S)	SPEED LIMIT 35	24 X 30	5.000					1								
289	R5-1(2S)		30 X 30	6.250					1								
290	R4-7(2S)		24 X 30	5.000					1								
291	R3-9B(2S)		24 X 36	6.000					1								
292	R3-8W(2S)		54 X 30	11.250					2								
293	J3-3(2S)		72 X 57	28.500					2								
	M1-6	STH 20	24 X 24														
	M6-4		21 X 21														
	MB4-5		24 X 12														
	M1-1	IH 41	24 X 24														
	MB6-1		21 X 21														
	MB4-5		24 X 12														
	M1-1	IH 94	24 X 24														
	MB6-1		21 X 21														
294	R2-1(2S)	SPEED LIMIT 35	24 X 30						1								
295	R5-1(2S)		30 X 30	6.250					1								
296	R7-1D(2S)		18 X 24	3.000					1								
297	M1-95A	WEST	24 X 30	5.000					1								
298	R3-9B(2S)		24 X 36	6.000					1								
299	R2-1(2S)	SPEED LIMIT 35	24 X 30						1								
300	W3-3(2S)		36 X 36		9.000				1								
301	J1-1(2S)		24 X 36	6.000					1								
	M2-1		24 X 12														
	M1-6	STH 20	24 X 24														

3

TYPE I & II PERMANENT SIGNING

1033-02-71 IH 94 at STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.] x [IN.]	**637.2210** SIGNS TYPE II REFLECTIVE H [SF]	**637.2230** SIGNS TYPE II RELFECTIVE F [SF]	**637.2215** SIGNS TYPE II REFLECTIVE H FOLDING [SF]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	**634.0618** POSTS WOOD 4" X 6" X 18' [EA]	**634.0622** POSTS WOOD 4" X 6" X 22' [EA]	**634.0816** POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	**637.1220** SIGNS TYPE I REFLECTIVE SH [SF]	**637.1230** SIGNS TYPE I REFLECTIVE F [SF]	**638.2101** MOVING SIGNS TYPE I [EA]
302	R4-7(2S)		24 X 30	5.000					1								
303	R5-1A(2S)		36 X 24	6.000					1								
304	J3-3(2S)		72 X 57	28.500					2								
	M1-6	STH 20	24 X 24														
	M6-4		21 X 21														
	MB4-5		24 X 12														
	M1-1	IH 41	24 X 24														
	MB6-1		21 X 21														
	MB4-5		24 X 12														
	M1-1	IH 94	24 X 24														
	MB6-1		21 X 21														
305	NOT USED																
306	R3-8GGG		72 X 30	15.000					2								
307	R3-2(2S)		24 X 24	4.000					1								
308	NOT USED																
309	NOT USED																
310	R3-2(2S)		24 X 24	4.000					1								
311	R6-2R(2S)		24 X 30	5.000					1								
312	R5-1(2S)		30 X 30	6.250					1								
313	R4-7(2S)		24 X 30	5.000					1								
314	R4-7(2S)		24 X 30	5.000					1								
315	M1-95A	EAST	24 X 30	5.000					1								
316		ADOPT A HIGHWAY					1	1	1								
317	R5-1A(2S)		36 X 24	6.000					1								
318	W6-2(2S)		36 X 36		9.000				1								
319	R5-1(2S)		30 X 30	6.250					1								
320	W4-2R(2S)		36 X 36		9.000				1								
321	W4-2R(2S)		36 X 36		9.000				1								
322	R5-1A(2S)		36 X 24	6.000					1								
323	R71-D(2S)		18 X 24	3.000					1								
324	R2-1(2S)	SPEED LIMIT 35	24 X 30	5.000					1								
325	R3-20L(2S)		24 X 36	6.000					1								
326	R2-1(2S)	SPEED LIMIT 35	24 X 30	5.000					1								
327	W1-2L(2S)		30 X 30		6.250				1								
328	W1-2L(2S)		30 X 30		6.250				1								
329	R5-1(2S)		30 X 30	6.250					1								
330	R6-2R(2S)		24 X 30	5.000					1								
331	R3-2(2S)		24 X 24	4.000					1								
332	R4-7(2S)		24 X 30	5.000					1								
333	W4-2R(2S)		36 X 36		9.000				1								

TYPE I & II PERMANENT SIGNING

1033-02-71 IH 94 at STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.]	**637.2210** SIGNS TYPE II REFLECTIVE H [SF]	**637.2230** SIGNS TYPE II RELFECTIVE F [SF]	**637.2215** SIGNS TYPE II REFLECTIVE H FOLDING [SF]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	**634.0618** POSTS WOOD 4" X 6" X 18' [EA]	**634.0622** POSTS WOOD 4" X 6" X 22' [EA]	**634.0816** POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.]	**637.1220** SIGNS TYPE I REFLECTIVE SH [SF]	**637.1230** SIGNS TYPE I REFLECTIVE F [SF]	**638.2101** MOVING SIGNS TYPE I [EA]
334	M1-95A	EAST	24 X 30	5.000					1								
335	R5-1(2S)		30 X 30	6.250					1								
336	R3-7R(2S)		30 X 30	6.250					1								
337	R3-8V(2S)		72 X 30	15.000					2								
338	J3-3(2S)		72 X 57	28.500					2								
	M1-6	STH 20	24 X 24														
	M6-4		21 X 21														
	MB4-5		24 X 12														
	M1-1	IH 41	24 X 24														
	MB6-1		21 X 21														
	MB4-5		24 X 12														
	M1-1	IH 94	24 X 24														
	MB6-1		21 X 21														
339	R3-50L(2M)		30 X 36	7.500									MOUNT ON SIGNAL ARM, SHEET 6 OF 15				
340	R3-50L(2M)		30 X 36	7.500									MOUNT ON SIGNAL ARM, SHEET 6 OF 15				
341	R1-1F(3)		36 X 36			7.460				1			SHEET 5 OF 15				
342	R1-1F(3)		36 X 36			7.460							MOUNT ON SIGNAL POLE. SHEET 5 OF 15				
343	R4-7(2M)		24 X 30	5.000									ON SIGNAL POLE . Sheet 7 of 15				
344	W9-1R(2M)		36 X 36		9.000				1				SHEET 8 OF 15				
345	W4-2R(2M)		36 X 36		9.000				1				SHEET 8 OF 15				
346	NONE	GATEWAY TECH SIGN						1				247	SHEET 13 OF 15				
347		GATEWAY TECH SIGN						1				257	SHEET 13 OF 15				
348	W2-6						1	1	1				SHEET 1 OF 15				
348A	W13-1							1					SHEET 1 OF 15				
349	D4-2L						1	1	1				SHEET 1 OF 15				
350	R1-1						1	1	1				SHEET 2 OF 15				
351	R6-3A							1					SHEET 2 OF 15				
352	R2-1	SPEED LIMIT 45					1	1	1				SHEET 2 OF 15				
353	R2-1	SPEED LIMIT 45					1	1	1				SHEET 2 OF 15				
354	R10-50L(2M)		30 X 36	7.500									SIGNAL POLE - SHEET 5 OF 15				
355	R10-50L(2M)		30 X 36	7.500									SIGNAL ARM - SHEET 5 OF 15				
356	R10-50L(2M)		30 X 36	7.500									SIGNAL ARM - SHEET 5 OF 15				
357	R10-50L(2M)		30 X 36	7.500									SIGNAL POLE - SHEET 5 OF 15				
358	R10-50L(2M)		30 X 36	7.500									SIGNAL POLE - SHEET 7 OF 15				
359	R10-50L(2M)		30 X 36	7.500									SIGNAL ARM - SHEET 7 OF 15				
360	R10-50L(2M)		30 X 36	7.500									SIGNAL ARM - SHEET 7 OF 15				
361	R10-50L(2M)		30 X 36	7.500									SIGNAL POLE - SHEET 7 OF 15				

3

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.] x [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H [SF]	637.2230 SIGNS TYPE II RELFECTIVE F [SF]	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING [SF]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	638.2102 MOVING SIGNS TYPE II [EA]	634.0618 POSTS WOOD 4" X 6" X 18' [EA]	634.0622 POSTS WOOD 4" X 6" X 22' [EA]	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	637.1220 SIGNS TYPE I REFLECTIVE SH [SF]	637.1230 SIGNS TYPE I REFLECTIVE F [SF]	638.2101 MOVING SIGNS TYPE I [EA]
362	NONE	STH 20 WEST WITH DOWN ARROWS											MOUNT ON S-51-230. I BEAMS INCIDENTAL	15 X 4.5	67.50		
363	NONE	NORTH 41, WEST 94 ONLY											MOUNT ON S-51-230. I BEAMS INCIDENTAL	15 X 7	105.00		
364	NONE	EAST FRONTAGE RD SOUTH											SHEET 8 OF 15. MOUNT ON S-51-259 I BEAMS INCIDENTAL	7 X 7	49.00		
365	NONE	SOUTH 41, EAST 94, WEST 20											SHEET 8 OF 15. MOUNT ON S-51-259 I BEAMS INCIDENTAL	9 X 5	45.00		
366	NONE	WEST 20 DOWN ARRROW											SHEET 8 OF 15. MOUNT ON S-51-259 I BEAMS INCIDENTAL	3 x 5	15.00		
367	NONE	NORTH 41, WEST 94 ONLY											SHEET 8 OF 15. MOUNT ON S-51-259 I BEAMS INCIDENTAL	15 X 5	75.00		
368	NONE	EAST FRONTAGE RD NORTH											SHEET 8 OF 15. MOUNT ON S-51-259 I BEAMS INCIDENTAL	7 X 7	49.00		
369	NOT USED																
370-499	NOT USED																
500	NOT USED																
501	NONE	SOUTH RED CLOUD DR ONLY											SHEET 9 OF 15, MOUNT ON S-51-260, I BEAMS INCIDENTAL	8 X 7	56.00		
502	NONE	SOUTH GALAXY DR ONLY											SHEET 9 OF 15, MOUNT ON S-51-260, I BEAMS INCIDENTAL	6 X 7	42.00		
503	R3-7R(2M)		30 X 30	6.250									MOUNT ON UPRIGHT OF S-51-260				
504	R3-7R(2M)		30 X 30	6.250					1				SHEET 9 FO 15				
505																	
506	R1-1(2M)		36 X 36	7.460					1				SHEET 9 OF 15				
507	R6-2L(2M)		30 X 36	7.500					1								
508	R6-2L(2M)		30 X 36	7.500					1								
509	R5-1(2M)		36 X 36	9.000													
510	NOT USED																
511	R3-2(2M)		36 X 36	9.000					1				SHEET 9 OF 15				
512	R3-2(2M)		36 X 36	9.000								525	SHEET 9 OF 15				
513	R3-2(2M)		36 X 36	9.000								526	SHEET 9 OF 15				
514	R5-1(2M)		36 X 36	9.000					1				SHEET 9 OF 15				
515	R5-1(2M)		36 X 36	9.000								514	SHEET 9 OF 15				
516	W12-1R(2M)		24 X 24		4.000				1				SHEET 9 OF 15. 2 FOOT MOUNTING HEIGHT				
517	R4-7(2S)		24 X 30	5.000					1				SHEET 9 OF 15.				

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H [SF]	637.2230 SIGNS TYPE II RELFECTIVE F [SF]	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING [SF]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	638.2102 MOVING SIGNS TYPE II [EA]	634.0618 POSTS WOOD 4" X 6" X 18' [EA]	634.0622 POSTS WOOD 4" X 6" X 22' [EA]	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.]	637.1220 SIGNS TYPE I REFLECTIVE SH [SF]	637.1230 SIGNS TYPE I REFLECTIVE F [SF]	638.2101 MOVING SIGNS TYPE I [EA]
518	R1-1(2M)		36 X 36	7.460					1				SHEET 9 OF 15				
519	R1-1(2M)		36 X 36	7.460					1				SHEET 9 OF 15				
520	R3-53R(2S)		24 X 30	5.000								519	SHEET 9 OF 15				
521	W3-1(2S)		36 X 36		9.000						1		SHEET 9 OF 15				
522	R5-1C(2M)		36 X 36	7.460								519	TRIM TO OCTAGON SHAPE SHEET 9 OF 15				
523	J3-1		24 X 45	7.500					1				SHEET 9 FO 15				
	M1-6	STH 20	24 X 24														
	M6-4		21 X 21														
524	R6-2R(2M)		30 X 36	7.500					1								
525	R4-7(2M)		24 X 30	5.000					1								
526	R4-7(2M)		24 X 30	5.000					1								
526	W3-3(2M)		36 X 36		9.000				1				SHEET 10 FO 15 TEMP FLAGS INCIDENTAL				
528	W3-3(2M)		36 X 36		9.000				1				SHEET 10 FO 15 TEMP FLAGS INCIDENTAL				
529	R4-4(2M)		36 X 30	7.500					1				SHEET 10 FO 15				
530	NONE	SOUTH RED CLOUD DR ONLY											MOUNT ON S-51-261 , I BEAMS INCIDENTAL . SHEET 10 OF 15	8 X 7	56.00		
531	R3-20LL(2M)		24 X 36	6.000					1				SHEET 10 OF 15				
532	R1-1F(2M)		36 X 36			7.460							MOUNT ON SIGNAL POLE. SHEET 10 OF 15				
533	R1-1F(2M)		36 X 36			7.460							MOUNT ON SIGNAL POLE. SHEET 10 OF 15				
534	R1-1F(2M)		36 X 36			7.460							MOUNT ON SIGNAL POLE. SHEET 10 OF 15				
535	R3-7R(2M)		30 X 30	6.250					1				SHEET 10 OF 15				
536	R2-1(2M)	45 MPH	30 X 36	7.500					1				SHEET 10 OF 15				
537	R2-1(2M)	45 MPH	30 X 36	7.500					1				SHEET 10 OF 15				
538	R3-20L(2M)		24 X 36	6.000					1				SHEET 10 OF 15				
539	J4-1(2M)		24 X 36	6.000					1				SHEET 10 OF 15				
	M1-6	STH 20	24 X 24														
	M3-4		24 X 12														
540	J4-1(2M)		24 X 36	6.000					1				SHEET 10 OF 15				
	M1-6	STH 20	24 X 24														
	M3-4		24 X 12														
541	R3-20LL(2M)		24 X 36	6.000					1				SHEET 10 OF 15				
542	R3-7R(2M)		30 X 30	6.250					1				SHEET 10 OF 15				
543	R3-20L(2M)		24 X 36	6.000					1				SHEET 10 OF 15				
544	R3-7R(2M)		30 X 30	6.250					1				SHEET 11 OF 15				
545	R5-1(2M)		36 X 36	9.000								544	SHEET 11 OF 15				
546	R6-2L(2M)		30 X 36	7.500					1				SHEET 11 OF 15				
547	M1-94S	20 WASHINGTON AVE	96 X 18	12.000									MOUNT ON SIGNAL ARM. SHEET 11 OF 15				

TYPE I & II PERMANENT SIGNING

1033-02-71 IH 94 at STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	**637.2210** SIGNS TYPE II REFLECTIVE H [SF]	**637.2230** SIGNS TYPE II RELFECTIVE F [SF]	**637.2215** SIGNS TYPE II REFLECTIVE H FOLDING [SF]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	**634.0618** POSTS WOOD 4" X 6" X 18' [EA]	**634.0622** POSTS WOOD 4" X 6" X 22' [EA]	**634.0816** POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	**637.1220** SIGNS TYPE I REFLECTIVE SH [SF]	**637.1230** SIGNS TYPE I REFLECTIVE F [SF]	**638.2101** MOVING SIGNS TYPE I [EA]
548	R3-8WW(2S)		72 X 30	15.000							2		SHEET 11A OF 15				
549	J3-1(2S)		24 X 45	7.500							1		SHEET 11A OF 15				
	M1-6	STH 20	24 X 24														
	M6-4		21 X 21														
550	W3-3(2S)		36 X 36		9.000						1		SHEET 11A OF 15				
551	W3-3(2S)		36 X 36		9.000						1		SHEET 11A OF 15				
552	R3-8WW(2S)		72 X 30	15.000							2		SHEET 11A OF 15				
553	R1-1F(2M)		36 X 36			7.460							MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
554	R6-3(2M)		30 X 24	5.000									MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
555	R1-1F(2M)		36 X 36			7.460							MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
556	R1-2(2M)		48 X 42	7.000					1				SHEET 11 OF 15				
557	R6-2L(2M)		30 X 36	7.500									ON SIGNAL POLE. SHEET 11 OF 15				
558	M1-94H	RED CLOUD DR	96 X 18	12.000									MOUNT ON SIGNAL ARM. SHEET 11 OF 15				
559	J4-1(2M)		24 X 36	6.000					1				SHEET 11 OF 15				
	M1-6	STH 20	24 X 24														
	M3-2		24 X 12														
560	J4-1(2M)		24 X 36	6.000					1				SHEET 11 OF 15				
	M1-6	STH 20	24 X 24														
	M3-2		24 X 12														
561	R3-20LL(2M)		24 X 36	6.000					1				SHEET 11 OF 15				
562	R10-50L(2M)		30 X 36	7.500									MOUNT ON SIGNAL ARM OR POLE SHEET 11 OF 15				
563	R10-50L(2M)		30 X 36	7.500									MOUNT ON SIGNAL ARM OR POLE SHEET 11 OF 15				
564	R10-50L(2M)		30 X 36	7.500									MOUNT ON SIGNAL ARM OR POLE SHEET 11 OF 15				
565	R10-50L(2M)		30 X 36	7.500									MOUNT ON SIGNAL ARM OR POLE SHEET 11 OF 15				
566	M1-94S	20 WASHINGTON AVE	96 X 18	12.000									MOUNT ON SIGNAL ARM . SHEET 11 OF 15				
567	R5-1A(2M)		42 X 30	8.750					1				SHEET 11 OF 15				
568	R1-1F(2M)		36 X 36			7.460							MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
569	R1-1F(2M)		36 X 36			7.460							MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
570	R5-1(2M)		36 X 36	9.000					1				SHEET 11 OF 15				
571	R6-2L(2M)		30 X 36	7.500									MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
572	R4-7(2S)		24 X 30	5.000									MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
573	R5-1(2M)		36 X 36	9.000									MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
574	R5-1(2M)		36 X 36	9.000									MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
575	R4-7(2M)		24 X 30	5.000									MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
576	R4-7(2S)		24 X 30	5.000									MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
577	R5-1(2M)		36 X 36	9.000									MOUNT ON SIGNAL POLE. SHEET 11 OF 15				

3

TYPE I & II PERMANENT SIGNING

1033-02-71 IH 94 at STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H [SF]	637.2230 SIGNS TYPE II RELFECTIVE F [SF]	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING [SF]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	638.2102 MOVING SIGNS TYPE II [EA]	634.0618 POSTS WOOD 4" X 6" X 18' [EA]	634.0622 POSTS WOOD 4" X 6" X 22' [EA]	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	637.1220 SIGNS TYPE I REFLECTIVE SH [SF]	637.1230 SIGNS TYPE I REFLECTIVE F [SF]	638.2101 MOVING SIGNS TYPE I [EA]
578	R4-7(2M)		24 X 30	5.000									MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
579	R6-2L(2M)		30 X 36	7.500									MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
580	M1-94H	RED CLOUD DR	96 X 18	12.000									MOUNT ON SIGNAL ARM. SHEET 11 OF 15				
581	R1-1F(2M		36 X 36			7.460							MOUNT OF SIGNAIL POLE.SHEET 11 OF 15				
582	R1-1F(2M		36 X 36			7.460							MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
584	J3-1(2S)		24 X 45	7.500							1		SHEET 11B OF 15				
	M1-6	STH 20	24 X 24														
	M6-4		21 X 21														
585	W3-3(2S)		36 X 36		9.000						1		SHEET 11B OF 15				
586	W3-3(2S)		36 X 36		9.000						1		SHEET 11B OF 15				
587	R6-3(2M)		30 X 24	5.000									MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
588	R1-1F(2M)		36 X 36			7.460							MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
589	R3-8WW(2S)		72 X 30	15.000							2		SHEET 11B OF 15				
590	R5-1(2M)		36 X 36	9.000									MOUNT ON SIGNAL POLE. SHEET 11 OF 15				
591	D1-65	RED CLOUD DR NEXT SIGNAL	96 X 30	20.000					2				SHEET 12 OF 15				
592	D1-65	RED CLOUD DR NEXT SIGNAL	96 X 30	20.000					2				SHEET 12 OF 15				
593	R3-20L(2M)		24 X 36	6.000					1				SHEET 12 OF 15				
594	W3-3(2M)		36 X 36		9.000				1				TEMP FLAGS INCIDENTAL. SHEET 12 OF 15				
595	W3-3(2M)		36 X 36		9.000				1				TEMP FLAGS INCIDENTAL. SHEET 12 OF 15				
596	D1-61	NORTH RED CLOUD WITH ARROW	72 X 36	9.000					2				SHEET 10 OF 15				
597	NOT USED																
598	R3-8WW(2S)		72 X 30	7.500							2		SHEET 11B OF 15				
599	J3-1(2S)		24 X 45	7.500							1		SHEET 11B OF 15				
	M1-6	STH 20	24 X 24														
	M6-4		21 X 21														
600	J3-1(2S)		24 X 45	7.500							1		SHEET 11A OF 15				
	M1-6	STH 20	24 X 24														
	M6-4		21 X 21														
601	R3-53R(2M)		24 X 30	5.000								506	SHEET 9 OF 15				
602	R5-1A(2M)		42 X 30	8.750					1				SHEET 10 OF 15				
603	R5-1(2S)		30 X 30	6.250					1				SHEET 11 OF 15				

TYPE I & II PERMANENT SIGNING

1033-02-71 IH 94 at STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.] x [IN.]	**637.2210** SIGNS TYPE II REFLECTIVE H [SF]	**637.2230** SIGNS TYPE II RELFECTIVE F [SF]	**637.2215** SIGNS TYPE II REFLECTIVE H FOLDING [SF]	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**638.2102** MOVING SIGNS TYPE II [EA]	**634.0618** POSTS WOOD 4" X 6" X 18' [EA]	**634.0622** POSTS WOOD 4" X 6" X 22' [EA]	**634.0816** POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT.] x [FT.]	**637.1220** SIGNS TYPE I REFLECTIVE SH [SF]	**637.1230** SIGNS TYPE I REFLECTIVE F [SF]	**638.2101** MOVING SIGNS TYPE I [EA]
604	R3-1						1	1	1				SHEET 3 OF 15				
604A	M4-4							1				604	MOUNT ABOVE # 604				
605	R5-2(2M)		24 X 24	4.000					1				SHEET 4 OF 15				
605A	M6-1		21 X 21	3.060								605	SHEET 4 OF 15				
606	R5-2(2M)						1	1			1		SHEET 4 OF 15				
606A	NONE	EXCEPT DELIVERIES						1				606	SHEET 4 OF 15				
607	R3-2						1	1	1				SHEET 4 OF 15				
607A	M4-4							1				607	SHEET 4 OF 15				
608	I2-3						2	1	2				SHEET 4 OF 15				
609	D1-1	YORKVILLE (ARROW RIGHT)					2	1	2				SHEET 13 OF 15				
610	R3-2						1	1	1				SHEET 14 OF 15				
610A	M4-4							1				610	SHEET 14 OF 15				
611	R7-1D(2S)		18 X 24	3.000					1				SHEET 14 OF 15				
612	R3-7R(2M)		30 X 30	6.250								33	SHEET 4 OF 15				
613	R3-7R(2M)		30 X 30	6.250					1				SHEET 4 OF 15				
614	W3-3						1	1	1				SHEET 13A OF 15				
615	J2-3						1	1	2				SHEET 13A OF 15				
616	NONE	CRASH INVESTIGATION SITE					1	1	1				SHEET 13A OF 15				
617	E5-1A						2	1	2				SHEET 13A OF 15				
617A	W5-54							1				617					
617B	W5-54							1				617					
UNDISTRIBUTED				--	--	--	--	3	5	--	--	--	--		--	20.00	1
TOTALS				3005.21 *	268.5 *	353.32 *	38 *	44 *	323 *	22	20	--	--		831.500	20.000	1

* ADDITIONAL QTYS SHOWN ELSE

OVERHEAD SIGN SUPPORTS - MISC QUANTITIES 1033-02-71 IH 94 at STH 20

LOCATION	Category Code 4000 OVERHEAD SIGN SUPPORT STRUCTURE S-51-227 L.S. 641.8100.0001	Category code 4020 OVERHEAD SIGN SUPPORT STRUCTURE S-51-229 L.S. 641.8100.0003	Category Code 4010 OVERHEAD SIGN SUPPORT STRUCTURE S-51-228 L.S. 641.8100.0002	Category Code 4030 OVERHEAD SIGN SUPPORT STRUCTURE S-51-230 L.S. 641.8100.0005	Category Code 4060 OVERHEAD SIGN SUPPORT STRUCTURE S-51-259 L.S. 641.8100.0004	Category Code 4040 OVERHEAD SIGN SUPPORT STRUCTURE S-51-249 L.S. 641.8100.0006	Category Code 4050 OVERHEAD SIGN SUPPORT STRUCTURE S-51-250 L.S. 641.8100.0007
STH 20 EB at IH 41 South Ramp	1						
STH 20 WB at West Frontage Road		1					
STH 20 EB at Look Ahead Lane			1				
STH 20 WB at IH 41 NB on Ramp				1			
STH 20 WB AT EAST FRONTAGE RD					1		
SE RAMP IH 41 NB EXIT RAMP TO STH 20						1	
IH 41 SB EXIT RAMP TO STH 20 RAMP NW							1
TOTAL	1	1	1	1	1	1	1

NON-PARTICIPATING QTYS AS FOLLOWS:

OVERHEAD SIGN SUPPORTS - MISC QUANTITIES 1033-02-71

LOCATION	Category Code 6010 OVERHEAD SIGN SUPPORT STRUCTURE S-51-260 L.S. 641.8100.0008	Category Code 6020 OVERHEAD SIGN SUPPORT STRUCTURE S-51-261 L.S. 641.8100.0009
STH 20 EB AT GALAXY DRIVE	1	
STH 20 EB AT RED CLOUD DRIVE		1
TOTAL	1	1

TYPE II PERMANENT SIGNING

1033-02-71 STH 20

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	**637.2210** SIGNS TYPE II REFLECTIVE H [SF]	**637.2230** SIGNS TYPE II RELFECTIVE F [SF]	**637.2215** SIGNS TYPE II REFLECTIVE H FOLDING [SF]	**638.2602** REMOVING SIGNS TYPE II EACH	**638.3000** REMOVING SMALL SIGN SUPPORTS EACH	**638.2102** MOVING SIGNS TYPE II [EA]	**634.0618** POSTS WOOD 4" X 6" X 18' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
801	R5-1(2M)		36	X	36	9.000						1		
802	R1-1F(3)		36	X	36			7.460	1.000					MOUNT ON SIGNAL POLE
803	R1-1F(3)		36	X	36			7.460						MOUNT ON SIGNAL POLE
804	M1-94S	20 - WASHINGTON AVE	X		X	TBD								MOUNT ON SIGNAL ARM
805	R4-7(2S)		24	X	30	5.000			1.000					
806	R1-1F(3)		36	x	36			7.460	1.000					MOUNT ON SIGNAL POLE
807	R6-2L(2S)		24	X	30	5.000								
808	R1-1F(3)		36	X	36			7.460	1.000					MOUNT ON SIGNAL POLE
809	R10-50L(2M)		30	X	36	7.500								MOUNT ON SIGNAL ARM
810	R1-1F(3)		36	X	36			7.460						
811	R5-1(2S)		30	X	30	6.250						1		
812	M1-94S	H- RENAISSANCE BLVD	X		X	TBD								ON SIGNAL ARM
813	R6-2L(2M)		30	X	36	7.500								MOUNT ON SIGNAL POLE
814	R10-11F								1.000	1.000				
815	R1-1F(3)		36	X	36			7.460	1.000					MOUNT ON SIGNAL POLE
816	R4-7(2M)		24	X	30	5.000			1.000					MOUNT ON SIGNAL POLE
817	R10-50L(2M)		30	X	36	7.500								ON SIGNAL ARM
818	R3-4(2M)		36	X	36	9.000			1.000					MOUNT ON LIGHT POLE
819	R1-1F(3)		36	X	36			7.460	1.000					MOUNT ON SIGNAL POLE
820	R1-1F(3)		36	X	36			7.460	1.000					MOUNT ON SIGNAL POLE
821	R5-1(2M)		36	X	36	9.000						1		
822	R1-2(2M)		48	X	42	7.000			1.000	1.000		1		
823	M1-94S	20 WASHINGTON AVE	X		X	TBD								MOUNT ON SIGNAL ARM
824	R4-7(2S)		24	X	30	5.000			1.000					MOUNT ON SIGNAL POLE
825	R10-50L(2M)		30	X	36	7.500								MOUNT ON SIGNAL ARM
826	R5-1(2S)		30	X	30	6.250						1		
827	R1-2(2M)		48	X	42	7.000			1.000	1.000		1		
828	R6-2L(2M)		30	X	36	7.500								MOUNT ON SIGNAL POLE
829	M1-94S	H - RENAISSANCE BLVD	X	X	X	TBD								MOUNT ON SIGNAL ARM
830	R4-7(2M)		24	X	30	5.000			1.000					MOUNT ON SIGNAL POLE
831	R10-50L(2M)		30	X	36	7.500								MOUNT ON SIGNAL POLE
832	R1-1F(3)		36	X	36			7.460	1.000					MOUNT ON SIGNAL POLE
833	R1-1F(3)		36	X	36			7.460	1.000					MOUNT ON SIGNAL POLE
834	R6-2L(2S)		24	X	30	5.000								MOUNT ON SIGNAL POLE
UNDISTRIBUTED						--	20.000	--			3		--	--
TOTALS						128.5*	20*	74.6*	16*	3*	3*	6*	--	--

* additional qtys shown elsewhere

SHEET: 1 OF 1

PROJECT NO: 1033-02-71/76	HWY: STH 20 at Renaissance Blvd	COUNTY: RACINE	MISCELLANEOUS QUANTITIES – PERMANENT SIGNING	SHEET:	E

CATEGORY 1100
LIGHTING REMOVAL ITEMS

204.0195 REMOVING CONCRETE BASES
653.0905 REMOVING PULL BOXES
SPV.0060.1000 DISTRIBUTION CENTER SALVAGED

SYSTEM	LOCATION	ITEM	204.0195 REMOVING CONCRETE BASES EACH	653.0905 REMOVING PULL BOXES EACH	SPV.0060.1000 DISTRIBUTION CENTER SALVAGED EACH
RZ	295+15, 80' LT	LPB101	--	1	--
RZ	295+40, 70' RT	LBP102	--	1	--
RZ	294+95, 80' LT	HL-51-RZ	1	--	1
	TOTAL (1100)		**1**	**2**	**1**

CATEGORY 1100
LIGHTING WIRE QUANTITIES
240/480 VAC

655.0620 ELECTRICAL WIRE LIGHTING 8 AWG
655.0625 ELECTRICAL WIRE LIGHTING 6 AWG

SYSTEM	NETWORK	LOCATION TO LOCATION	DISTANCE	655.0620 8 AWG LF	655.0625 6 AWG LF
HL-51-RZ	A/B/N/G	HL-51-RZ TO LPB1 TO LPB13 TO LPB14 TO INTERCEPT EXISTING	270	1080	--
HL-51-RZ	C/N/G	HL-51-RZ TO LPB1 TO LPB2 TO LPB3 TO POLE CRZ1	380	380	760
HL-51-RZ	C/N/G	POLE CRZ1 TO POLE CRZ2	200	200	400
HL-51-RZ	C/N/G	POLE CRZ2 TO POLE CRZ3	530	530	1060
HL-51-RZ	C/N/G	POLE CRZ3 TO LPB4 TO LPB5 TO POLE CRZ4	200	600	--
HL-51-RZ	C/N/G	POLE CRZ4 TO LPB6 TO POLE CRZ5/CRZ6	270	810	--
HL-51-RZ	C/N/G	POLE CRZ5/CRZ6 TO POLE CRZ7/CRZ8	150	450	--
HL-51-RZ	D/N/G	HL-51-RZ TO LPB1 TO LPB13 TO LPB14 TO LPB15 TO LPB16 TO POLE DRZ1	480	1440	--
HL-51-RZ	D/N/G	POLE DRZ1 TO LPB17 TO POLE DRZ2/DRZ3	260	780	--
HL-51-RZ	D/N/G	POLE DRZ2/DRZ3 TO POLE DRZ4/DRZ5	110	330	--
HL-51-RZ	D/N/G	POLE DRZ4/DRZ5 TO LPB18 TO POLE DRZ6	210	630	--
HL-51-RZ	D/N/G	POLE DRZ6 TO LPB19 TO LPB20 TO DRZ7	200	600	--
HL-51-RZ	E/N/G	HL-51-RZ TO LPB1 TO LPB13 TO LPB12 TO LPB11 TO POLE ERZ1	380	380	760
HL-51-RZ	E/N/G	POLE ERZ1 TO LPB10 TO POLE ERZ2/ERZ3	200	200	400
HL-51-RZ	E/N/G	POLE ERZ2/ERZ3 TO POLE ERZ4/ERZ5	135	135	270
HL-51-RZ	E/N/G	POLE ERZ4/ERZ5 TO POLE ERZ6/ERZ7	130	390	--
HL-51-RZ	E/N/G	POLER ERZ6/ERZ7 TO LPB9 TO POLE ERZ8	220	660	--
HL-51-RZ	E/N/G	POLE ERZ8 TO LPB8 TO LPB7 TO POLE ERZ9	195	585	--
HL-51-RZ	F/N/G	Hl-51-RZ TO LPB27 TO LPB26 TO LPB25 TO LPB24 TO POLE FRZ1	480	1440	--
HL-51-RZ	F/N/G	POLE FRZ1 TO POLE FRZ2	330	990	--
HL-51-RZ	F/N/G	POLE FRZ2 TO LPB23 TO LPB22 TO POLE FRZ3	190	570	--
HL-51-RZ	F/N/G	POLE FRZ3 TO LPB21 TO POLE FRZ4/FRZ5	235	705	--
		TOTAL (1100)		**13,885**	**3,650**

CATEGORY 1100
LIGHTING BRANCH CIRCUIT CONDUIT

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH

SYSTEM	LOCATION TO LOCATION	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH
		LF	
HL-51-RZ	HL-51-RZ TO LPB1	--	10
HL-51-RZ	LPB1 TO LPB2	320	--
HL-51-RZ	LPB2 TO LPB3	--	50
HL-51-RZ	LPB3 TO LPB4	760	--
HL-51-RZ	LPB4 TO LPB5	--	120
HL-51-RZ	LPB5 TO LPB6	70	--
HL-51-RZ	LPB6 TO POLE CRZ5/CRZ6	--	160
HL-51-RZ	POLE CRZ5/CRZ6 TO SUBOUT EAST	175	--
HL-51-RZ	LPB1 TO LPB13	--	160
HL-51-RZ	LPB13 TO LPB12	110	--
HL-51-RZ	LPB12 TO LPB11	--	90
HL-51-RZ	LPB11 TO LPB10	120	--
HL-51-RZ	LPB10 TO POLE ERZ2/ERZ3	--	100
HL-51-RZ	LPB10 TO LPB9	260	--
HL-51-RZ	POLE ERZ2/ERZ3 TO POLE ERZ6/ERZ7	235	--
HL-51-RZ	POLE ERZ6/ERZ7 TO LPB9	--	100
HL-51-RZ	LPB9 TO LPB8	160	--
HL-51-RZ	LPB8 TO LPB7	--	115
HL-51-RZ	LPB7 TO STUB OUT EAST	65	--
HL-51-RZ	LPB13 TO LPB15	220	--
HL-51-RZ	LPB15 TO LPB16	--	50
HL-51-RZ	LPB16 TO LPB17	210	--
HL-51-RZ	LPB17 TO POLE DRZ2/DRZ3	--	100
HL-51-RZ	POLE DRZ2/DRZ3 TO POLE DRZ4/DRZ5	110	--
HL-51-RZ	POLE DRZ4/DRZ5 TO LPB18	--	90
HL-51-RZ	LPB17 TO LPB18	110	--
HL-51-RZ	LPB18 TO LPB19	150	--
HL-51-RZ	LPB19 TO LPB20	--	120
HL-51-RZ	LPB2O TO STUBOUT WEST	75	--
HL-51-RZ	HL-51-RZ TO LPB27	--	10
HL-51-RZ	LPB26 TO LPB25	200	--
HL-51-RZ	LPB25 TO LPB24	--	70
HL-51-RZ	LPB24 TO LPB23	390	--
HL-51-RZ	LPB23 TO LPB22	--	110
HL-51-RZ	LPB22 TO LPB21	210	--
HL-51-RZ	LPB21 TO POLE FRZ4/FRZ5	--	55
HL-51-RZ	POLE FRZ4/ FRZ5 TO STUBOUT EAST	45	--
	TOTAL (1100)	**3,995**	**1,510**

CATEGORY 1100
LIGHTING PULL BOX QUANTITIES

653.0154 PULL BOXES NON-CONDUCTIVE 24X36-INCH
653.0164 PULL BOXES NON-CONDUCTIVE 24X48-INCH

SYSTEM	LABEL	LOCATION	653.0154 PULL BOXES NON - CONDUCTIVE 24X36-INCH	653.0164 PULL BOXES NON - CONDUCTIVE 24X48-INCH
			EACH	EACH
HL-51-RZ	LPB1	294+99.04 LEFT	1	--
HL-51-RZ	LPB2	295+78.52 LEFT	--	1
HL-51-RZ	LPB3	296+24.87 LEFT	--	1
HL-51-RZ	LPB4	302+27.10 LEFT	--	1
HL-51-RZ	LPB5	303+51.49 LEFT	--	1
HL-51-RZ	LPB6	304+87.93 C.I.M.	1	--
HL-51-RZ	LPB7	303+48.17 RIGHT	1	--
HL-51-RZ	LPB8	302+28.46 RIGHT	1	--
HL-51-RZ	LPB9	300+69.19 RIGHT	1	--
HL-51-RZ	LPB10	297+99.43 RIGHT	1	--
HL-51-RZ	LPB11	297+8.88 RIGHT	1	--
HL-51-RZ	LPB12	296+24.24 RIGHT	--	1
HL-51-RZ	LPB13	295+32.45 RIGHT	1	--
HL-51-RZ	LPB14	294+36.66 RIGHT	1	--
HL-51-RZ	LPB15	293+15.61 RIGHT	--	1
HL-51-RZ	LPB16	292+65.98 RIGHT	1	--
HL-51-RZ	LPB17	290+61.24 RIGHT	1	--
HL-51-RZ	LPB18	289+51.13 RIGHT	1	--
HL-51-RZ	LPB19	288+17.66 RIGHT	1	--
HL-51-RZ	LPB20	286+98.21 RIGHT	1	--
HL-51-RZ	LPB21	285+11.45, LEFT	1	--
HL-51-RZ	LPB22	287+6.05 LEFT	--	1
HL-51-RZ	LPB23	288+11.21 LEFT	--	1
HL-51-RZ	LPB24	290+88.86 LEFT	--	1
HL-51-RZ	LPB25	291+60.19 LEFT	--	1
HL-51-RZ	LPB26	292+69.46 LEFT	--	1
HL-51-RZ	LPB28	294+75.98 LEFT	--	1
TOTAL (1100)			**15**	**12**

CATEGORY 1100
LIGHT POLE QUANTITIES 6-INCH ARM CLAMPS
240/480 VAC

654.0107 CONCRETE BASES TYPE 7
655.0610 ELECTRICAL WIRE LIGHTING 12 AWG
657.0330 POLES TYPE 7
657.0630 LUMINAIRE ARMS SINGLE MEMBER 6-INCH CLAMP 8-FT
657.0635 LUMINAIRE ARMS SINGLE MEMBER 6-INCH CLAMP 10-FT
659.1125 LUMINAIRES UTILITY LED C

SYSTEM	STATION	OFFSET	ITEM	654.107 CONCRETE BASES TYPE 7	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG	657.0330 POLES TYPE 7	657.0630 LUMINAIRE ARMS SINGLE MEMBER 6-INCH CLAMP 8-FT	657.0635 LUMINAIRE ARMS SINGLE MEMBER 6-INCH CLAMP 10-FT	659.1125 LUMINAIRES UTILITY LED C
				EACH	L.F.	EACH	EACH	EACH	EACH
HL-51-RZ	296+26.33	329.76' LT	CRZ1	1	150	1	1	--	1
HL-51-RZ	296+94.27	122.19' LT	CRZ2	1	150	1	1	--	1
HL-51-RZ	302+13.02	132.18' LT	CRZ3	1	150	1	1	--	1
HL-51-RZ	303+79.16	118.15' LT	CRZ4	1	150	1	1	--	1
HL-51-RZ	305+87.93	C.I.M.	CRZ5/CRZ6	1	312	1	--	2	2
HL-51-RZ	306+85.01	C.I.M.	CRZ7/CRZA	1	312	1	--	2	2
HL-51-RZ	292+33.33	111.59' RT	DRZ1	1	150	1	1	--	1
HL-51-RZ	290+58.76	C.I.M.	DRZ2/DRZ3	1	312	1	--	2	2
HL-51-RZ	289.49.67	C.I.M.	DRZ4/DRZ5	1	312	1	--	2	2
HL-51-RZ	288+27.03	123.24 RT	DRZ6	1	150	1	1	--	1
HL-51-RZ	286+72.8	98.35' RT	DRZ7	1	150	1	1	--	1
HL-51-RZ	297+8.88	164.02' RT	ERZ1	1	150	1	1	--	1
HL-51-RZ	297+98.28	C.I.M.	ERZ2/ERZ3	1	312	1	--	2	2
HL-51-RZ	299+39.03	C.I.M.	ERZ4/ERZ5	1	312	1	--	2	2
HL-51-RZ	300+68.85	C.I.M.	ERZ6/ERZ7	1	312	1	--	2	2
HL-51-RZ	302+2.84	103.71 RT	ERZ8	1	150	1	1	--	1
HL-51-RZ	303+65.35	108.74 RT	ERZ9	1	150	1	1	--	1
HL-51-RZ	290+94.94	237.19 LT	FRZ1	1	150	1	1	--	1
HL-51-RZ	288+38.76	104.85 LT	FRZ2	1	150	1	1	--	1
HL-51-RZ	286+83.69	103.26' LT	FRZ3	1	150	1	1	--	1
HL-51-RZ	285+39.17	C.I.M.	FRZ4/FRZ5	1	312	1	--	2	2
TOTAL (1100)				**21**	**4,446**	**21**	**13**	**16**	**29**

FILE NAME : N:\SPO\Operations\Lighting\Light Projects\qtys\19 qty\1033-02-71 PLOT DATE : 22 May 2019 PLOT BY : DOTEJP PLOT NAME : 030201_mq_ltg PLOT SCALE : 1:1

3

3

LIGHTING - CONTROL AND SERVICES
240/480 VAC 3-WIRE

654.0230 CONCRETE CONTROL CABINET BASES TYPE L30
655.0640 ELECTRICAL WIRE LIGHTING 1 AWG
656.0400.0001 ELECTRICAL SERVICE MAIN LUGS ONLY METER PEDESTAL (HL-51-RZ)

CATEGORY 1100	DESCRIPTION	LOCATION	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30	655.0640 ELECTRICAL WIRE LIGHTING 1 AWG	656.0400.0001 ELECTRICAL SERVICES MAIN LUGS ONLY METER PEDESTAL (HL-51-RZ)	COMMENTS
			EACH	LF	LS	
1100	HL-51-RZ	NW CORNER I-94 NB RAMPS AND WIS-20	1	18	1	INSTALL SALVAGED CABINET (HL-51-RZ)
		SUBTOTAL	1	18	1	
		TOTALS (1100)	**1**	**18**	**1**	

LIGHTING - LIGHTING SYSTEMS

SPV.0105.1000 LIGHTING SYSTEM INTEGRATOR
SPV.0105.1001 LIGHTING SYSTEM SURVEY

CATEGORY	DESCRIPTION	LOCATION	SPV.0105.1000 LIGHTING SYSTEM INTEGRATOR	SPV.0105.1001 LIGHTING SYSTEM SURVEY	COMMENTS
			LS	LS	
1100	PROJECT (1033-02-71)	I-94	1	1	SYSTEM HL-51-RZ
		SUBTOTAL	1	1	
1100		**TOTALS**	**1**	**1**	

3

3

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8 PHASE
1	TRAFFIC SIGNAL CABINET
2	POLES, TYPE 10
1	POLES, TYPE 9 SPECIAL
1	POLES, TYPE 10 SPECIAL
1	POLES, TYPE 12
2	MONOTUBE ARMS, 20-FT
1	MONOTUBE ARMS, 35-FT, TYPE 9/10 SPEC POLE
1	MONOTUBE ARMS, 45-FT, TYPE 9/10 SPEC POLE
1	MONOTUBE ARMS, 55-FT
6	LUMINAIRE ARMS, STEEL, 15-FT
4	EVP DETECTOR HEADS
4	EVP CONFIRMATION LIGHT

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
SB11	1
SB12	1
SB13	1
SB14	1
TOTAL	14 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

STATE FURNISHED FOR INFORMATION ONLY

SIGNAL BASE NO.	POLES TYPE 10 EACH	POLES TYPE 9 SPECIAL EACH	POLES TYPE 10 SPECIAL EACH	POLES TYPE 12 EACH	MONOTUBE ARMS 20-FT EACH	MONOTUBE ARMS 35-FT EACH	MONOTUBE ARMS 45-FT EACH	MONOTUBE ARMS 55-FT EACH	LUMINAIRE ARMS STEEL, 15-FT EACH	EVP DETECTOR HEADS EACH	EVP CONFIRMATION LIGHT EACH
SB3	--	--	1	--	--	--	1	--	2	1	1
SB5	--	--	--	--	--	--	--	--	--	1	1
SB6	--	--	--	1	--	--	--	1	--	--	--
SB8	1	--	--	--	1	--	--	--	2	--	--
SB9	--	1	--	--	--	1	--	--	--	1	1
SB11	1	--	--	--	1	--	--	--	2	1	1
TOTAL	2	1	1	1	2	1	1	1	6	4	4

3

3

REMOVE TRAFFIC SIGNALS

LOCATION	204.9105.S.3001 REMOVING TRAFFIC SIGNALS L.S.
STH 20 & W FRONTAGE RD	1
TOTAL	1

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	204.9105.S.3005 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE L.S.
STH 20 & W FRONTAGE RD	1
TOTAL	1

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.
CB1	PB1	--	57
PB1	PB2	--	55
PB2	SB1	5	--
PB2	SB2	5	--
PB1	PB20	176	--
PB20	PB52	64	--
PB1	PB3	--	144
PB3	PB4	--	72
PB4	SB3	--	8
PB4	PB5	--	190
PB5	PB6	--	92
PB6	PB7	--	52
PB7	SB4	6	--
PB6	PB21	193	--
PB6	PB8	--	136
PB8	SB5	10	--
PB8	PB9	--	106
PB9	PB10	--	64
PB10	SB6	--	8
PB10	PB11	--	46
PB11	SB7	5	--
PB10	PB12	--	70
PB12	PB22	--	176
PB22	PB23	150	--
PB12	PB13	--	156
PB13	PB24	24	--
PB13	PB14	--	58
PB14	SB8	--	21
PB14	SB9	--	18
PB14	PB15	--	136
PB15	PB25	186	--
PB15	PB16	--	65
PB16	SB10	5	--
PB15	PB17	--	114
PB17	PB26	220	--
PB17	PB18	--	130
PB18	SB11	--	10
PB18	PB19	--	114
PB19	CB1	--	75
	TOTAL	1049 *	2173 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

STH 20 & W FRONTAGE RD
RACINE COUNTY
CATEGORY 1500
S51-0728

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB24	286+74.1, 4.1'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	80	339	240
12	PB24	286+98.8, 15.6'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	86	339	258
13	PB24	287+00.7, 3.3'LT	6'x14'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	339	272
21	PB51	291+71.4, 54.0'LT	6'x8'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	438	450
22	PB51	291+71.4, 42.0'LT	6'x8'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	66	438	330
23	PB20	290+23.4, 54.0'LT	6'x6'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	209	392
24	PB20	290+23.4, 42.0'LT	6'x6'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	122	209	488
31	PB8	2863+83.1, 15.6'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	350	210
32	PB8	2864+11.1, 16.0'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	350	216
41	PB26	4867+68.5, 23.7'LT	6'x6'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	58	381	290
42	PB16	4865+26.4, 33.2'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	102	283	306
43	PB16	4864+98.5, 34.5'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	92	283	276
51	PB3	288+50.5, 16.0'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	105	210
52	PB3	288+22.5, 16.0'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	105	210
53	PB4	288+50.5, 4.0'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	141	216
54	PB4	288+22.5, 4.0'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	141	216
61	PB23	283+29.0, 55.0'RT	6'x14'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	719	460
62	PB23	283+29.0, 43.0'RT	6'x14'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	116	719	580
63	PB23	283+29.0, 31.0'RT	6'x14'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	140	719	700
64	PB22	284+79.0, 55.0'RT	6'x10'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	569	420
65	PB22	284+79.0, 43.0'RT	6'x10'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	108	569	540
66	PB22	284+79.0, 31.0'RT	6'x10'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	132	569	660
71	PB18	4865+42.7, 16.0'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	96	210
72	PB18	4865+14.7, 16.0'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	96	216
81	PB21	2861+92.1, 6.0'RT	6'x8'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	475	330
82	PB7	2864+19.0, 6.0'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	102	334	306
83	PB7	2864+47.0, 6.0'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	90	334	270
84	PB5	2864+33.0, 55.7'RT	6'x30'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	104	236	312
85	PB6	2864+17.8, 28.3'RT	6'x30'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	96	282	288
86	PB7	2864+40.5, 44.9'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	80	335	240
S1	PB25	284+58.4, 54.0'LT	6'x6'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	404	340
S2	PB25	284+58.4, 42.0'LT	6'x6'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	404	460
					TOTAL	2566 *	10293 *	10142 *

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

STH 20 & W FRONTAGE RD
RACINE COUNTY
CATEGORY 1500
S51-0728

PULL BOXES

PULL BOX NO.	LOCATION**	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB1	4865+17.7, 75.3'RT	--	1
PB2	4864+95.7, 25.1'RT	--	1
PB3	288+46.5, 27.0'LT	--	1
PB4	288+46.6, 8.2'RT	--	1
PB5	2864+21.2, 70.7'RT	--	1
PB6	2863+87.2, 40.7'RT	--	1
PB7	2864+37.9, 24.7'RT	--	1
PB8	2863+85.7, 26.6'LT	--	1
PB9	2863+84.4, 78.7'LT	--	1
PB10	2864+10.5, 96.0'LT	--	1
PB11	2864+46.4, 68.4'LT	--	1
PB12	286+55.5, 89.2'RT	--	1
PB13	286+55.3, 12.0'RT	--	1
PB14	286+55.3, 16.7'LT	--	1
PB15	286+55.1, 84.4'LT	--	1
PB16	4865+07.1, 51.9'LT	--	1
PB17	4865+42.3, 69.6'LT	--	1
PB18	4865+40.4, 5.0'LT	--	1
PB19	4865+38.7, 51.2'RT	--	1
PB20	290+21.0, 93.5'LT	1	--
PB21	2861+92.1, 31.7'RT	1	--
PB22	284+80.6, 83.5'RT	1	--
PB23	283+30.5, 83.5'RT	1	--
PB24	286+78.8, 12.0'RT	1	--
PB25	284+69.8, 78.3'LT	1	--
PB26	4867+69.7, 43.7'LT	1	--
	TOTAL	7 *	19 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVE PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
PB15	1
PB16	1
PB17	1
PB18	1
PB19	1
TOTAL	18 *

* ADDITIONALQUANTITY SHOWN ELSEWHERE ON PLAN

CONCRETE BASES

SIGNAL BASE NO.	LOCATION**	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	SPV.0060.3017 CONCRETE BASES TYPE 10 SPECIAL EACH	654.0113 CONCRETE BASES TYPE 13 EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	4865+36.8, 75.3'RT	--	--	--	--	--	1
SB1	4864+99.3, 23.5'RT	1	--	--	--	--	--
SB2	4864+95.0, 29.0'RT	1	--	--	--	--	--
SB3	288+39.6, 11.5'RT	--	--	--	1	--	--
SB4	2864+43.0, 25.0'RT	1	--	--	--	--	--
SB5	2863+95.5, 26.7'LT	--	1	--	--	--	--
SB6	2864+07.0, 89.0'LT	--	--	--	--	1	--
SB7	2864+49.0, 72.8'LT	1	--	--	--	--	--
SB8	286+75.7, 21.1'LT	--	--	1	--	--	--
SB9	286+71.3, 24.1'LT	--	--	--	1	--	--
SB10	4865+02.2, 52.3'LT	1	--	--	--	--	--
SB11	4865+30.4, 5.0'LT	--	--	1	--	--	--
	TOTAL	5 *	1 *	2 *	2 *	1 *	1 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

3

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED L.F.
CB1	SB1	122	--	--	--
CB1	SB2	--	122	--	--
CB1	SB3	--	--	194	--
CB1	SB4	--	433	--	--
CB1	SB5	--	453	--	--
CB1	SB6	561	--	--	--
CB1	SB7	620	--	--	--
CB1	SB8	--	384	--	--
CB1	SB9	381	--	--	--
CB1	SB10	--	365	--	--
CB1	SB11	--	--	135	--
CB1	SB3	--	--	--	194
SB3	SB5	--	--	--	299
CB1	SB11	--	--	--	135
SB11	SB8	--	--	--	293
	TOTAL	1684 *	1757 *	329 *	921 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	122
SB1	SB2	34
SB2	SB3	248
SB3	SB4	279
SB4	SB5	192
SB5	SB6	159
SB6	SB7	99
SB7	SB8	302
SB8	SB9	63
SB9	SB10	212
SB10	SB11	274
SB11	CB1	135
PB1	CB1	42
PB2	SB1	25
PB3	SB3	80
PB4	SB3	28
PB5	SB3	139
PB6	SB4	95
PB7	SB4	26
PB8	SB5	30
PB9	SB6	76
PB10	SB6	28
PB11	SB7	25
PB12	SB6	79
PB13	SB9	83
PB14	SB9	38
PB15	SB10	106
PB16	SB10	25
PB17	SB11	111
PB18	SB11	30
PB19	CB1	48
	TOTAL	3233 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

3

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB1	HEAD 16	19	--
SB2	HEAD 6	--	22
SB2	HEAD 8	19	--
SB3	HEAD 2	69	--
SB3	HEAD 3	69	--
SB3	HEAD 4	69	--
SB3	HEAD 7	--	22
SB3	HEAD 11	19	--
SB4	HEAD 14	19	--
SB4	HEAD 24	--	22
SB5	HEAD 17	--	22
SB5	HEAD 25	--	22
SB6	HEAD 21	76	--
SB6	HEAD 22	76	--
SB7	HEAD 1	19	--
SB8	HEAD 5	--	22
SB8	HEAD 12	42	--
SB8	HEAD 13	42	--
SB9	HEAD 9	55	--
SB9	HEAD 10	55	--
SB10	HEAD 18	--	22
SB10	HEAD 20	19	--
SB11	HEAD 15	39	--
SB11	HEAD 19	--	22
SB11	HEAD 23	--	22
	TOTAL	706 *	198 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB3	LUMIN. (2)	288
SB5	LUMIN. (2)	234
SB8	LUMIN. (2)	288
SB11	LUMIN. (2)	234
	TOTAL	1044 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG L.F.	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB9 (HEAD A)	446	446
CB1	SB3 (HEAD B)	269	269
CB1	SB11 (HEAD C)	185	185
CB1	SB5 (HEAD D)	493	493
	TOTAL	1393 *	1393 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** ITEM 655.0210 TO BE USED WITH STATE SUPPLIED EVP CONFIRMATION LIGHTS

ELECTRICAL SERVICE METER BREAKER PEDESTAL

LOCATION**	656.0200.3001 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.
STH 20 & W FRONTAGE RD	1
TOTAL	1

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

3

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0310 POLES TYPE 3 EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	1	--	--	1	--	--	--
SB2	1	--	--	--	1	--	--
SB4	1	--	--	--	1	--	--
SB5	--	1	1	--	--	2	2
SB7	1	--	--	1	--	--	--
SB10	1	--	--	--	1	--	--
TOTAL	5 *	1 *	1 *	2 *	3 *	2 *	2 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

POLES (STATE FURNISHED)

SIGNAL BASE NO.	659.1125 LUMINAIRES UTILITY LED C EACH	SPV.0060.3004 INSTALL POLES TYPE 10 EACH	SPV.0060.3005 INSTALL POLES TYPE 9 SPECIAL EACH	SPV.0060.3006 INSTALL POLES TYPE 10 SPECIAL EACH	SPV.0060.3007 INSTALL POLES TYPE 12 EACH	SPV.0060.3009 INSTALL MONOTUBE ARMS 20-FT EACH	SPV.0060.3012 INSTALL MONOTUBE ARMS 35-FT TYPE 9/10 SPEC POLE EACH	SPV.0060.3013 INSTALL MONOTUBE ARMS 45-FT TYPE 9/10 SPEC POLE EACH	SPV.0060.3015 INSTALL MONOTUBE ARMS 55-FT EACH	SPV.0060.3016 INSTALL LUMINAIRE ARMS STEEL 15-FT EACH
SB3	2	--	--	1	--	--	--	1	--	2
SB6	--	--	--	--	1	--	--	--	1	--
SB8	2	1	--	--	--	1	--	--	--	2
SB9	--	--	1	--	--	--	1	--	--	--
SB11	2	1	--	--	--	1	--	--	--	2
TOTAL	6 *	2 *	1 *	1 *	1 *	2 *	1 *	1 *	1 *	6 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

STH 20 & W FRONTAGE RD
RACINE COUNTY
CATEGORY 1500
S51-0728

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH
1	SB7	1	--
2	SB3	1	--
3	SB3	1	--
4	SB3	1	--
5	SB8	--	1
6	SB2	--	1
7	SB3	--	1
8	SB2	1	--
9	SB9	1	--
10	SB9	1	--
11	SB3	1	--
12	SB8	1	--
13	SB8	1	--
14	SB4	1	--
15	SB11	1	--
16	SB1	1	--
17	SB5	--	1
18	SB10	--	1
19	SB11	--	1
20	SB10	1	--
21	SB6	1	--
22	SB6	1	--
23	SB11	--	1
24	SB4	--	1
25	SB5	--	1
	TOTAL	16 *	9 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.3001 SIGNAL MOUNTING HARDWARE L.S.
STH 20 & W FRONTAGE RD	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.3001 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
STH 20 & W FRONTAGE RD	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET

LOCATION	SPV.0105.3001 TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET L.S.
STH 20 & W FRONTAGE RD	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS

LOCATION	SPV.0105.3006 TRNSPT TRAFFIC SIGNAL & INTERSECTION LIGHTING MATERIALS L.S.
STH 20 & W FRONTAGE RD	1
TOTAL	1

EVP DETECTOR HEAD INSTALLATION

LOCATION	SPV.0105.3011 TRNSPT & INSTALL STATE FURN EVP DETECTOR HEADS & CONFIRMATION LIGHTS L.S.
STH 20 & W FRONTAGE RD	1
TOTAL	1

3

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8 PHASE
2	TRAFFIC SIGNAL CABINET
1	POLES, TYPE 10
2	POLES, TYPE 10 SPECIAL
3	POLES, TYPE 13
1	MONOTUBE ARMS, 30-FT
2	MONOTUBE ARMS, 45-FT, TYPE 9/10 SPEC POLE
1	MONOTUBE ARMS, 50-FT
2	MONOTUBE ARMS, 55-FT
9	LUMINAIRE ARMS, STEEL, 15-FT
4	EVP DETECTOR HEADS
4	EVP CONFIRMATION LIGHT

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB17	1
SB18	1
SB19	1
SB20	1
SB21	1
SB22	1
SB23	1
SB24	1
SB25	1
SB27	1
SB28	1
SB30	1
SB32	1
SB33	1
SB34	1
SB35	1
TOTAL	16 *

* ADDITIONAL QUANTITIY SHOWN ELSEWHERE ON PLAN

STATE FURNISHED FOR INFORMATION ONLY

SIGNAL BASE NO.	POLES TYPE 10 EACH	POLES TYPE 10 SPECIAL EACH	POLES TYPE 13 EACH	MONOTUBE ARMS 30-FT EACH	MONOTUBE ARMS 45-FT TYPE 9/10 SPEC POLES EACH	MONOTUBE ARMS 50-FT EACH	MONOTUBE ARMS 55-FT EACH	LUMINAIRE ARMS STEEL, 15-FT EACH	EVP DETECTOR HEADS EACH	EVP CONFIRMATION LIGHT EACH
SB1	1	--	--	1	--	--	--	1	--	--
SB6	--	--	1	--	--	1	--	2	--	--
SB9	--	--	--	--	--	--	--	--	1	1
SB12	--	--	1	--	--	--	1	2	1	1
SB22	--	--	1	--	--	--	1	1	1	1
SB23	--	1	--	--	1	--	--	1	--	--
SB27	--	1	--	--	1	--	--	2	--	--
SB28	--	--	--	--	--	--	--	--	1	1
TOTAL	1	2	3	1	2	1	2	9	4	4

IH-94 RAMPS & STH 20
RACINE COUNTY
CATEGORY 1500
S51-0324

REMOVE TRAFFIC SIGNALS

LOCATION	204.9105.S.3002 REMOVING TRAFFIC SIGNALS L.S.
IH-94 RAMPS & STH 20	1
TOTAL	1

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	204.9105.S.3006 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE L.S.
IH-94 RAMPS & STH 20	1
TOTAL	1

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.
CB1	PB1	--	33
PB1	PB2	--	228
PB2	SB1	--	10
PB2	PB3	--	51
PB3	SB2	7	--
PB3	SB3	11	--
PB2	PB4	12	--
PB4	SB4	7	--
PB4	SB5	8	--
PB2	PB5	--	208
PB5	SB13	4	--
PB5	PB6	--	122
PB6	PB19	126	--
PB6	PB7	--	194
PB7	PB8	--	62
PB8	SB6	--	29
PB8	SB7	12	--
PB8	SB8	12	--
PB7	PB20	--	123
PB20	PB21	146	--
PB7	PB9	--	210
PB9	PB10	--	102
PB10	PB22	181	--
PB10	PB11	--	114
PB11	PB12	32	--
PB12	SB9	19	--
PB11	PB13	--	78
PB13	PB23	208	--
PB13	PB14	--	120
PB14	SB10	9	--
PB14	PB15	--	88
PB15	PB16	--	148
PB16	PB17	15	--
PB17	SB11	10	--
PB16	SB12	--	9
PB16	PB18	--	198

CONDUIT (CONT'D)

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.
PB18	CB1	--	27
CB1	CB2	--	840
CB2	PB41	--	42
PB41	SB21	12	--
PB41	PB42	--	110
PB42	PB43	--	180
PB43	PB44	--	158
PB44	SB22	--	18
PB44	PB45	--	64
PB45	SB23	--	6
PB45	PB46	--	176
PB46	PB47	--	34
PB47	SB24	6	--
PB46	PB48	--	148
PB48	PB49	--	200
PB49	PB50	--	14
PB50	SB25	12	--
PB50	SB26	14	--
PB50	PB51	--	49
PB51	SB27	--	7
PB49	PB58	--	99
PB58	PB59	150	--
PB49	PB52	--	204
PB52	PB53	--	86
PB53	PB60	206	--
PB53	PB54	--	78
PB54	PB55	16	--
PB54	SB28	38	--
PB54	PB56	--	94
PB56	PB61	217	--
PB56	PB62	12	--
PB56	PB57	--	105
PB57	CB2	--	51
	TOTAL	1502 *	4917 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

3

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB59	288+70.3, 55.0'RT	6'x18'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	126	826	630
12	PB59	288+70.3, 43.0'RT	6'x18'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102	826	510
13	PB59	288+70.3, 31.0'RT	6'x18'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	78	826	390
14	PB58	290+20.3, 55.0'RT	6'x14'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	146	676	730
15	PB58	290+20.3, 43.0'RT	6'x14'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	120	676	600
16	PB58	290+20.3, 31.0'RT	6'x14'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	676	480
21	PB20	298+71.8, 29.3'LT	6'x8'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	486	350
22	PB20	298+71.8, 17.2'LT	6'x8'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	46	486	230
23	PB43	293+25.6, 26.0'LT	6'x20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	106	453	424
24	PB43	292+97.7, 24.1'LT	6'x20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	116	453	464
25	PB43	293+31.4, 14.0'LT	6'x20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	78	453	312
26	PB43	293+03.7, 10.0'LT	6'x20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	92	453	368
41	PB60	866NW+62.8, 6.0'LT	6'x12'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	66	638	330
42	PB61	866NW+62.8, 60.'RT	6'x12'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	563	450
43	PB61	866NW+62.8, 18.0'RT	6'x12'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	66	563	330
44	PB55	864NW+47.9, 37.1'LT	6'x12'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	408	336
45	PB55	864NW+22.8, 45.4'LT	6'x20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	408	384
46	PB53	864NW+28.9, 60.2'LT	6'x20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	82	432	328
47	PB55	864NW+44.5, 25.3'LT	6'x20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	76	408	304
48	PB55	864NW+17.3, 32.0'LT	6'x20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	408	296
49	PB62	864NW+36.8, 6.0'RT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	108	358	324
410	PB62	864NW+08.8, 6.0'RT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	108	358	324
411	PB62	864NW+36.8, 18.0'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	84	358	252
412	PB62	864NW+08.8, 18.0'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	84	358	252

CONT'D ON PAGE 4

3

3

TRAFFIC DETECTOR LOOPS (CONT'D FROM PAGE 3)

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
51	PB21	300+27.7, 54.0'LT	6'x12'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	104	632	520
52	PB21	300+27.7, 42.0'LT	6'x12'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	632	400
53	PB21	300+27.7, 29.7'LT	6'x12'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	56	632	280
54	PB19	298+71.6, 78.0'LT	6'x8'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	60	392	300
55	PB19	298+71.6, 66.0'LT	6'x8'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	392	410
56	PB19	298+71.6, 54.0'LT	6'x8'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	106	392	530
57	PB20	298+71.6, 42.0'LT	6'x8'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	485	480
61	PB58	290+20.3, 13.4'RT	6'x14'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	62	676	310
62	PB17	295+43.9, 14.0'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	137	210
63	PB17	295+71.9, 12.2'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	137	216
81	PB22	858SE+28.0, 18.0'RT	6'x12'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	60	577	300
82	PB22	858SE+28.0, 6.0'RT	6'x12'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	577	430
83	PB23	858SE+28.0, 6.0'LT	6'x12'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	508	400
84	PB23	858SE+28.0, 18.0'LT	6'x12'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	56	508	280
85	PB10	860SE+51.0, 38.8'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	110	396	330
86	PB12	860SE+48.0, 52.0'RT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	114	371	342
87	PB11	860SE+47.6, 26.3'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	78	339	234
88	PB12	860SE+75.0, 33.1'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	82	371	246
89	PB11	860SE+49.9, 5.9'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	80	339	240
810	PB12	860SE+77.9, 5.9'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	80	371	240
811	PB13	860SE+49.9, 18.0'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	300	216
812	PB12	860SE+77.9, 18.0'LT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	104	371	312
					TOTAL	3984 *	22085 *	16624 *

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

3

PULL BOXES

PULL BOX NO.	LOCATION**	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB1	295+25.9, 103.5'LT	--	1
PB2	862NE+13.3, 28.4'LT	--	1
PB3	861NE+86.5, 14.2'RT	--	1
PB4	862NE+23.7, 23.5'LT	1	
PB5	862NE+33.3, 72.8'RT	--	1
PB6	297+58.0, 98.6'LT	--	1
PB7	297+58.0, 1.6'LT	--	1
PB8	296+97.5, 10.0'RT	1	--
PB9	297+56.0, 103.1'RT	--	1
PB10	860SE+13.1, 64.6'RT	--	1
PB11	860SE+23.0, 8.6'RT	--	1
PB12	860SE+54.7, 10.5'RT	1	--
PB13	860SE+28.7, 30.3'LT	--	1
PB14	860SE+78.5, 59.8'LT	1	--
PB15	295+46.9, 75.0'RT	--	1
PB16	295+31.7, 2.6'RT	--	1
PB17	295+46.2, 2.4'RT	1	--
PB18	295+17.5, 95.0'LT	-	1
PB19	298+83.2, 96.0'LT	1	--
PB20	298+80.9, 5.9'LT	1	--
PB21	300+26.4, 17.5'LT	1	--
PB22	858SE+29.6, 33.0'RT	1	--
PB23	858SE+29.9, 30.0'LT	1	--
PB41	863NW+92.3, 75.7'RT	--	1
PB42	293+06.0, 86.0'LT	--	1
PB43	293+41.7, 3.3'LT	--	1
PB44	293+41.7, 75.0'RT	--	1
PB45	293+10.6, 78.3'RT	--	1
PB46	292+28.6, 108.5'RT	--	1
PB47	292+44.5, 79.1'RT	--	1
PB48	291+57.5, 92.5'RT	--	1
PB49	291+21.4, 0.0'RT	--	1
PB50	291+32.5, 8.3'LT	1	--
PB51	291+79.4, 20.4'LT	1	--
PB52	864NW+42.6, 85.8'LT	--	1
PB53	864NW+59.7, 47.4'LT	--	1
PB54	864NW+52.6, 9.0'LT	--	1
PB55	864NW+37.0, 13.3'LT	1	--
PB56	864NW+44.0, 37.2'RT	--	1
PB57	864NW+17.3, 58.5'RT	--	1
PB58	290+22.4, 0.0'RT	1	--
PB59	288+73.7, 13.2'RT	1	--
PB60	866NW+60.8, 23.6'LT	1	--
PB61	866NW+60.8, 35.8'RT	1	--
PB62	864NW+31.9, 36.0'RT	1	--
	TOTAL	18 *	27 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
**FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVE PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB14	1
PB15	1
PB16	1
PB17	1
PB18	1
PB19	1
PB20	1
PB21	1
PB22	1
PB23	1
PB24	1
PB25	1
PB26	1
PB27	1
PB28	1
PB29	1
PB30	1
PB31	1
PB32	1
PB33	1
PB34	1
PB35	1
PB36	1
TOTAL	32 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

3

3

CONCRETE BASES

SIGNAL BASE NO.	LOCATION**	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	SPV.0060.3017 CONCRETE BASES TYPE 10 SPECIAL EACH	654.0113 CONCRETE BASES TYPE 13 EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH	SPV.0060.3003 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL MODIFIED EACH
CB1	295+15.7, 103.7'LT	--	--	--	--	--	--	1
SB1	862NE+04.0, 29.9'LT	--	--	1	--	--	--	--
SB2	861NE+92.3, 11.9'RT	1	--	--	--	--	--	--
SB3	861NE+85.1, 24.7'RT	1	--	--	--	--	--	--
SB4	862NE+17.2, 23.1'LT	1	--	--	--	--	--	--
SB5	862NE+30.9, 22.6'LT	1	--	--	--	--	--	--
SB6	296+69.0, 7.2'RT	--	--	--	--	1	--	--
SB7	296+86.2, 12.4'RT	1	--	--	--	--	--	--
SB8	297+09.3, 10.2'RT	1	--	--	--	--	--	--
SB9	860SE+73.3, 80.'RT	--	1	--	--	--	--	--
SB10	860SE+83.2, 52.7'LT	1	--	--	--	--	--	--
SB11	295+55.6, 1.2'RT	1	--	--	--	--	--	--
SB12	295+39.8, 1.0'LT		--	--	--	1	--	--
SB13	862NE+29.5, 71.5'RT	1	--	--	--	--	--	--
CB2	864NW+04.6, 69.0'RT	--	--	--	--	--	1	--
SB21	863NW+81.2, 72.0'RT	--	1	--	--	--	--	--
SB22	293+23.6, 74.0'RT	--	--	--	--	1	--	--
SB23	293+09.4, 83.5'RT	--	--	--	1	--	--	--
SB24	292+40.3, 75.0'RT	1	--	--	--	--	--	--
SB25	291+22.9, 14.1'LT	1	--	--	--	--	--	--
SB26	291+43.8, 16.6'LT	1	--	--	--	--	--	--
SB27	291+81.8, 14.0'LT	--	--	--	1	--	--	--
SB28	864NW+14.9, 9.5'LT	--	1	--	--	--	--	--
	TOTAL	12 *	3 *	1 *	2 *	3 *	1 *	1

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

IH-94 RAMPS & STH 20
RACINE COUNTY
CATEGORY 1500
S51-0324

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0235 CABLE TRAFFIC SIGNAL 7-12 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0255 CABLE TRAFFIC SIGNAL 12-12 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0265 CABLE TRAFFIC SIGNAL 15-12 AWG L.F.	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED L.F.	655.0325 CABLE TYPE UF 2-8 AWG GROUNDED L.F.
CB1	SB1	--	--	--	140	--	--	--
CB1	SB2	--	204	--	--	--	--	--
CB1	SB3	--	--	--	208	--	--	--
CB1	SB4	--	165	--	--	--	--	--
CB1	SB5	--	166	--	--	--	--	--
CB1	SB6	--	--	--	547	--	--	--
CB1	SB7	--	530	--	--	--	--	--
CB1	SB8	--	530	--	--	--	--	--
CB1	SB9	--	499	--	--	--	--	--
CB1	SB10	--	310	--	--	--	--	--
CB1	SB11	--	192	--	--	--	--	--
CB1	SB12	--	160	--	--	--	--	--
CB1	SB13	--	254	--	--	--	--	--
CB1	CB2	--	--	--	--	314	--	--
CB1	CB2	--	--	--	--	314	--	--
CB2	SB21	53	--	--	--	--	--	--
CB2	SB22	331	--	--	--	--	--	--
CB2	SB23	--	--	367	--	--	--	--
CB2	SB24	--	--	521	--	--	--	--
CB2	SB25	432	--	--	--	--	--	--
CB2	SB26	434	--	--	--	--	--	--
CB2	SB27			492	--	--	--	--
CB2	SB28	196	--	--	--	--	--	--
CB1	CB2	--	--	--	--	--	--	314
CB1	SB1	--	--	--	--	--	140	--
SB1	SB6	--	--	--	--	--	451	--
CB1	SB12	--	--	--	--	--	160	--
SB12	SB9	--	--	--	--	--	381	--
CB2	SB21	--	--	--	--	--	53	--
SB21	SB22	--	--	--	--	--	326	--
SB22	SB23	--	--	--	--	--	96	--
CB2	SB28	--	--	--	--	--	196	--
SB28	SB27	--	--	--	--	--	396	--
	TOTAL	1446 *	3010 *	1380 *	895 *	628 *	2199 *	314 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

IH-94 RAMPS & STH 20
RACINE COUNTY
CATEGORY 1500
S51-0324

3

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	140
SB1	SB2	108
SB2	SB3	42
SB3	SB4	137
SB4	SB5	39
SB5	SB13	184
SB13	SB6	325
SB6	SB7	65
SB7	SB8	48
SB8	SB9	442
SB9	SB10	231
SB10	SB11	224
SB11	SB12	74
SB12	CB1	160
PB1	CB1	34
PB2	SB1	30
PB3	SB2	27
PB4	SB1	58
PB5	SB13	24
PB6	SB13	101
PB7	SB6	127
PB8	SB6	49
PB9	SB9	227
PB10	SB9	160
PB11	SB9	87
PB12	SB9	39
PB13	SB10	105
PB14	SB10	29
PB15	SB10	89
PB16	SB12	29
PB17	SB12	60
PB18	CB1	32
	TOTAL	3526 *

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB2	SB21	41
SB21	SB22	326
SB22	SB23	96
SB23	SB24	190
SB24	SB25	328
SB25	SB26	50
SB26	SB27	110
SB27	SB28	396
SB28	CB2	196
PB41	CB2	37
PB42	CB2	108
PB43	SB22	133
PB44	SB22	38
PB45	SB23	26
PB46	SB24	76
PB47	SB24	26
PB48	SB24	166
PB49	SB27	122
PB50	SB27	92
PB51	SB27	27
PB52	SB28	172
PB53	SB28	113
PB54	SB28	58
PB56	CB2	91
PB57	CB2	40
	TOTAL	3058 *

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0520 ELECTRICAL WIRE TRAFFIC SIGNALS 8 AWG (WHT) L.F.	655.0520 ELECTRICAL WIRE TRAFFIC SIGNALS 8 AWG (GRN) L.F.
CB1	CB2	314	314
	TOTAL	314 *	314 *

3

IH-94 RAMPS & STH 20
RACINE COUNTY
CATEGORY 1500
S51-0324

3

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB1	HEAD 32		53
SB1	HEAD 34	52	--
SB2	HEAD 33	19	--
SB3	HEAD 22	19	--
SB3	HEAD 24	19	--
SB3	HEAD 37	15	--
SB4	HEAD 29	19	--
SB5	HEAD 30	19	--
SB6	HEAD 18	73	--
SB6	HEAD 19	73	--
SB6	HEAD 20	73	--
SB6	HEAD 23	73	--
SB7	HEAD 35	19	--
SB8	HEAD 36	19	--
SB9	HEAD 31	19	--
SB10	HEAD 17	19	--
SB11	HEAD 21	19	--
SB12	HEAD 25	78	--
SB12	HEAD 26	78	--
SB12	HEAD 27	78	--
SB12	HEAD 28	78	--
SB21	HEAD 6	19	--
SB22	HEAD 2	79	--
SB22	HEAD 3	79	--
SB22	HEAD 4	79	--
SB22	HEAD 5	79	--
SB23	HEAD 12	--	69
SB23	HEAD 14	66	--
SB24	HEAD 1	19	--
SB24	HEAD 13	19	--
SB25	HEAD 16	19	--
SB26	HEAD 15	19	--
SB27	HEAD 7	65	--
SB27	HEAD 8	65	--
SB27	HEAD 9	65	--
SB27	HEAD 10	65	--
SB28	HEAD 11	19	--
	TOTAL	1617 *	122 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB1	LUMIN.	144
SB6	LUMIN. (2)	288
SB9	LUMIN. (2)	234
SB12	LUMIN. (2)	288
SB21	LUMIN.	117
SB22	LUMIN.	144
SB23	LUMIN.	144
SB27	LUMIN. (2)	288
SB28	LUMIN. (2)	234
	TOTAL	1881 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0210 ** CABLE TRAFFIC SIGNAL 3-14 AWG L.F.	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB22 (HEAD A)	703	703
CB1	SB12 (HEAD B)	245	245
CB1	SB28 (HEAD C)	523	523
CB1	SB9 (HEAD D)	539	539
	TOTAL	2010 *	2010 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** ITEM 655.0210 TO BE USED WITH STATE SUPPLIED EVP CONFIRMATION LIGHTS

ELECTRICAL SERVICE METER BREAKER PEDESTAL

LOCATION**	656.0200.3002 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.
IH-94 RAMPS & STH 20	1
TOTAL	1

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

3

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0310 POLES TYPE 3 EACH	657.0405 TRAFFIC SIGNAL STANDARDS ALUMINUM 3.5-FT EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB2	1	--	--	--	1	--	--	--
SB3	1	--	--	--	1	--	--	--
SB4	1	--	--	--	1	--	--	--
SB5	1	--	--	--	1	--	--	--
SB7	1	--	--	--	1	--	--	--
SB8	1	--	--	--	1	--	--	--
SB9	--	1	1	--	--	2	--	2
SB10	1	--	--	--	1	--	--	--
SB11	1	--	--	--	1	--	--	--
SB13	1	--	--	1	--	--	1	--
SB21	--	1	1	--	--	1	--	1
SB24	1	--	--	--	1	--	--	--
SB25	1	--	--	--	1	--	--	--
SB26	1	--	--	--	1	--	--	--
SB28	--	1	1	--	--	2	--	2
TOTAL	12 *	3 *	3 *	1 *	11 *	5 *	1 *	5 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

POLES (STATE FURNISHED)

SIGNAL BASE NO.	659.1125 LUMINAIRES UTILITY LED C EACH	SPV.0060.3004 INSTALL POLES TYPE 10 EACH	SPV.0060.3006 INSTALL POLES TYPE 10 SPECIAL EACH	SPV.0060.3008 INSTALL POLES TYPE 13 EACH	SPV.0060.3011 INSTALL MONOTUBE ARMS 30-FT EACH	SPV.0060.3013 INSTALL MONOTUBE ARMS 45-FT TYPE 9/10 SPEC POLE EACH	SPV.0060.3014 INSTALL MONOTUBE ARMS 50-FT EACH	SPV.0060.3015 INSTALL MONOTUBE ARMS 55-FT EACH	SPV.0060.3016 INSTALL LUMINAIRE ARMS STEEL 15-FT EACH
SB1	1	1	--	--	1	--	--	--	1
SB6	2	--	--	1	--	--	1	--	2
SB12	2	--	--	1	--	--	--	1	2
SB22	1	--	--	1	--	--	--	1	1
SB23	1	--	1	--	--	1	--	--	1
SB27	2	--	1	--	--	1	--	--	2
TOTAL	9 *	1 *	2 *	3 *	1 *	2 *	1 *	2 *	9 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

3

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	SPV.0060.3018 BICYCLE SIGNAL FACE 3S 12-INCH EACH
1 ^	SB24	1	--	--
2 ^	SB22	1	--	--
3 ^	SB22	1	--	--
4 ^	SB22	1	--	--
5 ^	SB22	1	--	--
6	SB21	1	--	--
7	SB27	1	--	--
8	SB27	1	--	--
9	SB27	1	--	--
10	SB27	1	--	--
11	SB28	1	--	--
12	SB23	--	1	--
13	SB24	1	--	--
14	SB23	1	--	--
15	SB26	1	--	--
16	SB25	1	--	--
17	SB10	1	--	--
18	SB6	1	--	--
19	SB6	1	--	--
20	SB6	1	--	--
21	SB11	1	--	--
22	SB3	1	--	--
23	SB6	1	--	--
24 ^	SB3	1	--	--
25 ^	SB12	1	--	--
26 ^	SB12	1	--	--
27 ^	SB12	1	--	--
28 ^	SB12	1	--	--
29	SB4	1	--	--
30	SB5	1	--	--
31	SB9	1	--	--
32	SB1	--	1	--
33	SB2	1	--	--
34	SB1	1	--	--
35	SB7	1	--	--
36	SB8	1	--	--
37	SB3	--	--	1
	TOTAL	34 *	2 *	1

^ DENOTES SIGNAL HOUSING WITH REFLECTIVE BACKPLATE
* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

SIGNAL MOUNTING HARDWARE

LOCATION		658.5069.3002 SIGNAL MOUNTING HARDWARE L.S.
IH-94 RAMPS & STH 20		1
	TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION		661.0200.3002 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
IH-94 EB RAMPS & STH 20		1
	TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION		661.0200.3003 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
IH-94 WB RAMPS & STH 20		1
	TOTAL	1

3

TRANSPORT AND INSTALL
STATE FURNISHED TRAFFIC SIGNAL CABINET

LOCATION	SPV.0105.3002 TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET L.S.
IH-94 RAMPS & STH 20 (CB1)	1
TOTAL	1

TRANSPORT AND INSTALL
STATE FURNISHED TRAFFIC SIGNAL CABINET

LOCATION	SPV.0105.3003 TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET L.S.
IH-94 RAMPS & STH 20 (CB2)	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL
AND INTERSECTION LIGHTING MATERIALS

LOCATION	SPV.0105.3007 TRNSPT TRAFFIC SIGNAL & INTERSECTION LIGHTING MATERIALS L.S.
IH-94 RAMPS & STH 20	1
TOTAL	1

EVP DETECTOR HEAD INSTALLATION

LOCATION	SPV.0105.3012 TRNSPT & INSTALL STATE FURN EVP DETECTOR HEADS & CONFIRMATION LIGHTS L.S.
IH-94 RAMPS & STH 20	1
TOTAL	1

STH 20 & E FRONTAGE RD
RACINE COUNTY
CATEGORY 1500
S51-0727

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8 PHASE
1	TRAFFIC SIGNAL CABINET
1	POLES, TYPE 10
2	POLES, TYPE 9 SPECIAL
2	POLES, TYPE 10 SPECIAL
1	MONOTUBE ARMS, 25-FT
2	MONOTUBE ARMS, 35-FT
2	MONOTUBE ARMS, 45-FT,TYPE 9/10 SPEC POLE
6	LUMINAIRE ARMS, STEEL, 15-FT
4	EVP DETECTOR HEADS
4	EVP CONFIRMATION LIGHT

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
SB11	1
SB12	1
TOTAL	12 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

STATE FURNISHED FOR INFORMATION ONLY

SIGNAL BASE NO.	POLES TYPE 10 EACH	POLES TYPE 9 SPECIAL EACH	POLES TYPE 10 SPECIAL EACH	MONOTUBE ARMS 25-FT EACH	MONOTUBE ARMS 35-FT EACH	MONOTUBE ARMS 45-FT EACH	LUMINAIRE ARMS STEEL, 15-FT EACH	EVP DETECTOR HEADS EACH	EVP CONFIRMATION LIGHT EACH
SB2	--	--	--	--	--	--	--	1	1
SB3	--	1	--	--	--	1	--	--	--
SB6	--	--	1	--	1	--	2	1	1
SB7	--	1	--	--	1	--	--	--	--
SB8	1	--	--	1	--	--	2	1	1
SB11	--	--	1	--	--	1	2	1	1
TOTAL	1	2	2	1	2	2	6	4	4

3

3

REMOVE TRAFFIC SIGNALS

LOCATION	204.9105.S.3003 REMOVING TRAFFIC SIGNALS L.S.
STH 20 & E FRONTAGE RD	1
TOTAL	1

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	204.9105.S.3007 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE L.S.
STH 20 & E FRONTAGE RD	1
TOTAL	1

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.
CB1	PB1	--	132
PB1	PB2	--	46
PB2	SB1	6	--
PB1	PB3	--	110
PB3	PB23	181	--
PB3	PB4	--	138
PB4	PB5	30	--
PB5	SB2	13	--
PB4	PB6	--	104
PB6	PB7	--	104
PB7	PB8	--	45
PB8	SB3	--	5
PB8	SB4	5	--
PB7	PB9	--	58
PB9	PB24	--	139
PB24	PB25	150	--
PB9	PB10	--	156
PB10	PB11	28	--
PB11	SB5	20	--
PB10	PB12	--	54
PB12	SB6	--	31
PB12	SB12	15	--
PB12	SB13	13	--
PB12	PB13	--	168
PB13	PB14	--	112
PB14	PB15	--	34
PB15	SB7	--	5
PB14	PB26	10	--
PB26	PB27	199	--
PB14	PB16	--	144
PB16	PB28	7	--
PB16	PB29	20	--
PB16	SB8	--	17
PB16	PB17	--	138
PB17	PB18	--	40
PB18	SB9	6	--
PB17	PB19	--	58
PB19	PB20	--	180
PB20	PB30	--	170
PB30	PB31	149	--
PB20	SB10	23	--
PB20	PB21	--	66
PB21	SB11	--	5
PB21	PB22	--	158
PB22	PB32	176	--
PB22	CB1	--	75
	TOTAL	1051 *	2492 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

STH 20 & E FRONTAGE RD
RACINE COUNTY
CATEGORY 1500
S51-0727

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB11	301+92.1, 6.0'LT	6'x20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	76	421	304
12	PB11	302+20.1, 6.0'LT	6'x20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	76	421	304
13	PB26	5860+17.9, 49.3'LT	6'x20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	76	421	304
14	PB26	5859+95.1, 68.8'LT	6'x20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	421	296
15	PB26	5859+85.1, 62.8'LT	6'x30'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	106	421	318
21	PB31	307+14.9, 78.0'LT	6'x8'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	128	470	640
22	PB31	307+14.9, 66.0'LT	6'x8'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	104	470	520
23	PB31	307+14.9, 54.0'LT	6'x8'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	470	400
24	PB31	307+14.9, 42.0'LT	6'x8'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	58	470	290
25	PB30	305+64.9, 78.0'LT	6'x8'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	130	321	520
26	PB30	305+64.9, 66.0'LT	6'x8'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	106	321	424
27	PB30	305+64.9, 54.0'LT	6'x8'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	321	328
28	PB30	305+64.9, 42.0'LT	6'x8'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	58	321	232
31	PB4	3857+86.8, 5.5'LT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	182	270
32	PB5	3858+14.8, 5.5'LT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	212	264
33	PB4	3857+86.8, 16.5'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	182	204
34	PB5	3858+14.8, 16.5'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	212	204
41	PB27	5862+22.5, 30.5'LT	6'x12'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	620	410
42	PB27	5862+22.5, 19.5'LT	6'x12'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	104	620	520
43	PB29	5860+13.3, 30.5'LT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	112	359	336
44	PB28	5859+85.3, 30.5'LT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	112	346	336
45	PB29	5860+13.3, 19.5'LT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	359	270
46	PB28	5859+85.3, 19.5'LT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	346	270
51	PB21	303+94.1, 6.0'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	118	222
52	PB21	303+66.1, 6.0'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	80	118	240
61	PB25	298+63.5, 55.0'RT	6'x12'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	104	618	520
62	PB25	298+63.5, 43.0'RT	6'x12'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	128	618	640
63	PB25	298+63.5, 31.0'RT	6'x12'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	152	618	760
64	PB24	300+13.5, 55.0'RT	6'x12'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	468	450
65	PB24	300+13.5, 43.0'RT	6'x12'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	114	468	570
66	PB24	300+13.5, 31.0'RT	6'x12'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	138	468	690
71	PB29	5860+13.3, 8.5'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	359	204
72	PB28	5859+85.3, 8.5'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	346	210
81	PB23	3855+67.3, 16.5'RT	6'x8'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	66	294	264
82	PB23	3855+67.2, 5.5'RT	6'x8'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	294	352
83	PB3	3857+86.7, 16.5'RT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	113	300
84	PB2	3858+14.7, 16.5'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	86	104	258
85	PB3	3857+86.7, 5.5'RT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	120	113	360
86	PB2	3858+14.7, 5.5'RT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	108	104	324
S1	PB32	305+89.3, 55.0'RT	6'x6'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	62	215	248
S2	PB32	305+89.3, 43.0'RT	6'x6'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	215	336
S3	PB32	305+89.3, 31.0'RT	6'x6'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	108	215	432
					TOTAL	3898 *	14573 *	15344 *

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

3

PULL BOXES

PULL BOX NO.	LOCATION**	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB1	3858+01.8, 77.6'RT	--	1
PB2	3858+19.8, 35.4'RT	--	1
PB3	3857+61.5, 42.3'RT	--	1
PB4	3857+62.1, 26.0'LT	--	1
PB5	3857+91.9, 26.0'LT	1	--
PB6	3857+62.5, 78.0'LT	--	1
PB7	301+94.8, 95.1'RT	--	1
PB8	302+35.9, 78.3'RT	--	1
PB9	301+68.5, 85.3'RT	--	1
PB10	301+68.4, 8.0'RT	--	1
PB11	301+96.1, 8.0'RT	1	--
PB12	301+68.4, 19.0'LT	--	1
PB13	301+68.4, 103.0'LT	--	1
PB14	5860+15.8, 67.7'LT	--	1
PB15	5859+89.3, 47.4'LT	--	1
PB16	5860+15.8, 4.0'RT	--	1
PB17	5860+15.8, 72.1'RT	--	1
PB18	5859+84.8, 47.9'RT	--	1
PB19	5859+98.8, 94.6'RT	--	1
PB20	303+91.7, 25.0'LT	--	1
PB21	303+93.4, 8.0'RT	--	1
PB22	304+02.7, 85.8'RT	--	1
PB23	3855+69.7, 37.7'RT	1	--
PB24	300+15.9, 84.0'RT	1	--
PB25	298+66.6, 91.5'RT	1	--
PB26	5860+23.9, 62.9'LT	1	--
PB27	5862+21.0, 56.0'LT	1	--
PB28	5860+08.9, 2.3'RT	1	--
PB29	5860+35.3, 2.3'RT	1	--
PB30	305+61.7, 25.0'LT	1	--
PB31	307+10.6, 25.5'LT	1	--
PB32	305+77.6, 75.3'RT	1	--
	TOTAL	12 *	20 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVE PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
PB15	1
PB16	1
PB17	1
TOTAL	17 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

CONCRETE BASES

SIGNAL BASE NO.	LOCATION**	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	SPV.0060.3017 CONCRETE BASES TYPE 10 SPECIAL EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	304+27.3, 90.8'RT	--	--	--	--	1
SB1	303+40.4, 81.1'RT	1	--	--	--	--
SB2	3858+03.2, 26.0'LT	--	1	--	--	--
SB3	302+40.1, 79.0'RT	--	--	--	1	--
SB4	302+33.5, 75.0'RT	1	--	--	--	--
SB5	302+16.1, 8.0'RT	1	--	--	--	--
SB6	301+99.3, 21.3'LT	--	--	--	1	--
SB7	5859+84.5, 48.0'LT	--	--	--	1	--
SB8	5859+99.0, 4.0'RT	--	--	1	--	--
SB9	5859+82.3, 52.6'RT	1	--	--	--	--
SB10	303+70.1, 20.0'LT	1	--	--	--	--
SB11	303+90.1, 11.0'LT	--	--	--	1	--
SB12	301+82.2, 24.0'LT	1	--	--	--	--
SB13	301+56.4, 24.0'LT	1	--	--	--	--
	TOTAL	7 *	1 *	1 *	4 *	1 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

STH 20 & E FRONTAGE RD
RACINE COUNTY
CATEGORY 1500
S51-0727

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED L.F.
CB1	SB1	--	139	--	--
CB1	SB2	286	--	--	--
CB1	SB3	--	429	--	--
CB1	SB4	--	429	--	--
CB1	SB5	566	--	--	--
CB1	SB6	--	576	--	--
CB1	SB7	--	--	575	--
CB1	SB8	--	--	449	--
CB1	SB9	--	409	--	--
CB1	SB10	219	--	--	--
CB1	SB11	--	152	--	--
CB1	SB12	560	--	--	--
CB1	SB13	558	--	--	--
CB1	SB2	--	--	--	286
SB2	SB6	--	--	--	432
CB1	SB11	--	--	--	152
SB11	SB8	--	--	--	331
	TOTAL	2189 *	2134 *	1024 *	1201 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	139
SB1	SB2	307
SB2	SB3	285
SB3	SB4	34
SB4	SB5	293
SB5	SB6	162
SB6	SB12	70
SB12	SB13	52
SB13	SB7	274
SB7	SB8	184
SB8	SB9	188
SB9	SB10	260
SB10	SB11	101
SB11	CB1	152
PB1	CB1	36
PB2	SB1	81
PB3	CB1	83
PB4	SB2	42
PB5	SB2	47
PB6	SB2	139
PB7	SB3	88
PB8	SB3	26
PB9	SB3	159
PB10	SB5	79
PB11	SB5	33
PB12	SB6	154
PB13	SB7	86
PB14	SB7	25
PB15	SB7	131
PB16	SB8	84
PB17	SB9	40
PB18	SB9	51
PB19	SB9	157
PB20	SB10	75
PB21	SB11	25
PB22	CB1	37
	TOTAL	4179 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

3

3

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB1	HEAD 16	19	--
SB1	HEAD 26	--	22
SB2	HEAD 19	19	--
SB3	HEAD 23	69	--
SB3	HEAD 24	69	--
SB3	HEAD 27	--	70
SB4	HEAD 1	19	--
SB4	HEAD 14	--	22
SB5	HEAD 15	--	22
SB6	HEAD 5	--	22
SB6	HEAD 9	58	--
SB6	HEAD 10	58	--
SB7	HEAD 11	56	--
SB7	HEAD 12	56	--
SB7	HEAD20	19	--
SB7	HEAD 22	19	--
SB8	HEAD 17	49	--
SB8	HEAD 18	49	--
SB8	HEAD 21	19	--
SB8	HEAD 25	--	22
SB9	HEAD 6	--	22
SB9	HEAD 8	19	--
SB10	HEAD 7	--	22
SB11	HEAD 2	69	--
SB11	HEAD 3	69	--
SB11	HEAD 4	69	--
SB11	HEAD 13	--	22
SB12	HEAD 28	19	--
SB13	HEAD 29	19	--
	TOTAL	842 *	246 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB2	LUMIN. (2)	234
SB6	LUMIN. (2)	288
SB8	LUMIN. (2)	288
SB11	LUMIN. (2)	288
	TOTAL	1098 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG L.F.	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB6 (HEAD A)	641	641
CB1	SB11 (HEAD B)	227	227
CB1	SB8 (HEAD C)	504	504
CB1	SB2 (HEAD D)	326	326
	TOTAL	1698 *	1698 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** ITEM 655.0210 TO BE USED WITH STATE SUPPLIED EVP CONFIRMATION LIGHTS

ELECTRICAL SERVICE METER BREAKER PEDESTAL

LOCATION**	656.0200.3003 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.
STH 20 & E FRONTAGE RD	1
TOTAL	1

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0310 POLES TYPE 3 EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	1	--	--	--	1	--	--
SB2	--	1	1	--	--	2	2
SB4	1	--	--	--	1	--	--
SB5	1	--	--	--	1	--	--
SB9	1	--	--	--	1	--	--
SB10	1	--	--	--	1	--	--
SB12	1	--	--	1	--	--	--
SB13	1	--	--	1	--	--	--
TOTAL	7 *	1 *	1 *	2 *	5 *	2 *	2 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

POLES (STATE FURNISHED)

SIGNAL BASE NO.	659.1125 LUMINAIRES UTILITY LED C EACH	SPV.0060.3004 INSTALL POLES TYPE 10 EACH	SPV.0060.3005 INSTALL POLES TYPE 9 SPECIAL EACH	SPV.0060.3006 INSTALL POLES TYPE 10 SPECIAL EACH	SPV.0060.3010 INSTALL MONOTUBE ARMS 25-FT EACH	SPV.0060.3012 INSTALL MONOTUBE ARMS 35-FT TYPE 9/10 SPEC POLE EACH	SPV.0060.3013 INSTALL MONOTUBE ARMS 45-FT TYPE 9/10 SPEC POLE EACH	SPV.0060.3016 INSTALL LUMINAIRE ARMS STEEL 15-FT EACH
SB3	--	--	1	--	--	--	1	--
SB6	2	--	--	1	--	1	--	2
SB7	--	--	1	--	--	1	--	--
SB8	2	1	--	--	1	--	--	2
SB11	2	--	--	1	--	--	1	2
TOTAL	6 *	1 *	2 *	2 *	1 *	2 *	2 *	6 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

STH 20 & E FRONTAGE RD
RACINE COUNTY
CATEGORY 1500
S51-0727

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH
1	SB4	1	--
2	SB11	1	--
3	SB11	1	--
4	SB11	1	--
5	SB6	--	1
6	SB9	--	1
7	SB10	--	1
8	SB9	1	--
9	SB6	1	--
10	SB6	1	--
11	SB7	1	--
12	SB7	1	--
13	SB11	--	1
14	SB4	--	1
15	SB5	--	1
16	SB1	1	--
17	SB8	1	--
18	SB8	1	--
19	SB2	1	--
20	SB7	1	--
21	SB8	1	--
22	SB7	1	--
23	SB3	1	--
24	SB3	1	--
25	SB8	--	1
26	SB1	--	1
27	SB3	--	1
28	SB12	1	--
29	SB13	1	--
	TOTAL	20 *	9 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.3003 SIGNAL MOUNTING HARDWARE L.S.
STH 20 & E FRONTAGE RD	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.3004 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
STH 20 & E FRONTAGE RD	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET

LOCATION	SPV.0105.3004 TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET L.S.
STH 20 & E FRONTAGE RD	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS

LOCATION	SPV.0105.3008 TRNSPT TRAFFIC SIGNAL & INTERSECTION LIGHTING MATERIALS L.S.
STH 20 & E FRONTAGE RD	1
TOTAL	1

EVP DETECTOR HEAD INSTALLATION

LOCATION	SPV.0105.3013 TRNSPT & INSTALL STATE FURN EVP DETECTOR HEADS & CONFIRMATION LIGHTS L.S.
STH 20 & E FRONTAGE RD	1
TOTAL	1

3

CONDUIT ITEMS

LOCATION	FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0700.S INSTALL CONDUIT INTO EXISTING ITEM EACH
STH 20 & RED CLOUD DRIVE	CB1	PB1	--	111	--
	PB1	PB2	156	--	--
	PB2	PB3	151	--	--
	PB1	PB4	--	148	--
	PB4	SB2	66	--	--
	PB4	PB5	--	54	--
	PB5	SB3	7	--	--
	PB5	PB6	24	--	--
	PB6	SB4	9	--	--
	PB5	PB7	--	128	--
	PB7	SB5	--	8	--
	PB7	PB8	--	84	--
	PB8	SB6	5	--	--
	PB8	PB9	20	--	--
	PB9	PB10	197	--	1
	PB8	PB11	--	92	--
	PB11	SB7	11	--	--
	PB11	SB8	19	--	--
	PB11	PB12	--	78	--
	PB12	SB9	--	10	--
	PB12	PB13	19	--	--
	PB12	PB14	--	80	--
	PB14	SB10	10	--	--
	PB14	PB15	--	128	--
	PB15	SB11	34	--	--
	PB15	PB16	183	--	--
	PB16	PB17	153	--	--
	PB15	PB18	--	144	--
	PB18	SB12	--	35	--
	PB18	PB19	--	56	--
	PB19	SB13	12	--	--
	PB19	PB20	--	132	--
	PB20	SB14	--	10	--
	PB20	PB21	--	42	--
	PB21	PB22	--	27	--
	PB22	SB15	5	--	--
	PB22	SB16	12	--	--
	PB21	PB23	--	132	--
	PB23	SB17	24	--	--
	PB23	PB24	--	78	--
	PB24	SB18	--	9	--
	PB24	SB19	25	--	--
	PB24	PB25	--	104	--
	PB25	SB1	16	--	--
	PB25	CB1	--	45	--
INTERSECTION TOTAL			1158	1735	1

PULL BOXES

LOCATION	PULL BOX NO.	ALIGNMENT	STATION	OFFSET	653.0135 PULL BOXES STEEL 24" x 36" EACH	653.0140 PULL BOXES STEEL 24" x 42" EACH
STH 20 & RED CLOUD DRIVE	PB1	STH 20	320+65	84.4' RT	--	1
	PB2	STH 20	319+12	84.3' RT	1	--
	PB3	STH 20	317+63	82.9' RT	1	--
	PB4	STH 20	320+61	16.0' RT	--	1
	PB5	STH 20	320+60	16.0' LT	--	1
	PB6	STH 20	320+84	16.0' LT	1	--
	PB7	STH 20	320+55	80.3' LT	--	1
	PB8	STH 20	320+90	101.4' LT	--	1
	PB9	STH 20	320+98	119.9' LT	1	--
	PB11	STH 20	321+35	92.5' LT	--	1
	PB12	STH 20	321+74	99.7' LT	--	1
	PB13	STH 20	321+70	118.7' LT	1	--
	PB14	STH 20	322+14	106.0' LT	--	1
	PB15	STH 20	322+75	84.4' LT	--	1
	PB16	STH 20	324+61	84.4' LT	1	--
	PB17	STH 20	326+16	84.3' LT	1	--
	PB18	STH 20	322+75	12.4' LT	--	1
	PB19	STH 20	322+76	16.1' RT	--	1
	PB20	STH 20	322+73	82.3' RT	--	1
	PB21	STH 20	322+58	97.6' RT	--	1
	PB22	STH 20	322+35	85.3' RT	--	1
	PB23	STH 20	321+96	114.1' RT	--	1
	PB24	STH 20	321+59	123.1' RT	--	1
	PB25	STH 20	321+16	96.0' RT	--	1
INTERSECTION TOTAL					7	17

3

SUMMARY OF STATE FURNISHED MATERIALS

QUANTITY	UNIT	DESCRIPTION
1	EACH	TRAFFIC SIGNAL CABINET
1	EACH	TRAFFIC SIGNAL CONTROLLER
2	EACH	POLES TYPE 10
1	EACH	POLES TYPE 10 SPECIAL
2	EACH	POLES TYPE 13
1	EACH	MONOTUBE ARMS 25-FT
1	EACH	MONOTUBE ARMS 30-FT
1	EACH	MONOTUBE ARMS 35-FT
2	EACH	MONOTUBE ARMS 55-FT
7	EACH	LUMINAIRE ARMS STEEL 15-FT
3	EACH	RADAR DETECTION UNITS
4	EACH	EVP DETECTOR HEADS
4	EACH	EVP CONFIRMATION LIGHTS

NOTE: THIS TABLE IS FOR INFORMATION ONLY.

ALL TRAFFIC SIGNAL QUANTITIES ARE CATEGORY 6500

STH 20 & RED CLOUD DRIVE
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO: S51-1478 PAGE 1 OF 10

SIGNAL BASES AND POLES

LOCATION	SIG. BASE NO.	657.0100 PEDESTAL BASE EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2 INCH EACH	657.0310 POLES TYPE 3 EACH	SPV.0060.3004 INSTALL POLES TYPE 10 EACH	SPV.0060.3006 INSTALL POLES TYPE 10 SPECIAL EACH	SPV.0060.3008 INSTALL POLES TYPE 13 EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	659.1125 LUMINAIRES UTILITY LED C EACH	SPV.0060.3010 INSTALL MONOTUBE ARMS 25-FT EACH	SPV.0060.3011 INSTALL MONOTUBE ARMS 30-FT EACH
STH 20 & RED CLOUD DRIVE	SB1	1	--	--	--	--	--	--	1	--	--	1	--	--	--
	SB2	--	1	1	--	--	--	--	--	--	2	1	2	--	--
	SB3	1	--	--	--	--	--	1	--	--	--	--	--	--	--
	SB4	1	--	--	--	--	--	1	--	--	--	--	--	--	--
	SB5	--	--	--	--	--	1	--	--	--	--	--	1	--	--
	SB6	1	--	--	--	--	--	1	--	--	--	1	--	--	--
	SB7	1	--	--	--	--	--	--	--	1	--	1	--	--	--
	SB8	1	--	--	--	--	--	1	--	--	--	2	--	--	--
	SB9	--	--	--	1	--	--	--	--	--	--	1	2	--	1
	SB10	1	--	--	--	--	--	--	--	1	--	1	--	--	--
	SB11	1	--	--	--	--	--	1	--	--	--	1	--	--	--
	SB12	--	--	--	1	--	--	--	--	--	--	1	2	1	--
	SB13	1	--	--	--	--	--	--	1	--	--	--	--	--	--
	SB14	--	--	--	--	--	1	--	--	--	--	--	1	--	--
	SB15	1	--	--	--	--	--	1	--	--	--	1	--	--	--
	SB16	1	--	--	--	--	--	1	--	--	--	1	--	--	--
	SB17	1	--	--	--	--	--	1	--	--	--	1	--	--	--
	SB18	--	--	--	--	1	--	--	--	--	--	--	1	--	--
	SB19	1	--	--	--	--	--	--	--	1	--	1	--	--	--
INTERSECTION TOTAL		13	1	1	2	1	2	8	2	3	2	14	9	1	1

(CONTINUED ON NEXT PAGE)

STH 20 & RED CLOUD DRIVE
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO: S51-1478 PAGE 2 OF 10

3

SIGNAL BASES AND POLES (CONT.)

LOCATION	SIG. BASE NO.	SPV.0060.3012 INSTALL MONOTUBE ARMS 35-FT TYPE 9/10 SPEC POLE EACH	SPV.0060.3015 INSTALL MONOTUBE ARMS 55-FT EACH	SPV.0060.3016 INSTALL LUMINAIRE ARMS STEEL 15-FT EACH
STH 20 & RED CLOUD DRIVE	SB1	--	--	--
	SB2	--	--	--
	SB3	--	--	--
	SB4	--	--	--
	SB5	--	1	1
	SB6	--	--	--
	SB7	--	--	--
	SB8	--	--	--
	SB9	--	--	2
	SB10	--	--	--
	SB11	--	--	--
	SB12	--	--	2
	SB13	--	--	--
	SB14	--	1	1
	SB15	--	--	--
	SB16	--	--	--
	SB17	--	--	--
	SB18	1	--	1
	SB19	--	--	--
INTERSECTION TOTAL		1	2	7

CONCRETE BASES

LOCATION	SIGNAL BASE NO.	ALIGNMENT	STATION	OFFSET	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	SPV.0600.3017 CONCRETE BASES MONOTUBE TYPE 10 SPECIAL EACH	654.0113 CONCRETE BASES TYPE 13 EACH	654.0217 CONCRETE CONTROL CABINET BASE TYPE 9 SPECIAL EACH
STH 20 & RED CLOUD DR	CB1	STH 20	321+01	97.6' RT	--	--	--	--	--	1
	SB1	STH 20	321+29	86.2' RT	1	--	--	--	--	--
	SB2	STH 20	321+30	15.8' RT	--	1	--	--	--	--
	SB3	STH 20	320+67	16.1' LT	1	--	--	--	--	--
	SB4	STH 20	320+94	15.8' LT	1	--	--	--	--	--
	SB5	STH 20	320+62	83.6' LT	--	--	--	--	1	--
	SB6	STH 20	320+87	96.2' LT	1	--	--	--	--	--
	SB7	STH 20	321+31	82.3' LT	1	--	--	--	--	--
	SB8	STH 20	321+37	82.0' LT	1	--	--	--	--	--
	SB9	STH 20	321+75	89.4' LT	--	--	1	--	--	--
	SB10	STH 20	322+20	98.6' LT	1	--	--	--	--	--
	SB11	STH 20	322+41	88.2' LT	1	--	--	--	--	--
	SB12	STH 20	322+45	12.3' LT	--	--	1	--	--	--
	SB13	STH 20	322+64	15.6' RT	1	--	--	--	--	--
	SB14	STH 20	322+83	81.1' RT	--	--	--	--	1	--
	SB15	STH 20	322+34	82.3' RT	1	--	--	--	--	--
	SB16	STH 20	322+32	74.2' RT	1	--	--	--	--	--
	SB17	STH 20	321+92	90.9' RT	1	--	--	--	--	--
	SB18	STH 20	321+58	114.3' RT	--	--	--	1	--	--
	SB19	STH 20	321+51	99.9' RT	1	--	--	--	--	--
INTERSECTION TOTAL					13	1	2	1	2	1

3

STH 20 & RED CLOUD DRIVE
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO: S51-1478

TRAFFIC SIGNAL CABLE

LOCATION	LOC.	TO	LOC.	655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG LF	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG LF	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED LF	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	(INCIDENTAL) LOOP DETECTOR LEAD IN CABLE LF	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF	(INCIDENTAL)+ RADAR DETECTION COAXIAL CABLE LF
STH 20 & RED CLOUD DRIVE	CB1		SB1	--	--	--	45	--	--	45	--	--	--	--
	CB1		SB2	--	--	--	217	--	217	217	--	--	--	--
	CB1		SB3	--	--	193	--	--	--	--	--	--	--	--
	CB1		SB4	--	--	--	232	--	--	--	--	--	--	--
	CB1		SB5	309	--	275	--	--	--	--	--	--	309	--
	CB1		SB6	--	--	--	328	--	--	--	--	--	--	--
	CB1		SB7	--	--	--	397	--	--	--	--	--	--	--
	CB1		SB8	--	--	--	--	397	--	--	--	--	--	--
	CB1		SB9	430	--	--	--	449	--	--	--	--	430	--
	CB1		SB10	--	--	--	503	--	--	--	--	--	--	--
	CB1		SB11	--	--	--	520	--	--	--	--	--	--	--
	CB1		SB12	--	--	--	431	--	--	--	--	--	--	414
	CB1		SB13	--	--	363	--	--	--	--	--	--	--	--
	CB1		SB14	307	--	277	--	--	--	--	--	--	307	--
	CB1		SB15	--	--	--	276	--	--	--	--	--	--	--
	CB1		SB16	--	--	--	286	--	--	--	--	--	--	--
	CB1		SB17	--	--	--	175	--	--	--	--	--	--	--
	CB1		SB18	142	--	105	--	--	105	--	--	--	142	265
	CB1		SB19	--	--	--	122	--	--	--	--	--	--	--
	SB1		SB19	--	--	--	--	--	--	124	--	--	--	--
	SB2		SB3	--	--	--	--	--	--	133	--	--	--	--
	SB2		SB5	--	--	--	--	--	216	--	--	--	--	--
	SB3		SB4	--	--	--	--	--	--	66	--	--	--	--
	SB4		SB5	--	--	--	--	--	--	147	--	--	--	--
	SB5		SB6	--	--	--	--	--	--	80	--	--	--	--
	SB5		SB9	--	--	--	--	--	202	--	--	--	--	--
	SB6		SB7	--	--	--	--	--	--	89	--	--	--	--
	SB7		SB8	--	--	--	--	--	--	44	--	--	--	--

(CONTINUED ON NEXT PAGE)

+RADAR DETECTION CABLE IS MEASURED FROM CB1 TO THE RADAR DETECTION UNIT.

STH 20 & RED CLOUD DRIVE
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO: S51-1478

TRAFFIC SIGNAL CABLE (CONTINUED FROM PREVIOUS PAGE)

LOCATION	LOC.	TO	LOC.	655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG LF	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG LF	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED LF	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	(INCIDENTAL) LOOP DETECTOR LEAD IN CABLE LF	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF	(INCIDENTAL)+ RADAR DETECTION COAXIAL CABLE LF
STH 20 & RED CLOUD DRIVE	SB8		SB9	--	--	--	--	--	--	88	--	--	--	--
	SB9		SB10	--	--	--	--	--	--	88	--	--	--	--
	SB10		SB11	--	--	--	--	--	--	141	--	--	--	--
	SB11		SB12	--	--	--	--	--	--	177	--	--	--	--
	SB12		SB13	--	--	--	--	--	--	105	--	--	--	--
	SB12		SB14	--	--	--	--	--	187	--	--	--	--	--
	SB13		SB14	--	--	--	--	--	--	119	--	--	--	--
	SB14		SB15	--	--	--	--	--	--	100	--	--	--	--
	SB14		SB18	--	--	--	--	--	204	--	--	--	--	--
	SB15		SB16	--	--	--	--	--	--	28	--	--	--	--
	SB16		SB17	--	--	--	--	--	--	175	--	--	--	--
	SB17		SB18	--	--	--	--	--	--	100	--	--	--	--
	SB18		SB19	--	--	--	--	--	--	47	--	--	--	--
	PB1		CB1	--	--	--	--	--	--	52	--	--	--	--
	PB4		SB3	--	--	--	--	--	--	59	--	--	--	--
	PB5		SB3	--	--	--	--	--	--	19	--	--	--	--
	PB6		SB4	--	--	--	--	--	--	21	--	--	--	--
	PB7		SB5	--	--	--	--	--	--	20	--	--	--	--
	PB8		SB6	--	--	--	--	--	--	15	--	--	--	--
	PB11		SB8	--	--	--	--	--	--	23	--	--	--	--
	PB12		SB9	--	--	--	--	--	--	22	--	--	--	--
	PB14		SB10	--	--	--	--	--	--	22	--	--	--	--
	PB15		SB11	--	--	--	--	--	--	48	--	--	--	--
	PB18		SB12	--	--	--	--	--	--	50	--	--	--	--
	PB19		SB13	--	--	--	--	--	--	24	--	--	--	--
	PB20		SB14	--	--	--	--	--	--	22	--	--	--	--
	PB21		SB14	--	--	--	--	--	--	56	--	--	--	--
	PB22		SB15	--	--	--	--	--	--	14	--	--	--	--
	PB23		SB17	--	--	--	--	--	--	37	--	--	--	--
	PB24		SB18	--	--	--	--	--	--	21	--	--	--	--
	PB25		CB1	--	--	--	--	--	--	28	--	--	--	--

(CONTINUED ON NEXT PAGE)

+RADAR DETECTION CABLE IS MEASURED FROM CB1 TO THE RADAR DETECTION UNIT.

STH 20 & RED CLOUD DRIVE
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO: S51-1478

TRAFFIC SIGNAL CABLE (CONTINUED FROM PREVIOUS PAGE)

LOCATION	LOC.	TO LOC.	655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG LF	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG LF	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED LF	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	(INCIDENTAL) LOOP DETECTOR LEAD IN CABLE LF	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF	(INCIDENTAL)+ RADAR DETECTION COAXIAL CABLE LF
STH 20 & RED CLOUD DRIVE	SB1	HEAD 1	--	19	--	--	--	--	--	--	--	--	--
	SB1	HEAD 12	--	19	--	--	--	--	--	--	--	--	--
	SB1	HEAD 37	--	15	--	--	--	--	--	--	--	--	--
	SB1	PUSH BUTTON	--	--	--	--	--	--	--	--	6	--	--
	SB2	HEAD 13	--	19	--	--	--	--	--	--	--	--	--
	SB2	HEAD 38	--	15	--	--	--	--	--	--	--	--	--
	SB2	HEAD 39	--	15	--	--	--	--	--	--	--	--	--
	SB2	PUSH BUTTON	--	--	--	--	--	--	--	--	6	--	--
	SB2	LUMINAIRE	--	--	--	--	--	--	--	234	--	--	--
	SB3	HEAD 28	--	19	--	--	--	--	--	--	--	--	--
	SB4	HEAD 4	--	19	--	--	--	--	--	--	--	--	--
	SB4	HEAD 27	--	19	--	--	--	--	--	--	--	--	--
	SB5	HEAD 8	--	80	--	--	--	--	--	--	--	--	--
	SB5	HEAD 9	--	80	--	--	--	--	--	--	--	--	--
	SB5	HEAD 10	--	80	--	--	--	--	--	--	--	--	--
	SB5	LUMINAIRE	--	--	--	--	--	--	--	145	--	--	--
	SB6	HEAD 26	--	19	--	--	--	--	--	--	--	--	--
	SB6	HEAD 42	--	15	--	--	--	--	--	--	--	--	--
	SB6	PUSH BUTTON	--	--	--	--	--	--	--	--	6	--	--
	SB7	HEAD 41	--	15	--	--	--	--	--	--	--	--	--
	SB7	PUSH BUTTON	--	--	--	--	--	--	--	--	6	--	--
	SB8	HEAD 18	--	19	--	--	--	--	--	--	--	--	--
	SB8	HEAD 20	--	19	--	--	--	--	--	--	--	--	--
	SB8	HEAD 29	--	15	--	--	--	--	--	--	--	--	--
	SB8	HEAD 40	--	15	--	--	--	--	--	--	--	--	--
	SB8	PUSH BUTTON	--	--	--	--	--	--	--	--	6	--	--
	SB8	PUSH BUTTON	--	--	--	--	--	--	--	--	6	--	--
	SB9	HEAD 15	--	55	--	--	--	--	--	--	--	--	--
	SB9	HEAD 16	--	55	--	--	--	--	--	--	--	--	--
	SB9	HEAD 19	--	26	--	--	--	--	--	--	--	--	--
	SB9	HEAD 23	--	26	--	--	--	--	--	--	--	--	--
	SB9	PUSH BUTTON	--	--	--	--	--	--	--	--	6	--	--
	SB9	LUMINAIRE	--	--	--	--	--	--	--	288	--	--	--

(CONTINUED ON NEXT PAGE)

+RADAR DETECTION CABLE IS MEASURED FROM CB1 TO THE RADAR DETECTION UNIT.

STH 20 & RED CLOUD DRIVE
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO: S51-1478

TRAFFIC SIGNAL CABLE (CONTINUED FROM PREVIOUS PAGE)

LOCATION	LOC.	TO LOC.	655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG LF	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG LF	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED LF	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	(INCIDENTAL) LOOP DETECTOR LEAD IN CABLE LF	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF	(INCIDENTAL)+ RADAR DETECTION COAXIAL CABLE LF
STH 20 & RED CLOUD DRIVE	SB10	HEAD 30	--	15	--	--	--	--	--	--	--	--	--
	SB10	PUSH BUTTON	--	--	--	--	--	--	--	--	6	--	--
	SB11	HEAD 7	--	19	--	--	--	--	--	--	--	--	--
	SB11	HEAD 31	--	15	--	--	--	--	--	--	--	--	--
	SB11	PUSH BUTTON	--	--	--	--	--	--	--	--	6	--	--
	SB12	HEAD 5	--	50	--	--	--	--	--	--	--	--	--
	SB12	HEAD 6	--	50	--	--	--	--	--	--	--	--	--
	SB12	HEAD 32	--	15	--	--	--	--	--	--	--	--	--
	SB12	HEAD 33	--	15	--	--	--	--	--	--	--	--	--
	SB12	PUSH BUTTON	--	--	--	--	--	--	--	--	6	--	--
	SB12	LUMINAIRE	--	--	--	--	--	--	--	288	--	--	--
	SB13	HEAD 11	--	19	--	--	--	--	--	--	--	--	--
	SB14	HEAD 2	--	80	--	--	--	--	--	--	--	--	--
	SB14	HEAD 3	--	80	--	--	--	--	--	--	--	--	--
	SB14	LUMINAIRE	--	--	--	--	--	--	--	145	--	--	--
	SB15	HEAD 14	--	19	--	--	--	--	--	--	--	--	--
	SB15	HEAD 35	--	15	--	--	--	--	--	--	--	--	--
	SB15	PUSH BUTTON	--	--	--	--	--	--	--	--	6	--	--
	SB16	HEAD 24	--	19	--	--	--	--	--	--	--	--	--
	SB16	HEAD 34	--	15	--	--	--	--	--	--	--	--	--
	SB16	PUSH BUTTON	--	--	--	--	--	--	--	--	6	--	--
	SB17	HEAD 17	--	19	--	--	--	--	--	--	--	--	--
	SB17	HEAD 25	--	19	--	--	--	--	--	--	--	--	--
	SB17	PUSH BUTTON	--	--	--	--	--	--	--	--	6	--	--
	SB18	HEAD 21	--	60	--	--	--	--	--	--	--	--	--
	SB18	HEAD 22	--	60	--	--	--	--	--	--	--	--	--
	SB18	LUMINAIRE	--	--	--	--	--	--	--	145	--	--	--
	SB19	HEAD 36	--	15	--	--	--	--	--	--	--	--	--
	SB19	PUSH BUTTON	--	--	--	--	--	--	--	--	6	--	--
INTERSECTION TOTAL			1188	1277	1213	3532	846	1131	2666	1245	84	1188	679

+RADAR DETECTION CABLE IS MEASURED FROM CB1 TO THE RADAR DETECTION UNIT.

STH 20 & RED CLOUD DRIVE
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO: S51-1478

3

			SIGNAL FACES									
			658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH	* BCKPLT 3-SEC.	* LED RED BALL	* LED YELLOW BALL	* LED GREEN BALL	* LED RED ARROW	* LED YELLOW ARROW	* LED GREEN ARROW	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH	** PEDESTRIAN COUNTDOWN TIMER 16"
LOCATION	SIG. BASE NO.	SIG. HEAD NO.	TYPE OF MOUNT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
STH 20 & RED CLOUD DRIVE	SB1	1	POST MOUNT VERTICAL	1	1	1	1	1	--	--	--	--	--
	SB1	12	POST MOUNT VERTICAL	1	1	--	--	--	1	1	1	--	--
	SB1	37	PEDESTRIAN	--	--	--	--	--	--	--	--	1	1
	SB2	13	POST MOUNT VERTICAL	1	1	--	--	--	1	1	1	--	--
	SB2	38	PEDESTRIAN	--	--	--	--	--	--	--	--	1	1
	SB2	39	PEDESTRIAN	--	--	--	--	--	--	--	--	1	1
	SB3	28	POST MOUNT VERTICAL	1	1	1	--	--	--	1	1	--	--
	SB4	4	POST MOUNT VERTICAL	1	1	--	--	--	1	1	1	--	--
	SB4	27	POST MOUNT VERTICAL	1	1	1	--	--	--	1	1	--	--
	SB5	8	MONOTUBE ARM MOUNT VERTICAL	1	1	1	1	1	--	--	--	--	--
	SB5	9	MONOTUBE ARM MOUNT VERTICAL	1	1	1	1	1	--	--	--	--	--
	SB5	10	MONOTUBE ARM MOUNT VERTICAL	1	1	1	1	1	--	--	--	--	--
	SB6	26	POST MOUNT VERTICAL	1	1	1	--	--	--	1	1	--	--
	SB6	42	PEDESTRIAN	--	--	--	--	--	--	--	--	1	1
	SB7	41	PEDESTRIAN	--	--	--	--	--	--	--	--	1	1
	SB8	18	POST MOUNT VERTICAL	1	1	--	--	--	1	1	1	--	--
	SB8	20	POST MOUNT VERTICAL	1	1	1	1	1	--	--	--	--	--
	SB8	29	PEDESTRIAN	--	--	--	--	--	--	--	--	1	1
	SB8	40	PEDESTRIAN	--	--	--	--	--	--	--	--	1	1
	SB9	15	MONOTUBE ARM MOUNT VERTICAL	1	1	1	1	1	--	--	--	--	--
	SB9	16	MONOTUBE ARM MOUNT VERTICAL	1	1	1	1	1	--	--	--	--	--
	SB9	19	MONOTUBE POLE MOUNT VERTICAL	1	1	--	--	--	1	1	1	--	--
	SB9	23	MONOTUBE POLE MOUNT VERTICAL	1	1	--	--	--	1	1	1	--	--
	SB10	30	PEDESTRIAN	--	--	--	--	--	--	--	--	1	1
	SB11	7	POST MOUNT VERTICAL	1	1	1	1	1	--	--	--	--	--
	SB11	31	PEDESTRIAN	--	--	--	--	--	--	--	--	1	1
	SB12	5	POST MOUNT VERTICAL	1	1	--	--	--	1	1	1	--	--
	SB12	6	POST MOUNT VERTICAL	1	1	--	--	--	1	1	1	--	--
	SB12	32	PEDESTRIAN	--	--	--	--	--	--	--	--	1	1
	SB12	33	PEDESTRIAN	--	--	--	--	--	--	--	--	1	1
	SB13	11	POST MOUNT VERTICAL	1	1	--	--	--	1	1	1	--	--
	SB14	2	MONOTUBE ARM MOUNT VERTICAL	1	1	1	1	1	--	--	--	--	--
	SB14	3	MONOTUBE ARM MOUNT VERTICAL	1	1	1	1	1	--	--	--	--	--
	SB15	14	POST MOUNT VERTICAL	1	1	1	1	1	--	--	--	--	--
	SB15	35	PEDESTRIAN	--	--	--	--	--	--	--	--	1	1
	SB16	24	POST MOUNT VERTICAL	1	1	--	--	--	1	1	1	--	--
	SB16	34	PEDESTRIAN	--	--	--	--	--	--	--	--	1	1
	SB17	17	POST MOUNT VERTICAL	1	1	--	--	--	1	1	1	--	--
	SB17	25	POST MOUNT VERTICAL	1	1	--	--	--	1	1	1	--	--
	SB18	21	MONOTUBE ARM MOUNT VERTICAL	1	1	1	1	1	--	--	--	--	--
	SB18	22	MONOTUBE ARM MOUNT VERTICAL	1	1	1	1	1	--	--	--	--	--
	SB19	36	PEDESTRIAN	--	--	--	--	--	--	--	--	1	1
INTERSECTION TOTAL				28	28	16	13	13	12	15	15	14	14

*INCIDENTAL TO 658.0173
**INCIDENTAL TO 658.0416

STH 20 & RED CLOUD DRIVE
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO: S51-1478

3

TRAFFIC DETECTOR LOOPS

LOCATION	LOOP NO.	HOME RUN PB	ALIGNMENT	STATION/OFFSET*	SIZE	SDD INSTALLATION REFERENCE	NO. OF TURNS	PAVEMENT TYPE	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 LOOP DETECTOR LEAD IN CABLE LF	655.0800 LOOP DETECTOR WIRE LF
STH 20 & RED CLOUD DRIVE	11	PB6	STH 20	320+78, 6' LT	6'x20'	9F15-4a	3	CONCRETE	70	170	186
	12	PB6	STH 20	321+06, 6' LT	6'x20'	9F15-4a	3	CONCRETE	68	170	184
	13	PB6	STH 20	320+79, 6' RT	6'x20'	9F15-4b	3	CONCRETE	90	170	206
	14	PB6	STH 20	321+07, 6' RT	6'x20'	9F15-4b	3	CONCRETE	90	170	206
	15	PB9	STH 20	321+12, 119' LT	6'x20'	9F15-4a	3	CONCRETE	72	273	188
	16	PB9	STH 20	321+01, 93' LT	6'x20'	9F15-4a	3	CONCRETE	80	273	196
	17	PB9	STH 20	321+24, 115' LT	6'x20'	9F15-4b	3	CONCRETE	98	273	214
	18	PB9	STH 20	321+18, 88' LT	6'x20'	9F15-4b	3	CONCRETE	104	273	220
	21	PB17	STH 20	326+16, 71' LT	6'x14'	9F15-4a	5	CONCRETE	60	702	232
	22	PB17	STH 20	326+17, 56' LT	6'x14'	9F15-4b	5	CONCRETE	90	702	262
	23	PB17	STH 20	326+17, 42' LT	6'x14'	9F15-4b	5	CONCRETE	118	702	290
	24	PB17	STH 20	326+17, 30' LT	6'x14'	9F15-4b	5	CONCRETE	142	702	314
	25	PB16	STH 20	324+61, 71' LT	6'x10'	9F15-4a	5	CONCRETE	52	550	192
	26	PB16	STH 20	324+61, 56' LT	6'x10'	9F15-4b	5	CONCRETE	82	550	222
	27	PB16	STH 20	324+61, 43' LT	6'x10'	9F15-4b	5	CONCRETE	110	550	250
	28	PB16	STH 20	324+61, 31' LT	6'x10'	9F15-4b	5	CONCRETE	134	550	274
	44	PB13	STH 20	321+43, 113' LT	6'x20'	9F15-4b	3	CONCRETE	102	355	218
	45	PB13	STH 20	321+48, 85' LT	6'x20'	9F15-4b	3	CONCRETE	104	355	220
	51	PB19	STH 20	322+82, 6' RT	6'x20'	9F15-4a	3	CONCRETE	72	267	188
	52	PB19	STH 20	322+54, 6' RT	6'x20'	9F15-4a	3	CONCRETE	66	267	182
	61	PB3	STH 20	317+63, 59' RT	6'x6'	9F15-4b	5	CONCRETE	74	352	182
	62	PB3	STH 20	317+63, 43' RT	6'x6'	9F15-4b	5	CONCRETE	98	352	206
	63	PB3	STH 20	317+63, 31' RT	6'x6'	9F15-4b	5	CONCRETE	122	352	230
	64	PB2	STH 20	319+12, 73' RT	6'x6'	9F15-4a	4	CONCRETE	40	201	124
	65	PB2	STH 20	319+12, 59' RT	6'x6'	9F15-4b	4	CONCRETE	76	201	160
	66	PB2	STH 20	319+13, 42' RT	6'x6'	9F15-4b	4	CONCRETE	102	201	186
	67	PB2	STH 20	319+13, 30' RT	6'x6'	9F15-4b	4	CONCRETE	126	201	210
	71	PB13	STH 20	321+58, 116' LT	6'x20'	9F15-4a	3	CONCRETE	72	355	188
	72	PB13	STH 20	321+63, 89' LT	6'x20'	9F15-4a	3	CONCRETE	78	355	194
INTERSECTION TOTAL									2592	10594	6124

*LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.

NOTES: FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

S.D.D. 9F15-4a: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)

S.D.D. 9F15-4b: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

STH 20 & RED CLOUD DRIVE
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO: S51-1478 PAGE 9 OF 10

3

ELECTRICAL SERVICE METER BREAKER PEDESTAL

LOCATION	656.0200.3004 ELECTRICAL SERVICE METER BREAKER PEDESTAL (STH 20 & RED CLOUD DRIVE) LS
STH 20 & RED CLOUD DRIVE	1
TOTAL	1

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.3004 SIGNAL MOUNTING HARDWARE (STH 20 & RED CLOUD DRIVE) LS
STH 20 & RED CLOUD DRIVE	1
TOTAL	1

3

TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET

LOCATION	SPV.0105.3005 TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET STH 20 & RED CLOUD DR LS
STH 20 & RED CLOUD DRIVE	1
TOTAL	1

TRNSPT TRAFFIC SIGNAL & INTERSECTION LIGHTING MATERIALS

LOCATION	SPV.0105.3009 TRNSPT TRAFFIC SIGNAL & INTERSECTION LIGHTING MATERIALS STH 20 & RED CLOUD DR LS
STH 20 & RED CLOUD DRIVE	1
TOTAL	1

TRNSPT & INSTALL STATE FURN EVP
DETECTOR HEADS & CONFIRMATION LIGHTS

LOCATION	SPV.0105.3014 TRNSPT & INSTALL STATE FURN EVP DETECTOR HEADS & CONFIRMATION LIGHTS STH 20 & RED CLOUD DR LS
STH 20 & RED CLOUD DRIVE	1
TOTAL	1

TRNSPT AND INSTALL STATE FURN RADAR DETECTION SYSTEM

LOCATION	SPV.0105.3017 TRNSPT AND INSTALL STATE FURN RADAR DETECTION SYSTEM STH 20 & RED CLOUD DRIVE LS
STH 20 & RED CLOUD DRIVE	1
TOTAL	1

STH 20 & RED CLOUD DRIVE
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO: S51-1478 PAGE 10 OF 10

STH 20 & CTH H/RENAISSANCE BLVD
RACINE COUNTY
CATEGORY 1500
S51-0719

3

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
0	TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8 PHASE
0	TRAFFIC SIGNAL CABINET
1	POLES, TYPE 10
3	POLES, TYPE 10 SPECIAL
1	MONOTUBE ARMS, 30-FT
2	MONOTUBE ARMS, 35-FT
1	MONOTUBE ARMS, 45-FT
8	LUMINAIRE ARMS, STEEL, 15-FT
4	EVP DETECTOR HEADS
4	EVP CONFIRMATION LIGHT

STATE FURNISHED FOR INFORMATION ONLY

SIGNAL BASE NO.	POLES TYPE 10 EACH	POLES TYPE 10 SPECIAL EACH	MONOTUBE ARMS 30-FT EACH	MONOTUBE ARMS 35-FT EACH	MONOTUBE ARMS 45-FT EACH	LUMINAIRE ARMS STEEL, 15-FT EACH	EVP DETECTOR HEADS EACH	EVP CONFIRMATION LIGHT EACH
SB3	--	1	--	--	1	2	1	1
SB5	--	1	--	1	--	2	1	1
SB9	1	--	1	--	--	2	1	1
SB13	--	1	--	1	--	2	1	1
TOTAL	1	3	1	2	1	8	4	4

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB3	1
SB5	1
SB6	1
SB10	1
SB14	1
TOTAL	5 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

REMOVE TRAFFIC SIGNALS

LOCATION	204.9105.S.3004 REMOVING TRAFFIC SIGNALS L.S.
STH 20 & CTH H/RENAISSANCE BLVD	1
TOTAL	1

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.
PB6	SB2	27	--
PB6	SB3	--	18
PB12	SB5	--	20
PB14	SB6	5	--
PB18	SB9	--	14
PB23	SB13	--	5
	TOTAL	32 *	57 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

PULL BOXES

PULL BOX NO.	LOCATION**	653.0140 PULL BOXES STEEL 24x42-INCH EACH	SPV.0060.3001 PULL BOX RIMS & COVERS EACH
PB1	REPLACE RIM & COVER ONLY	--	1
PB2	REPLACE RIM & COVER ONLY	--	1
PB6	REPLACE RIM & COVER ONLY	--	1
PB7	REPLACE RIM & COVER ONLY	--	1
PB8	REPLACE RIM & COVER ONLY	--	1
PB10	REPLACE RIM & COVER ONLY	--	1
PB12	REPLACE RIM & COVER ONLY	--	1
PB13	REPLACE RIM & COVER ONLY	--	1
PB14	INSTALL IN SAME LOCATION	1	--
PB15	REPLACE RIM & COVER ONLY	--	1
PB18	REPLACE RIM & COVER ONLY	--	1
PB19	REPLACE RIM & COVER ONLY	--	1
PB20	REPLACE RIM & COVER ONLY	--	1
PB22	REPLACE RIM & COVER ONLY	--	1
PB23	REPLACE RIM & COVER ONLY	--	1
PB25	REPLACE RIM & COVER ONLY	--	1
	TOTAL	1 *	15

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

CONCRETE BASES

SIGNAL BASE NO.	LOCATION**	654.0110 CONCRETE BASES TYPE 10 EACH	SPV.0060.3017 CONCRETE BASES TYPE 10 SPECIAL EACH
SB3	214'WB'+37.7, 21.6'RT	--	1
SB5	215'WB'+18.8, 61.1'LT	--	1
SB9	216'EB'+57.5, 8.2'LT	1	--
SB13	215'EB'+16.1', 85.5'RT	--	1
	TOTAL	1 *	3 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVE PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH	SPV.0060.3002 REMOVING PULL BOX RIMS & COVERS EACH
PB1	--	1
PB2	--	1
PB6	--	1
PB7	--	1
PB8	--	1
PB10	--	1
PB12	--	1
PB13	--	1
PB14	1	--
PB15	--	1
PB18	--	1
PB19	--	1
PB20	--	1
PB22	--	1
PB23	--	1
PB25	--	1
TOTAL	1 *	15

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

3

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED L.F.
CB1	SB1	106	--	--	--
CB1	SB2	167	--	--	--
CB1	SB3	--	158	--	--
CB1	SB4	--	334	--	--
CB1	SB5	--	--	390	--
CB1	SB6	--	511	--	--
CB1	SB7	--	406	--	--
CB1	SB8	394	--	--	--
CB1	SB9	--	402	--	--
CB1	SB10	335	--	--	--
CB1	SB11	--	322	--	--
CB1	SB12	--	157	--	--
CB1	SB13	144	--	--	--
CB1	SB3	--	--	--	158
SB3	SB5	--	--	--	292
CB1	SB13	--	--	--	144
SB13	SB9	--	--	--	292
	TOTAL	1146 *	2290 *	390 *	886 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	106
SB1	SB2	211
SB2	SB3	69
SB3	SB4	236
SB4	SB5	188
SB5	SB6	185
SB6	SB7	290
SB7	SB8	50
SB8	SB9	46
SB9	SB10	129
SB10	SB11	191
SB11	SB12	225
SB12	SB13	47
SB13	CB1	144
PB1	CB1	39
PB2	SB1	23
PB6	SB3	38
PB7	SB3	118
PB8	SB4	74
PB10	SB4	22
PB12	SB5	40
PB13	SB6	86
PB14	SB6	25
PB15	SB9	128
PB18	SB9	34
PB19	SB10	39
PB20	SB10	110
PB22	SB11	24
PB23	SB13	25
PB25	CB1	59
	TOTAL	3001 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

3

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB1	HEAD 1	19	--
SB2	HEAD 4	--	22
SB3	HEAD 8	64	--
SB3	HEAD 9	64	--
SB3	HEAD 11	64	--
SB3	HEAD 12	64	--
SB4	HEAD 17	--	22
SB4	HEAD 22	19	--
SB5	HEAD 14	56	--
SB5	HEAD 15	56	--
SB5	HEAD 18	--	22
SB5	HEAD 25	--	22
SB6	HEAD 5	--	22
SB6	HEAD 7	19	--
SB7	HEAD 6	--	22
SB7	HEAD 10	19	--
SB8	HEAD 20	19	--
SB9	HEAD 2	51	--
SB9	HEAD 3	61	--
SB9	HEAD 21	19	--
SB10	HEAD 19	19	--
SB11	HEAD 13	19	--
SB11	HEAD 26	--	22
SB12	HEAD 16	--	22
SB12	HEAD 27	--	22
SB13	HEAD 23	57	--
SB13	HEAD 24	57	--
	TOTAL	746 *	198 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB3	LUMIN. (2)	288
SB5	LUMIN. (2)	288
SB9	LUMIN. (2)	288
SB13	LUMIN. (2)	288
	TOTAL	1152 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG L.F.	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB3 (HEAD A)	233	233
CB1	SB9 (HEAD B)	462	462
CB1	SB13 (HEAD C)	199	199
CB1	SB5 (HEAD D)	455	455
	TOTAL	1349 *	1349 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** ITEM 655.0210 TO BE USED WITH STATE SUPPLIED EVP CONFIRMATION LIGHTS

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH
SB1	1	1	--
SB2	1	--	1
SB4	1	--	1
SB6	1	--	1
SB7	1	--	1
SB8	1	1	--
SB10	1	1	--
SB11	1	--	1
SB12	1	--	1
TOTAL	9 *	3 *	6 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH
1	SB1	1	--
2	SB9	1	--
3	SB9	1	--
4	SB2	--	1
5	SB6	--	1
6	SB7	--	1
7	SB6	1	--
8	SB3	1	--
9	SB3	1	--
10	SB7	1	--
11	SB3	1	--
12	SB3	1	--
13	SB11	1	--
14	SB5	1	--
15	SB5	1	--
16	SB12	--	1
17	SB4	--	1
18	SB5	--	1
19	SB10	1	--
20	SB8	1	--
21	SB9	1	--
22	SB4	1	--
23	SB13	1	--
24	SB13	1	--
25	SB5	--	1
26	SB11	--	1
27	SB12	--	1
	TOTAL	18 *	9 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

POLES (STATE FURNISHED)

SIGNAL BASE NO.	659.1125 LUMINAIRES UTILITY LED C EACH	SPV.0060.3004 INSTALL POLES TYPE 10 EACH	SPV.0060.3006 INSTALL POLES TYPE 10 SPECIAL EACH	SPV.0060.3011 INSTALL MONOTUBE ARMS 30-FT EACH	SPV.0060.3012 INSTALL MONOTUBE ARMS 35-FT TYPE 9/10 SPEC POLE EACH	SPV.0060.3013 INSTALL MONOTUBE ARMS 45-FT TYPE 9/10 SPEC POLE EACH	SPV.0060.3016 INSTALL LUMINAIRE ARMS STEEL 15-FT EACH
SB3	2	--	1	--	--	1	2
SB5	2	--	1	--	1	--	2
SB9	2	1	--	1	--	--	2
SB13	2	--	1	--	1	--	2
TOTAL	8 *	1 *	3 *	1 *	2 *	1 *	8 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

STH 20 & CTH H/RENAISSANCE BLVD
RACINE COUNTY
CATEGORY 1500
S51-0719

3

3

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.3005 SIGNAL MOUNTING HARDWARE L.S.
STH 20 & CTH H/RENAISSANCE BLVD	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.3005 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
STH 20 & CTH H/RENAISSANCE BLVD	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL
AND INTERSECTION LIGHTING MATERIALS

LOCATION	SPV.0105.3010 TRNSPT TRAFFIC SIGNAL & INTERSECTION LIGHTING MATERIALS L.S.
STH 20 & CTH H/RENAISSANCE BLVD	1
TOTAL	1

EVP DETECTOR HEAD INSTALLATION

LOCATION	SPV.0105.3015 TRNSPT & INSTALL STATE FURN EVP DETECTOR HEADS & CONFIRMATION LIGHTS L.S.
STH 20 & CTH H/RENAISSANCE BLVD	1
TOTAL	1

TEMPORARY INFRARED EVP SYSTEM

LOCATION	SPV.0105.3016 TEMPORARY INFRARED EVP SYSTEM L.S.
STH 20 & CTH H/RENAISSANCE BLVD	1
TOTAL	1

STH 20
RACINE COUNTY
CATEGORY 1500
COMMUNICATIONS

CONDUIT

FROM	TO	671.0132 CONDUIT HDPE 3-DUCT 2-INCH L.F.	671.0232 CONDUIT HDPE DIRECTIONAL BORE 3-DUCT 2-INCH L.F.	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0700.S INSTALL CONDUIT INTO EXISTING ITEM EACH	655.0510 ELECTRICAL WIRE TRAFFIC SIGNALS 12 AWG L.F.
CV101	CB1 (S51-0728)	--	--	20	--	40
CV101	CV102	665	--	--	--	685
CV102	CB1 (S51-0324)	--	--	15	--	35
CV102	FTMS EXPB864	--	--	105	1	125
CV102	I/C PB1	85	--	--	--	105
I/C PB1	I/C PB2	120	--	--	--	140
I/C PB2	CV103	760	--	--	--	780
CV103	CB1 (S51-0727)	--	--	80	--	100
CV103	CV104	890	--	--	--	910
CV104	I/C PB3	620	--	--	--	640
I/C PB3	I/C PB4	110	--	--	--	130
I/C PB4	CV105	125	--	--	--	145
CV105	CB1 (S51-1478)	--	--	15	--	35
CV105	I/C PB5	280	--	--	--	300
I/C PB5	CV106	1060	150	--	--	1230
CV106	I/C PB6	525	--	--	--	545
I/C PB6	I/C PB7	--	55	--	--	75
I/C PB7	EXCV8	855	--	--	1	875
	TOTAL	6095	205	235 *	2 *	6895 *

* QUANTITY SHOWN ELSEWHERE ON PLAN

I/C PULL BOXES & VAULTS

STRUCTURE NO.	LOCATION**	653.0140 PULL BOXES STEEL 24x42-INCH EACH	673.0105 COMMUNICATION VAULT TYPE 1 EACH
CV101	288+52.6, 103.6'LT	--	1
CV102	295+10.3, 93.0'LT	--	1
CV103	304+25.0, 14.4'RT	--	1
CV104	313+14.3, 13.0'RT	--	1
CV105	320+95.0, 86.7'RT	--	1
CV106	335+70.8, 14.0'RT	--	1
I/C PB1	295+94.4, 90.3'LT	1	--
I/C PB2	296+65.7, 2.3'RT	1	--
I/C PB3	319+30.3, 12.9'LT	1	--
I/C PB4	319+72.6, 87.3'RT	1	--
I/C PB5	323+62.9, 14.9'RT	1	--
I/C PB6	340+94.8, 13.1'RT	1	--
I/C PB7	340+98.0, 65.2'RT	1	--
	TOTAL	7 *	6

* QUANTITY SHOWN ELSEWHERE ON PLAN
** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

3

FIELD SYSTEM INTEGRATOR

LOCATION		670.0100.3001 FIELD SYSTEM INTEGRATOR L.S.	670.0200.3001 ITS DOCUMENTATION L.S.	678.0500.3001 COMMUNICATION SYSTEM TESTING L.S.
1033-02-71		1	1	1
	TOTAL	1	1	1

FIBER OPTIC CABLE

FROM	TO	678.0036 INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 36-CT L.F.	SPV.0090.3001 FIBER OPTIC WARNING TAPE L.F.
FTMS EXCV877	CV102	1880	--
CV101	CV102	865	665
CV102	CV103	1225	965
CV103	CV104	1090	890
CV104	CV105	1115	855
CV105	CV106	1720	1490
CV106	EXCV8	1695	1435
CV102	FTMS EXPB864	--	105
CV101	CB1 (S51-0728)	--	20
CV102	CB1 (S51-0324)	--	15
CV103	CB1 (S51-0727)	--	80
CV105	CB1 (S51-1478)	--	15
15% CONTINGENCY		1439	980
	TOTAL	11029	7515

FIBER OPTIC SPLICE

LOCATION		678.0200 FIBER OPTIC SPLICE ENCLOSURE EACH	678.0300 FIBER OPTIC SPLICE EACH
FTMS EXCV877		1	4
CV101		1	4
CV102		1	4
CV103		1	4
CV104		1	4
EXCV8		1	4
	TOTAL	6	24

FIBER OPTIC COMMUNICATIONS EQUIPMENT

LOCATION		678.0600 INSTALL ETHERNET SWITCHES EACH	ST-ST SINGLE MODE FIBER JUMPER 2-CT 4-FEET*** EACH	CAT-5E CABLE 5-FEET*** EACH
CB1 (S51-0728)		1	2	3
CB1 (S51-0324)		1	2	3
CB1 (S51-0727)		1	2	3
CB1 (S51-1478)		1	2	3
CB1 (S51-1306)		1	2	3
	TOTAL	5	10	15

* PAY ITEM INCLUDES INSTALLATION OF BOTH CONTRACTOR FURNISHED AND STATE FURNISHED MATERIALS

*** FOR INFORMATION ONLY

3

STATE FURNISHED MATERIALS SUMMARY (FOR INFORMATION ONLY)

FROM	TO	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT EACH	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT L.F.	ETHERNET SWITCH EACH	FIBER OPTIC CABLE OUTDOOR PLANT 36-CT L.F.
CV101	CB1 (S51-0728)	1	130	1	--
CV102	CB1 (S51-0324)	1	125	1	--
CV103	CB1 (S51-0727)	1	190	1	--
CV105	CB1 (S51-1478)	1	125	1	--
FTMS EXCV877	CV102	--	--	--	1880
CV101	CV102	--	--	--	865
CV102	CV103	--	--	--	1225
CV103	CV104	--	--	--	1090
CV104	CV105	--	--	--	1115
CV105	CV106	--	--	--	1720
CV106	EXCV8	--	--	--	1695
15% CONTINGENCY		--	--	--	1439
	TOTAL	4	570	4	11029

TRANSPORT AND INSTALL STATE FURNISHED FIBER OPTIC COMMUNICATIONS MATERIALS

LOCATION	SPV.0105.3018 TRNSPT & INSTALL STATE FURN FIBER OPTIC CABLE PIGTAIL 8-CT L.S.	SPV.0105.3019 TRNSPT & INSTALL STATE FURN FIBER OPTIC CABLE PIGTAIL 8-CT L.S.	SPV.0105.3020 TRNSPT & INSTALL STATE FURN FIBER OPTIC CABLE PIGTAIL 8-CT L.S.	SPV.0105.3021 TRNSPT & INSTALL STATE FURN FIBER OPTIC CABLE PIGTAIL 8-CT L.S.	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT STATE FURNISHED L.F.
CB1 (S51-0728)	1	--	--	--	130
CB1 (S51-0324)	--	1	--	--	125
CB1 (S51-0727)	--	--	1	--	190
CB1 (S51-1478)	--	--	--	1	125
TOTAL	1	1	1	1	570

MT. PLEASANT SANITARY SEWER ITEMS

CATEGORY	PROJECT	ROADWAY	STRUCTURE #	STATION	OFFSET	SPV.0060.5000 ADJUSTING SANITARY MANHOLE MT. PLEASANT EACH	SPV.0060.5001 RECONSTRUCT SANITARY MANHOLE MT. PLEASANT EACH	EXISTING ELEVATION	PROPOSED ELEVATION	ELEVATION DIFF	COMMENTS
7000	1033-02-71										
		STH 20	11	296+55	68'LT	--	1	764.31	763.00	-1.31	SALVAGE AND RE-USE EXISTING FRAME & COVER
			12	299+87	72'LT	--	1	762.69	764.81	2.12	SALVAGE EXISTING FRAME. NEW COVER SUPPLIED BY MT. PLEASANT*
			13	300+13	99'LT	1	--	764.29	765.13	0.84	SALVAGE AND RE-USE EXISTING FRAME & COVER
			14	305+57	106'LT	--	1	763.33	767.25	3.92	SALVAGE AND RE-USE EXISTING FRAME & COVER
			15	309+44	109'RT	--	1	768.95	766.16	-2.79	SALVAGE AND RE-USE EXISTING FRAME & COVER
					TOTALS	1	4				

* CONTACT BOB BOWERS (262-664-7847) FROM VILLAGE OF MT. PLEASANT SEWER UTILITY FOR DELIVERY OF NEW COVER AND PICK-UP OF OLD COVER.

YORKVILLE SANITARY SEWER ITEMS

CATEGORY	PROJECT	ROADWAY	STRUCTURE #	STATION	OFFSET	SPV.0060.5002 ADJUSTING SANITARY MANHOLE YORKVILLE EACH	SPV.0060.5003 RECONSTRUCT SANITARY MANHOLE YORKVILLE EACH	EXISTING ELEVATION	PROPOSED ELEVATION	ELEVATION DIFF	COMMENTS
8000	1033-02-71										
		STH 20	1	280+12	74'LT	1	--	760.56	761.79	1.23	SALVAGE AND RE-USE EXISTING FRAME & COVER; APPROX. 12" EXISTING RINGS.
			2	281+90	73'LT	--	1	761.46	763.21	1.75	SALVAGE AND RE-USE EXISTING FRAME & COVER; APPROX. 12" EXISTING RINGS.
			3	285+89	73'LT	1	--	766.12	767.19	1.07	SALVAGE AND RE-USE EXISTING FRAME & COVER; NO EXISTING RINGS.
			4	288+09	74'LT	1	--	766.69	768.25	1.56	SALVAGE AND RE-USE EXISTING FRAME & COVER; APPROX. 8" EXISTING RINGS.
			5	288+12	119'RT	--	1	769.38	768.07	-1.31	SALVAGE AND RE-USE EXISTING FRAME & COVER; NO EXISTING RINGS.
			6	291+02	83'LT	1	--	766.12	765.79	-0.33	SALVAGE AND RE-USE EXISTING FRAME & COVER; APPROX. 10" EXISTING RINGS.
			7	295+48	88'LT	--	1	763.96	763.13	-0.83	SALVAGE AND RE-USE EXISTING FRAME & COVER; NO EXISTING RINGS.
					Totals	4	3				

3

YORKVILLE WATER MAIN ITEMS

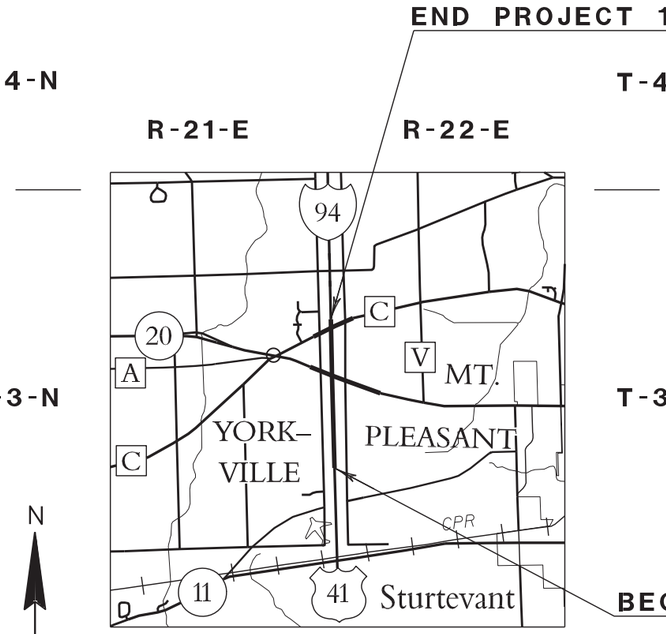
							612.0902.S.0001	SPV.0060.5004	SPV.0060.5005	SPV.0060.5006				
CATEGORY	PROJECT	ROADWAY	HYDRANT NUMBER	VALVE NUMBER	STATION	OFFSET	INSULATION BOARD POLYSTYRENE 4-INCH SY	ADJUSTING WATER VALVES EACH	HYDRANT ASSEMBLY ADJUSTMENT EACH	HYDRANT ASSEMBLY RELOCATION EACH	EXISTING GROUND ELEVATION	PROPOSED GROUND ELEVATION	ELEVATION DIFF	COMMENTS
9000	1033-02-71													
		WFR	H1		2858+47.3	60.4'LT	--	--	--	1	776.46	777.26	0.80	SHORTEN HYDRANT BRANCH AND ELBOW TO THE NORTH
				V1	2858+41.8	63.4'LT	--	1	--	--	--	--	--	--
				V2	2858+80.4	19.0'RT	--	1	--	--	--	--	--	--
			H2		2859+78.9	35.9'RT	--	--	1	--	774.65	776.32	1.67	RAISE VERTICALLY IN SAME LOCATION
				V3	2859+77.3	22.7'RT	--	1	--	--	--	--	--	--
				V4	2859+79.2	16.1'RT	--	1	--	--	--	--	--	--
				V5	2861+20.0	81.3'LT	--	1	--	--	--	--	--	--
			H3		2862+28.8	69.3'LT	--	--	1	--	773.24	773.62	0.38	RAISE VERTICALLY IN SAME LOCATION
			H4		4865+84.9	59.4'LT	--	--	1	--	763.50	765.77	2.27	RAISE VERTICALLY IN SAME LOCATION
				V6	4865+84.9	55.2'LT	--	1	--	--	--	--	--	--
			H5		4867+21.2	43.9'RT	--	--	--	1	763.76	764.36	0.60	EXTEND HYDRANT BRANCH AND ELBOW TO THE EAST
				V7	4867+12.4	32.9'RT	--	1	--	--	--	--	--	--
				V8	4867+19.2	42.3'LT	--	1	--	--	--	--	--	--
		STH 20		V9	275+82.1	80.6'RT	--	1	--	--	--	--	--	VALVE LOCATED IN GRASS AREA
				V10	276+01.9	80.8'RT	--	1	--	--	--	--	--	VALVE LOCATED IN GRASS AREA
					UNDISTRIBUTED		25	--	--	--	--	--	--	--
						Totals	25	10	3	2				

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 1033-02-20
INTERSTATE 94
STH 20 INTERCHANGE
RACINE COUNTY





YORKVILLE MT. PLEASANT
R-21-E R-22-E
RACINE COUNTY

LAYOUT
SCALE 0 1 MILE

THE NOTES, CONVENTIONAL SYMBOLS, AND VARIOUS ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT OF PROJECT 1033-02-20.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT. RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

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".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A **TEMPORARY LIMITED EASEMENT** (TLE) IS A RIGHT FOR CONSTRUCTION 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 NECESSARY OR DESIRABLE. ALL TLE EASEMENTS ARE TO TERMINATE UPON THE COMPLETION OF THIS PROJECT OR ON THE DAY THE HIGHWAY IS OPEN TO THE TRAVELING PUBLIC, WHICHEVER IS LATER.

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 NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
CONVEYANCE OF RIGHTS	CR		
DOCUMENT	DOC.	**CURVE DATA**	
EASEMENT	EASE.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN
REFERENCE LINE	R/L		

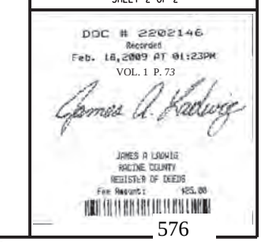
CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	LP (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	●(SET)	PROPERTY LINE	
R/W STANDARD	▲(SET)	LOT & TIE LINES	
SIGN	ISIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWB20	QUARTER LINE	
PARCEL NUMBER	02	SIXTEENTH LINE	
SIGN NUMBER (OFF PREMISE)	21	EXISTING CENTERLINE	
BUILDING		PROPOSED REFERENCE LINE	
		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

TPP NUMBER 1033-02-20-4.01
SHEET 2 OF 2



THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

FILE NAME : J:\projects\d2_r_10330294\040400_rp.dgn PLOT DATE : 10-FEB-2009 11:13 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1033-20-70 STH 20 R/W 1033-02-20 4.00

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.01

THAT PART OF THE NW1/4 OF THE SW1/4, SECTION 18, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES
			NEW	EXISTING	TOTAL	
1	MLG/HWY 20	Fee AR	0.320	0.000	0.320	0.000
2	WOODSTOCK GROUP	Fee AR	0.122	0.000	0.122	0.000
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
108	TOWN OF YORKVILLE	ROR	- -	- -	- -	- -

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
EAST FRONTAGE ROAD	1032-06-29	VARIES	1989

I-94
PI STA 839+47.69
Y 183216.67
X 594019.87
PC STA 834+61.20
PT STA 844+34.17
DELTA 0°19'28"
D 0°02'00"
L 972.97
R 171881.34
LCH 972.97
LCB N 00°17'27" W

A Cast Iron Monument w/ A Brass Cap
Y 181012.86
X 591458.89

SOUTH PROJECT LIMITS

69.75'

STA 817+63.88

N89° 33' 14"E

2578.32'

820 825 830 EXISTING ℄ I-94 835 840

N00°27'11"W ℞ I-94

6'

PI 839+47.69

N89°24'20"E

2563.20'

A Concrete Monument w/ A Brass Cap
Y 183658.74
X 591455.76

STA 844+16.35

81.34'

2652.71'

N00°08'43"W

PC 834+61.20

245'

A Cast Iron Monument w/ A Brass Cap
Y 181033.47
X 594106.88

NO ACCESS, SEE PROJ. I 101-1(3)

A Concrete Monument w/ A Brass Cap
Y 183686.18
X 594100.16

S88°40'22"E

2504.78'

SEE TPP 1033-02-20-4.02

1AP

FRM505 FRM506 FRM507 FRM508 FRM509 FRM510 FRM511 FRM512 FRM513 FRM514 FRM515 FRM516 FRM517 FRM518 FRM519 FRM520 FRM521 FRM522 FRM523 FRM524 FRM525 FRM526 FRM527 FRM528 FRM529 FRM530 FRM531 FRM532 FRM533 FRM534 FRM535 FRM536 FRM537 FRM538 FRM539 FRM540 FRM541 FRM542

PC 3836+42.61

N35°37'26"E

50.0'

3835

3836+42.61

3835+50.00

3837+50.00

PL

L 556.18
R 894.93
LCH 547.27
LCB S 17°49'11" W

PT 3842+36.09

3843+50.00

3840

EAST FRONTAGE ROAD

℞

S05°41'42"E

52.21'

65.21'

STA 3844+00.46

N00°00'55"E

60.02'

A Cast Iron Monument w/ A Brass Cap
Y 183628.16
X 596604.26

163.01'

1784.86'

L 115.26
R 1024.93
LCH 115.20
LCB N 32°24'07" E

L 516.62
R 1014.93
LCH 511.06
LCB N 14°35'52" E

PI 3839+49.28

3842+36.08

SEE TPP 1033-02-20-4.02

594.69'

SEE TPP 1033-02-20-4.02

PARCEL 1
CSM 1301
V 4 P 100

(100) V. 2301 P. 39 DOC. 1437519 PCL. 1

(101) NO RECORDED EASEMENT PCL. 1

(103) V 2301 P 41 DOC. 1437519 PCL. 1

VILLAGE OF MOUNT PLEASANT

NW1/4-SW1/4

EAST FRONTAGE ROAD
PI STA 3839+49.28
Y 183199.84
X 594759.75
PC STA 3836+42.61
PT STA 3842+36.09
DELTA 35°36'31"
D 06°00'00"
L 593.47
R 954.93
LCH 583.97
LCB N 17°49'10" E

T-3-N R-21-E R-22-E R-21-E R-22-E RACINE COUNTY YORKVILLE MT. PLEASANT

SHEET LOCATION

SCALE, FEET
0 100 200

NOTES:
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 2/10/09 Name: Robert Duffek Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 2/10/09 Name: Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.01
SHEET 1 OF 2
AMENDMENT NO:

DOC # 2202146
Recorded
Feb. 18, 2009 AT 01:23PM
VOL. 1 P. 72
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: 105.00

FILE NAME : C:\Users\P\D2\10330200\STH20\CadLinks\040401_rp.dgn PLOT DATE : 10-FEB-2009 11:28 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.01

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.01
AMENDMENT NO: 1

VACATES PARCEL 108 OF TPP 1033-02-20-4.01, RECORDED AS DOCUMENT 2202146.

THAT PART OF THE NW1/4 OF THE SW1/4, SECTION 18, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	R/W REQUIRED ACRES EXISTING	R/W REQUIRED ACRES TOTAL	T.L.E. TEMP. ACRES
1	MLG/HWY 20	Fee AR	0.320	0.000	0.320	0.000
2	WOODSTOCK GROUP	Fee AR	0.122	0.000	0.122	0.000
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	1101-1(3)	VARIES	1956
EAST FRONTAGE ROAD	1032-06-29	VARIES	1989

A Cast Iron Monument
w/ A Brass Cap
Y 181012.86
X 591458.89

N89° 33' 14"E
2578.32'

SOUTH PROJECT LIMITS
69.75'
STA 817+63.88
2652.71'

820 825 830 835 840

EXISTING ℄ I-94
N00°27'11"W ℞ I-94
6'

I-94
PI STA 839+47.69
Y 183216.67
X 594019.87
PC STA 834+61.20
PT STA 844+34.17
DELTA 0°19'28"
D 0°02'00"
L 972.97
R 171881.34
LCH 972.97
LCB N 00°17'27" W

PI 839+47.69
PC 834+61.20
245'
N00°08'43"W

A Concrete Monument
w/ A Brass Cap
Y 183658.74
X 591455.76

2563.20
N89°24'20"E

STA 844+16.35
81.34'

A Concrete Monument
w/ A Brass Cap
Y 183686.18
X 594100.16

S88°40'22"E
2504.78

NO ACCESS, SEE PROJ. 1101-1(3)

SEE TPP
1033-02-20-4.02

A Cast Iron Monument
w/ A Brass Cap
Y 181033.47
X 594106.88

SW1/4-SW1/4

PARCEL 1
CSM 1301
V 4 P 100

(100) V. 2301 P. 39 DOC. 1437519 PCL. 1
(101) NO RECORDED EASEMENT PCL. 1
(103) V 2301 P 39 DOC. 1437519 PCL. 1

NW1/4-SW1/4

1AP
PRM503 PRM504 PRM505 PRM506 PRM507 PRM508 PRM509 PRM510 PRM511 PRM512 PRM513 PRM514 PRM515 PRM516 PRM517 PRM518 PRM519 PRM520 PRM521 PRM522 PRM523 PRM524 PRM525 PRM526 PRM527 PRM528 PRM529 PRM530 PRM531 PRM532 PRM533 PRM534 PRM535 PRM536 PRM537 PRM538 PRM539 PRM540 PRM541 PRM542

PC 3836+42.61
60.00', 50.00'
N35°37'26"E
50'
50'
3835
PL
3836+42.61
3836+50.00
3837+50.00
3838+00.00
3838+42.61
3839+49.28

L 556.18
R 894.93
LCH 547.27
LCB S 17°49'11" W

PT 3842+36.09
60.00'
3843+50.00
60.00'
594.69'
SEE TPP
1033-02-20-4.02

S05°41'42"E
52.21'
65.21'
STA 3844+00.46
60.02'
163.01'
1784.86'

A Cast Iron Monument
w/ A Brass Cap
Y 183628.16
X 596604.26

3840
EAST FRONTAGE ROAD
N00°00'55"E
60'
50'
50'
60'
2
1

L 115.26
R 1024.93
LCH 115.20
LCB N 32°24'07" E

L 516.62
R 1014.93
LCH 511.06
LCB N 14°35'52" E

PI 3839+49.28
3842+36.09
60.00'
SEE TPP
1033-02-20-4.02

EAST FRONTAGE ROAD
PI STA 3839+49.28
Y 183199.84
X 594759.75
PC STA 3836+42.61
PT STA 3842+36.09
DELTA -35°36'31"
D 06°00'00"
L 593.47
R 954.93
LCH 583.97
LCB N 17°49'10" E

T-3-N
R-21-E
R-22-E
YORKVILLE
MT. PLEASANT
RACINE COUNTY
SHEET LOCATION
VILLAGE OF MT. PLEASANT

GN

SCALE, FEET
0 100 200

NOTES:
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11-18-2010 — Name: A E Andersen — Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11-18-2010 — Name: Paul Krause — PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.01
SHEET 1 OF 2
AMENDMENT NO: 1

DOCUMENT # 2269383
RACINE COUNTY REGISTER OF DEEDS
November 24, 2010 4:21 PM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 3
Vol 1 Pg 132

FILE NAME : J:\projects\d2_r_10330294\20\040401A1_rp.dgn
PLOT DATE : 18-NOV-2010 14:20
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.01 A1

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
I-94	DJ 2483	VARIES	1923
STH 20	F065-1(6)	VARIES	1963
EAST FRONTAGE ROAD	1032-06-29	VARIES	1989
EAST FRONTAGE ROAD	CSM 1378	60'	1988
HOSPITALITY COURT	CSM 1983	66'	1997
HOSPITALITY COURT	CSM 1783	66'	1995

I-94
PI STA 839+47.69
Y 183216.67
X 594019.87
PC STA 834+61.20
PT STA 844+34.17
DELTA 0°19'28"
D 0°02'00"
L 972.97
R 171881.34
LCH 972.97
LCB N 00°17'27" W

EAST FRONTAGE ROAD
PI STA 3851+87.15
Y 184457.58
X 594760.09
PC STA 3849+78.70
PT STA 3853+95.51
DELTA 2°59'07"
D 00°42'58"
L 416.81
R 8000.00
LCH 416.76
LCB N 01°28'38" W

EAST FRONTAGE ROAD
PI STA 3856+49.68
Y 184919.59
X 594736.12
PC STA 3855+29.74
PT STA 3857+65.35
DELTA 26°28'10"
D 11°14'04"
L 235.61
R 510.00
LCH 233.52
LCB N 10°15'53" E

CURVE 1
L 204.11
R 483.07
LCH 202.59
LCB N 09°08'04" E

CURVE 2
L 56.47
R 7579.44
LCH 56.47
LCB S 02°45'23" E

CURVE 3
L 367.35
R 7699.44
LCH 367.32
LCB N 01°36'53" W

CURVE 4
L 168.32
R 366.07
LCH 166.85
LCB N 10°18'49" E

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.02

THAT PART OF LOT 1 OF CSM 1983, LOT 1 OF CSM 1378, LOTS 1 AND 2 OF CSM 1627, PARCELS 1 AND 2 OF CSM 1818, AND THAT PART OF THE NW1/4 OF THE NW1/4 AND THE SW1/4 OF THE NW1/4, SECTION 18, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
			R/W REQUIRED ACRES			T.L.E. TEMP. ACRES
PARCEL NUMBER	OWNER	INTEREST REQUIRED	NEW	EXISTING	TOTAL	
1	MLG/HWY 20	Fee AR TLE	0.028	0.000	0.028	0.062
2	WOODSTOCK GROUP	Fee AR	0.030	0.000	0.030	0.000
3	HILIFE PROPERTIES	Fee AR TLE	0.037	0.000	0.037	0.088
4	RACINE HOTEL LLC	TLE	0.000	0.000	0.000	0.037
5	MC DONALDS	Fee AR TLE	0.007	0.000	0.007	0.223
6	CHARNICK LLC	Fee AR TLE	0.162	0.000	0.162	0.003
7	SHAH	Fee AR TLE	0.135	0.000	0.135	0.083
8	B&G REALTY	AR TLE	0.000	0.000	0.000	0.111
9	KWIK TRIP INC.	Fee AR TLE	0.147	0.000	0.147	0.460
10	CONVENIENCE STORE INV.	Fee TLE	0.174	0.000	0.174	0.155
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
108	TOWN OF YORKVILLE	ROR	- -	- -	- -	- -
109	VILLAGE OF MT. PLEASANT	ROR	- -	- -	- -	- -

A Concrete Monument w/ A Brass Cap Y 183658.74 X 591455.76

A Concrete Monument w/ A Brass Cap Y 183686.18 X 594100.16

A Concrete Monument w/ A Brass Cap Y 186347.14 X 594090.84

A Cast Iron Monument w/ A Brass Cap Y 183628.16 X 596604.26

STA 844+16.35

STA 294+10.29 STH 20 = STA 862+37.60 R I-94

STA 294+96.54

SEE TPP 1033-02-20-4.06

SEE TPP 1030-02-20-4.01

SEE TPP 1033-02-20-4.03

EXISTING ℄ I-94

℞ I-94

2660.98' COR. TO COR. N00°12'02"W

℞ NORTH BOUND EXIT RAMP

NW1/4-NW1/4

SW1/4-NW1/4

VILLAGE OF MT. PLEASANT

PARCEL 1

PARCEL 2

CSM 1818 V 5 P 534

CSM 1627 V 4 P 973

LOT 1 CSM 1378

LOT 2

LOT 1 CSM 1783 V 5 P 431

LOT 1 CSM 1983 V 6 P 61

HOSPITALITY COURT

℞ EAST FRONTAGE ROAD

ACCESS BY DOC.1344160

NO ACCESS, SEE PROJ. 1032-06-29

NO ACCESS BY CSM

25' ACCESS EASE.

TLE SLOPES AND DRIVES

TLE SLOPES

TLE DRIVE

1/16 LINE

REBAR IP

DETAIL NOT TO SCALE

DETAILS NOT TO SCALE

STA 303+05.91 STH 20 = STA 3858+95.98 E FR

SHEET LOCATION

YORKVILLE T-3-N R-21-E
MT. PLEASANT T-3-N R-22-E
RACINE COUNTY

SCALE, FEET
0 100 200

GN

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

(100) V. 2301 P. 39 DOC. 1437519 PCL. 1, 3, 4
V. 1954 P. 558 DOC. 1278847 PCL. 5
NO RECORDED EASEMENT PCL. 9,10

(101) NO RECORDED EASEMENT PCL. 1,3,4,9,10

(103) V. 2301 P. 41 DOC. 1437519 PCL. 1, 3, 4

(108) V. 4 P. 307 DOC. 1267827 PCL. 5
V. 5 P. 534 DOC. 1527180 PCL. 9

(109) DOC. 1969693 PCL. 1

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 3-18-09 Robert A Dreffs
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 3-18-09 Paul Krause
Name Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.02
AMENDMENT NO:

DOC # 2207205
Recorded
Mar. 27, 2009 AT 03:33PM
VOL. 1 P. 74
JAMES A. LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: 25.00

FILE NAME : J:\projects\d2_r_10330294\040402_rp.dgn
APPRAISAL PLAT DATE : 02-19-09
PLOT DATE : 24-MAR-2009 08:01
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.02

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
I-94	DJ 2483	VARIES	1923
STH 20	F065-1(6)	VARIES	1963
EAST FRONTAGE ROAD	1032-06-29	VARIES	1989
EAST FRONTAGE ROAD	CSM 1378	60'	1988
HOSPITALITY COURT	CSM 1983	66'	1997
HOSPITALITY COURT	CSM 1783	66'	1995

I-94
PI STA 839+47.69
Y 183216.67
X 594019.87
PC STA 834+61.20
PT STA 844+34.17
DELTA 0°19'28"
D 0°02'00"
L 972.97
R 171881.34
LCH 972.97
LCB N 00°17'27" W

EAST FRONTAGE ROAD
PI STA 3851+87.15
Y 184457.58
X 594760.09
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PT STA 3853+95.51
DELTA 2°59'07"
D 00°42'58"
L 416.81
R 8000.00
LCH 416.76
LCB N 01°28'38" W

EAST FRONTAGE ROAD
PI STA 3856+49.68
Y 184919.59
X 594736.12
PC STA 3855+29.74
PT STA 3857+65.35
DELTA 26°28'10"
D 11°14'04"
L 235.61
R 510.00
LCH 233.52
LCB N 10°15'53" E

CURVE 1
L 204.11
R 483.07
LCH 202.59
LCB N 09°08'04" E

CURVE 2
L 56.47
R 7579.44
LCH 56.47
LCB S 02°45'23" E

CURVE 3
L 367.35
R 7699.44
LCH 367.32
LCB N 01°36'53" W

CURVE 4
L 168.32
R 366.07
LCH 166.85
LCB N 10°18'49" E

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.02 AMENDMENT NO: 1

ADDS UTILITY AGREEMENT NUMBER 209 AND PARCEL 107, AMENDS PARCELS 101, 103, 108, 109, AND PARCEL 10 IN THE SCHEDULE OF TPP 1033-02-20-4.02, RECORDED AS DOCUMENT 2207205.

THAT PART OF LOT 1 OF CSM 1983, LOT 1 OF CSM 1378, LOTS 1 AND 2 OF CSM 1627, PARCELS 1 AND 2 OF CSM 1818, AND THAT PART OF THE NW1/4 OF THE NW1/4 AND THE SW1/4 OF THE NW1/4, SECTION 18, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

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SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLYAND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES
1	MLG/HWY 20	Fee AR TLE	0.028	0.000	0.028	0.062
2	WOODSTOCK GROUP	Fee AR	0.030	0.000	0.030	0.000
3	HILIFE PROPERTIES	Fee AR TLE	0.037	0.000	0.037	0.088
4	RACINE HOTEL LLC	TLE	0.000	0.000	0.000	0.037
5	MC DONALDS	Fee AR TLE	0.007	0.000	0.007	0.223
6	CHARNICK LLC	Fee AR TLE	0.162	0.000	0.162	0.003
7	SHAH	Fee AR TLE	0.135	0.000	0.135	0.083
8	B&G REALTY	AR TLE	0.000	0.000	0.000	0.111
9	KWIK TRIP INC.	Fee AR TLE	0.147	0.000	0.147	0.460
10	CONVENIENCE STORE INV.	Fee AR TLE	0.174	0.000	0.174	0.155
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
107	TIME WARNER CABLE	ROR	- -	- -	- -	- -
108	TOWN OF YORKVILLE SEWER	ROR	- -	- -	- -	- -
109	VILLAGE OF MT. PLEASANT SANITARY	ROR	- -	- -	- -	- -
UA209	VILLAGE OF MT. PLEASANT SANITARY	- -	- -	- -	- -	- -

(100) V. 2301 P. 39 DOC. 1437519
PCL. 1, 3, 4
V. 1954 P. 558 DOC. 1278847
PCL. 5
NO RECORDED EASEMENT
PCL. 9, 10

(101) NO RECORDED EASEMENT
PCL. 1,3

(103) V. 2301 P. 39 DOC. 1437519
PCL. 1, 3, 4
NO RECORDED EASEMENT
PCL. 10

(107) NO RECORDED EASEMENT
PCL. 4

(108) V. 1655 P. 991 DOC. 1111817
PCL. 1, 5, 7, 8

(109) DOC. 1969693
PCL. 1
CSM 1378 V. 4 P. 307 DOC. 1267827
PCL. 5
CSM 1818 V. 5 P. 534 DOC. 1527180
PCL. 8, 9
NO RECORDED EASEMENT
PCL. 10

NOTES:
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT. BY SE REGION DOT SURVEY.
FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
DATE: 11-18-2010 — Name: A.E. Andersen — Title:
THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:
DATE: 11-18-2010 — Name: PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.02
AMENDMENT NO: 1

DOCUMENT # 2269384
RACINE COUNTY REGISTER OF DEEDS
November 24, 2010 4:22 PM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

SCALE, FEET
0 100 200

FILE NAME : J:\projects\d2_r_10330294\20\040402A1_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 18-NOV-2010 14:21 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.02A1

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.03

THAT PART OF THE SE1/4 OF THE SE1/4 AND THE NE1/4 OF THE SE1/4, SECTION 18, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
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SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES
			NEW	EXISTING	TOTAL	
1	MLG/HWY 20	Fee	0.078	0.000	0.078	0.000
11	MT. PLEASANT GROUP LLC	Fee	0.105	0.000	0.105	0.000
12	HENRY J. KUIPER	Fee TLE	0.459	0.000	0.459	0.157
39	MT. PLEASANT GROUP LLC	Fee	0.111	0.000	0.111	0.000
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
109	VILLAGE OF MT. PLEASANT	ROR	- -	- -	- -	- -

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
STH 20	F065-1(6)	VARIES	1963
TOWN ROAD	CSM 1171	66'	1986

A Cast Iron Monument w/ A Brass Cap
Y 186275.68
X 596599.43

T 3 N, R 22 E: 7, 7, 18, 18

SEE TPP 1033-02-20-4.04

SEE TPP 1033-02-20-4.02

NE1/4-SE1/4

SE1/4-SE1/4

TLE SLOPES

NO ACCESS, SEE PROJ. 1032-06-29

WIDTH VARIES

ORIGINAL STH 20 ℄ (1963)

℄ STH 20

TOWN ROAD

OUTLOT 1

OUTLOT 2

LOT 1
CSM 1171
VOL 3 PAGE 432

LOT 1
CSM 1656
V 5 P 73

VILLAGE

MT. PLEASANT

1/16 LINE

PL

PC 315+88.05
PT 326+73.03
DELTA -10°50'59"
D 0°59'60"
L 1084.97
R 5729.62
LCH 1083.35
LCB S 71°47'50" E

CURVE 1
L 632.35
R 5729.62
LCH 632.03
LCB S 69°32'03" E

STH 20
PISTA 321+32.17
Y 184417.44
X 596509.19

EAST PROJECT LIMITS

105.63'

STA 322+20.40

114.46'

671.91'

1755.52'

N00°06'17"W

N00°13'07"W

2504.77'
S88°40'22"E

ACCESS BY DOC. 1269031 V. 1936 P. 578 AND DOC. 1588896 V. 795 P. 580

DOC. 1329633 V. 2050 P. 613

(100) V. 1578 P. 413 DOC. 1079202 PCL. 11

(101) V. 1579 P. 121 DOC. 1079400 PCL. 11

(103) V. 2312 P. 135 DOC. 1441715 PCL. 12

(109) DOC. 1969693 PCL. 1
DOC. 1969690 PCL. 11

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

A Concrete Monument w/ A Brass Cap
Y 183686.18
X 594100.16

T 3 N, R 21 E: 13, 18, 13, 18

A Cast Iron Monument w/ A Brass Cap
Y 183628.16
X 596604.26

T 3 N, R 22 E: 18, 18, 18, 18

GN

SCALE, FEET
0 100 200

R-21-E R-22-E

SHEET LOCATION

T-3-N T-3-N

YORKVILLE R-21-E MT. PLEASANT R-22-E

RACINE COUNTY

NOTES:
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 3-18-09 Robert D Duffek
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 3-18-09 Paul Krause
Name Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.03
AMENDMENT NO:

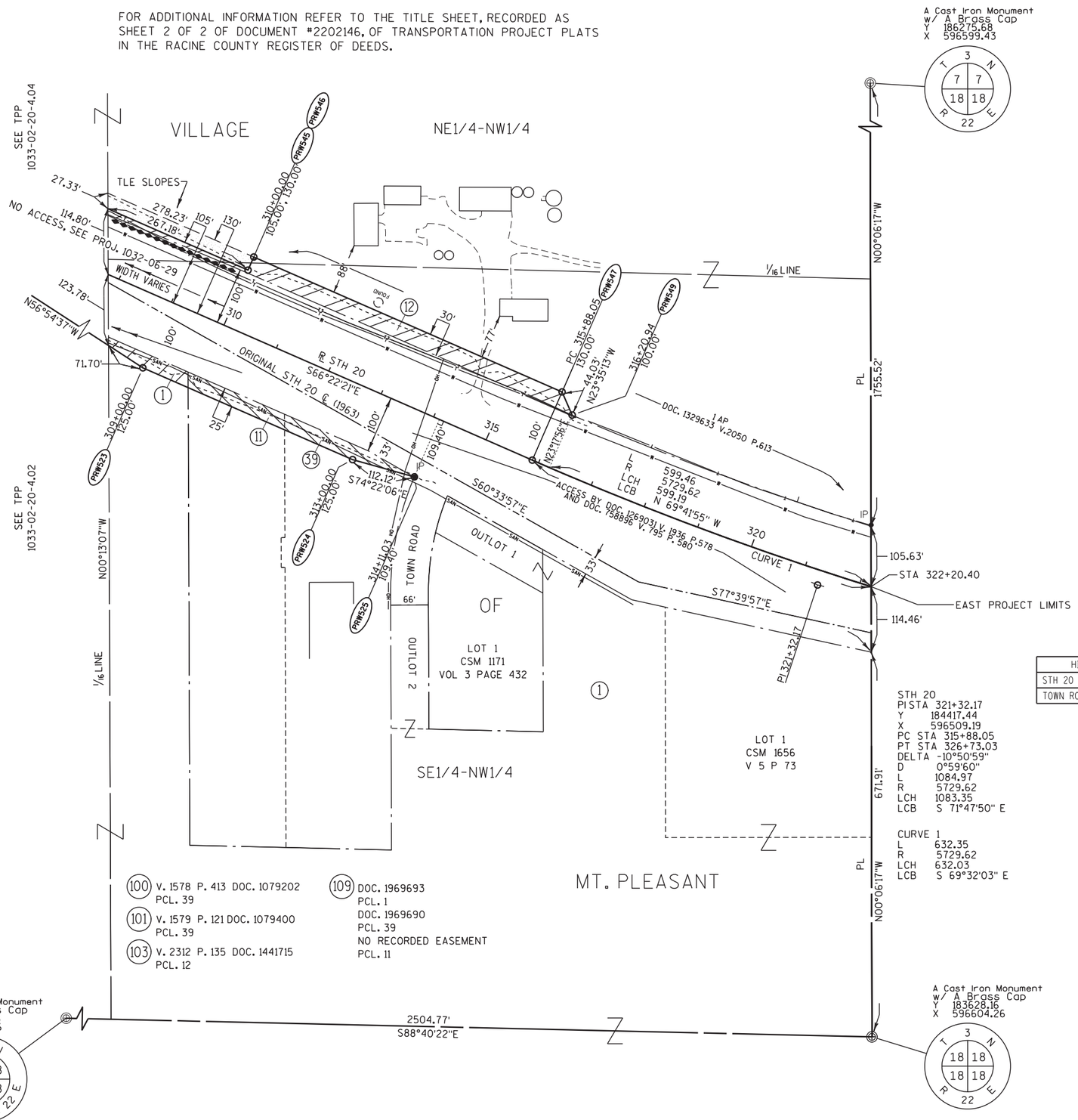
DOC # 2207206
Recorded
Mar. 27, 2009 AT 03:37PM
VOL. 1 P. 75
James A Ladwig
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: 125.00

4

4

FILE NAME : J:\projects\d2_r_10330294\040403_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 17-MAR-2009 13:07
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.03

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.



TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.03 AMENDMENT NO: 1

ADDS UTILITY AGREEMENT NUMBER 210 AND AMENDS PARCELS 100, 101, AND 109 OF TPP 1033-02-20-4.03, RECORDED AS DOCUMENT 2207206.

THAT PART OF THE SE1/4 OF THE NW1/4 AND THE NE1/4 OF THE NW1/4, SECTION 18, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

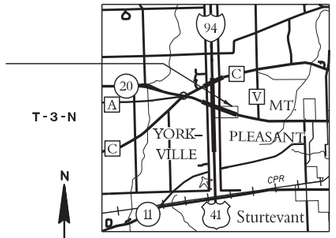
RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLYAND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES
1	MLG/HWY 20	Fee	0.078	0.000	0.078	0.000
11	MT. PLEASANT GROUP LLC	Fee	0.105	0.000	0.105	0.000
12	HENRY J. KUIPER	Fee TLE	0.459	0.000	0.459	0.157
39	MT. PLEASANT GROUP LLC	Fee	0.111	0.000	0.111	0.000
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
109	VILLAGE OF MT. PLEASANT SANITARY	ROR	- -	- -	- -	- -
UA210	RACINE WATER UTILITY	- -	- -	- -	- -	- -

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
STH 20	F065-1(6)	VARIES	1963
TOWN ROAD	CSM 1171	66'	1986



GN

SCALE, FEET
0 100 200

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT. BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11-18-2010 — Name: OE Andersen — Title:

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11-18-2010 — Name: PAUL KRAUSE — Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.03
AMENDMENT NO: 1

DOCUMENT # 2269385
RACINE COUNTY REGISTER OF DEEDS
November 24, 2010 4:22 PM
James A. Ladwig
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amounts 12.00
Pages 1
Vol 1 Pg

FILE NAME : J:\projects\d2_r_10330294\20\040403A1_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 18-NOV-2010 14:22
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.03A1

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.04

THAT PART OF LOT 1 OF CSM 1993, LOT 1 OF CSM 1536 AND THAT PART OF THE NE1/4 OF THE NW1/4 AND THE NW1/4 OF THE NW1/4, SECTION 18, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

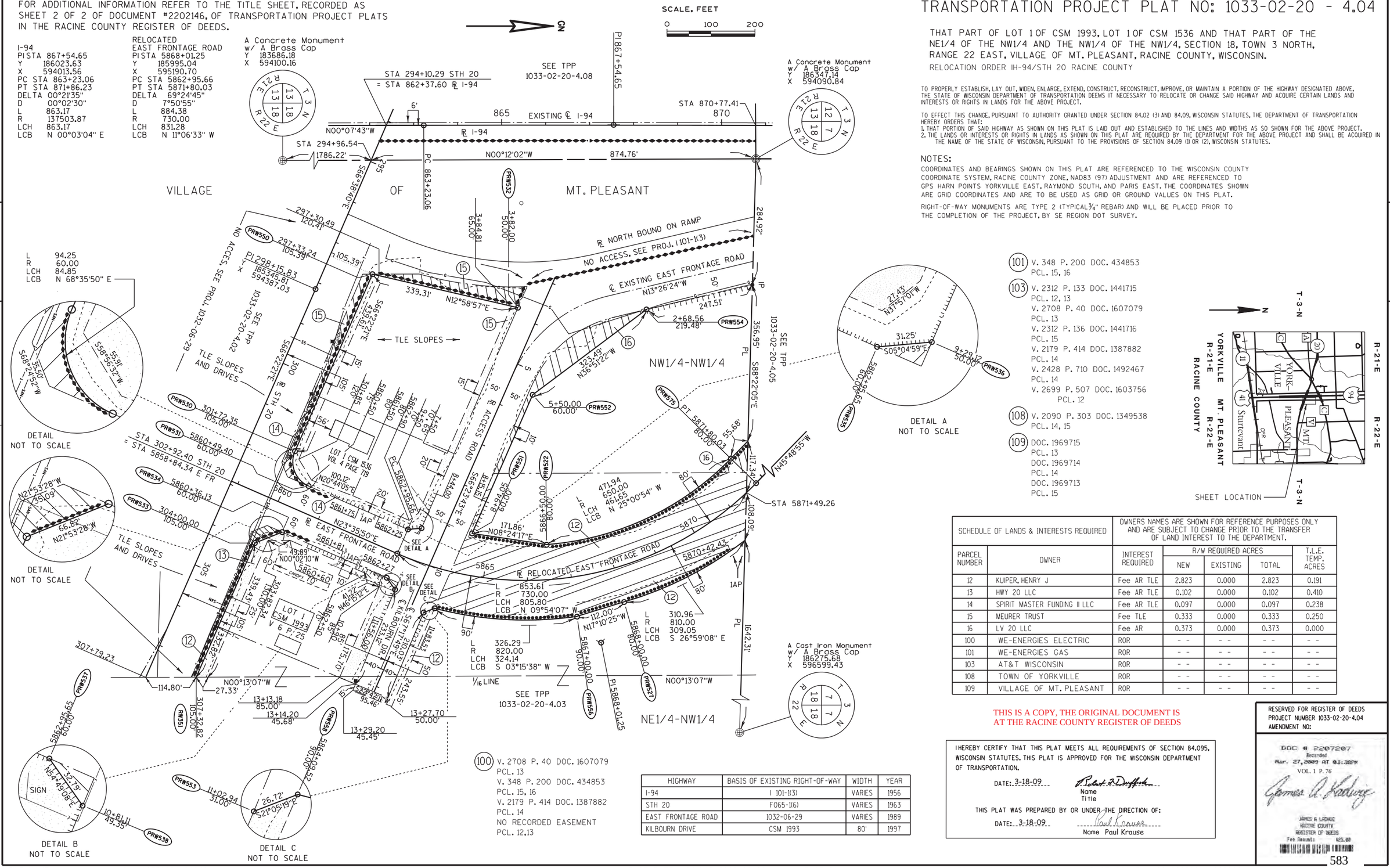
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
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NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.



(101) V. 348 P. 200 DOC. 434853
PCL. 15, 16

(103) V. 2312 P. 133 DOC. 1441715
PCL. 12, 13
V. 2708 P. 40 DOC. 1607079
PCL. 13
V. 2312 P. 136 DOC. 1441716
PCL. 15
V. 2179 P. 414 DOC. 1387882
PCL. 14
V. 2428 P. 710 DOC. 1492467
PCL. 14
V. 2699 P. 507 DOC. 1603756
PCL. 12

(108) V. 2090 P. 303 DOC. 1349538
PCL. 14, 15

(109) DOC. 1969715
PCL. 13
DOC. 1969714
PCL. 14
DOC. 1969713
PCL. 15

(100) V. 2708 P. 40 DOC. 1607079
PCL. 13
V. 348 P. 200 DOC. 434853
PCL. 15, 16
V. 2179 P. 414 DOC. 1387882
PCL. 14
NO RECORDED EASEMENT
PCL. 12,13

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
STH 20	F065-1(6)	VARIES	1963
EAST FRONTAGE ROAD	1032-06-29	VARIES	1989
KILBOURN DRIVE	CSM 1993	80'	1997

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES
12	KUIPER, HENRY J	Fee AR TLE	2.823	0.000	2.823	0.191
13	HWY 20 LLC	Fee AR TLE	0.102	0.000	0.102	0.410
14	SPIRIT MASTER FUNDING II LLC	Fee AR TLE	0.097	0.000	0.097	0.238
15	MEURER TRUST	Fee TLE	0.333	0.000	0.333	0.250
16	LV 20 LLC	Fee AR	0.373	0.000	0.373	0.000
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
108	TOWN OF YORKVILLE	ROR	- -	- -	- -	- -
109	VILLAGE OF MT. PLEASANT	ROR	- -	- -	- -	- -

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 3-18-09 R. Robert Zoellick
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 3-18-09 Paul Krause
Name Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.04
AMENDMENT NO:

DOC # 2207207
Recorded
Mar. 27, 2009 AT 03:38PM
VOL. 1 P. 76
James A. Ladwig
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: 425.00

FILE NAME : J:\projects\d2_r_10330294\040404_rp.dgn
APPRAISAL PLAT DATE : 02-26-09
PLOT DATE : 24-MAR-2009 08:02
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.04

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.04 AMENDMENT NO: 1

AMENDS PARCELS 13, 14, 100, 101 & ADDS PARCEL 112 OF TPP 1033-02-20-4.04, RECORDED AS DOCUMENT 2207207.

THAT PART OF LOT 1 OF CSM 1993, LOT 1 OF CSM 1536 AND THAT PART OF THE NE1/4 OF THE NW1/4 AND THE NW1/4 OF THE NW1/4, SECTION 18, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

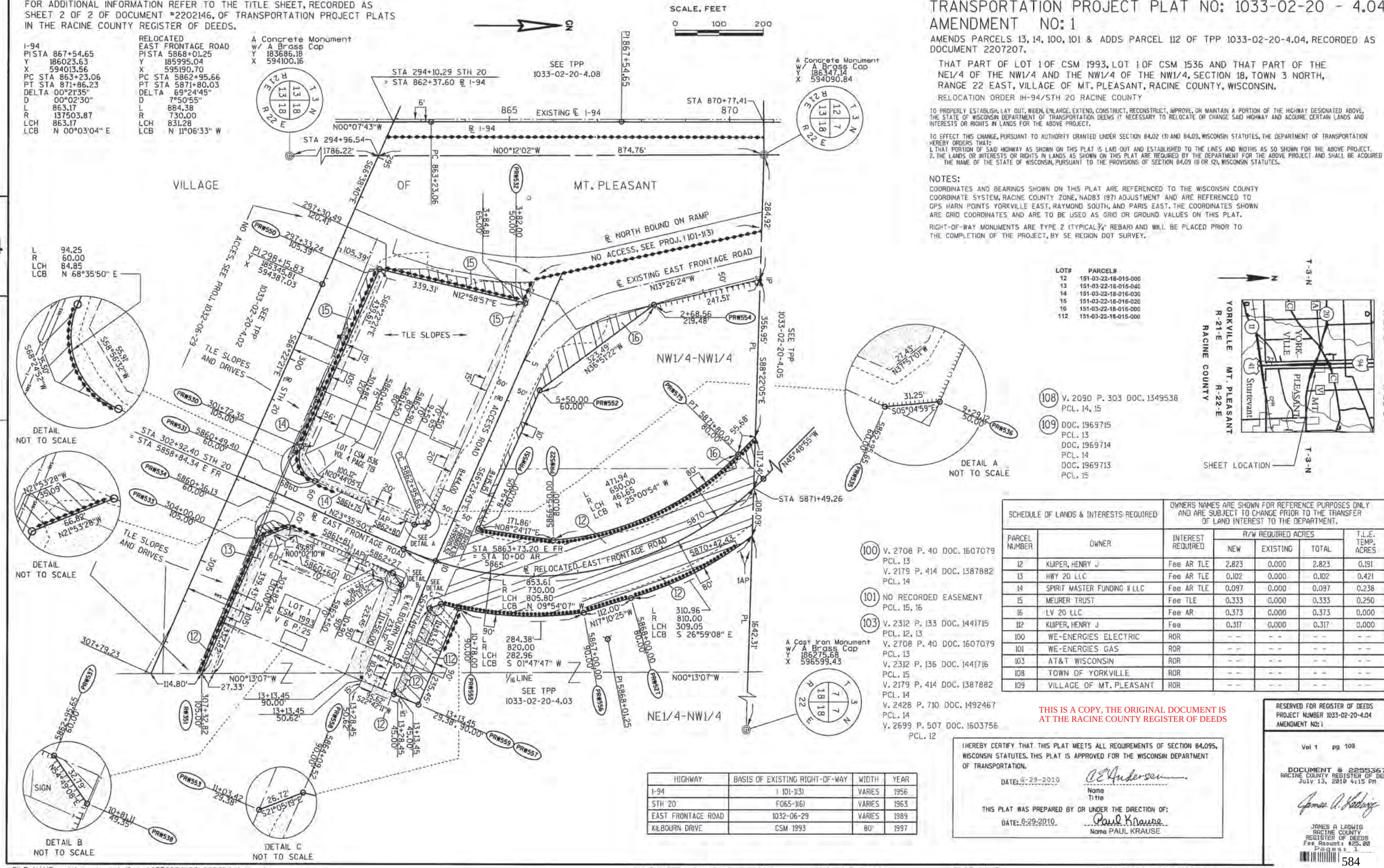
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

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NOTES:

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RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.



LOT#	PARCEL#
12	151-03-22-18-015-000
13	151-03-22-18-015-040
14	151-03-22-18-016-030
15	151-03-22-18-016-020
16	151-03-22-18-016-000
112	151-03-22-18-015-000

(108) V. 2090 P. 303 DOC. 1349538 PCL. 14, 15

(109) DOC. 1969715 PCL. 13 DOC. 1969714 PCL. 14 DOC. 1969713 PCL. 15

(100) V. 2708 P. 40 DOC. 1607079 PCL. 13 V. 2179 P. 414 DOC. 1387882 PCL. 14

(101) NO RECORDED EASEMENT PCL. 15, 16

(103) V. 2312 P. 133 DOC. 1441715 PCL. 12, 13 V. 2708 P. 40 DOC. 1607079 PCL. 13 V. 2312 P. 136 DOC. 1441716 PCL. 15 V. 2179 P. 414 DOC. 1387882 PCL. 14 V. 2428 P. 710 DOC. 1492467 PCL. 14 V. 2699 P. 507 DOC. 1603756 PCL. 12

SCHEDULE OF LANDS & INTERESTS REQUIRED			OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.			
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES
12	KUIPER, HENRY J	Fee AR TLE	2.823	0.000	2.823	0.191
13	HWY 20 LLC	Fee AR TLE	0.102	0.000	0.102	0.421
14	SPIRIT MASTER FUNDING II LLC	Fee AR TLE	0.097	0.000	0.097	0.238
15	MEURER TRUST	Fee TLE	0.333	0.000	0.333	0.250
16	LV 20 LLC	Fee AR	0.373	0.000	0.373	0.000
112	KUIPER, HENRY J	Fee	0.317	0.000	0.317	0.000
100	WE-ENERGIES ELECTRIC	ROR	--	--	--	--
101	WE-ENERGIES GAS	ROR	--	--	--	--
103	AT&T WISCONSIN	ROR	--	--	--	--
108	TOWN OF YORKVILLE	ROR	--	--	--	--
109	VILLAGE OF MT. PLEASANT	ROR	--	--	--	--

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-143	VARIES	1956
STH 20	F065-1(6)	VARIES	1963
EAST FRONTAGE ROAD	1032-06-29	VARIES	1989
KILBOURN DRIVE	CSM 1993	80'	1997

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6-29-2010 — Name / Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6-29-2010 — Name PAUL KRAUSE

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.04
AMENDMENT NO: 1

Vol 1 pg 109

DOCUMENT # 2255367
RACINE COUNTY REGISTER OF DEEDS
July 13, 2010 4:15 PM

JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

FILE NAME : J:\projects\d2_r_10330294\20\040404A1_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 29-JUN-2010 07:10 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.04

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.04 AMENDMENT NO: 2

ADDS UTILITY AGREEMENT NUMBERS 209 & 210 TO TPP 1033-02-20-4.04 AMENDMENT NO. 1, RECORDED AS DOCUMENT 2255367.

THAT PART OF LOT 1 OF CSM 1993, LOT 1 OF CSM 1536 AND THAT PART OF THE NE1/4 OF THE NW1/4 AND THE NW1/4 OF THE NW1/4, SECTION 18, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

I-94
PI STA 867+54.65
Y 186023.63
X 594013.56
PC STA 863+23.06
PT STA 871+86.23
DELTA 00°21'35"
D 00°02'30"
L 863.17
R 137503.87
LCH 863.17
LCB N 00°03'04" E

RELOCATED EAST FRONTAGE ROAD
PI STA 5868+01.25
Y 185995.04
X 595190.70
PC STA 5862+95.66
PT STA 5871+80.03
DELTA 69°24'45"
D 7°50'55"
L 884.38
R 730.00
LCH 831.28
LCB N 11°06'33" W

A Concrete Monument w/ A Brass Cap
Y 183686.18
X 594100.16

A Concrete Monument w/ A Brass Cap
Y 186347.14
X 594090.84

SCALE, FEET
0 100 200

GN

SEE TPP 1033-02-20-4.08

STA 294+10.29 STH 20 = STA 862+37.60 ℄ I-94

EXISTING ℄ I-94

PI 867+54.65

STA 870+77.41

N00°07'43"W

STA 294+96.54

1786.22'

℄ I-94

N00°12'02"W 874.76'

PC 863+23.06

VILLAGE OF MT. PLEASANT

℄ NORTH BOUND ON RAMP

NO ACCESS, SEE PROJ. 1101-1(3)

℄ EXISTING EAST FRONTAGE ROAD

N13°26'24"W 247.51'

IP

SEE TPP 1033-02-20-4.05

PL S88°22'05"E 356.95'

NW1/4-NW1/4

TLE SLOPES

TLE SLOPES AND DRIVES

SEE TPP 1033-02-20-4.02

℄ STH 20

℄ ACCESS ROAD

LOT 1 CSM 1536 VOL 4 PAGE 119

LOT 1 CSM 1993 V 6 P. 25

℄ EAST FRONTAGE ROAD

℄ KILBOURN DR.

℄ RELOCATED EAST FRONTAGE ROAD

STA 5863+73.20 E FR = STA 10+00 AR 5865

STA 5871+49.26

NO ACCESS, SEE PROJ. 1032-06-29

NE1/4-NW1/4

1/16 LINE

SEE TPP 1033-02-20-4.03

NO0°13'07"W 27.33'

114.80'

307+79.23

DETAIL NOT TO SCALE

DETAIL A NOT TO SCALE

DETAIL B NOT TO SCALE

DETAIL C NOT TO SCALE

DETAIL NOT TO SCALE

DETAIL NOT TO SCALE

A Cast Iron Monument w/ A Brass Cap
Y 186275.68
X 596599.43

SHEET LOCATION

T-3-N
R-21-E
R-22-E
YORKVILLE
MT. PLEASANT
RACINE COUNTY

(100) V. 2708 P. 40 DOC. 1607079
PCL. 13
V. 2179 P. 414 DOC. 1387882
PCL. 14

(101) NO RECORDED EASEMENT
PCL. 15, 16

(103) V. 2699 P. 507 DOC. 1603756
PCL. 12
V. 2312 P. 133 DOC. 1441715
PCL. 12, 13
V. 2708 P. 40 DOC. 1607079
PCL. 13
V. 2179 P. 414 DOC. 1387882
PCL. 14
V. 2428 P. 710 DOC. 1492467
PCL. 14
V. 2312 P. 136 DOC. 1441716
PCL. 15

(108) V. 2090 P. 303 DOC. 1349538
PCL. 14, 15

(109) DOC. 1969715
PCL. 13
DOC. 1969714
PCL. 14
DOC. 1969713
PCL. 15

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	R/W REQUIRED ACRES EXISTING	R/W REQUIRED ACRES TOTAL	T.L.E. TEMP. ACRES
12	HENRY J. KUIPER	Fee AR TLE	2.823	0.000	2.823	0.191
13	HWY 20 LLC	Fee AR TLE	0.102	0.000	0.102	0.421
14	SPIRIT MASTER FUNDING II LLC	Fee AR TLE	0.097	0.000	0.097	0.238
15	MEURER TRUST	Fee TLE	0.333	0.000	0.333	0.250
16	LV 20 LLC	Fee AR	0.373	0.000	0.373	0.000
112	HENRY J. KUIPER	Fee	0.317	0.000	0.317	0.000
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
108	TOWN OF YORKVILLE SEWER	ROR	- -	- -	- -	- -
109	VILLAGE OF MT. PLEASANT SANITARY	ROR	- -	- -	- -	- -
UA209	VILLAGE OF MT. PLEASANT SANITARY	- -	- -	- -	- -	- -
UA210	RACINE WATER UTILITY	- -	- -	- -	- -	- -

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
STH 20	F065-1(6)	VARIES	1963
EAST FRONTAGE ROAD	1032-06-29	VARIES	1989
KILBOURN DRIVE	CSM 1993	80'	1997

NOTES:
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11-18-2010 — D E Anderson — Name, Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11-17-2010 — Paul Krause — Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.04
AMENDMENT NO: 2

DOCUMENT # 2269386
RACINE COUNTY REGISTER OF DEEDS
November 24, 2010 4:22 PM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: 125.00
Pages: 1
Vol Pg

FILE NAME : J:\projects\d2_r_10330294\20\040404A2_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 18-NOV-2010 06:55
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.04A2

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.05

THAT PART OF THE NW1/4 OF THE SW1/4 AND THE SW1/4 OF THE SW1/4 OF SECTION 7, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES
17	I-94 ASSOCIATES	Fee, AR, TLE	6.348	0.000	6.348	0.445

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
STH 20	1032-06-29	VARIES	1989
CTH C	I 101-1(3)	140'	1956

I-94
PI STA 867+54.65
Y 186023.63
X 594013.56
PC STA 863+23.06
PT STA 871+86.23
DELTA 0°21'35"
D 0°02'30"
L 863.17
R 137503.87
LCH 863.17
LCB N 0°03'04" E

SEE TPP 1033-02-20-4.08

I-94
PI STA 889+89.14
Y 188258.10
X 594022.57
PC STA 885+49.61
PT STA 894+28.64
DELTA 00°52'44"
D 00°06'00"
L 879.03
R 57301.78
LCH 879.02
LCB N 00°12'31" W

A Concrete Monument w/ A Brass Cap
Y 186347.14
X 594090.84

A Concrete Monument w/ A DOT Aluminum Cap
Y 188984.80
X 594080.88

STA 67+39.93 CTH C = STA 890+63.57 ℄ I-94

STA 69+85.95 CTH C = STA 5894+98.38 E FR

STA 870+77.41 · STA 68+09.00 · STA 897+15.05 · STA 5900+59.61

PI 5882+61.25 · PC 885+49.61 · PT 894+28.64 · PI 5898+11.28

℄ I-94 N00°13'51"E · N00°12'59"W · NO ACCESS SEE PROJ. I 101-1(3) · 1451.87' · 2637.68'

NORTH PROJECT LIMITS · N00°07'52"W · 126.94'

℄ NORTH BOUND ON RAMP · NO ACCESS SEE PROJ. 1036-06-29 · ℄ EXISTING EAST FRONTAGE ROAD · TLE SLOPES

PI 5880+19.44 · 80.00' · 99' · 65' · 50' · 637.71' · N13°26'24"W · 284.92 (285.25)

PI 5889+89.14 · PC 5882+26.70 · N19°51'51"W · N09°38'30"W 404.75'

N13°28'52"E · 263.18' · N23°19'34"E · PT 5888+66.69 · 55.00'

5878+34.61 · 321.39' · 15.49' · 5874+87.01 · 310.69' · 453.28' · S09°09'55"E · 5878+34.61 · 80.00'

L 1278.13 · R 1235.00 · LCH 1221.85 · LCB N 16°10'02" W

L 528.80' · R 1380.00 · LCH 525.57 · LCB S 34°50'17" E

RELOCATED EAST FRONTAGE ROAD 5880 · 5885 · 5890 · 5895 · 5900

1/16 LINE · 2 AP · 1 AP

PRW576 · 5875+21.30 · 80.00' · PL S88°22'05"E 341.13' · 285.58' · 80' · 5875 · N45°48'55"W · N48°19'56"W · 341.60 · PC 5875+21.31 · 65.00' · PRW580

PT 5871+80.03 · 117.34' · STA 5871+49.22 · 108.08' · 5871+80.03 · 80.00' · PRW578

L 110.72 · R 810.00 · LCH 110.63 · LCB N 41°53'58" W

PL 1642.13 · 2509.60'

PRW582 · 5888+00.00 · 100.00' · 5892+78.74 · 5892+28.70

L 335.55 · R 620.00 · LCH 331.47 · LCB N 2°01'24" W

PRW587 · 5894+02.02 · 110.00' · PRW586

RELOCATED EAST FRONTAGE ROAD
PI STA 5898+11.28
Y 188730.26
X 594137.46
PC STA 5895+67.78
PT STA 5900+49.94
DELTA 19°43'58"
D 04°05'33"
L 482.16
R 1400.00
LCH 479.78
LCB N 09°59'51" W

65.38' · 71+05.72 · 75.00' · 71+75.00 · 65.00', 75.00' · TLE SLOPES · PC 5895+67.78 · 131.73' · N55°40'44"W · N65°08'10"E · R/ CTH C

75.00' · 72+50.00 · 75' · 65' · NO ACCESS SEE PROJ. I 101-1(3) · PC 73+77.04 · 74+98.00 · 75 · 74+98.00

N88°35'16"W 2487.79'

CTH C
PI STA 79+24.87
Y 188830.77
X 595095.67
PC STA 73+77.04
PT STA 84+67.53
DELTA 13°37'52"
D 1°15'00"
L 1090.49
R 4583.65
LCH 1087.92
LCB N 71°57'06" E

A Cast Iron Monument w/ A Brass Cap
Y 188923.50
X 596567.92

A Cast Iron Monument w/ A Brass Cap
Y 186275.68
X 596599.43

VILLAGE OF MT. PLEASANT

SW1/4-SW1/4

NW1/4-SW1/4

RELOCATED EAST FRONTAGE ROAD
PI STA 5868+01.25
Y 185995.04
X 595190.70
PC STA 5862+95.66
PT STA 5871+80.03
DELTA 69°24'45"
D 7°50'55"
L 884.38
R 730.00
LCH 831.28
LCB N 11°06'33" W

RELOCATED EAST FRONTAGE ROAD
PI STA 5882+61.25
Y 187101.00
X 594052.80
PC STA 5875+21.31
PT STA 5888+66.69
DELTA 59°17'46"
D 4°24'27"
L 1345.39
R 1300.00
LCH 1286.14
LCB N 16°10'02" W

RELOCATED EAST FRONTAGE ROAD
PI STA 5892+78.74
Y 188221.26
X 594321.36
PC STA 5891+26.01
PT STA 5894+22.81
DELTA 33°20'41"
D 11°14'04"
L 296.81
R 510.00
LCH 292.64
LCB N 03°11'30" W

T-3-N · R-21-E · R-22-E · YORKVILLE · MT PLEASANT · RACINE COUNTY · SHEET LOCATION

SCALE, FEET
0 100 200

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 3-18-09 — Robert J. Duffek — Name — Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 3-18-09 — Paul Krause — Name Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.05
AMENDMENT NO:

DOC # 2207206
Recorded
Mar. 27, 2009 at 03:40PM
VOL. 1 P. 77
JAMES A. LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00

FILE NAME : J:\projects\d2_r_10330294\040405_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 17-MAR-2009 13:27
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.05

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.06

THAT PART OF PARCEL 4 OF CSM 2008, PARCELS 1 AND 2 OF CSM 1950, PARCELS 1 AND 2 OF CSM 2154, PARCELS 1 AND 2 OF CSM 2604, PARCELS 1 AND 2 OF CSM2150, PARCELS 1 AND 2 OF CSM 2044, AND THAT PART OF THE NE1/4 OF THE NE1/4 AND THE SE1/4 OF THE NE1/4 OF SECTION 13, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES
18	SIERRA PROPERTIES LLC	Fee AR	0.328	0.000	0.328	0.000
19	REICO INVESTMENTS INC.	Fee AR TLE	0.286	0.000	0.286	.0310
20	WILLKOMM DEVELOPMENT LLP	Fee AR TLE	0.252	0.000	0.252	0.768
21	SNIKNEJ CO.	Fee AR	0.564	0.000	0.564	0.000
22	MOSHI HOTELS	Fee AR	0.026	0.000	0.026	0.005
23	MASKAL LLC	Fee AR	0.023	0.000	0.023	0.008
24	XYLON OF WISCONSIN INC.	AR TLE	0.000	0.000	0.000	0.083
25	TRIPLE H	AR TLE	0.000	0.000	0.000	0.106
26	SPOKES LLC	TLE	0.000	0.000	0.000	0.015
27	RACINE COUNTY CONVENTION CENTER	TLE	0.000	0.000	0.000	0.036
36	SNIKNEJ CO.	Fee AR	0.522	0.000	0.522	0.000
37	SNIKNEJ CO.	TLE	0.000	0.000	0.000	0.060
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
107	TIME WARNER CABLE	ROR	- -	- -	- -	- -
108	TOWN OF YORKVILLE	ROR	- -	- -	- -	- -

(100) V. 2683 P. 372 DOC. 1597577 PCL. 20
V. 2251 P. 323 DOC. 1417354 PCL. 20
V. 2670 P. 833 DOC. 1592809 PCL. 20
V. 2435 P. 793 DOC. 1495719 PCL. 22, 23
V. 2674 P. 417 DOC. 1594130 PCL. 24, 36
DOC. 1923809 PCL. 24
V. 2422 P. 248 DOC. 1489365 PCL. 21
NO RECORDED EASEMENT 18, 19, 20, 25

(101) NO RECORDED EASEMENT PCL. 18

(107) NO RECORDED EASEMENT PCL. 19,20,22,23,24,25,36

(103) V. 3010 P. 829 DOC. 1720105 PCL. 20
V. 2435 P. 793 DOC. 1495719 PCL. 22, 23
V. 2312 P. 152 DOC. 1442099 PCL. 25, 26, 27, 37
V. 2674 P. 417 DOC. 1594130 PCL. 24, 36
V. 2422 P. 248 DOC. 1489365 PCL. 21
V. 2362 P. 959 DOC. 1462193 PCL. 25
V. 2998 P. 592 DOC. 1715613 PCL. 25
V. 2998 P. 595 DOC. 1715614 PCL. 27
V. 2428 P. 702 DOC. 1492463 PCL. 27
V. 2251 P. 323 DOC. 1417354 PCL. 20

(108) V. 2474 P. 431 DOC. 1512697 PCL. 19, 20
V. 2051 P. 183 DOC. 1329937 PCL. 20
V. 2474 P. 428 DOC. 1512696 PCL. 22, 23
V. 3033 P. 412 DOC. 1728759 PCL. 24
V. 2474 P. 428 DOC. 1512698 PCL. 21, 24, 25, 36
DOC. 2069463 PCL. 21
V. 3014 P. 681 DOC. 1721604 PCL. 36
V. 3018 P. 001 DOC. 1722912 PCL. 27
V. 3014 P. 681 DOC. 1721605 PCL. 26, 37

A Concrete Monument w/ A Brass Cap
Y 183658.74
X 591455.76

SHEET LOCATION — N

R-21-E T-3-N R-22-E
YORKVILLE MT. PLEASANT
R-21-E R-22-E
RACINE COUNTY

NE1/4-NE1/4

TOWN OF YORKVILLE

SE1/4-NE1/4

CURVE 1		CURVE 2	
L	396.97	L	358.21
R	1356.39	R	1472.39
LCH	395.55	LCH	357.32
LCB	N 13°32'19" E	LCB	N 14°57'05" E

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
STH 20	2341-01-21	VARIES	1966
STH 20	1032-06-29	VARIES	1989

1AP* EXISTING SHARED ACCESS DRIVEWAY TO REMAIN.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

A Concrete Monument w/ A Brass Cap
Y 183686.18
X 594100.16

I-94
PI STA 839+47.69
Y 183216.67
X 594019.87
PC STA 834+61.20
PT STA 844+34.17
DELTA 0°19'28"
D 0°02'00"
L 972.97
R 171881.34
LCH 972.97
LCB N 00°17'27" W

WEST FRONTAGE ROAD
PI STA 2840+78.93
Y 183978.02
X 593881.13
PC STA 2840+09.08
PT STA 2841+18.89
DELTA 89°52'47"
D 81°51'04"
L 109.81
R 70.00
LCH 98.89
LCB N 45°14'10" W

WEST FRONTAGE ROAD
PI STA 2859+97.38
Y 185264.44
X 593219.32
PC STA 2856+03.11
PT STA 2863+80.62
DELTA 23°26'47"
D 3°00'56"
L 777.51
R 1900.00
LCH 772.10
LCB N 11°38'17" E

A Concrete Monument w/ A Brass Cap
Y 186347.14
X 594090.84

SCALE, FEET
0 100 200

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
DATE: 3-18-09 Robert J. Duffhues
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:
DATE: 3-18-09 Paul Krause
Name Paul Krause

NOTES:
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.06
AMENDMENT NO:

DOC # 2207209
Recorded
Mar. 27, 2009 AT 03:42PM
VOL. 1 P. 78
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: 125.00

FILE NAME : J:\projects\d2_r_10330294\040406_rp.dgn
APPRAISAL PLAT DATE : 02-19-09
PLOT DATE : 24-MAR-2009 08:03
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.06

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.06 AMENDMENT NO. 1

ADDS UTILITY AGREEMENT NUMBERS 206 & 208 AND PARCELS 106 & 111, AMENDS PARCELS 100, 101, 103, 107, & 108, AND PARCELS 22, 23, & 19 IN THE SCHEDULE OF TPP 1033-02-20-4.06 RECORDED AS DOCUMENT 2207209.

THAT PART OF PARCEL 4 OF CSM 2008, PARCELS 1 AND 2 OF CSM 1950, PARCELS 1 AND 2OF CSM 2154, PARCELS 1 AND 2 OF CSM 2604, PARCELS 1 AND 2 OF CSM2150, PARCELS 1 AND 2 OF CSM 2044, AND THAT PART OF THE NE1/4 OF THE NE1/4 AND THE SE1/4 OFTHE NE1/4 OF SECTION 13, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE,RACINE COUNTY, WISCONSIN

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
			R/W REQUIRED ACRES			T.L.E.
PARCEL NUMBER	OWNER	INTEREST REQUIRED	NEW	EXISTING	TOTAL	TEMP. ACRES
18	SIERRA PROPERTIES LLC	Fee AR	0.328	0.000	0.328	0.000
19	REICO INVESTMENTS INC.	Fee AR TLE	0.286	0.000	0.286	0.310
20	WILLKOMM DEVELOPMENT LLP	Fee AR TLE	0.252	0.000	0.252	0.768
21	SNIKNEJ CO.	Fee AR	0.564	0.000	0.564	0.000
22	MOSHI HOTELS	Fee AR TLE	0.026	0.000	0.026	0.005
23	MASKAL LLC	Fee AR TLE	0.023	0.000	0.023	0.008
24	XYLON OF WISCONSIN INC.	AR TLE	0.000	0.000	0.000	0.083
25	TRIPLE H	AR TLE	0.000	0.000	0.000	0.106
26	SPOKES LLC	TLE	0.000	0.000	0.000	0.015
27	RACINE COUNTY CONVENTION CENTER	TLE	0.000	0.000	0.000	0.036
36	SNIKNEJ CO.	Fee AR	0.522	0.000	0.522	0.000
37	SNIKNEJ CO.	TLE	0.000	0.000	0.000	0.060
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
106	TOWN OF YORKVILLE WATER	ROR	- -	- -	- -	- -
107	TIME WARNER CABLE	ROR	- -	- -	- -	- -
108	TOWN OF YORKVILLE SEWER	ROR	- -	- -	- -	- -
111	TOWN OF YORKVILLE STORM	ROR	- -	- -	- -	- -
UA206	TOWN OF YORKVILLE WATER	- -	- -	- -	- -	- -
UA208	TOWN OF YORKVILLE SEWER	- -	- -	- -	- -	- -

(100) CSM 1686 V. 5 P. 162 DOC. 1458973 PCL. 18
V. 2683 P. 372 DOC. 1597577 PCL. 20
V. 2251 P. 323 DOC. 1417354 PCL. 20
V. 2670 P. 833 DOC. 1592809 PCL. 20
V. 2422 P. 248 DOC. 1489365 PCL. 21
V. 2435 P. 793 DOC. 1495719 PCL. 22, 23
V. 2674 P. 417 DOC. 1594130 PCL. 24, 36
DOC. 1923809 PCL. 24
NO RECORDED EASEMENT 19, 20, 25

(101) CSM 1686 V. 5 P. 162 DOC. 1458973 PCL. 18

(103) V. 3010 P. 829 DOC. 1720105 PCL. 20
V. 2251 P. 323 DOC. 1417354 PCL. 20
V. 2422 P. 248 DOC. 1489365 PCL. 21
V. 2435 P. 793 DOC. 1495719 PCL. 22, 23
V. 2674 P. 417 DOC. 1594130 PCL. 24, 36
V. 2362 P. 959 DOC. 1462193 PCL. 25
V. 2998 P. 592 DOC. 1715613 PCL. 25
V. 2312 P. 152 DOC. 1442099 PCL. 25, 26, 27, 37
V. 2998 P. 595 DOC. 1715614 PCL. 27
V. 2428 P. 702 DOC. 1492463 PCL. 27, 37

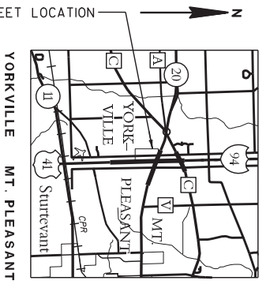
(106) V. 2474 P. 431 DOC. 1512697 PCL. 19, 20
DOC. 2069463 PCL. 21
V. 2474 P. 428 DOC. 1512698 PCL. 21, 24, 25, 36
V. 2474 P. 428 DOC. 1512696 PCL. 22, 23
V. 3014 P. 681 DOC. 1721605 PCL. 26, 37
V. 3018 P. 001 DOC. 1722912 PCL. 27

(107) NO RECORDED EASEMENT PCL. 19,20,22,23,36

(108) V. 1582 P. 31 DOC. 108311 PCL. 20

(111) V. 3033 P. 412 DOC. 1728759 PCL. 24
V. 3014 P. 681 DOC. 1721604 PCL. 36

SHEET LOCATION



NE1/4-NE1/4

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
STH 20	2341-01-21	VARIES	1966
STH 20	1032-06-29	VARIES	1989

1AP* EXISTING SHARED ACCESS DRIVEWAY TO REMAIN.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

A Concrete Monument w/ A Brass Cap
Y 183686.18
X 594100.16

A Concrete Monument w/ A Brass Cap
Y 183658.74
X 591455.76

I-94
PI STA 839+47.69
Y 183216.67
X 594019.87
PC STA 834+61.20
PT STA 844+34.17
DELTA 0°19'28"
D 0°02'00"
L 972.97
R 171881.34
LCH 972.97
LCB N 00°17'27" W

WEST FRONTAGE ROAD
PI STA 2840+78.93
Y 183978.02
X 593881.13
PC STA 2840+09.08
PT STA 2841+18.89
DELTA 89°52'47"
D 81°51'04"
L 109.81
R 70.00
LCH 98.89
LCB N 45°14'10" W

WEST FRONTAGE ROAD
PI STA 2859+97.38
Y 185264.44
X 593219.32
PC STA 2856+03.11
PT STA 2863+80.62
DELTA 23°26'47"
D 3°00'56"
L 777.51
R 1900.00
LCH 772.10
LCB N 11°38'17" E

A Concrete Monument w/ A Brass Cap
Y 186347.14
X 594090.84

CURVE 1		CURVE 2	
L	396.97	L	358.21
R	1356.39	R	1472.39
LCH	395.55	LCH	357.32
LCB	N 13°32'19" E	LCB	N 14°57'05" E

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

NOTES:
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

SCALE, FEET
0 100 200

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
DATE: 11-18-2010 A E Andersen
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:
DATE: 11-18-2010 Paul Krause
Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.06
AMENDMENT NO: 1

DOCUMENT # 2269387
RACINE COUNTY REGISTER OF DEEDS
November 24, 2010 4:22 PM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1 Pg

FILE NAME : J:\projects\d2_r_10330294\20\040406A1_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 18-NOV-2010 14:23
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.06A1

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

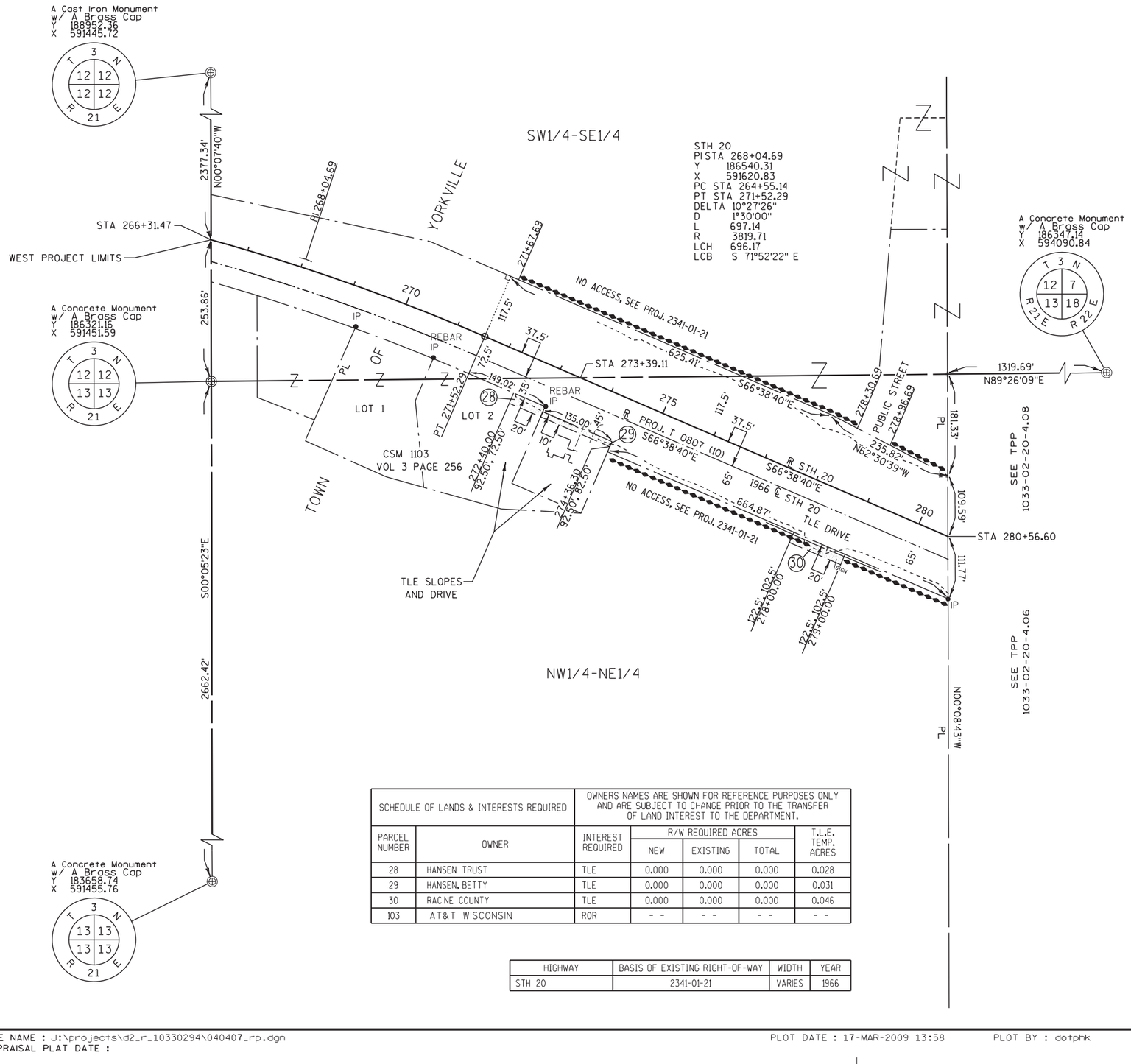
TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.07

THAT PART OF THE NW1/4 OF THE NE1/4 OF SECTION 13, AND THAT PART OF THE SW1/4 OF THE SE1/4 OF SECTION 12, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



103 V. 2392 P. 056 DOC. 1475579
PCL. 30

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES
			NEW	EXISTING	TOTAL	
28	HANSEN TRUST	TLE	0.000	0.000	0.000	0.028
29	HANSEN, BETTY	TLE	0.000	0.000	0.000	0.031
30	RACINE COUNTY	TLE	0.000	0.000	0.000	0.046
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
STH 20	2341-01-21	VARIES	1966

YORKVILLE R-21-E MT. PLEASANT R-22-E
RACINE COUNTY

NOTES:
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 3-18-09 Robert J. Duffield
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 3-18-09 Paul Krause
Name Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.07
AMENDMENT NO:

DOC # 2207210
Recorded
Mar. 27, 2009 AT 03:43PM
VOL. 1 P. 79
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: 125.00

FILE NAME : J:\projects\d2_r_10330294\040407_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 17-MAR-2009 13:58
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.07

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.07 AMENDMENT NO: 1

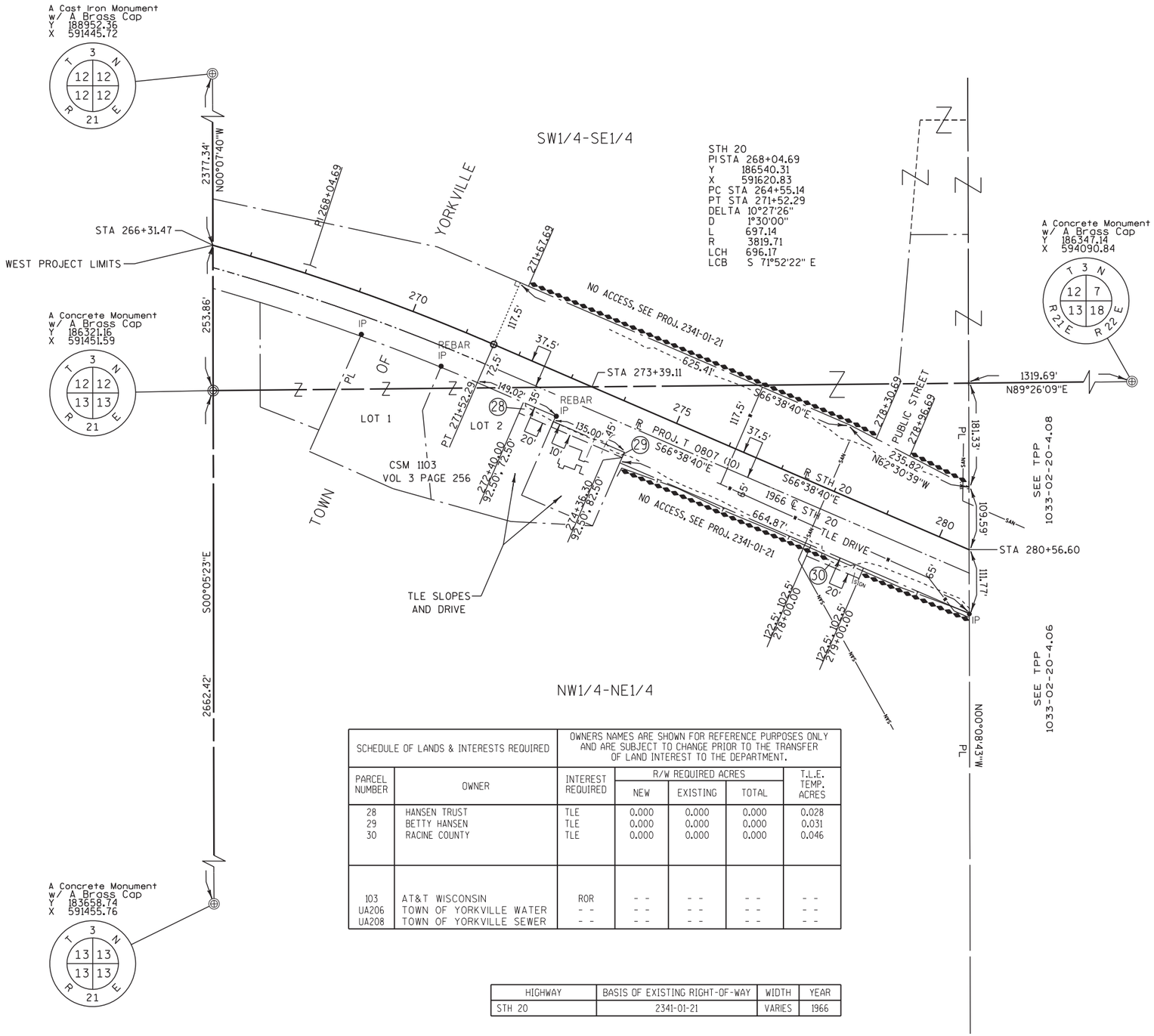
AMENDS TPP 1033-02-20-4.07, RECORDED AS DOCUMENT 2207210, BY ADDING UTILITY AGREEMENT NUMBERS 206 & 208.

THAT PART OF THE NW1/4 OF THE NE1/4 OF SECTION 13, AND THAT PART OF THE SW1/4 OF THE SE1/4 OF SECTION 12, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

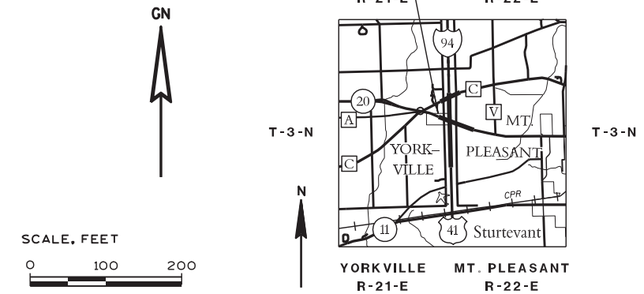
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES
			NEW	EXISTING	TOTAL	
28	HANSEN TRUST	TLE	0.000	0.000	0.000	0.028
29	BETTY HANSEN	TLE	0.000	0.000	0.000	0.031
30	RACINE COUNTY	TLE	0.000	0.000	0.000	0.046
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
UA206	TOWN OF YORKVILLE WATER	- -	- -	- -	- -	- -
UA208	TOWN OF YORKVILLE SEWER	- -	- -	- -	- -	- -

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
STH 20	2341-01-21	VARIES	1966



NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11-18-2010 — Name / Title: DE Andersen

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11-17-2010 — Name: PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.07
AMENDMENT NO: 1

DOCUMENT # 2269388
RACINE COUNTY REGISTER OF DEEDS
November 24, 2010 4:22 PM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: 105.00
Pages: 1
Vol Pg

FILE NAME : J:\projects\d2_r_10330294\20\040407A1_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 18-NOV-2010 06:57
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.07A1

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

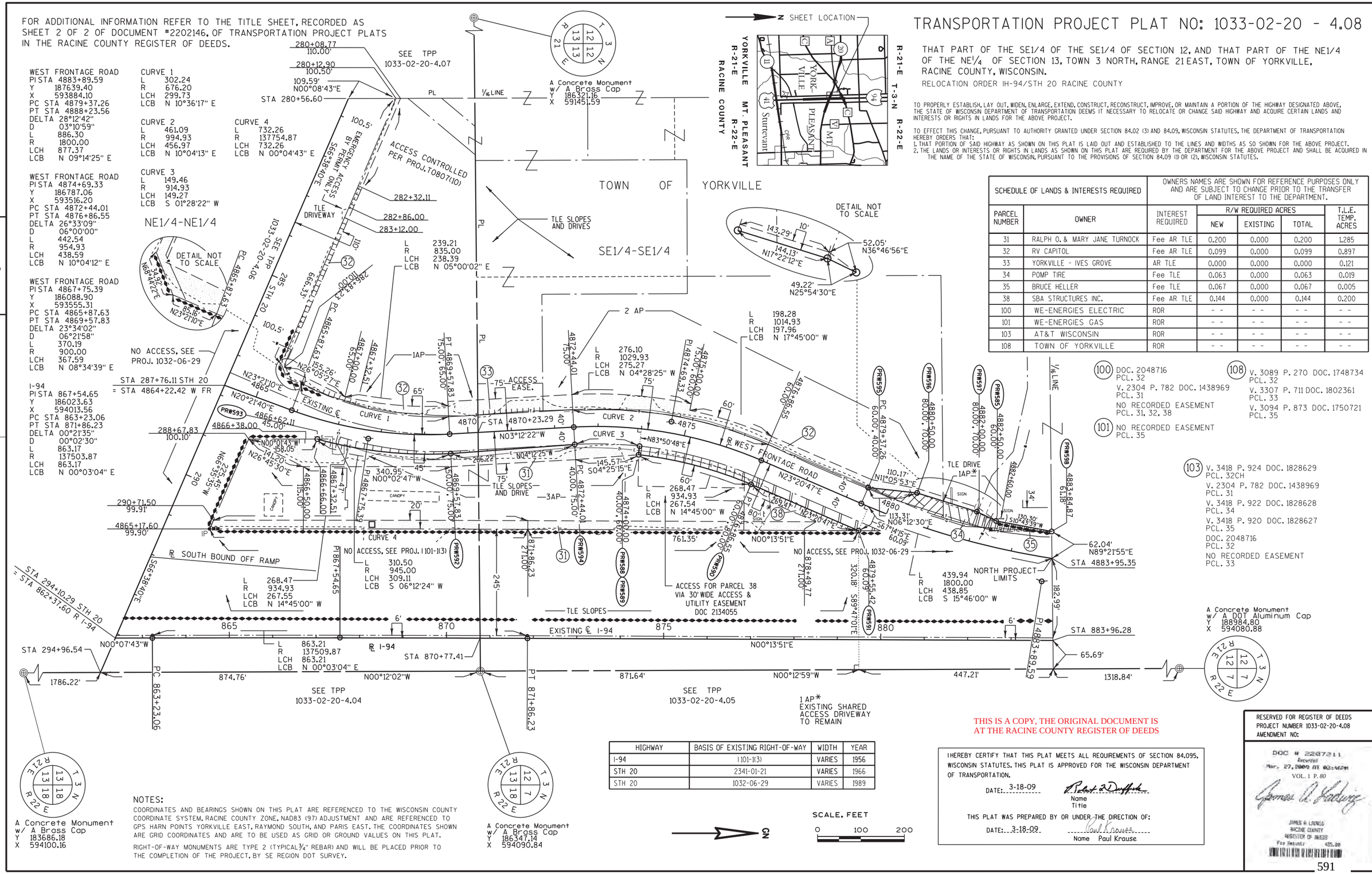
TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.08

THAT PART OF THE SE1/4 OF THE SE1/4 OF SECTION 12, AND THAT PART OF THE NE1/4 OF THE NE1/4 OF SECTION 13, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES
			NEW	EXISTING	TOTAL	
31	RALPH O. & MARY JANE TURNOCK	Fee AR TLE	0.200	0.000	0.200	1.285
32	RV CAPITOL	Fee AR TLE	0.099	0.000	0.099	0.897
33	YORKVILLE - IVES GROVE	AR TLE	0.000	0.000	0.000	0.121
34	POMP TIRE	Fee TLE	0.063	0.000	0.063	0.019
35	BRUCE HELLER	Fee TLE	0.067	0.000	0.067	0.005
38	SBA STRUCTURES INC.	Fee AR TLE	0.144	0.000	0.144	0.200
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
108	TOWN OF YORKVILLE	ROR	- -	- -	- -	- -

(100) DOC. 2048716 PCL. 32
V. 2304 P. 782 DOC. 1438969 PCL. 31
NO RECORDED EASEMENT PCL. 31, 32, 38

(101) NO RECORDED EASEMENT PCL. 35

(103) V. 3418 P. 924 DOC. 1828629 PCL. 32CH
V. 2304 P. 782 DOC. 1438969 PCL. 31
V. 3418 P. 922 DOC. 1828628 PCL. 34
V. 3418 P. 920 DOC. 1828627 PCL. 35
DOC. 2048716 PCL. 32
NO RECORDED EASEMENT PCL. 33

(108) V. 3089 P. 270 DOC. 1748734 PCL. 32
V. 3307 P. 711 DOC. 1802361 PCL. 33
V. 3094 P. 873 DOC. 1750721 PCL. 35

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	1101-1(3)	VARIES	1956
STH 20	2341-01-21	VARIES	1966
STH 20	1032-06-29	VARIES	1989

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 3-18-09 Robert J. Duffhues
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 3-18-09 Paul Krause
Name Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.08
AMENDMENT NO:

DOC # 2207211
Recorded
Mar. 27, 2009 AT 02:46PM
VOL. 1 P. 80
James A. Ladwig
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Receipt 425.00

FILE NAME : J:\projects\d2_r_10330294\040408_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 17-MAR-2009 14:01
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-20-70 STH 20 R/W 1033-02-20 4.08

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.08 AMENDMENT NO: 1

AMENDS PARCELS 31, 100, & 103 OF TPP 1033-02-20-4.08, RECORDED AS DOCUMENT 2207211.

THAT PART OF THE SE1/4 OF THE SE1/4 OF SECTION 12, AND THAT PART OF THE NE1/4 OF THE NE1/4 OF SECTION 13, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES
			NEW	EXISTING	TOTAL	
31	RALPH O. & MARY JANE TURNOCK	Fee AR TLE	0.200	0.000	0.200	1.213
32	RV CAPITOL	Fee AR TLE	0.099	0.000	0.099	0.897
33	YORKVILLE - IVES GROVE	AR TLE	0.000	0.000	0.000	0.121
34	POMP TIRE	Fee TLE	0.063	0.000	0.063	0.019
35	BRUCE HELLER	Fee TLE	0.067	0.000	0.067	0.005
38	SBA STRUCTURES INC.	Fee AR TLE	0.144	0.000	0.144	0.200
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
108	TOWN OF YORKVILLE	ROR	- -	- -	- -	- -

SHEET LOCATION

YORKVILLE MT. PLEASANT RACINE COUNTY R-21-E R-22-E T-3-N

WEST FRONTAGE ROAD
P.I. STA 4883+89.59
Y 187639.40
X 593884.10
PC STA 4879+37.26
PT STA 4888+23.56
DELTA 28°12'42"
D 03°10'59"
L 886.30
R 1800.00
LCH 877.37
LCB N 09°14'25" E

WEST FRONTAGE ROAD
P.I. STA 4874+69.33
Y 186787.06
X 593516.20
PC STA 4872+44.01
PT STA 4876+86.55
DELTA 26°33'09"
D 06°00'00"
L 442.54
R 954.93
LCH 438.59
LCB N 10°04'12" E

WEST FRONTAGE ROAD
P.I. STA 4867+75.39
Y 186088.90
X 593555.31
PC STA 4865+87.63
PT STA 4869+57.83
DELTA 23°34'02"
D 06°21'58"
L 370.19
R 900.00
LCH 367.59
LCB N 08°34'39" E

I-94
P.I. STA 867+54.65
Y 186023.63
X 594013.56
PC STA 863+23.06
PT STA 871+86.23
DELTA 00°21'35"
D 00°02'30"
L 863.17
R 137503.87
LCH 863.17
LCB N 00°03'04" E

CURVE 1
L 302.24
R 676.20
LCH 299.73
LCB N 10°36'17" E

CURVE 2
L 461.09
R 994.93
LCH 456.97
LCB N 10°04'13" E

CURVE 3
L 149.46
R 914.93
LCH 149.27
LCB S 01°28'22" W

CURVE 4
L 732.26
R 137754.87
LCH 732.26
LCB N 00°04'43" E

280+08.77
110.00'
280+12.90
100.50'
109.59'
N00°08'43"E
STA 280+56.60
SEE TPP 1033-02-20-4.07
A Concrete Monument w/ A Brass Cap
Y 186321.16
X 59145.59
1/16 LINE
PL
TOWN OF YORKVILLE
ACCESS CONTROLLED PER PROJ.1080711(0)
EMERGENCY ACCESS ONLY
S56°38'40"E
100.5'
TLE DRIVEWAY
282+32.11
282+86.00
283+12.00
TLE SLOPES AND DRIVES
SE1/4-SE1/4
NE1/4-NE1/4
DETAIL NOT TO SCALE
N68°47'22"E
85.16'
N23°21'10"E
SEE TPP 1033-02-20-4.06
285 STH 20
110.00'
666.33'
285+83.22 PC 4865+87.63
L 239.21
R 835.00
LCH 238.39
LCB N 05°00'02" E
DETAIL NOT TO SCALE
143.29'
10'
144.13'
N17°22'12"E
52.05'
N36°46'56"E
49.22'
N25°54'30"E
2 AP
L 198.28
R 1014.93
LCH 197.96
LCB N 17°45'00" W
NO ACCESS, SEE PROJ. 1032-06-29
STA 287+76.11 STH 20 = STA 4864+22.42 W FR
N23°21'10"E
N20°21'40"E
EXISTING ℄
CURVE 1
4865
4866+27.60
45.00'
4866+62.11
288+67.83
100.10'
N00°01'43"W
158.08'
141.20'
N26°45'30"E
N66°55'55"W
222.45'
290
4865+17.60
99.90'
290+71.50
99.91'
1AP
PT 4869+57.83
75.00', 65.00'
4866+23.57
PC 4865+87.63
N26°03'27"E
155.26'
65.00'
4866+78.83
100.00'
32
65'
33
DOC. 2057222 ACCESS EASE.
75'
4870
STA 4870+23.29
CURVE 2
CURVE 3
N03°12'22"W
N04°12'25"W
S05°49'57"E
98.68'
N83°50'48"E
206.22'
198.46'
N00°02'47"W
4869+57.83
75.00'
75'
31
TLE SLOPES AND DRIVE
3AP
CANOPY
47'
4867+50
4867+75.83
PT 4868+54.65
CURVE 4
20'
IP
R SOUTH BOUND OFF RAMP
NO ACCESS, SEE PROJ. 1101-1(3)
L 268.47
R 934.93
LCH 267.55
LCB N 14°45'00" W
L 310.50
R 945.00
LCH 309.11
LCB S 06°12'24" W
PT 4872+44.01
75.00'
4872+44.08
40.00'
75.00'
4873+50
90.00'
4874+00
60.00'
4874+55
60.00'
4874+60.00
60.00'
PRW592
PRW594
PRW588
PRW589
PRW590
761.35'
N00°13'51"E
ACCESS FOR PARCEL 38 VIA 30' WIDE ACCESS & UTILITY EASEMENT DOC 2134055
L 276.10
R 1029.93
LCH 275.27
LCB N 04°28'25" W
75'
4874+69.33
4875+00.00
75.00', 65.00'
4875+66.55
60'
32
R WEST FRONTAGE ROAD
N23°20'47"E
L 268.47
R 934.93
LCH 267.54
LCB N 14°45'00" W
38
4880
110.17'
N11°05'53"E
PC 4879+37.26
60.00', 40.00'
PRW595
PRW596
4880+50.00
80.00', 70.00'
4882+00.00
80.00', 70.00'
PRW597
4882+50.00
60.00'
PRW585
4882+60.00
PRW598
4883+84.87
61.18'
TLE DRIVE 1AP*
SIGN
34'
1AP* EXISTING SHARED ACCESS DRIVEWAY TO REMAIN
S10°49'39"W
130.30'
34
35
62.04'
N89°21'55"E
STA 4883+95.35
NORTH PROJECT LIMITS
L 439.94
R 1800.00
LCH 438.85
LCB S 15°46'00" W
182.99'
NO ACCESS, SEE PROJ. 1032-06-29
4879+49.77
27.00'
4879+55.42
60.09'
320.18'
S89°47'07"E
PRW593
STA 294+10.29 STH 20 = STA 862+37.60 R I-94
S66°38'40"E
1786.22'
STA 294+96.54
N00°07'43"W
PC 863+23.06
865
870
875
880
6'
TLE SLOPES
EXISTING ℄ I-94
L 863.21
R 137509.87
LCH 863.21
LCB N 00°03'04" E
℄ I-94
STA 870+77.41
PT 871+86.23
871+86.23
245'
874.76'
N00°12'02"W
871.64'
N00°12'59"W
447.21'
N00°13'51"E
PT 4883+89.59
STA 883+96.28
65.69'
1318.84'
SEE TPP 1033-02-20-4.04
SEE TPP 1033-02-20-4.05
A Concrete Monument w/ A DOT Aluminum Cap
Y 188984.80
X 594080.88
R 21 E T 3 N 12 7

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	1101-1(3)	VARIES	1956
STH 20	2341-01-21	VARIES	1966
STH 20	1032-06-29	VARIES	1989

NOTES:
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

A Concrete Monument w/ A Brass Cap
Y 183686.18
X 594100.16
R 21 E T 3 N 13 18 R 22 E

A Concrete Monument w/ A Brass Cap
Y 186347.14
X 594090.84
R 21 E T 3 N 12 7 18 13 R 22 E

26.63'
N73°16'23"E
101.24'
N10°18'26"W
DETAIL NOT TO SCALE

LOT#	PARCEL#
31	018-03-21-12-025-010
32	018-03-21-12-025-000
32	018-03-21-13-001-000
33	018-03-21-12-025-006
34	018-03-21-12-024-010
35	018-03-21-12-024-000
38	018-03-21-12-025-001

SCALE, FEET
0 100 200

(100) DOC. 2048716 PCL. 32
V. 2304 P. 782 DOC. 1438969 PCL. 31
NO RECORDED EASEMENT PCL. 32

(101) NO RECORDED EASEMENT PCL. 35

(108) V. 3089 P. 270 DOC. 1748734 PCL. 32
V. 3307 P. 711 DOC. 1802361 PCL. 33
V. 3094 P. 873 DOC. 1750721 PCL. 35

(103) V. 3418 P. 924 DOC. 1828629 PCL. 32CH
V. 2304 P. 782 DOC. 1438969 PCL. 31
V. 3418 P. 922 DOC. 1828628 PCL. 34
V. 3418 P. 920 DOC. 1828627 PCL. 35
DOC. 2048716 PCL. 32

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6-28-2010
Name Craig Andersen
Title RE Supervisor

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6-28-2010
Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.08
AMENDMENT NO: 1

Vol 1 Pg 110

DOCUMENT # 2255368
RACINE COUNTY REGISTER OF DEEDS
July 13, 2010 4:20 PM

JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

FILE NAME : J:\projects\d2_r_10330294\20\040408A1_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 28-JUN-2010 15:43
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-20-70 STH 20 R/W 1033-02-20 4.08

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.08 AMENDMENT NO: 2

ADDS PARCEL 106 AND UTILITY AGREEMENT NUMBERS 206 & 208, AND AMENDS PARCEL 108 OF TPP 1033-02-20-4.08 AMENDMENT NO. 1, RECORDED AS DOCUMENT 2255368.

THAT PART OF THE SE1/4 OF THE SE1/4 OF SECTION 12, AND THAT PART OF THE NE1/4 OF THE NE1/4 OF SECTION 13, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED			OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.			
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	R/W REQUIRED ACRES EXISTING	R/W REQUIRED ACRES TOTAL	T.L.E. TEMP. ACRES
31	RALPH O. & MARY JANE TURNOCK	Fee AR TLE	0.200	0.000	0.200	1.213
32	RV CAPITOL	Fee AR TLE	0.099	0.000	0.099	0.897
33	YORKVILLE - IVES GROVE	AR TLE	0.000	0.000	0.000	0.121
34	POMP TIRE	Fee TLE	0.063	0.000	0.063	0.019
35	BRUCE HELLER	Fee TLE	0.067	0.000	0.067	0.005
38	SBA STRUCTURES INC.	Fee AR TLE	0.144	0.000	0.144	0.200
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
106	TOWN OF YORKVILLE WATER	ROR	- -	- -	- -	- -
108	TOWN OF YORKVILLE SEWER	ROR	- -	- -	- -	- -
UA206	TOWN OF YORKVILLE WATER	- -	- -	- -	- -	- -
UA208	TOWN OF YORKVILLE SEWER	- -	- -	- -	- -	- -

(100) V. 2304 P. 782 DOC. 1438969 PCL. 31
DOC. 2048716 PCL. 32
NO RECORDED EASEMENT PCL. 32

(101) NO RECORDED EASEMENT PCL. 35

(103) V. 2304 P. 782 DOC. 1438969 PCL. 31
DOC. 2048716 PCL. 32
V. 3418 P. 924 DOC. 1828629 PCL. 32CH
V. 3418 P. 922 DOC. 1828628 PCL. 34
V. 3418 P. 920 DOC. 1828627 PCL. 35

(106) V. 3089 P. 270 DOC. 1748734 PCL. 32
V. 3094 P. 873 DOC. 1750721 PCL. 35

(108) V. 3307 P. 711 DOC. 1802361 PCL. 33

1 AP* EXISTING SHARED ACCESS DRIVEWAY TO REMAIN

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
STH 20	2341-01-21	VARIES	1966
STH 20	1032-06-29	VARIES	1989

NOTES:
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

A Concrete Monument w/ A Brass Cap Y 183686.18 X 594100.16

A Concrete Monument w/ A Brass Cap Y 186321.16 X 591451.59

A Concrete Monument w/ A DOT Aluminum Cap Y 188984.80 X 594080.88

A Concrete Monument w/ A Brass Cap Y 186347.14 X 594090.84

SHEET LOCATION

SCALE, FEET 0 100 200

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11-18-2010 — A E Andersen — Name Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11-18-2010 — Paul Krause — Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.08
AMENDMENT NO: 2

DOCUMENT # 2269389
RACINE COUNTY REGISTER OF DEEDS
November 24, 2010 4:22 PM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1 Pg 138

FILE NAME : J:\projects\d2_r_10330294\20\040408A2_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 18-NOV-2010 14:26
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-20-70 STH 20 R/W 1033-02-20 4.08A2

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.08 AMENDMENT NO: 3

ADDS PARCEL 107 AND AMENDS PARCELS 100 & 103 OF TPP 1033-02-20-4.08 AMENDMENT NO. 2, RECORDED AS DOCUMENT 2269389.

THAT PART OF THE SE1/4 OF THE SE1/4 OF SECTION 12, AND THAT PART OF THE NE1/4 OF THE NE1/4 OF SECTION 13, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	R/W REQUIRED ACRES EXISTING	R/W REQUIRED ACRES TOTAL	T.L.E. TEMP. ACRES
31	RALPH O. & MARY JANE TURNOCK	Fee AR TLE	0.200	0.000	0.200	1.213
32	RV CAPITOL	Fee AR TLE	0.099	0.000	0.099	0.897
33	YORKVILLE - IVES GROVE	AR TLE	0.000	0.000	0.000	0.121
34	POMP TIRE	Fee TLE	0.063	0.000	0.063	0.019
35	BRUCE HELLER	Fee TLE	0.067	0.000	0.067	0.005
38	SBA STRUCTURES INC.	Fee AR TLE	0.144	0.000	0.144	0.200
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
106	TOWN OF YORKVILLE WATER	ROR	- -	- -	- -	- -
107	TIME WARNER CABLE	ROR	- -	- -	- -	- -
108	TOWN OF YORKVILLE SEWER	ROR	- -	- -	- -	- -
UA206	TOWN OF YORKVILLE WATER	- -	- -	- -	- -	- -
UA208	TOWN OF YORKVILLE SEWER	- -	- -	- -	- -	- -

WEST FRONTAGE ROAD
PI STA 4883+89.59
Y 187639.40
X 593884.10
PC STA 4879+37.26
PT STA 4888+23.56
DELTA 28°12'42"
D 03°10'59"
L 886.30
R 1800.00
LCH 877.37
LCB N 09°14'25" E

WEST FRONTAGE ROAD
PI STA 4874+69.33
Y 186787.06
X 593516.20
PC STA 4872+44.01
PT STA 4876+86.55
DELTA 26°33'09"
D 06°00'00"
L 442.54
R 954.93
LCH 438.59
LCB N 10°04'12" E

WEST FRONTAGE ROAD
PI STA 4867+75.39
Y 186088.90
X 593555.31
PC STA 4865+87.63
PT STA 4869+57.83
DELTA 23°34'02"
D 06°21'58"
L 370.19
R 900.00
LCH 367.59
LCB N 08°34'39" E

I-94
PI STA 867+54.65
Y 186023.63
X 594013.56
PC STA 863+23.06
PT STA 871+86.23
DELTA 00°21'35"
D 00°02'30"
L 863.17
R 137503.87
LCH 863.17
LCB N 00°03'04" E

CURVE 1
L 302.24
R 676.20
LCH 299.73
LCB N 10°36'17" E

CURVE 2
L 461.09
R 994.93
LCH 456.97
LCB N 10°04'13" E

CURVE 3
L 149.46
R 914.93
LCH 149.27
LCB S 01°28'22" W

CURVE 4
L 732.26
R 137754.87
LCH 732.26
LCB N 00°04'43" E

A Concrete Monument w/ A Brass Cap
Y 186321.16
X 591451.59

SEE TPP 1033-02-20-4.07

280+08.77
110.00'
280+12.90
100.50'
109.59'
N00°08'43"E
STA 280+56.60

PL
1/16 LINE
100.5' EMERGENCY BY PERMIT ONLY ACCESS
566.38'40"E
ACCESS CONTROLLED PER PROJ. T0807(10)
282+32.11
282+86.00
283+12.00
TLE DRIVEWAY
TLE SLOPES AND DRIVES
TOWN OF YORKVILLE
SE1/4-SE1/4
NE1/4-NE1/4
DETAIL NOT TO SCALE
N68°44'22"E 34.92'
85.16'
N23°21'10"E
SEE TPP 1033-02-20-4.06
PC 4865+81.63
285 STH 20
666.33'
110.00'
284+33.22
L 239.21
R 835.00
LCH 238.39
LCB N 05°00'02" E
DETAIL NOT TO SCALE
143.29'
10'
144.13'
N17°22'12"E
52.05'
N36°46'56"E
49.22'
N25°54'30"E
NO ACCESS, SEE PROJ. 1032-06-29
STA 287+76.11 STH 20
= STA 4864+22.42 W FR
N20°21'40"E
4865
PRW593
4866+62.11
45.00'
4866+27.60
288+67.83
100.10'
N00°01'43"W
168.05'
N26°45'30"E
141.20'
N66°35'35"W
290
290+71.50
99.91'
4865+17.60
99.90'
IP
CANOPY
GARAGE
20'
47'
84.27'
PT 4867+75.39
PC 4869+57.83
R SOUTH BOUND OFF RAMP
L 268.47
R 934.93
LCH 267.55
LCB N 14°45'00" W
PT 4867+54.65
NO ACCESS, SEE PROJ. I 101-1(3)
L 310.50
R 945.00
LCH 309.11
LCB S 06°12'24" W
STA 294+10.29 STH 20
STA 862+37.60 R I-94
STA 294+96.54
N00°07'43"W
1786.22'
PC 863+23.06
865
6'
870
L 863.21
R 137509.87
LCH 863.21
LCB N 00°03'04" E
R I-94
STA 870+77.41
874.76'
N00°12'02"W
PT 871+86.23
TLE SLOPES
EXISTING ℄ I-94
875
871.64'
N00°12'59"W
880
6'
447.21'
NO ACCESS, SEE PROJ. 1032-06-29
62.04'
N89°21'55"E
STA 4883+95.35
NORTH PROJECT LIMITS
L 439.94
R 1800.00
LCH 438.85
LCB S 15°46'00" W
STA 883+96.28
65.69'
1318.84'
N00°13'51"E
182.99'
PI 4883+89.59
6.18'
4883+84.87
SEE TPP 1033-02-20-4.04
SEE TPP 1033-02-20-4.05
2 AP
1AP
3AP
L 198.28
R 1014.93
LCH 197.96
LCB N 17°45'00" W
L 276.10
R 1029.93
LCH 275.27
LCB N 04°28'25" W
4872+44.01
75.00'
PI 4874+69.33
4875+00.00
75.00', 60.00'
4876+86.55
DOC. 2057222 75' ACCESS EASE.
75'
65'
60'
CURVE 1
CURVE 2
CURVE 3
CURVE 4
4870
STA 4870+23.29
4875
N03°12'22"W
N04°12'25"W
S05°49'57"E
98.68'
N83°50'48"E
266.22'
198.46'
N00°02'47"W
45'
PC 4872+44.01
65.00'
90.00'
4873+60
40.00'
75.00'
4874+60.00
60.00'
4874+65
271.00'
PC 4876+86.55
80.00'
4877+75.39
4878+49.77
271.00'
245'
L 268.47
R 934.93
LCH 267.54
LCB N 14°45'00" W
761.35'
N00°13'51"E
ACCESS FOR PARCEL 38 VIA 30' WIDE ACCESS & UTILITY EASEMENT DOC 2134055
PRW590
PRW592
PRW594
PRW588
PRW589
PRW591
PRW595
PRW596
PRW597
PRW585
PRW598
PC 4879+37.26
60.00', 40.00'
4880+50.00
80.00', 70.00'
4882+00.00
80.00', 70.00'
4882+50.00
60.00'
4882+60.00
TLE DRIVE 1AP*
SIGN
34'
30.30'
S10°49'39"W
110.17'
N11°05'53"E
113.31'
N06°12'30"E
S61°14'15"E
60.09'
1 AP* EXISTING SHARED ACCESS DRIVEWAY TO REMAIN
4880
4879+55.42
60.09'
320.18'
S89°47'01"E
4880
34'
38
34
35
R WEST FRONTAGE ROAD
N23°20'47"E
268.47'
L 268.47
R 934.93
LCH 267.54
LCB N 14°45'00" W
PC 4876+86.55
80.00'
4877+75.39
4878+49.77
271.00'
PRW590
PRW592
PRW594
PRW588
PRW589
PRW591
PRW595
PRW596
PRW597
PRW585
PRW598
4883+84.87
6.18'
PI 4883+89.59
182.99'
STA 883+96.28
65.69'
1318.84'
NO ACCESS, SEE PROJ. 1032-06-29
NORTH PROJECT LIMITS
62.04'
N89°21'55"E
STA 4883+95.35
L 439.94
R 1800.00
LCH 438.85
LCB S 15°46'00" W
1AP* EXISTING SHARED ACCESS DRIVEWAY TO REMAIN

100 V. 2304 P. 782 DOC. 1438969 PCL. 31
DOC. 2048716 PCL. 32
101 NO RECORDED EASEMENT PCL. 35
106 V. 3089 P. 270 DOC. 1748734 PCL. 32
V. 3094 P. 873 DOC. 1750721 PCL. 35
107 NO RECORDED EASEMENT PCL. 34, 35
108 V. 3307 P. 711 DOC. 1802361 PCL. 33
103 V. 2304 P. 782 DOC. 1438969 PCL. 31
DOC. 2048716 PCL. 32
V. 3418 P. 924 DOC. 1828629 PCL. 32CH
V. 3418 P. 922 DOC. 1828628 PCL. 34
V. 3418 P. 920 DOC. 1828627 PCL. 35
NO RECORDED EASEMENT PCL. 33

A Concrete Monument w/ A DOT Aluminum Cap
Y 188984.80
X 594080.88

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
STH 20	2341-01-21	VARIES	1966
STH 20	1032-06-29	VARIES	1989

NOTES:
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

A Concrete Monument w/ A Brass Cap
Y 183686.18
X 594100.16

A Concrete Monument w/ A Brass Cap
Y 186347.14
X 594090.84

DETAIL NOT TO SCALE
26.63'
N73°16'23"E
101.24'
N10°18'26"W

SHEET LOCATION
YORKVILLE MT. PLEASANT RACINE COUNTY
R-21-E R-22-E T-3-N R-21-E R-22-E
YORK-VILLE
MT. PLEASANT
Sturtevant
CPR
N

SCALE, FEET
0 100 200
GN

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

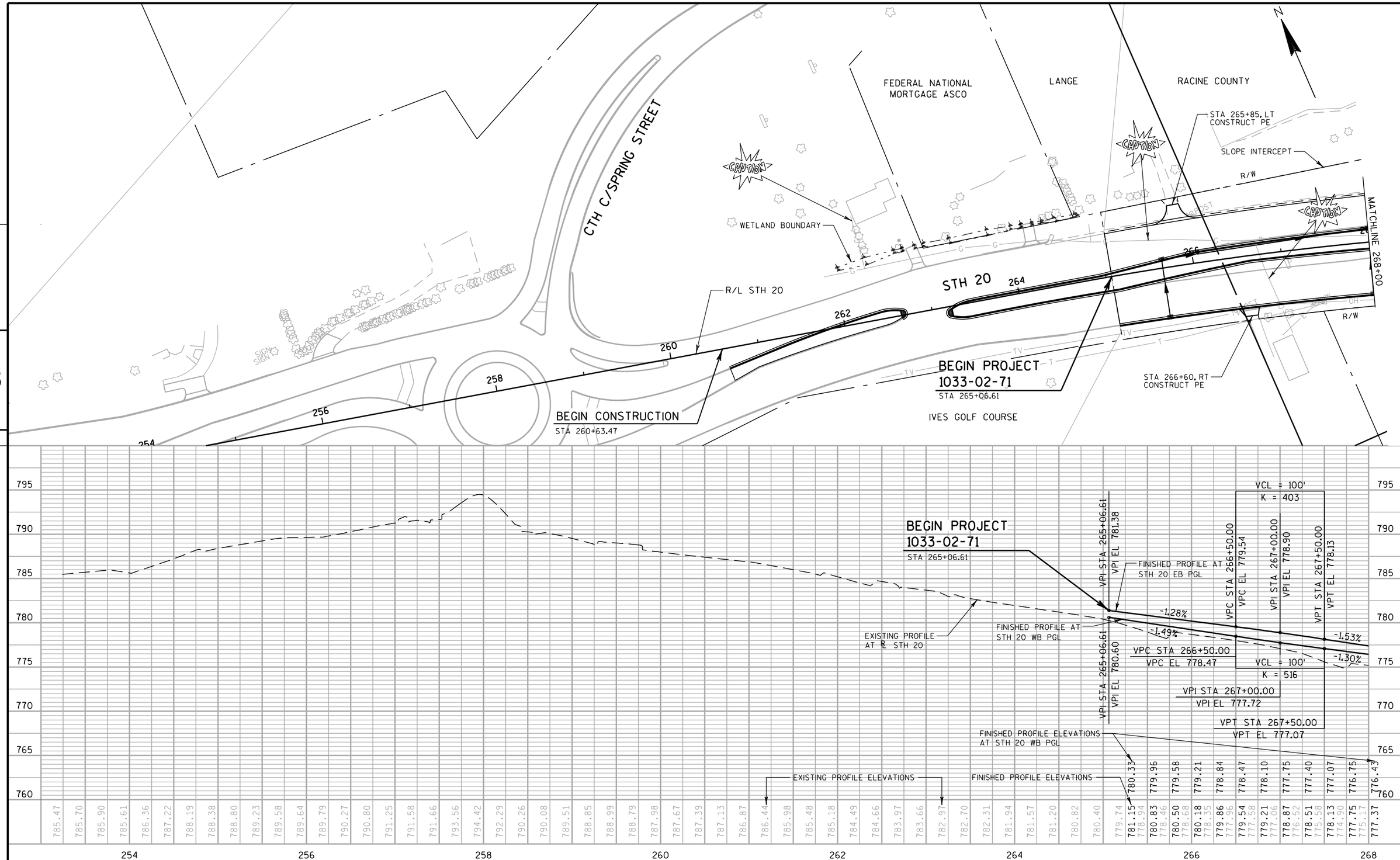
I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
DATE: 1-14-2011
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:
DATE: 1-14-2011
Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.08
AMENDMENT NO: 3

DOCUMENT # 2276057
RACINE COUNTY REGISTER OF DEEDS
February 03, 2011 9:13 AM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1 Pg 159

FILE NAME : J:\projects\d2_r_10330294\20\040408A3_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 14-JAN-2011 14:25
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-20-70 STH 20 R/W 1033-02-20 4.08A3



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\050101_pp.dgn PLOT DATE : 12-DEC-2019 03:05 PLOT BY : mscd1s PLOT NAME : PLOT SCALE : 100:1

RACINE COUNTY

GREENMONTE DRIVE

RACINE COUNTY

WETLAND BOUNDARY

SLOPE INTERCEPT

R/W

STH 20

MATCHLINE 268+00

270

272

274

276

278

R/L STH 20

STA 269+10, RT
CONSTRUCT PE

STA 270+70, RT
CONSTRUCT PE

STA 271+25, RT
CONSTRUCT PE

HANSEN REVOCABLE
TRUST

HANSEN

TLE

STA 273+90, RT
CONSTRUCT PE
REMOVE 18" CPCM
1-18" CPCS REQ'D

WETLAND BOUNDARY

GOLF
COURSE

STA 278+60, LT
CONSTRUCT CE
REMOVE 48" CPCM

RACINE COUNTY

SEWAGE
TREATMENT
PLANT

SNIKNEJ CO INC

WETLAND BOUNDARY

STA 282+98, LT
CONSTRUCT CE
REMOVE 18" CPCM
1-18" CPCS REQ'D

TLE

280

282

MATCHLINE 283+00

WETLAND BOUNDARY

SPOKES CIRCLE

SNIKNEJ
CO INC

RACINE COUNTY
CONVENTION

ADAMS

LAPOINTE

CAUTION

N

5

5

780
775
770
765
760
755
750
745

FINISHED PROFILE AT
STH 20 EB PGL

FINISHED PROFILE AT
STH 20 WB PGL

-1.30%

-1.53%

VPI STA 272+00.00
VPI EL 771.24

VPI STA 273+00.00
VPI EL 769.71

VPC STA 276+02.00
VPC EL 765.09

-1.53%

EXISTING PROFILE
AT ℄ STH 20

FINISHED PROFILE AT
STH 20 EB & WB PGL

VCL = 500'
K = 211

LP STA 279+24.57
LP EL 762.62

VPT STA 281+02.00
VPT EL 763.37

0.84%

VPI STA 278+52.00
VPI EL 761.27

FINISHED PROFILE ELEVATIONS
AT STH 20 WB PGL

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

| | | |

SNIKNEJ CO INC
WETLAND BOUNDARY
SLOPE INTERCEPT
TLE
R/W
WEST FRONTAGE ROAD
S988
GROUNDWATER CONTAMINATION
SEE SPECIAL PROVISION 205.0501.S
TURNOCK
S-51-229
R/L STH 20
STH 20
MATCHLINE 283+00
284
286
288
290
R/L WEST FRONTAGE ROAD
S-51-228
S-51-227
EXCAVATION, HAULING, AND DISPOSAL
OF PETROLEUM CONTAMINATED SOIL.
SNIKNEJ
CO INC
SPOKES CIRCLE
TRIPLE H
SPOKES LLC
WILLKOMM
DEVELOPMENT
EXCAVATION, HAULING, AND DISPOSAL
OF PETROLEUM CONTAMINATED SOIL.
RAMP NW
S988
R/L IH 94
864
WISCONSIN
RAMP NE
S-51-230
MEURER
TRUST
882NE
R/L NW
R/L NE
292
294
296
R/L SW
R/L SE
298
S988
RAMP SW
IH 94 SB
IH 94 NB
098
860
3S098 RAMP SE
KARYUS-
XIOS
MATCHLINE 298+00
5
5

780
775
770
765
760
755
750
745

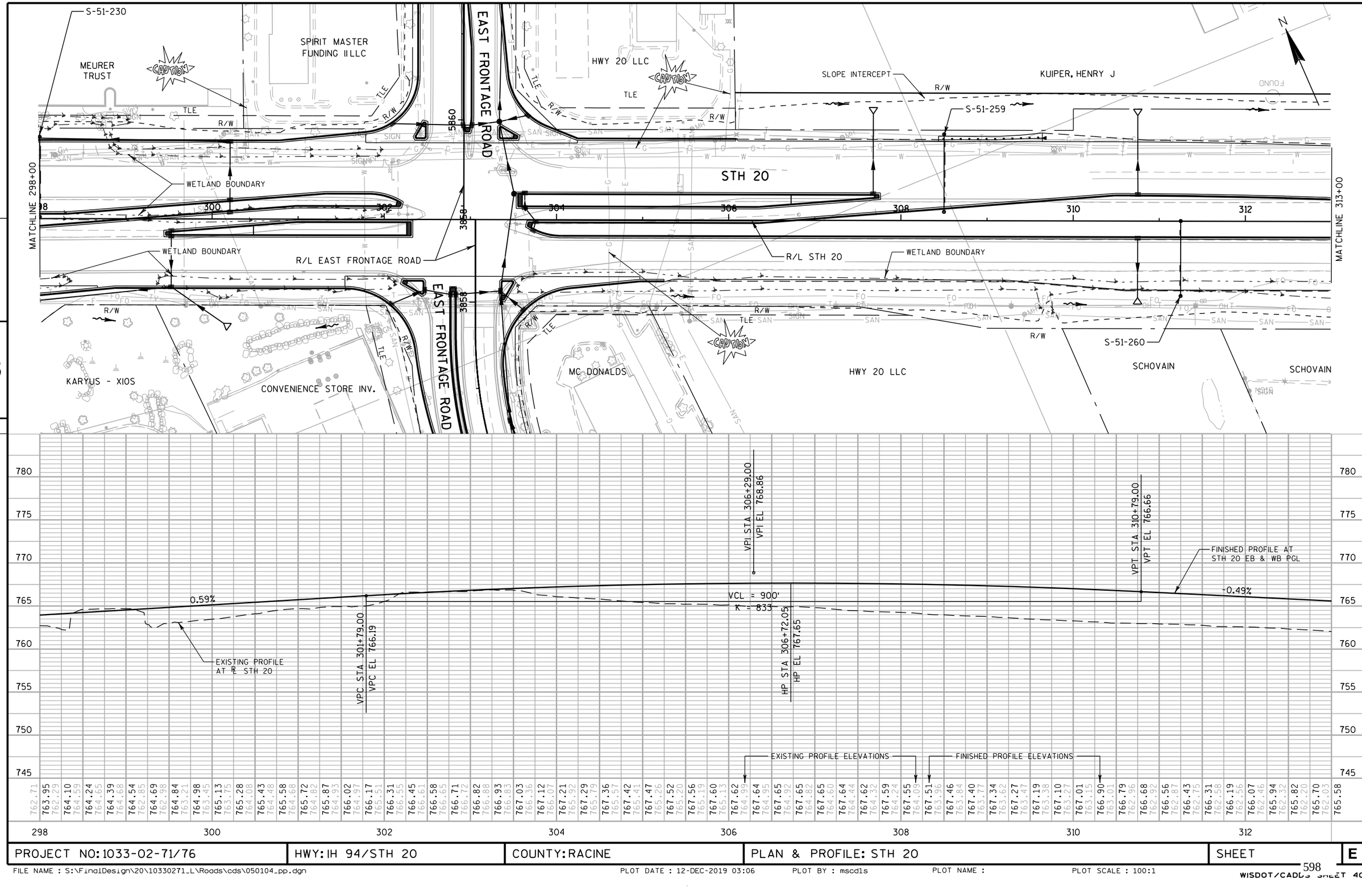
VPI STA 287+95.00
VPI EL 769.20
VPT STA 289+45.00
VPT EL 767.92
EXISTING PROFILE
AT R STH 20
VPC STA 286+45.00
VPC EL 767.94
VCL = 300'
K = 177
0.84%
HP STA 287+93.76
HP EL 768.56
FINISHED PROFILE AT
STH 20 EB & WB PGL
-0.86%
VPC STA 294+94.00
VPC EL 763.22
VCL = 150'
K = 104
LP STA 295+82.64
LP EL 762.84
VPT STA 296+44.00
VPT EL 763.02
0.59%
VPI STA 295+69.00
VPI EL 762.58

EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

284	286	288	290	292	294	296	298
765.38 / 765.04 / 764.56	765.25 / 763.08	765.46 / 763.79	765.67 / 764.37	765.88 / 764.87	766.09 / 765.40	766.30 / 765.85	766.51 / 766.25
766.72 / 766.42	766.93 / 766.37	767.14 / 766.41	767.35 / 766.57	767.56 / 766.78	767.77 / 767.04	767.98 / 767.19	768.17 / 767.50
768.32 / 767.65	768.43 / 767.76	768.51 / 767.85	768.55 / 767.90	768.56 / 767.87	768.54 / 767.85	768.48 / 767.82	768.38 / 767.72
768.25 / 767.68	768.08 / 767.52	767.87 / 767.42	767.66 / 767.86	767.45 / 767.83	767.23 / 767.91	767.02 / 767.62	766.81 / 766.89
766.59 / 765.59	766.38 / 766.64	766.16 / 767.00	765.95 / 767.18	765.74 / 767.13	765.52 / 766.72	765.31 / 766.51	765.09 / 766.29
764.88 / 766.67	764.67 / 767.11	764.45 / 766.86	764.24 / 766.65	764.03 / 766.47	763.81 / 766.28	763.60 / 766.10	763.38 / 765.63
763.17 / 765.48	763.00 / 765.14	762.89 / 764.67	762.85 / 764.29	762.86 / 764.27	762.93 / 764.05	763.06 / 764.08	763.21 / 763.96
763.36 / 763.52	763.50 / 763.28	763.65 / 763.13	763.80 / 762.71	763.95			

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\050103_pp.dgn
PLOT DATE : 12-DEC-2019 03:06
PLOT BY : mscd1s
PLOT NAME :
PLOT SCALE : 100:1



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: STH 20	SHEET	E

STA 314+50, LT
CONSTRUCT CE
1-XX" CP REQ'D

KUIPER, HENRY J

SLOPE INTERCEPT

R/W

WETLAND BOUNDARY

R/L STH 20

MATCHLINE 313+00

MATCHLINE 328+00

STH 20

WETLAND BOUNDARY

S-51-261

R/L RC

RED CLOUD DRIVE

GALAXY DRIVE

STA 314+45, RT
CONSTRUCT CE
1-36" CP REQ'D

SCHOVAIN

MLG/HWY 20

KAYCEE LTD

CAUTION

5

5

780
775
770
765
760
755
750
745

FINISHED PROFILE AT
STH 20 EB & WB PGL

-0.49%

-0.21%

VPI STA 322+87.66
VPI EL 760.75

VPI STA 323+96.75
VPI EL 760.52

FINISHED PROFILE AT
STH 20 EB PGL

FINISHED PROFILE AT
STH 20 WB PGL

EXISTING PROFILE
AT ℄ STH 20

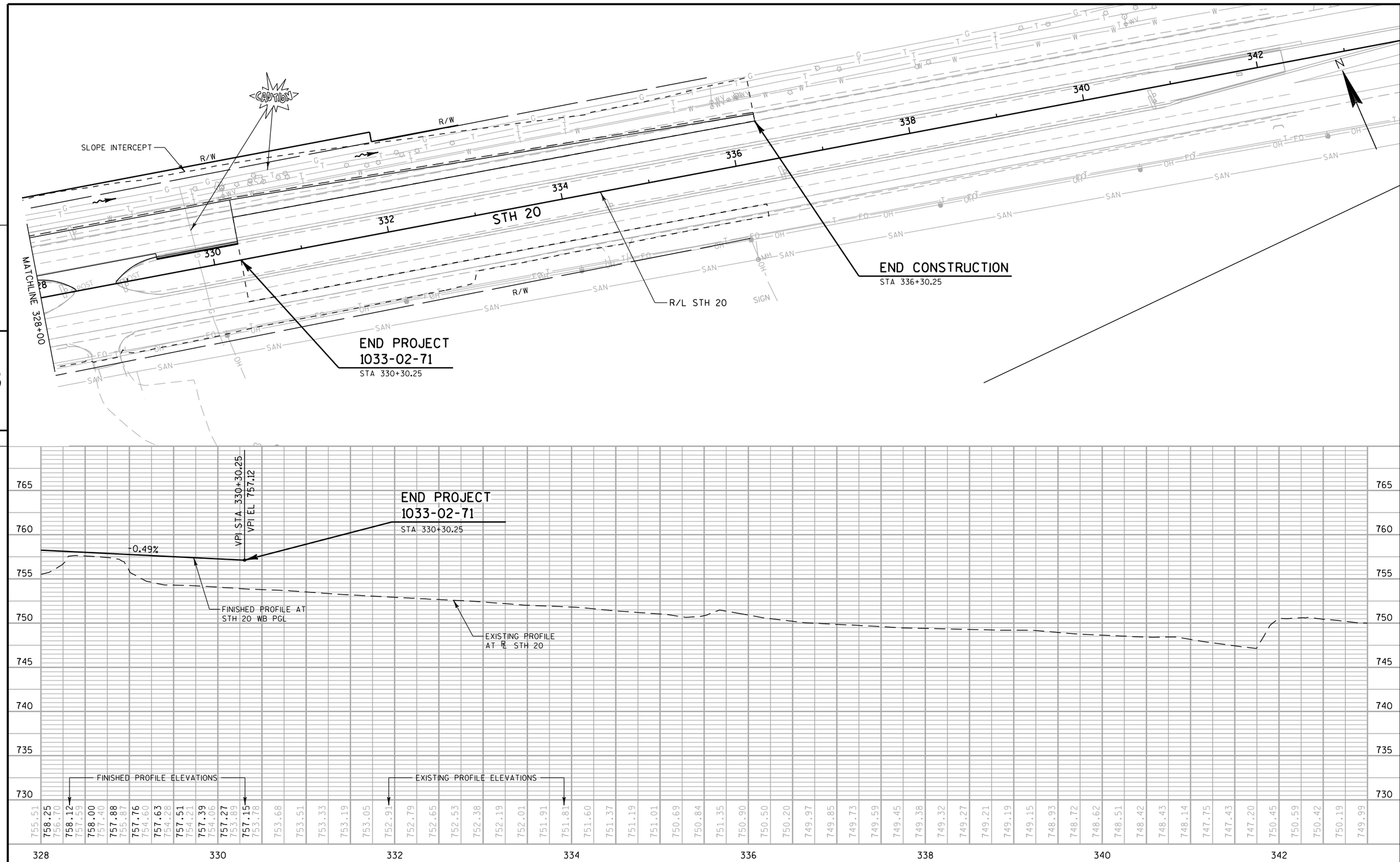
FINISHED PROFILE ELEVATIONS
AT STH 20 EB PGL

760.72 760.67 760.62 760.57

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

| | | |



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\050106_pp.dgn PLOT DATE : 12-DEC-2019 03:06 PLOT BY : mscd1s PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 40

BEGIN CONSTRUCTION
STA 858SW+56.91

SLOPE INTERCEPT

TLE

R/W

R/L SW

858SW

856SW

854SW

RAMP SW

860SW

862SW

WETLAND BOUNDARY

EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL.

CAUTION

R/L IH 94

IH 94 SB

IH 94 NB

854 856 858 860 862

STH 20

R/L STH 20

WETLAND BOUNDARY

S-51-228

S-51-229

TLE

R/W

WETLAND BOUNDARY

S-51-250

864NW

866NW

868NW

RAMP NW

WETLAND BOUNDARY

R/L NW

CAUTION

N

5

5

854SE

856SE

VPI STA 855SW+90.00
VPI EL 781.92

BEGIN CONSTRUCTION
STA 858SW+56.91

EXISTING PROFILE AT ℄ SW

VCL = 650'
K = 142

-3.80%

VCL = 300'
K = 59

1.26%

VPT STA 859SW+15.00
VPT EL 769.56

VPC STA 859SW+35.00
VPC EL 768.80

FINISHED PROFILE AT ℄ SW

VPI STA 860SW+85.00
VPI EL 763.09

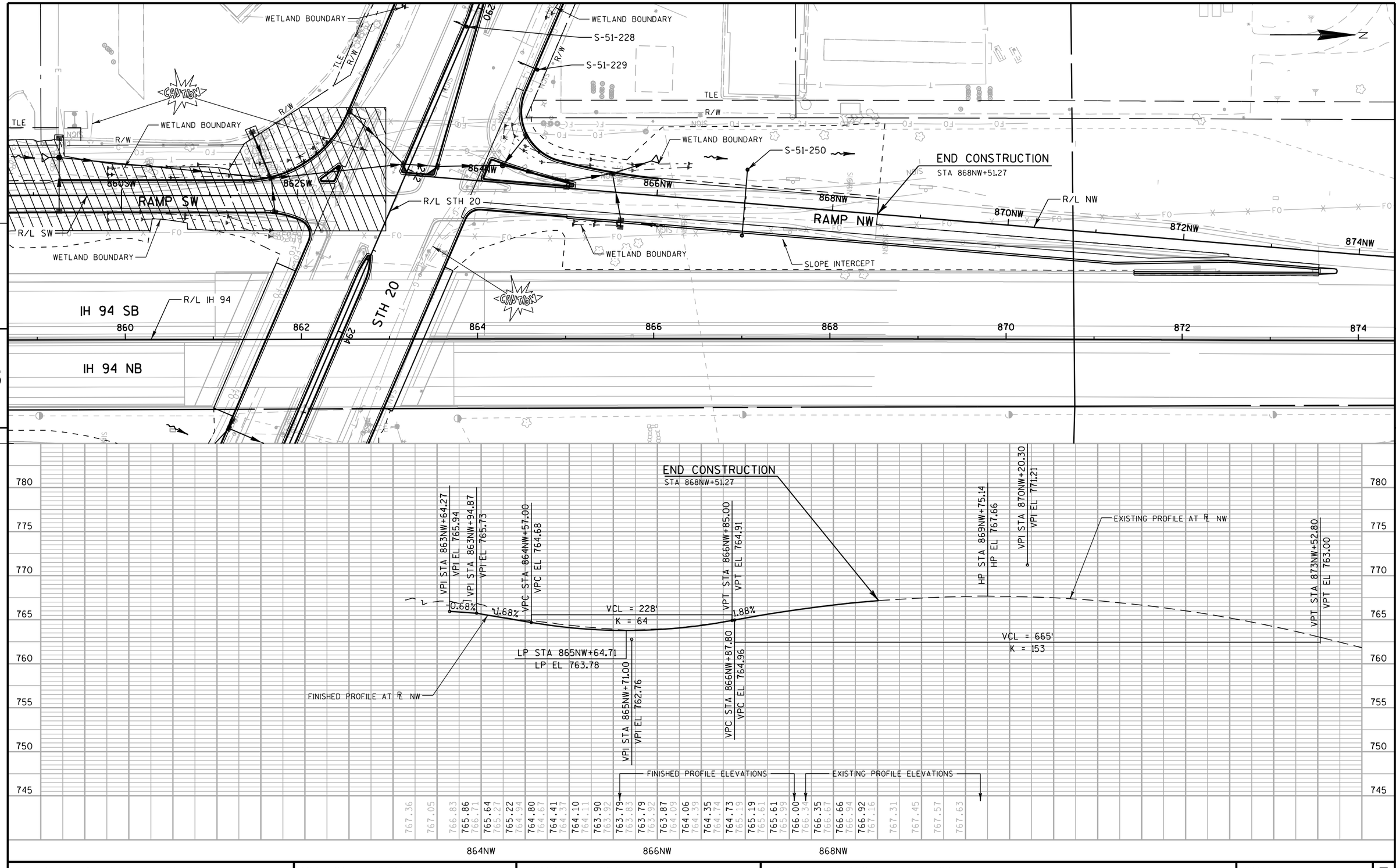
LP STA 861SW+60.48
LP EL 764.51

VPT STA 862SW+35.00
VPT EL 764.98

VPI STA 862SW+71.96
VPI EL 765.44

780 775 770 765 760 755 750 745

| FINISHED PROFILE ELEVATIONS | | |



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: RAMP NW	SHEET	E

IH 94 SB

IH 94 NB

R/L IH 94

STH 20

R/L STH 20

BEGIN CONSTRUCTION
STA 855SE+90.00

R/L SE

RAMP SE

WETLAND BOUNDARY

R/W

SLOPE INTERCEPT

S-51-249

KWIK TRIP INC

KARYUS - XIOS

CAUTION

WISCONSIN

RAMP NE

R/L NE

S-51-230

MEURER TRUST

WETLAND BOUNDARY

N

5

5

VPI STA 854SE+30.00
VPI EL 777.61

EXISTING PROFILE AT ℄ SE

VPC STA 850SE+50.00
VPC EL 776.47

HP STA 851SE+23.07
HP EL 776.58

BEGIN CONSTRUCTION
STA 855SE+90.00

VCL = 760'
K = 244

-2.82%

VCL = 230'
K = 70

0.97%

VPT STA 858SE+10.00
VPT EL 766.89

VPC STA 858SE+57.00
VPC EL 765.57

VPI STA 859SE+72.00
VPI EL 762.32

LP STA 860SE+54.50
LP EL 762.78

VPT STA 860SE+87.00
VPT EL 762.86

VPI STA 861SE+19.03
VPI EL 763.17

FINISHED PROFILE AT ℄ SE

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

850SE	852SE	854SE	856SE	858SE	860SE
776.36 / 776.41 / 776.47 / 776.53 / 776.57 / 776.58 / 776.56 / 776.52 / 775.90 / 775.84 / 775.81 / 775.75 / 775.70 / 775.56 / 775.41 / 775.24 / 775.04 / 774.81 / 774.59 / 774.27 / 773.62 / 773.22 / 772.81 / 772.36 / 771.92	771.91 / 771.52	771.41 / 771.16 / 770.88 / 770.90 / 770.32 / 770.63	769.75 / 770.35 / 769.14 / 770.08 / 768.51 / 769.78 / 767.85 / 769.47 / 767.17 / 769.19 / 766.47 / 768.74 / 765.76 / 768.25 / 765.08 / 767.78	764.48 / 767.22 / 763.98 / 766.62 / 763.56 / 765.86 / 763.23 / 765.29 / 762.99 / 764.64 / 762.84 / 764.18 / 762.78 / 764.12 / 762.81 / 764.39 / 762.98 / 764.59	764.16

780 775 770 765 760 755 750 745

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: RAMP SE	SHEET	E

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PLOT DATE : 12-DEC-2019 03:07
PLOT BY : mscd1s
PLOT NAME :
PLOT SCALE : 100:1
WISDOT/CADDS SHEET 40

IH 94 SB

IH 94 NB

STH 20

R/L IH 94

S-51-249

R/L SE

858SE

RAMP SE

860SE

R/W

R/L STH 20

WETLAND BOUNDARY

CAUTION

SLOPE INTERCEPT

WISCONSIN

862NE

R/L NE

872NE

870NE

868NE

864NE

RAMP NE

866NE

CAUTION

WETLAND BOUNDARY

KARYUS - XIOS

END CONSTRUCTION

STA 866NE+94.77

WETLAND BOUNDARY

S-51-230

MEURER TRUST

LV 20 LLC

5

5

VPI STA 861NE+58.98
VPI EL 763.07

-1.00%

VPC STA 861NE+90.00
VPC EL 762.76

VPI STA 862NE+80.00
VPI EL 761.86

VPRC STA 863NE+70.00
VPRC EL 759.68

VCL = 180'
K = 126

VCL = 180'
K = 331

VPT STA 865NE+50.00
VPT EL 755.81

VPC STA 865NE+70.00
VPC EL 755.43

-1.88%

VPI STA 864NE+60.00
VPI EL 757.50

VCL = 420'
K = 121

VPRC STA 869NE+90.00
VPRC EL 754.84

VPI STA 867NE+80.00
VPI EL 751.48

LP STA 867NE+96.80
LP EL 753.30

FINISHED PROFILE AT ℄ RAMP NE

END CONSTRUCTION
STA 866NE+94.77

EXISTING PROFILE AT ℄ RAMP NE

770 765 760 755 750 745 740 735

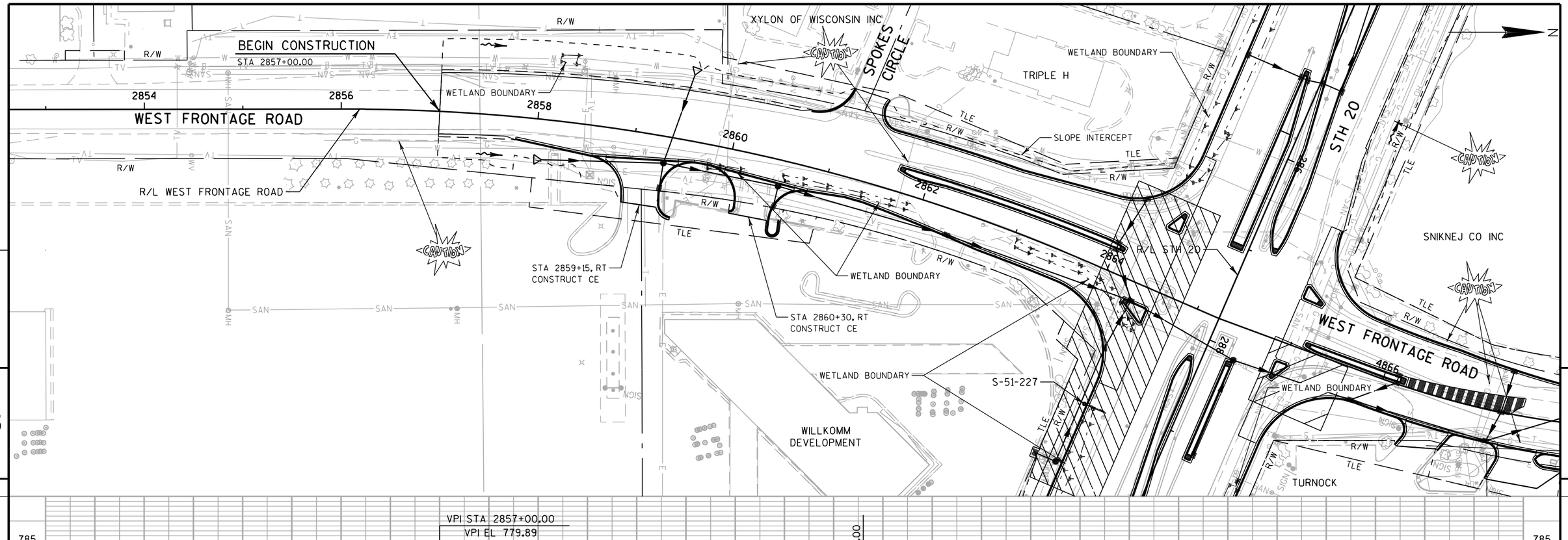
EXISTING PROFILE ELEVATIONS

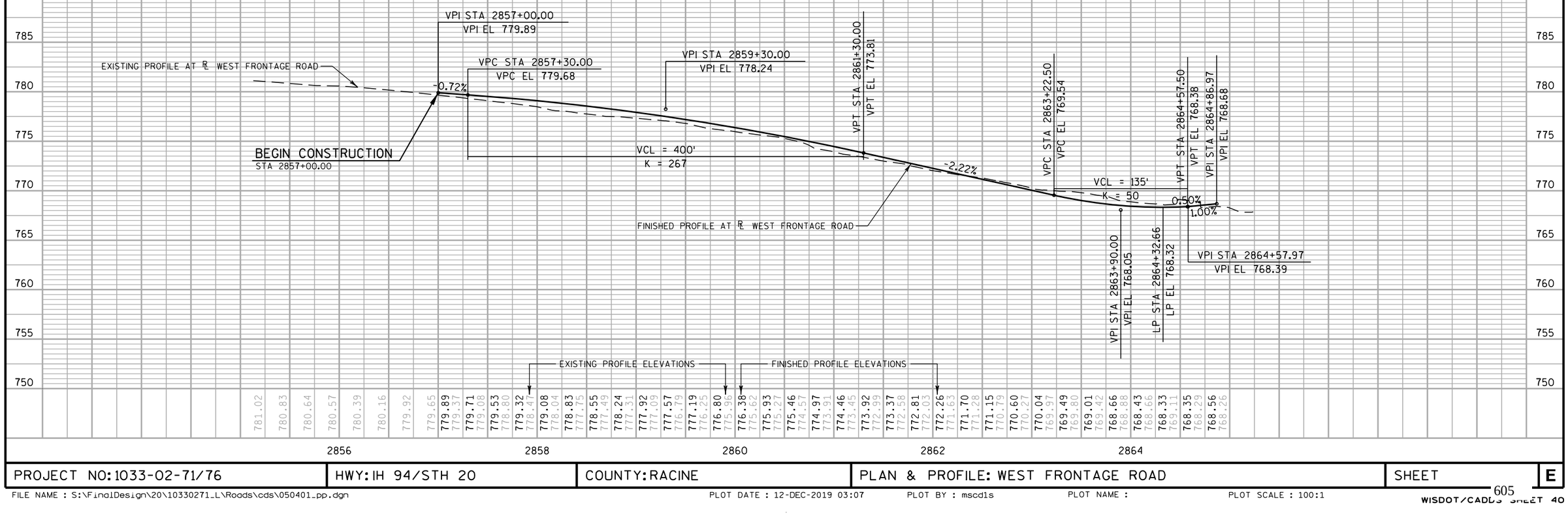
764.38 764.50 763.99 762.91 763.11 762.66 762.43 762.36 761.79 762.02 761.27 761.63 760.77 761.18 760.28 760.69 759.76 760.15 759.22 759.56 758.73 758.97 758.33 758.39 757.88 757.84 757.37 757.30 756.82 756.78 756.27 756.29 755.69 755.81 755.16 755.34 754.66 754.90 754.38 754.52 754.06 754.19 753.87 753.91 753.67 753.53 753.40 753.35 753.29 750.95 753.41 753.55 753.74 753.98 754.27 754.61

FINISHED PROFILE ELEVATIONS

862NE 864NE 866NE 868NE 870NE 872NE

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: RAMP NE	SHEET	E





PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET	E

XYLON OF WISCONSIN INC

SPOKES CIRCLE

TRIPLE H

WETLAND BOUNDARY

CAUTION

TLE

R/W

2860

WEST FRONTAGE ROAD

2862

2864

R/L STH 20

R/L WEST FRONTAGE ROAD

STH 20

SNIKNEJ CO INC

SAN

WETLAND BOUNDARY

S-51-227

WILLKOMM
DEVELOPMENT

SLOPE INTERCEPT

END CONSTRUCTION
STA 4868+00.00

4866

4868

4870

4872

4874

TURNOCK

STA 4866+55, RT
CONSTRUCT CE

STA 4867+45, RT
CONSTRUCT CE

N

5

5

780
775
770
765
760
755
750
745

VPI STA 4864+70.49
VPI EL 768.67

-1.00%

VPC STA 4864+90.52
VPC EL 768.47

VPI STA 4865+65.52
VPI EL 766.97

-2.97%

VCL = 150'
K = 155

VCL = 150'
K = 123

VPT STA 4868+00.00
VPT EL 760.92

-1.75%

FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD

VPT STA 4866+40.52
VPT EL 764.75

VPC STA 4866+50.00
VPC EL 764.46

VPI STA 4867+25.00
VPI EL 762.24

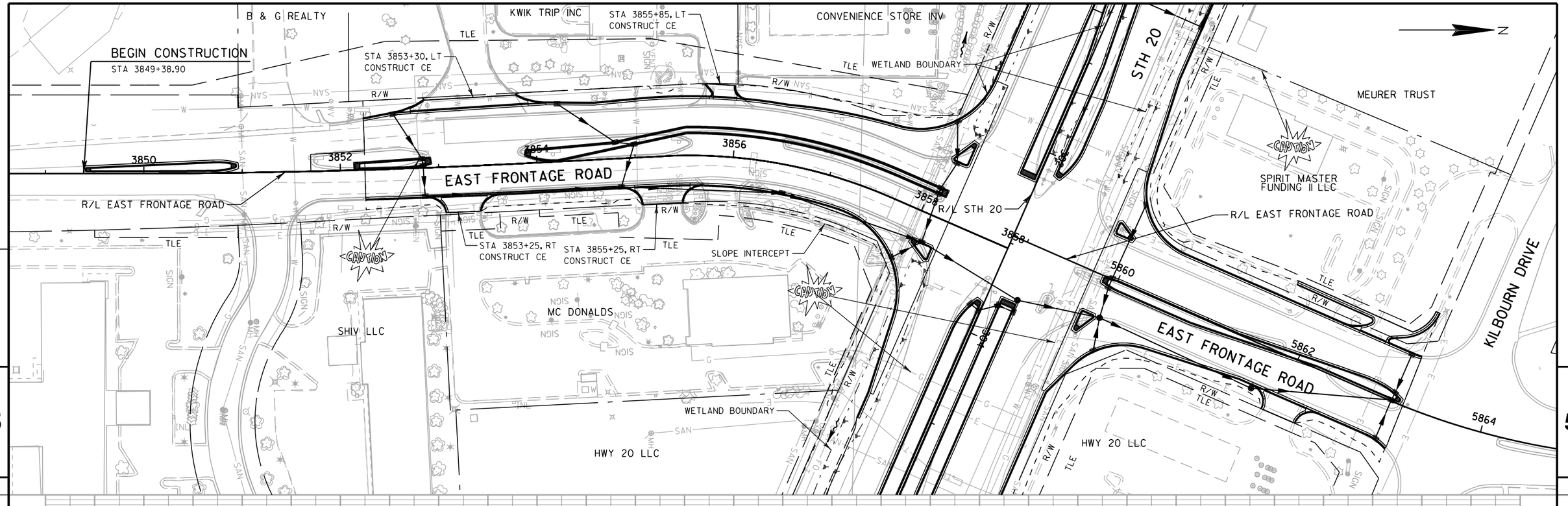
END CONSTRUCTION
STA 4868+00.00

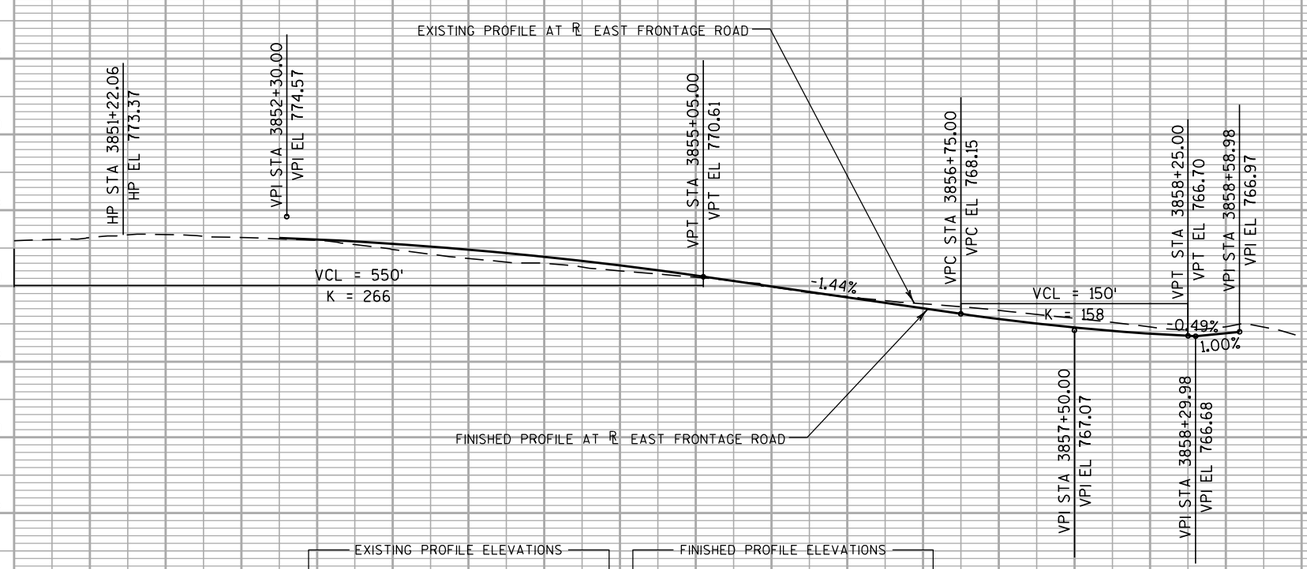
EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

	FINISHED PROFILE ELEVATIONS													EXISTING PROFILE ELEVATIONS											
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				766.73	766.26	766.06	765.62	765.10	764.44	763.87	763.42	762.92	762.38	761.99	761.48	760.95	760.58						
	4864					4866							4868												

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET	E

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PLOT DATE : 12-DEC-2019 03:07
PLOT BY : mscdls
PLOT NAME :
PLOT SCALE : 100:1
WISDOT/CADDS SHEET 40





PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET	E

B & G REALTY
KWIK TRIP INC
CONCENIENCE STORE INV
WETLAND BOUNDARY
R/L EAST FRONTAGE ROAD
EAST FRONTAGE ROAD
3850
3852
3854
3856
3858
R/L STH 20
STH 20
MEURER TRUST
SPIRIT MASTER FUNDING II LLC
SLOPE INTERCEPT
STA 5862+65, LT
CONSTRUCT CE
KILBOURN DRIVE
END CONSTRUCTION
STA 5863+16.29
5860
5862
5864
SHIV LLC
MC DONALDS
HWY 20 LLC
STA 5862+05, RT
CONSTRUCT CE
CAUTION
R/W
TLE
SAN
SIGN
INL
G
E
W

5

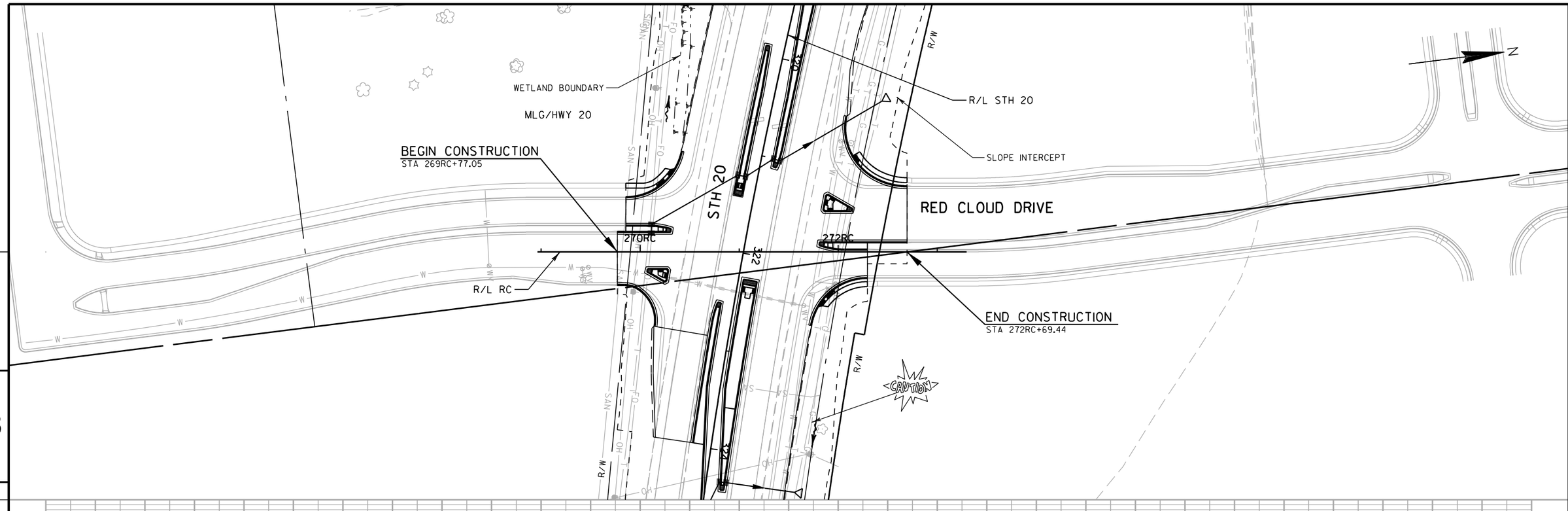
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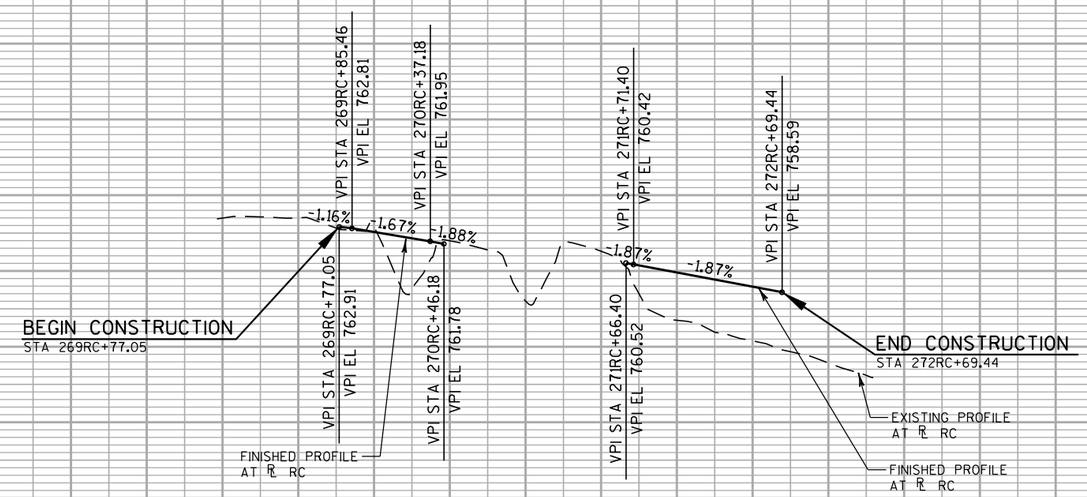
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VPI EL 766.84
VPI STA 5859+70.60
VPI EL 766.46
HP STA 5860+62.45
HP EL 766.72
VPI STA 5861+50.00
VPI EL 767.36
VPI STA 5863+16.38
VPI EL 764.64
-1.00%
0.50%
-1.63%
VCL = 330'
K = 155
VPC STA 5859+85.00
VPC EL 766.53
VPT STA 5863+15.00
VPT EL 764.67
FINISHED PROFILE AT PGL EAST FRONTAGE ROAD
EXISTING PROFILE AT ℄ EAST FRONTAGE ROAD
END CONSTRUCTION
STA 5863+16.29

775
770
765
760
755
750
745
740

FINISHED PROFILE ELEVATIONS
EXISTING PROFILE ELEVATIONS

| | | |





FINISHED PROFILE ELEVATIONS

270RC																			
763.48	763.56	763.50	762.83	762.90	762.57	762.15	761.99	761.38	758.02	761.87	761.29	758.49	760.36	756.72	759.89	755.95	759.42	755.40	758.95	754.66	753.92	753.10
					758.77																	

EXISTING PROFILE ELEVATIONS

272RC

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: RED CLOUD DRIVE	SHEET	E

Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B04-11	PULL BOX
09B16-01	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C08-05	CONCRETE BASE, TYPE 7
09C11-10	CONCRETE BASE TYPE 10
09C12-09A	CONCRETE BASE TYPE 13
09C12-09B	CONCRETE BASE TYPE 13
09C14-03	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-03	SIGNAL CONTROL CABINET
09D05-02	L30 LIGHTING CONTROL CABINET 240/480 VOLT
09E01-15B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-06	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-08A	TYPE 9 POLE 15'-30' MONOTUBE ARM
09E08-08B	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-08C	TYPE 12 POLE 35'-55' MONOTUBE ARM
09E08-08D	TYPE 13 POLE 35'-55' MONOTBE ARM
09E08-08E	GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS
09F15-04A	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
09G01-04A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09H09-02	COMMUNICATION VAULT TYPE 1
10A01-03	ELECTRICAL HANDHOLE WIRING
10A02-03	IDENTIFICATION PLAQUES LIGHT POLES
10A05-03	ELECTRICAL DETAILS GROUND MOUNT LIGHT POLES ISOLATED NEUTRAL SYSTEMS
10A11-03	ELECTRICAL DETAILS MEDIAN MOUNT LIGHT POLES ISOLATED NEUTRAL SYSTEMS
10A17-04A	POLES, TYPES 7 ALUMINUM - 35'-10" SHAFT
10A18-05A	LUMINAIRE ARMS, SINGLE MEMBER 6-INCH CLAMP
11B01-05	CONCRETE CORRUGATED MEDIAN

6

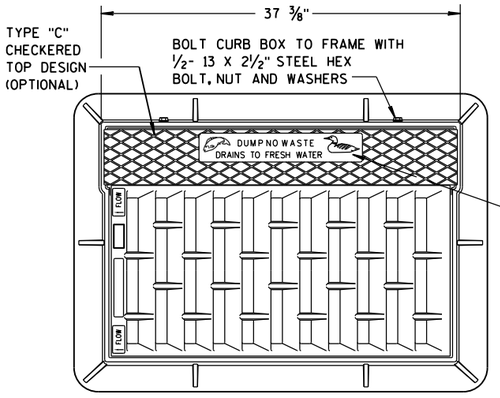
Standard Detail Drawing List

11B02-02	CONCRETE MEDIAN NOSE
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13A03-06	CONCRETE PAVEMENT SHOULDERS
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-09	URBAN DOWELED CONCRETE PAVEMENT
13C16-02A	DETAIL FOR RIGHT TURN LANE/TEE INTERSECTION BYPASS LANE ON A CONRETE ROADWAY
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C19-01	HMA LONGITUDINAL JOINTS
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B28-03	GUARDRAIL MOW STRIP
14B32-06A	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-06B	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-06C	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-06D	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-06E	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B47-02A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15A04-04A	FLEXIBLE DELINEATOR POST
15A04-04B	DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A04-04C	DELINEATOR POST WITH REFLECTIVE SHEETING
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-07D	ON RAMP LANE CLOSURE
15C02-07E	OFF RAMP LANE CLOSURE
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C15-05	36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE
15C20-02	YIELD MARKING
15C24-04	36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE
15C27-03A	DOUBLE ARROW WARNING SIGN PLACEMENT
15C27-03B	PAVEMENT MARKING (ISLANDS)
15C29-06A	BICYCLE LANE MARKING
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15D12-07A	TRAFFIC CONTROL, LANE CLOSURE
15D15-05E	TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-06	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

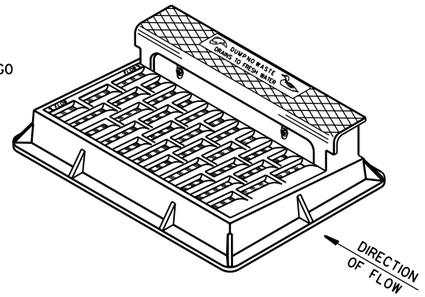
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Standard Detail Drawing List

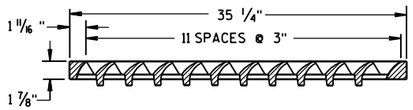
15D23-06	TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D36-01	BARRICADE RACK
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D40-01	TRAFFIC CONTROL, LANE SHIFT, MULTILANE DIVIDED OR ONE WAY ROAD

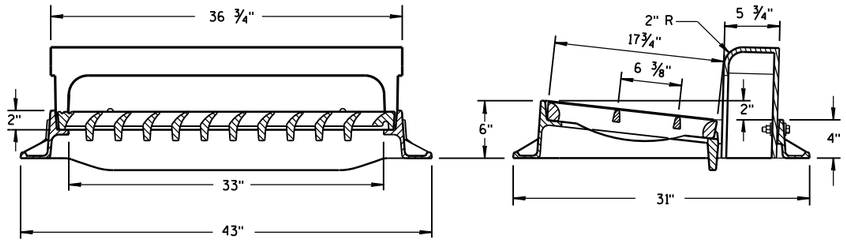


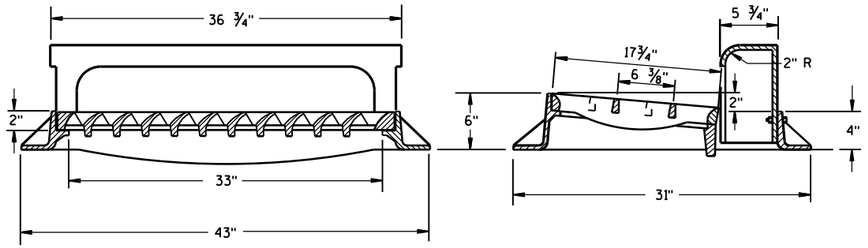
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

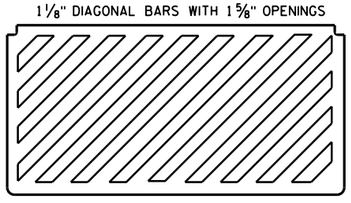






TYPE "H"

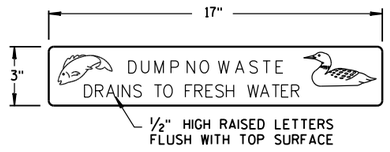
NOTE: EITHER CASTING IS ACCEPTABLE



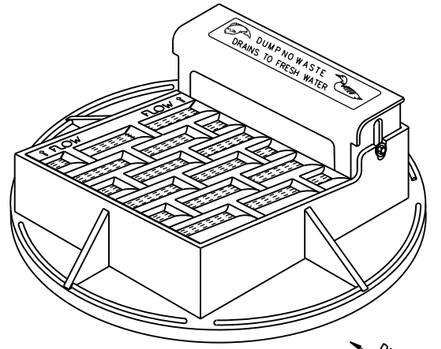
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

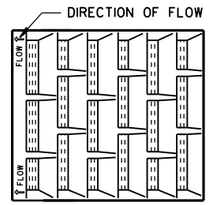
NOTE:
GRATE IS REVERSIBLE.

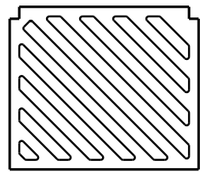
GENERAL NOTES

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.

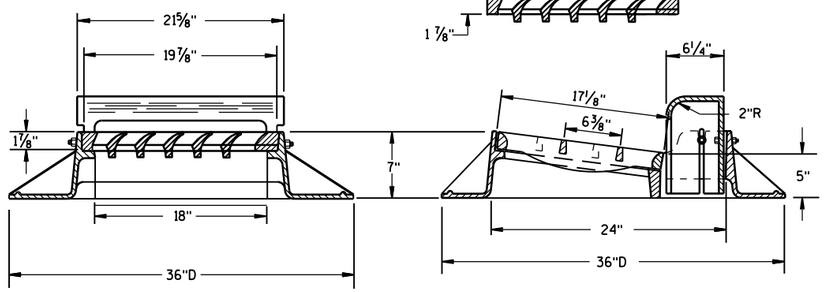




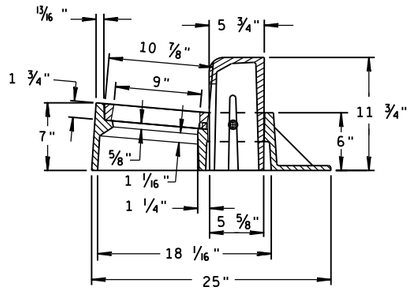
SPECIAL GRATE FOR TYPE "A" COVER

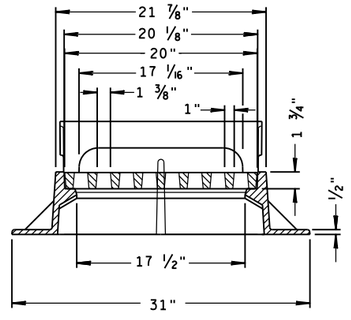
(MEASURES 19 3/4" X 17" X 1 7/8")

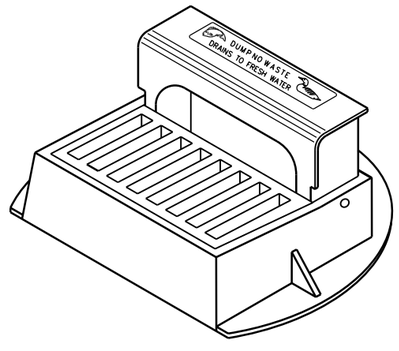
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

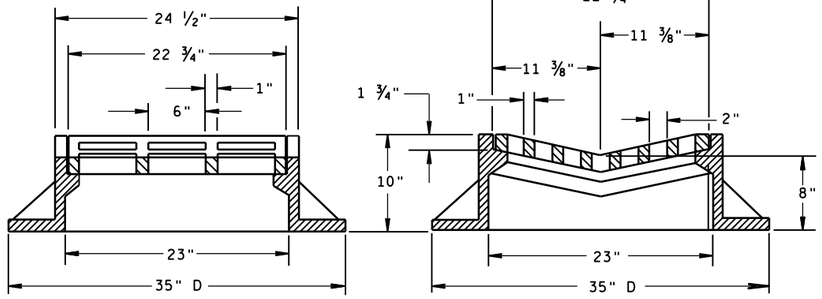
INLET COVERS
TYPE A, H, A-S, H-S & Z

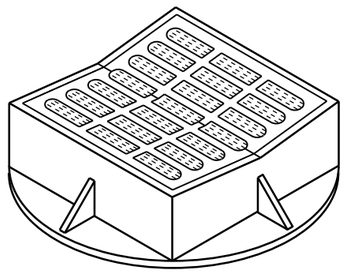
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

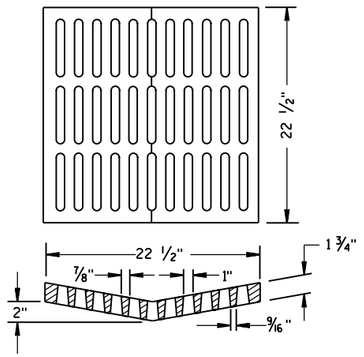
6

S.D.D. 8 A 5-19a



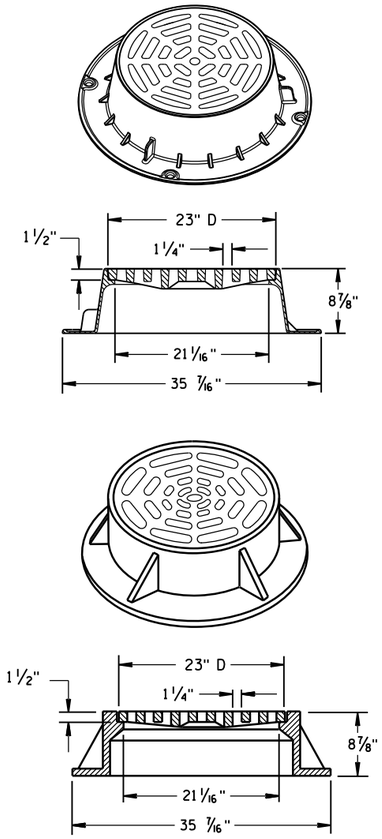


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

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



TYPE "C"

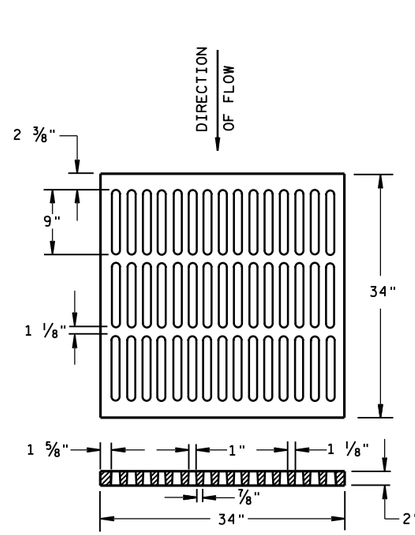
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

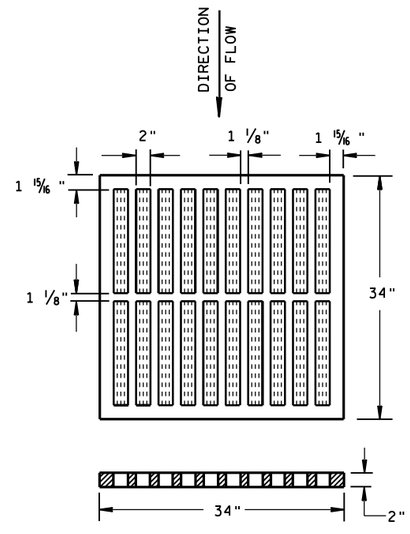
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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



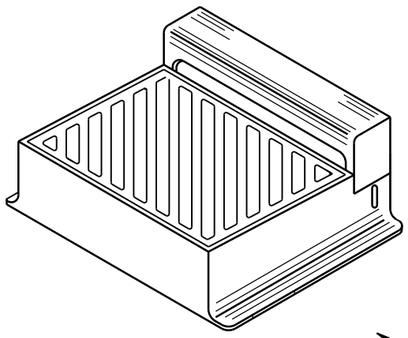
ALTERNATIVE TYPE "MS"

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

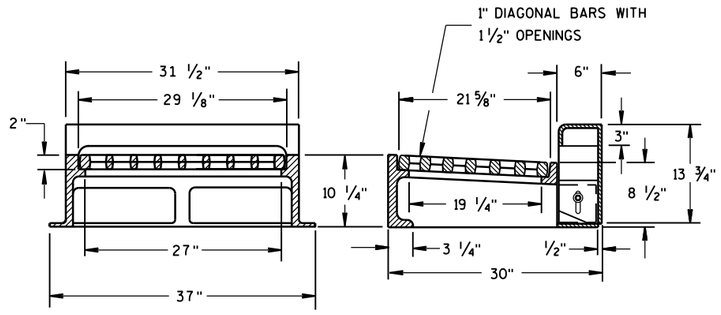


TYPE "MS"

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



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



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

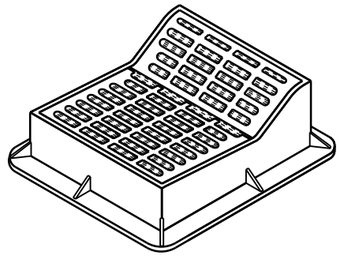
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

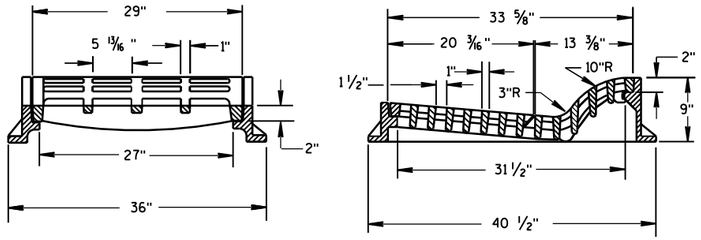
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

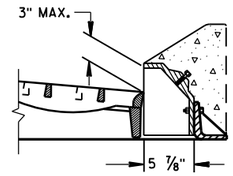
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

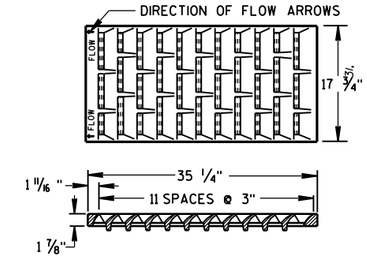
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

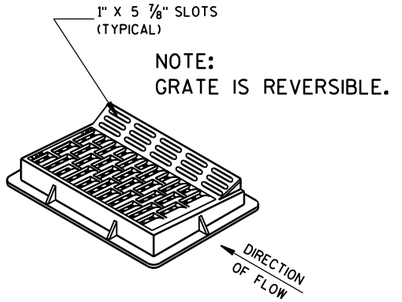
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

GENERAL NOTES

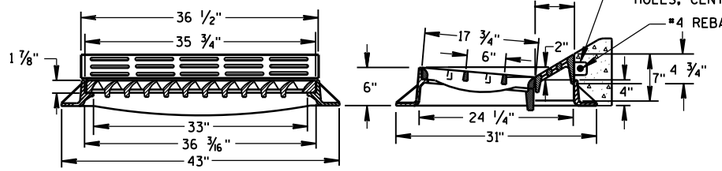
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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





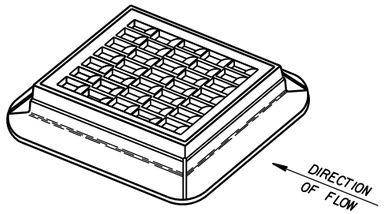
NOTE:
GRATE IS REVERSIBLE.

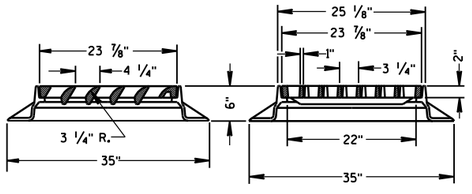


TYPE "HM"

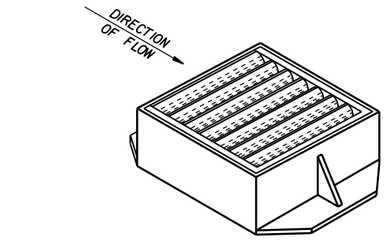
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

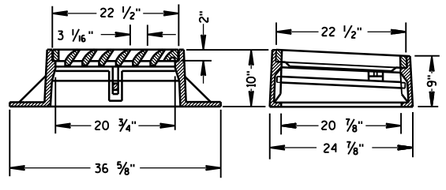
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



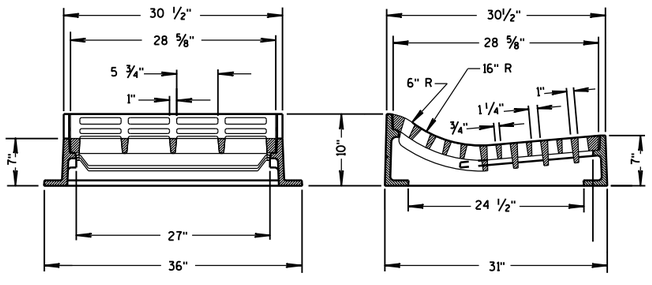


TYPE "S"



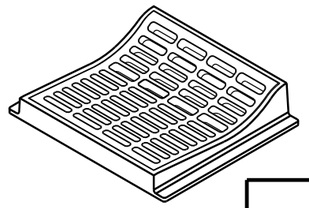


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

615

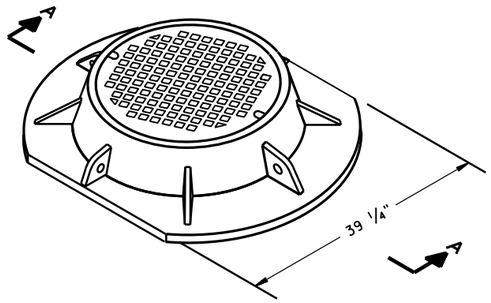
FHWA

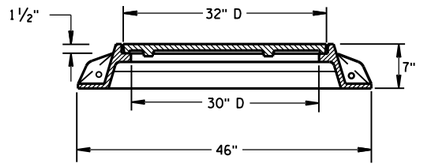
6

S.D.D. 8 A 5-19c

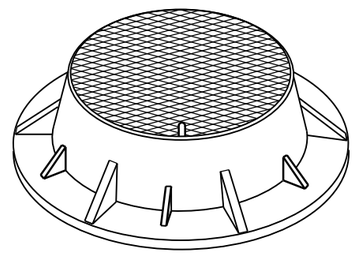
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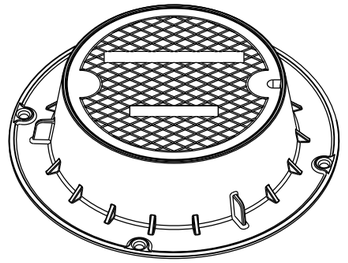
S.D.D. 8 A 5-19c

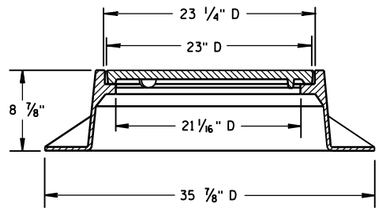


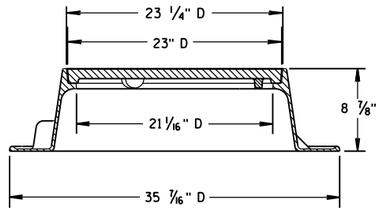


SECTION A-A
TYPE "K"









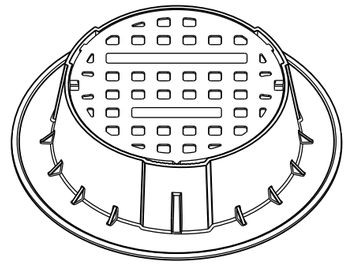
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

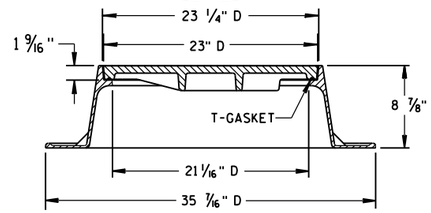
GENERAL NOTES

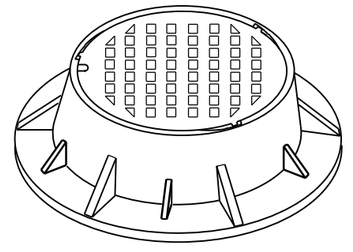
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

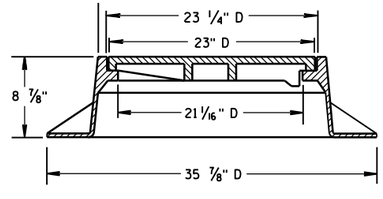
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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

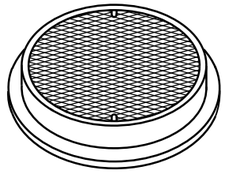


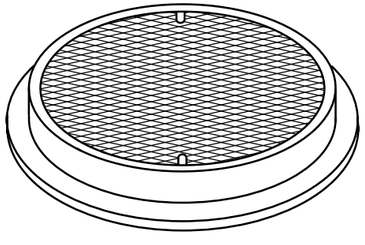


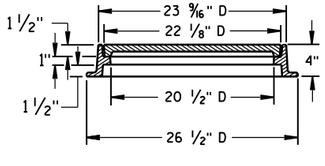




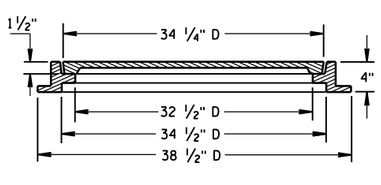
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



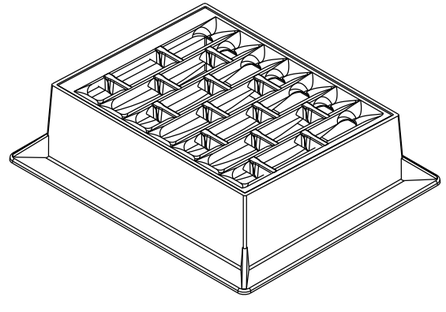


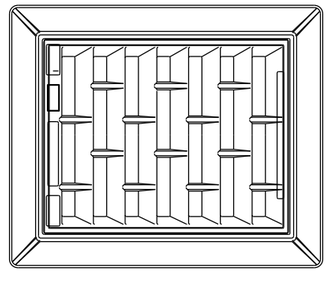


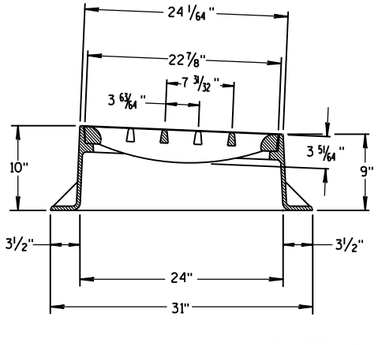
TYPE "L"

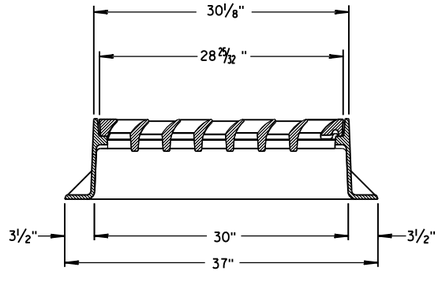


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

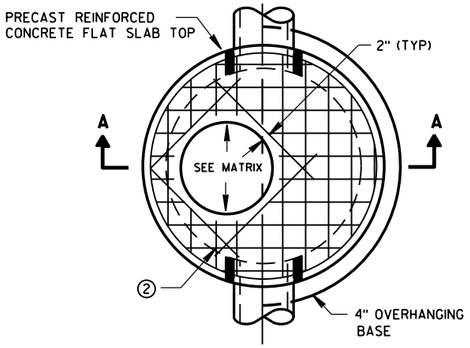
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

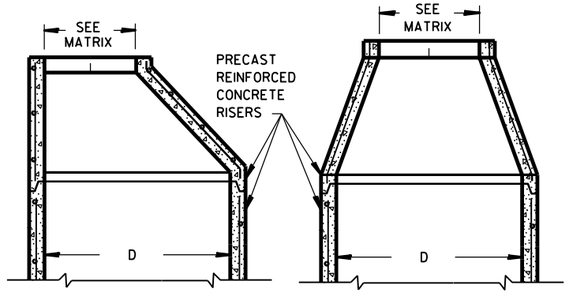
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 8 A 5-19d

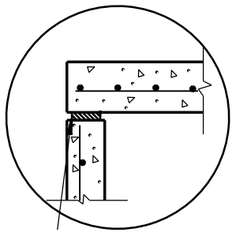


PLAN VIEW CIRCULAR OPENING

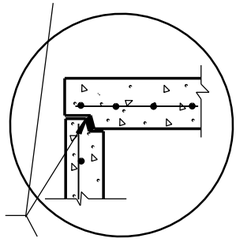


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

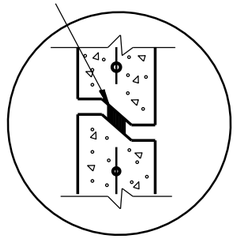


TOP WITH PLAIN END JOINT



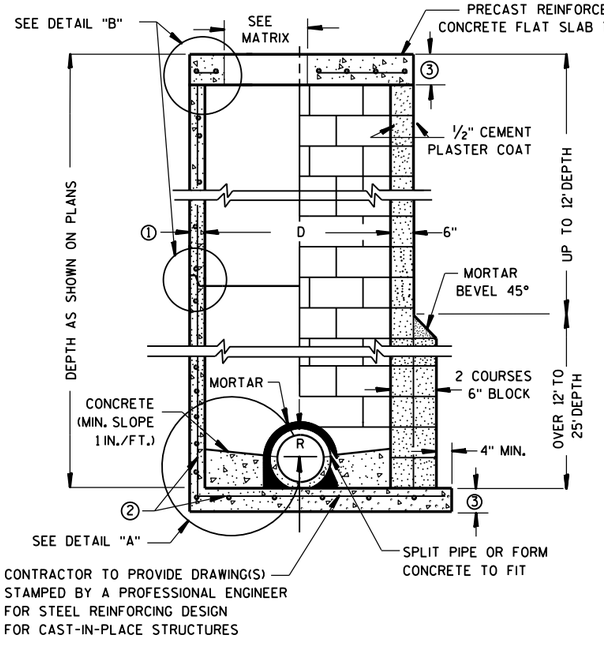
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



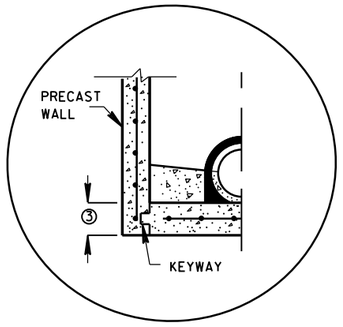
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

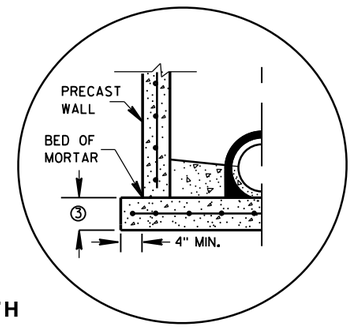


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

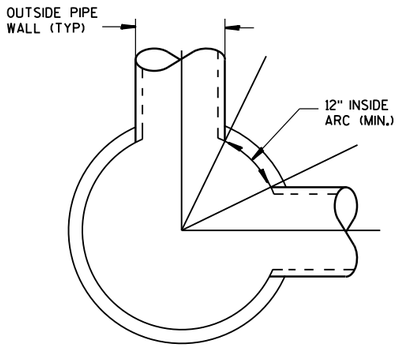


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND 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 DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" 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.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

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 "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2016
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

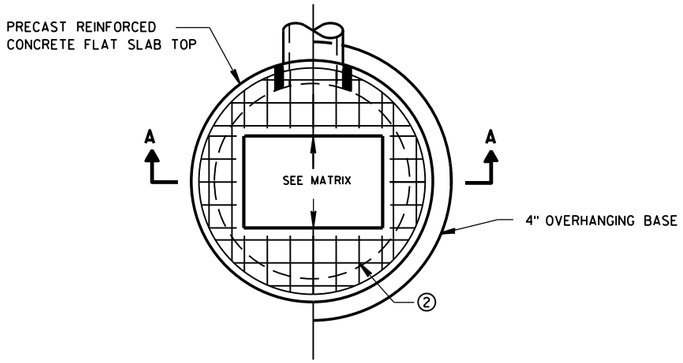
617

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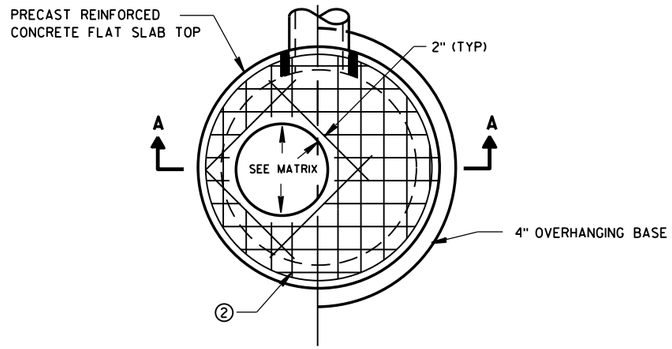
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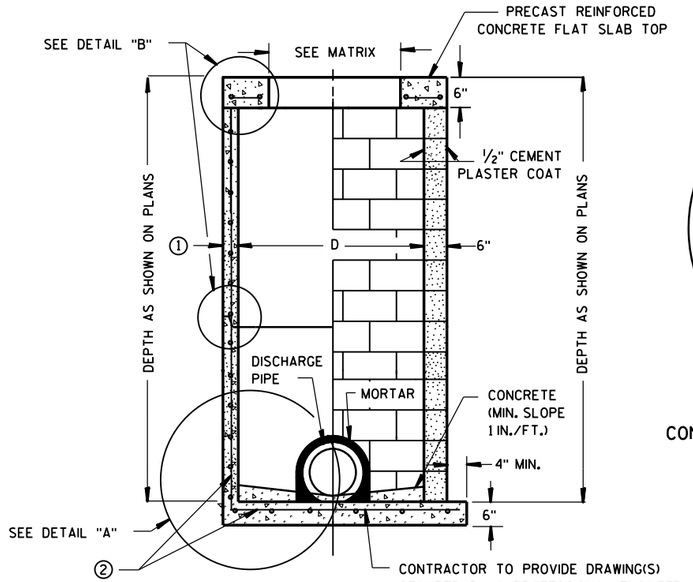
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PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

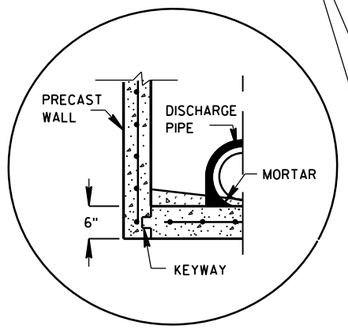


SECTION A-A

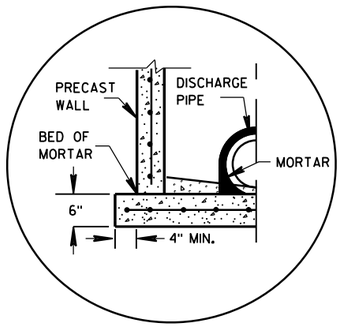
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

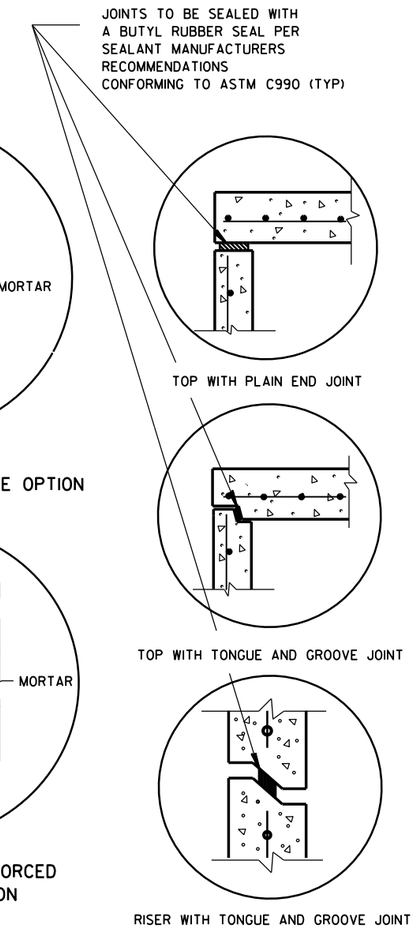


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



TOP WITH PLAIN END JOINT

TOP WITH TONGUE AND GROOVE JOINT

RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

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.

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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.

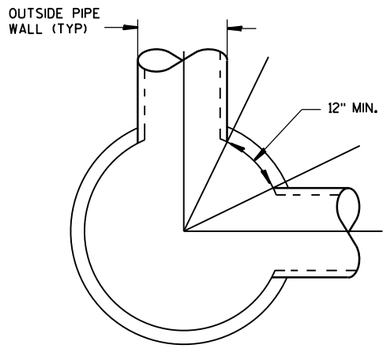
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

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

INLETS 3-FT AND 4-FT DIAMETER

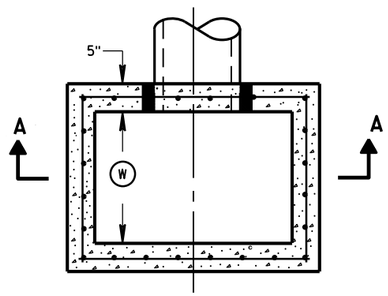
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept.. 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS | ENT
UNIT SUPERVI
FHWA

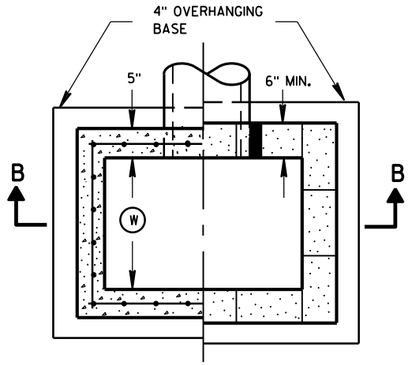
INLETS 3-FT AND 4-FT DIAMETER

6

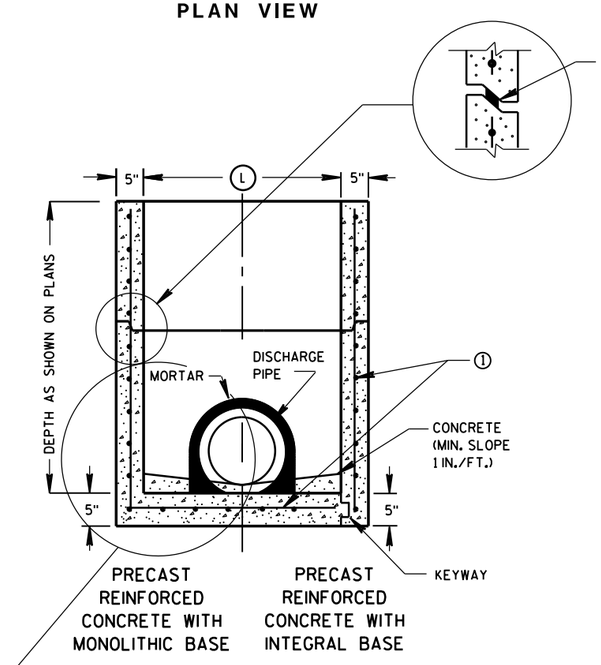
S.D.D. 8 C 6-2



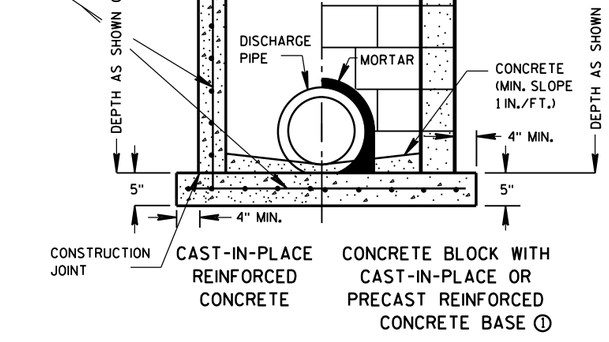
PLAN VIEW



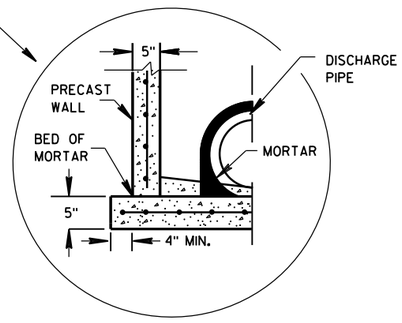
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

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.

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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 INCH 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 PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

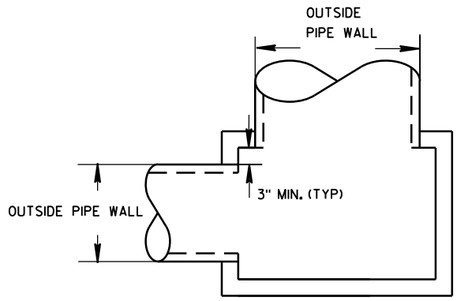
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



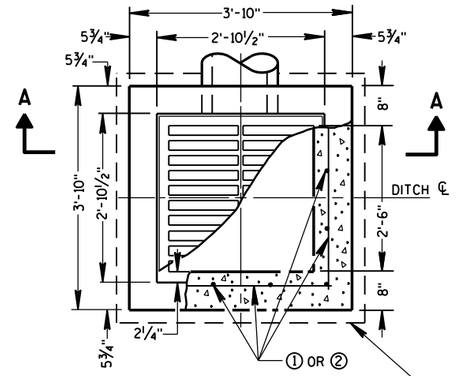
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

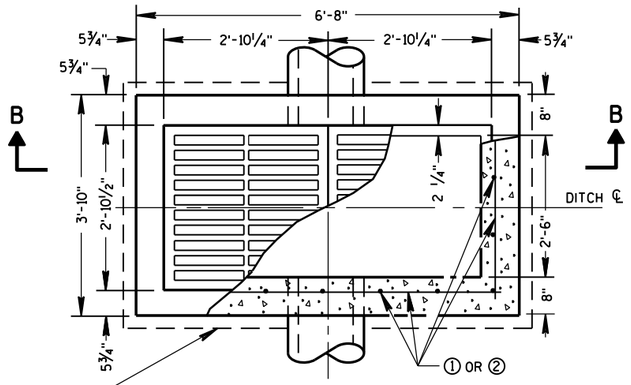
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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Sept., 2016 — DATE
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FHWA

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

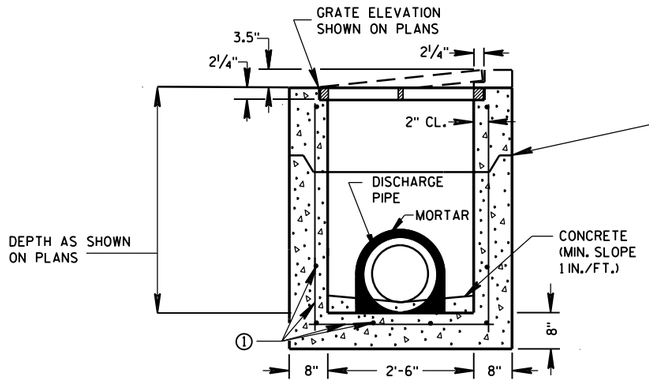


PLAN VIEW

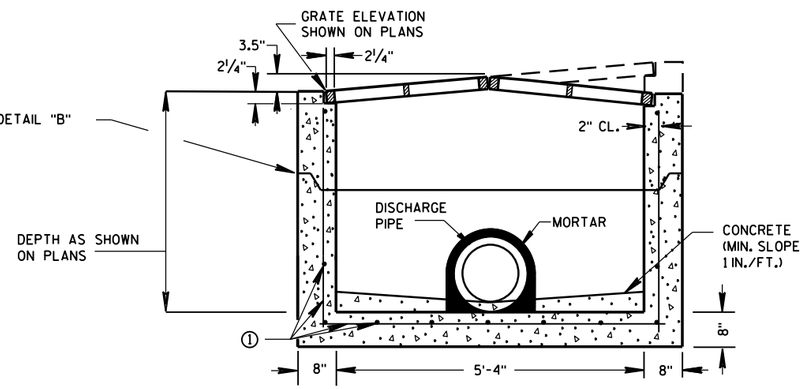


PLAN VIEW

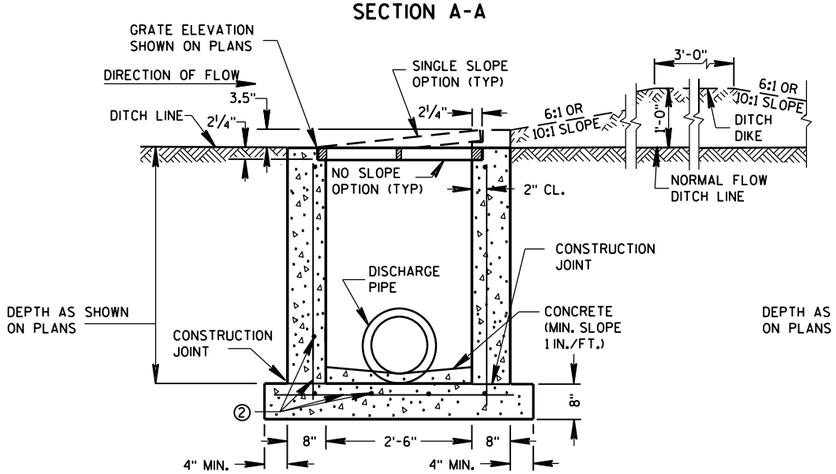
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



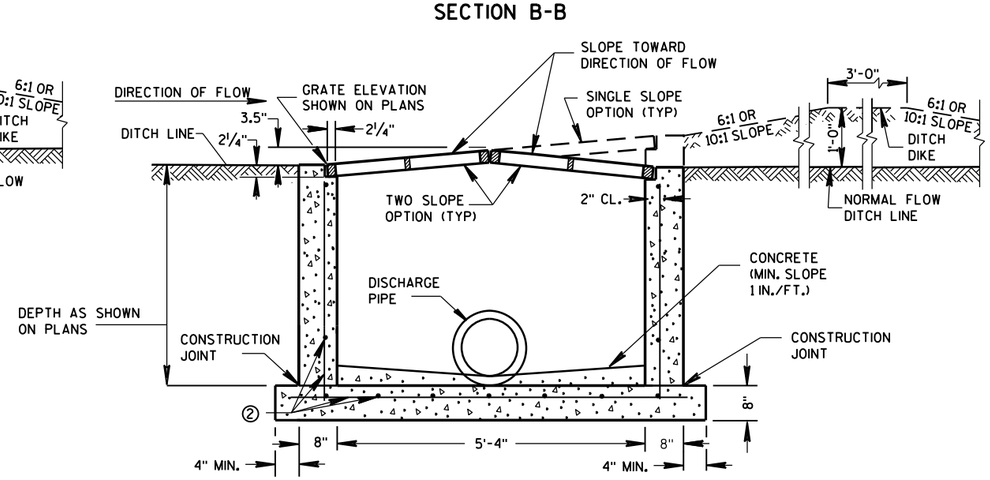
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

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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, IG-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.

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ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

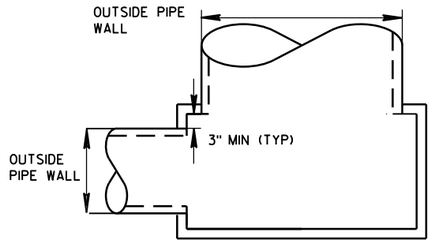
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS 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.

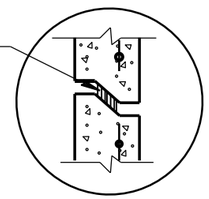
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



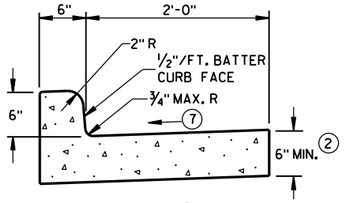
DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

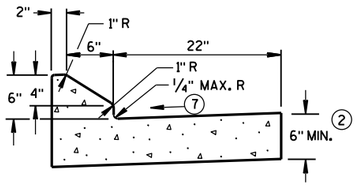
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI ENT
FHWA

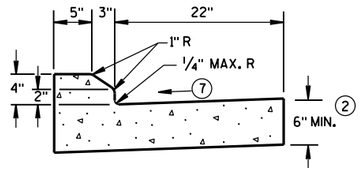
6
S.D.D. 8 C 8-2



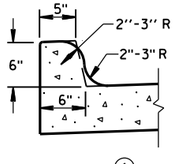
TYPES A (1) & D



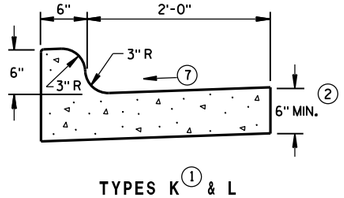
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

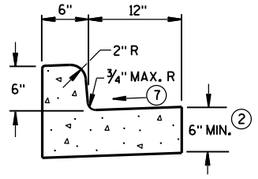


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



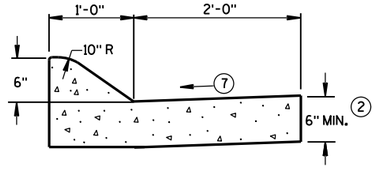
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

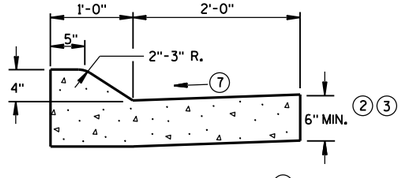


TYPES A (1) & D

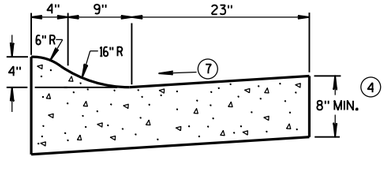
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

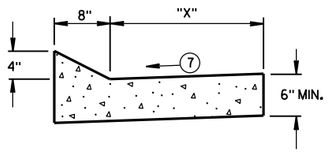


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

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

GENERAL NOTES

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

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

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

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

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

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

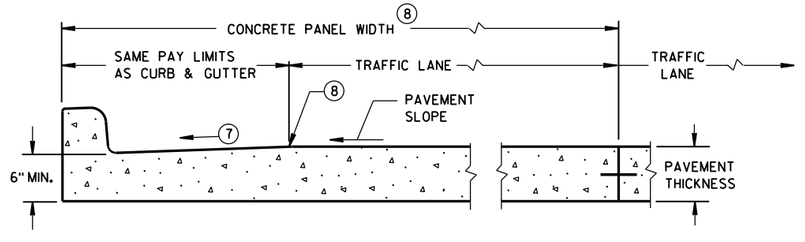
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

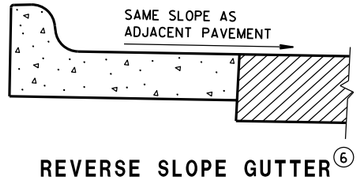
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB & GUTTER

* BIKE LANE IS NOT SHOWN.



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

CONCRETE CURB & GUTTER

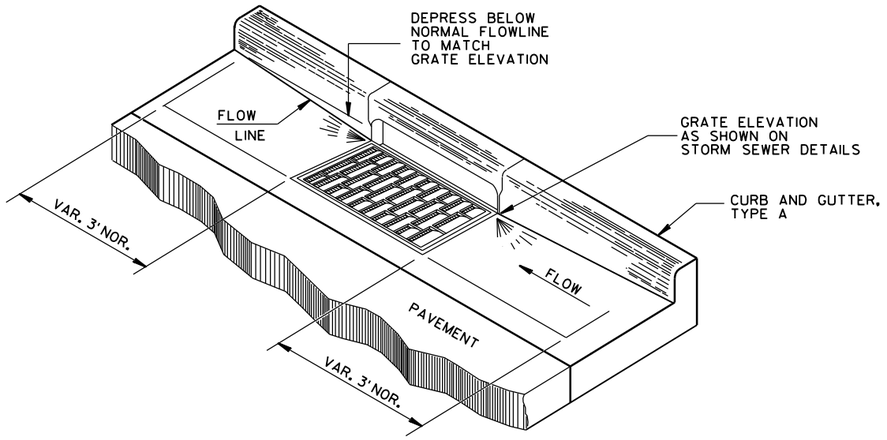
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

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S.D.D. 8 D 1-20a

6

S.D.D. 8 D 1-20a



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

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

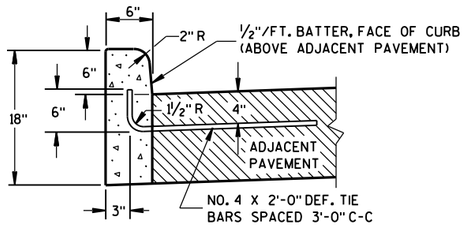
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

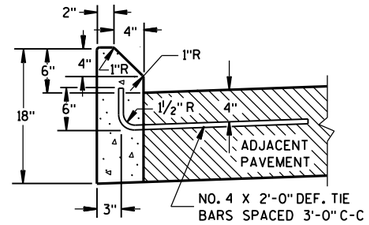
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

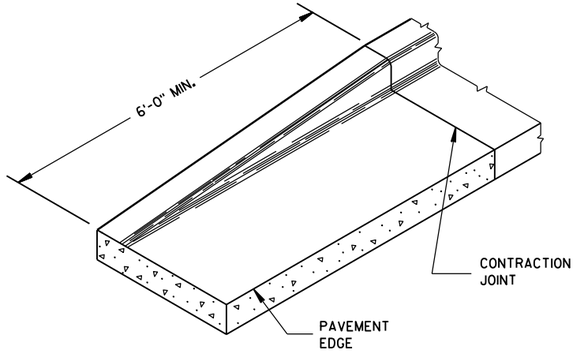


TYPES A(1) & D

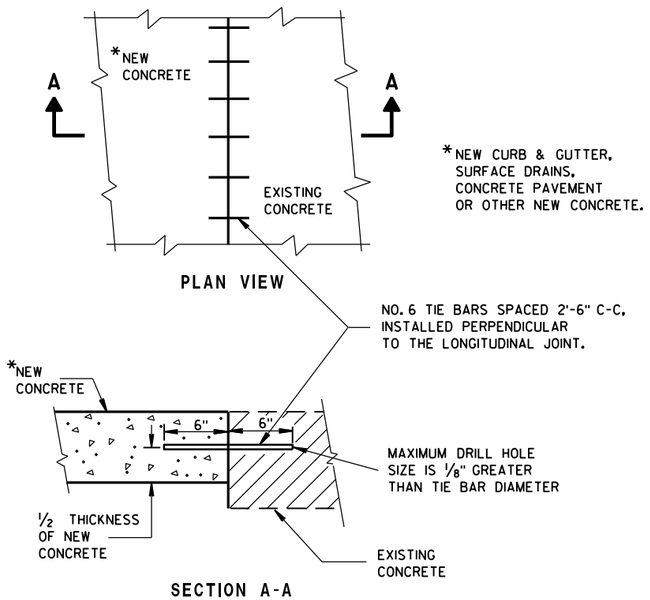


TYPES G(1) & J

CONCRETE CURB



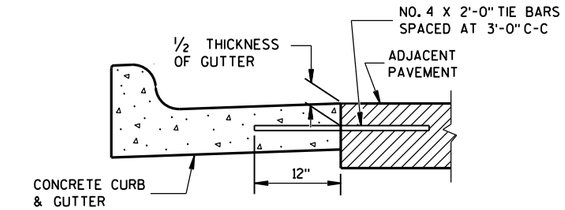
END SECTION CURB & GUTTER



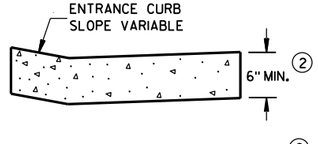
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

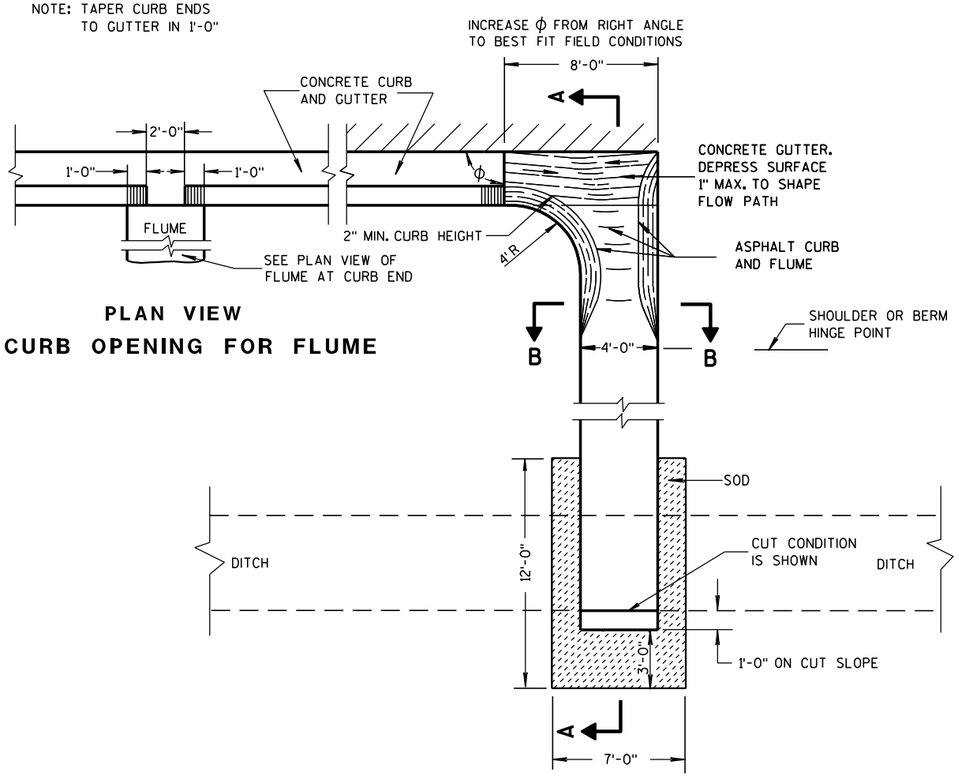
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS 622 ENT
UNIT SUPERVISOR
FHWA

6

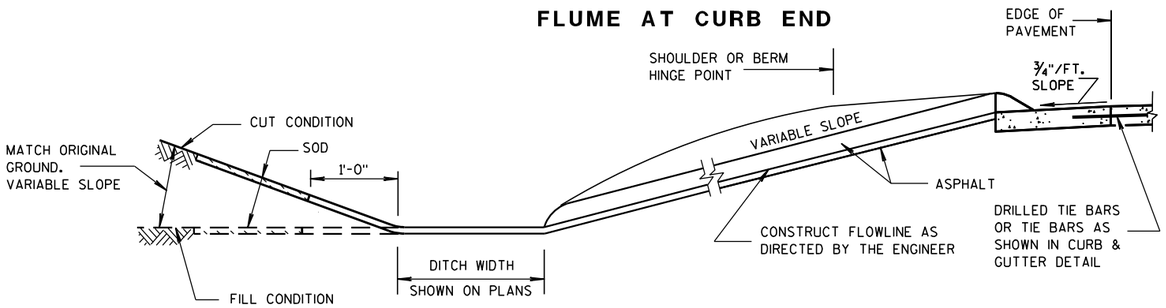
S.D.D. 8 D 1-20b

ASPHALTIC FLUME

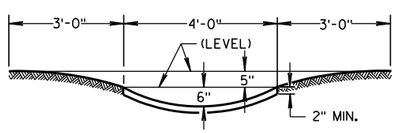


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

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.

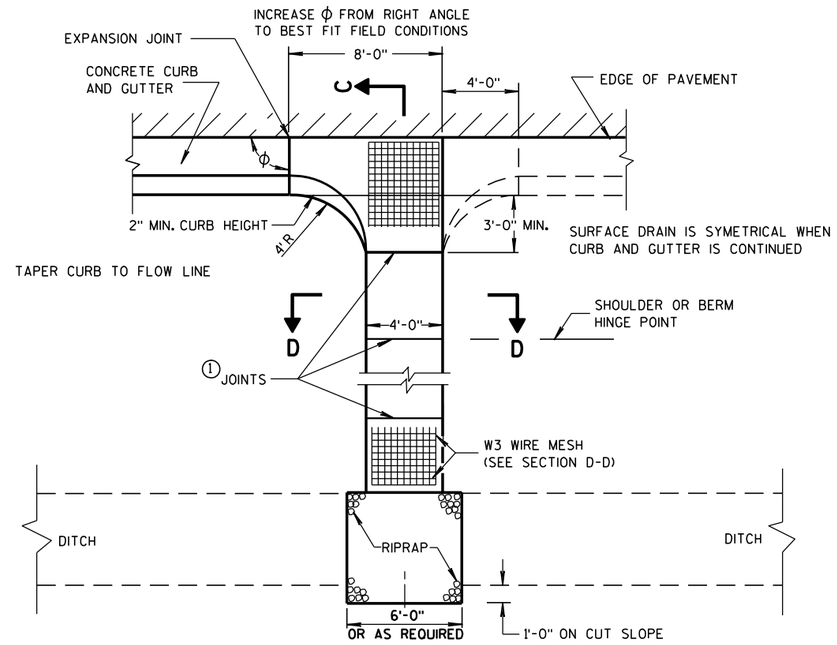
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE ⅛ TO ¼ INCH WIDE BY 1½ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

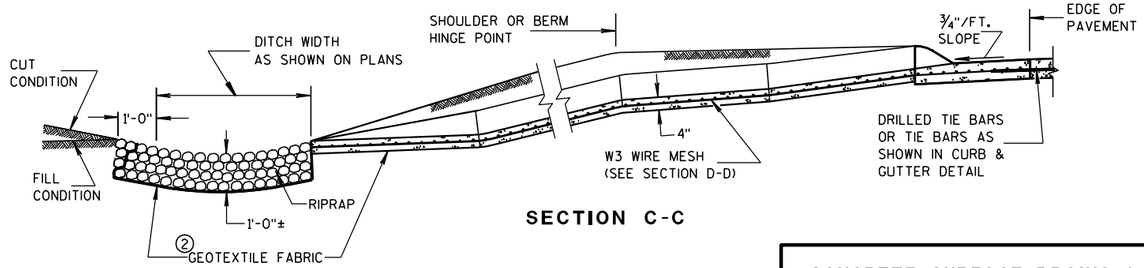
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

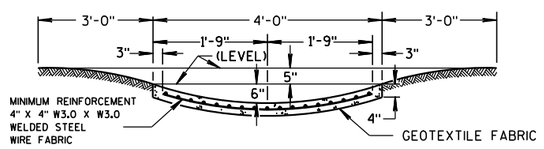
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

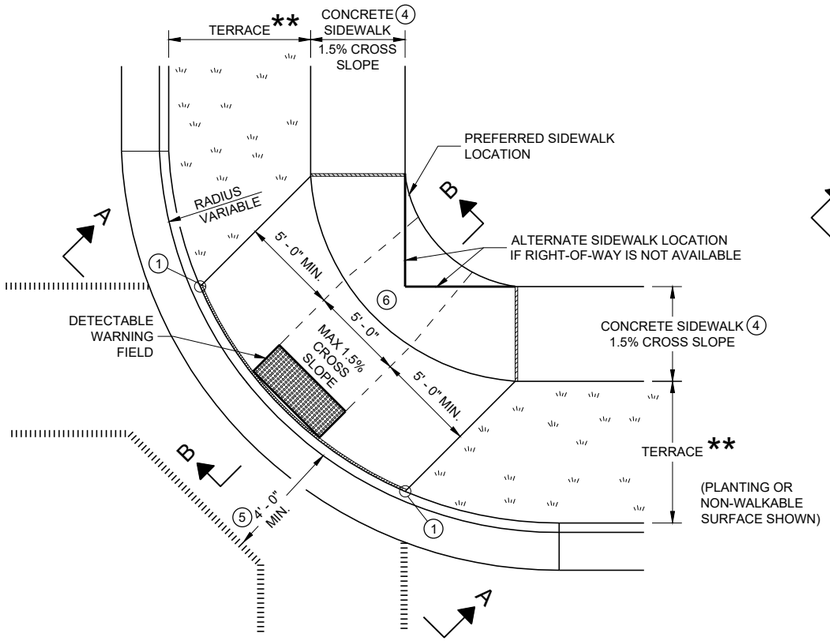
APPROVED
9-4-08 DATE
/S/ Jerry H. [illegible] ROADWAY STANDARDS ENGINEER
623 MENT
FHWA

6

S.D.D. 8 D 4-5

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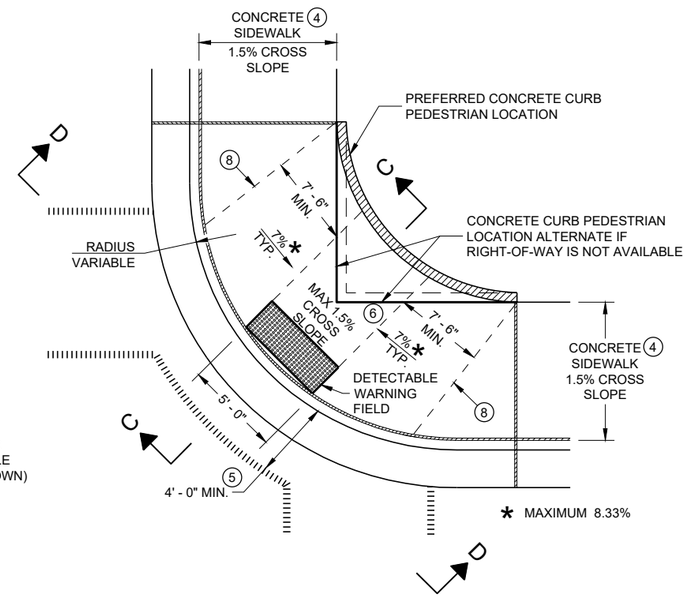
S.D.D. 8 D 4-5



PLAN VIEW

CURB RAMP TYPE 1

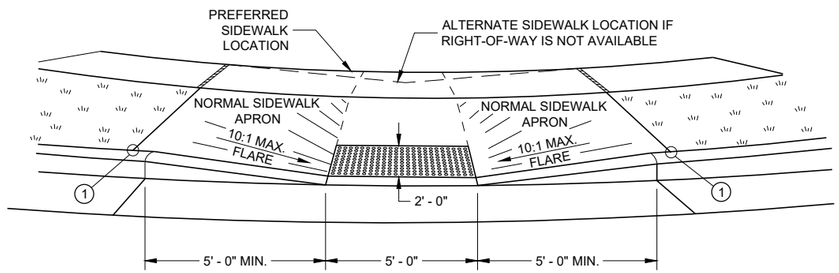
(CENTER OF CORNER RADIUS)



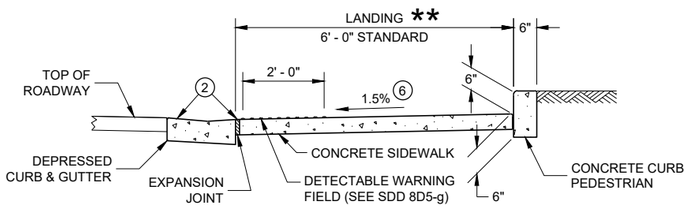
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

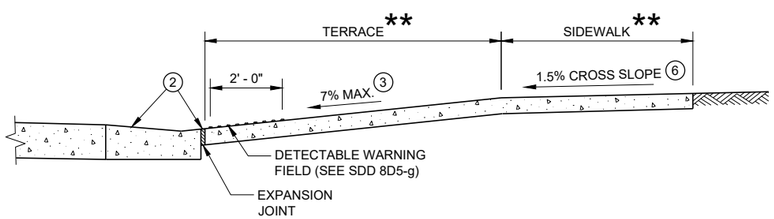


VIEW A - A FOR TYPE 1

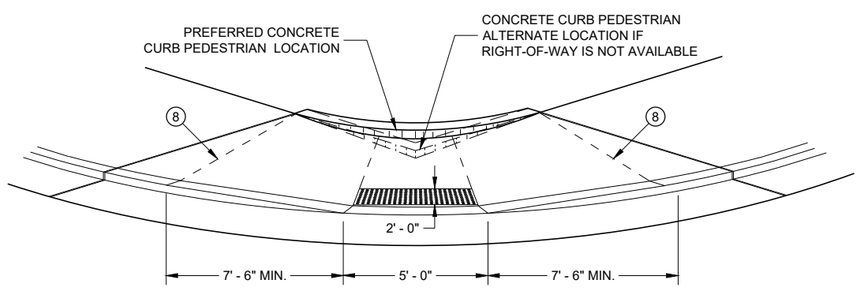


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



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 RAMP ACCESS AREAS.

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

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

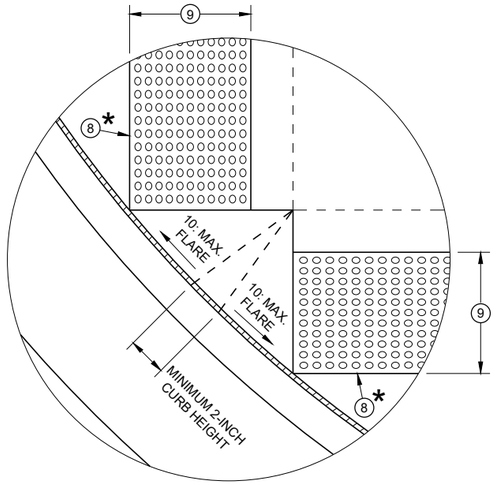
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

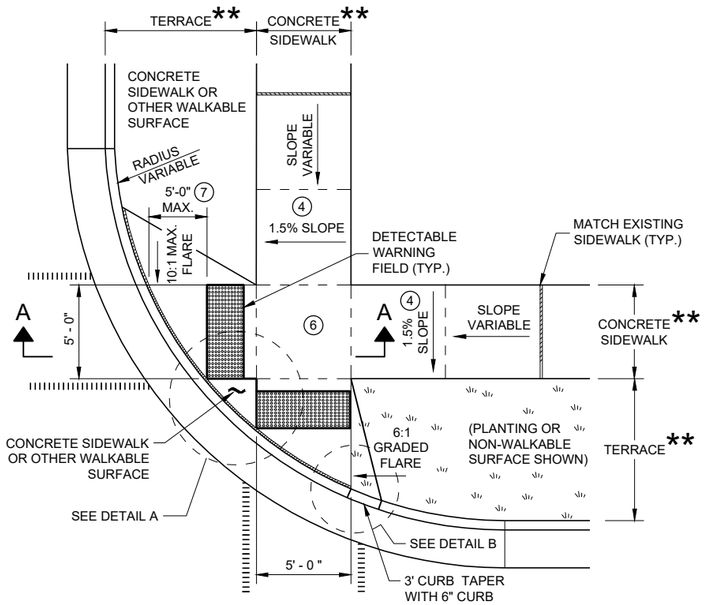
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20a



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

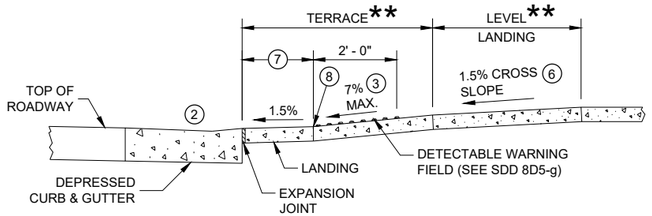
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

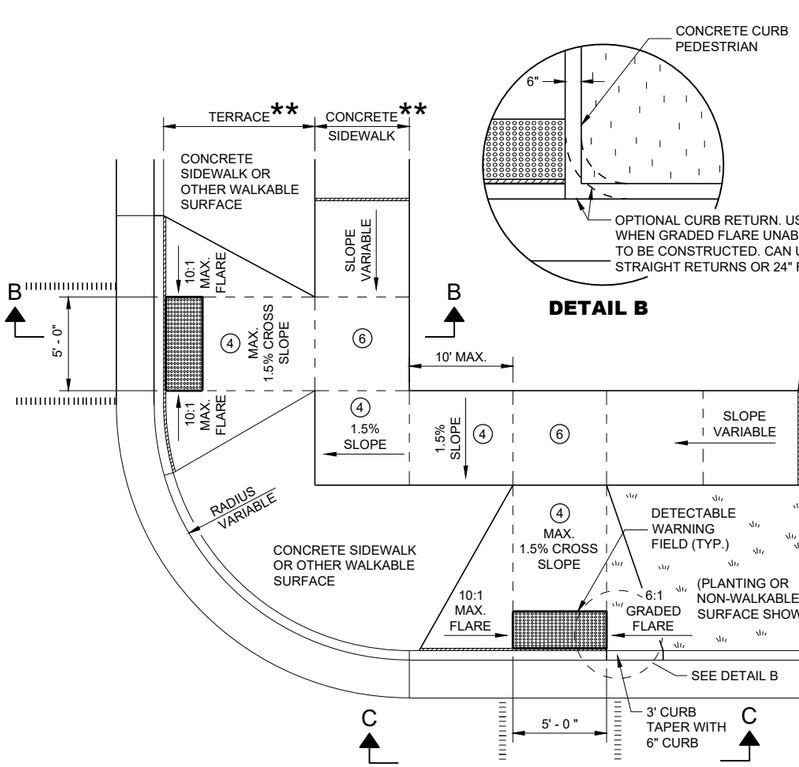
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

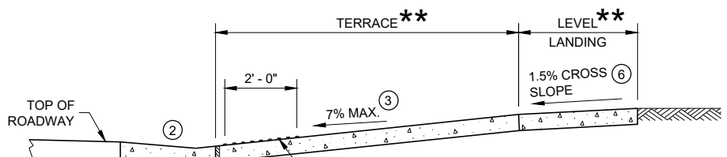
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS



DETAIL B

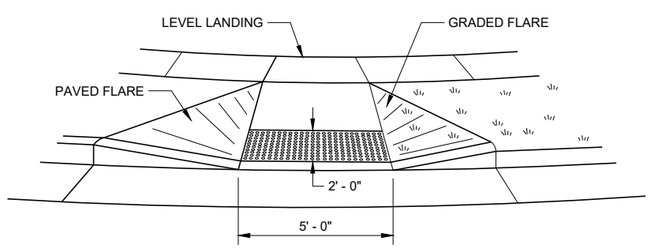
PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



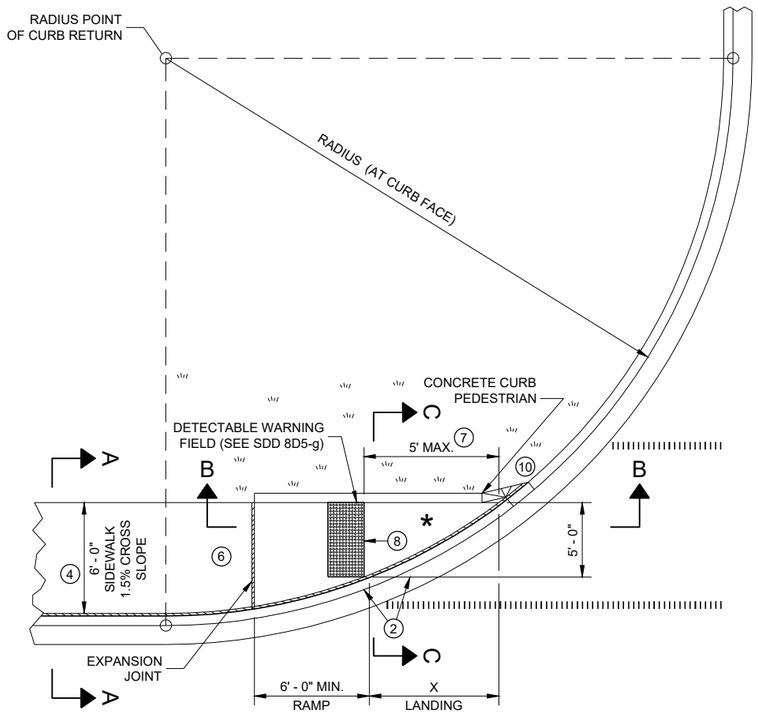
VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

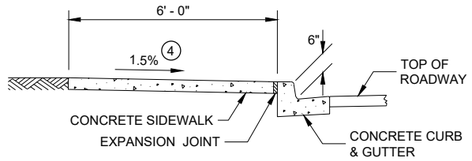


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

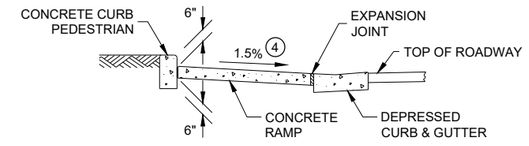
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

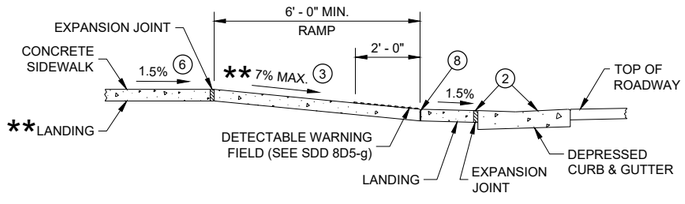
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



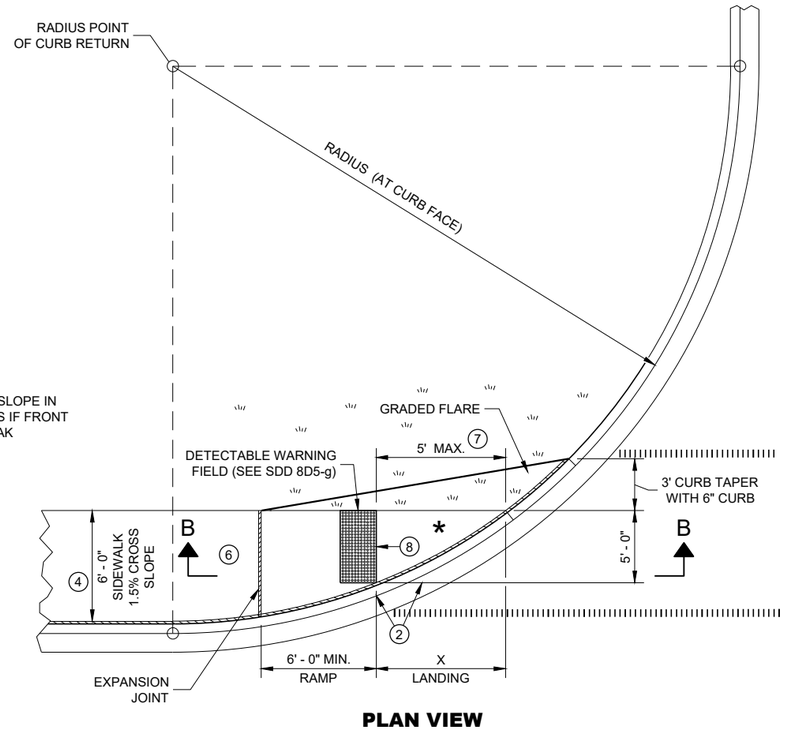
SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1

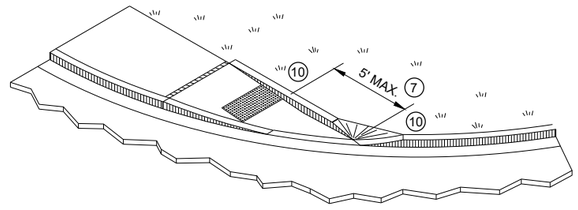
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

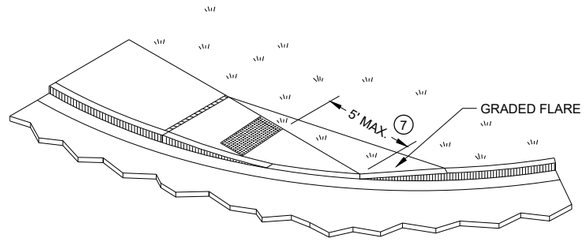


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



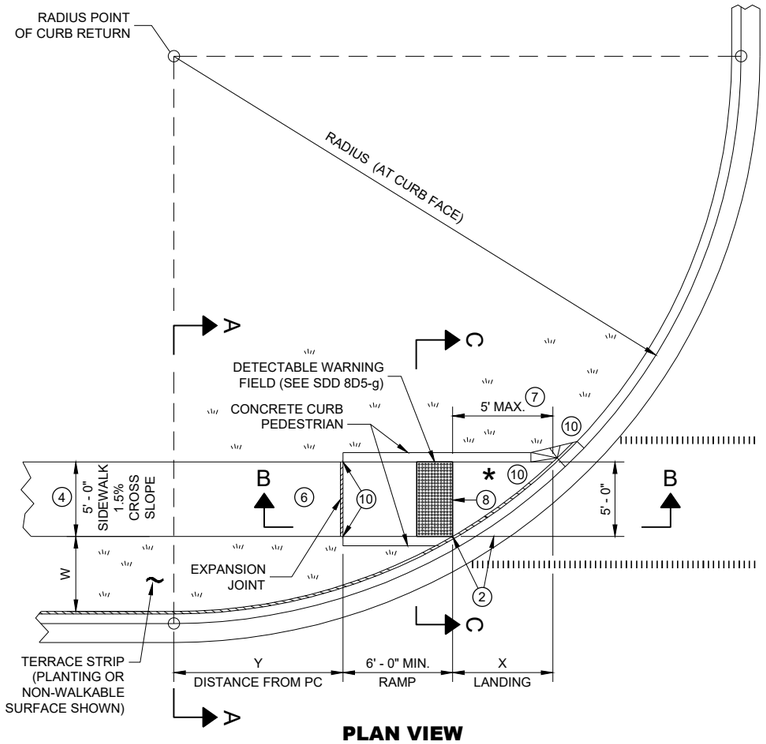
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20c



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	5' - 9 ¾"	3' - 6 ½"	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			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	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									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

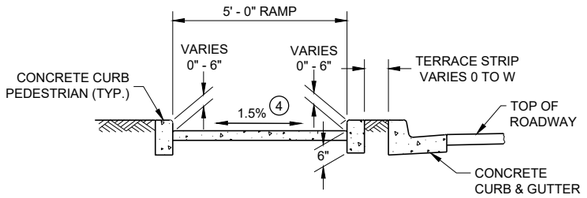
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

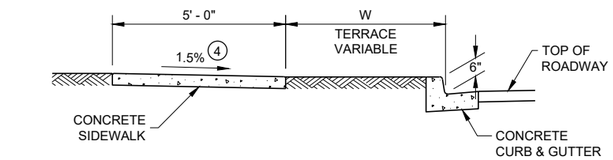
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

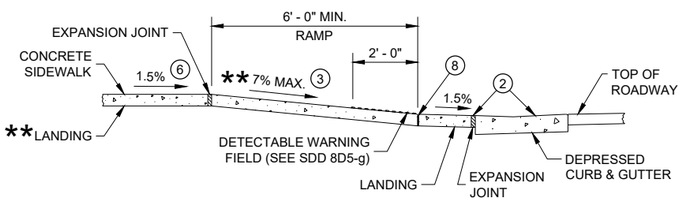
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



SECTION C - C FOR TYPE 4B

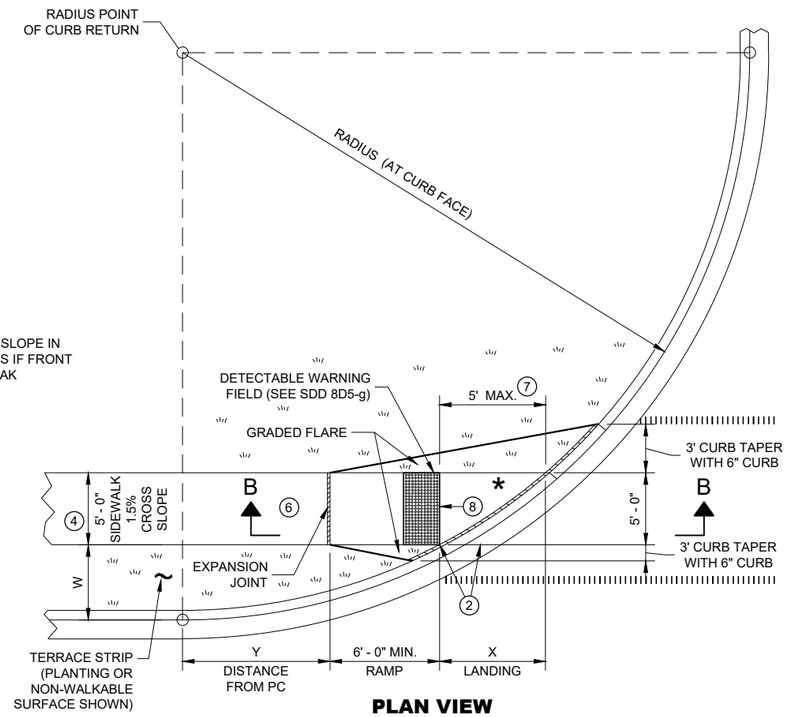


SECTION A - A FOR TYPE 4B



SECTION B - B FOR TYPE 4B AND TYPE 4B1

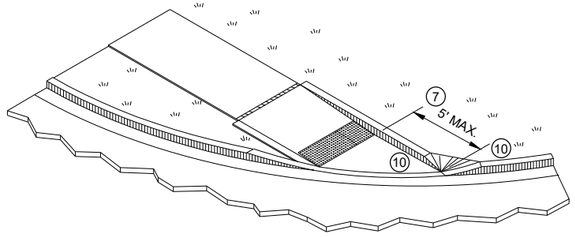
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED



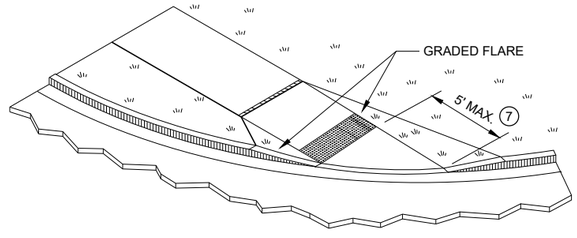
PLAN VIEW

CURB RAMP TYPE 4B1

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK



ISOMETRIC VIEW FOR TYPE 4B



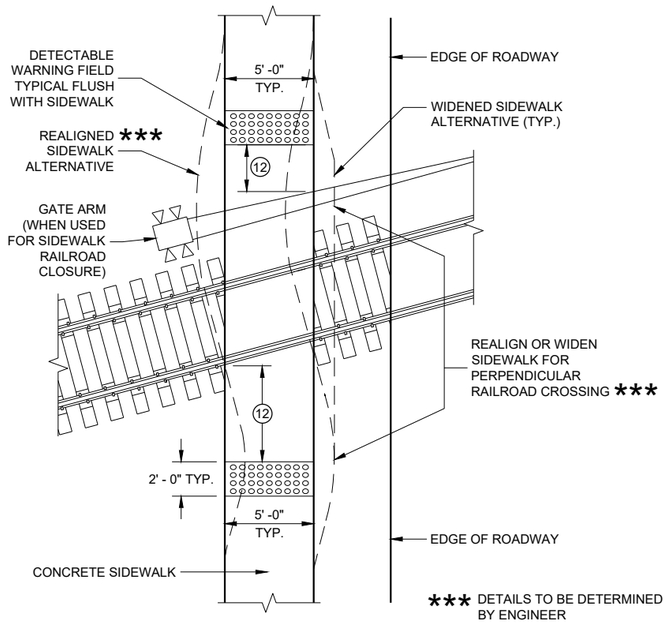
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

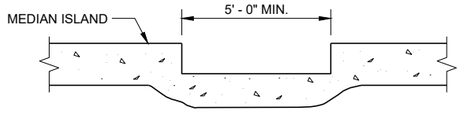
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SDD 08D05 - 20d

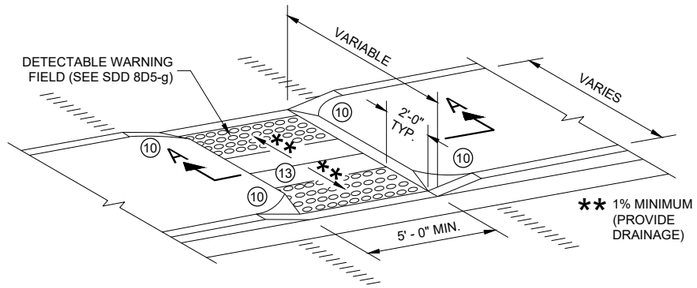


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

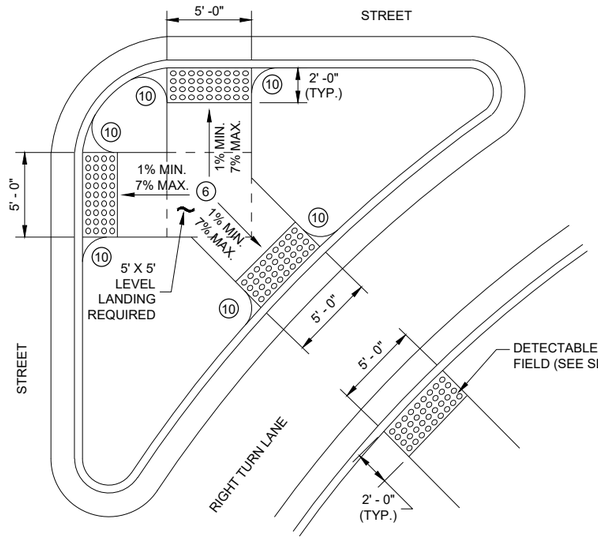
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 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.

LEGEND

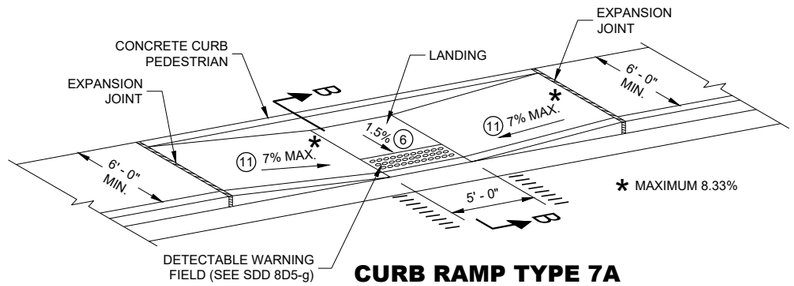
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

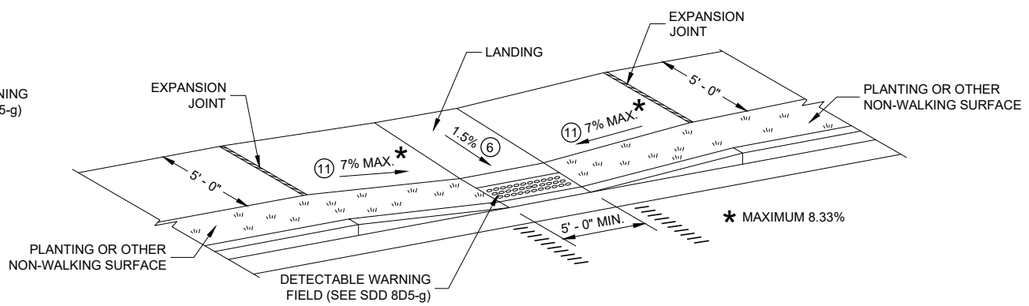
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

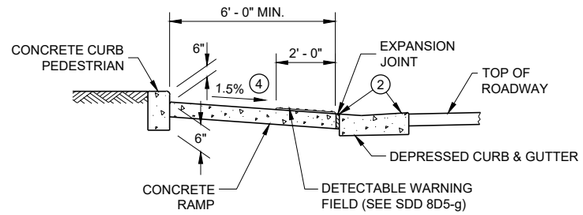
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

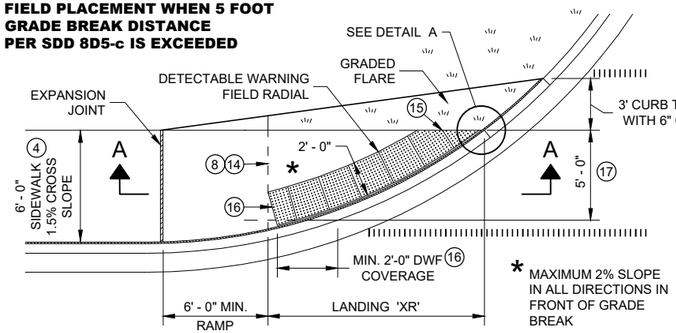
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20e

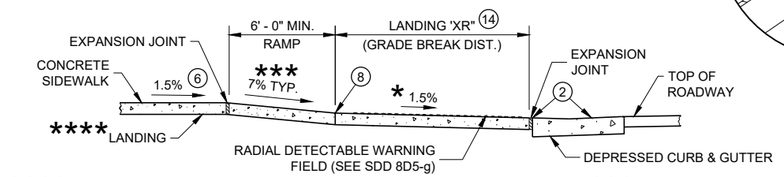
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

CURB RAMP TYPE 4A1

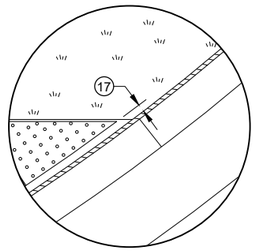
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1



DETAIL A

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

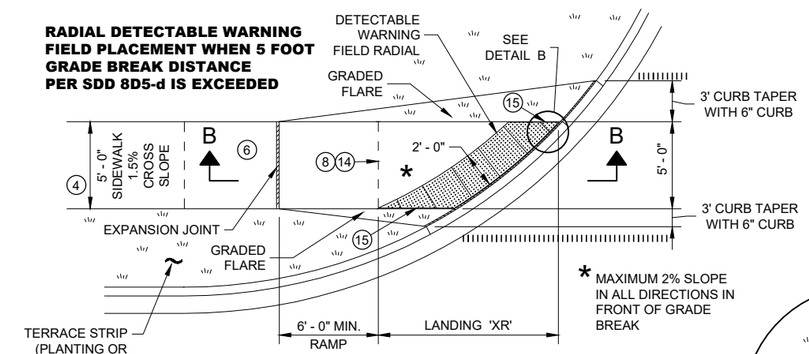
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

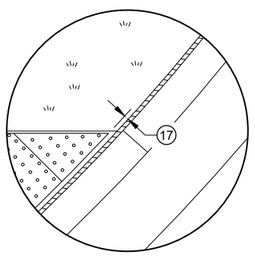
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



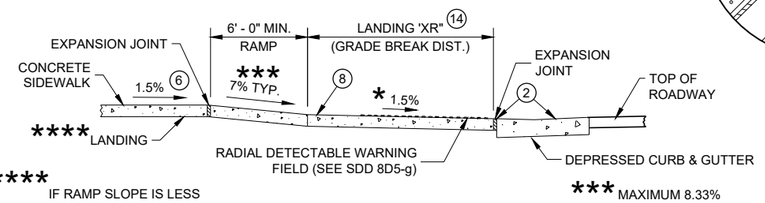
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B

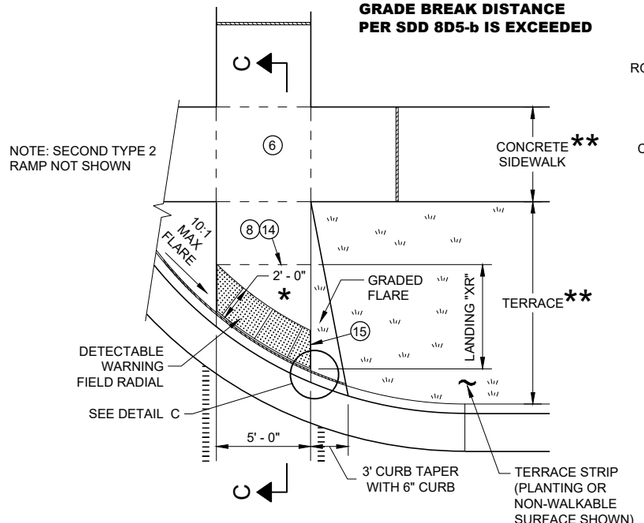


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

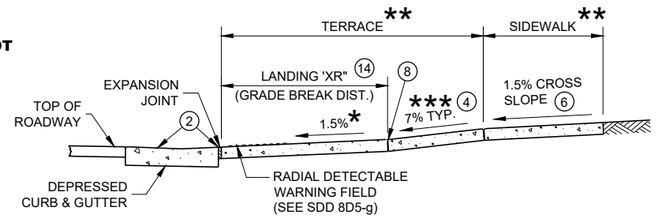


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

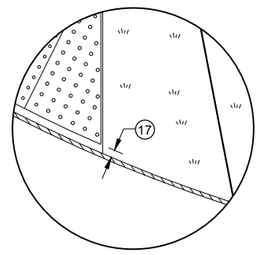


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

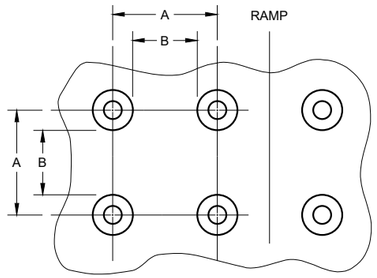
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

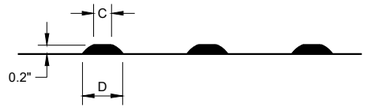
SDD 08D05 - 20f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

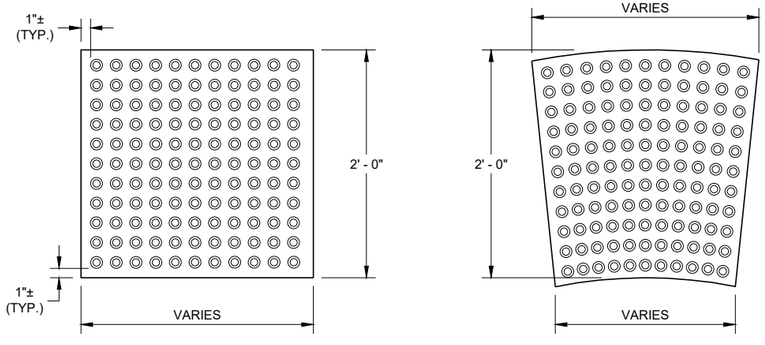


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

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.

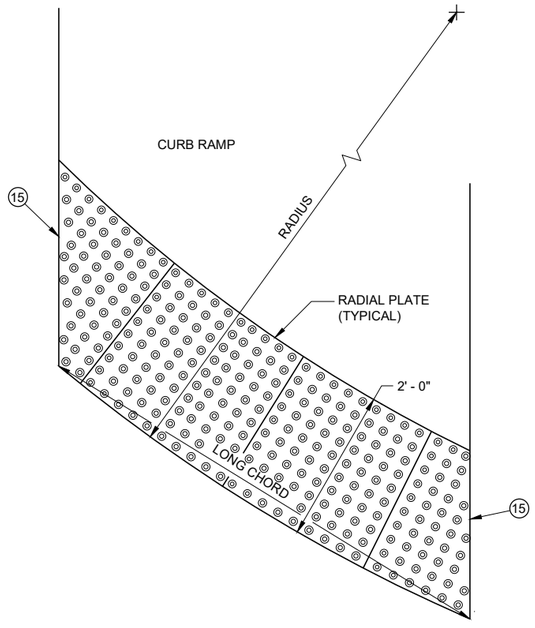
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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.

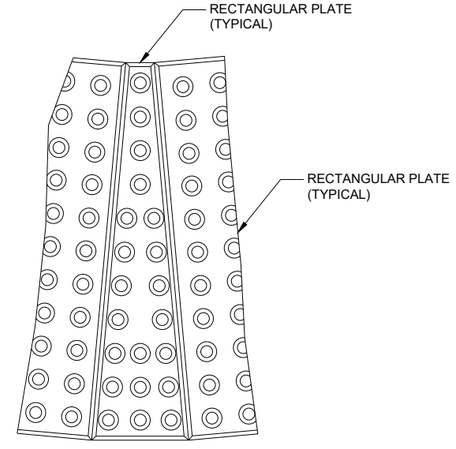
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

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.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

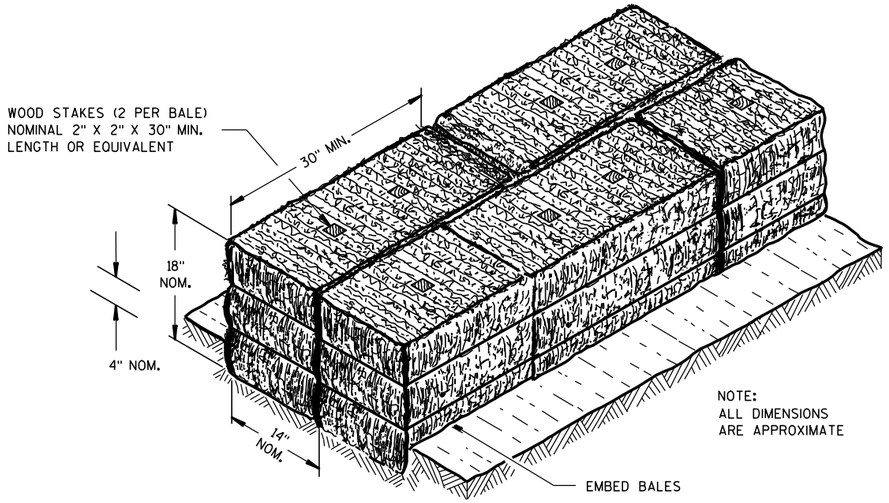
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

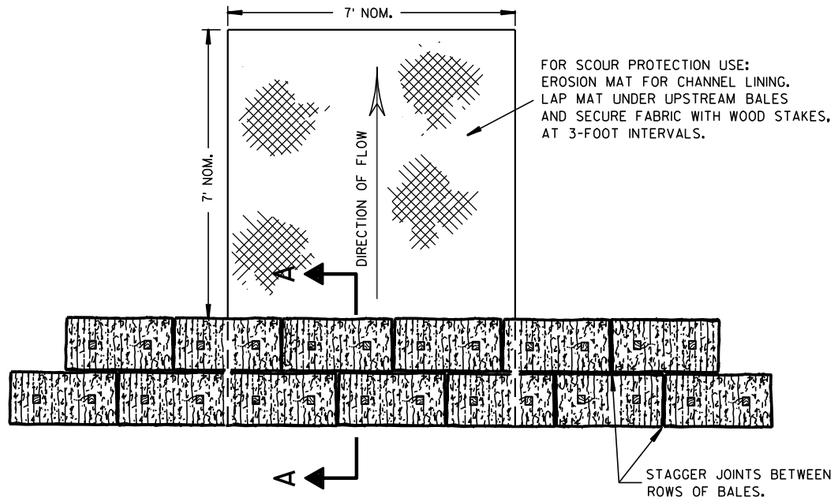
FHWA

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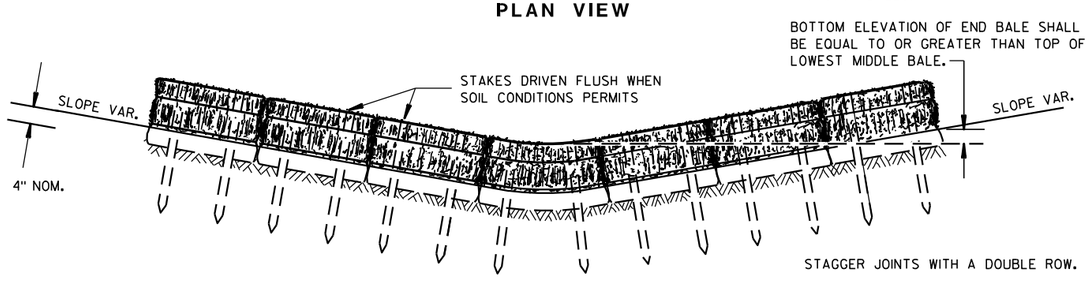
SDD 08D05 - 20g



SECTION A-A



PLAN VIEW



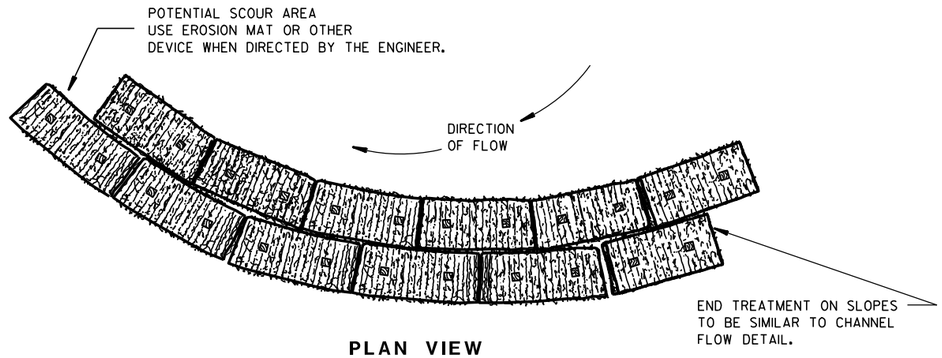
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

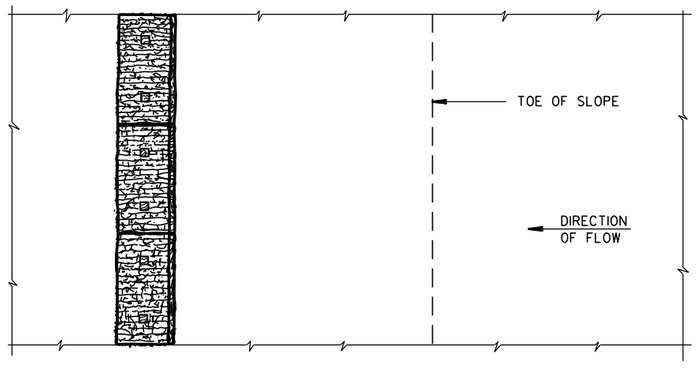
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

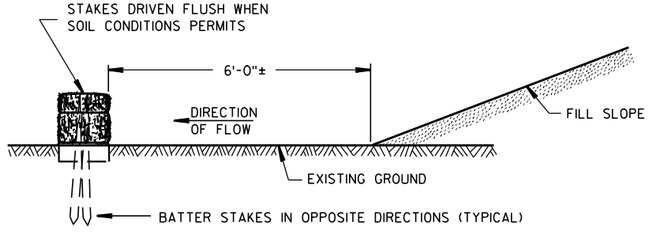


PLAN VIEW

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

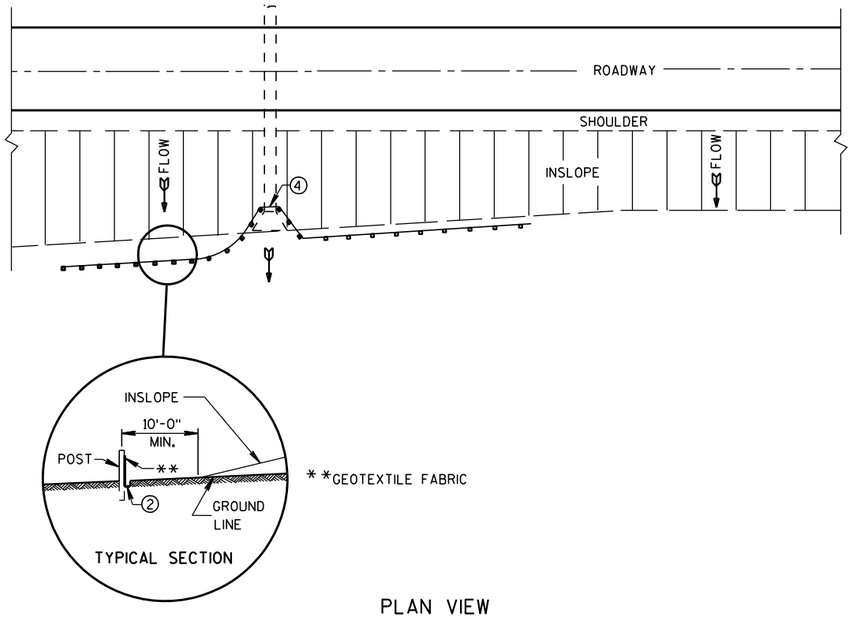
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S.D.D. 8 E 8-3

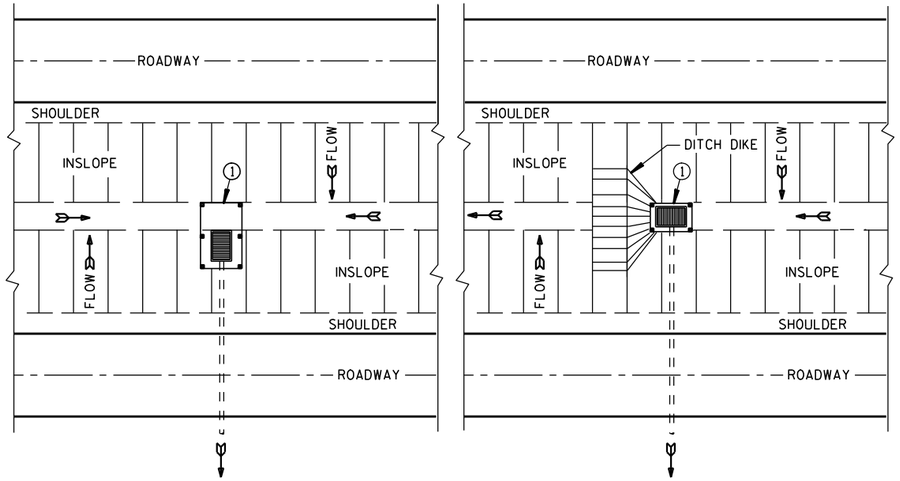
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

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

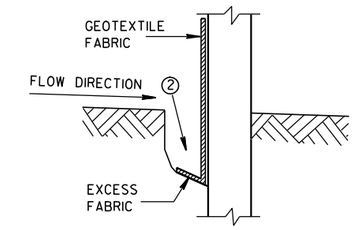
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

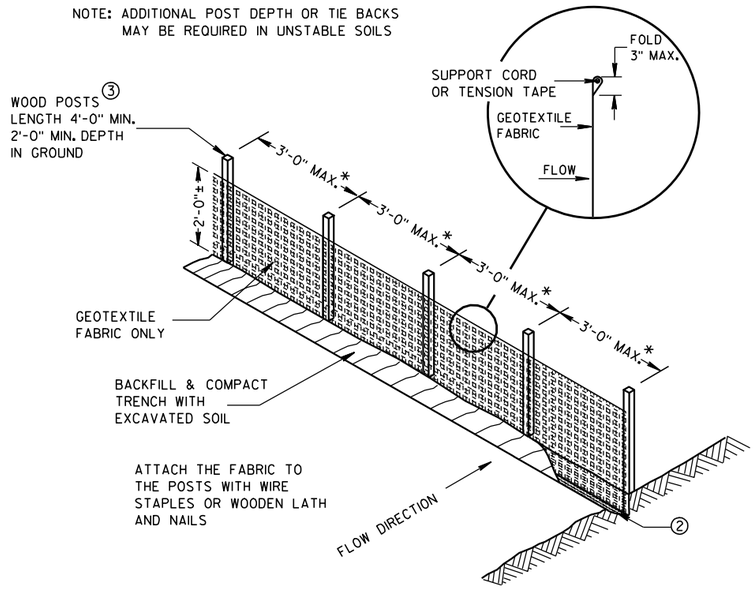
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

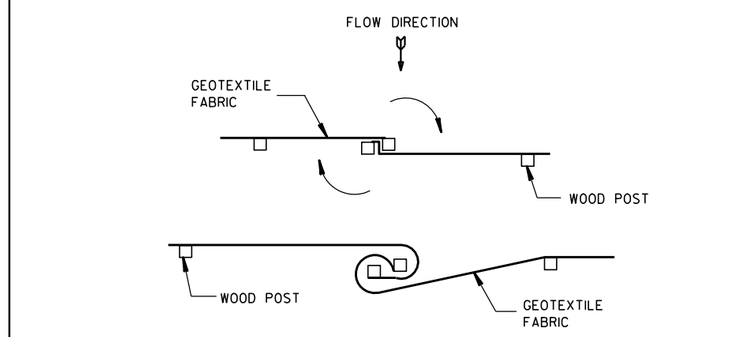


TRENCH DETAIL

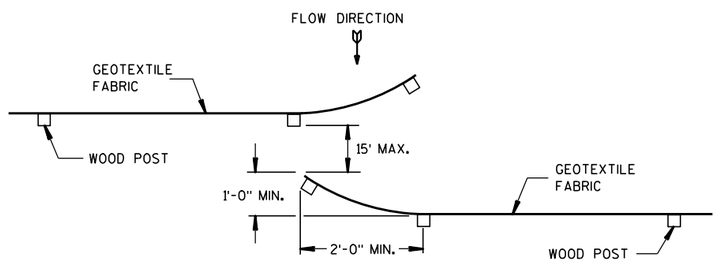


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

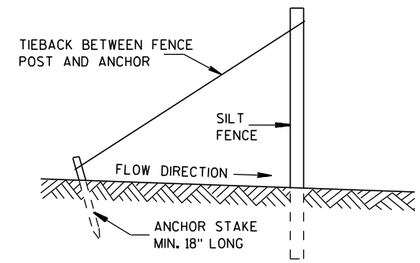


TWIST METHOD



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

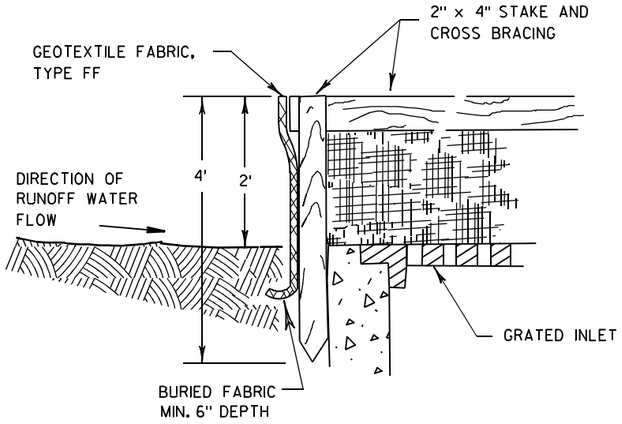
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

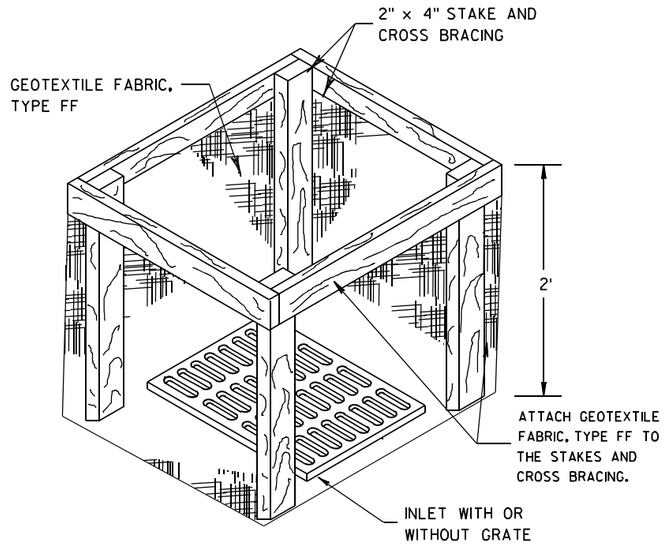
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S.D.D. 8 E 9-6

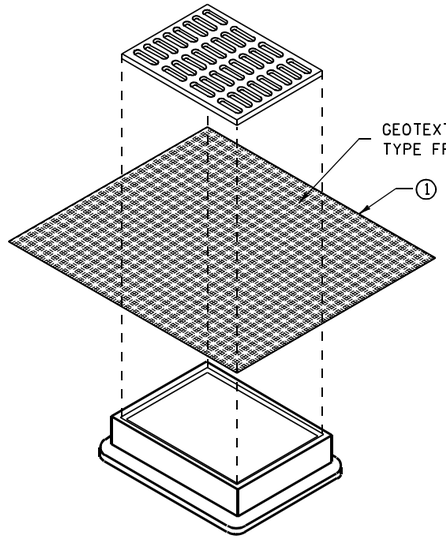
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S.D.D. 8 E 9-6



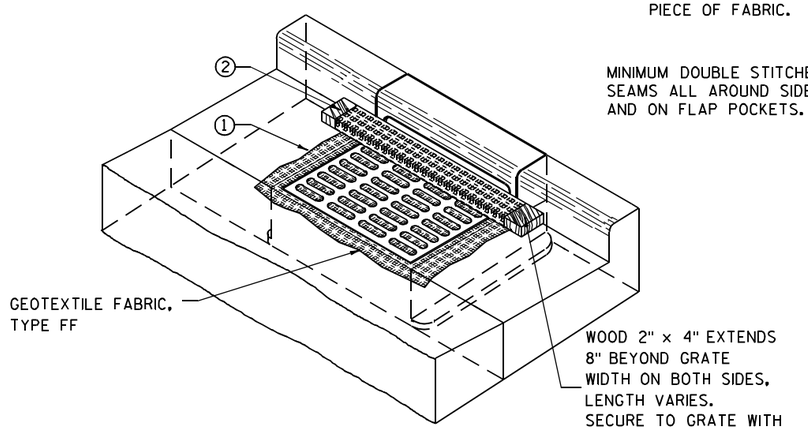


INLET PROTECTION, TYPE A

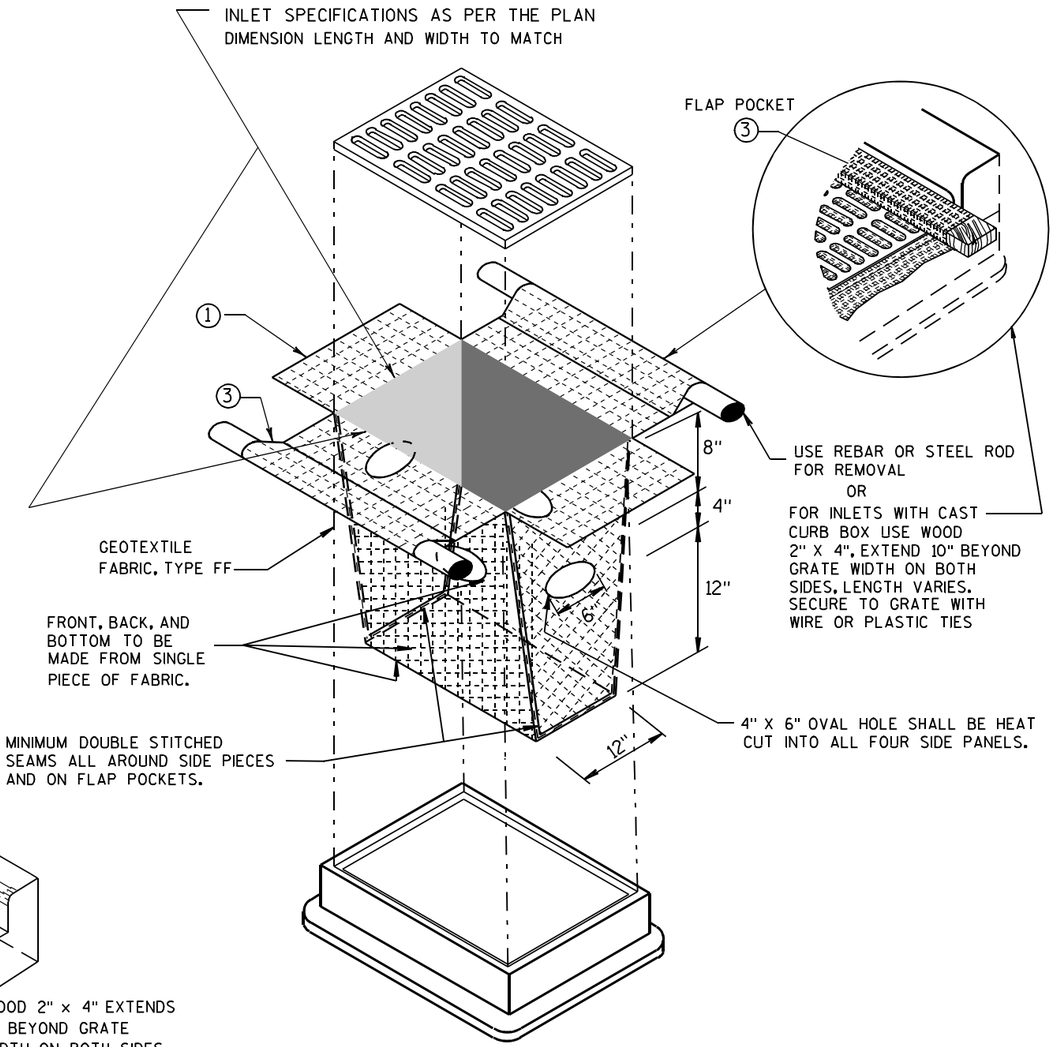


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

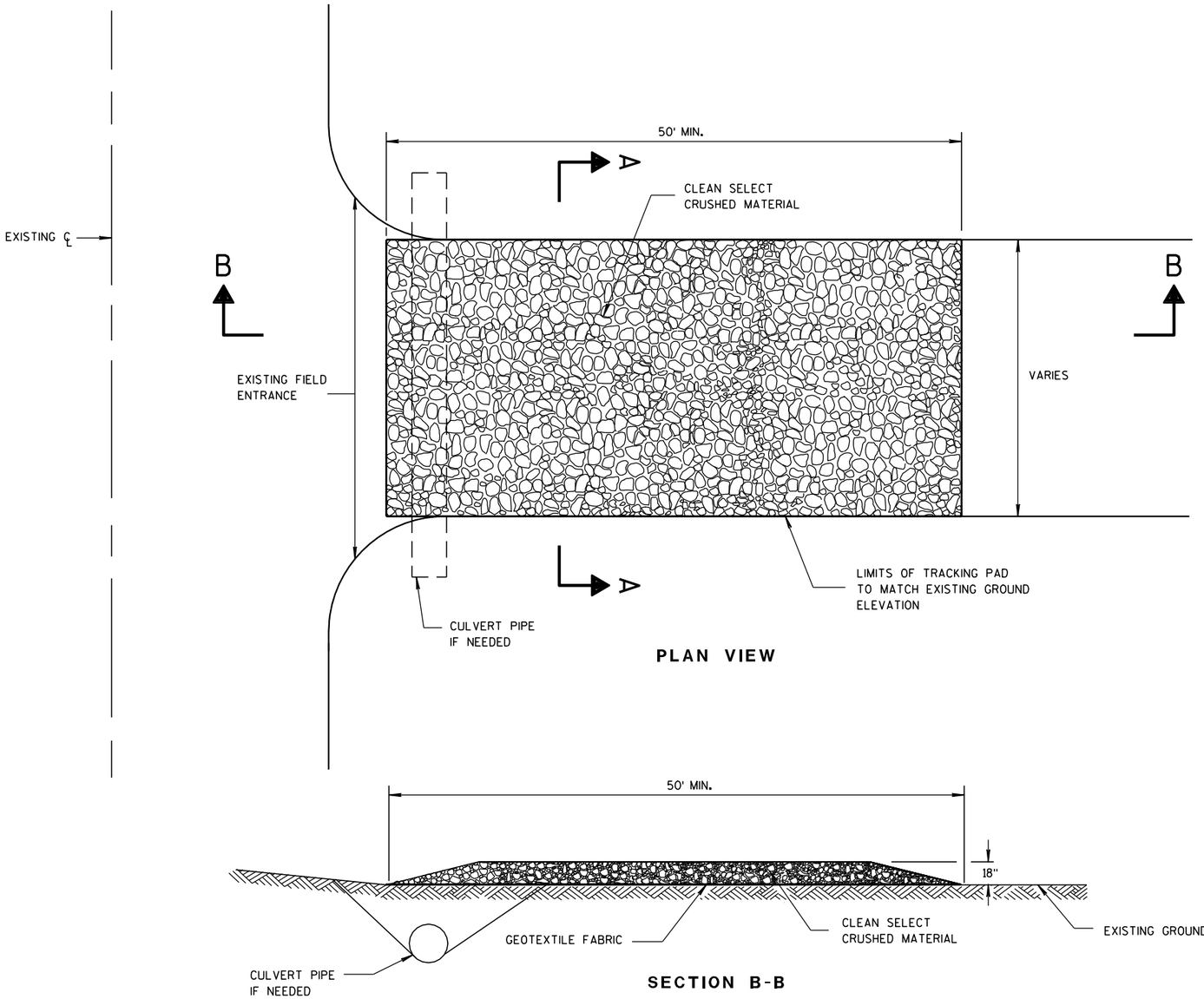
FHWA

6

S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-B

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

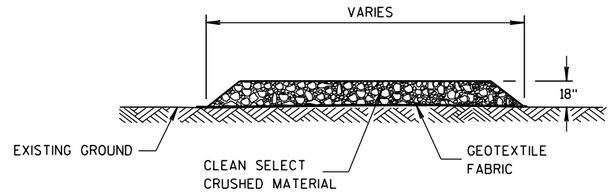
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

6

S.D.D. 8 E 14-1

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

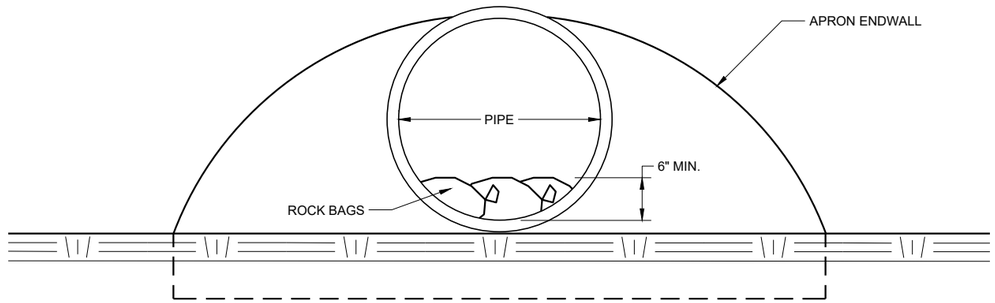
APPROVED

3/24/2011	/S/ Jerry H. Zoda	
DATE	ROADWAY STANDARDS ENGINEER 634	ENT

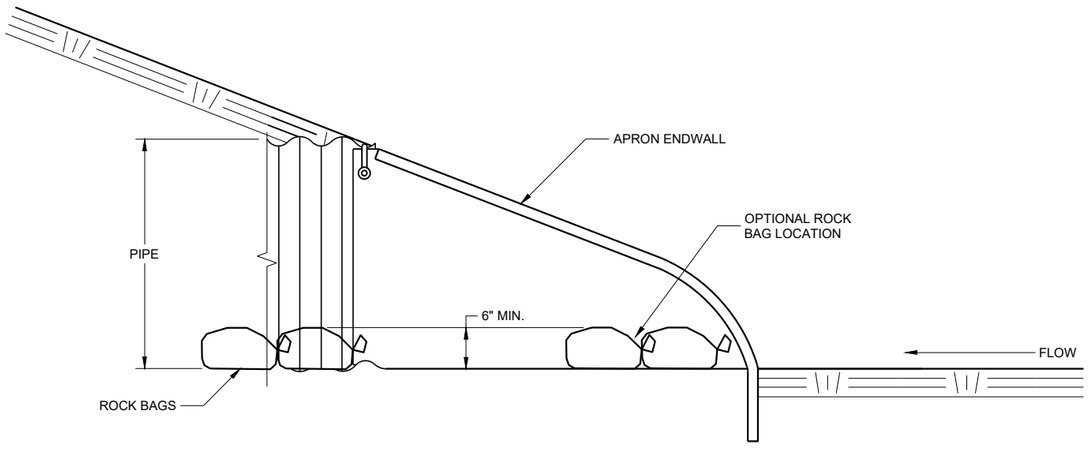
FHWA

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S.D.D. 8 E 14-1



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

635

FHWA

6

SDD 08E15 - 01

6

SDD 08E15 - 01

METAL APRON ENDWALLS

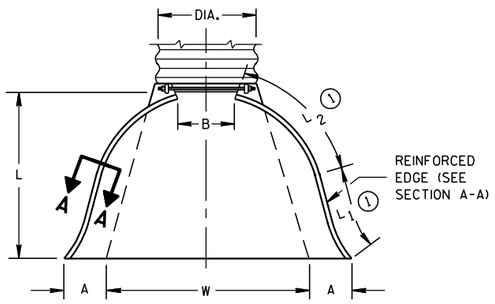
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 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

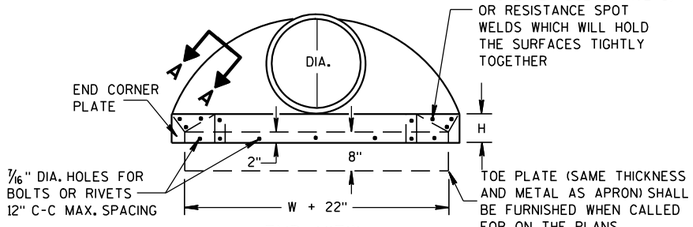
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
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

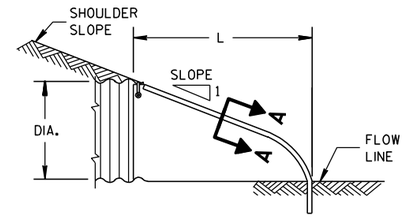
* MINIMUM
** MAXIMUM



PLAN VIEW

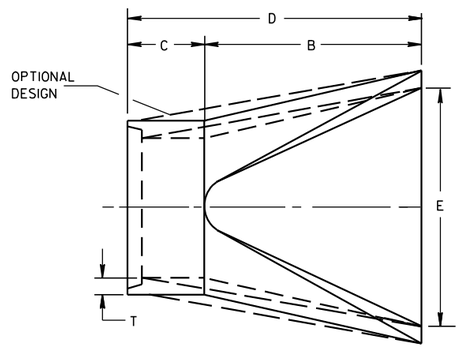


END VIEW

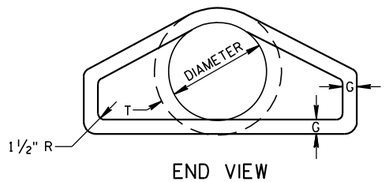


SIDE ELEVATION

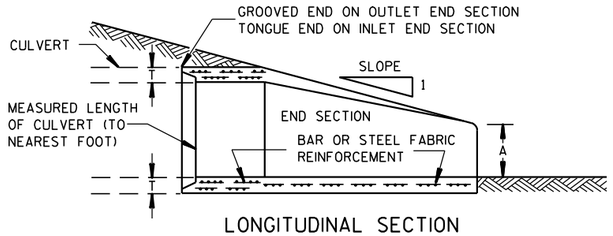
METAL ENDWALLS



PLAN

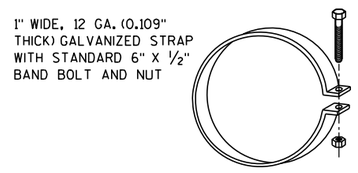


END VIEW



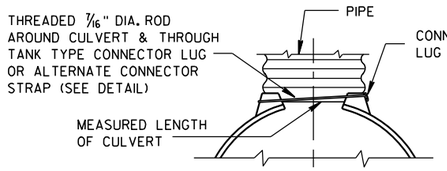
LONGITUDINAL SECTION

CONCRETE ENDWALLS

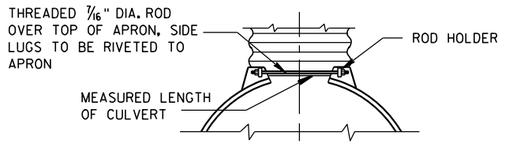


ALTERNATE FOR TYPE 1 CONNECTION

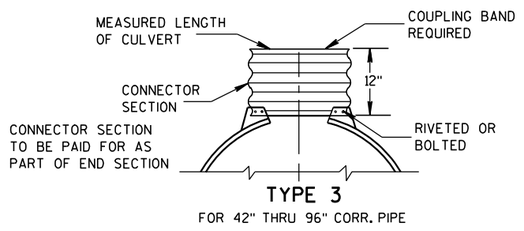
END SECTION CONNECTOR STRAP



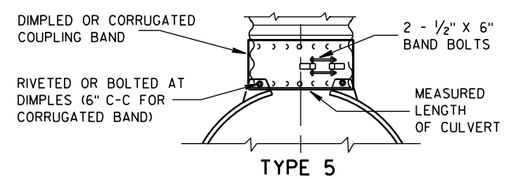
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

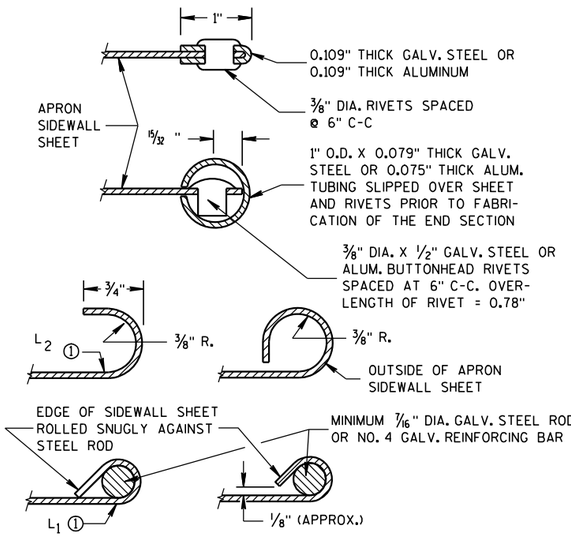
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

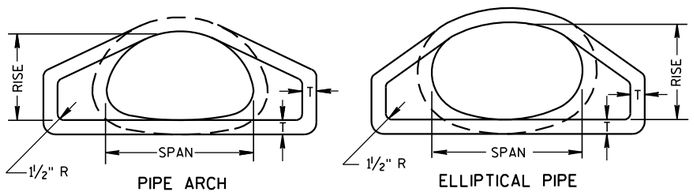
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

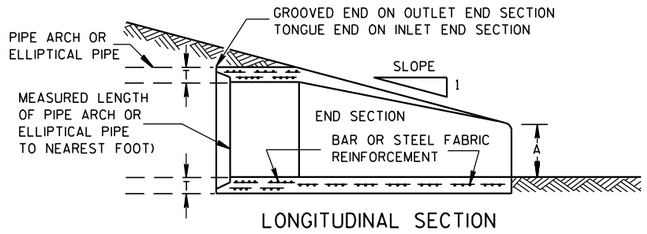
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOP 636 NEER
FHWA

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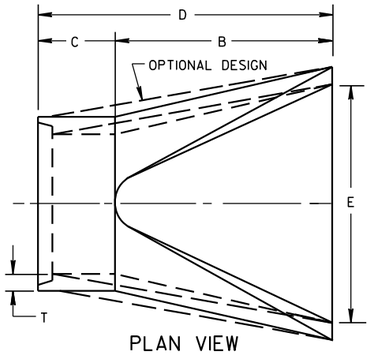
S.D.D. 8 F 1-11



END VIEW

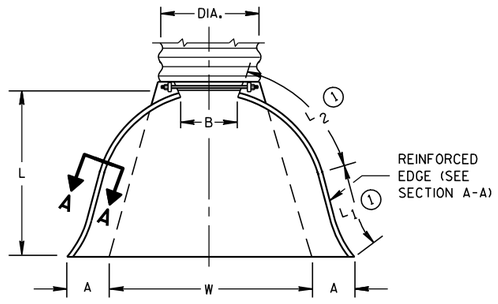


LONGITUDINAL SECTION

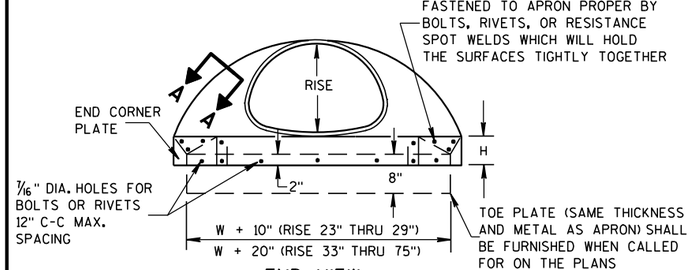


PLAN VIEW

CONCRETE ENDWALLS

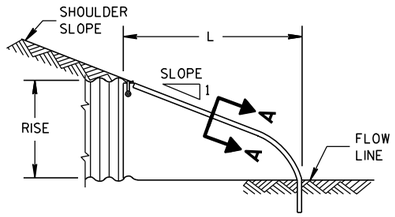


PLAN VIEW



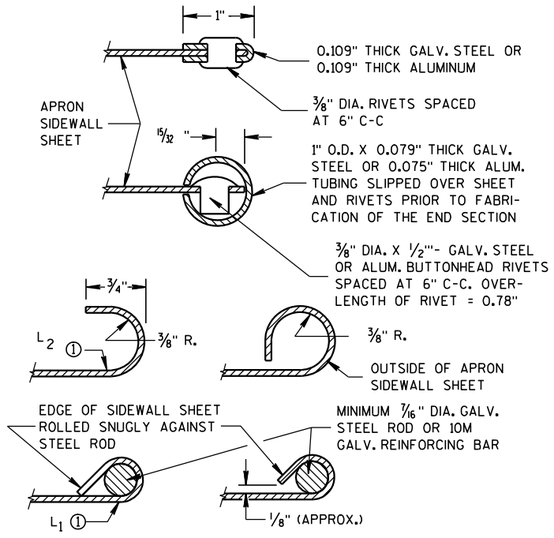
END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER

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

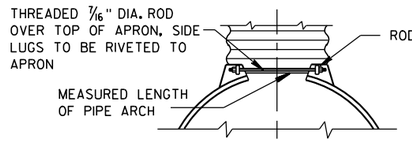
REINFORCED CONCRETE PIPE ARCH

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

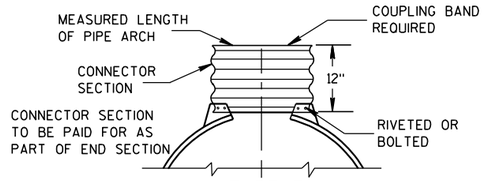
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



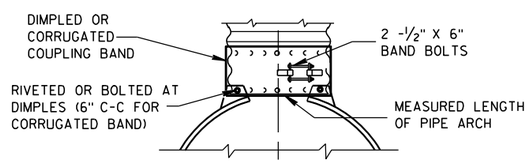
TYPE 2

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

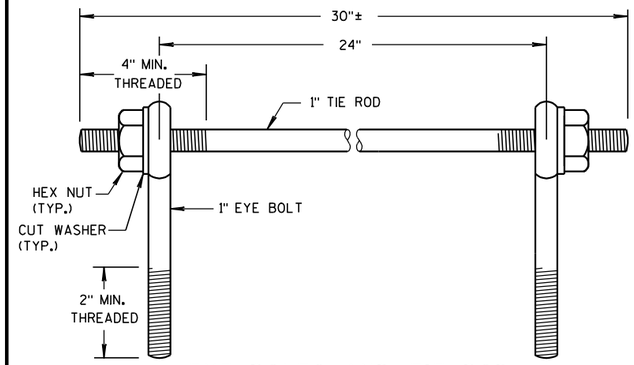
11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

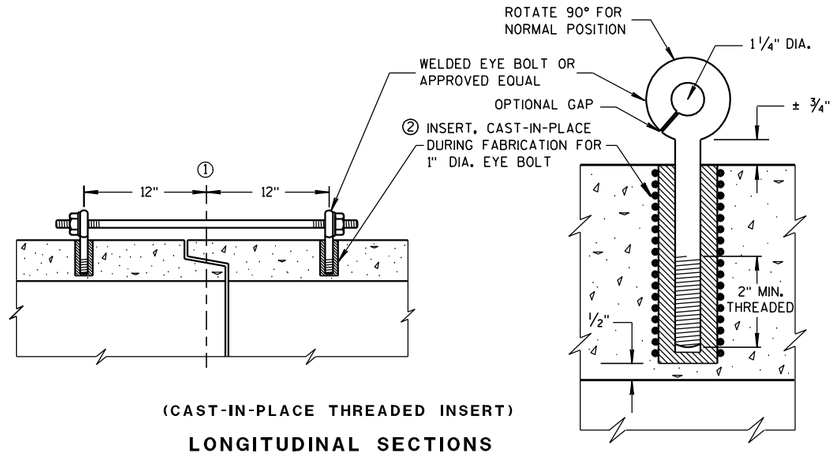
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S.D.D. 8 F 2-1



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 ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

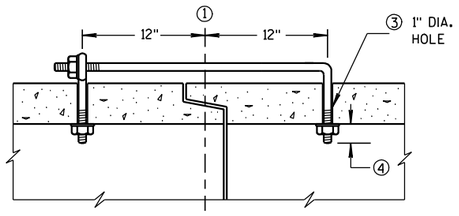
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

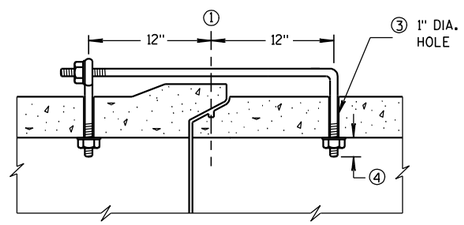
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

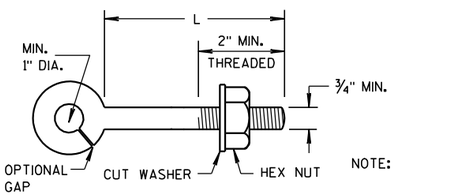


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

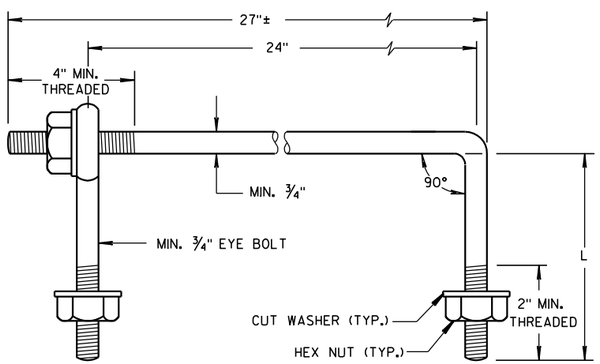
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

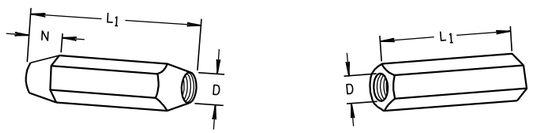
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

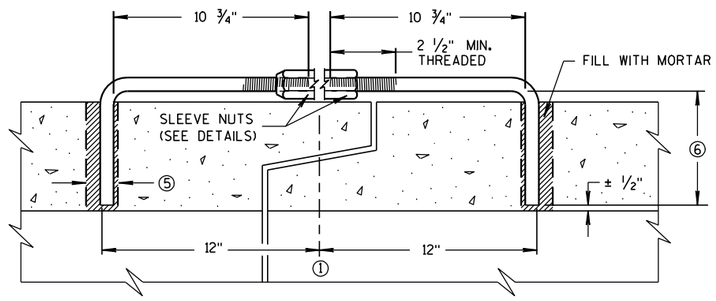
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

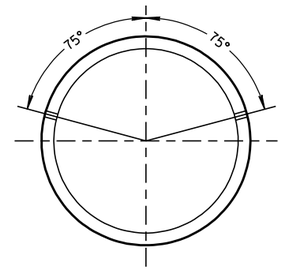
SLEEVE NUTS



LONGITUDINAL SECTION

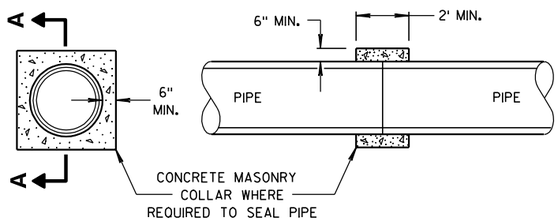
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

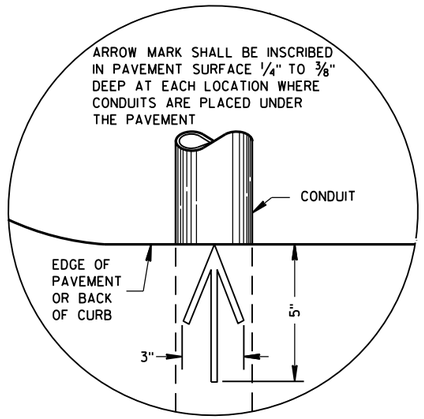
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
638 — [illegible]MENT
FHWA

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S.D.D. 8 F 4-7

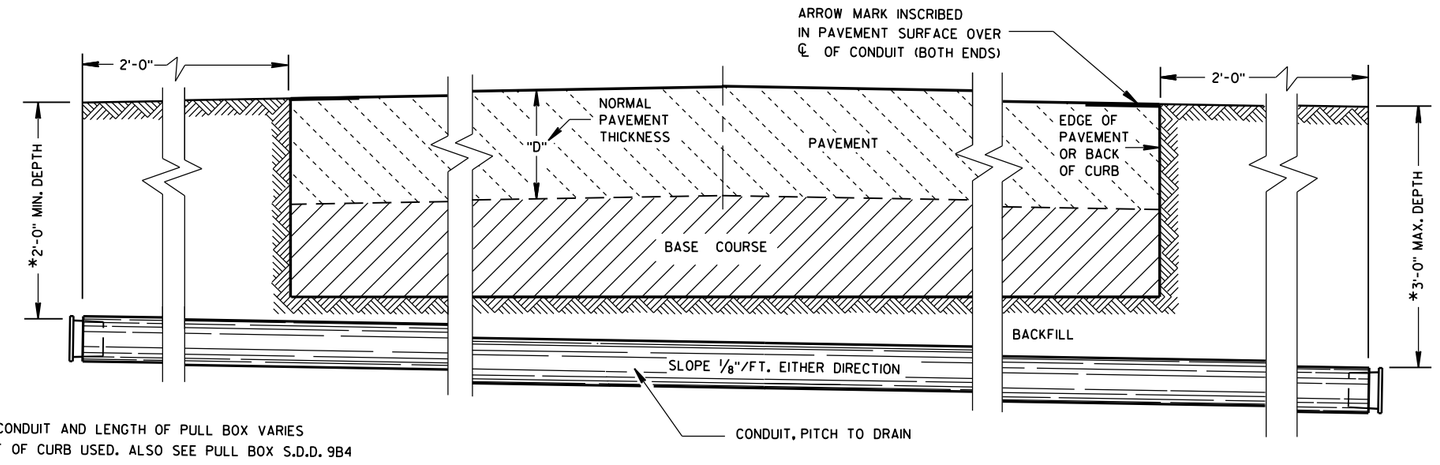
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S.D.D. 8 F 4-7



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 639
FHWA

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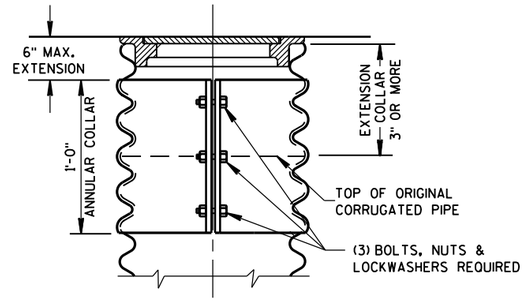
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

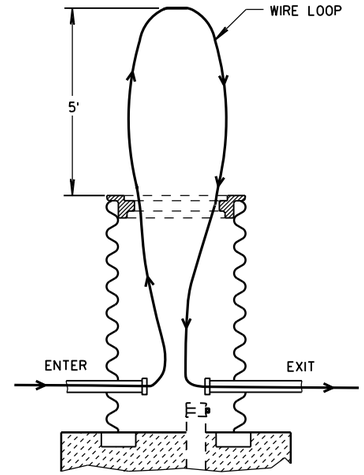
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

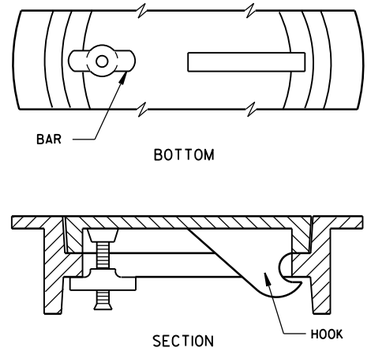
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

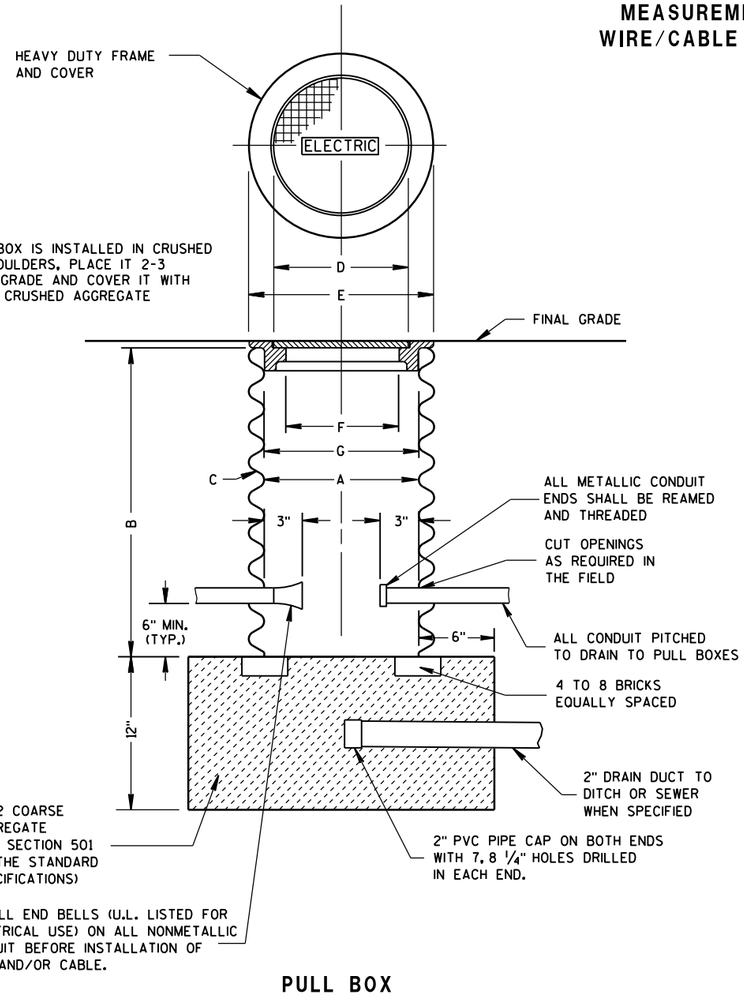


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

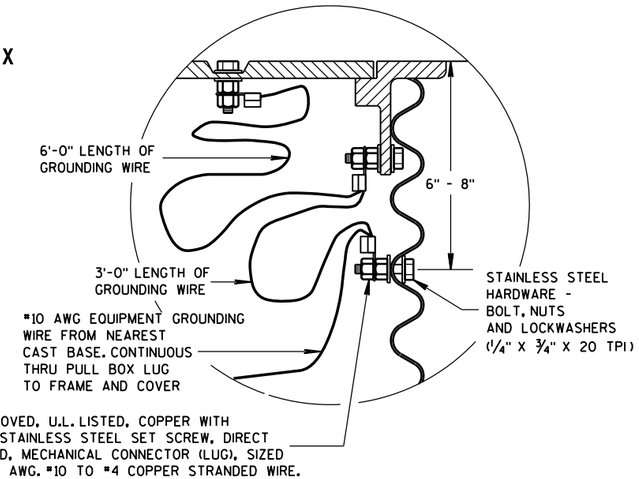


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

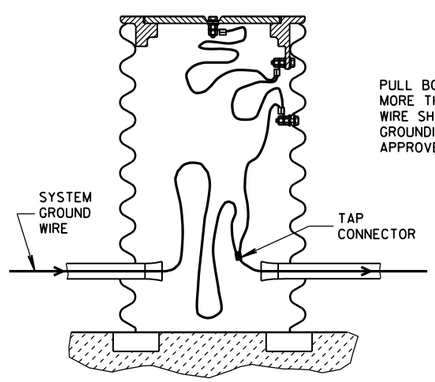
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 B 4-11

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S.D.D. 9 B 4-11

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		NON-CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 1/2	22 1/2
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.

** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE

GENERAL NOTES

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

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN 1/4".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

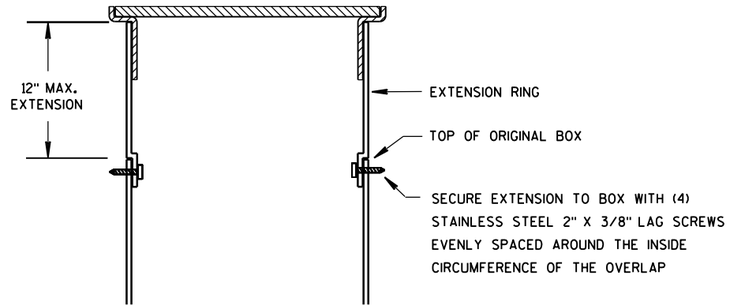
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

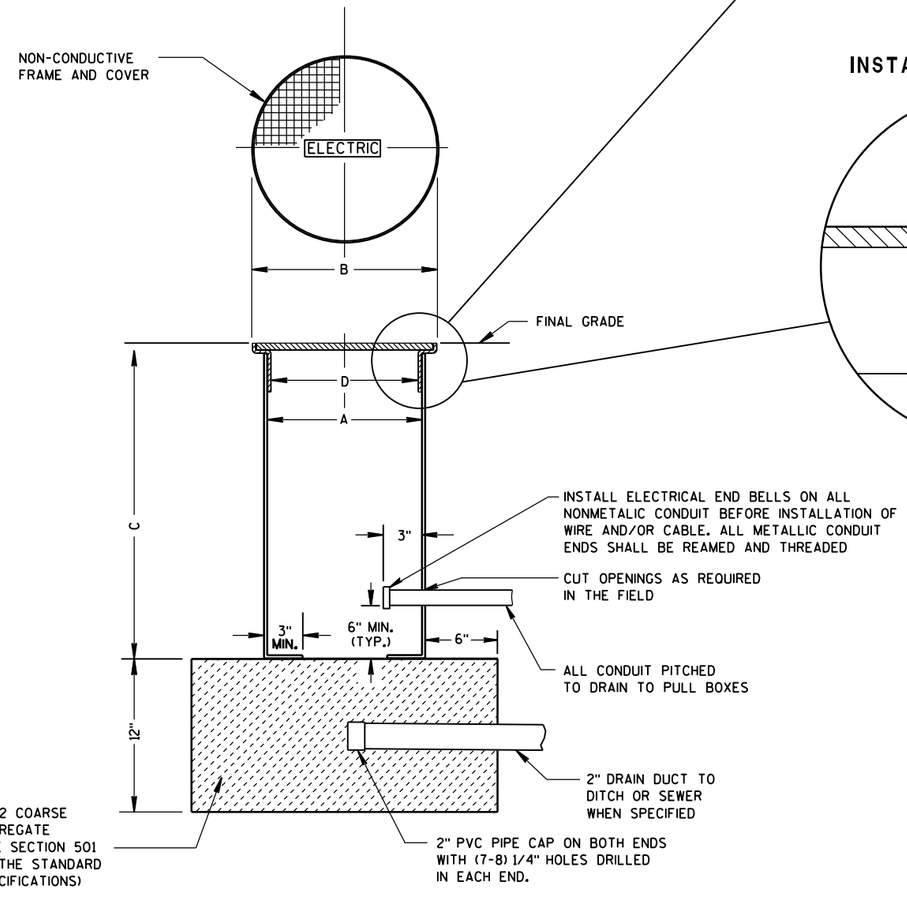
ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.

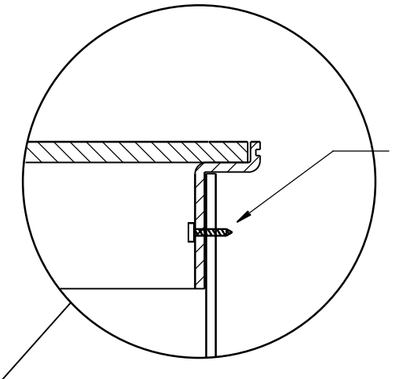


BOX EXTENSION

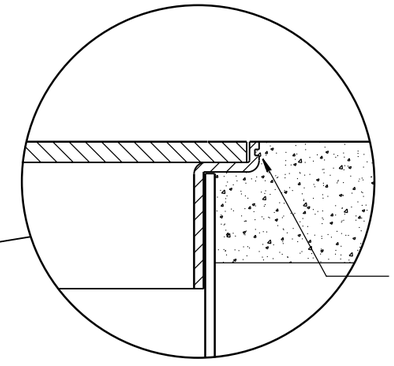


NON-CONDUCTIVE PULL BOX

INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



PULL BOX NON-CONDUCTIVE

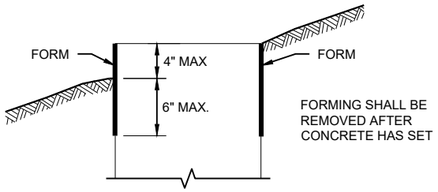
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 B 16-1

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL BENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

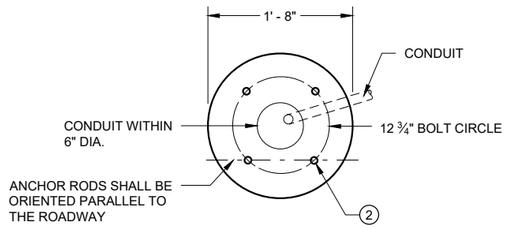
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

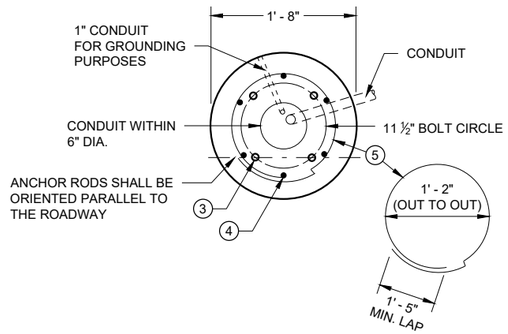
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

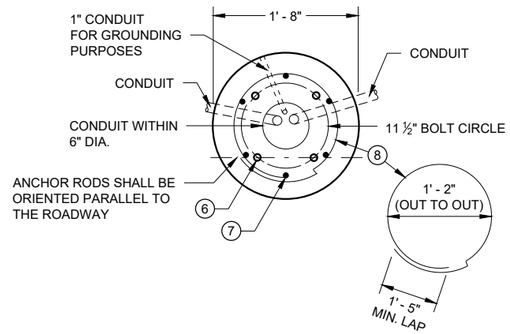
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).







1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

2 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

6 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

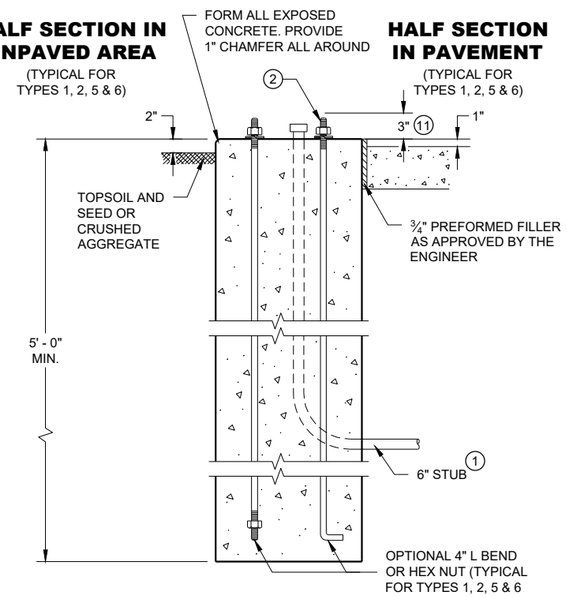
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

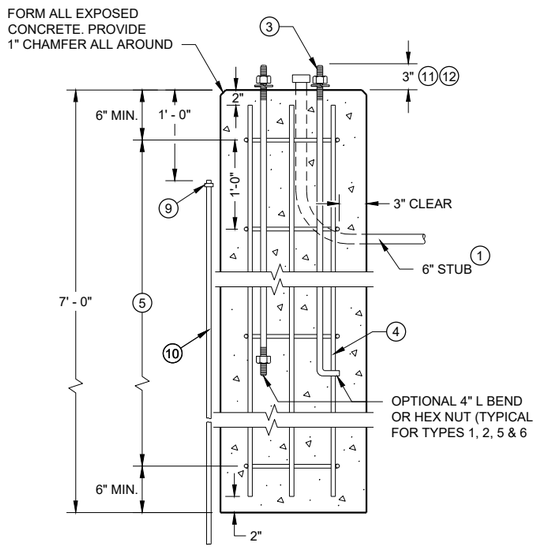
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

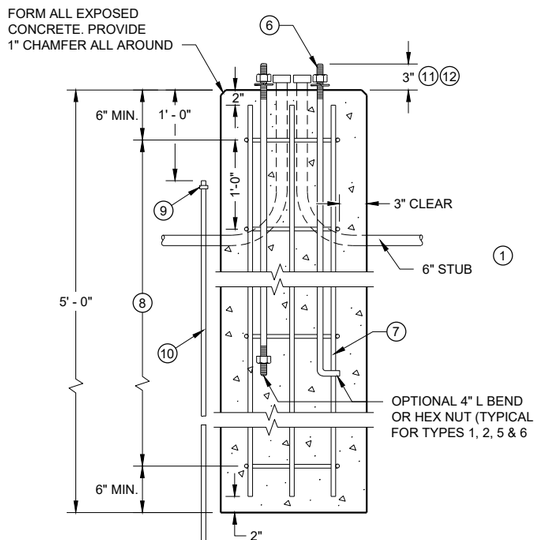
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 642
FHWA

GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

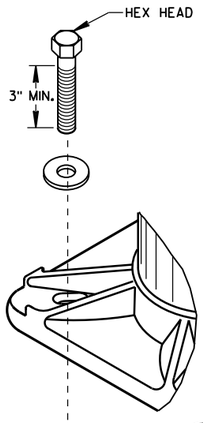
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

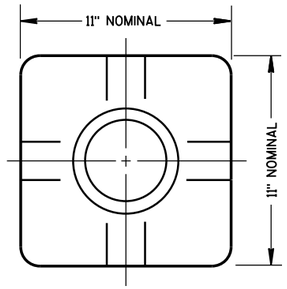
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

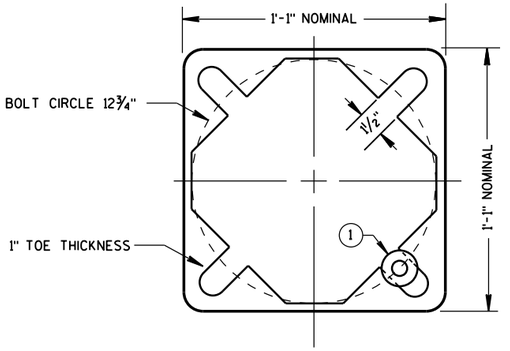
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

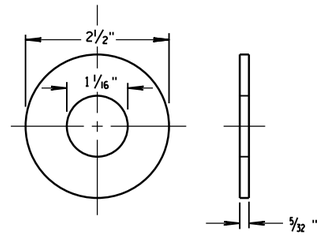




TOP VIEW
(PEDESTAL BASE)

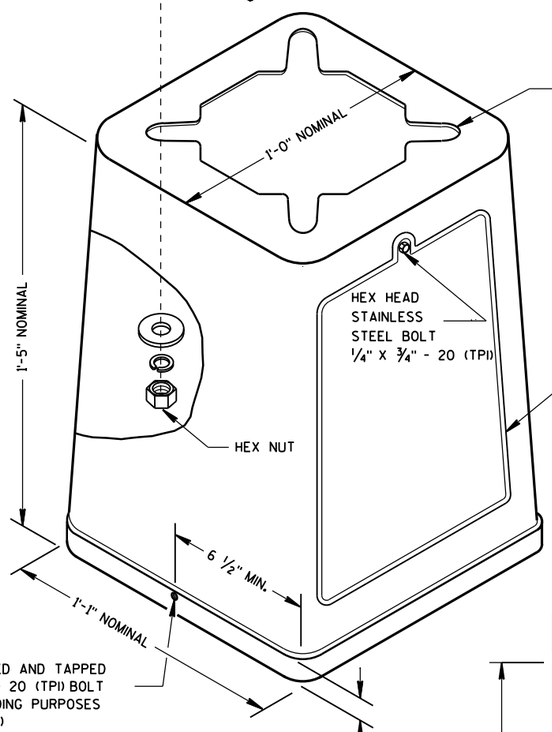


BOTTOM VIEW
(PEDESTAL BASE)

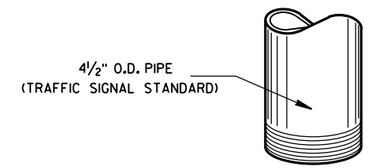


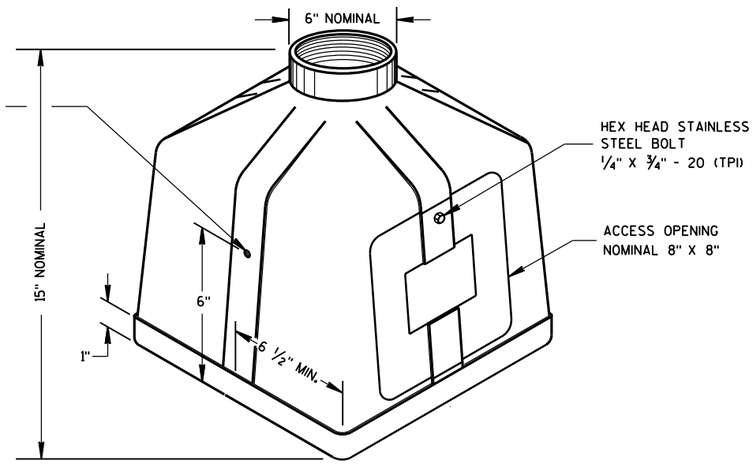
ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)



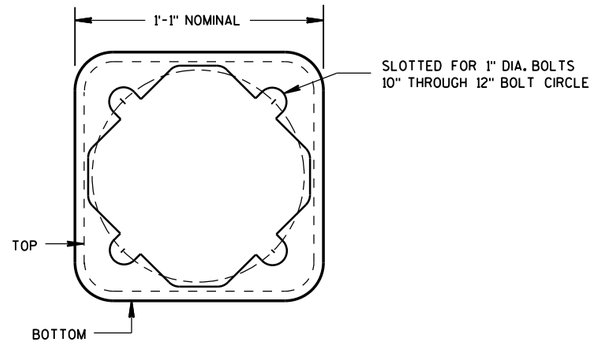
ISOMETRIC VIEW



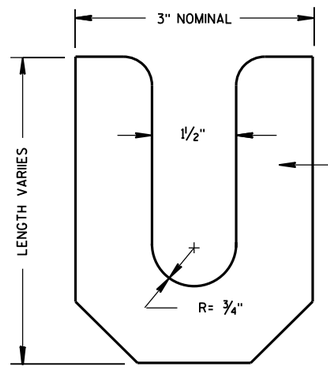


ISOMETRIC VIEW

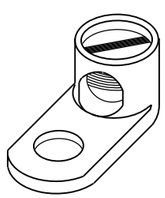
PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)



LEVELING SHIM



TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES

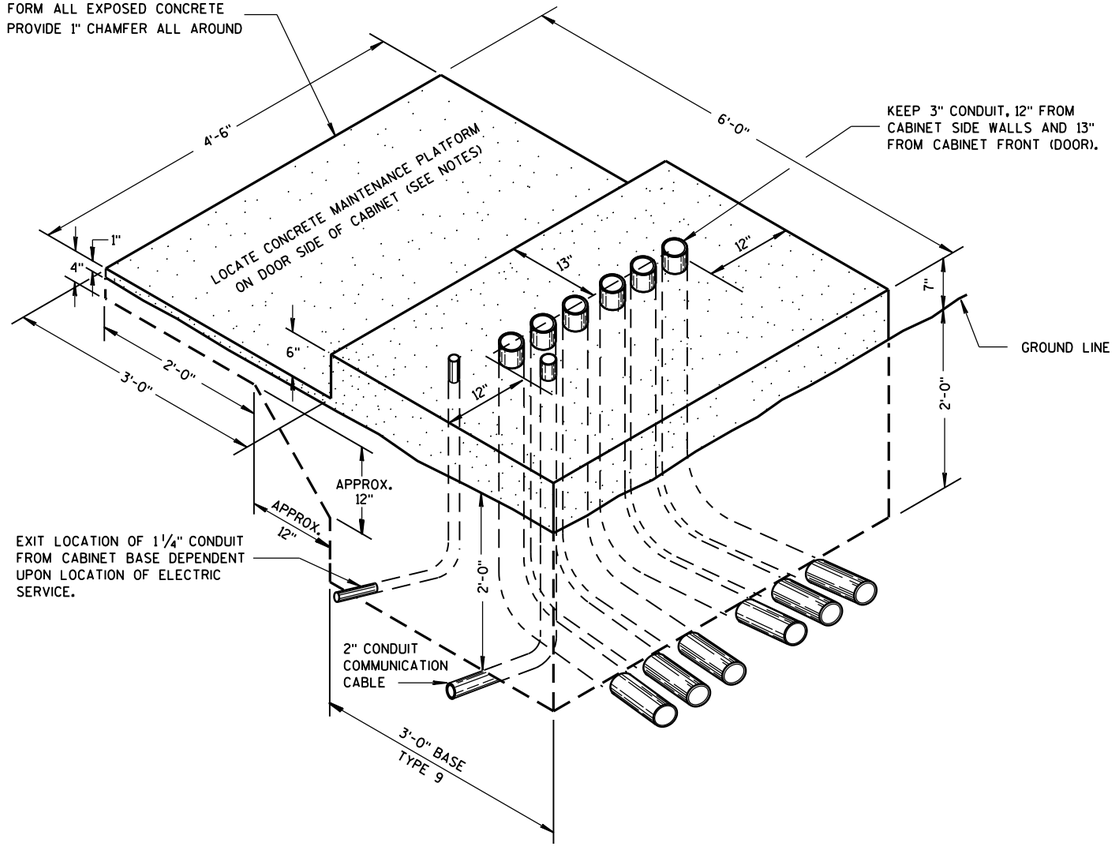
TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

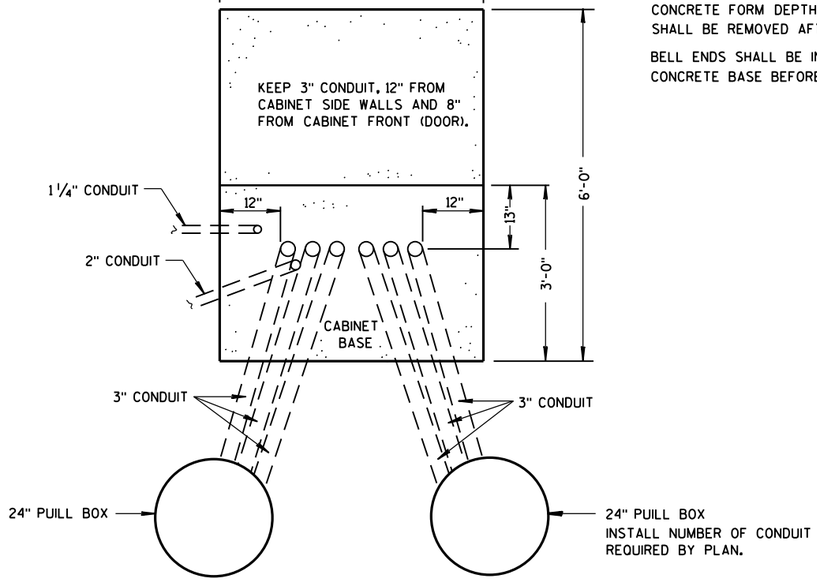
S.D.D. 9 C 3-4



ISOMETRIC VIEW

TYPE 9, SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

GENERAL NOTES

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

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 644
FHWA

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

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ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE 1" X 60".

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

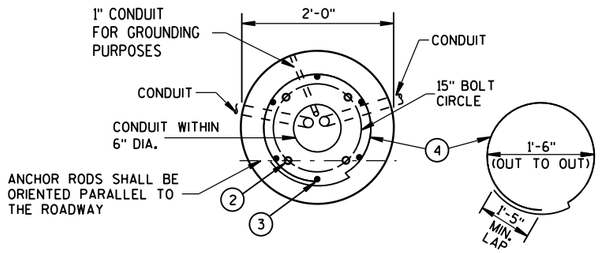
BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

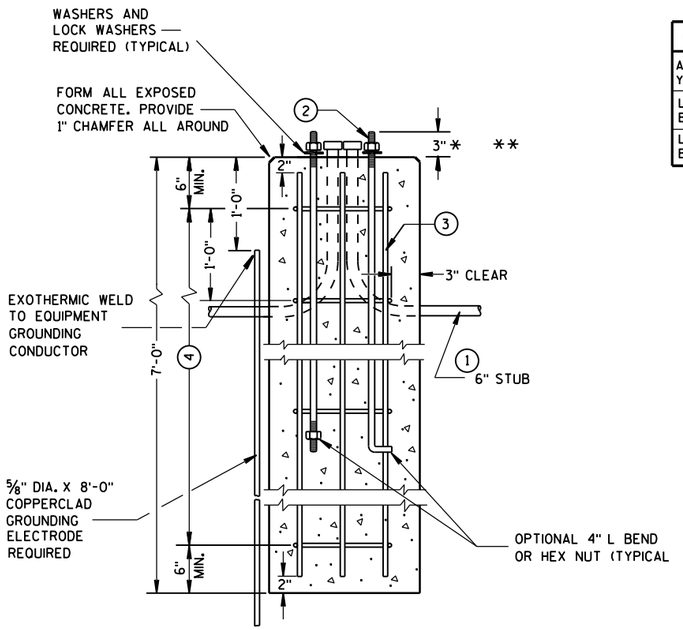
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 5'-0" ANCHOR RODS.

(3) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

(4) (7) NO. 4 X 6'-2" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

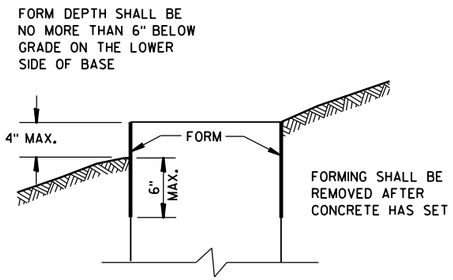




CONCRETE BASE, TYPE 7 (FOR 40' LIGHT POLES)

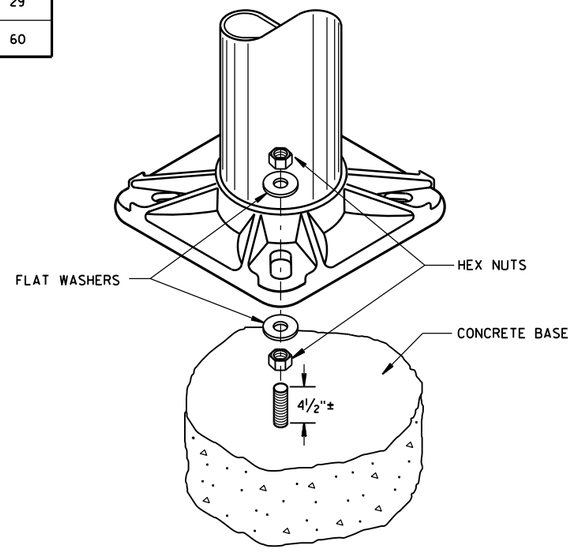
* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.



FORMING DETAIL

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	0.8
LBS. OF HOOP BAR STEEL	29
LBS. OF VERTICAL BAR STEEL	60



NON-BREAKAWAY INSTALLATION (LEVELING NUT)

CONCRETE BASE, TYPE 7

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6
S.D.D. 9 C 8-5

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

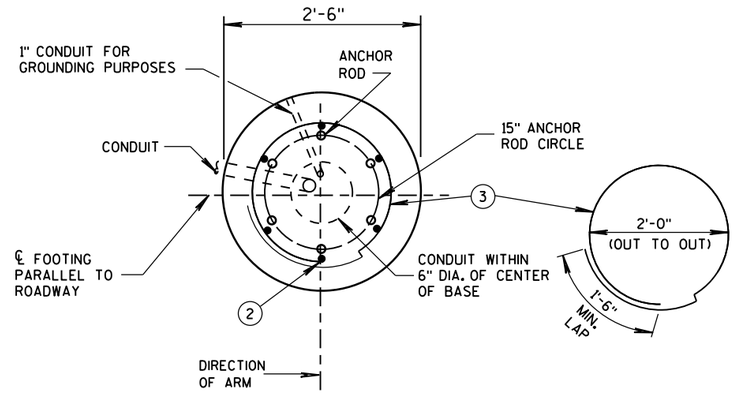
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

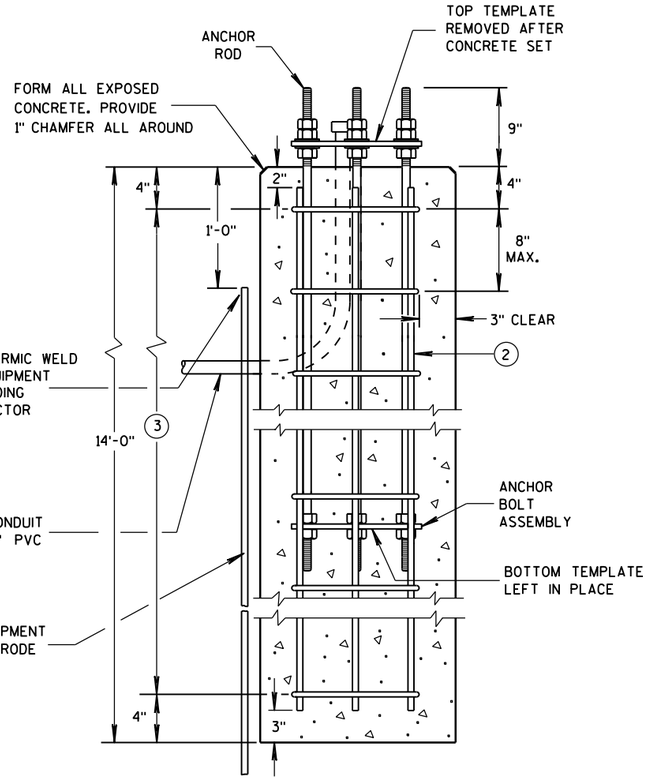
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES. (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.

(3) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATION)	fy=55,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy=36,000 p.s.i.

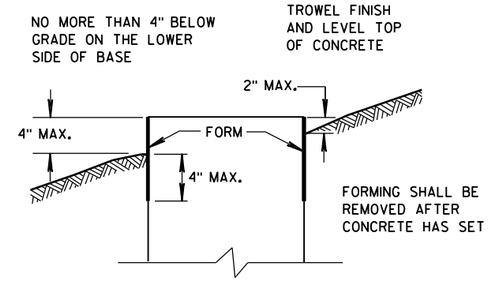




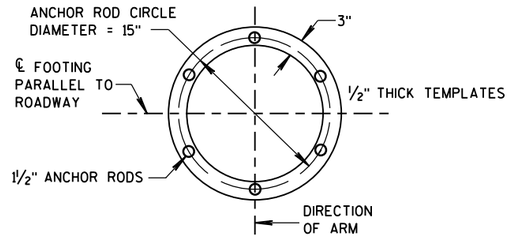
CONCRETE BASE TYPE 10

(FOR TYPE 9 & 10 & OVER HEIGHT (OH) POLES)

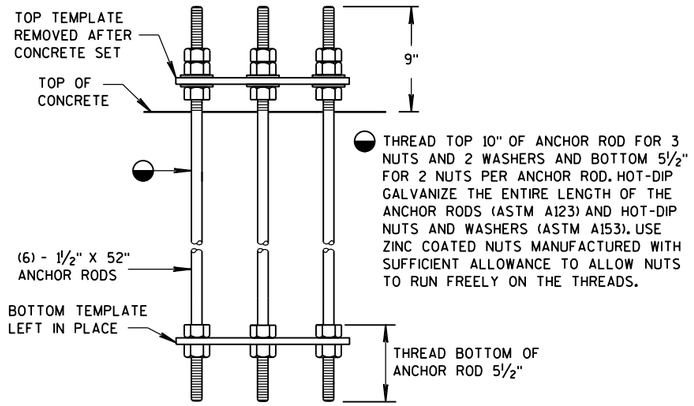
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 ANCHOR ASSEMBLY

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122

CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

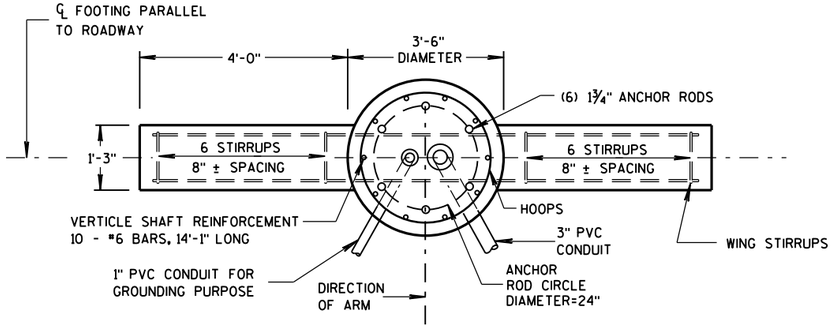
May 2017 — DATE

/S/ Ahmet Demirbilek — STATE ELECTRICAL

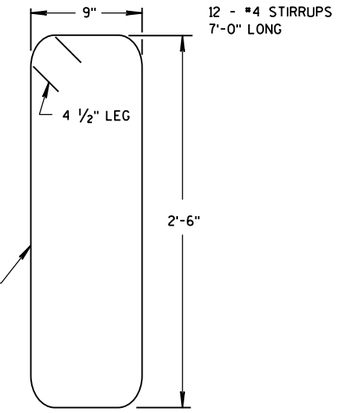
FHWA

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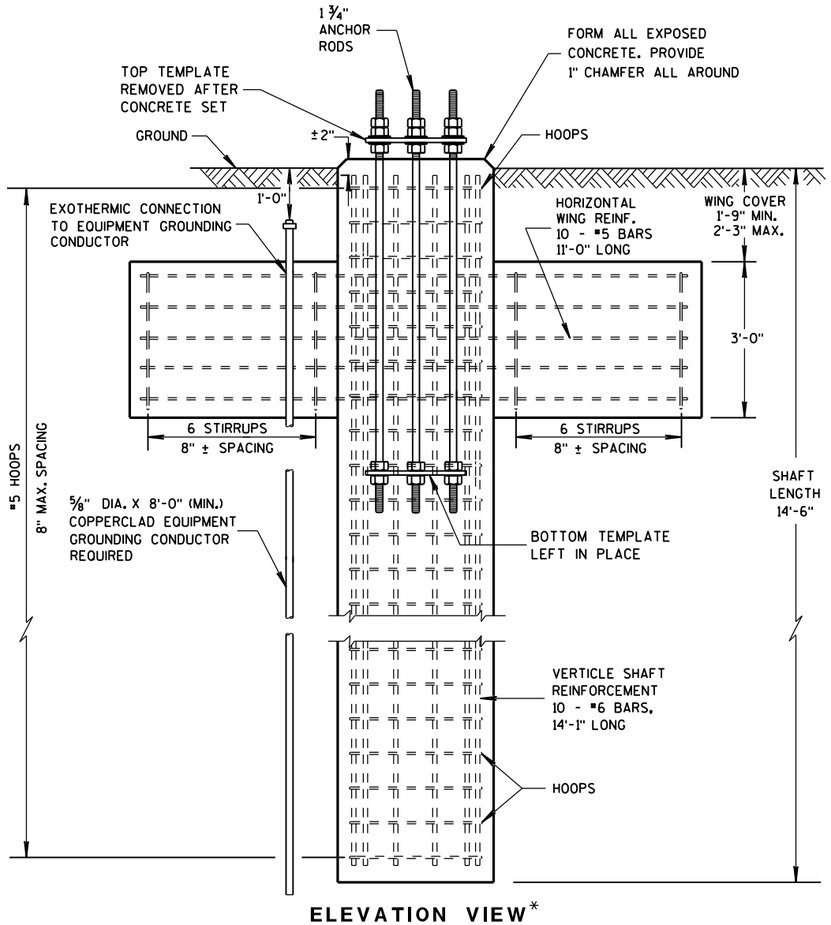
S.D.D. 9 C 11-10



PLAN VIEW

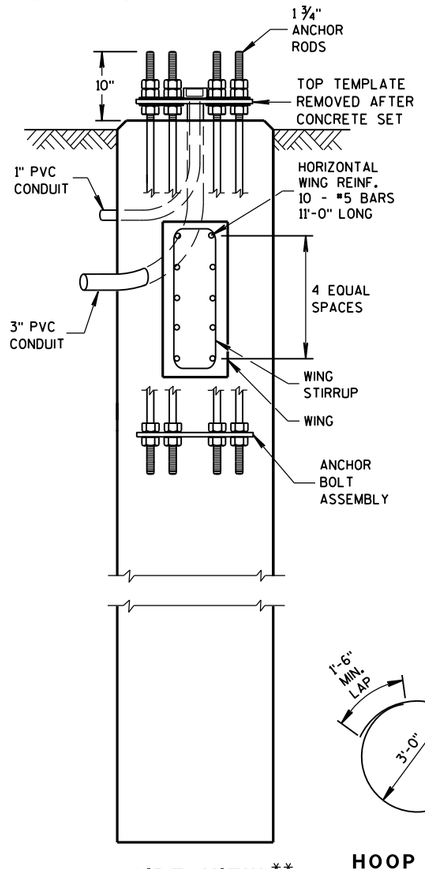


WING STIRRUP



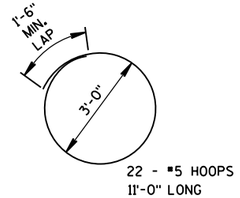
ELEVATION VIEW*

* CONDUITS ARE NOT SHOWN ON THIS VIEW FOR CLARITY



SIDE VIEW**

** HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY



HOOP DETAIL

GENERAL NOTES

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

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF THE UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BASES (SHAFT), BELOW THE WING, SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUNG THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZE AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASE SHALL BE 4½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF THE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTOR FITTINGS, UL LISTED FOR ELECTRICAL USE, SHALL BE USED.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1-INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4-FOOT COIL OF WIRE ABOVE THE CONCRETE BASE, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS.

THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVEL WAY SHALL BE 24-INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18-INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36-INCHES, (GREATER THAN 36-INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATIONS	fy=55,000 p.s.i.
TEMPLATES, ASTM A709 GRADE 36	fy=36,000 p.s.i.

(FOR TYPE 12 & 13 & OVER HEIGHT (OH) POLES)

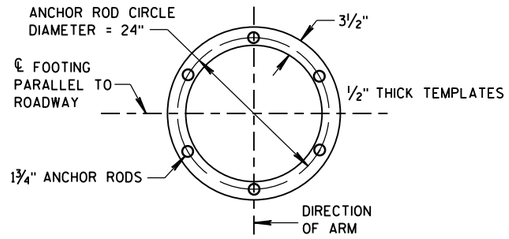
CONCRETE = 6.3 C.Y.
H.S. REINFORCEMENT = 635 LBS.

TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.
SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.

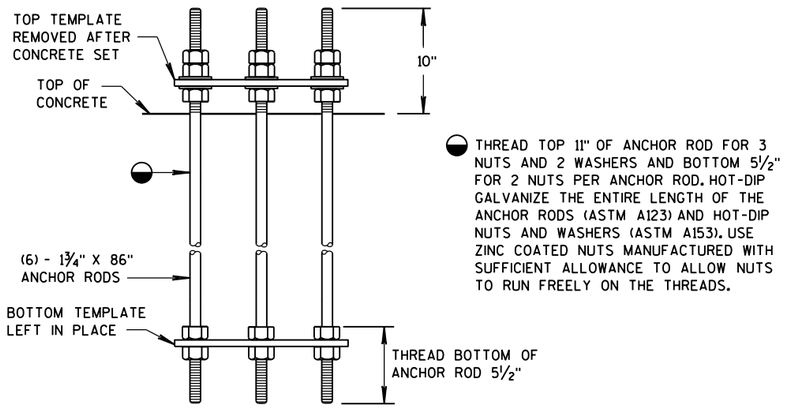
CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 9 C 12-9a

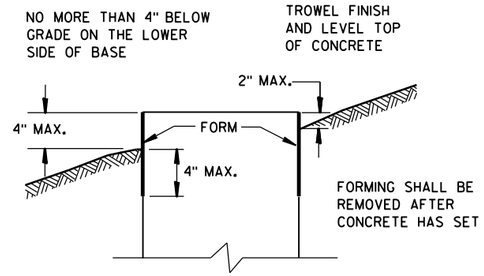


TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

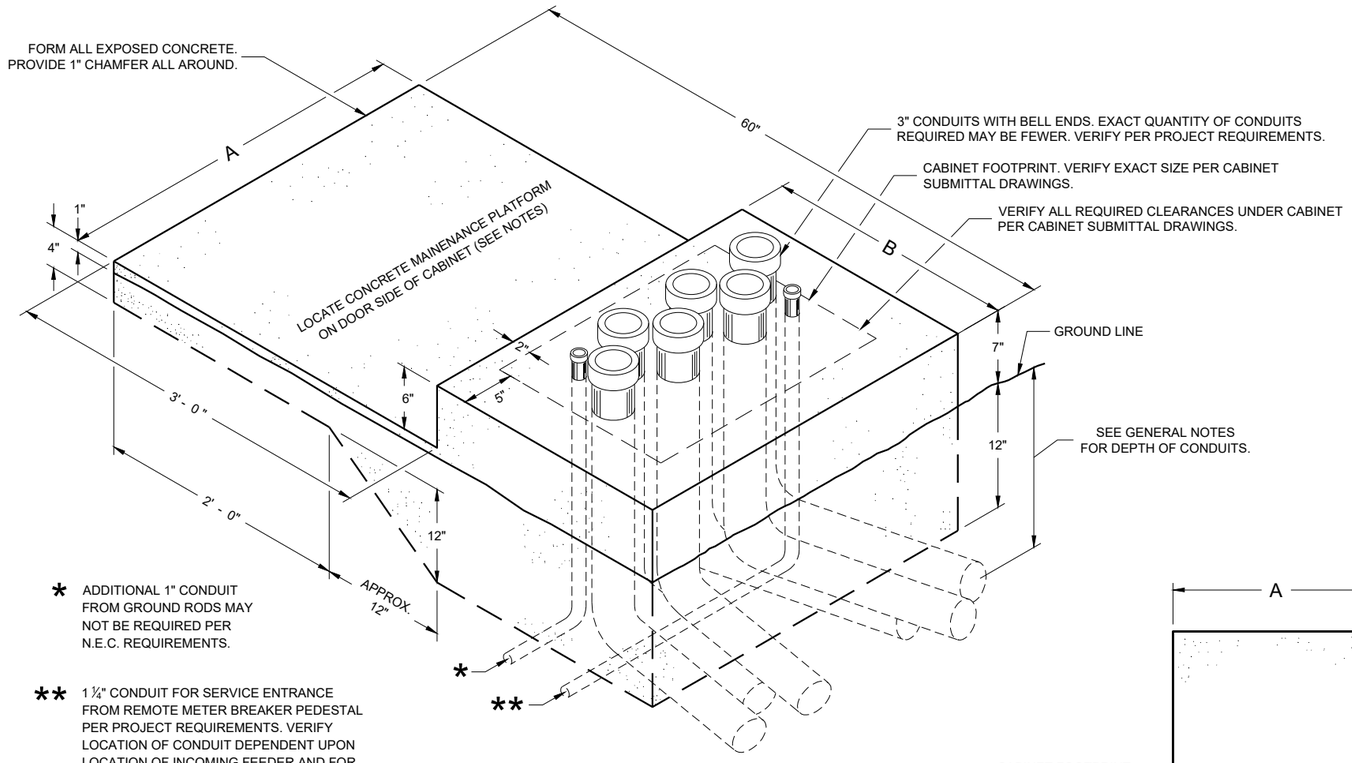
CONCRETE BASE TYPE 13 ANCHOR ASSEMBLY



FORMING DETAIL

CONCRETE BASE TYPE 13	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2017 DATE FHWA	/S/ Ahmet Demirbilek STATE ELECTRICAL

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S.D.D. 9 C 12-9b



* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

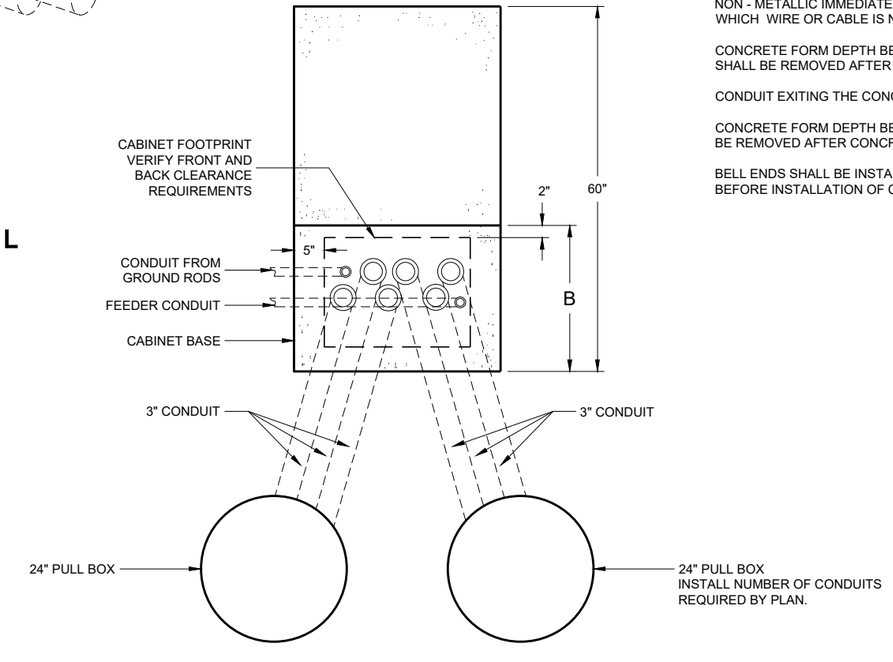
** 1 ¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

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

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS UNLESS DETERMINED BY THE ENGINEER IN THE FIELD.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCH MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE L

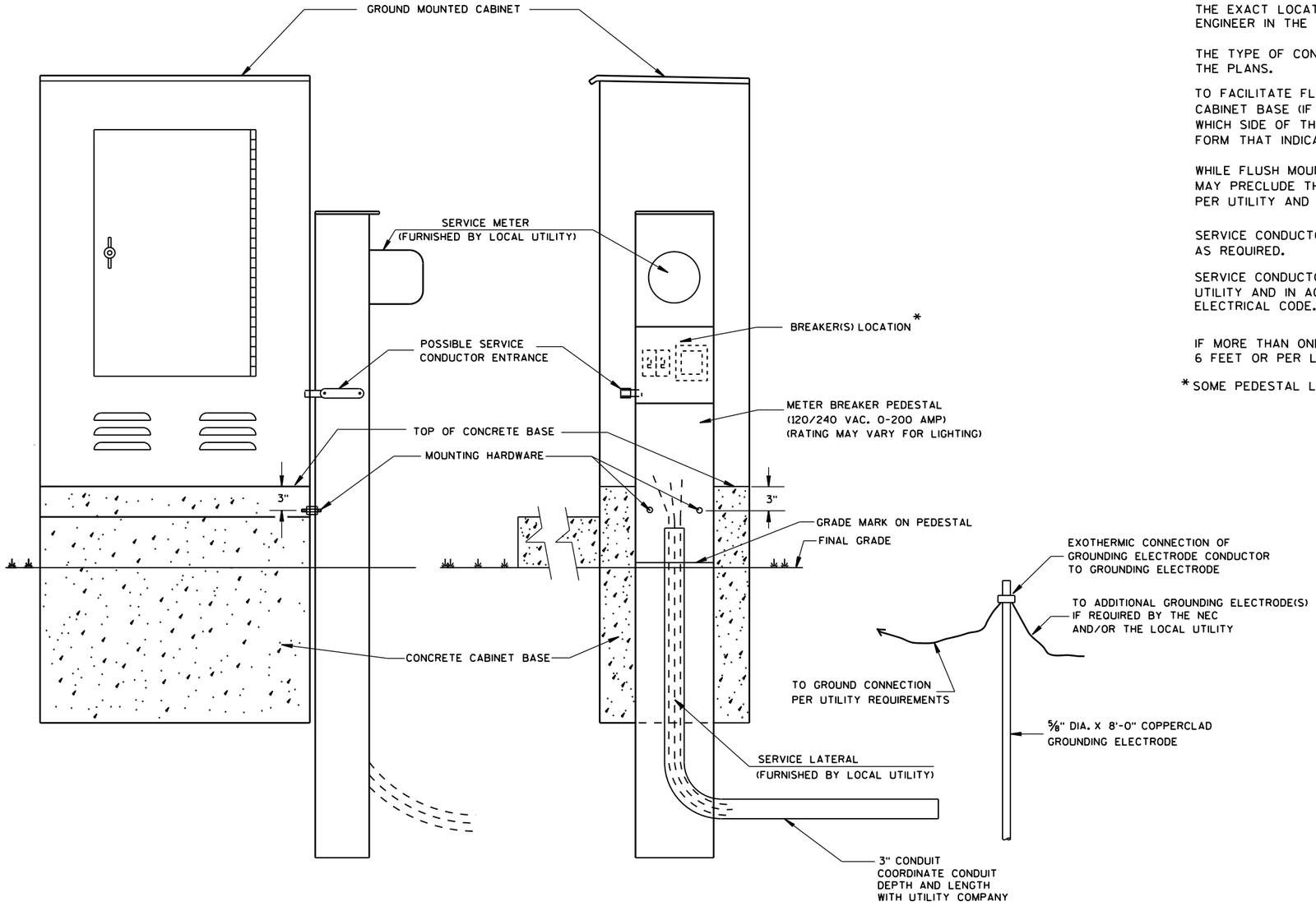
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 649

FHWA

6
SDD 09C14 - 03



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

*SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

6

S.D.D. 9 D 1-5

6

S.D.D. 9 D 1-5

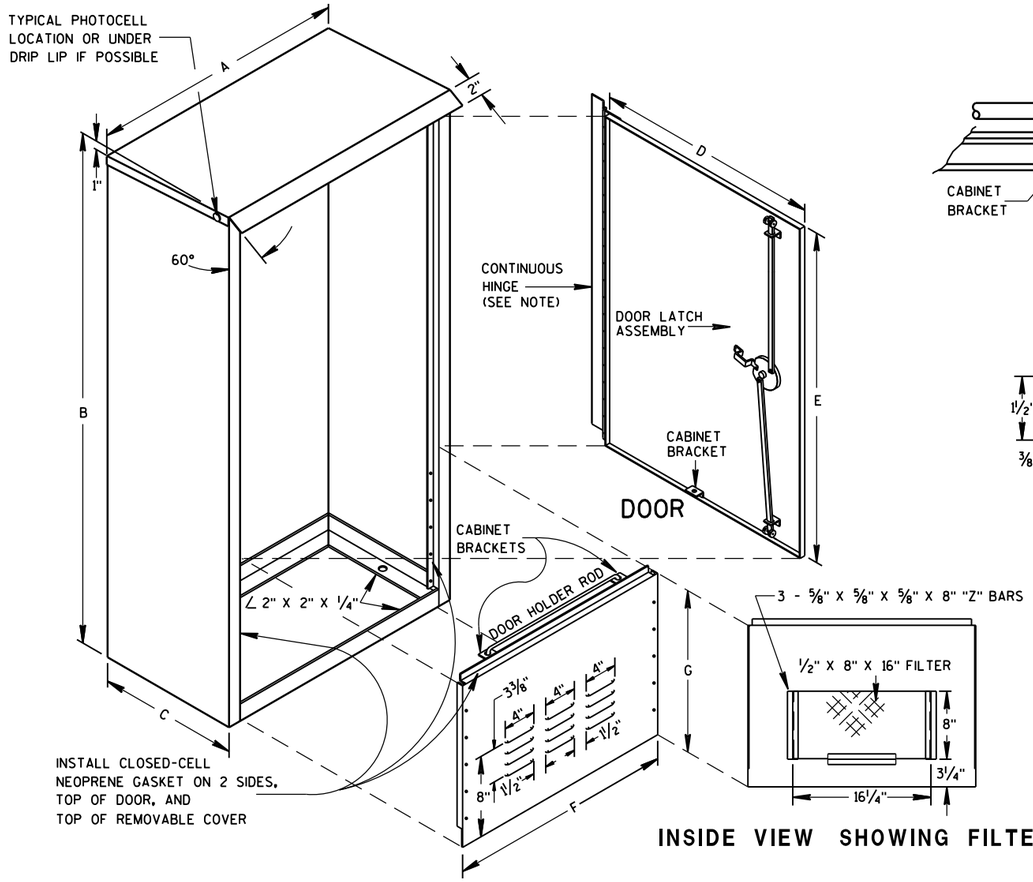
CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

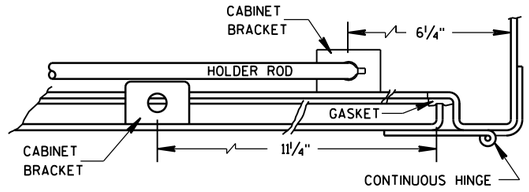
/S/ Ahmet Demirbilek
STATE ELECTRICAL 650

FHWA

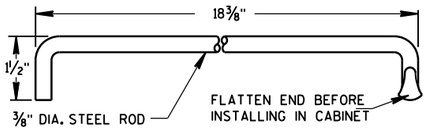


REMOVABLE COVER

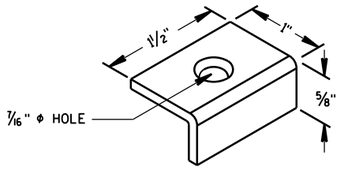
INSIDE VIEW SHOWING FILTER



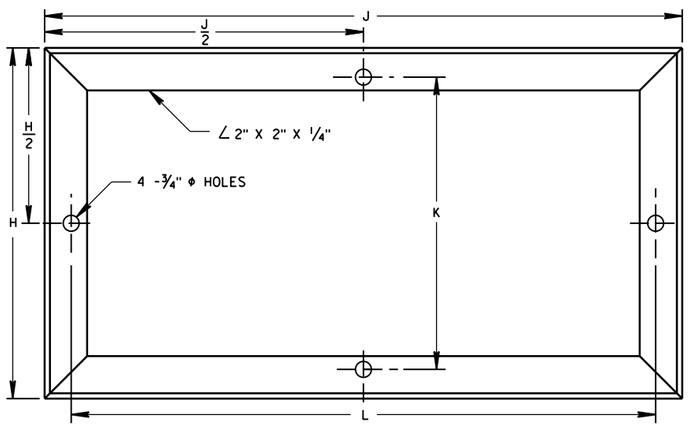
HINGE & DOOR HOLDER



HOLDER ROD



CABINET BRACKET



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2

GENERAL NOTES

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

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

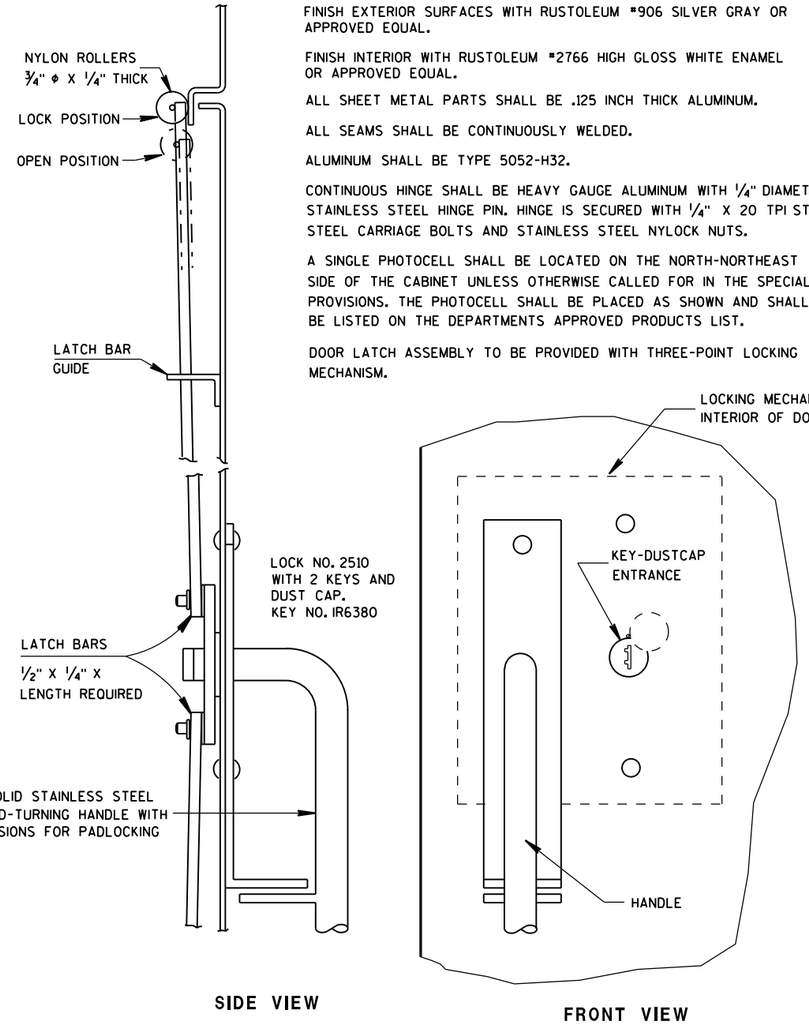
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST.

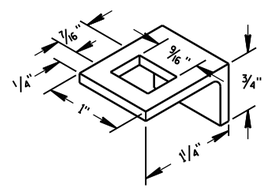
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

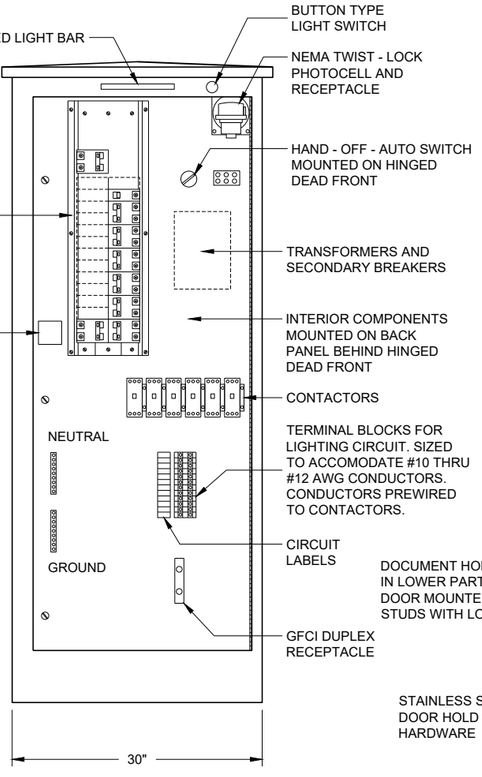
SIGNAL CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

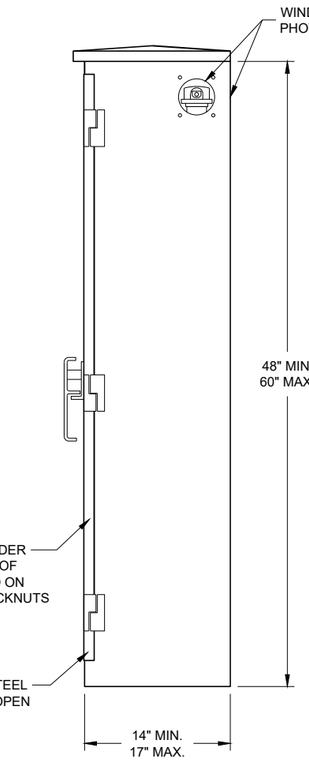
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Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL 651
FHWA

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S.D.D. 9 D 2-3

FRONT INTERIOR ELEVATION

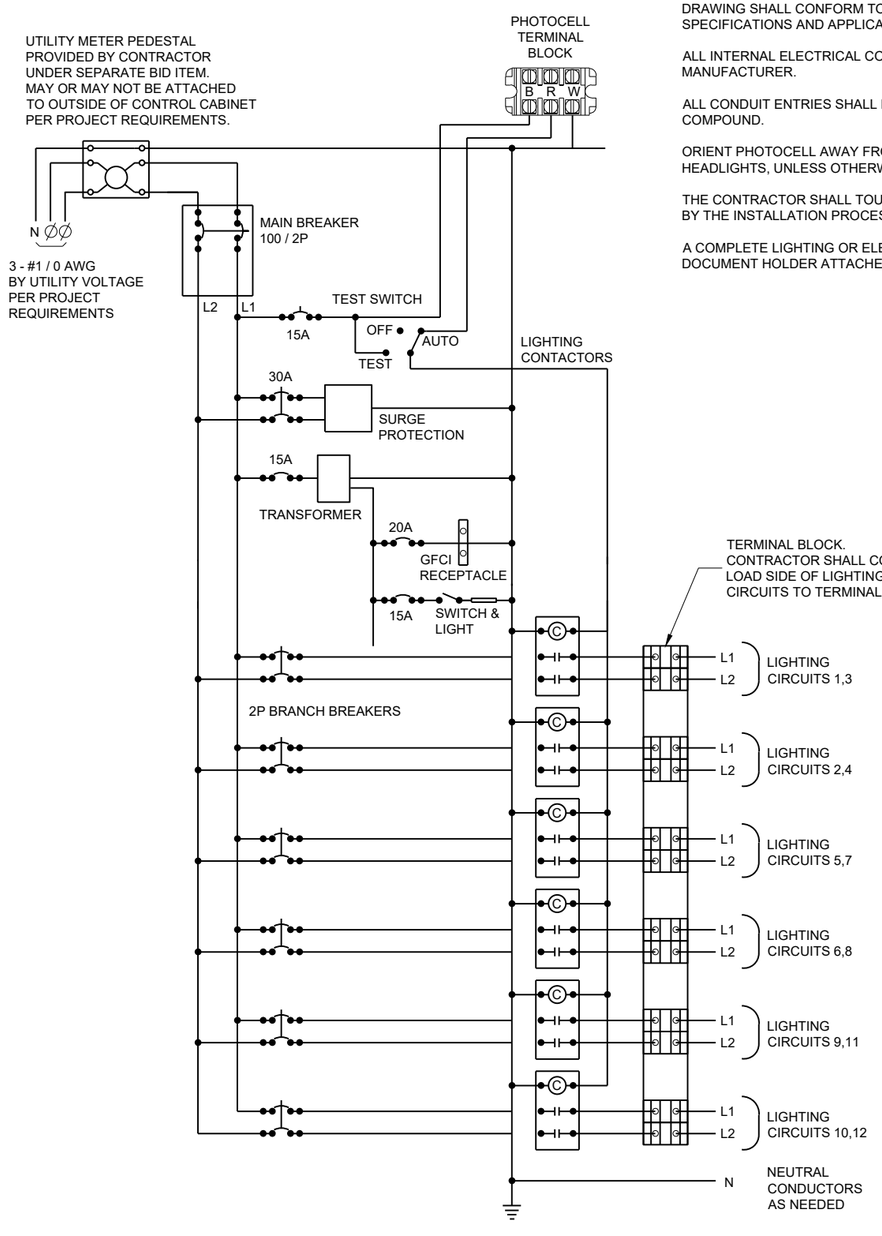


SIDE VIEW





LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

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.

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE - WIRED BY THE CABINENT MANUFACTURER.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS, UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISION.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

L30
LIGHTING CONTROL CABINET 240 / 480 VOLT

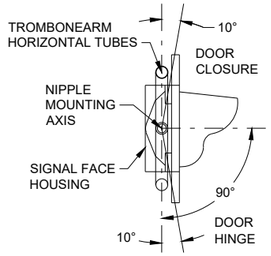
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

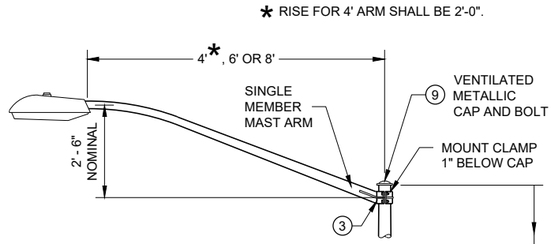
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 652

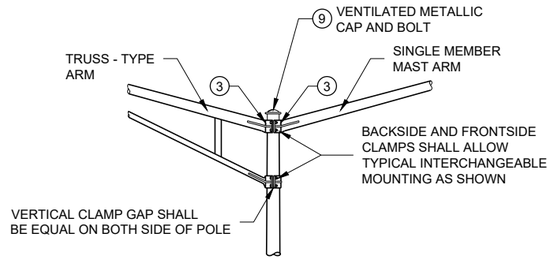
FHWA

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SDD 09D05 - 02

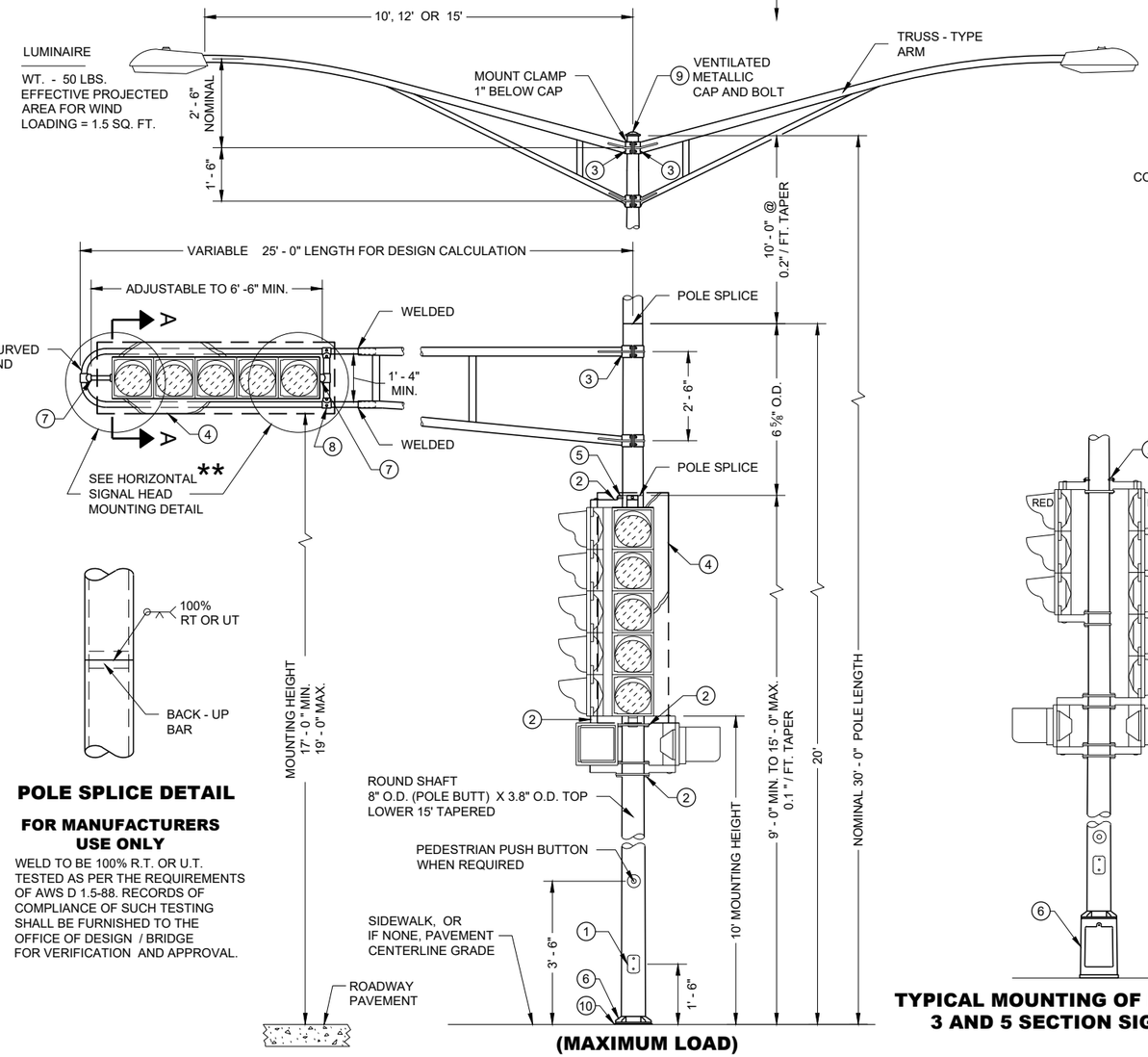


SECTION A-A





INTERCHANGEABLE MOUNTING DETAIL

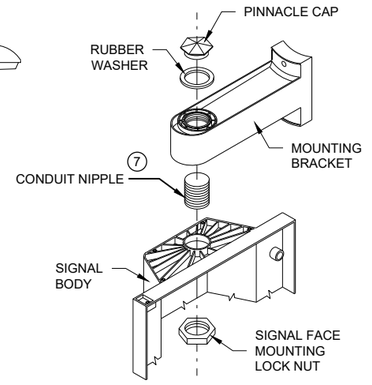


(MAXIMUM LOAD)

POLE SPLICE DETAIL

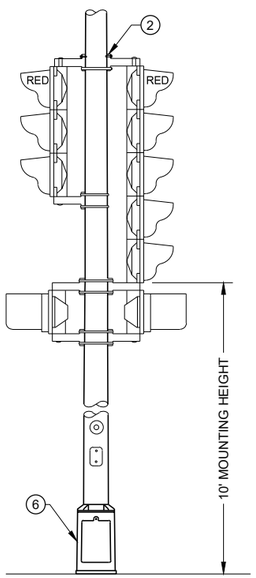
FOR MANUFACTURERS USE ONLY

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN / BRIDGE FOR VERIFICATION AND APPROVAL.

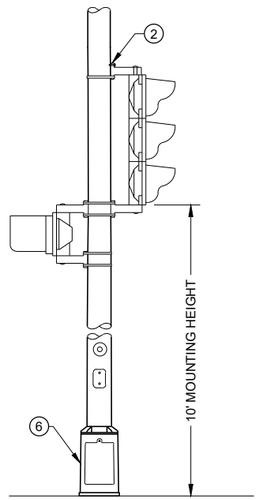


SIGNAL FACE MOUNTING DETAIL

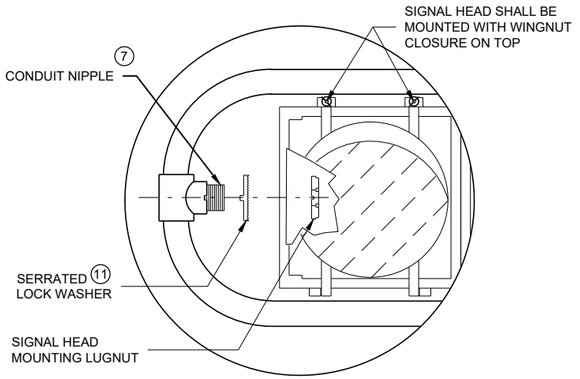
(BANDED)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



HORIZONTAL SIGNAL HEAD ** MOUNTING DETAIL

** SIGNAL HEAD ATTACHMENT ALSO APPLIES TO MOUNTING AT CROSS BAR

TYPE 3 POLE MOUNTING CONFIGURATION

GENERAL NOTES

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

ALL TYPE 3 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.

(3) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED. UNDER MAX LOADING, TYPE 3 POLE SHALL BE MOUNTED DIRECTLY TO ITS CONCRETE BASE.

(7) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS TYPE 3 (HEAVY DUTY)

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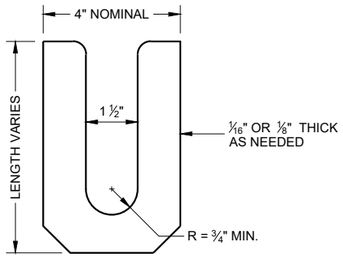
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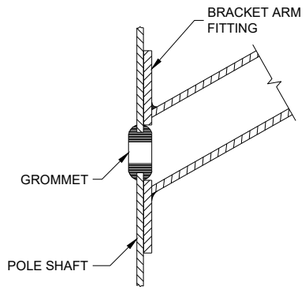
SDD 09E01 - 15b

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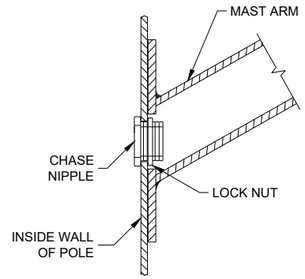
SDD 09E01 - 15b



LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

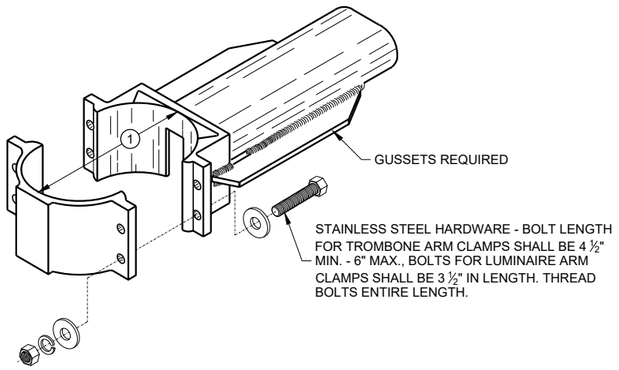
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

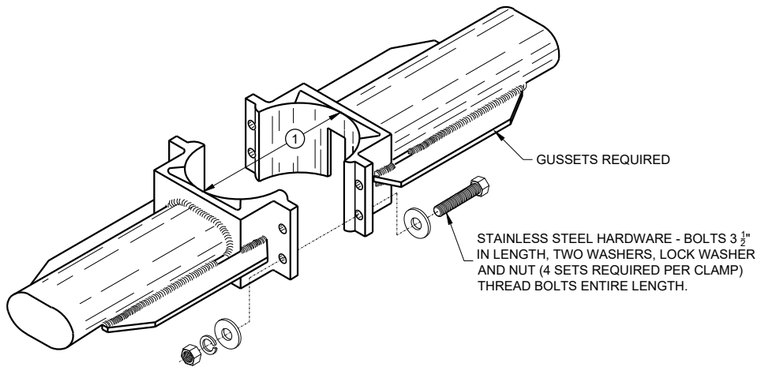
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

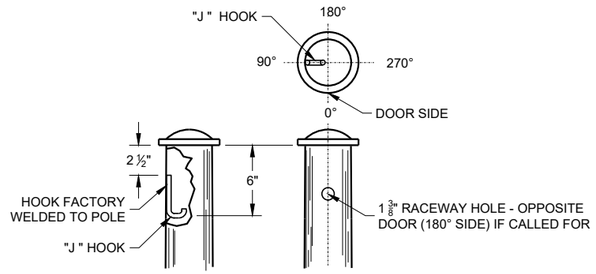
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



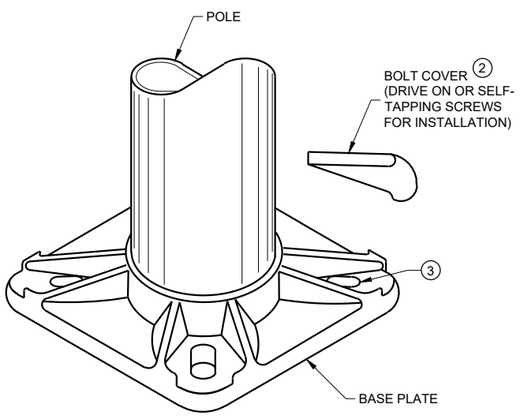
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



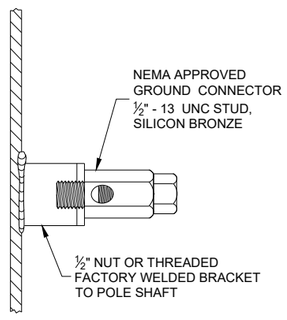
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

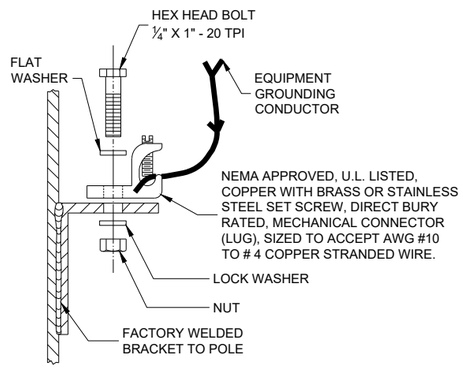


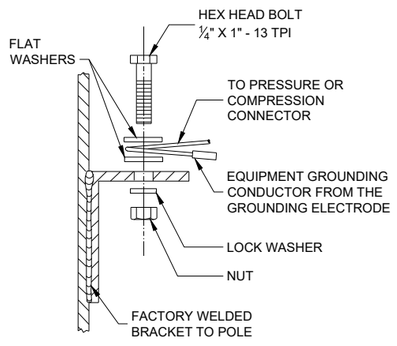
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 654

FHWA

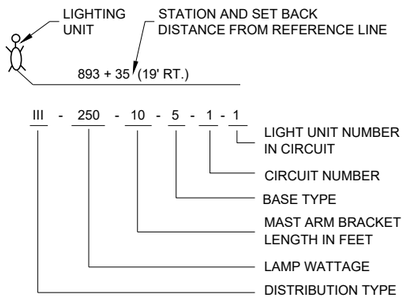
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SDD 09A01 - 15g

GENERAL NOTES

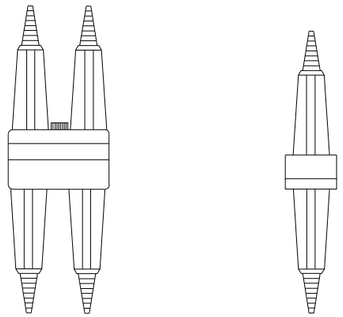
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

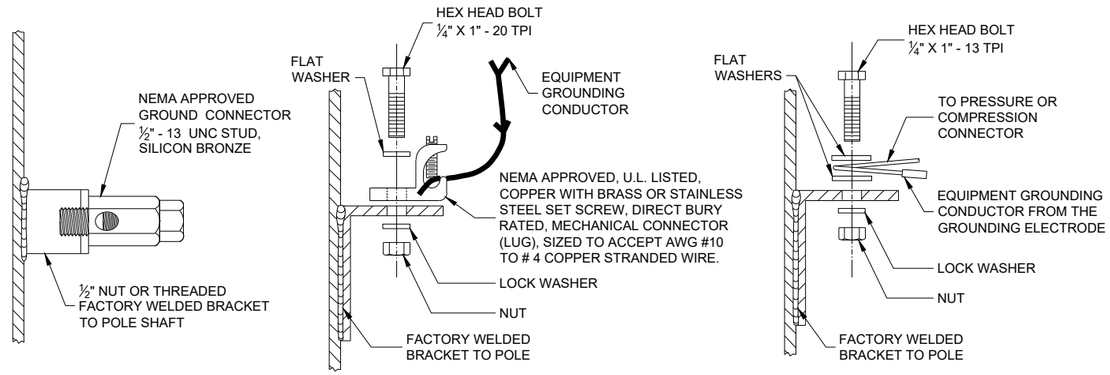


LIGHTING UNIT CODE
(TYPICAL)

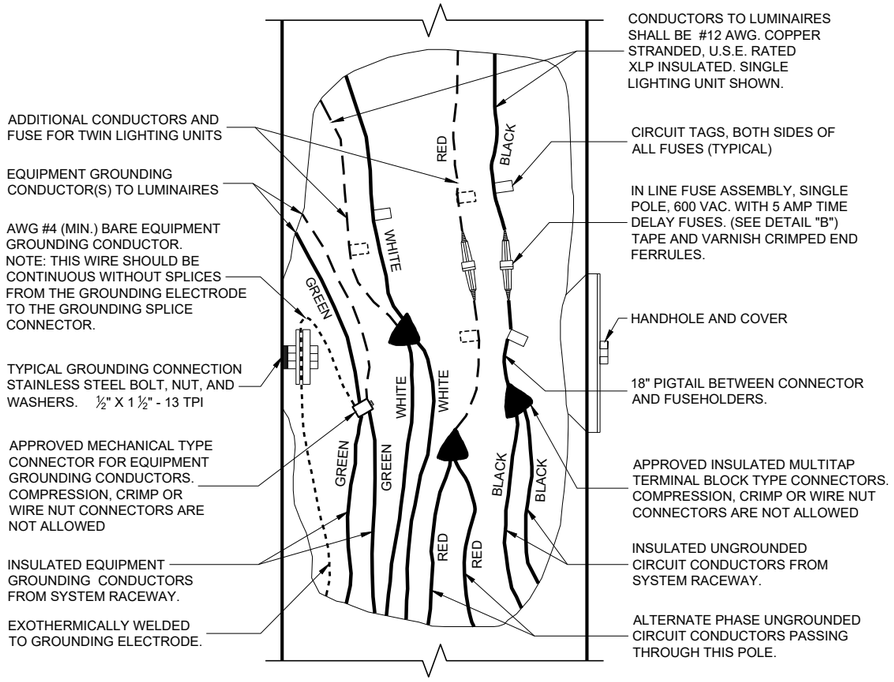


DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT

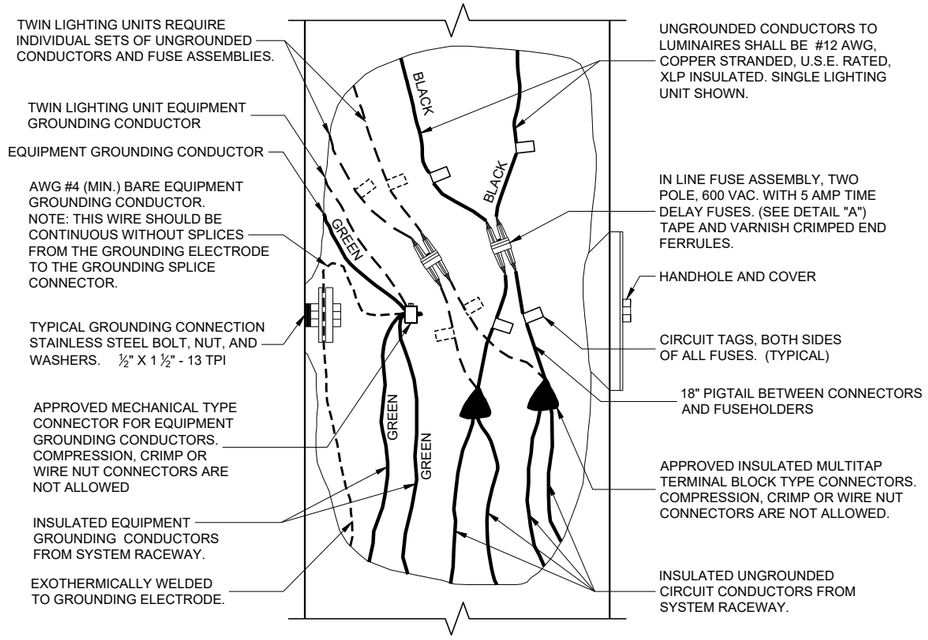
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

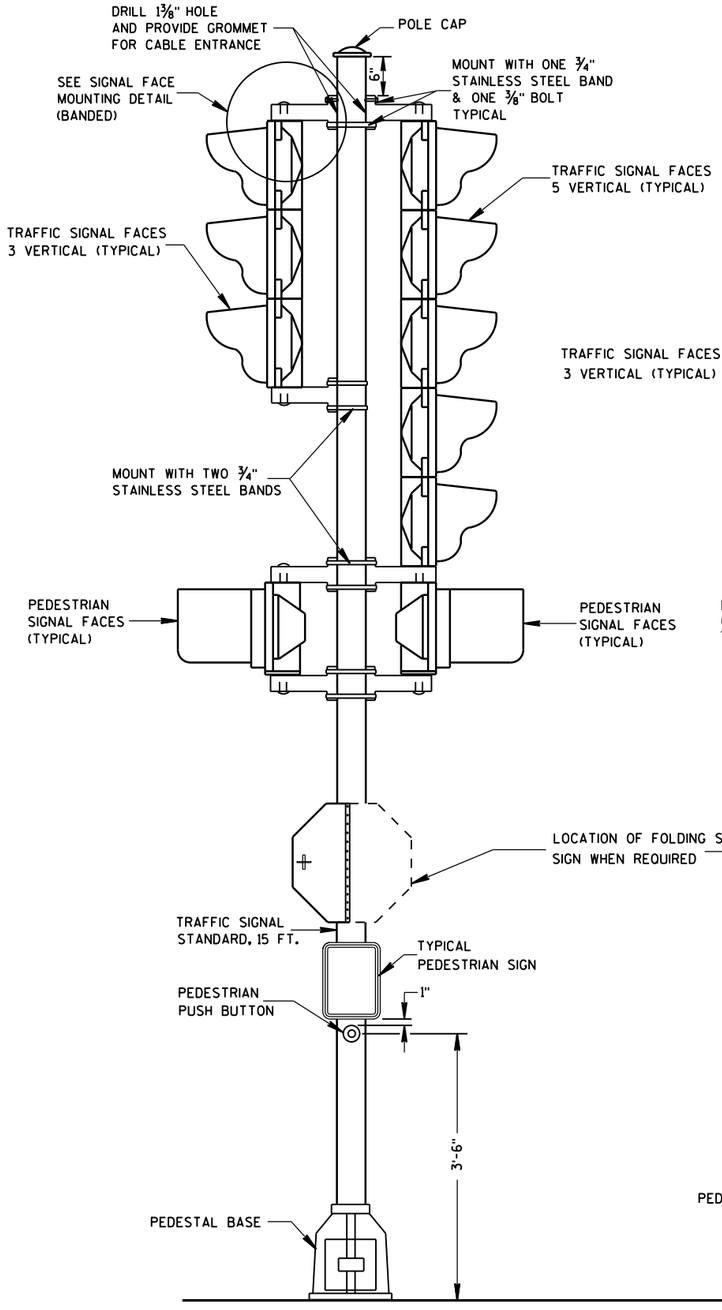
NON - FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

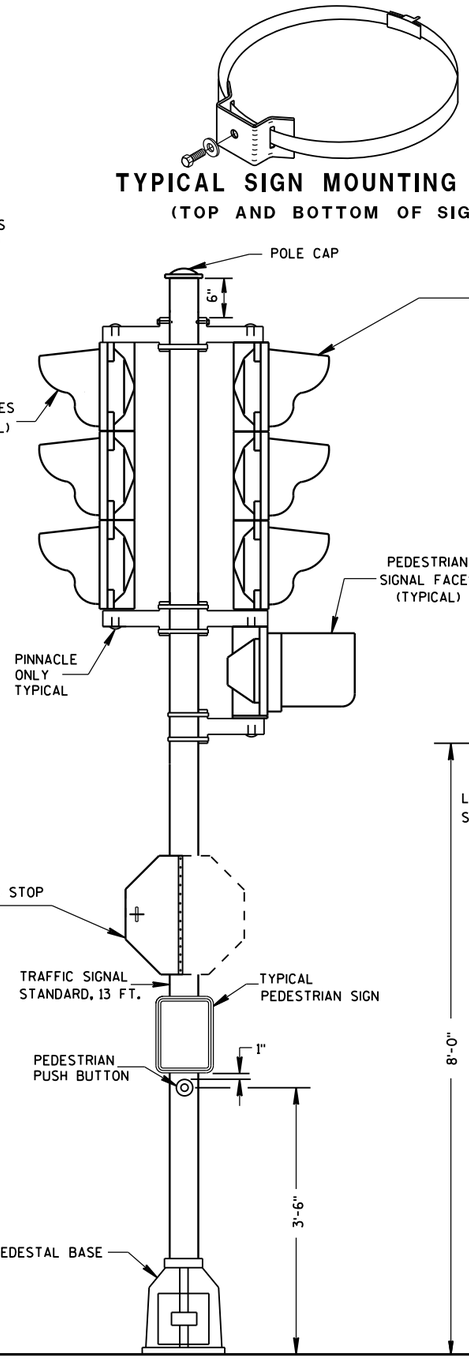
APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 655

FHWA

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SDD 09E03 - 06

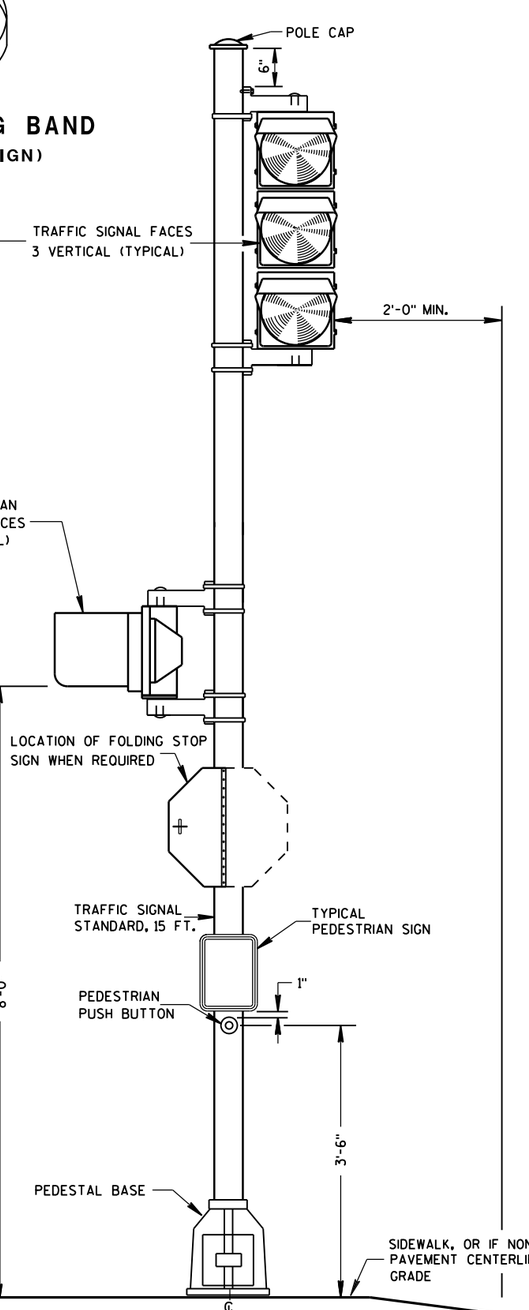


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

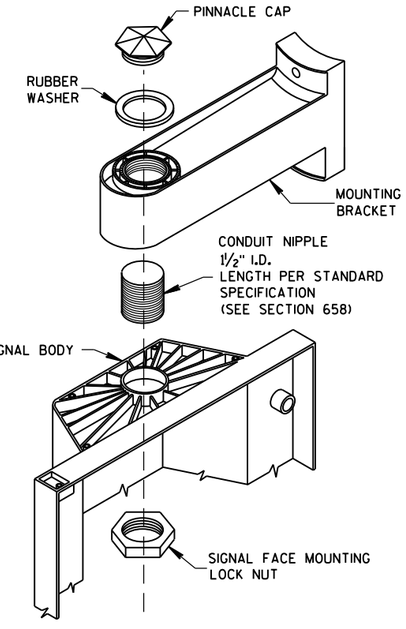
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SIGNAL FACE MOUNTING DETAIL
(BANDED)

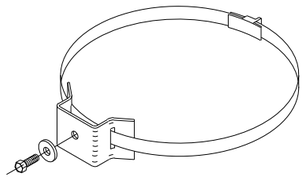
TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

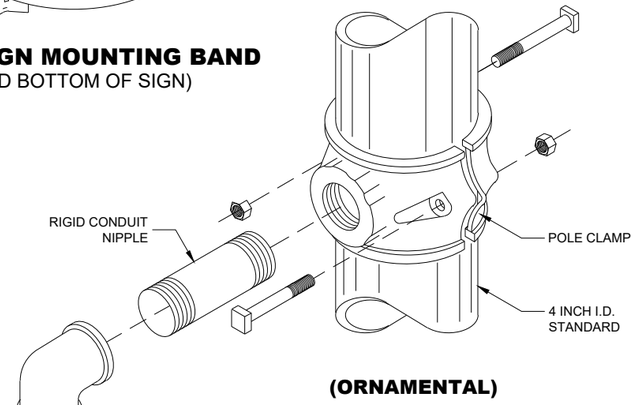
APPROVED
2/28/2013 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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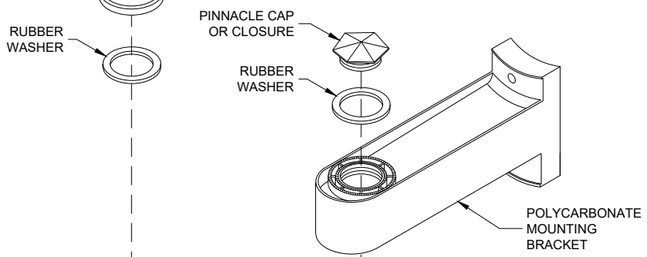
S.D.D. 9 E 6-5



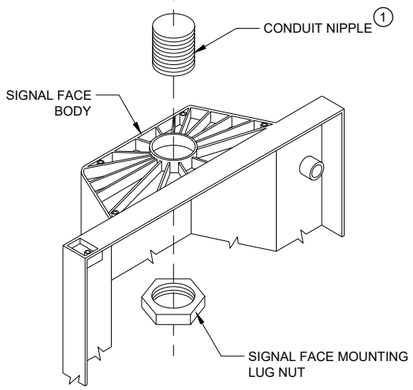
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



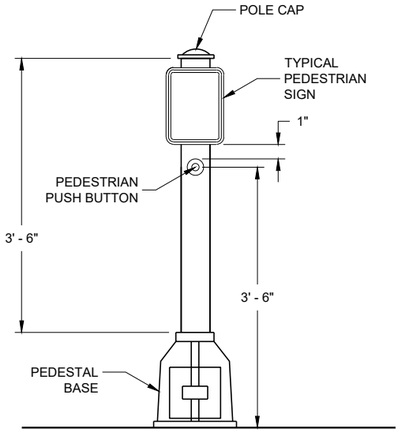
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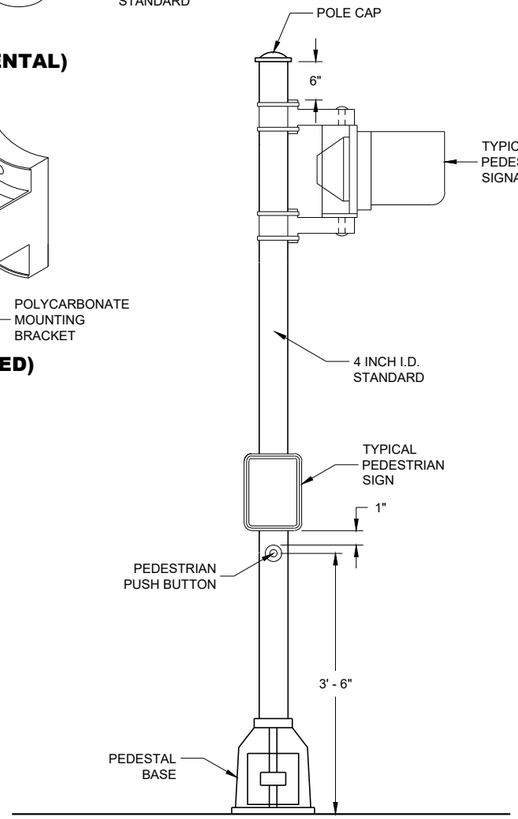
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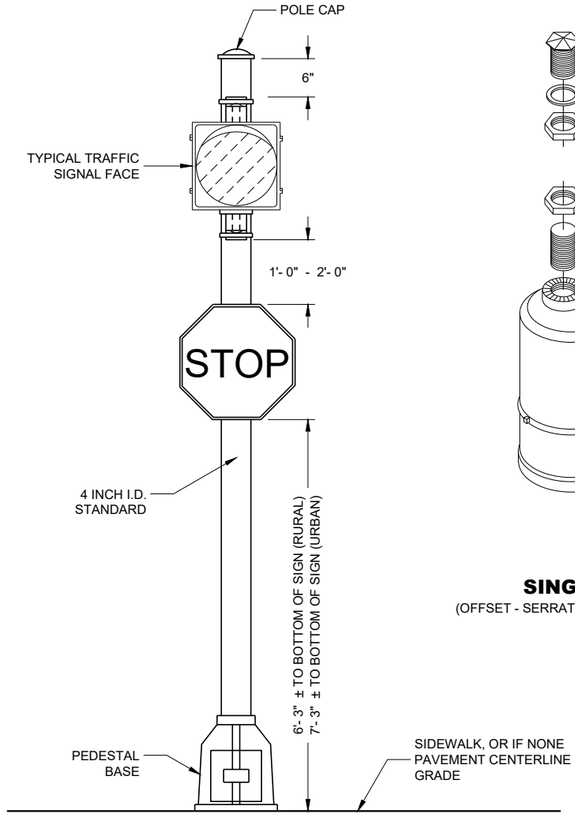
SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING



PEDESTRIAN FACE STANDARD - 10 FT.
(WALK - DON'T WALK)



STANDARD FLASHER
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS, UNLESS APPROVED BY THE ENGINEER IN THE FIELD.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

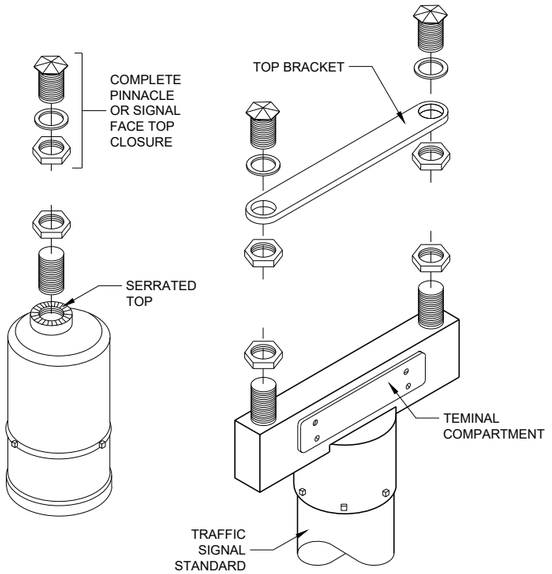
LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE REGION TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(1) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACESAND BRACKET ENDS.



SINGLE
(OFFSET - SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

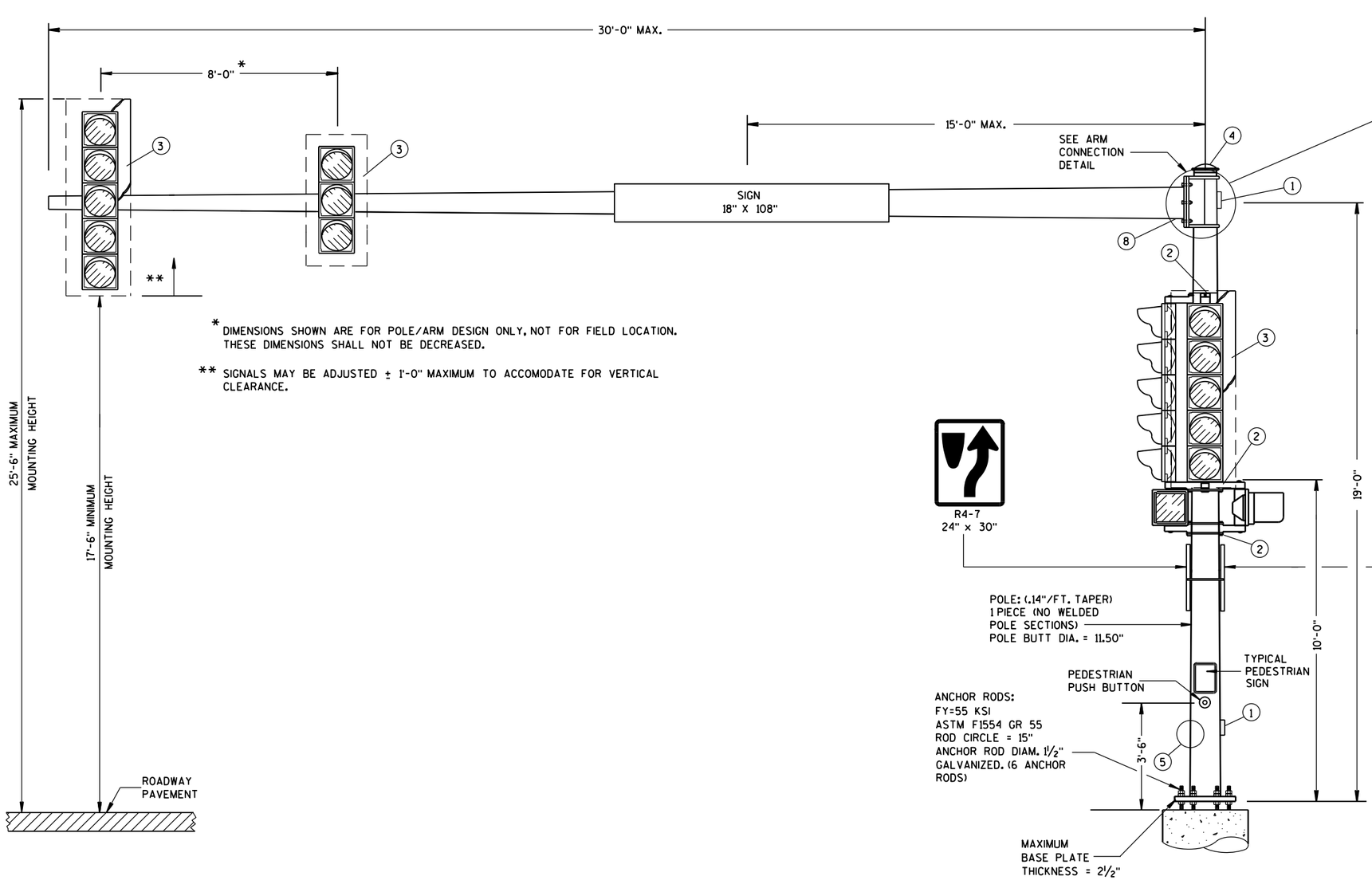
APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 657

FHWA

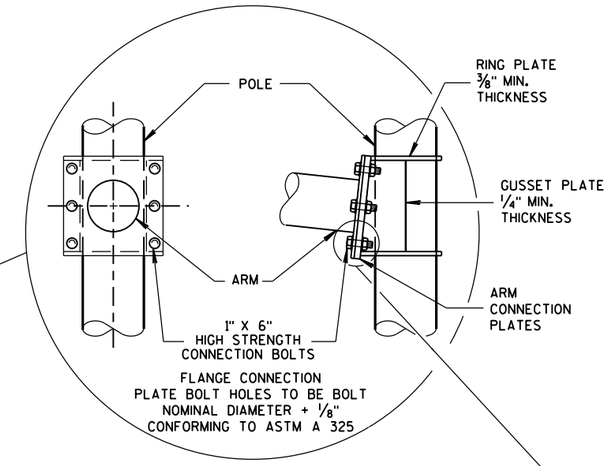
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SDD 09E07 - 06

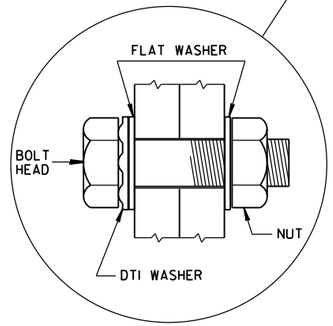


* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

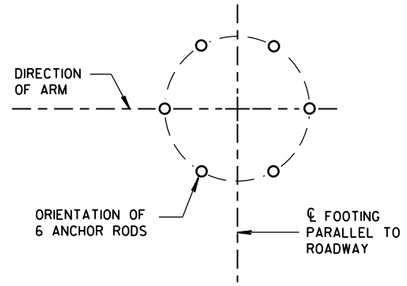
** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL



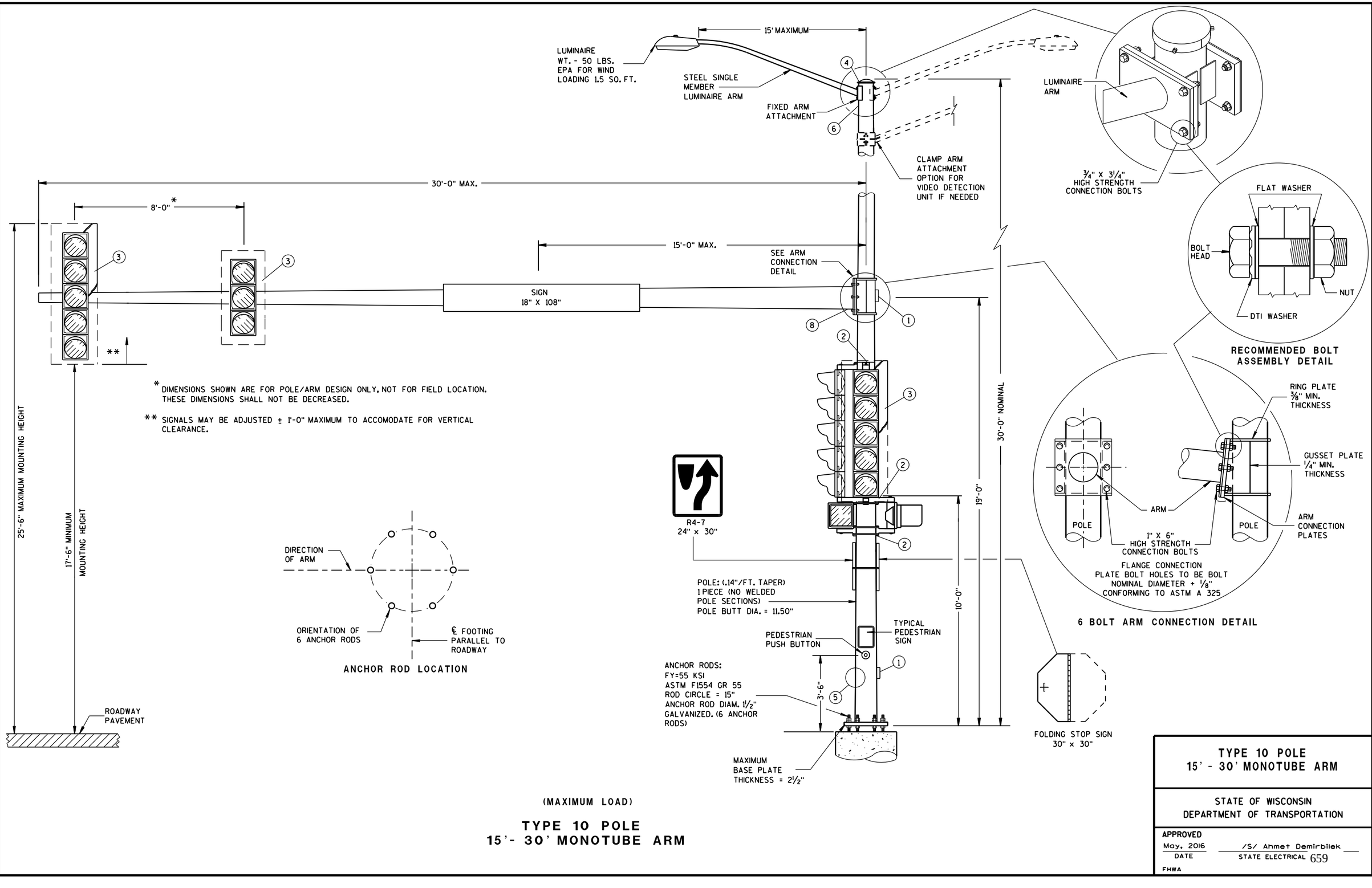
ANCHOR ROD LOCATION

(MAXIMUM LOAD)

TYPE 9 POLE 15'- 30' MONOTUBE ARM

TYPE 9 POLE 15' - 30' MONOTUBE ARM	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
May, 2016 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL 658
FHWA	

6
S.D.D. 9 E 8-8a



* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

(MAXIMUM LOAD)

TYPE 10 POLE
15'- 30' MONOTUBE ARM

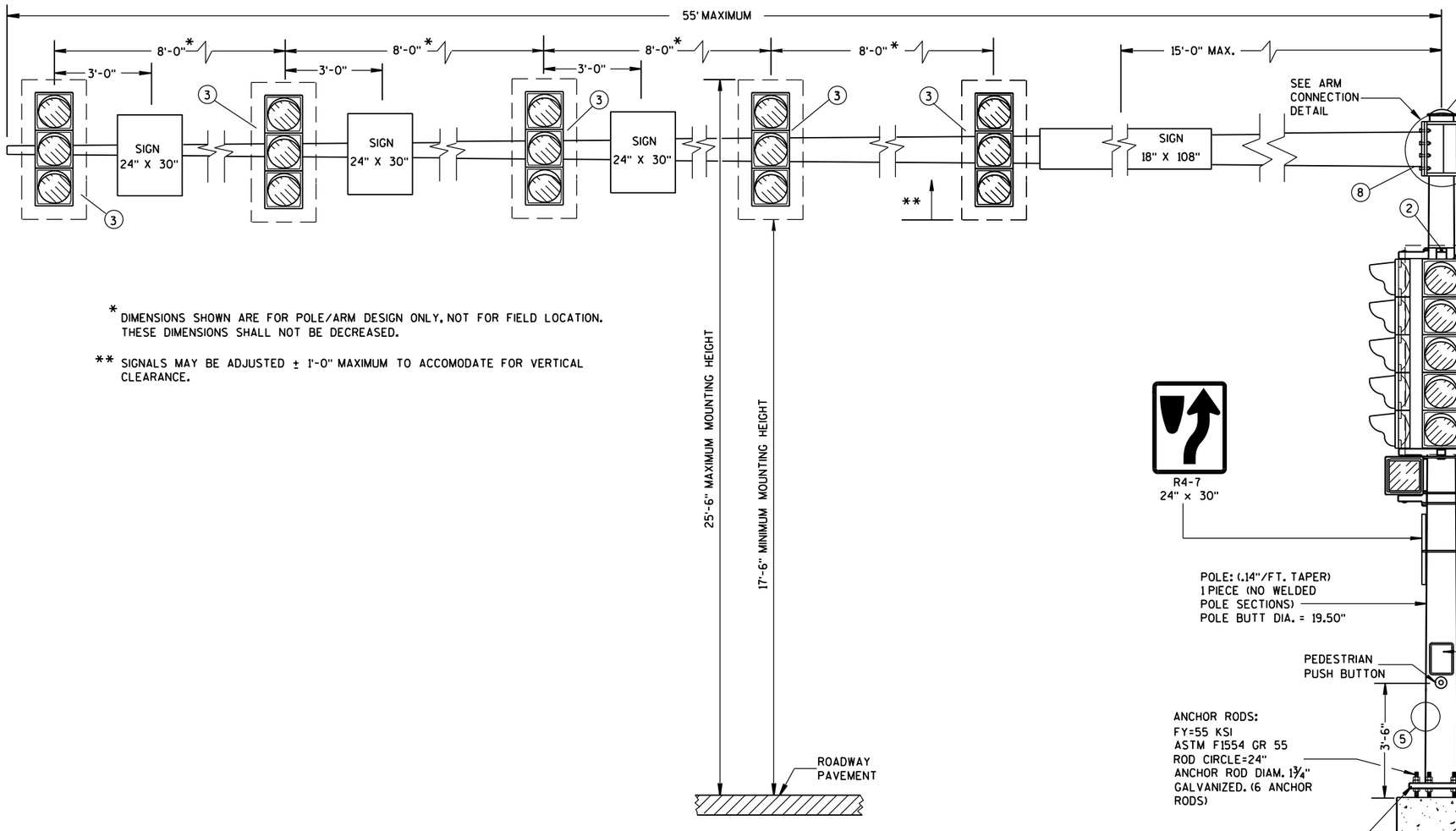
TYPE 10 POLE
15' - 30' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May, 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 659
FHWA

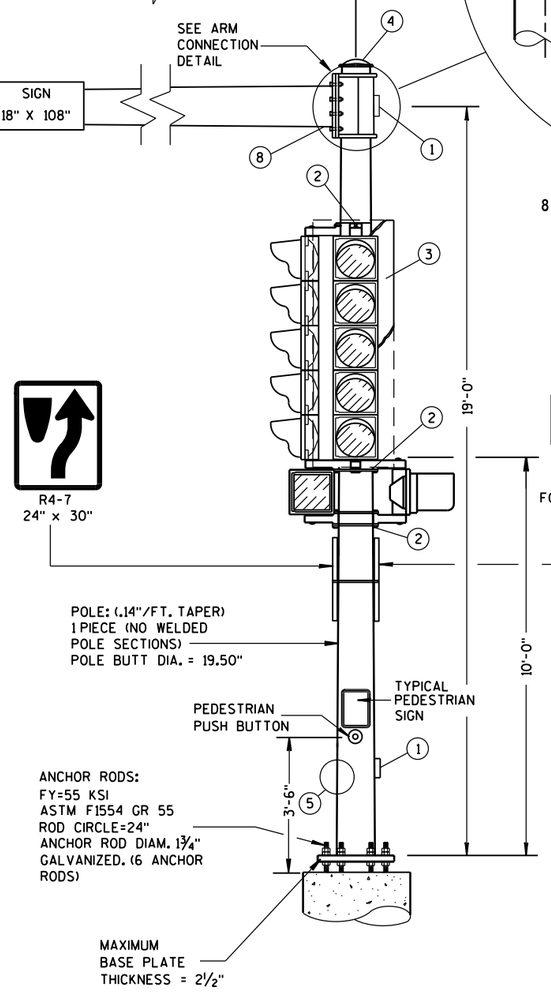
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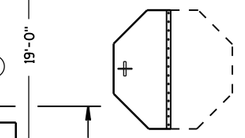
S.D.D. 9 E 8-8b

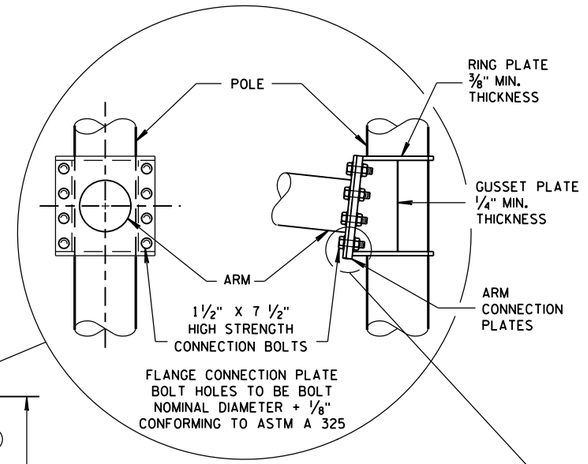


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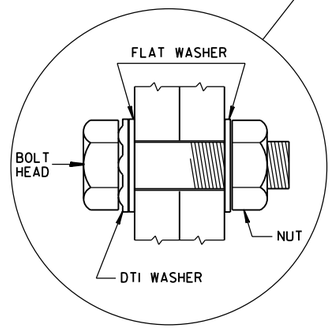
** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.



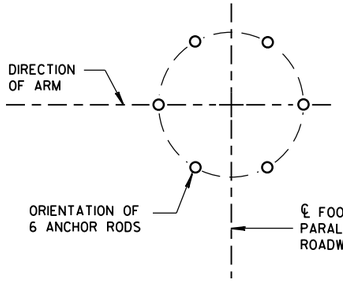




8 BOLT ARM CONNECTION DETAIL



RECOMMENDED
BOLT ASSEMBLY
DETAIL



ANCHOR ROD LOCATION

(MAXIMUM LOAD)

TYPE 12 POLE 35'- 55' MONOTUBE ARM

TYPE 12 POLE
35' - 55' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

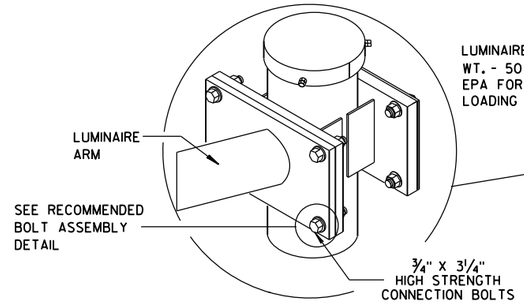
APPROVED
May, 2015
DATE

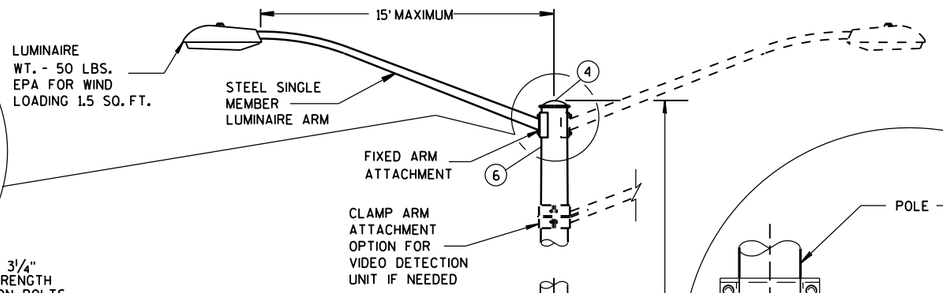
/S/ Ahmet Demirbilek
STATE ELECTRICAL 660

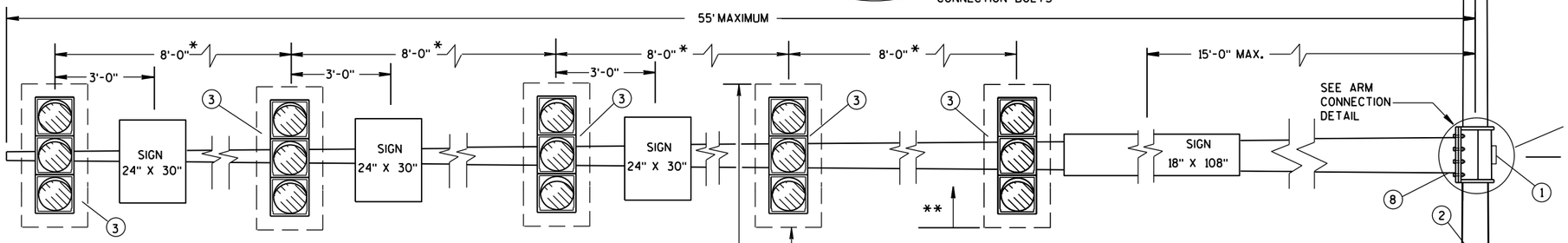
FHWA

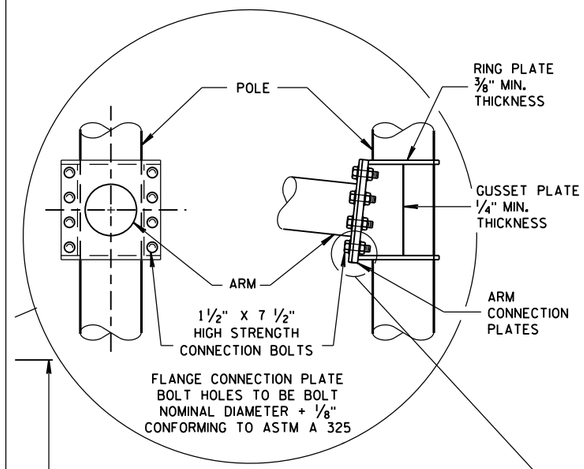
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S.D.D. 9 E 8-8c





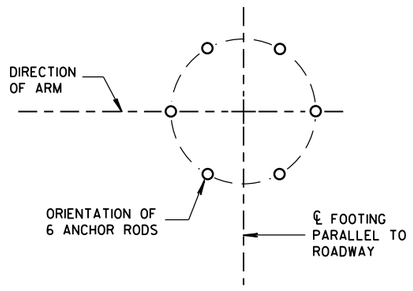




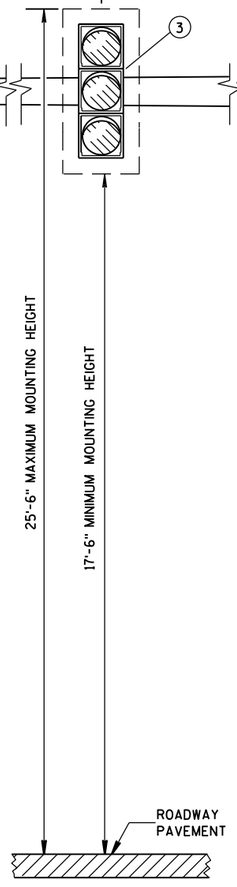
8 BOLT ARM CONNECTION DETAIL

* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

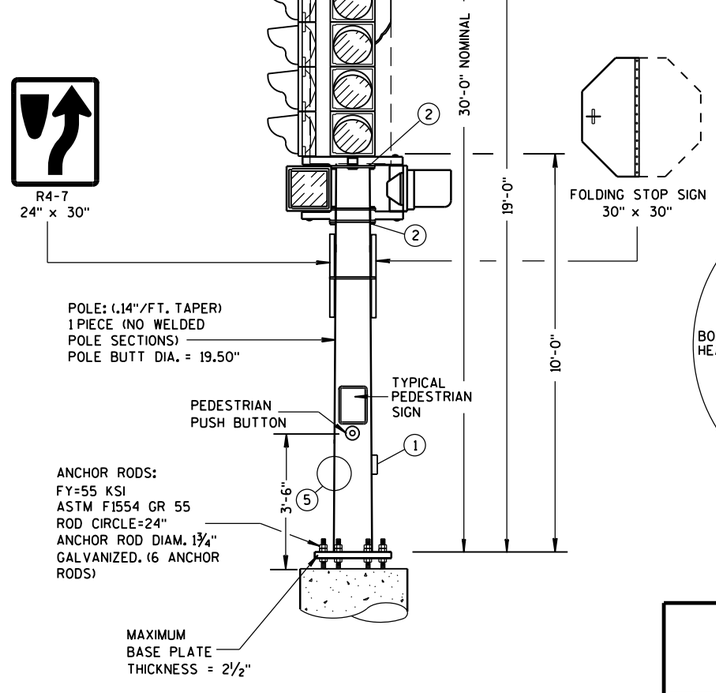
** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

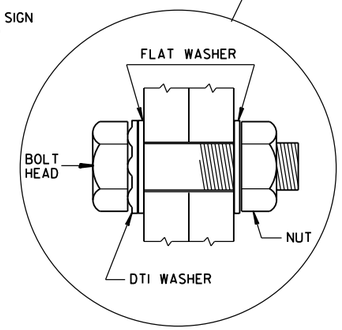


ANCHOR ROD LOCATION



(MAXIMUM LOAD)





RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 13 POLE 35'- 55' MONOTUBE ARM

TYPE 13 POLE 35' - 55' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6
S.D.D. 9 E 8-8d

GENERAL NOTES

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

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15-FOOT TO 30-FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35-FOOT TO 55-FOOT.

MONOTUBE POLE AND ARM SHALL BE GALVANIZED STEEL.

RING-STIFFENED BUILT-UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE (1) PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3 % ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO 2013 6TH EDITION AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR TRAFFIC AND LIGHTING STRUCTURES AND AS FOLLOWS:

- CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.
- CATEGORY II FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 12 AND TYPE 13 STRUCTURES.
- 90 MPH (3-SECOND GUST) WIND SPEED AND A 50 YEAR DESIGN LIFE.

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" S.S. BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR AS DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEADS AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HANDHOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING, (SEE SPECIFICATIONS SEC. 658).

(3) SECURELY MOUNT BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE END OF THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY-WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HANDHOLE, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

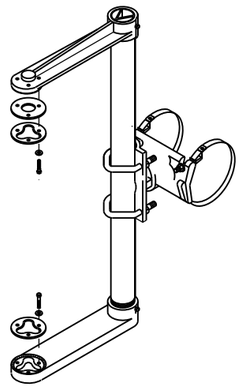
(6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

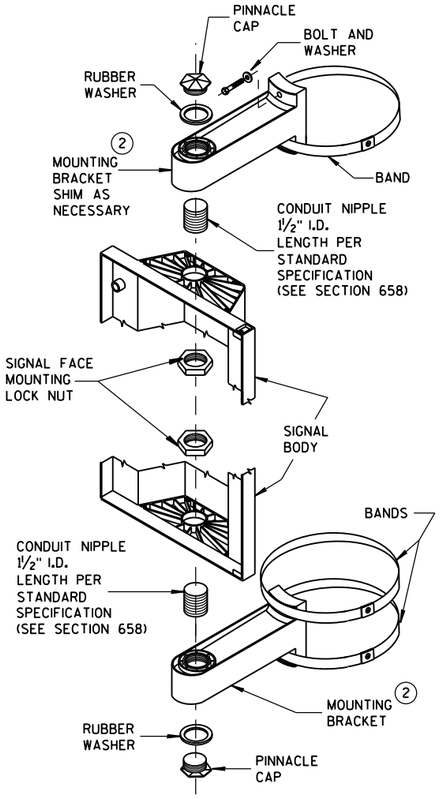
MOUNTING HEIGHT SHALL BE 6'-0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

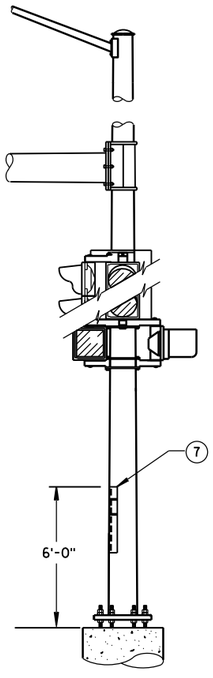


SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

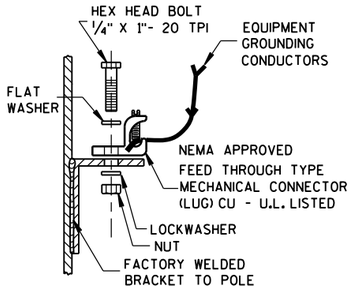
(MOUNT PER MANUFACTURER'S RECOMMENDATION)



SIGNAL FACE VERTICAL MOUNTING DETAIL

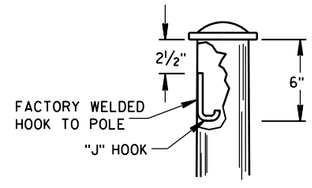


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



"J" HOOK WIRE SUPPORT (6)

GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

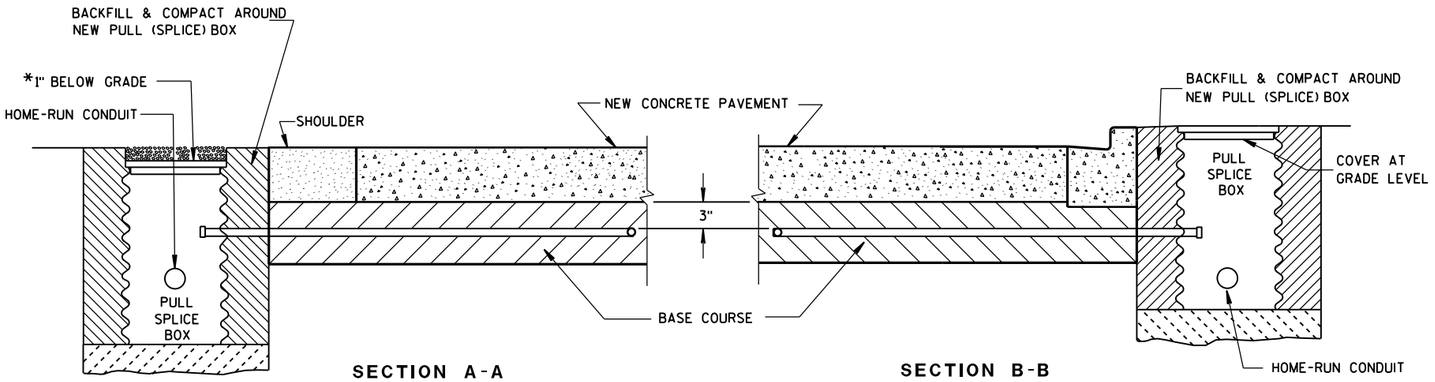
APPROVED
May 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 662
FHWA

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S.D.D. 9 E 8-8e

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S.D.D. 9 E 8-8e



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

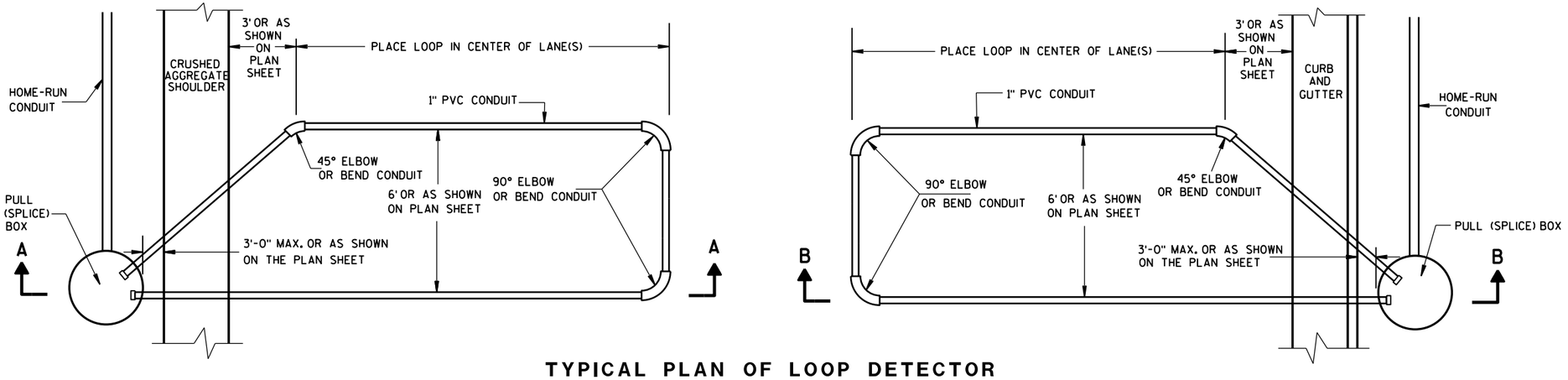
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICE CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE, SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 18" OR 24" PULL (SPLICE) BOX

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
FHWA

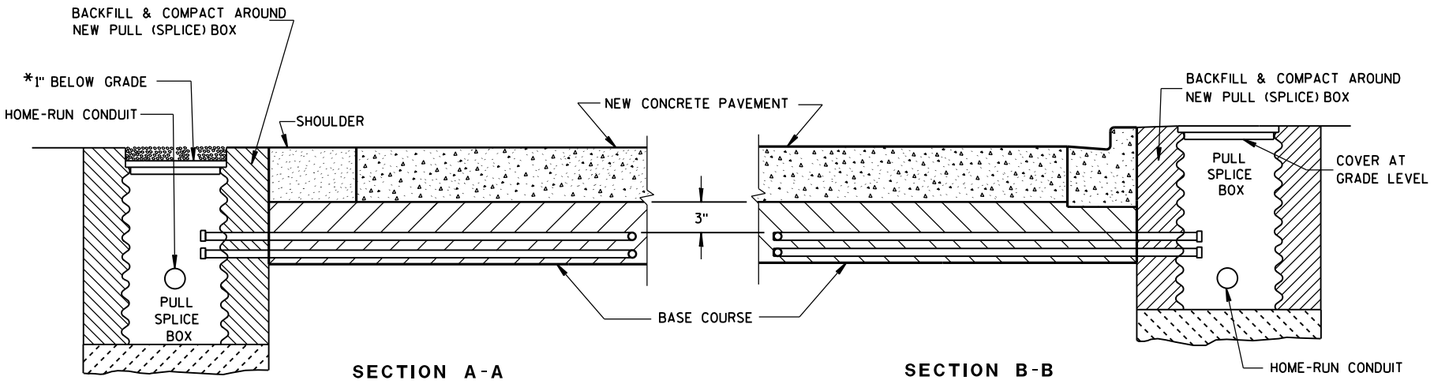
/S/ Ahmet Demirbilek
STATE ELECTRICAL 663

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S.D.D. 9 F 15-4a

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S.D.D. 9 F 15-4a



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

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PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

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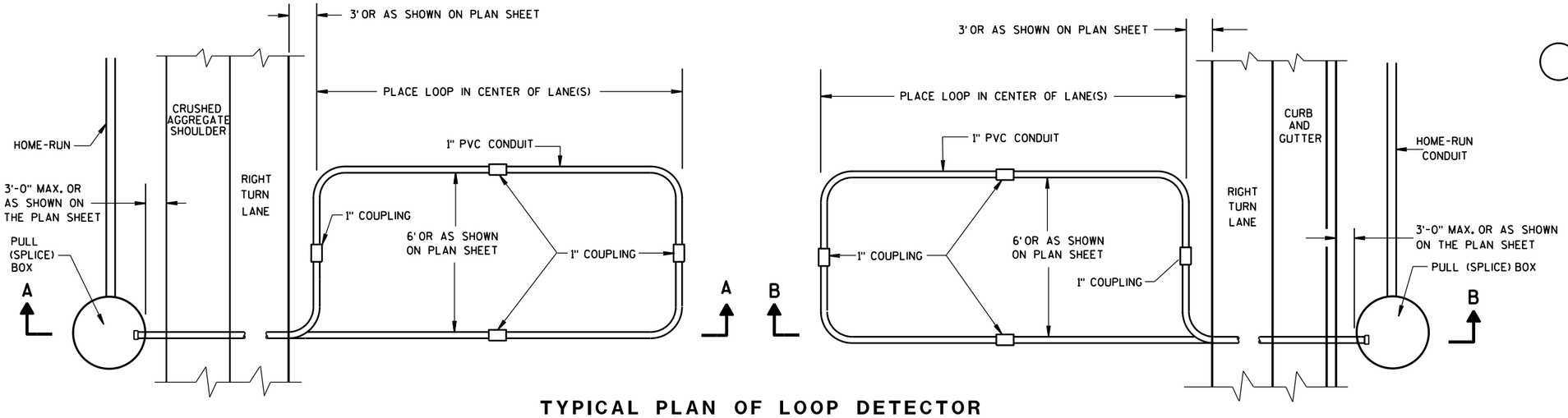
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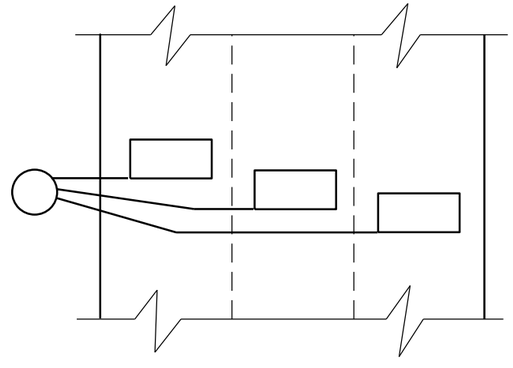
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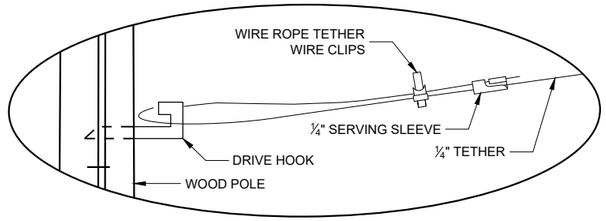
TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED Sept. 2014 — DATE /S/ Ahmet Demirbilek — STATE ELECTRICAL FHWA

MINIMUM POLE LENGTHS	POLE BURIAL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

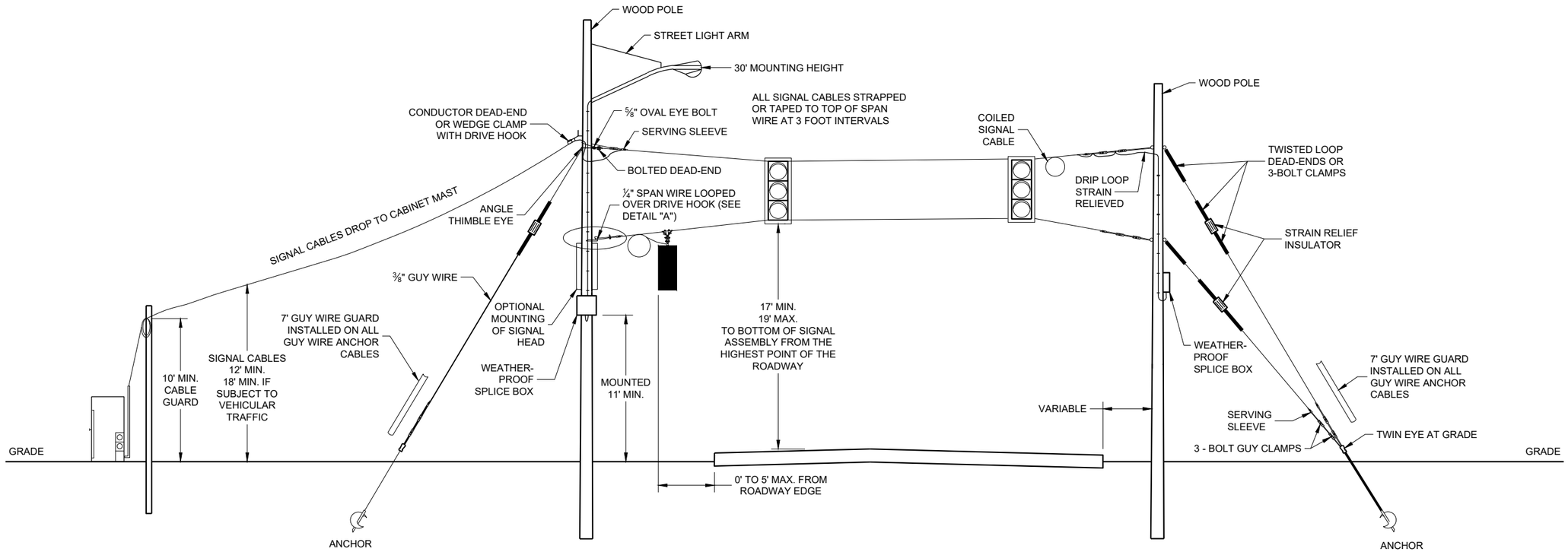


DETAIL "A"

GENERAL NOTES

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

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

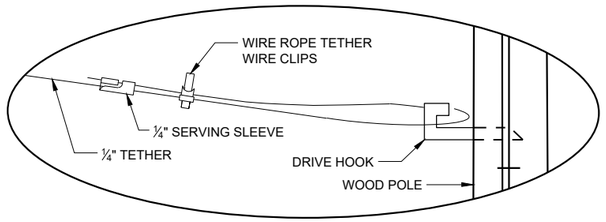
APPROVED
June 2015
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 665

FHWA

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SDD09G01 - 04a

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

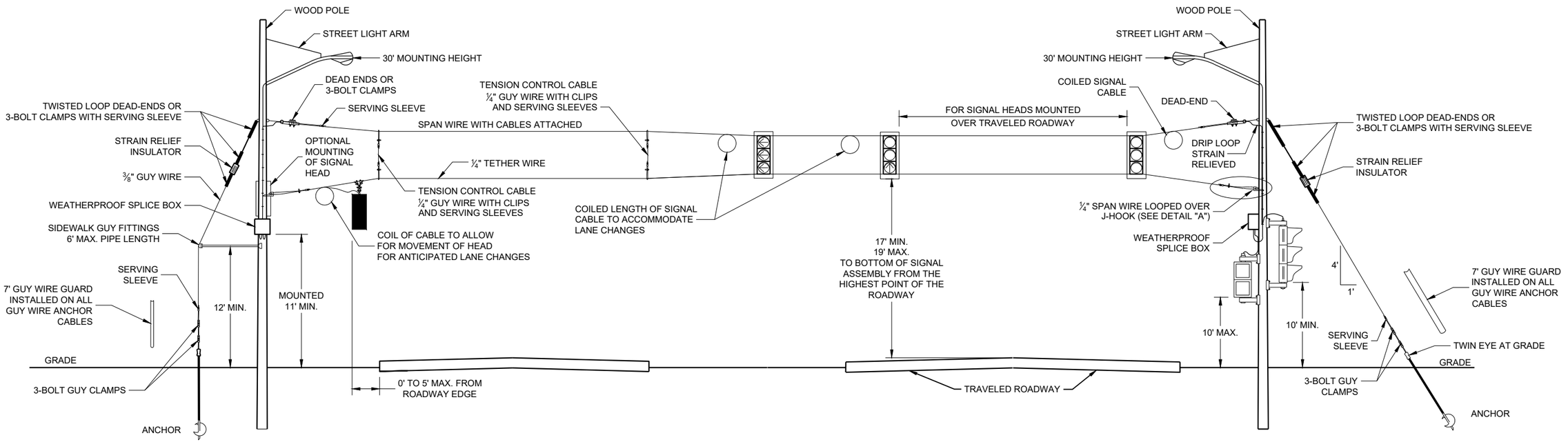


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SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 666
FHWA

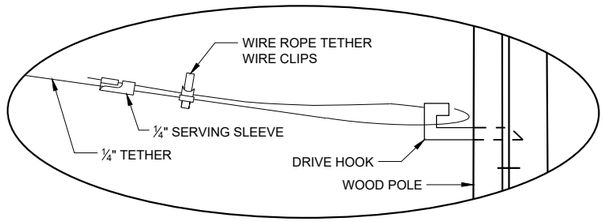
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SDD09G01 - 04b

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
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35'	IV	7'
40'	IV	8'
45'	IV	9'

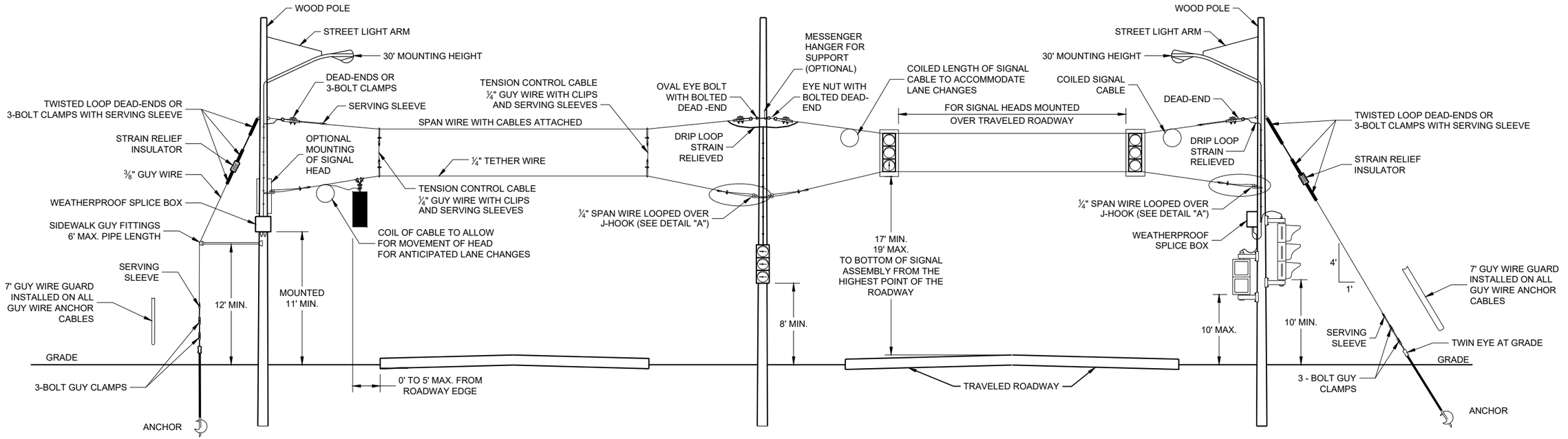


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SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI

667

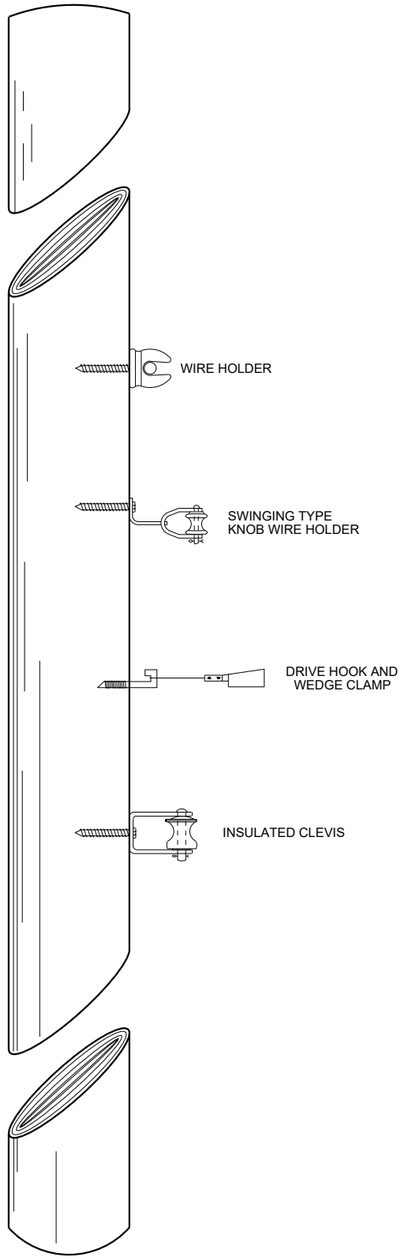
FHWA

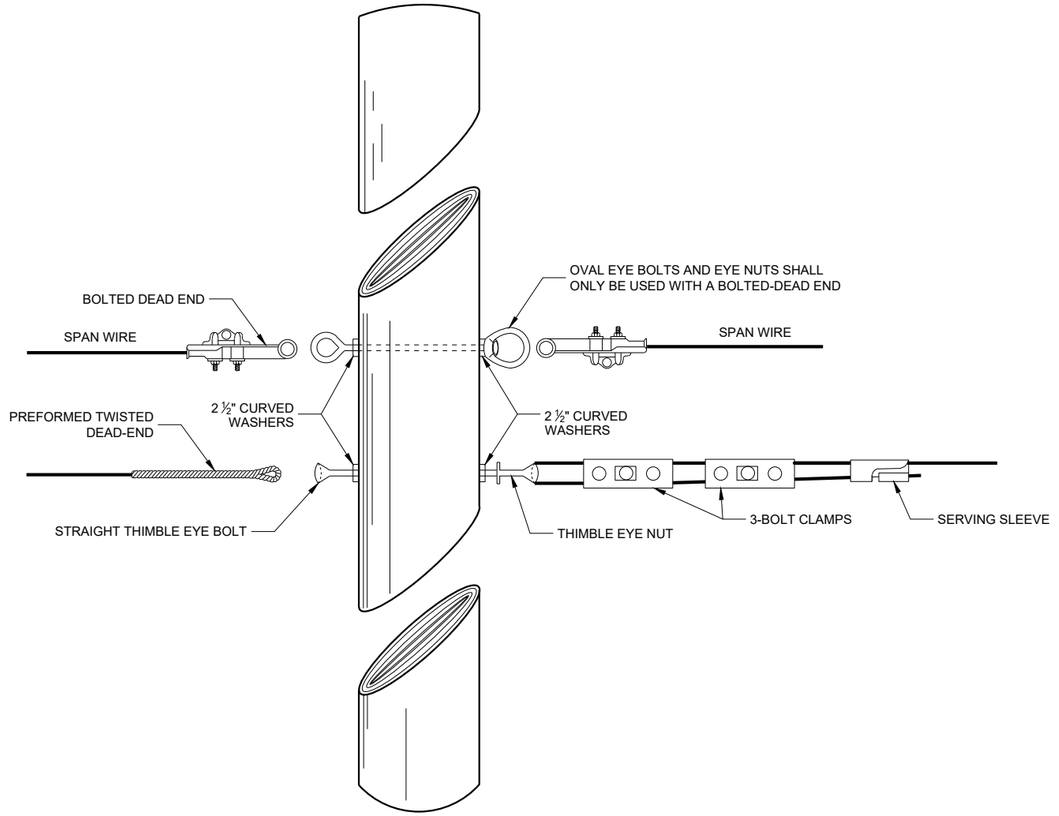
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SDD09G01 - 04c





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SDD 09G01 - 4d

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

668

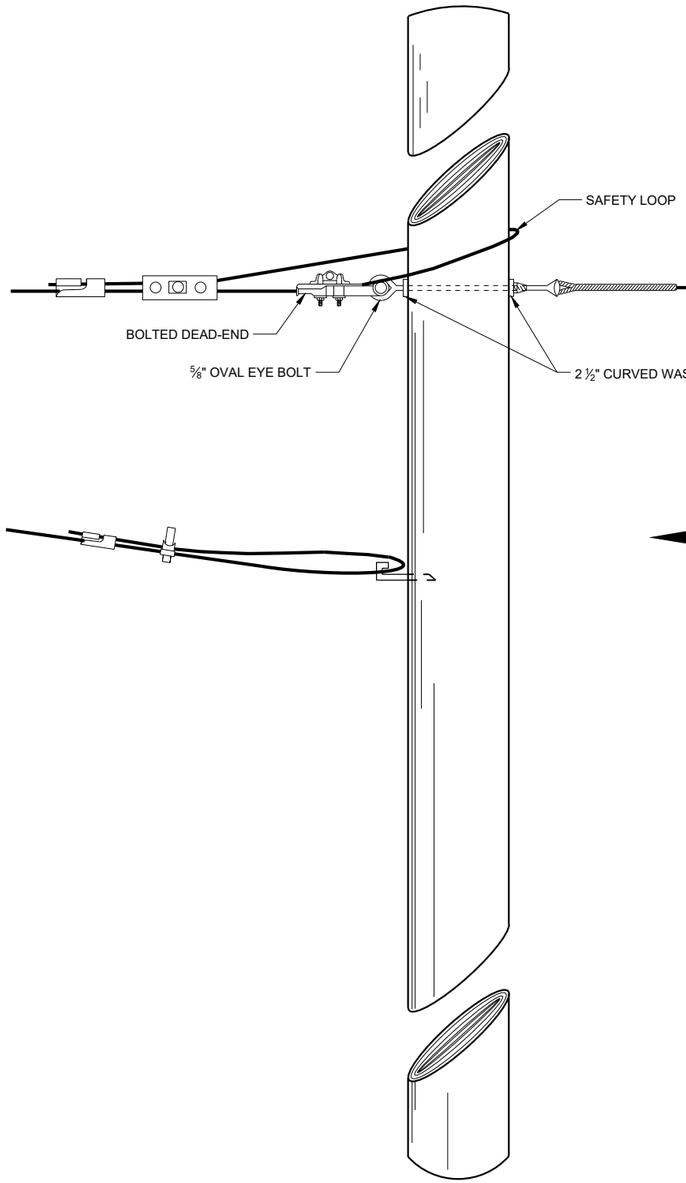
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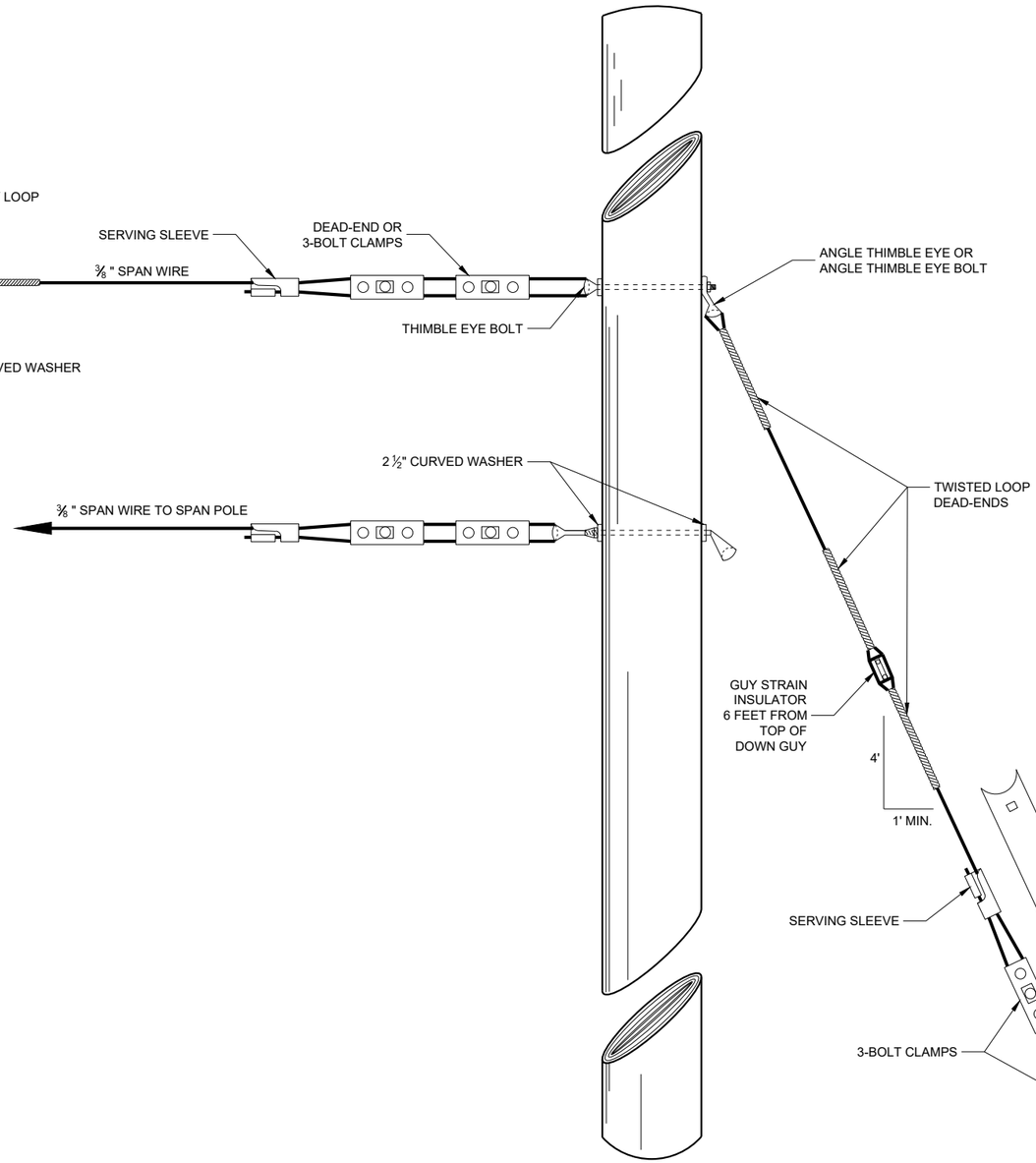
SDD 09G01 - 4d

GENERAL NOTES

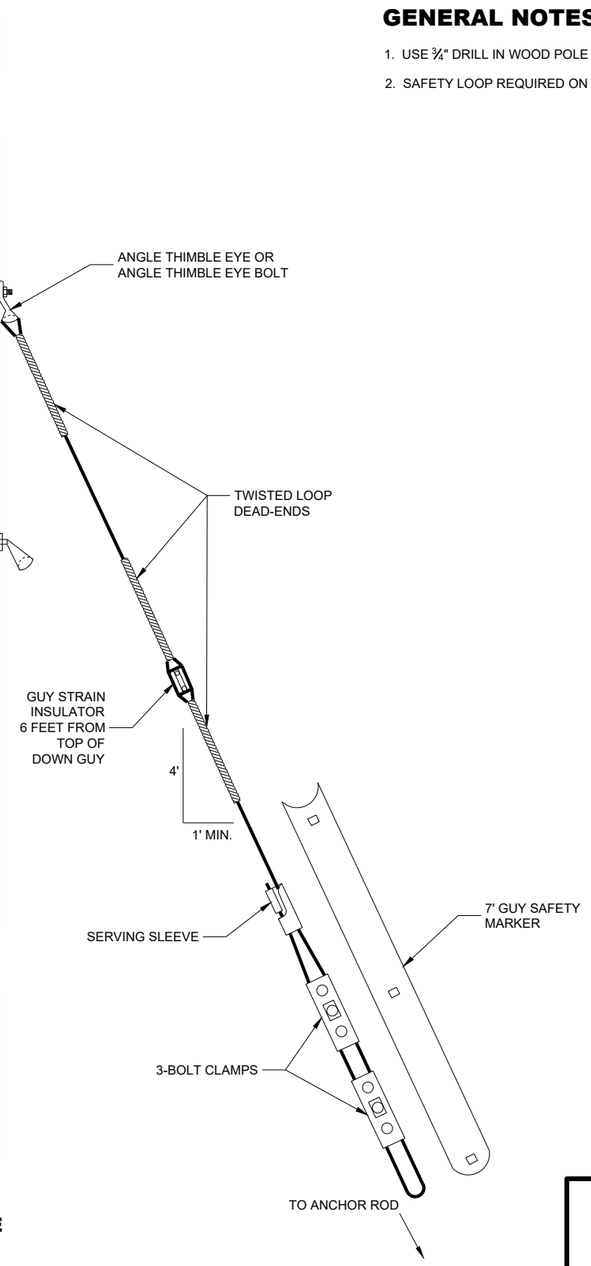
1. USE ¾" DRILL IN WOOD POLE TO PROVIDE FOR ⅝" BOLTS.
2. SAFETY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE



GUY POLE



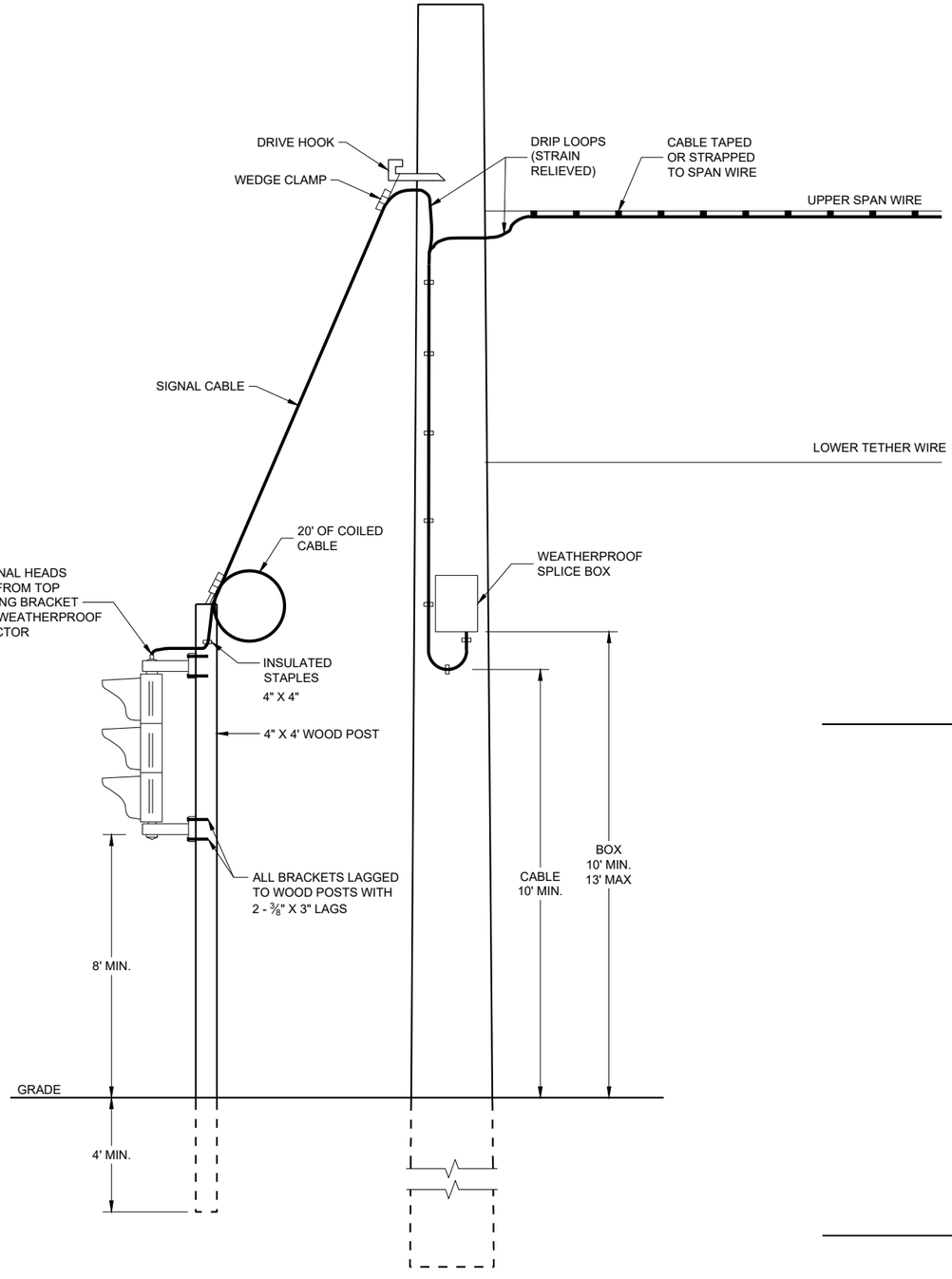
TYPICAL DEAD-ENDINGS OR GUYING

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

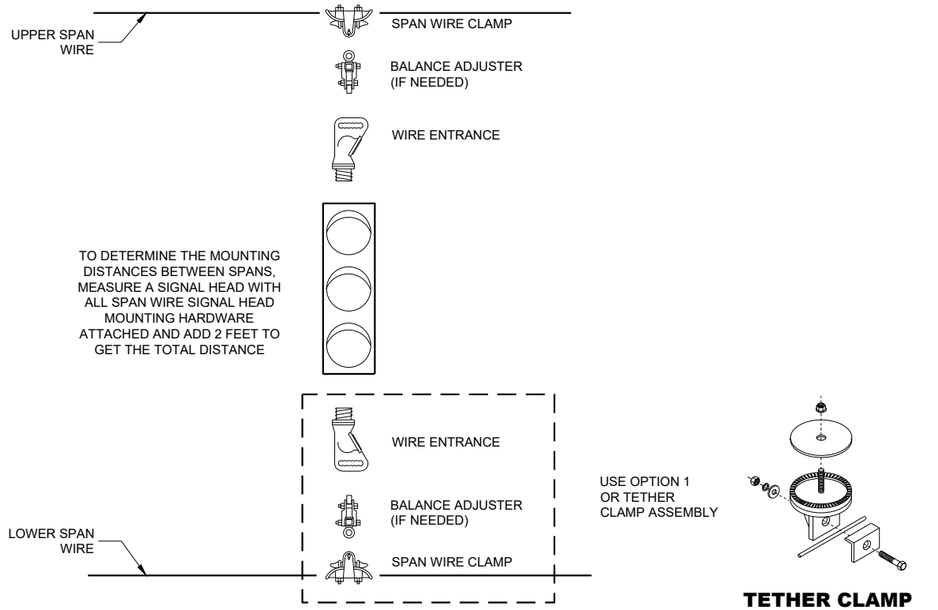
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ROADWAY STANDARDS DEVE ENGINEER
669
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TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL

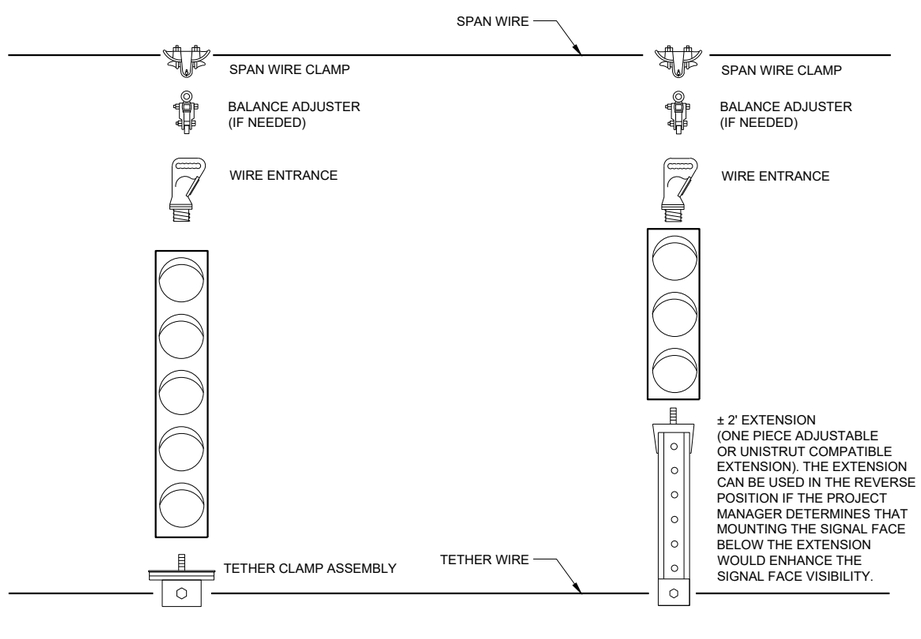


OPTION 1

USE OPTION 1 OR TETHER CLAMP ASSEMBLY

TETHER CLAMP ASSEMBLY OPTION

TYPICAL SPAN WIRE MOUNTING HARDWARE



5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

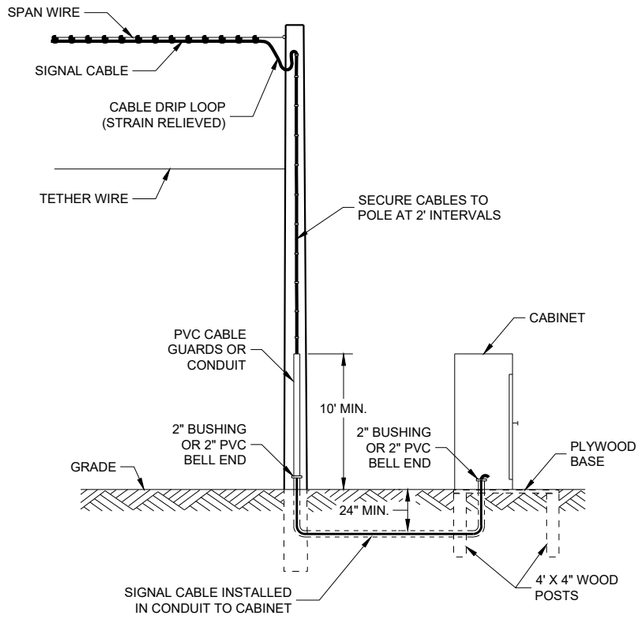
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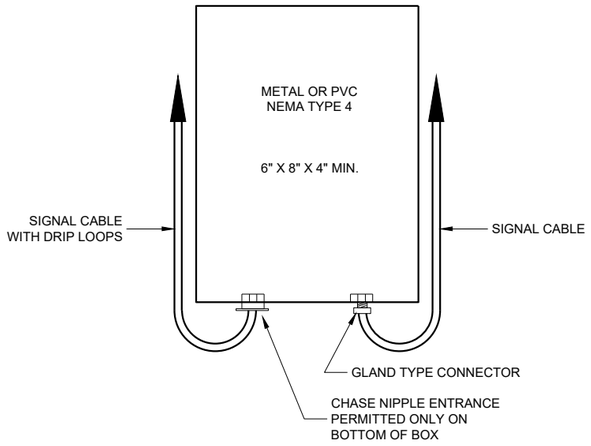
/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

670

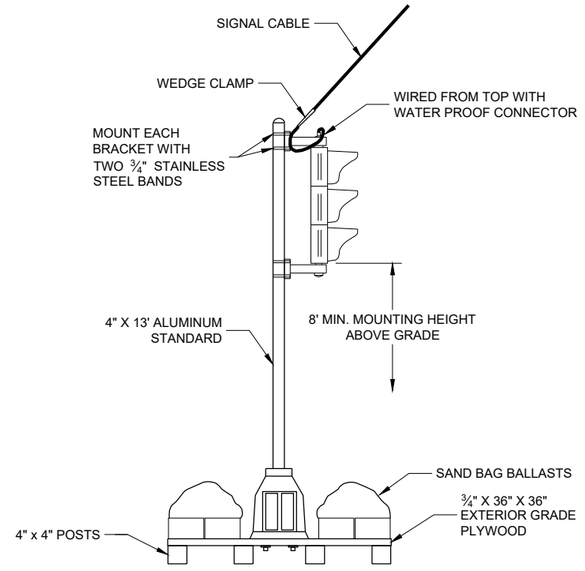
FHWA

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SDD 09G01 - 4f

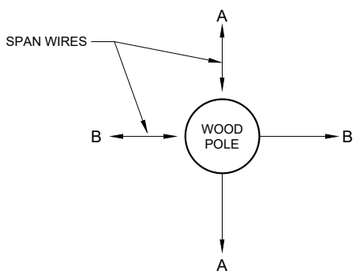




SPLICE BOX

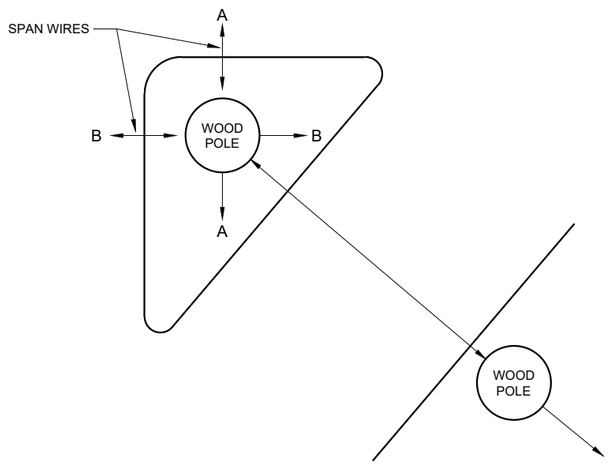


TYPICAL SKID TYPE TEMPORARY

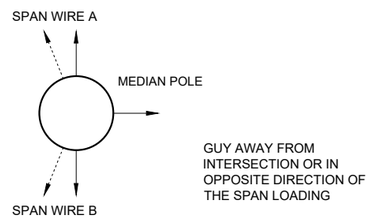


ALL DOWN OR SIDEWALK GUYS
SHALL BE INSTALLED IN THE
OPOSITE DIRECTION OF THE
STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



GUY AWAY FROM
INTERSECTION OR IN
OPPOSITE DIRECTION OF
THE SPAN LOADING

MEDIAN POLES

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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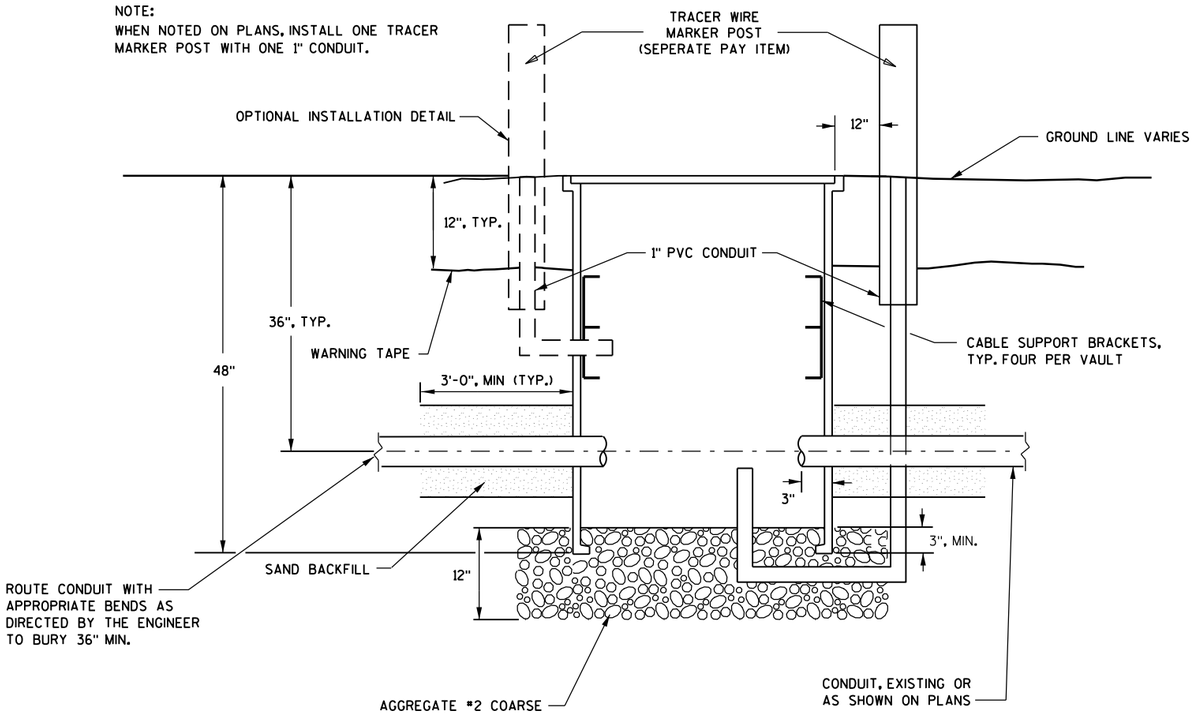
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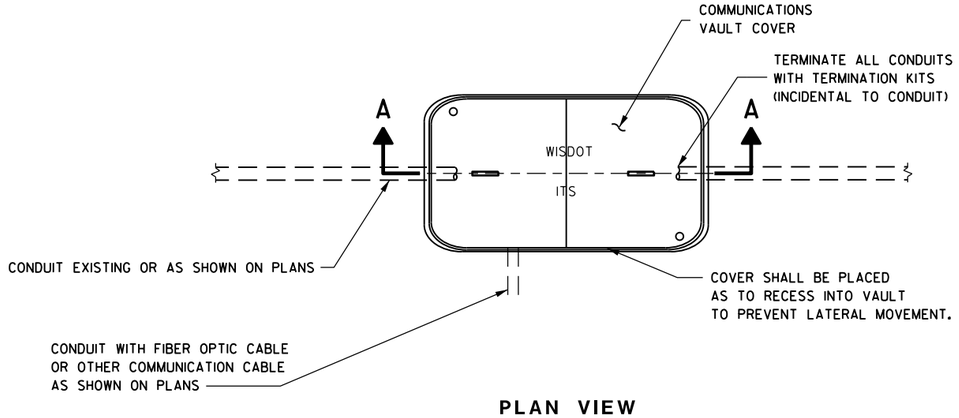
SDD 09G01 - 4g

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SDD 09G01 - 4g



SECTION A-A



PLAN VIEW

COMMUNICATIONS VAULT TYPE 1

GENERAL NOTES

PROVIDE VAULT WITH OPEN BASE.

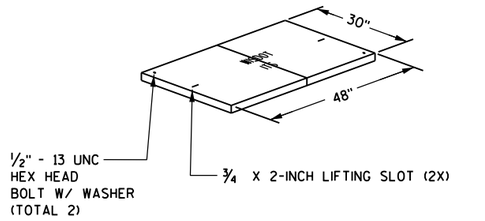
COVER SHALL HAVE A MINIMUM DESIGN LOAD OF 15,000 LBS AND SHALL LOCK.

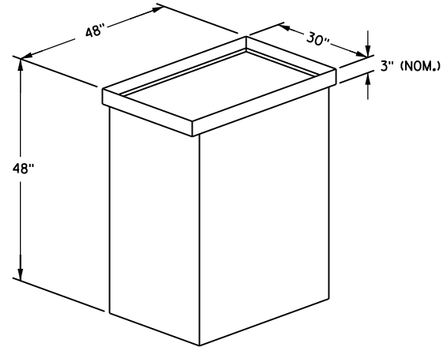
ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION, OR PUNCH DRIVEN AT TIME OF PLACEMENT.

VAULTS SHALL BE OF ONE-PIECE CONSTRUCTION. TWO-PIECE/STACKABLE VAULTS WILL NOT BE PERMITTED.

FIELD PLACEMENT OF COMMUNICATIONS VAULTS SHALL BE AS DIRECTED BY THE ENGINEER.

FIBER TRACER MARKER POSTS SHALL BE CONSTRUCTED WITH HIGH-IMPACT PLASTIC MATERIAL WHICH IS FADE RESISTANT AND UV STABLE. ALL HARDWARE SHALL BE STAINLESS STEEL AND CONTAIN A MINIMUM OF FIVE STANDARD TERMINALS.





ISOMETRIC VIEW

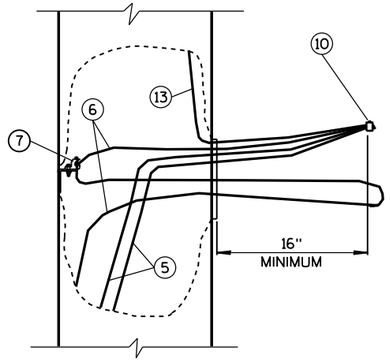
COMMUNICATION VAULT
TYPE 1

STATE OF WISCONSIN
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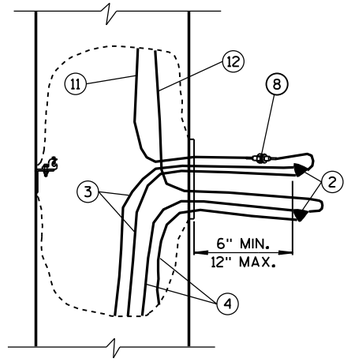
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May, 2017
DATE
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S.D.D. 9 H 9-2

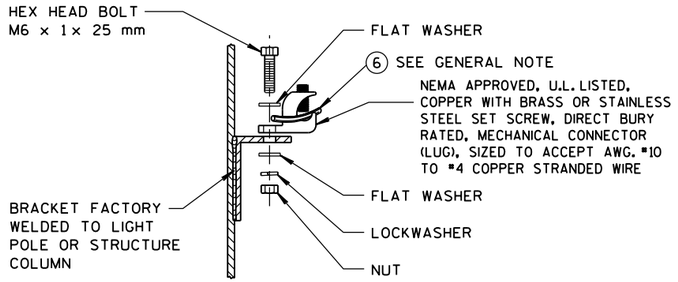


EQUIPMENT GROUNDING CONDUCTOR SLACK



UNGROUNDED CONDUCTOR SLACK (AND GROUNDED NEUTRAL SLACK IN GROUNDED NEUTRAL SYSTEM)

TYPICAL CONDUCTOR SLACK AT HANDHOLES



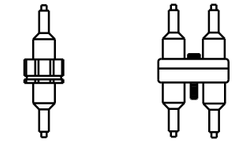
HANDHOLE GROUNDING LUG

(NUT, BOLT, WASHERS, AND LOCK WASHERS SHALL BE STAINLESS STEEL)

CONDUCTOR COLOR CODES

KEY	CONDUCTOR	COLOR
3	UNGROUNDED LINE WIRE	*
4	GROUNDED LINE WIRE	WHITE
5	SYSTEM GROUNDING LINE WIRE	GREEN
6	GROUNDING ELECTRODE CONDUCTOR	BARE
11	UNGROUNDED POLE WIRE	*
12	GROUNDED POLE WIRE	WHITE
13	EQUIPMENT GROUNDING POLE WIRE	GREEN

* FOLLOW COLOR CODING SHOWN IN THE PLANS. WHERE THE PLANS DO NOT SHOW COLOR CODING, USE BLACK FOR SINGLE LUMINAIRE POLES; BLACK AND RED FOR TWIN LUMINAIRE POLES.



1 POLE (1P) 2 POLE (2P)

FUSE ASSEMBLIES

GENERAL NOTES

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

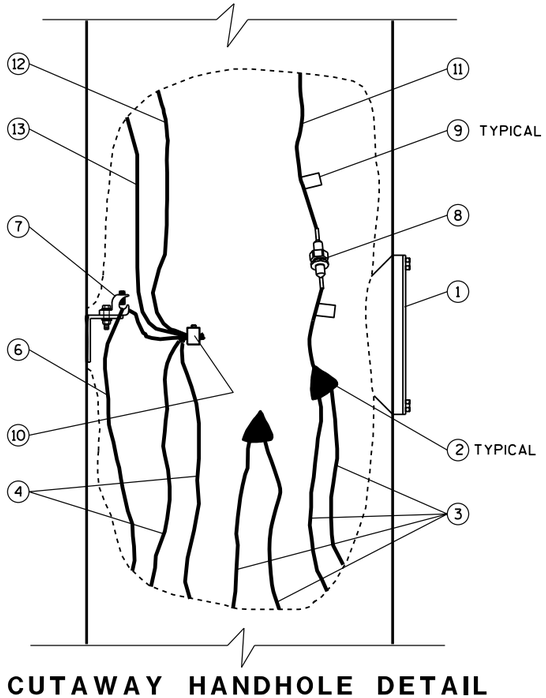
USE THIS DETAIL IN CONJUNCTION WITH THE ELECTRICAL DETAILS FOR THE APPLICATION, WHICH MAY BE A LIGHT POLE, SIGN BRIDGE, ETC.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING LUG TO THE CONNECTOR.

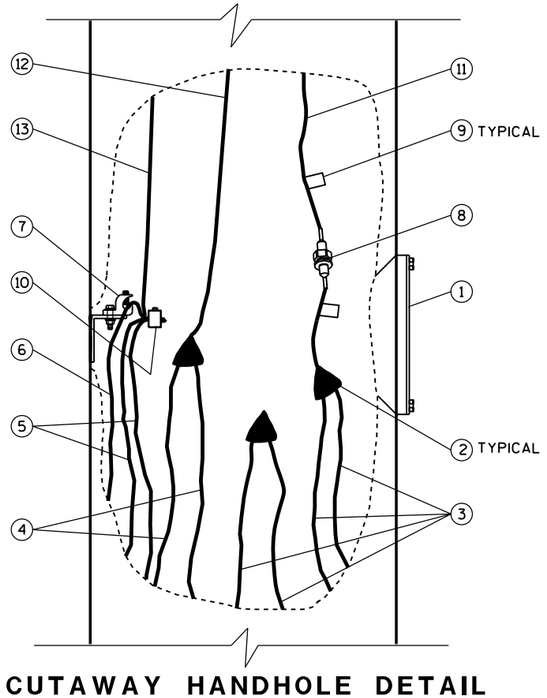
THREE POLE WIRES ARE SHOWN FOR A SINGLE LUMINAIRE LIGHT POLE. THREE ADDITIONAL POLE WIRES REQUIRED FOR TWIN LUMINAIRE LIGHT POLES ARE OMITTED FROM THE DRAWING FOR CLARITY. IN THE TWIN POLE CASE, BUNDLE EACH SET OF THREE WIRES WITH A NYLON CABLE TIE.

IN 3-PHASE SYSTEMS, THERE WILL BE ONE MORE UNGROUNDED LINE WIRE, WHICH IS OMITTED FROM THE DRAWING FOR CLARITY.

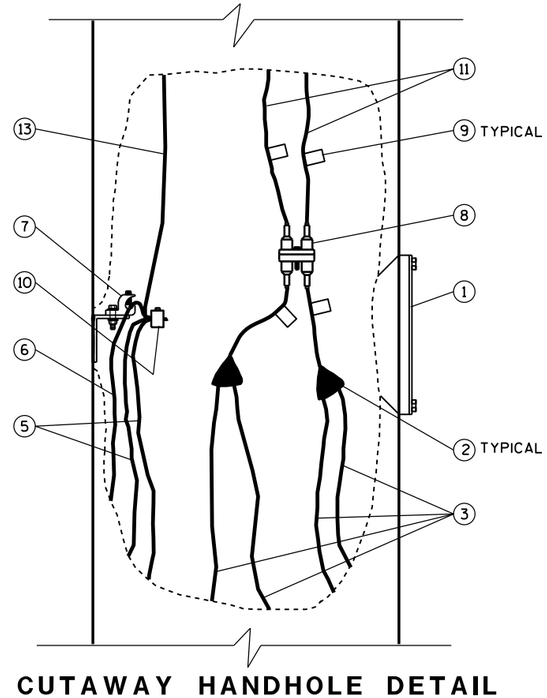
CIRCUIT TAGS SHALL BE INSTALLED ONLY WHERE REQUIRED IN THE SPECIAL PROVISIONS.



CUTAWAY HANDHOLE DETAIL
GROUNDED NEUTRAL SYSTEMS
1-Φ



CUTAWAY HANDHOLE DETAIL
ISOLATED NEUTRAL SYSTEMS
1-Φ SHOWN; 3-Φ WYE SIMILAR
(SEE GENERAL NOTE)



CUTAWAY HANDHOLE DETAIL
PHASE-TO-PHASE SYSTEMS
1-Φ SHOWN; 3-Φ DELTA SIMILAR
(SEE GENERAL NOTE)

NOTE: REQUIRED CONDUCTOR SLACK NOT SHOWN ON "CUTAWAY HAND HOLE" DETAILS FOR DRAWING CLARITY, SEE "TYPICAL CONDUCTOR SLACK AT HANDHOLES" ON THIS SHEET.

1. HANDHOLE AND COVER
2. INSULATED SPLICE
3. UNGROUNDED LINE WIRE
4. GROUNDED LINE WIRE
5. SYSTEM GROUNDING LINE WIRE
6. GROUNDING ELECTRODE CONDUCTOR
7. HANDHOLE GROUNDING LUG
8. FUSE ASSEMBLY, 1P OR 2P AS REQUIRED
9. CIRCUIT TAG (SEE GENERAL NOTE)
10. REVERSIBLE PRESSURE OR COMPRESSION GROUNDING CONNECTOR (NOT INSULATED)
11. UNGROUNDED POLE WIRE
12. GROUNDED POLE WIRE
13. EQUIPMENT GROUNDING POLE WIRE

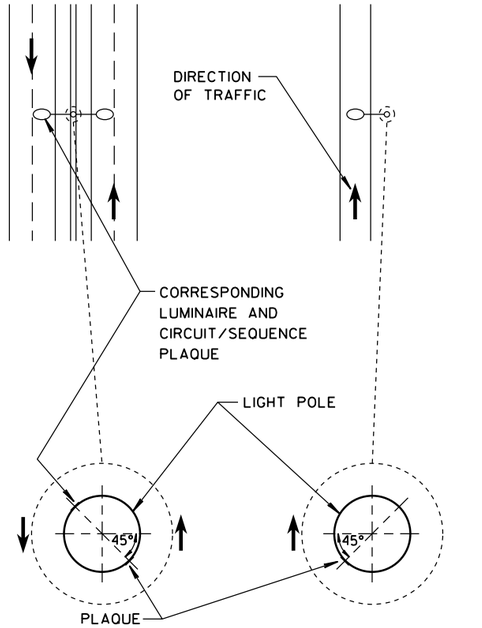
ELECTRICAL HANDHOLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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S.D.D. 10 A 1-3



MEDIAN POLE SINGLE ARM POLE

LOCATION OF LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

WHERE SHOWN IN THE PLANS, REPLACEMENT PLAQUES WILL BE MEASURED AND PAID SEPARATELY.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETRORFLECTIVE

LINES - BLACK, 1/2" WIDE, SELF-ADHESIVE

CHARACTERS - BLACK, SELF-ADHESIVE, SERIES "D", SIZE AS SHOWN

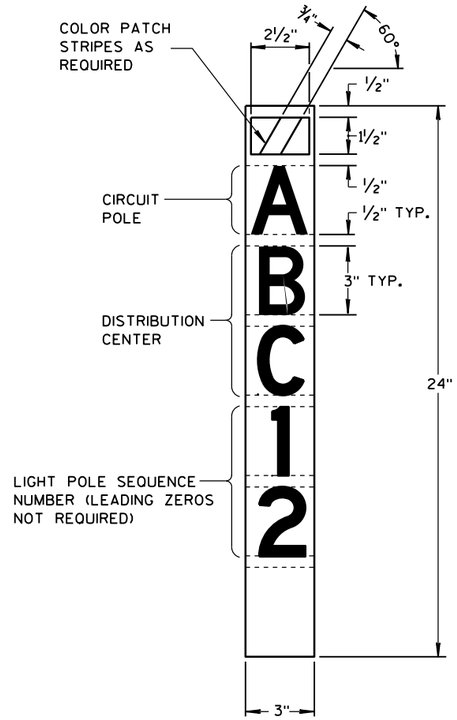
COLOR PATCHES - VARIOUS COLORS, SELF-ADHESIVE VINYL SHEETING

WITH THE APPROVAL OF THE ENGINEER, THE BASE MATERIAL MAY BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE SURFACE, IN CASES SUCH AS SMOOTH, CLEAN ALUMINUM POLES.

ALTERNATIVE COMPUTER-GENERATED SIGN LETTERING MAY BE ACCEPTED IF THE ENGINEER FINDS IT TO BE EQUIVALENT.

COLOR PATCH CODE FOR HPS AND LED LUMINAIRES

HPS	LED	COLOR PATCH CODE
1000 WATT		NO PATCH
400 WATT	CATEGORY D	ORANGE
310 WATT		BLUE
250 WATT	CATEGORY C	ORANGE WITH WHITE STRIPE
200 WATT		RED
150 WATT	CATEGORY B	GREEN
100 WATT	CATEGORY A	BROWN
70 WATT	CATEGORY UDL	BROWN WITH WHITE STRIPE



LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

IDENTIFICATION PLAQUES LIGHT POLES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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S.D.D. 10 A 2-3

GENERAL NOTES

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

USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING, SDD10A01.

USE TIME DELAY FUSE PER LUMINAIRE MANUFACTURER RECOMMENDATION.

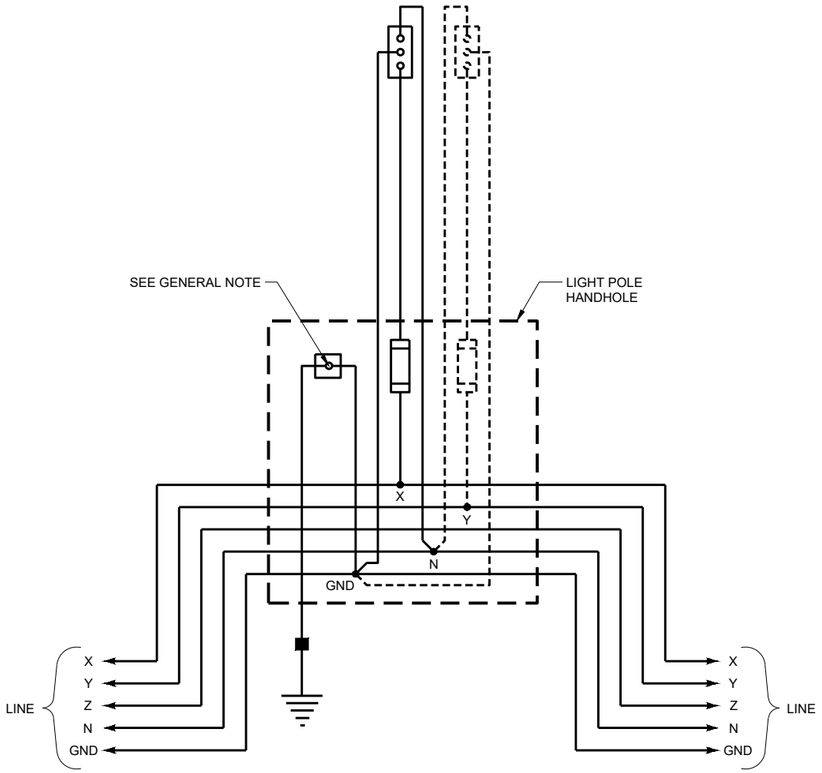
THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLD GROUNDING LUG TO THE CONNECTOR.

WIRING FOR SINGLE LUMINAIRE POLES IS SHOWN WITH SOLID LINES. WIRING FOR THE SECOND LUMINAIRE OF TWIN LUMINAIRE POLES IS SHOWN WITH DOTTED LINES.

THE PLANS WILL SHOW WHICH CIRCUIT LEG(S) ARE CONNECTED TO EACH INSTALLATION.

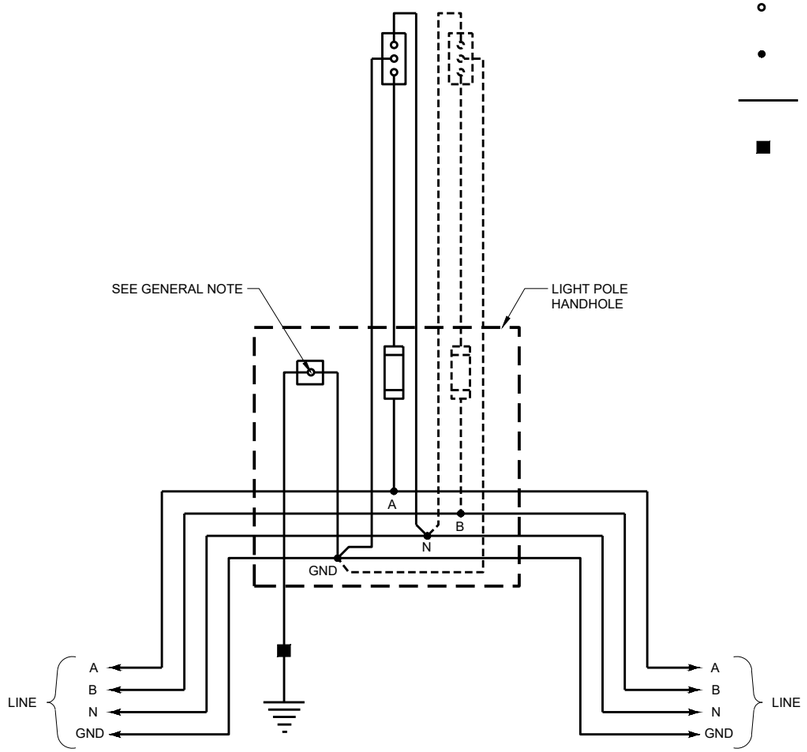
LEGEND

A,B,X,Y,Z	UNGROUNDED CIRCUIT CONDUCTORS
N	GROUNDED CIRCUIT CONDUCTORS
GND	EQUIPMENT GROUNDING CONDUCTOR
P	POLE (ELECTRICAL CIRCUIT)
ϕ	PHASE (ELECTRICAL CURRENT)
	HANDHOLE GROUND LUG
	SINGLE-POLE (1P) FUSE ASSEMBLY
	UNFUSED LUMINAIRE
	EQUIPMENT GROUNDING ELECTRODE
	TERMINAL
	SPLICE
	CONDUCTOR
	EXOTHERMIC WELD



TYPICAL WIRING DIAGRAM

ISOLATED NEUTRAL SYSTEM
3 - ϕ 208Y / 120VAC OR 480Y / 277VAC 4 WIRE



TYPICAL WIRING DIAGRAM

ISOLATED NEUTRAL SYSTEM
1 - ϕ 120 / 240VAC OR 240 / 480VAC 3 WIRE

ELECTRICAL DETAILS
GROUND MOUNT LIGHT POLES
ISOLATED NEUTRAL SYSTEM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 675

FHWA

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SDD 10A05 - 03

GENERAL NOTES

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

USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING, SDD10A01.

USE TIME DELAY FUSE PER LUMINAIRE MANUFACTURER RECOMMENDATION.

THE GROUNDING ELECTROCDE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLD GROUNDING LUG TO THE CONNECTOR.

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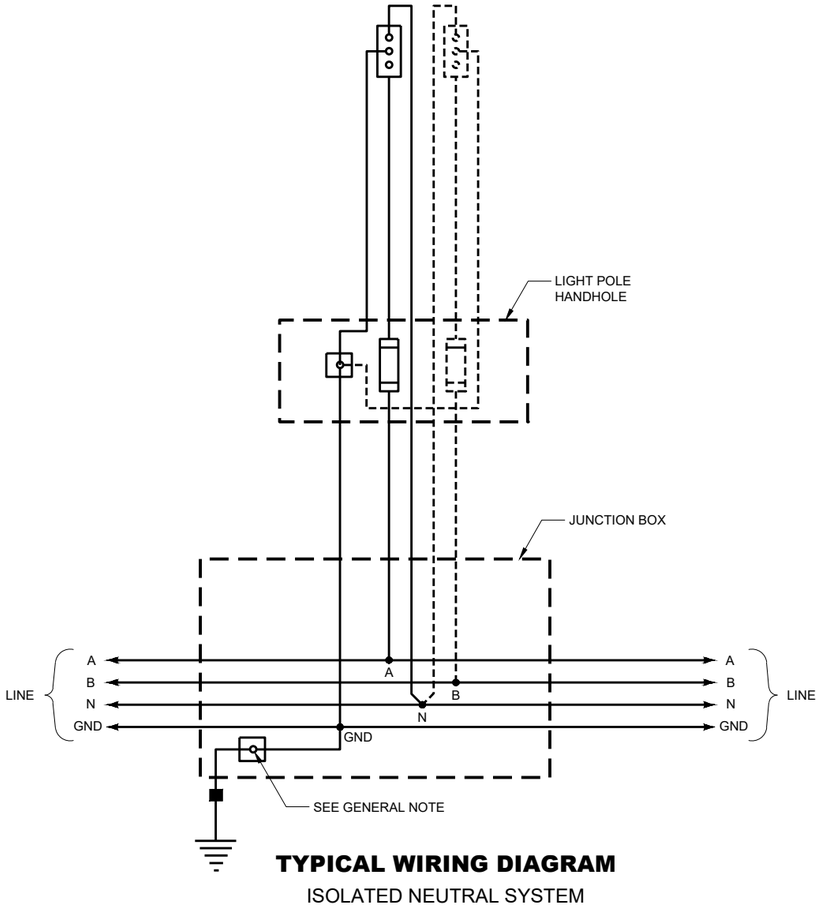
THE PLANS WILL SHOW WHICH CIRCUIT LEG(S) ARE CONNECTED TO EACH INSTALLATION.

WIRE SIZE FROM THE JUNCTION BOX TO THE POLE HANDHOLE SHALL EQUAL THE SIZE OF THE POLE WIRE.

THE INTENT OF JUNCTION BOX SPLICES AS SHOWN IN THIS DETAIL IS FOR LIGHTING SYSTEMS WITH HEAVY LINE WIRE TOO LARGE TO PULL THROUGH THE CONDUIT INTO THE POLE HANDHOLE, DUE TO CONDUIT FILL REQUIREMENTS OF N.E.C. AND / OR THE STIFFNESS OF THE WIRE COMPARED TO THE NUMBER OF BENDS IN THE CONDUIT. IN CASES WHERE LINE WIRE IS LIGHTER, SUCH AS SMALL ER SYSTEMS OR TOWARD THE FURTHEST END OF A LARGER SYSTEM PULL THE LINE WIRE INTO THE POLE HANDHOLE FOR SPLICING.

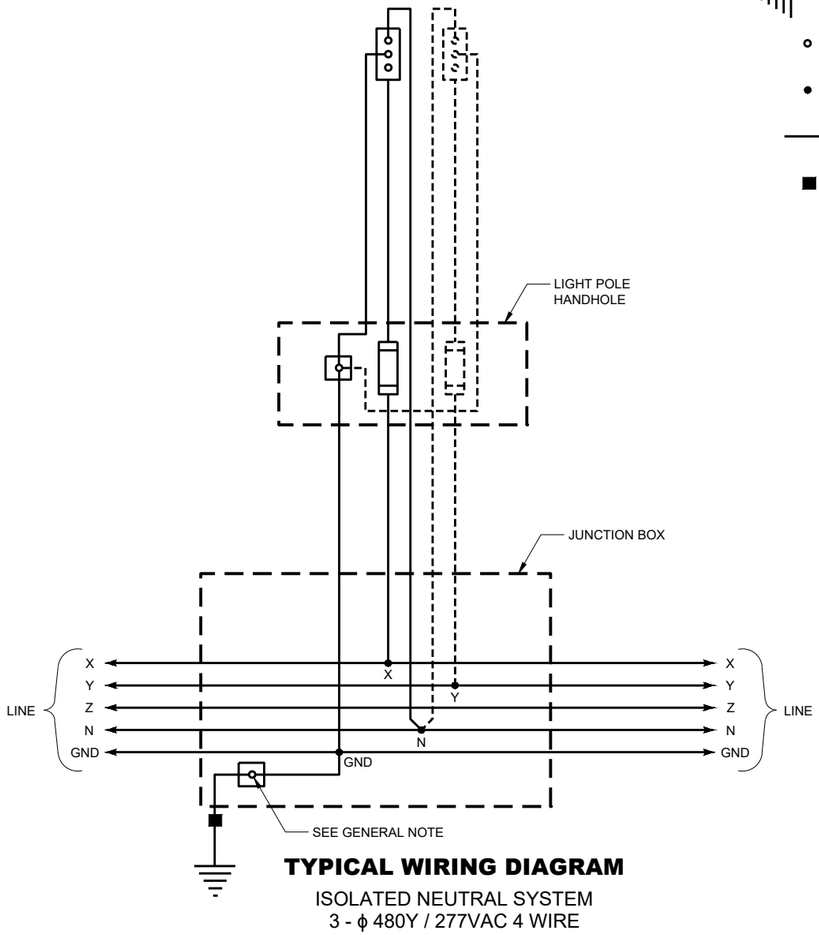
LEGEND

A,B,X,Y,Z	UNGROUNDED CIRCUIT CONDUCTORS
N	GROUNDED CIRCUIT CONDUCTORS
GND	EQUIPMENT GROUNDING CONDUCTOR
P	POLE (ELECTRICAL CIRCUIT)
ϕ	PHASE (ELECTRICAL CURRENT)
	HANDHOLE GROUND LUG
	SINGLE-POLE (1P) FUSE ASSEMBLY
	UNFUSED LUMINAIRE
	EQUIPMENT GROUNDING ELECTRODE
	TERMINAL
	SPLICE
	CONDUCTOR
	EXOTHERMIC WELD



TYPICAL WIRING DIAGRAM

ISOLATED NEUTRAL SYSTEM
1 - ϕ 240 / 480VAC 3 WIRE



TYPICAL WIRING DIAGRAM

ISOLATED NEUTRAL SYSTEM
3 - ϕ 480Y / 277VAC 4 WIRE

ELECTRICAL DETAILS
MEDIAN MOUNT LIGHT POLES
ISOLATED NEUTRAL SYSTEMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 676

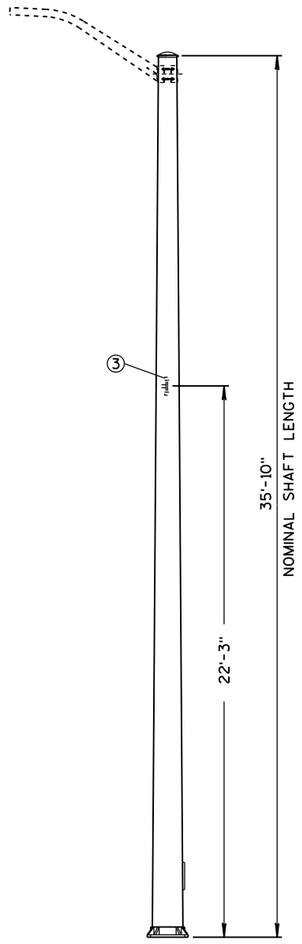
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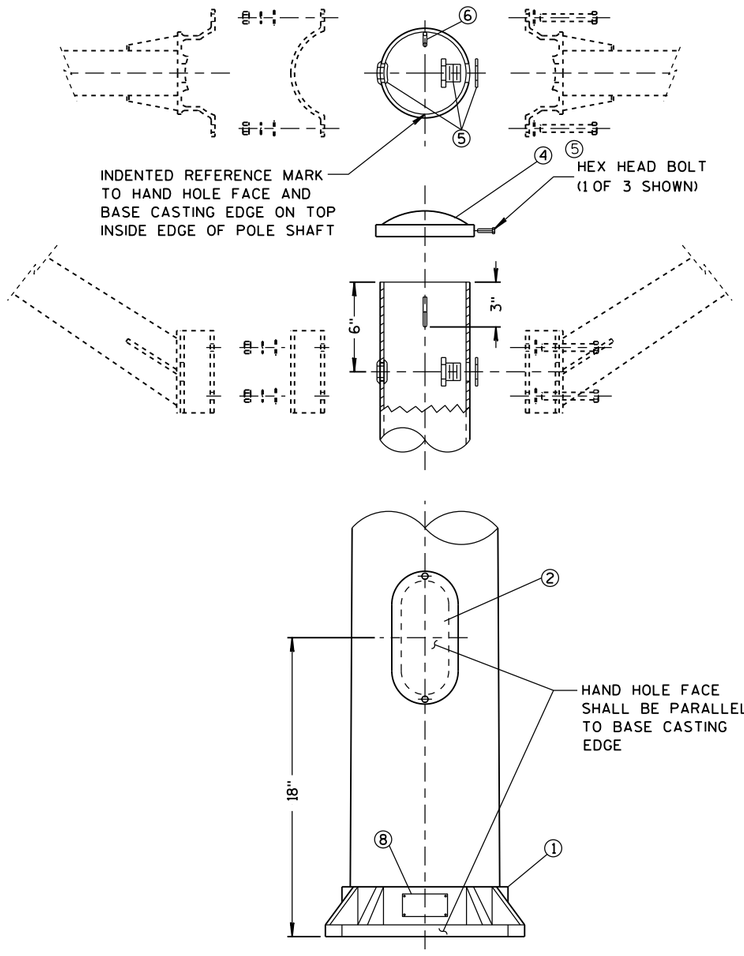
SDD 10A11 - 03

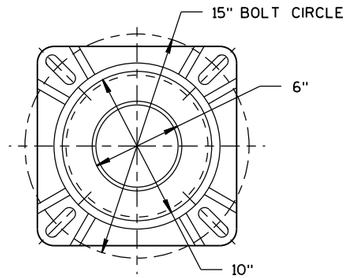
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SDD 10A11 - 03

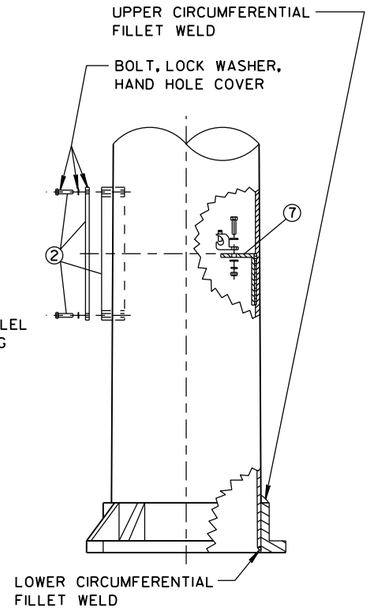


POLE, TYPE 7





(TOP VIEW)



GENERAL NOTES

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

SLOTTED ANCHOR ROD HOLES FOR 1"-8 UNC ANCHOR RODS (4 EACH, 15" BOLT CIRCLE), SHALL BE PROVIDED IN BASE CASTING.

POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM.
EXCEPT THAT BASE CASTINGS SHALL BE CONSTRUCTED OF 356-T6 ALUMINUM.
THE SHAFT SHALL BE ROUND AND UNIFORMLY TAPERED FROM A 10" O.D. BUTT TO A 6" O.D. TOP.

HEAT TREATMENT OF WELDMENTS IN STRUCTURAL AREAS (e.g. BASE CASTING, HAND HOLE, BRACKET FOR GROUNDING LUG) REQUIRED.

ALL THREADED FASTENER COMPONENTS SHALL BE STAINLESS STEEL. NUTS SHALL BE HEX NUTS. BOLTS SHALL BE HEX HEAD. ALL THREADED SURFACES SHALL BE COATED WITH ANTI-SEIZE COMPOUND PRIOR TO INSTALLATION.

LUMINAIRE ARMS AND CLAMP ASSEMBLIES SHOWN FOR INFORMATION ONLY (PAID SEPARATELY).

LUMINAIRE LOADING FOR DESIGN CALCULATION SHALL BE 50 LBS. IN WEIGHT AND 1.5 SQ. FT. FOR E.P.A.

① SHOE BASE.

② 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY SECURED BY TWO (2) 1/4" X 3/4" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

HANDHOLE SHALL BE 90 DEGREES FROM LUMINAIRE ARMS OF TWIN LUMINAIRE POLES; 180 DEGREES FROM LUMINAIRE ARM OF SINGLE LUMINAIRE POLES; 0 DEGREES FROM LUMINAIRE ARM FOR STRUCTURE MOUNTED POLES.

③ INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

④ FURNISH AND INSTALL CAST OR METALLIC (ALUMINUM ALLOY) POLE CAP. FASTEN CAP WITH THREE 1/4" X 3/4" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

⑤ 1 3/8" FIELD DRILLED HOLE WITH 1" CHASE NIPPLE AND NUT (OR NEOPRENE GROMMET), PER EACH REQUIRED LUMINAIRE ARM.

⑥ FACTORY-WELDED "J" HOOK FOR POLE WIRE STRAIN RELIEF.

⑦ FACTORY-WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HANDHOLE. (LUG AND HARDWARE PAID UNDER SEPARATE ITEMS; SHOWN FOR INFORMATION ONLY). PROVIDE HOLE IN BRACKET FOR 1/4" X 3/4" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

⑧ MANUFACTURER'S PLATE SHOWING WisDOT POLE TYPE, MANUFACTURER, AND DATE.

POLE TYPE (NOM. SHAFT LENGTH)	TYPICAL APPLICATION	ARM & LUMINAIRE LOADS (MAX.)	ADDITIONAL (MAX.) LOADS
TYPE 7 (35'-10")	ARTERIALS	TWIN ARMS UP TO 10 FT. (SINGLE MEMBER)	UP TO 20 SQ. FT. ON TRAFFIC SIGNS, MOUNTED AS HIGH AS 15 FT. TO TOP OF SIGN, PLUS 1-3 SECTION, 1-5 SECTION, AND 2-PED. TRAFFIC HEAD
	FREEWAY	SINGLE ARM, UP TO 20 FT. TRUSS TYPE	UP TO 20 SQ. FT. OF TRAFFIC SIGNS, MOUNTED AS HIGH AS 15 FT. TO TOP OF SIGN

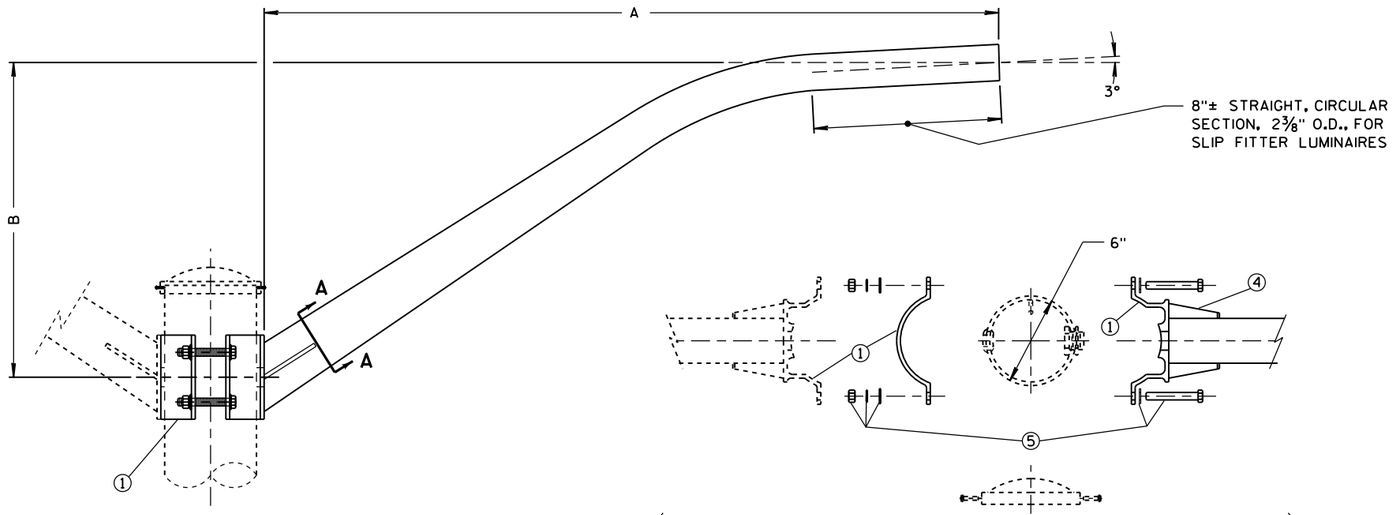
POLES, TYPE 7
ALUMINUM - 35'-10" SHAFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

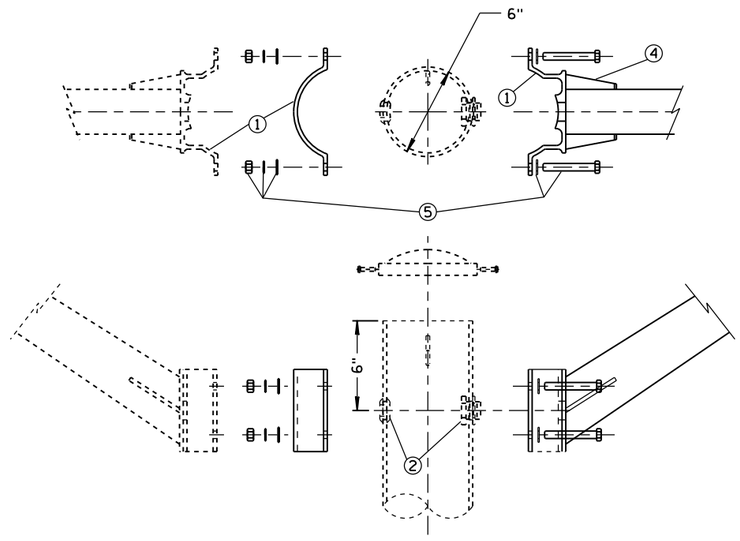
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S.D.D. 10 A 17-4a



LUMINAIRE ARMS, SINGLE MEMBER, 6-INCH CLAMP - FOR POLES, TYPE 7, A OR E

VARIOUS LENGTHS (SEE TABLE)



CLAMP ASSEMBLY

SINGLE MEMBER CLAMP SHOWN

TYPE	DIM. A NOMINAL ARM LENGTH (FT)	DIM. B APPROX. RISE (FT)
SINGLE MEMBER	4.0	2.0
SINGLE MEMBER	8.0	3.0
SINGLE MEMBER	10.0	3.0
SINGLE MEMBER	15.0	3.0

GENERAL NOTES

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

ARMS AND CLAMP EXTRUSIONS SHALL BE CONSTRUCTED OF NATURAL FINISH 6063-T6 ALUMINUM.

HEAT TREATMENT OF WELDS IN STRUCTURAL AREAS IS REQUIRED.

ALL THREADED FASTENER COMPONENTS SHALL BE STAINLESS STEEL. NUTS SHALL BE HEX NUTS. BOLTS SHALL BE HEX HEAD. ALL THREADED SURFACES SHALL BE COATED WITH ANTI-SEIZE COMPOUND PRIOR TO INSTALLATION.

LUMINAIRE LOADING FOR DESIGN CALCULATION SHALL BE 50 LBS. IN WEIGHT AND 1.5 SQ. FT. FOR E.P.A..

① CLAMPS SHALL BE EXTRUDED ALUMINUM.

② RACE WAY: 1 3/8" FIELD DRILLED HOLE WITH 1" CHASE NIPPLE AND NUT (OR NEOPRENE GROMMET) PER EACH REQUIRED LUMINAIRE ARM. PROVIDE 1 1/2" HOLE IN CLAMP EXTRUSION TO CONTINUE RACEWAY.

③ STIFFENER

④ GUSSETS REQUIRED.

⑤ CLAMP BOLT ASSEMBLY (BOLT - 1/2"-13 UNC, 2 EACH - FLAT WASHER, LOCK WASHER, NUT) - 4 EACH PER CLAMP.

6

6

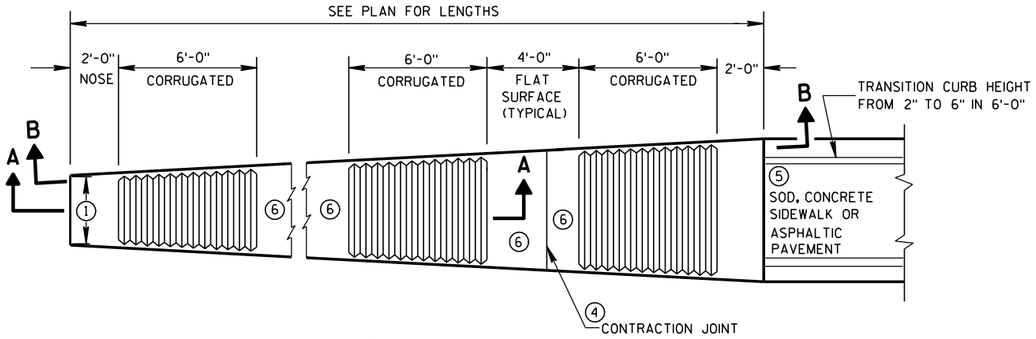
S.D.D. 10 A 18-5a

S.D.D. 10 A 18-5a

LUMINAIRE ARMS, SINGLE MEMBER 6-INCH CLAMP

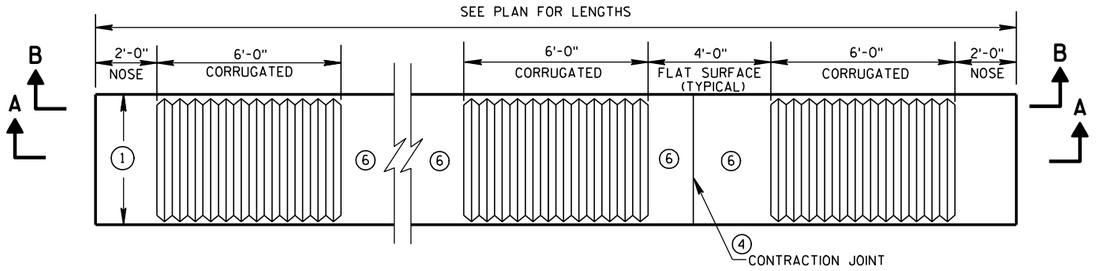
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA



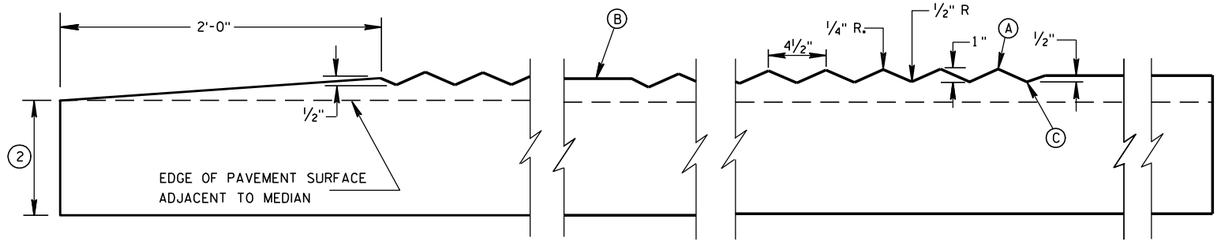
PLAN VIEW

VARIABLE WIDTH CONCRETE CORRUGATED MEDIAN



PLAN VIEW

UNIFORM WIDTH CONCRETE CORRUGATED MEDIAN



SECTION A-A

LONGITUDINAL SECTION

GENERAL NOTES

(1) SEE PLANS FOR CONSTANT OR VARIABLE WIDTH.

(2) THE DEPTH OF THE CONCRETE CORRUGATED MEDIAN SHALL BE 9-INCHES UNLESS SHOWN OTHERWISE IN THE PLAN.

ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN IN THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

(2) ASPHALTIC CONCRETE OVER NEW OR EXISTING CONCRETE BASE COURSE, OR PAVEMENT.

(3) ASPHALTIC PAVEMENT OVER BASE AGGREGATE DENSE.

(3) 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.

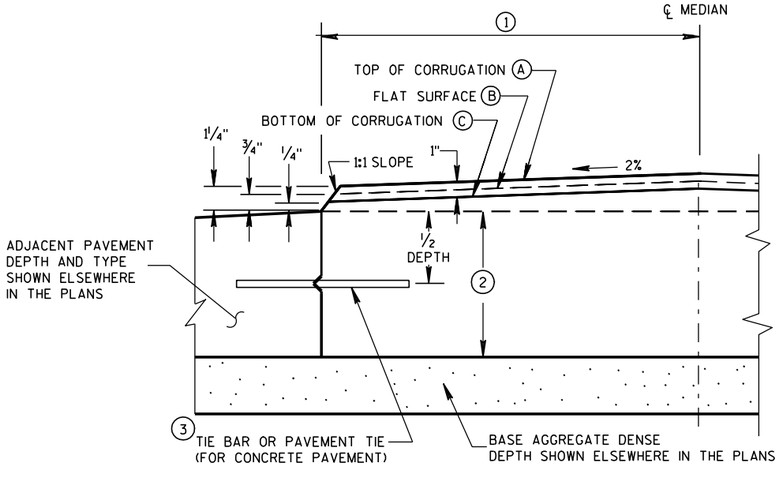
INSTALL TIE BARS TO MAINTAIN A MINIMUM OF 3-INCHES OF COVER BETWEEN THE TIE BAR AND THE CONCRETE SURFACE (BOTTOM AND TOP).

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE PAVEMENT OR 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.

(4) CONCRETE CORRUGATED MEDIAN CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH THE JOINTS IN ADJACENT CONCRETE PAVEMENT. WHERE ADJACENT PAVEMENT IS ASPHALT WITH BASE AGGREGATE DENSE. TRANSVERSE CONTRACTION JOINTS SHALL BE PROVIDED AT 20 FOOT INTERVALS.

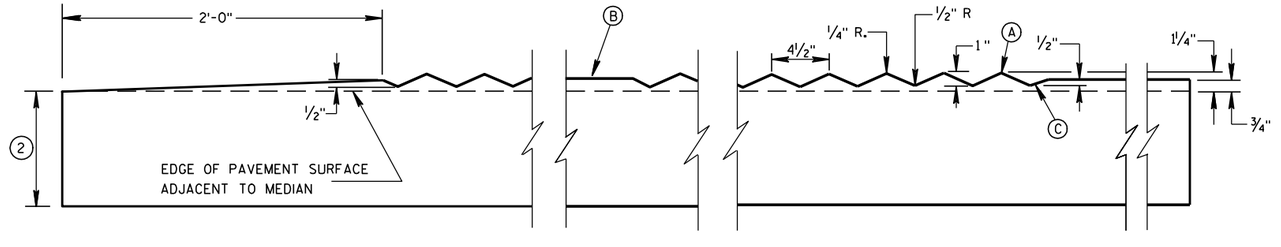
(5) SURFACE TYPE AND DETAILS ARE DEFINED ELSEWHERE IN THE PLAN.

(6) YELLOW MARKING ON FLAT SURFACE WHEN MEDIAN SEPARATES OPPOSING TRAFFIC.



HALF CROSS SECTION

(2) CONCRETE CORRUGATED MEDIAN AND ADJACENT PAVEMENT



SECTION B-B

LONGITUDINAL SECTION

CONCRETE CORRUGATED MEDIAN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/07
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

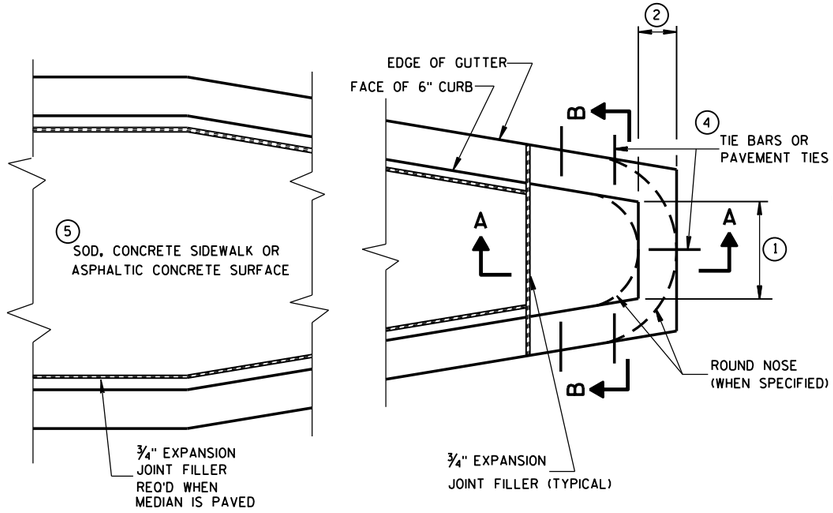
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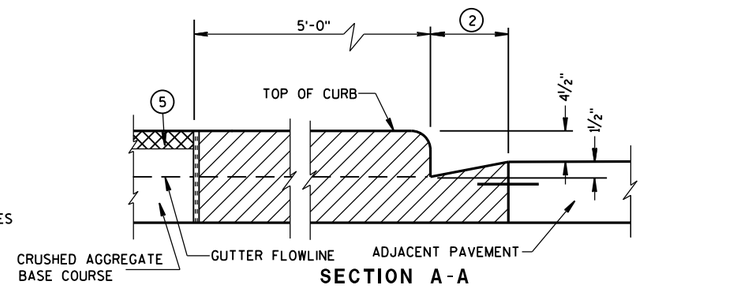
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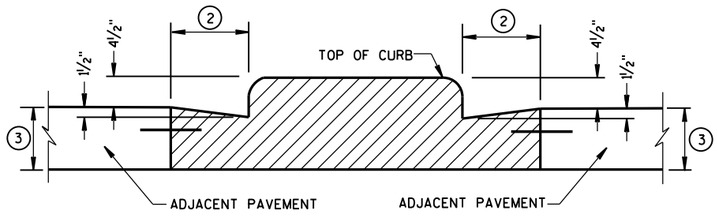
S.D.D. 11 B 1-5

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S.D.D. 11 B 1-5







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.

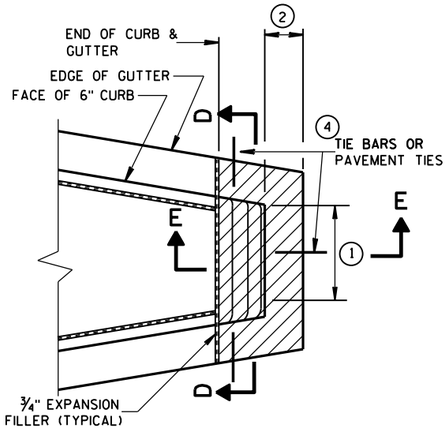
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

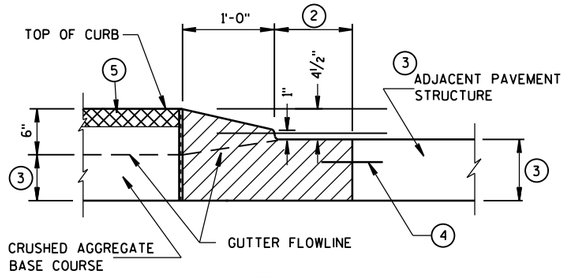
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(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.

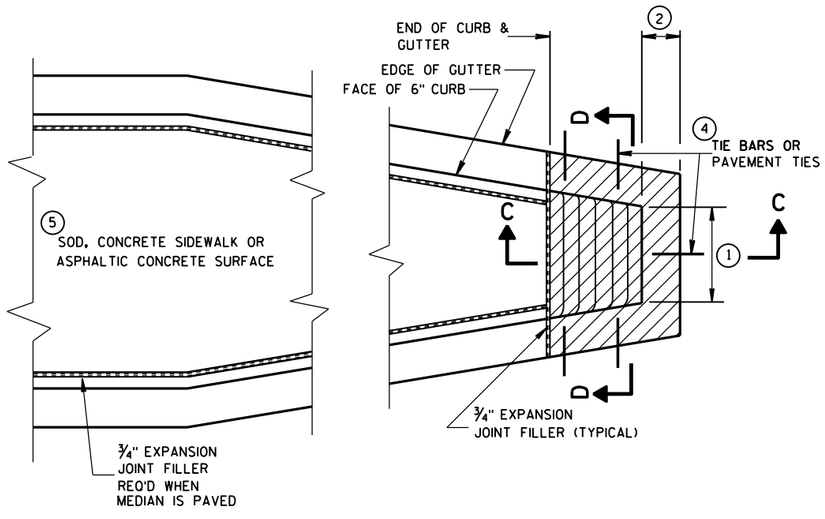
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

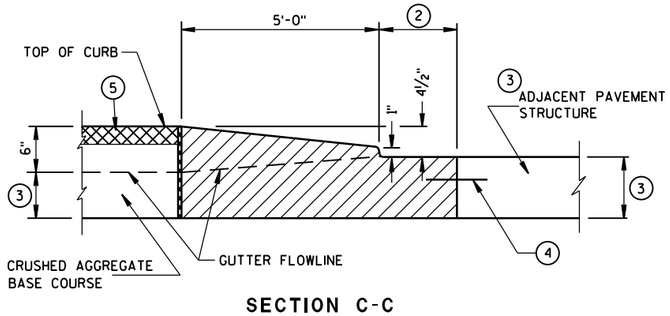
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



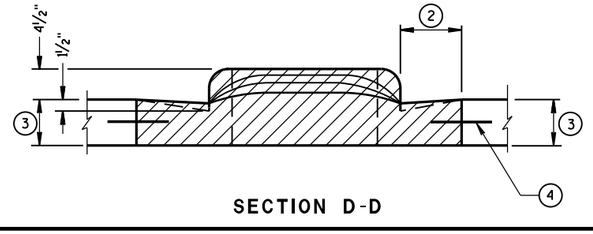


CONCRETE MEDIAN SLOPED NOSE TYPE 2





CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

680

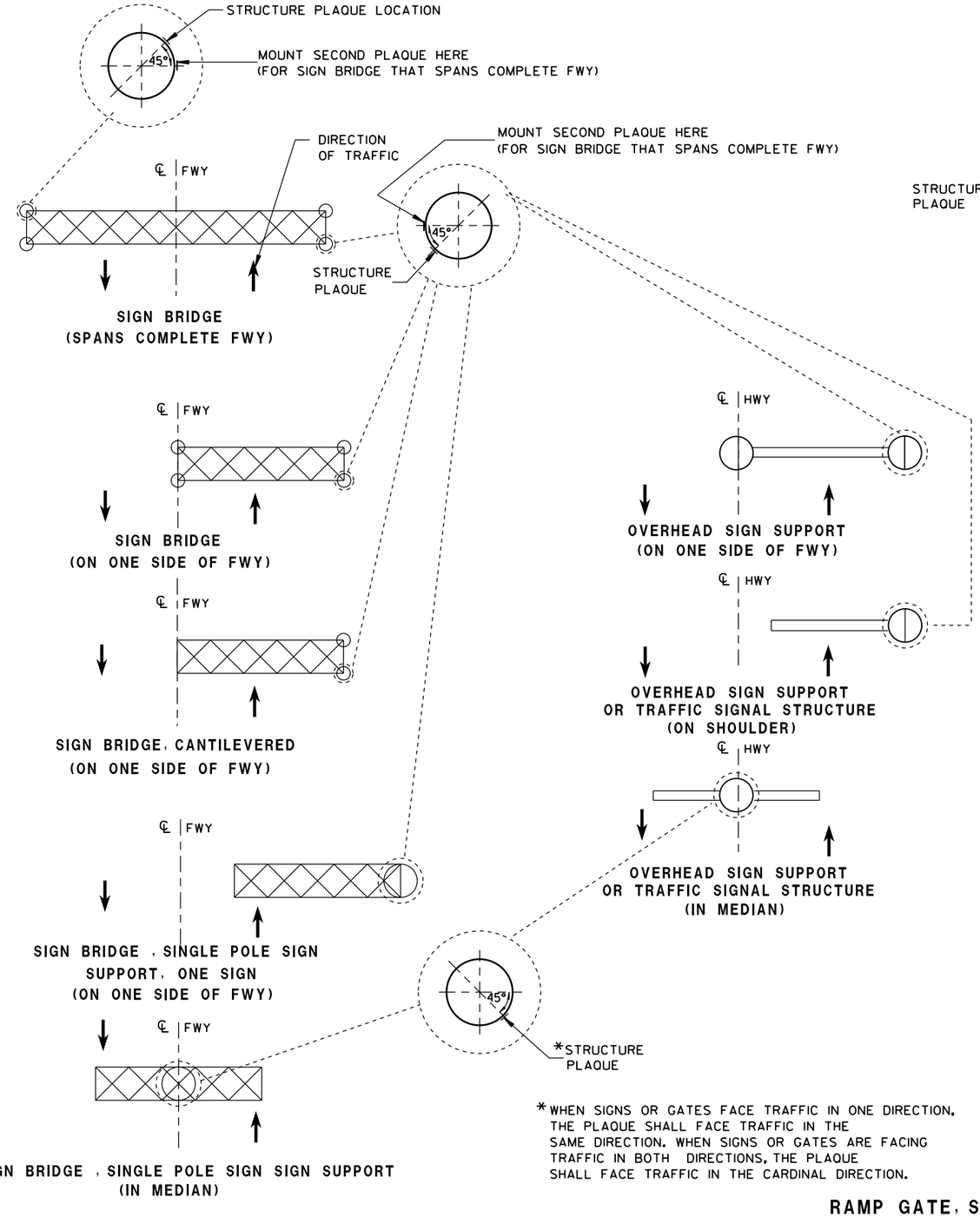
FHWA

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S.D.D. 11 B 2-2

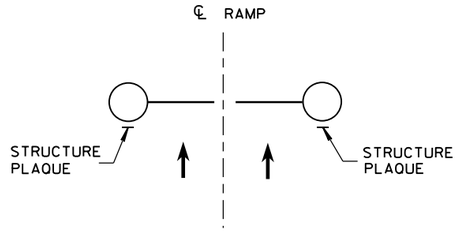
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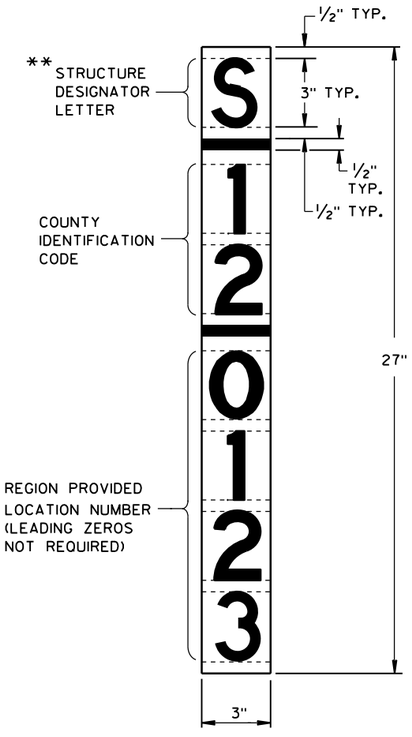


*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.

LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES



**RAMP GATE
(ACROSS FWY ON-RAMP)**



RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

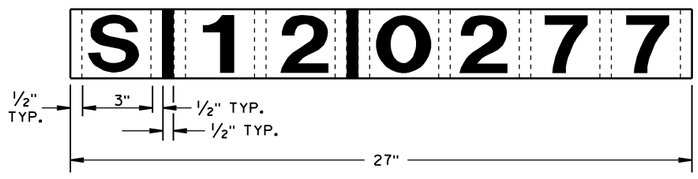
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
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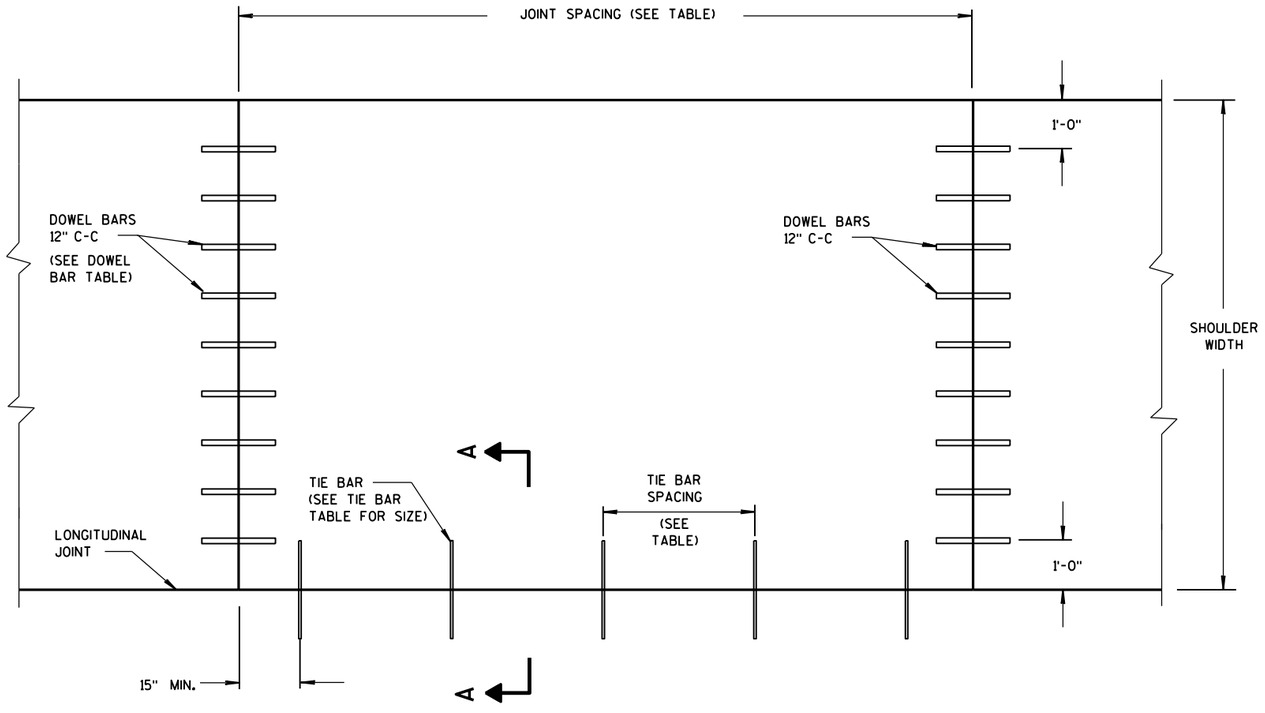
APPROVED
12/4/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 12 A 4-3

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S.D.D. 12 A 4-3



PLAN VIEW

CONCRETE PAVEMENT SHOULDER

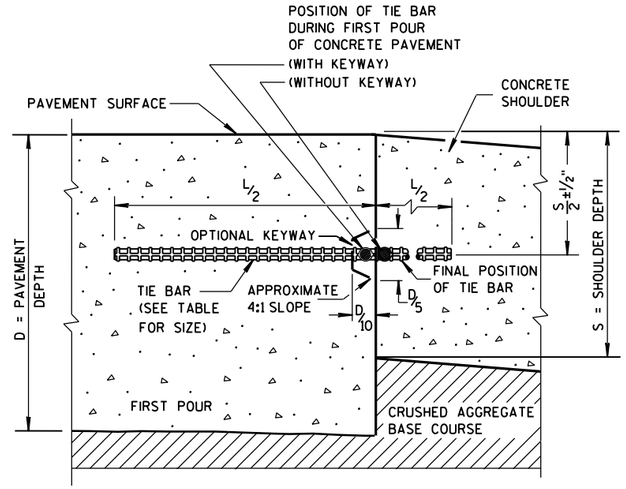
GENERAL NOTES

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.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT

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" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER***	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

*** FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

CONCRETE PAVEMENT SHOULDERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

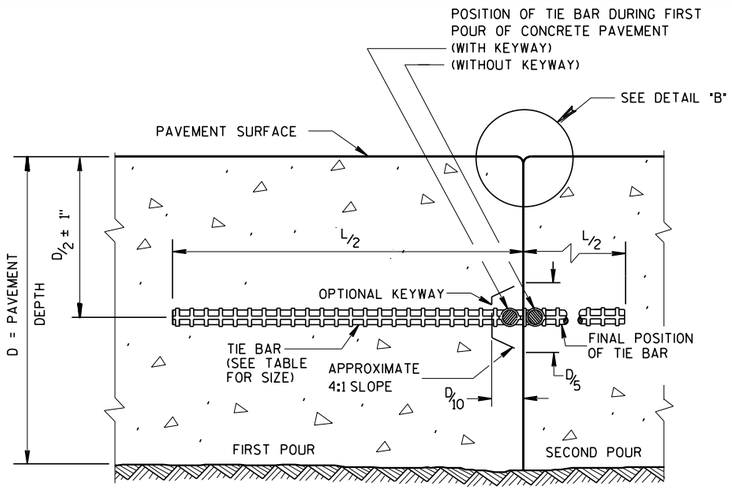
APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPERINTENDENT
FHWA

6

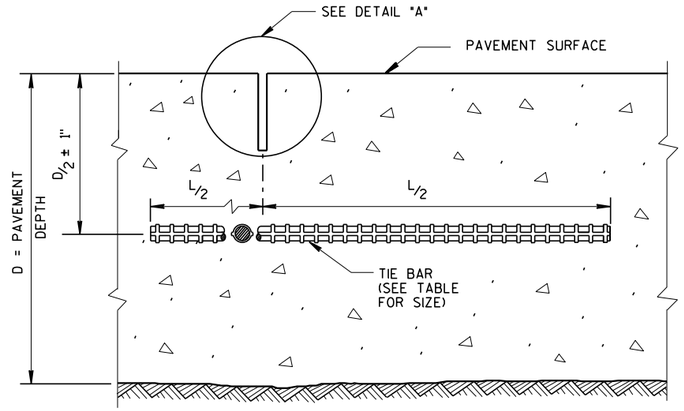
S.D.D. 13 A 3-6

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S.D.D. 13 A 3-6



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.

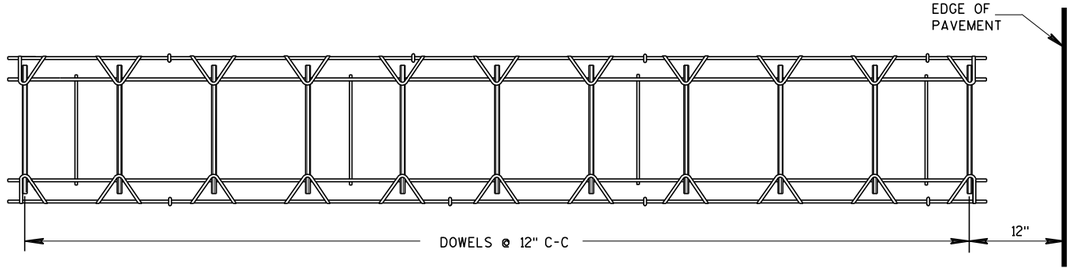
PLAN VIEW
SHOWING LOCATION OF TIE BARS

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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S.D.D. 13 C 1-19

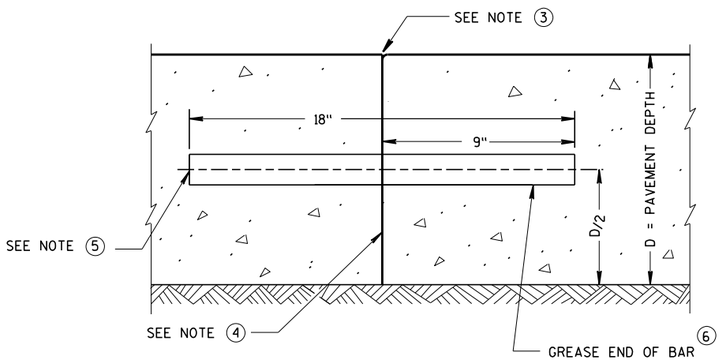


PLAN VIEW

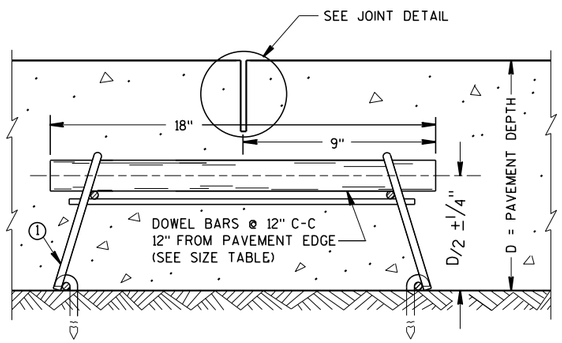


SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



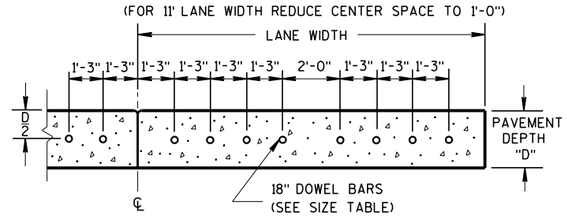
TRANSVERSE CONSTRUCTION JOINT



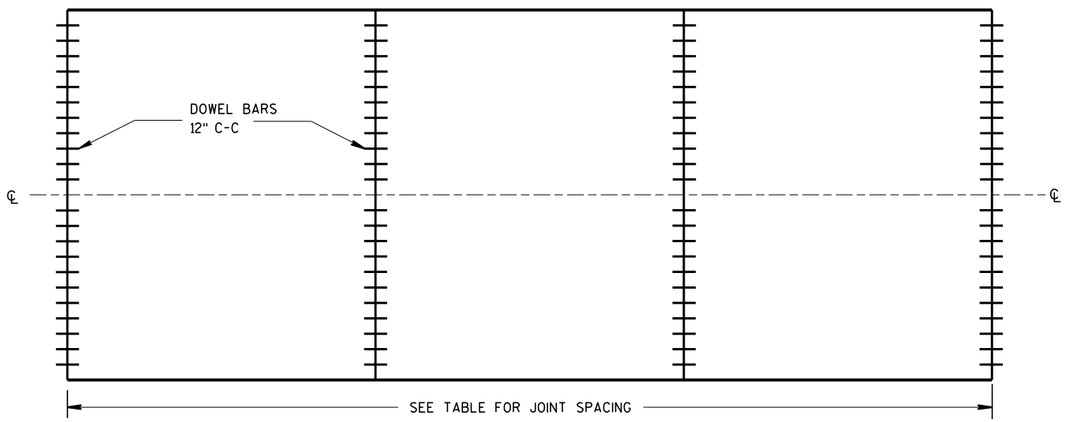
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

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 AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO 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 CONSTRUCTING 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.

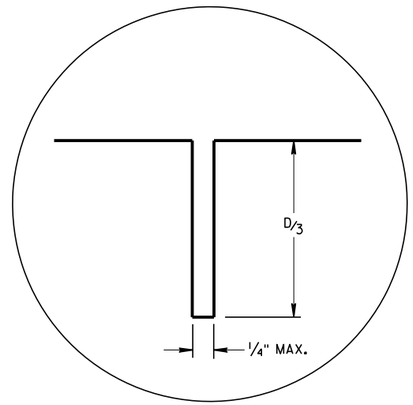
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

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 *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 INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUP

FHWA

GENERAL NOTES

PCCP = PORTLAND CEMENT CONCRETE PAVEMENT.

SHLDR = SHOULDER.

CONTINUE SAW CUT CONTRACTION JOINT ACROSS TURN LANE, EXIT TAPER AND PASSING LANE.

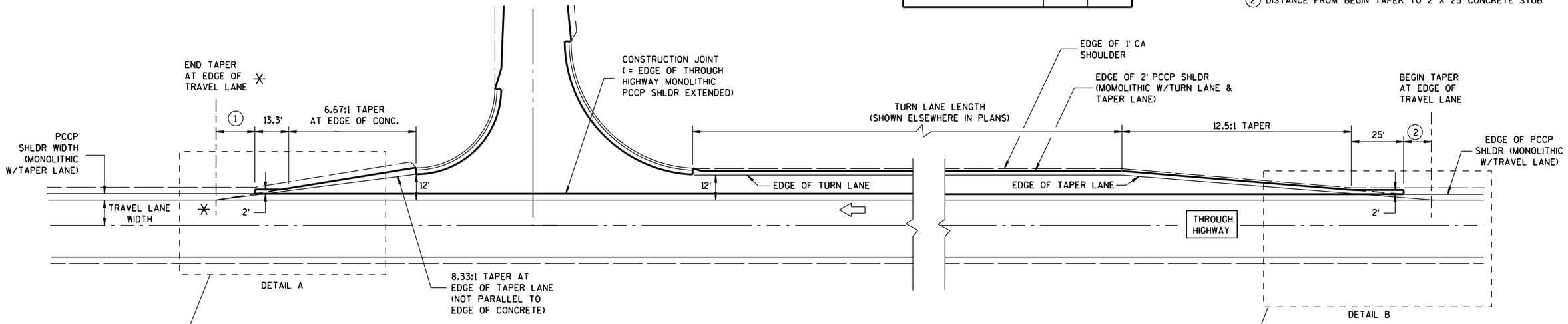
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

THROUGH HIGHWAY LANE WIDTH AND PCCP SHOULDER WIDTH ARE SHOWN ELSEWHERE IN PLANS

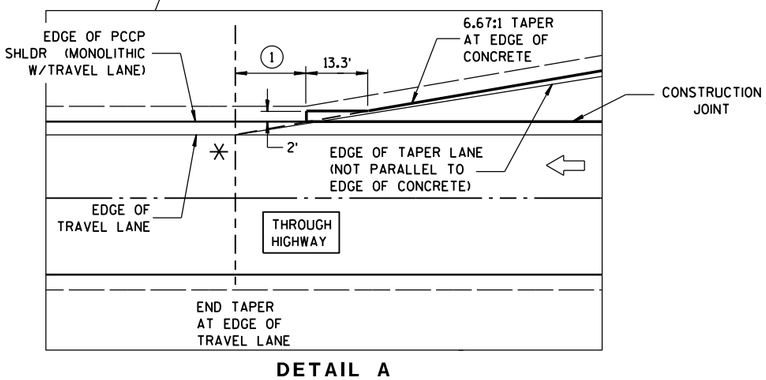
(1) DISTANCE FROM END TAPER TO 2' X 13.3' CONCRETE STUB

(2) DISTANCE FROM BEGIN TAPER TO 2' X 25' CONCRETE STUB

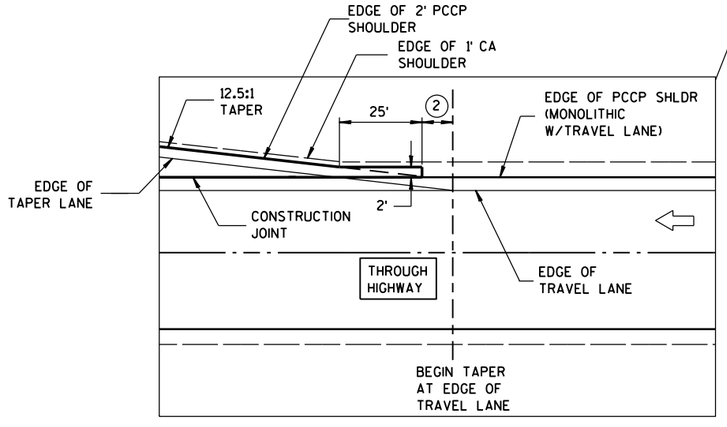
THROUGH HIGHWAY MONOLITHIC PCCP SHOULDER WIDTH (FEET)	DISTANCE (FEET) (1)	DISTANCE (FEET) (2)
2	13.3	0.0
3	20.0	12.5
TAPER RATE : 1	6.67	12.5



NOTE: EDGE OF CONCRETE TAPER (EXTENDED) & EDGE OF TAPER LANE CONVERGE



DETAIL A



DETAIL B

RIGHT TURN LANE AND EXIT TAPER

DETAIL FOR RIGHT TURN LANE/ TEE INTERSECTION BYPASS LANE ON A CONCRETE ROADWAY

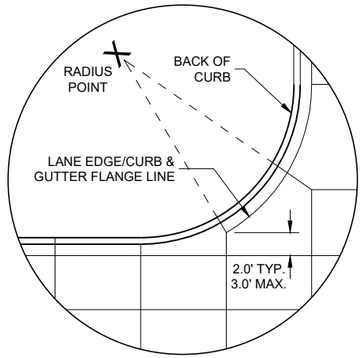
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

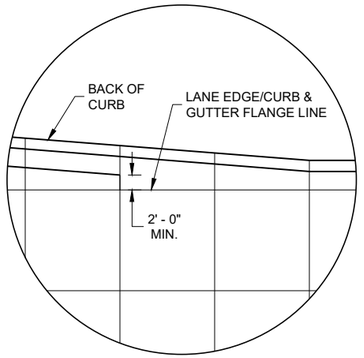
S.D.D. 13 C 16-2a

6

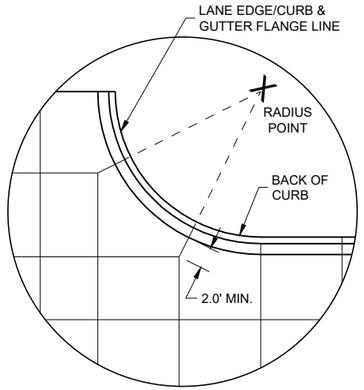
S.D.D. 13 C 16-2a



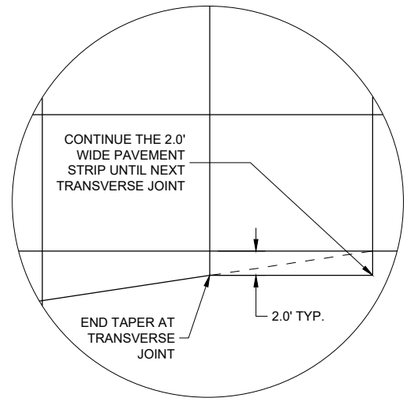
DETAIL "A"



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.

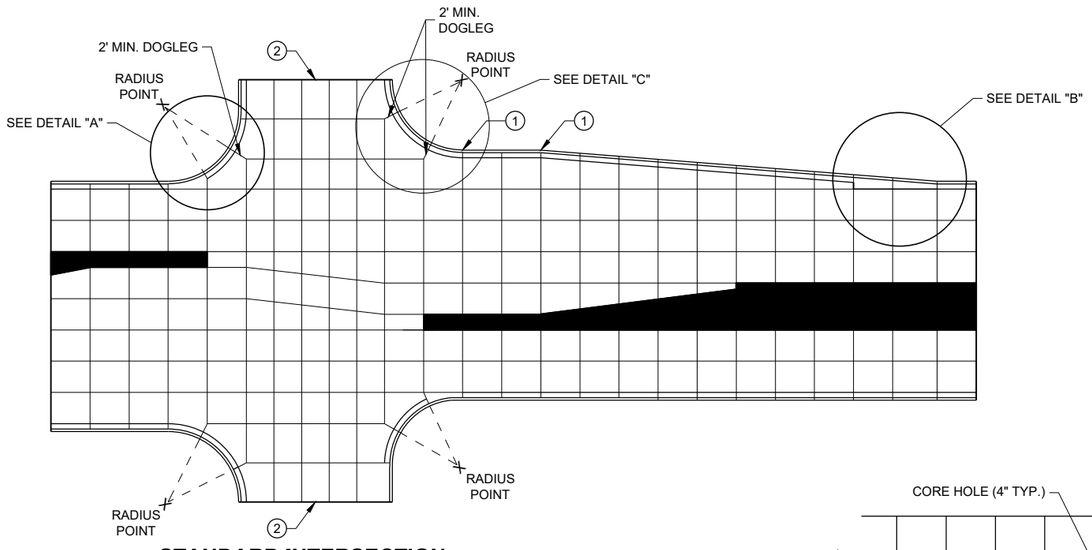
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

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 WITHEDGE OF RADIUS.

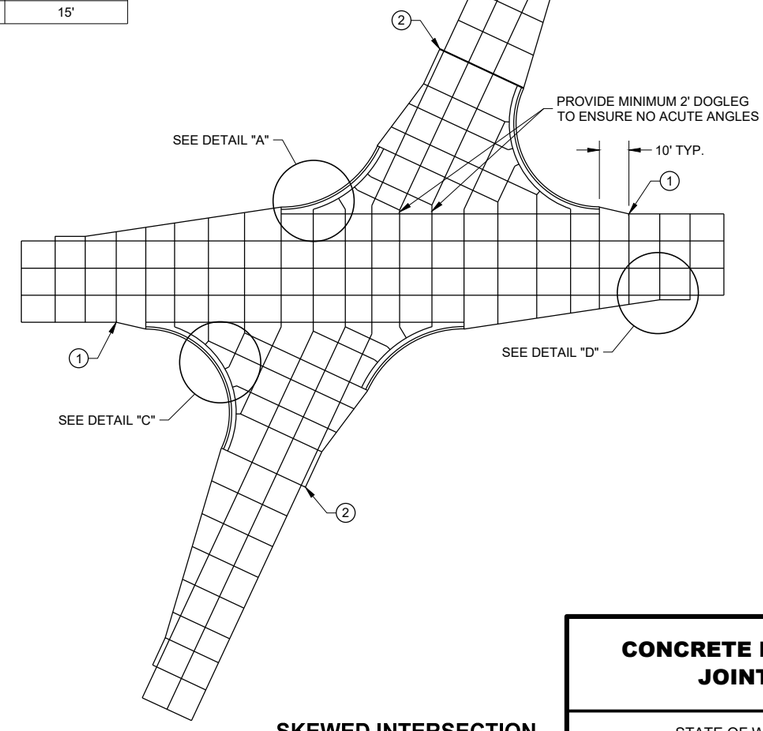
(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



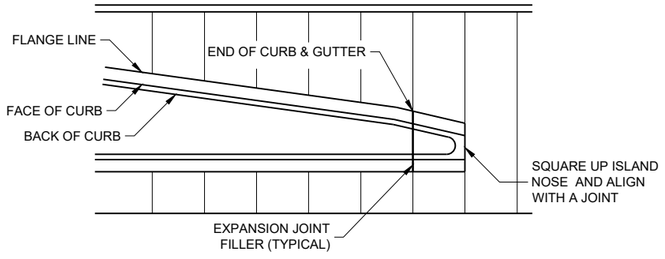
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

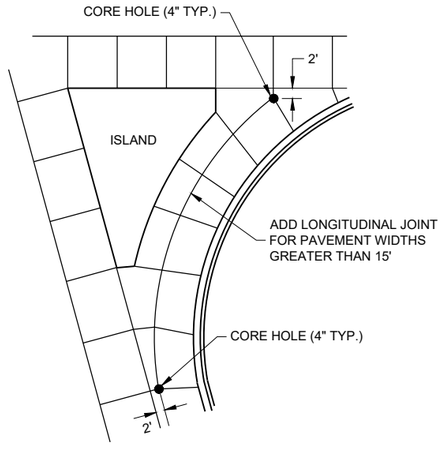
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07a

6

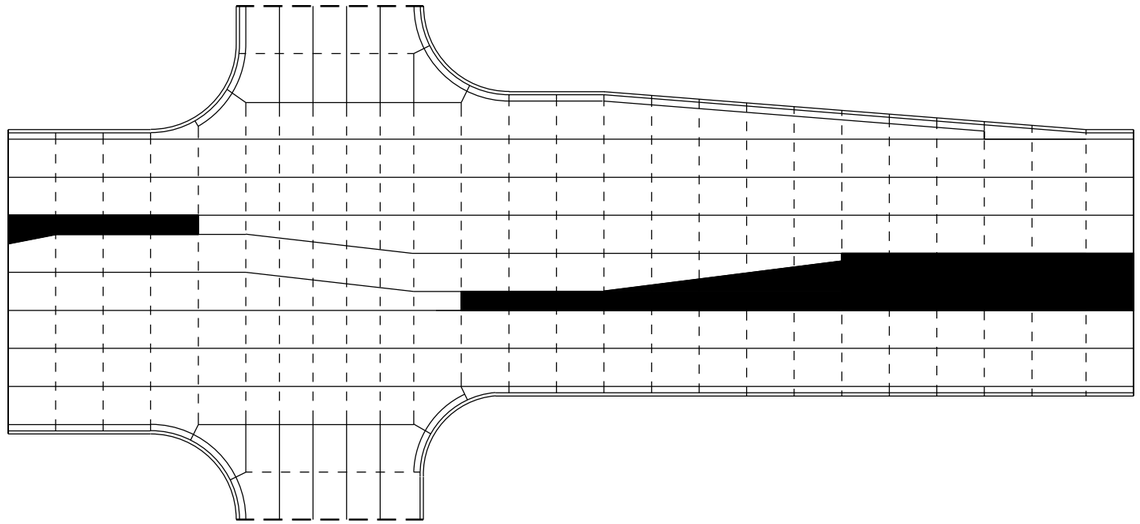
SDD 13C18 - 07a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

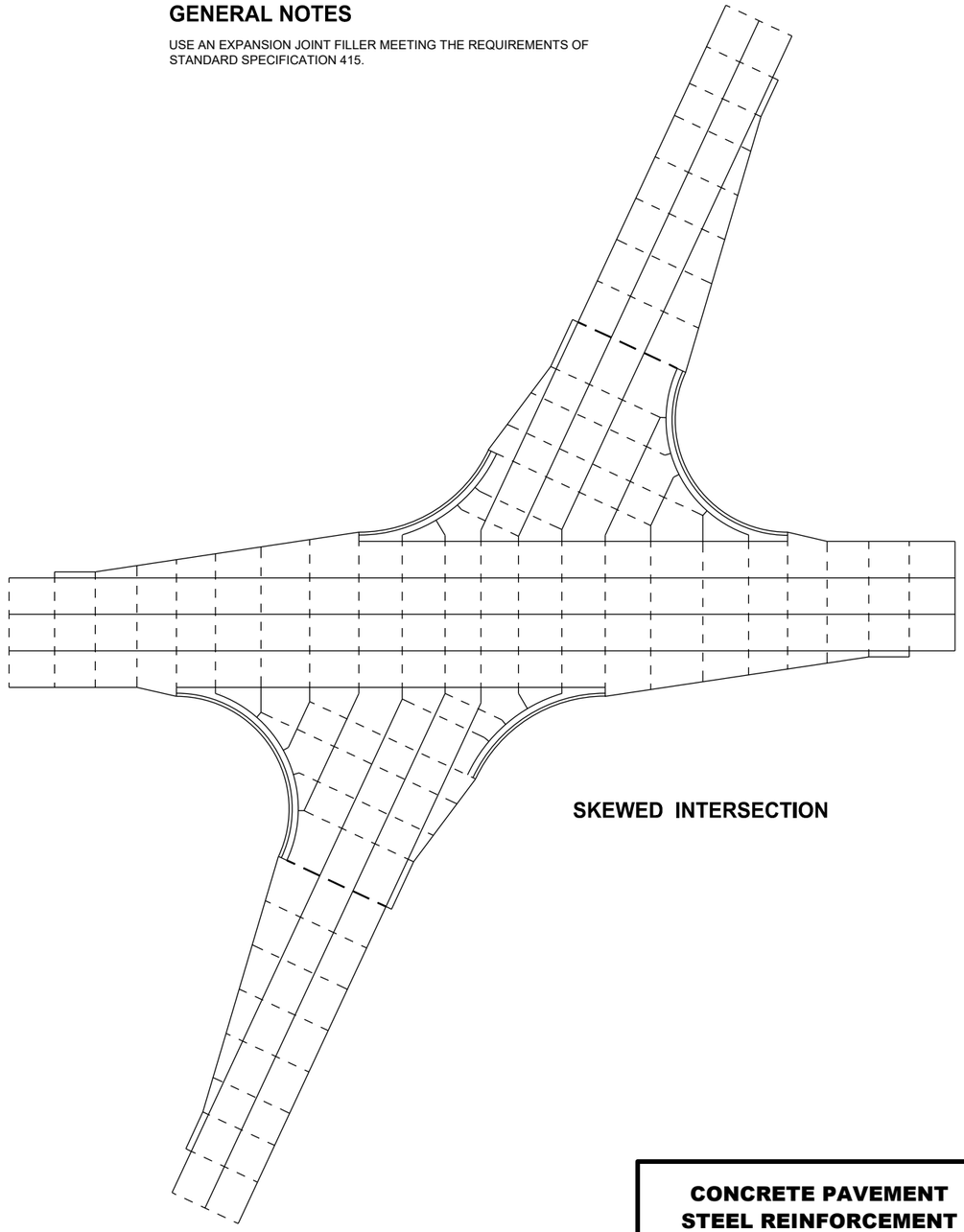
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

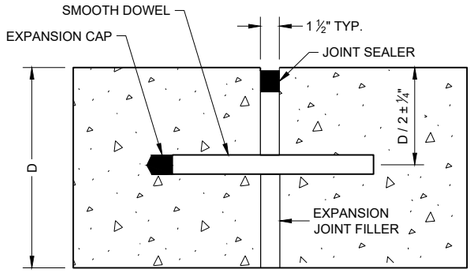
SDD 13C18 - 07b

CONCRETE PAVEMENT STEEL REINFORCEMENT

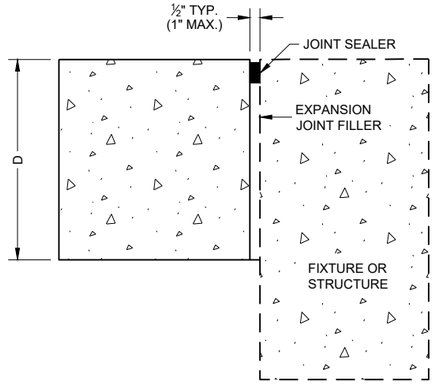
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

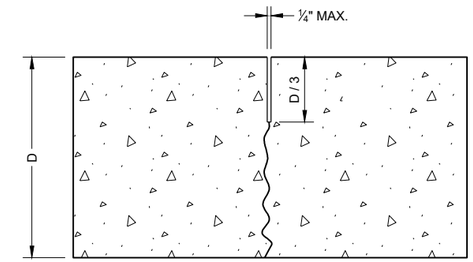
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4*	30"	24"**

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

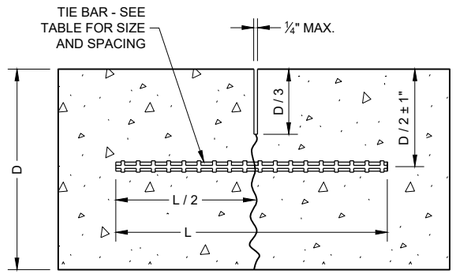
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

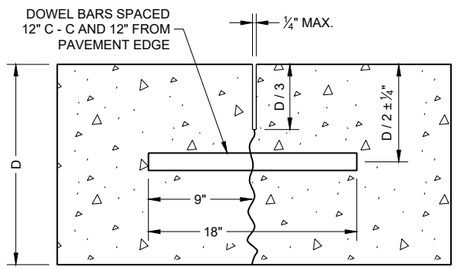
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM 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

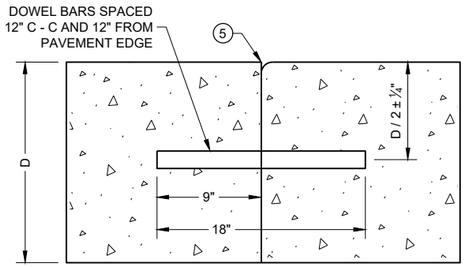


TIED LONGITUDINAL

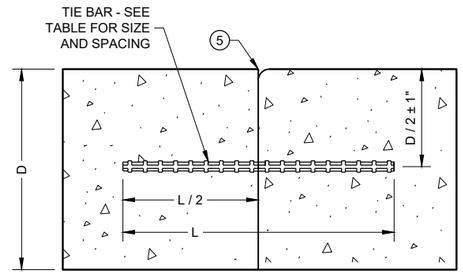


DOWELED TRANSVERSE

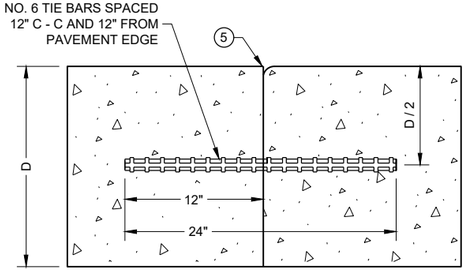
CONTRACTION JOINTS (2)



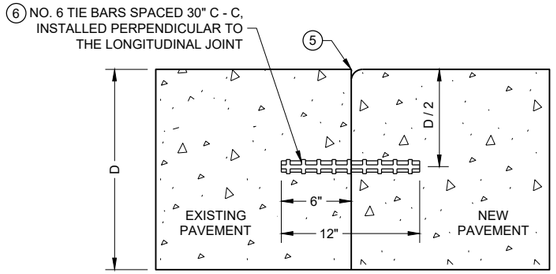
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



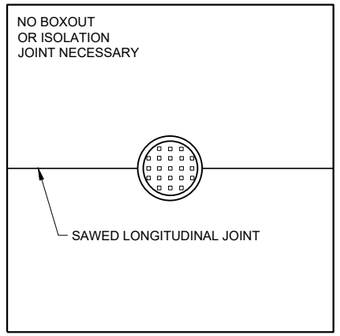
TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS (4)

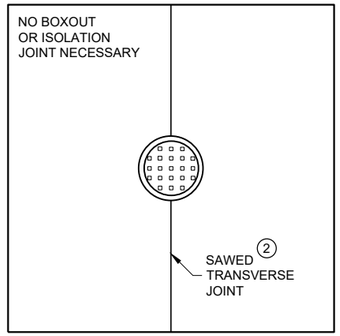
CONCRETE PAVEMENT JOINT TYPES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

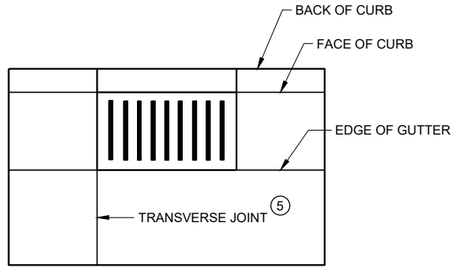
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SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



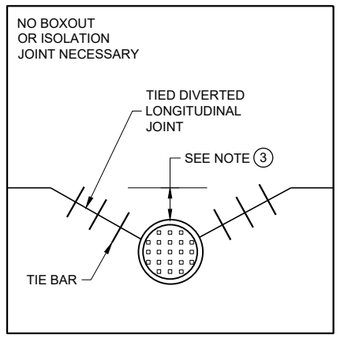
MANHOLE WITH TRANSVERSE JOINT



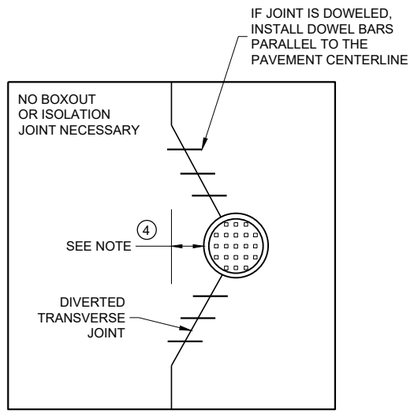
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

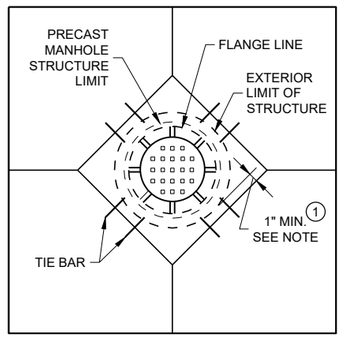
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF 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
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISOR

FHWA

689

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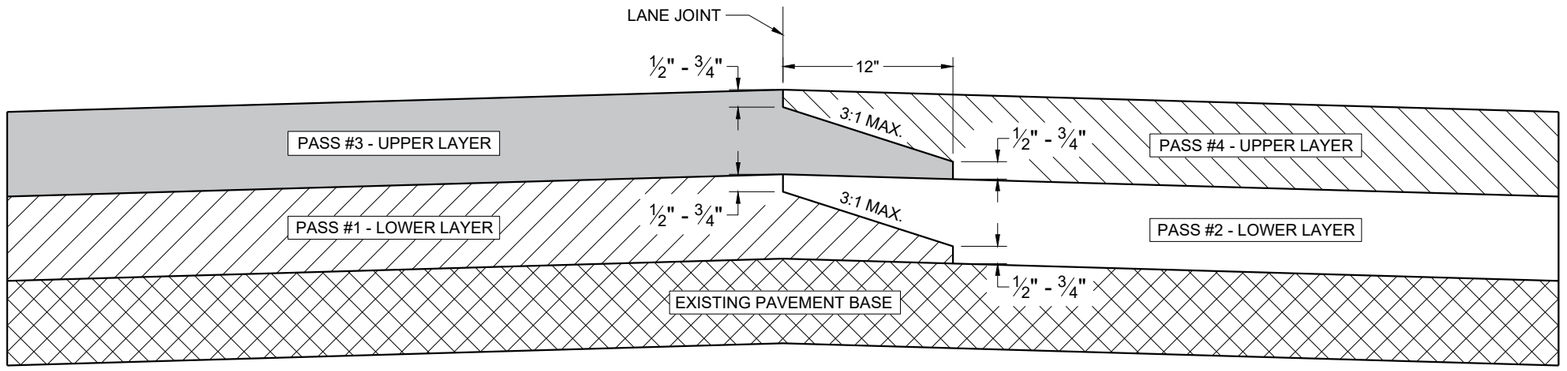
SDD13C18 - 07d

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SDD13C18 - 07d

GENERAL NOTES

CONFORM TO STANDARD SPECIFICATION 450.3.2.8



TYPICAL PAVEMENT CROSS SECTION
OF NOTCHED WEDGE LONGITUDINAL JOINTS

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SDD 13C19 - 01

SDD 13C19 - 01

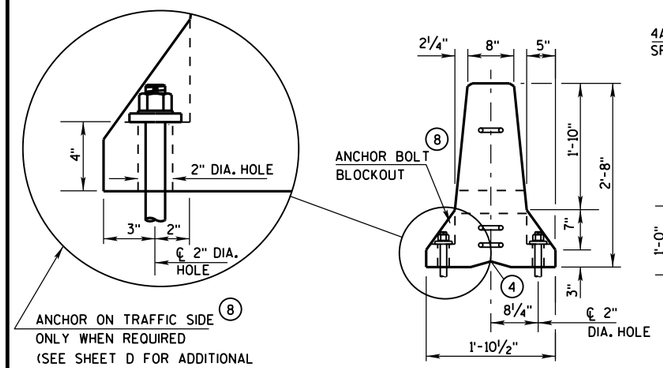
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

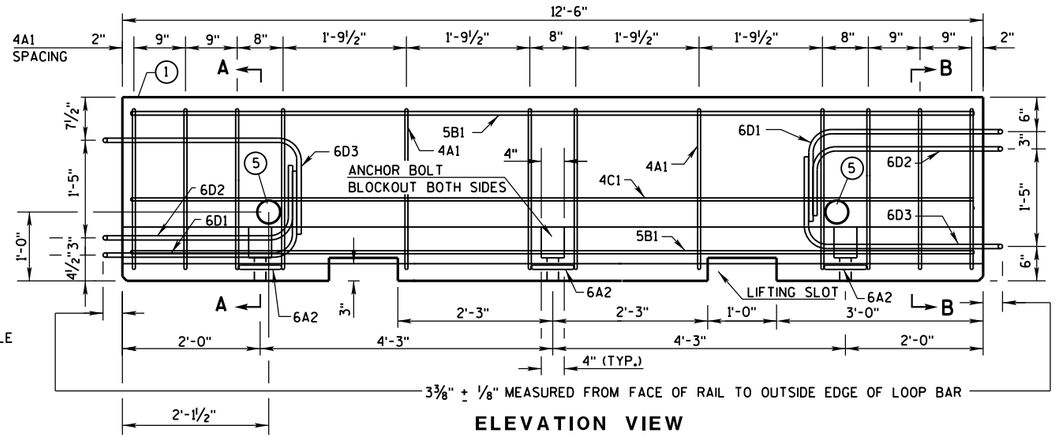
APPROVED
May 2019
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN 690

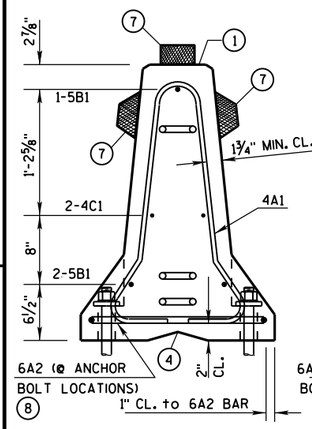
FHWA



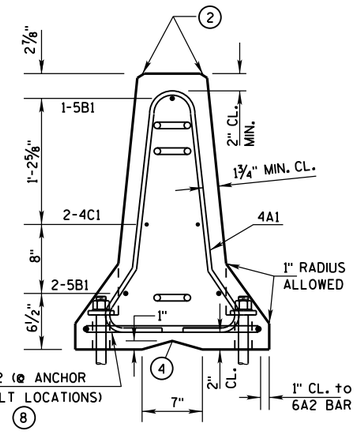
END VIEW



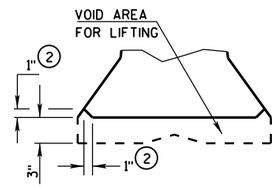
ELEVATION VIEW



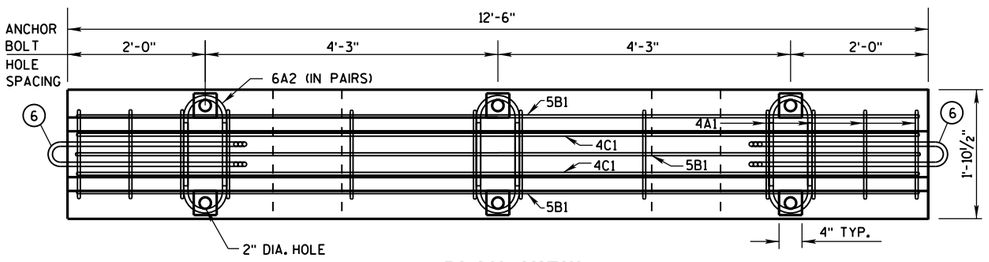
SECTION A-A
(STIRRUP PLACEMENT)



SECTION B-B
(STIRRUP PLACEMENT)

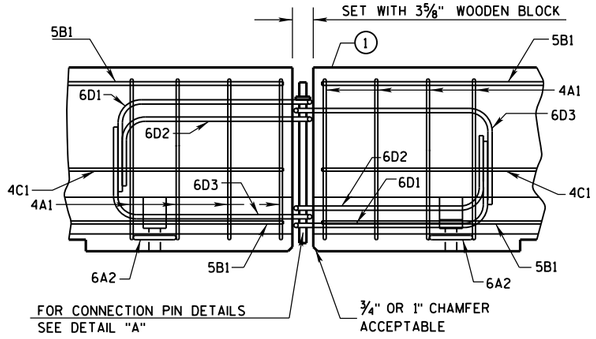


DETAIL "B"
LIFTING SLOT DETAIL

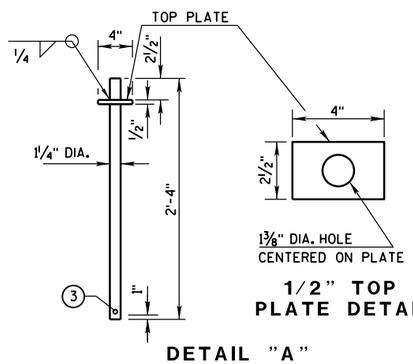


PLAN VIEW

DETAILS OF BARRIER SECTION

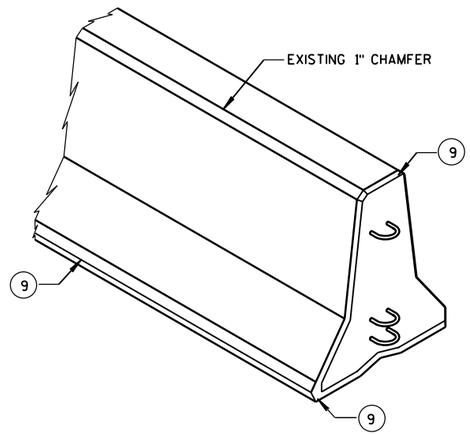


DETAILS OF BARRIER CONNECTION



1/2" TOP
PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-15(a) THRU 14B7-15(i).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

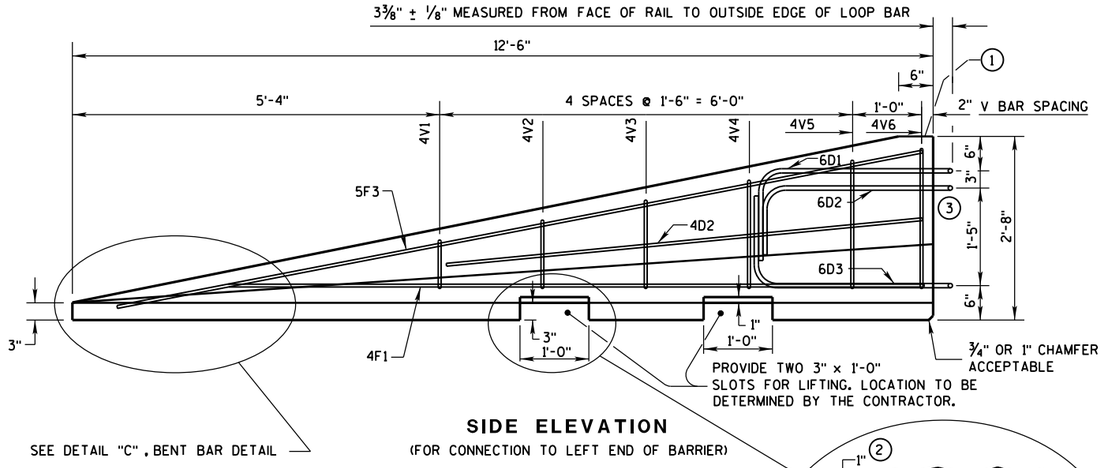
(8) SEE SHEET D FOR HOW TO ANCHOR BARRIER. SEE SHEET E FOR WHEN TO ANCHOR BARRIER.

(9) 1" CHAMFER OPTIONAL.

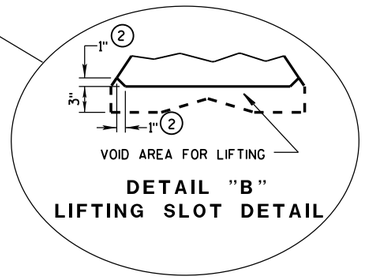
f'c = 4,000 psi

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

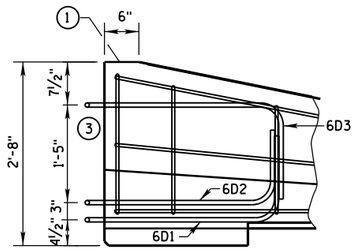
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 691



SIDE ELEVATION
(FOR CONNECTION TO LEFT END OF BARRIER)



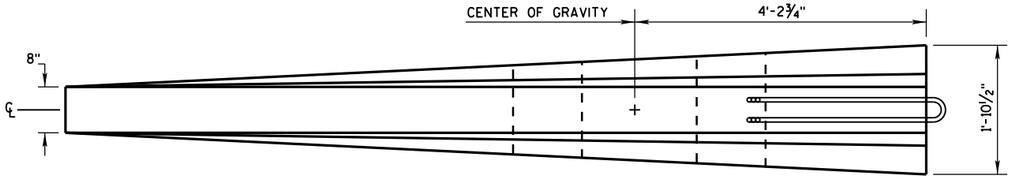
DETAIL "B"
LIFTING SLOT DETAIL



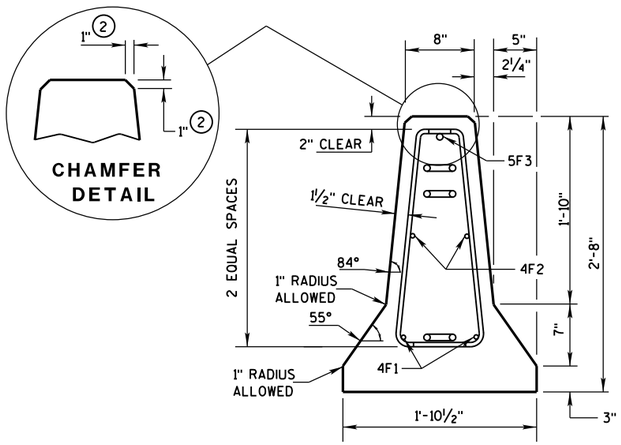
SIDE ELEVATION
LOOP BAR ASSEMBLY INVERTED
FOR OPPOSITE END.
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

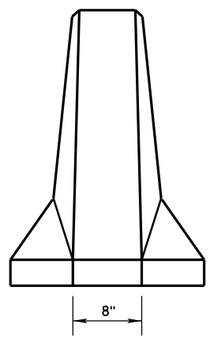
1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.



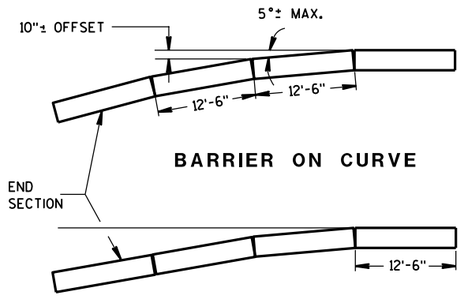
PLAN VIEW



END SECTION



FRONT ELEVATION



BARRIER ON CURVE

FLARE AT BARRIER END

POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 692

6

S.D.D. 14 B 7-15b

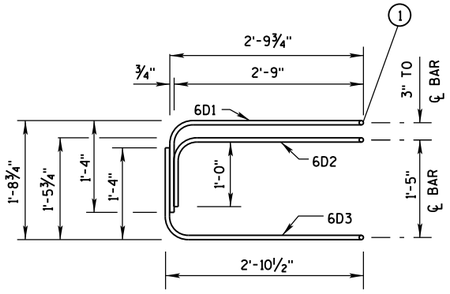
6

S.D.D. 14 B 7-15b

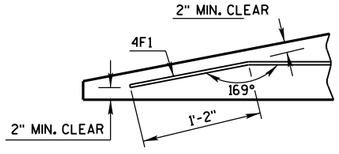
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

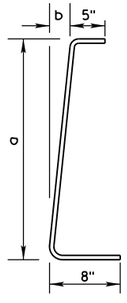
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

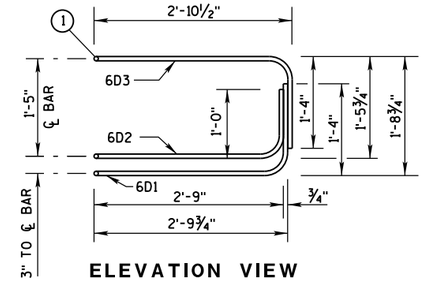
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

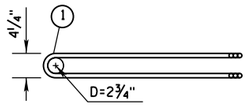
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

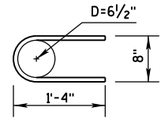
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



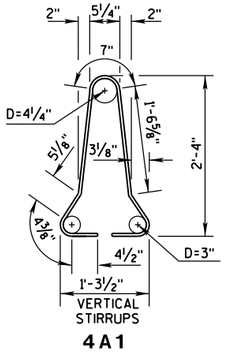
ELEVATION VIEW



PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



6A2



4A1

BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

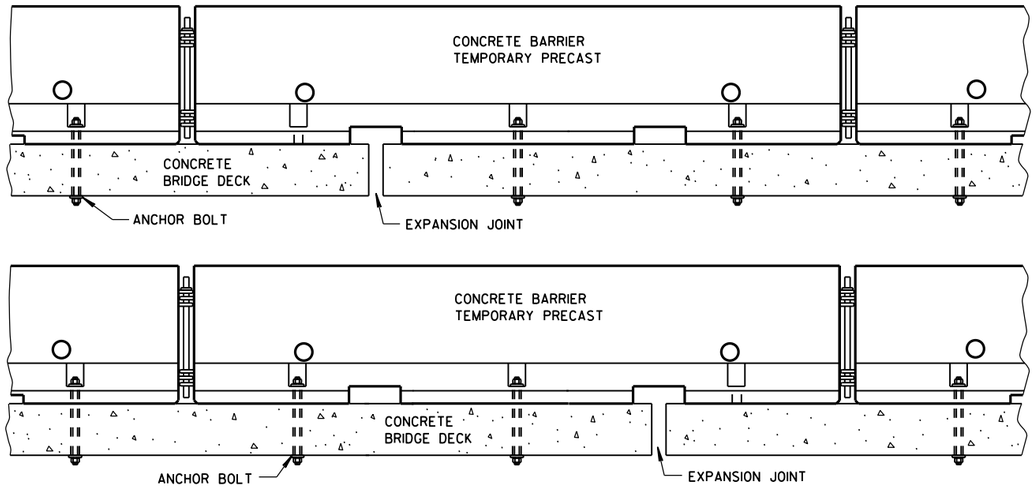
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 693

6

S.D.D. 14 B 7-15c

6

S.D.D. 14 B 7-15c



TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)

GENERAL NOTES

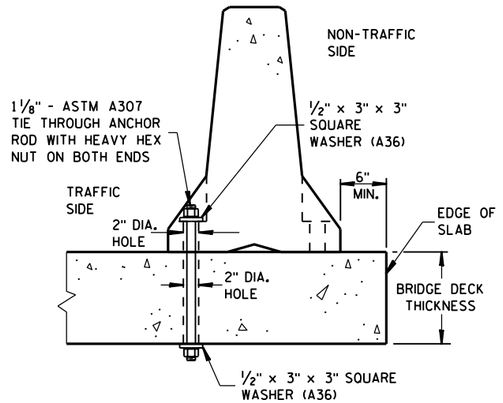
SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(1) 1⅛" DIAMENTER A307 THREADED ROD. ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL. ASTM A563A HEAVY HEX NUT.

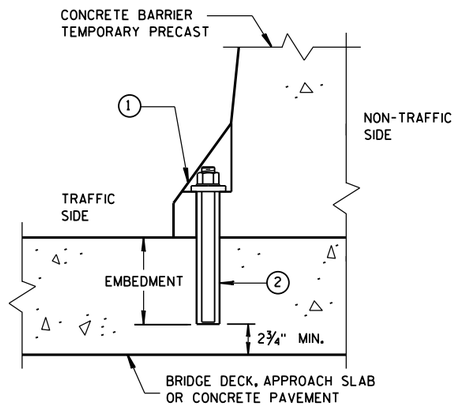
(2) ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.

(3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



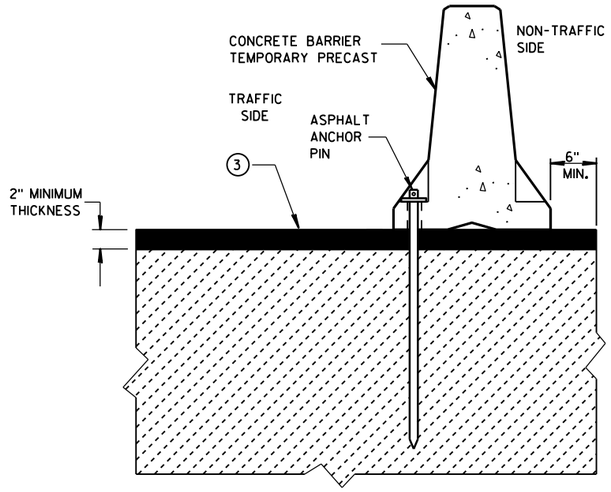
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

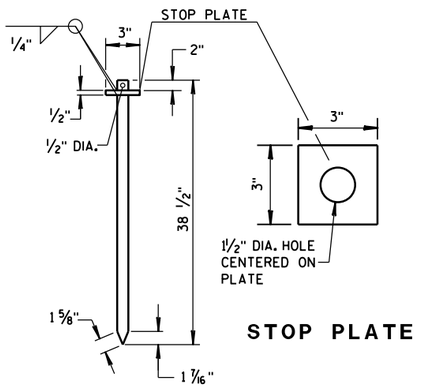


REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



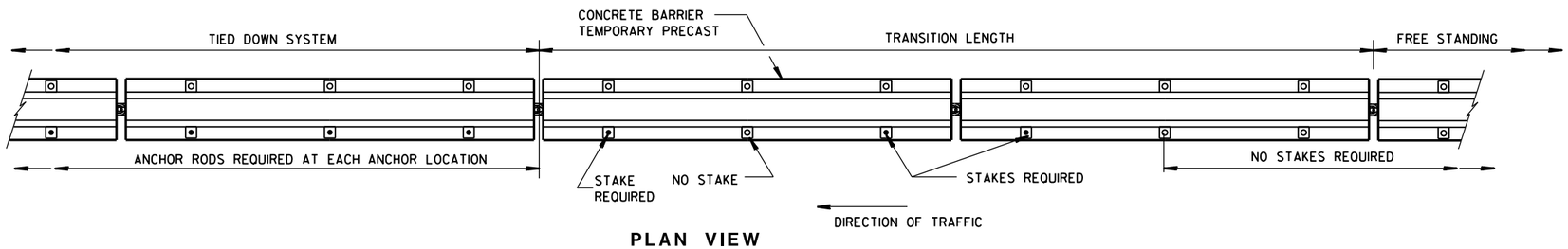
STAKE DOWN INSTALLATION FOR ASPHALTIC SURFACE



STOP PLATE

ASPHALT ANCHOR PIN

(ASTM A36 STEEL)



PLAN VIEW

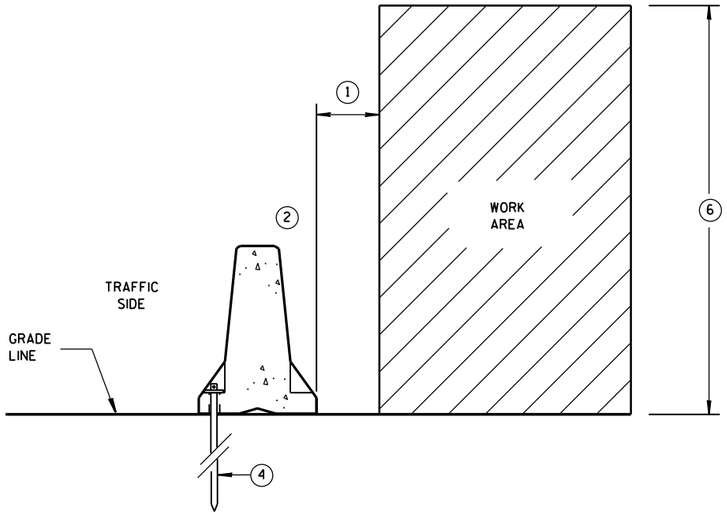
FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

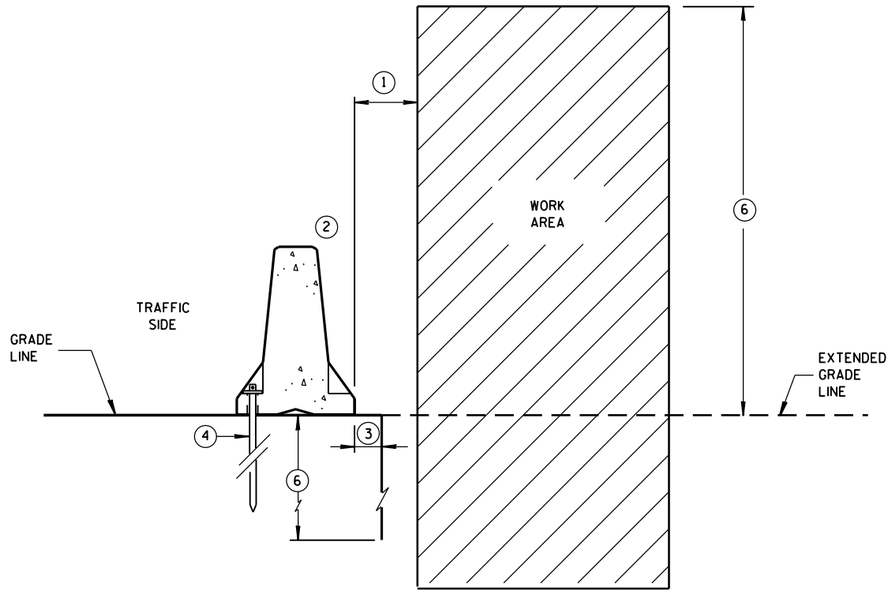
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15d



ANCHORED BARRIER SPACE REQUIREMENTS FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

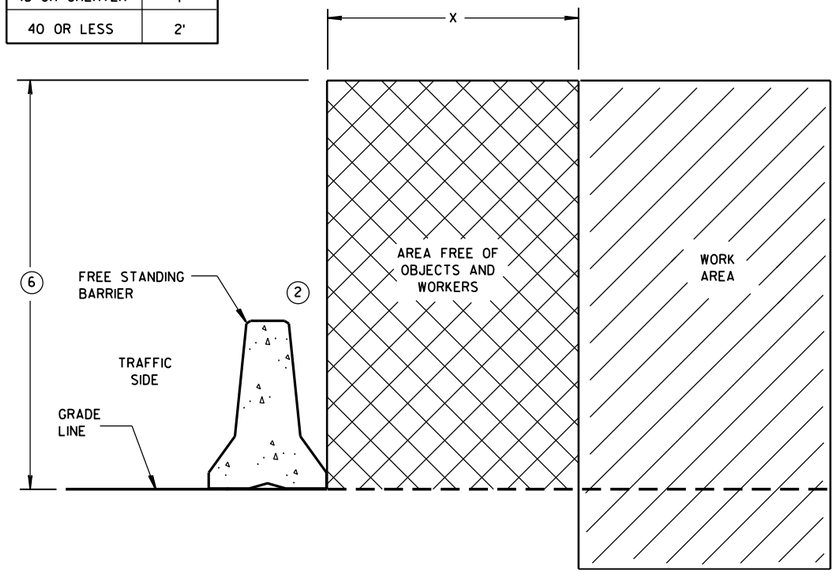


ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS

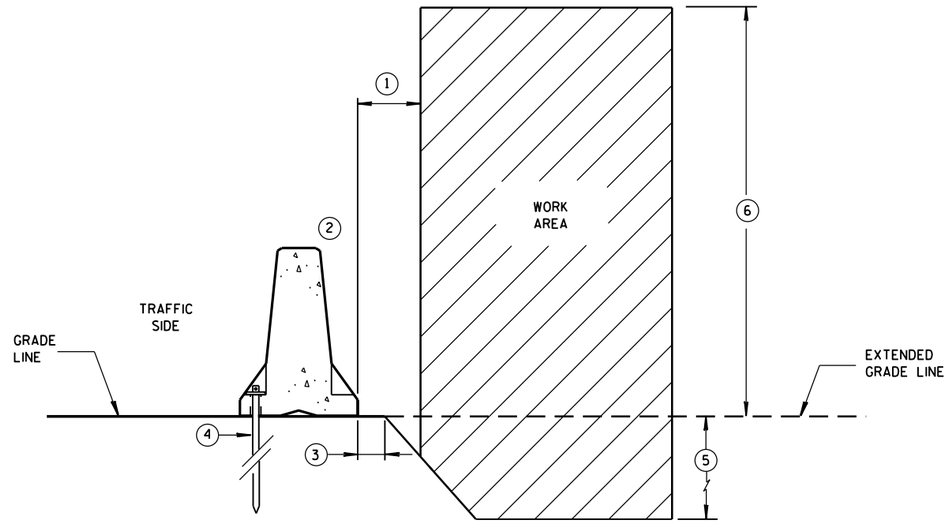
GENERAL NOTES

1. WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR VERTICAL DROPS.
2. OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
3. SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
4. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
5. DEPTH OF 3 FEET OR MORE.
6. Y = 6'-6".

POSTED SPEED MPH	X
45 OR GREATER	4'
40 OR LESS	2'



FREE STANDING BARRIER SPACE REQUIREMENTS

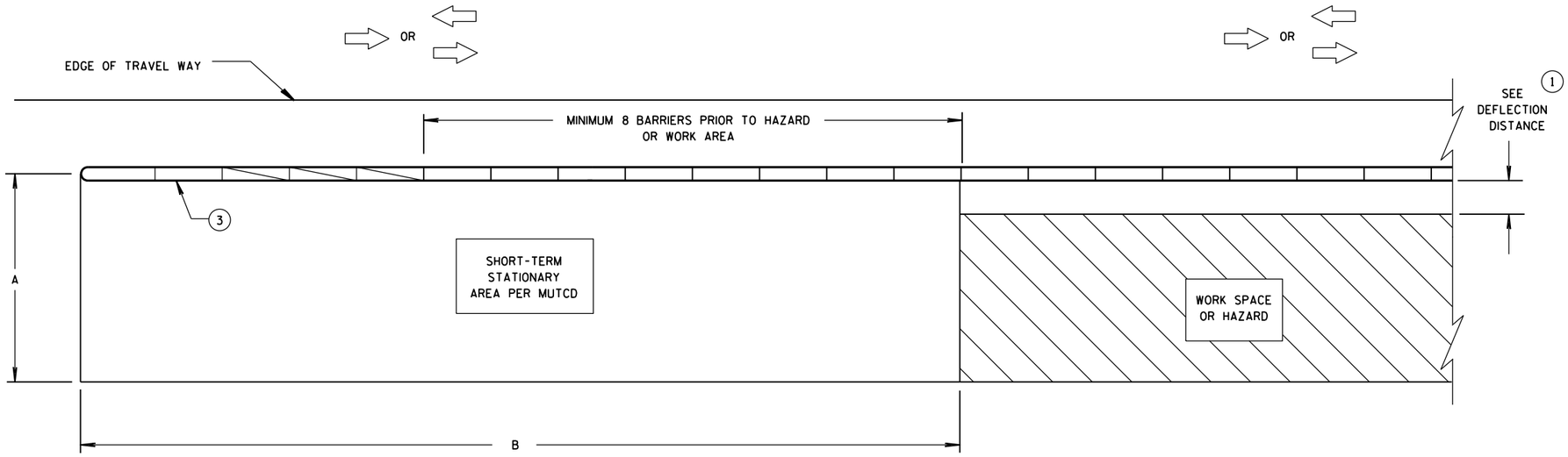


ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 695

6
S.D.D. 14 B 7-15e



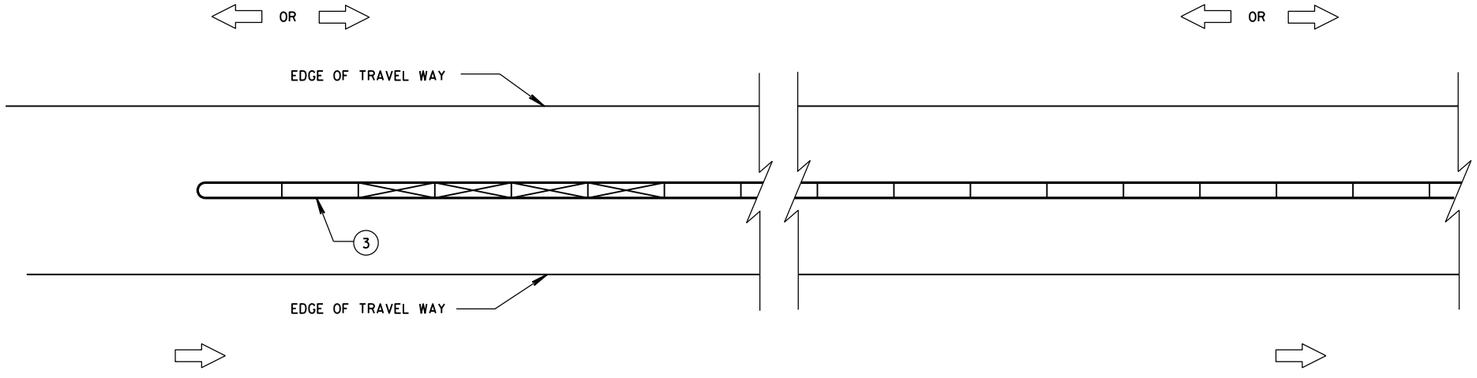
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

DIMENSION A TABLE (2)

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

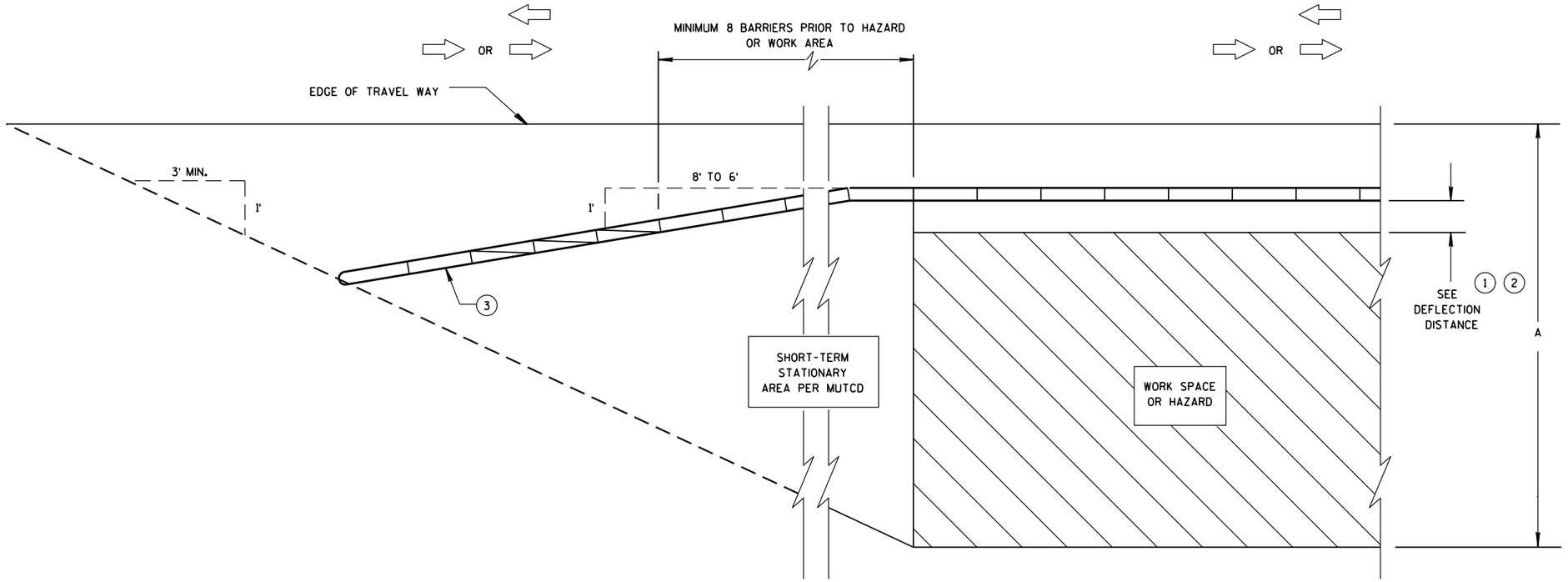
(3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

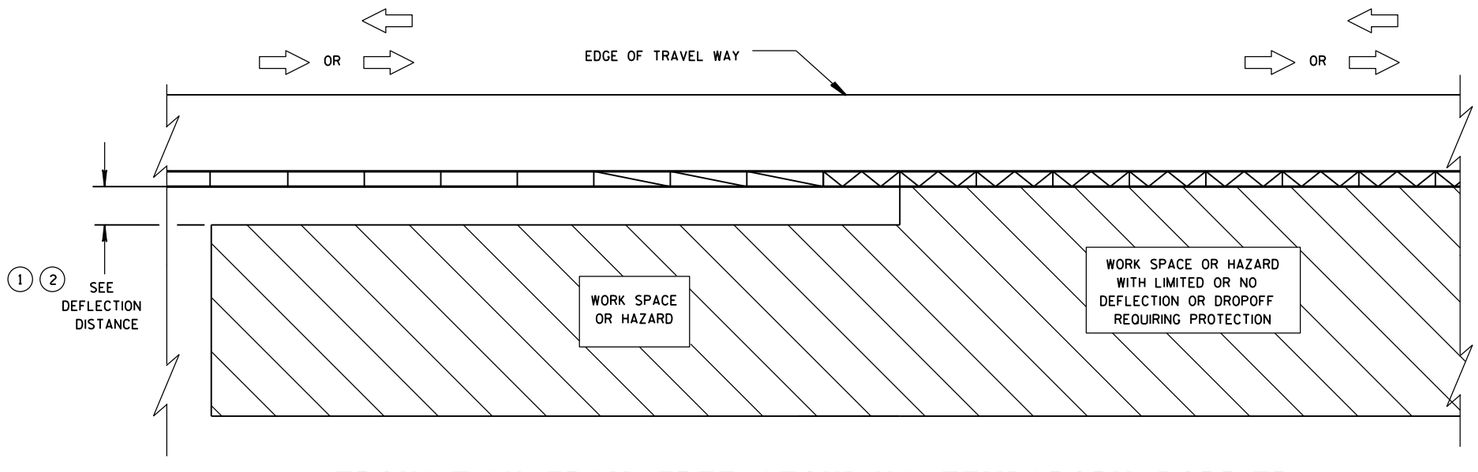
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 8-2a



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

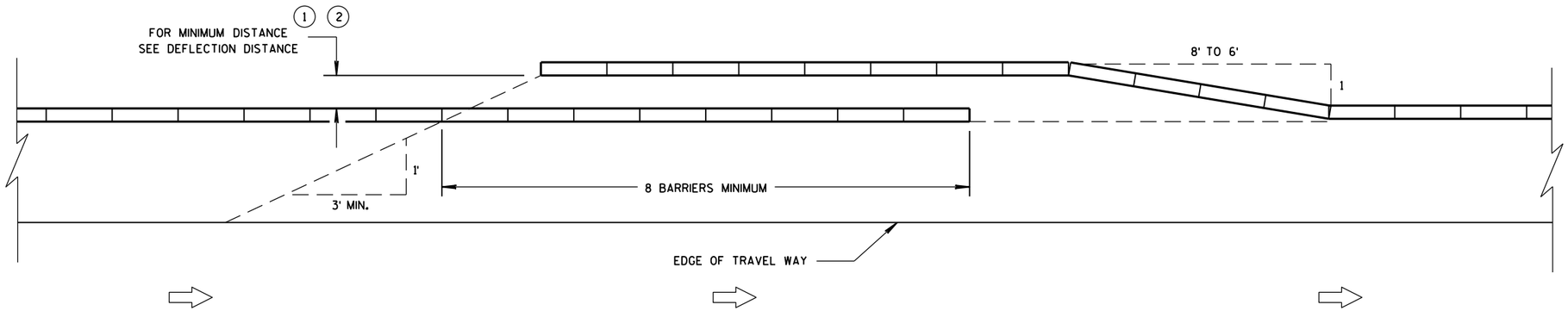
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

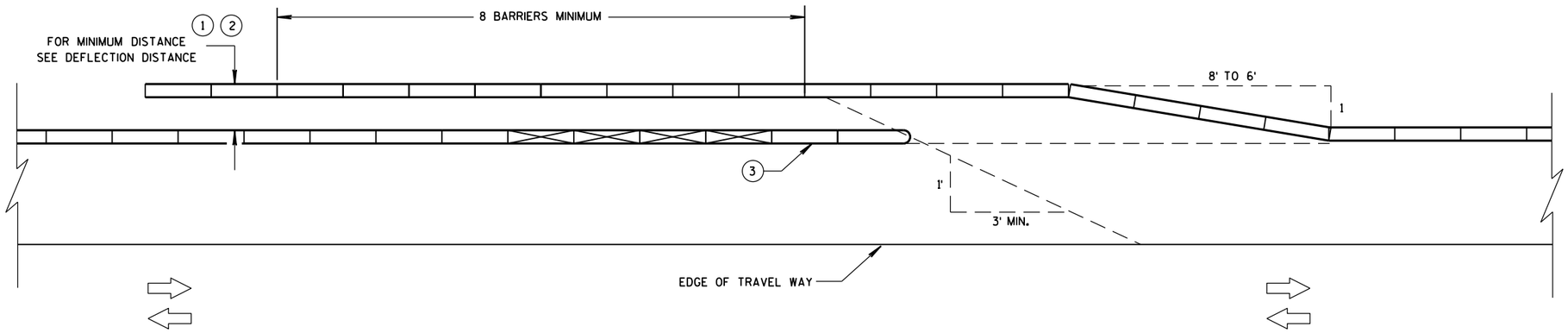
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

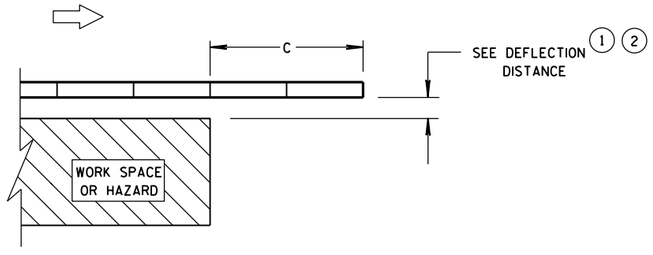
S.D.D. 14 B 8-2b



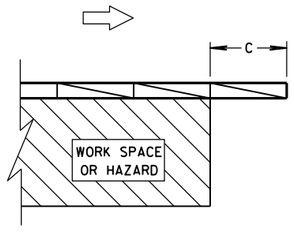
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

LEGEND

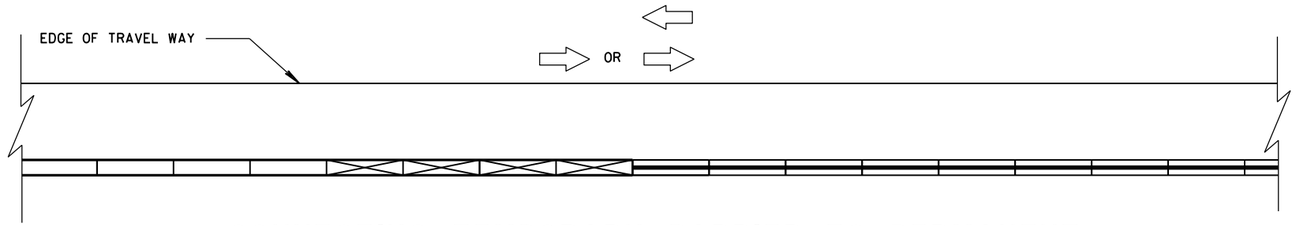
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

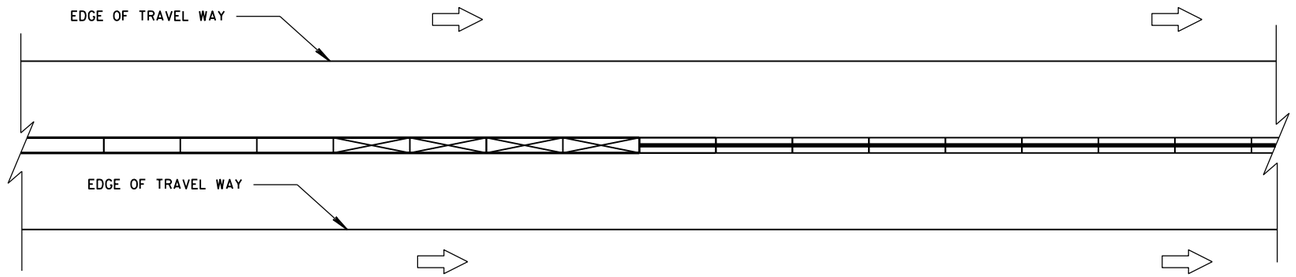
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 8-2c



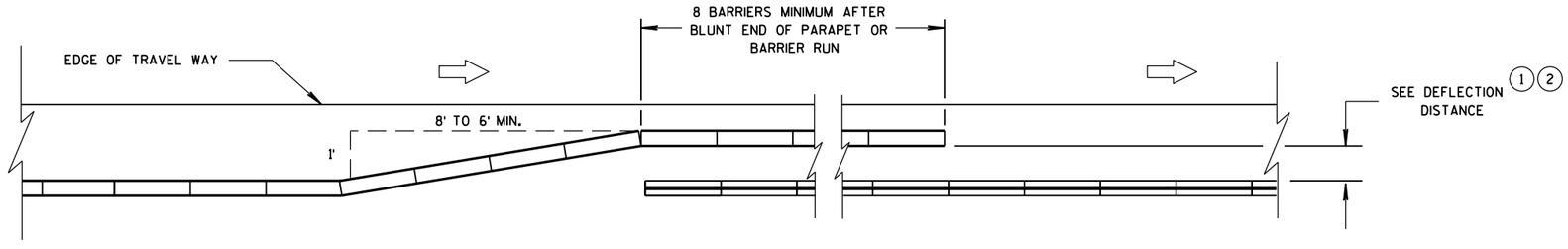
CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON ONE SIDE



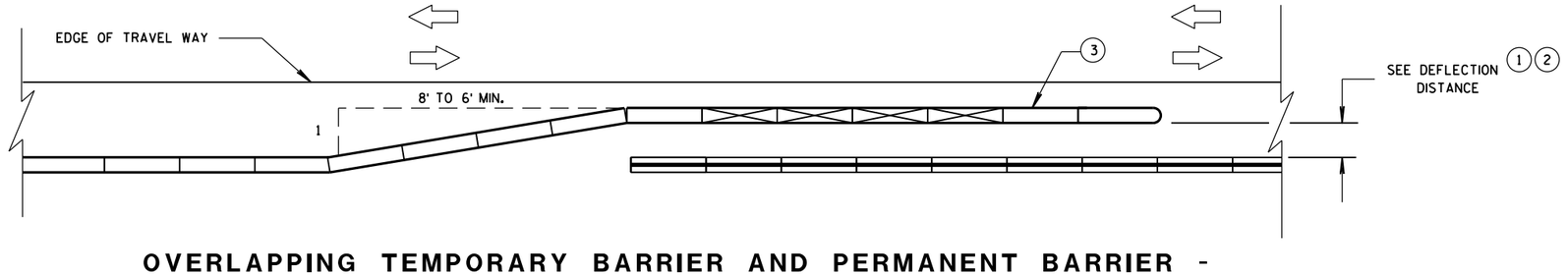
CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON BOTH SIDES

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
ONE WAY TRAFFIC



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
TWO WAY TRAFFIC

CRASH CUSHION/SAND BARREL
ARRAY AND OTHER TEMPORARY
BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 8-2d

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

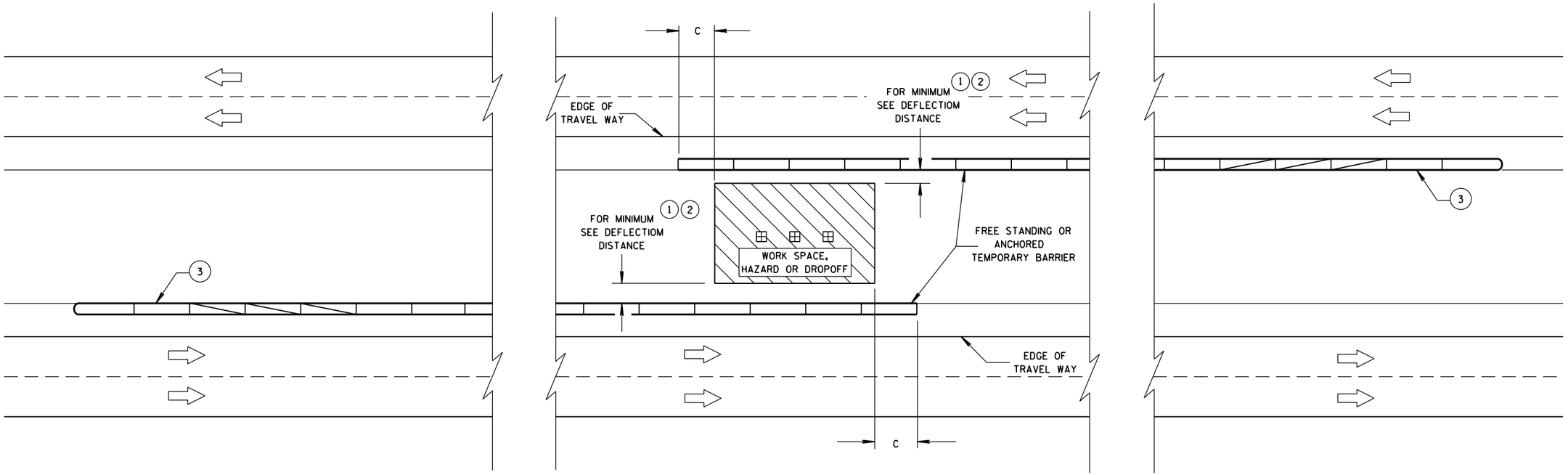
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

DIMENSION C TABLE (2)

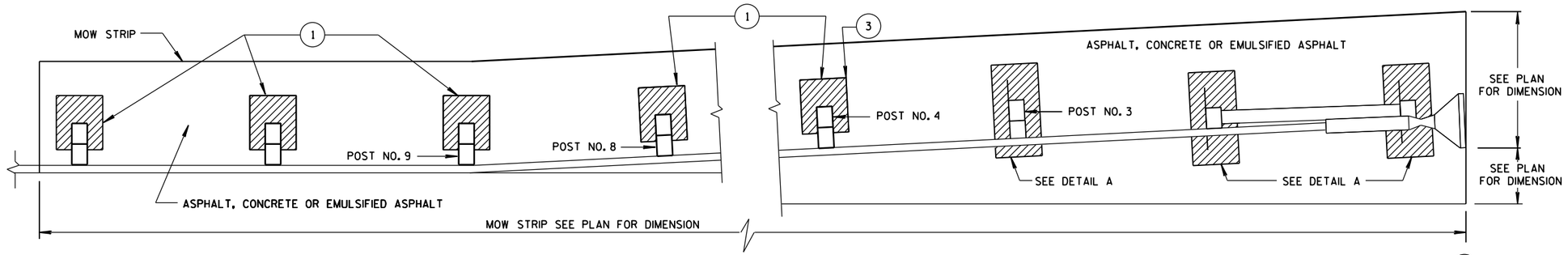
AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

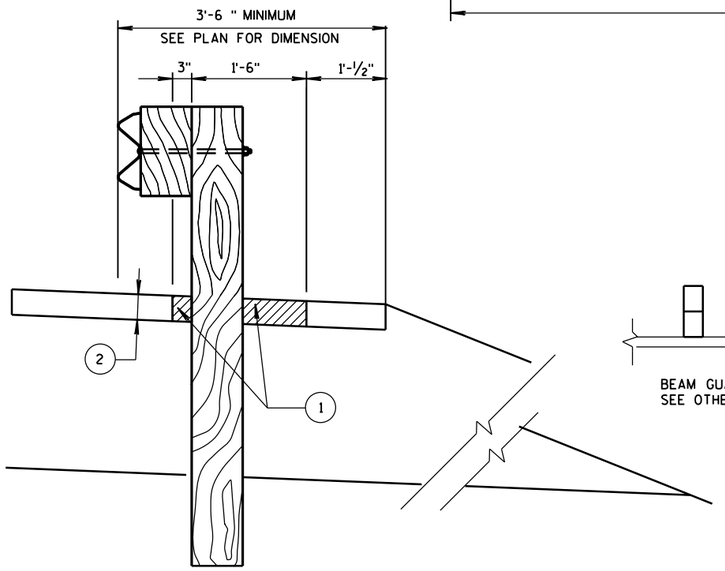
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINNER
FHWA

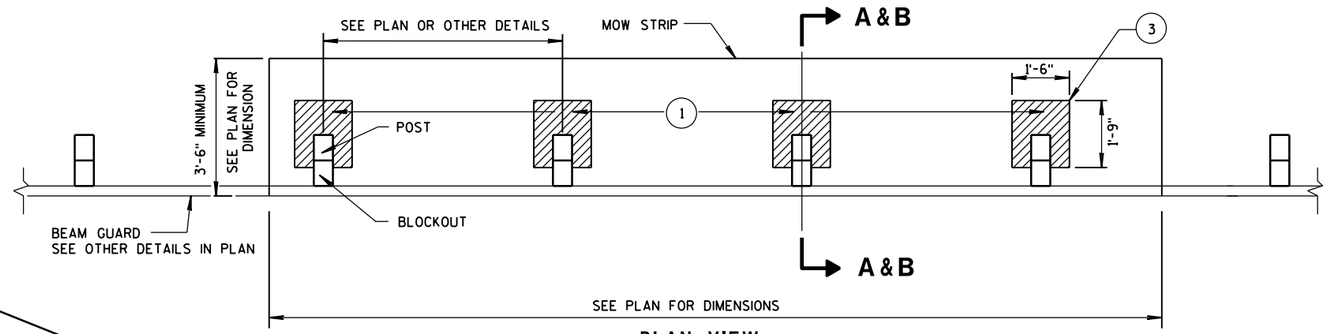


PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABORBING TERMINAL

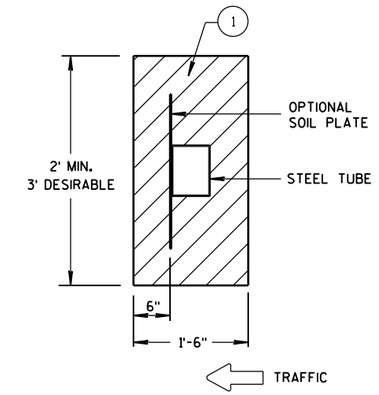


SECTION A-A

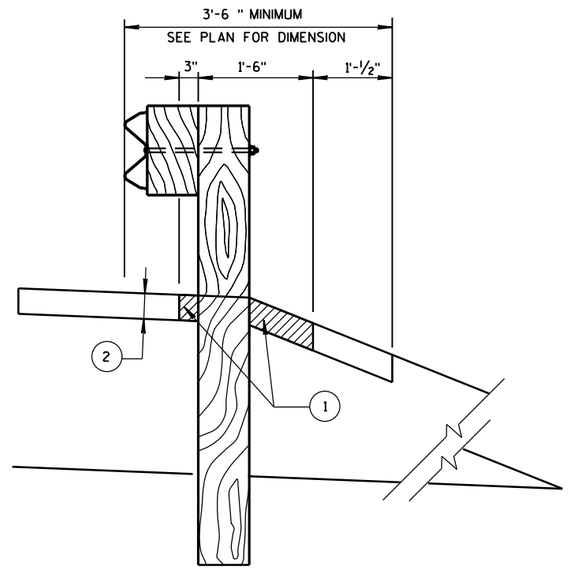


PLAN VIEW

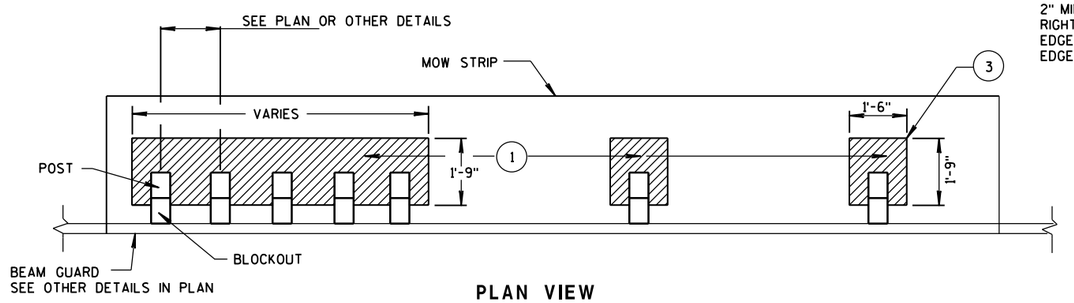
MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT



DETAIL A

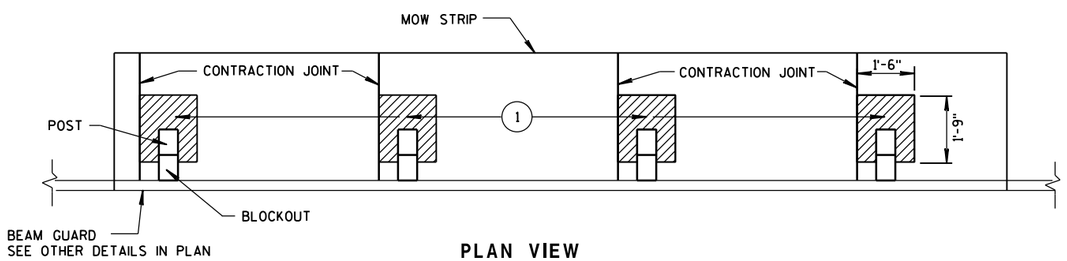


SECTION B-B



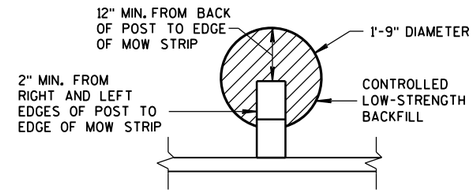
PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP



ALTERNATIVE HMA
MOW STRIP DESIGN

(1) CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.

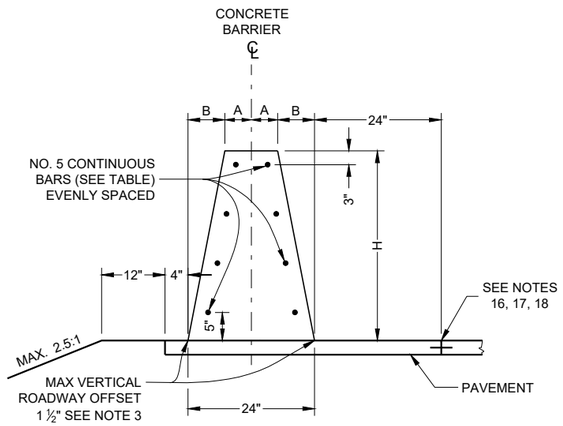
(2) DEPTH OF MOW STRIP:
ASPHALT - 4"
CONCRETE - 4"
EMULSIFIED ASPHALT - 1" OR LESS

(3) FOR EMULSIFIED ASPHALT MOW STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS.)

GUARDRAIL MOW STRIP

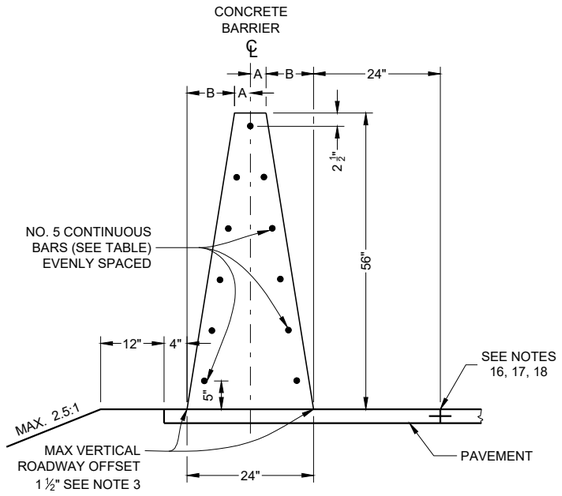
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA



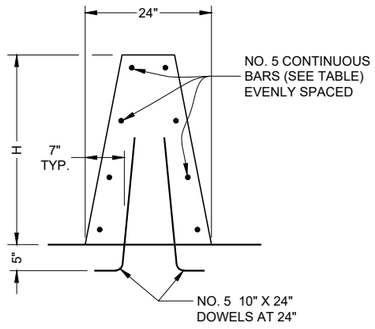
32 - INCH, 36 - INCH OR 42 - INCH SINGLE SLOPE CONCRETE BARRIER

(TYPE S32, TYPE S36, TYPE S42)



56 - INCH SINGLE SLOPE CONCRETE BARRIER

(TYPE S56)

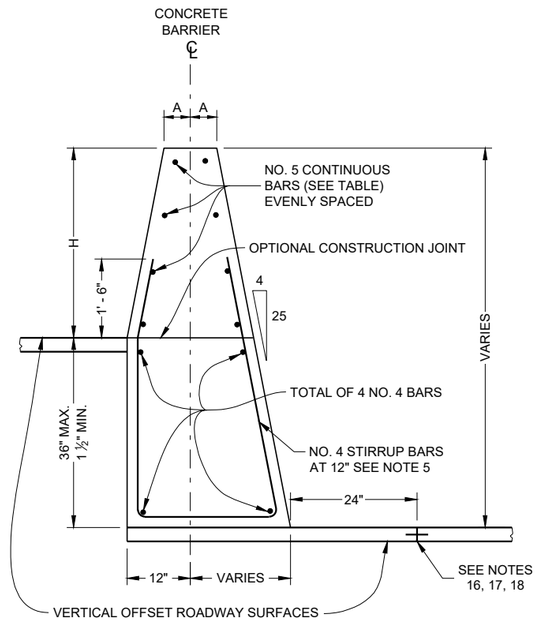


SINGLE SLOPE CONCRETE BARRIER ON BRIDGE

(NON OUTER PARAPET APPLICATION)

GENERAL NOTES

1. WHERE THE CONCRETE BARRIER IS ADDED TO THE FACE OF EXISTING CONCRETE STRUCTURE, MATCH EXISTING WEEP HOLES.
2. EXPANSION JOINTS IN CONCRETE BARRIER SHALL BE LOCATED AT ALL DECK AND PRINCIPAL WALL JOINTS. EXPANSION JOINT FILLER MATERIAL SHALL BE THE SAME SIZE AS JOINT OF ½" MINIMUM.
3. WHERE VERTICAL ROADWAY OFFSET IS GREATER THAT 1", USE TYPE A.
4. PLACE BARRIER PERPENDICULAR TO SHOULDER GRADE, UNLESS INDICATED IN PLAN.
5. EXCEPT IN ANCHORS, VERTICAL REINFORCING STIRRUP NOT REQUIRED FOR ROADWAY OFFSETS LESS THAN 1' - 0".
6. FOR TYPE S32, TYPE S36, TYPE S42 AND TYPE S56 MONLITHIC FOOTING OR DOWELED FOOTING 2 - #8 X 8" @ 2'- 0".
7. STAGGER LAPPING OF LONGITUDINAL STEEL. MINIMUM OVERLAP OF STEEL 2 FEET. BARS AT LAPS TO BE FIRMLY TIED OR CONNECTED.
8. 4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATION 501.
9. WHEN SWITCHING BETWEEN SLIP FORM AND CAST - IN - PLACE OPERATIONS, EXTEND LONGITUDINAL STEEL 3 FEET BEYOND SLIP FORMING CUT - OFF POINT. EXPOSED STEEL INTO NEXT POURS REINFORCEMENT. LAPS TO BE FIRMLY TIED.
10. USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.
11. 2" CLEAR COVER TYPICAL
12. COLD-JOINTS MAY BE USED BETWEEN ANCHOR INSTALLATIONS. WHEN A COLD JOINT IS NEEDED, 3 FEET OF LAP OF LONGITUDINAL STEEL IS REQUIRED. LAPS TO BE FIRMLY TIED.
13. IN TYPE S32, TYPE S36, TYPE S42 AND TYPE S56 NO ADDITIONAL VERTICAL STEEL IS NEEDED. IN TYPE S32A, TYPE S36A, TYPE S42A AND TYPE S56A REQUIRES VERTICAL STEEL. SEE OTHER DETAIL.
14. IN TYPE S32, TYPE S36, TYPE S42 AND TYPE S56 DEPTH OF FOOTING 10". IN TYPE S32A, TYPE S36A, TYPE S42A AND TYPE S56A MATCH TOTAL HEIGHT OF SINGLE SLOPE BARRIER RETAINING WALL.
15. FOR ALL BARRIER TYPES SHOWN, ANCHOR IS REQUIRED AT CONCRETE BARRIER ENDS AND AT INTERRUPTIONS IN CONCRETE BARRIER. ANCHOR MAY BE AS SHOWN ON DRAWING OR DETAILS SHOWN ON S.D.D. 14B33. ANCHORS INCIDENTAL TO CBSS.
16. CONCRETE PAD UNDER CBSS MAY BE PLACED INTEGRAL WITH BARRIER, PLACED SEPARATELY OR PLACED WITH CONCRETE SHOULDER AND SAWED FULL DEPTH. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.
17. CONSTRUCTION JOINTS MAY BE ELIMINATED WHEN CONCRETE SHOULDER IS LESS THAN 10'.
18. SEE SDD 13C1 FOR DETAILS TYING BARRIER FOOTING TO ADJACENT CONCRETE.
19. PROVIDE A 1" DEEP, ," WIDE CONTRACTION JOINT IN BARRIER FOOTING AND BARRIER. JOINT IS TO MATCH ADJACENT CONCRETE JOINTS. IF ADJACENT TO ASPHALT CONTRACTION JOINT IS REQUIRED EVERY 15'.

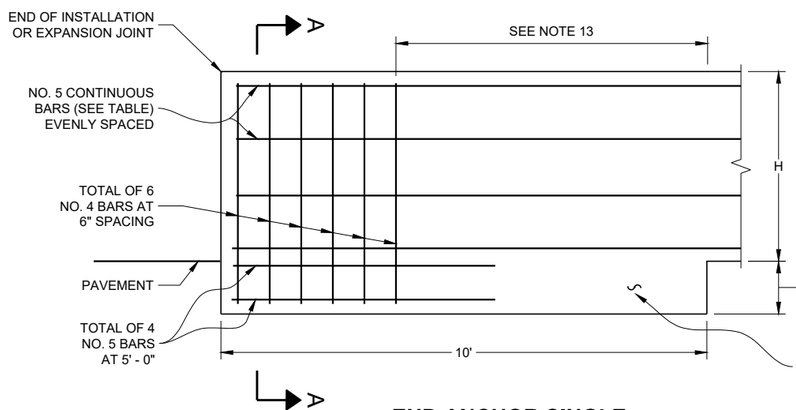


SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL

(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)

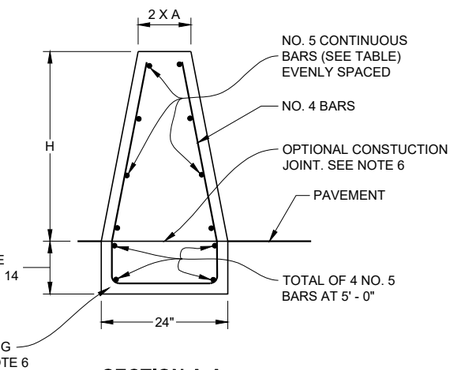
(BETWEEN ADJACENT ROADWAYS)

BARRIER HEIGHT H INCHES	A INCHES	B INCHES	NUMBER OF NO. 5 BARS EACH
32	7	5	8
36	6 ¼	5 ¾	8
42	5 ¼	6 ¾	10
56	3	9	11

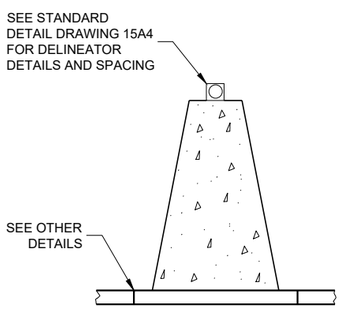


END ANCHOR SINGLE SLOPE CONCRETE BARRIER

(AT CONSTRUCTION JOINT)



SECTION A-A

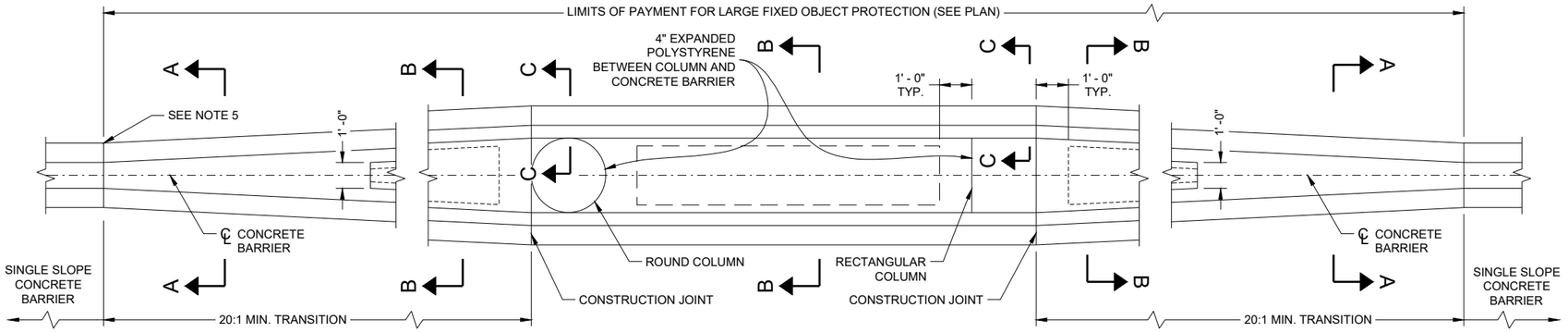


DELINEATION

CONCRETE BARRIER SINGLE SLOPE (CBSS)

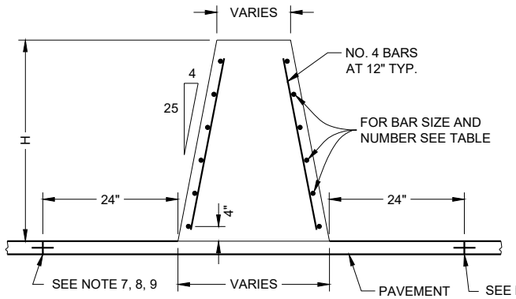
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B32 - 06a

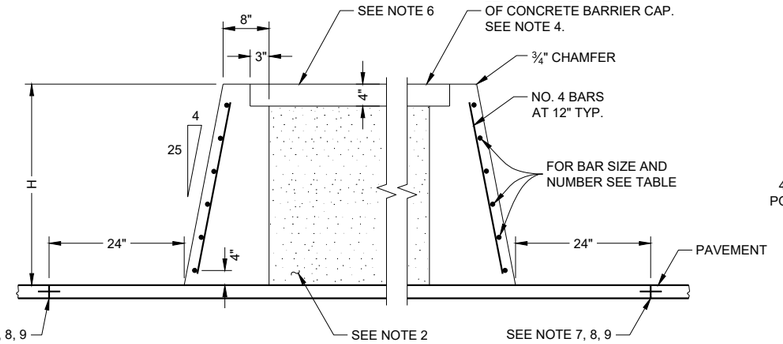


BARRIER HEIGHT H INCHES	BAR SIZE	NUMBER OF BARS EACH
32	4	6
36	4	6
42	5	6
56	5	6

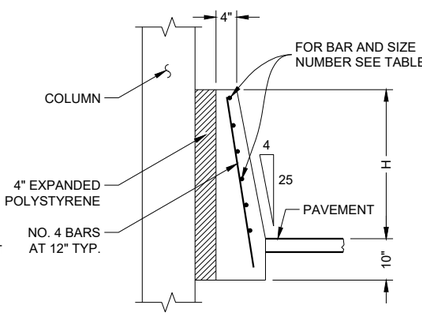
LARGE FIXED OBJECTS PROTECTION
(TYPE S32, TYPE S36, TYPE S42, TYPE S56)



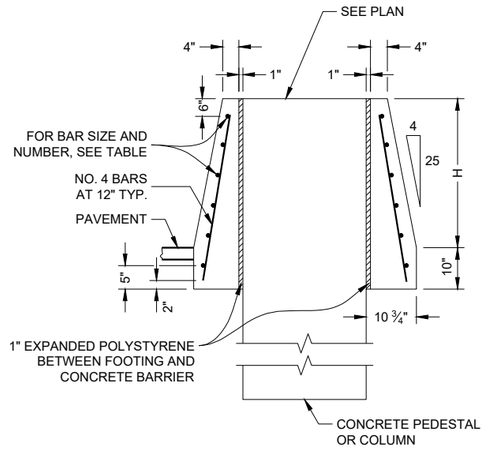
SECTION A - A



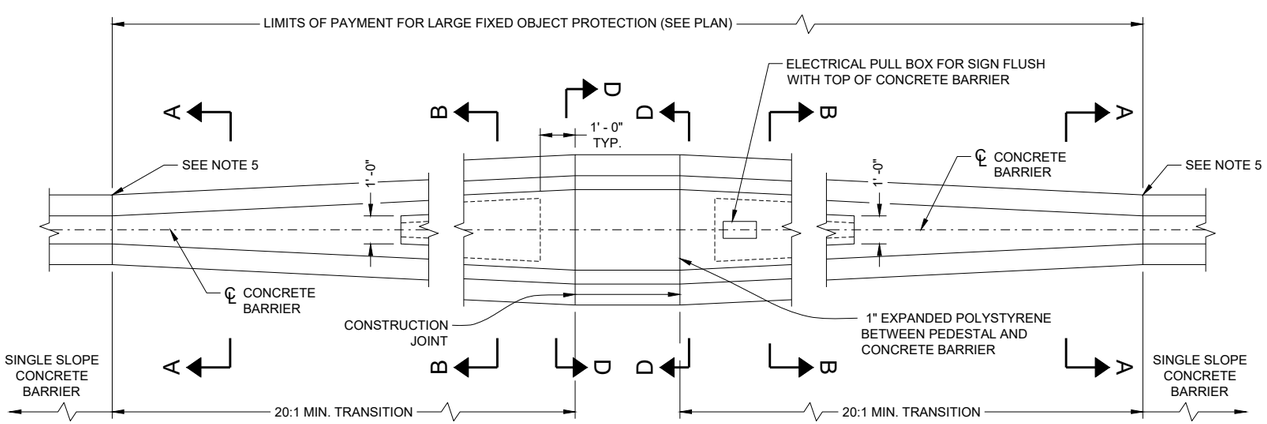
SECTION B - B



SECTION C - C



SECTION D - D



SMALL FIXED OBJECTS PROTECTION
(TYPE S32, TYPE S36, TYPE S42, TYPE S56)

GENERAL NOTES

1. INSTALL 1 INCH DIAMETER DRAIN PIPE EVERY 20 FEET OF CROSS SECTION B -B. MINIMUM ONE DRAIN CAVITY.
2. BETWEEN CONCRETE BARRIER WALLS FILL WITH FOUNDATION BACKFILL.
3. REINFORCING STEEL SHALL EXTEND CONTINUOUS THROUGH CONSTRUCTION JOINTS.
4. ADJUST HEIGHT OF CONCRETE BARRIER WALL ON LOW SIDE OF OFFSET OR SUPERELEVATED ROADWAYS TO PROVIDE LEVEL GRADE ACROSS TOP OF CONCRETE CAP.
5. IF FIXED OBJECT PROTECTION IS INSTALLED FIRST, USE COLD JOINTS. IF CBSS PLACED FIRST, USE EXPANSION JOINT.
6. USE NO. 3 BAR SPACED 12 INCHES CENTER TO CENTER (PLACED IN EACH DIRECTION) OR EQUIVALENT WIRE MESH.
7. CONCRETE PAD UNDER CBSS MAY BE PLACED INTEGRAL WITH BARRIER, PLACED SEPARATELY OR PLACED ITH CONCRETE SHOULDER AND SAWED FULL DEPTH. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.
8. CONSTRUCTION JOINTS MAY BE ELIMINATED WHEN CONCRETE SHOULDER IS LESS THAN 10',
9. SEE SDD 13C1 FOR DETAILS TYING BARRIER FOOTING TO ADJACENT CONCRETE.

CONCRETE BARRIER SINGLE SLOPE (CBSS)

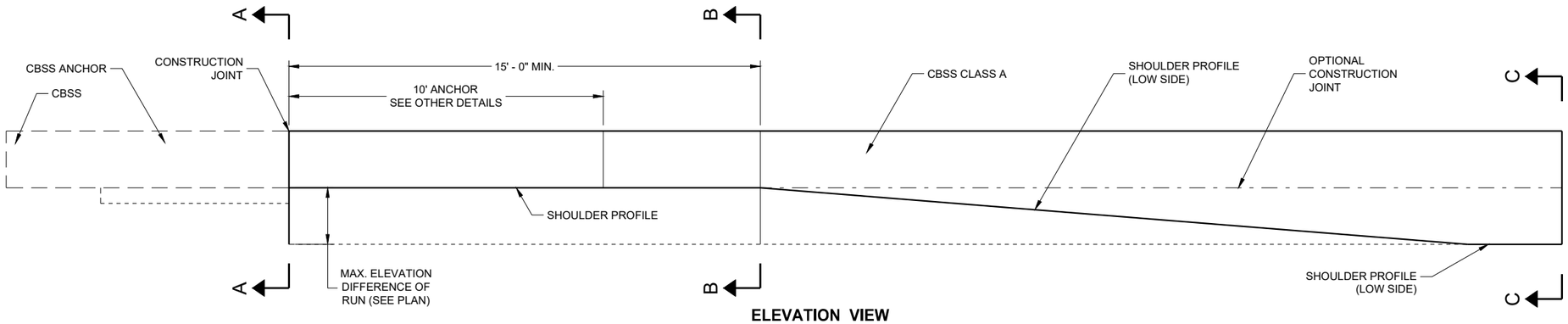
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B32 - 06b

SDD 14B32 - 06b

GENERAL NOTES

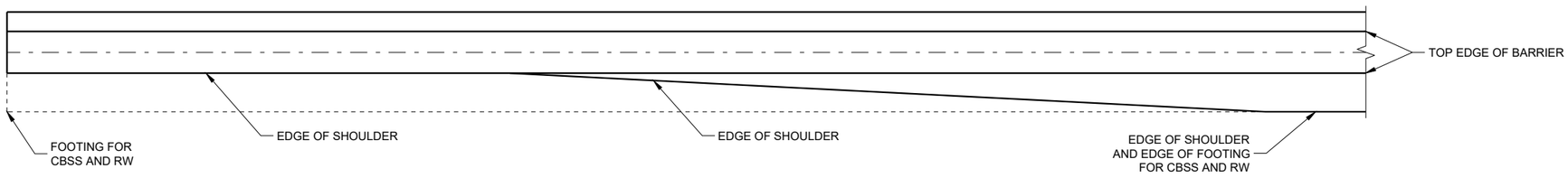
1. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. SEE SDD 13C18 FOR JOINT DEPTH AND WIDTH. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.
2. CONSTRUCTION JOINTS MAY BE ELIMINATED WHEN CONCRETE SHOULDER IS LESS THAN 10',
3. SEE SDD 13C1 FOR DETAILS TYING BARRIER FOOTING TO ADJACENT CONCRETE.



ELEVATION VIEW

TRANSITION TO CBSS CLASS A

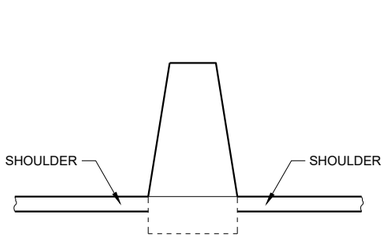
(TYPE S32A, TYPE S36A TYPE S42A TYPE S56A)



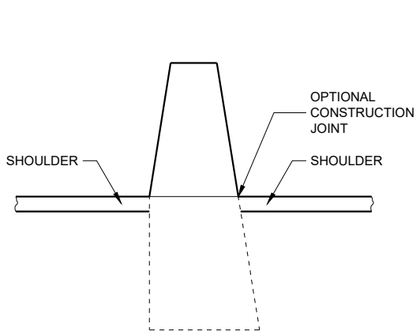
PLAN VIEW

TRANSITION TO CBSS CLASS A

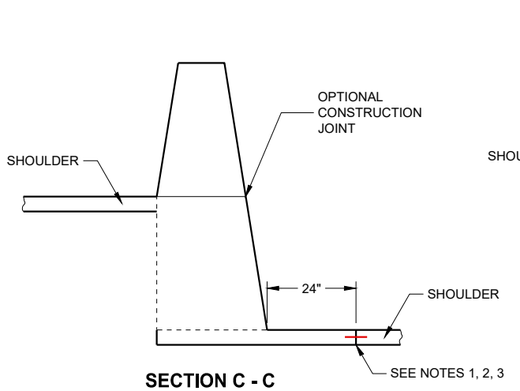
(TYPE S32A, TYPE S36A TYPE S42A TYPE S56A)



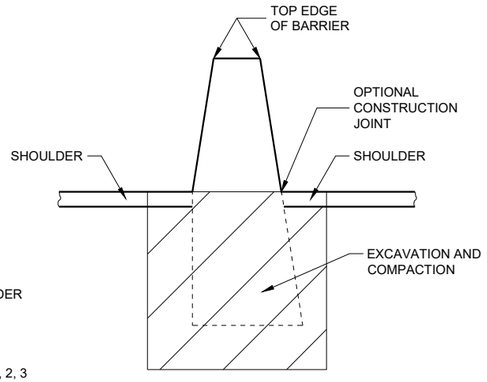
SECTION A - A



SECTION B - B



SECTION C - C

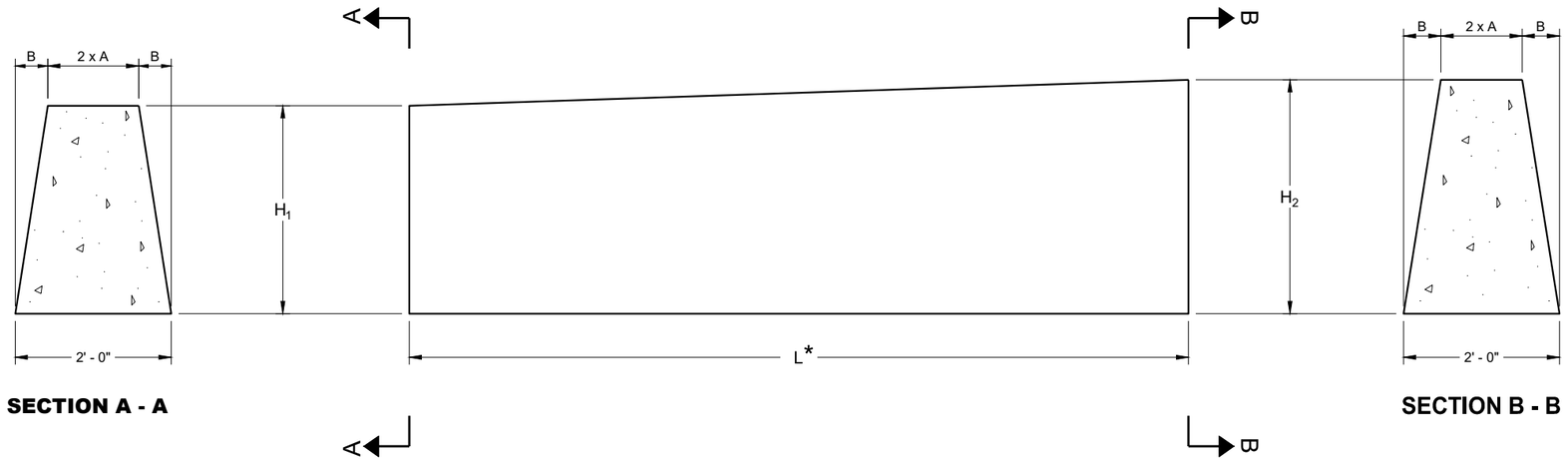


CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B32 - 06c



SECTION A - A

SECTION B - B

DOUBLE COLD JOINT HEIGHT TRANSITION

BARRIER DIMENSIONS

BARRIER HEIGHT INCHES	A INCHES	B INCHES
32	7	5
36	6 ¼	5 ¾
42	5 ¼	6 ¾
56	3	9

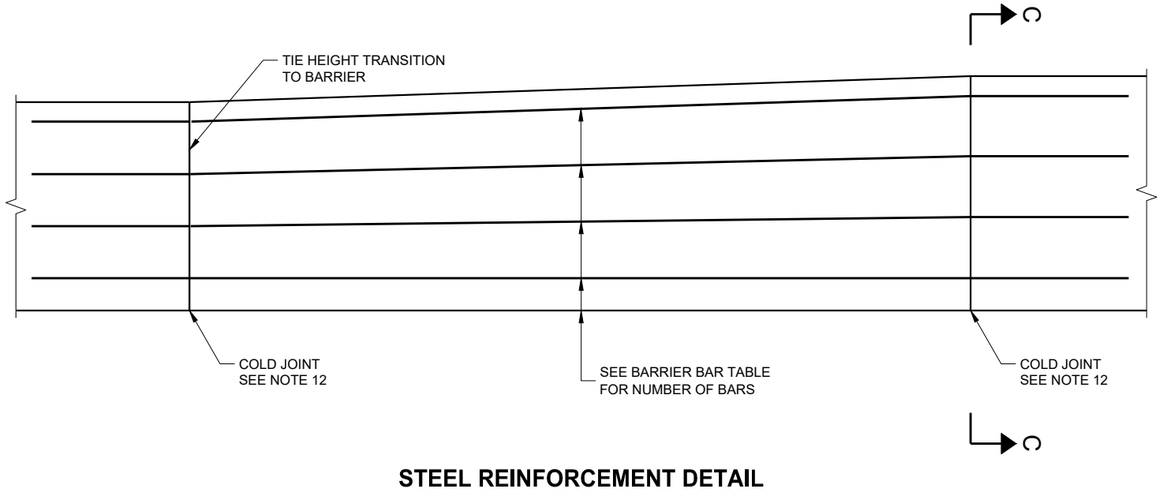
MULTIPLE HEIGHT TRANSITIONS MAY BE USED IN SEQUENCE TO GET TO APPROPRIATE HEIGHT.

USE COLD JOINT TO CONNECT MULTIPLE HEIGHT TRANSITIONS.

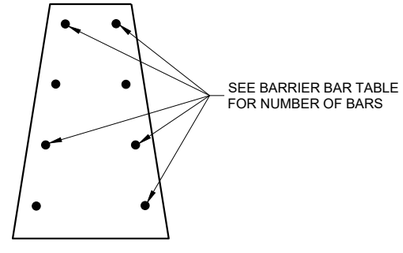
BARRIER BARS

H_1	H_2	L*	NUMBER OF NO. 5 BARS
32"	36"	10' - 0"	8
36"	42"	10' - 6"	10
42"	56"	24' - 6"	11

* LENGTH OF DOUBLE COLD JOINT INCLUDED IN THE TOTAL LENGTH OF CBSS.



STEEL REINFORCEMENT DETAIL



SECTION C-C

CONCRETE BARRIER SINGLE SLOPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

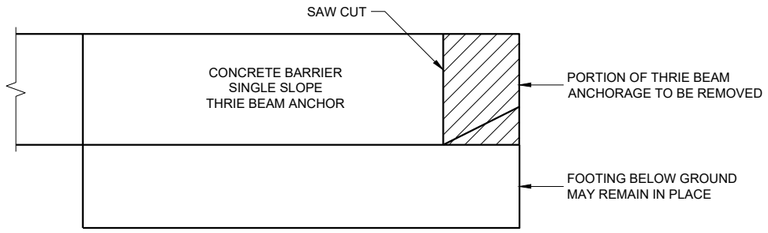
FHWA

6

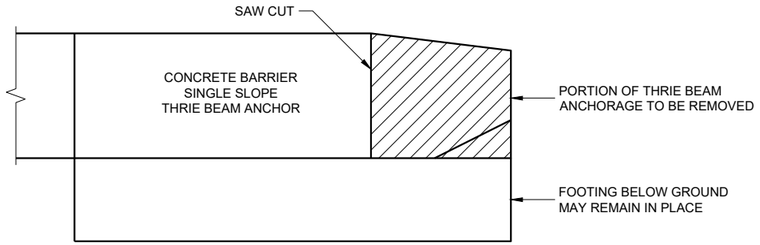
SDD 14B32 - 06d

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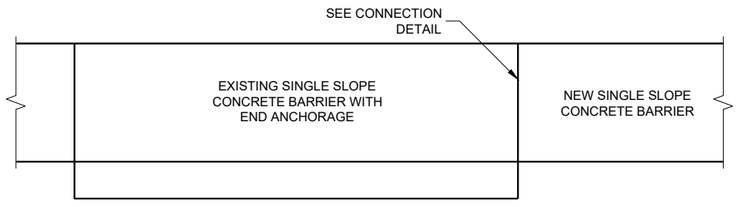
SDD 14B32 - 06d



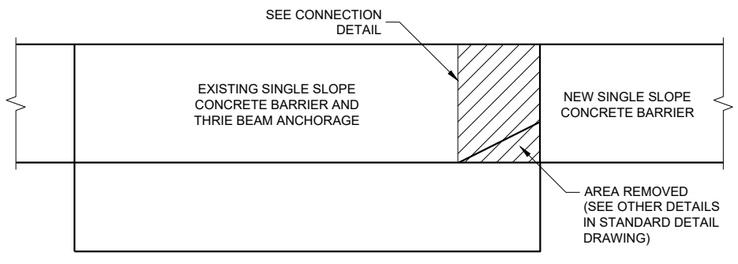
REMOVAL AREA OF
32" CONCRETE THRIE BEAM ANCHORAGE



REMOVAL AREA OF CONCRETE THRIE BEAM
ANCHORAGE WITH HEIGHT GREATER THAN 32"



ELEVATION VIEW OF CONCRETE
BARRIER EXTENSION NEAR END ANCHORAGE



ELEVATION VIEW OF CONCRETE
BARRIER EXTENSION NEAR THRIE BEAM TERMINAL

GENERAL NOTES

1 THE NUMBER OF DRILL HOLES IS EQUAL TO THE NUMBER OF REBAR IN BARRIER (SEE OTHER DETAILS).

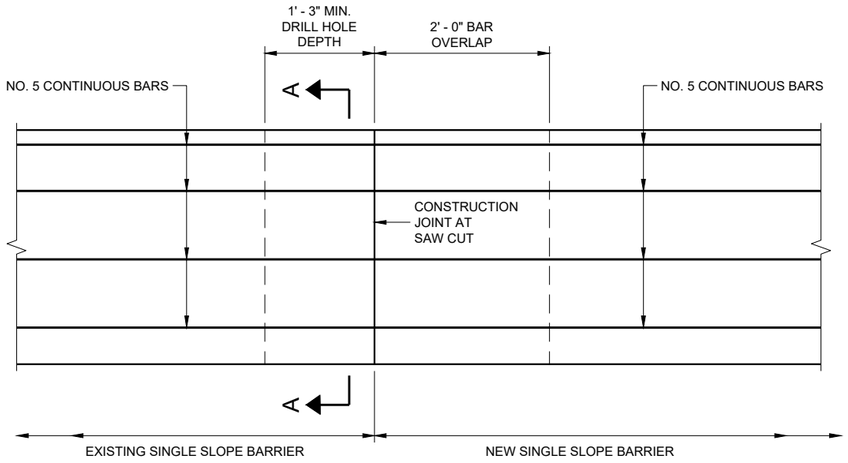
2. MINIMUM DEPTH OF DRILL HOLES IS 1' - 3".

3. DRILL HOLES TO BE A MINIMUM OF 4 INCHES FROM THE EDGE OF CONCRETE

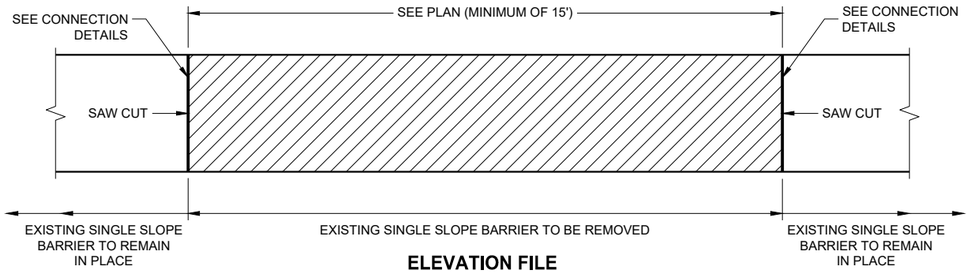
4. INSTALL EPOXY COATED NO. 5 BARS IN DRILL HOLES.

5. END ANCHORAGE MAY OR MAY NOT BE PRESENT ON EXISTING BARRIERS.

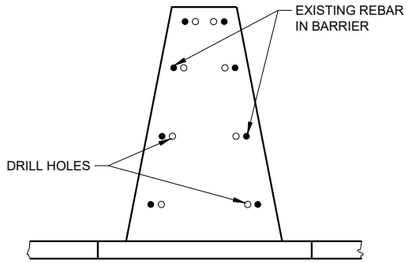
6. REMOVE THRIE BEAM ANCHORAGE AS SHOWN.



CONNECTION OF EXISTING SINGLE SLOPE CONCRETE BARRIER TO
NEW SINGLE SLOPE CONCRETE BARRIER



ELEVATION FILE
BARRIER REMOVAL AND REPLACEMENT



SECTION A-A

RETROFIT OR REPAIR SINGLE SLOPE CONCRETE BARRIER

CONCRETE BARRIER
SINGLE SLOPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR
FHWA

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SDD 14B32 - 06e

6

SDD 14B32 - 06e

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

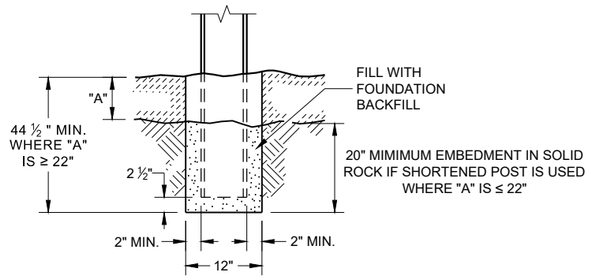
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

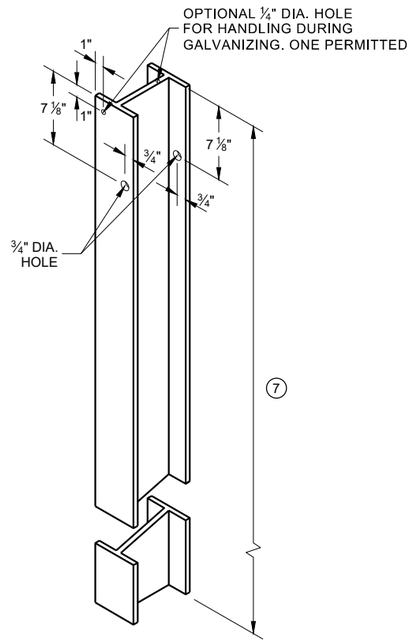
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS +1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

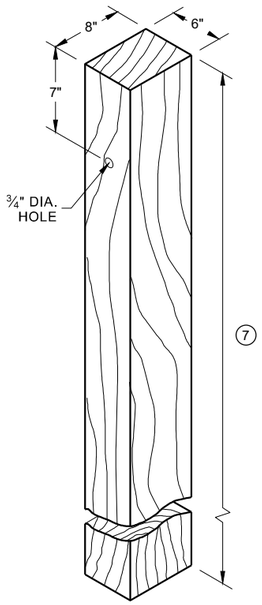
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



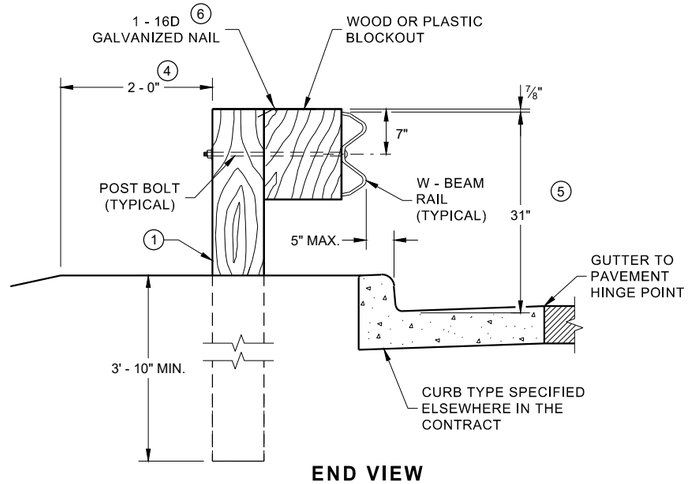
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



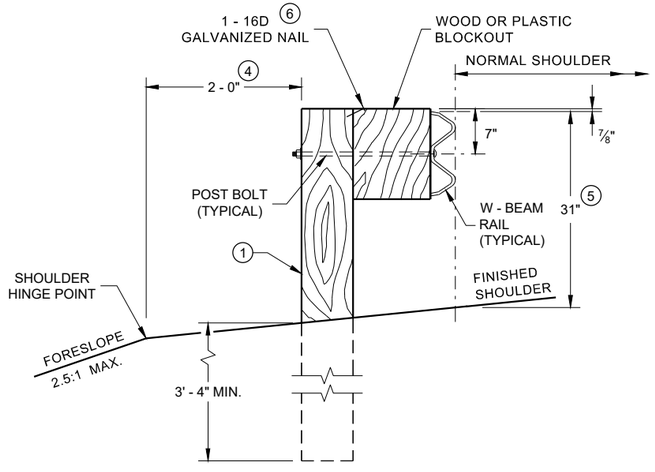
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



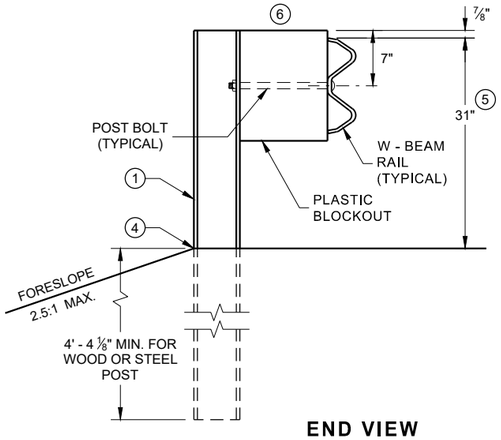
WOOD POST (6" X 8") NOMINAL (1)



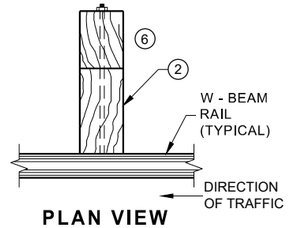
END VIEW
LOCATED ALONG A CURBED ROADWAY



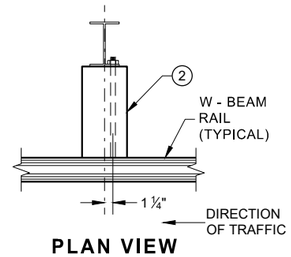
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



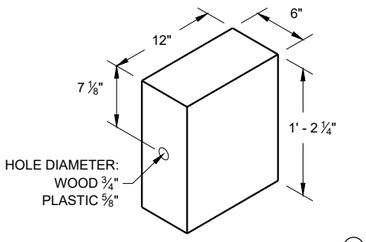
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

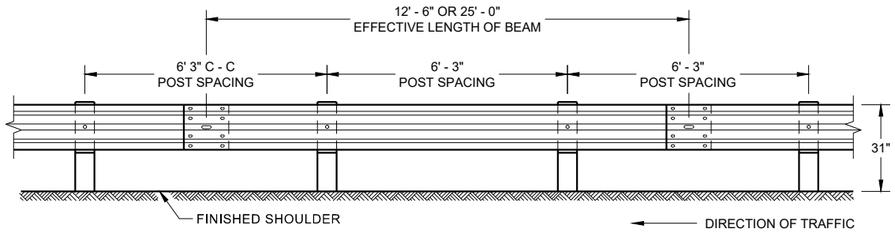
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

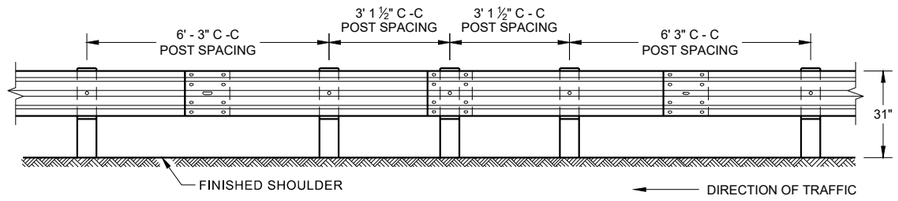
SDD 14B42 - 06a

6

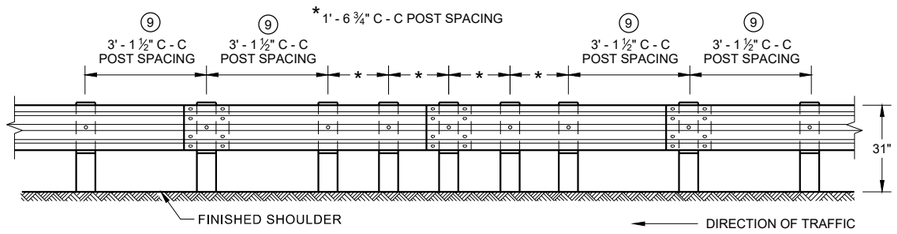
SDD 14B42 - 06a



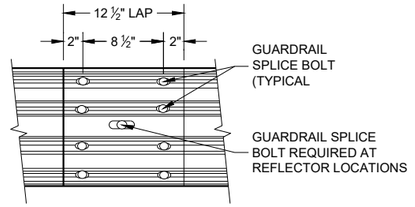
FRONT VIEW
POST SPACING STANDARD INSTALLATION



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



FRONT VIEW
QUARTER POST SPACING (QS)



FRONT VIEW
MID-SPAN BEAM SPLICE

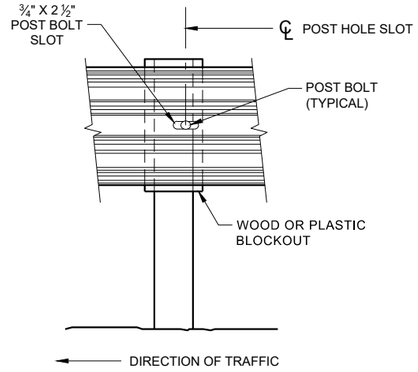
GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

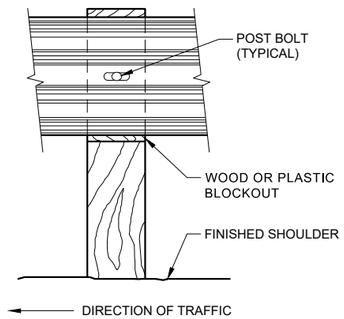
⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ¾" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

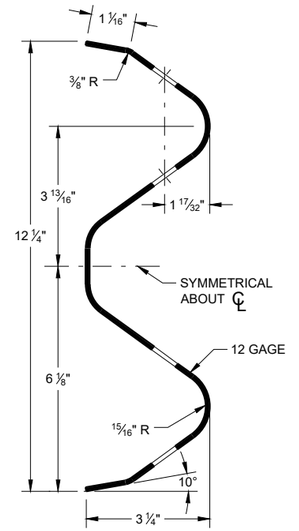
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



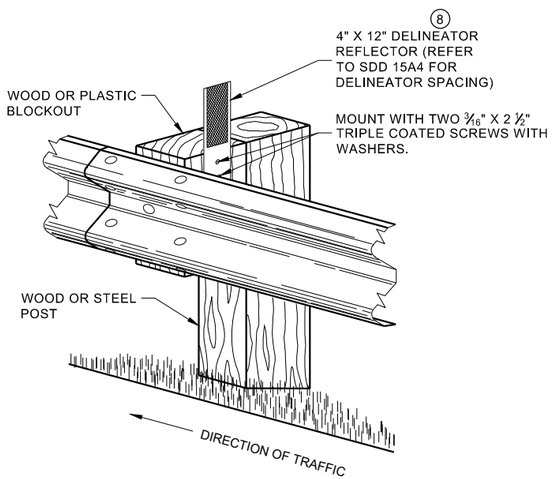
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL

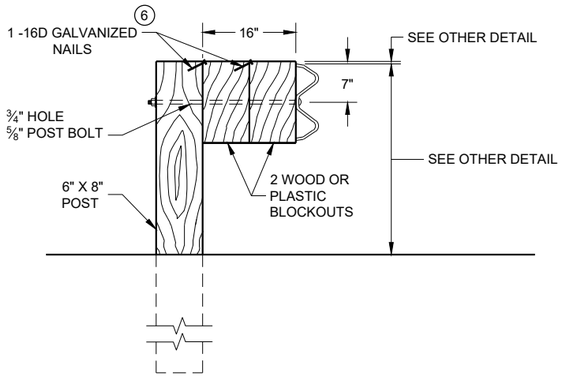


ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

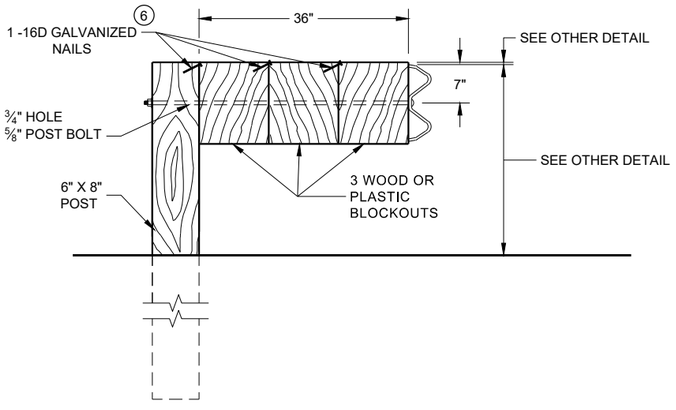
STATE OF WISCONSIN
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6
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DETAIL FOR 16" BLOCKOUT DEPTH

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



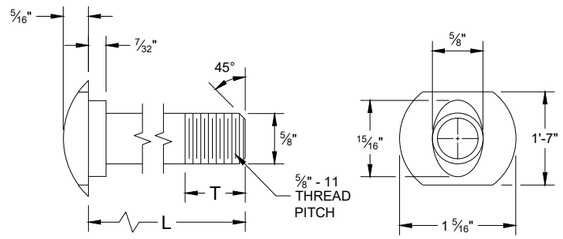
DETAIL FOR 36" BLOCKOUT DEPTH

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

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

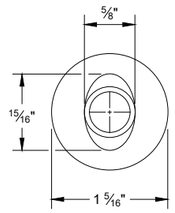
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3/16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

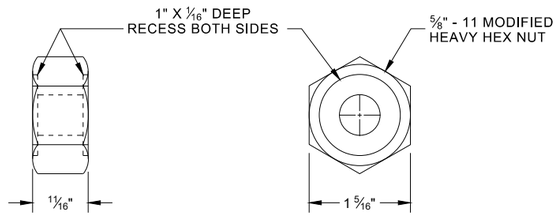


POST BOLT TABLE

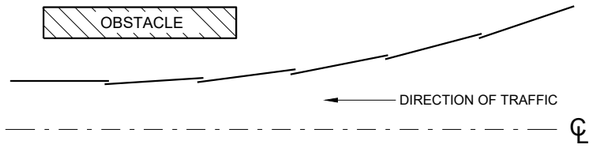
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



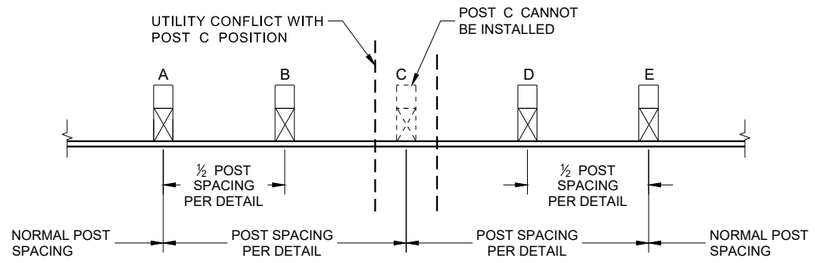
ALTERNATE BOLT HEAD



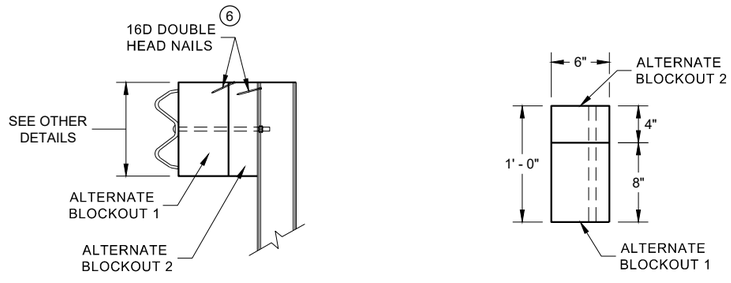
POST BOLT, SPLICE BOLT AND RECESS NUT



PLAN VIEW
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



ALTERNATE WOOD BLOCKOUT DETAIL

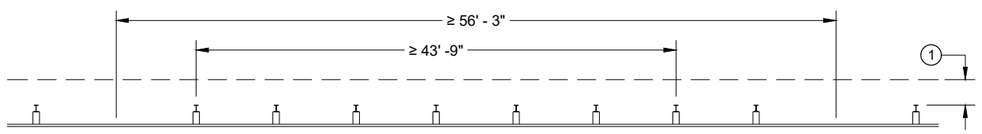
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

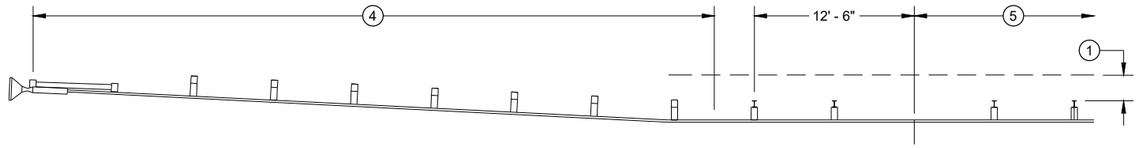
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DEPARTMENT OF TRANSPORTA

6

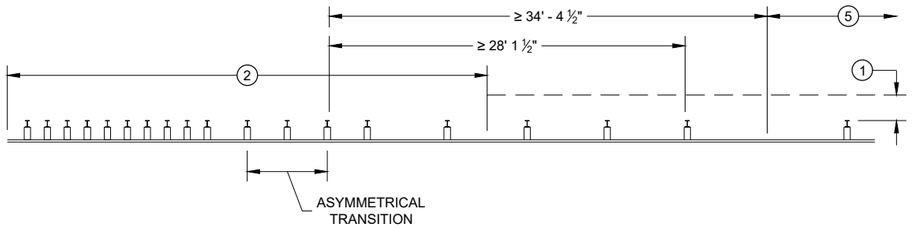
SDD 14B42 - 06c



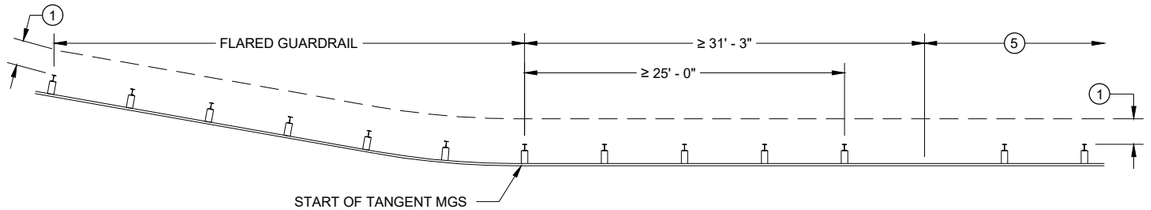
MISSING POST IN NORMAL BEAM GUARD RUN



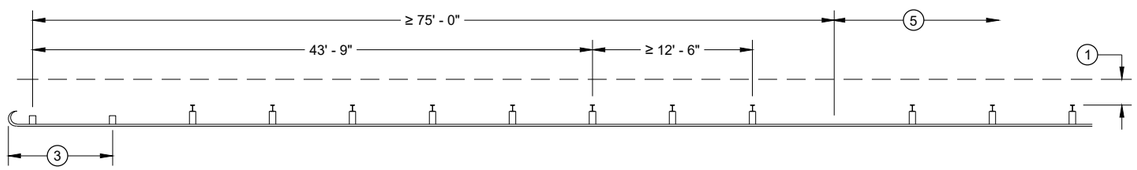
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



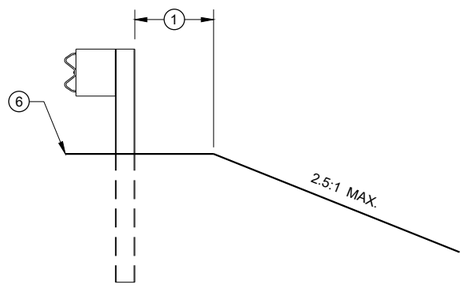
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



MISSING POST IN NORMAL BEAM GUARD RUN NEAR FLARED BEAM GUARD



MISSING POST IN NORMAL BEAM GUARD RUN NEAR TYPE 2 TERMINAL



CROSS SECTION VIEW

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

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

710

6

SDD 14B42 - 06d

6

SDD 14B42 - 06d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

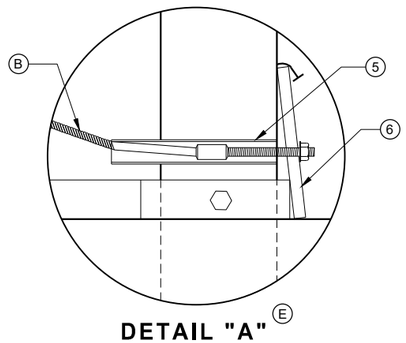
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

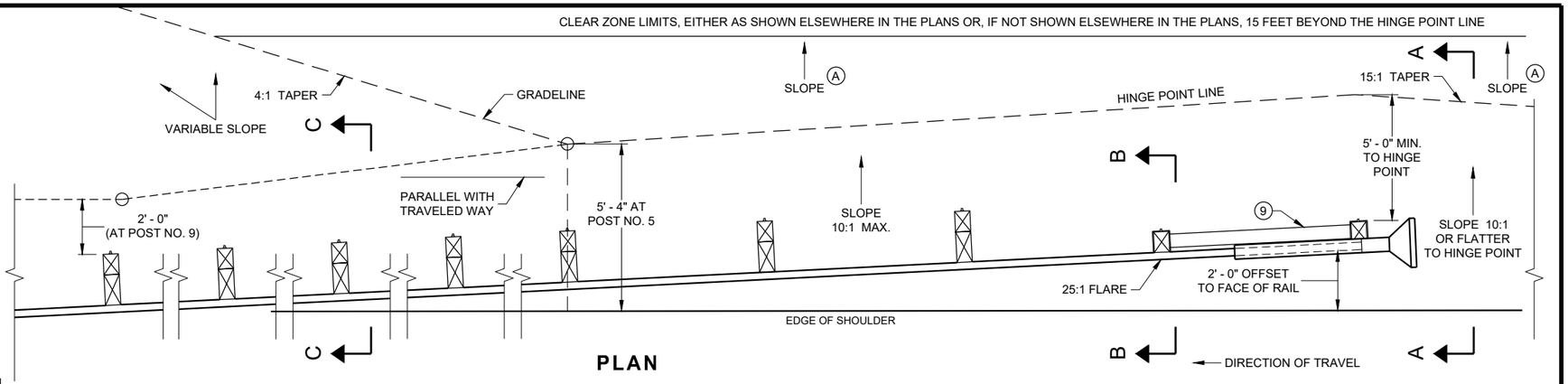
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

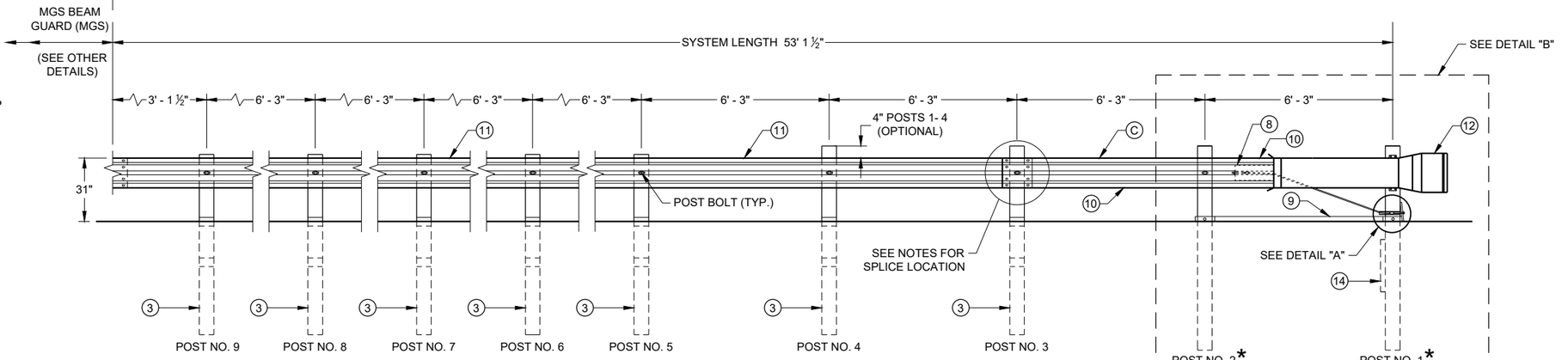
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



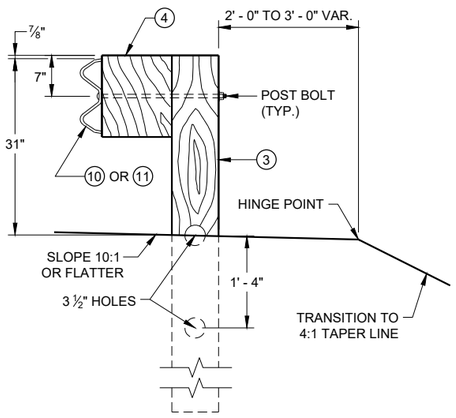
DETAIL "A" (E)



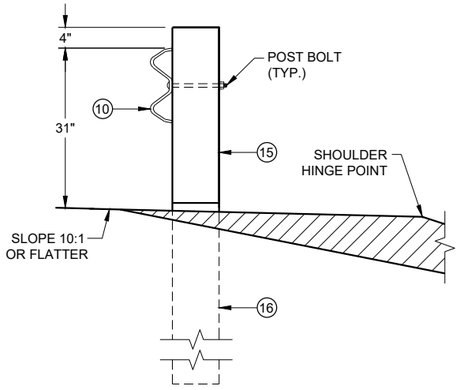
PLAN



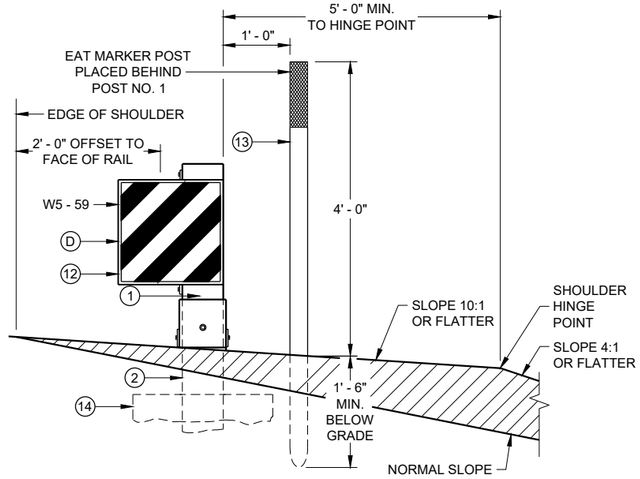
ELEVATION



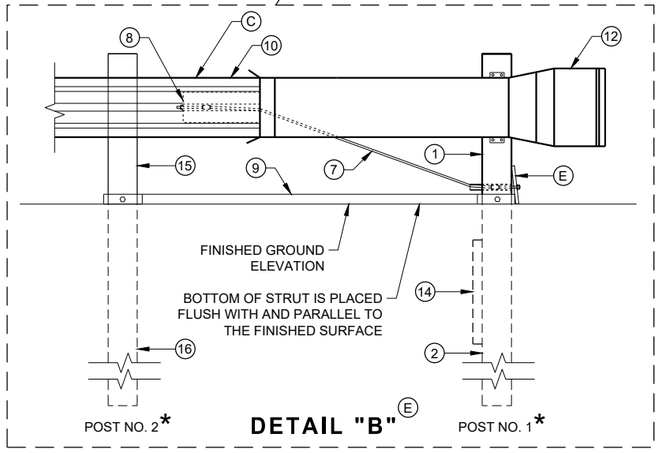
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

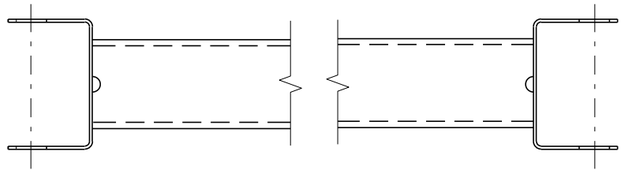
711

SDD 14B44 - 04a

SDD 14B44 - 04a

6

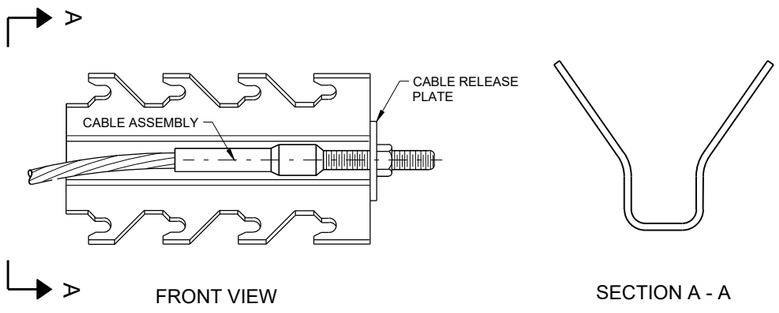
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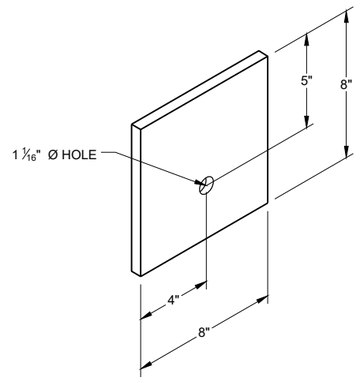
GENERIC GROUND STRUT (9) (E)

BILL OF MATERIALS

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



GENERIC ANCHOR CABLE BOX (9) (E)



BEARING PLATE (6) (E)

6

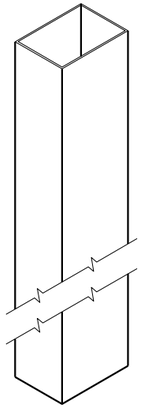
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SDD 14B44 - 04b

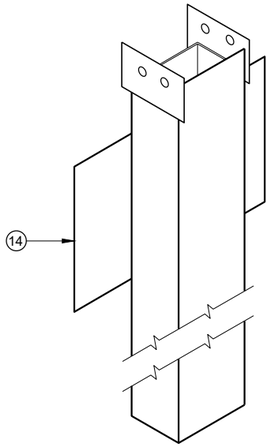
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

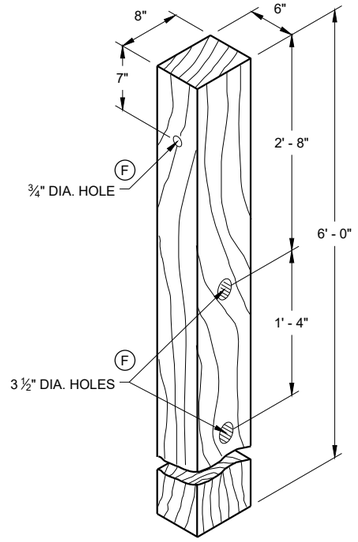
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



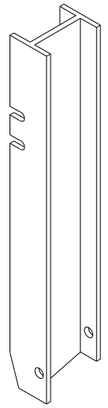
UPPER POST NO. 1 (1) (E)



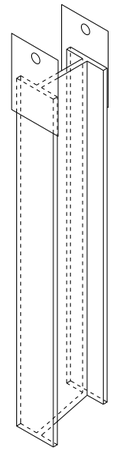
LOWER POST NO. 1 (2) (E)



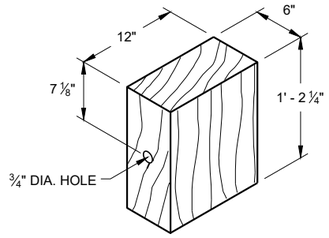
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



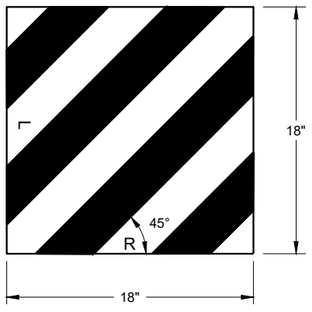
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

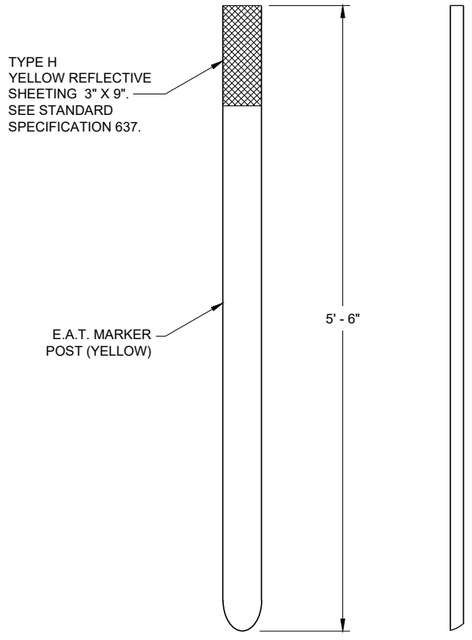


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2

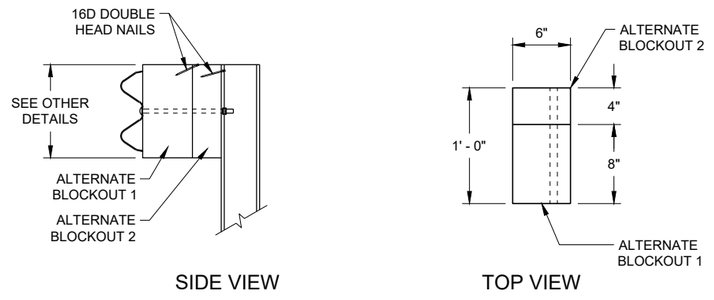


W5 - 59

REFLECTIVE SHEETING DETAIL (E)



E.A.T. MARKER POST (13)



ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

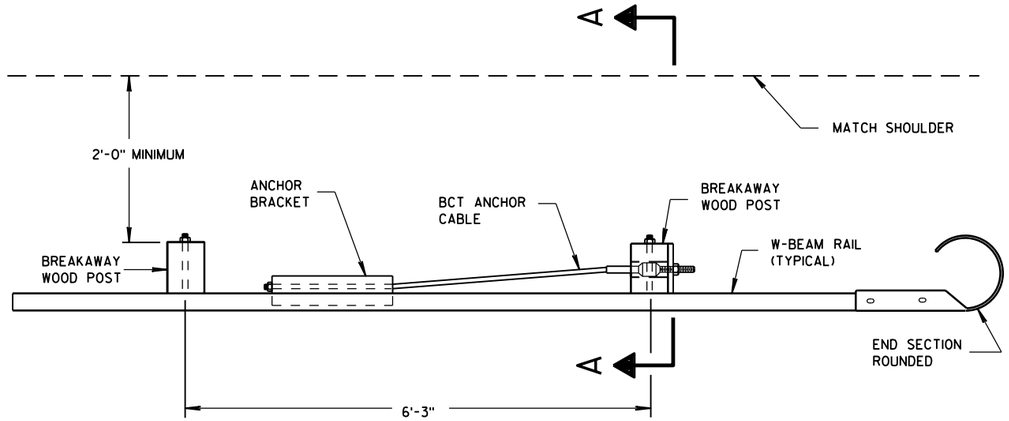
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

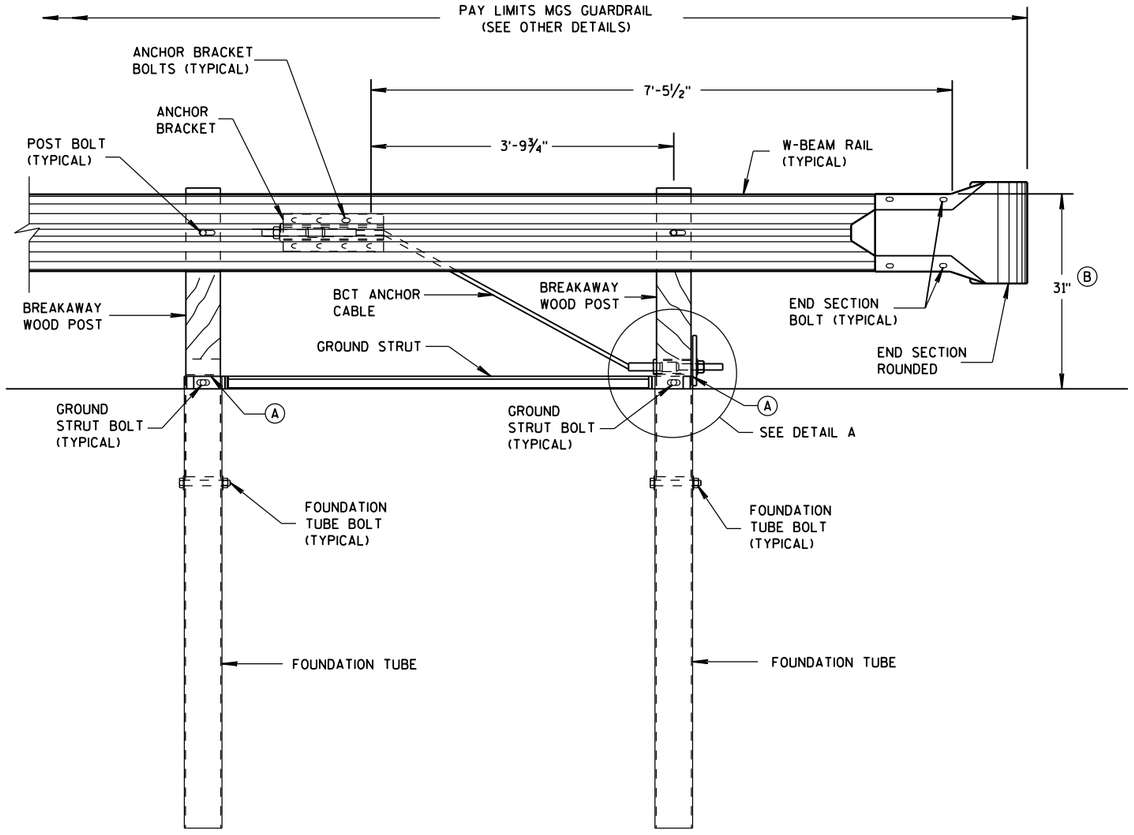
FHWA

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SDD 14B44 - 04c

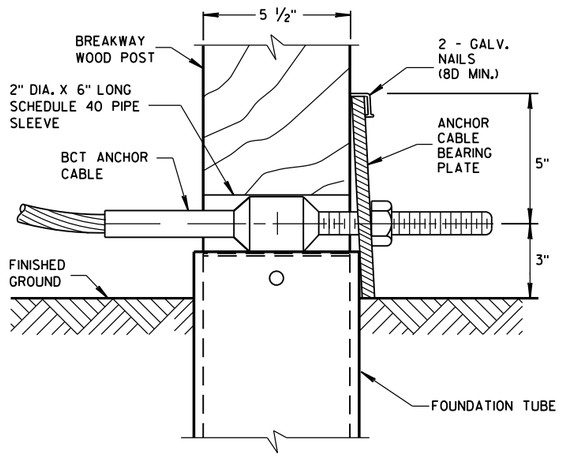


PLAN VIEW



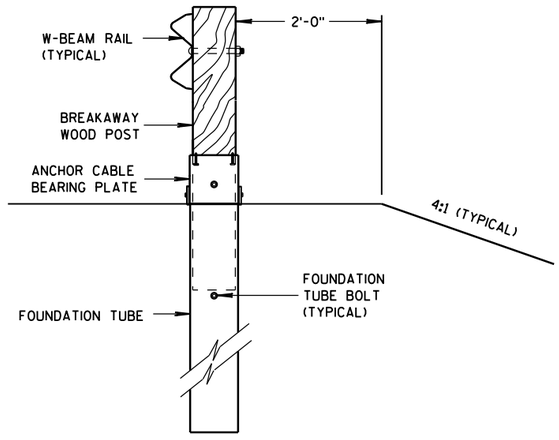
FRONT VIEW

END RAIL DETAIL



DETAIL A

POST NO. 1
GROUNG STRUT NOT SHOWN FOR CLARITY.



SECTION A-A

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

END SECTION BOLTS AND NUTS HAVE THE SAME MATERIAL REQUIREMENTS AS SPLICE BOLTS.

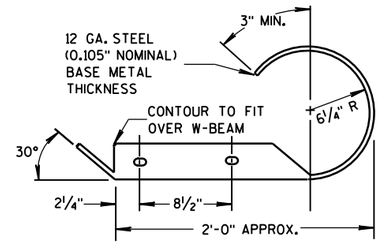
FOUNDATION TUBE BOLTS ARE ⅞" DIAMETER ASTM A307 HEX HEAD BOLT. FOUNDATION TUBE BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅞" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

ANCHOR BRACKET AND GROUND STRUT BOLTS ARE A ⅝" DIAMETER ASTM A307 HEX HEAD BOLT. ANCHOR BRACKET BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅝" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

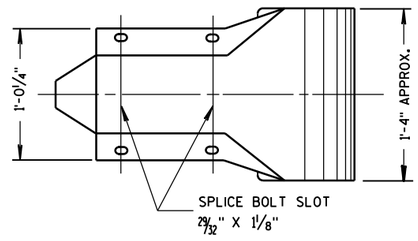
W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

(A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.

(B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1".
FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27¾" TO 32" ± 1".



PLAN VIEW

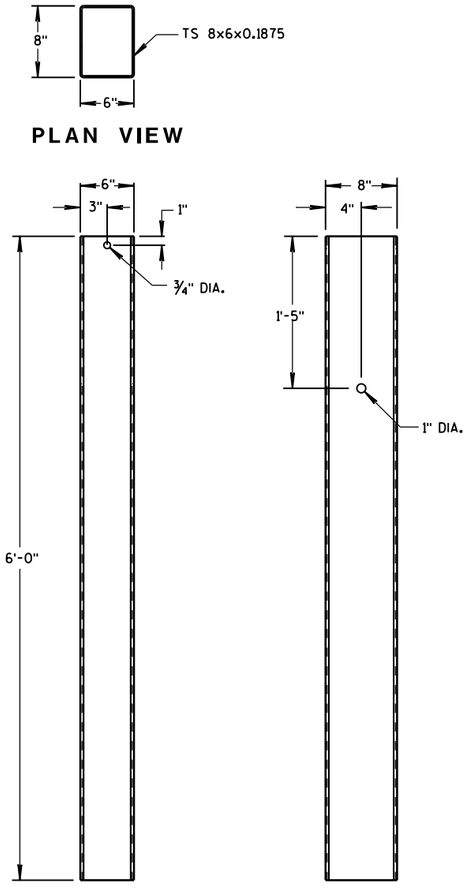


FRONT VIEW

W BEAM END
SECTION ROUNDED

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

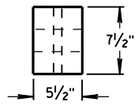
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO



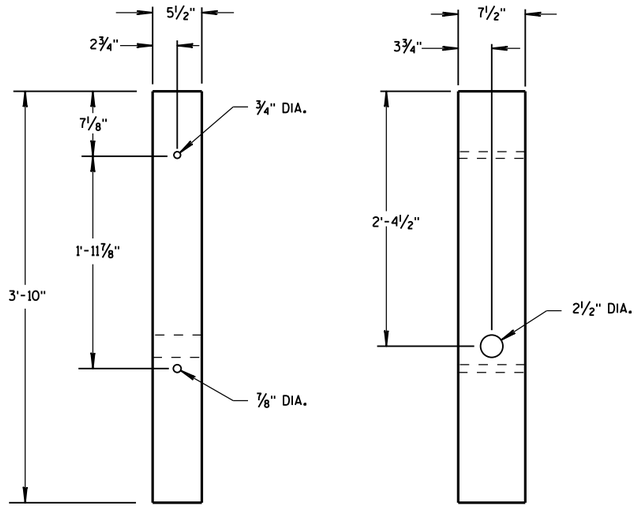
PLAN VIEW

FRONT VIEW SIDE VIEW

FOUNDATION TUBE



PLAN VIEW

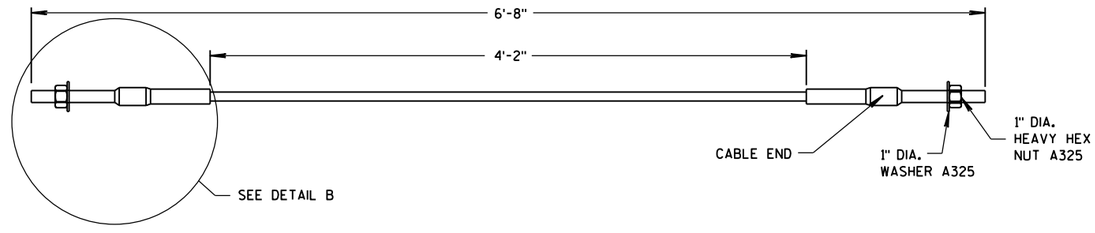


FRONT VIEW SIDE VIEW

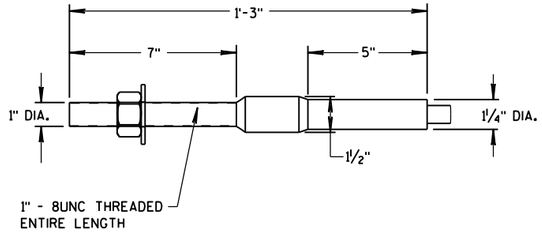
BREAKAWAY WOOD POST

GENERAL NOTES

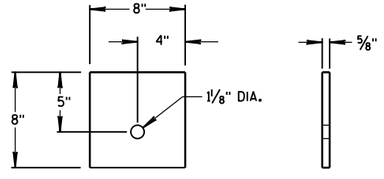
BCT ANCHOR CABLE IS A ¾" DIAMETER 6X19 IWRC IPS GALVANIZED WIRE ROPE. THE SWAGED FITTINGS AND STUD ARE REQUIRED. END FITTING SHALL BE MACHINED FROM HOT-ROLLED CARBON STEEL CONFORMING TO ASTM A576 GRADE 1035 AND GALVANIZED ACCORDING TO ASTM A123. TREADED STUD SHALL CONFORM TO ASTM A325 OR SAE GRADE 5. MINIMUM BREAKING STRENGTH OF WIRE ROPE IS 43,000 LB. WIRE ROPE IS TO BE TAUT.



BCT ANCHOR CABLE



DETAIL B



SIDE VIEW FRONT VIEW

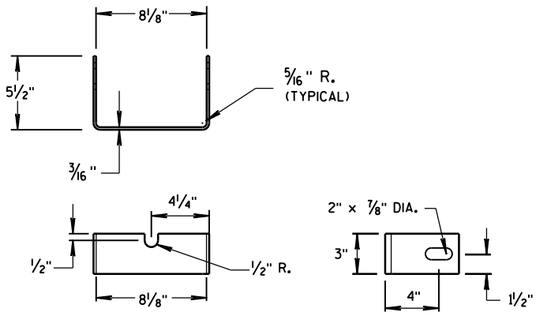
ANCHOR CABLE
BEARING PLATE

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

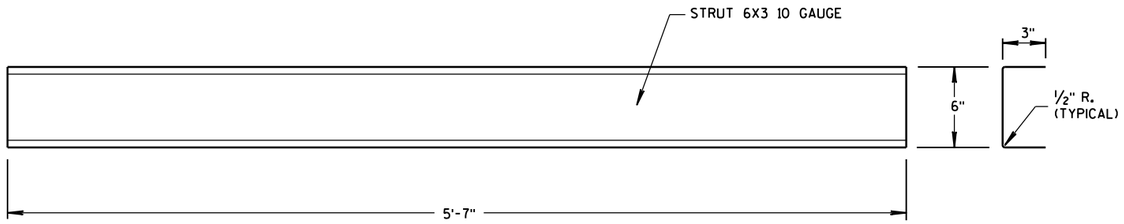
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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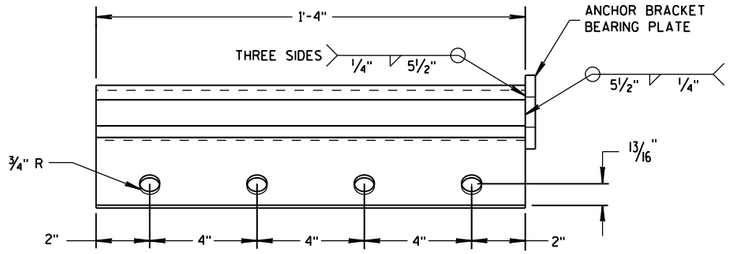
S.D.D. 14 B 47-2b

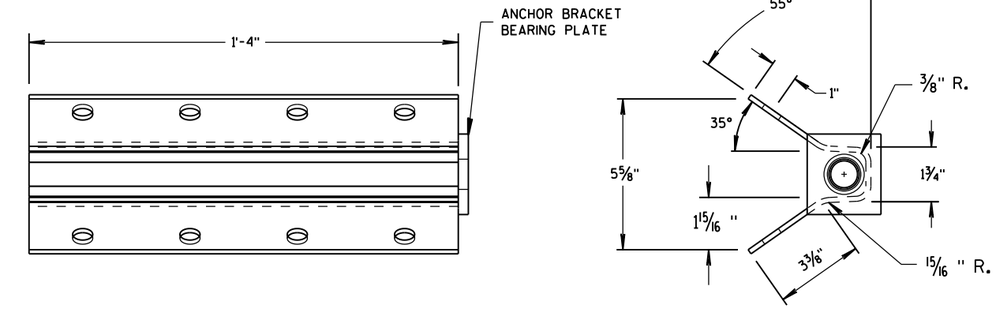


YOKE DETAIL

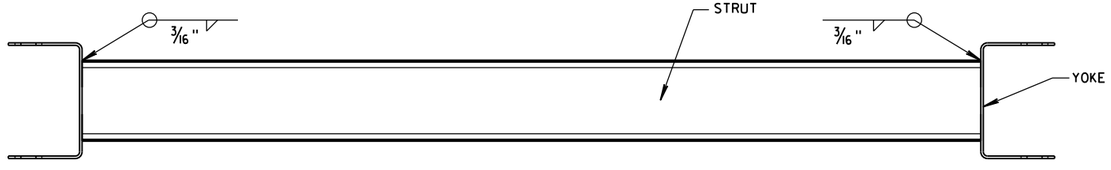


STRUT DETAIL

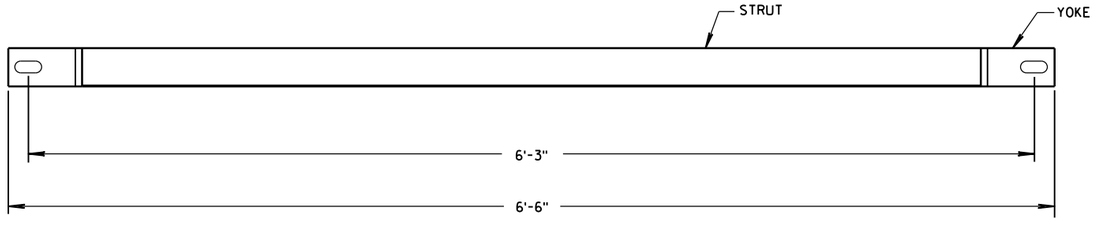




ANCHOR BRACKET

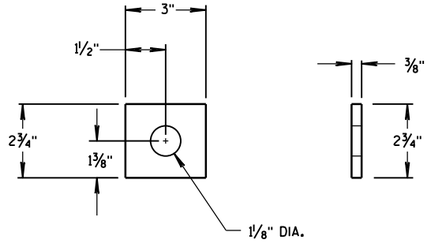


PLAN VIEW



FRONT VIEW

GROUND STRUT DETAIL



ANCHOR BRACKET BEARING PLATE

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

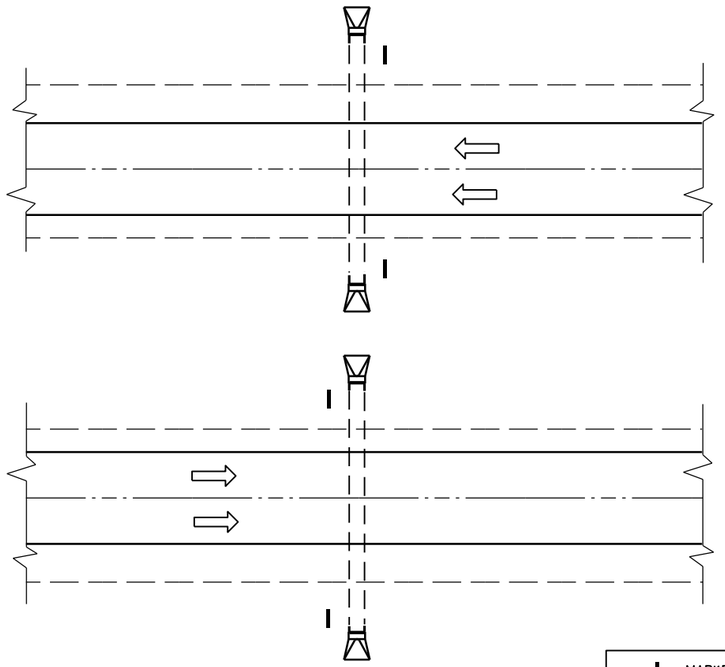
APPROVED
June 2014
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

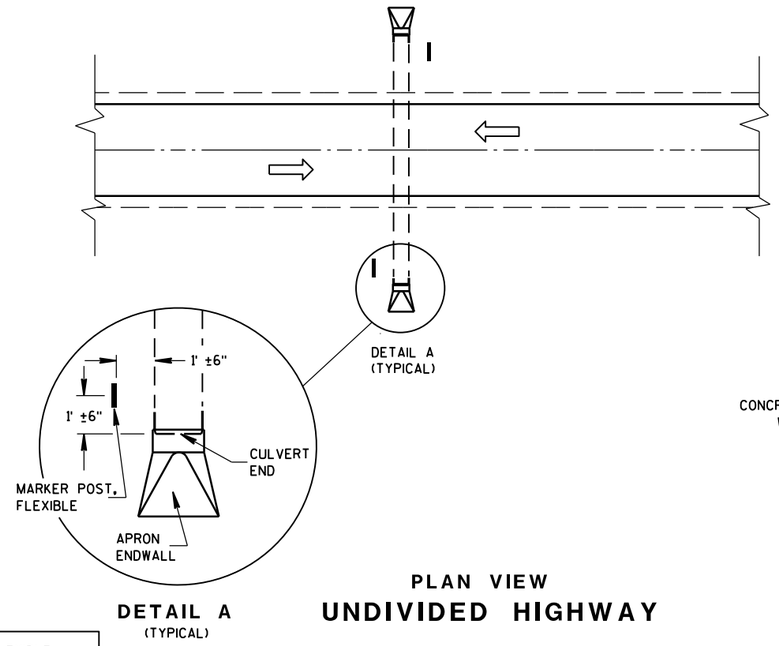
6

S.D.D. 14 B 47-2c



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

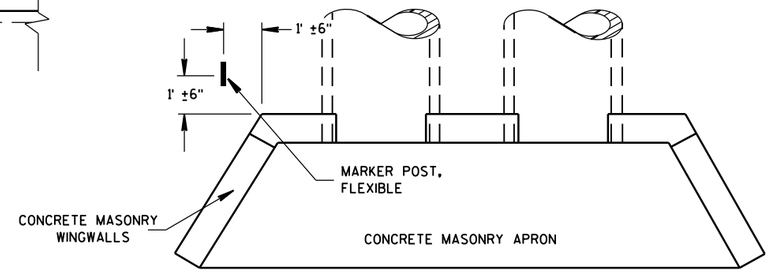
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

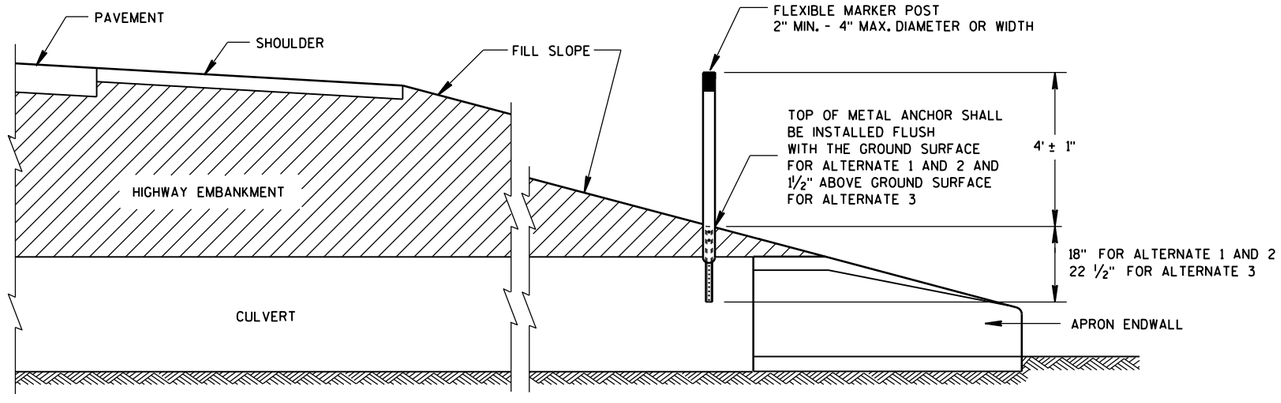
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

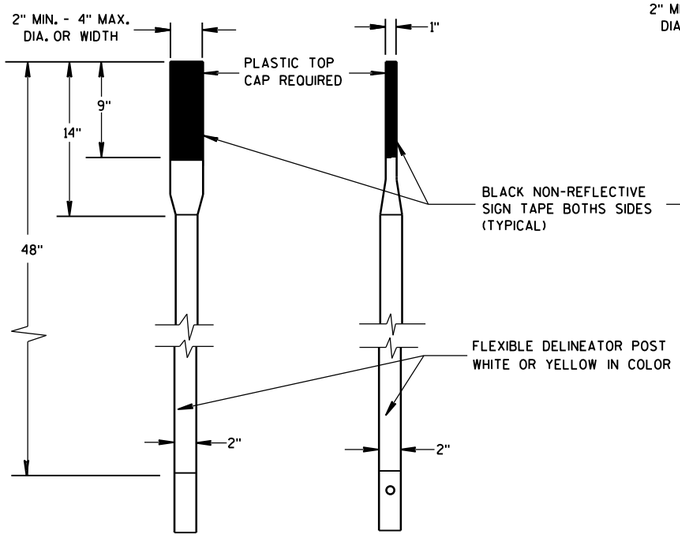
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

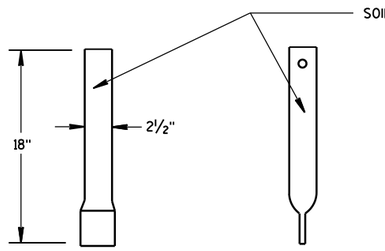
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S.D.D. 15 A 3-2a

6

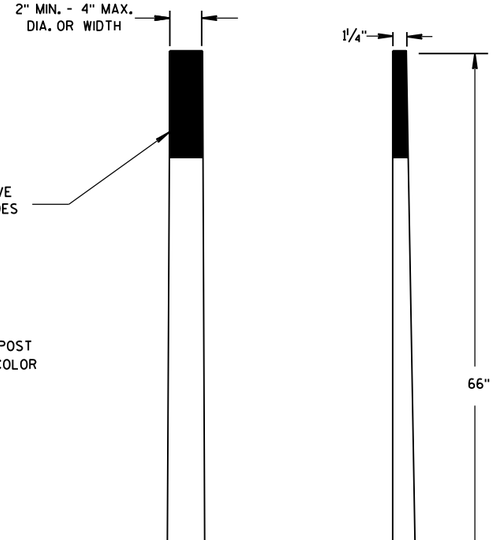
S.D.D. 15 A 3-2a





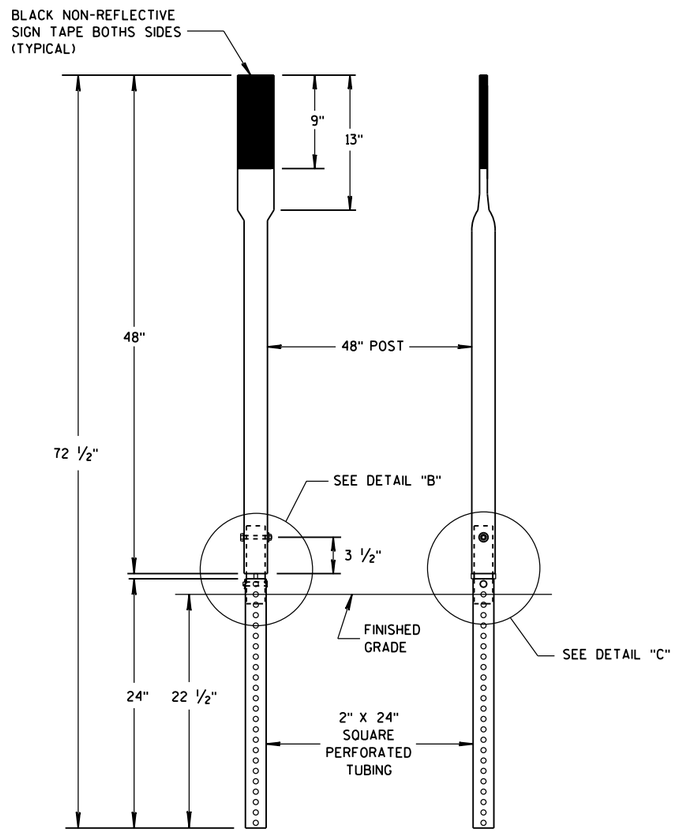
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

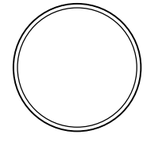
ALTERNATE 2



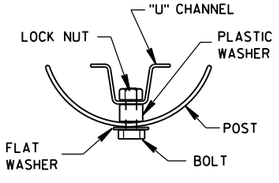
FRONT VIEW SIDE VIEW

ALTERNATE 3

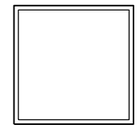
FLEXIBLE MARKER POSTS



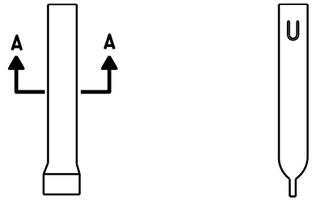
SECTION A-A



SECTION B-B

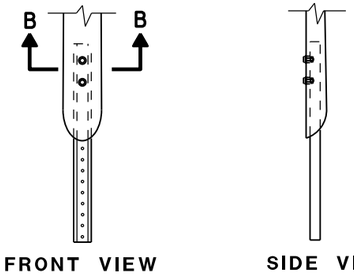


SECTION C-C



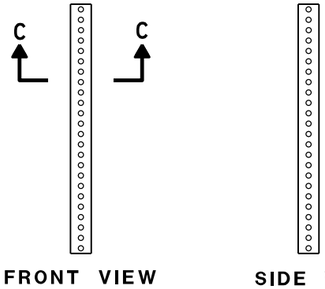
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

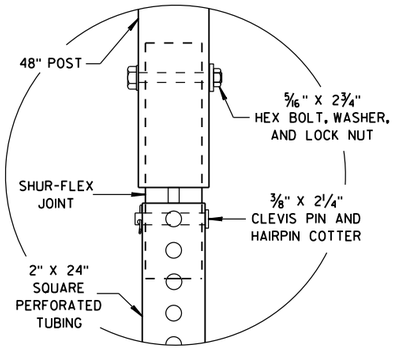
ALTERNATE 2



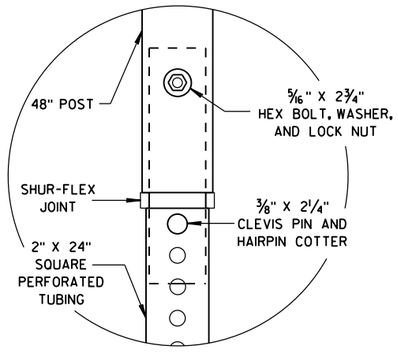
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

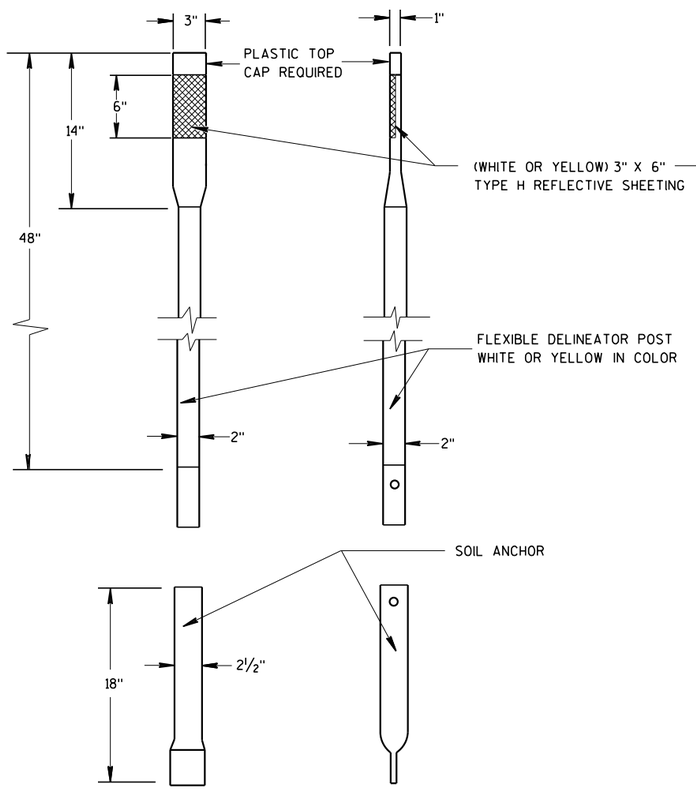
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
718 IGN
FHWA

6

S.D.D. 15 A 3-2b

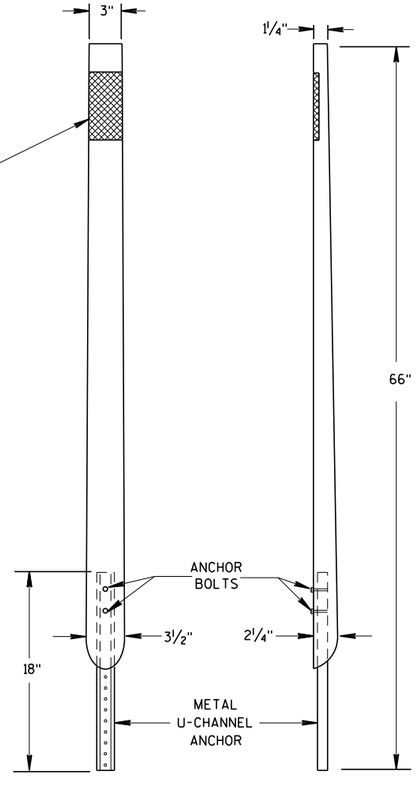
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S.D.D. 15 A 3-2b



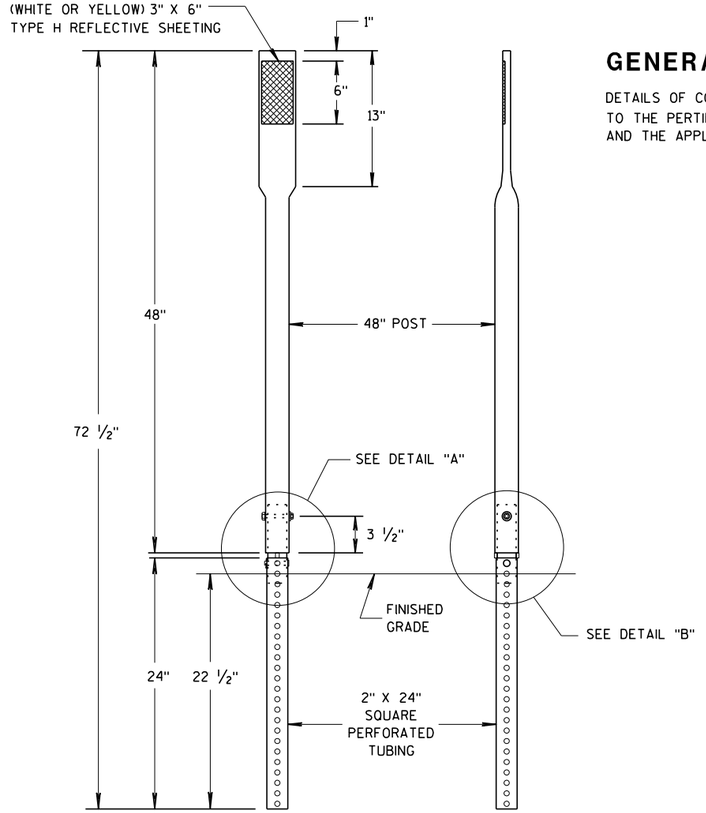
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2
FLEXIBLE DELINEATOR POSTS

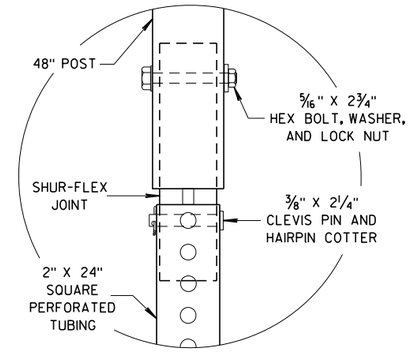


FRONT VIEW SIDE VIEW

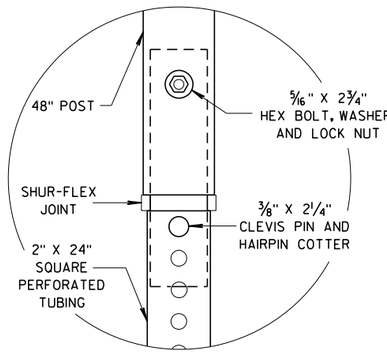
ALTERNATE 3

GENERAL NOTES

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



DETAIL A

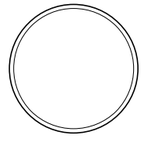


DETAIL B

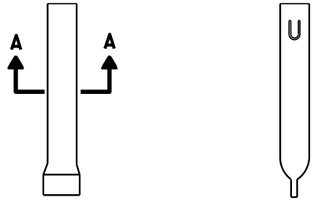
REFLECTOR SPACING TABLE

REFLECTOR SPACING	LOCATION
*100' C-C	RAMPS
400' C-C	MAINLINE

*START AT BEGINNING OF RAMP TAPER AND END AT END OF RAMP TAPER

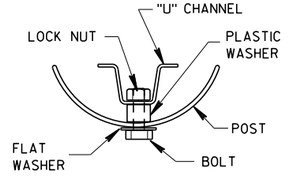


SECTION A-A

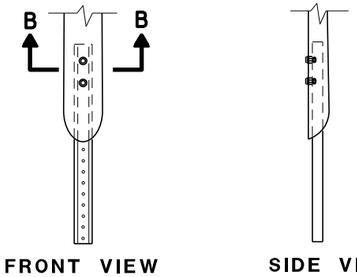


FRONT VIEW SIDE VIEW

ALTERNATE 1

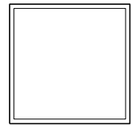


SECTION B-B

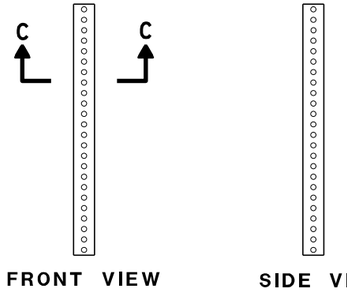


FRONT VIEW SIDE VIEW

ALTERNATE 2
FLEXIBLE MARKER POST ANCHORS



SECTION C-C



FRONT VIEW SIDE VIEW

ALTERNATE 3

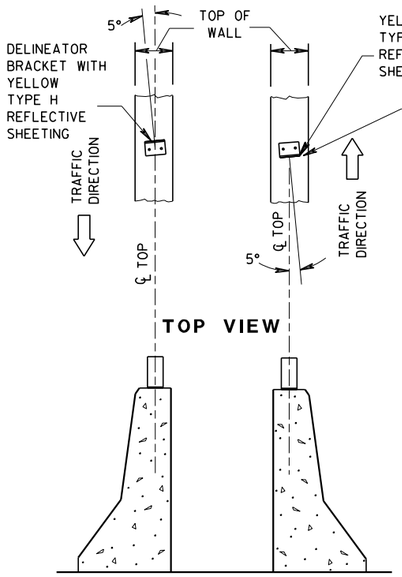
FLEXIBLE DELINEATOR POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

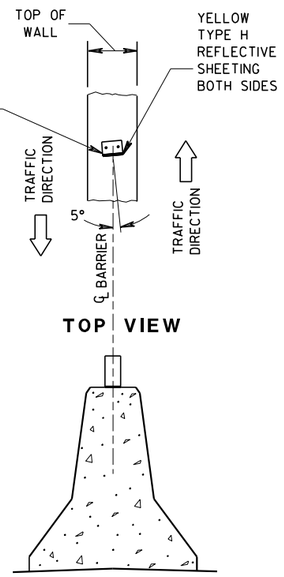
APPROVED
March 2018 — DATE
/S/ Matt Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

6

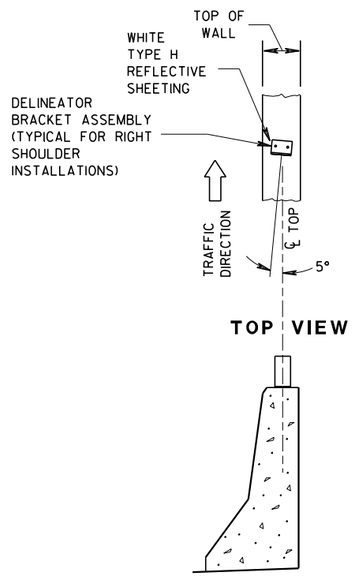
S.D.D. 15 A 4-4a



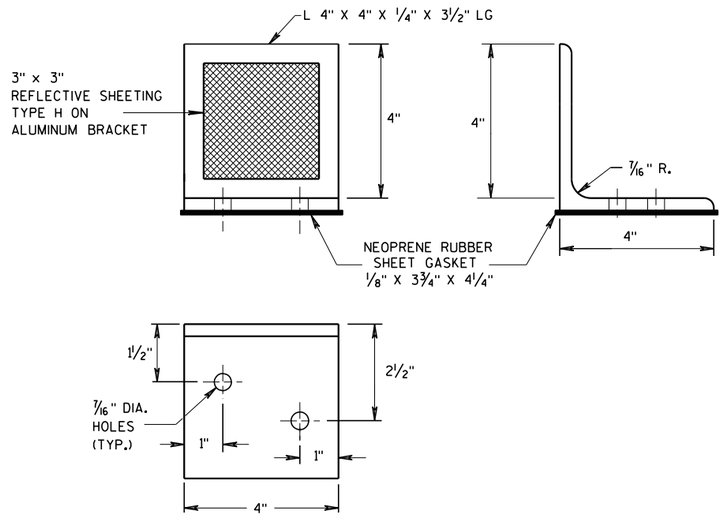
DOUBLE BARRIERS IN MEDIAN



MEDIAN BARRIER



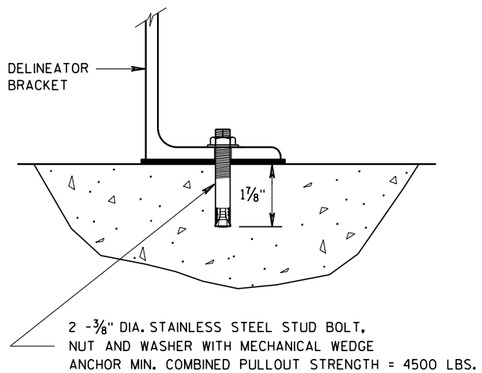
BARRIER LOCATED
TO RT. OF TRAFFIC FLOW



DELINEATOR BRACKET

DOUBLE BARRIERS IN MEDIAN | MEDIAN BARRIER | BARRIER LOCATED TO RT. OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR DELINEATOR BRACKETS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET
MOUNTING DETAIL

REFLECTOR SPACING TABLE

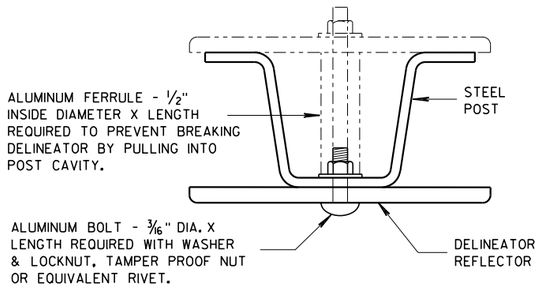
REFLECTOR SPACING	MINIMUM NUMBER OF REFLECTORS
100' C-C	3

DELINEATOR BRACKET WITH REFLECTIVE SHEETING

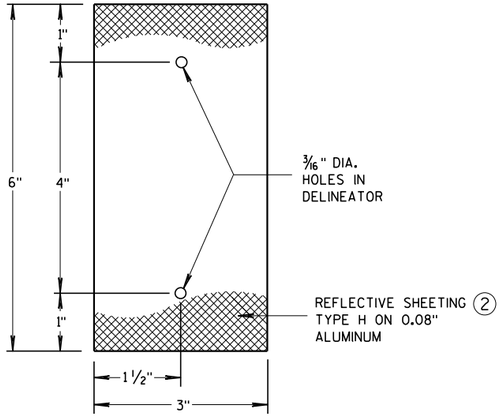
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Matthew P. Rauch
STATE SIGNING AND M. 720 NGINEER
FHWA

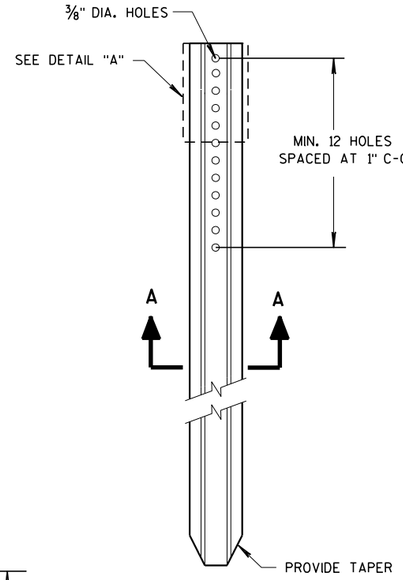
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S.D.D. 15 A 4-4b



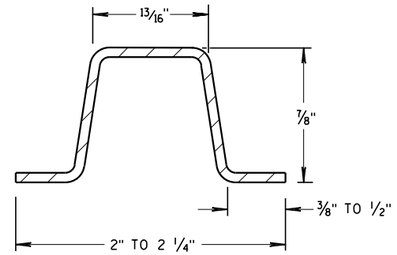
MOUNTING DETAIL FOR DELINEATOR REFLECTOR



DETAIL "A" 3" X 6" DELINEATOR REFLECTOR



DELINEATOR POST



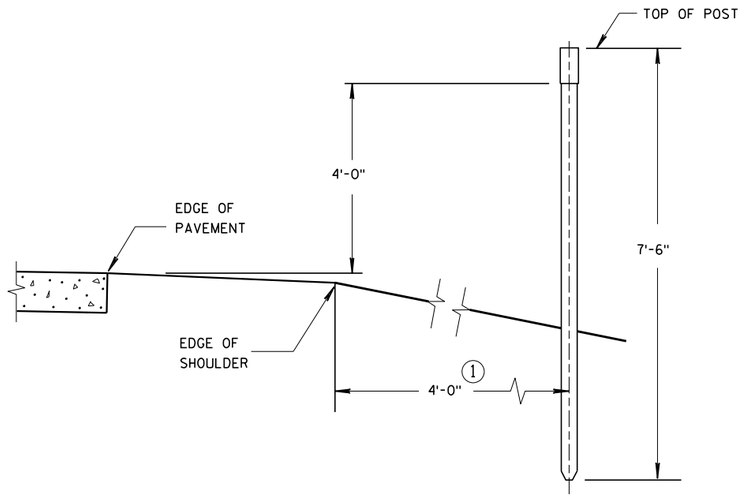
SECTION A-A

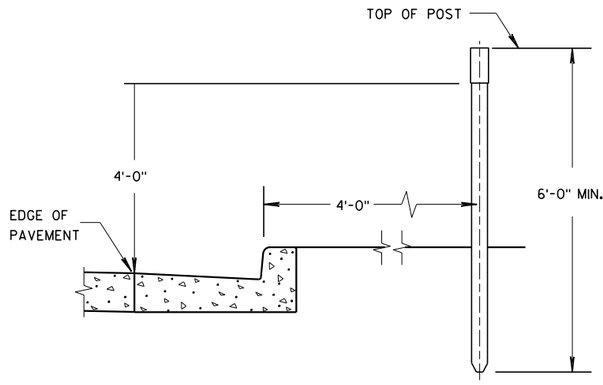
WEIGHT 1.12 LBS PER FT. ± 0.1 LB.

REFLECTOR SPACING TABLE

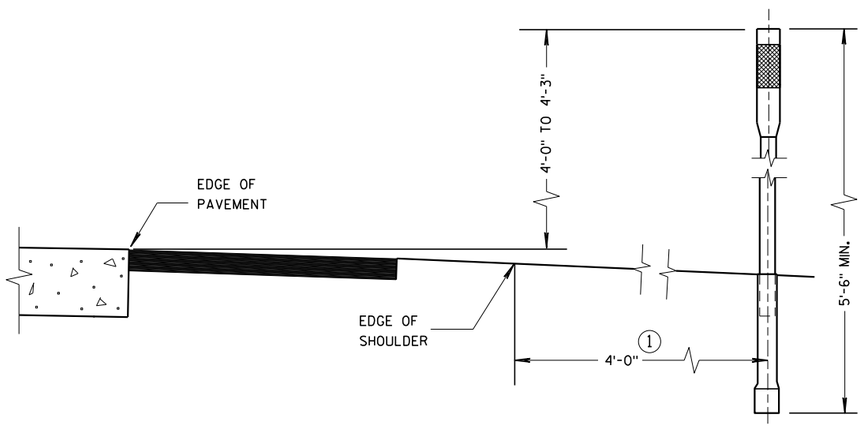
REFLECTOR SPACING	LOCATION
400'	MAINLINE
100'	RAMPS *

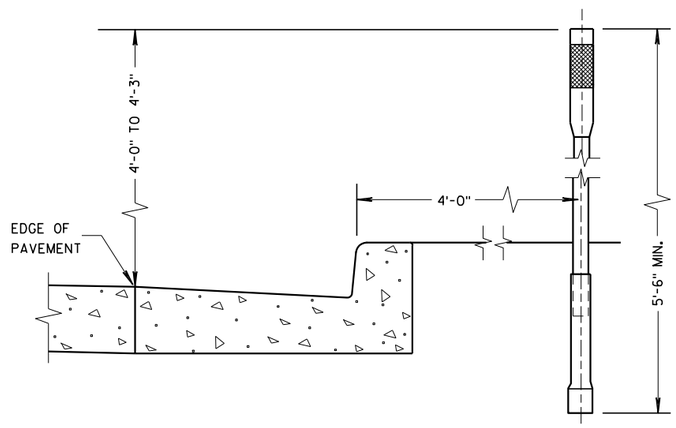
* START AT BEGINNING OF RAMP TAPER AND END AT END OF RAMP TAPER.





TYPICAL INSTALLATIONS OF DELINEATOR POSTS





TYPICAL INSTALLATIONS OF FLEXIBLE DELINEATOR POSTS

GENERAL NOTES

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

(1) DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.

(2) FURNISH TYPE H SHEETING FROM THE APPROVED PRODUCTS LIST.

DELINEATOR POST WITH REFLECTIVE SHEETING

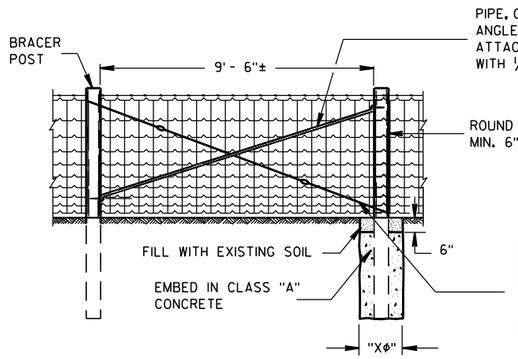
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — /S/ Matthew P Rauch
DATE — STATE SIGNING AND M[illegible]NGINEER
FHWA

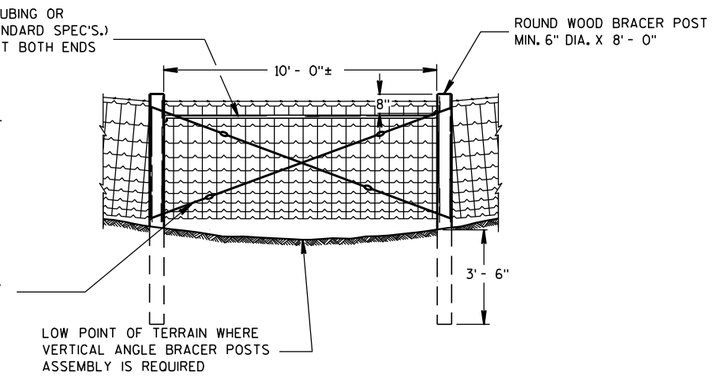
6
S.D.D. 15 A 4-4c

NOTE: PULL OR STRETCHER POST ASSEMBLIES SHALL BE PLACED MIDWAY BETWEEN END POSTS AND CORNER POSTS WHERE A RUN OF FENCE EXCEEDS 660' BUT IS LESS THAN 1,320'. FOR RUNS OF FENCE IN EXCESS OF 1,320' MAXIMUM SPACING OF PULL OR STRETCHER POST ASSEMBLIES SHALL BE 660'± C-C.

ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



PULL OR STRETCHER POSTS ASSEMBLY



VERTICAL ANGLE BRACER POSTS ASSEMBLY

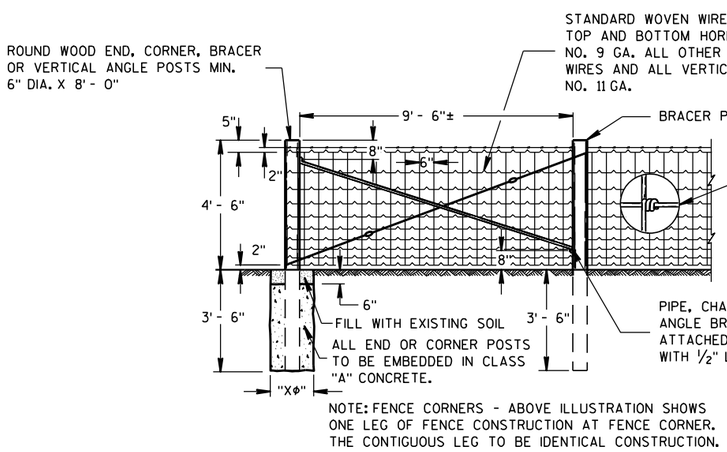
GENERAL NOTES

"XΦ" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VERTICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

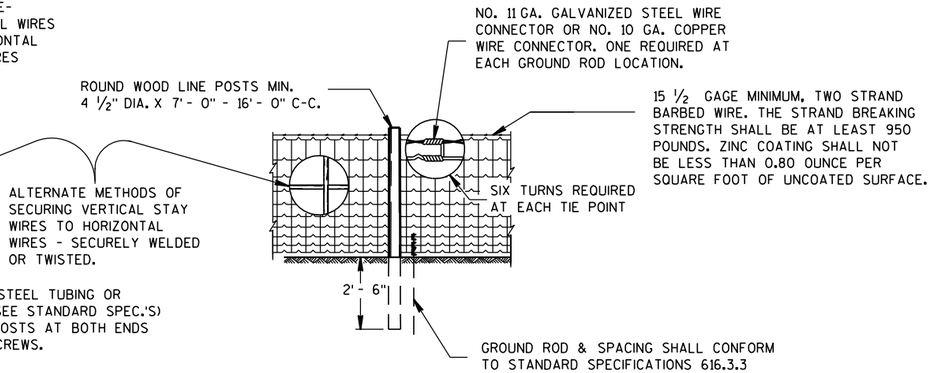
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.



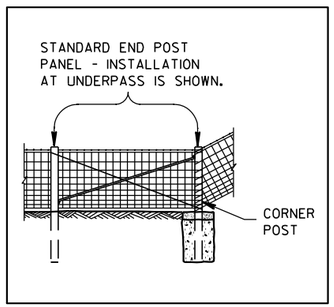
NOTE: FENCE CORNERS - ABOVE ILLUSTRATION SHOWS ONE LEG OF FENCE CONSTRUCTION AT FENCE CORNER. THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.

END OR CORNER POSTS ASSEMBLY

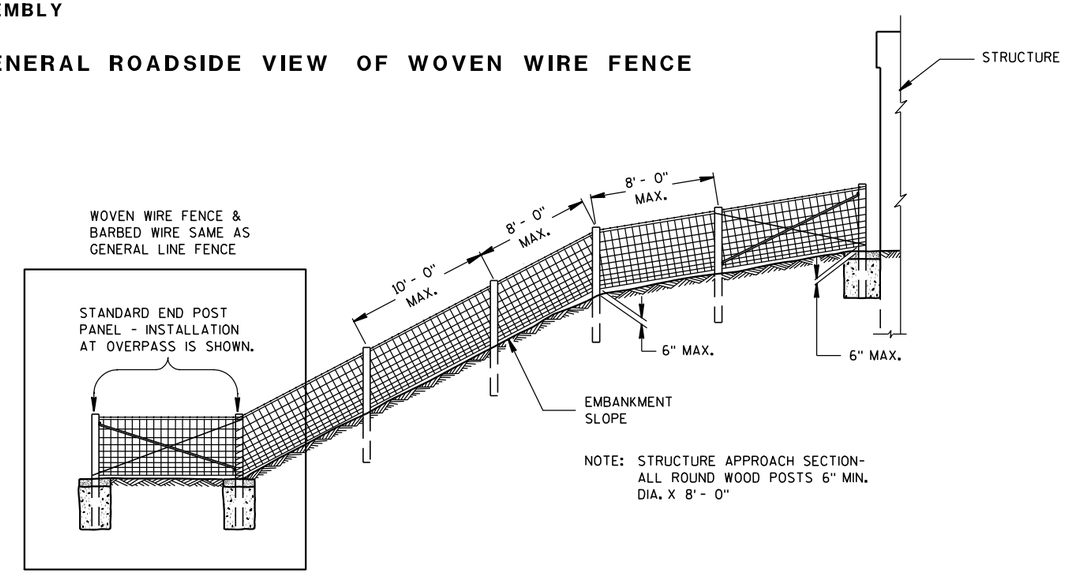


LINE FENCE CONSTRUCTION

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



NOTE: STRUCTURE APPROACH SECTION- ALL ROUND WOOD POSTS 6" MIN. DIA. X 8' - 0"

FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

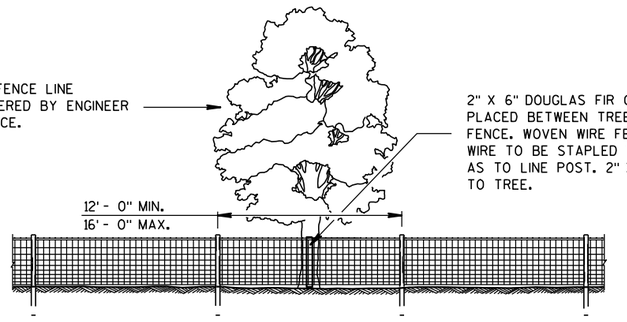
S.D.D. 15 B 1-8a

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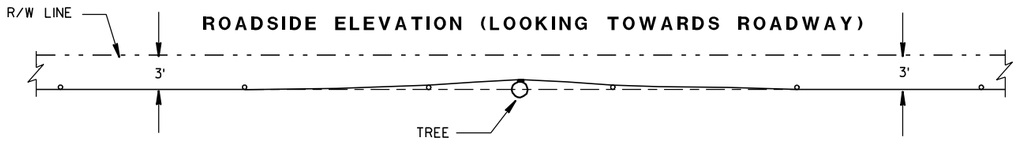
S.D.D. 15 B 1-8a

NOTE: TREE IN NORMAL FENCE LINE SPECIFICALLY ORDERED BY ENGINEER TO REMAIN IN PLACE.

2" X 6" DOUGLAS FIR OR SO. YELLOW PINE PLACED BETWEEN TREE AND WOVEN WIRE FENCE. WOVEN WIRE FENCE AND BARBED WIRE TO BE STAPLED TO 2" X 6" LIKE AS TO LINE POST. 2" X 6" NOT FASTENED TO TREE.

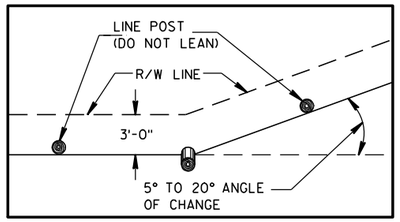


ROADSIDE ELEVATION (LOOKING TOWARDS ROADWAY)

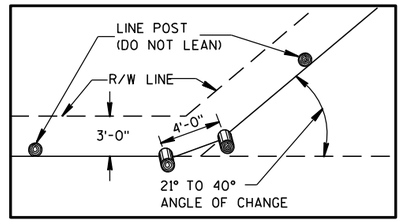


PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



PLAN VIEW
SINGLE POST CORNER

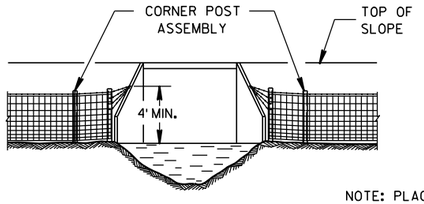


PLAN VIEW
DOUBLE POST CORNER

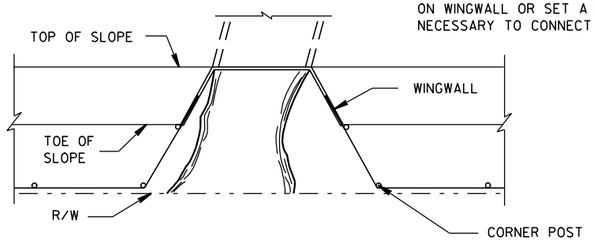
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

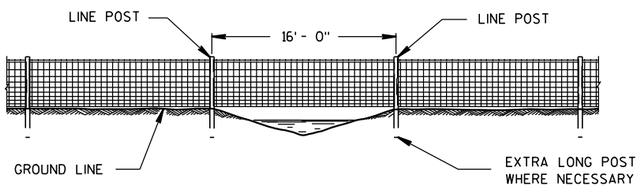
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



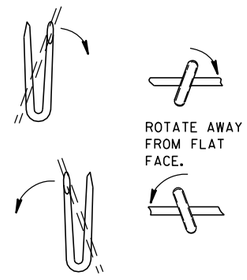
NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



FENCE INSTALLATION TO WINGWALLS

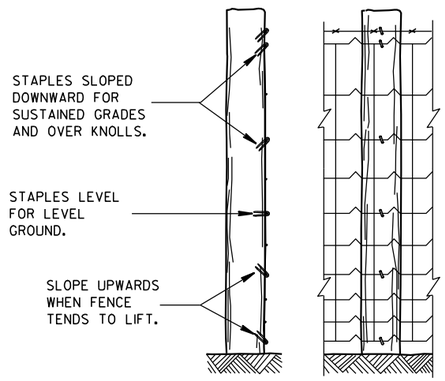


FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH



LINE POST

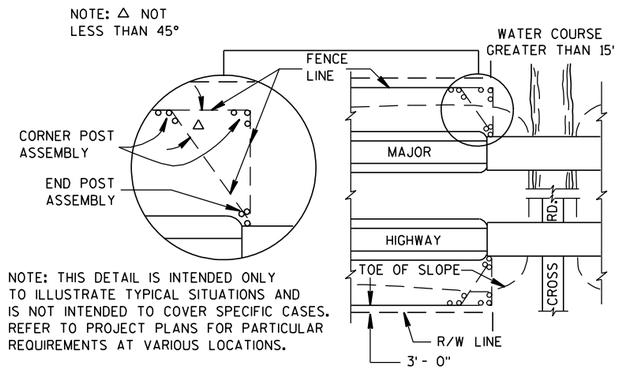
NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.



END ELEVATION — FARM SIDE ELEVATION

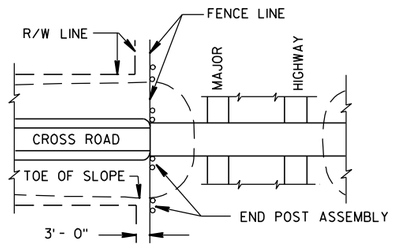
FENCE MOUNTING DETAIL

NOTE: △ NOT LESS THAN 45°



NOTE: THIS DETAIL IS INTENDED ONLY TO ILLUSTRATE TYPICAL SITUATIONS AND IS NOT INTENDED TO COVER SPECIFIC CASES. REFER TO PROJECT PLANS FOR PARTICULAR REQUIREMENTS AT VARIOUS LOCATIONS.

PLAN VIEW
MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW
MAJOR HIGHWAY UNDERPASS

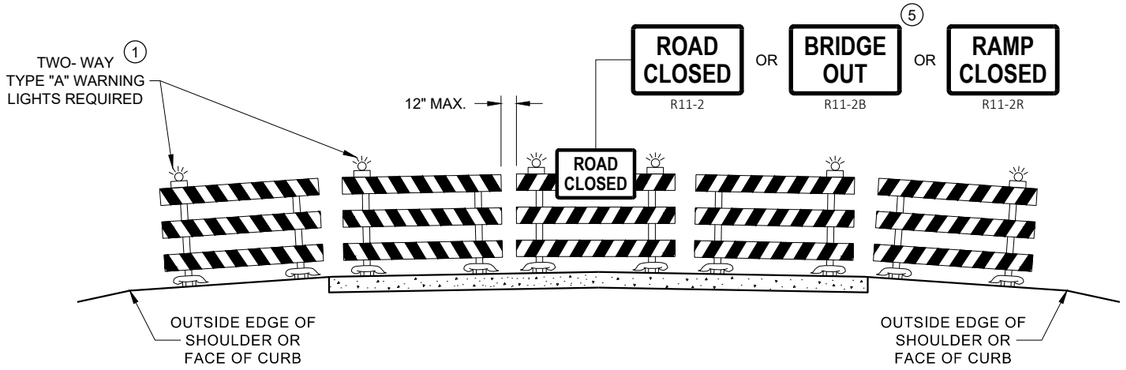
FENCE LOCATION AT STRUCTURES

FENCE WOVEN WIRE

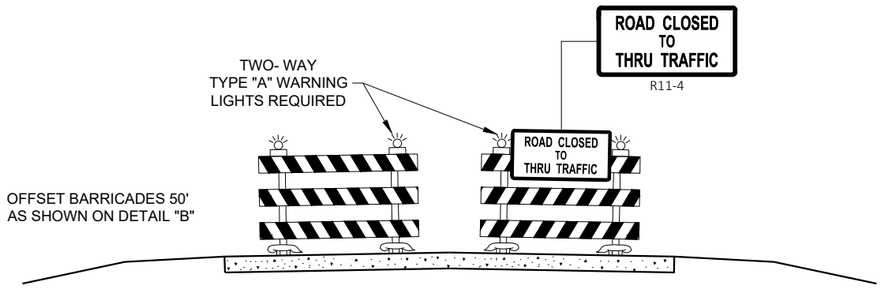
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/4/2008
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6
S.D.D. 15 B 1-8b



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

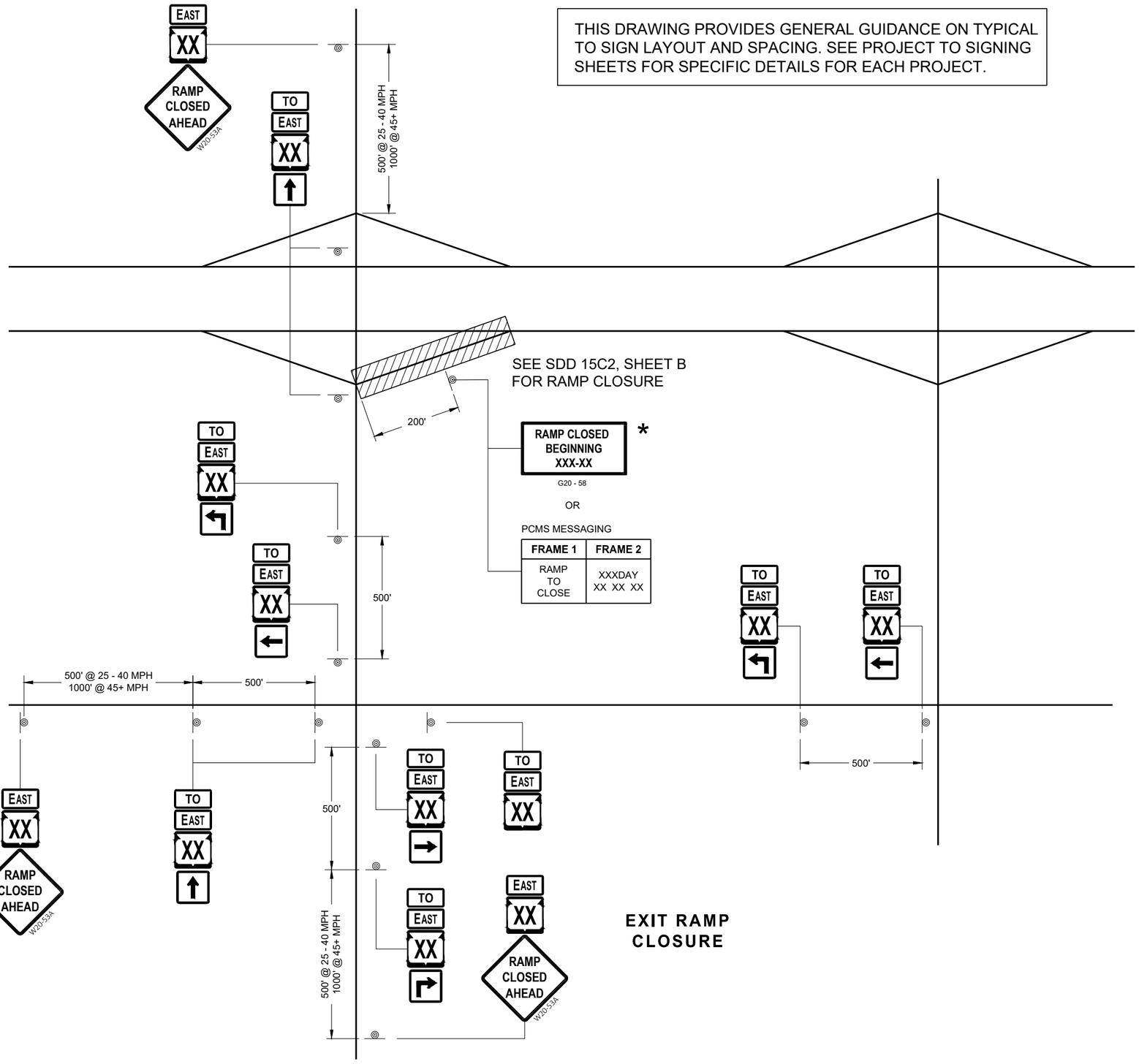
(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE 724
FHWA



THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL TO SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

SIGN ON PERMANENT SUPPORT

TO EAST — MO4 - 5, M3 - X

XX M1 - 6 OR XX M1 - 4 OR INTERSTATE XX M1 - 1

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.

FOR LAYOU

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO 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 SHALL 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 FOLLOW:
- M3 - X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 1, M1 - 4, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).
- W20 - 53A SHALL BE 48" X 48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES

ON RAMP LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

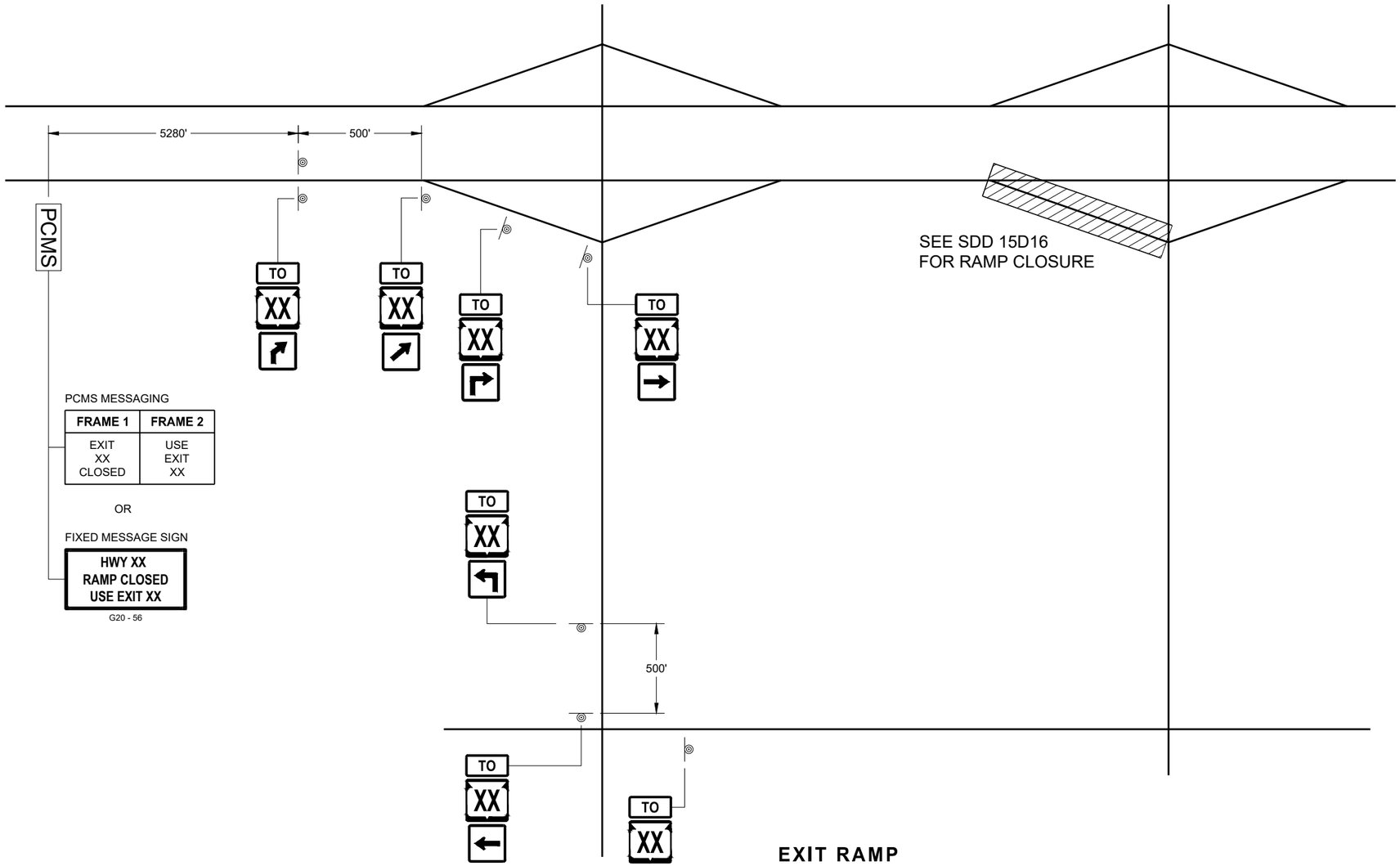
APPROVED
November 2018 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 07d

SDD 15C02 - 07d

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL TO SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.



PCMS MESSAGING

FRAME 1	FRAME 2
EXIT XX CLOSED	USE EXIT XX

OR

FIXED MESSAGE SIGN

HWY XX
RAMP CLOSED
USE EXIT XX

G20 - 56

EXIT RAMP CLOSURE

LEGEND

SIGN ON PERMANENT SUPPORT

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

TO MO4 - 5

XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A

M05 - 1 OR M05 - 2 OR M06 - 1 OR M06 - 2

GENERAL NOTES

SEE SDD 15D16 "TRAFFIC CONTROL, EXIT RAMP CLOSURE" DETAIL FOR TRAFFIC CONTROL AT EXIT RAMP CLOSURE.

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

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO 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 SHALL 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 FOLLOW:

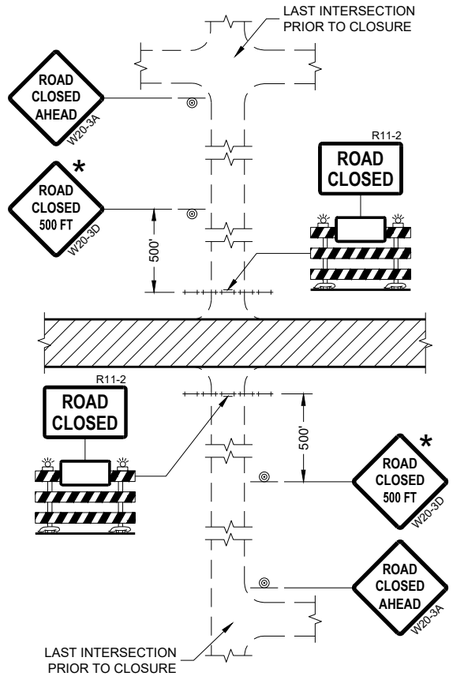
MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
M1 - 4, M1 - 5A, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).

OFF RAMP LANE CLOSURE

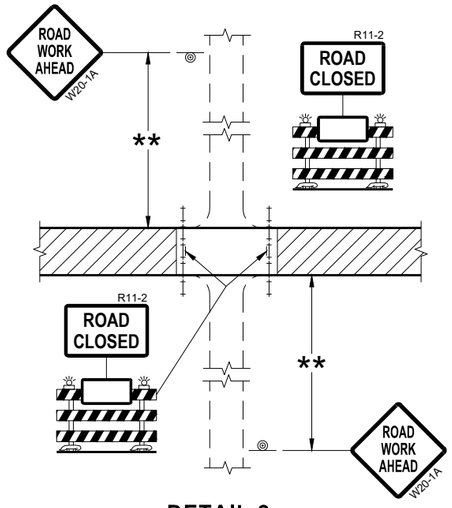
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 DATE
/S/ Andrew Heidtke WORK ZONE ENGINEE
FHWA

SDD 15C02 - 07e



DETAIL 1
(NO ACCESS TO PROJECT)



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

GENERAL NOTES

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

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

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

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

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

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

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

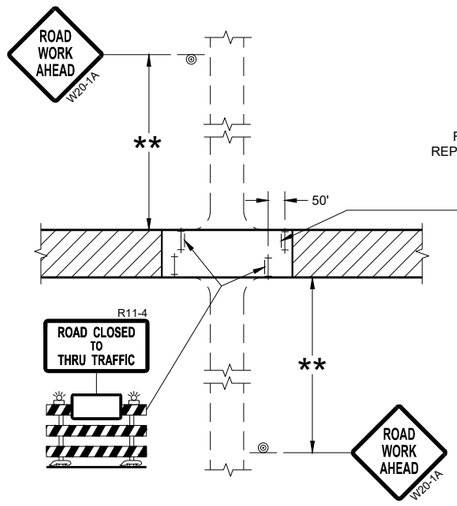
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

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

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.



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

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

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

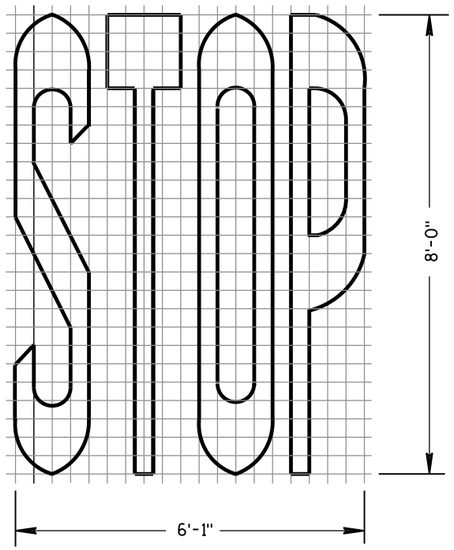
FHWA

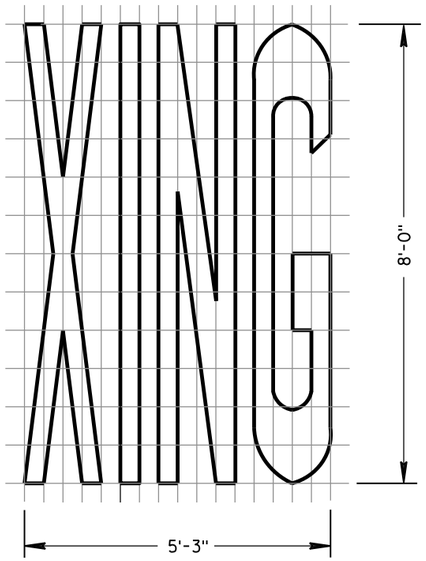
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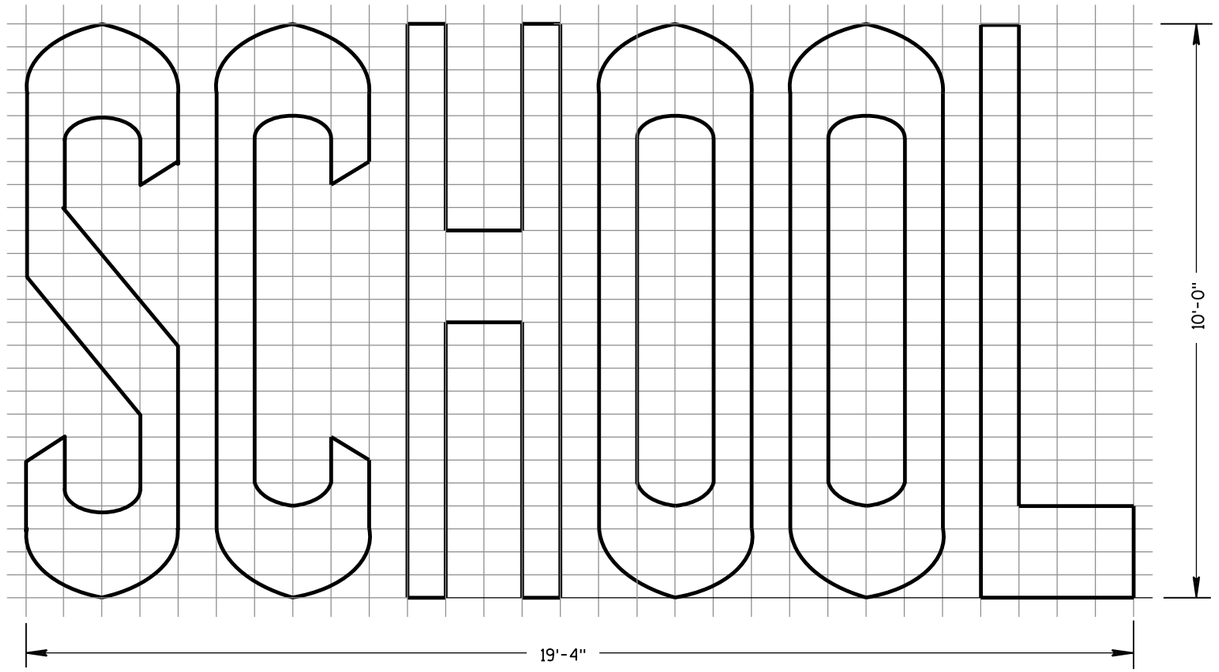
SDD 15C03 - 05

GENERAL NOTES

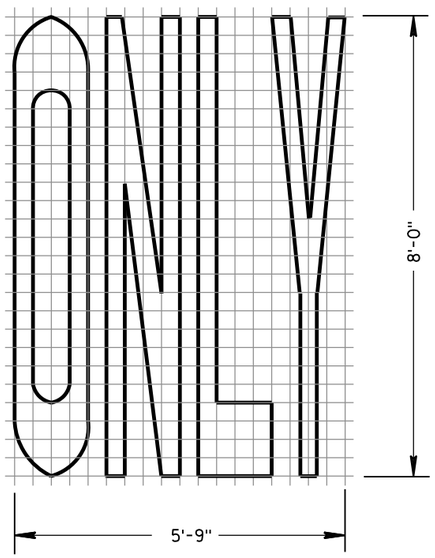
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

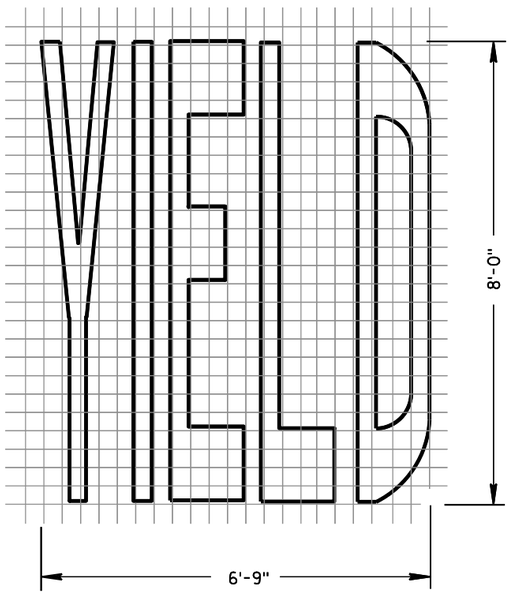


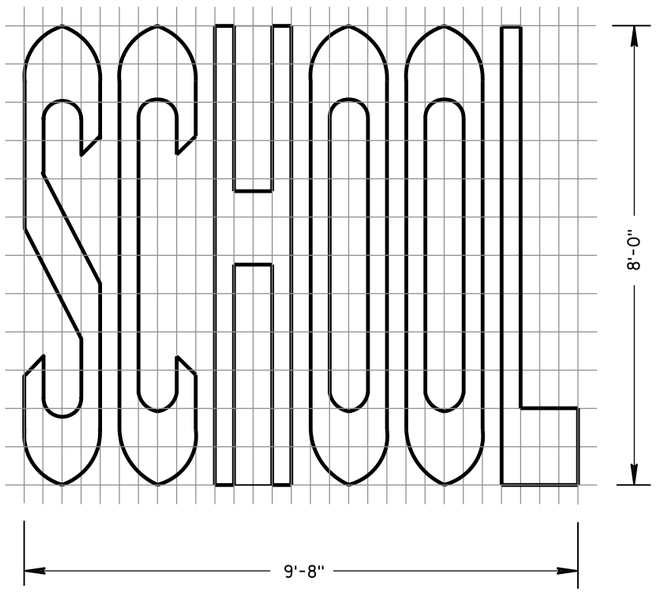




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARK
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FHWA

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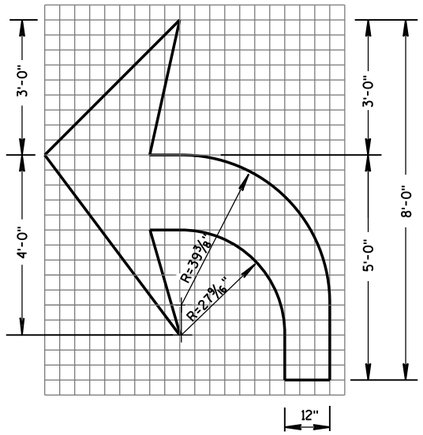
S.D.D. 15 C 7-14b

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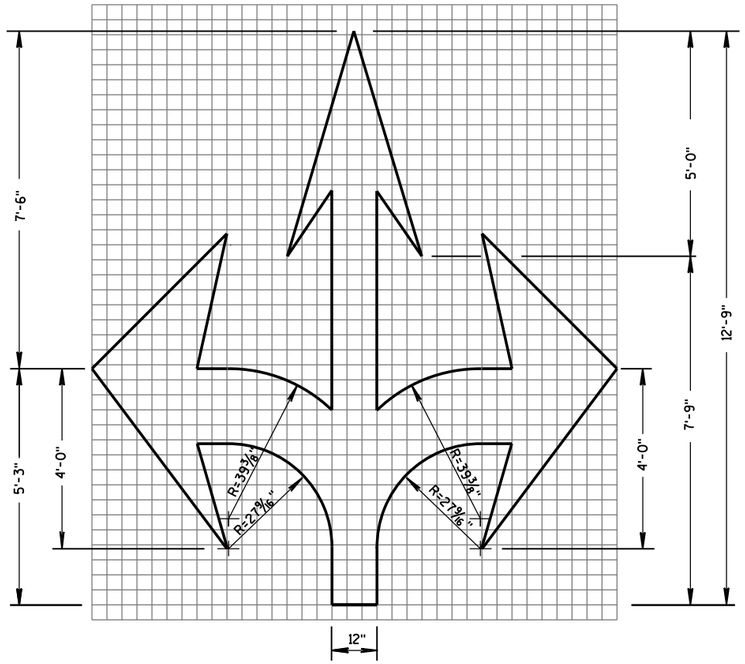
S.D.D. 15 C 7-14b

GENERAL NOTES

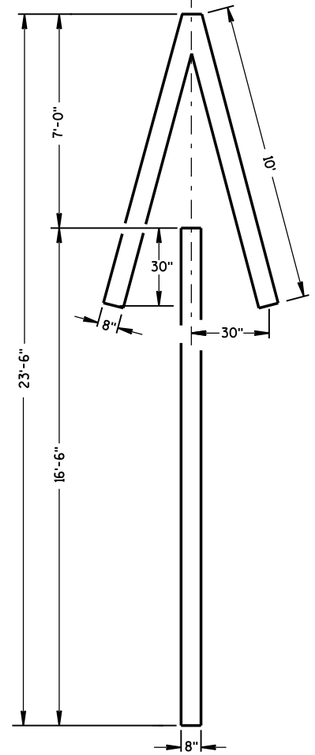
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



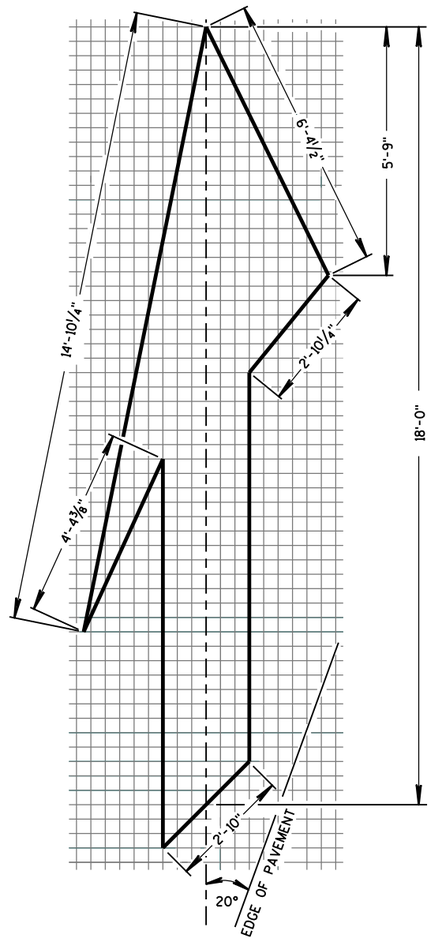
TYPE 2



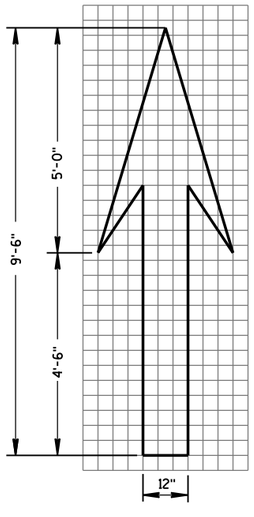
TYPE 6



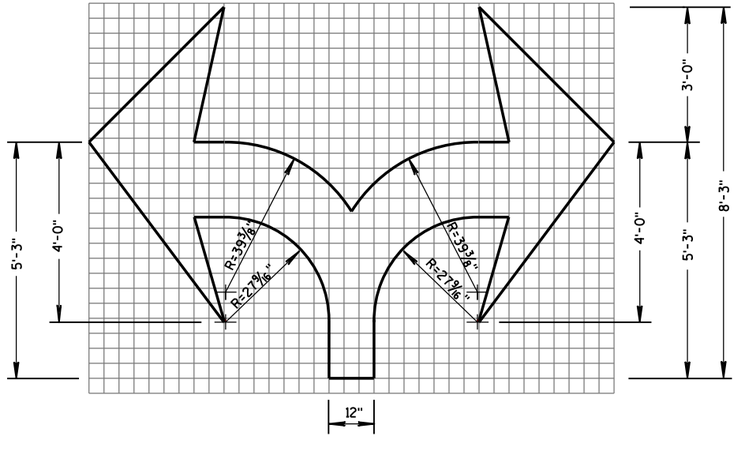
TYPE 4



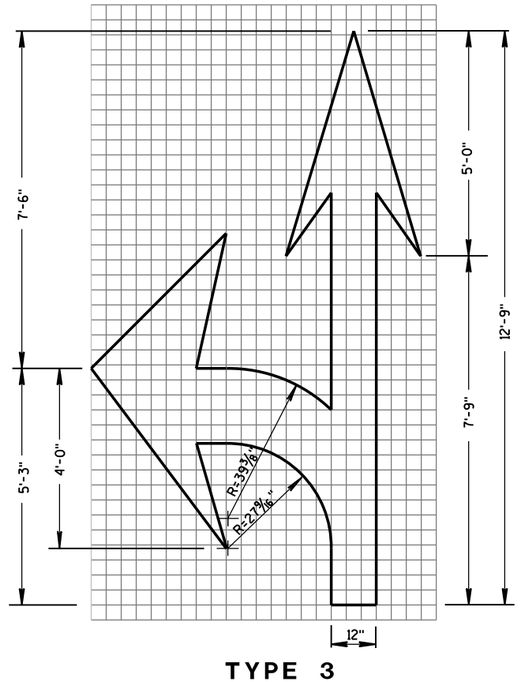
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

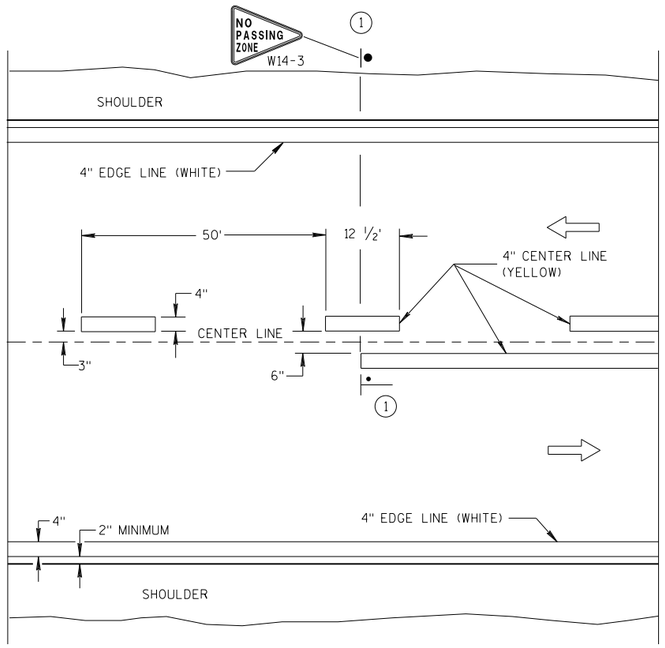
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]NEER
FHWA

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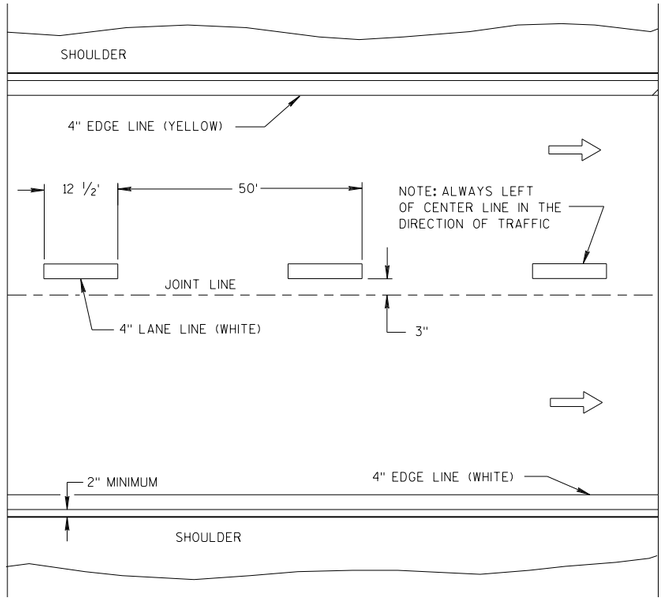
S.D.D. 15 C 7-14c

6

S.D.D. 15 C 7-14c



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

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

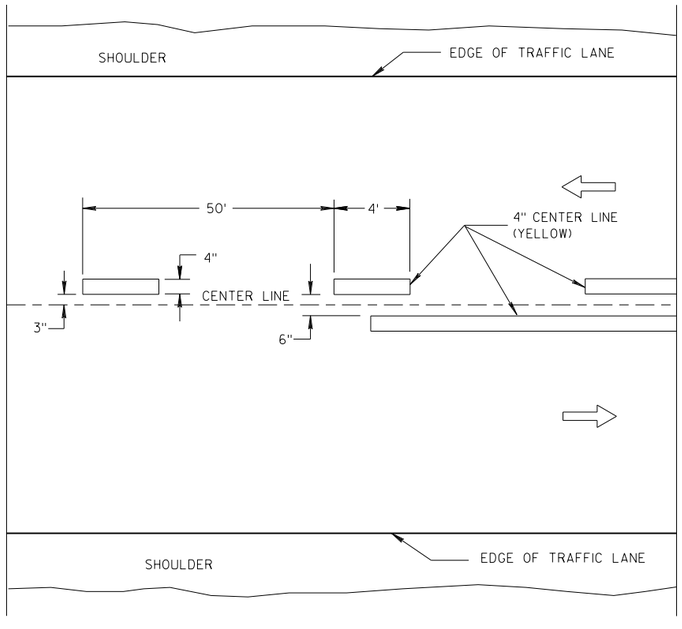
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

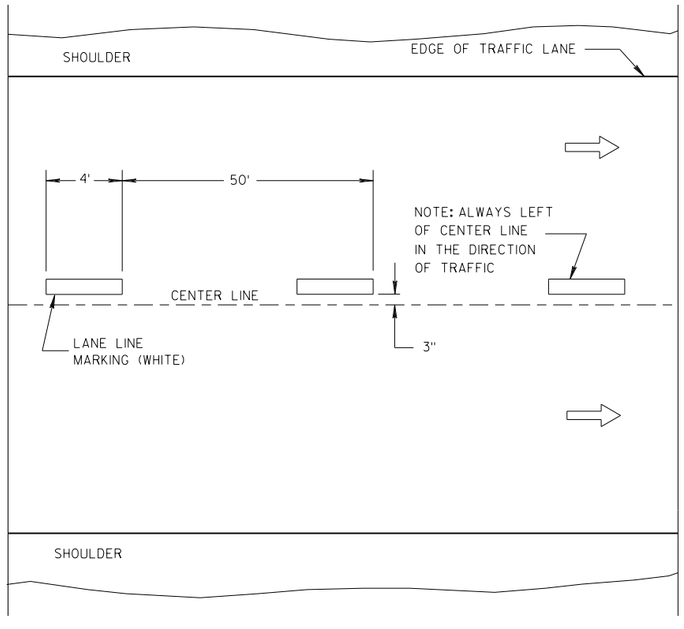
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

730

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S.D.D. 15 C 8-19a

6

S.D.D. 15 C 8-19a

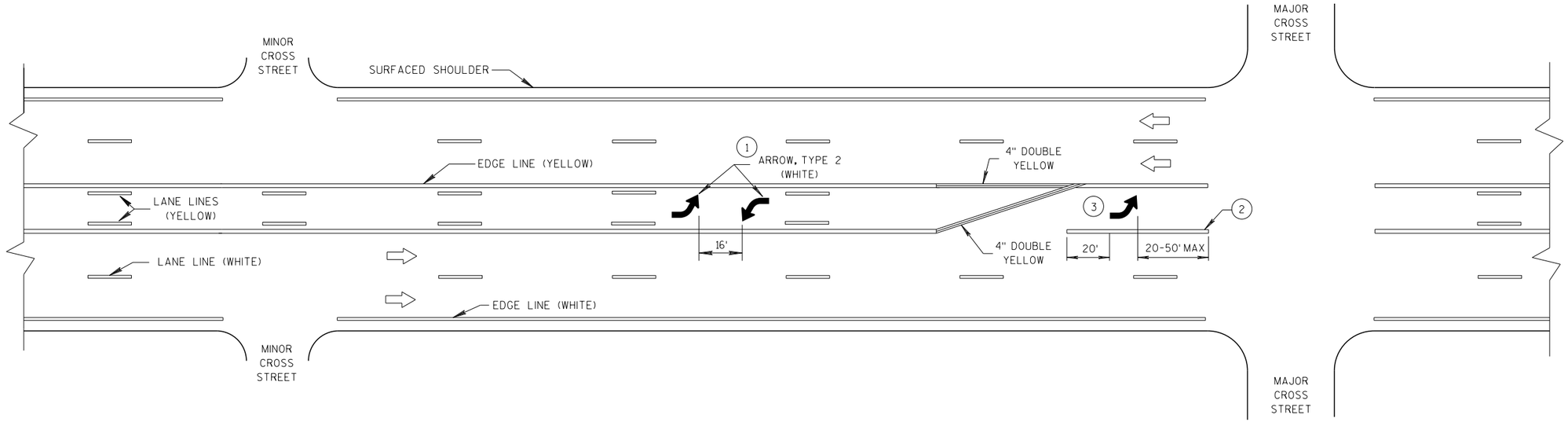
GENERAL NOTES

(1) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(2) 8" WHITE

(3) TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT

DIRECTION OF TRAFFIC



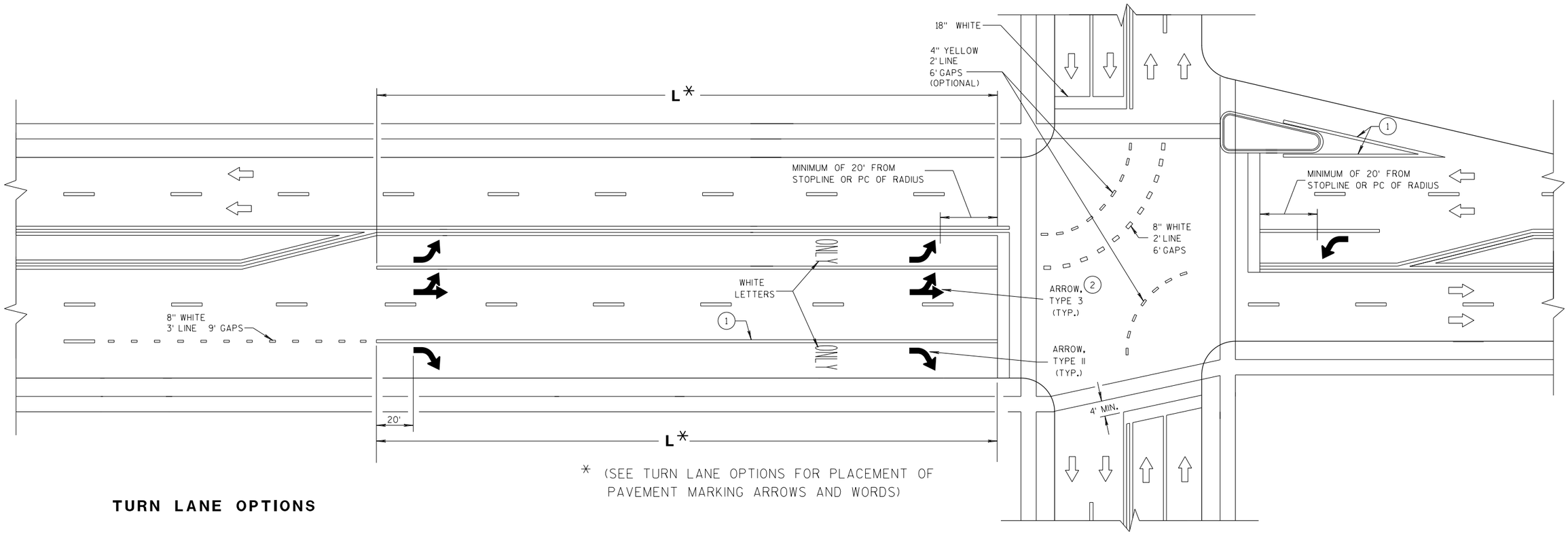
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

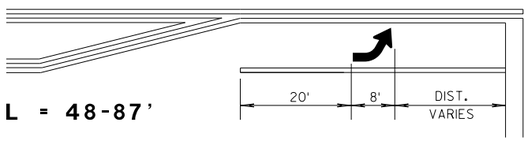
S.D.D. 15 C 8-19b



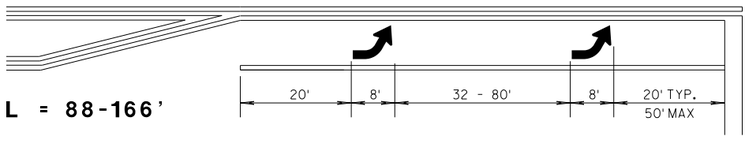
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

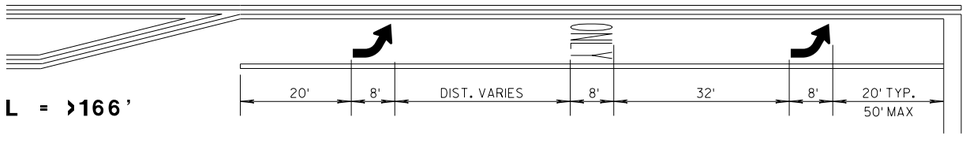
LENGTH OF TURN BAY (**L**) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48-87'



L = 88-166'



L = >166'

GENERAL NOTES

(1) 8" WHITE

(2) QUANTITY AND LOCATION OF TYPE 3 ARROW ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION, THE ARROWS AND ONLY MARKING ARE ELIMINATED.

⇨ DIRECTION OF TRAFFIC

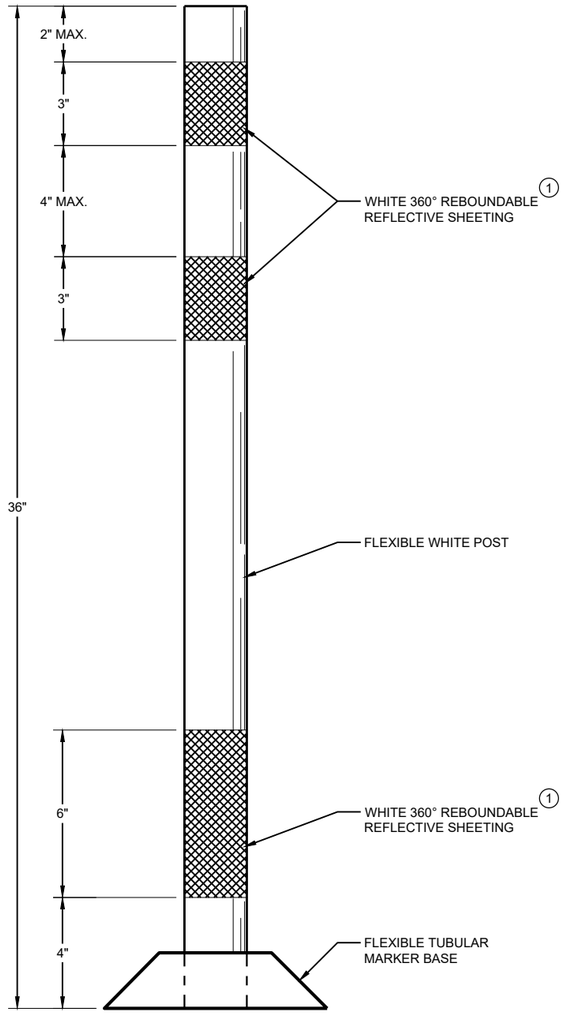
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

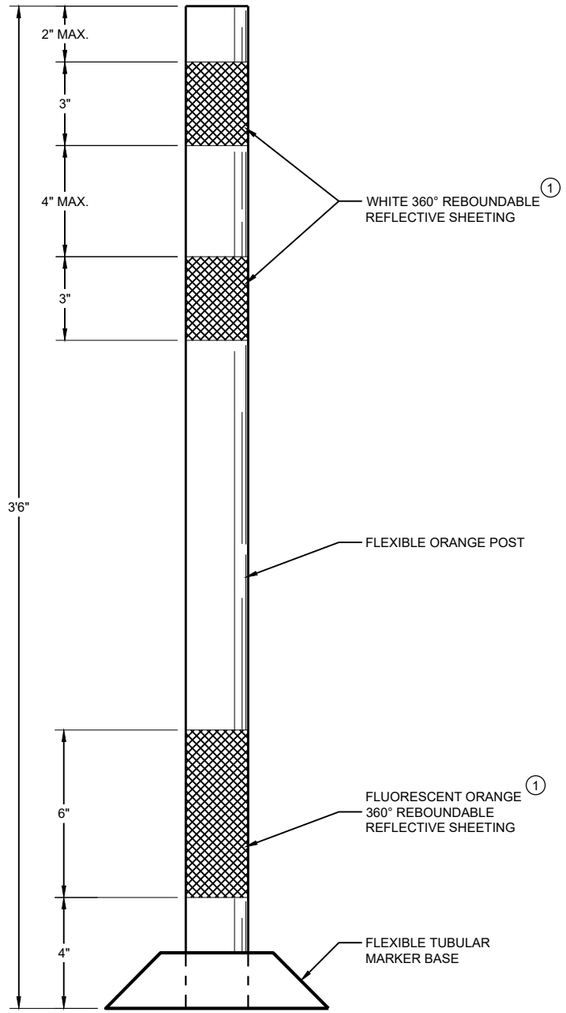
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORT

6

S.D.D. 15 C 8-19c



FLEXIBLE TUBULAR MARKER POST PERMANENT CROSSOVER



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

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

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

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

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

6

SDD 15C11 - 07a

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

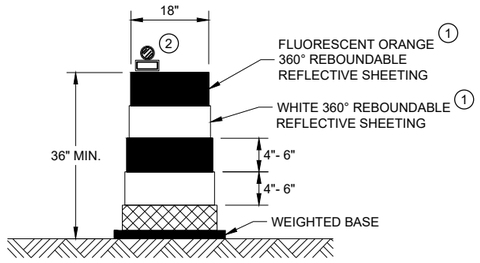
FHWA

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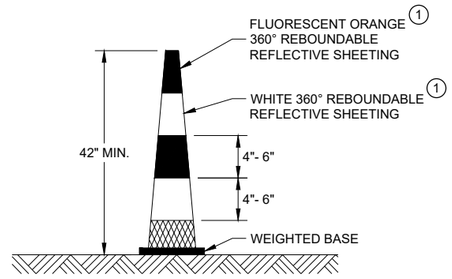
SDD 15C11 - 07a

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.

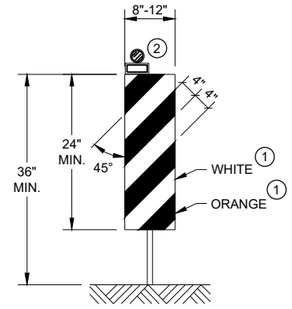


DRUM



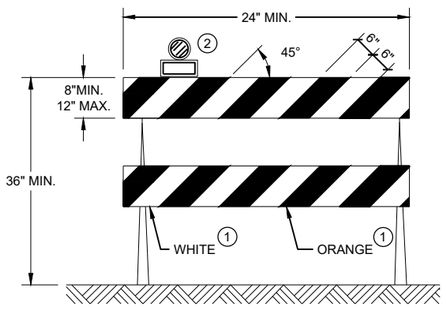
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



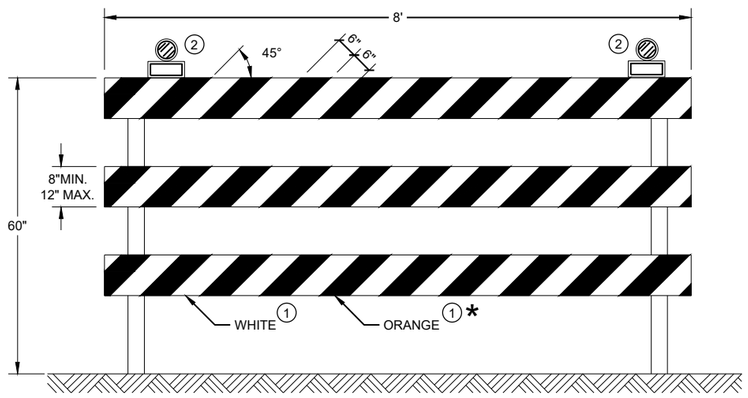
VERTICAL PANEL

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



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C11 - 07b
SDD 15C11 - 07b

GENERAL NOTES

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER FABRICATION DRAWING.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

SIGN SUPPORTS SHALL BE LOCATED NORMAL TO ROADWAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR CAGE TO BE ASSEMBLED USING TIE WIRES ONLY, NO WELDING.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACK FILLING AROUND THE BASE. ANY REQUIRED BACKFILL SHALL BE WELL COMPACTED IN LAYERS OF 1 FOOT OR LESS. COMPACTION SHALL BE BY MECHANICAL MEANS. CARE SHALL BE TAKEN SO NO DAMAGE OCCURS TO THE CONCRETE BASE DURING COMPACTION.

EXCAVATION OF MATERIALS NOT OCCUPIED BY CONCRETE SHALL BE MINIMIZED TO REDUCE DISTURBANCE OF THE SURROUNDING SOILS.

THE BOTTOM OF THE DRILLED HOLE SHALL BE FIRM AND THOROUGHLY CLEANED SO NO LOOSE OR COMPRESSIBLE MATERIALS ARE PRESENT AT THE TIME OF THE CONCRETE PLACEMENT.

IF THE DRILLED HOLE CONTAINS STANDING WATER, THE CONCRETE SHALL BE PLACED USING A TREMIE TO DISPLACE THE WATER.

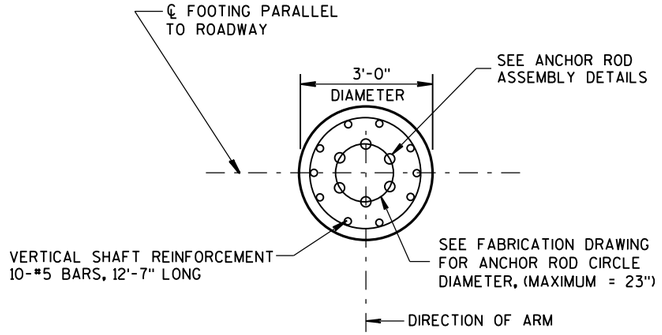
THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

FORM ALL EXPOSED CONCRETE CORNERS WITH ¾" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

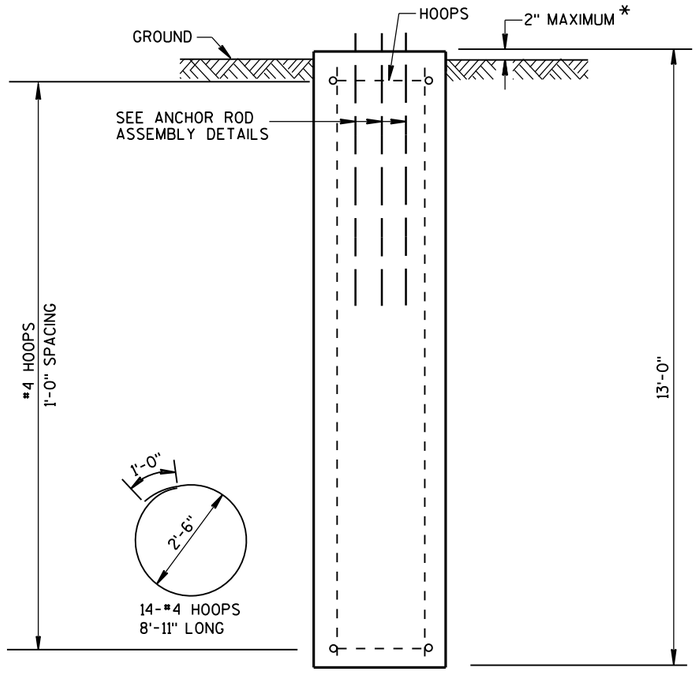
ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554, GRADE 55	fy=55,000 p.s.i.
ASTM A563A HEAVY HEX NUTS, AND ASTM F436 WASHERS.	
PLATES, ASTM A709, GRADE 36	fy=36,000 p.s.i.

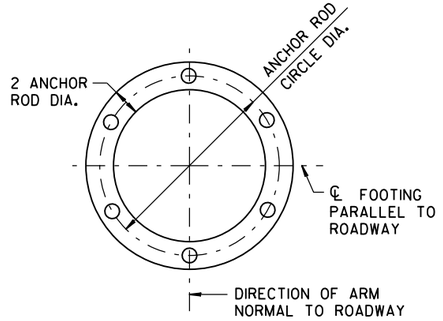
THIS FOOTING HAS BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 20 DEGREES (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 350 PSF (COHESIVE SOILS).



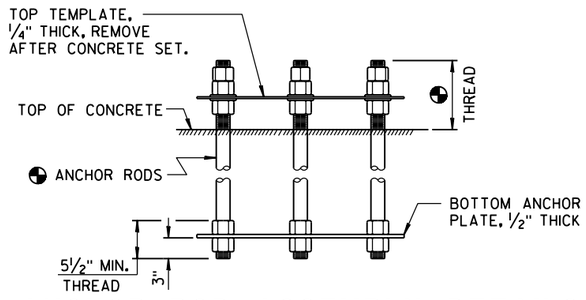
PLAN VIEW



ELEVATION VIEW



TOP TEMPLATE AND BOTTOM ANCHOR PLATE



ANCHOR ROD ASSEMBLY DETAILS

⊕ MINIMUM OF 6 ANCHOR RODS, EXACT NUMBER, SIZE, DIMENSION AND ORIENTATION AS SHOWN ON FABRICATION DRAWING.

* FOR OVERHEAD SIGN SUPPORTS THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE BASE SHALL BE POURED FLUSH WITH THE GROUND.

CONCRETE - 3.4 C.Y. PER FOOTING
H.S. REINFORCEMENT - 215 LBS. PER FOOTING

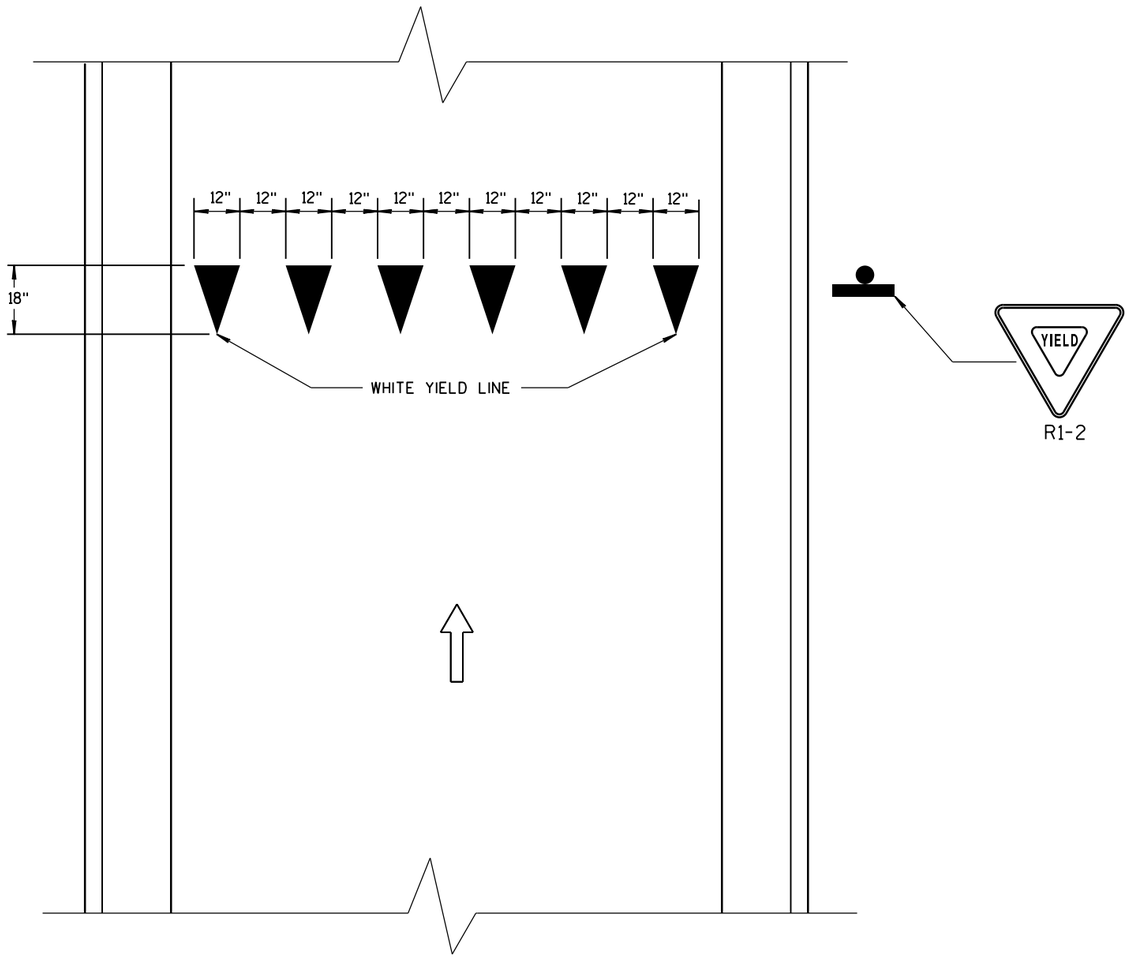
36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Vu Thao — WIND LOADED STRU PROGRAM LEA 735
FHWA

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S.D.D. 15 C 15-5



R1-2

DIRECTION OF TRAVEL

YIELD LINE

6

S.D.D. 15 C 20-2

YIELD MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARI 736 IEER

FHWA

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S.D.D. 15 C 20-2

GENERAL NOTES

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER FABRICATION DRAWING.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

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THE BOTTOM OF THE DRILLED HOLE SHALL BE FIRM AND THOROUGHLY CLEANED SO NO LOOSE OR COMPRESSIBLE MATERIALS ARE PRESENT AT THE TIME OF THE CONCRETE PLACEMENT.

IF THE DRILLED HOLE CONTAINS STANDING WATER, THE CONCRETE SHALL BE PLACED USING A TREMIE TO DISPLACE THE WATER.

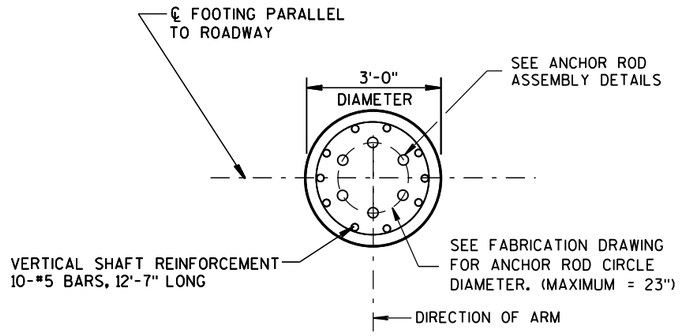
THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

FORM ALL EXPOSED CONCRETE CORNERS WITH ¾" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

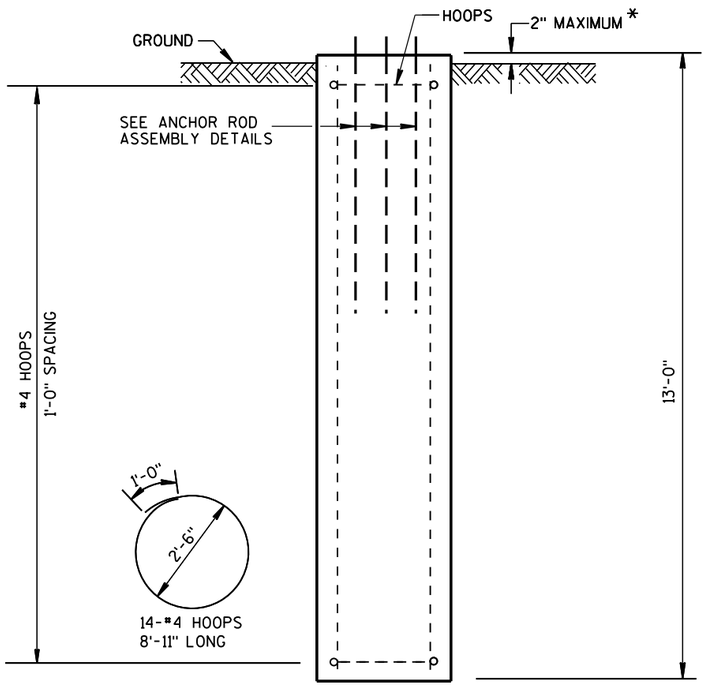
ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554, GRADE 55	fy=55,000 p.s.i.
ASTM A563A HEAVY HEX NUTS, AND ASTM F436 WASHERS.	
PLATES, ASTM A709, GRADE 36	fy=36,000 p.s.i.

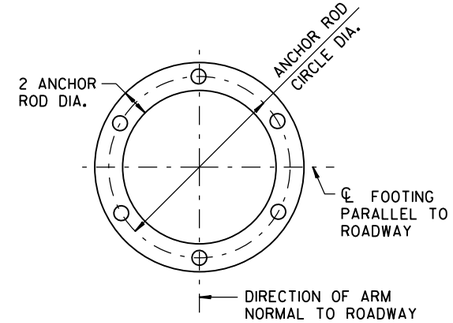
THIS FOOTING HAS BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 20 DEGREES (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 350 PSF (COHESIVE SOILS).



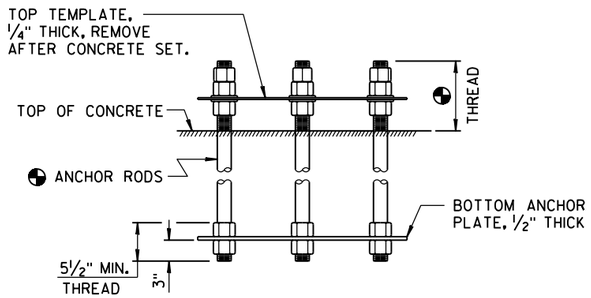
PLAN VIEW



ELEVATION VIEW



TOP TEMPLATE AND BOTTOM ANCHOR PLATE



ANCHOR ROD ASSEMBLY DETAILS

⊕ MINIMUM OF 6 ANCHOR RODS, EXACT NUMBER, SIZE, DIMENSION AND ORIENTATION AS SHOWN ON FABRICATION DRAWING.

* FOR OVERHEAD SIGN SUPPORTS THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE BASE SHALL BE POURED FLUSH WITH THE GROUND.

CONCRETE - 3.4 C.Y. PER FOOTING
H.S. REINFORCEMENT - 215 LBS. PER FOOTING

36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
FHWA

/S/ Vu Thao
WIND LOADED STRU PROGRAM LEAD

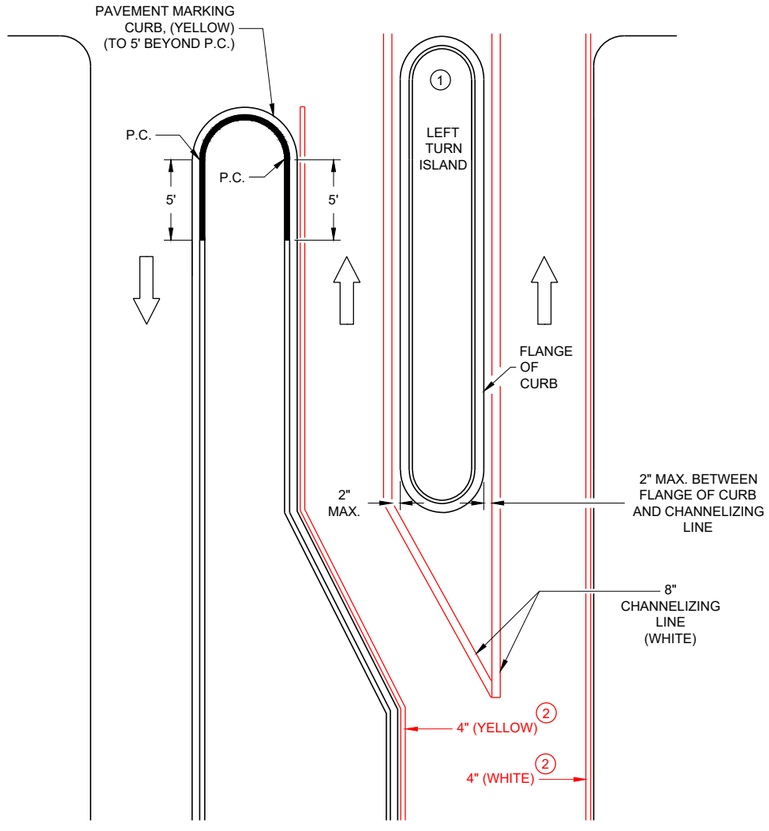
6

S.D.D. 15 C 24-4

6

S.D.D. 15 C 24-4

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



LEFT TURN & MEDIAN ISLAND

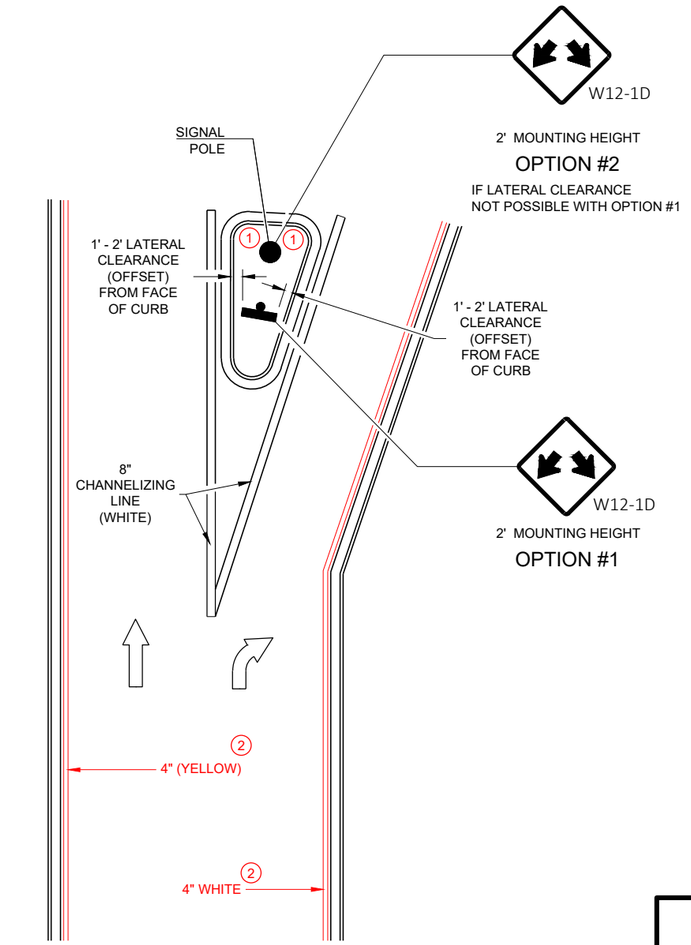
GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

1. MARK CURB NOSES YELLOW.
2. MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

DOUBLE ARROW
WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

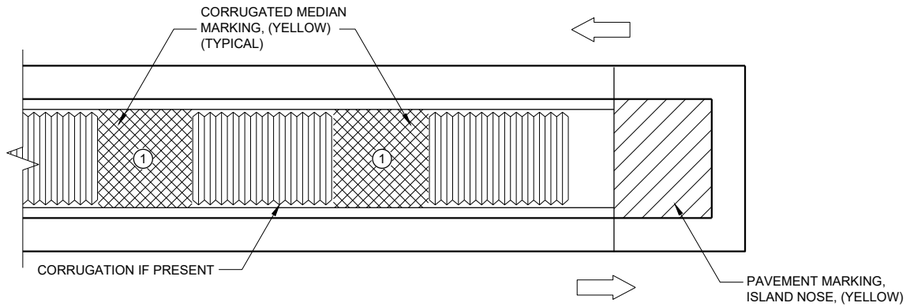
FHWA

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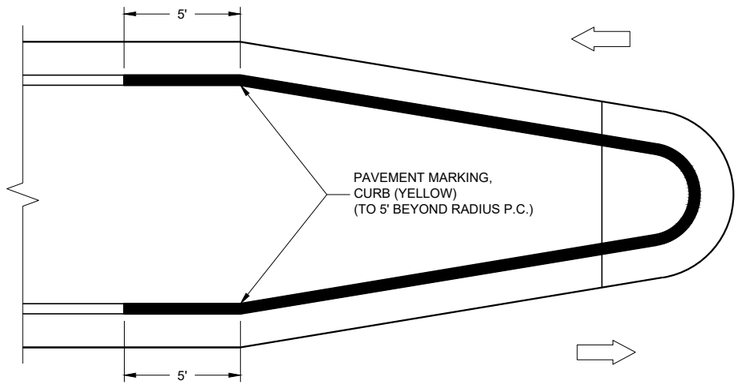
SDD 15C27 - 03a

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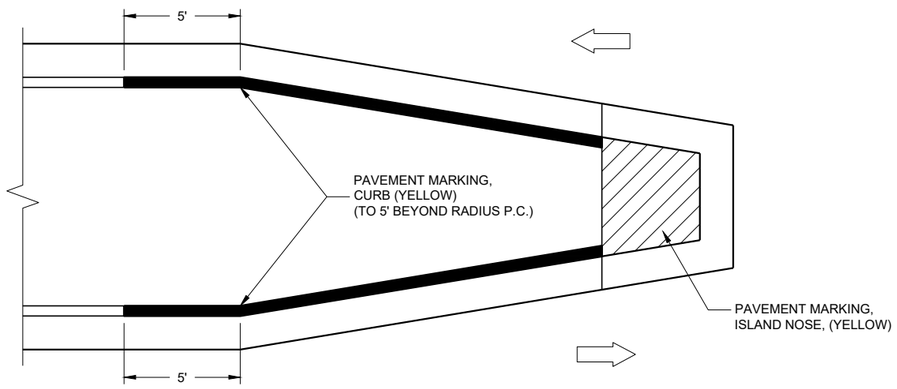
SDD 15C27 - 03a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE

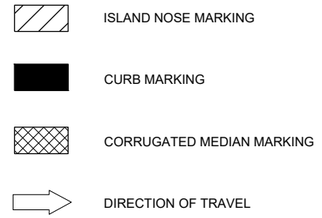


MEDIAN ISLAND WITH SLOPED NOSE

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.



PAVEMENT MARKINGS
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

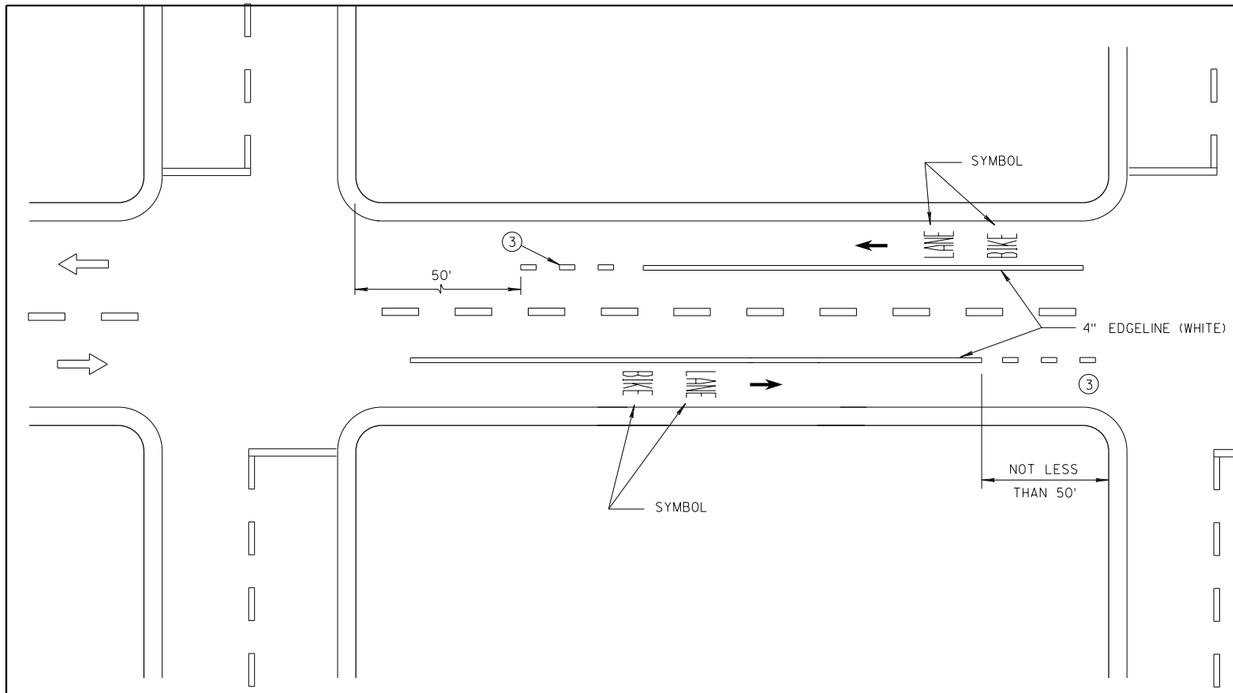
7/2018
DATE

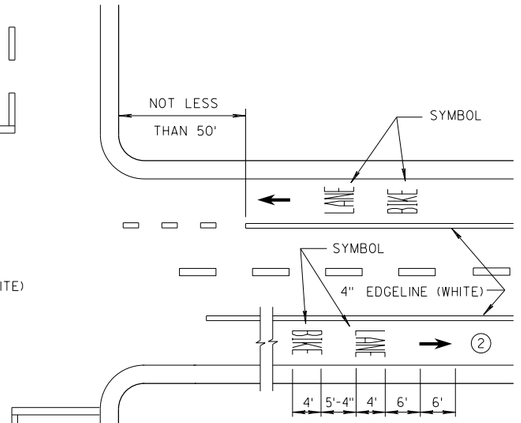
/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

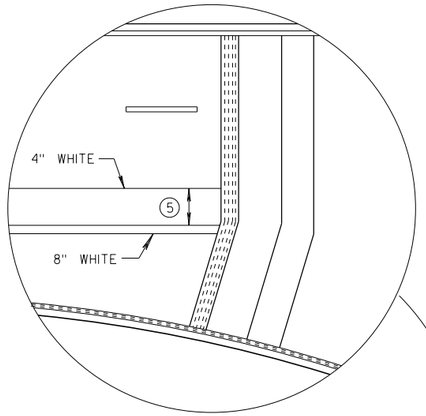
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SDD 15C27 - 03b
SDD15C27 - 03b

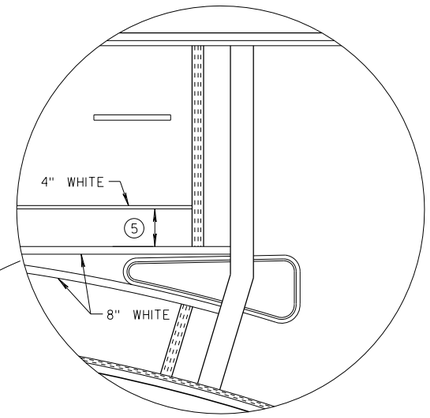




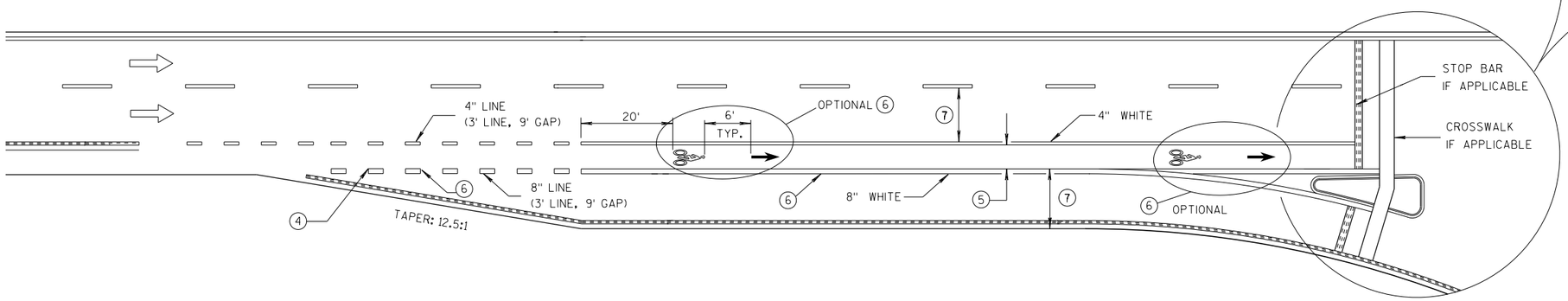
DESIGNATED BICYCLE LANE
NO PARKING



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. BIKE ACCOMODATION IS TYPICALLY 5 FEET WIDE AND A MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FEET WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

DIRECTION OF TRAVEL

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR 740 ...EER

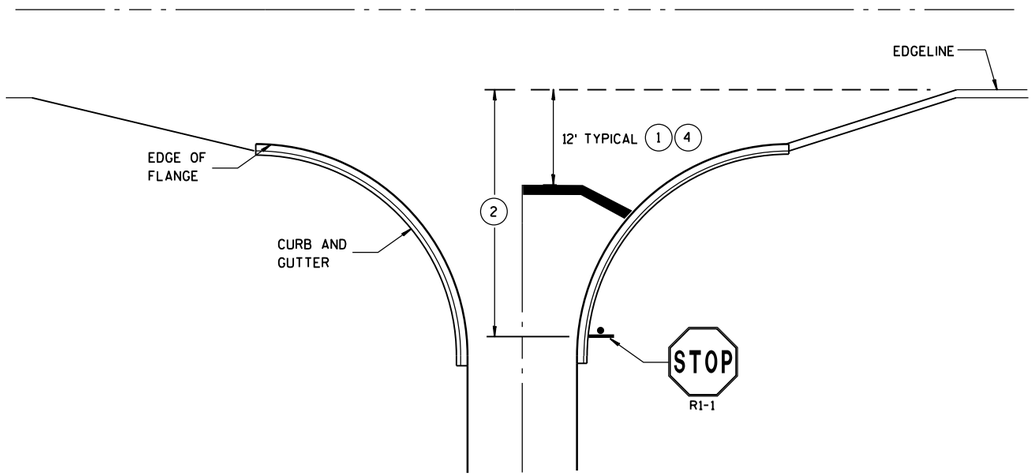
FHWA

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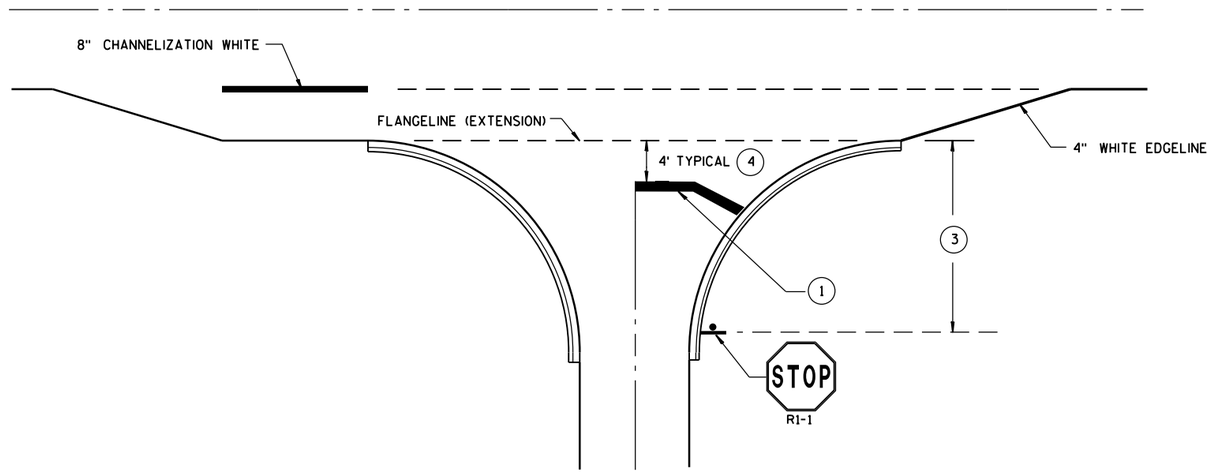
S.D.D. 15 C 29-6a

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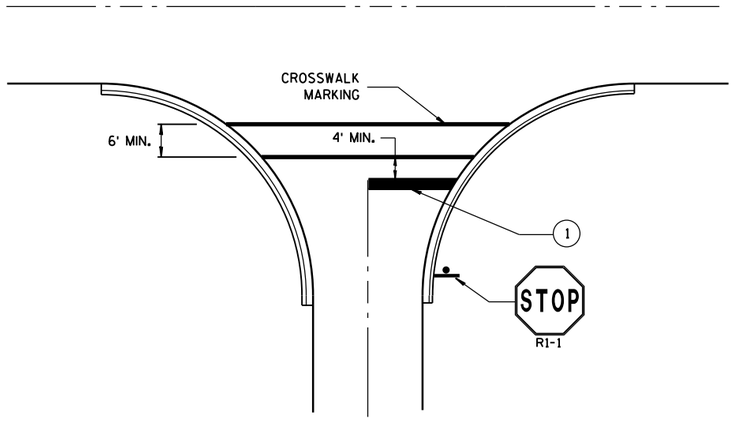
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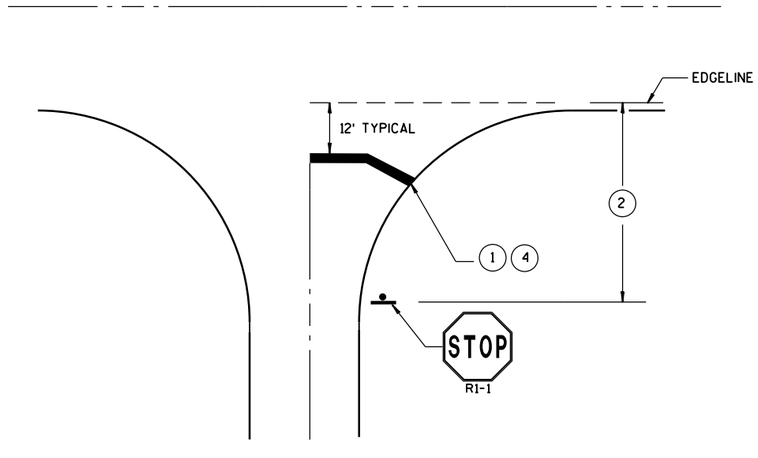
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

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

(1) 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

(2) IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.

(3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.

(4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

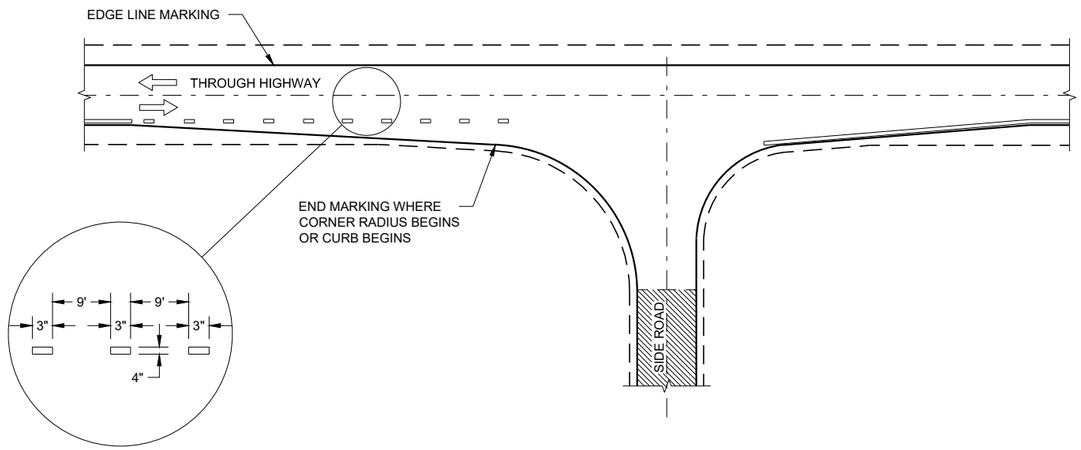
Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR 741 NEER

FHWA

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S.D.D. 15 C 33-3



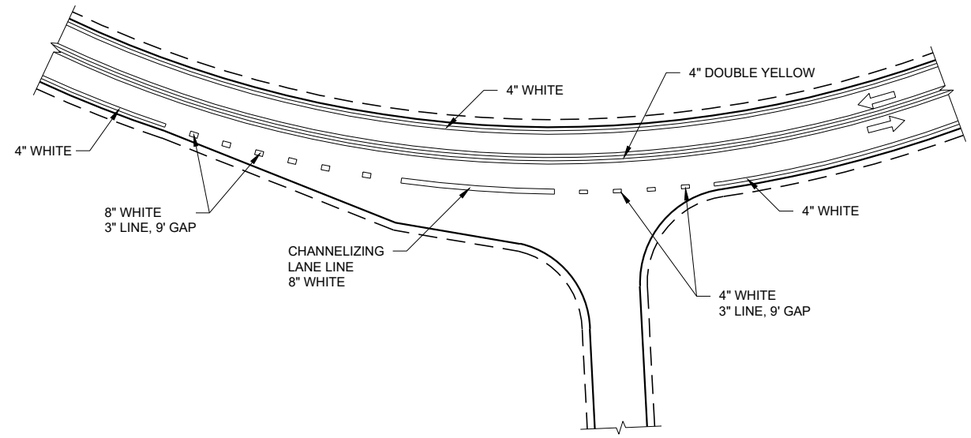
MINOR INTERSECTION

GENERAL NOTES

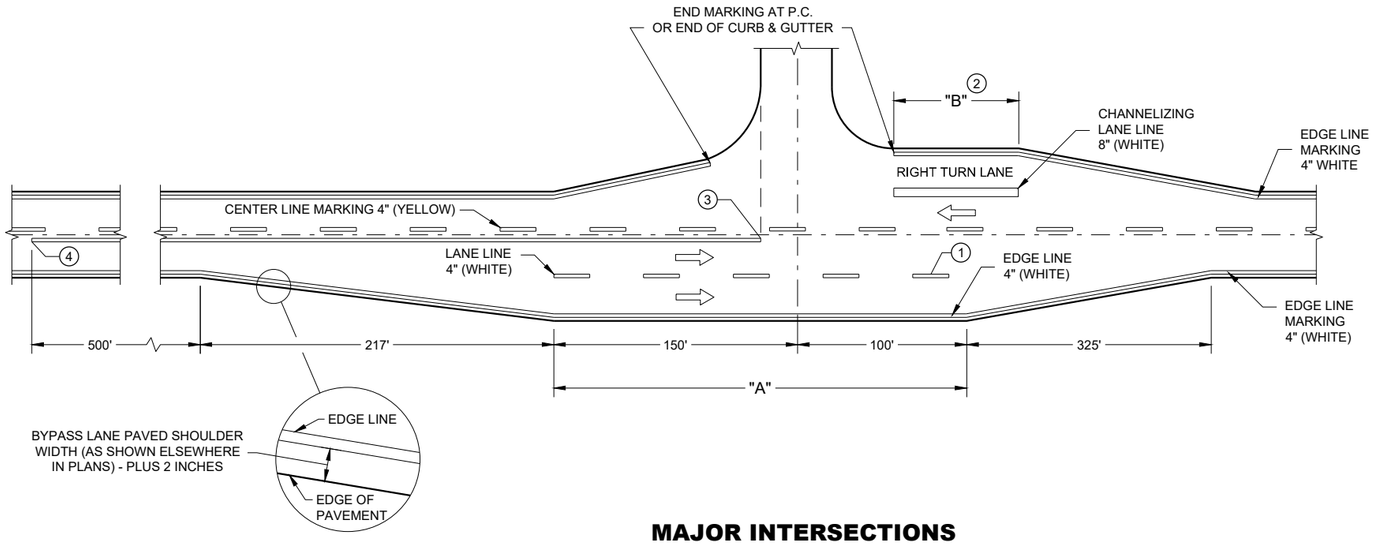
OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C35 - 03a
SDD 15C35 - 03a

GENERAL NOTES

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

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

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

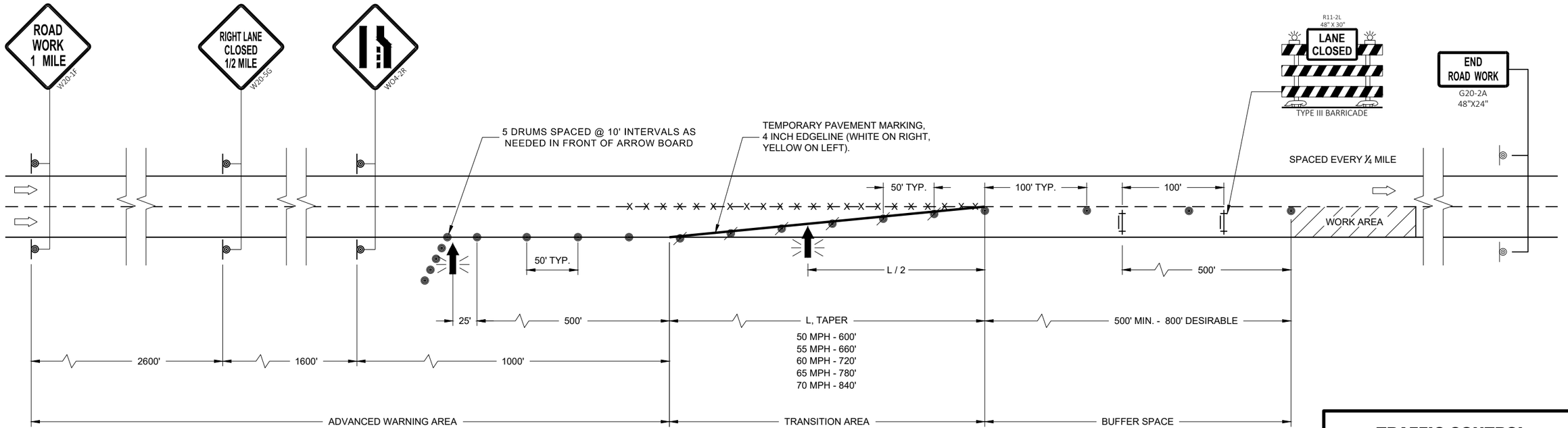
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

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



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D12 - 07a

6

SDD 15D12 - 07a

LEGEND

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

TYPE III BARRICADE WITH ATTACHED SIGN

DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A 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.

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

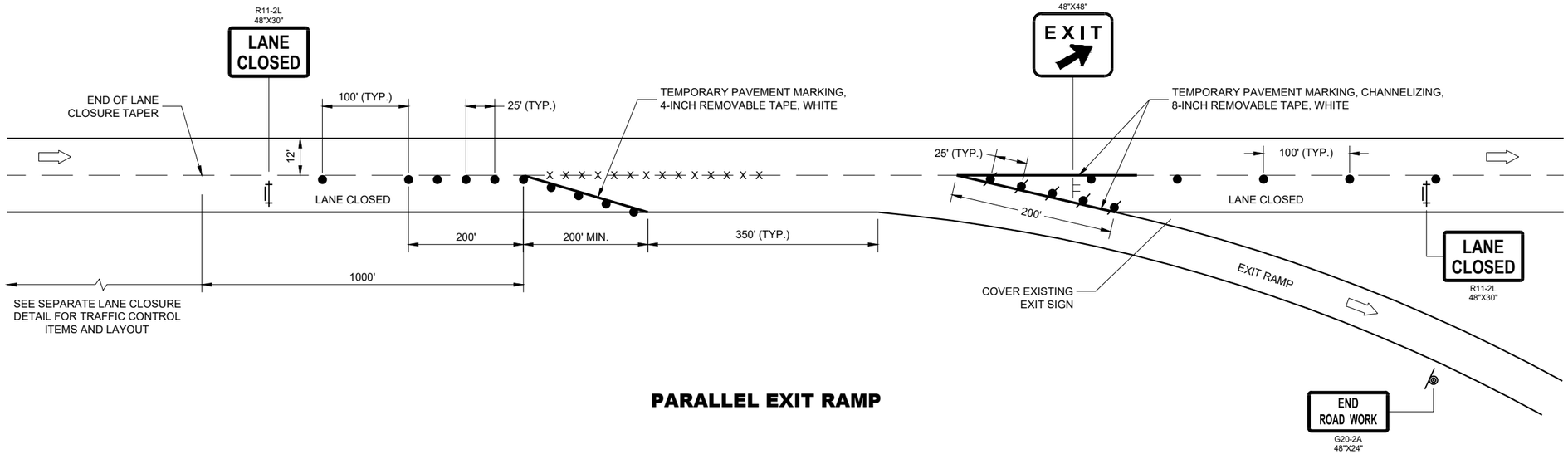
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

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

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

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



PARALLEL EXIT RAMP

TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

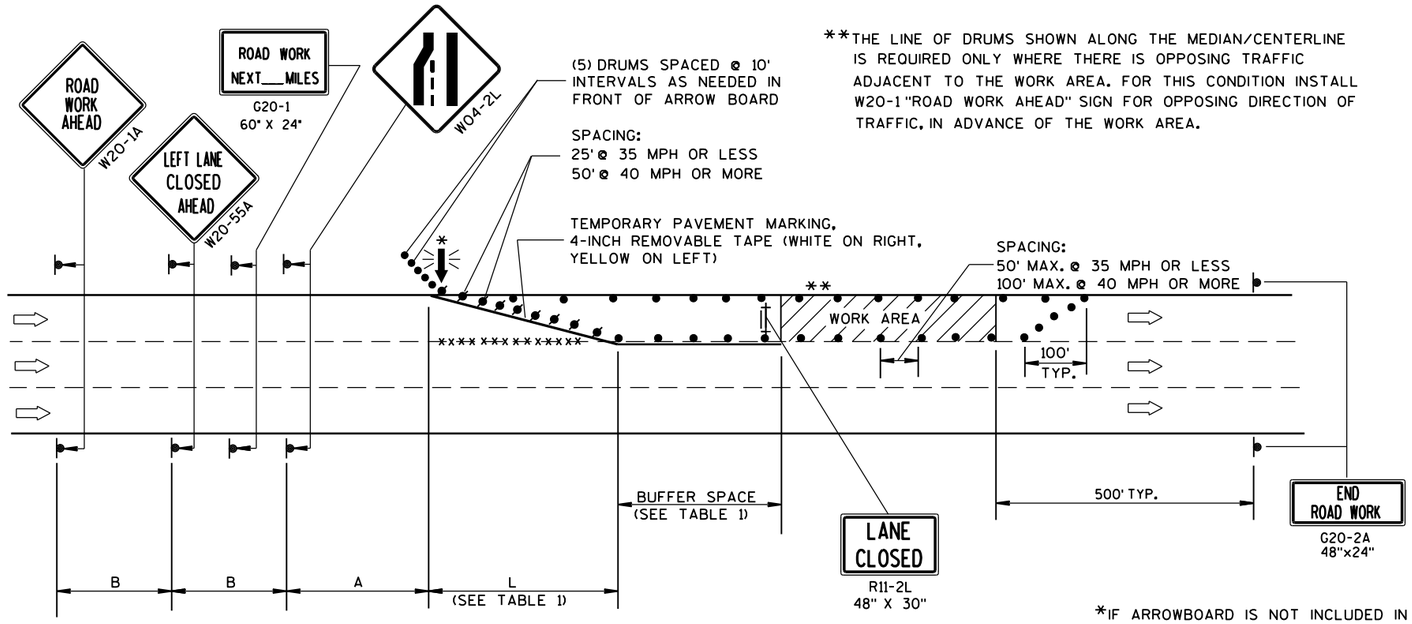
APPROVED
May 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD15D15 - 05e



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

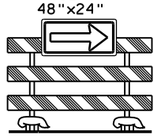


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

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

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

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

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

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

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

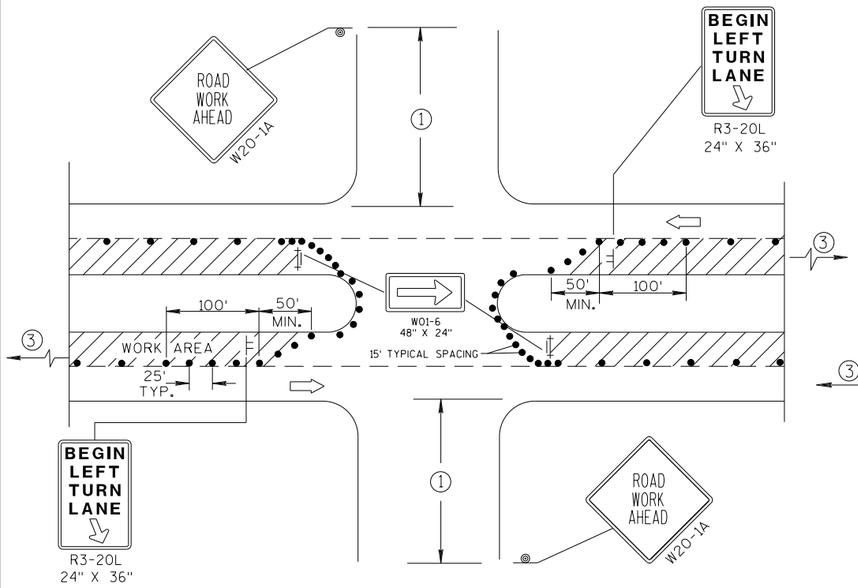
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
FHWA

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER — IC

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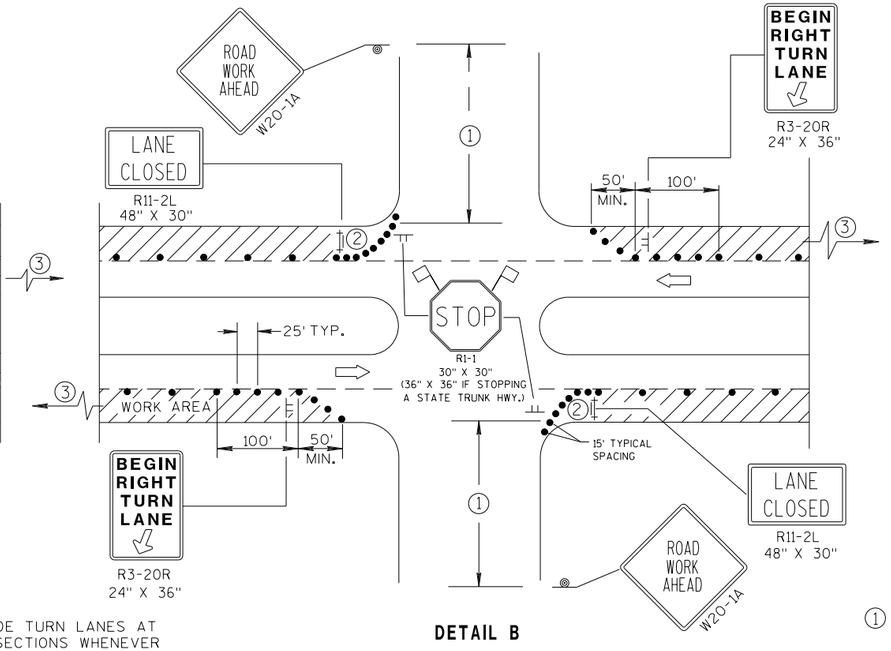
S.D.D. 15 D 20-4



DETAIL A

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

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

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

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

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

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

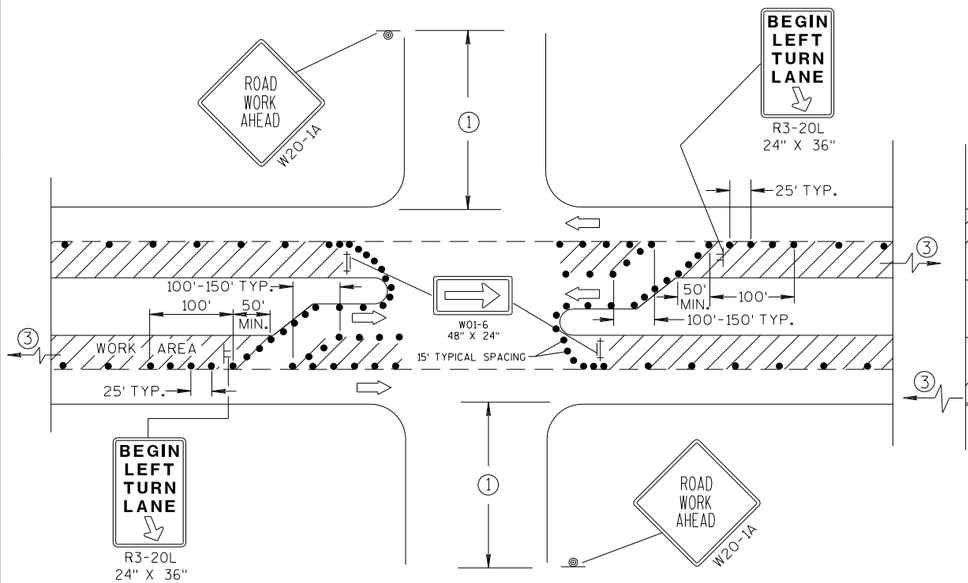
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

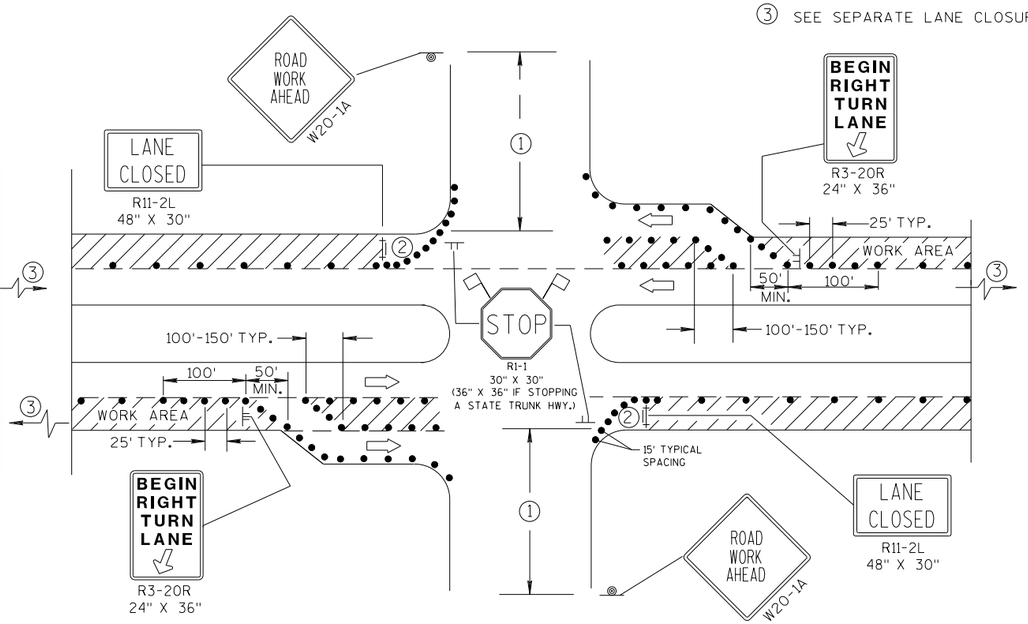
(2) ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D

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

LEGEND

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

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

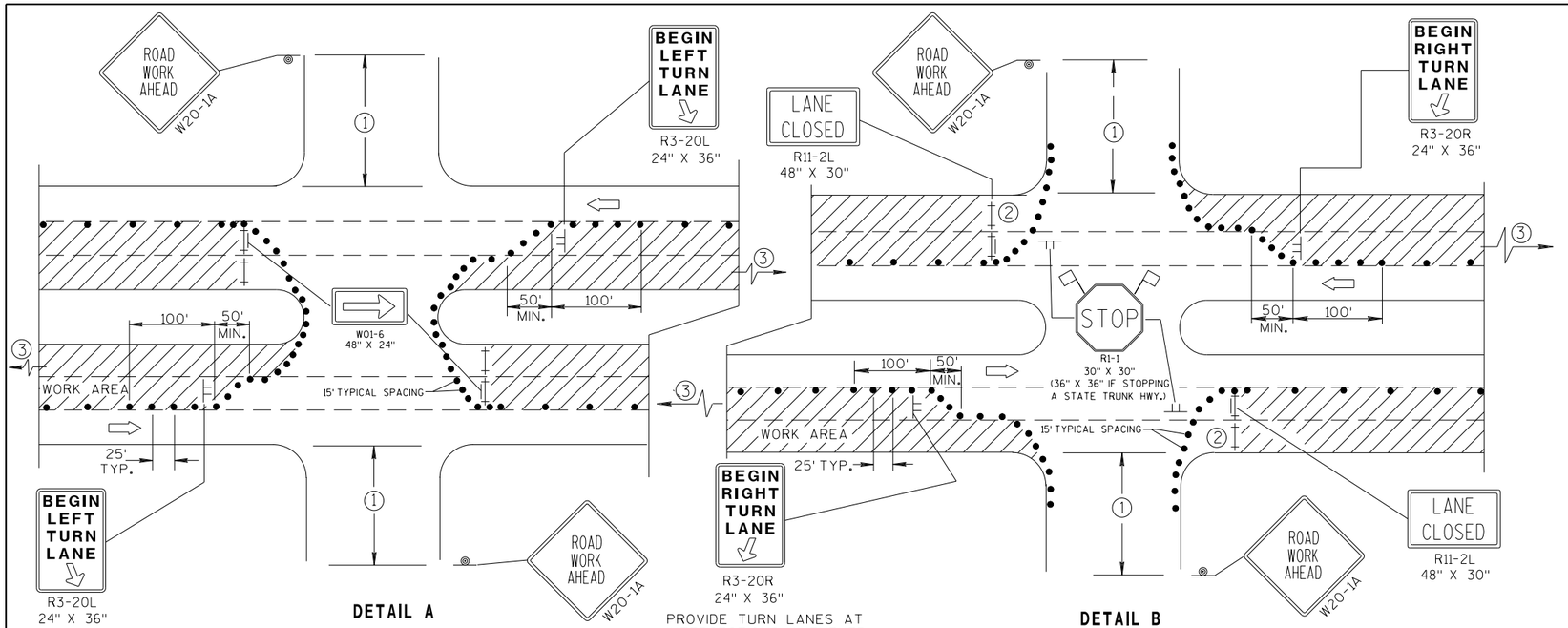
APPROVED

7/2018
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

FHWA

6
S.D.D. 15 D 21-6



DETAIL A

FOR LEFT TWO LANES CLOSED AT INTERSECTION OR MEDIAN BREAK

DETAIL B

FOR RIGHT TWO LANES CLOSED AT INTERSECTION

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

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

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

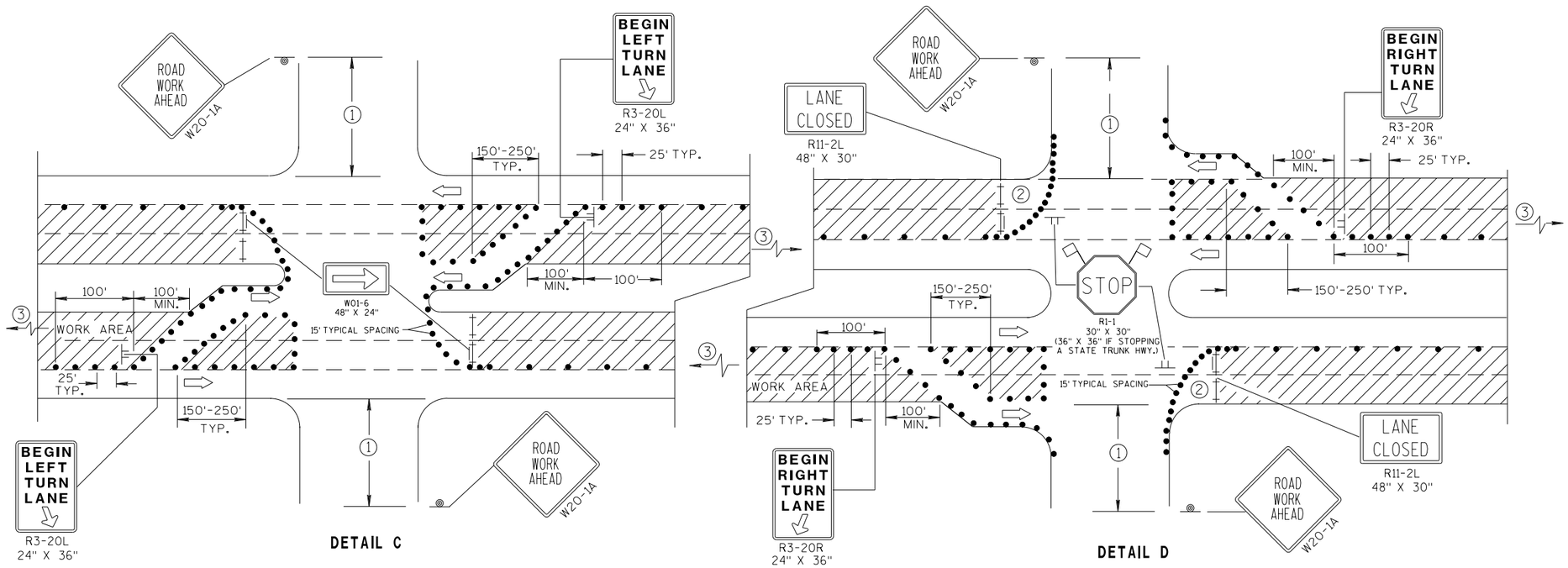
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

(1) 500 FEET TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350 FEET IF 35-40 MPH.
200 FEET IF 25-30 MPH.

(2) ALSO USE BARRICADES AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT TWO LANES CLOSED AT INTERSECTION OR MEDIAN BREAK (WITH LEFT TURN BAY OPEN)

DETAIL D

FOR RIGHT TWO LANES CLOSED AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

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

TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

FHWA

747

6

S.D.D. 15 D 23-6

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

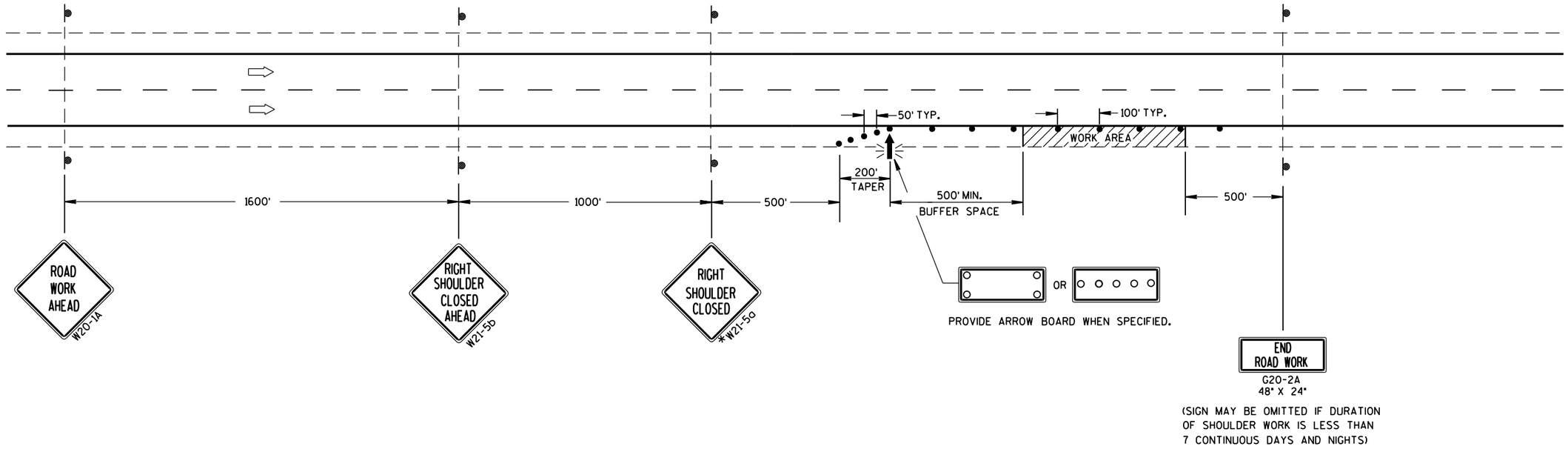
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

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

WHEN A 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.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

6

S.D.D. 15 D 27-3

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK ZONE

TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
W / S	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

W = SHOULDER WIDTH (FEET
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L= WS AT 45 MPH OR GREATER
L = WS² / 60 AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = 1/3L

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

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

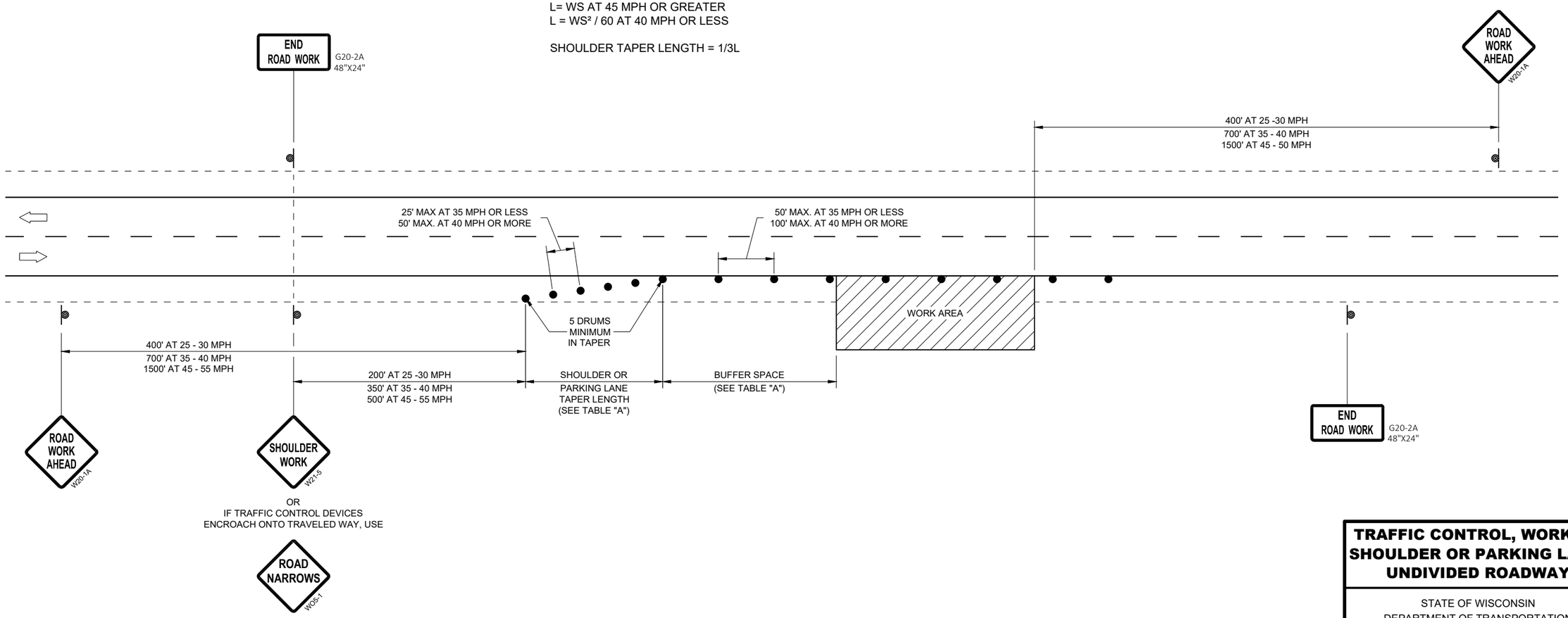
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CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY RESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

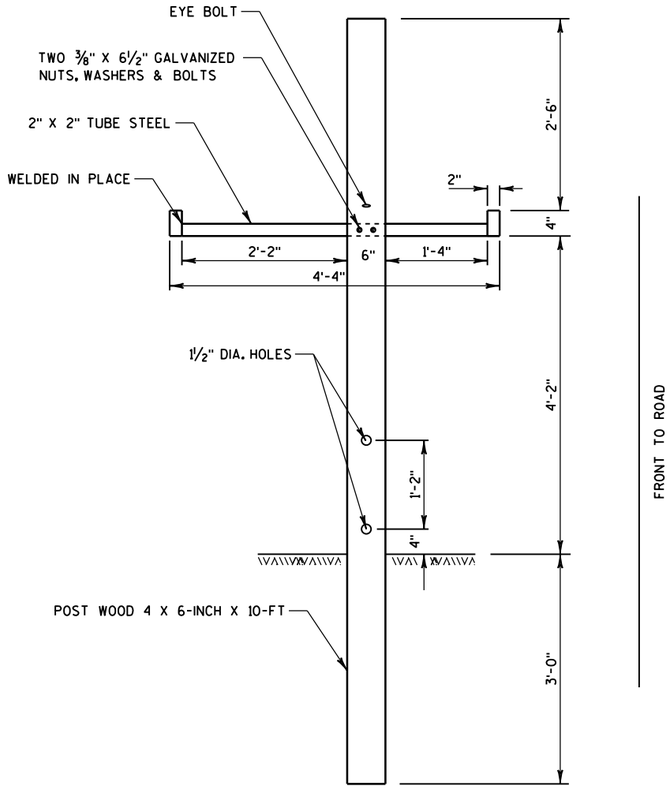
APPROVED
August 2019
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

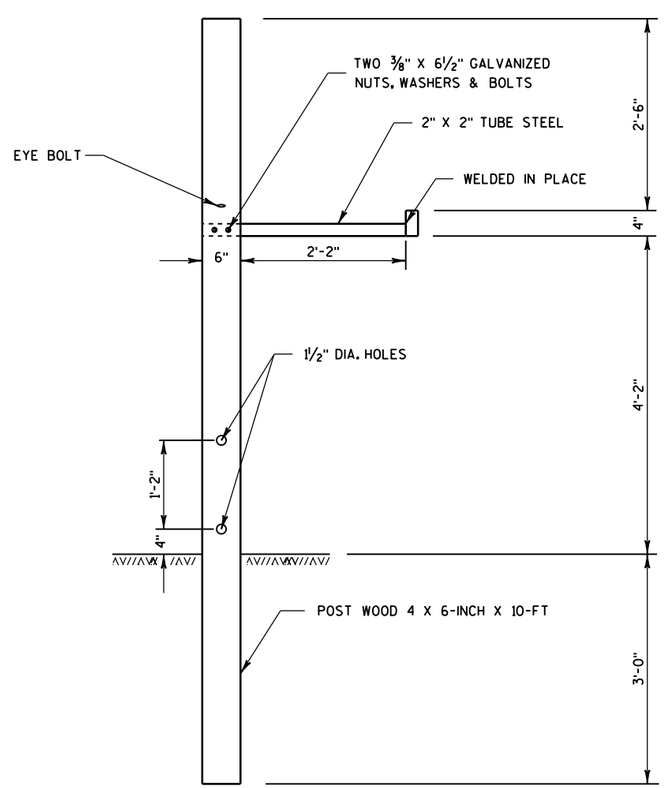
FHWA

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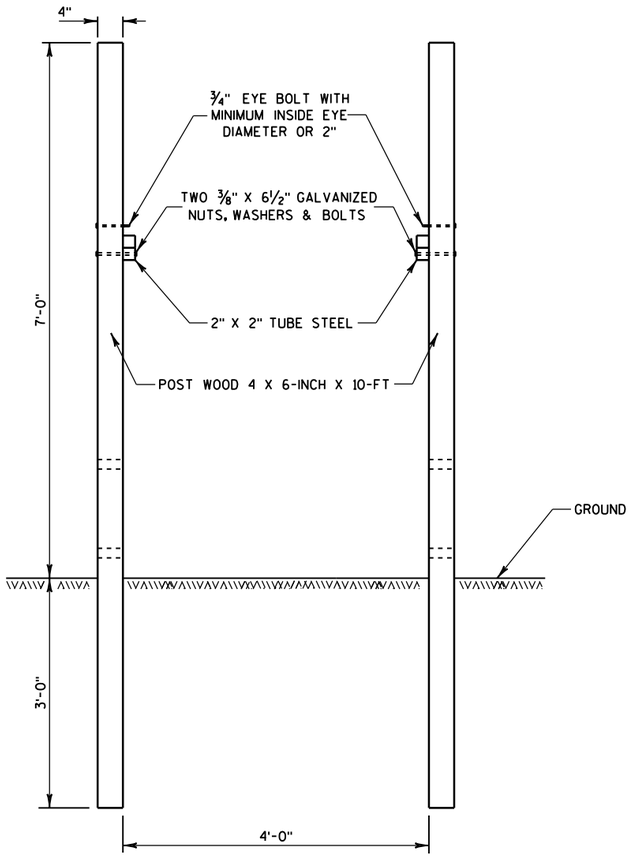
SDD 15D28 - 03



SIDE VIEW
(3 BARRICADE SYSTEM)



SIDE VIEW
(2 BARRICADE SYSTEM)



FRONT VIEW

BARRICADE RACK

* LOCATE OUTSIDE CLEAR ZONE AS DIRECTED BY ENGINEER

BARRICADE RACK	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-30-2013 DATE FHWA	/S/ Bill Wondrachek STATE TRAFFIC I MANAGEMENT E

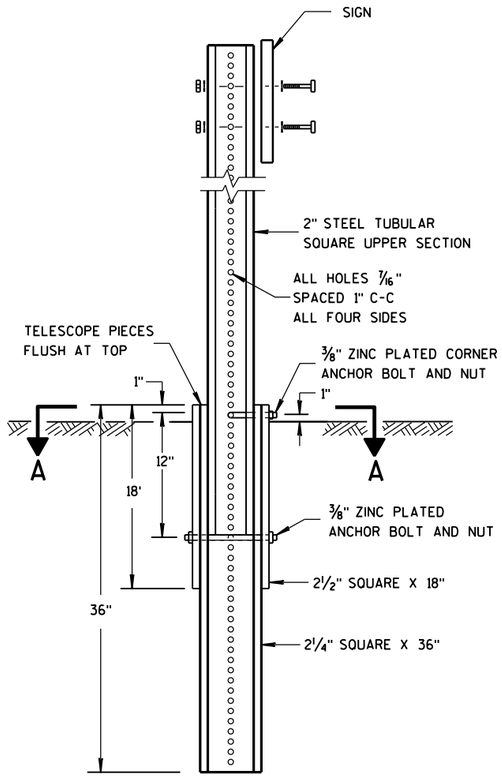
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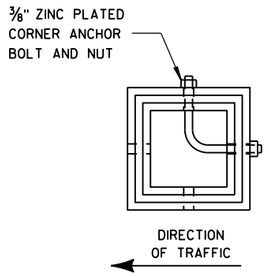
S.D.D. 15 D 36-1

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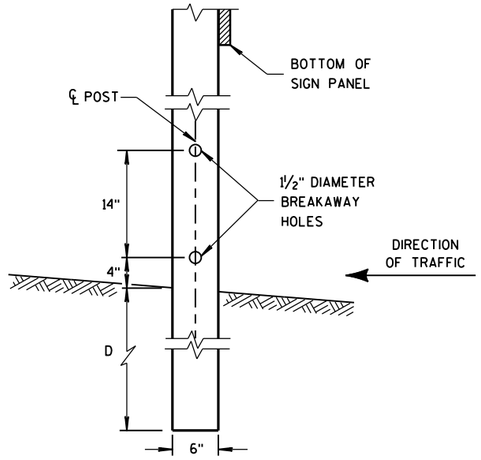
S.D.D. 15 D 36-1



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



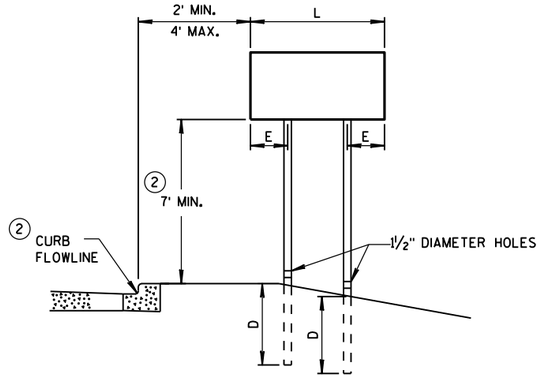
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

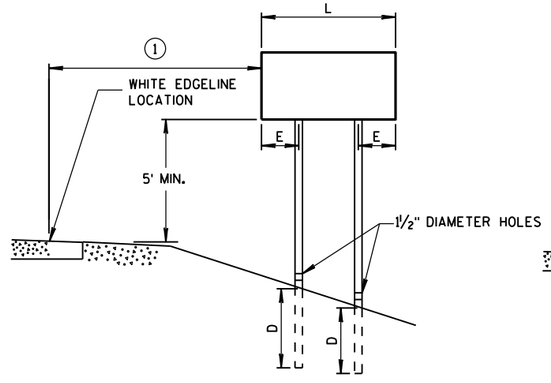
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

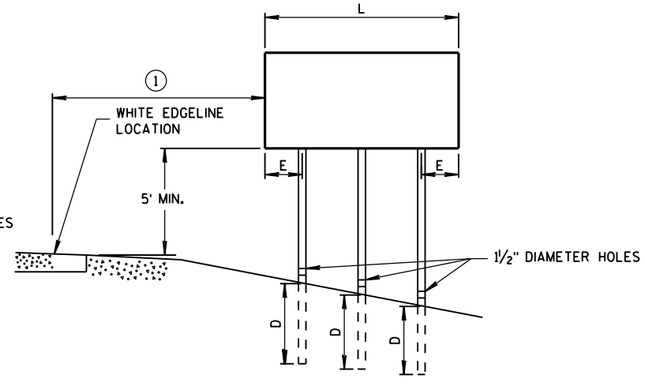
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

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

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

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

WOOD POST EMBEDMENT DEPTH

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

4" X 6" WOOD POST

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

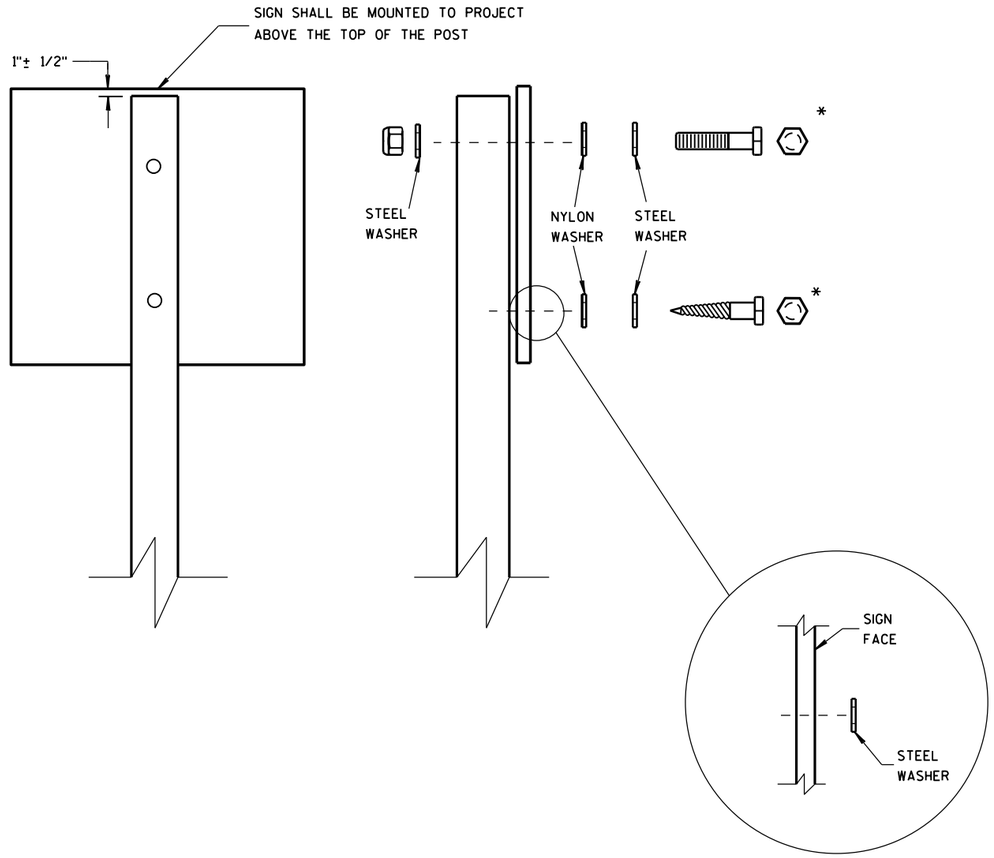
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

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

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

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

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

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

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S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

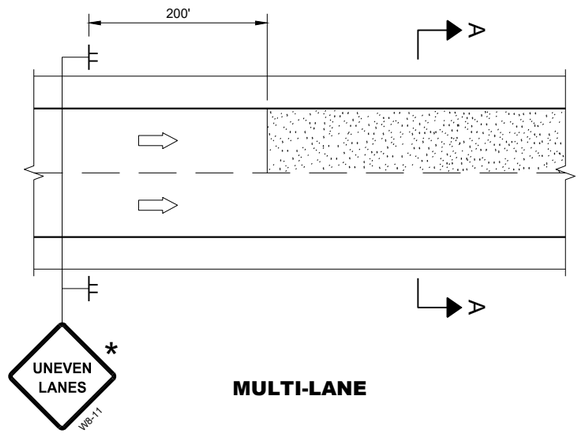
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

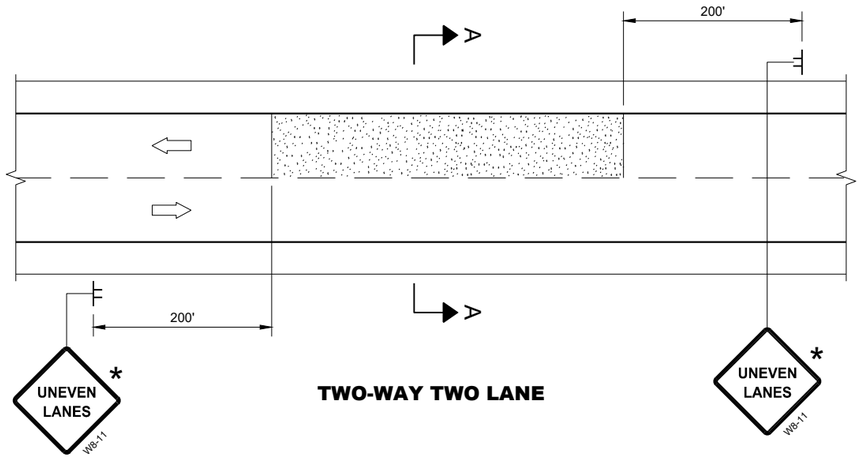
June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG 752

FHWA



MULTI-LANE



TWO-WAY TWO LANE

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

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

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

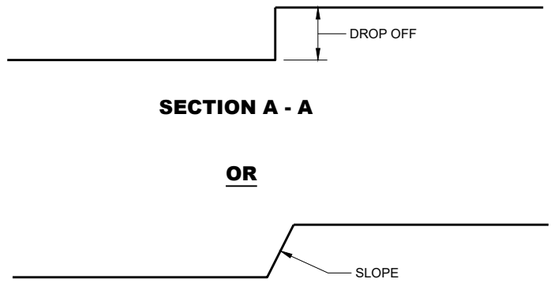
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

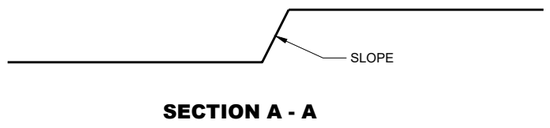
LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE

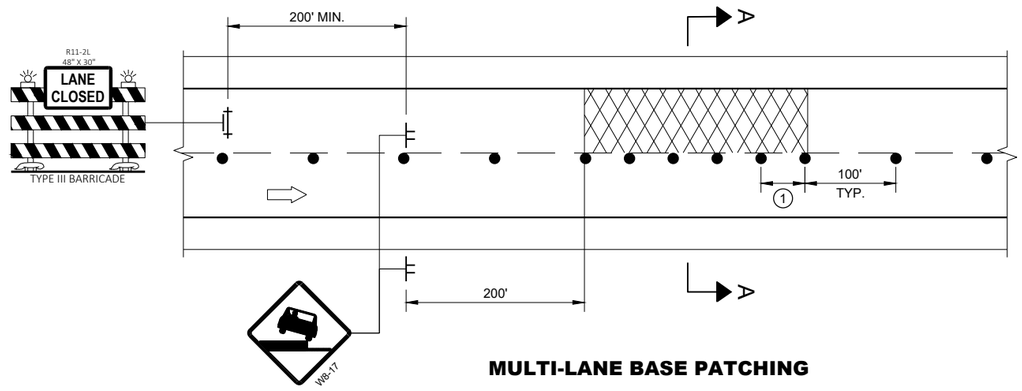


SECTION A - A

OR

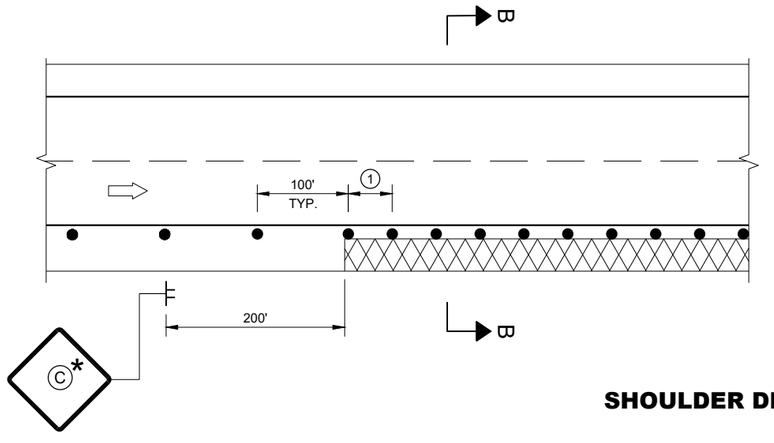


SECTION A - A

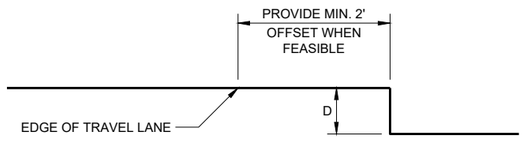


MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D39 - 02

LEGEND

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

GENERAL NOTES

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

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

THIS LANE CLOSURE IS TYPICAL FOR SHIFTING RIGHT LANE - REVERSE FOR SHIFTING LEFT LANE.

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

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

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. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

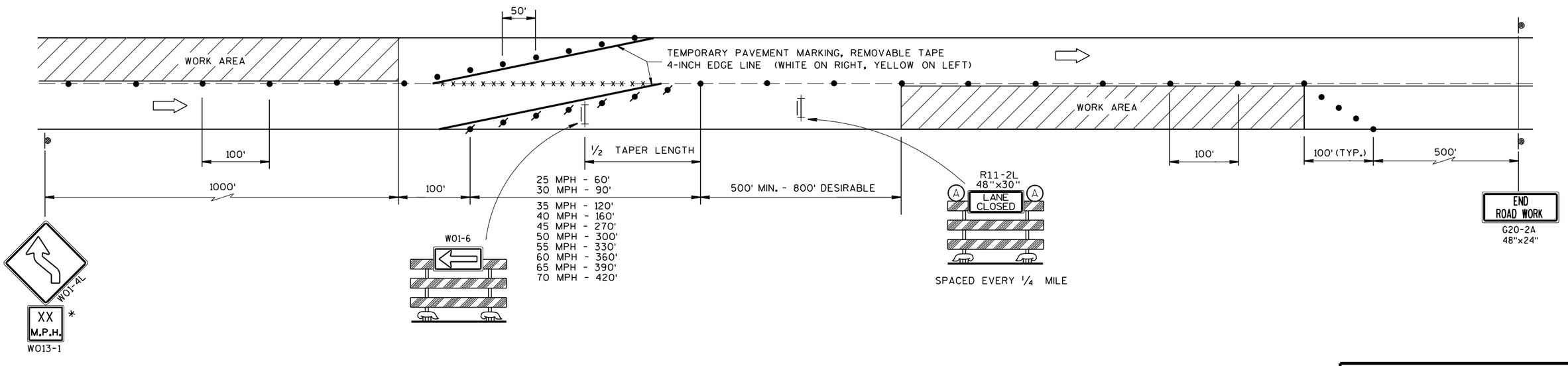
FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.



* USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED

LANE SHIFT MULTI-LANE DIVIDED OR ONE WAY ROAD

TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE WAY ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE
FHWA

/S/ Andrew I
WORK ZONE E

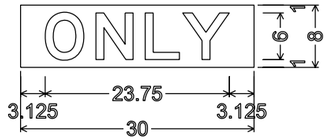
754

6

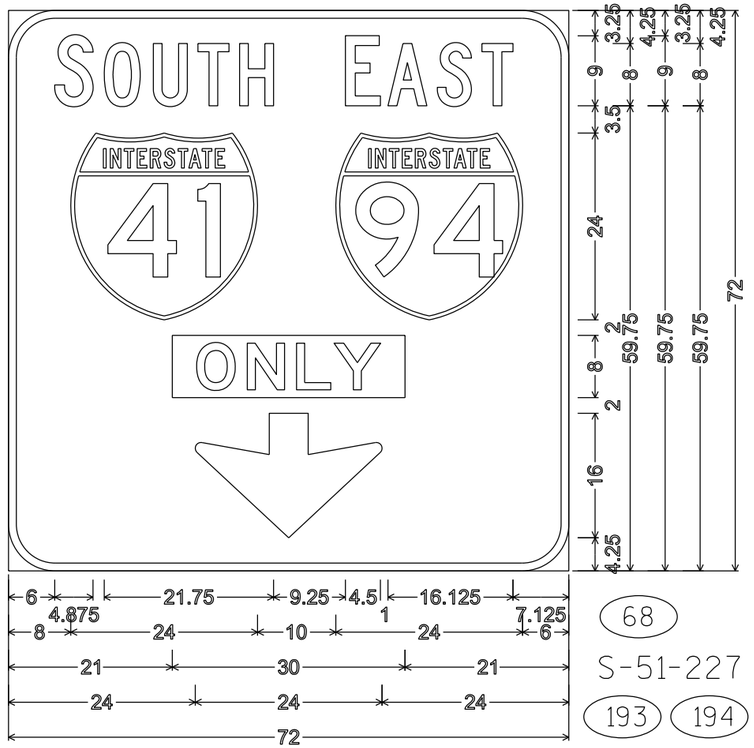
S.D.D. 15 D 40-1

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - As noted
4. Only Plaque is on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



No border, Black on Fluorescent yellow;
"ONLY" E



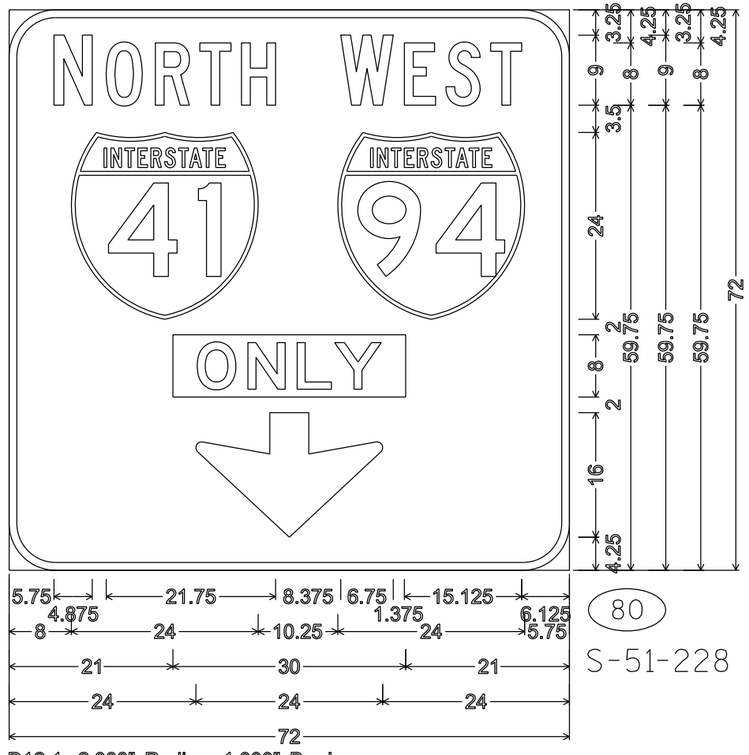
68

S-51-227

193 194

S-51-230

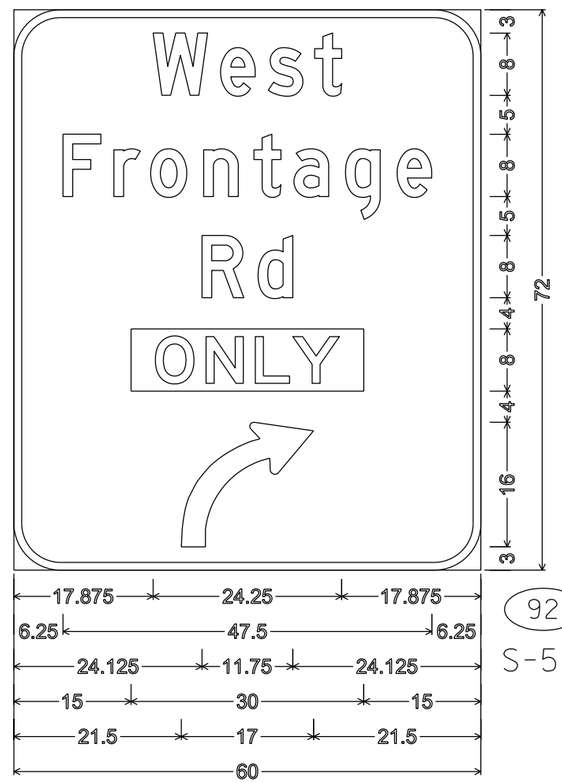
D16-1; 6.000" Radius, 1.000" Border,
"SOUTH" C; "EAST" C



80

S-51-228

D16-1; 6.000" Radius, 1.000" Border,
"NORTH" C; "WEST" C



92

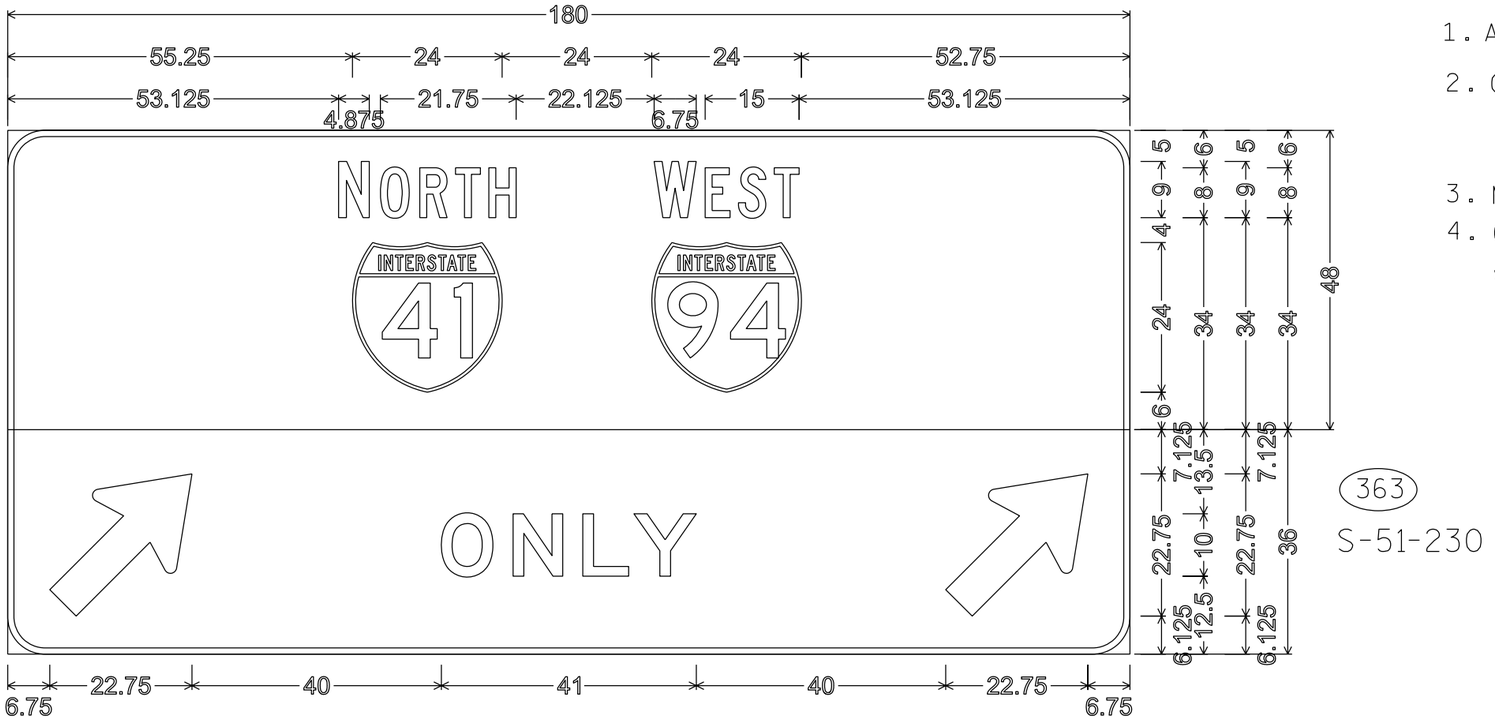
S-51-229

D16-1R;
6.000" Radius, 1.000" Border,
"West" D; "Frontage" D; "Rd" D

7

7

PROJECT NO: 1033-02-71	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING	SHEET NO: 755	E

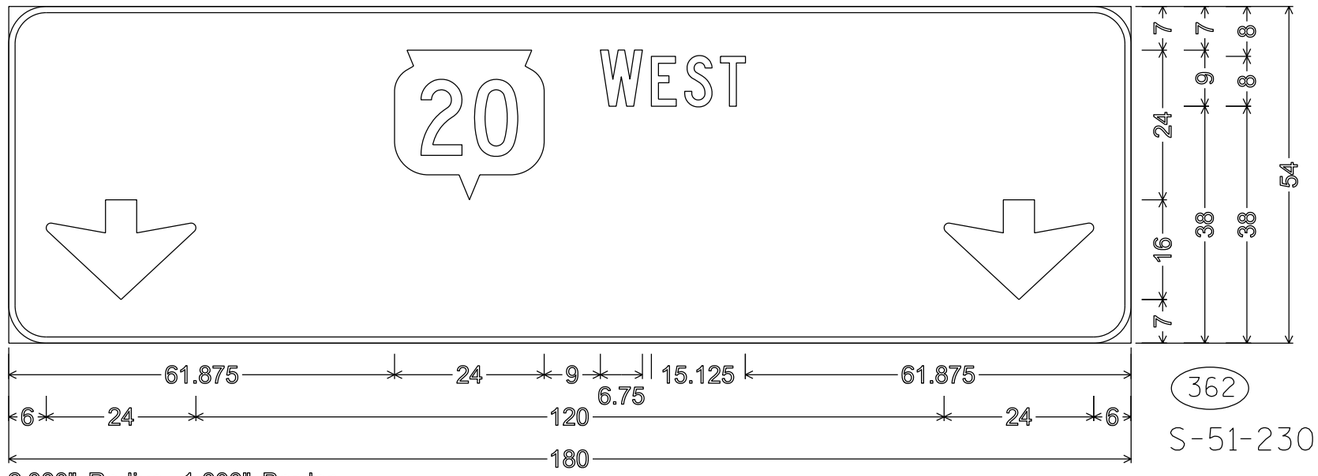


6.000" Radius, 1.000" Border,
"NORTH" C; "WEST" C;
E11-1E; 6.000" Radius, 1.000" Border, Black on Yellow;
"ONLY" E

363
S-51-230

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - As noted
4. Only Panel is on Yellow Type F Reflective Sheeting with Black Non-Reflective Message

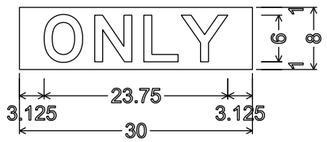


6.000" Radius, 1.000" Border,
"WEST" C

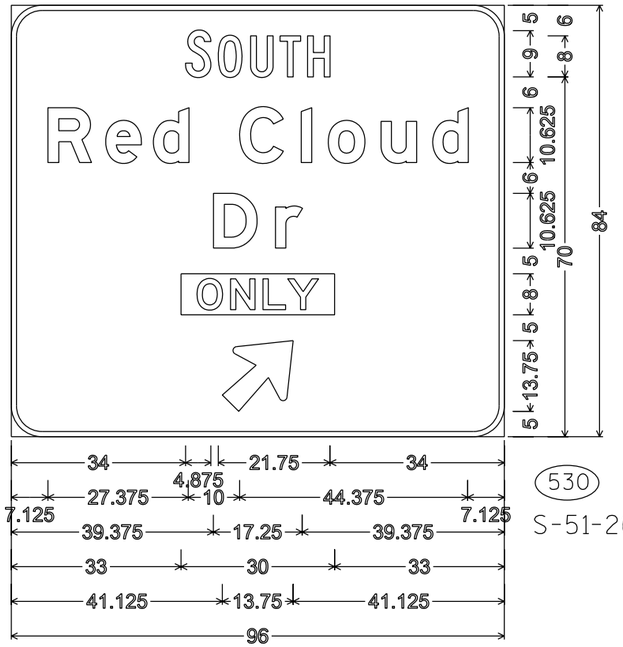
362
S-51-230

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - As noted
4. Only Plaque is on Yellow Type F Reflective Sheeting with Black Non-Reflective Message

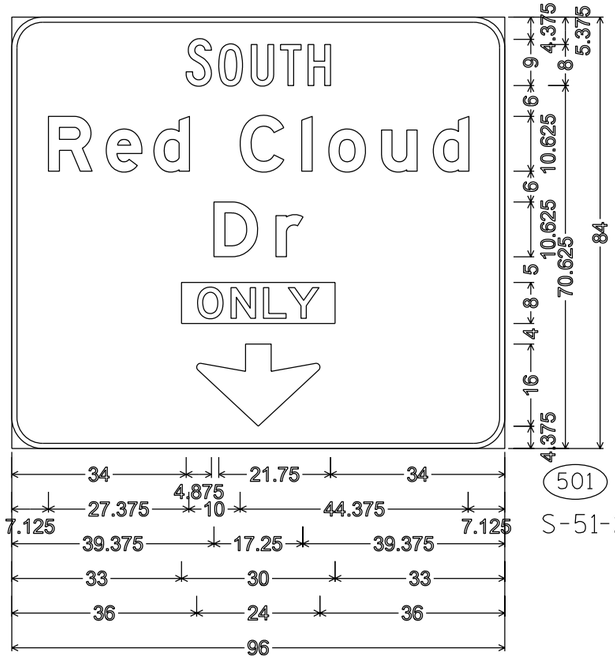


No border, Black on Fluorescent yellow;
"ONLY" E



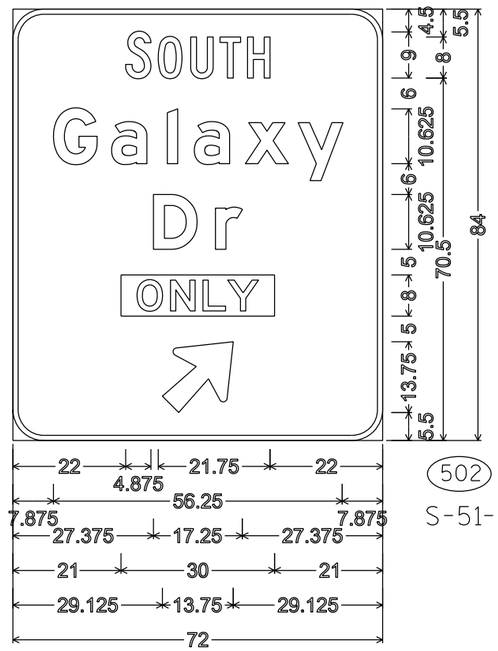
530
S-51-261

6.000" Radius, 1.000" Border,
"SOUTH" C; "Red" E Mod; "Cloud" E Mod; "Dr" E Mod



501
S-51-260

6.000" Radius, 1.000" Border,
"SOUTH" C; "Red" E Mod; "Cloud" E Mod; "Dr" E Mod



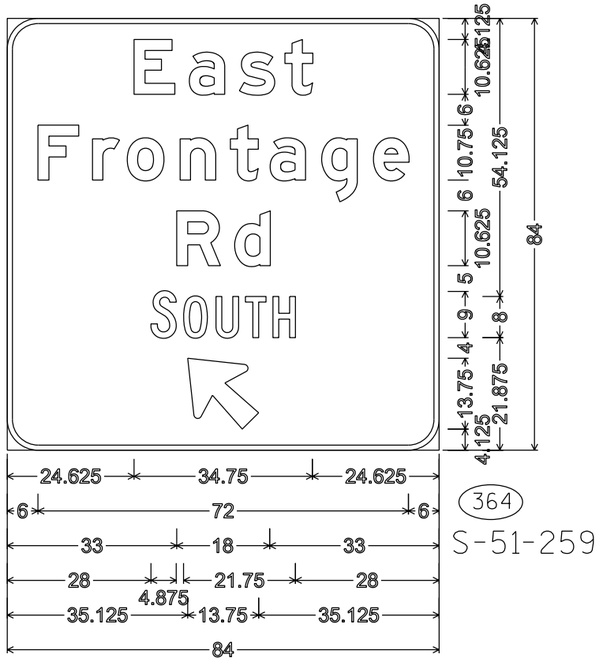
502
S-51-260

6.000" Radius, 1.000" Border,
"SOUTH" C; "Galaxy" E Mod; "Dr" E Mod

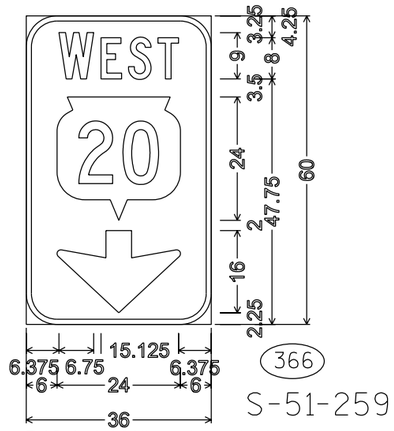
7

7

PROJECT NO: 1033-02-71	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING	SHEET NO: 757	E



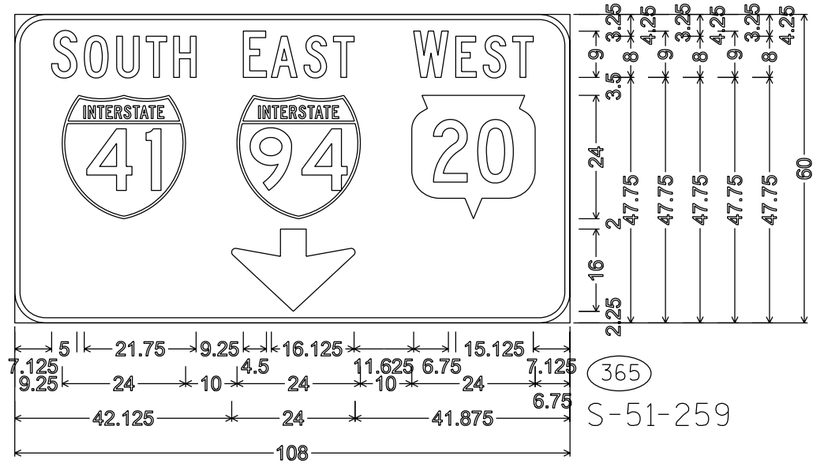
6.000" Radius, 1.000" Border,
"East" E Mod; "Frontage" E Mod; "Rd" E Mod; "SOUTH" C



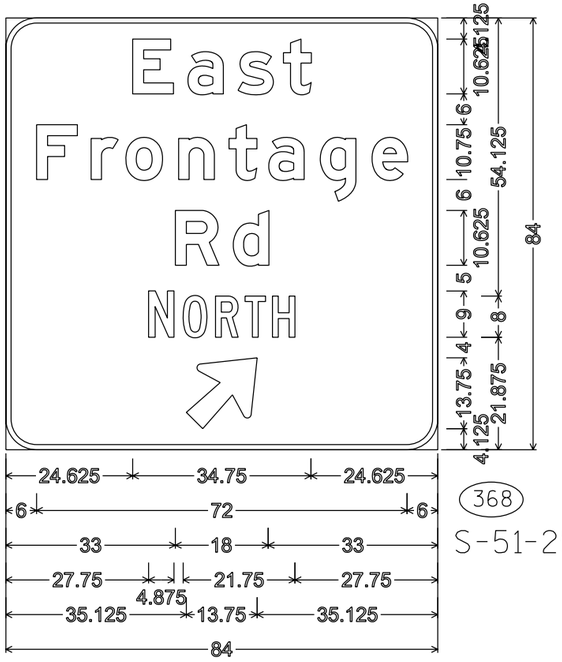
D16-1; 6.000" Radius, 1.000" Border,
"WEST" C

NOTES

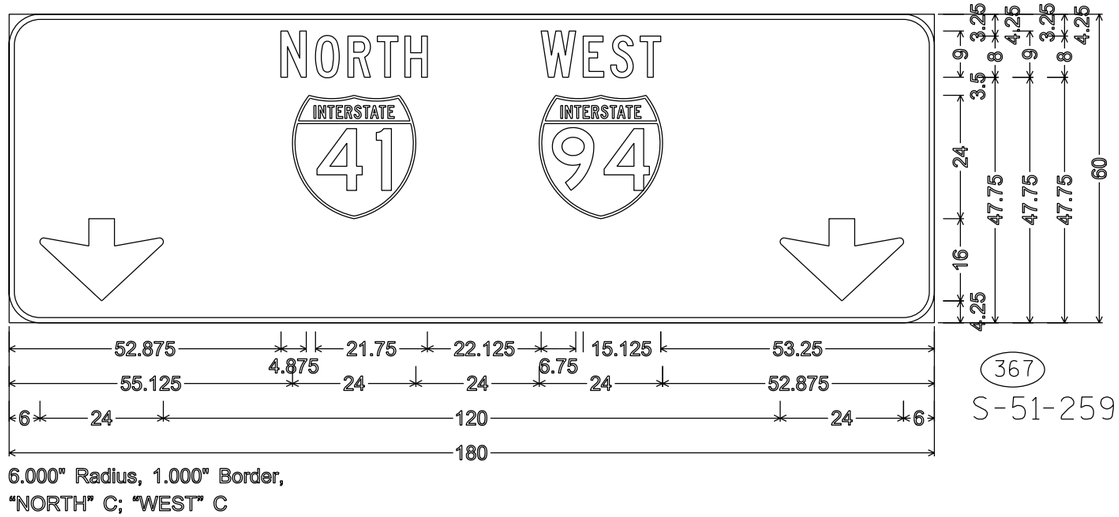
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - As noted



6.000" Radius, 1.000" Border,
"SOUTH" C; "EAST" C; "WEST" C



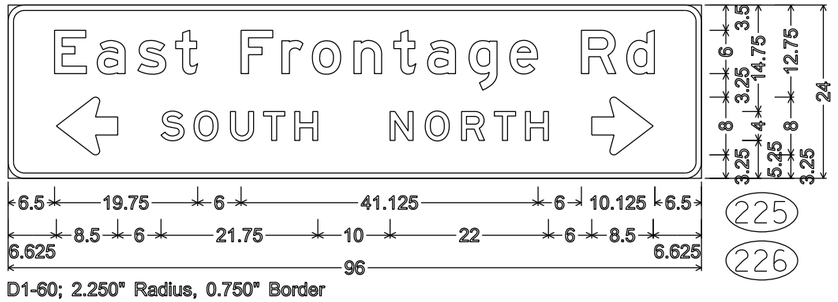
6.000" Radius, 1.000" Border,
"East" E Mod; "Frontage" E Mod; "Rd" E Mod; "NORTH" C



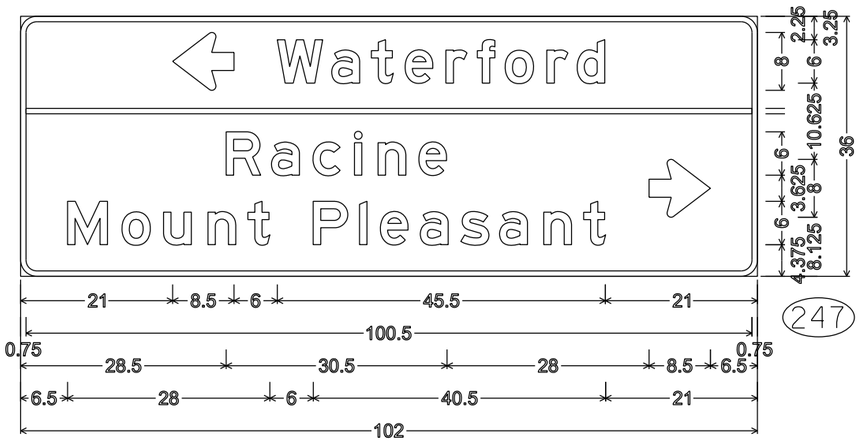
6.000" Radius, 1.000" Border,
"NORTH" C; "WEST" C

NOTES

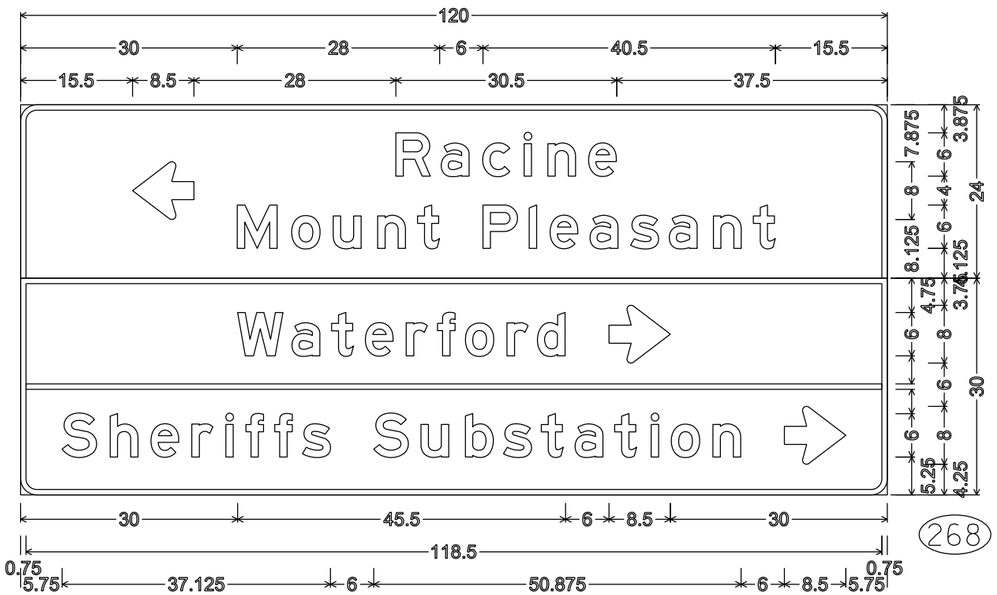
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E except as noted
4. M1-94H base material is .125" aluminum



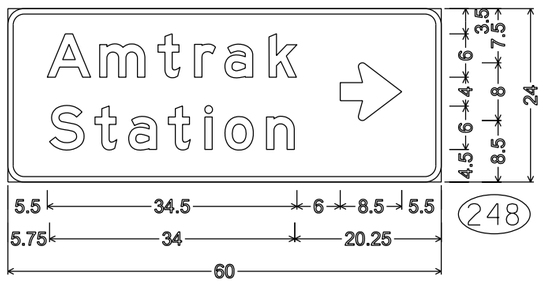
D1-60; 2.250" Radius, 0.750" Border



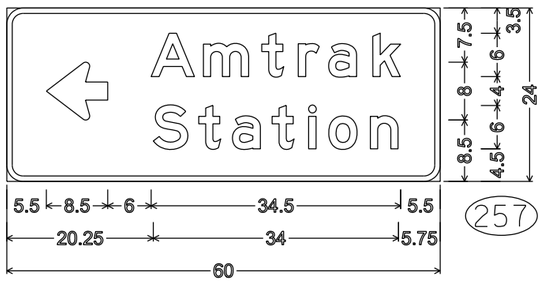
D1-3; 2.250" Radius, 0.750" Border



D1-2; 2.250" Radius, 0.750" Border



D1-2;
2.250" Radius, 0.750" Border



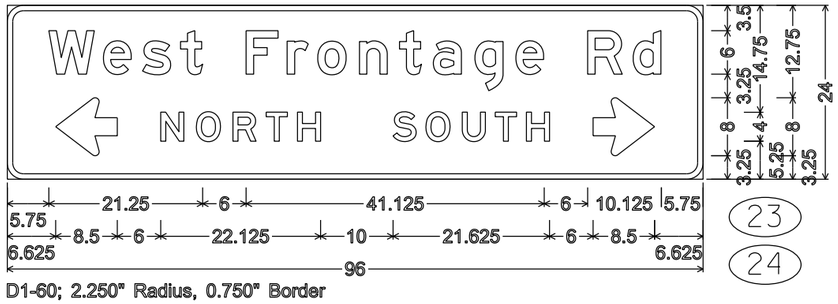
D1-2;
2.250" Radius, 0.750" Border

7

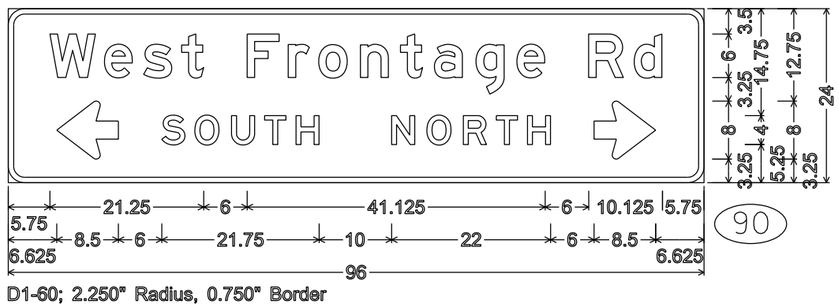
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NOTES

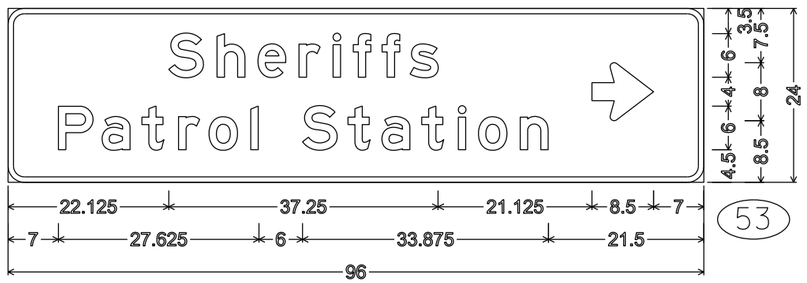
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E except as noted
4. M1-94H base material is .125" aluminum



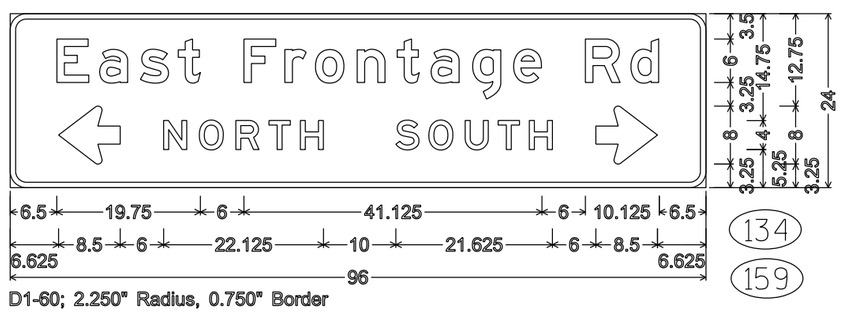
D1-60; 2.250" Radius, 0.750" Border



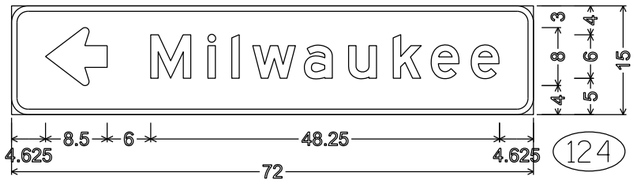
D1-60; 2.250" Radius, 0.750" Border



D1-2; 2.250" Radius, 0.750" Border



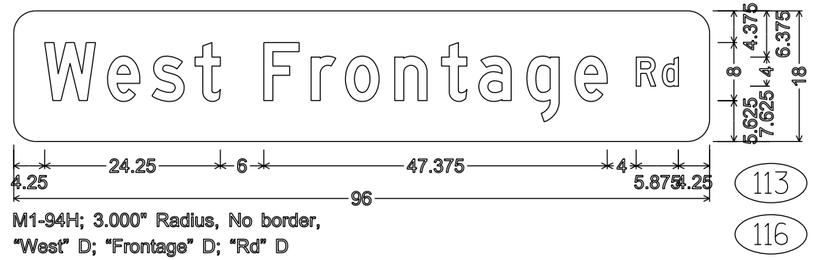
D1-60; 2.250" Radius, 0.750" Border



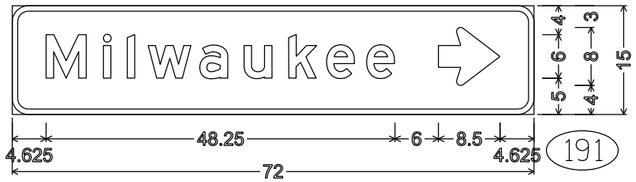
D1-1; 2.250" Radius, 0.750" Border



D1-1;
2.250" Radius, 0.750" Border



M1-94H; 3.000" Radius, No border,
"West" D; "Frontage" D; "Rd" D



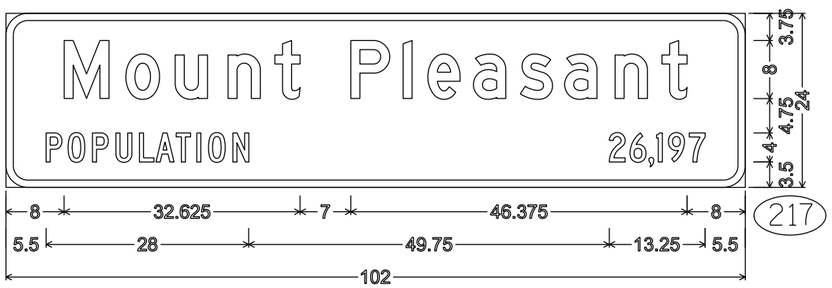
D1-1; 2.250" Radius, 0.750" Border



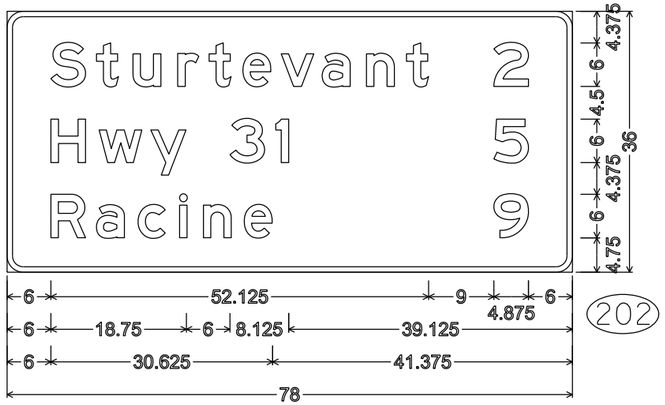
D1-1;
2.250" Radius, 0.750" Border



M1-94H; 3.000" Radius, No border,
"East" D; "Frontage" D; "Rd" D

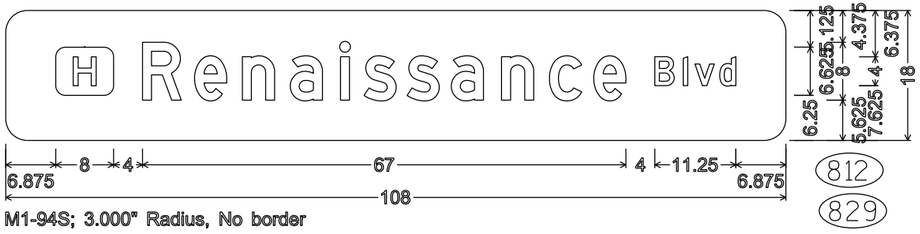


I2-3; 3.000" Radius, 1.000" Border,
"Mount" D; "Pleasant" D; "POPULATION" C; "26,197" C

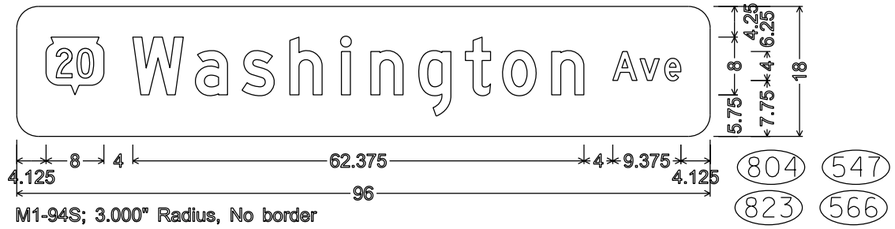


D2-3; 2.250" Radius, 0.750" Border

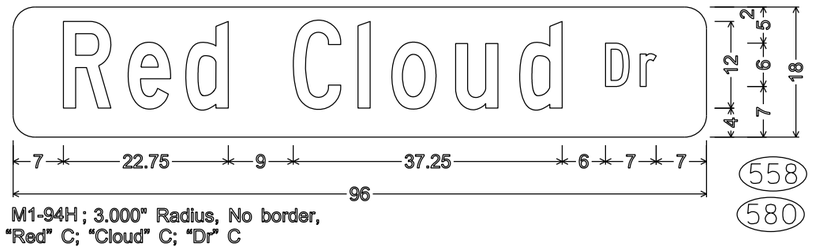
PROJECT NO: 1033-02-71	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING	SHEET NO: 760	E



M1-94S; 3.000" Radius, No border



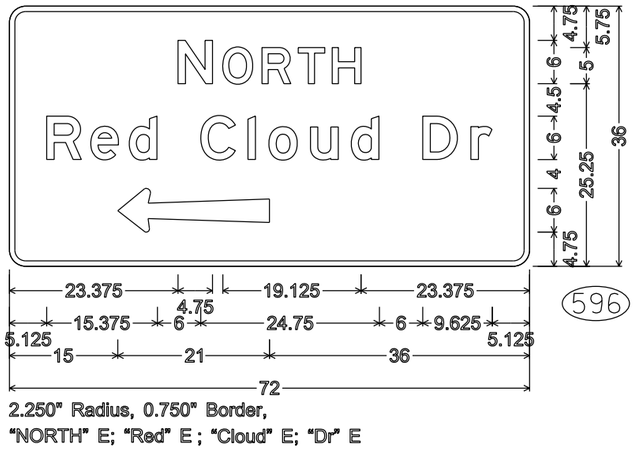
M1-94S; 3.000" Radius, No border



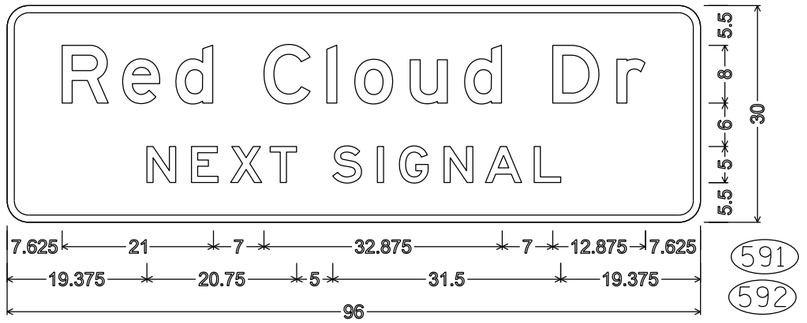
M1-94H ; 3.000" Radius, No border,
"Red" C; "Cloud" C; "Dr" C

NOTES

1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - D except as noted
4. M1-94S base material is .125" aluminum



2.250" Radius, 0.750" Border,
"NORTH" E; "Red" E ; "Cloud" E; "Dr" E



D1-65; 3.000" Radius, 1.000" Border,
"Red" E; "Cloud" E; "Dr" E; "NEXT" E ; "SIGNAL" E

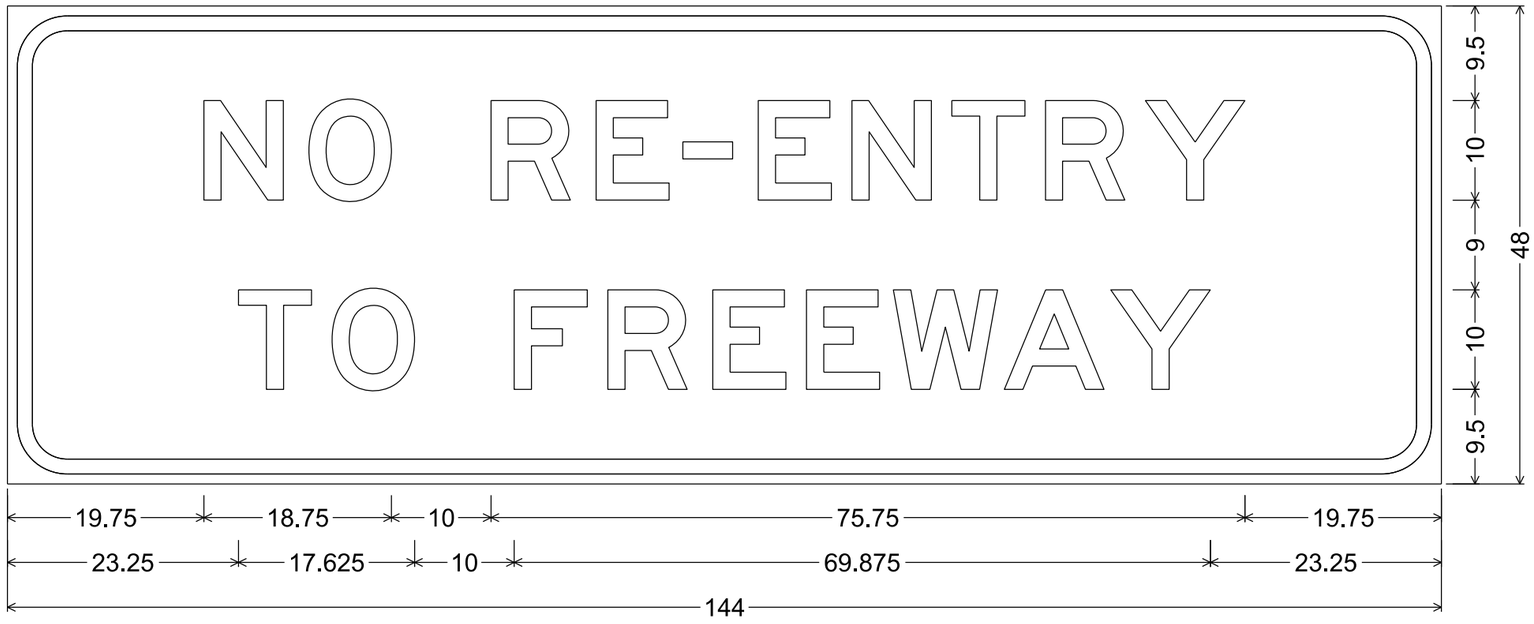
7

7

PROJECT NO: 1033-02-71	HWY: STH 20	COUNTY: RACINE	PERMANENT SIGNING	SHEET NO: 761	E

NOTES

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



6.000" Radius, 1.500" Border, 1.000" Indent

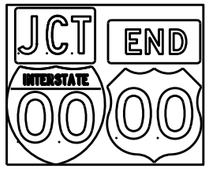
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7

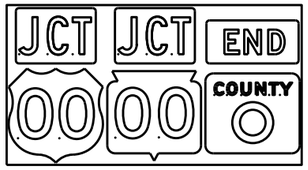
TYPICAL ASSEMBLIES



J1-1



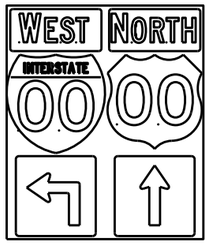
J1-2



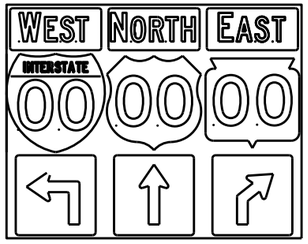
J1-3



J2-1



J2-2

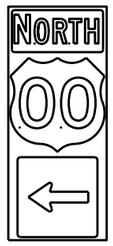


J2-3

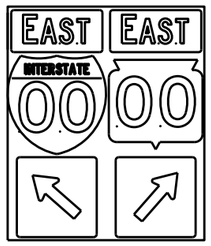


JV

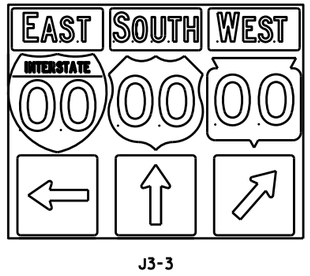
(Typical Vertical J-Assembly
See Note 10 and 11)



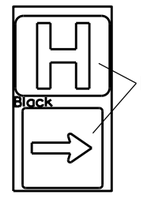
J3-1



J3-2



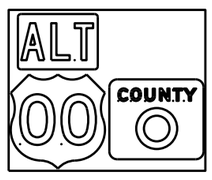
J3-3



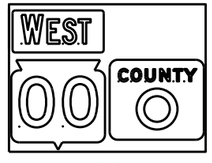
JH-1



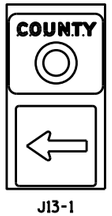
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

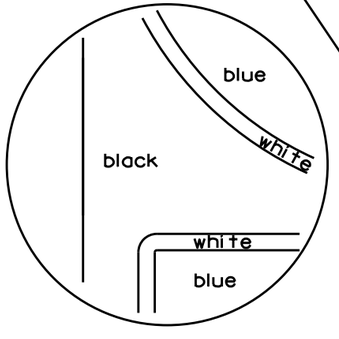


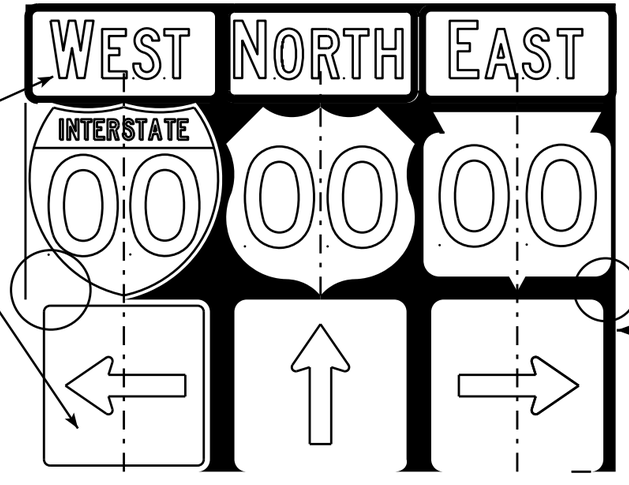
J23-1

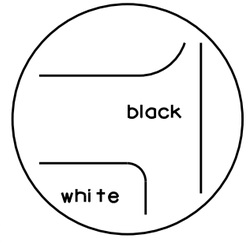


J22-1

[blue background with interstate]







[black background]

NOTES

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

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

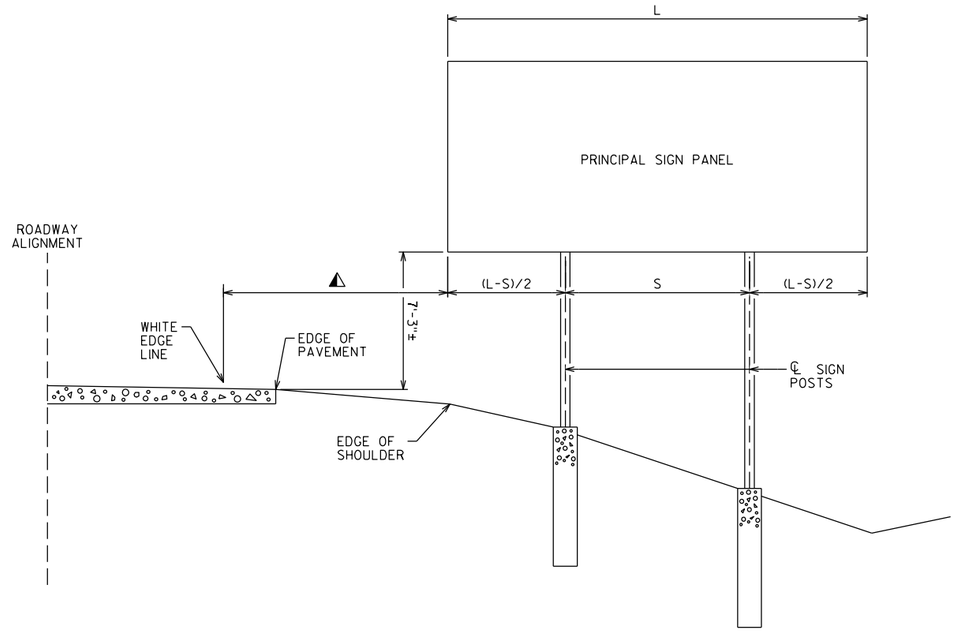
DATE 2/06/14 PL... A2-1S.8

PROJECT NO:

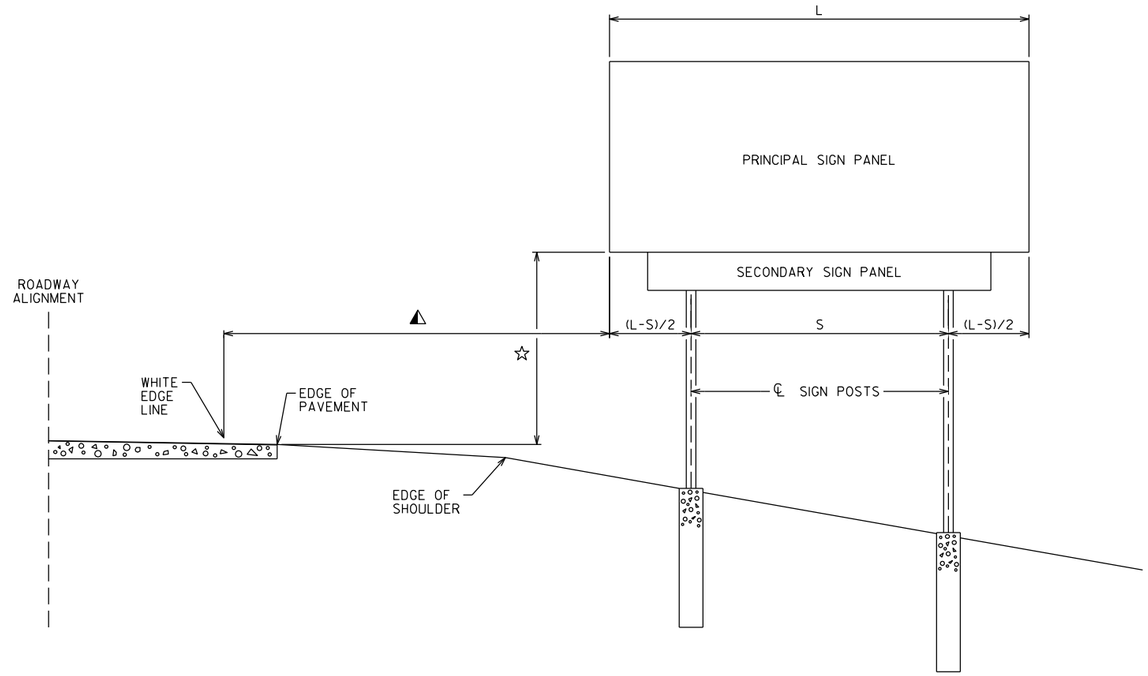
SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

WISDOT/CADDS SHEET 42



INSTALLATION WITHOUT SECONDARY SIGN



INSTALLATION WITH SECONDARY SIGN

TYPE 1 SIGN INSTALLATION NOTES:

FOR A 2-POST INSTALLATION, "S" EQUALS 3L/5, BUT SHALL NOT BE LESS THAN 6'-0".

FOR A 3-POST INSTALLATION, "S" EQUALS 5L/7, BUT SHALL NOT BE LESS THAN 12'-0". THE SPACING BETWEEN ANY TWO POSTS SHALL NOT BE LESS THAN 6'-0".

◭ UNLESS NOTED IN THE PLANS, THE SIGN OFFSET DISTANCE SHALL BE A MINIMUM OF 17'-6" FROM THE WHITE EDGE LINE, DESIRABLE 30'-0".

THE ± TOLERANCE SHOWN ON THIS SHEETS IS 3".

THE VERTICAL SIGN HEIGHT CLEARANCES SHOWN ON THIS SHEET ARE MEASURED FROM THE BOTTOM OF THE SIGN PANEL TO THE NEAR EDGE OF PAVEMENT.

☆ THE VERTICAL CLEARANCE SHALL BE 8'-3"± WHEN THE SECONDARY SIGN HEIGHT IS 3'-0" OR LESS. FOR SECONDARY SIGN HEIGHTS LARGER THAN 3'-0", THE VERTICAL CLEARANCE TO THE BOTTOM OF THE SECONDARY SIGN PANEL SHALL BE 5'-3"±.

POST LENGTHS SHOWN IN THE MISCELLANEOUS QUANTITIES ARE ESTIMATED LENGTHS. THE CONTRACTOR SHALL VERIFY POST LENGTHS AT THE TIME OF FINAL GRADING.

REFER TO THE TRAFFIC ENGINEERING OPERATIONS AND SAFETY MANUAL FOR FURTHER GUIDANCE ON MINIMUM VERTICAL CLEARANCE REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE BTO TYPE I SIGNS

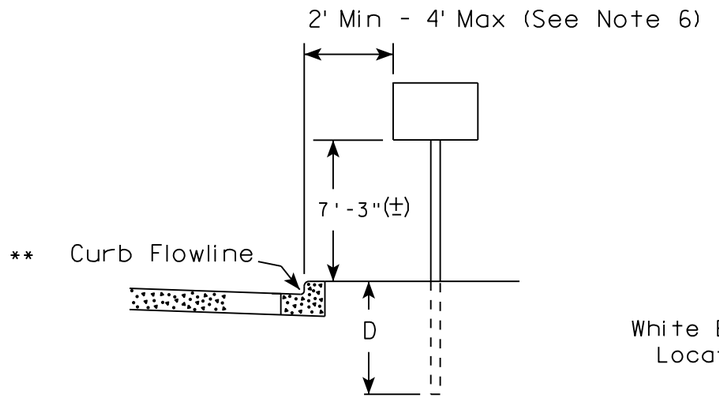
DRAWN BY | PLANS CK'D.

TYPICAL TYPE I SIGN INSTALLATION

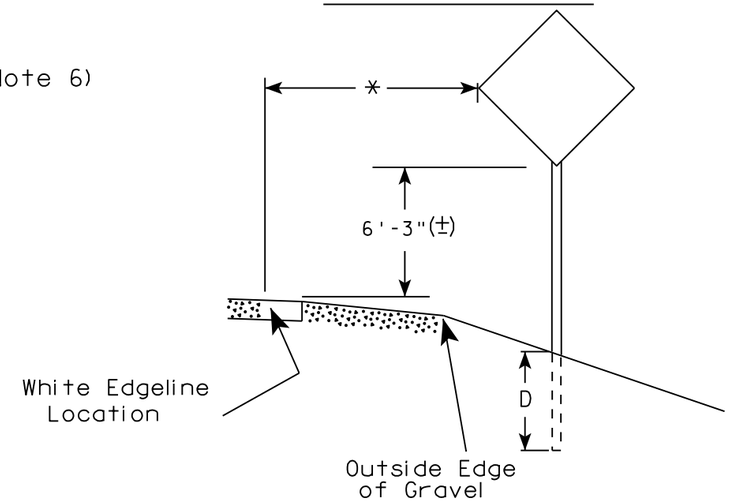
SHEET A4-1.10

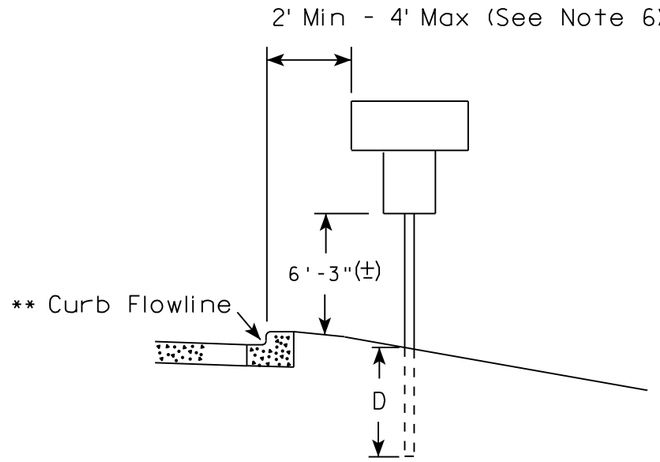
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 764	E

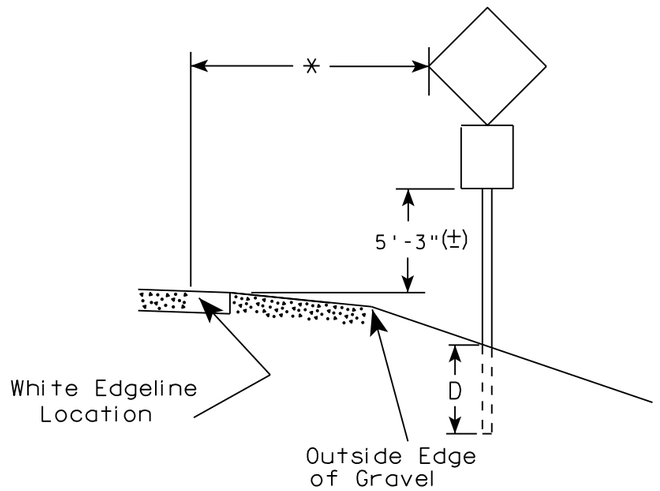
URBAN AREA



RURAL AREA (See Note 2)







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

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

GENERAL NOTES

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

POST EMBEDMENT DEPTH

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

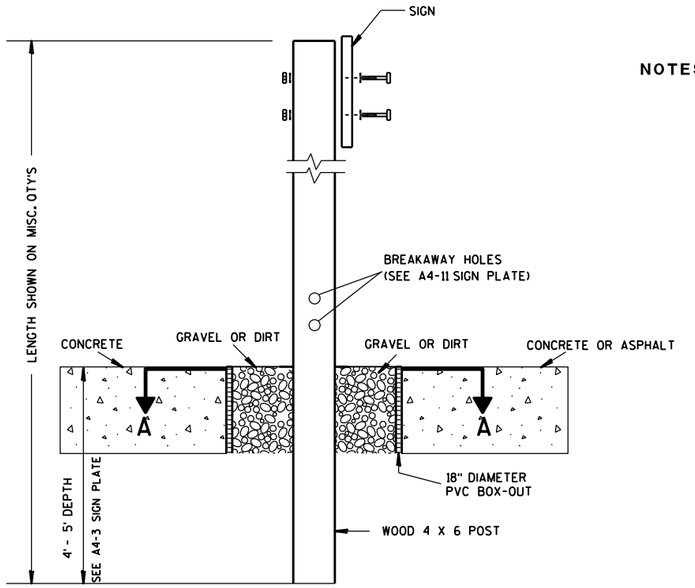
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

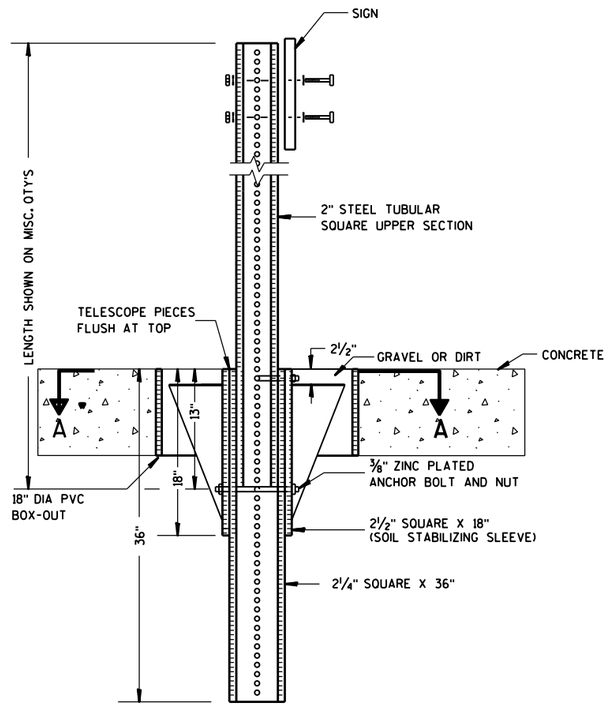
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 765	E



ELEVATION VIEW

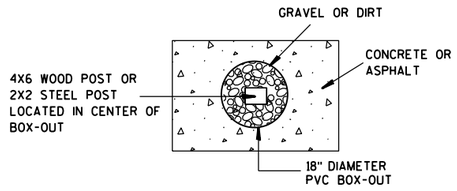
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

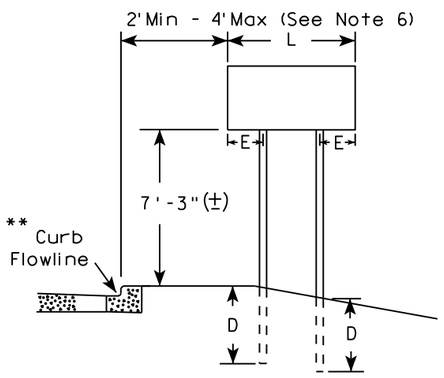
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

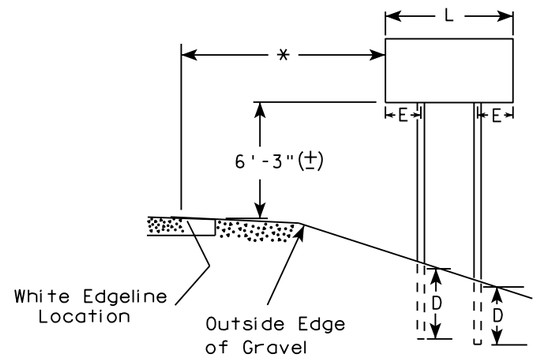
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

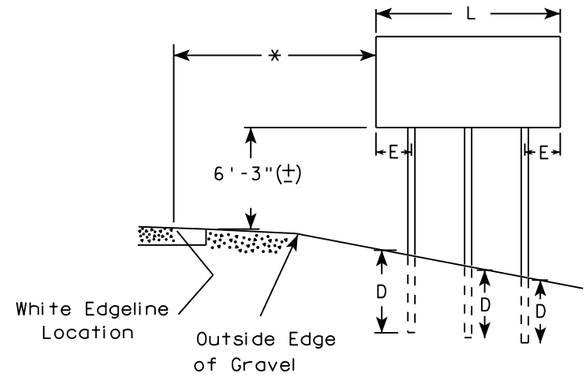
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

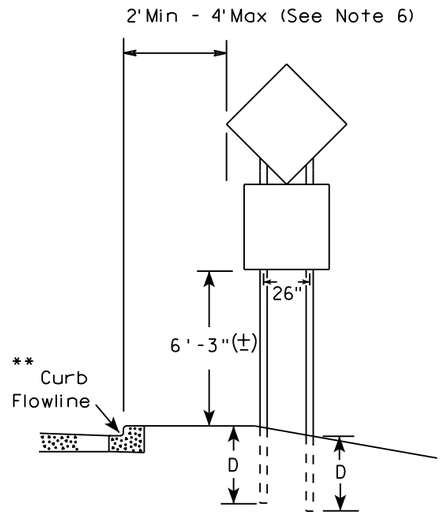
URBAN AREA



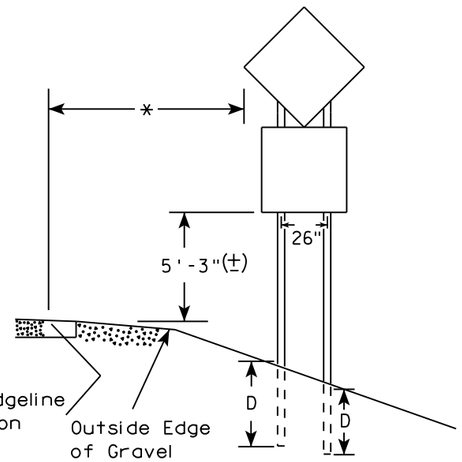
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



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

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

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

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

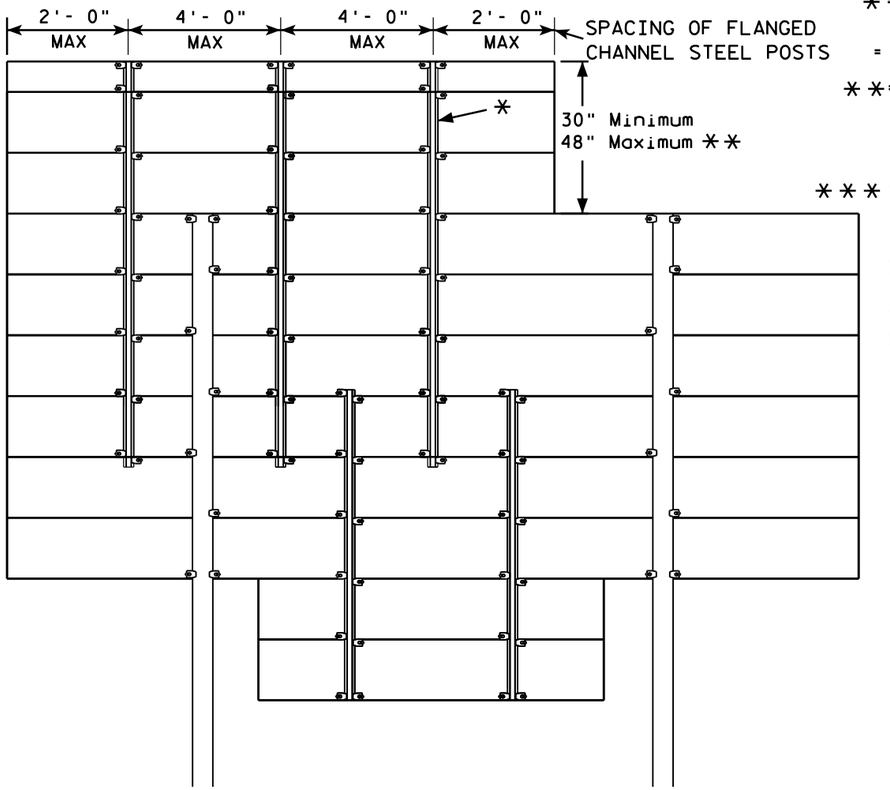
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 767	E

GROUND MOUNTED SIGN

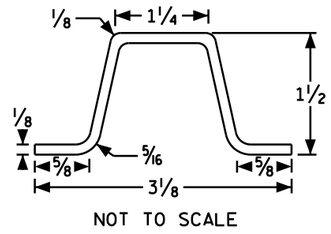


* =2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

** =FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

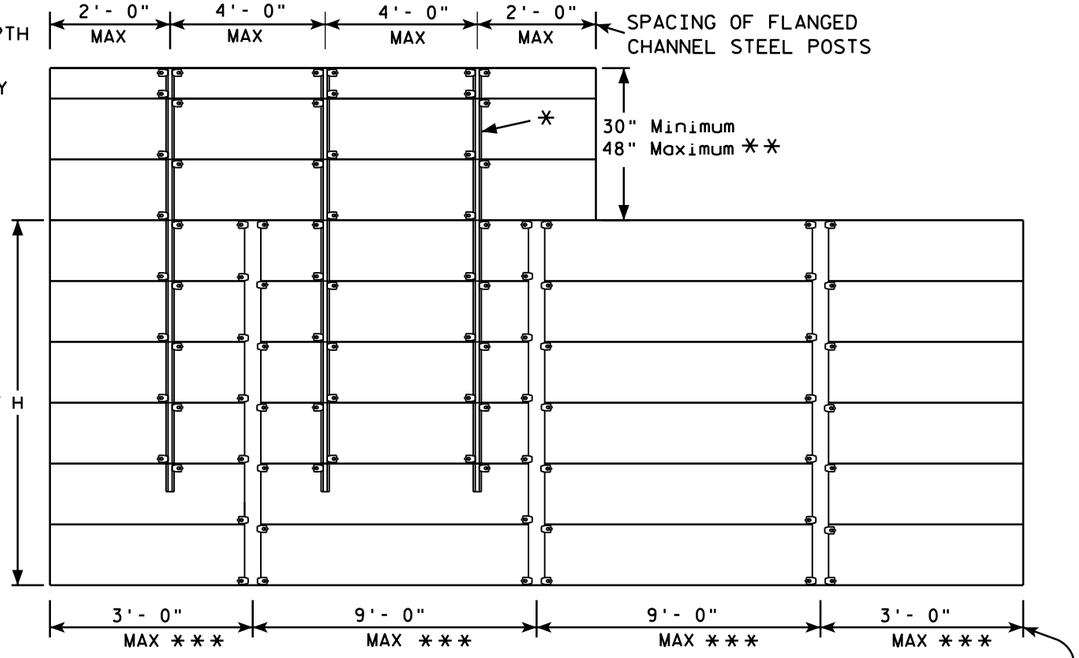
*** THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 16 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 16 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAIL



NOT TO SCALE

SIGN BRIDGE MOUNTED SIGN



GENERAL NOTES

1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

   PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS
   PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS
   PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

   If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.
3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.
4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)
6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

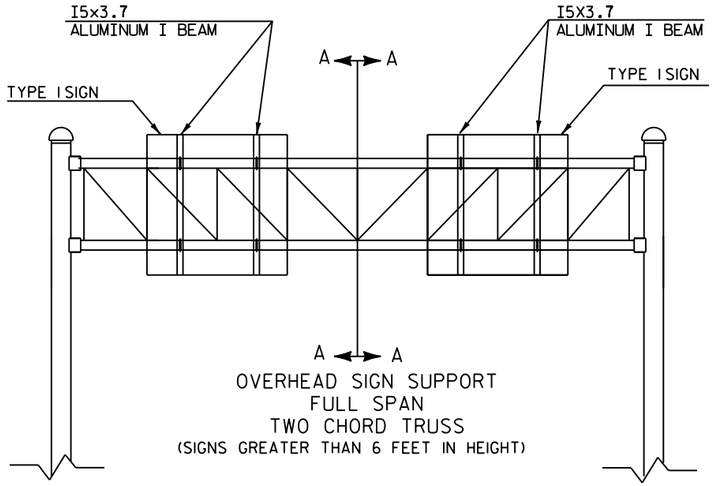
ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

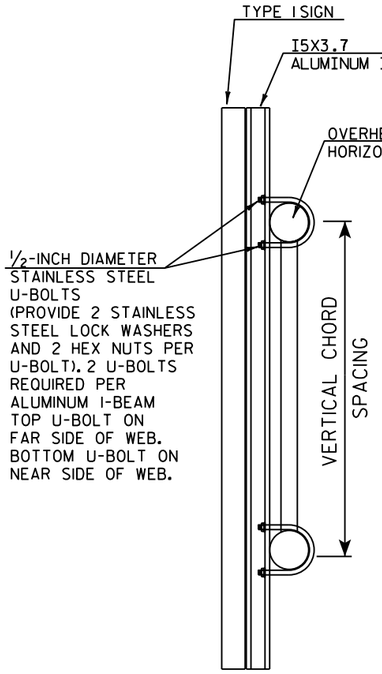
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/05/13 PLAT 768 A4-6.12

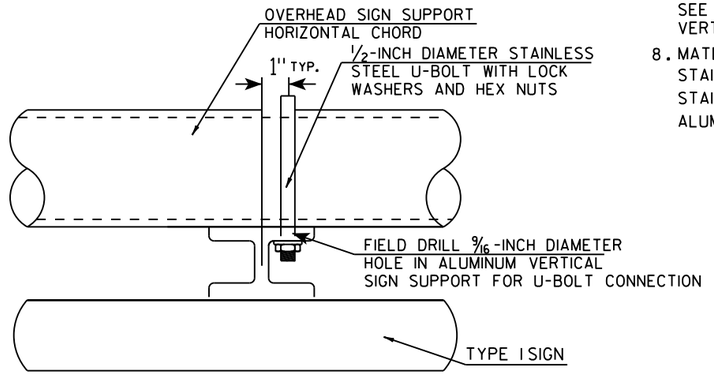
PROJECT NO:				SHEET NO:	E



OVERHEAD SIGN SUPPORT
FULL SPAN
TWO CHORD TRUSS
(SIGNS GREATER THAN 6 FEET IN HEIGHT)



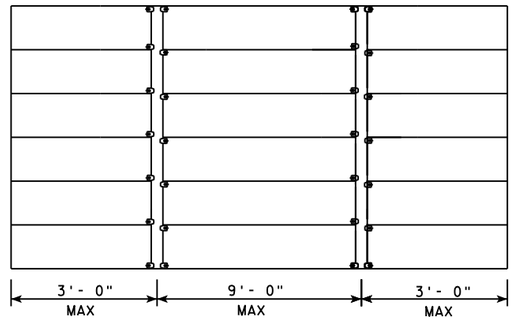
CUT SECTION A-A



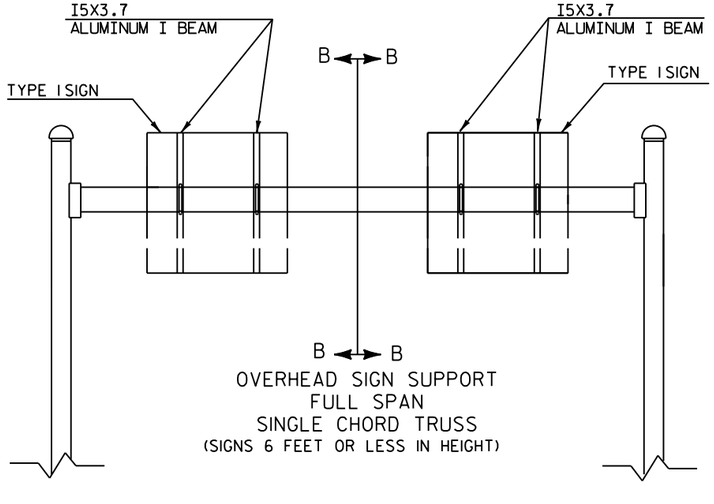
TYPICAL SIGN CONNECTION FOR
TWO CHORD TRUSS
PLAN VIEW

GENERAL NOTES

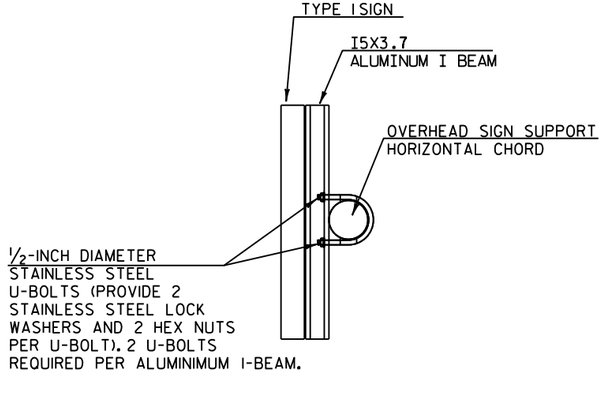
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. MINIMUM NUMBER OF BRACKETS PER SIGN IS TWO. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.



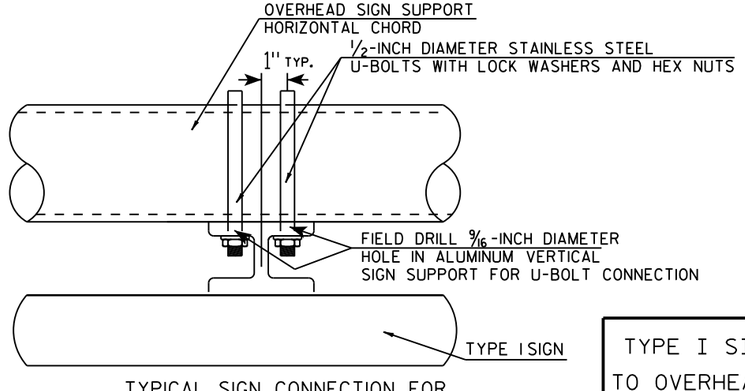
SPACING OF I5X3.7 ALUMINUM
VERTICAL SIGN SUPPORT



OVERHEAD SIGN SUPPORT
FULL SPAN
SINGLE CHORD TRUSS
(SIGNS 6 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
SINGLE CHORD TRUSS
PLAN VIEW

TYPE I SIGN CONNECTION
TO OVERHEAD SIGN SUPPORT

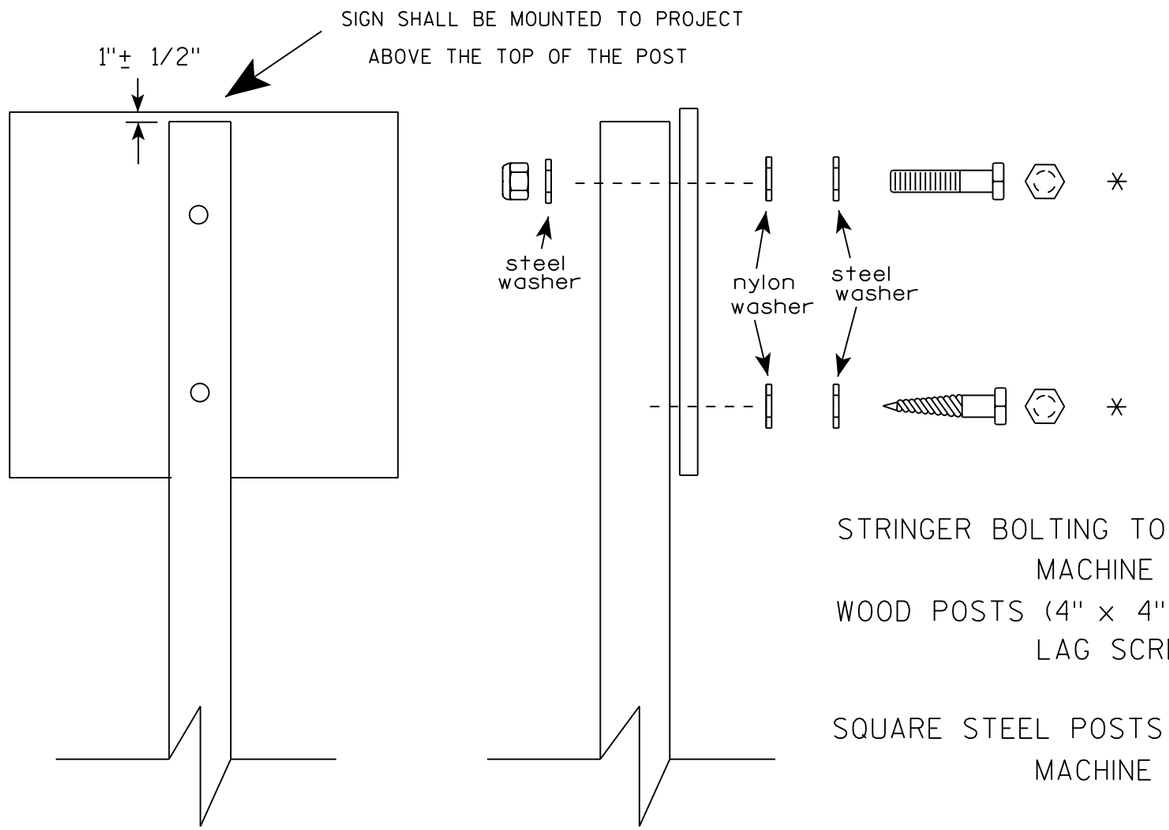
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/15 PLATE NO. A4-7.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A47.DGN PLOT DATE : 01-DEC-2015 17:42 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 38.916838:1.000000



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

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

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

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

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

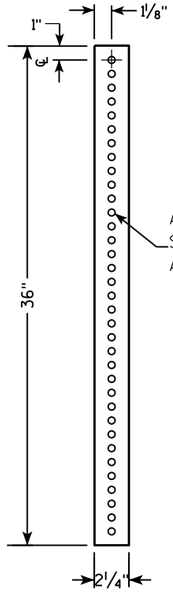
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

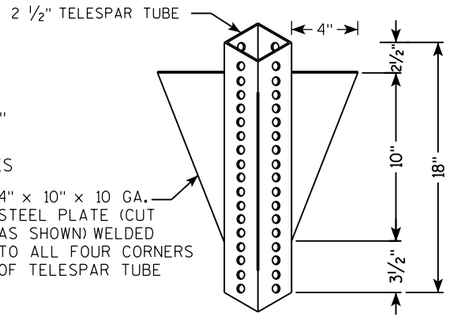
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

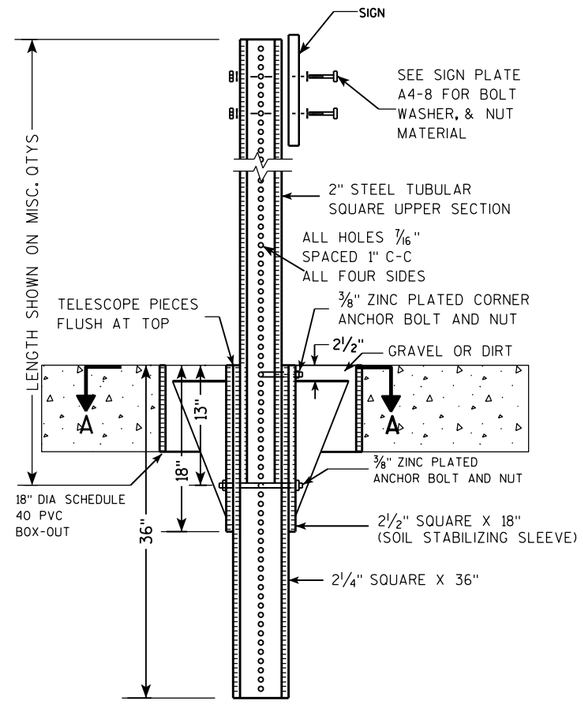
2 ¼ " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



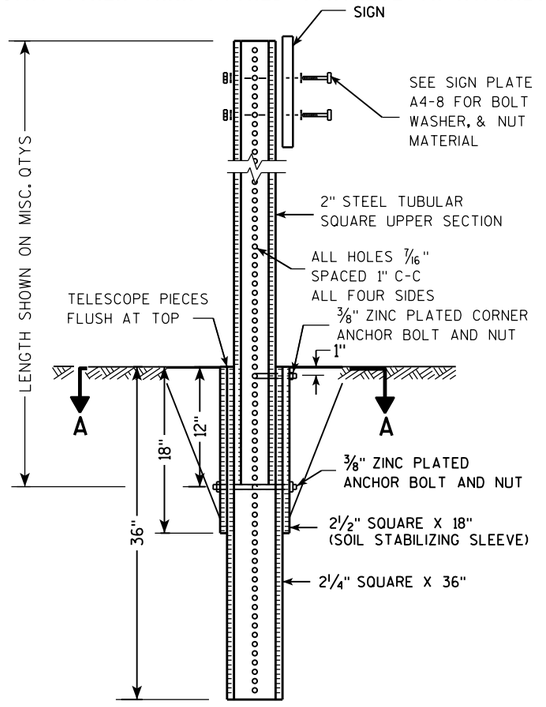
2 ½ " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

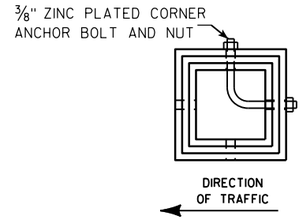


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

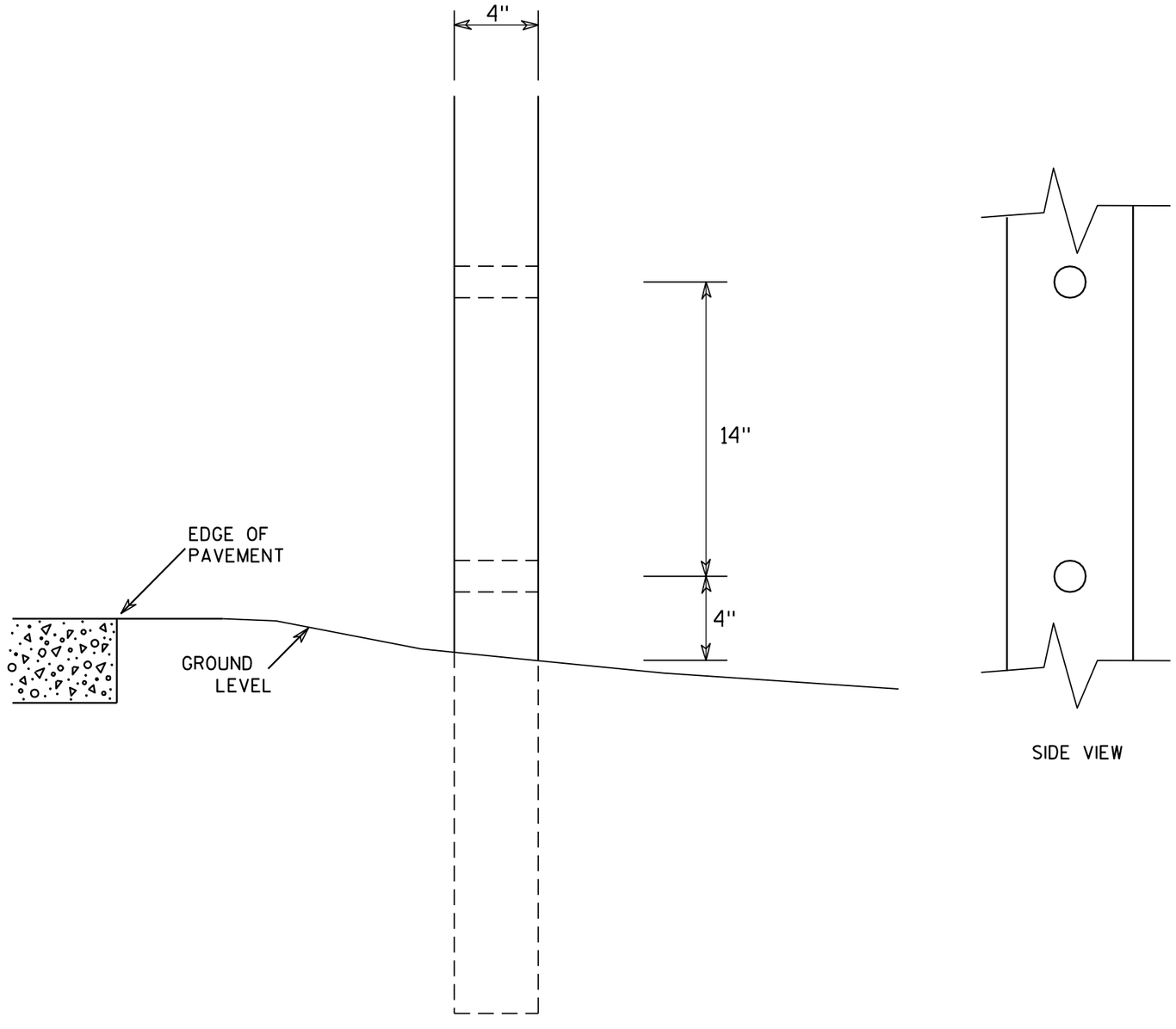
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 771 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000



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

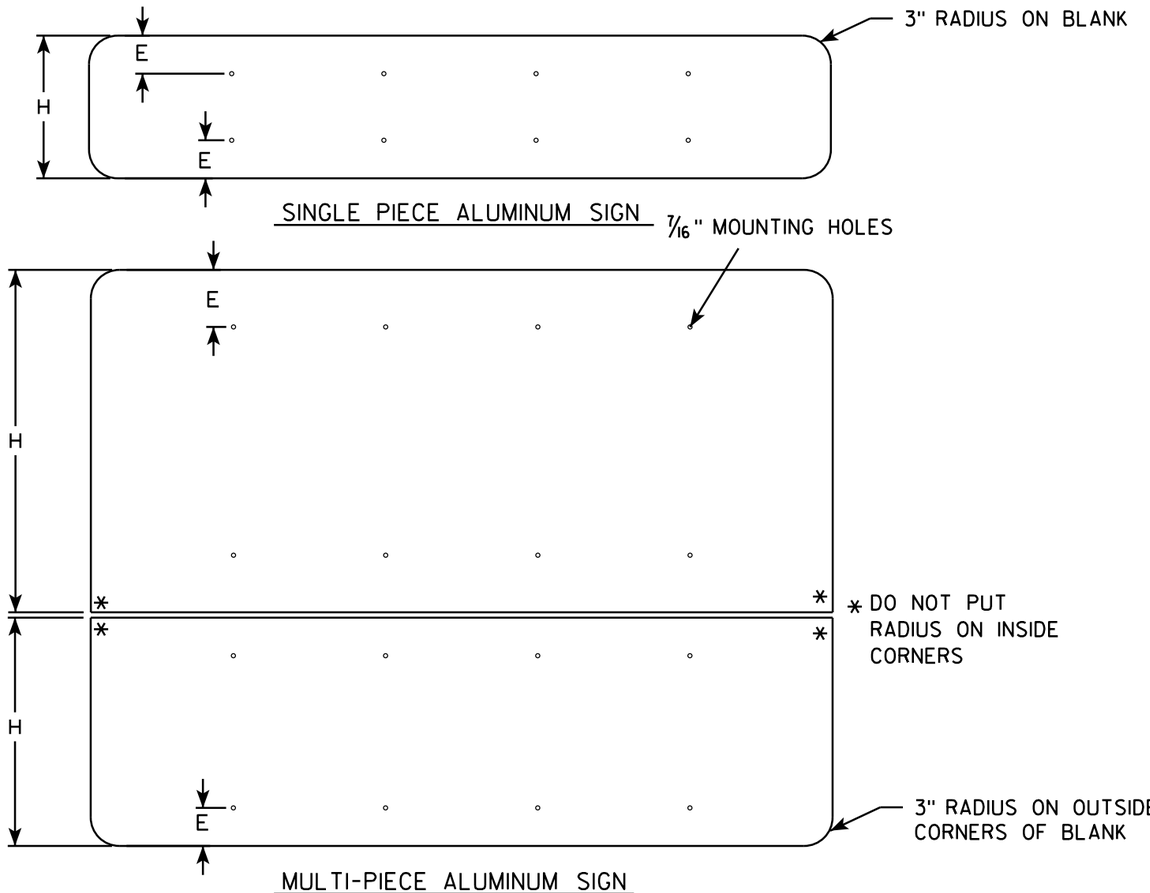
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

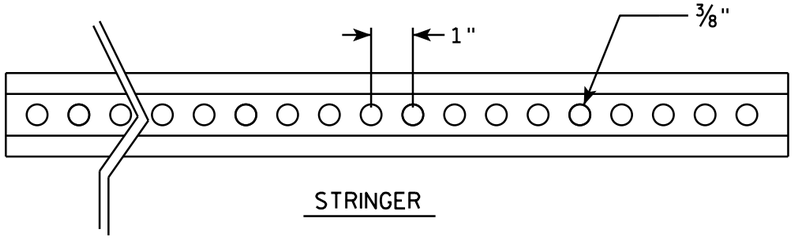
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 772	E



GENERAL NOTES

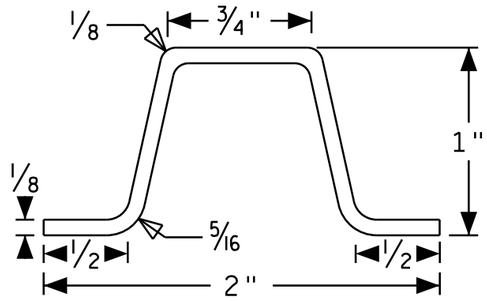
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

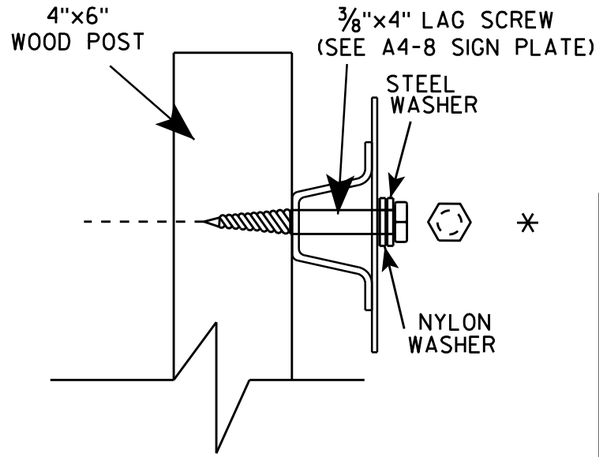


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

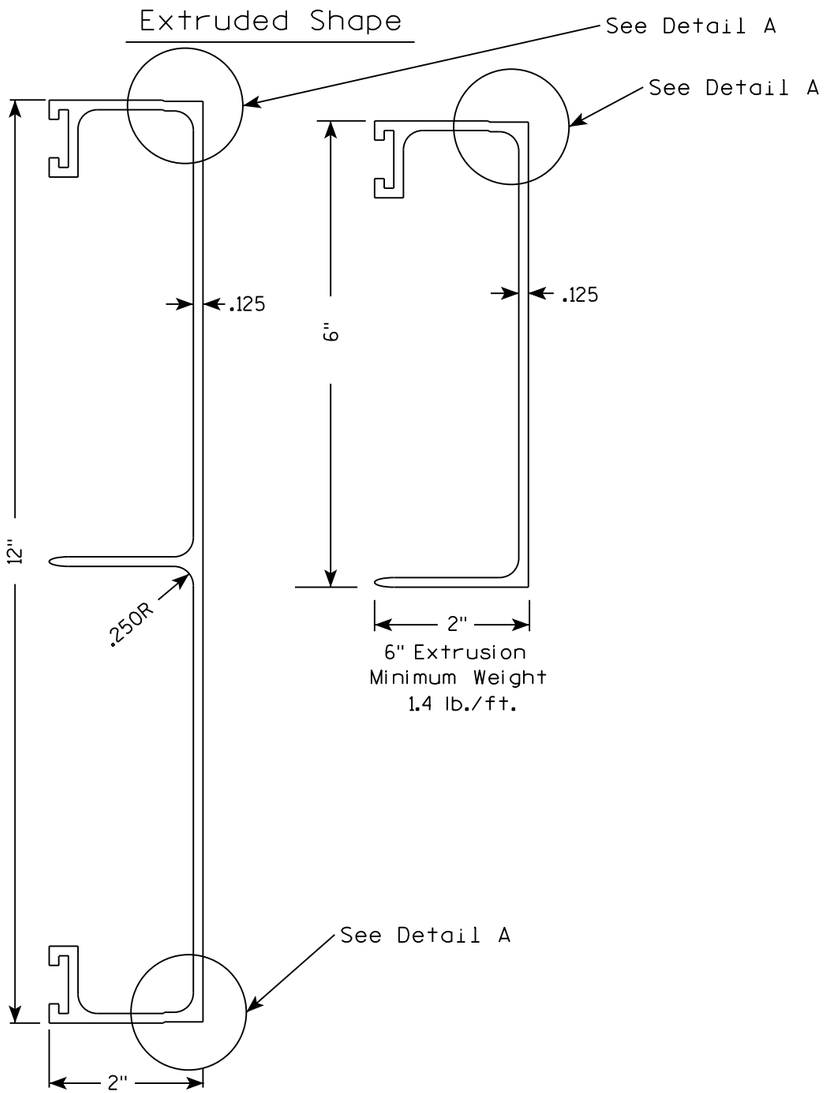
for State Traffic Engineer

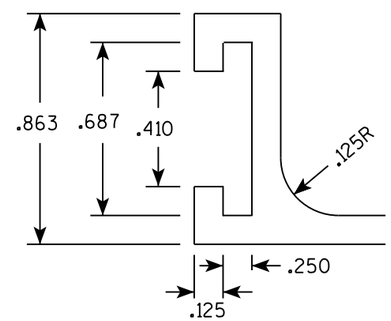
DATE 4/26/16 PLATE NO A4-18.1

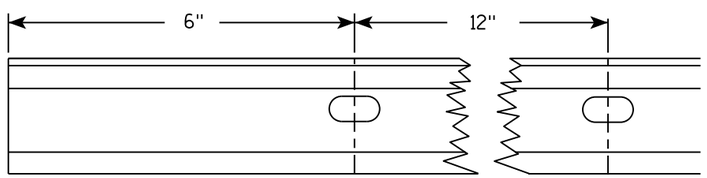
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000

Extruded Shape







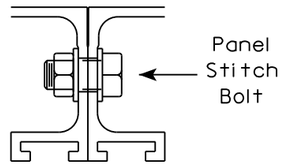
Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.

Hardware

STITCH BOLT, WASHER & NUT

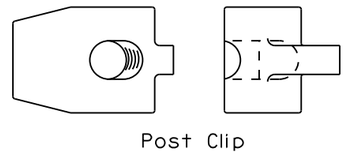
The hardware includes:

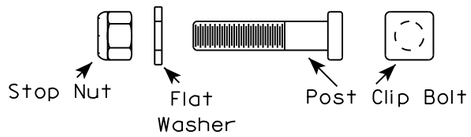
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
3/8 " - Stainless steel stop nut
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy



POST CLIP, POST CLIP BOLT, WASHER & NUT

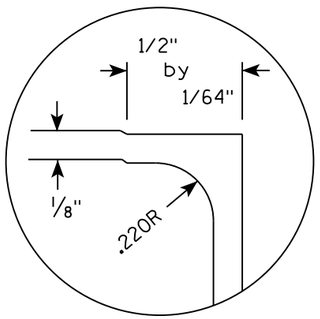
Post Clip shall be Alum. Alloy 356-T6
Post Clip Bolt shall be Stainless Steel.
Flat washer shall be 3/8" X .091, Stainless Steel.
Stop nut shall be stainless steel.





NOTES

1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
3. Post Clips shall be used to attach the sign panel to the sign support.
4. Edge wrapping of sign sheeting required on all extrusions joints shown in Detail A.



DETAIL A (EDGE WRAP JOINT)

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

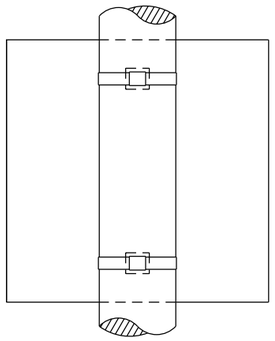
APPROVED Matthew R Rauch
for State Traffic Engineer

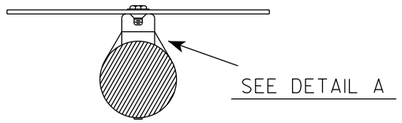
DATE 11/30/16 PLATE NO. A5-2.10

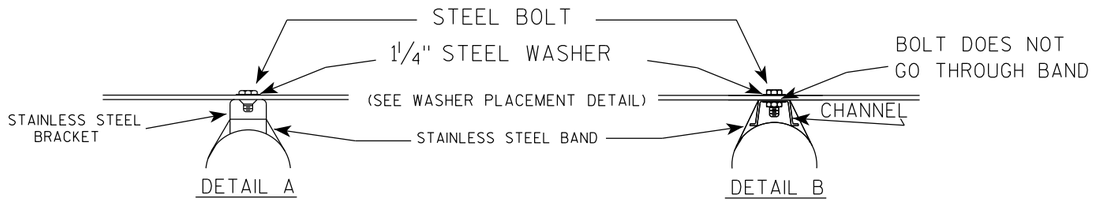
PROJECT NO:				SHEET NO: 774	E

BANDING

SINGLE SIGN



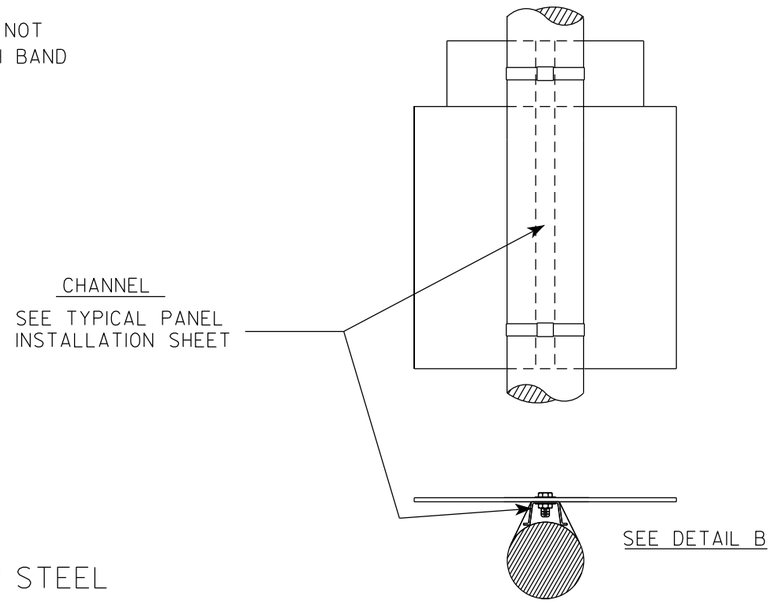




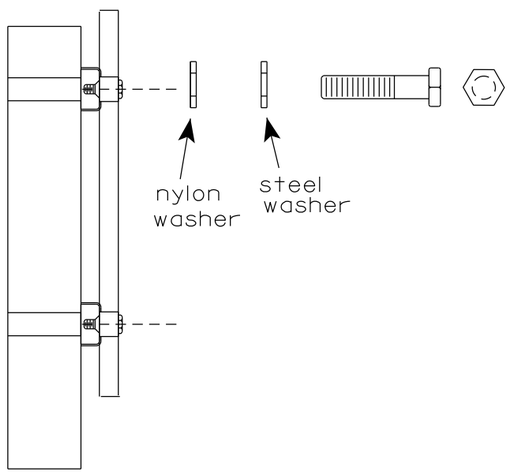
GENERAL NOTES

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

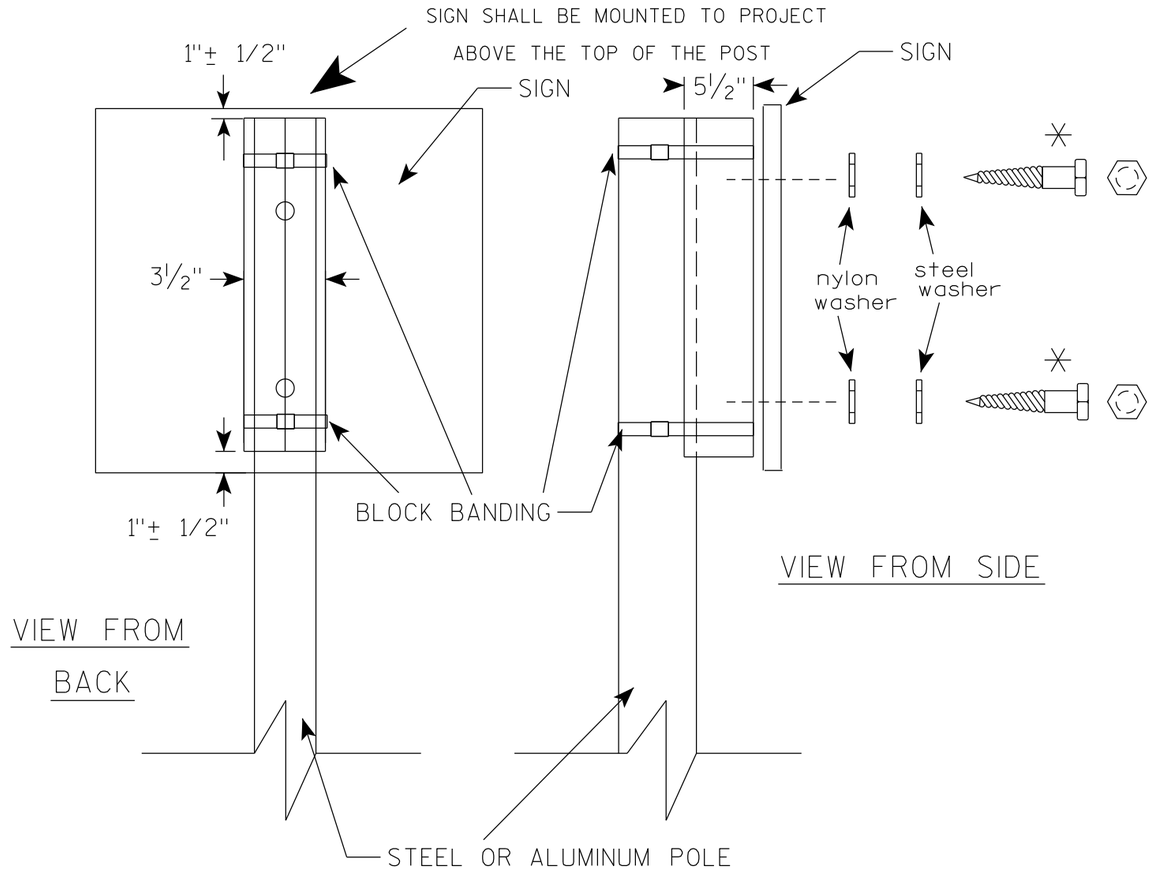
DATE 6/10/19 PLATE NO. A5-9.4

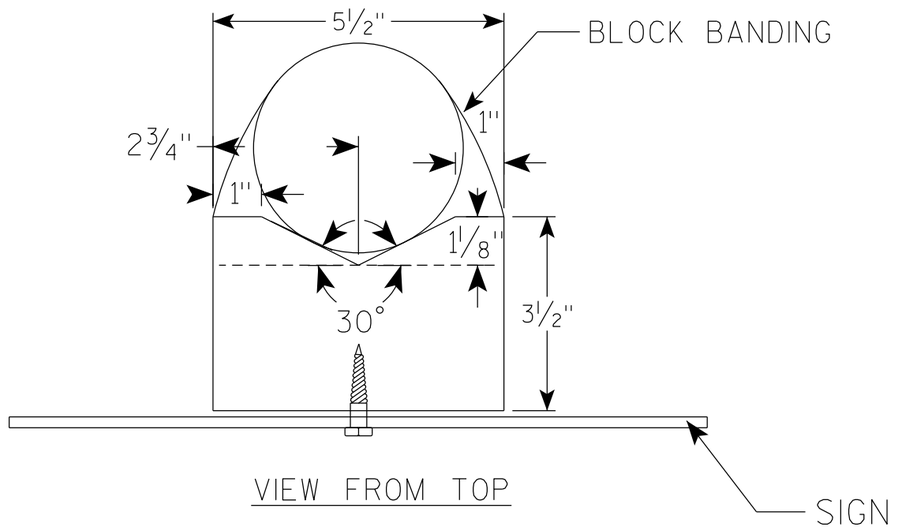
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 775	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





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"

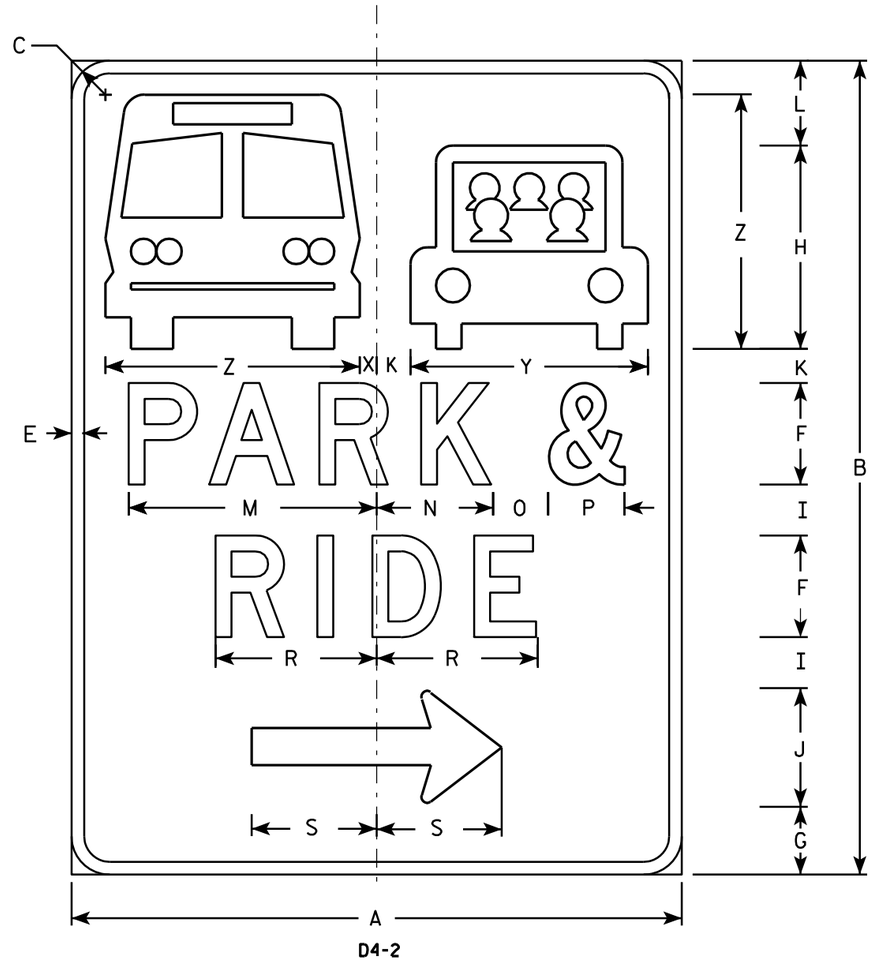
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

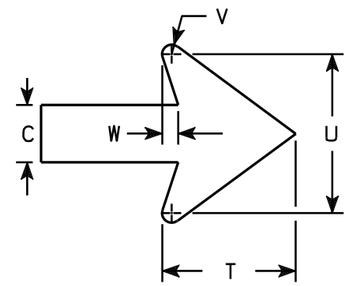
PROJECT NO:				SHEET NO: 776	E



D4-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
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. The D4-2L is the same as a D4-2R except the arrow is reversed.
6. The D4-2 sign may have either symbol or both symbols at the same time.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	30	1 1/8		1/2	4	1 5/8	7 1/2	1 1/2	4 5/8	1 3/8	3 7/8	9 3/4	4	2 3/4	3		6 3/8	4 7/8	3 1/2	4 1/8	1/4	3/8	5/8	9 3/8	10	5.0
2	30	36	1 3/8		5/8	5	2	9	1 5/8	5 1/2	1 5/8	4 5/8	12 1/4	5 1/8	3 3/8	3 3/4		8	6 1/8	4 3/8	5 1/4	3/8	1/2	7/8	11 3/4	12 1/2	7.50
3	36	48	2 1/4		3/4	6	4	12	3	7	2	5	14 5/8	6 7/8	3 1/4	4 1/2		9 1/2	7 1/2	5 1/4	6 1/4	3/8	5/8	1	14	15	12.0
4																											
5																											

STANDARD SIGN
D4-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. D4-2.5

PROJECT NO:

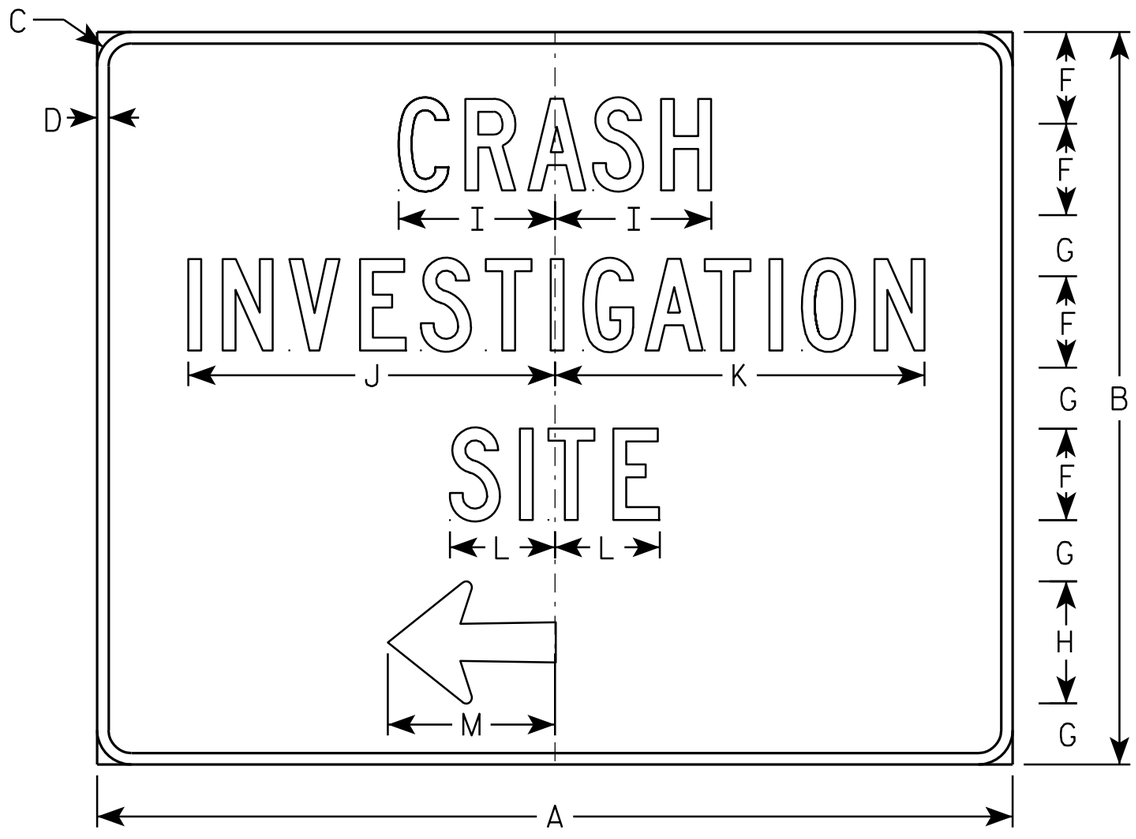
SHEET NO: 777 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\D42.dgn PLOT DATE : 10-FEB-2011 14:21 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

7



D4-54L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - BLUE
   Message - WHITE
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. D4-54R is same as D4-54L except arrow is reversed.
6. Arrow is from A1-2 Lower Case 4½ Series D & E

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

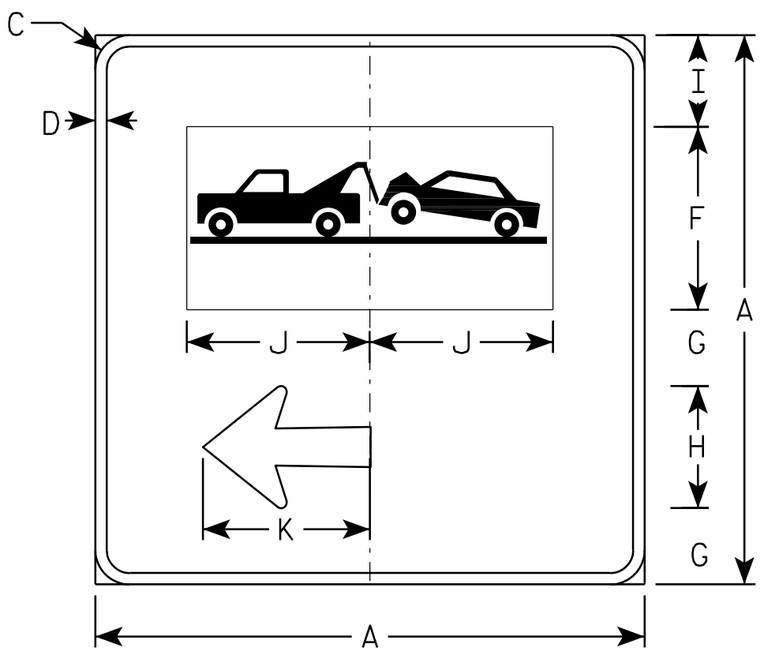
STANDARD SIGN
D4-54 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2011 PLATE NO. D4-54.1

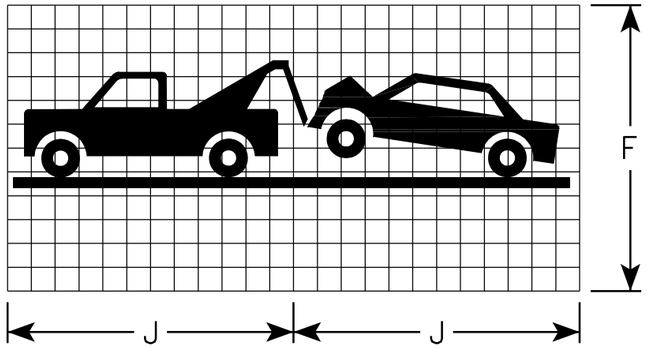
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 778	E



D4-55L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - BLUE
   Message - WHITE
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. D4-55R is same as D4-55L except arrow is reversed.
6. Arrow is from A1-2 Lower Case 4½ Series D & E



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

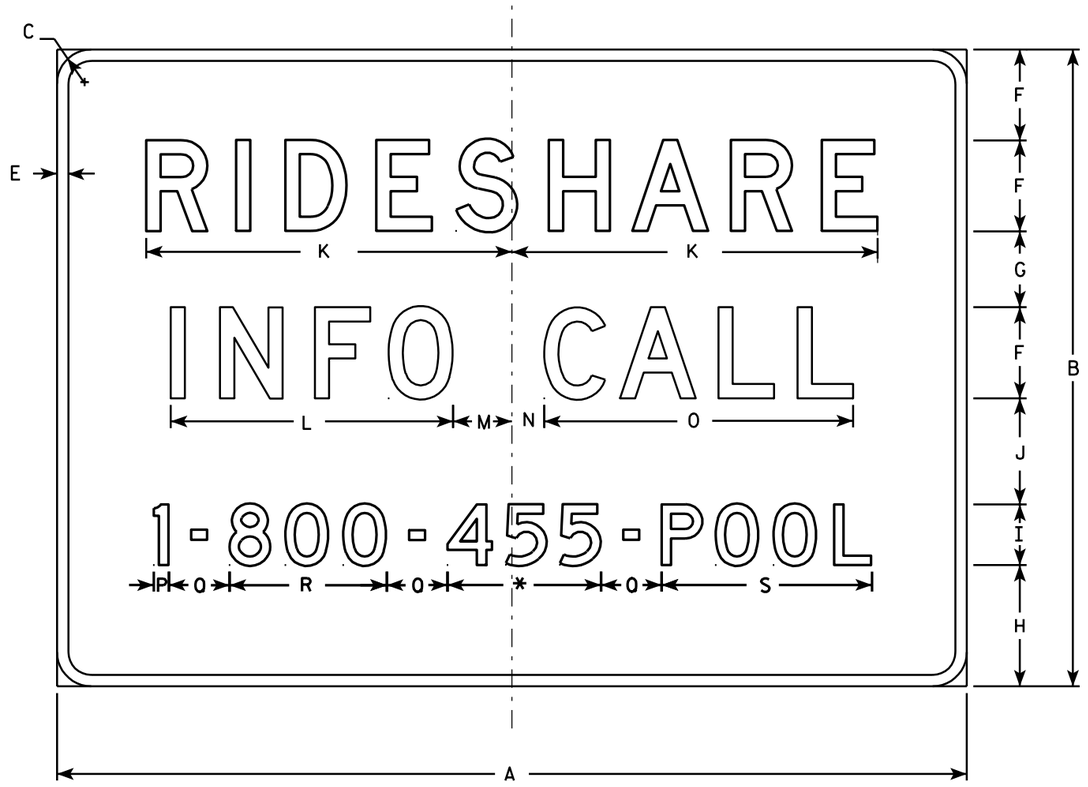
STANDARD SIGN
D4-55 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/14/2011 PLATE NO. D4-55.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 779	E



D12-2A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Blue
   Message - White - Type H Reflective
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. Substitute appropriate numerals and adjust spacing as required to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	1200 mm X 525 mm
2	1500 mm X 1050 mm
3	
4	1500 mm X 1050 mm
5	1950 mm X 1350 mm

* Variable (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.	Area m2
1	48	21	1 1/2		1/2	3	2 3/4	3 1/2	3	2 3/4	12 1/8	9 3/8	2	1 1/8	10 1/4	3/4	3	7 3/4	10 5/8								7.0	0.63
2	60	42	2 1/4		3/4	6	5	8	4	7	24 1/8	18 5/8	3 1/8	2 1/8	20 1/8	1	4	10 3/8	13 7/8								17.5	1.58
3																												
4	60	42	2 1/4		3/4	6	5	8	4	7	24 1/8	18 5/8	3 1/8	2 1/8	20 1/8	1	4	10 3/8	13 7/8								17.5	1.58
5	78	54	3		1	8	6	10	6	8	30 7/8	23 5/8	4 7/8	2 1/8	26 3/8	1 1/2	5	15 1/2	21 1/4								29.25	2.63

STANDARD SIGN
D12-2A

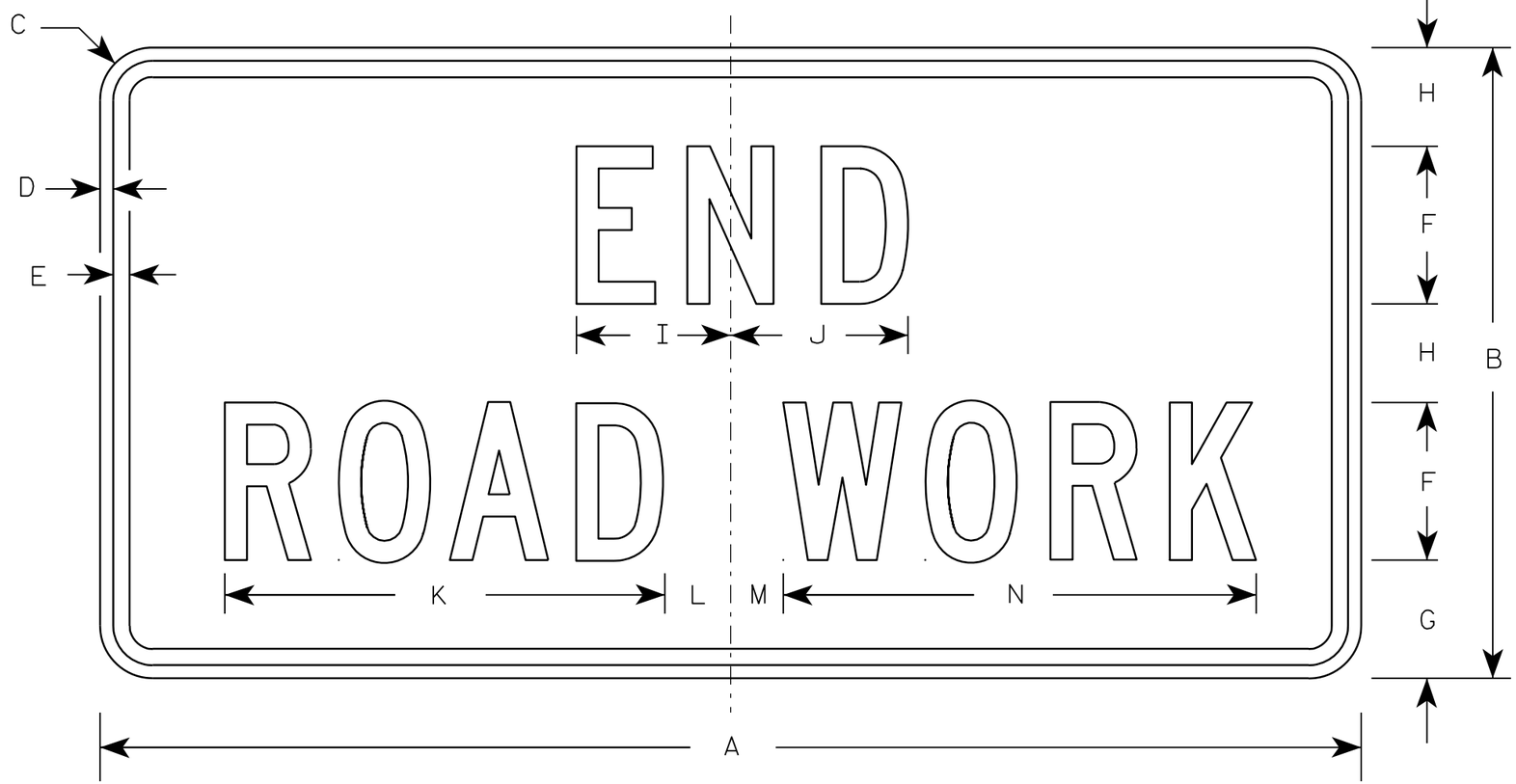
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spay for State Traffic Engineer

DATE 1/16/02 PLATE NO. D12-2A.3

PROJECT NO:

SHEET NO: 780 E



G20-2A

NOTES

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

Metric equivalent for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

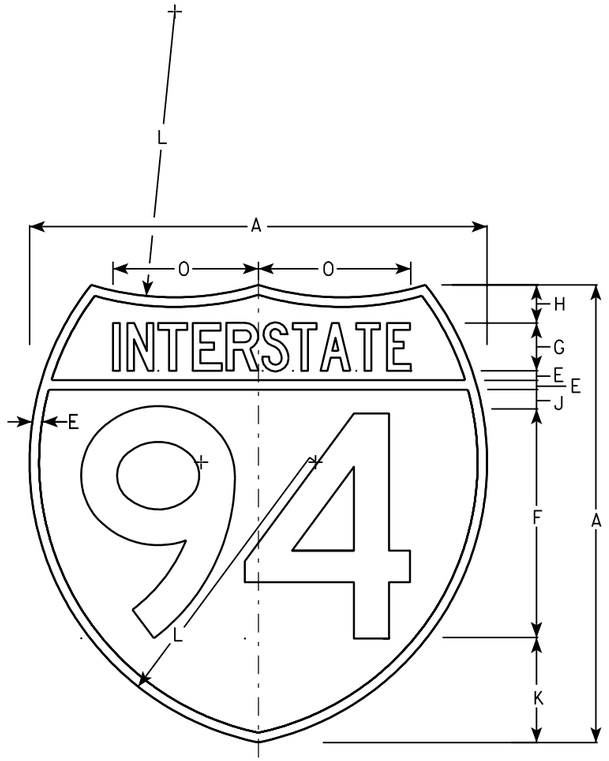
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

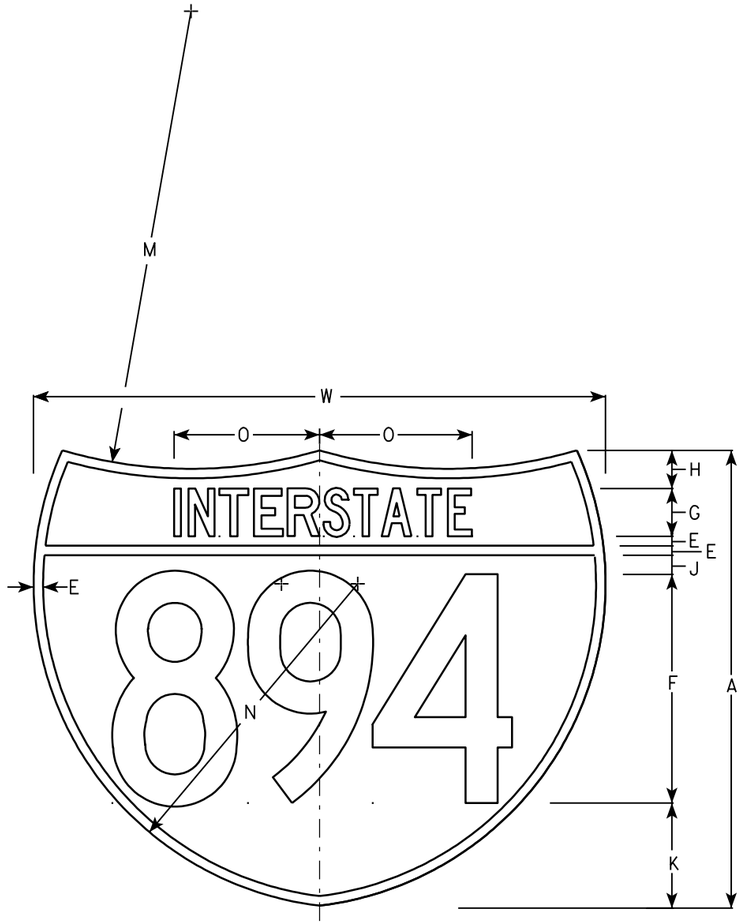
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 781	E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

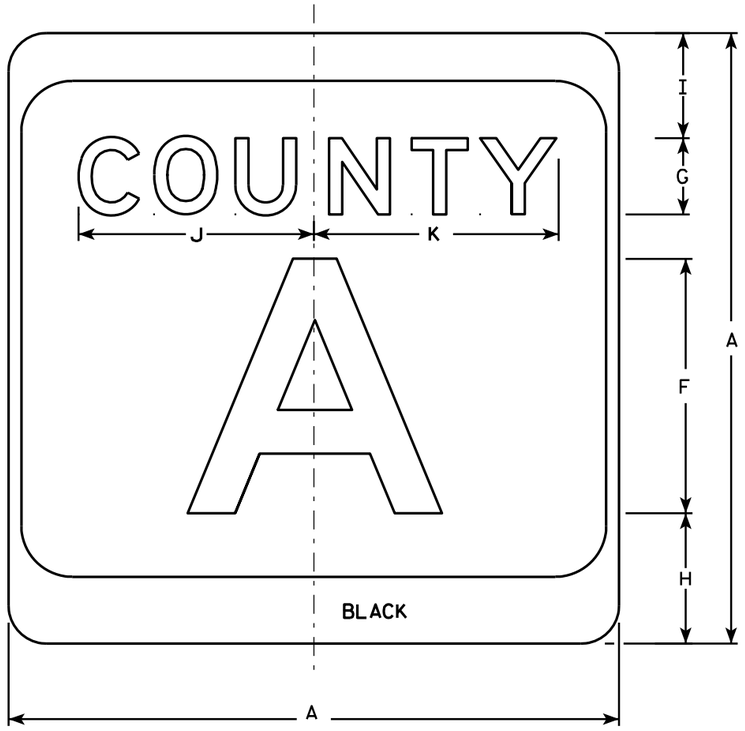
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

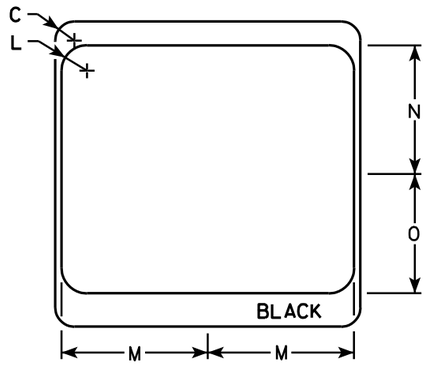
APPROVED Matthew R Rauch
for State Traffic Engineer

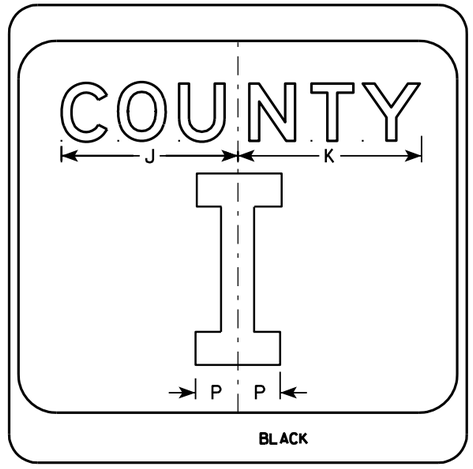
DATE 08/23/05 PLATE NO. M1-1.8

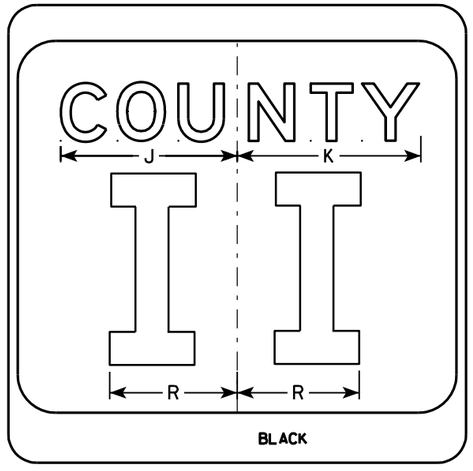
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 782	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   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. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

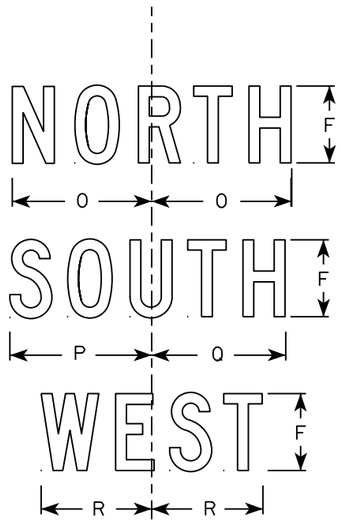
CTH MARKER
M1-5A FOR ASSEMBLIES

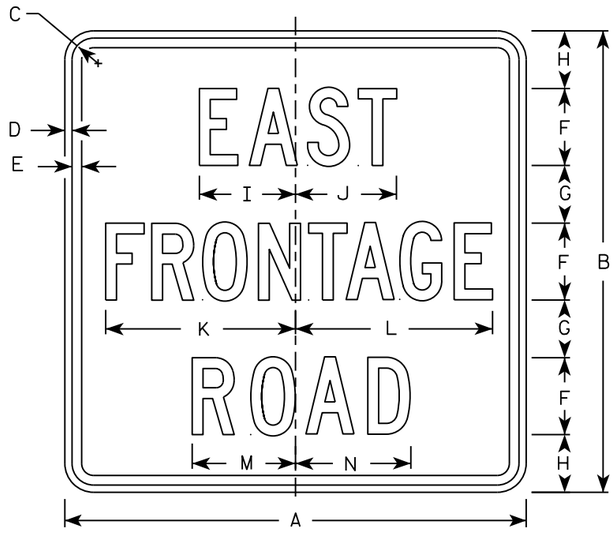
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 783	E





NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Substitute appropriate message as required.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	24	1 1/8	3/8	1/2	4	3	3	5	5 1/4	9 7/8	10 1/4	5 3/8	6	7 1/4	7 3/8	7	5 3/4									4.0
3																											
4	36	36	1 3/8	5/8	5/8	6	4 1/2	4 1/2	7 1/2	7 7/8	14 3/4	15 3/8	8	9	10 7/8	11	10 1/2	8 5/8									9.0
5																											

STANDARD SIGN
M1-95A

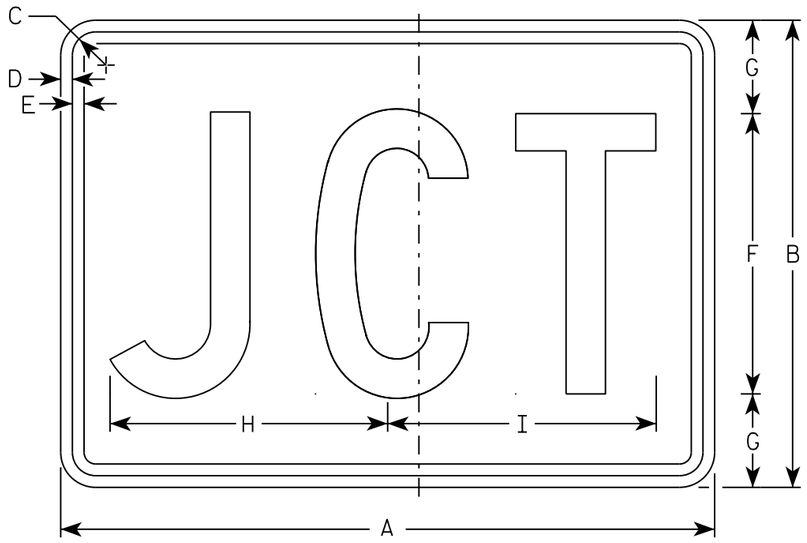
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

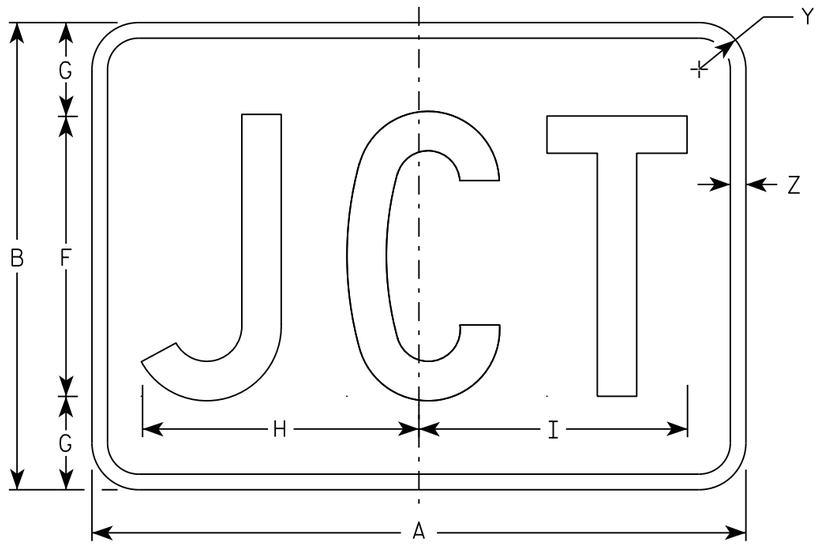
DATE 3/15/18 PLATE NO. M1-95A.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 784 | E

7



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

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	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

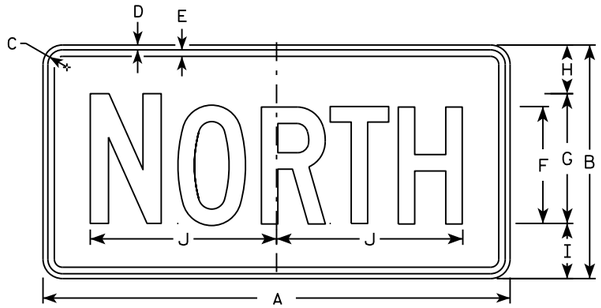
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

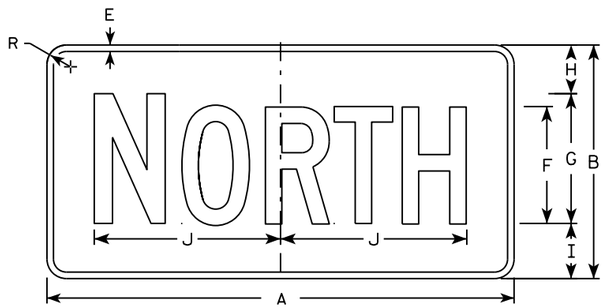
DATE 10/15/15 PLATE 785 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



M3-1
MM3-1
MP3-1



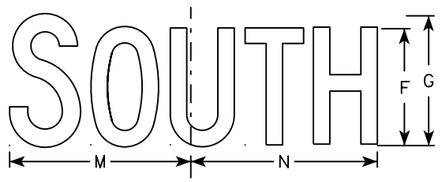
MB3-1
MK3-1
MN3-1



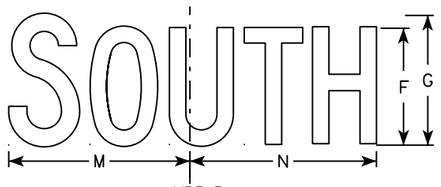
M3-2
MM3-2
MP3-2



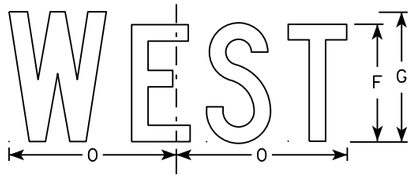
MB3-2
MK3-2
MN3-2



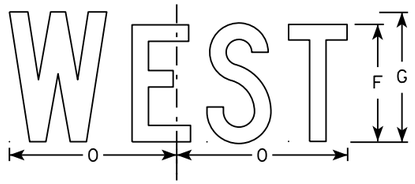
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

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

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

STANDARD SIGNS
M3-1 thur M3-4
SERIES

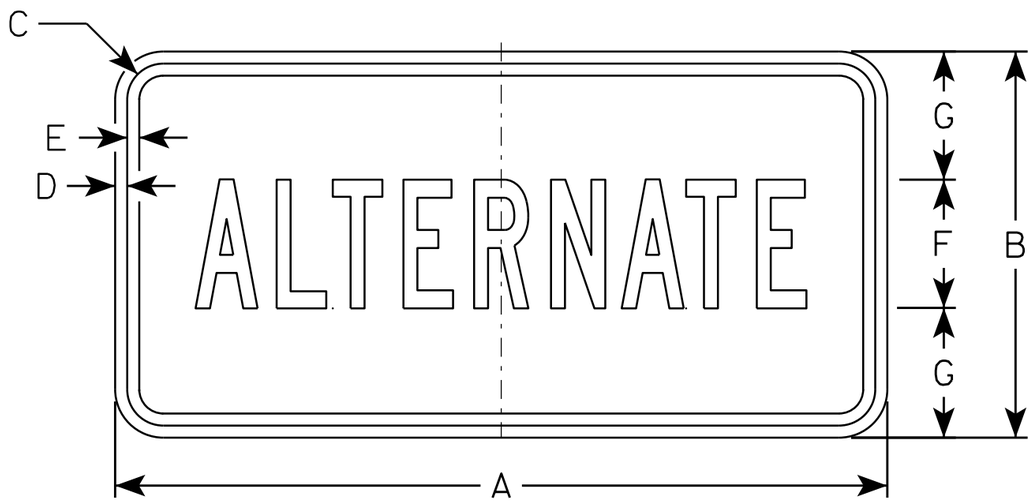
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

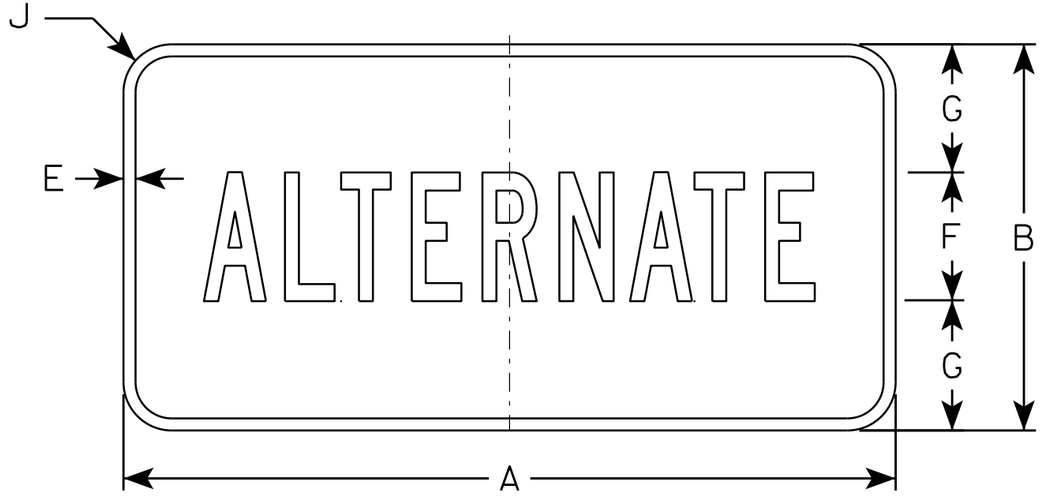
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-1
M04-1



MB4-1

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See Note 5
   Message - See note 5
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.
5. M4-1 Background - White
   Message - Black

   MB4-1 Background - Blue
   Message - White

   M04-1 Background - Orange - Type F
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	4	4	9 3/4	9 1/2	1 1/2																	2.00
3	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
4	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
5	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5

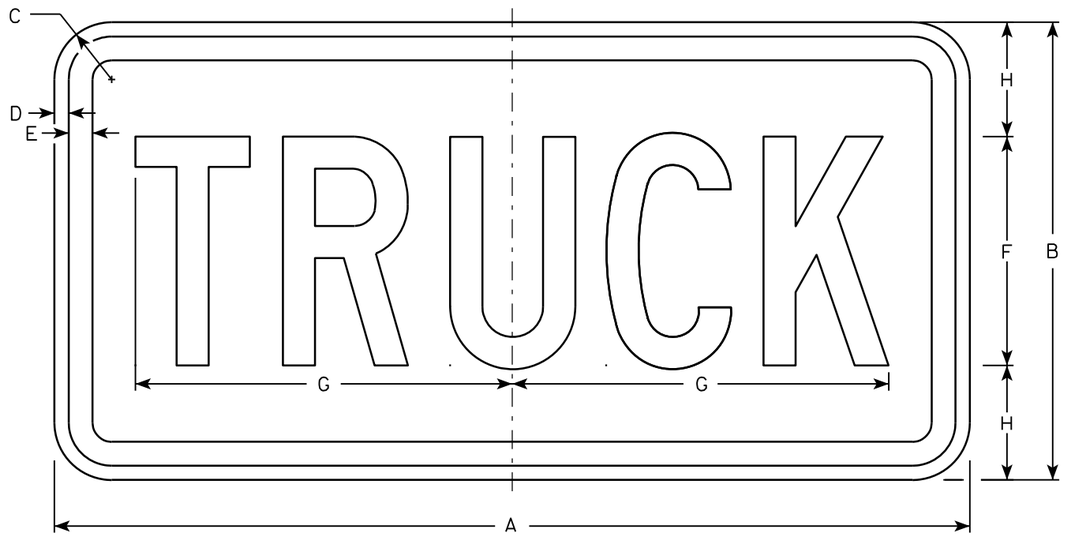
STANDARD SIGN
M4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/14 PLATE 787 '14-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



M4-4

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White - See Note 5
   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. Permanent Signs
   Background - Type H Reflective
   Temporary or other temporary Signs
   Background - Reflective

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	9 7/8	3																			2.0
3	36	18	1 1/2	3/8	1/2	9	15 5/8	4 1/2																			4.5
4																											
5																											

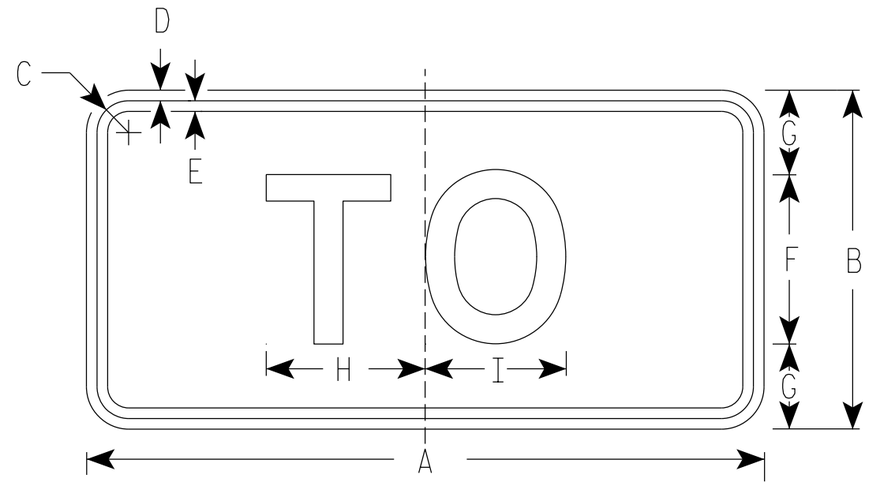
STANDARD SIGN
M4-4

WISCONSIN DEPT OF TRANSPORTATION

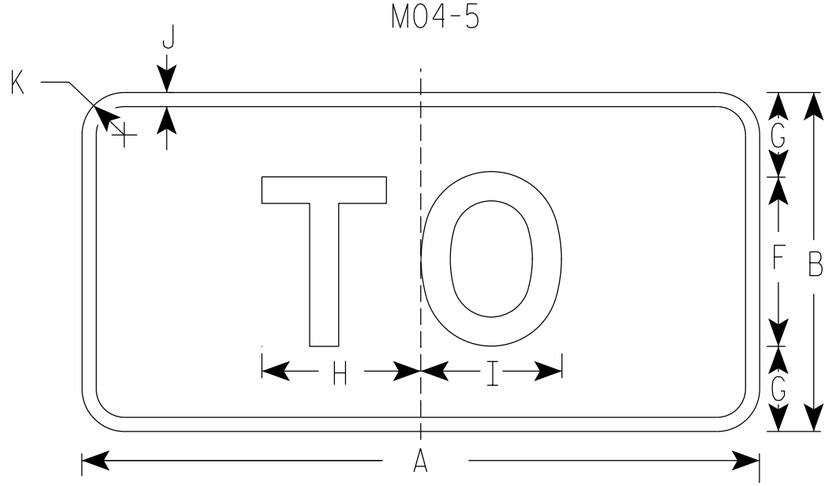
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 788 | E



M4-5
MM4-5
MP4-5
M04-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

   M04-5 Background - Orange Type F Reflective
   Message - Black

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

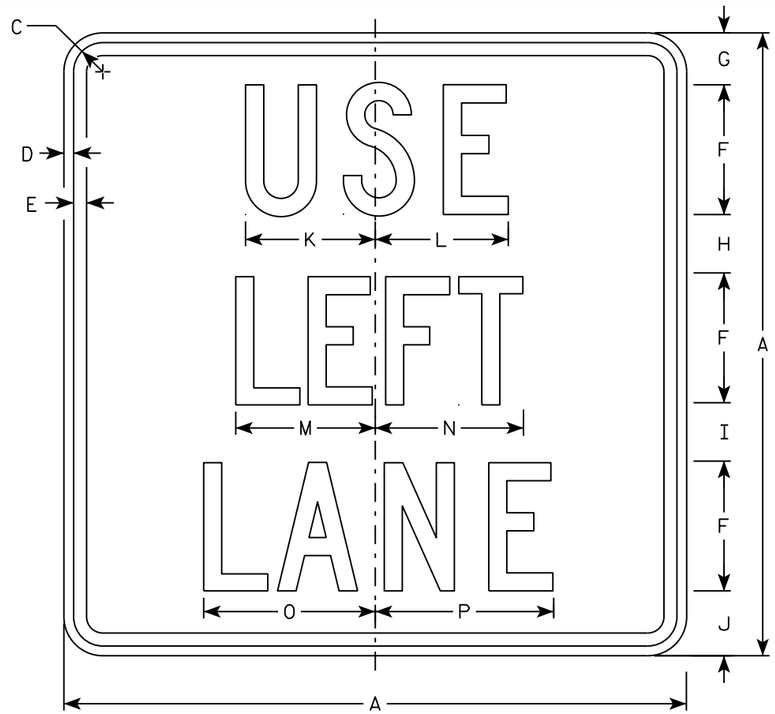
STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

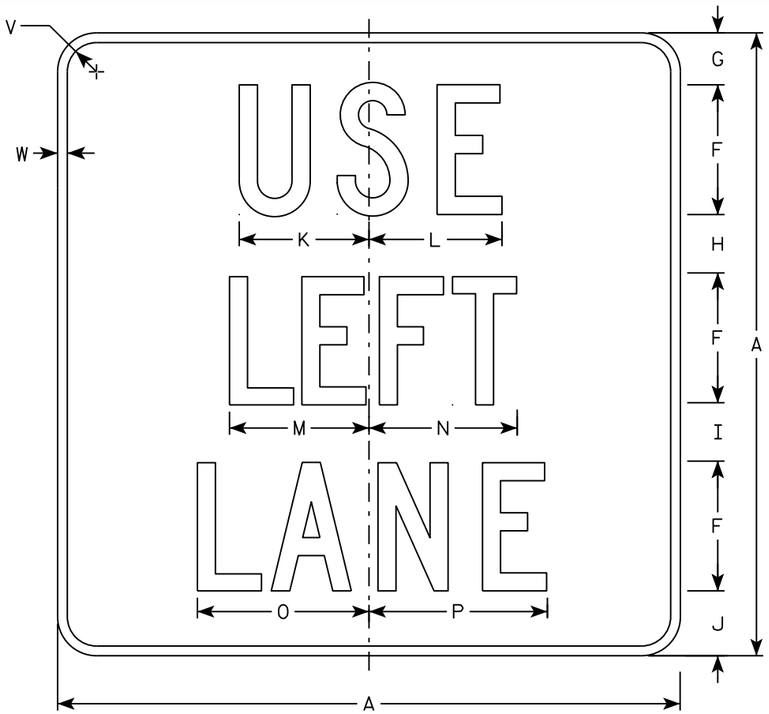
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/7/19 PLATE NO. M4-5.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 789 | E



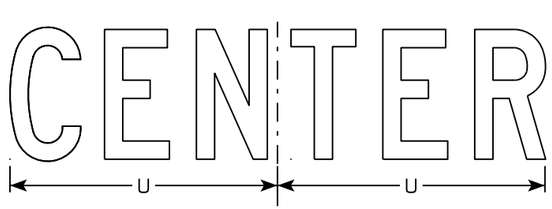
M4-20L



MB4-20L

M4-20L
MM4-20L
M04-20L
MP4-20L

MB4-20L
MK4-20L
MN4-20L
MR4-20L



M4-20C
MB4-20C
MK4-20C
MM4-20C
MN4-20C
M04-20C
MP4-20C
MR4-20C



M4-20R
MB4-20R
MK4-20R
MM4-20R
MN4-20R
M04-20R
MP4-20R
MR4-20R

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-20 Background - White
   Message - Black
   MB4-20 Background - Blue
   Message - White
   MK4-20 Background - Green
   Message - White
   MM4-20 Background - White
   Message - Green
   MN4-20 Background - Brown
   Message - White
   M04-20 Background - Orange - Type F Reflective
   Message - Black
   MP4-20 Background - White
   Message - Blue
   MR4-20 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/8	3/8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	5 3/8	5 3/4	6 5/8	6 7/8			7	7 5/8	10 1/4	1 1/2	1/2				4.0
3	36		1 5/8	5/8	3/4	7	4	3	3 1/2	4 1/2	7 1/2	7 3/4	8	8 5/8	9 7/8	10 1/4			10 3/8	11 3/8	14 3/8	1 7/8	1/2				9.0
4																											
5																											

STANDARD SIGN
M4-20

WISCONSIN DEPT OF TRANSPORTATION

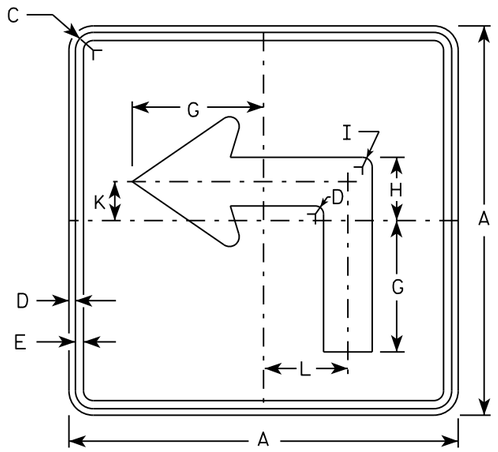
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 10/15/15 PLATE NO M4-20.5

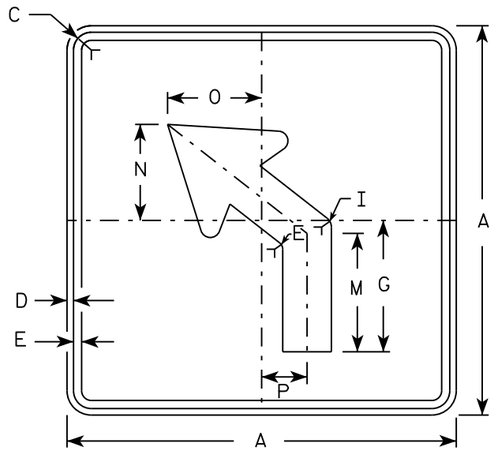
790

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

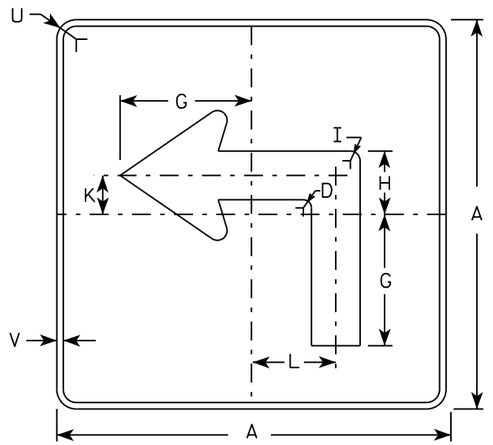
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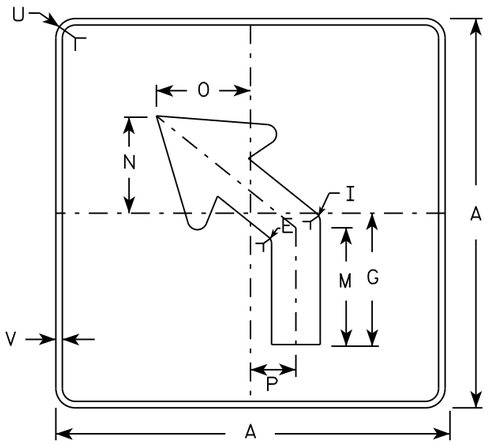
M5-1L
MM5-1L
MO5-1L
MP5-1L



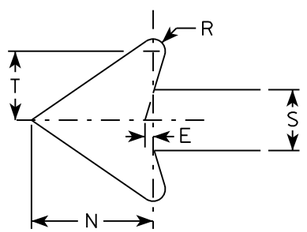
M5-2L
MM5-2L
MO5-2L
MP5-2L



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 - Type H Reflective
   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.

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	21		1 1/8	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 1/2	1/2					3.06
3	30		1 3/8	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 7/8	1/2					6.25
4	30		1 3/8	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 7/8	1/2					6.25
5	30		1 3/8	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 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

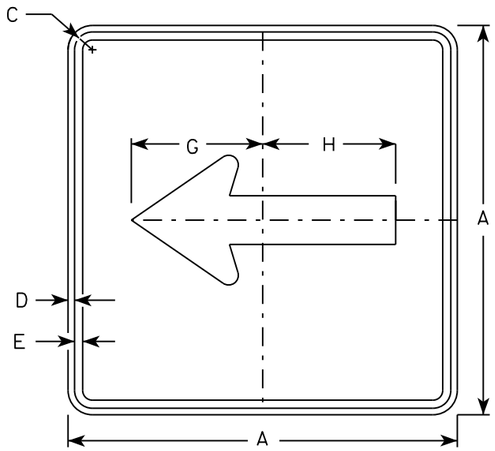
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

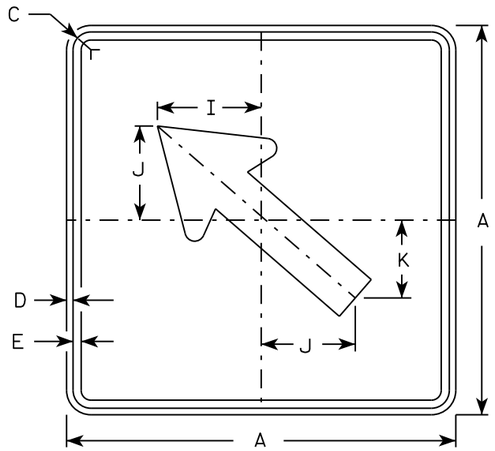
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



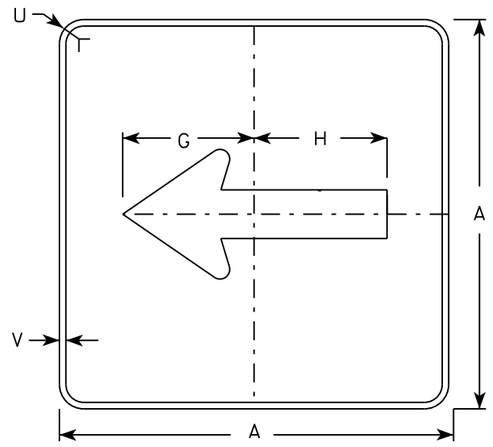
M6-1
MM6-1
MO6-1
MP6-1



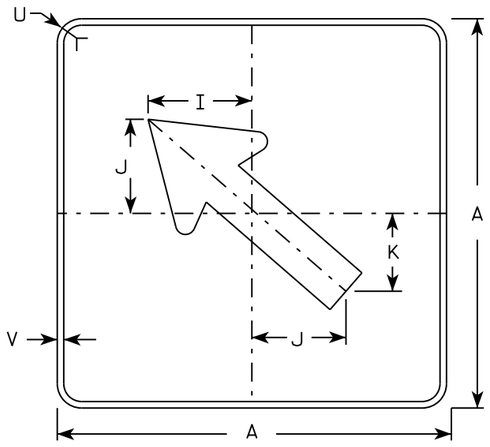
M6-2
MM6-2
MO6-2
MP6-2

NOTES

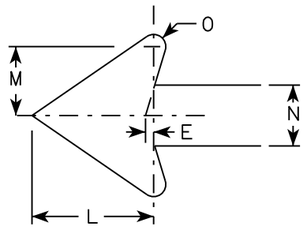
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	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 1/2	1/2						3.06
3	30		1 3/8	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 7/8	1/2						6.25
4	30		1 3/8	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 7/8	1/2						6.25
5	30		1 3/8	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 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

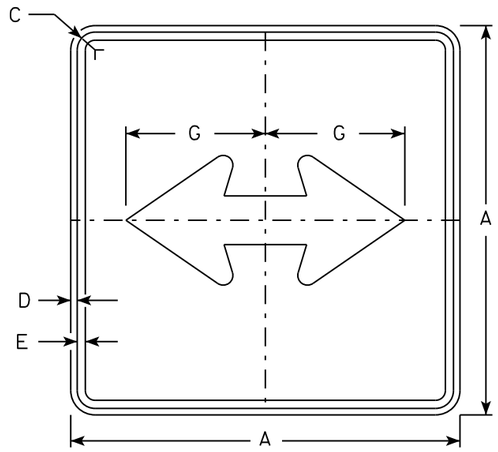
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

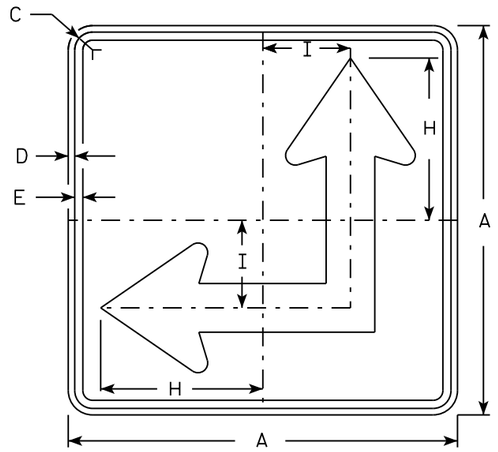
DATE 10/15/15 PLATE 792 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



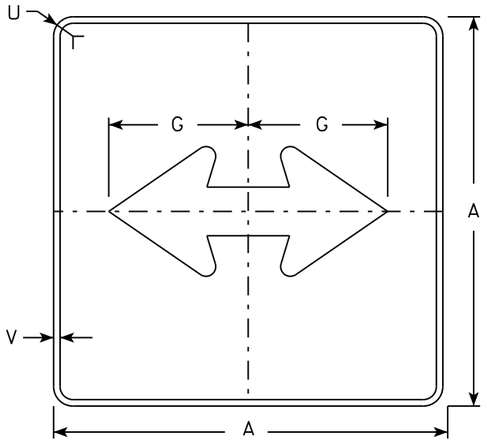
M6-4
MM6-4
MO6-4
MP6-4



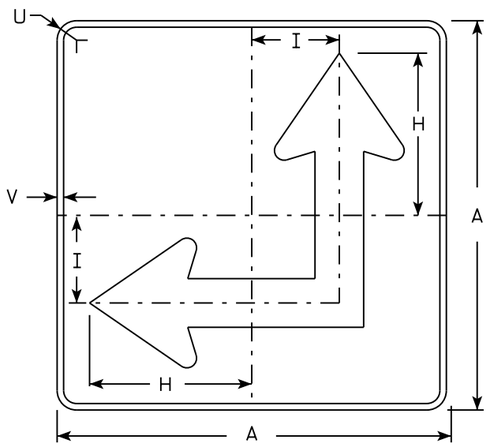
M6-6
MM6-6
MO6-6
MP6-6

NOTES

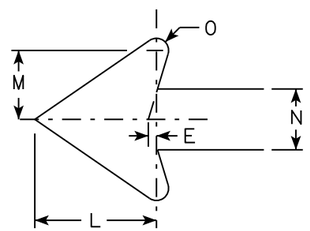
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

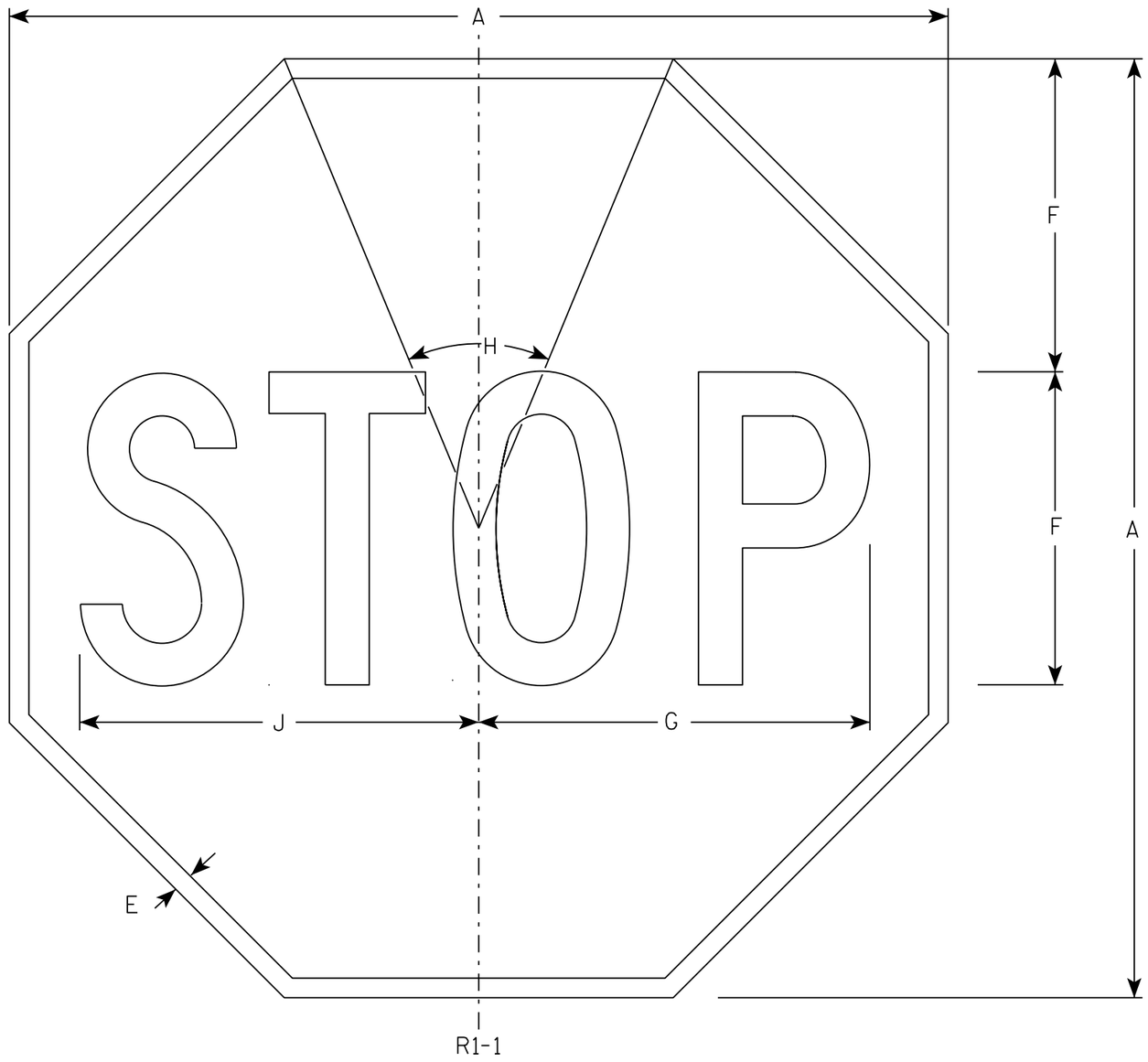
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 793 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

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

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

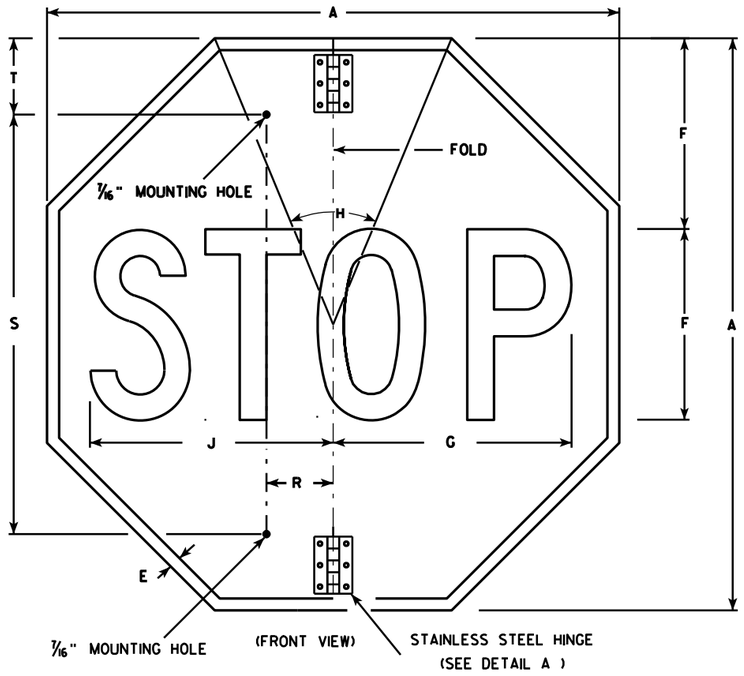
STANDARD SIGN
R1-1

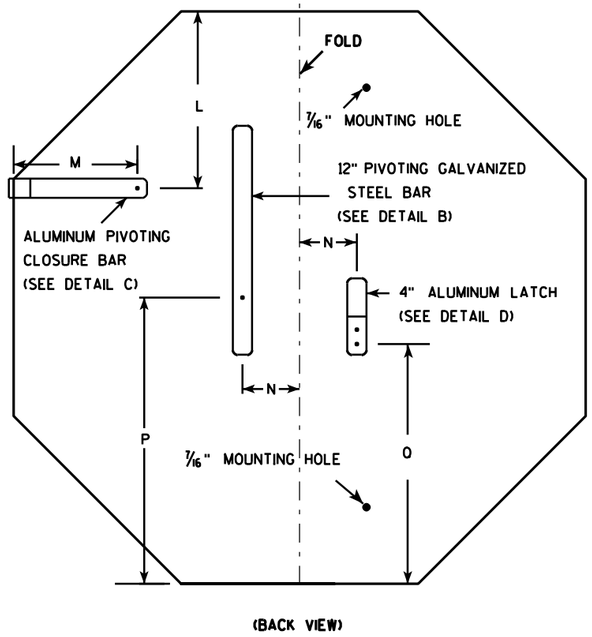
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

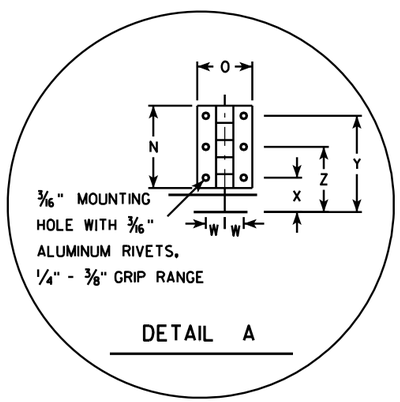
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 794	E



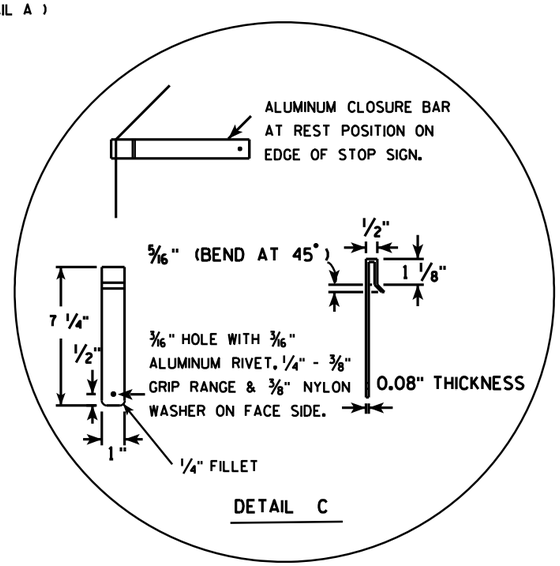


NOTES

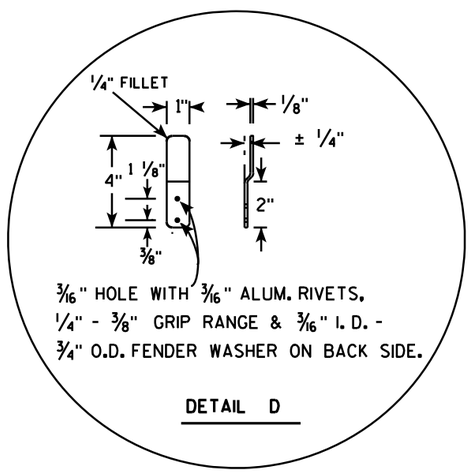
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



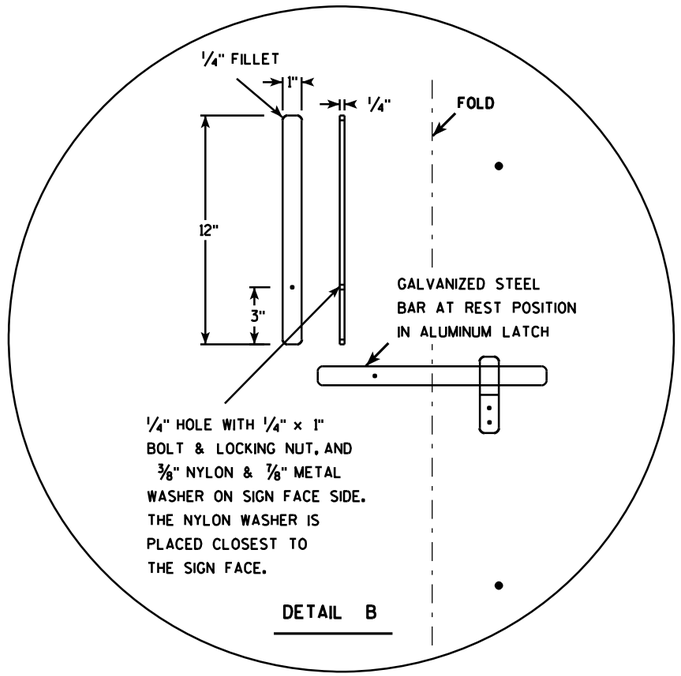
DETAIL A



DETAIL C



DETAIL D



DETAIL B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

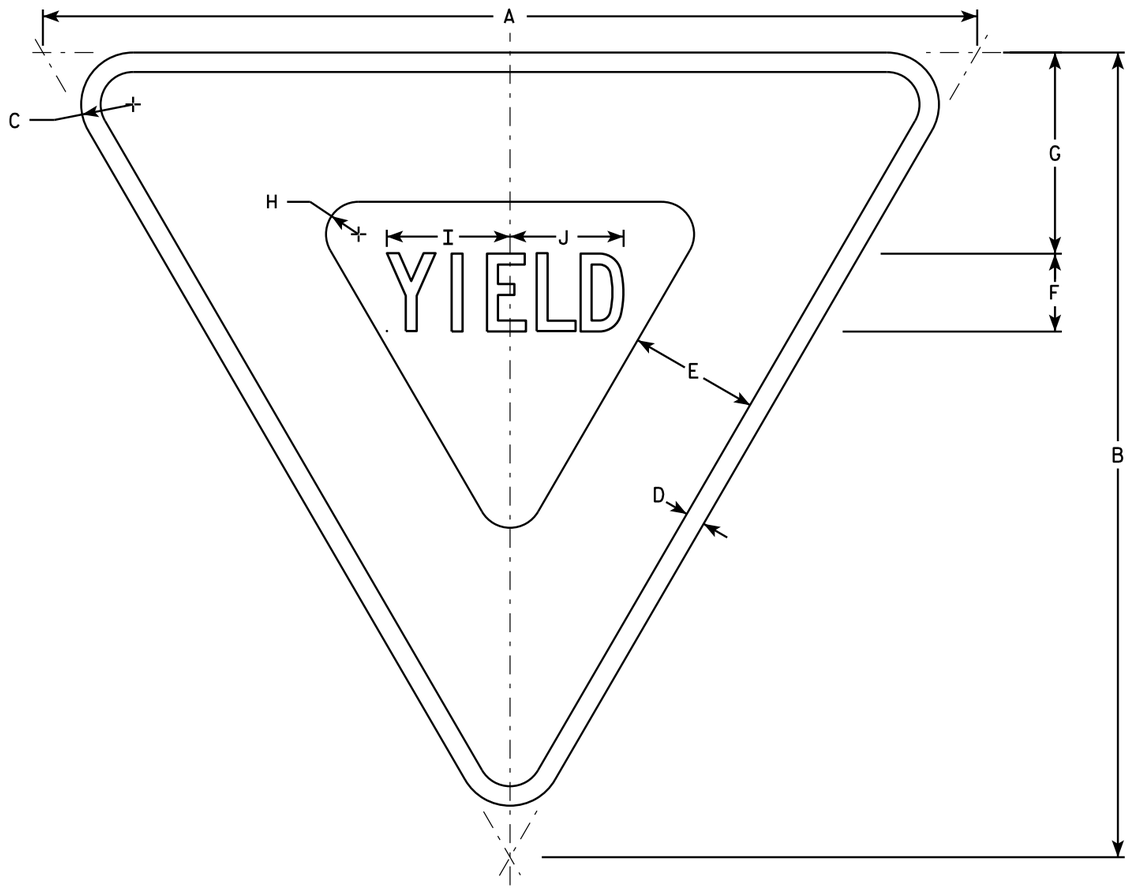
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 795 | E



R1-2

NOTES

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

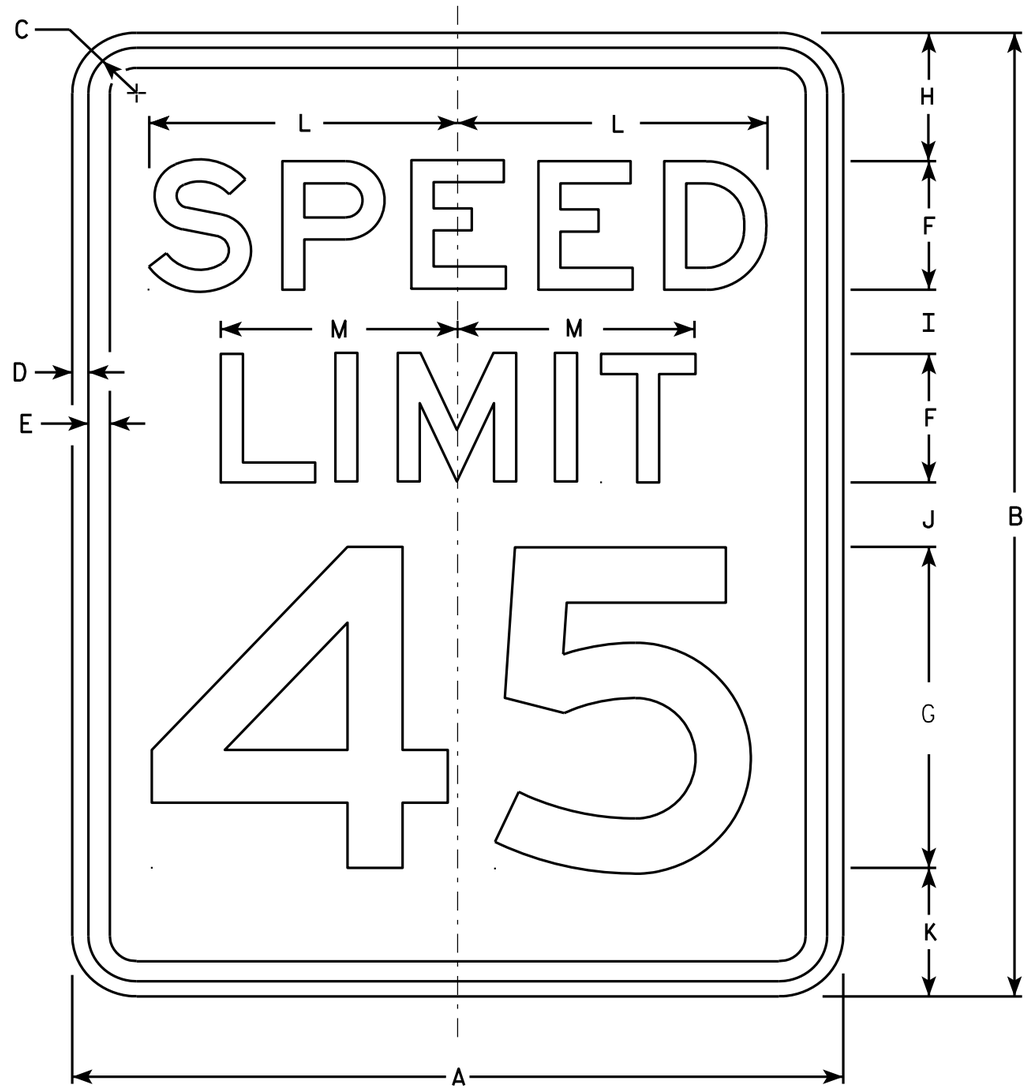
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



R2-1

NOTES

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

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

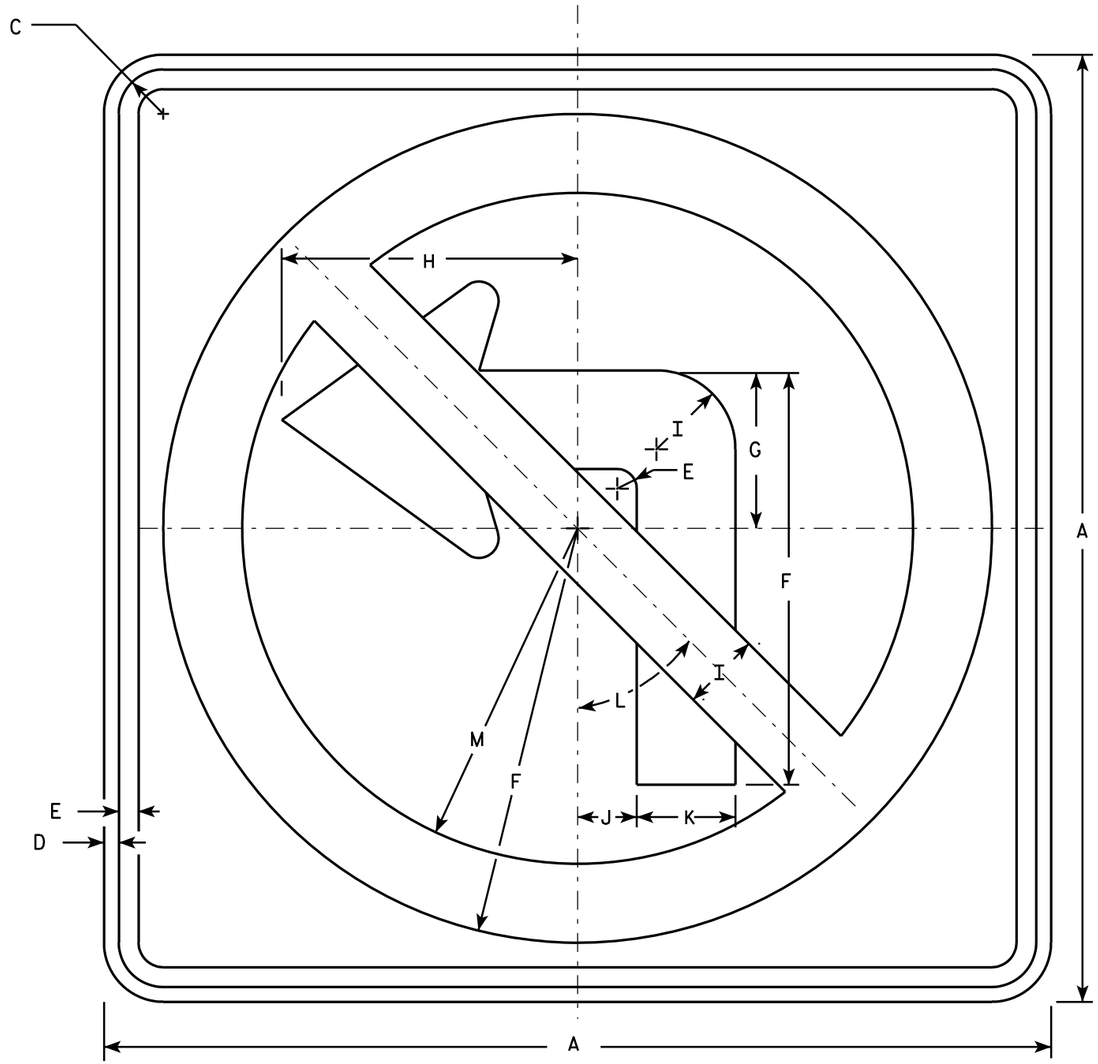
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

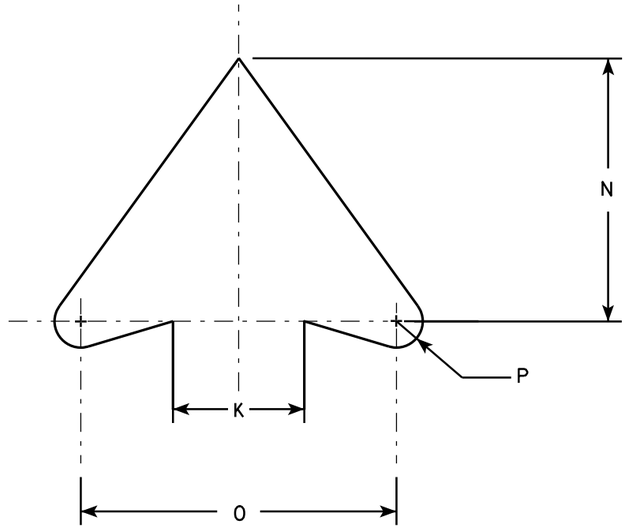
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 797	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - 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. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

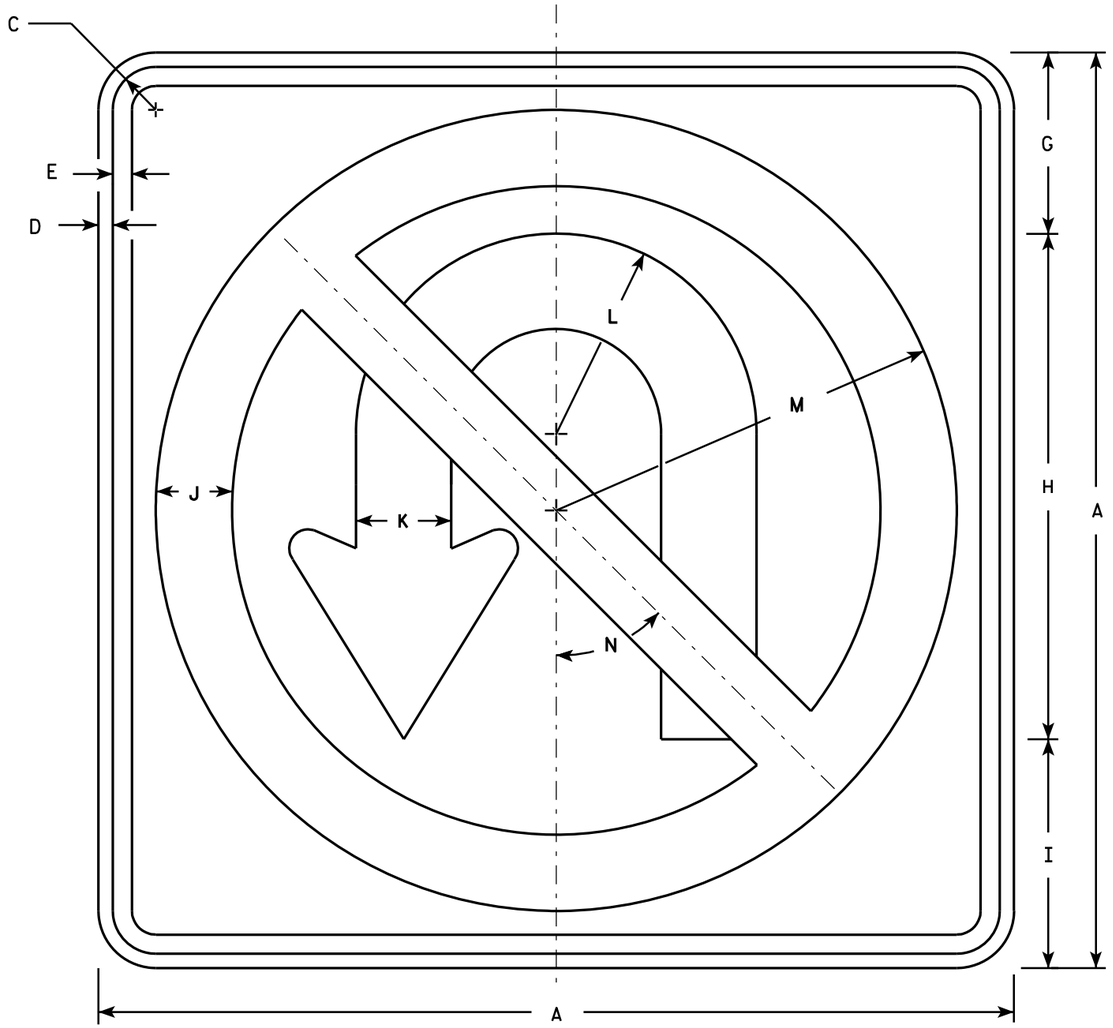
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 798	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R32.DGN PLOT DATE : 08-DEC-2010 14:41 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.760408:1.000000

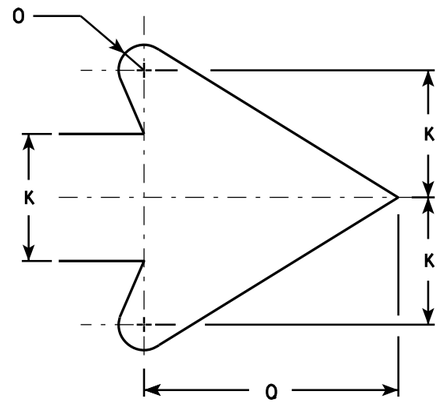
WISDOT/CADDS SHEET 42



R3-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - 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. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
3	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
4	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
5	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0

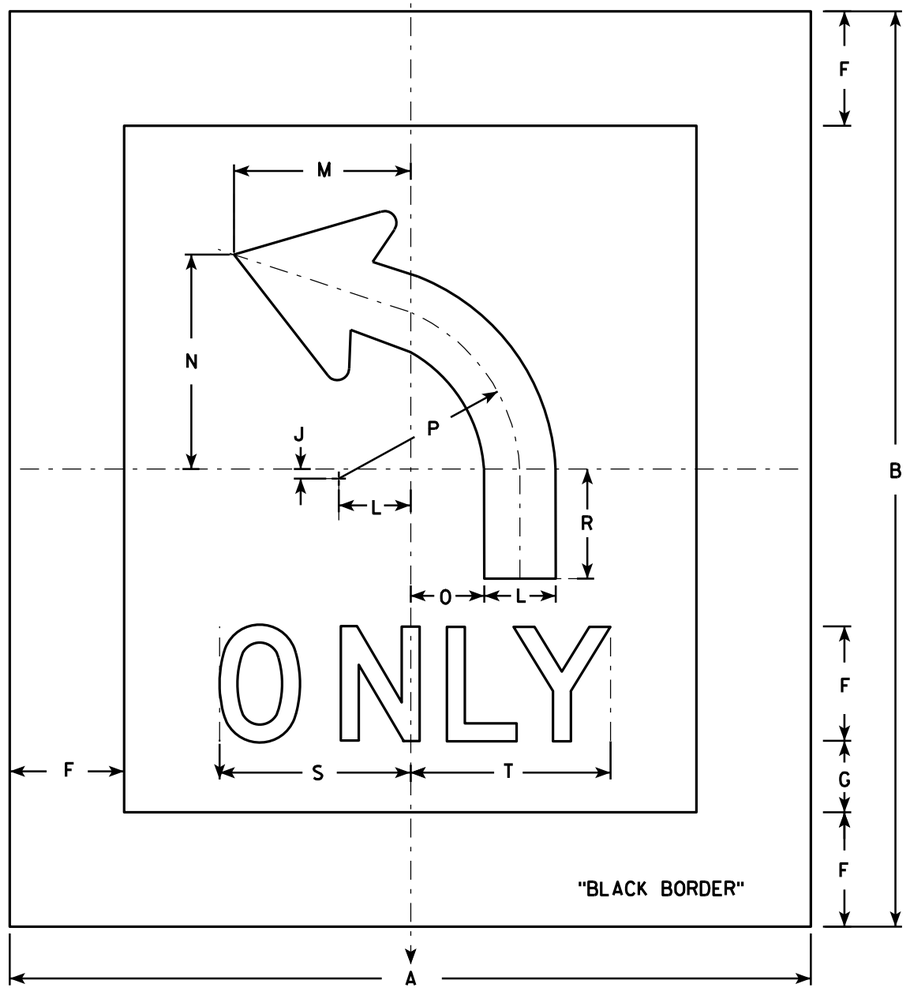
STANDARD SIGN
R3-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-4.11

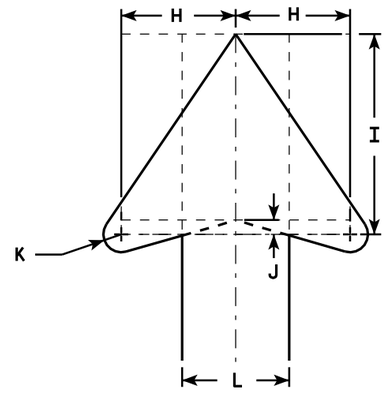
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 799	E



R3-5L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
5. R3-5R is the same as R3-5L except curved portion of arrow points right.
6. The 6" border is non-reflective black.



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	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
2M	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
3																											
4																											
5																											

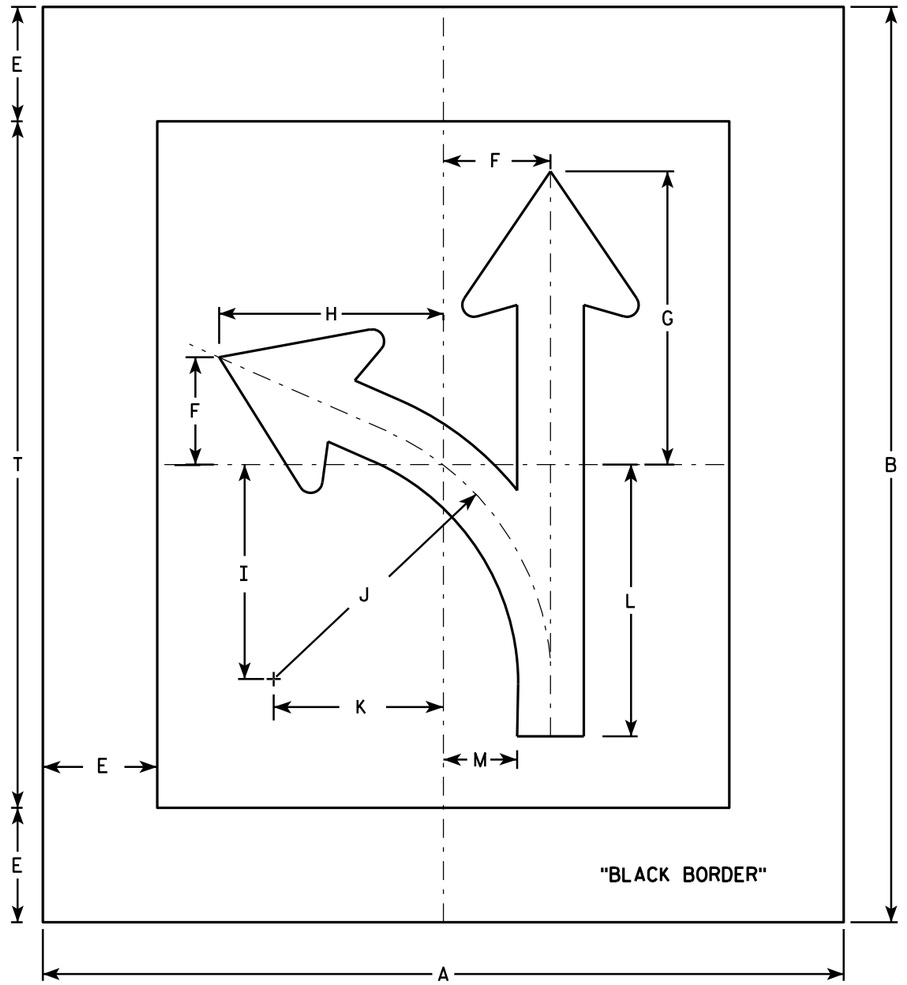
STANDARD SIGN
R3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/24/11 PLATE NO. R3-5.6

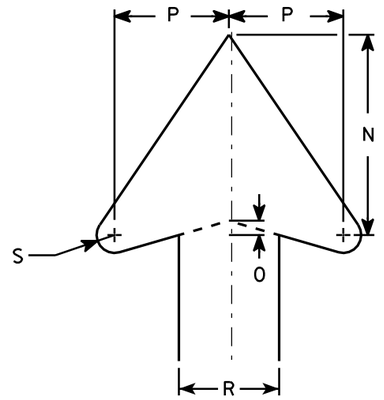
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 800 | E



R3-6L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
4. R3-6R is the same as R3-6L except curved portion of arrow points right.
5. The 6" border is non-reflective black.



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	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4		3 1/2	5/8	36							14.0
2M	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4		3 1/2	5/8	36							14.0
3																											
4																											
5																											

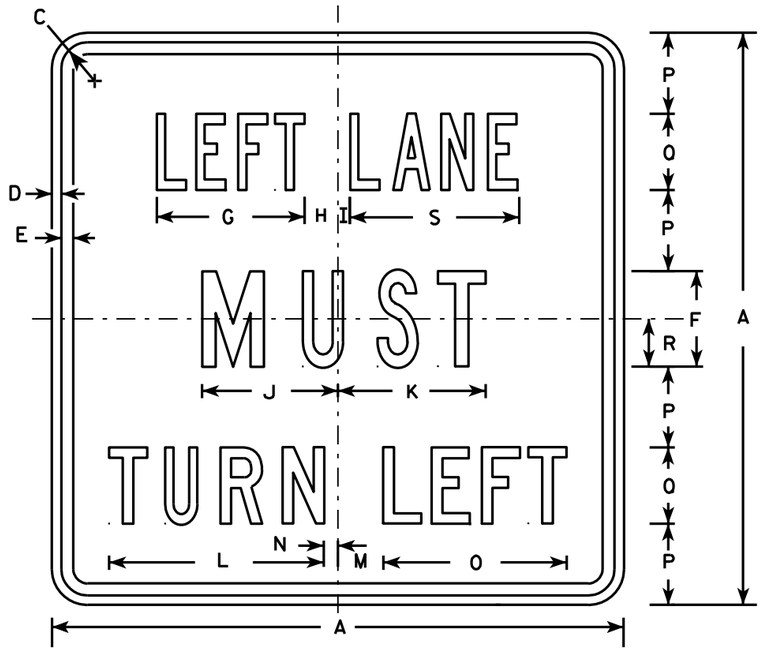
STANDARD SIGN
R3-6

WISCONSIN DEPT OF TRANSPORTATION

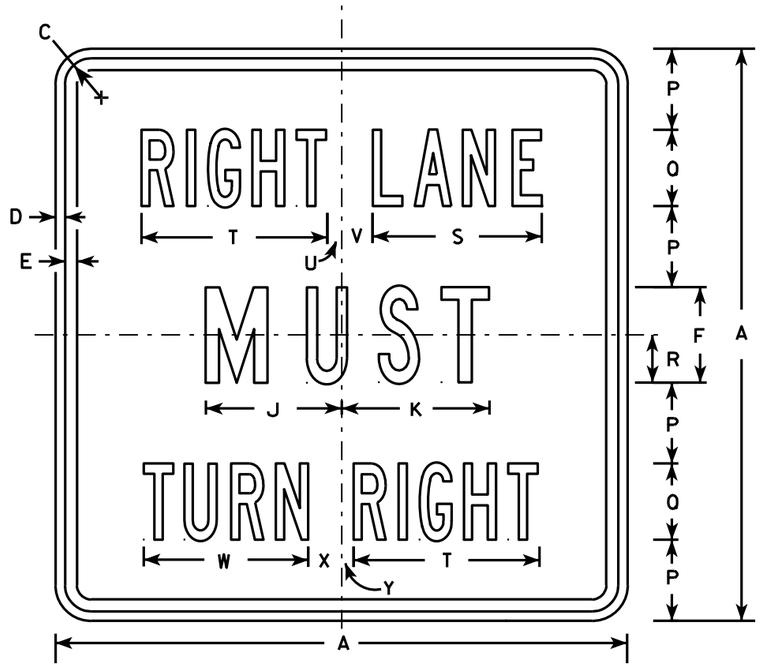
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/17/2011 PLATE NO. R3-6.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 801 | E



R3-7L



R3-7R

NOTES

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

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

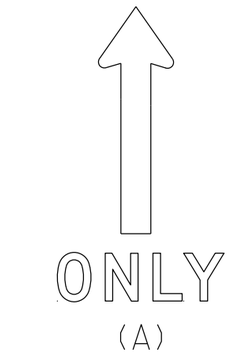
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

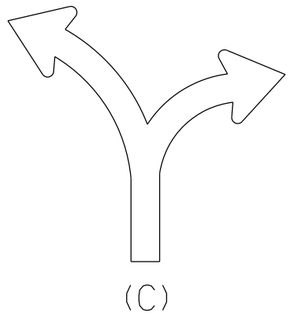
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 802	E

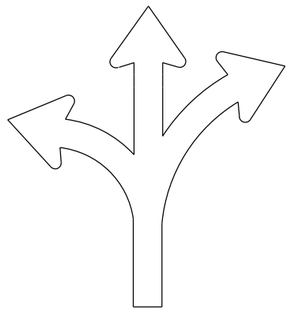


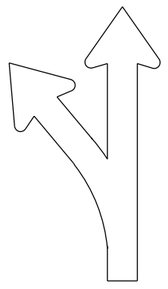
(A)

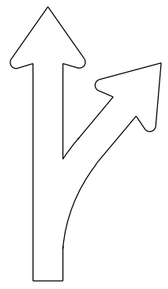


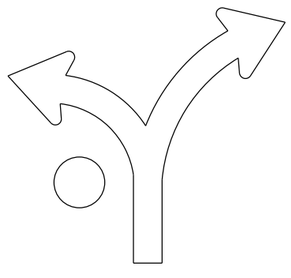
(B)

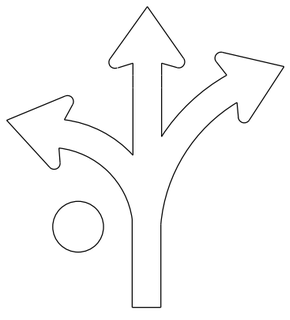

(C)

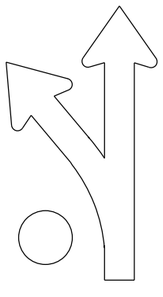

(D)


(E)


(F)

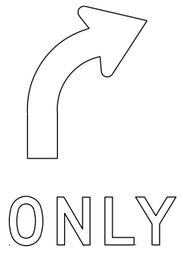

(G)


(H)

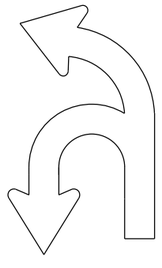

(I)



(L)



(R)


(U)

NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1	Letter =	3.75 sq ft for Size 2
		6.0 sq ft for Size 3
		10.0 sq ft for Size 4 or 5
2	Letters =	7.5 sq ft for Size 2
		12.0 sq ft for Size 3
		20.0 sq ft for Size 4 or 5
3	Letters =	11.25 sq ft for Size 2
		18.0 sq ft for Size 3
		30.0 sq ft for Size 4 or 5
4	Letters =	15.0 sq ft for Size 2
		24.0 sq ft for Size 3
		40.0 sq ft for Size 4 or 5
5	Letters =	18.75 sq ft for Size 2
		30.0 sq ft for Size 3
		50.0 sq ft for Size 4 or 5
6	Letters =	22.5 sq ft for Size 2
		36.0 sq ft for Size 3
		60.0 sq ft for Size 4 or 5

6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq. Ft. changes.
   Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

SHEET NO: 803 E

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 21-MAY 2019 4:37 PLOT BY : mscj9h PLOT NAME :

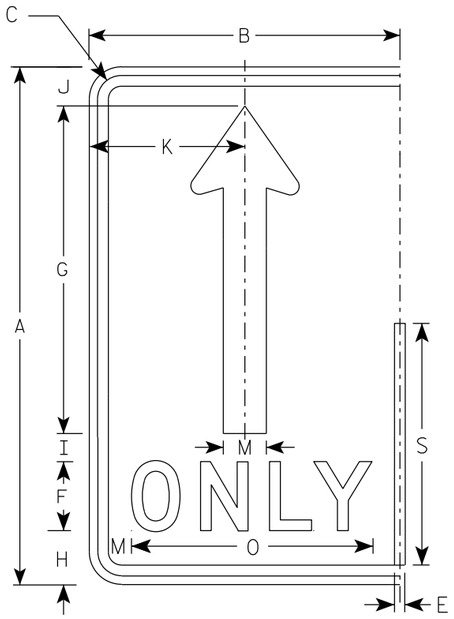
WISDOT/CADDS SHEET 42

7

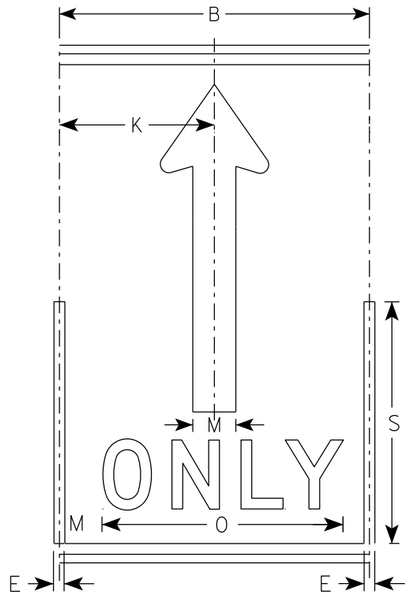
7

NOTES

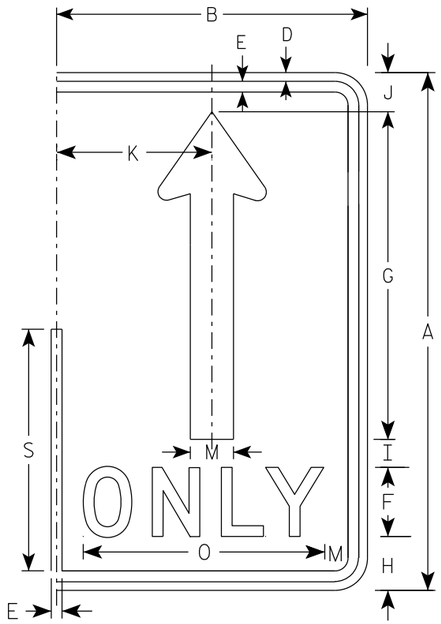
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



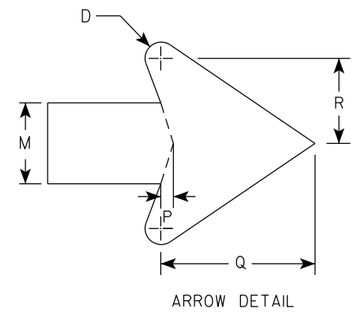
(A)



(A)



(A)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

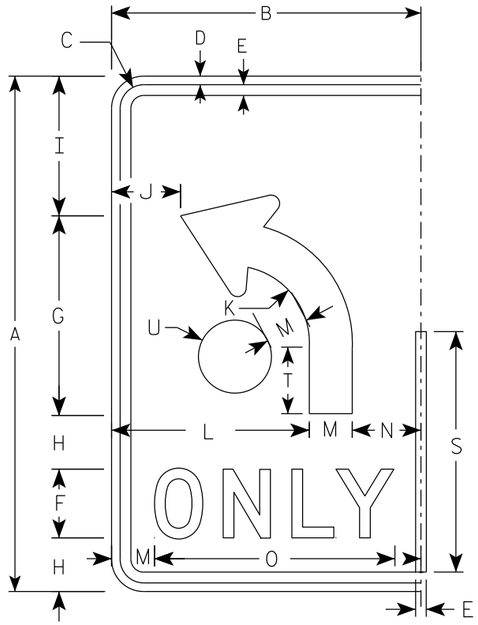
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

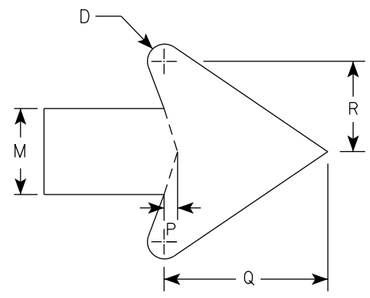
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 804 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

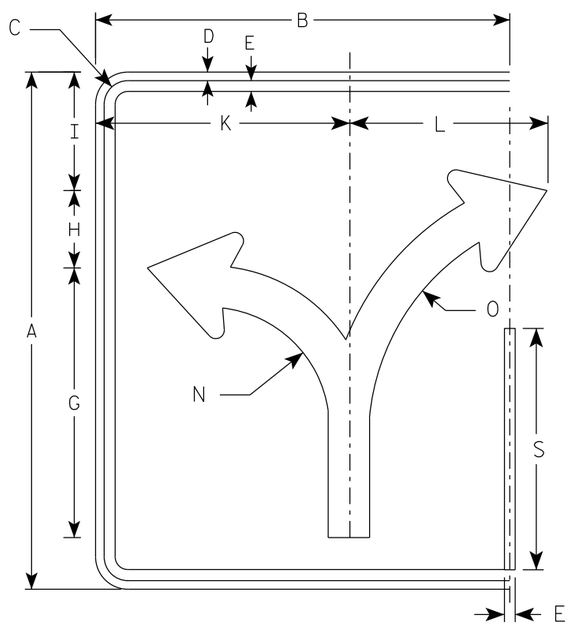
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

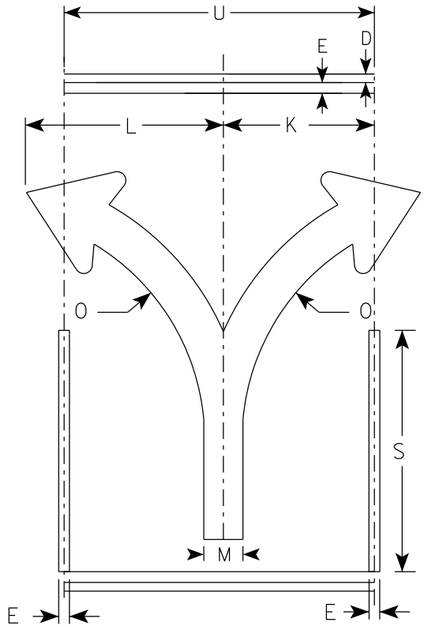
SHEET NO: 805 E

NOTES

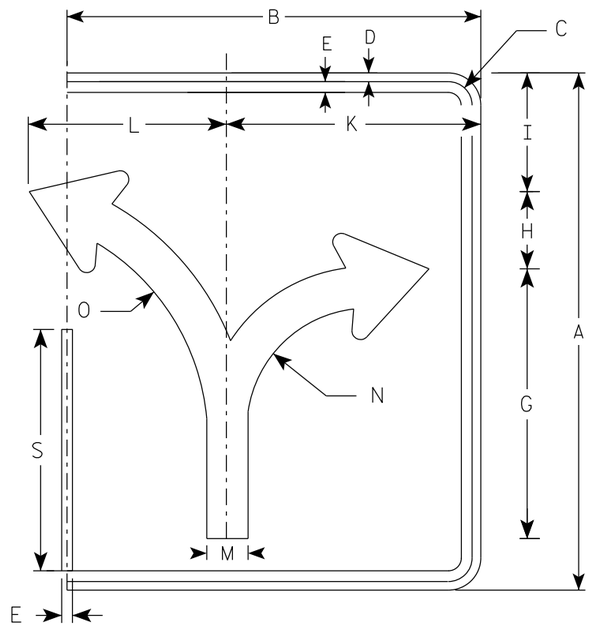
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



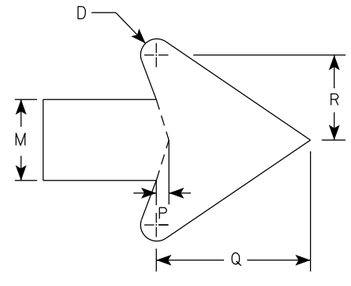
(C)



(C)



(C)



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	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

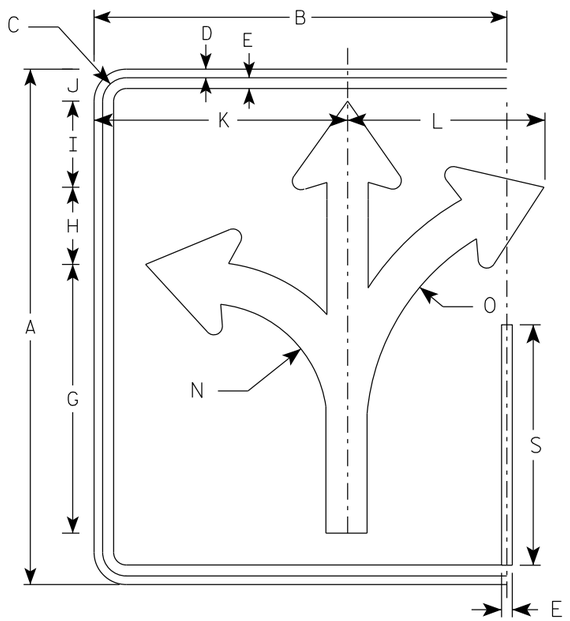
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

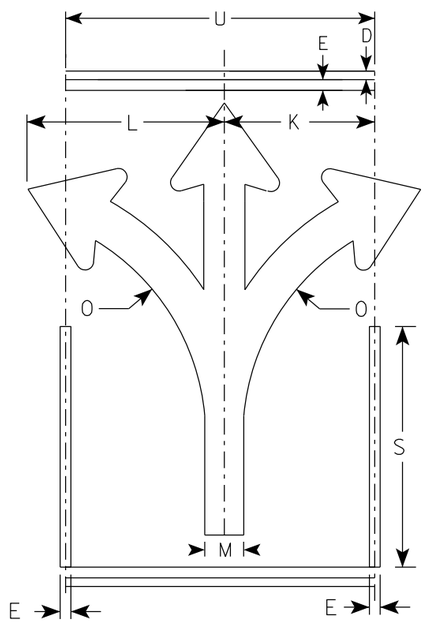
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 806 | E

NOTES

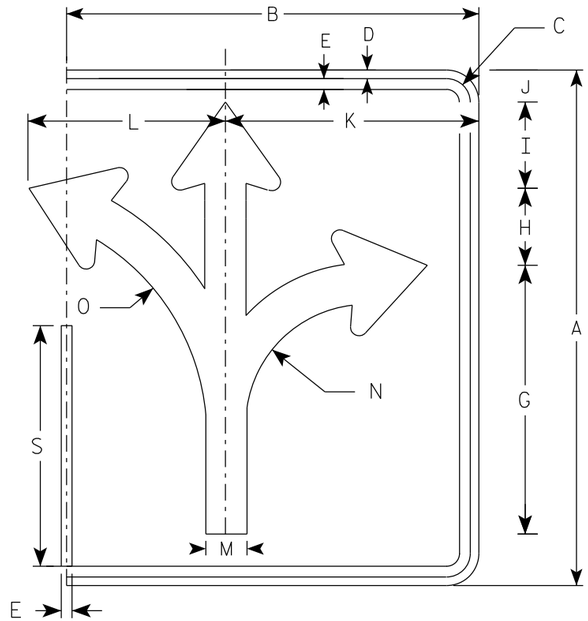
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



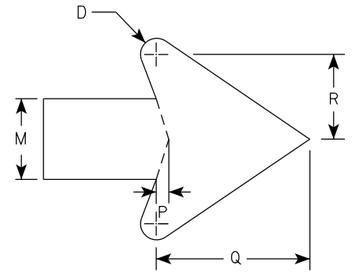
(D)



(D)



(D)



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	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

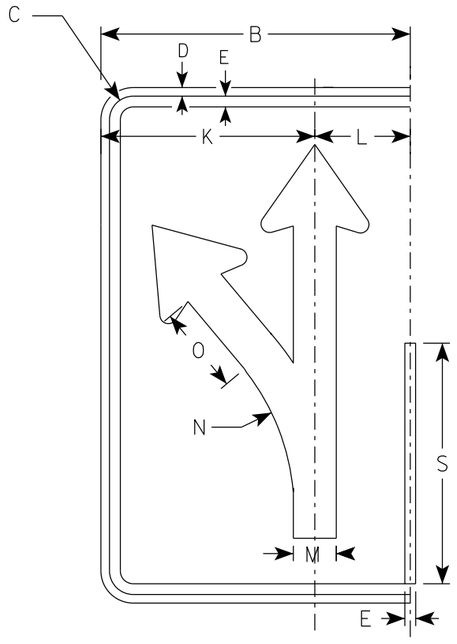
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

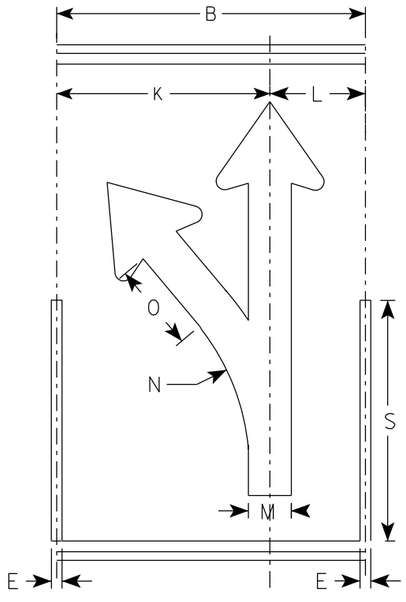
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 807 | E

NOTES

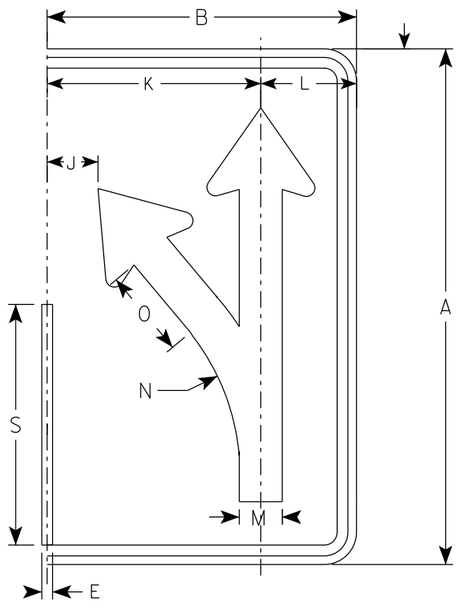
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



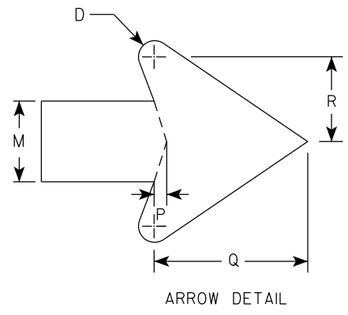
(E)



(E)



(E)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

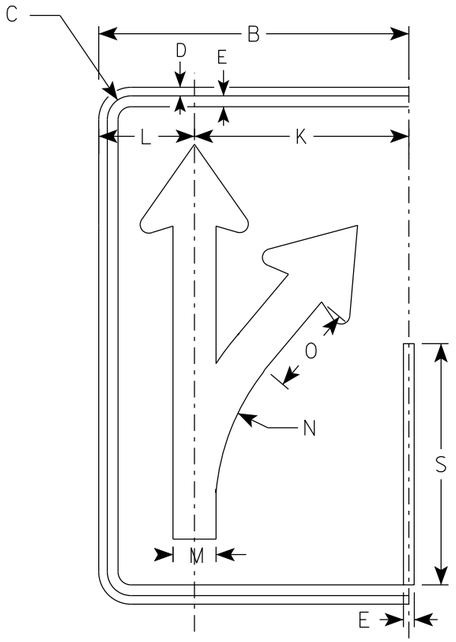
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

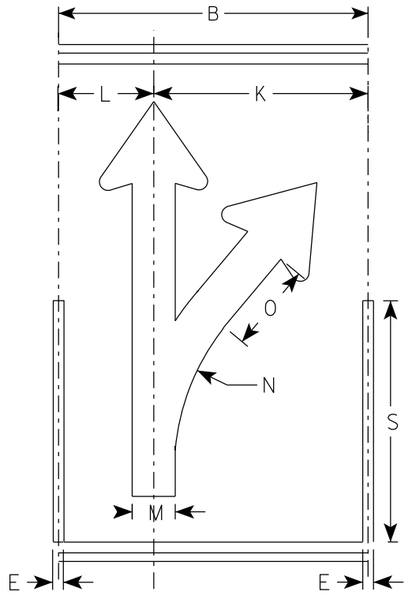
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 808 | E

NOTES

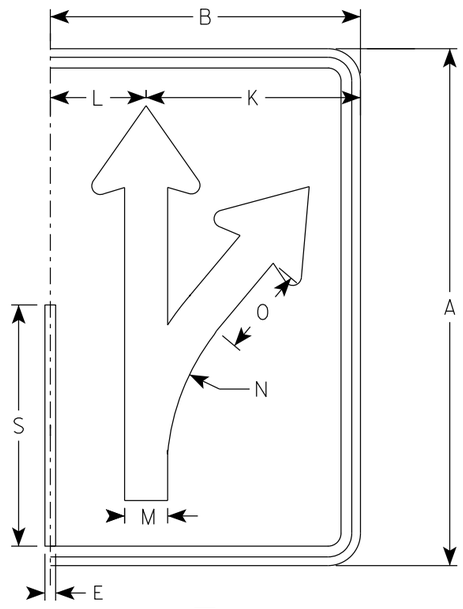
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



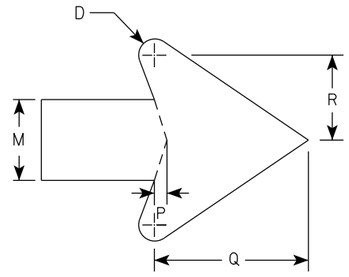
(F)



(F)



(F)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

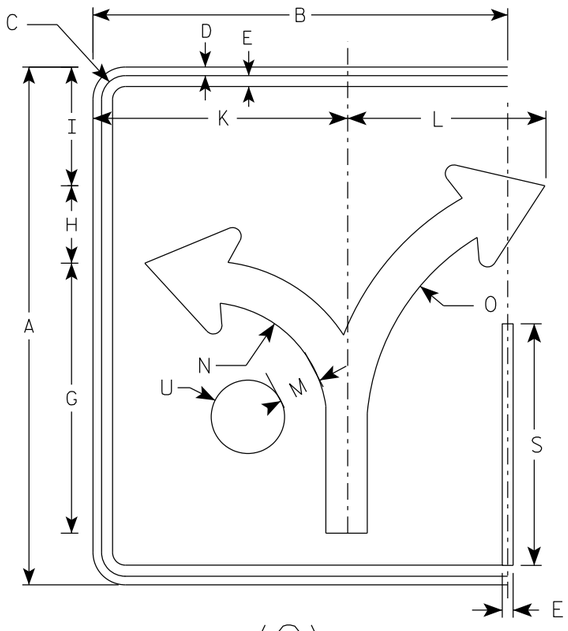
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

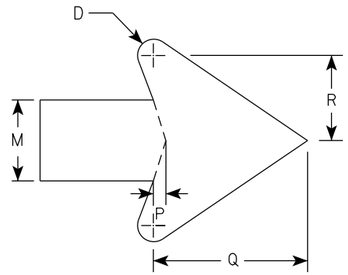
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 809 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

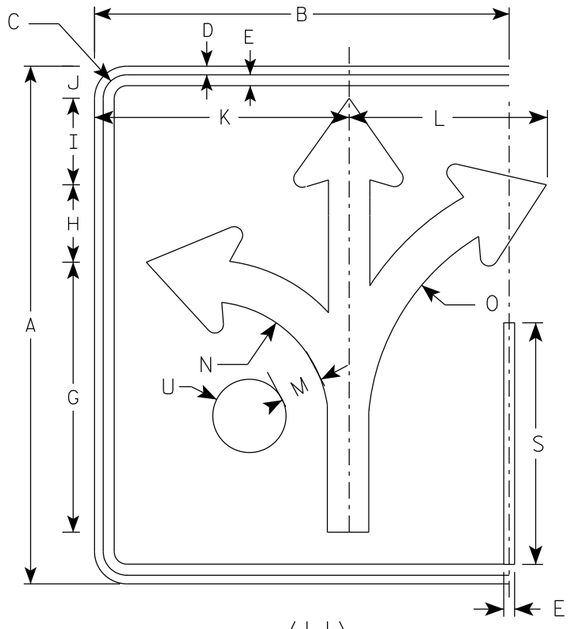
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

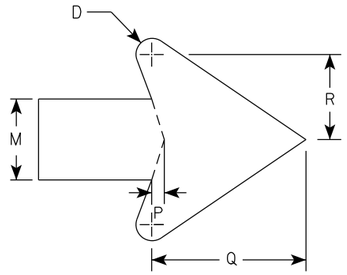
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 810 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

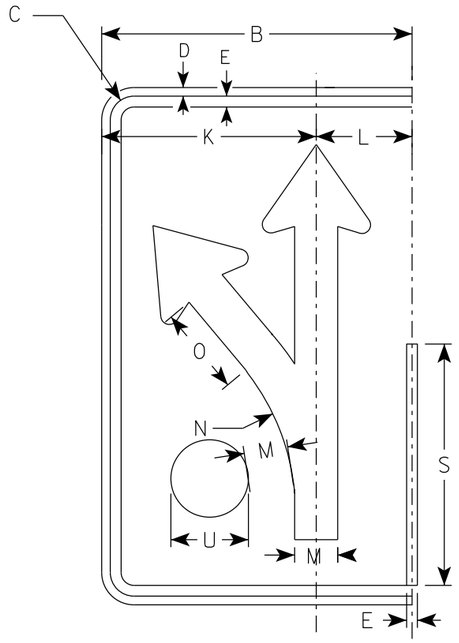
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

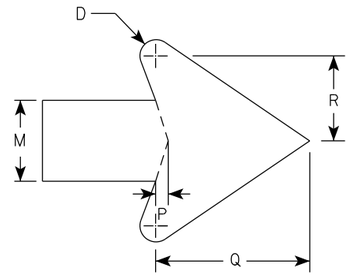
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 811	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

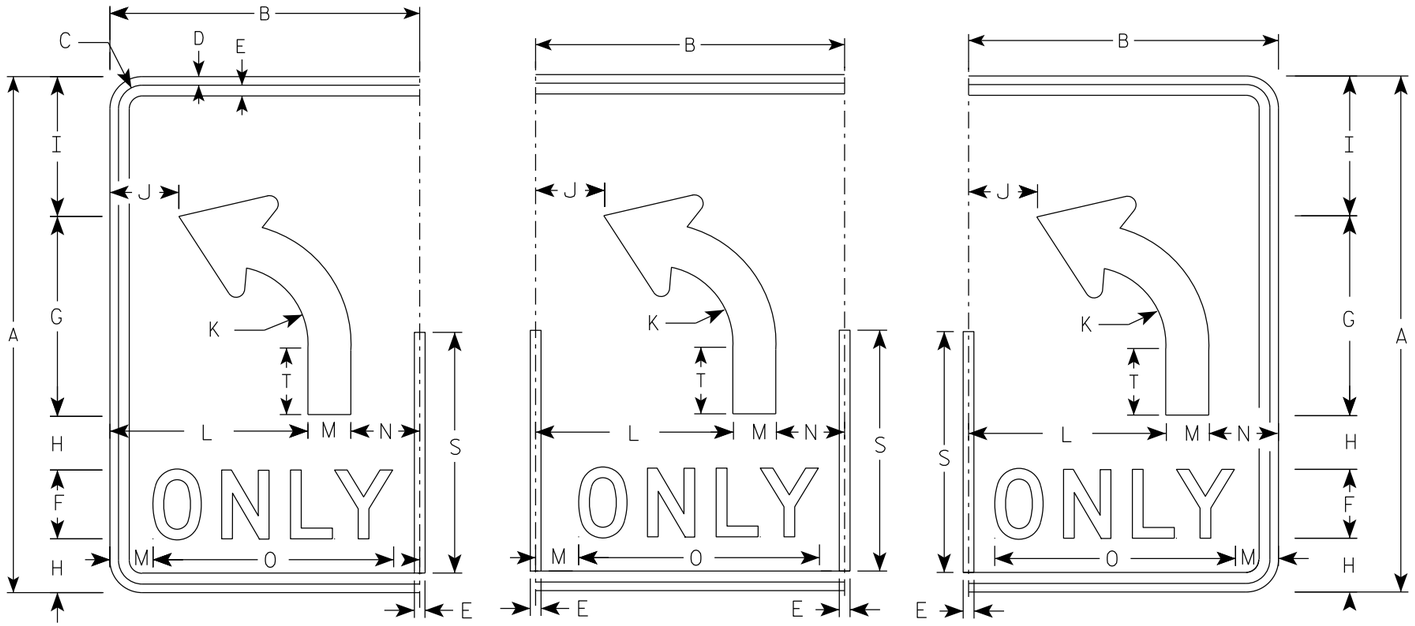
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

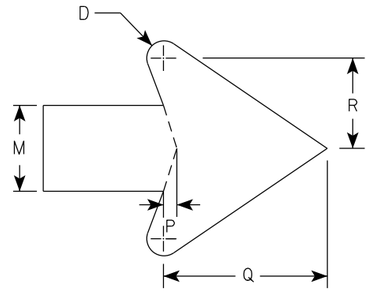
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 812 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



(L) (L) (L)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

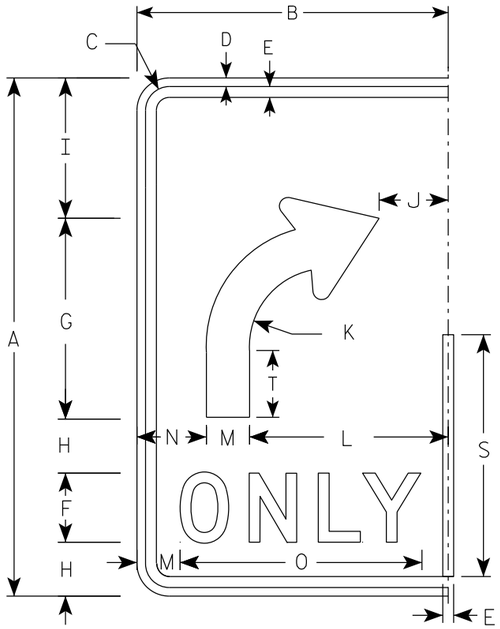
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

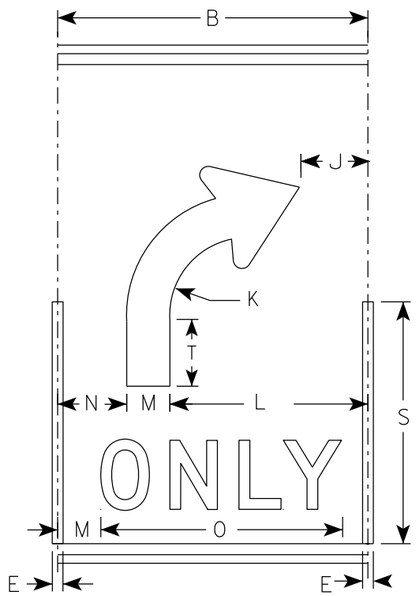
SHEET NO: 813 E

NOTES

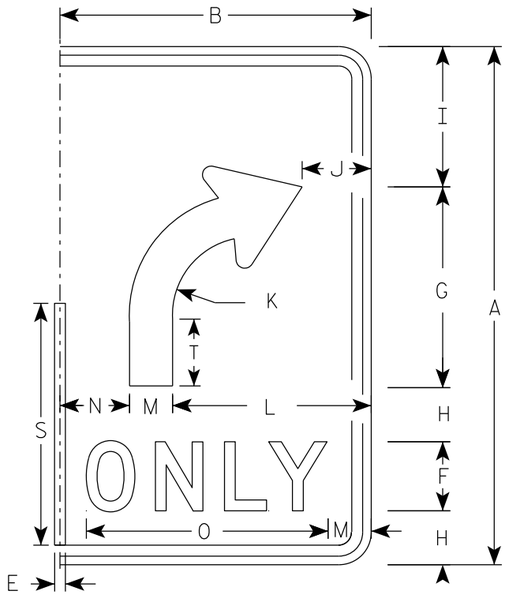
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



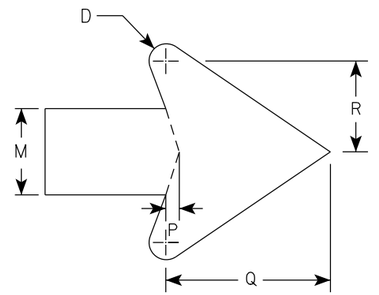
(R)



(R)



(R)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN
R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

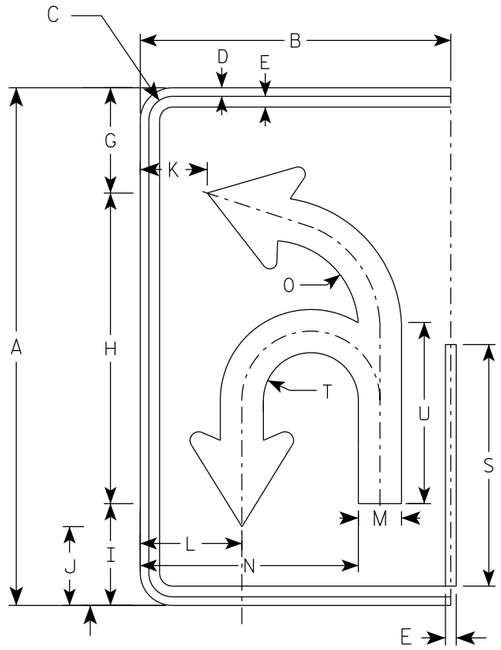
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

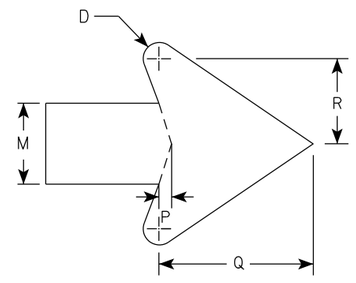
SHEET NO: 814 **E**

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(U)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

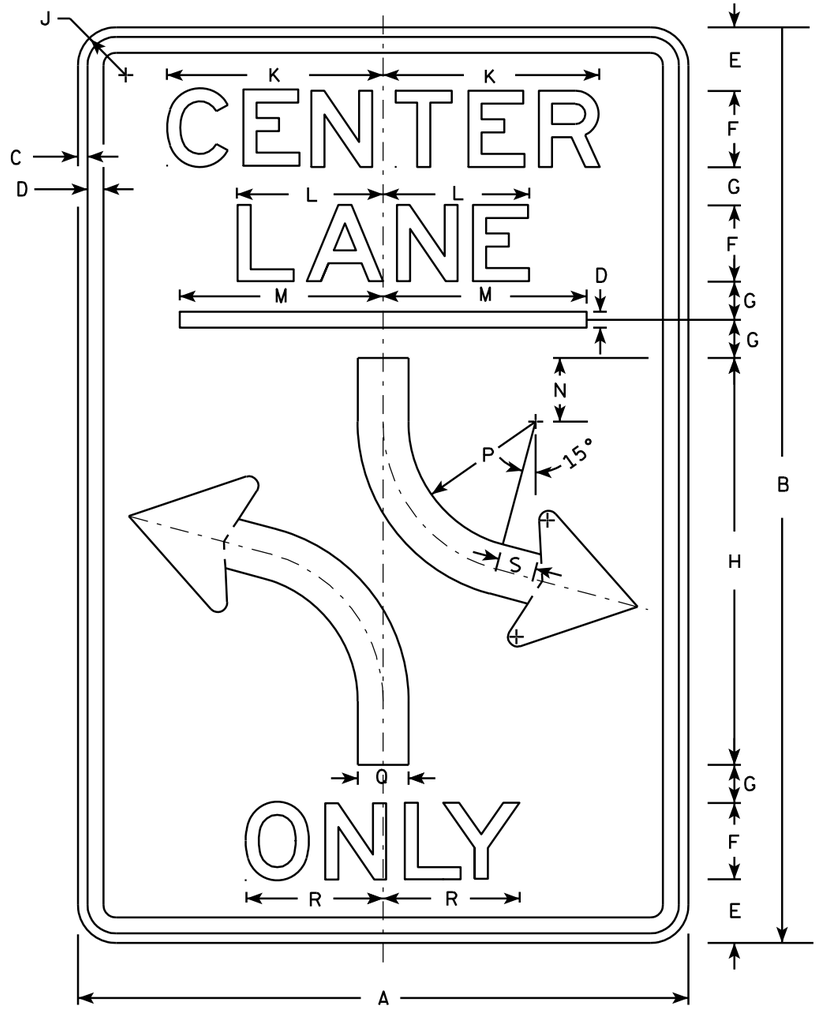
STANDARD SIGN
R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

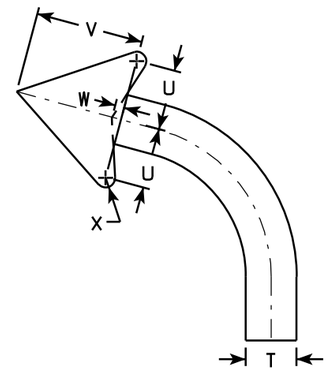
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 815 | E



R3-9B

NOTES

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



ARROW DETAIL

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

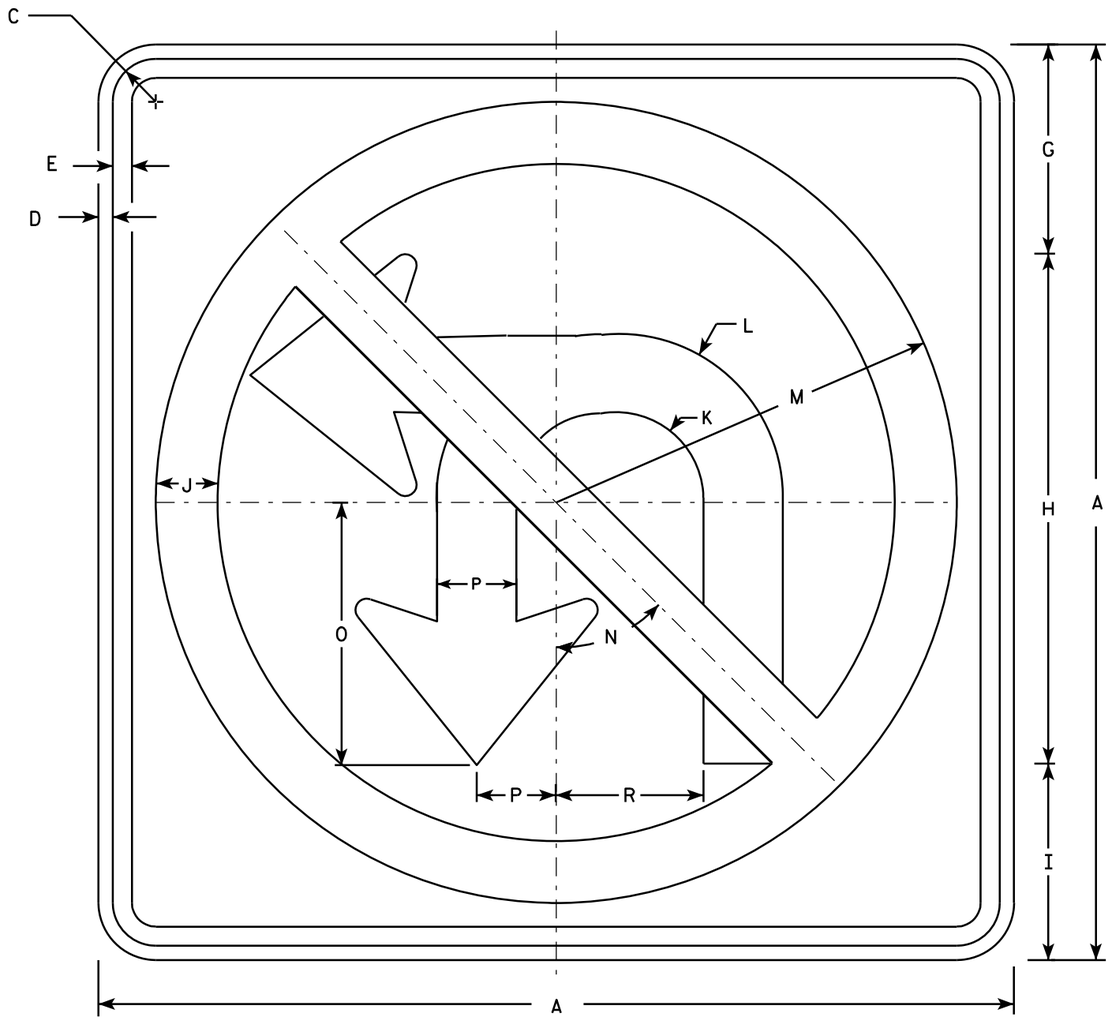
STANDARD SIGN
R3-9B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 816	E



R3-18

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - 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. Border & Arrow are non reflective black, the circle with diagonal bar is reflective 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																											
2S	24		1 1/8	3/8	1/2		5 1/2	13 3/8	5 1/8	1 5/8	2 1/4	4 1/4	10 1/2	45°	6 7/8	2 1/8		3 7/8									4.0
2M	36		1 5/8	5/8	3/4		8 1/4	20	7 3/4	2 1/2	3 3/8	6 1/2	15 3/4	45°	10 3/8	3 1/8		5 3/4									9.0
3	36		1 5/8	5/8	3/4		8 1/4	20	7 3/4	2 1/2	3 3/8	6 1/2	15 3/4	45	10 3/8	3 1/8		5 3/4									9.0
4	36		1 5/8	5/8	3/4		8 1/4	20	7 3/4	2 1/2	3 3/8	6 1/2	15 3/4	45	10 3/8	3 1/8		5 3/4									9.0
5	48		2 1/4	3/4	1		11	26 3/4	10 1/4	3 1/4	4 5/8	8 5/8	21	45°	13 3/4	4 1/8		7 3/4									16.0

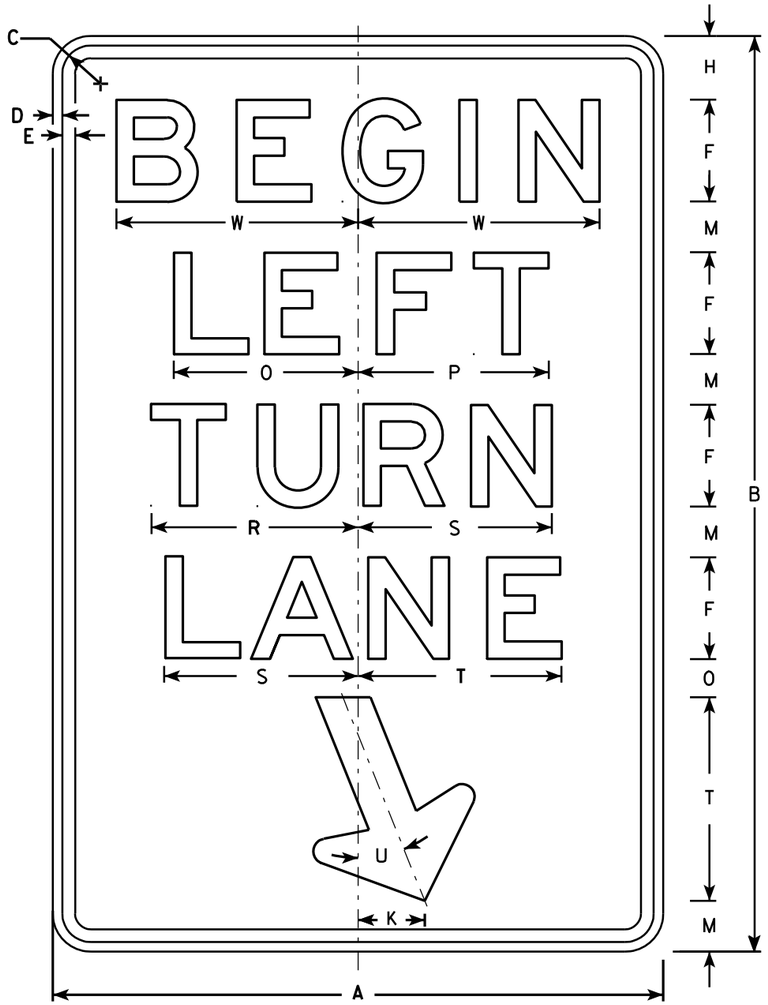
STANDARD SIGN
R3-18

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/21/10 PLATE NO. R3-18.2

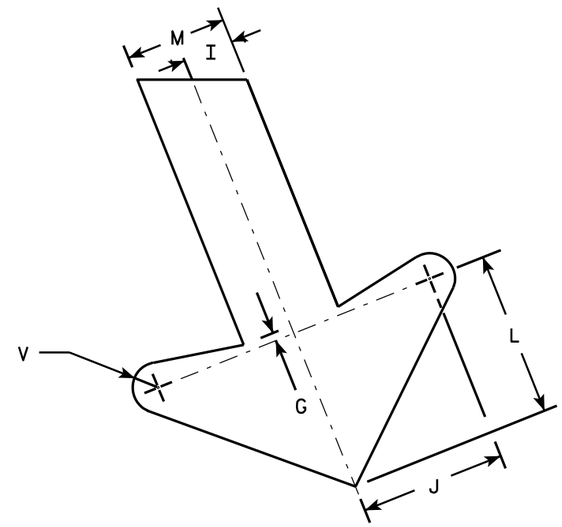
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 817	E



R3-20L

NOTES

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



ARROW DETAIL

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

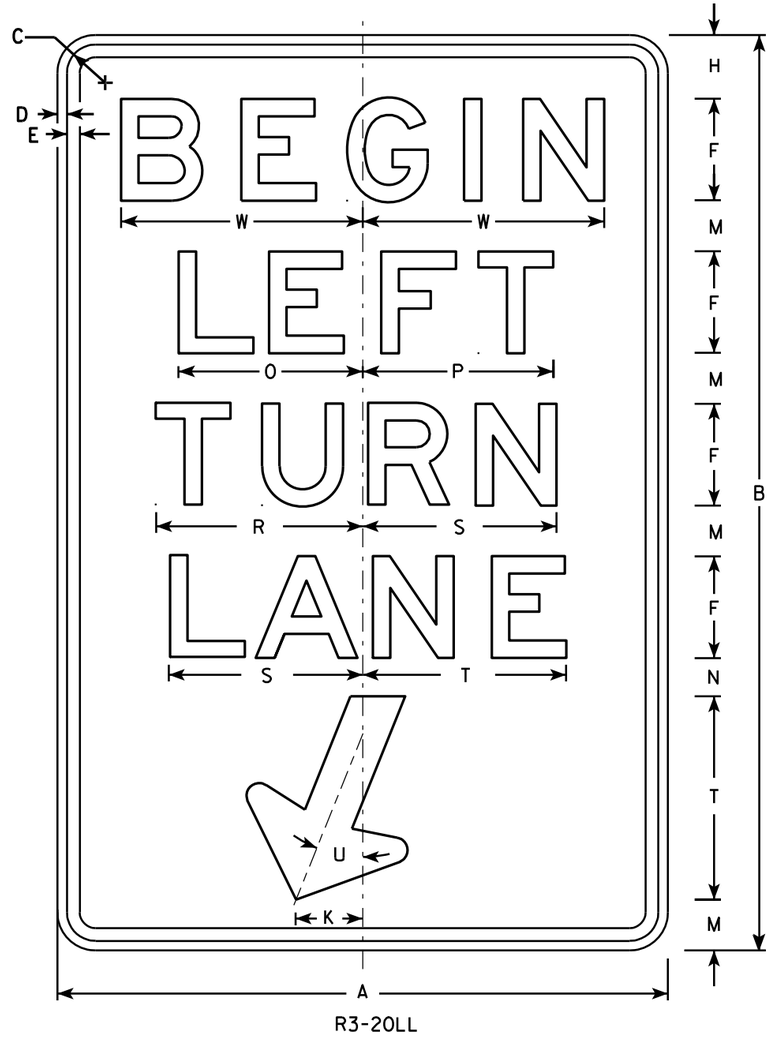
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

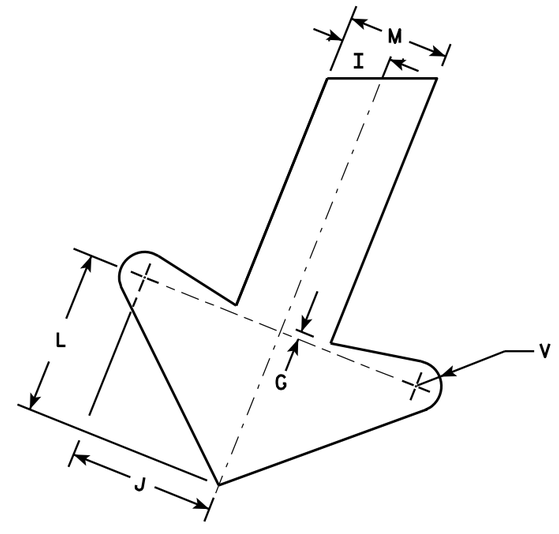
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 818 | E



R3-20LL

NOTES

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



ARROW DETAIL

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

STANDARD SIGN
R3-20LL

WISCONSIN DEPT OF TRANSPORTATION

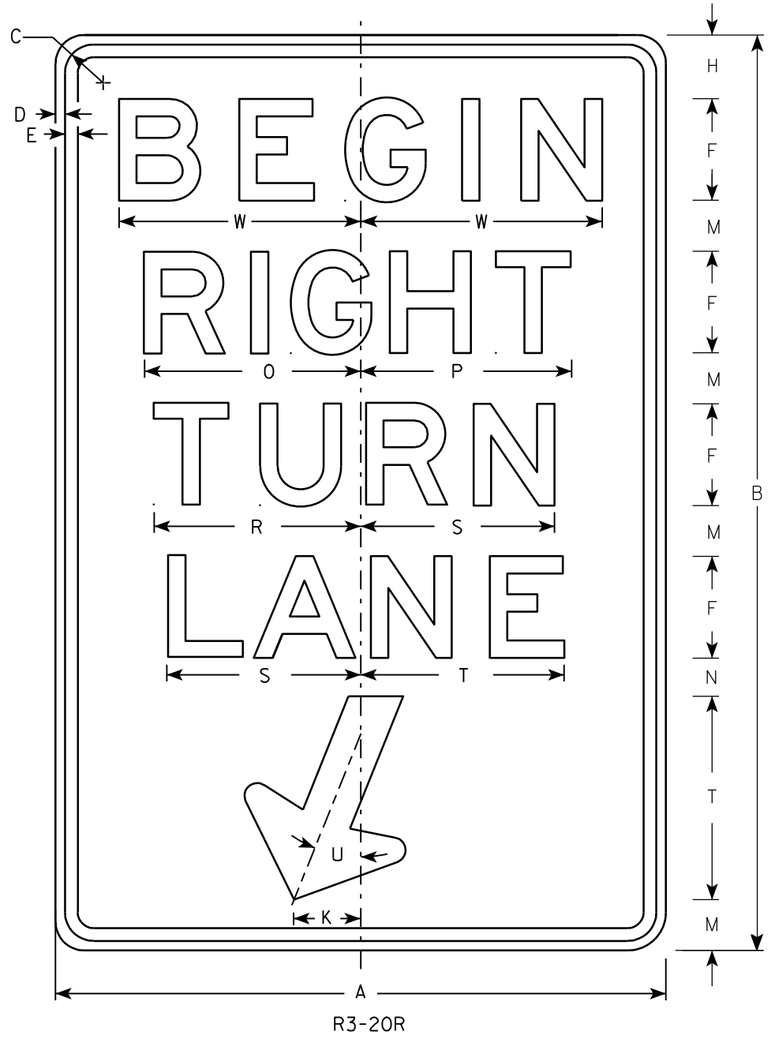
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20LL.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 819	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R320LL.DGN PLOT DATE : 15-OCT-2010 14:38 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

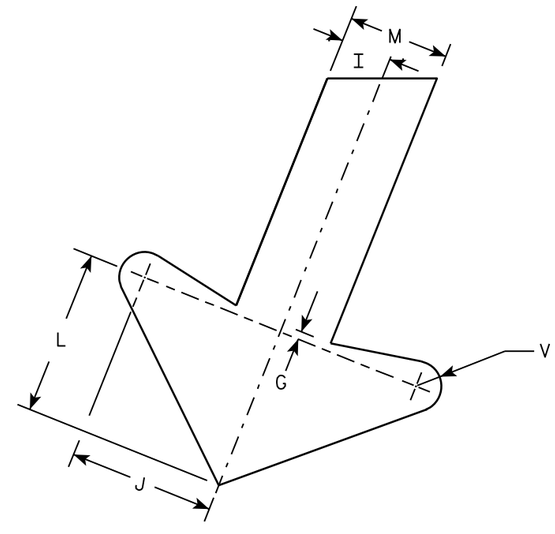
WISDOT/CADDS SHEET 42



R3-20R

NOTES

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



ARROW DETAIL

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

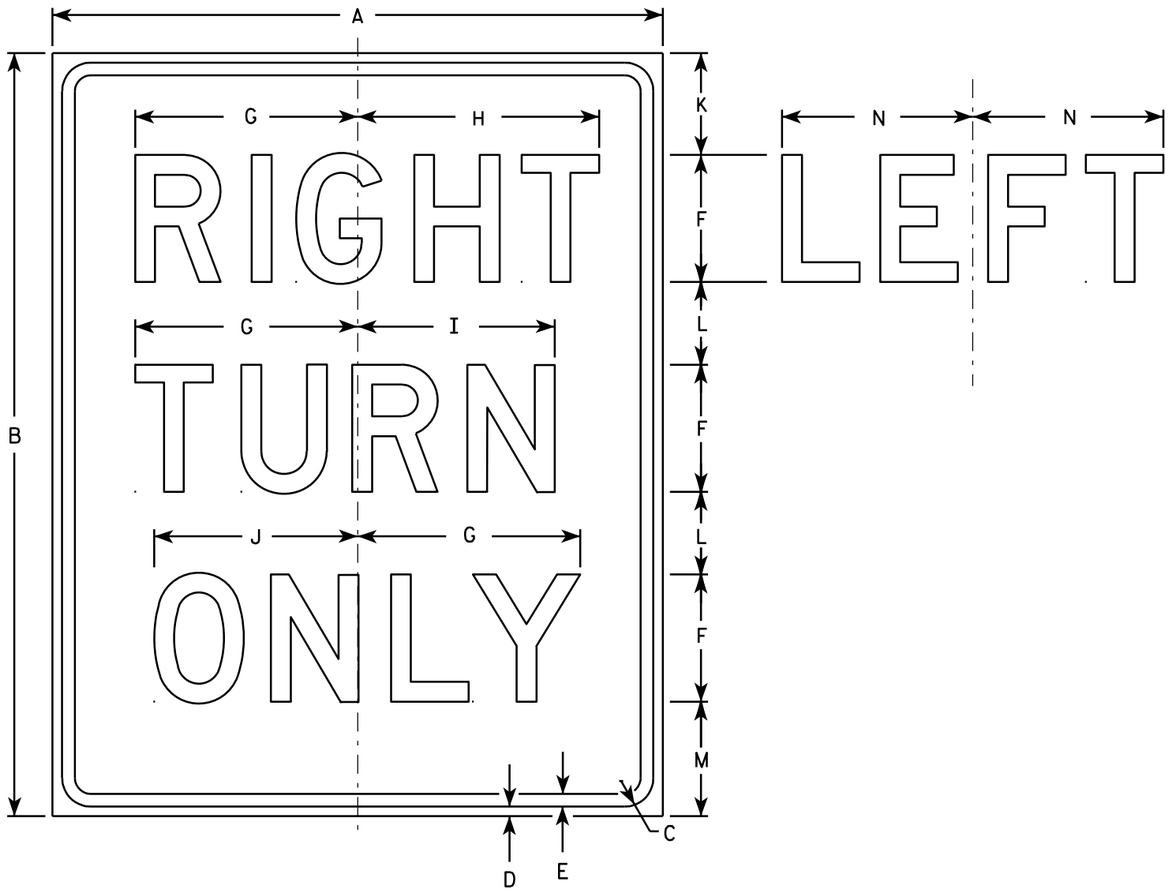
STANDARD SIGN
R3-20R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 820 | E



R3-53R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R3-53L same as R3-53R except LEFT is substituted for RIGHT.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
2M	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
3	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
4																											
5																											

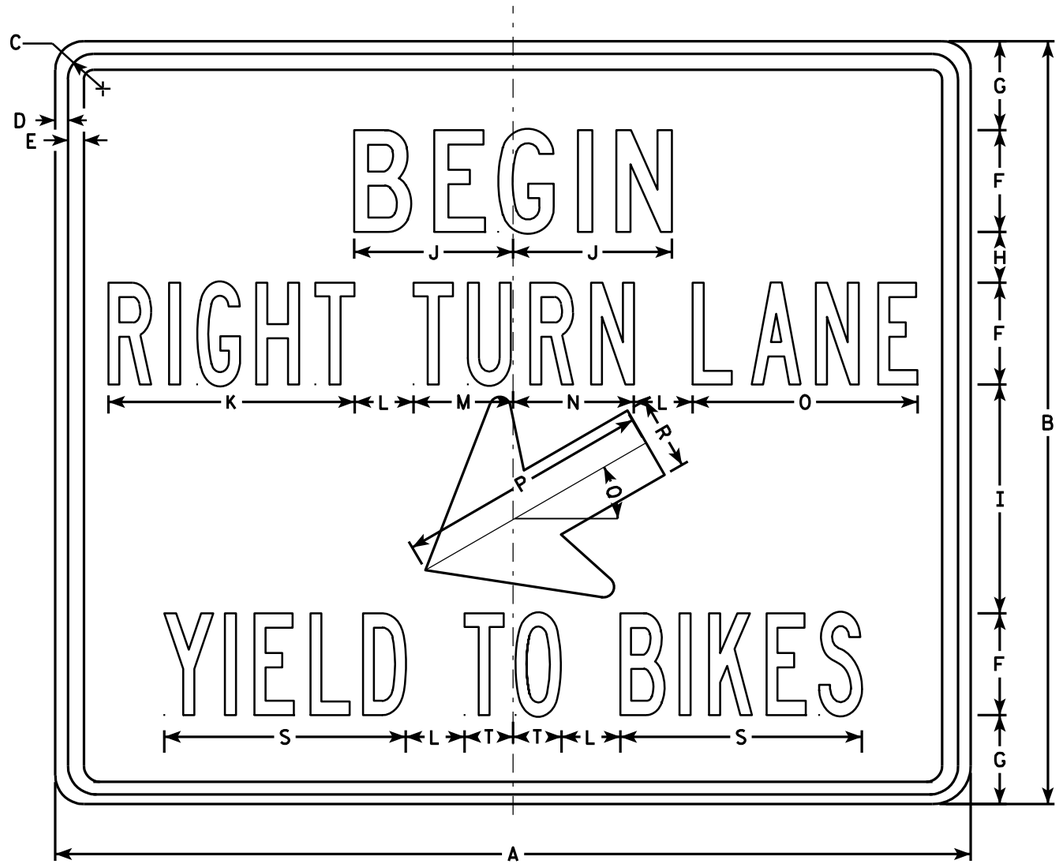
STANDARD SIGN
R3-53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-53.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 821	E



R4-4

NOTES

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

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	36	30	1 3/8	1/2	5/8	4	3 1/2	2	9	6 1/4	9 3/4	2 3/8	3 7/8	4 3/4	8 7/8	10	30°	2 7/8	9 1/2	1 7/8							7.5
2M	36	30	1 3/8	1/2	5/8	4	3 1/2	2	9	6 1/4	9 3/4	2 3/8	3 7/8	4 3/4	8 7/8	10	30°	2 7/8	9 1/2	1 7/8							7.5
3																											
4																											
5																											

STANDARD SIGN
R4-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-4.2

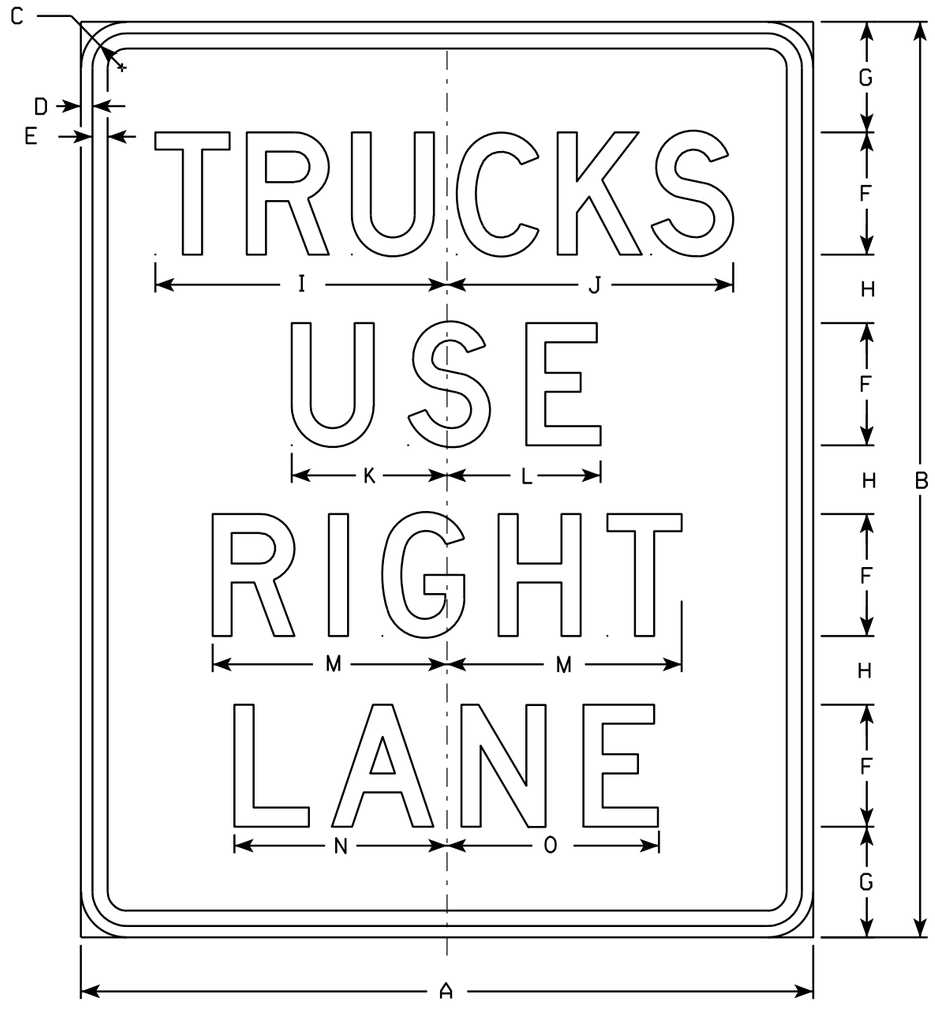
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 822 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R44.DGN PLOT DATE : 25-MAR-2011 13:45 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

7

7

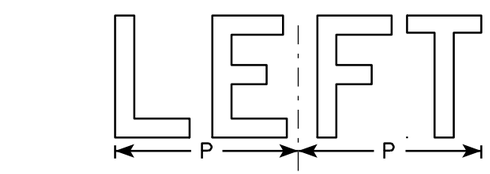


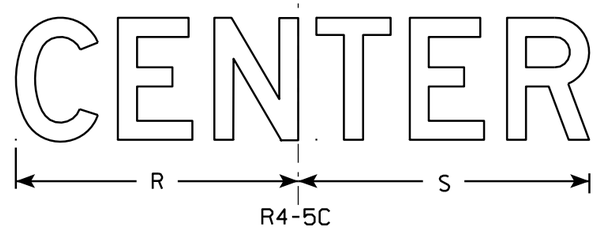
R4-5

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - 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. R4-5L & R4-5C are the same as R4-5 except LEFT or CENTER replaces RIGHT as order by code.

R4-5L





R4-5C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 5/8	9 3/8	5 1/8	5 1/8	7 3/4	7 1/4	7	6		9 1/4	9 1/2								5.0
2M	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 5/8	9 3/8	5 1/8	5 1/8	7 3/4	7 1/4	7	6		9 1/4	9 1/2								5.0
3																											
4	36	48	2 1/4	5/8	3/4	6	6	4	14 3/8	14 1/8	7 7/8	7 7/8	12 1/4	10 3/4	10 1/2	9 5/8		13 7/8	14 1/4								12.0
5	48	60	2 1/4	3/4	1	8	7 1/4	4 1/2	19 1/8	18 3/4	10 1/4	10 1/8	15 3/8	14	13 7/8	12		18 1/2	19 1/8								20.0

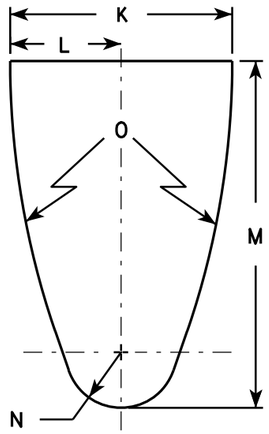
STANDARD SIGN
R4-5

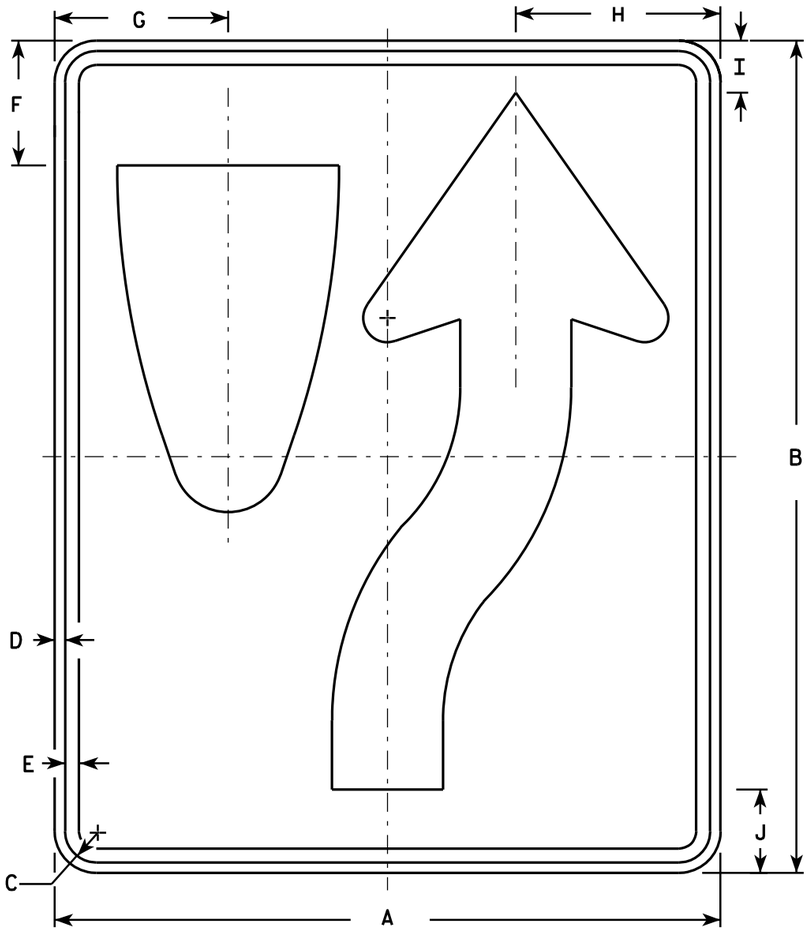
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-5.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 823	E

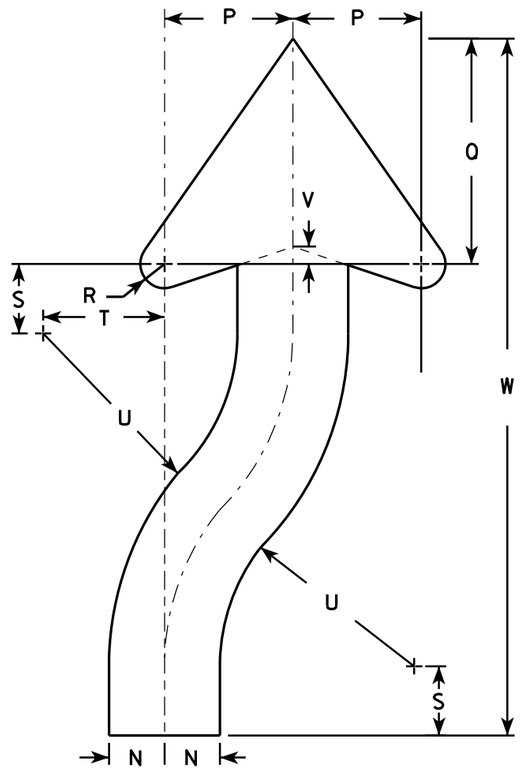




R4-7

NOTES

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



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 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

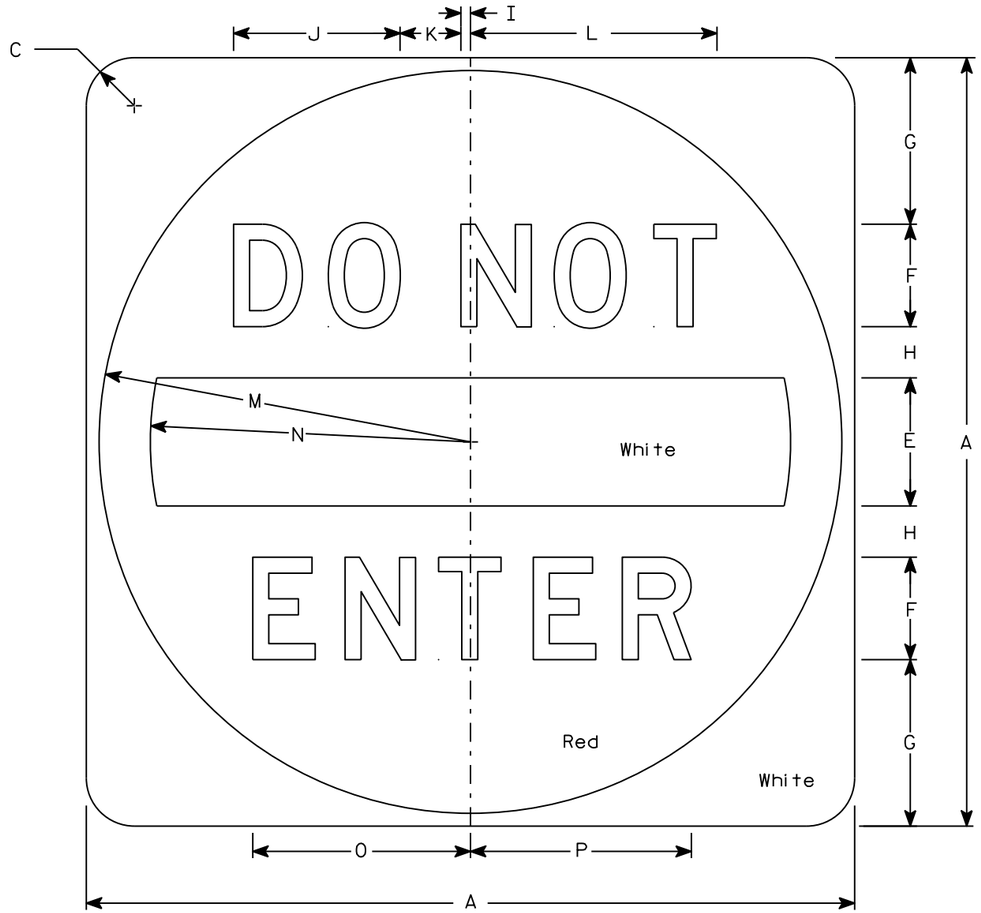
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 824	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

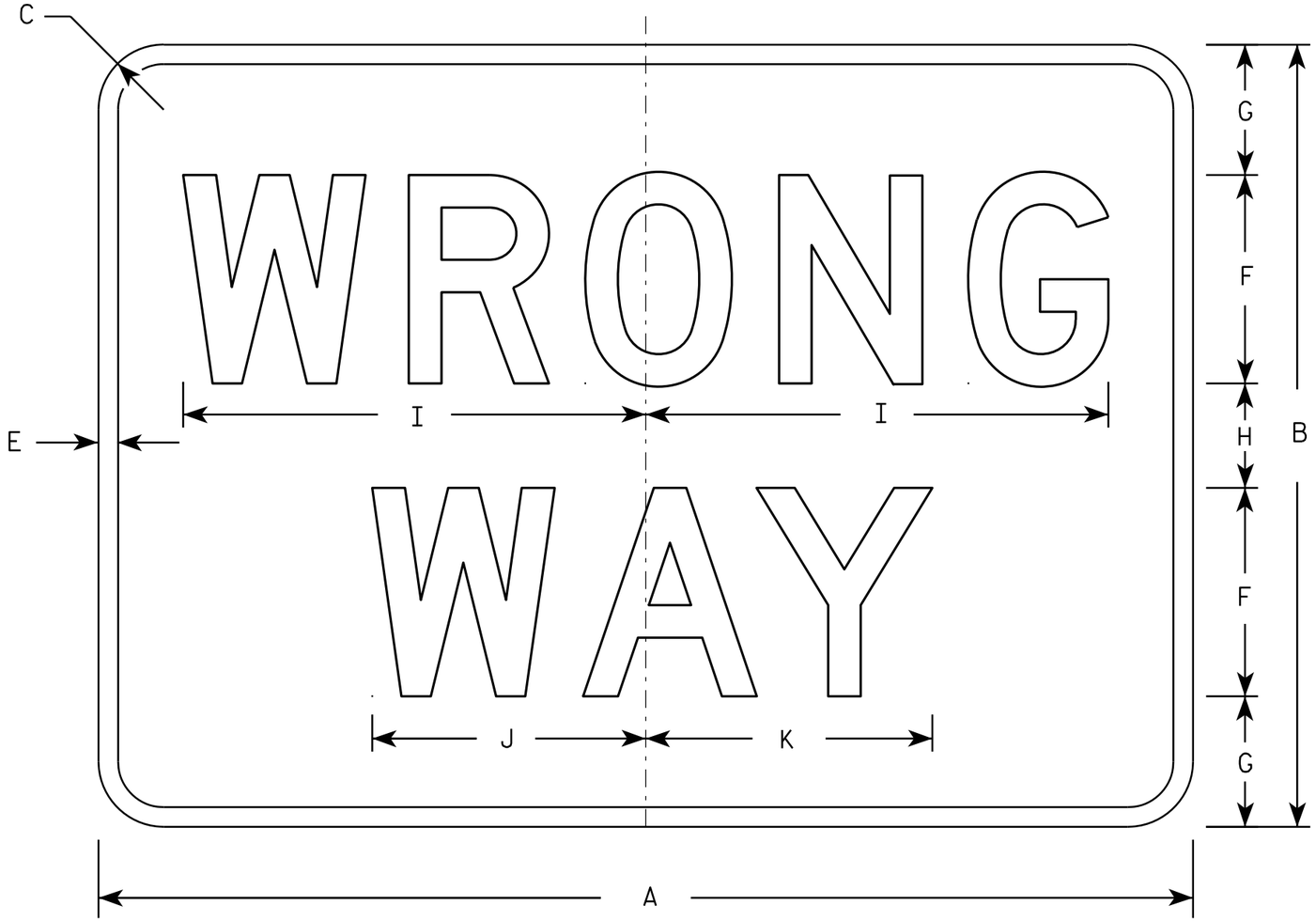
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 825 | E



R5-1A

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 826	E



R5-57

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Lines 1, 2, and 5 are Series C.
   Lines 3 and 4 are 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																											
2S																											
2M																											
3																											
4	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0
5	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0

STANDARD SIGN
R5-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-57.10

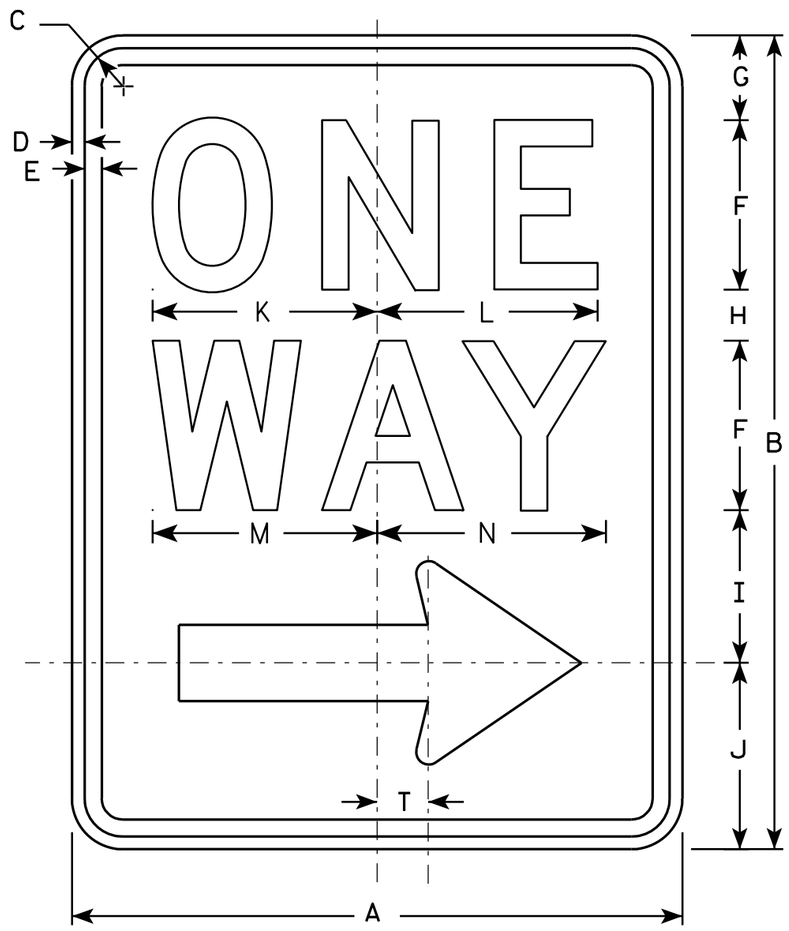
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 827 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R557.DGN PLOT DATE : 29-MAR-2011 14:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

7

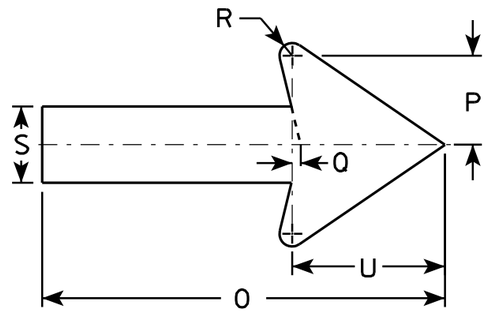
7



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

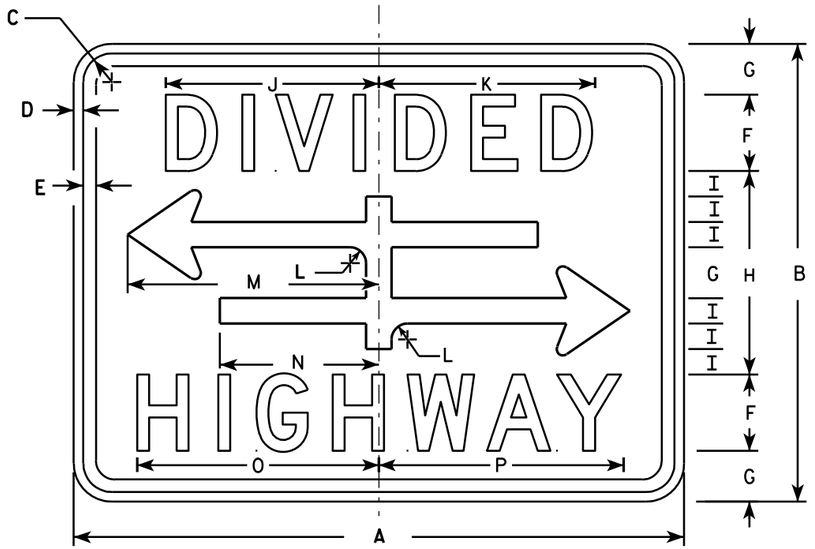
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

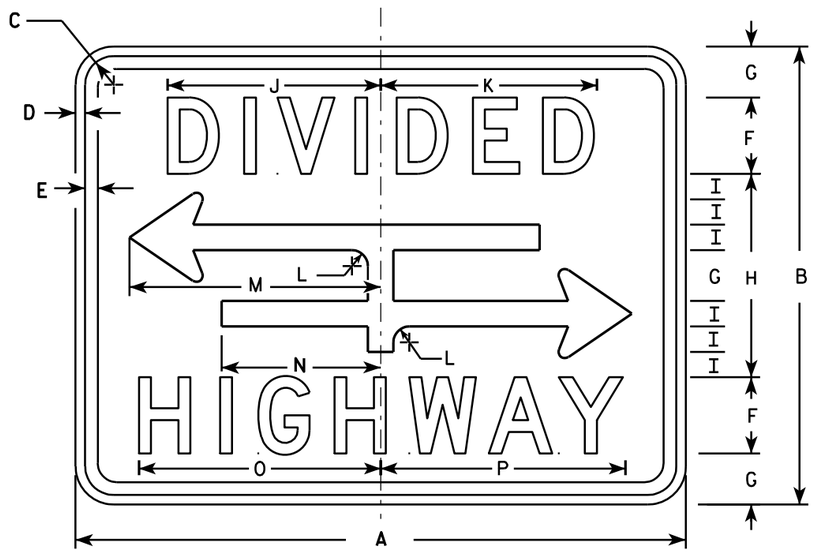
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 828	E



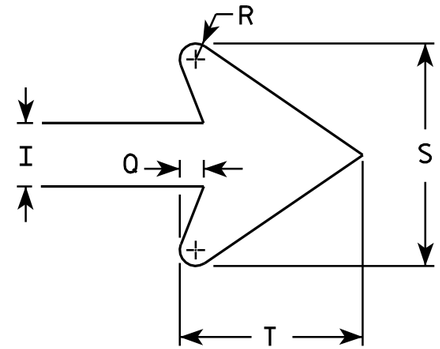
R6-3

NOTES

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



R6-3A



ARROW DETAIL

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

STANDARD SIGN
R6-3 & R6-3A

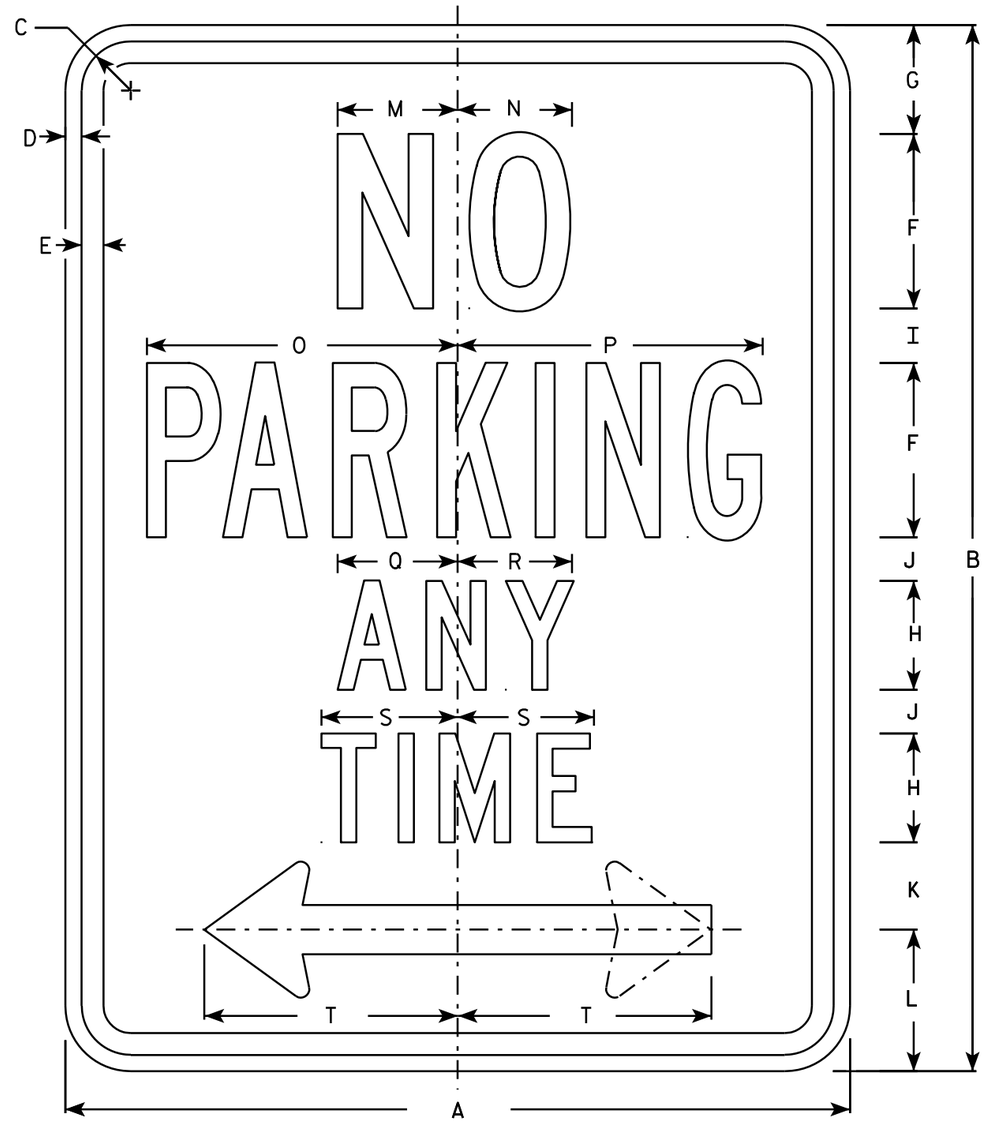
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

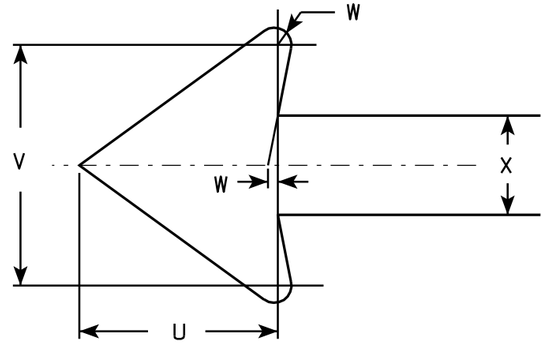
SHEET NO: 829 E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
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, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

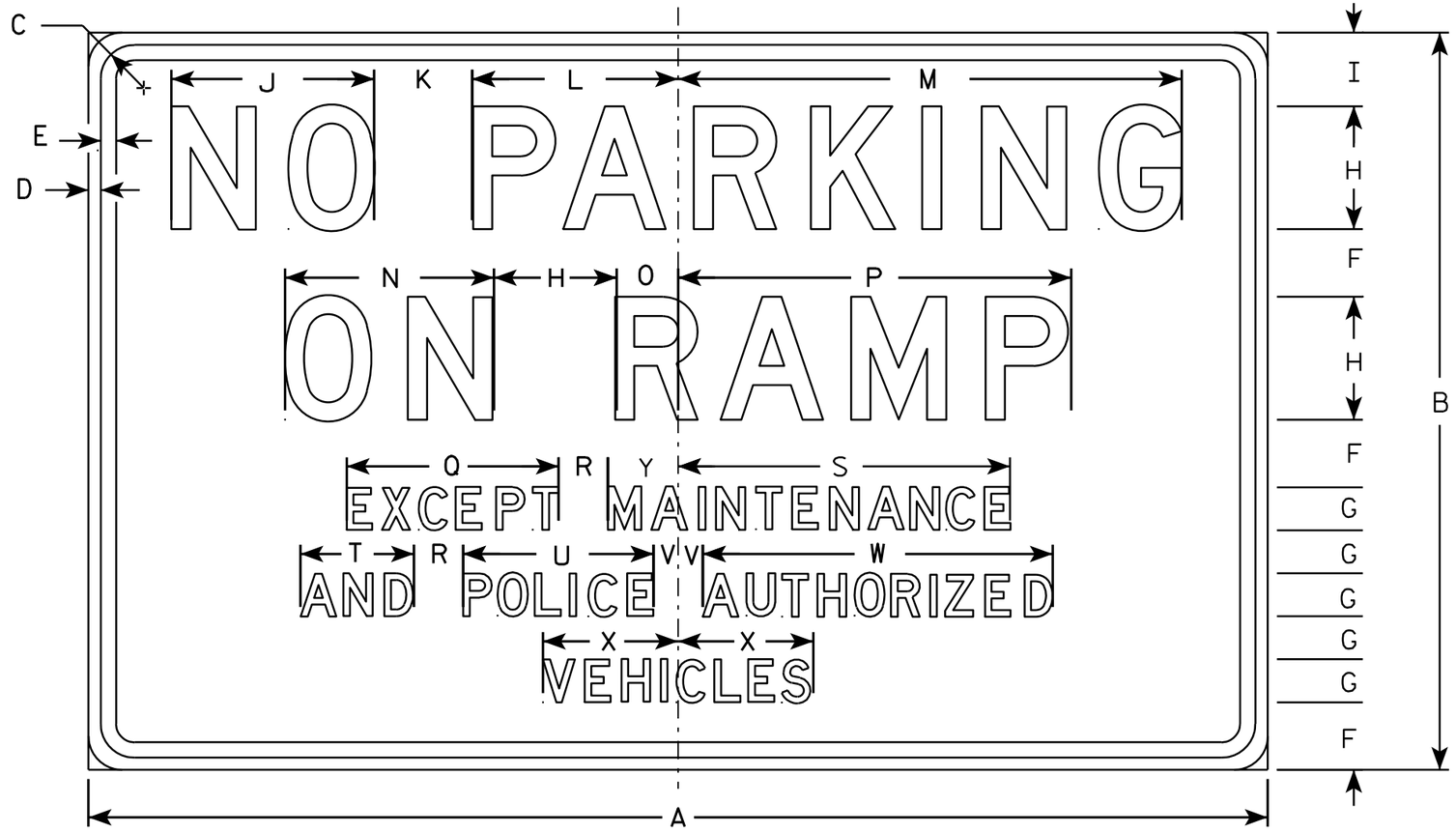
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 830 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

WISDOT/CADDS SHEET 42



R7-64

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3	48	30	1 3/8	1/2	5/8	2 3/4	1 3/4	5	3	8 1/4	4	8 3/8	20 1/2	8 1/2	2 1/2	16	8 5/8	2	13 5/8	4 5/8	7 3/4	1	14 1/4	5 1/2			10.0
4																											
5																											

STANDARD SIGN
R7-64

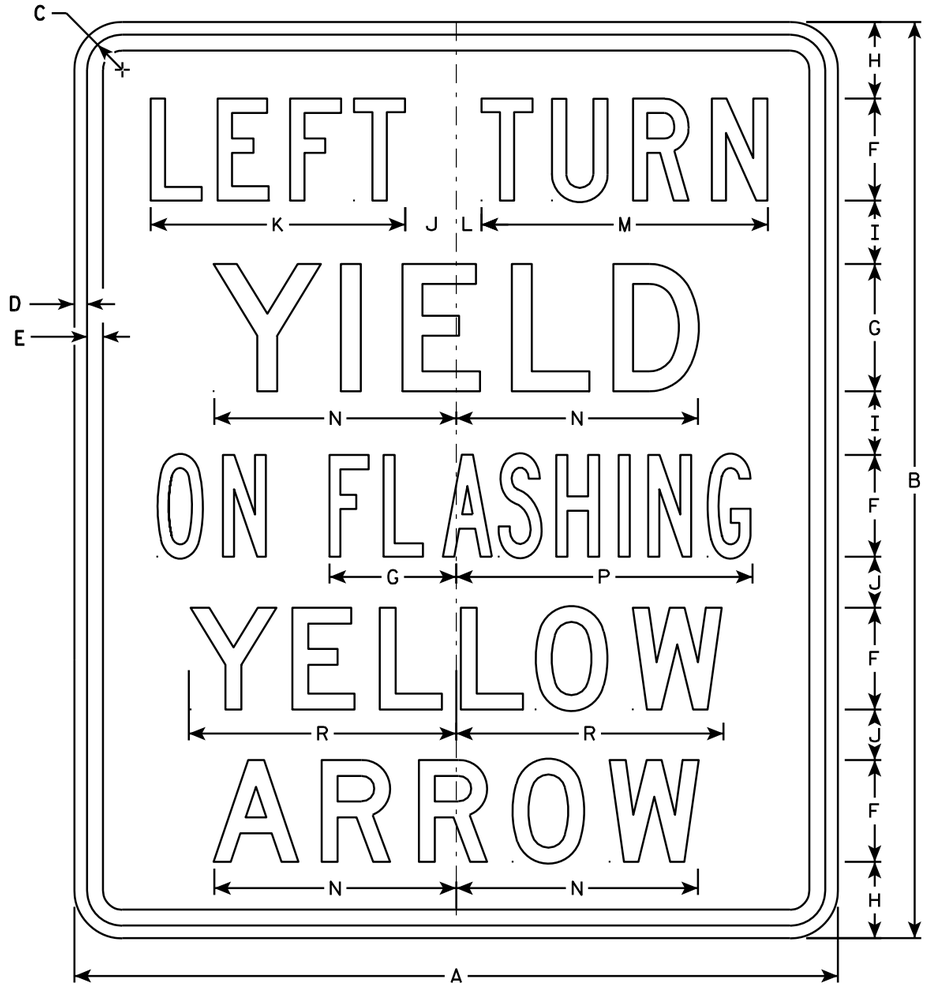
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-64.3

PROJECT NO:

SHEET NO: 831 E

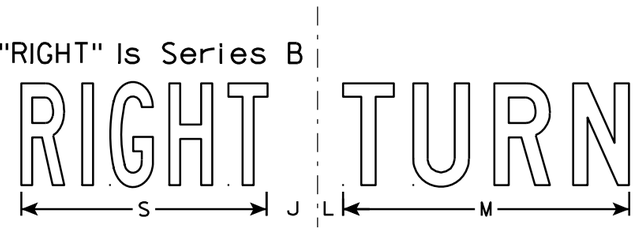


R10-50L

NOTES

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

"RIGHT" Is Series B



R10-50R

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	4	5	3	2 1/2	2	10	1	11 1/4	9 1/2	4 1/4	11 5/8		10 1/2	9 5/8								7.5
2M	30	36	1 3/8	1/2	5/8	4	5	3	2 1/2	2	10	1	11 1/4	9 1/2	4 1/4	11 5/8		10 1/2	9 5/8								7.5
3																											
4																											
5																											

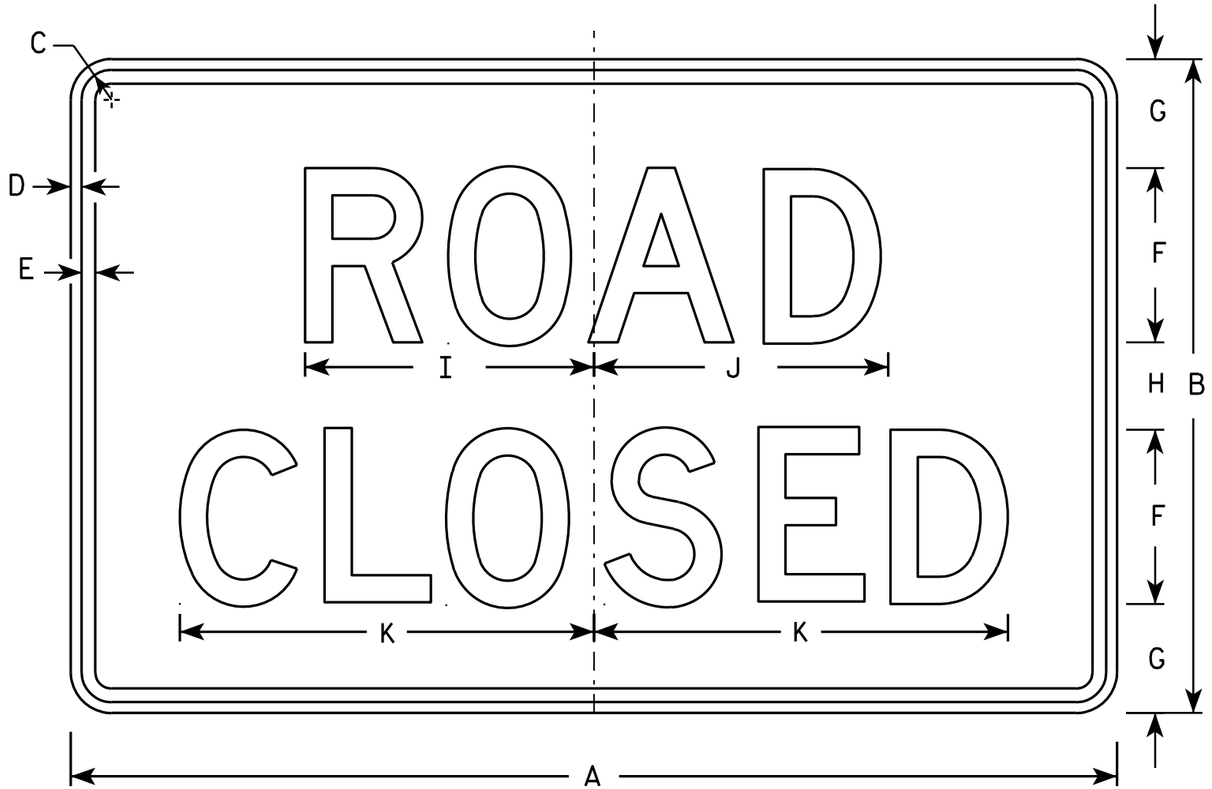
STANDARD SIGN
R10-50

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/11/13 PLATE NO. R10-50.2

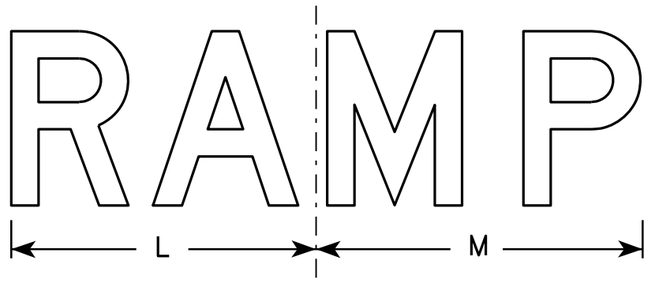
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 832	E



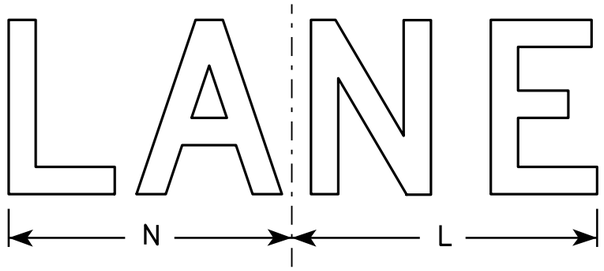
R11-2

NOTES

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



R11-2R



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 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

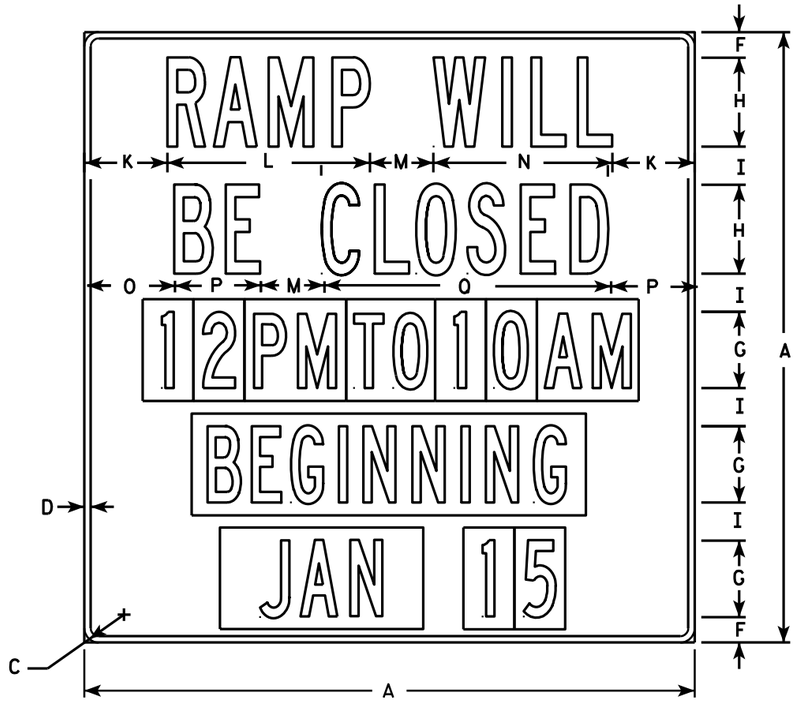
STANDARD SIGN
R11-2

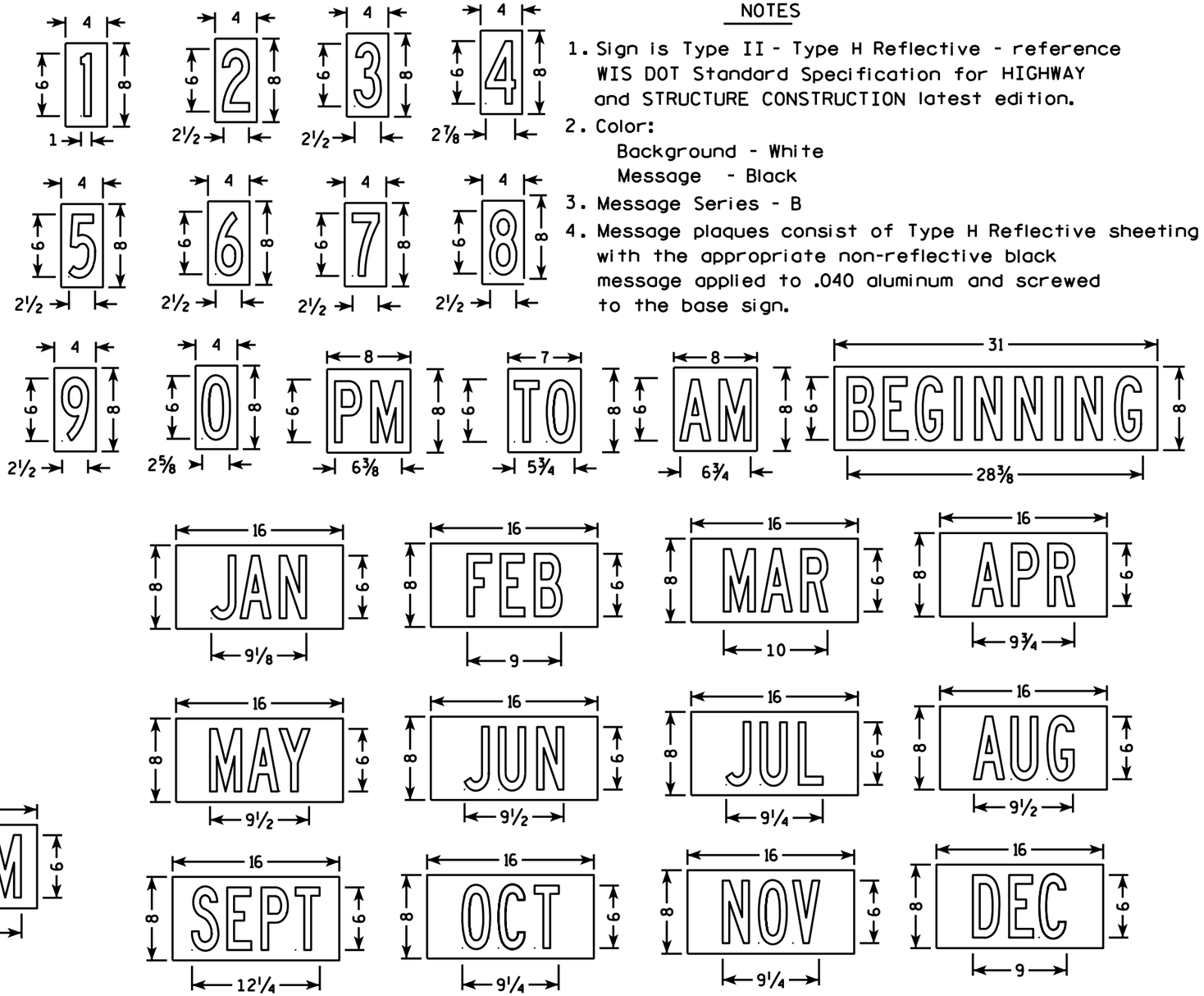
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 833	E





NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - B
4. Message plaques consist of Type H Reflective sheeting with the appropriate non-reflective black message applied to .040 aluminum and screwed to the base sign.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	1/2		2	6	7	3		6 1/2	15 7/8	5	14 1/8	6 7/8	6 3/4	22 1/2										16.0
2M	48		2 1/4	1/2		2	6	7	3		6 1/2	15 7/8	5	14 1/8	6 7/8	6 3/4	22 1/2										16.0
3																											
4																											
5																											

STANDARD SIGN
R11-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-51.4

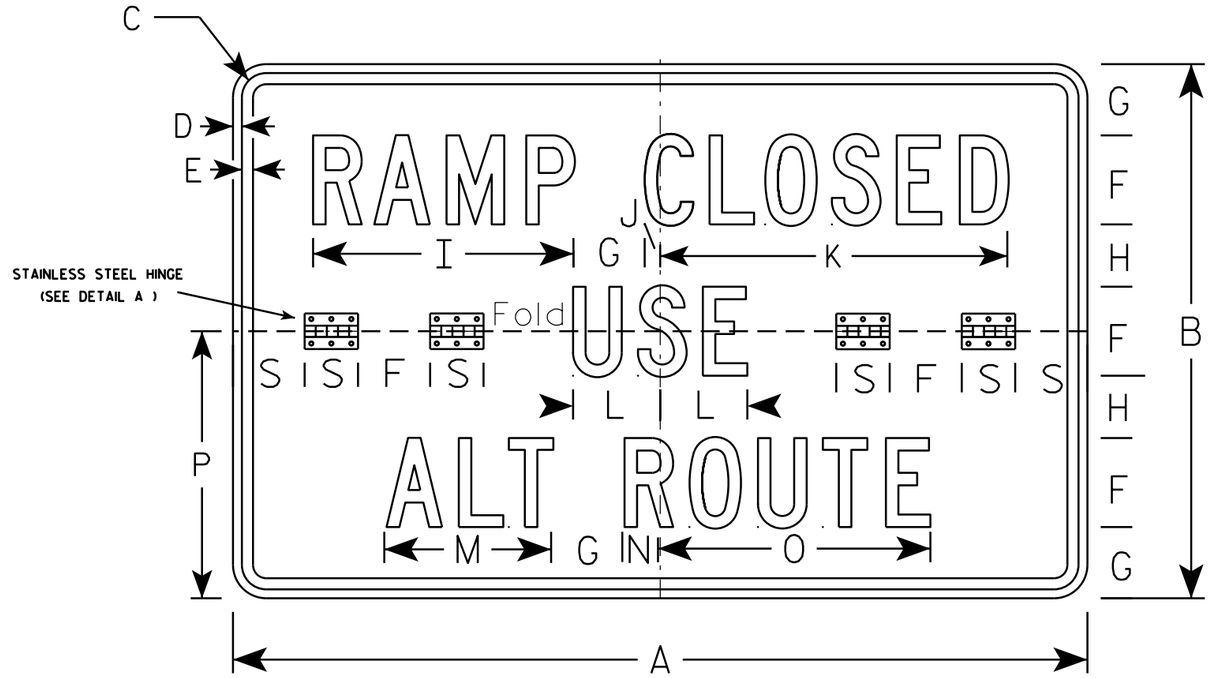
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 834	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R1151.DGN PLOT DATE : 01-APR-2011 14:07 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000

WISDOT/CADDS SHEET 42

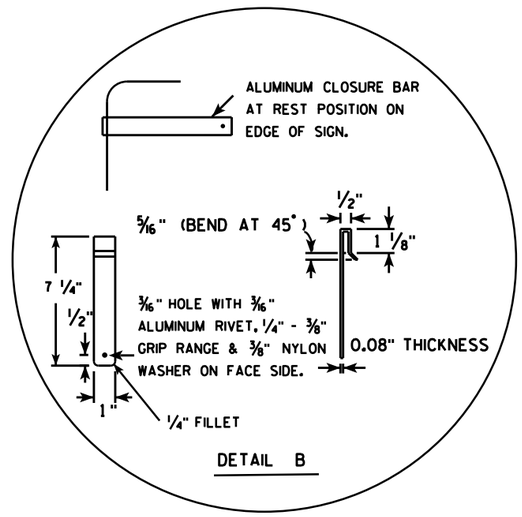
7

7



R11-54F

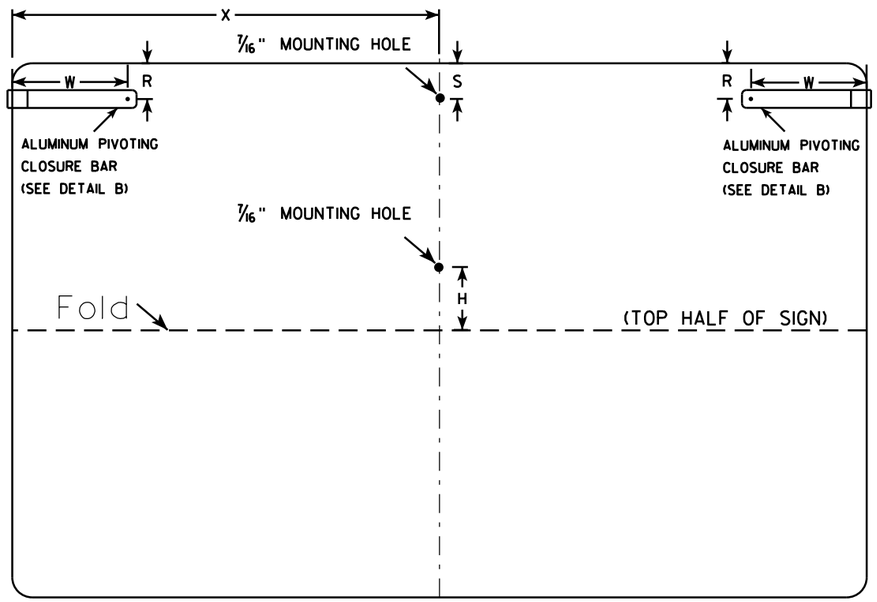
DETAIL A



DETAIL B

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - C
4. Sign Base Material shall be aluminum, corners and borders shall be rounded.
5. All hardware used on the folding sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.
6. Refer to plate A5-3A for sign blank layout.



(BACK VIEW)

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	5	4	3 1/2	14 5/8	7/8	19 1/2	4 7/8	9 3/8	2	15 1/4	15		2	3	2 5/8	1 1/4	11/16	6 1/2	24			10.0
2M	48	30	1 3/8	1/2	5/8	5	4	3 1/2	14 5/8	7/8	19 1/2	4 7/8	9 3/8	2	15 1/4	15		2	3	2 5/8	1 1/4	11/16	6 1/2	24			10.0
3																											
4																											
5																											

STANDARD SIGN
R11-54F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

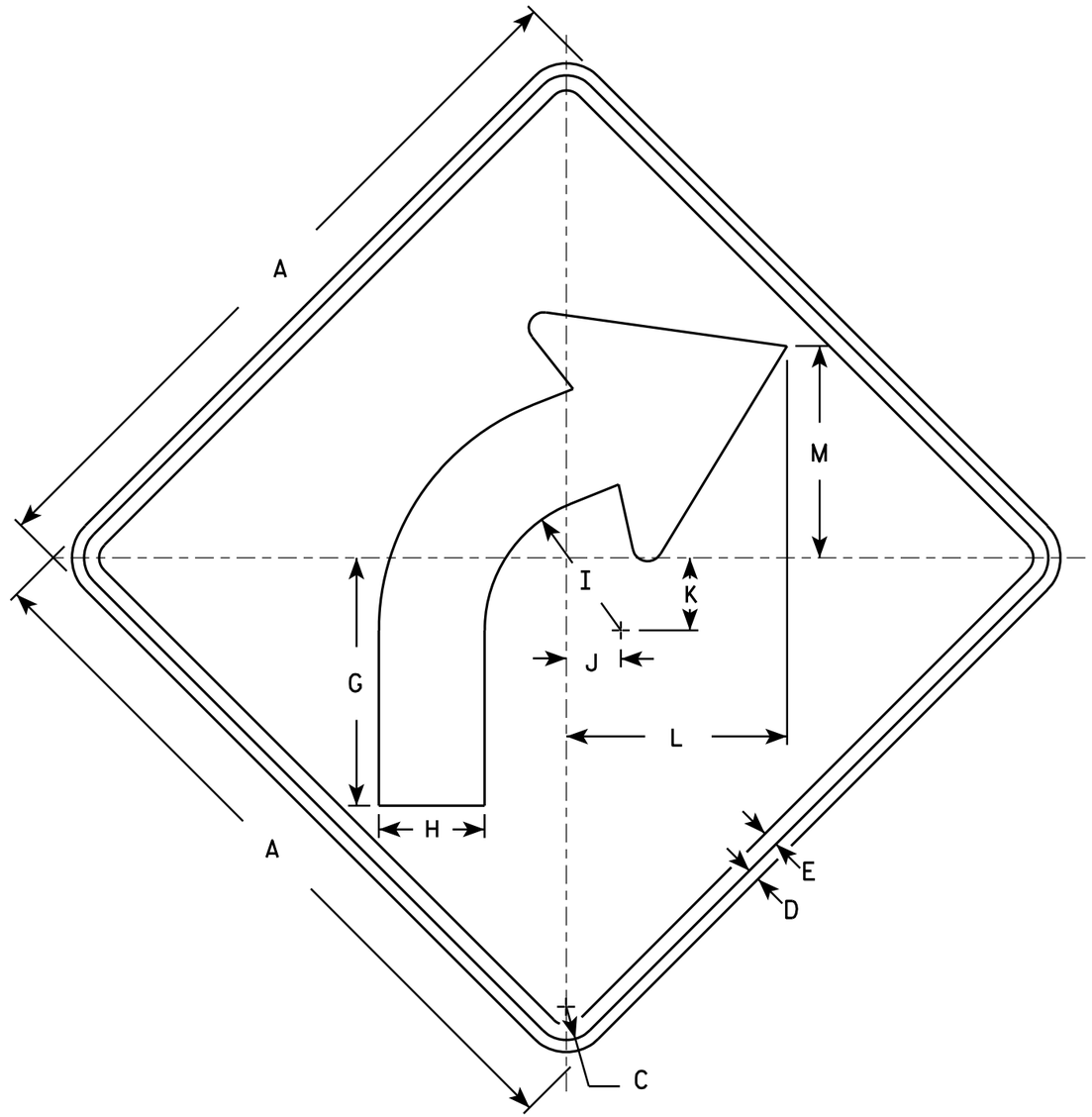
DATE 5/28/14 PLATE NO. R11-54F.3

835

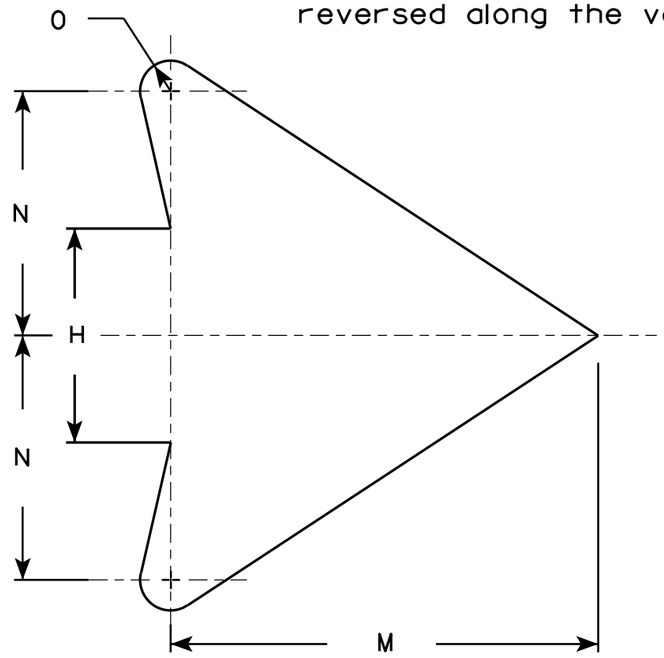
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

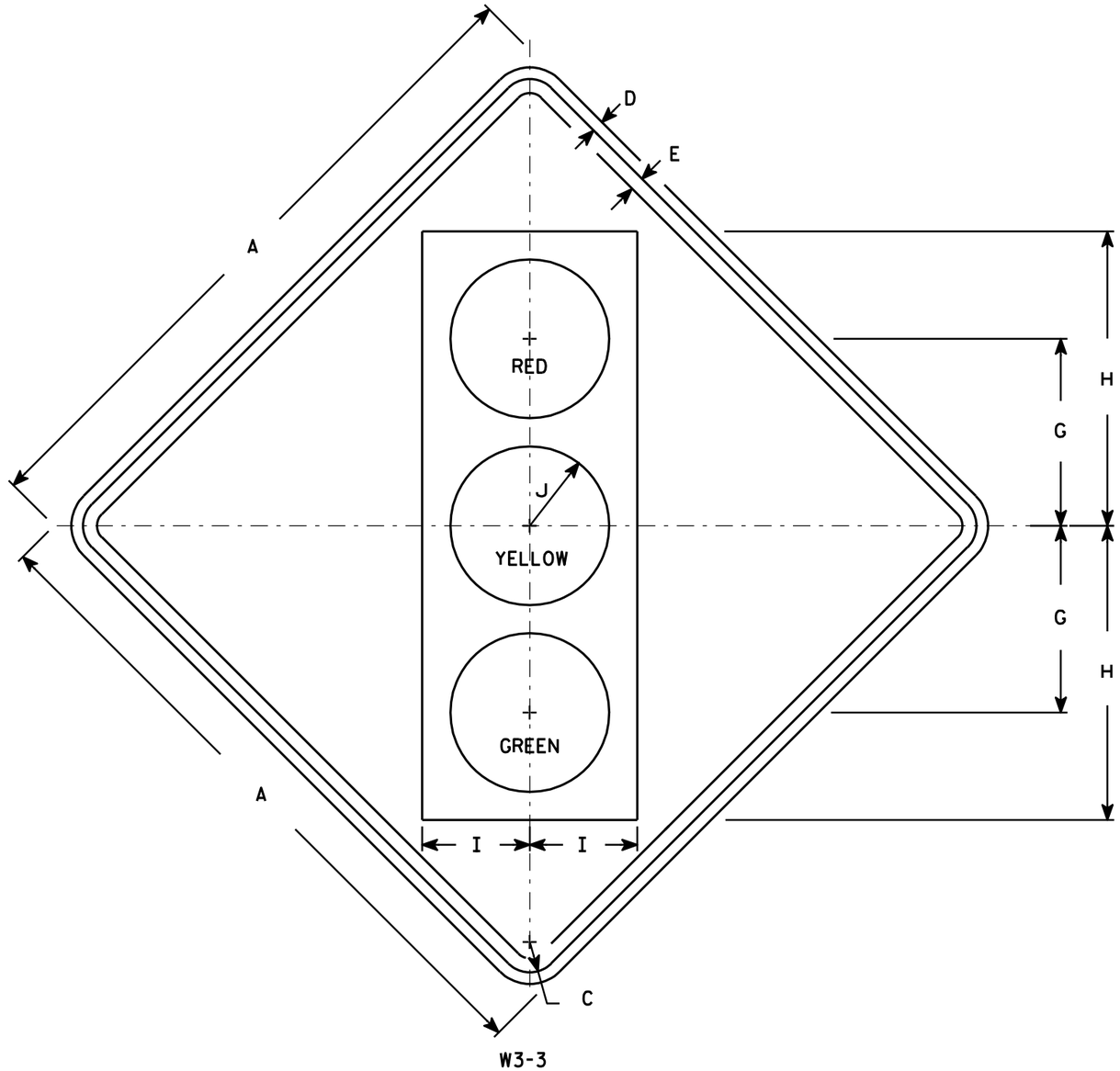
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 836	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - 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. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

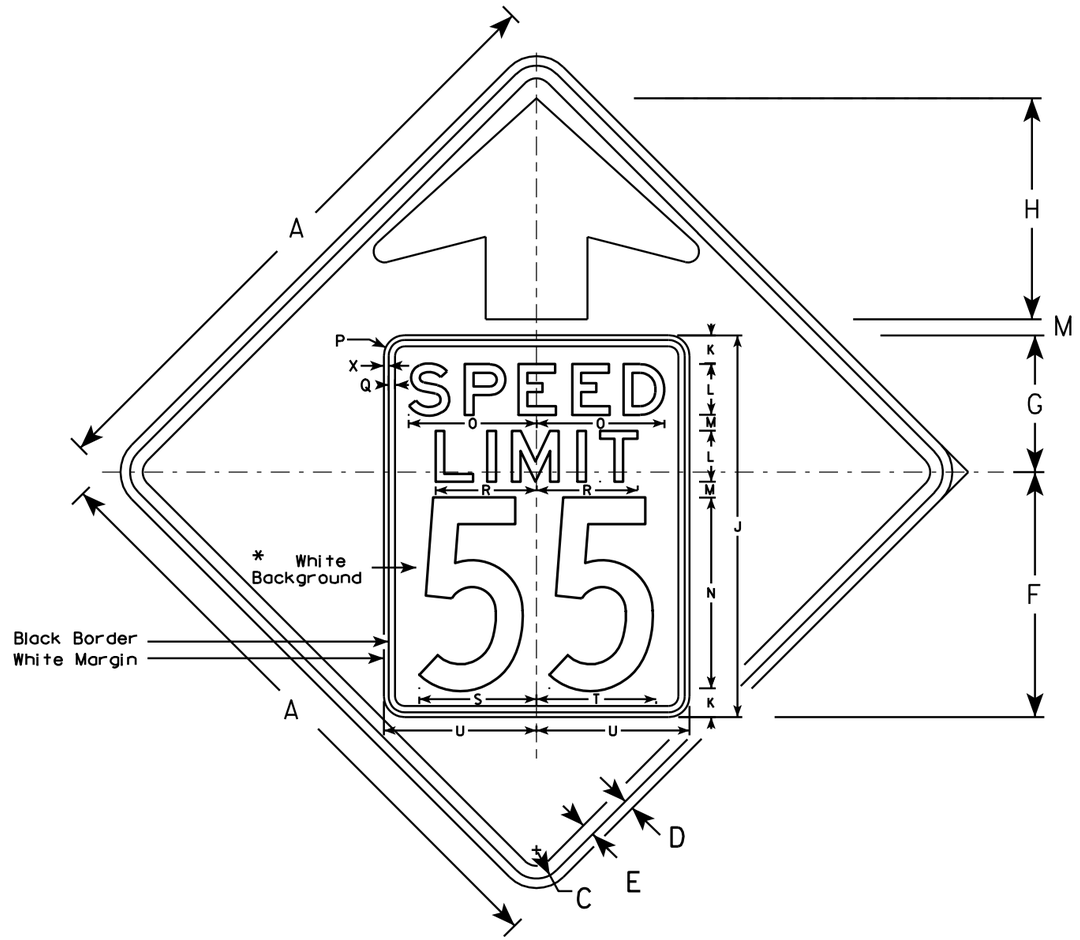
STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 837 | E

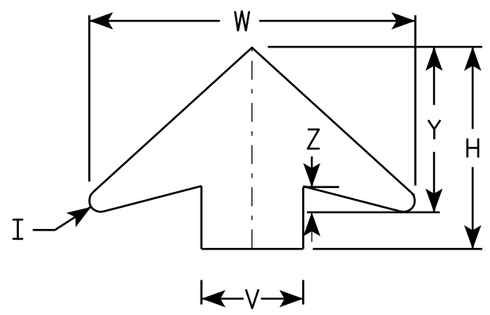


W3-5

NOTES

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

*Speed Limit Sign shall have a White Background



ARROW DETAIL

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

STANDARD SIGN
W3-5

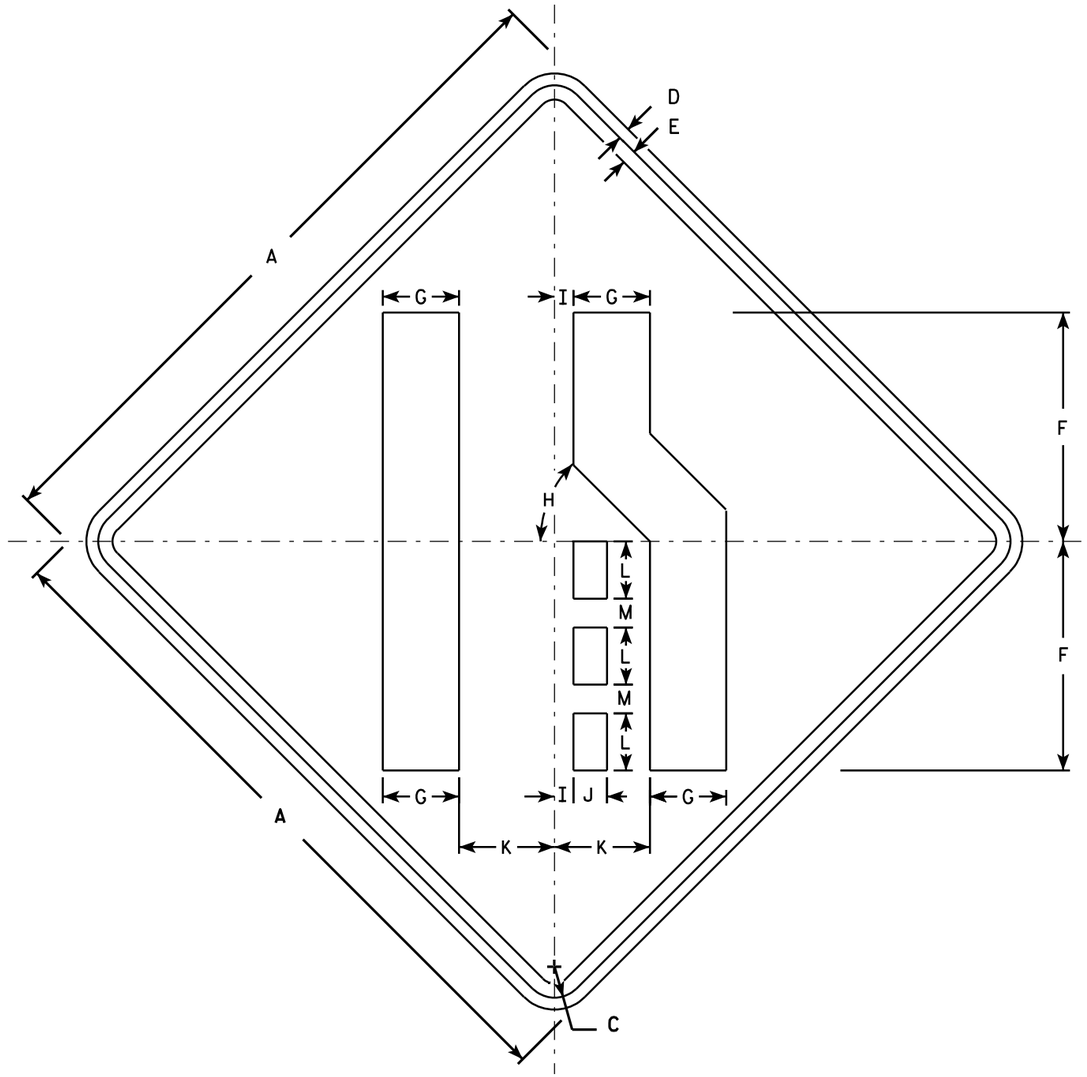
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 838 E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

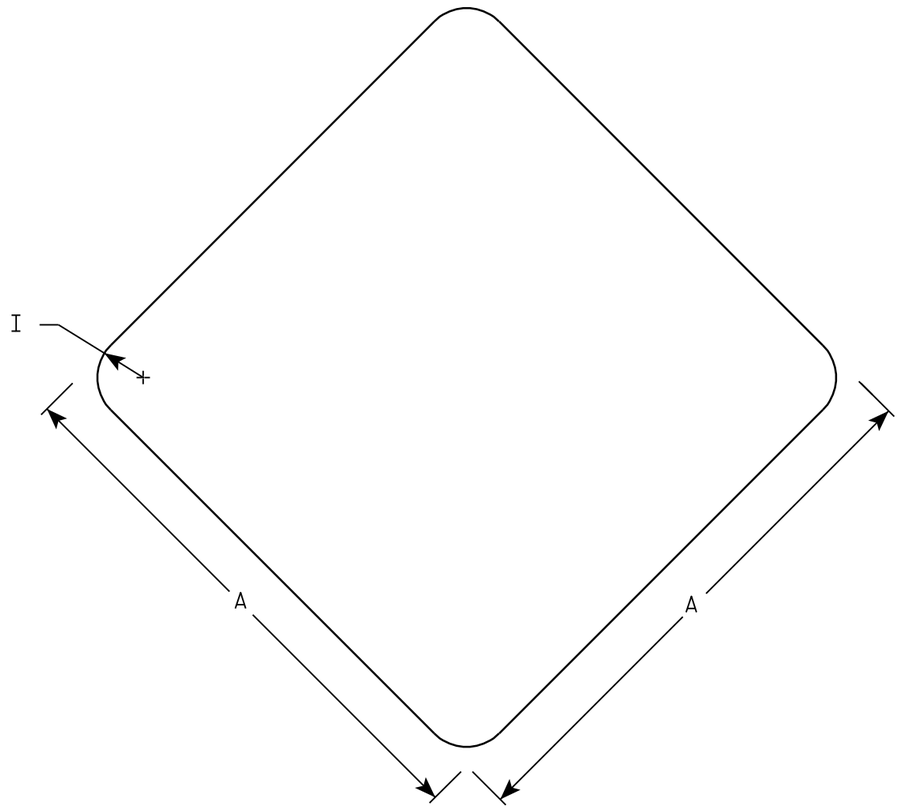
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 839 E



W5-54

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

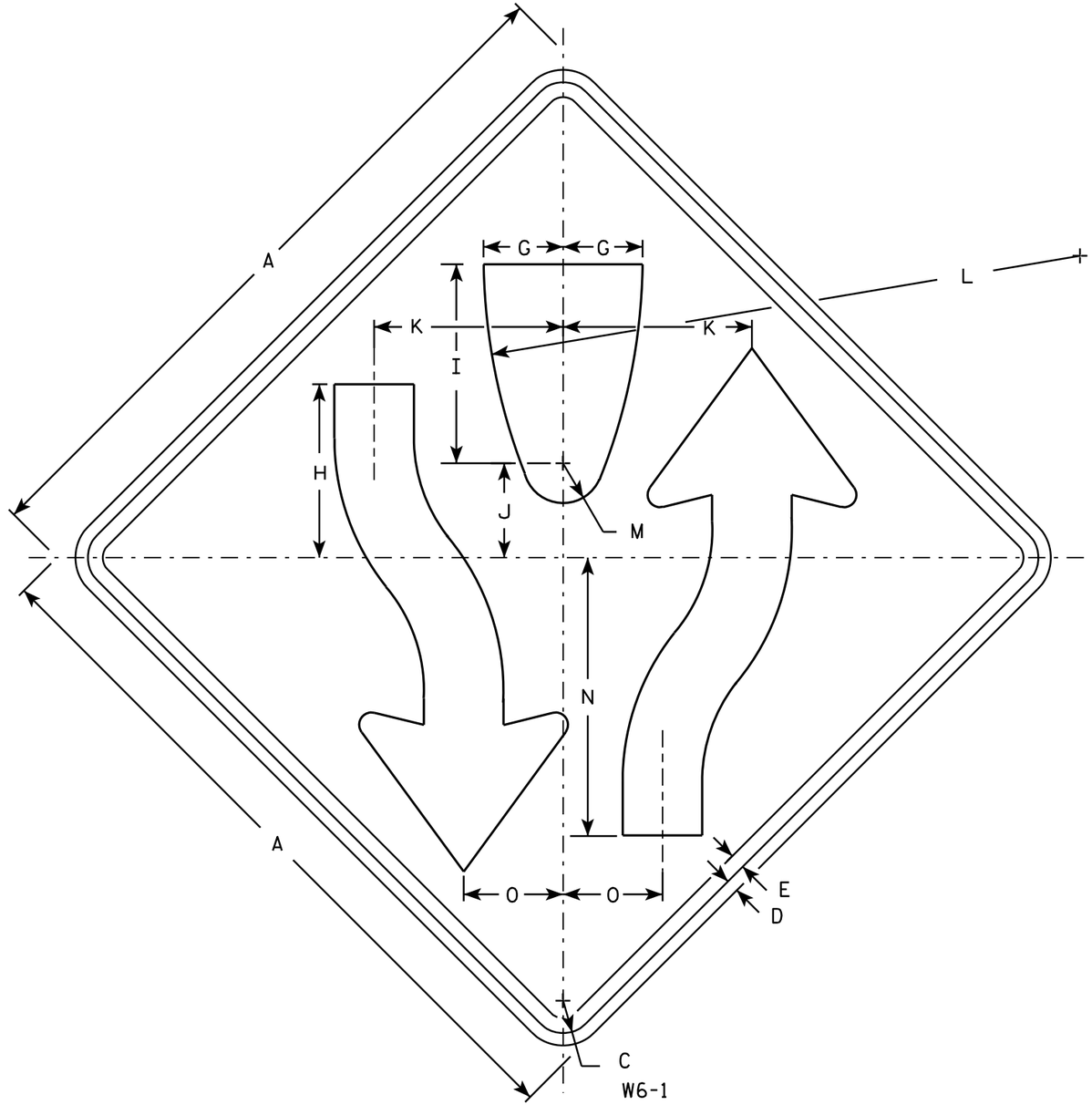
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

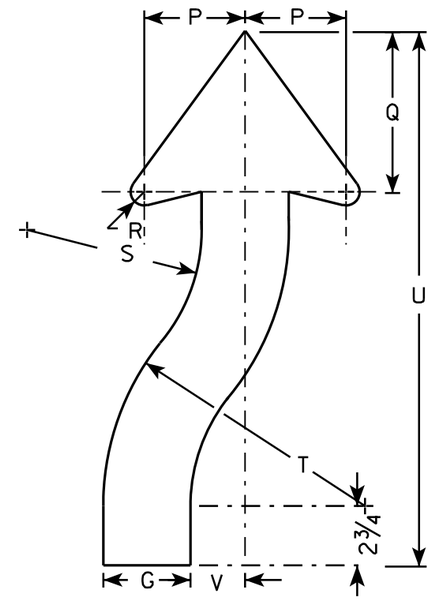
DATE 11/3/10 PLATE NO. W5-54.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 840 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W6-2 same as W6-1 but is rotated 180° when mounted.



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	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

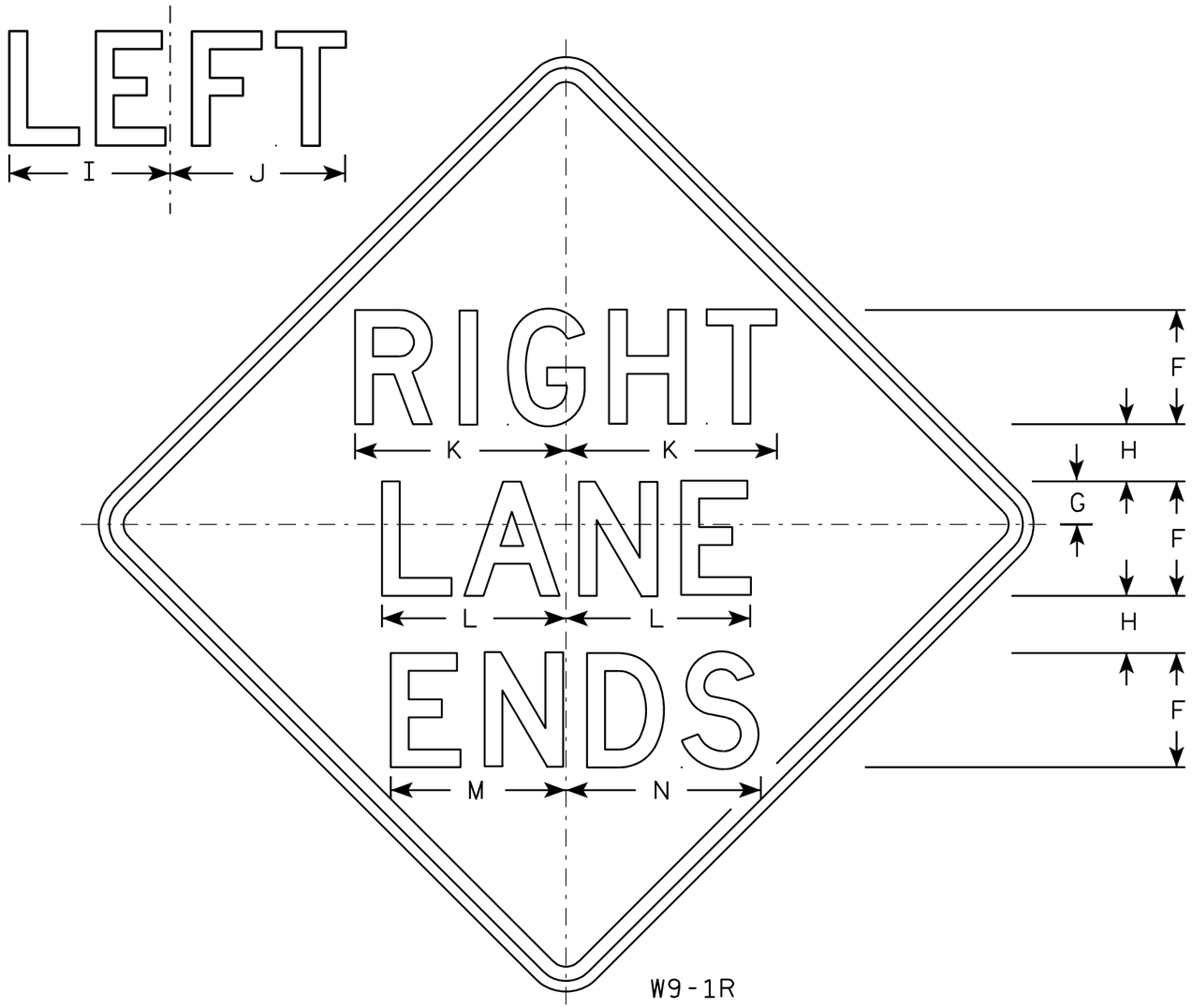
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 841	E

7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W61.DGN PLOT DATE : 12-MAR-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946657:1.000000
WISDOT/CADDS SHEET 42



W9-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. 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. W9-1L same as W9-1R except the word Left replaces Right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

STANDARD SIGN
W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

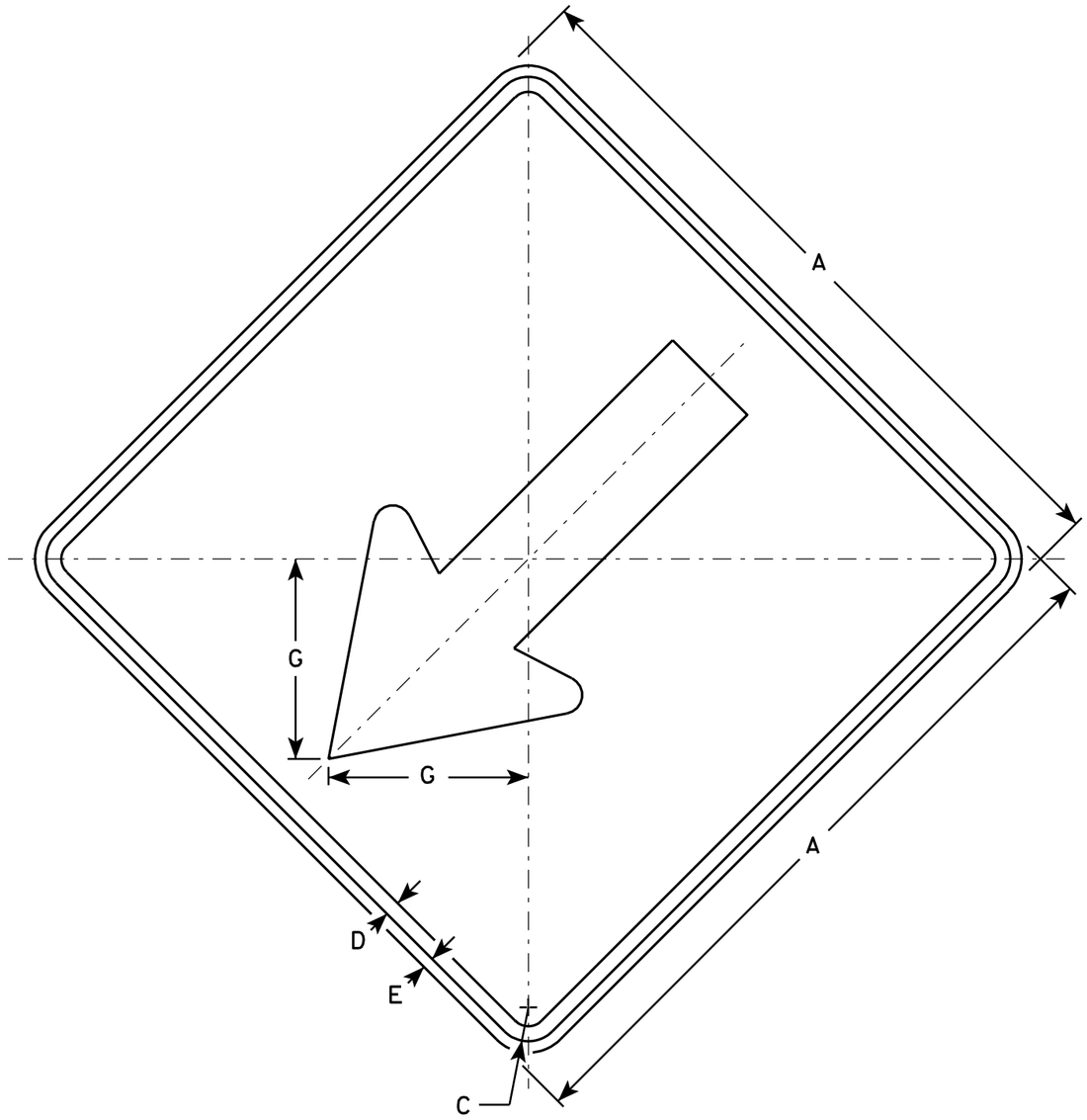
DATE 03/18/13 PLATE NO. W9-1.8

PROJECT NO:

SHEET NO: 842 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W91.DGN PLOT DATE : 18-MAR-2013 11:42 PLOT BY : mscsja

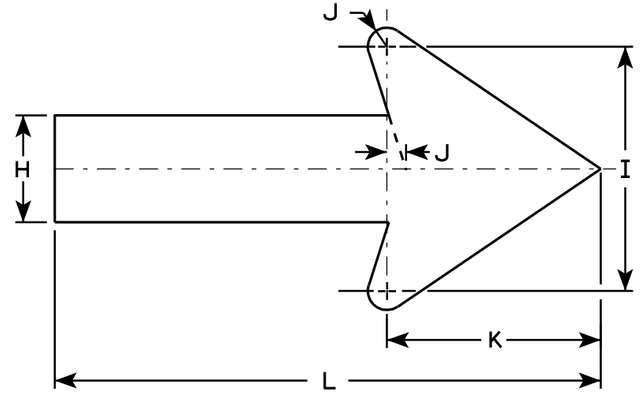
WISDOT/CADDS SHEET 42



W12-1

NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		6 5/8	3 1/2	8	5/8	7	18															4
2M	24		1 1/8	1/2	3/8		6 5/8	3 1/2	8	5/8	7	18															4
3	30		1 3/8	5/8	1/2		8 1/4	4 3/8	10	3/4	8 3/4	22 3/8															6.25
4	36		1 3/4	3/4	5/8		10 3/8	5 1/2	12 1/2	1	11	27 7/8															9.0
5	48		2 1/4	3/4	1		12 1/2	6 5/8	15	1 1/4	13 1/4	33 1/2															16

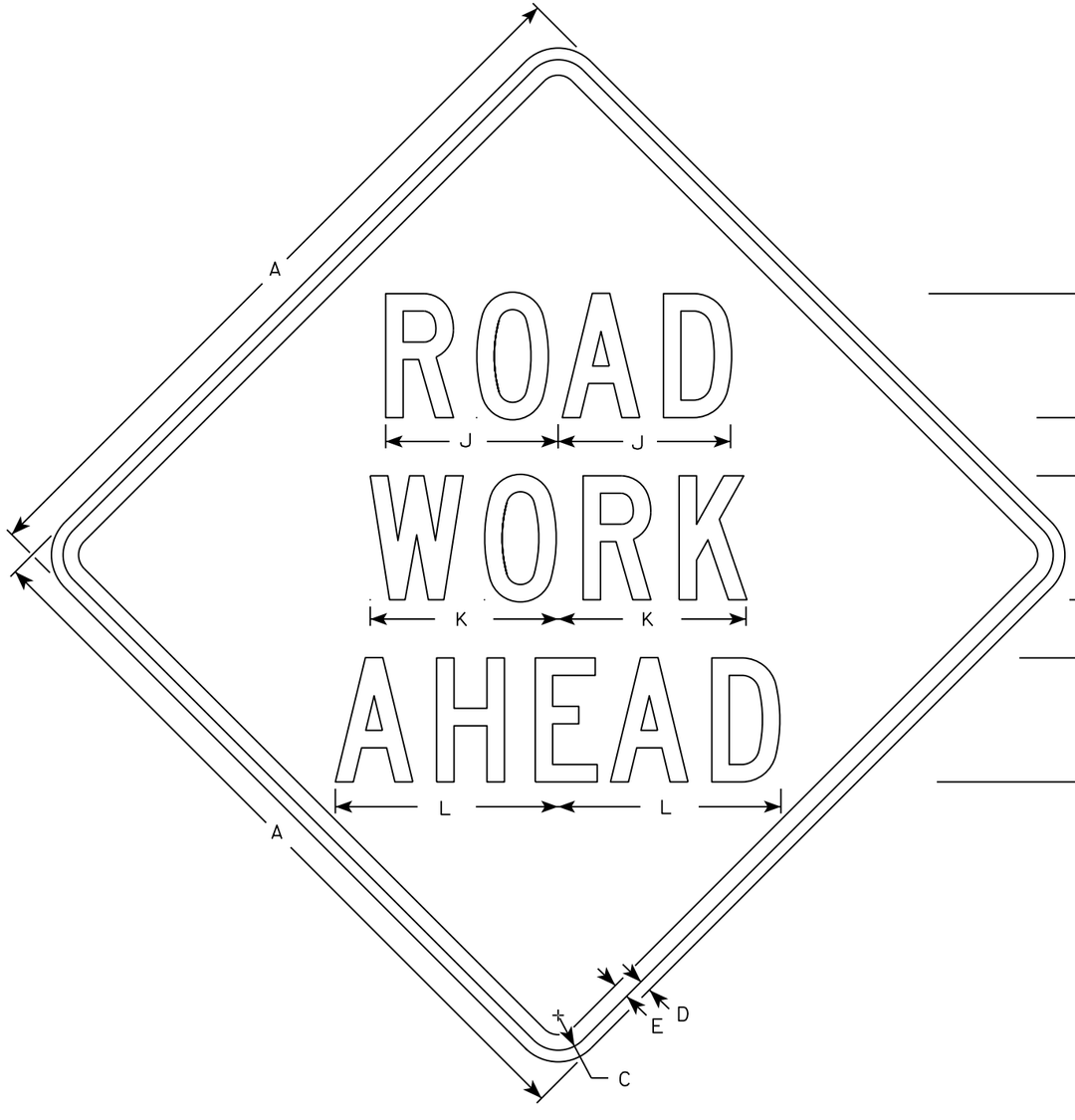
STANDARD SIGN
W12-1

WISCONSIN DEPT OF TRANSPORTATION

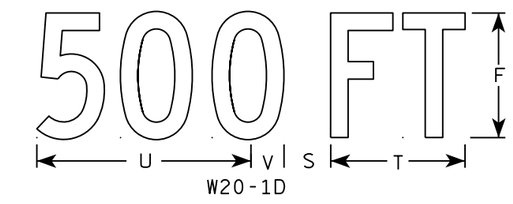
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1.12

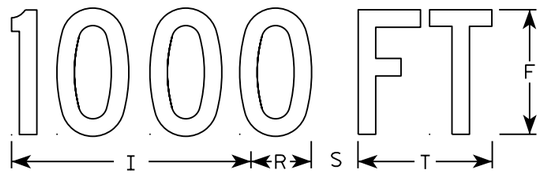
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 843	E



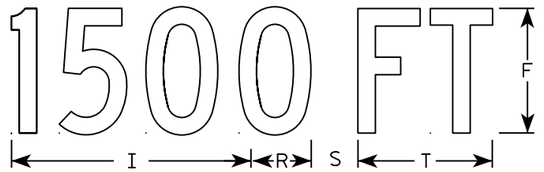
W20-1A



W20-1D



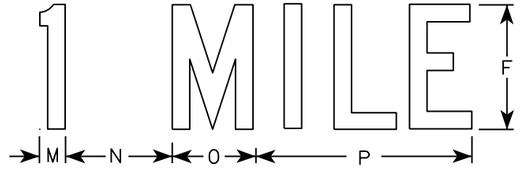
W20-1C



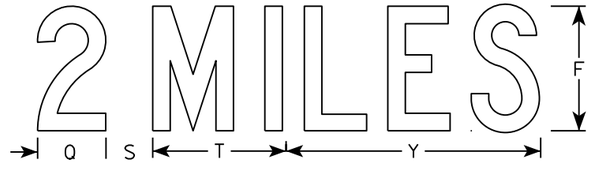
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

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

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

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

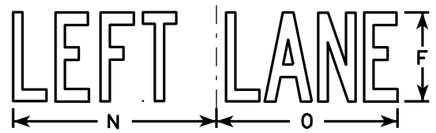
PROJECT NO:

SHEET NO: E

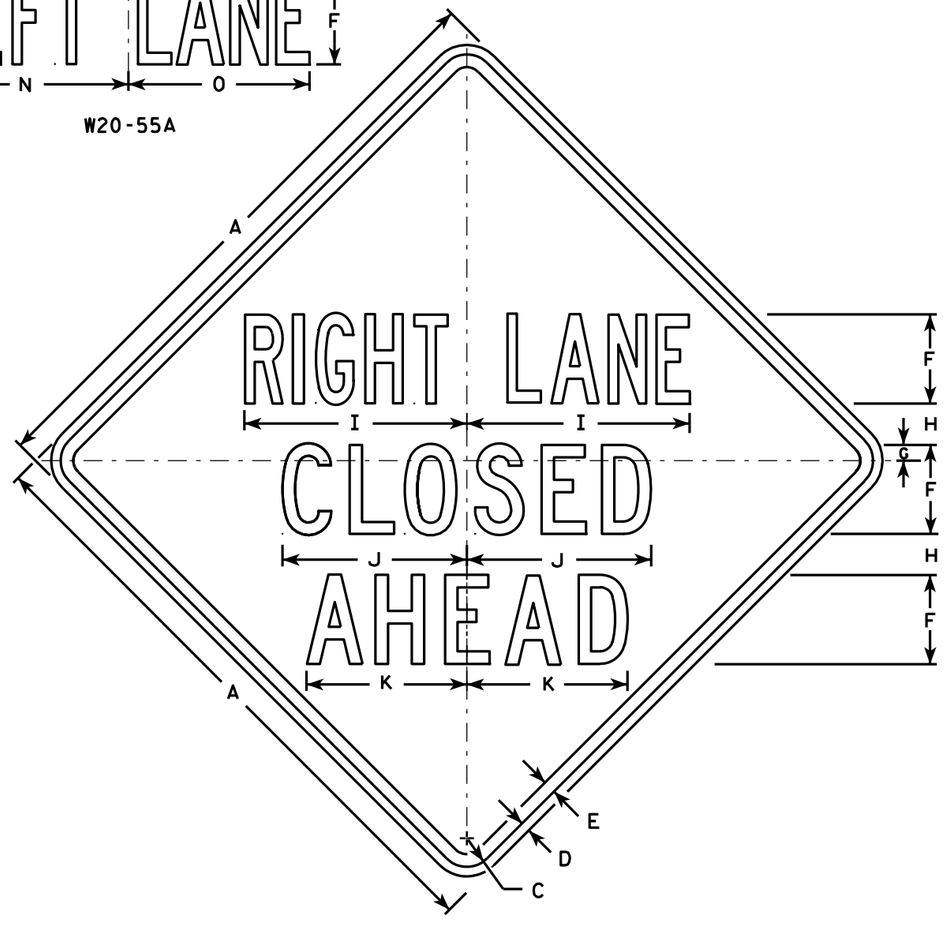
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



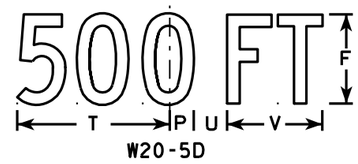
W20-56A



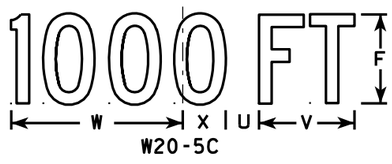
W20-55A



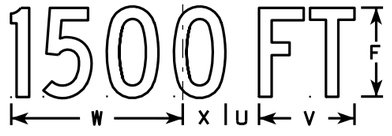
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is 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	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

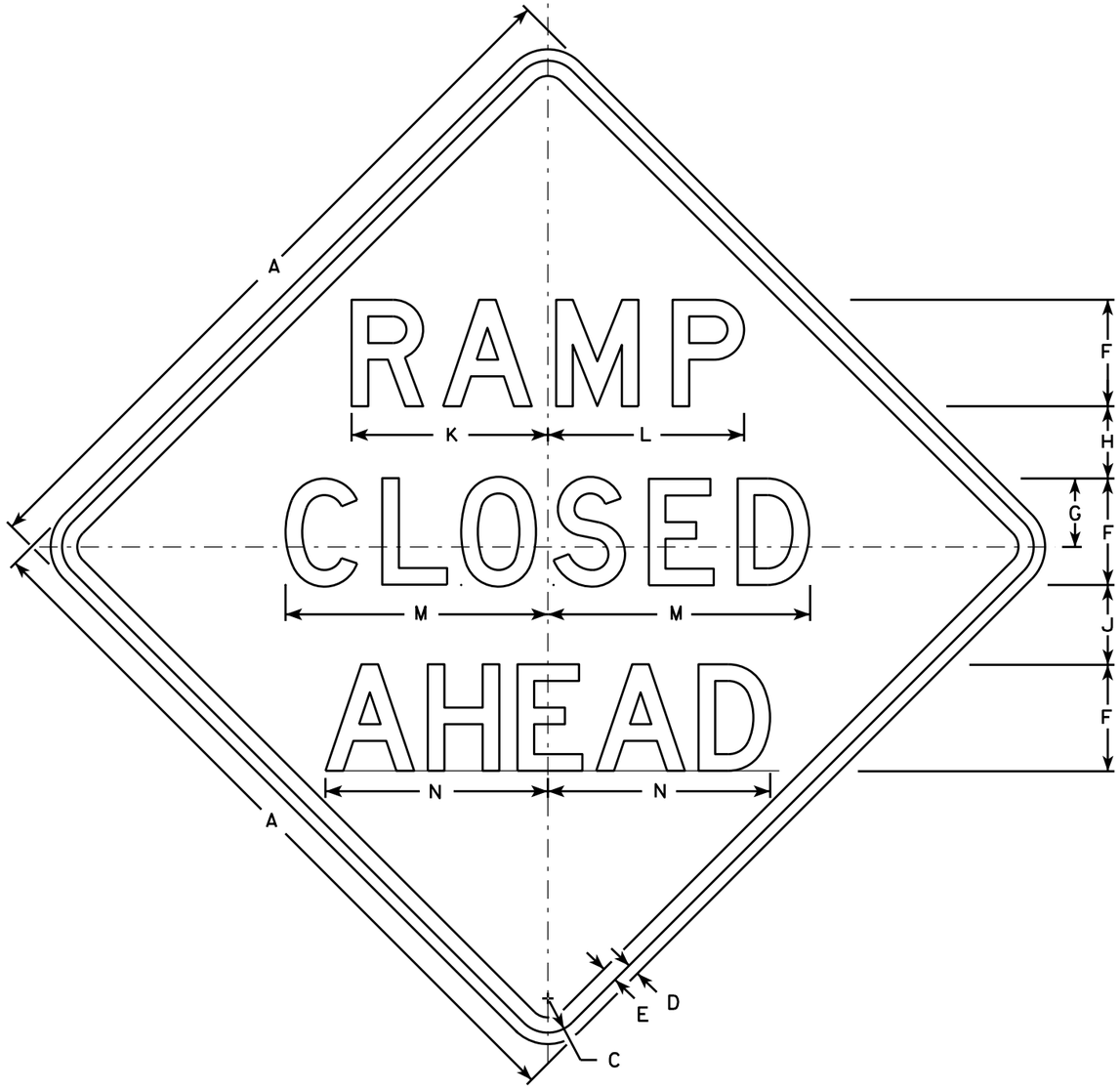
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

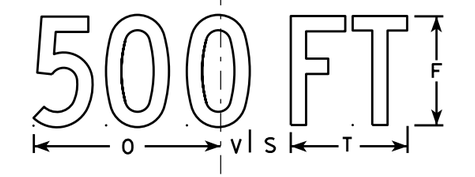
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 845	E

7

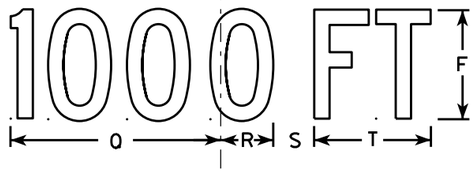
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



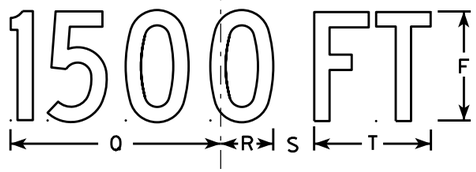
W20-53A



W20-53D



W20-53C



W20-53B



W20-53G



W20-53F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. 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		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	9 1/4	9 1/4	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		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	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		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	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		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	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		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	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		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	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
W20-53A,B,C,D,F,G

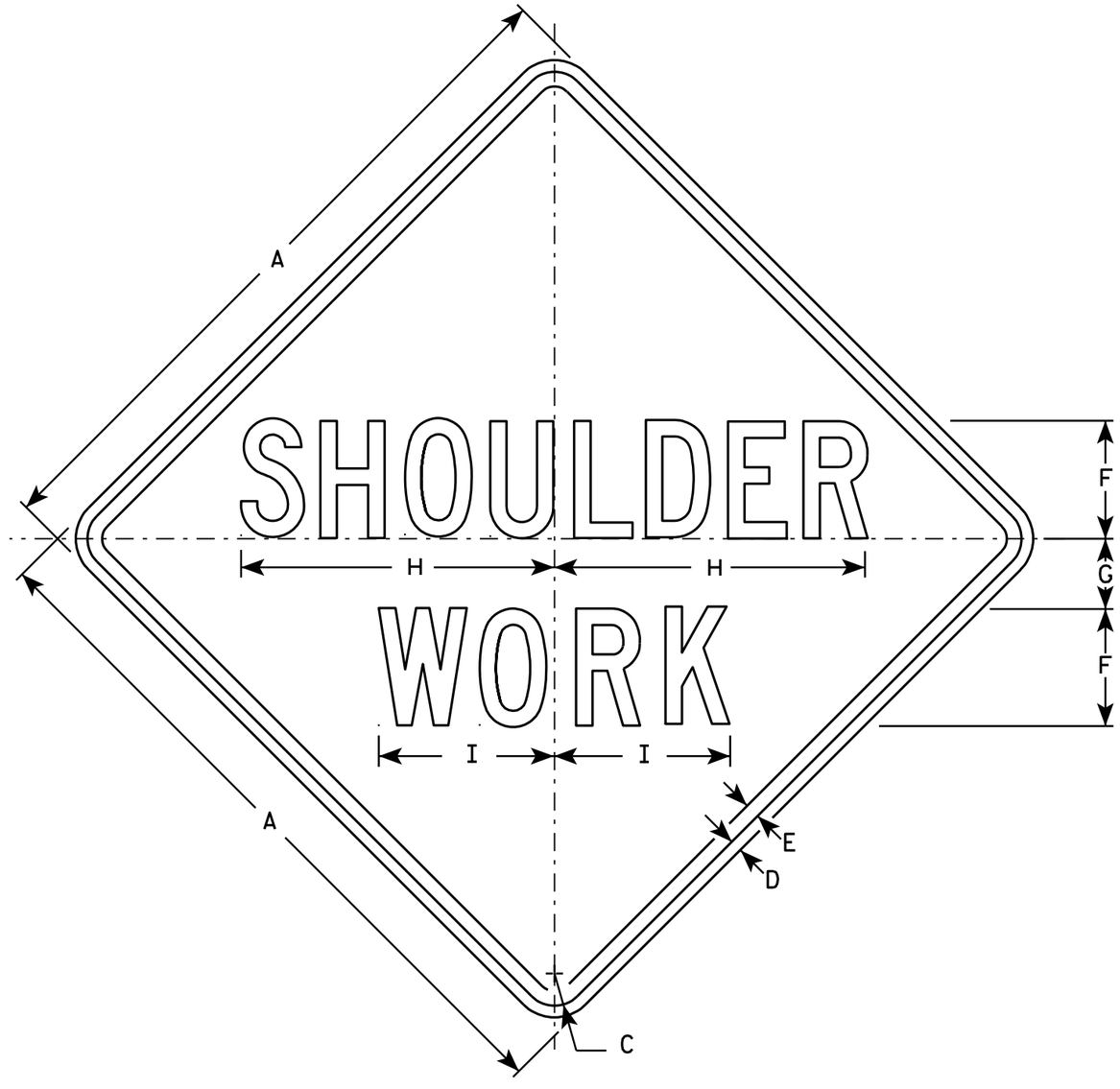
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/27/15 PLATE NO. W20-53.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W2053.DGN PLOT DATE : 27-MAY-2015 19:40 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.729210:1.000000
WISDOT/CADDS SHEET 42



W21-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
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	24		1 1/8	3/8	1/2	4	2 1/2	10 3/4	6																		4.0
2S	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3 1/2	16	9																		9.0
4	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
5	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0

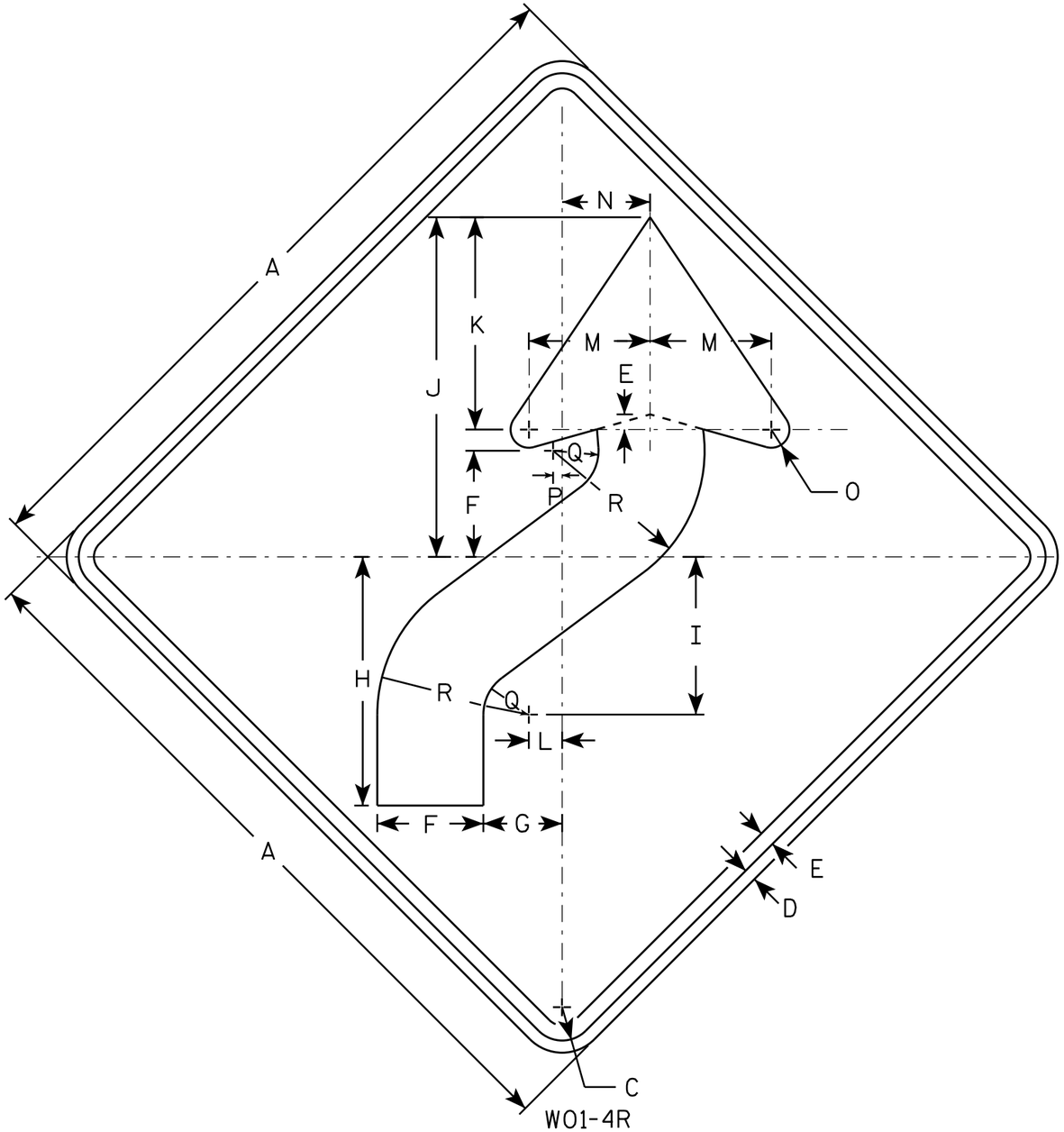
STANDARD SIGN
W21-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-5.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 847	E



W01-4R

NOTES

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

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

STANDARD SIGN
W01-4

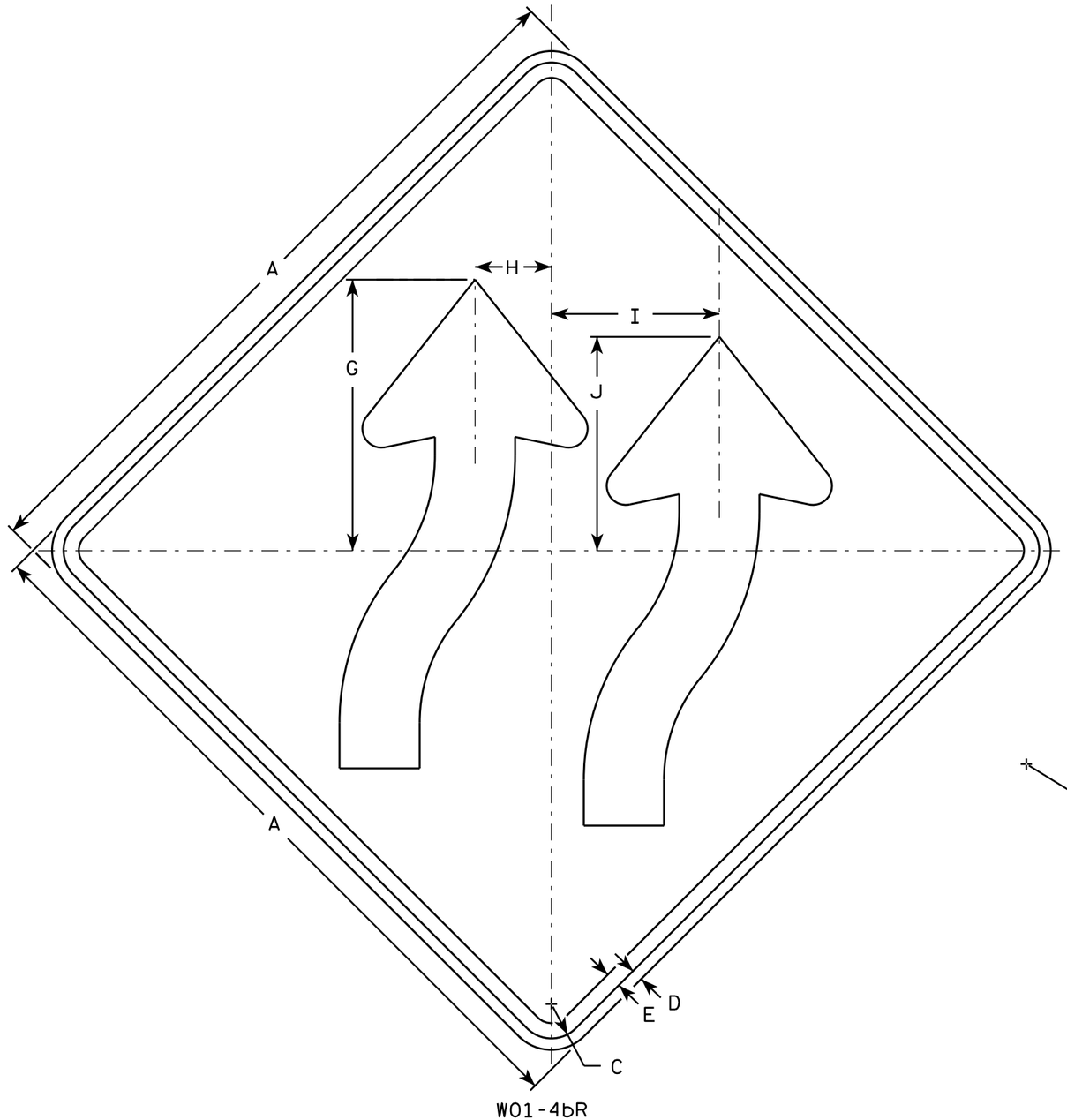
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

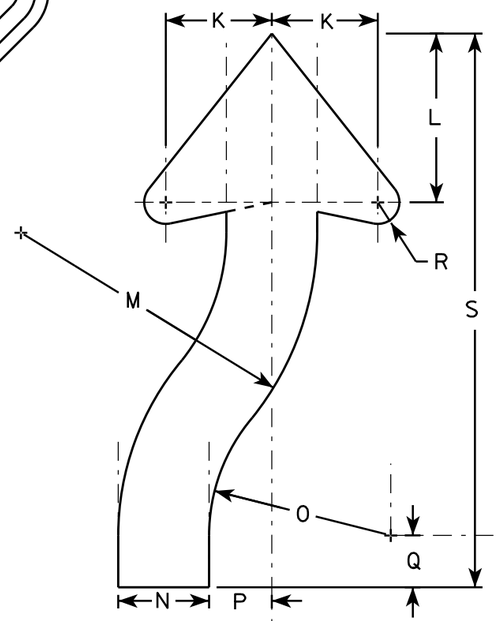
DATE 11/18/13 PLATE NO W01-4.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000 WISDOT/CADDS SHEET 42



W01-4bR



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4bL is the same as W014-bR exept arrows are reversed along the vertical centerline

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		13 3/8	3 3/4	8 1/4	10 1/2	4 5/8	7 3/8	12 7/8	3 7/8	7 7/8	2 3/4	2 1/4	7/8	24								9.0
2S	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
2M	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
3	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
4	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
5	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0

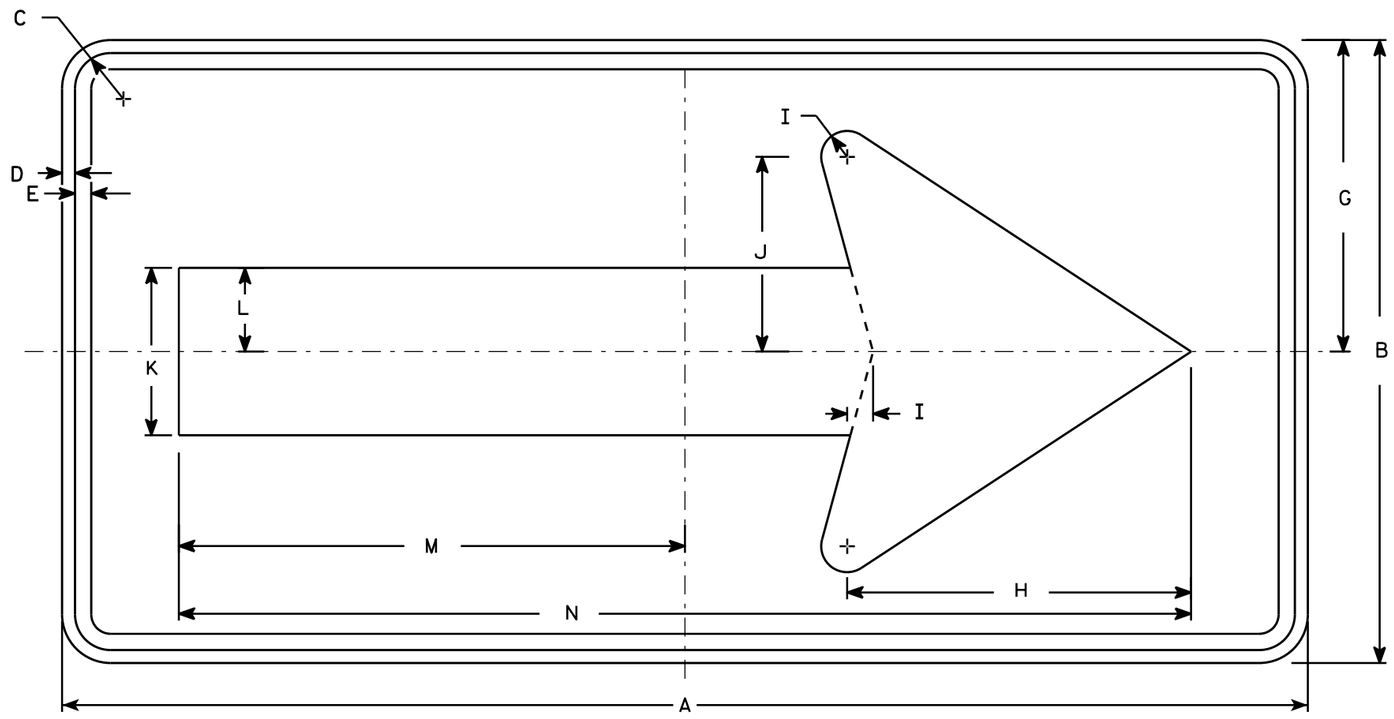
STANDARD SIGN
W01-4b

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-4b.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W01-6

NOTES

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

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

STANDARD SIGN
W01-6

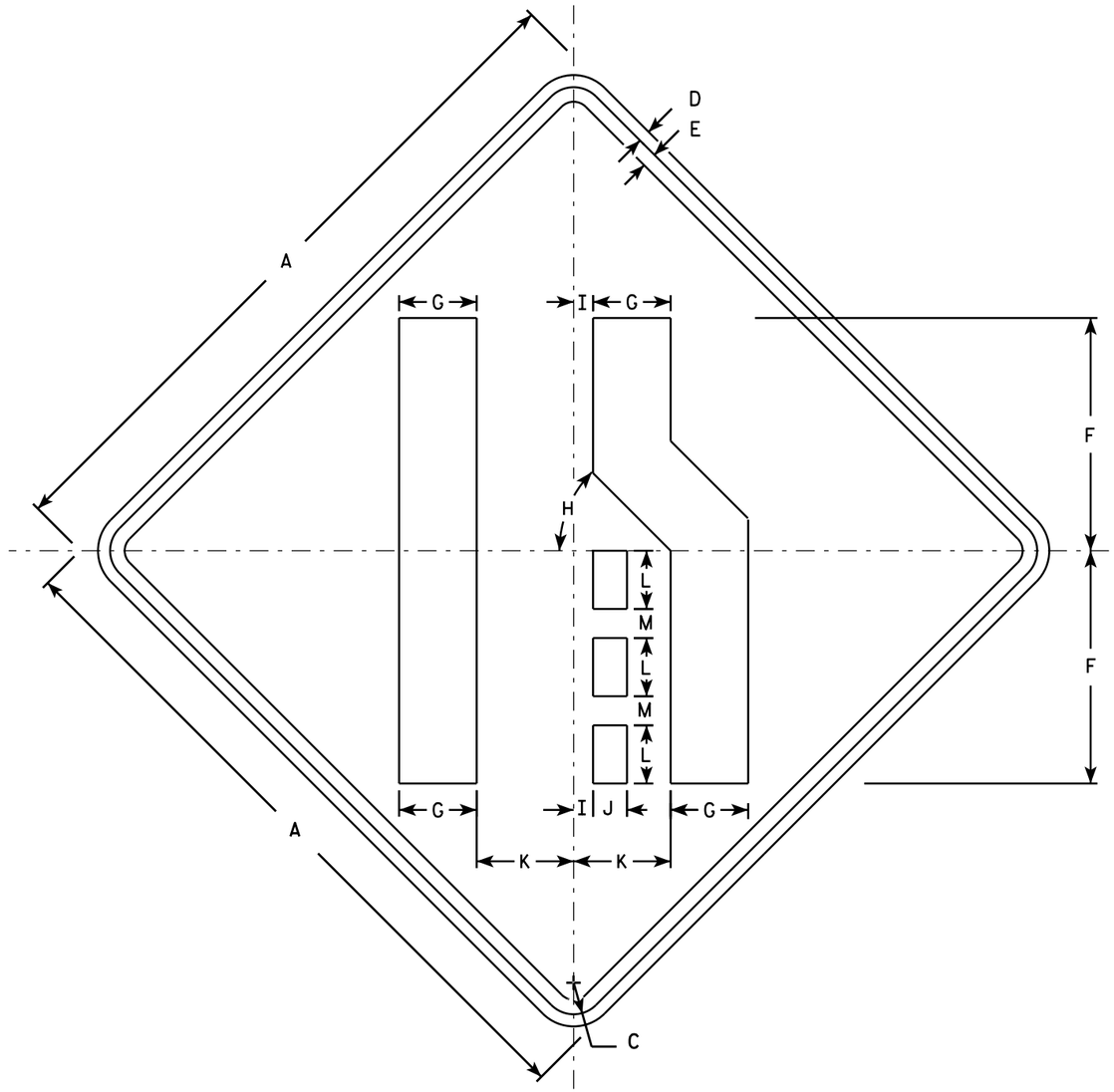
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

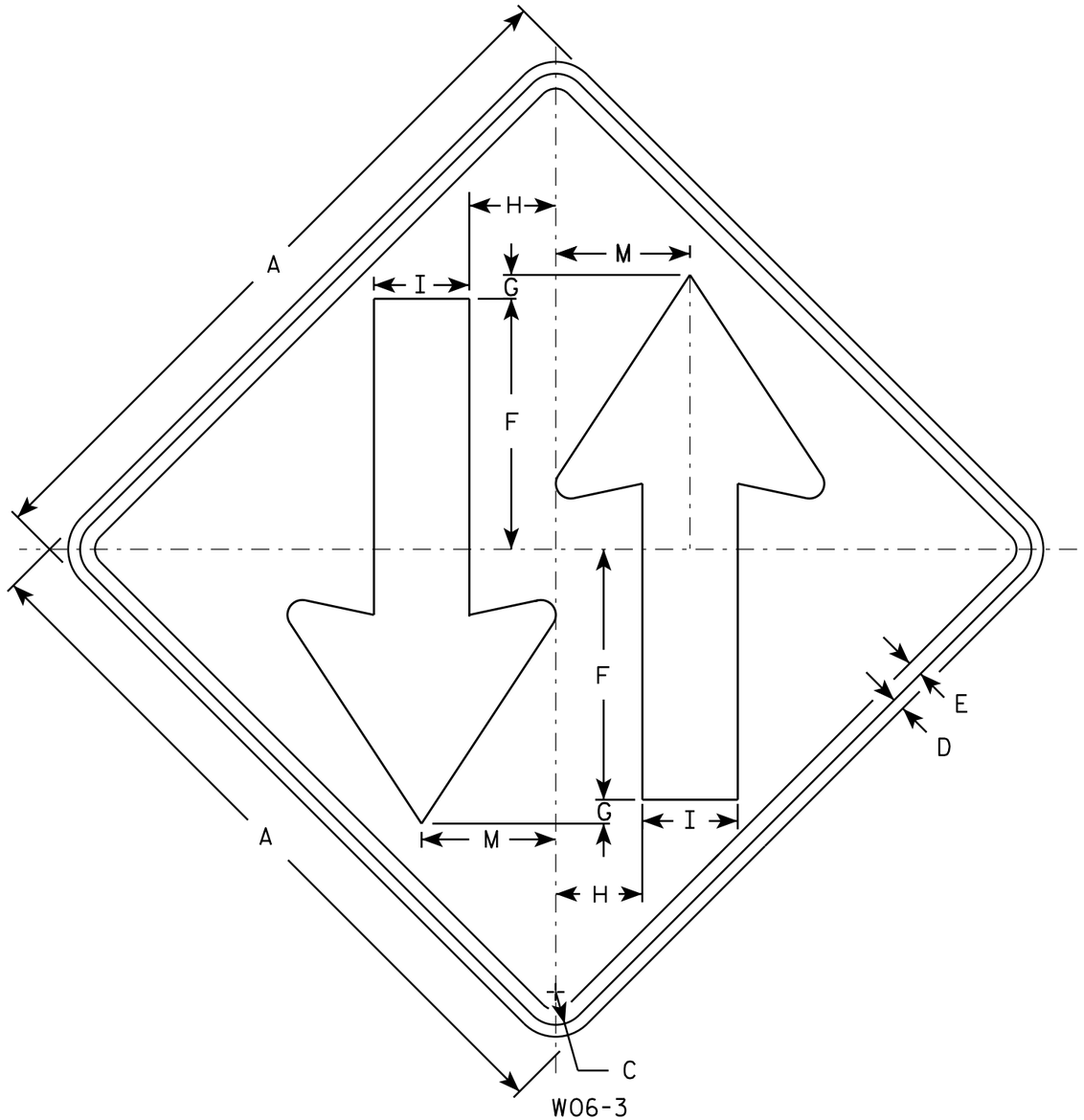
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 851 W04-2.1

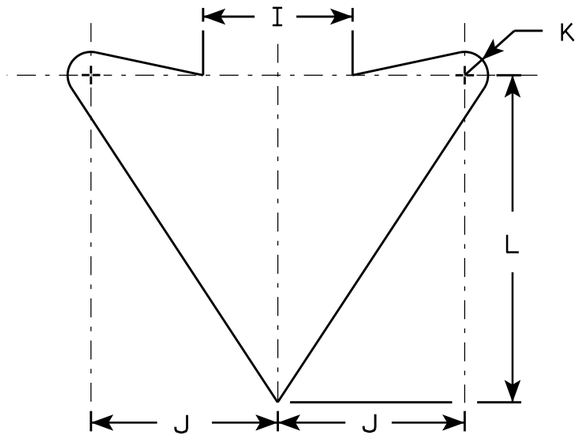
PROJECT NO:

SHEET NO: E



NOTES

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



ARROW DETAIL

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

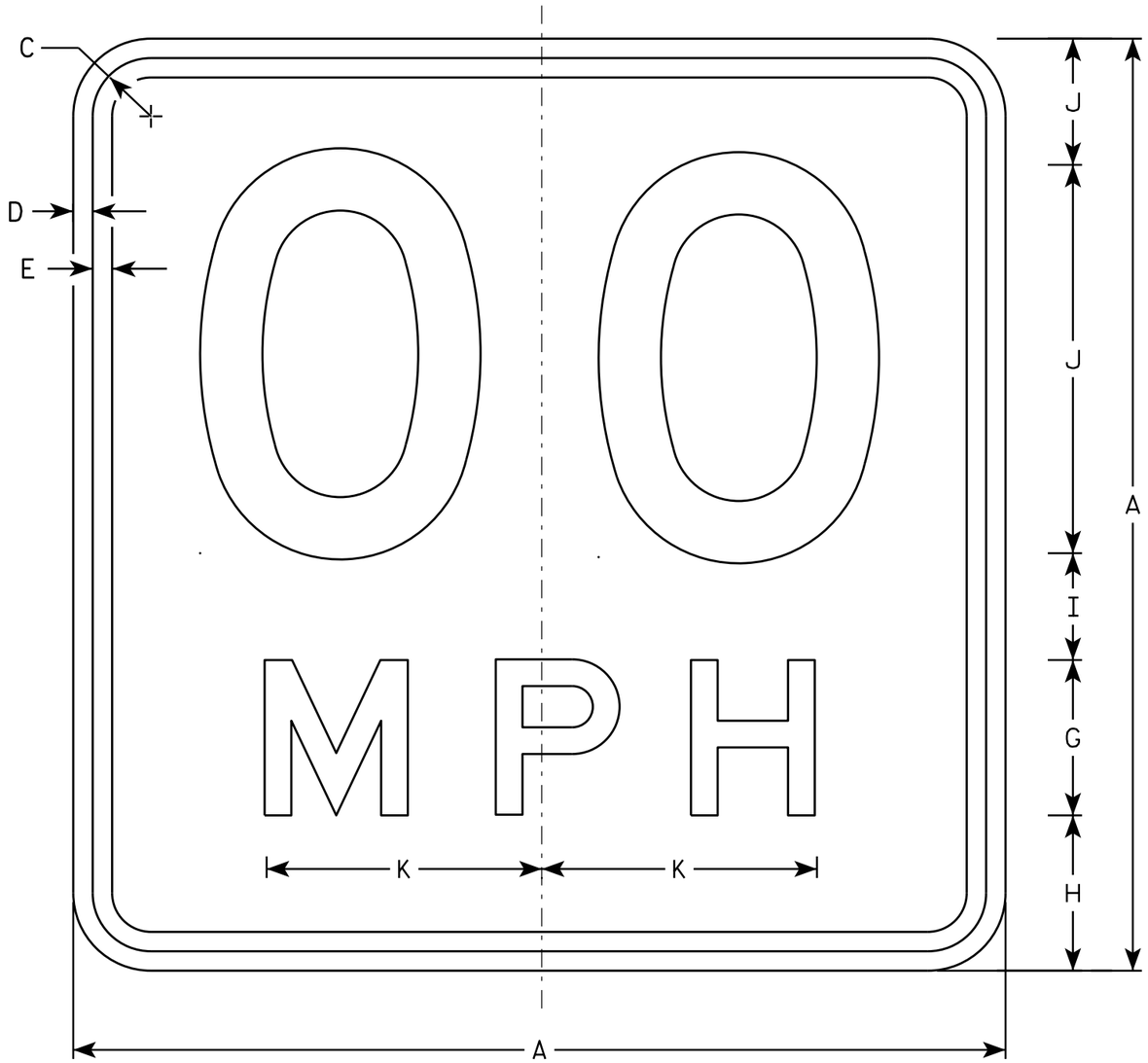
STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 852 W06-3.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



W013-1

NOTES

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

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

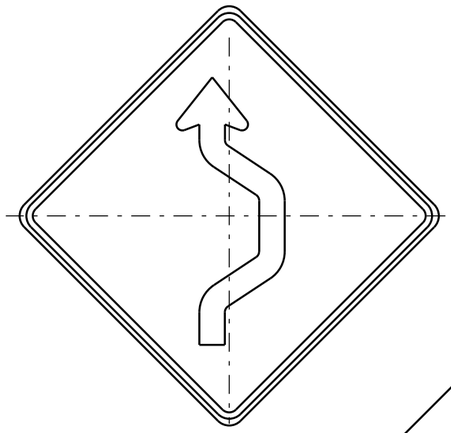
STANDARD SIGN
W013-1

WISCONSIN DEPT OF TRANSPORTATION

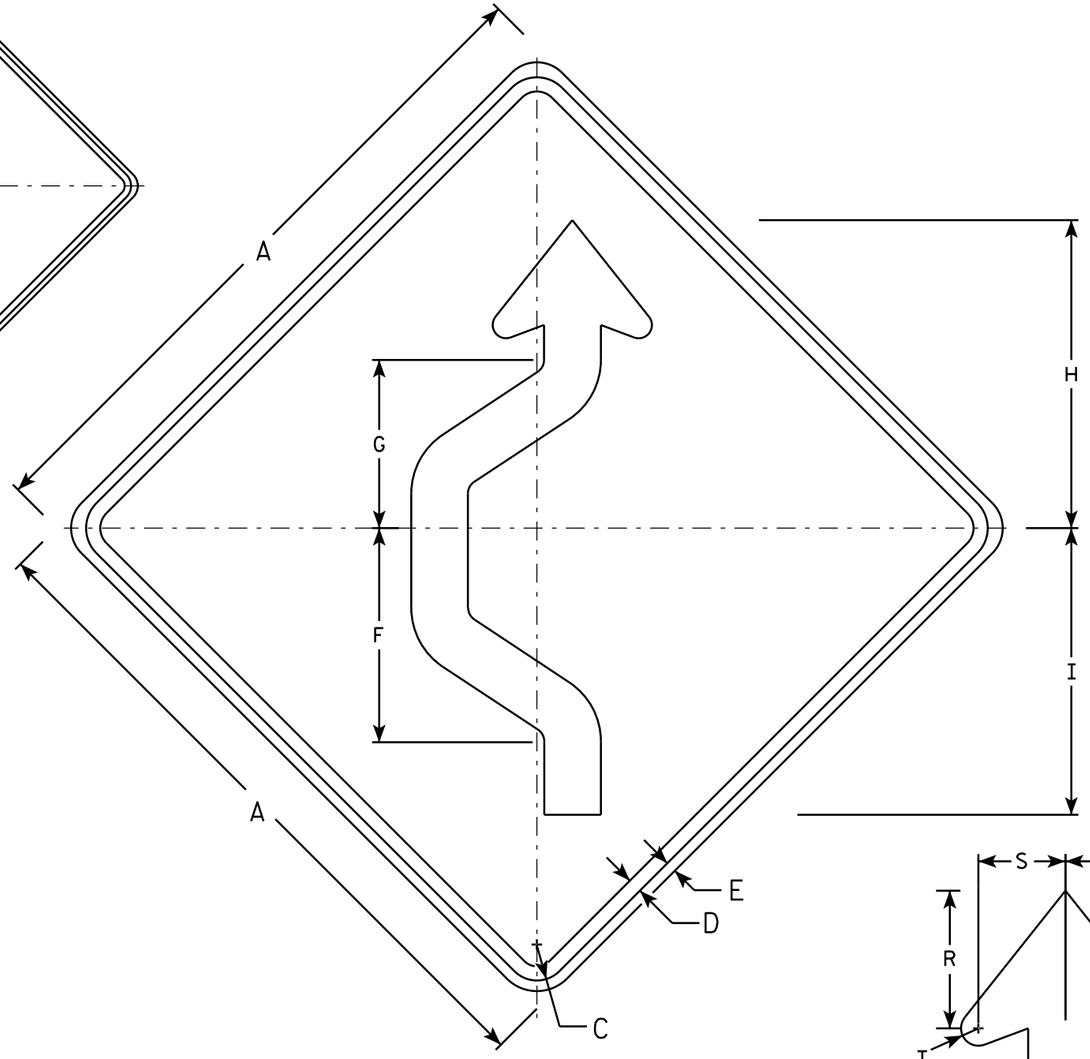
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/21/13 PLATE 853 W013-1.1

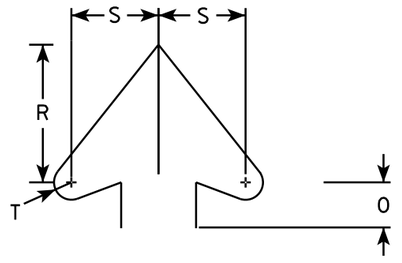
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W024-1R



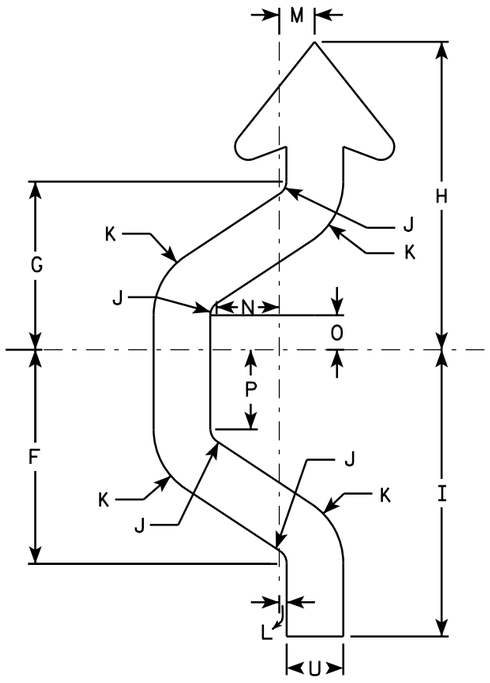
W024-1L



Arrowhead Detail

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W024-1R is the same as W024-1L except reversed along the vertical centerline.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	5/8	1/2	11 3/8	8 7/8	16 3/8	15 1/4	3/4	3 3/4	3/8	2	3 3/8	1 7/8	4 1/4		5 1/2	3 1/2	5/8	3						9
2S	48		2 1/4	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16
2M	48		2 1/4	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16
3	48		2 1/4	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16
4	48		2 1/4	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16
5	48		2 1/4	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16

STANDARD SIGN
W024-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/25/2013 PLATE NO. W024-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W0241.DGN PLOT DATE : 25-SEP-2013 13:08 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 10.702132:1.000000 WISDOT/CADDS SHEET 42

Division 1 TEMPORARY WIDENING AND CROSSOVERS

STATION		Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
				Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
265+07	AH	26507.00	0.00	75.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
265+50		26550.00	43.00	73.23	0.00	0.00	118.04	0.00	0.00	118.04	0.00	0.00	118.04
266+00		26600.00	50.00	79.90	0.00	0.00	141.79	0.00	0.00	259.83	0.00	0.00	259.83
266+50		26650.00	50.00	80.51	2.52	0.00	148.53	2.33	0.00	408.36	2.33	0.00	406.02
267+00		26700.00	50.00	76.22	0.50	0.00	145.12	2.80	0.00	553.48	5.13	0.00	548.35
267+50		26750.00	50.00	66.46	3.52	0.00	132.11	3.72	0.00	685.59	8.85	0.00	676.74
268+00		26800.00	50.00	63.30	2.11	0.00	120.15	5.21	0.00	805.74	14.06	0.00	791.67
268+50		26850.00	50.00	52.68	3.52	0.00	107.39	5.21	0.00	913.13	19.28	0.00	893.85
269+00		26900.00	50.00	43.72	2.78	0.00	89.26	5.83	0.00	1002.39	25.11	0.00	977.27
269+50		26950.00	50.00	26.43	3.20	0.00	64.95	5.54	0.00	1067.34	30.65	0.00	1036.69
270+00		27000.00	50.00	26.65	3.19	0.00	49.15	5.92	0.00	1116.49	36.56	0.00	1079.92
270+50		27050.00	50.00	29.19	0.77	0.00	51.70	3.67	0.00	1168.19	40.23	0.00	1127.96
271+00		27100.00	50.00	22.97	0.00	0.00	48.30	0.71	0.00	1216.49	40.94	0.00	1175.54
271+50		27150.00	50.00	23.07	0.00	0.00	42.63	0.00	0.00	1259.12	40.94	0.00	1218.17
272+00		27200.00	50.00	22.76	0.00	0.00	42.44	0.00	0.00	1301.55	40.94	0.00	1260.61
272+50		27250.00	50.00	22.90	0.00	0.00	42.28	0.00	0.00	1343.83	40.94	0.00	1302.89
273+00		27300.00	50.00	25.81	0.33	0.00	45.10	0.31	0.00	1388.93	41.25	0.00	1347.68
273+50		27350.00	50.00	24.74	0.70	0.00	46.81	0.95	0.00	1435.74	42.20	0.00	1393.53
274+00		27400.00	50.00	18.63	1.08	0.00	40.16	1.65	0.00	1475.89	43.85	0.00	1432.04
274+50		27450.00	50.00	23.49	3.98	0.00	39.00	4.69	0.00	1514.89	48.54	0.00	1466.36
275+00		27500.00	50.00	24.99	2.96	0.00	44.89	6.43	0.00	1559.78	54.96	0.00	1504.82
275+50		27550.00	50.00	22.53	4.14	0.00	44.00	6.57	0.00	1603.78	61.54	0.00	1542.25
276+00		27600.00	50.00	18.85	3.29	0.00	38.31	6.88	0.00	1642.10	68.42	0.00	1573.68
276+50		27650.00	50.00	14.00	2.32	0.00	30.42	5.19	0.00	1672.52	73.61	0.00	1598.90
277+00		27700.00	50.00	8.90	3.90	0.00	21.20	5.76	0.00	1693.72	79.37	0.00	1614.35
277+50		27750.00	50.00	6.28	1.15	0.00	14.06	4.68	0.00	1707.77	84.05	0.00	1623.73
278+00		27800.00	50.00	5.42	0.31	0.00	10.83	1.35	0.00	1718.61	85.40	0.00	1633.21
278+12	BK	27812.00	12.00	3.31	0.06	0.00	1.94	0.08	0.00	1720.55	85.48	0.00	1635.07
278+84	AH	27884.00	0.00	3.20	0.01	0.00	0.00	0.00	0.00	1720.55	85.48	0.00	1635.07
279+00		27900.00	16.00	6.23	0.61	0.00	2.79	0.18	0.00	1723.34	85.66	0.00	1637.68
279+50		27950.00	50.00	11.55	0.53	0.00	16.46	1.06	0.00	1739.80	86.72	0.00	1653.09
280+00		28000.00	50.00	16.95	0.72	0.00	26.39	1.16	0.00	1766.19	87.88	0.00	1678.32
280+50		28050.00	50.00	21.30	0.41	0.00	35.42	1.05	0.00	1801.61	88.92	0.00	1712.69
281+00		28100.00	50.00	21.54	0.13	0.00	39.67	0.50	0.00	1841.28	89.42	0.00	1751.85
281+50		28150.00	50.00	21.06	0.12	0.00	39.44	0.23	0.00	1880.72	89.65	0.00	1791.07
282+00		28200.00	50.00	21.91	0.00	0.00	39.79	0.11	0.00	1920.51	89.77	0.00	1830.74
282+50		28250.00	50.00	22.17	17.50	0.00	40.81	16.20	0.00	1961.32	105.97	0.00	1855.35
283+00		28300.00	50.00	20.17	21.00	0.00	39.20	35.65	0.00	2000.53	141.62	0.00	1858.91
283+50		28350.00	50.00	12.79	6.90	0.00	30.52	25.83	0.00	2031.05	167.45	0.00	1863.59
284+00		28400.00	50.00	10.83	7.84	0.00	21.87	13.65	0.00	2052.92	181.10	0.00	1871.82
284+50		28450.00	50.00	9.79	8.28	0.00	19.09	14.93	0.00	2072.01	196.03	0.00	1875.98

(CONTINUED ON NEXT SHEET)

(CONTINUED)

Division 1 TEMPORARY WIDENING AND CROSSOVERS

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
285+00		28500.00	50.00	9.82	7.67	0.00	18.16	14.77	0.00	2090.17	210.79	0.00	1879.37
285+50		28550.00	50.00	8.55	10.73	0.00	17.01	17.04	0.00	2107.18	227.83	0.00	1879.34
286+00		28600.00	50.00	9.43	12.61	0.00	16.65	21.61	0.00	2123.82	249.44	0.00	1874.38
286+50		28650.00	50.00	15.40	9.11	0.00	22.99	20.11	0.00	2146.81	269.55	0.00	1877.26
286+77	BK	28677.00	27.00	9.26	0.00	0.00	12.33	4.56	0.00	2159.14	274.11	0.00	1885.04
288+23	AH	28823.00	0.00	3.05	1.24	0.00	0.00	0.00	0.00	2159.14	274.11	0.00	1885.04
288+50		28850.00	27.00	9.75	2.16	0.00	6.40	1.70	0.00	2165.54	275.81	0.00	1889.74
289+00		28900.00	50.00	14.55	7.69	0.00	22.50	9.12	0.00	2188.04	284.93	0.00	1903.12
289+50		28950.00	50.00	15.10	8.53	0.00	27.45	15.02	0.00	2215.50	299.95	0.00	1915.55
290+00		29000.00	50.00	16.51	3.56	0.00	29.27	11.19	0.00	2244.77	311.14	0.00	1933.63
290+50		29050.00	50.00	20.98	0.37	0.00	34.71	3.64	0.00	2279.48	314.78	0.00	1964.70
291+00		29100.00	50.00	14.24	0.14	0.00	32.61	0.47	0.00	2312.09	315.25	0.00	1996.84
291+36	BK	29136.00	36.00	3.01	0.04	0.00	11.50	0.12	0.00	2323.59	315.37	0.00	2008.22
292+94	AH	29294.40	0.00	58.12	0.00	0.00	0.00	0.00	0.00	2323.59	315.37	0.00	2008.22
293+00		29300.00	5.60	69.68	0.00	0.00	13.25	0.00	0.00	2336.84	315.37	0.00	2021.47
293+50		29350.00	50.00	54.46	0.00	0.00	114.94	0.00	0.00	2451.79	315.37	0.00	2136.42
294+00		29400.00	50.00	35.74	0.04	0.00	83.52	0.04	0.00	2535.31	315.41	0.00	2219.90
294+50		29450.00	50.00	32.77	0.16	0.00	63.44	0.19	0.00	2598.74	315.59	0.00	2283.15
295+00		29500.00	50.00	35.60	0.18	0.00	63.31	0.31	0.00	2662.05	315.91	0.00	2346.14
295+50		29550.00	50.00	41.94	0.01	0.00	71.80	0.18	0.00	2733.84	316.09	0.00	2417.76
296+00		29600.00	50.00	64.33	0.00	0.00	98.40	0.01	0.00	2832.24	316.09	0.00	2516.15
296+20	BK	29620.00	20.00	21.10	0.00	0.00	31.64	0.00	0.00	2863.88	316.09	0.00	2547.79
296+96	AH	29696.00	0.00	4.99	0.00	0.00	0.00	0.00	0.00	2863.88	316.09	0.00	2547.79
297+00		29700.00	4.00	8.82	0.00	0.00	1.02	0.00	0.00	2864.91	316.09	0.00	2548.81
297+50		29750.00	50.00	20.52	10.76	0.00	27.17	9.96	0.00	2892.07	326.06	0.00	2566.01
298+00		29800.00	50.00	14.91	10.26	0.00	32.81	19.46	0.00	2924.88	345.52	0.00	2579.36
298+50		29850.00	50.00	36.35	0.00	0.00	47.46	9.50	0.00	2972.34	355.02	0.00	2617.32
299+00		29900.00	50.00	44.68	0.00	0.00	75.03	0.00	0.00	3047.37	355.02	0.00	2692.35
299+50		29950.00	50.00	12.01	5.63	0.00	52.49	5.21	0.00	3099.86	360.23	0.00	2739.63
300+00		30000.00	50.00	15.08	11.29	0.00	25.08	15.67	0.00	3124.94	375.90	0.00	2749.04
300+50		30050.00	50.00	17.56	9.30	0.00	30.22	19.06	0.00	3155.16	394.97	0.00	2760.20
301+00		30100.00	50.00	15.27	11.38	0.00	30.40	19.15	0.00	3185.56	414.11	0.00	2771.45
301+50		30150.00	50.00	16.07	10.47	0.00	29.02	20.23	0.00	3214.58	434.34	0.00	2780.24
302+00		30200.00	50.00	17.02	5.48	0.00	30.64	14.77	0.00	3245.22	449.11	0.00	2796.11
302+44	BK	30244.28	44.28	26.38	0.00	0.00	35.59	4.49	0.00	3280.81	453.61	0.00	2827.20

(CONTINUED ON NEXT SHEET)

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Division 1 TEMPORARY WIDENING AND CROSSOVERS

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
303+39 AH	30339.00	0.00	12.11	0.00	0.00	0.00	0.00	0.00	3280.81	453.61	0.00	2827.20
303+50	30350.00	11.00	26.32	0.00	0.00	7.83	0.00	0.00	3288.64	453.61	0.00	2835.03
304+00	30400.00	50.00	14.68	3.62	0.00	37.96	3.35	0.00	3326.60	456.96	0.00	2869.64
304+50	30450.00	50.00	16.93	10.36	0.00	29.27	12.94	0.00	3355.87	469.90	0.00	2885.97
305+00	30500.00	50.00	22.41	12.48	0.00	36.43	21.15	0.00	3392.29	491.05	0.00	2901.24
305+50	30550.00	50.00	21.62	16.99	0.00	40.77	27.29	0.00	3433.06	518.34	0.00	2914.72
306+00	30600.00	50.00	21.06	18.01	0.00	39.52	32.41	0.00	3472.58	550.75	0.00	2921.84
306+50	30650.00	50.00	19.59	21.22	0.00	37.64	36.32	0.00	3510.22	587.07	0.00	2923.15
307+00	30700.00	50.00	20.21	21.79	0.00	36.85	39.82	0.00	3547.07	626.89	0.00	2920.18
307+50	30750.00	50.00	19.86	20.36	0.00	37.10	39.03	0.00	3584.17	665.92	0.00	2918.25
308+00	30800.00	50.00	20.54	18.68	0.00	37.41	36.15	0.00	3621.58	702.07	0.00	2919.51
308+50	30850.00	50.00	20.40	16.94	0.00	37.91	32.98	0.00	3659.49	735.05	0.00	2924.44
309+00	30900.00	50.00	20.62	14.14	0.00	37.98	28.78	0.00	3697.47	763.83	0.00	2933.64
309+50	30950.00	50.00	20.98	16.61	0.00	38.52	28.47	0.00	3735.99	792.30	0.00	2943.69
310+00	31000.00	50.00	20.44	16.51	0.00	38.35	30.67	0.00	3774.34	822.97	0.00	2951.37
310+50	31050.00	50.00	19.86	12.58	0.00	37.31	26.94	0.00	3811.66	849.90	0.00	2961.75
311+00	31100.00	50.00	19.80	13.44	0.00	36.72	24.09	0.00	3848.38	874.00	0.00	2974.38
311+50	31150.00	50.00	19.65	12.32	0.00	36.53	23.85	0.00	3884.91	897.85	0.00	2987.06
312+00	31200.00	50.00	19.78	12.81	0.00	36.51	23.27	0.00	3921.41	921.12	0.00	3000.30
312+50	31250.00	50.00	20.09	14.29	0.00	36.92	25.09	0.00	3958.33	946.21	0.00	3012.12
313+00	31300.00	50.00	20.91	12.17	0.00	37.96	24.50	0.00	3996.29	970.71	0.00	3025.59
313+50	31350.00	50.00	21.98	11.67	0.00	39.71	22.07	0.00	4036.01	992.78	0.00	3043.22
314+00	31400.00	50.00	15.42	9.10	0.00	34.63	19.23	0.00	4070.64	1012.01	0.00	3058.62
314+15 BK	31415.00	15.00	4.28	0.03	0.00	5.47	2.54	0.00	4076.11	1014.55	0.00	3061.56
314+66 AH	31466.00	0.00	3.89	0.01	0.00	0.00	0.00	0.00	4076.11	1014.55	0.00	3061.56
315+00	31500.00	34.00	16.91	7.59	0.00	13.10	4.79	0.00	4089.21	1019.34	0.00	3069.87
315+50	31550.00	50.00	24.24	8.78	0.00	38.10	15.16	0.00	4127.31	1034.49	0.00	3092.81
316+00	31600.00	50.00	25.47	7.67	0.00	46.03	15.23	0.00	4173.33	1049.72	0.00	3123.61
316+50	31650.00	50.00	24.57	12.74	0.00	46.33	18.90	0.00	4219.67	1068.62	0.00	3151.05
317+00	31700.00	50.00	24.96	10.21	0.00	45.86	21.25	0.00	4265.53	1089.87	0.00	3175.66
317+50	31750.00	50.00	27.95	6.68	0.00	48.99	15.64	0.00	4314.52	1105.51	0.00	3209.01
318+00	31800.00	50.00	26.94	6.48	0.00	50.82	12.19	0.00	4365.34	1117.70	0.00	3247.65
318+50	31850.00	50.00	28.43	10.10	0.00	48.86	16.63	0.00	4222.20	1066.35	0.00	3155.85
319+00	31900.00	50.00	28.57	7.28	0.00	52.78	16.09	0.00	4274.98	1082.45	0.00	3192.53
319+50	31950.00	50.00	36.10	0.29	0.00	59.88	7.01	0.00	4334.86	1089.46	0.00	3245.40
320+00	32000.00	50.00	26.72	13.40	0.00	58.17	12.68	0.00	4393.02	1102.13	0.00	3290.89
320+50	32050.00	50.00	28.11	17.58	0.00	50.77	28.69	0.00	4443.79	1130.82	0.00	3312.97
321+00	32100.00	50.00	27.99	18.97	0.00	51.94	33.84	0.00	4495.74	1164.66	0.00	3331.08
321+50	32150.00	50.00	28.40	18.34	0.00	52.21	34.55	0.00	4547.95	1199.21	0.00	3348.74

(CONTINUED ON NEXT SHEET)

(CONTINUED)

Division 1 TEMPORARY WIDENING AND CROSSOVERS

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
322+00		32200.00	50.00	27.90	16.80	0.00	52.13	32.54	0.00	4600.08	1231.74	0.00	3368.34
322+50		32250.00	50.00	27.88	8.46	0.00	51.65	23.39	0.00	4651.73	1255.13	0.00	3396.60
323+00		32300.00	50.00	32.05	4.58	0.00	55.49	12.07	0.00	4707.22	1267.21	0.00	3440.01
323+50		32350.00	50.00	31.96	3.47	0.00	59.27	7.45	0.00	4766.49	1274.66	0.00	3491.83
324+00		32400.00	50.00	31.62	2.31	0.00	58.87	5.35	0.00	4825.36	1280.01	0.00	3545.35
324+50		32450.00	50.00	33.05	1.90	0.00	59.88	3.90	0.00	4885.24	1283.91	0.00	3601.33
325+00		32500.00	50.00	32.69	1.10	0.00	60.87	2.78	0.00	4946.11	1286.69	0.00	3659.42
325+50		32550.00	50.00	29.03	0.94	0.00	57.15	1.89	0.00	5003.25	1288.58	0.00	3714.68
326+00		32600.00	50.00	31.78	1.79	0.00	56.31	2.53	0.00	5059.56	1291.10	0.00	3768.46
326+50		32650.00	50.00	35.67	4.55	0.00	62.45	5.87	0.00	5122.01	1296.97	0.00	3825.04
327+00		32700.00	50.00	25.84	10.22	0.00	56.95	13.68	0.00	5178.97	1310.65	0.00	3868.32
327+50		32750.00	50.00	23.38	16.07	0.00	45.57	24.34	0.00	5224.54	1334.99	0.00	3889.55
328+00		32800.00	50.00	22.73	22.54	0.00	42.69	35.75	0.00	5267.24	1370.74	0.00	3896.49
328+50		32850.00	50.00	32.32	0.46	0.00	50.97	21.30	0.00	5318.21	1392.04	0.00	3926.17
329+00		32900.00	50.00	22.41	21.85	0.00	50.68	20.66	0.00	5368.88	1412.70	0.00	3956.19
329+50		32950.00	50.00	26.94	34.26	0.00	45.69	51.95	0.00	5414.58	1464.65	0.00	3949.93
330+00		33000.00	50.00	28.10	33.43	0.00	50.96	62.68	0.00	5465.54	1527.33	0.00	3938.22
330+50		33050.00	50.00	40.52	40.26	0.00	63.54	68.23	0.00	5529.08	1595.56	0.00	3933.52
331+00		33100.00	50.00	42.24	42.62	0.00	76.63	76.74	0.00	5605.71	1672.30	0.00	3933.41
331+50		33150.00	50.00	45.78	45.44	0.00	81.50	81.54	0.00	5687.21	1753.84	0.00	3933.37
332+00		33200.00	50.00	47.12	43.92	0.00	86.02	82.74	0.00	5773.23	1836.58	0.00	3936.65
332+50		33250.00	50.00	41.14	36.65	0.00	81.72	74.60	0.00	5854.95	1911.18	0.00	3943.77
333+00		33300.00	50.00	32.55	20.25	0.00	68.23	52.69	0.00	5923.18	1963.86	0.00	3959.32
333+50		33350.00	50.00	26.85	23.38	0.00	55.00	40.40	0.00	5978.18	2004.26	0.00	3973.92
334+00		33400.00	50.00	24.61	24.56	0.00	47.65	44.39	0.00	6025.83	2048.65	0.00	3977.18
334+50		33450.00	50.00	21.46	29.29	0.00	42.66	49.86	0.00	6068.49	2098.51	0.00	3969.97
335+00		33500.00	50.00	19.39	32.66	0.00	37.82	57.36	0.00	6106.31	2155.87	0.00	3950.44
335+50		33550.00	50.00	21.12	36.72	0.00	37.51	64.24	0.00	6143.82	2220.11	0.00	3923.71
336+00		33600.00	50.00	27.74	31.99	0.00	45.24	63.62	0.00	6189.06	2283.73	0.00	3905.33
336+50		33650.00	50.00	23.19	39.99	0.00	47.16	66.65	0.00	6236.22	2350.38	0.00	3885.84
337+00		33700.00	50.00	22.02	40.23	0.00	41.86	74.28	0.00	6278.08	2424.66	0.00	3853.42
337+50		33750.00	50.00	20.65	33.79	0.00	39.51	68.54	0.00	6317.59	2493.20	0.00	3824.39
338+00		33800.00	50.00	18.42	26.67	0.00	36.18	55.98	0.00	6353.76	2549.18	0.00	3804.59
338+50		33850.00	50.00	15.76	19.36	0.00	31.65	42.62	0.00	6385.41	2591.80	0.00	3793.61
339+00		33900.00	50.00	8.30	3.43	0.00	22.28	21.10	0.00	6407.69	2612.90	0.00	3794.79
339+50		33950.00	50.00	6.10	0.01	0.00	13.33	3.19	0.00	6421.02	2616.09	0.00	3804.94
339+92	BK	33992.00	42.00	4.57	0.00	0.00	8.30	0.01	0.00	6429.32	2616.09	0.00	3813.23
						Column totals	6621.33	2684.07	0.00				

Division 2 STH 20

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
265+07 AH	26506.70	0.00	153.17	1.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
265+50	26550.00	43.30	0.00	0.00	0.00	122.82	1.60	0.00	122.82	1.60	0.00	121.22
266+00	26600.00	50.00	150.27	7.95	0.00	139.14	7.36	0.00	261.96	8.96	0.00	253.00
266+50	26650.00	50.00	146.01	15.14	0.00	274.33	21.38	0.00	536.29	30.34	0.00	505.96
267+00	26700.00	50.00	146.32	2.01	0.00	270.68	15.88	0.00	806.97	46.22	0.00	760.75
267+50	26750.00	50.00	146.35	19.40	0.00	270.99	19.82	0.00	1077.96	66.04	0.00	1011.92
268+00	26800.00	50.00	137.00	3.93	0.00	262.36	21.60	0.00	1340.32	87.64	0.00	1252.68
268+50	26850.00	50.00	122.92	22.99	0.00	240.67	24.93	0.00	1580.99	112.57	0.00	1468.42
269+00	26900.00	50.00	116.40	5.58	0.00	221.59	26.45	0.00	1802.58	139.02	0.00	1663.56
269+50	26950.00	50.00	102.62	18.14	0.00	202.80	21.96	0.00	2005.38	160.98	0.00	1844.39
270+00	27000.00	50.00	94.80	22.54	0.00	182.80	37.67	0.00	2188.17	198.65	0.00	1989.52
270+50	27050.00	50.00	90.35	22.95	0.00	171.44	42.12	0.00	2359.61	240.77	0.00	2118.84
271+00	27100.00	50.00	139.80	0.00	0.00	213.10	21.25	0.00	2572.71	262.02	0.00	2310.69
271+50	27150.00	50.00	135.20	0.00	0.00	254.63	0.00	0.00	2827.34	262.02	0.00	2565.32
272+00	27200.00	50.00	128.44	48.82	0.00	244.11	45.20	0.00	3071.45	307.23	0.00	2764.22
272+50	27250.00	50.00	117.69	46.23	0.00	227.90	88.01	0.00	3299.35	395.23	0.00	2904.11
273+00	27300.00	50.00	112.59	68.21	0.00	213.22	105.96	0.00	3512.57	501.20	0.00	3011.37
273+50	27350.00	50.00	115.99	63.63	0.00	211.65	122.07	0.00	3724.22	623.27	0.00	3100.95
274+00	27400.00	50.00	108.79	57.50	0.00	208.13	112.16	0.00	3932.35	735.43	0.00	3196.92
274+50	27450.00	50.00	106.87	52.40	0.00	199.69	101.76	0.00	4132.03	837.19	0.00	3294.84
275+00	27500.00	50.00	107.32	57.08	0.00	198.32	101.37	0.00	4330.36	938.56	0.00	3391.80
275+50	27550.00	50.00	113.50	53.64	0.00	204.46	102.52	0.00	4534.82	1041.08	0.00	3493.74
276+00	27600.00	50.00	123.13	47.44	0.00	219.10	93.59	0.00	4753.92	1134.67	0.00	3619.25
276+50	27650.00	50.00	117.10	34.92	0.00	222.44	76.26	0.00	4976.36	1210.93	0.00	3765.43
277+00	27700.00	50.00	125.34	29.35	0.00	224.48	59.51	0.00	5200.84	1270.44	0.00	3930.40
277+50	27750.00	50.00	121.63	24.31	0.00	228.68	49.69	0.00	5429.51	1320.12	0.00	4109.39
278+00	27800.00	50.00	146.10	17.91	0.00	247.90	39.09	0.00	5677.41	1359.22	0.00	4318.20
278+50	27850.00	50.00	138.83	44.77	0.00	263.82	58.04	0.00	5941.24	1417.25	0.00	4523.98
279+00	27900.00	50.00	310.85	0.00	0.00	416.37	41.45	0.00	6357.61	1458.71	0.00	4898.90
279+50	27950.00	50.00	187.23	71.55	0.00	461.19	66.25	0.00	6818.79	1524.96	0.00	5293.84
280+00	28000.00	50.00	167.66	51.59	0.00	328.60	114.02	0.00	7147.39	1638.98	0.00	5508.42
280+50	28050.00	50.00	156.27	22.79	0.00	299.94	68.87	0.00	7447.33	1707.85	0.00	5739.48
281+00	28100.00	50.00	173.39	26.54	0.00	305.24	45.68	0.00	7752.57	1753.52	0.00	5999.05
281+50	28150.00	50.00	171.08	27.26	0.00	318.95	49.81	0.00	8071.52	1803.34	0.00	6268.19
282+00	28200.00	50.00	169.91	28.71	0.00	315.73	51.82	0.00	8387.25	1855.16	0.00	6532.09
282+50	28250.00	50.00	149.90	31.26	0.00	296.12	55.53	0.00	8683.38	1910.69	0.00	6772.69
283+00	28300.00	50.00	134.02	28.06	0.00	262.89	54.93	0.00	8946.26	1965.61	0.00	6980.65
283+50	28350.00	50.00	134.65	17.66	0.00	248.77	42.33	0.00	9195.03	2007.95	0.00	7187.09
284+00	28400.00	50.00	167.77	47.21	0.00	280.02	60.06	0.00	9475.05	2068.01	0.00	7407.04
284+50	28450.00	50.00	147.24	42.49	0.00	291.68	83.06	0.00	9766.73	2151.07	0.00	7615.66
285+00	28500.00	50.00	131.70	29.65	0.00	258.28	66.80	0.00	10025.00	2217.86	0.00	7807.14

9

(CONTINUED ON NEXT SHEET)

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(CONTINUED)

Division 2 STH 20

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
285+50	28550.00	50.00	133.74	16.66	0.00	245.78	42.88	0.00	10270.78	2260.74	0.00	8010.04
286+00	28600.00	50.00	129.90	10.59	0.00	244.11	25.23	0.00	10514.89	2285.98	0.00	8228.92
286+50	28650.00	50.00	118.59	13.10	0.00	230.08	21.94	0.00	10744.98	2307.91	0.00	8437.07
287+00	28700.00	50.00	76.78	14.26	0.00	180.90	25.33	0.00	10925.88	2333.24	0.00	8592.63
287+50	28750.00	50.00	130.89	0.02	0.00	192.29	13.22	0.00	11118.16	2346.47	0.00	8771.70
288+00	28800.00	50.00	120.23	0.01	0.00	232.52	0.03	0.00	11350.68	2346.49	0.00	9004.19
288+50	28850.00	50.00	89.12	0.00	0.00	193.84	0.01	0.00	11544.52	2346.50	0.00	9198.02
289+00	28900.00	50.00	88.35	3.10	0.00	164.32	2.87	0.00	11708.85	2349.37	0.00	9359.47
289+50	28950.00	50.00	198.28	10.36	0.00	265.40	12.46	0.00	11974.25	2361.84	0.00	9612.41
290+00	29000.00	50.00	213.77	7.83	0.00	381.53	16.84	0.00	12355.77	2378.68	0.00	9977.09
290+50	29050.00	50.00	232.35	4.46	0.00	413.07	11.38	0.00	12768.85	2390.06	0.00	10378.79
291+00	29100.00	50.00	236.47	2.04	0.00	434.09	6.02	0.00	13202.94	2396.08	0.00	10806.86
291+50	29150.00	50.00	208.13	0.00	0.00	411.67	1.89	0.00	13614.61	2397.97	0.00	11216.64
292+00	29200.00	50.00	210.79	0.00	0.00	387.89	0.00	0.00	14002.50	2397.97	0.00	11604.53
292+50	29250.00	50.00	222.24	0.00	0.00	400.95	0.00	0.00	14403.45	2397.97	0.00	12005.48
293+00	29300.00	50.00	366.33	0.00	0.00	544.97	0.00	0.00	14948.42	2397.97	0.00	12550.46
293+50	29350.00	50.00	365.45	0.00	0.00	677.57	0.00	0.00	15626.00	2397.97	0.00	13228.03
294+00	29400.00	50.00	342.41	0.00	0.00	655.43	0.00	0.00	16281.42	2397.97	0.00	13883.46
294+50	29450.00	50.00	351.19	0.00	0.00	642.22	0.00	0.00	16923.64	2397.97	0.00	14525.68
295+00	29500.00	50.00	371.57	0.00	0.00	669.22	0.00	0.00	17592.87	2397.97	0.00	15194.90
295+50	29550.00	50.00	411.91	0.00	0.00	725.44	0.00	0.00	18318.31	2397.97	0.00	15920.34
296+00	29600.00	50.00	404.94	0.00	0.00	756.34	0.00	0.00	19074.65	2397.97	0.00	16676.69
296+50	29650.00	50.00	324.59	0.00	0.00	675.49	0.00	0.00	19750.14	2397.97	0.00	17352.18
297+00	29700.00	50.00	269.50	0.00	0.00	550.08	0.00	0.00	20300.23	2397.97	0.00	17902.26
297+50	29750.00	50.00	228.76	0.00	0.00	461.35	0.00	0.00	20761.58	2397.97	0.00	18363.61
298+00	29800.00	50.00	223.38	1.27	0.00	418.65	1.18	0.00	21180.23	2399.14	0.00	18781.09
298+50	29850.00	50.00	276.06	28.72	0.00	462.44	27.77	0.00	21642.67	2426.91	0.00	19215.76
299+00	29900.00	50.00	272.50	28.75	0.00	507.93	53.21	0.00	22150.60	2480.12	0.00	19670.47
299+50	29950.00	50.00	232.34	34.91	0.00	467.44	58.94	0.00	22618.04	2539.07	0.00	20078.97
300+00	30000.00	50.00	232.54	10.05	0.00	430.44	41.63	0.00	23048.49	2580.70	0.00	20467.79
300+50	30050.00	50.00	170.03	7.07	0.00	372.75	15.85	0.00	23421.24	2596.55	0.00	20824.69
301+00	30100.00	50.00	167.94	4.39	0.00	312.94	10.61	0.00	23734.17	2607.16	0.00	21127.01
301+50	30150.00	50.00	315.42	0.00	0.00	447.56	4.06	0.00	24181.73	2611.23	0.00	21570.50
302+00	30200.00	50.00	306.19	0.00	0.00	575.56	0.00	0.00	24757.29	2611.23	0.00	22146.07
302+50	30250.00	50.00	288.45	0.00	0.00	550.59	0.00	0.00	25307.88	2611.23	0.00	22696.66
303+00	30300.00	50.00	224.25	8.71	0.00	474.72	8.06	0.00	25782.61	2619.29	0.00	23163.32
303+50	30350.00	50.00	228.82	33.14	0.00	419.51	38.75	0.00	26202.12	2658.04	0.00	23544.08
304+00	30400.00	50.00	194.37	8.71	0.00	391.84	38.75	0.00	26593.96	2696.79	0.00	23897.17
304+50	30450.00	50.00	150.92	32.73	0.00	319.71	38.37	0.00	26913.67	2735.16	0.00	24178.51
305+00	30500.00	50.00	158.01	46.26	0.00	286.05	73.14	0.00	27199.72	2808.30	0.00	24391.42
305+50	30550.00	50.00	167.94	72.17	0.00	301.81	109.66	0.00	27501.52	2917.96	0.00	24583.57

(CONTINUED ON NEXT SHEET)

9

(CONTINUED)

Division 2 STH 20

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
306+00	30600.00	50.00	134.92	185.79	0.00	280.43	238.85	0.00	27781.95	3156.81	0.00	24625.14
306+50	30650.00	50.00	145.00	179.93	0.00	259.19	338.63	0.00	28041.13	3495.44	0.00	24545.70
307+00	30700.00	50.00	135.82	147.57	0.00	260.02	303.24	0.00	28301.15	3798.68	0.00	24502.47
307+50	30750.00	50.00	131.48	185.22	0.00	247.50	308.14	0.00	28548.65	4106.82	0.00	24441.84
308+00	30800.00	50.00	130.03	139.08	0.00	242.14	300.28	0.00	28790.79	4407.10	0.00	24383.70
308+50	30850.00	50.00	126.73	140.70	0.00	237.74	259.06	0.00	29028.53	4666.15	0.00	24362.38
309+00	30900.00	50.00	119.39	124.38	0.00	227.89	245.44	0.00	29256.42	4911.60	0.00	24344.83
309+50	30950.00	50.00	116.84	114.05	0.00	218.73	220.77	0.00	29475.15	5132.36	0.00	24342.79
310+00	31000.00	50.00	114.54	122.56	0.00	214.24	219.08	0.00	29689.39	5351.45	0.00	24337.95
310+50	31050.00	50.00	107.84	83.94	0.00	205.91	191.20	0.00	29895.30	5542.65	0.00	24352.65
311+00	31100.00	50.00	107.41	85.85	0.00	199.31	157.21	0.00	30094.61	5699.86	0.00	24394.74
311+50	31150.00	50.00	113.67	87.04	0.00	204.70	160.08	0.00	30299.31	5859.95	0.00	24439.36
312+00	31200.00	50.00	141.48	45.80	0.00	236.25	123.00	0.00	30535.56	5982.95	0.00	24552.61
312+50	31250.00	50.00	207.45	34.55	0.00	323.08	74.40	0.00	30858.64	6057.35	0.00	24801.30
313+00	31300.00	50.00	103.68	53.58	0.00	288.08	81.60	0.00	31146.73	6138.95	0.00	25007.78
313+50	31350.00	50.00	108.94	116.17	0.00	196.87	157.18	0.00	31343.60	6296.12	0.00	25047.47
314+00	31400.00	50.00	115.94	47.97	0.00	208.22	151.98	0.00	31551.82	6448.10	0.00	25103.71
314+50	31450.00	50.00	183.21	48.26	0.00	276.99	89.10	0.00	31828.81	6537.21	0.00	25291.60
315+00	31500.00	50.00	185.88	68.95	0.00	341.75	108.53	0.00	32170.56	6645.73	0.00	25524.83
315+50	31550.00	50.00	167.53	71.15	0.00	327.23	129.72	0.00	32497.79	6775.46	0.00	25722.34
316+00	31600.00	50.00	169.35	77.75	0.00	311.93	137.87	0.00	32809.72	6913.33	0.00	25896.39
316+50	31650.00	50.00	180.10	63.68	0.00	323.56	130.95	0.00	33133.28	7044.28	0.00	26089.00
317+00	31700.00	50.00	190.60	121.19	0.00	343.24	171.18	0.00	33476.52	7215.46	0.00	26261.07
317+50	31750.00	50.00	177.60	136.82	0.00	340.93	238.90	0.00	33817.45	7454.35	0.00	26363.09
318+00	31800.00	50.00	198.32	86.10	0.00	348.07	206.41	0.00	34165.52	7660.76	0.00	26504.76
318+50	31850.00	50.00	196.39	68.46	0.00	365.47	143.11	0.00	34531.00	7803.87	0.00	26727.12
319+00	31900.00	50.00	200.85	72.78	0.00	367.81	130.78	0.00	34898.81	7934.65	0.00	26964.16
319+50	31950.00	50.00	179.08	2.90	0.00	351.79	70.07	0.00	35250.60	8004.73	0.00	27245.87
320+00	32000.00	50.00	176.25	1.17	0.00	329.01	3.77	0.00	35579.61	8008.49	0.00	27571.11
320+50	32050.00	50.00	173.26	1.94	0.00	323.62	2.88	0.00	35903.23	8011.37	0.00	27891.85
321+00	32100.00	50.00	171.18	0.51	0.00	318.93	2.27	0.00	36222.15	8013.64	0.00	28208.51
321+50	32150.00	50.00	178.42	0.07	0.00	323.70	0.54	0.00	36545.86	8014.18	0.00	28531.68
322+00	32200.00	50.00	256.35	3.25	0.00	402.56	3.07	0.00	36948.42	8017.25	0.00	28931.17
322+50	32250.00	50.00	300.27	7.20	0.00	515.39	9.68	0.00	37463.81	8026.93	0.00	29436.88
323+00	32300.00	50.00	329.67	5.00	0.00	583.28	11.30	0.00	38047.09	8038.23	0.00	30008.86
323+50	32350.00	50.00	324.65	9.21	0.00	605.85	13.16	0.00	38652.94	8051.38	0.00	30601.56
324+00	32400.00	50.00	329.67	14.17	0.00	605.85	21.65	0.00	39258.79	8073.03	0.00	31185.76
324+50	32450.00	50.00	324.65	9.21	0.00	605.85	21.65	0.00	39864.64	8094.68	0.00	31769.96
325+00	32500.00	50.00	0.00	0.00	0.00	300.60	8.53	0.00	40165.25	8103.21	0.00	32062.04
325+50	32550.00	50.00	223.04	16.05	0.00	206.52	14.86	0.00	40371.76	8118.07	0.00	32253.70
326+00	32600.00	50.00	208.14	17.06	0.00	399.24	30.66	0.00	40771.00	8148.73	0.00	32622.28

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(CONTINUED ON NEXT SHEET)

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(CONTINUED)

Division 2 STH 20

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
326+50		32650.00	50.00	210.06	14.94	0.00	387.22	29.63	0.00	41158.23	8178.35	0.00	32979.87
327+00		32700.00	50.00	208.14	2.56	0.00	387.22	16.20	0.00	41545.45	8194.56	0.00	33350.89
327+50		32750.00	50.00	210.06	2.77	0.00	387.22	4.94	0.00	41932.67	8199.49	0.00	33733.18
328+00		32800.00	50.00	213.77	2.56	0.00	392.44	4.94	0.00	42325.11	8204.43	0.00	34120.68
328+50		32850.00	50.00	212.53	2.70	0.00	394.72	4.87	0.00	42719.83	8209.30	0.00	34510.53
329+00		32900.00	50.00	207.91	2.77	0.00	389.30	5.06	0.00	43109.13	8214.36	0.00	34894.76
329+50		32950.00	50.00	108.53	5.56	0.00	293.00	7.71	0.00	43402.13	8222.08	0.00	35180.05
330+00		33000.00	50.00	107.14	3.17	0.00	199.69	8.08	0.00	43601.82	8230.16	0.00	35371.66
330+50		33050.00	50.00	96.31	3.34	0.00	188.38	6.03	0.00	43790.20	8236.19	0.00	35554.01
331+00		33100.00	50.00	81.64	7.89	0.00	164.77	10.40	0.00	43954.97	8246.59	0.00	35708.38
331+50		33150.00	50.00	67.74	10.60	0.00	138.31	17.12	0.00	44093.28	8263.71	0.00	35829.58
332+00		33200.00	50.00	64.09	7.67	0.00	122.06	16.92	0.00	44215.35	8280.62	0.00	35934.72
332+50		33250.00	50.00	55.55	7.78	0.00	110.78	14.31	0.00	44326.13	8294.93	0.00	36031.20
333+00		33300.00	50.00	50.35	3.66	0.00	98.06	10.59	0.00	44424.18	8305.52	0.00	36118.66
333+50		33350.00	50.00	43.06	9.35	0.00	86.49	12.05	0.00	44510.67	8317.57	0.00	36193.10
334+00		33400.00	50.00	40.00	3.66	0.00	76.91	12.05	0.00	44587.58	8329.61	0.00	36257.96
334+50		33450.00	50.00	43.20	9.35	0.00	77.04	12.05	0.00	44664.62	8341.66	0.00	36322.96
335+00		33500.00	50.00	45.36	12.07	0.00	82.00	19.83	0.00	44746.62	8361.49	0.00	36385.12
335+50		33550.00	50.00	32.56	12.64	0.00	72.15	22.88	0.00	44818.76	8384.37	0.00	36434.39
336+00		33600.00	50.00	27.90	12.75	0.00	55.98	23.51	0.00	44874.75	8407.88	0.00	36466.86
336+30	BK	33630.00	30.00	37.60	10.20	0.00	36.39	12.75	0.00	44911.13	8420.63	0.00	36490.50
Column totals							44911.13	8420.63	0.00				

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	EARTHWORK	SHEET: 862	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090101_ew.ppt PLOT DATE : 12/12/2019 3:18:28 AM PLOT BY : MSCD1S PLOT NAME : 090101_ew8 PLOT SCALE : 1:1

Division 2 RAMP NW

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
864+09 AH	86409.00	0.00	48.59	80.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
864+50	86450.00	41.00	93.82	48.00	0.00	108.13	97.34	0.00	108.13	97.34	0.00	10.78
865+00	86500.00	50.00	50.37	70.69	0.00	133.51	109.90	0.00	241.64	207.24	0.00	34.39
865+50	86550.00	50.00	46.35	52.89	0.00	89.56	114.43	0.00	331.19	321.67	0.00	9.52
866+00	86600.00	50.00	129.76	56.82	0.00	163.06	101.58	0.00	494.26	423.25	0.00	71.00
866+50	86650.00	50.00	109.30	14.21	0.00	221.35	65.77	0.00	715.61	489.02	0.00	226.59
867+00	86700.00	50.00	89.04	20.79	0.00	183.65	32.41	0.00	899.26	521.43	0.00	377.83
867+50	86750.00	50.00	82.97	41.16	0.00	159.27	57.36	0.00	1058.52	578.79	0.00	479.74
868+00	86800.00	50.00	86.11	28.77	0.00	156.56	64.75	0.00	1215.08	643.54	0.00	571.54
868+50	86850.00	50.00	89.33	24.11	0.00	162.44	48.96	0.00	1377.52	692.50	0.00	685.02
868+51 BK	86851.00	1.00	89.44	24.26	0.00	3.31	0.90	0.00	1380.83	693.40	0.00	687.44
					Column totals	1380.83	693.40	0.00				

Division 2 RAMP SE

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
855+90 AH	85590.00	0.00	75.86	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
856+00	85600.00	10.00	94.53	7.11	0.00	31.55	2.22	0.00	31.55	2.22	0.00	29.33
856+50	85650.00	50.00	84.28	8.89	0.00	165.56	14.81	0.00	197.12	17.04	0.00	180.08
857+00	85700.00	50.00	120.97	0.61	0.00	190.05	8.80	0.00	387.16	25.83	0.00	361.33
857+50	85750.00	50.00	146.60	0.00	0.00	247.75	0.56	0.00	634.91	26.40	0.00	608.52
858+00	85800.00	50.00	173.13	0.00	0.00	296.05	0.00	0.00	930.96	26.40	0.00	904.56
858+50	85850.00	50.00	215.75	0.00	0.00	360.07	0.00	0.00	1291.04	26.40	0.00	1264.64
859+00	85900.00	50.00	291.28	0.00	0.00	469.47	0.00	0.00	1760.51	26.40	0.00	1734.11
859+50	85950.00	50.00	367.32	0.00	0.00	609.81	0.00	0.00	2370.32	26.40	0.00	2343.92
860+00	86000.00	50.00	439.92	0.00	0.00	747.44	0.00	0.00	3117.77	26.40	0.00	3091.37
860+50 BK	86050.00	50.00	428.16	0.00	0.00	803.78	0.00	0.00	3921.54	26.40	0.00	3895.15
					Column totals	3921.54	26.40	0.00				

Division 2 RAMP SW

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
858+57 AH	85857.00	0.00	167.53	5.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
859+00	85900.00	43.00	174.85	72.74	0.00	272.64	62.06	0.00	272.64	62.06	0.00	210.58
859+50	85950.00	50.00	144.76	83.81	0.00	295.94	144.95	0.00	568.57	207.01	0.00	361.56
860+00	86000.00	50.00	170.10	34.72	0.00	291.54	109.75	0.00	860.11	316.76	0.00	543.35
860+50	86050.00	50.00	194.20	8.26	0.00	337.31	39.80	0.00	1197.42	356.56	0.00	840.87
861+00	86100.00	50.00	227.59	5.52	0.00	390.55	12.76	0.00	1587.97	369.31	0.00	1218.65
861+50	86150.00	50.00	263.77	20.79	0.00	454.96	24.36	0.00	2042.93	393.68	0.00	1649.26
862+00	86200.00	50.00	391.05	0.30	0.00	606.31	19.53	0.00	2649.25	413.20	0.00	2236.04
862+03 BK	86203.33	3.33	403.78	0.27	0.00	49.01	0.04	0.00	2698.26	413.24	0.00	2285.02
					Column totals	2698.26	413.24	0.00				

Division 2 RAMP NE

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
862+11 AH	86210.85	0.00	473.37	70.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
862+50	86250.00	39.15	356.44	47.33	0.00	601.61	85.59	0.00	601.61	85.59	0.00	516.03
863+00	86300.00	50.00	318.14	54.25	0.00	624.61	94.06	0.00	1226.22	179.64	0.00	1046.58
863+50	86350.00	50.00	410.91	2.91	0.00	675.05	52.93	0.00	1901.27	232.57	0.00	1668.70
864+00	86400.00	50.00	399.22	9.24	0.00	750.12	11.25	0.00	2651.39	243.82	0.00	2407.57
864+50	86450.00	50.00	362.04	38.22	0.00	704.87	43.94	0.00	3356.26	287.76	0.00	3068.50
865+00	86500.00	50.00	293.95	61.16	0.00	607.40	92.02	0.00	3963.66	379.78	0.00	3583.88
865+50	86550.00	50.00	246.23	110.78	0.00	500.17	159.20	0.00	4463.83	538.98	0.00	3924.84
866+00	86600.00	50.00	251.95	29.46	0.00	461.28	129.85	0.00	4925.10	668.84	0.00	4256.27
866+50	86650.00	50.00	238.74	42.86	0.00	454.34	66.96	0.00	5379.45	735.80	0.00	4643.65
867+00 BK	86699.60	49.60	173.73	26.15	0.00	378.86	63.39	0.00	5758.31	799.19	0.00	4959.12
					Column totals	5758.31	799.19	0.00				

Division 2 WEST FRONTAGE ROAD

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2857+00	AH	285700.40	0.00	79.93	11.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2857+50		285750.00	49.60	50.99	40.16	0.00	120.25	47.01	0.00	120.25	47.01	0.00	73.24
2858+00		285800.00	50.00	53.60	38.71	0.00	96.84	73.03	0.00	217.10	120.04	0.00	97.06
2858+50		285850.00	50.00	71.80	23.80	0.00	116.11	57.88	0.00	333.21	177.92	0.00	155.29
2859+00		285900.00	50.00	73.73	27.19	0.00	134.75	47.21	0.00	467.96	225.13	0.00	242.83
2859+50		285950.00	50.00	74.61	19.72	0.00	137.35	43.44	0.00	605.31	268.57	0.00	336.74
2860+00		286000.00	50.00	74.27	16.63	0.00	137.85	33.66	0.00	743.16	302.22	0.00	440.94
2860+50		286050.00	50.00	77.07	16.37	0.00	140.13	30.56	0.00	883.29	332.78	0.00	550.51
2861+00		286100.00	50.00	85.62	5.75	0.00	150.64	20.48	0.00	1033.93	353.26	0.00	680.67
2861+50		286150.00	50.00	92.07	23.33	0.00	164.53	26.93	0.00	1198.46	380.19	0.00	818.27
2862+00		286200.00	50.00	92.17	20.61	0.00	170.59	40.69	0.00	1369.05	420.87	0.00	948.18
2862+50		286250.00	50.00	99.95	15.54	0.00	177.89	33.47	0.00	1546.94	454.34	0.00	1092.59
2863+00		286300.00	50.00	107.89	7.08	0.00	192.44	20.94	0.00	1739.38	475.29	0.00	1264.09
2863+50		286350.00	50.00	146.89	0.54	0.00	235.91	7.06	0.00	1975.29	482.34	0.00	1492.95
2864+00		286400.00	50.00	228.08	0.15	0.00	347.19	0.64	0.00	2322.48	482.98	0.00	1839.50
2864+30	BK	286430.00	30.00	227.59	43.24	0.00	253.15	24.11	0.00	2575.63	507.09	0.00	2068.55
4865+20	AH	486520.00	0.00	137.21	111.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2068.55
4865+50		486550.00	30.00	78.73	51.40	0.00	119.97	90.55	0.00	119.97	90.55	0.00	2097.96
4866+00		486600.00	50.00	53.84	67.89	0.00	122.75	110.45	0.00	242.72	201.00	0.00	2110.26
4866+50		486650.00	50.00	116.57	6.61	0.00	157.79	68.98	0.00	400.50	269.99	0.00	2199.06
4867+00		486700.00	50.00	109.62	28.08	0.00	209.44	32.12	0.00	609.94	302.11	0.00	2376.38
4867+50		486750.00	50.00	131.48	3.13	0.00	223.24	28.90	0.00	833.18	331.00	0.00	2570.72
4868+00	BK	486799.55	49.55	144.81	44.11	0.00	253.52	43.35	0.00	1086.70	374.35	0.00	2780.90
						Column totals	3662.34	881.44	0.00				

Division 2 EAST FRONTAGE ROAD

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
3852+25 AH	385225.40	0.00	86.93	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3852+50	385250.00	24.60	83.71	1.86	0.00	77.74	2.05	0.00	77.74	2.05	0.00	75.68
3853+00	385300.00	50.00	73.91	3.30	0.00	145.94	4.78	0.00	223.68	6.83	0.00	216.85
3853+50	385350.00	50.00	69.72	3.54	0.00	132.99	6.33	0.00	356.67	13.17	0.00	343.51
3854+00	385400.00	50.00	73.83	2.04	0.00	132.92	5.17	0.00	489.59	18.33	0.00	471.26
3854+50	385450.00	50.00	79.58	0.00	0.00	142.05	1.89	0.00	631.63	20.22	0.00	611.41
3855+00	385500.00	50.00	88.52	0.00	0.00	155.65	0.00	0.00	787.28	20.22	0.00	767.06
3855+50	385550.00	50.00	130.63	0.00	0.00	202.92	0.00	0.00	990.20	20.22	0.00	969.98
3856+00	385600.00	50.00	120.65	1.04	0.00	232.67	0.96	0.00	1222.87	21.18	0.00	1201.68
3856+50	385650.00	50.00	153.20	0.00	0.00	253.56	0.96	0.00	1476.43	22.15	0.00	1454.28
3857+00	385700.00	50.00	160.13	0.00	0.00	290.12	0.00	0.00	1766.55	22.15	0.00	1744.40
3857+50	385750.00	50.00	180.21	0.00	0.00	315.13	0.00	0.00	2081.68	22.15	0.00	2059.53
3858+00	385800.00	50.00	285.95	23.06	0.00	431.63	21.35	0.00	2513.31	43.50	0.00	2469.81
3858+10 BK	385810.00	10.00	291.36	67.42	0.00	106.91	16.76	0.00	2620.22	60.25	0.00	2559.96
5859+96 AH	585996.00	0.00	334.67	84.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2559.96
5860+00	586000.00	4.00	310.23	76.08	0.00	47.77	11.89	0.00	47.77	11.89	0.00	2595.85
5860+50	586050.00	50.00	195.37	12.86	0.00	468.15	82.35	0.00	515.92	94.24	0.00	2981.64
5861+00	586100.00	50.00	193.35	9.51	0.00	359.93	20.71	0.00	875.84	114.95	0.00	3320.86
5861+50	586150.00	50.00	184.47	6.48	0.00	349.83	14.81	0.00	1225.68	129.76	0.00	3655.88
5862+00	586200.00	50.00	193.32	2.34	0.00	349.81	8.17	0.00	1575.48	137.93	0.00	3997.52
5862+50	586250.00	50.00	164.94	1.43	0.00	331.72	3.49	0.00	1907.21	141.42	0.00	4325.75
5863+00	586300.00	50.00	147.91	12.44	0.00	289.68	12.84	0.00	2196.88	154.26	0.00	4602.59
5863+14 BK	586314.00	14.00	156.15	9.27	0.00	78.83	5.63	0.00	2275.71	159.89	0.00	4675.79
		Column totals				4895.93	220.14	0.00				

Division 2 RED CLOUD

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
269+77 AH	26977.10	0.00	116.89	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
269+86	26985.50	8.40	190.52	0.00	0.00	47.82	0.06	0.00	47.82	0.06	0.00	47.76
270+00 BK	27000.00	14.50	193.00	5.09	0.00	102.98	1.37	0.00	150.80	1.43	0.00	149.37
272+00 AH	27200.00	0.00	0.00	401.46	0.00	0.00	0.00	0.00	150.80	1.43	0.00	149.37
272+29	27229.40	29.40	0.00	376.88	0.00	0.00	423.76	0.00	150.80	425.19	0.00	-274.39
272+69 BK	27269.40	40.00	0.00	276.69	0.00	0.00	484.13	0.00	150.80	909.32	0.00	-758.51
				Column totals		150.80	909.32	0.00				

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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	EARTHWORK	SHEET: 867	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090101_ew.ppt PLOT DATE : 12/12/2019 3:18:28 AM PLOT BY : MSCD1S PLOT NAME : 090101_ew13 PLOT SCALE : 1:1

Division 3 STH 20

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
265+07 AH	26506.70	0.00	125.93	17.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
265+50	26550.00	43.30	279.10	19.05	0.00	324.77	28.95	0.00	324.77	28.95	0.00	295.82
266+00	26600.00	50.00	134.23	18.39	0.00	382.71	34.67	0.00	707.49	63.62	0.00	643.87
266+50	26650.00	50.00	139.58	9.75	0.00	253.53	26.06	0.00	961.01	89.68	0.00	871.34
267+00	26700.00	50.00	137.05	26.96	0.00	256.14	33.99	0.00	1217.15	123.67	0.00	1093.49
267+50	26750.00	50.00	124.01	18.04	0.00	241.72	41.67	0.00	1458.88	165.33	0.00	1293.54
268+00	26800.00	50.00	123.06	37.32	0.00	228.77	51.26	0.00	1687.64	216.59	0.00	1471.05
268+50	26850.00	50.00	132.30	22.20	0.00	236.44	55.11	0.00	1924.09	271.70	0.00	1652.38
269+00	26900.00	50.00	133.40	53.97	0.00	246.02	70.53	0.00	2170.11	342.23	0.00	1827.87
269+50	26950.00	50.00	141.93	45.13	0.00	254.94	91.76	0.00	2425.04	433.99	0.00	1991.05
270+00	27000.00	50.00	151.82	43.40	0.00	271.99	81.97	0.00	2697.03	515.96	0.00	2181.07
270+50	27050.00	50.00	198.31	0.61	0.00	324.19	40.75	0.00	3021.23	556.71	0.00	2464.51
271+00	27100.00	50.00	146.72	0.05	0.00	319.47	0.61	0.00	3340.70	557.33	0.00	2783.37
271+50	27150.00	50.00	138.22	73.21	0.00	263.83	67.83	0.00	3604.53	625.16	0.00	2979.37
272+00	27200.00	50.00	121.88	51.57	0.00	240.83	115.54	0.00	3845.37	740.70	0.00	3104.67
272+50	27250.00	50.00	141.77	67.73	0.00	244.12	110.46	0.00	4089.49	851.16	0.00	3238.33
273+00	27300.00	50.00	145.04	32.37	0.00	265.56	92.69	0.00	4355.05	943.84	0.00	3411.21
273+50	27350.00	50.00	132.32	30.38	0.00	256.81	58.10	0.00	4611.87	1001.95	0.00	3609.92
274+00	27400.00	50.00	140.13	31.01	0.00	252.27	56.84	0.00	4864.14	1058.79	0.00	3805.35
274+50	27450.00	50.00	148.69	39.03	0.00	267.43	64.85	0.00	5131.56	1123.64	0.00	4007.92
275+00	27500.00	50.00	160.48	22.66	0.00	286.27	57.12	0.00	5417.83	1180.76	0.00	4237.07
275+50	27550.00	50.00	180.17	12.33	0.00	315.42	32.40	0.00	5733.25	1213.16	0.00	4520.09
276+00	27600.00	50.00	173.47	5.20	0.00	327.44	16.23	0.00	6060.69	1229.39	0.00	4831.30
276+50	27650.00	50.00	195.74	8.70	0.00	341.86	12.87	0.00	6402.55	1242.26	0.00	5160.29
277+00	27700.00	50.00	190.47	11.05	0.00	357.60	18.29	0.00	6760.15	1260.55	0.00	5499.61
277+50	27750.00	50.00	224.10	4.80	0.00	383.86	14.68	0.00	7144.01	1275.22	0.00	5868.79
278+00	27800.00	50.00	199.89	40.19	0.00	392.58	41.66	0.00	7536.60	1316.88	0.00	6219.72
278+50	27850.00	50.00	422.60	0.00	0.00	576.38	37.21	0.00	8112.98	1354.09	0.00	6758.88
279+00	27900.00	50.00	87.91	111.17	0.00	472.69	102.94	0.00	8585.67	1457.03	0.00	7128.64
279+50	27950.00	50.00	156.44	23.67	0.00	226.25	124.85	0.00	8811.92	1581.88	0.00	7230.04
280+00	28000.00	50.00	170.14	4.49	0.00	302.39	26.07	0.00	9114.31	1607.95	0.00	7506.36
280+50	28050.00	50.00	199.71	34.12	0.00	342.45	35.75	0.00	9456.76	1643.70	0.00	7813.06
281+00	28100.00	50.00	174.51	32.00	0.00	346.50	61.22	0.00	9803.26	1704.93	0.00	8098.34
281+50	28150.00	50.00	167.18	39.59	0.00	316.38	66.29	0.00	10119.64	1771.21	0.00	8348.43
282+00	28200.00	50.00	136.94	34.10	0.00	281.59	68.23	0.00	10401.24	1839.45	0.00	8561.79
282+50	28250.00	50.00	189.28	18.29	0.00	302.06	48.51	0.00	10703.29	1887.95	0.00	8815.34
283+00	28300.00	50.00	215.57	0.00	0.00	374.86	16.94	0.00	11078.15	1904.89	0.00	9173.26
283+50	28350.00	50.00	181.97	73.66	0.00	368.09	68.20	0.00	11446.25	1973.09	0.00	9473.15
284+00	28400.00	50.00	145.14	21.77	0.00	302.88	88.36	0.00	11749.13	2061.45	0.00	9687.67
284+50	28450.00	50.00	161.16	5.75	0.00	283.61	25.48	0.00	12032.74	2086.94	0.00	9945.80
285+00	28500.00	50.00	191.54	0.42	0.00	326.57	5.71	0.00	12359.31	2092.65	0.00	10266.66

(CONTINUED ON NEXT SHEET)

(CONTINUED)

Division 3 STH 20

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
285+50	28550.00	50.00	200.26	26.12	0.00	362.78	24.57	0.00	12722.09	2117.22	0.00	10604.87
286+00	28600.00	50.00	186.66	44.64	0.00	358.26	65.52	0.00	13080.35	2182.74	0.00	10897.61
286+50	28650.00	50.00	123.97	0.07	0.00	287.62	41.40	0.00	13367.97	2224.14	0.00	11143.83
287+00	28700.00	50.00	190.66	1.10	0.00	291.32	1.08	0.00	13659.29	2225.22	0.00	11434.07
287+50	28750.00	50.00	138.42	0.00	0.00	304.70	1.02	0.00	13964.00	2226.24	0.00	11737.75
288+00	28800.00	50.00	162.94	0.00	0.00	279.04	0.00	0.00	14243.03	2226.24	0.00	12016.79
288+50	28850.00	50.00	275.17	0.63	0.00	405.66	0.58	0.00	14648.69	2226.83	0.00	12421.87
289+00	28900.00	50.00	385.97	11.45	0.00	612.17	11.19	0.00	15260.86	2238.01	0.00	13022.85
289+50	28950.00	50.00	357.19	0.00	0.00	688.11	10.60	0.00	15948.97	2248.61	0.00	13700.36
290+00	29000.00	50.00	434.77	0.20	0.00	733.30	0.19	0.00	16682.26	2248.80	0.00	14433.47
290+50	29050.00	50.00	459.53	0.00	0.00	828.06	0.19	0.00	17510.32	2248.98	0.00	15261.34
291+00	29100.00	50.00	437.75	0.00	0.00	830.81	0.00	0.00	18341.14	2248.98	0.00	16092.15
291+50	29150.00	50.00	432.18	2.90	0.00	805.49	2.69	0.00	19146.63	2251.67	0.00	16894.96
292+00	29200.00	50.00	366.76	0.00	0.00	739.76	2.69	0.00	19886.39	2254.35	0.00	17632.03
292+50	29250.00	50.00	422.91	59.25	0.00	731.18	54.86	0.00	20617.56	2309.21	0.00	18308.35
293+00	29300.00	50.00	377.03	0.01	0.00	740.69	54.87	0.00	21358.25	2364.08	0.00	18994.16
293+50	29350.00	50.00	377.91	0.01	0.00	699.02	0.02	0.00	22057.26	2364.10	0.00	19693.16
294+00	29400.00	50.00	400.95	0.01	0.00	721.17	0.02	0.00	22778.43	2364.12	0.00	20414.31
294+50	29450.00	50.00	392.17	0.01	0.00	734.37	0.02	0.00	23512.80	2364.14	0.00	21148.66
295+00	29500.00	50.00	371.79	0.01	0.00	707.37	0.02	0.00	24220.17	2364.16	0.00	21856.01
295+50	29550.00	50.00	331.45	0.01	0.00	651.15	0.02	0.00	24871.32	2364.18	0.00	22507.14
296+00	29600.00	50.00	227.11	1.29	0.00	517.19	1.20	0.00	25388.51	2365.38	0.00	23023.12
296+50	29650.00	50.00	221.78	0.00	0.00	415.64	1.19	0.00	25804.14	2366.58	0.00	23437.57
297+00	29700.00	50.00	216.08	0.00	0.00	405.43	0.00	0.00	26209.57	2366.58	0.00	23843.00
297+50	29750.00	50.00	228.74	3.32	0.00	411.87	3.07	0.00	26621.44	2369.65	0.00	24251.79
298+00	29800.00	50.00	313.68	33.34	0.00	502.24	33.94	0.00	27123.68	2403.59	0.00	24720.09
298+50	29850.00	50.00	272.59	0.03	0.00	542.84	30.90	0.00	27666.52	2434.49	0.00	25232.03
299+00	29900.00	50.00	276.45	6.16	0.00	508.37	5.73	0.00	28174.89	2440.22	0.00	25734.67
299+50	29950.00	50.00	304.75	0.98	0.00	538.15	6.61	0.00	28713.04	2446.83	0.00	26266.21
300+00	30000.00	50.00	284.19	0.00	0.00	545.31	0.91	0.00	29258.36	2447.74	0.00	26810.62
300+50	30050.00	50.00	332.45	0.00	0.00	570.96	0.00	0.00	29829.32	2447.74	0.00	27381.58
301+00	30100.00	50.00	301.91	0.00	0.00	587.37	0.00	0.00	30416.69	2447.74	0.00	27968.95
301+50	30150.00	50.00	128.34	16.84	0.00	398.38	15.59	0.00	30815.07	2463.33	0.00	28351.74
302+00	30200.00	50.00	94.32	0.02	0.00	206.17	15.61	0.00	31021.24	2478.95	0.00	28542.29
302+50	30250.00	50.00	212.83	0.00	0.00	284.40	0.02	0.00	31305.64	2478.96	0.00	28826.67
303+00	30300.00	50.00	269.78	0.52	0.00	446.86	0.48	0.00	31752.50	2479.45	0.00	29273.05
303+50	30350.00	50.00	235.61	1.42	0.00	467.95	1.80	0.00	32220.45	2481.24	0.00	29739.21
304+00	30400.00	50.00	175.01	0.00	0.00	380.20	1.31	0.00	32600.65	2482.56	0.00	30118.10

9

(CONTINUED ON NEXT SHEET)

9

(CONTINUED)

Division 3 STH 20

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
304+50	30450.00	50.00	204.81	0.00	0.00	351.69	0.00	0.00	32952.34	2482.56	0.00	30469.78
305+00	30500.00	50.00	196.05	29.77	0.00	371.17	27.56	0.00	33323.51	2510.12	0.00	30813.38
305+50	30550.00	50.00	181.89	0.00	0.00	349.94	27.56	0.00	33673.45	2537.69	0.00	31135.76
306+00	30600.00	50.00	180.67	0.00	0.00	335.70	0.00	0.00	34009.15	2537.69	0.00	31471.47
306+50	30650.00	50.00	184.15	0.90	0.00	337.80	0.83	0.00	34346.95	2538.52	0.00	31808.43
307+00	30700.00	50.00	170.47	0.00	0.00	328.35	0.83	0.00	34675.30	2539.35	0.00	32135.95
307+50	30750.00	50.00	156.93	0.00	0.00	303.15	0.00	0.00	34978.45	2539.35	0.00	32439.10
308+00	30800.00	50.00	148.01	66.49	0.00	282.35	61.56	0.00	35260.80	2600.92	0.00	32659.88
308+50	30850.00	50.00	149.35	82.74	0.00	275.33	138.18	0.00	35536.14	2739.09	0.00	32797.04
309+00	30900.00	50.00	176.24	91.73	0.00	301.47	161.55	0.00	35837.61	2900.64	0.00	32936.97
309+50	30950.00	50.00	210.15	105.45	0.00	357.77	182.57	0.00	36195.38	3083.21	0.00	33112.16
310+00	31000.00	50.00	202.67	76.09	0.00	382.24	168.09	0.00	36577.62	3251.31	0.00	33326.31
310+50	31050.00	50.00	178.85	102.99	0.00	353.26	165.81	0.00	36930.88	3417.12	0.00	33513.75
311+00	31100.00	50.00	147.37	117.13	0.00	302.06	203.81	0.00	37232.93	3620.94	0.00	33612.00
311+50	31150.00	50.00	116.48	130.61	0.00	244.31	229.39	0.00	37477.24	3850.33	0.00	33626.91
312+00	31200.00	50.00	85.14	179.39	0.00	186.69	287.04	0.00	37663.92	4137.36	0.00	33526.56
312+50	31250.00	50.00	33.16	195.30	0.00	109.54	346.94	0.00	37773.46	4484.30	0.00	33289.16
313+00	31300.00	50.00	169.63	129.16	0.00	187.77	300.43	0.00	37961.23	4784.72	0.00	33176.50
313+50	31350.00	50.00	230.36	45.43	0.00	370.36	161.66	0.00	38331.59	4946.38	0.00	33385.21
314+00	31400.00	50.00	133.87	83.63	0.00	337.25	119.50	0.00	38668.84	5065.88	0.00	33602.96
314+50	31450.00	50.00	116.07	0.00	0.00	231.43	77.44	0.00	38900.26	5143.32	0.00	33756.95
315+00	31500.00	50.00	76.72	39.73	0.00	178.51	36.79	0.00	39078.77	5180.10	0.00	33898.67
315+50	31550.00	50.00	160.82	14.09	0.00	219.94	49.83	0.00	39298.72	5229.94	0.00	34068.78
316+00	31600.00	50.00	166.55	22.55	0.00	303.12	33.93	0.00	39601.84	5263.86	0.00	34337.98
316+50	31650.00	50.00	163.59	64.70	0.00	305.69	80.79	0.00	39907.52	5344.65	0.00	34562.87
317+00	31700.00	50.00	170.38	20.49	0.00	309.23	78.88	0.00	40216.76	5423.53	0.00	34793.23
317+50	31750.00	50.00	201.31	0.00	0.00	344.16	18.97	0.00	40560.91	5442.50	0.00	35118.41
318+00	31800.00	50.00	264.80	42.47	0.00	431.58	39.32	0.00	40992.50	5481.83	0.00	35510.67
318+50	31850.00	50.00	224.03	152.36	0.00	452.62	180.40	0.00	41445.12	5662.22	0.00	35782.89
319+00	31900.00	50.00	168.95	58.08	0.00	363.87	194.85	0.00	41808.99	5857.08	0.00	35951.91
319+50	31950.00	50.00	346.74	66.08	0.00	477.49	114.96	0.00	42286.48	5972.04	0.00	36314.44
320+00	32000.00	50.00	215.54	124.22	0.00	520.63	176.20	0.00	42807.11	6148.24	0.00	36658.87
320+50	32050.00	50.00	210.77	38.71	0.00	394.73	150.86	0.00	43201.84	6299.10	0.00	36902.74
321+00	32100.00	50.00	207.31	31.19	0.00	387.11	64.72	0.00	43588.95	6363.83	0.00	37225.12
321+50	32150.00	50.00	145.15	2.28	0.00	326.35	30.99	0.00	43915.30	6394.82	0.00	37520.49
322+00	32200.00	50.00	65.32	0.00	0.00	194.88	2.11	0.00	44110.18	6396.93	0.00	37713.25
322+50	32250.00	50.00	30.61	0.00	0.00	88.82	0.00	0.00	44199.01	6396.93	0.00	37802.08
323+00	32300.00	50.00	124.80	5.63	0.00	143.90	5.21	0.00	44342.90	6402.14	0.00	37940.76
323+50	32350.00	50.00	146.88	0.00	0.00	251.56	5.21	0.00	44594.46	6407.35	0.00	38187.11
324+00	32400.00	50.00	0.00	0.00	0.00	136.00	0.00	0.00	44730.46	6407.35	0.00	38323.11
324+50	32450.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	44730.46	6407.35	0.00	38323.11
325+00	32500.00	50.00	351.16	14.17	0.00	325.15	13.12	0.00	45055.61	6420.47	0.00	38635.13
325+50	32550.00	50.00	105.82	2.15	0.00	423.13	15.11	0.00	45478.74	6435.58	0.00	39043.15
326+00	32600.00	50.00	79.19	0.00	0.00	171.31	1.99	0.00	45650.04	6437.58	0.00	39212.47

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Division 3 STH 20

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
326+50		32650.00	50.00	12.98	1.11	0.00	85.34	1.03	0.00	45735.39	6438.60	0.00	39296.78
327+00		32700.00	50.00	0.00	14.50	0.00	12.02	14.45	0.00	45747.40	6453.06	0.00	39294.35
327+50		32750.00	50.00	0.00	12.17	0.00	0.00	24.69	0.00	45747.40	6477.75	0.00	39269.65
328+00		32800.00	50.00	0.00	0.00	0.00	0.00	11.27	0.00	45747.40	6489.02	0.00	39258.38
328+50		32850.00	50.00	65.56	0.07	0.00	60.70	0.06	0.00	45808.11	6489.08	0.00	39319.02
329+00		32900.00	50.00	30.39	0.43	0.00	88.84	0.46	0.00	45896.95	6489.55	0.00	39407.40
329+50		32950.00	50.00	104.00	0.00	0.00	124.44	0.40	0.00	46021.39	6489.95	0.00	39531.44
330+00		33000.00	50.00	100.77	3.11	0.00	189.60	2.88	0.00	46210.99	6492.83	0.00	39718.16
330+50		33050.00	50.00	12.22	2.22	0.00	104.62	4.94	0.00	46315.61	6497.76	0.00	39817.85
331+00		33100.00	50.00	25.50	0.09	0.00	34.93	2.14	0.00	46350.53	6499.90	0.00	39850.63
331+50		33150.00	50.00	28.57	0.00	0.00	50.06	0.08	0.00	46400.60	6499.98	0.00	39900.62
332+00		33200.00	50.00	17.55	0.22	0.00	42.70	0.20	0.00	46443.30	6500.19	0.00	39943.12
332+50		33250.00	50.00	12.19	2.82	0.00	27.54	2.81	0.00	46470.84	6503.00	0.00	39967.84
333+00		33300.00	50.00	13.74	4.01	0.00	24.01	6.32	0.00	46494.85	6509.33	0.00	39985.52
333+50		33350.00	50.00	12.49	0.00	0.00	24.29	3.71	0.00	46519.14	6513.04	0.00	40006.10
334+00		33400.00	50.00	10.35	0.00	0.00	21.15	0.00	0.00	46540.28	6513.04	0.00	40027.25
334+50		33450.00	50.00	0.00	0.00	0.00	9.58	0.00	0.00	46549.87	6513.04	0.00	40036.83
335+00		33500.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	46549.87	6513.04	0.00	40036.83
335+50		33550.00	50.00	10.64	0.00	0.00	9.85	0.00	0.00	46559.72	6513.04	0.00	40046.68
336+00		33600.00	50.00	17.46	0.00	0.00	26.02	0.00	0.00	46585.74	6513.04	0.00	40072.70
336+30	BK	33630.00	30.00	8.02	2.44	0.00	14.16	1.36	0.00	46599.89	6514.39	0.00	40085.50
Column totals							46599.89	6514.39	0.00				

Division 3 RAMP NW

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
864+09 AH	86409.00	0.00	81.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
864+50	86450.00	41.00	79.90	0.00	0.00	122.31	0.00	0.00	122.31	0.00	0.00	122.31
865+00	86500.00	50.00	64.00	0.00	0.00	133.24	0.00	0.00	255.55	0.00	0.00	255.55
865+50	86550.00	50.00	64.00	0.00	0.00	118.52	0.00	0.00	374.07	0.00	0.00	374.07
866+00	86600.00	50.00	64.00	0.00	0.00	118.52	0.00	0.00	492.59	0.00	0.00	492.59
866+50	86650.00	50.00	64.00	0.00	0.00	118.52	0.00	0.00	611.11	0.00	0.00	611.11
867+00	86700.00	50.00	64.00	0.00	0.00	118.52	0.00	0.00	729.62	0.00	0.00	729.62
867+50	86750.00	50.00	58.29	2.80	0.00	113.23	2.59	0.00	842.86	2.59	0.00	840.26
868+00	86800.00	50.00	68.75	6.98	0.00	117.63	9.06	0.00	960.49	11.65	0.00	948.84
868+50	86850.00	50.00	79.14	0.00	0.00	136.94	6.46	0.00	1097.42	18.11	0.00	1079.31
868+51 BK	86851.00	1.00	79.28	0.00	0.00	2.93	0.00	0.00	1100.35	18.11	0.00	1082.24
					Column totals	1100.35	18.11	0.00				

Division 3 RAMP SE

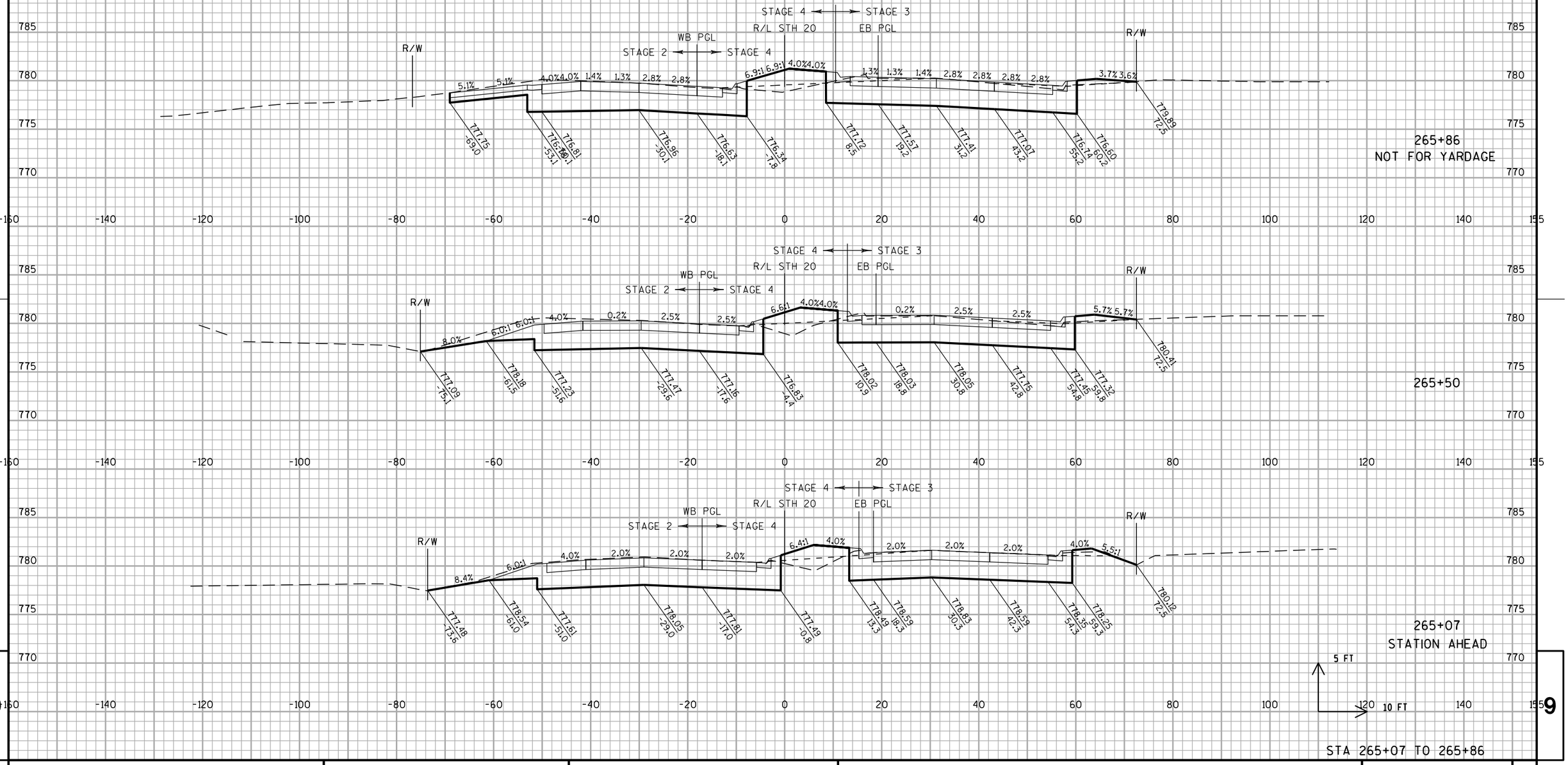
STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	EBS	Cut	Fill	EBS	Cut	Fill	EBS	
855+90 AH	85590.00	0.00	46.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
856+00	85600.00	10.00	31.56	0.00	0.00	14.53	0.00	0.00	14.53	0.00	0.00	14.53
856+50	85650.00	50.00	69.73	0.00	0.00	93.79	0.00	0.00	108.31	0.00	0.00	108.31
857+00	85700.00	50.00	86.02	0.00	0.00	144.21	0.00	0.00	252.53	0.00	0.00	252.53
857+50	85750.00	50.00	100.05	0.00	0.00	172.29	0.00	0.00	424.81	0.00	0.00	424.81
858+00	85800.00	50.00	121.86	0.00	0.00	205.47	0.00	0.00	630.29	0.00	0.00	630.29
858+50	85850.00	50.00	137.55	0.00	0.00	240.19	0.00	0.00	870.48	0.00	0.00	870.48
859+00	85900.00	50.00	153.98	0.00	0.00	269.94	0.00	0.00	1140.42	0.00	0.00	1140.42
859+50	85950.00	50.00	146.64	0.00	0.00	278.35	0.00	0.00	1418.77	0.00	0.00	1418.77
860+00	86000.00	50.00	128.92	0.00	0.00	255.15	0.00	0.00	1673.92	0.00	0.00	1673.92
860+50 BK	86050.00	50.00	205.37	0.00	0.00	309.53	0.00	0.00	1983.44	0.00	0.00	1983.44
					Column totals	1983.44	0.00	0.00				

Division 3 WEST FRONTAGE ROAD

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2857+00	AH	285700.40	0.00	95.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2857+50		285750.00	49.60	87.68	0.49	0.00	167.85	0.45	0.00	167.85	0.45	0.00	167.40
2858+00		285800.00	50.00	80.36	27.38	0.00	155.59	25.81	0.00	323.44	26.26	0.00	297.19
2858+50		285850.00	50.00	72.02	37.31	0.00	141.09	59.90	0.00	464.54	86.15	0.00	378.38
2859+00		285900.00	50.00	141.02	0.00	0.00	197.26	34.55	0.00	661.79	120.70	0.00	541.09
2859+50		285950.00	50.00	95.54	20.34	0.00	219.04	18.83	0.00	880.83	139.53	0.00	741.30
2860+00		286000.00	50.00	86.94	33.34	0.00	168.96	49.70	0.00	1049.79	189.24	0.00	860.56
2860+50		286050.00	50.00	168.31	0.00	0.00	236.34	30.87	0.00	1286.14	220.11	0.00	1066.03
2861+00		286100.00	50.00	92.08	11.97	0.00	241.10	11.08	0.00	1527.24	231.19	0.00	1296.05
2861+50		286150.00	50.00	99.83	8.20	0.00	177.69	18.68	0.00	1704.93	249.87	0.00	1455.07
2862+00		286200.00	50.00	158.60	0.00	0.00	239.29	7.59	0.00	1944.22	257.46	0.00	1686.76
2862+50		286250.00	50.00	183.59	0.00	0.00	316.84	0.00	0.00	2261.06	257.46	0.00	2003.60
2863+00		286300.00	50.00	199.86	0.00	0.00	355.05	0.00	0.00	2616.11	257.46	0.00	2358.65
2863+50		286350.00	50.00	250.14	0.00	0.00	416.67	0.00	0.00	3032.78	257.46	0.00	2775.32
2864+00		286400.00	50.00	365.20	0.00	0.00	569.76	0.00	0.00	3602.54	257.46	0.00	3345.08
2864+30	BK	286430.00	30.00	333.13	3.23	0.00	387.96	1.79	0.00	3990.50	259.25	0.00	3731.24
4865+20	AH	486520.00	0.00	44.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3731.24
4865+50		486550.00	30.00	59.28	0.00	0.00	57.60	0.00	0.00	57.60	0.00	0.00	3788.84
4866+00		486600.00	50.00	62.81	0.00	0.00	113.05	0.00	0.00	170.65	0.00	0.00	3901.89
4866+50		486650.00	50.00	68.37	0.00	0.00	121.46	0.00	0.00	292.11	0.00	0.00	4023.35
4867+00		486700.00	50.00	79.08	0.00	0.00	136.53	0.00	0.00	428.64	0.00	0.00	4159.88
4867+50		486750.00	50.00	84.11	0.00	0.00	151.10	0.00	0.00	579.74	0.00	0.00	4310.98
4868+00	BK	486799.55	49.55	48.53	0.00	0.00	121.71	0.00	0.00	701.45	0.00	0.00	4432.69
			Column totals				4691.94	259.25	0.00				

Division 3 EAST FRONTAGE ROAD

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
3852+25 AH	385225.40	0.00	154.32	10.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3852+50	385250.00	24.60	163.16	2.58	0.00	144.63	6.02	0.00	144.63	6.02	0.00	138.61
3853+00	385300.00	50.00	158.44	0.00	0.00	297.78	2.39	0.00	442.41	8.41	0.00	434.00
3853+50	385350.00	50.00	148.13	0.00	0.00	283.86	0.00	0.00	726.27	8.41	0.00	717.86
3854+00	385400.00	50.00	164.26	0.00	0.00	289.25	0.00	0.00	1015.52	8.41	0.00	1007.11
3854+50	385450.00	50.00	171.24	0.00	0.00	310.65	0.00	0.00	1326.17	8.41	0.00	1317.76
3855+00	385500.00	50.00	165.27	1.37	0.00	311.58	1.27	0.00	1637.75	9.68	0.00	1628.07
3855+50	385550.00	50.00	143.49	2.39	0.00	285.89	3.48	0.00	1923.64	13.16	0.00	1910.48
3856+00	385600.00	50.00	149.38	0.20	0.00	271.18	2.40	0.00	2194.81	15.56	0.00	2179.26
3856+50	385650.00	50.00	163.94	0.23	0.00	290.11	0.40	0.00	2484.93	15.96	0.00	2468.97
3857+00	385700.00	50.00	188.42	3.61	0.00	326.26	3.56	0.00	2811.19	19.51	0.00	2791.67
3857+50	385750.00	50.00	194.38	8.40	0.00	354.44	11.12	0.00	3165.63	30.63	0.00	3135.00
3858+00	385800.00	50.00	309.39	14.18	0.00	466.45	20.91	0.00	3632.08	51.54	0.00	3580.54
3858+10 BK	385810.00	10.00	334.25	28.20	0.00	119.19	7.85	0.00	3751.28	59.39	0.00	3691.89
5859+96 AH	585996.00	0.00	149.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3691.89
5860+00	586000.00	4.00	150.72	0.00	0.00	22.22	0.00	0.00	22.22	0.00	0.00	3714.10
5860+50	586050.00	50.00	153.32	0.00	0.00	281.52	0.00	0.00	303.73	0.00	0.00	3995.62
5861+00	586100.00	50.00	164.34	0.00	0.00	294.13	0.00	0.00	597.86	0.00	0.00	4289.75
5861+50	586150.00	50.00	167.43	0.00	0.00	307.19	0.00	0.00	905.06	0.00	0.00	4596.95
5862+00	586200.00	50.00	149.04	0.00	0.00	293.03	0.00	0.00	1198.09	0.00	0.00	4889.97
5862+50	586250.00	50.00	147.58	0.00	0.00	274.65	0.00	0.00	1472.73	0.00	0.00	5164.62
5863+00	586300.00	50.00	135.04	0.00	0.00	261.69	0.00	0.00	1734.42	0.00	0.00	5426.31
5863+14 BK	586314.00	14.00	124.68	0.00	0.00	67.33	0.00	0.00	1801.75	0.00	0.00	5493.64
Column totals						5553.03	59.39	0.00				

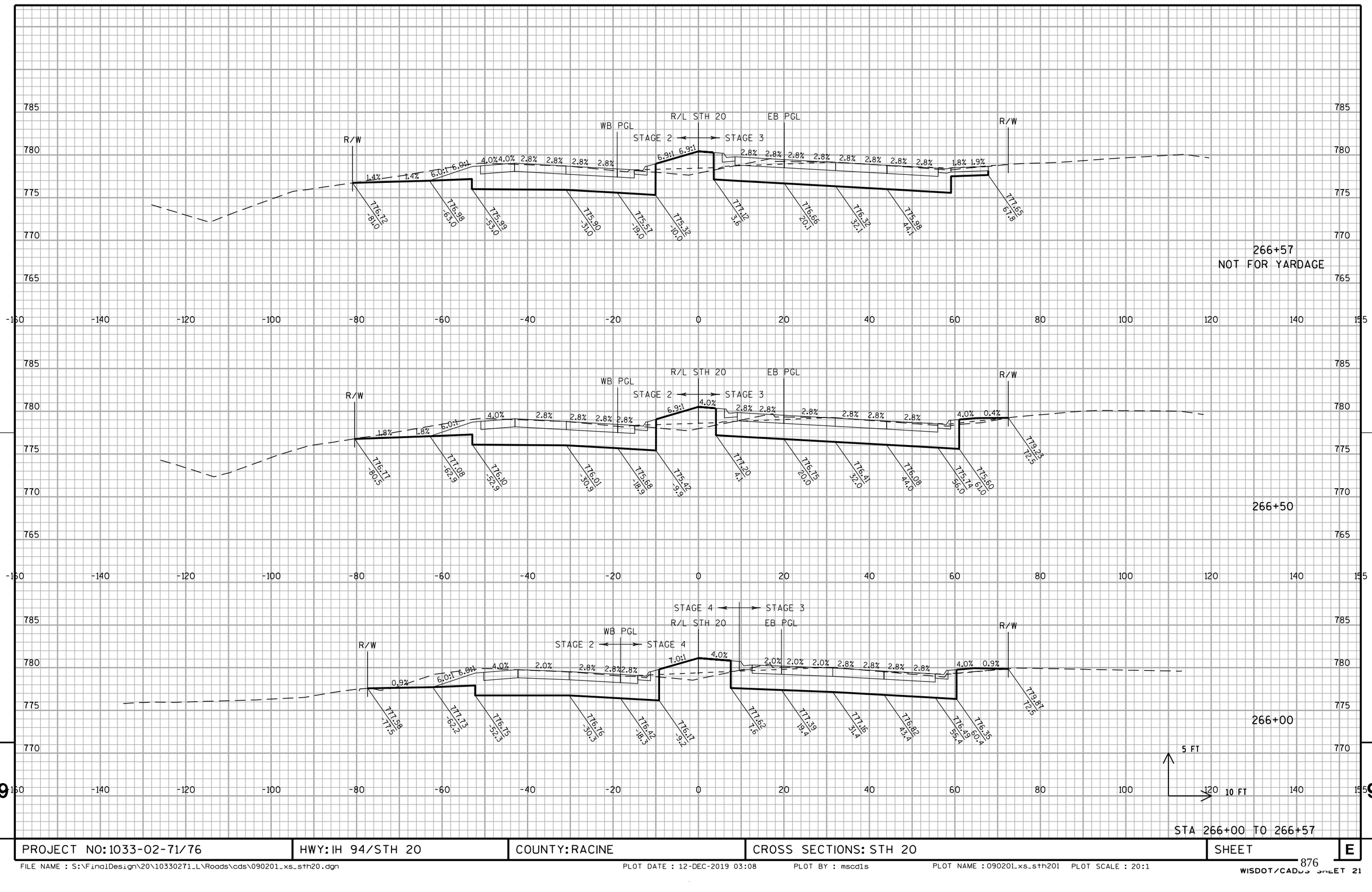


9

9

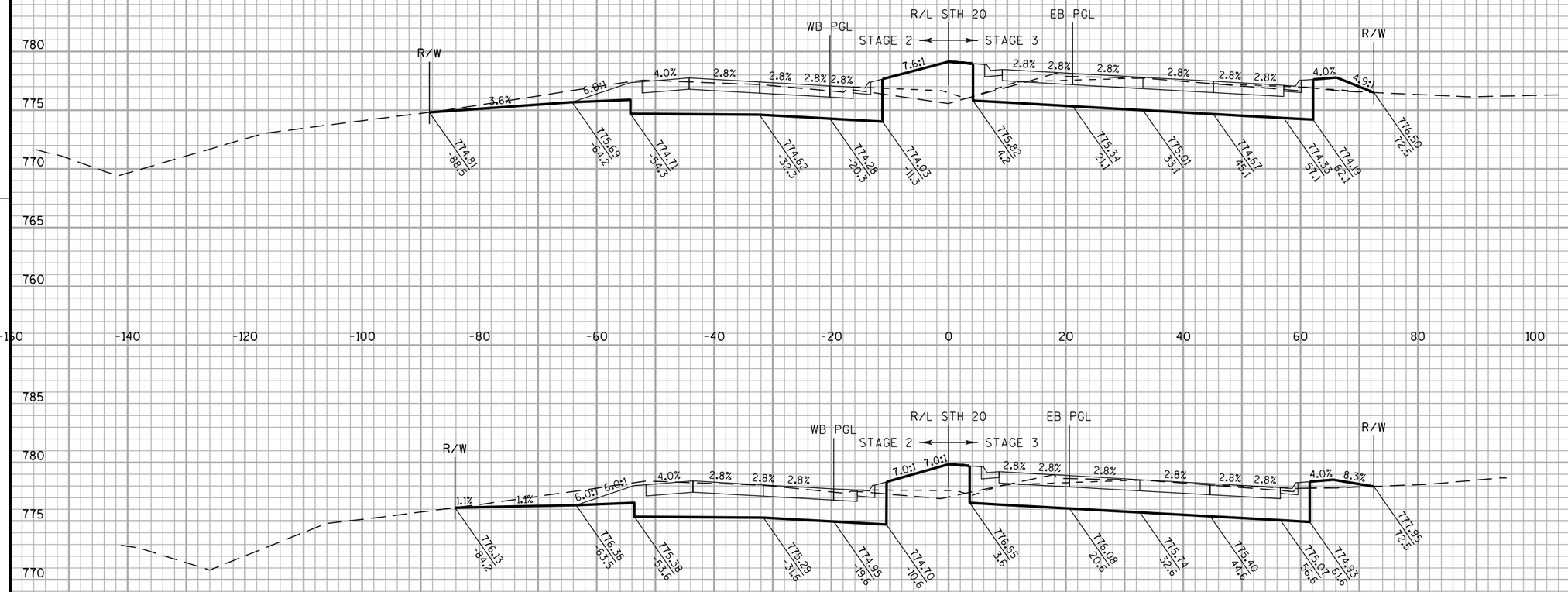
STA 265+07 TO 265+86

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

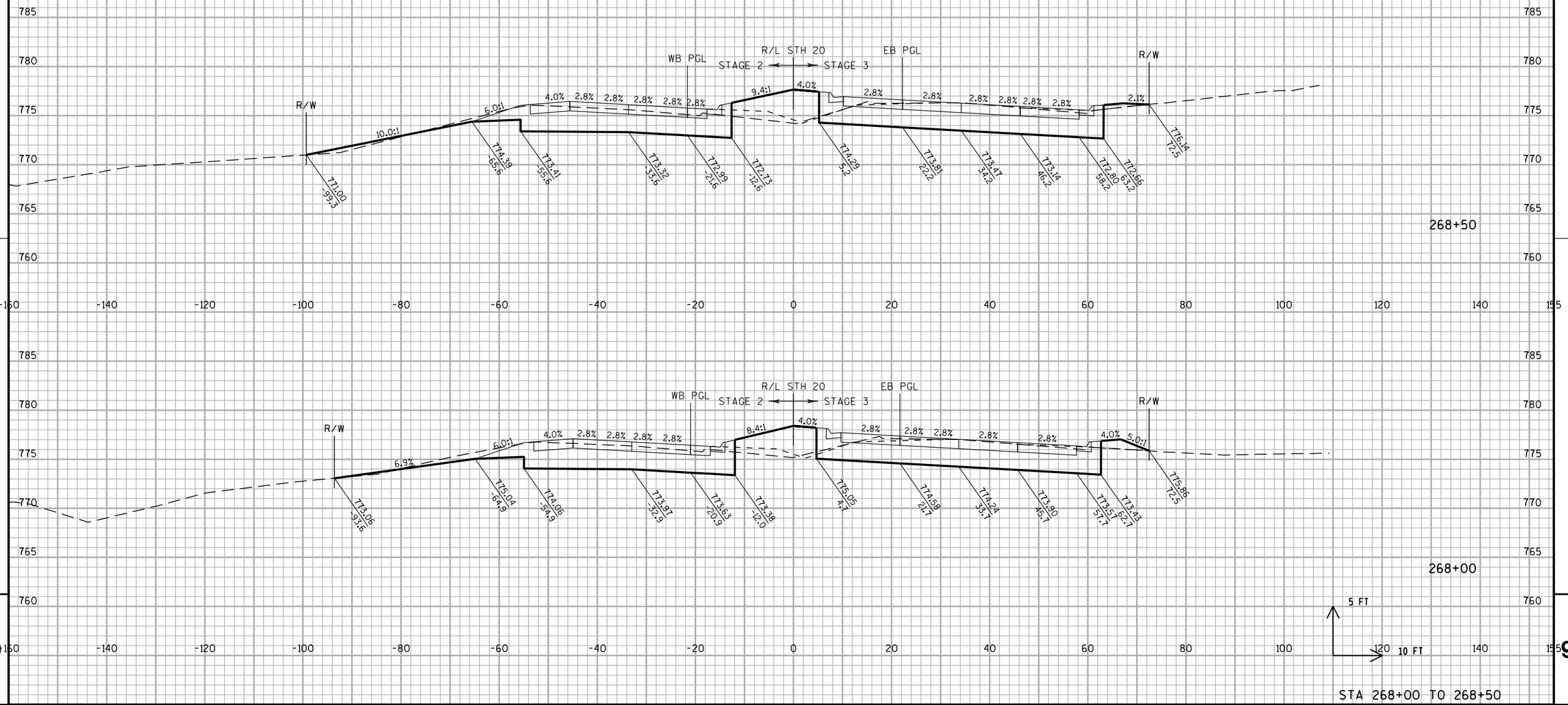


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:08 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth201 PLOT SCALE : 20:1

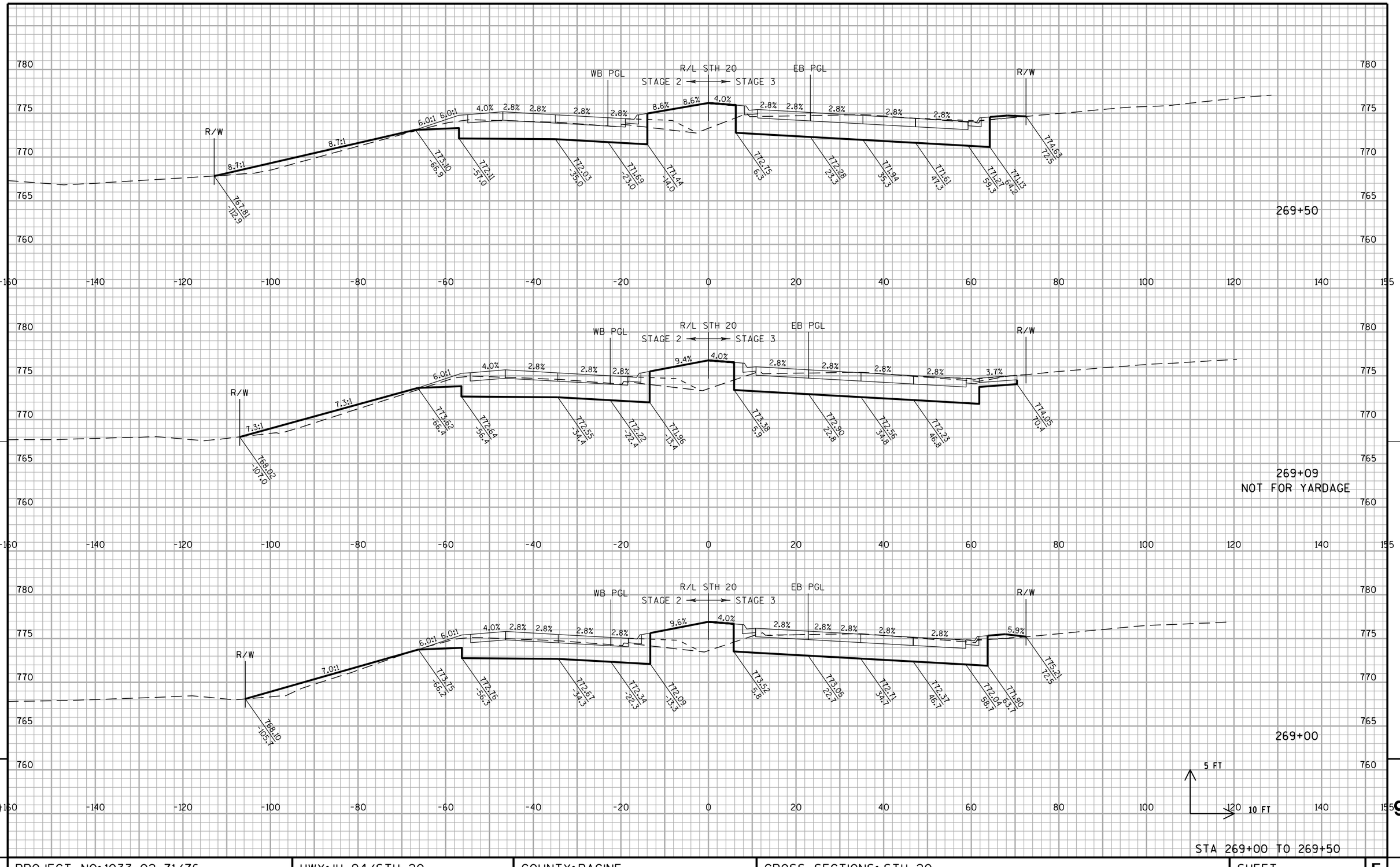


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

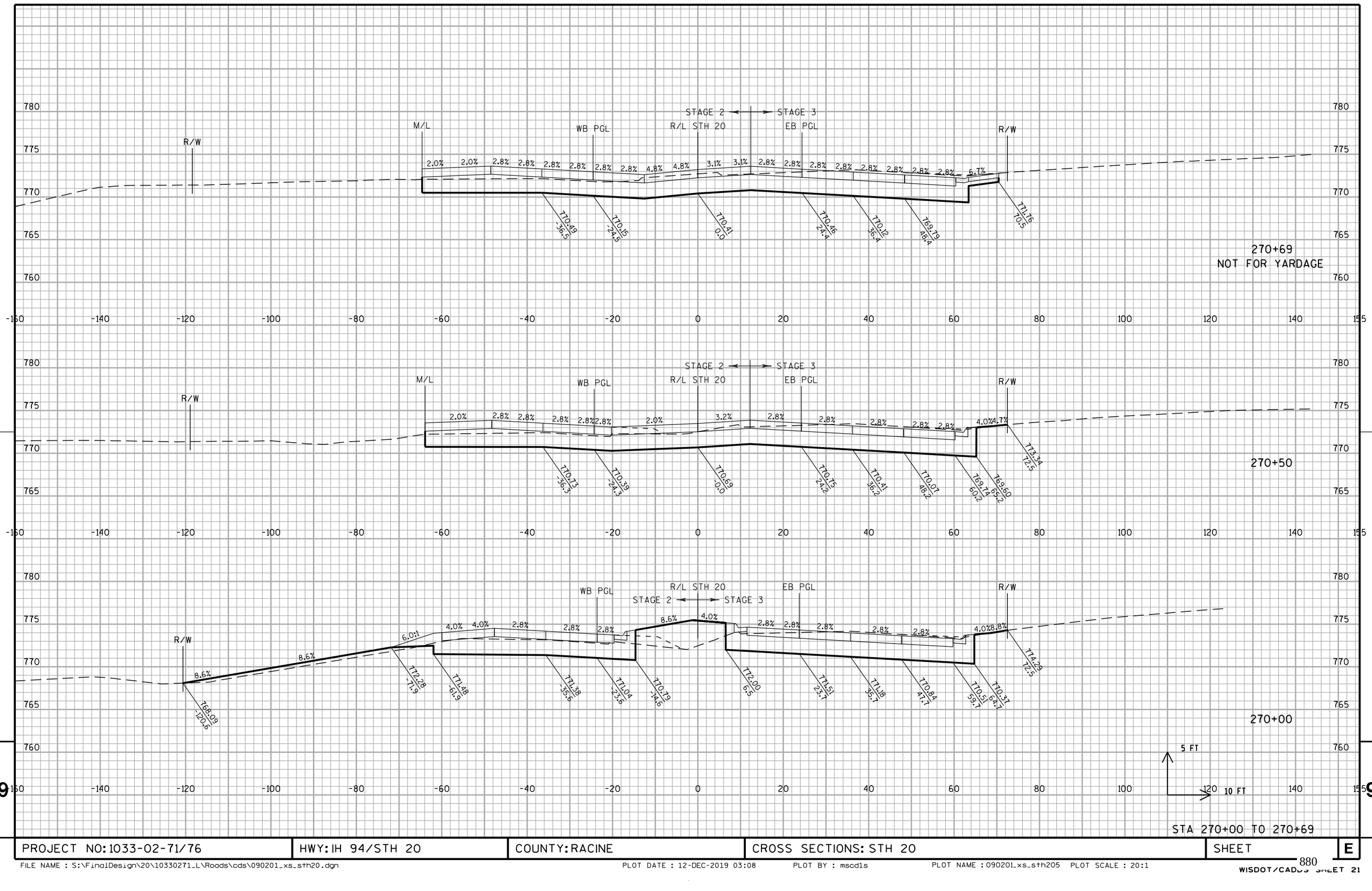


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:08 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth203 PLOT SCALE : 20:1

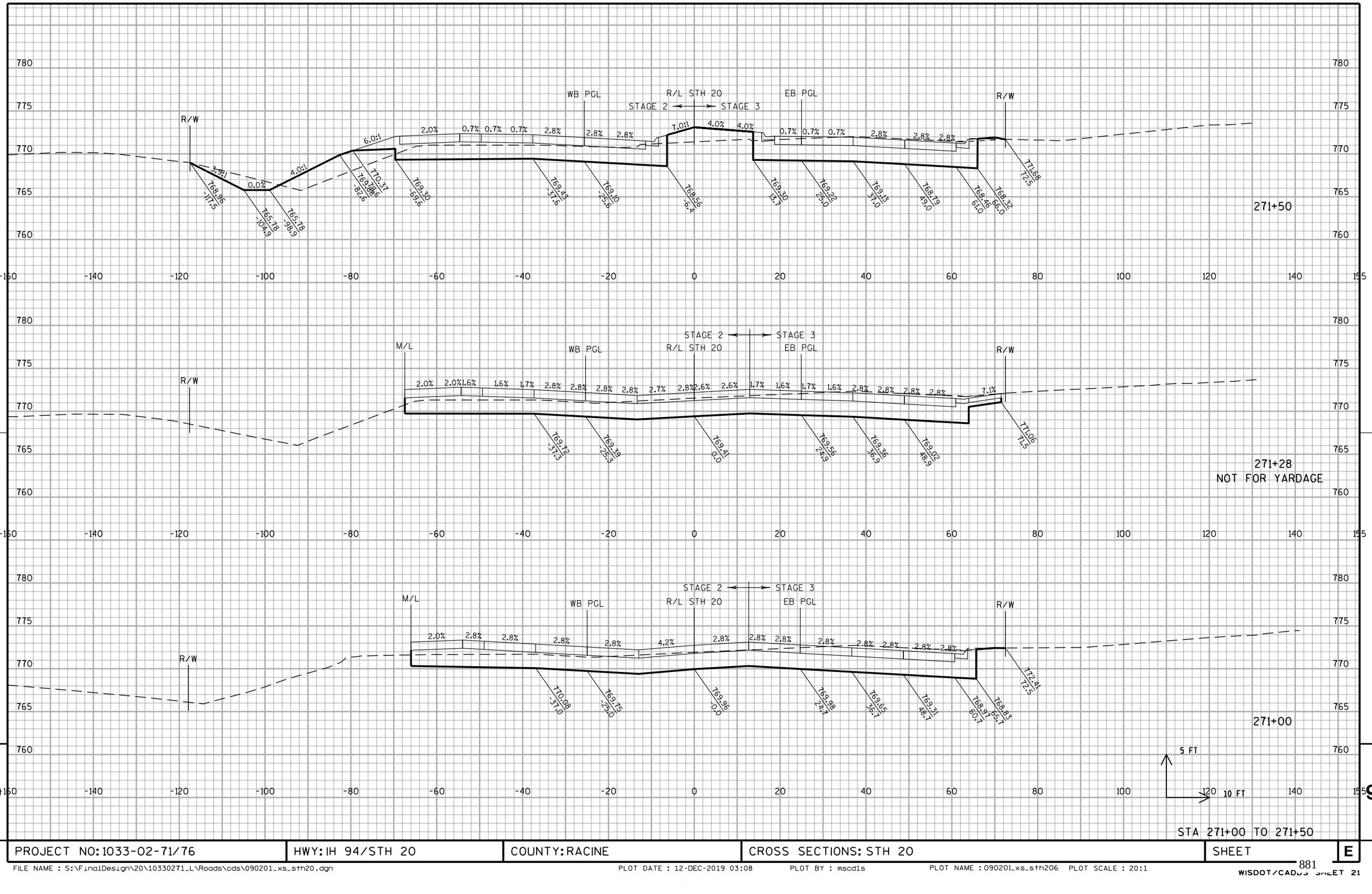


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:08 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth205 PLOT SCALE : 20:1

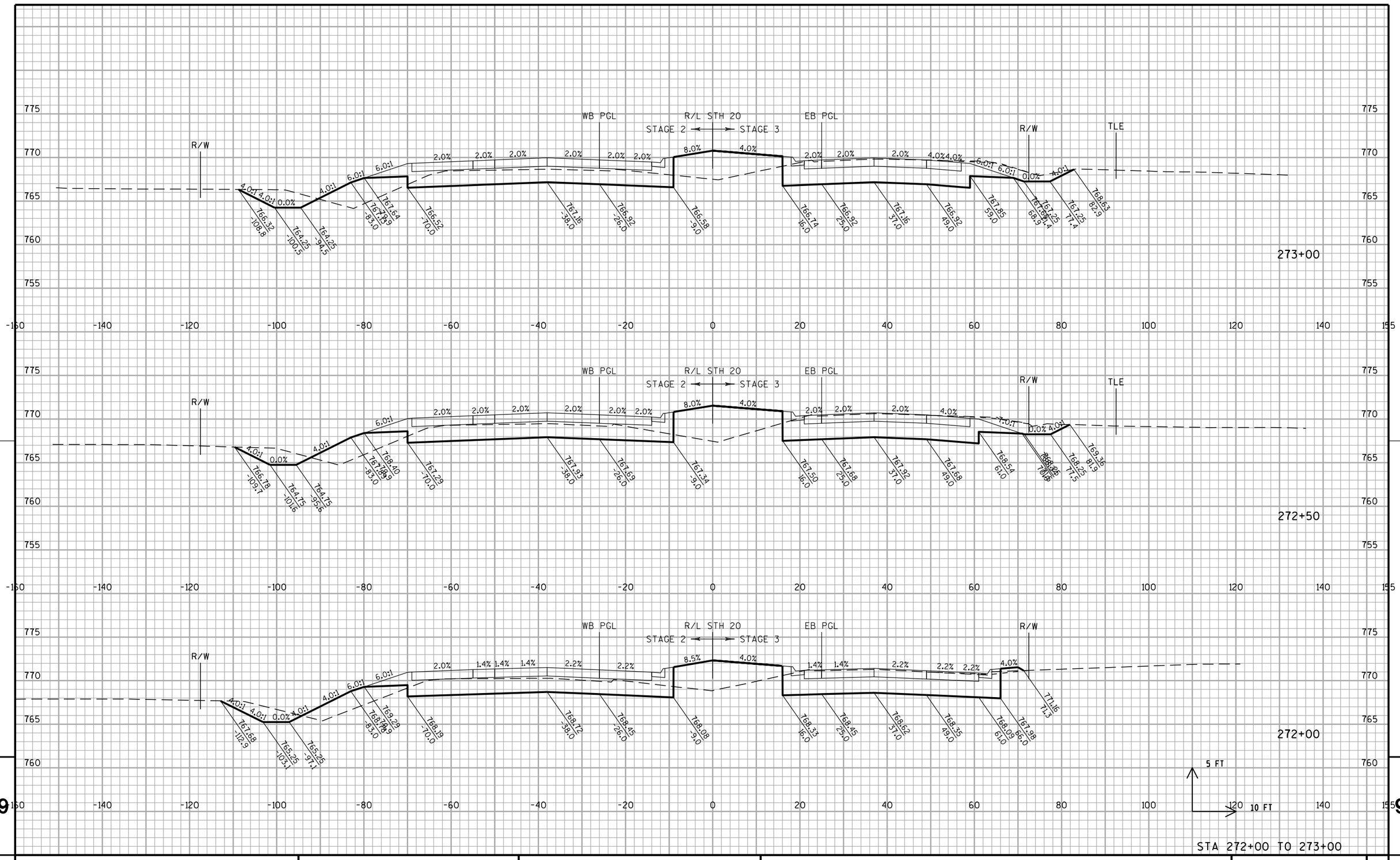


STA 271+00 TO 271+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:08 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth206 PLOT SCALE : 20:1

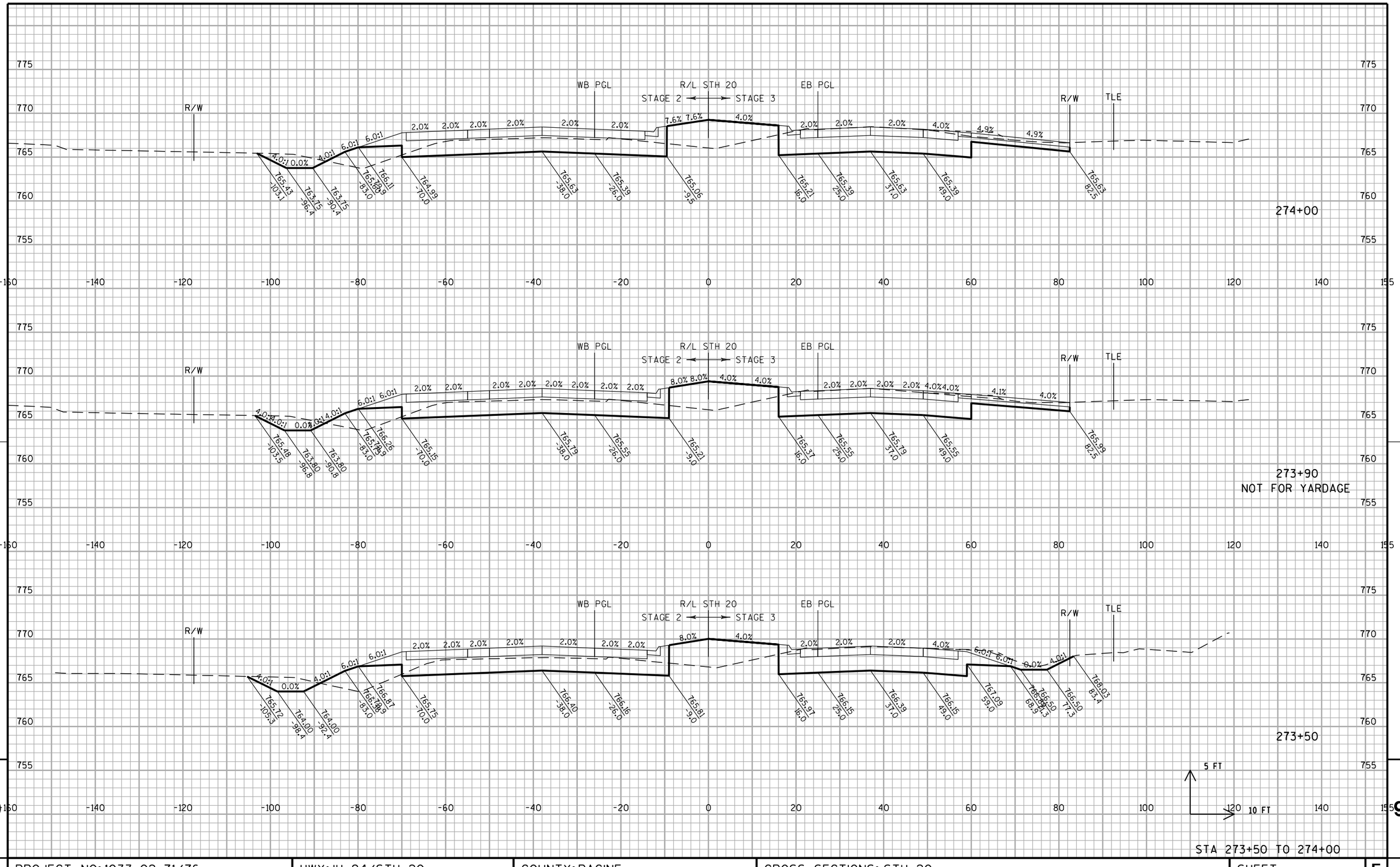
WISDOT/CADDS SHEET 21



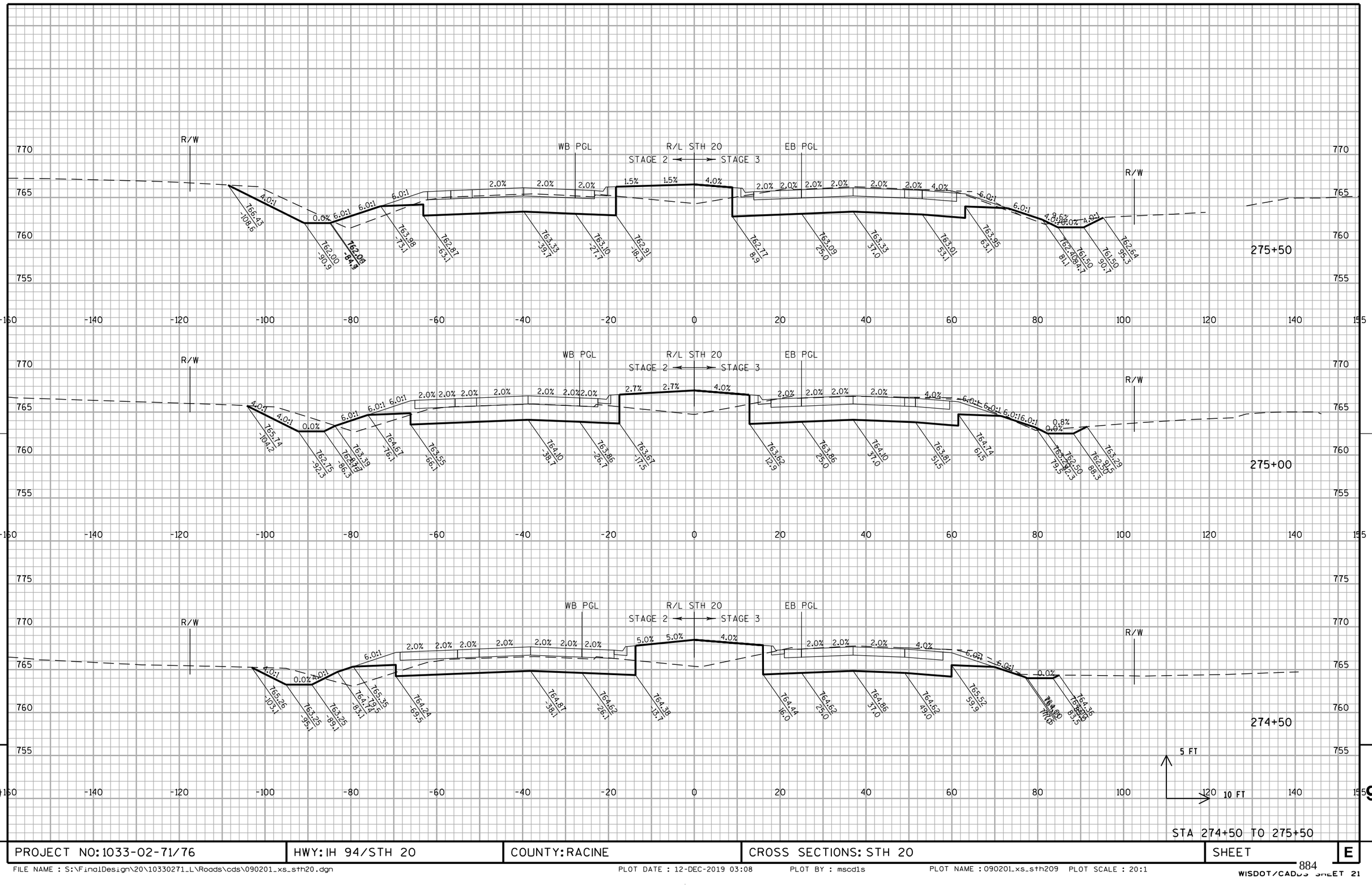
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:08 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth207 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET E

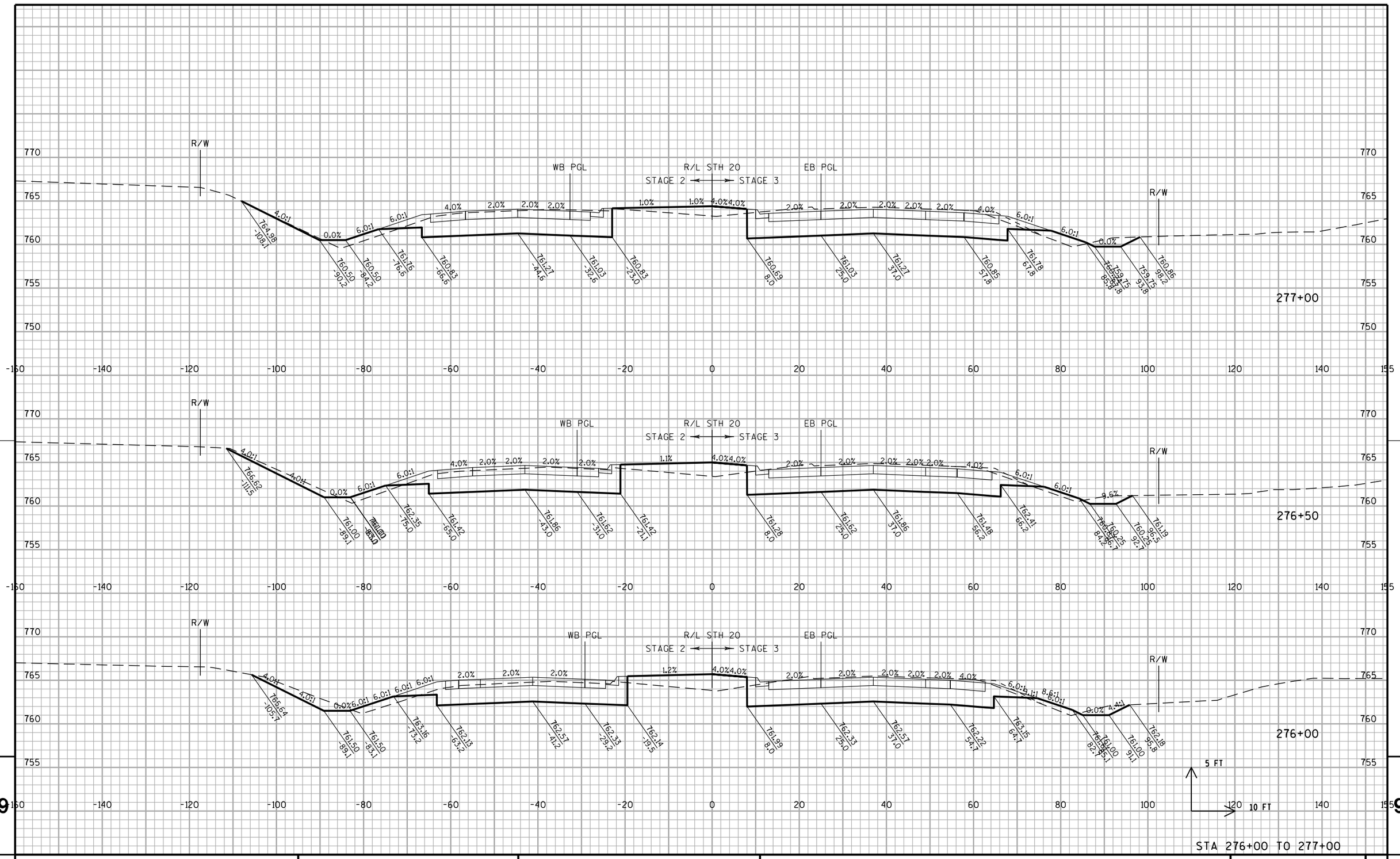


STA 274+50 TO 275+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

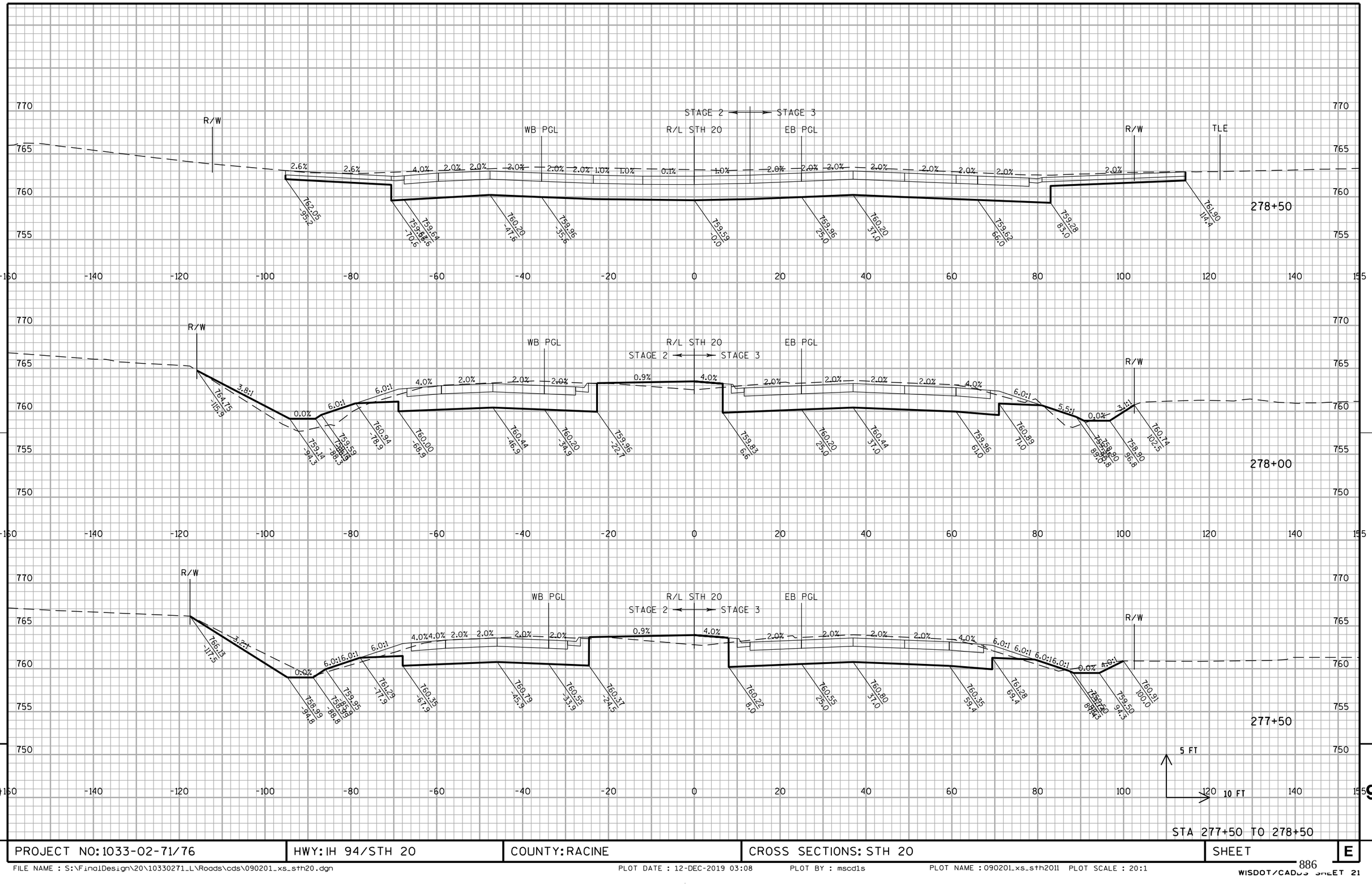
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WISDOT/CADDS SHEET 21

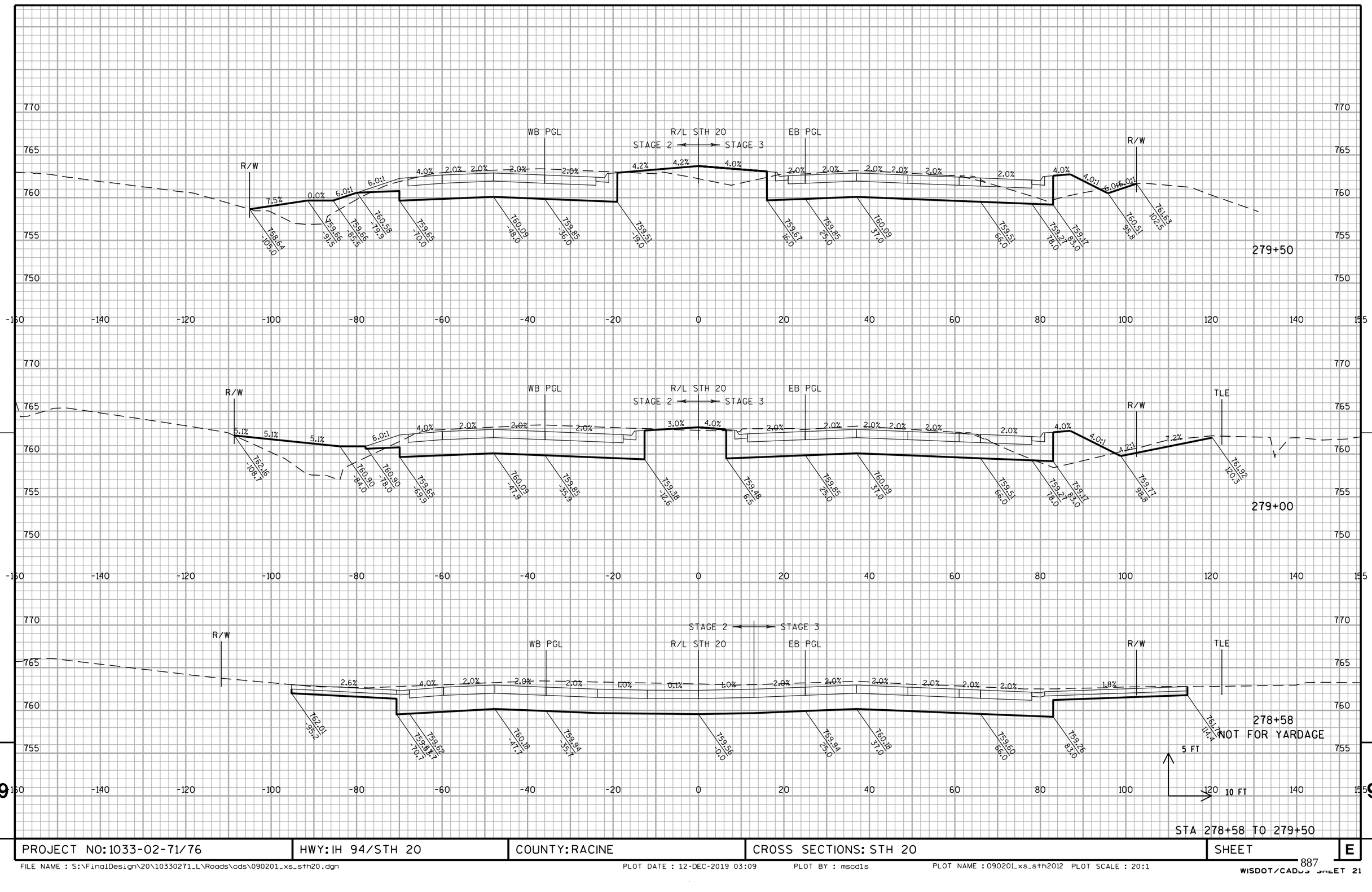


STA 276+00 TO 277+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E



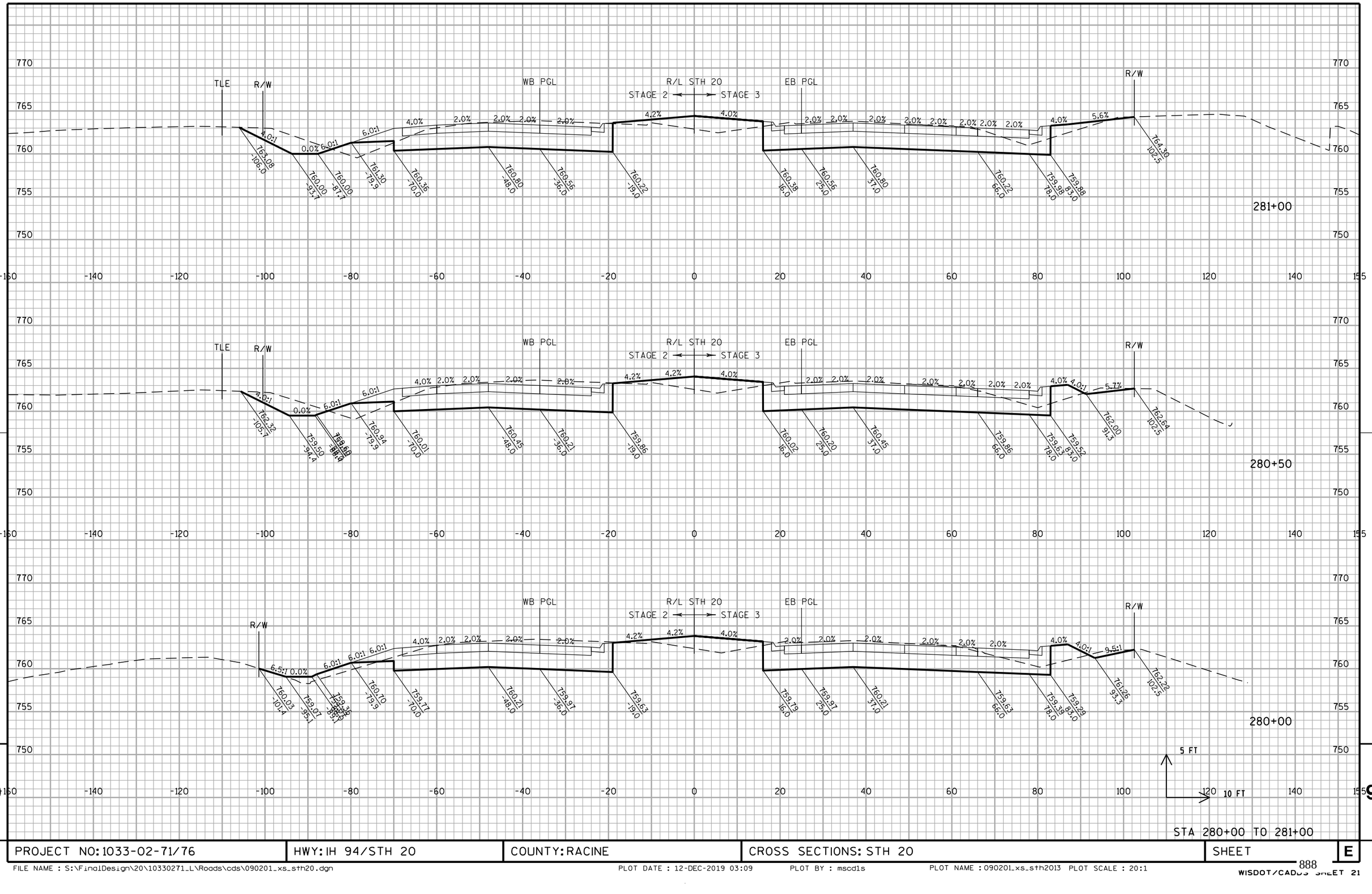
9

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

9

STA 278+58 TO 279+50

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:09 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2012 PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

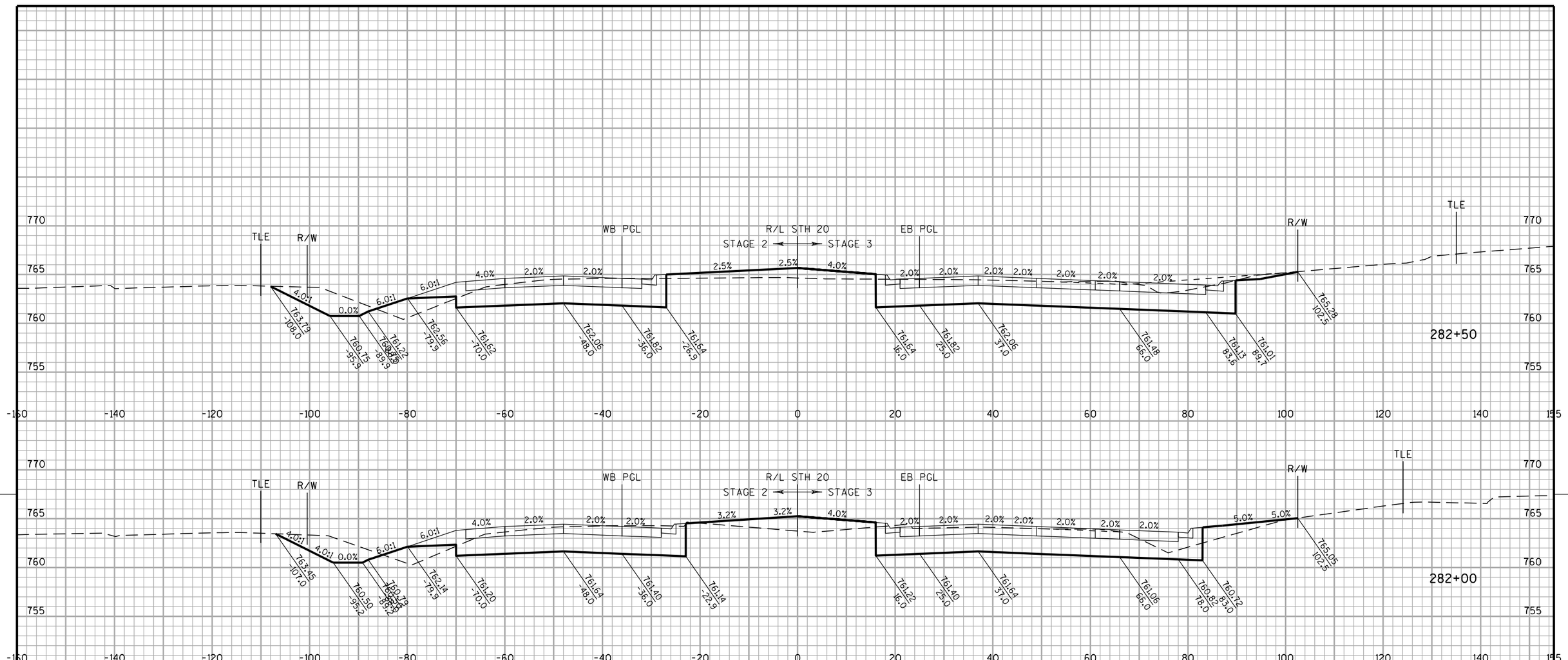


STA 280+00 TO 281+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:09 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2013 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

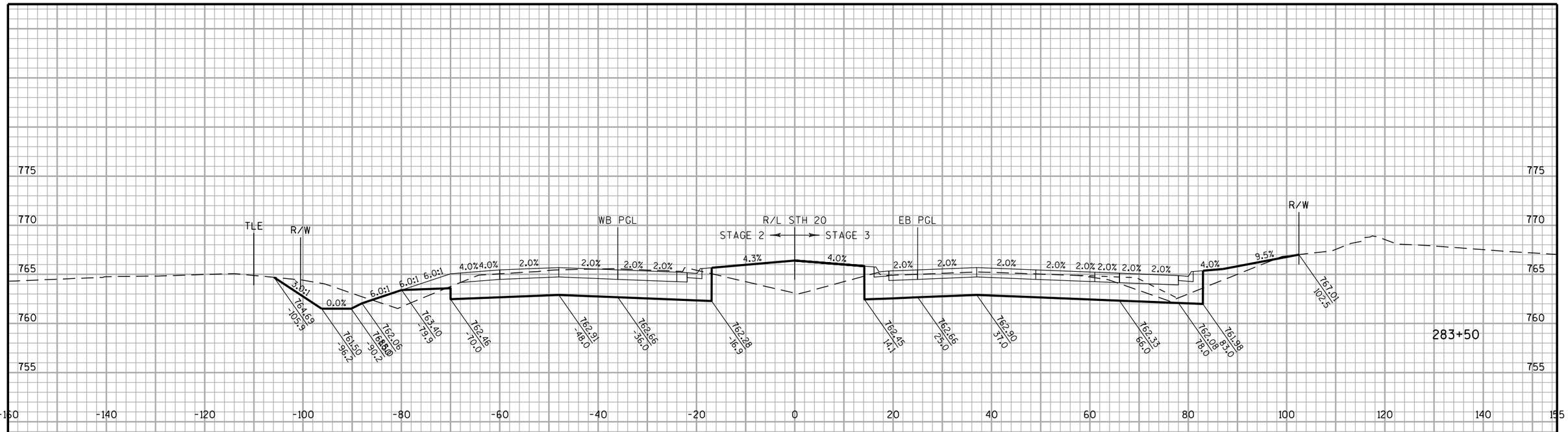


STA 281+50 TO 282+50

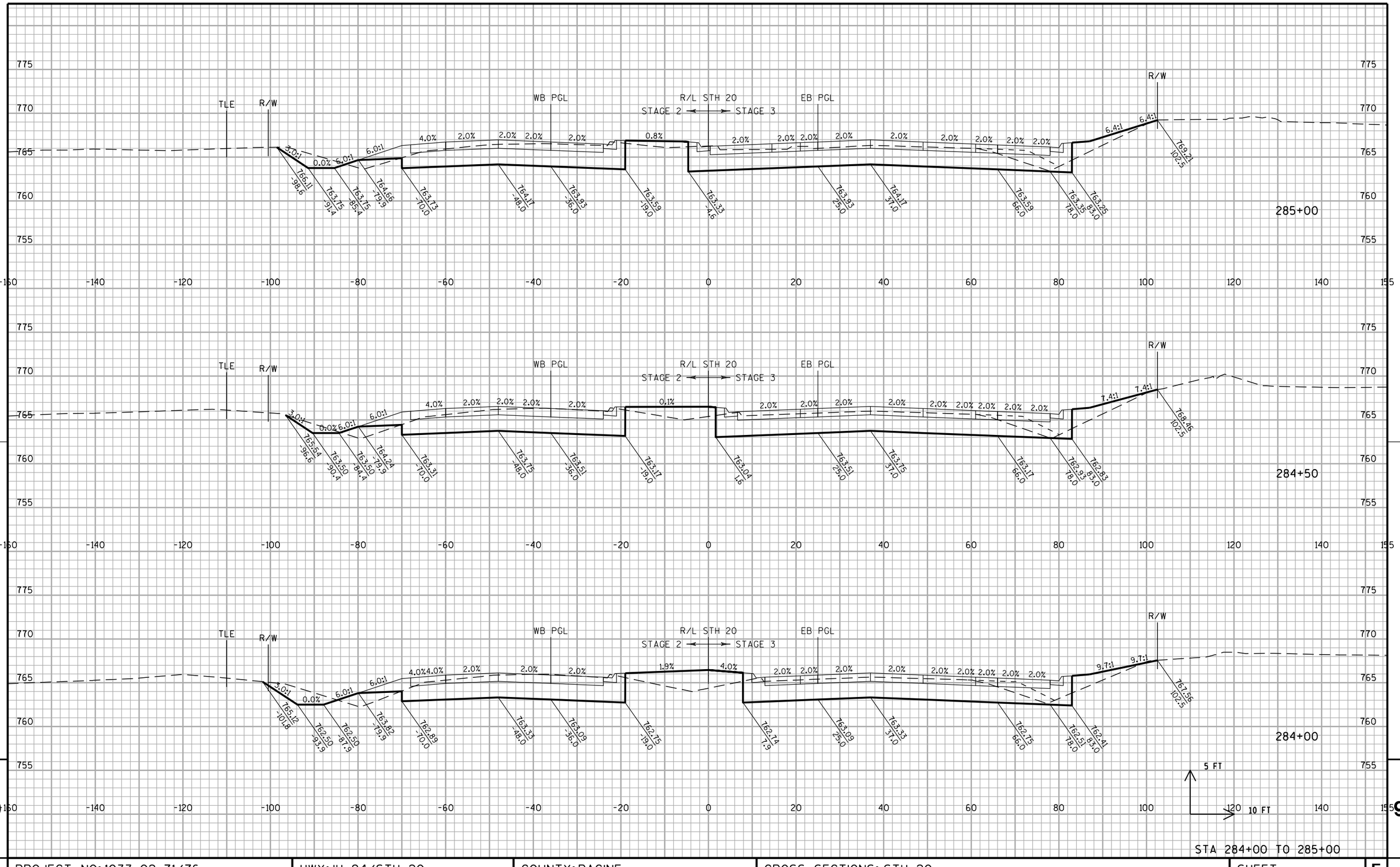
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:09 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2014 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

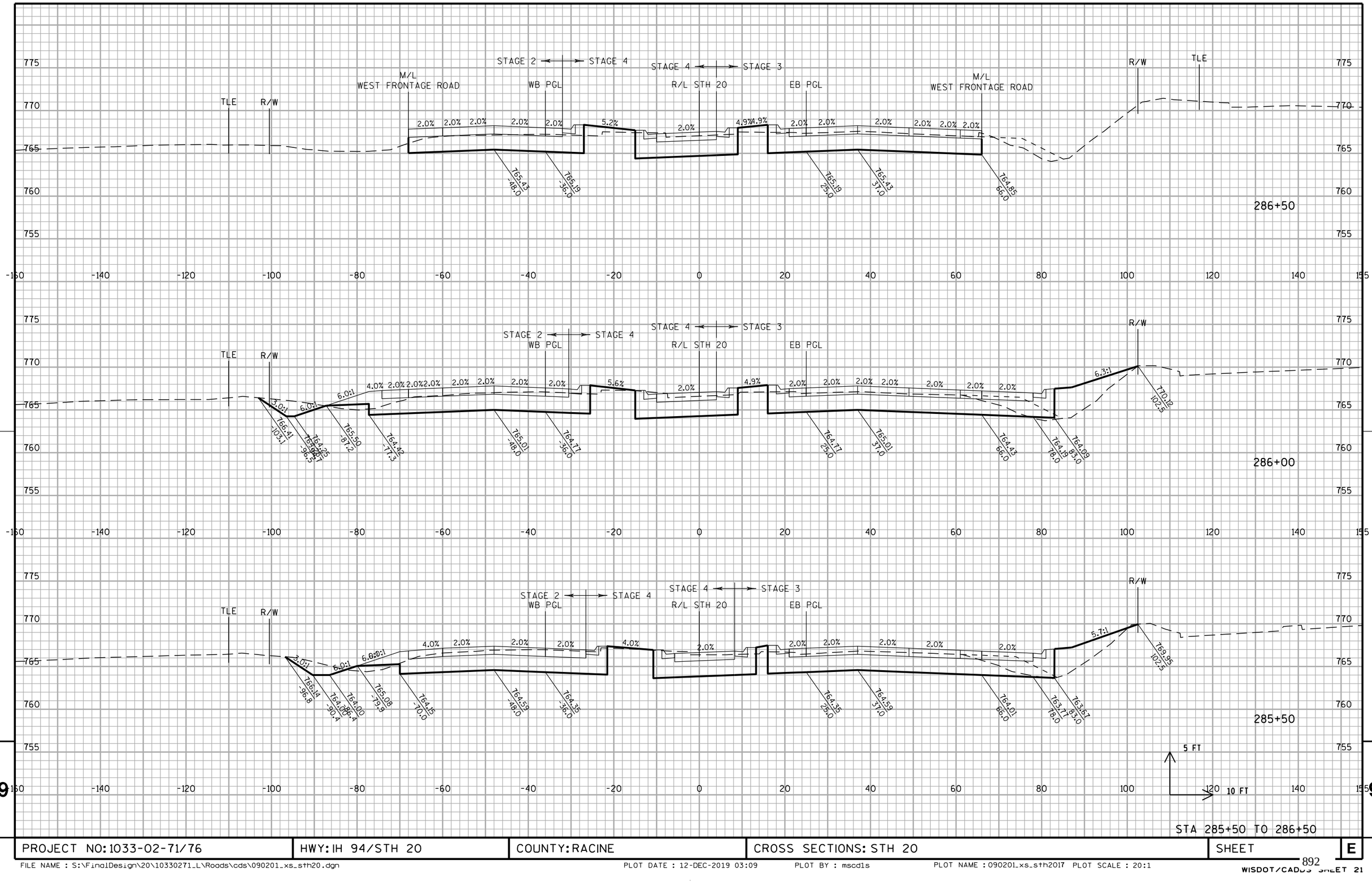


9

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

STA 284+00 TO 285+00

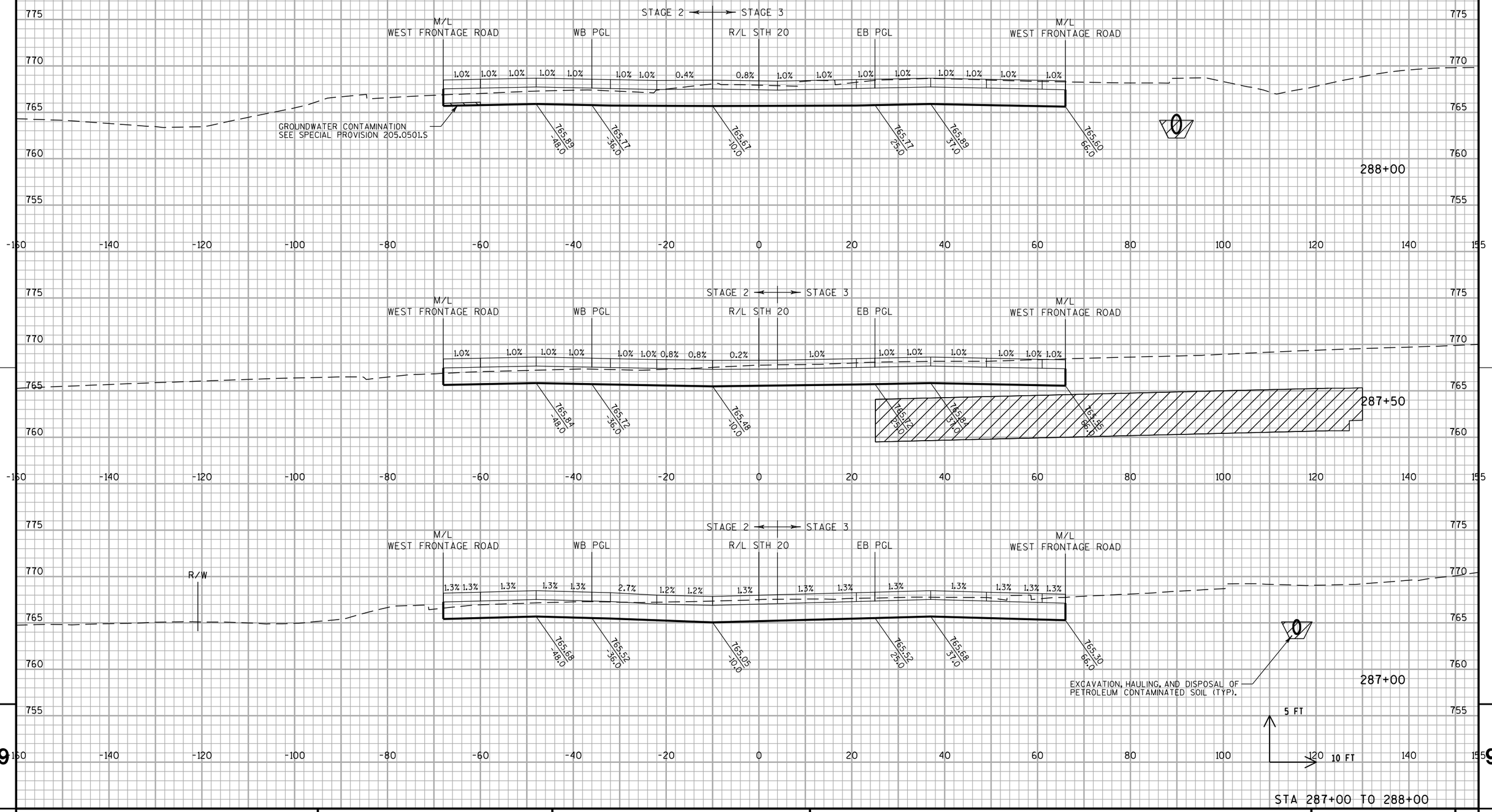
9



STA 285+50 TO 286+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

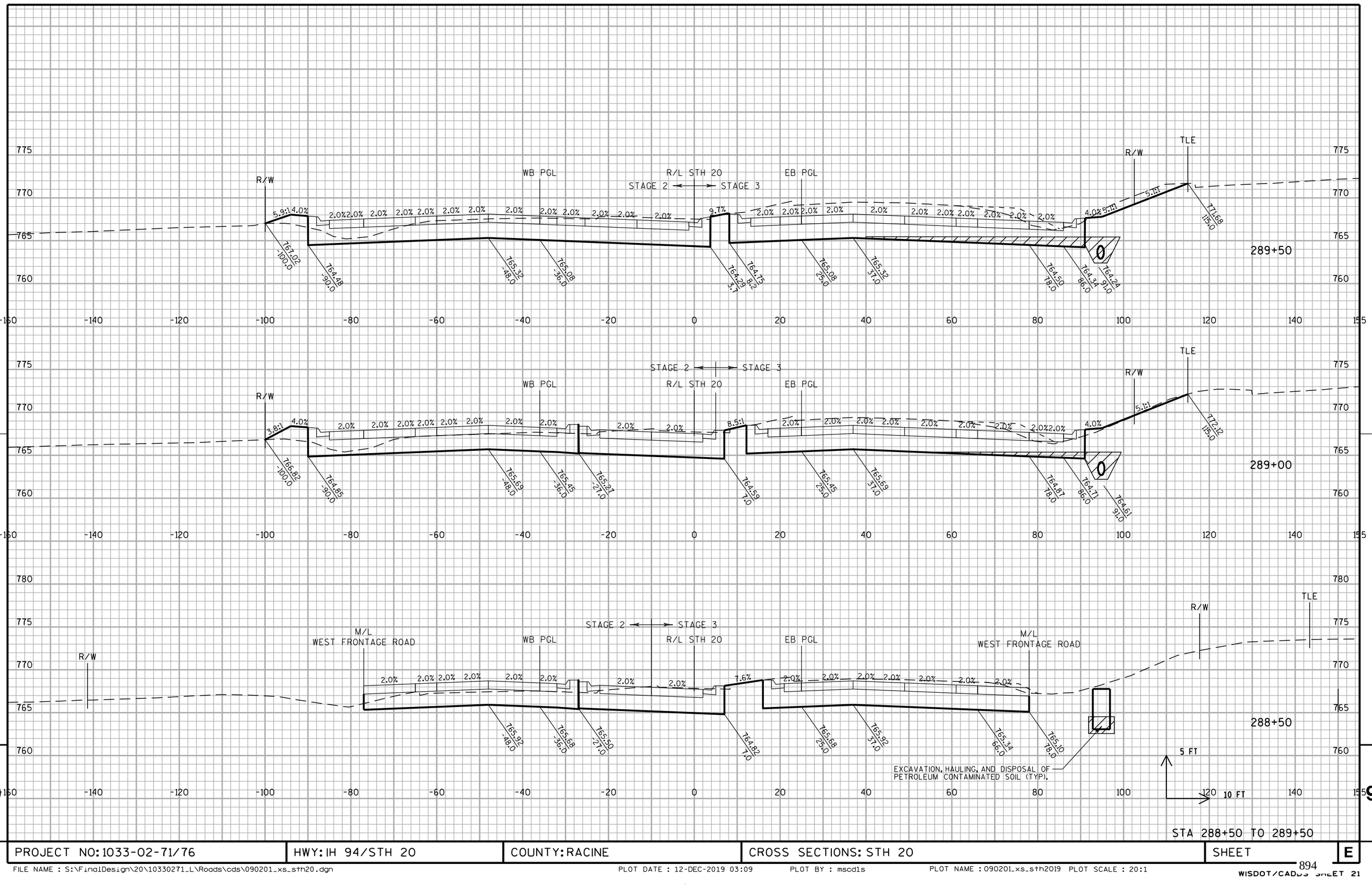
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STA 287+00 TO 288+00

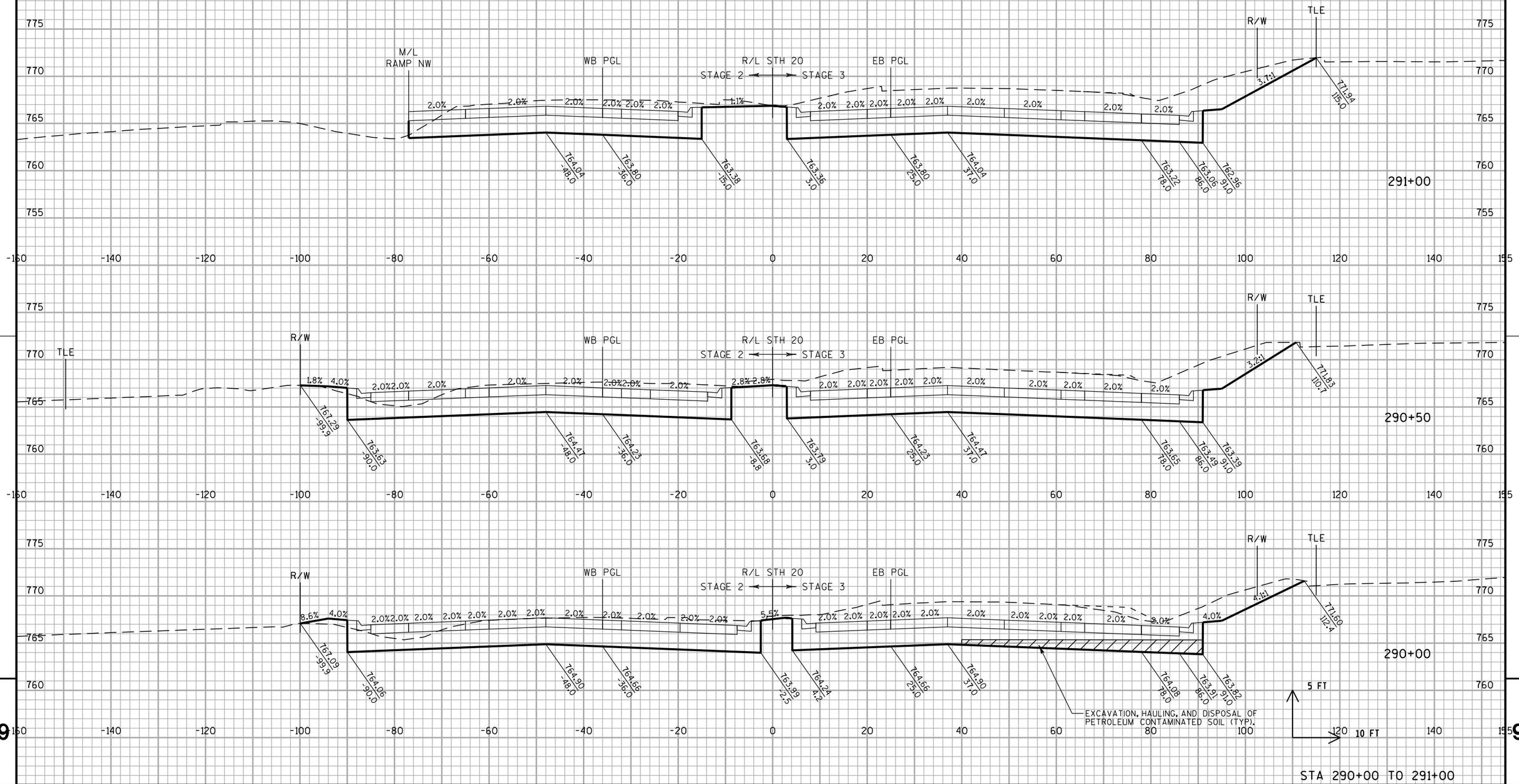
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:09 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2018 PLOT SCALE : 20:1

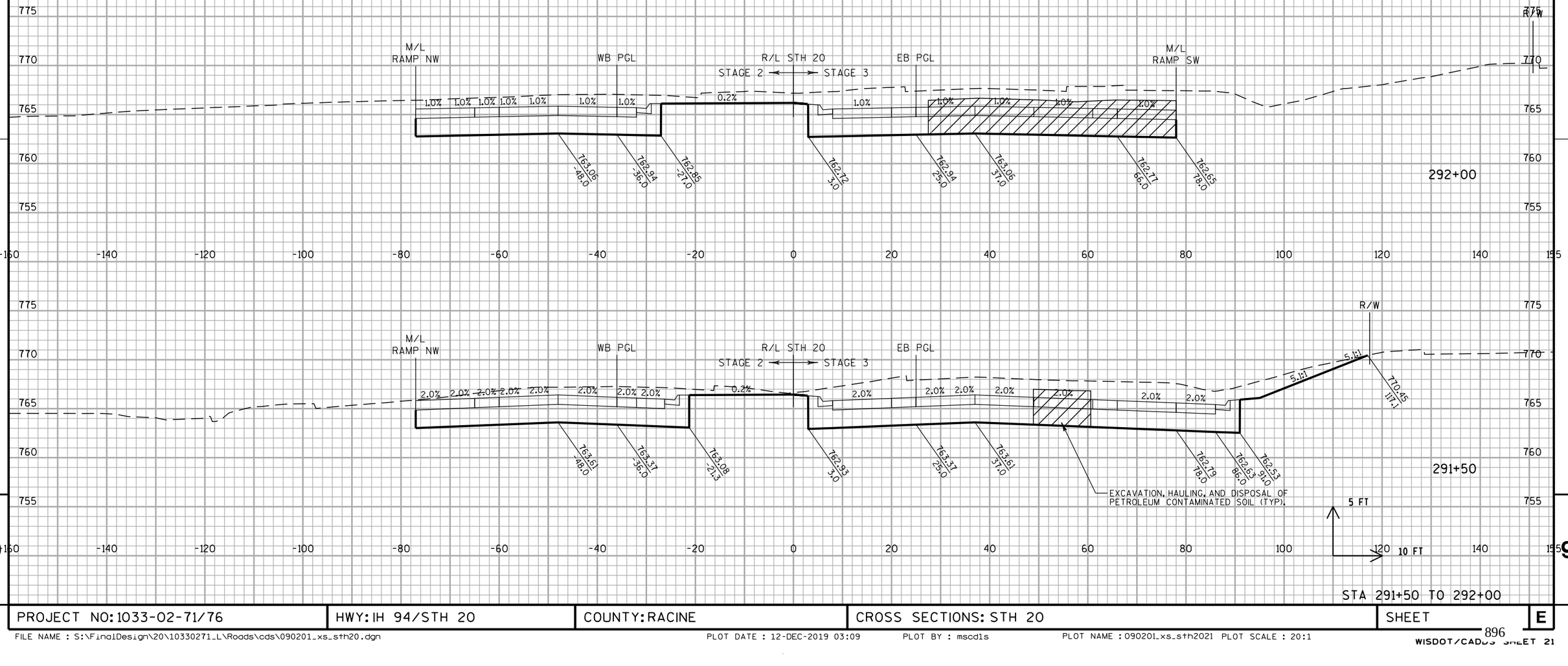


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:09 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2019 PLOT SCALE : 20:1

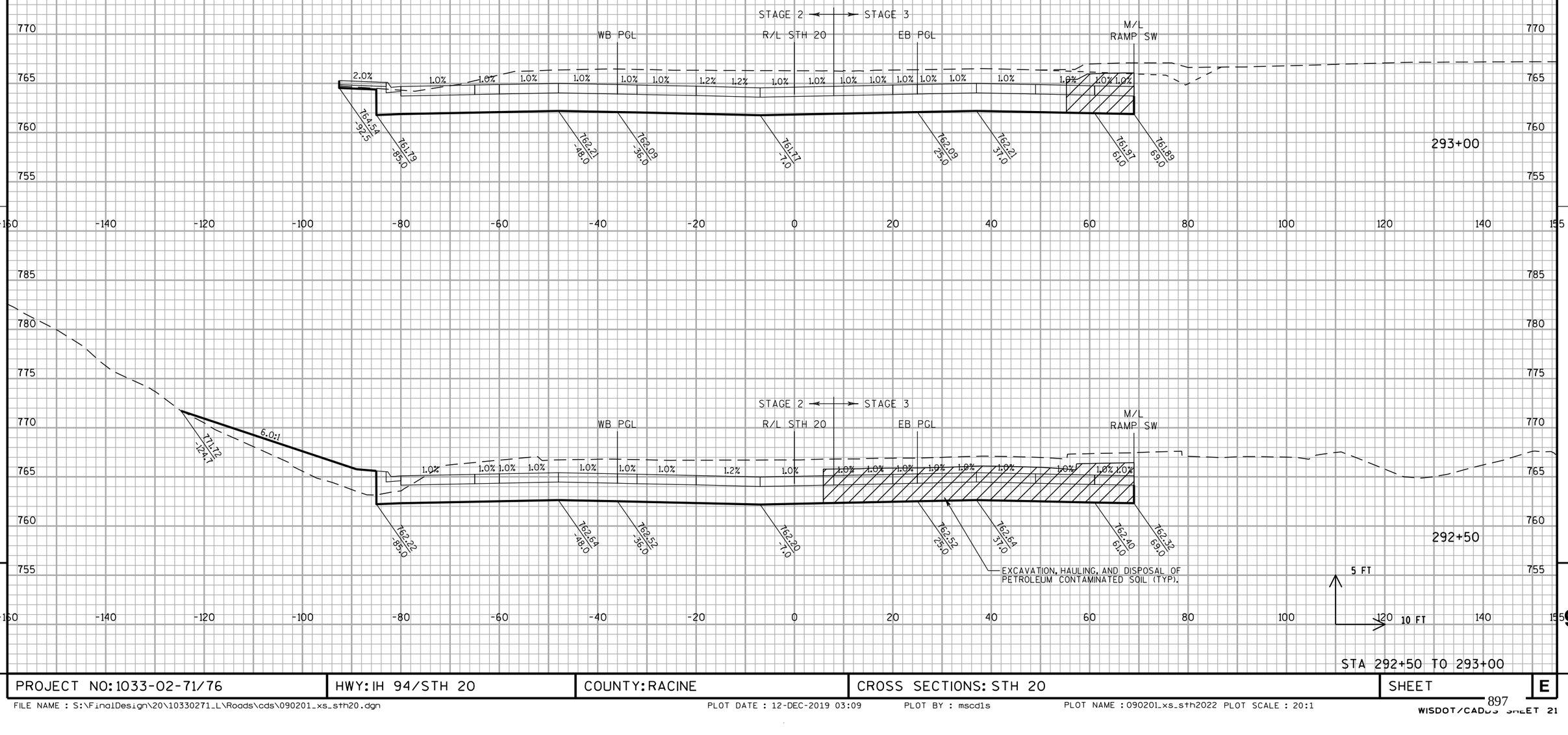


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

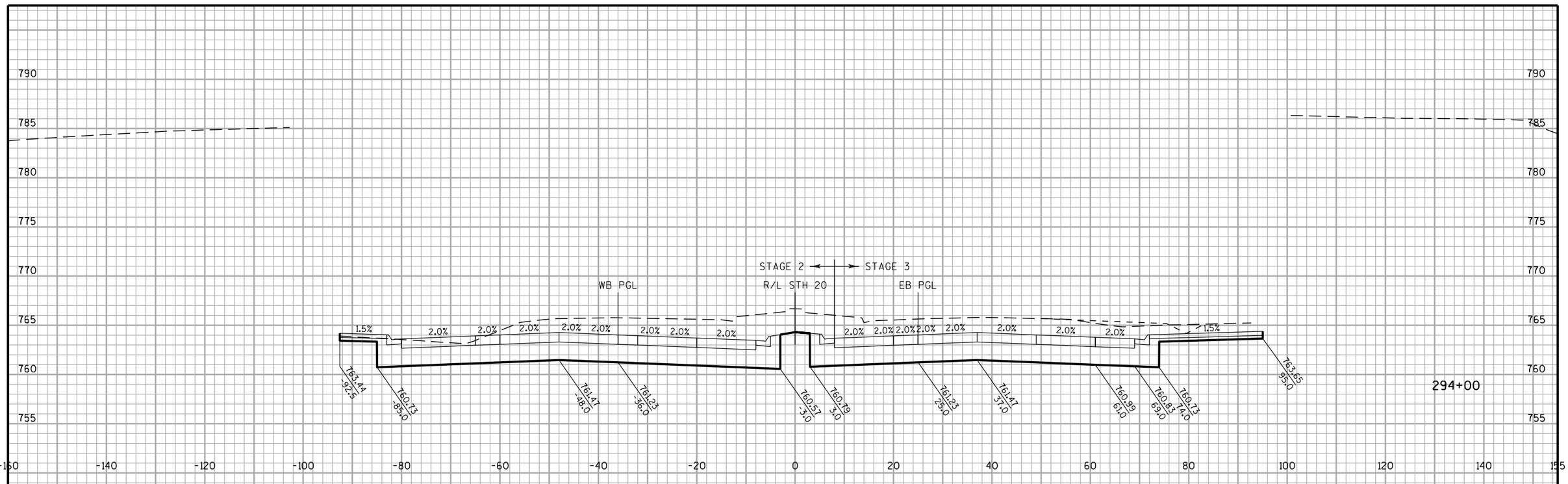


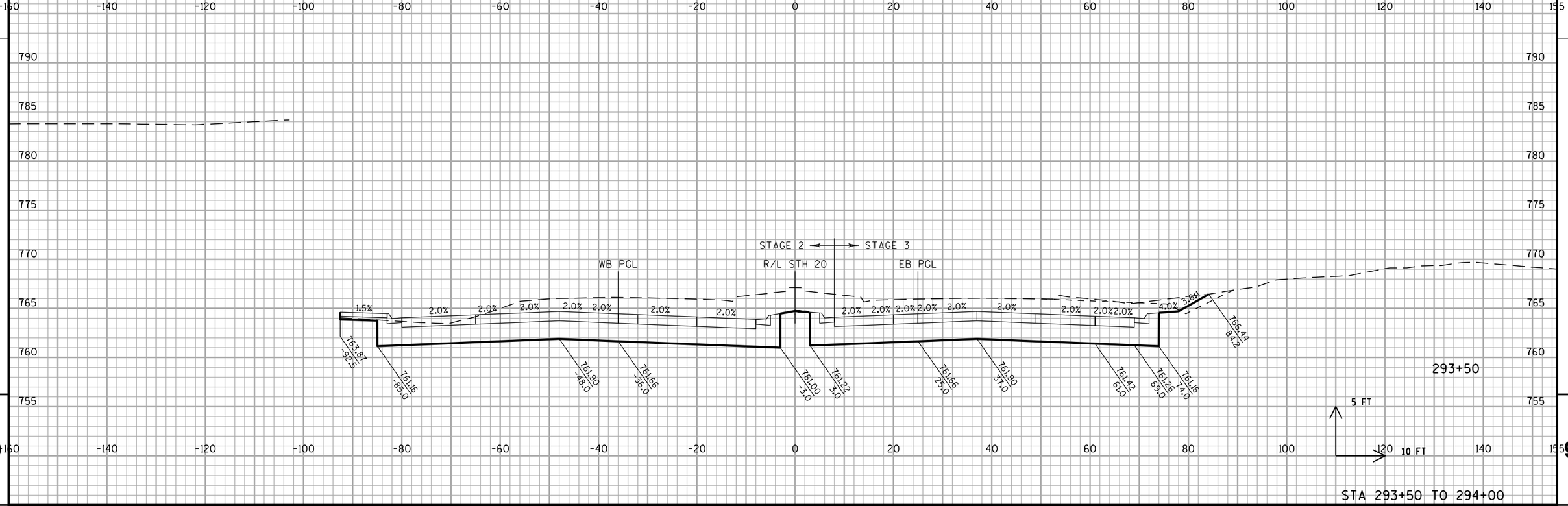
STA 291+50 TO 292+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

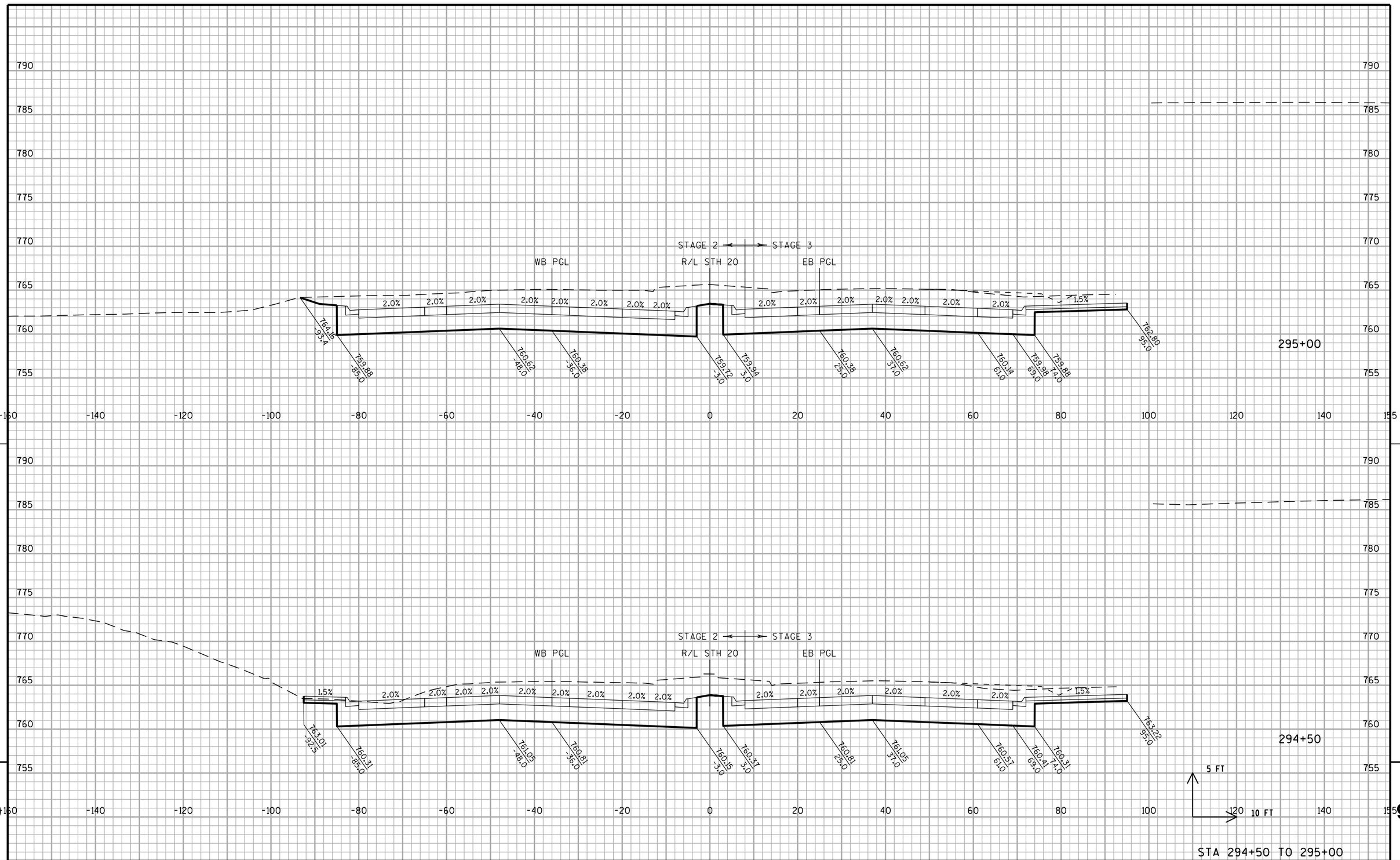




STA 293+50 TO 294+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:09 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2023 PLOT SCALE : 20:1

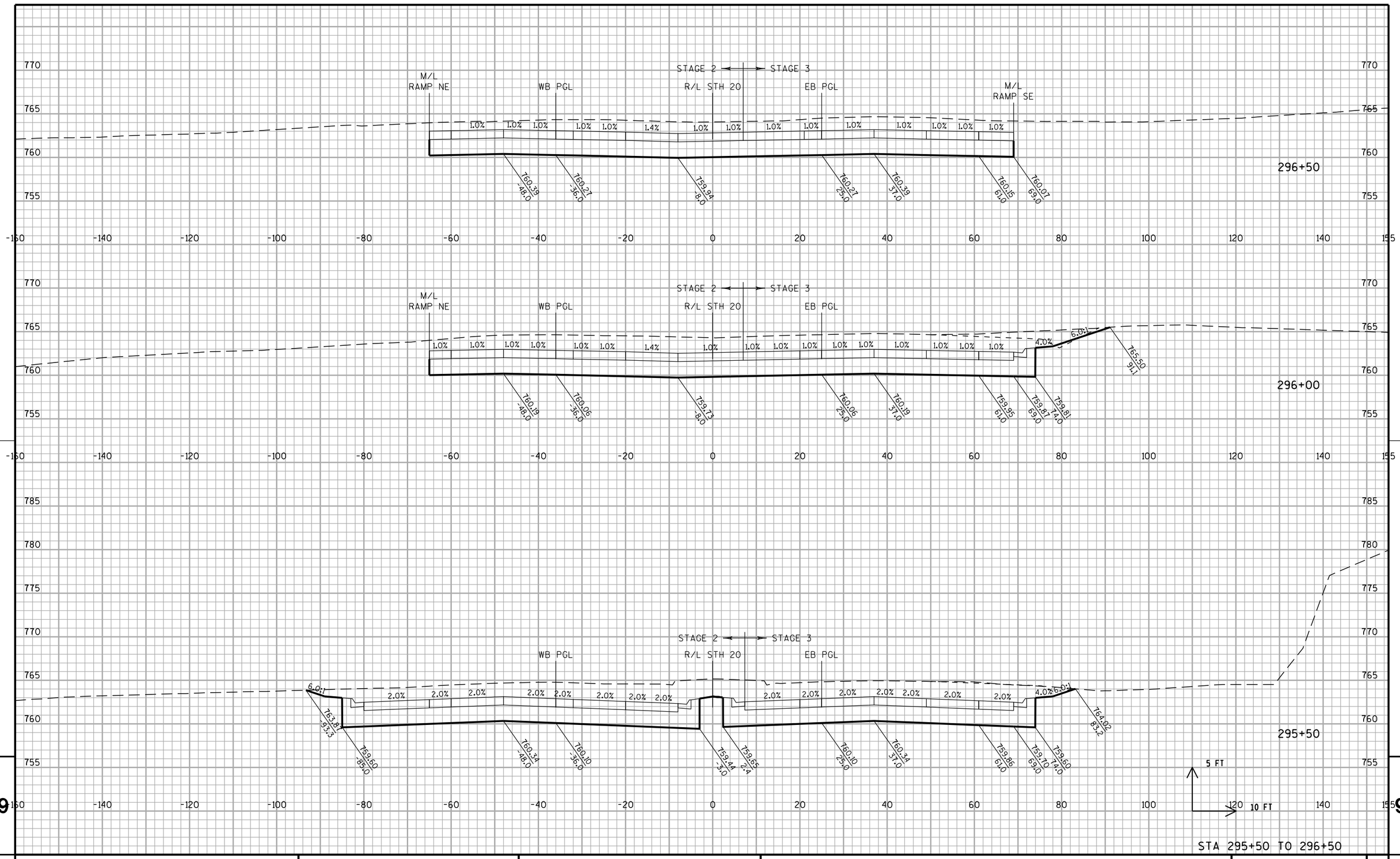


STA 294+50 TO 295+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:09 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2024 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

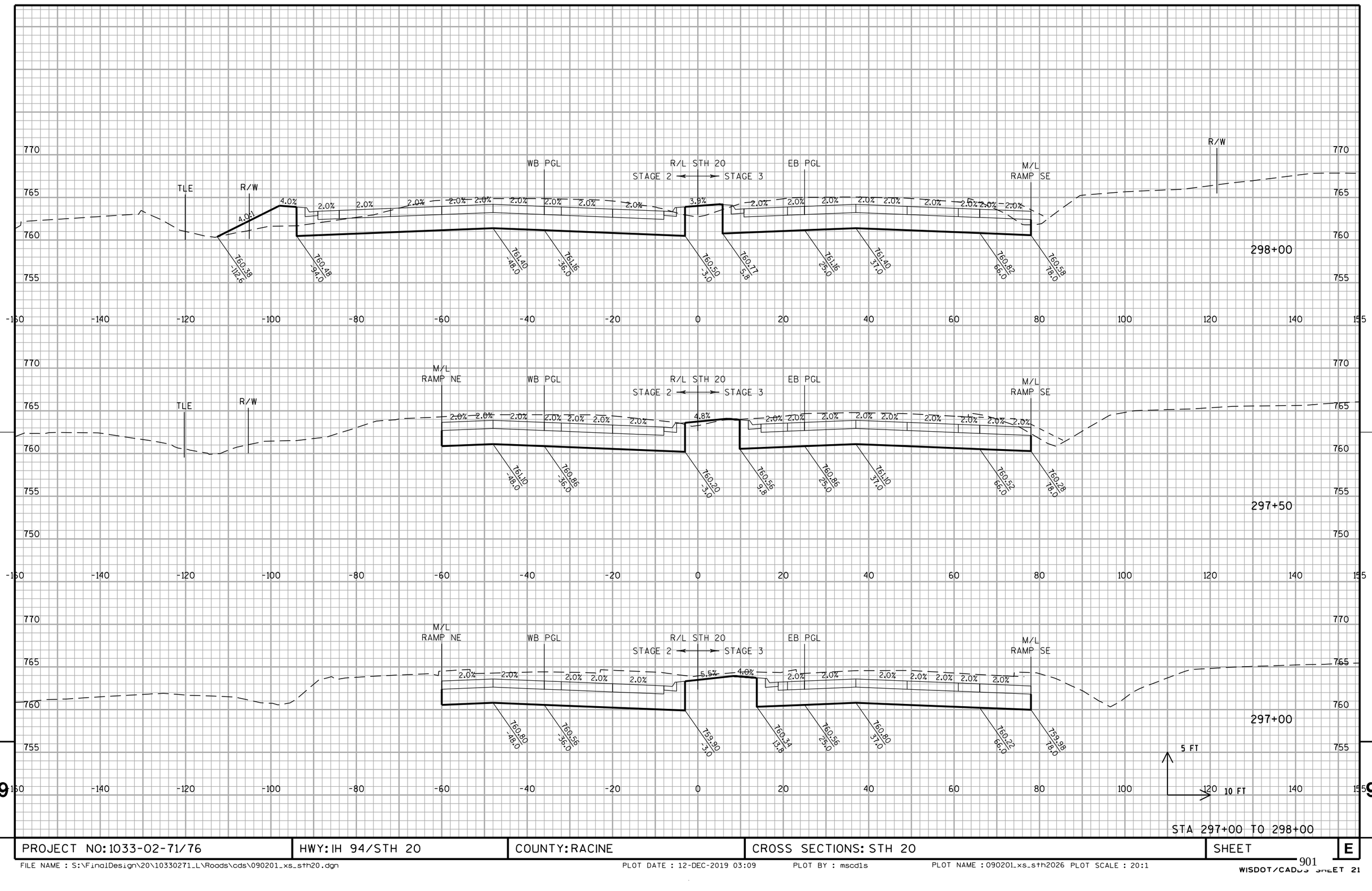


STA 295+50 TO 296+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

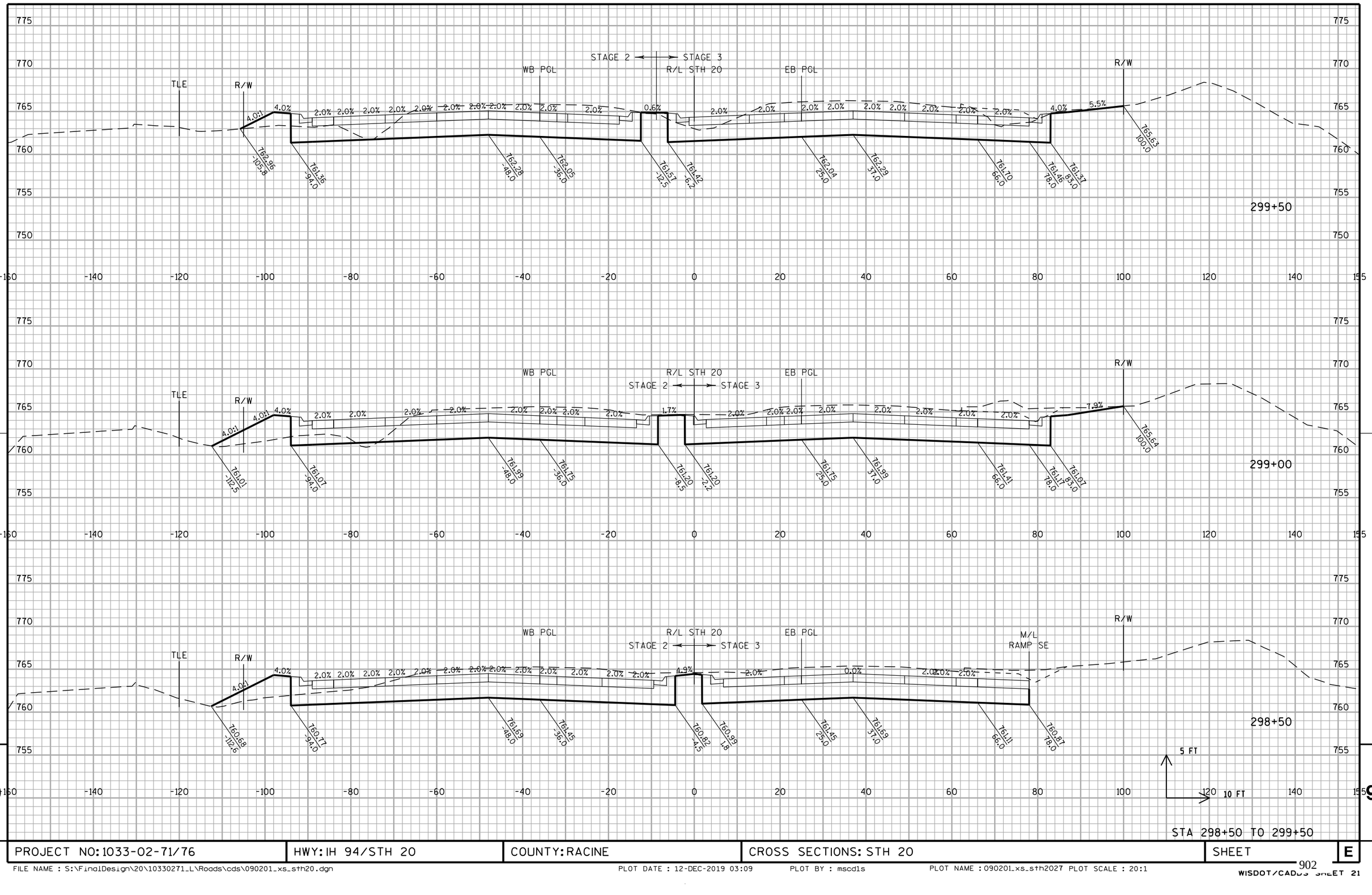
FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:09 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2025 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:09 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2026 PLOT SCALE : 20:1



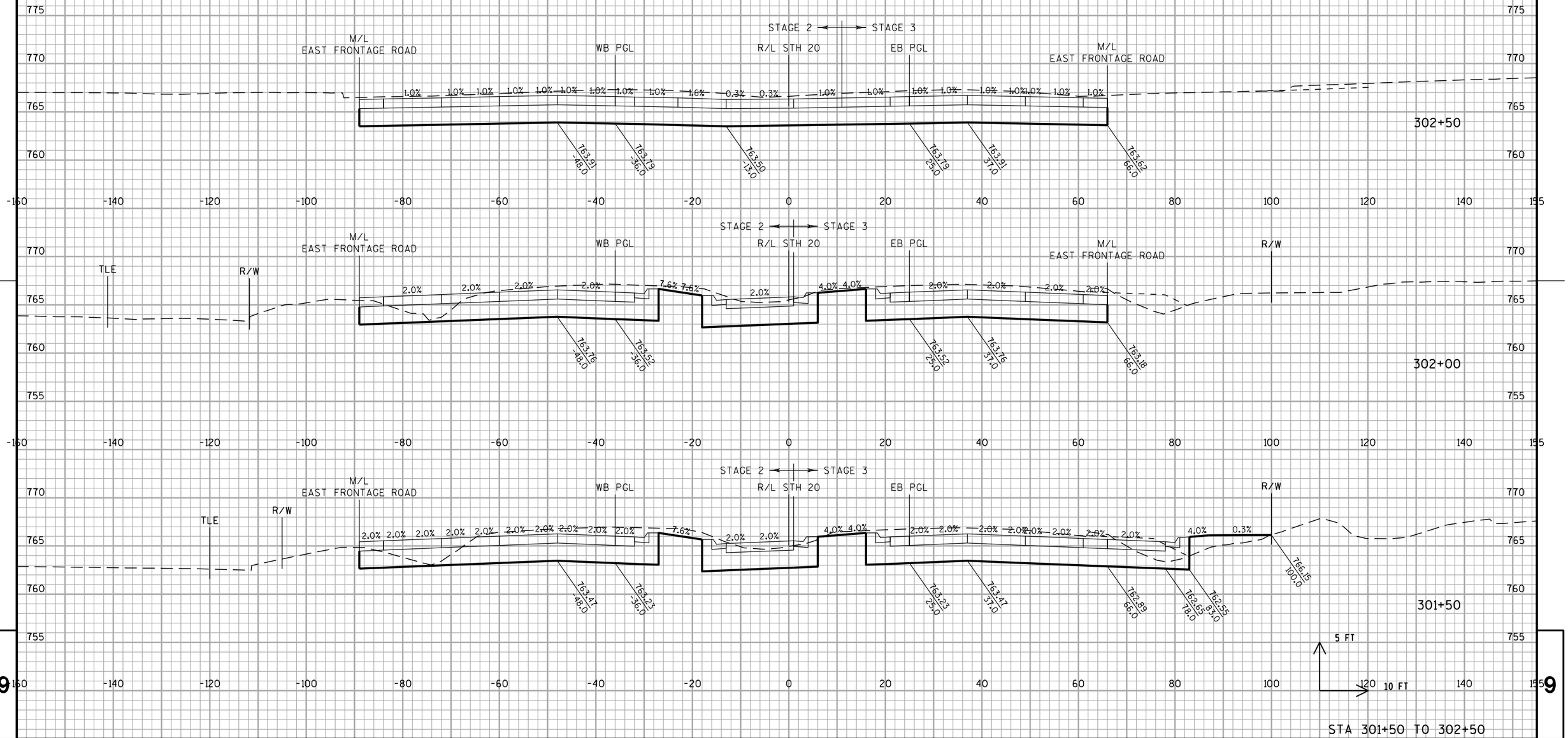
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:09 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2027 PLOT SCALE : 20:1



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:09 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2028 PLOT SCALE : 20:1

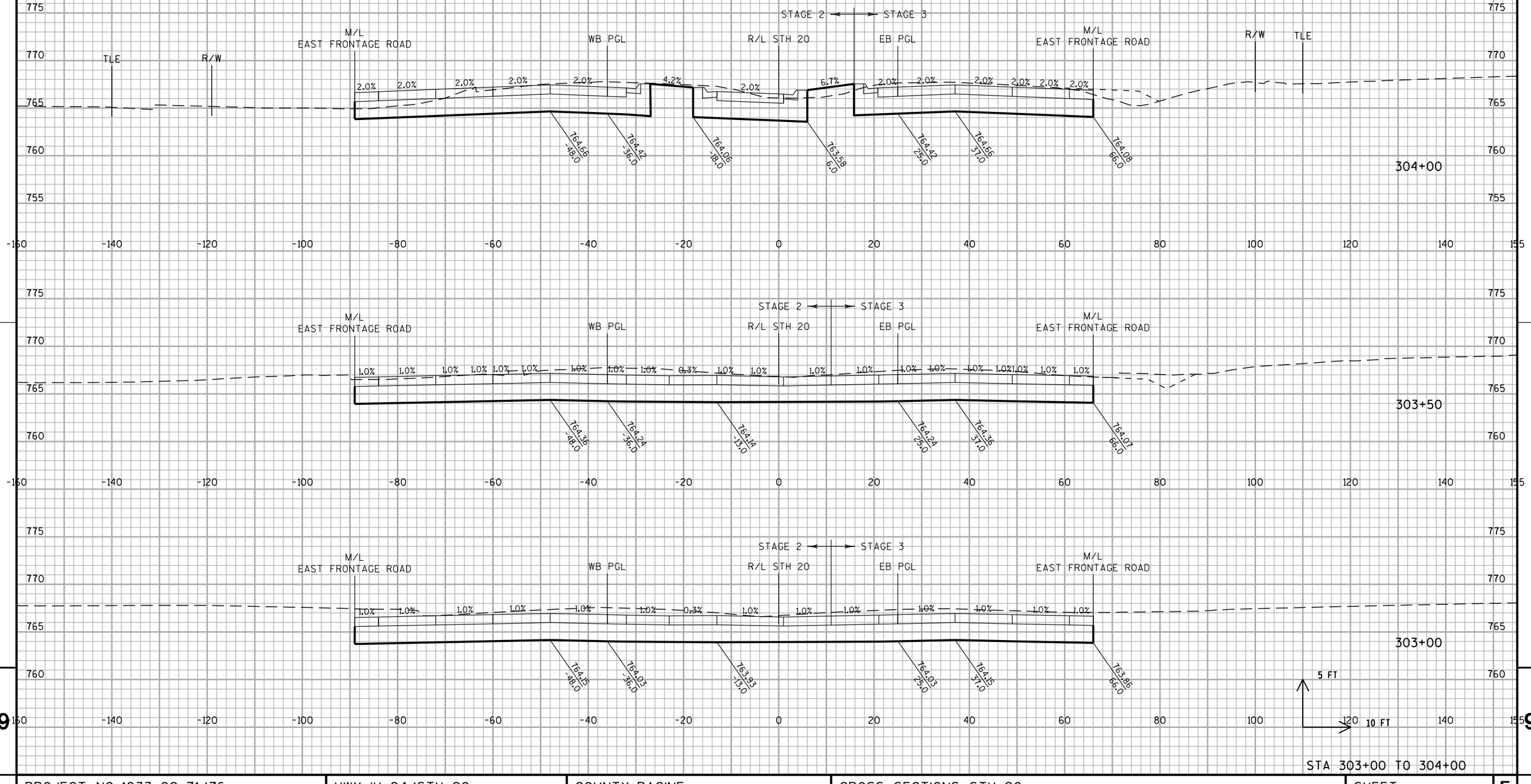


STA 301+50 TO 302+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:09 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2029 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

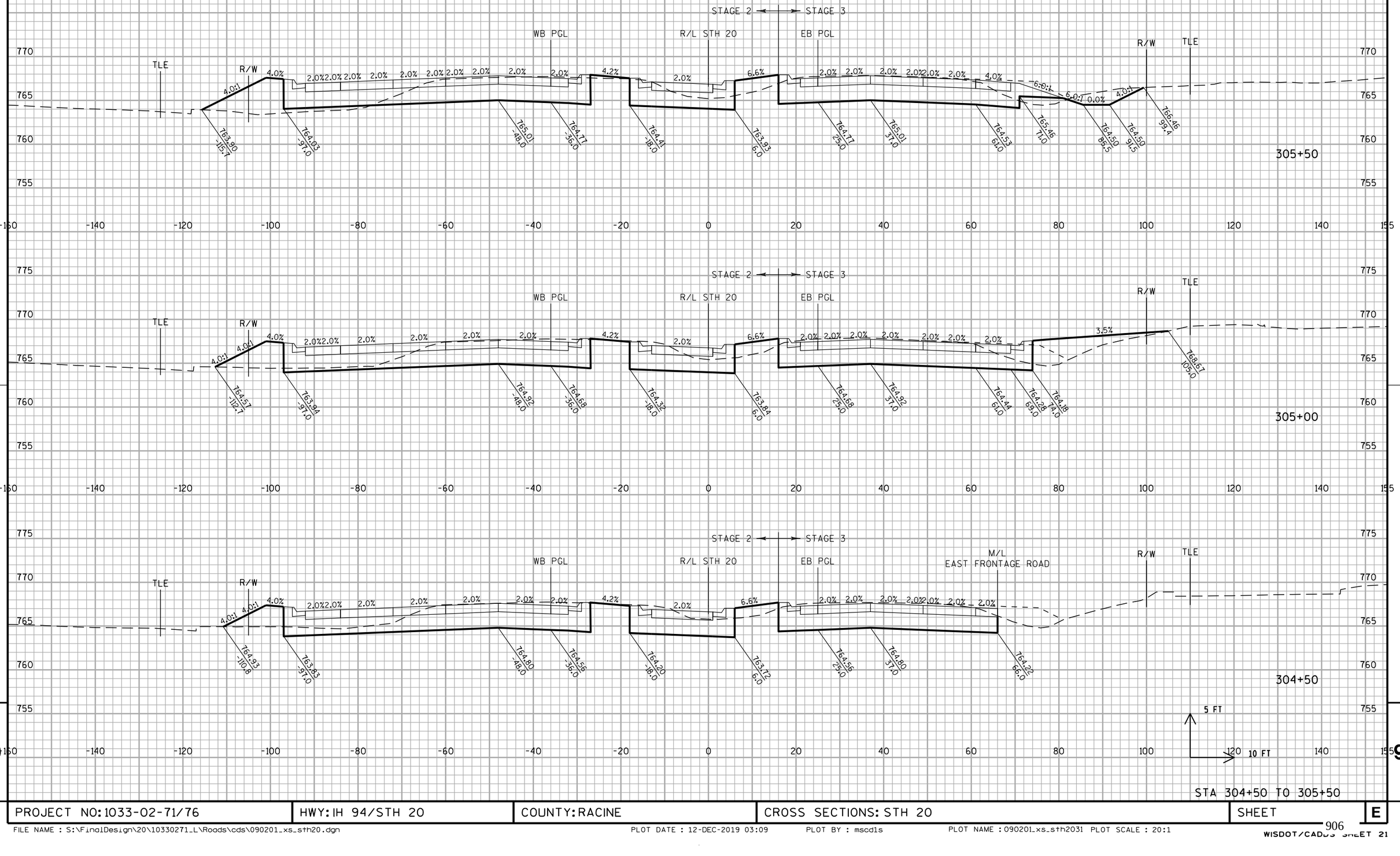


STA 303+00 TO 304+00

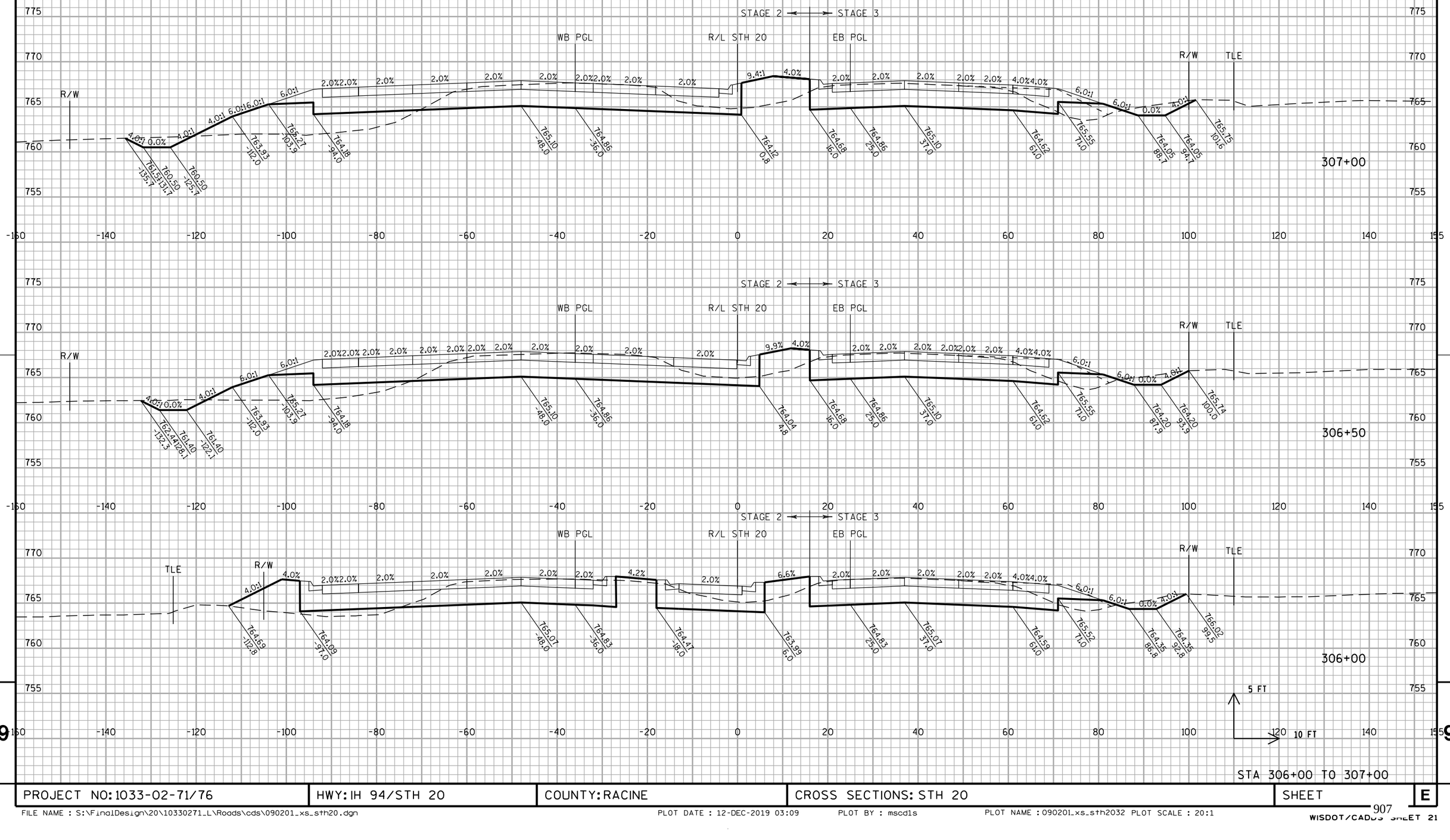
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:09 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2030 PLOT SCALE : 20:1

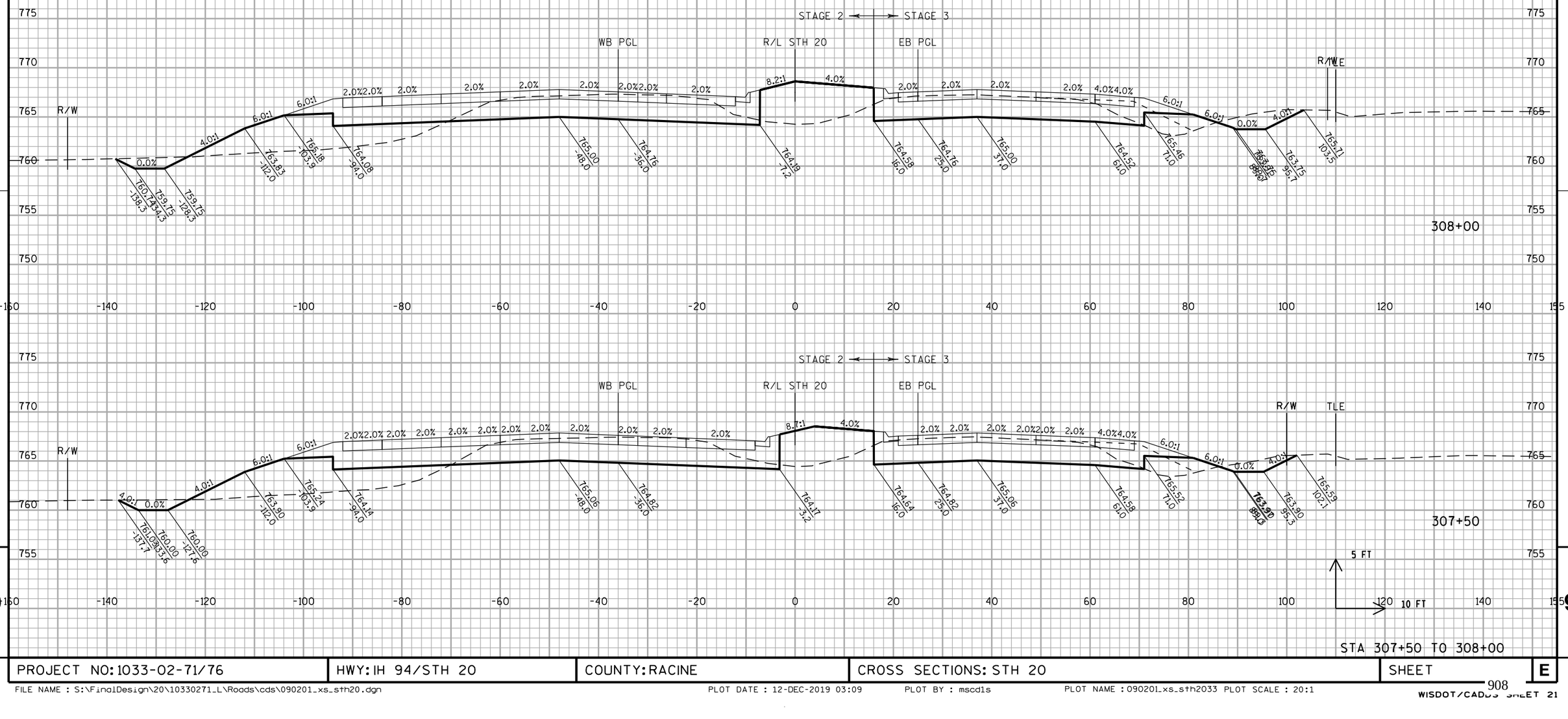
WISDOT/CADDS SHEET 21



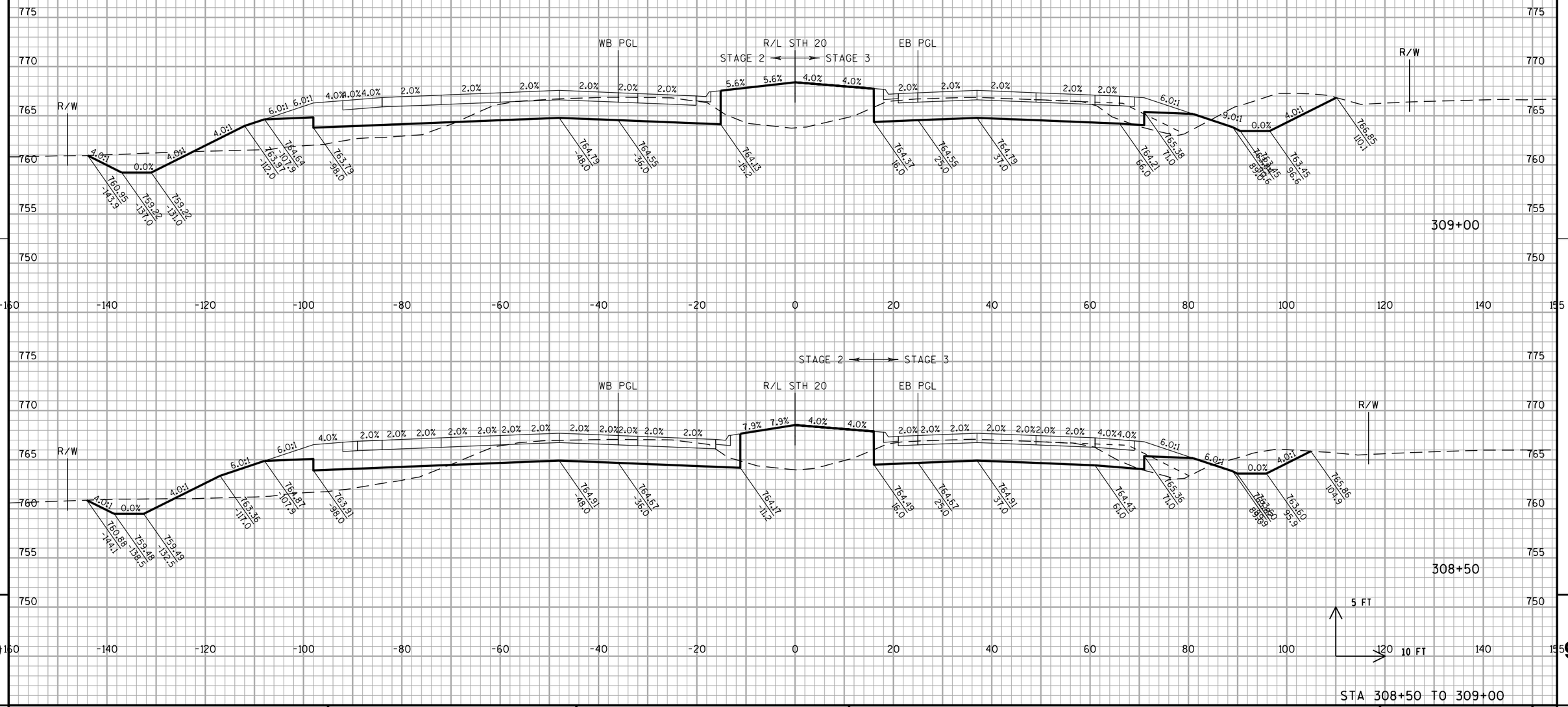
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E



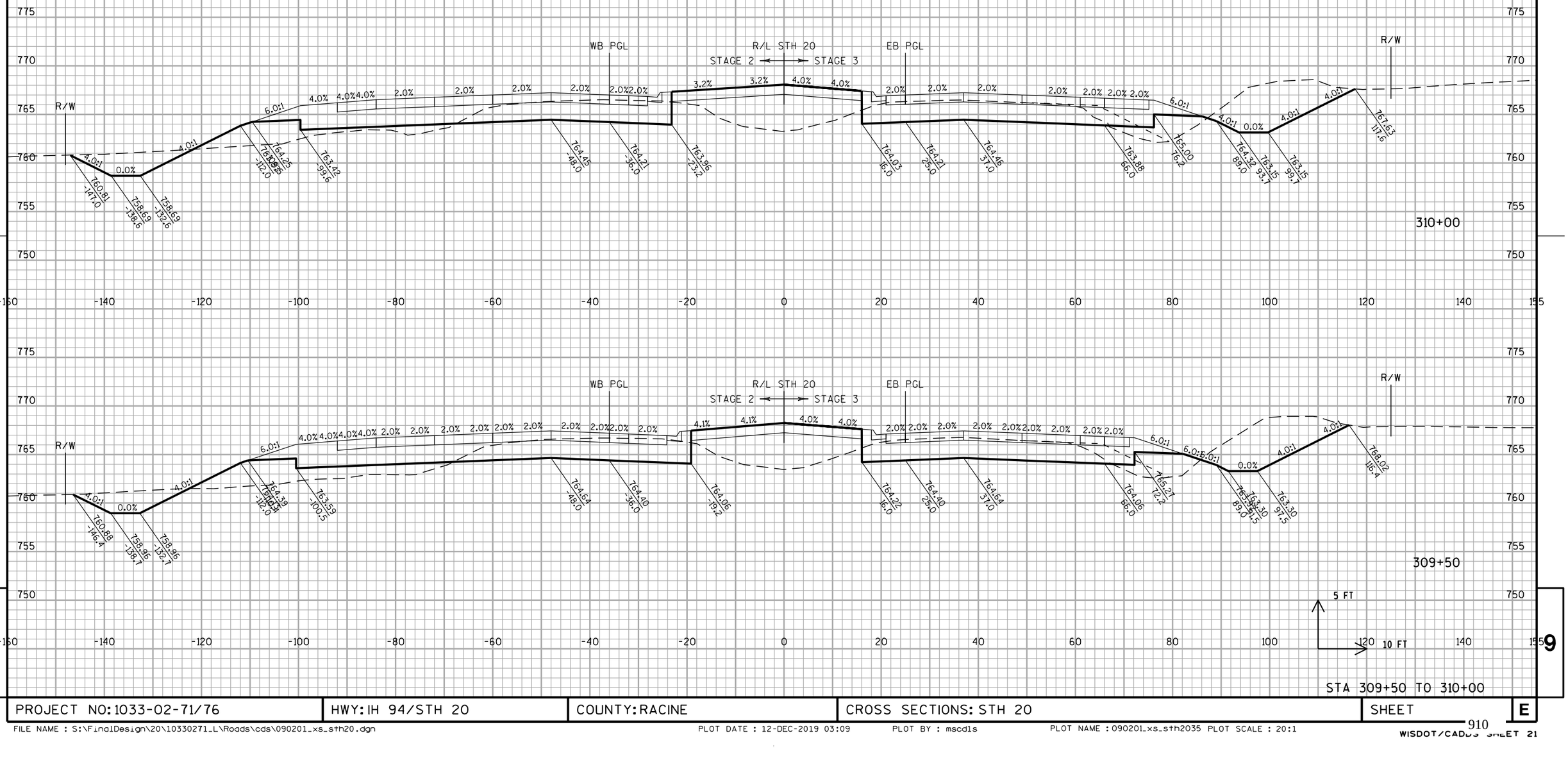
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

STA 308+50 TO 309+00

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:09 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2034 PLOT SCALE : 20:1

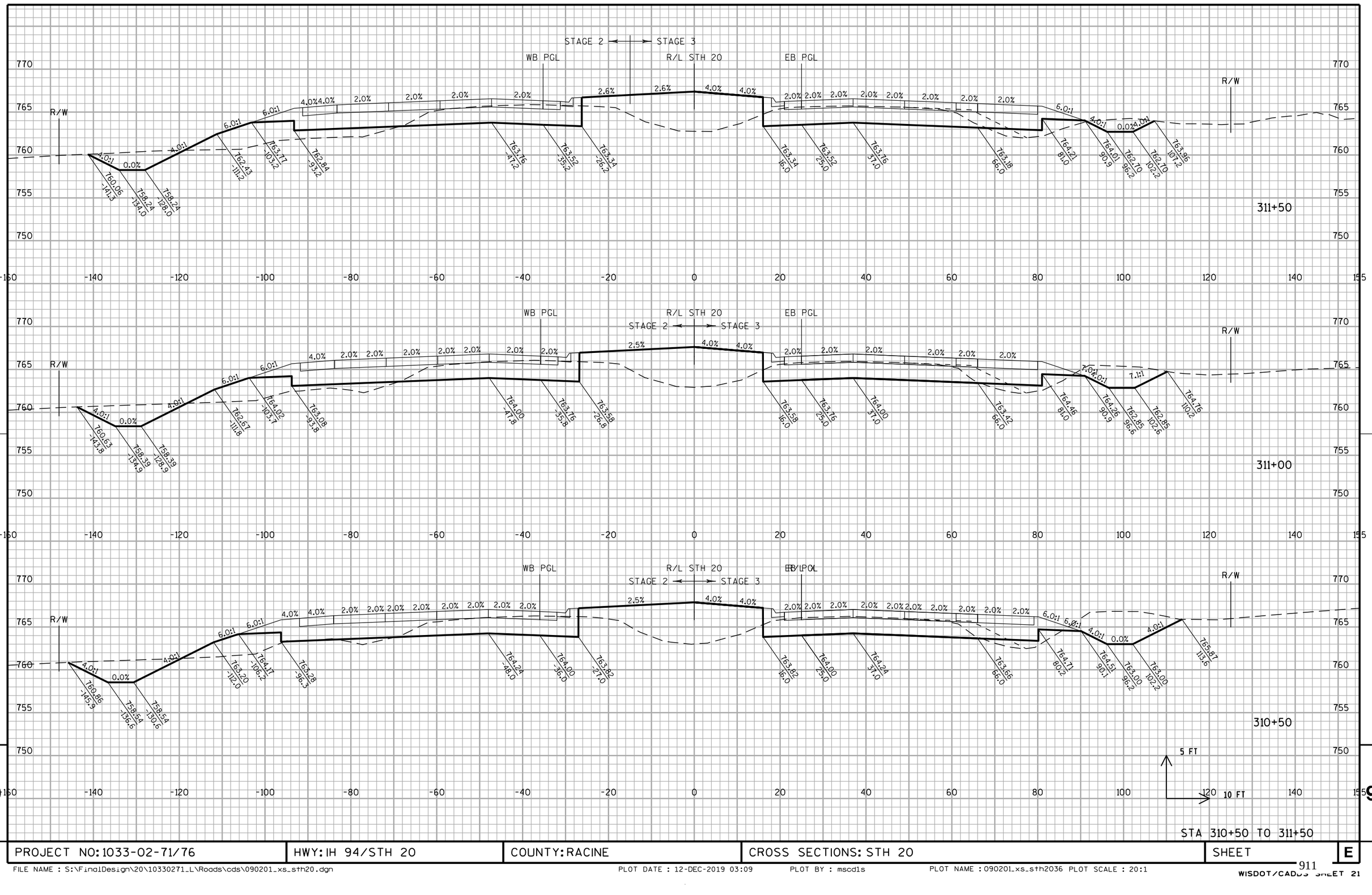


STA 309+50 TO 310+00

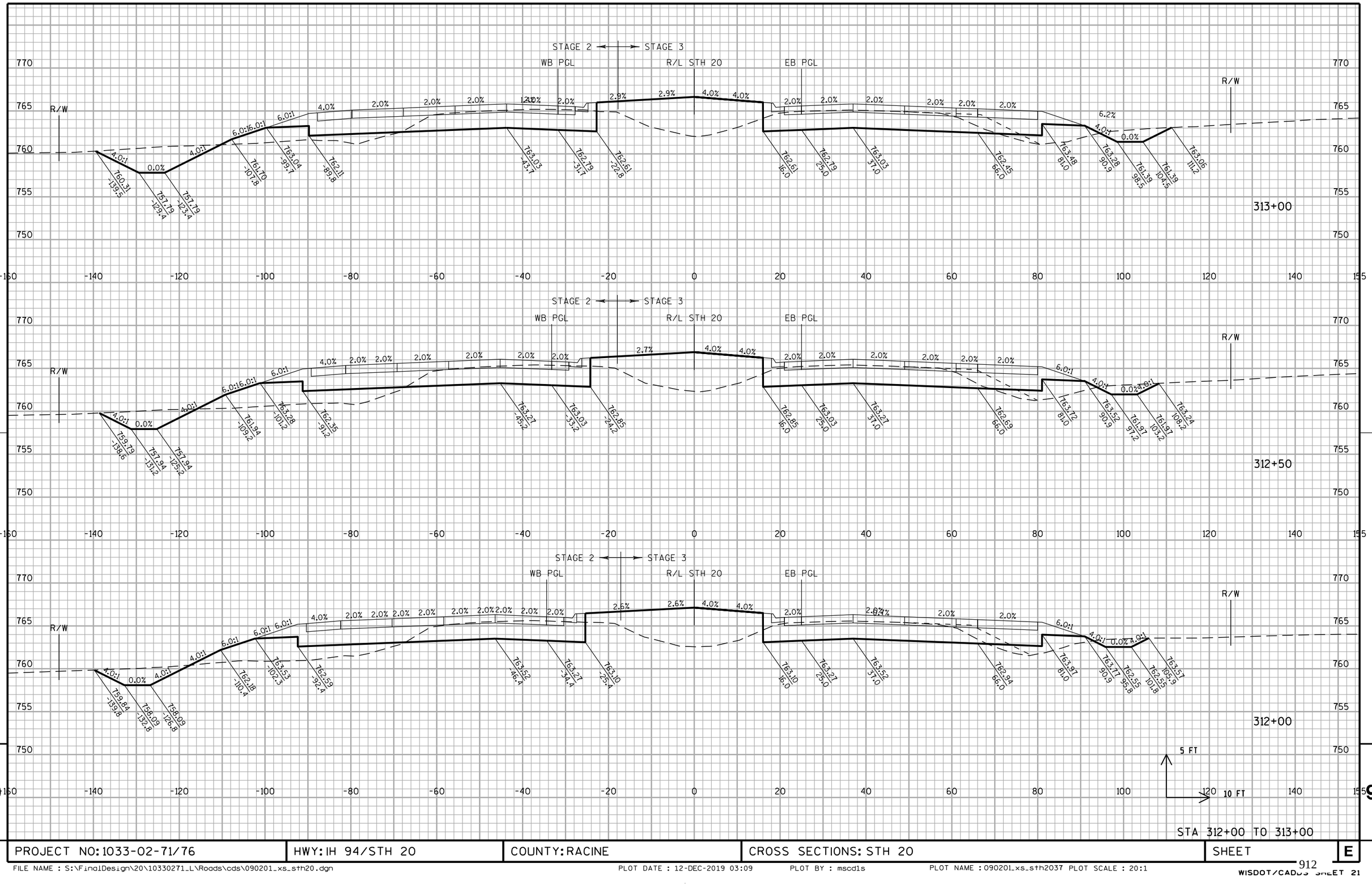
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:09 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2035 PLOT SCALE : 20:1

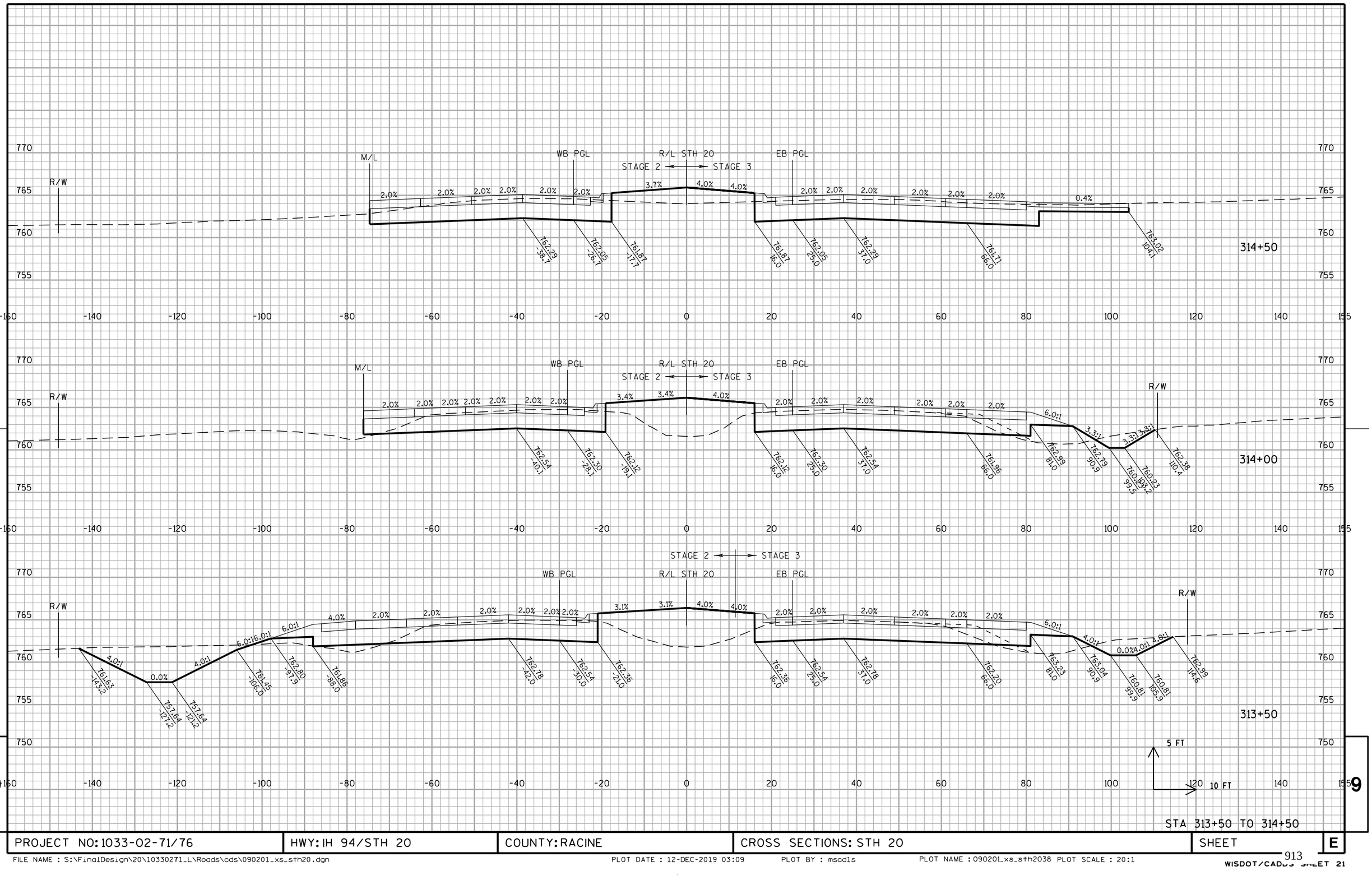
WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

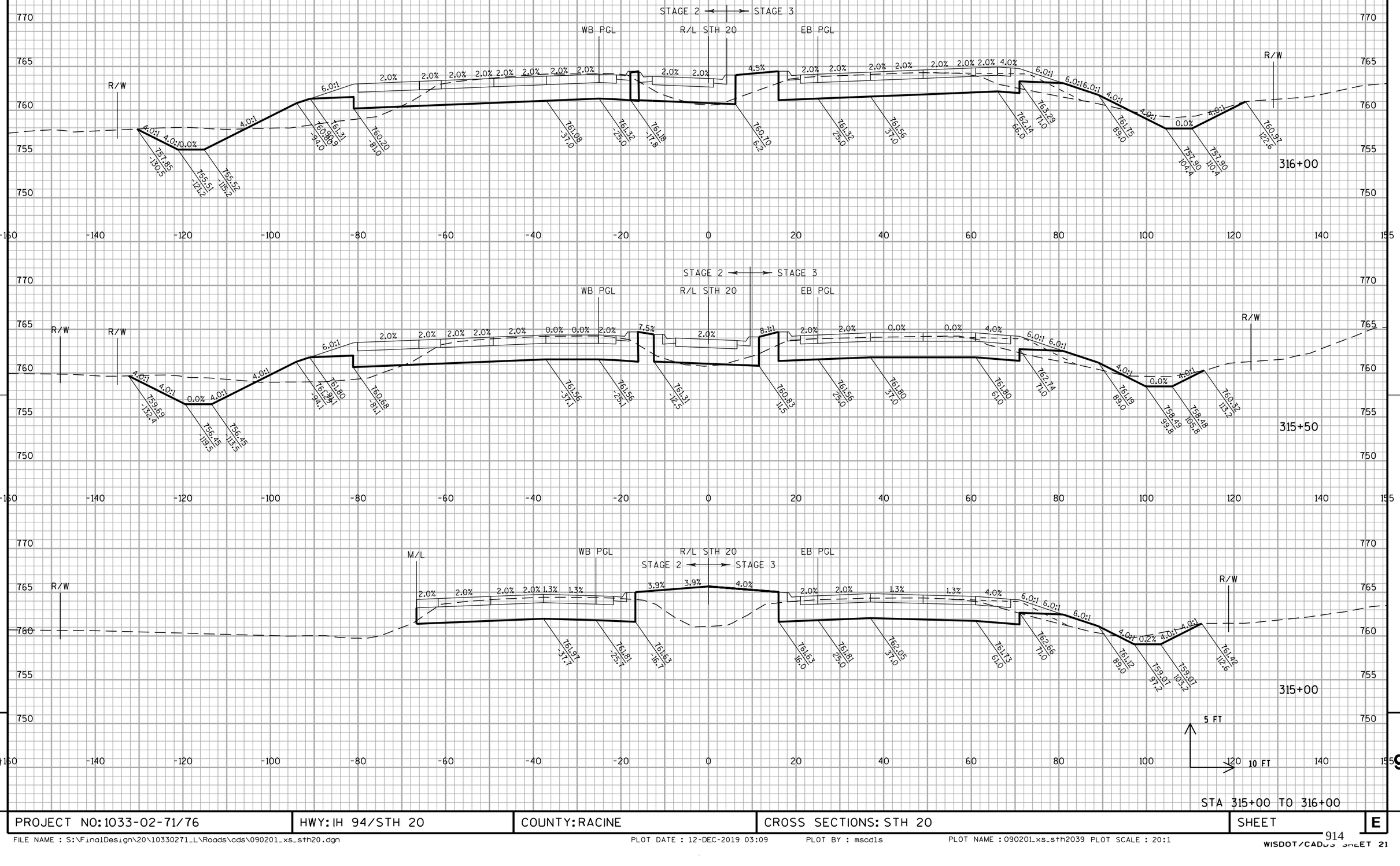


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

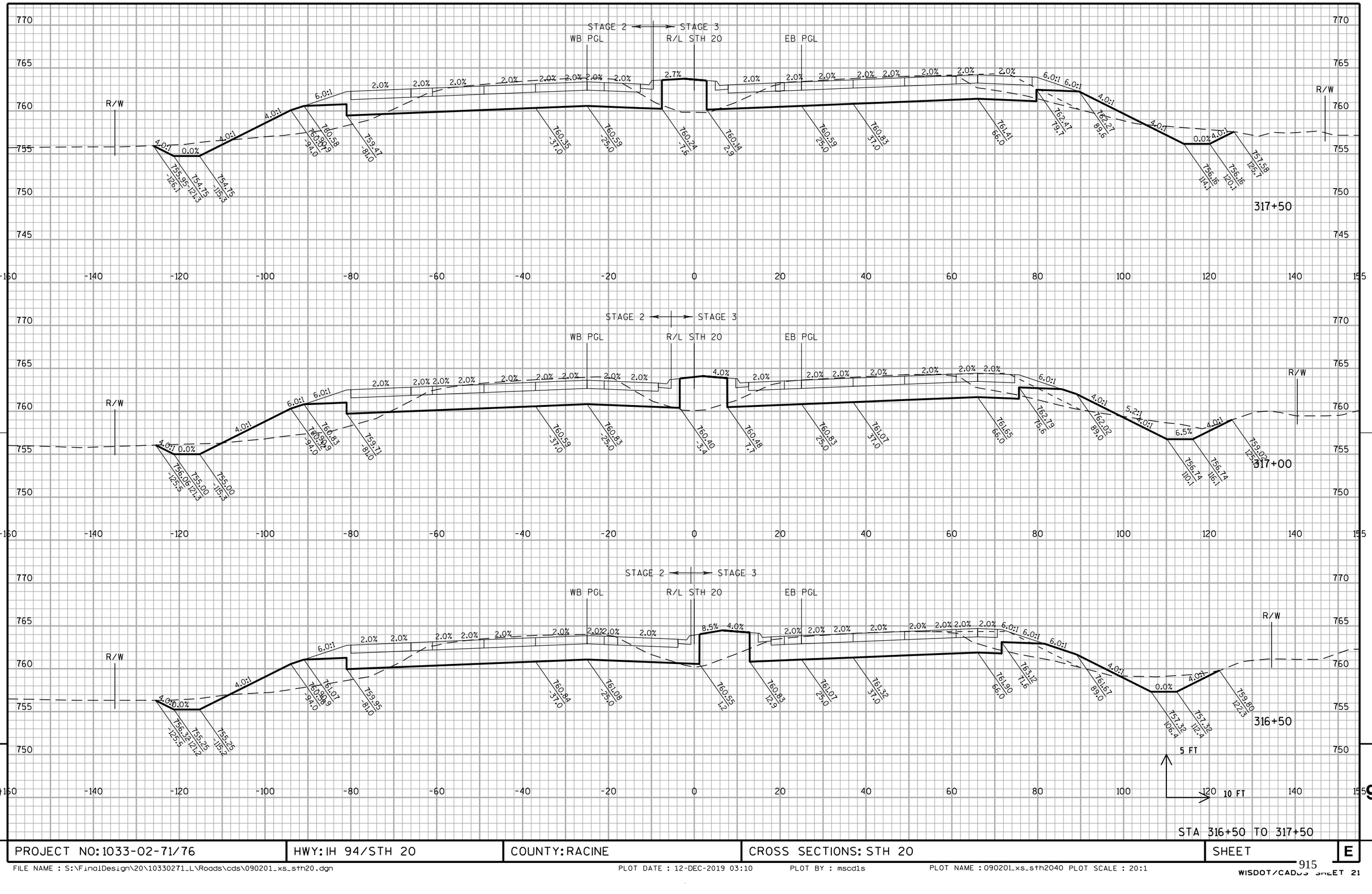


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

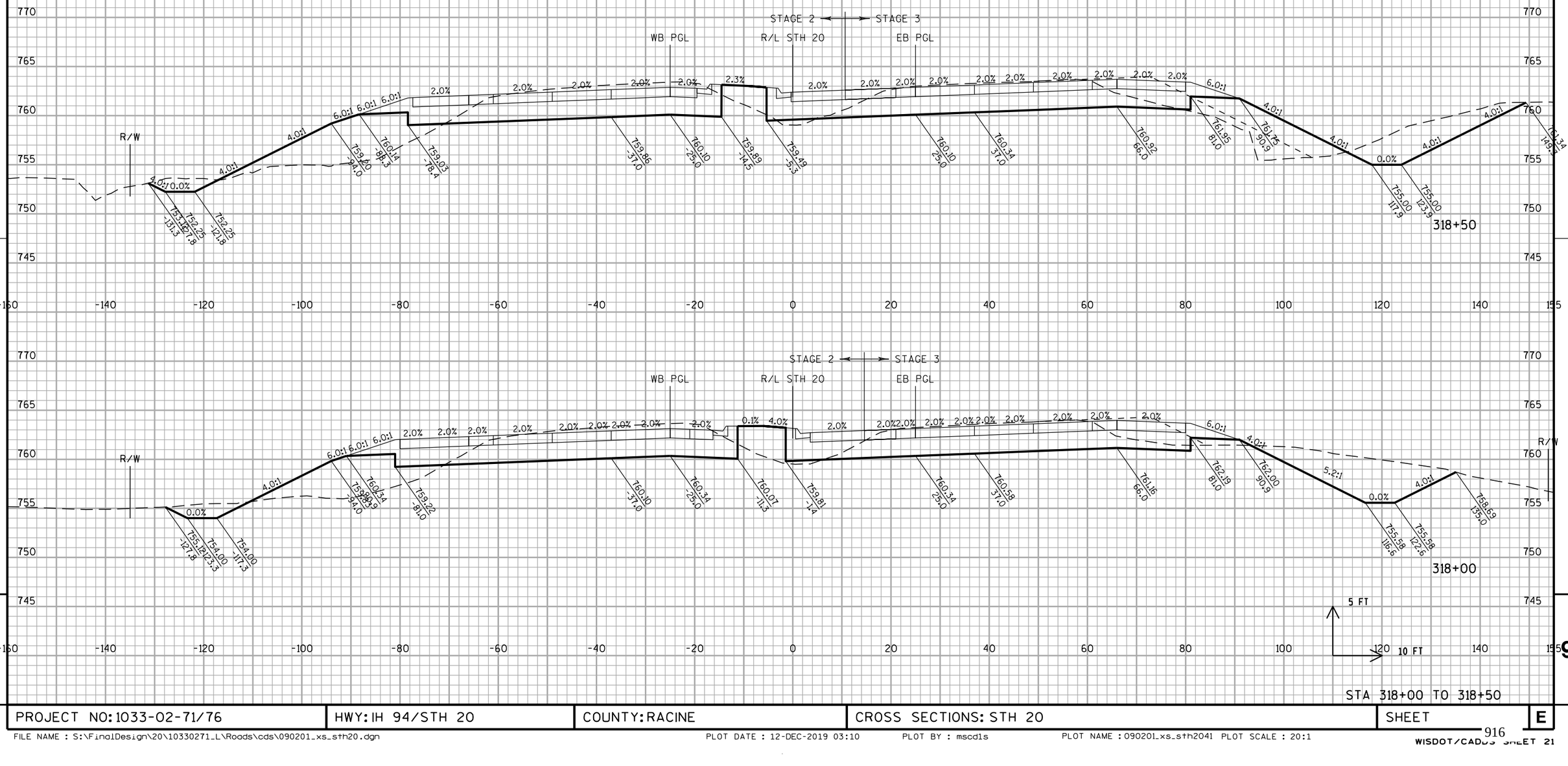
FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:09 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2038 PLOT SCALE : 20:1



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

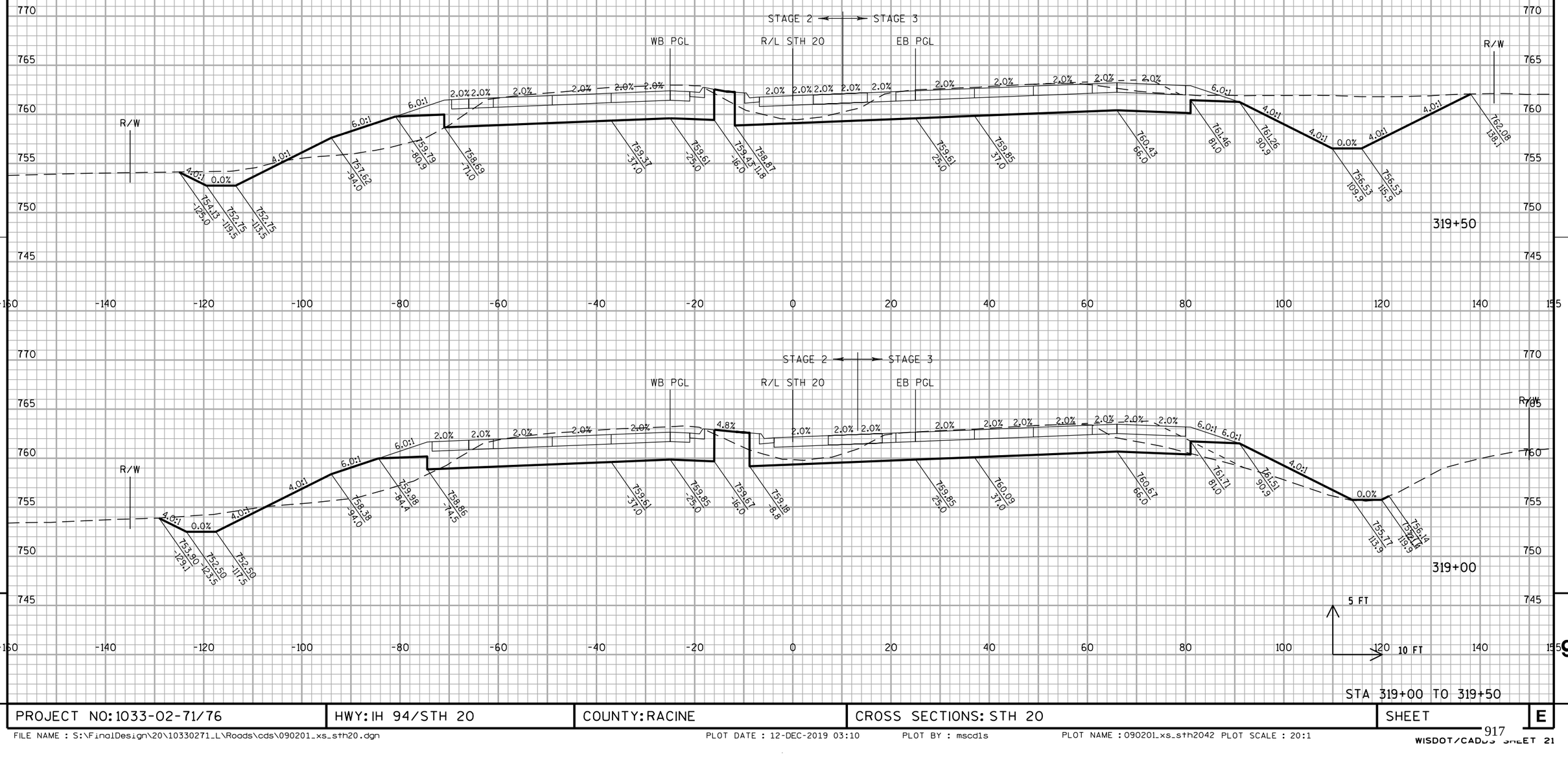


STA 318+00 TO 318+50

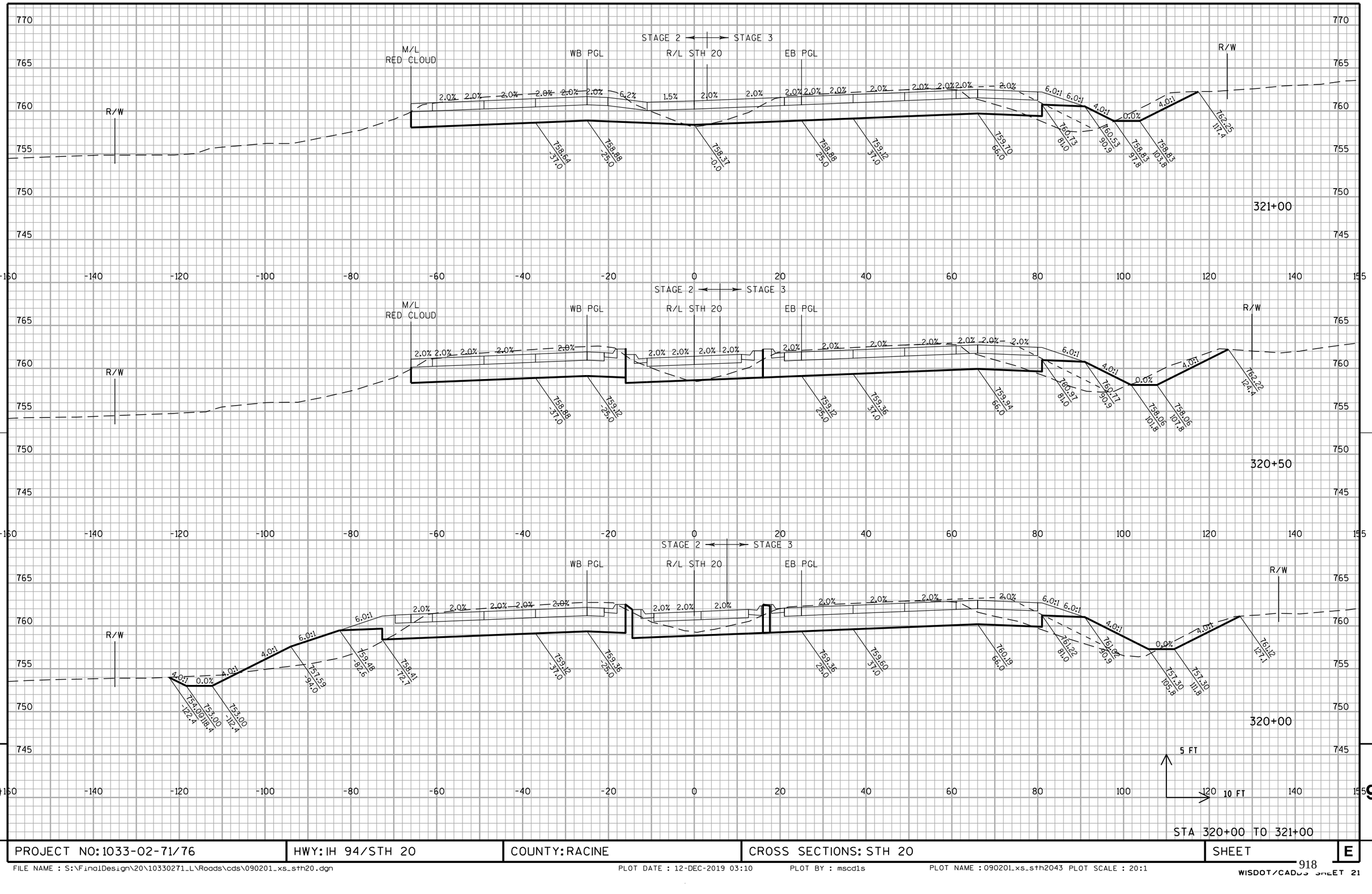
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:10 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2041 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

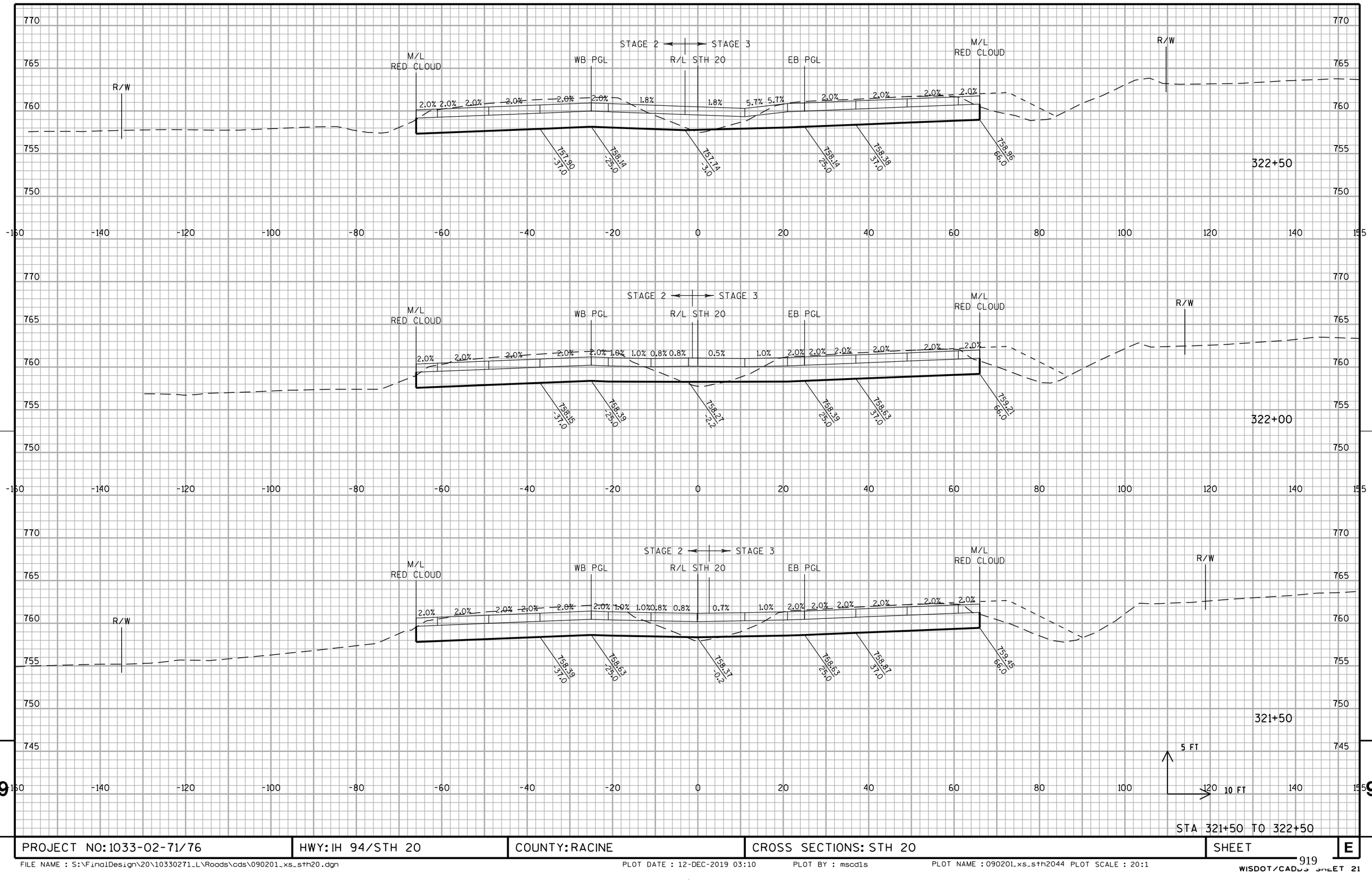


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:10 PLOT BY : mscdls PLOT NAME : 090201_xs_sth2043 PLOT SCALE : 20:1

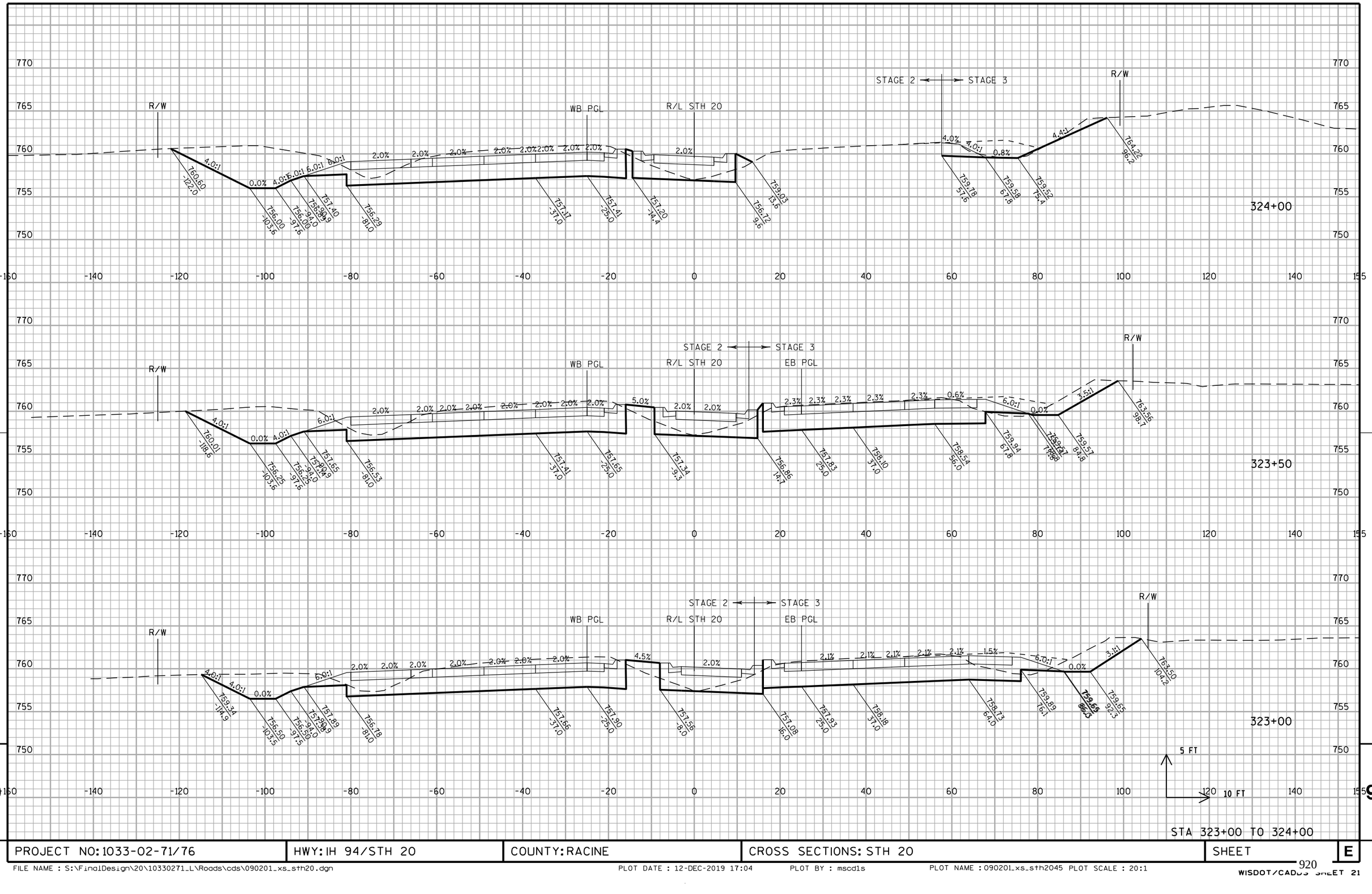


STA 321+50 TO 322+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 03:10 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2044 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



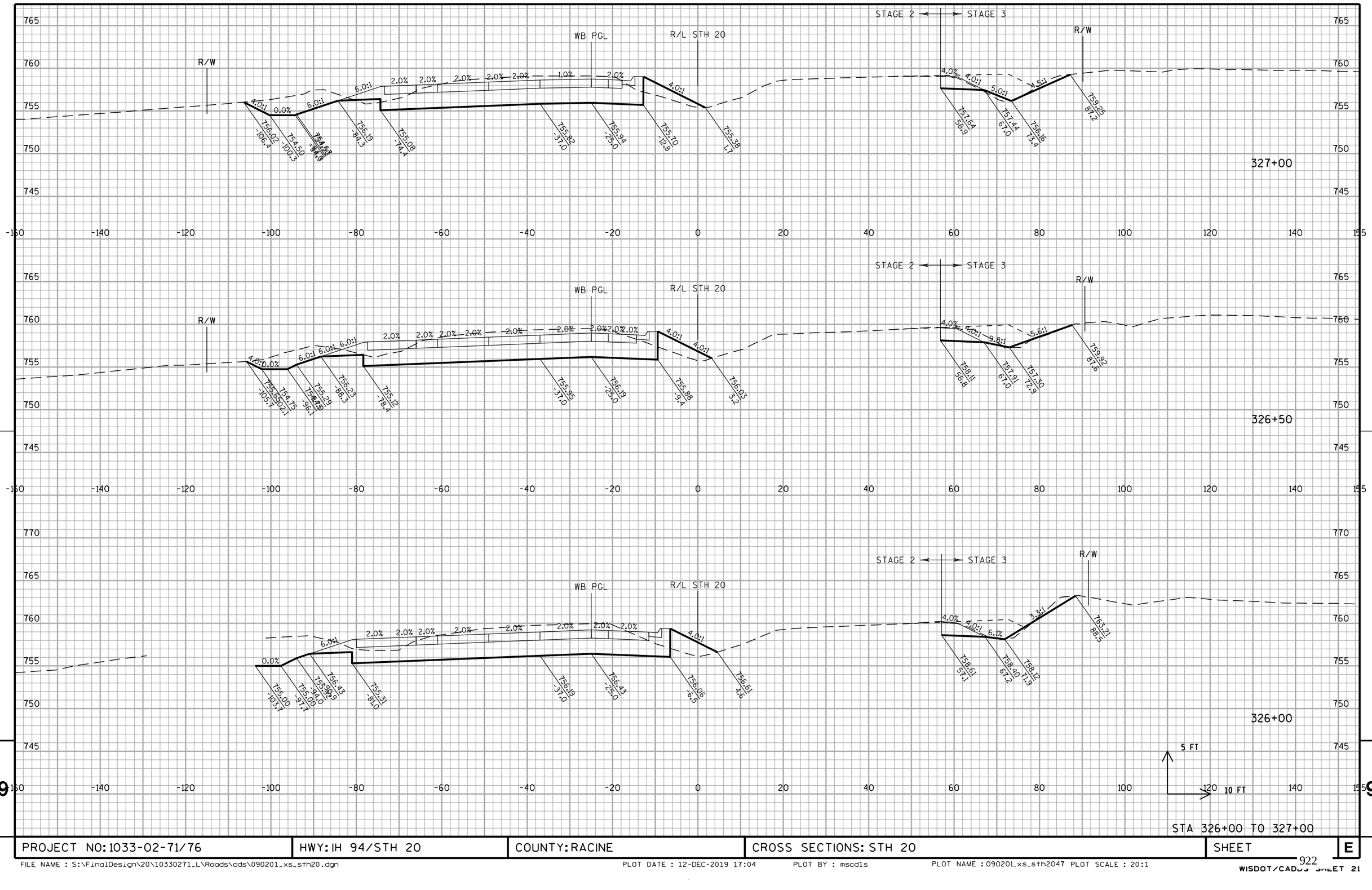
STA 323+00 TO 324+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 17:04 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2045 PLOT SCALE : 20:1

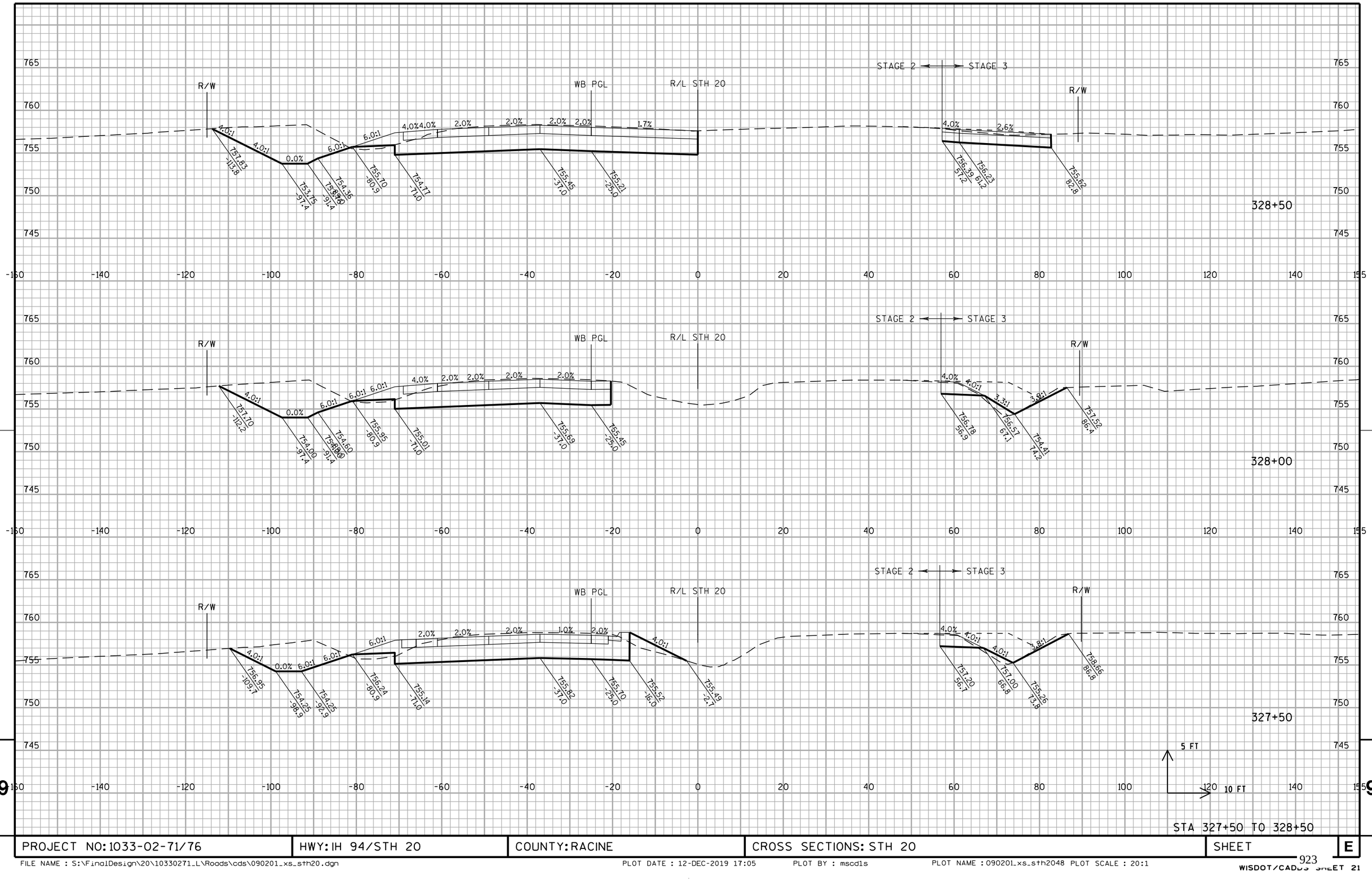
STA 324+50 TO 325+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E



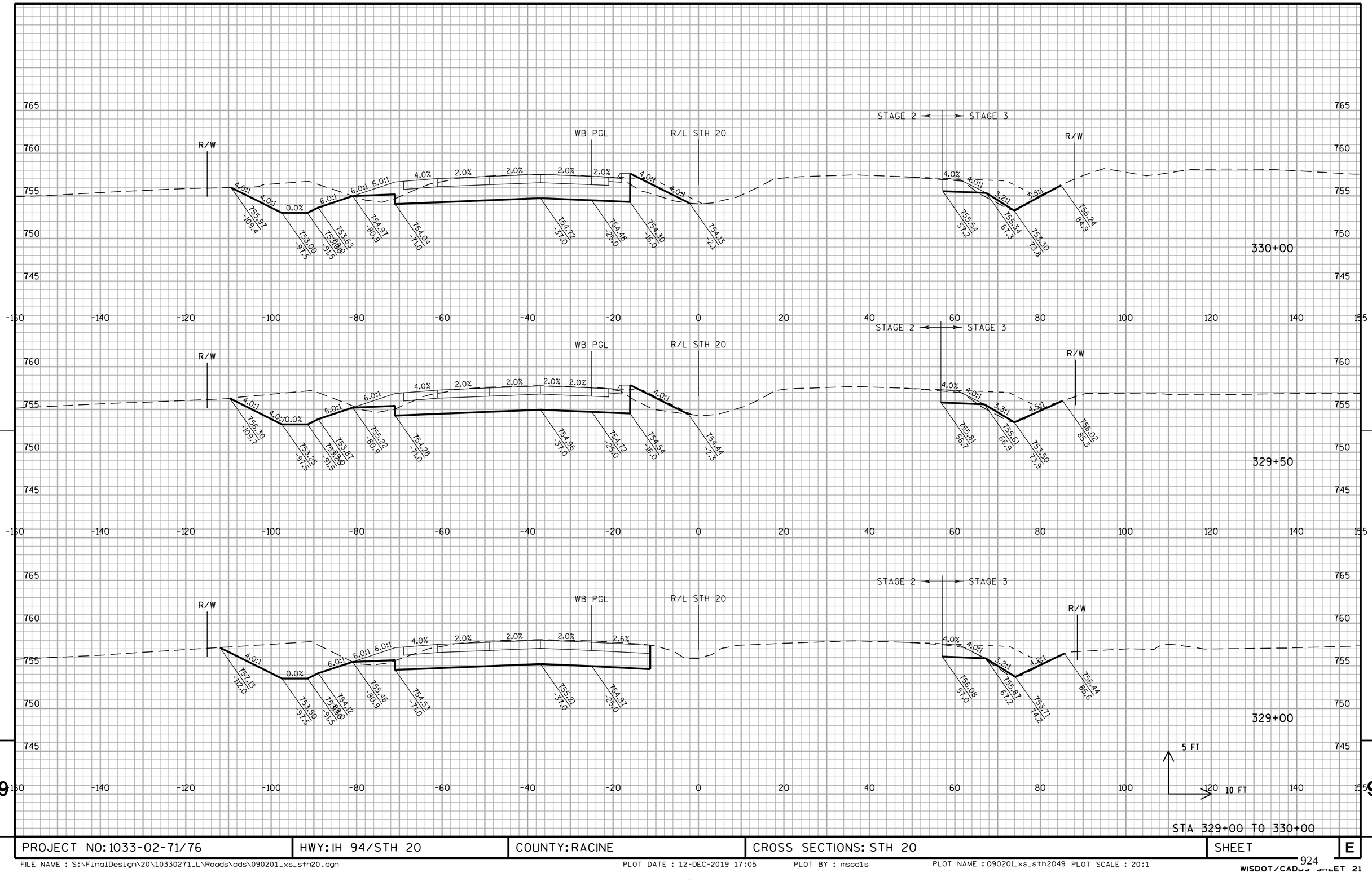
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 17:04 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2047 PLOT SCALE : 20:1



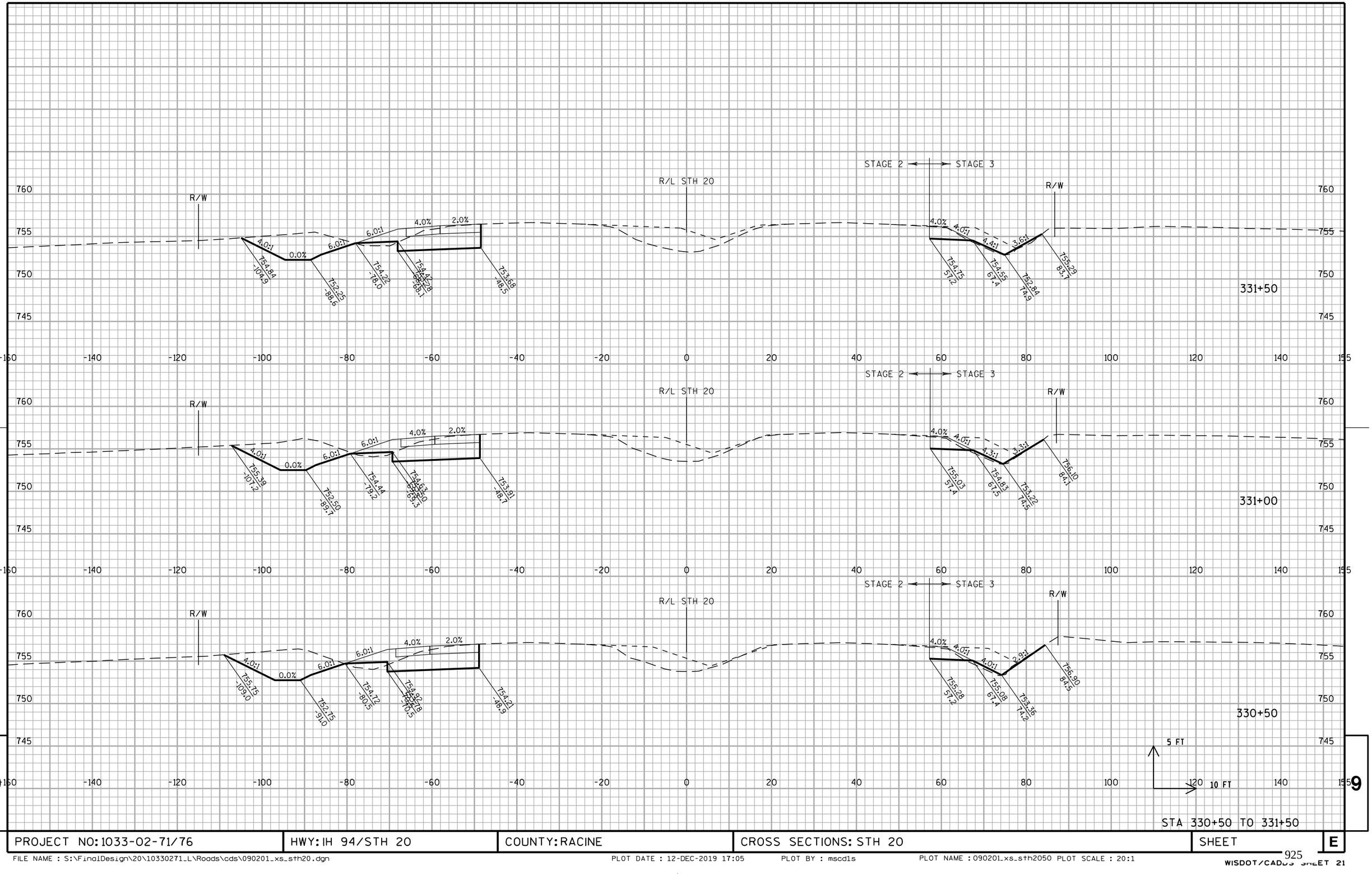
STA 327+50 TO 328+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E



STA 329+00 TO 330+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E



STA 330+50 TO 331+50

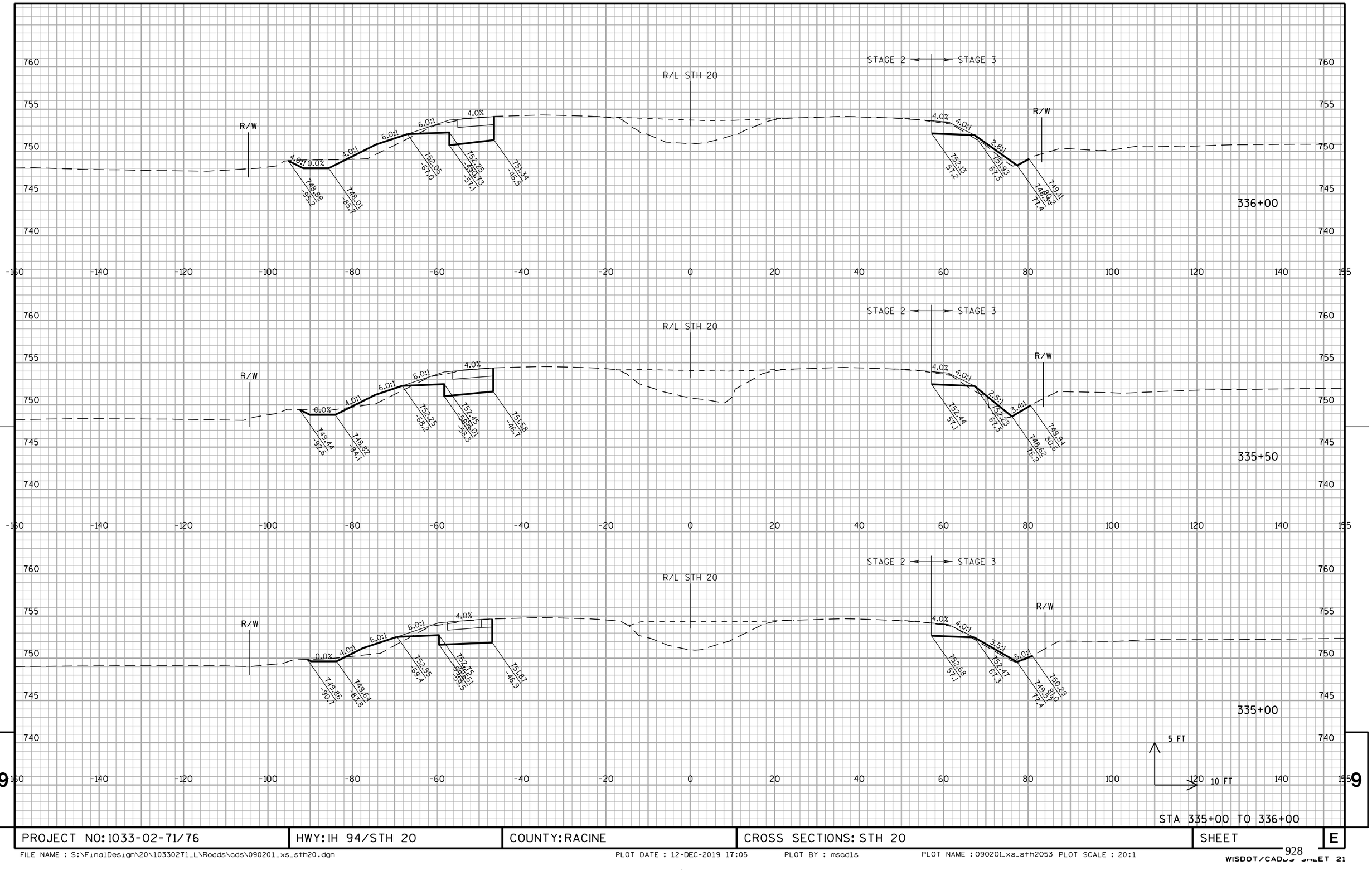
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

STA 332+00 TO 333+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

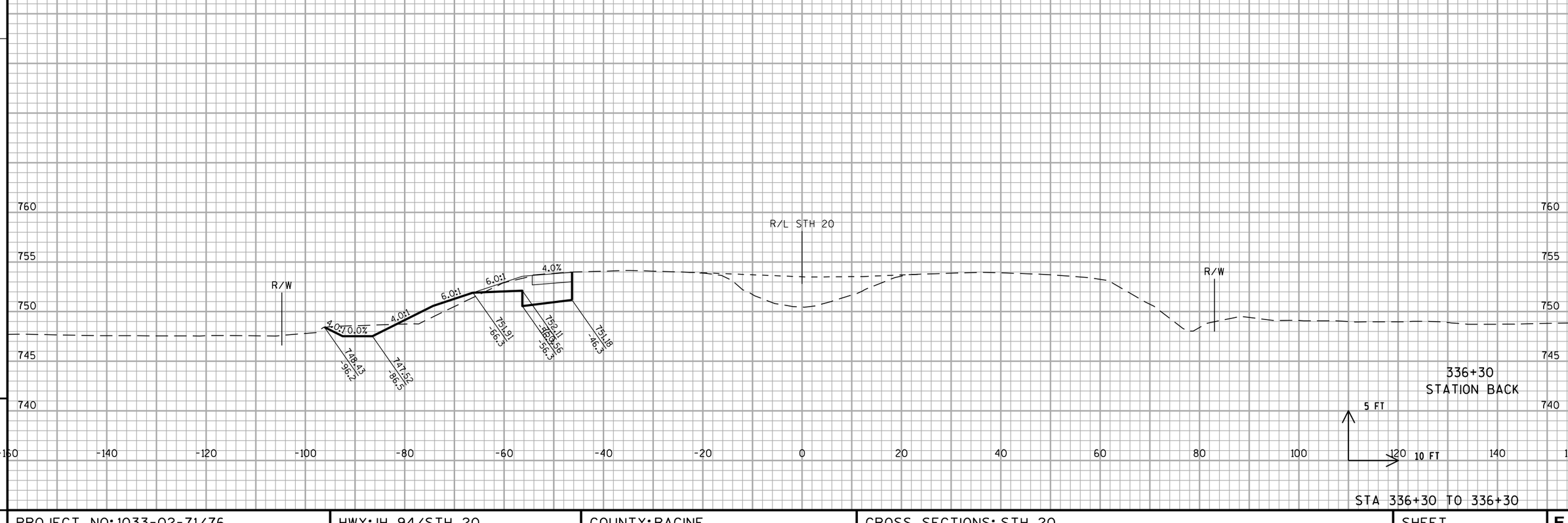
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090201_xs_sth20.dgn PLOT DATE : 12-DEC-2019 17:05 PLOT BY : mscd1s PLOT NAME : 090201_xs_sth2052 PLOT SCALE : 20:1



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET E

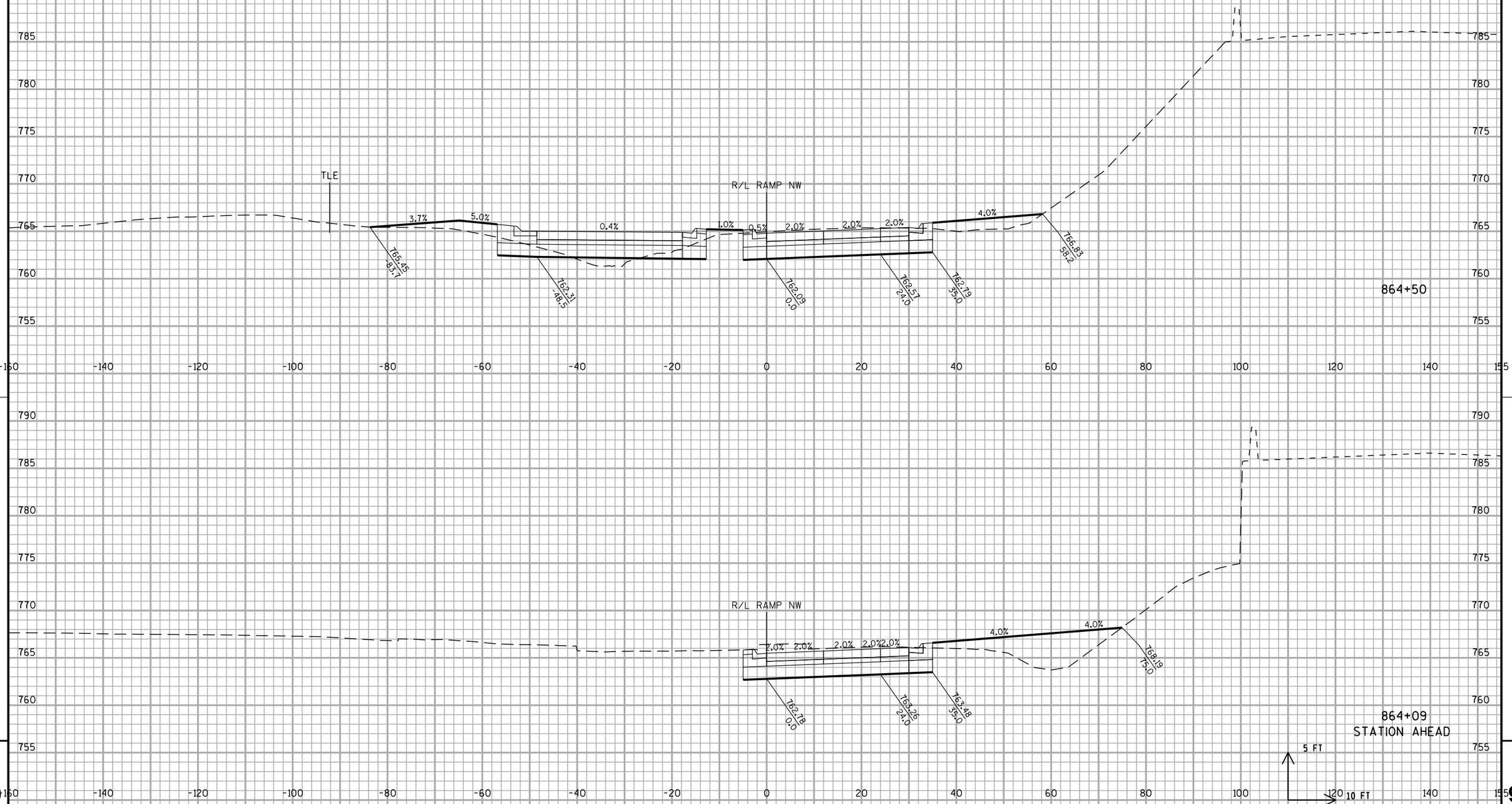
ALL WORK STAGE 2



STA 336+30 TO 336+30

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: STH 20	SHEET	E

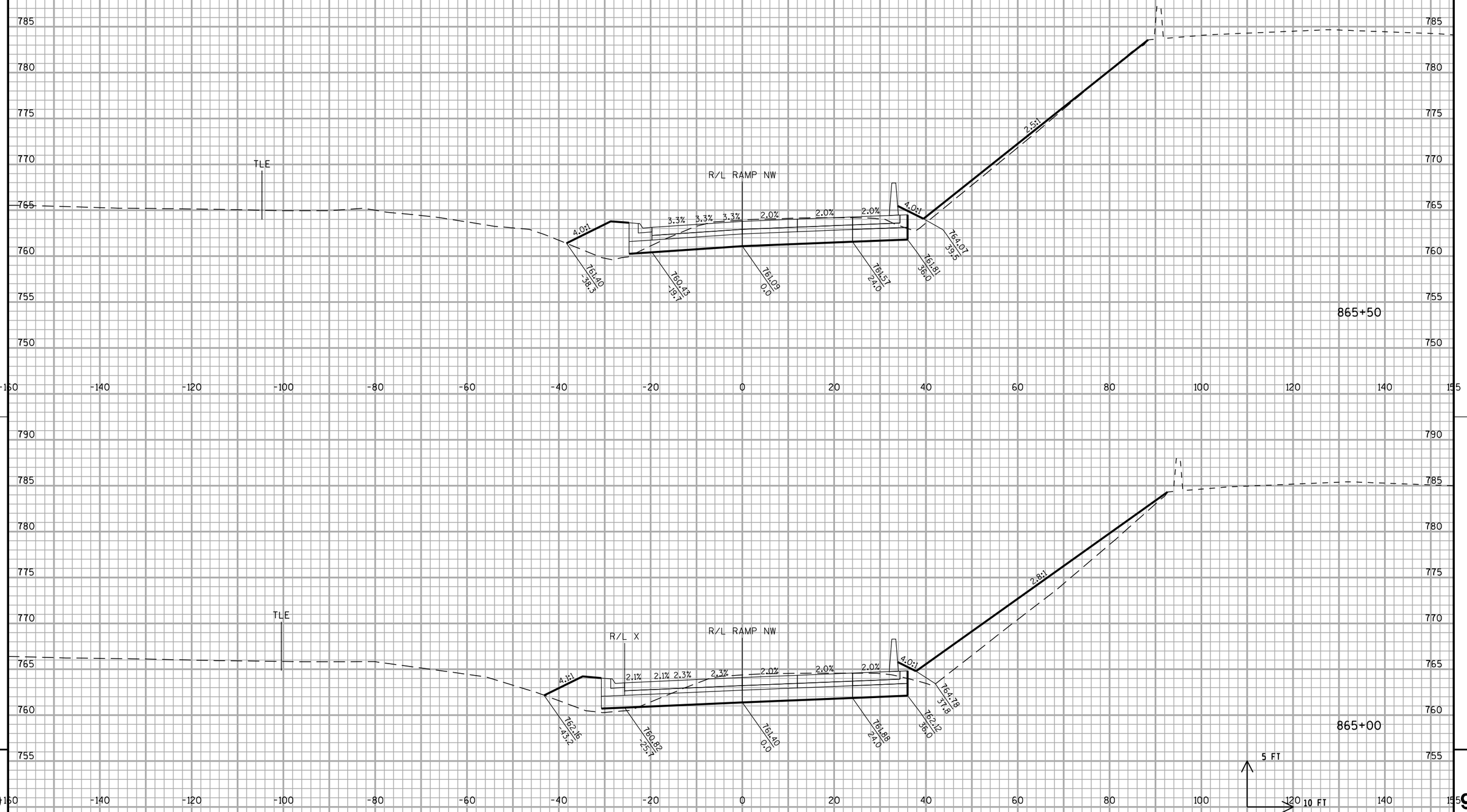
ALL WORK IN STAGE 2



STA 864+09 TO 864+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP NW	SHEET	E

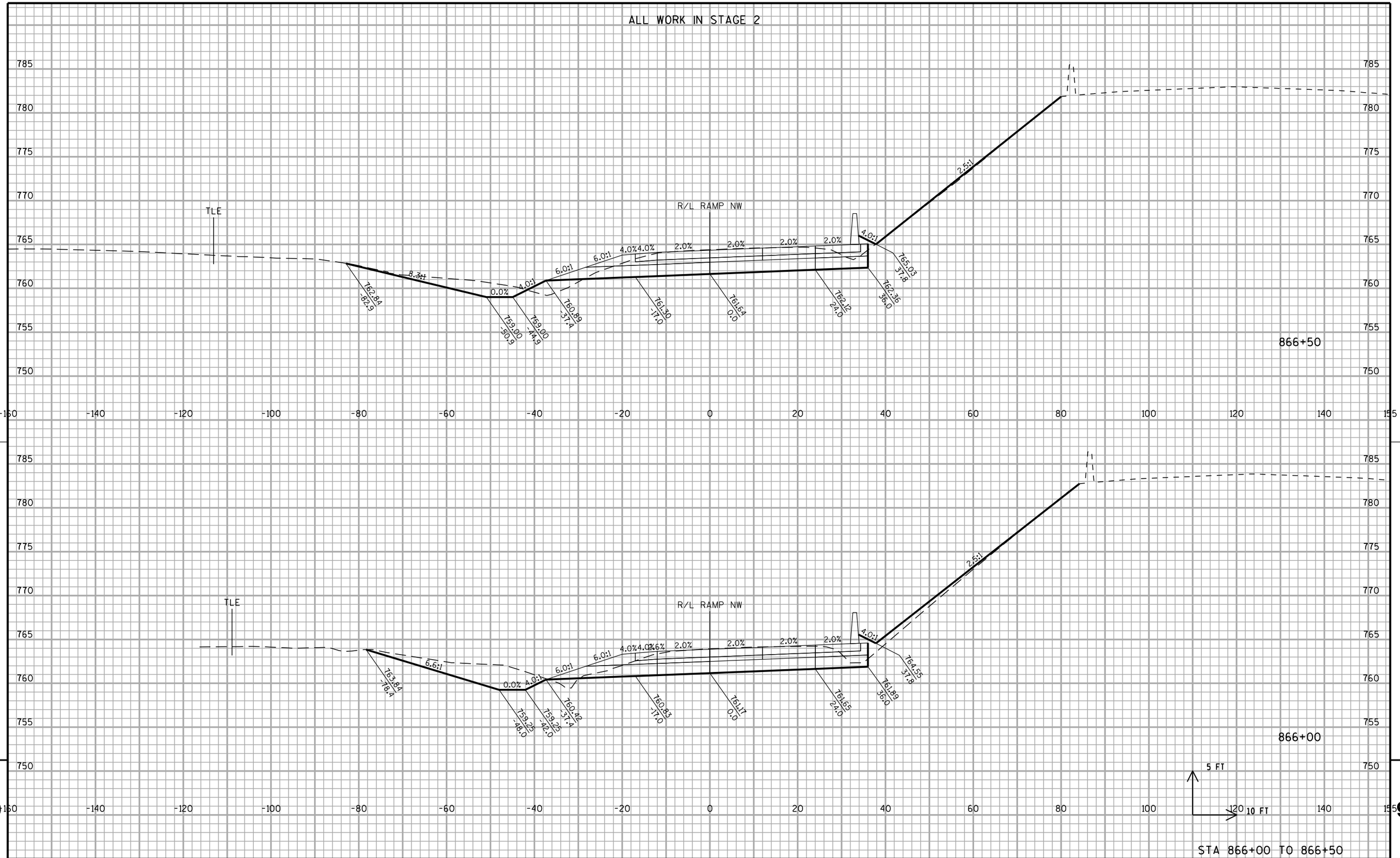
ALL WORK IN STAGE 2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP NW	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090202_xs_rampnw.dgn PLOT DATE : 12-DEC-2019 03:10 PLOT BY : mscd1s PLOT NAME : 090202_xs_rampnw1 PLOT SCALE : 20:1

ALL WORK IN STAGE 2

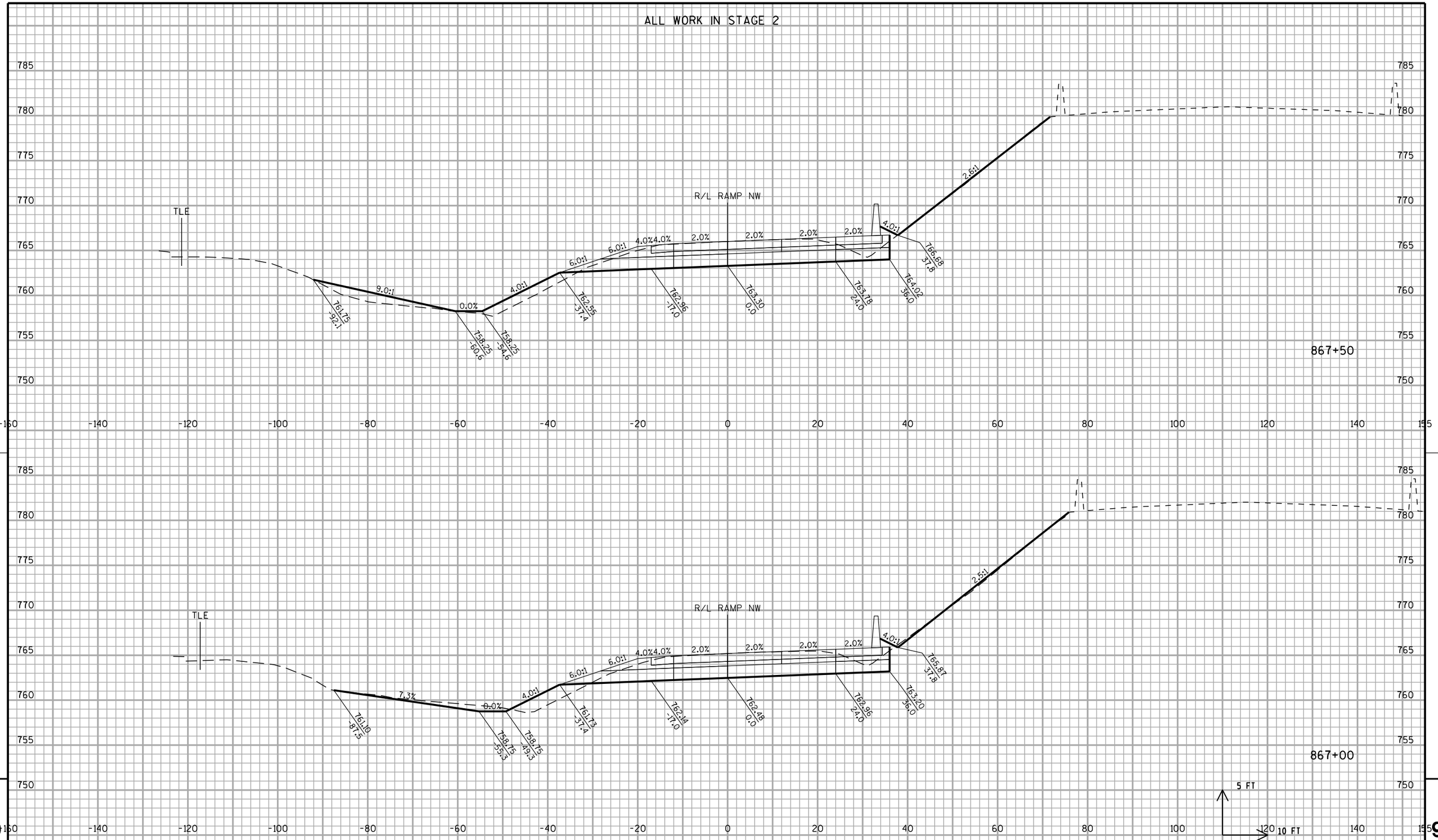


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP NW	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090202_xs_rampnw.dgn PLOT DATE : 12-DEC-2019 03:11 PLOT BY : mscd1s PLOT NAME : 090202_xs_rampnw2 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

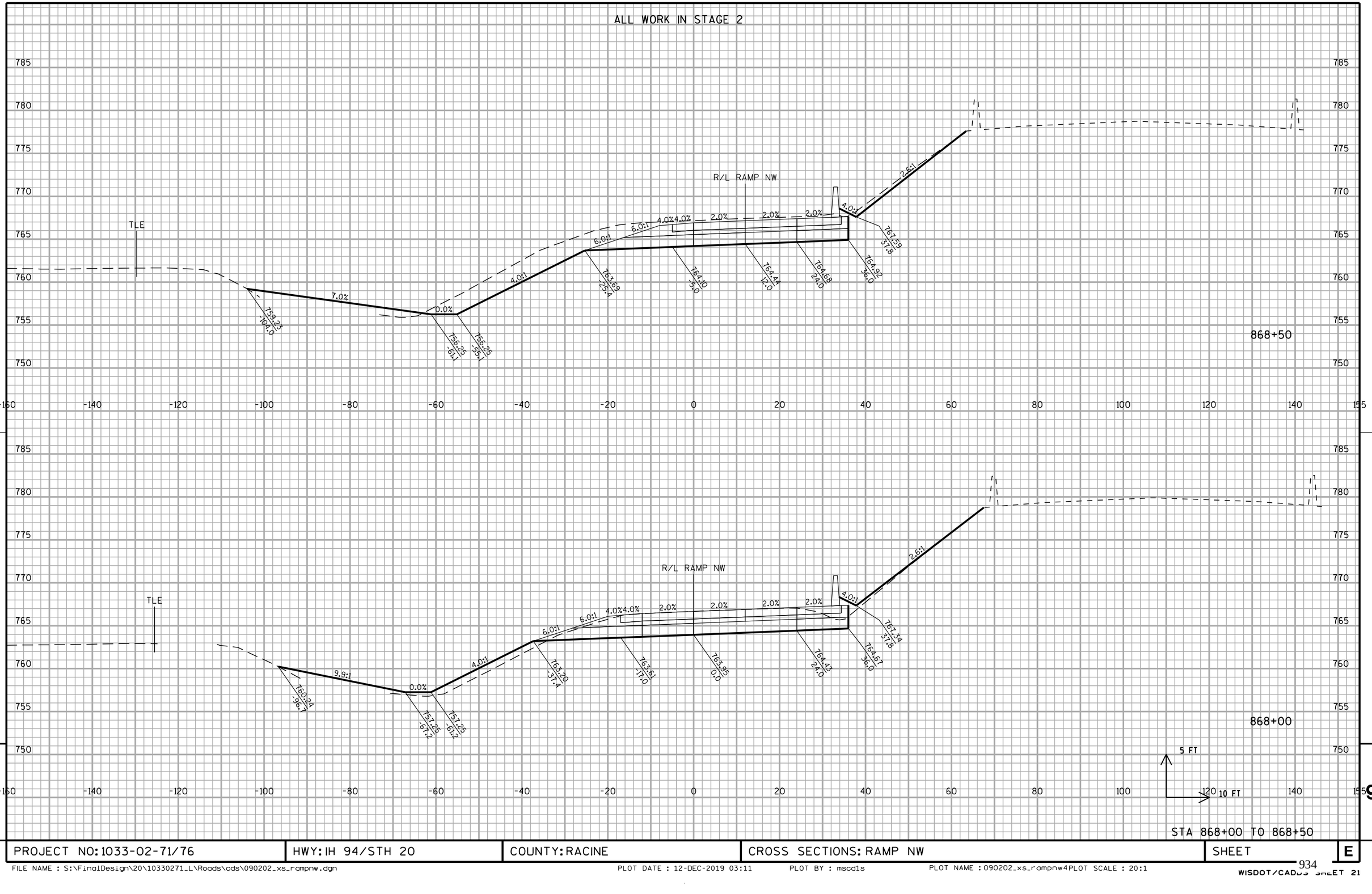
ALL WORK IN STAGE 2



STA 867+00 TO 867+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP NW	SHEET	E

ALL WORK IN STAGE 2



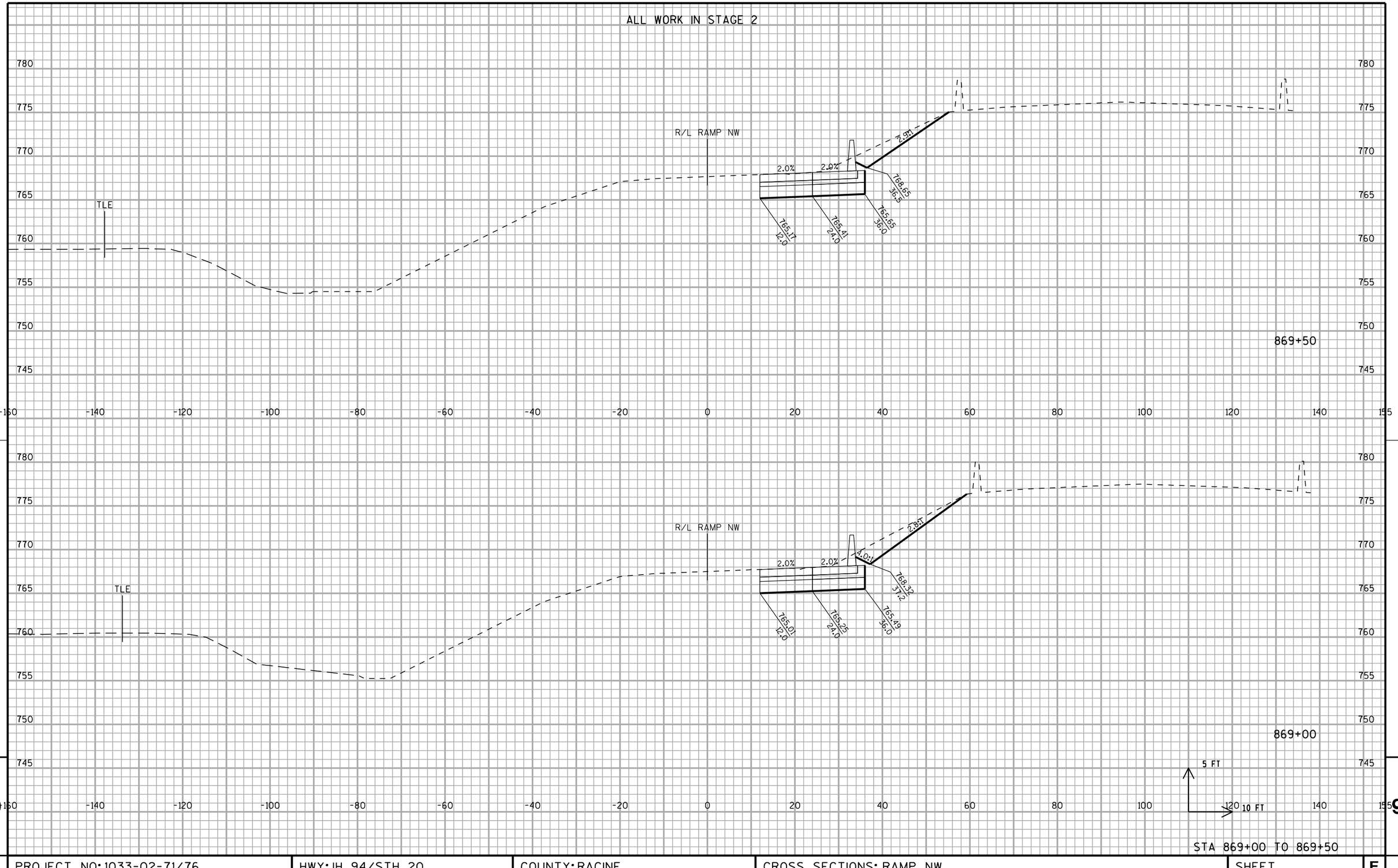
STA 868+00 TO 868+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP NW	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090202_xs_rampnw.dgn PLOT DATE : 12-DEC-2019 03:11 PLOT BY : mscdls PLOT NAME : 090202_xs_rampnw4PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

ALL WORK IN STAGE 2

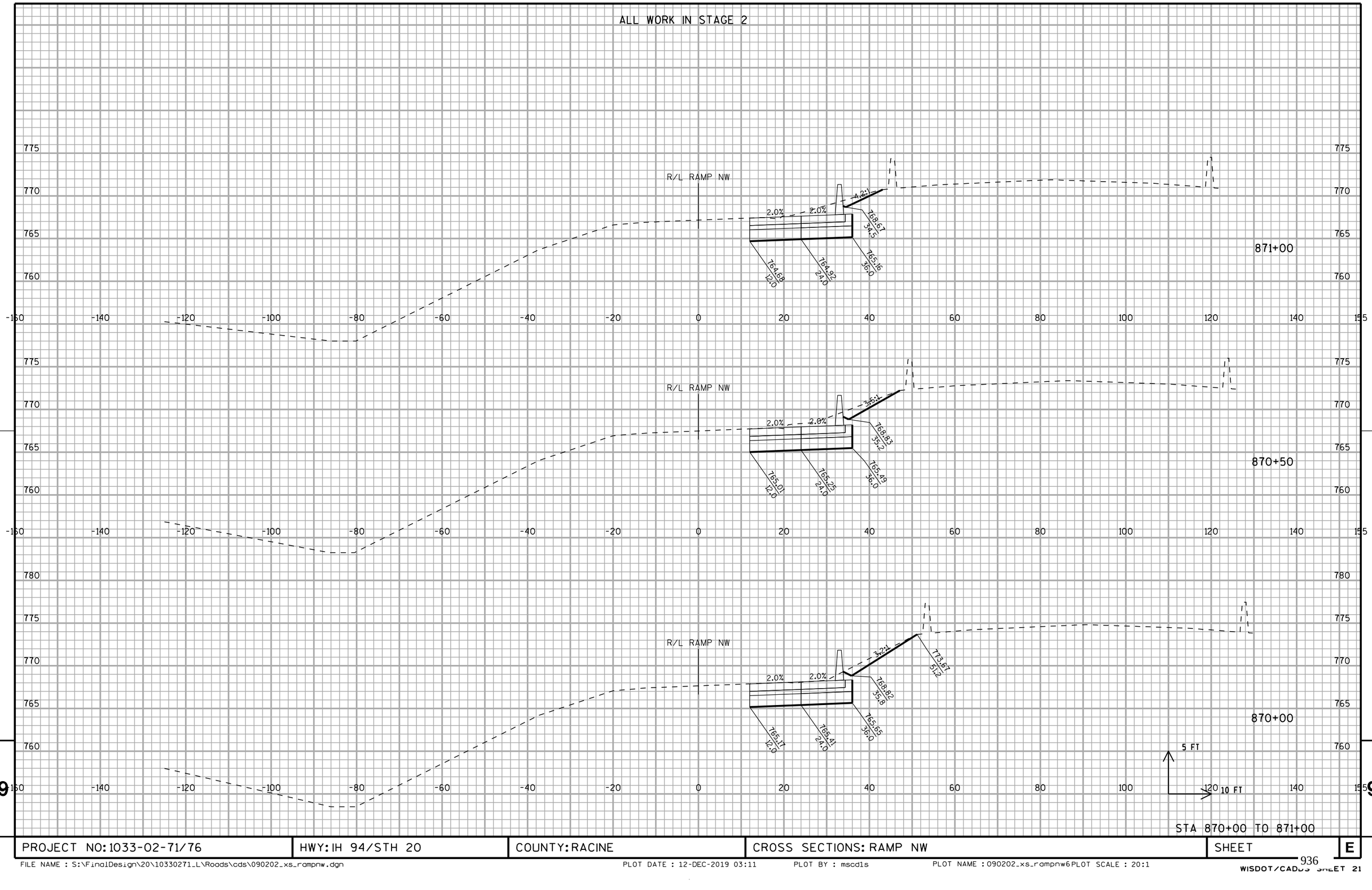


STA 869+00 TO 869+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP NW	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090202_xs_rampnw.dgn PLOT DATE : 12-DEC-2019 03:11 PLOT BY : mscd1s PLOT NAME : 090202_xs_rampnw5 PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

ALL WORK IN STAGE 2



STA 870+00 TO 871+00

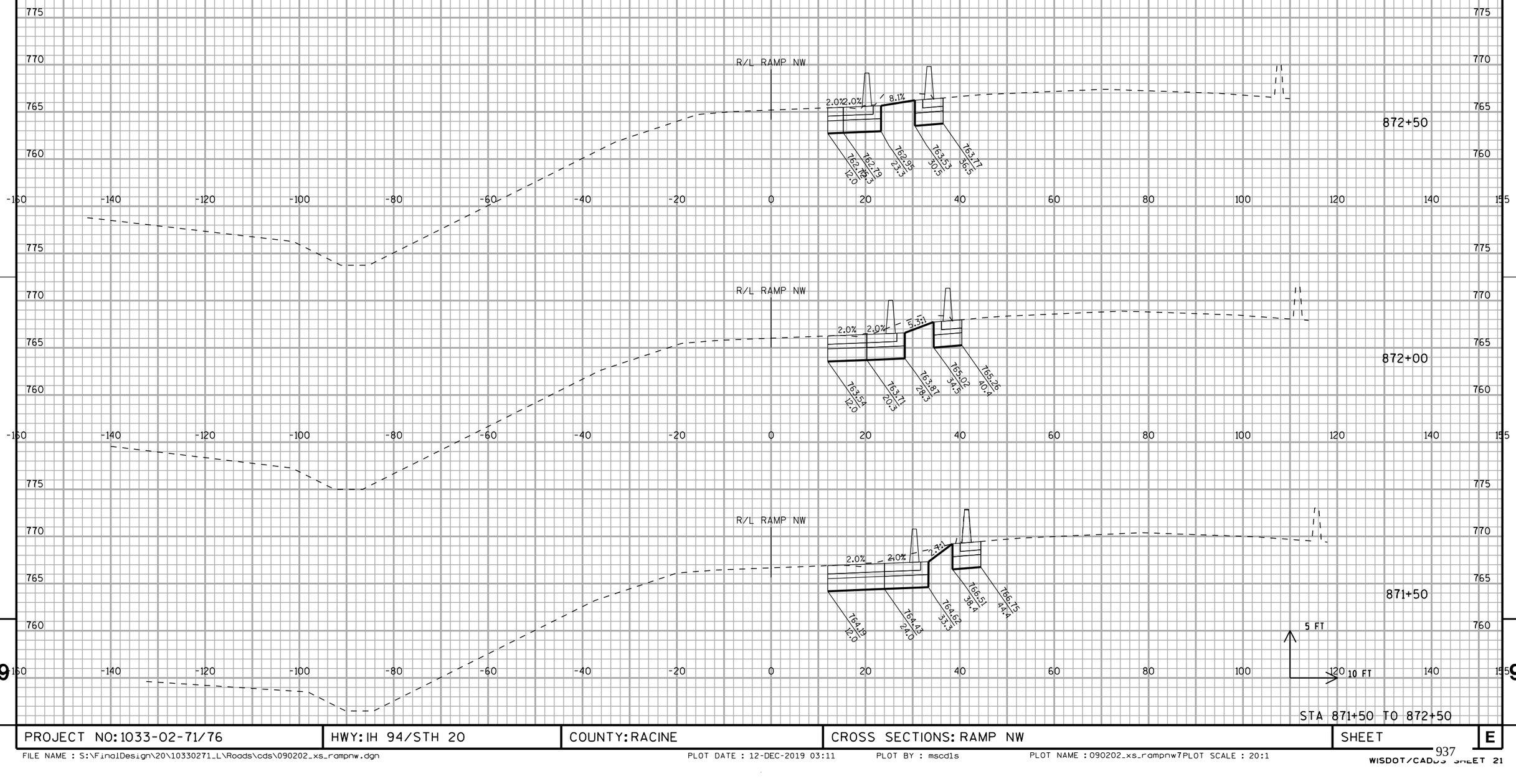
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP NW	SHEET	E

9 9

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090202_xs_rampnw.dgn PLOT DATE : 12-DEC-2019 03:11 PLOT BY : mscd1s PLOT NAME : 090202_xs_rampnw6PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

ALL WORK IN STAGE 2

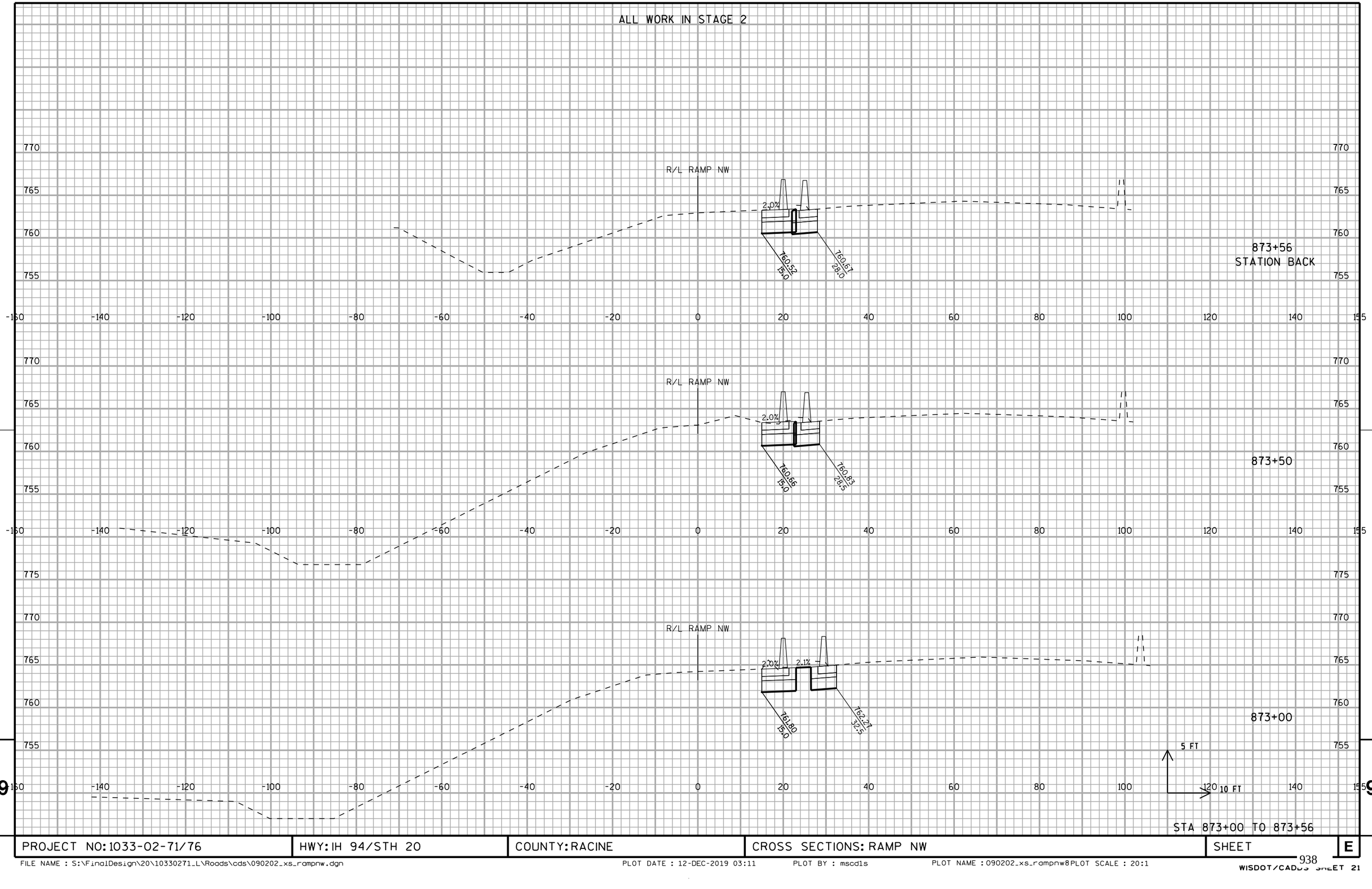


STA 871+50 TO 872+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP NW	SHEET	E

9 9

ALL WORK IN STAGE 2

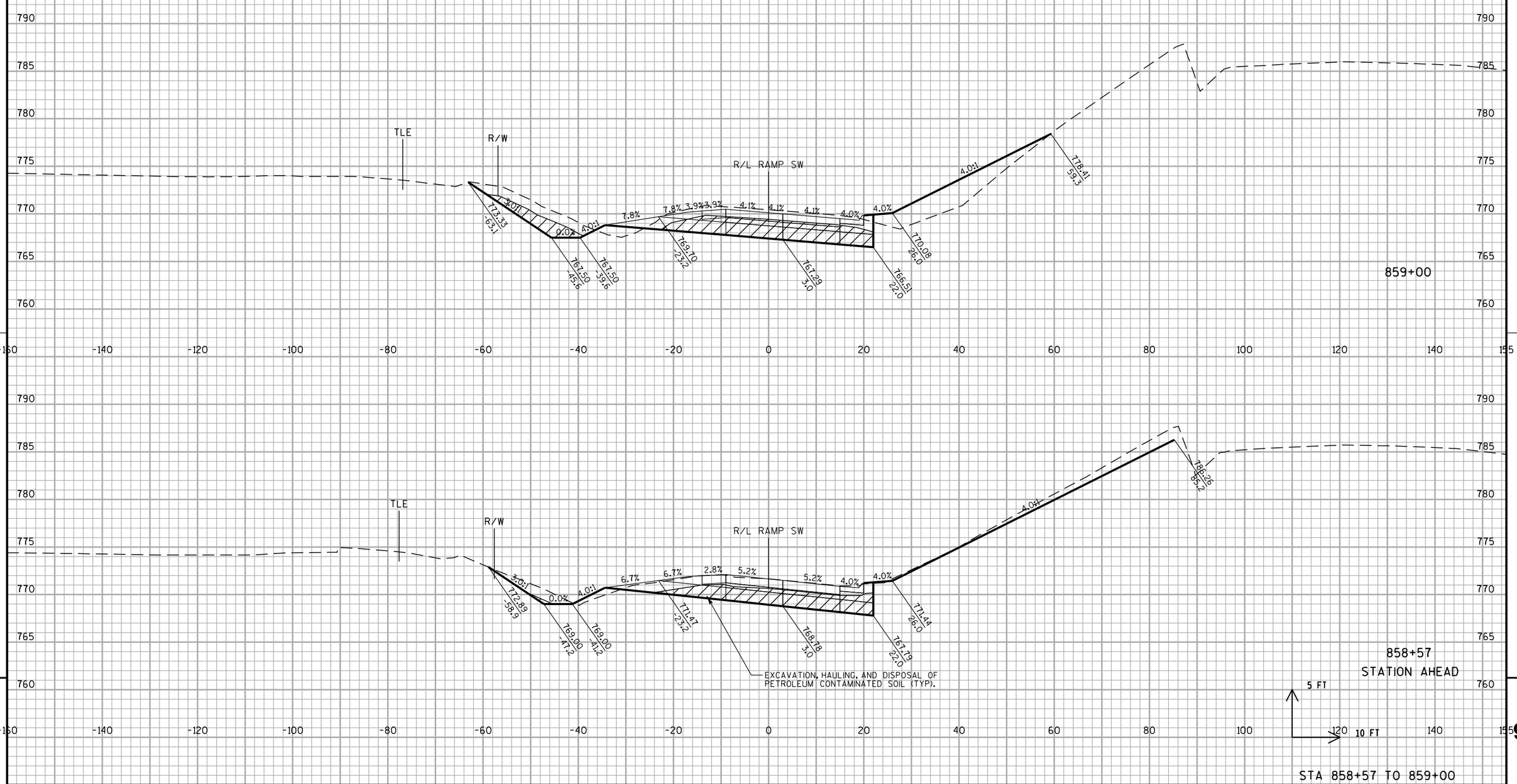


STA 873+00 TO 873+56

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP NW	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090202_xs_rampnw.dgn PLOT DATE : 12-DEC-2019 03:11 PLOT BY : mscd1s PLOT NAME : 090202_xs_rampnw8PLOT SCALE : 20:1

ALL WORK STAGE 2



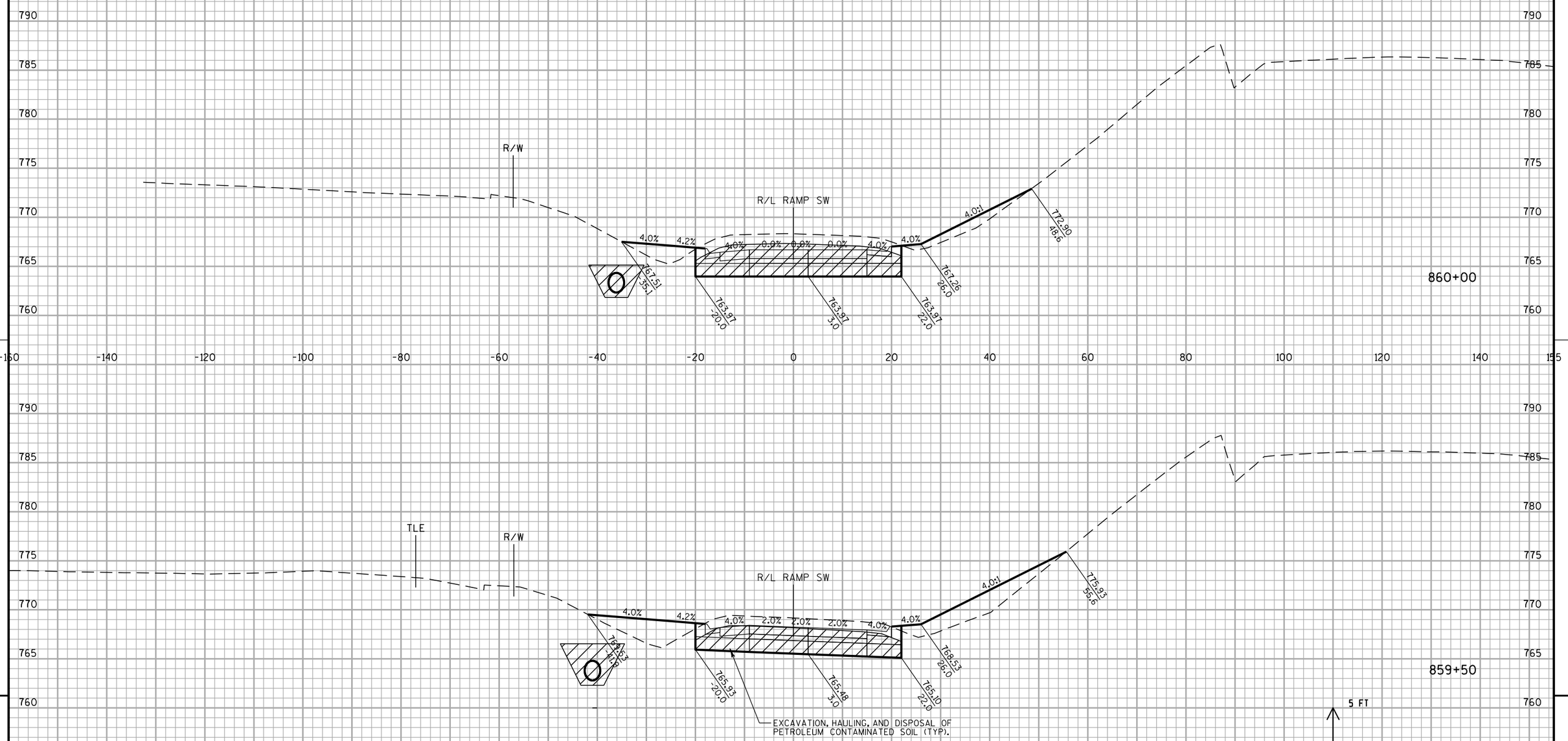
STA 858+57 TO 859+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP SW	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090203_xs_rampsw.dgn PLOT DATE : 12-DEC-2019 03:11 PLOT BY : mscd1s PLOT NAME : 090203_xs_rampsw PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

ALL WORK STAGE 2

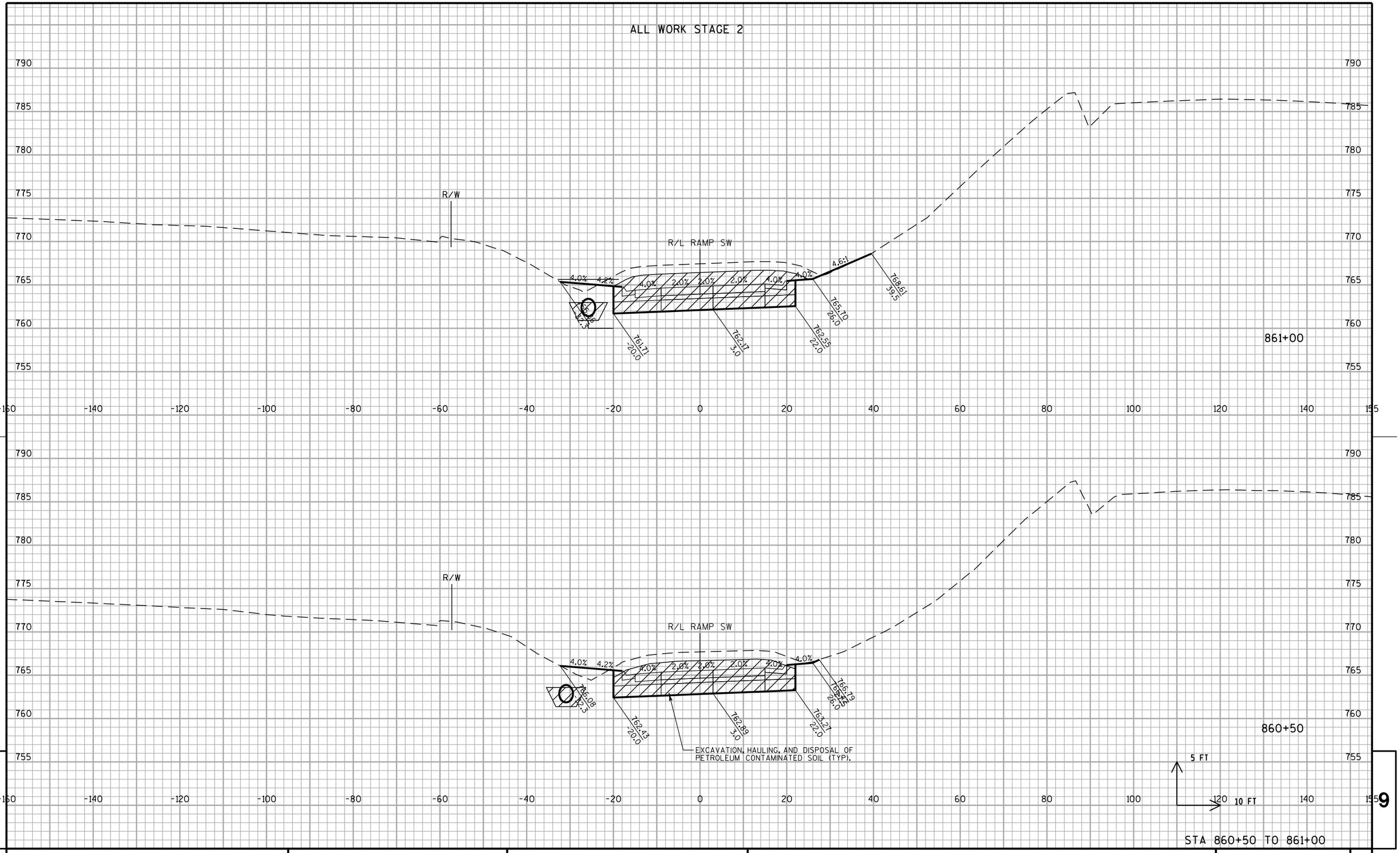


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP SW	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090203_xs_rampsw.dgn PLOT DATE : 12-DEC-2019 03:11 PLOT BY : mscd1s PLOT NAME : 090203_xs_rampsw1 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

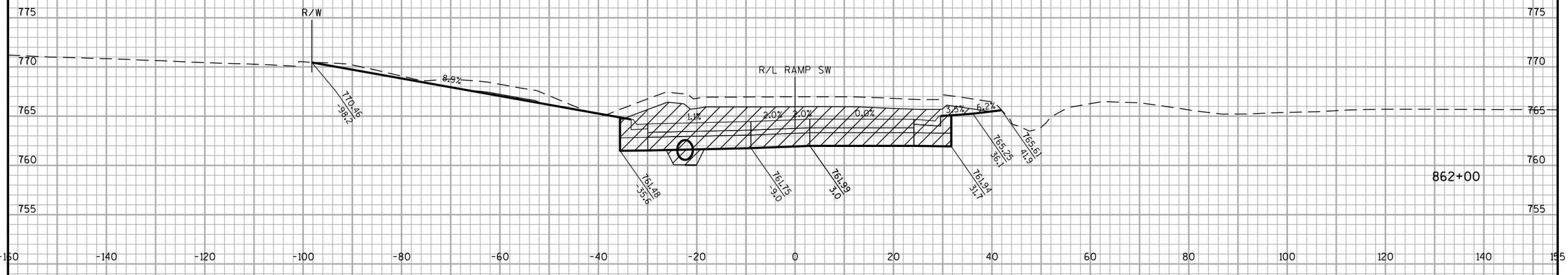
ALL WORK STAGE 2



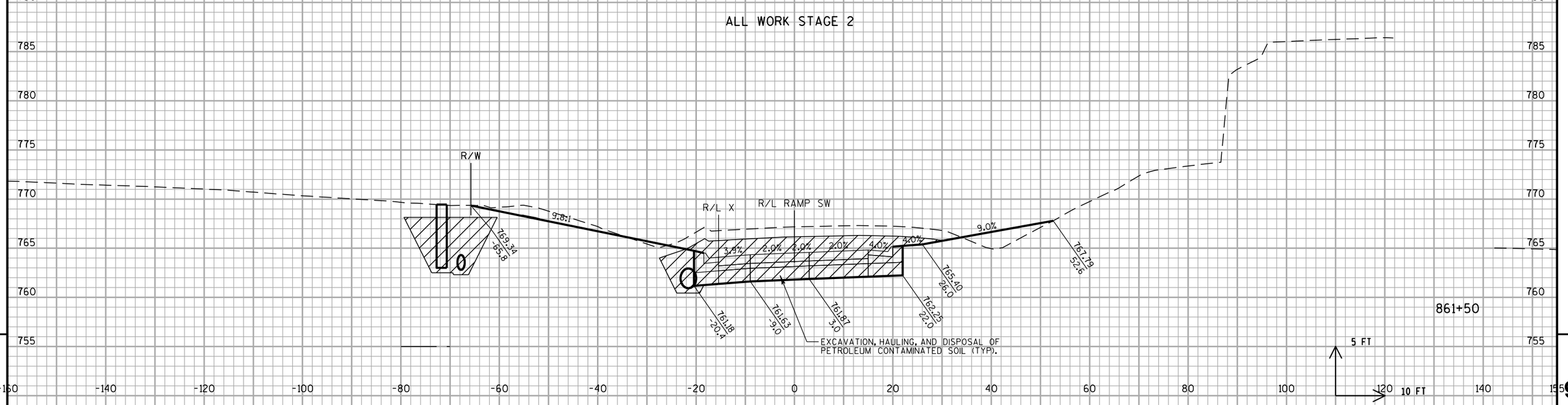
STA 860+50 TO 861+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP SW	SHEET	E

ALL WORK STAGE 3



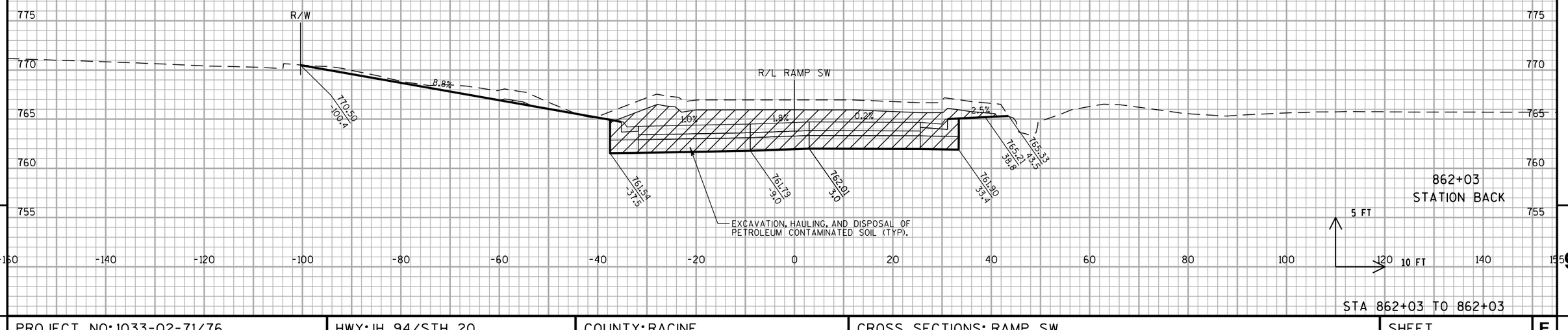
ALL WORK STAGE 2



STA 861+50 TO 862+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP SW	SHEET	E

ALL WORK STAGE 3

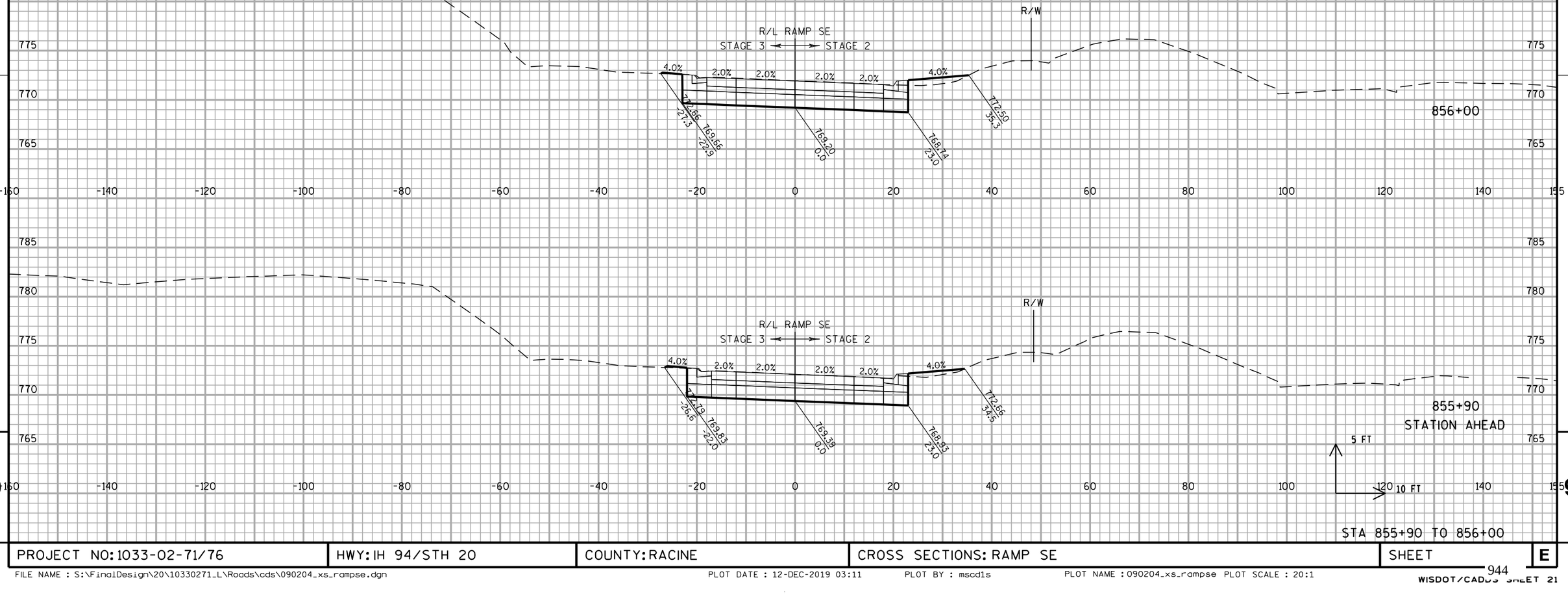


STA 862+03 TO 862+03

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP SW	SHEET	E

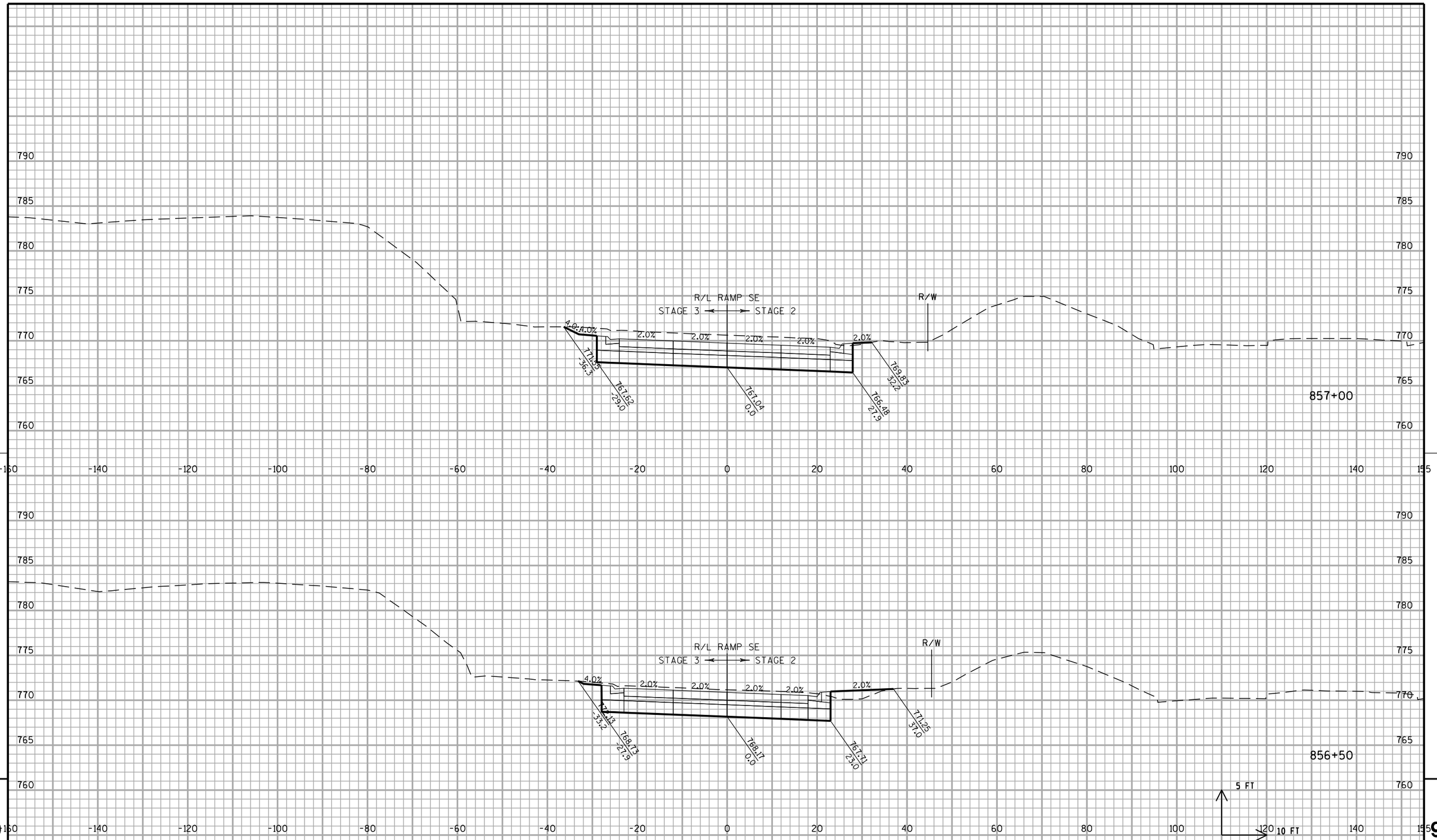
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WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP SE	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090204_xs_rampse.dgn PLOT DATE : 12-DEC-2019 03:11 PLOT BY : mscdls PLOT NAME : 090204_xs_rampse PLOT SCALE : 20:1

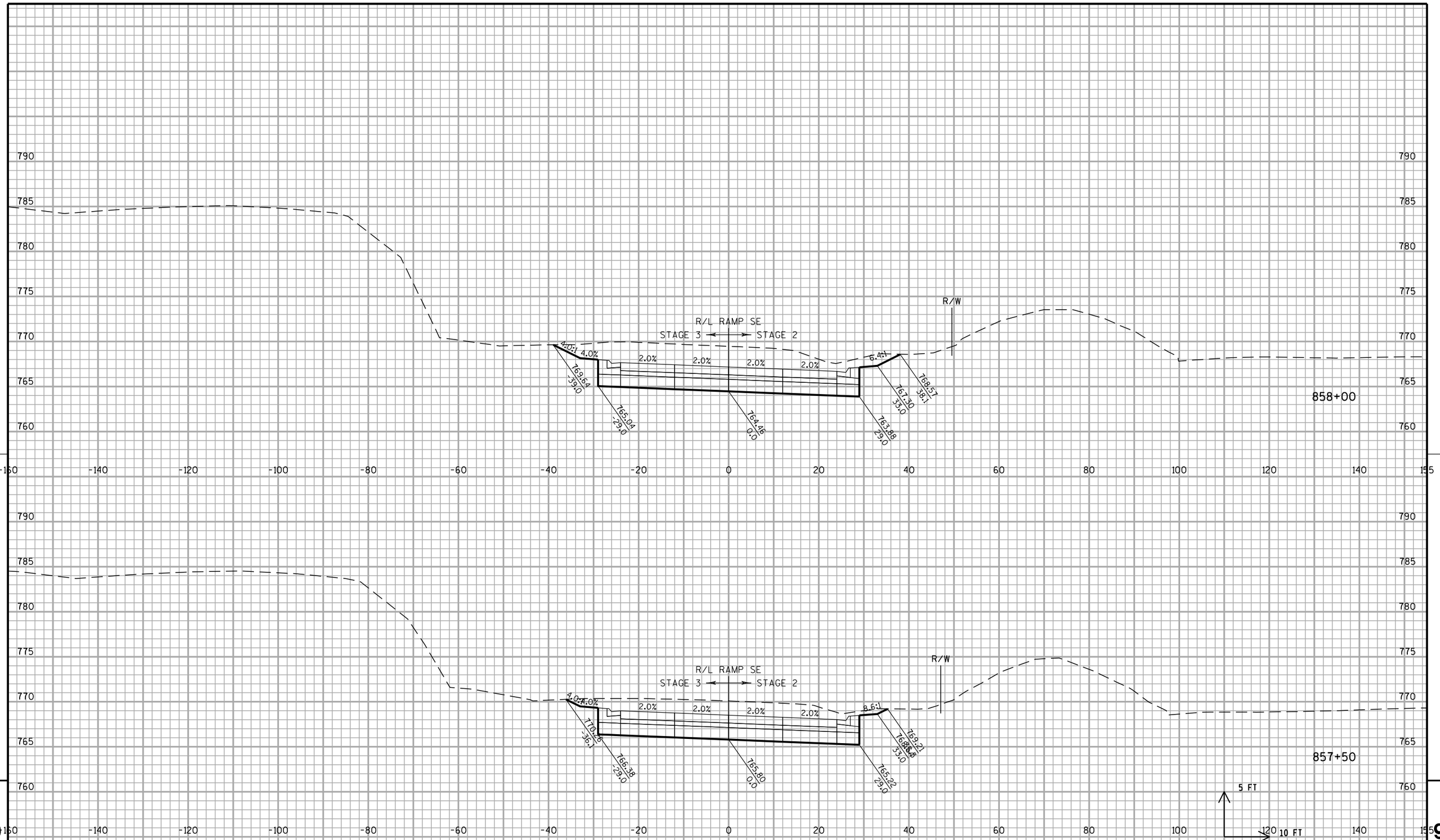


STA 856+50 TO 857+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP SE	SHEET	E

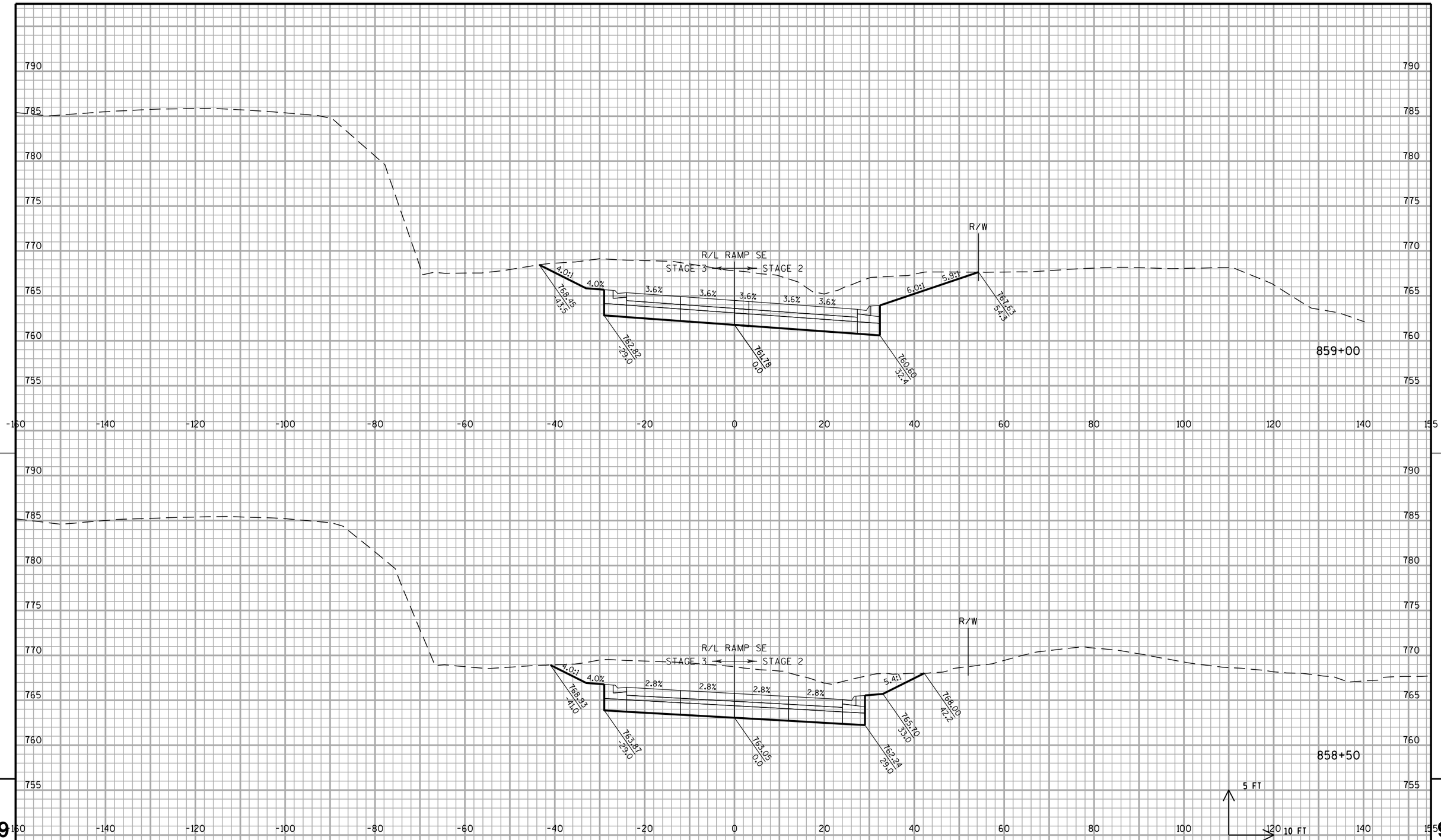
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WISDOT/CADDS SHEET 21



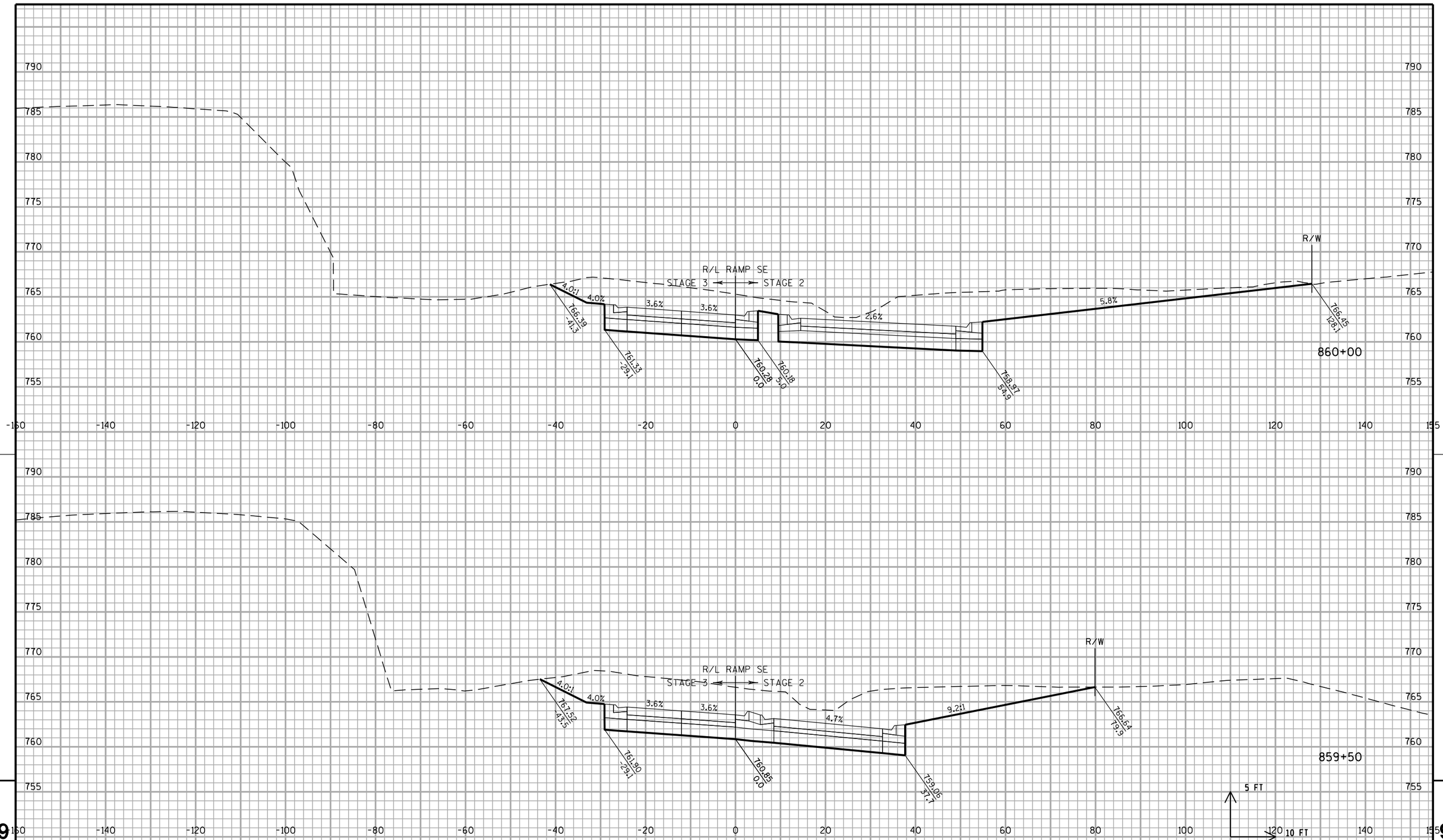
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP SE	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090204_xs_rampse.dgn PLOT DATE : 12-DEC-2019 03:11 PLOT BY : mscd1s PLOT NAME : 090204_xs_rampse2 PLOT SCALE : 20:1



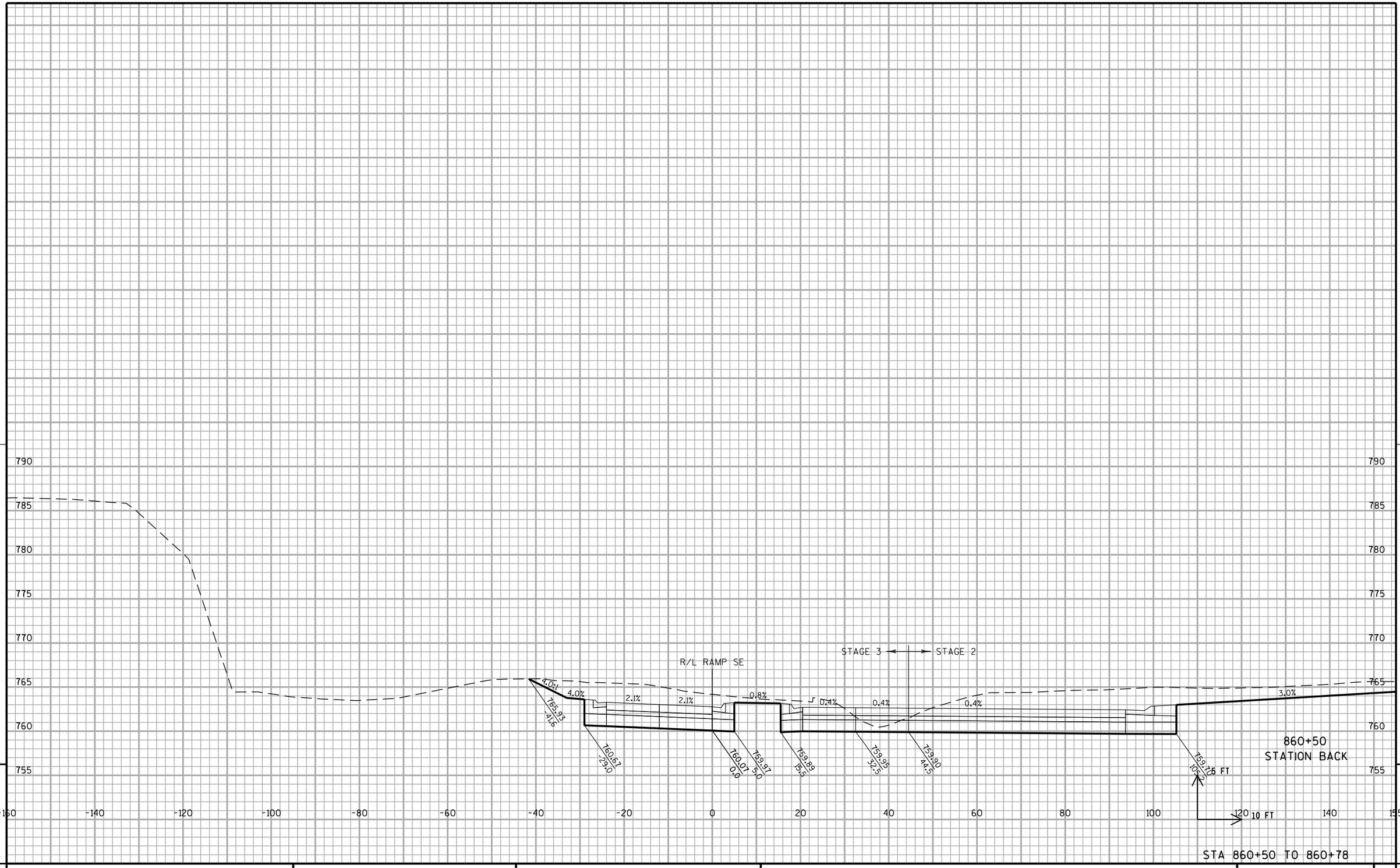
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP SE	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090204_xs_rampse.dgn PLOT DATE : 12-DEC-2019 03:11 PLOT BY : mscd1s PLOT NAME : 090204_xs_rampse3 PLOT SCALE : 20:1



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP SE	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090204_xs_rampse.dgn PLOT DATE : 12-DEC-2019 03:11 PLOT BY : mscd1s PLOT NAME : 090204_xs_rampse4 PLOT SCALE : 20:1

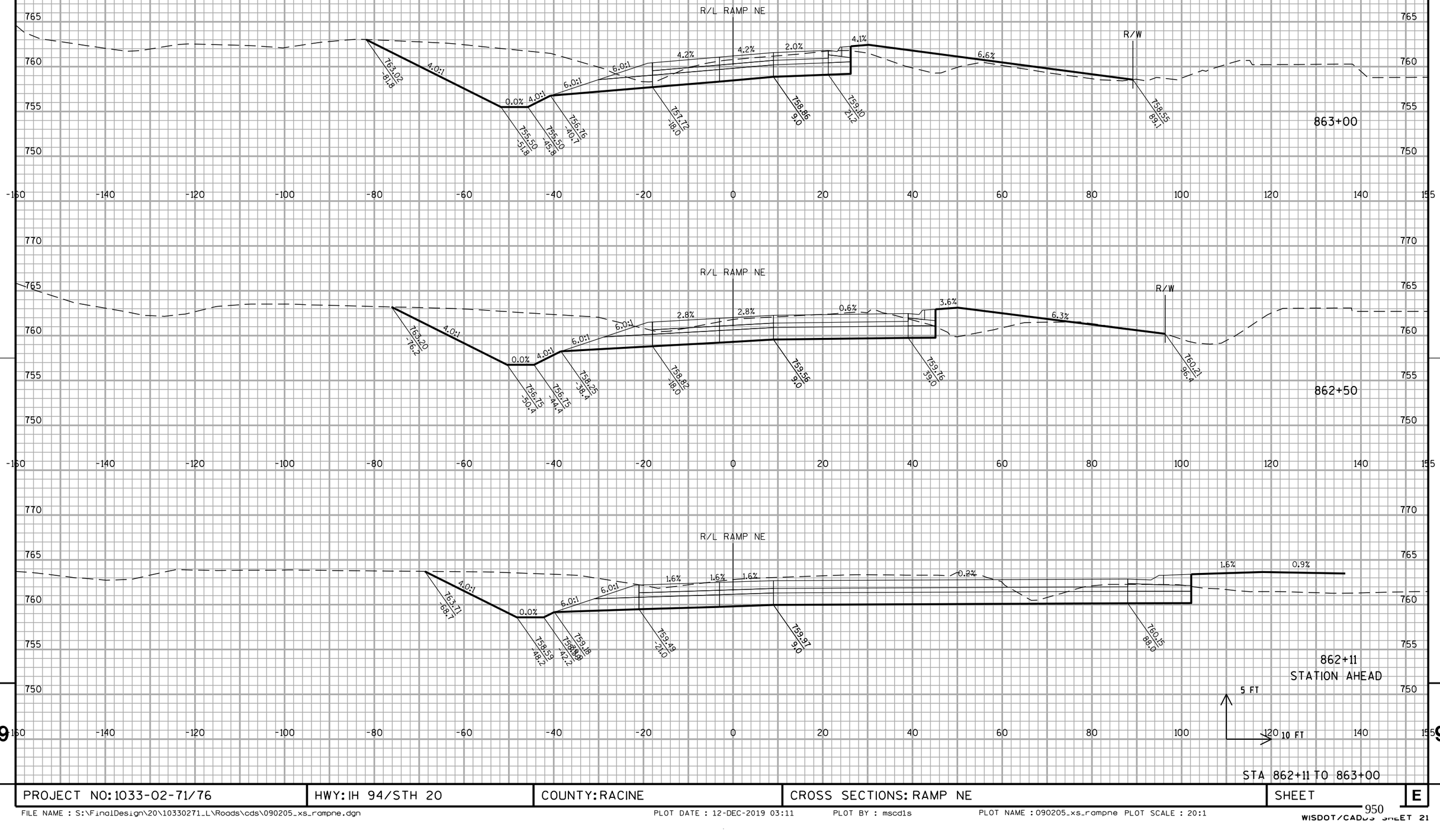


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACIQUE	CROSS SECTIONS: RAMP SE	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090204_xs_rampse.dgn PLOT DATE : 12-DEC-2019 03:11 PLOT BY : mscd1s PLOT NAME : 090204_xs_rampse5 PLOT SCALE : 20:1

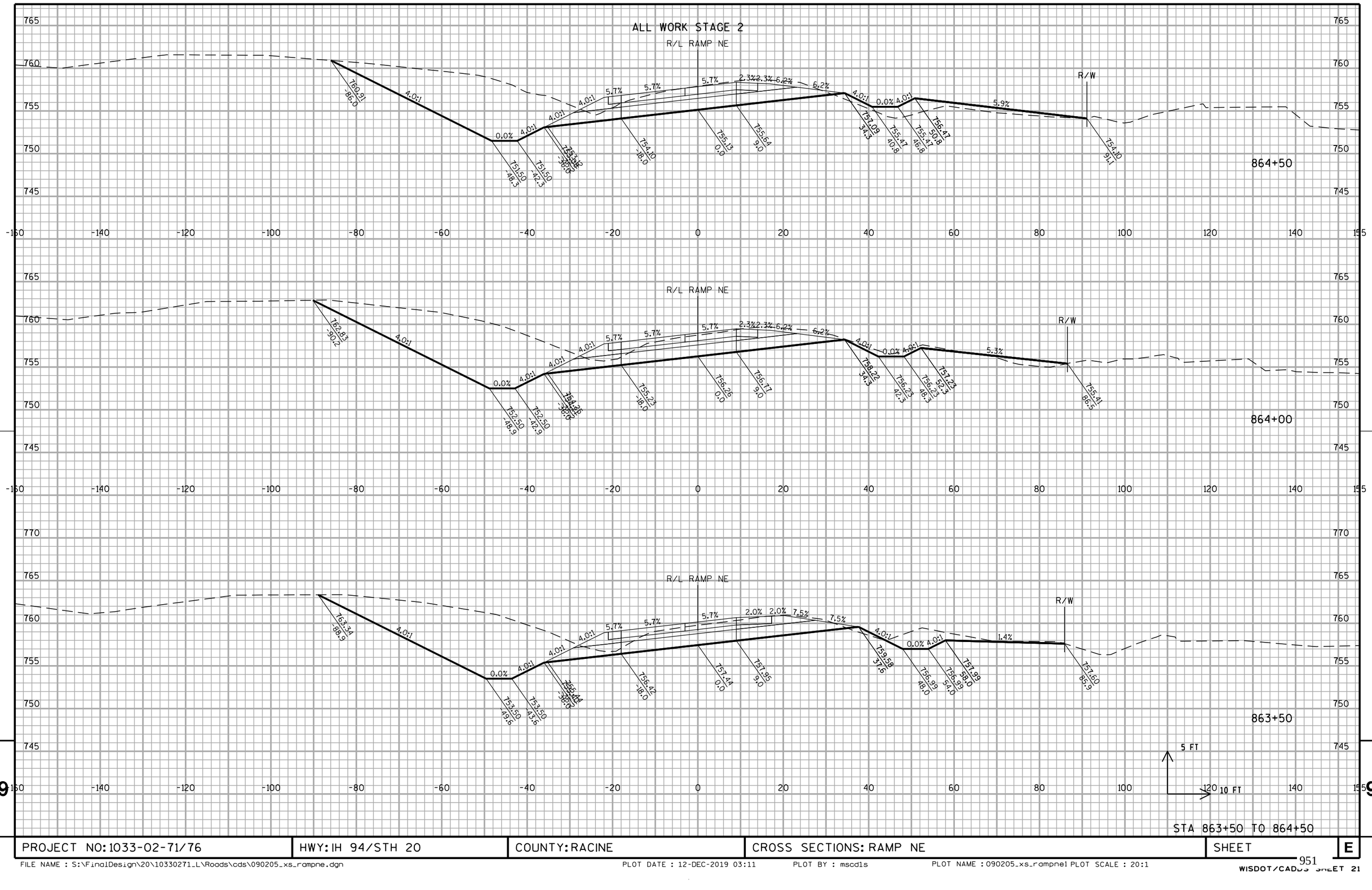
WISDOT/CADDS SHEET 21

ALL WORK STAGE 2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP NE	SHEET	E

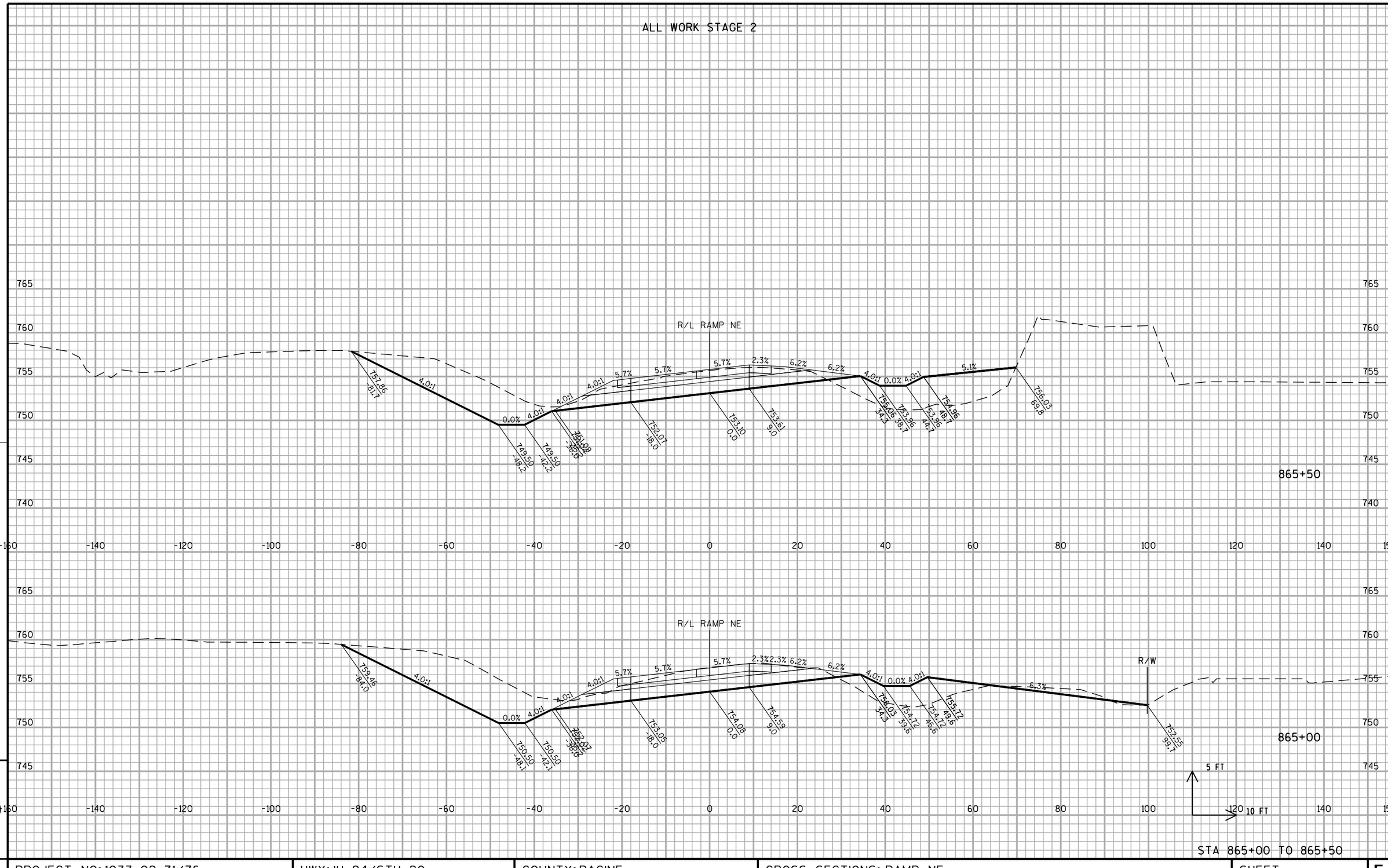
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP NE	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090205_xs_rampne.dgn PLOT DATE : 12-DEC-2019 03:11 PLOT BY : mscdls PLOT NAME : 090205_xs_rampne1 PLOT SCALE : 20:1

ALL WORK STAGE 2

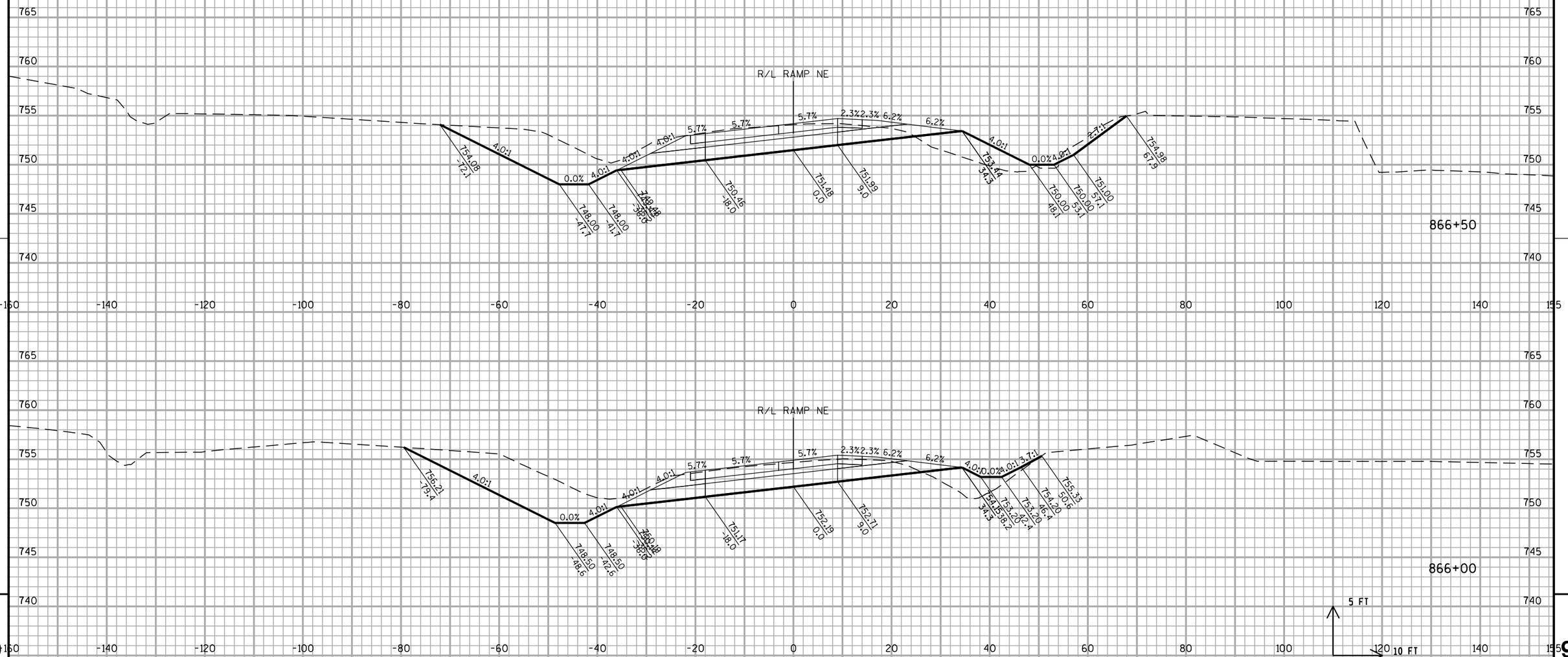


STA 865+00 TO 865+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP NE	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090205_xs_rampne.dgn PLOT DATE : 12-DEC-2019 03:11 PLOT BY : mscd1s PLOT NAME : 090205_xs_rampne2 PLOT SCALE : 20:1

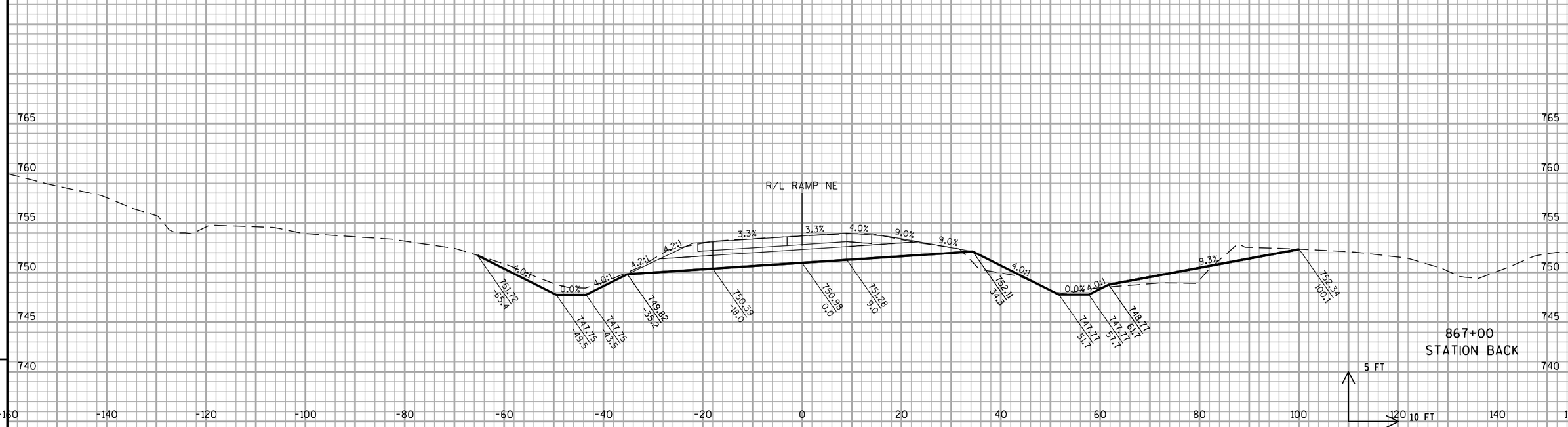
ALL WORK STAGE 2



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP NE	SHEET	E

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ALL WORK STAGE 2

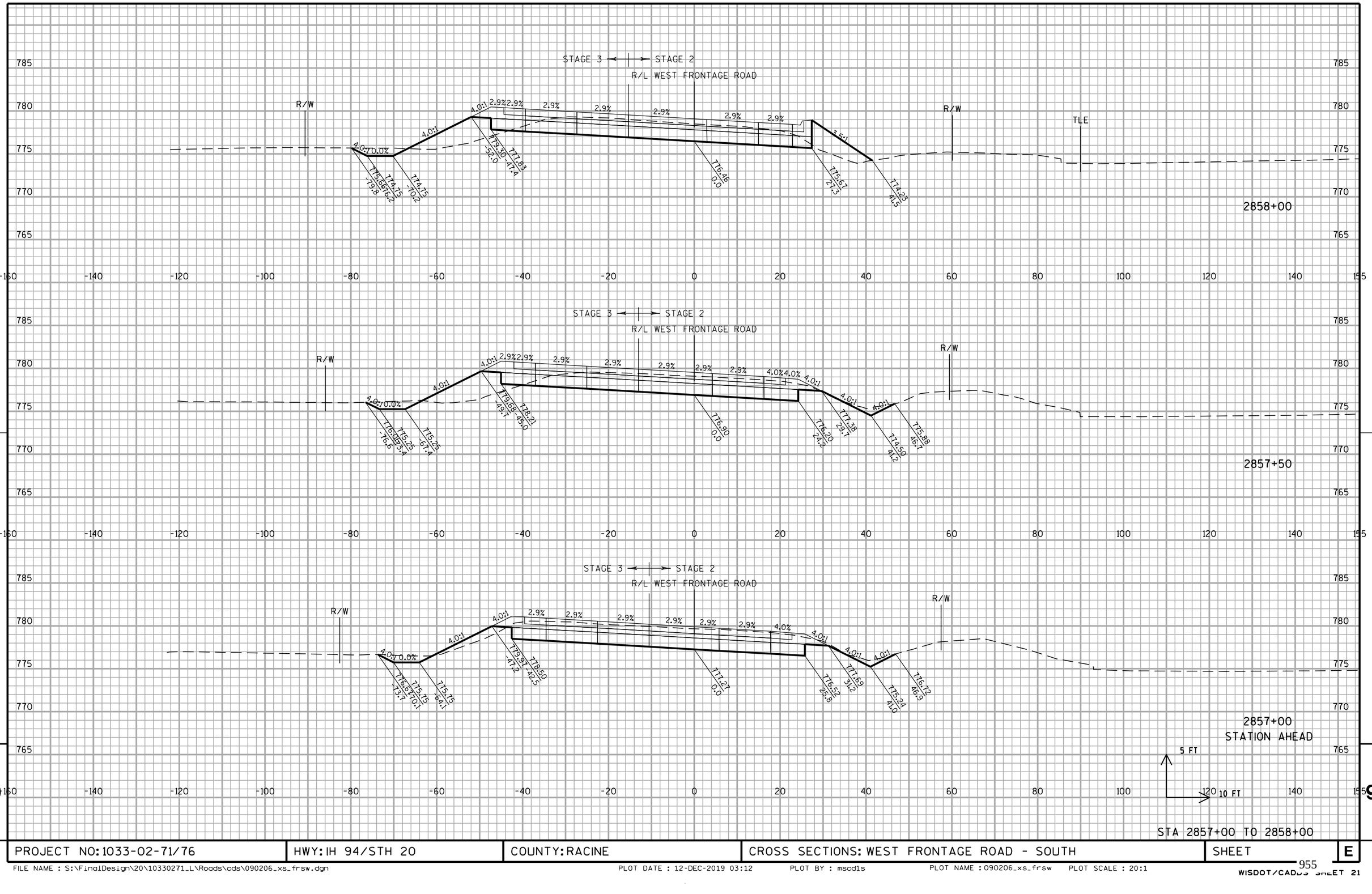


STA 867+00 TO 867+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RAMP NE	SHEET	E

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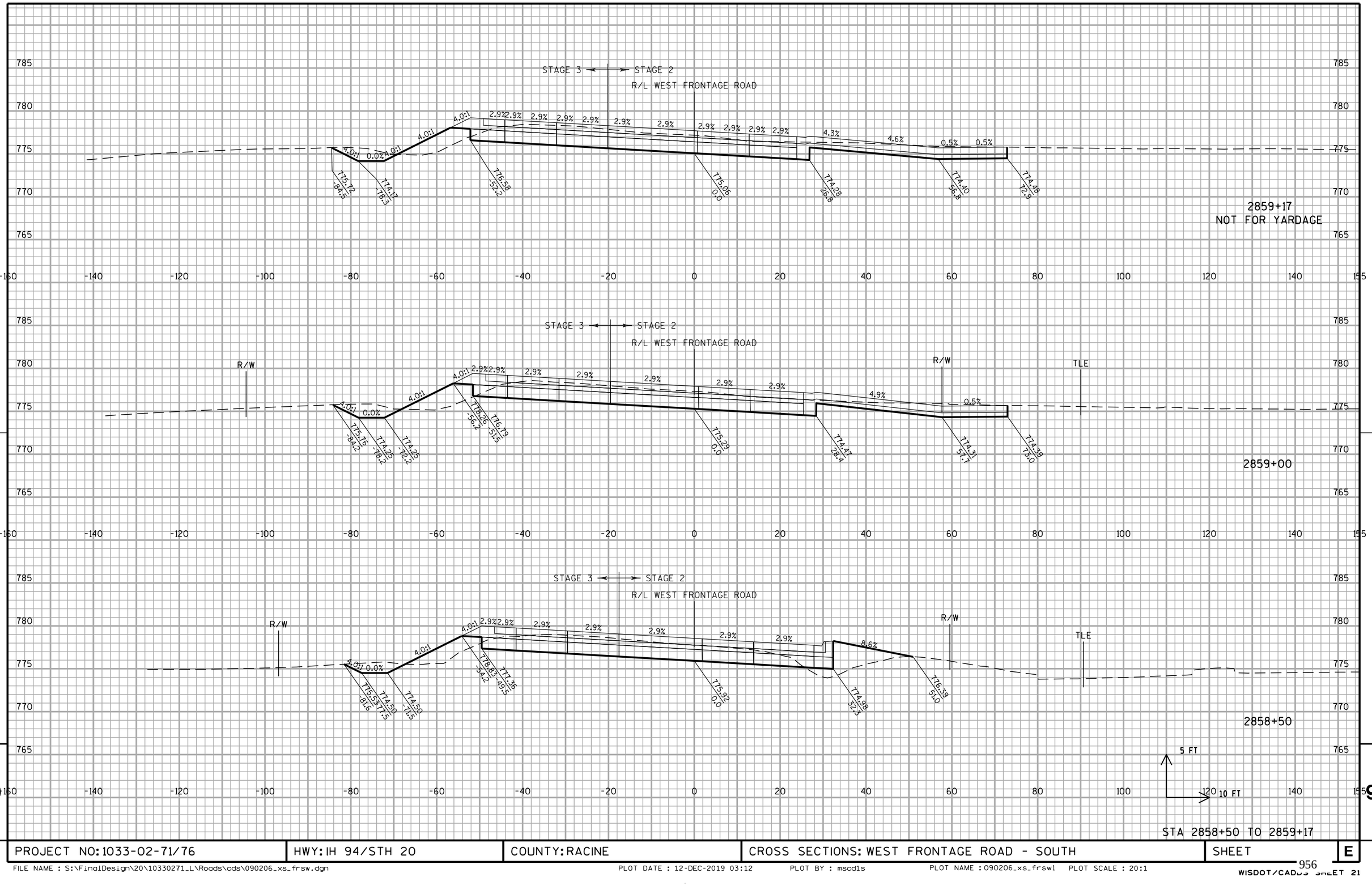
WISDOT/CADDS SHEET 21



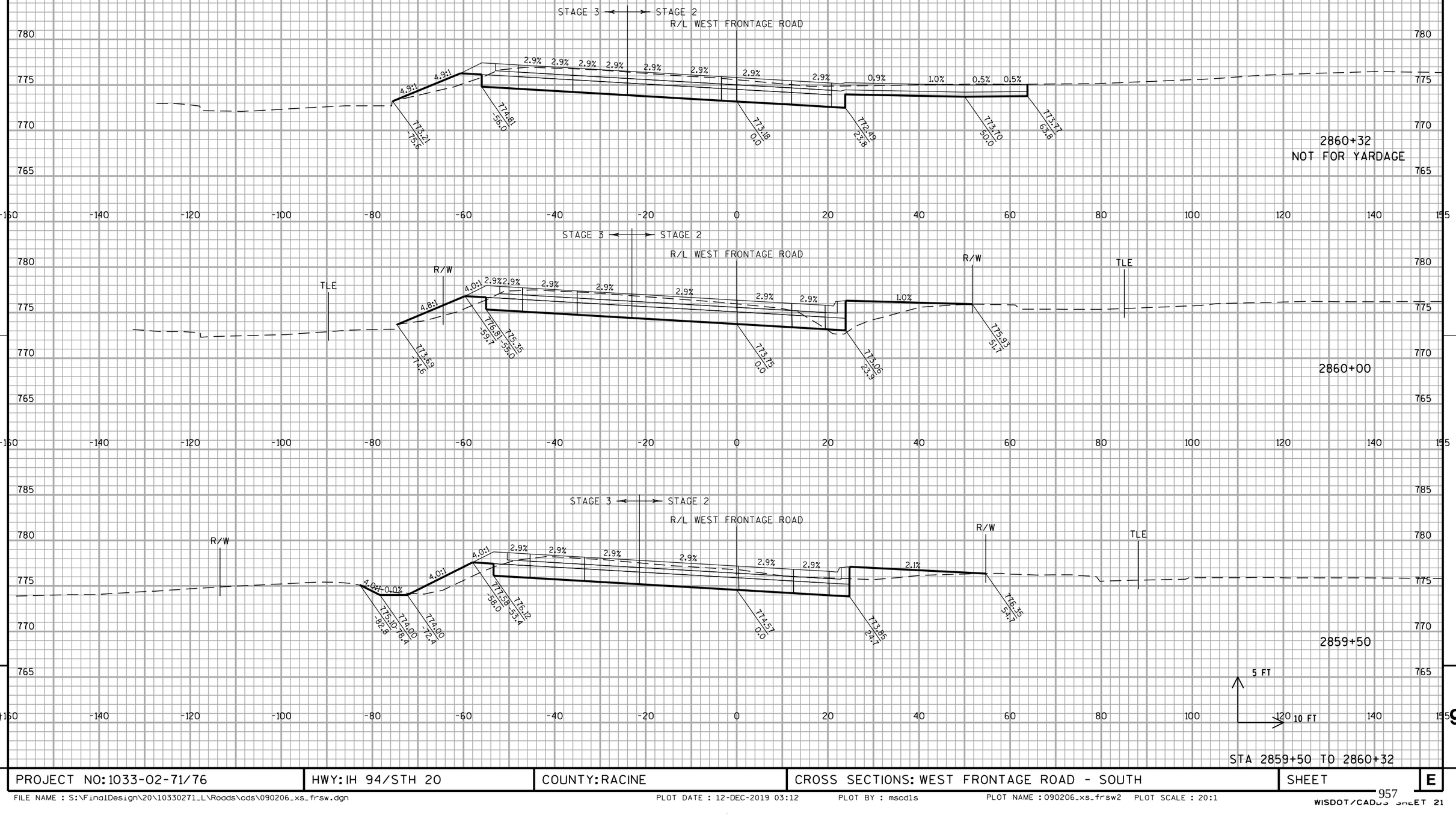
STA 2857+00 TO 2858+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET	E

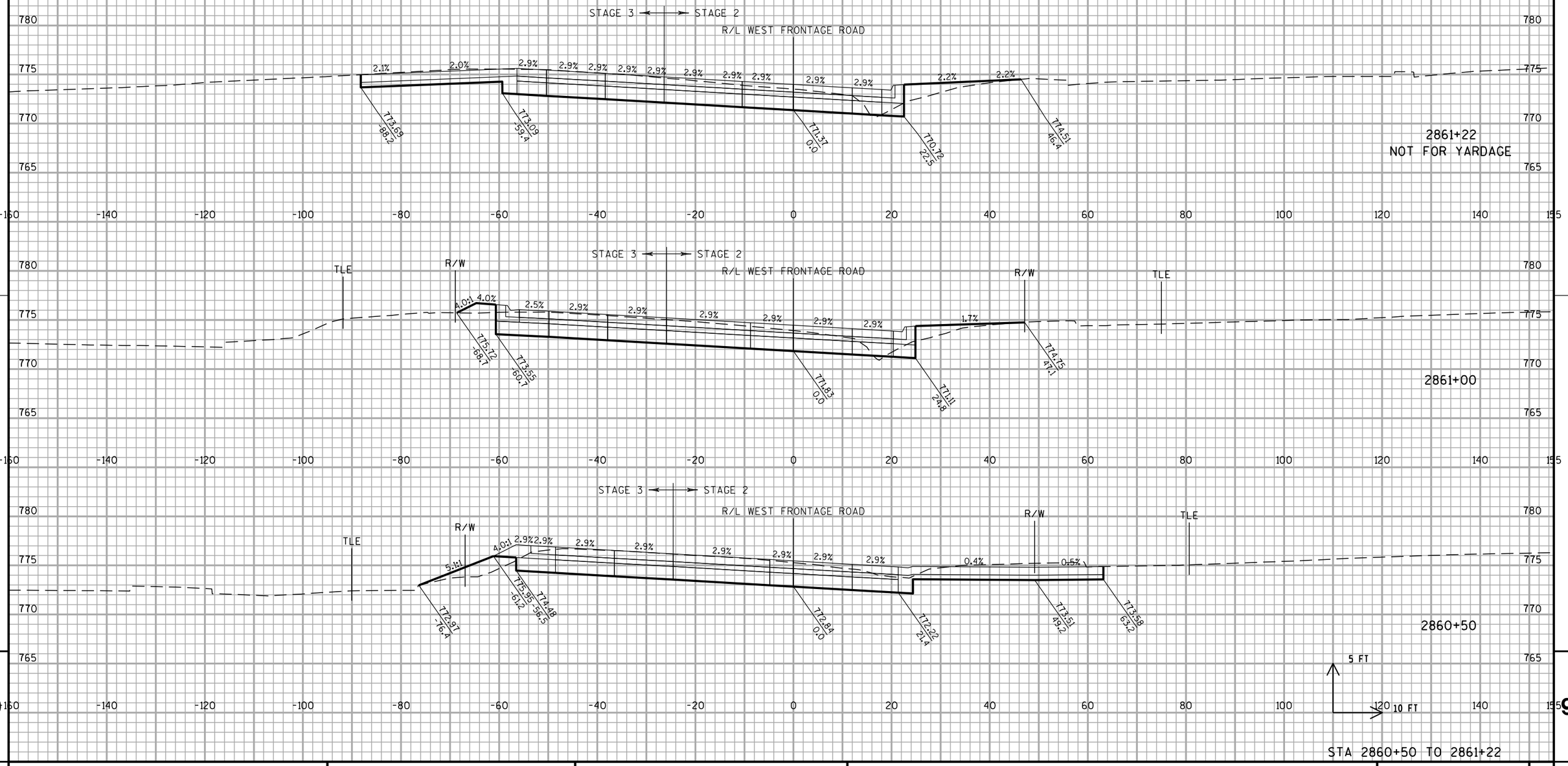
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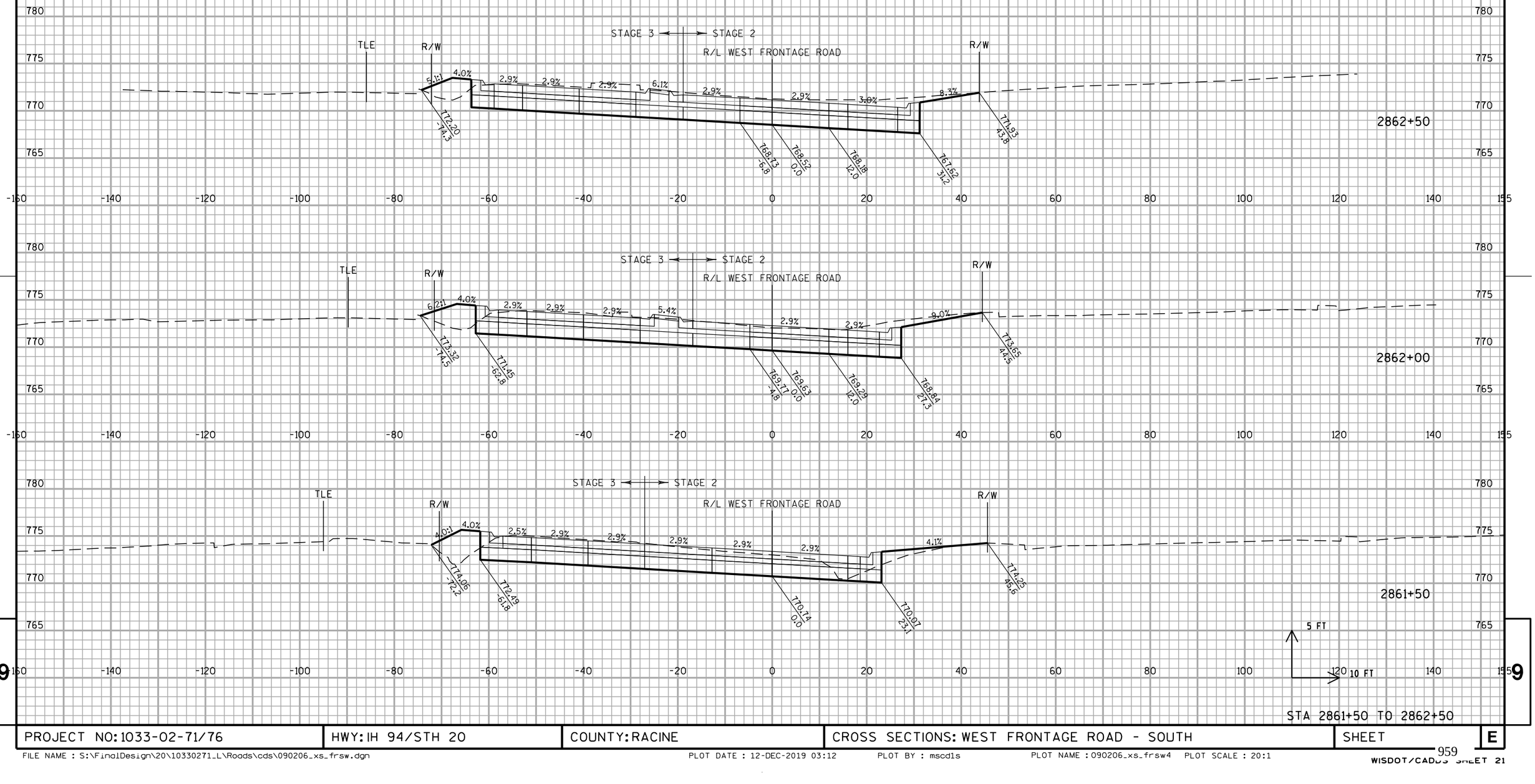
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET E



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET	E



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET	E

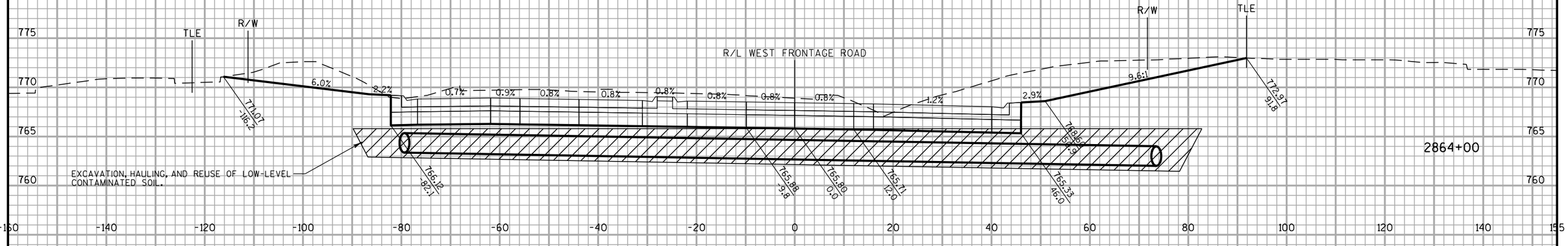


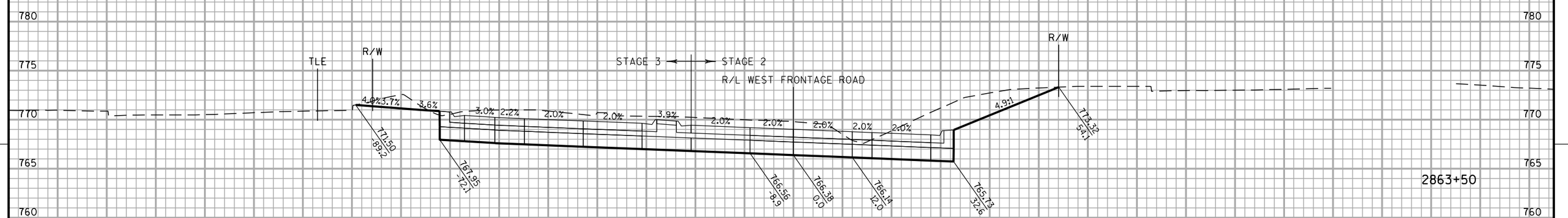
STA 2861+50 TO 2862+50

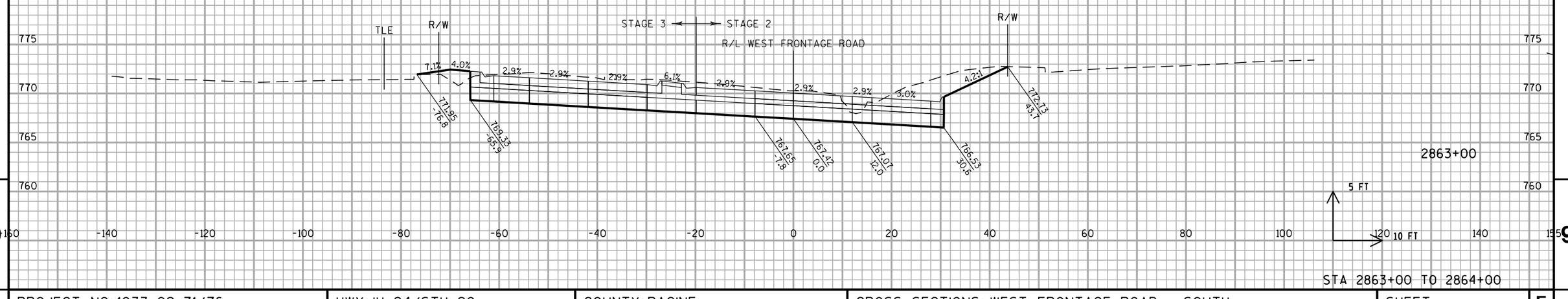
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090206_xs_frsw.dgn PLOT DATE : 12-DEC-2019 03:12 PLOT BY : mscd1s PLOT NAME : 090206_xs_frsw4 PLOT SCALE : 20:1

ALL WORK STAGE 3







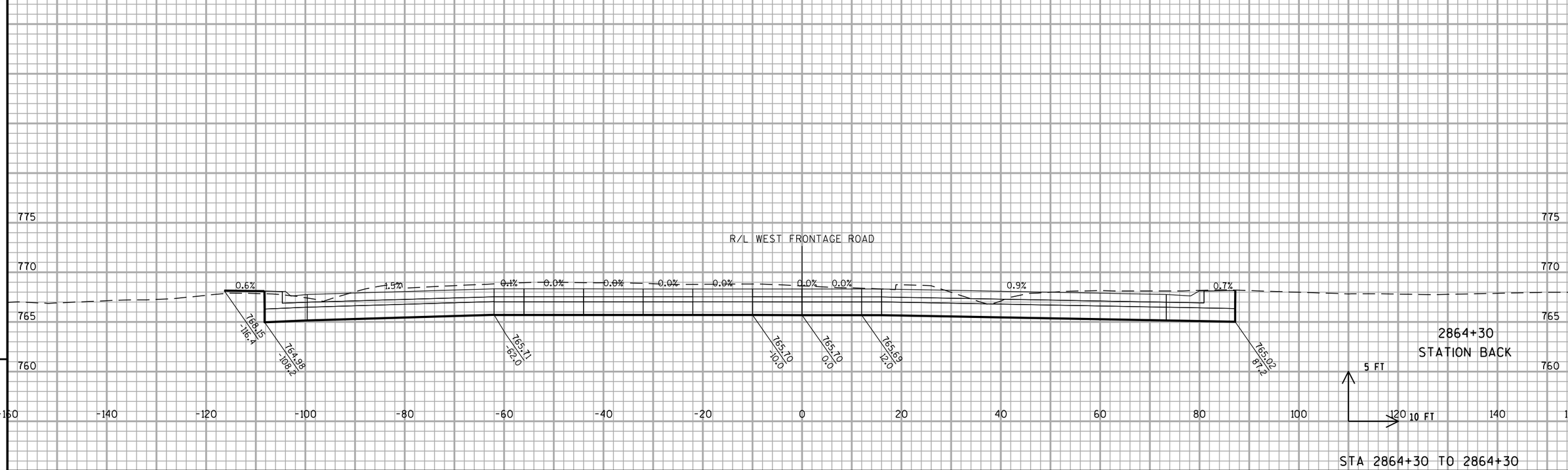
STA 2863+00 TO 2864+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090206_xs_frsw.dgn PLOT DATE : 12-DEC-2019 03:12 PLOT BY : mscd1s PLOT NAME : 090206_xs_frsw5 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

ALL WORK STAGE 3

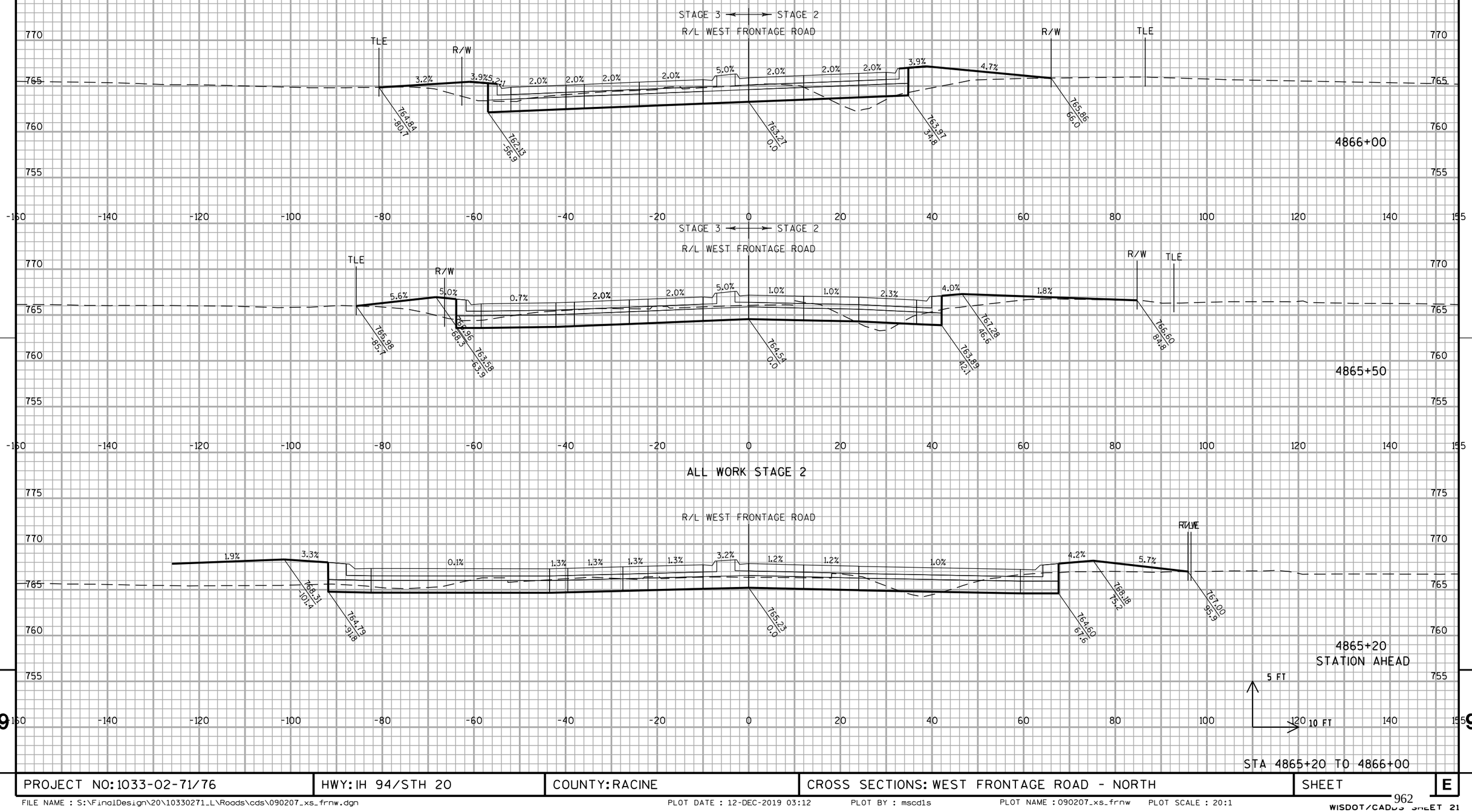


STA 2864+30 TO 2864+30

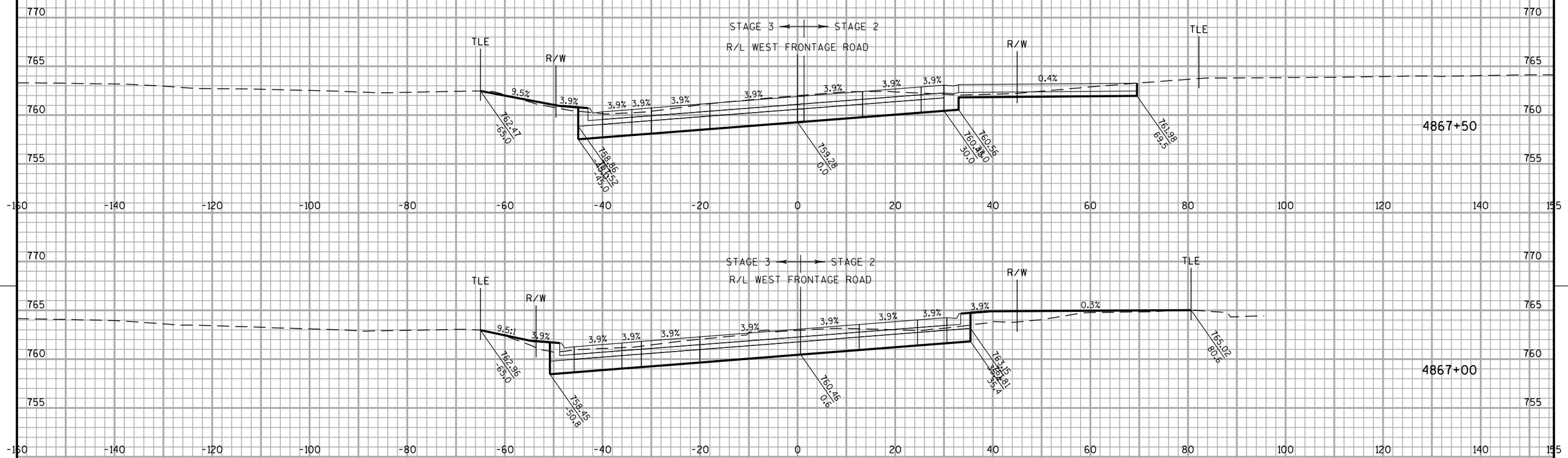
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090206_xs_frsw.dgn PLOT DATE : 12-DEC-2019 03:12 PLOT BY : mscd1s PLOT NAME : 090206_xs_frsw6 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



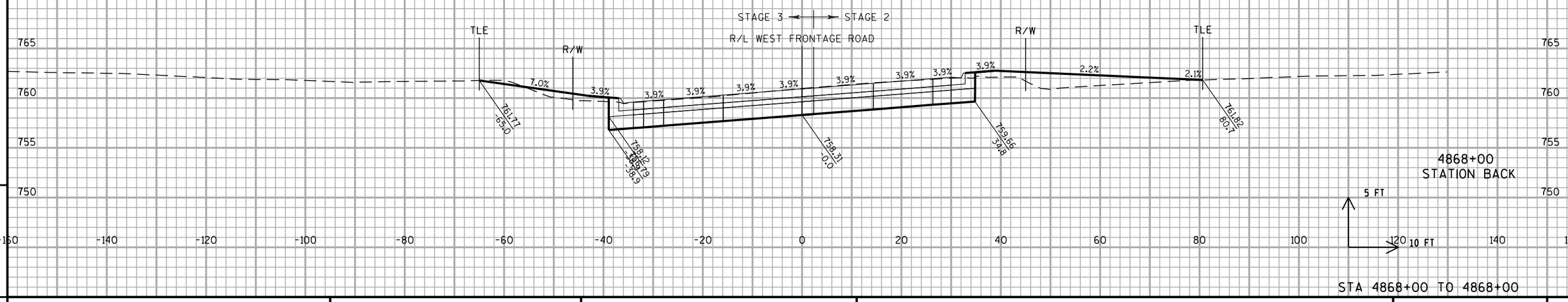
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET	E



STA 4866+50 TO 4867+50

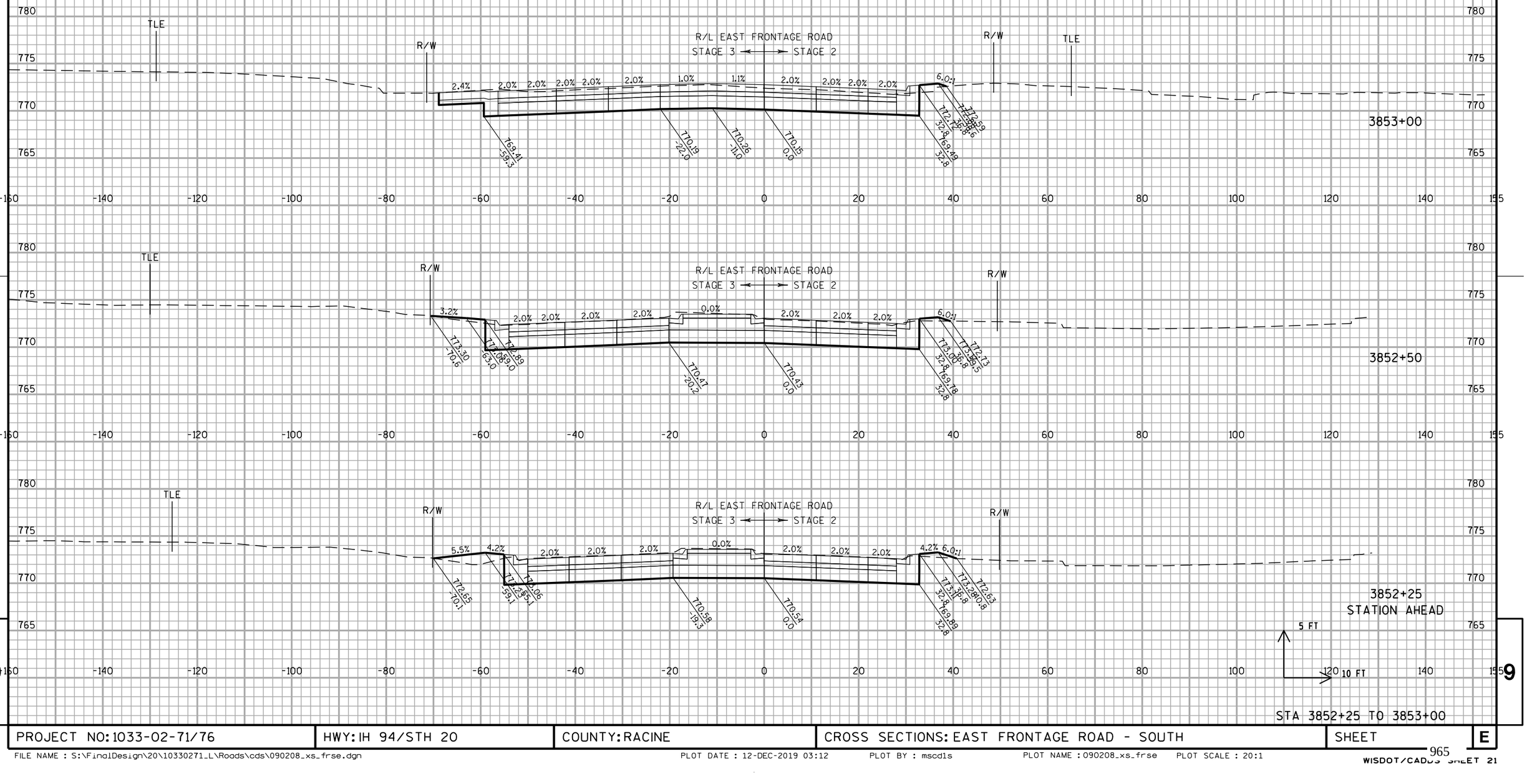
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090207_xs_frnw.dgn PLOT DATE : 12-DEC-2019 03:12 PLOT BY : mscd1s PLOT NAME : 090207_xs_frnw1 PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

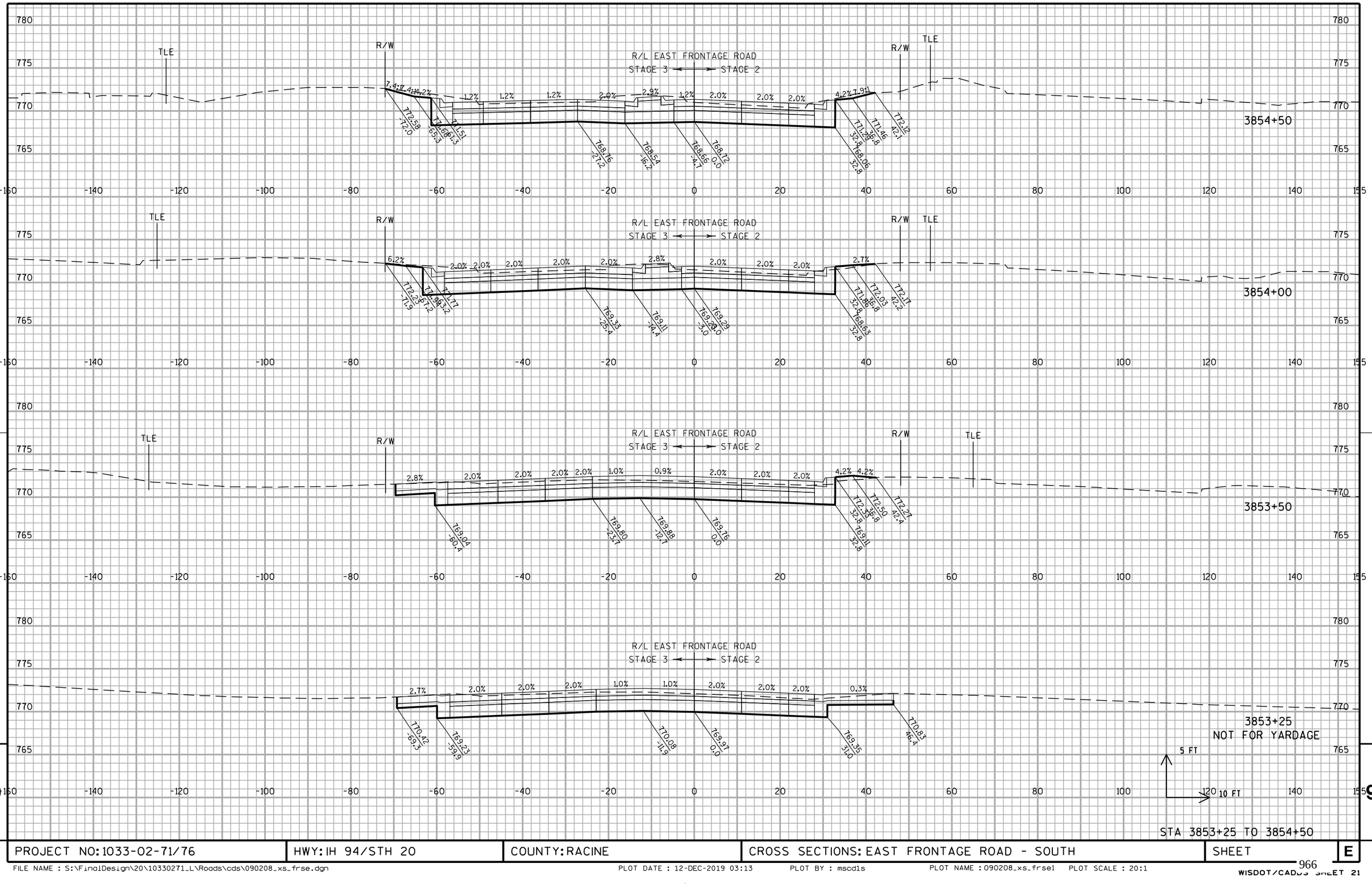


STA 4868+00 TO 4868+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET	E



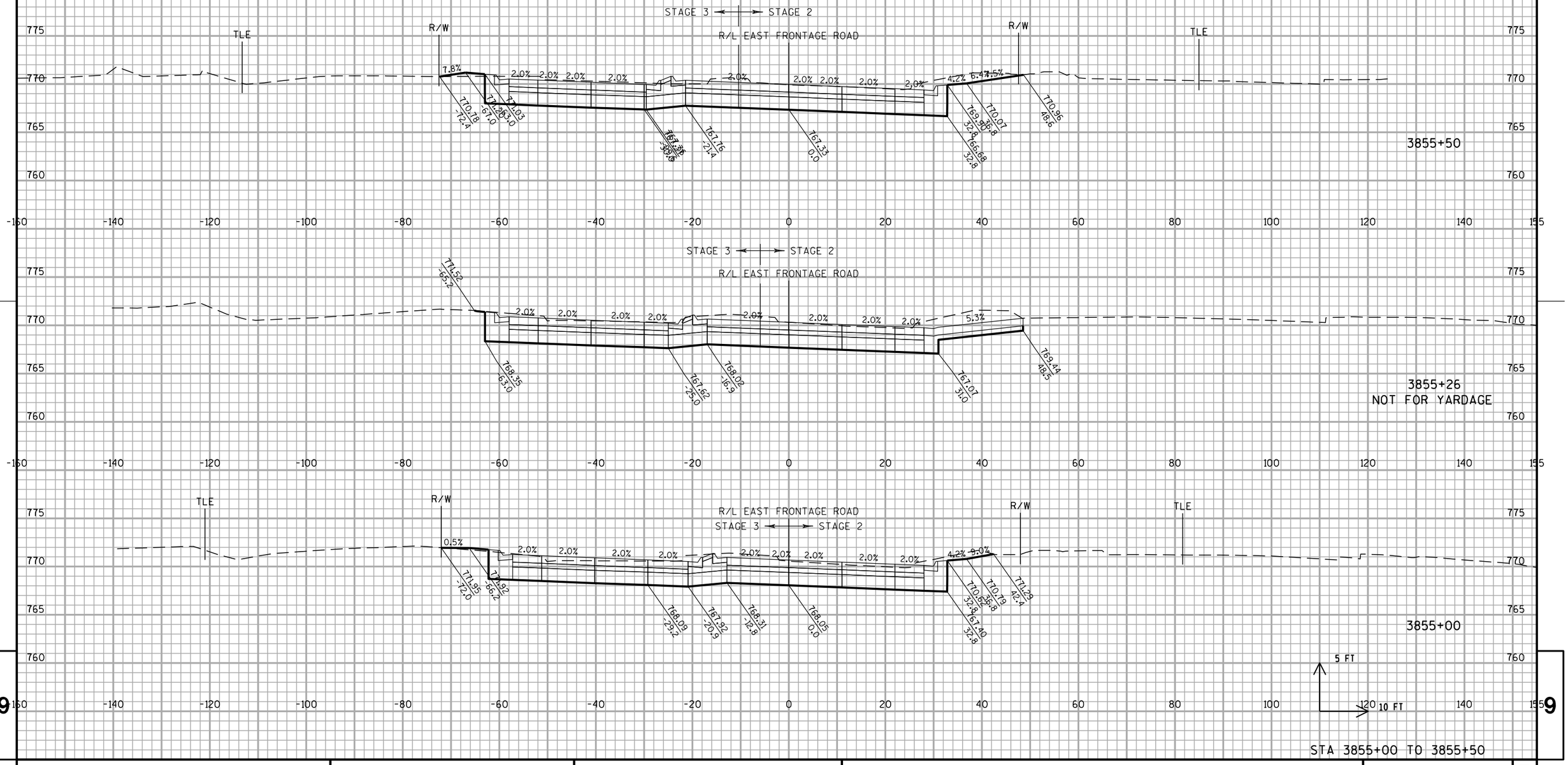
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD - SOUTH	SHEET	E



STA 3853+25 TO 3854+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD - SOUTH	SHEET	E

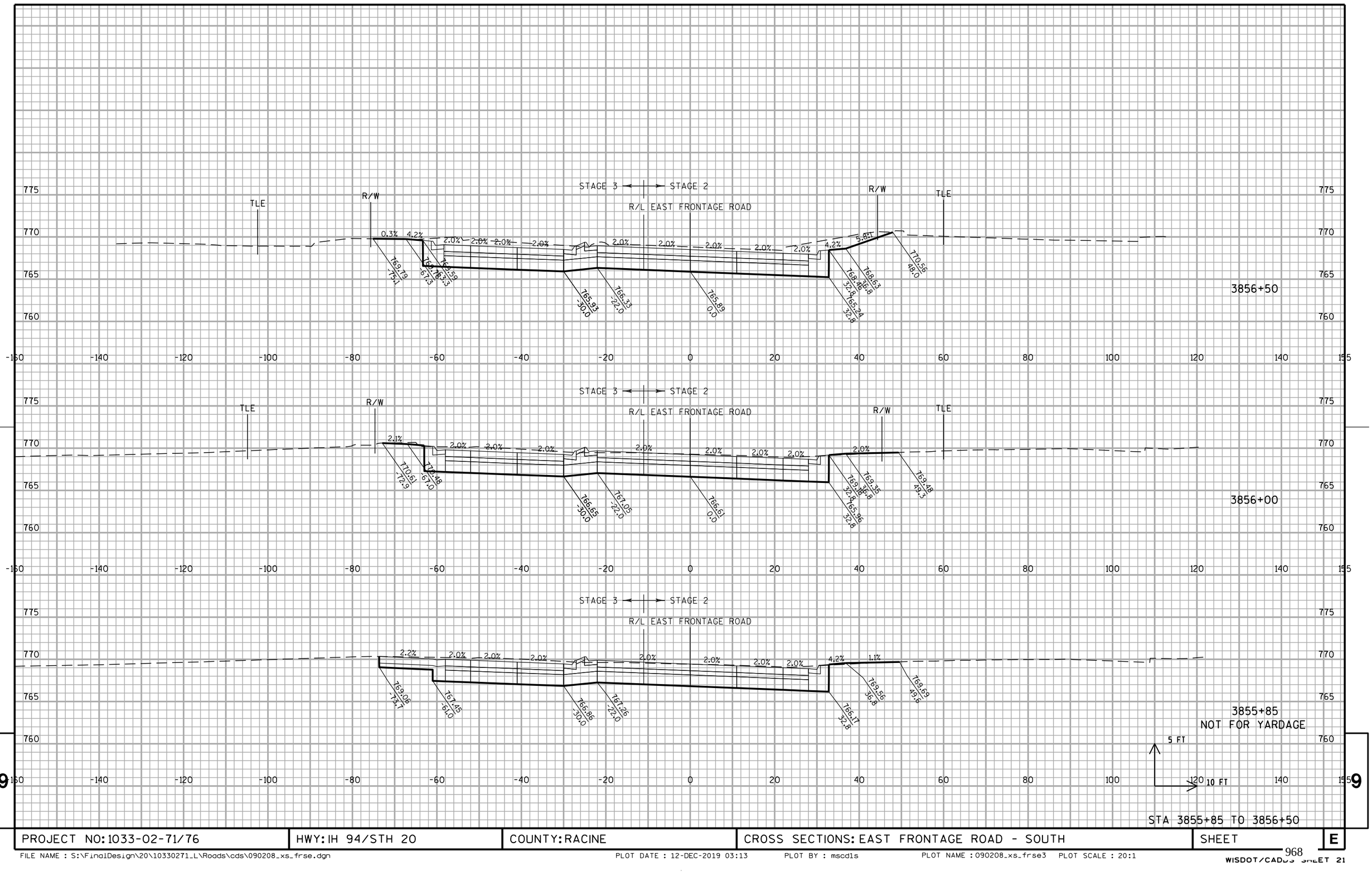
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WISDOT/CADDS SHEET 21



STA 3855+00 TO 3855+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD - SOUTH	SHEET	E

9 9



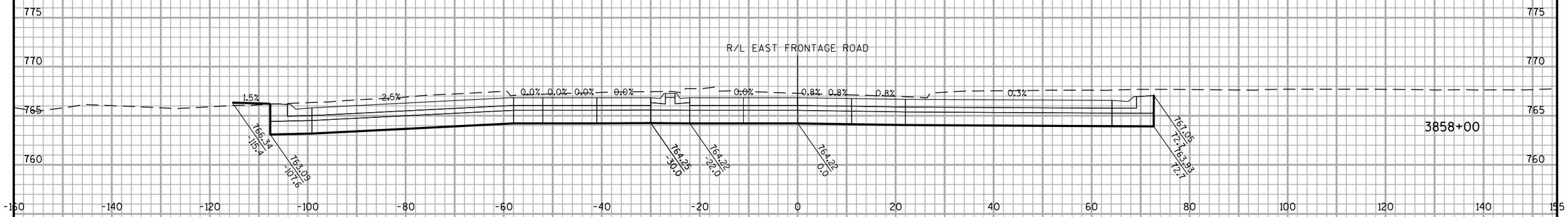
STA 3855+85 TO 3856+50

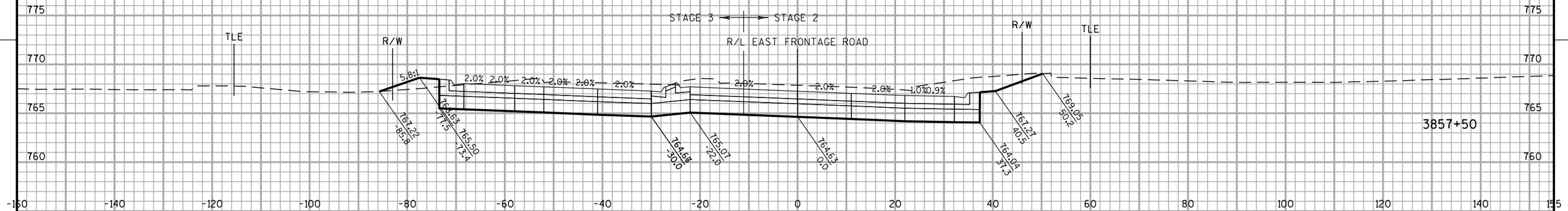
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD - SOUTH	SHEET	E

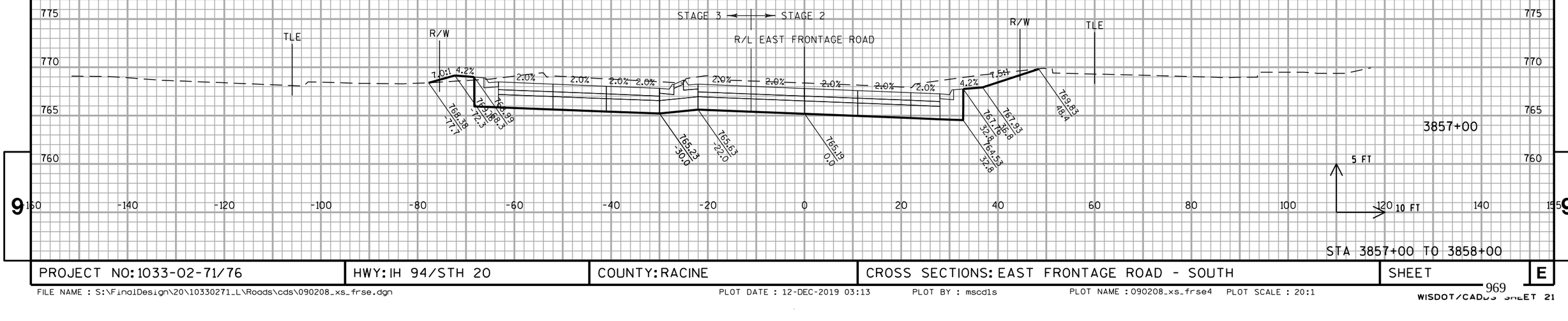
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WISDOT/CADDS SHEET 21

ALL WORK STAGE 3



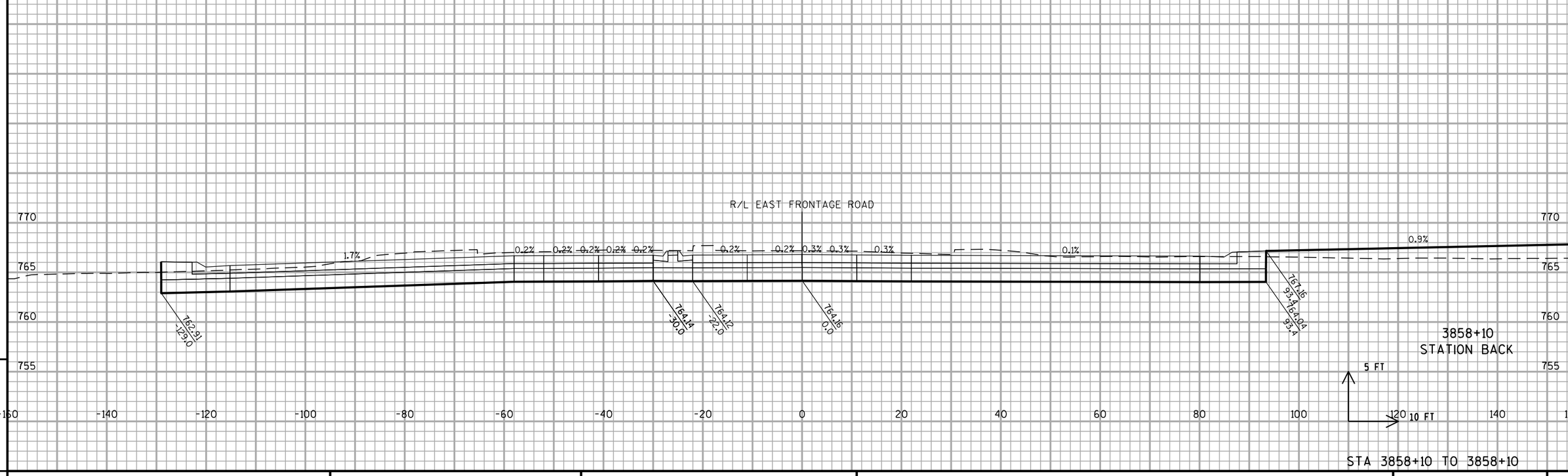




STA 3857+00 TO 3858+00

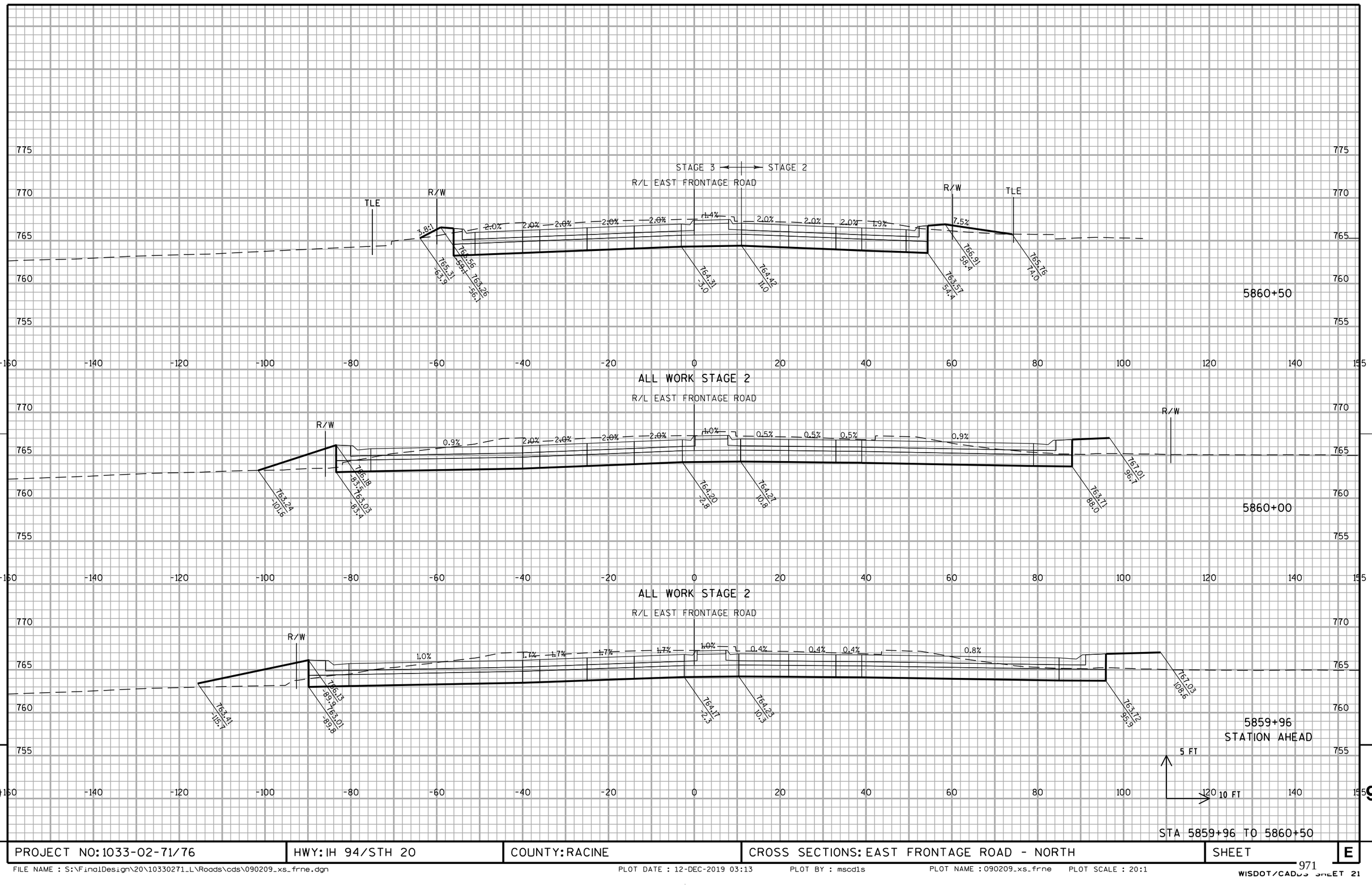
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD - SOUTH	SHEET	E

ALL WORK STAGE 3

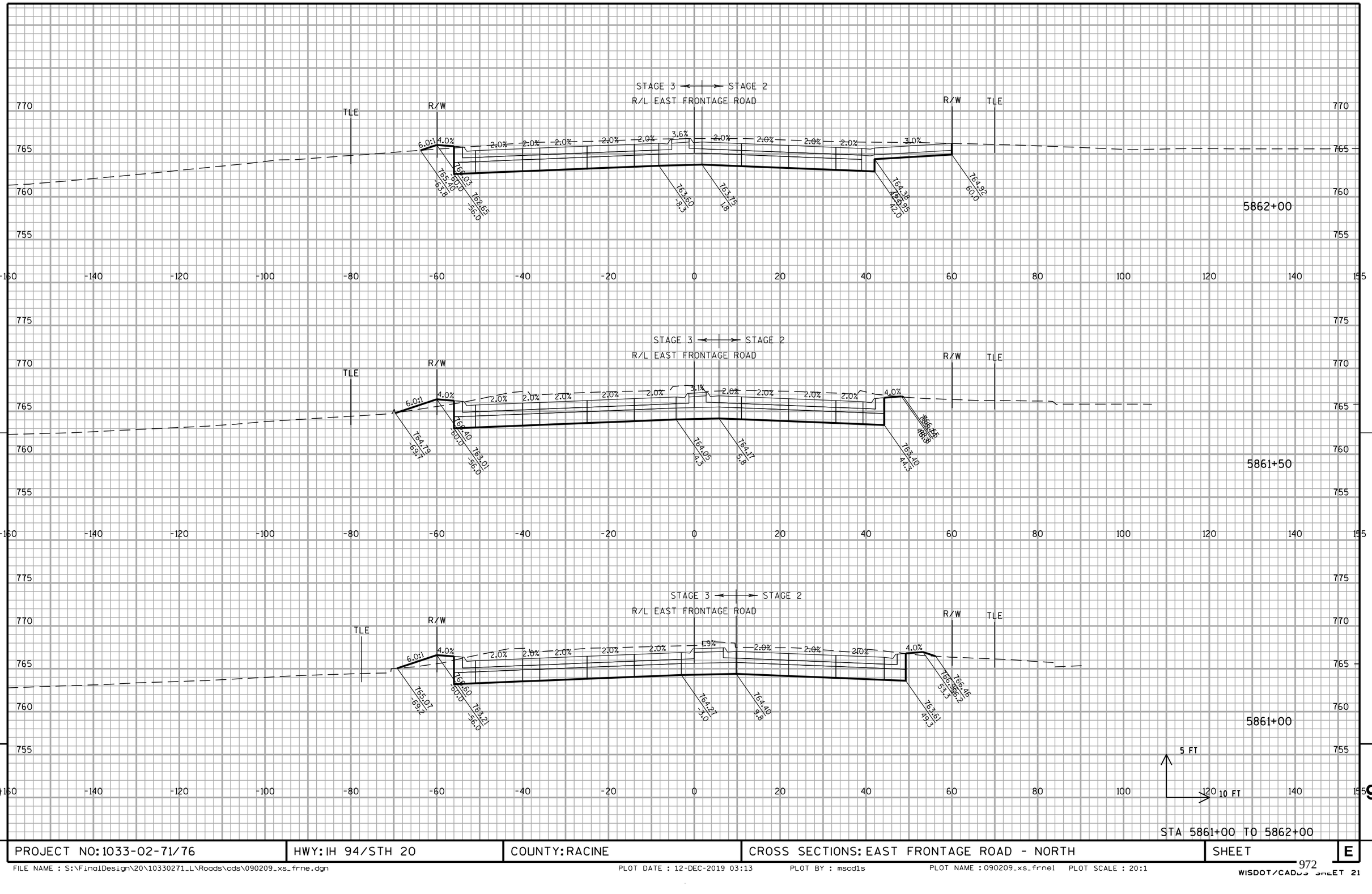


STA 3858+10 TO 3858+10

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD - SOUTH	SHEET	E

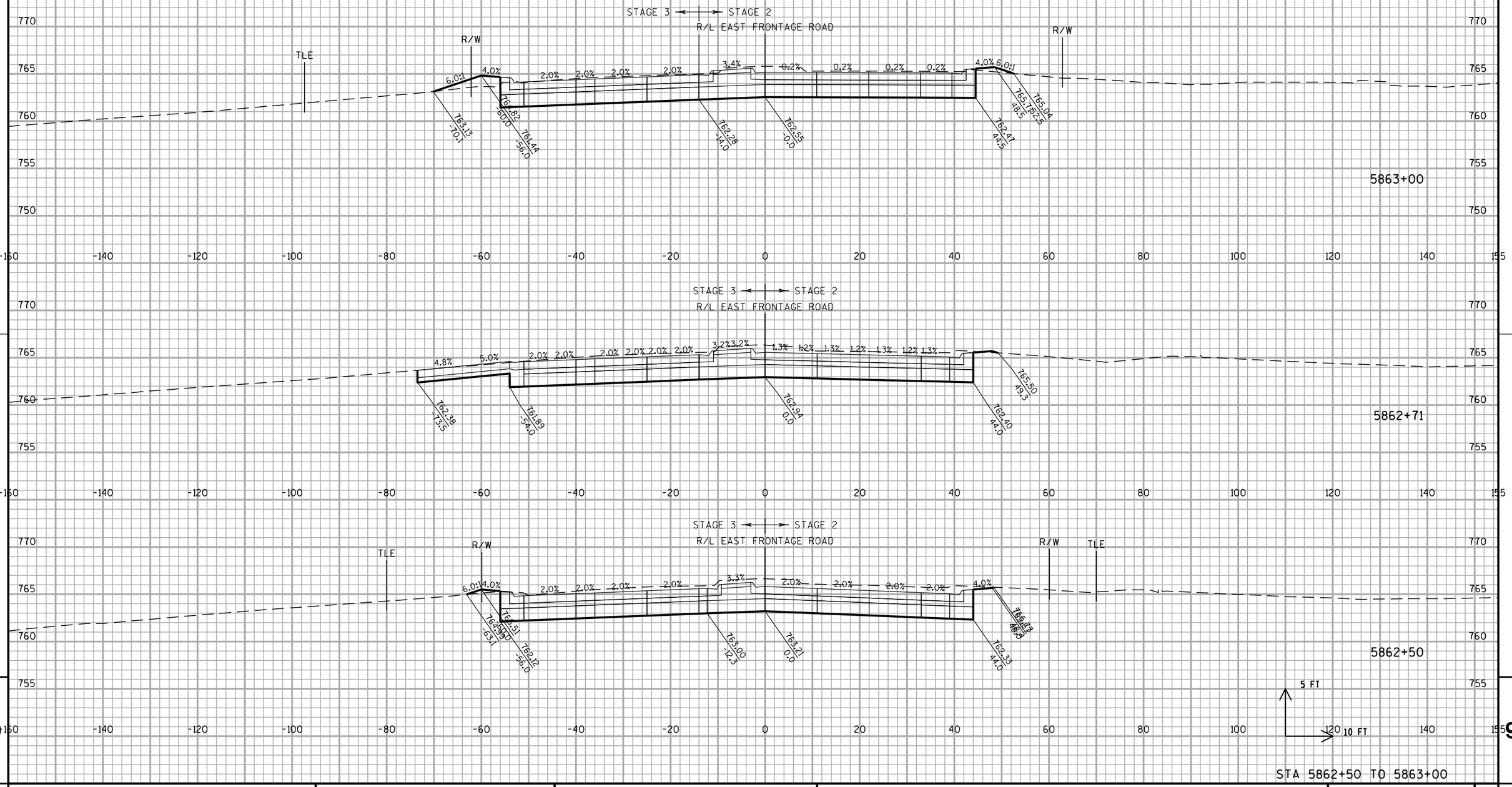


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD - NORTH	SHEET	E



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD - NORTH	SHEET E

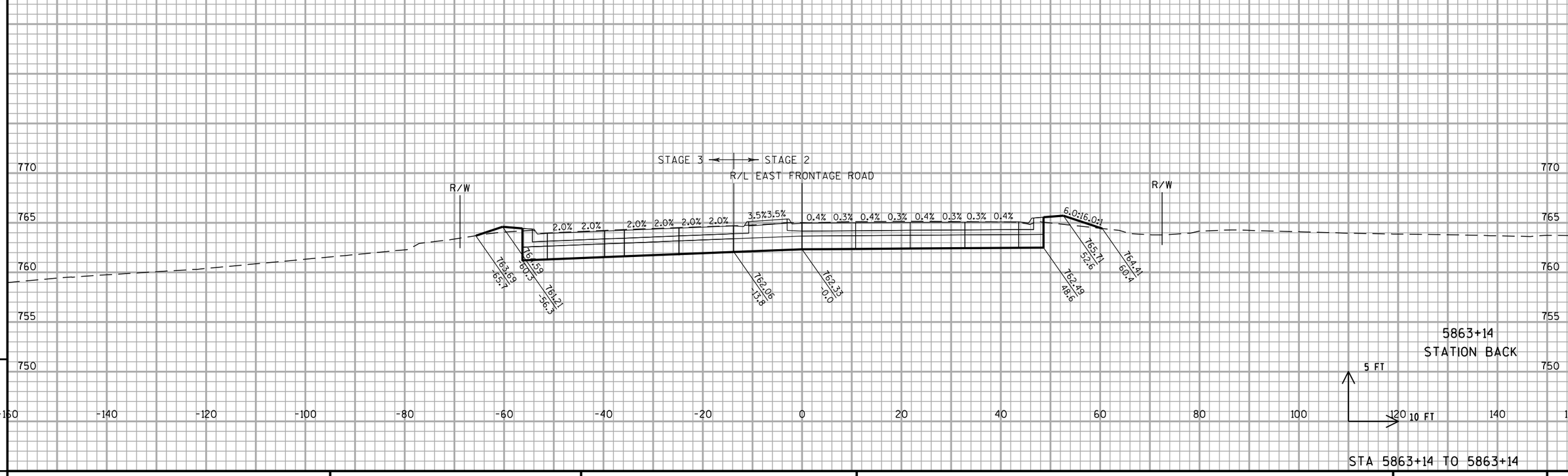
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD - NORTH	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090209_xs_frne.dgn PLOT DATE : 12-DEC-2019 03:13 PLOT BY : mscd1s PLOT NAME : 090209_xs_frne2 PLOT SCALE : 20:1

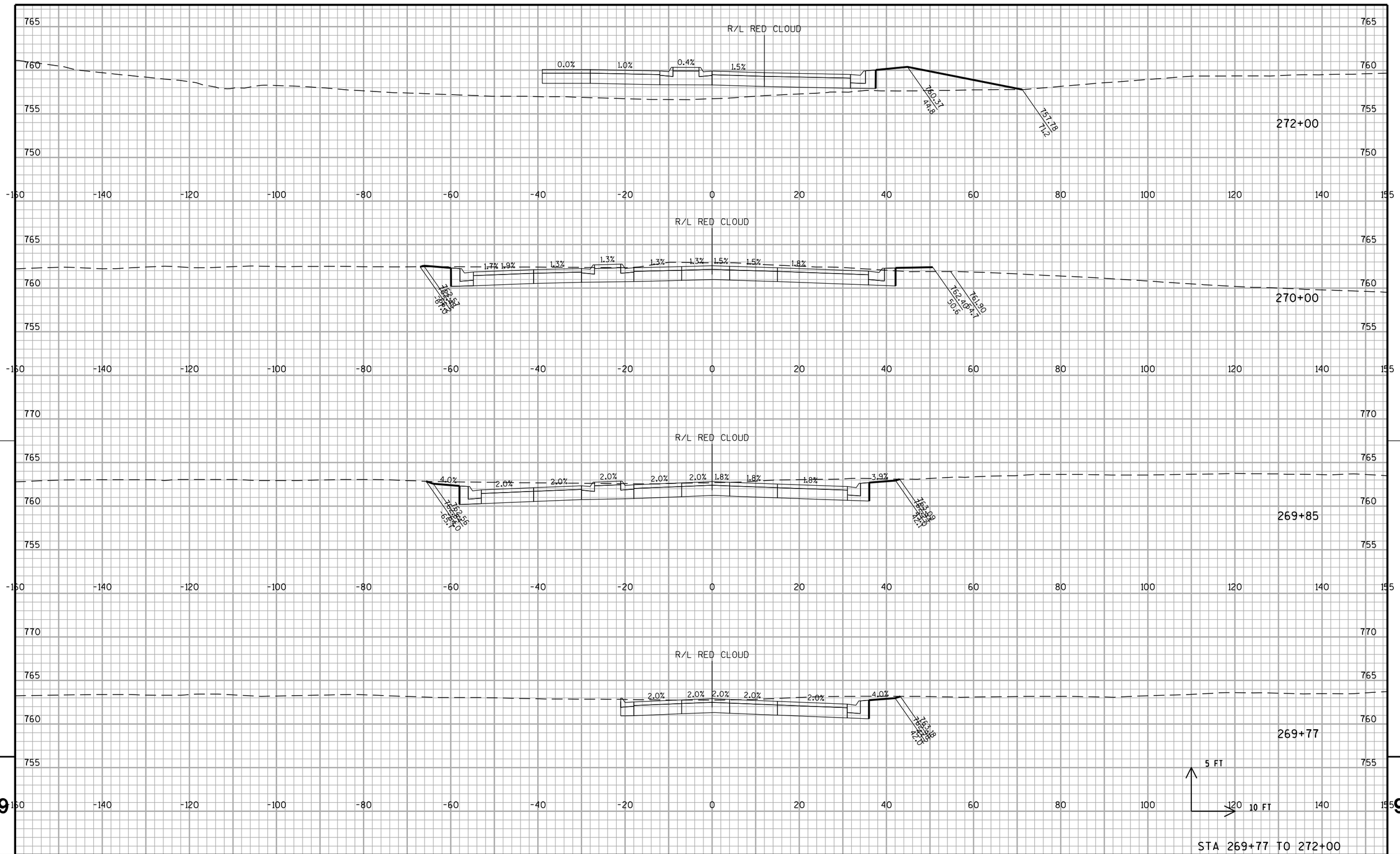
WISDOT/CADDS SHEET 21



STA 5863+14 TO 5863+14

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD - NORTH	SHEET	E

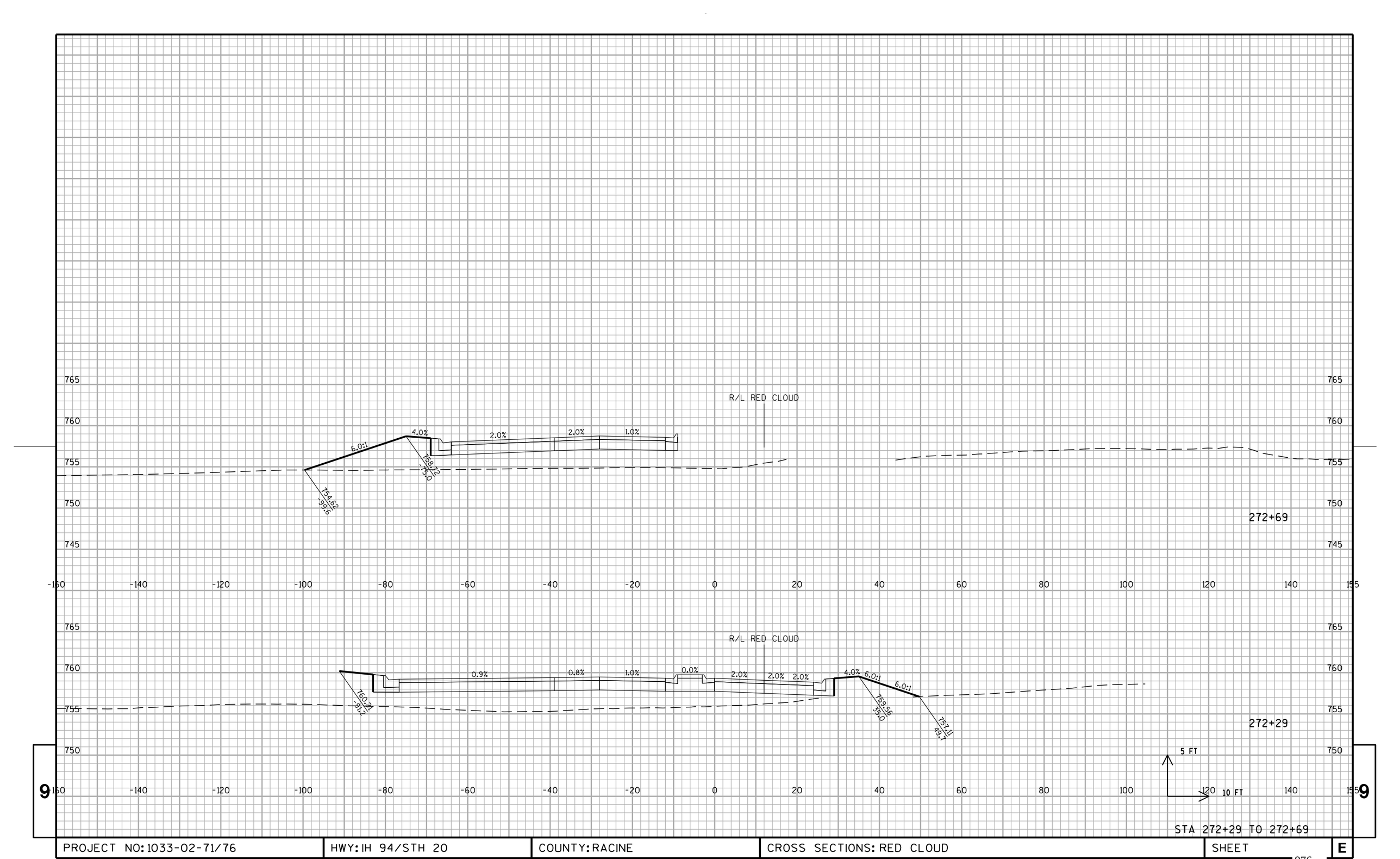
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STA 269+77 TO 272+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RED CLOUD	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090210_xs_red.dgn PLOT DATE : 12-DEC-2019 03:13 PLOT BY : mscd1s PLOT NAME : 090210_xs_red PLOT SCALE : 20:1

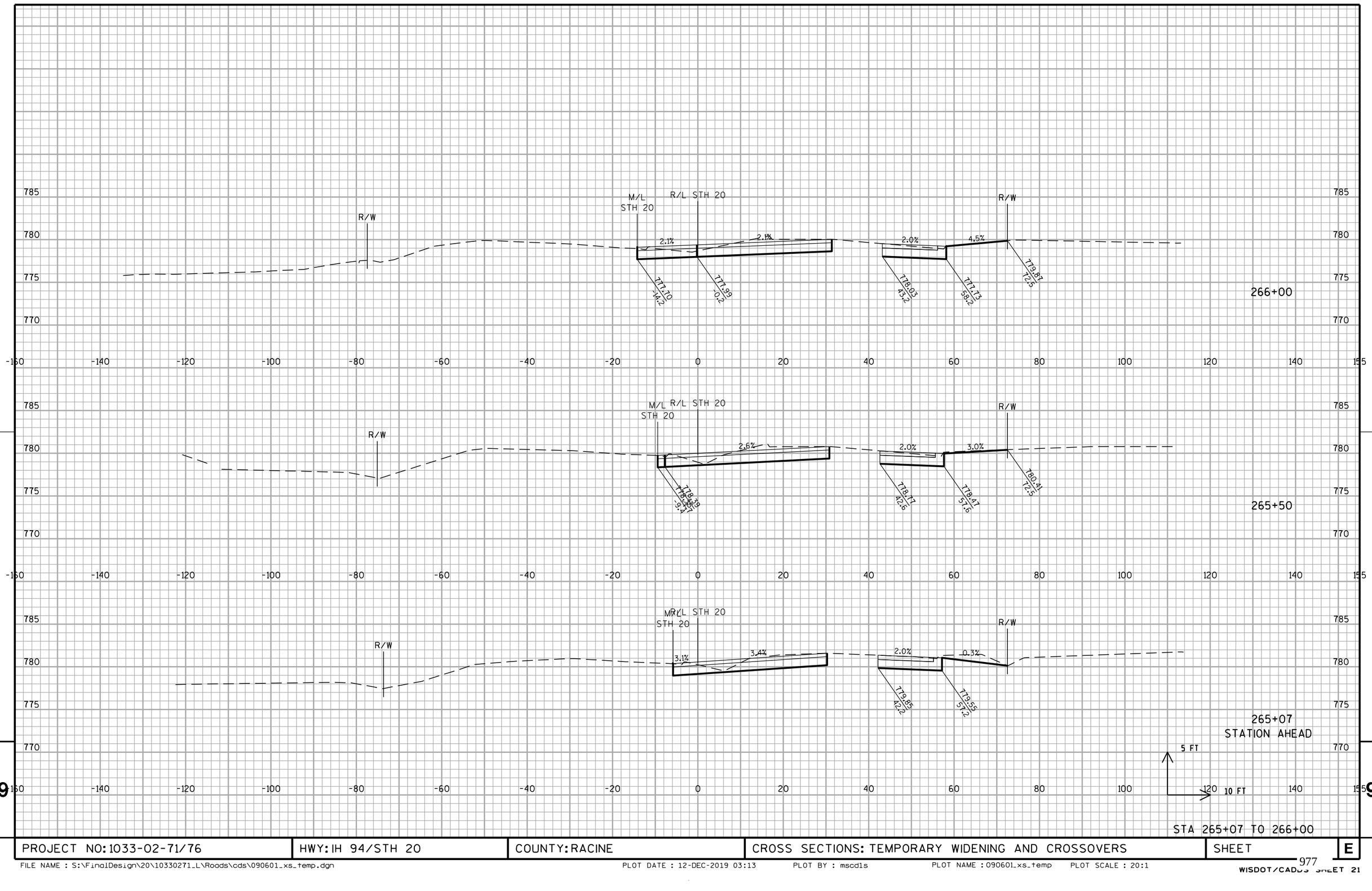


9

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: RED CLOUD	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090210_xs_red.dgn PLOT DATE : 12-DEC-2019 03:13 PLOT BY : mscd1s PLOT NAME : 090210_xs_red1 PLOT SCALE : 20:1

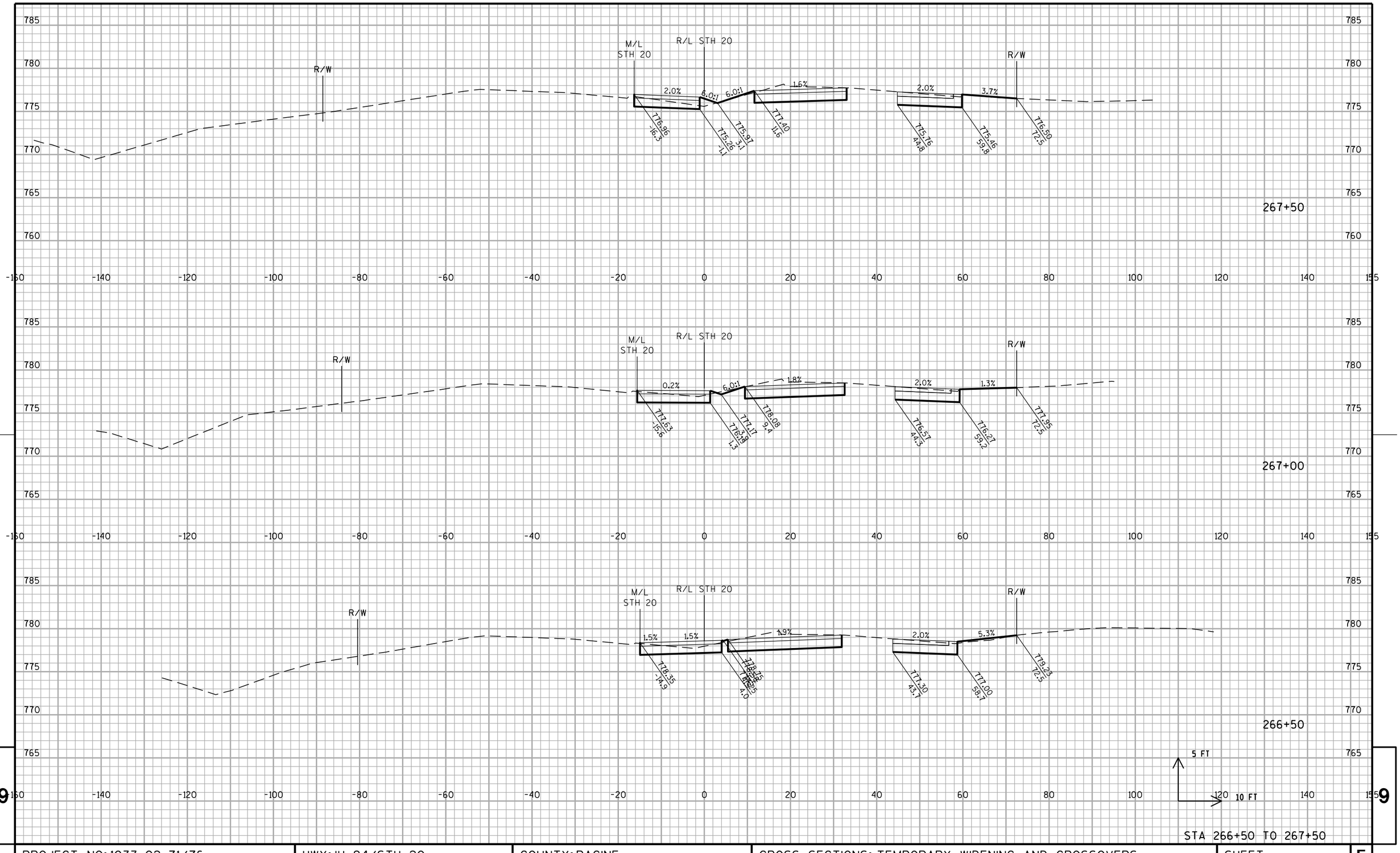
WISDOT/CADDS SHEET 21



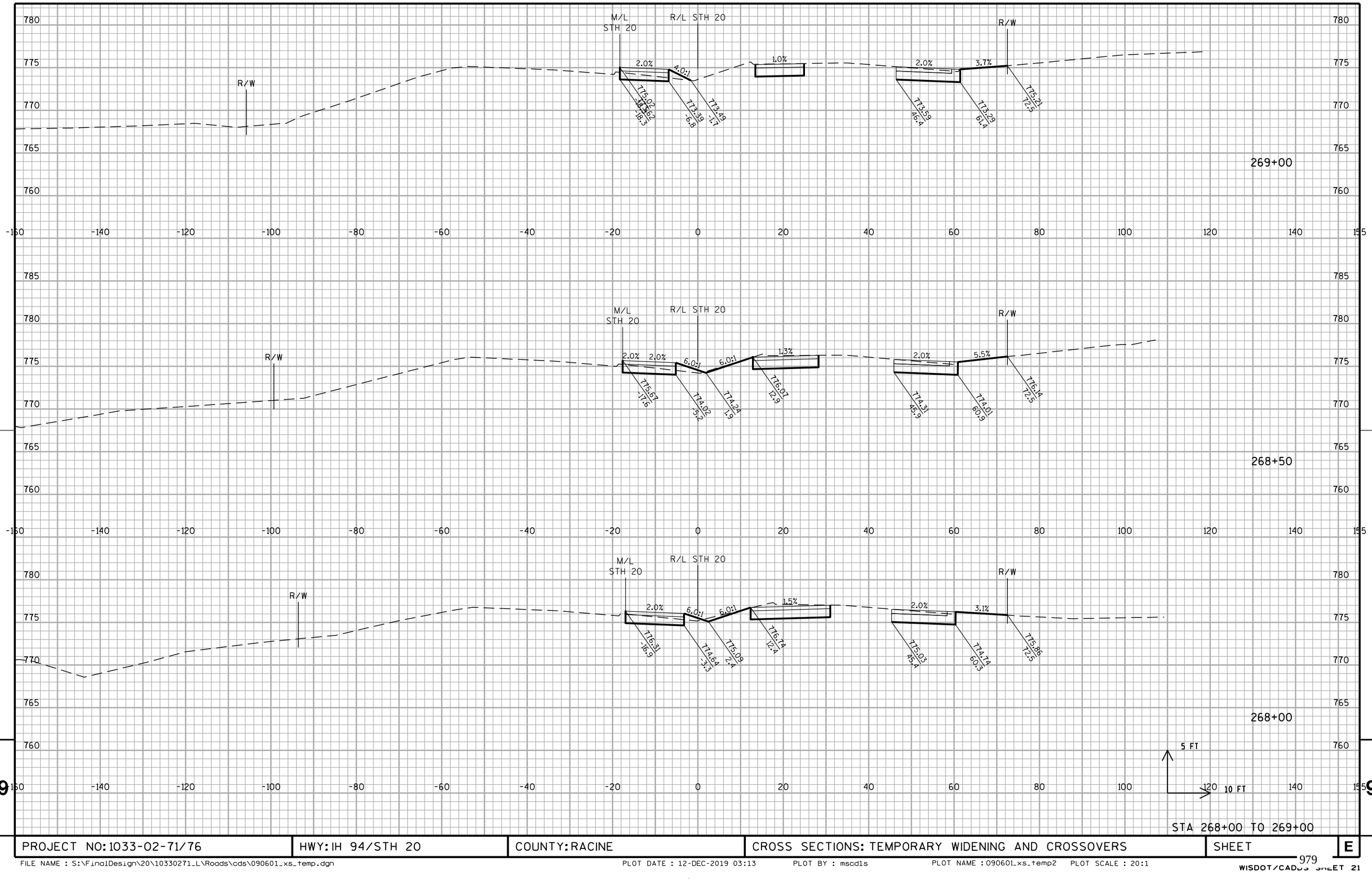
STA 265+07 TO 266+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:13 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp PLOT SCALE : 20:1

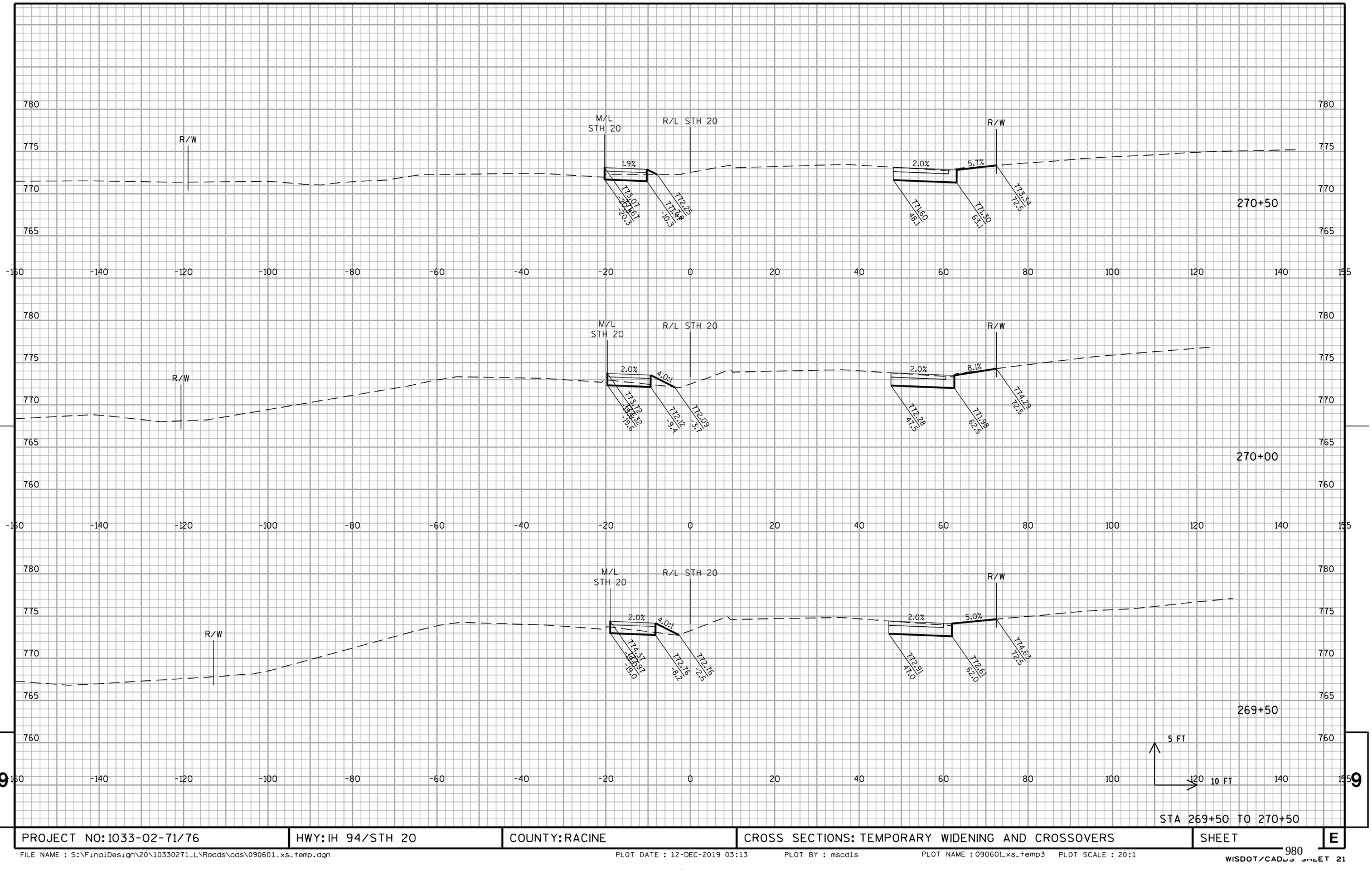


PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E



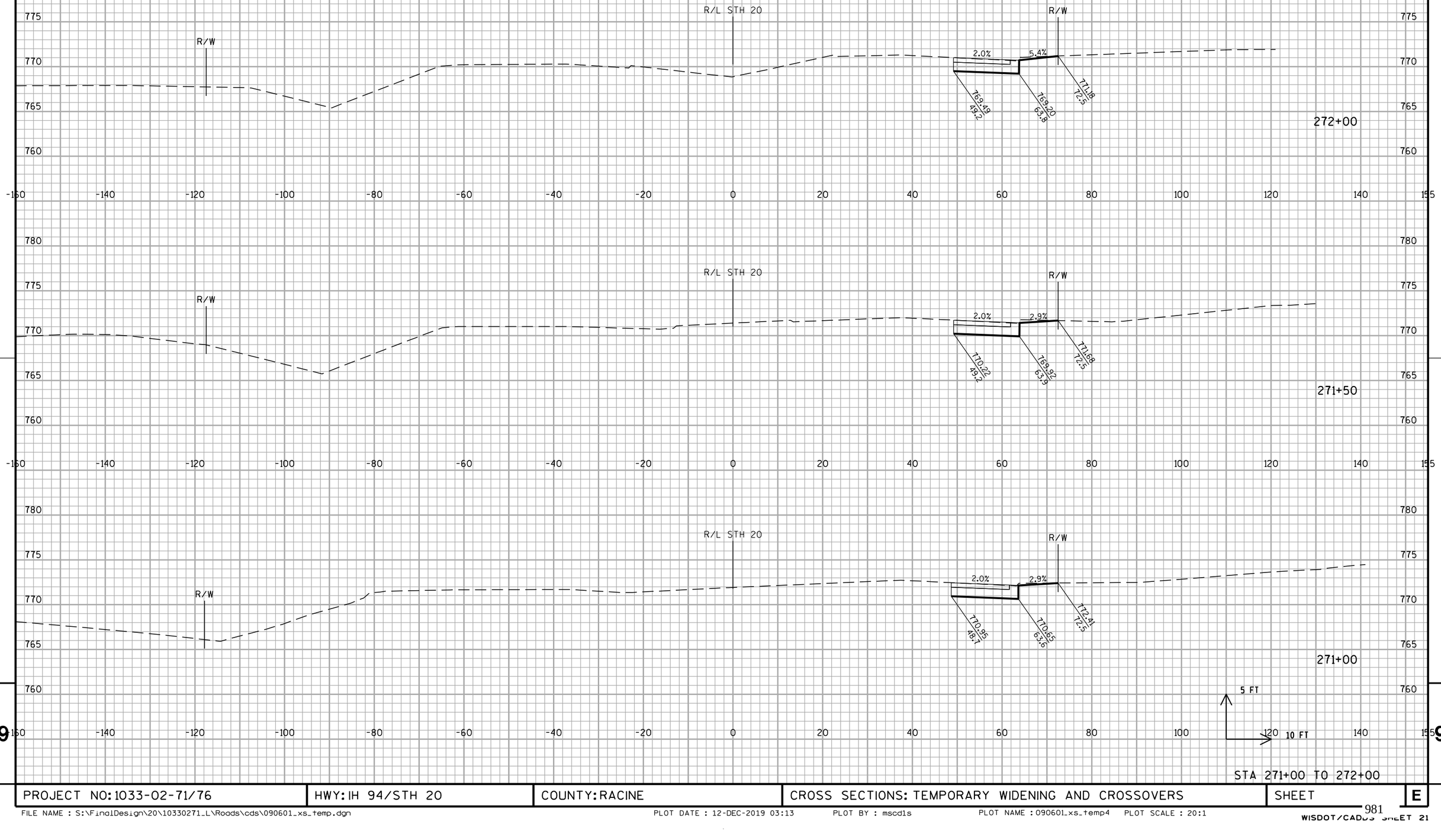
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:13 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp2 PLOT SCALE : 20:1



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:13 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp3 PLOT SCALE : 20:1

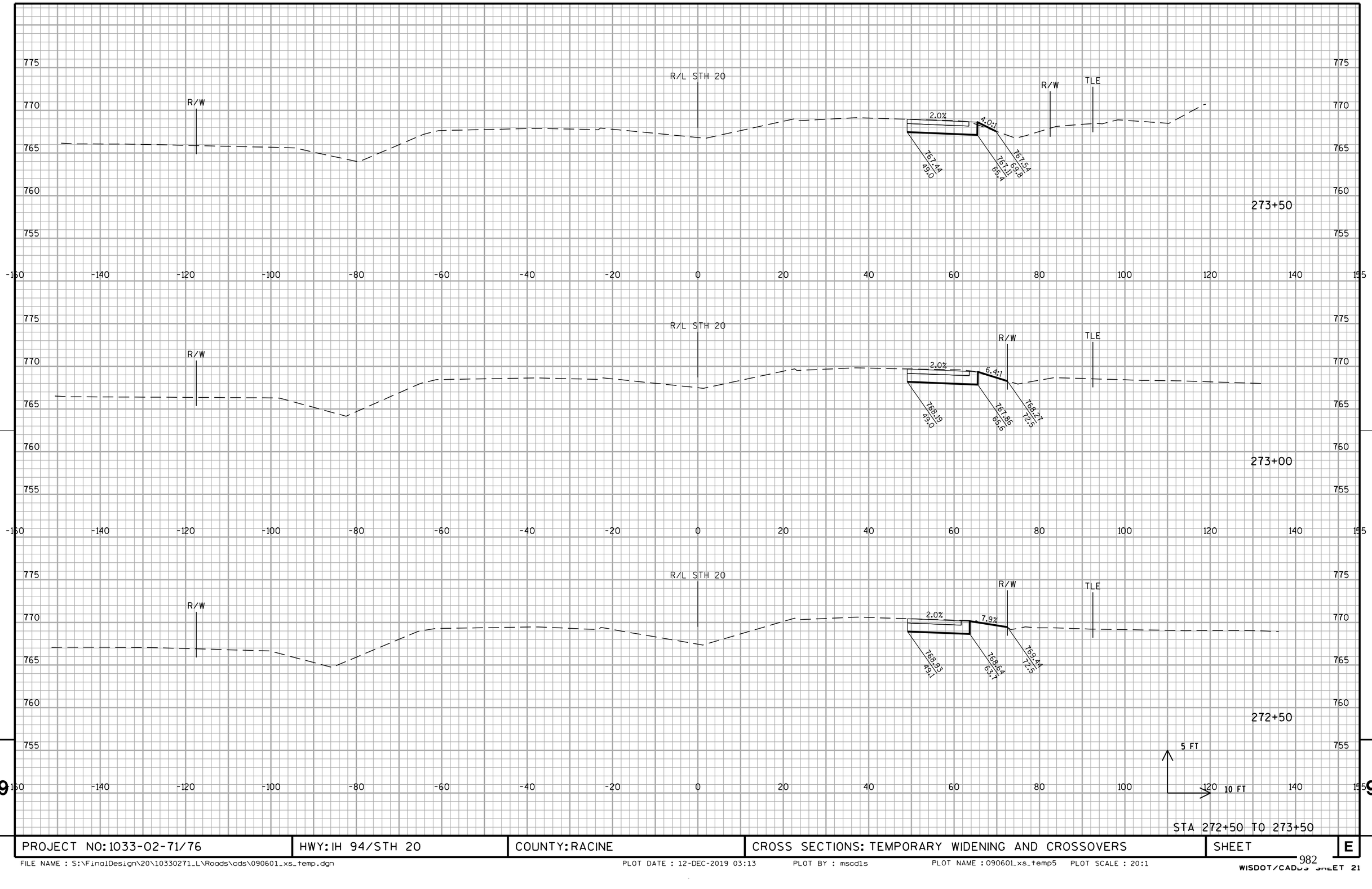


STA 271+00 TO 272+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

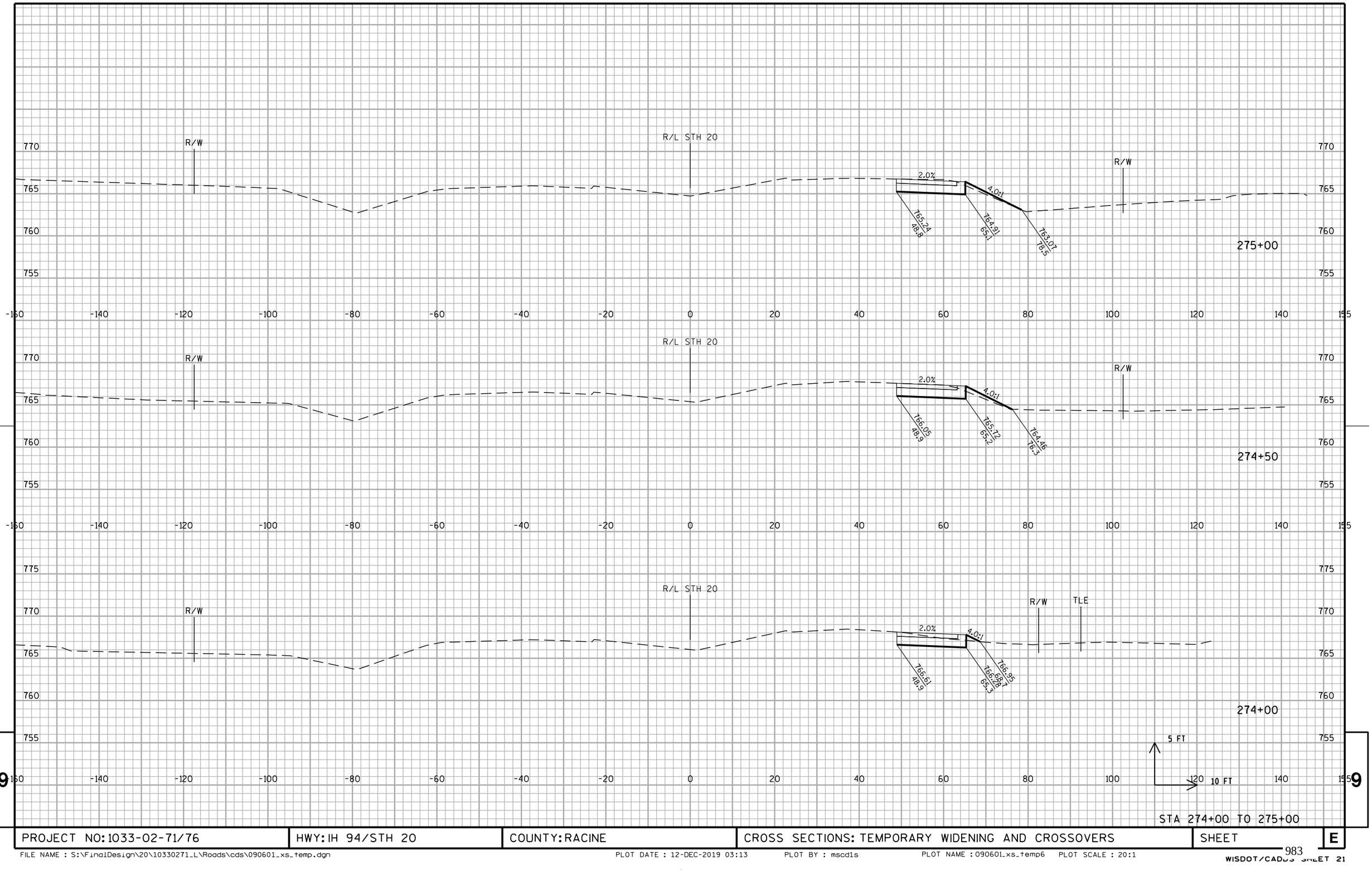
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WISDOT/CADDS SHEET 21



STA 272+50 TO 273+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E



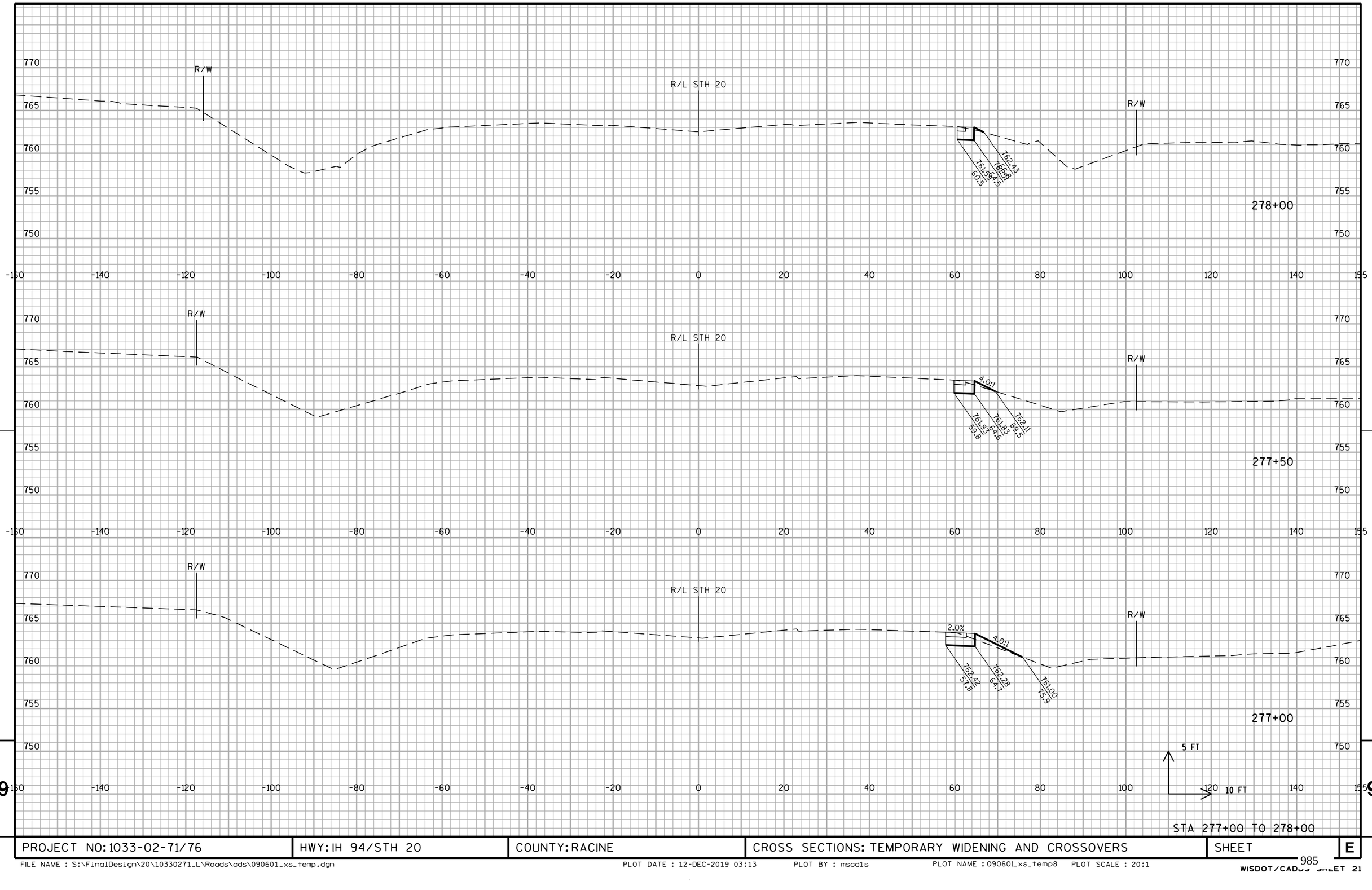
STA 274+00 TO 275+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

STA 275+50 TO 276+50

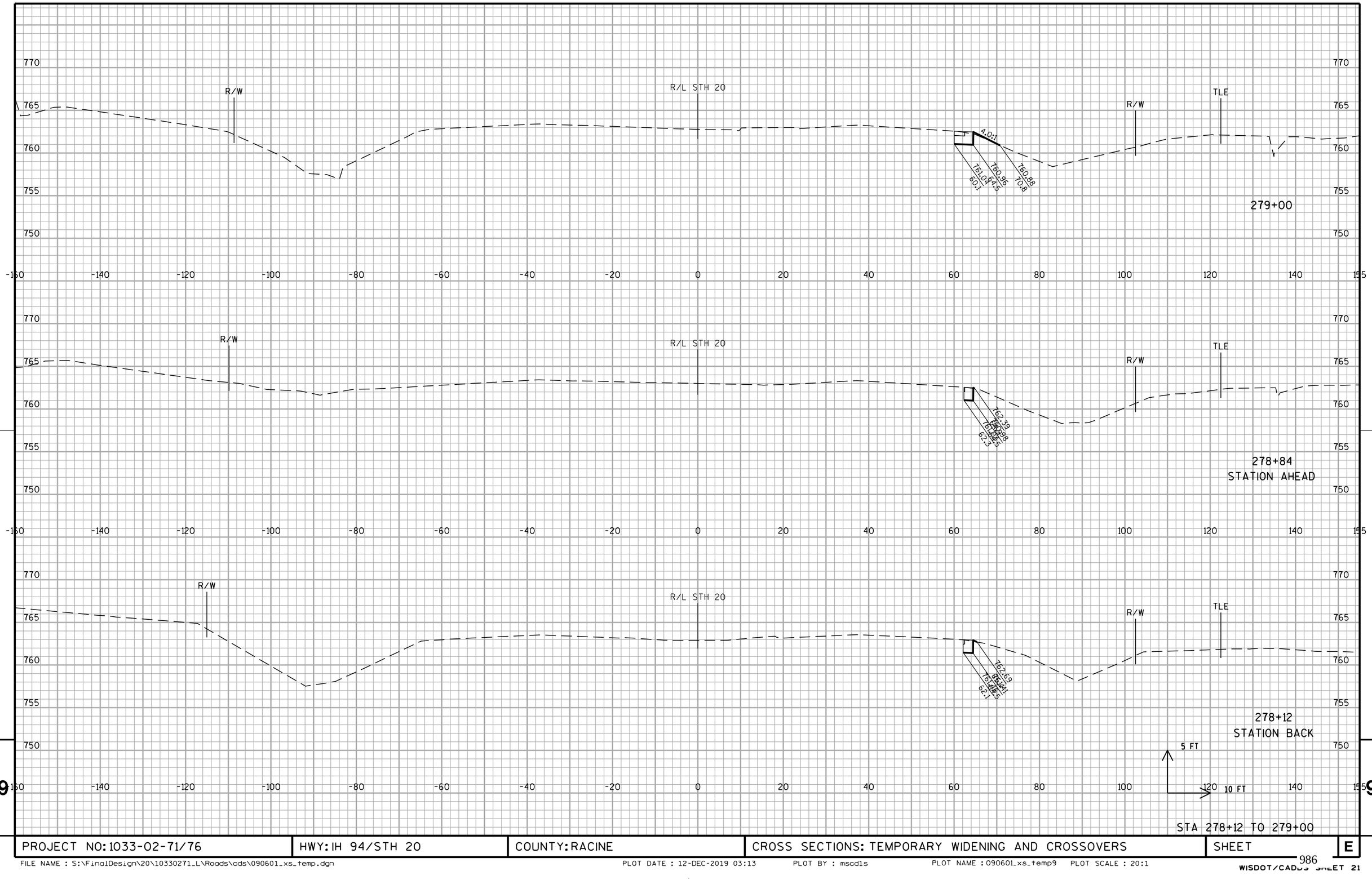
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

9 9



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:13 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp8 PLOT SCALE : 20:1

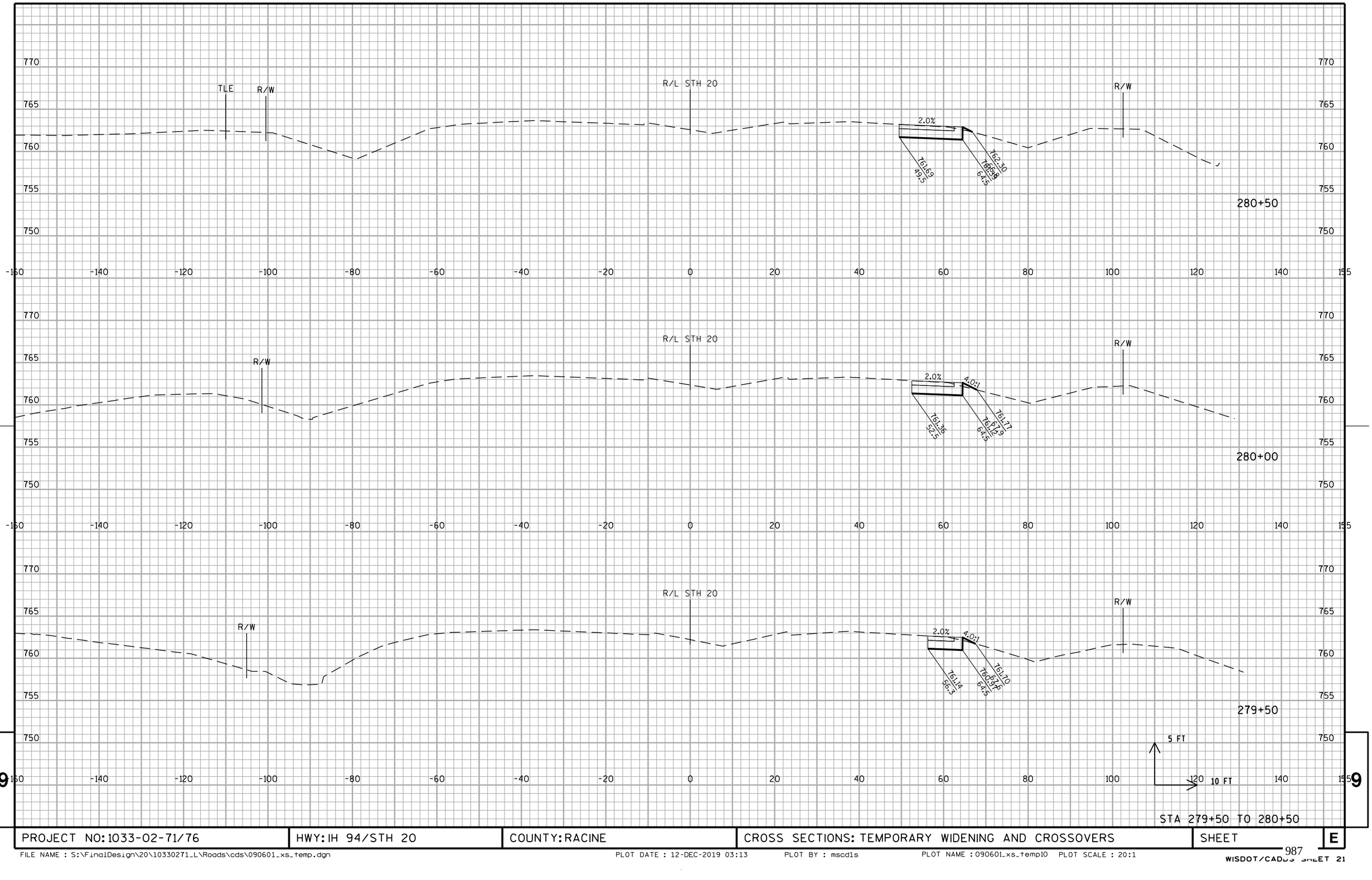


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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

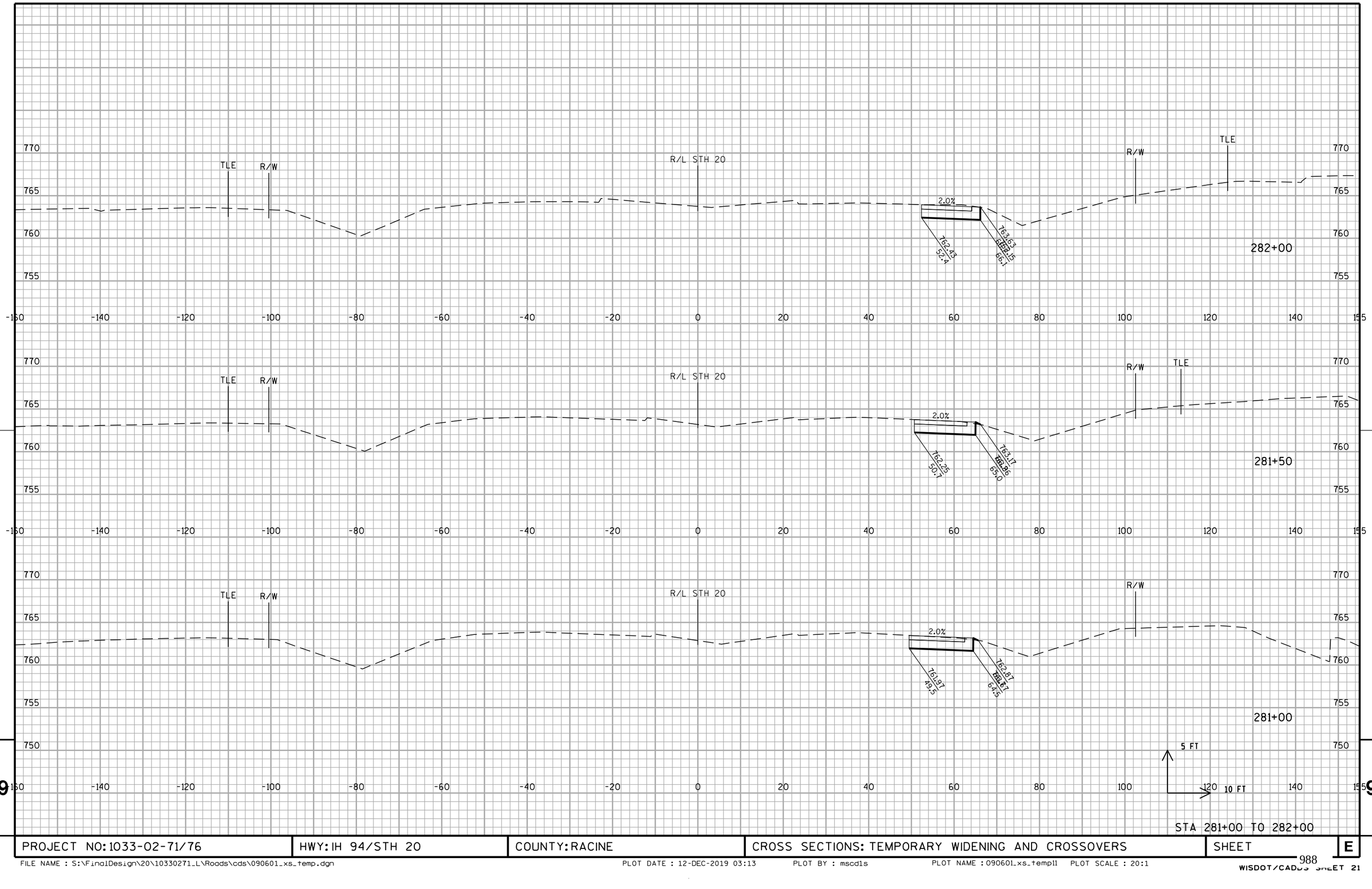
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FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:13 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp9 PLOT SCALE : 20:1



STA 279+50 TO 280+50

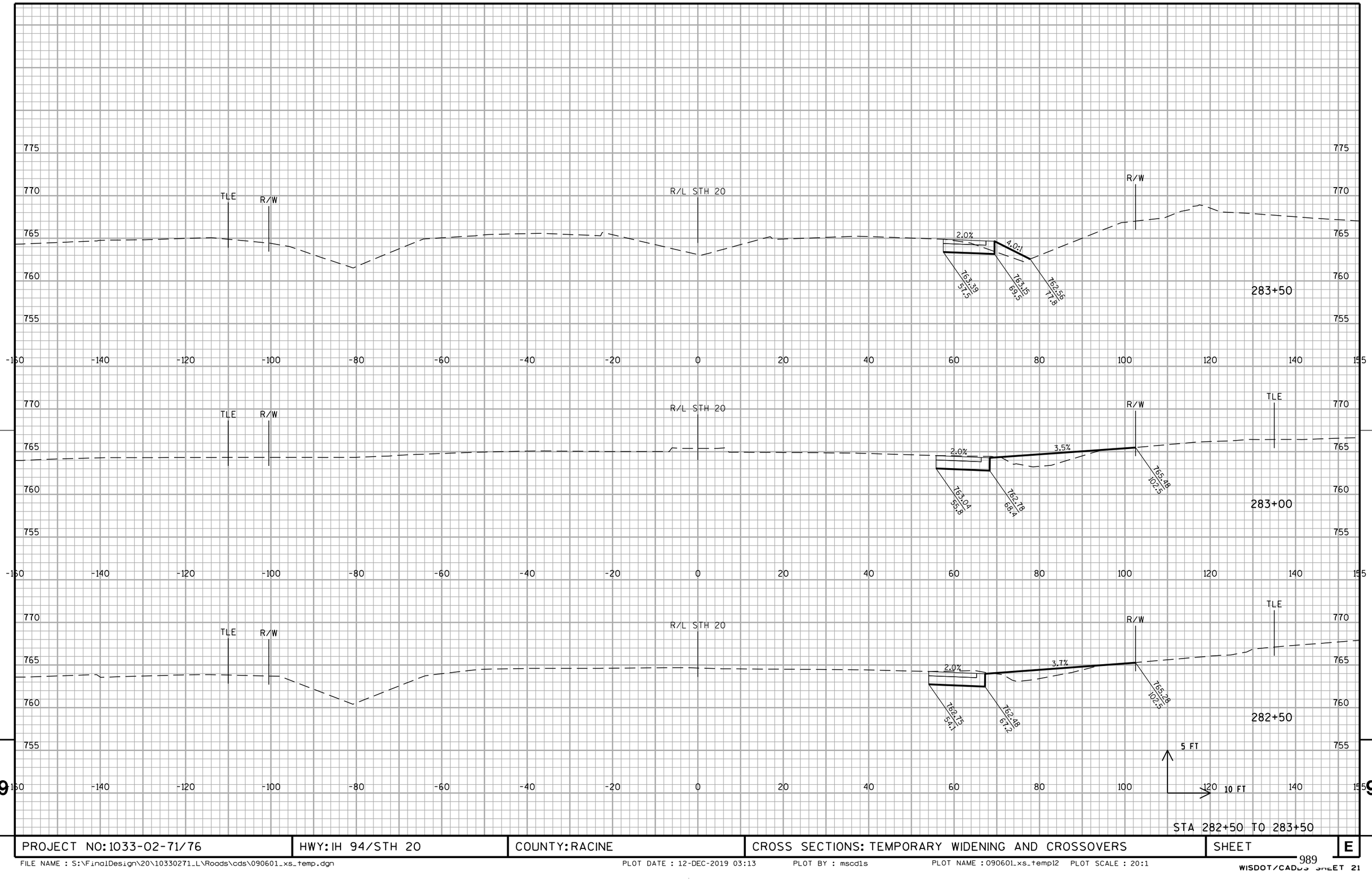
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E



STA 281+00 TO 282+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

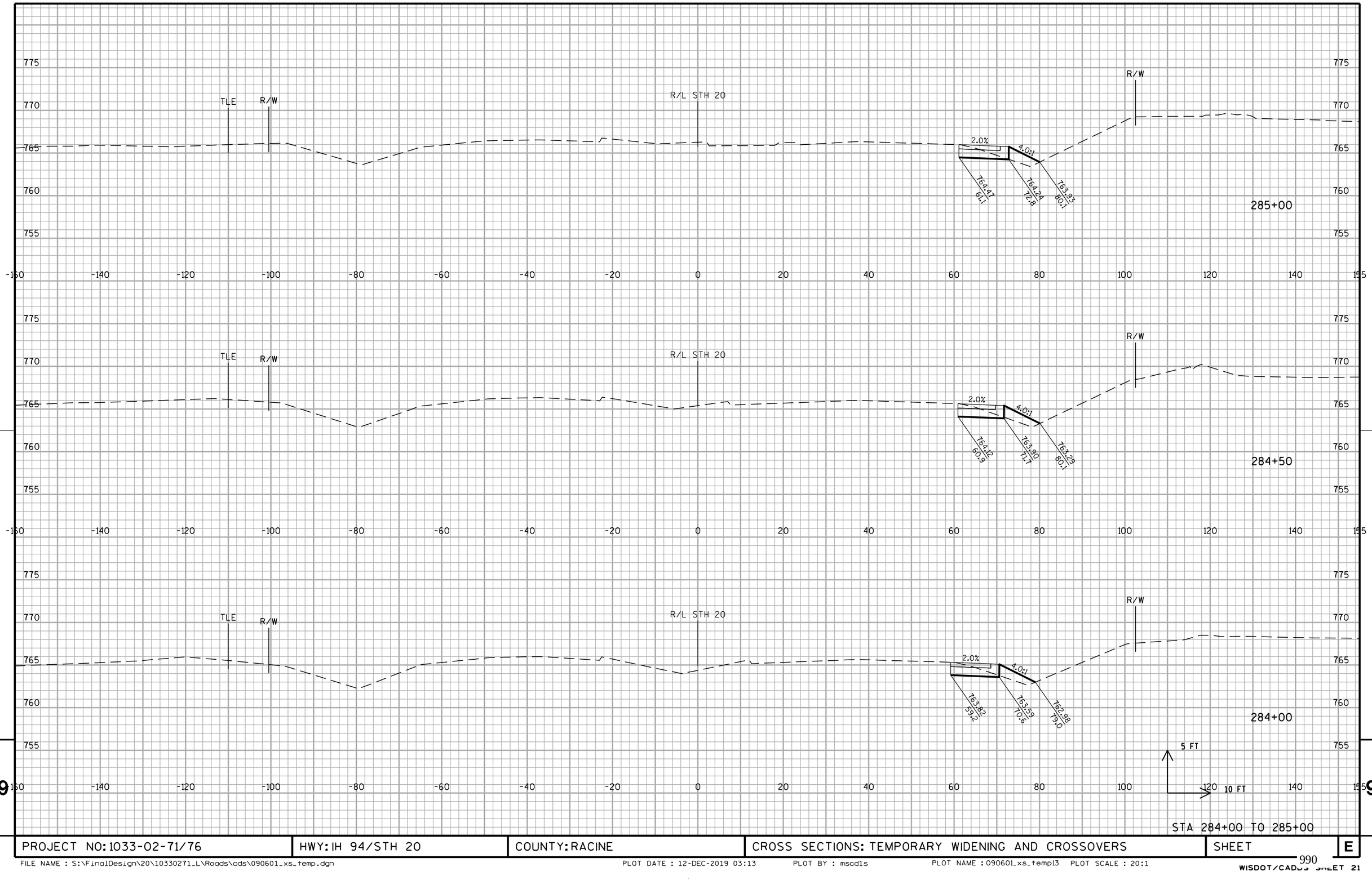
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STA 282+50 TO 283+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

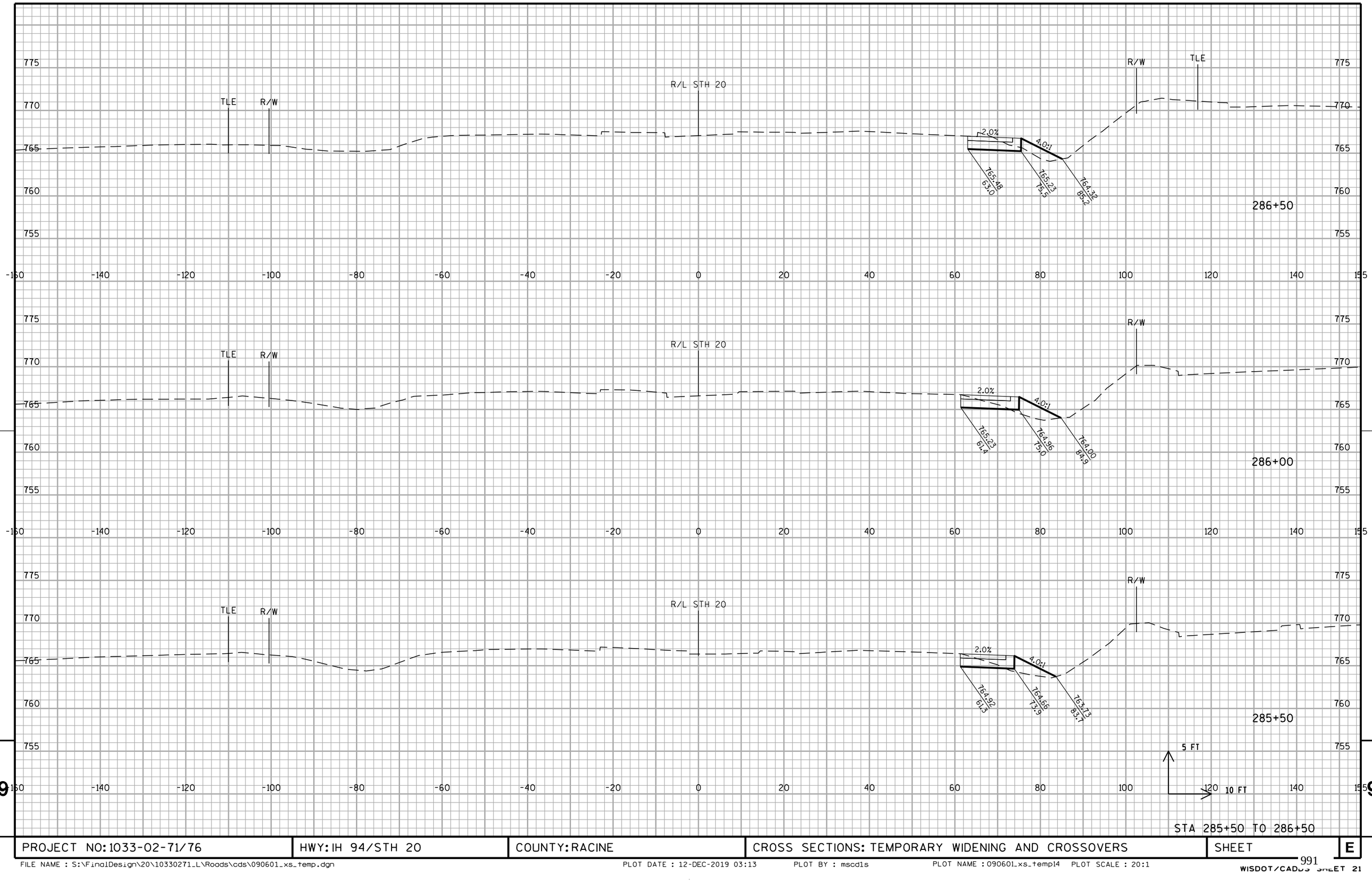
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WISDOT/CADDS SHEET 21



STA 284+00 TO 285+00

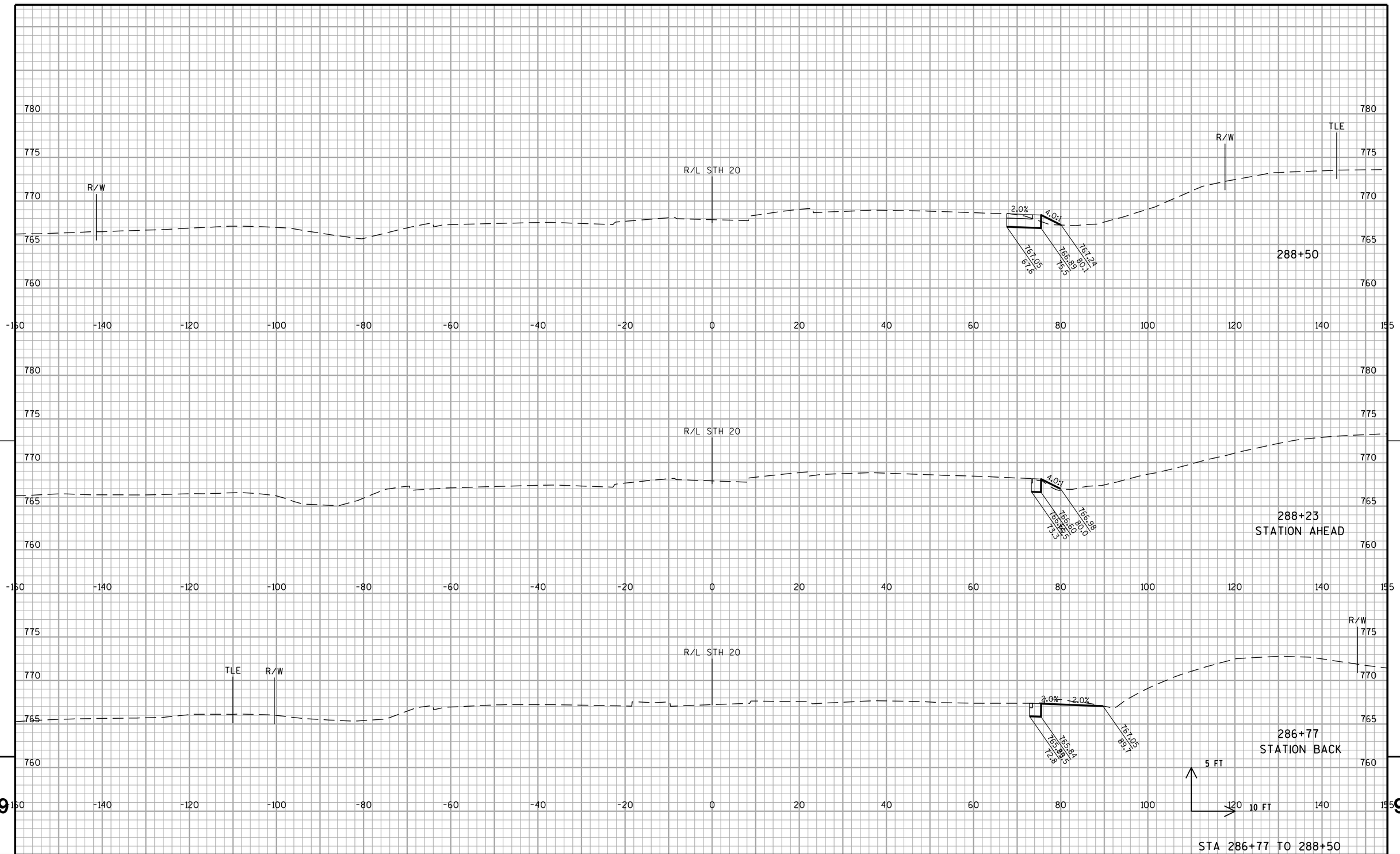
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:13 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp13 PLOT SCALE : 20:1



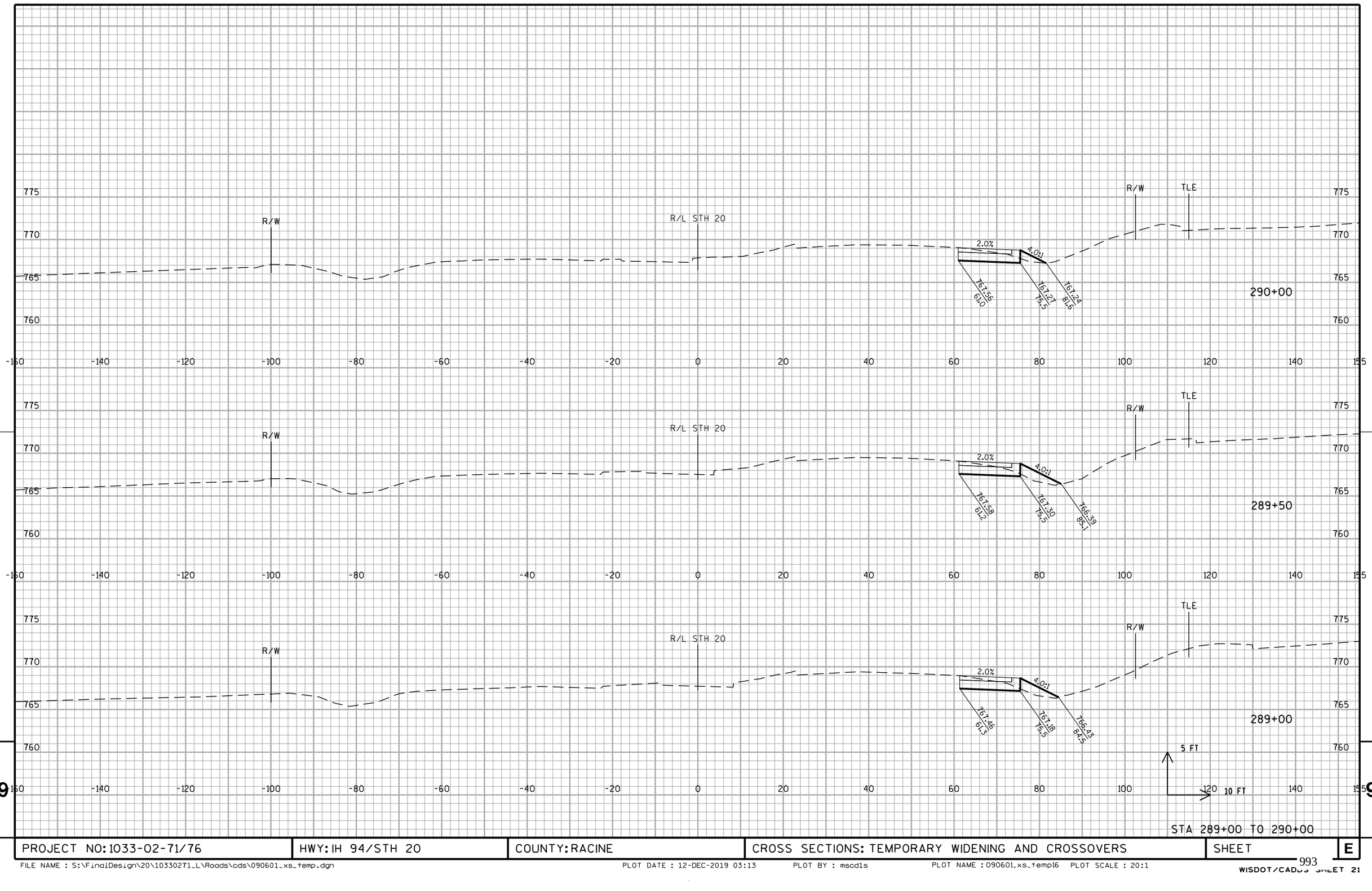
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:13 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp15 PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

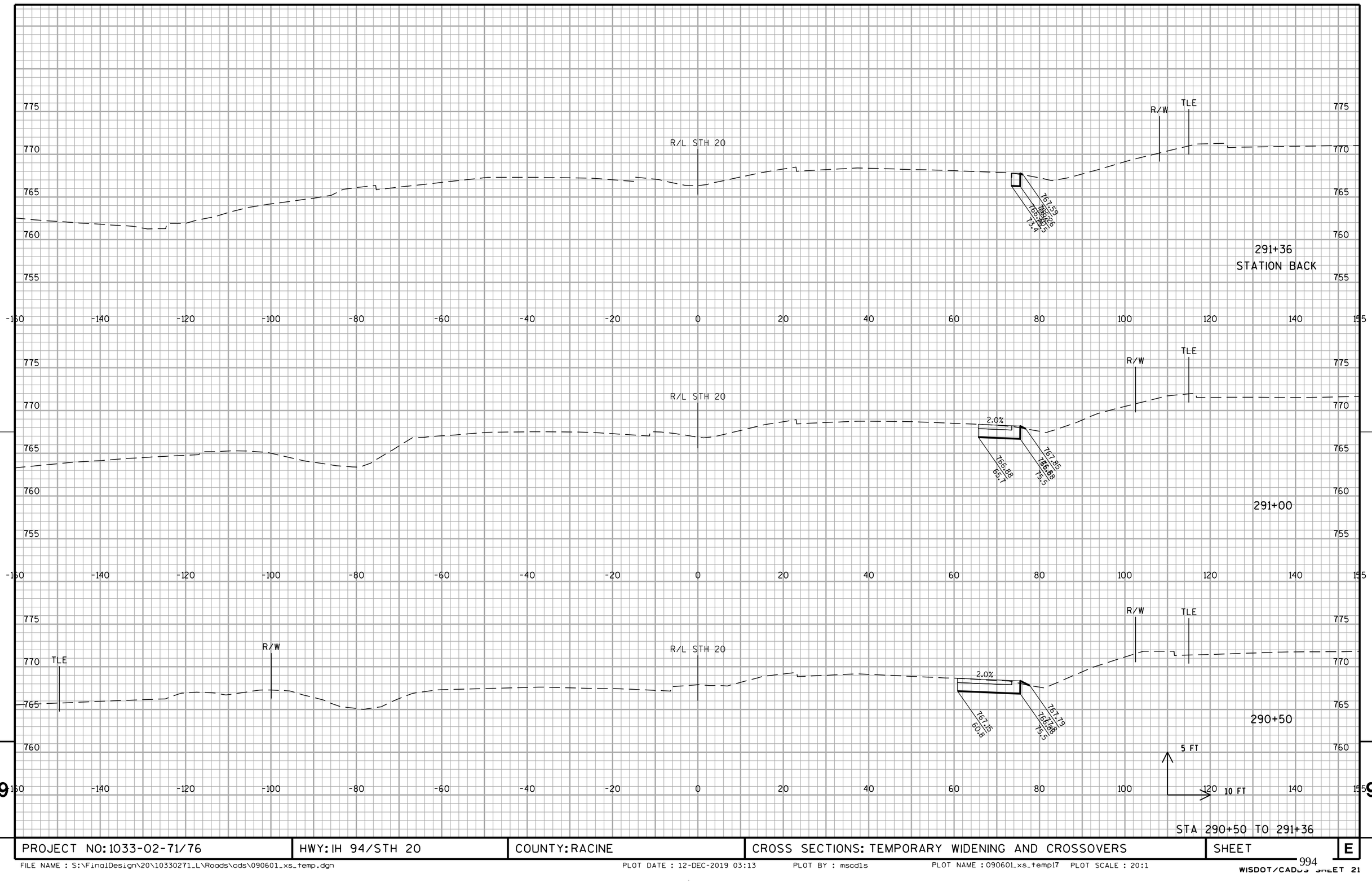


STA 289+00 TO 290+00

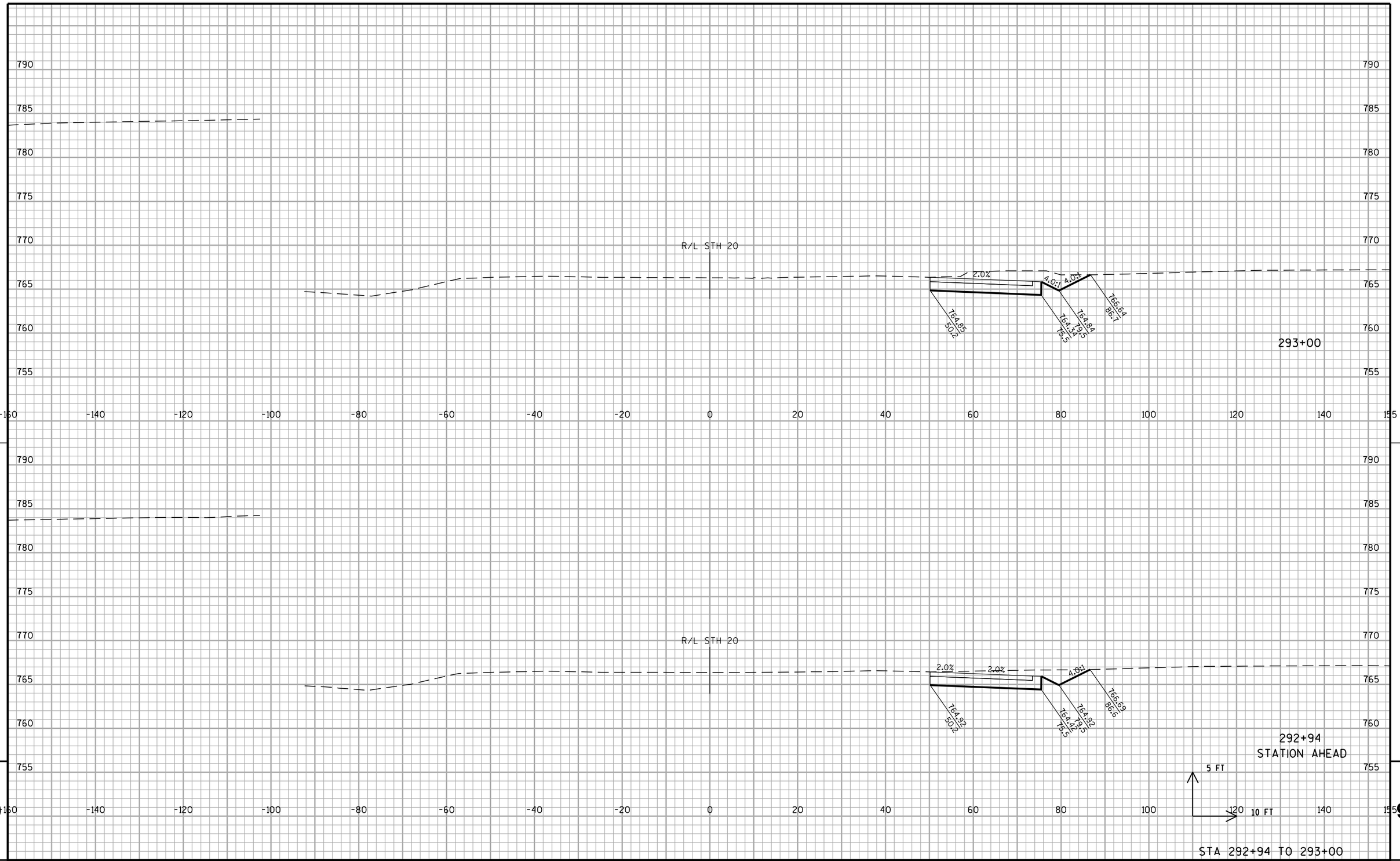
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

9 9

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:13 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp16 PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E



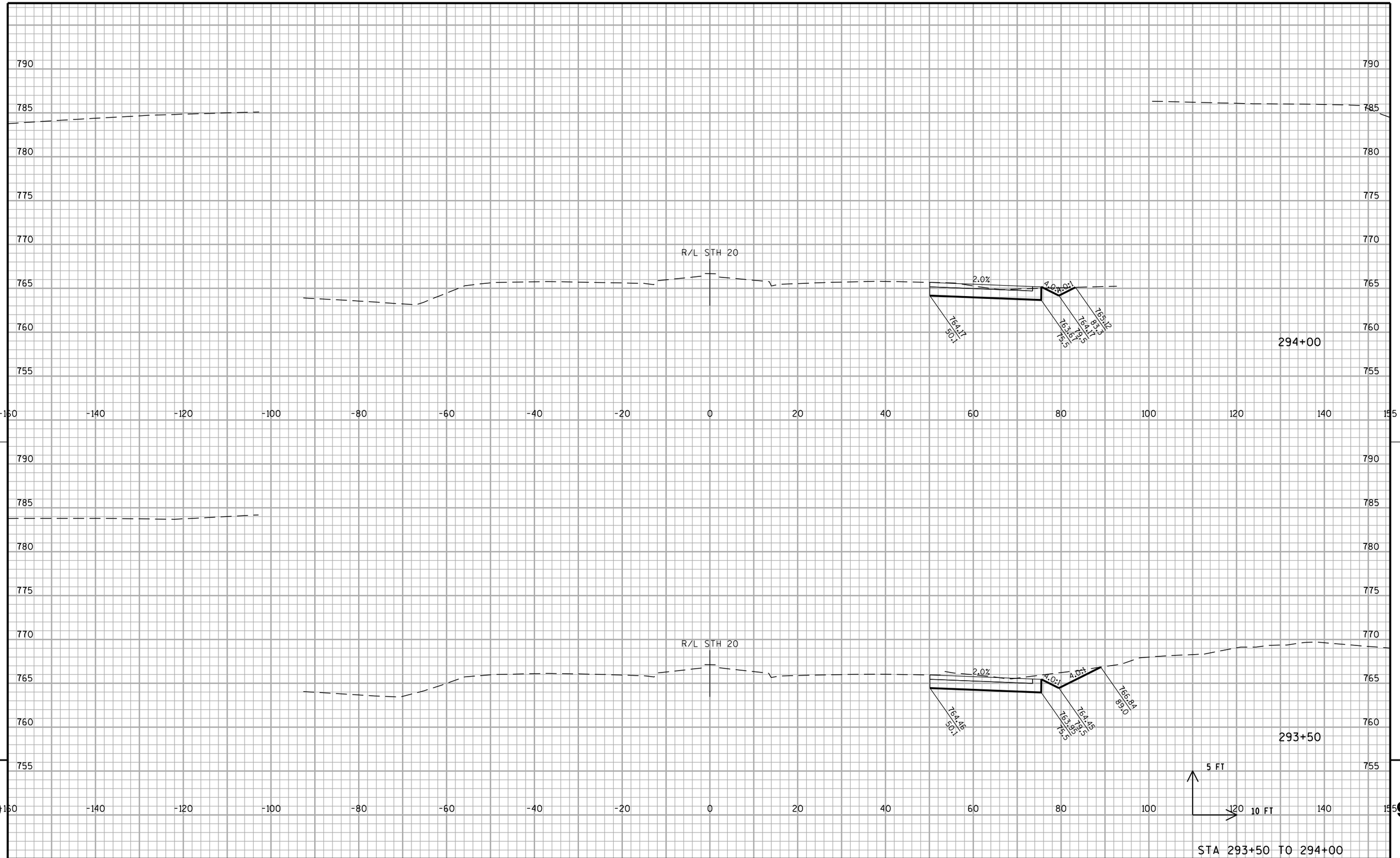
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STA 292+94 TO 293+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

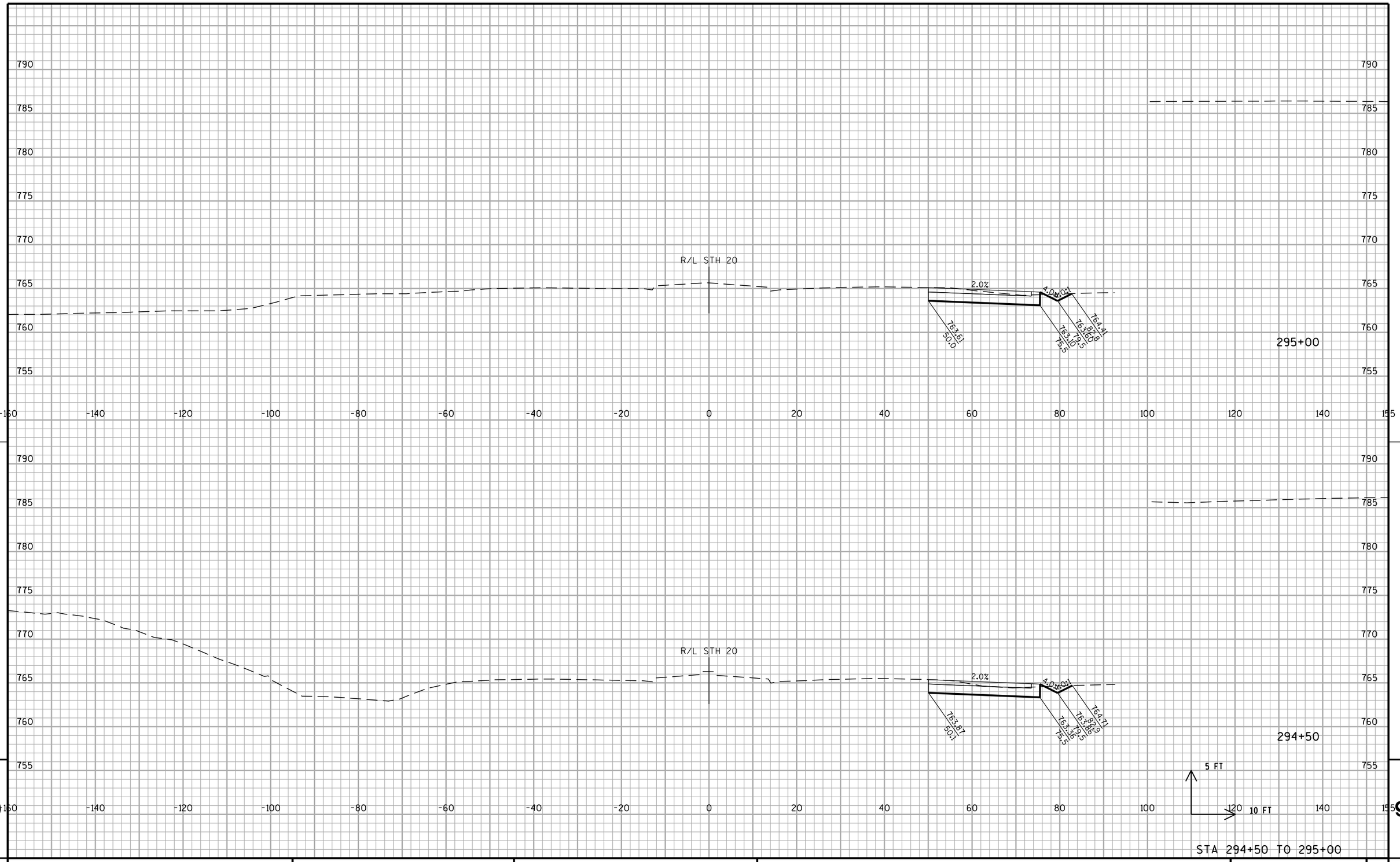
FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:14 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp18 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 293+50 TO 294+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E



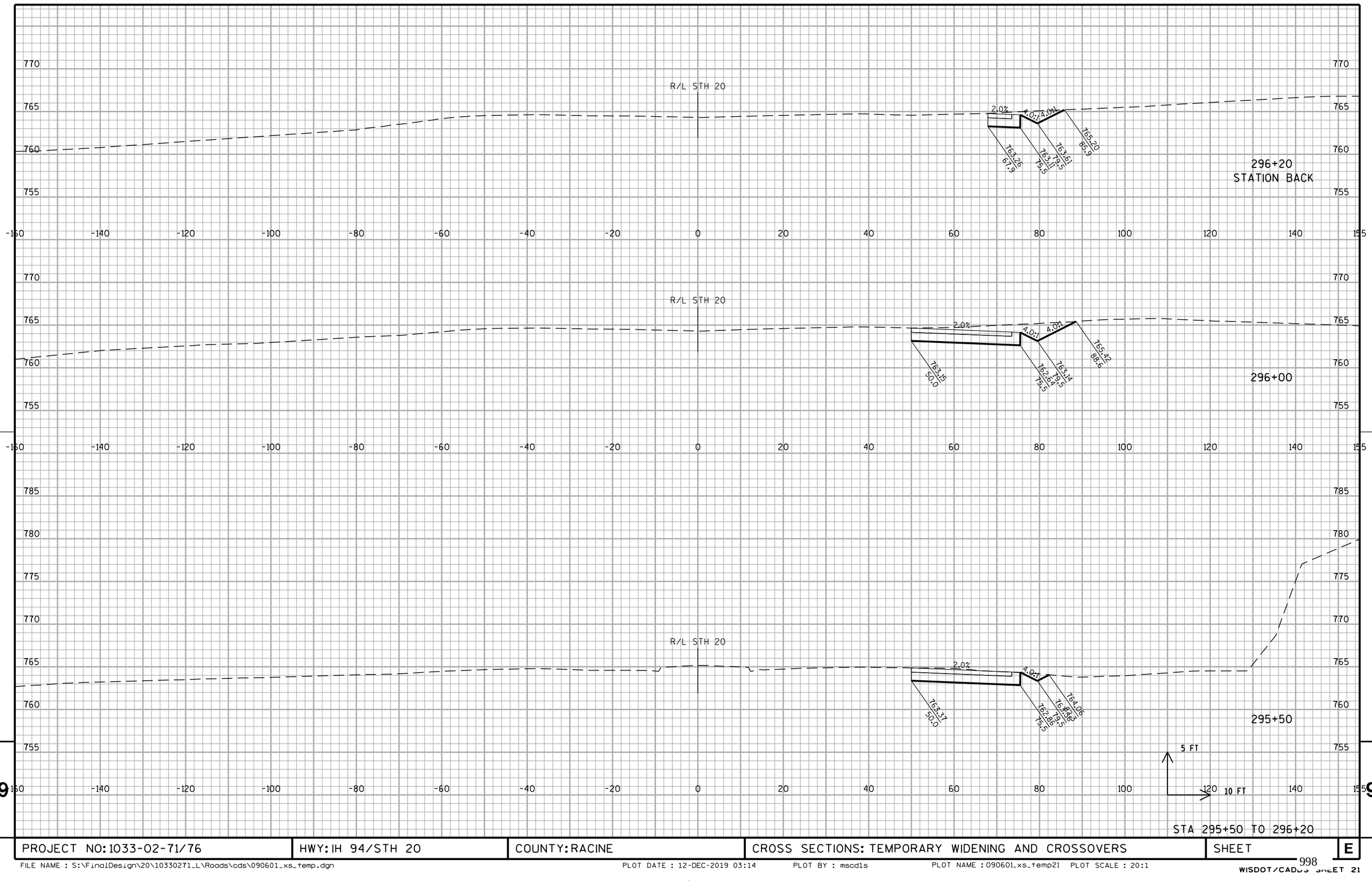
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

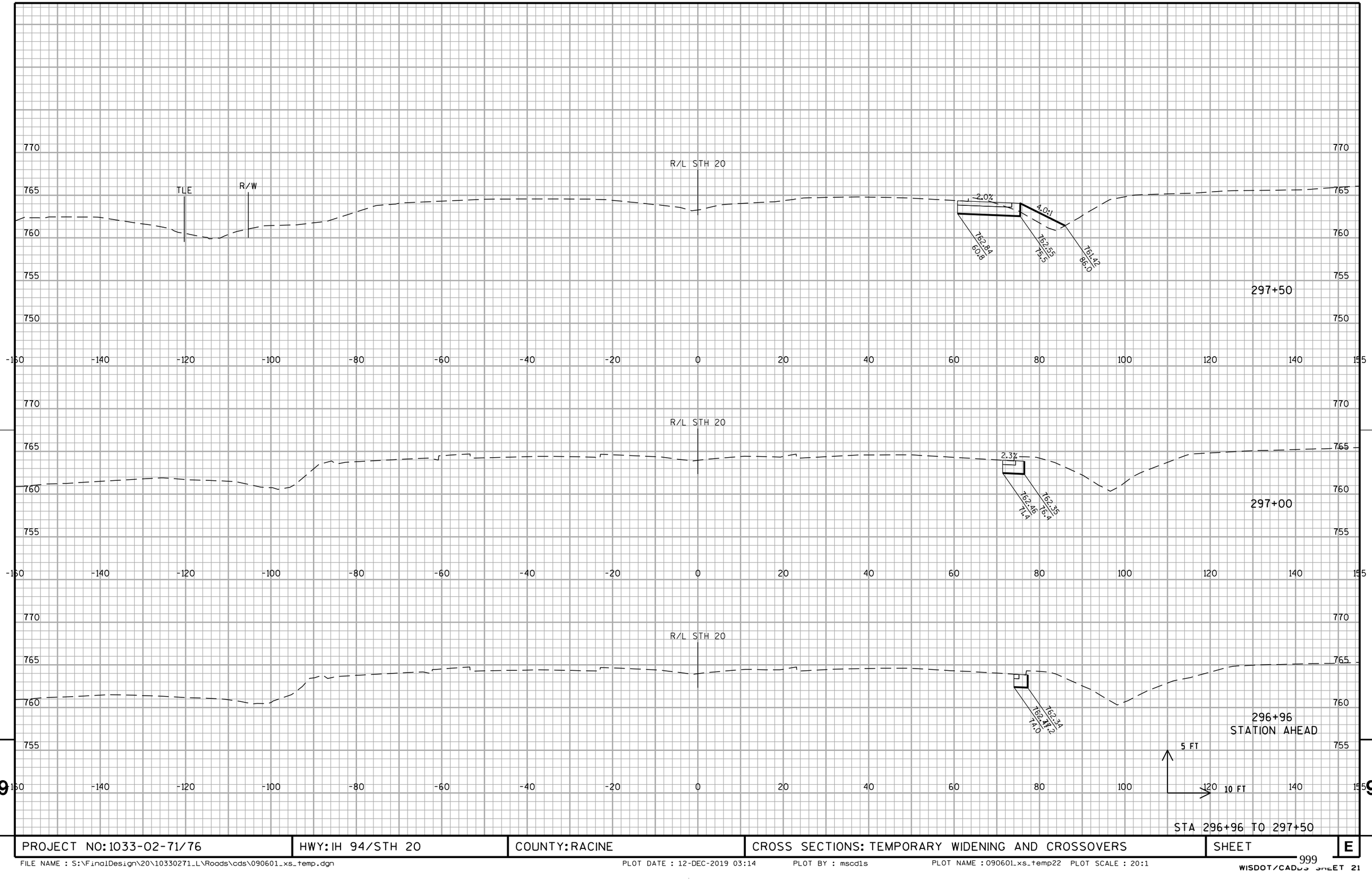
STA 294+50 TO 295+00

9

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WISDOT/CADDS SHEET 21



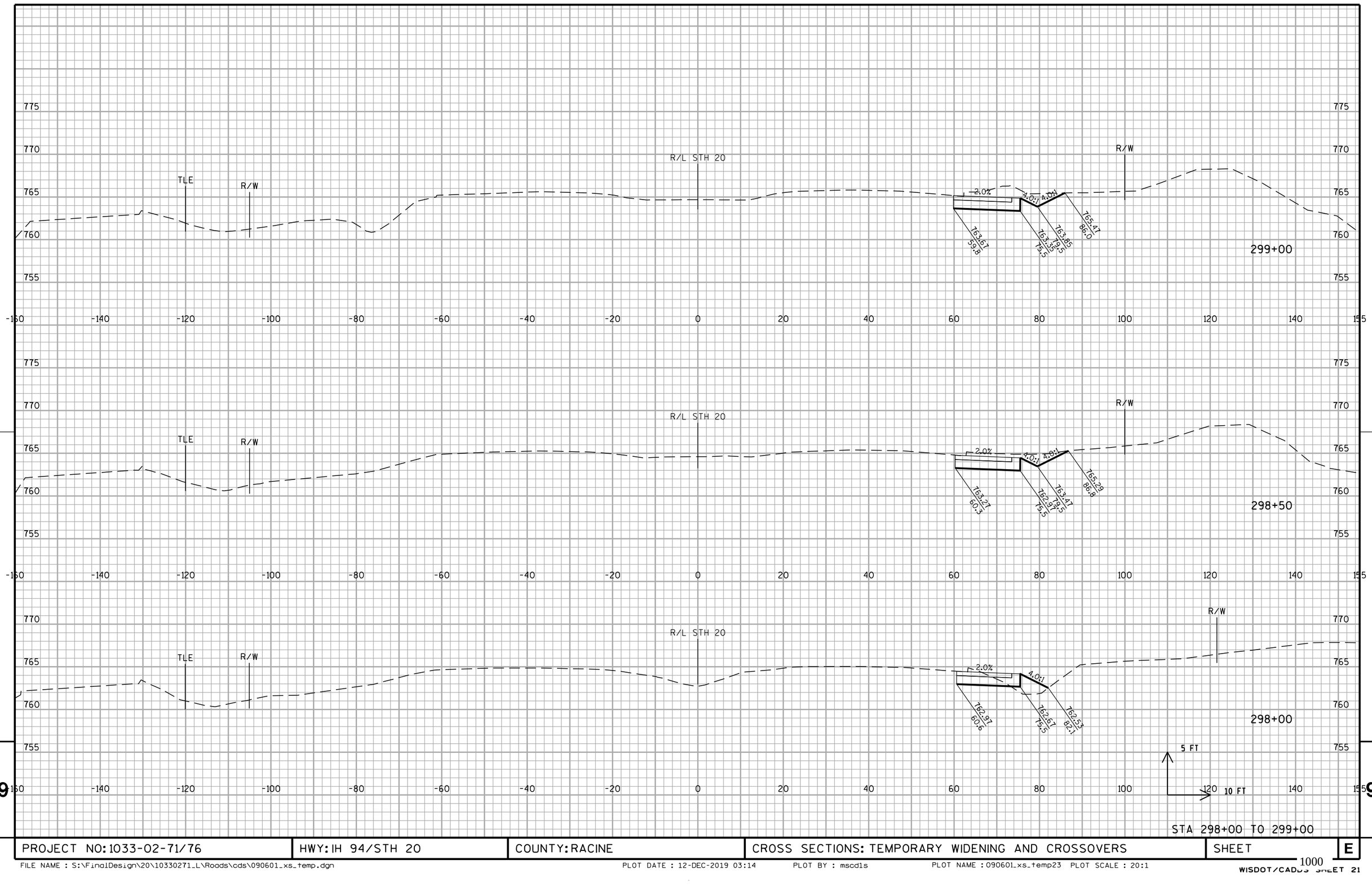
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

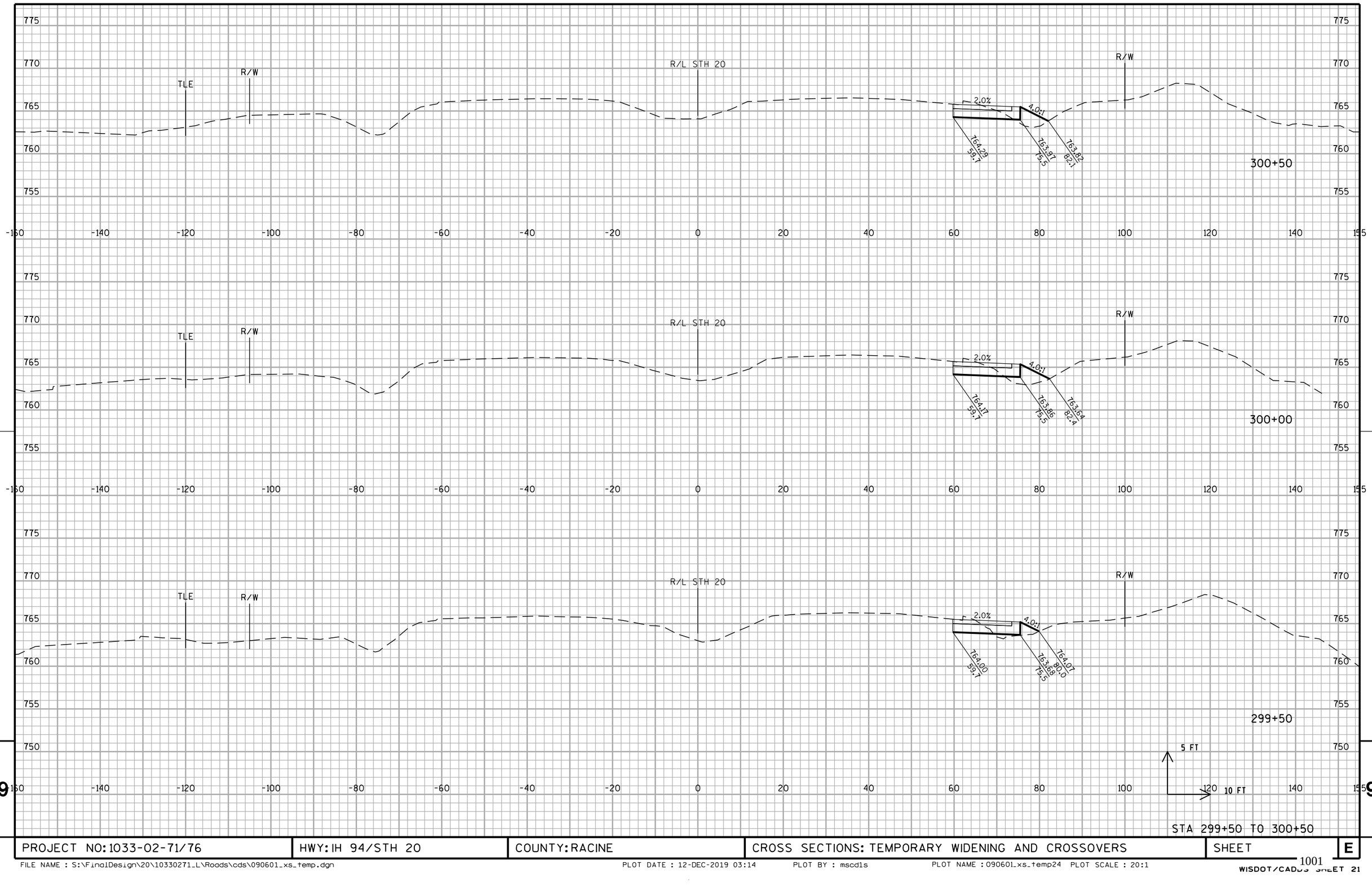
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WISDOT/CADDS SHEET 21



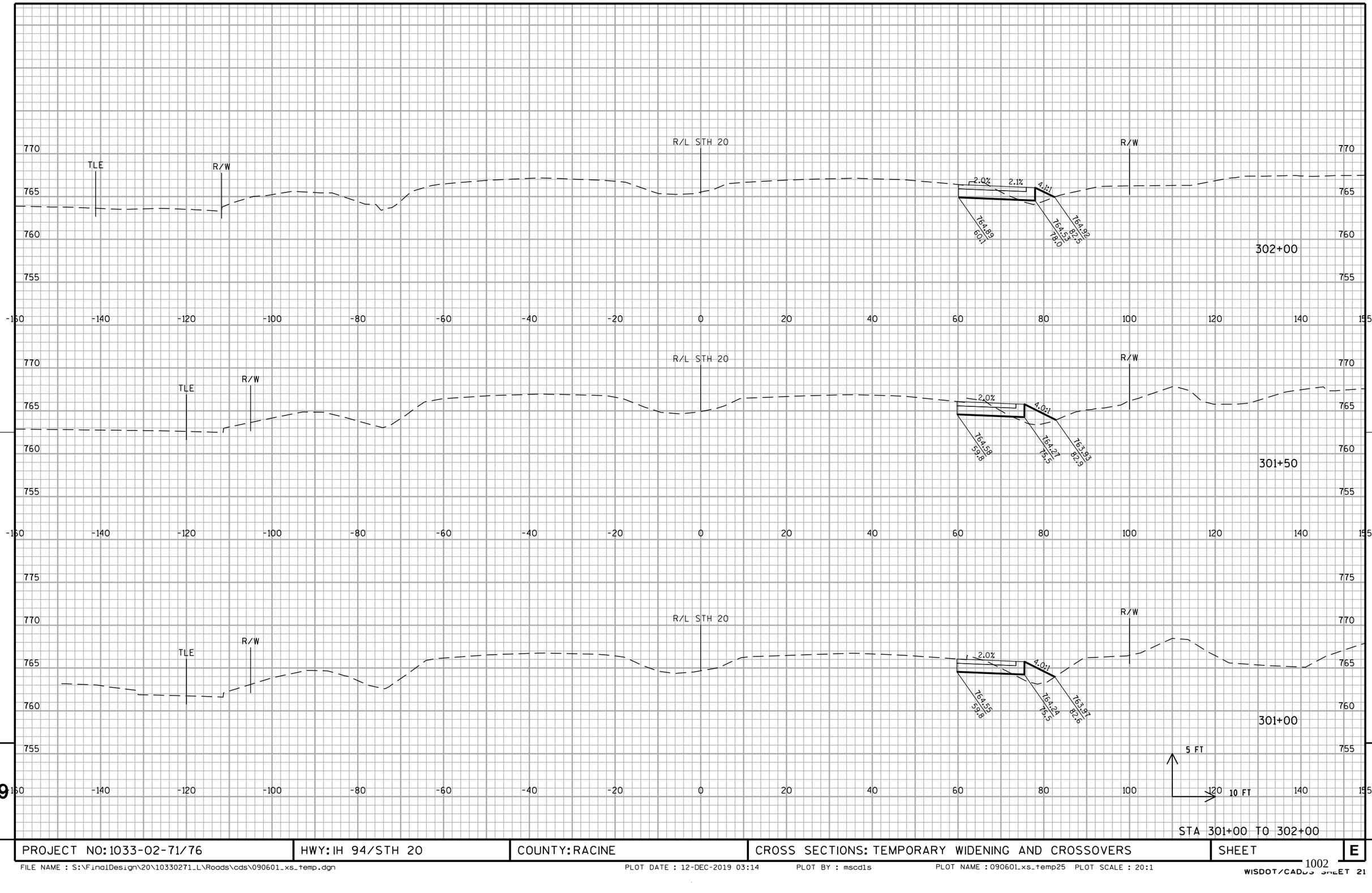
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:14 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp23 PLOT SCALE : 20:1



STA 299+50 TO 300+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E



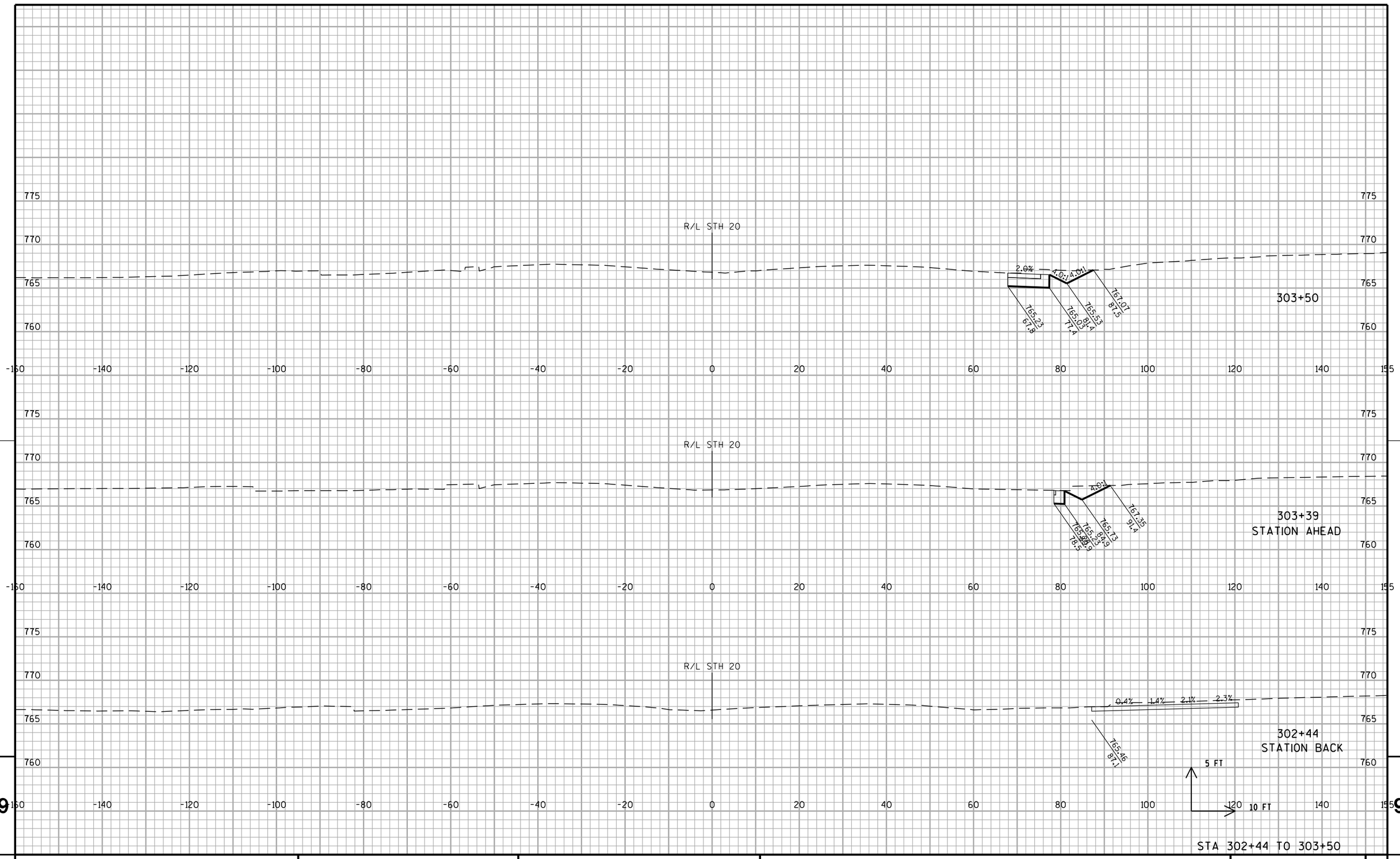
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STA 301+00 TO 302+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

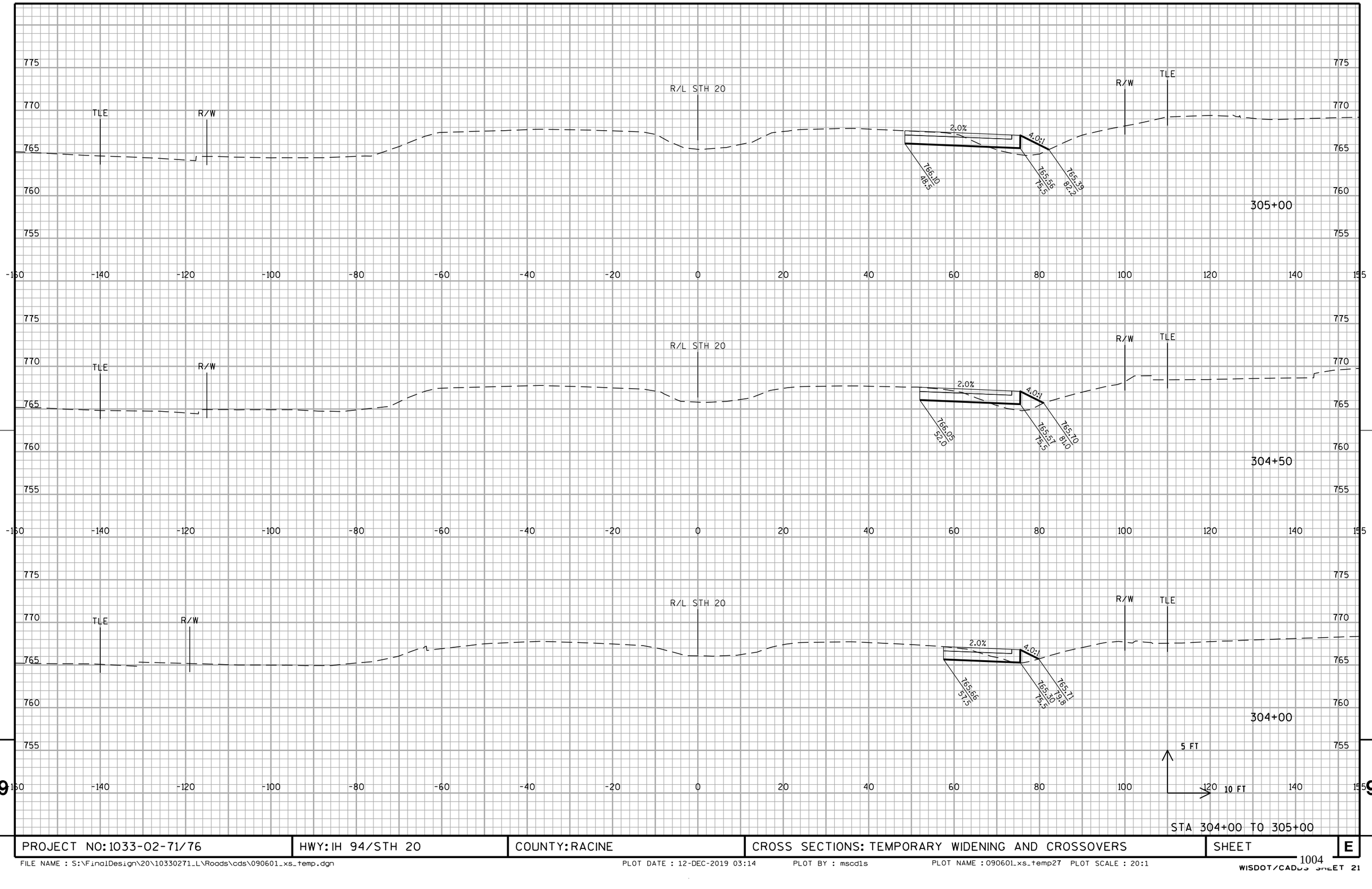
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:14 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp26 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

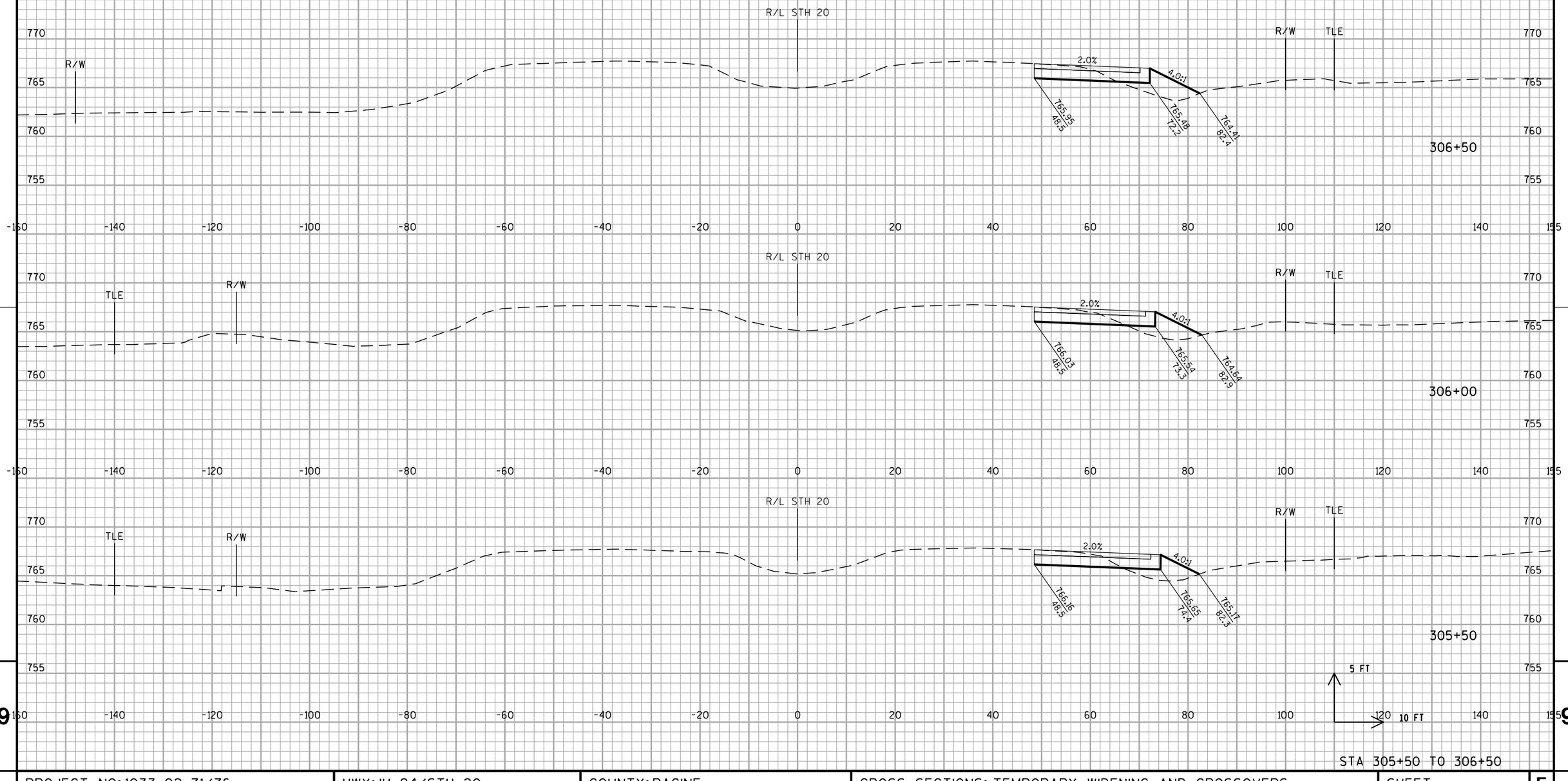


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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

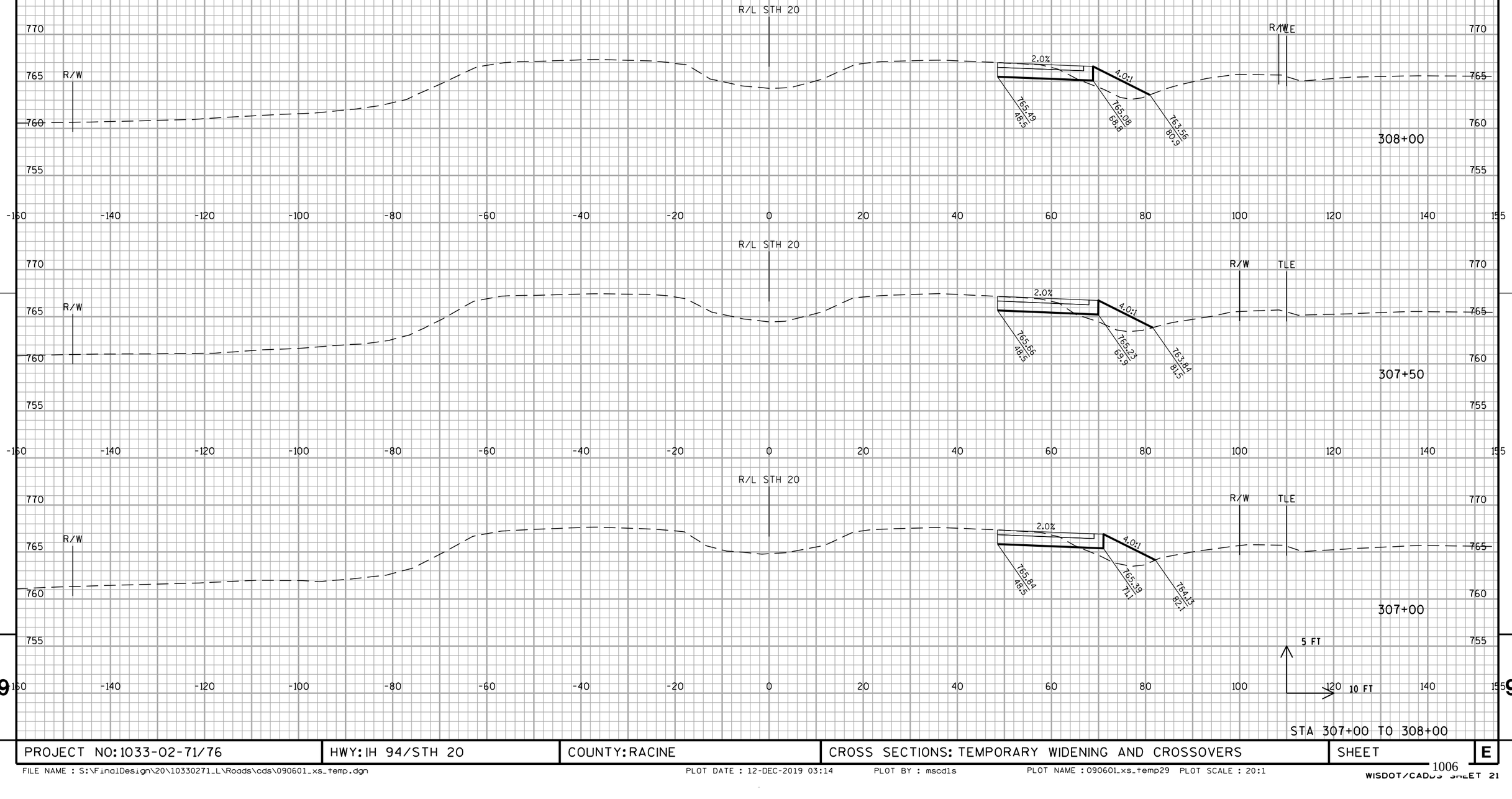
STA 304+00 TO 305+00

9



STA 305+50 TO 306+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

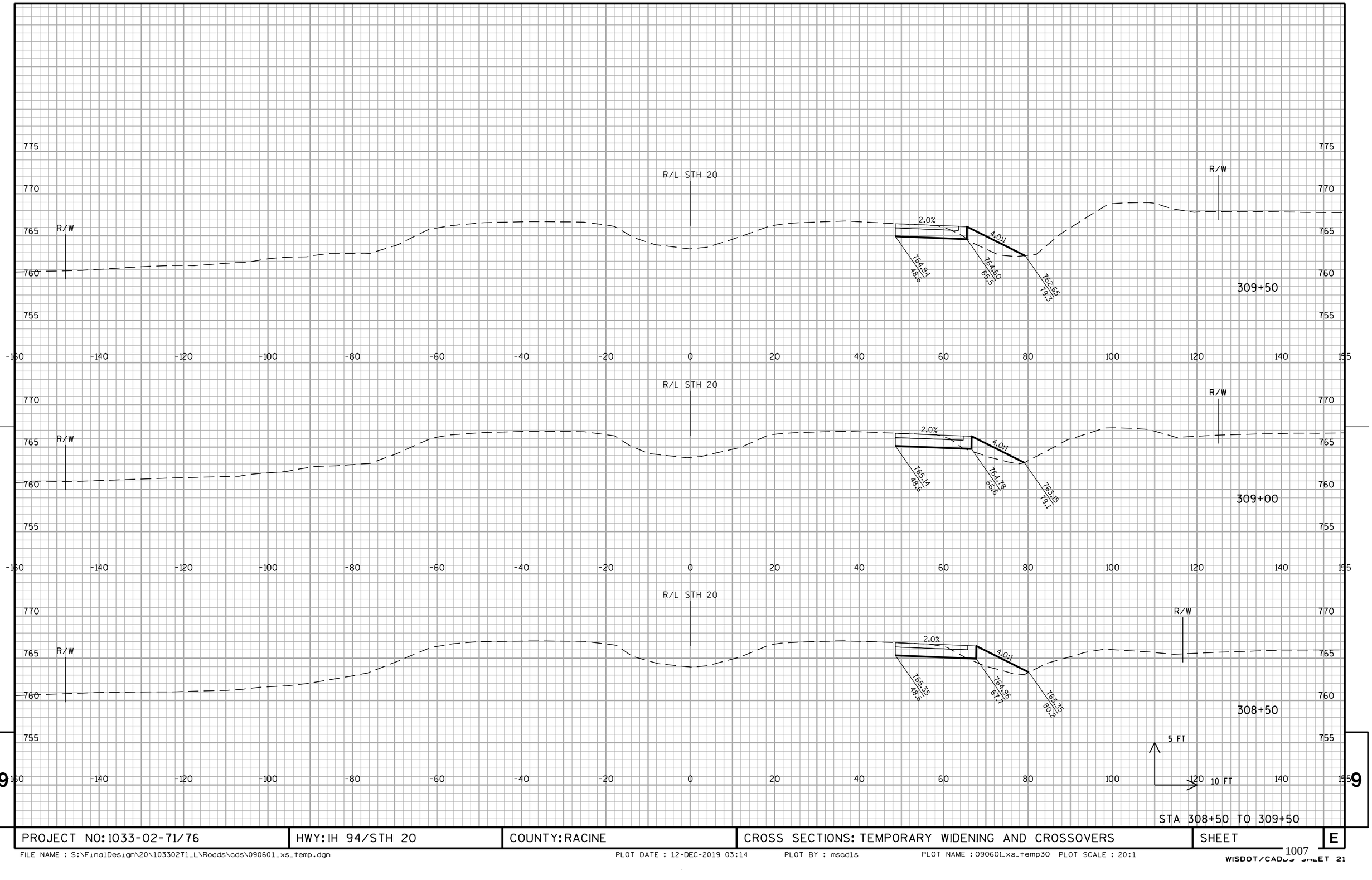


STA 307+00 TO 308+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

9 9

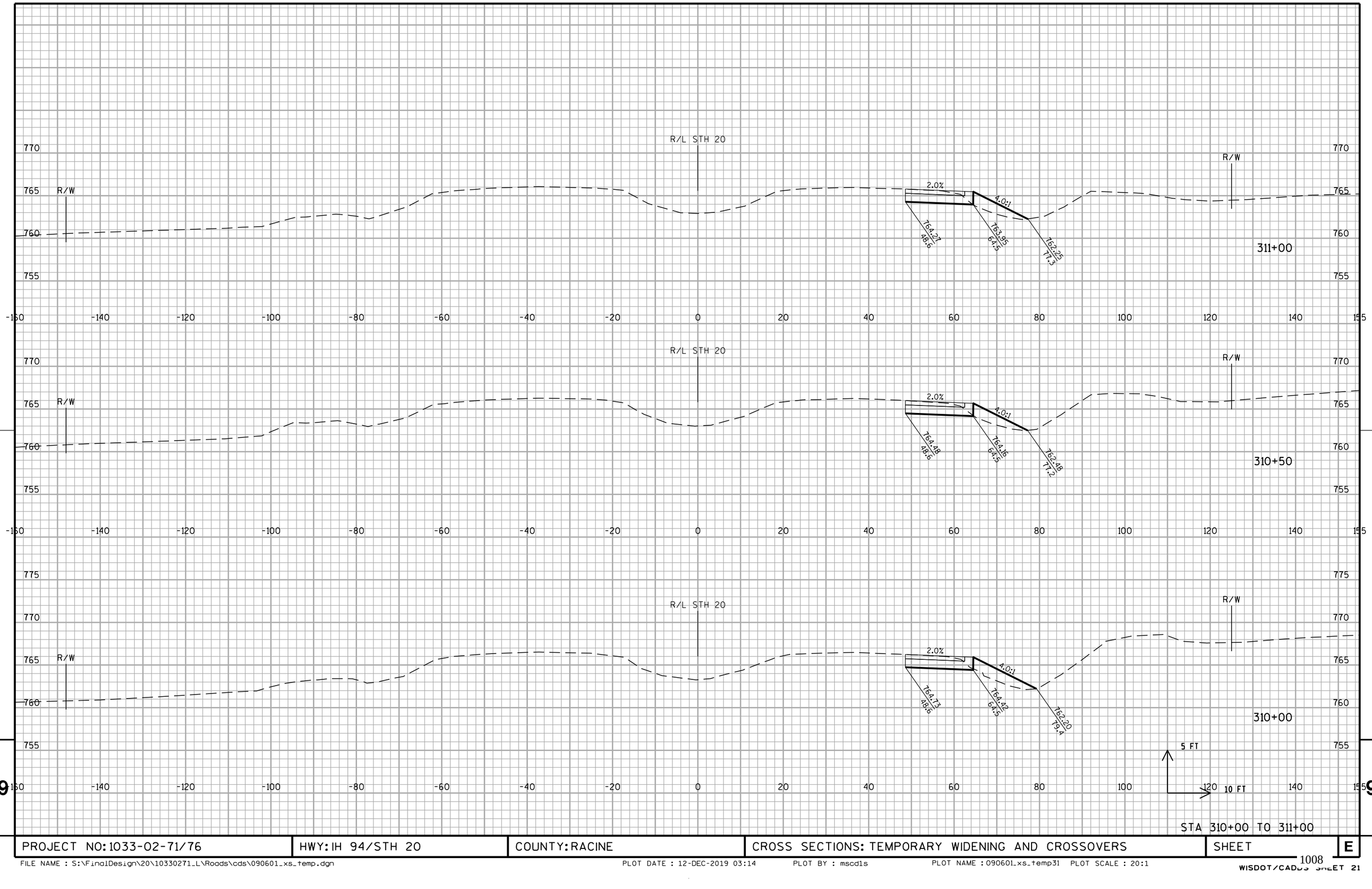
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WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

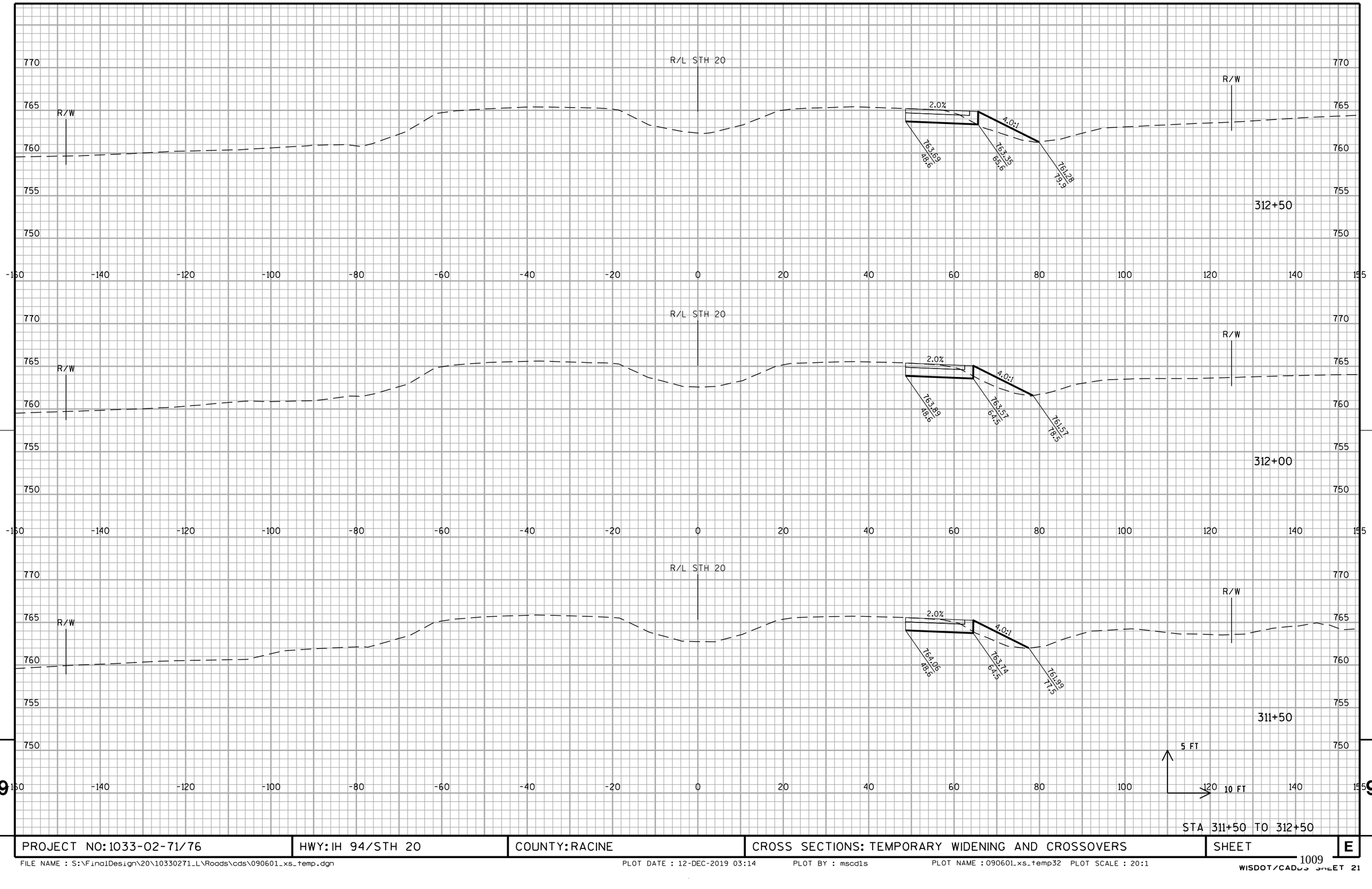
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WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:14 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp31 PLOT SCALE : 20:1

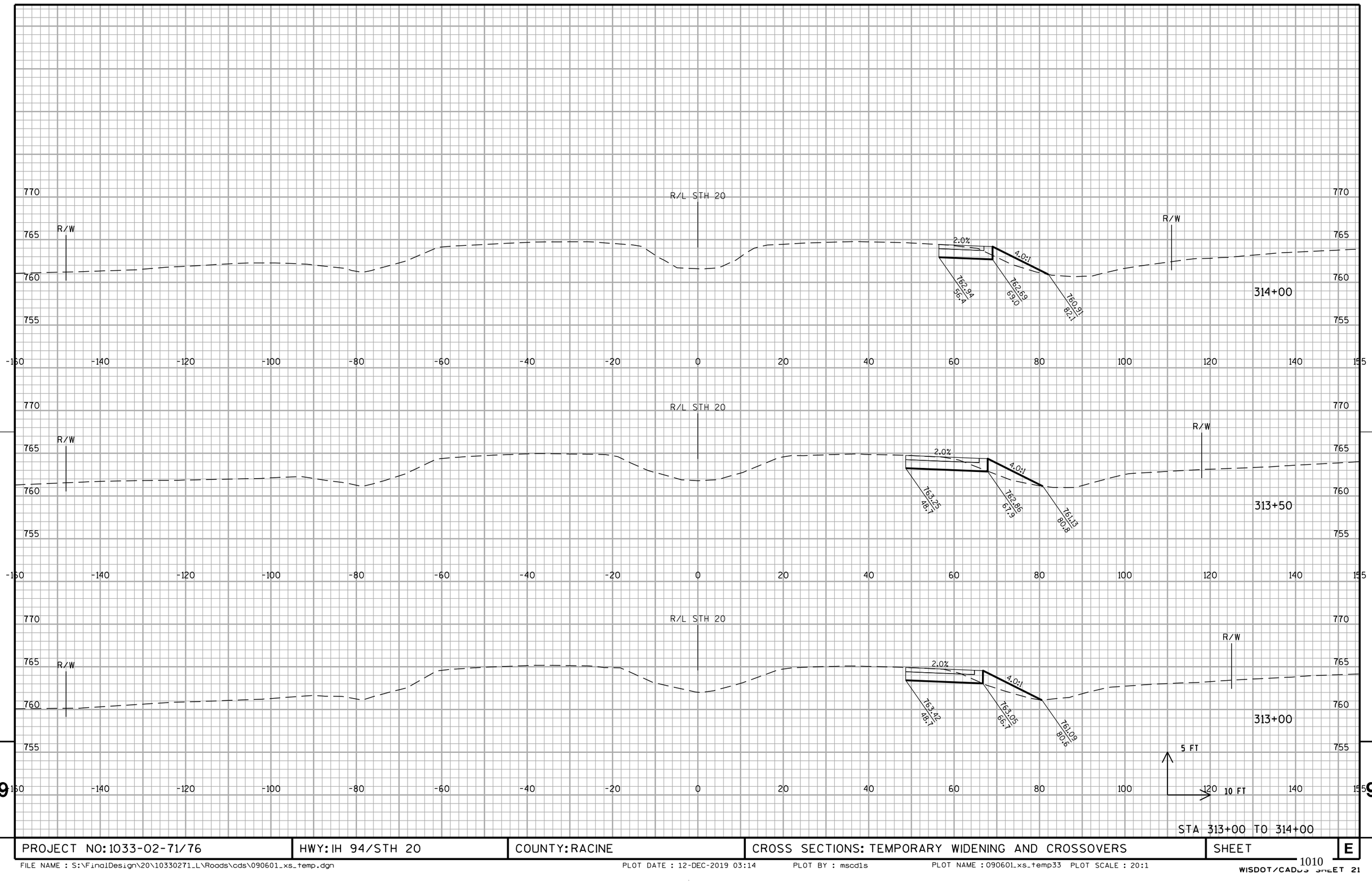


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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

STA 311+50 TO 312+50

9

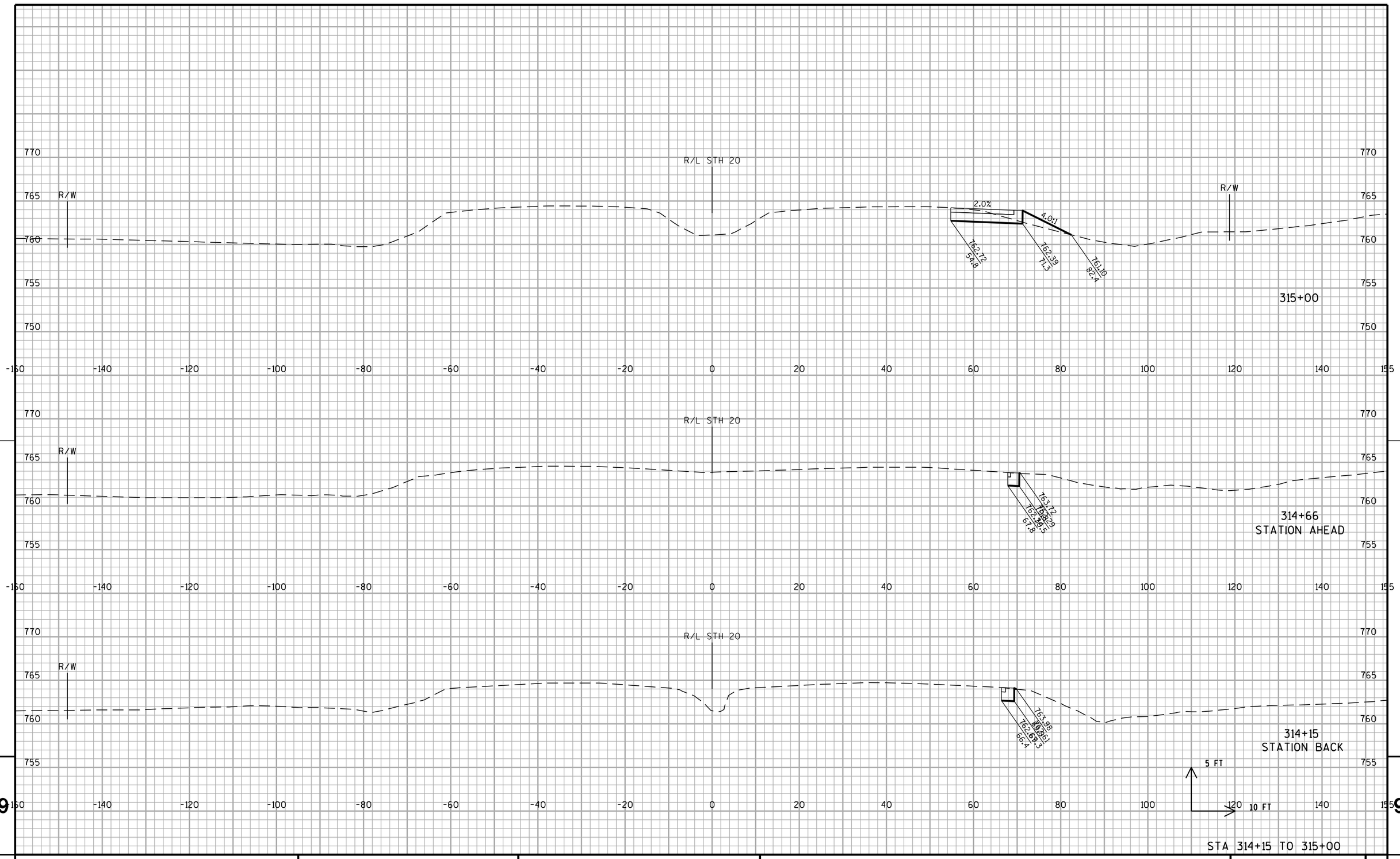


STA 313+00 TO 314+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

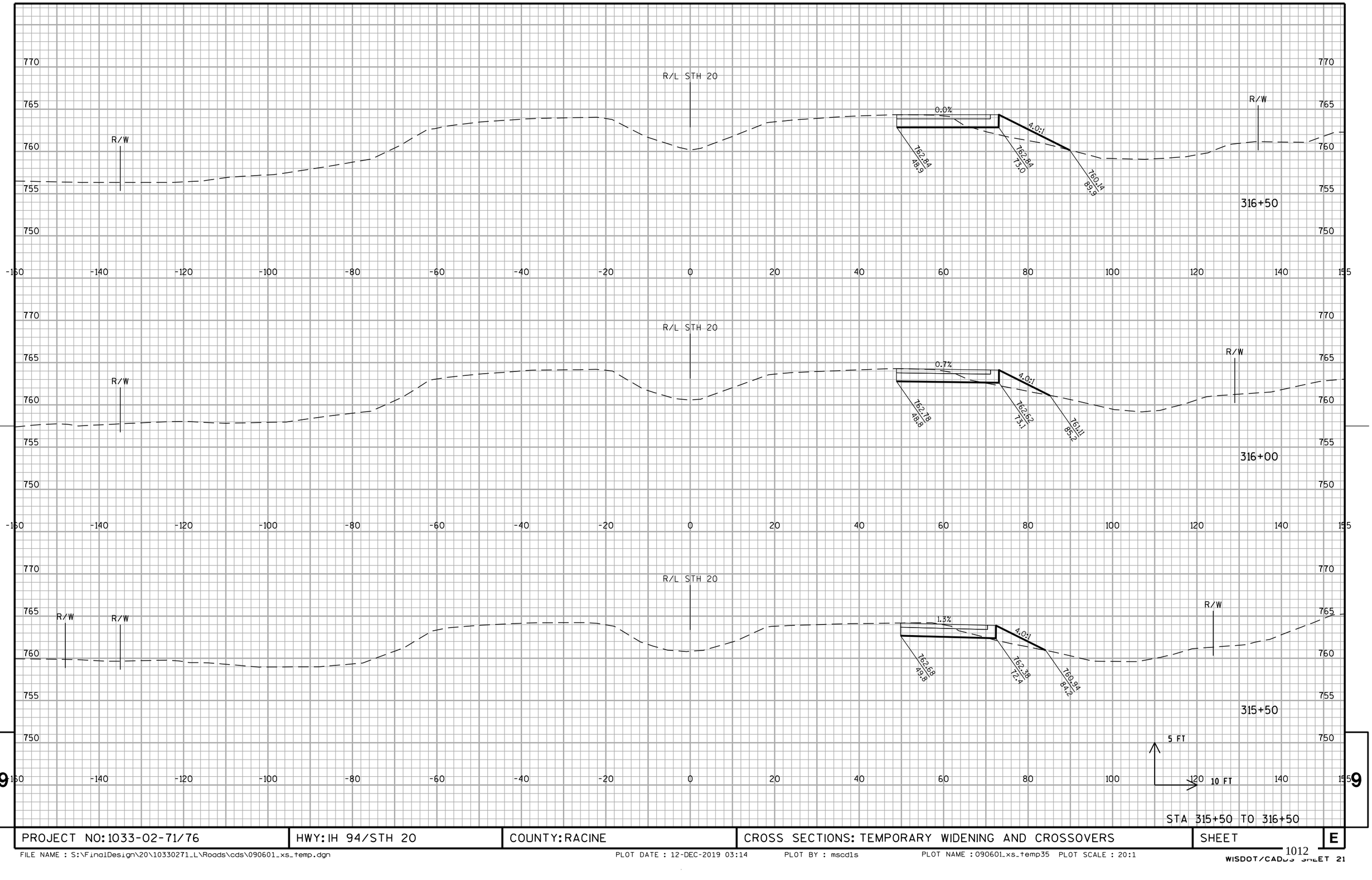
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WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:14 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp34 PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



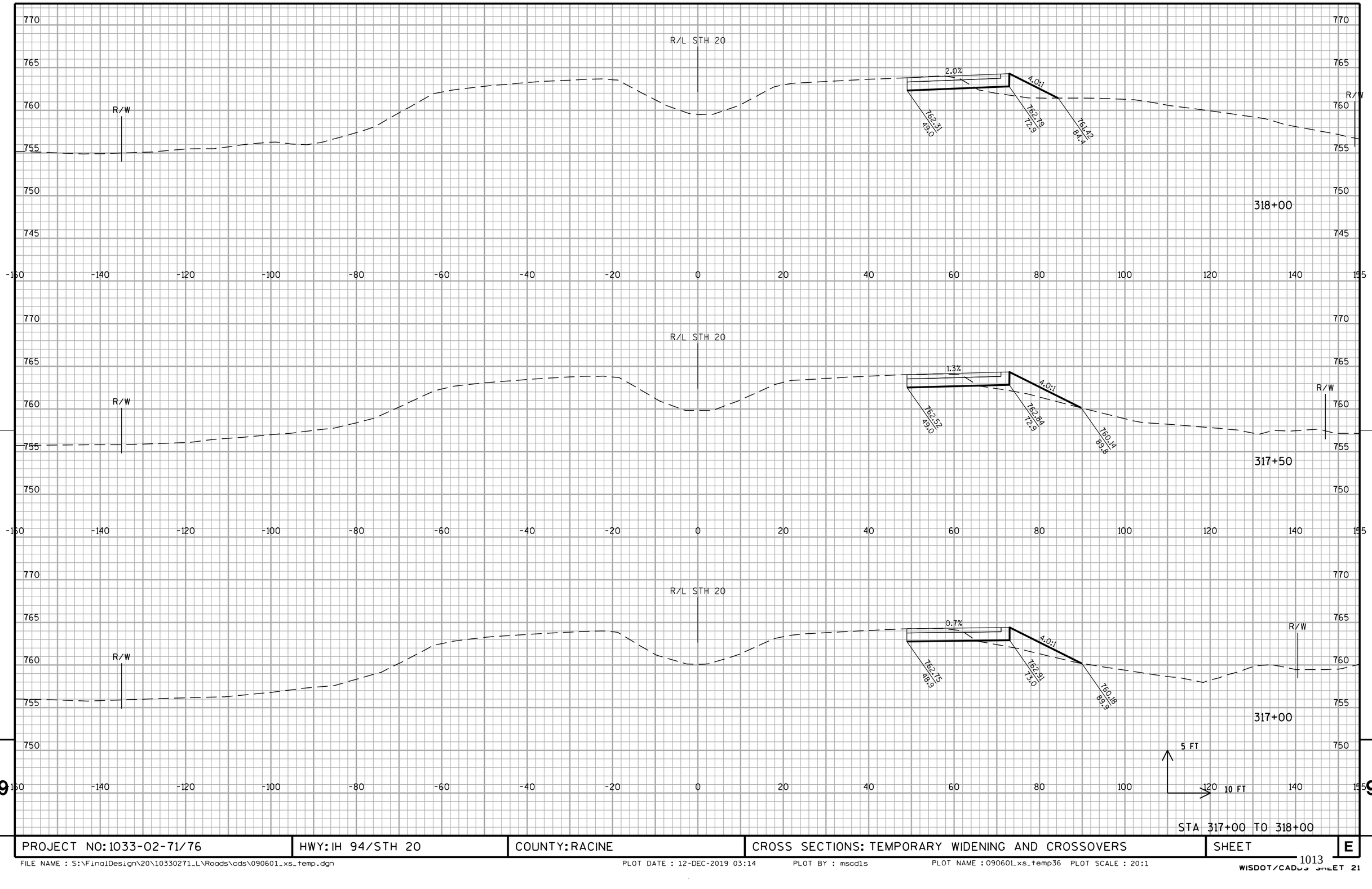
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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

STA 315+50 TO 316+50

9

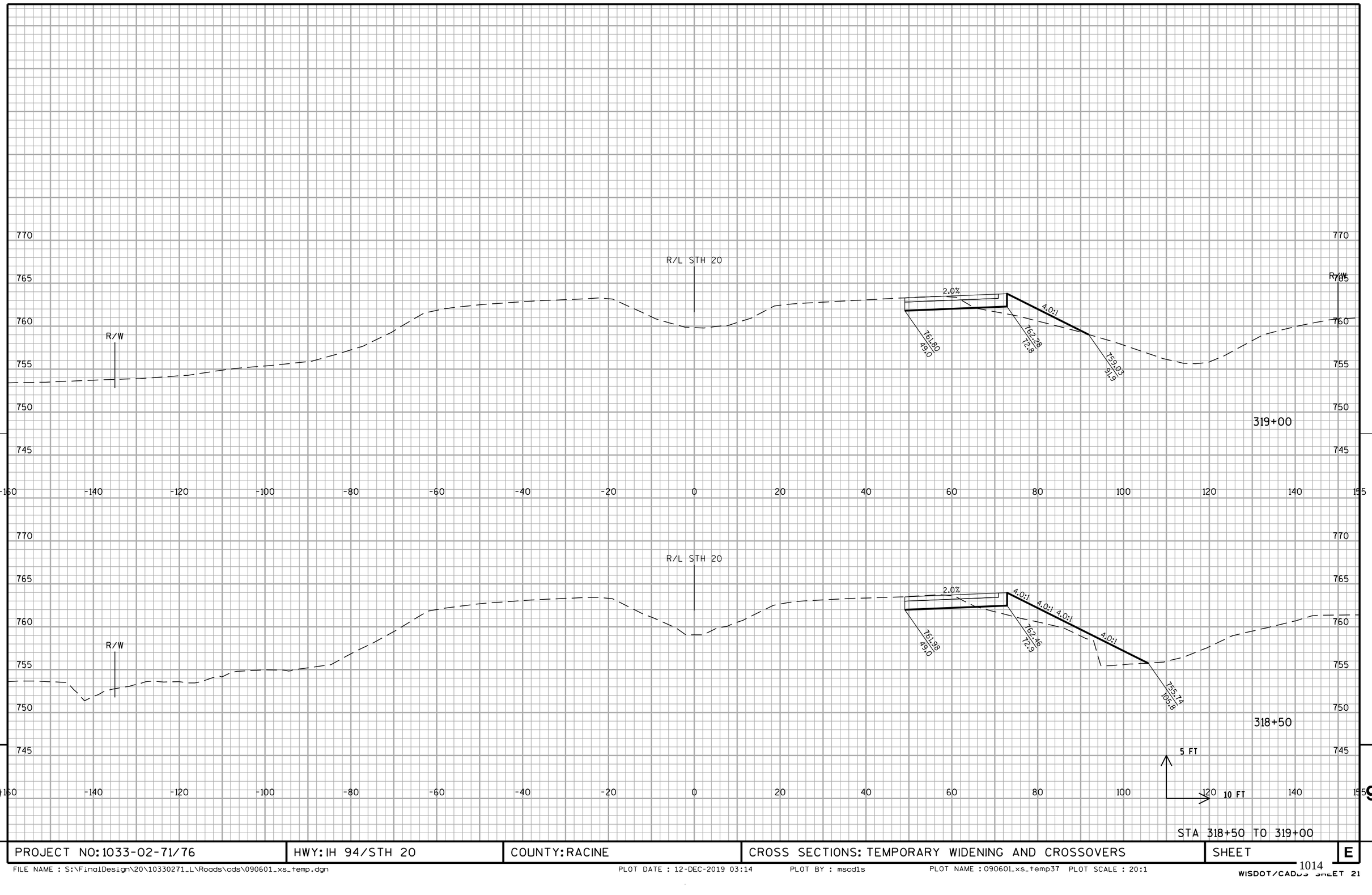
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STA 317+00 TO 318+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:14 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp36 PLOT SCALE : 20:1



9

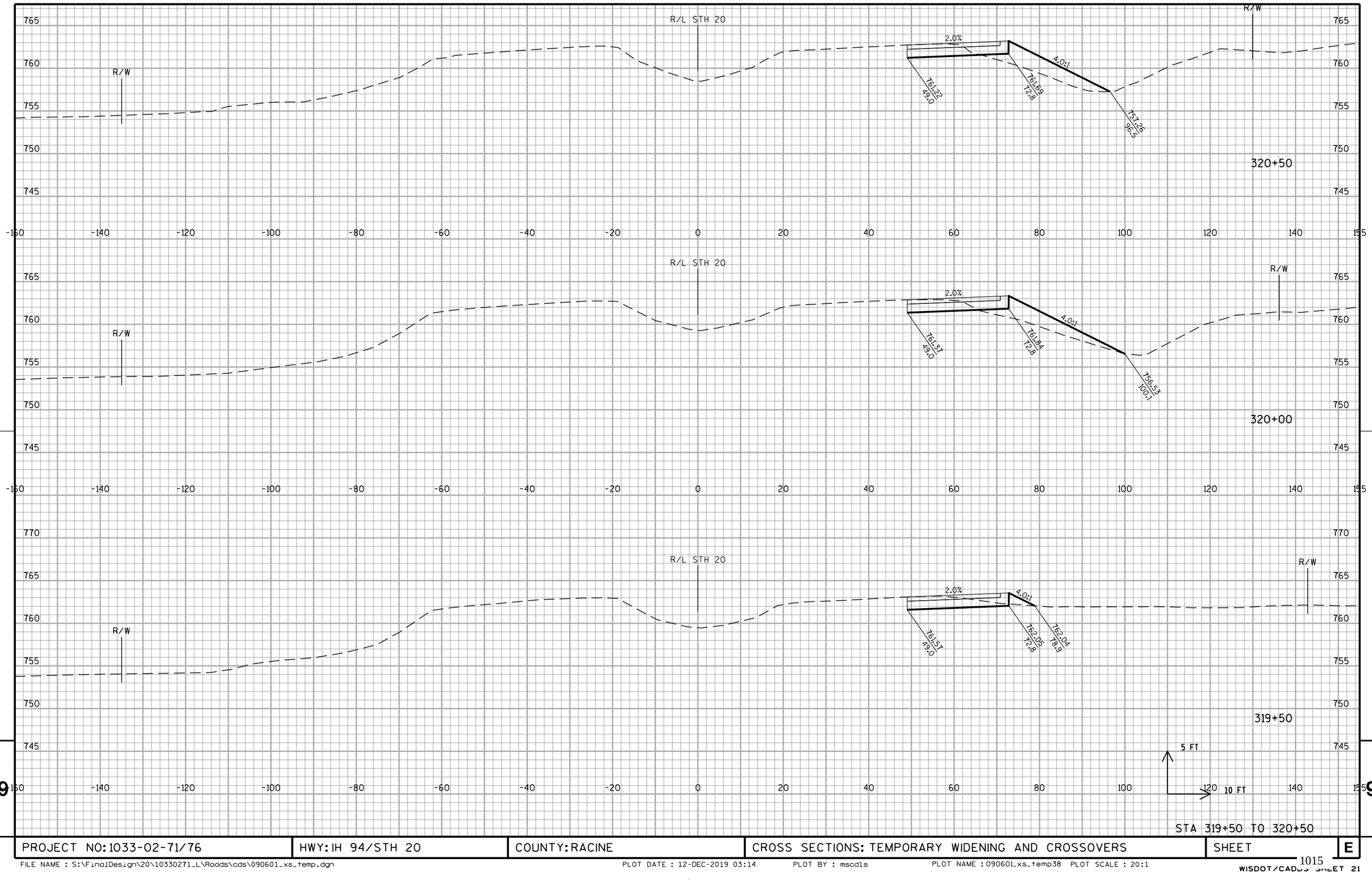
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

STA 318+50 TO 319+00

9

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:14 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp37 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

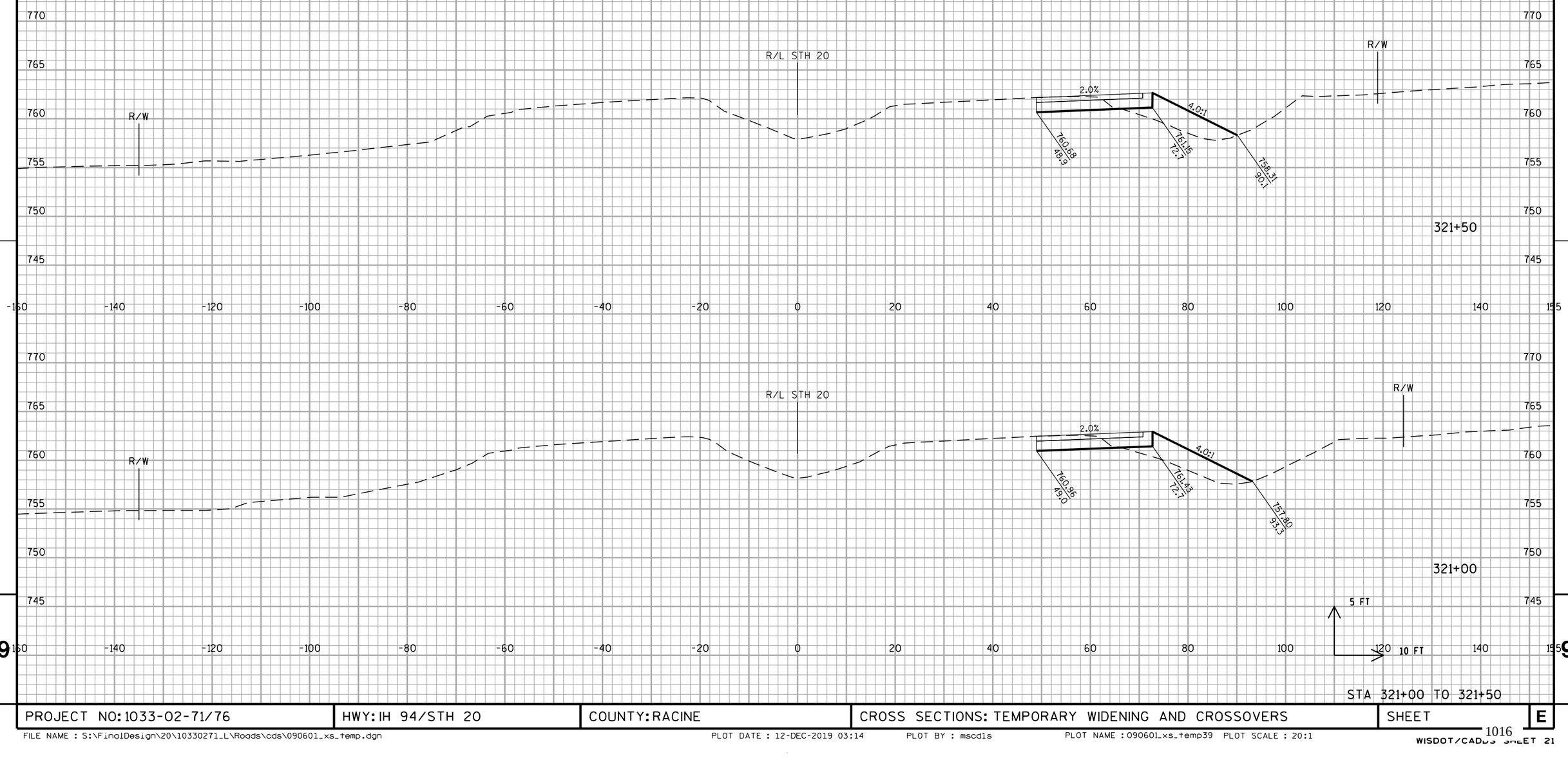


STA 319+50 TO 320+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

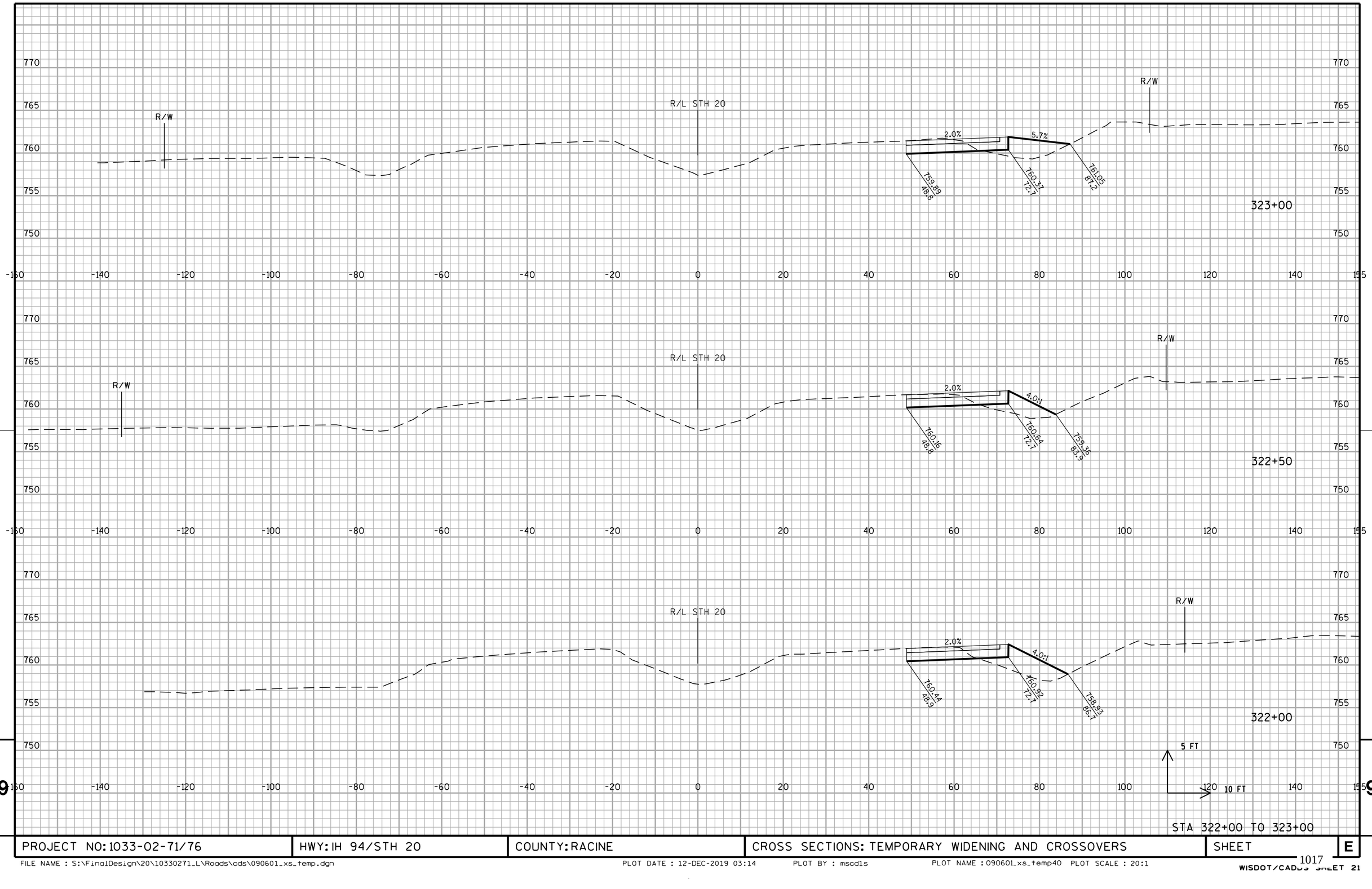
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WISDOT/CADDS SHEET 21



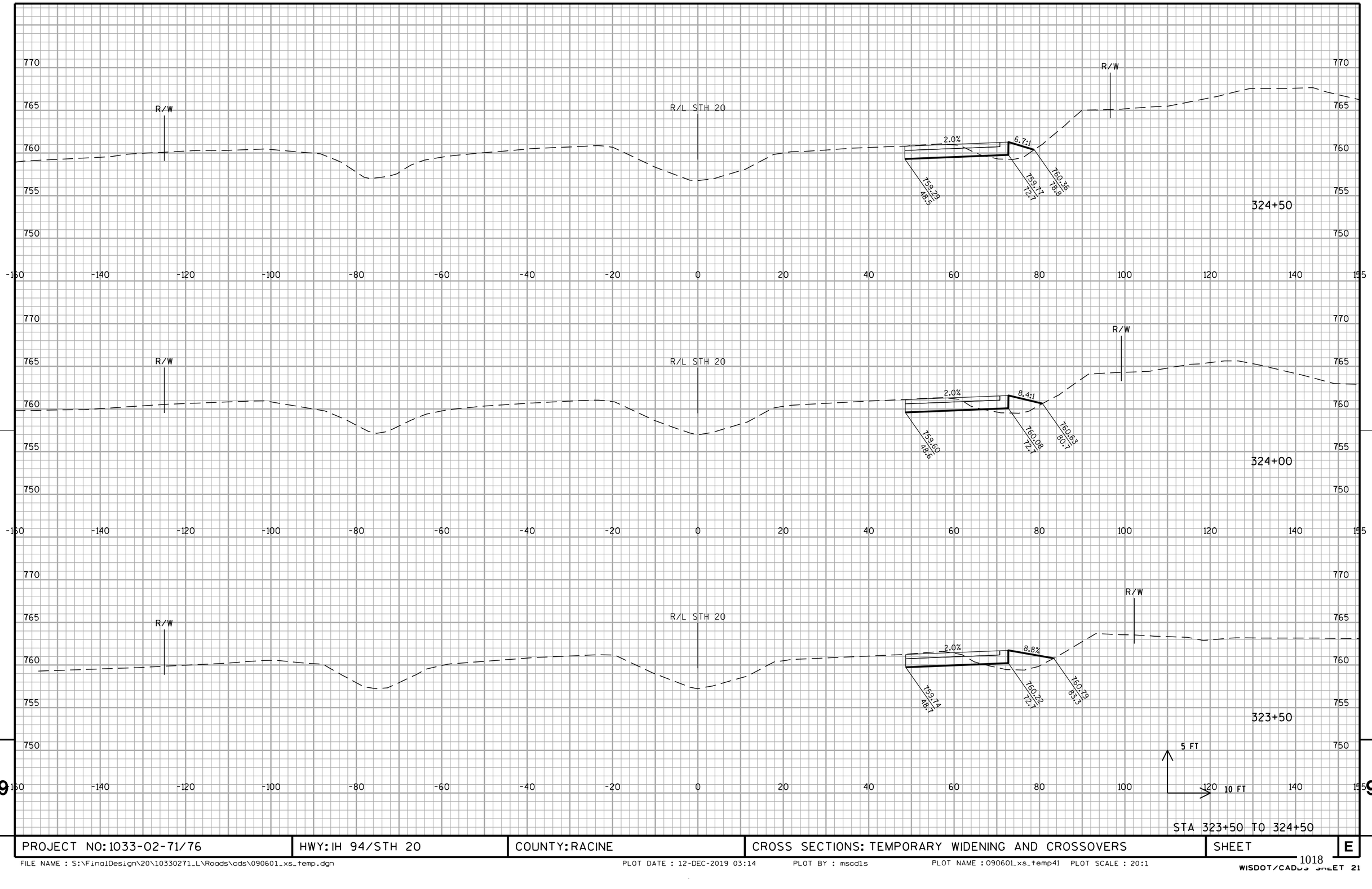
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:14 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp39 PLOT SCALE : 20:1



STA 322+00 TO 323+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

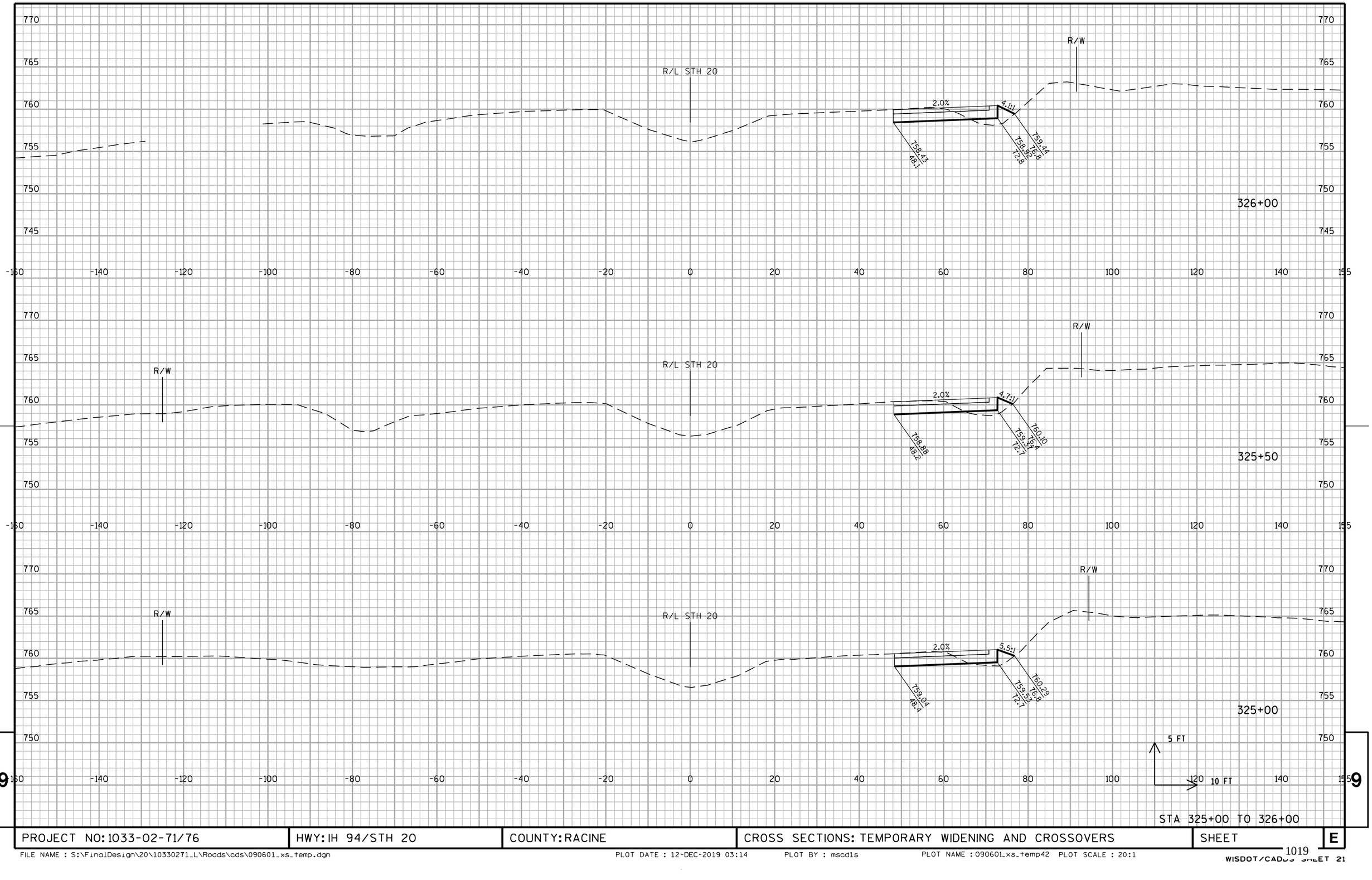


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PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

STA 323+50 TO 324+50

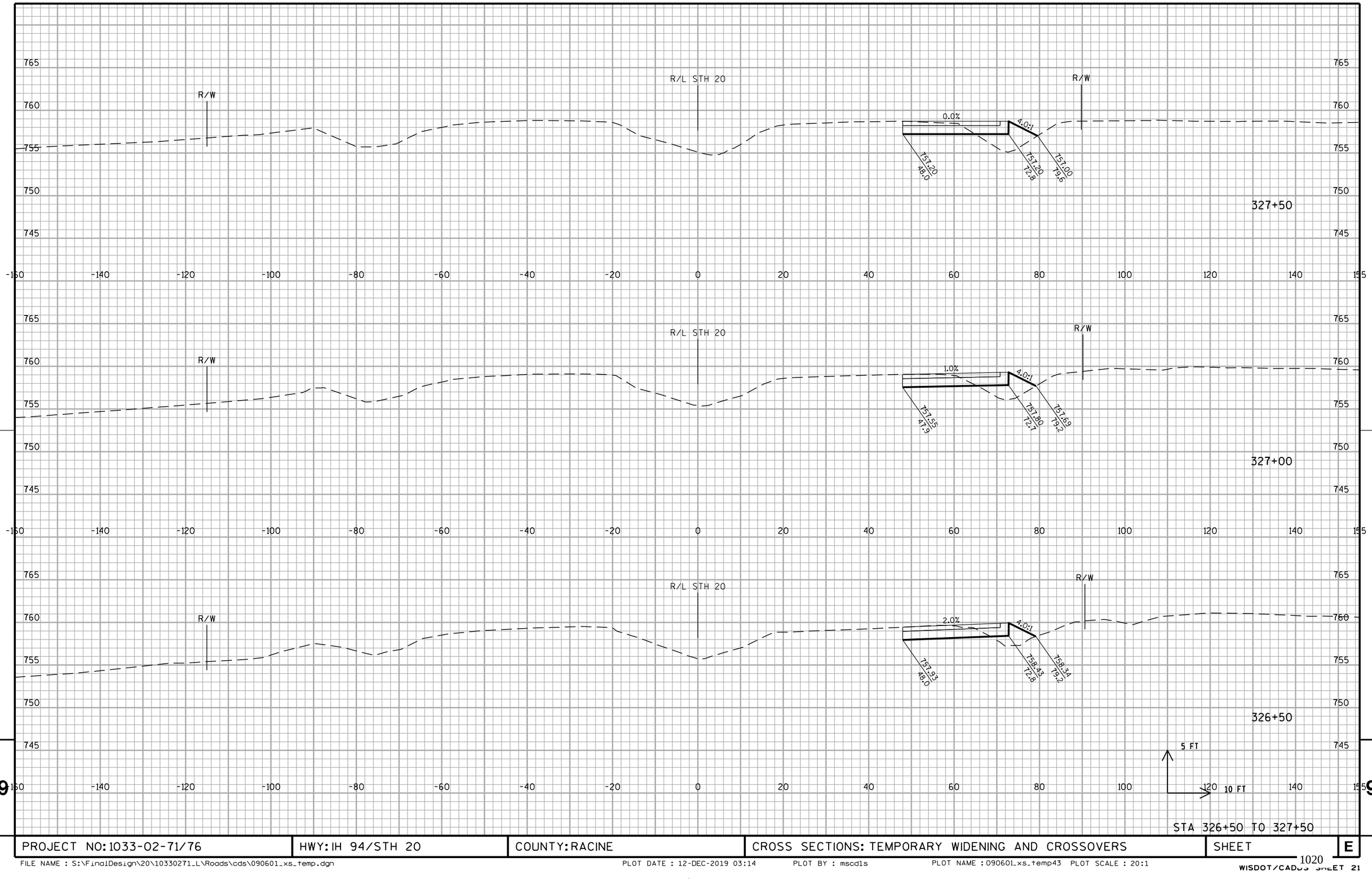
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STA 325+00 TO 326+00

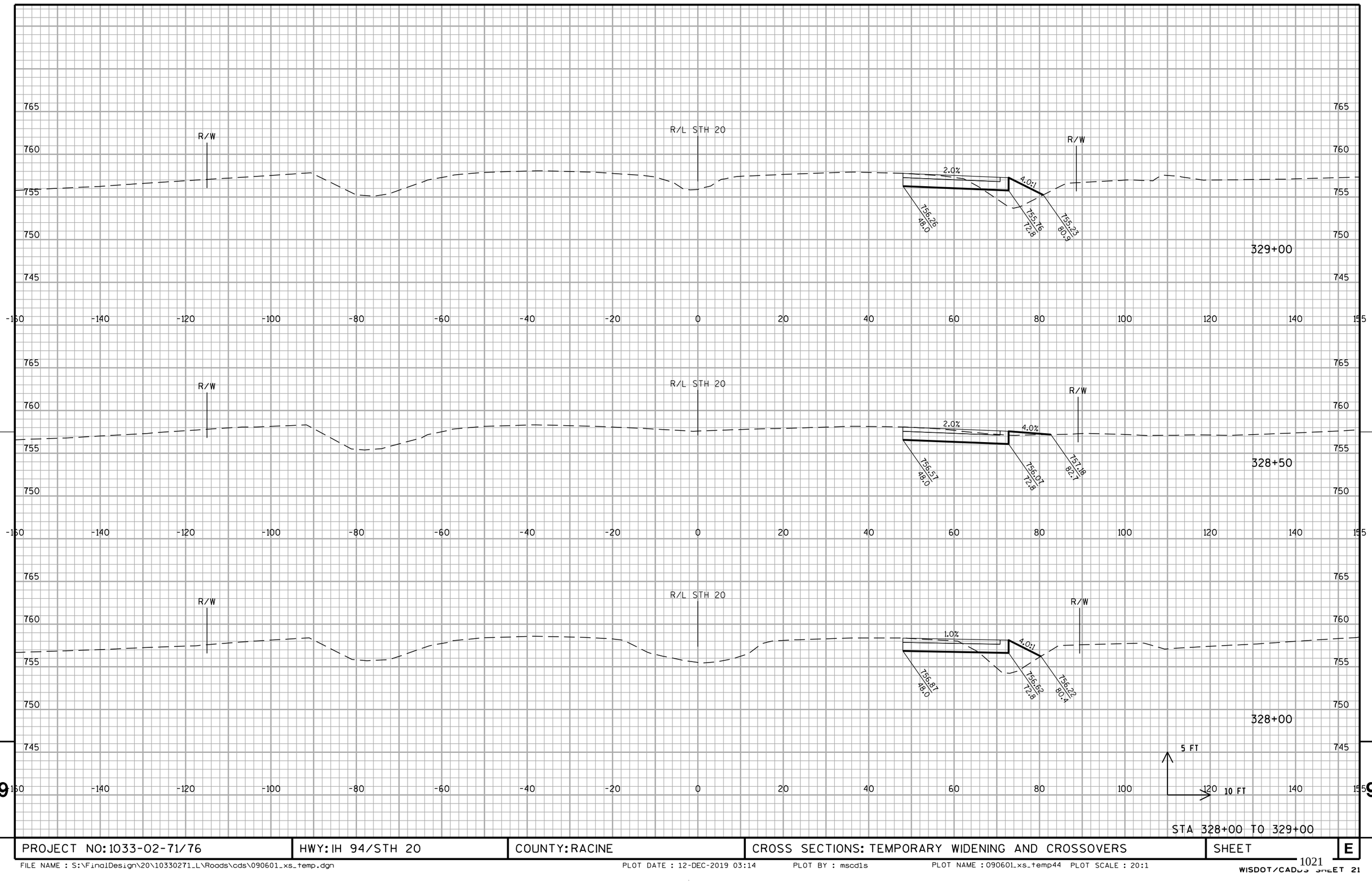
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:14 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp42 PLOT SCALE : 20:1



STA 326+50 TO 327+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

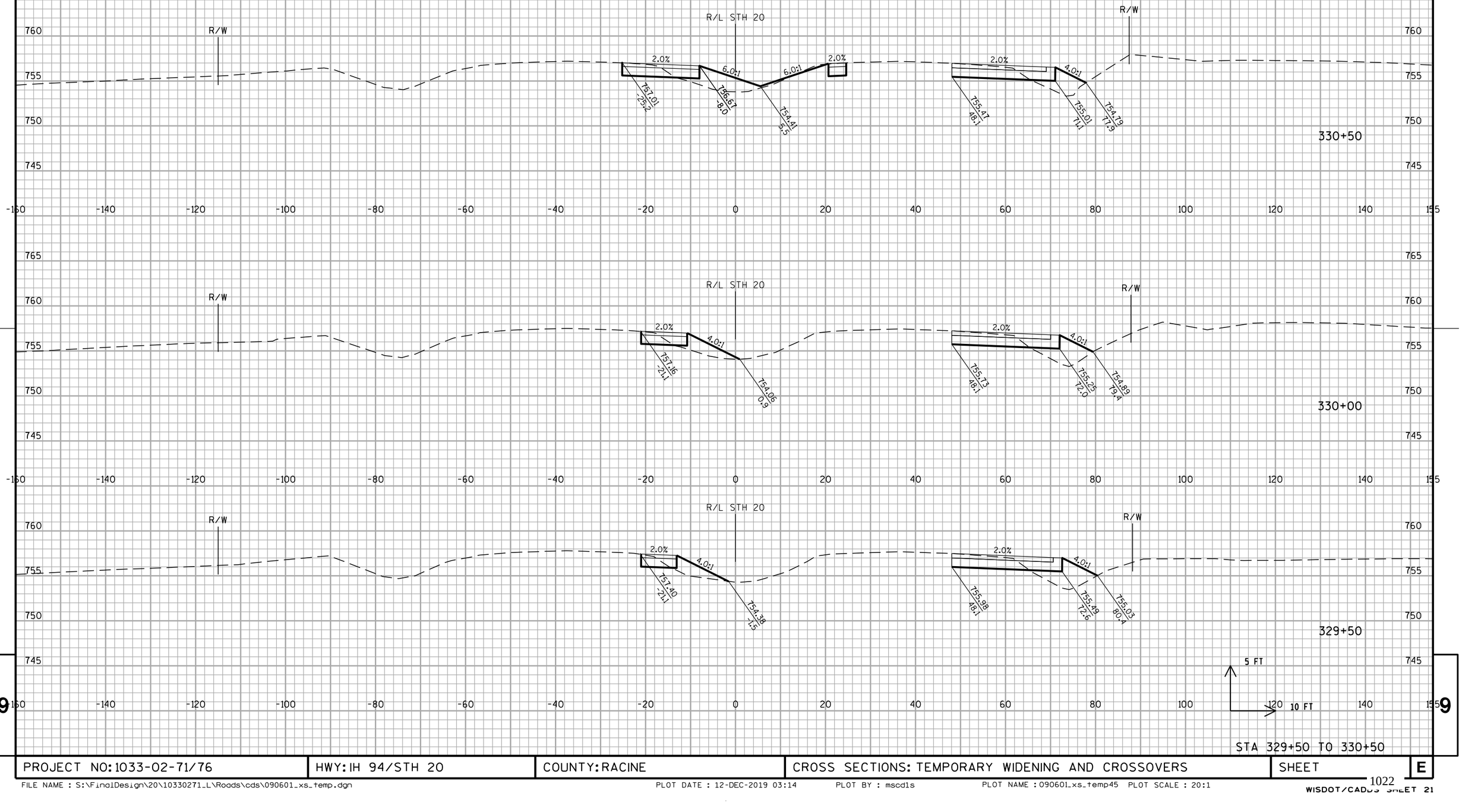


STA 328+00 TO 329+00

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

9 9

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:14 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp44 PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

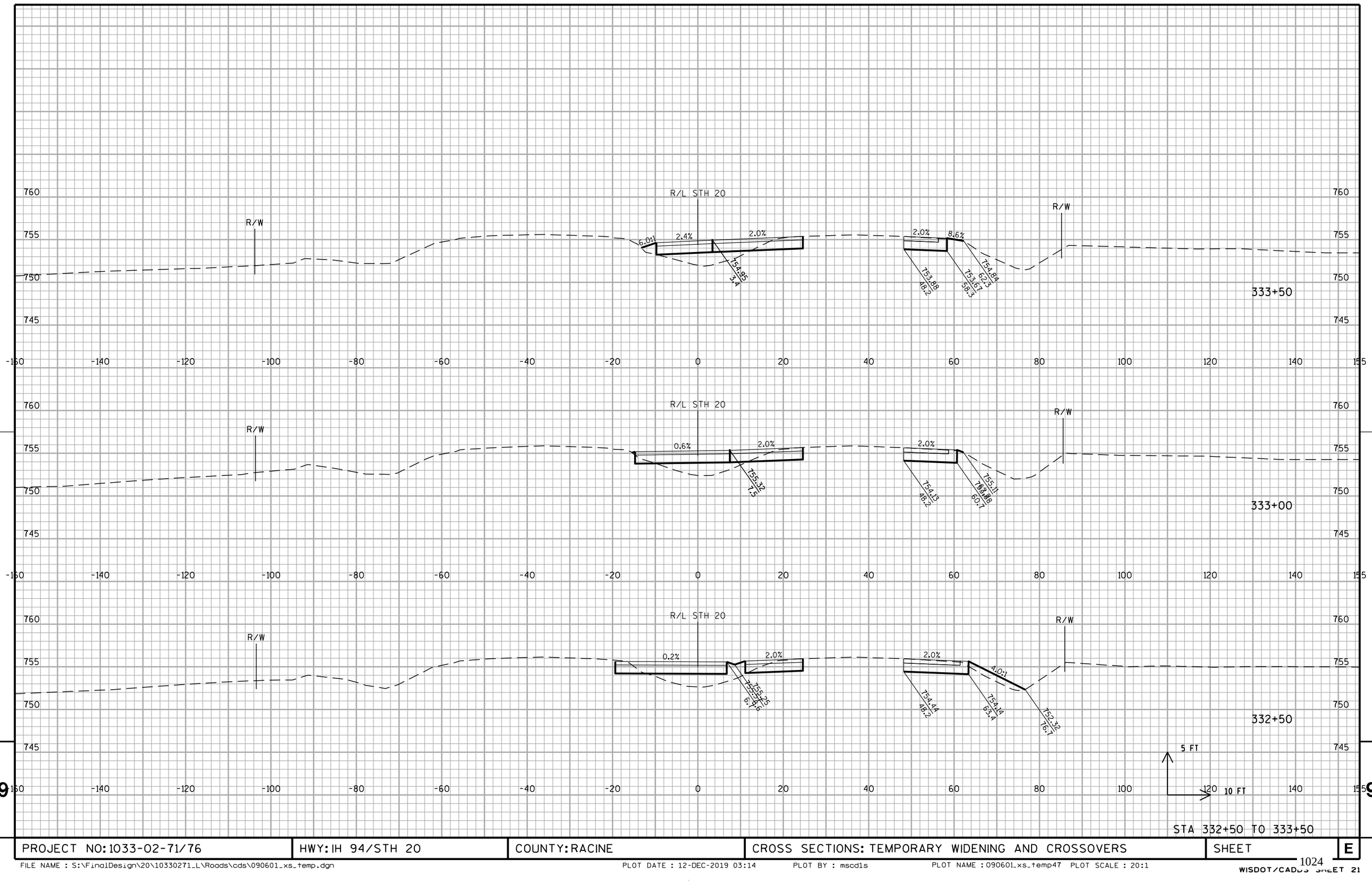
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WISDOT/CADDS SHEET 21

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:14 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp46 PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

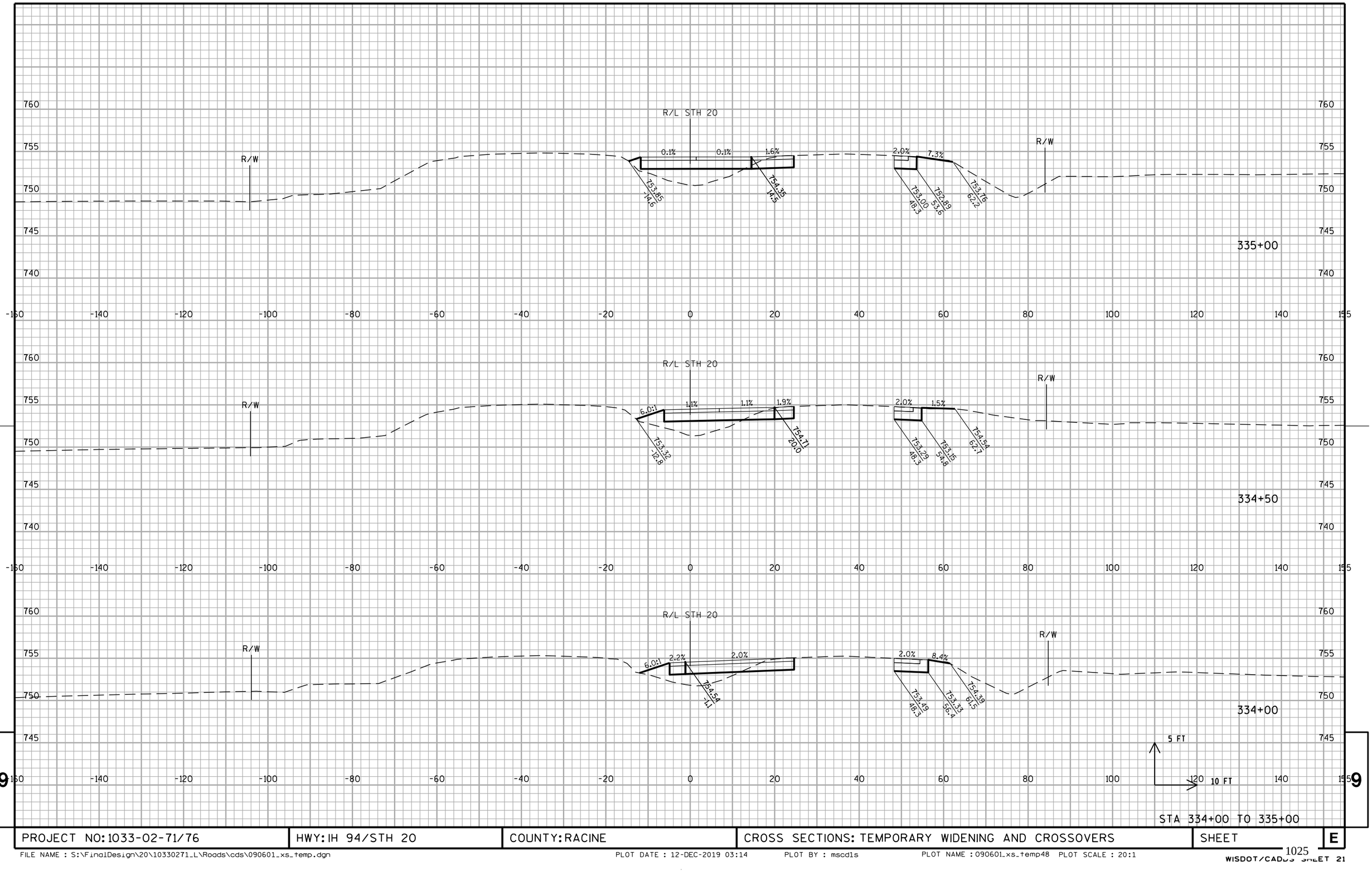


STA 332+50 TO 333+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:14 PLOT BY : mscdls PLOT NAME : 090601_xs_temp47 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

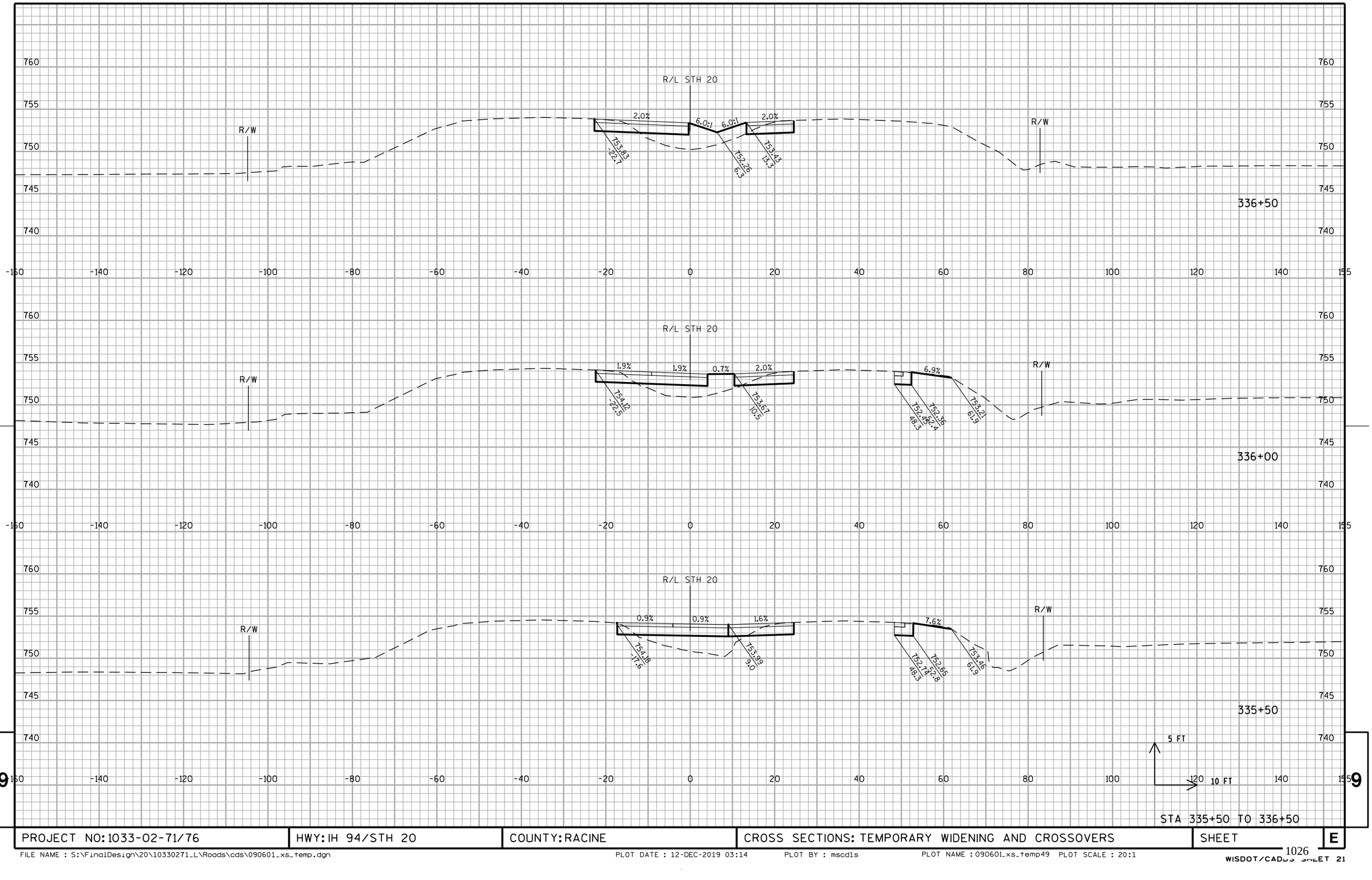
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

STA 334+00 TO 335+00

9

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:14 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp48 PLOT SCALE : 20:1

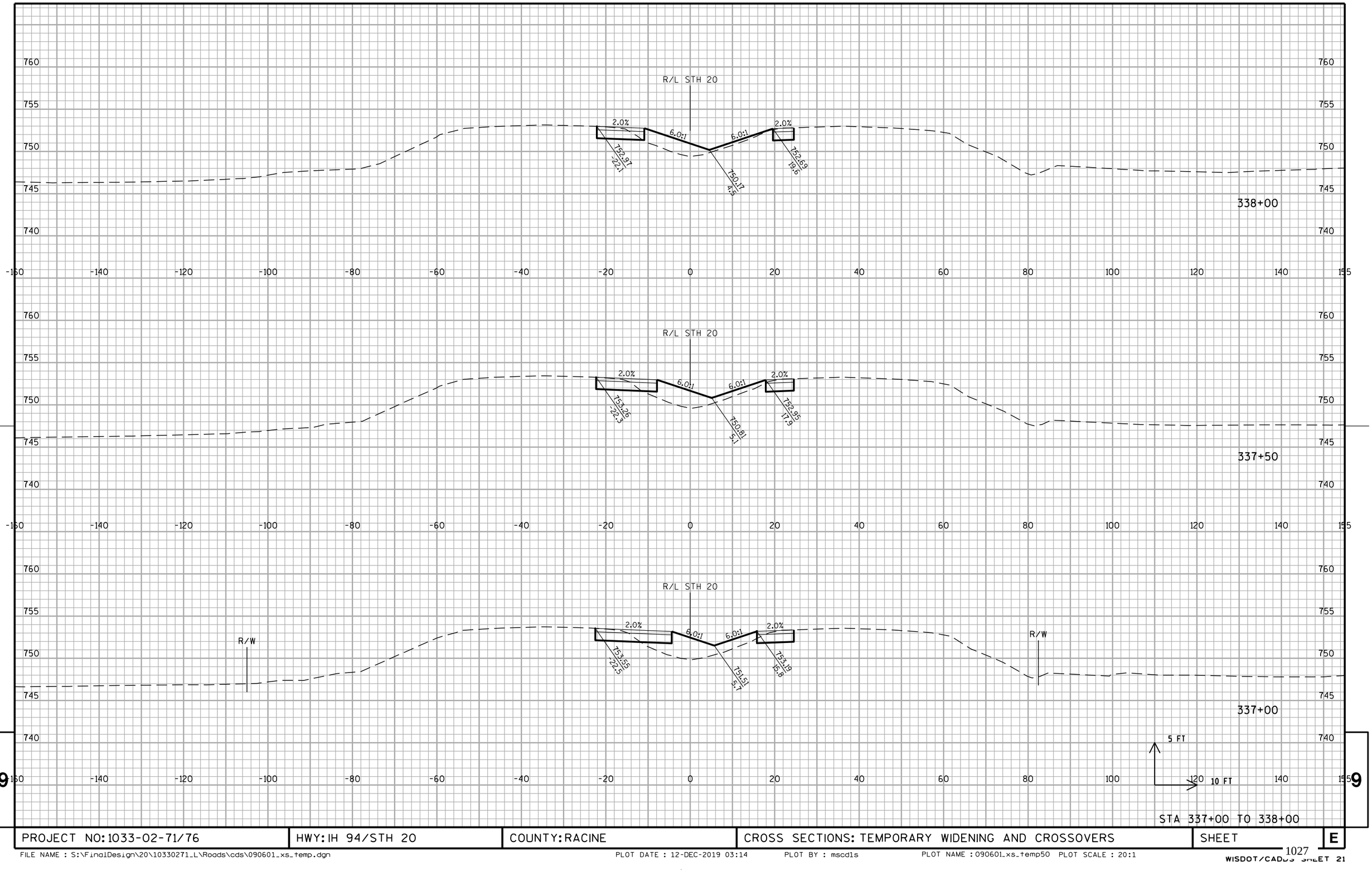
WISDOT/CADDS SHEET 21



STA 335+50 TO 336+50

PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

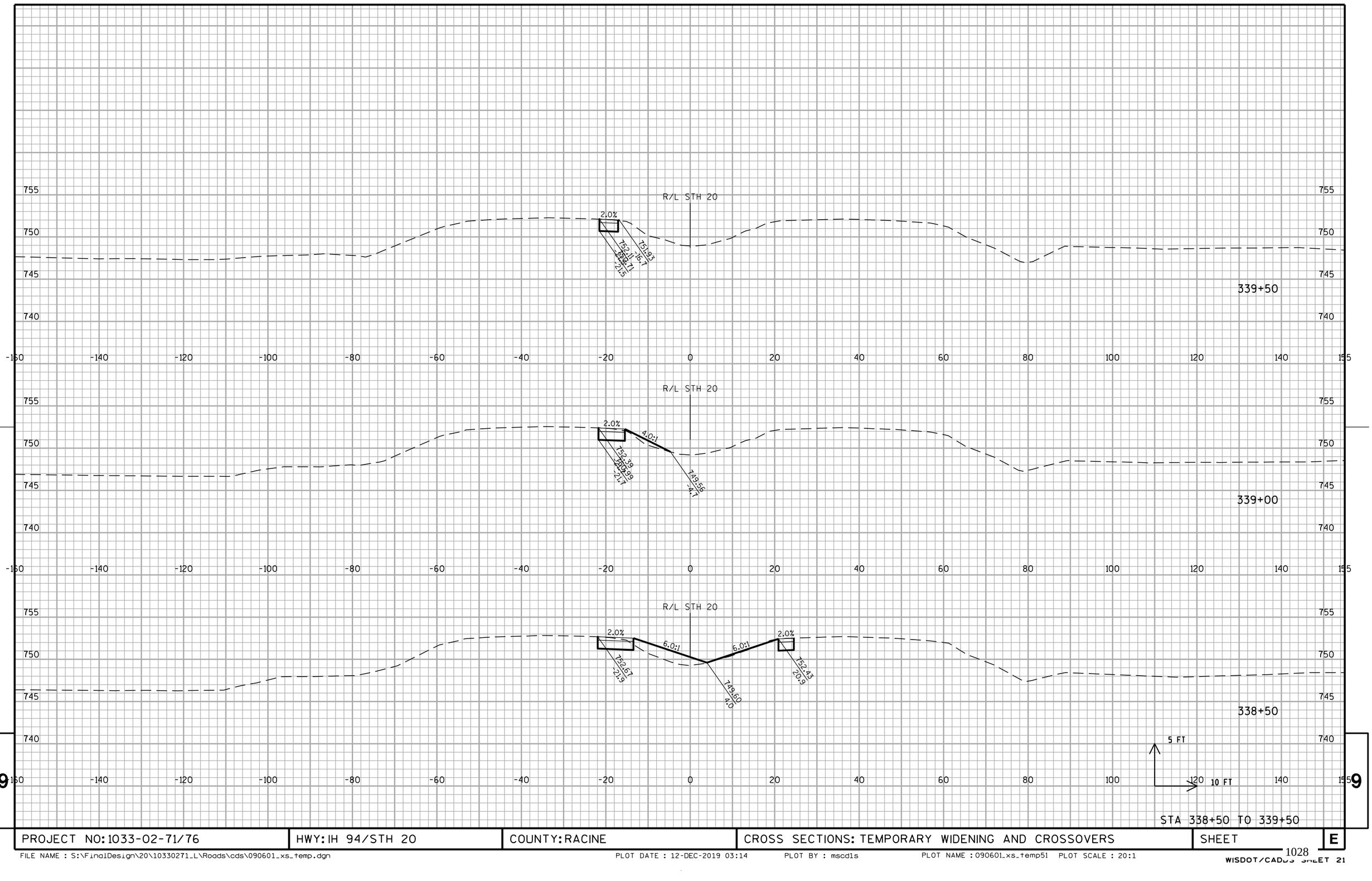
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STA 337+00 TO 338+00

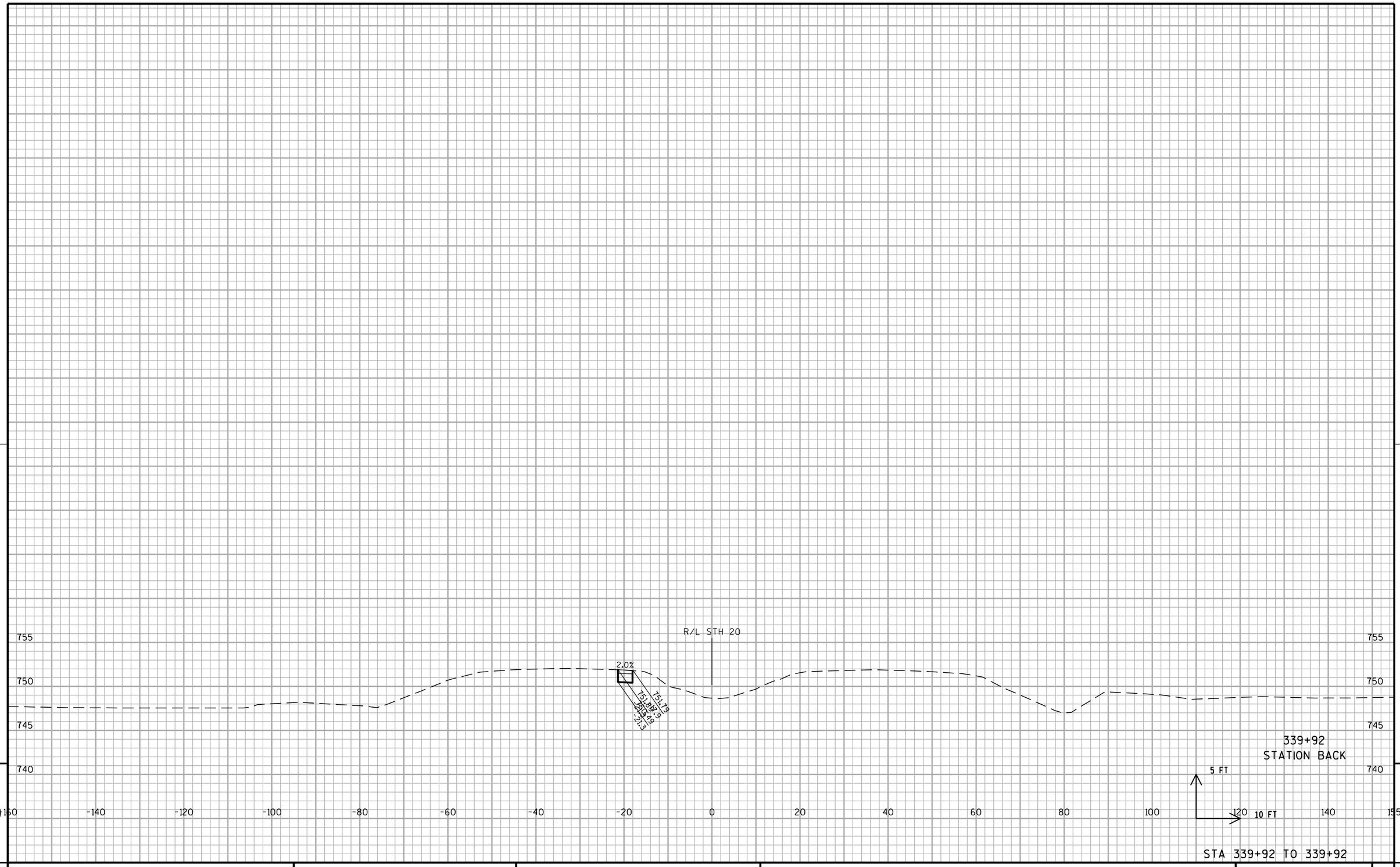
PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:14 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp50 PLOT SCALE : 20:1



PROJECT NO: 1033-02-71/76	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY WIDENING AND CROSSOVERS	SHEET	E

FILE NAME : S:\FinalDesign\20\10330271_L\Roads\cds\090601_xs_temp.dgn PLOT DATE : 12-DEC-2019 03:14 PLOT BY : mscd1s PLOT NAME : 090601_xs_temp51 PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21


R/L STH 20
2.0%
751.79
751.79
751.49
751.49
751.49

Wisconsin Department of Transportation

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