WIS

NOV 2015

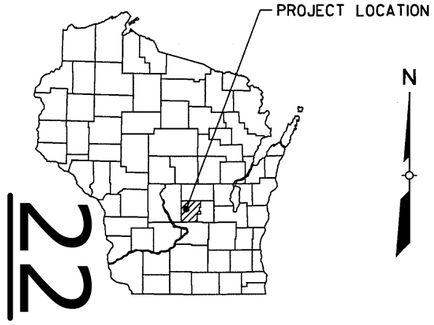
PROJECT ID: 1166-07-76
WITH: NA

COUNTY: MARQUETTE

ORDER OF SHEETS

Section No.	1	Title
Section No.		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 (Includes Erosion Control Plan)
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 = 464



22

DESIGN DESIGNATION

A.A.D.T. 2015	=	14,500
A.A.D.T. 2035	=	17,200
D.H.V. 2035	=	2356
D.D.	=	63/37
T.	=	28.4%
DESIGN SPEED	=	70 MPH
ESALS	=	10,628,800

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE (PL + 58.)
- 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

- OVERHEAD UTILITIES (OH)
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

PACKWAUKEE - COLOMA

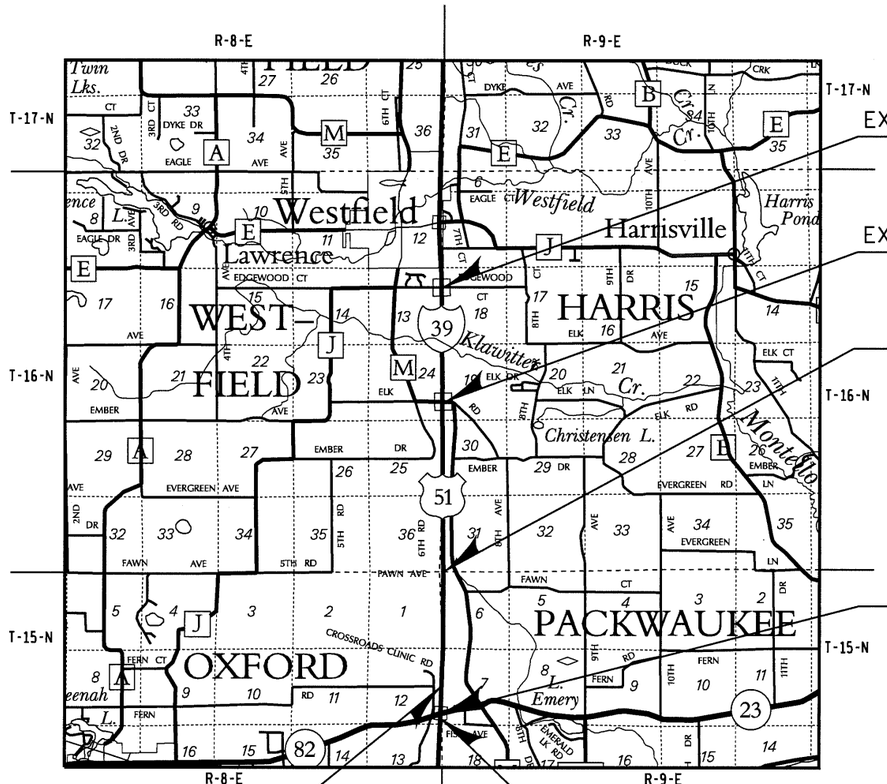
B-39-76, 10, 26, 27, 28, 29

IH 39

MARQUETTE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1166-07-76	WISC 2015579	1

STATE PROJECT NUMBER
1166-07-76



EXISTING STRUCTURE B-39-29

EXISTING STRUCTURE B-39-28

EXISTING STRUCTURE B-39-10

EXISTING STRUCTURE B-39-27

EXISTING STRUCTURE B-39-9 (TO BE REPLACED)
STRUCTURE B-39-76

EXISTING STRUCTURE B-39-26

BEGIN PROJECT 1166-07-76
STA. 638+00.00
Y=252529.846
X=431029.300

END PROJECT 1166-07-76
STA 663+00.00

LAYOUT SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.000 MI.

COORDINATES AND BEARINGS SHOWN ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MARQUETTE COUNTY, OFFICIAL , ELEVATIONS ON THE PLAN ARE REFERENCED TO NAVD 88.

ORIGINAL PLANS PREPARED BY

AECOM

WISCONSIN
RYAN N. BARZ
E-37634
AMHERST
WI
4/24/15
PROFESSIONAL ENGINEER

(Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	AECOM
Designer	AECOM
Project Manager	DAN HOLLOWAY
Regional Examiner	CHERYL SIMON
Regional Supervisor	MICHAEL KRETSCHMER
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 4/27/15 (Signature)

E

2

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER. DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND MULCHED.

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

RADII, ELEVATIONS, AND DIMENSIONS ARE GIVEN AT THE PAVEMENT EDGE, UNLESS OTHERWISE NOTED IN THE PLANS.

THE 6.5" HMA PAVEMENT TYPE E-10 SHALL CONSIST OF A 1.75-INCH UPPER LAYER (12.5 mm PG 64-28), A 2.25-INCH MIDDLE LAYER (19.0 mm PG 58-28) & A 2.5-INCH LOWER LAYER (19.0 mm PG 58-28).

THE 5.5" HMA PAVEMENT TYPE E-10 SHALL CONSIST OF A 2.5-INCH UPPER LAYER (12.5 mm PG 64-28) & A 3.0-INCH LOWER LAYER (19.0 mm PG 58-28).

THE 4.5" HMA PAVEMENT TYPE E-1 SHALL CONSIST OF A 2.0-INCH UPPER LAYER (12.5 mm PG 58-28) & A 2.5-INCH LOWER LAYER (19.0 mm PG 58-28).

THE 4.0" HMA PAVEMENT TYPE E-1 SHALL CONSIST OF A 1.75-INCH UPPER LAYER (12.5 mm PG 58-28) & A 2.25-INCH LOWER LAYER (19.0 mm PG 58-28).

THE 3.5" HMA PAVEMENT TYPE E-1 SHALL CONSIST OF A SINGLE LAYER (19.0 mm PG 58-28).

WISCONSIN DEPARTMENT
OF NATURAL RESOURCES (WDNR)

BOBBI JO FISCHER
427 E TOWER DR, SUITE 100
WAUTOMA, WI 54982
920-787-3015
email:bobbi.fischer@wisconsin.gov

RUNOFF COEFFICIENT TABLE

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

TOTAL PROJECT AREA = 90.4 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 38.6 ACRES

UTILITIES

ATC MANAGEMENT, INC.
(ELECTRIC)
CHRISTINE RAWSON
P.O. BOX 47
WAUKESHA, WI 53187
OFFICE 262-832-8732
MOBILE 262-422-0414
crawson@atcllc.com

ADAMS-COLUMBIA ELECTRIC COOPERATIVE
(ELECTRIC)
ED NEVAR
W 6290 HWY 33
P.O. BOX 216
PARDEEVILLE, WI 53954
OFFICE 800-831-8629 (EX 333)
MOBILE 608-547-1081
enevar@acecwi.com

PIONEER POWER AND LIGHT COMPANY
(ELECTRIC)
DENNIS DAHLKE
104 NORTH MAIN STREET
WESTFIELD, WI 53964
OFFICE 608-296-2149
MOBILE 608-369-2421
pioneerpowerquote@gmail.com

WE ENERGIES
(GAS)
RYAN MIENTKE
1921 8TH STREET S
WISCONSIN RAPIDS, WI 54494
OFFICE 715-421-7249
MOBILE 715-421-9293
ryan.mientke@we-energies.com

MARQUETTE ADAMS TELEPHONE COOP INC
(COMMUNICATION LINE)
JASON SENGBUSCH
113 N OXFORD STREET
OXFORD, WI 53952
OFFICE 608-586-7070
jsengbusch@maadtelco.com

FRONTIER COMMUNICATIONS OF WI LLC
(COMMUNICATION LINE)
JERRY MOORE
2222 WEST WISCONSIN STREET
PORTAGE, WI 53901
OFFICE 608-742-9507
MOBILE 608-346-0353
jerald.r.moore@ftr.com

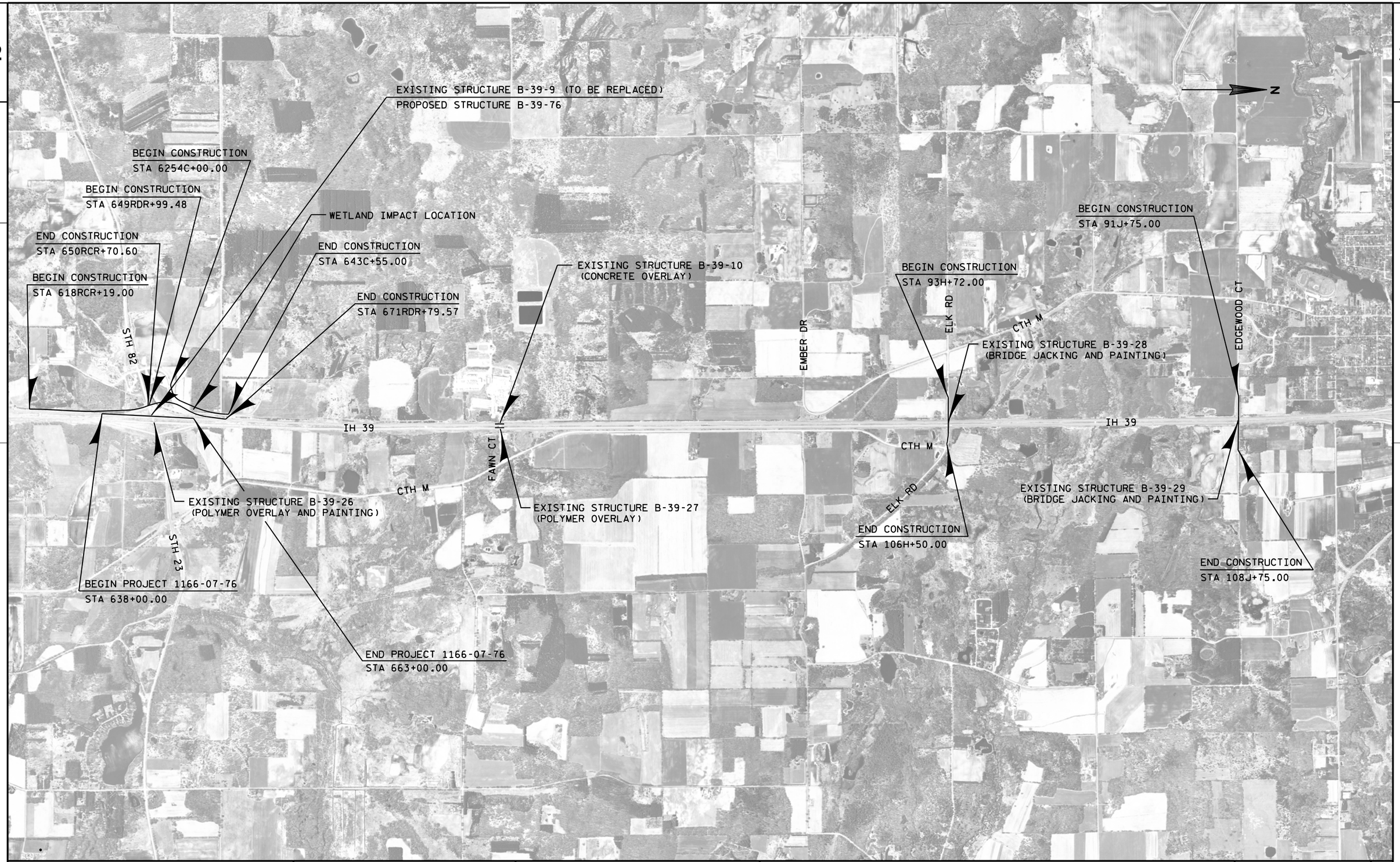
WISCONSIN DOT RWIS PROGRAM
(COMMUNICATION TOWER)
MICHAEL J. ADAMS
P.O. BOX 7986
MADISON, WI 53707
OFFICE 608-266-5004
michael.adams@dot.wi.gov

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

ORDER OF DETAIL SHEETS

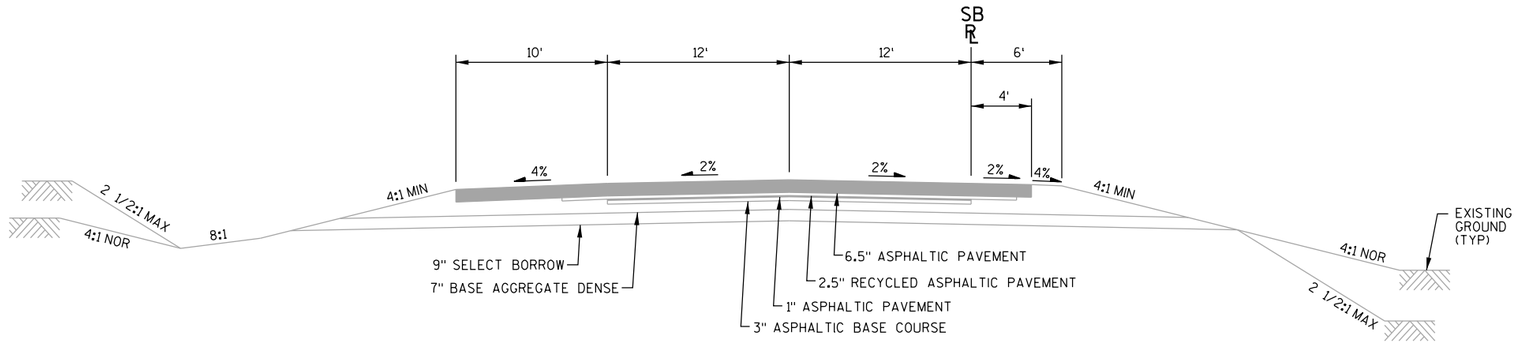
GENERAL NOTES & UTILITES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PAVING DETAILS
PAVEMENT LAYOUT
EROSION CONTROL
PERMANENT SIGNING AND PAVEMENT MARKING
TRAFFIC CONTROL
ALTERNATE ROUTE
DETOUR ROUTE
ALIGNMENT DIAGRAM

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WISDOT/CADDS SHEET 42



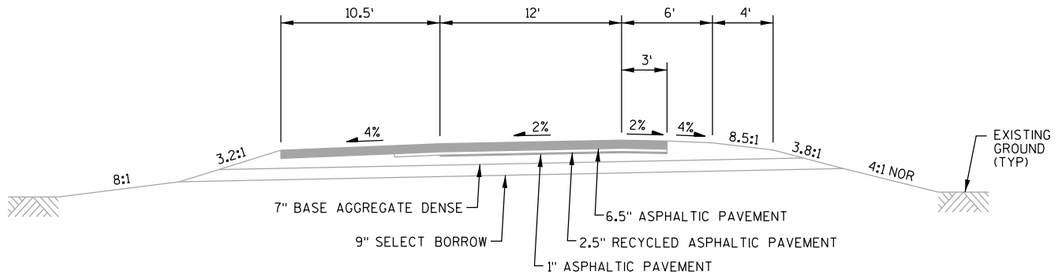
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WISDOT/CADDS SHEET 42



TYPICAL EXISTING SECTION - SB IH 39

STA 638SB+00 - STA 651SB+02
STA 652SB+37 - STA 663SB+00

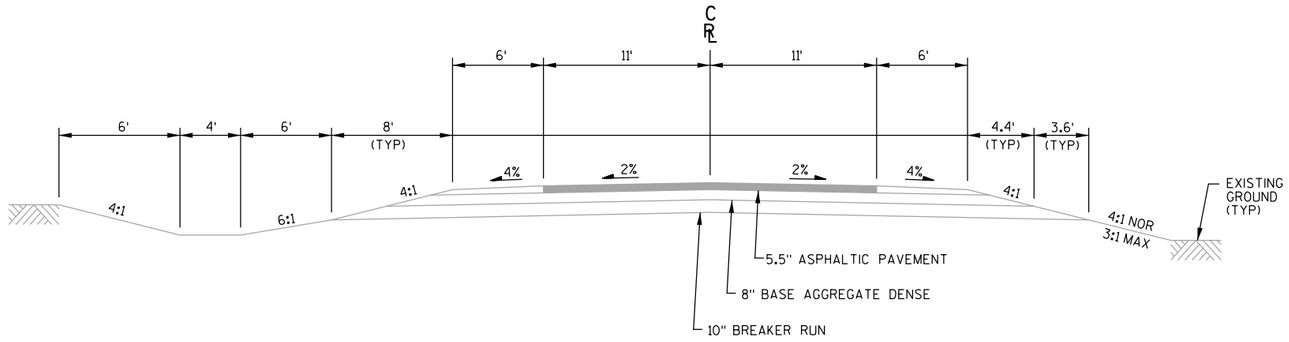


TYPICAL EXISTING SECTION - STH 82/23 RAMPS

STA 618RCR+19.00 - STA 650RCR+70.60
STA 649RDR+99.48 - STA 671RDR+79.57

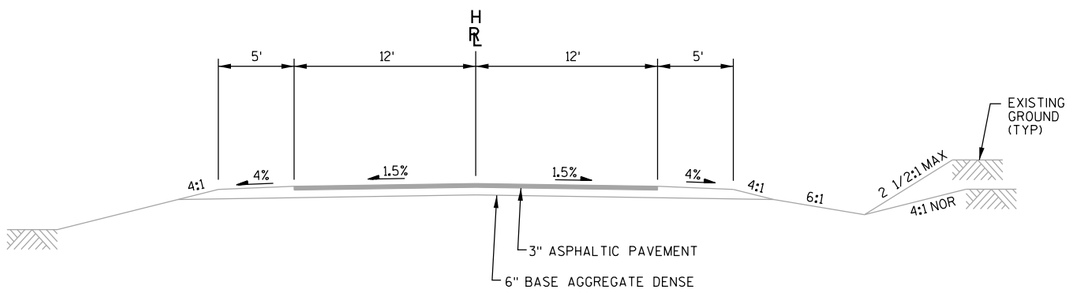
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WISDOT/CADDS SHEET 42



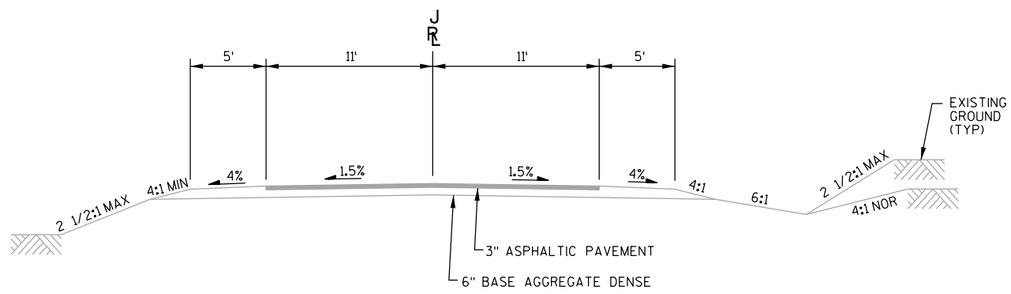
TYPICAL EXISTING SECTION - CROSSROADS CLINIC ROAD

STA 625C+00 - STA 643C+55



TYPICAL EXISTING SECTION - CTH M

STA 93H+72 - STA 106H+50

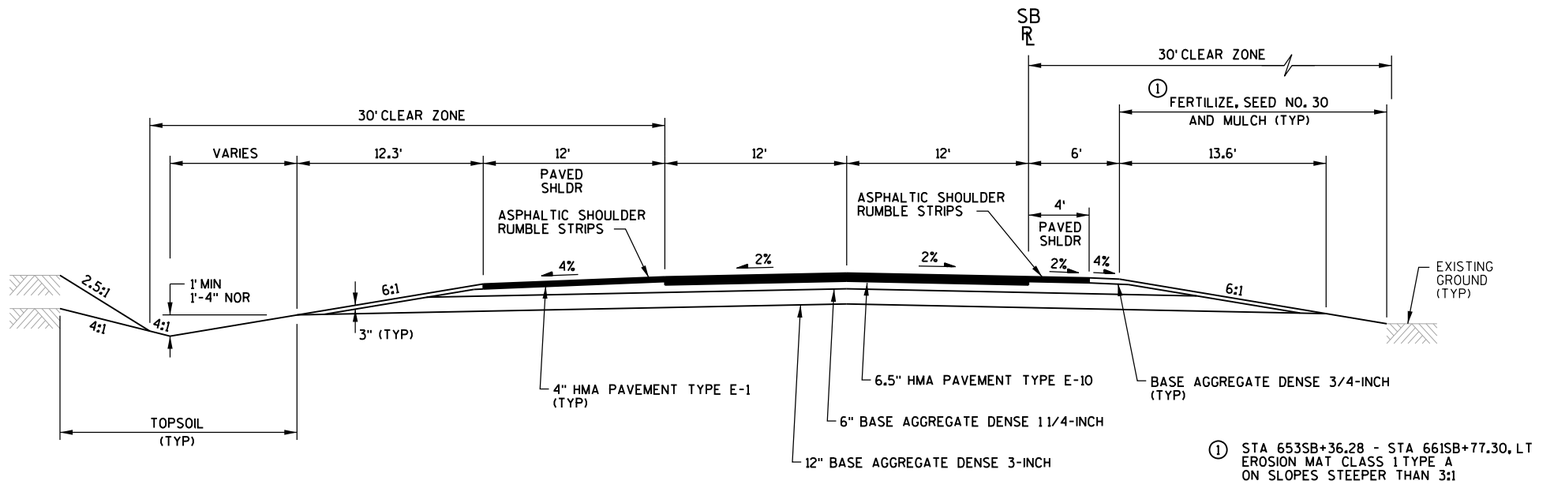


TYPICAL EXISTING SECTION - EDGEWOOD COURT

STA 91J+75 - STA 108J+75

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TYPICAL SECTIONS	SHEET 5	E

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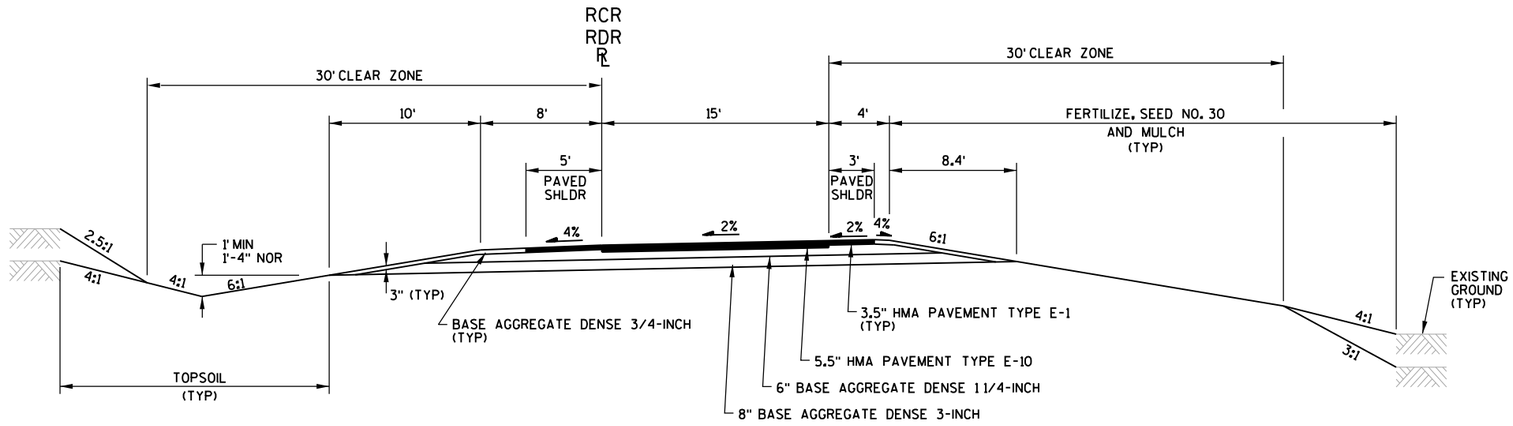


TYPICAL FINISHED SECTION - SB IH 39

STA 638SB+00.00 - STA 650SB+71.36
STA 652SB+66.00 - STA 663SB+00.00

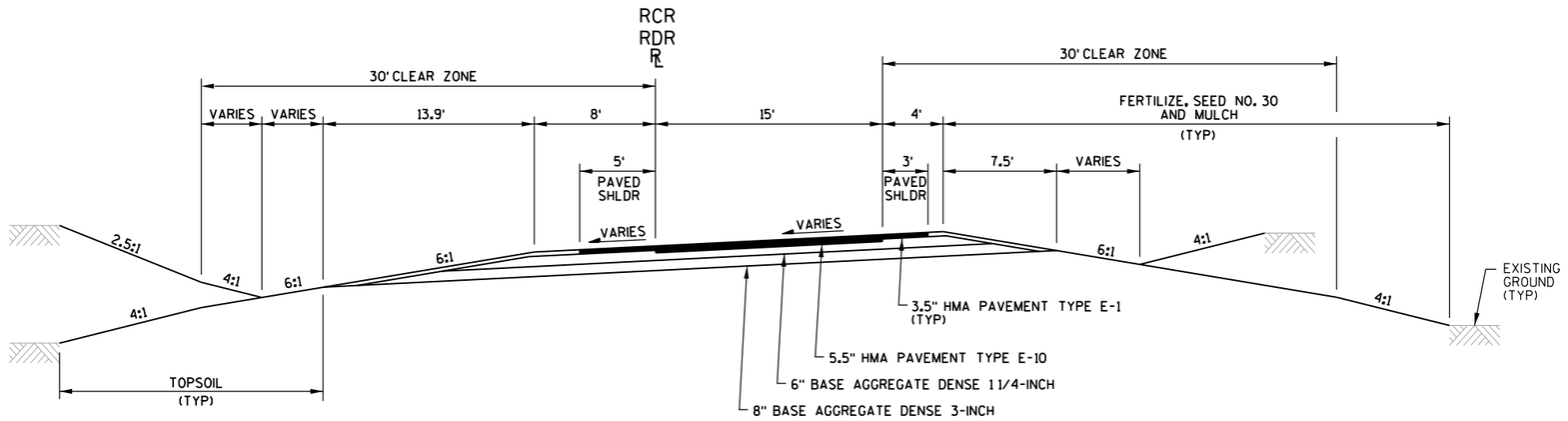
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WISDOT/CADDS SHEET 42



TYPICAL FINISHED SECTION - STH 82/23 RAMPS

STA 618RCR+19.00 - STA 633RCR+56.00
STA 636RCR+12.00 - STA 644RCR+78.00
STA 650RCR+04.00 - STA 650RCR+70.60
STA 649RDR+99.48 - STA 650RDR+61.00
STA 660RDR+18.00 - STA 660RDR+73.00
STA 667RDR+03.00 - STA 671RDR+79.57



TYPICAL SUPERELEVATED FINISHED SECTION - STH 82/23 RAMPS

STA 633RCR+56.00 - STA 636RCR+12.00
STA 644RCR+78.00 - STA 650RCR+04.00
STA 650RDR+61.00 - STA 660RDR+18.00
STA 660RDR+73.00 - STA 667RDR+03.00

C RAMP

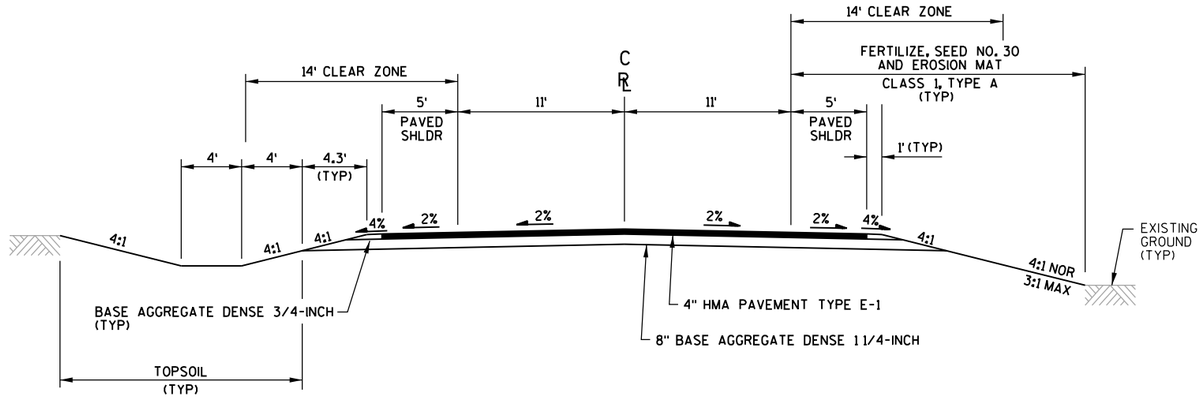
SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
633RCR+56		2.0
634RCR+18		4.3
635RCR+50		4.3
636RCR+12		2.0

SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
644RCR+78		2.0
645RCR+50		5.0
649RCR+32		5.0
650RCR+04		2.0

D RAMP

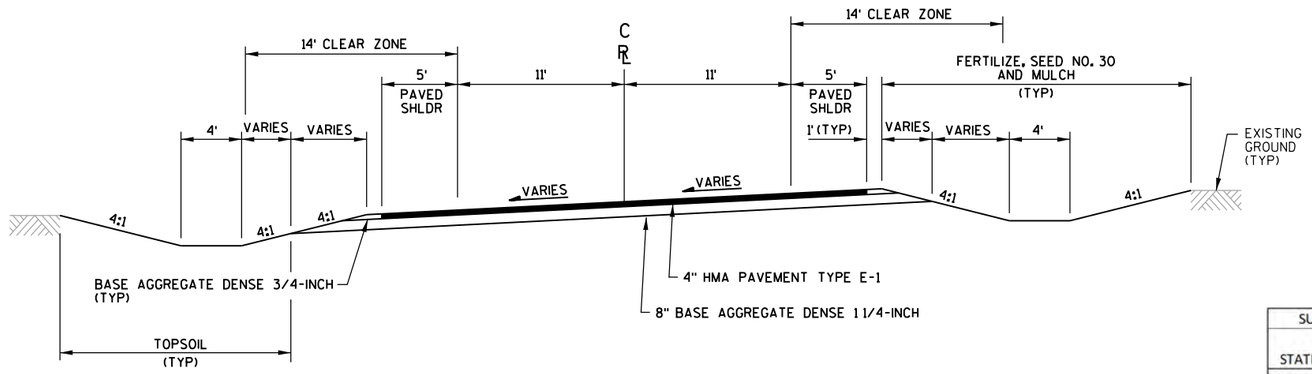
SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
650RDR+61		1.0
651RDR+02		0.0
651RDR+43		-2.0
652RDR+05		-5.0
658RDR+74		-5.0
659RDR+36		-2.0
659RDR+77		0.0
660RDR+18		2.0

SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
660RDR+73		2.0
661RDR+80		6.0
665RDR+96		6.0
667RDR+03		2.0



TYPICAL FINISHED SECTION - CROSSROADS CLINIC ROAD

STA 625C+00.00 - STA 624C+91.00
STA 631C+13.00 - STA 633C+04.00
STA 643C+53.00 - STA 643C+55.00

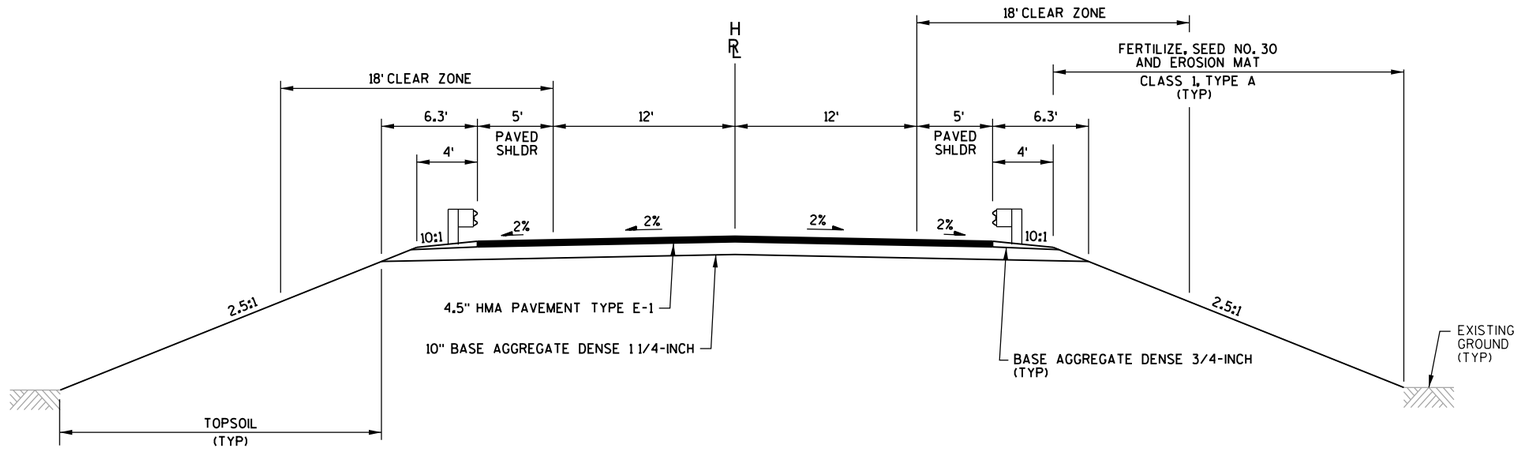


TYPICAL SUPERELEVATED FINISHED SECTION - CROSSROADS CLINIC ROAD

STA 624C+91.00 - STA 631C+13.00
STA 633C+04.00 - STA 643C+53.00

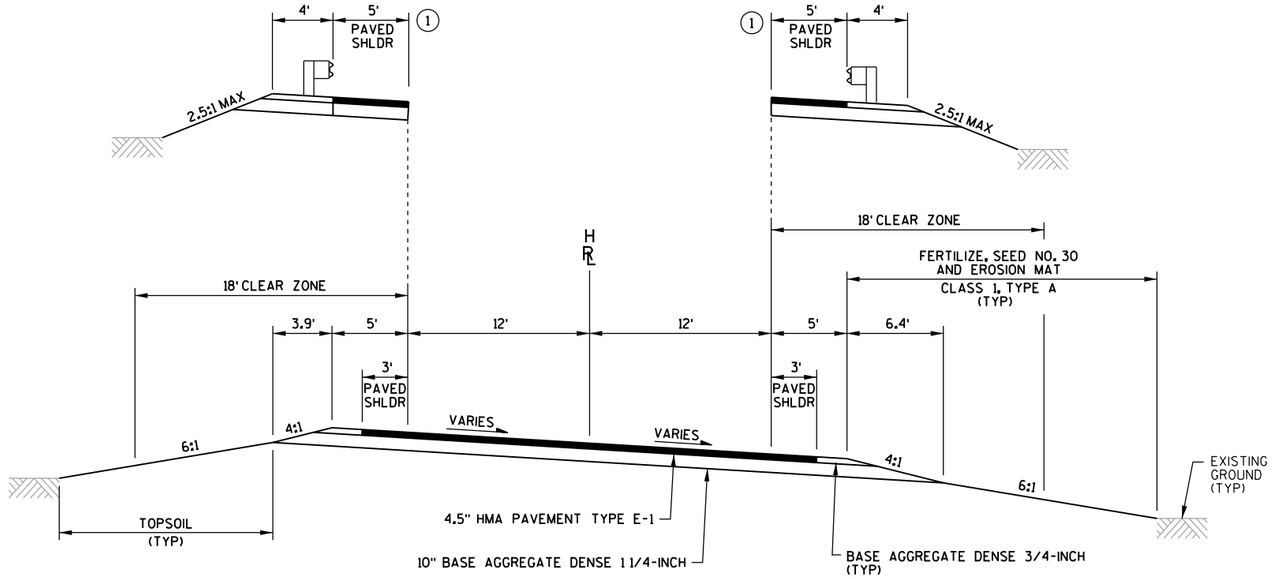
SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
624C+91	-2.0	-2.0
625C+30	-2.0	0.0
625C+69	-2.0	2.0
626C+42	-5.8	5.8
629C+62	-5.8	5.8
630C+35	-2.0	2.0
630C+74	-2.0	0.0
631C+13	-2.0	-2.0

SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
633C+04	-2.0	-2.0
633C+42	-2.0	0.0
633C+80	-2.0	2.0
633C+88	-2.4	2.4
642C+69	-2.4	2.4
642C+77	-2.0	2.0
643C+15	-2.0	0.0
643C+53	-2.0	-2.0



TYPICAL FINISHED SECTION - CTH M

STA 92H+72 - STA 101H+76

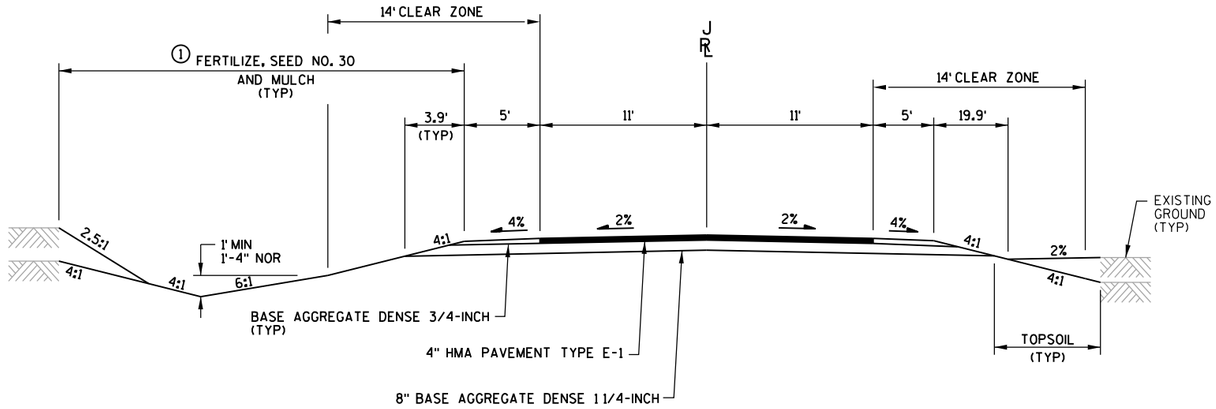


SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
101H+76	-2.0	-2.0
102H+27	0.0	-2.0
102H+78	2.0	-2.0
103H+80	6.0	-6.0
106H+50	6.0	-6.0

TYPICAL SUPERELEVATED FINISHED SECTION - CTH M

STA 105H+50.45 - STA 106H+50.00, LT
STA 104H+30.52 - STA 106H+50.00, RT

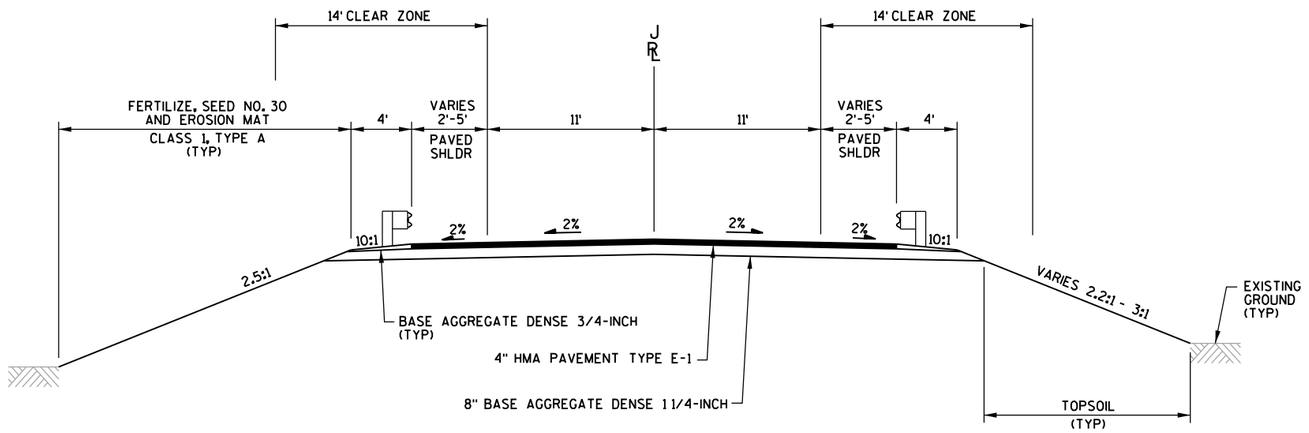
① STA 101H+76.00 - STA 105H+50.45, LT
STA 101H+76.00 - STA 104H+30.52, RT



① STA 94J+00 - STA 94J+74, RT
STA 104J+48.30 - STA 105J+88, LT
STA 104J+48.30 - STA 105J+98, RT
EROSION MAT CLASS 1 TYPE A
ON SLOPES STEEPER THAN 3:1

TYPICAL FINISHED SECTION - EDGEWOOD COURT

STA 91J+75.00 - STA 94J+74.00
STA 104J+48.30 - STA 108J+75.00

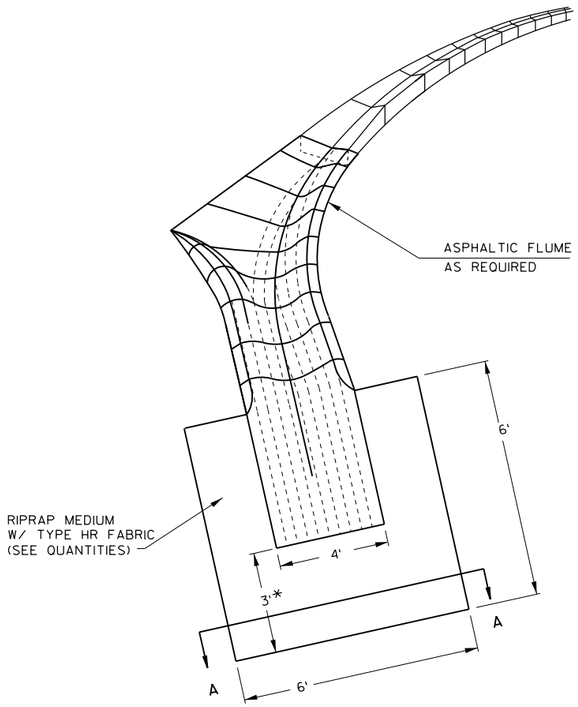


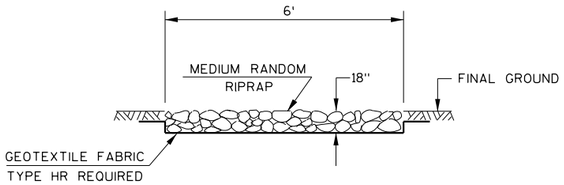
TYPICAL FINISHED SECTION - EDGEWOOD COURT

STA 94J+74 - STA 104J+48.30

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TYPICAL SECTIONS	SHEET 10	E

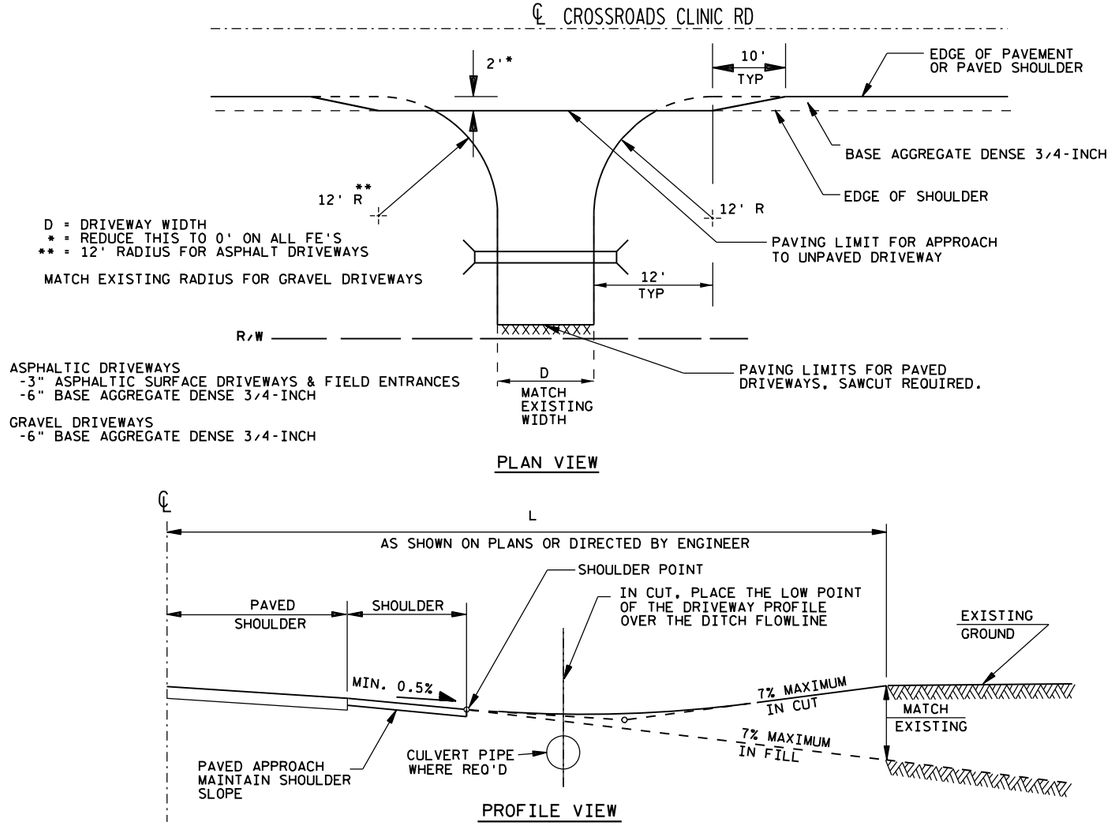
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WISDOT/CADDS SHEET 42





SECTION A-A

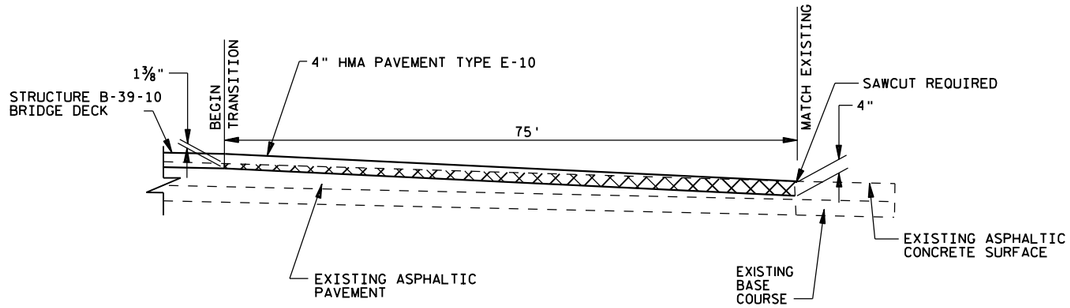
RIPRAP MEDIUM AT ASPHALTIC FLUME DETAIL



PLAN VIEW

PROFILE VIEW

RURAL DRIVEWAY

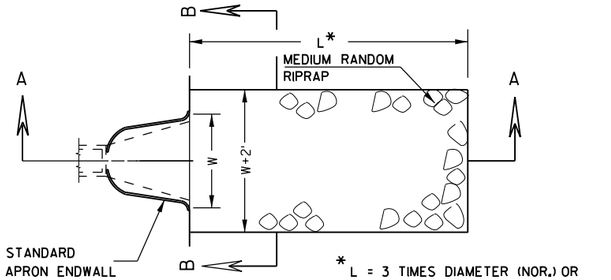


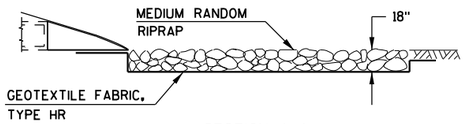
REMOVING ASPHALTIC SURFACE, BUTT JOINT

BUTT JOINTS
STATION
746SB+07 - 745SB+32
747SB+09 - 747SB+84

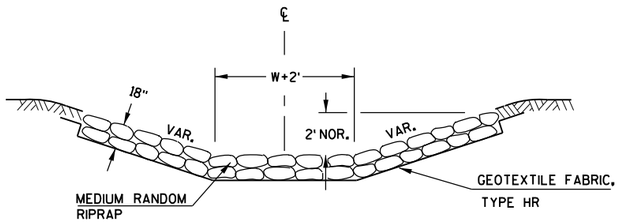
BUTT JOINT TRANSITION

PROFILE VIEW





SECTION A-A

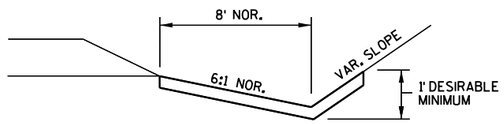


SECTION B-B

MEDIUM RANDOM RIPRAP AND GEOTEXTILE FABRIC

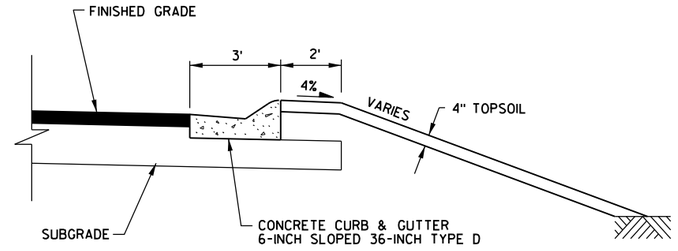
DETAIL AT APRON ENDWALLS

NTS



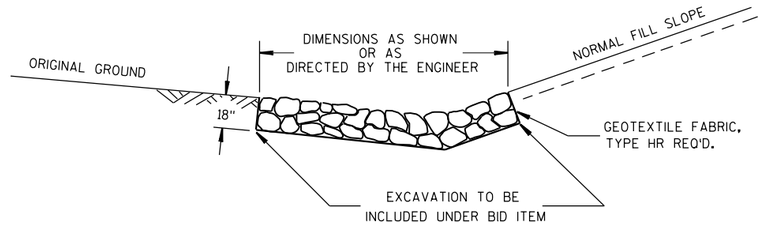
EROSION MAT DETAIL FOR DITCHES

NTS

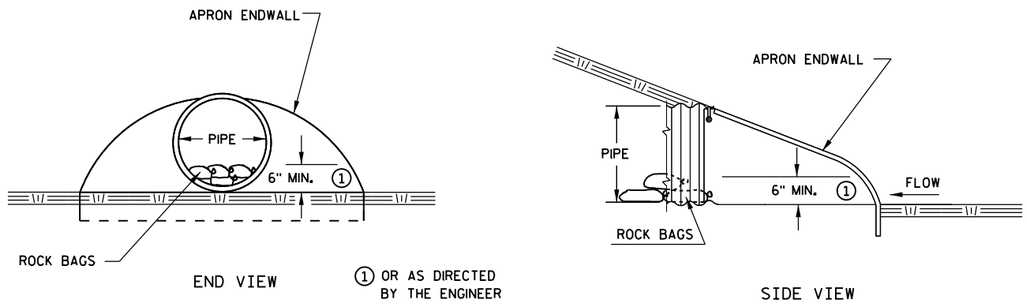


BERM DETAIL 36-INCH MOUNTABLE CURB & GUTTER

NTS

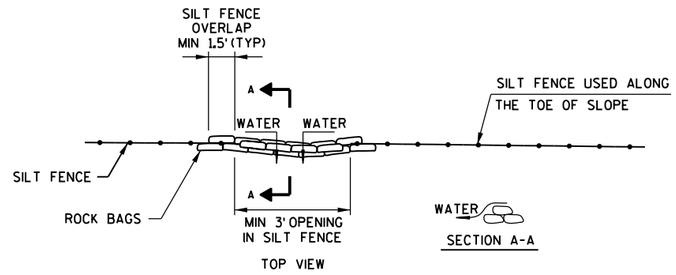


DETAIL FOR RIPRAP MEDIUM IN DITCHES



CULVERT PIPE CHECK

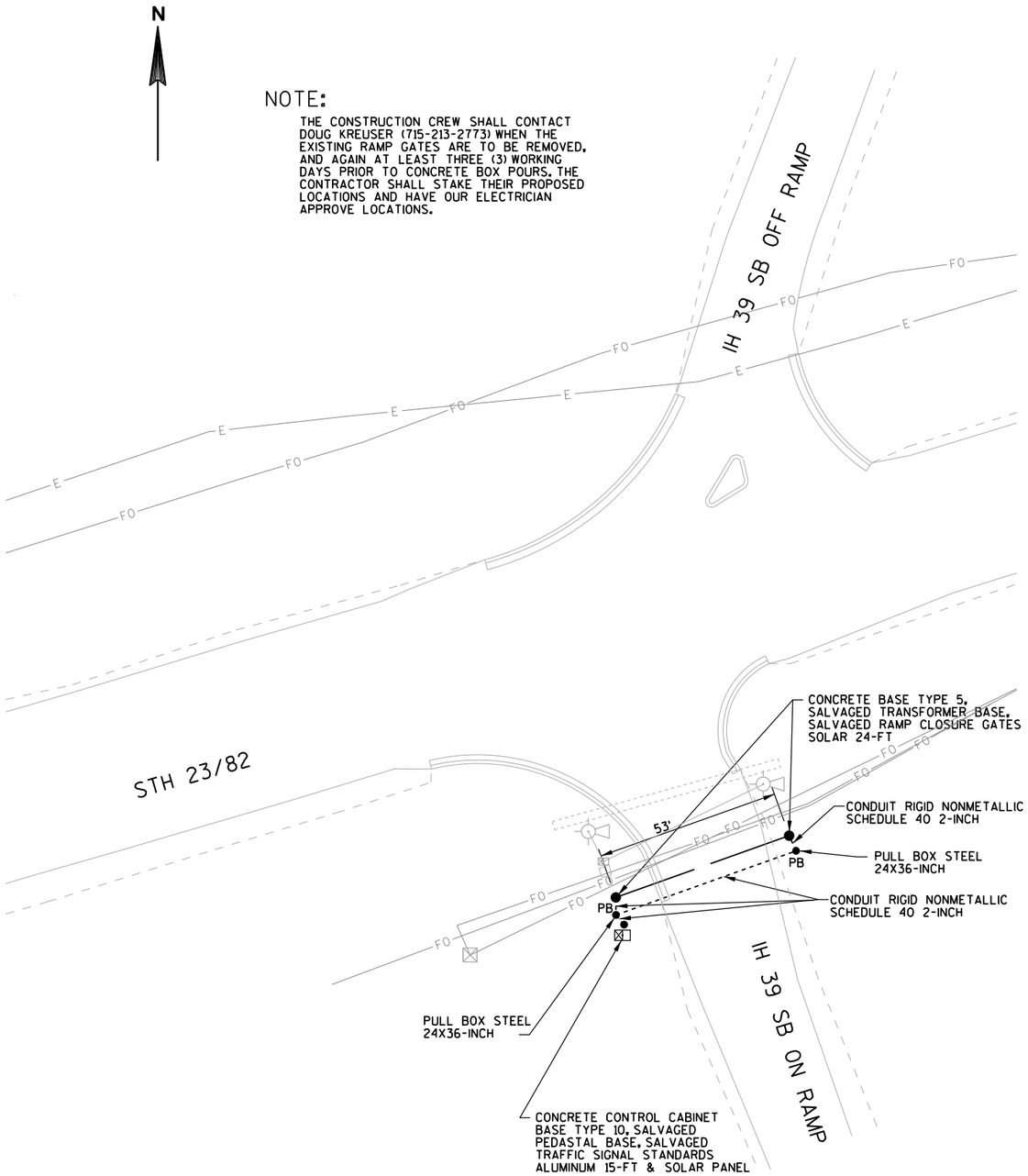
NTS



ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

PAID AS ROCK BAGS

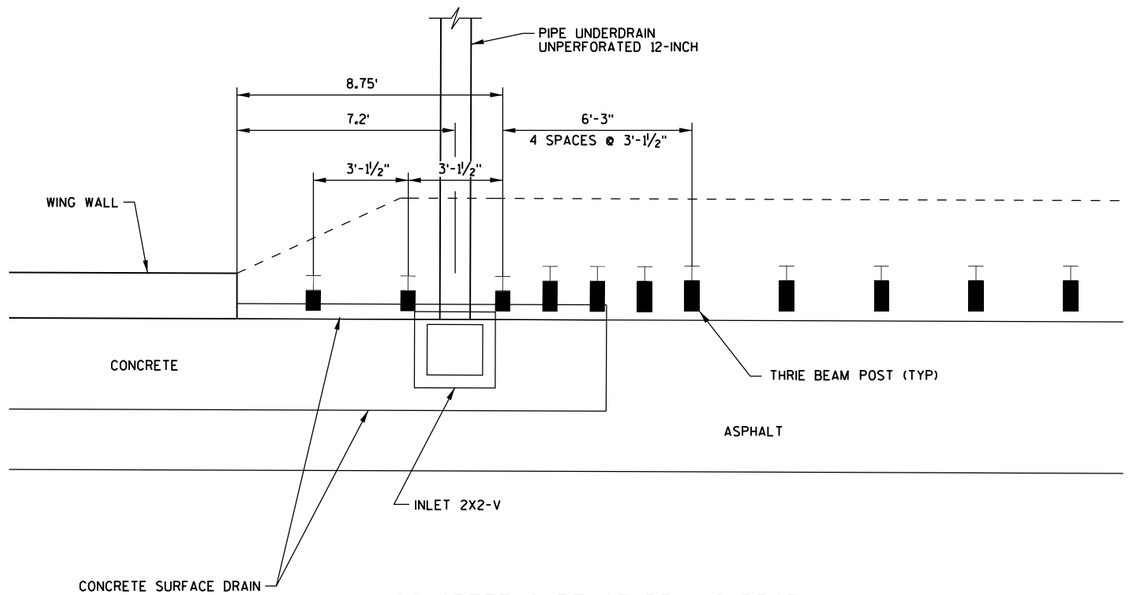
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FREEWAY ON-RAMP CLOSURE GATE

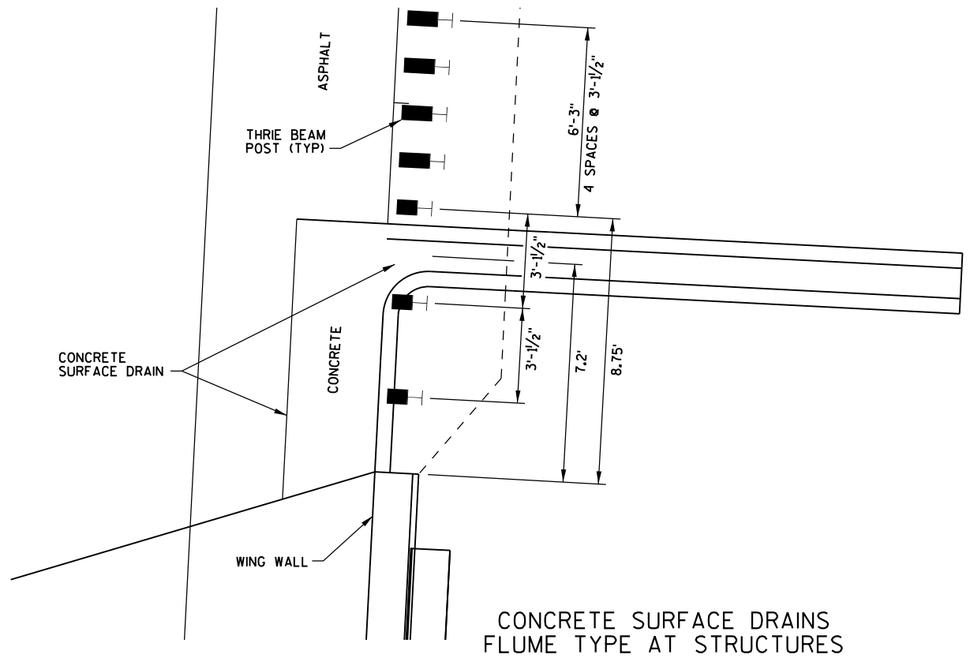
NTS

G-39-07 SE QUAD
G-39-08 SW QUAD



CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES

652SB+60.52 LT
101H+99.20 LT & RT
101J+92.70 LT & RT



CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

652SB+75.33 RT

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION DETAIL	SHEET 13	E

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PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

0' 25' 50' 100'
SCALE

END REMOVING ASPHALTIC SURFACE BUTT JOINTS STA 746SB+07

BEGIN REMOVING ASPHALTIC SURFACE BUTT JOINTS STA 747SB+09

BEGIN REMOVING ASPHALTIC SURFACE BUTT JOINTS STA 745SB+32

END REMOVING ASPHALTIC SURFACE BUTT JOINTS STA 747SB+84

740SB 741SB 742SB 743SB 744SB 745SB 746SB 747SB 748SB 749SB 750SB 751SB 752SB 753SB 754SB

IH 39 SB

℄ IH 39 SB

STRUCTURE B-39-10
CONCRETE OVERLAY REQUIRED
SEE STRUCTURE PLANS

740NB 741NB 742NB 743NB 744NB 745NB 746NB 747NB 748NB 749NB 750NB 751NB 752NB 753NB 754NB

IH 39 NB

MARQUETTE ADAMS TELEPHONE COOP - FIBER OPTIC

STRUCTURE B-39-27
POLYMER OVERLAY REQUIRED
SEE STRUCTURE PLANS

ADAMS-COLUMBIA ELECTRIC COOPERATIVE - ELECTRIC

FRONTIER COMMUNICATIONS OF WI LLC - TELEPHONE

WE ENERGIES - GAS

ATC MANAGEMENT, INC. - ELECTRIC

FAWN CT

R/W

RIPRAP

SUBSTATION

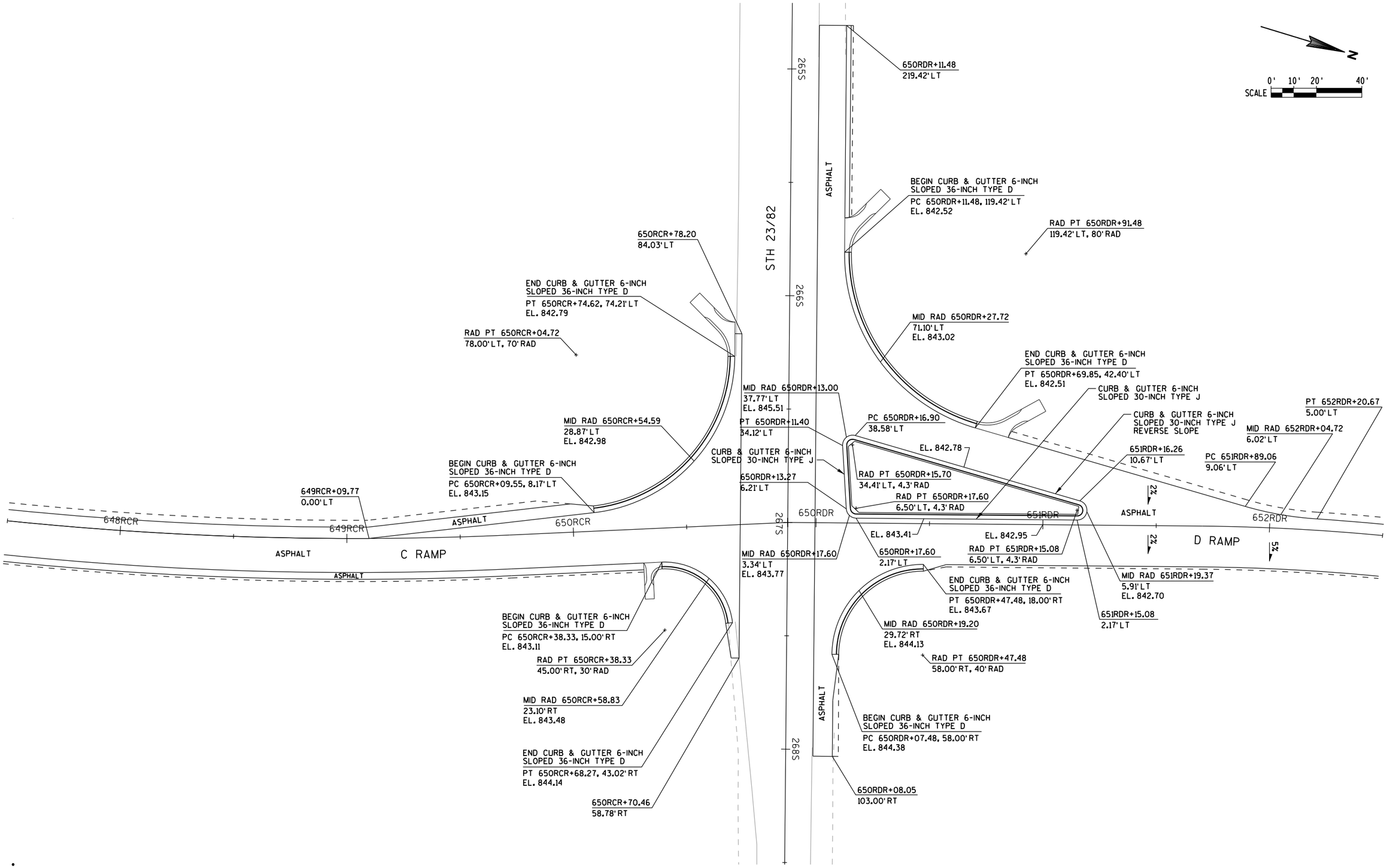
SIGN

POOL

SLAB

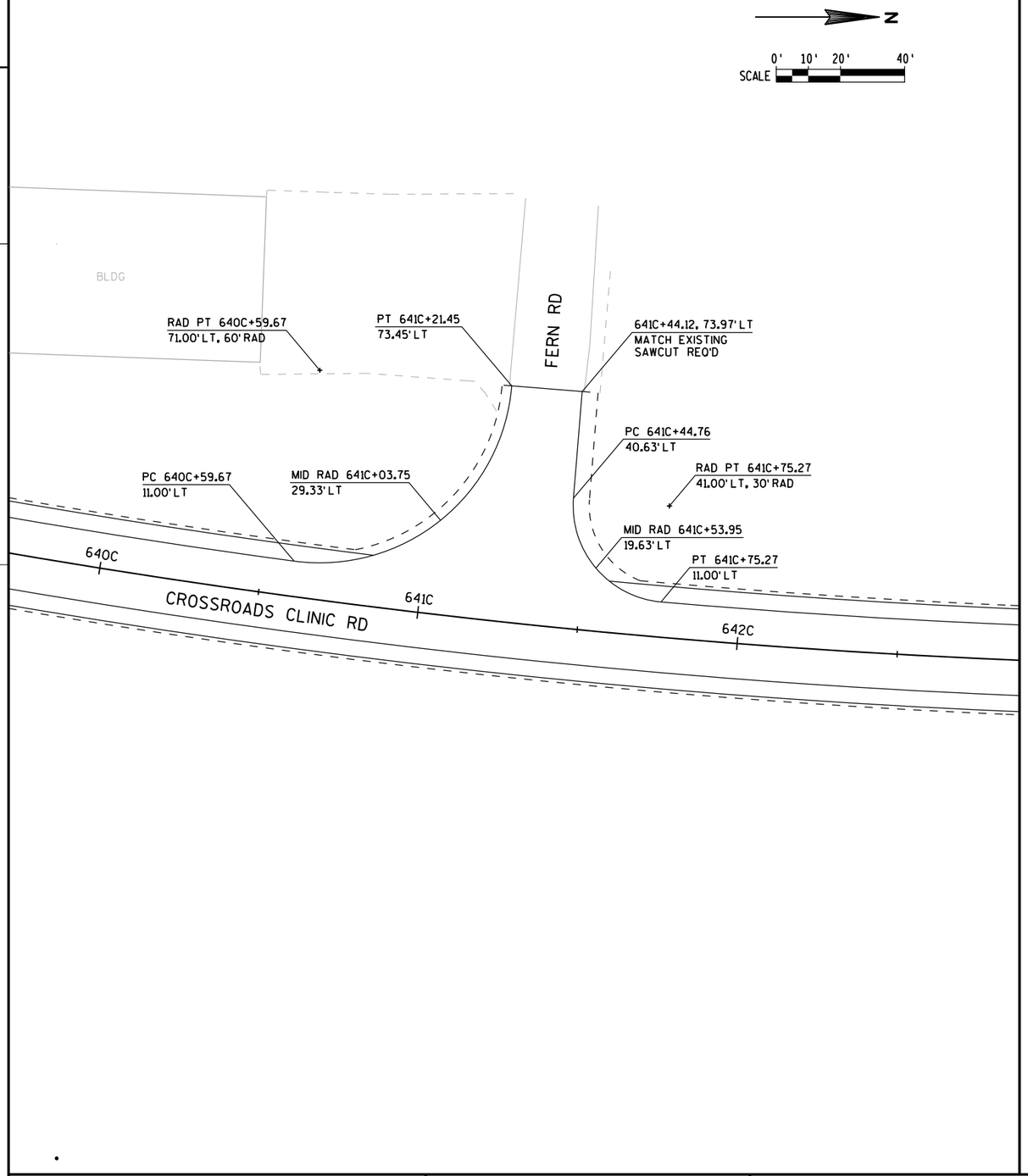
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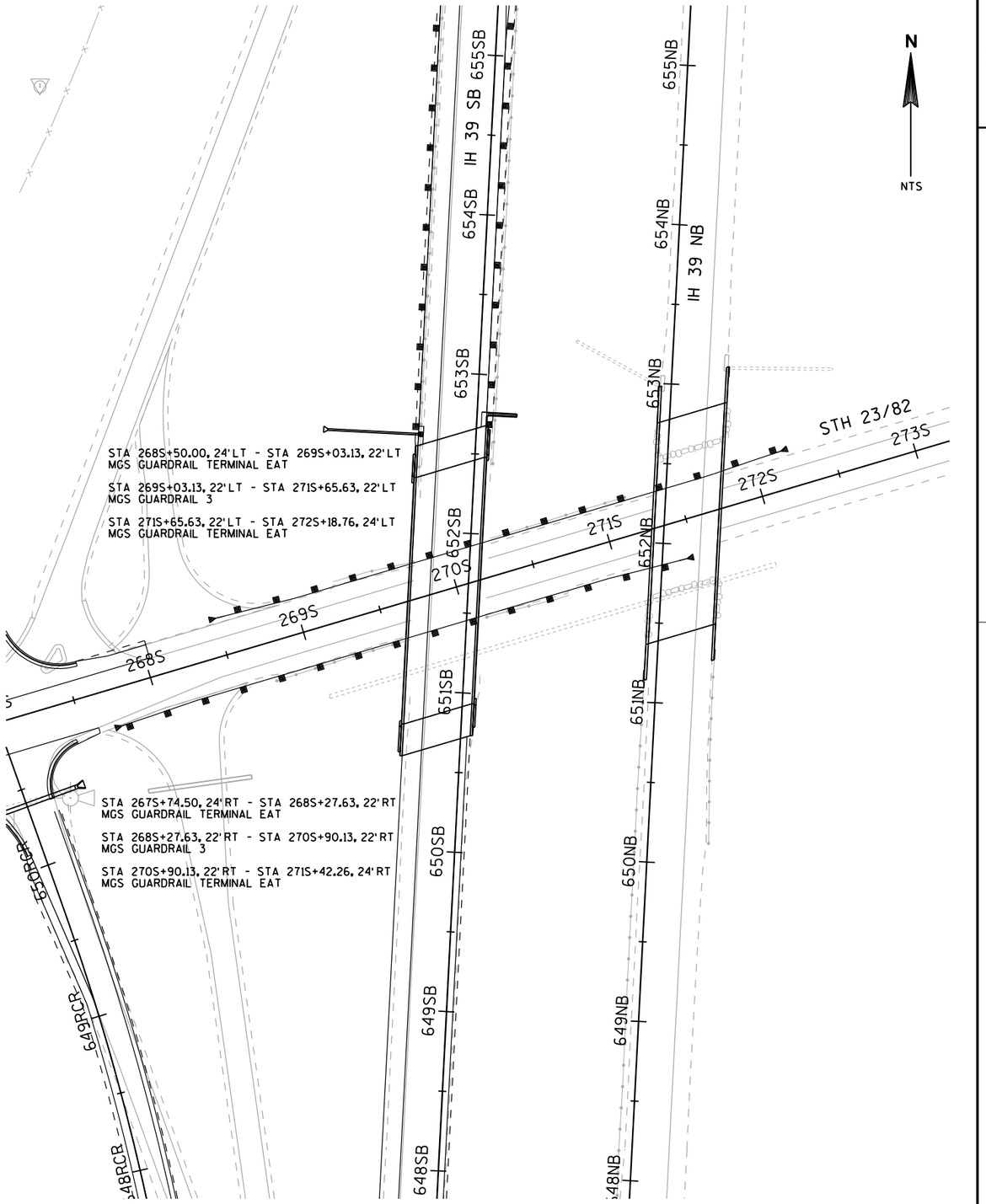
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PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	LAYOUT - C & D RAMP	SHEET 15	E

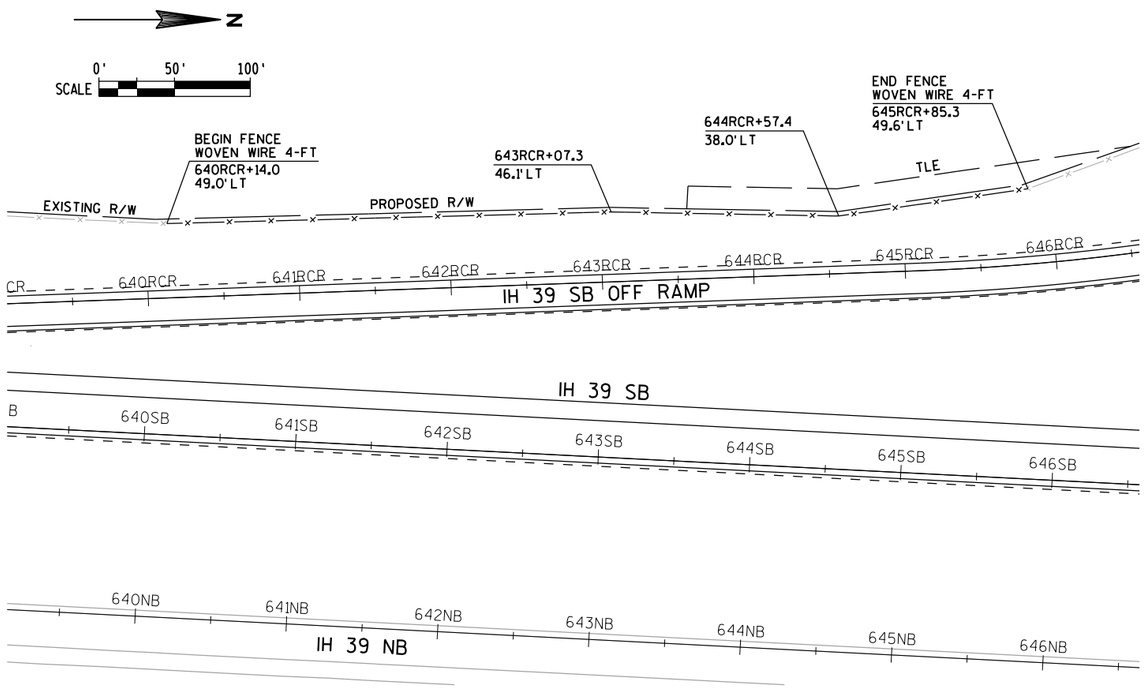
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WISDOT/CADDS SHEET 42

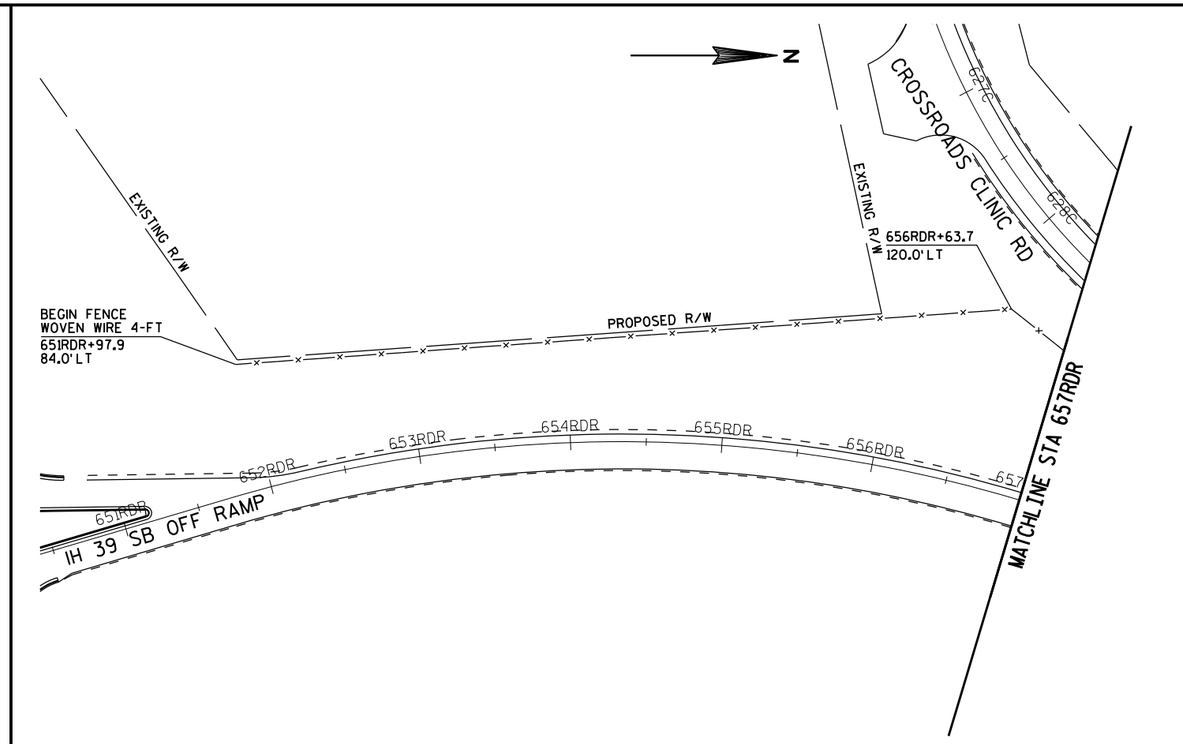


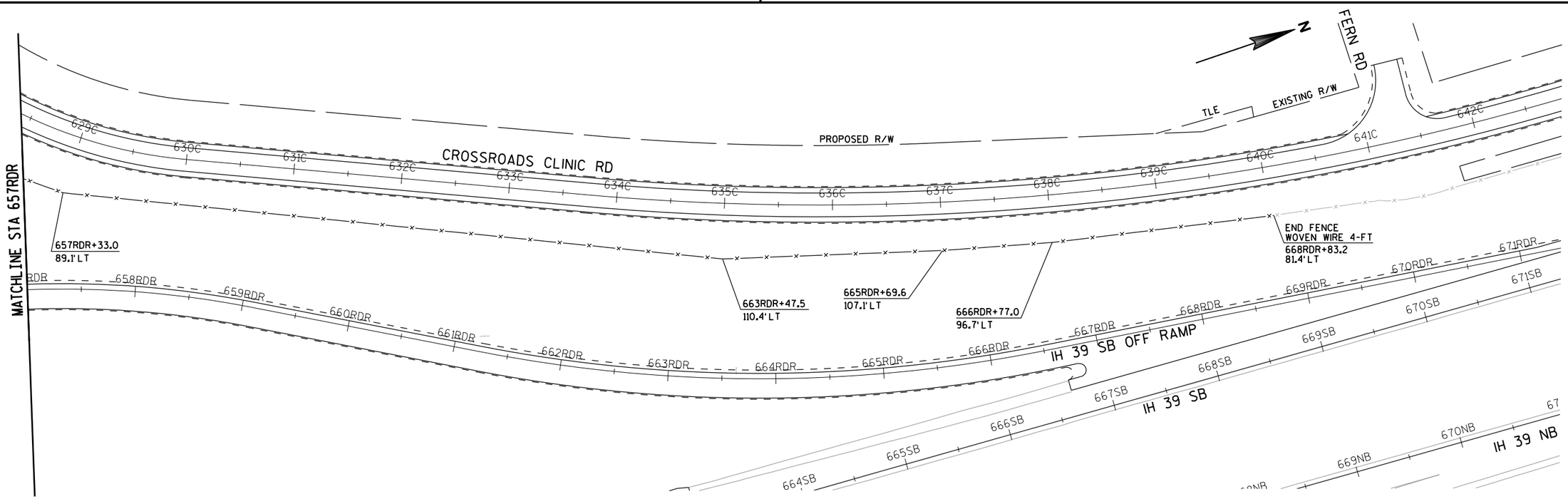


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PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	LAYOUT - CROSSROADS CLINIC ROAD AND STH 23/82 GUARDRAIL	SHEET 16	E

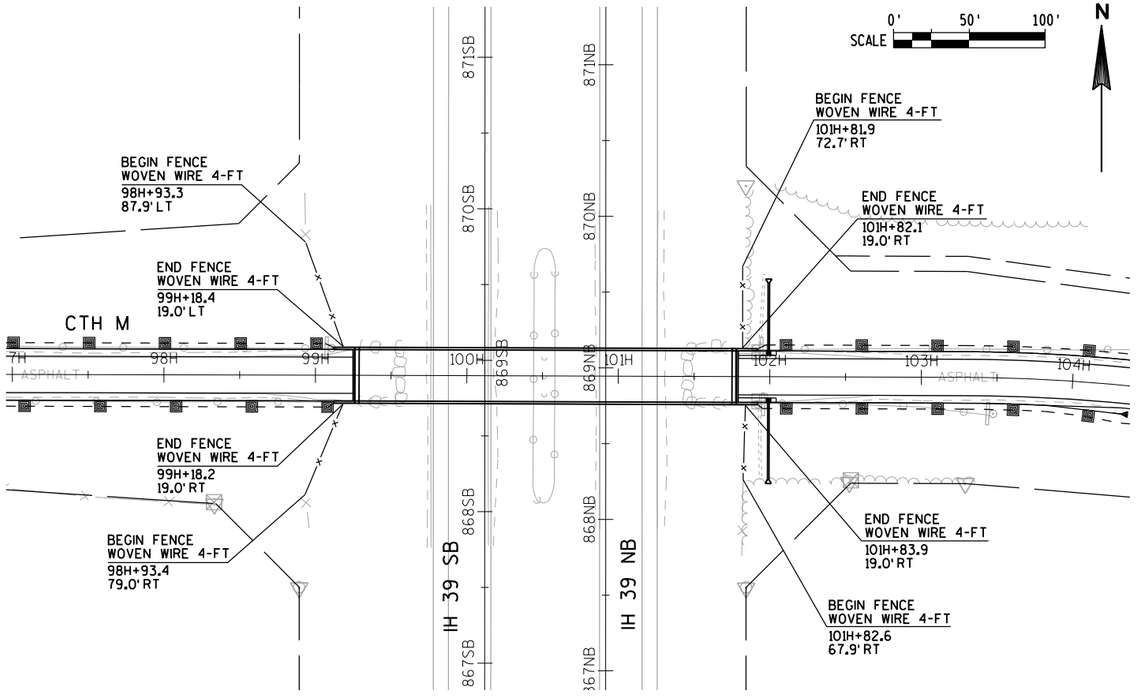


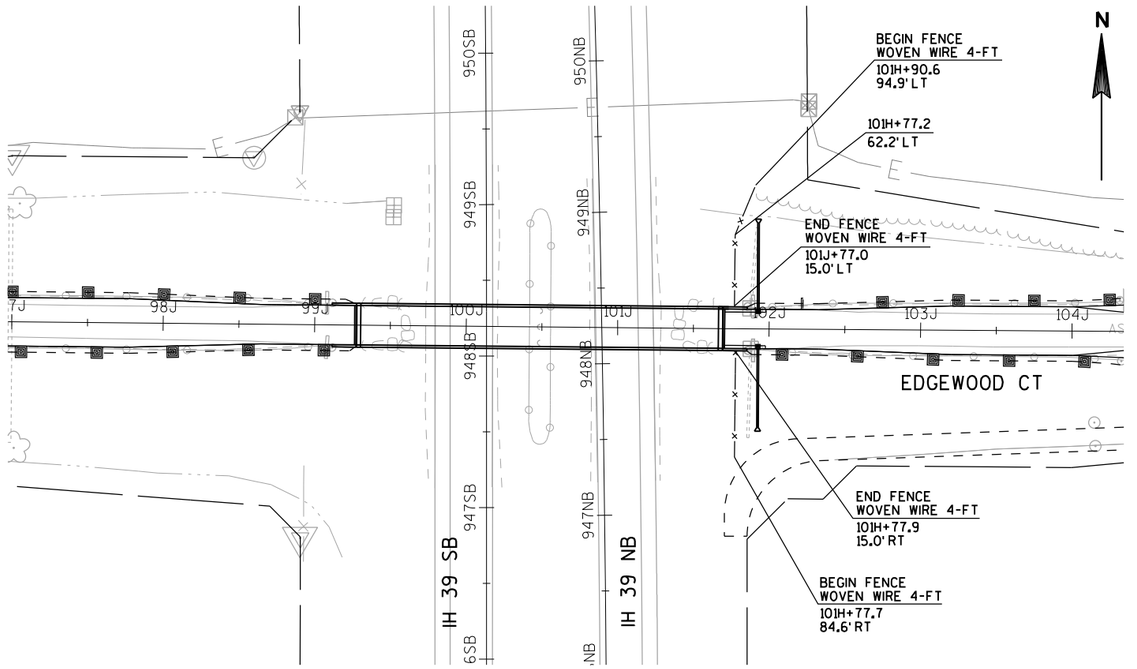




PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	LAYOUT - FENCE WOVEN WIRE 4-FT	SHEET 17	E

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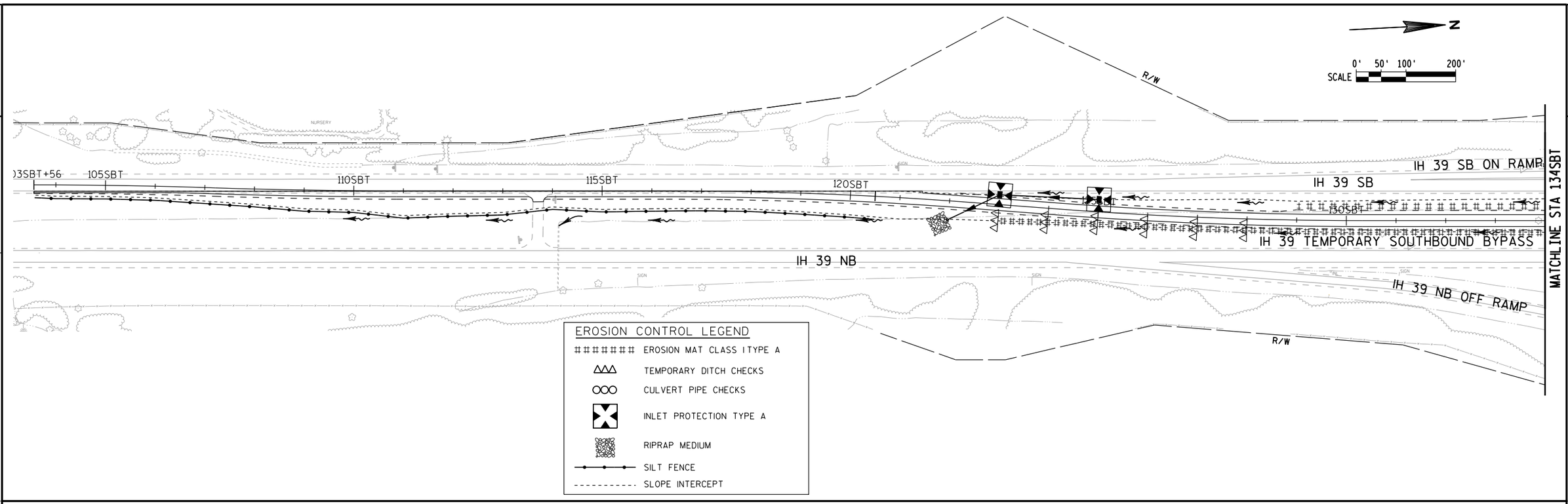


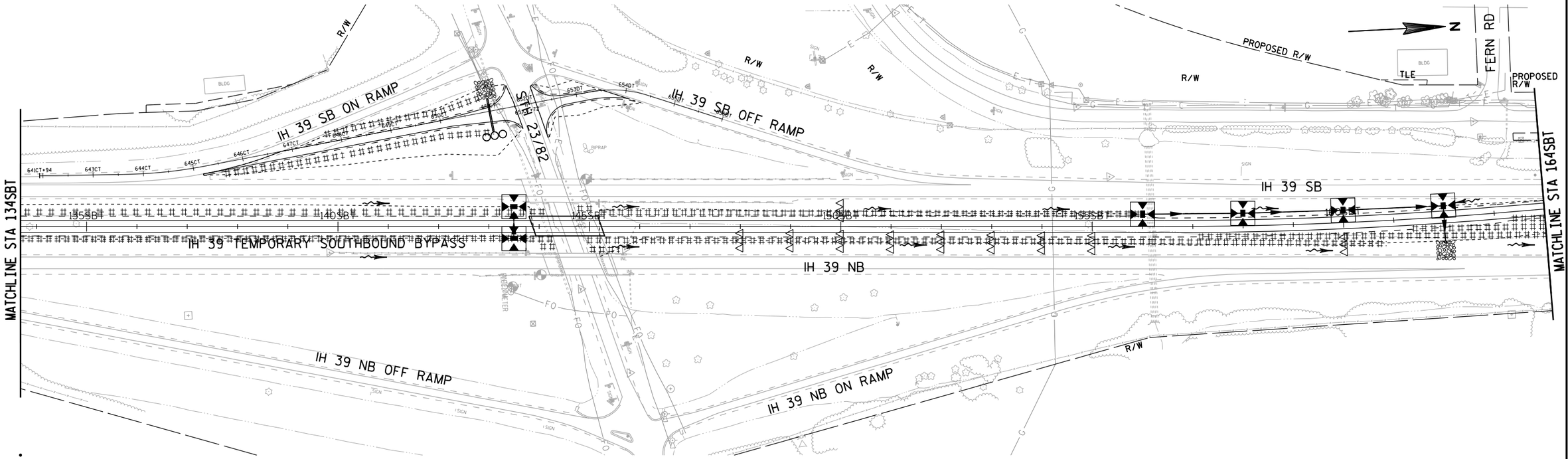


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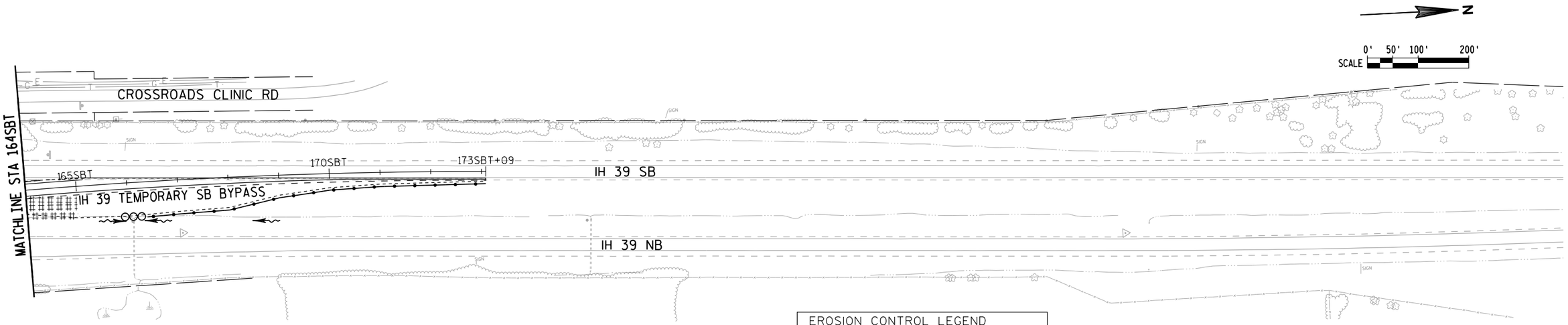
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WISDOT/CADDS SHEET 42





PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	EROSION CONTROL - IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 19	E

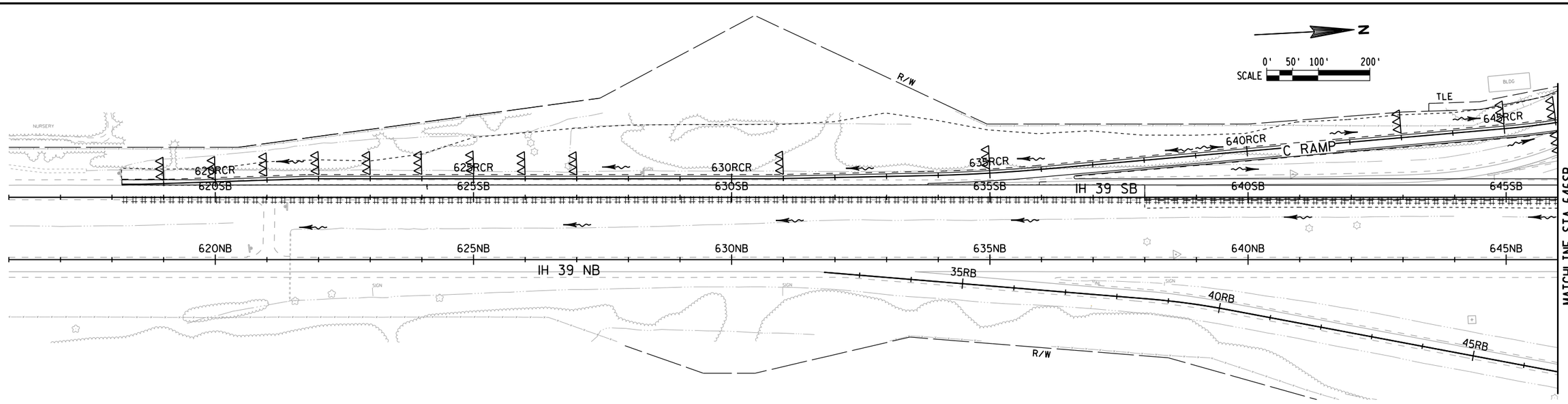
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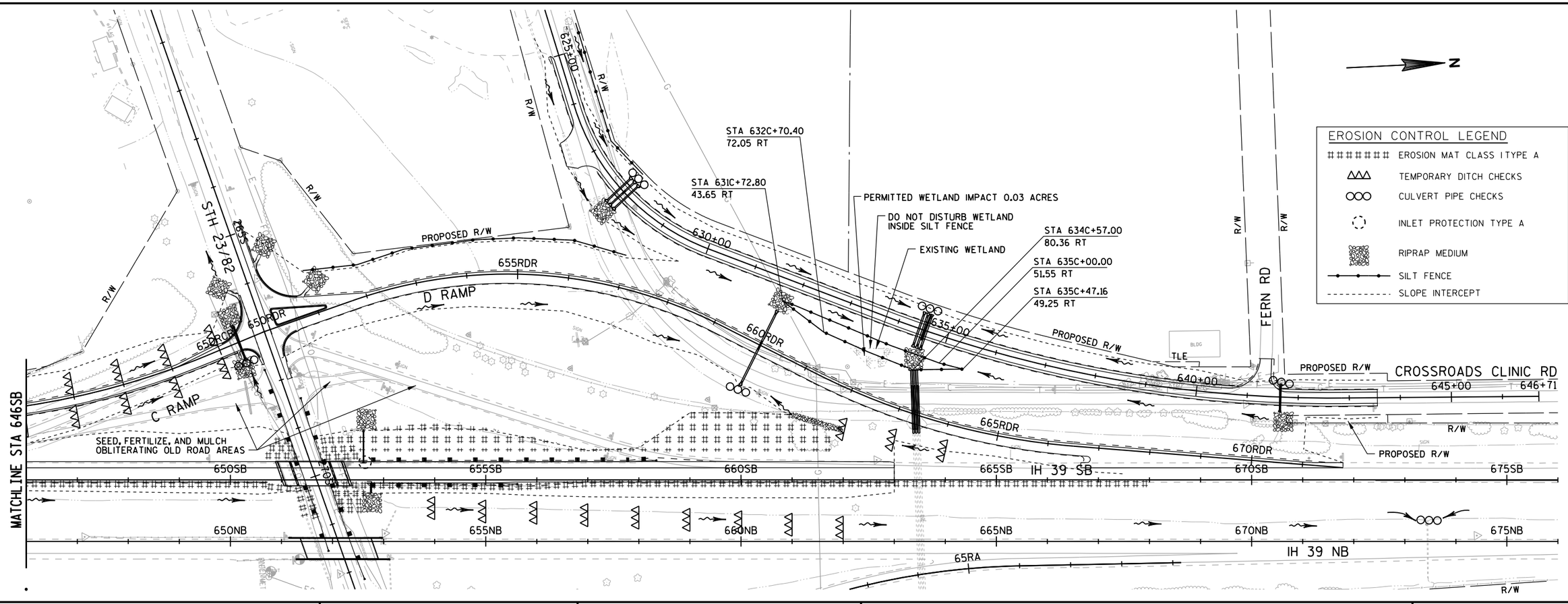


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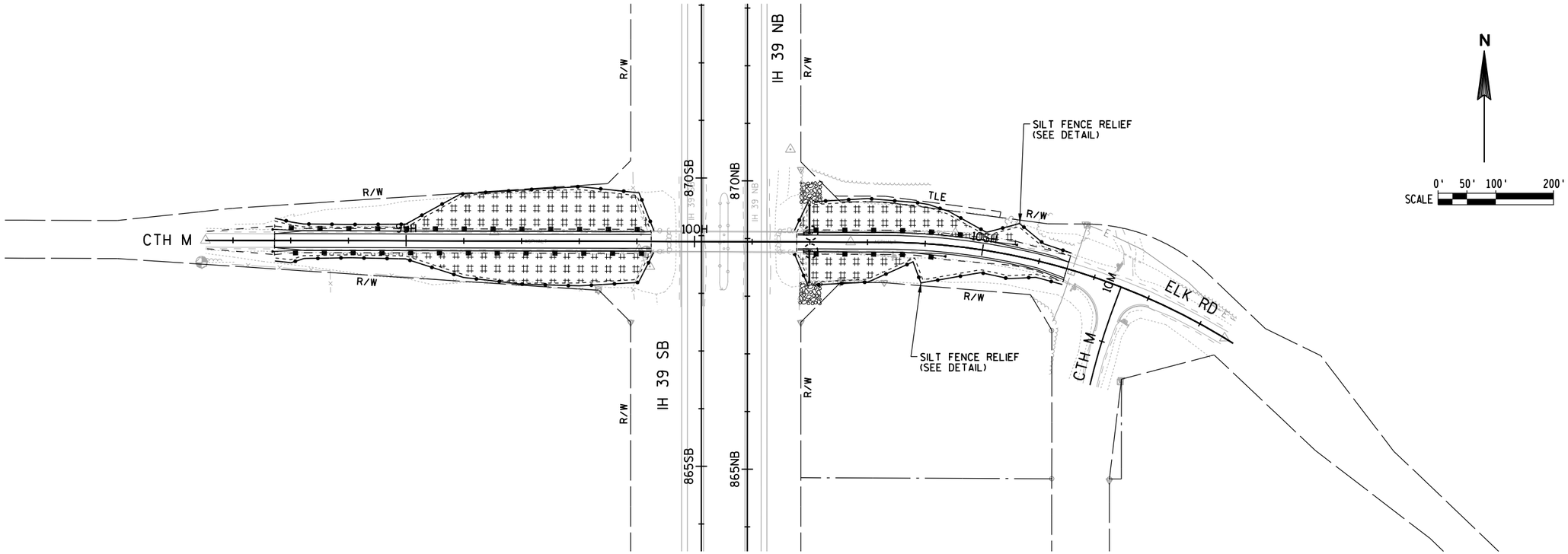
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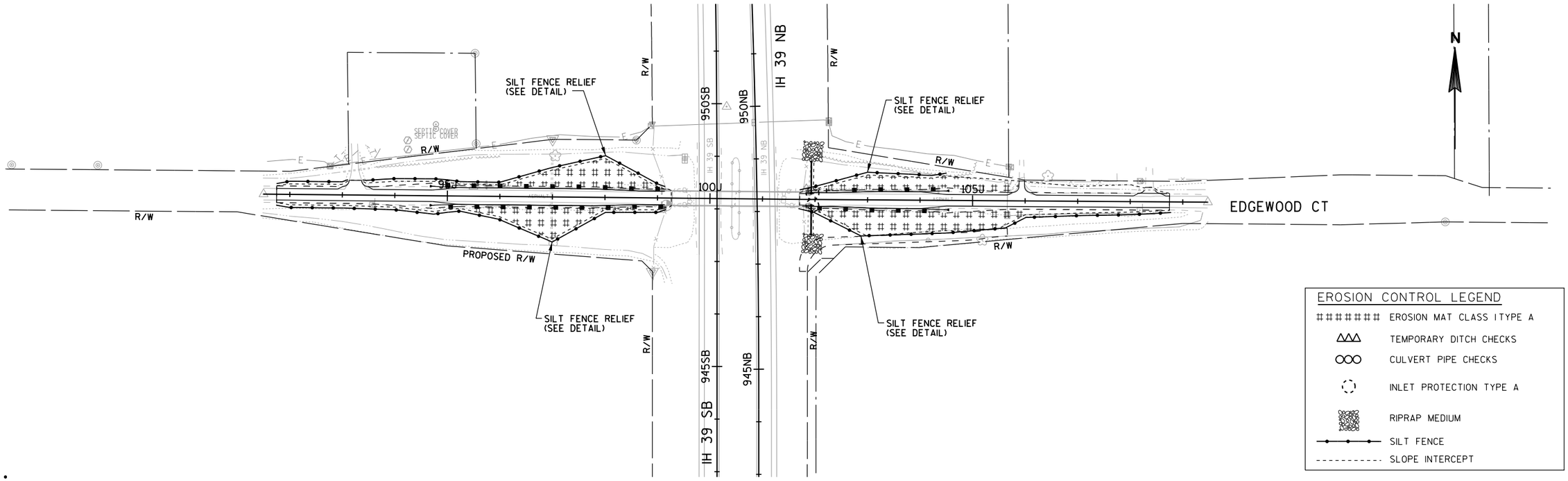




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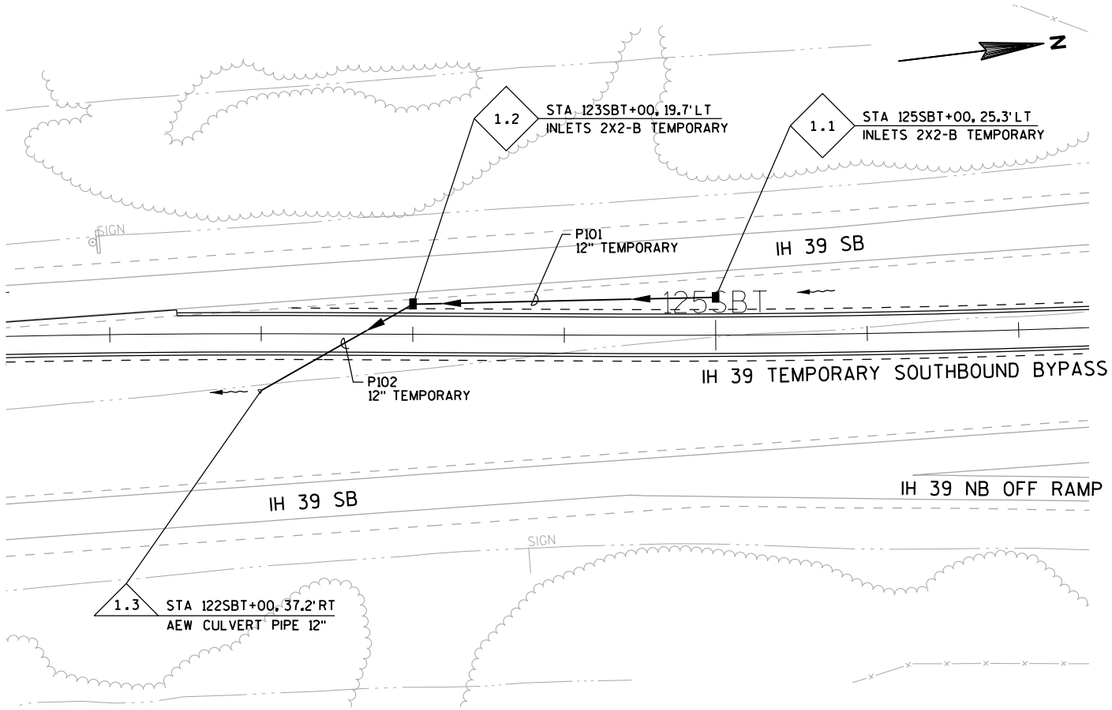
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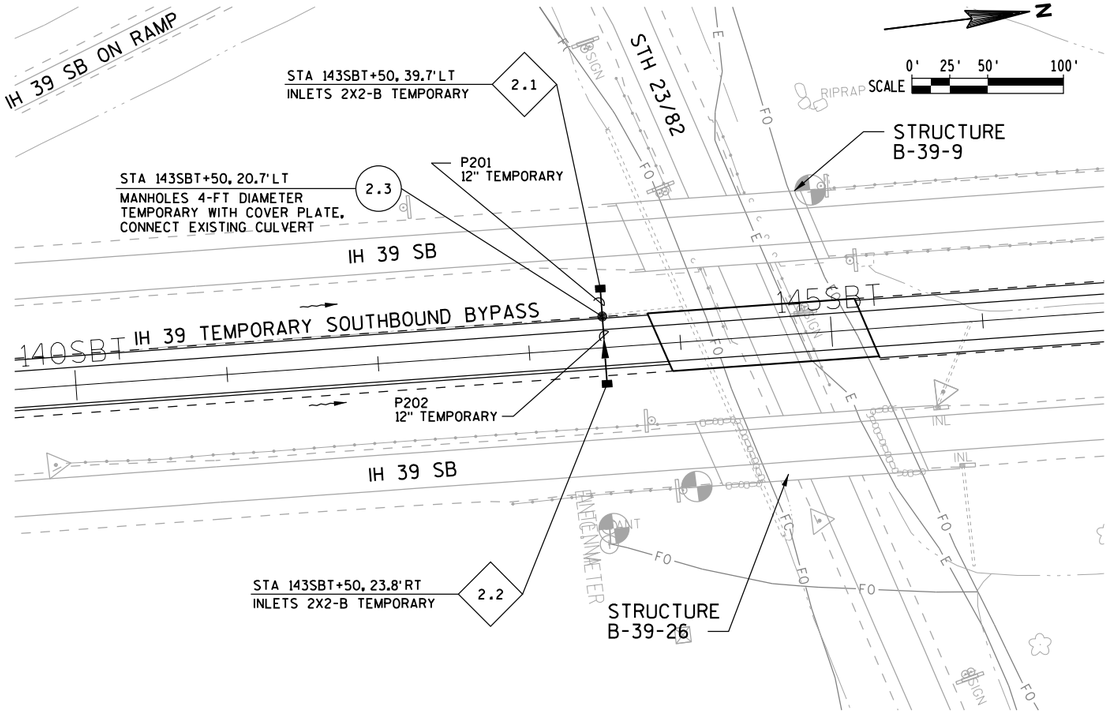


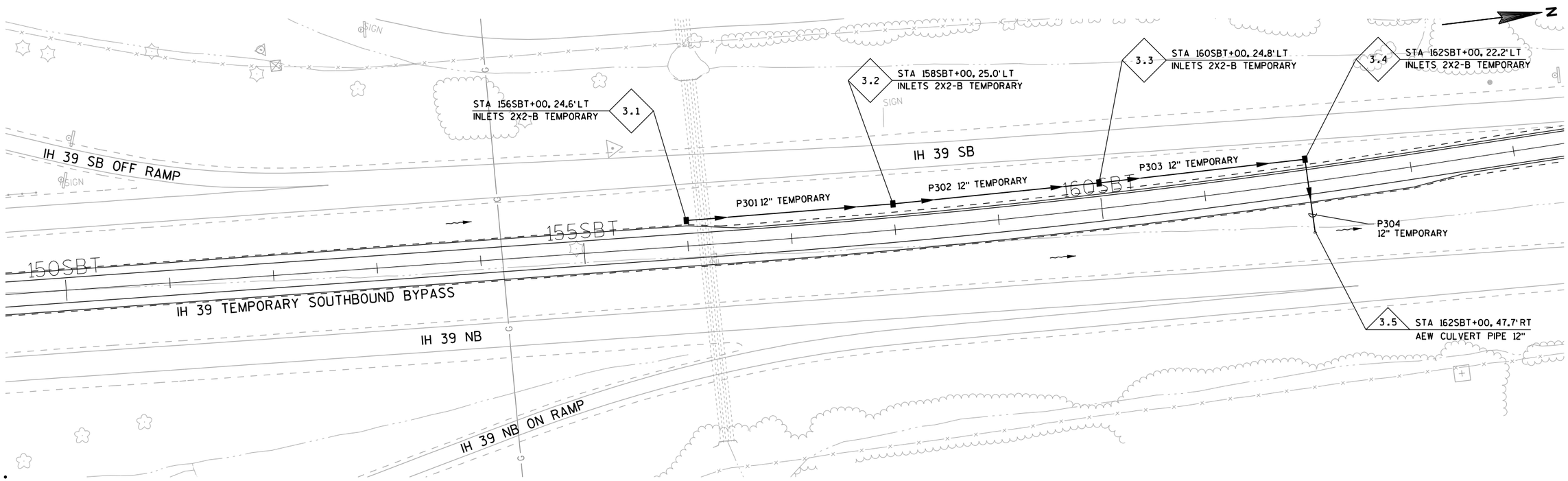


PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	EROSION CONTROL - CTH M AND EDGEWOOD COURT	SHEET 22	E

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WISDOT/CADDS SHEET 42







PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	STORM SEWER - IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 23	E

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WISDOT/CADDS SHEET 42

2

N

SCALE 0' 50' 100' 200'

PLACE AT STA 598SB+00

SPEED LIMIT 65
R2-1
36" X 48"

SPEED LIMIT 65
REMOVE

MILE 106
D10-3
12" X 48"

MILE 106
REMOVE

PLACE AT STA 608SB+00

SOUTH SOUTH WEST
INTERSTATE 39 51 23
J4-3
108" X 54"

SOUTH SOUTH WEST
INTERSTATE 39 51 23
REMOVE

W4-1
48" X 48"

620RCR 620SB 625RCR 625SB 630RCR 630SB 635RCR 635SB 640RCR C RAMP 640SB 645RCR 645SB

IH 39 SB

620NB 625NB IH 39 NB 630NB 635NB 640NB 645NB

35RB 40RB IH 39 NB OFF RAMP 45RB

MATCHLINE STA 646SB

LEGEND

1. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)
2. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE; 3 FT LINE, 9 FT SKIP)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
5. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
6. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
7. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
8. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
9. PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. PAVEMENT MARKING ARROWS EPOXY TYPE 4 (WHITE)
11. PAVEMENT MARKING EPOXY 4-INCH TYPE 4 (DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 24	E

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PLOT DATE: 1/30/2015
PLOT TIME: 11:25:17 AM
PLOT SCALE: 1:200
WISDOT/CADDS SHEET 42

2

LEGEND

1. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)
2. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE; 3 FT LINE, 9 FT SKIP)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
5. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
6. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
7. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
8. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
9. PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. PAVEMENT MARKING ARROWS EPOXY TYPE 4 (WHITE)
11. PAVEMENT MARKING EPOXY 4-INCH TYPE 4 (DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)

N

SCALE 0' 50' 100' 200'

SEE PERMANENT SIGNING AND PAVEMENT MARKINGS - STH 23/82 DETAIL

EAST 23 WEST 82
J3-2
48" X 57"

WRONG WAY
R5-1A
36" X 24"

WRONG WAY
REMOVE

WRONG WAY
R5-1A
36" X 24"

Montello
Packwaukee
Oxford
REMOVE

Montello
Packwaukee
Oxford
D1-3
84" X 36"

STOP AHEAD
REMOVE

W3-1
36" X 36"

REMOVE

REMOVE

35 M.P.H.
REMOVE

STOP
R1-1
30" X 30"

STOP
REMOVE

FERN RD
CROSSROADS CLINIC RD
TO REMAIN

MILE 107
D10-3
12" X 48"

MILE 107
REMOVE

STH 23/82

625+00

630+00

635+00

640+00

655RDR

650RDR

650SB

D RAMP

660RDR

C RAMP

CROSSROADS CLINIC RD

665RDR

670RDR

MATCHLINE STA 646SB

STRUCTURE B-39-9 (TO BE REMOVED)
STRUCTURE B-39-76

650SB 655SB 660SB 665SB 670SB

IH 39 SB

650NB 655NB 660NB IH 39 NB 665NB 670NB

65RA

STRUCTURE B-39-26

WRONG WAY
REMOVE

GAS
LODGING

**MOVED BY OTHERS

EXIT 106
E5-1A
90" X 60"

REMOVE

REMOVE

REMOVE

REMOVE

REMOVE

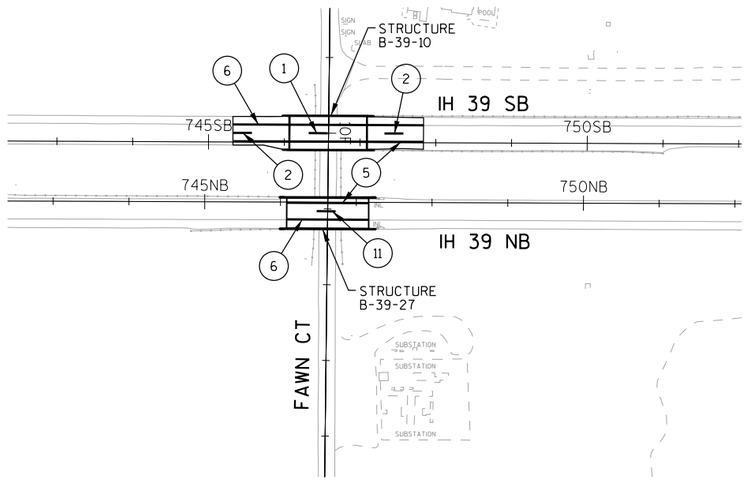
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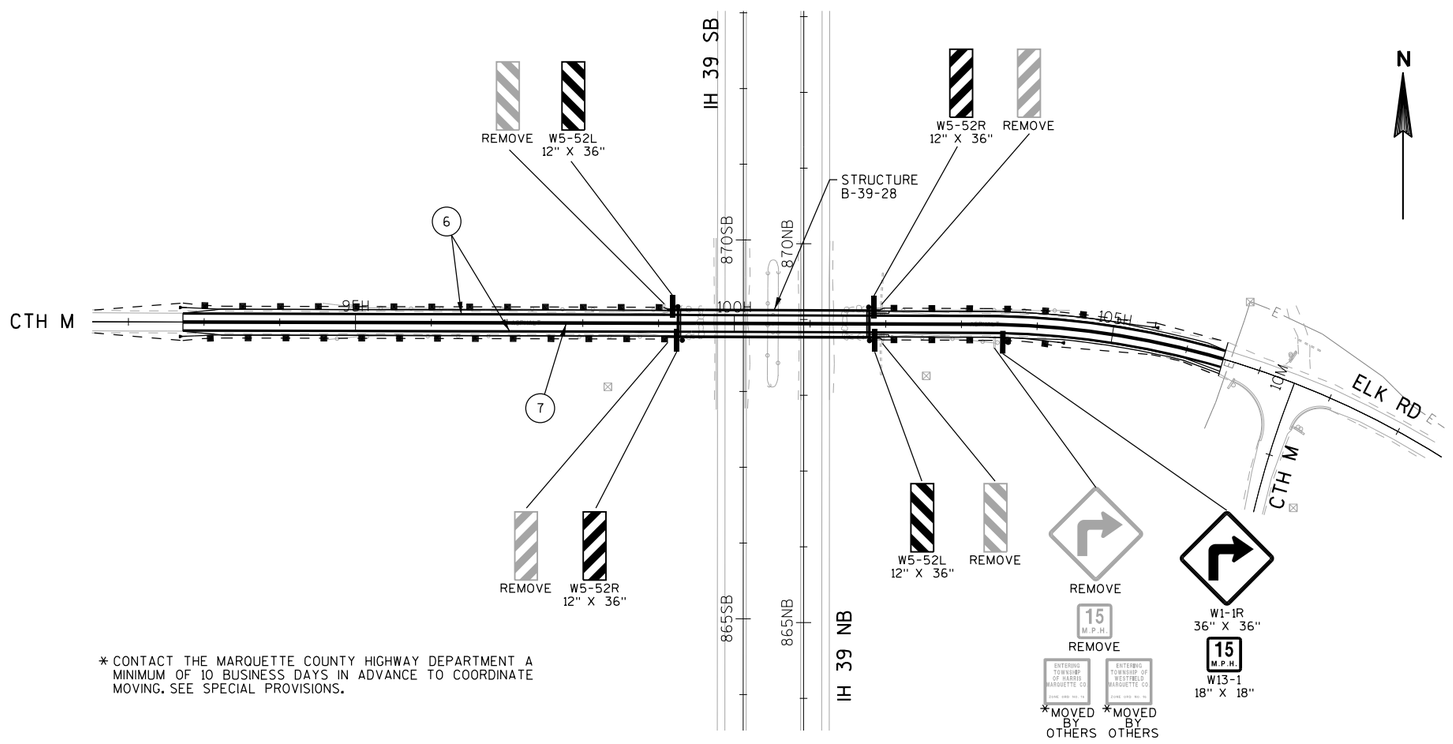
EXIT 106
WEST 82 EAST 23
Oxford
Montello
MOVE

**CONTACT INTERSTATE LOGOS-WISCONSIN A MINIMUM OF 10 BUSINESS DAYS IN ADVANCE TO COORDINATE MOVING. SEE SPECIAL PROVISIONS.

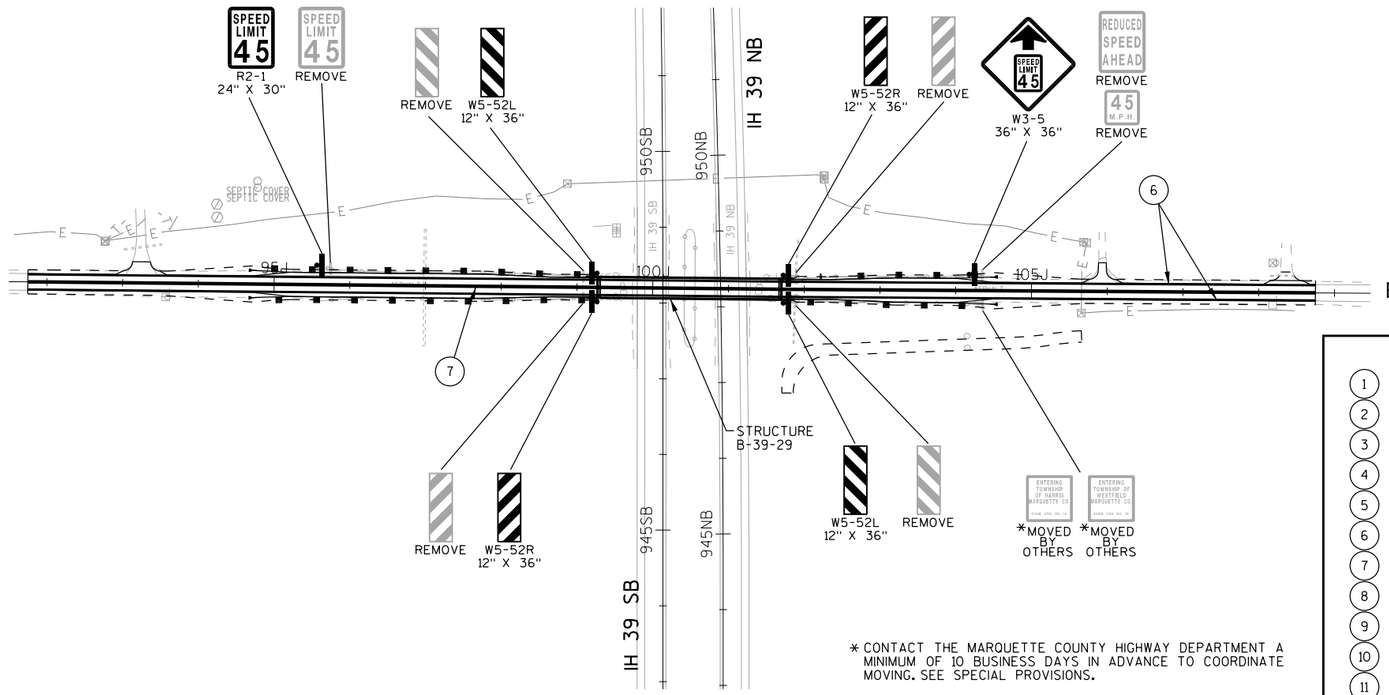
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 25	E

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PLOT DATE: 1/30/2015
PLOT TIME: 11:25:26 AM
PLOT SCALE: 1:200
WISDOT/CADDS SHEET 42





* CONTACT THE MARQUETTE COUNTY HIGHWAY DEPARTMENT A MINIMUM OF 10 BUSINESS DAYS IN ADVANCE TO COORDINATE MOVING. SEE SPECIAL PROVISIONS.



* CONTACT THE MARQUETTE COUNTY HIGHWAY DEPARTMENT A MINIMUM OF 10 BUSINESS DAYS IN ADVANCE TO COORDINATE MOVING. SEE SPECIAL PROVISIONS.

LEGEND

1. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)
2. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE; 3 FT LINE, 9 FT SKIP)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
5. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
6. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
7. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
8. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
9. PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. PAVEMENT MARKING ARROWS EPOXY TYPE 4 (WHITE)
11. PAVEMENT MARKING EPOXY 4-INCH TYPE 4 (DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 26	E

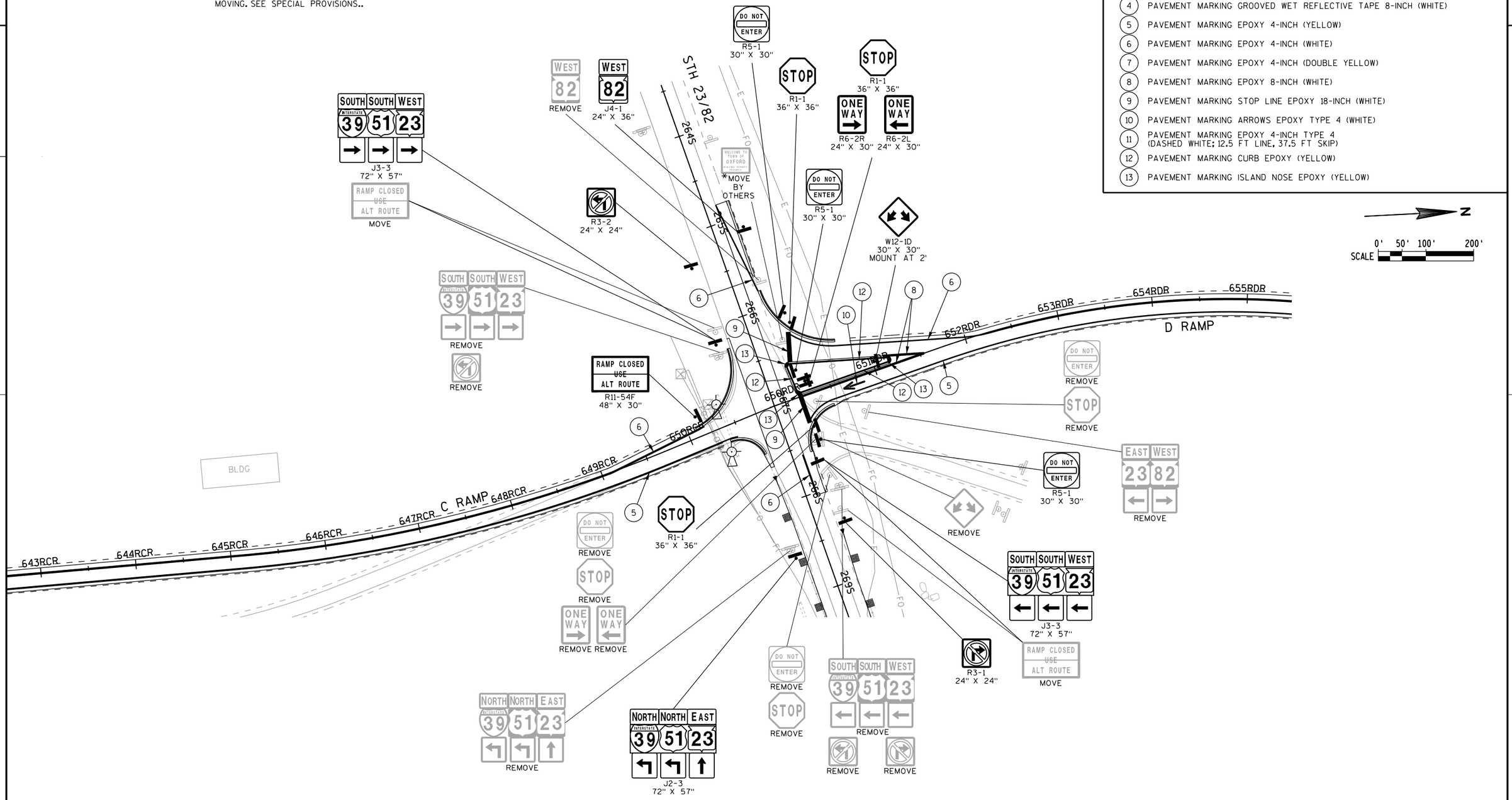
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PLOT DATE: 1/30/2015
PLOT TIME: 11:25:34 AM
PLOT SCALE: 1:200
WISDOT/CADDS SHEET 42

2

* CONTACT THE TOWN OF OXFORD A MINIMUM OF 10 BUSINESS DAYS IN ADVANCE TO COORDINATE MOVING. SEE SPECIAL PROVISIONS..

LEGEND

1. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)
2. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE; 3 FT LINE, 9 FT SKIP)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
5. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
6. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
7. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
8. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
9. PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
10. PAVEMENT MARKING ARROWS EPOXY TYPE 4 (WHITE)
11. PAVEMENT MARKING EPOXY 4-INCH TYPE 4 (DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)
12. PAVEMENT MARKING CURB EPOXY (YELLOW)
13. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PERMANENT SIGNING AND PAVEMENT MARKINGS - STH 23/82 DETAIL	SHEET 27	E

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PLOT DATE: 1/30/2015
PLOT TIME: 11:25:41 AM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

LEGEND

T SINGLE DELINEATOR

T DOUBLE DELINEATOR

W WHITE

N

SCALE 0' 25' 50' 100'

W AT 100' SPACING (TYP)

IH 39 SB ON RAMP

619RCR 620RCR 621RCR 622RCR 623RCR 624RCR 625RCR 626RCR 627RCR 628RCR 629RCR 630RCR 631RCR 632

SB 618SB 619SB 620SB 621SB 622SB 623SB 624SB IH 39 SB 625SB 626SB 627SB 628SB 629SB 630SB 631SB 63

MATCHLINE STA 632SB

NB 618NB 619NB 620NB 621NB 622NB 623NB 624NB 625NB 626NB 627NB 628NB 629NB 630NB 631NB 63

IH 39 NB

N

W AT 100' SPACING (TYP)

IH 39 SB ON RAMP

RCR 633RCR 634RCR 635RCR 636RCR 637RCR 638RCR 639RCR 640RCR 641RCR 642RCR 643RCR 644RCR 645RCR 646RCR 647R

W AT 200' SPACING (TYP)

IH 39 SB

MATCHLINE STA 632SB

SB 633SB 634SB 635SB 636SB 637SB 638SB 639SB 640SB 641SB 642SB 643SB 644SB 645SB 646SB 64

MATCHLINE STA 647SB

NB 633NB 634NB 635NB 636NB 637NB 638NB 639NB 640NB 641NB 642NB 643NB 644NB 645NB 646NB 64

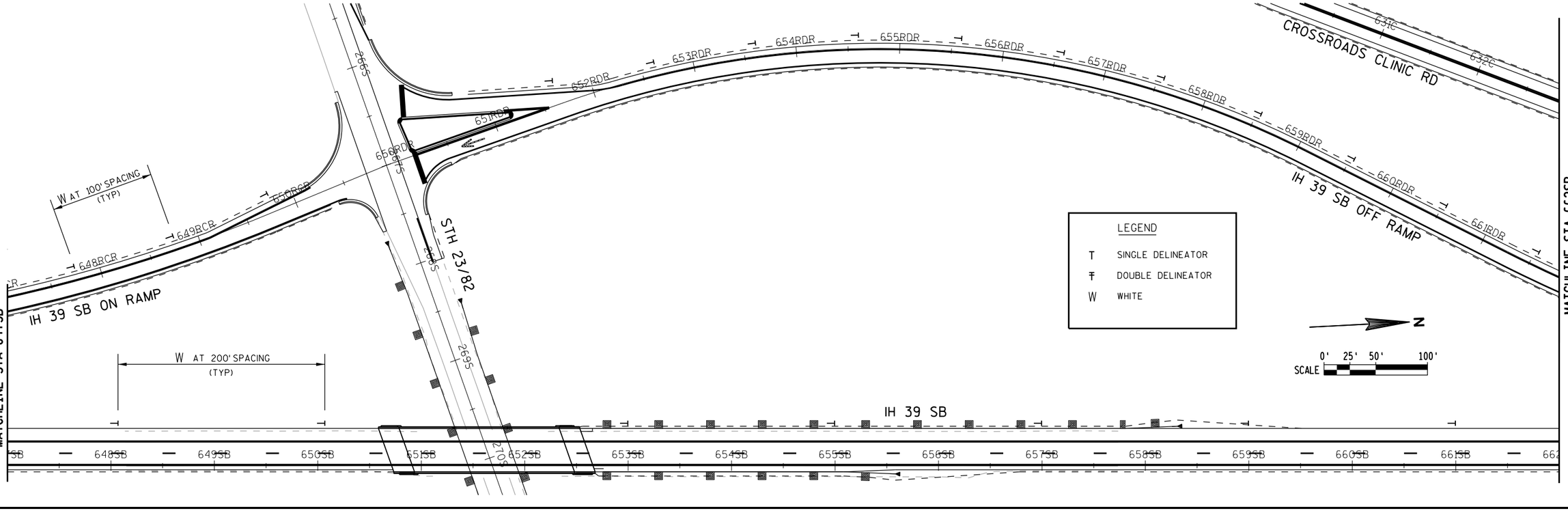
IH 39 NB

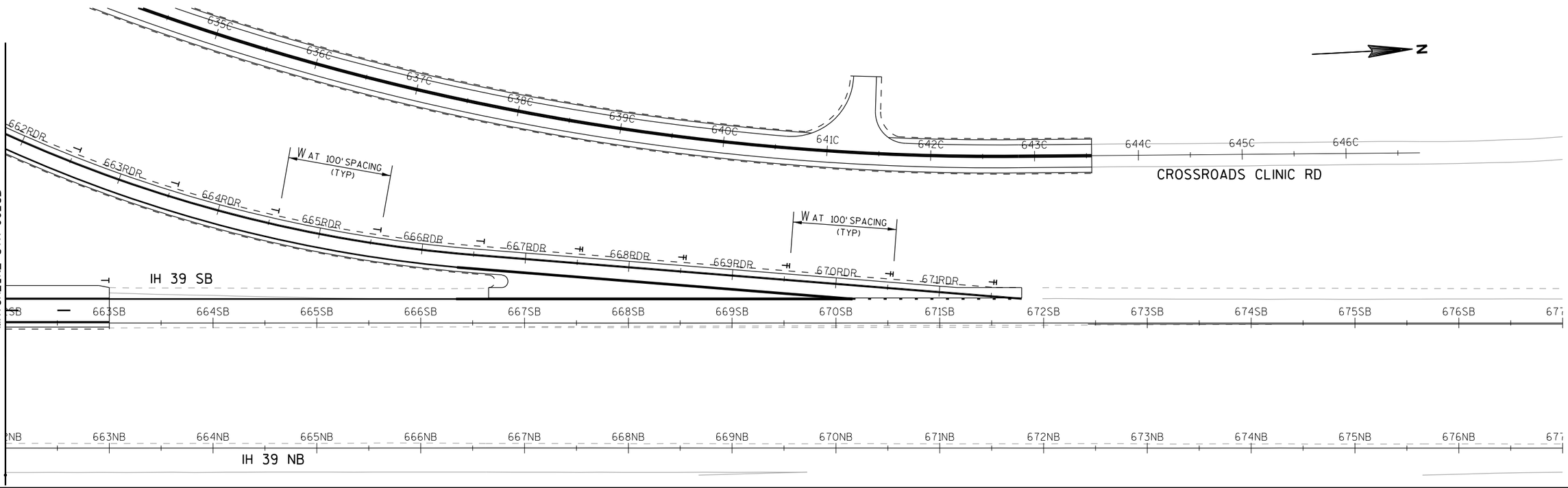
33RB 34RB 35RB 36RB 37RB 38RB 39RB 40RB 41RB

IH 39 NB OFF RAMP

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	DELINEATOR LAYOUT	SHEET 28	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\024505_pm_ps.dgn
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PLOT TIME: 11:25:46 AM
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WISDOT/CADDS SHEET 42





PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	DELINEATOR LAYOUT	SHEET 29	E

2

GENERAL NOTES FOR CHANGEABLE MESSAGE BOARDS

PCMS = PORTABLE MESSAGE SIGN

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING MESSAGE SIGNS. PLACE THE SIGNS SO THE DRIVER HAS A CLEAR VIEW OF THE MESSAGE FOR A MINIMUM OF 1,000 FEET.

MESSAGE SIGNS SHOULD BE PLACED AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY. IN ADVANCE OF INTERSTATE CONSTRUCTION PROJECTS THE SIGNS SHOULD BE PLACED ON THE BACKSLOPE BEYOND THE DITCH. THE LOCATION SELECTED SHOULD BE AT OR SLIGHTLY ABOVE THE ELEVATION OF THE ROADWAY.

FOR INTERMITTENT WORK SUCH AS FREEWAY LANE CLOSURE, OR WHERE SITE CONDITIONS DO NOT ALLOW OTHERWISE, THE SIGNS MAY BE PLACED ON THE SHOULDER. THE SITE SHOULD BE VISITED TO ASSURE VISIBILITY, SAFETY AND MAINTENANCE CONSIDERATIONS. A TAPER OF REFLECTORIZED DRUMS OR BARRICADES SHOULD BE PLACED AHEAD OF A PCMS THAT IS PLACED ON THE SHOULDER IF IT IS NOT SHIELDED BY A BARRIER.

SITE 1 MESSAGE SIGN IS TO BE IN PLACE AND DISPLAYING THE "PRIOR TO CONSTRUCTION" MESSAGES FOR SEVEN DAYS PRIOR TO THE EXPECTED START OF WORK ON IH NB.

SITE 2 MESSAGE SIGN IS TO BE IN PLACE AND DISPLAYING THE "PRIOR TO CONSTRUCTION" MESSAGES FOR SEVEN DAYS PRIOR TO THE EXPECTED START OF WORK ON IH SB.

RAMP GATE INFORMATION

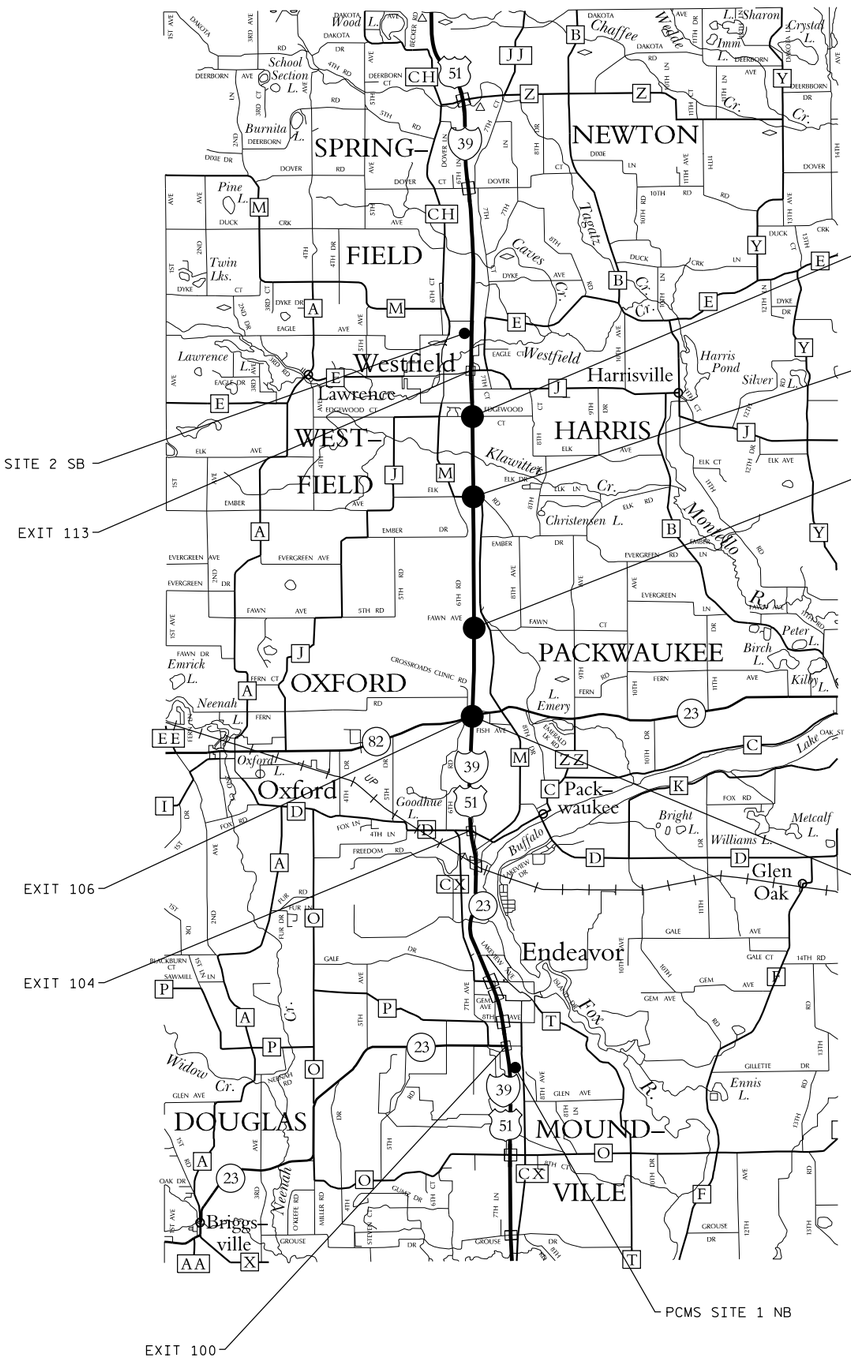
RAMP GATES EXIT 106 (STH 23/82)
G-39-05 (NB RAMP, NE QUAD)
G-39-06 (NB RAMP, NW QUAD)
G-39-07 (SB RAMP, SE QUAD)
G-39-08 (SB RAMP, SW QUAD)

RAMP GATES EXIT 113 (CTH E/J)
G-39-01 (NB RAMP, NE QUAD)
G-39-02 (NB RAMP, NW QUAD)
G-39-03 (SB RAMP, SE QUAD)
G-39-04 (SB RAMP, SW QUAD)

MAINTENANCE CROSSOVER LOCATIONS (MILE MARKER)

113.6
112.5
111.5
110.3
108.0
106.0
104.1
102.6
100.7
99.7

MESSAGE OVERVIEW										
SIGN OWNER	PCMS SITE NO. (DIR.)	MILE MARKER	7 DAYS PRIOR TO CONSTRUCTION		DURING SHOULDER CLOSURE		DURING OUTSIDE LANE CLOSURE		DURING INSIDE LANE CLOSURE	
			FRAME 1	FRAME 2	FRAME 1	FRAME 2	FRAME 1	FRAME 2	FRAME 1	FRAME 2
CONTRACTOR	1 (NB)	99.0	SINGLE LANE TRAFFIC	MON. XX TO FRI. XX	SHLDRS CLOSED	7 MILES AHEAD	RIGHT LANE CLOSED	7 MILES MERGE LEFT	LEFT LANE CLOSED	7 MILES MERGE RIGHT
CONTRACTOR	2 (SB)	116.2	SINGLE LANE TRAFFIC	MON. XX TO FRI. XX	SHLDRS CLOSED	4 MILES AHEAD	RIGHT LANE CLOSED	4 MILES MERGE LEFT	LEFT LANE CLOSED	4 MILES MERGE RIGHT



B-39-29 (EDGEWOOD COURT OVER IH 39)
BRIDGE JACKING, BRIDGE PAINTING,
& IH 39 MAINLINE OVERLAY
MILE MARKER 112.2

B-39-28 (CTH M OVER IH 39)
BRIDGE JACKING, BRIDGE PAINTING,
& IH 39 MAINLINE OVERLAY
MILE MARKER 110.7

B-39-10 (IH 39 SB OVER FAWN COURT)
CONCRETE OVERLAY
MILE MARKER 108.4

B-39-27 (IH 39 NB OVER FAWN COURT)
POLYMER OVERLAY
MILE MARKER 108.4

B-39-76 (IH 39 SB OVER STH 23/82)
STRUCTURE REPLACEMENT & RECONSTRUCT
IH 39 SB AND SB RAMPS AT STH 23/82
MILE MARKER 106.6

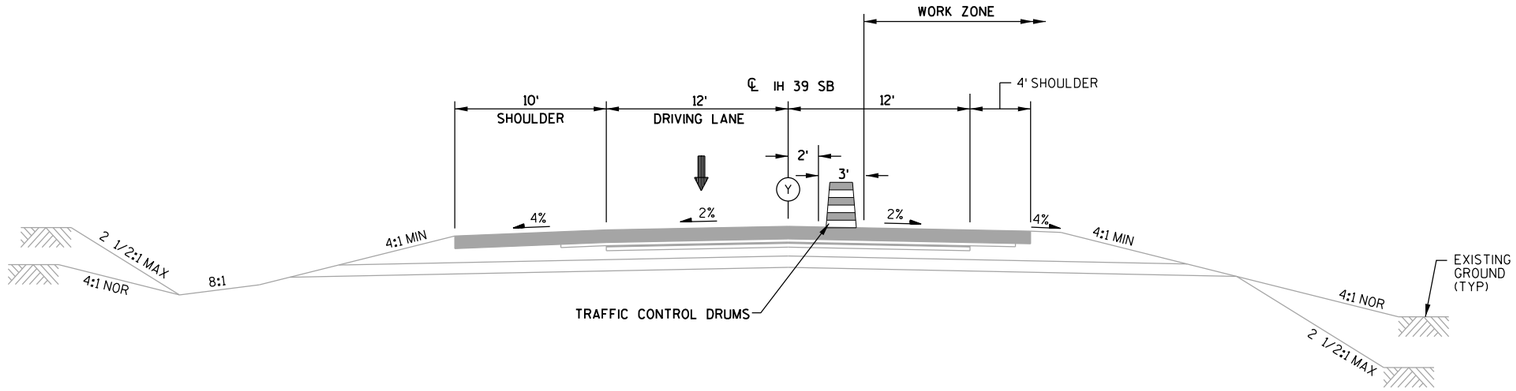
B-39-26 (IH 39 NB OVER STH 23/82)
POLYMER OVERLAY & BRIDGE PAINTING
MILE MARKER 106.6

STH 23/82 INTERCHANGE STAGE 1 NOTES

1. IH 39 SOUTHBOUND (TRAFFIC IN OUTSIDE LANE)
1.1 REMOVE BEAMGUARD (STH 23/82)
1.2 CONSTRUCT MEDIAN TEMPORARY ROAD INCLUDING TEMPORARY BRIDGE
1.3 CONSTRUCT TEMPORARY IH 39 SOUTHBOUND ENTRANCE AND EXIT RAMPS

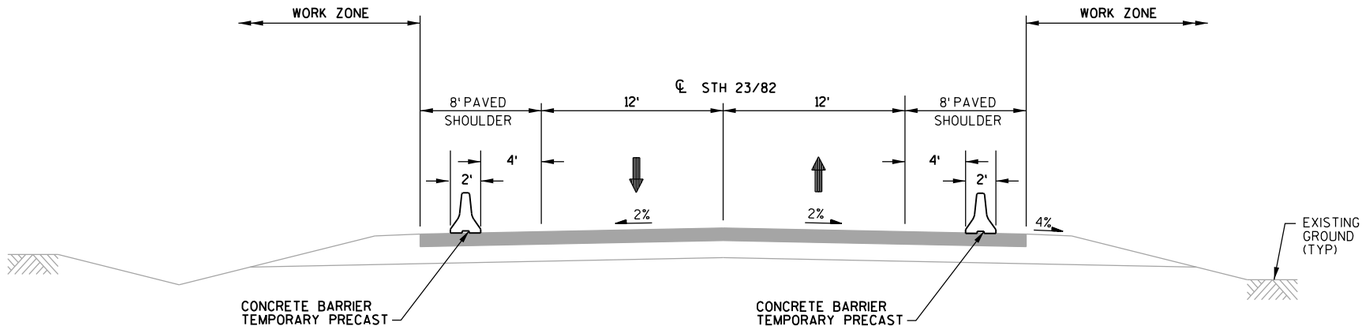
LEGEND

(Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (YELLOW)



TRAFFIC CONTROL TYPICAL SECTION - IH 39

STAGE 1
SOUTHBOUND - WORK AT STH 23/82 INTERCHANGE

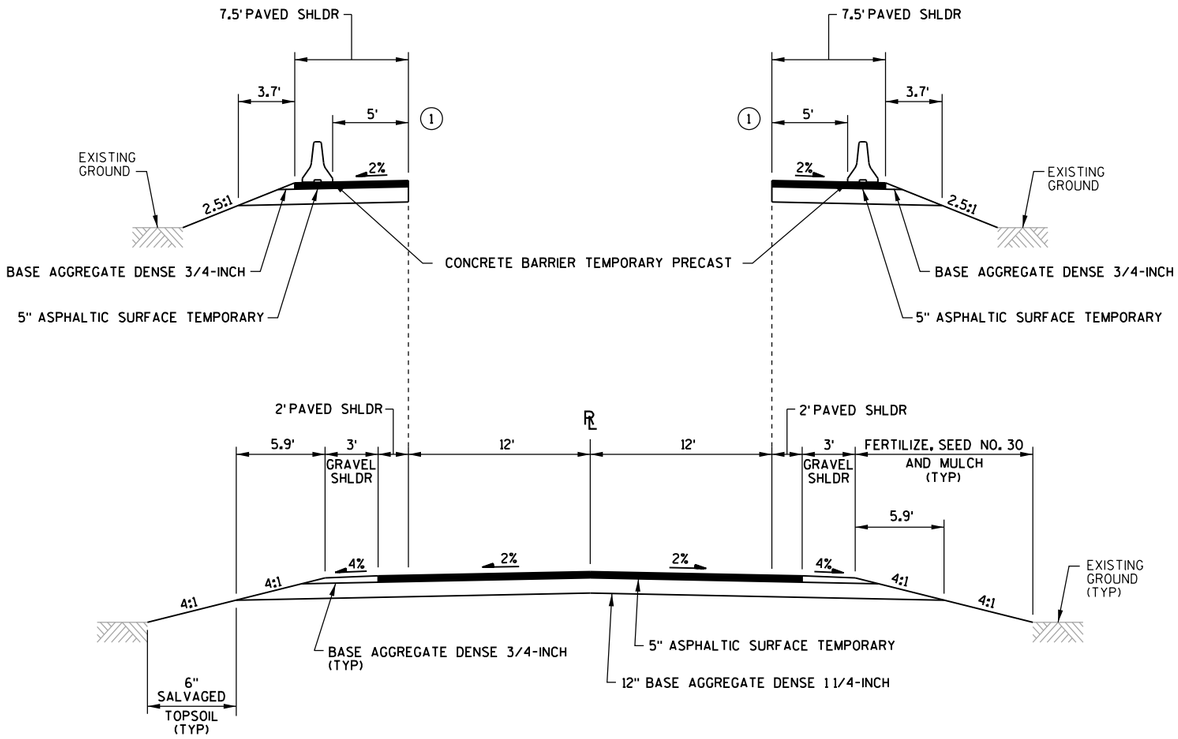


TRAFFIC CONTROL TYPICAL SECTION - STH 23/82

STAGES 1, 2A, 2B, AND 3
WORK AT STH 23/82 INTERCHANGE

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGES I	SHEET 31	E

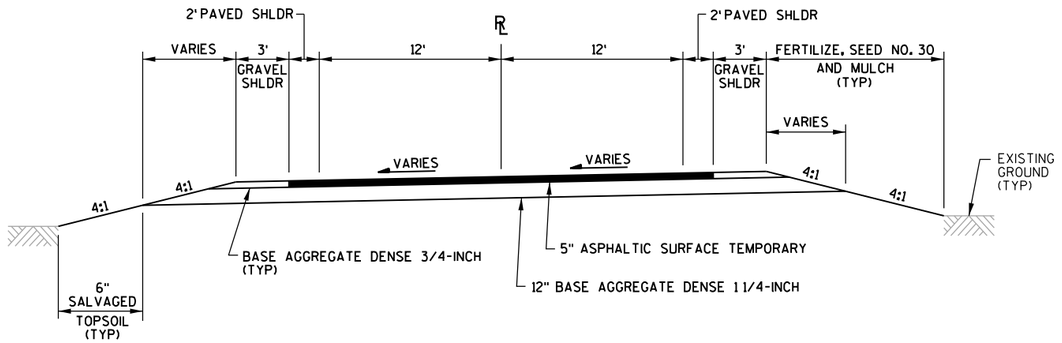
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PLOT TIME: 2:47:33 PM
PLOT SCALE: 1:10
WISDOT/CADDS SHEET 42



TYPICAL FINISHED SECTION - IH 39 TEMPORARY SOUTHBOUND BYPASS

STA 103SBT+56.00 - STA 173SBT+09.00

(1) STA 129SBT+00.00 - STA 156SBT+00.00 LT
STA 146SBT+00.00 - STA 164SBT+00.00 RT



TYPICAL SUPERELEVATED FINISHED SECTION - IH 39 TEMPORARY SOUTHBOUND BYPASS

STA 116SBT+29 - STA 131SBT+20
STA 155SBT+56 - STA 163SBT+95

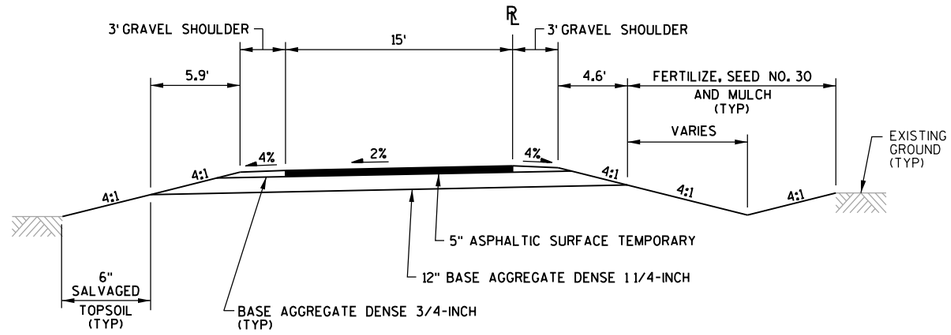
SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
116SBT+29	2.0	-2.0
123SBT+31	2.0	-2.0
123SBT+84	0.0	0.0
124SBT+37	-2.0	2.0
130SBT+14	-2.0	2.0
130SBT+67	-2.0	0.0
131SBT+20	-2.0	-2.0

SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
155SBT56	-2.0	-2.0
156SBT+09	-2.0	0.0
156SBT+62	-2.0	2.0
162SBT+89	-2.0	2.0
163SBT+42	0.0	0.0
163SBT+95	2.0	-2.0

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BATCH PRINT SHEET 3 OF 92
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PLOT TIME: 2:47:35 PM
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WISDOT/CADDS SHEET 42

LEGEND

(Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (YELLOW)

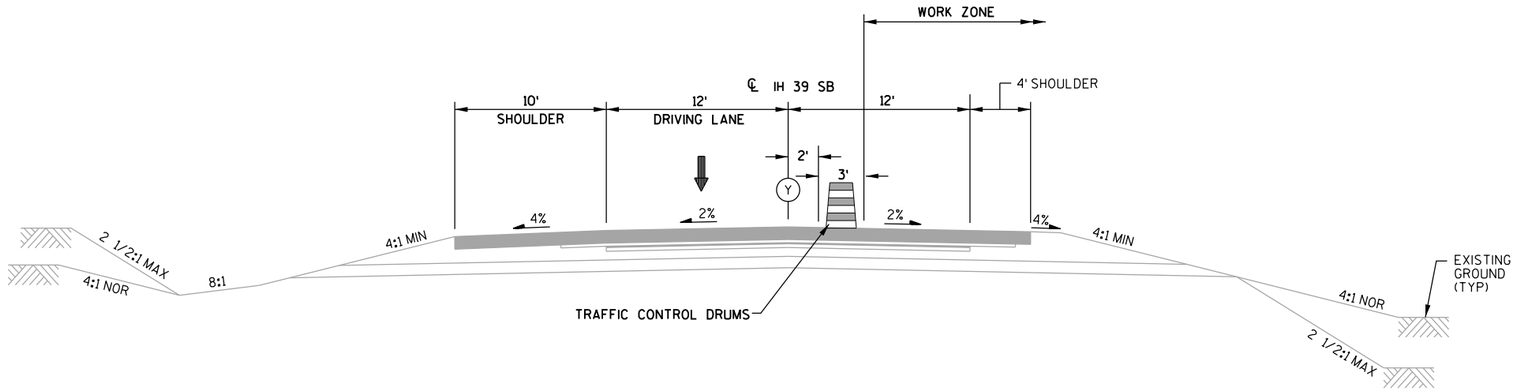


TYPICAL FINISHED SECTION - TEMPORARY IH 39 SB ON RAMP AND OFF RAMP

STA 645CT+17.67 - STA 651CT+51.41
STA 652DT+17.87 - STA 653DT+60.30

STH 23/82 INTERCHANGE STAGE 3 NOTES

1. SOUTHBOUND (TRAFFIC IN OUTSIDE LANE)
1.1 REMOVE TEMPORARY MEDIAN ROAD AND STRUCTURE



TRAFFIC CONTROL TYPICAL SECTION - IH 39

STAGE 3
SOUTHBOUND - WORK AT STH 23/82 INTERCHANGE

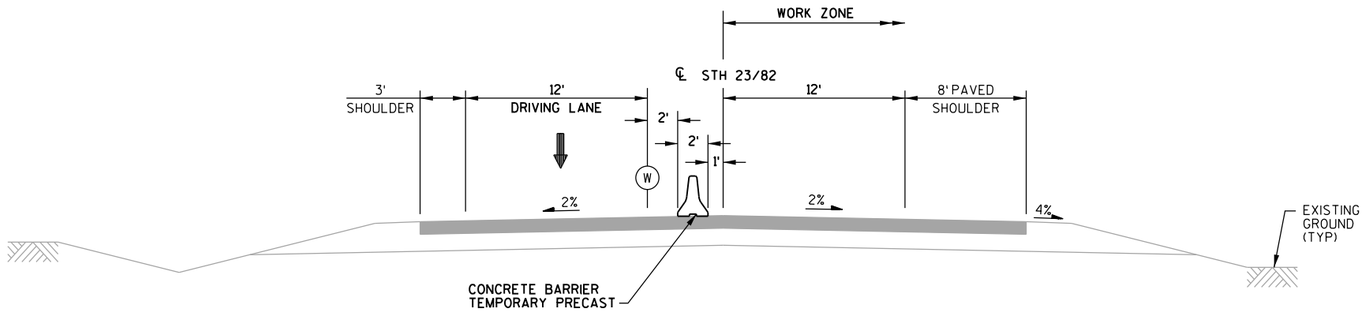
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGES I AND 3	SHEET 33	E

STH 23/82 INTERCHANGE STAGE 5A NOTES

1. TRAFFIC IN WESTBOUND LANE
1.1 PAINT SOUTH SIDE OF STRUCTURE (B-39-26)

LEGEND

(W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (WHITE)

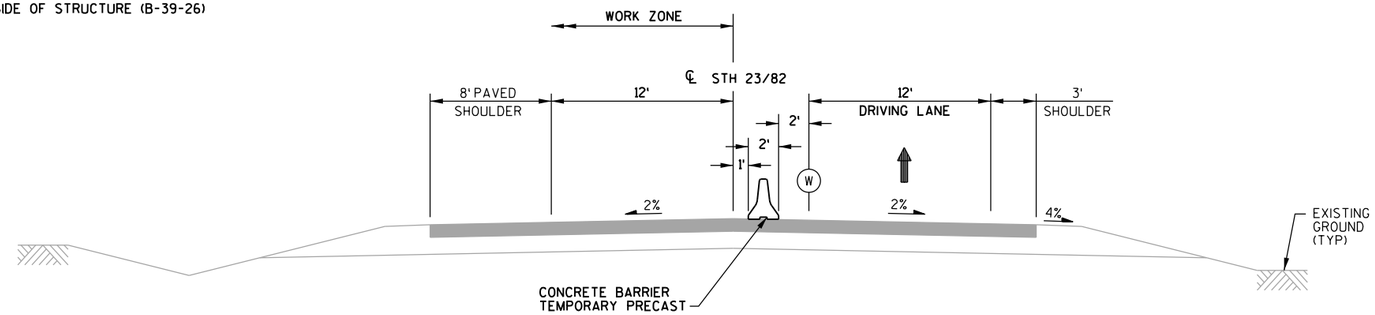


TRAFFIC CONTROL TYPICAL SECTION - STH 23/82

STAGE 5A
WORK AT STH 23/82 INTERCHANGE

STH 23/82 INTERCHANGE STAGE 5B NOTES

1. TRAFFIC IN EASTBOUND LANE
1.1 PAINT NORTH SIDE OF STRUCTURE (B-39-26)



TRAFFIC CONTROL TYPICAL SECTION - STH 23/82

STAGE 5B
WORK AT STH 23/82 INTERCHANGE

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGES 5A AND 5B	SHEET 34	E

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PLOT TIME: 2:47:40 PM
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WISDOT/CADDS SHEET 42

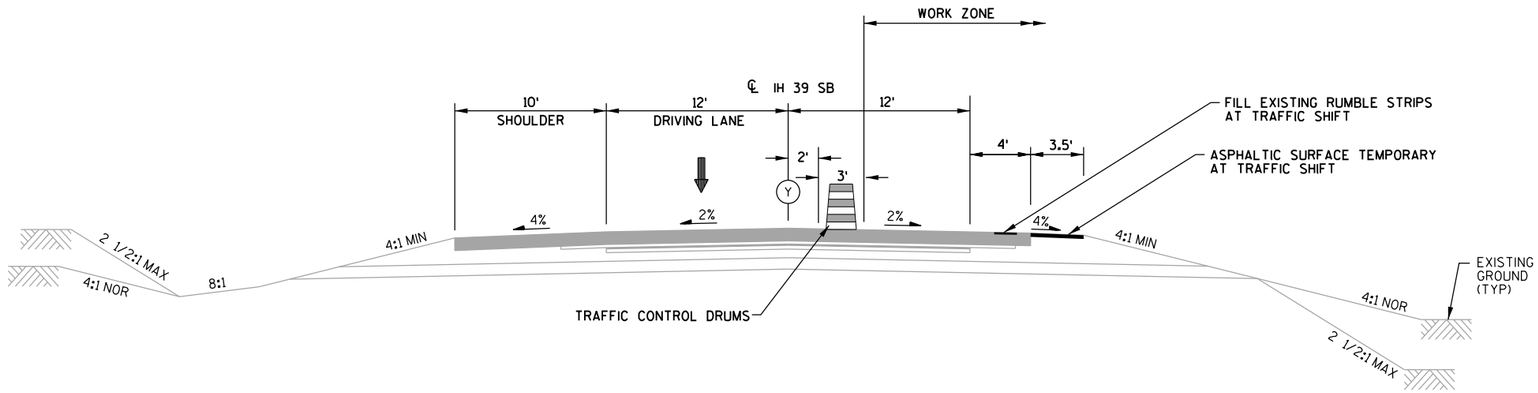
IH 39 SB AT FAWN COURT STAGE 1A NOTES

1. IH 39 (TRAFFIC IN OUTSIDE LANE)
1.1 FILL INSIDE LANE RUMBLE STRIPS
1.2 WIDEN INSIDE SHOULDERS

LEGEND

(W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (WHITE)

(Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (YELLOW)

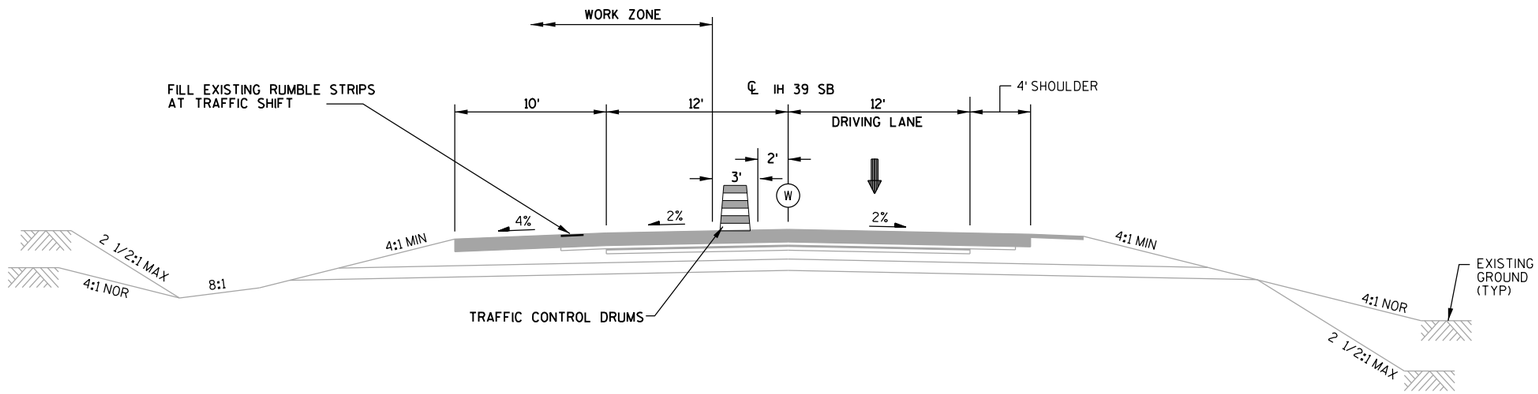


TRAFFIC CONTROL TYPICAL SECTION - IH 39

STAGE 1A
SOUTHBOUND - WORK AT STRUCTURE B-39-10 ONLY

IH 39 SB AT FAWN COURT STAGE 1B NOTES

1. IH 39 (TRAFFIC IN INSIDE LANE)
1.1 FILL OUTSIDE LANE RUMBLE STRIPS



TRAFFIC CONTROL TYPICAL SECTION - IH 39

STAGE 1B
SOUTHBOUND - WORK AT STRUCTURE B-39-10 ONLY

2

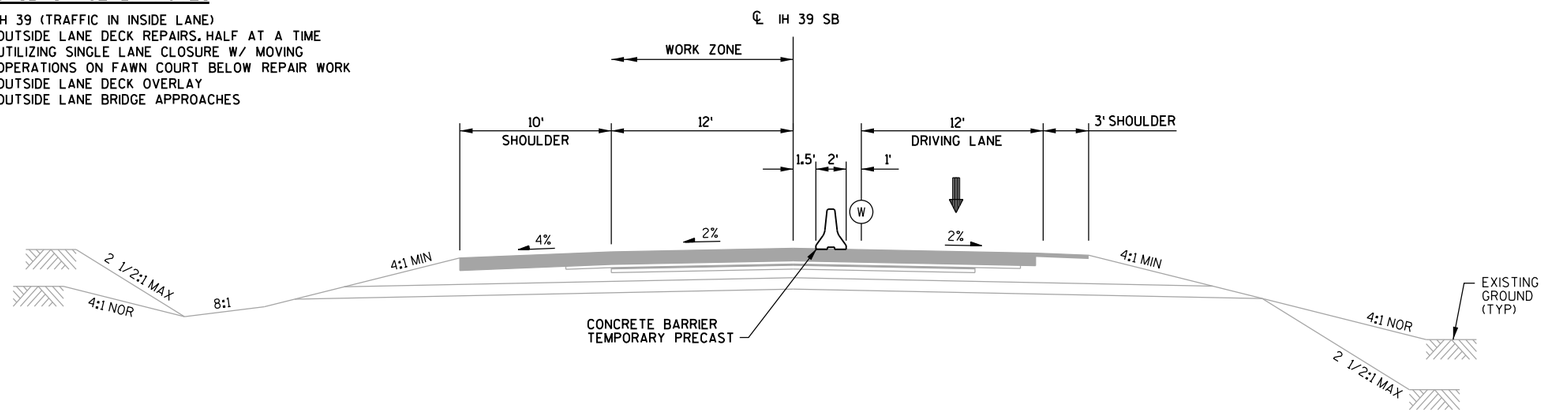
LEGEND

(W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (WHITE)

(Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (YELLOW)

IH 39 SB STAGE 2A NOTES

1. IH 39 (TRAFFIC IN INSIDE LANE)
1.1 OUTSIDE LANE DECK REPAIRS. HALF AT A TIME UTILIZING SINGLE LANE CLOSURE W/ MOVING OPERATIONS ON FAWN COURT BELOW REPAIR WORK
1.2 OUTSIDE LANE DECK OVERLAY
1.3 OUTSIDE LANE BRIDGE APPROACHES

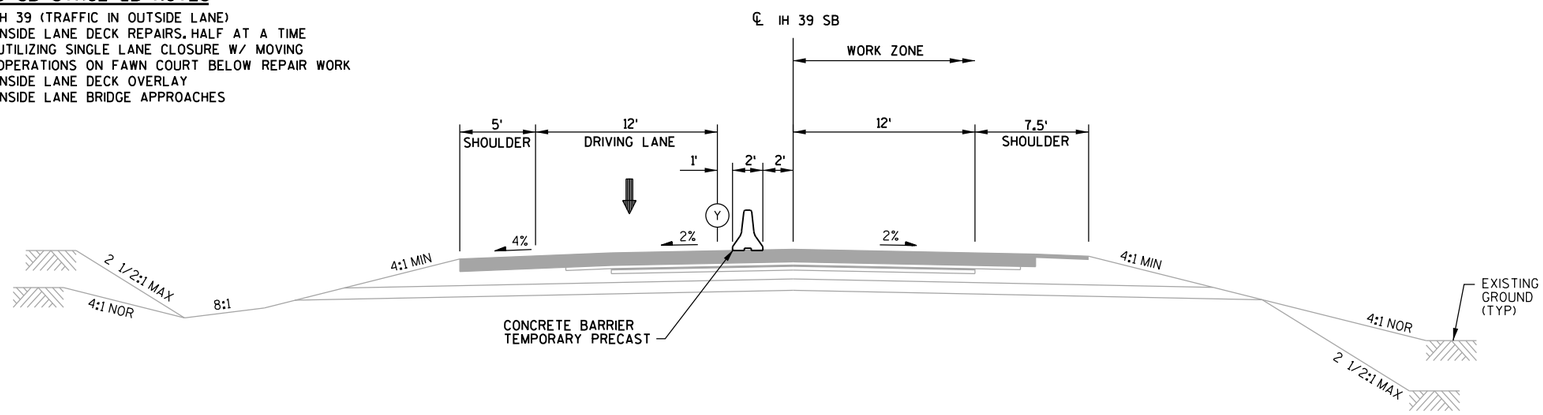


TRAFFIC CONTROL TYPICAL SECTION - IH 39

STAGE 2A
SOUTHBOUND - WORK AT STRUCTURE B-39-10 ONLY

IH 39 SB STAGE 2B NOTES

1. IH 39 (TRAFFIC IN OUTSIDE LANE)
1.1 INSIDE LANE DECK REPAIRS. HALF AT A TIME UTILIZING SINGLE LANE CLOSURE W/ MOVING OPERATIONS ON FAWN COURT BELOW REPAIR WORK
1.2 INSIDE LANE DECK OVERLAY
1.3 INSIDE LANE BRIDGE APPROACHES



TRAFFIC CONTROL TYPICAL SECTION - IH 39

STAGE 2B
SOUTHBOUND - WORK AT STRUCTURE B-39-10 ONLY

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 SB STAGE 2A AND 2B AT FAWN COURT	SHEET 36	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025001f_tc2ab_SB_IH39_Fawn.dgn
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WISDOT/CADDS SHEET 42

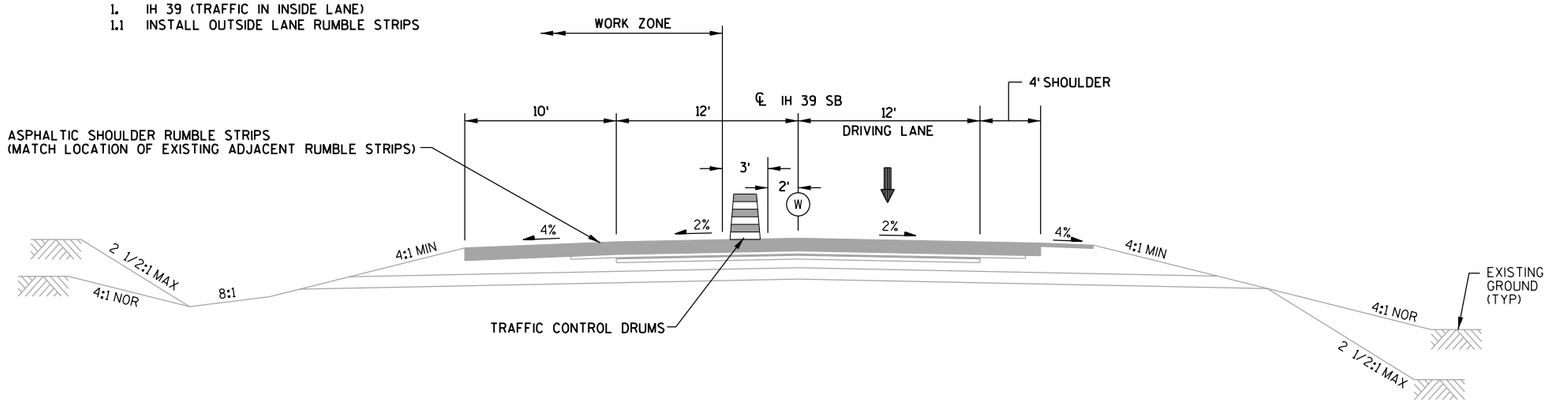
LEGEND

(W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (WHITE)

(Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (YELLOW)

IH 39 SB STAGE 3A NOTES

1. IH 39 (TRAFFIC IN INSIDE LANE)
1.1 INSTALL OUTSIDE LANE RUMBLE STRIPS

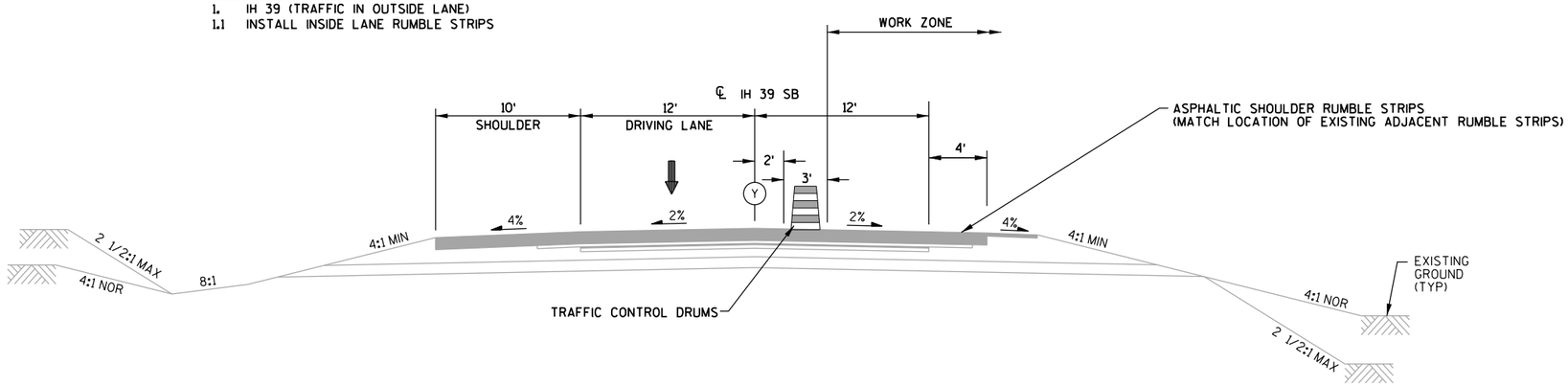


TRAFFIC CONTROL TYPICAL SECTION - IH 39

STAGE 3A
SOUTHBOUND - WORK AT STRUCTURE B-39-10 ONLY

IH 39 SB STAGE 3B NOTES

1. IH 39 (TRAFFIC IN OUTSIDE LANE)
1.1 INSTALL INSIDE LANE RUMBLE STRIPS



TRAFFIC CONTROL TYPICAL SECTION - IH 39

STAGE 3B
SOUTHBOUND - WORK AT STRUCTURE B-39-10 ONLY

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 SB STAGE 3A AND 3B AT FAWN COURT	SHEET 37	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025001g_tc3ab_SB_IH39_Fawn.dgn
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WISDOT/CADDS SHEET 42

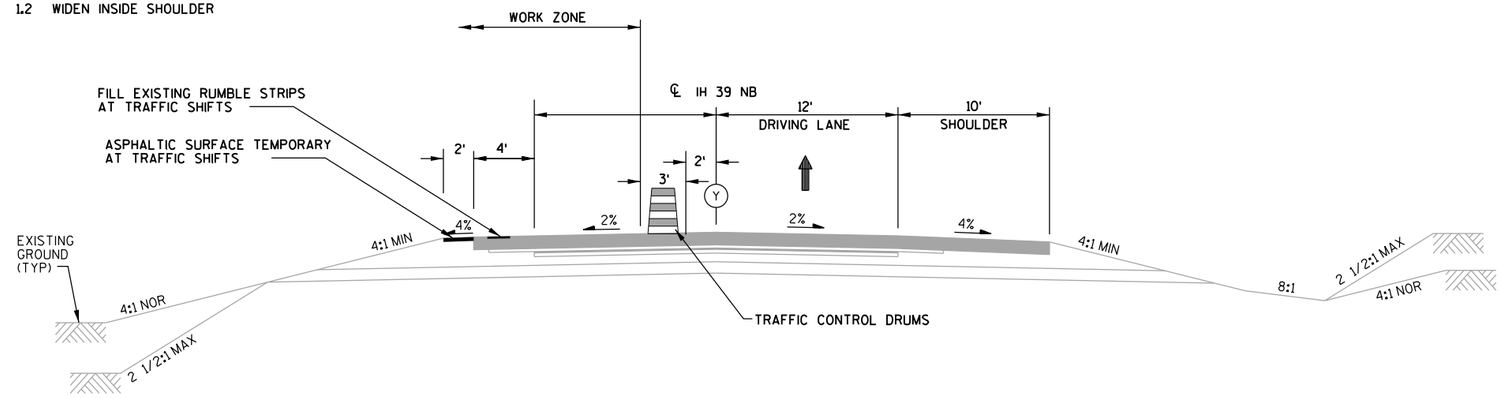
LEGEND

(W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (WHITE)

(Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (YELLOW)

IH 39 NB STAGE 1A NOTES

1. IH 39 (TRAFFIC IN OUTSIDE LANE)
1.1 FILL INSIDE LANE RUMBLE STRIPS
1.2 WIDEN INSIDE SHOULDER

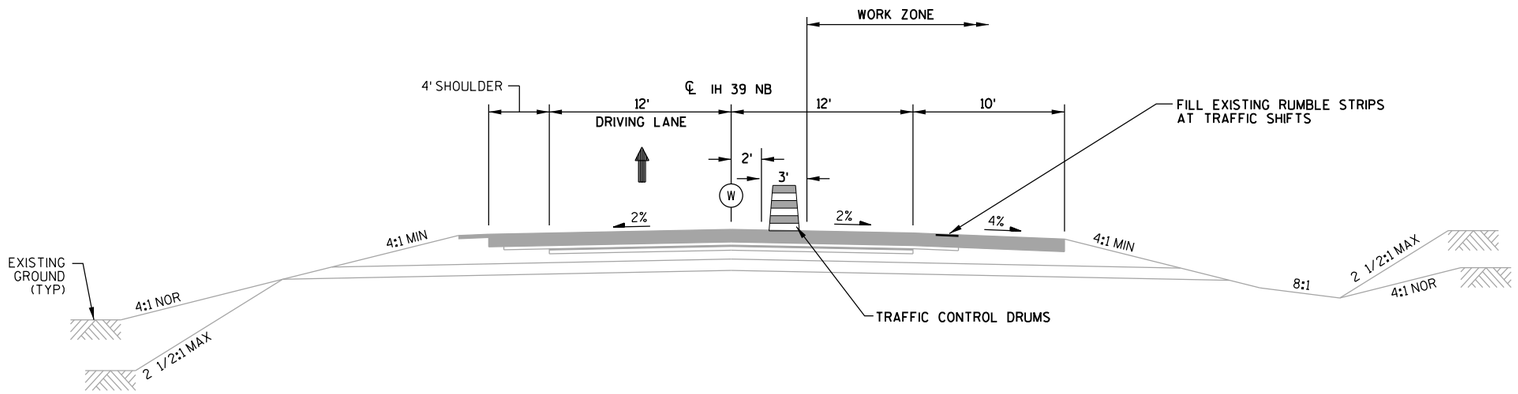


TRAFFIC CONTROL TYPICAL SECTION - IH 39

STAGE 1A
NORTHBOUND - WORK AT STRUCTURES B-39-26 AND B-39-27 ONLY

IH 39 SB STAGE 1B NOTES

1. IH 39 (TRAFFIC IN INSIDE LANE)
1.1 FILL OUTSIDE LANE RUMBLE STRIPS



TRAFFIC CONTROL TYPICAL SECTION - IH 39

STAGE 1B
NORTHBOUND - WORK AT STRUCTURES B-39-26 AND B-39-27 ONLY

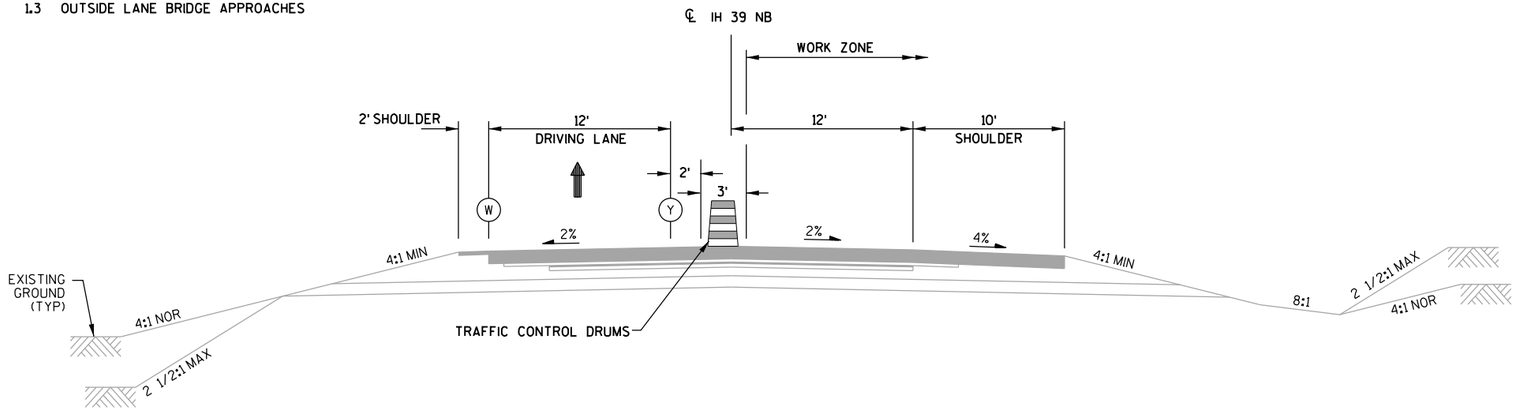
IH 39 NB STAGE 2A NOTES

1. IH 39 (TRAFFIC IN INSIDE LANE)
1.1 OUTSIDE LANE DECK REPAIRS
1.2 OUTSIDE LANE DECK POLYMER OVERLAY
1.3 OUTSIDE LANE BRIDGE APPROACHES

LEGEND

(W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (WHITE)

(Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (YELLOW)

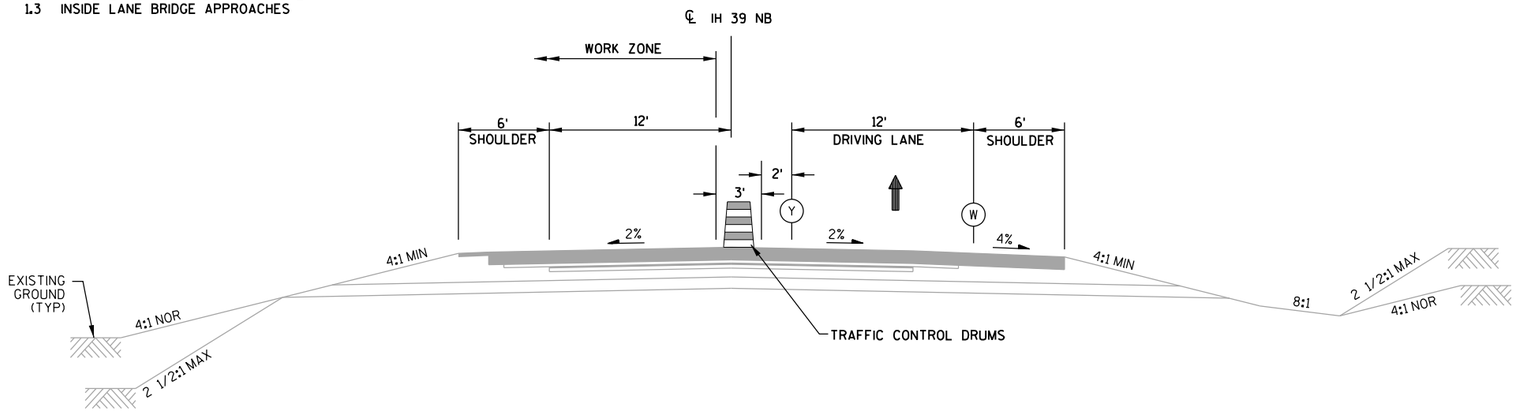


TRAFFIC CONTROL TYPICAL SECTION - IH 39

STAGE 2A
NORTHBOUND - WORK AT STRUCTURES B-39-26 AND B-39-27 ONLY

IH 39 NB STAGE 2B NOTES

1. IH 39 (TRAFFIC IN OUTSIDE LANE)
1.1 INSIDE LANE DECK REPAIRS
1.2 INSIDE LANE DECK POLYMER OVERLAY
1.3 INSIDE LANE BRIDGE APPROACHES



TRAFFIC CONTROL TYPICAL SECTION - IH 39

STAGE 2B
NORTHBOUND - WORK AT STRUCTURES B-39-26 AND B-39-27 ONLY

2

2

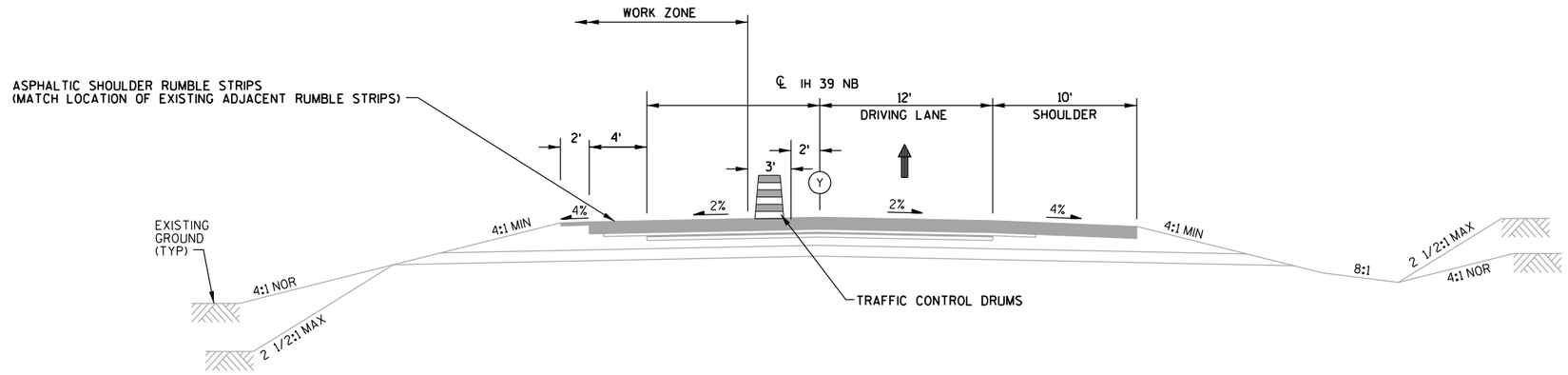
LEGEND

(W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (WHITE)

(Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (YELLOW)

IH 39 NB STAGE 3A NOTES

1. IH 39 (TRAFFIC IN OUTSIDE LANE)
1.1 INSTALL INSIDE LANE RUMBLE STRIPS

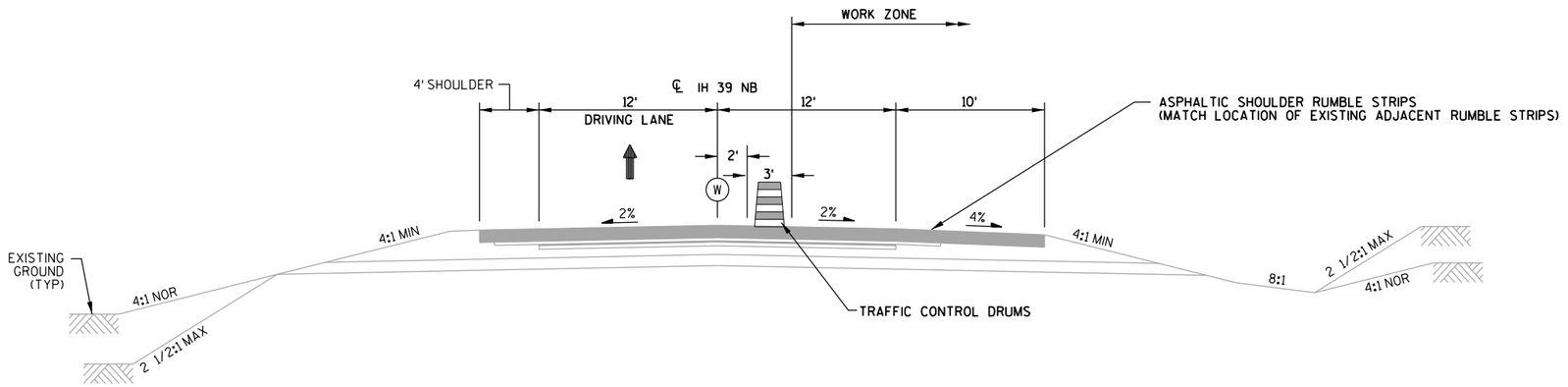


TRAFFIC CONTROL TYPICAL SECTION - IH 39

STAGE 3A
NORTHBOUND - WORK AT STRUCTURES B-39-26 AND B-39-27 ONLY

IH 39 SB STAGE 3B NOTES

1. IH 39 (TRAFFIC IN INSIDE LANE)
1.1 INSTALL OUTSIDE LANE RUMBLE STRIPS



TRAFFIC CONTROL TYPICAL SECTION - IH 39

STAGE 3B
NORTHBOUND - WORK AT STRUCTURES B-39-26 AND B-39-27 ONLY

2

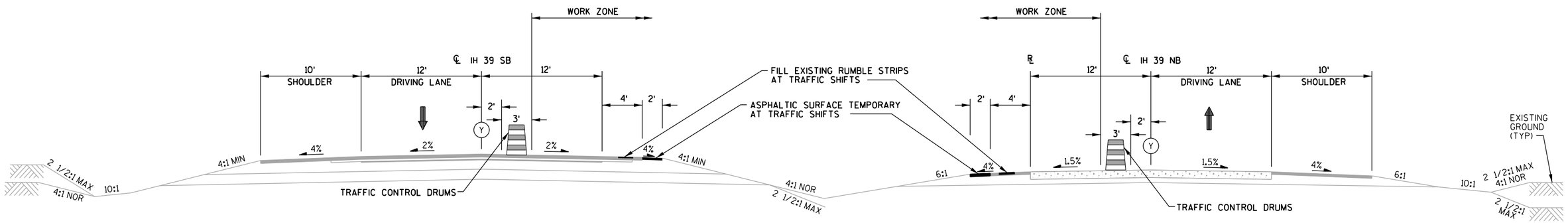
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LEGEND

(Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (YELLOW)

CTH M AND EDGEWOOD COURT STAGE 1 NOTES

1. IH 39 (TRAFFIC IN OUTSIDE LANES)
1.1 FILL INSIDE LANE RUMBLE STRIPS
1.2 WIDEN INSIDE SHOULDERS



TRAFFIC CONTROL TYPICAL SECTION - IH 39

STAGE 1
NORTHBOUND & SOUTHBOUND - WORK AT STRUCTURES B-39-28 AND B-39-29 ONLY

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT CTH M AND EDGEWOOD CT STAGE 1	SHEET 41	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025001k_tc1_cth_m.dgn
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WISDOT/CADDS SHEET 42

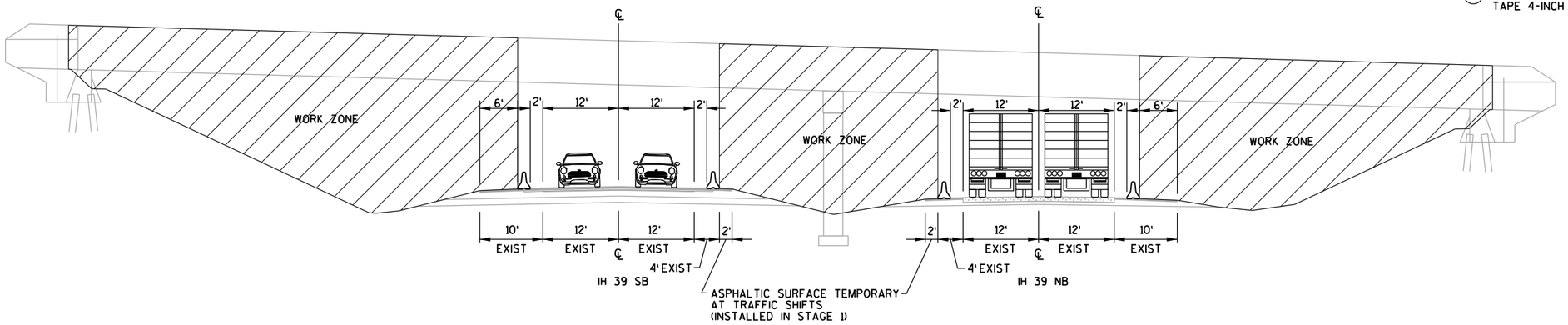
CTH M AND EDGEWOOD COURT STAGE 2 NOTES

1. IH 39 (IH 39 SHOULDER CLOSURES INSIDE & OUTSIDE)
1.1 JACK CTH M BRIDGE (B-39-28)

LEGEND

(W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (WHITE)

(Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (YELLOW)

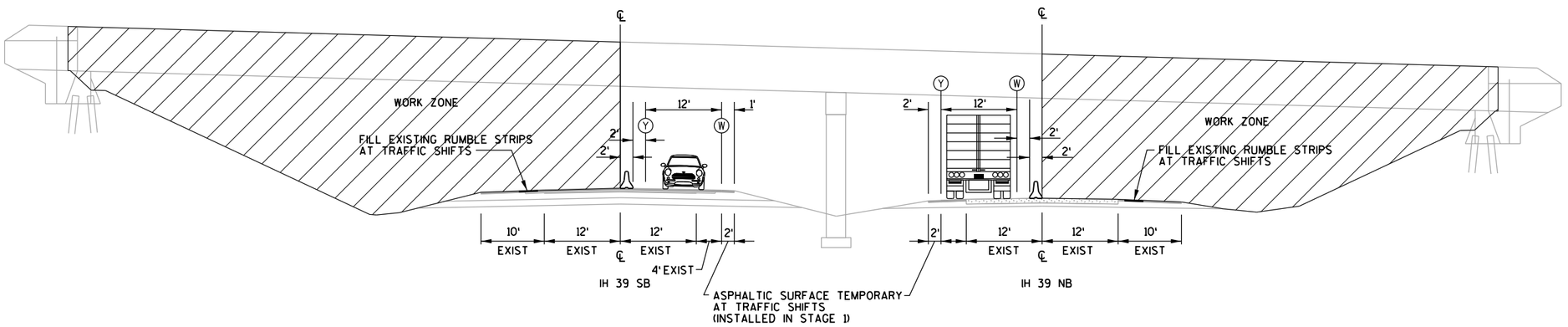


TRAFFIC CONTROL TYPICAL - IH 39

STAGE 2
NORTHBOUND & SOUTHBOUND - WORK AT STRUCTURES B-39-28 AND B-39-29 ONLY

CTH M AND EDGEWOOD COURT STAGE 3 NOTES

1. IH 39 (TRAFFIC IN INSIDE LANES)
1.1 PAINT OUTSIDE OF BRIDGE (B-39-28)
1.2 FILL OUTSIDE LANE RUMBLE STRIPS



TRAFFIC CONTROL TYPICAL - IH 39

STAGE 3
NORTHBOUND & SOUTHBOUND - WORK AT STRUCTURES B-39-28 AND B-39-29 ONLY

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT CTH M AND EDGEWOOD CT STAGES 2 AND 3	SHEET 42	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\0250011_tc2_cth_m.dgn
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WISDOT/CADDS SHEET 42

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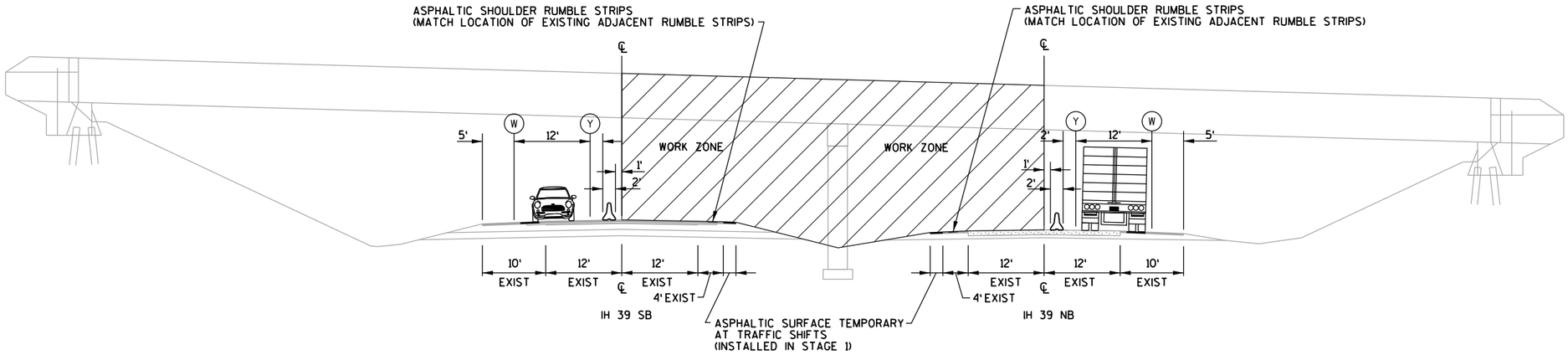
LEGEND

(W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (WHITE)

(Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (YELLOW)

CTH M AND EDGEWOOD COURT STAGE 4 NOTES

1. IH 39 (TRAFFIC IN OUTSIDE LANES)
1.1 PAINT INSIDE OF BRIDGE (B-39-28)
1.2 INSTALL INSIDE LANE RUMBLE STRIPS



TRAFFIC CONTROL TYPICAL - IH 39

STAGE 4
NORTHBOUND & SOUTHBOUND - WORK AT STRUCTURES B-39-28 AND B-39-29 ONLY

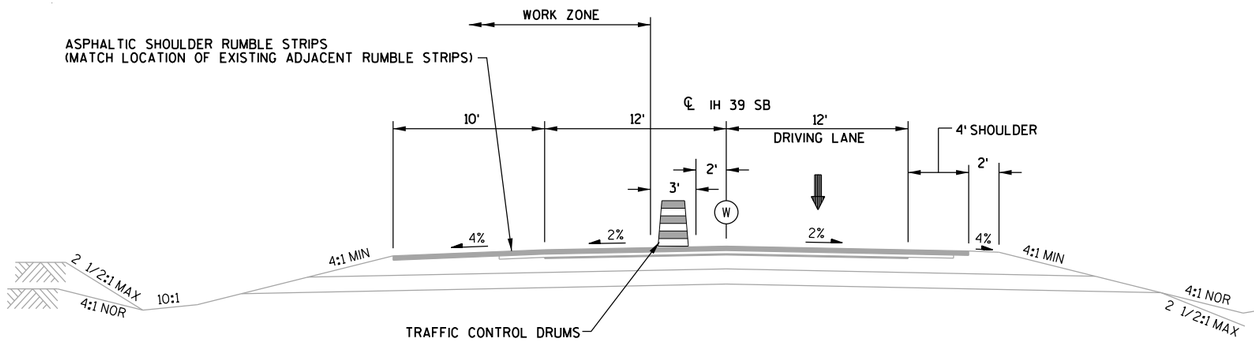
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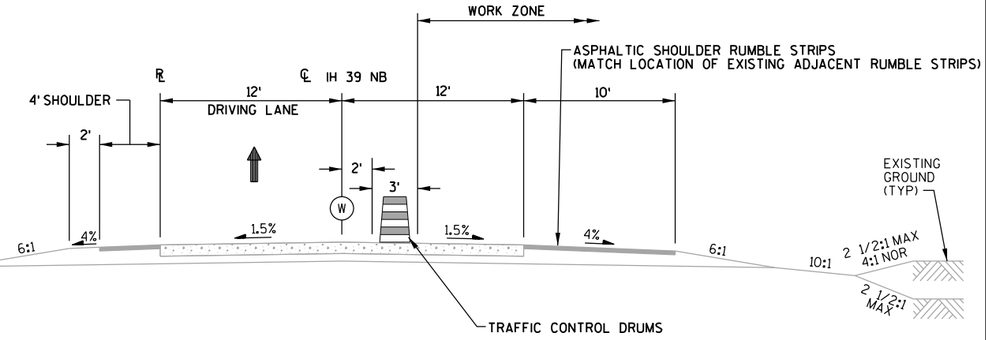
CTH M AND EDGEWOOD COURT STAGE 5 NOTES

1. IH 39 (TRAFFIC IN INSIDE LANES)
1.1 INSTALL OUTSIDE LANE RUMBLE STRIPS

LEGEND

(W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH EDGE LINE (WHITE)





TRAFFIC CONTROL TYPICAL SECTION - IH 39

STAGE 5
NORTHBOUND & SOUTHBOUND - WORK AT STRUCTURES B-39-28 AND B-39-29 ONLY

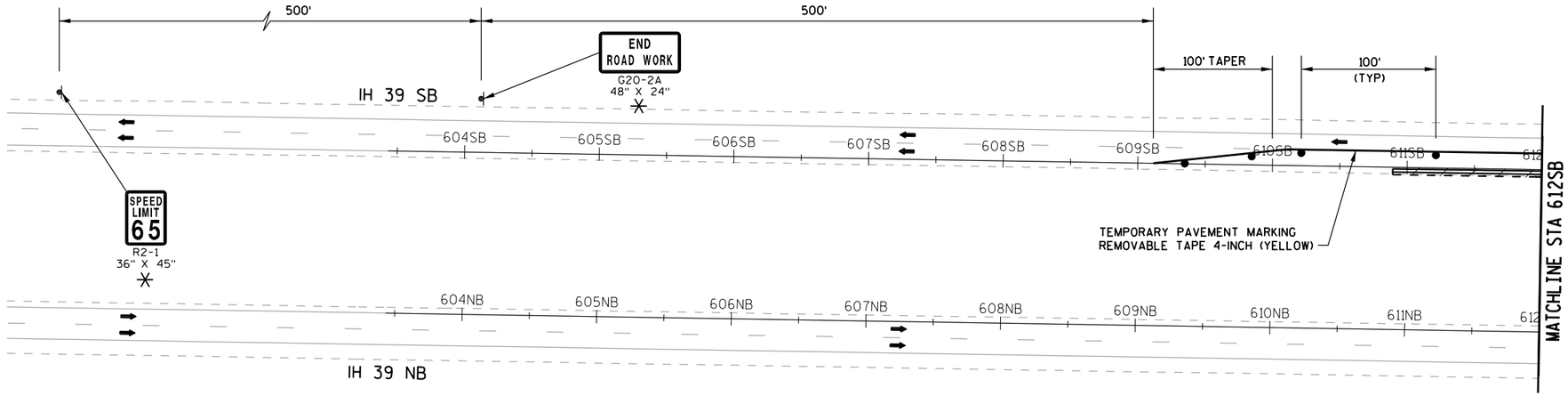
GENERAL NOTES FOR TRAFFIC CONTROL

1. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
3. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION AND SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
4. ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
5. ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.
6. CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

⚹ SIGNS TO REMAIN FOR STAGES 1, 2A, 2B, AND 3.

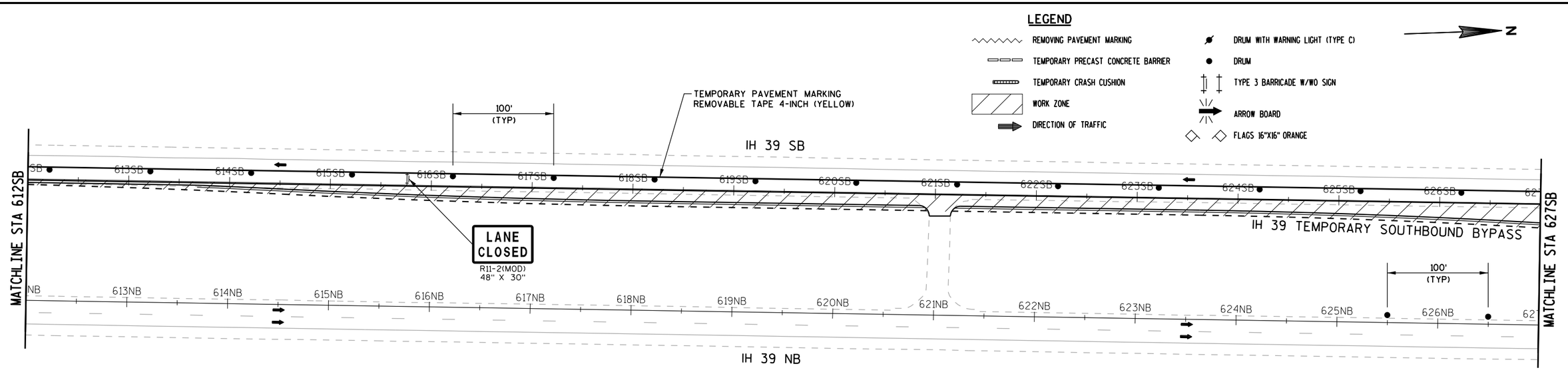
N

SCALE 0' 25' 50' 100'



STH 23/82 INTERCHANGE STAGE 1 NOTES

1. IH 39 SOUTHBOUND (TRAFFIC IN OUTSIDE LANE)
1.1 REMOVE BEAMGUARD (STH 23/82)
1.2 CONSTRUCT MEDIAN TEMPORARY ROAD INCLUDING TEMPORARY BRIDGE
1.3 CONSTRUCT TEMPORARY IH 39 SOUTHBOUND ENTRANCE AND EXIT RAMPS



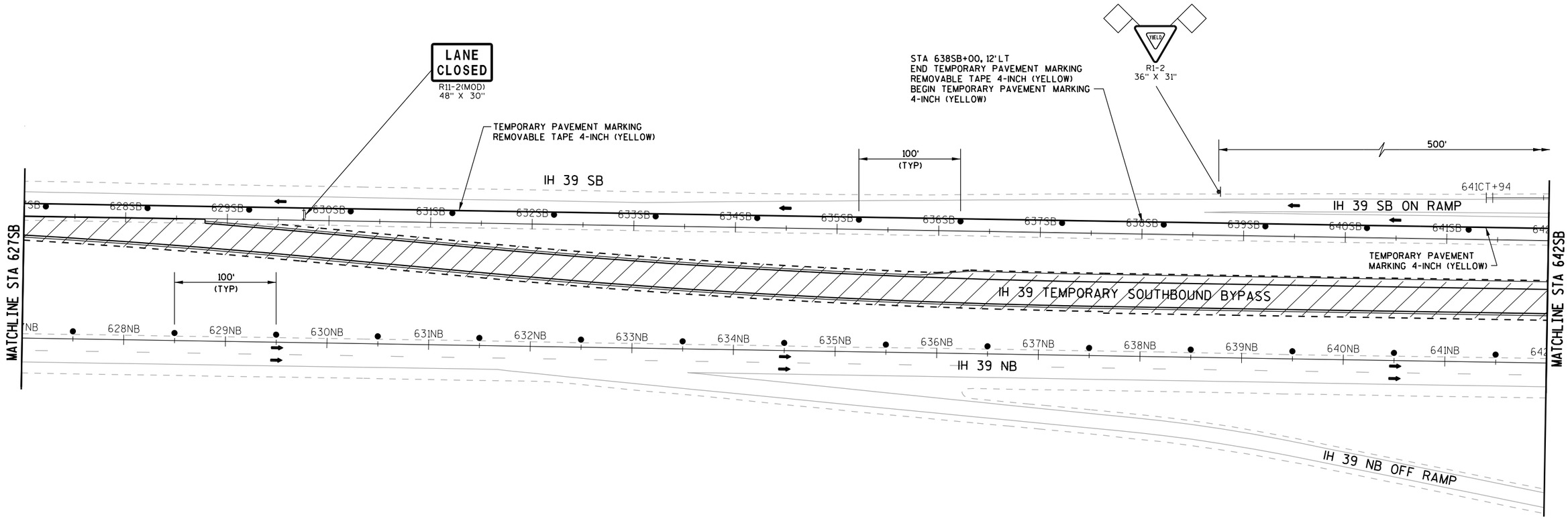
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PLOT DATE: 1/29/2015
PLOT TIME: 2:48:18 PM
PLOT SCALE: 1:100

2

N

0' 25' 50' 100'
SCALE



LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE I	SHEET 46	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025003_tcl.dgn
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PLOT DATE: 1/29/2015
PLOT TIME: 2:48:20 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

2

SIGNS TO REMAIN FOR STAGES 1, 2A, 2B, AND 3.

N

SCALE 0' 25' 50' 100'

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

STH 23/82

LEFT SHOULDER CLOSED AHEAD W21-5B

W03-2

500'

LANE CLOSED R11-2(MOD) 48" X 30"

25' (TYP)

IH 39 SB ON RAMP

643CT 644CT 645CT 646CT 647CT 648CT 649CT 650CT 651CT 652CT 653DT 654DT 655DT 656DT

IH 39 SB OFF RAMP

TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

100' (TYP)

B-39-9

IH 39 SB

MATCHLINE STA 642SB

643SB 644SB 645SB 646SB 647SB 648SB 649SB 650SB 651SB 652SB 653SB 654SB 655SB 656SB

MATCHLINE STA 657SB

IH 39 TEMPORARY SOUTHBOUND BYPASS

643NB 644NB 645NB 646NB 647NB 648NB 649NB 650NB 651NB 652NB 653NB 654NB 655NB 656NB

IH 39 NB

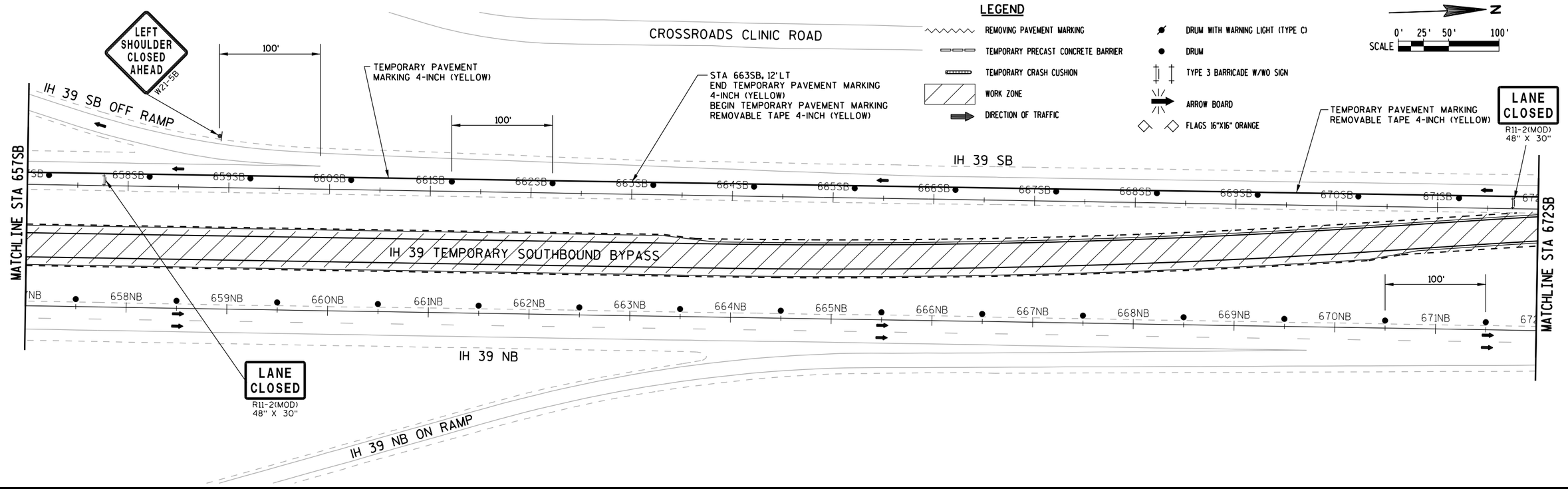
B-39-26

IH 39 NB OFF RAMP

IH 39 NB ON RAMP

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 1	SHEET 47	E

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PLOT TIME: 2:48:22 PM
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WISDOT/CADDS SHEET 42



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE I	SHEET 48	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025005_tcl.dgn
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PLOT DATE: 1/29/2015
PLOT TIME: 2:48:24 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

SIGNS TO REMAIN FOR STAGES 1, 2A, 2B AND 3.

N

SCALE 0' 25' 50' 100'

800' BUFFER SPACE | 880' TRANSITION AREA | 1000'

STA 688SB+58 - STA 697SB+38
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER 4-INCH CENTERLINE SKIPS)

100' (TYP) | 50' (TYP) | 300' | 475'

IH 39 SB

MATCHLINE STA 687SB

SB 688SB 689SB 690SB 691SB 692SB 693SB 694SB 695SB 696SB 697SB 698SB 699SB 700SB 701SB 70

TEMPORARY PAVEMENT MARKING REMOVABLE
TAPE 4-INCH (YELLOW)

NB 688NB 689NB 690NB 691NB 692NB 693NB 694NB 695NB 696NB 697NB 698NB 699NB 700NB 701NB 70

IH 39 NB

MATCHLINE STA 702SB

1000' | 750' | 850' | 2100' | 500' | 500'

475' | 25' | 425' | 500'

IH 39 SB

SB 703SB 704SB

DRUMS SPACED @ 10' INTERVALS AS
NEEDED IN FRONT OF ARROW BOARD

MATCHLINE STA 702SB

NB 703NB 704NB

IH 39 NB

ROAD WORK 1 MILE
W20-1

W04-2L

LEFT LANE CLOSED 1500 FT
W20-5

SPEED LIMIT 55
R2-1
36" X 45"

LEFT LANE CLOSED 1/2 MILE
W20-5

SPEED LIMIT 55
W3-5
36" X 36"

FINES DOUBLE IN WORK ZONES
Give 'em a BRAKE SLOW DOWN
W21-62
96" X 48"

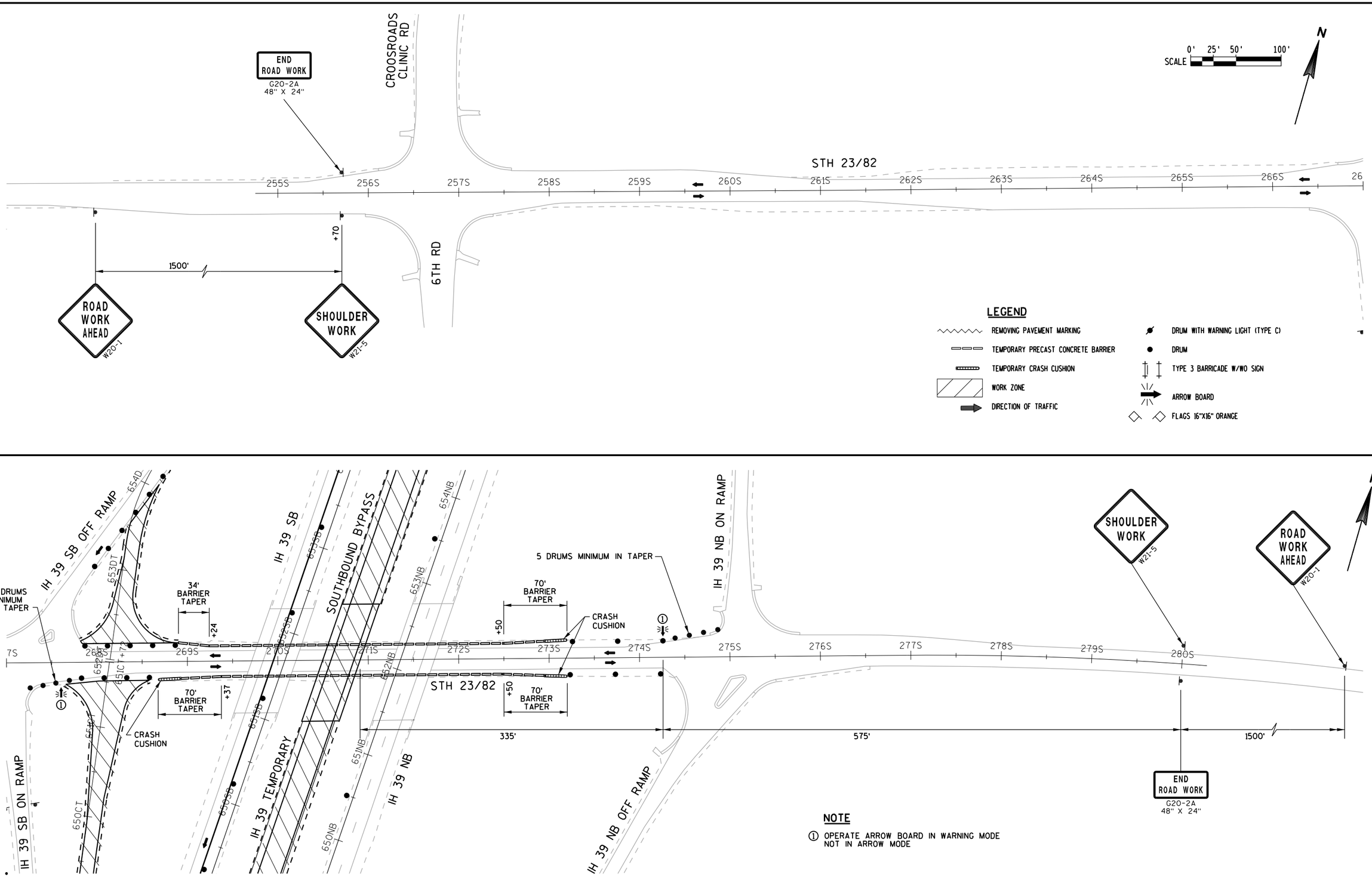
ROAD WORK NEXT 3 MILES
G20-1
60" X 24"

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 1	SHEET 49	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025006_tcl.dgn
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PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE I	SHEET 50	E

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PLOT DATE: 1/29/2015
PLOT TIME: 2:48:28 PM
PLOT SCALE: 1:100

2

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

N

SCALE 0' 25' 50' 100'

CROSSROADS CLINIC RD

STH 23/82

ROAD CLOSED 500 FT W20-3

R11-3 60" X 30" ROAD CLOSED 0.2 MILES AHEAD LOCAL TRAFFIC ONLY
TYPE III BARRICADE

R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE

MATCHLINE STA 635C

R11-3 60" X 30" ROAD CLOSED 4 MILES AHEAD LOCAL TRAFFIC ONLY
TYPE III BARRICADE

CTH J

ROAD WORK 1000 FT W20-1

ROAD CLOSED 500 FT W20-3

FERN RD

500'

R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE

ROAD CLOSED 500 FT W20-3

CROSSROADS CLINIC RD

R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE

IH 39 SB

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE I	SHEET 51	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025008_tcl.dgn
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PLOT TIME: 2:48:31 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

FOR ADDITIONAL TRAFFIC CONTROL SIGNING
SEE "TRAFFIC CONTROL -
STH 23/82 INTERCHANGE STAGE 1"

STA 611SB+00 - STA 618SB+00
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER CENTERLINE SKIPS)

STA 609SB+10 - STA 641SB+50
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)
INSTALLED IN STAGE 1

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

N

SCALE 0' 25' 50' 100'

SIGNS TO REMAIN FOR STAGES 2A AND 2B.

STA 618SB+19 - STA 630SB+82, 24'LT
REMOVING PAVEMENT MARKING
EDGELINE (WHITE)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)

100'
(TYP)

IH 39 SB

C RAMP

IH 39 TEMPORARY SOUTHBOUND BYPASS

TEMPORARY PAVEMENT MARKING 4-INCH
(YELLOW)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH
(DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)

IH 39 NB

MATCHLINE STA 624SB

STH 23/82 INTERCHANGE STAGE 2A NOTES

1. IH 39 SOUTHBOUND (TRAFFIC IN TEMPORARY MEDIAN LANES)
1.1 CONSTRUCT IH 39 SOUTHBOUND ENTRANCE AND EXIT RAMPS

STA 618SB+19 - STA 630SB+82, 24'LT
REMOVING PAVEMENT MARKING
EDGELINE (WHITE)

R1-2
36" X 31"

STA 624SB+00 - STA 641SB+00
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER CENTERLINE SKIPS)

STA 609SB+10 - STA 641SB+50
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)
INSTALLED IN STAGE 1

W03-2

N

STA 638SB+00
END TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)
BEGIN TEMPORARY PAVEMENT MARKING
4-INCH (WHITE)

500'

50'
(TYP)

100'
(TYP)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 8-INCH (WHITE)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)

IH 39 SB

C RAMP

MATCHLINE STA 624SB

MATCHLINE STA 639SB

STA 625SB+00
END TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)
BEGIN TEMPORARY PAVEMENT MARKING
4-INCH (WHITE)

TEMPORARY PAVEMENT MARKING 8-INCH
(WHITE)

TEMPORARY PAVEMENT MARKING 4-INCH
(YELLOW)

TEMPORARY PAVEMENT MARKING 4-INCH
(WHITE)

TEMPORARY PAVEMENT MARKING 4-INCH
(DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)

IH 39 TEMPORARY SOUTHBOUND BYPASS

ANCHORED

IH 39 NB

IH 39 NB OFF RAMP

STA 625SB+00
END TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)
BEGIN TEMPORARY PAVEMENT MARKING
4-INCH (YELLOW)

100'
(TYP)

W04-1

STAY
IN
LANE
R4-9
48" X 60"

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 2A	SHEET 52	E

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2

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

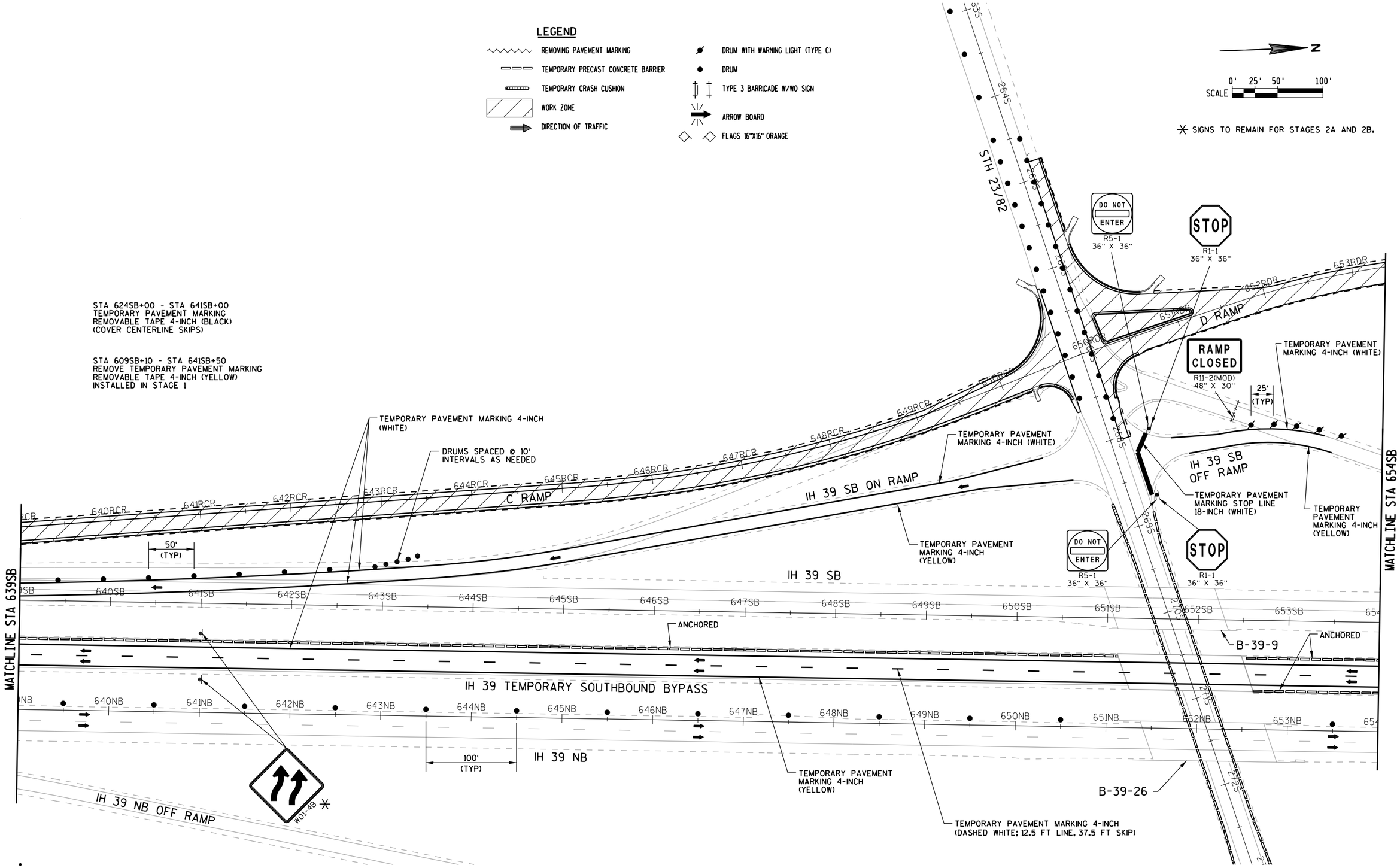
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SCALE 0' 25' 50' 100'

SIGNS TO REMAIN FOR STAGES 2A AND 2B.

STA 624SB+00 - STA 641SB+00
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER CENTERLINE SKIPS)

STA 609SB+10 - STA 641SB+50
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)
INSTALLED IN STAGE 1



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 2A	SHEET 53	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025010_tc2a.dgn
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PLOT TIME: 2:48:36 PM
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WISDOT/CADDS SHEET 42

2

N

SCALE 0' 25' 50' 100'

SIGNS TO REMAIN FOR STAGES 2A AND 2B.

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

MATCHLINE STA 654SB

D RAMP

654RDR 655RDR 656RDR 657RDR 658RDR 659RDR 660RDR 661RDR 662RDR 663RDR 664RDR 665RDR 666RDR 667RDR 668RDR

CROSSROADS CLINIC RD

STA 661SB+50 - STA 680SB+38
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER 4-INCH CENTERLINE SKIPS)

STA 661SB+50 - STA 697SB+38
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)
INSTALLED IN STAGE 1

ROAD CLOSED
R11-2
48" X 30"

IH 39 SB OFF RAMP

IH 39 SB

50' (TYP)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)

W5-52R
18" X 54"

655SB 656SB 657SB 658SB 659SB 660SB 661SB 662SB 663SB 664SB 665SB 666SB 667SB 668SB

ANCHORED

CRASH CUSHION

IH 39 TEMPORARY SOUTHBOUND BYPASS

655NB 656NB 657NB 658NB 659NB 660NB 661NB 662NB 663NB 664NB 665NB 666NB 667NB 668NB

TEMPORARY PAVEMENT MARKING 4-INCH
(WHITE)

TEMPORARY PAVEMENT MARKING 4-INCH
(YELLOW)

TEMPORARY PAVEMENT MARKING 4-INCH
(DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)

100' (TYP)

MATCHLINE STA 669SB

MATCHLINE STA 669SB

D RAMP

670RDR 671RDR

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 8-INCH (WHITE)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)

W5-52R
18" X 54"

EXIT
E5-1
72" X 60"

SEE "MOUNTING DETAIL FOR MOVABLE EXIT SIGN" ON STANDARD DETAIL DRAWING "TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE"

STA 661SB+50 - STA 680SB+38
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER 4-INCH CENTERLINE SKIPS)

N

200' TAPER

FOR ADDITIONAL TRAFFIC CONTROL SIGNING SEE "TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 1"

500' BUFFER SPACE

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)

500'

50' (TYP)

STA 661SB+50 - STA 697SB+38
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)
INSTALLED IN STAGE 1

CRASH CUSHION

IH 39 SB

670SB 671SB 672SB 673SB 674SB 675SB 676SB 677SB 678SB 679SB 680SB

IH 39 TEMPORARY SOUTHBOUND BYPASS

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY PAVEMENT MARKING 8-INCH
(WHITE)

TEMPORARY PAVEMENT MARKING 4-INCH
(WHITE)

TEMPORARY PAVEMENT MARKING 4-INCH
(YELLOW)

STA 675SB+00
END TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)
BEGIN TEMPORARY PAVEMENT MARKING
4-INCH (WHITE)

STA 677SB+00
END TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)
BEGIN TEMPORARY PAVEMENT MARKING
4-INCH (YELLOW)

STAY IN LANE
R4-9
48" X 60"

W01-4B

ANCHORED

TEMPORARY PAVEMENT MARKING 4-INCH
(WHITE)

670NB 671NB 672NB 673NB 674NB 675NB 676NB 677NB 678NB 679NB 680NB

W5-52L
18" X 54"

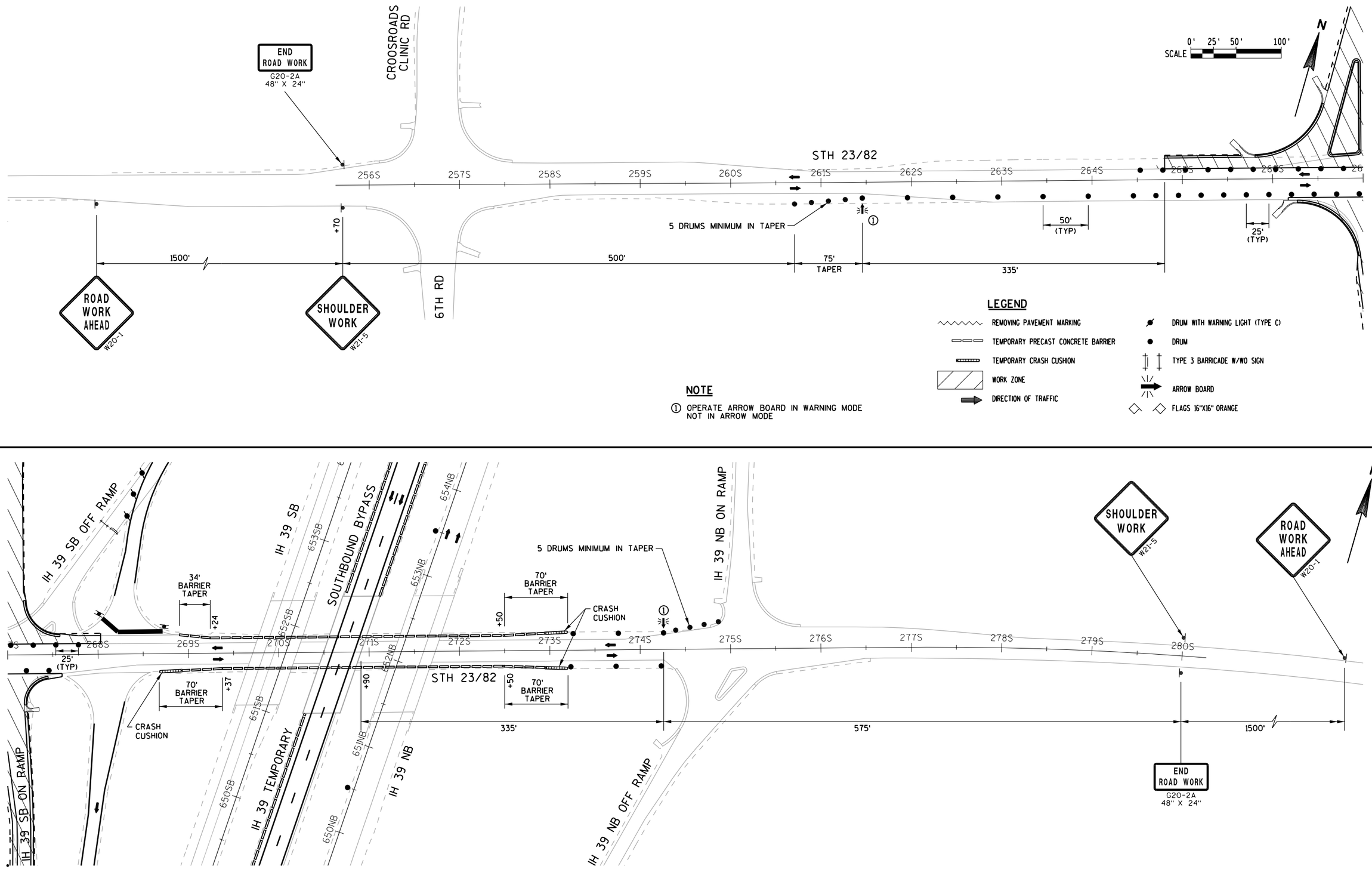
CRASH CUSHION

100' (TYP)

IH 39 NB

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 2A	SHEET 54	E

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PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 2A	SHEET 55	E

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PLOT SCALE: 1:100

2

FOR ADDITIONAL TRAFFIC CONTROL SIGNING
SEE "TRAFFIC CONTROL -
STH 23/82 INTERCHANGE STAGE 1"

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE
- SIGN TO REMAIN INSTALLED IN STAGE 2A

N

SCALE 0' 25' 50' 100'

IH 39 SB

100' (TYP)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)
(INSTALLED IN STAGE 2A)

610SB 611SB 612SB 613SB 614SB 615SB 616SB 617SB 618SB 619SB 620SB 621SB 622SB 623SB

C RAMP

619RCR 620RCR 621RCR 622RCR 623RCR

IH 39 TEMPORARY SOUTHBOUND BYPASS

TEMPORARY PAVEMENT MARKING 4-INCH
(YELLOW) (INSTALLED IN STAGE 2A)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)
(INSTALLED IN STAGE 2A)

610NB 611NB 612NB 613NB 614NB 615NB 616NB 617NB 618NB 619NB 620NB 621NB 622NB 623NB

IH 39 NB

MATCHLINE STA 624SB

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH
(DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)
(INSTALLED IN STAGE 2A)

STH 23/82 INTERCHANGE STAGE 2B NOTES

1. SOUTHBOUND (TRAFFIC IN TEMPORARY MEDIAN LANES)
1.1 CONSTRUCT IH 39 SOUTHBOUND LANES AND STRUCTURE

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)
(INSTALLED IN STAGE 2A)

R1-2
36" X 31"

100' (TYP)

500'

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 8-INCH (WHITE)
(INSTALLED IN STAGE 2A)

STA 628SB+19 - STA 638SB+00
STA 629SB+02 - STA 638SB+00
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)
(INSTALLED IN STAGE 2A)

W03-2

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)

DRUMS SPACED @ 10'
INTERVALS AS NEEDED

625RCR 626RCR 627RCR 628RCR 629RCR 630RCR 631RCR 632RCR 633RCR 634RCR 635RCR 636RCR 637RCR 638RCR

IH 39 SB

C RAMP

625SB 626SB 627SB 628SB 629SB 630SB 631SB 632SB 633SB 634SB 635SB 636SB 637SB 638SB

MATCHLINE STA 624SB

IH 39 TEMPORARY SOUTHBOUND BYPASS

ANCHORED
(INSTALLED IN STAGE 2A)

100' (TYP)

TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
(INSTALLED IN STAGE 2A)

TEMPORARY PAVEMENT MARKING 4-INCH
(YELLOW) (INSTALLED IN STAGE 2A)

TEMPORARY PAVEMENT MARKING 4-INCH
(WHITE) (INSTALLED IN STAGE 2A)

625NB 626NB 627NB 628NB 629NB 630NB 631NB 632NB 633NB 634NB 635NB 636NB 637NB 638NB

IH 39 NB

IH 39 NB OFF RAMP

MATCHLINE STA 639SB

W04-1

STAY
IN
LANE
R4-9
48" X 60"

TEMPORARY PAVEMENT MARKING 4-INCH
(DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)
(INSTALLED IN STAGE 2A)

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 2B	SHEET 56	E

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2

2

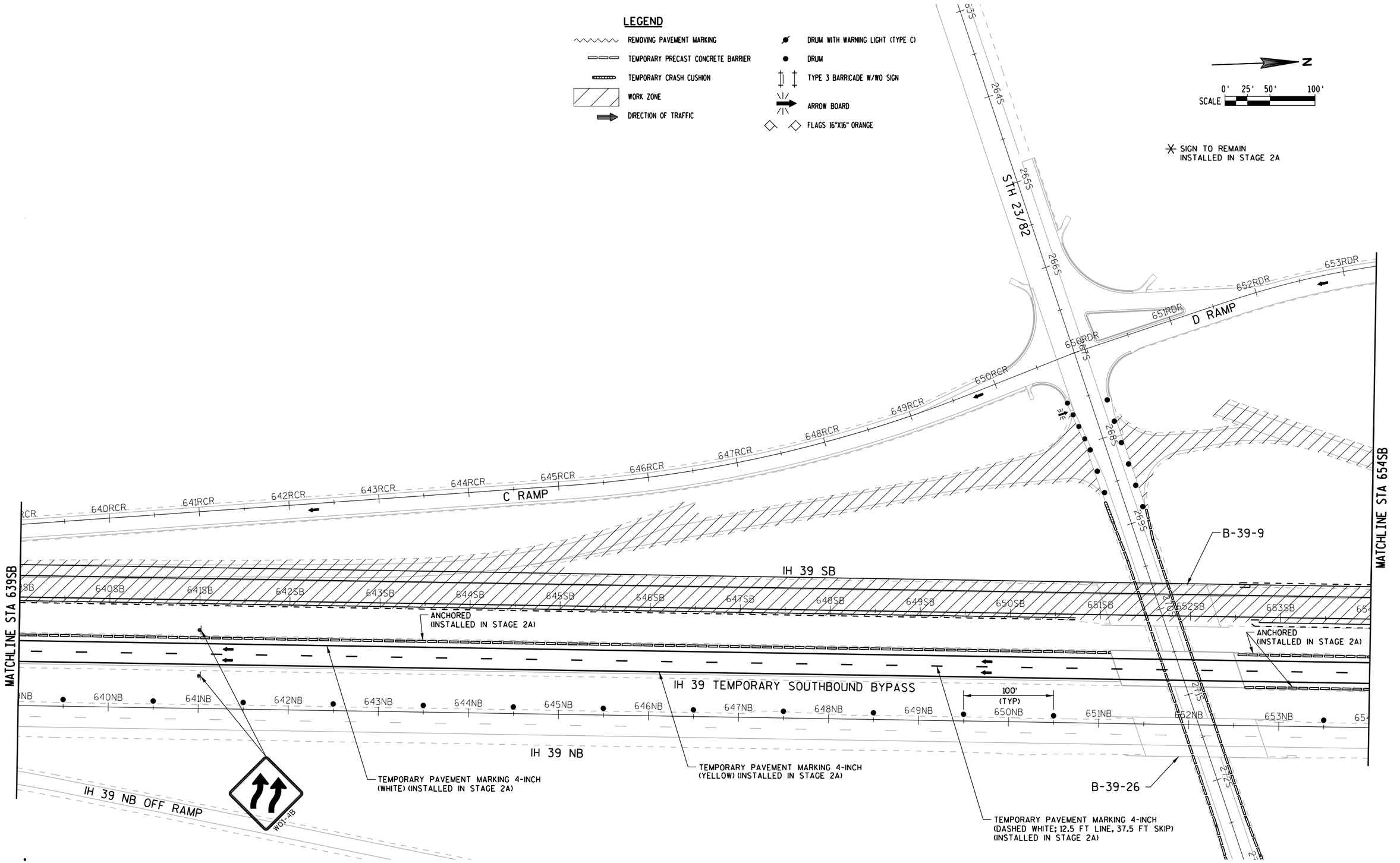
LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

N

SCALE 0' 25' 50' 100'

✳ SIGN TO REMAIN INSTALLED IN STAGE 2A



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 2B	SHEET 57	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025014_tc2b.dgn
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PLOT DATE: 1/29/2015
PLOT TIME: 2:48:45 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

2

N

SCALE 0' 25' 50' 100'

✳ SIGN TO REMAIN
INSTALLED DURING IH 39 STAGE 2A

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

MATCHLINE STA 654SB

D RAMP

654RDR 655RDR 656RDR 657RDR 658RDR 659RDR 660RDR 661RDR 662RDR 663RDR 664RDR 665RDR 666RDR 667RDR 668RDR

CROSSROADS CLINIC RD

STA 663SB+00 - STA 670SB+91
STA 663SB+00 - STA 674SB+65
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)
INSTALLED IN STAGE 2A

IH 39 SB

655SB 656SB 657SB 658SB 659SB 660SB 661SB 662SB 663SB 664SB 665SB 666SB 667SB 668SB

W5-52R
18" X 54"

ANCHORED
(INSTALLED IN STAGE 2A)

CRASH CUSHION

MATCHLINE STA 669SB

655NB 656NB 657NB 658NB 659NB 660NB 661NB 662NB 663NB 664NB 665NB 666NB 667NB 668NB

IH 39 TEMPORARY SOUTHBOUND BYPASS

TEMPORARY PAVEMENT MARKING 4-INCH
(WHITE) (INSTALLED IN STAGE 2A)

100'
(TYP)

TEMPORARY PAVEMENT MARKING 4-INCH
(YELLOW) (INSTALLED IN STAGE 2A)

TEMPORARY PAVEMENT MARKING 4-INCH
(DASHED WHITE; 12.5 FT LINE, 37.5 FT SKIP)
(INSTALLED IN STAGE 2A)

STA 663SB+00 - STA 670SB+91
STA 663SB+00 - STA 674SB+65
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)
INSTALLED IN STAGE 2A

ROAD CLOSED
R11-2
48" X 30"

EXIT
E5-1
72" X 60"

SEE "MOUNTING DETAIL FOR MOVABLE EXIT SIGN" ON STANDARD DETAIL DRAWING "TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE"

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 8-INCH (WHITE)

50'
(TYP)

TEMPORARY PAVEMENT MARKING 4-INCH
(WHITE) (INSTALLED IN STAGE 2A)

DRUMS SPACED @ 10'
INTERVALS AS NEEDED

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)
(INSTALLED IN STAGE 2A)

FOR ADDITIONAL TRAFFIC
CONTROL SIGNING SEE
"TRAFFIC CONTROL -
STH 23/82 INTERCHANGE STAGE 1"

500'

D RAMP

670RDR 671RDR

IH 39 SB

670SB 671SB 672SB 673SB 674SB 675SB 676SB 677SB 678SB 679SB 680SB

MATCHLINE STA 669SB

IH 39 TEMPORARY SOUTHBOUND BYPASS

TEMPORARY PAVEMENT MARKING 8-INCH
(WHITE) (INSTALLED IN STAGE 2A)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)
(INSTALLED IN STAGE 2A)

ANCHORED
(INSTALLED IN
STAGE 2A)

TEMPORARY PAVEMENT MARKING 4-INCH
(WHITE) (INSTALLED IN STAGE 2A)

100'
(TYP)

TEMPORARY PAVEMENT MARKING 4-INCH
(YELLOW) (INSTALLED IN STAGE 2A)

STAY
IN
LANE
R4-9
48" X 60"

W01-4B

670NB 671NB 672NB 673NB 674NB 675NB 676NB 677NB 678NB 679NB 680NB

STA 670SB+91 - STA 672SB+98
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 8-INCH (YELLOW)
INSTALLED IN STAGE 2A

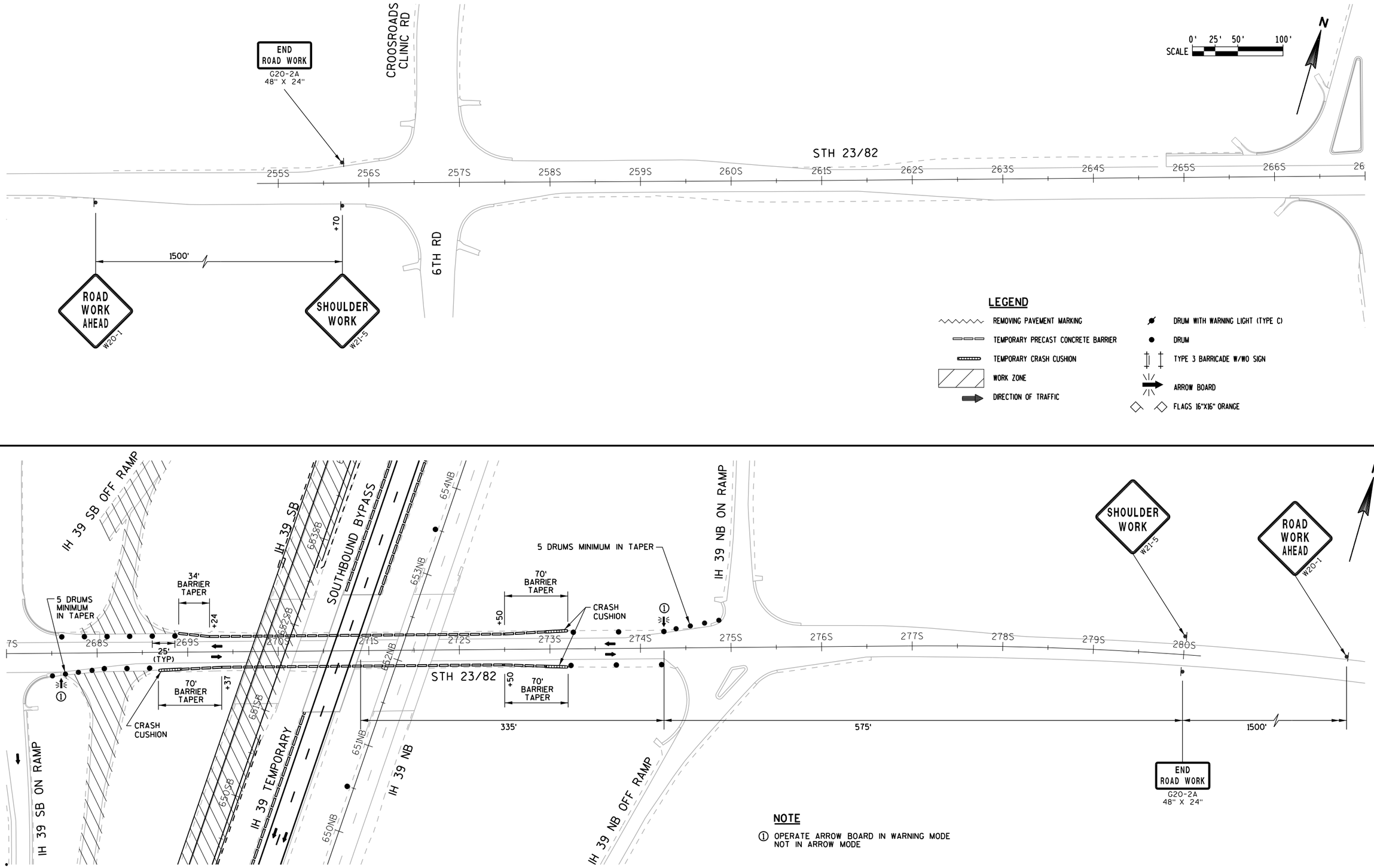
W5-52L
18" X 54"

CRASH CUSHION

IH 39 NB

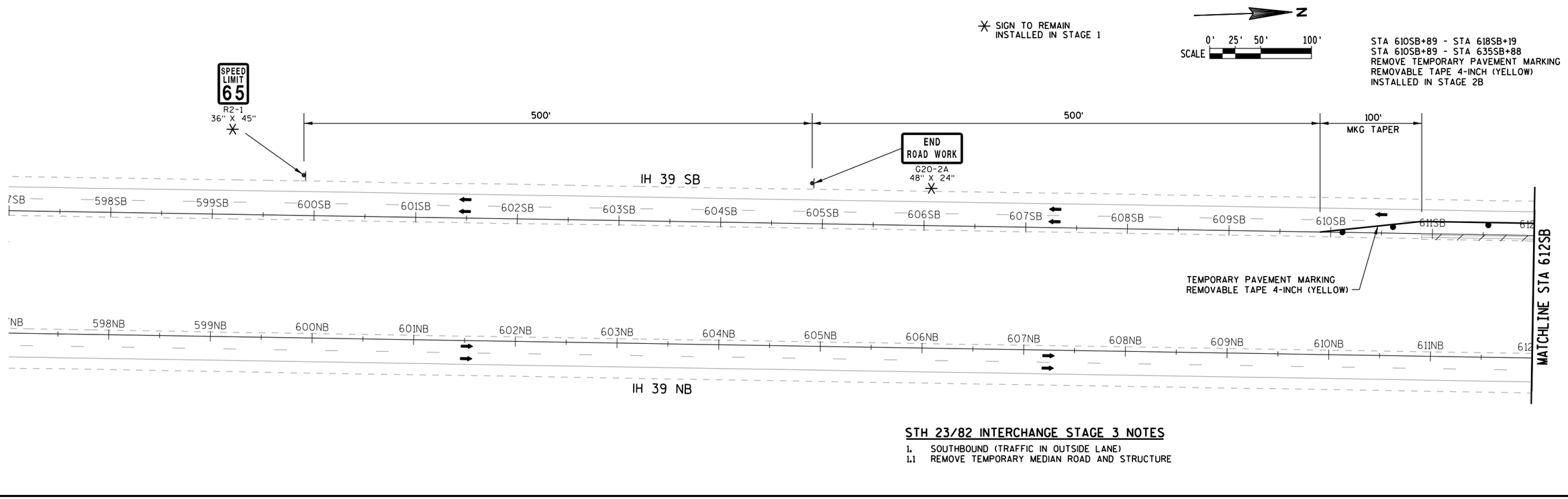
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 2B	SHEET 58	E

FILE NAME: L:\Work\Projects\60240622\000.CAD\001_Drawings\Sheets\025015_tc2b.dgn
BATCH PRINT SHEET 29 OF 92
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PLOT TIME: 2:48:47 PM
PLOT SCALE: 1:100



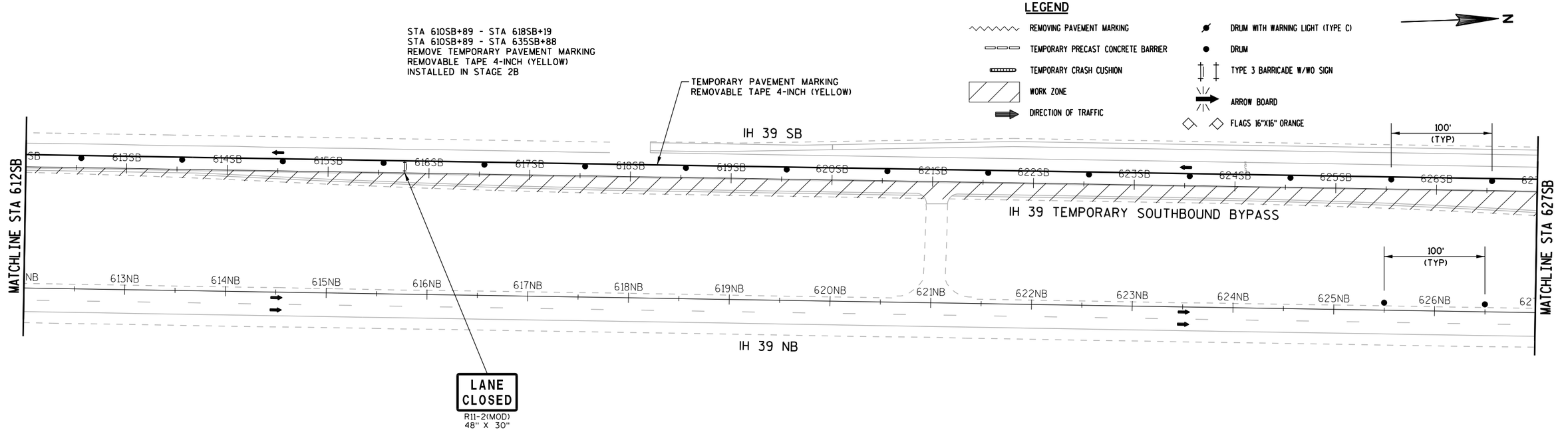
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 2B	SHEET 59	E

FILE NAME: L:\Work\Projects\602406622\000_CAD\001_Drawings\Sheets\025016_tc2b.dgn
BATCH PRINT SHEET 30 OF 92
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PLOT DATE: 1/29/2015
PLOT TIME: 2:48:49 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



STH 23/82 INTERCHANGE STAGE 3 NOTES

1. SOUTHBOUND (TRAFFIC IN OUTSIDE LANE)
1.1 REMOVE TEMPORARY MEDIAN ROAD AND STRUCTURE



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 3	SHEET 60	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025017_tc3.dgn
BATCH PRINT SHEET 31 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 1/29/2015
PLOT TIME: 2:48:52 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

2

N

SCALE 0' 25' 50' 100'

LANE CLOSED
R11-2(MOD)
48" X 30"

R1-2
36" X 31"

STA 610SB+89 - STA 635SB+88
STA 629SB+02 - STA 635SB+88
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)
INSTALLED IN STAGE 2B

W03-2

500'

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

IH 39 SB ON RAMP

IH 39 SB

MATCHLINE STA 627SB

628SB 629SB 630SB 631SB 632SB 633SB 634SB 635SB 636SB 637SB 638SB 639SB 640SB 641SB

100' (TYP)

100' (TYP)

IH 39 TEMPORARY SOUTHBOUND BYPASS

628NB 629NB 630NB 631NB 632NB 633NB 634NB 635NB 636NB 637NB 638NB 639NB 640NB 641NB

IH 39 NB

MATCHLINE STA 642SB

IH 39 NB OFF RAMP

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 3	SHEET 61	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025018_tc3.dgn
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PLOT DATE: 1/29/2015
PLOT TIME: 2:48:54 PM
PLOT SCALE: 1:100

2

2

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

SIGN TO REMAIN
INSTALLED IN STAGE 1

N

SCALE 0' 25' 50' 100'

STH 23/82

IH 39 SB OFF RAMP

IH 39 SB ON RAMP

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

100'
(TYP)

B-39-76

IH 39 SB

MATCHLINE STA 642SB

MATCHLINE STA 657SB

642SB 643SB 644SB 645SB 646SB 647SB 648SB 649SB 650SB 651SB 652SB 653SB 654SB 655SB 656SB 657SB

IH 39 TEMPORARY SOUTHBOUND BYPASS

642NB 643NB 644NB 645NB 646NB 647NB 648NB 649NB 650NB 651NB 652NB 653NB 654NB 655NB 656NB

100'
(TYP)

IH 39 NB

100'
(TYP)

B-39-26

LANE
CLOSED
R11-2(MOD)
48" X 30"

IH 39 NB OFF RAMP

STH 23/82

IH 39 NB ON RAMP

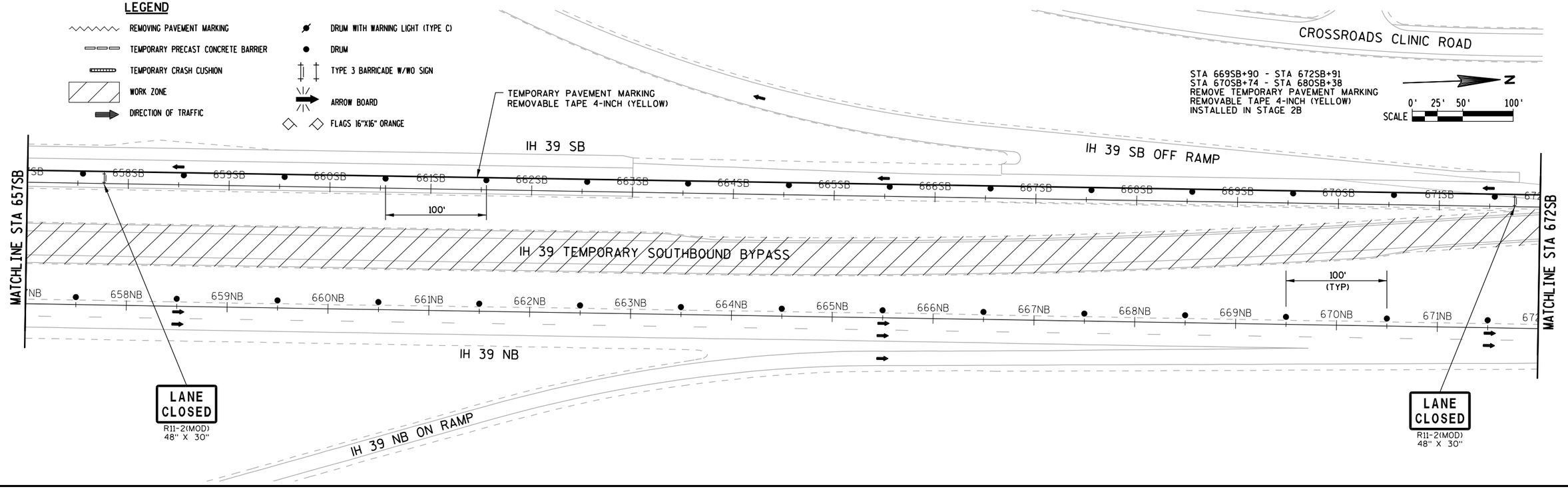
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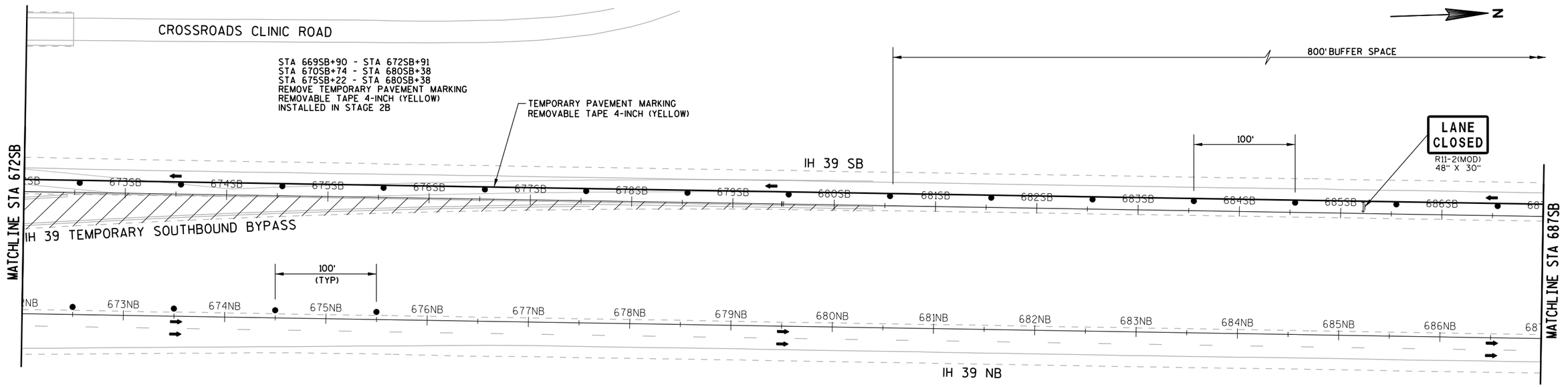
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PLOT DATE: 1/29/2015
PLOT TIME: 2:48:56 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

2

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE





PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 3	SHEET 63	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025020_tc3.dgn
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PLOT DATE: 1/29/2015
PLOT TIME: 2:48:58 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

STA 688SB+58 - STA 697SB+38
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(UNCOVER 4-INCH CENTERLINE SKIPS)

N

SCALE 0' 25' 50' 100'

800' BUFFER SPACE | 880' TRANSITION AREA | 1000'

300' | 475'

50' (TYP)

IH 39 SB

MATCHLINE STA 687SB

SB 688SB 689SB 690SB 691SB 692SB 693SB 694SB 695SB 696SB 697SB 698SB 699SB 700SB 701SB 702

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

NB 688NB 689NB 690NB 691NB 692NB 693NB 694NB 695NB 696NB 697NB 698NB 699NB 700NB 701NB 702

IH 39 NB

MATCHLINE STA 702SB

N

1000' | 750' | 850' | FOR ADDITIONAL TRAFFIC CONTROL SIGNING SEE "TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE I"

475' 25' 425'

IH 39 SB

MATCHLINE STA 702SB

SB 703SB

DRUMS SPACED @ 10' INTERVALS AS NEEDED IN FRONT OF ARROW BOARD

NB 703NB

IH 39 NB

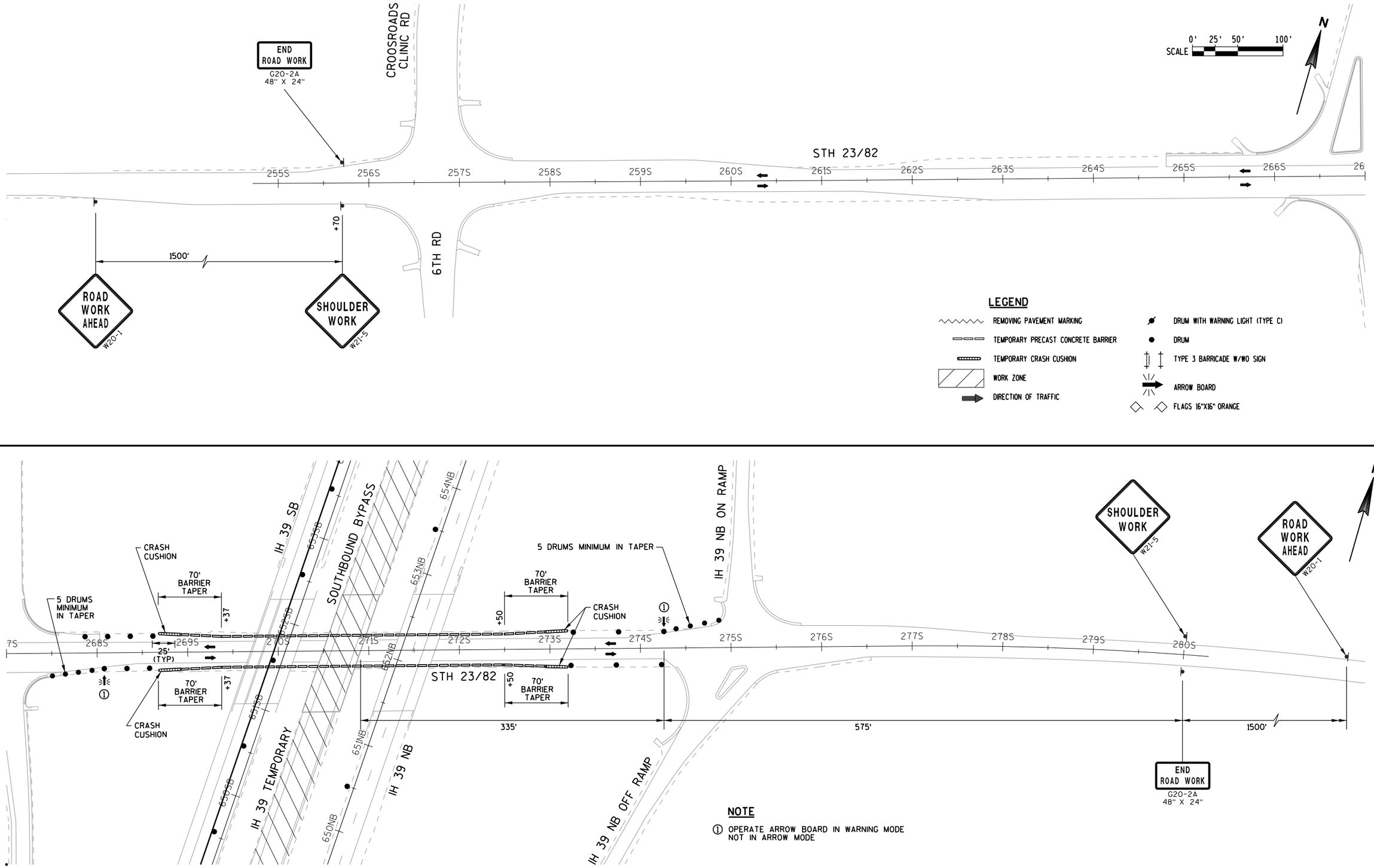
W04-2L | LEFT LANE CLOSED 1500 FT W20-5 | SPEED LIMIT 55 R2-1 36" X 45" | LEFT LANE CLOSED 1/2 MILE W20-5

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

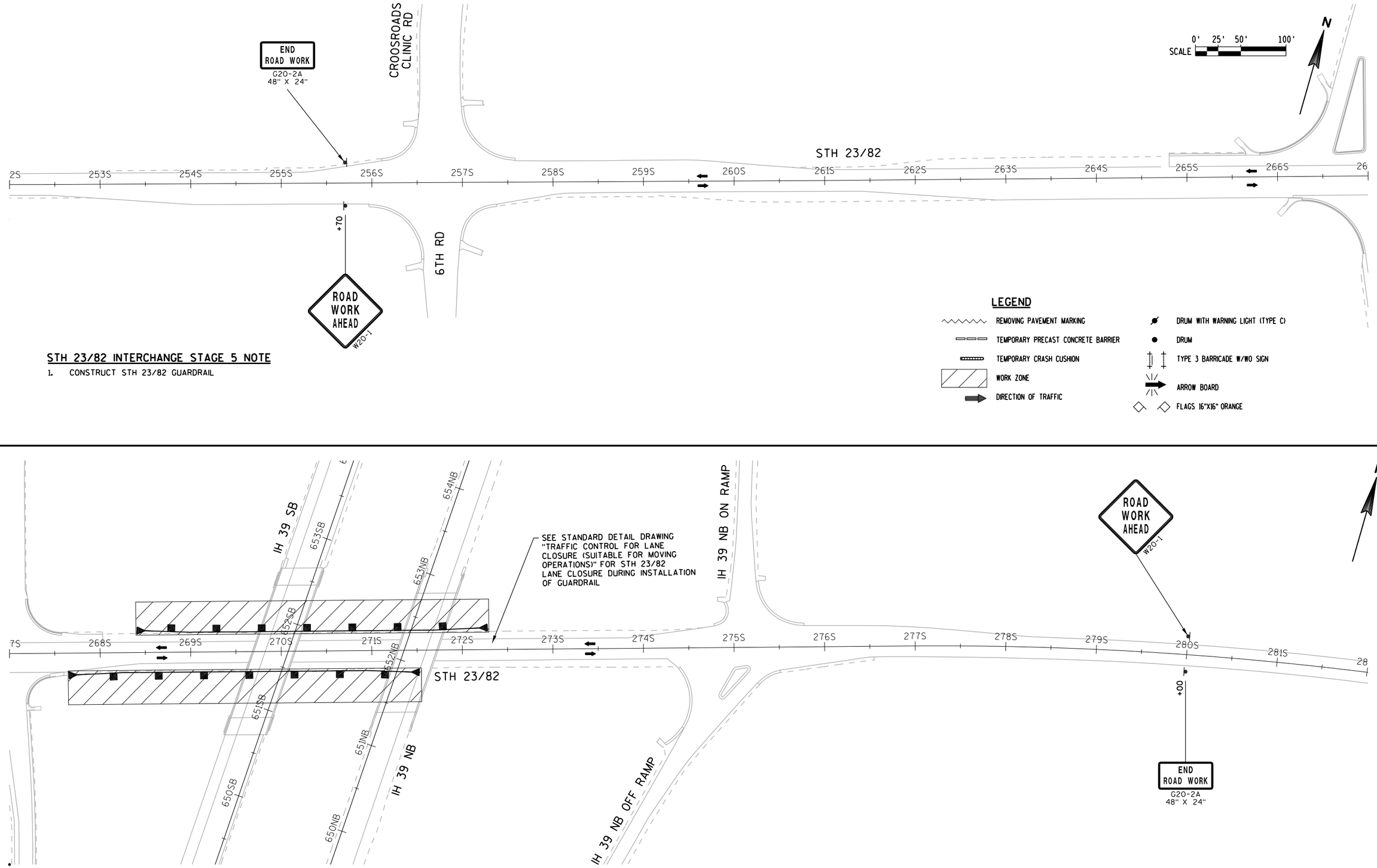
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 3	SHEET 64	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025021_tc3.dgn
BATCH PRINT SHEET 35 OF 92
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PLOT DATE: 1/29/2015
PLOT TIME: 2:49:00 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 3	SHEET 65	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025022_tc3.dgn
BATCH PRINT SHEET 36 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:49:03 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



STH 23/82 INTERCHANGE STAGE 5 NOTE

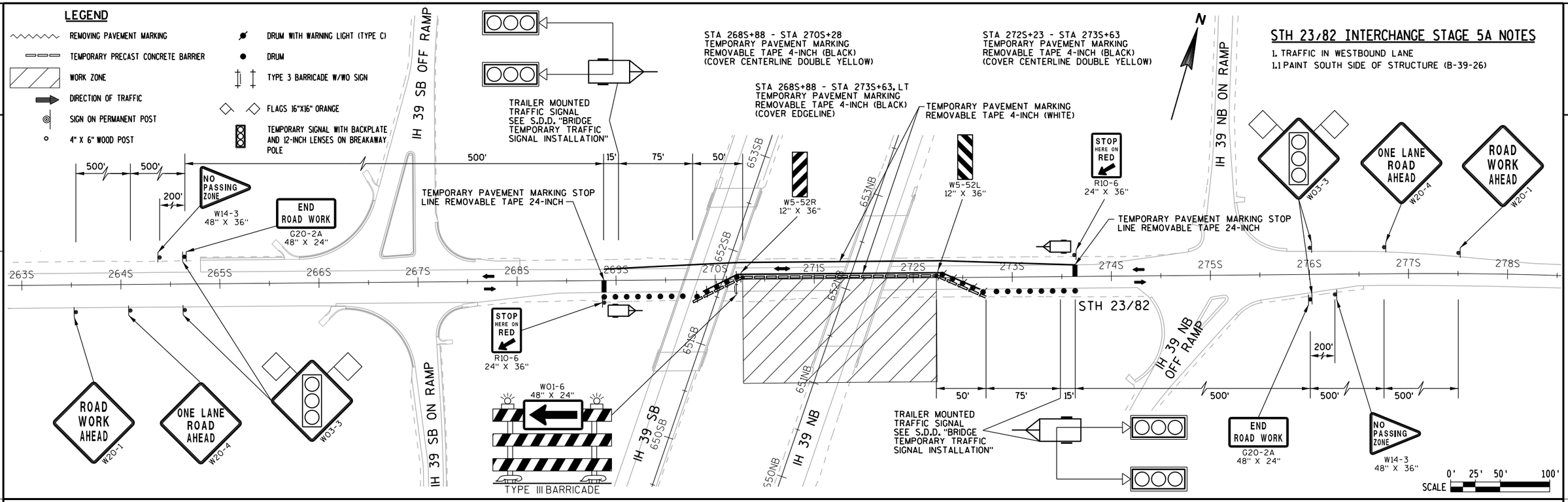
1. CONSTRUCT STH 23/82 GUARDRAIL

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGE 4	SHEET 66	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025023_tc4.dgn
BATCH PRINT SHEET 37 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 1/29/2015
PLOT TIME: 2:49:05 PM
PLOT SCALE: 1:100

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- WORK ZONE
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT POST
- 4" X 6" WOOD POST
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- FLAGS 16"X16" ORANGE
- TEMPORARY SIGNAL WITH BACKPLATE AND 12-INCH LENSES ON BREAKAWAY POLE



STH 23/82 INTERCHANGE STAGE 5A NOTES

1. TRAFFIC IN WESTBOUND LANE
1.1 PAINT SOUTH SIDE OF STRUCTURE (B-39-26)

STH 23/82 INTERCHANGE STAGE 5B NOTES

1. TRAFFIC IN EASTBOUND LANE
1.1 PAINT NORTH SIDE OF STRUCTURE (B-39-26)

STA 268S+88 - STA 273S+63, LT REMOVE TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (BLACK) (UNCOVER EDGELINE)

STA 268S+88 - STA 273S+63, RT TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (BLACK) (COVER EDGELINE)

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STH 23/82 INTERCHANGE STAGES 5A AND 5B	SHEET 67	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025024_tc5a.dgn
BATCH PRINT SHEET 38 OF 92
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PLOT DATE: 1/29/2015
PLOT TIME: 2:49:08 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

SEQUENCE OF OPERATION
6:00 AM TO 8:00 PM

	PHASE 1 ⇨			PHASE 2 ⇦		
EB STH 23/82 SIGNALS	G	Y	R	R	R	R
WB STH 23/82 SIGNALS	R	R	R	G	Y	R
DURATION (S)	17	5	59*	20	5	56*

N

* THE CONTRACTOR SHALL MONITOR TRAFFIC AND INCREASE THE ALL RED TIME IF VEHICLES FAIL TO CLEAR THE WORK ZONE DURING THE ALL RED TIME.

NOTES:

1. PHASE 1 AND PHASE 2 WILL EACH ACTIVATE ONLY WHEN CALLED.
2. PHASE 1 AND PHASE 2 WILL EACH REST IN RED WHEN NO DEMAND IS PRESENT.

SEQUENCE OF OPERATION
8:00 PM TO 6:00 AM

	PHASE 1 ⇨			PHASE 2 ⇦		
EB STH 23/82 SIGNALS	G	Y	R	R	R	R
WB STH 23/82 SIGNALS	R	R	R	G	Y	R
DURATION (S)	14	5	55*	16	5	53*

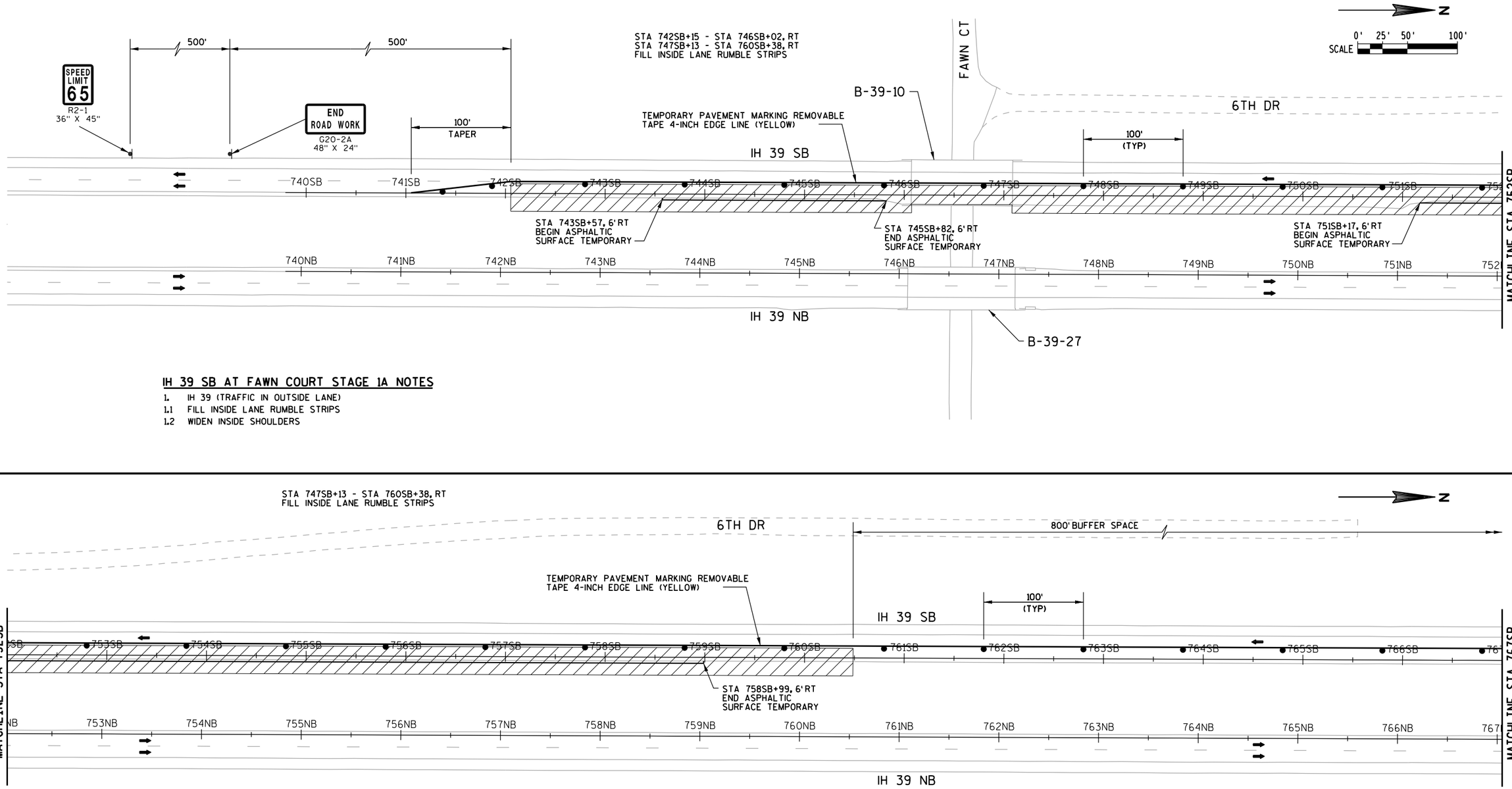
N

* THE CONTRACTOR SHALL MONITOR TRAFFIC AND INCREASE THE ALL RED TIME IF VEHICLES FAIL TO CLEAR THE WORK ZONE DURING THE ALL RED TIME.

NOTES:

1. PHASE 1 AND PHASE 2 WILL EACH ACTIVATE ONLY WHEN CALLED.
2. PHASE 1 AND PHASE 2 WILL EACH REST IN RED WHEN NO DEMAND IS PRESENT.

TEMPORARY TRAFFIC SIGNALS - MARQUETTE COUNTY LOCATION



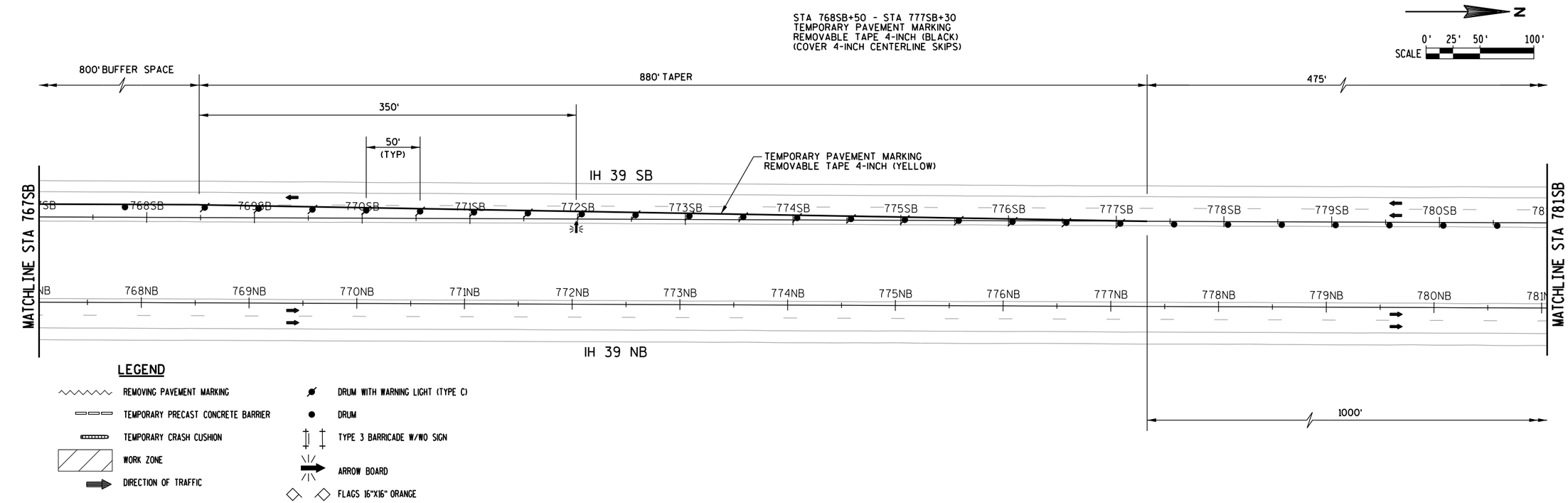
IH 39 SB AT FAWN COURT STAGE 1A NOTES

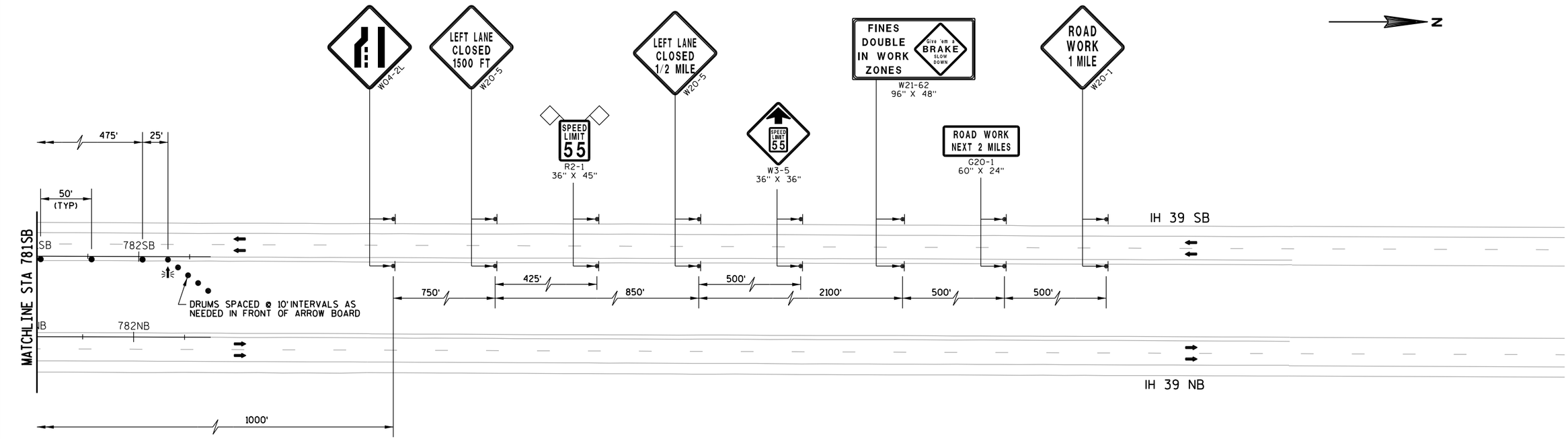
1. IH 39 (TRAFFIC IN OUTSIDE LANE)
1.1 FILL INSIDE LANE RUMBLE STRIPS
1.2 WIDEN INSIDE SHOULDERS

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 SB STAGE IA AT FAWN COURT	SHEET 69	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025025_tcla_SB_IH39_Fawn.dgn
BATCH PRINT SHEET 40 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 1/29/2015
PLOT TIME: 2:49:14 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

STA 768SB+50 - STA 777SB+30
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER 4-INCH CENTERLINE SKIPS)



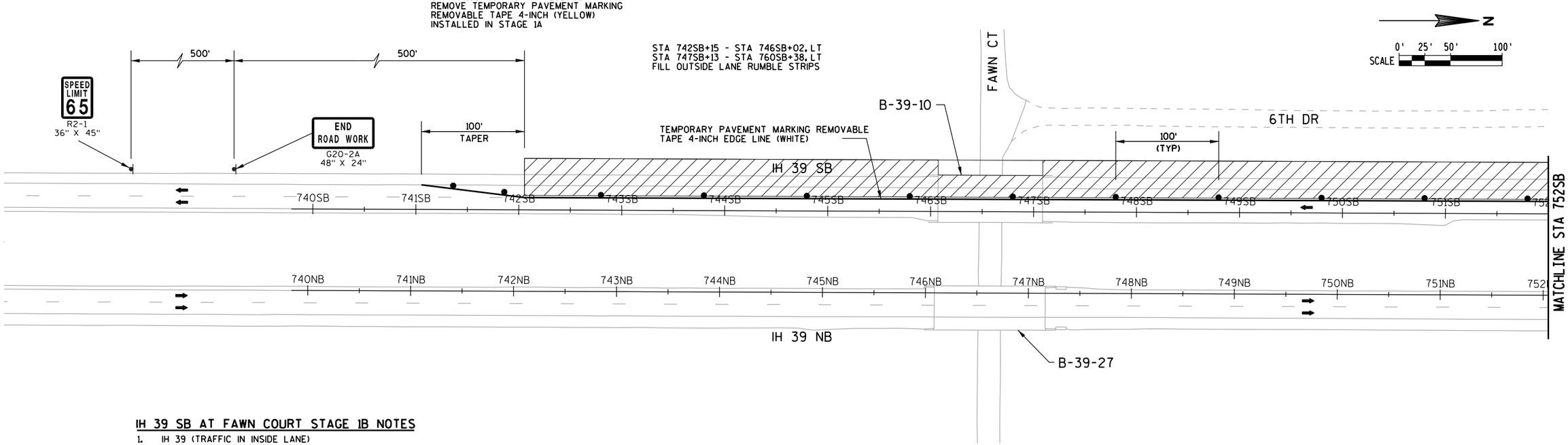


PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 SB STAGE IA AT FAWN COURT	SHEET 70	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025026_tcla_SB_IH39_Fawn.dgn
BATCH PRINT SHEET 41 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:49:16 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

STA 741SB+05 - STA 742SB+05
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)
INSTALLED IN STAGE 1A

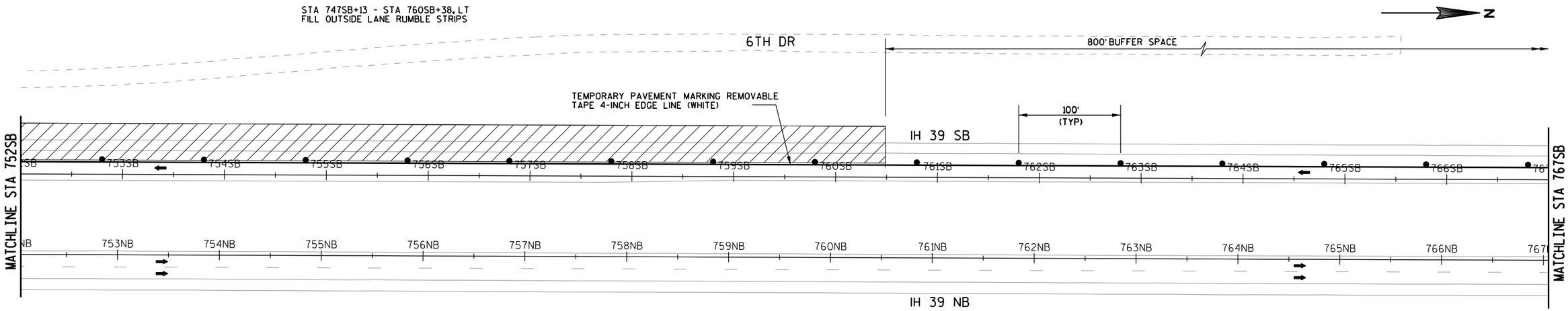
STA 742SB+15 - STA 746SB+02, LT
STA 747SB+13 - STA 760SB+38, LT
FILL OUTSIDE LANE RUMBLE STRIPS



IH 39 SB AT FAWN COURT STAGE 1B NOTES

1. IH 39 (TRAFFIC IN INSIDE LANE)
1.1 FILL OUTSIDE LANE RUMBLE STRIPS

STA 747SB+13 - STA 760SB+38, LT
FILL OUTSIDE LANE RUMBLE STRIPS



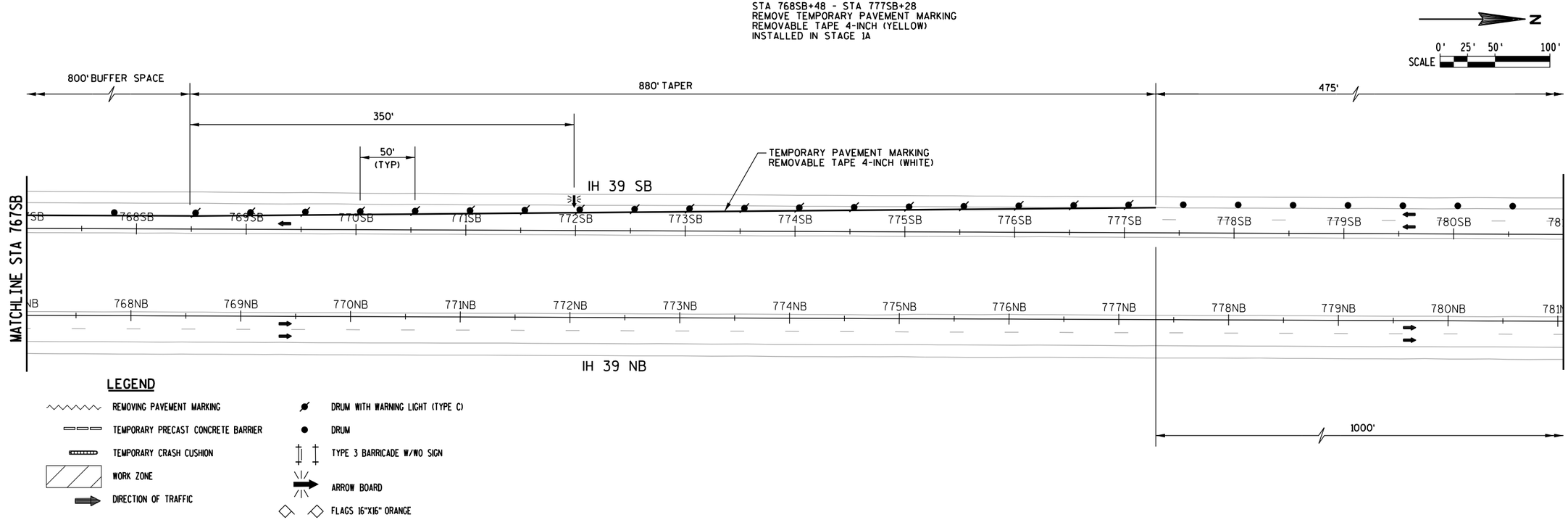
LEGEND

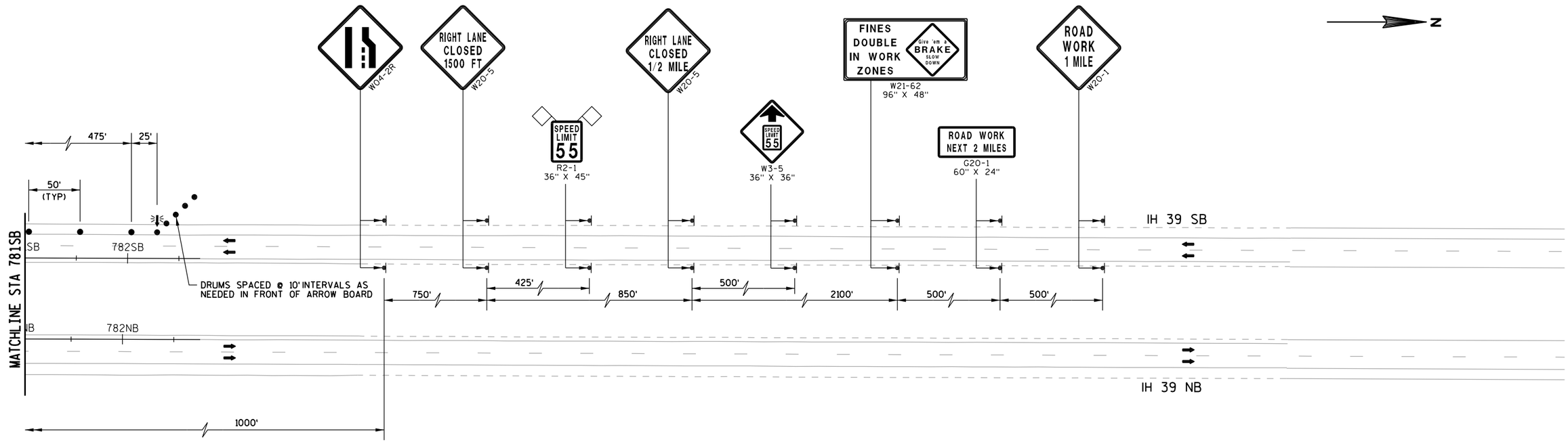
- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 SB STAGE IB AT FAWN COURT	SHEET 71	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025027_tclb_SB_IH39_Fawn.dgn
BATCH PRINT SHEET 42 OF 92
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PLOT DATE: 1/29/2015
PLOT TIME: 2:49:19 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

STA 768SB+48 - STA 777SB+28
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)
INSTALLED IN STAGE 1A





PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 SB STAGE IB AT FAWN COURT	SHEET 72	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025028_tclb_SB_IH39_Fawn.dgn
BATCH PRINT SHEET 43 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT TIME: 2:49:21 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

STA 741SB+05 - STA 777SB+28
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH)
(INSTALLED IN STAGE 1B

END ROAD WORK
G20-2A
48" X 24"

STA 742SB+15 - STA 760SB+38, RT
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER EDGELINE)

N

SCALE 0' 25' 50' 100'

SPEED LIMIT 65
R2-1
36" X 45"

500'

500'

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

FAWN CT

800' BUFFER SPACE

6TH DR

100' TAPER

B-39-10

IH 39 SB

112' TAPER

+70.0

CRASH CUSHION

100' (TYP)

740SB 741SB 742SB 743SB 744SB 745SB 746SB 747SB 748SB 749SB 750SB 751SB 752

+82.4

275' TAPER

+57.4

TEMPORARY PAVEMENT MARKING REMOVABLE
TAPE 4-INCH EDGE LINE (YELLOW)

TEMPORARY PAVEMENT MARKING REMOVABLE
TAPE 4-INCH EDGE LINE (WHITE)

740NB 741NB 742NB 743NB 744NB 745NB 746NB 747NB 748NB 749NB 750NB 751NB 752

MATCHLINE STA 752SB

IH 39 NB

B-39-27

SEE STANDARD DETAIL DRAWING
"TRAFFIC CONTROL FOR LANE
CLOSURE (SUITABLE FOR MOVING
OPERATIONS)" FOR FAWN COURT
LANE CLOSURE DURING BRIDGE
DECK REPAIR WORK

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

IH 39 SB STAGE 2A NOTES

1. IH 39 (TRAFFIC IN INSIDE LANE)
1.1 OUTSIDE LANE DECK REPAIRS. HALF AT A TIME UTILIZING SINGLE LANE CLOSURE W/ MOVING OPERATIONS ON FAWN COURT BELOW REPAIR WORK
1.2 OUTSIDE LANE DECK OVERLAY
1.3 OUTSIDE LANE BRIDGE APPROACHES

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

CTH M

N

1000'

475'

800' BUFFER SPACE

880' TAPER

6TH DR

STA 742SB+15 - STA 760SB+38, RT
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER EDGELINE)

350'

STA 741SB+05 - STA 777SB+28
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH)
(INSTALLED IN STAGE 1B

100' (TYP)

+70.0

TEMPORARY PAVEMENT MARKING REMOVABLE
TAPE 4-INCH EDGE LINE (WHITE)

50' (TYP)

+50.0

IH 39 SB

753SB 754SB 755SB 756SB 757SB 758SB 759SB 760SB 761SB 762SB 763SB 764SB 765SB 766SB 767

MATCHLINE STA 752SB

MATCHLINE STA 767SB

TEMPORARY PAVEMENT MARKING REMOVABLE
TAPE 4-INCH EDGE LINE (YELLOW)

+45.0

275' TAPER

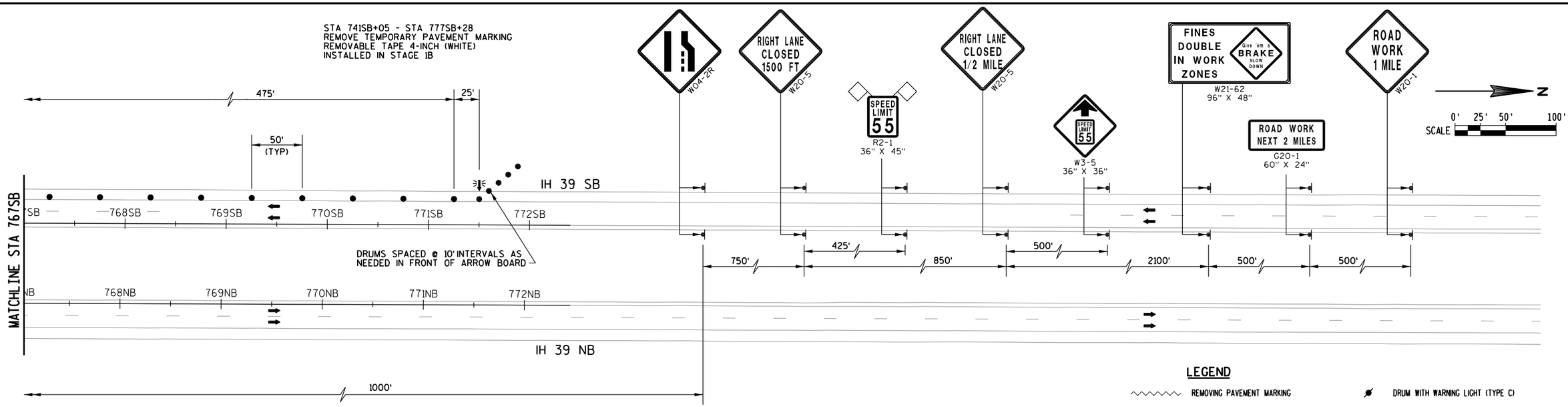
753NB 754NB 755NB 756NB 757NB 758NB 759NB 760NB 761NB 762NB 763NB 764NB 765NB 766NB 767

IH 39 NB

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 SB STAGE 2A AT FAWN COURT	SHEET 73	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025029_tc2a_SB_IH39_Fawn.dgn
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PLOT DATE: 1/29/2015
PLOT TIME: 2:49:24 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

STA 741SB+05 - STA 777SB+28
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)
INSTALLED IN STAGE 1B

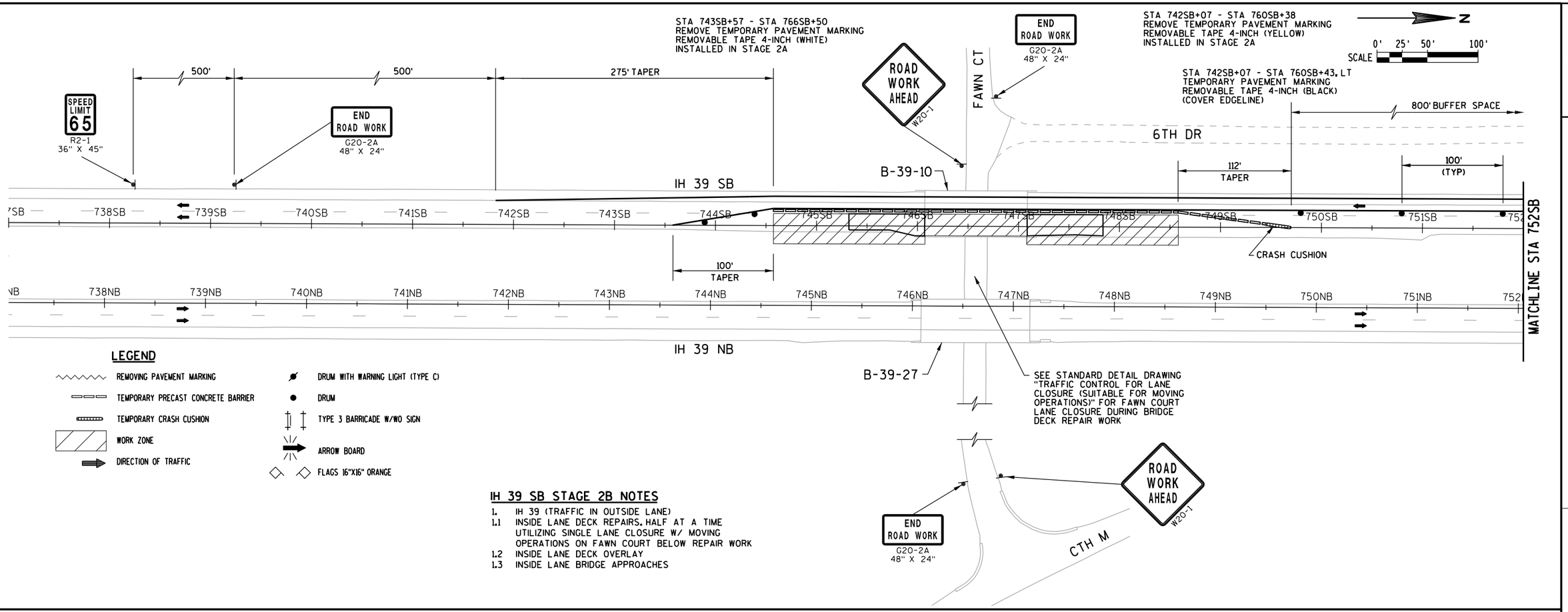


LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

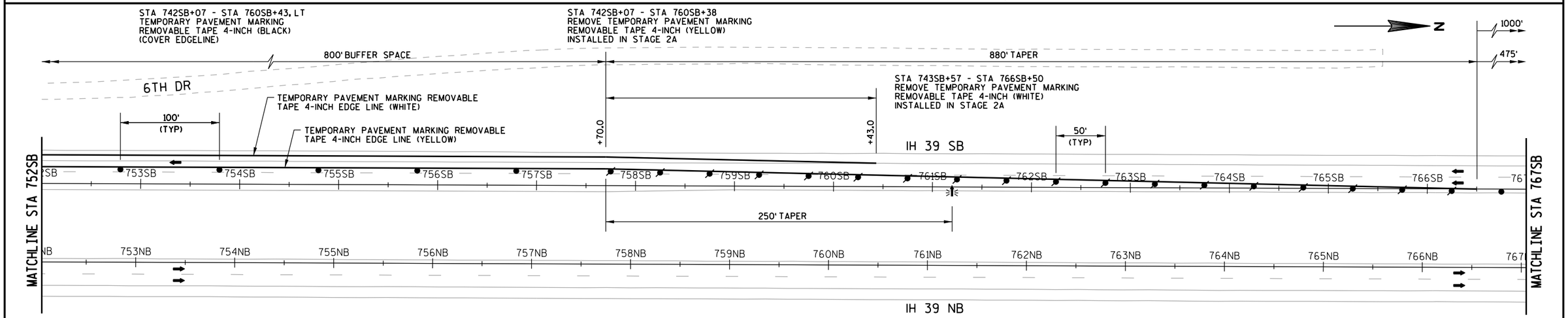
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 SB STAGE 2A AT FAWN COURT	SHEET 74	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025030_tc2a_SB_IH39_Fawn.dgn
BATCH PRINT SHEET 45 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 1/29/2015
PLOT TIME: 2:49:26 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



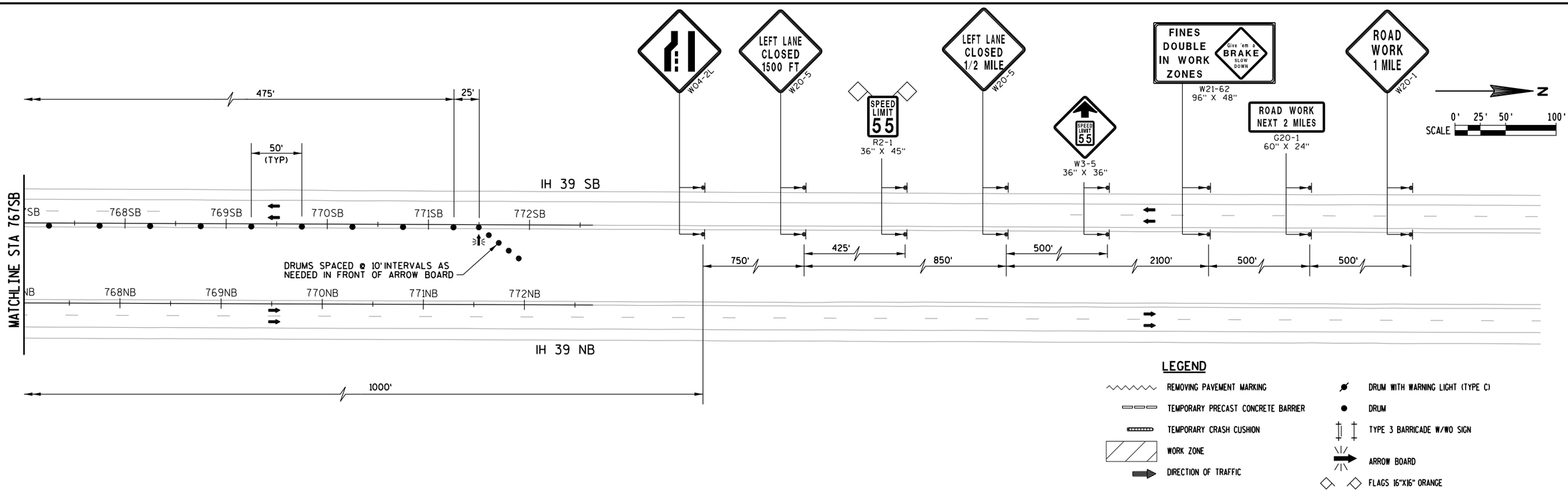
IH 39 SB STAGE 2B NOTES

1. IH 39 (TRAFFIC IN OUTSIDE LANE)
1.1 INSIDE LANE DECK REPAIRS. HALF AT A TIME UTILIZING SINGLE LANE CLOSURE W/ MOVING OPERATIONS ON FAWN COURT BELOW REPAIR WORK
1.2 INSIDE LANE DECK OVERLAY
1.3 INSIDE LANE BRIDGE APPROACHES



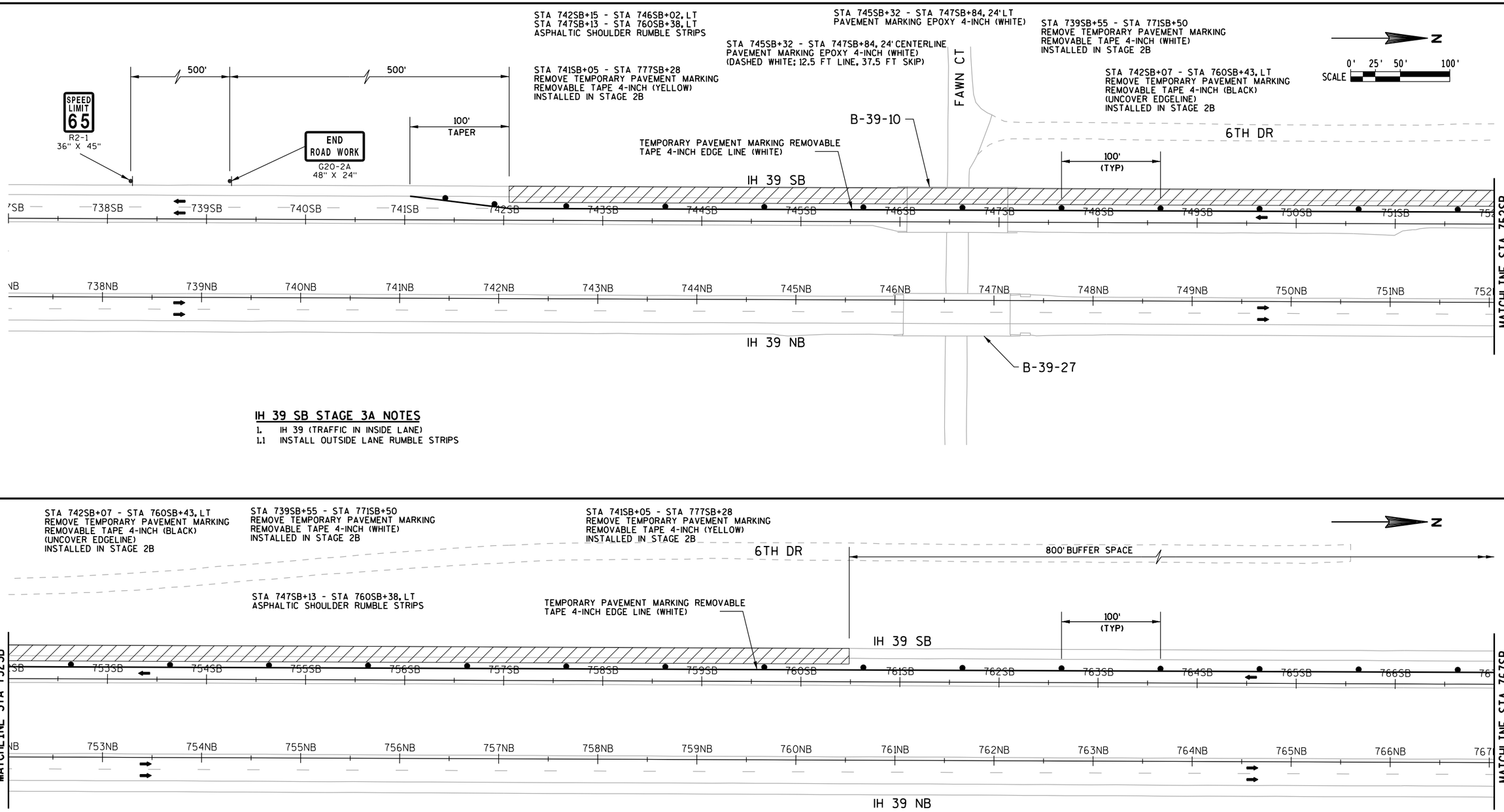
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 SB STAGE 2B AT FAWN COURT	SHEET 75	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025031_tc2b_SB_IH39_Fawn.dgn
BATCH PRINT SHEET 46 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 1/29/2015
PLOT TIME: 2:49:30 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 SB STAGE 2B AT FAWN COURT	SHEET 76	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025032_tc2b_SB_IH39_Fawn.dgn
BATCH PRINT SHEET 47 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:49:32 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



IH 39 SB STAGE 3A NOTES

1. IH 39 (TRAFFIC IN INSIDE LANE)
1.1 INSTALL OUTSIDE LANE RUMBLE STRIPS

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 SB STAGE 3A AT FAWN COURT	SHEET 77	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025033_tc3a_SB_IH39_Fawn.dgn
BATCH PRINT SHEET 48 OF 92
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WISDOT/CADDS SHEET 42

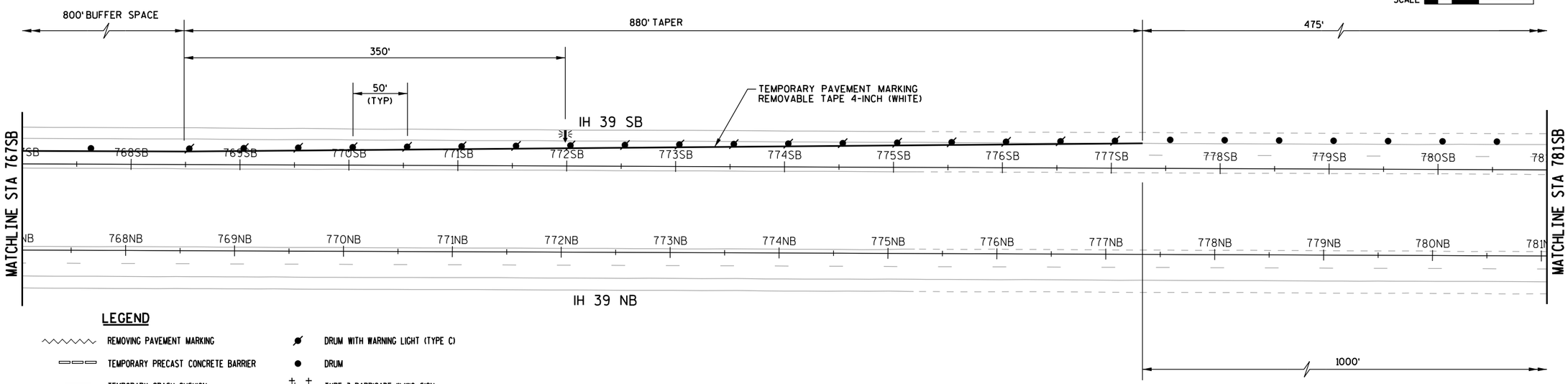
STA 739SB+55 - STA 771SB+50
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)
INSTALLED IN STAGE 2B

STA 768SB+50 - STA 777SB+30
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(UNCOVER 4-INCH CENTERLINE SKIPS)
INSTALLED IN STAGE 1A

STA 741SB+05 - STA 777SB+28
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)
INSTALLED IN STAGE 2B

N

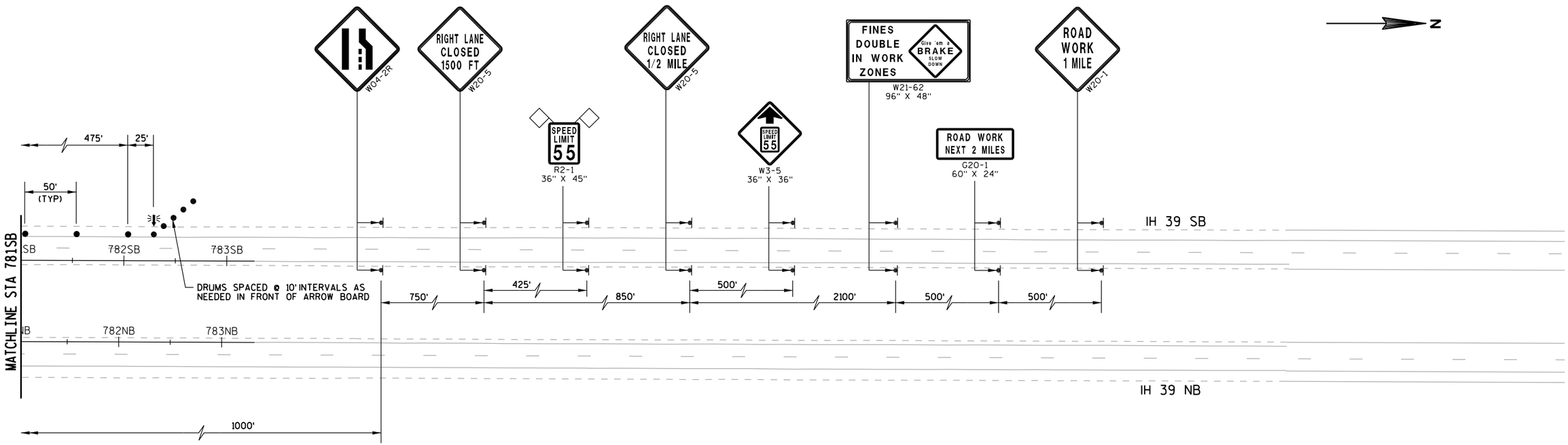
0' 25' 50' 100'
SCALE



LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

N



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 SB STAGE 3A AT FAWN COURT	SHEET 78	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025034_tc3a_SB_IH39_Fawn.dgn
BATCH PRINT SHEET 49 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 1/29/2015
PLOT TIME: 2:49:38 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

STA 742SB+15 - STA 746SB+02, RT
STA 747SB+13 - STA 760SB+38, RT
ASPHALTIC SHOULDER RUMBLE STRIPS

STA 745SB+32 - STA 747SB+84, RT EDGELINE
PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

STA 742SB+15 - STA 760SB+38, RT
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(UNCOVER EDGELINE)
INSTALLED IN STAGE 2A

STA 743SB+57 - STA 745SB+82, RT
REMOVE ASPHALTIC SURFACE TEMPORARY

STA 751SB+17 - STA 758SB+99, RT
REMOVE ASPHALTIC SURFACE TEMPORARY

N

SCALE 0' 25' 50' 100'

500' 500'

SPEED LIMIT 65
R2-1
36" X 45"

END ROAD WORK
G20-2A
48" X 24"

100' TAPER

B-39-10

FAWN CT

6TH DR

100' (TYP)

TEMPORARY PAVEMENT MARKING REMOVABLE
TAPE 4-INCH EDGE LINE (YELLOW)

IH 39 SB

738SB 739SB 740SB 741SB 742SB 743SB 744SB 745SB 746SB 747SB 748SB 749SB 750SB 751SB

738NB 739NB 740NB 741NB 742NB 743NB 744NB 745NB 746NB 747NB 748NB 749NB 750NB 751NB

IH 39 NB

MATCHLINE STA 752SB

B-39-27

IH 39 SB STAGE 3B NOTES

1. IH 39 (TRAFFIC IN OUTSIDE LANE)
1.1 INSTALL INSIDE LANE RUMBLE STRIPS

STA 742SB+15 - STA 760SB+38, RT
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(UNCOVER EDGELINE)
INSTALLED IN STAGE 2A

STA 751SB+17 - STA 758SB+99, RT
REMOVE ASPHALTIC SURFACE TEMPORARY

N

6TH DR

800' BUFFER SPACE

STA 747SB+13 - STA 760SB+38, RT
ASPHALTIC SHOULDER RUMBLE STRIPS

TEMPORARY PAVEMENT MARKING REMOVABLE
TAPE 4-INCH EDGE LINE (YELLOW)

100' (TYP)

IH 39 SB

753SB 754SB 755SB 756SB 757SB 758SB 759SB 760SB 761SB 762SB 763SB 764SB 765SB 766SB

753NB 754NB 755NB 756NB 757NB 758NB 759NB 760NB 761NB 762NB 763NB 764NB 765NB 766NB

IH 39 NB

MATCHLINE STA 752SB

MATCHLINE STA 767SB

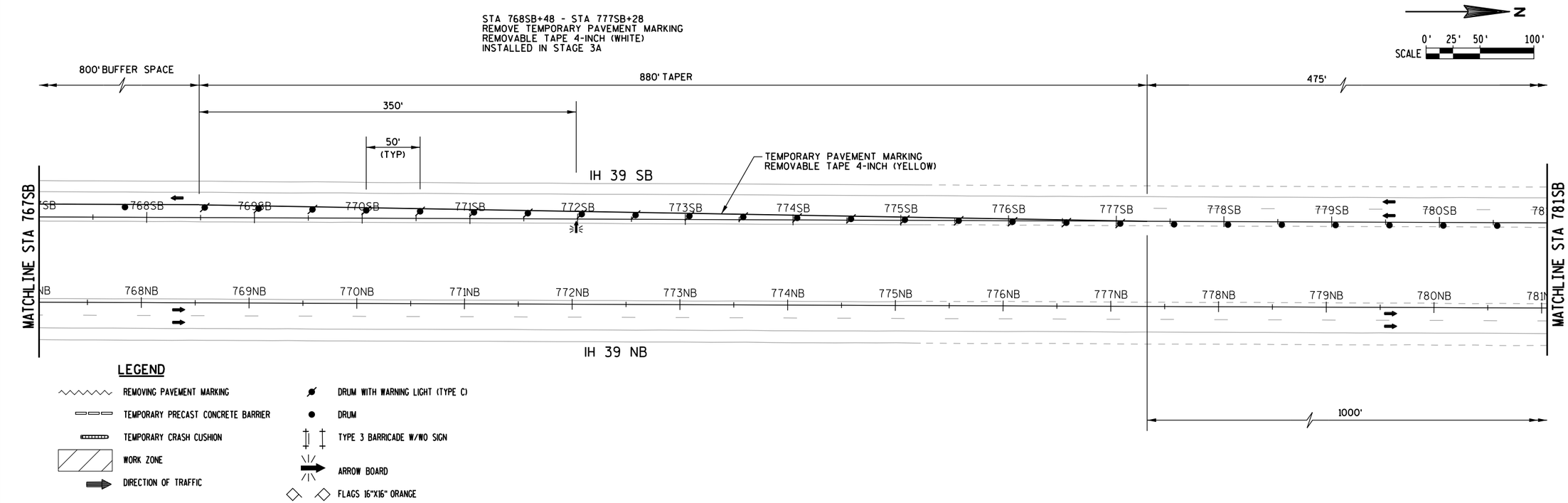
LEGEND

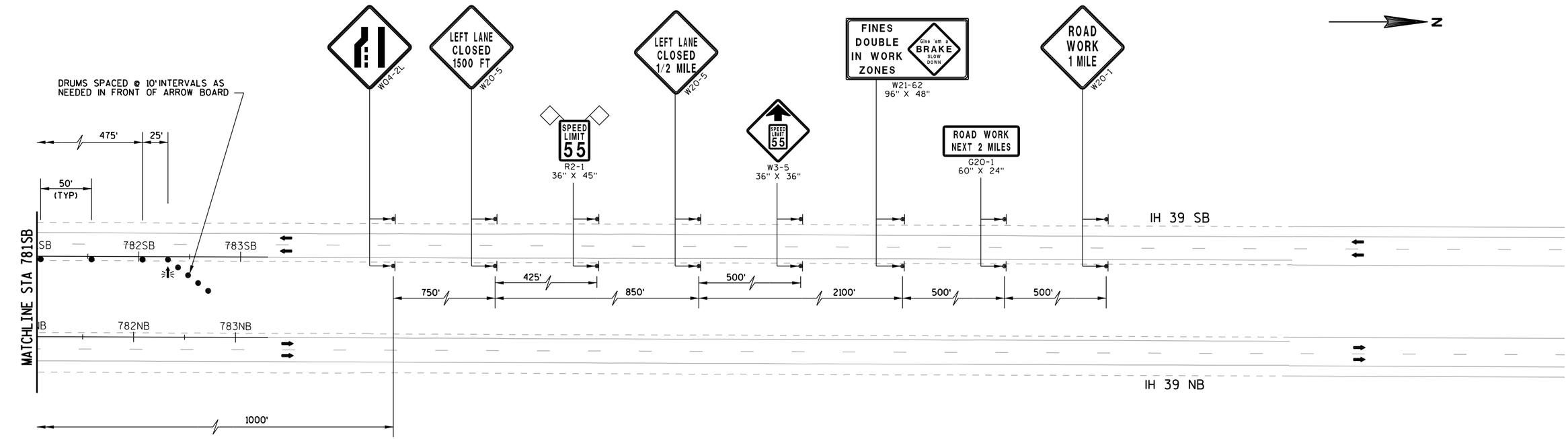
- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 SB STAGE 3B AT FAWN COURT	SHEET 79	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025035_tc3b_SB_IH39_Fawn.dgn
BATCH PRINT SHEET 50 OF 92
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PLOT DATE: 1/29/2015
PLOT TIME: 2:49:41 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

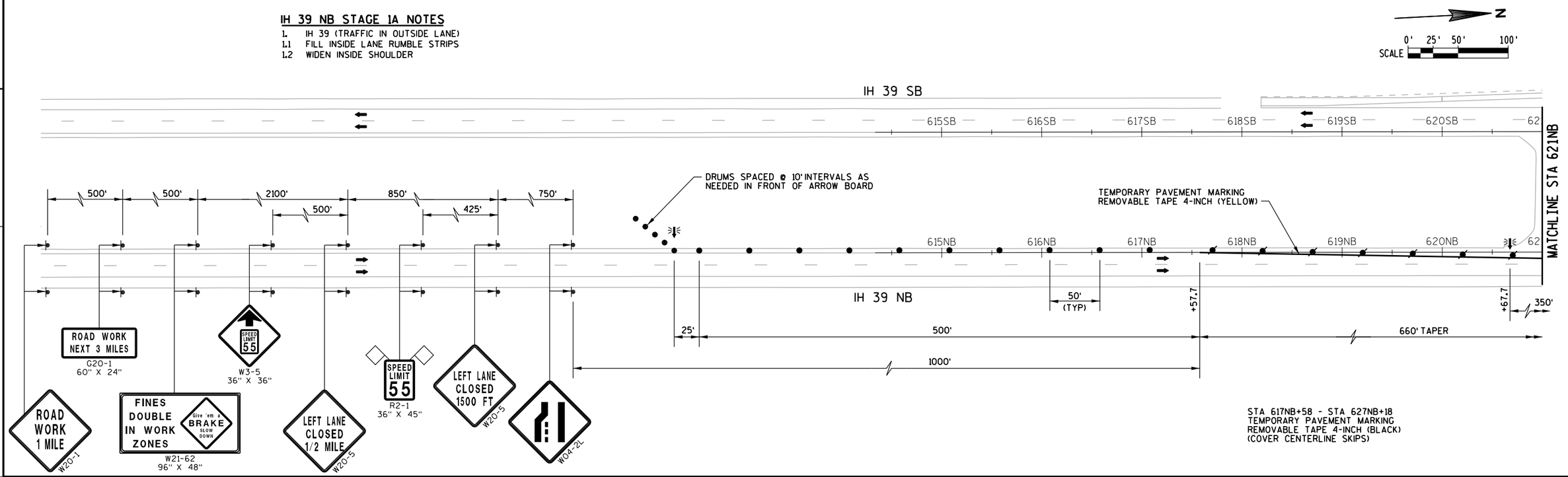
STA 768SB+48 - STA 777SB+28
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)
INSTALLED IN STAGE 3A





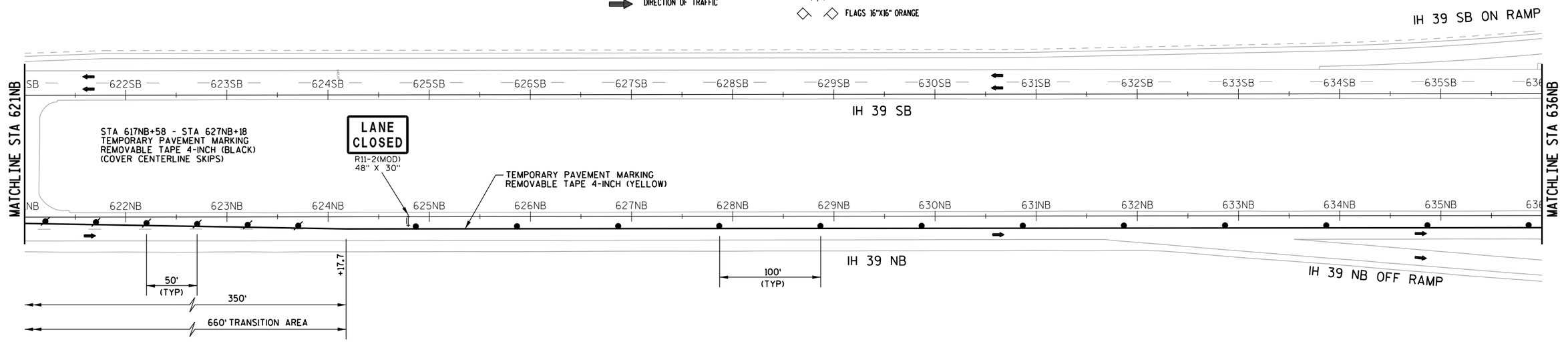
IH 39 NB STAGE 1A NOTES

1. IH 39 (TRAFFIC IN OUTSIDE LANE)
1.1 FILL INSIDE LANE RUMBLE STRIPS
1.2 WIDEN INSIDE SHOULDER

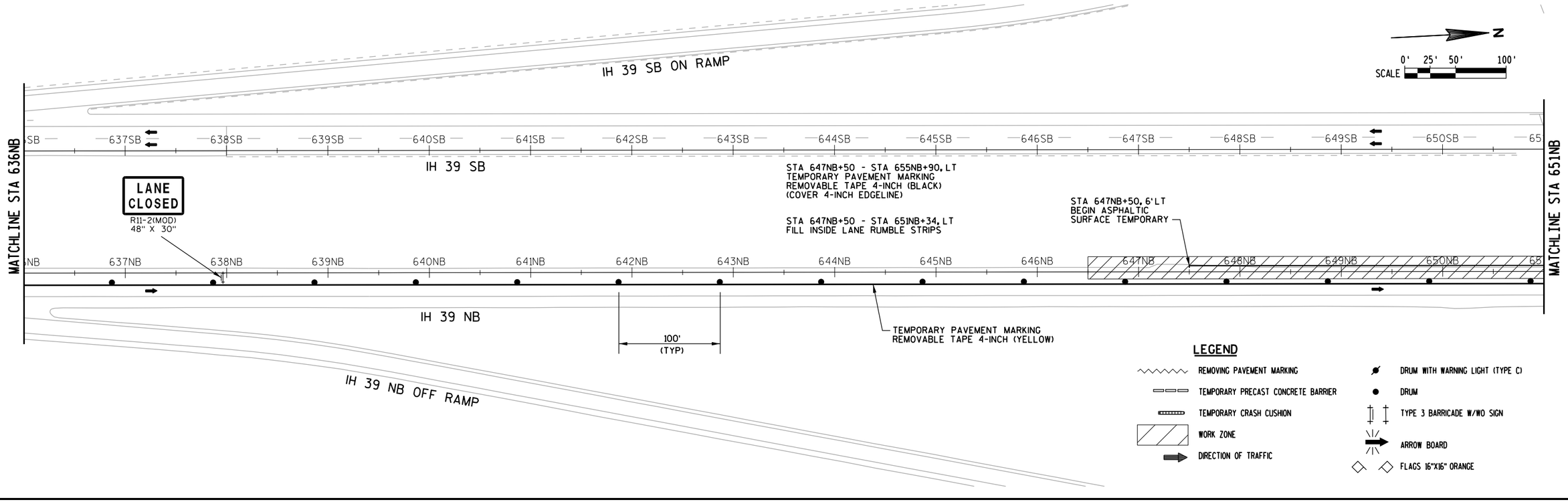


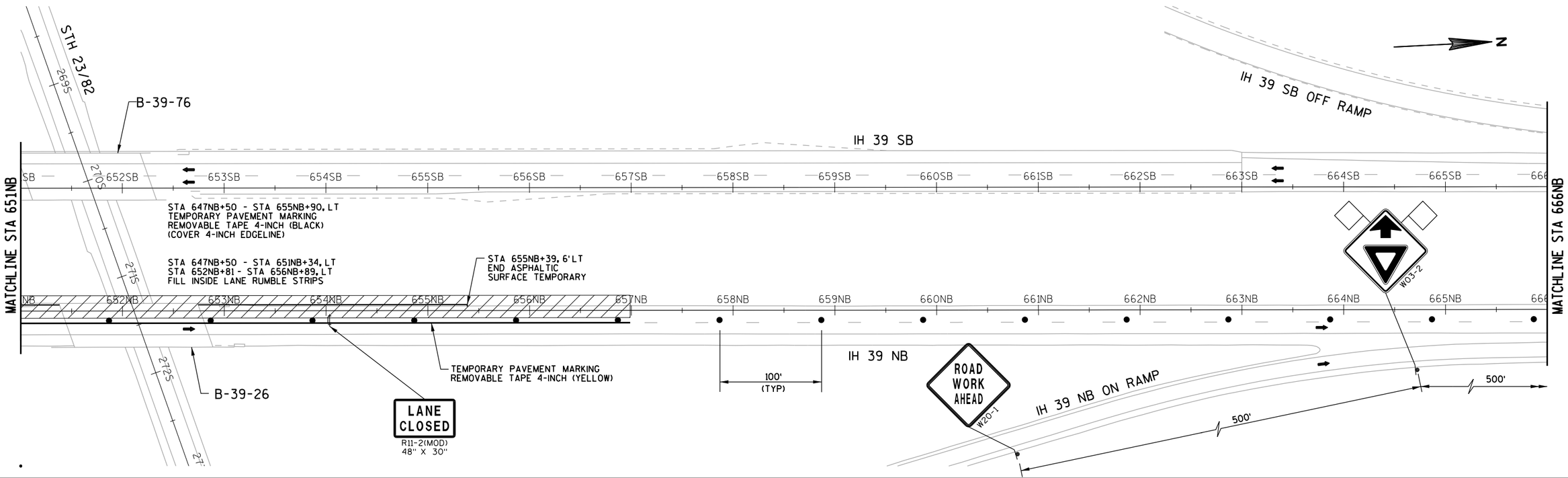
LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE



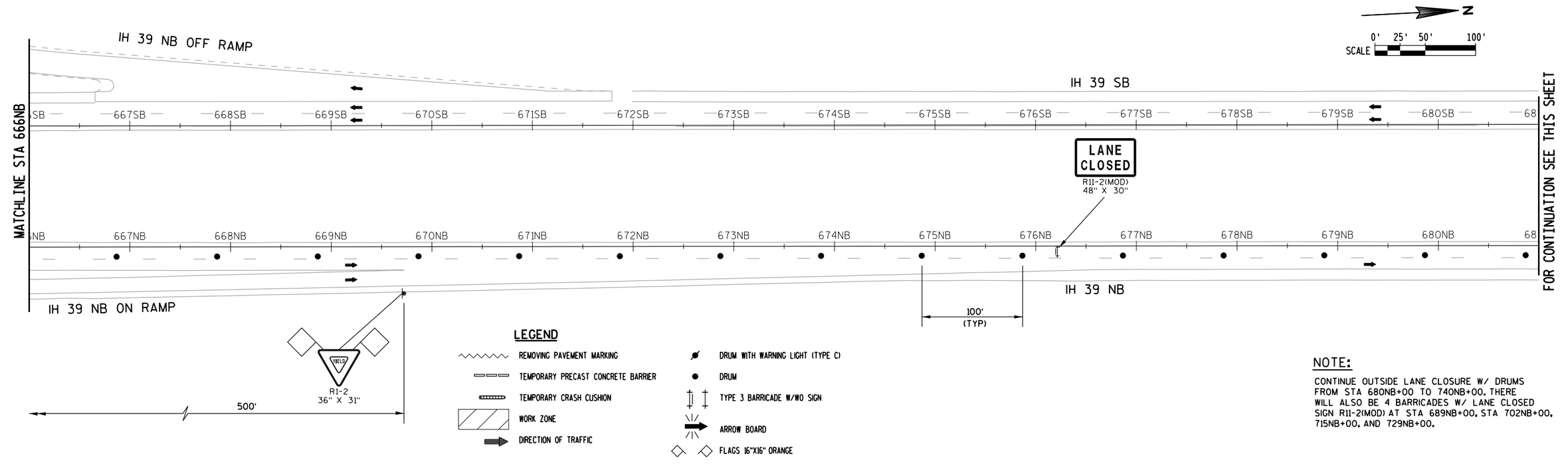
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE IA (STH 23/82 AND FAWN CT)	SHEET 81	E





PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE IA (STH 23/82 AND FAWN CT)	SHEET 82	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025038_tcla_NB_IH39_82_Fawn.dgn
BATCH PRINT SHEET 53 OF 92
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PLOT TIME: 2:49:49 PM
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WISDOT/CADDS SHEET 42

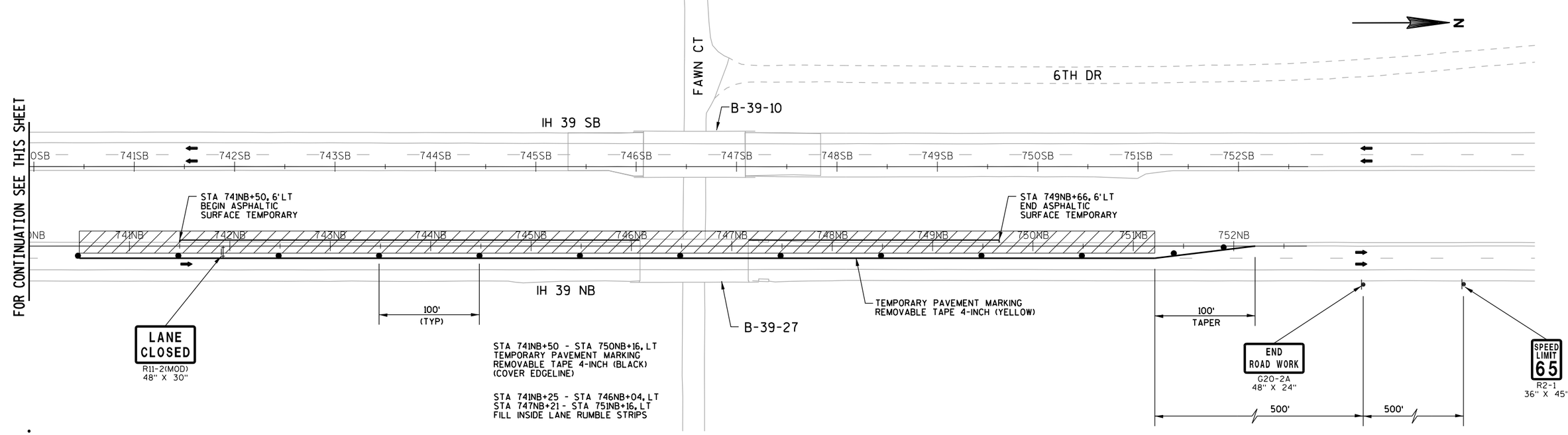


LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

NOTE:

CONTINUE OUTSIDE LANE CLOSURE W/ DRUMS FROM STA 680NB+00 TO 740NB+00. THERE WILL ALSO BE 4 BARRICADES W/ LANE CLOSED SIGN R11-2(MOD) AT STA 689NB+00, STA 702NB+00, 715NB+00, AND 729NB+00.



STA 741NB+50 - STA 750NB+16, LT
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER EDGELINE)

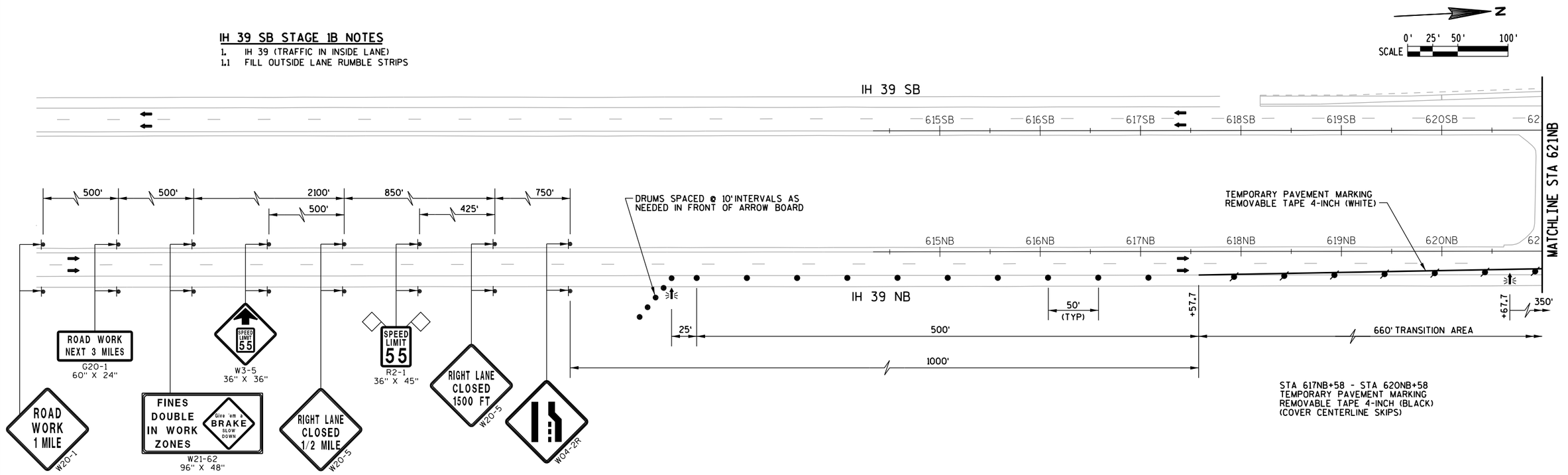
STA 741NB+25 - STA 746NB+04, LT
STA 747NB+21 - STA 751NB+16, LT
FILL INSIDE LANE RUMBLE STRIPS

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE IA (STH 23/82 AND FAWN CT)	SHEET 83	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025039_tcla_NB_IH39_82_Fawn.dgn
BATCH PRINT SHEET 54 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:49:51 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

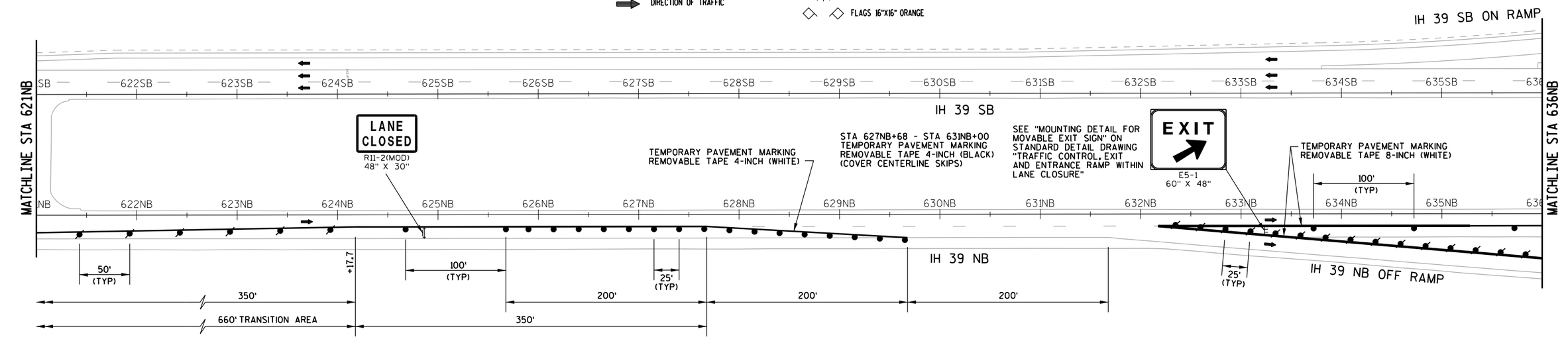
IH 39 SB STAGE 1B NOTES

1. IH 39 (TRAFFIC IN INSIDE LANE)
1.1 FILL OUTSIDE LANE RUMBLE STRIPS

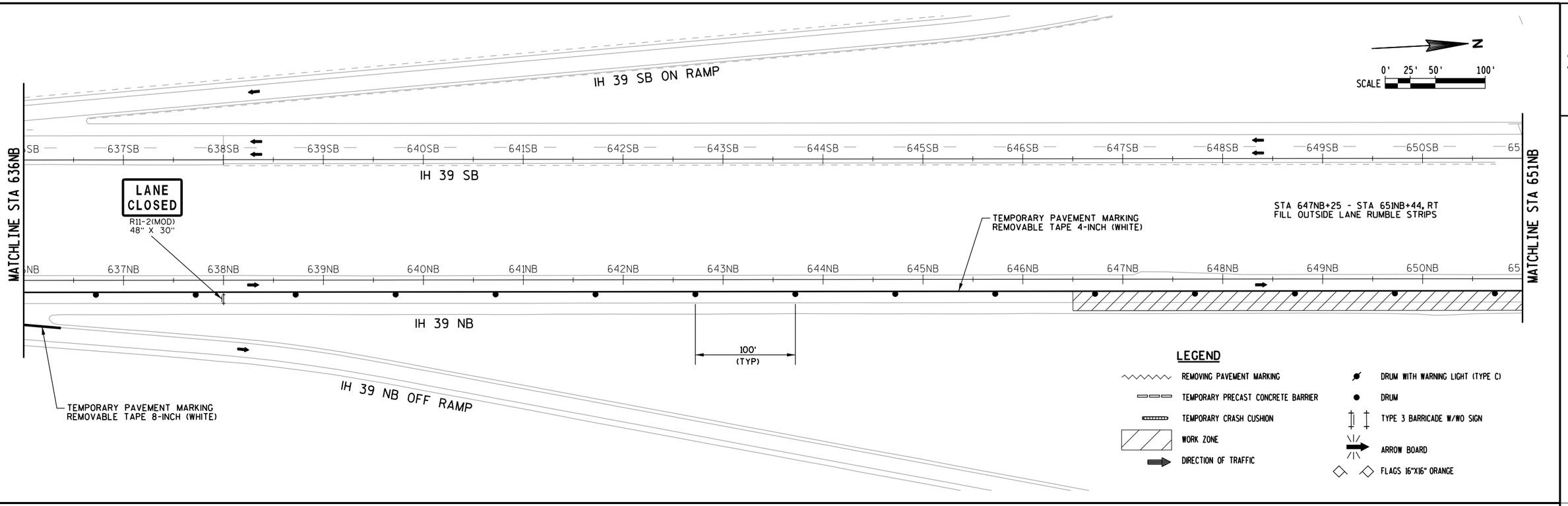


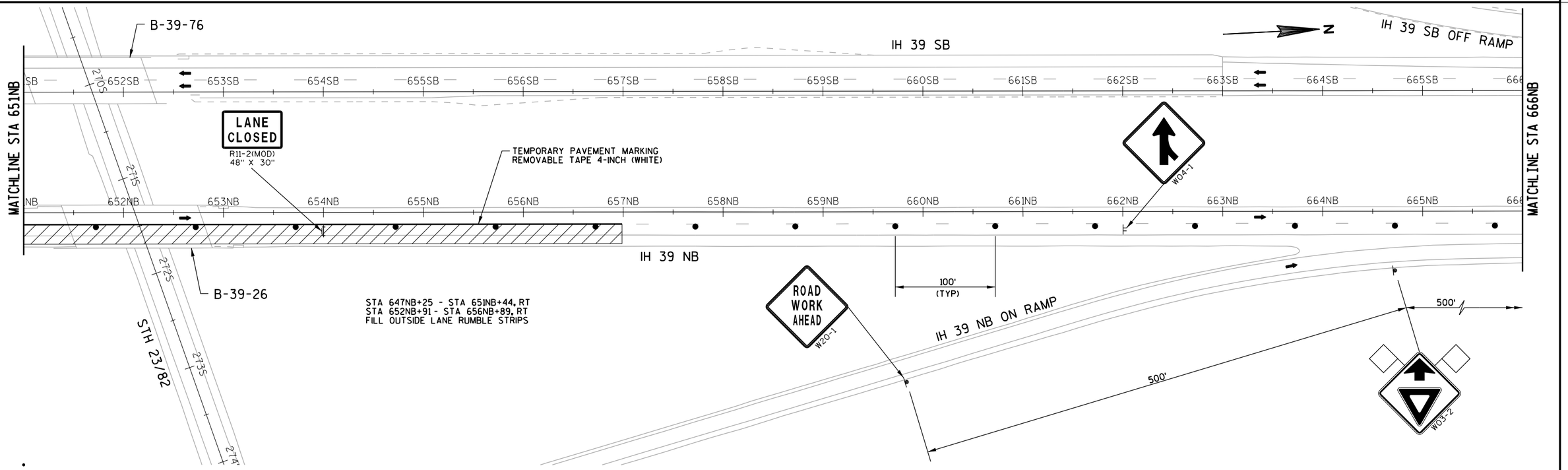
LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE



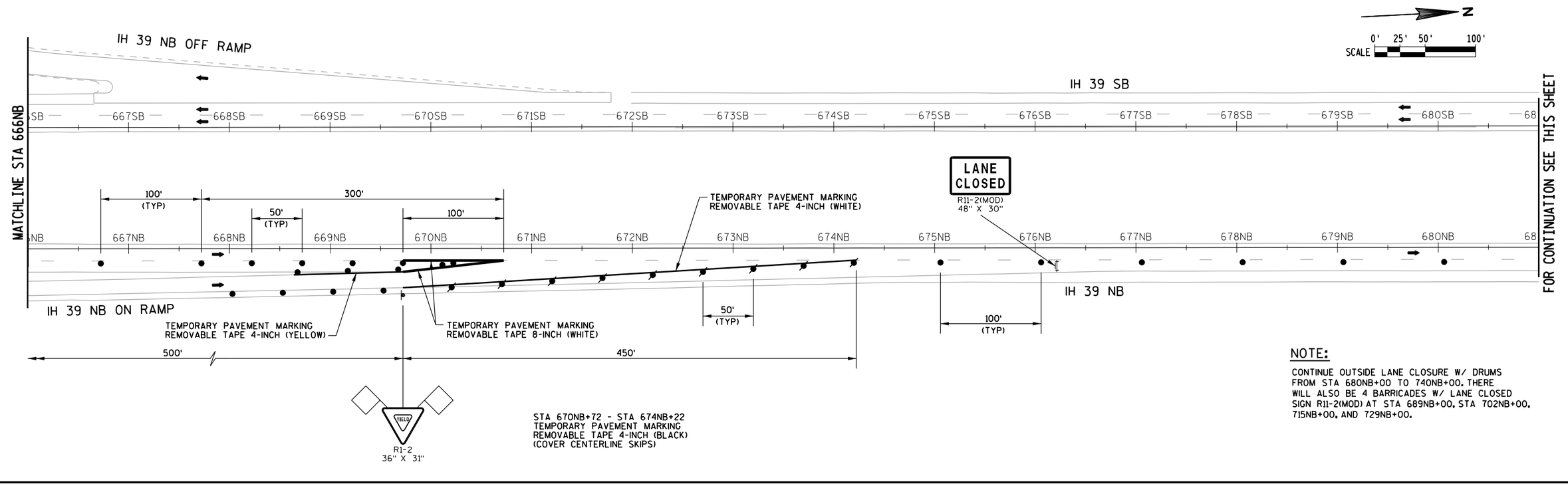
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE IB (STH 23/82 AND FAWN CT)	SHEET 84	E





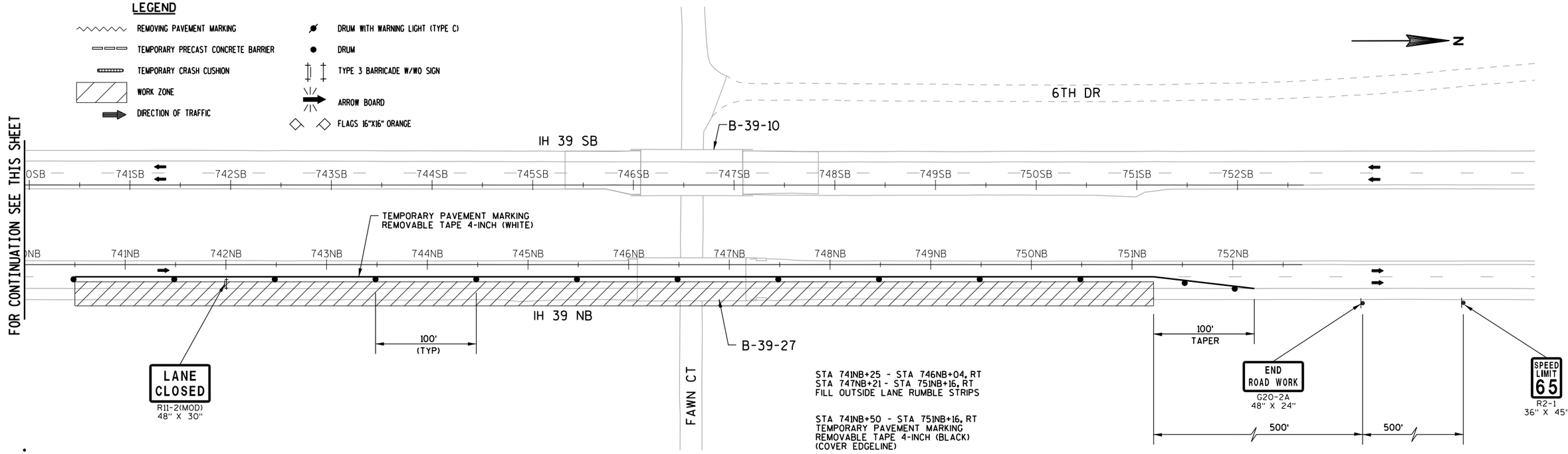
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE IB (STH 23/82 AND FAWN CT)	SHEET 85	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025041_tclb_NB_IH39_82_Fawn.dgn
BATCH PRINT SHEET 56 OF 92
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PLOT DATE: 1/29/2015
PLOT TIME: 2:49:56 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



NOTE:

CONTINUE OUTSIDE LANE CLOSURE W/ DRUMS FROM STA 680NB+00 TO 740NB+00. THERE WILL ALSO BE 4 BARRICADES W/ LANE CLOSED SIGN R11-2(MOD) AT STA 689NB+00, STA 702NB+00, 715NB+00, AND 729NB+00.



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE IB (STH 23/82 AND FAWN CT)	SHEET 86	E

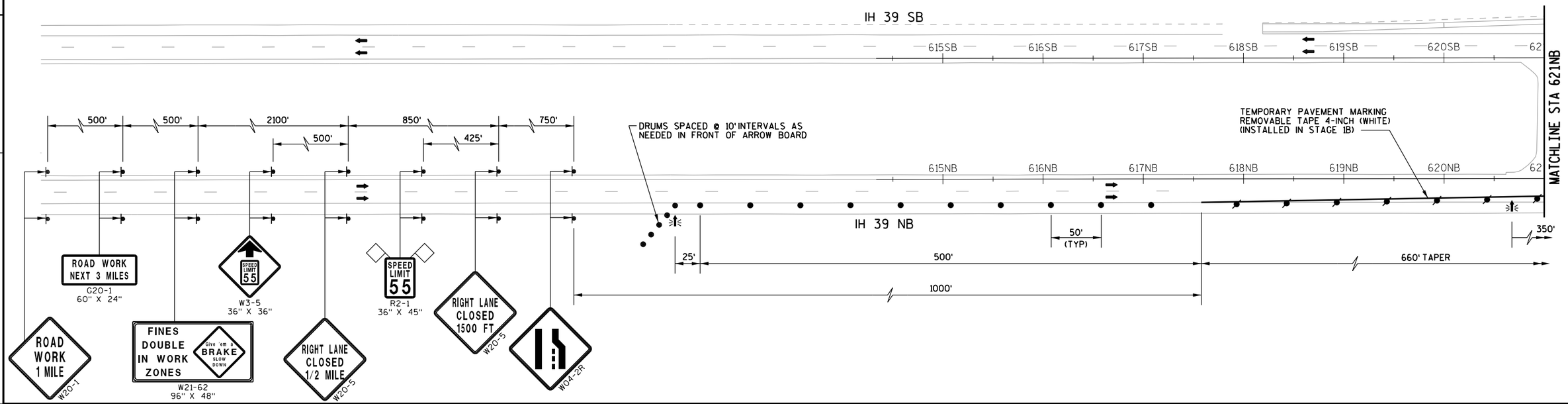
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WISDOT/CADDS SHEET 42

IH 39 NB STAGE 2A NOTES

1. IH 39 (TRAFFIC IN INSIDE LANE)
1.1 OUTSIDE LANE DECK REPAIRS
1.2 OUTSIDE LANE DECK POLYMER OVERLAY
1.3 OUTSIDE LANE BRIDGE APPROACHES

N

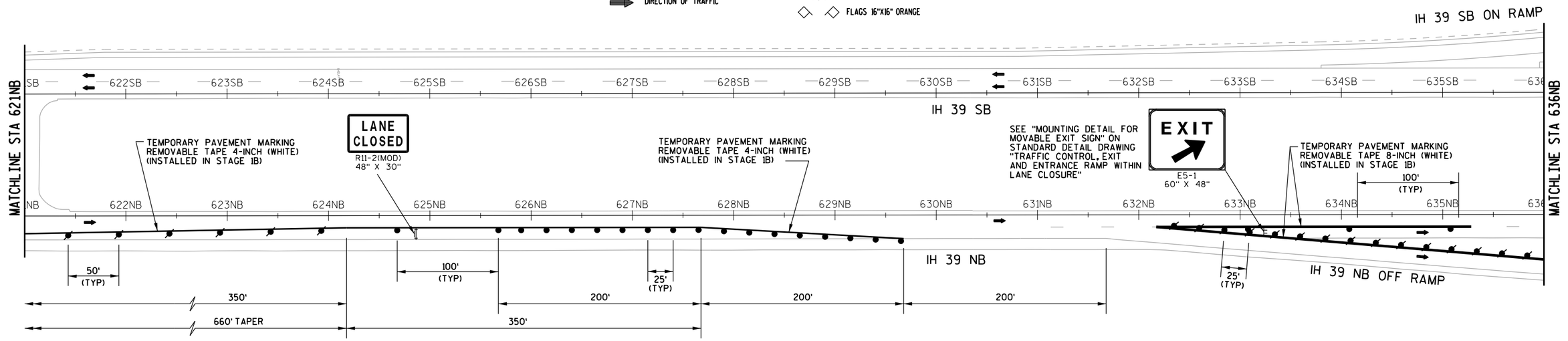
SCALE 0' 25' 50' 100'



LEGEND

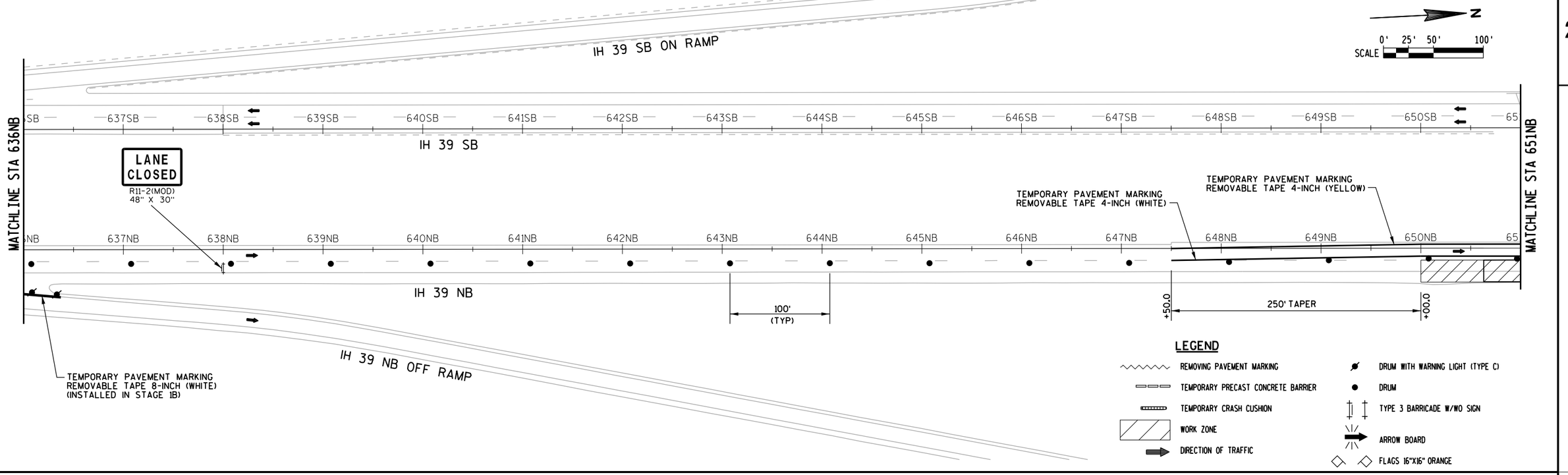
- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

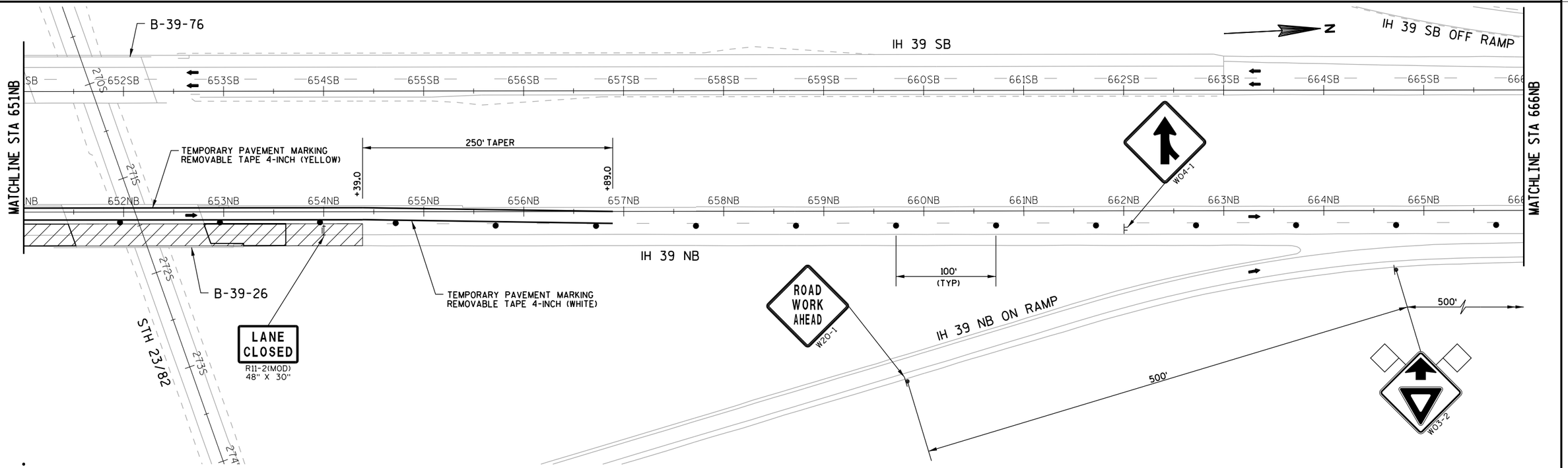
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PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE 2A (STH 23/82 AND FAWN CT)	SHEET 87	E

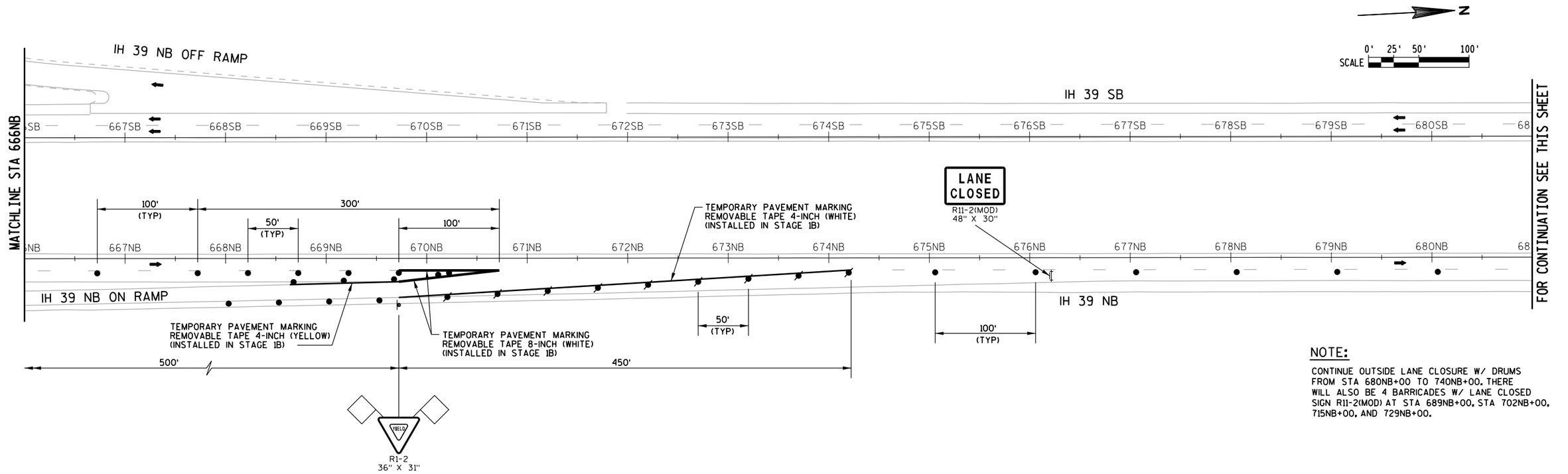
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WISDOT/CADDS SHEET 42





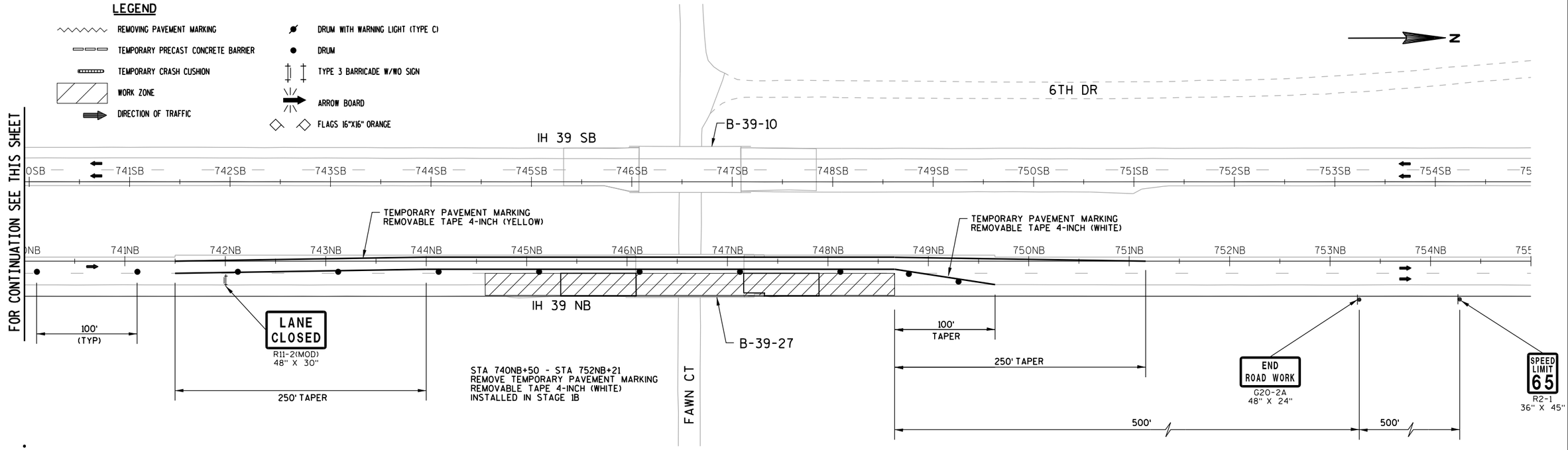
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE 2A (STH 23/82 AND FAWN CT)	SHEET 88	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025044_tc2a_NB_IH39_82_Fawn.dgn
BATCH PRINT SHEET 59 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



NOTE:

CONTINUE OUTSIDE LANE CLOSURE W/ DRUMS FROM STA 680NB+00 TO 740NB+00. THERE WILL ALSO BE 4 BARRICADES W/ LANE CLOSED SIGN R11-2(MOD) AT STA 689NB+00, STA 702NB+00, 715NB+00, AND 729NB+00.



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE 2A (STH 23/82 AND FAWN CT)	SHEET 89	E

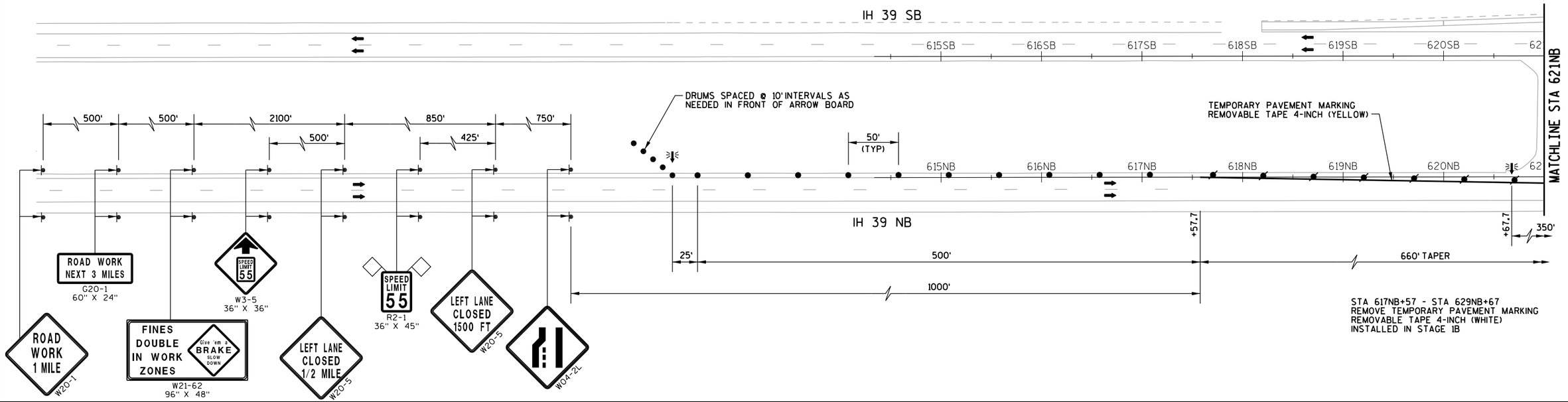
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BATCH PRINT SHEET 60 OF 92
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WISDOT/CADDS SHEET 42

IH 39 NB STAGE 2B NOTES

1. IH 39 (TRAFFIC IN OUTSIDE LANE)
1.1 INSIDE LANE DECK REPAIRS
1.2 INSIDE LANE DECK POLYMER OVERLAY
1.3 INSIDE LANE BRIDGE APPROACHES

N

SCALE 0' 25' 50' 100'

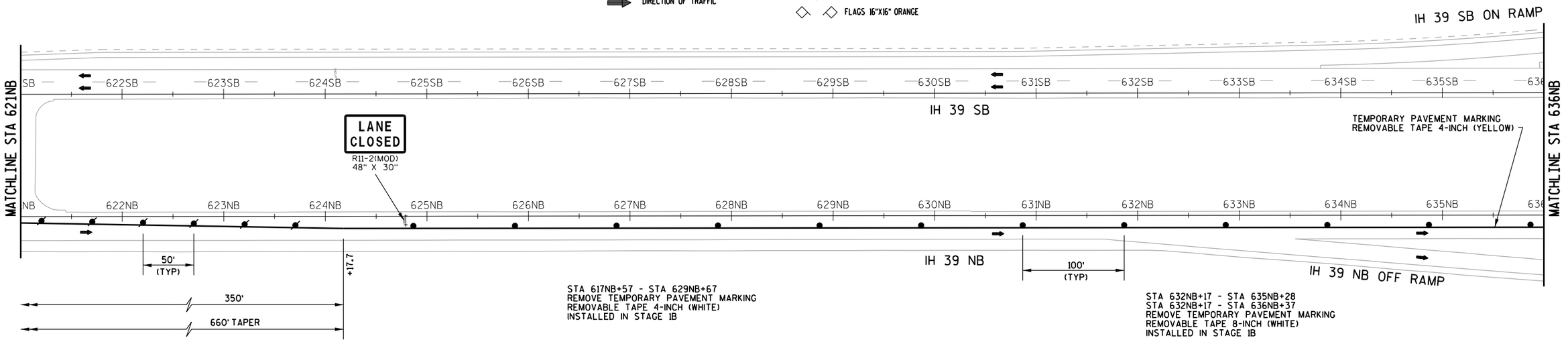


STA 617NB+57 - STA 629NB+67
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)
INSTALLED IN STAGE 1B

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

N

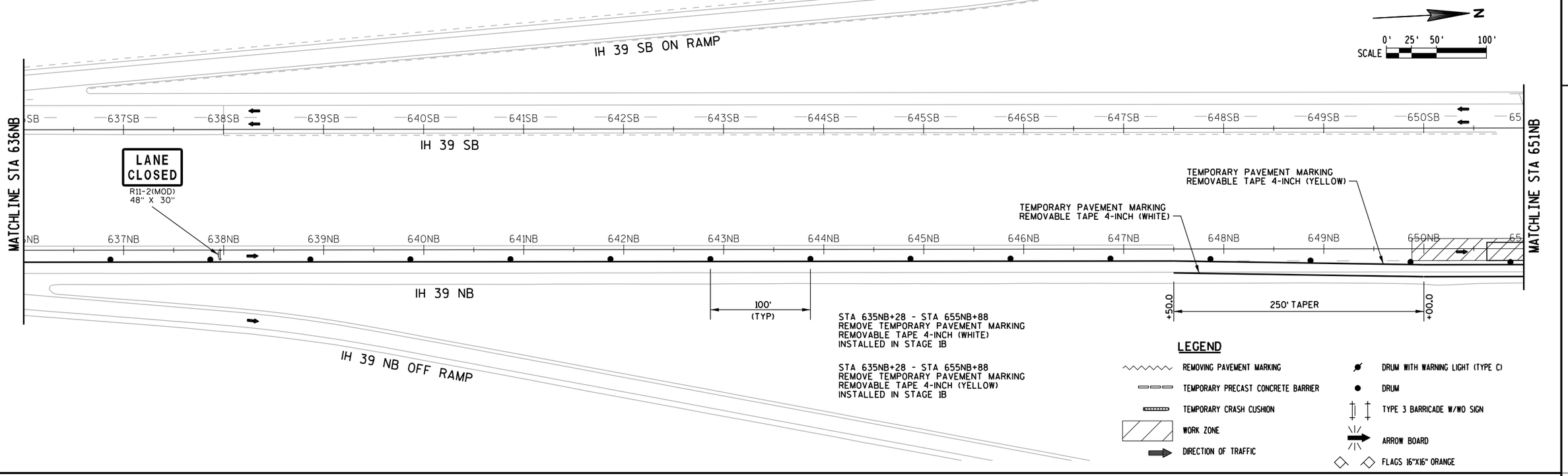


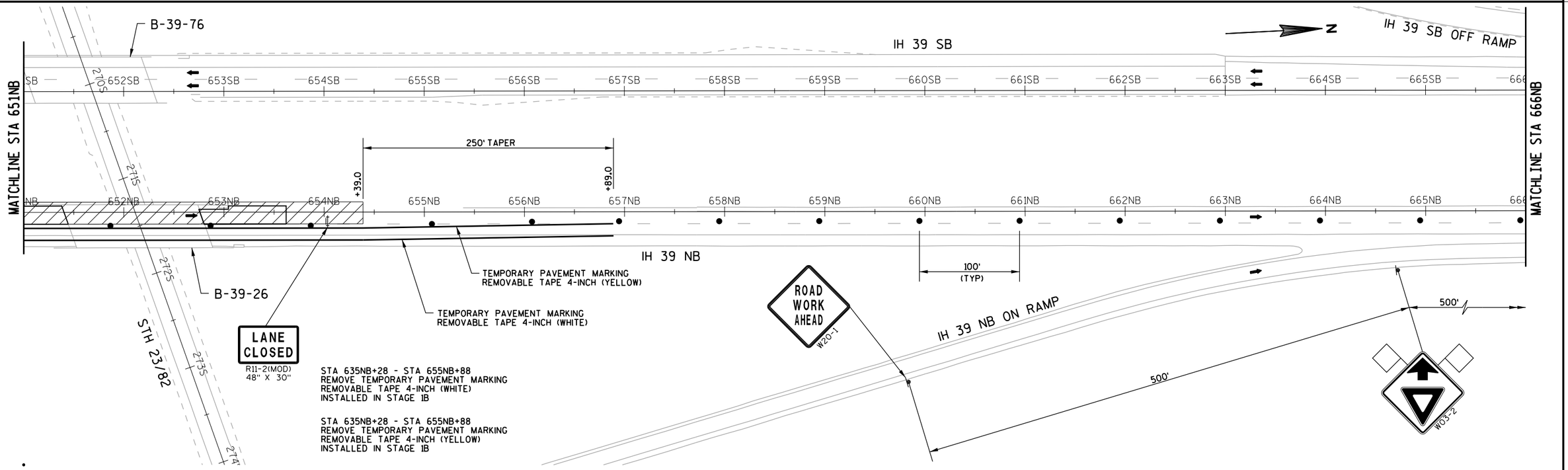
STA 617NB+57 - STA 629NB+67
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)
INSTALLED IN STAGE 1B

STA 632NB+17 - STA 635NB+28
STA 632NB+17 - STA 636NB+37
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 8-INCH (WHITE)
INSTALLED IN STAGE 1B

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE 2B (STH 23/82 AND FAWN CT)	SHEET 90	E

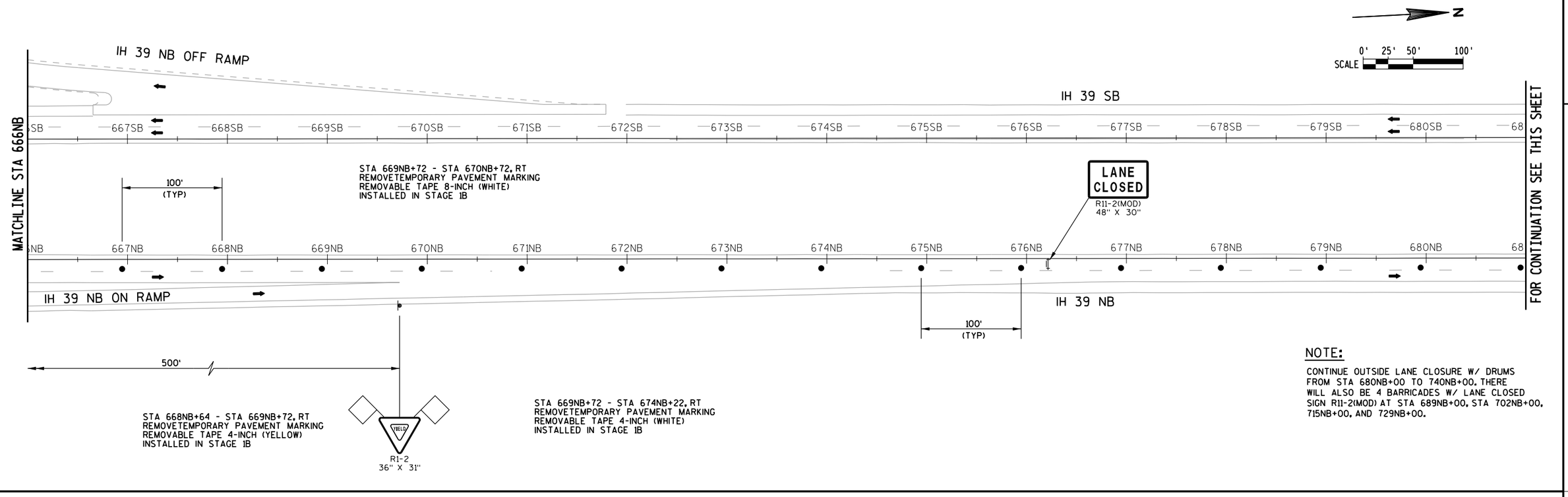
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BATCH PRINT SHEET 61 OF 92
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WISDOT/CADDS SHEET 42

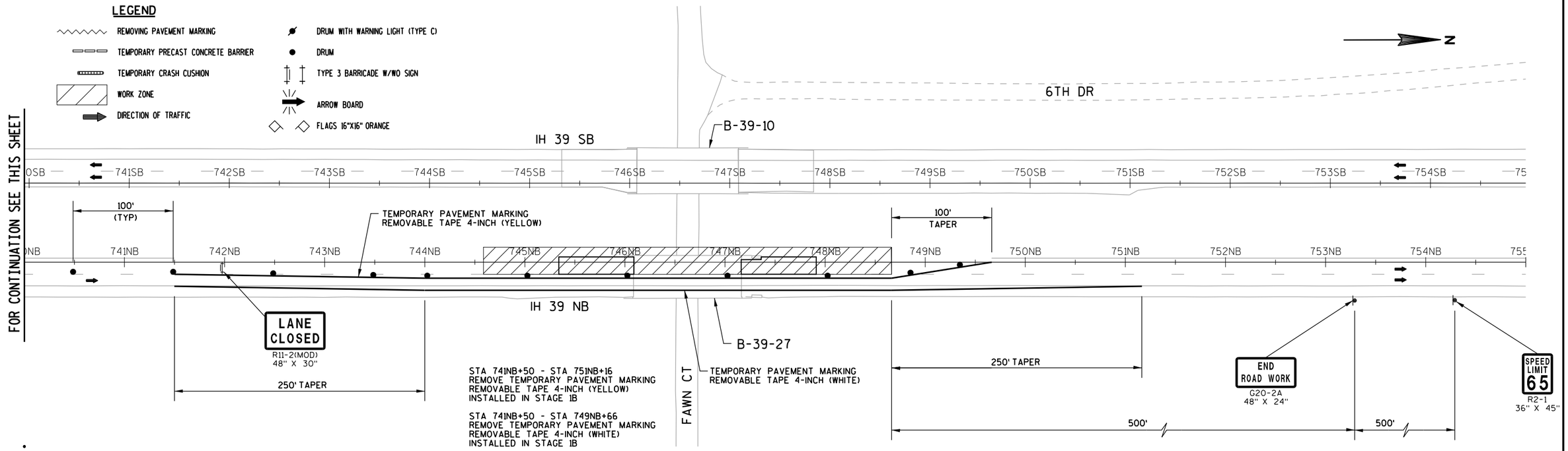




PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE 2B (STH 23/82 AND FAWN CT)	SHEET 91	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025047_tc2b_NB_IH39_82_Fawn.dgn
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PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:50:13 PM
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WISDOT/CADDS SHEET 42



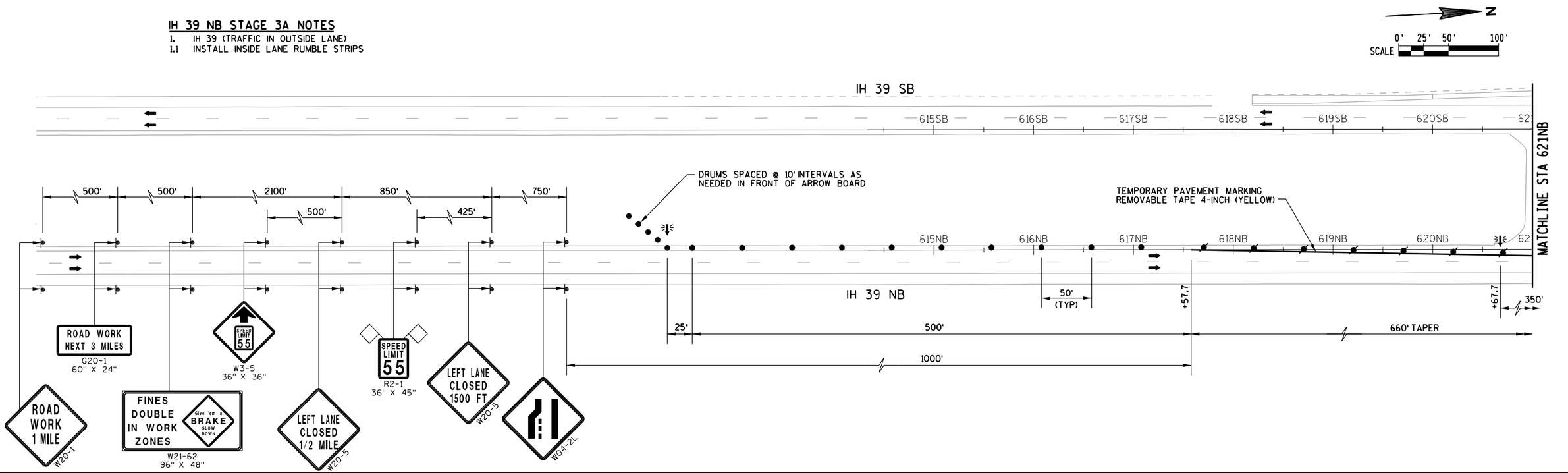


PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE 2B (STH 23/82 AND FAWN CT)	SHEET 92	E

FILE NAME: L:\Work\Projects\602402622\000_CAD\001_Drawings\Sheets\025048_tc2b_NB_IH39_82_Fawn.dgn
BATCH PRINT SHEET 63 OF 92
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PEN TABLE: L:\Work\Projects\602402622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:50:15 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

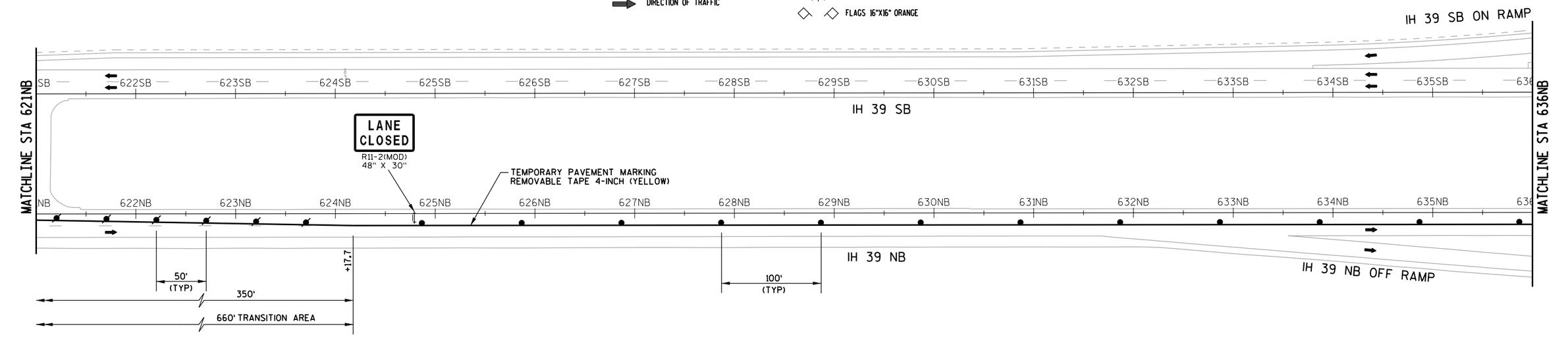
IH 39 NB STAGE 3A NOTES

1. IH 39 (TRAFFIC IN OUTSIDE LANE)
1.1 INSTALL INSIDE LANE RUMBLE STRIPS



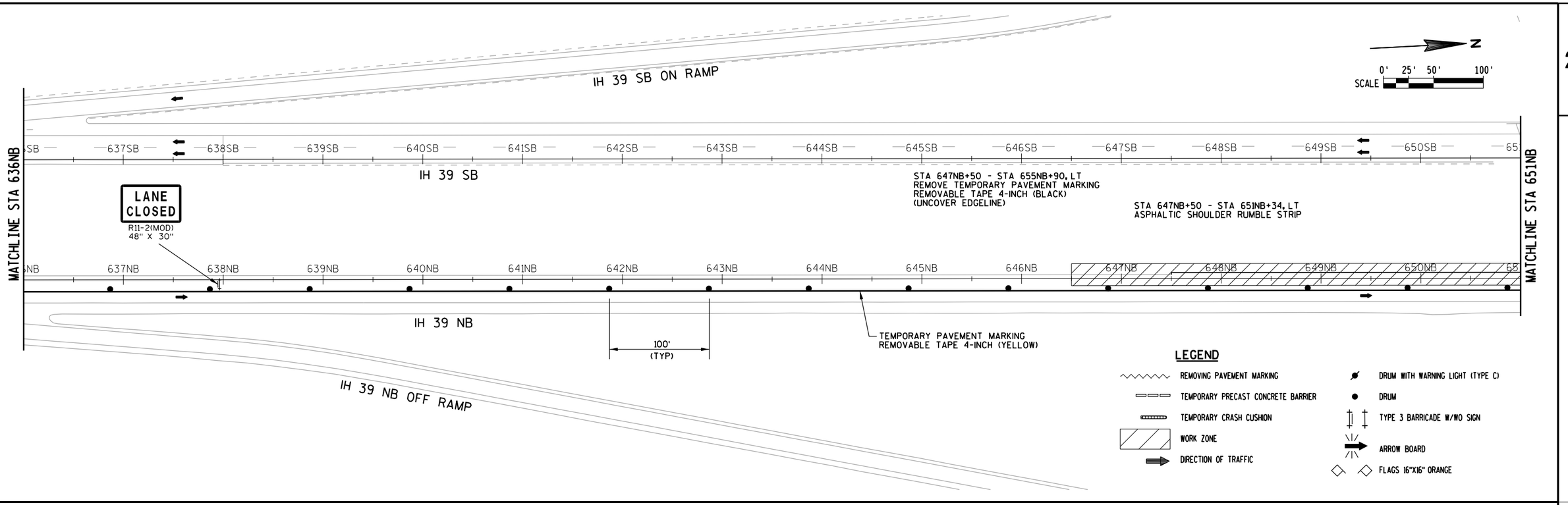
LEGEND

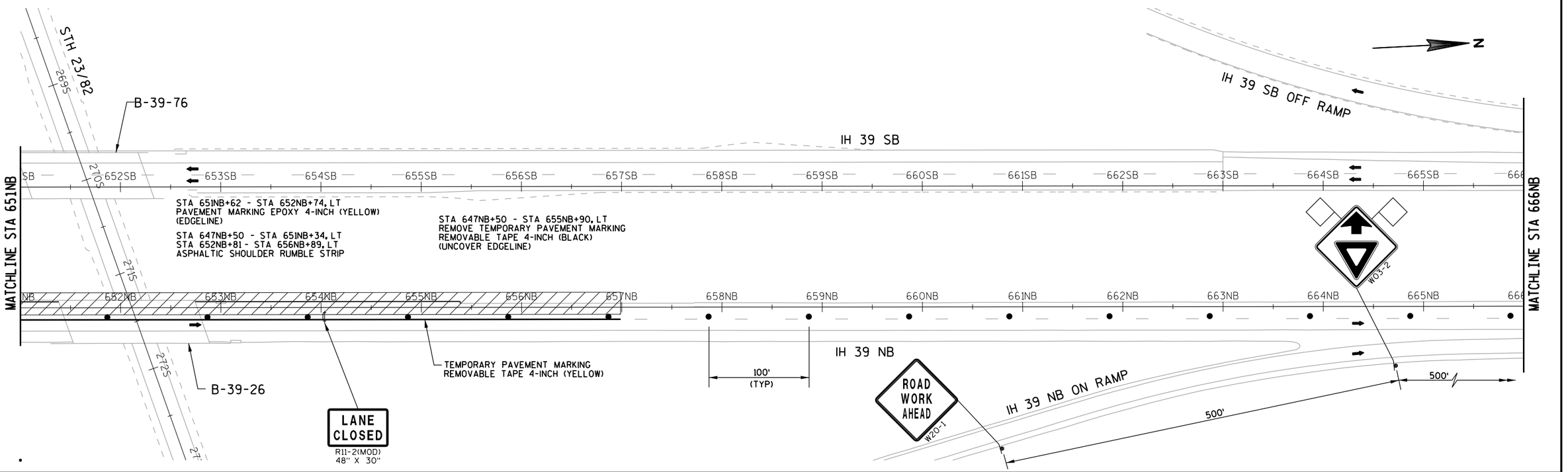
- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE 3A (STH 23/82 AND FAWN CT)	SHEET 93	E

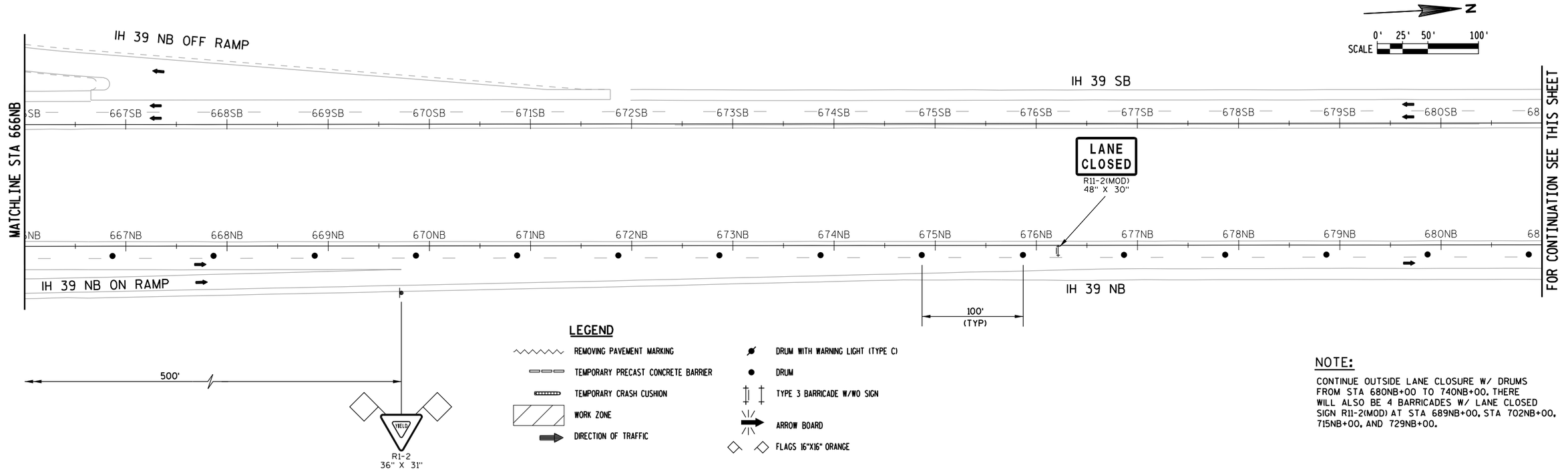
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WISDOT/CADDS SHEET 42





PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE 3A (STH 23/82 AND FAWN CT)	SHEET 94	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025050_tc3a_NB_IH39_82_Fawn.dgn
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PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

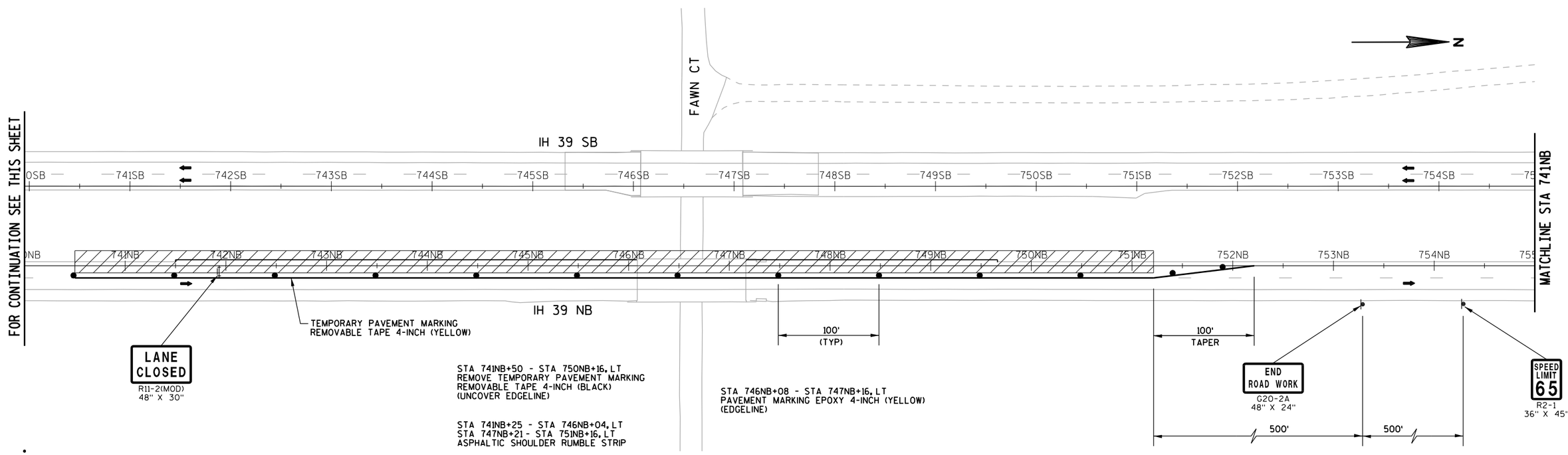


LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

NOTE:

CONTINUE OUTSIDE LANE CLOSURE W/ DRUMS FROM STA 680NB+00 TO 740NB+00. THERE WILL ALSO BE 4 BARRICADES W/ LANE CLOSED SIGN R11-2(MOD) AT STA 689NB+00, STA 702NB+00, 715NB+00, AND 729NB+00.



STA 741NB+50 - STA 750NB+16, LT
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(UNCOVER EDGELINE)

STA 741NB+25 - STA 746NB+04, LT
STA 747NB+21 - STA 751NB+16, LT
ASPHALTIC SHOULDER RUMBLE STRIP

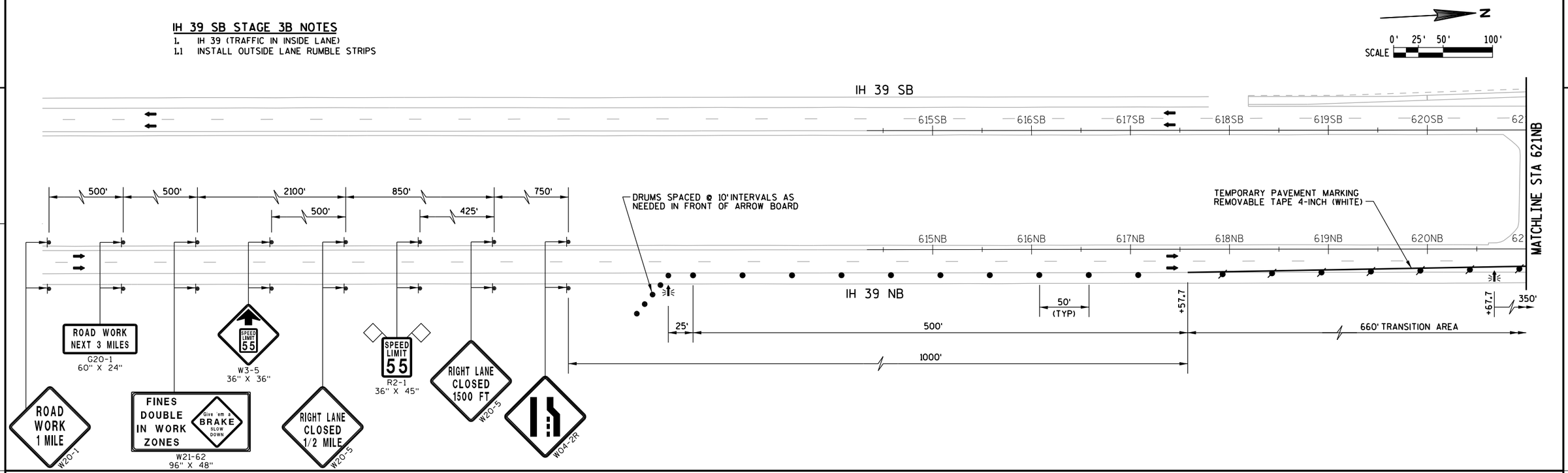
STA 746NB+08 - STA 747NB+16, LT
PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
(EDGELINE)

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE 3A (STH 23/82 AND FAWN CT)	SHEET 95	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025051_tc3a_NB_IH39_82_Fawn.dgn
BATCH PRINT SHEET 66 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:50:22 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

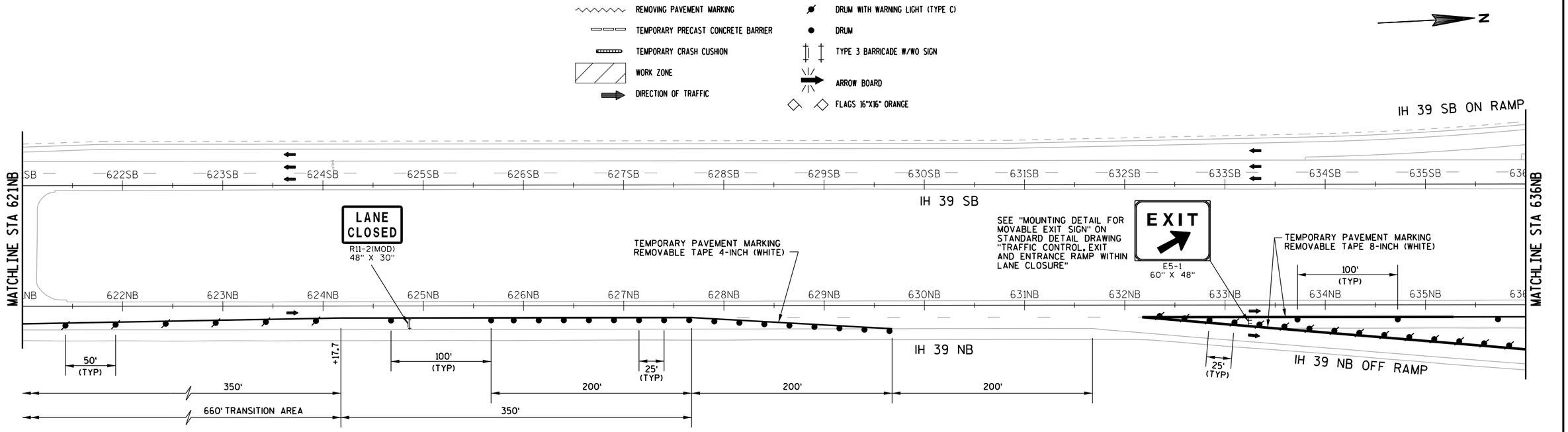
IH 39 SB STAGE 3B NOTES

1. IH 39 (TRAFFIC IN INSIDE LANE)
1.1 INSTALL OUTSIDE LANE RUMBLE STRIPS

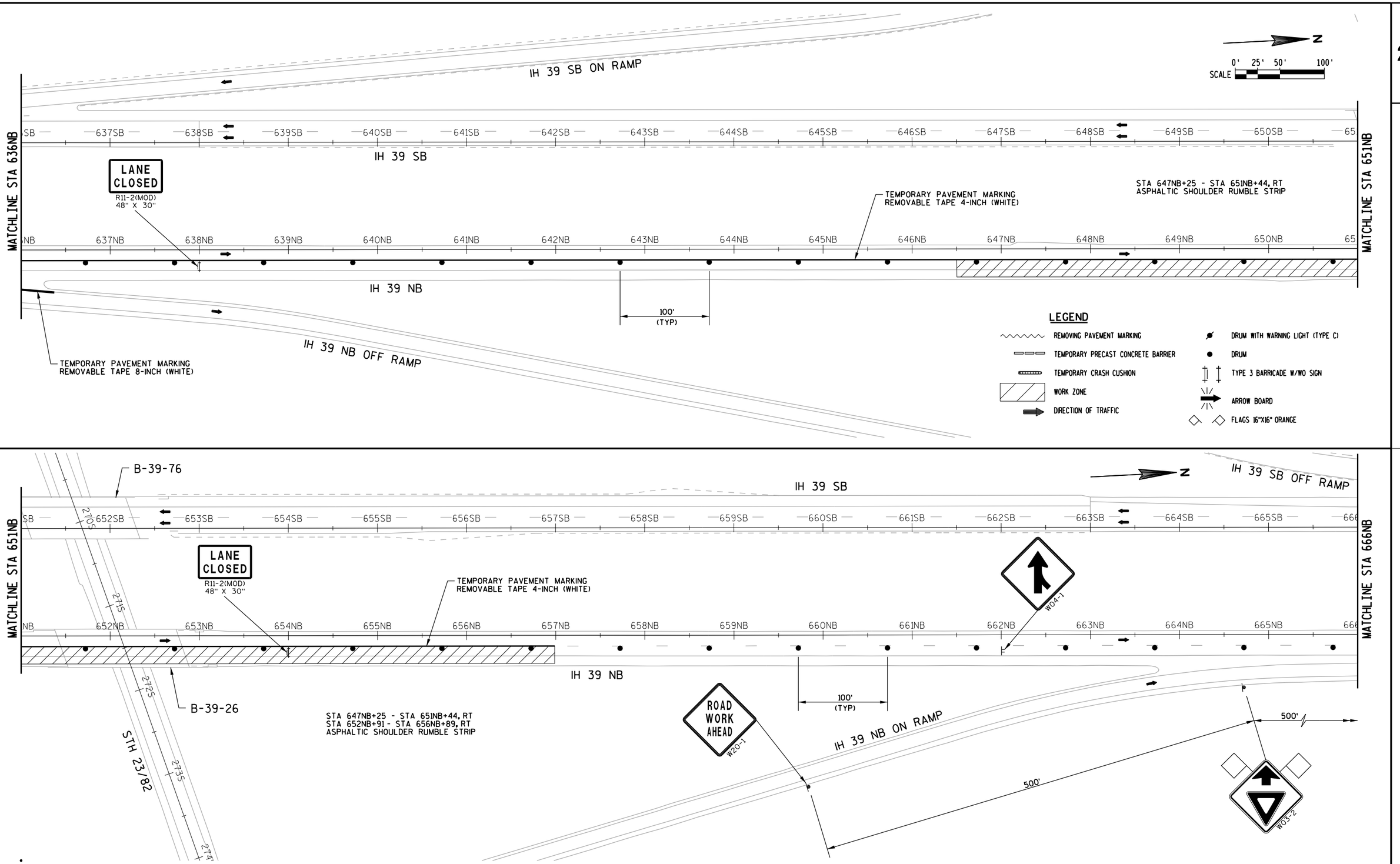


LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

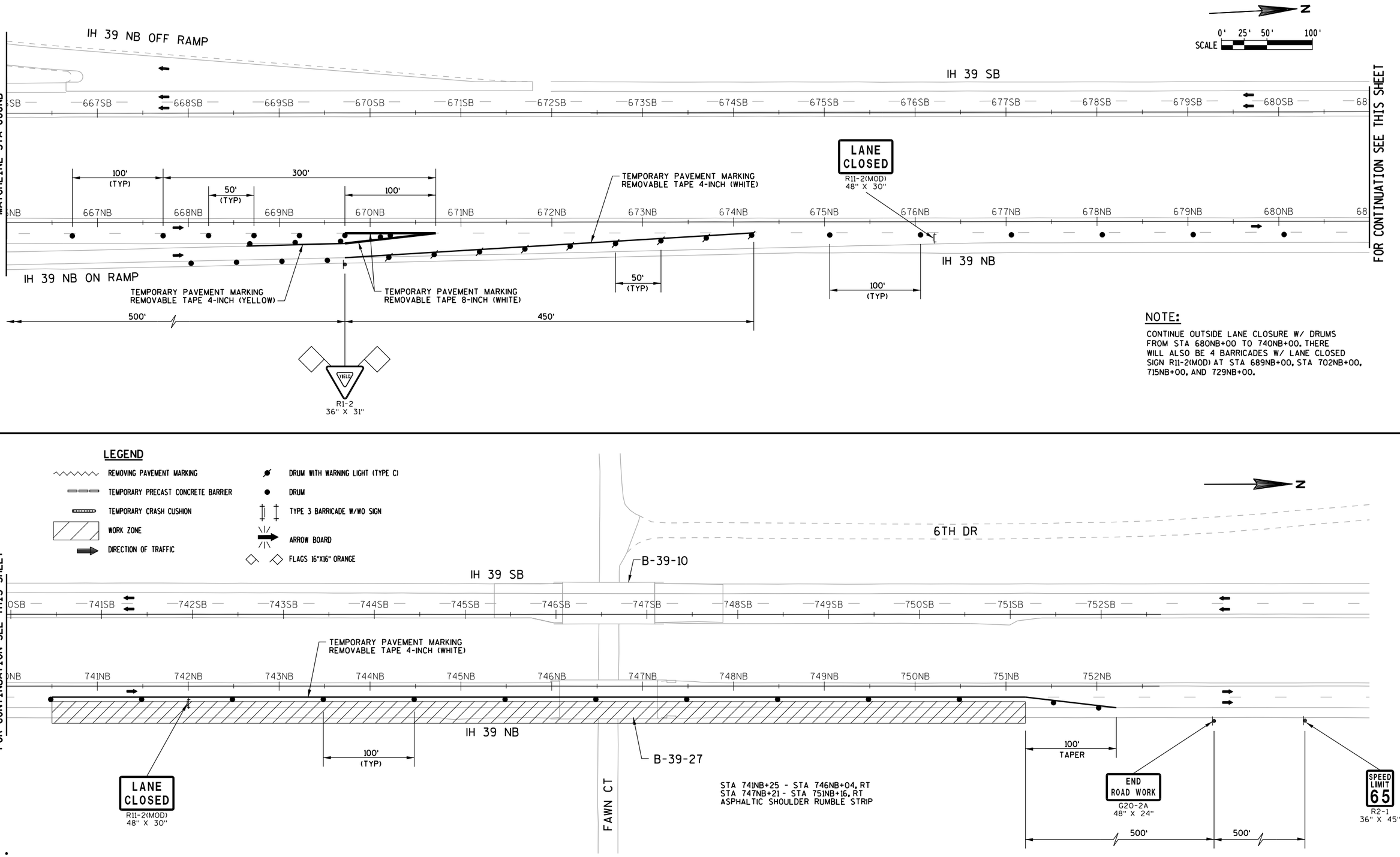


PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE 3B (STH 23/82 AND FAWN CT)	SHEET 96	E



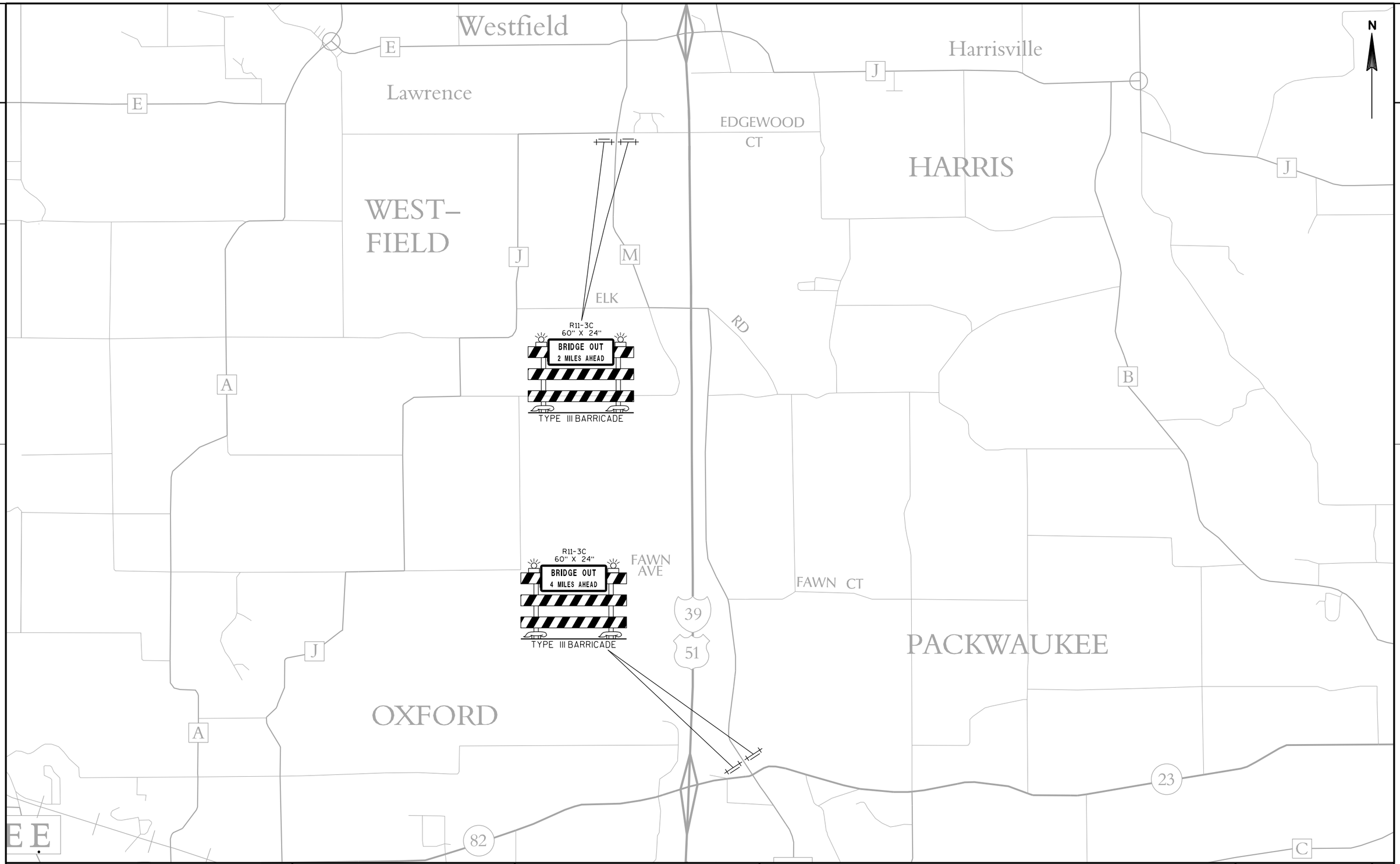
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE 3B (STH 23/82 AND FAWN CT)	SHEET 97	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025053_tc3b_NB_IH39_82_Fawn.dgn
BATCH PRINT SHEET 68 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:50:27 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH39 NB STAGE 3B (STH 23/82 AND FAWN CT)	SHEET 98	E

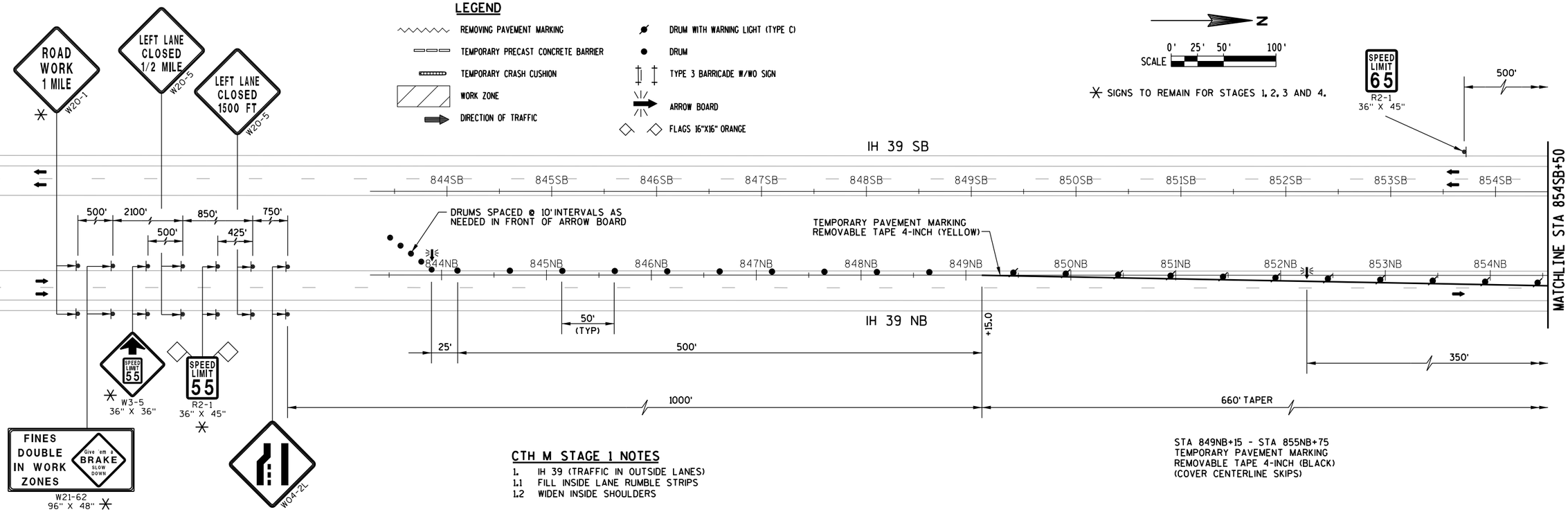
FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025054_tc3b_NB_IH39_82_Fawn.dgn
BATCH PRINT SHEET 69 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:50:29 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



2

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT CTH M STAGES 1, 2, 3, 4, AND 5	SHEET 99	E

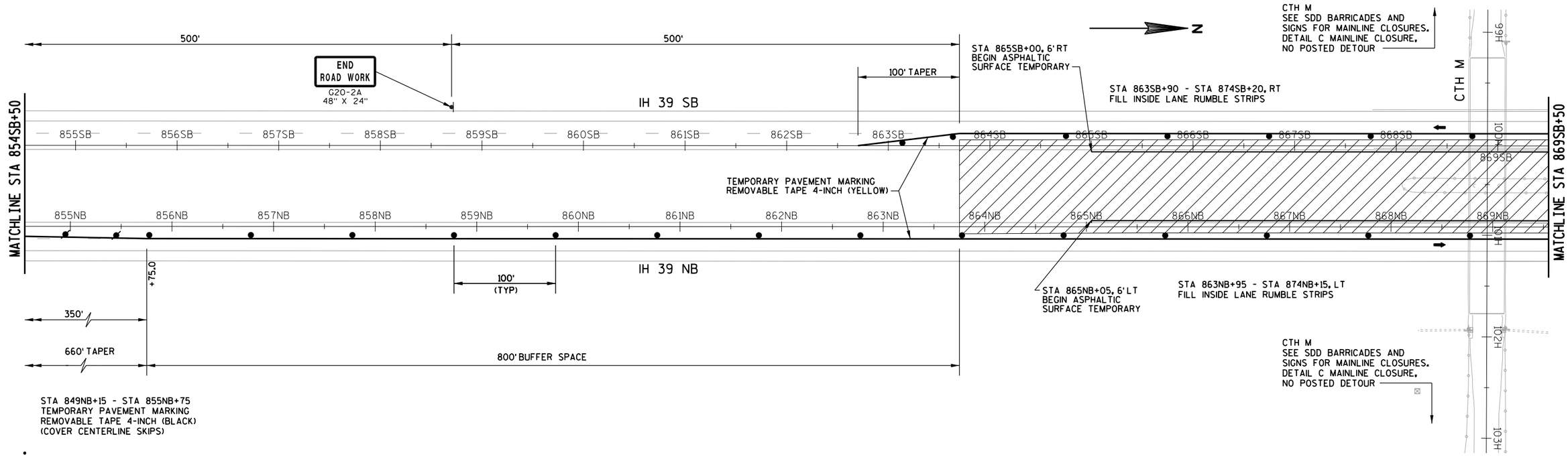
FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025055_tcl_cth_m.dgn
BATCH PRINT SHEET 70 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:50:33 PM
PLOT SCALE: 1:4000
WISDOT/CADDS SHEET 42



CTH M STAGE 1 NOTES

1. IH 39 (TRAFFIC IN OUTSIDE LANES)
1.1 FILL INSIDE LANE RUMBLE STRIPS
1.2 WIDEN INSIDE SHOULDERS

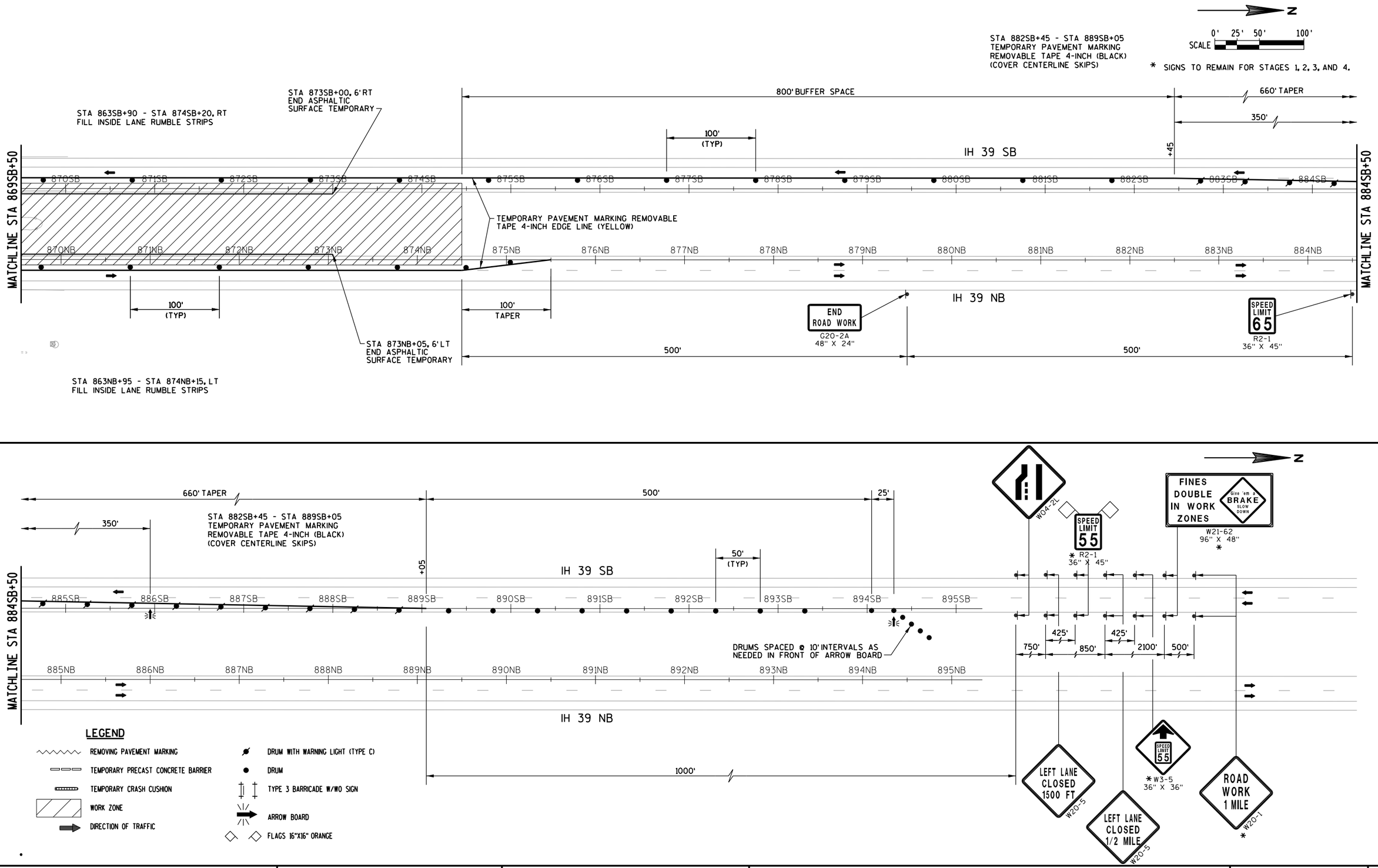
STA 849NB+15 - STA 855NB+75
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER CENTERLINE SKIPS)



STA 849NB+15 - STA 855NB+75
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER CENTERLINE SKIPS)

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT CTH M STAGE 1	SHEET 100	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025056_tcl_cth_m.dgn
BATCH PRINT SHEET 71 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:50:36 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

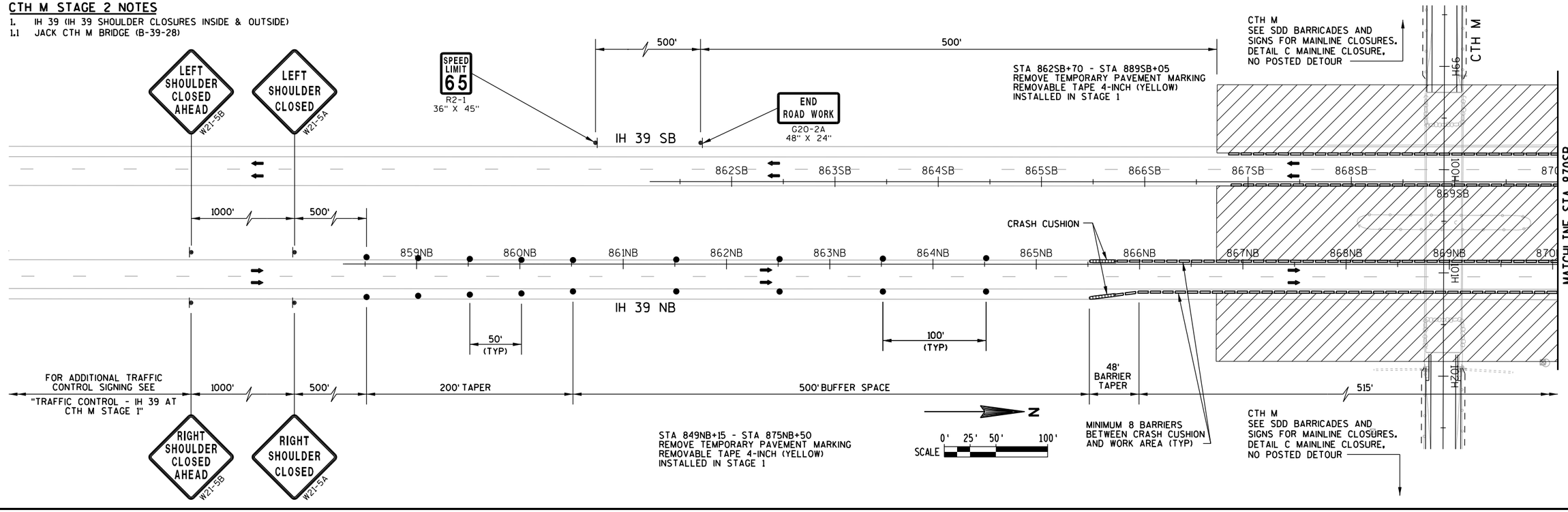


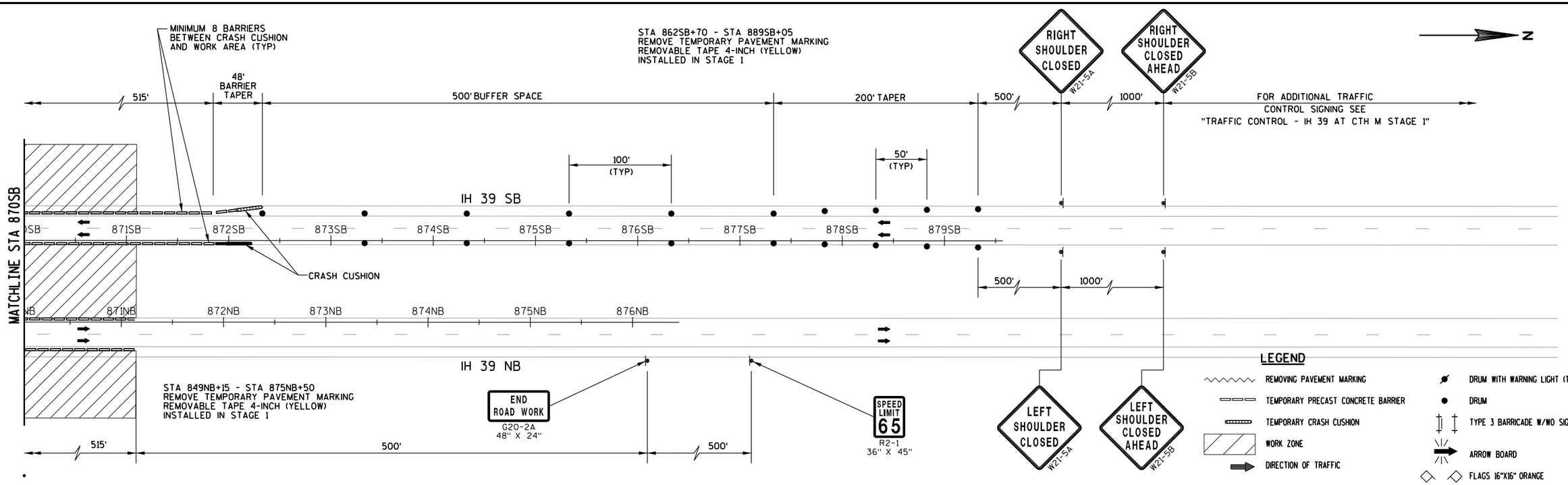
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT CTH M STAGE I	SHEET 101	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025057_tcl_cth_m.dgn
BATCH PRINT SHEET 72 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:50:39 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

CTH M STAGE 2 NOTES

1. IH 39 (IH 39 SHOULDER CLOSURES INSIDE & OUTSIDE)
1.1 JACK CTH M BRIDGE (B-39-28)





PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT CTH M STAGE 2	SHEET 102	E

LEGEND

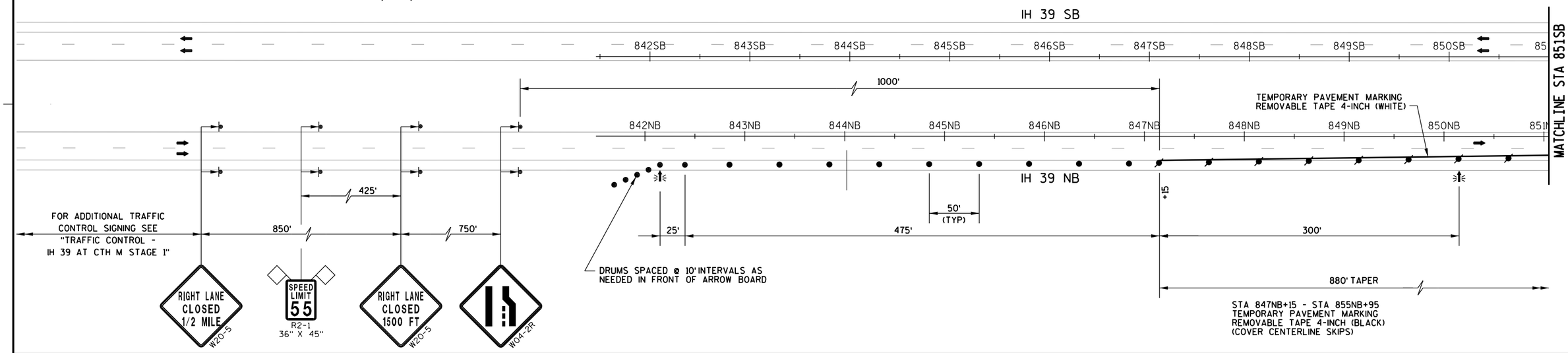
- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

CTH M STAGE 3 NOTES

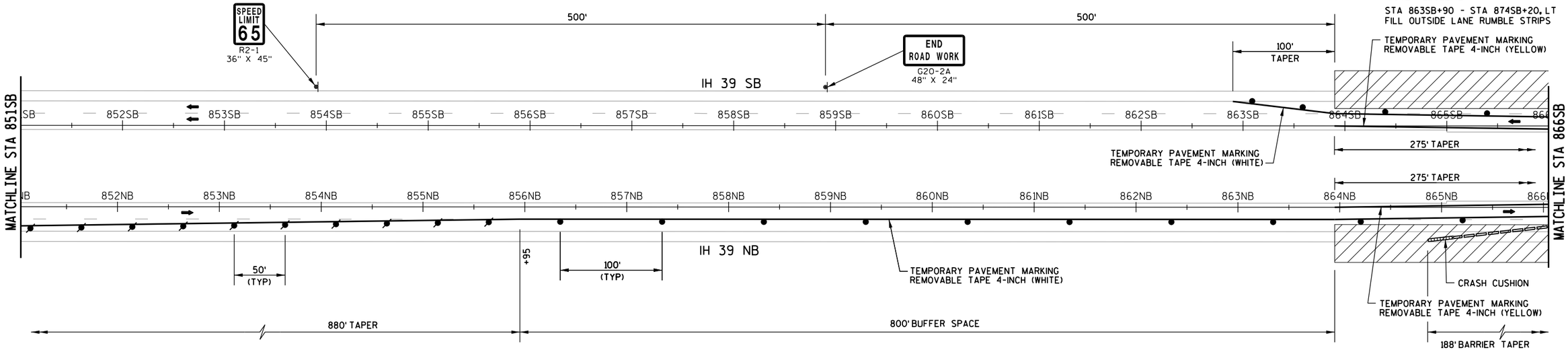
1. IH 39 (TRAFFIC IN INSIDE LANES)
1.1 PAINT OUTSIDE OF BRIDGE (B-39-28)
1.2 FILL OUTSIDE LANE RUMBLE STRIPS

N

SCALE 0' 25' 50' 100'



N



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT CTH M STAGE 3	SHEET 103	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025059_tc3_cth_m.dgn
BATCH PRINT SHEET 74 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:50:45 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

CTH M
SEE SDD BARRICADES AND SIGNS FOR MAINLINE CLOSURES. DETAIL C MAINLINE CLOSURE, NO POSTED DETOUR

STA 863SB+90 - STA 874SB+20, LT
FILL OUTSIDE LANE RUMBLE STRIPS

STA 863SB+90 - STA 874SB+20, RT
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER EDGELINE)

188' BARRIER TAPER

W5-52R
18" X 54"

CRASH CUSHION

800' BUFFER SPACE

100'
(TYP)

IH 39 SB

MATCHLINE STA 866SB

MATCHLINE STA 881SB

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

+35.0

275' TAPER

+10.0

+40.0

275' TAPER

+15.0

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)

IH 39 NB

END ROAD WORK
G20-2A
48" X 24"

188' BARRIER TAPER

W5-52R
18" X 54"

STA 863NB+95 - STA 874NB+15, LT
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER EDGELINE)

100'
(TYP)

100'
TAPER

500'

500'

CTH M
SEE SDD BARRICADES AND SIGNS FOR MAINLINE CLOSURES. DETAIL C MAINLINE CLOSURE, NO POSTED DETOUR

STA 863NB+95 - STA 874NB+15, RT
FILL OUTSIDE LANE RUMBLE STRIPS

N

SCALE 0' 25' 50' 100'

STA 882SB+10 - STA 890SB+90
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER CENTERLINE SKIPS)

800' BUFFER SPACE

880' TAPER

475'

25'

300'

50'
(TYP)

+10

+90

IH 39 SB

MATCHLINE STA 881SB

MATCHLINE STA 896SB

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)

1000'

IH 39 NB

500'

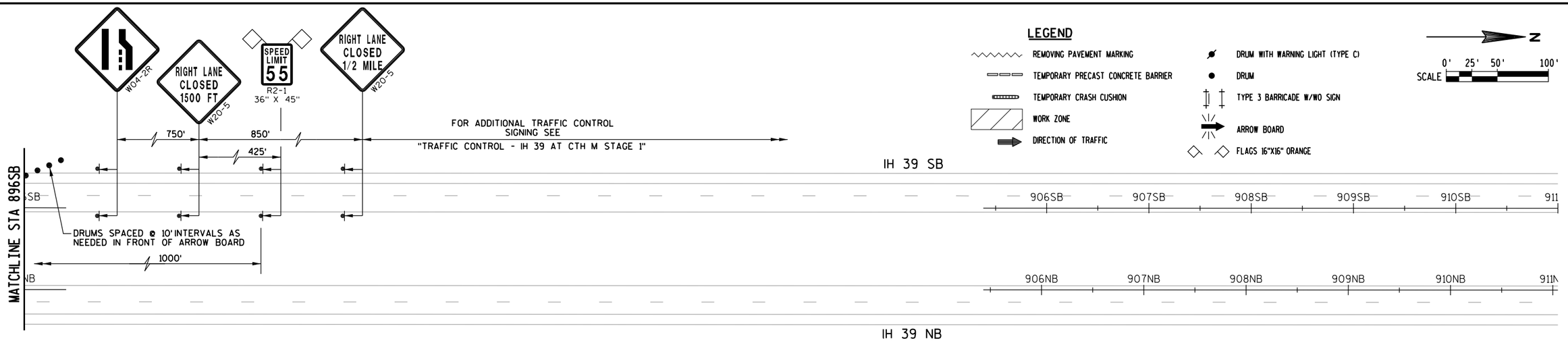
SPEED LIMIT 65
R2-1
36" X 45"

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT CTH M STAGE 3	SHEET 104	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025060_tc3_cth_m.dgn
BATCH PRINT SHEET 75 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:50:47 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



2

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT CTH M STAGE 3	SHEET 105	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025061_tc3_cth_m.dgn
BATCH PRINT SHEET 76 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:50:49 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

LEGEND

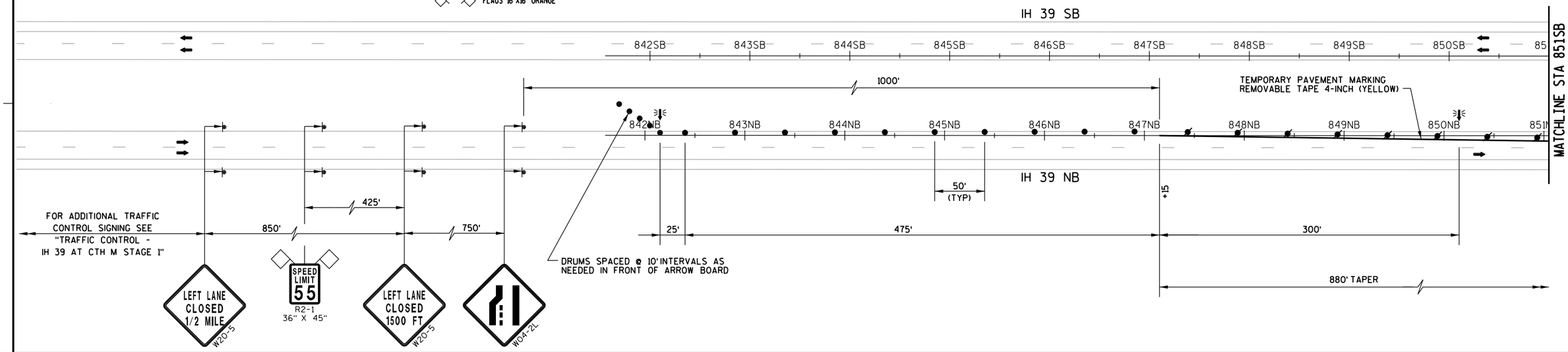
- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

CTH M STAGE 4 NOTES

1. IH 39 (TRAFFIC IN OUTSIDE LANES)
1.1 PAINT INSIDE OF BRIDGE (B-39-28)
1.2 INSTALL INSIDE LANE RUMBLE STRIPS

N

SCALE 0' 25' 50' 100'

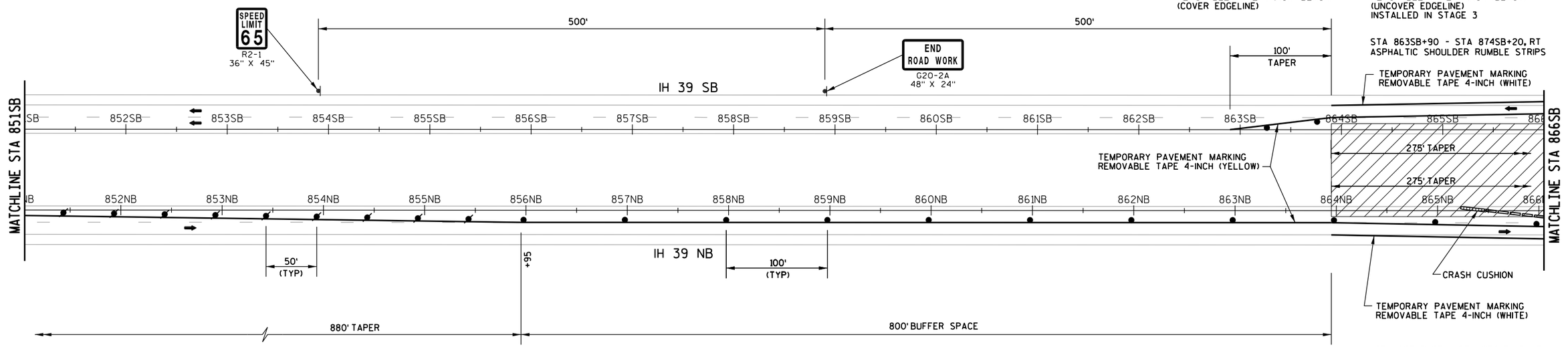


N

STA 863SB+90 - STA 874SB+20, LT
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER EDGELINE)

STA 863SB+90 - STA 874SB+20, RT
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(UNCOVER EDGELINE)
INSTALLED IN STAGE 3

STA 863SB+90 - STA 874SB+20, RT
ASPHALTIC SHOULDER RUMBLE STRIPS



STA 863NB+95 - STA 874NB+15, LT
ASPHALTIC SHOULDER RUMBLE STRIPS

STA 863NB+95 - STA 874NB+15, RT
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER EDGELINE)

STA 863NB+95 - STA 874NB+15, LT
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(UNCOVER EDGELINE)
INSTALLED IN STAGE 3

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT CTH M STAGE 4	SHEET 106	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025062_tc4_cth_m.dgn
BATCH PRINT SHEET 77 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 1/29/2015
PLOT TIME: 2:50:52 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

STA 863SB+90 - STA 874SB+20, RT
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(UNCOVER EDGELINE)
INSTALLED IN STAGE 3

STA 863SB+90 - STA 874SB+20, LT
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER EDGELINE)

CTH M
SEE SDD BARRICADES AND
SIGNS FOR MAINLINE CLOSURES.
DETAIL C MAINLINE CLOSURE.
NO POSTED DETOUR

STA 863SB+90 - STA 874SB+20, RT
ASPHALTIC SHOULDER RUMBLE STRIPS

N

SCALE 0' 25' 50' 100'

W5-52L
18" X 54"

800' BUFFER SPACE

152' BARRIER TAPER

100'
(TYP)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)

CRASH CUSHION

IH 39 SB

MATCHLINE STA 866SB

MATCHLINE STA 881SB

867SB 868SB 869SB 870SB 871SB 872SB 873SB 874SB 875SB 876SB 877SB 878SB 879SB 880SB

867NB 868NB 869NB 870NB 871NB 872NB 873NB 874NB 875NB 876NB 877NB 878NB 879NB 880NB

+35.0 +40.0 +10.0 +15.0

275' TAPER

275' TAPER

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)

IH 39 NB

END
ROAD WORK
G20-2A
48" X 24"

100'
(TYP)

100'
TAPER

500'

500'

STA 863NB+95 - STA 874NB+15, RT
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER EDGELINE)

W5-52L
18" X 54"

STA 863NB+95 - STA 874NB+15, LT
ASPHALTIC SHOULDER RUMBLE STRIPS

STA 863NB+95 - STA 874NB+15, LT
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(UNCOVER EDGELINE)
INSTALLED IN STAGE 3

CTH M
SEE SDD BARRICADES AND
SIGNS FOR MAINLINE CLOSURES.
DETAIL C MAINLINE CLOSURE.
NO POSTED DETOUR

CTH M

H69

H01

H02

N

800' BUFFER SPACE

880' TAPER

475'

25'

300'

+10.0

+90.0

50'
(TYP)

IH 39 SB

MATCHLINE STA 881SB

MATCHLINE STA 896SB

882SB 883SB 884SB 885SB 886SB 887SB 888SB 889SB 890SB 891SB 892SB 893SB 894SB 895SB

882NB 883NB 884NB 885NB 886NB 887NB 888NB 889NB 890NB 891NB 892NB 893NB 894NB 895NB

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

1000'

IH 39 NB

500'

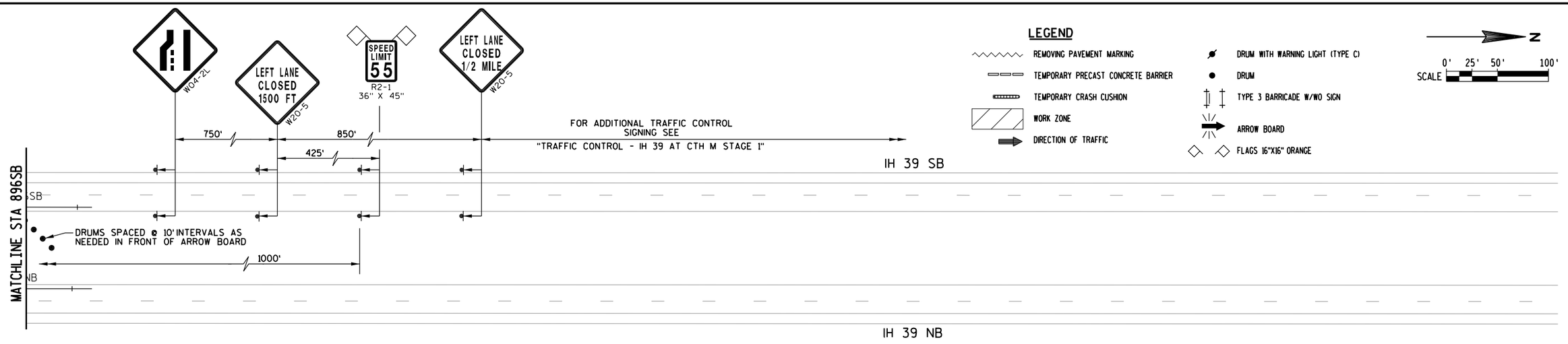
SPEED
LIMIT
65
R2-1
36" X 45"

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT CTH M STAGE 4	SHEET 107	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025063_tc4_cth_m.dgn
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PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:50:55 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



2

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT CTH M STAGE 4	SHEET 108	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025064_tc4_cth_m.dgn
BATCH PRINT SHEET 79 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:50:57 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

LEGEND

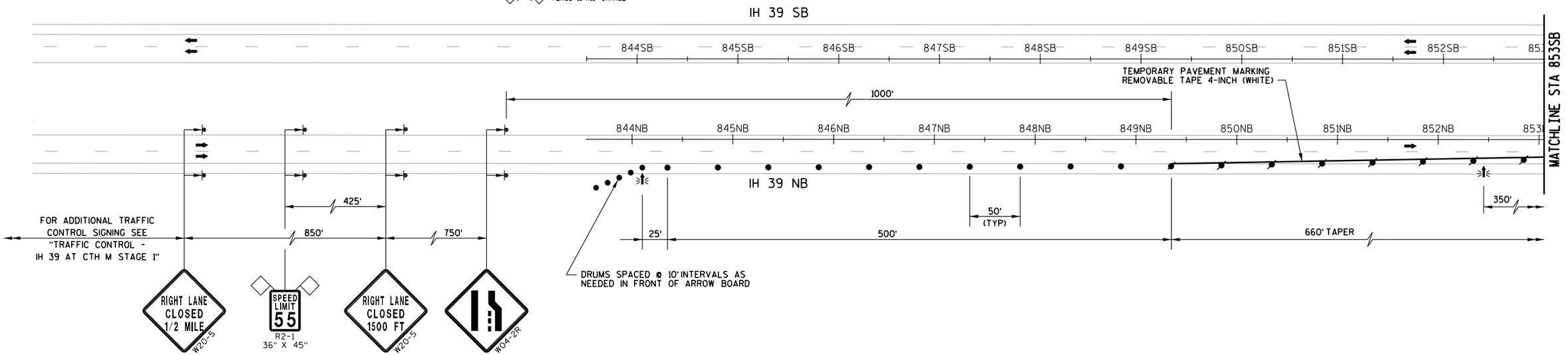
- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

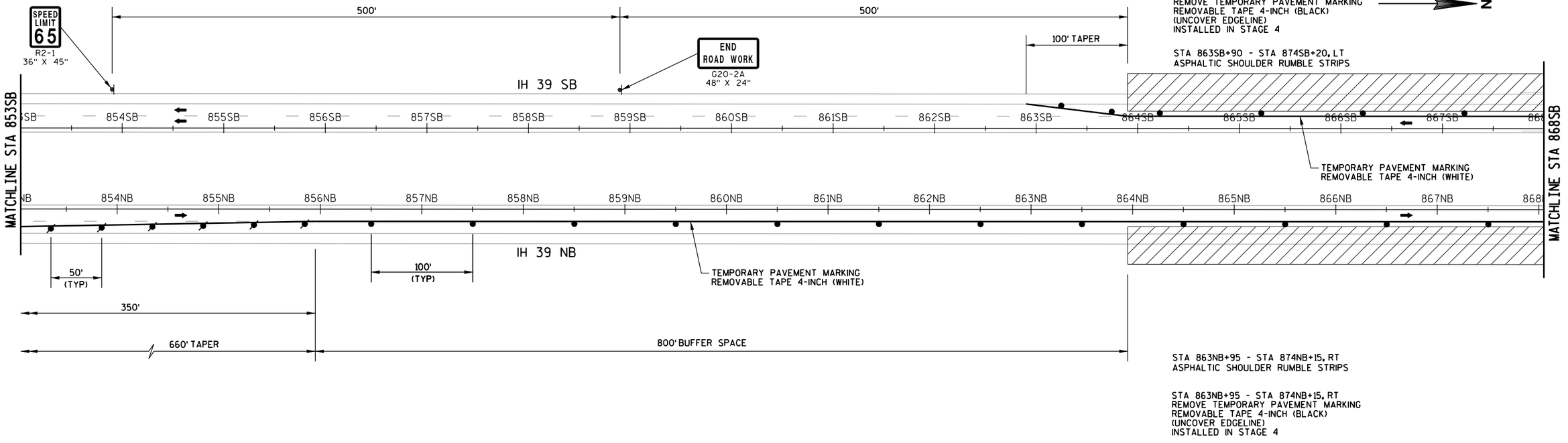
CTH M STAGE 5 NOTES

1. IH 39 (TRAFFIC IN INSIDE LANES)
1.1 INSTALL OUTSIDE LANE RUMBLE STRIPS

N

SCALE 0' 25' 50' 100'





STA 863SB+90 - STA 874SB+20, LT
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(UNCOVER EDGELINE)
INSTALLED IN STAGE 4

STA 863SB+90 - STA 874SB+20, LT
ASPHALTIC SHOULDER RUMBLE STRIPS

STA 863NB+95 - STA 874NB+15, RT
ASPHALTIC SHOULDER RUMBLE STRIPS

STA 863NB+95 - STA 874NB+15, RT
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(UNCOVER EDGELINE)
INSTALLED IN STAGE 4

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT CTH M STAGE 5	SHEET 109	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025065_tc5_cth_m.dgn
BATCH PRINT SHEET 80 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/29/2015
PLOT TIME: 2:51:00 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

CTH M
SEE SDD BARRICADES AND SIGNS FOR MAINLINE CLOSURES. DETAIL C MAINLINE CLOSURE.
NO POSTED DETOUR

STA 863SB+90 - STA 874SB+20, LT
REMOVE TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (BLACK) (UNCOVER EDGELINE)
INSTALLED IN STAGE 4

STA 863SB+90 - STA 874SB+20, LT
ASPHALTIC SHOULDER RUMBLE STRIPS

N

SCALE 0' 25' 50' 100'

800' BUFFER SPACE

660' TAPER

100' (TYP)

+10.0

IH 39 SB

MATCHLINE STA 868SB

MATCHLINE STA 883SB

H66

H01

H02

H03

H04

H05

H06

H07

H08

H09

H10

H11

H12

H13

H14

H15

H16

H17

H18

H19

H20

H21

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H28

H29

H30

H31

H32

H33

H34

H35

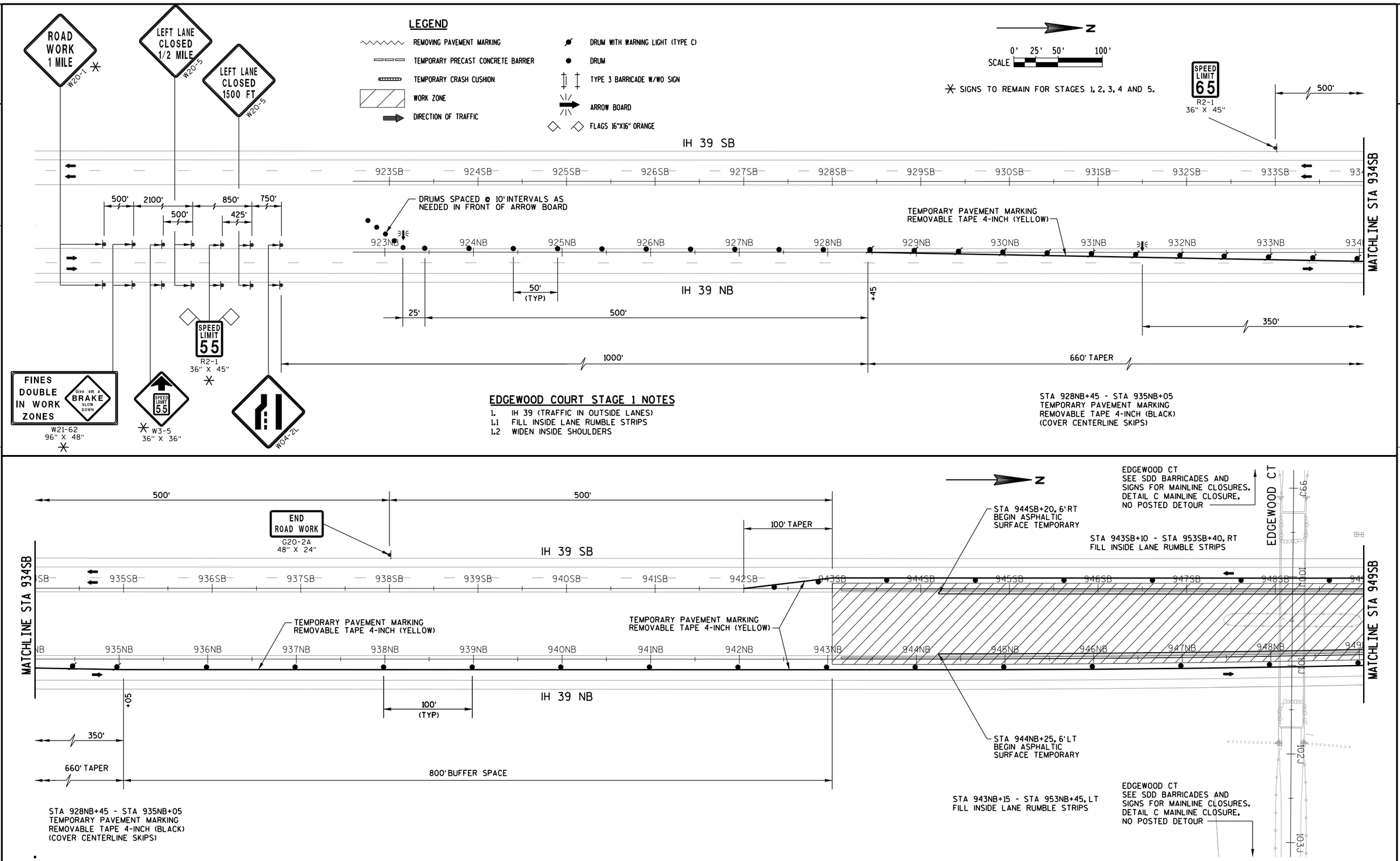
H36

H37

H38

H39

H40



EDGEWOOD COURT STAGE 1 NOTES

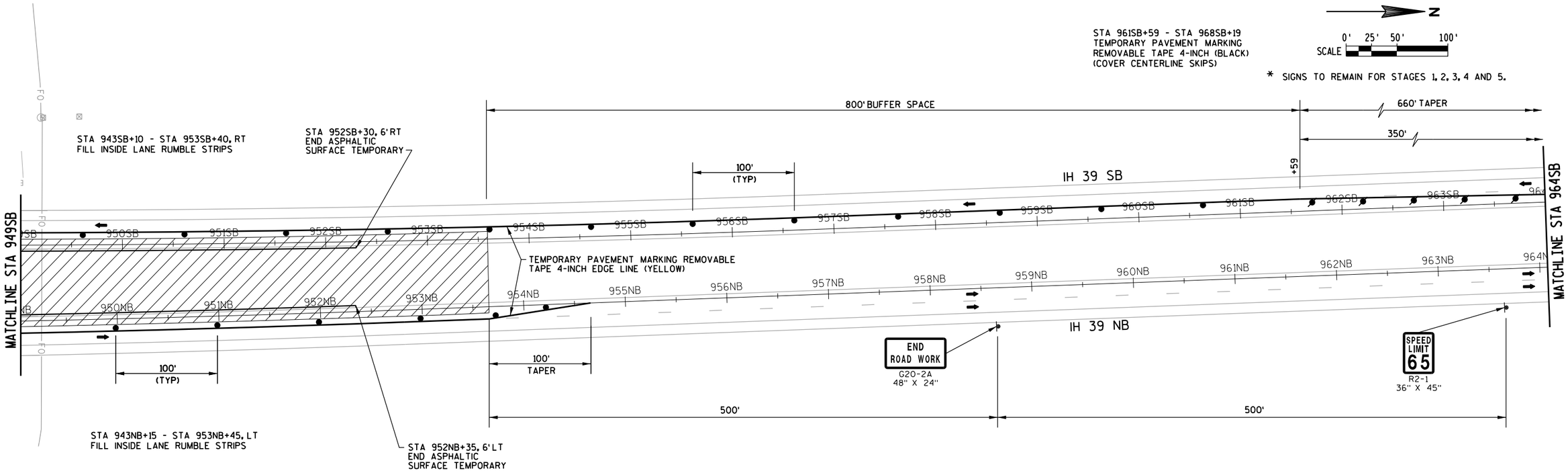
1. IH 39 (TRAFFIC IN OUTSIDE LANES)
1.1 FILL INSIDE LANE RUMBLE STRIPS
1.2 WIDEN INSIDE SHOULDERS

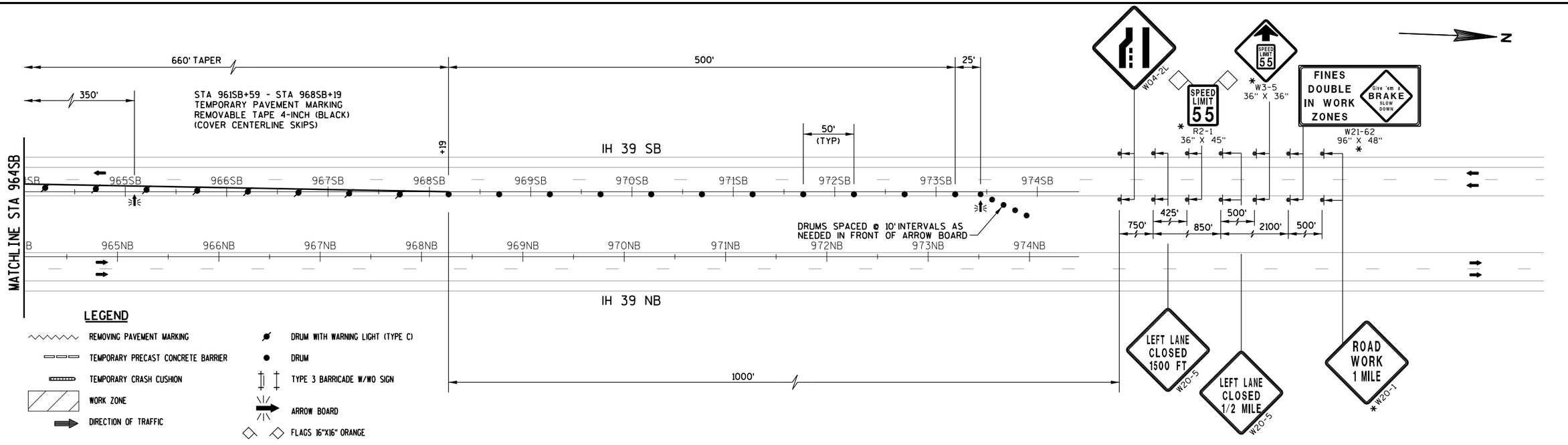
STA 928NB+45 - STA 935NB+05
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER CENTERLINE SKIPS)

STA 928NB+45 - STA 935NB+05
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER CENTERLINE SKIPS)

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT EDGEWOOD COURT STAGE 1	SHEET 111	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025067_tcl_edgewood.dgn
BATCH PRINT SHEET 82 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
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PLOT TIME: 2:51:05 PM
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WISDOT/CADDS SHEET 42



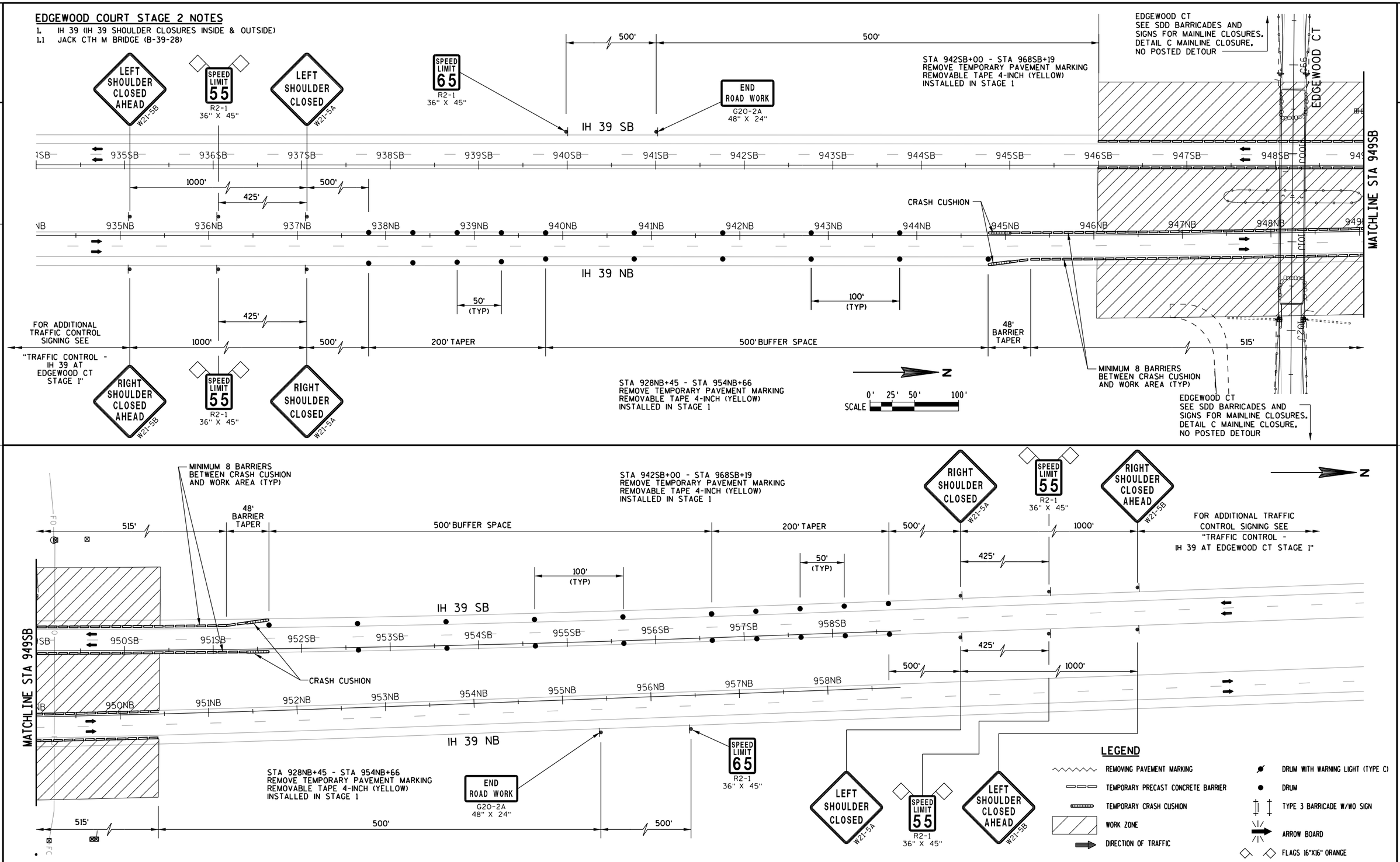


PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT EDGEWOOD CT STAGE 1	SHEET 112	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025068_tcl_edgewood.dgn
BATCH PRINT SHEET 83 OF 92
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

EDGEWOOD COURT STAGE 2 NOTES

1. IH 39 (IH 39 SHOULDER CLOSURES INSIDE & OUTSIDE)
1.1 JACK CTH M BRIDGE (B-39-28)



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT EDGEWOOD CT STAGE 2	SHEET 113	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025069_tc2_edgewood.dgn
BATCH PRINT SHEET 84 OF 92
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WISDOT/CADDS SHEET 42

EDGEWOOD COURT STAGE 3 NOTES

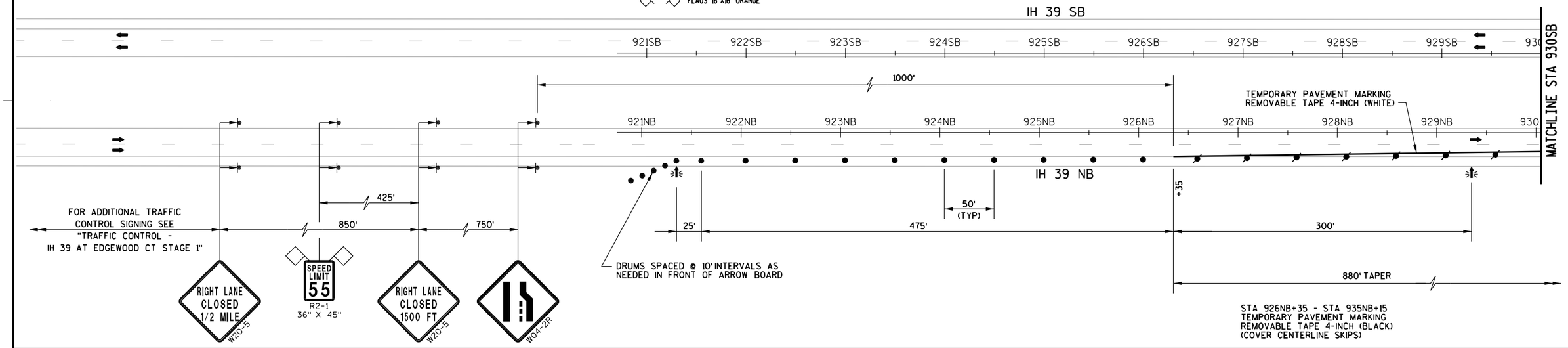
1. IH 39 (TRAFFIC IN INSIDE LANES)
1.1 PAINT OUTSIDE OF BRIDGE (B-39-28)
1.2 FILL OUTSIDE LANE RUMBLE STRIPS

LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

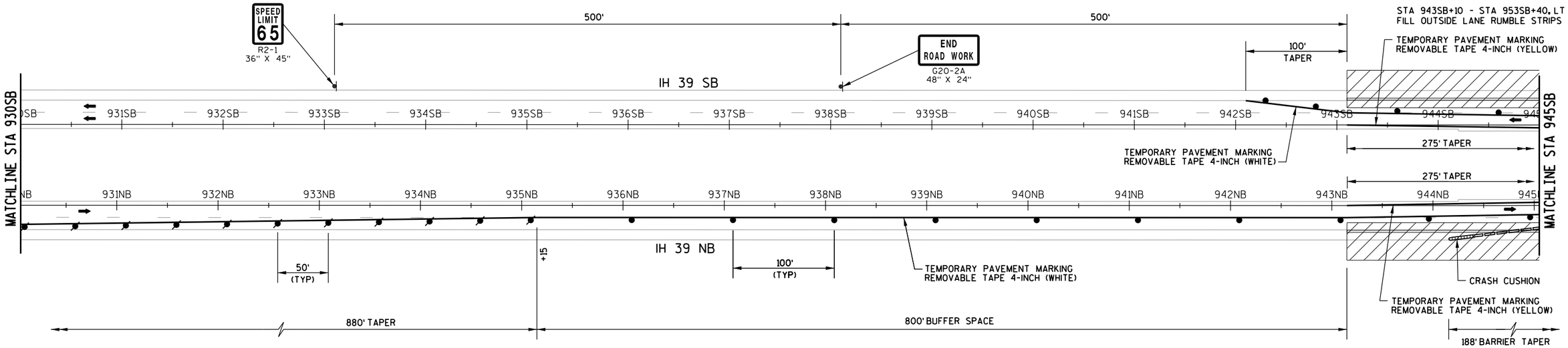
N

SCALE 0' 25' 50' 100'



STA 926NB+35 - STA 935NB+15
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER CENTERLINE SKIPS)

N



STA 926NB+35 - STA 935NB+15
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER CENTERLINE SKIPS)

STA 943SB+10 - STA 953SB+40, RT
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER EDGELINE)

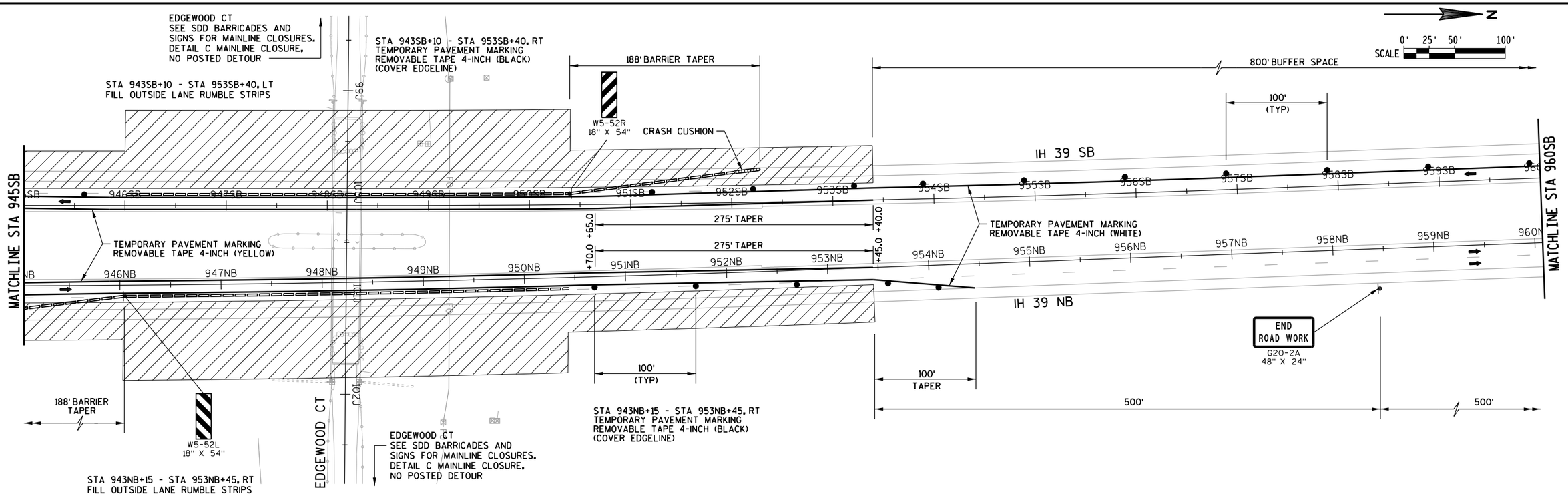
STA 943SB+10 - STA 953SB+40, LT
FILL OUTSIDE LANE RUMBLE STRIPS

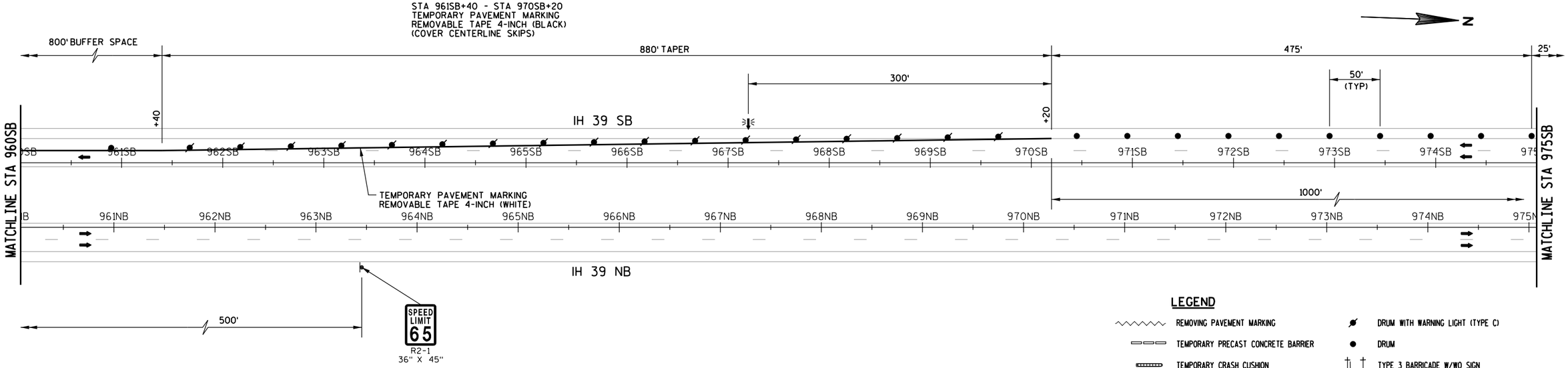
STA 943NB+15 - STA 953NB+45, RT
FILL OUTSIDE LANE RUMBLE STRIPS

STA 943NB+15 - STA 953NB+45, LT
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER EDGELINE)

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT EDGEWOOD CT STAGE 3	SHEET 114	E

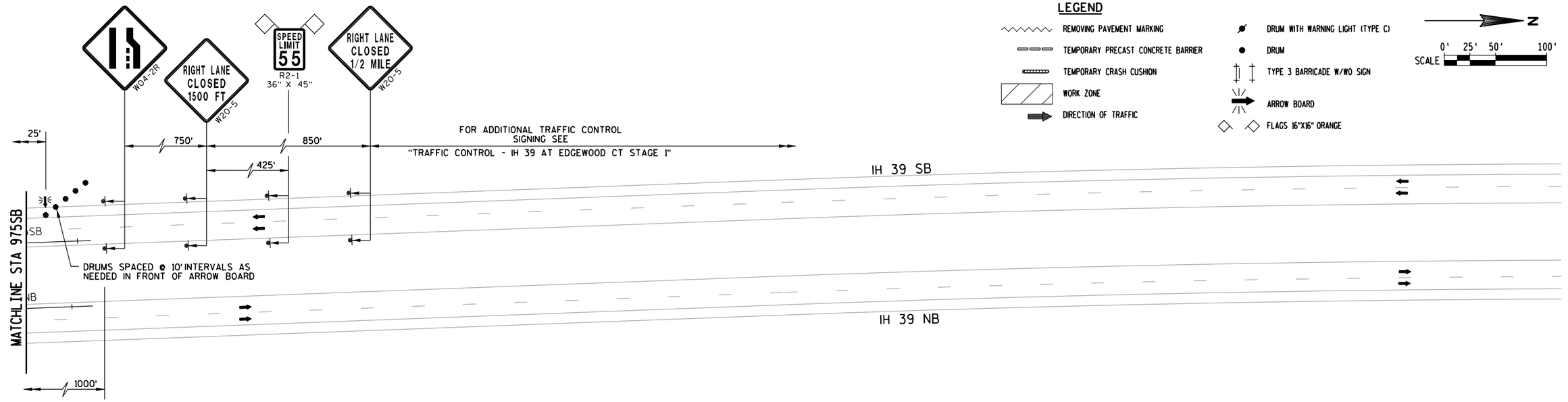
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WISDOT/CADDS SHEET 42





PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT EDGEWOOD CT STAGE 3	SHEET 115	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025071_tc3_edgewood.dgn
BATCH PRINT SHEET 86 OF 92
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PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



2

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT EDGEWOOD CT STAGE 3	SHEET 116	E

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BATCH PRINT SHEET 87 OF 92
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PLOT DATE: 1/29/2015
PLOT TIME: 2:51:17 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

LEGEND

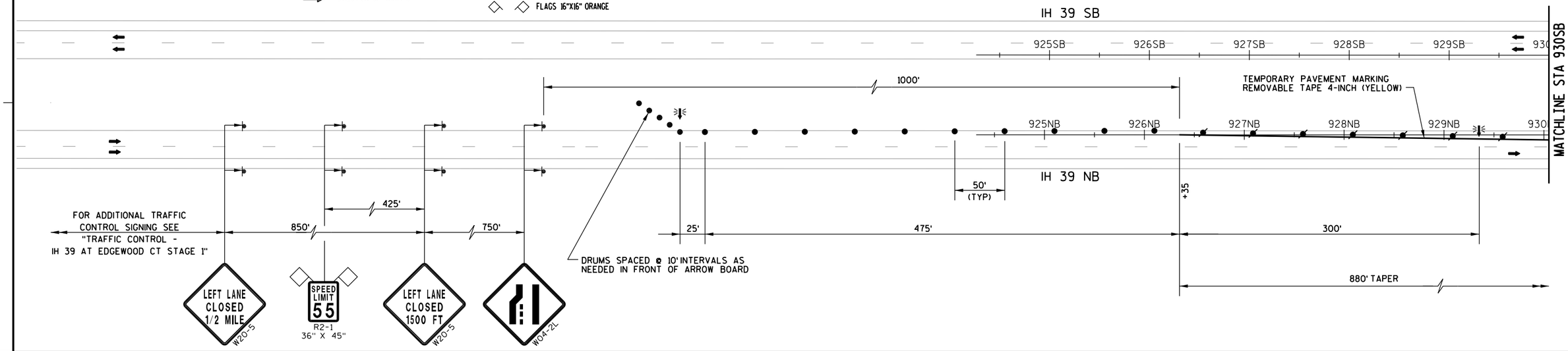
- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

EDGEWOOD COURT STAGE 4 NOTES

1. IH 39 (TRAFFIC IN OUTSIDE LANES)
1.1 PAINT INSIDE OF BRIDGE (B-39-28)
1.2 INSTALL INSIDE LANE RUMBLE STRIPS

N

SCALE 0' 25' 50' 100'

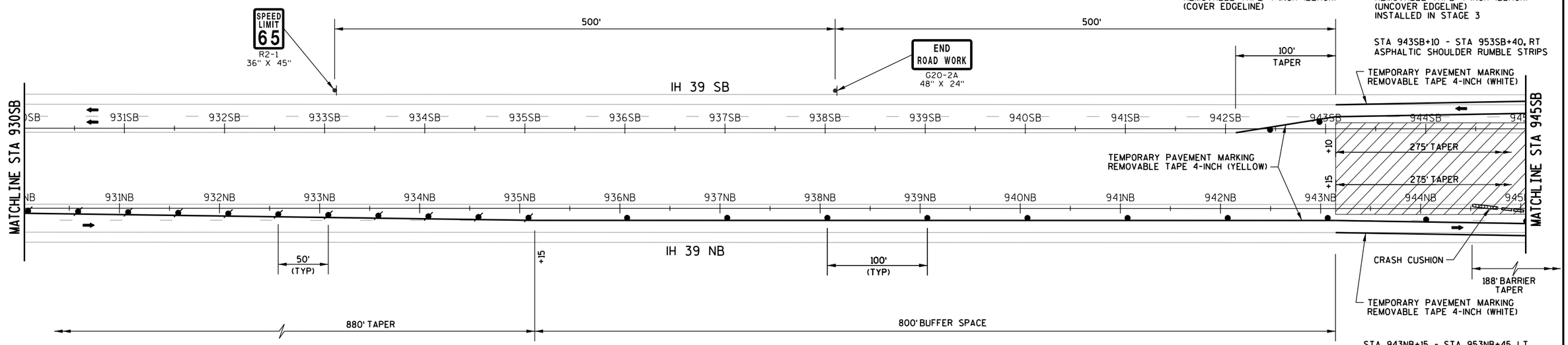


N

STA 943SB+10 - STA 953SB+40, LT
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER EDGELINE)

STA 943SB+10 - STA 953SB+40, RT
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(UNCOVER EDGELINE)
INSTALLED IN STAGE 3

STA 943SB+10 - STA 953SB+40, RT
ASPHALTIC SHOULDER RUMBLE STRIPS



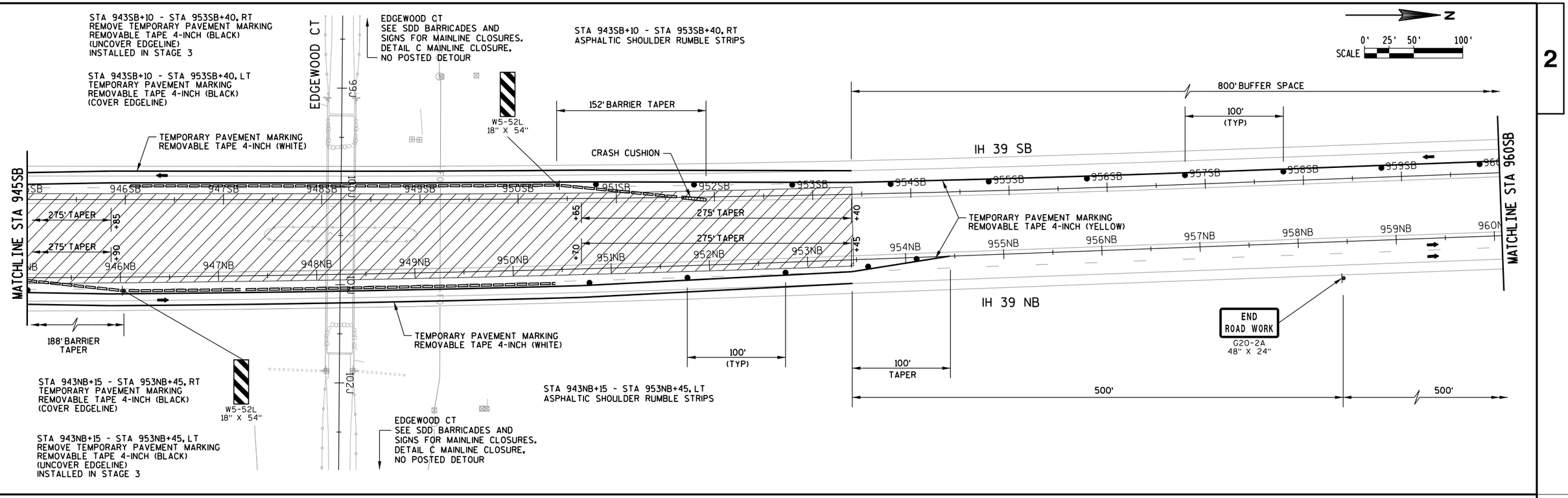
STA 943NB+15 - STA 953NB+45, LT
ASPHALTIC SHOULDER RUMBLE STRIPS

STA 943NB+15 - STA 953NB+45, RT
TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(COVER EDGELINE)

STA 943NB+15 - STA 953NB+45, LT
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(UNCOVER EDGELINE)
INSTALLED IN STAGE 3

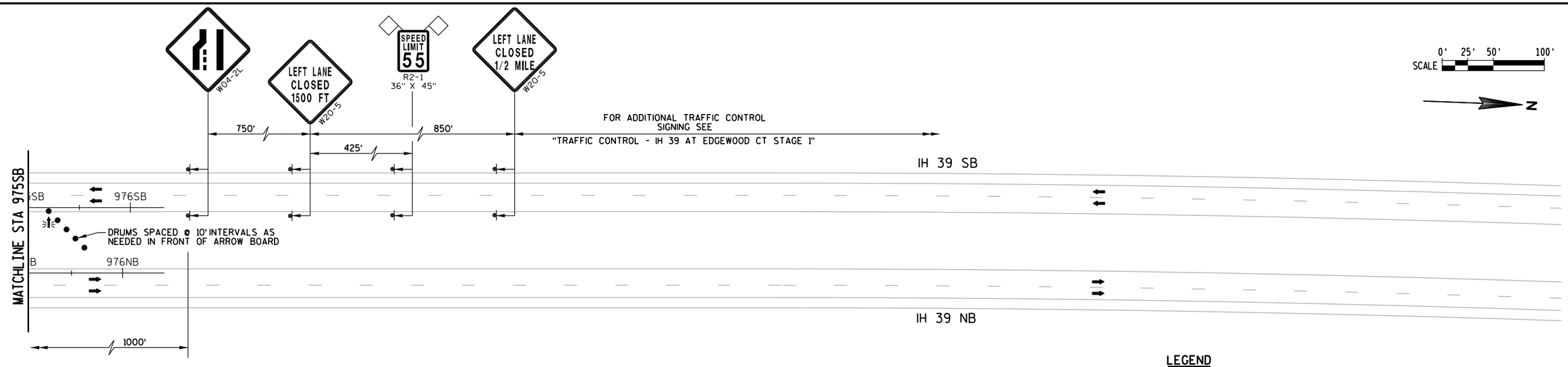
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT EDGEWOOD CT STAGE 4	SHEET 117	E

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WISDOT/CADDS SHEET 42



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT EDGEWOOD CT STAGE 4	SHEET 118	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025074_tc4_edgewood.dgn
BATCH PRINT SHEET 89 OF 92
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PLOT DATE: 1/29/2015
PLOT TIME: 2:51:22 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



LEGEND

- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

2

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT EDGEWOOD CT STAGE 4	SHEET 119	E

LEGEND

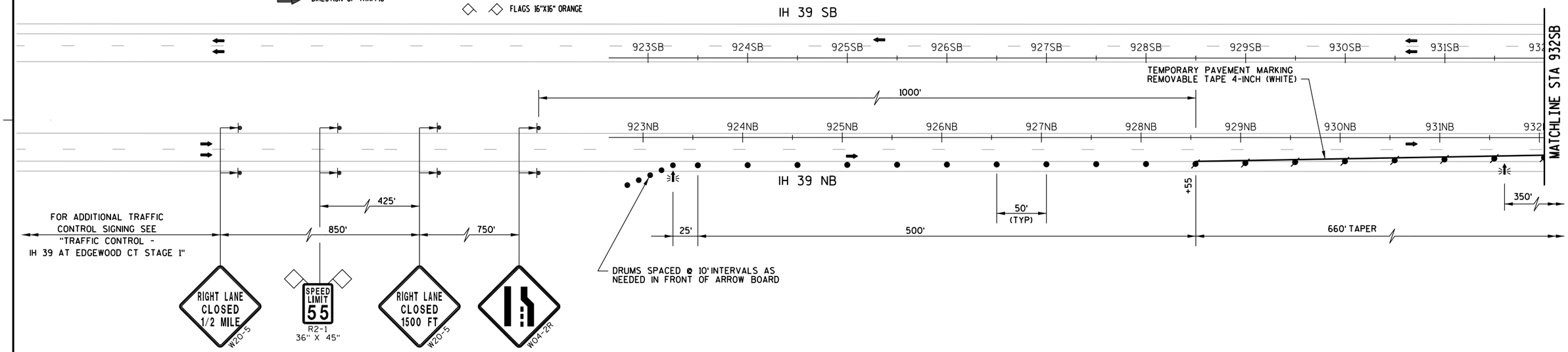
- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- WORK ZONE
- DIRECTION OF TRAFFIC
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- TYPE 3 BARRICADE W/WO SIGN
- ARROW BOARD
- FLAGS 16"X16" ORANGE

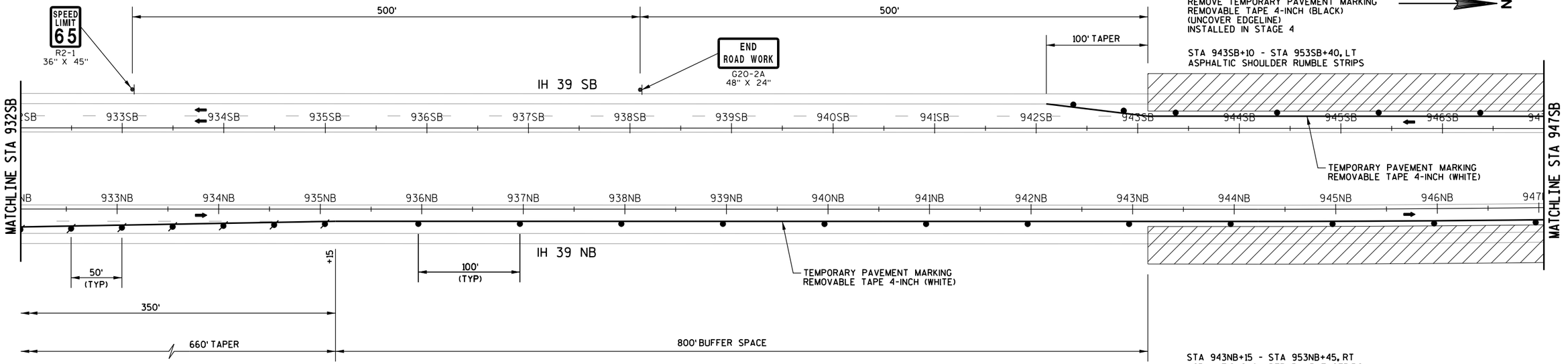
EDGEWOOD COURT STAGE 5 NOTES

1. IH 39 (TRAFFIC IN INSIDE LANES)
1.1 INSTALL OUTSIDE LANE RUMBLE STRIPS

N

SCALE 0' 25' 50' 100'





STA 943SB+10 - STA 953SB+40, LT
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(UNCOVER EDGELINE)
INSTALLED IN STAGE 4

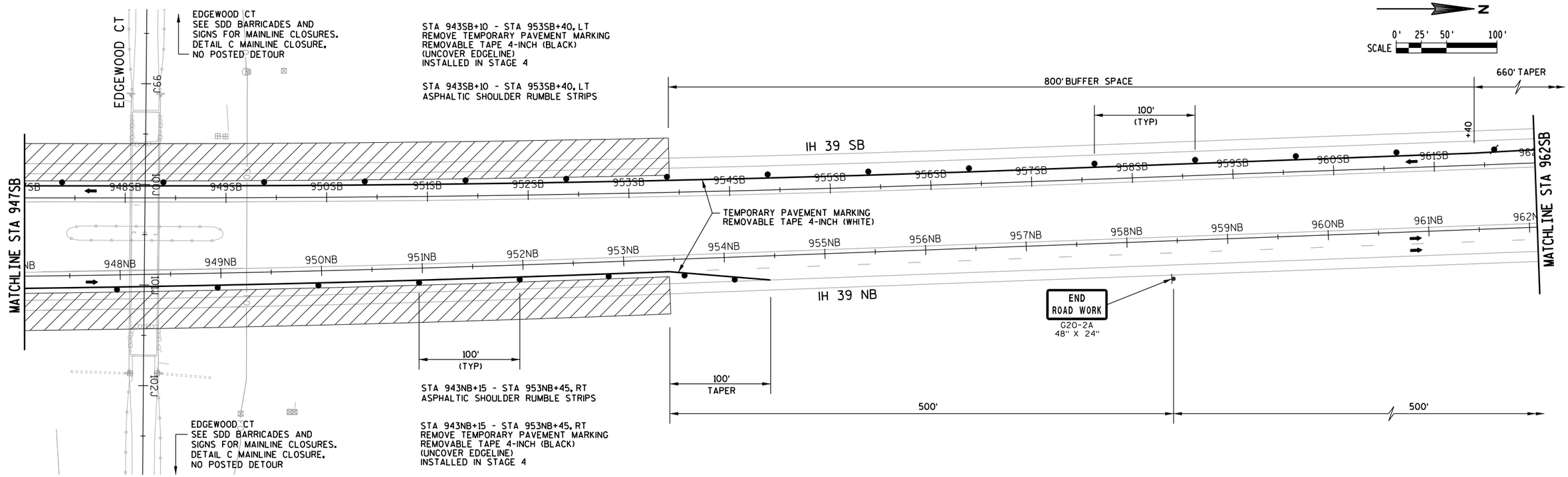
STA 943SB+10 - STA 953SB+40, LT
ASPHALTIC SHOULDER RUMBLE STRIPS

STA 943NB+15 - STA 953NB+45, RT
ASPHALTIC SHOULDER RUMBLE STRIPS

STA 943NB+15 - STA 953NB+45, RT
REMOVE TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (BLACK)
(UNCOVER EDGELINE)
INSTALLED IN STAGE 4

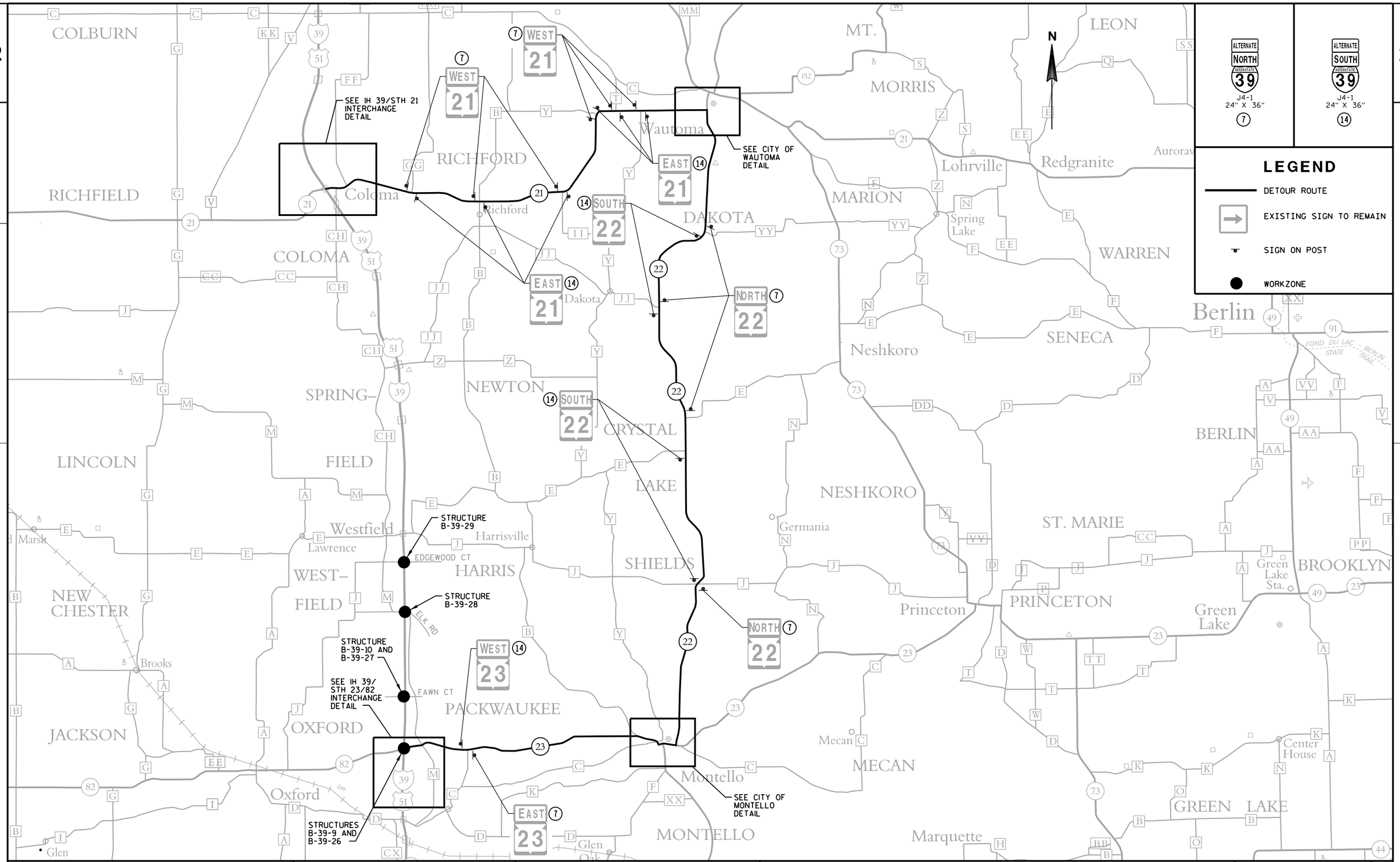
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT EDGEWOOD CT STAGE 5	SHEET 120	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\025076_tc5_edgewood.dgn
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PLOT DATE: 1/29/2015
PLOT TIME: 2:51:26 PM
PLOT SCALE: 1:100



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - IH 39 AT EDGEWOOD CT STAGE 5	SHEET 121	E

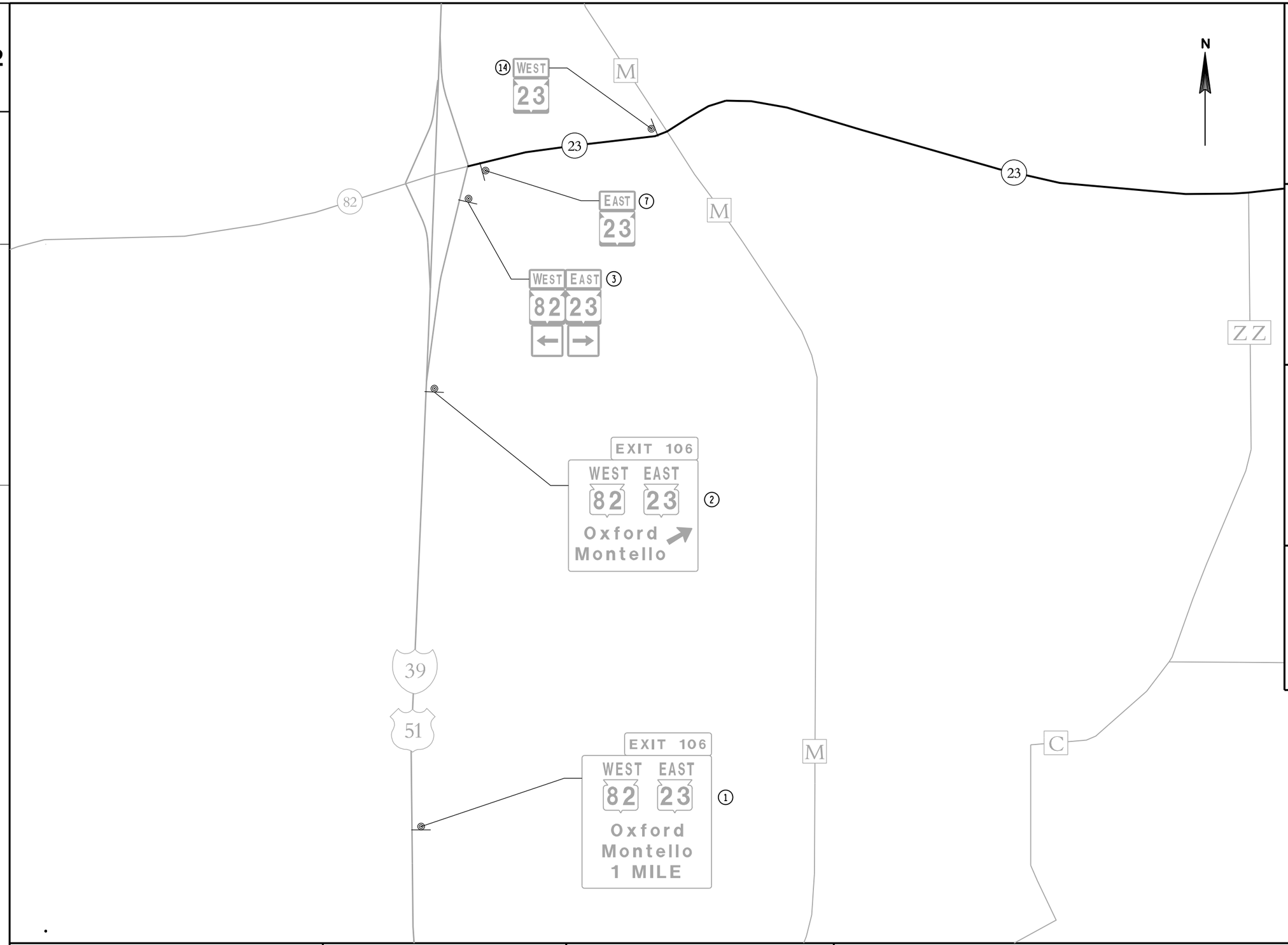
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PLOT TIME: 2:51:29 PM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	ALTERNATE ROUTE OVERVIEW	SHEET 122 E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\027001_dt.dgn
BATCH PRINT SHEET 1 OF 8
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PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 11:26:18 AM
PLOT SCALE: 1:14000
WISDOT/CADDS SHEET 42

2



2

ALTERNATE NORTH INTERSTATE 39
J2-1
36" X 102"
1

ALTERNATE NORTH INTERSTATE 39
J3-1
36" X 102"
2

ALTERNATE NORTH INTERSTATE 39
J3-1
24" X 69"
3

ALTERNATE NORTH INTERSTATE 39
J4-1
24" X 48"
7

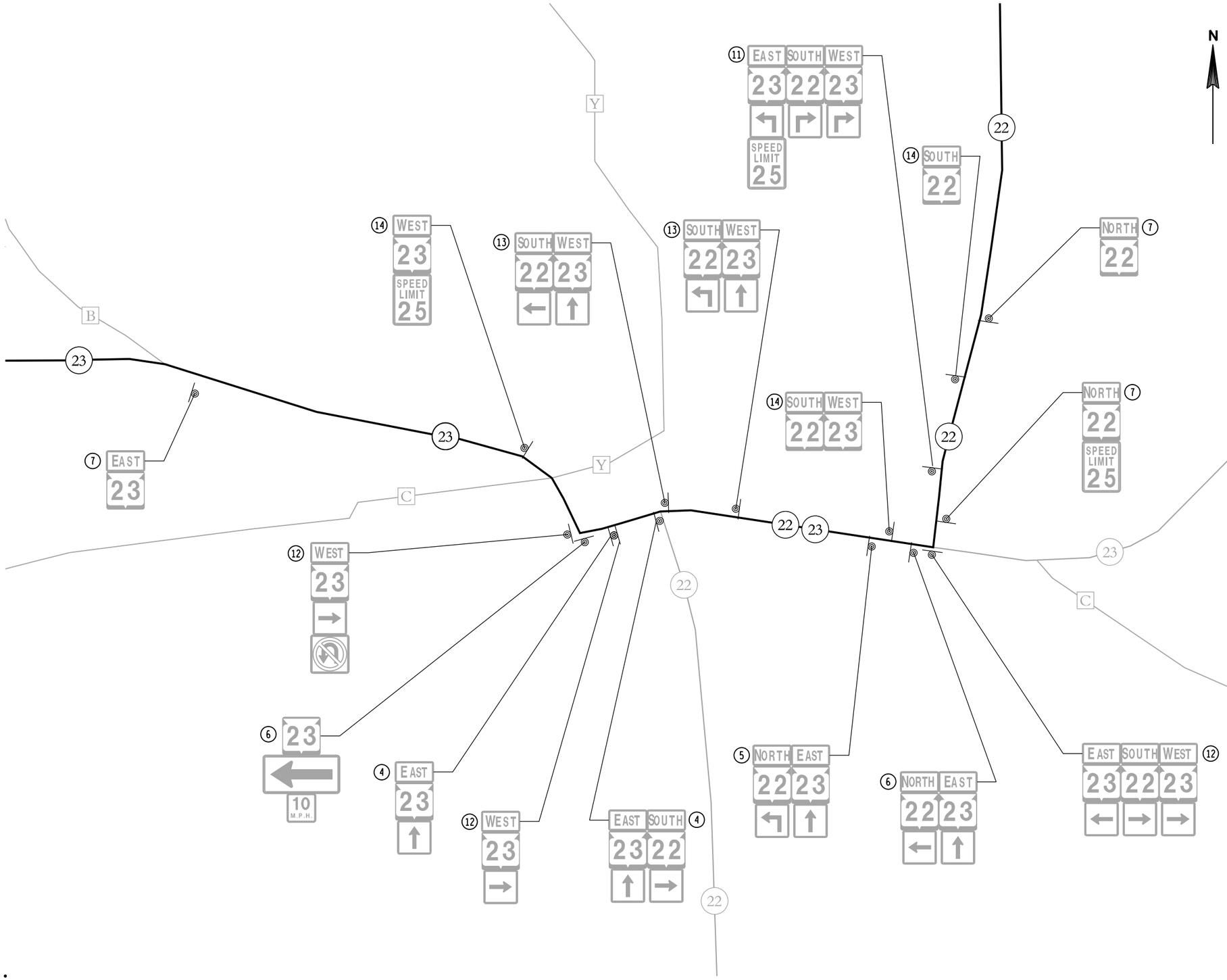
ALTERNATE SOUTH INTERSTATE 39
J4-1
24" X 48"
14

LEGEND

- DETOUR ROUTE
- EXISTING SIGN TO REMAIN
- SIGN ON POST

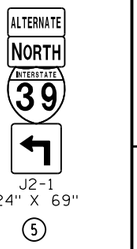
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	ALTERNATE ROUTE - IH 39/STH 23/82 INTERCHANGE	SHEET 123	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\027002_dt.dgn
BATCH PRINT SHEET 2 OF 8
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 11:26:21 AM
PLOT SCALE: 1:1200





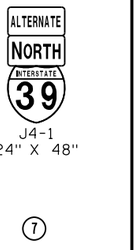
J2-1
24" X 69"
4



J2-1
24" X 69"
5



J3-1
24" X 69"
6



J4-1
24" X 48"
7



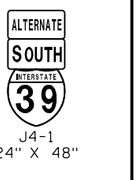
J2-1
24" X 69"
11



J3-1
24" X 69"
12



J2-1
24" X 69"
13



J4-1
24" X 48"
14

LEGEND

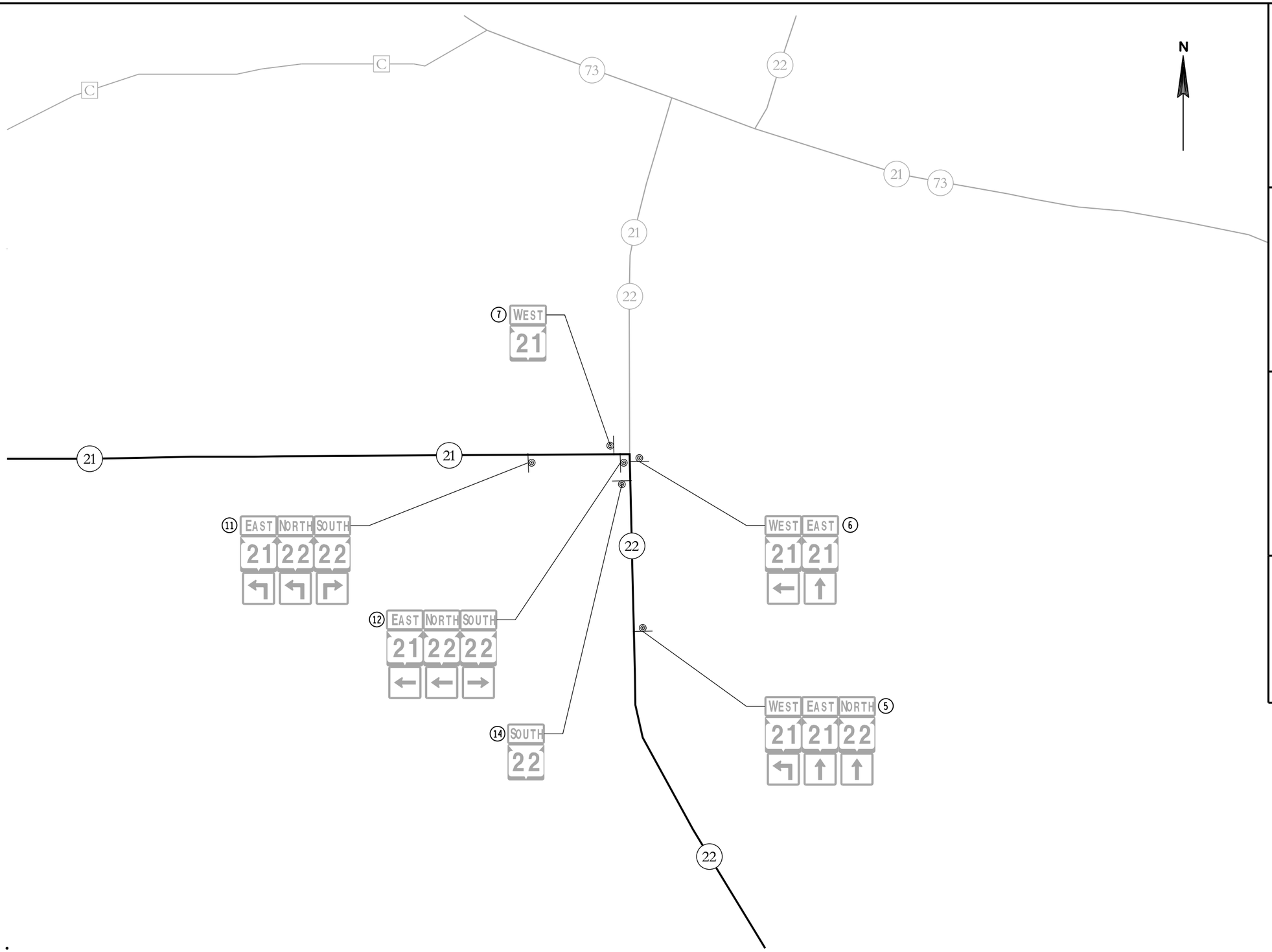
DETOUR ROUTE

EXISTING SIGN TO REMAIN

SIGN ON POST

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	ALTERNATE ROUTE - CITY OF MONTELLO	SHEET 124	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\027003_dt.dgn
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PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 1/30/2015
PLOT TIME: 11:26:23 AM
PLOT SCALE: 1:800
WISDOT/CADDS SHEET 42



ALTERNATE NORTH INTERSTATE 39 — J2-1, 24" X 69" — (5)

ALTERNATE NORTH INTERSTATE 39 — J3-1, 24" X 69" — (6)

ALTERNATE NORTH INTERSTATE 39 — J4-1, 24" X 48" — (7)

ALTERNATE SOUTH INTERSTATE 39 — J2-1, 24" X 69" — (11)

ALTERNATE SOUTH INTERSTATE 39 — J3-1, 24" X 69" — (12)

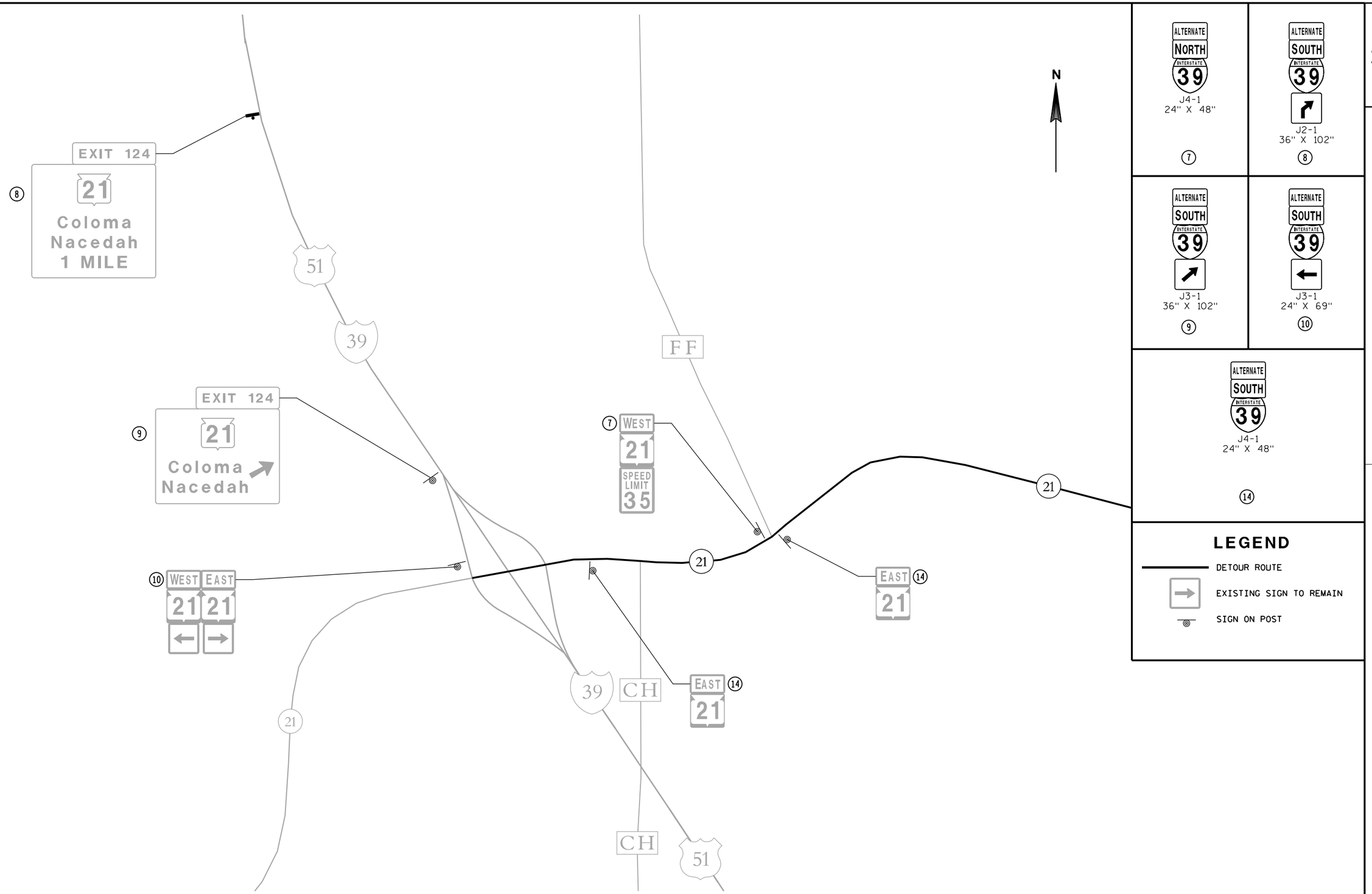
ALTERNATE SOUTH INTERSTATE 39 — J4-1, 24" X 48" — (14)

LEGEND

- DETOUR ROUTE
- EXISTING SIGN TO REMAIN
- SIGN ON POST

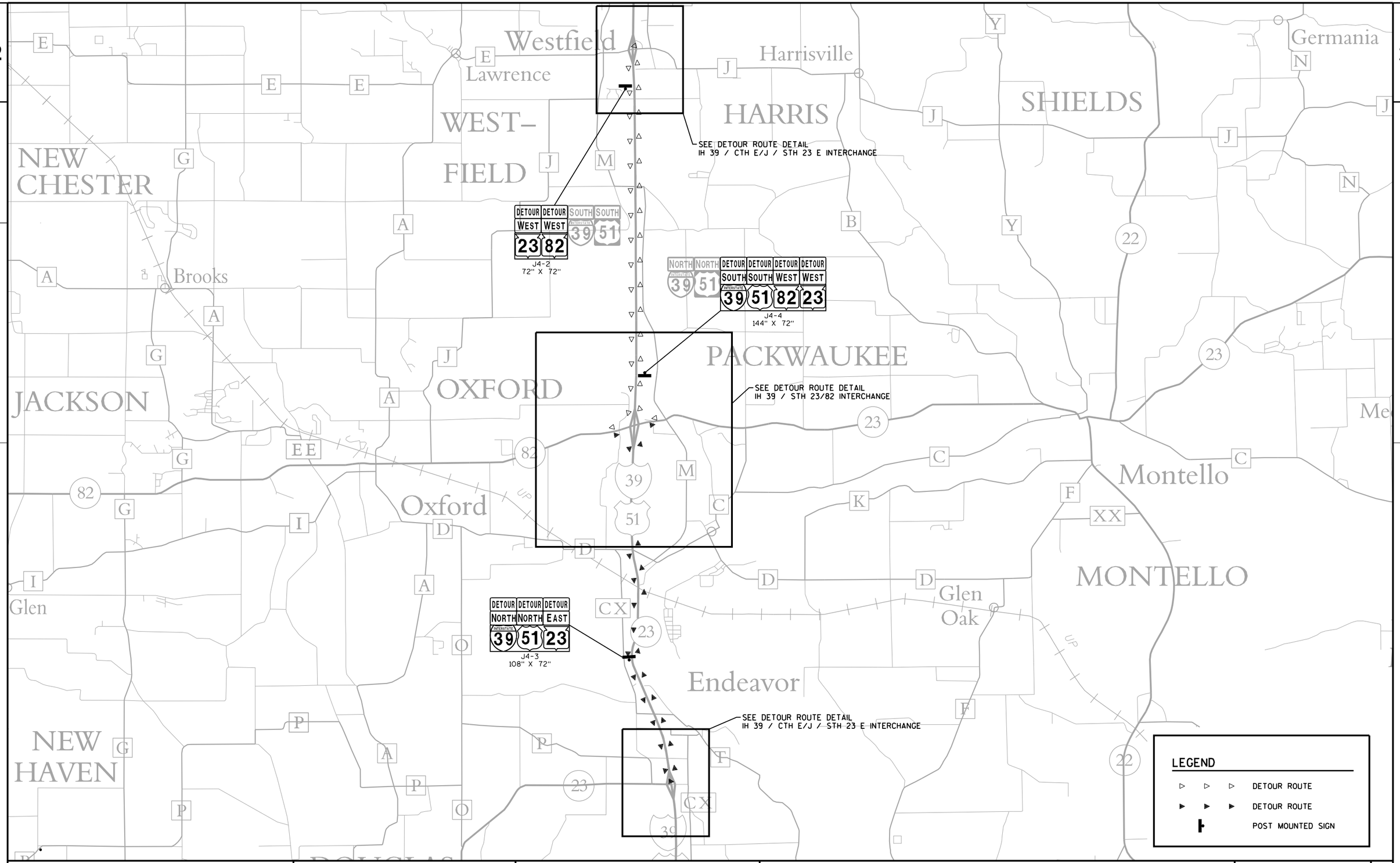
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	ALTERNATE ROUTE - CITY OF WAUTOMA	SHEET 125	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\027004_dt.dgn
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WISDOT/CADDS SHEET 42



2

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	ALTERNATE ROUTE - IH 39/STH 21 INTERCHANGE	SHEET 126	E

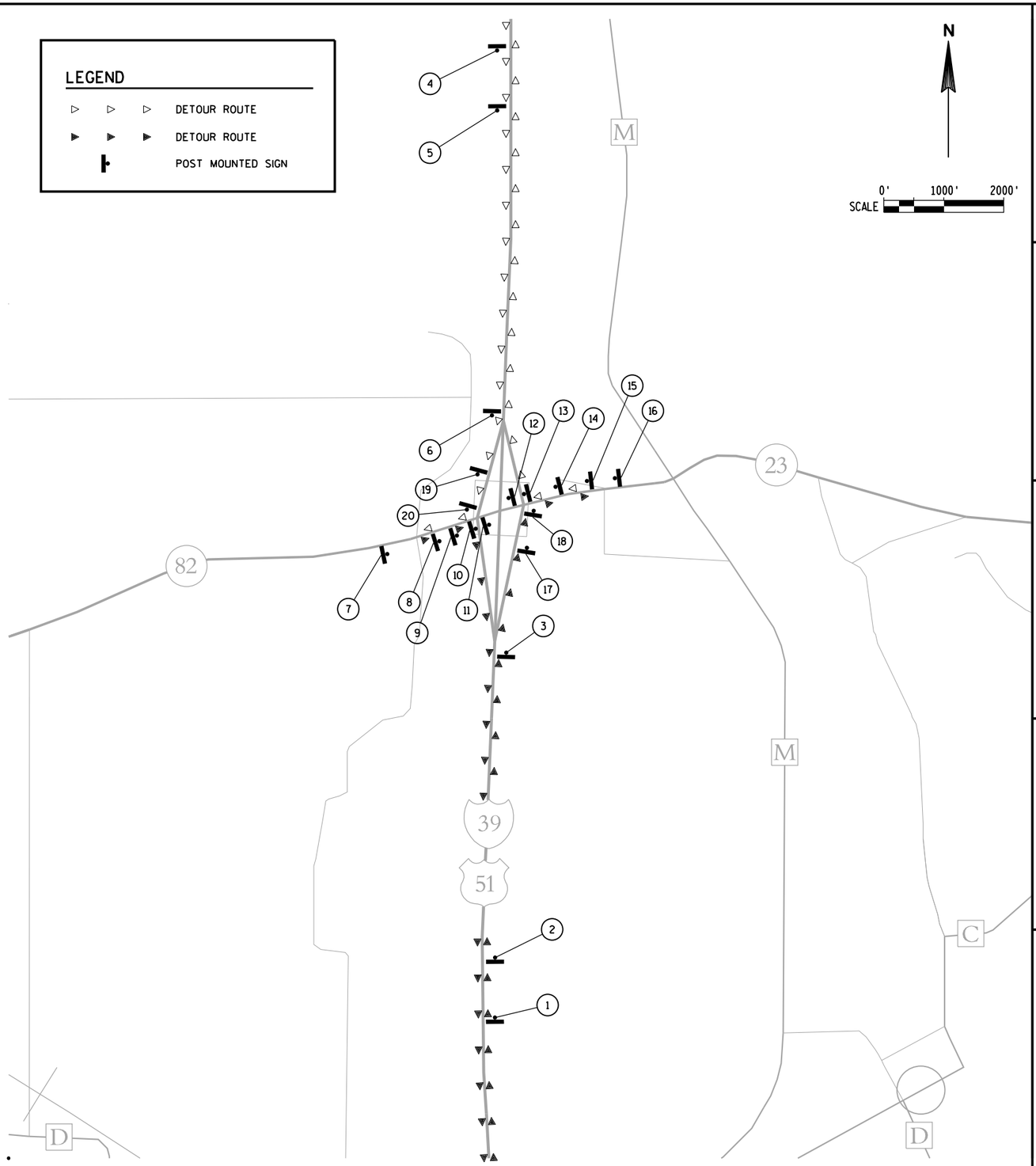


PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	DETOUR: OVERVIEW	SHEET 127	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\027006_dt.dgn
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PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 1/30/2015
PLOT TIME: 11:26:29 AM
PLOT SCALE: 1:8000
WISDOT/CADDS SHEET 42

LEGEND

- DETOUR ROUTE
- DETOUR ROUTE
- POST MOUNTED SIGN



1
WEST 82 J4-1 36" X 54"
DETOUR AHEAD W20-2 48" X 48"

2
DETOUR WEST 82 J2-1 36" X 102"
COVER WEST 82 EAST 23 Oxford Montello 1 MILE

3
DETOUR WEST 82 J2-1 36" X 102"
COVER WEST 82 EAST 23 Oxford Montello

4
EAST 23 J4-1 36" X 54"
DETOUR AHEAD W20-2 48" X 48"

5
DETOUR EAST 23 DETOUR WEST 23 J2-2 72" X 108"
COVER WEST 82 EAST 23 Oxford Montello 1 MILE

6
DETOUR EAST 23 DETOUR WEST 23 J3-2 72" X 108"
COVER WEST 82 EAST 23 Oxford Montello

7
NORTH 39 NORTH 51 EAST 23 J4-3 72" X 36"
DETOUR AHEAD W20-2 48" X 48"

8
DETOUR M04-8 24" X 12" NORTH 39 COVER M05-1R 21" X 21"
DETOUR M04-8 24" X 12" NORTH 51 COVER M05-1R 21" X 21"
DETOUR M04-8 24" X 12" EAST 23 SOUTH 39 SOUTH 51 WEST 23 COVER M05-1R 21" X 21"

19
M07-1 12" X 9" COVER Montello Portage Wis Dells
M07-2 12" X 9" COVER Montello Packwaukee Oxford

10
SOUTH 39 SOUTH 51 WEST 23
DETOUR NORTH 39 DETOUR NORTH 51 DETOUR EAST 23 J3-3 72" X 69"

11
COVER NORTH 39 NORTH 51 EAST 23

12
COVER SOUTH 39 SOUTH 51 WEST 23 WEST 82

13
NORTH 39 NORTH 51 DETOUR SOUTH 39 DETOUR SOUTH 51 DETOUR WEST 23 DETOUR WEST 82 J3-4 96" X 69"

14
M07-1 12" X 9" COVER Portage Wis Dells Stevens Point

17
M07-2 12" X 9" COVER Oxford Montello

15
DETOUR M04-8 24" X 12" SOUTH 39 COVER M05-1R 21" X 21"
DETOUR M04-8 24" X 12" SOUTH 51 COVER M05-1R 21" X 21"
DETOUR M04-8 24" X 12" WEST 23 COVER M05-1R 21" X 21"
DETOUR M04-8 24" X 12" WEST 82 NORTH 39 NORTH 51 COVER M05-1R 21" X 21"

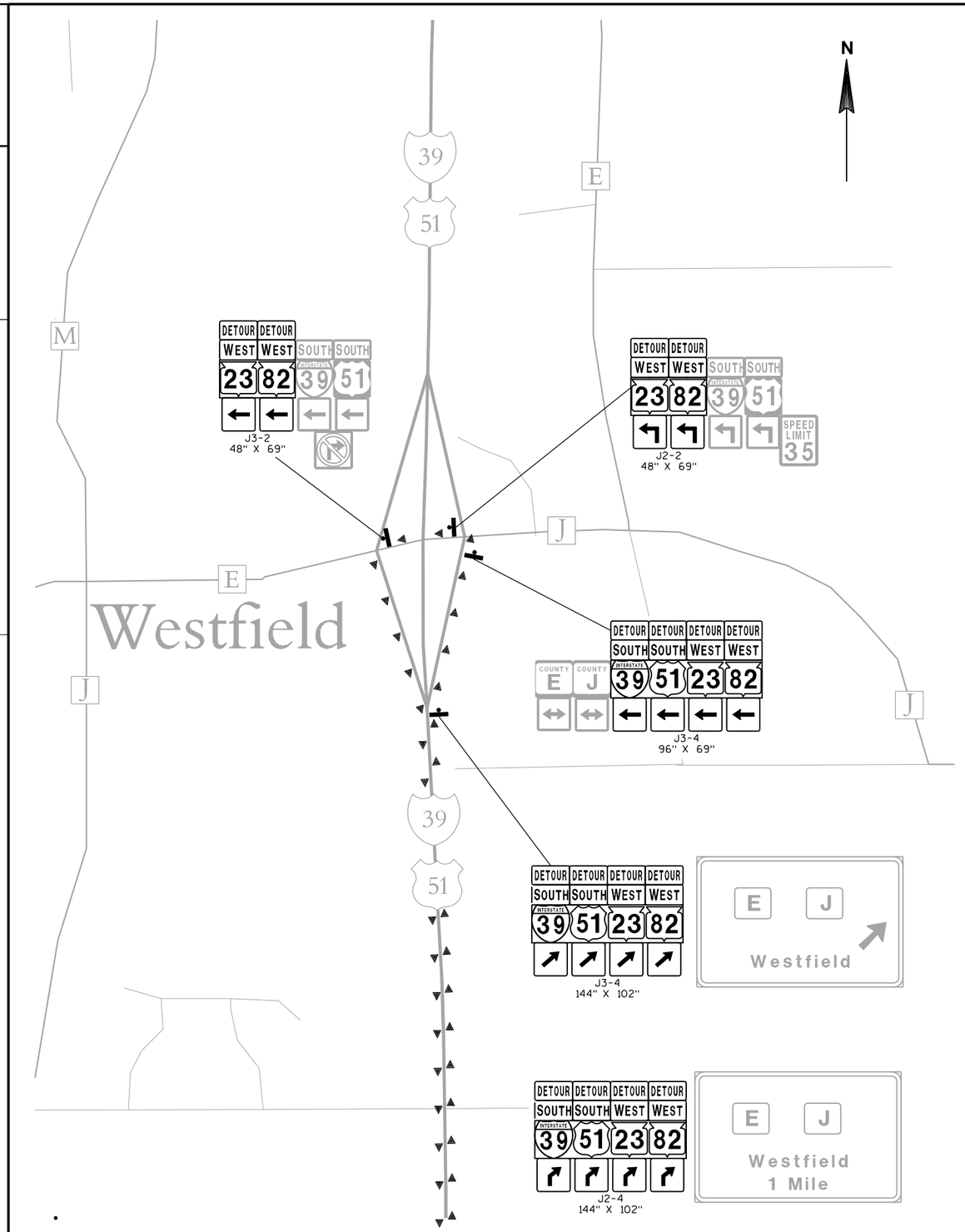
16
SOUTH 39 SOUTH 51 WEST 23 WEST 82 J4-4 96" X 36"
DETOUR AHEAD W20-2 48" X 48"

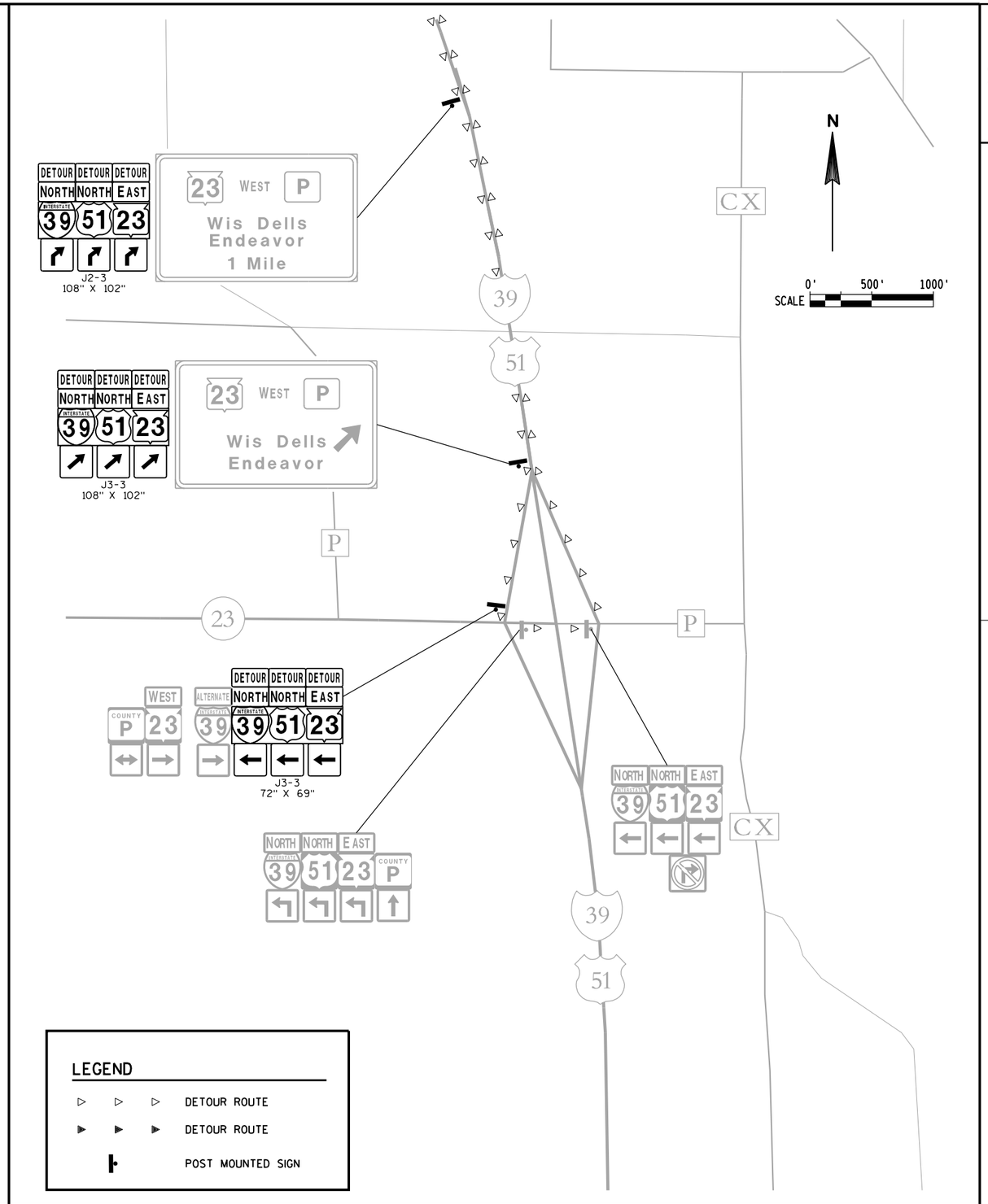
18
DETOUR M04-8 24" X 12" WEST 82 EAST 23 COVER M06-1 21" X 21"

20
DETOUR M04-8 24" X 12" EAST 23 WEST 82 COVER M06-1 21" X 21"

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	DETOUR: IH 39 / STH 23/82 INTERCHANGE DETAIL	SHEET 128	E

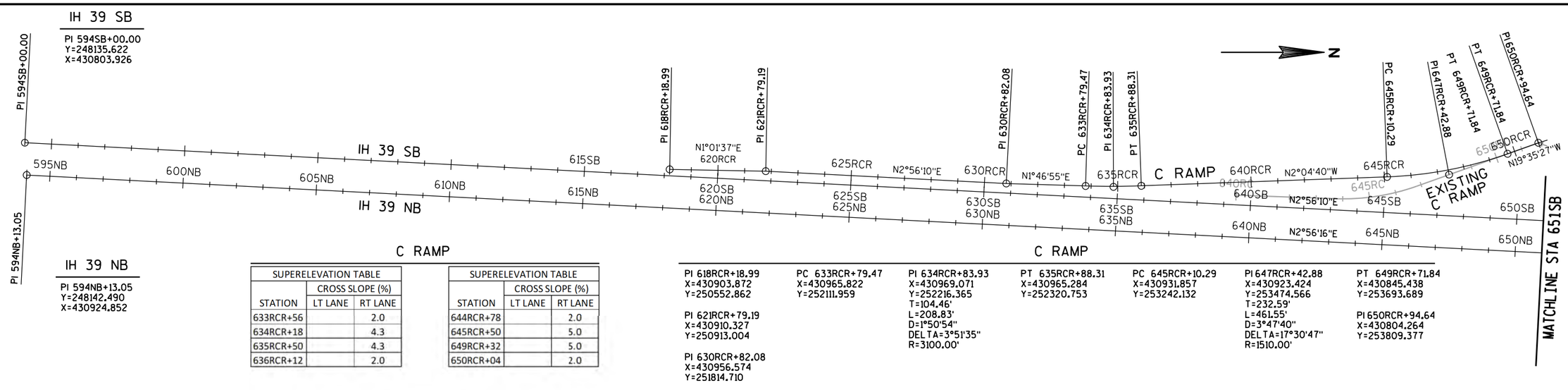
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PLOT TIME: 11:26:32 AM
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WISDOT/CADDS SHEET 42





PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	DETOUR: IH 39 / CTH E/J / STH 23 E INTERCHANGE DETAIL	SHEET 129	E

FILE NAME: L:\Work\Projects\60240622\000.CAD\001_Drawings\Sheets\027008_dt.dgn
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PLOT DATE: 1/30/2015
PLOT TIME: 11:26:34 AM
PLOT SCALE: 1:1000
WISDOT/CADDS SHEET 42



IH 39 NB

PI 594NB+13.05
Y=248142.490
X=430924.852

C RAMP

SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
633RCR+56		2.0
634RCR+18		4.3
635RCR+50		4.3
636RCR+12		2.0

SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
644RCR+78		2.0
645RCR+50		5.0
649RCR+32		5.0
650RCR+04		2.0

C RAMP

PI 618RCR+18.99
X=430903.872
Y=250552.862

PI 621RCR+79.19
X=430910.327
Y=250913.004

PI 630RCR+82.08
X=430956.574
Y=251814.710

PC 633RCR+79.47
X=430965.822
Y=252111.959

PI 634RCR+83.93
X=430969.071
Y=252216.365
T=104.46'
L=208.83'
D=1°50'54"
DELTA=3°51'35"
R=3100.00'

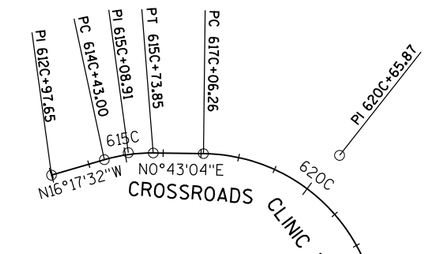
PT 635RCR+88.31
X=430965.284
Y=252320.753

PC 645RCR+10.29
X=430931.857
Y=253242.132

PI 647RCR+42.88
X=430923.424
Y=253474.566
T=232.59'
L=461.55'
D=3°47'40"
DELTA=17°30'47"
R=1510.00'

PT 649RCR+71.84
X=430845.438
Y=253693.689

PI 650RCR+94.64
X=430804.264
Y=253809.377



CROSSROADS CLINIC ROAD

PI 612C+97.65
X=429821.974
Y=253520.130

PC 614C+43.00
X=429781.198
Y=253659.645

PI 615C+08.91
X=429762.708
Y=253722.907
T=65.91'
L=130.85'
D=13°00'00"
DELTA=17°00'36"
R=440.74'

PT 615C+73.85
X=429763.534
Y=253788.810

PC 617C+06.26
X=429765.193
Y=253921.209

PI 620C+65.87
X=429769.699
Y=254280.786
T=359.61'
L=613.14'
D=12°15'00"
DELTA=75°06'34"
R=467.72'

PT 623C+19.40
X=430118.359
Y=254368.832

PC 626C+04.40
X=430394.690
Y=254438.614

PI 628C+16.88
X=430600.699
Y=254490.637
T=212.48'
L=395.30'
D=13°10'17"
DELTA=52°03'59"
R=435.00'

PT 629C+99.70
X=430686.310
Y=254685.102

PC 633C+72.61
X=430836.564
Y=255026.403

PI 638C+33.95
X=431022.446
Y=255448.630
T=461.33'
L=911.99'
D=2°20'19"
DELTA=21°19'40"
R=2450.00'

PT 642C+84.60
X=431042.032
Y=255909.547

PI 646C+71.19
X=431058.445
Y=256295.784

D RAMP

PI 649RDR+87.48
X=430804.264
Y=253809.377

PC 651RDR+70.37
X=430752.355
Y=253984.749

PI 655RDR+60.72
X=430641.568
Y=254359.044
T=390.35'
L=737.91'
D=6°15'43"
DELTA=46°12'25"
R=915.00'

PT 659RDR+08.29
X=430835.079
Y=254698.048

PI 661RDR+26.29
X=430943.152
Y=254887.377

PI 663RDR+91.26
X=431074.507
Y=255117.492
T=264.97'
L=523.28'
D=4°14'39"
DELTA=22°12'31"
R=1350.00'

PT 666RDR+49.57
X=431109.138
Y=255380.186

PI 671RDR+79.57
X=431178.408
Y=255905.640

CROSSROADS CLINIC ROAD

SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
624C+91	-2.0	-2.0
625C+30	-2.0	0.0
625C+69	-2.0	2.0
626C+42	-5.8	5.8
629C+62	-5.8	5.8
630C+35	-2.0	2.0
630C+74	-2.0	0.0
631C+13	-2.0	-2.0

SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
633C+04	-2.0	-2.0
633C+42	-2.0	0.0
633C+80	-2.0	2.0
633C+88	-2.4	2.4
642C+69	-2.4	2.4
642C+77	-2.0	2.0
643C+15	-2.0	0.0
643C+53	-2.0	-2.0

IH 39 NB

PC 692NB+59.39
X=431429.490
Y=257975.891

PI 698NB+02.87
X=431457.343
Y=258518.651
T=543.48'
L=1086.75'
D=0°15'00"
DELTA=2°43'01"
R=22918.31'

PT 703NB+46.14
X=431459.439
Y=259062.122

IH 39 SB

PC 701SB+35.37
X=431353.806
Y=258856.903

PI 706SB+78.66
X=431381.634
Y=259399.481
T=543.29'
L=1086.38'
D=0°15'00"
DELTA=2°42'52"
R=22930.31'

PT 712SB+21.75
X=431383.735
Y=259942.768

D RAMP

SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
650RDR+61		1.0
651RDR+02		0.0
651RDR+43		-2.0
652RDR+05		-5.0
658RDR+74		-5.0
659RDR+36		-2.0
659RDR+77		0.0
660RDR+18		2.0

SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
660RDR+73		2.0
661RDR+80		6.0
665RDR+96		6.0
667RDR+03		2.0

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	ALIGNMENT DIAGRAM	SHEET 130	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\027201_ad.dgn
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PLOT DATE: 1/30/2015
PLOT TIME: 11:26:51 AM
PLOT SCALE: 1:400
WISDOT/CADDS SHEET 42

2

MATCHLINE STA 708SB

IH 39 SB

PC 701SB+35.37
X=431353.806
Y=258856.903

PI 706SB+78.66
X=431381.634
Y=259399.481
T=543.29'
L=1086.38'
D=0°15'00"
DELTA=2°42'52"
R=22930.31'

PT 712SB+21.75
X=431383.735
Y=259942.768

PT 712SB+21.75

710SB 715SB 720SB 725SB 730SB 735SB 740SB N0°13'17"E 745SB 750SB IH 39 SB 755SB 760SB 765SB

710NB 715NB 720NB 725NB 730NB 735NB 740NB 745NB 750NB 755NB 760NB N0°13'15"E

N0°13'15"E

IH 39 NB

N

MATCHLINE STA 768SB

MATCHLINE STA 768SB

'17"E 770SB 775SB 780SB 785SB 790SB 795SB N0°13'17"E 800SB 805SB IH 39 SB 810SB 815SB 820SB 825SB N0°01'16"E

770NB 775NB 780NB 785NB 790NB 795NB 800NB 805NB 810NB 815NB 820NB 825NB N0°01'23"E

N0°13'15"E

IH 39 NB

N

IH 39 SB

PI 823SB+83.18
X=431426.888
Y=271104.114

PI 823SB+83.18

IH 39 NB

PI 825NB+89.21
X=431506.642
Y=271305.104

PI 825NB+89.21

MATCHLINE STA 828SB

MATCHLINE STA 828SB

CTH M

PI 91H+52.44
X=430569.104
Y=275612.983

PI 99H+24.92
X=431341.578
Y=275611.005

PC 103H+28.66
X=431745.319
Y=275609.573

PI 106H+56.34
X=432072.997
Y=275608.410
T=327.68'
L=638.33'
D=5°00'00"
DELTA=31°54'59"
R=1145.92'

PT 109H+66.99
X=432350.522
Y=275434.187

PI 91H+52.44

91H+52

CTH M

95H S89°51'12"E

PI 99H+24.92

830SB 835SB 840SB 845SB N0°01'16"E 850SB IH 39 SB 855SB 860SB 865SB 870SB 875SB 880SB 885SB

830NB 835NB 840NB 845NB 850NB 855NB 860NB 865NB 870NB 875NB 880NB 885NB

N0°01'23"E

IH 39 NB

S89°47'48"E

PC 103H+28.66

105H

PI 106H+56.34

PT 109H+66.99

109H+67

N

MATCHLINE STA 888SB

CTH M

SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
101H+76	-2.0	-2.0
102H+27	0.0	-2.0
102H+78	2.0	-2.0
103H+80	6.0	-6.0
106H+50	6.0	-6.0

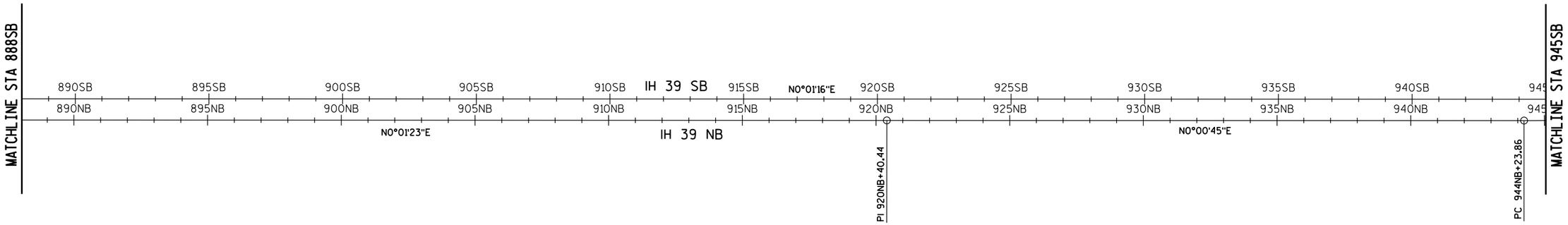
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	ALIGNMENT DIAGRAM	SHEET 131	E

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PLOT DATE: 1/30/2015
PLOT TIME: 11:26:56 AM

PLOT SCALE: 1:400



IH 39 NB

PI 920NB+40.44
X=431510.449
Y=280756.334

2

EDGEWOOD COURT

PI 91J+49.77
X=430567.8175
Y=283548.9600

PI 101J+70.78
X=431588.7809
Y=283539.0166

PI 99J+26.42
X=431344.4275
Y=283541.3855

PI 109J+47.49
X=432365.4645
Y=283533.6915

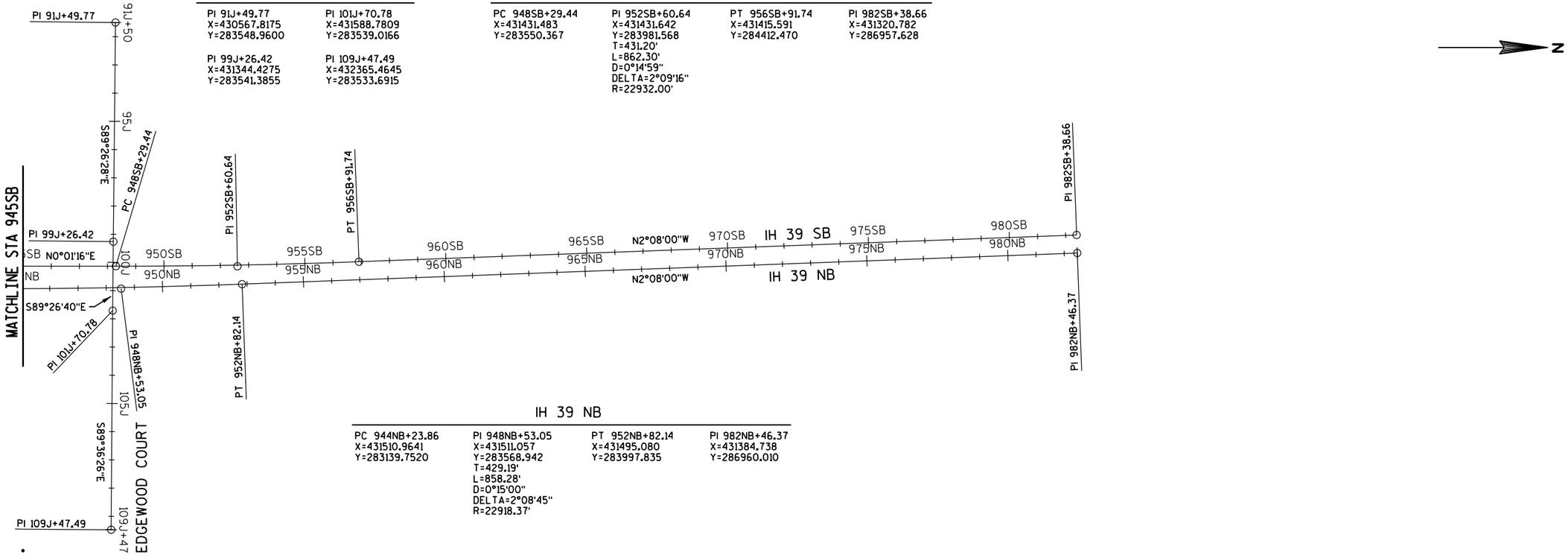
IH 39 SB

PC 948SB+29.44
X=431431.483
Y=283550.367

PI 952SB+60.64
X=431431.642
Y=283981.568
T=431.20'
L=862.30'
D=0°14'59"
DELTA=2°09'16"
R=22932.00'

PT 956SB+91.74
X=431415.591
Y=284412.470

PI 982SB+38.66
X=431320.782
Y=286957.628



IH 39 NB

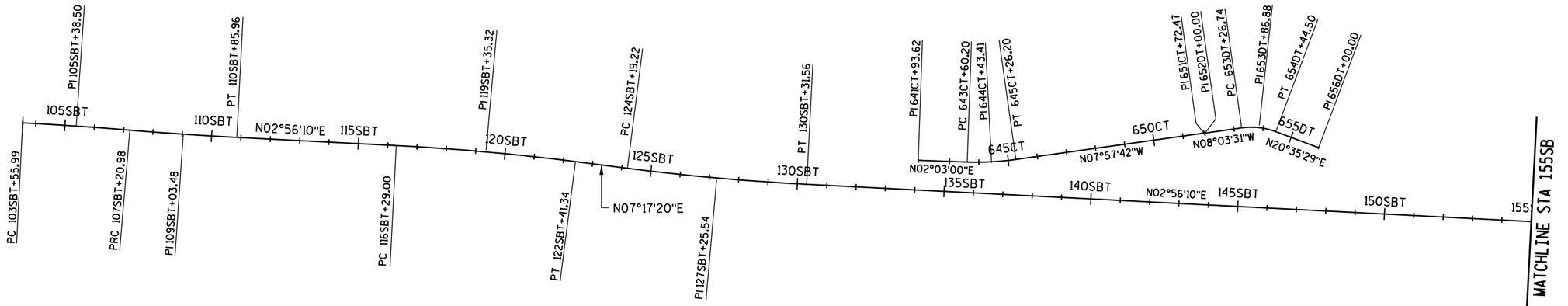
PC 944NB+23.86
X=431510.9641
Y=283139.7520

PI 948NB+53.05
X=431511.057
Y=283568.942
T=429.19'
L=858.28'
D=0°15'00"
DELTA=2°08'45"
R=22918.37'

PT 952NB+82.14
X=431495.080
Y=283997.835

PI 982NB+46.37
X=431384.738
Y=286960.010

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	ALIGNMENT DIAGRAM	SHEET 132	E



IH 39 TEMPORARY SOUTHBOUND BYPASS

PC 103SBT+55.99
X=430878.473
Y=249823.373

PI 105SBT+38.50
X=430887.821
Y=250005.641
T=182.51'
L=364.98'
D=0°30'58"
DELTA=1°53'02"
R=11100.00'

PRC 107SBT+20.98
X=430903.156
Y=250187.503

PI 109SBT+03.48
X=430918.492
Y=250369.365
T=182.51'
L=364.98'
D=0°30'58"
DELTA=1°53'02"
R=11100.00'

PT 110SBT+85.96
X=430927.840
Y=250551.633

PC 116SBT+29.00
X=430955.655
Y=251093.960

PI 119SBT+35.32
X=430971.345
Y=251399.875
T=306.32'
L=612.34'
D=0°42'39"
DELTA=4°21'10"
R=8060.00'

PT 122SBT+41.34
X=431010.209
Y=251703.716

PC 124SBT+19.22
X=431032.778
Y=251880.165

PI 127SBT+25.54
X=431071.641
Y=252184.006
T=306.32'
L=612.34'
D=0°42'39"
DELTA=4°21'10"
R=8060.00'

PT 130SBT+31.56
X=431087.331
Y=252489.920

IH 39 SB TEMPORARY RAMPS

PI 641CT+93.62
X=431005.559
Y=252869.614

PC 643CT+60.20
X=431011.518
Y=253036.094

PI 644CT+43.41
X=431014.494
Y=253119.251
T=83.21'
L=166.00'
D=6°01'52"
DELTA=10°00'42"
R=949.99'

PT 645CT+26.20
X=431002.969
Y=253201.659

PI 651CT+72.47
X=430913.456
Y=253841.697

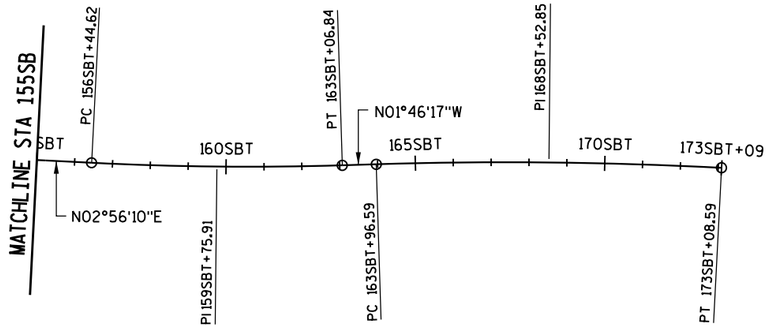
PI 651CT+72.47
X=430913.228
Y=253844.639

PC 653DT+26.74
X=430895.461
Y=253970.129

PI 653DT+86.88
X=430887.030
Y=254029.673
T=60.14'
L=117.76'
D=24°19'46"
DELTA=28°39'00"
R=235.50'

PT 654DT+44.50
X=430908.181
Y=254085.969

PI 656DT+00.00
X=430962.870
Y=254231.534





IH 39 TEMPORARY SOUTHBOUND BYPASS

PC 156SBT+44.62
X=431221.175
Y=255099.544

PI 159SBT+75.91
X=431238.145
Y=255430.408
T=331.30'
L=662.22'
D=0°42'39"
DELTA=4°42'27"
R=8060.00'

PT 163SBT+06.84
X=431227.903
Y=255761.547

PC 163SBT+96.59
X=431225.128
Y=255851.260

PI 168SBT+52.85
X=431211.024
Y=256307.296
T=456.25'
L=911.99'
D=0°30'58"
DELTA=4°42'27"
R=11100.00'

PT 173SBT+08.59
X=431234.394
Y=256762.951

IH 39 TEMPORARY SOUTHBOUND BYPASS

SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
116SBT+29	2.0	-2.0
123SBT+31	2.0	-2.0
123SBT+84	0.0	0.0
124SBT+37	-2.0	2.0
130SBT+14	-2.0	2.0
130SBT+67	-2.0	0.0
131SBT+20	-2.0	-2.0

SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
155SBT56	-2.0	-2.0
156SBT+09	-2.0	0.0
156SBT+62	-2.0	2.0
162SBT+89	-2.0	2.0
163SBT+42	0.0	0.0
163SBT+95	2.0	-2.0

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	ALIGNMENT DIAGRAM	SHEET 133	E

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WISDOT/CADDS SHEET 42

DATE 17AUG15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1166-07-76 QUANTITY
0010	201.0105	Clearing	STA	48.000	48.000
0020	201.0205	Grubbing	STA	48.000	48.000
0030	203.0100	Removing Small Pipe Culverts	EACH	10.000	10.000
0040	203.0200	Removing Old Structure (station) 01. 651+68.69	LS	1.000	1.000
0050	203.0200	Removing Old Structure (station) 02. 100'H'+50.34	LS	1.000	1.000
0060	203.0200	Removing Old Structure (station) 03. 100'J'+48.50	LS	1.000	1.000
0070	203.0210.S	Abatement of Asbestos Containing Material (structure) 01. B-39-9	LS	1.000	1.000
0080	204.0115	Removing Asphaltic Surface Butt Joints	SY	681.000	681.000
0090	204.0130	Removing Curb	LF	52.000	52.000
0100	204.0150	Removing Curb & Gutter	LF	251.000	251.000
0110	204.0165	Removing Guardrail	LF	3,822.000	3,822.000
0120	204.0170	Removing Fence	LF	2,492.000	2,492.000
0130	204.0180	Removing Delineators and Markers	EACH	50.000	50.000
0140	204.0185	Removing Masonry	CY	2.800	2.800
0150	204.0190	Removing Surface Drains	EACH	5.000	5.000
0160	204.0195	Removing Concrete Bases	EACH	3.000	3.000
0170	204.0220	Removing Inlets	EACH	5.000	5.000
0180	204.0245	Removing Storm Sewer (size) 01. 18-Inch	LF	279.000	279.000
0190	205.0100	Excavation Common	CY	93,750.000	93,750.000
0200	206.1000	Excavation for Structures Bridges (structure) 01. B-39-76	LS	1.000	1.000
0210	206.1000	Excavation for Structures Bridges (structure) 02. B-39-28	LS	1.000	1.000
0220	206.1000	Excavation for Structures Bridges (structure) 03. B-39-29	LS	1.000	1.000
0230	208.0100	Borrow	CY	155,300.000	155,300.000
0240	210.0100	Backfill Structure	CY	492.000	492.000
0250	213.0100	Finishing Roadway (project) 01. 1166-07-76	EACH	1.000	1.000
0260	214.0100	Obliterating Old Road	STA	15.400	15.400
0270	305.0110	Base Aggregate Dense 3/4-Inch	TON	4,900.000	4,900.000
0280	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	44,680.000	44,680.000
0290	305.0130	Base Aggregate Dense 3-Inch	TON	20,600.000	20,600.000
0300	311.0110	Breaker Run	TON	200.000	200.000
0310	416.1010	Concrete Surface Drains	CY	11.200	11.200
0320	440.4410.S	Incentive IRI Ride	DOL	1,900.000	1,900.000
0330	455.0105	Asphaltic Material PG58-28	TON	481.000	481.000
0340	455.0120	Asphaltic Material PG64-28	TON	110.000	110.000
0350	455.0605	Tack Coat	GAL	2,328.000	2,328.000
0360	460.1101	HMA Pavement Type E-1	TON	5,231.000	5,231.000
0370	460.1110	HMA Pavement Type E-10	TON	5,322.000	5,322.000
0380	460.2000	Incentive Density HMA Pavement	DOL	6,700.000	6,700.000
0390	460.4000	HMA Cold Weather Paving	TON	782.000	782.000
0400	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	300.000	300.000
0410	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	80.000	80.000
0420	465.0125	Asphaltic Surface Temporary	TON	5,834.000	5,834.000
0430	465.0305	Asphaltic Surface Safety Islands	TON	30.000	30.000
0440	465.0315	Asphaltic Flumes	SY	79.000	79.000
0450	465.0400	Asphaltic Shoulder Rumble Strips	LF	19,613.000	19,613.000

3

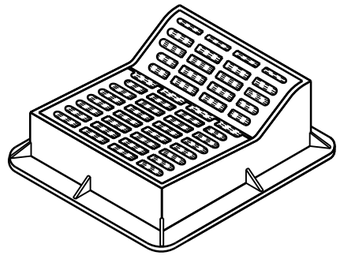
Standard Detail Drawing List

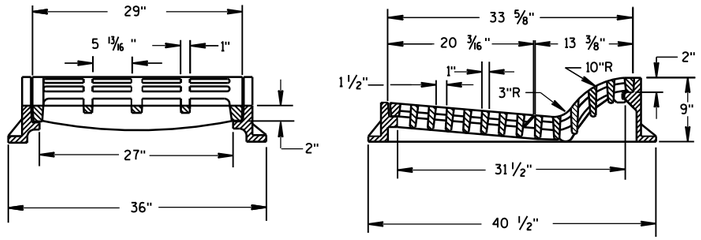
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D02-06	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D03-06	CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09B02-09	CONDUIT
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C05-09	CONCRETE CONTROL CABINET BASES
12A03-10	NAME PLATE (STRUCTURES)
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
14B07-14A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-01A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B15-08A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-08B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-08C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B16-04A	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
14B16-04B	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
14B42-03A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-03A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A02-08	DELINEATOR POST, DELINEATOR, AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15A06-02	DELINEATOR LAYOUT
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-02A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-02C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING

6

Standard Detail Drawing List

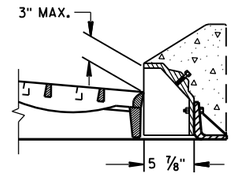
15D12-05A	TRAFFIC CONTROL, LANE CLOSURE
15D12-05B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D15-01	TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE
15D33-03	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS
15D34-01A	RAMP GATE SOLAR POWER
15D34-01B	RAMP GATE SOLAR POWER
15D34-01C	RAMP GATE SOLAR POWER
15D34-01D	RAMP GATE SOLAR POWER





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

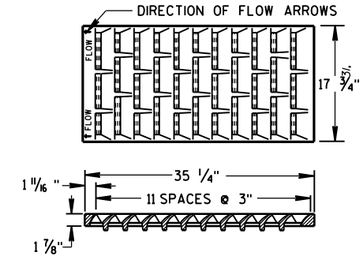
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

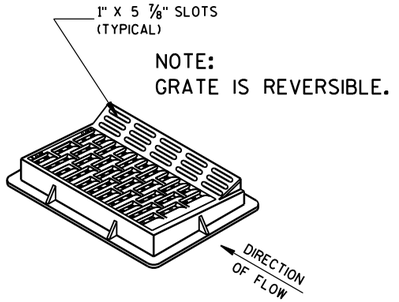
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

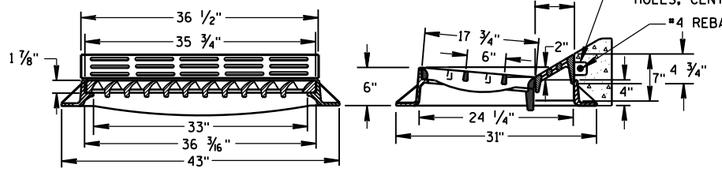
GENERAL NOTES

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.



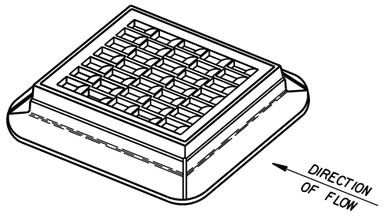


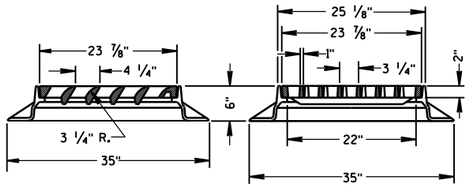


TYPE "HM"

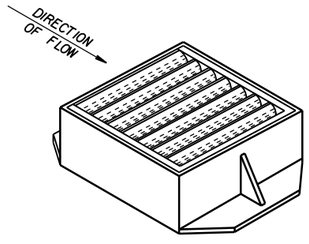
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

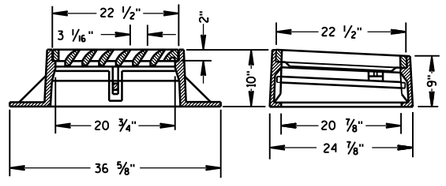
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



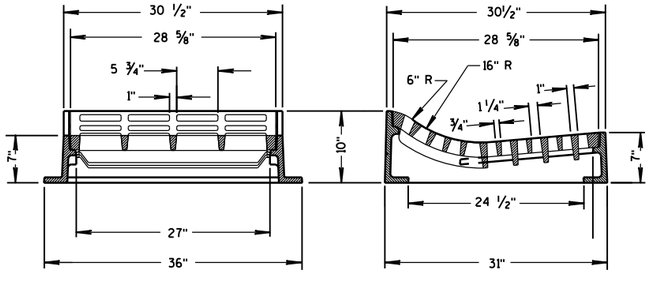


TYPE "S"



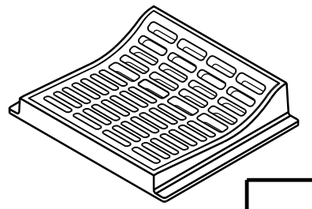


TYPE "V"



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

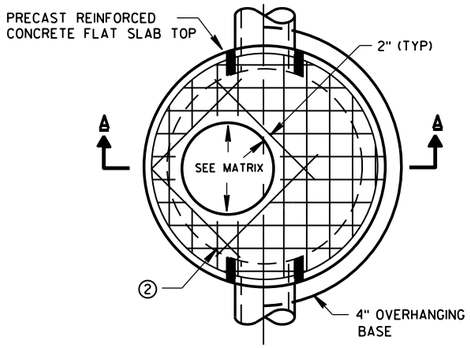
FHWA

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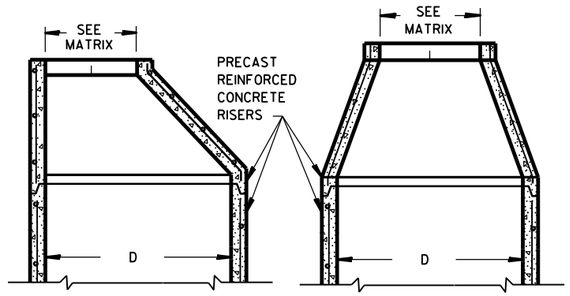
S.D.D. 8 A 5-19c

6

S.D.D. 8 A 5-19c

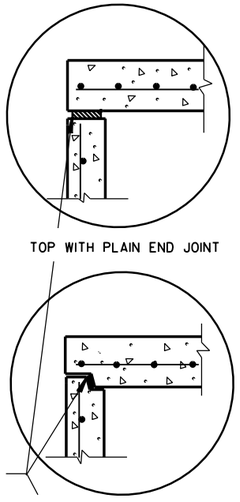


PLAN VIEW CIRCULAR OPENING



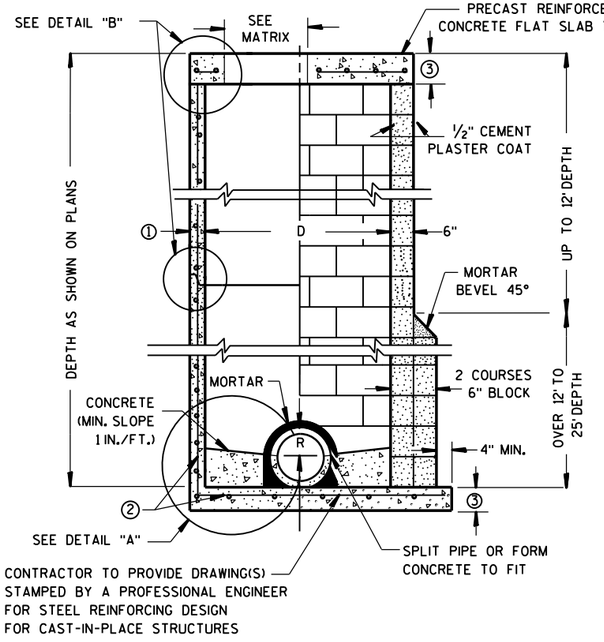
OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



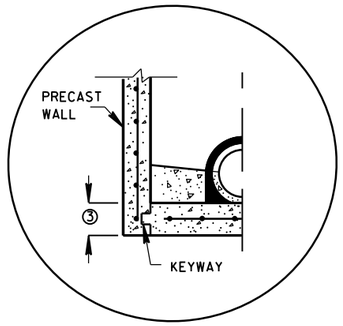
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

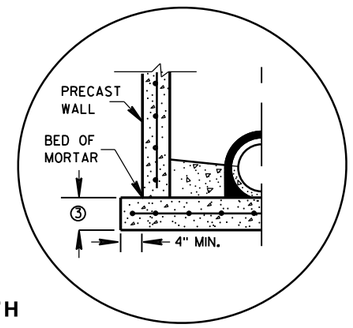


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

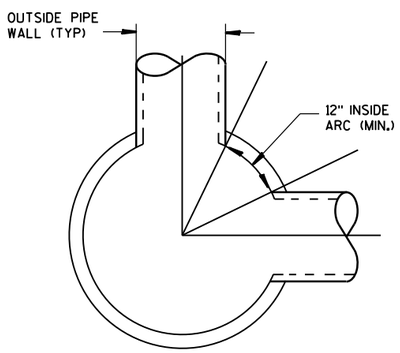


PRECAST REINFORCED
CONCRETE WITH INTEGRAL BASE OPTION



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 GRANULAR 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. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

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

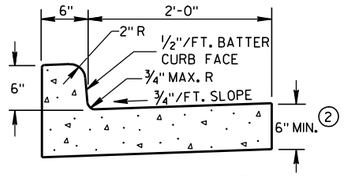
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

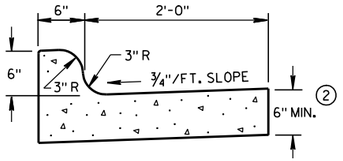
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

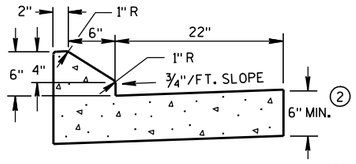
6
S.D.D. 8 B 9-1



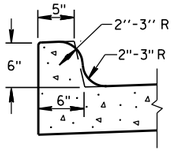
TYPES A & D (1)



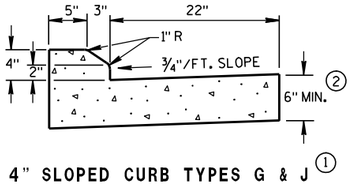
TYPES K & L (1)



6" SLOPED CURB TYPES G & J (1)

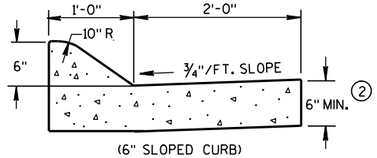


OPTIONAL CURB SHAPE FOR TYPES K & L (1)

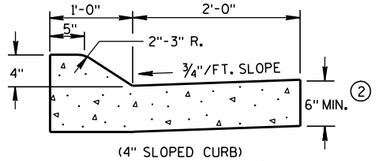


4" SLOPED CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

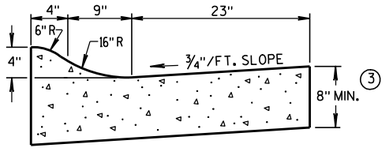


(6" SLOPED CURB)



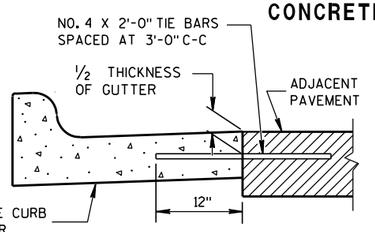
(4" SLOPED CURB)

TYPES A & D (1)

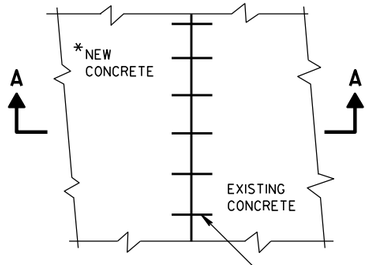


4" SLOPED CURB TYPES R & T (1) (4)

CONCRETE CURB & GUTTER 36"

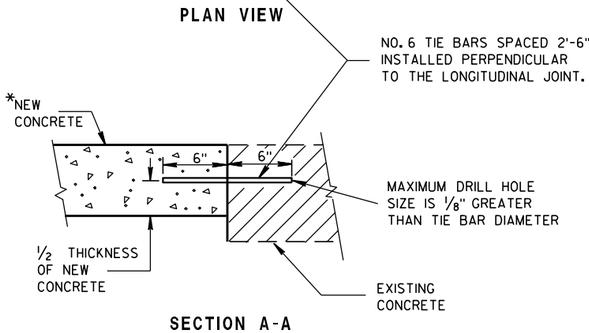


TYPICAL TIE BAR LOCATION (1)



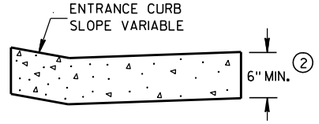
*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

PLAN VIEW

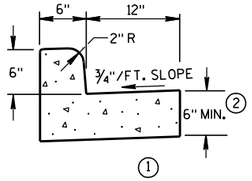


SECTION A-A

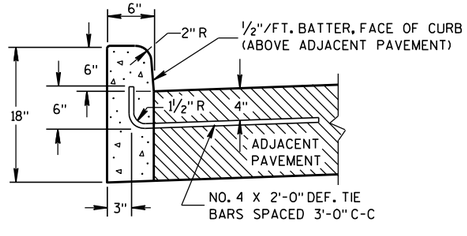
TIE BARS DRILLED INTO EXISTING PAVEMENT



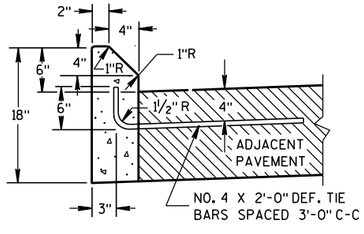
DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)



(1)
TYPES A & D
CONCRETE CURB & GUTTER 18"



(1)
TYPES A & D



(1)
TYPES G & J

CONCRETE CURB

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. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

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.

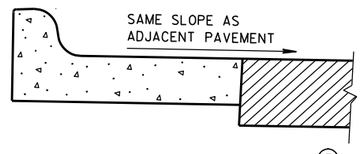
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

(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.

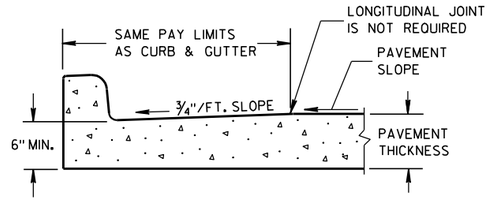
(3) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(4) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

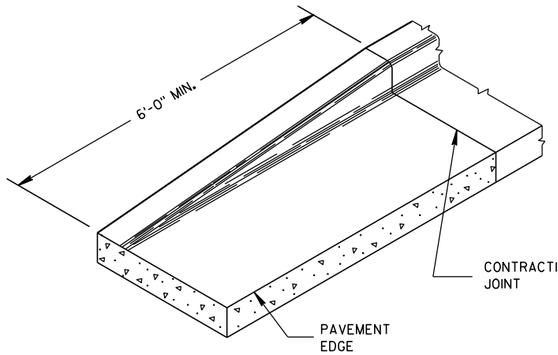
(5) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



REVERSE SLOPE GUTTER (5)
(TYPICAL FOR ALL CURB & GUTTER TYPES)



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/4/08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

FHWA

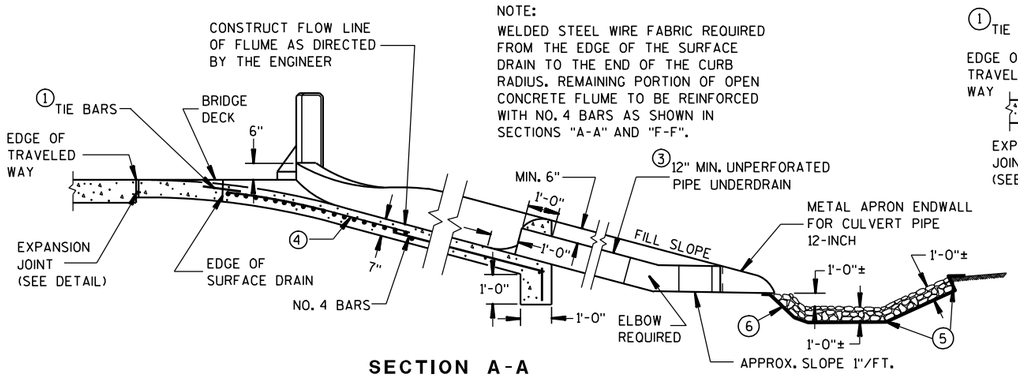
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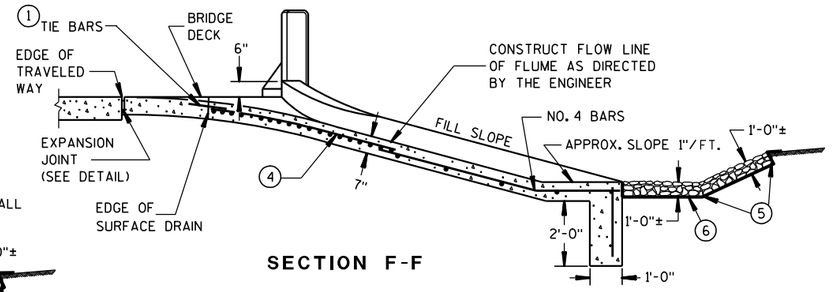
S.D.D. 8 D 1-17

6

S.D.D. 8 D 1-17



SECTION A-A



SECTION F-F

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.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) NO. 4 X 2'-0" TIE BARS SPACED AT 3'-0" CENTERS TO BE USED ONLY WHEN ADJACENT TO P.C. CONCRETE.

(2) NO. 4 X 2'-0" TIE BARS SPACED AT 12" CENTERS TO BE PLACED BY BRIDGE CONTRACTOR, OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PIPE UNDERDRAIN MAY BE ANY OF THE MATERIALS LISTED IN SECTION 612.2 OF THE STANDARD SPECIFICATIONS EXCEPT DRAIN TILE.

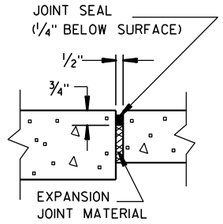
(4) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C-C.

(5) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

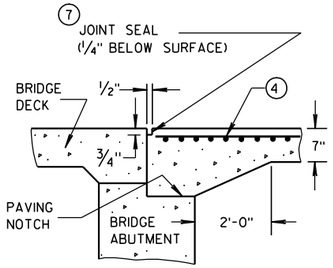
(6) GEOTEXTILE FABRIC, TYPE 'R"

(7) HOT POURED SEALANT UNLESS OTHERWISE SPECIFIED.

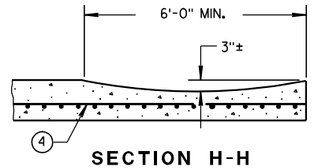
(8) THIS DIMENSION MAY VARY DEPENDING ON THE SPACING OF POSTS FOR THE STEEL PLATE BEAM GUARD. THE TYPICAL LOCATION FOR THE SURFACE DRAIN IS WHERE THE POST SPACING WIDENS TO 3'-1½".



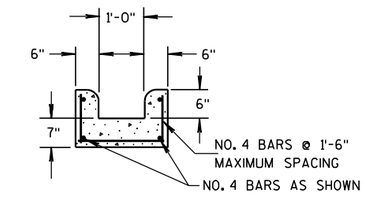
EXPANSION JOINT DETAIL



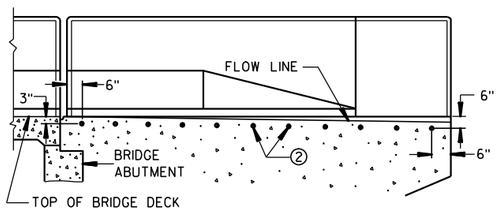
SECTION D-D



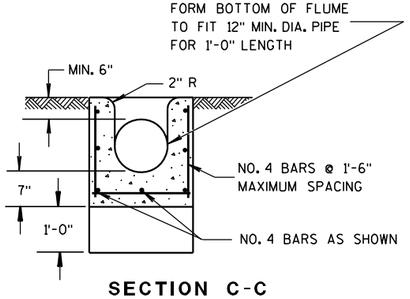
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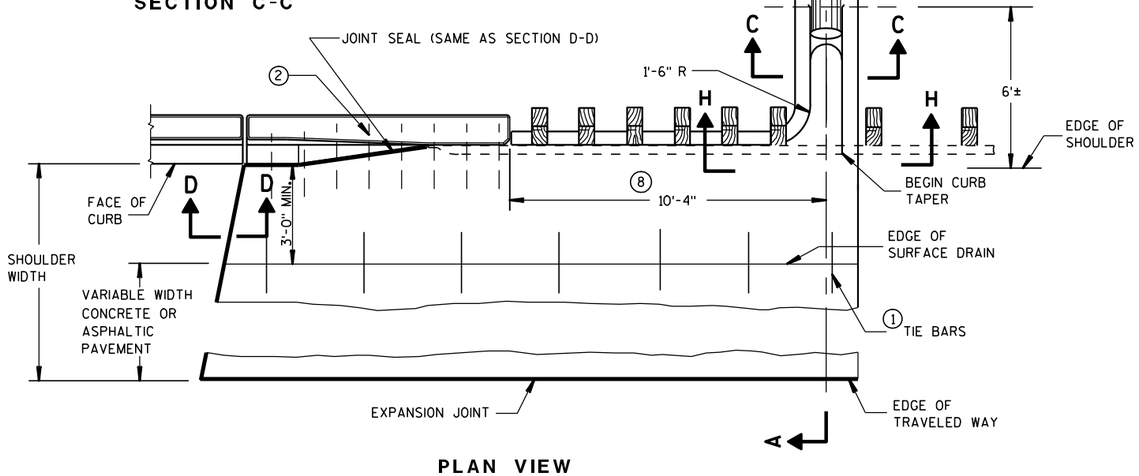
SECTION E-E



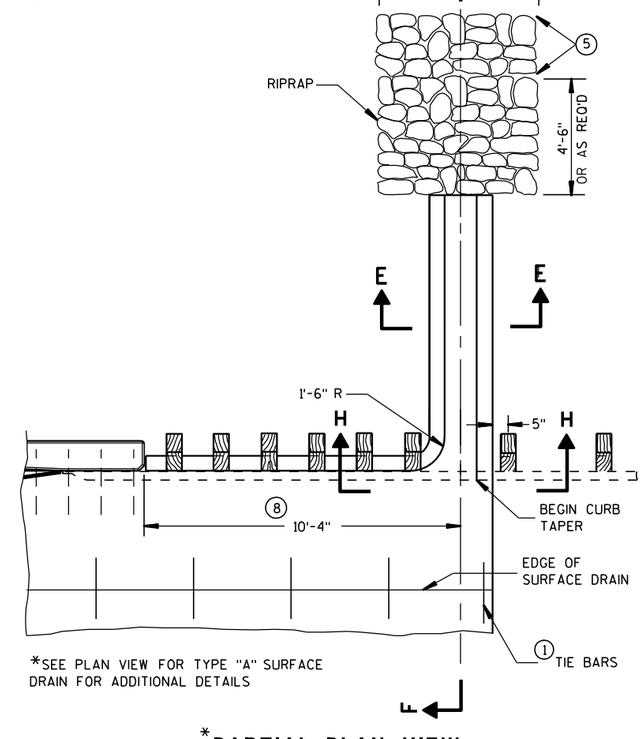
LOCATION OF TIE BARS IN WINGWALL



SECTION C-C



PLAN VIEW
SURFACE DRAIN WITH PIPE
TYPE "A"



*SEE PLAN VIEW FOR TYPE "A" SURFACE DRAIN FOR ADDITIONAL DETAILS

***PARTIAL PLAN VIEW**
SURFACE DRAIN WITHOUT PIPE
TYPE "B"

CONCRETE SURFACE DRAINS
FLUME TYPE
AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

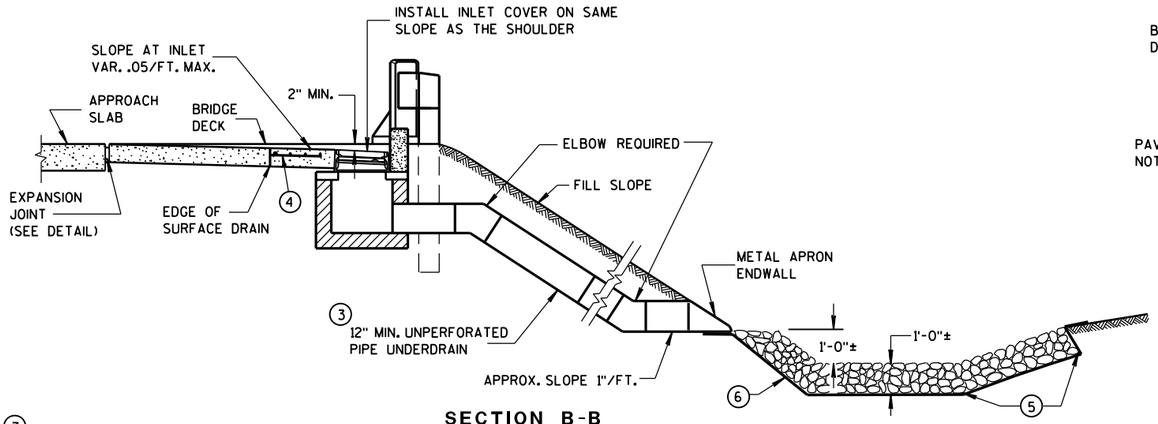
APPROVED
9/4/08 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
140
FHWA

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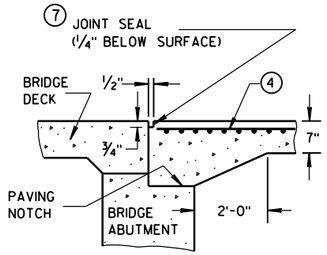
S.D.D. 8 D 2-6

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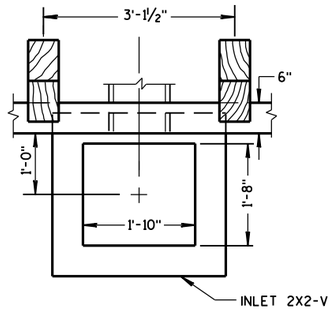
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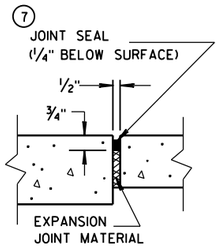
SECTION B-B



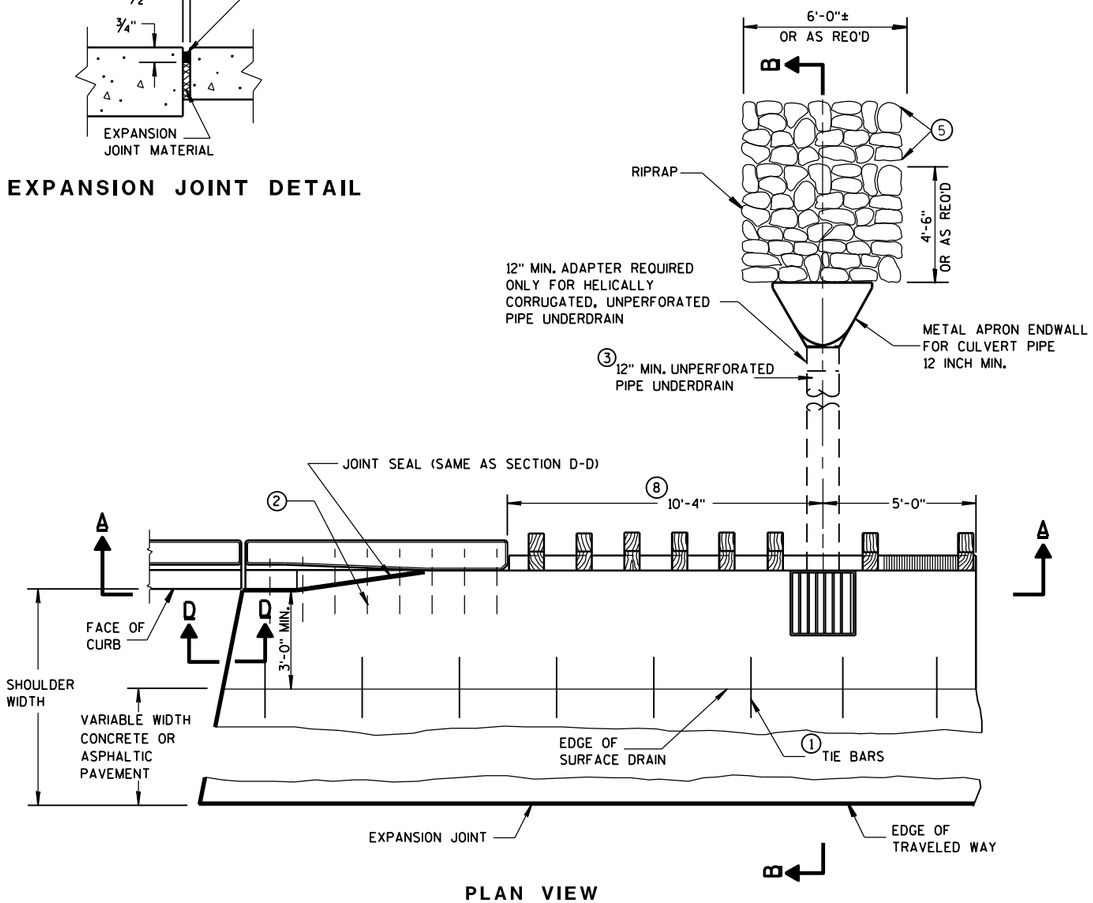
SECTION D-D



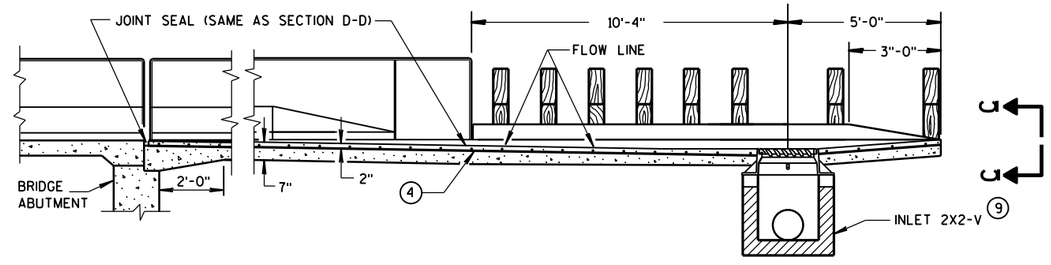
PLAN VIEW



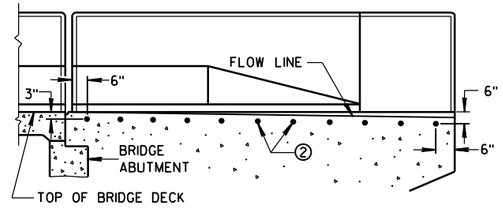
EXPANSION JOINT DETAIL



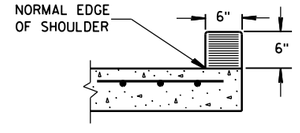
PLAN VIEW



SECTION A-A



LOCATION OF TIE BARS IN WINGWALL



SECTION C-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.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) NO. 4 X 2'-0" TIE BARS SPACED AT 3'-0" CENTERS TO BE USED ONLY WHEN ADJACENT TO P.C. CONCRETE.

(2) NO. 4 X 2'-0" TIE BARS SPACED AT 12" CENTERS TO BE PLACED BY BRIDGE CONTRACTOR, OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) THE PIPE UNDERDRAIN MAY BE ANY ONE OF THE SIX MATERIALS LISTED IN THE STANDARD SPECIFICATIONS SECTION 612.2 EXCEPT DRAIN TILE.

(4) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C-C.

(5) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

(6) GEOTEXTILE FABRIC, TYPE 'R'

(7) HOT POURED SEALANT UNLESS OTHERWISE SPECIFIED.

(8) THIS DIMENSION MAY VARY DEPENDING ON THE SPACING OF POSTS FOR THE STEEL PLATE BEAM GUARD. THE TYPICAL LOCATION FOR THE SURFACE DRAIN IS WHERE THE POST SPACING WIDENS TO 3'-1½".

(9) SEE CURRENT STANDARD DETAIL DRAWINGS 8A5 AND 8C7 FOR DETAILS.

CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/4/08
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

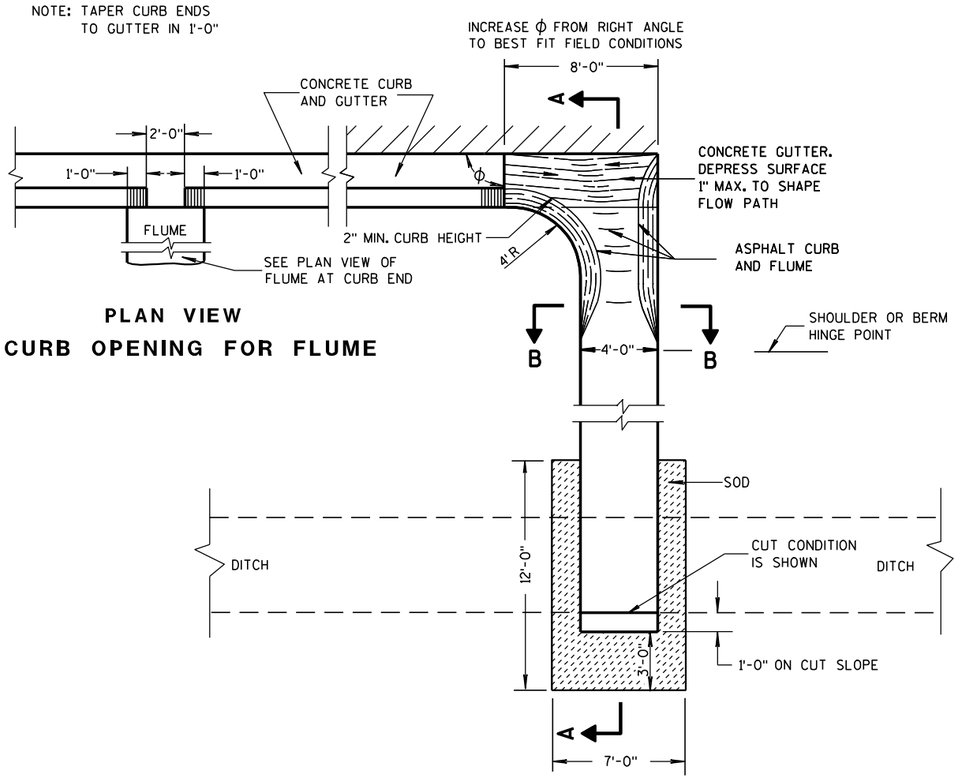
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S.D.D. 8 D 3-6

6

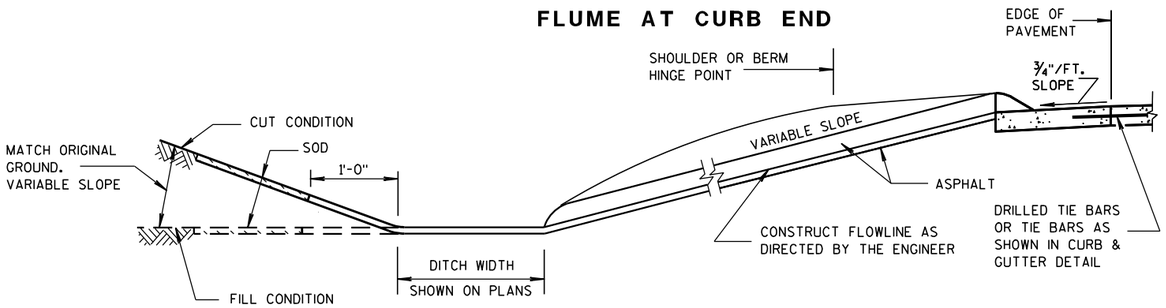
S.D.D. 8 D 3-6

ASPHALTIC FLUME

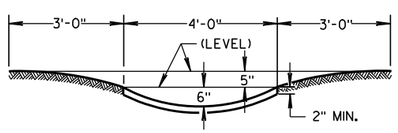


PLAN VIEW
CURB OPENING FOR FLUME

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.

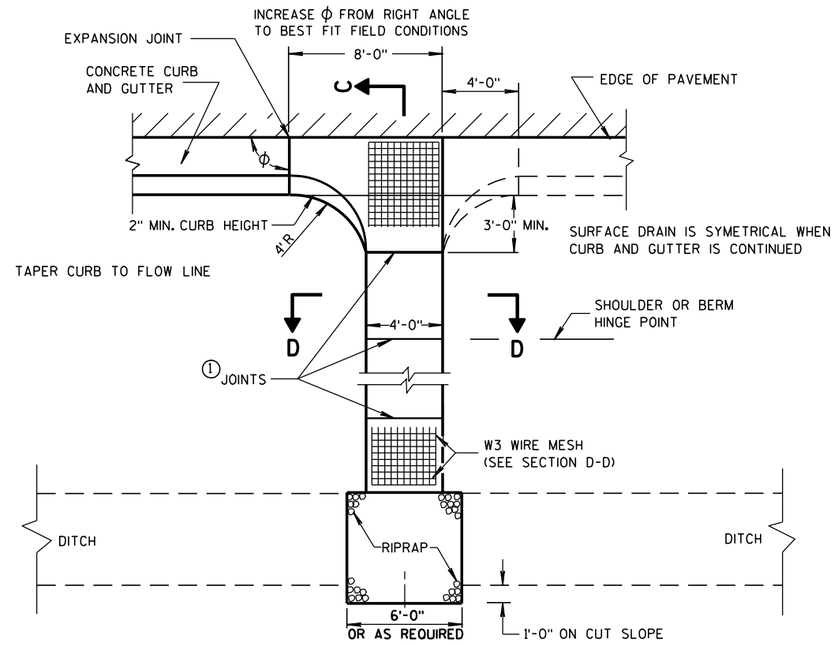
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

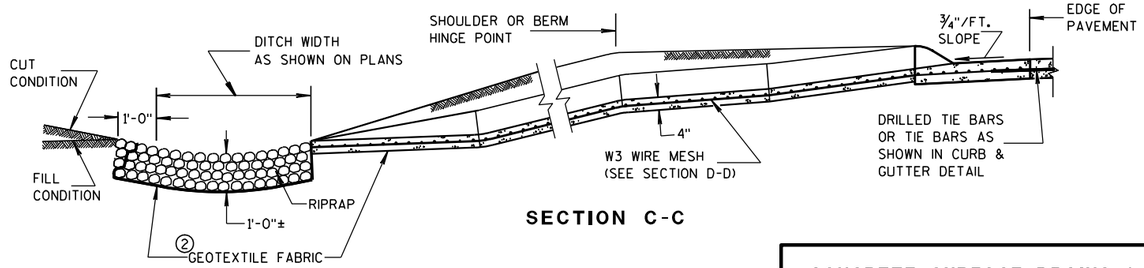
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

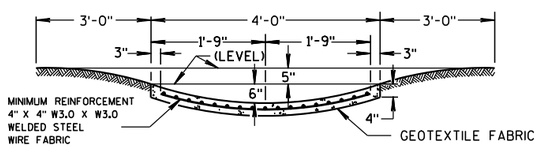
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

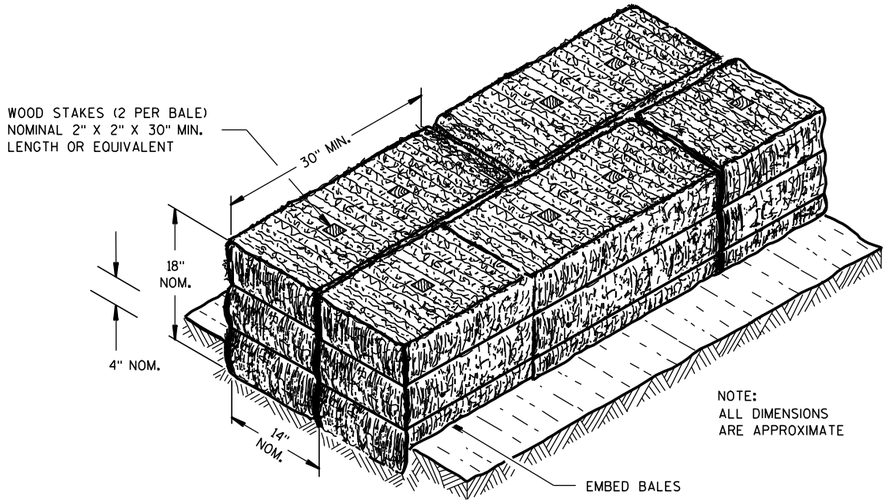
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT
FHWA

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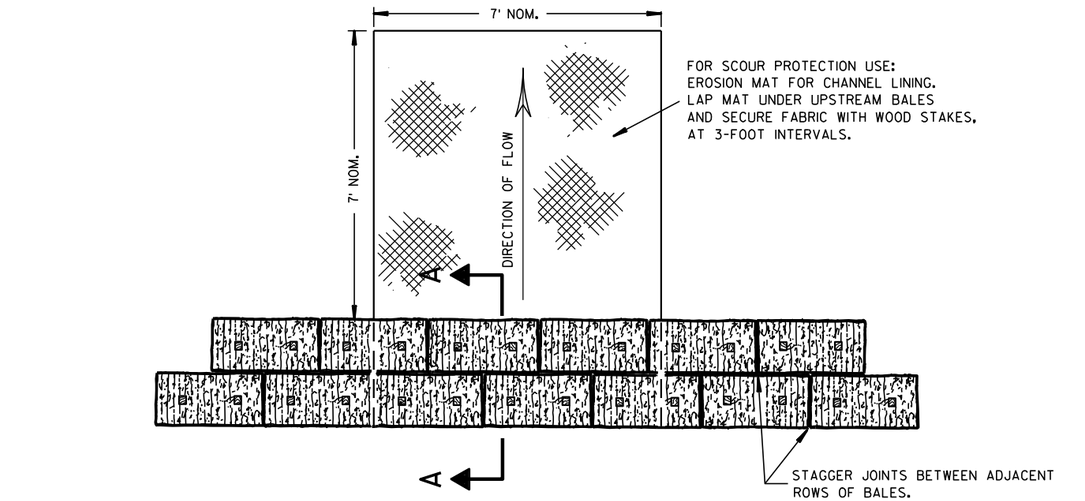
S.D.D. 8 D 4-5

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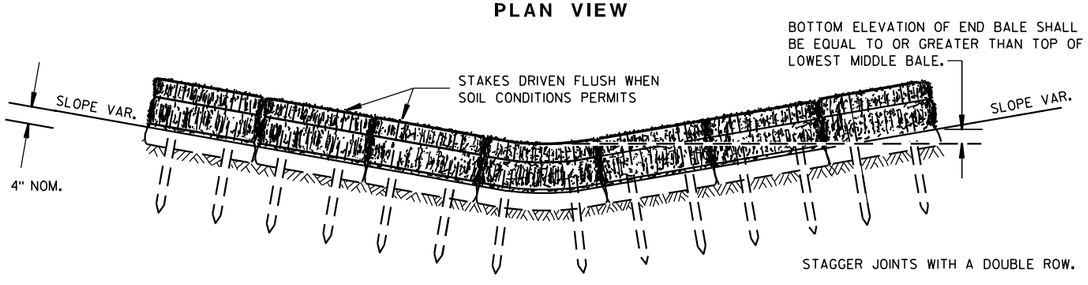
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



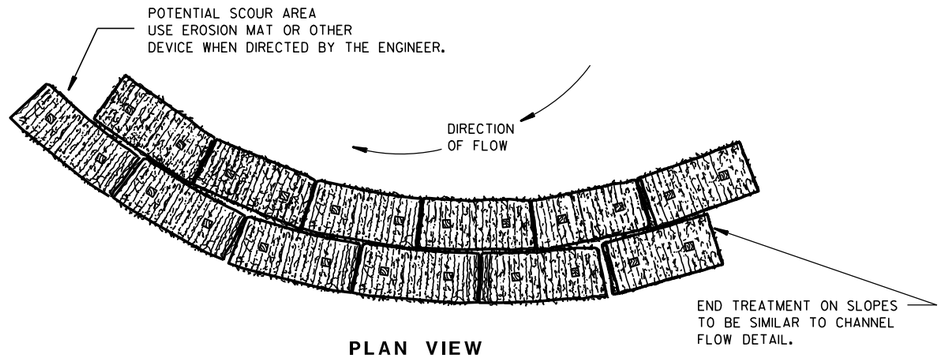
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

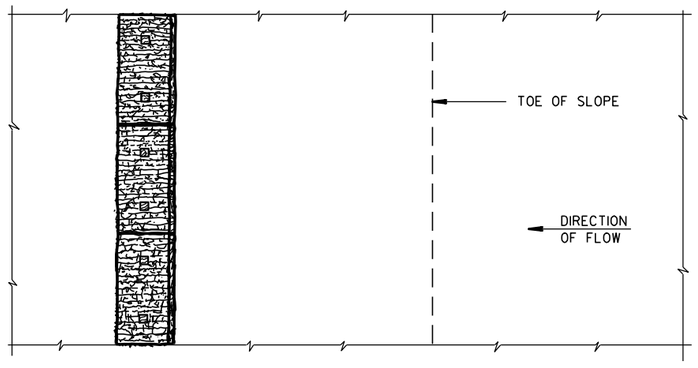
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

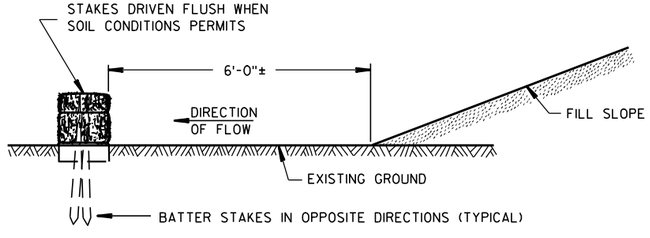


PLAN VIEW

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

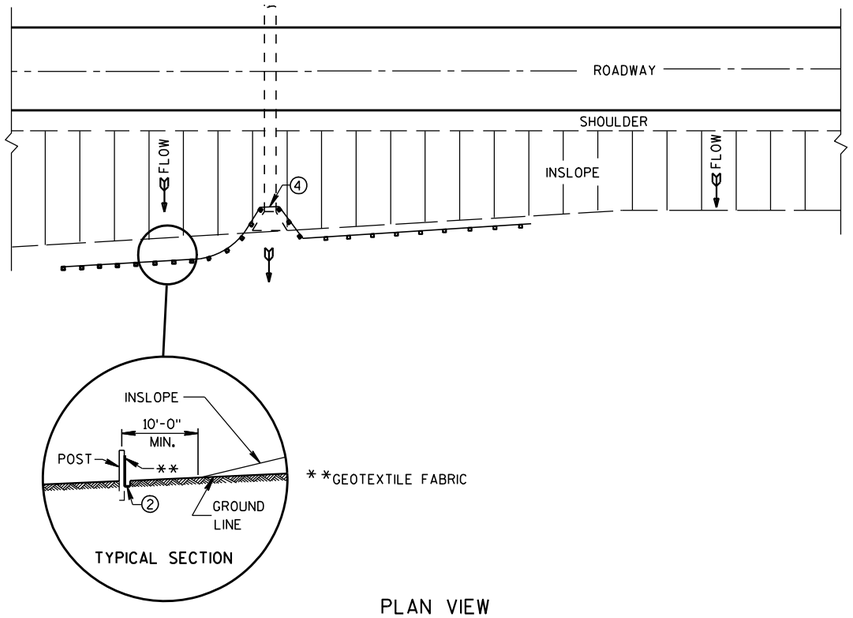
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 E 8-3

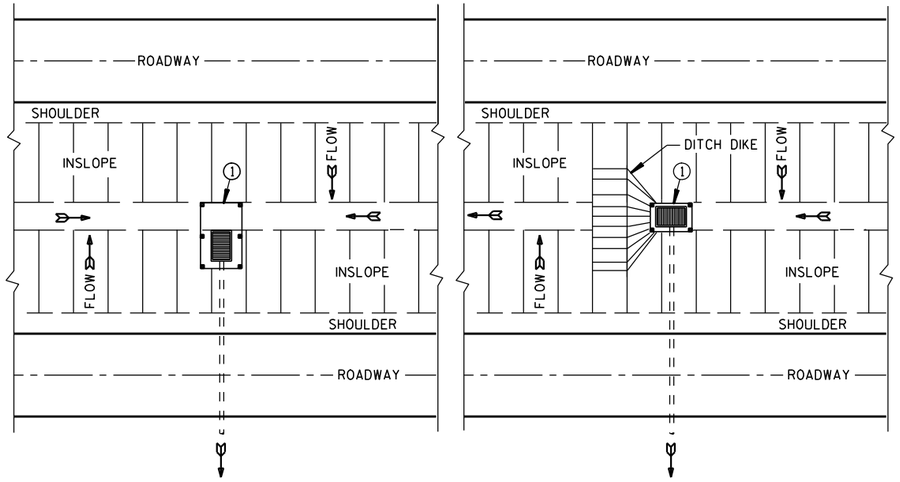
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



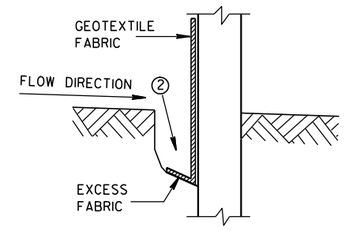
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

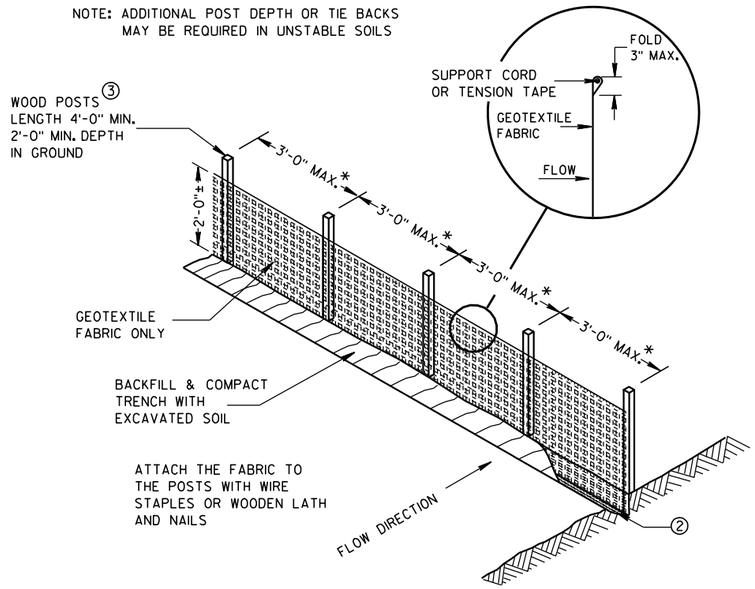
GENERAL NOTES

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

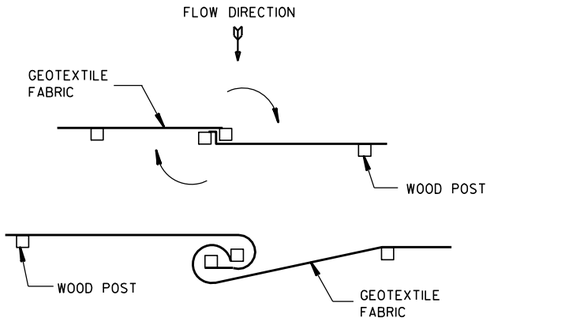
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



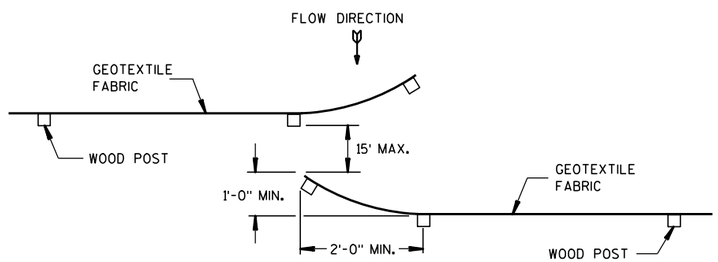
TRENCH DETAIL



SILT FENCE

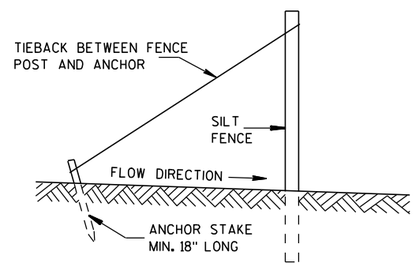


TWIST METHOD



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

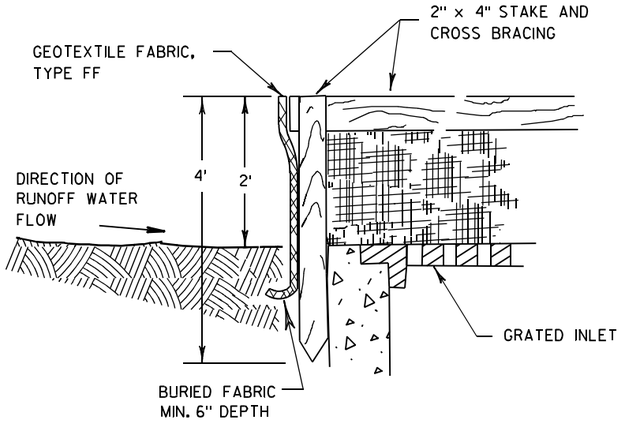
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

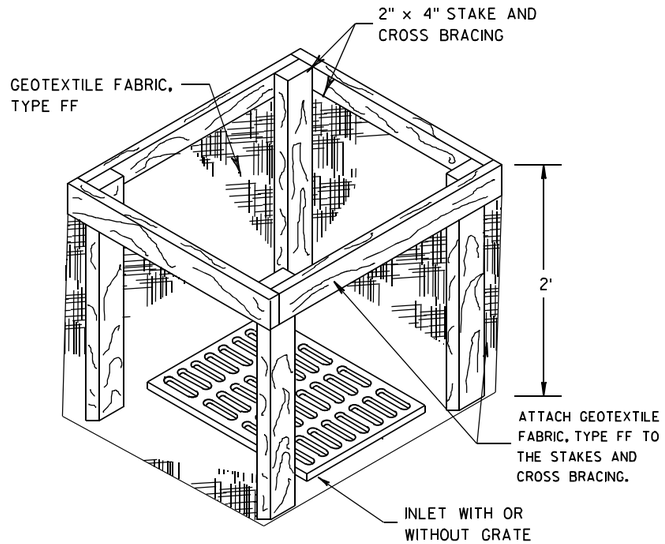
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S.D.D. 8 E 9-6

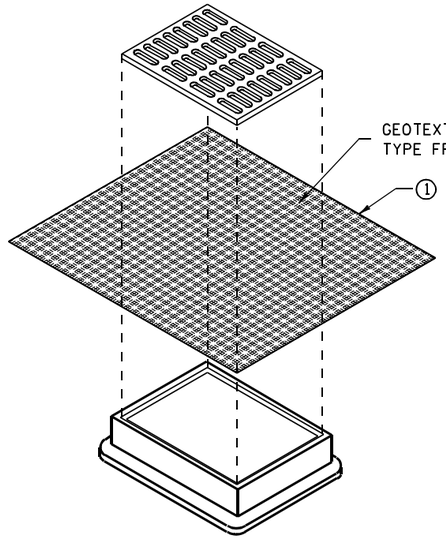
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S.D.D. 8 E 9-6



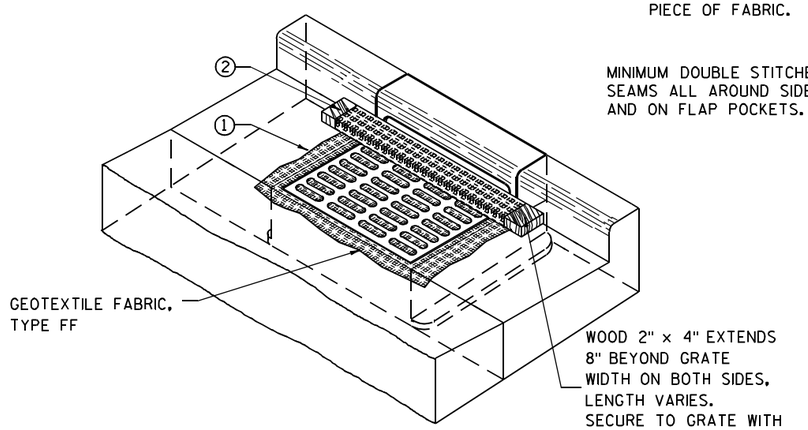


INLET PROTECTION, TYPE A

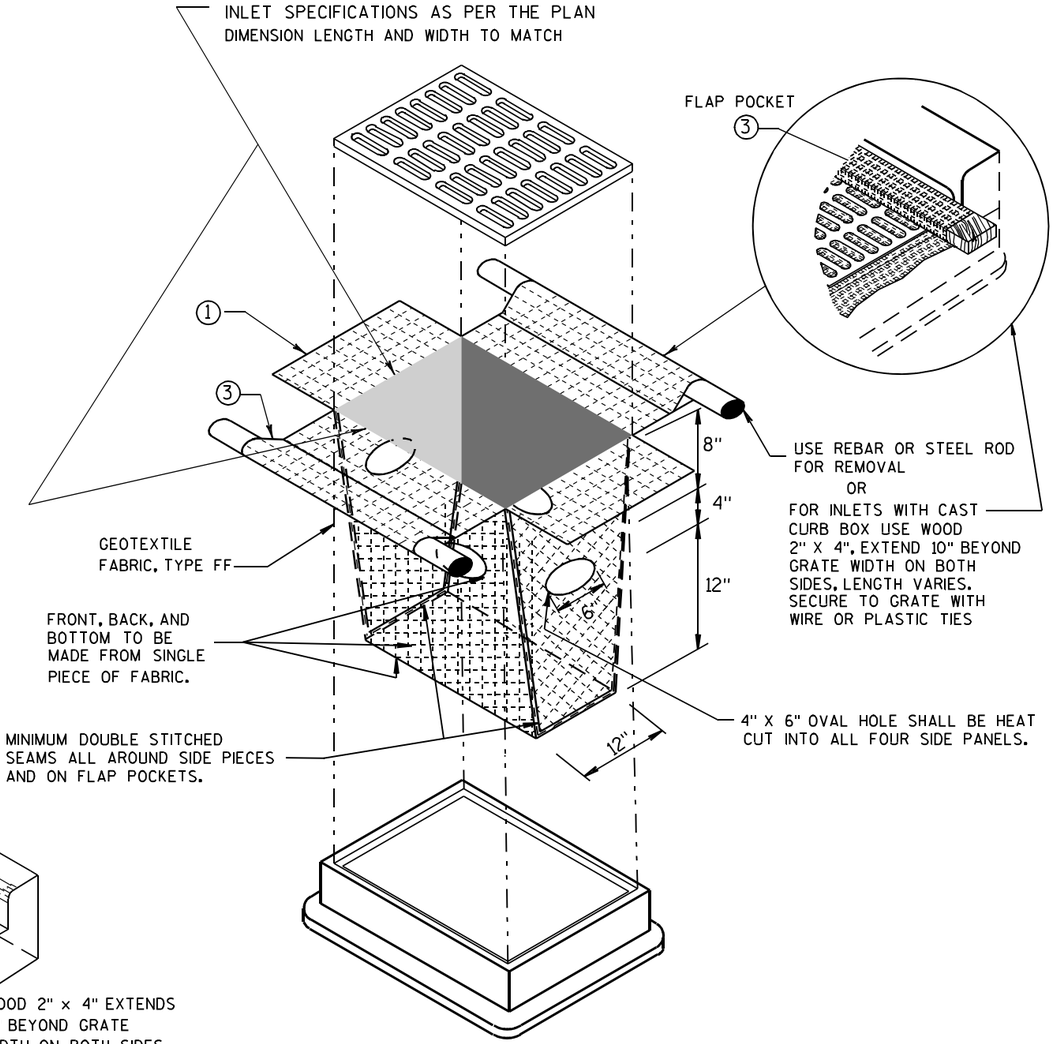


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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

METAL APRON ENDWALLS

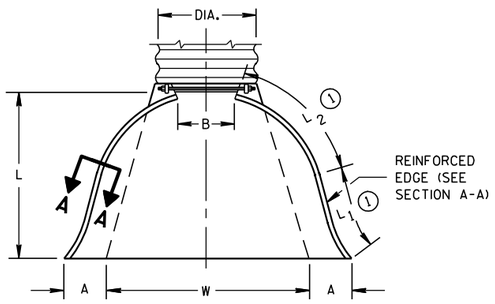
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

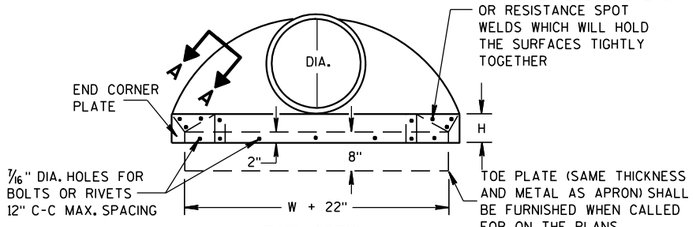
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

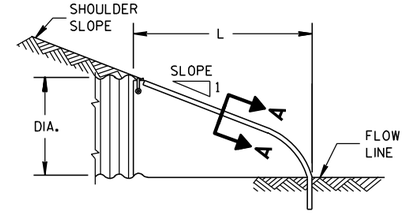
* MINIMUM
** MAXIMUM



PLAN VIEW

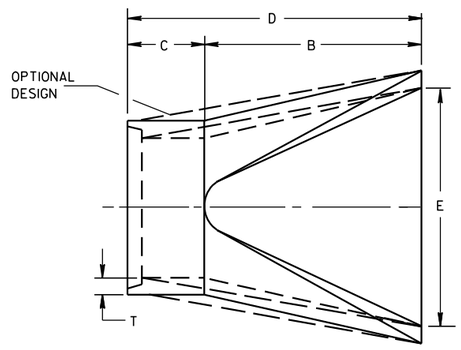


END VIEW

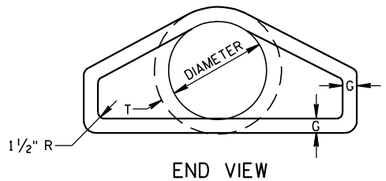


SIDE ELEVATION

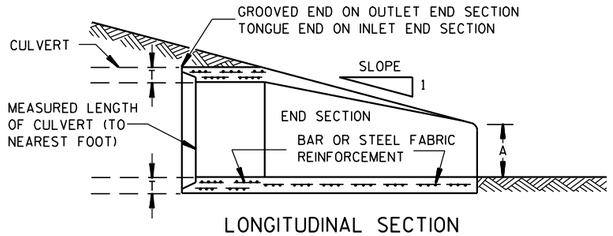
METAL ENDWALLS



PLAN

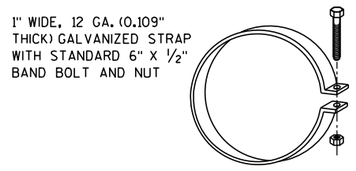


END VIEW



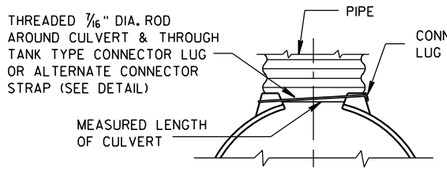
LONGITUDINAL SECTION

CONCRETE ENDWALLS

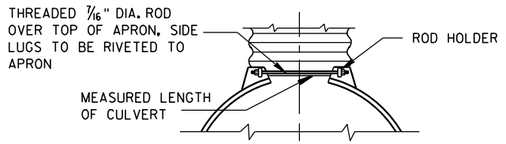


ALTERNATE FOR TYPE 1 CONNECTION

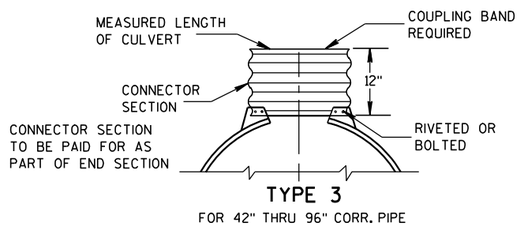
END SECTION CONNECTOR STRAP



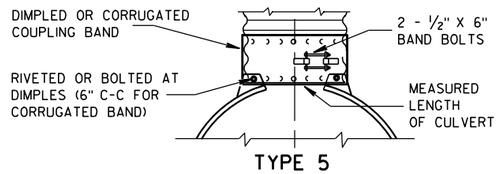
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

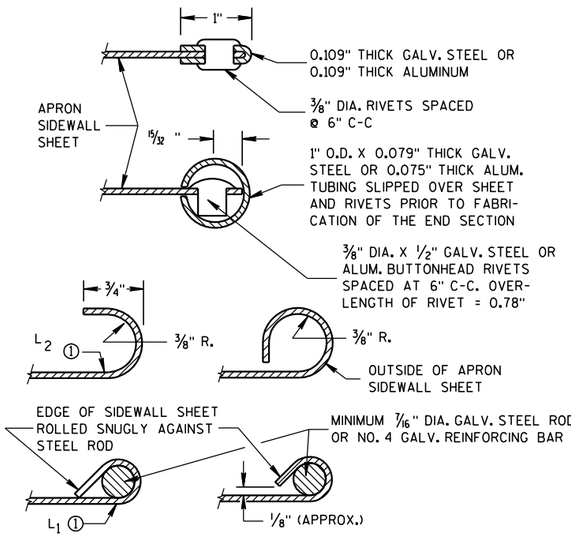
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

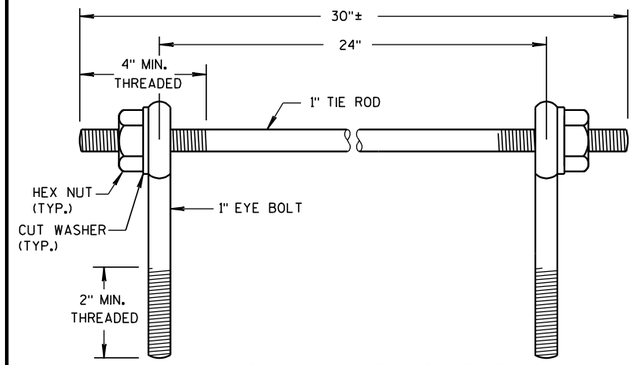
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

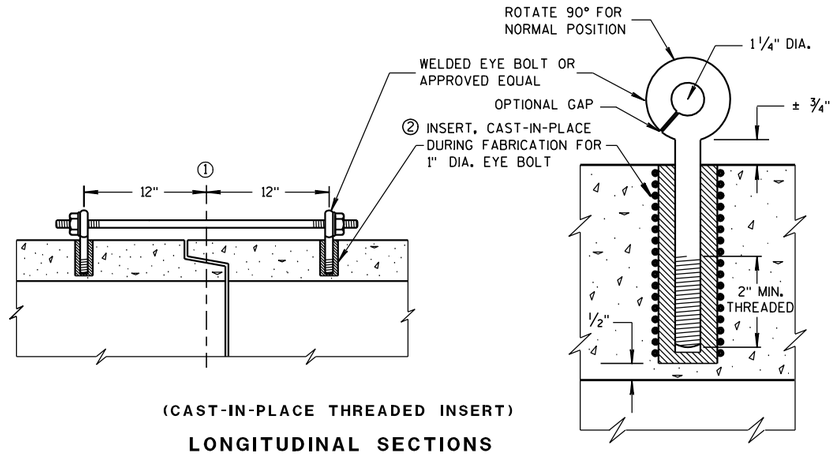
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



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.

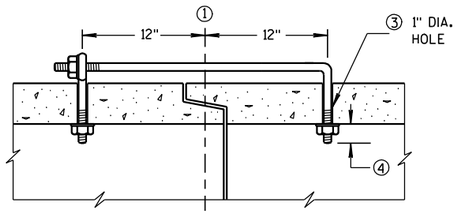
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

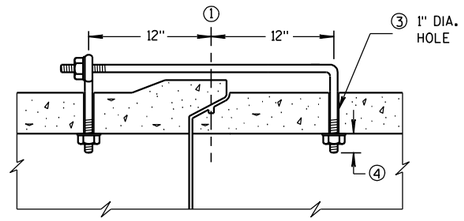
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

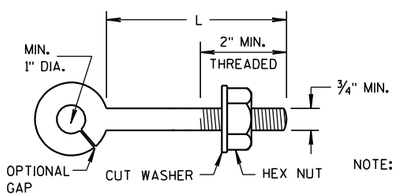


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

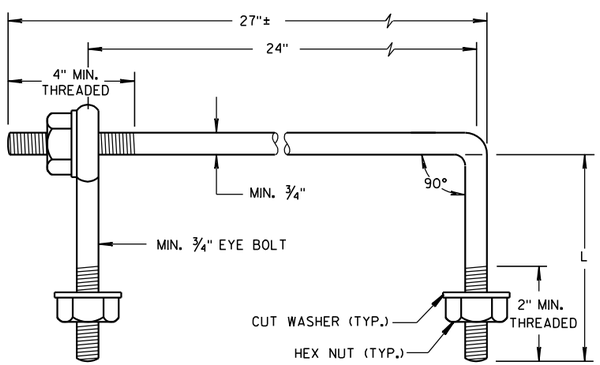
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

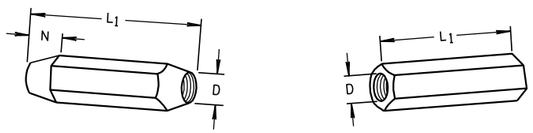
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

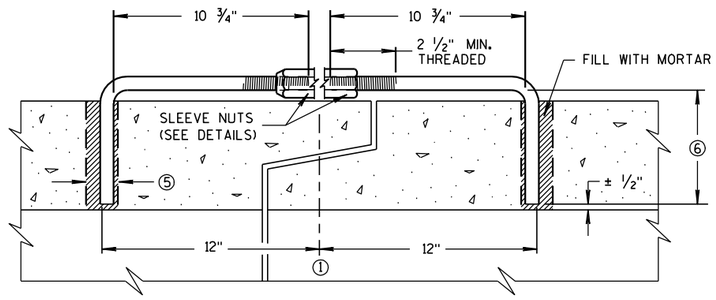
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

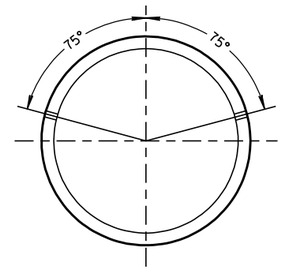
SLEEVE NUTS



LONGITUDINAL SECTION

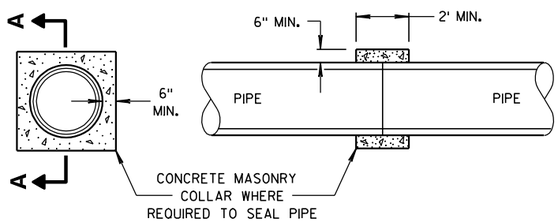
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

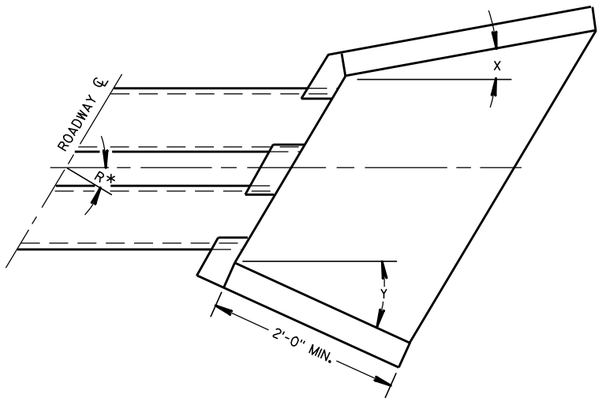
APPROVED
6/5/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
147
FHWA

6

S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

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.

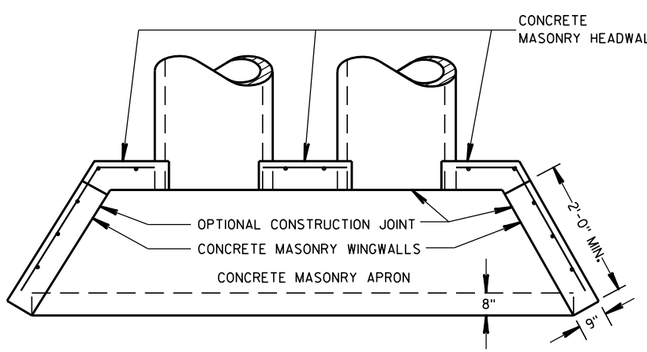
FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

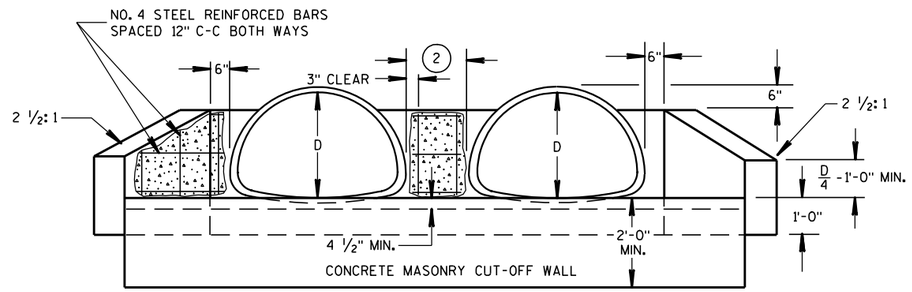
(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3'-0"



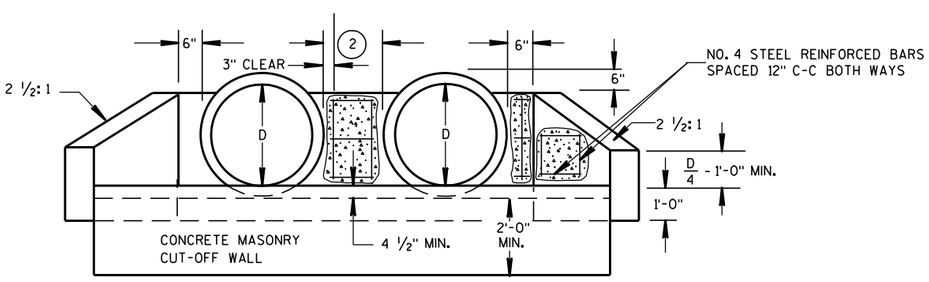
PLAN VIEW

CULVERT PIPE AND PIPE ARCH



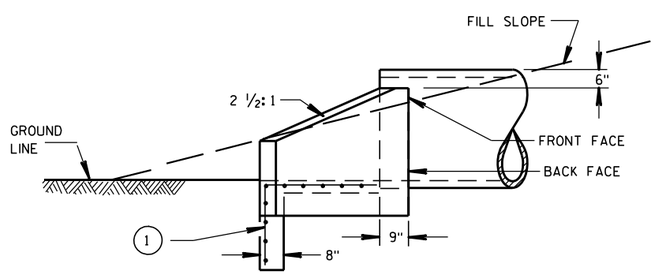
END ELEVATION

PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

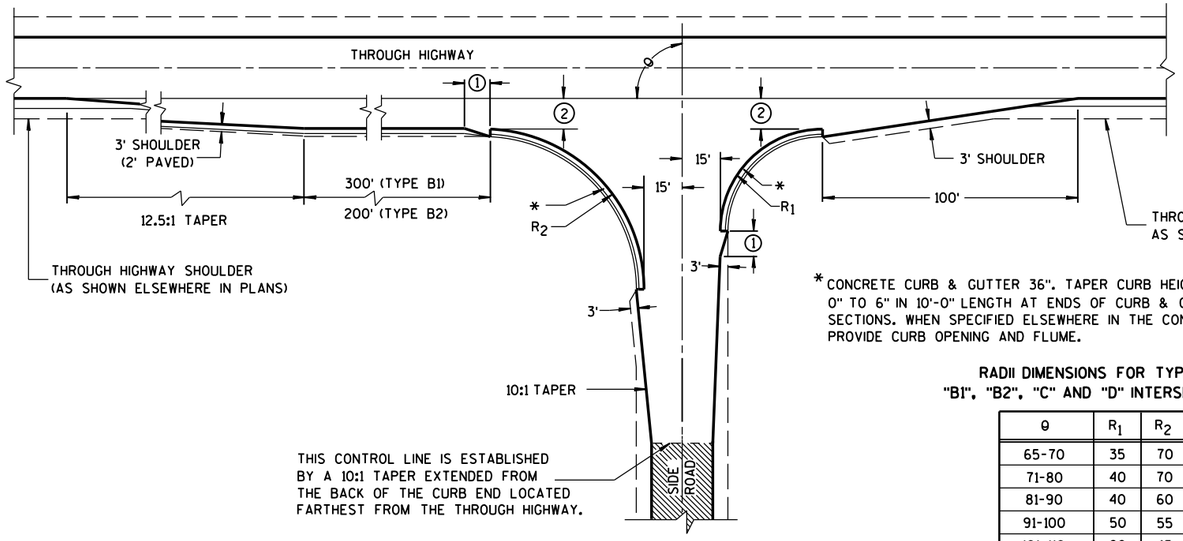
APPROVED

9/14/98 DATE

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 F 10-1

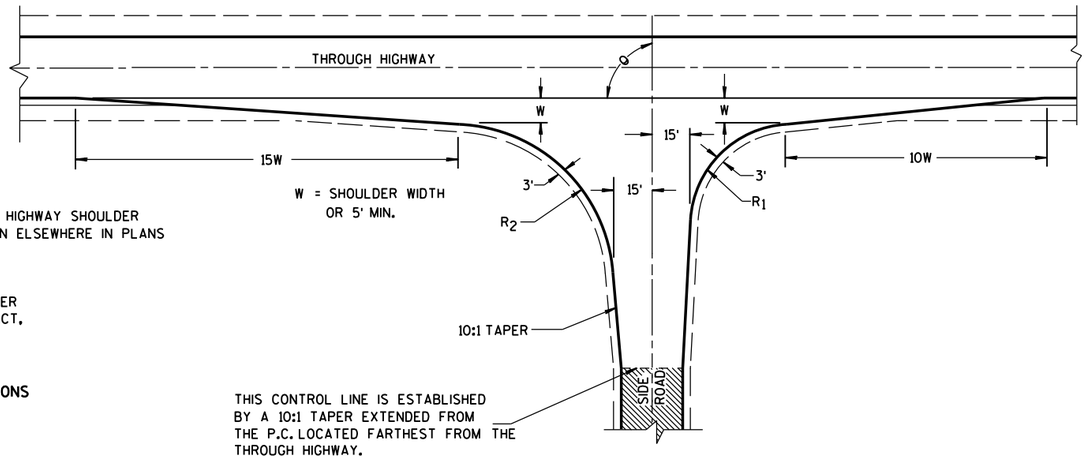


TYPE "B1" AND "B2"

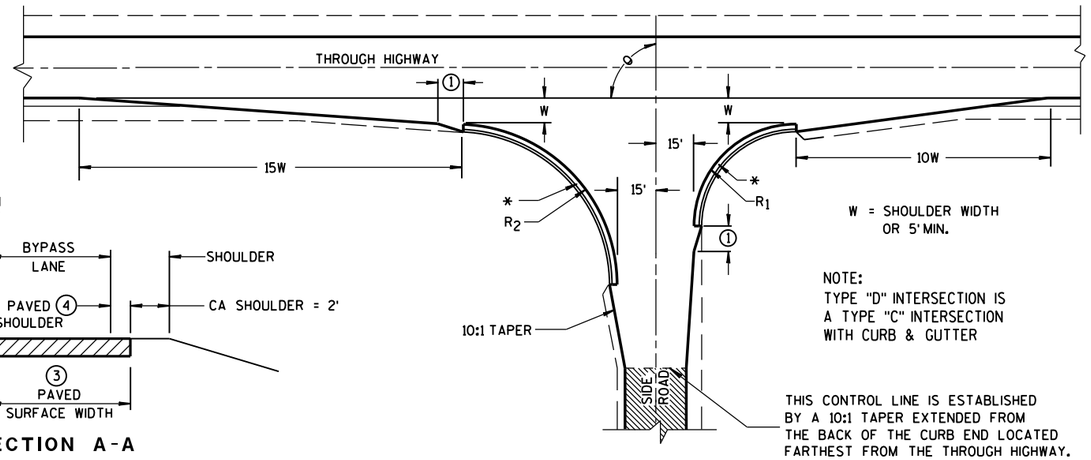
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

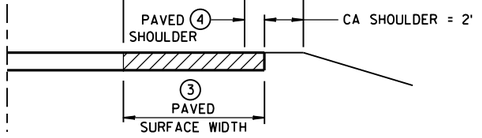
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

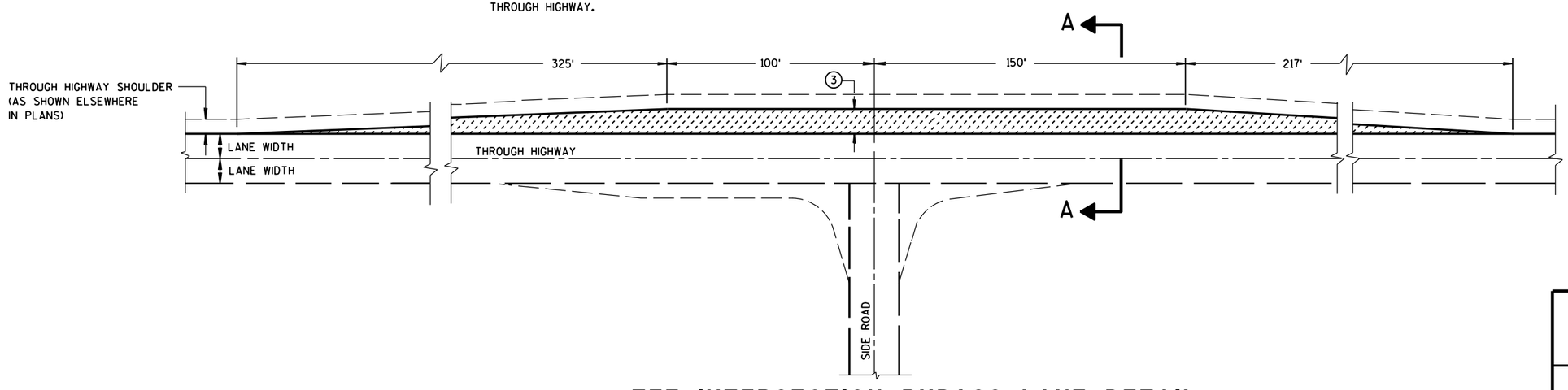
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



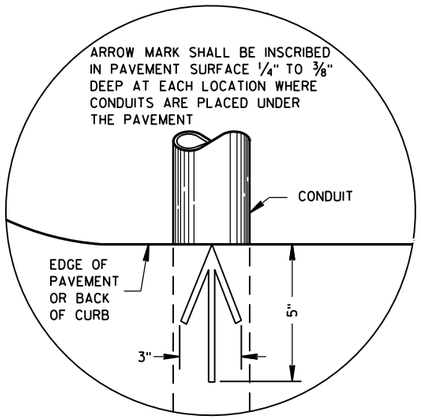
TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

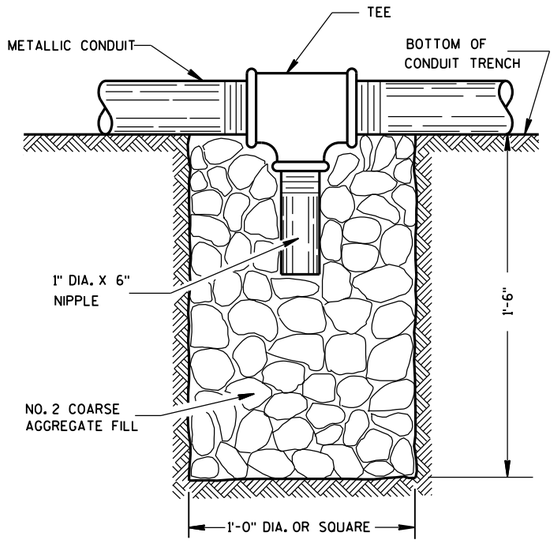
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S.D.D. 9 A 1-13a



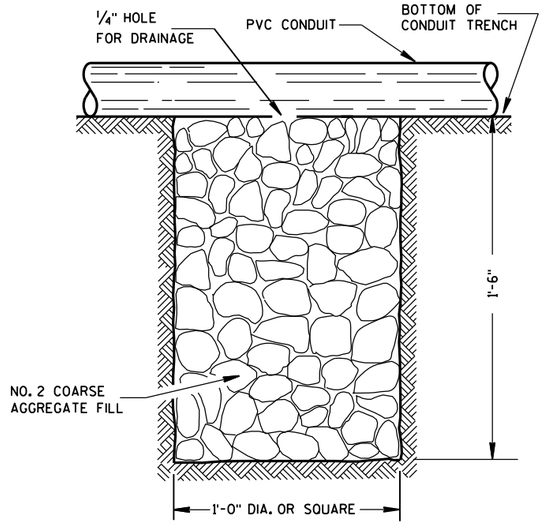
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

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.

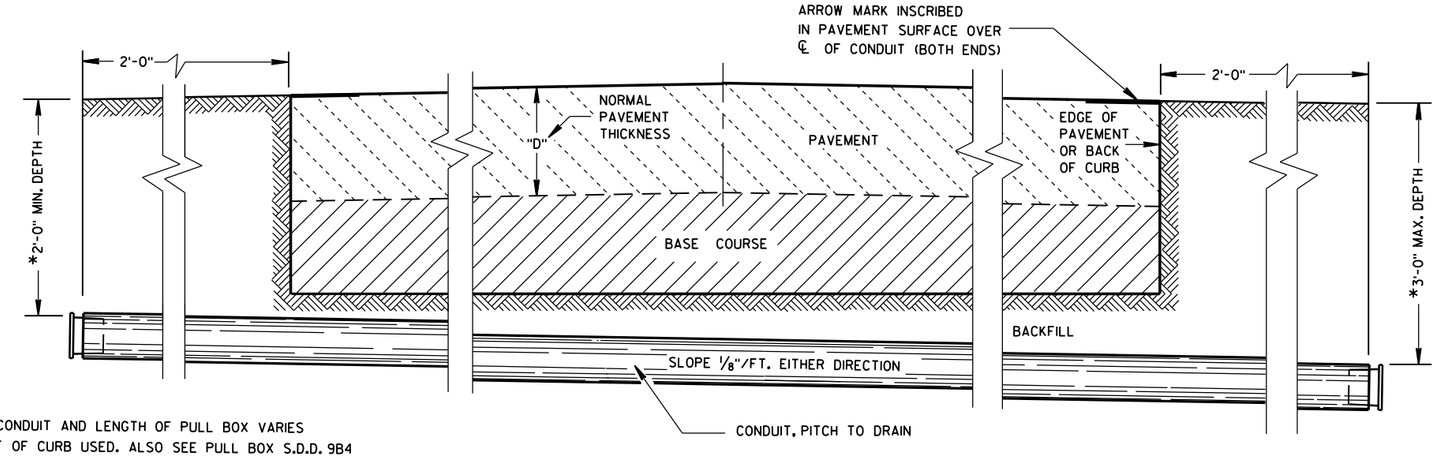
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

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.



*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

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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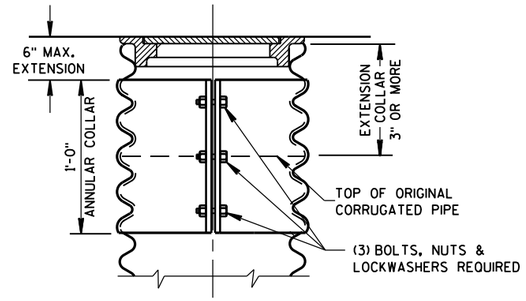
S.D.D. 9 B 2-9

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

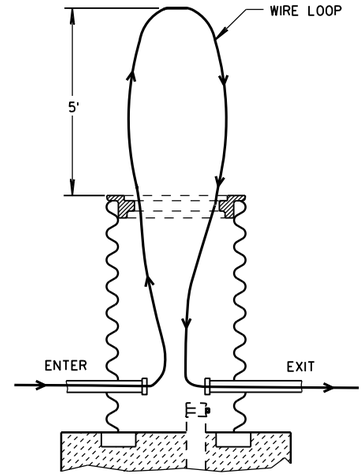
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	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.

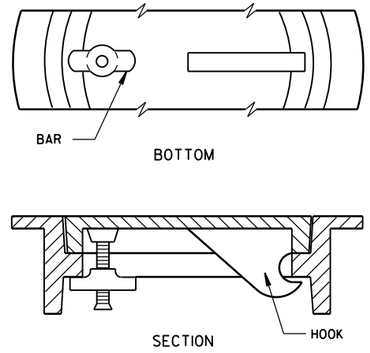
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

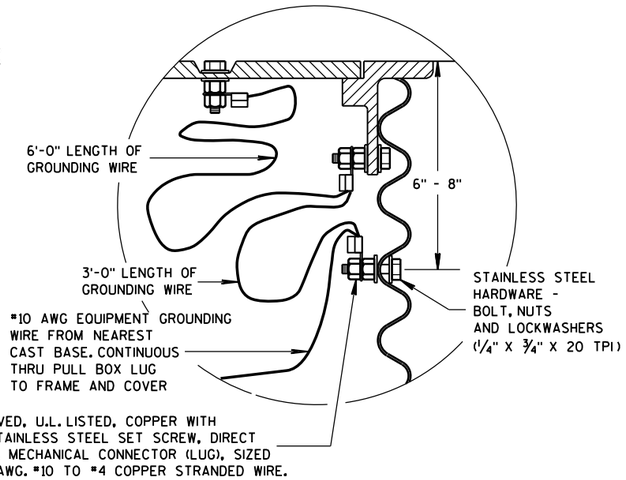


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

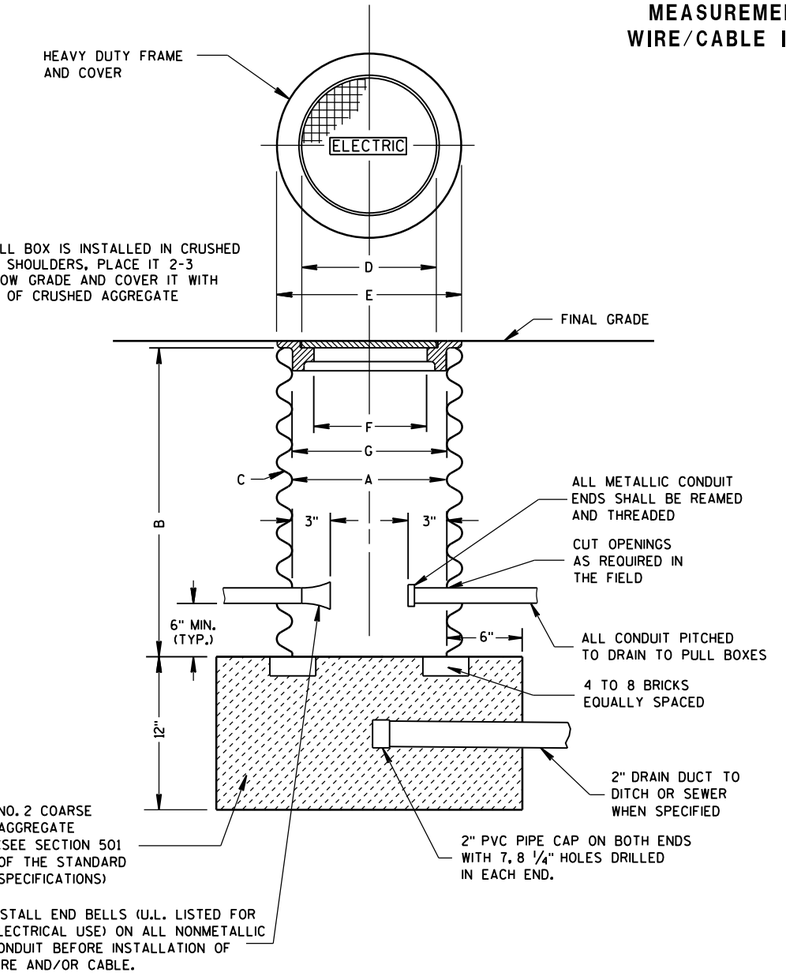


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX

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.

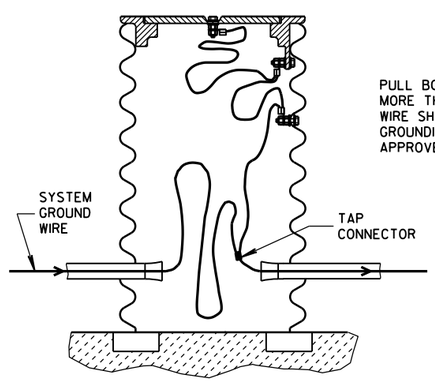
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

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

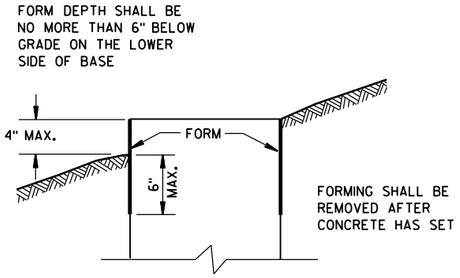
PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

6

S.D.D. 9 B 4-11



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 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.

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 NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

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) FOR TYPE 1, TYPE 2, TYPE 5, AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES 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" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END 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 BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

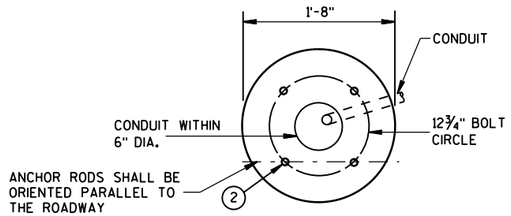
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

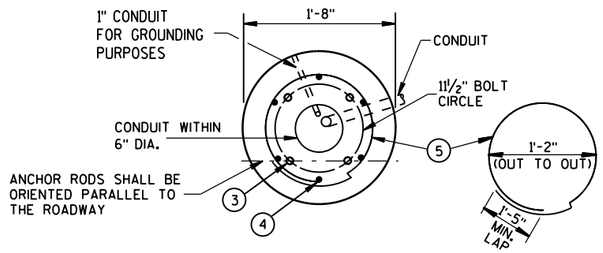
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

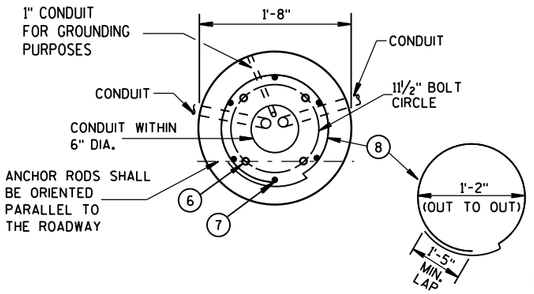
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

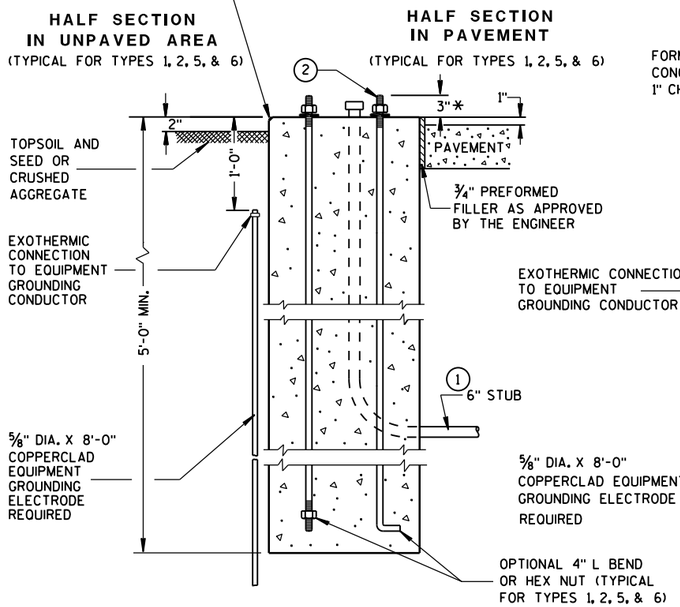






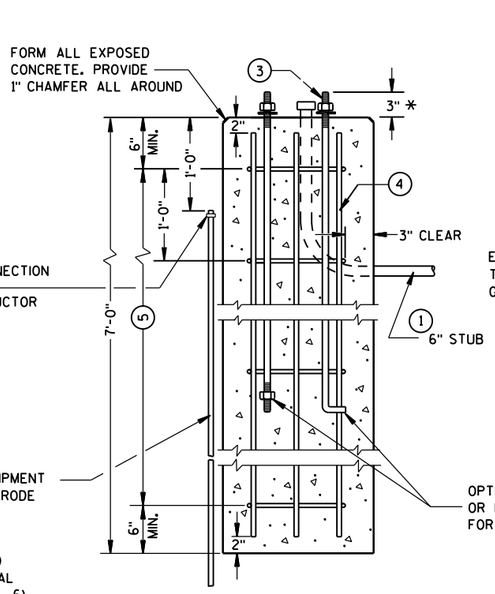
HALF SECTION IN UNPAVED AREA

(TYPICAL FOR TYPES 1, 2, 5, & 6)

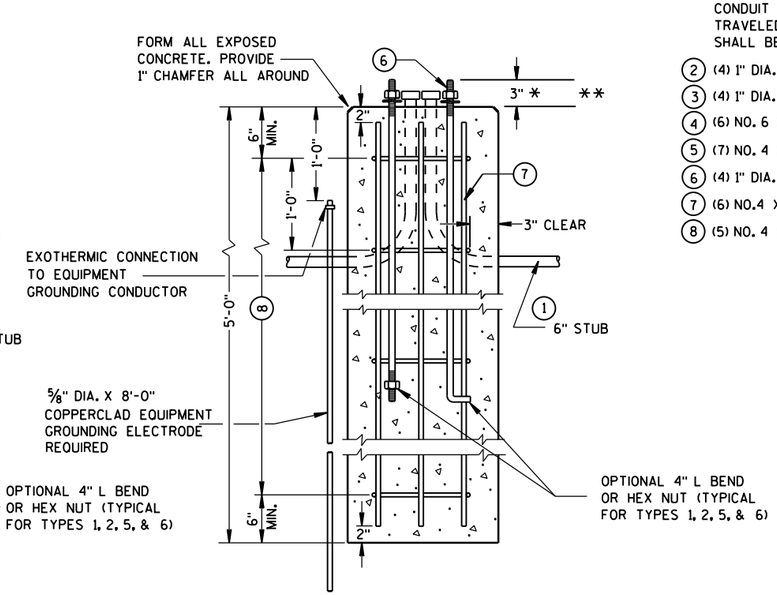


HALF SECTION IN PAVEMENT

(TYPICAL FOR TYPES 1, 2, 5, & 6)



TYPE 2



TYPE 5 & 6

CONCRETE BASES

* 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.

CONCRETE BASES, TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 2-7

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.

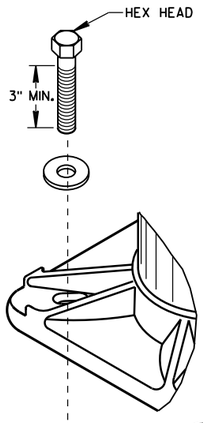
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

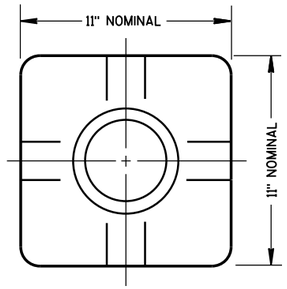
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

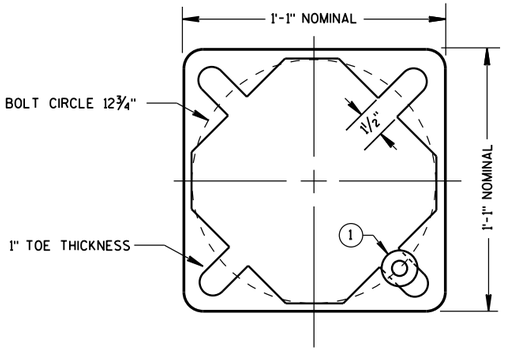
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

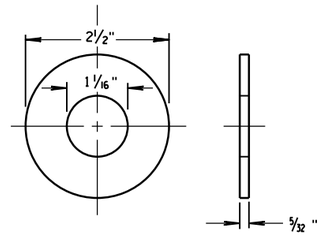




TOP VIEW
(PEDESTAL BASE)

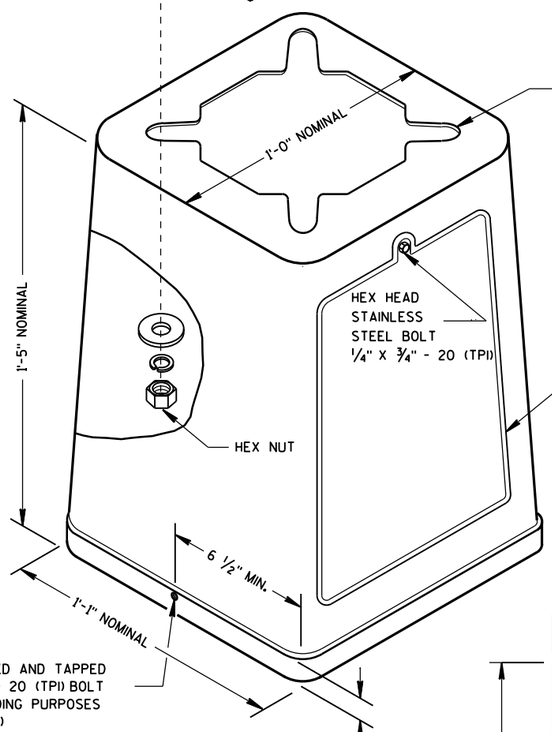


BOTTOM VIEW
(PEDESTAL BASE)

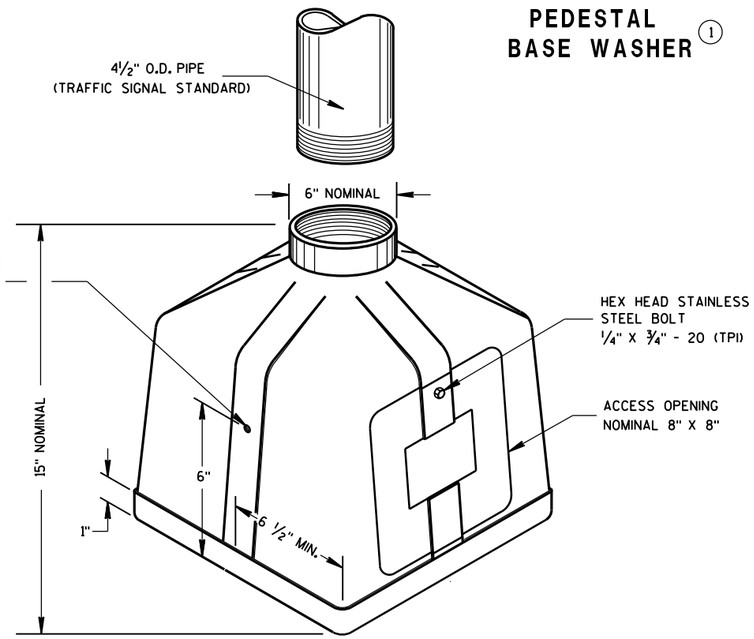


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

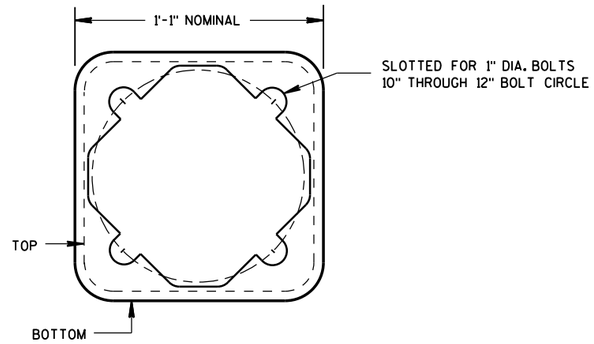


ISOMETRIC VIEW

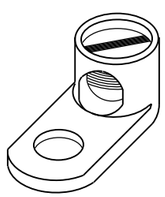


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

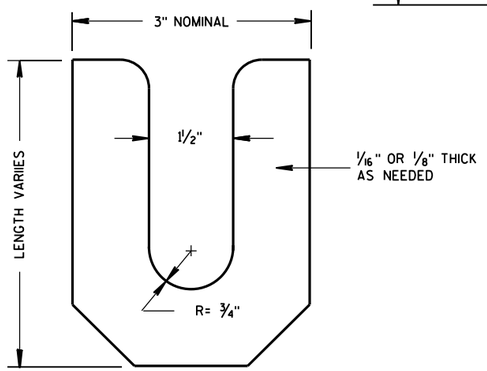


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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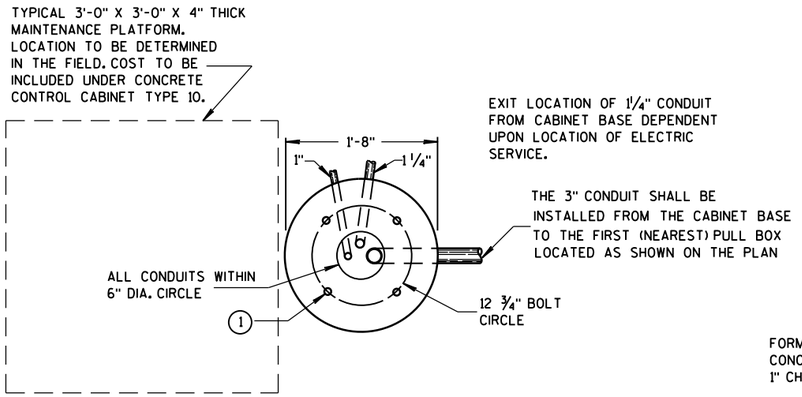
S.D.D. 9 C 3-4

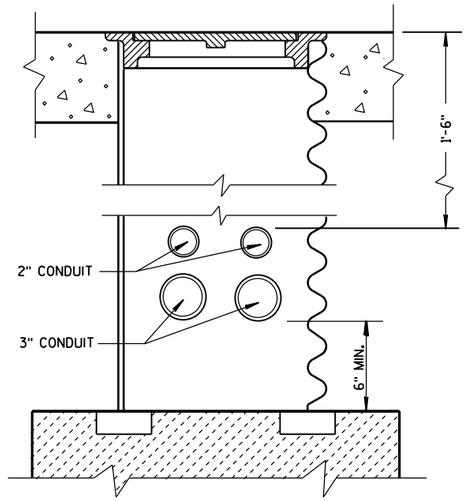
6

S.D.D. 9 C 3-4

CONTROL CABINET BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	H	I	J	K	
TYPE 6 - 30" CABINET	34"	60"	10"	17"	.64
TYPE 7 - 38" CABINET	42"	60"	10"	21"	.93
TYPE 8 - 38" CABINET	42"	72"	12"	21"	1.29
TYPE 9 - VARIABLE	54"	72"	14"	27"	1.56
TYPE 10 - POST MOUNT	AS SHOWN				.65 *

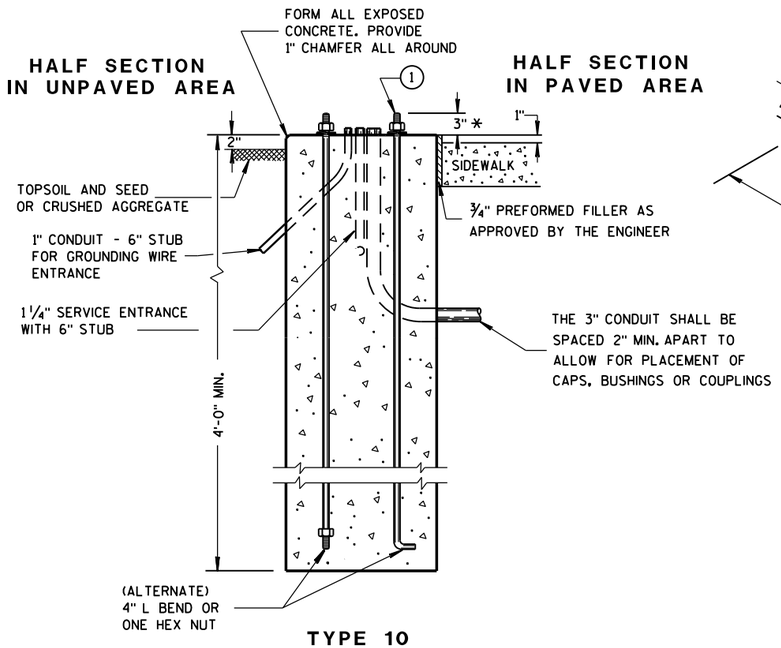
* INCLUDES MAINTENANCE PLATFORM.



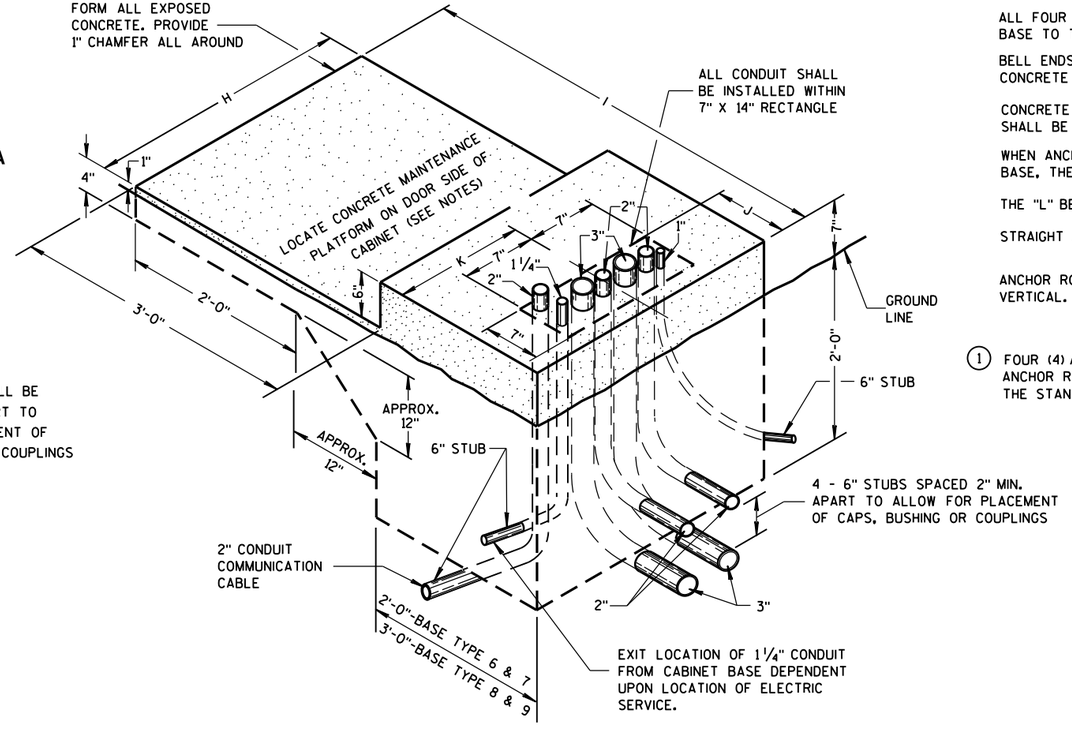


CONDUIT LOCATIONS IN 24" X 36" PULL BOX

(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)



TYPE 10



TYPE 6,7,8 AND 9
(ISOMETRIC VIEW)

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

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 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 SURFACES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SQUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND 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.

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.

ALL FOUR (TWO INCH AND THREE INCH) CONDUIT SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

(1) FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6". ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

CONCRETE CONTROL CABINET BASES

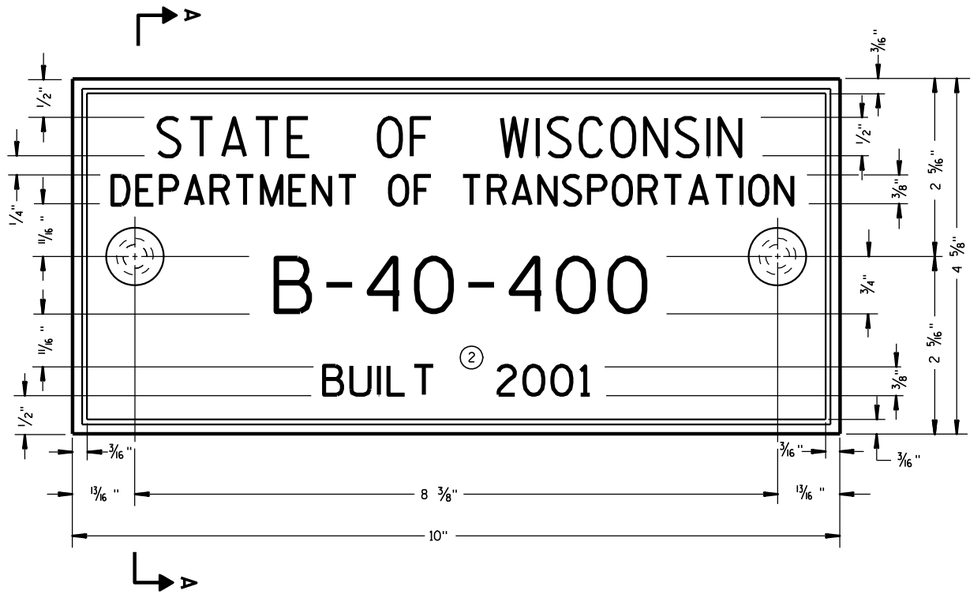
CONCRETE CONTROL CABINET BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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S.D.D. 9 C 5-9



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

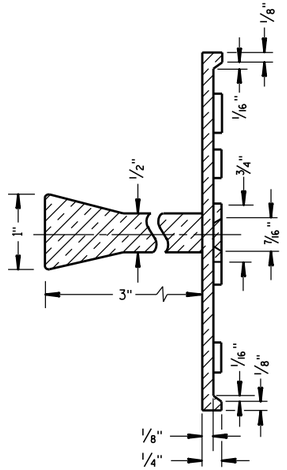
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

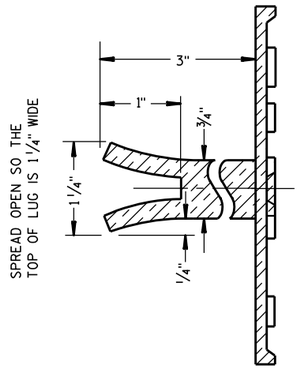
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

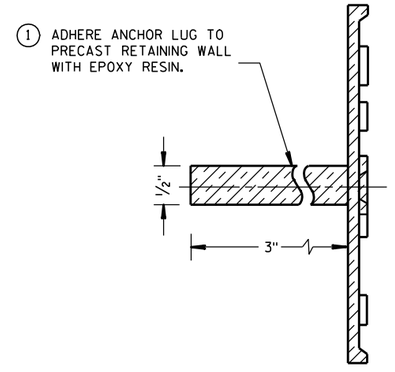
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE

/S/ Scot Beck -- CHIEF STRUCTURAL DEVELOP ENGINEER

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S.D.D. 12 A 3-10

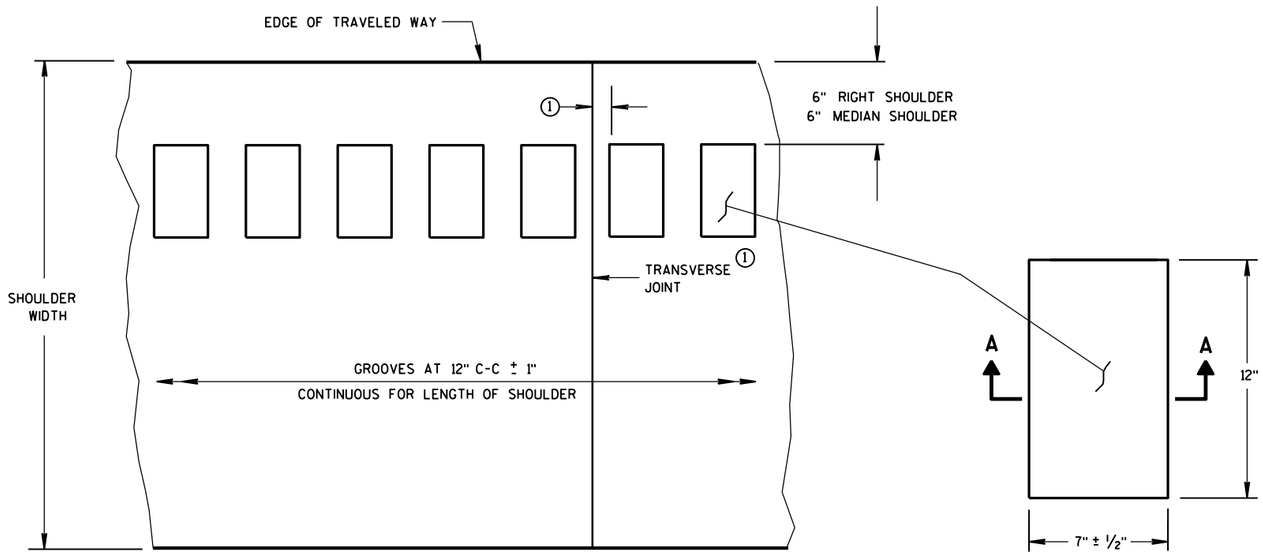
GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

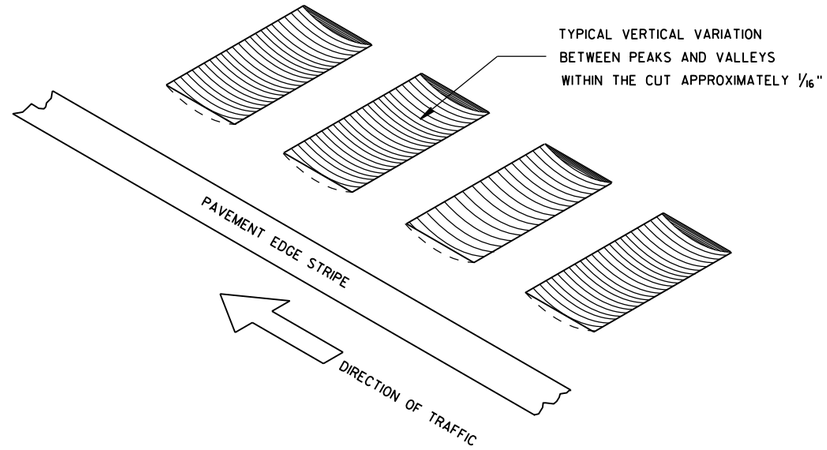
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



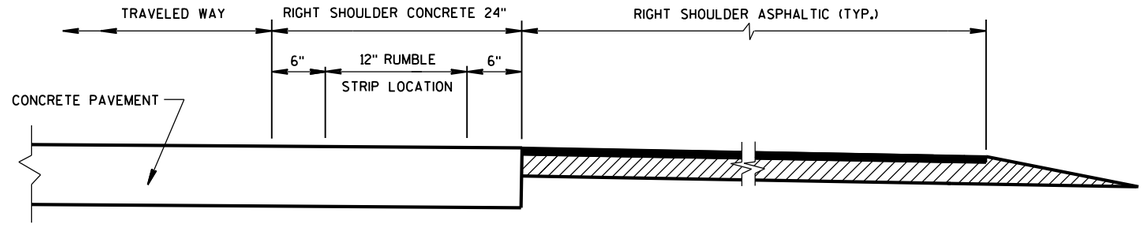
PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

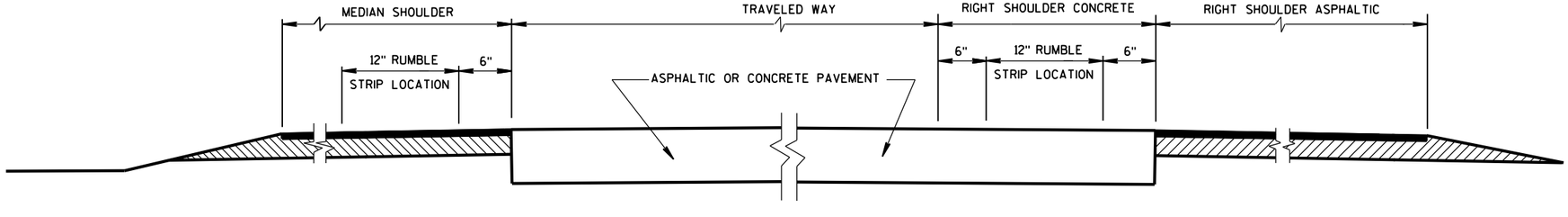
PLACEMENT DETAIL FOR MILLED RUMBLE STRIP



ISOMETRIC

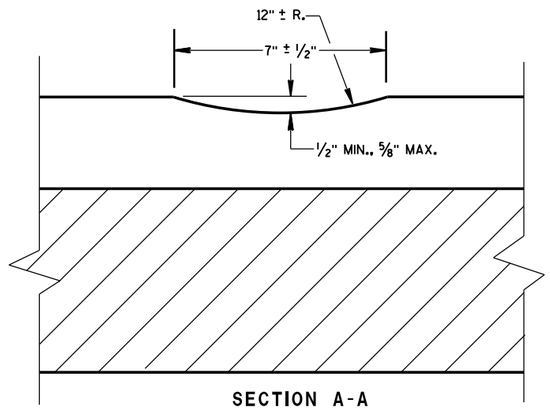


SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS
IN RURAL DIVIDED HIGHWAYS
(ONE ROADWAY IS SHOWN)



SECTION A-A

SHOULDER RUMBLE STRIP, MILLING

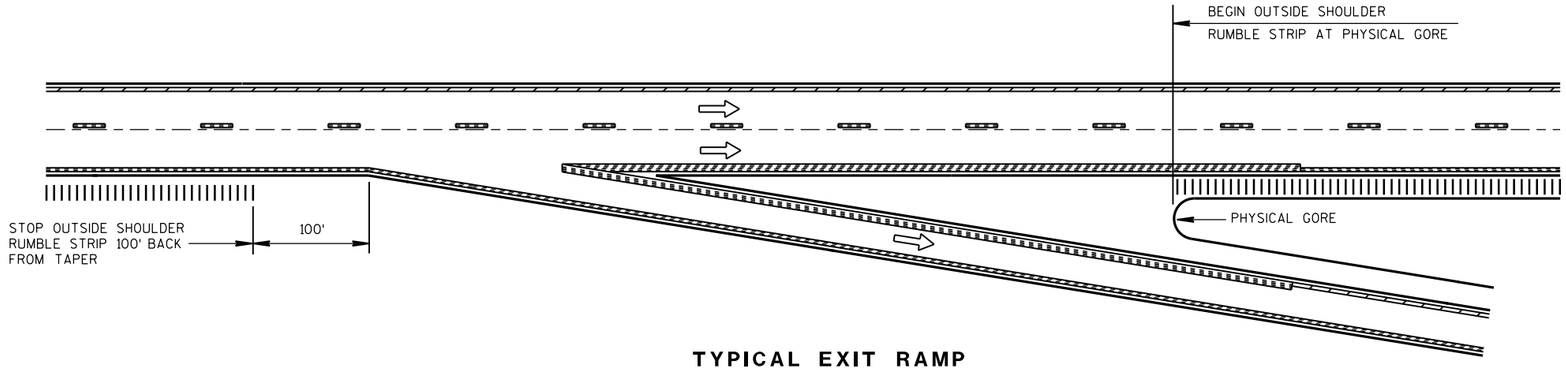
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 13 A 5-5a

6

S.D.D. 13 A 5-5a



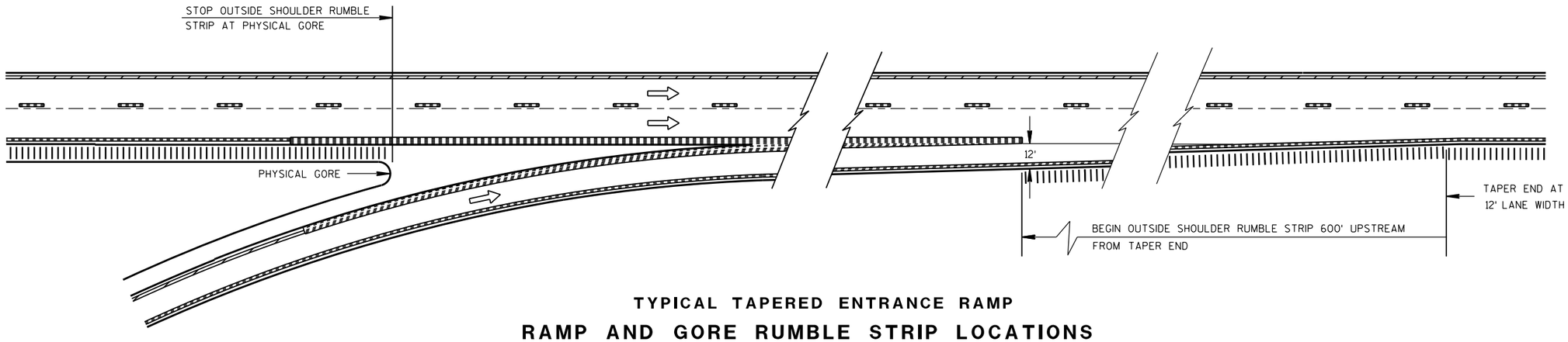
TYPICAL EXIT RAMP

NOTES:

NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

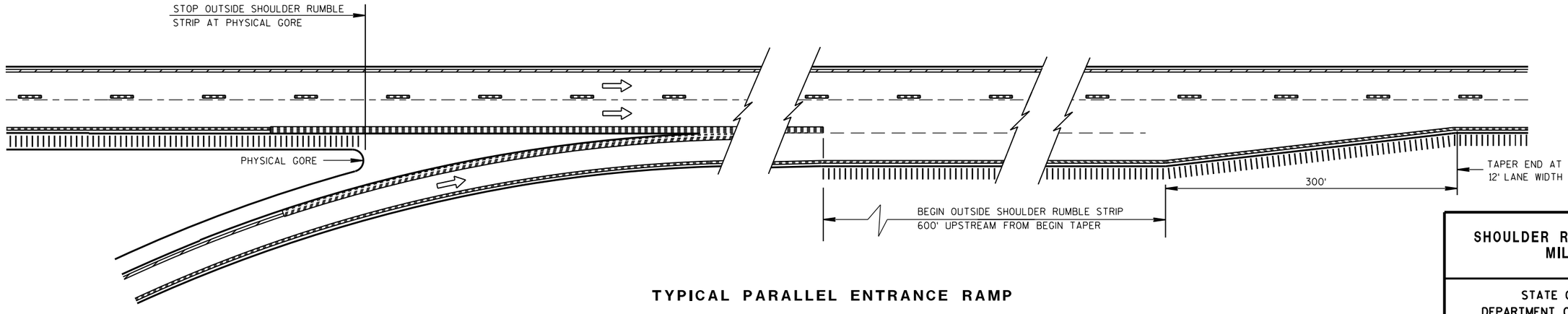
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/2012
DATE

/S/ Jerry H. Zoga
ROADWAY STANDARDS ENGINEER

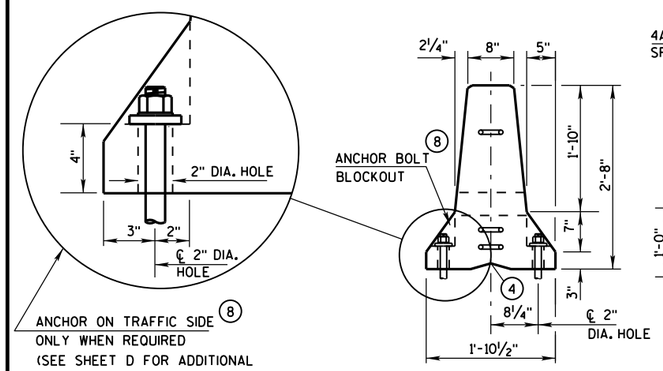
FHWA

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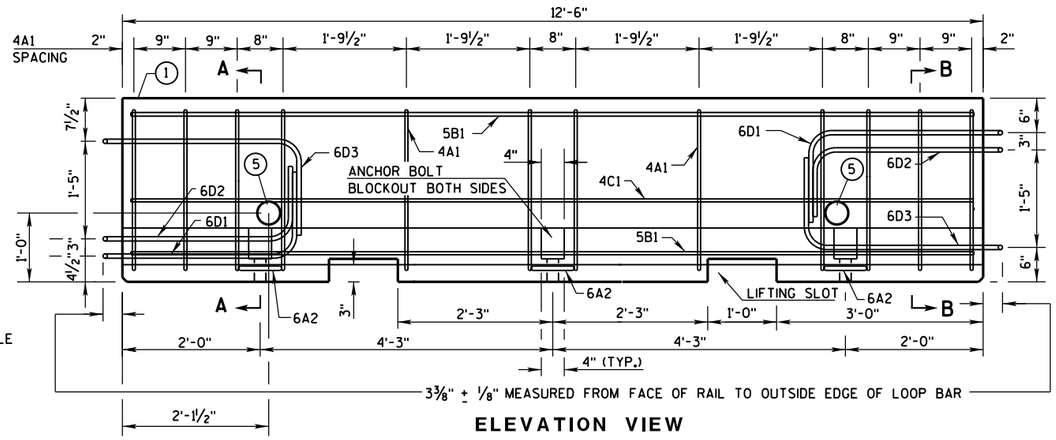
S.D.D. 13 A 5-5b

6

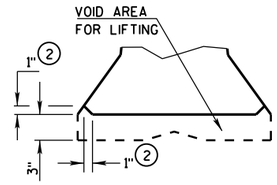
S.D.D. 13 A 5-5b



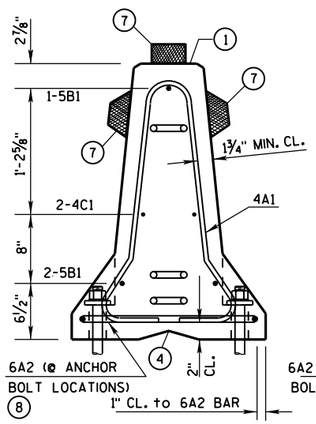
END VIEW



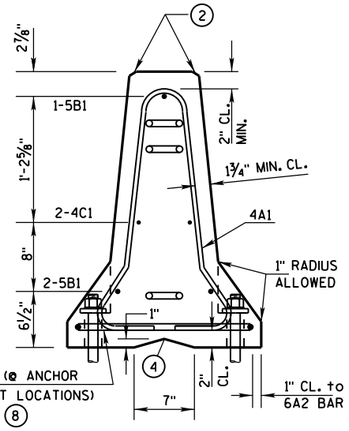
ELEVATION VIEW



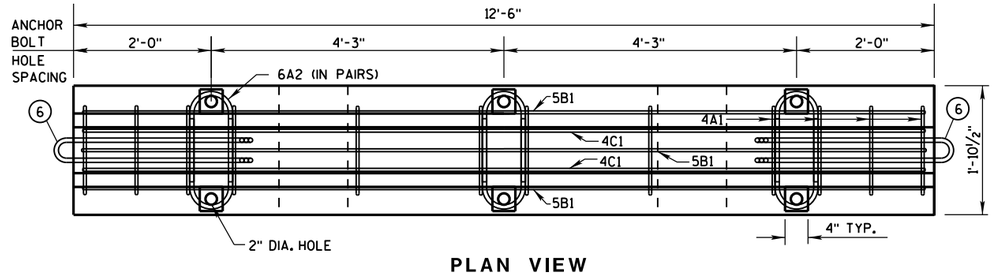
DETAIL "B"
LIFTING SLOT DETAIL



SECTION A-A
(STIRRUP PLACEMENT)

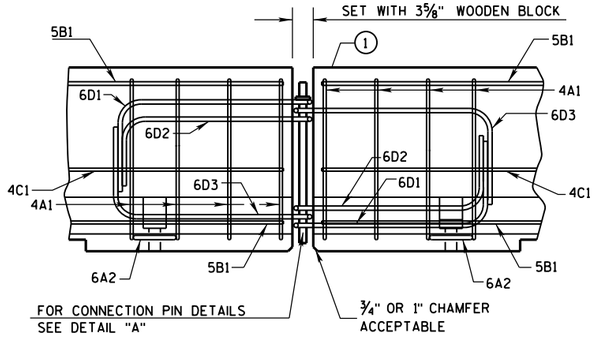


SECTION B-B
(STIRRUP PLACEMENT)

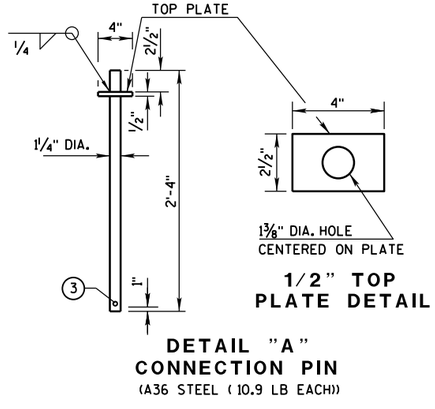


PLAN VIEW

DETAILS OF BARRIER SECTION

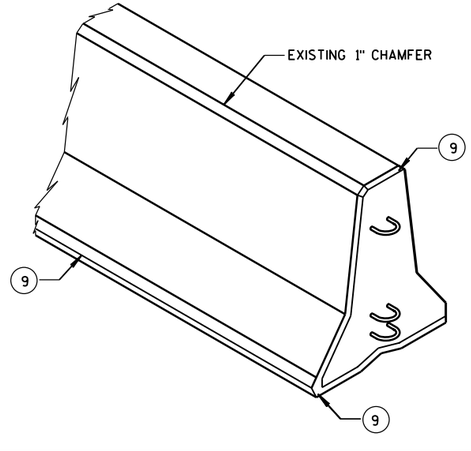


DETAILS OF BARRIER CONNECTION



1/2" TOP
PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-14(a) THRU 14B7-14(h).

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 ANCHORING CRITERIA.

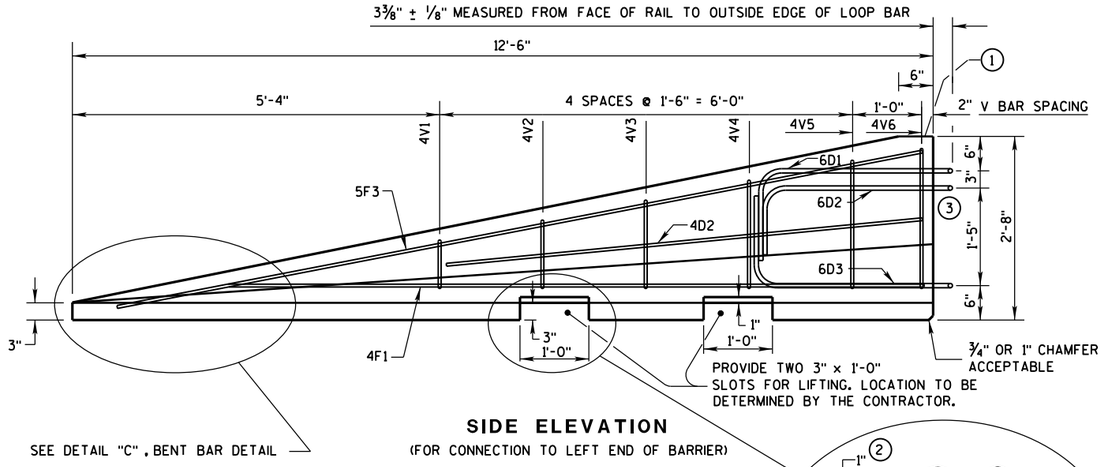
(9) 1" CHAMFER OPTIONAL.

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

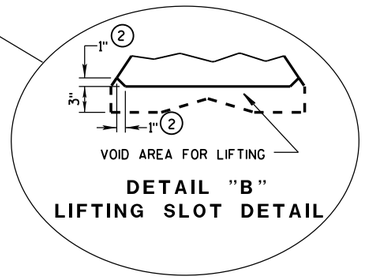
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

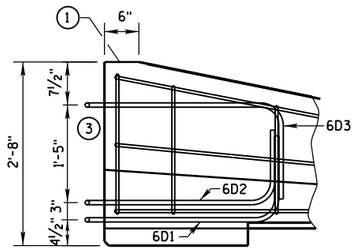
S.D.D. 14 B 7-14a



SIDE ELEVATION
(FOR CONNECTION TO LEFT END OF BARRIER)



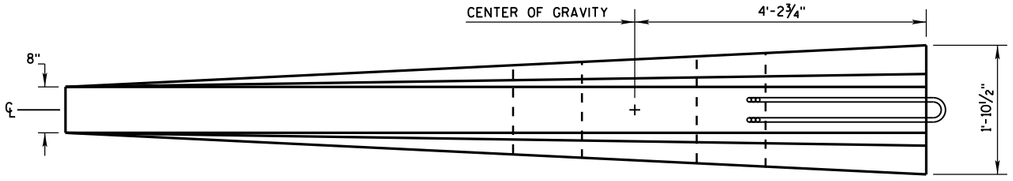
DETAIL "B"
LIFTING SLOT DETAIL



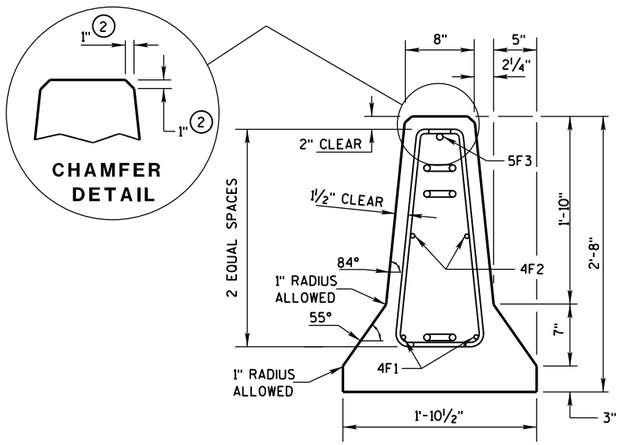
SIDE ELEVATION
LOOP BAR ASSEMBLY INVERTED
FOR OPPOSITE END.
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

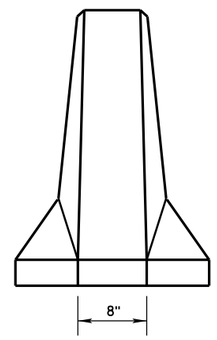
1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.



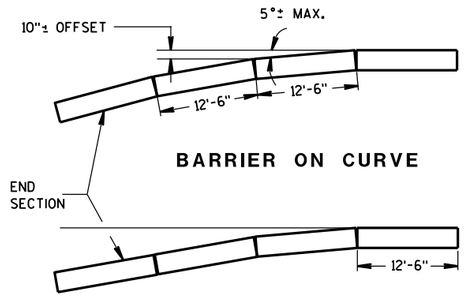
PLAN VIEW



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 TRANSPOI

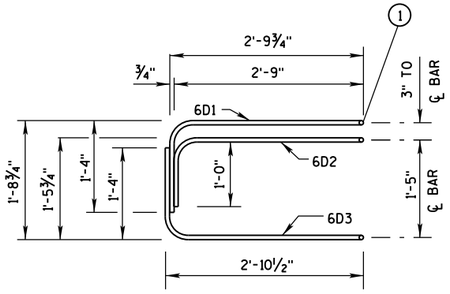
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S.D.D. 14 B 7-14b

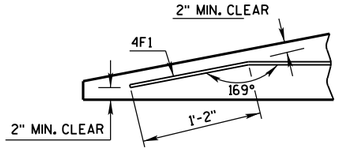
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

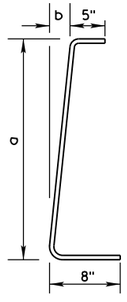
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



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

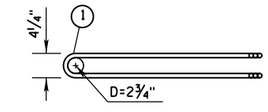
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

BARRIER SECTION BILL OF MATERIALS

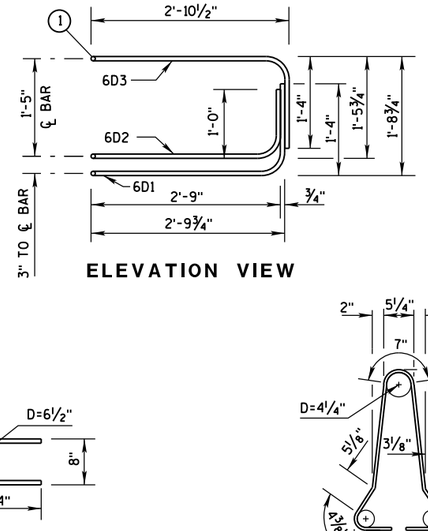
(PER 12'-6" BARRIER SECTION)

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"

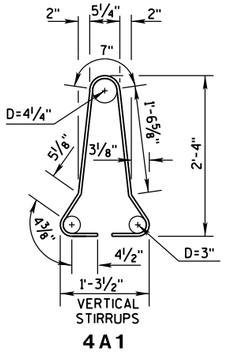


PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)

6A2



ELEVATION VIEW



4A1

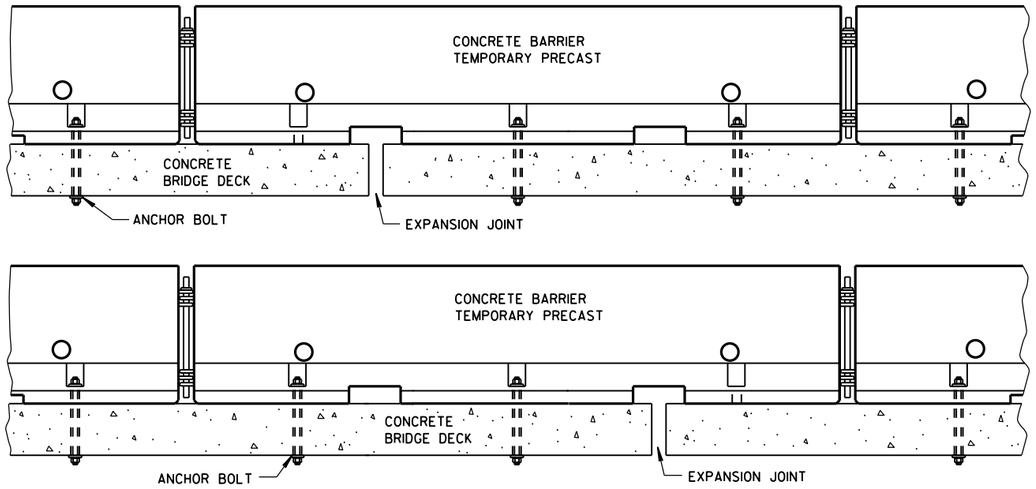
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

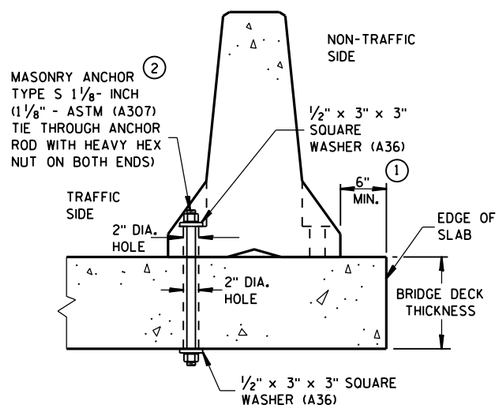
6

S.D.D. 14 B 7-14c



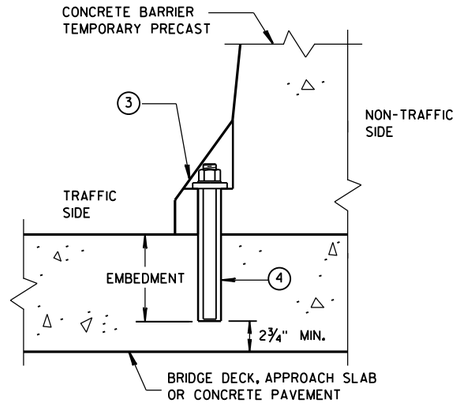
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(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.)



THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)



REMOVABLE ADHESIVE BONDED ANCHOR ② INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

① CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF:
THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

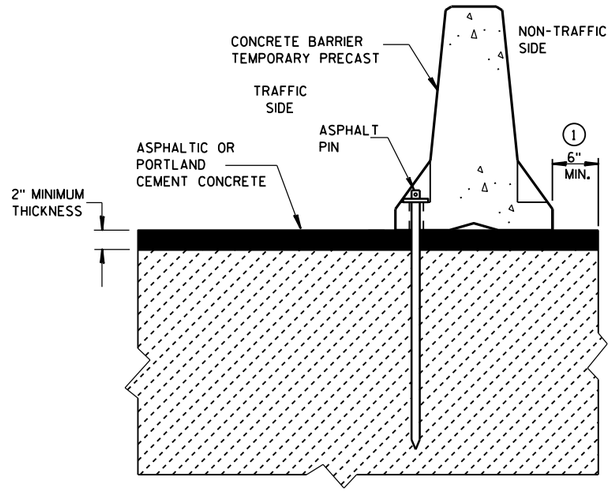
② ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1⅛-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALL ANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CONCRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.

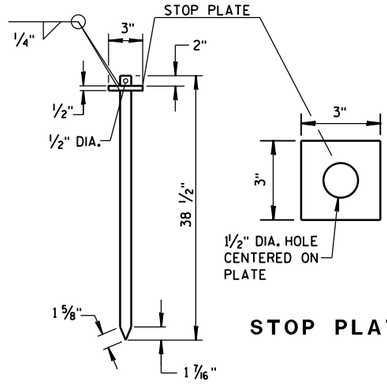
③ 1⅛" DIAMENTER A307 THREADED ROD, ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.

④ 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.



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

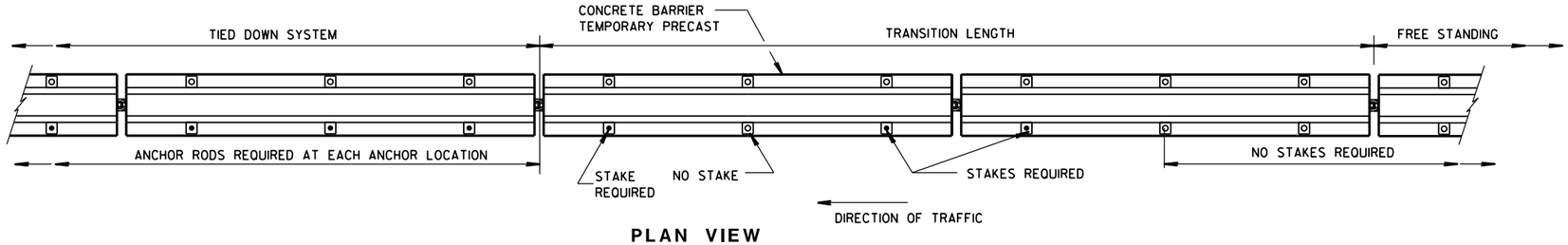
(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



STOP PLATE

ASPHALT PIN

(ASTM A36 STEEL)



PLAN VIEW

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

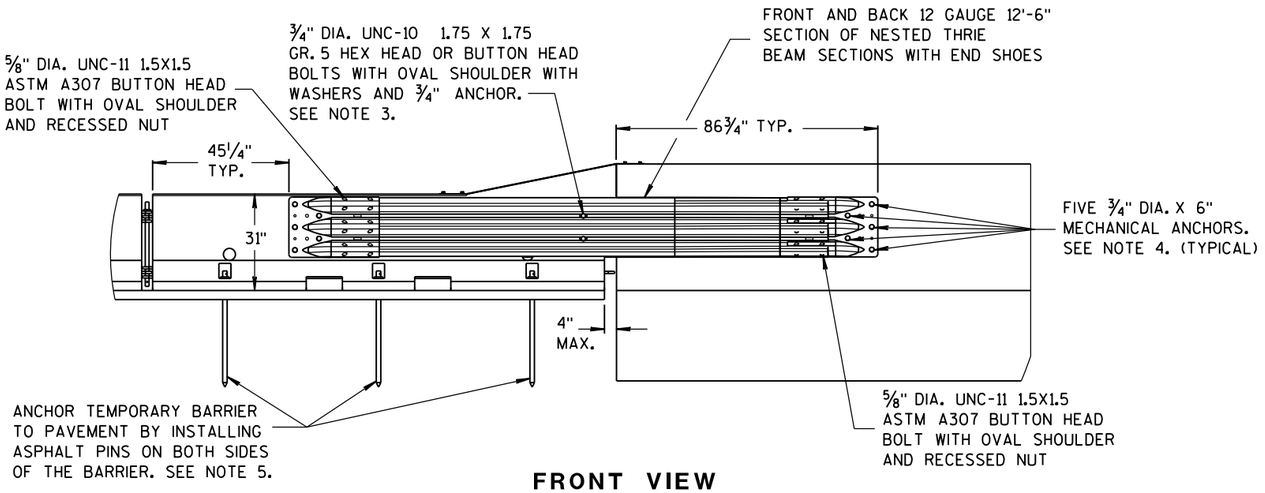
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

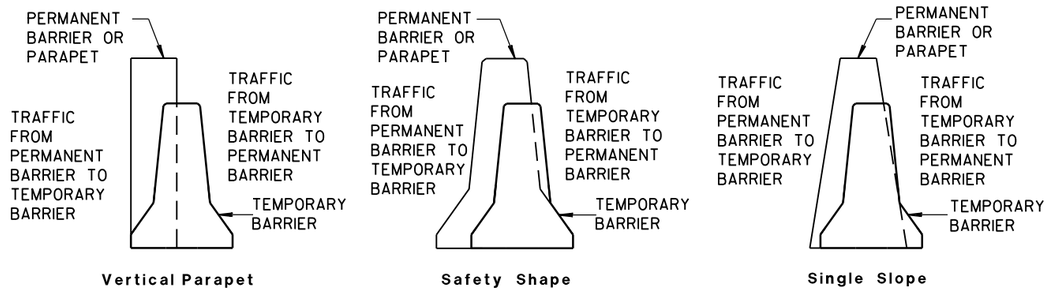
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 7-14d



FRONT VIEW

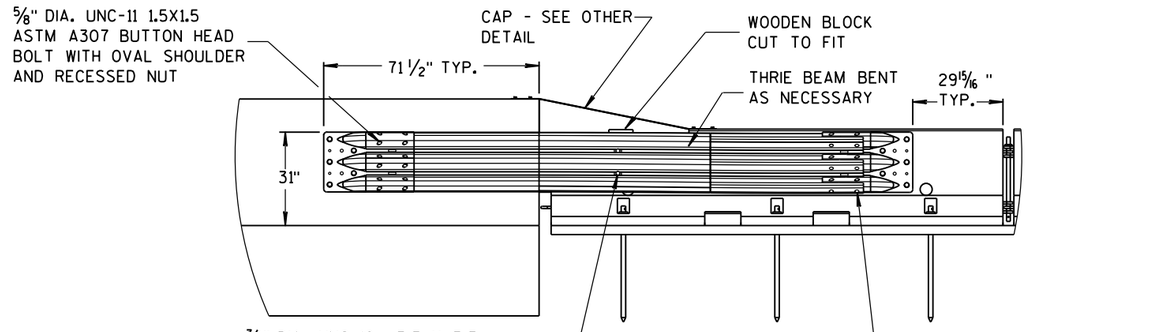


TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

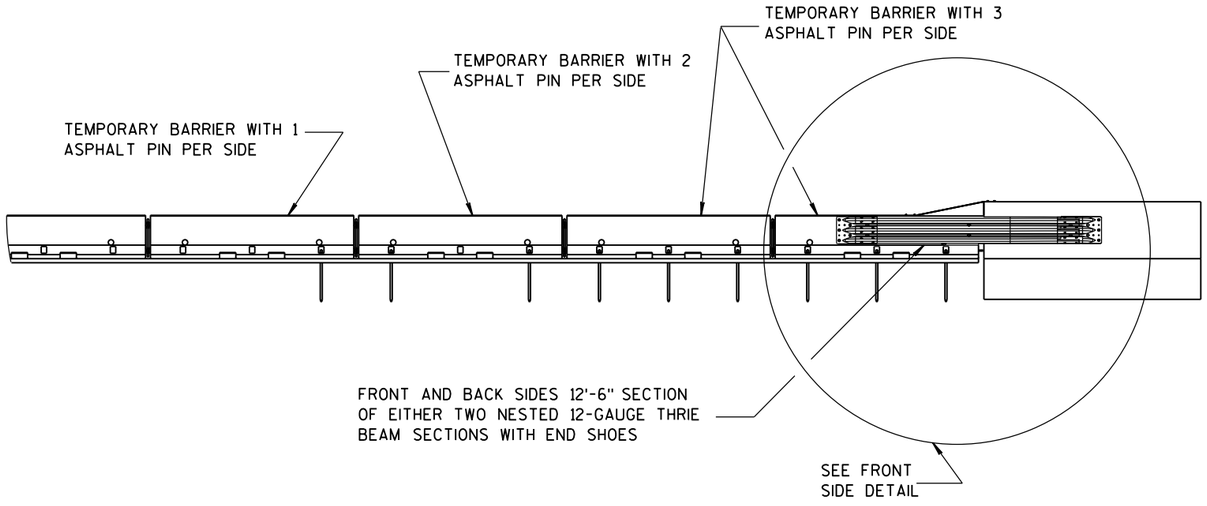
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS.

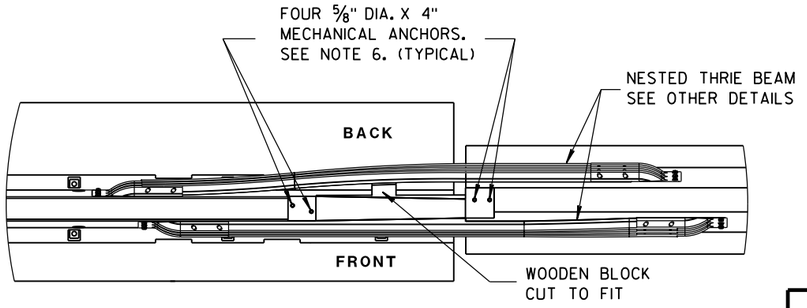
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



BACK VIEW



FRONT VIEW



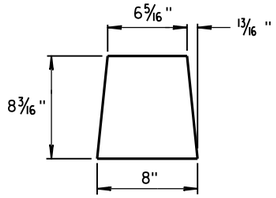
PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

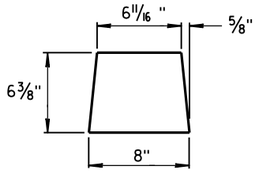
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

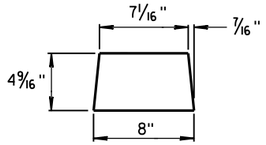
6
S.D.D. 14 B 7-14e



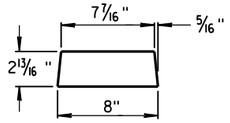
GUSSET 1



GUSSET 2

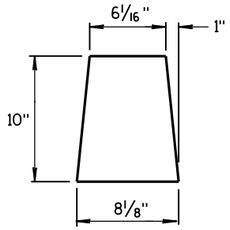


GUSSET 3

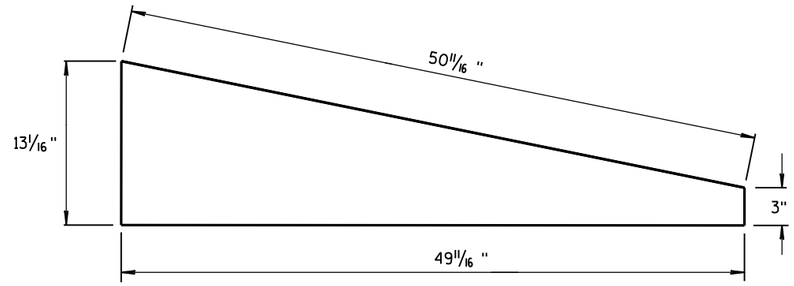


GUSSET 4

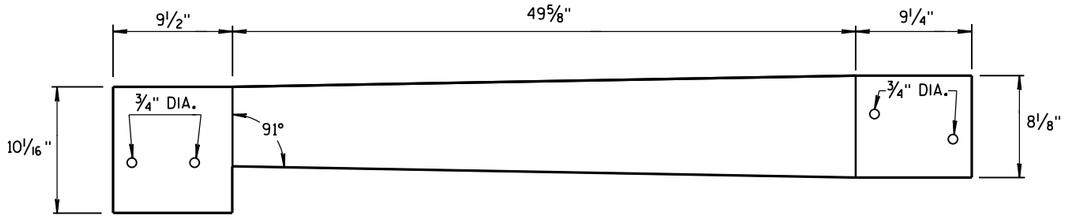
GUSSETS

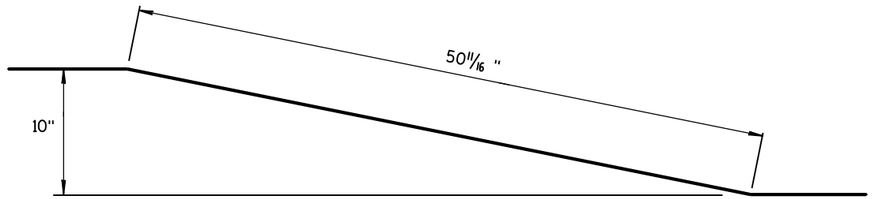


END PLATE



SIDE PLATE

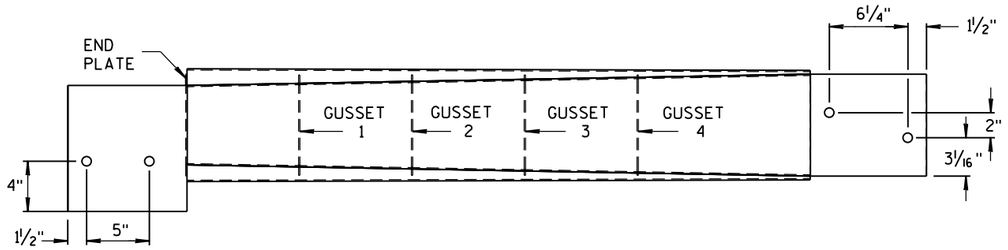


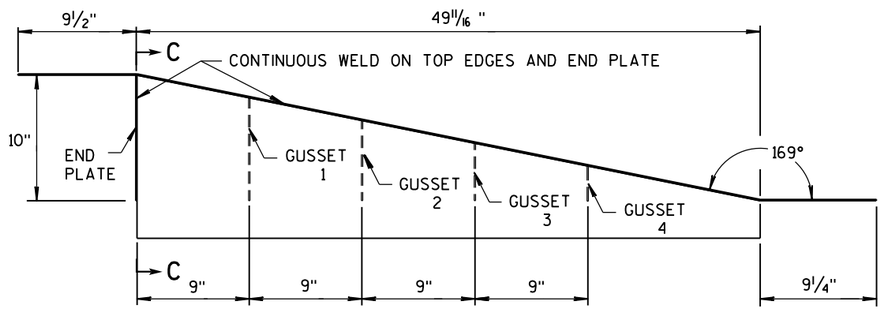


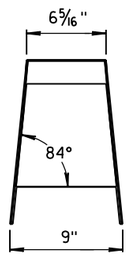
TOP PLATE

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.







SECTION C-C

NOTES

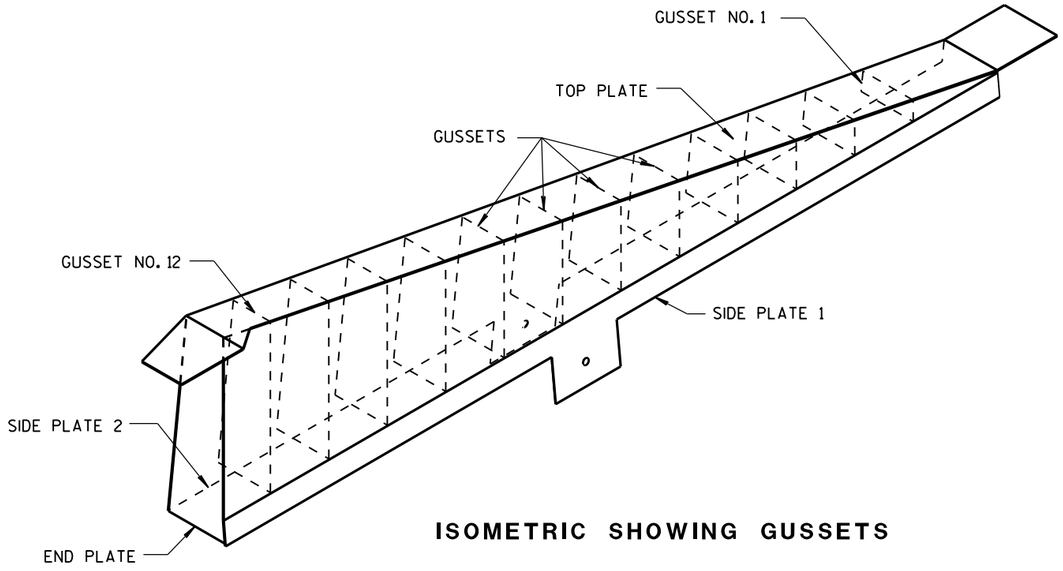
1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

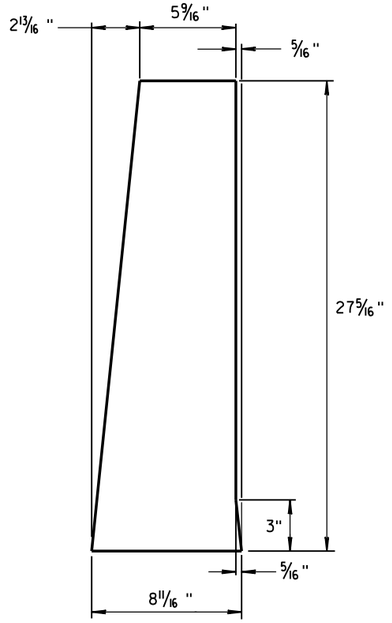
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-14f

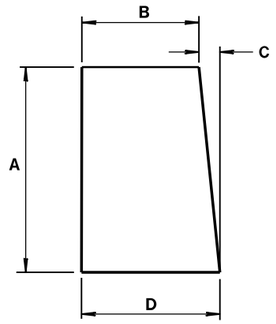


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



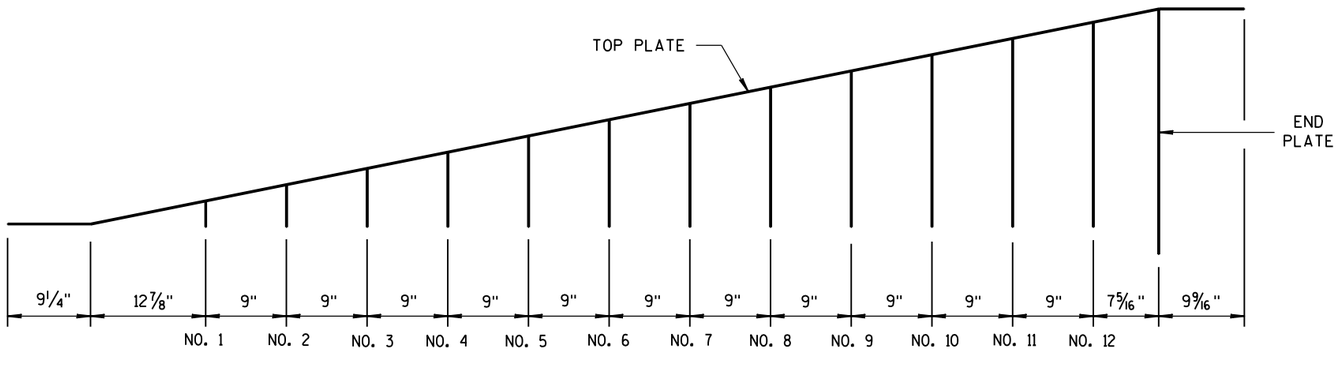
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

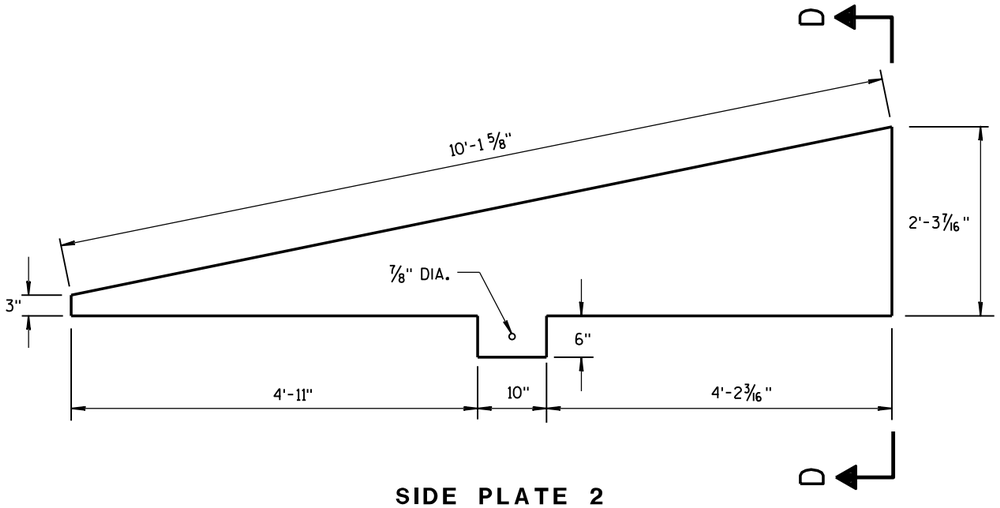
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

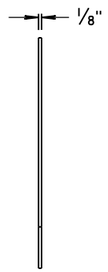
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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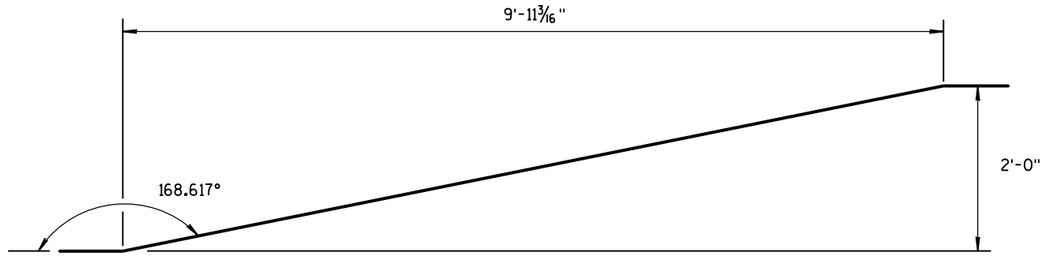
S.D.D. 14 B 7-14g



SIDE PLATE 2

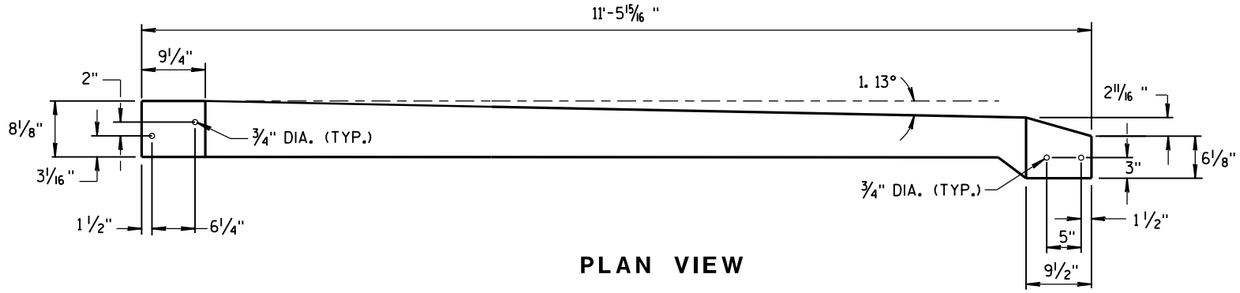


END VIEW



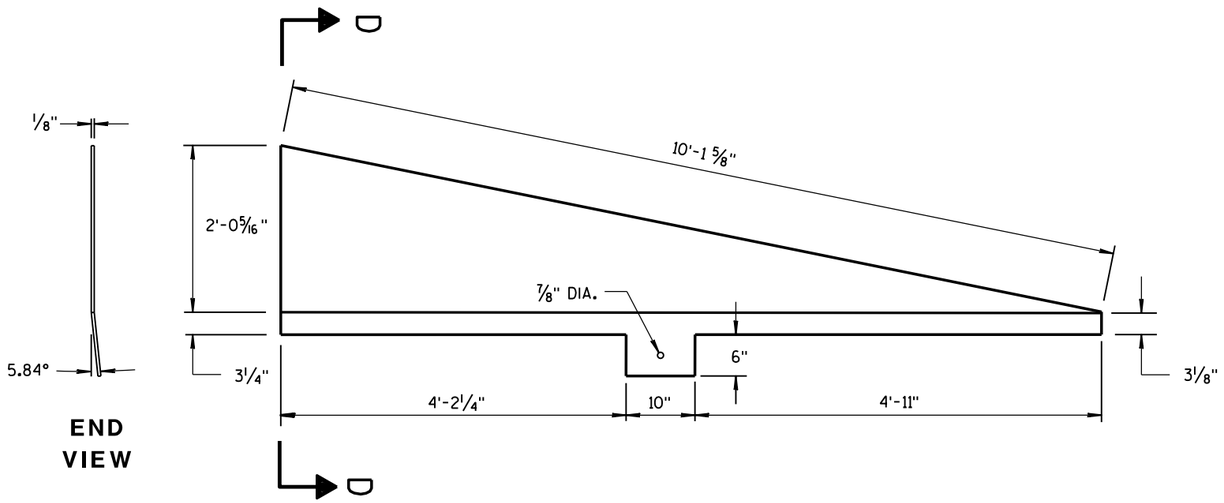
SIDE VIEW

TOP PLATE



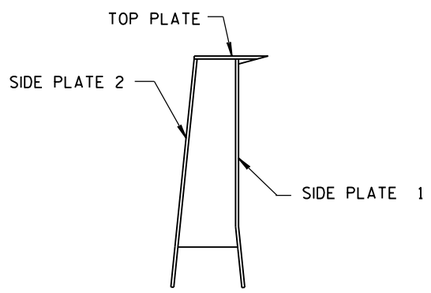
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

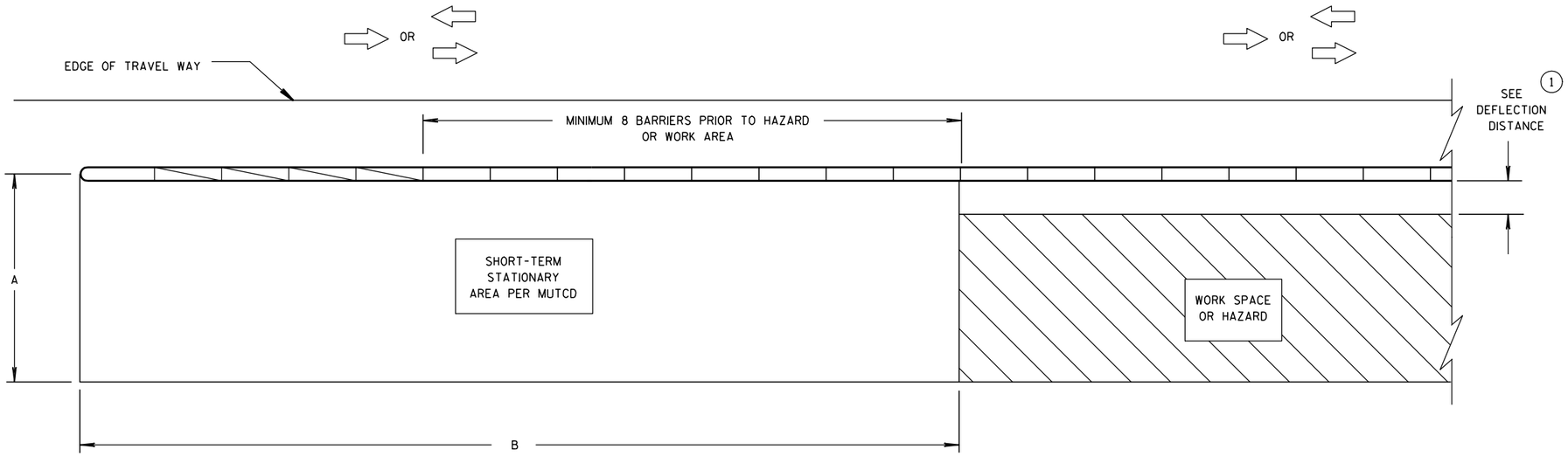
APPROVED
June 2014 — DATE
/S/ Jerry H. Zoaa — ROADWAY STANDARD D ENGINEER
FHWA

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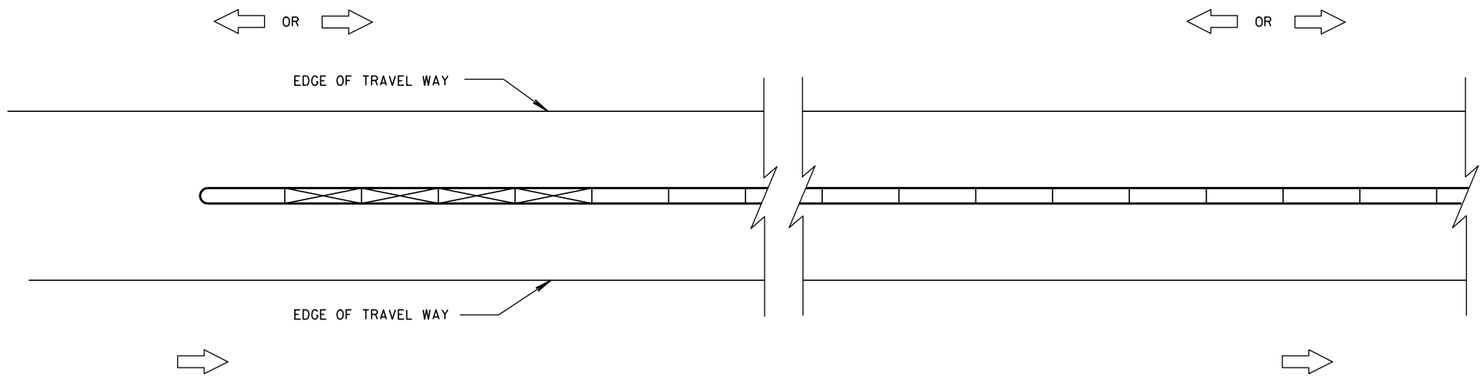
S.D.D. 14 B 7-14h

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S.D.D. 14 B 7-14h



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES 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

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.

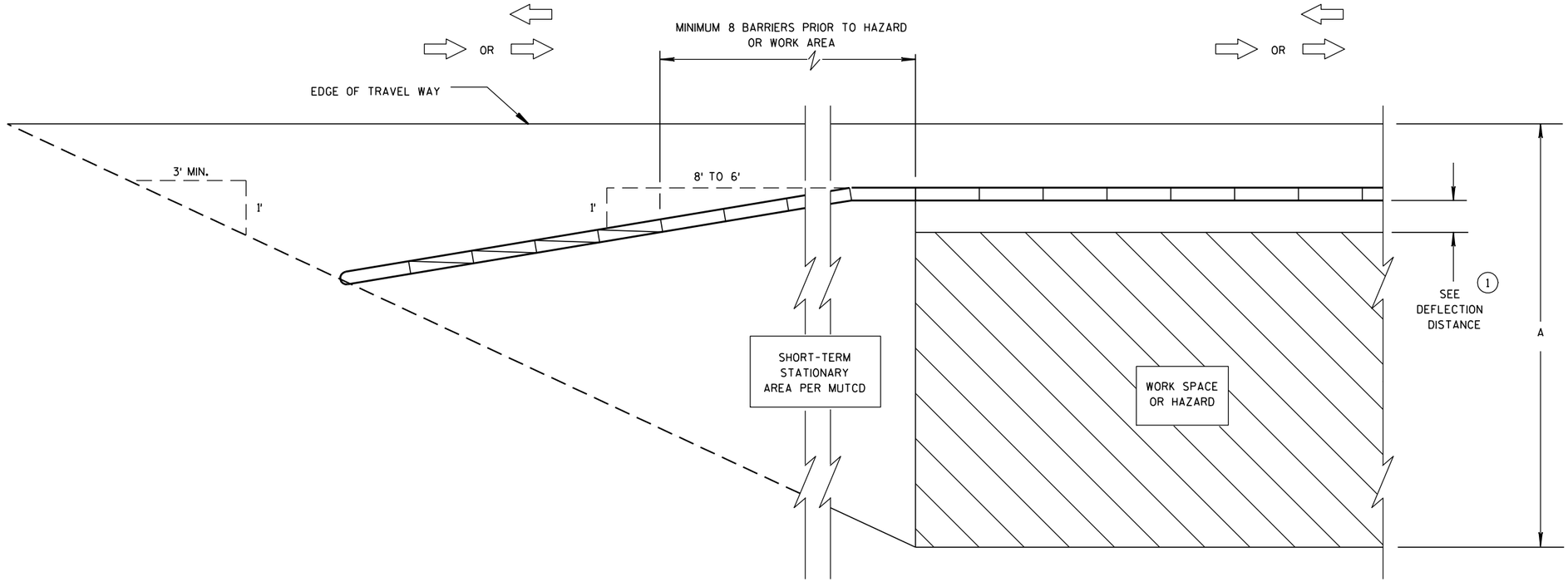
(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

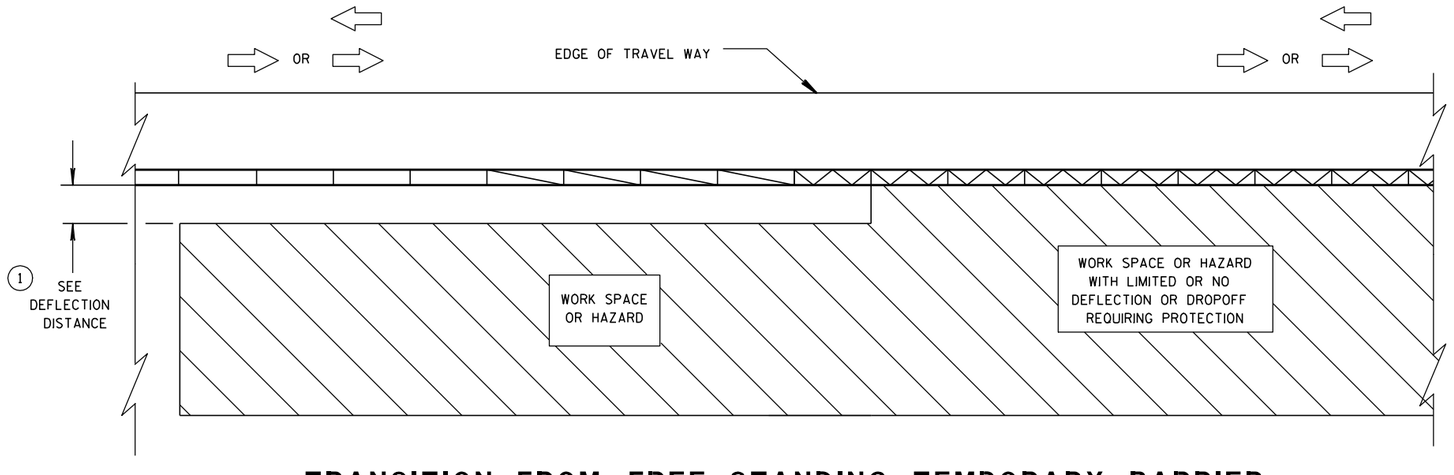
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 14 B 8-1a



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

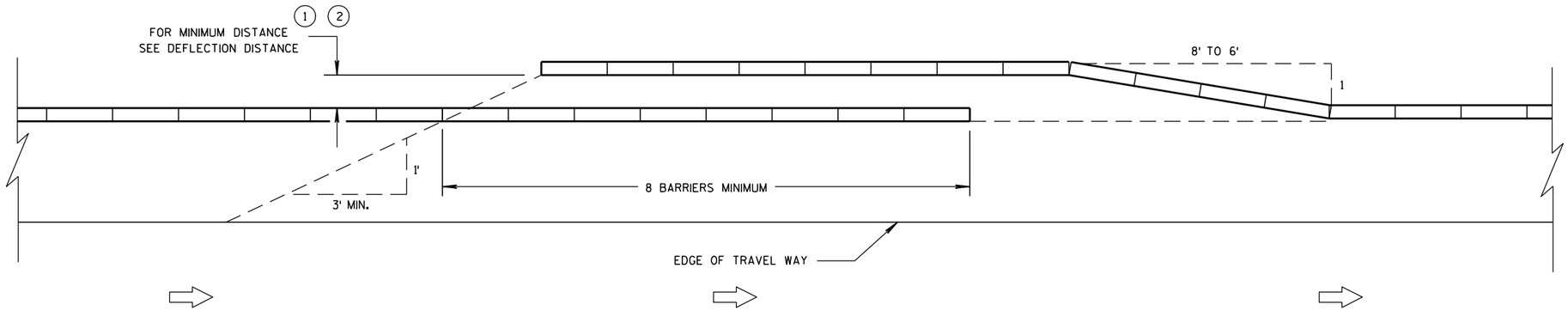
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

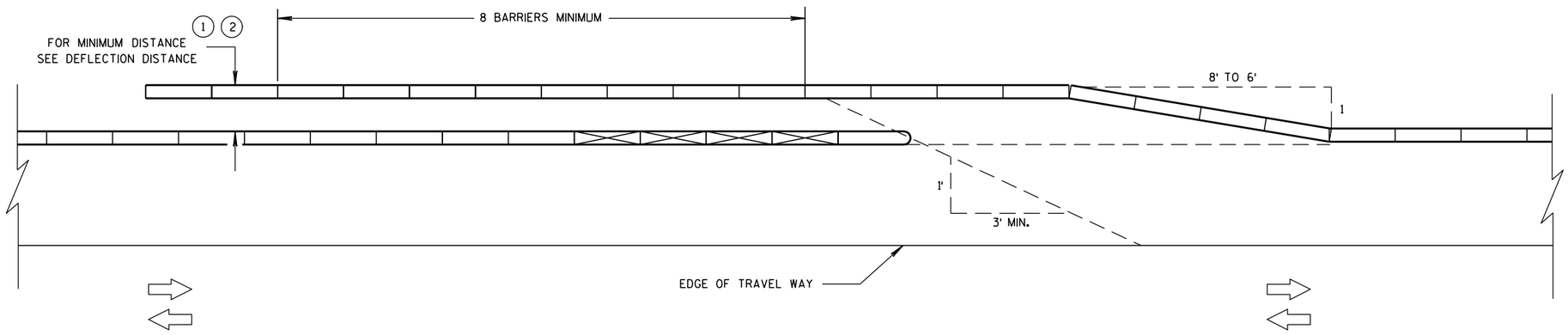
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

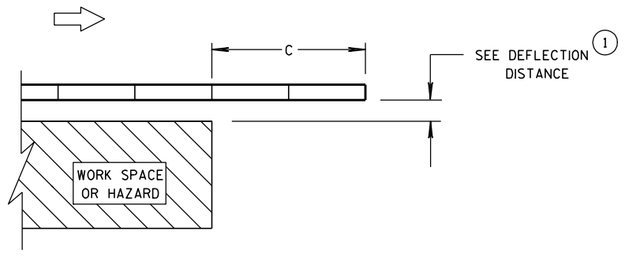
S.D.D. 14 B 8-1b



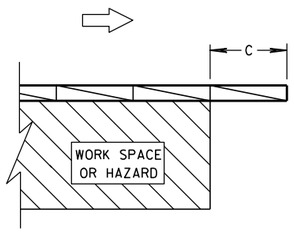
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

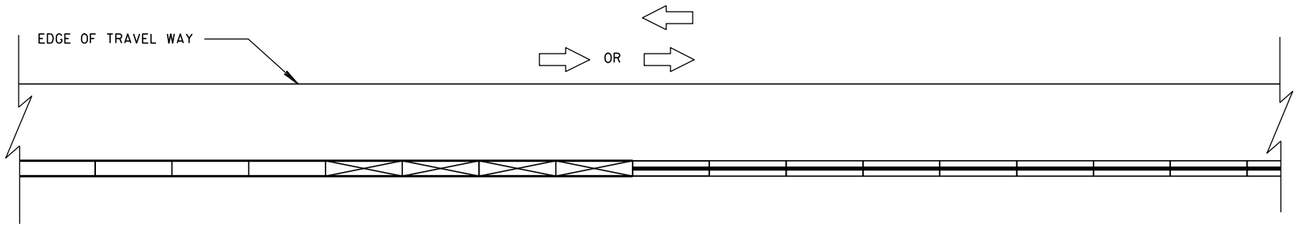
LEGEND

- 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

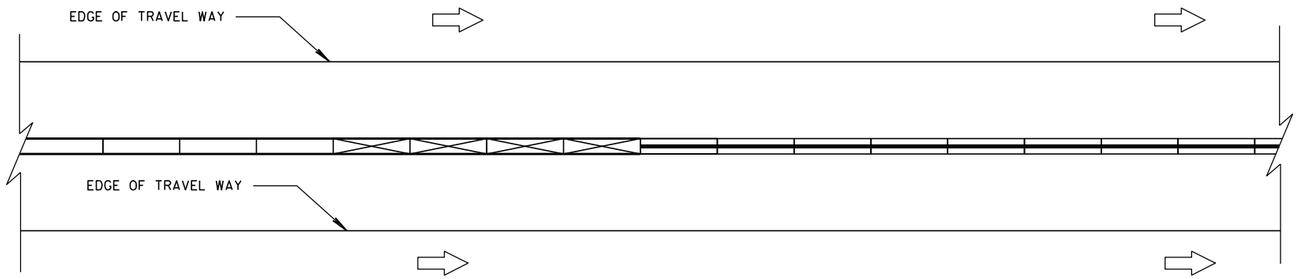
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 8-1c



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

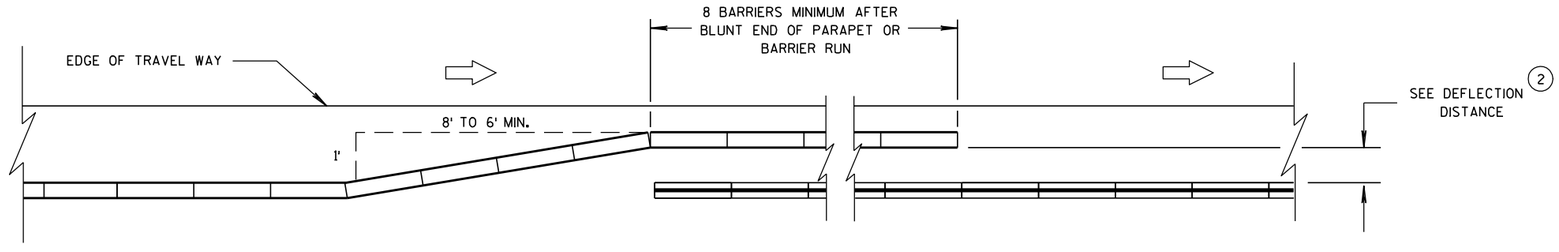
SEE FREE STANDING TRANSITION
TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION
TO TIED-DOWN SYSTEM DETAILS

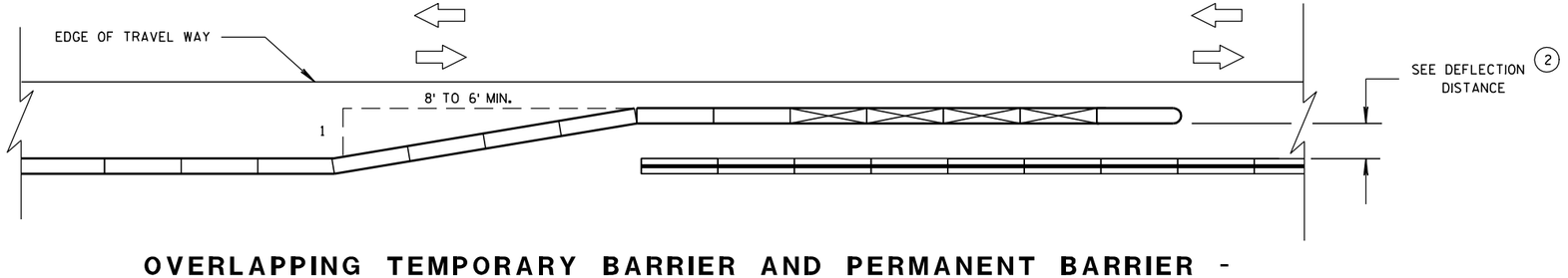
3 PINS PLACED ON
TRAFFIC SIDE OF BARRIER

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 TRANSPO...

6
S.D.D. 14 B 8-1d

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

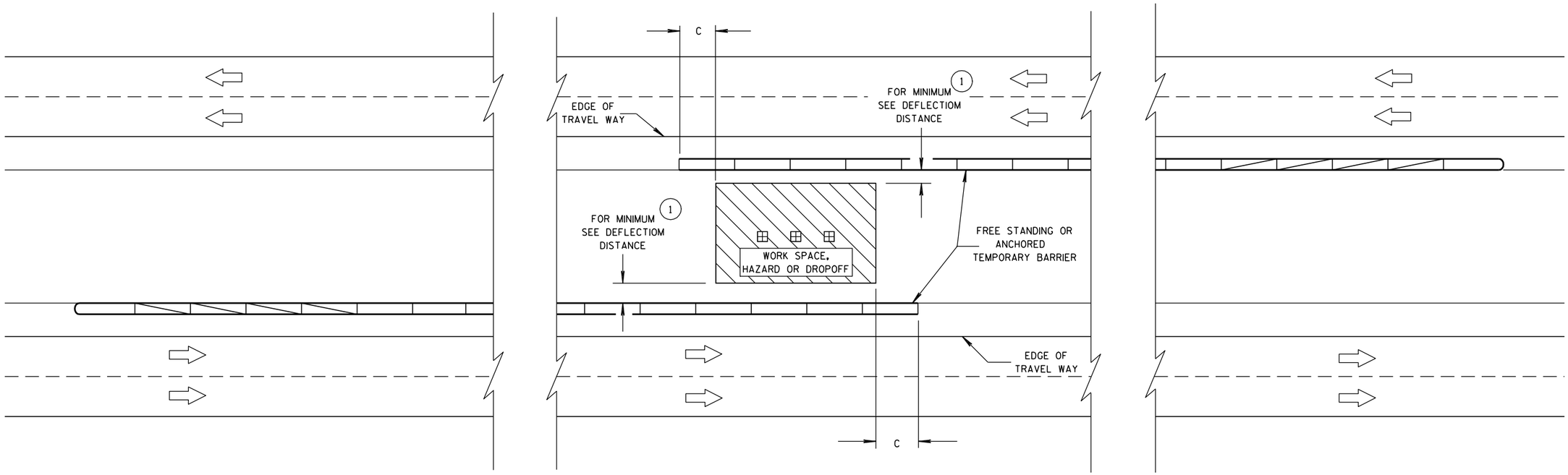
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

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

8/31/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINNER

FHWA

6

S.D.D. 14 B 8-1e

6

S.D.D. 14 B 8-1e

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) W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS.

DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION.

(2) USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.

(3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.

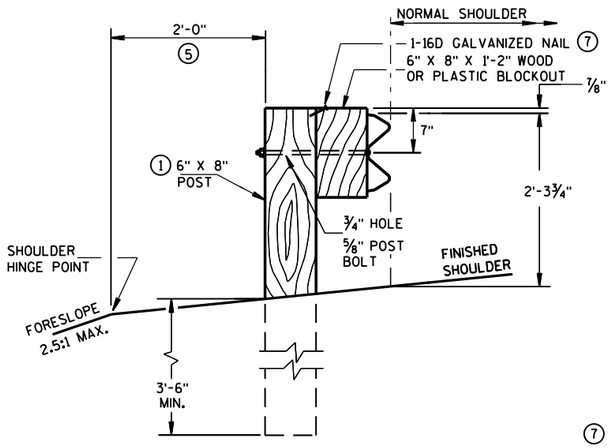
(5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).

(6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.

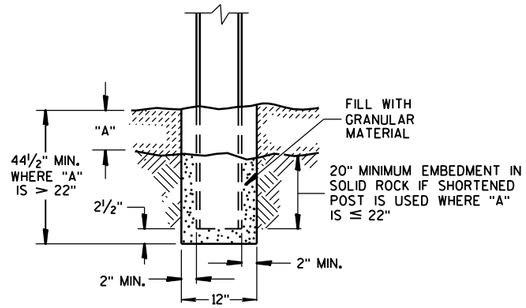
(7) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

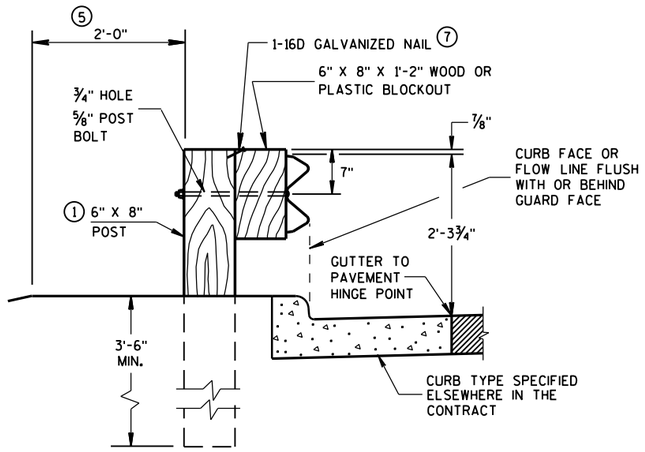
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



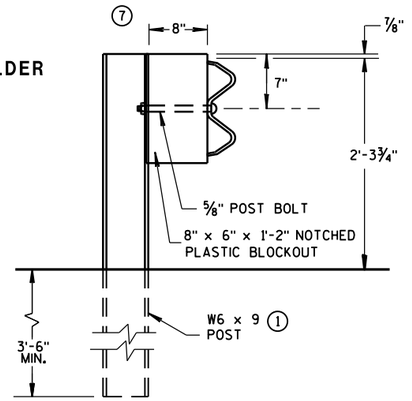
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



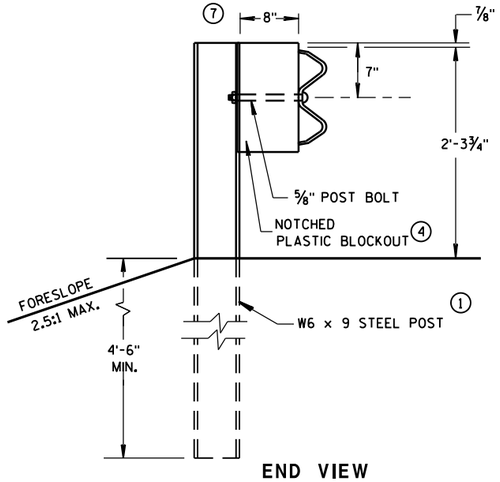
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)



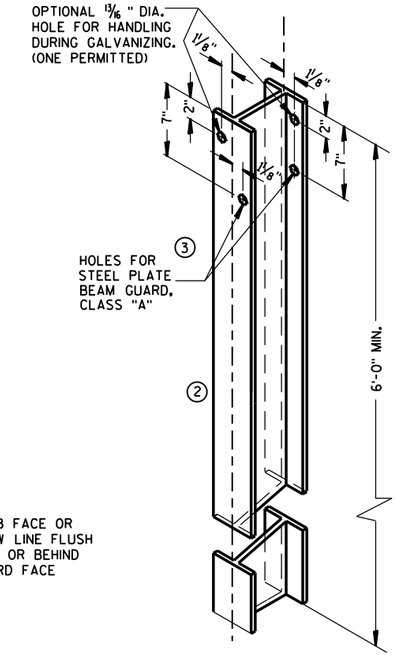
END VIEW
LOCATED ALONG A CURBED ROADWAY



END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION

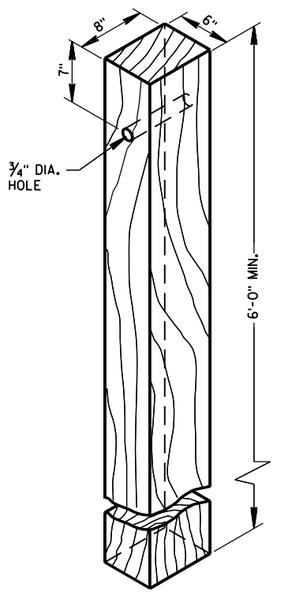


END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)

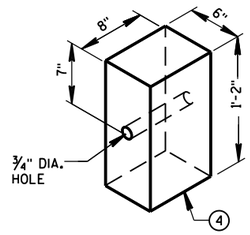


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

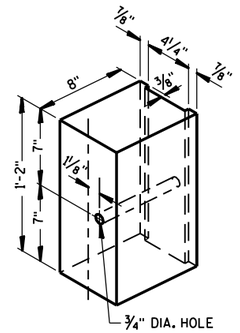
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



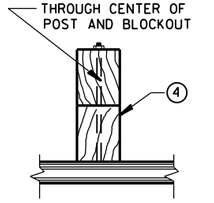
WOOD POST
(6"X8") NOMINAL



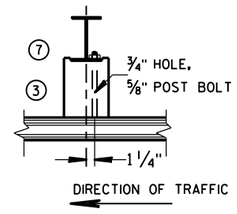
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



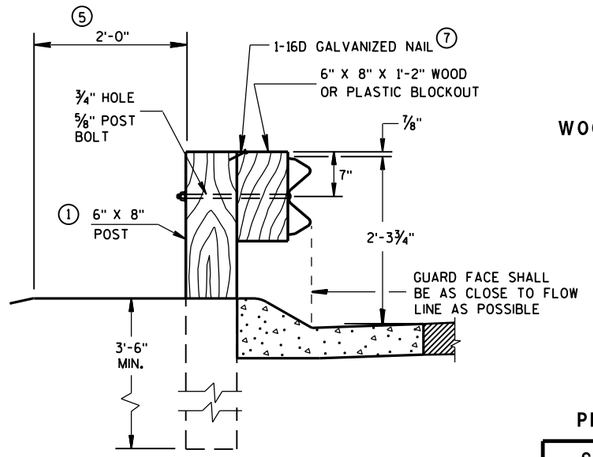
TYPICAL NOTCHED (1)
PLASTIC BLOCKOUT
FOR STEEL POSTS



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM



END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

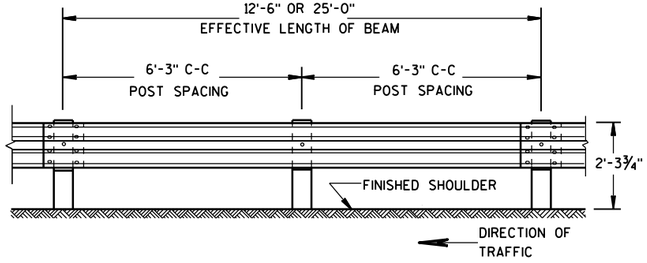
TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

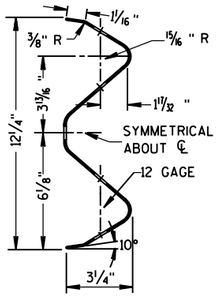
6

S.D.D. 14 B 15-8a

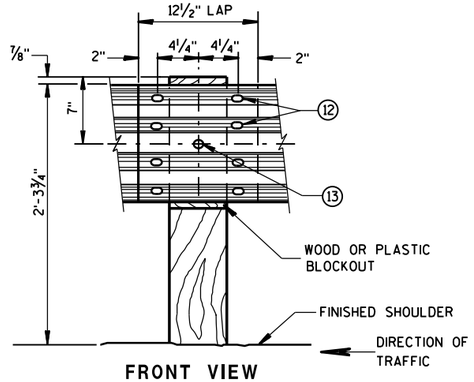


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM



FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

GENERAL NOTES

(8) PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

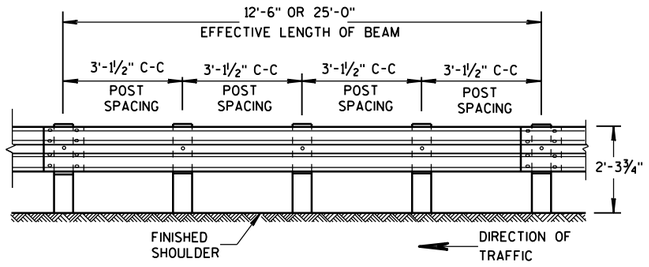
(9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

(10) REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

(11) PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

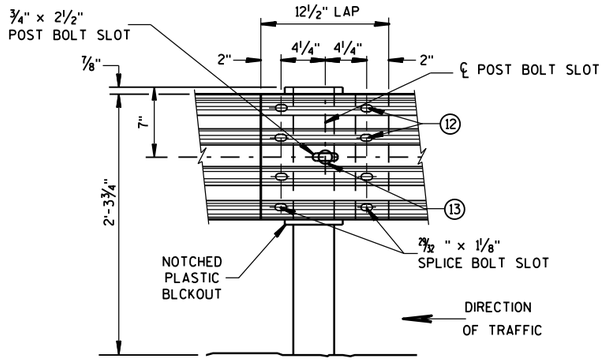
(12) 8 -⅝" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) ⅝" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH ⅝" DIA. F844 FLAT WASHER UNDER NUT.



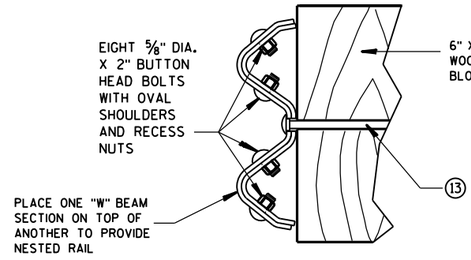
FRONT VIEW

POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST



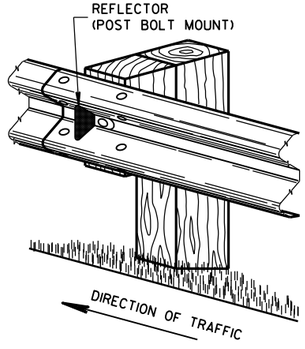
NESTED W BEAM (NW)

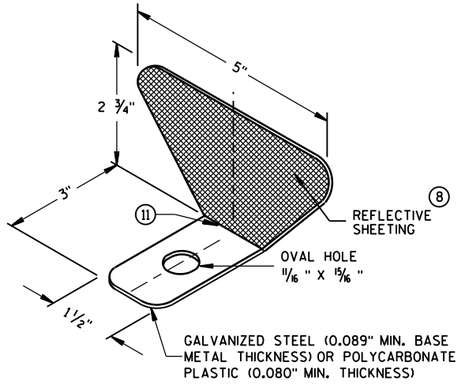
USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

REFLECTOR SPACING (9)

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 (10)	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2 (11)	3
	> 200'	100' C-C	2	



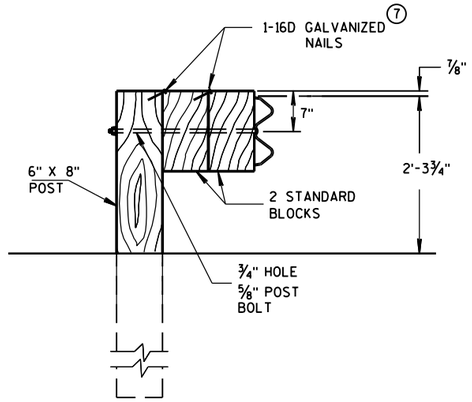


ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (8)

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

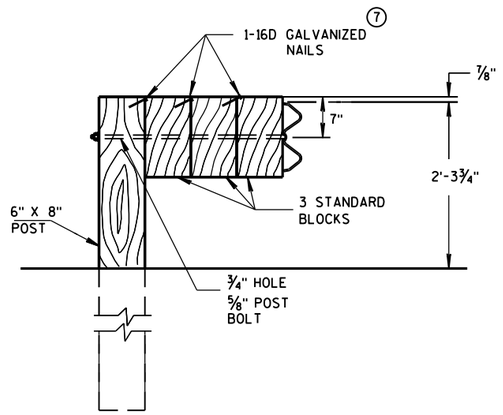
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 14 B 15-8b



DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

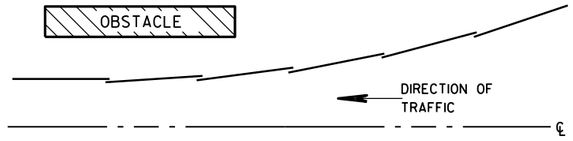


DETAIL FOR TRIPLE BLOCKS

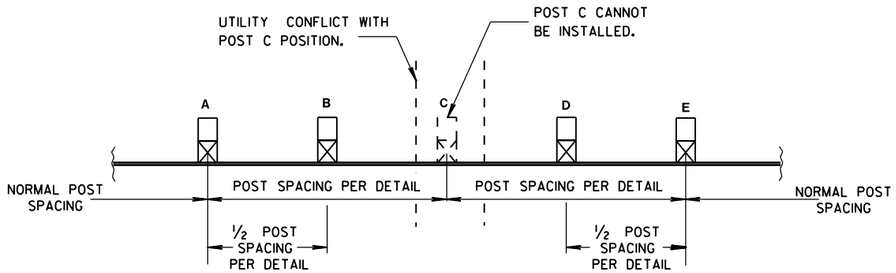
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA 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.



PLAN VIEW
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

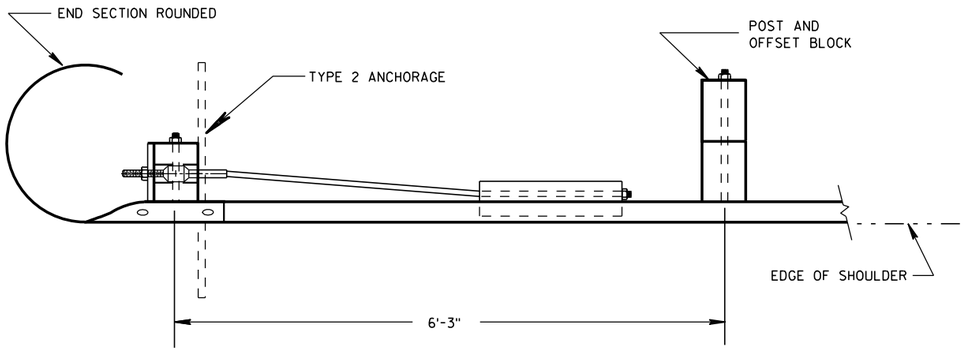
STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

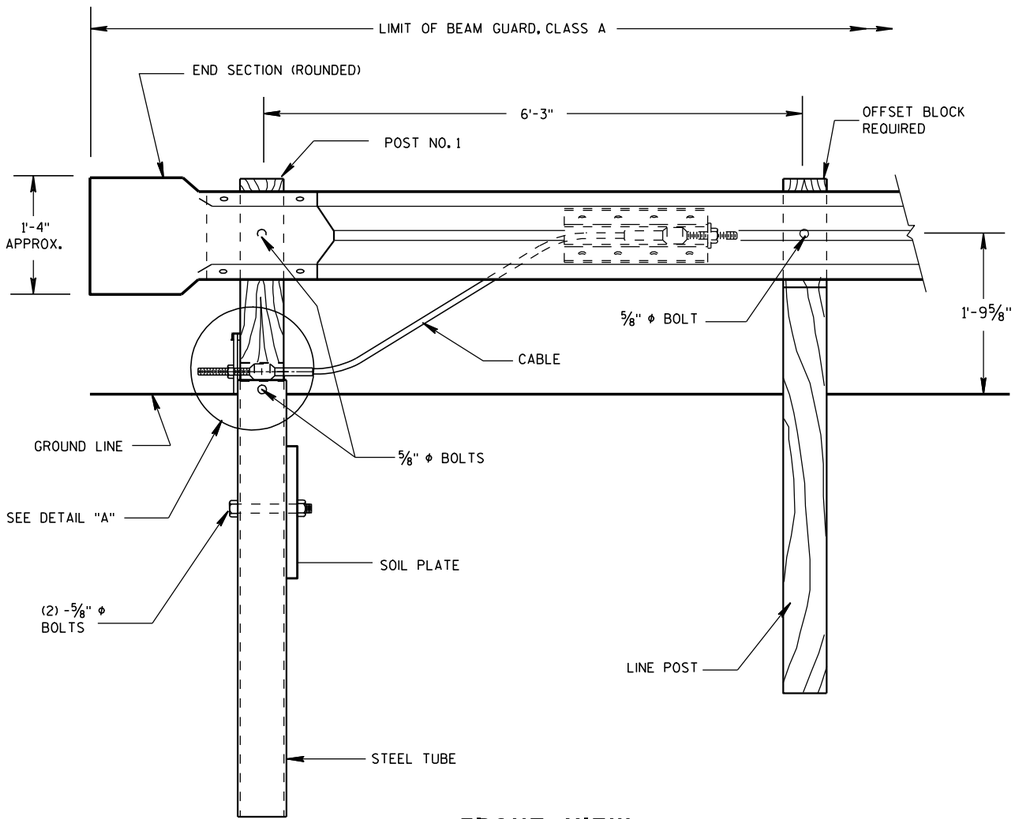
APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 14 B 15-8c



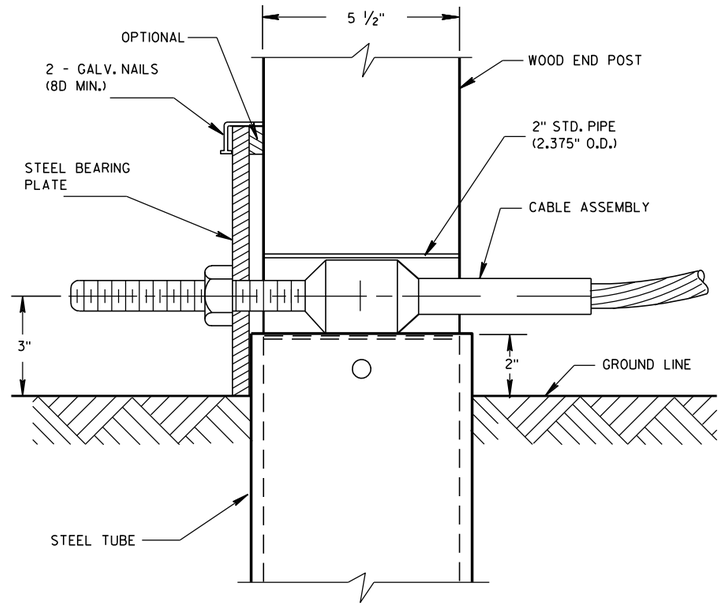
PLAN VIEW



FRONT VIEW

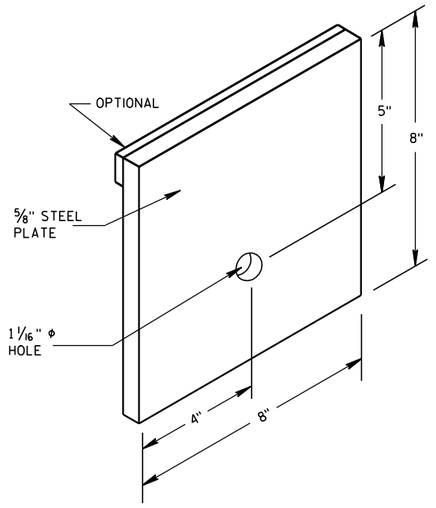
END TREATMENT WITH TYPE 2 ANCHORAGE

(USE ON ONE-WAY ROADWAYS ONLY - DEPARTING END)



DETAIL "A"

POST NO. 1

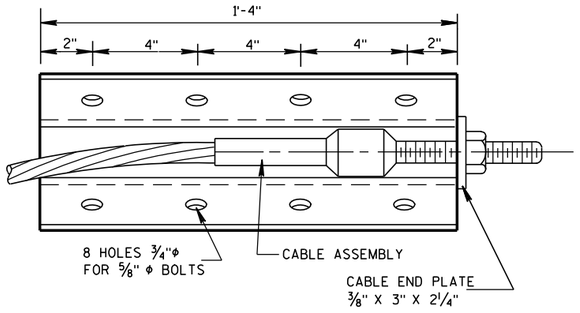


STEEL BEARING PLATE

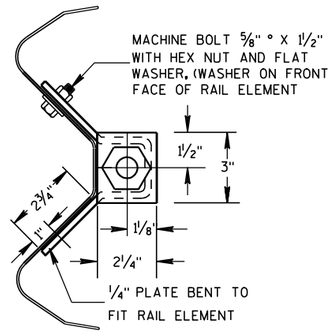
ANCHORAGE FOR STEEL
PLATE BEAM GUARD
TYPE 2

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 16-4a

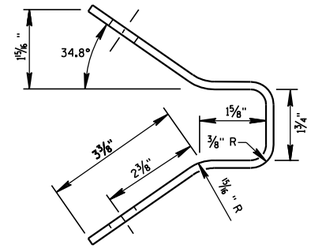


FRONT VIEW

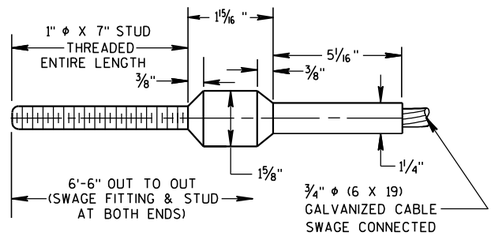


END VIEW

ANCHOR PLATE DETAIL



END VIEW OF BRACKET



CABLE ASSEMBLY

CABLE, SWAGE FITTING, STUD AND NUT SHALL DEVELOP
A MINIMUM BREAKING STRENGTH OF 40,000 LB
(TIGHTEN UNTIL TAUT)

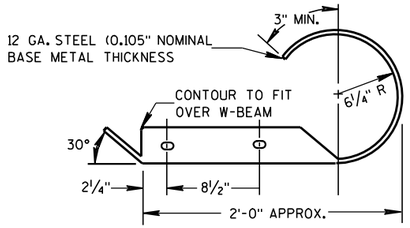
GENERAL NOTES

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

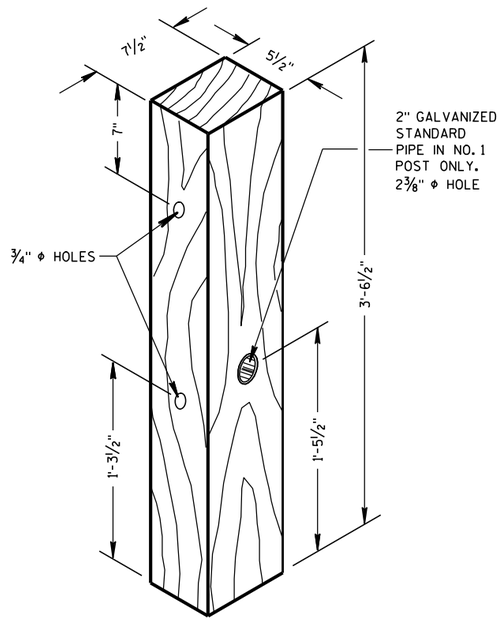
STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-500 GRADE B OR ASTM A-501.

POST NO. 1 SHALL BE WOOD BREAKAWAY POST INSERTED AND BOLTED INTO STEEL TUBE.

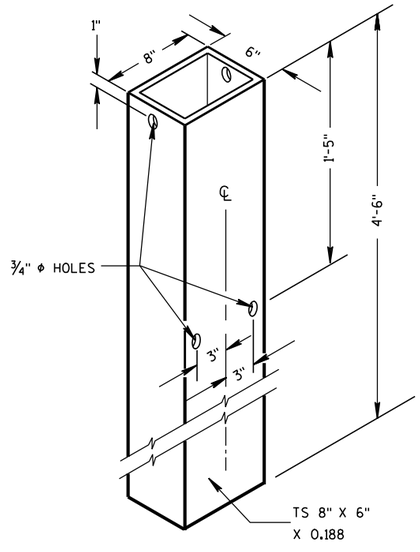
TYPE 2 ANCHORAGE SHALL CONSIST OF A STEEL TUBE, SOIL PLATE WOOD BREAKAWAY POST, BEARING PLATE, ANCHOR PLATE, CABLE ASSEMBLY AND ALL ASSOCIATED HARDWARE, ALL STEEL PARTS SHALL BE GALVANIZED.



PLAN VIEW

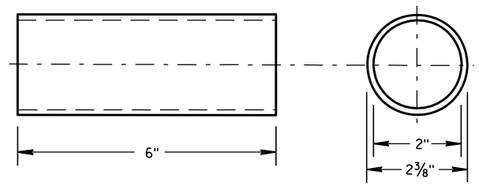


WOOD BREAKAWAY POST



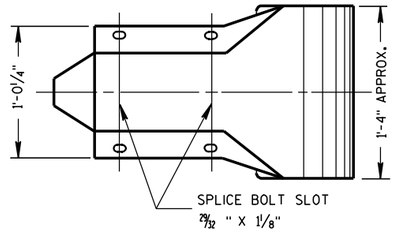
STEEL TUBE

STEEL TUBE SHALL CONFORM TO
REQUIREMENTS OF ASTM A500

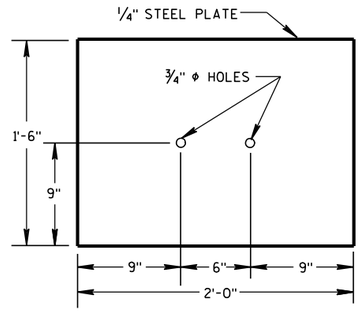


BREAKAWAY TERMINAL POST SLEEVE

GALVANIZED STANDARD STRENGTH STEEL PIPE, ASTM 53 GRADE "B"



FRONT VIEW
W BEAM END SECTION ROUNDED



SOIL PLATE

ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/21/2007 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
175
FHWA

6

S.D.D. 14 B 16-4b

6

S.D.D. 14 B 16-4b

GENERAL NOTES

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.

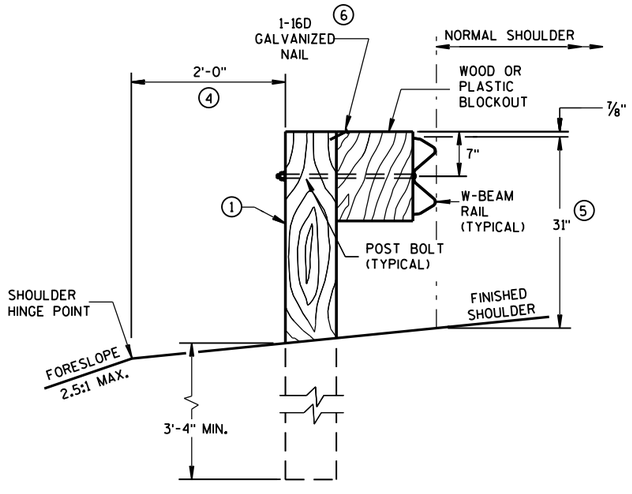
2. USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

3. IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ 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).

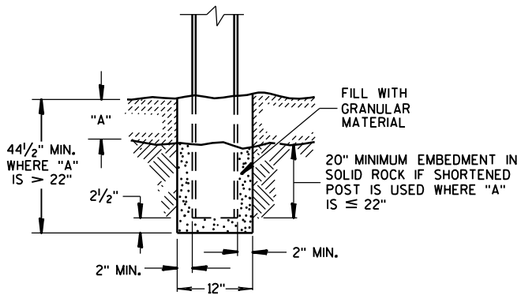
5. FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

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.



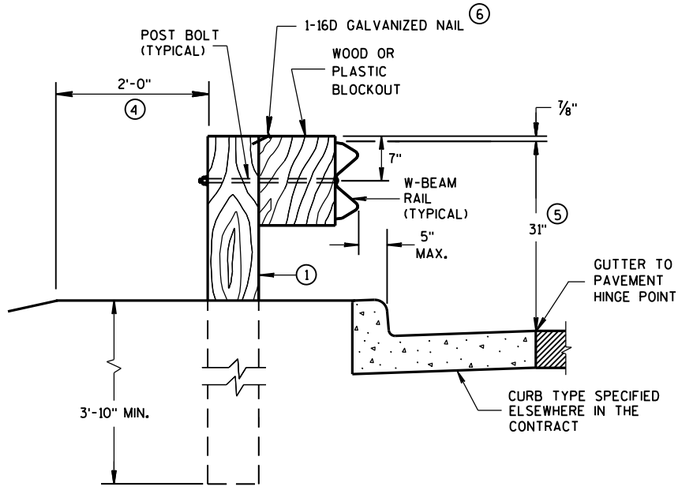
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



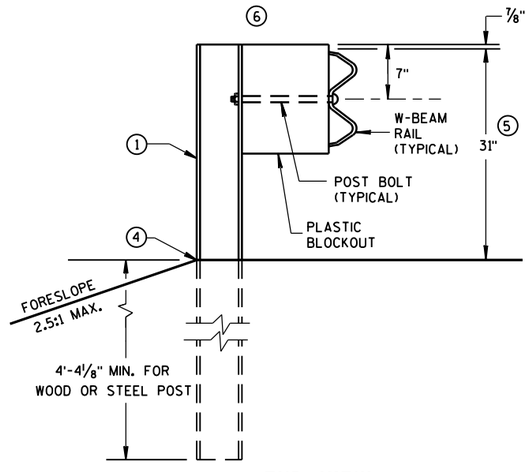
END VIEW

SETTING STEEL OR WOOD POST IN ROCK ③



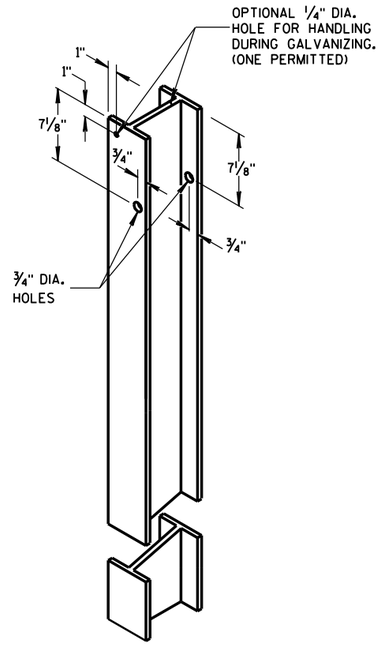
END VIEW

LOCATED ALONG A CURBED ROADWAY

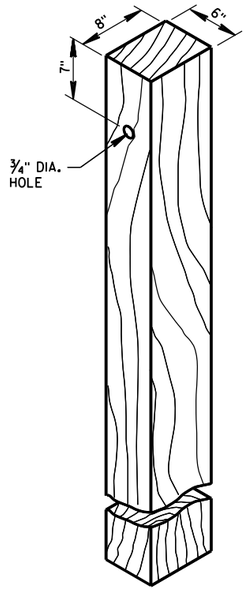


END VIEW

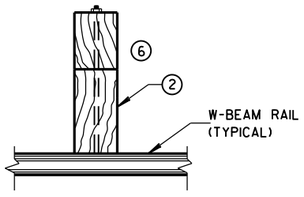
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



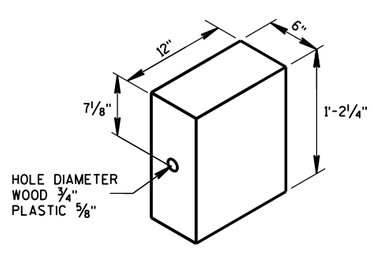
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



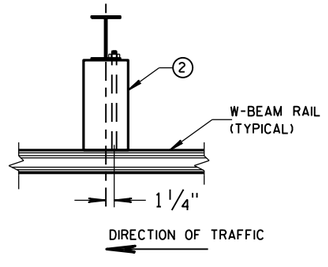
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②

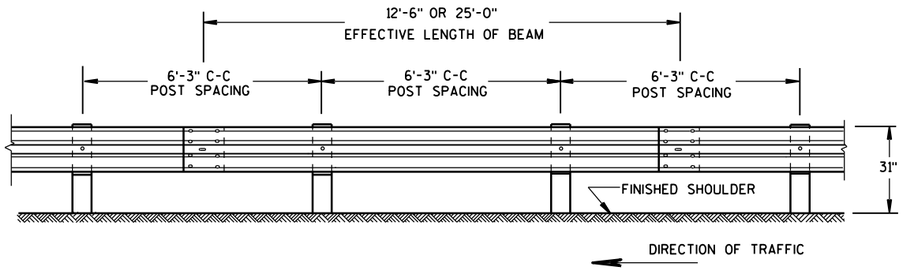


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

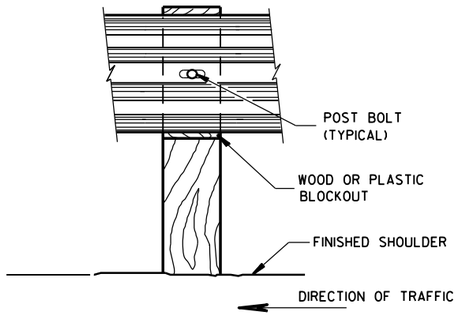
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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S.D.D. 14 B 42-3a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



FRONT VIEW AT WOOD POST

GENERAL NOTES

(7) PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

(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.

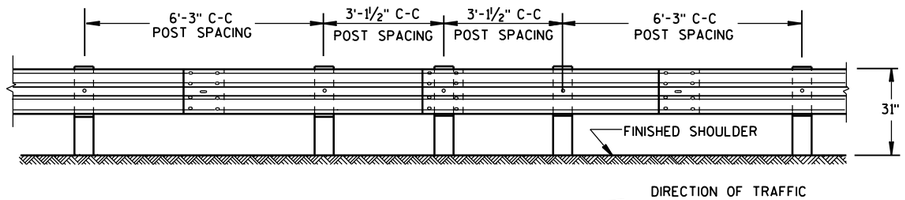
(9) REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

(10) PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

(11) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

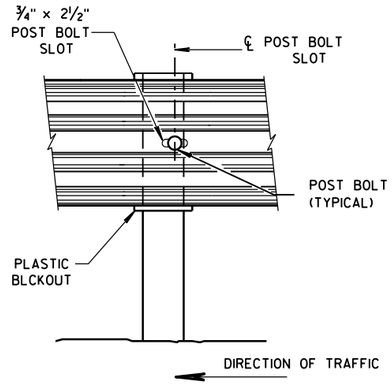
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

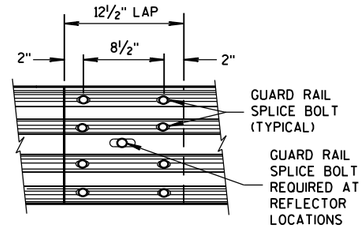


FRONT VIEW

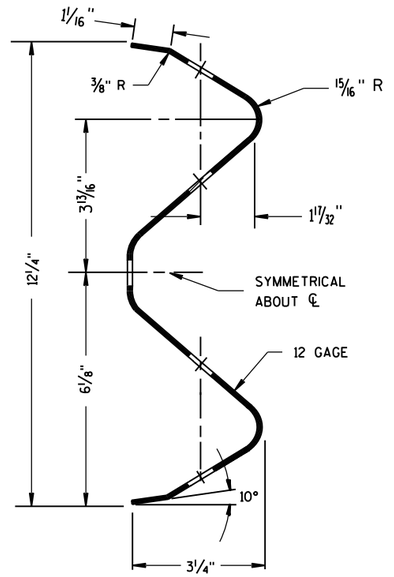
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



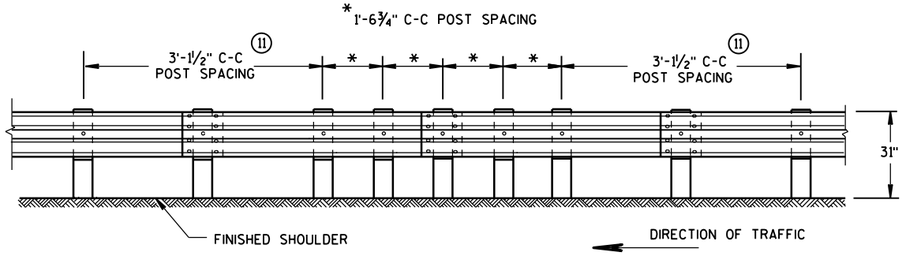
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

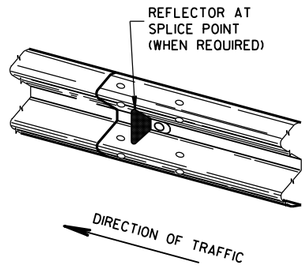


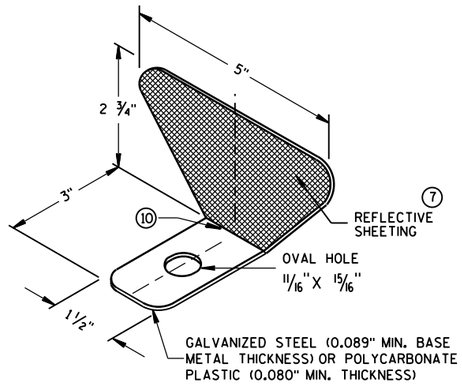
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





REFLECTOR SPACING (8)

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 (9)	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2 (10)	

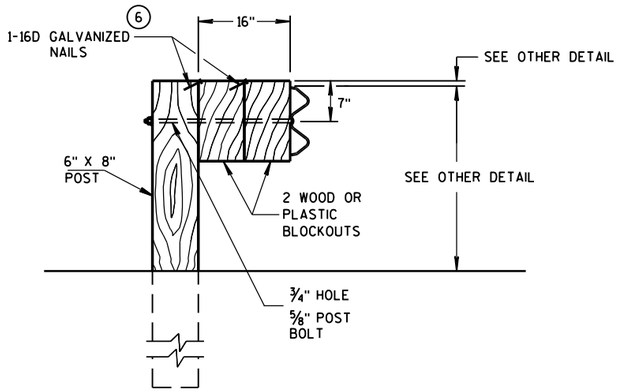
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (7)

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

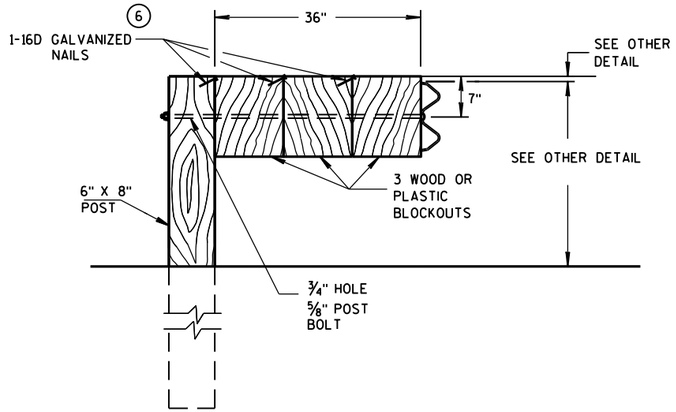
6

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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.

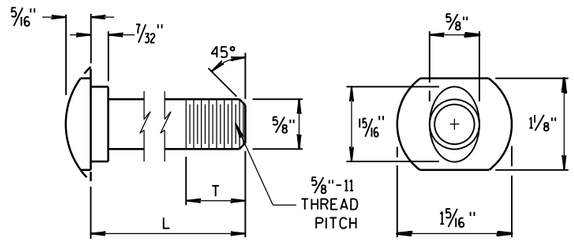


DETAIL FOR 36" BLOCKOUT DEPTH

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.

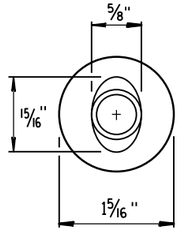
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

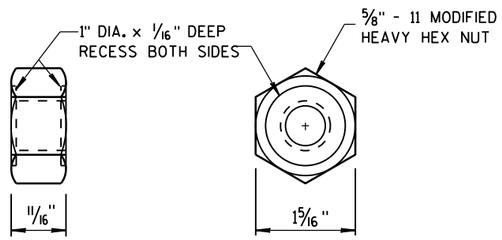


POST BOLT TABLE

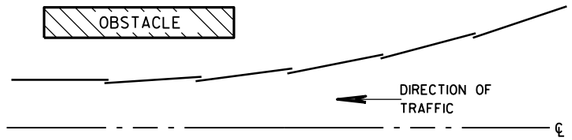
L	T (MIN.)
1¼"	1⅛"
2"	1¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

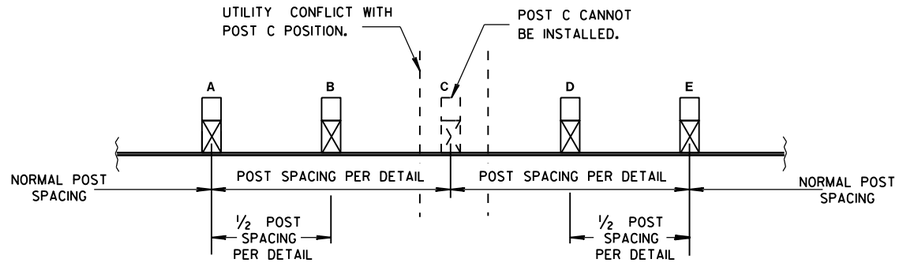


POST BOLT AND RECESS NUT

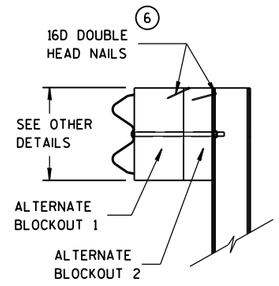


PLAN VIEW

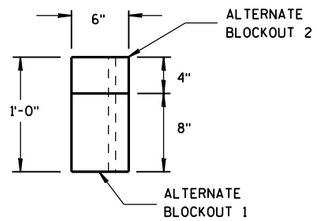
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6
S.D.D. 14 B 42-3c

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 MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

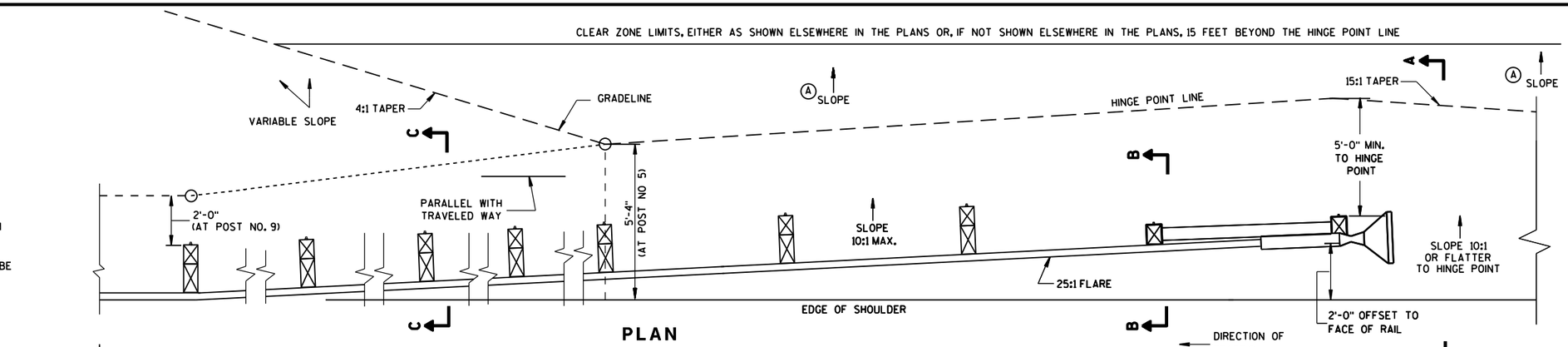
SEE SDD 14B42 FOR MORE INFORMATION.

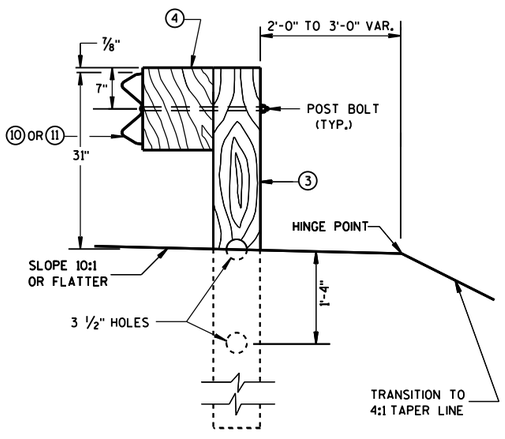
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

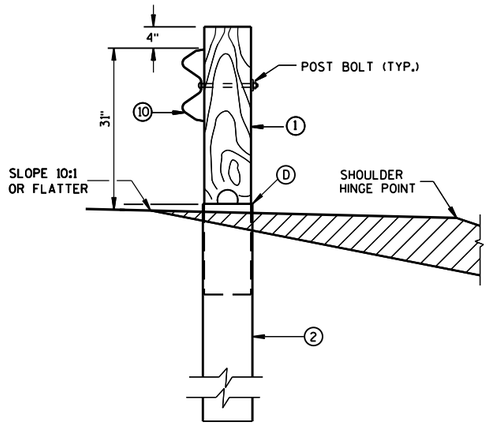
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

THE CENTER OF THE UPPER 3½" 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.

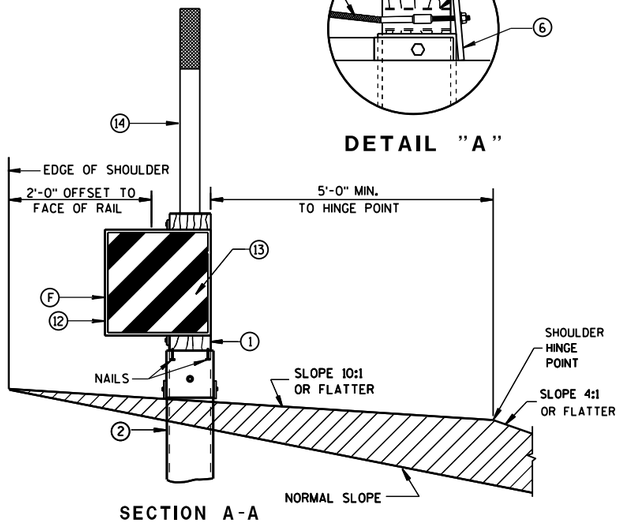




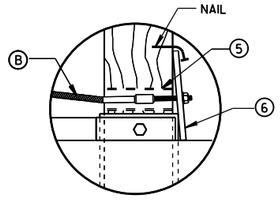
SECTION C-C
TYPICAL AT POST NOS. 3-9



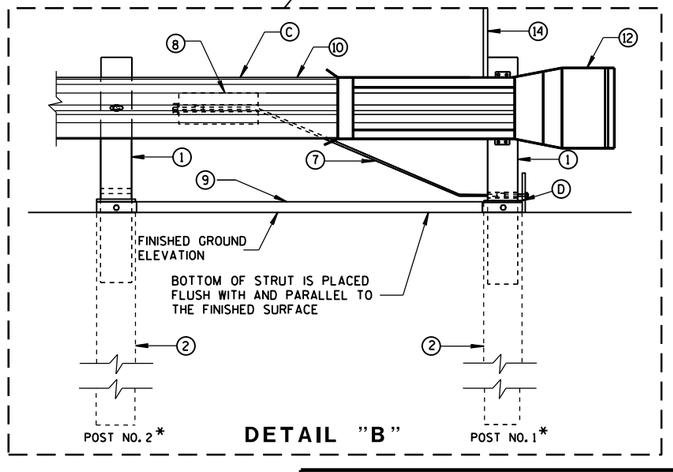
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"



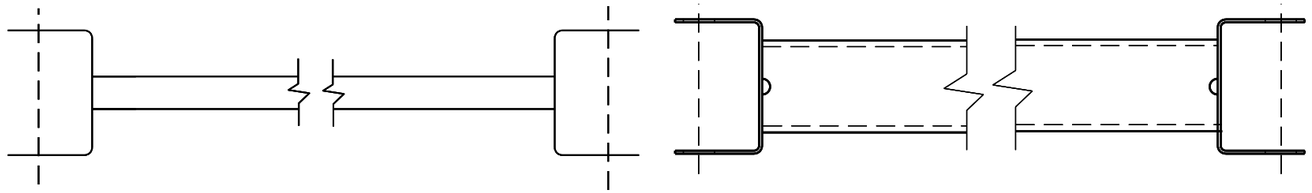
DETAIL "B"

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

S.D.D. 14 B 44-2a

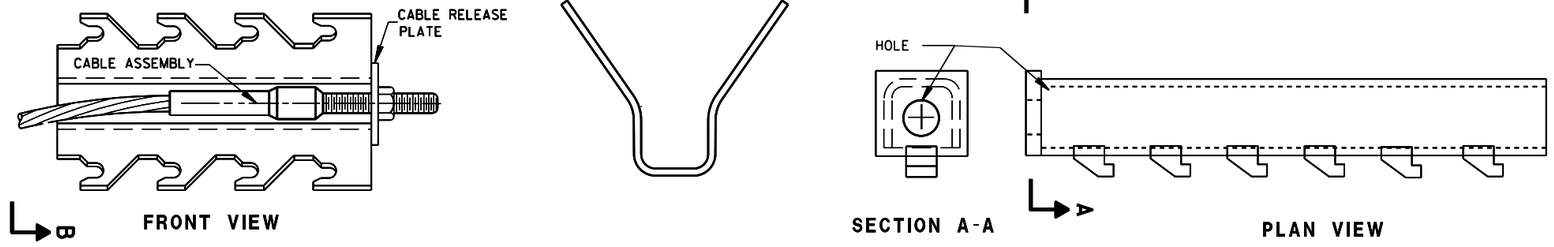
S.D.D. 14 B 44-2a



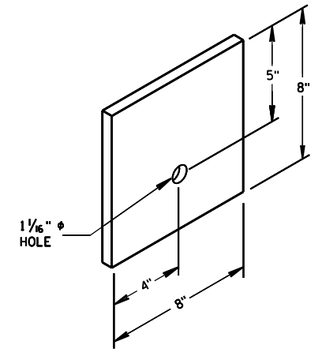
GENERIC GROUND STRUT (9) (H)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(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)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



GENERIC ANCHOR CABLE BOX (8) (H)



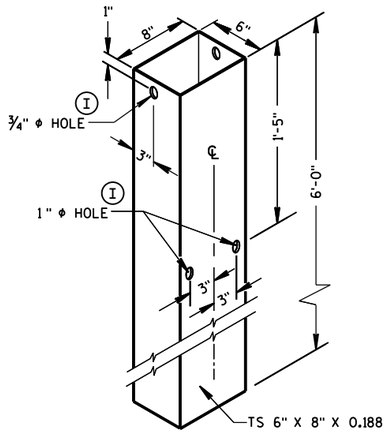
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

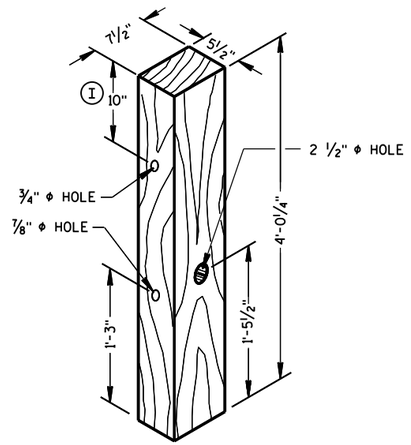
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 44-2b

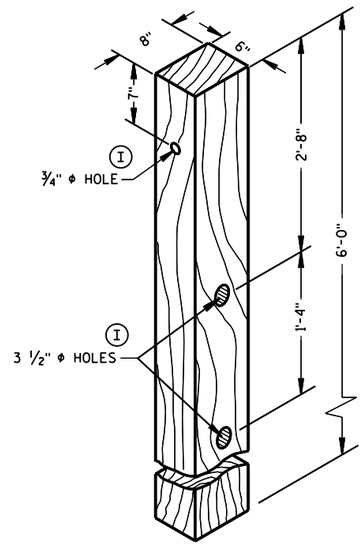


FOUNDATION TUBE (2)



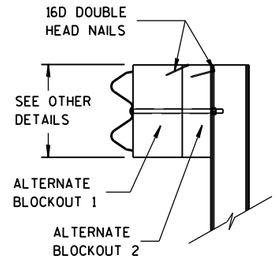
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

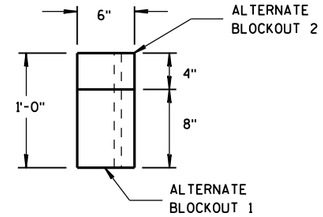


POSTS NUMBER 3-9

WOOD CRT POST (3)

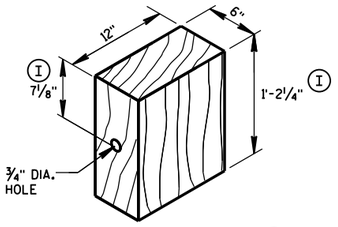


SIDE VIEW



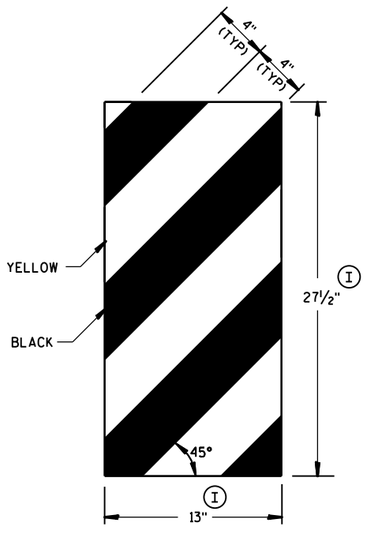
TOP VIEW

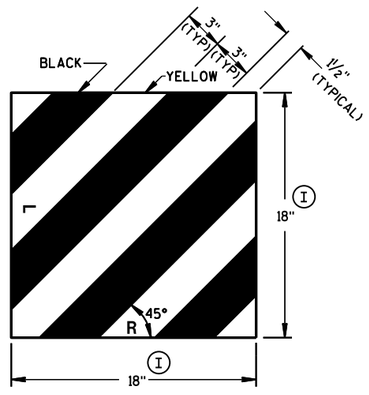
ALTERNATE WOOD BLOCKOUT DETAIL



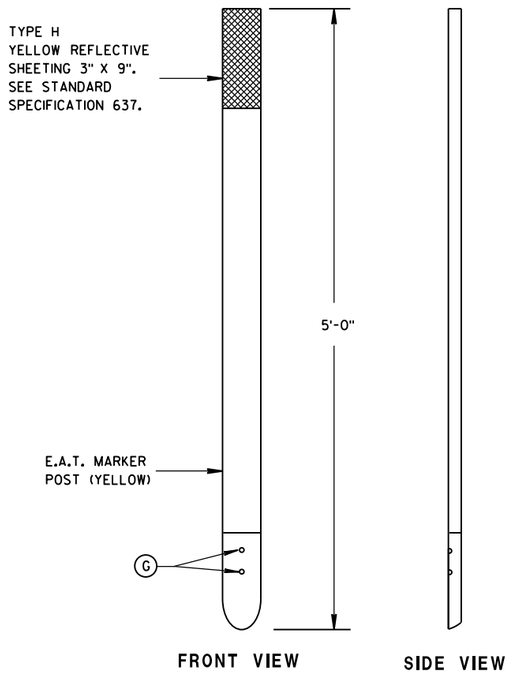
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





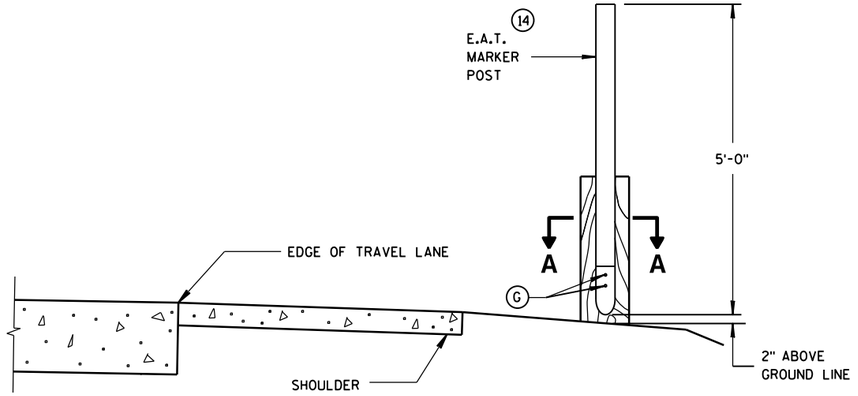
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

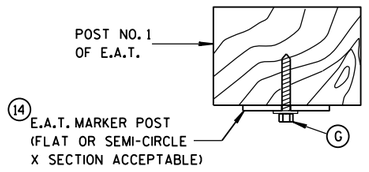
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

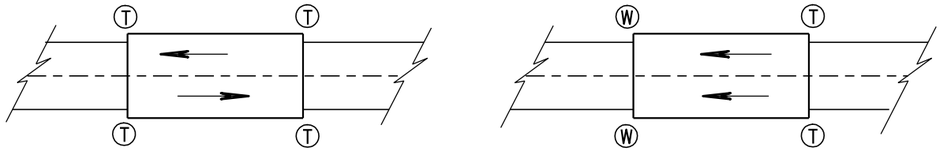
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

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S.D.D. 14 B 44-2c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

Ⓣ THRIE BEAM CONNECTION

Ⓦ W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

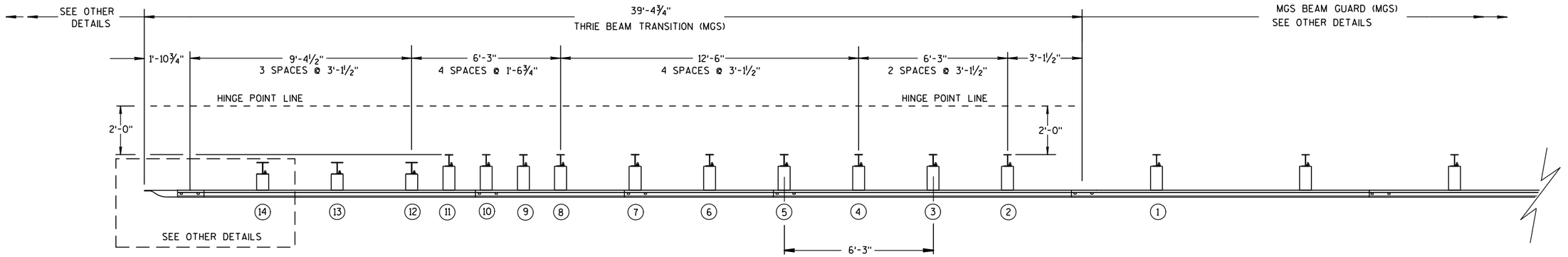
BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3.

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

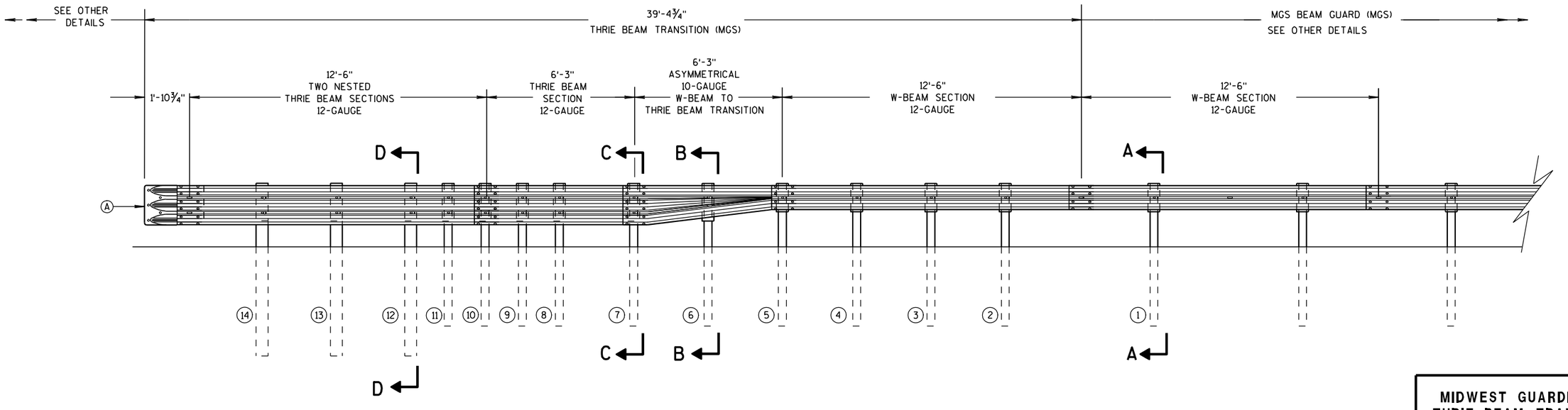
TRANSITION USES STEEL POSTS ONLY.

SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

Ⓐ BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

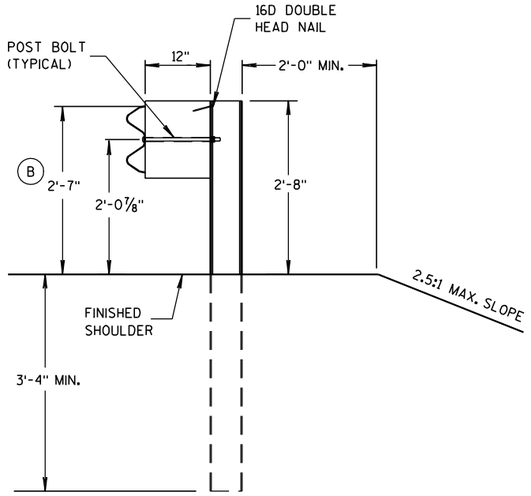
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 45-3a

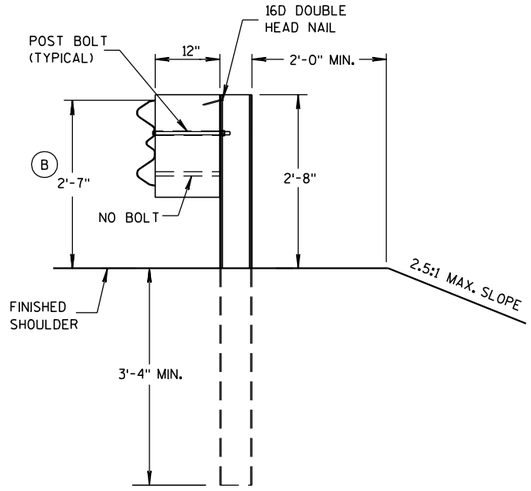
GENERAL NOTES

(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



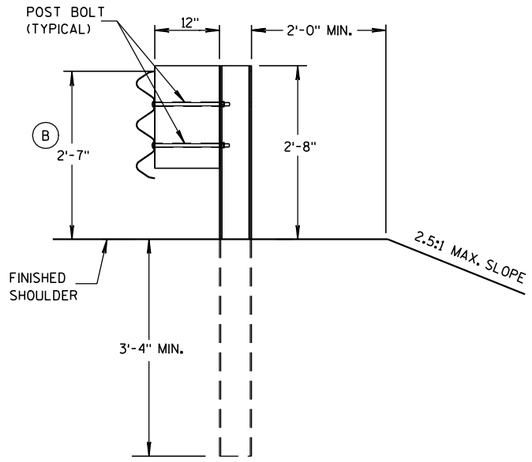
SECTION A-A

POSTS 1-5



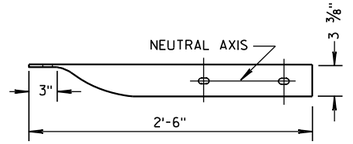
SECTION B-B

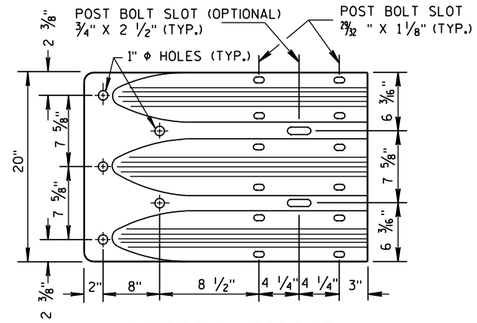
POST 6



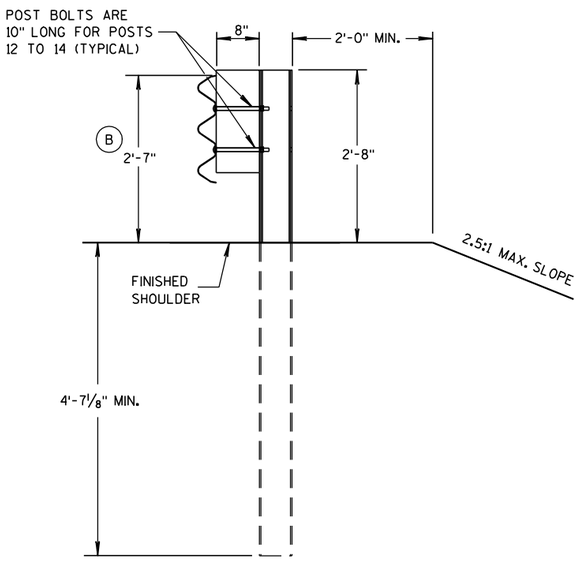
SECTION C-C

POSTS 7-11





THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-14

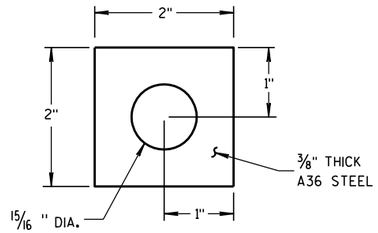
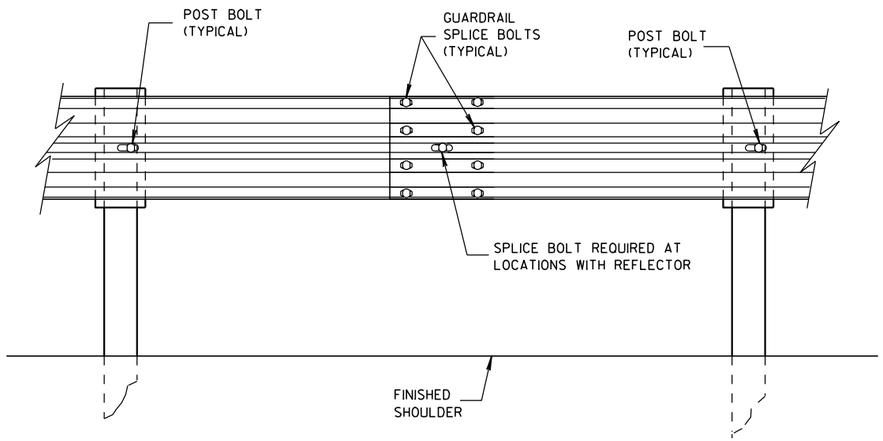
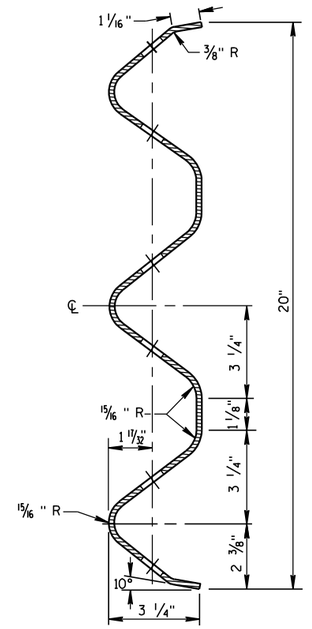


PLATE WASHER DETAIL



SPLICE DETAIL



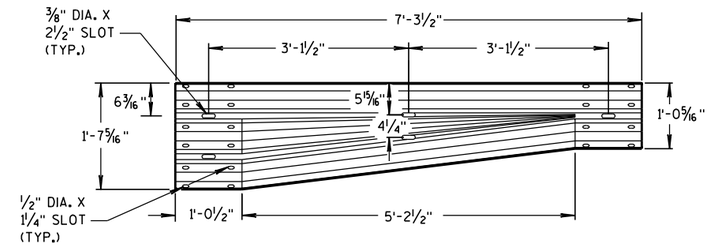
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

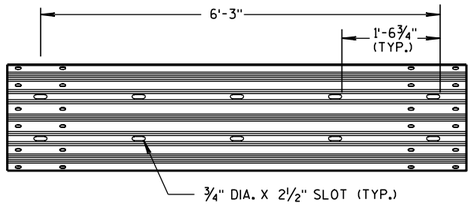
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

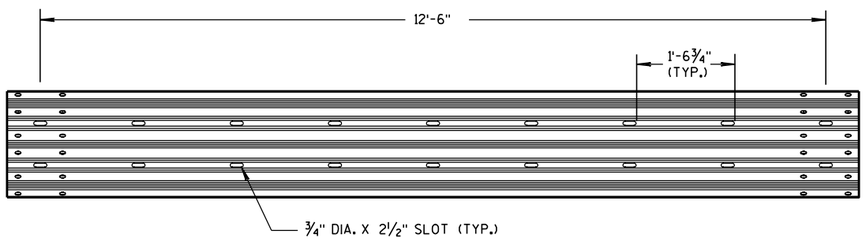
S.D.D. 14 B 45-3b



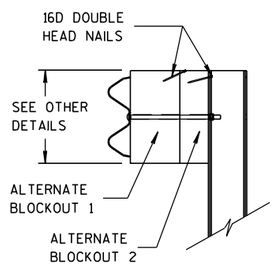
W-BEAM TO THRIE BEAM TRANSITION SECTION



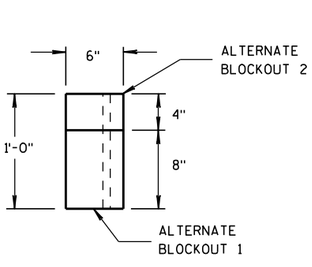
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

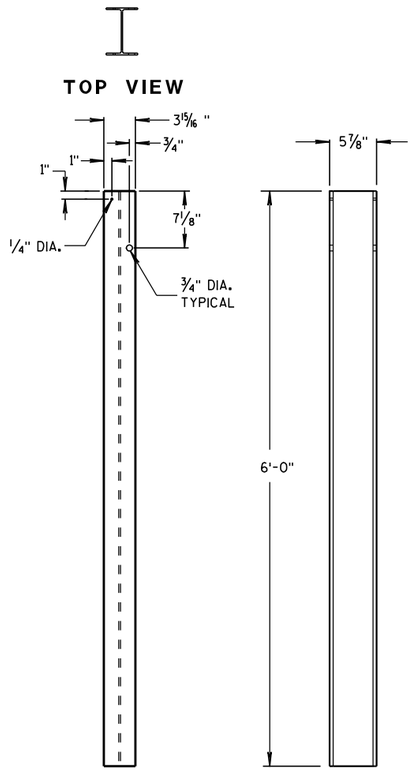


SIDE VIEW

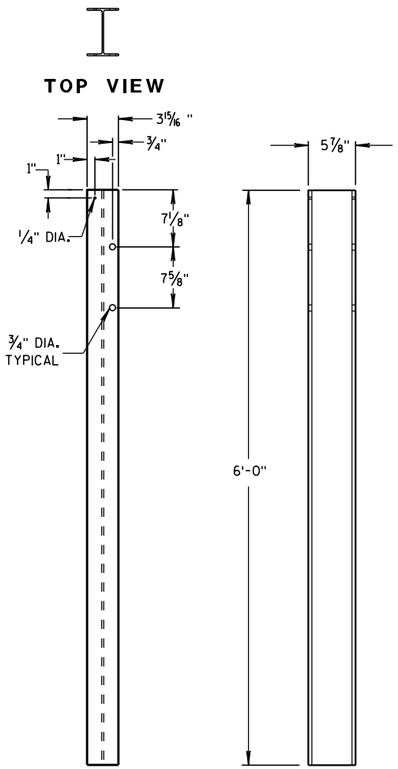


TOP VIEW

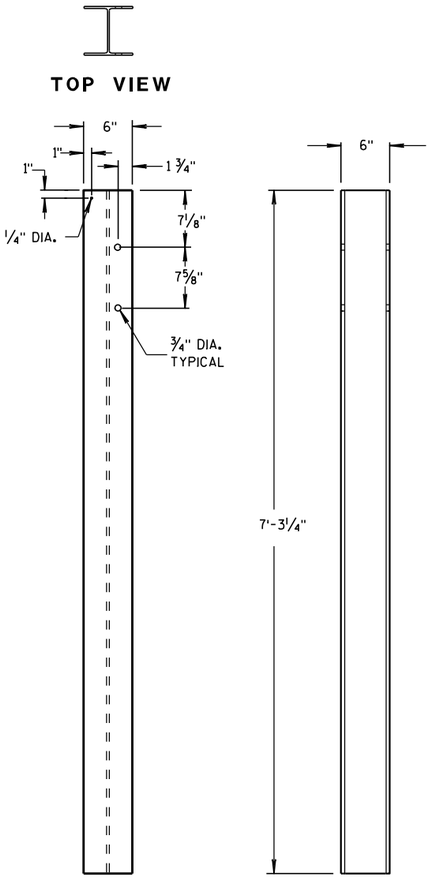
ALTERNATE WOOD BLOCKOUT DETAIL



STEEL POSTS 1-5

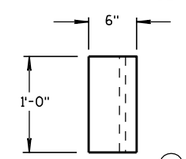


STEEL POSTS 6-11

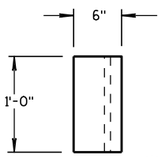


STEEL POSTS 12-14

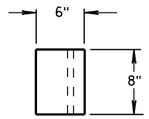
1 WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.



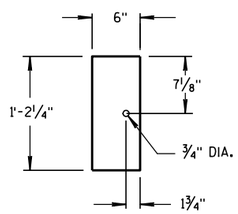
TOP VIEW (1)



TOP VIEW (1)

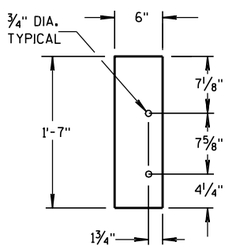


TOP VIEW



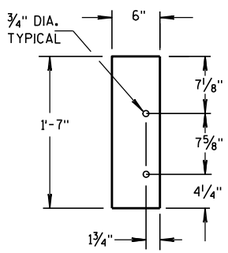
FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-11



FRONT VIEW

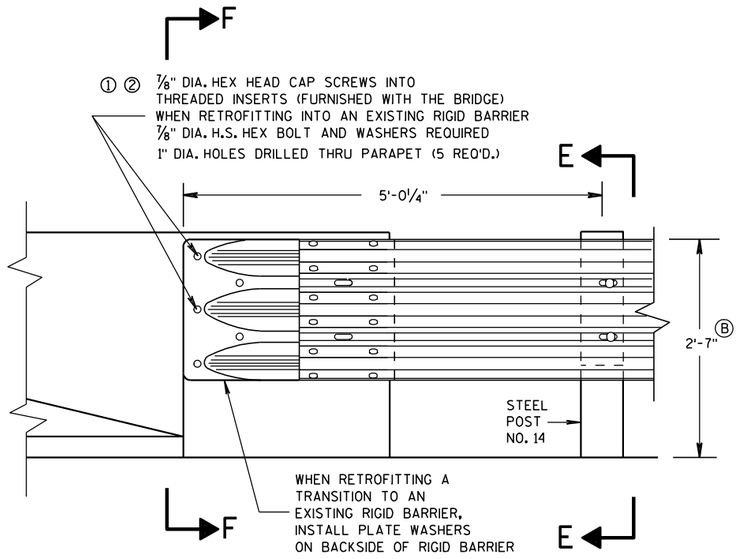
BLOCKOUT POSTS 12-14

STEEL POST SIZES

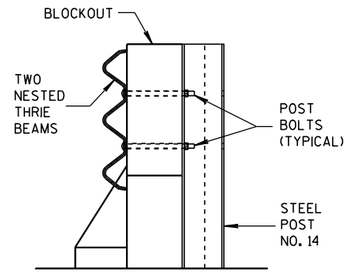
POST NUMBER	SECTION TYPE	LENGTH
1	W6x9	72"
2	W6x9	72"
3	W6x9	72"
4	W6x9	72"
5	W6x9	72"
6	W6x9	72"
7	W6x9	72"
8	W6x9	72"
9	W6x9	72"
10	W6x9	72"
11	W6x9	72"
12	W6x15	87 1/8"
13	W6x15	87 1/8"
14	W6x15	87 1/8"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



FRONT VIEW



SECTION E-E

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

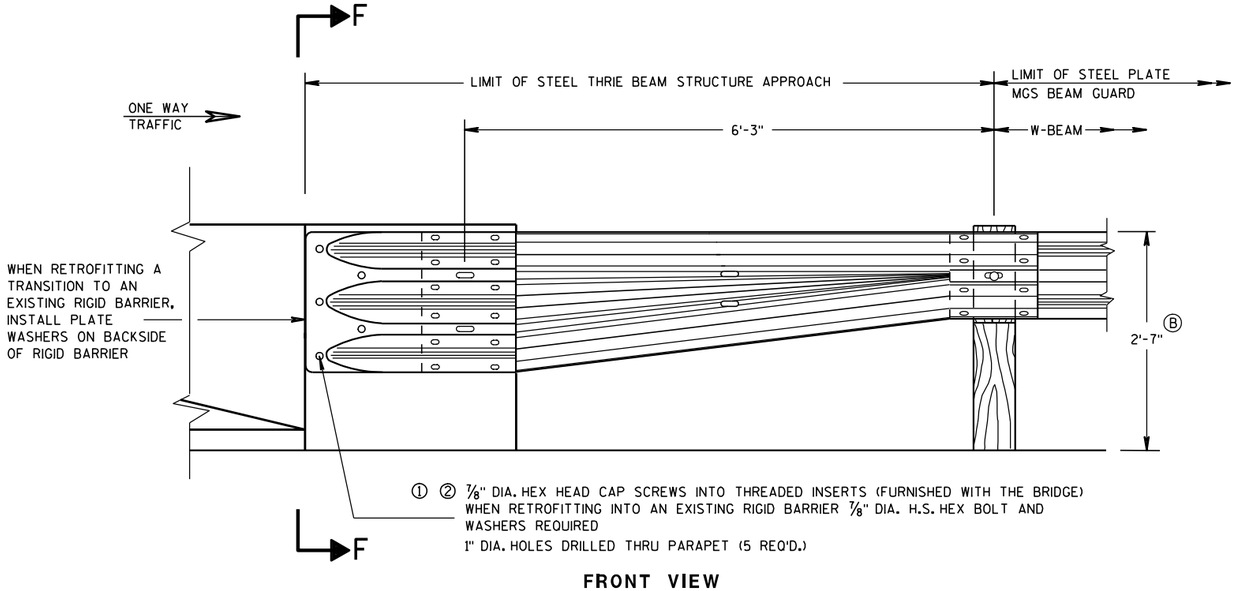
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

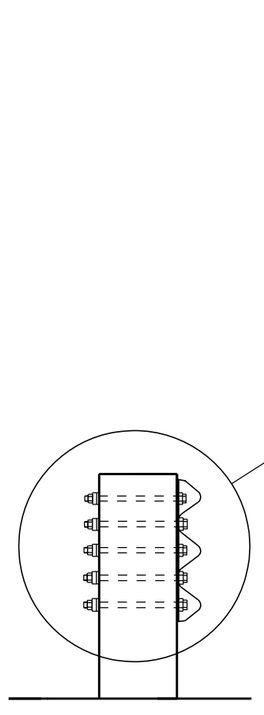
③ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".

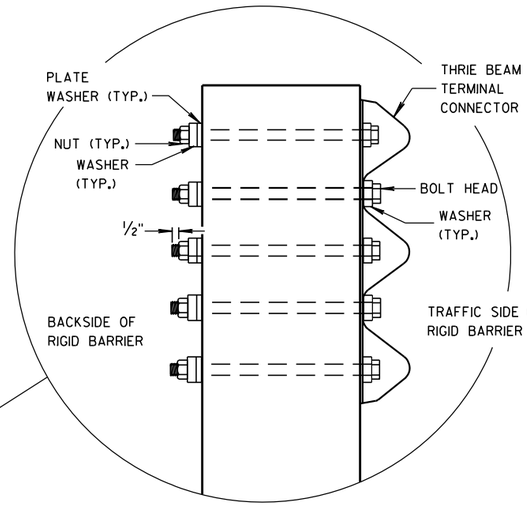
THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS



FRONT VIEW



SECTION F-F



W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012 — DATE

/S/ Jerry H. [illegible] — ROADWAY STANDARDS [illegible] ENGINEER

FHWA

6

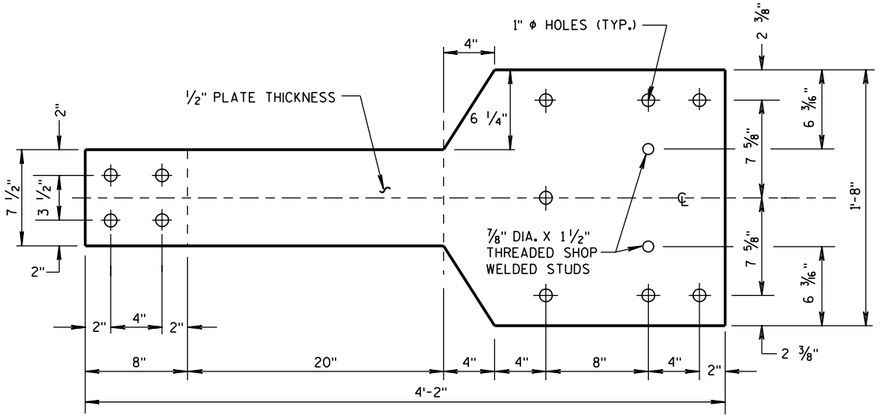
S.D.D. 14 B 45-3d

6

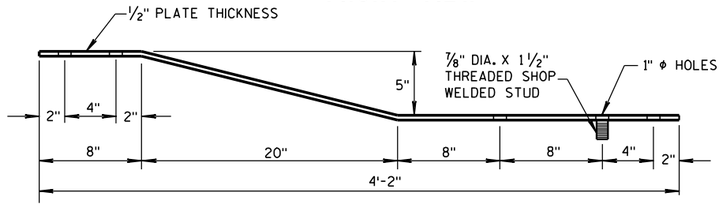
S.D.D. 14 B 45-3d

GENERAL NOTES

(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

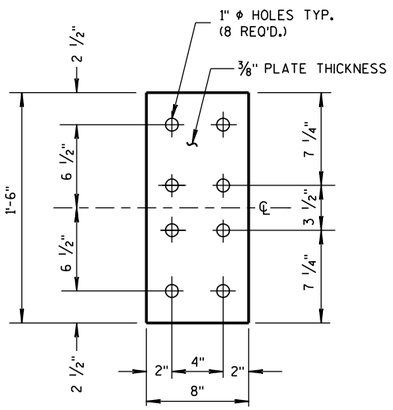


FRONT VIEW



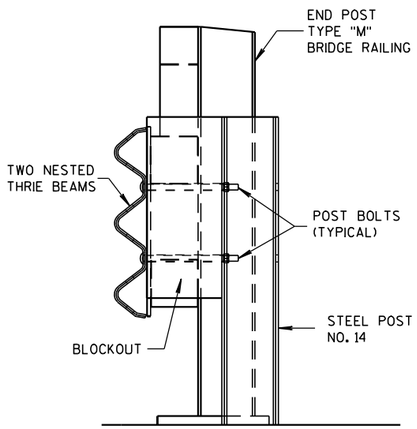
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

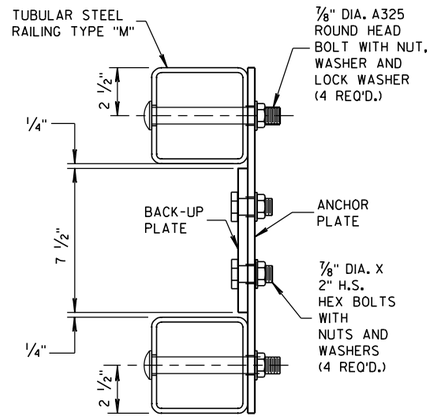


FRONT VIEW

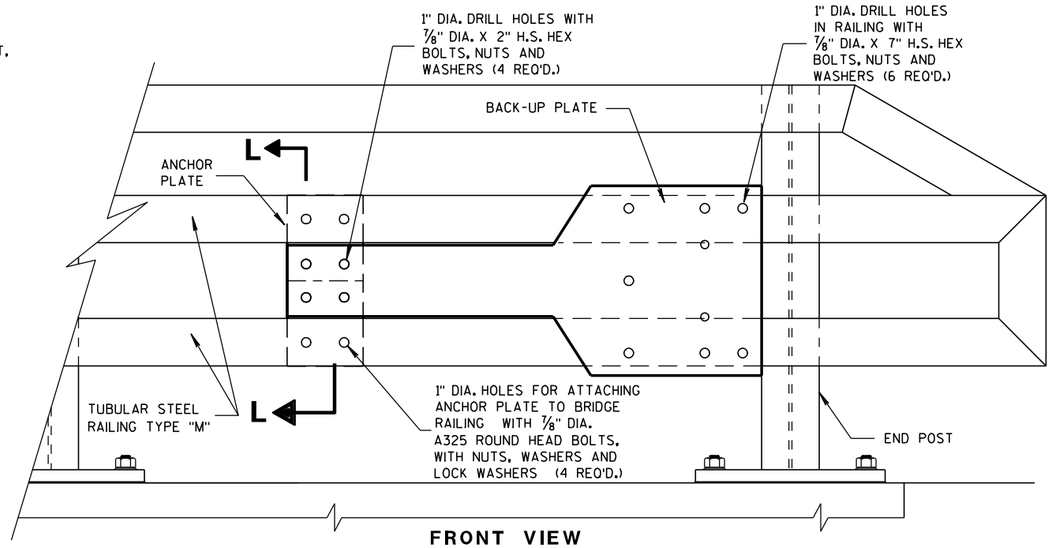
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

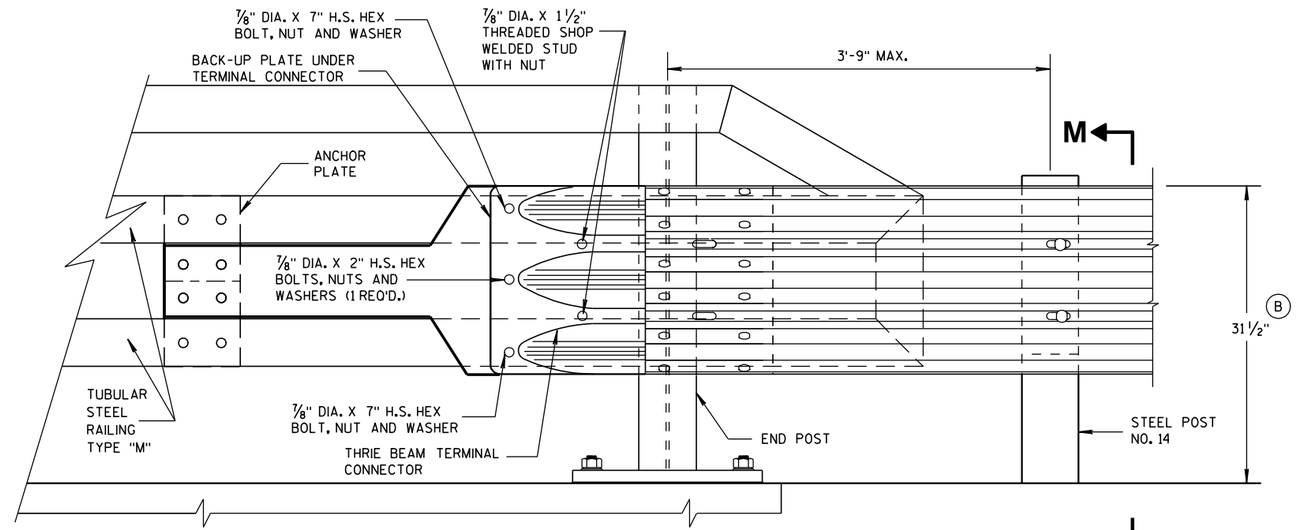


SECTION L-L

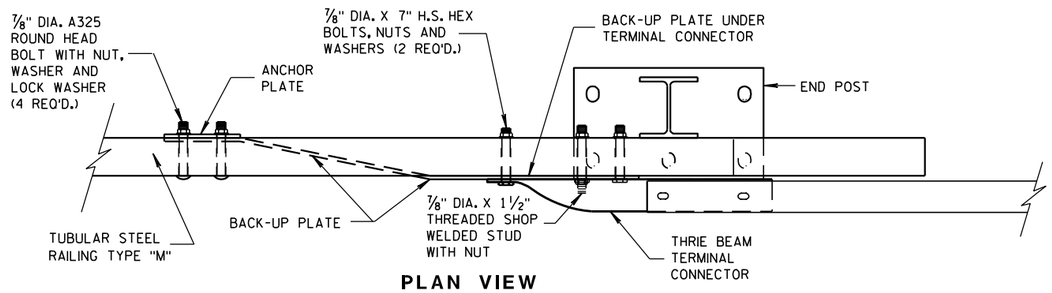


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-31-2012 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

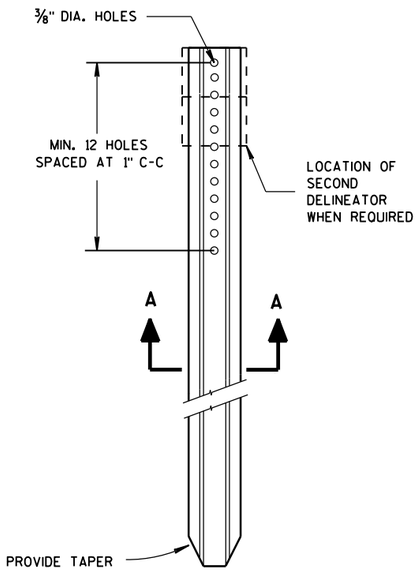
FHWA

6

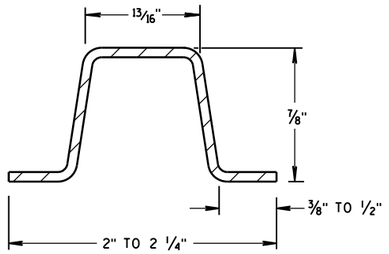
S.D. 14 B 45-3h

6

S.D. 14 B 45-3h

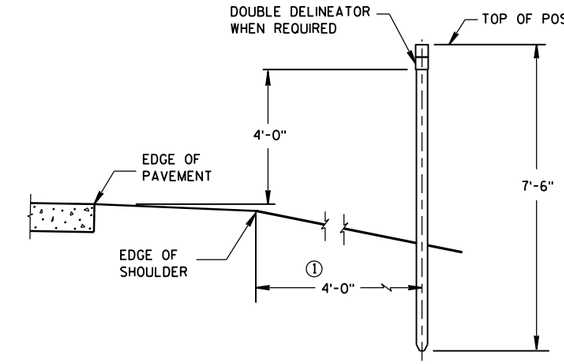


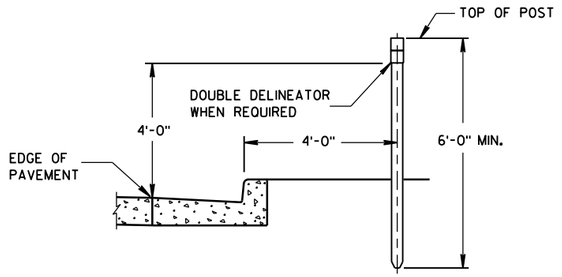
DELINEATOR POST



SECTION A-A

WEIGHT 1.12 LBS PER FT. ± 0.1 LB.



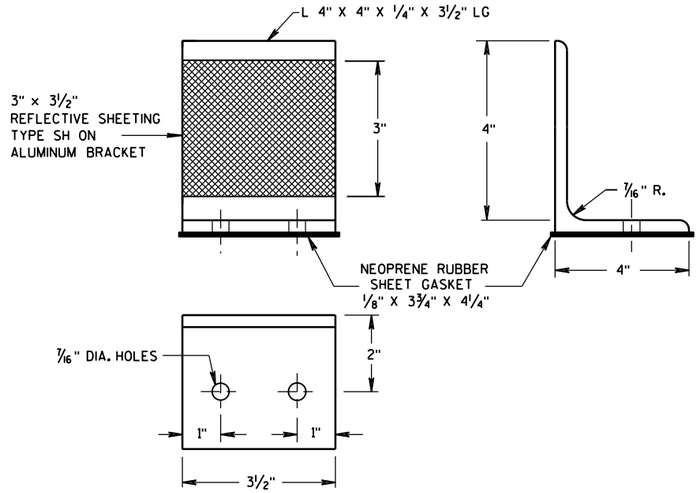


TYPICAL INSTALLATIONS OF DELINEATOR POSTS

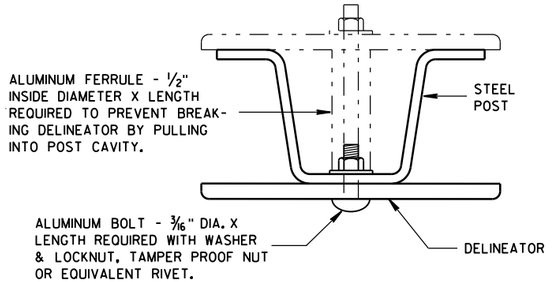
GENERAL NOTES

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

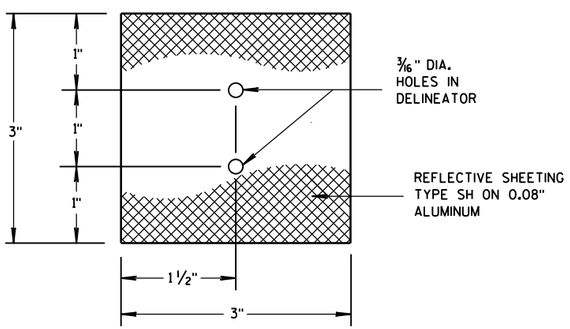
① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.



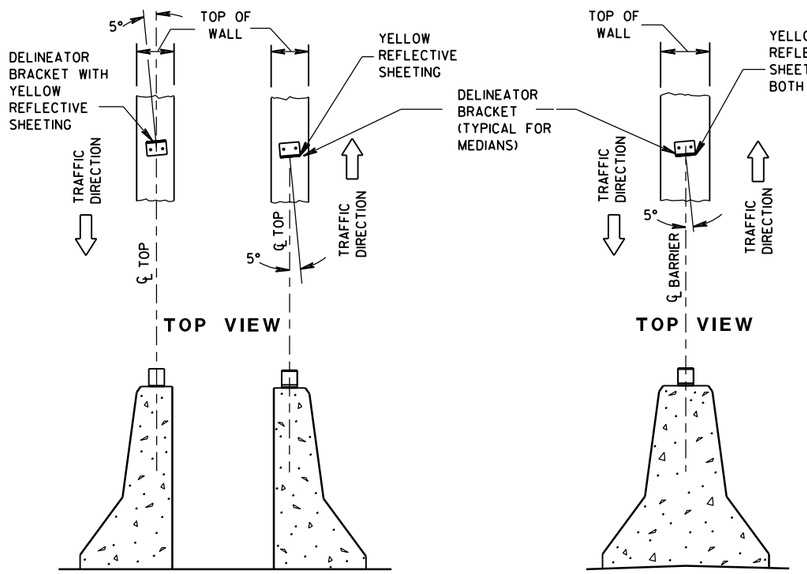
DELINEATOR BRACKET



MOUNTING DETAIL FOR DELINEATOR

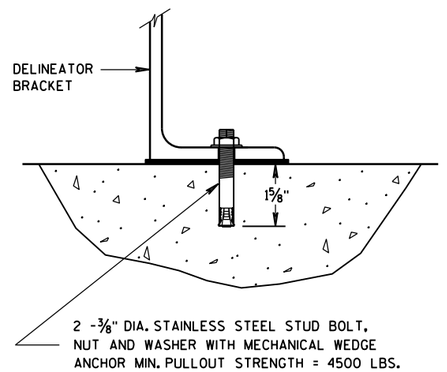


3"x 3" DELINEATOR



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

DELINEATOR POST, DELINEATOR, AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING

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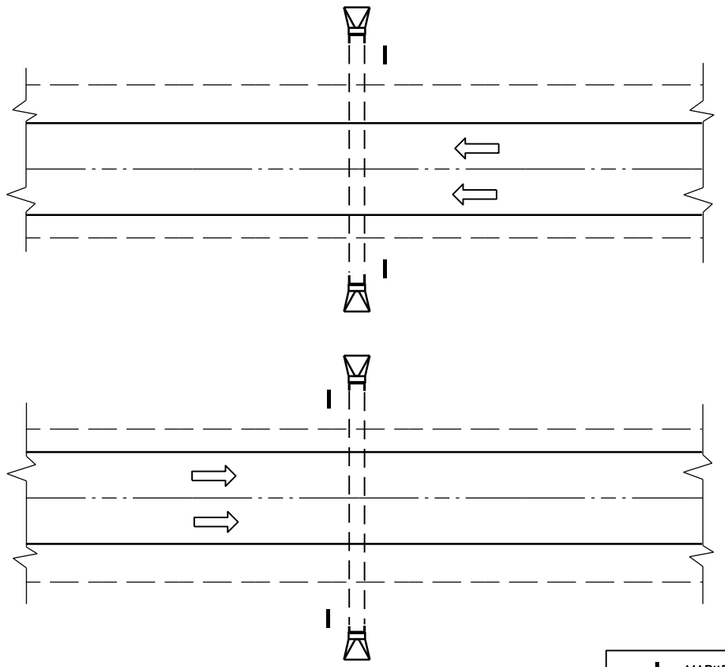
APPROVED
7/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC E
FHWA

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S.D.D. 15 A 2-8

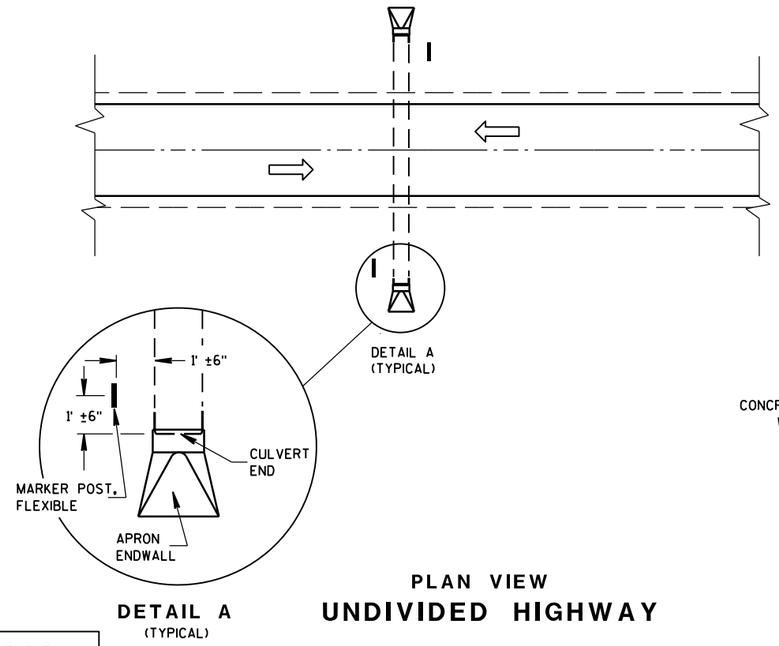
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S.D.D. 15 A 2-8



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

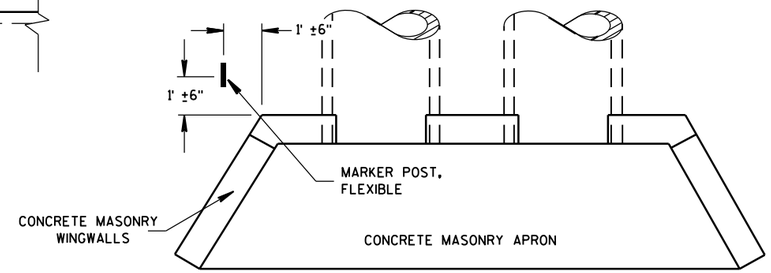
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

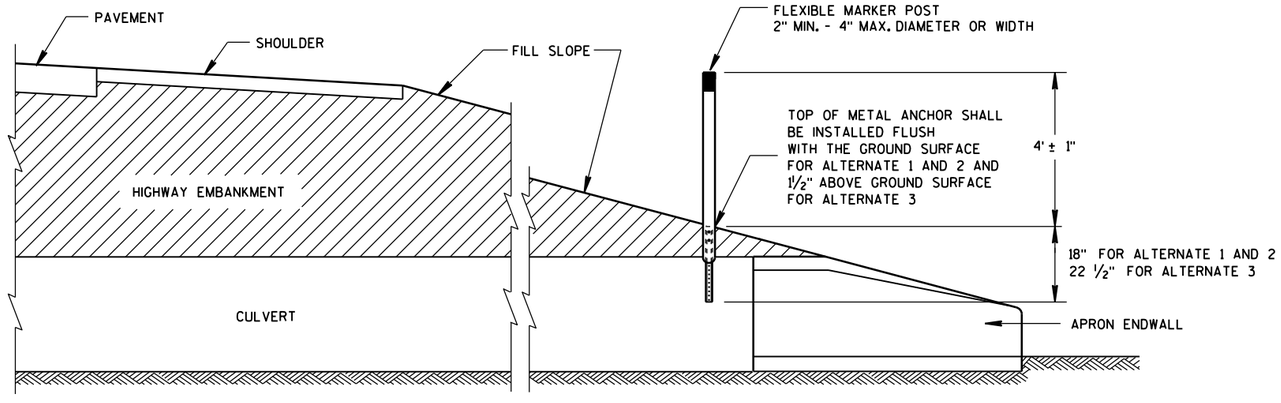
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

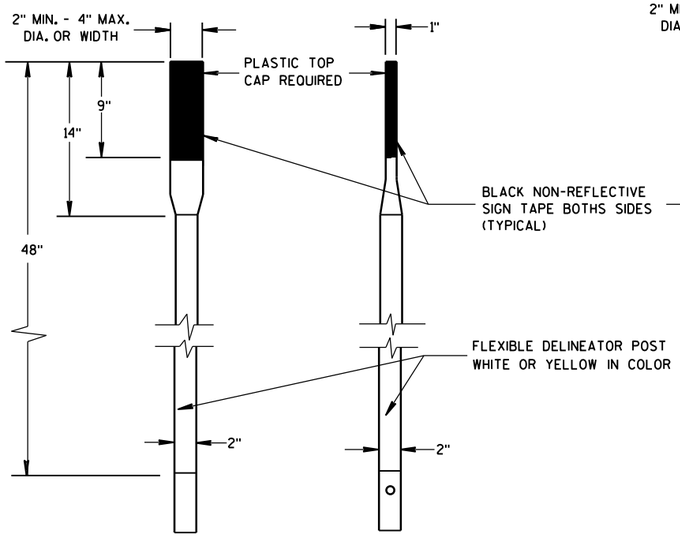
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DEPARTMENT OF TRANSPOI

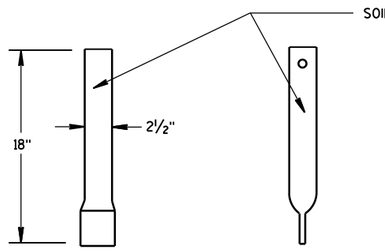
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S.D.D. 15 A 3-2a

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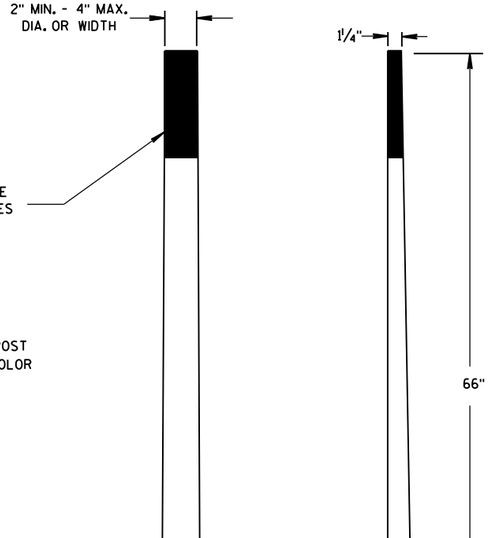
S.D.D. 15 A 3-2a





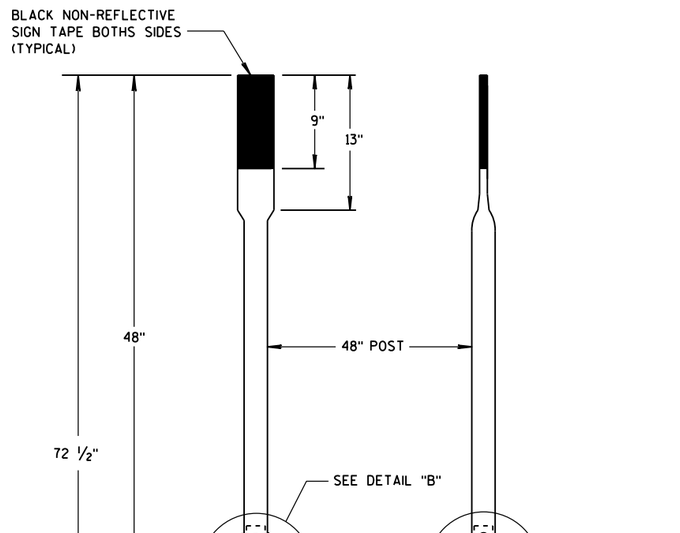
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

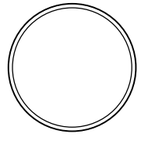
ALTERNATE 2



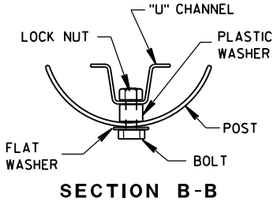
FRONT VIEW SIDE VIEW

ALTERNATE 3

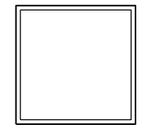
FLEXIBLE MARKER POSTS



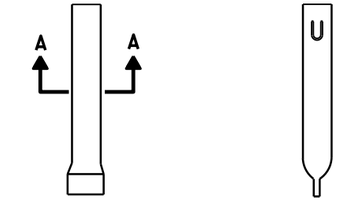
SECTION A-A



SECTION B-B

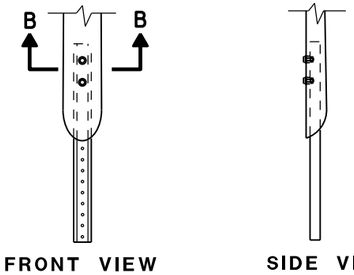


SECTION C-C



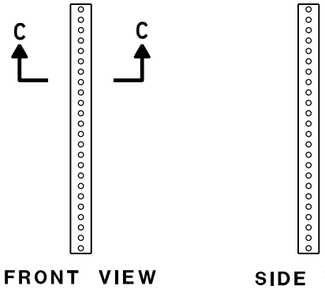
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

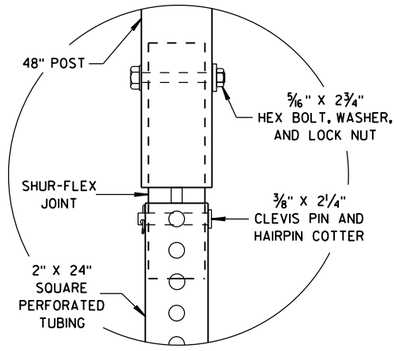
ALTERNATE 2



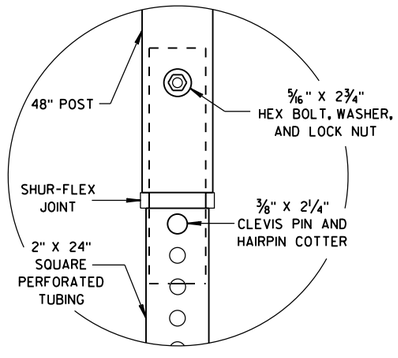
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

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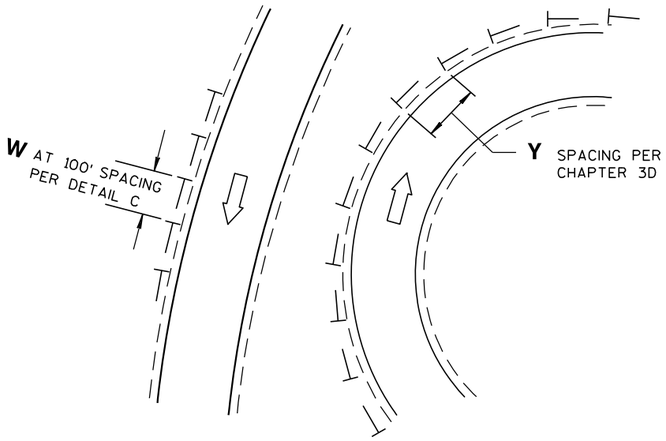
S.D.D. 15 A 3-2b

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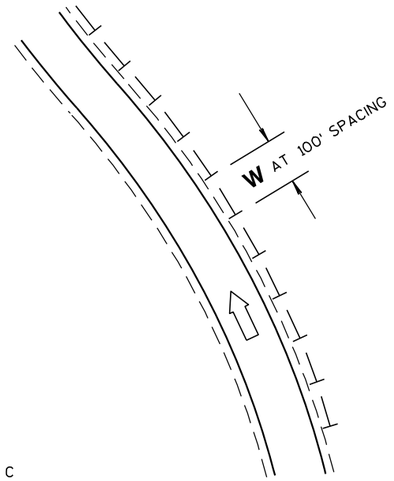
S.D.D. 15 A 3-2b

GENERAL NOTES

* USE DOUBLE DELINEATOR ALONG ACCELERATION-DECELERATION LANES AND TAPERS. USE SINGLE DELINEATOR WHEN RAMP PAVEMENT IS FULL WIDTH.



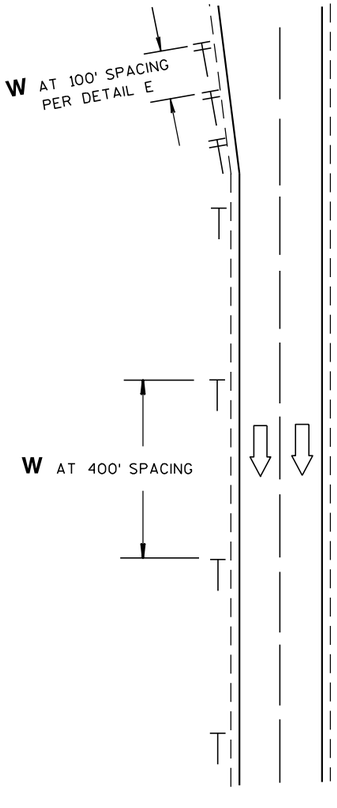
DETAIL A
DELINEATOR LAYOUT AT CURVED RAMP



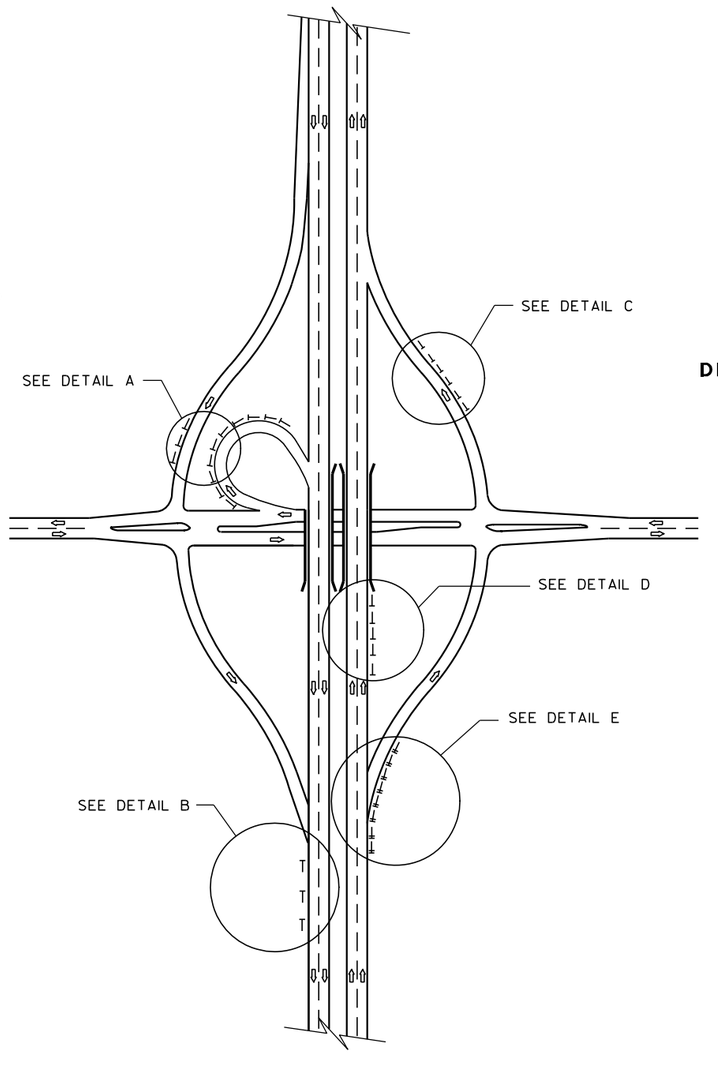
DETAIL C
DELINEATOR LAYOUT ALONG RAMP

LEGEND

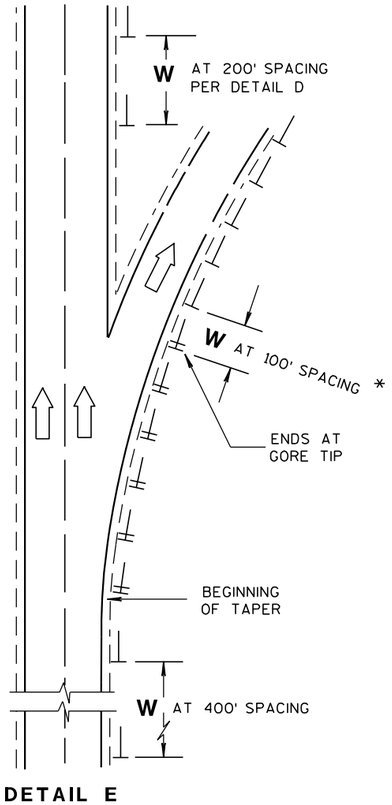
- DIRECTION OF TRAFFIC FLOW
- SINGLE DELINEATOR
- DOUBLE DELINEATOR
- W — WHITE
- Y — YELLOW



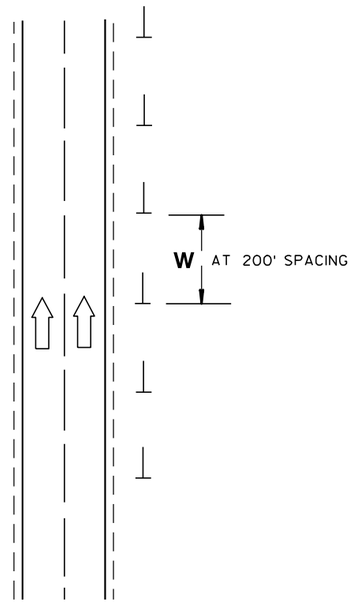
DETAIL B
DELINEATOR LAYOUT ALONG MAINLINE



DELINEATOR LAYOUT



DETAIL E
DELINEATOR LAYOUT FOR ACCELERATION - DECELERATION LANES AND TAPERS AT RAMPS



DETAIL D
DELINEATOR LAYOUT BETWEEN INTERCHANGE RAMPS

DELINEATOR LAYOUT

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FHWA

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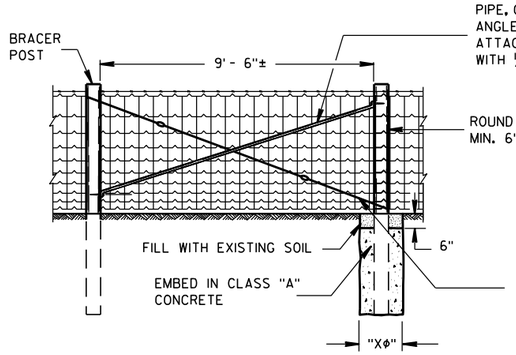
S.D.D. 15 A 6-2

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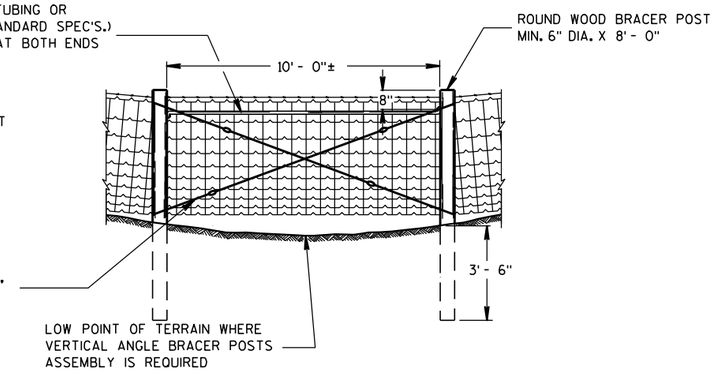
S.D.D. 15 A 6-2

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

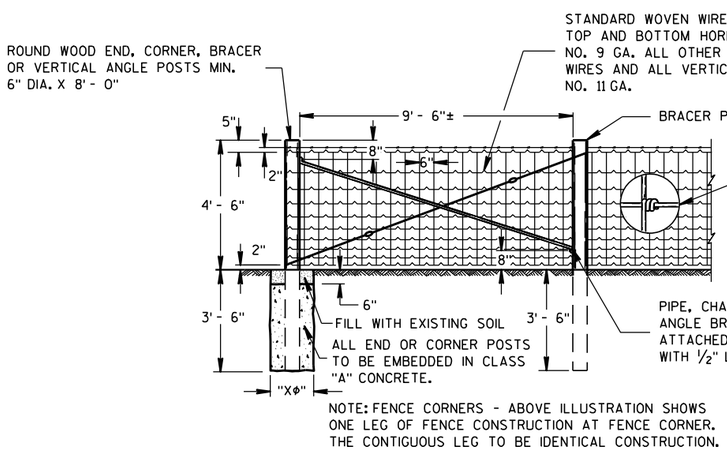
GENERAL NOTES

"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.

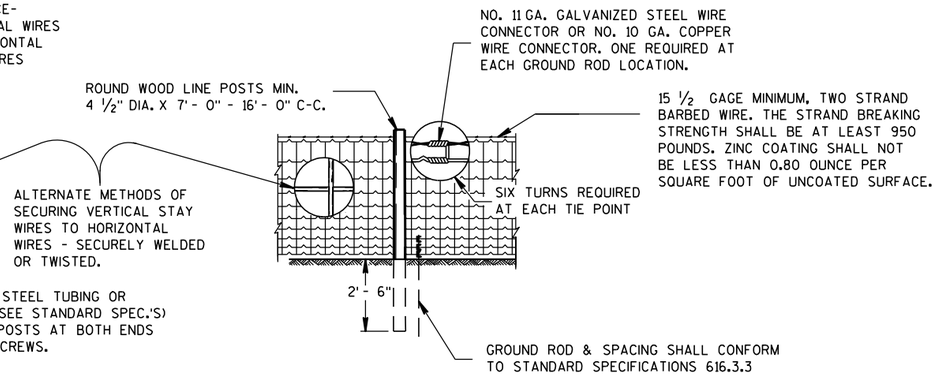
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED 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.



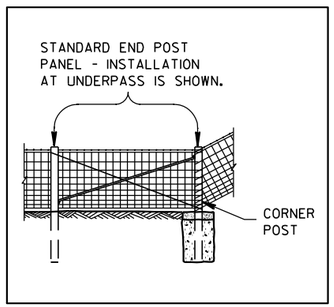
NOTE: FENCE CORNERS - ABOVE ILLUSTRATION SHOWS ONE LEG OF FENCE CONSTRUCTION AT FENCE CORNER. THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.

END OR CORNER POSTS ASSEMBLY

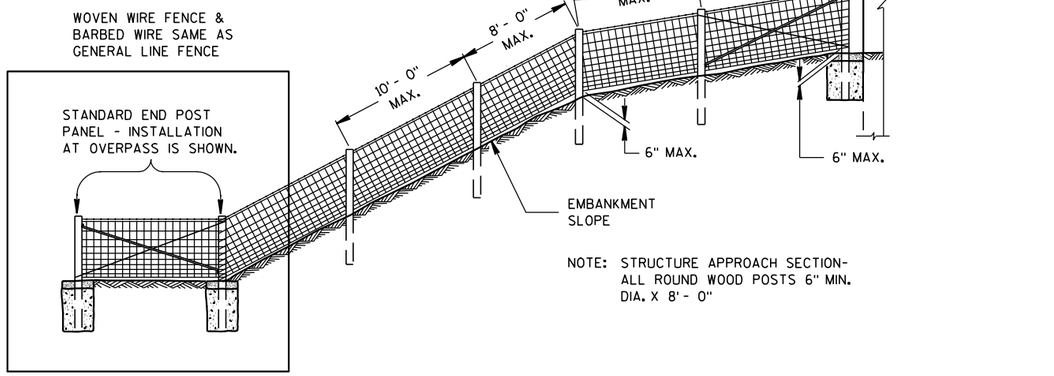


LINE FENCE CONSTRUCTION

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

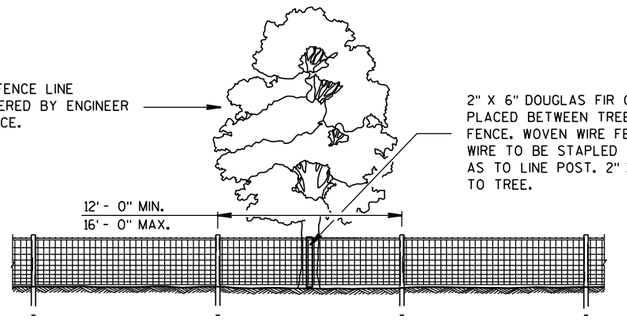
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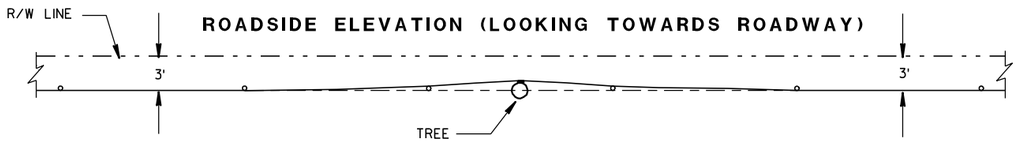
S.D.D. 15 B 1-8a

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.

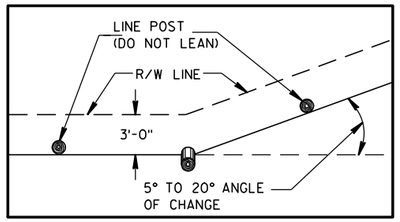


ROADSIDE ELEVATION (LOOKING TOWARDS ROADWAY)

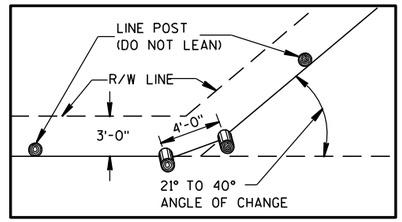


PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



PLAN VIEW
SINGLE POST CORNER

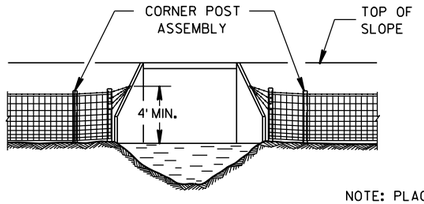


PLAN VIEW
DOUBLE POST CORNER

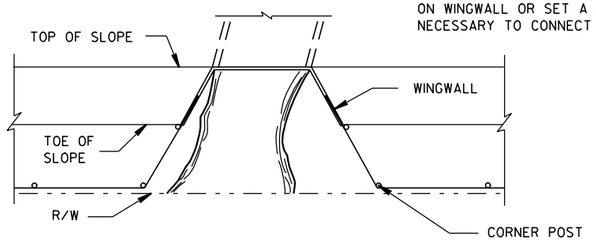
RIGHT OF WAY LINE CHANGE 40° AND LESS

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.

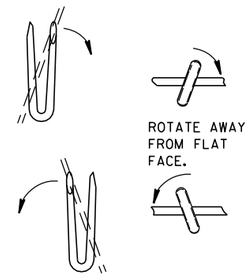
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



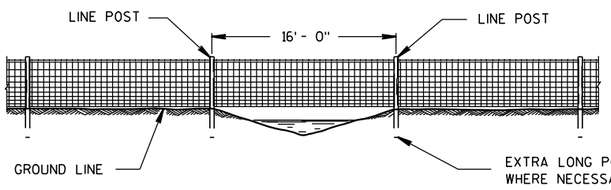
NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



FENCE INSTALLATION TO WINGWALLS

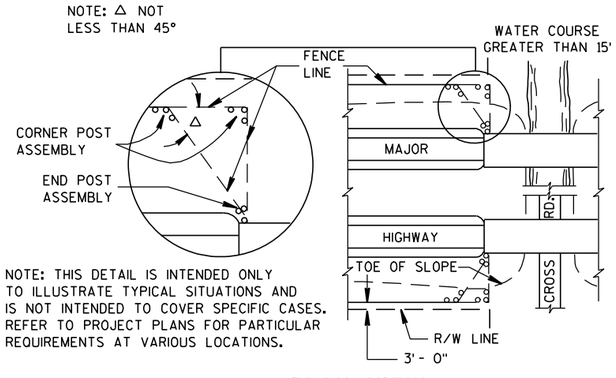


LINE POST



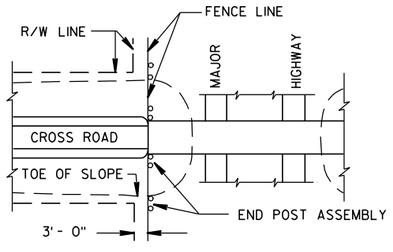
FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH

NOTE: △ NOT LESS THAN 45°



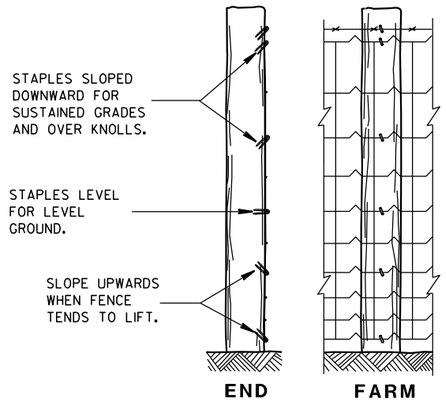
NOTE: THIS DETAIL IS INTENDED ONLY TO ILLUSTRATE TYPICAL SITUATIONS AND IS NOT INTENDED TO COVER SPECIFIC CASES. REFER TO PROJECT PLANS FOR PARTICULAR REQUIREMENTS AT VARIOUS LOCATIONS.

PLAN VIEW
MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW
MAJOR HIGHWAY UNDERPASS

NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.



END ELEVATION

FARM SIDE ELEVATION

FENCE MOUNTING DETAIL

FENCE LOCATION AT STRUCTURES

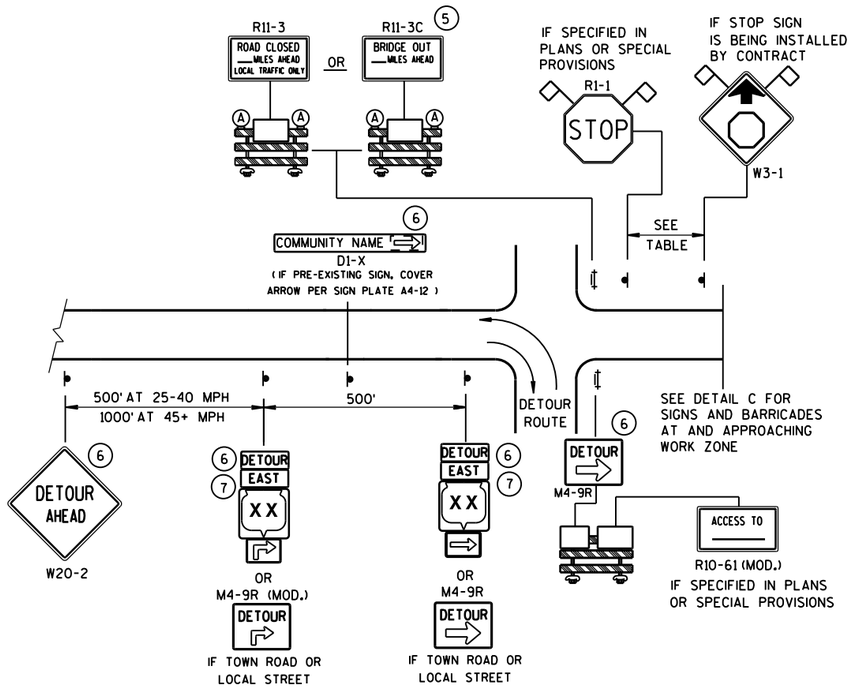
FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/4/2008
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS [illegible] ENGINEER
FHWA

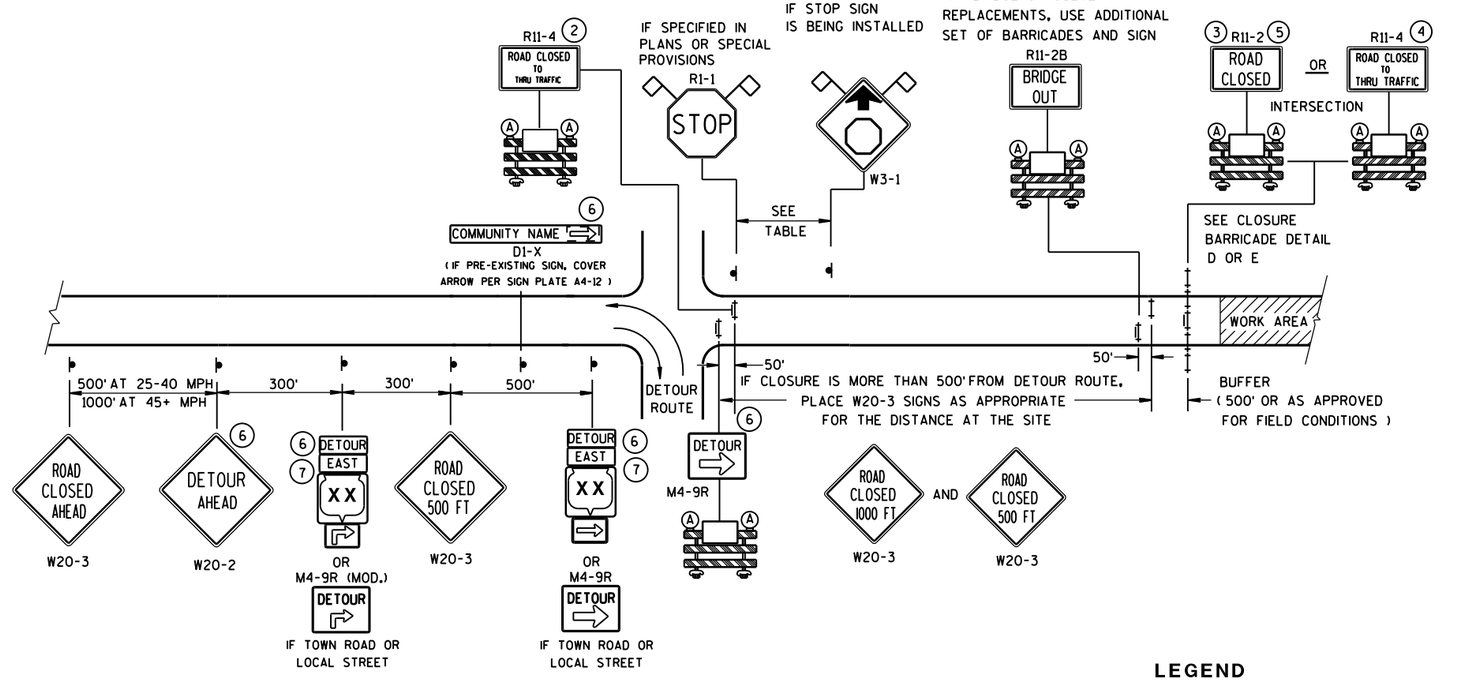
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S.D.D. 15 B 1-8b



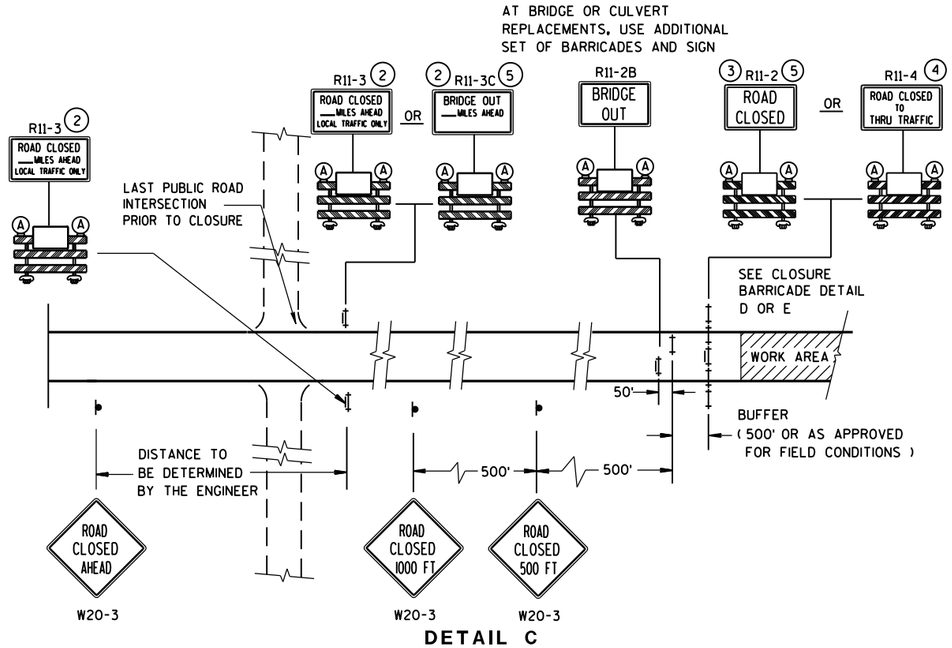
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "**b**" FOR GENERAL NOTES AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

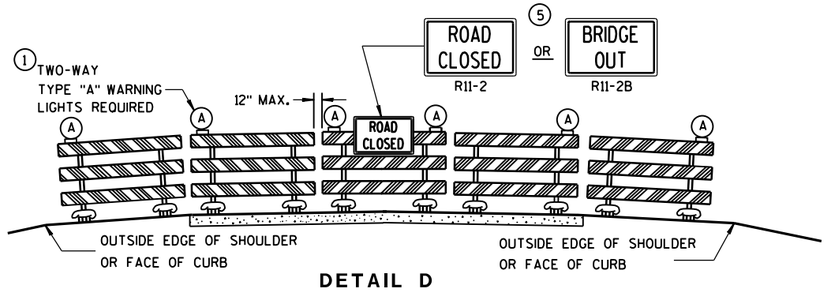
8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

6

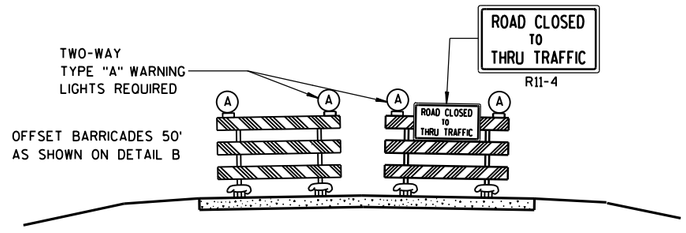
S.D.D. 15 C 2-5a



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 BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE 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, 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". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- 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 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 LANE 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 MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 C 2-5b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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

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

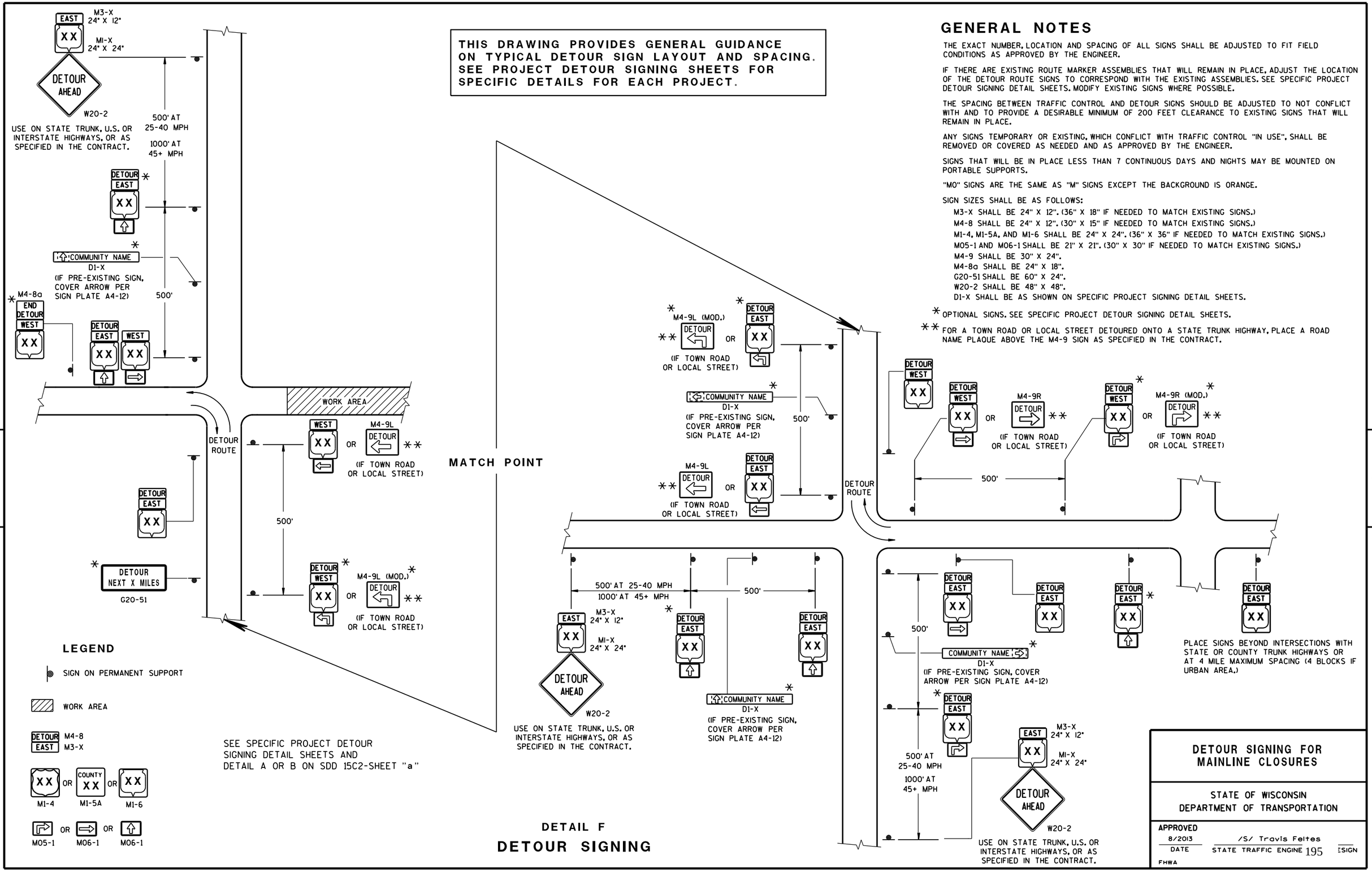
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD 15C2-SHEET "a"

DETAIL F

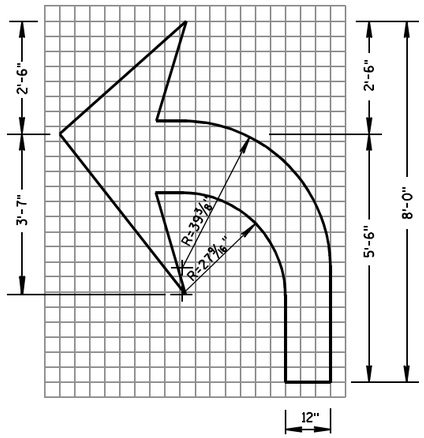
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

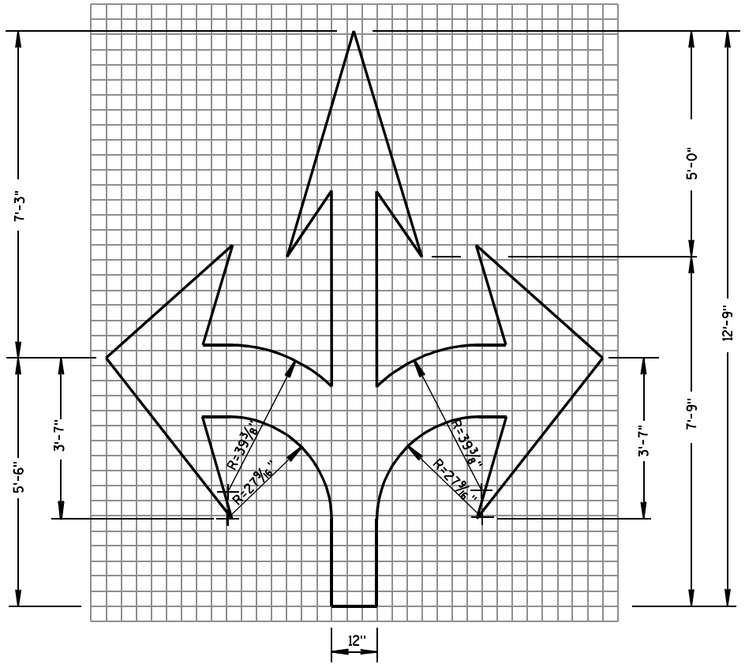
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

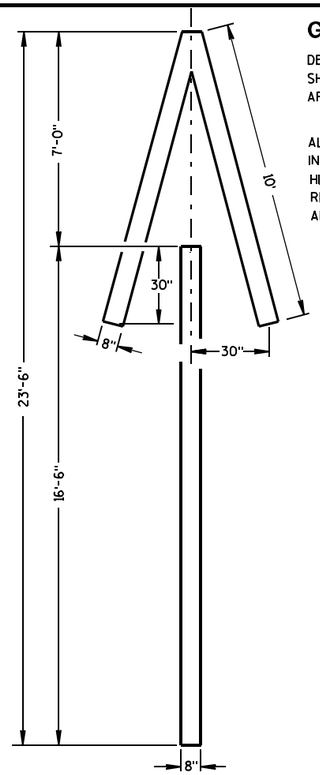
6 S.D.D. 15 C 2-5c



TYPE 2



TYPE 6

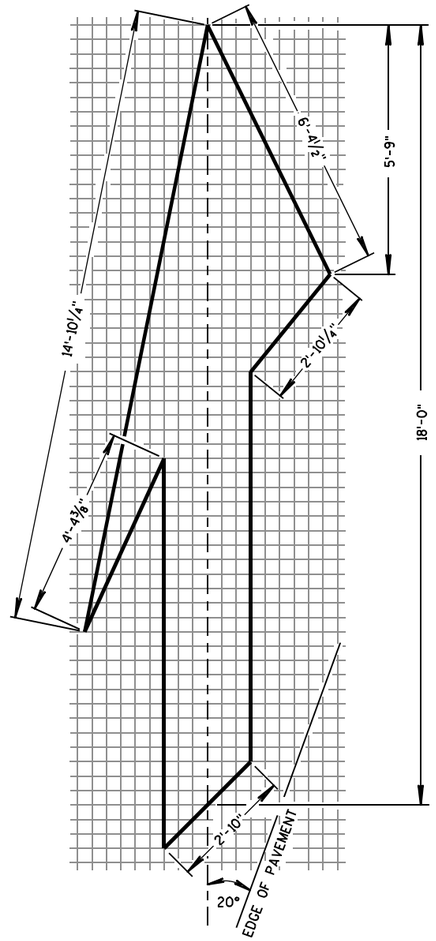


TYPE 4

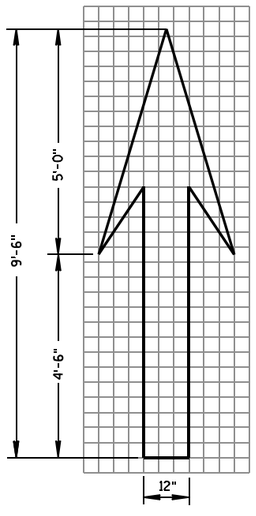
GENERAL NOTES

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.

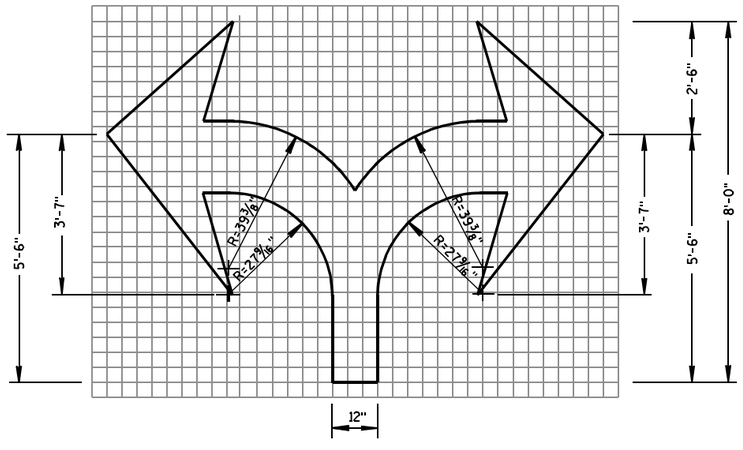
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



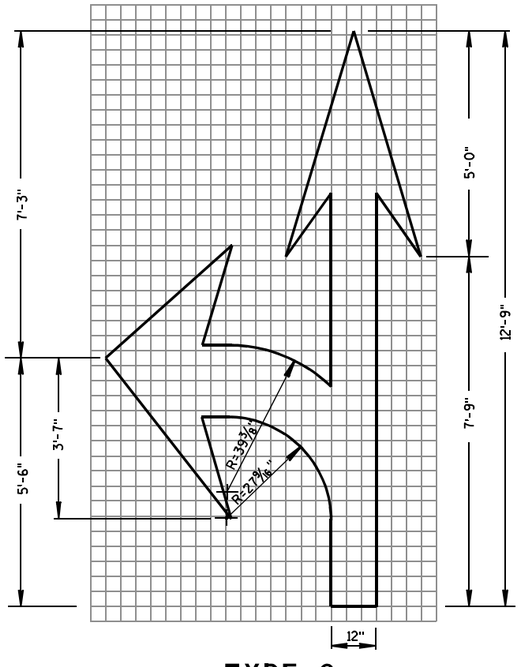
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

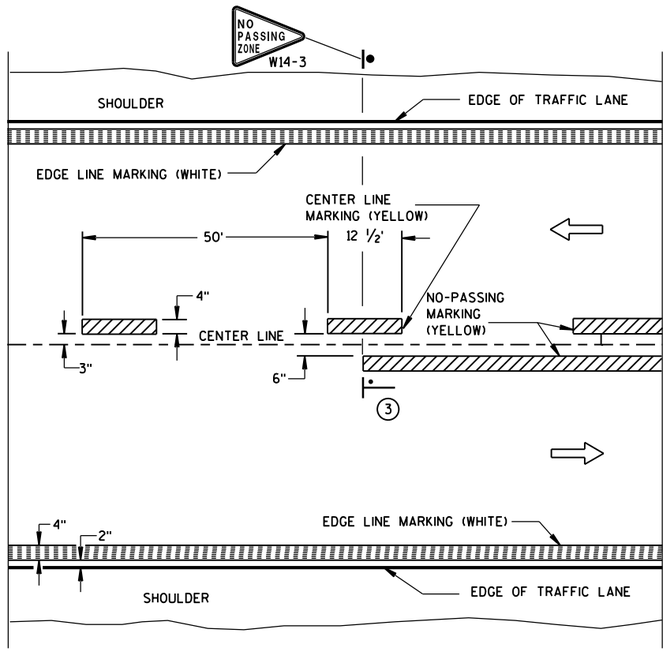
FHWA

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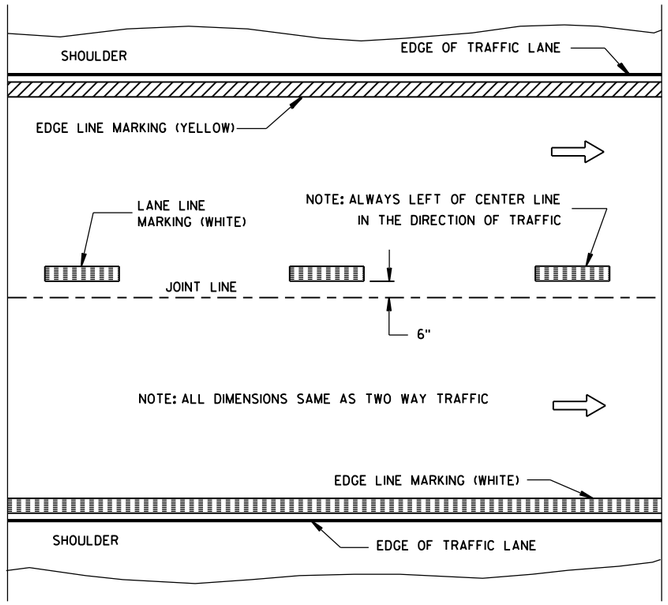
S.D.D. 15 C 7-12c

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S.D.D. 15 C 7-12c

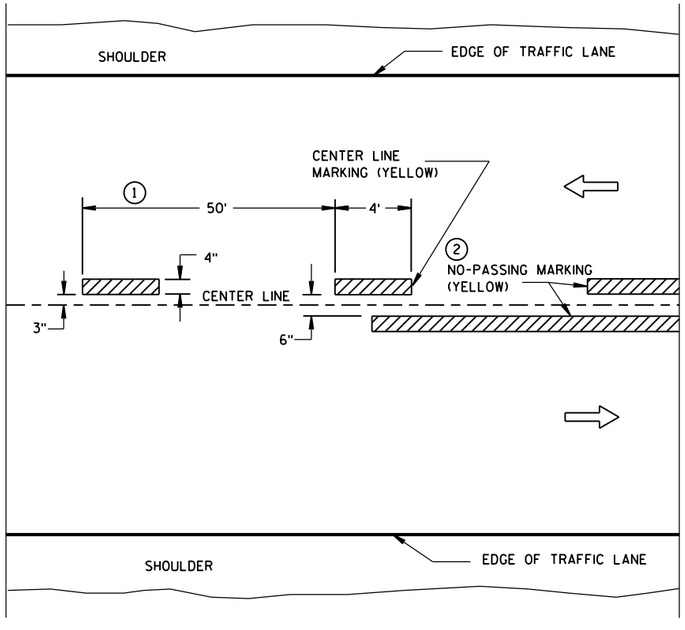


TWO WAY TRAFFIC

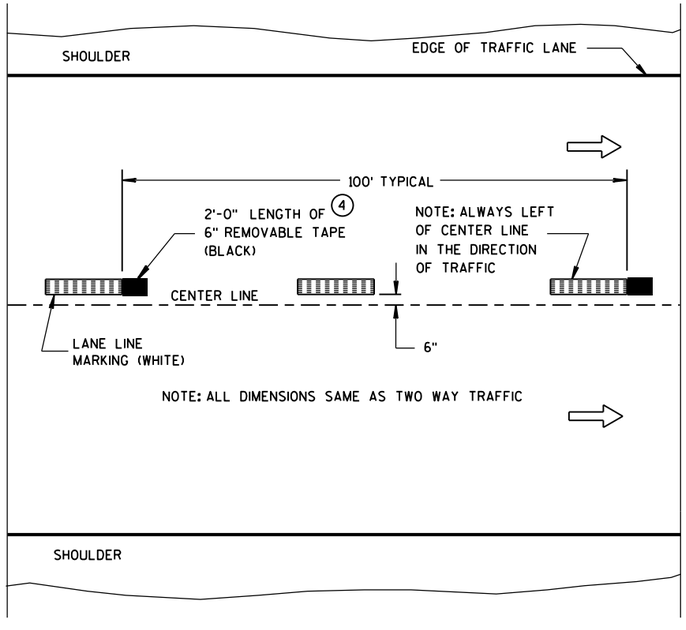


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

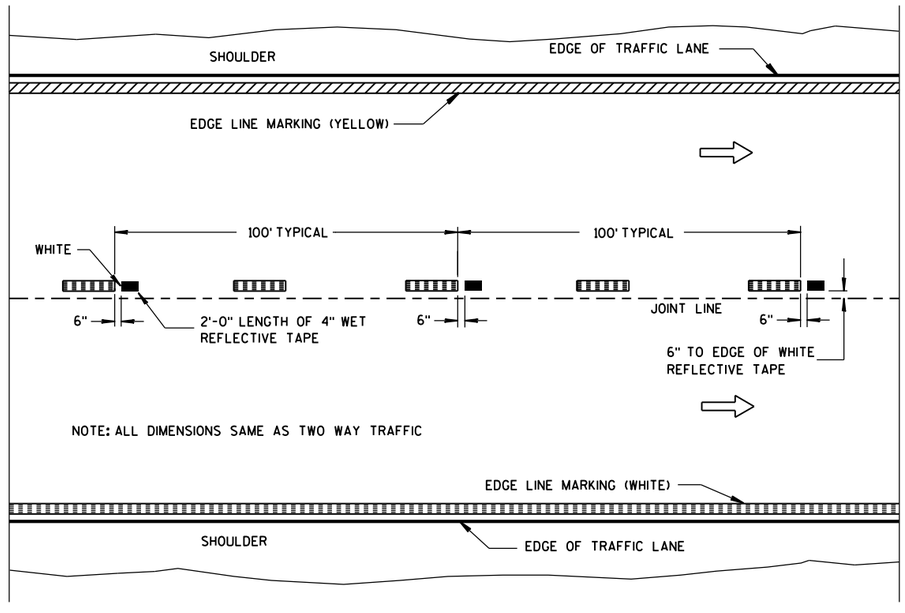
GENERAL NOTES

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

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

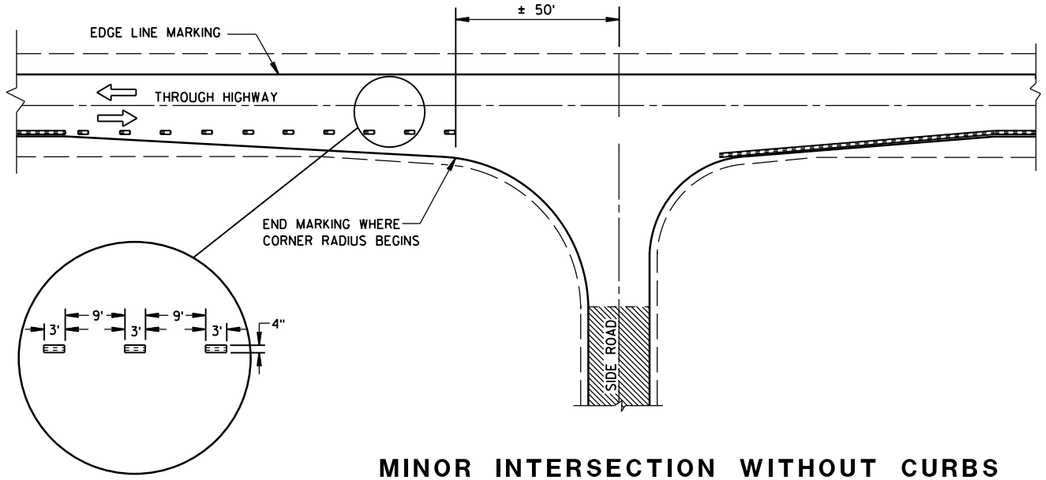
APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E
FHWA

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S.D.D. 15 C 8-16a

6

S.D.D. 15 C 8-16a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED 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) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

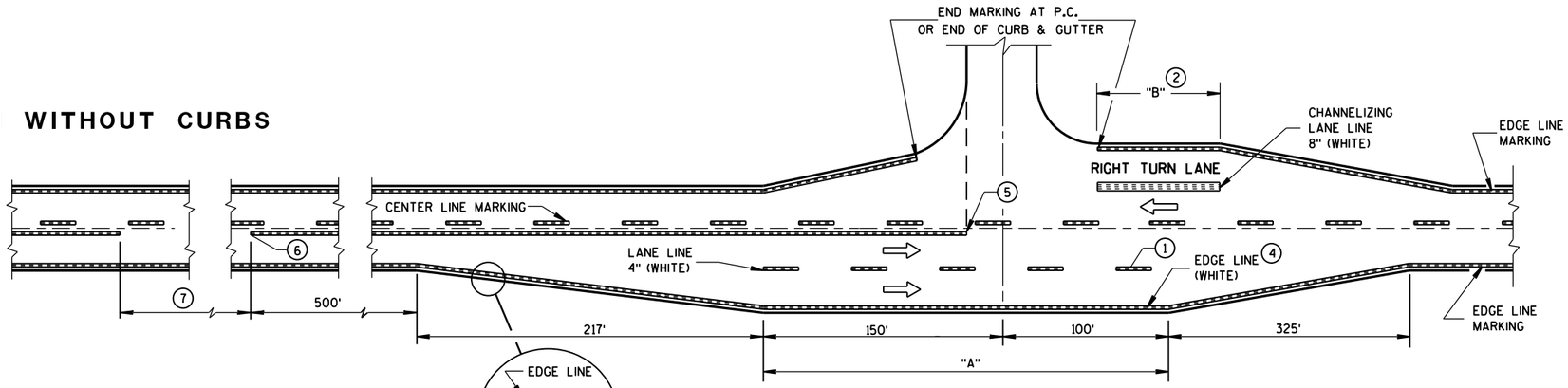
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

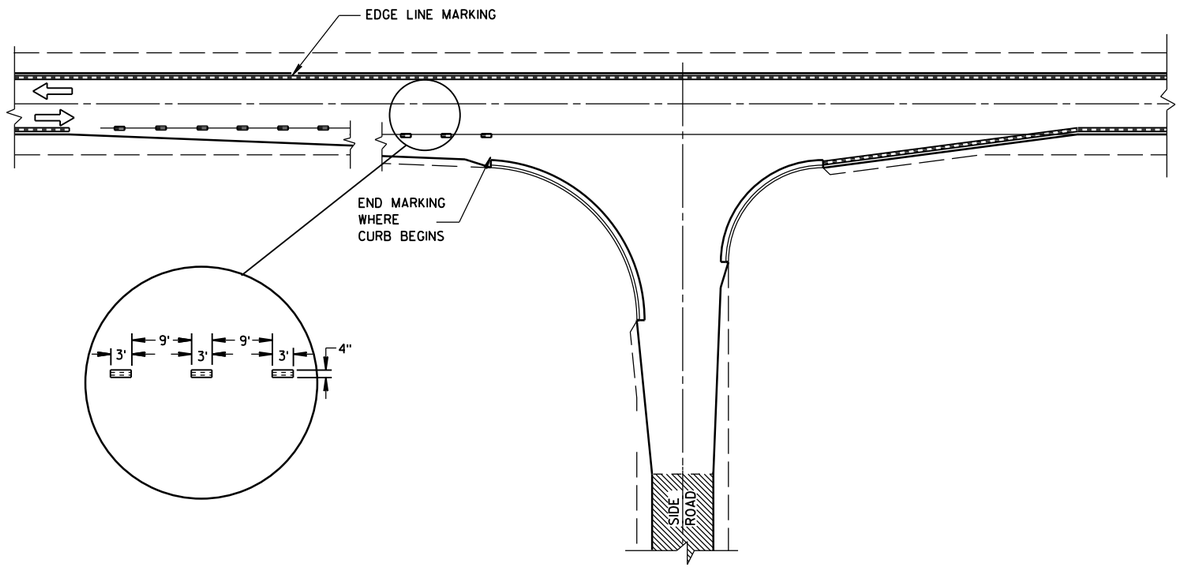
(7)

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



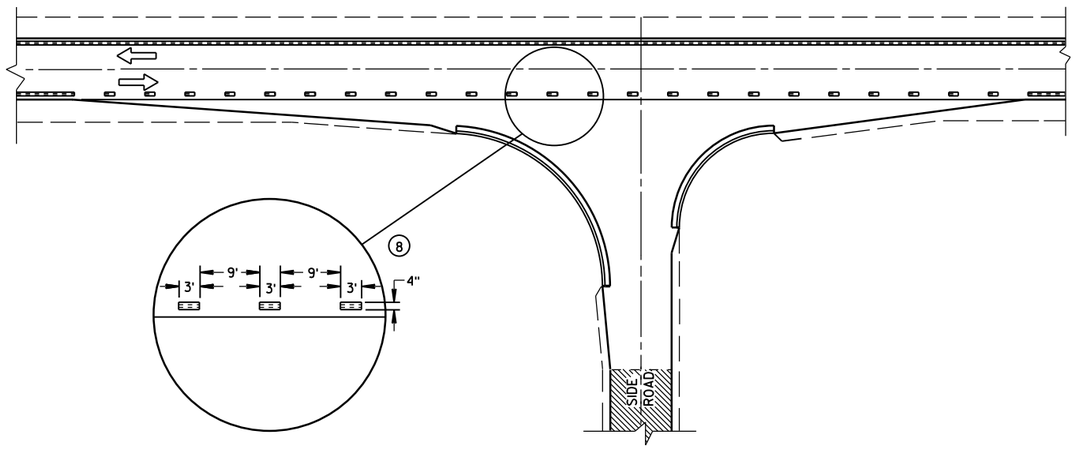
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

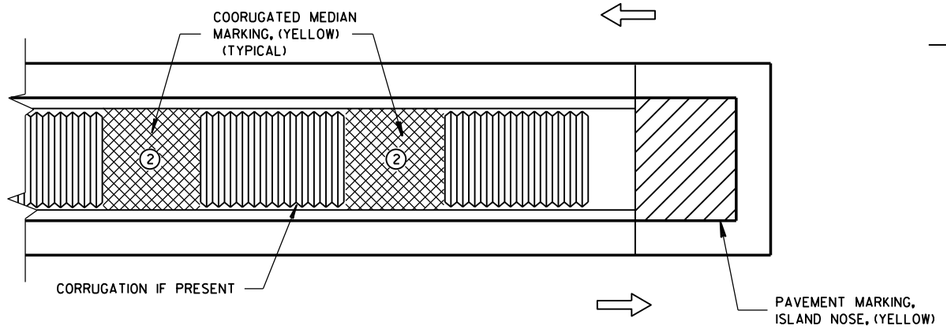
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 198

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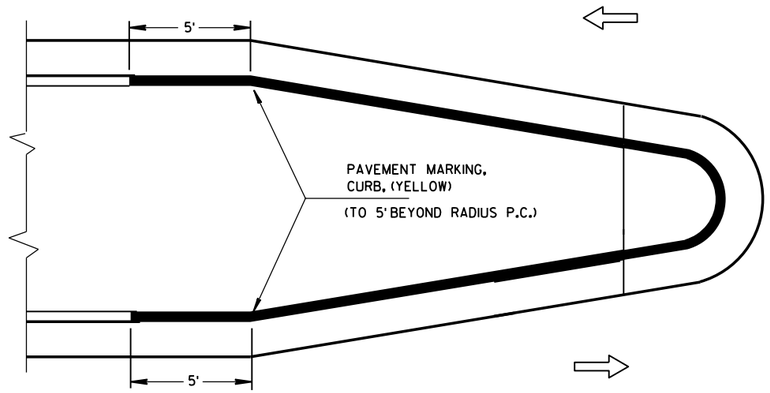
S.D.D. 15 C 8-16b

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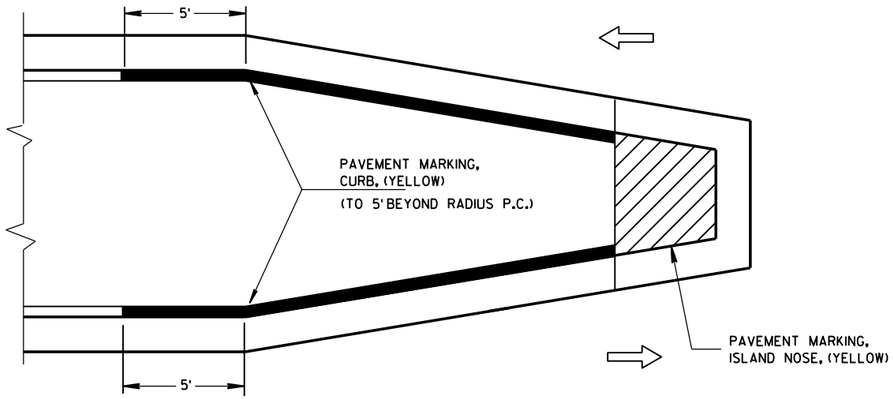
S.D.D. 15 C 8-16b



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

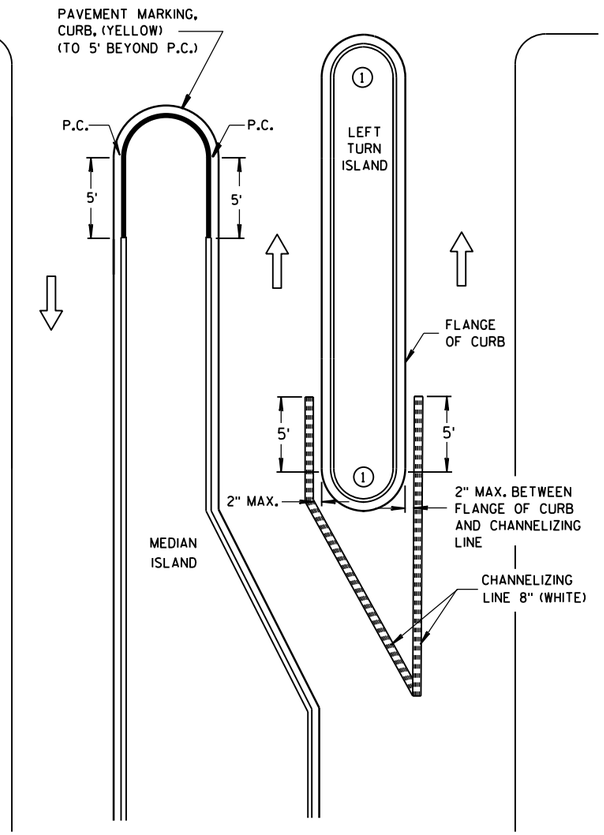


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

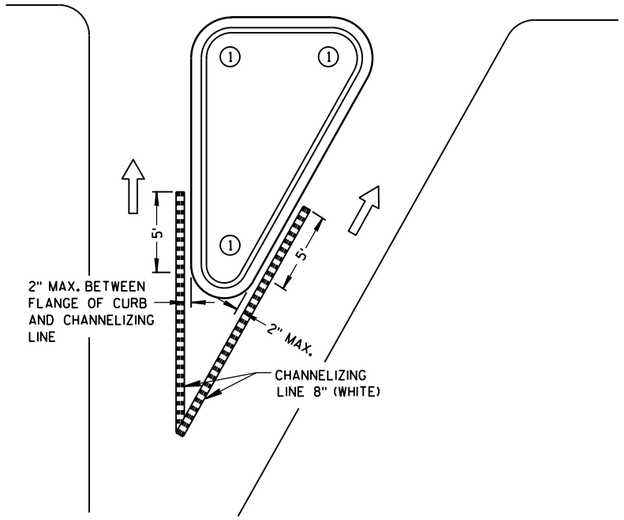


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

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



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 C 8-16f

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S.D.D. 15 C 8-16f

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

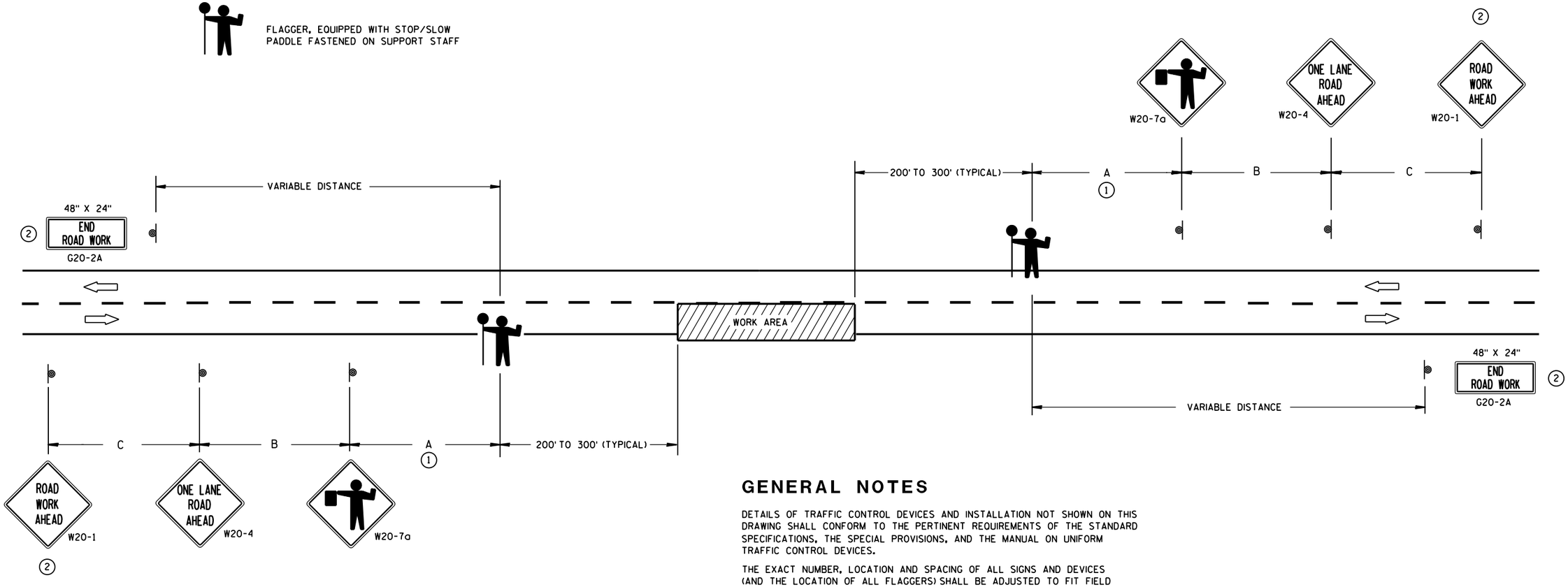
SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER

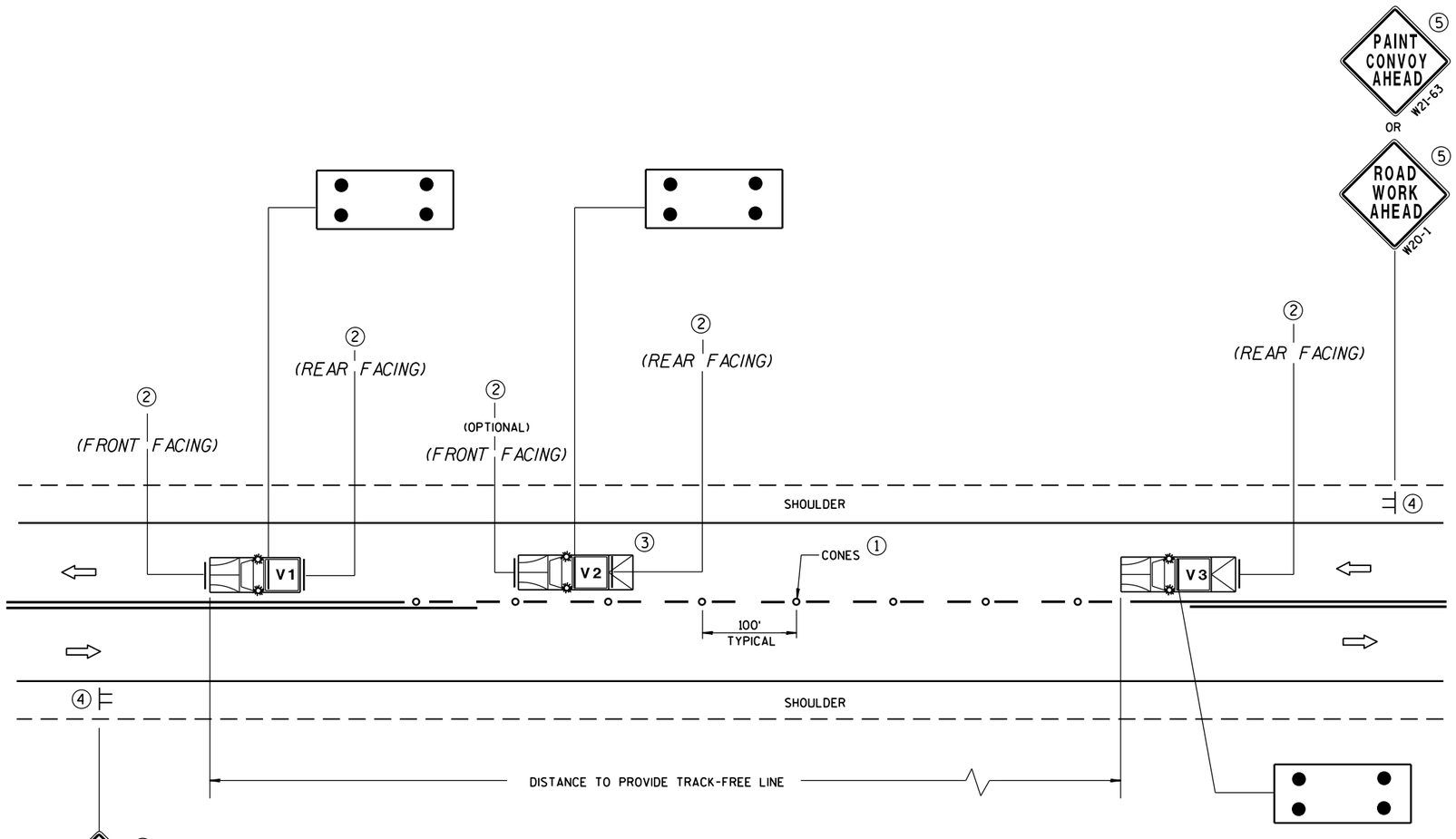
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S.D.D. 15 C 12-4



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

- **V1** LEAD VEHICLE
- **V2** SHADOW VEHICLE
- **V3** TRAIL VEHICLE WITH TMA
- **TMA** TRUCK-MOUNTED ATTENUATOR
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- CONES
- FLASHING ARROW PANEL (CAUTION)

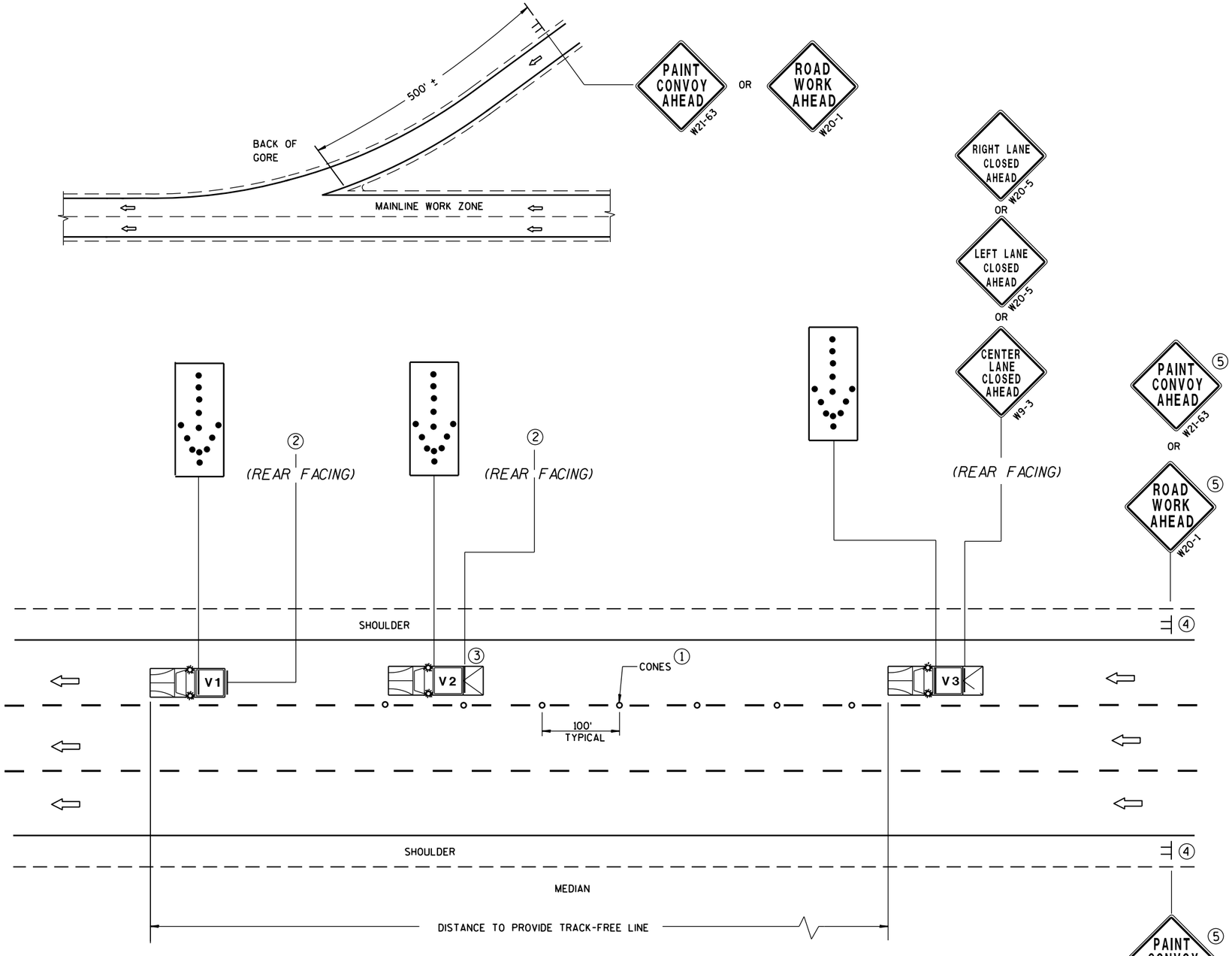
MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/3/2013 DATE	/S/ Travis Feltes STATE TRAFFIC E
FHWA	

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S.D.D. 15 C 19-2a

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S.D.D. 15 C 19-2a



MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE DIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR EDGELINE OR LANELINE MARKING FOR MULTILANE DIVIDED ROADWAYS.

① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.

④ SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.

⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (MERGE)

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/3/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC EN

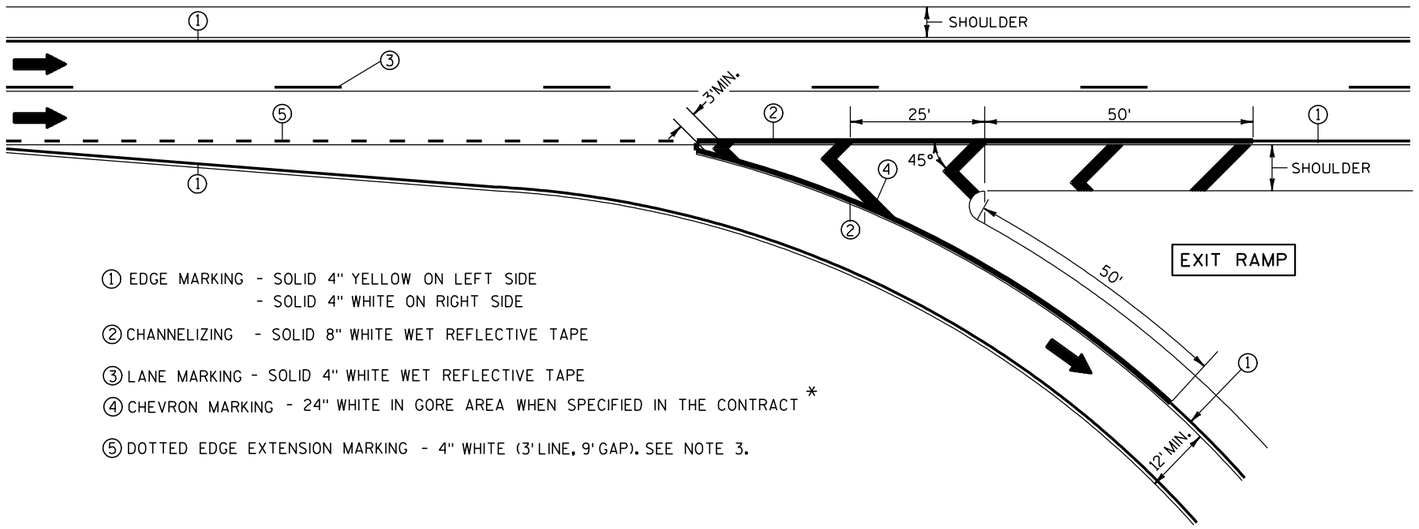
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S.D.D. 15 C 19-2c

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S.D.D. 15 C 19-2c



① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE
- SOLID 4" WHITE ON RIGHT SIDE

② CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE

③ LANE MARKING - SOLID 4" WHITE WET REFLECTIVE TAPE

④ CHEVRON MARKING - 24" WHITE IN GORE AREA WHEN SPECIFIED IN THE CONTRACT *

⑤ DOTTED EDGE EXTENSION MARKING - 4" WHITE (3' LINE, 9' GAP). SEE NOTE 3.

NOTES:

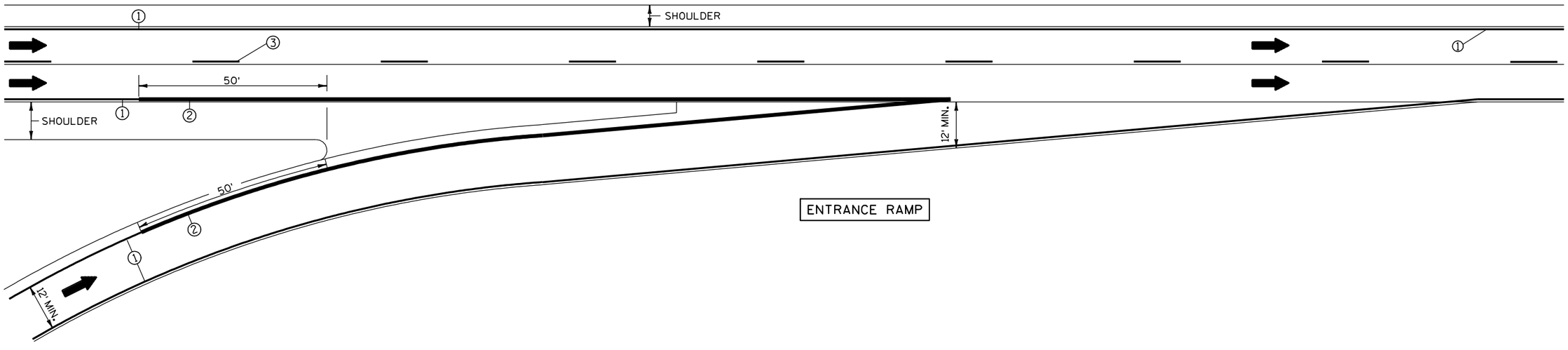
1. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.

2. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.

3. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

4. RETRACE EXISTING DIAGONAL MARKINGS.

* REFER TO DESIGN NOTES.



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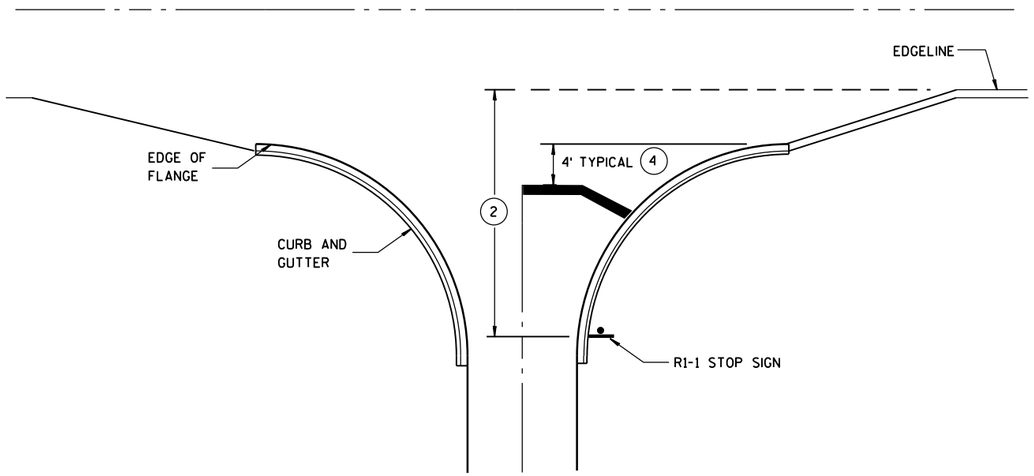
S.D.D. 15 C 31-1a

PAVEMENT MARKING
(RAMPS AND GORES)

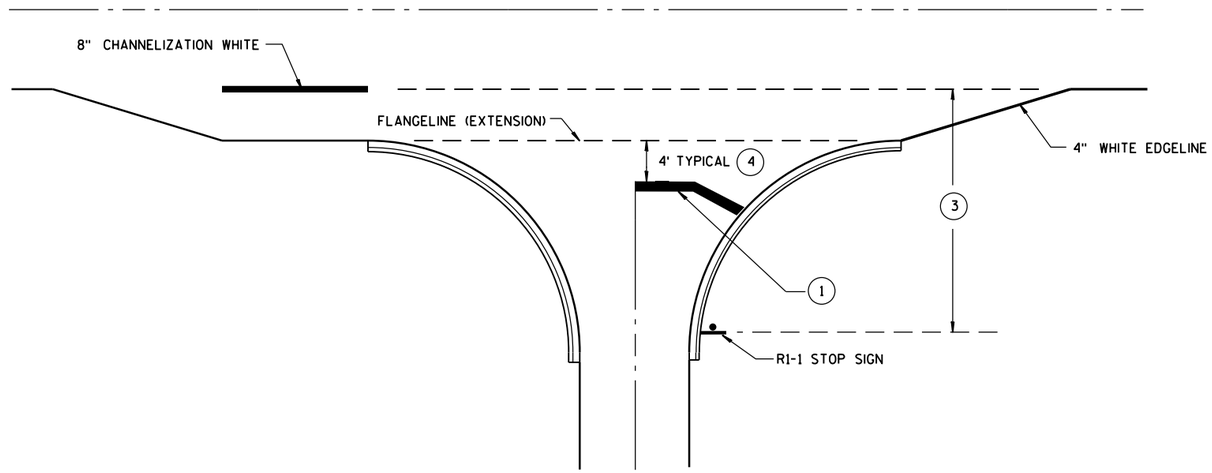
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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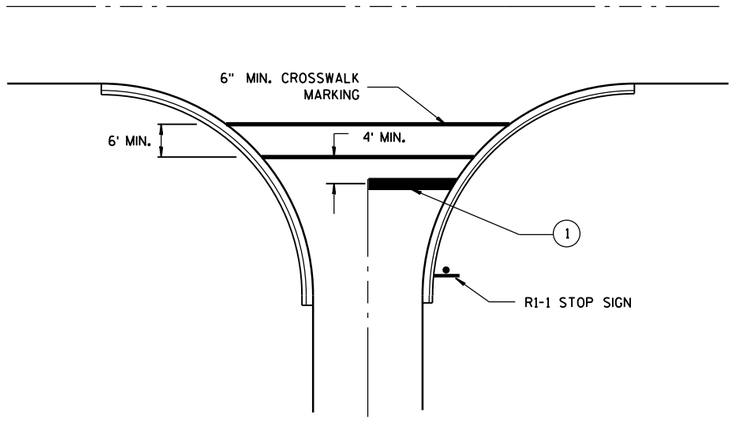
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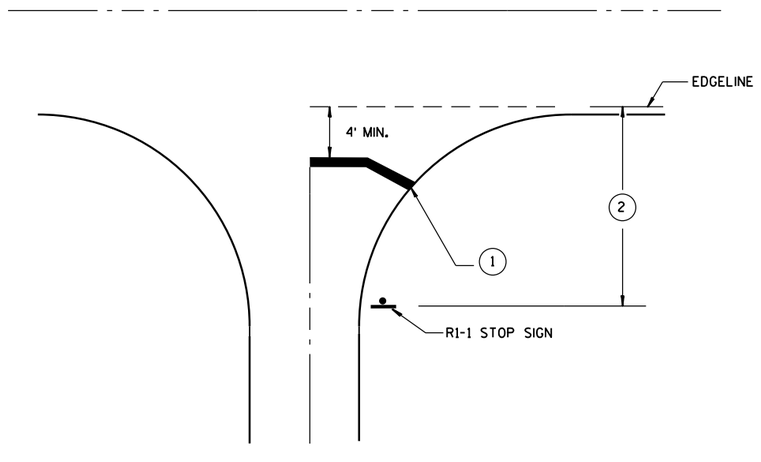
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



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

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.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

6

S.D.D. 15 C 33-1

LEGEND

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

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 CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" 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.

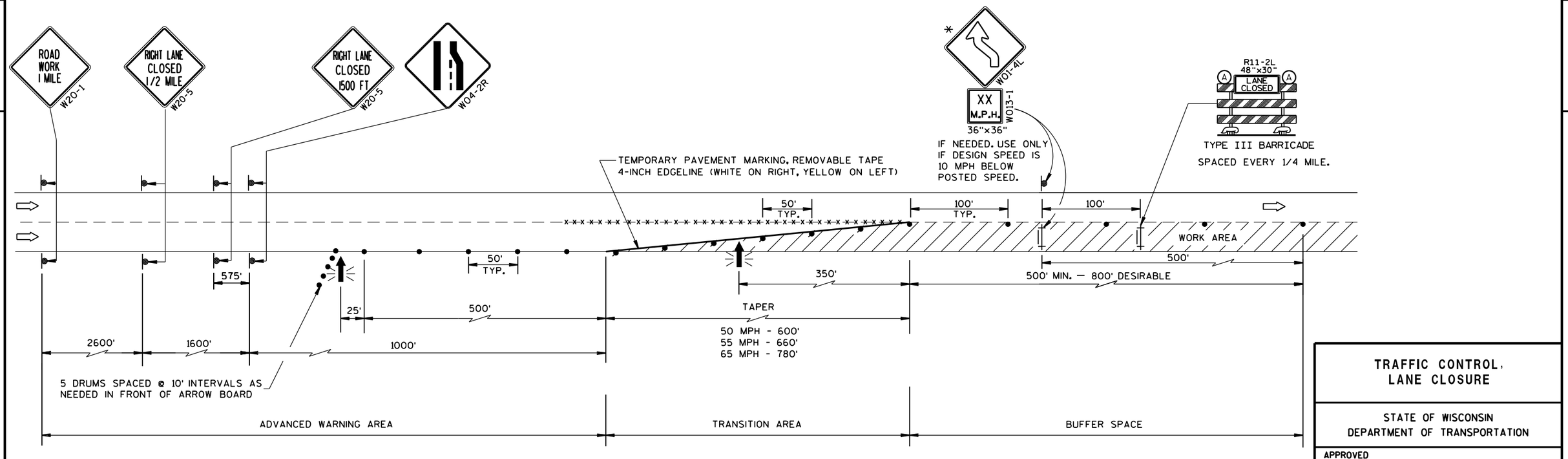
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL, LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 D 12-5a

LEGEND

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

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 CLOSING RIGHT LANE - REVERSE FOR CLOSING 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.

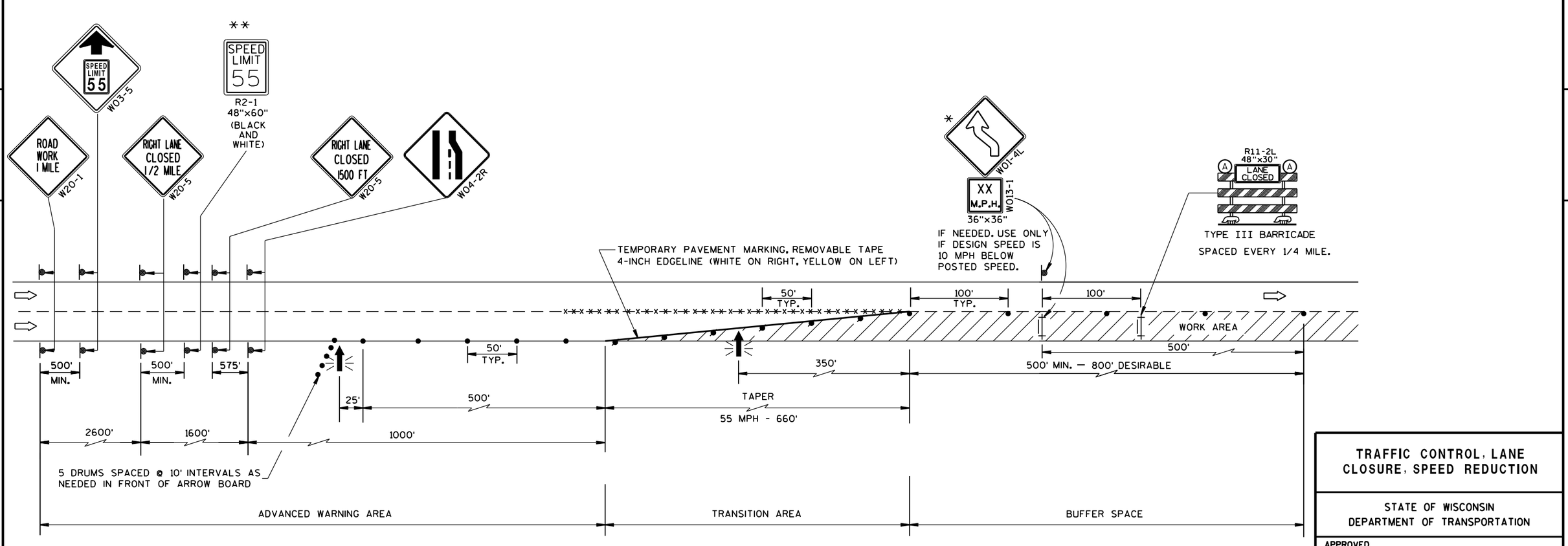
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.

** A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. THERE SHOULD BE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 2 OR 3 MILES. INCLUDE A 65 MPH RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIREABLE) BEYOND THE "END OF ROADWORK" SIGN.



TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

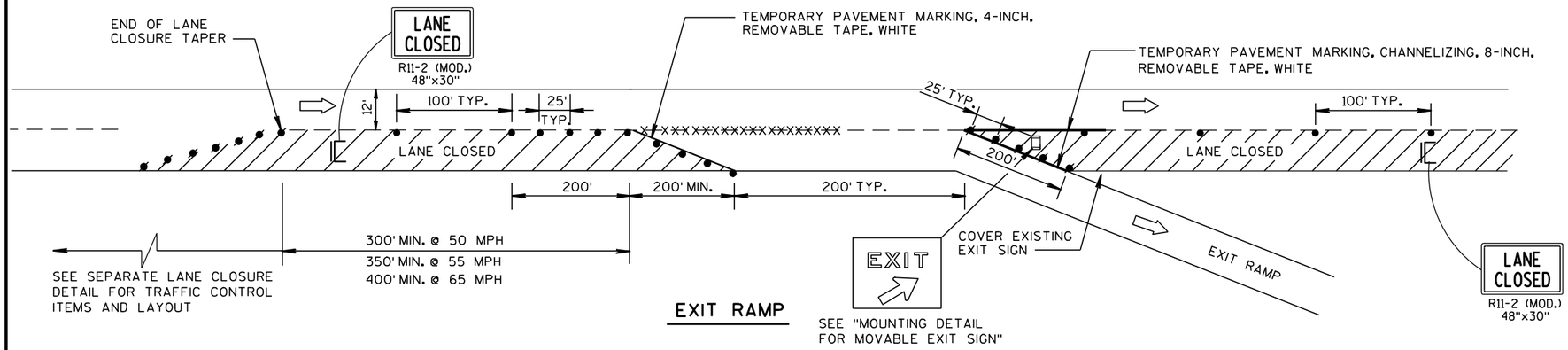
APPROVED
Feb. 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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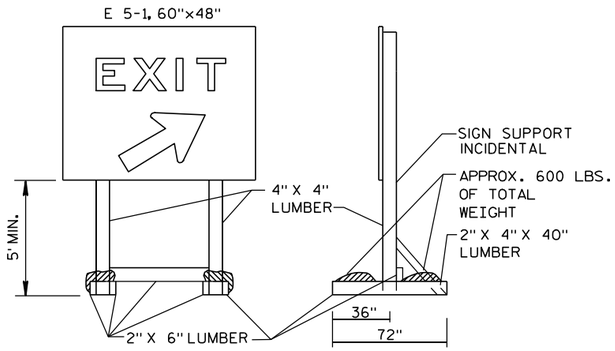
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S.D.D. 15 D 12-5b

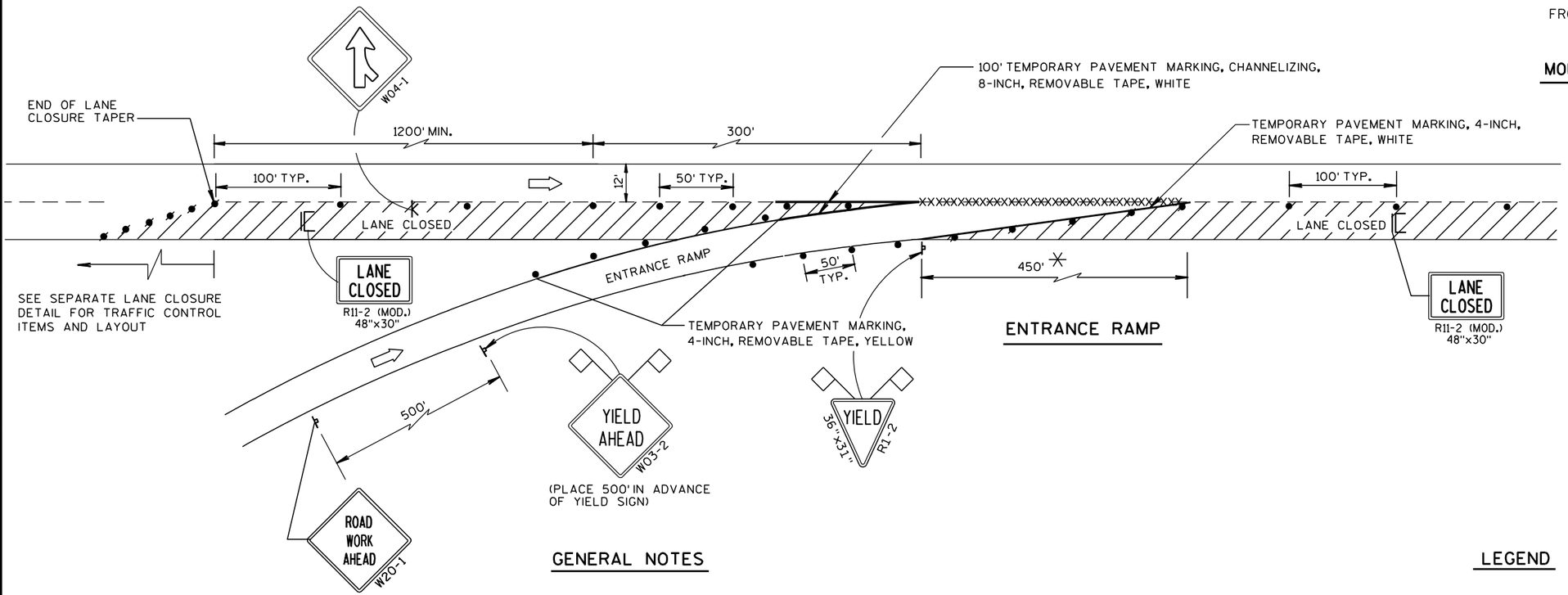


EXIT RAMP



NOTE: ALL LUMBER DIMENSIONS ARE NOMINAL

MOUNTING DETAIL FOR MOVABLE EXIT SIGN



ENTRANCE RAMP

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"x48" 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 R11-2 (MOD.) "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

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.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE 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 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

✳ LENGTH OF OPENING MAY BE REDUCED TO 150 FEET DURING STAGING OF WORK IN IMMEDIATE AREA OF RAMP TAPER.

LEGEND

- POST MOUNTED SIGN
- SIGN ON PORTABLE SUPPORT
- TRAFFIC CONTROL, DRUM
- TRAFFIC CONTROL, DRUM WITH WARNING LIGHT, TYPE C (STEADY-BURN)
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE (8' EQUIVALENT) WITH SIGN
- FLAGS, 16"x16" MIN., ORANGE
- DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/24/2000
DATE
/S/ Chester J. [illegible]
CHIEF SIGNS AND MARKING ENGINEER
FHWA

S.D.D. 15 D 15-1

S.D.D. 15 D 15-1

LEGEND

- SIGN ON PERMANENT SUPPORT
- REMOVING PAVEMENT MARKING
- TYPE III BARRICADE WITH ATTACHED SIGN
- CONCRETE BARRIER TEMPORARY PRECAST
- FLAGS, 16" x 16" MIN., (ORANGE)
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- ASPHALTIC PAVEMENT WIDENING
- DIRECTION OF TRAFFIC
- 4" X 6" WOOD POST
- TEMPORARY SIGNAL WITH BACKPLATE AND 12-INCH LENSES ON BREAKAWAY POLE



W057-52
36"x24"

INSTALL ON EACH APPROACH AT THE CLOSEST INTERSECTION WITH A STATE OR COUNTY TRUNK HIGHWAY, OR AS DIRECTED BY THE ENGINEER. WIDTH ON SIGN TO BE APPROX. 1-FOOT LESS THAN AVAILABLE WIDTH. (OMIT IF AVAILABLE WIDTH IS MORE THAN 16 FEET.)

GENERAL NOTES

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

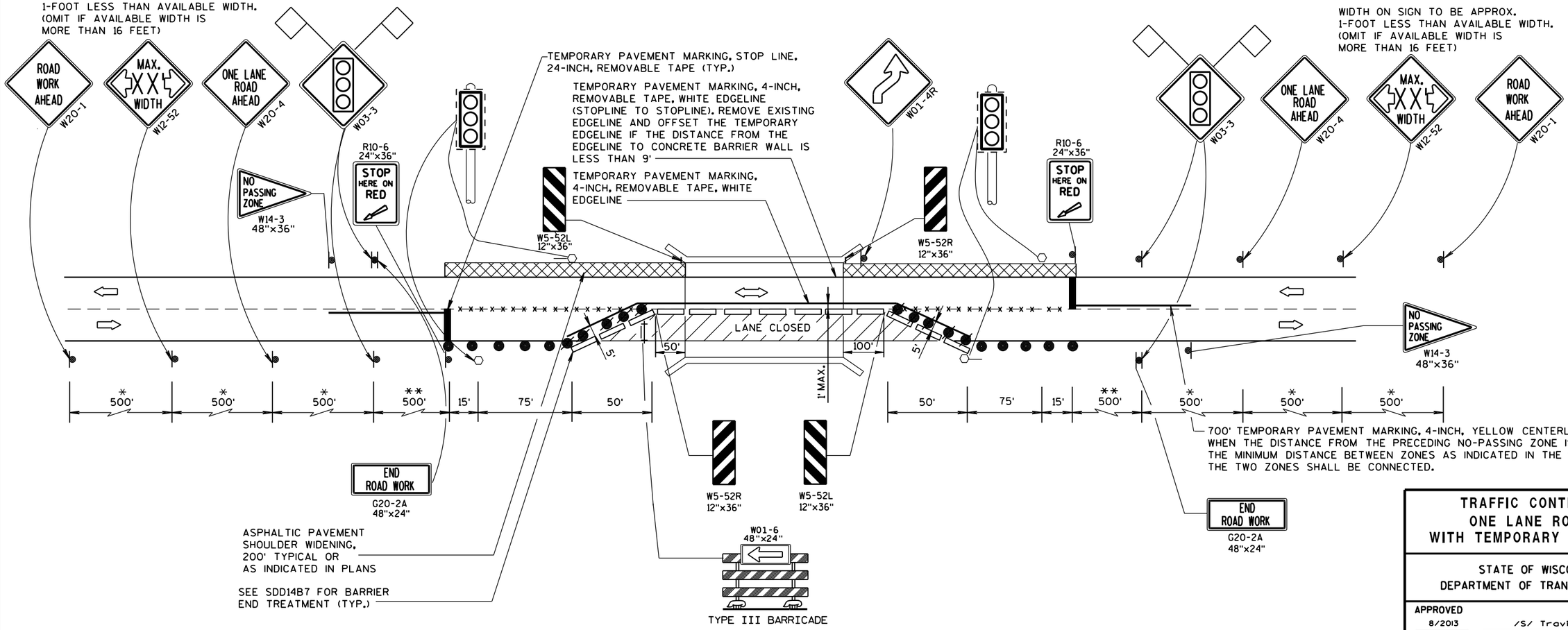
SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

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.

PLACE TEMPORARY PAVEMENT MARKING EDGELINE AND CENTERLINE, AND REMOVE EXISTING PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS OR AS NOTED ON DETAIL.

* 500-FOOT SPACING SHOWN IS FOR ROADWAYS WITH A PRE-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350-FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200-FOOT TYPICAL SPACING.

** USE 300' SPACING IF PRE-CONSTRUCTION REGULATORY SPEED LIMIT IS 35 MPH OR LESS.



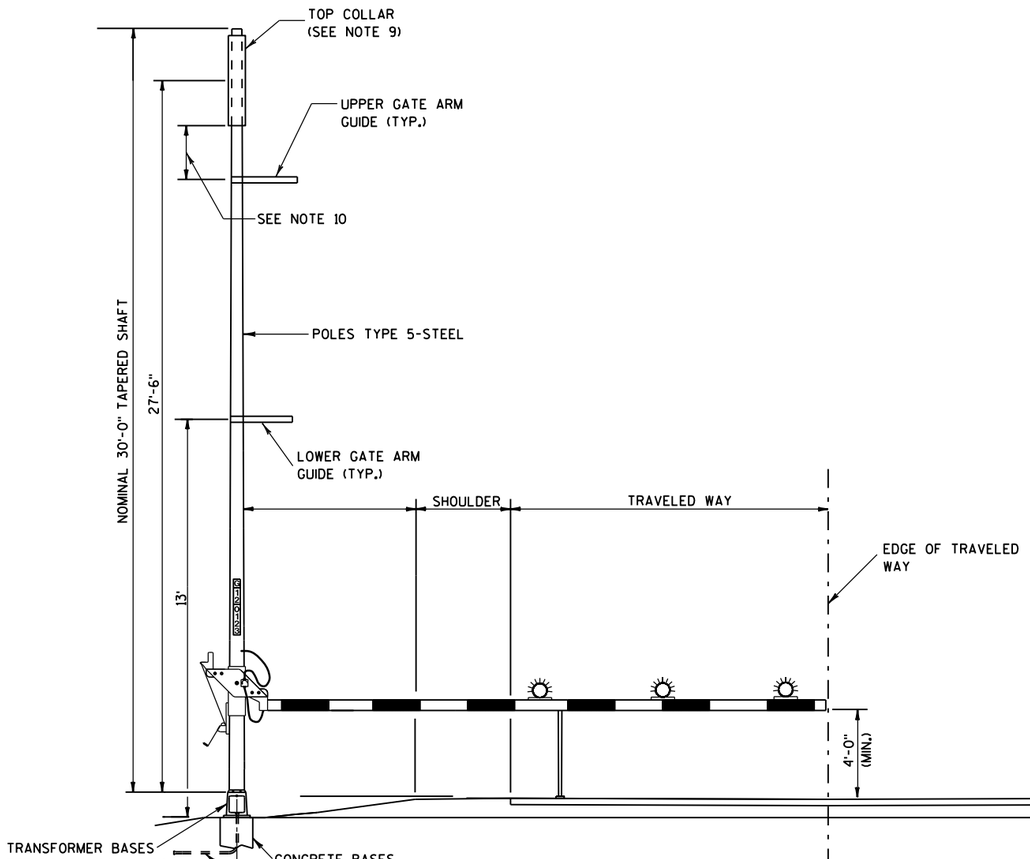
TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

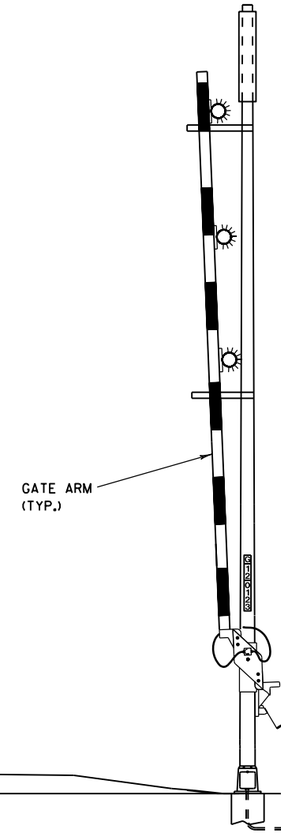
APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

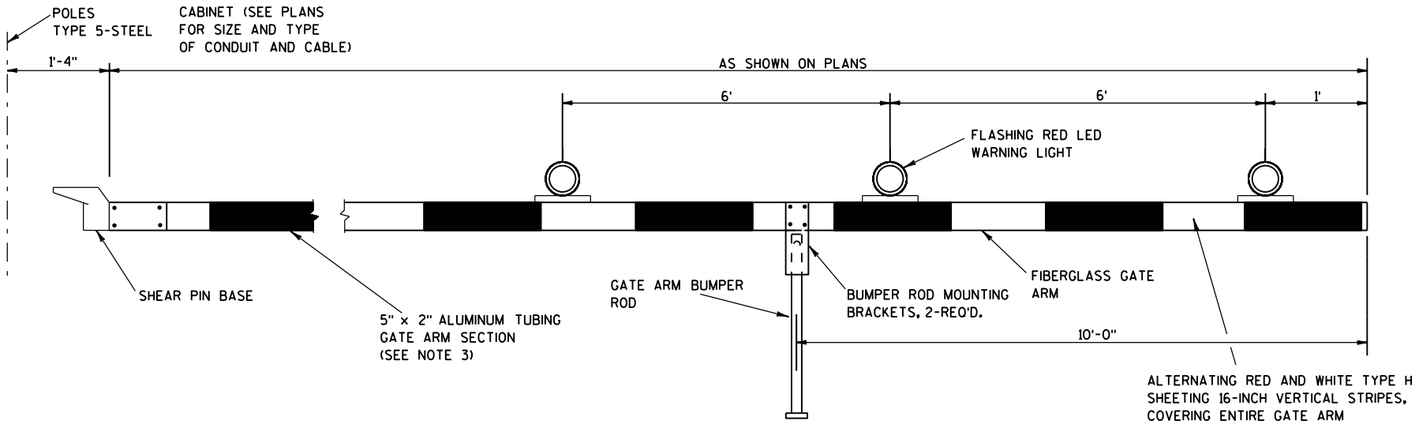
S.D.D. 15 D 33-3



TYPICAL LOWERED POSITION



TYPICAL RAISED POSITION

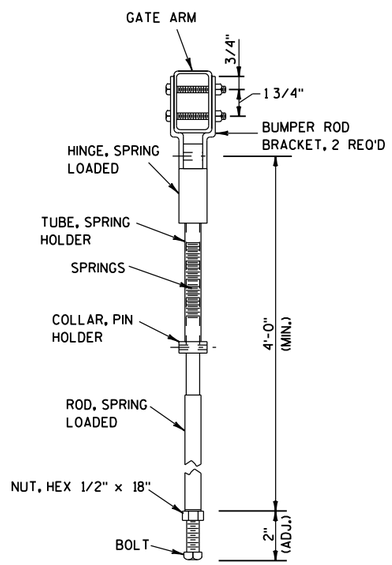


GATE DETAIL

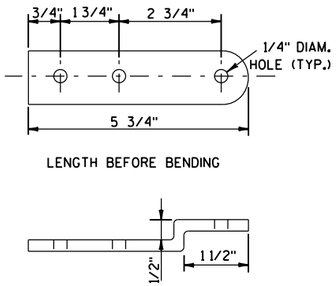
(SOLAR POWER OPTION)

GENERAL NOTES

1. THE LOCATION OF RAMP CLOSURE GATES AND MOUNTING HEIGHT OF GATE ARM PIVOT SHALL BE VERIFIED BY THE ENGINEER.
2. HEIGHT OF GATE ARM GUIDES MAY BE VARIED AS REQUIRED FOR WARNING LIGHT CLEARANCE.
3. FIBERGLASS/ALUMINUM GATE ARM AND SHEAR PIN BASE SHALL BE SUPPLIED BY THE SAME VENDOR.
4. GATE ARM TO BE MOUNTED ON PROPOSED POLE AS INDICATED ON THE PLANS. PROPOSED POLE SHALL BE TYPE 5 POLE.
5. LOCATION OF THE CONCRETE BASE AND LENGTH OF THE GATE ARM WILL BE VERIFIED BY THE ENGINEER TO ENSURE ADEQUATE COVERAGE OF THE TRAVELED LANE.
6. GATE PIVOTS, SUPPORTS AND GUIDES, AND ALL ASSOCIATED HARDWARE SHALL BE GALVANIZED. ALL ROUGH EDGES AND BURRS SHALL BE GROUND SMOOTH PRIOR TO GALVANIZING.
7. ALL EXPOSED BOLT THREADS SHALL BE PAINTED WITH TWO COATS OF ZINC RICH PAINT CONFORMING WITH THE REQUIREMENTS OF ASTM A 780.
8. ANY FIELD DAMAGE TO THE GALVANIZING SHALL BE REPAIRED WITH TWO COATS OF ZINC RICH PAINT CONFORMING WITH THE REQUIREMENTS OF ASTM A 780.
9. A STANDARD LIGHTING LUMINAIRE ARM MAY BE MOUNTED TO THE TYPE 5 POLE IN LIEU OF THE TOP COLLAR.
10. UPPER GATE ARM GUIDE IS TO BE INSTALLED 6 TO 12-INCHES BELOW THE BOTTOM OF THE TOP COLLAR.



GATE ARM BUMPER ROD DETAIL



BUMPER ROD MOUNTING
BRACKET DETAIL

RAMP GATE
SOLAR POWER

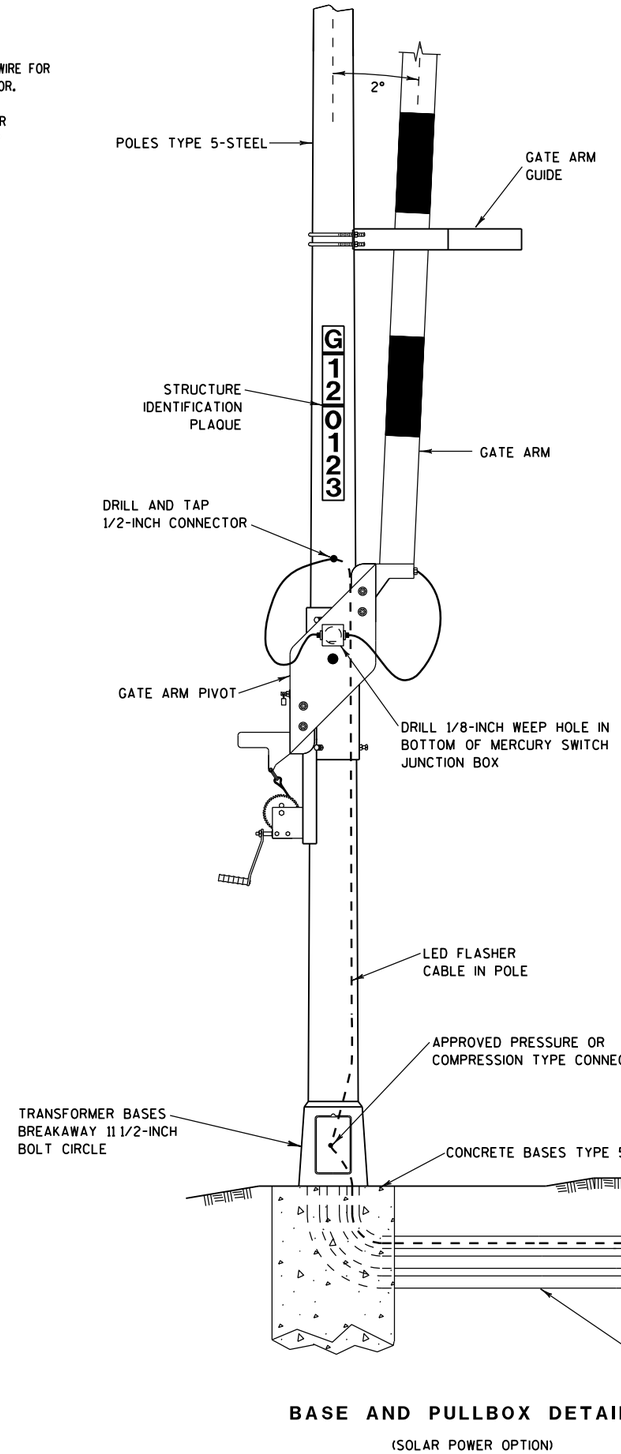
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6
S.D.D. 15 D 34-1a

WIRING NOTES

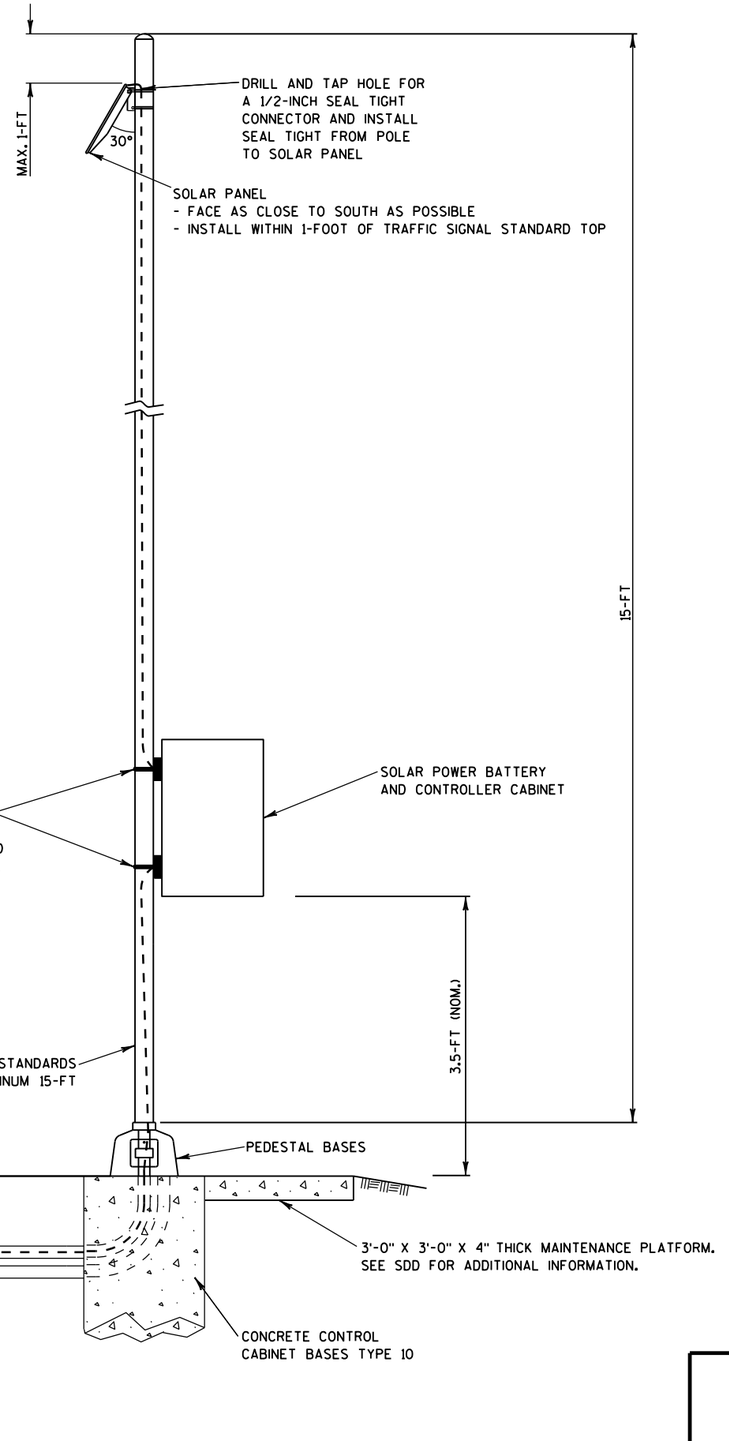
1. WIRING FROM SOLAR PANEL TO CABINET SHALL BE BLUE #10 XLP WIRE FOR POSITIVE CONDUCTOR AND WHITE #10 XLP FOR NEGATIVE CONDUCTOR.

2. WIRING FROM CABINET TO GATE ARM SHALL BE WHITE #10 XLP FOR COMMON, RED #10 XLP FOR FLASHER CIRCUIT 1, AND BLUE #10 XLP FOR FLASHER CIRCUIT 2.



BASE AND PULLBOX DETAIL

(SOLAR POWER OPTION)

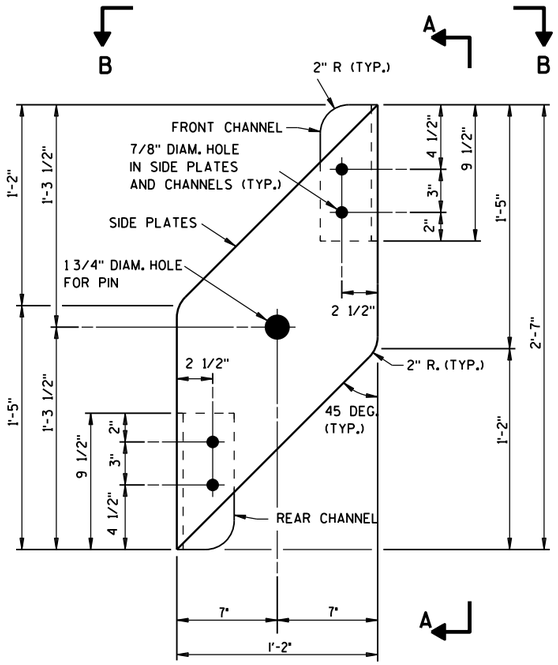


RAMP GATE
SOLAR POWER

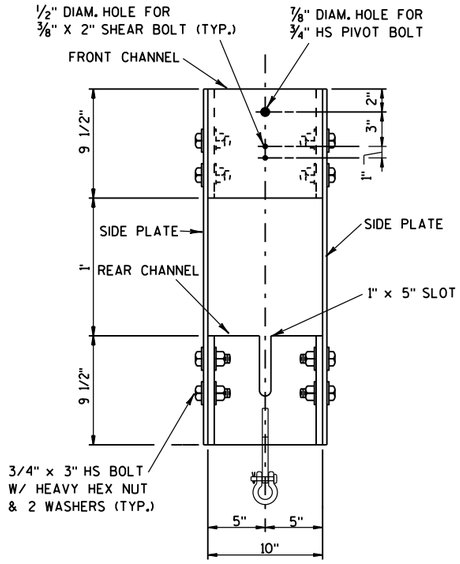
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

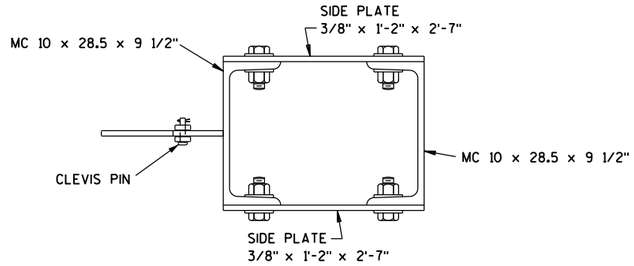
S.D.D. 15 D 34-1b



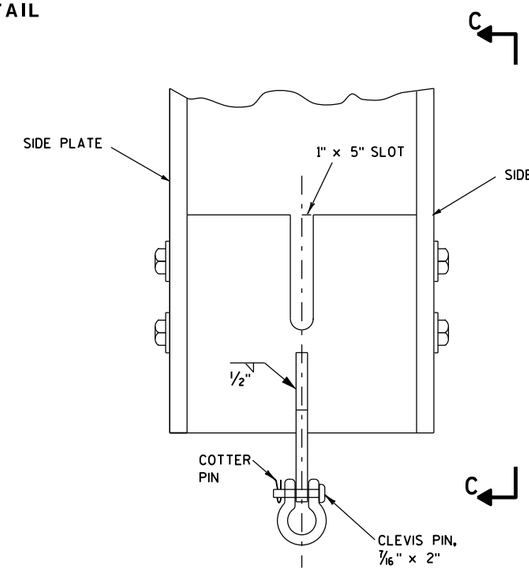
SIDE PLATE DETAIL



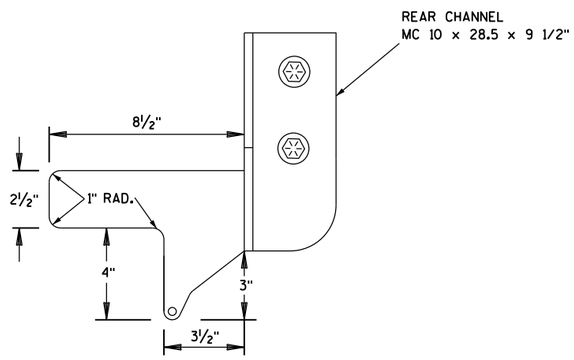
SECTION A-A



SECTION B-B



YOKE ASSEMBLY DETAIL



SECTION C-C

RAMP GATE
SOLAR POWER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 34-1c

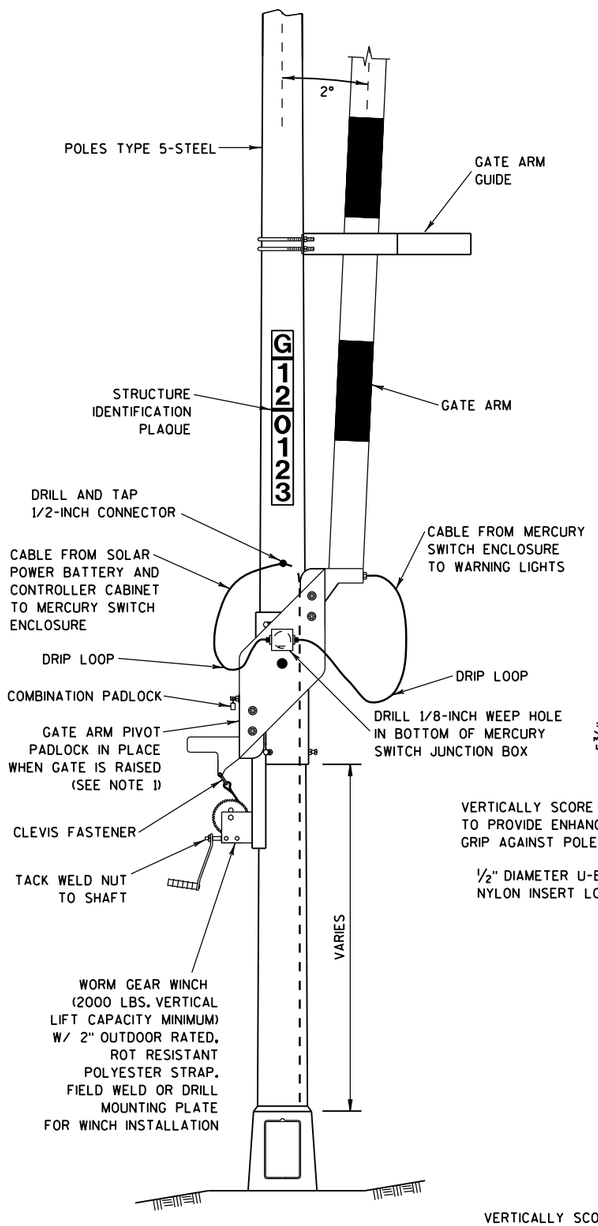
GENERAL NOTES

1. WHEN THE GATE IS FULLY RAISED, THE NUT AND WASHER SHALL BE PLACED SNUGLY AGAINST THE OUTSIDE OF THE REAR CHANNEL AND PADLOCKED IN PLACE.

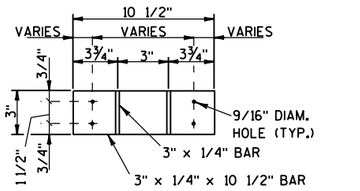
2. WHEN THE GATE IS FULLY LOWERED, THE NUT AND WASHER SHALL BE PLACED SNUGLY AGAINST THE INSIDE OF THE REAR CHANNEL AND PADLOCKED INTO PLACE.

3. ANTI-SEIZE LUBRICATING MATERIAL SHALL BE USED ON ALL BOLT THREADS BEFORE INSTALLATION.

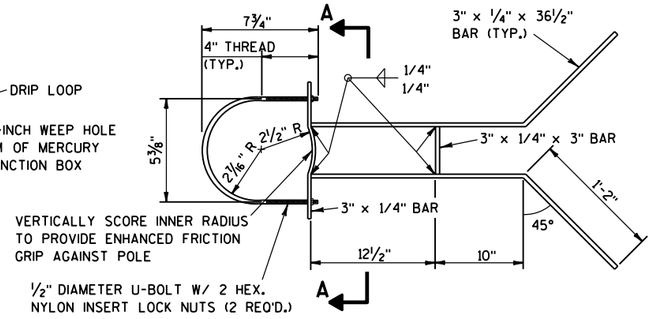
4. ALL BOLTS SHALL BE GALVANIZED AND CONFORM TO ASTM A307, GRADE A, UNLESS DESIGNATED AS HS (HIGH STRENGTH), WHICH SHALL CONFORM TO ASTM A325. BOLTS OF 1/2" NOMINAL DIAMTER OR LESS MAY BE STAINLESS STEEL.



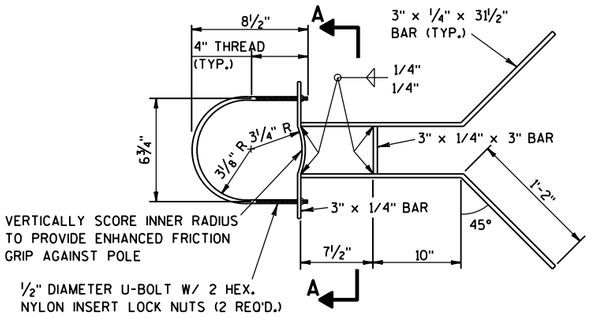
GATE PIVOT ASSEMBLY



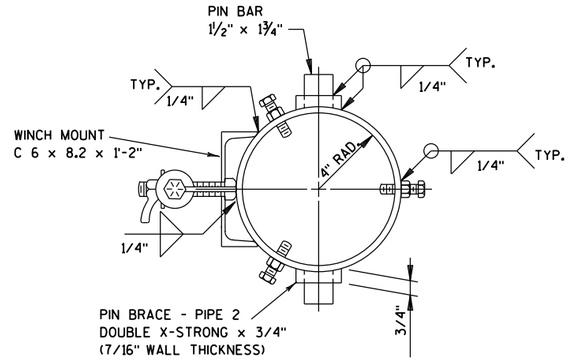
SECTION A-A
U-BOLTS NOT SHOWN



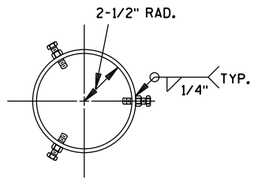
UPPER GATE ARM GUIDE DETAIL



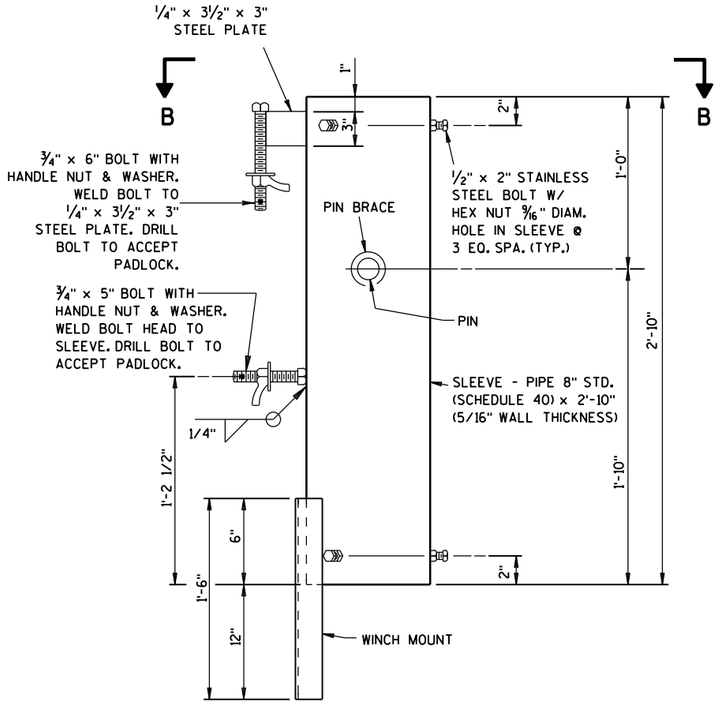
LOWER GATE ARM GUIDE DETAIL



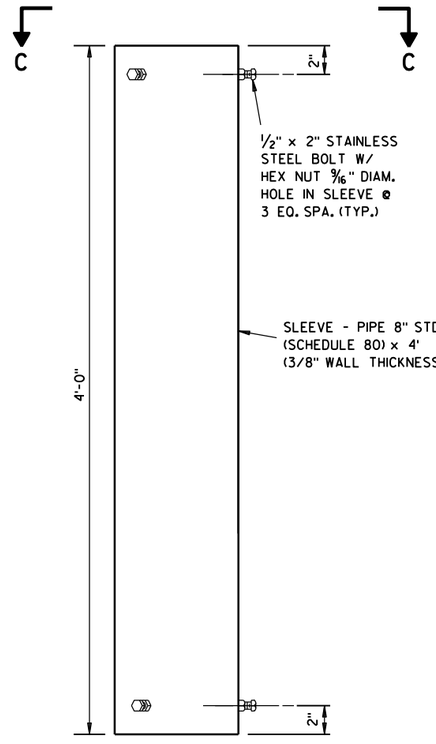
SECTION B-B



SECTION C-C



PIVOT SLEEVE DETAIL



TOP COLLAR

RAMP GATE
SOLAR POWER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-30-2013
DATE
/S/ Bill Wondrachek
STATE TRAFFIC MANAGEMENT ENGINEER
FHWA

6

S.D.D. 15 D 34-1d

6

S.D.D. 15 D 34-1d

DATE 17AUG15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1166-07-76 QUANTITY
0460	502.0100	Concrete Masonry Bridges	CY	778.000	778.000
0470	502.3100	Expansion Device (structure) 01. B-39-28	LS	1.000	1.000
0480	502.3100	Expansion Device (structure) 02. B-39-29	LS	1.000	1.000
0490	502.3200	Protective Surface Treatment	SY	1,455.000	1,455.000
0500	502.3210.S	Pigmented Protective Surface Treatment	SY	873.000	873.000
0510	502.5002	Masonry Anchors Type L No. 4 Bars	EACH	128.000	128.000
0520	502.5005	Masonry Anchors Type L No. 5 Bars	EACH	288.000	288.000
0530	503.0137	Prestressed Girder Type I 36W-Inch	LF	763.000	763.000
0540	504.0900	Concrete Masonry Endwalls	CY	2.800	2.800
0550	505.0405	Bar Steel Reinforcement HS Bridges	LB	10,160.000	10,160.000
0560	505.0605	Bar Steel Reinforcement HS Coated Bridges	LB	117,720.000	117,720.000
0570	505.0800.S	Bar Steel Reinforcement HS Stainless Structures	LB	1,570.000	1,570.000
0580	506.2605	Bearing Pads Elastomeric Non-Laminated	EACH	30.000	30.000
0590	506.4000	Steel Diaphragms (structure) 01. B-39-76	EACH	12.000	12.000
0600	506.5000	Bearing Assemblies Fixed (structure) 01. B-39-28	EACH	4.000	4.000
0610	506.5000	Bearing Assemblies Fixed (structure) 02. B-39-29	EACH	4.000	4.000
0620	506.6000	Bearing Assemblies Expansion (structure) 01. B-39-28	EACH	8.000	8.000
0630	506.6000	Bearing Assemblies Expansion (structure) 02. B-39-29	EACH	8.000	8.000
0640	506.7050.S	Removing Bearings (structure) 01. B-39-28	EACH	12.000	12.000
0650	506.7050.S	Removing Bearings (structure) 02. B-39-29	EACH	12.000	12.000
0660	506.7060.S	Bridge Jacking (structure) 01. B-39-28	LS	1.000	1.000
0670	506.7060.S	Bridge Jacking (structure) 02. B-39-29	LS	1.000	1.000
0680	509.0301	Preparation Decks Type 1	SY	84.000	84.000
0690	509.0302	Preparation Decks Type 2	SY	34.000	34.000
0700	509.1000	Joint Repair	SY	60.000	60.000
0710	509.1200	Curb Repair	LF	30.000	30.000
0720	509.1500	Concrete Surface Repair	SF	40.000	40.000
0730	509.2000	Full-Depth Deck Repair	SY	1.000	1.000
0740	509.2500	Concrete Masonry Overlay Decks	CY	51.000	51.000
0750	509.5100.S	Polymer Overlay	SY	1,086.000	1,086.000
0760	509.9005.S	Removing Concrete Masonry Deck Overlay (structure) 01. B-39-10	SY	486.000	486.000
0770	509.9050.S	Cleaning Parapets	LF	1,834.000	1,834.000
0780	511.1200	Temporary Shoring (structure) 01. B-39-76	SF	2,000.000	2,000.000
0790	516.0500	Rubberized Membrane Waterproofing	SY	66.000	66.000
0800	517.1800.S	Structure Repainting Recycled Abrasive (structure) 01. B-39-28	LS	1.000	1.000
0810	517.1800.S	Structure Repainting Recycled Abrasive (structure) 02. B-39-29	LS	1.000	1.000
0820	517.3000.S	Structure Overcoating Cleaning and Priming (structure) 01. B-39-26	LS	1.000	1.000
0830	517.4000.S	Containment and Collection of Waste Materials (structure) 01. B-39-26	LS	1.000	1.000
0840	517.4500.S	Negative Pressure Containment and Collection of Waste Materials (structure) 01. B-39-28	LS	1.000	1.000

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DATE 17AUG15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1166-07-76 QUANTITY
0850	517.4500.S	Negative Pressure Containment and Collection of Waste Materials (structure) 02. B-39-29	LS	1.000	1.000
0860	517.6001.S	Portable Decontamination Facility	EACH	3.000	3.000
0870	520.0124	Culvert Pipe Class III 24-Inch	LF	48.000	48.000
0880	520.0130	Culvert Pipe Class III 30-Inch	LF	180.000	180.000
0890	520.1012	Apron Endwalls for Culvert Pipe 12-Inch	EACH	2.000	2.000
0900	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	2.000	2.000
0910	520.1030	Apron Endwalls for Culvert Pipe 30-Inch	EACH	6.000	6.000
0920	520.4012	Culvert Pipe Temporary 12-Inch	LF	1,054.000	1,054.000
0930	520.4030	Culvert Pipe Temporary 30-Inch	LF	66.000	66.000
0940	520.8000	Concrete Collars for Pipe	EACH	3.000	3.000
0950	521.1012	Apron Endwalls for Culvert Pipe Steel 12-Inch	EACH	5.000	5.000
0960	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	72.000	72.000
0970	522.0136	Culvert Pipe Reinforced Concrete Class III 36-Inch	LF	686.000	686.000
0980	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	2.000	2.000
0990	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	8.000	8.000
1000	526.0100	Temporary Structure (station) 01. 651+60	LS	1.000	1.000
1010	550.2106	Piling CIP Concrete 10 3/4 X 0.365-Inch	LF	7,950.000	7,950.000
1020	601.0415	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type J	LF	245.000	245.000
1030	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	303.000	303.000
1040	603.8000	Concrete Barrier Temporary Precast Delivered	LF	10,550.000	10,550.000
1050	603.8125	Concrete Barrier Temporary Precast Installed	LF	16,275.000	16,275.000
1060	604.0600	Slope Paving Select Crushed Material	SY	430.000	430.000
1070	604.9015.S	Reseal Crushed Aggregate Slope Paving	SY	459.000	459.000
1080	606.0200	Riprap Medium	CY	192.000	192.000
1090	611.0654	Inlet Covers Type V	EACH	5.000	5.000
1100	611.3220	Inlets 2x2-FT	EACH	5.000	5.000
1110	611.8120.S	Cover Plates Temporary	EACH	1.000	1.000
1120	612.0212	Pipe Underdrain Unperforated 12-Inch	LF	278.000	278.000
1130	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	190.000	190.000
1140	614.0010	Barrier System Grading Shaping Finishing	EACH	2.000	2.000
1150	614.0115	Anchorages for Steel Plate Beam Guard Type 2	EACH	1.000	1.000
1160	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	12.000	12.000
1170	614.0905	Crash Cushions Temporary	EACH	25.000	25.000
1180	614.2300	MGS Guardrail 3	LF	3,300.000	3,300.000
1190	614.2330	MGS Guardrail 3 K	LF	487.500	487.500
1200	614.2500	MGS Thrie Beam Transition	LF	394.000	394.000
1210	614.2610	MGS Guardrail Terminal EAT	EACH	14.000	14.000
1220	616.0100	Fence Woven Wire (height) 01. 4-Ft	LF	2,692.000	2,692.000
1230	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1166-07-76	EACH	1.000	1.000
1240	619.1000	Mobilization	EACH	1.000	1.000
1250	624.0100	Water	MGAL	1,050.000	1,050.000

3

DATE 17AUG15 E S T I M A T E O F Q U A N T I T I E S

LINE 1166-07-76

NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
1260	625.0100	Topsoil	SY	151,800.000	151,800.000
1270	627.0200	Mulching	SY	159,968.000	159,968.000
1280	628.1504	Silt Fence	LF	11,500.000	11,500.000
1290	628.1520	Silt Fence Maintenance	LF	11,500.000	11,500.000
1300	628.1905	Mobilizations Erosion Control	EACH	17.000	17.000
1310	628.1910	Mobilizations Emergency Erosion Control	EACH	8.000	8.000
1320	628.2002	Erosion Mat Class I Type A	SY	40,400.000	40,400.000
1330	628.7005	Inlet Protection Type A	EACH	8.000	8.000
1340	628.7010	Inlet Protection Type B	EACH	5.000	5.000
1350	628.7504	Temporary Ditch Checks	LF	765.000	765.000
1360	628.7555	Culvert Pipe Checks	EACH	111.000	111.000
1370	628.7570	Rock Bags	EACH	135.000	135.000
1380	629.0210	Fertilizer Type B	CWT	120.000	120.000
1390	630.0130	Seeding Mixture No. 30	LB	2,933.000	2,933.000
1400	630.0200	Seeding Temporary	LB	740.000	740.000
1410	633.0100	Delineator Posts Steel	EACH	66.000	66.000
1420	633.0500	Delineator Reflectors	EACH	86.000	86.000
1430	633.5200	Markers Culvert End	EACH	11.000	11.000
1440	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	8.000	8.000
1450	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	15.000	15.000
1460	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	7.000	7.000
1470	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	14.000	14.000
1480	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	4.000	4.000
1490	635.0200	Sign Supports Structural Steel HS	LB	147.000	147.000
1500	635.0300	Sign Supports Replacing Base Connection Bolts	EACH	8.000	8.000
1510	636.0100	Sign Supports Concrete Masonry	CY	2.000	2.000
1520	636.1000	Sign Supports Steel Reinforcement HS	LB	98.000	98.000
1530	637.2210	Signs Type II Reflective H	SF	313.090	313.090
1540	637.2215	Signs Type II Reflective H Folding	SF	10.000	10.000
1550	637.2230	Signs Type II Reflective F	SF	75.500	75.500
1560	638.2101	Moving Signs Type I	EACH	1.000	1.000
1570	638.2102	Moving Signs Type II	EACH	2.000	2.000
1580	638.2602	Removing Signs Type II	EACH	49.000	49.000
1590	638.3000	Removing Small Sign Supports	EACH	48.000	48.000
1600	638.4100	Moving Structural Steel Sign Supports	EACH	2.000	2.000
1610	642.5201	Field Office Type C	EACH	1.000	1.000
1620	643.0100	Traffic Control (project) 01. 1166-07-76	EACH	1.000	1.000
1630	643.0300	Traffic Control Drums	DAY	30,649.000	30,649.000
1640	643.0420	Traffic Control Barricades Type III	DAY	2,219.000	2,219.000
1650	643.0705	Traffic Control Warning Lights Type A	DAY	2,833.000	2,833.000
1660	643.0715	Traffic Control Warning Lights Type C	DAY	3,621.000	3,621.000
1670	643.0800	Traffic Control Arrow Boards	DAY	654.000	654.000
1680	643.0900	Traffic Control Signs	DAY	13,017.000	13,017.000
1690	643.0920	Traffic Control Covering Signs Type II	EACH	184.000	184.000
1700	643.1050	Traffic Control Signs PCMS	DAY	240.000	240.000
1710	643.2000	Traffic Control Detour (project) 01. 1166-07-76	EACH	1.000	1.000
1720	643.3000	Traffic Control Detour Signs	DAY	752.000	752.000
1730	645.0120	Geotextile Fabric Type HR	SY	636.000	636.000
1740	646.0106	Pavement Marking Epoxy 4-Inch	LF	31,104.000	31,104.000
1750	646.0126	Pavement Marking Epoxy 8-Inch	LF	181.000	181.000
1760	646.0600	Removing Pavement Markings	LF	1,263.000	1,263.000

3

DATE 17AUG15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1166-07-76 QUANTITY
1770	646.0841.S	Pavement Marking Grooved Wet Reflective Contrast Tape 4-Inch	LF	88.000	88.000
1780	646.0881.S	Pavement Marking Grooved Wet Reflective Tape 4-Inch	LF	794.000	794.000
1790	646.0883.S	Pavement Marking Grooved Wet Reflective Tape 8-Inch	LF	1,810.000	1,810.000
1800	647.0186	Pavement Marking Arrows Epoxy Type 4	EACH	1.000	1.000
1810	647.0456	Pavement Marking Curb Epoxy	LF	245.000	245.000
1820	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	64.000	64.000
1830	647.0606	Pavement Marking Island Nose Epoxy	EACH	3.000	3.000
1840	649.0100	Temporary Pavement Marking 4-Inch	LF	19,088.000	19,088.000
1850	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	153,079.000	153,079.000
1860	649.0701	Temporary Pavement Marking 8-Inch	LF	314.000	314.000
1870	649.0801	Temporary Pavement Marking Removable Tape 8-Inch	LF	1,452.000	1,452.000
1880	649.1100	Temporary Pavement Marking Stop Line 18-Inch	LF	72.000	72.000
1890	649.1400	Temporary Pavement Marking Stop Line Removable Tape 24-Inch	LF	24.000	24.000
1900	650.4000	Construction Staking Storm Sewer	EACH	23.000	23.000
1910	650.4500	Construction Staking Subgrade	LF	21,884.000	21,884.000
1920	650.5000	Construction Staking Base	LF	21,884.000	21,884.000
1930	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	548.000	548.000
1940	650.6000	Construction Staking Pipe Culverts	EACH	13.000	13.000
1950	650.6500	Construction Staking Structure Layout (structure) 01. B-39-76	LS	1.000	1.000
1960	650.9910	Construction Staking Supplemental Control (project) 01. 1166-07-76	LS	1.000	1.000
1970	650.9920	Construction Staking Slope Stakes	LF	21,884.000	21,884.000
1980	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	154.000	154.000
1990	653.0135	Pull Boxes Steel 24x36-Inch	EACH	2.000	2.000
2000	654.0105	Concrete Bases Type 5	EACH	2.000	2.000
2010	654.0220	Concrete Control Cabinet Bases Type 10	EACH	1.000	1.000
2020	661.0100	Temporary Traffic Signals for Bridges (structure) 01. B-39-26	LS	1.000	1.000
2030	690.0150	Sawing Asphalt	LF	3,383.000	3,383.000
2040	715.0502	Incentive Strength Concrete Structures	DOL	4,350.000	4,350.000
2050	ASP.1T0A	On-the-Job Training Apprentice at $5. 00/HR	HRS	2,400.000	2,400.000
2060	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,760.000	2,760.000
2070	SPV.0045	Special 01. Portable Changeable Message Sign (Pcms) Cellular Communications	DAY	240.000	240.000
2080	SPV.0060	Special 01. Salvaged Pedestal Base	EACH	1.000	1.000
2090	SPV.0060	Special 02. Salvaged Transformer Base	EACH	2.000	2.000
2100	SPV.0060	Special 03. Salvaged Traffic Signal Standards Aluminum 15-Ft	EACH	1.000	1.000
2110	SPV.0060	Special 04. Salvaged Ramp Closure Gates Solar 24-Ft	EACH	2.000	2.000
2120	SPV.0060	Special 05. Inlets 2x2-Ft Temporary	EACH	8.000	8.000
2130	SPV.0060	Special 06. Manholes 4-Ft Diameter Temporary	EACH	1.000	1.000
2140	SPV.0060	Special 07. Removing Sign and Foundation	EACH	1.000	1.000
2150	SPV.0090	Special 01. Fill Existing Rumble Strips	LF	15,001.000	15,001.000

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DATE 17AUG15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1166-07-76 QUANTITY
2160	SPV.0120	Special 01. Water for Seeded Areas	MGAL	2,711.000	2,711.000

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CLEARING AND GRUBBING

STATION	-	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
620'RCR'+00	-	623'RCR'+00	LT	3	3
626'RCR'+00	-	649'RCR'+00	LT	23	23
650'RDR'+00	-	653'RDR'+00	RT & LT	3	3
657'RDR'+00		658'RDR'+00	RT & LT	1	1
660'RDR'+00	-	666'RDR'+00	RT & LT	6	6
632'C'+00	-	643'C'+00	RT & LT	11	11
97'J'+00	-	98'J'+00	RT & LT	1	1
			TOTALS	48	48

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	203.0100 EACH	DESCRIPTION
650'RCR'+41	CL	1	30" CMP
653'RDR'+67	RT	1	30" RCP
656'RDR'+70	RT	1	12" RCP
663'RDR'+22	LT	3	36" RCP
627'C'+88	RT	3	30"x42" CMP
641'C'+65	CL	1	24" RCP
	TOTAL	10	

REMOVING ASPHALTIC SURFACE BUTT JOINTS

STATION	-	STATION	LOCATION	204.0115 SY
745'SB'+32	-	746'SB'+07	RT & LT	330
747'SB'+09	-	747'SB'+84	RT & LT	351
			TOTAL	681

REMOVING CURB & GUTTER

STATION	-	STATION	LOCATION	204.0130 REMOVING CURB LF	204.0150 REMOVING CURB & GUTTER LF
266'S'+40	-	266'S'+96	RT	---	89
267'S'+23	-	267'S'+42	RT	---	42
266'S'+72	-	267'S'+41	LT	---	79
267'S'+36	-	267'S'+53	LT	52	---
267'S'+72	-	267'S'+84	LT	---	41
			TOTAL	52	251

REMOVING GUARDRAIL

STATION	-	STATION	LOCATION	204.0165 LF
252'SB'+28	-	257'SB'+10	LT	483
252'SB'+43	-	656'SB'+37	RT	394
268'S'+74	-	270'S'+66	RT	192
269'S'+27	-	271'S'+18	LT	191
94'H'+56	-	99'H'+13	RT	458
94'H'+57	-	99'H'+13	LT	457
101'H'+88	-	103'H'+47	RT	159
101'H'+88	-	104'H'+41	LT	255
95'J'+66	-	99'J'+15	RT	360
95'J'+66	-	99'J'+16	LT	361
101'J'+82	-	104'J'+38	RT	256
101'J'+82	-	104'J'+38	LT	256
			TOTAL	3,822

REMOVING FENCE

STATION	-	STATION	LOCATION	204.0170 LF
640'RCR'+07	-	646'RCR'+06	LT	610
653'RDR'+18	-	668'RDR'+83	RT	1,515
98'H'+93	-	99'H'+18	79' RT TO 20' RT	65
98'H'+93	-	99'H'+18	88' LT TO 19' LT	73
101'H'+82	-	101'H'+84	68' RT TO 19' RT	50
101'H'+82	-	101'H'+82	19' LT TO 72' LT	54
101'J'+78	-	101'J'+81	15' RT TO 84' RT	70
101'J'+77	-	101'J'+83	15' LT TO 70' LT	55
			TOTAL	2,492

REMOVING DELINEATORS

STATION	-	STATION	LOCATION	204.0180 REMOVING DELINEATORS AND MARKERS EACH	REMARKS
618'SB'+50		630'SB'+50	LT	3	IH 39 SB (400' SPACING)
645'SB'+00		657'SB'+00	LT	7	IH 39 SB BETWEEN EXISTING RAMPS (200' SPACING)
665'SB'+70		671'SB'+79	LT	2	IH 39 SB (400' SPACING)
630'RCR'+50		649'RCR'+70	LT	22	EXISTING RAMP C
651'RDR'+55		665'RDR'+13	LT	16	EXISTING RAMP D
			TOTALS	50	

REMOVING SURFACE DRAINS

STATION	LOCATION	204.0190 EACH
652'SB'+56	RT	1
101'H'+93	RT	1
101'H'+93	LT	1
101'J'+88	RT	1
101'J'+88	LT	1
	TOTAL	5

REMOVING CONCRETE BASES

STATION	LOCATION	204.0195 EACH
650'RCR'+29	23.5' LT	1
650'RCR'+35	27.3' RT	1
650'RCR'+39	24.7' LT	1
	TOTAL	3

REMOVING INLETS

STATION	LOCATION	204.0220 EACH
652'SB'+56	LT	1
101'H'+93	RT	1
101'H'+93	LT	1
101'J'+88	RT	1
101'J'+88	LT	1
	TOTAL	5

EARTHWORK

STATION - STATION	LOCATION	205.0100 EXCAVATION COMMON (1) CUT (2)	AVAILABLE MATERIAL (3)	UNEXPANDED FILL	EXPANDED FILL (4) FACTOR 1.25	MASS ORDINATE +/- (5)	WASTE	208.0100 BORROW
638'SB'+00 - 663'SB'+00	IH 39 SB	2,250	2,250	21,050	26,350	-24,100	0	24,100
103'SBT'+56 - 173'SBT'+00	MEDIAN BYPASS	1,250	1,250	52,800	66,000	-64,750	0	64,750
91'H'+55 - 106'H'+50	CTH M	1,200	1,200	2,900	3,650	-2,450	0	2,450
91'J'+75 - 108'J'+75	EDGEWOOD CT	950	950	1,250	1,600	-650	0	650
624'C'+50 - 643'C'+55	CROSSROADS CLINIC RD	4,750	4,750	4,600	5,750	-1,000	0	1,000
618'RCR'+19 - 650'RCR'+00	RAMP C	40,200	40,200	950	1,200	39,000	39,000	0
649'RDR'+99 - 671'RDR'+80	RAMP D	850	850	84,100	105,150	-104,300	0	104,300
645'CT'+18 - 651'CT'+51	TEMP. RAMP C	3,450	3,450	300	400	3,050	3,050	0
652'DT'+18 - 653'DT'+30	TEMP. RAMP D	150	150	200	250	-100	0	100
SubTotal		55,050	55,050	168,150	210,350	-155,300	42,050	197,350
	SUBTOTAL EXC COMMON	**55,050**					**SUBTOTAL BORROW**	**155,300**
625'SB'+00 - 649'SB'+00	IH 39 SB STAGE 3	19,600	19,600	50	100	19,500	19,500	0
653'SB'+00 - 676'SB'+00	IH 39 SB STAGE 3	19,100	19,100	50	100	19,000	19,000	0
SubTotal		38,700	38,700	100	200	38,500	38,500	0
	SUBTOTAL EXC COMMON	**38,700**					**SUBTOTAL BORROW**	**0**
	TOTAL EXC COMMON	**93,750**					**TOTAL BORROW**	**155,300**

1) Excavation Common is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut.
3) Available Material = Cut - Salvaged/Unusuable Pavement Material
4) Expanded Fill. Factor = 1.25: Expanded Fill = (Unexpanded Fill) * Fill Factor
5) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

REMOVING STORM SEWER

STATION	SIZE	LOCATION	204.0245.01 LF
652'SB'+56	18"	LT	63
101'H'+93	18"	RT	51
101'H'+93	18"	LT	52
101'J'+88	18"	RT	59
101'J'+88	18"	LT	54
		TOTAL	279

OBLITERATING OLD ROAD

STATION	-	STATION	LOCATION	214.0100 OBLITERATING OLD ROAD STA
646'CT'+60	-	651'CT'+60	STAGE 3, TEMP RAMP C	5.0
652'DT'+10	-	654'DT'+40	STAGE 3, TEMP RAMP D	2.3
651'RD'+50	-	658'RD'+60	STAGE 3, RAMP D	7.1
628'C'+12	-	628'C'+89	CROSSROADS CLINIC RD	1.0
			TOTALS	15.4

BASE AGGREGATE DENSE 3-INCH

STATION	-	STATION	LOCATION	305.0130 TONS
638'SB'+00	-	645'SB'+00	STAGE 2B, IH 39 SB	2,990
645'SB'+00	-	650'SB'+71	STAGE 2A,IH 39 SB	2,439
652'SB'+66	-	658'SB'+00	STAGE 2A, IH 39 SB	2,281
658'SB'+00	-	663'SB'+00	STAGE 2B, IH 39 SB	2,135
618'RCR'+19	-	633'RCR'+56	RAMP C	1,907
633'RCR'+56	-	636'RCR'+12	RAMP C	503
636'RCR'+12	-	644'RCR'+78	RAMP C	1,434
644'RCR'+78	-	650'RCR'+04	RAMP C	1,060
650'RCR'+04	-	650'RCR'+71	RAMP C	183
649'RDR'+99	-	650'RDR'+61	RAMP D	498
650'RDR'+61	-	660'RDR'+18	RAMP D	1,929
660'RDR'+18	-	660'RDR'+73	RAMP D	104
660'RDR'+73	-	667'RDR'+03	RAMP D	1,297
667'RDR'+03	-	671'RDR'+80	RAMP D	779
UNDISTRIBUTED				1,061
			TOTAL	20,600

BASE AGGREGATE

STATION	-	STATION	LOCATION	305.0110 3/4-INCH TONS	305.0120 1 1/4-INCH TONS
103'SBT'+56	-	129'SBT'+00	TEMPORARY MEDIAN BYPASS LT	81	1,357
129'SBT'+00	-	143'SBT'+87	TEMPORARY MEDIAN BYPASS LT	25	3,516
145'SBT'+24	-	156'SBT'+00	TEMPORARY MEDIAN BYPASS LT	18	2,544
156'SBT'+00	-	173'SBT'+09	TEMPORARY MEDIAN BYPASS LT	101	1,558
103'SBT'+56	-	143'SBT'+87	TEMPORARY MEDIAN BYPASS RT	477	5,977
145'SBT'+24	-	146'SBT'+00	TEMPORARY MEDIAN BYPASS RT	9	119
146'SBT'+00	-	164'SBT'+00	TEMPORARY MEDIAN BYPASS RT	31	4,256
164'SBT'+00	-	173'SBT'+09	TEMPORARY MEDIAN BYPASS RT	108	46
645'CT'+18	-	651'CT'+51	TEMP RAMP C	99	1,258
652'DT'+18	-	653'DT'+60	TEMP RAMP D	33	452
638'SB'+00	-	645'SB'+00	STAGE 2B, IH 39 SB	349	1,397
645'SB'+00	-	650'SB'+71	STAGE 2A,IH 39 SB	285	1,139
652'SB'+66	-	658'SB'+00	STAGE 2A, IH 39 SB	266	1,065
658'SB'+00	-	663'SB'+00	STAGE 2B, IH 39 SB	249	998
618'RCR'+19	-	633'RCR'+56	RAMP C	364	1,282
633'RCR'+56	-	636'RCR'+12	RAMP C	78	359
636'RCR'+12	-	644'RCR'+78	RAMP C	311	1,194
644'RCR'+78	-	650'RCR'+04	RAMP C	239	734
650'RCR'+04	-	650'RCR'+71	RAMP C	7	135
649'RDR'+99	-	650'RDR'+61	RAMP D	11	318
650'RDR'+61	-	660'RDR'+18	RAMP D	432	1,335
660'RDR'+18	-	660'RDR'+73	RAMP D	22	69
660'RDR'+73	-	667'RDR'+03	RAMP D	283	900
667'RDR'+03	-	671'RDR'+80	RAMP D	113	539
625'C'+00	-	631'C'+13	CROSSROADS CLINIC ROAD	51	1,203
631'C'+13	-	633'C'+04	CROSSROADS CLINIC ROAD	15	1,206
633'C'+04	-	643'C'+53	CROSSROADS CLINIC ROAD	62	2,197
643'C'+53	-	643'C'+55	CROSSROADS CLINIC ROAD	0	13
92'H'+72	-	99'H'+25	CTH M	112	1,800
101'H'+76	-	105'H'+50	CTH M, LT	49	537
101'H'+76	-	104'H'+31	CTH M, RT	35	374
105'H'+50	-	106'H'+50	CTH M, LT	26	162
104'H'+31	-	106'H'+50	CTH M, RT	36	325
91'J'+75	-	94'J'+74	EDGEWOOD CT	90	599
94'J'+74	-	97'J'+77	EDGEWOOD CT	45	600
97'J'+77	-	98'J'+65	EDGEWOOD CT	11	160
98'J'+65	-	99'J'+26	EDGEWOOD CT	8	105
101'J'+72	-	102'J'+33	EDGEWOOD CT	8	104
102'J'+33	-	103'J'+20	EDGEWOOD CT	11	158
103'J'+20	-	104'J'+48	EDGEWOOD CT	27	271
104'J'+48	-	108'J'+75	EDGEWOOD CT	122	851
UNDISTRIBUTED			UNDISTRIBUTED	201	1,188
			TOTALS	4,900	44,400

BREAKER RUN

STATION	-	STATION	311.0110 TONS
UNDISTRIBUTED			200
		TOTAL	200

ASPHALT PAVEMENT ITEMS

STATION	-	STATION	LOCATION	455.0105 ASPHALTIC MATERIAL PG58-28 TONS	455.0120 ASPHALTIC MATERIAL PG64-28 TONS	455.0605 TACK COAT GAL	460.4110.S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS LF	460.1101 HMA PAVEMENT TYPE E-1 TONS	460.1110 HMA PAVEMENT TYPE E-10 TONS	460.4000 HMA COLD WEATHER PAVING TONS
638'SB'+00	-	650'SB'+71	IH 39 SB	50	19	338	---	---	1,230	307
652'SB'+66	-	663'SB'+00	IH 39 SB	41	15	278	---	---	1,008	252
638'SB'+00	-	650'SB'+71	IH 39 SB SHOULDER LT	21	---	84	---	376	---	82
638'SB'+00	-	650'SB'+71	IH 39 SB SHOULDER RT	7	---	29	---	127	---	28
745'SB'+32	-	746'SB'+07	IH 39 SB	5	2	34	150	---	120	30
747'SB'+09	-	747'SB'+84	IH 39 SB	6	2	36	150	---	128	32
652'SB'+66	-	663'SB'+00	IH 39 SB SHOULDER LT	7	---	29	---	127	---	28
652'SB'+66	-	663'SB'+00	IH 39 SB SHOULDER RT	6	---	23	---	103	---	23
618'RCR'+19	-	650'RCR'+71	C RAMP	47	39	250	---	---	1,539	---
618'RCR'+19	-	650'RCR'+10	C RAMP SHOULDER LT	20	---	91	---	354	---	---
633'RCR'+80	-	650'RCR'+38	C RAMP SHOULDER RT	11	---	49	---	188	---	---
264'S'+72	-	265'S'+92	STH 82 SHOULDER LT	1	---	4	---	15	---	---
267'S'+55	-	268'S'+00	STH 82 SHOULDER LT	1	---	3	---	9	---	---
650'RDR'+00	-	671'RDR'+80	D RAMP	39	33	211	---	---	1,297	---
650'RDR'+69	-	671'RDR'+80	D RAMP SHOULDER LT	13	---	58	---	227	---	---
650'RDR'+47	-	669'RDR'+67	D RAMP SHOULDER RT	11	---	50	---	192	---	---
625'C'+00	-	643'C'+55	CROSSROADS CLINIC ROAD	82	---	330	---	1,475	---	---
640'C'+84	-	641'C'+58	FERN ROAD	3	---	12	---	50	---	---
92'H'+72	-	99'H'+25	CTH M	34	---	122	---	614	---	---
101'H'+77	-	106'H'+50	CTH M	24	---	86	---	432	---	---
91'J'+75	-	99'J'+26	EDGEWOOD COURT	28	---	114	---	509	---	---
101'J'+72	-	108'J'+75	EDGEWOOD COURT	24	---	97	---	433	---	---
			TOTALS	**481**	**110**	**2,328**	**300**	**5,231**	**5,322**	**782**

CONCRETE SURFACE DRAINS

STATION	LOCATION	416.1010 CY
652SB+62.95	LT	1.3
652SB+77	RT	2.2
102H+01.63	LT	2.2
102H+01.63	RT	2.2
101J+95.16	LT	1.6
101J+95.09	RT	1.6
	TOTAL	**11.1**

ASPHALTIC SURFACE

STATION	-	STATION	LOCATION	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	465.0305 ASPHALTIC SURFACE SAFETY ISLANDS TON
103'SBT'+56	-	143'SBT'+87	IH 39 SB TEMP MEDIAN BYPASS	---	2,898	---
145'SBT'+23	-	173'SBT'+09	IH 39 SB TEMP MEDIAN BYPASS	---	2,472	---
645'CT'+18	-	651'CT'+51	STAGE 1 TEMP RAMP C	---	315	---
652'DT'+18	-	654'DT'+06	STAGE 1 TEMP RAMP D	---	120	---
626'C'+75			CROSSROADS CLINIC RD, RT	50	---	---
743'SB'+57	-	745'SB'+82	IH 39 SB AT FAWN CT STAGE 1A	---	1	---
751'SB'+17	-	758'SB'+99	IH 39 SB AT FAWN CT STAGE 1A	---	4	---
865'SB'+00	-	873'SB'+00	IH 39 AT CTH M STAGE 1	---	4	---
944'SB'+20	-	952'SB'+30	I H 39 AT EDGEWOOD CT STAGE 1	---	4	---
647'NB'+50	-	655'NB'+39	IH 39 NB STH 23/82 & FAWN CT STAGE 1A	---	4	---
741'NB'+50	-	749'NB'+66	IH 39 NB STH 23/82 & FAWN CT STAGE 1A	---	4	---
865'NB'+05	-	873'NB'+05	IH 39 AT CTH M STAGE 1	---	4	---
944'NB'+25	-	952'NB'+35	IH 39 AT EDGEWOOD CT STAGE 1	---	4	---
650'RDR'+14	-	651'RDR'+08	STH 23/82 RAMP ISLAND	---	---	30
DRIVEWAYS			EDGEWOOD COURT	30	---	---
			TOTAL	**80**	**5,834**	**30**

ASPHALTIC FLUMES

STATION	LOCATION	465.0315 SY
650'RCR'+31	RAMP C RT	23
650'RDR'+77	RAMP D LT	17
265'S'+73	STH 23/82 LT	17
266'S'+19	STH 23/82 RT	22
	TOTAL	**79**

RUMBLE STRIPS

AREA	STAGE	STATION		STATION	LOCATION	465.0400 ASPHALTIC SURFACE RUMBLE STRIPS LF	SPV.0090.01 FILL EXISTING RUMBLE STRIPS LF	REMARKS
I39 SB AT FAWN CT	STAGE 1A	742SB+15	-	746SB+02	RT	---	387	
		747SB+13	-	760SB+38	RT	---	1,325	
	STAGE 1B	742SB+15	-	746SB+02	LT	---	387	
		747SB+13	-	760SB+38	LT	---	1,325	
	STAGE 3A	742SB+15	-	746SB+02	LT	387	---	
		747SB+13	-	760SB+38	LT	1,325	---	
	STAGE 3B	742SB+15	-	746SB+02	RT	387	---	
		747SB+13	-	760SB+38	RT	1,325	---	
					SUBTOTAL	**3,424**	**3,424**	
I39 SB AT STH 23/82	STAGE 2B	638SB+00	-	650SB+72	RT	1,272	---	
		638SB+00	-	650SB+72	LT	1,272	---	
		652SB+66	-	663SB+00	RT	1,034	---	
		652SB+66	-	663SB+00	LT	1,034	---	
					SUBTOTAL	**4,612**	**0**	
I39 NB STH 23/82 & FAWN CT	STAGE 1A	647NB+50	-	651NB+34	LT	---	384	
		652NB+81	-	655NB+89	LT	---	408	
		741NB+25	-	746NB+04	LT	---	479	
		747NB+21	-	751NB+16	LT	---	395	
	STAGE 1B	647NB+25	-	651NB+44	RT	---	419	
		652NB+91	-	656NB+89	RT	---	398	
		741NB+25	-	746NB+04	RT	---	479	
		747NB+21	-	751NB+16	RT	---	395	
	STAGE 3A	647NB+50	-	651NB+34	LT	384	---	
		652NB+81	-	656NB+89	LT	408	---	
		741NB+25	-	746NB+04	LT	479	---	
		747NB+21	-	751NB+16	LT	395	---	
	STAGE 3B	647NB+25	-	651NB+44	RT	419	---	
		652NB+91	-	656NB+89	RT	398	---	
		741NB+25	-	746NB+04	RT	479	---	
		747NB+21	-	751NB+16	RT	395	---	
					SUBTOTAL	**3,357**	**3,357**	
I39 AT CTH M	STAGE 1	863SB+90	-	874SB+20	RT	---	1,030	
		863NB+95	-	874NB+15	LT	---	1,020	
	STAGE 3	863SB+90	-	874SB+20	LT	---	1,030	
		863NB+95	-	874NB+15	RT	---	1,020	
	STAGE 4	863SB+90	-	874SB+20	RT	1,030	---	
		863NB+95	-	874NB+15	LT	1,020	---	
	STAGE 5	863SB+90	-	874SB+20	LT	1,030	---	
		863NB+95	-	874NB+15	RT	1,020	---	
					SUBTOTAL	**4,100**	**4,100**	
I39 AT EDGEWOOD CT	STAGE 1	943NB+15	-	953NB+45	LT	---	1,030	
		943SB+10	-	953SB+40	RT	---	1,030	
	STAGE 3	943SB+10	-	953SB+40	LT	---	1,030	
		943NB+15	-	953NB+45	RT	---	1,030	
	STAGE 4	943SB+10	-	953SB+40	LT	1,030	---	
		943NB+15	-	953NB+45	RT	1,030	---	
	STAGE 5	943SB+10	-	953SB+40	LT	1,030	---	
		943NB+15	-	953NB+45	RT	1,030	---	
					SUBTOTAL	**4,120**	**4,120**	
					TOTAL	**19,613**	**15,001**	

CULVERT PIPE CLASS III

STATION	OFFSET	LOCATION	INLET ELEVATION	OUTLET ELEVATION	SLOPE	520.0124 CULVERT PIPE CLASS III 24-INCH LF	520.0130 CULVERT PIPE CLASS III 30-INCH LF	520.1024 APRON ENDWALLS FOR CULVERT PIPE 24-INCH EACH	520.1030 APRON ENDWALLS FOR CULVERT PIPE 30-INCH EACH
628'C'+00	CROSS	CROSSROADS CLINIC ROAD	825.35	825.18	0.28%	---	60	---	2
628'C'+00	CROSS	CROSSROADS CLINIC ROAD	825.35	825.18	0.28%	---	60	---	2
628'C'+00	CROSS	CROSSROADS CLINIC ROAD	825.35	825.18	0.28%	---	60	---	2
641'C'+65	CROSS	CROSSROADS CLINIC ROAD	829.08	828.88	0.42%	48	---	2	---
						48	**180**	**2**	**6**

MINIMUM WALL THICKNESS FOR STEEL CULVERT PIPE:

18-INCH THROUGH 24-INCH	0.064 INCHES
36-INCH	0.079 INCHES
42-INCH THROUGH 48-INCH	0.109 INCHES
72-INCH	0.138 INCHES

CULVERT PIPE REINFORCED CONCRETE

STATION	LOCATION	DESCRIPTION	INLET ELEVATION	OUTLET ELEVATION	SLOPE	522.0130 CULVERT PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	522.0136 CULVERT PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH	520.8000 CONCRETE COLLARS FOR PIPE EACH
650'RCR'+40	CROSS	RAMP C	837.50	836.62	1.22%	72	---	2	---	---
660'RDR'+00	CROSS	RAMP D	625.00	624.50	0.34%	---	146	---	2	---
663'RDR'+02		RAMP D, EXTENSION	823.55	823.29	0.21%	---	124	---	---	1
663'RDR'+02		RAMP D, EXTENSION	823.55	823.29	0.21%	---	124	---	---	1
663'RDR'+02		RAMP D, EXTENSION	823.55	823.29	0.21%	---	124	---	---	1
634'C'+50	CROSS	CROSSROADS CLINIC RD	824.25	824.05	0.36%	---	56	---	2	---
634'C'+50	CROSS	CROSSROADS CLINIC RD	824.25	824.05	0.36%	---	56	---	2	---
634'C'+50	CROSS	CROSSROADS CLINIC RD	824.25	824.05	0.36%	---	56	---	2	---
					TOTALS	**72**	**686**	**2**	**8**	**3**

CONCRETE MASONRY ENDWALLS

STATION	DESCRIPTION	204.0185 REMOVING MASONRY CY	504.0900 CONCRETE MASONRY ENDWALLS CY
663'RDR'+02	RAMP D, EXTENSION	2.8	2.8
	TOTALS	**2.8**	**2.8**

TEMPORARY STORM SEWER PIPE

PIPE NUMBER	FROM STRUCTURE NUMBER	TO STRUCTURE NUMBER	INVERT ELEVATION	DISCHARGE ELEVATION	520.4012 CULVERT PIPE TEMPORARY 12-INCH LF
P101	1.1	1.2	853.65	850.02	200
P102	1.2	1.3	850.02	848.19	120
P201	2.1	2.3	859.65	858.80	19
P202	2.2	2.3	866.03	858.80	45
P301	3.1	3.2	842.20	840.19	200
P302	3.2	3.3	840.19	839.19	200
P303	3.3	3.4	839.19	838.19	200
P304	3.4	3.5	838.19	832.80	70
				TOTALS	1,054

CULVERT PIPE TEMPORARY

STATION	LOCATION	INLET ELEVATION	OUTLET ELEVATION	SLOPE	520.4030 CULVERT PIPE TEMPORARY 30-INCH LF
651'CT'+00	CROSS	838.68	838.37	0.47%	66
				TOTALS	66

INLETS AND COVERS

STATION	OFFSET	LOCATION	RIM OR FLANGE LINE ELEVATION	STRUCTURE BOTTOM ELEVATION	DEPTH	611.3220 INLETS 2X2-FT EACH	611.0654 INLET COVERS TYPE V EACH	521.1012 APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH EACH	612.0212 PIPE UNDERDRAIN UNPERFORATED 12-INCH LF
652SB+60.52	34.65	LT	867.69	863.52	3.00	1	1	---	---
652SB+60.52	95	LT	---	844.22	---	---	---	1	60
101H+99.20	15.65	LT	890.03	885.86	3.00	1	1	---	---
101H+99.20	65	LT	---	871.67	---	---	---	1	48
101H+99.20	15.65	RT	889.88	885.71	3.00	1	1	---	---
101H+99.20	70	RT	---	869.49	---	---	---	1	54
101J+92.70	11.66	LT	894.19	890.02	3.00	1	1	---	---
101J+92.70	72	LT	---	873.67	---	---	---	1	60
101J+92.70	11.66	RT	894.19	890.02	3.00	1	1	---	---
101J+92.70	67	RT	---	869.94	---	---	---	1	56
		TOTALS				5	5	5	278

DEPTH OF STRUCTURE IS GUTTER FLANGE OR RIM ELEVATION MINUS THE DEPTH OF FRAME AND RINGS MINUS THE STRUCTURE BOTTOM ELEVATION.

TEMPORARY MANHOLES, INLETS AND COVERS

STRUCTURE NUMBER	STATION	OFFSET	LOCATION	RIM OR FLANGE LINE ELEVATION	STRUCTURE BOTTOM ELEVATION	DEPTH	INLET COVER TYPE	SPV.0060.05 INLETS 2X2-FT TEMPORARY EACH	SPV.0060.06 MANHOLES 4-FT DIAMETER TEMPORARY EACH	611.8120.S COVER PLATES TEMPORARY EACH	520.1012 APRON ENDWALLS FOR CULVERT PIPE 12-INCH EACH
1.1	125SBT+00	25.3'	LT	856.65	853.65	2.34	B	1	---	---	---
1.2	123SBT+00	19.7'	LT	855.02	850.02	4.34	B	1	---	---	---
1.3	122SBT+00	37.2'	RT	---	848.19	---	---	---	---	---	1
2.1	143SBT+50	39.7'	LT	862.65	859.65	2.34	B	1	---	---	---
2.2	143SBT+50	23.8'	RT	869.03	866.03	2.34	B	1	---	---	---
2.3	143SBT+50	20.7'	LT	862.80	858.80	4.00	---	---	1	1	---
3.1	156SBT+00	24.6'	LT	845.20	842.20	2.34	B	1	---	---	---
3.2	158SBT+00	25.0'	LT	843.19	840.19	2.34	B	1	---	---	---
3.3	160SBT+00	24.8'	LT	842.27	839.19	2.42	B	1	---	---	---
3.4	162SBT+00	22.2'	LT	841.97	838.19	3.12	B	1	---	---	---
3.5	162SBT+00	47.7'	RT	---	832.80	---	---	---	---	---	1
			TOTALS					8	1	1	2

DEPTH OF STRUCTURE IS GUTTER FLANGE OR RIM ELEVATION MINUS THE DEPTH OF FRAME AND RINGS MINUS THE STRUCTURE BOTTOM ELEVATION.

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CONCRETE CURB & GUTTER

STATION	-	STATION	LOCATION	601.0415 CONCRETE CURB & GUTTER 6-IN SLOPED 30-IN TYPE J LF	601.0557 CONCRETE CURB & GUTTER 6-IN SLOPED 36-IN TYPE D LF	REMARKS
650'RCR'+10	-	650'RCR'+75	LT	---	99	RAMP C - STH 28
650'RCR'+38	-	650'RCR'+68	RT	---	43	RAMP C - STH 28
650'RDR'+07	-	650'RDR'+47	RT	---	60	RAMP D - STH 28
650'RDR'+11	-	650'RDR'+70	LT	---	101	RAMP D - STH 28
650'RDR'+11	-	651'RDR'+19	LT	245	---	RAMP D - STH 28 ISLAND
			TOTALS	**245**	**303**	

CONCRETE BARRIER TEMPORARY PRECAST

AREA	STAGE	STATION	-	STATION	LOCATION	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	REMARKS
I39 SB AT FAWN	STAGE 2A	744SB+57	-	749SB+70	LT	487.5	487.5	
	STAGE 2B	744SB+57	-	749SB+70	RT	---	487.5	
					SUBTOTAL	**487.5**	**975**	
I39 AT CTH M	STAGE 2	865NB+50	-	871NB+15	LT & RT	1,100	1,100	
		866SB+80	-	872SB+25	LT & RT	1,100	1,100	
	STAGE 3	864NB+85	-	871NB+15	LT	---	587.5	
		866SB+75	-	873SB+00	RT	---	587.5	
	STAGE 4	865NB+25	-	871NB+35	RT	---	575	
		866SB+75	-	872SB+60	LT	---	550	
					SUBTOTAL	**2,200**	**4,500**	
I39 AT EDGEWOOD CT	STAGE 2	944NB+70	-	950NB+45	LT & RT	1,075	1,075	
		946SB+00	-	951SB+65	LT & RT	1,075	1,075	
	STAGE 3	944NB+15	-	950NB+45	LT	---	600	
		946SB+00		952SB+30	RT	---	600	
	STAGE 4	944NB+50	-	950NB+45	RT	---	562.5	
		946SB+05	-	951SB+90	LT	---	550	
					SUBTOTAL	**2,150**	**4,462.5**	
STH 23/82 INTERCHANGE	STAGE 1	268S+70	-	273S+20	LT & RT	800	800	
	STAGE 2A	636+32	-	651+15	BYPASS	1,475	1,475	ANCHORED
		652+50	-	674+40	BYPASS	2,800	2,800	ANCHORED
		666SB+65	-	673SB+30	LT	637.5	637.5	
	STAGE 3	268S+70	-	273S+20	LT	---	---	
	STAGE 5A	269S+75	-	272S+75	LT	---	312.5	
	STAGE 5B	269S+75	-	272S+75	RT	---	312.5	
					SUBTOTAL	**5,712.5**	**6337.5**	
					TOTAL	**10,550**	**16,275**	

CRASH CUSHIONS TEMPORARY

AREA	STAGE	STATION	LOCATION	BACK WIDTH FT	OBJECT MARKING PATTERN	CRASH TEST LEVEL	TRAFFIC DIRECTION	TRAFFIC LOCATION	CRASH CUSHION SHIELDS	614.0905 CRASH CUSHIONS TEMPORARY EACH
I39 SB AT FAWN	STAGE 2A	749SB+70	LT	2	OM3-R (WO5-58R)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
	STAGE 2B	749SB+70	RT	2	OM3-L (WO5-58L)	TL-3	UNIDIRECTIONAL	RT	TEMP BARRIER	1
			SUBTOTAL							**2**
I39 AT CTH M	STAGE 2	865NB+50	LT	2	OM3-L (WO5-58L)	TL-3	UNIDIRECTIONAL	RT	TEMP BARRIER	1
		865NB+50	RT	2	OM3-R (WO5-58R)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
		872SB+25	LT	2	OM3-R (WO5-58R)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
		872SB+25	RT	2	OM3-L (WO5-58L)	TL-3	UNIDIRECTIONAL	RT	TEMP BARRIER	1
	STAGE 3	864NB+85	RT	2	OM3-R (WO5-58R)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
		873SB+00	LT	2	OM3-R (WO5-58R)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
	STAGE 4	865NB+25	RT	2	OM3-L (WO5-58L)	TL-3	UNIDIRECTIONAL	RT	TEMP BARRIER	1
		872SB+60	RT	2	OM3-L (WO5-58L)	TL-3	UNIDIRECTIONAL	RT	TEMP BARRIER	1
			SUBTOTAL							**8**
I39 AT EDGEWOOD CT	STAGE 2	944NB+70	LT	2	OM3-L (WO5-58L)	TL-3	UNIDIRECTIONAL	RT	TEMP BARRIER	1
		944NB+70	RT	2	OM3-R (WO5-58R)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
		951SB+65	LT	2	OM3-R (WO5-58R)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
		951SB+65	RT	2	OM3-L (WO5-58L)	TL-3	UNIDIRECTIONAL	RT	TEMP BARRIER	1
	STAGE 3	944NB+15	RT	2	OM3-R (WO5-58R)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
		952SB+30	LT	2	OM3-R (WO5-58R)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
	STAGE 4	944NB+50	LT	2	OM3-L (WO5-58L)	TL-3	UNIDIRECTIONAL	RT	TEMP BARRIER	1
		951SB+90	RT	2	OM3-L (WO5-58L)	TL-3	UNIDIRECTIONAL	RT	TEMP BARRIER	1
			SUBTOTAL							**8**
STH 23/82 INTERCHANGE	STAGE 1	268S+70	RT	2	OM3-R (WO5-58R)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
		273S+20	LT	2	OM3-R (WO5-58R)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
		273S+20	RT	2	OM3-L (WO5-58L)	TL-3	UNIDIRECTIONAL	RT	TEMP BARRIER	1
	STAGE 2A	663SB+00	BYPASS	2	OM3-R (WO5-58R)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
		670SB+00	BYPASS	2	OM3-L (WO5-58L)	TL-3	UNIDIRECTIONAL	RT	TEMP BARRIER	1
		673SB+30	LT	2	OM3-R (WO5-58R)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
	STAGE 3	268S+70	LT	2	OM3-L (WO5-58L)	TL-3	UNIDIRECTIONAL	RT	TEMP BARRIER	1
			SUBTOTAL							**7**
			TOTAL							**25**

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RIPRAP & GEOTEXTILE FABRIC

STATION	-	STATION	LOCATION	TYPE	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE FABRIC TYPE HR SY
122'SBT'+00			RT	CULVERT APRON	3	16
162'SBT'+00			RT	CULVERT APRON	3	16
652'SB'+63			LT	CULVERT APRON	3	16
652'SB'+78			RT	CULVERT APRON	3	16
651'CT'+00			LT	CULVERT APRON	4	20
650'RCR'+41			LT	CULVERT APRON	4	20
660'RDR'+00			RT	CULVERT APRON	4	21
661'RDR'+00	-	662'RDR'+00	RT	DITCH	56	149
628'C'+00			RT	CULVERT APRON	38	108
634'C'+50			RT	CULVERT APRON	54	129
641'C'+65			RT	CULVERT APRON	4	21
102'H'+02			LT	CULVERT APRON	3	16
102'H'+02			RT	CULVERT APRON	3	16
101'J'+95			LT	CULVERT APRON	3	16
101'J'+95			RT	CULVERT APRON	3	16
650'RCR'+31			RT	FLUME APRON	1	10
650'RDR'+77			LT	FLUME APRON	1	10
265'S'+73			LT	FLUME APRON	1	10
266'S'+19			RT	FLUME APRON	1	10
				TOTALS	192	636

GUARDRAIL

STATION	-	STATION	LOCATION	614.0115 ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2 EACH	614.2300 MGS GUARDRAIL 3 LF	614.2330 MGS GUARDRAIL 3 K LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
652'SB'+51	-	658'SB'+31	LT	---	---	487.5	39.4	1
652'SB'+66	-	655'SB'+58	RT	---	200	---	39.4	1
671'SB'+80			35' LT	1	---	---	---	---
267'S'+75	-	271'S'+42	RT	---	262.5	---	---	2
268'S'+50	-	272'S'+19	LT	---	262.5	---	---	2
92'H'+72	-	99'H'+14	RT	---	550	---	39.4	1
92'H'+72	-	99'H'+15	LT	---	550	---	39.4	1
101'H'+90	-	105'H'+54	LT	---	275	---	39.4	1
101'H'+90	-	104'H'+34	RT	---	150	---	39.4	1
94'J'+72	-	99'J'+14	RT	---	350	---	39.4	1
94'J'+72	-	99'J'+14	LT	---	350	---	39.4	1
101'J'+83	-	104'J'+51	LT	---	175	---	39.4	1
101'J'+83	-	104'J'+50	RT	---	175	---	39.4	1
			TOTALS	1	3,300	487.5	394	14

GUARDRAIL GRADING, SHAPING AND FINISHING

STATION	-	STATION	LOCATION	*COMMON EXCAVATION CY	*BORROW CY	*SALVAGED TOPSOIL SY	*FERTILIZER TYPE B CWT	*SEEDING MIXTURE NO. 30 LB	*MULCHING SY	614.0010 BARRIER SYSTEM GRADING SHAPING FINISHING EACH
267'S'+75	-	271'S'+42	RT	0	40	400	0.25	7.2	400	1
268'S'+50	-	272'S'+19	LT	0	30	320	0.20	5.8	320	1
									TOTALS	2

* ITEMS AND QUANTITIES LISTED FOR BID INFORMATION ONLY.

FENCE WOVEN WIRE (4-FT)

STATION	-	STATION	LOCATION	616.0100.01 LF
640'RCR'+07	-	646'RCR'+06	LT	605
652'RDR'+00	-	668'RDR'+83	LT	1,720
98'H'+93	-	99'H'+18	79' RT TO 20' RT	65
98'H'+93	-	99'H'+18	88' LT TO 19' LT	73
101'H'+82	-	101'H'+84	68' RT TO 19' RT	50
101'H'+82	-	101'H'+82	19' LT TO 72' LT	54
101'J'+78	-	101'J'+81	15' RT TO 84' RT	70
101'J'+77	-	101'J'+83	15' LT TO 70' LT	55
			TOTAL	2,692

WATER

LOCATION	624.0100 WATER MGAL
UNDISTRIBUTED	1,050
TOTAL	1,050

SILT FENCE

STATION	-	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
103'SBT'+56	-	120'SBT'+50	RT	1,694	1,694
166'SBT'+00	-	173'SBT'+09	RT	709	709
651'RDR'+00	-	657'RDR'+00	LT	645	645
660'RDR'+00	-	664'RDR'+00	LT	767	767
625'C'+00	-	628'C'+00	LT	332	332
91'H'+52	-	99'H'+25	LT	718	718
91'H'+52	-	99'H'+25	RT	697	697
102'H'+00	-	106'H'+50	LT	541	541
102'H'+00	-	106'H'+50	RT	539	539
91'J'+75	-	99'J'+15	LT	735	735
91'J'+75	-	99'J'+16	RT	769	769
101'J'+70	-	108'J'+75	RT	726	726
101'J'+70	-	104'J'+50	LT	285	285
UNDISTRIBUTED				2,343	2,343
			TOTALS	11,500	11,500

MOBILIZATIONS EROSION CONTROL

	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
TOTALS	17	8

EROSION MAT

STATION	-	STATION	LOCATION	628.2002 CLASS I, TYPE A SY
123'SBT'+00		144'SBT'+36	'SBT' RT	1,602
129'SBT'+00		144'SBT'+12	'SBT' LT	3,674
144'SBT'+75		156'SBT'+00	'SBT' LT	1,218
144'SBT'+95		165'SBT'+00	'SBT' RT	3,761
618'SB'+19		650'SB'+72	'SB' RT	2,169
650'SB'+72		652'SB'+67	SB' RT AND LT	1,883
652'SB'+67		668'SB'+00	'SB' RT	1,022
652'SB'+36		661'SB'+77	'SB' LT	4,873
645'CT'+60		651'CT'+00	CT' RT	360
647'CT'+65		650'CT'+85	CT' LT	213
93'H'+50		99'H'+25	H" RT	2,006
95'H'+00		99'H'+25	H' LT	2,559
101'H'+77		105'H'+50	'H' LT	1,484
101'H'+77		103'H'+83	'H' RT	794
95'J'+50		98'J'+50	'J' RT	903
96'J'+00		99'J'+14	'J' LT	996
101'J'+77		105'J'+88	'J' LT	940
101'J'+77		106'J'+00	'J' RT	1,544
DITCH CHECKS				278
UNDISTRIBUTED				8,121
			TOTAL	40,400

INLET PROTECTION

STATION	LOCATION		628.7005 TYPE A EACH	628.7010 TYPE B EACH
123'SBT'+00	19.8' LT		1	---
125'SBT'+00	25.0' LT		1	---
143'SBT'+50	23.9' RT		1	---
143'SBT'+50	39.5' LT		1	---
156'SBT'+00	24.6' LT		1	---
158'SBT'+00	25.0' LT		1	---
160'SBT'+00	24.8' LT		1	---
162'SBT'+00	22.2' LT		1	---
652'SB'+60	34.6' LT		---	1
101'H'+99	15.7' LT		---	1
101'H'+99	15.7' RT		---	1
101'J'+93	11.7' LT		---	1
101'J'+93	11.7' RT		---	1
		TOTALS	8	5

TEMPORARY DITCH CHECKS

STATION	-	STATION	OFFSET	628.7504 TEMPORARY DITCH CHECKS LF
123'SBT'+00	-	128'SBT'+00	RT	72
148'SBT'+00	-	155'SBT'+00	RT	96
150'SBT'+00			LT	12
160'SBT'+00			RT	12
654'NB'+00	-	662'NB'+00	LT	108
619'RCR'+00	-	627'RCR'+00	LT	108
631'RCR'+00			LT	12
635'RCR'+00			LT	12
643'RCR'+00			LT	12
645'RCR'+00	-	650'RCR'+00	LT	72
646'RCR'+00	-	650'RCR'+00	RT	60
662'RDR'+00	-	664'RDR'+00	RT	36
UNDISTRIBUTED				153
			TOTAL	765

CULVERT PIPE CHECKS

STATION	OFFSET	628.7555 EACH
651'CT'+00	RT	6
166'SBT'+10	RT	6
650'RCR'+40	RT	6
660'RDR'+00	LT	9
663'RDR'+02	LT	27
628'C'+00	LT	18
634'C'+50	LT	27
641'C'+65	LT	6
108'J'+37	LT	6
	TOTAL	111

ROCK BAGS

STATION	OFFSET	628.7570 EACH
104'H'+97	RT	18
105'H'+56	LT	18
97'J'+00	RT	18
98'J'+01	LT	18
102'J'+88	RT	18
102'J'+99	LT	18
UNDISTRIBUTED		27
	TOTAL	135

LANDSCAPING

STATION	-	STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0200 SEEDING TEMPORARY LB	SPV.0120.01 WATER FOR SEEDED AREAS MGAL	REMARKS
103'SBT'+56	-	113'SBT'+60	SB TEMPORARY RT	1,272	1,916	1.2	---	52	32	STH 23/82 INTERCHANGE STAGE I
113'SBT'+82	-	143'SBT'+80	SB TEMPORARY RT	1,603	3,514	2.2	---	95	59	STH 23/82 INTERCHANGE STAGE I
122'SBT'+18	-	143'SBT'+80	SB TEMPORARY LT	3,502	875	2.8	---	121	75	STH 23/82 INTERCHANGE STAGE I
145'SBT'+11	-	164'SBT'+50	SB TEMPORARY LT	845	669	1.1	---	49	31	STH 23/82 INTERCHANGE STAGE I
145'SBT'+31	-	173'SBT'+09	SB TEMPORARY RT	4,617	2,269	3.7	---	161	100	STH 23/82 INTERCHANGE STAGE I
645'CT'+17	-	651'CT'+57	RAMP C TEMP RT	143	2,914	1.8	---	79	49	STH 23/82 INTERCHANGE STAGE I
647'CT'+15	-	651'CT'+39	RAMP C TEMP LT	596	834	0.5	---	23	14	STH 23/82 INTERCHANGE STAGE I
647'CT'+50	-	651'CT'+51	TEMPORARY RAMP C REMOVAL	2,799	2,799	1.8	50	---	47	STH 23/82 INTERCHANGE STAGE 2B
652'DT'+19	-	653'DT'+45	RAMP D TEMP LT	133	176	0.1	---	5	3	STH 23/82 INTERCHANGE STAGE I
652'DT'+32	-	654'DT'+45	RAMP D TEMP RT	269	345	0.2	---	9	6	STH 23/82 INTERCHANGE STAGE I
652'DT'+10	-	654'DT'+40	TEMPORARY RAMP D REMOVAL	1,112	1,112	0.7	20	---	19	STH 23/82 INTERCHANGE STAGE 2B
651'RD'+50	-	658'RD'+60	EXISTING RAMP D REMOVAL	1,750	1,750	1.1	32	---	29	STH 23/82 INTERCHANGE STAGE 2B
625'SB'+00	-	676'SB'+00	IH 39 MEDIAN TEMP ROAD REMOVAL	34,000	34,000	21.4	612	---	572	STH 23/82 INTERCHANGE STAGE3
638'SB'+00	-	645'SB'+00	IH 39 RT	20	1,038	0.7	19	---	17	STH 23/82 INTERCHANGE STAGE 2B
638'SB'+00	-	645'SB'+00	IH 39 LT	817	1,661	1.0	30	---	28	STH 23/82 INTERCHANGE STAGE 2B
645'SB'+00	-	650'SB'+73	IH 39 RT	269	1,098	0.7	20	---	18	STH 23/82 INTERCHANGE STAGE 2B
645'SB'+00	-	650'SB'+59	IH 39 LT	2,924	3,691	2.3	66	---	62	STH 23/82 INTERCHANGE STAGE 2B
652'SB'+68	-	658'SB'+00	IH 39 RT	575	1,352	0.9	24	---	23	STH 23/82 INTERCHANGE STAGE 2B
652'SB'+53	-	658'SB'+00	IH 39 LT	2,479	1,178	2.0	58	---	55	STH 23/82 INTERCHANGE STAGE 2B
658'SB'+00	-	663'SB'+00	IH 39 RT	820	1,548	1.0	28	---	26	STH 23/82 INTERCHANGE STAGE 2B
658'SB'+00	-	663'SB'+00	IH 39 LT	3,632	1,660	2.7	78	---	73	STH 23/82 INTERCHANGE STAGE 2B
618'RCR'+19	-	650'RCR'+72	RAMP C LT	15,207	19,085	12.0	344	---	321	STH 23/82 INTERCHANGE STAGE 2A
636'RCR'+62	-	650'RCR'+65	RAMP C RT	2,833	4,128	2.6	74	---	69	STH 23/82 INTERCHANGE STAGE 2A
650'RDR'+15	-	671'RDR'+80	RAMP D LT	13,930	16,953	10.7	305	---	285	STH 23/82 INTERCHANGE STAGE 2A
650'RDR'+10	-	666'RDR'+72	RAMP D RT	6,720	8,050	5.1	145	---	135	STH 23/82 INTERCHANGE STAGE 2A
625'C'+00	-	643'C'+55	CROSSROADS CLINIC RD RT	6,164	7,086	4.5	128	---	119	STH 23/82 INTERCHANGE STAGE I
625'C'+00	-	641'C'+00	CROSSROADS CLINIC RD LT	3,426	4,202	2.6	76	---	71	STH 23/82 INTERCHANGE STAGE I
641'C'+50	-	643'C'+55	CROSSROADS CLINIC RD LT	288	386	0.2	7	---	6	STH 23/82 INTERCHANGE STAGE I
92'H'+72	-	99'H'+25	CTH M RT	1,887	67	1.3	37	---	34	
92'H'+72	-	99'H'+25	CTH M LT	248	78	1.7	47	---	44	
101'H'+77	-	106'H'+50	CTH M RT	980	492	0.8	23	---	22	
101'H'+77	-	106'H'+50	CTH M LT	1,378	87	1.0	28	---	26	
91'J'+75	-	99'J'+26	EDGEWOOD CT RT	789	216	0.7	20	---	19	
91'J'+75	-	99'J'+26	EDGEWOOD CT LT	906	190	0.7	21	---	20	
101'J'+72	-	108'J'+75	EDGEWOOD CT RT	1,423	170	1.1	31	---	29	
101'J'+72	-	108'J'+75	EDGEWOOD CT LT	1,047	385	0.8	24	---	22	
UNDISTRIBUTED				30,397	31,994	24	587	146	149	
			TOTALS	**151,800**	**159,968**	**120**	**2,933**	**740**	**2,711**	

DELINEATORS

STATION	-	STATION	LOCATION	633.0100 DELINEATOR POSTS STEEL EACH	633.0500 DELINEATOR REFLECTORS EACH
638'SB'+00.00		663'SB'+00.00	LT	13	13
632'RCR'+67		649'RCR'+70	LT	32	47
651'RDR'+55		671'RDR'+50	LT	21	26
			TOTALS	66	86

MARKERS

STATION	633.5200 MARKERS CULVERT END EACH
650'RCR'+41	2
660'RDR'+00	2
663'RDR'+02	1
628'C'+00	2
634'C'+50	2
641'C'+65	2
TOTAL	11

REMOVING SIGNS

STATION	OFFSET	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
618'SB'+15	LT	---	1	1	SPEED LIMIT
619'SB'+00	LT	---	1	1	MILE MARKER
628'SB'+25	LT	---	1	3	GUIDE SIGN, I-39 SOUTH, USH 51 SOUTH, STH 23 WEST
649'SB'+55	LT	---	1	1	MERGE
652'SB'+31	LT	---	1	1	CLEARANCE MARKER
652'SB'+47	RT	---	1	1	CLEARANCE MARKER
657'SB'+34	LT	---	1	2	EXIT 106
671'SB'+75	LT	---	1	1	MILE MARKER
651'NB'+10	LT	---	1	1	CLEARANCE MARKER
651'NB'+27	RT	---	1	1	CLEARANCE MARKER
650'RDR'+16	RT	---	1	1	DO NOT ENTER
650'RDR'+16	RT	---	1	---	STOP
650'RDR'+16	RT	---	1	---	ONE WAY
650'RDR'+16	RT	---	1	---	ONE WAY
650'RDR'+18	RT	---	1	1	DO NOT ENTER
650'RDR'+18	RT	---	1	--	STOP
650'RDR'+21	RT	---	1	1	DOUBLE ARROW
650'RDR'+31	RT	---	1	1	DO NOT ENTER
650'RDR'+31	RT	---	1	---	STOP
650'RDR'+75	RT	---	1	1	GUIDE SIGN, EAST STH 23, WEST STH 82, ARROWS
651'RDR'+74	RT	---	1	1	WRONG WAY
652'RDR'+18	RT	---	1	2	DESTINATION, MONTELLO, PACKWAUKEE, OXFORD
652'RDR'+18	RT	---	1	---	WRONG WAY
657'RDR'+78	RT	---	1	1	STOP AHEAD
265'S'+69	LT	---	1	1	GUIDE SIGN, WEST STH 82
266'S'+06	RT	1	---	1	RAMP CLOSED, FOLDING, MOVE TO STATION 266'S'+19
266'S'+32	RT	---	1	2	GUIDE SIGN, SOUTH I-39, SOUTH USH 51, WEST STH 23, ARROWS
266'S'+32	RT	---	1	---	NO TURN
268'S'+00	LT	---	1	2	GUIDE SIGN , SOUTH I-39,SOUTH USH 51, WEST STH 23, ARROWS
268'S'+00	LT	---	1	---	NO TURN
268'S'+00	LT	---	1	---	NO TURN
268'S'+24	LT	1	---	1	RAMP CLOSED, FOLDING, MOVE TO STATION 267'S'+67
268'S'+50	RT	---	1	2	GUIDE SIGN, NORTH I-39, NORTH USH 51, EAST STH 23, ARROWS
629'C'+16	RT	---	1	2	ARROW
631'C'+91	RT	---	1	2	ARROW
637'C'+25	RT	---	1	1	REVERSE CURVE
637'C'+25	RT	---	1	---	ADVISORY SPEED 35 MPH
641'C'+05	LT	---	1	1	STOP
99'H'+10	LT	---	1	1	CLEARANCE MARKER
99'H'+10	RT	---	1	1	CLEARANCE MARKER
101'H'+91	LT	---	1	1	CLEARANCE MARKER
101'H'+92	RT	---	1	1	CLEARANCE MARKER
103'H'+48	RT	---	1	1	TURN RIGHT
103'H'+48	RT	---	1	---	ADVISORY SPEED 15 MPH
95'J'+71	LT	---	1	1	SPEED LIMIT
99'J'+12	LT	---	1	1	CLEARANCE MARKER
99'J'+12	RT	---	1	1	CLEARANCE MARKER
101'J'+86	LT	---	1	1	CLEARANCE MARKER
101'J'+86	RT	---	1	1	CLEARANCE MARKER
104'J'+31	LT	---	1	1	REDUCED SPEED AHEAD
104'J'+31	LT	---	1	--	ADVISORY SPEED 45 MPH
	TOTALS	2	49	48	

MOVING SIGNS

CURRENT STATION	NEW STATION	OFFSET	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS LB	635.0300 SIGN SUPPORTS REPLACING BASE CONNECTION BOLTS EACH	636.0100 SIGN SUPPORTS CONCRETE MASONRY CY	636.1000 SIGN SUPPORTS STEEL REIN-FORCEMENT HS LBS	638.2101 MOVING SIGNS TYPE I EACH	638.4100 MOVING STRUCTURALSTEEL SIGN SUPPORTS EACH	REMARKS
665'SB'+27	672'SB'+10	LT	147	8	2	98	1	2	EXIT 106, OXFORD
		TOTALS	**147**	**8**	**2**	**98**	**1**	**2**	

FIELD OFFICE

	642.5201 FIELD OFFICE TYPE C EACH
TOTAL	1

PERMANENT SIGNING

STATION	OFFSET	SIGN CODE	SIGN SIZE IN x IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4X6-INCH 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH 18-FT EACH	634.0620 POSTS WOOD 4X6-INCH 20-FT EACH
598'SB'+00	LT	R2-1	36"X48"	12.00	---	---	---	---	---	1	---
608'SB'+00	LT	J4-3	108"X54"	40.50	---	---	---	---	1	1	---
619'SB'+00	LT	D10-3	12"X48"	4.00	---	---	---	1	---	---	---
642'SB'+95	LT	W4-1	48"X48"	---	---	16.00	---	---	---	1	---
666'SB'+46	LT	E5-1A	90"X60"	37.50	---	---	---	---	---	2	---
671'SB'+75	LT	D10-3	12"X48"	4.00	---	---	---	1	---	---	---
650'RCR'+14	LT	R11-54F	48"X30"	---	10	---	---	1	---	---	---
650'RDR'+19	RT	R1-1	36"X36"	7.46	---	---	---	1	---	---	---
650'RDR'+21	LT	R5-1	30"X30"	6.25	---	---	---	1	---	---	---
650'RDR'+26	LT	R1-1	36"X36"	7.46	---	---	---	1	---	---	---
650'RDR'+26	LT	R6-2L	24"X30"	5.00	---	---	---	---	---	---	---
650'RDR'+26	LT	R6-2R	24"X30"	5.00	---	---	---	---	---	---	---
650'RDR'+30	LT	R5-1	30"X30"	6.25	---	---	---	1	---	---	---
650'RDR'+32	LT	R1-1	36"X36"	7.46	---	---	---	1	---	---	---
650'RDR'+34	RT	R5-1	30"X30"	6.25	---	---	---	1	---	---	---
651'RDR'+00	LT	W12-1D	30"X30"	---	---	6.25	---	1	---	---	---
652'RDR'+52	RT	R5-1A	36"X24"	6.00	---	---	---	1	---	---	---
652'RDR'+52	LT	J3-2	48"X57"	19.00	---	---	---	---	---	2	---
652'RDR'+52	LT	R5-1A	36"X24"	6.00	---	---	---	---	---	---	---
653'RDR'+58	LT	D1-3	84"X36"	21.00	---	---	---	---	2	---	---
660'RDR'+43	LT	W3-1	36"X36"	---	---	9.00	---	---	1	---	---
265'S'+00	LT	J4-1	24"X36"	6.00	---	---	---	1	---	---	---
265'S'+35	RT	R3-2	24"X24"	4.00	---	---	---	1	---	---	---
266'S'+19	RT	J3-3	72"X57"	28.50	---	---	---	---	---	---	2
267'S'+67	LT	J3-3	72"X57"	28.50	---	---	---	---	---	---	2
268'S'+35	LT	R3-1	24"X24"	4.00	---	---	---	1	---	---	---
268'S'+58	RT	J2-3	72"X57"	28.50	---	---	---	---	---	2	---
640'C'+97	LT	R1-1	36"X36"	7.46	---	---	---	1	---	---	---
99'H'+25	LT	W5-52L	12"X36"	---	---	3.00	1	---	---	1	---
99'H'+25	RT	W5-52R	12"X36"	---	---	3.00	1	---	---	---	---
101'H'+77	LT	W5-52R	12"X36"	---	---	3.00	1	---	---	---	---
101'H'+77	RT	W5-52L	12"X36"	---	---	3.00	1	---	---	---	---
103'H'+62	RT	W1-1R	36"X36"	---	---	9.00	---	---	1	---	---
103'H'+62	RT	W13-1	18"X18"	---	---	2.25	---	---	---	---	---
95'J'+56	LT	R2-1	24"X30"	5.00	---	---	---	---	1	---	---
99'J'+26	LT	W5-52L	12"X36"	---	---	3.00	1	---	---	1	---
99'J'+26	RT	W5-52R	12"X36"	---	---	3.00	1	---	---	1	---
101'J'+71	LT	W5-52R	12"X36"	---	---	3.00	1	---	---	1	---
101'J'+71	RT	W5-52L	12"X36"	---	---	3.00	1	---	---	1	---
104'J'+18	LT	W3-5	36"X36"	---	---	9.00	---	---	1	---	---
		TOTALS		**313.09**	**10.00**	**75.50**	**8**	**15**	**7**	**14**	**4**

TRAFFIC CONTROL

AREA	STAGE	LOCATION	DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	TRAFFIC CONTROL WARNING LIGHTS 643.0705 TYPE A EACH	TRAFFIC CONTROL WARNING LIGHTS 643.0705 TYPE A DAYS	TRAFFIC CONTROL WARNING LIGHTS 643.0715 TYPE C EACH	TRAFFIC CONTROL WARNING LIGHTS 643.0715 TYPE C DAYS	643.0800 TRAFFIC CONTROL ARROW BOARDS EACH	643.0800 TRAFFIC CONTROL ARROW BOARDS DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAYS
I39 SB AT FAWN COURT	STAGE 1A	MAINLINE	1	61	61	0	0	0	0	18	18	2	2	18	18
	STAGE 1B	MAINLINE	1	61	61	0	0	0	0	18	18	2	2	18	18
	STAGE 2A	MAINLINE	10	43	430	0	0	0	0	18	180	2	20	18	180
	STAGE 2A	FAWN CT	10	0	0	0	0	0		0	0	0	0	12	120
	STAGE 2B	MAINLINE	10	43	430	0	0	0	0	18	180	2	20	18	180
	STAGE 2B	FAWN CT	10	0	0	0	0	0	0	0	0	0	0	12	120
	STAGE 3A	MAINLINE	1	61	61	0	0	0	0	18	18	2	2	18	18
	STAGE 3B	MAINLINE	1	61	61	0	0	0	0	18	18	2	2	18	18
			SUBTOTALS		**1,104**		**0**		**0**		**432**		**48**		**672**
I39 NB (STH23/82 & FAWN CT)	STAGE 1A	MAINLINE	1	158	158	9	9	18	18	13	13	2	2	27	27
	STAGE 1B	MAINLINE	1	197	197	9	9	18	18	37	37	2	2	32	32
	STAGE 2A	MAINLINE	1	198	198	9	9	18	18	39	39	2	2	32	32
	STAGE 2B	MAINLINE	1	156	156	9	9	18	18	13	13	2	2	30	30
	STAGE 3A	MAINLINE	1	158	158	9	9	18	18	13	13	2	2	27	27
	STAGE 3B	MAINLINE	1	158	158	9	9	18	18	13	13	2	2	27	27
			SUBTOTALS		**1,025**		**54**		**108**		**128**		**12**		**175**
I39 AT CTH M	STAGE 1	MAINLINE	2	97	194	0	0	0	0	26	52	4	8	32	64
	STAGE 2	MAINLINE	7	37	259	0	0	0	0	0	0	0	0	28	196
	STAGE 3	MAINLINE	5	99	495	0	0	0	0	36	180	4	20	34	170
	STAGE 4	MAINLINE	20	93	1,860	0	0	0	0	35	700	4	80	34	680
	STAGE 5	MAINLINE	1	98	98	0	0	0	0	28	28	4	4	32	32
	ALL STAGES	CTH M	35	0	0	20	700	20	700	0	0	0	0	18	630
			SUBTOTALS		**2,906**		**700**		**700**		**960**		**112**		**1772**
I39 AT EDGEWOOD CT	STAGE 1	MAINLINE	2	98	196	0	0	0	0	27	54	4	8	32	64
	STAGE 2	MAINLINE	7	38	266	0	0	0	0	0	0	0	0	28	196
	STAGE 3	MAINLINE	5	95	475	0	0	0	0	35	175	4	20	34	170
	STAGE 4	MAINLINE	20	93	1,860	0	0	0	0	36	720	4	80	34	680
	STAGE 5	MAINLINE	1	97	97	0	0	0	0	27	27	4	4	32	32
	ALL STAGES	EDGEWOOD CT	35	0	0	16	560	16	560	0	0	0	0	14	490
			SUBTOTALS		**2,894**		**560**		**560**		**976**		**112**		**1632**
STH 23/82 INTERCHANGE	STAGE 1	MAINLINE SB	35	114	3,990	6	210	12	420	18	630	2	70	25	875
		MAINLINE NB	35	49	1,715	0	0	0	0	0	0	0	0	0	0
		RAMPS	35	26	910	0	0	0	0	0	0	0	0	4	140
		STH 23/82	35	23	805	0	0	0	0	0	0	2	70	6	210
		CROSSROADS CLINIC RD	35	0	0	10	350	14	490	0	0	0	0	9	315
	STAGE 2A	MAINLINE SB	25	49	1,225	3	75	4	100	0	0	0	0	18	450
		MAINLINE NB	25	49	1,225	0	0	0	0	0	0	0	0	0	0
		RAMPS	25	35	875	2	50	3	75	5	125	0	0	5	125
		BYPASS	25	0	0	0	0	0	0	0	0	0	0	7	175
		STH 23/82	25	54	1,350	0	0	0	0	0	0	2	50	6	150
	STAGE 2B	MAINLINE SB	60	8	480	0	0	0	0	0	0	0	0	15	900
		MAINLINE NB	60	49	2,940	0	0	0	0	0	0	0	0	0	0
		BYPASS	60	0	0	0	0	0	0	0	0	0	0	5	300
		C RAMP	60	23	1,380	0	0	0	0	0	0	0	0	1	60
		D RAMP	60	24	1,440	2	120	3	180	0	0	0	0	2	120
		STH 23/82	60	23	1,380	0	0	0	0	0	0	2	120	6	360
	STAGE 3	MAINLINE SB	15	113	1,695	6	90	12	180	18	270	2	30	26	390
		MAINLINE NB	15	49	735	0	0	0	0	0	0	0	0	0	0
		STH 23/82	15	21	315	0	0	0	0	0	0	2	30	6	90
	STAGE 4	STH 23/82	2	0	0	0	0	0	0	0	0	0	0	8	16
	STAGE 5A	STH 23/82	5	26	130	1	5	2	10	10	50	0	0	17	85
	STAGE 5B	STH 23/82	5	26	130	1	5	2	10	10	50	0	0	17	85
			SUBTOTALS		**22,720**		**905**		**1465**		**1125**		**370**		**4,846**
ALTERNATE ROUTE DETOUR		OVERVIEW SHEET	35	0	0	0	0	0	0	0	0	0	0	44	1,540
		STH 23/82 INTERCHANGE	35	0	0	0	0	0	0	0	0	0	0	10	350
		CITY OF MONTELLO	35	0	0	0	0	0	0	0	0	0	0	34	1190
		CITY OF WAUTOMA	35	0	0	0	0	0	0	0	0	0	0	12	420
		IH39/STH21 INTERCHANGE	35	0	0	0	0	0	0	0	0	0	0	12	420
			SUBTOTALS		**0**		**0**		**0**		**0**		**0**		**3,920**
			TOTALS		**30,649**		**2,219**		**2,833**		**3,621**		**654**		**13,017**

TRAFFIC CONTROL SIGNS PCMS

STAGE	DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAYS	SPV.0045.01 PCMS CELLULAR COMMUNICATIONS DAYS	REMARKS
DURATION OF NB CONSTRUCTION	80	1	80	80	MILE MARKER 99.0 IH 39 NB
DURATION OF SB CONSTRUCTION	140	1	140	140	MILE MARKER 116.2 IH 39 SB
UNDISTRIBUTED			20	20	
	TOTALS		240	240	

TRAFFIC CONTROL DETOUR ITEMS

STAGE	DAYS	643.2000 TRAFFIC CONTROL DETOUR (PROJECT) EACH	643.3000 TRAFFIC CONTROL DETOUR SIGNS EACH	643.3000 TRAFFIC CONTROL DETOUR SIGNS DAYS
STH 23/82 DETOUR	8	1	94	752
	TOTALS	1		752

REMOVING PAVEMENT MARKING

STA.	-	STA.	LOCATION	646.0600 REMOVING PAVEMENT MARKING LF	REMARKS
618SB+19	-	630SB+82	IH 39 SB AT RCR RAMP	1,263	STAGE 2A
			TOTAL	1,263	

TRAFFIC CONTROL COVERING SIGNS

SIGN NUMBER ON INTERCHANGE DETOUR DETAIL	SIGN COVERED	# COVERING CYCLES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH
2	STH 82 WEST	8	8
2	OXFORD	8	8
3	STH 82 WEST	8	8
3	OXFORD	8	8
5	STH 23 EAST	8	8
5	MONTELLO	8	8
6	STH 23 EAST	8	8
6	MONTELLO	8	8
8	STRAIGHT ARROW	8	8
8	STRAIGN ARROW	8	8
8	STRAIGHT ARROW	8	8
9	STRAIGHT ARROW	8	8
19	LEFT ARROW	8	8
11	J-BOARD	8	8
12	J-BOARD	8	8
14	STRAIGHT ARROW	8	8
17	LEFT ARROW	8	8
15	STRAIGHT ARROW	8	8
15	STRAIGHT ARROW	8	8
15	STRAIGHT ARROW	8	8
15	STRAIGHT ARROW	8	8
18	LEFT ARROW	8	8
20	LEFT ARROW	8	8
	TOTALS		184

PAVEMENT MARKING ITEMS

STATION	-	STATION	LOCATION	646.0106 EPOXY 4-INCH YELLOW LF	646.0106 EPOXY 4-INCH WHITE LF	646.0106 EPOXY 4-INCH DOUBLE YELLOW LF	646.0106 EPOXY 4-INCH 12.5' LINE, 37.5' GAP WHITE LF	646.0126 EPOXY 8-INCH WHITE LF	646.0841.S PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH 12.5' LINE, 37.5' GAP WHITE LF	646.0881.S PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH 12.5' LINE, 37.5' GAP WHITE LF	646.0881.S PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH 3' LINE, 9' GAP WHITE LF	646.0883.S PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH WHITE LF	647.0566 STOP LINE EPOXY 18-IN LF
638'SB'+00	-	663'SB'+00	MEDIAN LINE	2,500	---	---	---	---	---	---	---	---	---
638'SB'+00	-	663'SB'+00	EDGE LINE	---	2,500	---	---	---	---	---	---	---	---
638'SB'+00	-	650'SB'+67	LANE LINE	---	---	---	---	---	---	325	---	---	---
650'SB'+67	-	652'SB'+62	LANE LINE	---	---	---	---	---	50	---	---	---	---
652'SB'+62	-	663'SB'+00	LANE LINE	---	---	---	---	---	---	263	---	---	---
745'SB'+32	-	747'SB'+84	MEDIAN LINE	252	---	---	---	---	---	---	---	---	---
745'SB'+32	-	747'SB'+84	EDGE LINE	---	252	---	---	---	---	---	---	---	---
745'SB'+32	-	746'SB'+06	LANE LINE	---	---	---	---	---	---	25	---	---	---
746'SB'+06	-	747'SB'+09	LANE LINE	---	---	---	---	---	38	---	---	---	---
747'SB'+09	-	747'SB'+84	LANE LINE	---	---	---	---	---	---	25	---	---	---
651'NB'+39	-	652'NB'+78	MEDIAN LINE	139	---	---	---	---	---	---	---	---	---
651'NB'+39	-	652'NB'+78	EDGE LINE	---	139	---	---	---	---	---	---	---	---
651'NB'+39	-	652'NB'+78	LANE LINE	---	---	---	25	---	---	---	---	---	---
746'NB'+08	-	747'NB'+16	MEDIAN LINE	108	---	---	---	---	---	---	---	---	---
746'NB'+08	-	747'NB'+16	EDGE LINE	---	108	---	---	---	---	---	---	---	---
746'NB'+08	-	747'NB'+16	LANE LINE	---	---	---	25	---	---	---	---	---	---
618'RCR'+19	-	650'RCR'+19	EDGE LINE, LT	---	3,200	---	---	---	---	---	---	---	---
626'RCR'+30	-	630'RCR'+81	EDGE EXTENSION DOTTED	---	---	---	---	---	---	---	114	---	---
630'RCR'+81	-	636'RCR'+41	CHANNELIZING RAMP	---	---	---	---	---	---	---	---	1,075	---
636'RCR'+40	-	637'RCR'+97	IH 39 SB EDGE LANE - TO BE MARKED WITH RAMP PAVEMENT	---	158	---	---	---	---	---	---	---	---
637'RCR'+41	-	650'RCR'+47	EDGE LINE, RT	1,410	---	---	---	---	---	---	---	---	---
650'RDR'+17			STOP LINE	---	---	---	---	---	---	---	---	---	32
650'RDR'+23			STOP LINE	---	---	---	---	---	---	---	---	---	32
650'RDR'+17	-	651'RDR'+54	CHANNELIZING ISLAND	---	---	---	---	181	---	---	---	---	---
650'RDR'+17	-	666'RDR'+35	EDGE LINE, RT	1,616	---	---	---	---	---	---	---	---	---
650'RDR'+27	-	671'RDR'+80	EDGE LINE, LT	---	2,170	---	---	---	---	---	---	---	---
663'RDR'+27	-	666'RDR'+37	IH 39 SB EDGE LANE - TO BE MARKED WITH RAMP PAVEMENT	---	334	---	---	---	---	---	---	---	---
666'RDR'+35	-	670'RDR'+17	CHANNELIZING RAMP	---	---	---	---	---	---	---	---	735	---
670'RDR'+17	-	671'RDR'+80	EDGE EXTENSION DOTTED	---	---	---	---	---	---	---	42	---	---
264'S'+80	-	265'S'+81	EDGE LINE, LT	---	101	---	---	---	---	---	---	---	---
267'S'+58	-	268'S'+03	EDGE LINE, LT	---	45	---	---	---	---	---	---	---	---
625'C'+00	-	643'C'+55	CENTERLINE	---	---	3,710	---	---	---	---	---	---	---
92'H'+72	-	106'H'+50	CENTERLINE	---	---	2,756	---	---	---	---	---	---	---
92'H'+72	-	106'H'+50	EDGE LINES, LT AND RT	2,756	---	---	---	---	---	---	---	---	---
91'J'+75	-	108'J'+75	CENTERLINE	---	---	3,400	---	---	---	---	---	---	---
91'J'+75	-	108'J'+75	EDGE LINES, LT AND RT	---	3,400	---	---	---	---	---	---	---	---
			SUBTOTALS	**8,781**	**12,407**	**9,866**	**50**	**181**	**88**	**638**	**156**	**1,810**	**64**
			TOTALS			**31,104**		**181**	**88**	**794**		**1,810**	**64**

PAVEMENT MARKING ITEMS

STATION	647.0186 ARROWS EPOXY TYPE 4 EACH
650'RDR'+77	1
TOTAL	**1**

PAVEMENT MARKING ITEMS

STATION	-	STATION	LOCATION	647.0456 PAVEMENT MARKING CURB EPOXY YELLOW LF	647.0606 PAVEMENT MARKING ISLAND NOSE EPOXY YELLOW EACH
650'RDR'+11	-	651'RDR'+19	RAMP D ISLAND	245	3
			TOTALS	**245**	**3**

TEMPORARY PAVEMENT MARKING

				TEMPORARY PAVEMENT MARKING					REMOVABLE TAPE					
				649.0100 4-INCH DASHED WHITE 12.5' LINE, 37.5' SKIP		649.0100 4-INCH	649.0701 8-INCH	649.1100 STOP LINE 18-INCH	649.0400 4-INCH				649.0801 8-INCH	649.1400 24-INCH STOP LINE
AREA	STAGE	STA.	STA.	WHITE LF	WHITE LF	YELLOW LF	WHITE LF	WHITE LF	BLACK LF	WHITE LF	WHITE 12.5' LINE, 37.5' SKIP LF	YELLOW LF	WHITE LF	WHITE LF
I39 SB AT FAWN	STAGE 1A	741SB+05	777SB+30	---	---	---	---	---	225	---	---	3,849	---	---
	STAGE 1B	741SB+05	777SB+30	---	---	---	---	---	---	3,624	---	---	---	---
	STAGE 2A	741SB+82	766SB+50	---	---	---	---	---	1,823	2,294	---	1,863	---	---
	STAGE 2B	741SB+82	766SB+50	---	---	---	---	---	1,836	1,861	---	2,294	---	---
	STAGE 3A	741SB+05	777SB+30	---	---	---	---	---	---	3,624	---	---	---	---
	STAGE 3B	741SB+05	777SB+30	---	---	---	---	---	---	---	---	3,624	---	---
			AREA SUBTOTALS	0	0	0	0	0	3,884	11,403	0	11,630	0	0
					0		**0**	**0**			**26,917**		**0**	**0**
I39 NB (STH23/82 & FAWN CT)	STAGE 1A	617NB+58	627NB+18	---	---	---	---	---	238	---	---	---	---	---
		617NB+58	657NB+00	---	---	---	---	---	---	---	---	3,941	---	---
		647NB+50	655NB+90	---	---	---	---	---	840	---	---	---	---	---
		740NB+00	752NB+15	---	---	---	---	---	866	---	---	1,172	---	---
	STAGE 1B	617NB+58	620NB+58	---	---	---	---	---	75	---	---	---	---	---
		617NB+58	629NB+65	---	---	---	---	---	---	1,210	---	---	---	---
		627NB+68	631NB+00	---	---	---	---	---	88		---	---	---	---
		632NB+20	657NB+00	---	---	---	---	---	---	2,171	---	---	731	---
		668NB+60	674NB+25	---	---	---	---	---	88	451	---	108	201	---
		740NB+00	752NB+15	---	---	---	---	---	966	1,172	---	---	---	---
	STAGE 2A	647NB+50	656NB+89	---	---	---	---	---	---	939	---	939	---	---
		741NB+50	751NB+15	---	---	---	---	---	---	817	---	966	---	---
	STAGE 2B	617NB+58	656NB+89	---	---	---	---	---	---	939	---	3,931	---	---
		741NB+50	751NB+15	---	---	---	---	---	---	966	---	818	---	---
	STAGE 3A	617NB+58	657NB+00	---	---	---	---	---	---	---	---	3,941	---	---
		740NB+50	752NB+15	---	---	---	---	---	---	---	---	1,172	---	---
	STAGE 3B	617NB+58	657NB+00	---	---	---	---	---	---	---	---	3,941	---	---
		740NB+50	752NB+15	---	---	---	---	---	---	---	---	1,172	---	---
			AREA SUBTOTALS	0	0	0	0	0	3,160	8,665	0	22,101	932	0
					0		**0**	**0**			**33,926**		**932**	**0**
I39 AT CTH M	STAGE 1	849NB+15	855NB+75	---	---	---	---	---	163	---	---	---	---	---
		849NB+15	875NB+50	---	---	---	---	---	---	---	---	2,636	---	---
		862SB+70	889SB+05	---	---	---	---	---	---	2,635	---	---	---	---
		882SB+45	889SB+05	---	---	---	---	---	163	---	---	---	---	---
	STAGE 3	847NB+15	875NB+15	---	---	---	---	---	---	2,800	---	---	---	---
		847NB+15	855NB+95	---	---	---	---	---	225	---	---	---	---	---
		863NB+95	874NB+15	---	---	---	---	---	1,020	---	---	1,020	---	---
		862SB+75	890SB+90	---	---	---	---	---	---	2,800	---	---	---	---
		863SB+90	874SB+10	---	---	---	---	---	---	---	---	1,020	---	---
		863SB+90	874SB+20	---	---	---	---	---	1,030	---	---	---	---	---
		882SB+10	890SB+90	---	---	---	---	---	225	---	---	---	---	---
	STAGE 4	847NB+15	875NB+15	---	---	---	---	---	---	---	---	2,801	---	---
		863NB+95	874NB+15	---	---	---	---	---	1,020	1,020	---	---	---	---
		862SB+75	890SB+90	---	---	---	---	---	---	---	---	2,801	---	---
		863SB+90	874SB+10	---	---	---	---	---	---	1,020	---	---	---	---
		863SB+90	874SB+20	---	---	---	---	---	1,030	---	---	---	---	---
	STAGE 5	849NB+35	875NB+15	---	---	---	---	---	---	2,581	---	---	---	---
		862SB+90	888SB+70	---	---	---	---	---	---	2,581	---	---	---	---
			AREA SUBTOTALS	0	0	0	0	0	4,875	15,437	0	10,278	0	0
					0		**0**	**0**			**30,590**		**0**	**0**

TEMPORARY PAVEMENT MARKING (CONT.)

				TEMPORARY PAVEMENT MARKING					REMOVABLE TAPE					
				649.0100		649.0100	649.0701	649.1100	649.0400				649.0801	649.1400
				4-INCH		4-INCH	8-INCH	STOP LINE	4-INCH				8-INCH	24-INCH
				DASHED WHITE				18-INCH	WHITE					STOP LINE
				WHITE	12.5' LINE, 37.5' SKIP	YELLOW	WHITE	WHITE	BLACK	WHITE	12.5' LINE, 37.5' SKIP	YELLOW	WHITE	WHITE
				LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
I39 AT EDGEWOOD CT	STAGE 1	928NB+45	- 935NB+05	---	---	---	---	---	163	---	---	---	---	---
		928NB+45	- 954NB+65	---	---	---	---	---	---	---	---	2,622	---	---
		942SB+00	- 968SB+19	---	---	---	---	---	---	---	---	2,622	---	---
		961SB+59	- 968SB+19	---	---	---	---	---	163	---	---	---	---	---
	STAGE 3	926NB+35	- 935NB+15	---	---	---	---	---	225	---	---	---	---	---
		926NB+35	- 954NB+45	---	---	---	---	---	---	2,811	---	---	---	---
		943NB+15	- 953NB+45	---	---	---	---	---	1,030	---	---	1,030	---	---
		942SB+10	- 970SB+20	---	---	---	---	---	---	2,810	---	---	---	---
		943SB+10	- 953SB+40	---	---	---	---	---	1,030	---	---	1,030	---	---
		961SB+40	- 970SB+20	---	---	---	---	---	225	---	---	---	---	---
	STAGE 4	926NB+35	- 954NB+45	---	---	---	---	---	---	---	---	2,811	---	---
		943NB+15	- 953NB+45	---	---	---	---	---	1,030	1,031	---	---	---	---
		942SB+10	- 970SB+20	---	---	---	---	---	---	---	---	2,811	---	---
		943SB+10	- 953SB+40	---	---	---	---	---	1,030	1,030	---	---	---	---
	STAGE 5	929NB+55	- 954NB+45	---	---	---	---	---	---	2,591	---	---	---	---
		942SB+10	- 968SB+00	---	---	---	---	---	---	2,590	---	---	---	---
			AREA SUBTOTALS	0	0	0	0	0	4,895	12,863	0	12,926	0	0
					0		**0**	**0**			**30,684**		**0**	**0**
STH 23/82 INTERCHANGE	STAGE 1	609SB+10	- 638SB+00	---	---	---	---	---	---	---	---	3,063	---	---
		638SB+00	- 663SB+00	---	---	2,500	---	---	---	---	---		---	---
		663SB+00	- 697SB+38	---	---	---	---	---	---	---	---	3,290	---	---
		688SB+58	- 697SB+38	---	---	---	---	---	225	---	---	---	---	---
	STAGE 2A	611SB+00	- 618SB+00	---	---	---	---	---	175	1,422	---	711	---	---
		618SB+00	- 625SB+00	---	---	---	---	---	---	857	138	700	---	---
		625SB+00	- 638SB+00	---	---	---	---	---	---	2,195	---	---	110	---
		659SB+90	- 680SB+38	---	---	---	---	---	475	3,149	---	---	206	---
		675SB+00	- 680SB+38	---	---	---	---	---	---	538	---	---	---	---
		677SB+00	- 680SB+38	---	---	---	---	---	---	---	---	338	---	---
			BYPASS	6,583	650	6,615	314	---	---	---	---	---	---	---
			SB ON RAMP	1,692	---	719	---	---	---	---	---	---	---	---
			SB OFF RAMP	170	---	159	---	72	---	---	---	---	---	---
	STAGE 2B		C RAMP	---	---	---	---	---	---	1,376	---	---	---	---
			D RAMP	---	---	---	---	---	---	415	---	109	204	---
	STAGE 3	610SB+89	- 697SB+38	---	---	---	---	---	---	---	---	8,750	---	---
	STAGE 5A	268S+88	- 270S+28	---	---	---	---	---	280	---	---	---	---	12
		269S+85	- 272S+65	---	---	---	---	---	---	287	---	---	---	
		272S+23	- 273S+63	---	---	---	---	---	280		---	---	---	
		268S+88	- 273S+63	---	---	---	---	---	475	476	---	---	---	12
	STAGE 5B	268S+88	- 273S+63	---	---	---	---	---	475	476	---	---	---	---
		269S+85	- 272S+65	---	---	---	---	---	---	288	---	---	---	---
			AREA SUBTOTALS	8,445	650	9,993	314	72	2,385	11,479	138	16,961	520	24
					19,088		**314**	**72**			**30,963**		**520**	**24**
			TOTALS		**19,088**		**314**	**72**			**153,079**		**1,452**	**24**

CONSTRUCTION STAKING

STA.	-	STA.	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERT EACH	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	REMARKS
103'SBT'+56	-	143'SBT'+87	6	4,031	4,031	---	---	1	4,031	
145'SBT'+23	-	173'SBT'+09	5	2,786	2,786	---	---	---	2,786	
645'CT'+18	-	651'CT'+51	---	634	634	---	1	---	634	
652'DT'+18	-	653'DT'+60	---	142	142	---	---	---	142	
638'SB'+00	-	645'SB'+00	---	700	700	---	---	---	700	
645'SB'+00	-	650'SB'+71	---	571	571	---	---	---	571	
652'SB'+66	-	658'SB'+00	4	534	534	---	---	---	534	
658'SB'+00	-	663'SB'+00	---	500	500	---	---	---	500	
618'RCR'+19	-	650'RCR'+80	---	3,261	3,261	142	1	---	3,261	
650'RDR'+00	-	671'RDR'+80	---	2,180	2,180	406	4	---	2,180	
650'RDR'+69	-	671'RDR'+80	---	2,111	2,111	---	---	---	2,111	
625'C'+00	-	643'C'+55	---	1,855	1,855	---	7	---	1,855	
92'H'+72	-	99'H'+25	---	653	653	---	---	---	653	
101'H'+77	-	106'H'+50	4	473	473	---	---	---	473	
91'J'+75	-	99'J'+26	---	751	751	---	---	---	751	
101'J'+72	-	108'J'+75	4	703	703	---	---	---	703	
		TOTALS	**23**	**21,884**	**21,884**	**548**	**13**	**1**	**21,884**	

RAMP GATE

STA.	OFFSET	-	STA.	OFFSET	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-IN LF	653.0135 PULL BOXES STEEL 24x36-INCH EACH	654.0105 CONCRETE BASES TYPE 5 EACH	654.0220 CONCRETE CONTROL CABINET BASES TYPE 10 EACH	SPV.0060.01 SALVAGED PEDESTAL BASE EACH	SPV.0060.02 SALVAGED TRANSFORMER BASE EACH	SPV.0060.03 SALVAGED TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	SPV.0060.04 SALVAGED RAMP CLOSURE GATES SOLAR 24-FT EACH
650'RCR'+07	25.5' LT				---	---	---	1	1	---	1	---
650'RCR'+10	24.0' LT		650'RCR'+14	25.3' LT	24	---	---	---	---	---	---	---
650'RCR'+14	25.3' LT		650'RCR'+18	23.7' LT	16	---	---	---	---	---	---	---
650'RCR'+14	25.3' LT		650'RCR'+18	29.3' RT	114	---	---	---	---	---	---	---
650'RCR'+14	25.3' LT				---	1	---	---	---	---	---	---
650'RCR'+14	29.7' RT				---	1	---	---	---	---	---	---
650'RCR'+18	23.7' LT				---	---	1	---	---	1	---	1
650'RCR'+18	29.3' RT				---	---	1	---	---	1	---	1
			TOTALS		**154**	**2**	**2**	**1**	**1**	**2**	**1**	**2**

TEMPORARY TRAFFIC SIGNALS

AREA	STAGE	STATION	-	STATION	LOCATION	661.0100 TEMPORARY SIGNAL FOR BRIDGES LS
STH 23/82 INTERCHANGE	STAGE 5A	268S+40	-	273S+20	STH 23/82 - STRUCTURE B-39-26	1
				TOTALS		1

REMOVING SIGN

LOCATION		SPV.0060.07 REMOVING SIGN AND FOUNDATION EACH
656'RDR'+38	117' RT	1
	TOTAL	1

SAWING PAVEMENT

STATION	-	STATION	LOCATION	690.0150 SAWING ASPHALT LF
638'SB'+00			SB IH 39	35
663'SB'+00			SB IH 39	29
745'SB'+32			SB IH 39	38
747'SB'+84			SB IH 39	44
618'SB'+19	-	638'SB'+00	RCR RAMP	1,981
666'SB'+66	-	671'SB'+79	RDR RAMP	514
266'S'+27	-	267'S'+44	STH 23/82 AT RAMP C	117
264'S'+72	-	267'S'+99	STH 23/82 AT RAMP D	328
625'C'+00			CROSSROADS CLINIC ROAD	23
626'C'+75			CROSSROADS CLINIC ROAD DRIVEWAY	49
641'C'+32			FERN ROAD	22
643'C'+55			CROSSROADS CLINIC ROAD	22
92'H'+72			CTH M	24
106'H'+50			CTH M	33
91'J'+75			EDGEWOOD CT	22
93'J'+25			DRIVEWAY LT	24
105'J'+93			DRIVEWAY LT	16
108'J'+75			EDGEWOOD CT	22
UNDISTRIBUTED				40
			TOTAL	3,383

DOT COMPOSITE: ORIGINAL DOCUMENT LOCATED AT THE REGISTER OF DEEDS OFFICE

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN MARQUETTE COUNTY, WISCONSIN AT 8:00AM ON April 8, 2014 AS DOCUMENT # 298169 AND FILED IN Plats Slide 83

Renee L Krueger
SIGNATURE OF REGISTER OF DEEDS

298169

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
PROJECT NO. 1166-07-26
PACKWAUKEE - COLOMA
B-39-9, 10, 26, 27, 28, 29

IH 39
MARQUETTE COUNTY



THE NOTES, CONVENTIONAL SYMBOLS AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 1166-07-26.

NOTES:

DISTANCES SHOWN FROM THE RIGHT OF WAY LINE TO BUILDINGS ARE APPROXIMATE ONLY.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MARQUETTE COUNTY, NAD 83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES. GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER SURVEYS OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW R/W IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. EXCLUDING RIGHT OF WAY LINES, THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

ALL RIGHT OF WAY LINES DEPICTED IN NON-AQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT OF WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS OR FROM CENTERLINE OF EXISTING PAVEMENT.

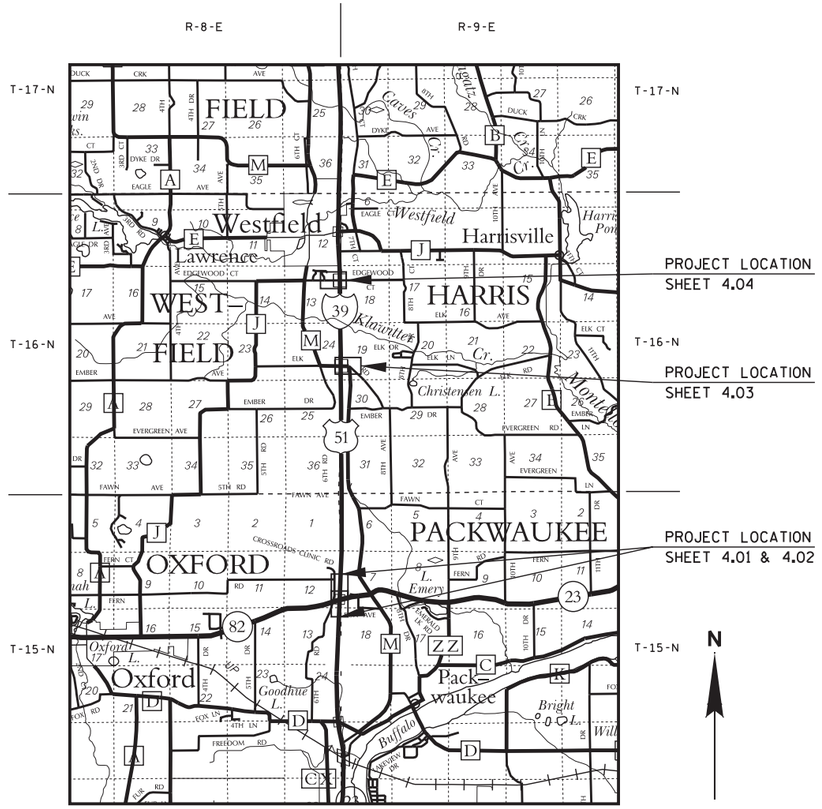
RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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'S EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING RIGHT OF WAY FOR I-39 IS ESTABLISHED FROM PREVIOUS PROJECTS T 05-2(24), F 05-2(25) AND 1166-04-21.
EXISTING RIGHT OF WAY FOR STH 82 IS ESTABLISHED BY DIVISION JOB 4817.
EXISTING RIGHT OF WAY FOR CROSSROADS CLINIC ROAD IS ESTABLISHED BY CSM 3457 AND CENTERLINE OF EXISTING PAVEMENT.
EXISTING RIGHT OF WAY FOR FERN DRIVE IS ESTABLISHED BY CSM 2222.
EXISTING RIGHT OF WAY FOR CTH M AND EDGEWOOD COURT ESATBLISHED FROM PREVIOUS PROJECT 1166-06-23.

EXISTING ACCESS CONTROL FOR I-39 ESTABLISHED FROM PREVIOUS PROJECT T 05-2(24) AND F 05-2(25).
EXISTING ACCESS CONTROL FOR CTH M AND EDGEWOOD COURT ESATBLISHED FROM PREVIOUS PROJECT 1166-06-23.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION OFFICE IN WISCONSIN RAPIDS AND THE MARQUETTE COUNTY HIGHWAY DEPARTMENT.



LAYOUT
SCALE 0 2 MI. 4 MI.

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	I.P. (IF UNLESS NOTED)
R/W MONUMENT	● (SET)
R/W STANDARD	△ ▲ (SET)
NON-MONUMENT R/W POINT	○
SIGN	| SIGN
SECTION CORNER MONUMENT	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	100
TEMPORARY EASEMENT POINT	100
FOUND PROPERTY IRON	41
PARCEL NUMBER	102
UTILITY NUMBER	130
SIGN NUMBER (OFF PREMISE)	21-1

PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
LOT & TIE LINES	
SLOPE INTERCEPTS	
CORPORATE LIMITS	
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)	
NO ACCESS (BY ACQUISTION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
EXISTING CENTERLINE	
PROPOSED REFERENCE LINE	
PARALLEL OFFSET	
BUILDING	
BUILDING TO BE RAZED	

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	POINT OF CURVATURE	PC
ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC.	POINT OF REVERSE CURVATURE	PRC
AGRICULTURAL P.D.	AGRI. PD.	PRIVATE DRIVEWAY	P.D.
AHEAD	AH	POINT ON TANGENT	POT
ALUMINUM	ALUM.	POINT OF TANGENCY	PT
AND OTHERS	ET.AL.	PROPERTY LINE	P.L.
BACK	BK	RECORDED AS	(100')
BLOCK	BLK	REFERENCE LINE	R/L
CENTERLINE	C/L	REMAINING	REM.
CERTIFIED SURVEY MAP	CSM	RIGHT	RT.
CONCRETE	CONC.	RIGHT OF WAY	R/W
CORNER	COR.	SECTION	SEC.
COUNTY	CO.	SEPTIC VENT	SEPV.
COUNTY TRUNK HIGHWAY	CTH	SQUARE FEET	S.F.
DIRECTION AHEAD	DA	STATE TRUNK HIGHWAY	STH
DIRECTION BACK	DB	STATION	STA.
DISTANCE	DIST.	SUBDIVISION	SUBD.
DOCUMENT NUMBER	DOC.	TANGENT	TAN.
EASEMENT	EASE.	TELEPHONE PEDESTAL	T.P.
ELECTRIC PEDESTAL	E.P.	TEMPORARY LIMITED EASEMENT	TLE
EXISTING	EX.	TRANSPORTATION PROJECT PLAT	TPP
GAS VALVE	G.V.	UNITED STATES HIGHWAY	USH
GOVERNMENT	GOV'T	VOLUME	VOL.
GRID NORTH	GN		
HIGHWAY EASEMENT	H.E.		
IDENTIFICATION	ID.		
IRON PIPE	I.P.		
LAND CONTRACT	LC		
LEFT	LT.		
MONUMENT	MON.		
NUMBER	NO.		
OUTLOT	O.L.		
PAGE	PG.		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA

LONG CHORD	L.C.
LONG CHORD BEARING	L.C.B.
RADIUS	R.
DEGREE OF CURVE	D.
CENTRAL ANGLE OR DELTA	Δ.
LENGTH OF CURVE	L.
TANGENT	T.
DIRECTION AHEAD	DA.
DIRECTION BACK	DB.

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
SANITARY FORCE MAIN	FM

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
UTILITY PEDESTAL		
ELECTRIC TOWER		

HIGHWAY DESIGNATIONS

COUNTY TRUNK HIGHWAY	G
STATE TRUNK HIGHWAY	67
UNITED STATES HIGHWAY	51
INTERSTATE HIGHWAY	39

PROJECT NUMBER 1166-07-26 - 4.01
SHEET 2 OF 2

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

DOT COMPOSITE: ORIGINAL DOCUMENT LOCATED AT THE REGISTER OF DEEDS OFFICE

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
1	GRANT FARMS CORPORATION, LARRY J. GRANT	FEE & TLE	0.146	-----	0.146	0.022
2	LARRY J. GRANT	FEE & TLE	0.058	-----	0.058	0.067

TRANSPORTATION PROJECT PLAT NO: 1166-07-26 - 4.01

THAT PART OF THE SE 1/4 OF THE SE 1/4, OF SECTION 12 AND ALSO THAT PART OF THE NE 1/4 OF THE NE 1/4, OF SECTION 13, ALL IN T 15 N, R 8 E, TOWN OF OXFORD, MARQUETTE COUNTY, WISCONSIN.

RELOCATION ORDER IH 39/90 PACKWAUKEE - COLOMA (B-39-9, 10, 26, 27, 28, 29) MARQUETTE 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 SUBSECTIONS 84.02 (3), 84.09, AND 84.30, 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.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN MARQUETTE COUNTY, WISCONSIN AT 8:00AM ON April 8, 2014 AS DOCUMENT # 298169 AND FILED IN Plats, Slide 83

SIGNATURE OF REGISTER OF DEEDS

298169

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1166-07-26-4.01
SHEET 1 OF 2
AMENDMENT NO:

I-39 NORTHBOUND ALIGNMENT

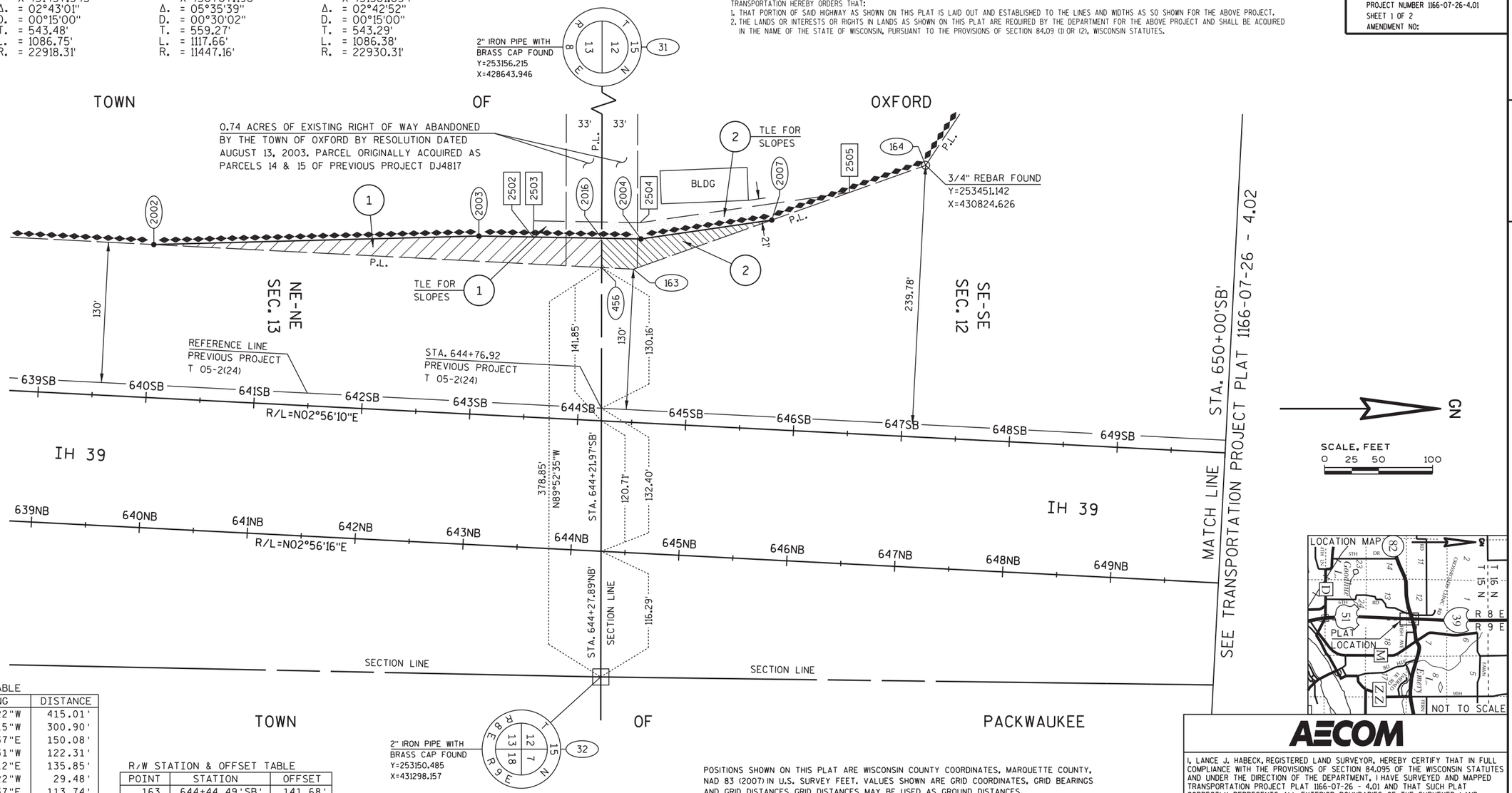
P.I. = 594+13.05'NB'
Y 248142.490
X 430924.852

P.I. = 698+02.87'NB'
Y 258518.651
X 431457.343
Δ. = 02°43'01"
D. = 00°15'00"
T. = 543.48'
L. = 1086.75'
R. = 22918.31'

I-39 SOUTHBOUND ALIGNMENT

P.I. = 575+12.41'SB'
Y 246249.626
X 430707.196
Δ. = 05°35'39"
D. = 00°30'02"
T. = 559.27'
L. = 1117.66'
R. = 11447.16'

P.I. = 706+78.66'SB'
Y 259399.481
X 431381.634
Δ. = 02°42'52"
D. = 00°15'00"
T. = 543.29'
L. = 1086.38'
R. = 22930.31'



GN

SCALE, FEET
0 25 50 100

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
456 - 2002	S02°56'22"W	415.01'
2002 - 2003	N01°30'15"W	300.90'
2003 - 2004	N01°01'37"E	150.08'
2004 - 2007	N08°12'31"W	122.31'
2007 - 163	S19°33'12"E	135.85'
163 - 456	S02°56'22"W	29.48'
2003 - 2016	N01°01'37"E	113.74'
2016 - 2004	N01°01'37"E	36.34'
164 - 163	S19°33'12"E	286.95'
163 - 2002	S02°56'22"W	444.49'
164 - 2007	S19°33'12"E	151.10'
31 - 32	S89°52'35"E	2654.22'
31 - 2016	S89°52'35"E	2248.22'
2016 - 456	S89°52'35"E	27.14'

R/W STATION & OFFSET TABLE

POINT	STATION	OFFSET
163	644+44.49'SB'	141.68'
164	647+09.61'SB'	251.44'
456	644+15.01'SB'	141.68'
2002	640+00.00'SB'	141.70'
2003	643+00.00'SB'	165.00'
2004	644+50.00'SB'	170.00'
2007	645+70.00'SB'	193.64'
2016	644+13.68'SB'	168.79'

TLE STATION & OFFSET TABLE

POINT	STATION	OFFSET
2502	643+50.00'SB'	166.67'
2503	643+50.00'SB'	181.67'
2504	644+48.29'SB'	184.95'
2505	646+40.45'SB'	222.81'

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MARQUETTE COUNTY, NAD 83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING RIGHT-OF-WAY FOR I-39 IS ESTABLISHED BY PREVIOUS PROJECTS T 05-2(24).

EXISTING ACCESS CONTROL ESTABLISHED FROM PREVIOUS PROJECT T 05-2(24).

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION OFFICE IN WISCONSIN RAPIDS.

AECOM

I, LANCE J. HABECK, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1166-07-26 - 4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Lance J. Habeck 4/02/2014
LANCE J. HABECK DATE
REGISTRATION NUMBER: S-1444

WISCONSIN LANCE J. HABECK S-1444 PLOVER, WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION.

Brent L Stella 4-3-14
PRINTED NAME SIGNATURE DATE

FILE NAME : $$....designfile....$$
APPRAISAL PLAT DATE : 04-02-2014

PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME :

PLOT SCALE : $$.....plotscale.....$$

1166-07-26 4.01

DOT COMPOSITE: ORIGINAL DOCUMENT LOCATED AT THE REGISTER OF DEEDS OFFICE

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
1	GRANT FARMS CORPORATION, LARRY J. GRANT	FEE & TLE	0.146	-----	0.146	0.022
2	LARRY J. GRANT	FEE & TLE	0.058	-----	0.058	0.067

TRANSPORTATION PROJECT PLAT NO: 1166-07-26 - 4.01

THAT PART OF THE SE 1/4 OF THE SE 1/4, OF SECTION 12 AND ALSO THAT PART OF THE NE 1/4 OF THE NE 1/4, OF SECTION 13, ALL IN T 15 N, R 8 E, TOWN OF OXFORD, MARQUETTE COUNTY, WISCONSIN.

RELOCATION ORDER IH 39/90 PACKWAUKEE - COLOMA (B-39-9, 10, 26, 27, 28, 29) MARQUETTE 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 SUBSECTIONS 84.02 (3), 84.09, AND 84.30, 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.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN MARQUETTE COUNTY, WISCONSIN AT 11:30AM ON 04-21-14 AS DOCUMENT # 298283 AND FILED IN 2 Plats, Slide 84

Barb L Krueger
SIGNATURE OF REGISTER OF DEEDS

298283

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1166-07-26-4.01
SHEET 1 OF 2
AMENDMENT NO:

I-39 NORTHBOUND ALIGNMENT

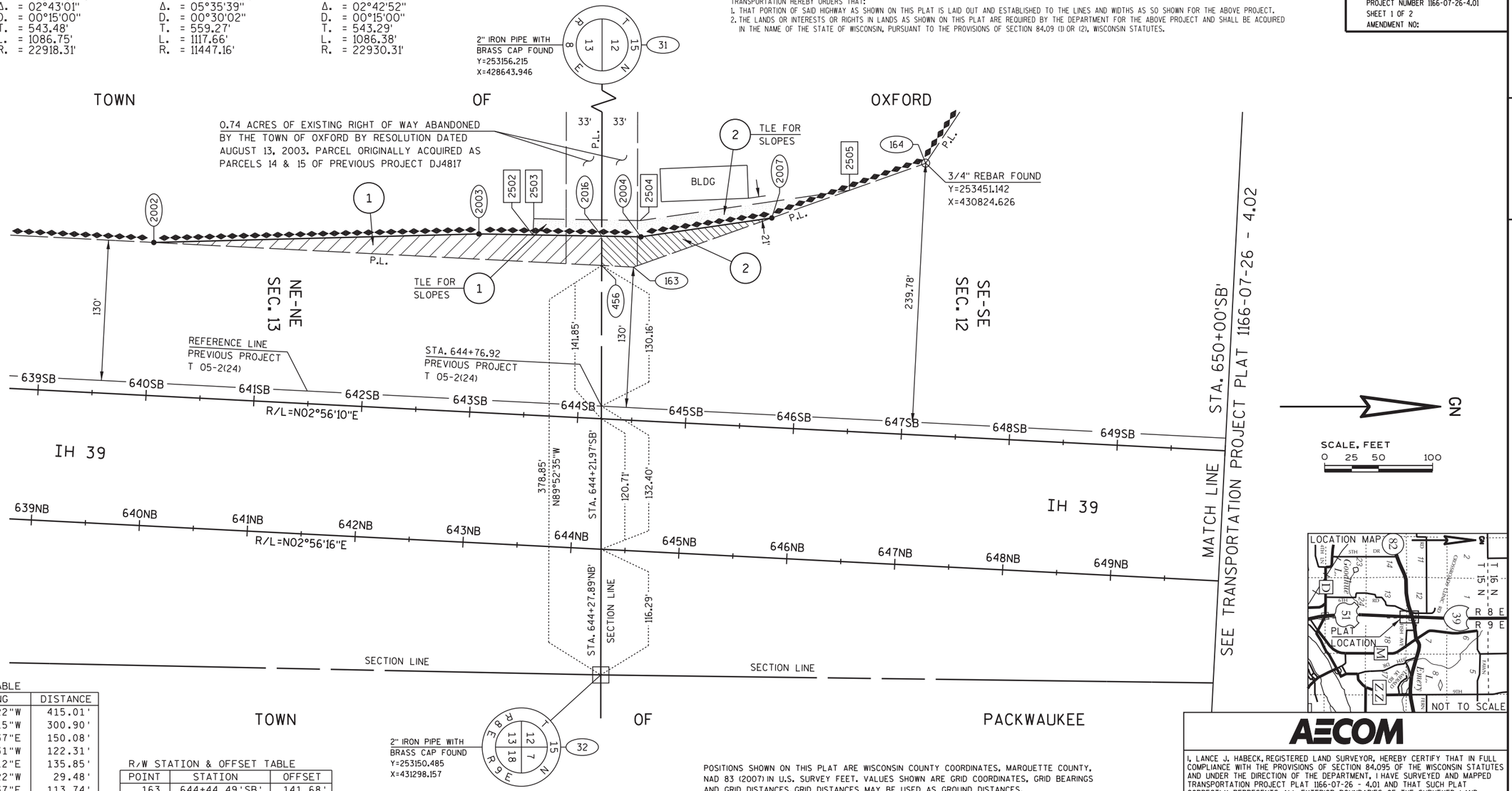
P.I. = 594+13.05'NB'
Y 248142.490
X 430924.852

P.I. = 698+02.87'NB'
Y 258518.651
X 431457.343
Δ. = 02°43'01"
D. = 00°15'00"
T. = 543.48'
L. = 1086.75'
R. = 22918.31'

I-39 SOUTHBOUND ALIGNMENT

P.I. = 575+12.41'SB'
Y 246249.626
X 430707.196
Δ. = 05°35'39"
D. = 00°30'02"
T. = 559.27'
L. = 1117.66'
R. = 11447.16'

P.I. = 706+78.66'SB'
Y 259399.481
X 431381.634
Δ. = 02°42'52"
D. = 00°15'00"
T. = 543.29'
L. = 1086.38'
R. = 22930.31'



RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
456 - 2002	S02°56'22"W	415.01'
2002 - 2003	N01°30'15"W	300.90'
2003 - 2004	N01°01'37"E	150.08'
2004 - 2007	N08°12'31"W	122.31'
2007 - 163	S19°33'12"E	135.85'
163 - 456	S02°56'22"W	29.48'
2003 - 2016	N01°01'37"E	113.74'
2016 - 2004	N01°01'37"E	36.34'
164 - 163	S19°33'12"E	286.95'
163 - 2002	S02°56'22"W	444.49'
164 - 2007	S19°33'12"E	151.10'
31 - 32	S89°52'35"E	2654.22'
31 - 2016	S89°52'35"E	2248.22'
2016 - 456	S89°52'35"E	27.14'

R/W STATION & OFFSET TABLE

POINT	STATION	OFFSET
163	644+44.49'SB'	141.68'
164	647+09.61'SB'	251.44'
456	644+15.01'SB'	141.68'
2002	640+00.00'SB'	141.70'
2003	643+00.00'SB'	165.00'
2004	644+50.00'SB'	170.00'
2007	645+70.00'SB'	193.64'
2016	644+13.68'SB'	168.79'

TLE STATION & OFFSET TABLE

POINT	STATION	OFFSET
2502	643+50.00'SB'	166.67'
2503	643+50.00'SB'	181.67'
2504	644+48.29'SB'	184.95'
2505	646+40.45'SB'	222.81'

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MARQUETTE COUNTY, NAD 83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES. GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING RIGHT-OF-WAY FOR I-39 IS ESTABLISHED BY PREVIOUS PROJECTS T 05-2(24).

EXISTING ACCESS CONTROL ESTABLISHED FROM PREVIOUS PROJECT T 05-2(24).

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION OFFICE IN WISCONSIN RAPIDS.

AECOM

I, LANCE J. HABECK, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1166-07-26 - 4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Lance J. Habeck 4/02/2014
LANCE J. HABECK DATE
REGISTRATION NUMBER: S-1444

WISCONSIN LANCE J. HABECK S-1444 PLOVER, WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION.

Brent L Stella Brent L Stella 14 4-16-14
PRINTED NAME SIGNATURE DATE

FILE NAME : $$....designfile....$$
APPRAISAL PLAT DATE : 04-02-2014

PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME :

PLOT SCALE : $$.....plotscale.....$$

1166-07-26 4.01

DOT COMPOSITE: ORIGINAL DOCUMENT LOCATED AT THE REGISTER OF DEEDS

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
6	THOMAS JOHN NIEBAUER & SUSAN JANE NIEBAUER	TLE	-----	-----	-----	0.065

TRANSPORTATION PROJECT PLAT NO: 1166-07-26 - 4.03

THAT PART OF THE FRACTIONAL N 1/2 OF THE SW 1/4, OF SECTION 19, T 16 N, R 9 E, TOWN OF HARRIS, MARQUETTE COUNTY, WISCONSIN.

RELOCATION ORDER IH 39/90 PACKWAUKEE - COLOMA (B-39-9, 10, 26, 27, 28, 29) MARQUETTE 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.

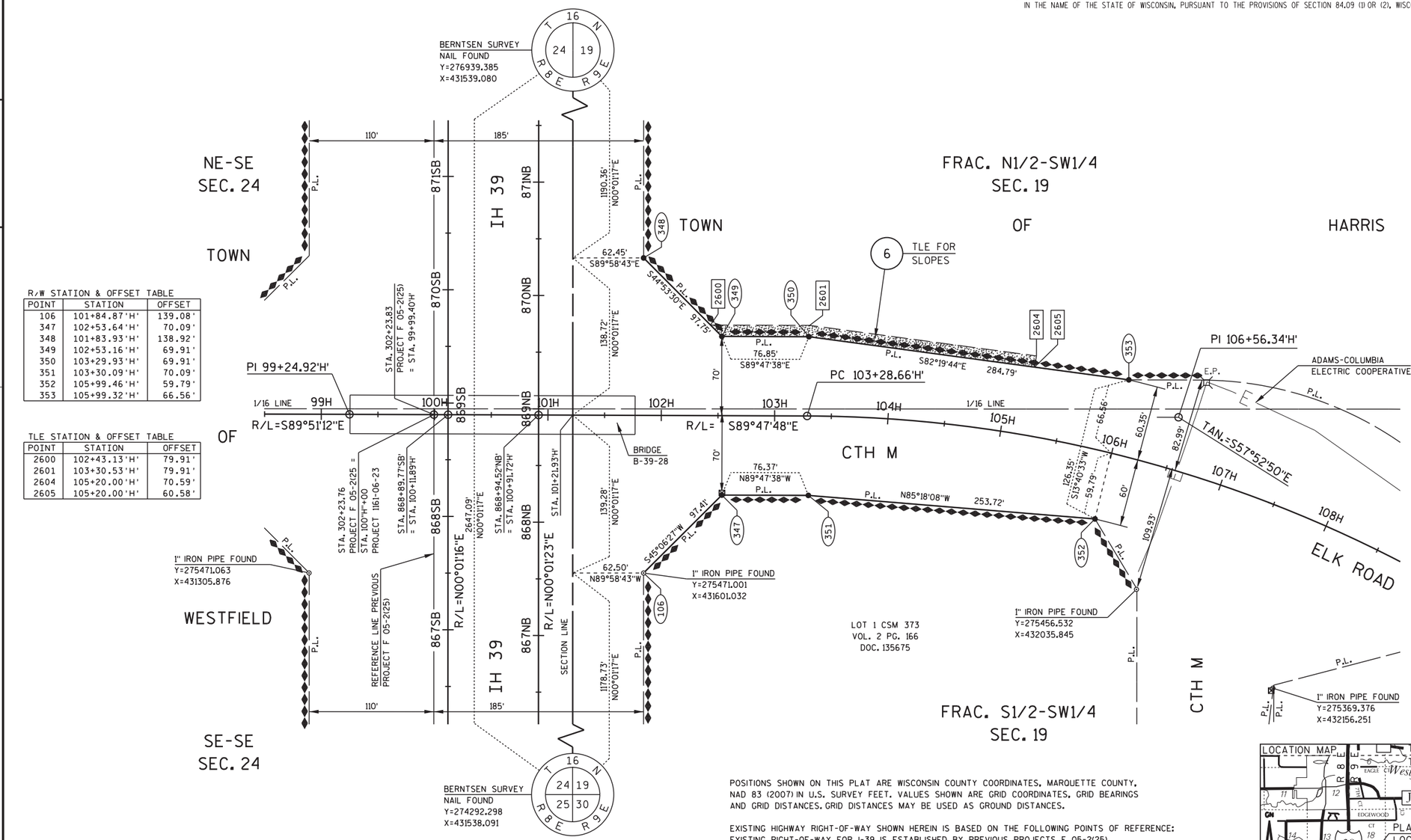
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE 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.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN MARQUETTE COUNTY, WISCONSIN AT 1:30 M ON 04-21-14 AS DOCUMENT # 298284 AND FILED IN 2 Plats, Slide 83

Robert L Krueger
SIGNATURE OF REGISTER OF DEEDS

298284

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1166-07-26-4.03
AMENDMENT NO:



R/W STATION & OFFSET TABLE

POINT	STATION	OFFSET
106	101+84.87'H'	139.08'
347	102+53.64'H'	70.09'
348	101+83.93'H'	138.92'
349	102+53.16'H'	69.91'
350	103+29.93'H'	69.91'
351	103+30.09'H'	70.09'
352	105+99.46'H'	59.79'
353	105+99.32'H'	66.56'

TLE STATION & OFFSET TABLE

POINT	STATION	OFFSET
2600	102+43.13'H'	79.91'
2601	103+30.53'H'	79.91'
2604	105+20.00'H'	70.59'
2605	105+20.00'H'	60.58'

CTH 'M' ALIGNMENT

P.I. = 91+52.44'H'
Y 275612.983
X 430569.104

P.I. = 99+24.92'H'
Y 275611.005
X 431341.578
Δ. = 00°03'24" RT.

P.I. = 106+56.34'H'
Y 275608.410
X 432072.997
Δ. = 31°54'59" RT.
D. = 05°00'00"
T. = 327.68'
L. = 638.33'
R. = 1145.92'

I-39 SOUTHBOUND ALIGNMENT

P.I. = 823+83.18'SB'
Y 271104.114
X 431426.888
Δ. = 00°12'01" LT.

P.I. = 952+60.64'SB'
Y 283981.568
X 431431.642
Δ. = 02°09'16" LT.
D. = 00°14'59"
T. = 431.20'
L. = 862.30'
R. = 22932.00'

I-39 NORTHBOUND ALIGNMENT

P.I. = 825+89.21'NB'
Y 271305.104
X 431506.642
Δ. = 00°11'52" LT.

P.I. = 920+40.44'NB'
Y 280756.334
X 431510.449
Δ. = 00°00'38" LT.

GN

SCALE. FEET
0 25 50 100

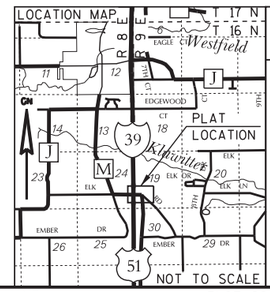
POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MARQUETTE COUNTY, NAD 83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES. GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING RIGHT-OF-WAY FOR I-39 IS ESTABLISHED BY PREVIOUS PROJECTS F 05-2(25).
EXISTING RIGHT-OF-WAY FOR CTH M IS ESTABLISHED BY PREVIOUS PROJECTS 1161-06-23.

EXISTING ACCESS CONTROL FOR I-39 ESTABLISHED FROM PREVIOUS PROJECT F 05-2(25).
EXISTING ACCESS CONTROL FOR CTH M ESTABLISHED FROM PREVIOUS PROJECT 1161-06-23.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION OFFICE IN WISCONSIN RAPIDS AND THE MARQUETTE COUNTY HIGHWAY DEPARTMENT.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN MARQUETTE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 298169 AND FILED IN 2 PLATS, SLIDE 83.



AECOM

I, LANCE J. HABECK, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1166-07-26 - 4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Lance J. Habeck 4/02/2014
LANCE J. HABECK DATE
REGISTRATION NUMBER: S-1444

WISCONSIN LANCE J. HABECK S-1444 PLOVER, WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION.

Brent L Stella Brent L Stella 4-15-14
PRINTED NAME SIGNATURE DATE

FILE NAME : $$....designfile....$$
APPRAISAL PLAT DATE : 04-02-2014
PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$

1166-07-26 4.03

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED			TLE ACRES	PLE ACRES
			NEW	EXISTING	TOTAL		
3	LEROY INVESTMENTS, LLC	FEE	4.082	-----	4.082	-----	-----
4	JOHN R. MARLEWSKI D/B/A JAM ENTERPRISES	FEE & TLE	1.217	-----	1.217	0.016	-----
5	TOWN OF OXFORD	FEE & PLE	0.069	0.358	0.427	-----	0.070

R/W CURVE DATA TABLE

FROM - TO	RADIUS	DELTA	LENGTH	CHORD	CHORD BEARING
359 - 358	1425.00'	11°07'19"	276.61'	276.18'	S15°38'29"W
363 - 362	475.00'	33°46'11"	279.96'	275.93'	S38°05'14"W
2009 - 2011	380.00'	26°18'14"	174.45'	172.93'	N36°54'47"E
2012 - 2015	2395.00'	07°27'11"	311.54'	311.32'	N20°02'04"E

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
120	AMERICAN TRANSMISSION COMPANY, LLC	RELEASE OF RIGHTS
121	WE ENERGIES (GAS)	RELEASE OF RIGHTS
122	ADAMS-COLUMBIA ELECTRIC COOPERATIVE	RELEASE OF RIGHTS
123	MARQUETTE-ADAMS TELEPHONE COOPERATIVE, INC.	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 1166-07-26 - 4.02

THAT PART OF LOTS 1 AND 2 OF CSM 3457, ALSO THAT PART OF LOT 1 OF CSM 2222, ALSO THAT PART OF THE SE 1/4 OF THE NE 1/4, THE NE 1/4 OF THE SE 1/4 AND THE SE 1/4 OF THE SE 1/4 OF SECTION 12, ALL IN T 15 N, R 8 E, TOWN OF OXFORD, MARQUETTE COUNTY, WISCONSIN.

RELOCATION ORDER IH 39/90 PACKWAUKEE - COLOMA (B-39-9, 10, 26, 27, 28, 29) MARQUETTE 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 SUBSECTIONS 84.02 (3), 84.09, AND 84.30, 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.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN MARQUETTE COUNTY, WISCONSIN AT 11:30 A.M. ON 04-21-14 AS DOCUMENT # 298285 AND FILED IN 2 Plats, Slide 84.

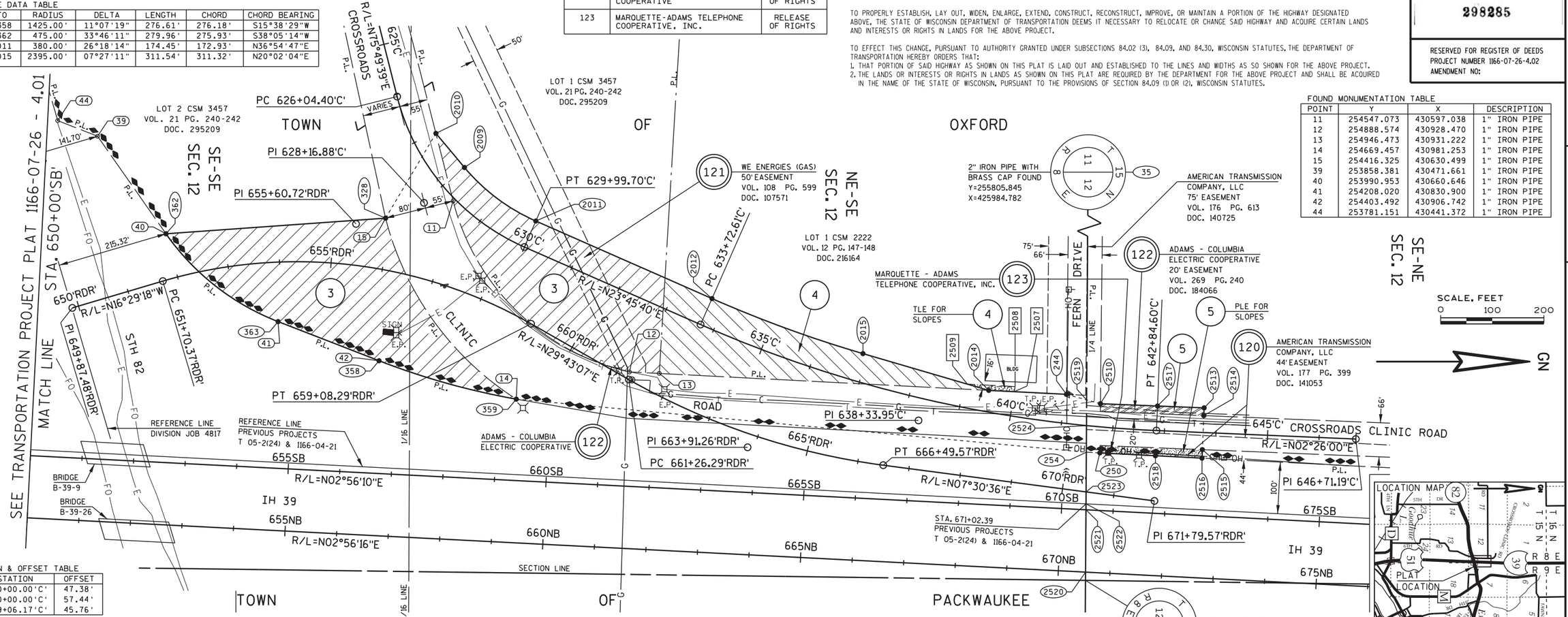
Brent L Kluwgen
SIGNATURE OF REGISTER OF DEEDS

298285

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1166-07-26-4.02
AMENDMENT NO:

FOUND MONUMENTATION TABLE

POINT	Y	X	DESCRIPTION
11	254547.073	430597.038	1" IRON PIPE
12	254888.574	430928.470	1" IRON PIPE
13	254946.473	430931.222	1" IRON PIPE
14	254669.457	430981.253	1" IRON PIPE
15	254416.325	430630.499	1" IRON PIPE
39	253858.381	430471.661	1" IRON PIPE
40	253990.953	430660.646	1" IRON PIPE
41	254208.020	430830.900	1" IRON PIPE
42	254403.492	430906.742	1" IRON PIPE
44	253781.151	430441.372	1" IRON PIPE



TLE STATION & OFFSET TABLE

POINT	STATION	OFFSET
2507	640+00.00'C'	47.38'
2508	640+00.00'C'	57.44'
2509	639+06.17'C'	45.76'

R/W STATION & OFFSET TABLE

POINT	STATION	OFFSET
244	641+03.11'C'	56.12'
250	641+79.06'C'	50.26'
254	641+53.31'C'	51.30'
328	655+89.45'RDR'	99.02'
358	656+31.84'RDR'	174.71'
359	659+55.90'RDR'	141.07'
362	651+99.47'RDR'	86.69'
363	653+91.97'RDR'	115.33'
2009	628+00.00'C'	55.00'
2010	627+03.04'C'	45.36'
2011	629+99.70'C'	55.00'
2012	633+72.61'C'	55.00'
2014	639+50.00'C'	41.59'
2015	636+91.31'C'	55.00'
2510	641+71.84'C'	44.86'
2513	643+75.00'C'	47.80'
2514	643+75.00'C'	32.80'
2515	643+75.00'C'	33.20'
2516	643+75.00'C'	49.69'
2517	642+84.60'C'	47.62'
2518	642+84.60'C'	48.89'
2519	641+44.04'C'	49.65
2520	670+52.81'NB'	0.00
2521	670+47.38'SB'	0.00
2523	670+45.97'RDR'	0.00
2524	641+48.70'C'	0.00

P.I. = 620+65.87'C'
Y 254280.786
X 429769.699
Δ. = 75°06'34"
D. = 12°15'00"
T. = 359.61'
L. = 613.14'
R. = 467.72'

P.I. = 628+16.88'C'
Y 254490.637
X 430600.699
Δ. = 52°03'59"
D. = 13°10'17"
T. = 212.48'
L. = 395.30'
R. = 435.00'

P.I. = 638+33.95'C'
Y 255448.630
X 431022.446
Δ. = 21°19'40"
D. = 02°20'19"
T. = 461.33'
L. = 911.99'
R. = 2450.00'

P.I. = 646+71.19'C'
Y 256295.784
X 431058.445

P.I. = 594+13.05'NB'
Y 248142.490
X 430924.852

P.I. = 698+02.87'NB'
Y 258518.651
X 431457.343
Δ. = 02°43'01"
D. = 00°15'00"
T. = 543.48'
L. = 1086.75'
R. = 22918.31'

P.I. = 575+12.41'SB'
Y 246249.626
X 430707.196
Δ. = 05°35'39"
D. = 00°30'02"
T. = 559.27'
L. = 1117.66'
R. = 11447.16'

P.I. = 706+78.66'SB'
Y 259399.481
X 431381.634
Δ. = 02°42'52"
D. = 00°15'00"
T. = 543.29'
L. = 1086.38'
R. = 22930.31'

P.I. = 649+87.48'RDR'
Y 253809.377
X 430804.264

P.I. = 671+79.57'RDR'
Y 255905.640
X 431178.408

P.I. = 655+60.72'RDR'
Y 254359.044
X 430641.568
Δ. = 46°12'25"
D. = 06°15'43"
T. = 390.35'
L. = 737.91'
R. = 915.00'

P.I. = 663+91.26'RDR'
Y 255117.492
X 431074.507
Δ. = 22°12'31"
D. = 04°14'39"
T. = 264.97'
L. = 523.28'
R. = 1350.00'

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
254 - 359	S05°19'11"W	1108.99'
359 - 358	CURVE	
358 - 363	S21°12'09"W	209.70'
363 - 362	CURVE	
362 - 328	N04°04'33"W	426.48'
328 - 2010	N59°19'12"W	191.04'
2010 - 2009	N50°03'53"E	86.14'
2009 - 2011	CURVE	
2011 - 2012	N23°45'40"E	372.91'
2012 - 2015	CURVE	
2015 - 2014	N16°18'29"E	253.83'
2014 - 244	N02°56'22"E	150.74'
244 - 2519	N15°22'02"E	40.56'
2519 - 2510	N15°22'02"E	27.68'
2510 - 2517	N02°19'16"E	110.66'
2517 - 2513	N02°19'16"E	90.40'

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
2513 - 2514	S87°34'00"E	15.00'
2514 - 2515	S87°34'00"E	66.00'
2515 - 2516	S87°34'00"E	16.49'
2516 - 2518	S02°56'22"W	90.40'
2518 - 250	S02°56'22"W	107.67'
250 - 254	S02°56'22"W	26.30'
33 - 35	N89°38'19"W	5347.79'
33 - 254	N89°38'19"W	248.47'
254 - 2519	N89°38'19"W	101.37'
2519 - 35	N89°38'19"W	4997.95'
33 - 2520	N89°38'19"W	16.07'
2520 - 2521	N89°38'19"W	120.77'
2521 - 2522	N89°38'19"W	11.53'
2522 - 2523	N89°38'19"W	23.16'
2523 - 2524	N89°38'19"W	128.45'
2524 - 35	N89°38'19"W	5047.82'

A **PERMANENT LIMITED EASEMENT** (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE THE 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 IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN MARQUETTE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 298169 AND FILED IN 2 PLATS, SLIDE 83.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MARQUETTE COUNTY, NAD 83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING RIGHT-OF-WAY FOR I-39 IS ESTABLISHED BY PREVIOUS PROJECTS T 05-2(24) AND 1166-04-21
EXISTING RIGHT-OF-WAY FOR STH 82 IS ESTABLISHED BY DIVISION JOB 4817.
EXISTING RIGHT-OF-WAY FOR CROSSROADS CLINIC ROAD IS ESTABLISHED BY CSM 3457 AND CENTERLINE OF EXISTING PAVEMENT.
EXISTING RIGHT-OF-WAY FOR FERN DRIVE IS ESTABLISHED BY CSM 2222.

EXISTING ACCESS CONTROL ESTABLISHED FROM PREVIOUS PROJECT T 05-2(24).

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION OFFICE IN WISCONSIN RAPIDS.

AECOM

I, LANCE J. HABECK, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1166-07-26 - 4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Lance J. Habeck 4/02/2014
LANCE J. HABECK DATE
REGISTRATION NUMBER: S-1444

WISCONSIN LANCE J. HABECK S-1444 PLOVER, WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION.

~~Brent L Stella~~ ~~Brent L Sterra~~ Brent L Stella 4-15-14
PRINTED NAME SIGNATURE DATE

FILE NAME : $$....designfile....$$
APPRAISAL PLAT DATE : 04-02-2014

PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME :

PLOT SCALE : $$.....plotscale.....$$

1166-07-26 4.02

STA 652SB+50.82, 36'LT - STA 652SB+90.22, 36'LT
MGS THRIE BEAM TRANSITION

STA 652SB+90.22, 36'LT - STA 657SB+77.72, 36'LT
MGS GUARDRAIL 3 K

STA 657SB+77.72, 36'LT - STA 658SB+30.85, 38'LT
MGS GUARDRAIL TERMINAL EAT

CONTROL POINT
X=430699.86
Y=253800.71

ADAMS-COLUMBIA ELECTRIC
COOPERATIVE - ELECTRIC

SLOPE INTERCEPT

CONTROL POINT
X=430999.38
Y=252818.75

STH 23/82

D RAMP

655RDR

650RDR

640RCR

645RCR

C RAMP

TLE

R/W

STA 652SB+60.52, 34.65'LT
INLET 2X2-V
W/ PIPE UNDERDRAIN
UNPERFORATED 12-INCH
W/ APRON ENDWALL FOR
CULVERT PIPE STEEL 12-INCH
RIM EL = 867.69
INVERT @ INLET = 863.52
INVERT @ ENDWALL = 844.22
TOP OF STRUCTURE EL = 866.52

BM 3

SLOPE INTERCEPT

MAINTAIN EXISTING
CULVERT PIPE

SLOPE INTERCEPT

REMOVE SIGN
AND FOUNDATION

CONTROL POINT
X=430769.35
Y=254584.81

660RDR

635+00

CONTROL POINT
X=430974.56
Y=254935.85

CROSSROADS CLINIC RD

665RDR

REMOVING
TREE (TYP)

640SB 645SB 650SB 655SB IH 39 SB 660SB 665SB

CLEARING AND GRUBBING (TYP)

CONTROL POINT 24
X=431116.67
Y=254994.33

℄ IH 39 SB

640NB 645NB 650NB 655NB IH 39 NB 660NB 665NB

BM 1

STRUCTURE B-39-9 (TO BE REMOVED)
STRUCTURE B-39-76

BM 2

STA 652SB+75.33, 4'RT
CONCRETE SURFACE
DRAIN TYPE B

CONTROL POINT 25
X=431210.88
Y=254024.82

WE ENERGIES - GAS

CAUTION

40RB

45RB

IH 39 NB OFF RAMP

50RB

65RA

60RA

IH 39 NB ON RAMP

55RA

STRUCTURE B-39-26
POLYMER OVERLAY REQUIRED
SEE STRUCTURE PLANS

CONTROL POINT 33
X=431285.45
Y=253933.37

CONTROL POINT 34
X=431457.16
Y=254021.81

MARQUETTE ADAMS TELEPHONE
COOPERATIVE - COMMUNICATION LINE

STA 652SB+65.63, 6'RT - STA 653SB+05.03, 6'RT
MGS THRIE BEAM TRANSITION

STA 653SB+05.03, 6'RT - STA 655SB+05.03, 6'RT
MGS GUARDRAIL 3

STA 655SB+05.03, 6'RT - STA 655SB+58.16, 8'RT
MGS GUARDRAIL TERMINAL EAT

BEGIN PROJECT 1166-07-76
STA 638SB+00.00
MATCH EXISTING - SAWCUT REQUIRED

END PROJECT 1166-07-76
STA 663SB+00.00
MATCH EXISTING - SAWCUT REQUIRED

SCALE 0' 50' 100' 200'

PI 638SB+00.00 EL 865.17
PC 640SB+50.00 EL 867.72
PI 645SB+50.00 EL 872.81
HIGH PT 646SB+35.96 EL 870.70
PT 650SB+50.00 EL 869.21
PC 653SB+00.00 EL 867.41
PI 656SB+00.00 EL 865.25
PT 659SB+00.00 EL 858.80
PC 660SB+00.00 EL 856.65
PT 663SB+00.00 EL 851.51
PI 661SB+50.00 EL 853.43

1.02%
-0.72%
-2.15%

PROPOSED GRADE
EXISTING GRADE

K=575
1000' VC

K=420
600' VC

K=345
300' VC

EXISTING GRADE LINE
PROPOSED GRADE LINE

890 880 870 860 850 840 830 820

863.29 864.46 865.17 865.17 865.93 866.19 866.53 867.21 866.96 868.20 867.24 869.05 867.47 869.72 867.72 870.22 867.83 870.54 867.68 870.69 867.39 870.66 867.11 870.47 866.79 870.09 866.23 869.55 865.19 868.85 864.40 868.13 863.69 867.41 862.87 866.57 861.83 865.49 860.60 864.18 859.32 862.62 857.96 860.83 856.67 858.80 855.34 856.65 854.09 854.65 852.78 852.94 851.51 851.51 850.10 848.78 847.53

640SB 645SB 650SB 655SB 660SB 665SB

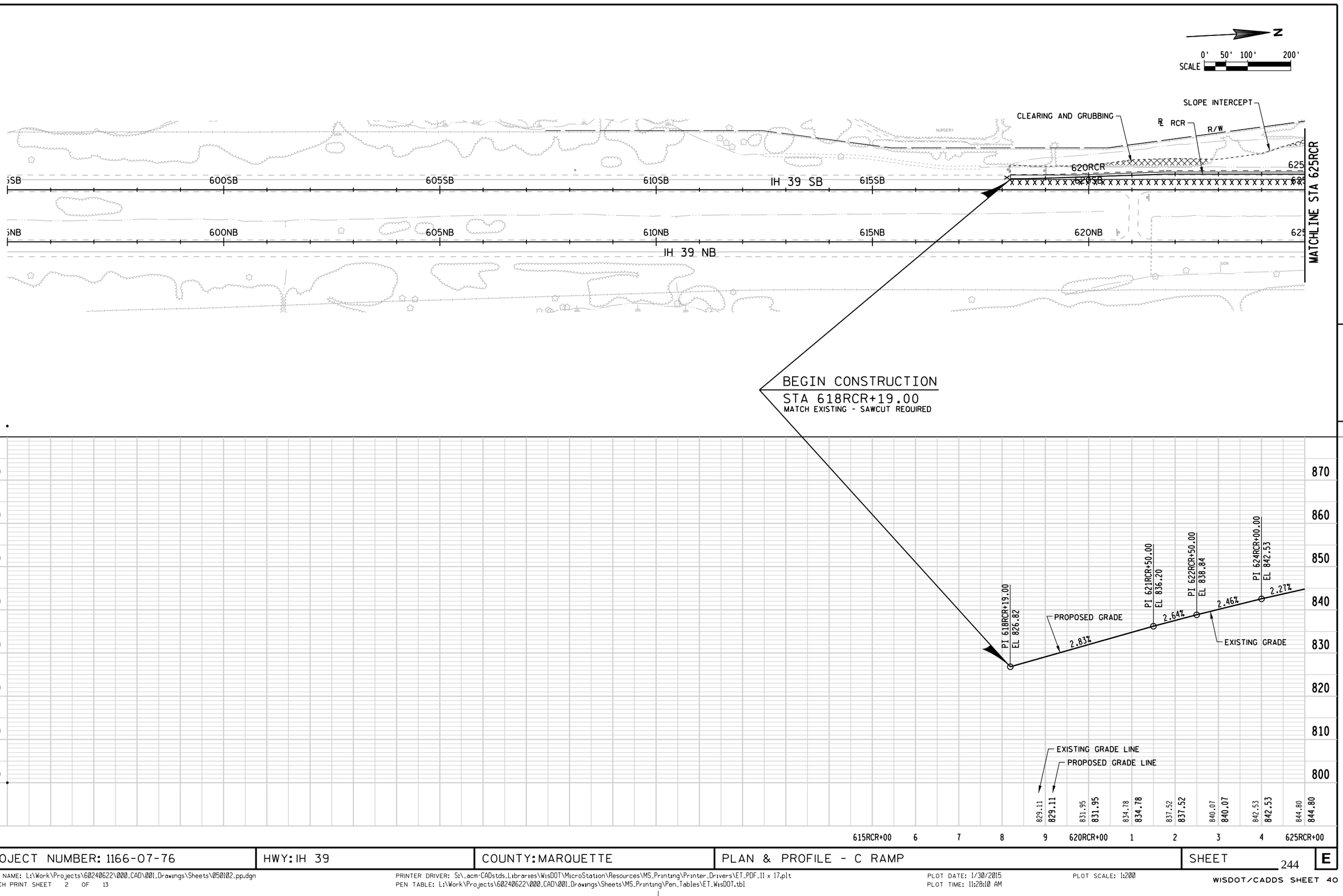
BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
1	651NB+35, RT	ALUMINUM CAP ON THE SOUTHEAST WING WALL OF STRUCTURE B-39-26 OVER HWY 82/23	876.43
2	650NB+79, RT	BLUE PAINTED SQUARE ON THE NORTHEAST CORNER OF WEATHER TOWER BASE ON EAST SIDE OF I39 70FT W/L SOUTH OF STRUCTURE B-39-26	871.13
3	651NB+35, RT	BLUE PAINTED SQUARE ON THE NORTHWEST WING WALL OF STRUCTURE B-39-9	866.18

STA 651SB+69.00
REMOVE STRUCTURE B-39-9
3 SPAN CONTINUOUS VOIDED REINFORCED
CONCRETE SLAB STRUCTURE
122.2' OVERALL LENGTH
46.0' OVERALL WIDTH

STA 651SB+68.69
STRUCTURE B-39-76 REQUIRED
3 SPAN 36W" PRESTRESSED
CONCRETE GIRDER STRUCTURE
154.65' OVERALL LENGTH
42.0' CLEAR ROADWAY WIDTH
19°25'29" SKEW RHF

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PLAN & PROFILE - IH 39 SOUTHBOUND	SHEET 243	E

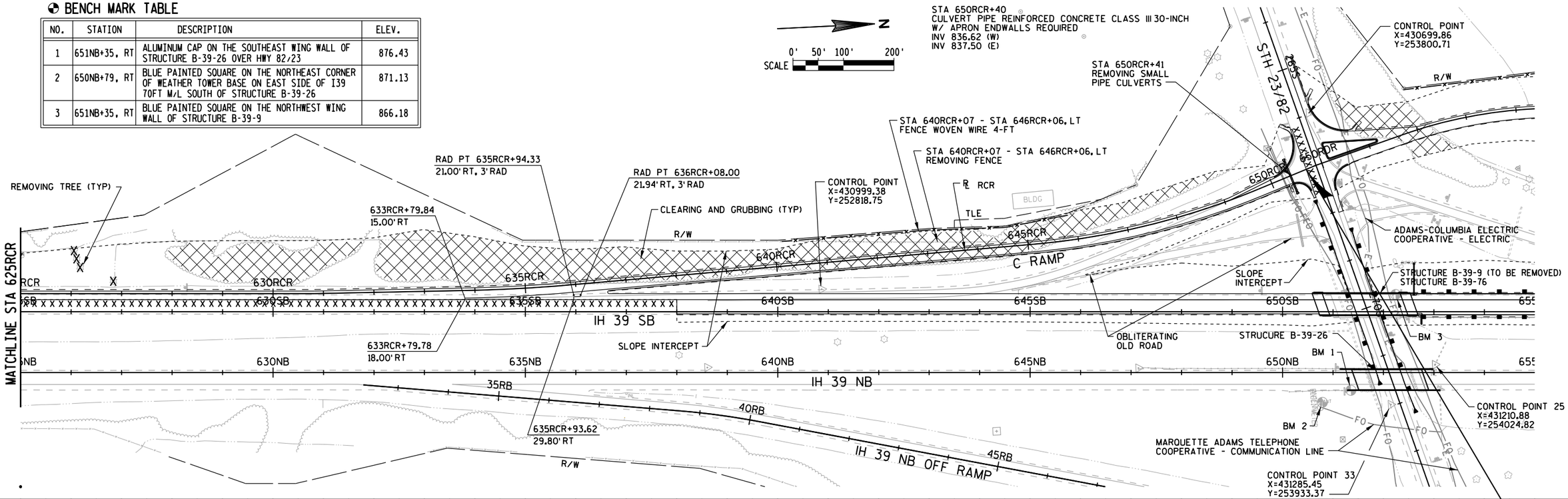


PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PLAN & PROFILE - C RAMP	SHEET 244	E

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WISDOT/CADDS SHEET 40

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
1	651NB+35, RT	ALUMINUM CAP ON THE SOUTHEAST WING WALL OF STRUCTURE B-39-26 OVER HWY 82/23	876.43
2	650NB+79, RT	BLUE PAINTED SQUARE ON THE NORTHEAST CORNER OF WEATHER TOWER BASE ON EAST SIDE OF I39 70FT W/L SOUTH OF STRUCTURE B-39-26	871.13
3	651NB+35, RT	BLUE PAINTED SQUARE ON THE NORTHWEST WING WALL OF STRUCTURE B-39-9	866.18



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PLAN & PROFILE - C RAMP	SHEET 245	E

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PLOT TIME: 11:28:12 AM
PLOT SCALE: 1:200
WISDOT/CADDS SHEET 40

CONTROL POINT
X=430699.86
Y=253800.71

ADAMS-COLUMBIA ELECTRIC COOPERATIVE - ELECTRIC

MARQUETTE ADAMS TELEPHONE COOPERATIVE - COMMUNICATION LINE

ADAMS-COLUMBIA ELECTRIC COOPERATIVE - ELECTRIC

SLOPE INTERCEPT

CLEARING AND GRUBBING (TYP)

PERMITTED WETLAND IMPACT 0.03 ACRES

STA 652RDR+00 - STA 668RDR+83, LT
FENCE WOVEN WIRE 4-FT

STA 663RDR+22, LT
REMOVING SMALL PIPE CULVERTS

REMOVING CONCRETE MASONRY ENDWALL AND 8' STORM SEWER (36")

WE ENERGIES - GAS

REMOVING TREE (TYP)

FERN RD

STA 662SB+73 - STA 671SB+80, LT
REMOVING GUARDRAIL

N

SCALE 0' 50' 100' 200'

D RAMP 655RDR

C RAMP 650RDR

R RDR

630+00

640+00

645+00

646+71

CROSSROADS CLINIC RD

STA 656RDR+70, RT
REMOVING SMALL PIPE CULVERTS

OBLITERATING OLD ROAD

OBLITERATING OLD ROAD

650SB 655SB 660SB IH 39 SB 665SB 670SB 675SB

STRUCTURE B-39-9 (TO BE REMOVED)
STRUCTURE B-39-76

BM 3

STA 653RDR+67, RT
REMOVING SMALL PIPE CULVERTS

SLOPE INTERCEPT

MARQUETTE ADAMS TELEPHONE COOPERATIVE - COMMUNICATION LINE

CONTROL POINT 24
X=431116.67
Y=254994.33

RAD PT 666RDR+66.43
25.00' RT, 6' RAD

RAD PT 666RDR+78.93
24.00' RT, 6' RAD

STA 671SB+80, 35' LT
ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2

650NB 655NB 660NB IH 39 NB 665NB 670NB 675NB

BM 1

BM 2

CONTROL POINT 25
X=431210.88
Y=254024.82

STRUCURE B-39-26

CONTROL POINT 33
X=431285.45
Y=253933.37

STH 23/82

STA 653RDR+18 - STA 668RDR+83, RT
REMOVING FENCE

STA 660RDR+00
CULVERT PIPES REINFORCED CONCRETE CLASS III 30-INCH
W/ APRON ENDWALLS REQUIRED
INV 824.60 (NW)
INV 824.97 (SE)

65RA

60RA

IH 39 NB ON RAMP

666RDR+67.71
40.95' RT

STA 663RDR+02.25, 81.53 LT - STA 663RDR+46.27, 34.27 RT
3 - CULVERT PIPES REINFORCED CONCRETE CLASS III 36-INCH
W/ CONCRETE MASONRY ENDWALLS AND CONCRETE COLLARS
FOR PIPE REQUIRED
INV 823.55 (W)
INV 823.29 (E)

BEGIN CONSTRUCTION
STA 649RDR+99.48
MATCH EXISTING - SAWCUT REQUIRED

END CONSTRUCTION
STA 671RDR+79.57
MATCH EXISTING - SAWCUT REQUIRED

PI 649RDR+99.48 EL 843.96
-1.00%
PC 654RDR+50.00 EL 839.45
LOW PT 655RDR+34.70 EL 839.03
PT 656RDR+50.00 EL 839.82
1.36%
PC 660RDR+00.00 EL 844.58
PROPOSED GRADE
PI 663RDR+00.00 EL 848.66
HIGH PT 663RDR+71.71 EL 847.11
PT 666RDR+00.00 EL 846.16
-0.84%
PC 667RDR+50.00 EL 844.90
SSD=2703'
K=741
400' VC
PI 671RDR+50.00 EL 842.64
PI 671RDR+79.57 EL 842.55
-0.30%

PI 655RDR+50.00 EL 838.45
SSD=714'
K=85
200' VC
EXISTING GRADE
SSD=791'
K=273
600' VC
PI 669RDR+50.00 EL 843.23

EXISTING GRADE LINE
PROPOSED GRADE LINE

STA 660RDR+00
CULVERT PIPES REINFORCED CONCRETE CLASS III 30-INCH
W/ APRON ENDWALLS REQUIRED
INV 824.60 (NW)
INV 824.97 (SE)

STA 663RDR+02.25, 81.53 LT - STA 663RDR+46.27, 34.27 RT
3 - CULVERT PIPES REINFORCED CONCRETE CLASS III 36-INCH
W/ CONCRETE MASONRY ENDWALLS AND CONCRETE COLLARS
FOR PIPE REQUIRED
INV 823.55 (W)
INV 823.29 (E)

870 860 850 840 830 820 810 800

843.77 843.95 837.13 842.95 834.40 841.95 831.98 840.95 827.15 839.95 823.22 839.10 828.09 839.28 824.69 840.50 827.71 841.86 826.18 843.22 826.21 844.58 825.05 845.76 827.82 846.57 827.42 847.02 823.89 847.10 829.62 846.81 833.73 846.16 835.26 845.32 837.59 844.50 839.16 843.80 841.77 843.23 842.08 842.80

645RDR 650RDR 655RDR 660RDR 665RDR 670RDR

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
1	651NB+35, RT	ALUMINUM CAP ON THE SOUTHEAST WING WALL OF STRUCTURE B-39-26 OVER HWY 82/23	876.43
2	650NB+79, RT	BLUE PAINTED SQUARE ON THE NORTHEAST CORNER OF WEATHER TOWER BASE ON EAST SIDE OF I39 70FT W/L SOUTH OF STRUCTURE B-39-26	871.13
3	651NB+35, RT	BLUE PAINTED SQUARE ON THE NORTHWEST WING WALL OF STRUCTURE B-39-9	866.18

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PLAN & PROFILE - D RAMP	SHEET 246	E

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WISDOT/CADDS SHEET 40

STA 628C+00
3 - CULVERT PIPES CLASS III 30-INCH
W/ APRON ENDWALLS REQUIRED
INV 825.35 (NW)
INV 825.18 (SE)

N

SCALE 0' 25' 50' 100'

STA 634C+50
3 - CULVERT PIPES REINFORCED CONCRETE CLASS III 36-INCH
W/ APRON ENDWALLS REQUIRED
INV 824.25 (NW)
INV 824.05 (SE)

CLEARING AND GRUBBING (TYP)

WE ENERGIES - GAS

SLOPE INTERCEPT

℄ CROSSROADS CLINIC RD

R/W

STA 626C+75, RT
CONSTRUCT 50' WIDE ASPHALT PE
SAWCUT REQUIRED

STA 627C+88, RT
REMOVING SMALL
PIPE CULVERTS

BEGIN CONSTRUCTION
STA 625C+00.00
MATCH EXISTING - SAWCUT REQUIRED

CROSSROADS CLINIC RD

PROPOSED R/W

OBLITERATING
OLD ROAD

CONTROL POINT
X=430769.35
Y=254584.81

ADAMS-COLUMBIA ELECTRIC
COOPERATIVE - ELECTRIC

MARQUETTE ADAMS TELEPHONE
COOPERATIVE - COMMUNICATION LINE

MATCHLINE STA 635C

WE ENERGIES - GAS

PI 625C+00.00
EL 832.08

PROPOSED GRADE

-0.38%

PC 631C+25.00
EL 829.68

LOW PT 632C+28.64
EL 829.48

PI 633C+25.00
EL 829.65

0.36%

EXISTING GRADE

PI 632C+25.00
EL 829.30

STA 628C+00
3 - CULVERT PIPES CLASS III 30-INCH
W/ APRON ENDWALLS REQUIRED
INV 825.35 (NW)
INV 825.18 (SE)

STA 634C+50
3 - CULVERT PIPES REINFORCED CONCRETE CLASS III 36-INCH
W/ APRON ENDWALLS REQUIRED
INV 824.25 (NW)
INV 824.05 (SE)

EXISTING GRADE LINE
PROPOSED GRADE LINE

SSD=1048'
K=270
200' VC

833.1	832.4	832.1	832.08	831.5	831.69	831.0	831.31	826.1	830.93	827.4	830.54	826.9	830.16	826.7	829.78	826.9	829.50	825.8	829.57	825.6	829.92	827.1	830.28
623C	624C	625C		626C		627C		628C		629C		630C		631C		632C		633C		634C		635C	

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PLAN & PROFILE - CROSSROADS CLINIC ROAD	SHEET 247	E

STA 641C+32, LT
CONSTRUCT TYPE C
MODIFIED INTERSECTION
SAWCUT REQ'D

N

SCALE 0' 25' 50' 100'

CONTROL POINT
X=431044.11
Y=255722.61

FERN RD

ADAMS-COLUMBIA ELECTRIC
COOPERATIVE - ELECTRIC

STA 641C+65
REMOVING SMALL
PIPE CULVERTS

℄ CROSSROADS CLINIC RD

CLEARING AND GRUBBING (TYP)

SLOPE INTERCEPT

MARQUETTE ADAMS TELEPHONE
COOPERATIVE - COMMUNICATION LINE

WE ENERGIES - GAS

CAUTION

BLDG

XXXX

R/W

TLE

OH

G E T

636C 637C 638C 639C 640C 641C 642C 643C 644C 645C 646C

MATCHLINE STA 635C

CROSSROADS CLINIC RD

REMOVING FENCE

REMOVING TREE (TYP)

SLOPE INTERCEPT

664RDR 665RDR 666RDR 667RDR 668RDR 669RDR 670RDR 671RDR

D RAMP

666SB 667SB 668SB 669SB 670SB 671SB 672SB 673SB 674SB IH 39 SB 675SB 676SB 677SB 678SB

672NB 673NB 674NB 675NB 676NB 677NB 678NB IH 39 NB

STA 641C+65
48" CULVERT PIPE CLASS III 24-INCH
W/ APRON ENDWALLS REQUIRED
INV 829.08 (W)
INV 828.88 (E)

END CONSTRUCTION
STA 643C+55.00
MATCH EXISTING - SAWCUT REQUIRED

PI 643C+55.00
EL 833.33

PROPOSED GRADE

0.36%

EXISTING GRADE

EXISTING GRADE LINE

PROPOSED GRADE LINE

845 840 835 830 825 820 815 810

827.1 830.28 828.2 830.63 828.3 830.99 829.2 831.35 830.1 831.70 831.1 832.06 832.3 832.42 832.6 832.77 833.0 833.13 833.4 834.3 835.5

635C 636C 637C 638C 639C 640C 641C 642C 643C 644C 645C 646C 647C

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PLAN & PROFILE - CROSSROADS CLINIC ROAD	SHEET 248	E

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BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
4	99H+16, RT	ALUMINUM CAP ON THE SOUTHWEST CORNER OF WING WALL STRUCTURE B-39-28	896.47

N

SCALE 0' 25' 50' 100'

STA 92H+72.00, 19'LT - STA 93H+25.12, 17'LT
MGS GUARDRAIL TERMINAL EAT

STA 93H+25.12, 17'LT - STA 98H+75.12, 17'LT
MGS GUARDRAIL 3

STA 98H+75.12, 17'LT - STA 99H+14.52, 17'LT
MGS THRIE BEAM TRANSITION

STA 98H+93.88'LT - STA 99H+18.19'LT
REMOVING FENCE
INSTALL FENCE WIRE WOVEN 4-FT

STA 101H+99.20, 15.65'LT
INLET 2X2-V
W/ PIPE UNDERDRAIN
UNPERFORATED 12-INCH
W/ APRON ENDWALL FOR
CULVERT PIPE STEEL 12-INCH
RIM EL = 890.03
INVERT @ INLET = 885.86
INVERT @ ENDWALL = 871.67
TOP OF STRUCTURE EL = 888.86

STA 101H+82.19'LT - STA 101H+82.72'LT
REMOVING FENCE
INSTALL FENCE WIRE WOVEN 4-FT

STA 101H+89.50, 17'LT - STA 102H+28.90, 17'LT
MGS THRIE BEAM TRANSITION

STA 102H+28.90, 17'LT - STA 105H+01.34, 17'LT
MGS GUARDRAIL 3

STA 105H+01.34, 17'LT - STA 105H+53.69, 19'LT
MGS GUARDRAIL TERMINAL EAT

SLOPE INTERCEPT
R/W
℄ CTH M
REMOVING GUARDRAIL
REMOVING STORM SEWER
SLOPE INTERCEPT
MARQUETTE ADAMS TELEPHONE COOP - FIBER OPTIC
ADAMS-COLUMBIA ELECTRIC COOPERATIVE - ELECTRIC
TLE
CONTROL POINT 7
X=431687.56
Y=275610.15
IH 39 SB 870SB
870NB
869SB
869NB
IH 39 NB
868SB
868NB
91H+52 92H 93H 94H 95H 96H 97H 98H 99H 100H 101H 102H 103H 104H 105H 106H 107H
ASPHALT
CTH M
CONTROL POINT 11
X=431320.67
Y=275596.62
BM 4
STRUCTURE B-39-28
REMOVING INLETS
REMOVING GUARDRAIL
REMOVING STORM SEWER
STA 105H+99.77
12.00 RT
R/W
STA 98H+93, 79'RT - STA 99H+18, 20'RT
REMOVING FENCE
INSTALL FENCE WIRE WOVEN 4-FT
CONTROL POINT 10
X=431339.25
Y=275567.65
STA 101H+82, 68'RT - STA 101H+84, 19'RT
REMOVING FENCE
INSTALL FENCE WIRE WOVEN 4-FT

BEGIN CONSTRUCTION
STA 92H+72.00
MATCH EXISTING - SAWCUT REQUIRED

STA 92H+71.96, 19'RT - STA 93H+25.08, 17'RT
MGS GUARDRAIL TERMINAL EAT

STA 93H+25.08, 17'RT - STA 98H+75.08, 17'RT
MGS GUARDRAIL 3

STA 98H+75.08, 17'RT - STA 99H+14.48, 17'RT
MGS THRIE BEAM TRANSITION

STA 101H+99.20, 15.65'RT
INLET 2X2-V
W/ PIPE UNDERDRAIN
UNPERFORATED 12-INCH
W/ APRON ENDWALL FOR
CULVERT PIPE STEEL 12-INCH
RIM EL = 889.88
INVERT @ INLET = 885.71
INVERT @ ENDWALL = 869.49
TOP OF STRUCTURE EL = 888.71

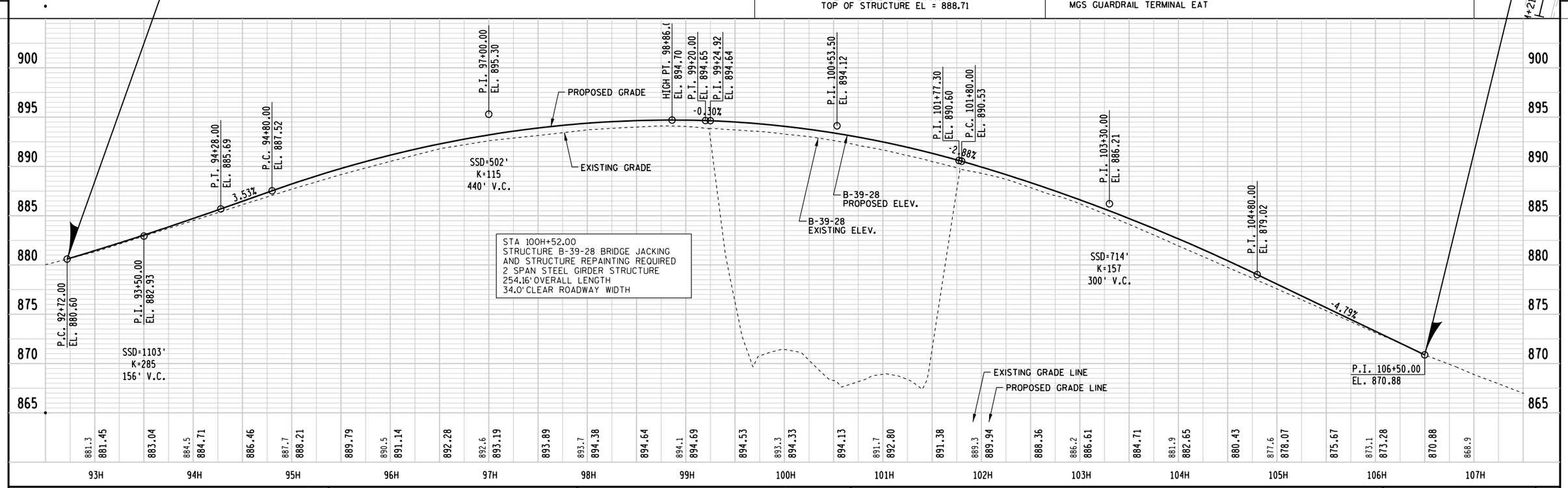
STA 101H+89.50, 17'RT - STA 102H+28.90, 17'RT
MGS THRIE BEAM TRANSITION

STA 102H+28.90, 17'RT - STA 103H+79.66, 17'RT
MGS GUARDRAIL 3

STA 103H+79.66, 17'RT - STA 104H+33.59, 19'RT
MGS GUARDRAIL TERMINAL EAT

END CONSTRUCTION
STA 106H+50.00
MATCH EXISTING - SAWCUT REQUIRED

5 5



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PLAN & PROFILE - CTH M	SHEET 249	E

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BATCH PRINT SHEET 7 OF 13
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PEN TABLE: L:\Work\Projects\60240622\000.CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 11:28:21 AM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 40

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
5	99J+17, RT	ALUMINUM CAP ON THE SOUTHWEST WING WALL OF STRUCTURE B-39-29	900.66

N

SCALE 0' 25' 50' 100'

STA 93J+25, LT
CONSTRUCT 24' WIDE ASPHALT PE
SAWCUT REQ'D

STA 94J+71.53, 18'LT - STA 95J+24.65, 16'LT
MGS GUARDRAIL TERMINAL EAT

STA 95J+24.65, 16'LT - STA 98J+74.60, 13'LT
MGS GUARDRAIL 3

STA 98J+74.60, 13'LT - STA 99J+14.00, 13'LT
MGS THRIE BEAM TRANSITION

STA 101J+92.70, 11.66'LT
INLET 2X2-V
W/ PIPE UNDERDRAIN
UNPERFORATED 12-INCH
W/ APRON ENDWALL FOR
CULVERT PIPE STEEL 12-INCH
RIM EL = 894.19
INVERT @ INLET = 890.02
INVERT @ ENDWALL = 873.67
TOP OF STRUCTURE EL = 893.02

STA 101J+83.04, 13'LT - STA 102J+22.44, 13'LT
MGS THRIE BEAM TRANSITION

STA 102J+22.44, 13'LT - STA 103J+97.38, 16'LT
MGS GUARDRAIL 3

STA 103J+97.38, 16'LT - STA 104J+50.50, 18'LT
MGS GUARDRAIL TERMINAL EAT

STA 101J+77, 15'LT - STA 101J+83, 70'LT
REMOVING FENCE
INSTALL FENCE WIRE WOVEN 4-FT

PIONEER POWER AND LIGHT COMPANY - ELECTRIC

MARQUETTE ADAMS TELEPHONE COOP - FIBER OPTIC

REMOVING TREE (TYP)

SEPTIC COVER
SEPTIC COVER

R/W

98J+64.51
13.00'LT

SLOPE INTERCEPT

97J+77.06
16.00'LT

℄ EDGEWOOD CT

XXXX

CONTROL POINT
X=430568.02
Y=283548.83

91J+50 92J 93J 94J 95J 96J 97J 98J 99J 100J 101J 102J 103J 104J 10

EDGEWOOD CT

REMOVING GUARDRAIL

97J+77.06
16.00'RT

98J+64.51
13.00'RT

BM 5

CONTROL POINT
X=431324.08
Y=283519.44

IH 39 SB
949SB
948SB
947SB

IH 39 NB
949NB
948NB
947NB

CONTROL POINT
X=431601.58
Y=283558.37

STRUCTURE B-39-29

REMOVING INLETS

REMOVING STORM SEWER

SLOPE INTERCEPT

R/W

102J+32.78
13.00'LT

103J+20.22
16.00'LT

102J+32.78
13.00'RT

103J+20.22
16.00'RT

REMOVE GUARDRAIL

MATCHLINE STA 105J

R/W

STA 94J+71.55, 18'RT - STA 95J+24.65, 16'RT
MGS GUARDRAIL TERMINAL EAT

STA 95J+24.65, 16'RT - STA 98J+74.60, 13'RT
MGS GUARDRAIL 3

STA 98J+74.06, 13'RT - STA 99J+14.00, 13'RT
MGS THRIE BEAM TRANSITION

STA 101J+92.70, 11.66'RT
INLET 2X2-V
W/ PIPE UNDERDRAIN
UNPERFORATED 12-INCH
W/ APRON ENDWALL FOR
CULVERT PIPE STEEL 12-INCH
RIM EL = 894.19
INVERT @ INLET = 890.02
INVERT @ ENDWALL = 869.94
TOP OF STRUCTURE EL = 893.02

REMOVING STORM SEWER

STA 101J+82.96, 13'RT - STA 102J+22.36, 13'RT
MGS THRIE BEAM TRANSITION

STA 102J+22.36, 13'RT - STA 103J+97.31, 13'RT
MGS GUARDRAIL 3

STA 103J+97.31, 13'RT - STA 104J+50.45, 18'RT
MGS GUARDRAIL TERMINAL EAT

STA 101J+78, 15'RT - STA 101J+81, 84'RT
REMOVING FENCE
INSTALL FENCE WIRE WOVEN 4-FT

BEGIN CONSTRUCTION
STA 91J+75.00
MATCH EXISTING - SAWCUT REQUIRED

5

5

905 900 895 890 885 880 875 870

PI 91J+75.00
EL 878.51
PC 92J+00.00
EL 878.99

1.91%

SSD=617'
K=96
250' VC

PI 93J+25.00
EL 881.38

PT 94J+50.00
EL 887.02

4.51%

PC 95J+25.00
EL 890.40

PI 97J+25.00
EL 899.42

PROPOSED GRADE

EXISTING GRADE

HIGH PT 99J+05.19
EL 898.98

PT 99J+25.00
EL 898.95

PI 99J+26.42
EL 898.95

-0.24%

PI 100J+48.60
EL 898.60

K=94
244' VC

B-39-29
PROPOSED ELEV.

B-39-29
EXISTING ELEV.

PI 101J+70.78
EL 895.07

PC 101J+75.00
EL 894.95

-3.00%

PI 102J+75.00
EL 891.95

SSD=915'
K=151
200' VC

PRC 103J+75.00
EL 887.63

SSD=427'
K=84
400' VC

STA 100J+48.50
STRUCTURE B-39-29 BRIDGE JACKING
AND STRUCTURE REPAINTING REQUIRED
2 SPAN STEEL GIRDER STRUCTURE
244.16' OVERALL LENGTH
26.0' CLEAR ROADWAY WIDTH

EXISTING GRADE LINE
PROPOSED GRADE LINE

878.2 878.8 878.99 880.9 881.42 884.5 884.89 889.1 889.27 893.1 893.45 895.8 896.48 897.6 898.32 898.1 898.98 897.5 898.45 895.9 896.85 893.4 894.18 889.6 890.69 885.3 886.57 881.5 882.74

91J 92J 93J 94J 95J 96J 97J 98J 99J 100J 101J 102J 103J 104J 105J

PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PLAN & PROFILE - EDGEWOOD COURT	SHEET 250	E

STA 105J+93, LT
CONSTRUCT 10' WIDE ASPHALT PE
SAWCUT REQ'D

STA 108J+37, LT
CONSTRUCT 16' WIDE GRAVEL PE

PIONEER POWER AND LIGHT
COMPANY - ELECTRIC

N

SCALE 0' 25' 50' 100'

℄ EDGEWOOD CT

R/W

MATCHLINE STA 105J

105J 106J 107J 108J 109J 109J+47

EDGEWOOD CT

R/W

SLOPE INTERCEPT

CONTROL POINT
X=432365.79
Y=283533.55

END CONSTRUCTION
STA 108J+75.00
MATCH EXISTING - SAWCUT REQUIRED

SSD=673'
K=154
500' VC

PROPOSED GRADE

EXISTING GRADE

PI 106J+25.00
EL 876.83

PT 108J+75.00
EL 874.17

EXISTING GRADE LINE

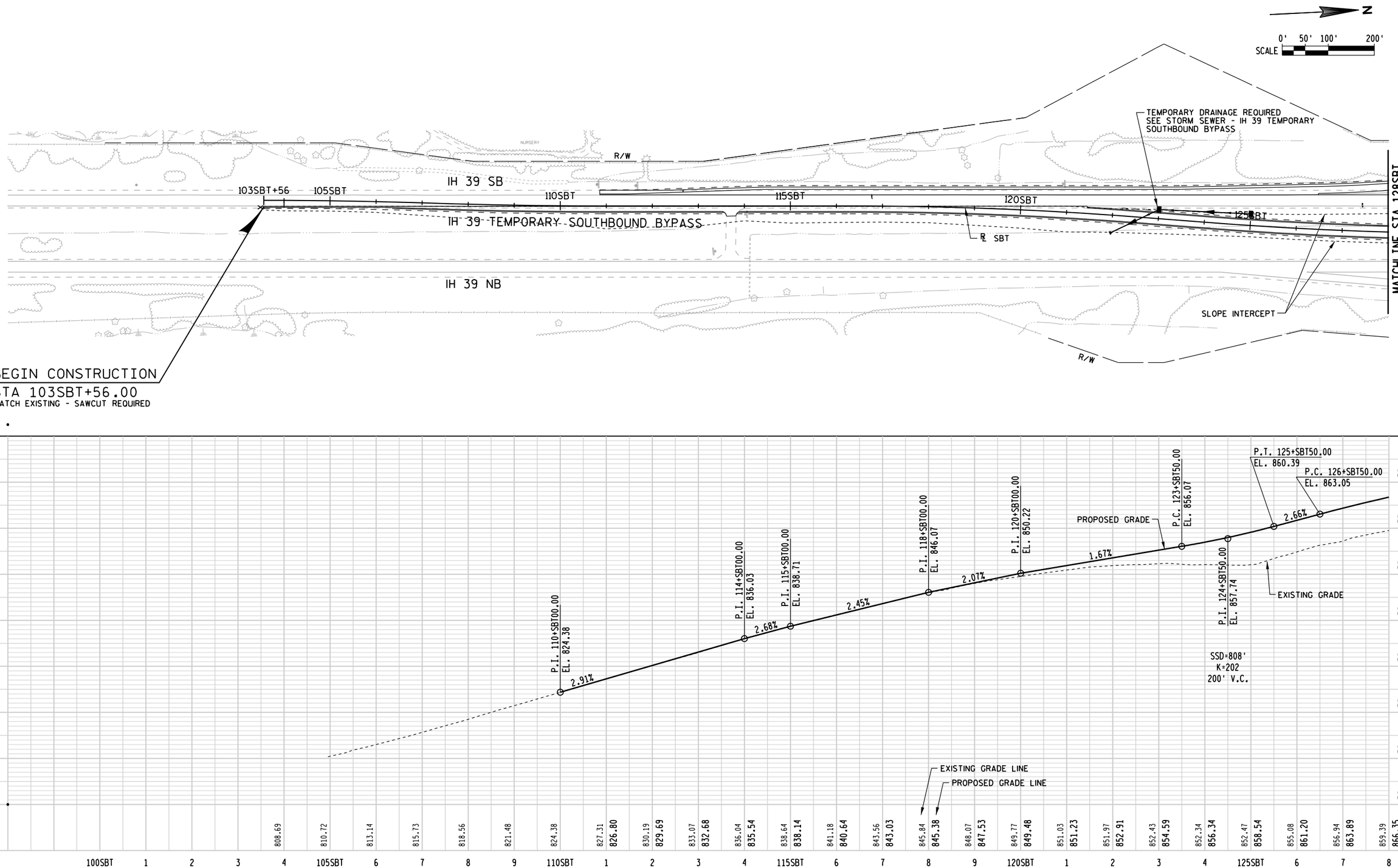
PROPOSED GRADE LINE

895 890 885 880 875 870 865 860

881.5 882.74 878.4 879.56 876.4 877.03 874.9 875.15 873.9

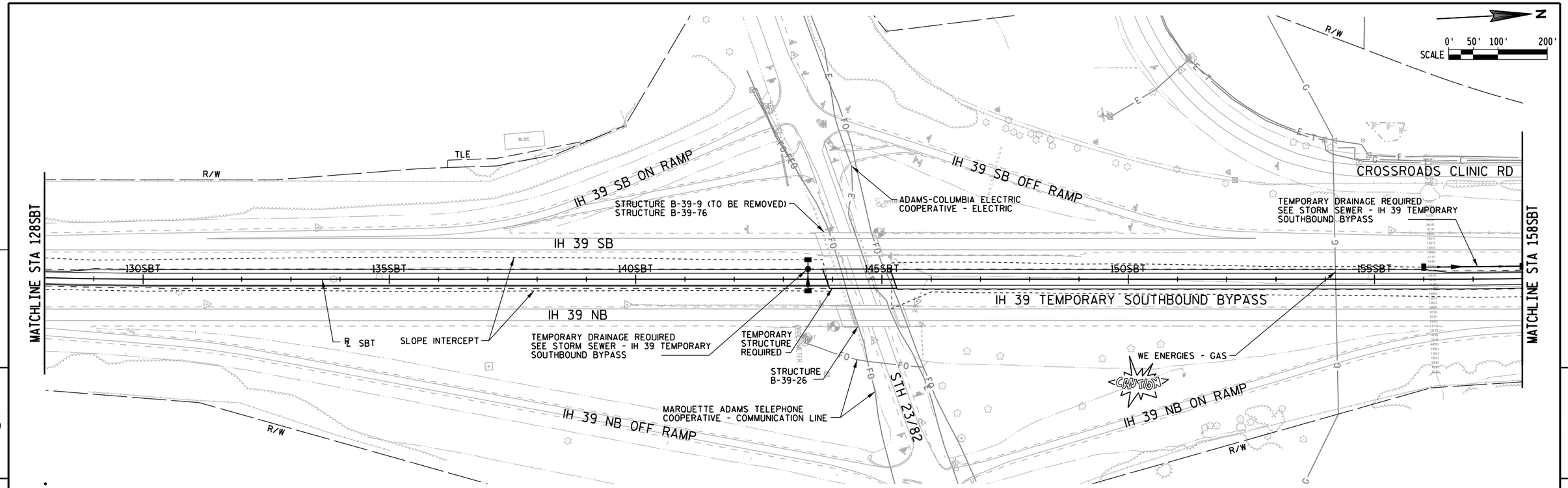
105J 106J 107J 108J 109J 109J

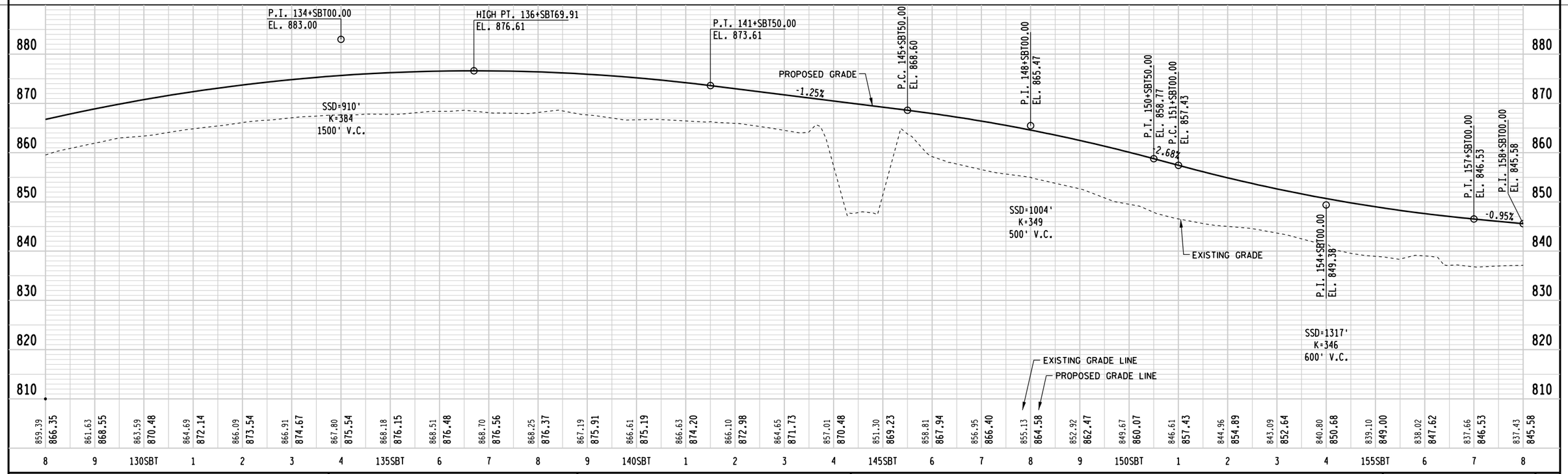
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PLAN & PROFILE - EDGEWOOD COURT	SHEET 251	E



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PLAN AND PROFILE - IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 252	E

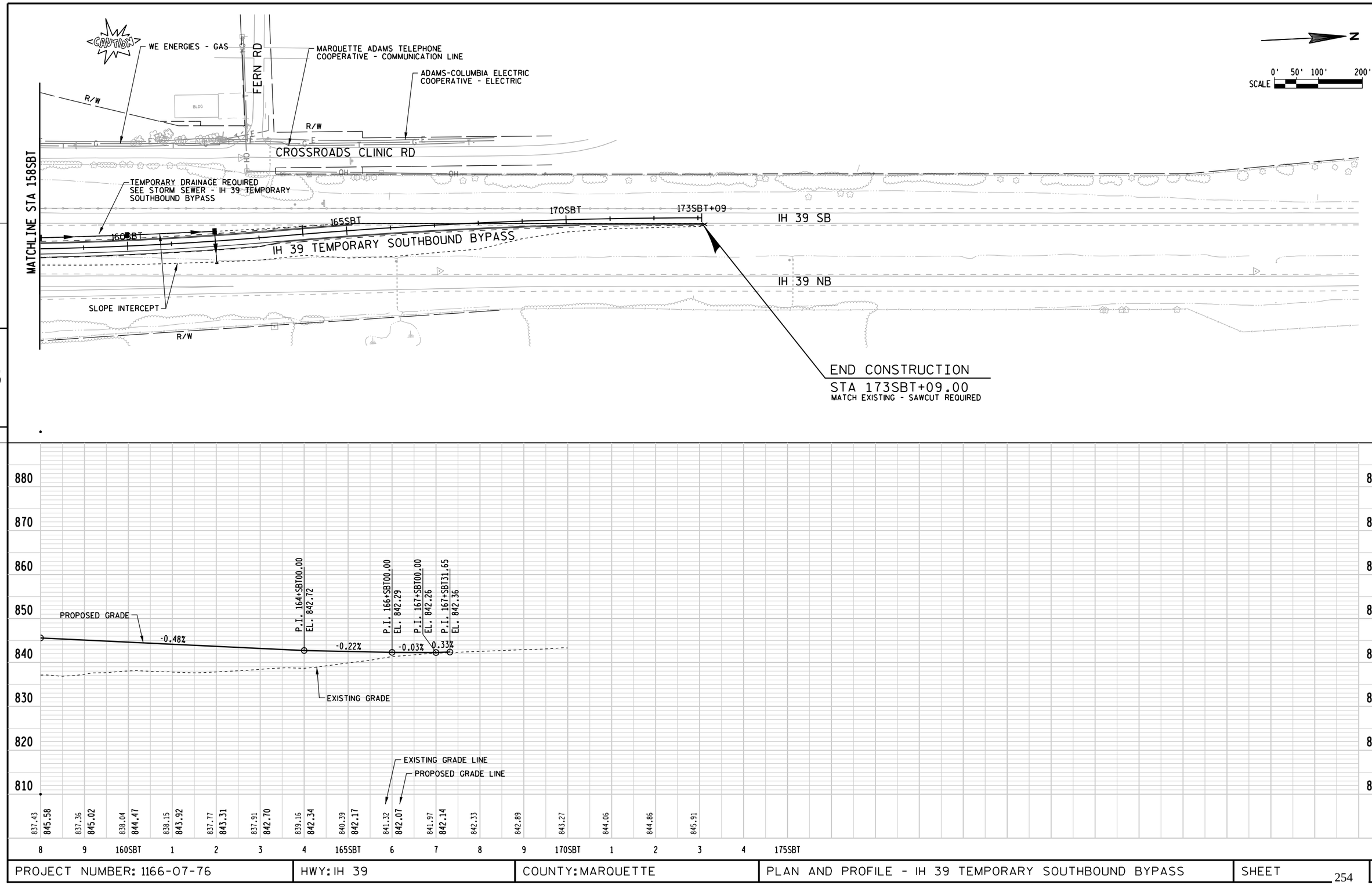
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BATCH PRINT SHEET 10 OF 13
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 11:28:30 AM
PLOT SCALE: 1:200
WISDOT/CADDS SHEET 40





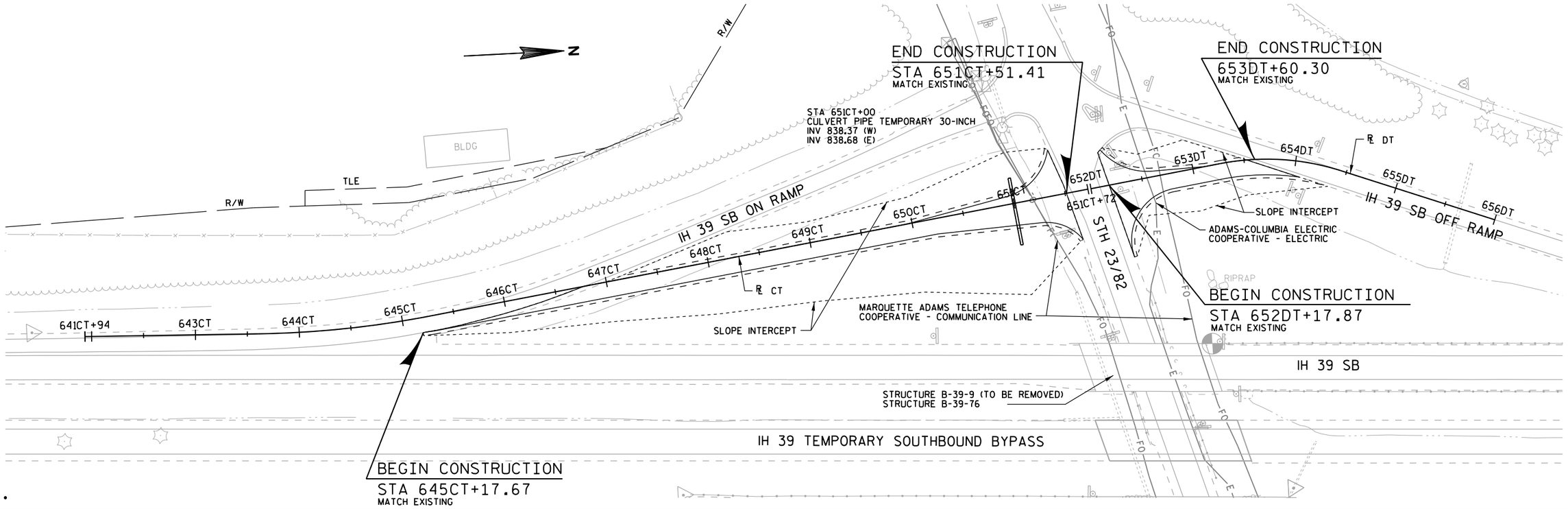
PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PLAN AND PROFILE - IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 253	E

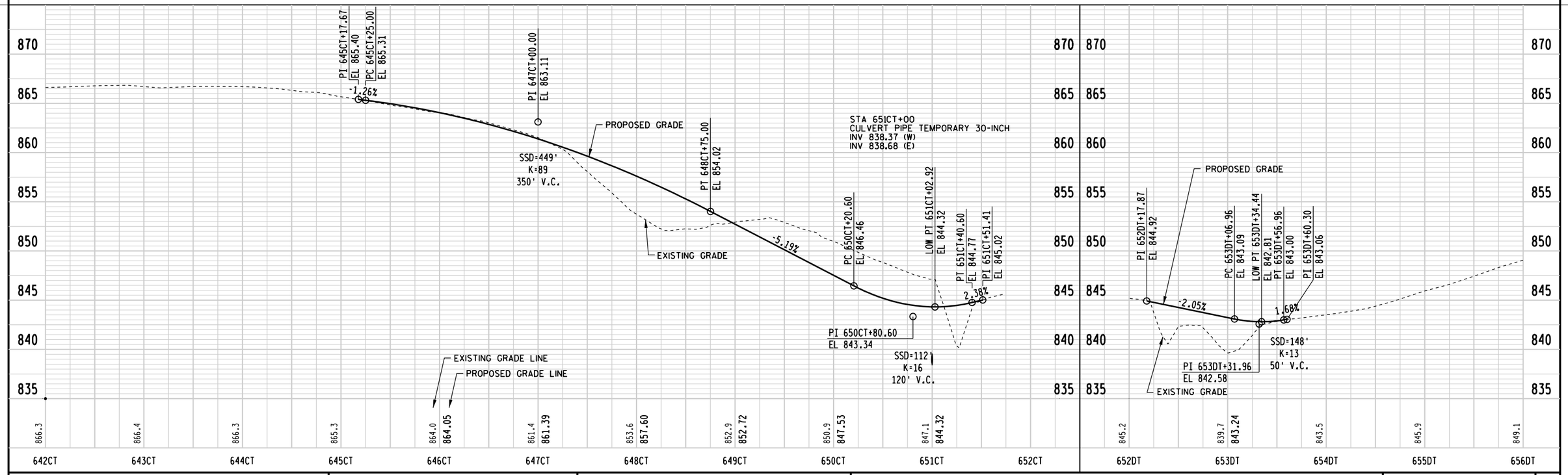
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BATCH PRINT SHEET 11 OF 13
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 11:28:32 AM
PLOT SCALE: 1:200
WISDOT/CADDS SHEET 40



PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PLAN AND PROFILE - IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 254	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\050112_pp.dgn
BATCH PRINT SHEET 12 OF 13
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 11:28:34 AM
PLOT SCALE: 1:200
WISDOT/CADDS SHEET 40

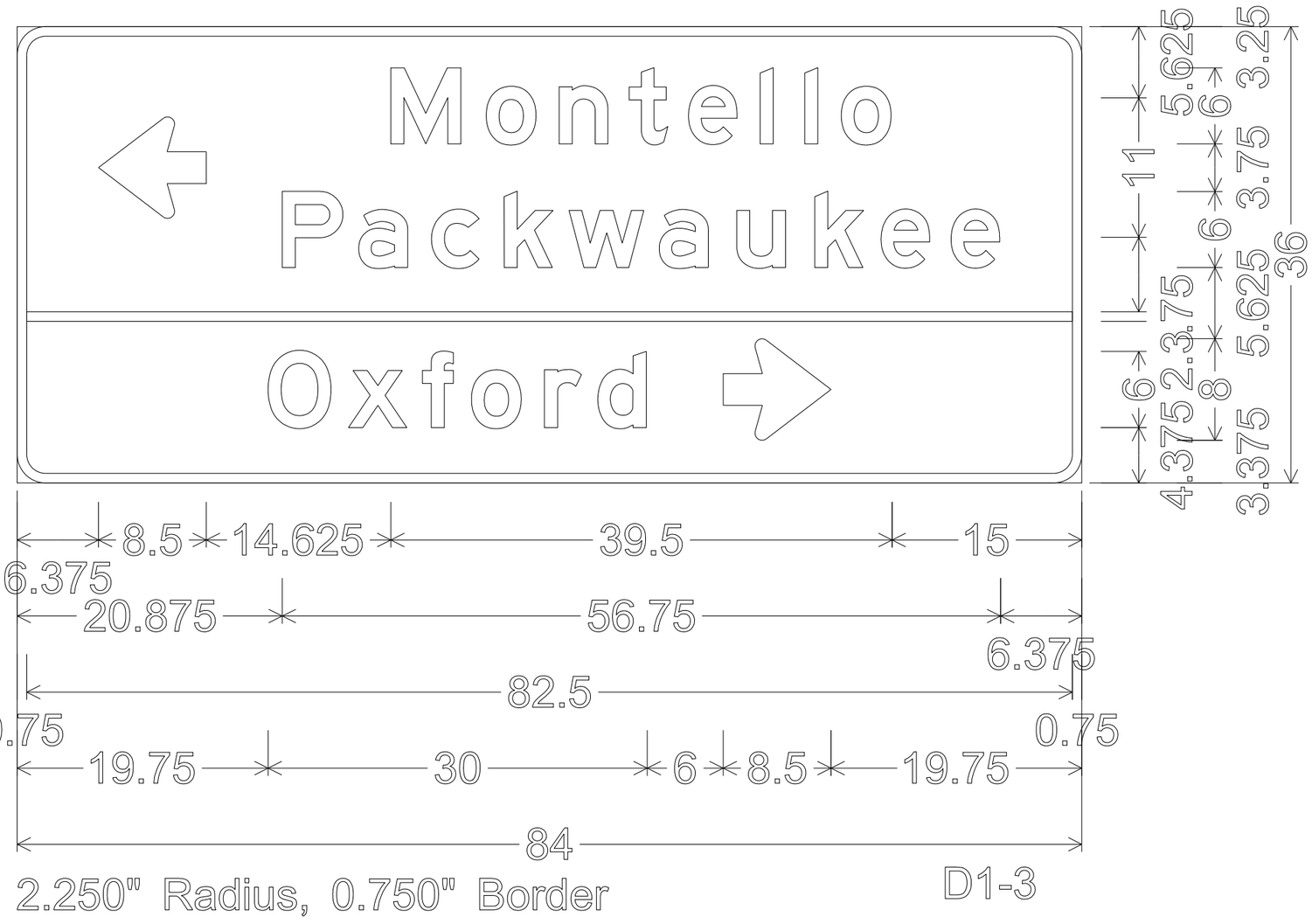




PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PLAN & PROFILE - TEMPORARY C RAMP AND TEMPORARY D RAMP	SHEET 255	E

NOTES

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



7

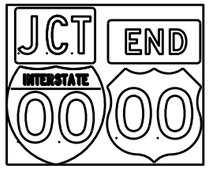
7

PROJECT NO: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	PERMANENT SIGNING	SHEET NO: 256	E

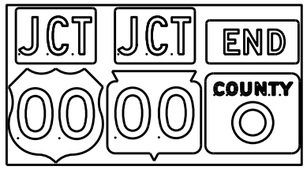
TYPICAL ASSEMBLIES



J1-1



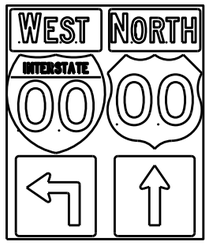
J1-2



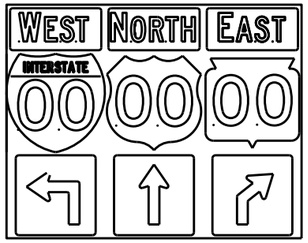
J1-3



J2-1



J2-2

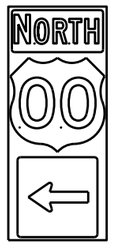


J2-3

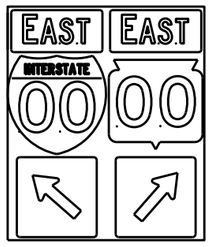


JV

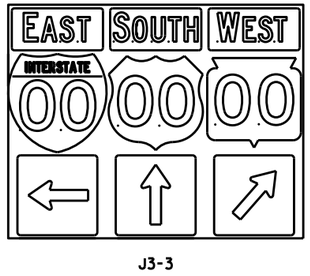
(Typical Vertical J-Assembly
See Note 10 and 11)



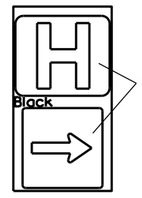
J3-1



J3-2



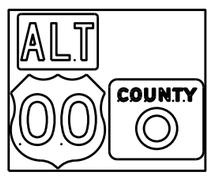
J3-3



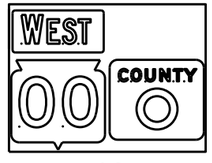
JH-1



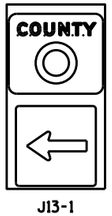
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

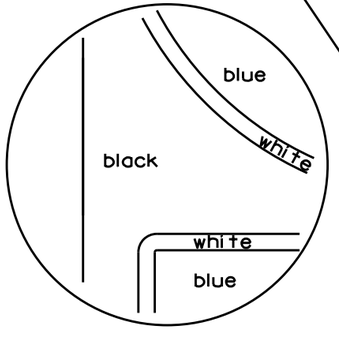


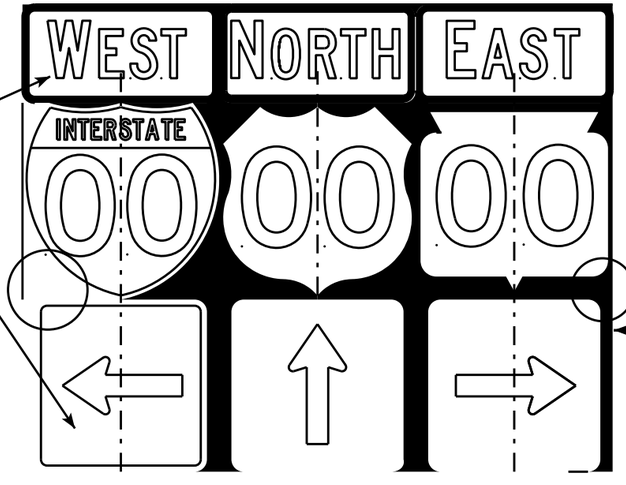
J23-1

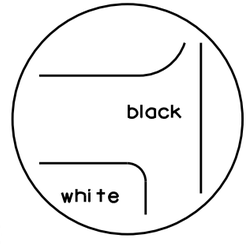


J22-1

[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

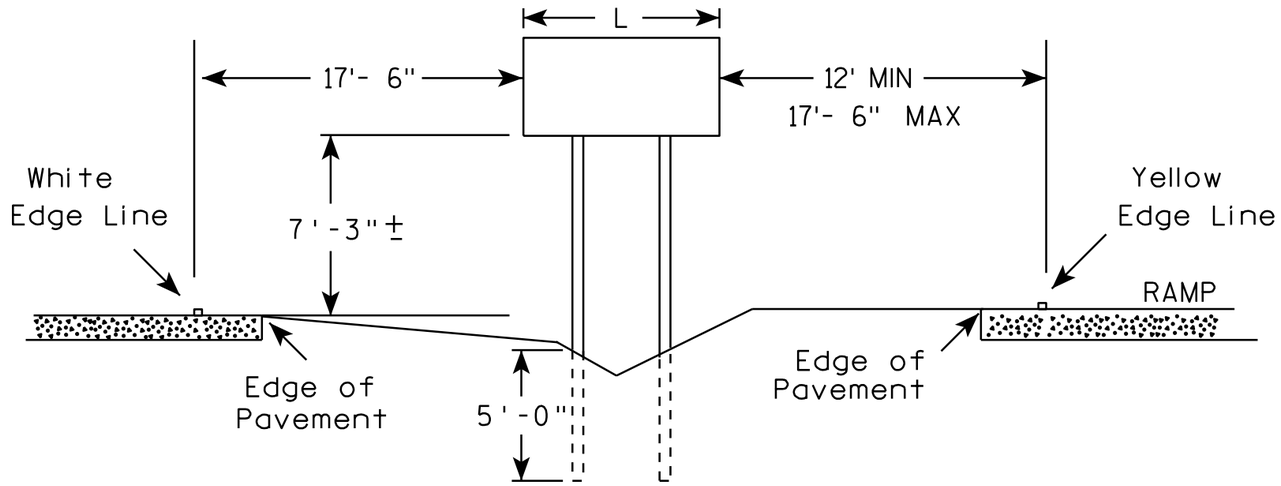
WISCONSIN DEPT OF TRANSPORTATION

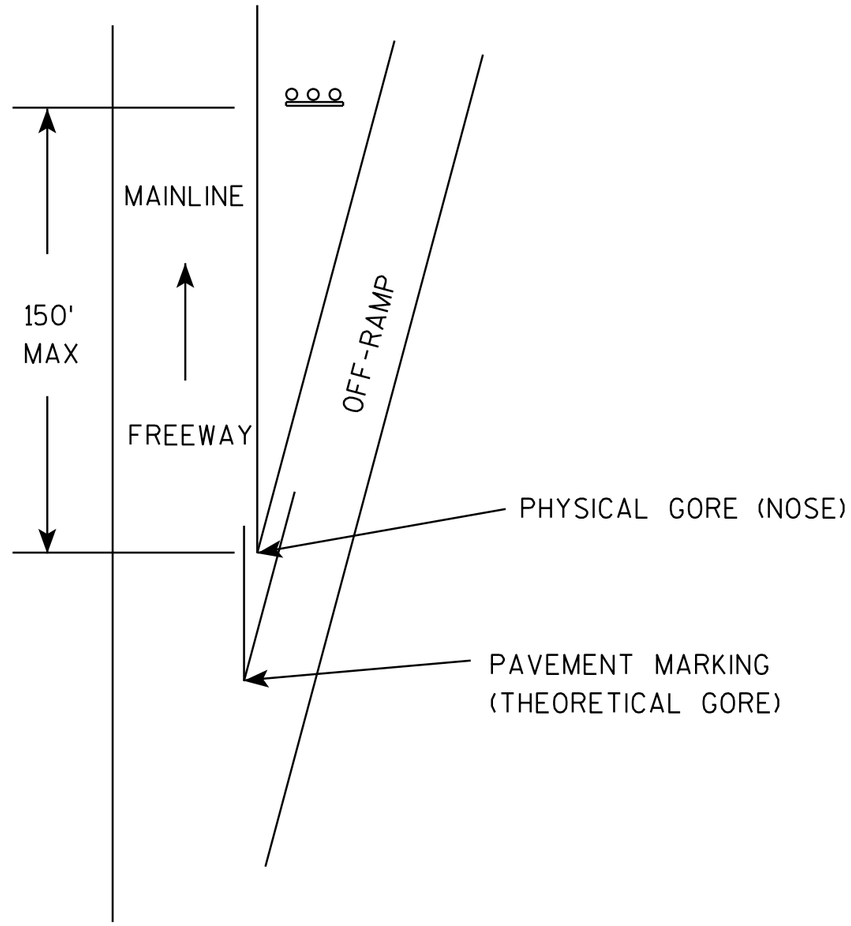
APPROVED Matthew R Rauch
for State Traffic Engineer

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





GENERAL NOTES

1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
5. When L is equal to or exceeds 10 feet, use 3 posts as per A4-4.
6. The (∓) tolerance for the mounting height is 3 inches.

7

7

TYPICAL INSTALLATION
OF TYPE II SIGNS ON
WOOD POSTS IN GORE

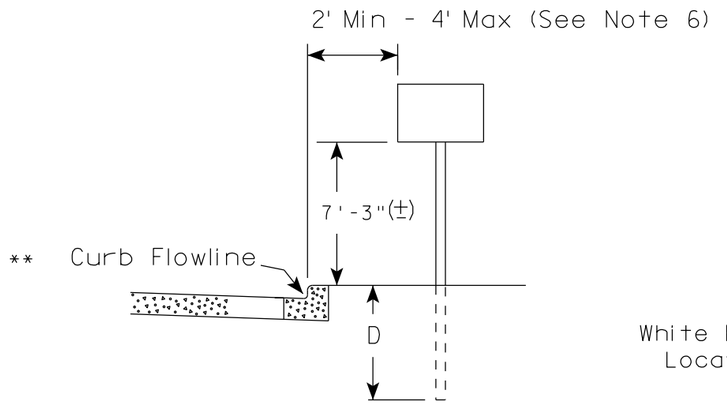
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

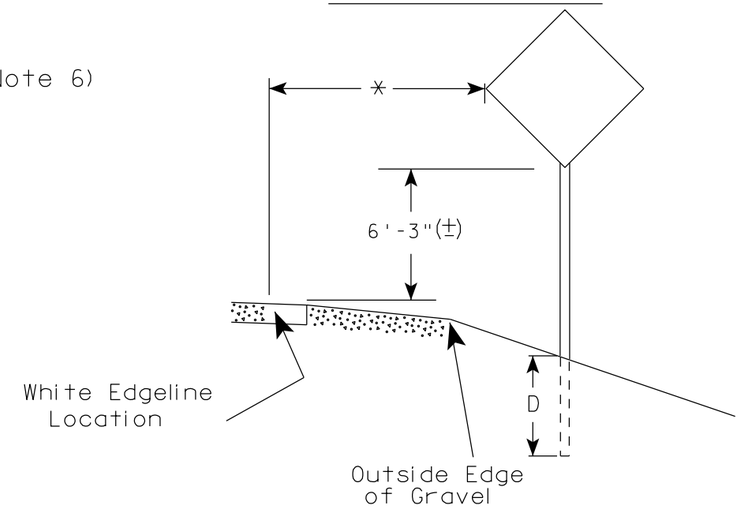
DATE 2/06/14 PLA 258 A4-2.3

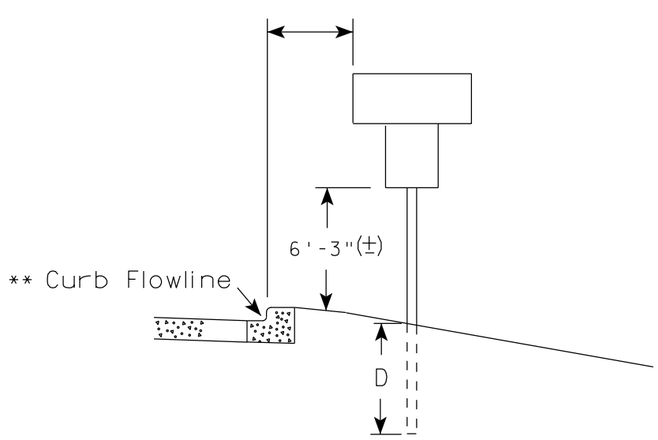
PROJECT NO: | SHEET NO: E

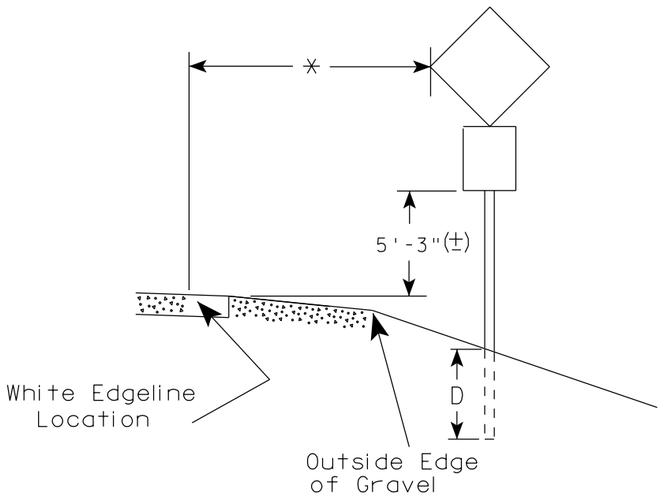
URBAN AREA



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.

POST EMBEDMENT DEPTH

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

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
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" (±).

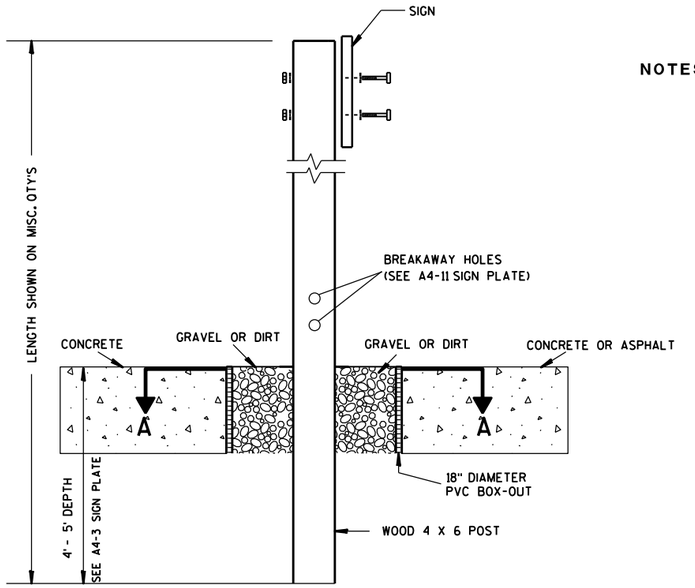
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

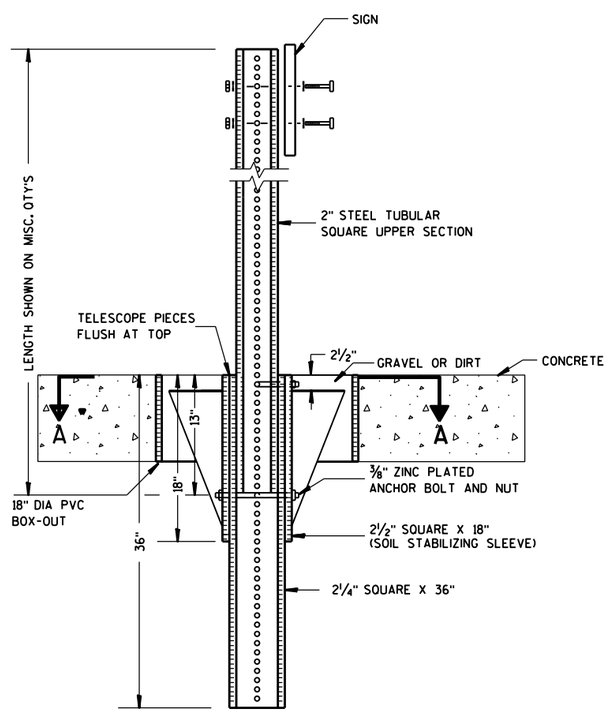
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

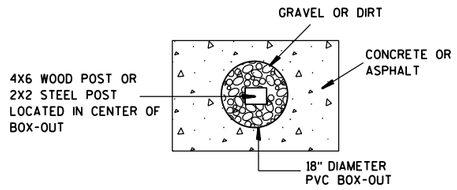
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

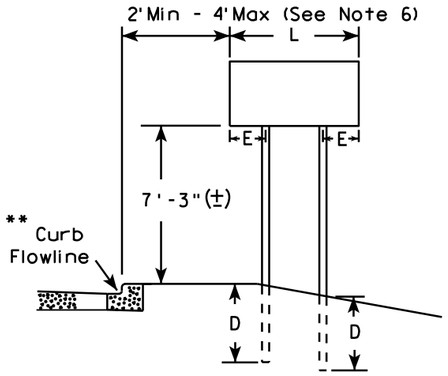
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

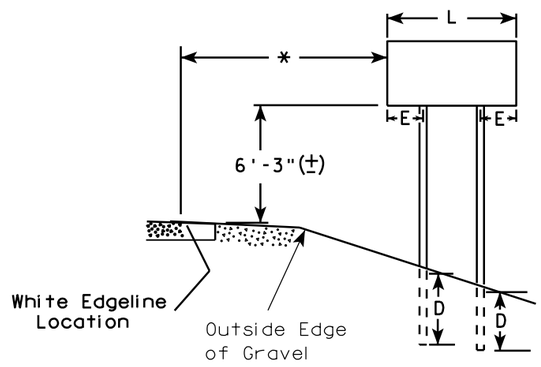
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

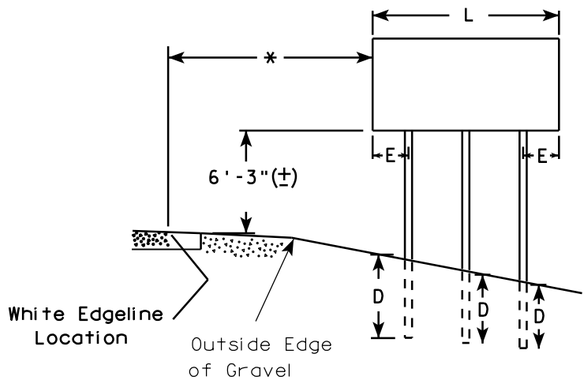
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

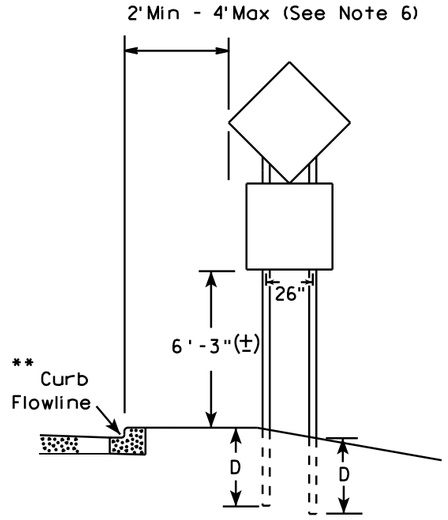
URBAN AREA



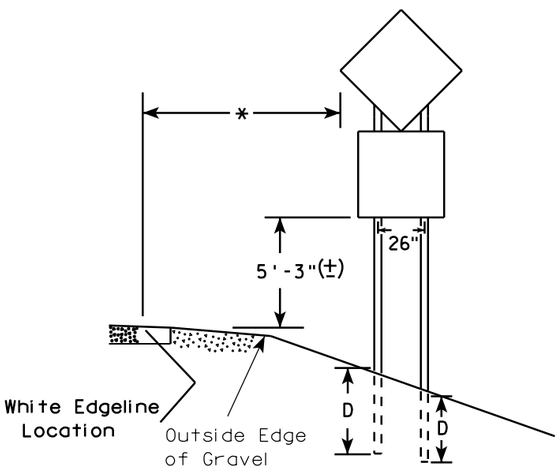
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
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.

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

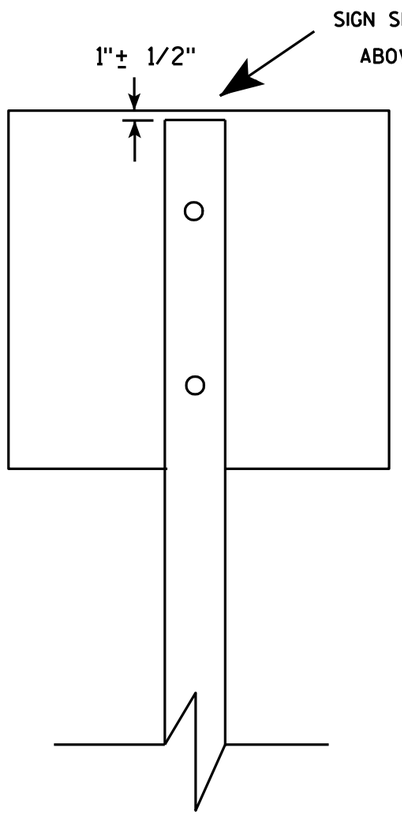
WISCONSIN DEPT OF TRANSPORTATION

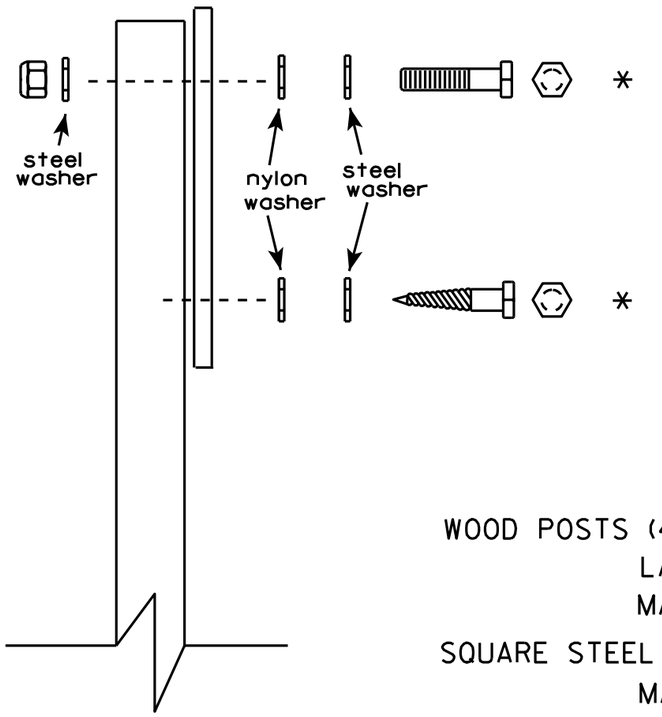
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 23-JUL-2015 15:23 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000 WISDOT/CADDS SHEET 42





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

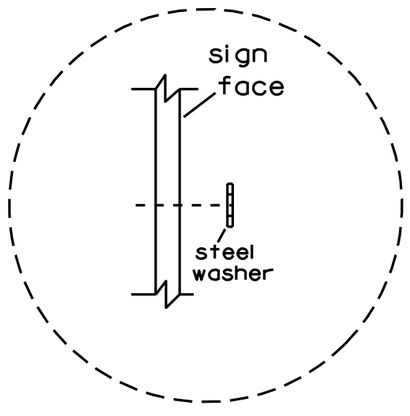
a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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.



Washer Placement when Sign Has Other Than Type H or Type F Face

* 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 3/23/10 PLATE NO. A4-8.7

7

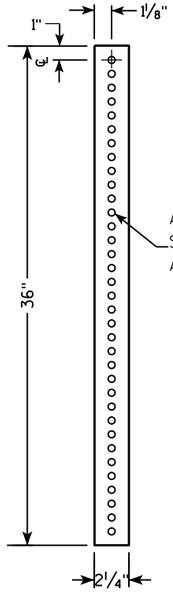
7

PROJECT NO:

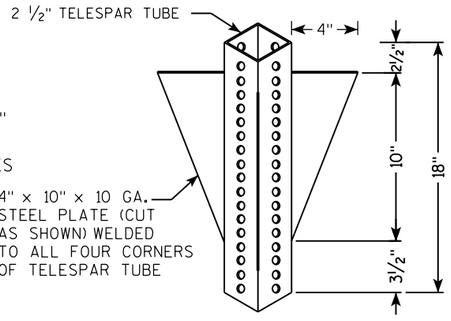
SHEET NO: 262 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

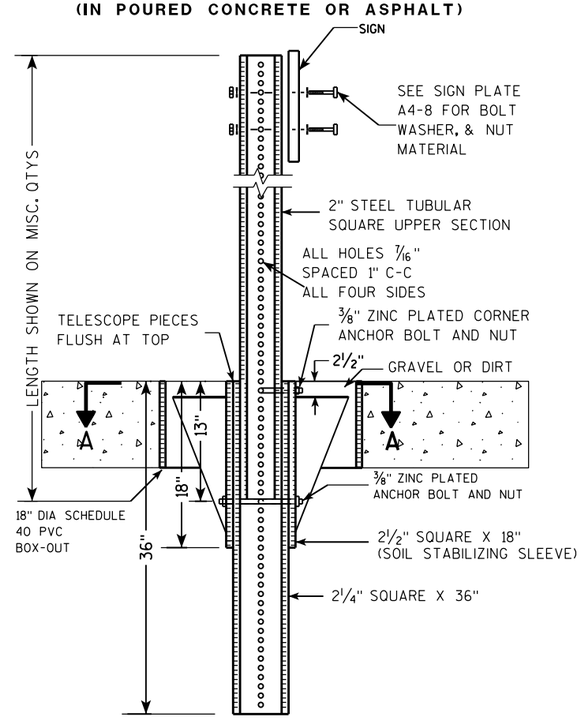
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



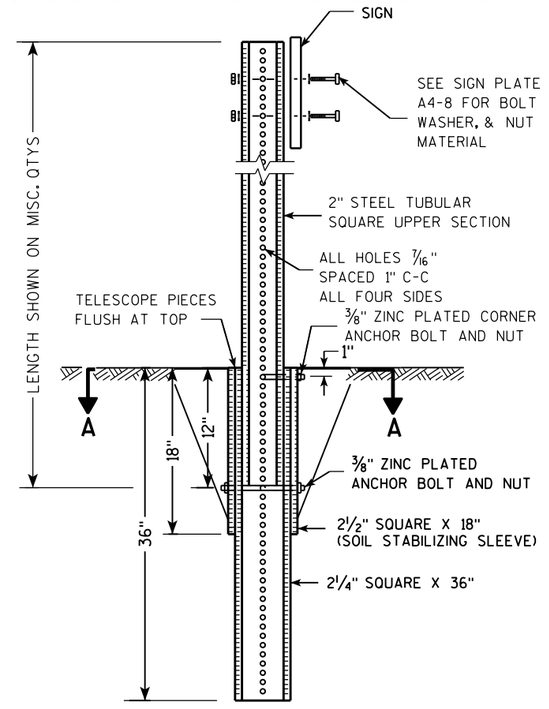
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

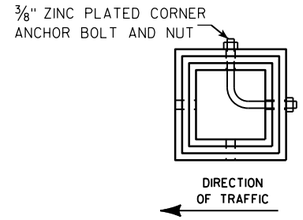


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

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

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

TUBULAR STEEL
SIGN POST
A4-9

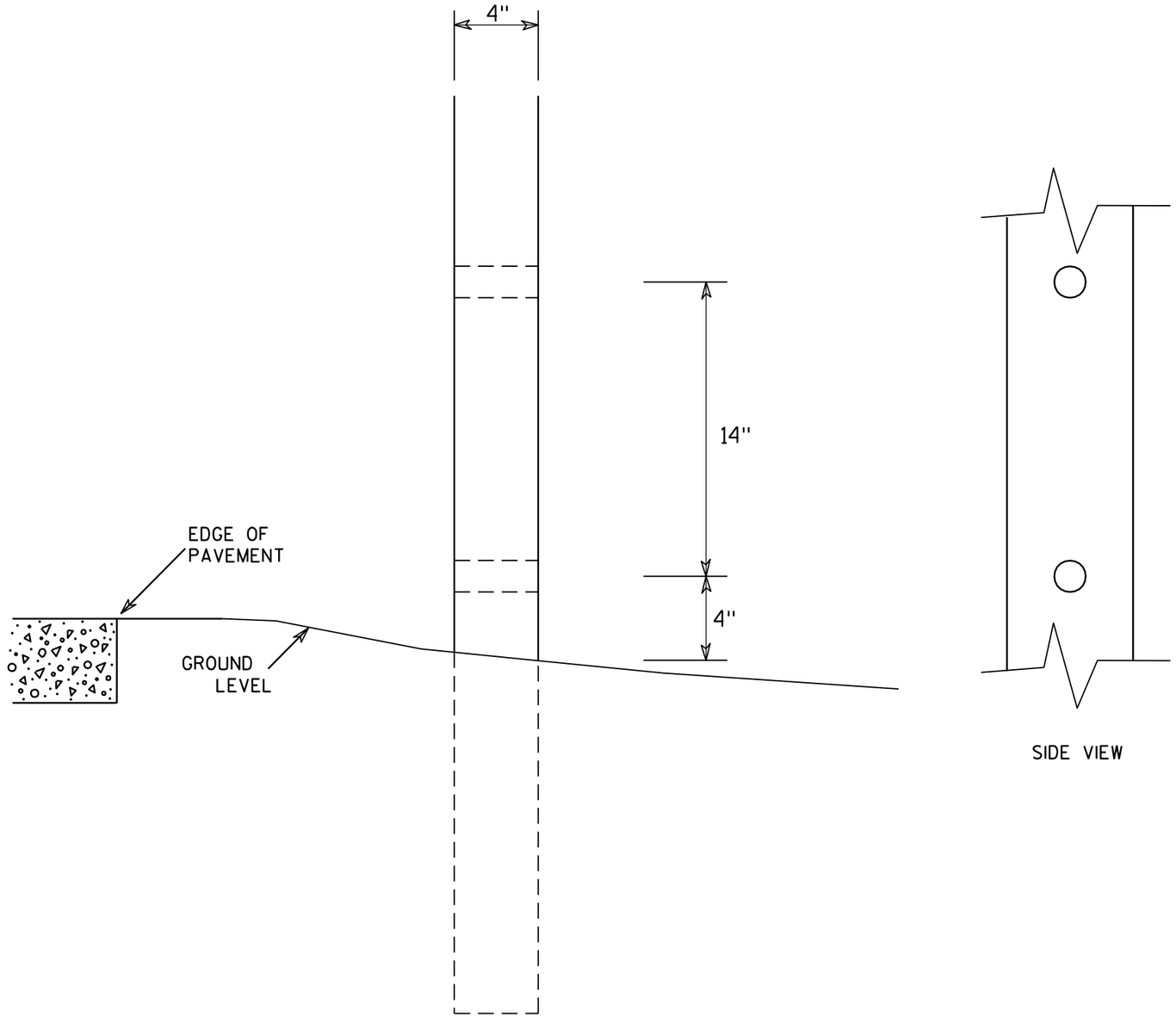
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

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 WISDOT/CADDS SHEET 42



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.

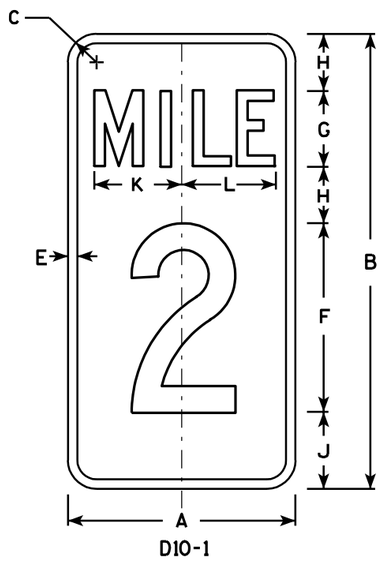
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

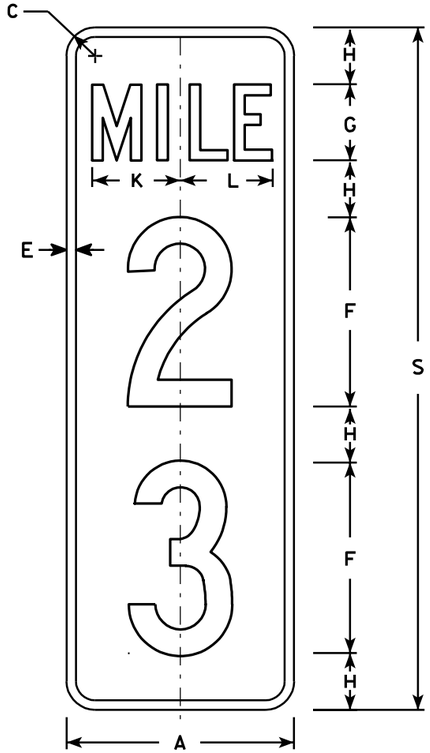
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

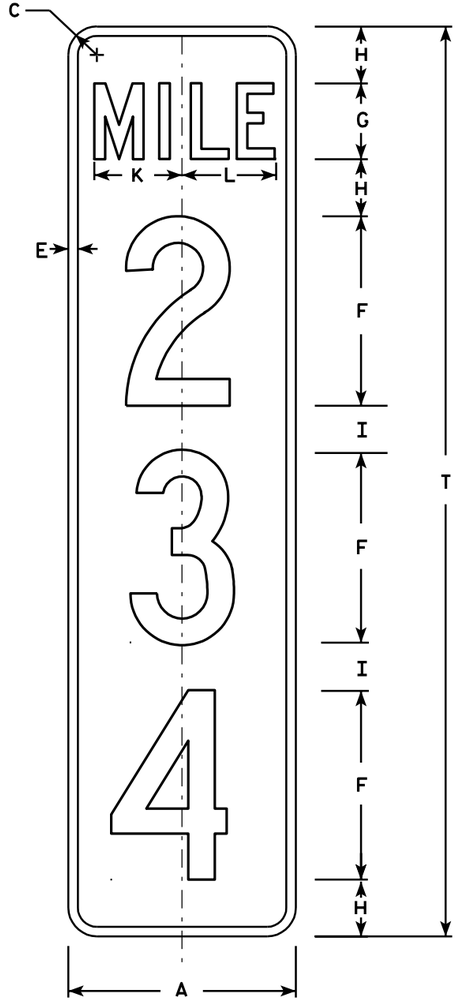
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 264	E



D10-1



D10-2



D10-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
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. Optically adjust numerals about the centerline of the sign to achieve proper balance.

Metric equivalent for this sign is:

PHY. SIZE	
12 X 24	300 mm X 600 mm
12 X 36	300 mm X 900 mm
12 X 48	300 mm X 1200 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
1																										
2																										
3																										
4	12	24	1 ½		½	10	4	3	2 ½	4	4 ⅝	4 ⅞							36	48						
5	12	24	1 ½		½	10	4	3	2 ½	4	4 ⅝	4 ⅞							36	48						

D10-1	D10-2	D10-3
Area sq. ft.	Area sq. ft.	Area sq. ft.
2.0	3.0	4.0
Area m2	Area m2	Area m2
.19	.28	.38

STANDARD SIGN
D10-1 , D10-2 & D10-3

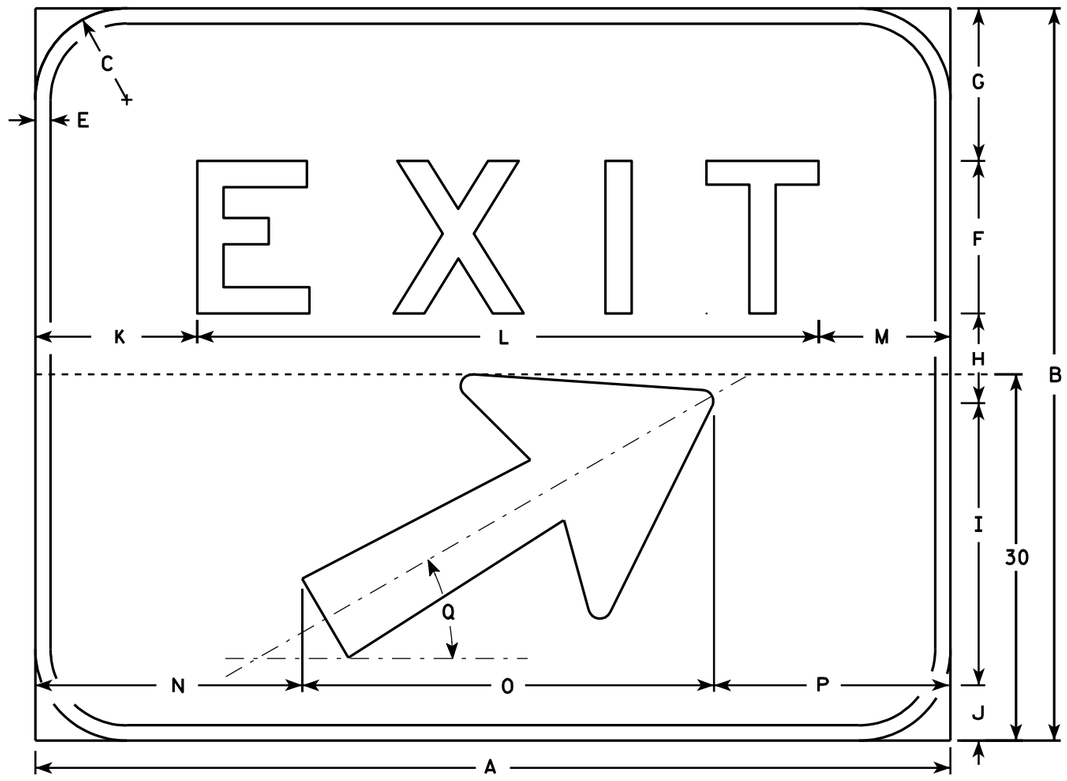
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for Director, Office of Traffic

DATE 1/16/02 PLATE NO. D10-3.2

PROJECT NO:

SHEET NO: 265 E



E5-1

NOTES

1. Sign is Type II - Type H reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White (Type H reflective)
3. Message Series - E
4. Corners may be square or rounded but borders shall be rounded as shown.
5. Base material for this sign shall be plywood and shall be split into two seperate pieces for the 72 x 60 size as shown on the detail by the dashed line (----------).
6. Arrow is Type "A" from sign plate A1-1.
7. As per the Standard Spec's, this sign shall not have a vertical joint.

Metric equivalent for this sign is:

SIZE	
1	
2	
3	
4	1500 mm X 1200 mm
5	1800 mm X 1500 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																												
2																												
3																												
4	60	48	6		1	10	10	5 7/8	18 1/2	3 5/8	10 5/8	40 3/4	8 5/8	17 1/2	27	15 1/2	30°										20.0	1.80
5	72	60	6		1	12	12	10	18 1/2	7 1/2	13 1/4	48 1/2	10 1/4	23 1/2	27	21 1/2	30°										30.0	2.70

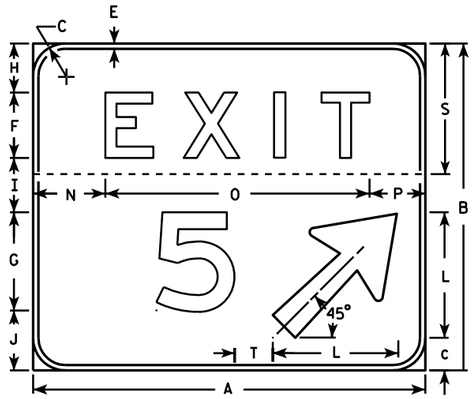
STANDARD SIGN
E5 - 1

WISCONSIN DEPT OF TRANSPORTATION

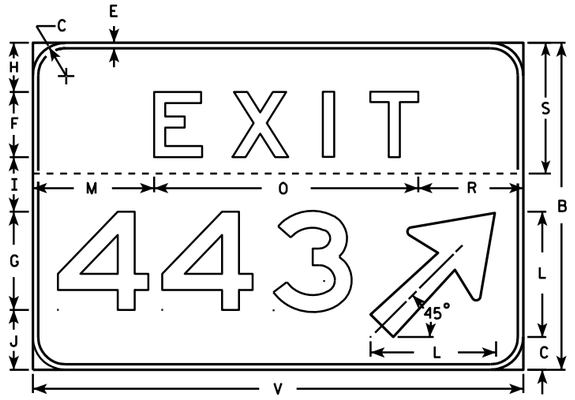
APPROVED Chester J Spang for State Traffic Engineer

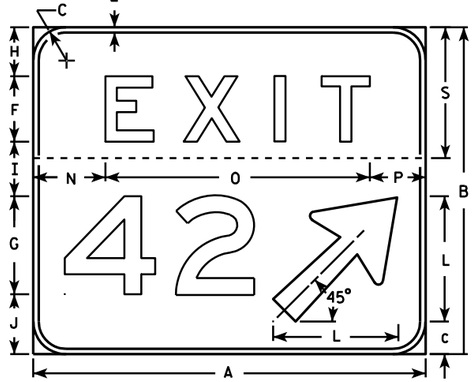
DATE 6/22/00 PLATE NO. E5-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 266	E

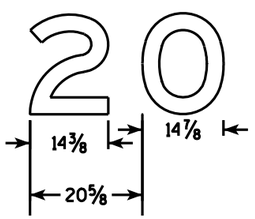


NOTE: T diminision shall be measured from the back of the number to the front of the arrow





EXAMPLE FOR USING SPACING CHART



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 - E
4. Corners may be square or rounded but the border shall be rounded as shown.
5. Base material for this sign shall be plywood and shall be split into two seperate pieces as shown on each detail by the dashed line (----------).
6. Arrow is Type "A" from sign plate A1-1.
7. Substitute appropriate message, space per the table and adjust placement on sign to achieve proper balance.
8. As per the Standard Spec's, these signs shall not have a vertical joint.

SPACING CHART FOR 18" NUMERALS

NUMBERS	WIDTH	0	1	2	3	4	5	6	7	8	9	A	B	C
0	14 7/8	21 5/8	21 5/8	21 1/4	20 3/8	21 1/4	21 1/4	21 5/8	19 7/8	22 1/8	21 5/8			
1	5 7/8	14	14	14	13 1/8	12 1/8	14	14	12 1/4	14	14			
2	14 3/8	20 5/8	21 1/8	20 5/8	19 3/4	20 1/4	20 5/8	20 5/8	18 7/8	21 1/8	20 5/8			
3	14 3/8	20 3/4	21 1/8	20 3/4	20 1/4	19 3/4	20 3/4	20 3/4	19 3/8	21 1/8	20 3/4			
4	16 5/8	22 7/8	22	22 1/2	21 5/8	21 5/8	22 7/8	22 7/8	20 5/8	23 3/8	22 7/8			
5	14 1/4	20 5/8	20 5/8	20 1/8	18 3/4	18 3/4	20 5/8	20 5/8	18 3/8	20 5/8	20 5/8			
6	14 1/2	21 1/4	20 3/4	20 3/4	19 7/8	19 1/2	20 3/8	20 3/4	19	20 3/4	20 3/8			
7	14 3/8	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4			
8	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8			
9	14 1/2	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4			
A	18	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4	21 5/8	23 7/8	23
B	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8	19 1/2	22 3/8	21 1/2
C	14 1/4	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4	18 3/8	21	19 3/4

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
2																										
3																										
4																										
5	72	60	6		1	12	18	9	10	11	8 7/8	23	22 1/4	13 1/4	48 1/2	10 1/4		19 1/4	24	7		90		96	7 1/2	

1-2 Digit Bid Area	3 Digit Bid Area
Sq. Ft.	
30	37.5

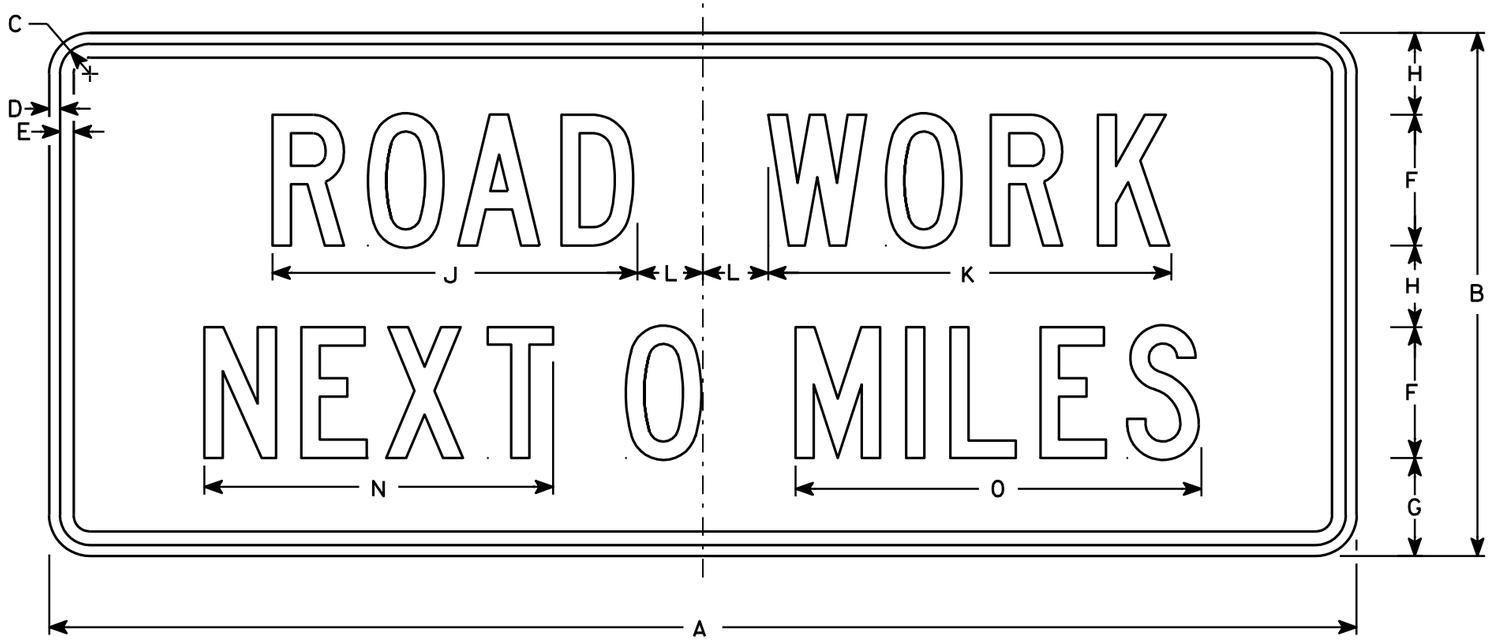
STANDARD SIGN
E5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/11/10 PLATE NO. E5-1A.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 267 | E



G20-1

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 - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

Metric equivalent for this sign is:

SIZE	
1	
2	1500 mm X 600 mm
3	
4	1500 mm X 600 mm
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10	.90
3																												
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10	.90
5																												

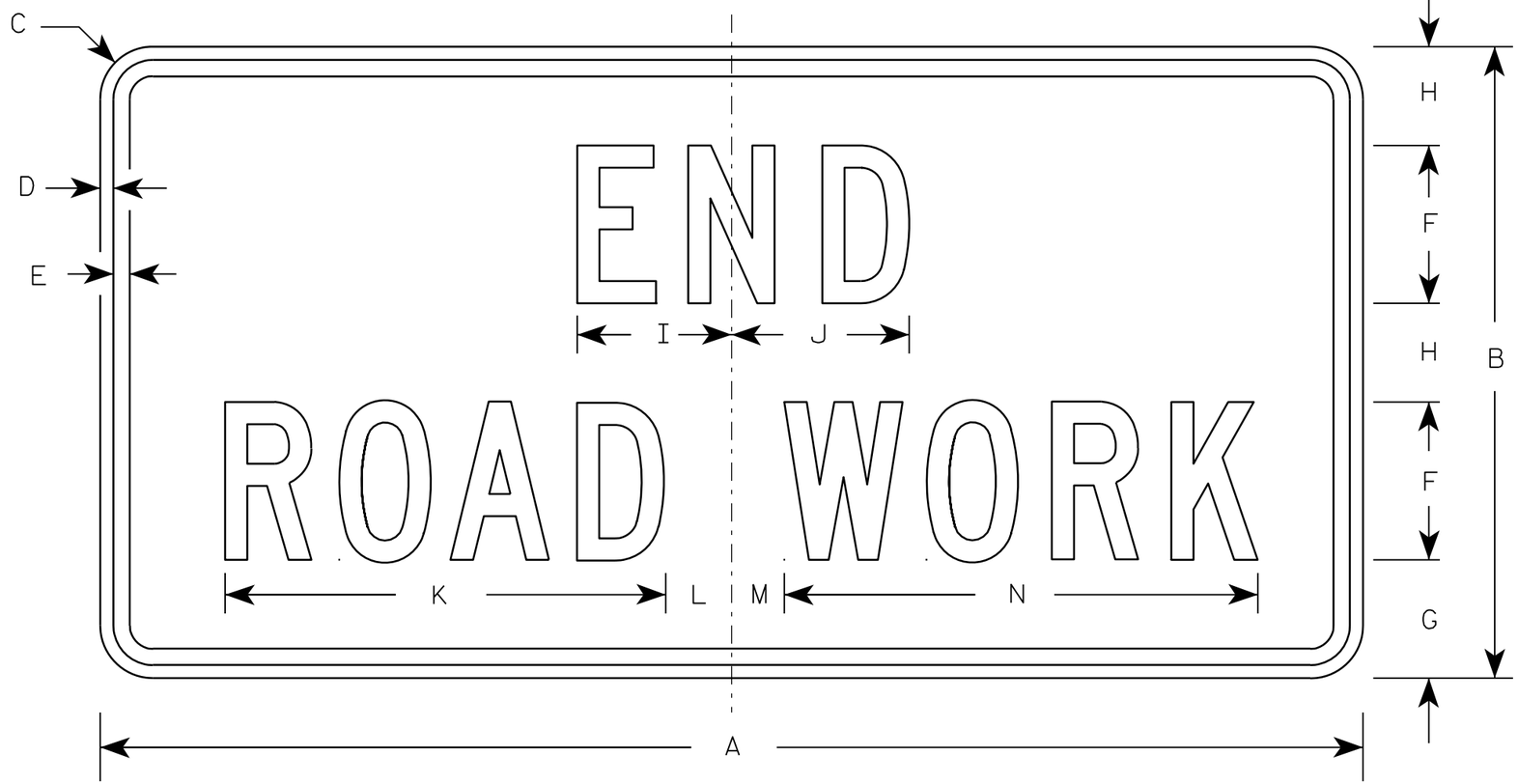
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spray for State Traffic Engineer

DATE 4/8/97 PLATE NO. G20-1.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 268	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

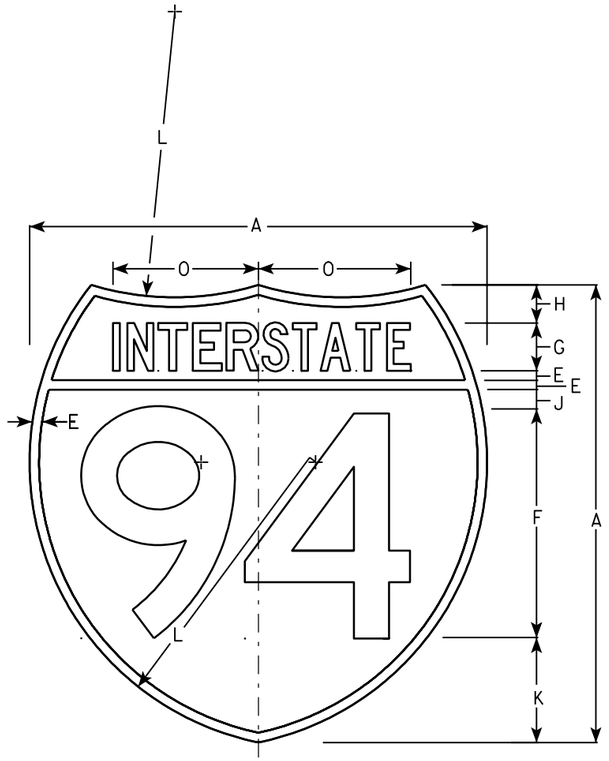
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

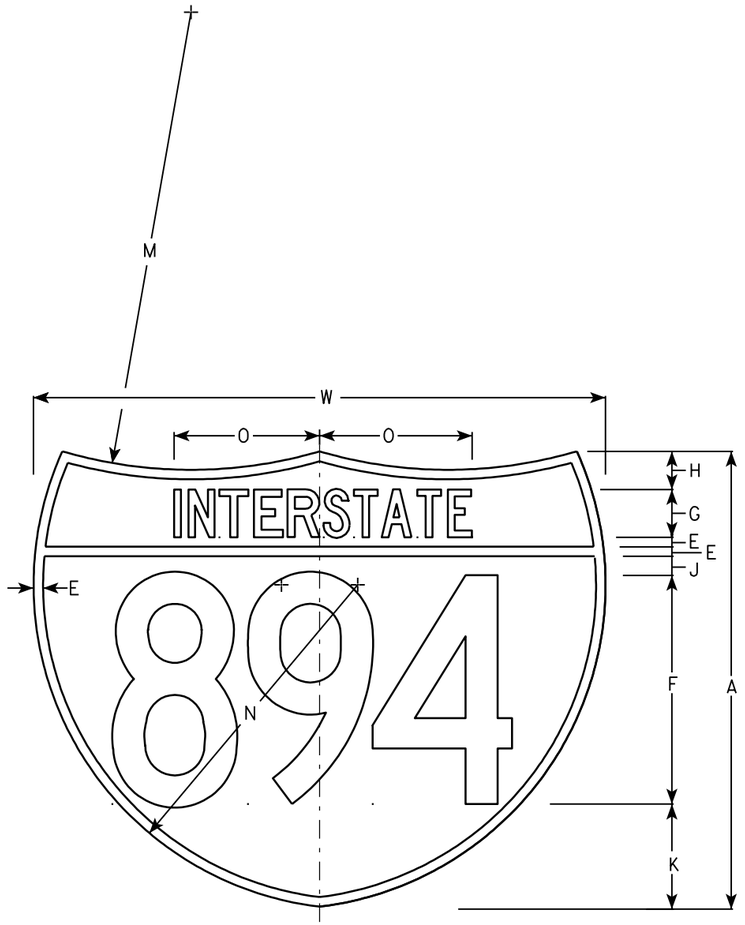
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 269	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

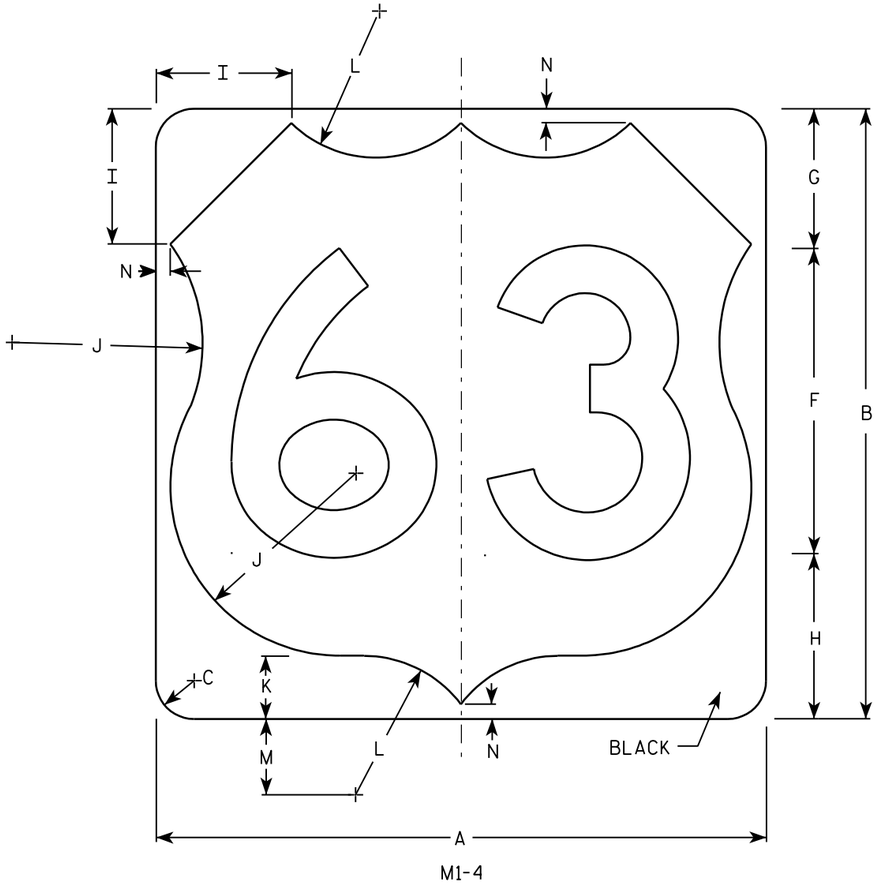
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

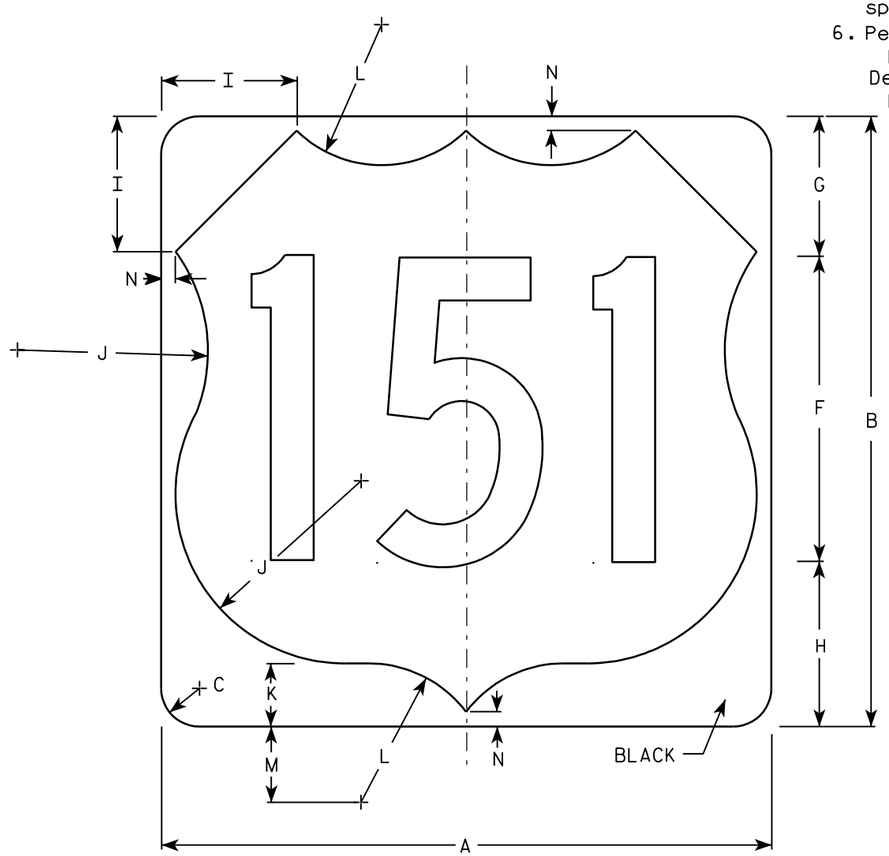
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 270	E

NOTES

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



M1-4



M1-4

Metric equivalent for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

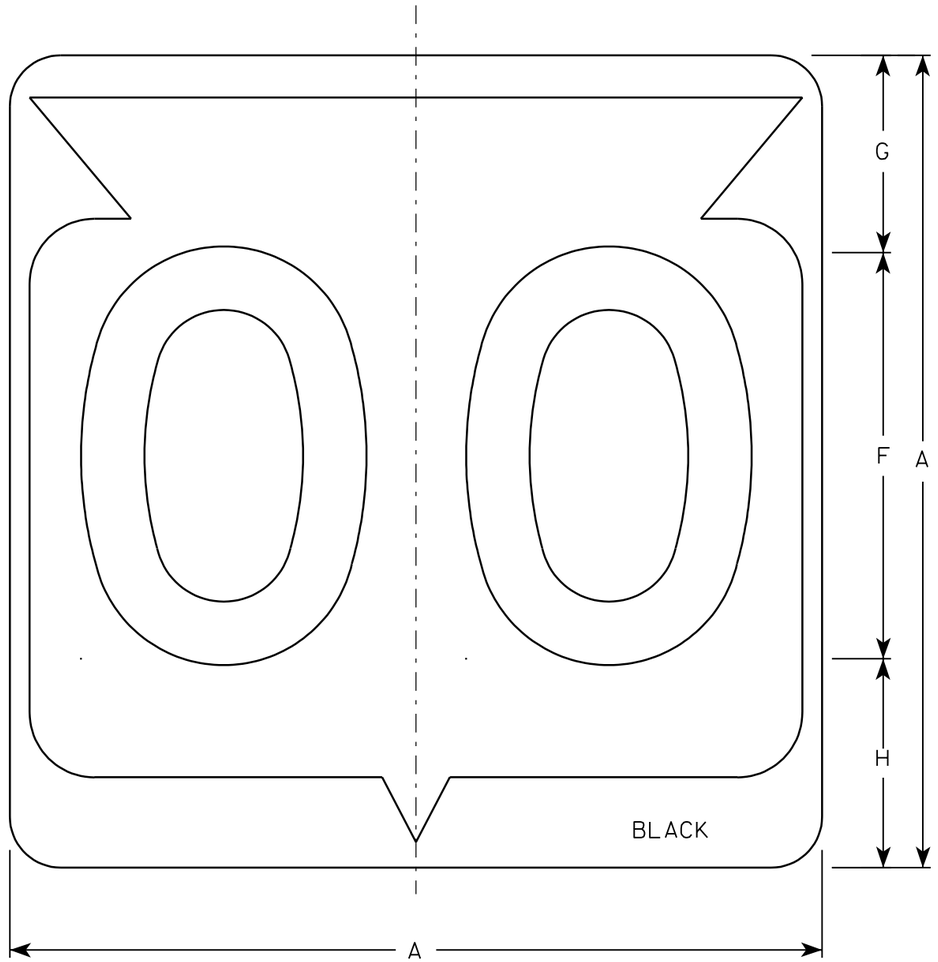
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/25/05 PLATE NO. M1-4.9

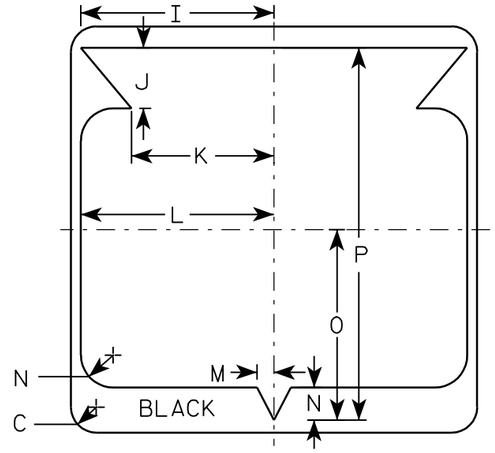
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 271 | E



M1-6

NOTES

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



Metric equivalent for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

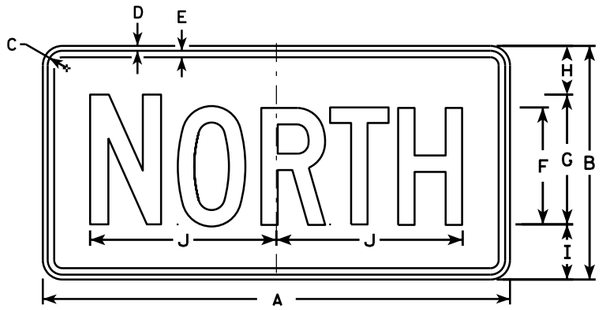
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

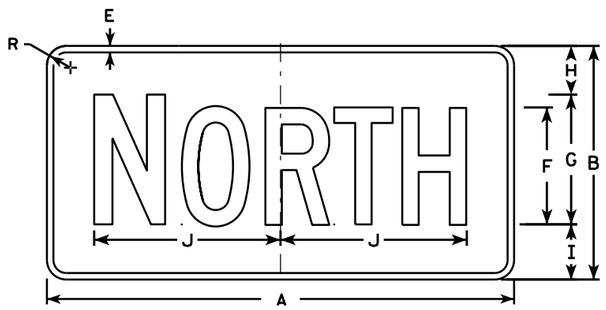
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 272	E



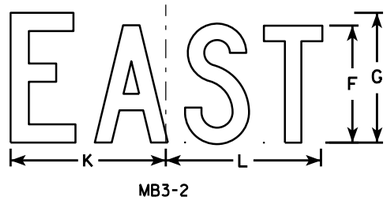
M3-1
MK3-1
MM3-1
MN3-1



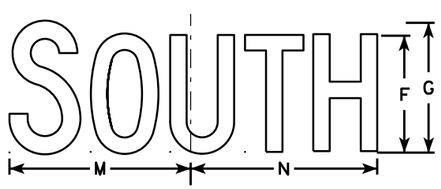
MB3-1



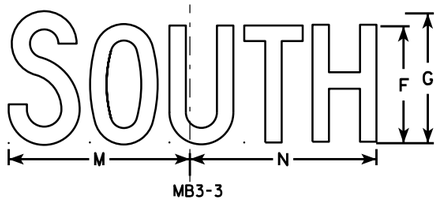
M3-2
MK3-2
MM3-2
MN3-2



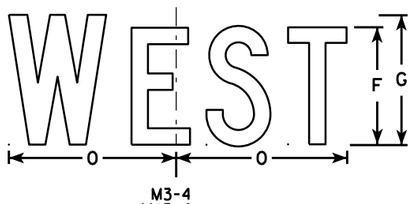
MB3-2



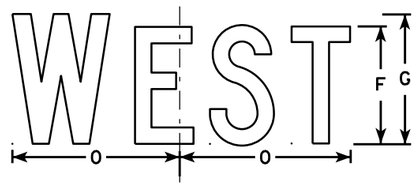
M3-3
MK3-3
MM3-3
MN3-3



MB3-3



M3-4
MK3-4
MM3-4
MN3-4



MB3-4

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
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

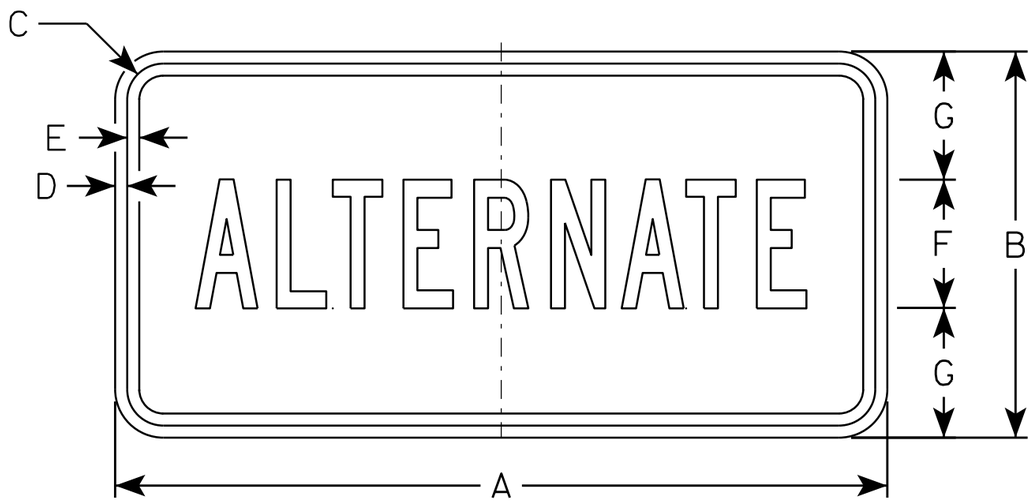
STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

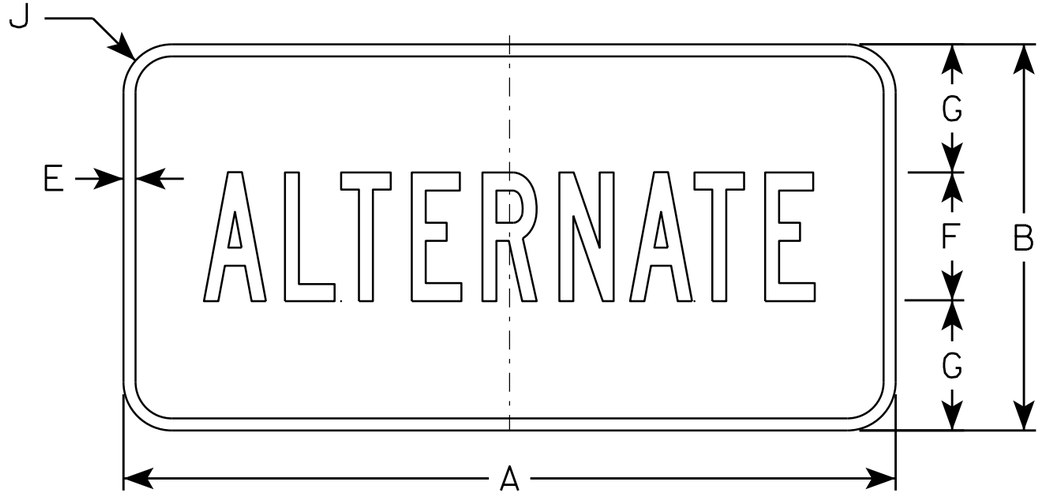
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 6/30/14 PLATE NO M3-1.13

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E



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

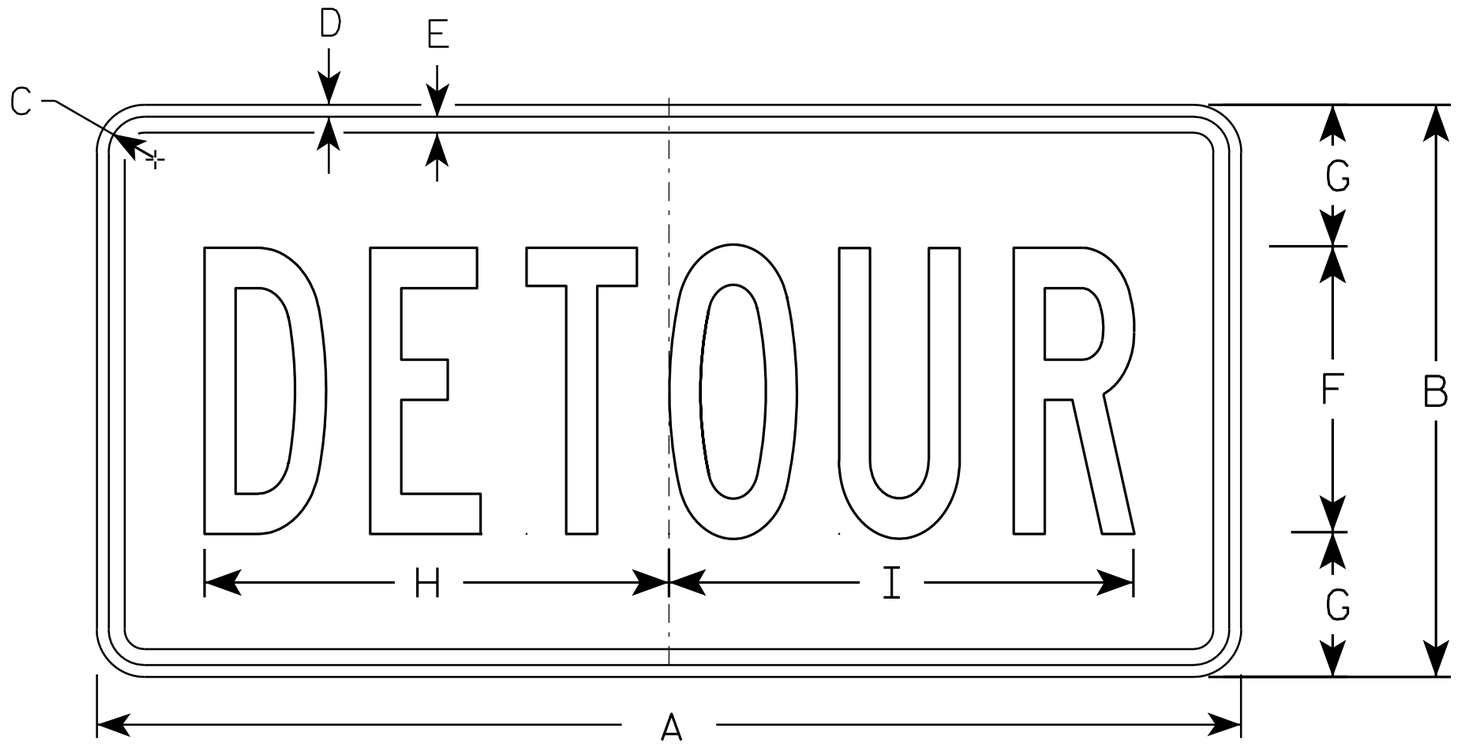
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/14 PLATE 14-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M41.DGN PLOT DATE : 30-JUN-2014 15:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 4.708937:1.000000 WISDOT/CADDS SHEET 42



M4-8

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

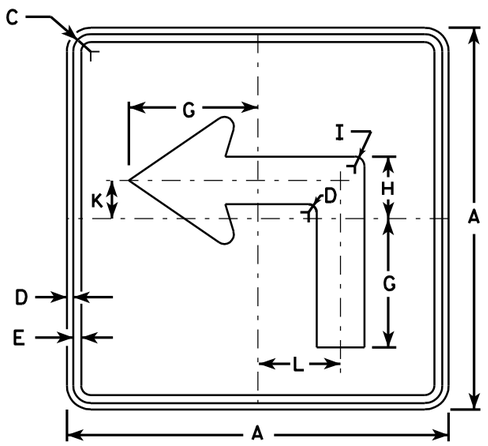
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

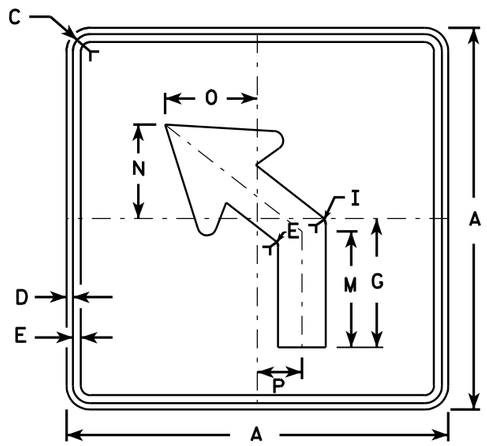
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

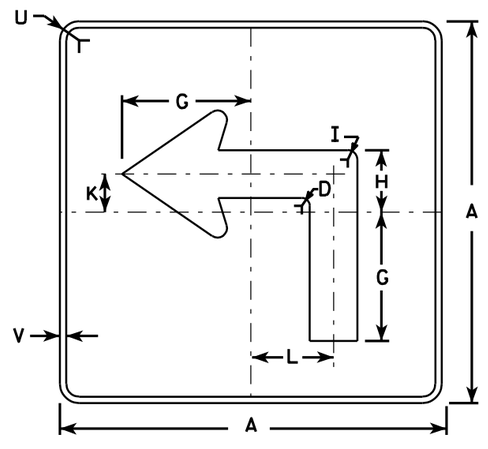
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 275	E



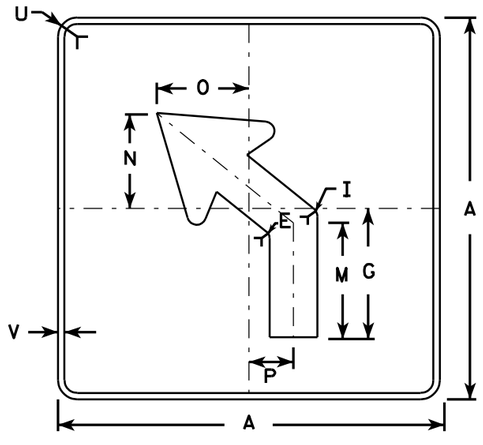
M5-1L
MK5-1L
MM5-1L
MO5-1L
MP5-1L
MR5-1L



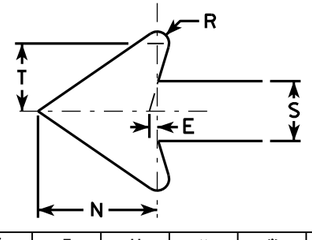
M5-2L
MK5-2L
MM5-2L
MO5-2L
MP5-2L
MR5-2L



MB5-1L
MG5-1L
MN5-1L



MB5-2L
MG5-2L
MN5-2L



NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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 - Type H Reflective
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White - Type H Reflective
   MG5-1 and MG5-2 Background - Green
   Message - White - Type H Reflective
   MK5-1 and MK5-2 Background - Green
   Message - White Type H Reflective
   MM5-1 and MM5-2 Background - White - Type H Reflective
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White - Type H Reflective
   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 - Type H Reflective
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 1/8	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 1/8	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 1/8	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

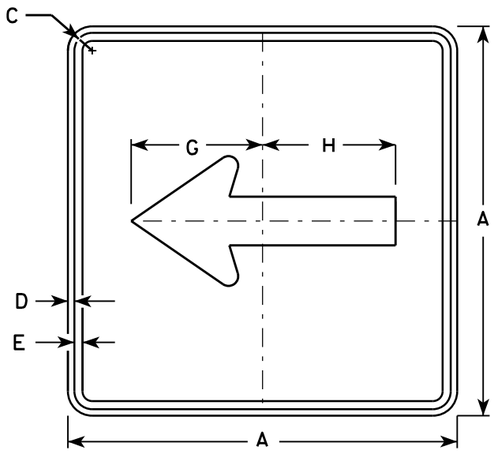
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

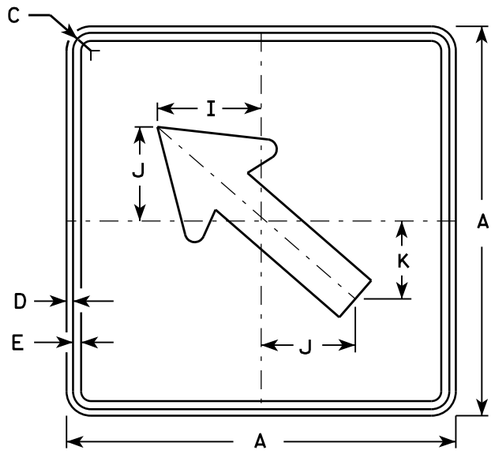
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/29/13 PLATE NO. M5-1.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 276 | E



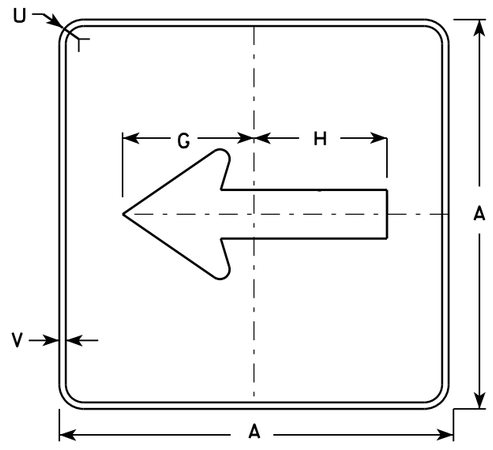
M6-1
MK6-1
MM6-1
MN6-1
MO6-1
MP6-1
MR6-1



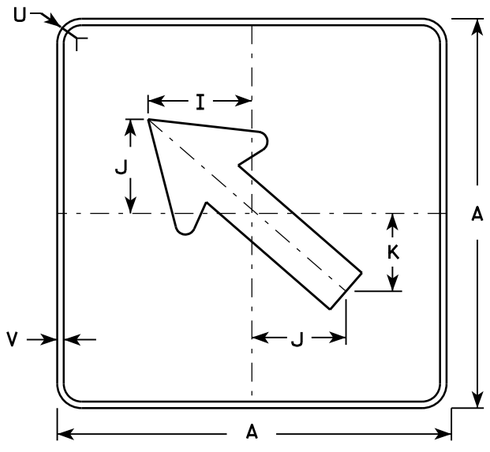
M6-2
MK6-2
MM6-2
MN6-2
MO6-2
MP6-2
MR6-2

NOTES

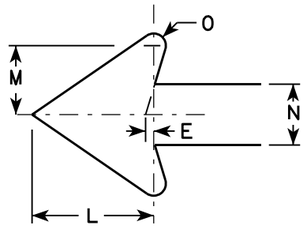
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MG6-1 and MG6-2 Background - Green
   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



MB6-2



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

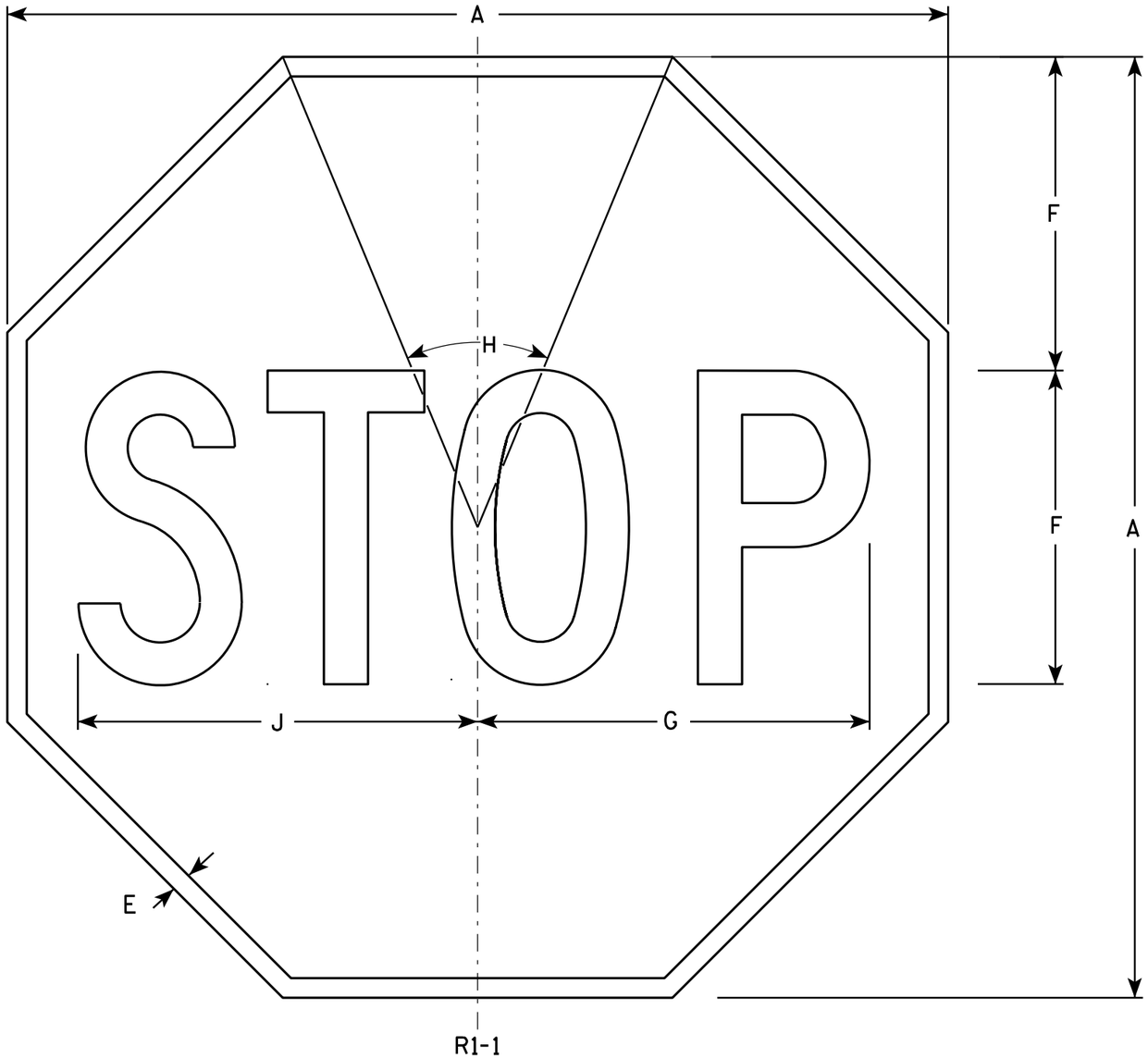
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/03/14 PLATE 277 M6-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
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

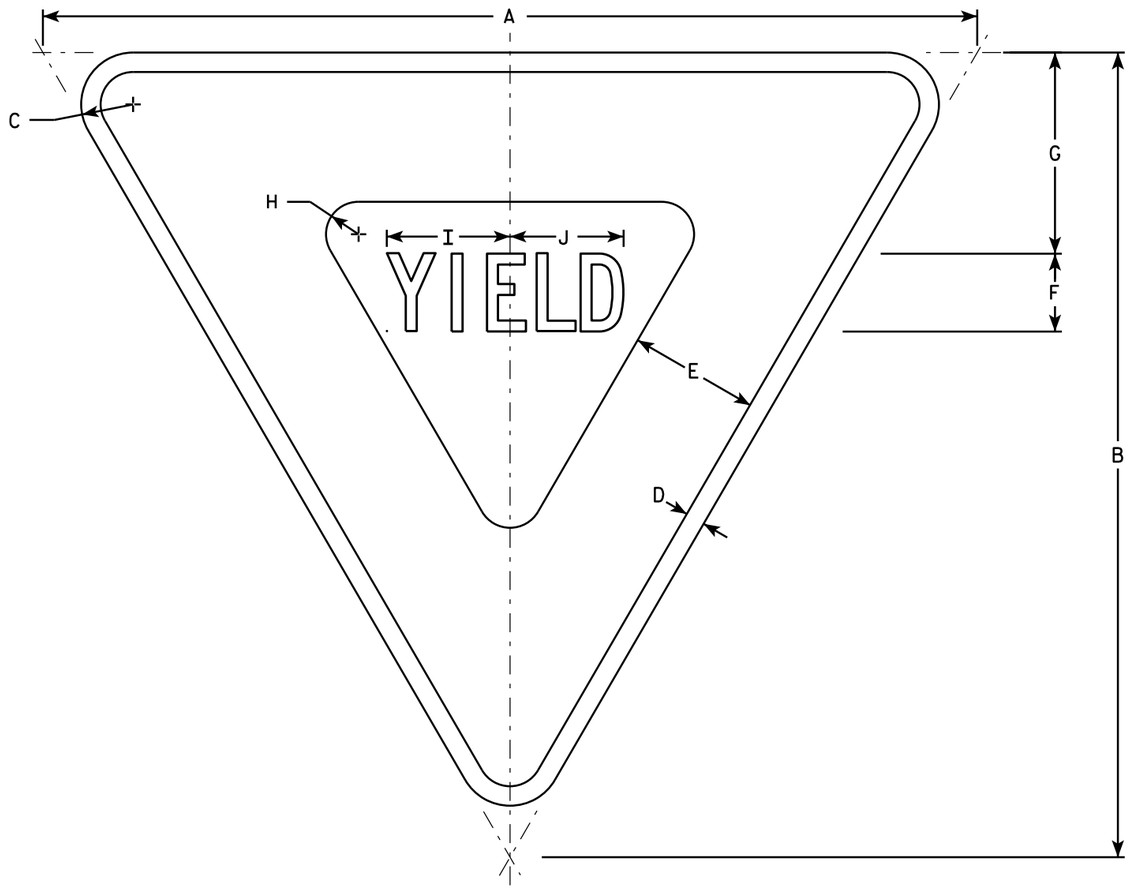
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 278	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

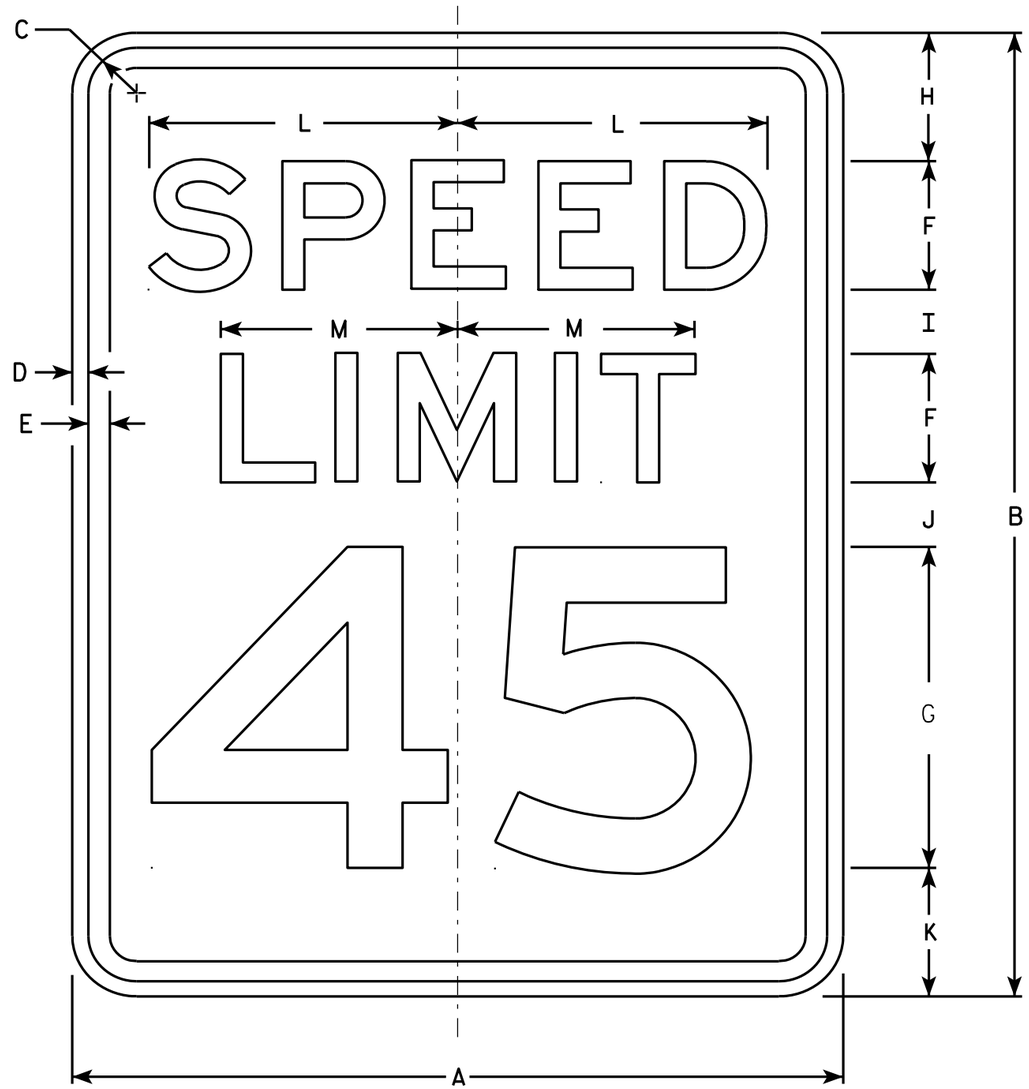
APPROVED Matthew R Rauch
for State Traffic Engineer

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

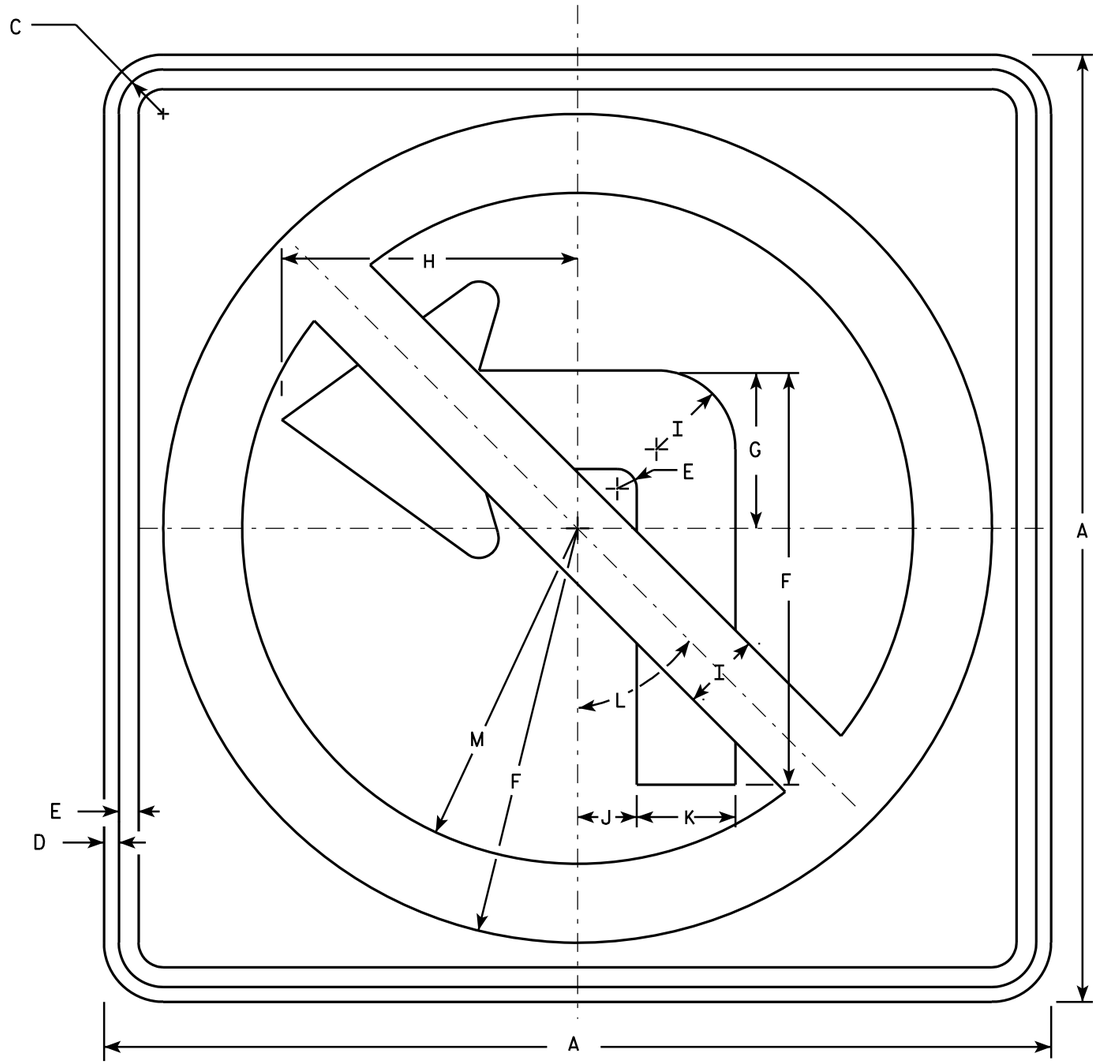
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

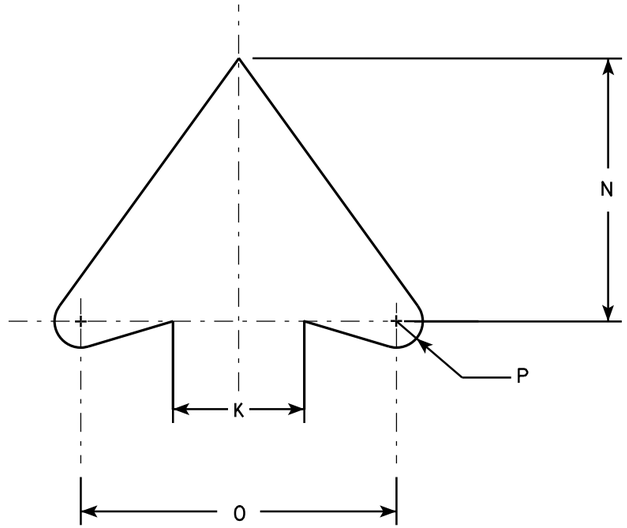
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 280	E



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

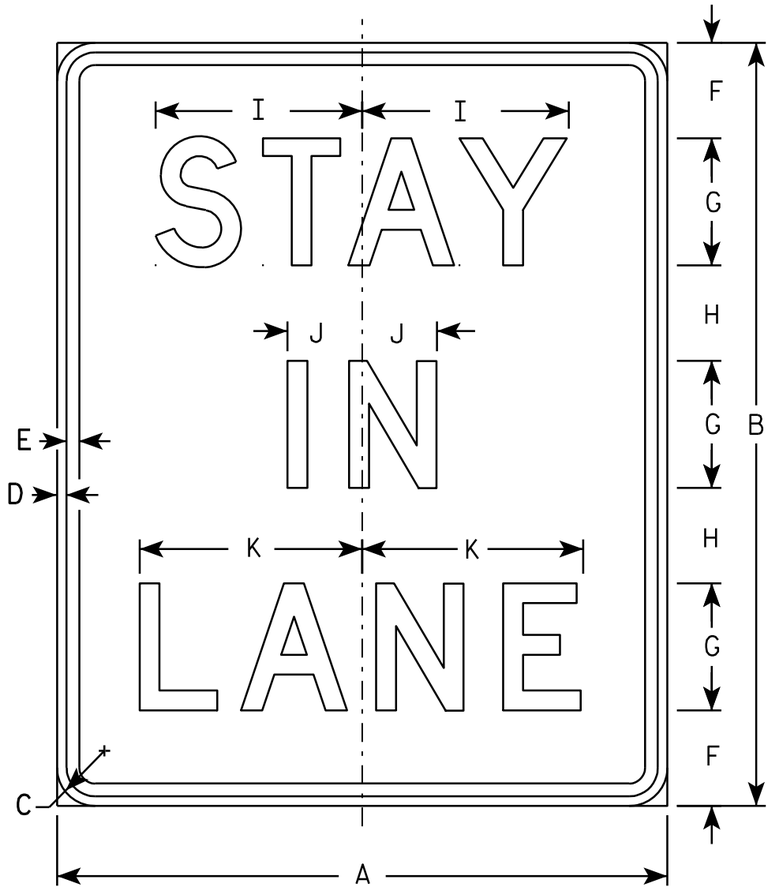
STANDARD SIGN
R3-2

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: 281	E



R4-9

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	3/8	3	4	3	6 1/2	2 3/8	7																3.0
2S	24	30	1 1/8	3/8	1/2	3 5/8	5	3 7/8	8 1/8	3	8 3/4																5.0
2M	24	30	1 1/8	3/8	1/2	3 5/8	5	3 7/8	8 1/8	3	8 3/4																5.0
3	36	48	1 3/8	1/2	5/8	8 1/4	7	5 1/4	11 3/8	4 1/8	12 1/4																12.0
4	36	48	1 3/8	1/2	5/8	8 1/4	7	5 1/4	11 3/8	4 1/8	12 1/4																12.0
5	48	60	2 1/4	3/4	1	7 1/2	10	7 1/2	16 1/4	5 7/8	17 1/2																20.0

STANDARD SIGN
R4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-9.2

PROJECT NO:

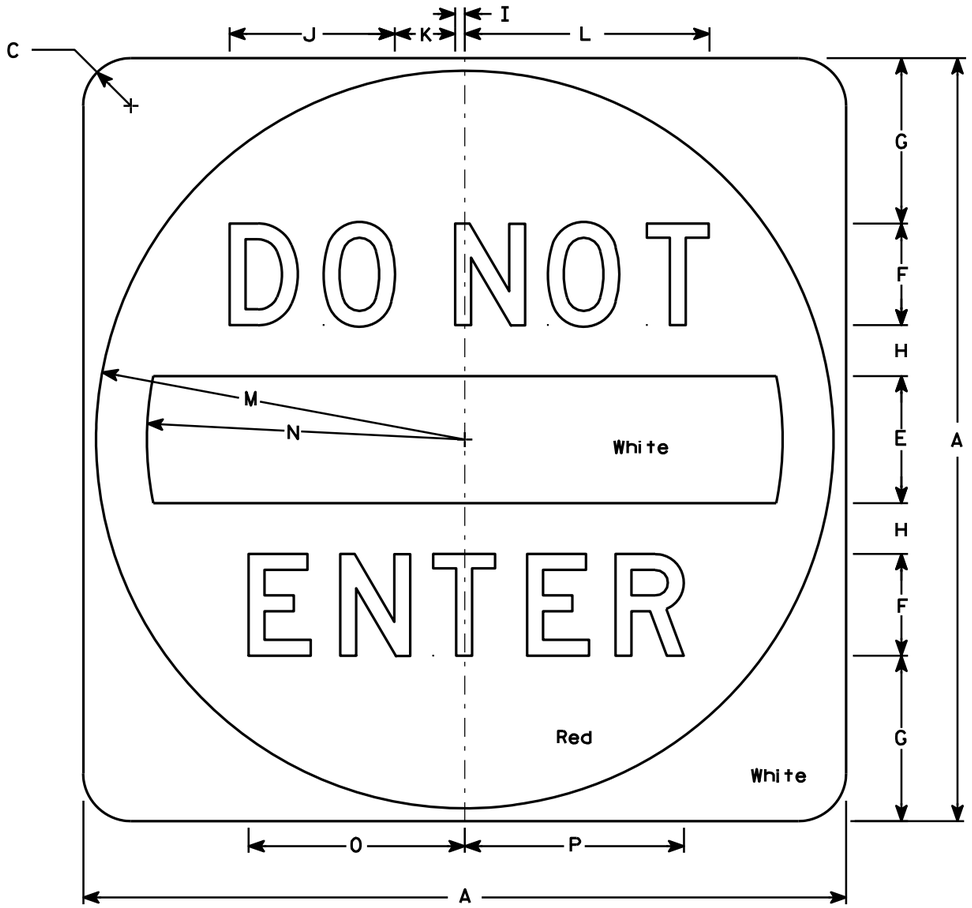
SHEET NO: 282 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R49.DGN PLOT DATE : 25-MAR-2011 14:17 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

7



R5-1

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		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											6.26
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

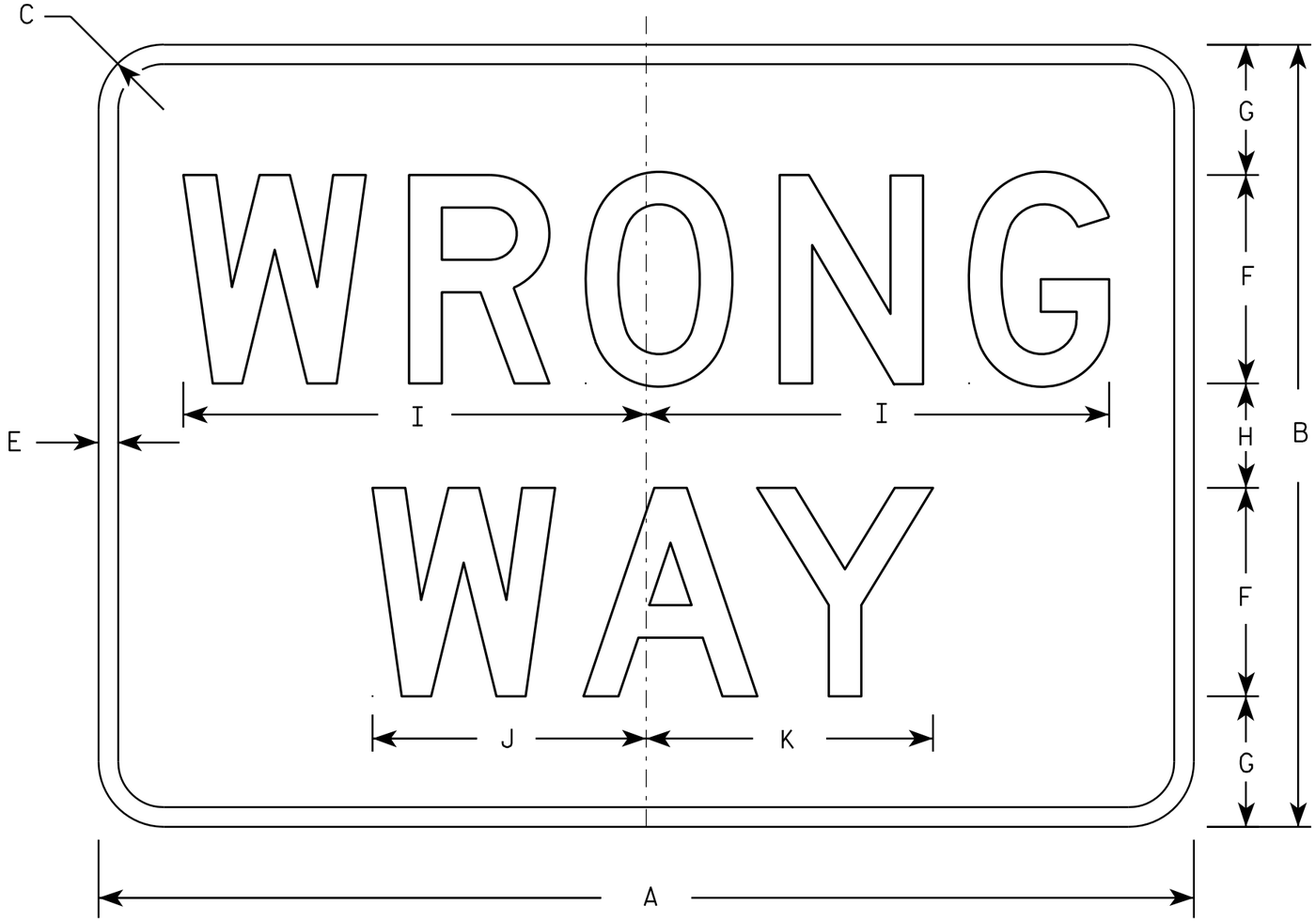
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 283 | 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

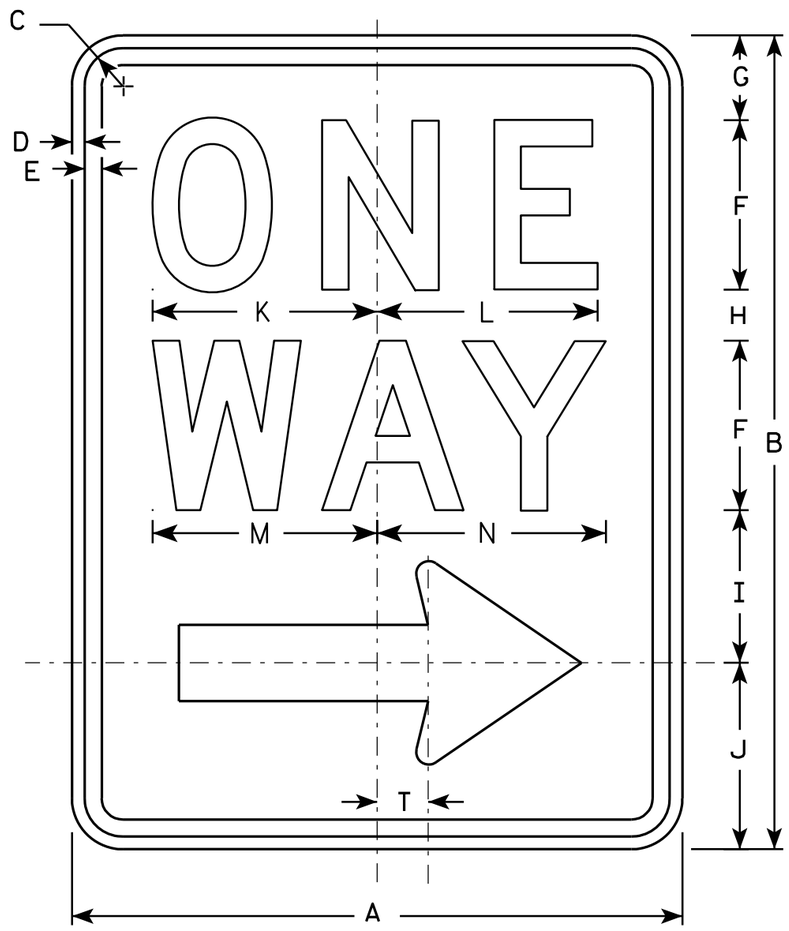
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

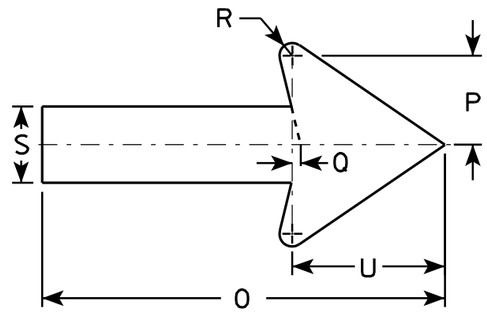
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 284 | E



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	Q	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																										

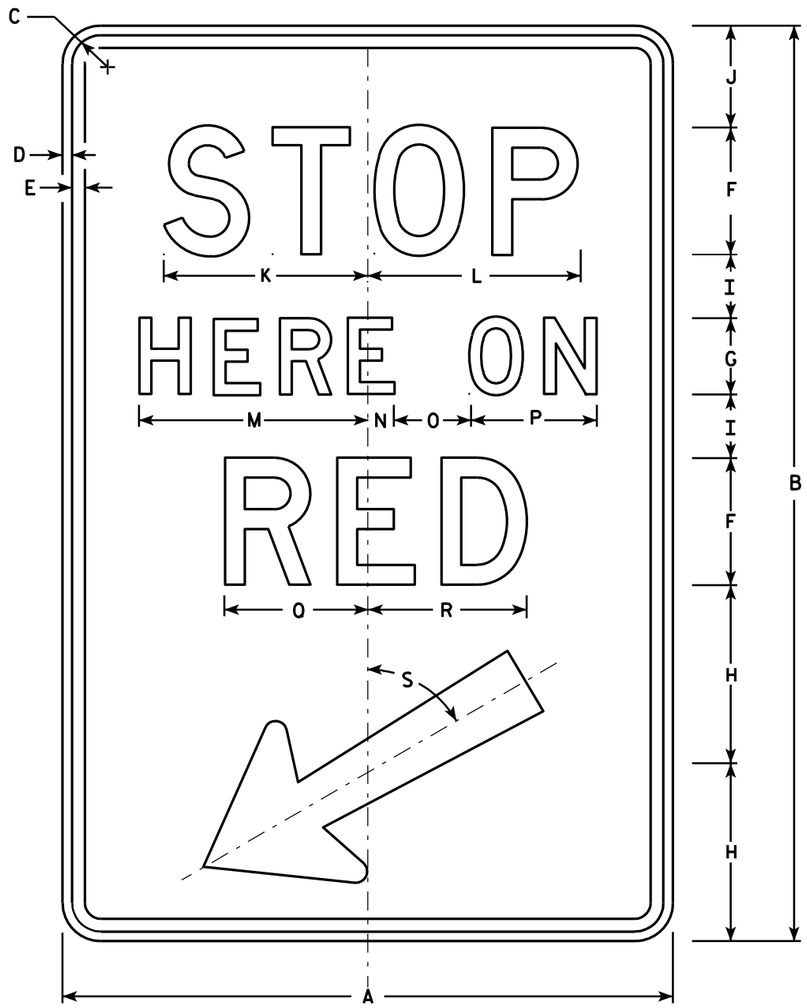
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

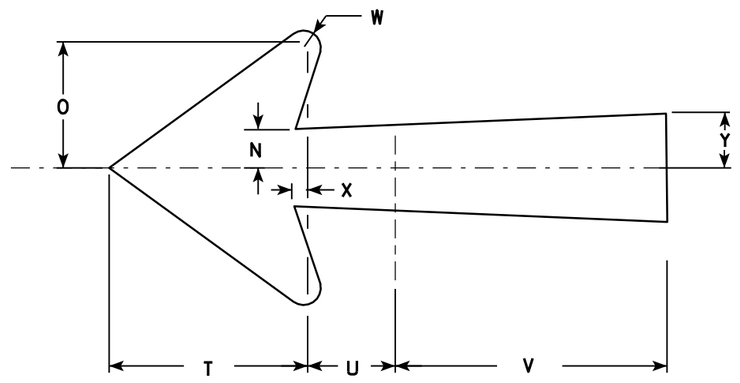
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 285	E



R10-6

NOTES

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



Arrow Detail

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	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 5/8	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
2M	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 5/8	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
3																											
4																											
5																											

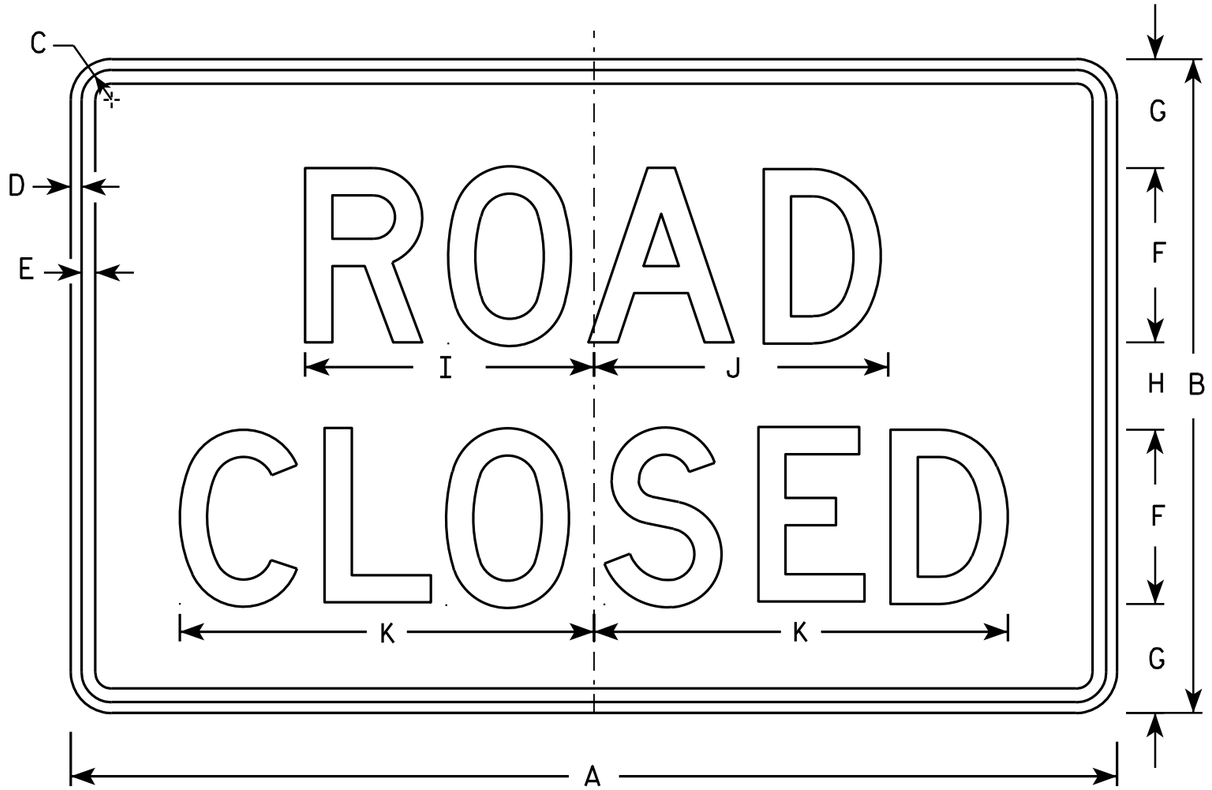
STANDARD SIGN
R10-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-6.6

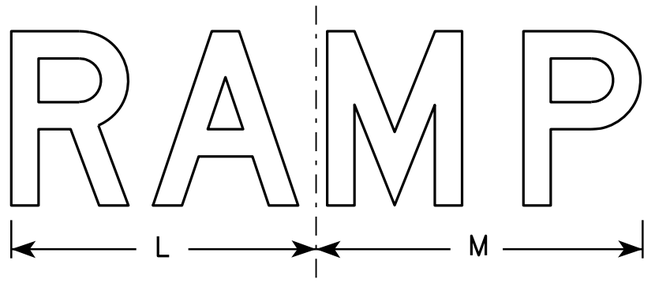
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 286	E



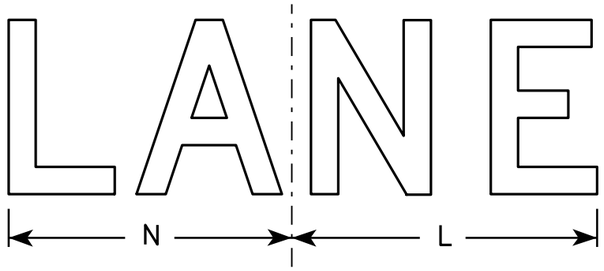
R11-2

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

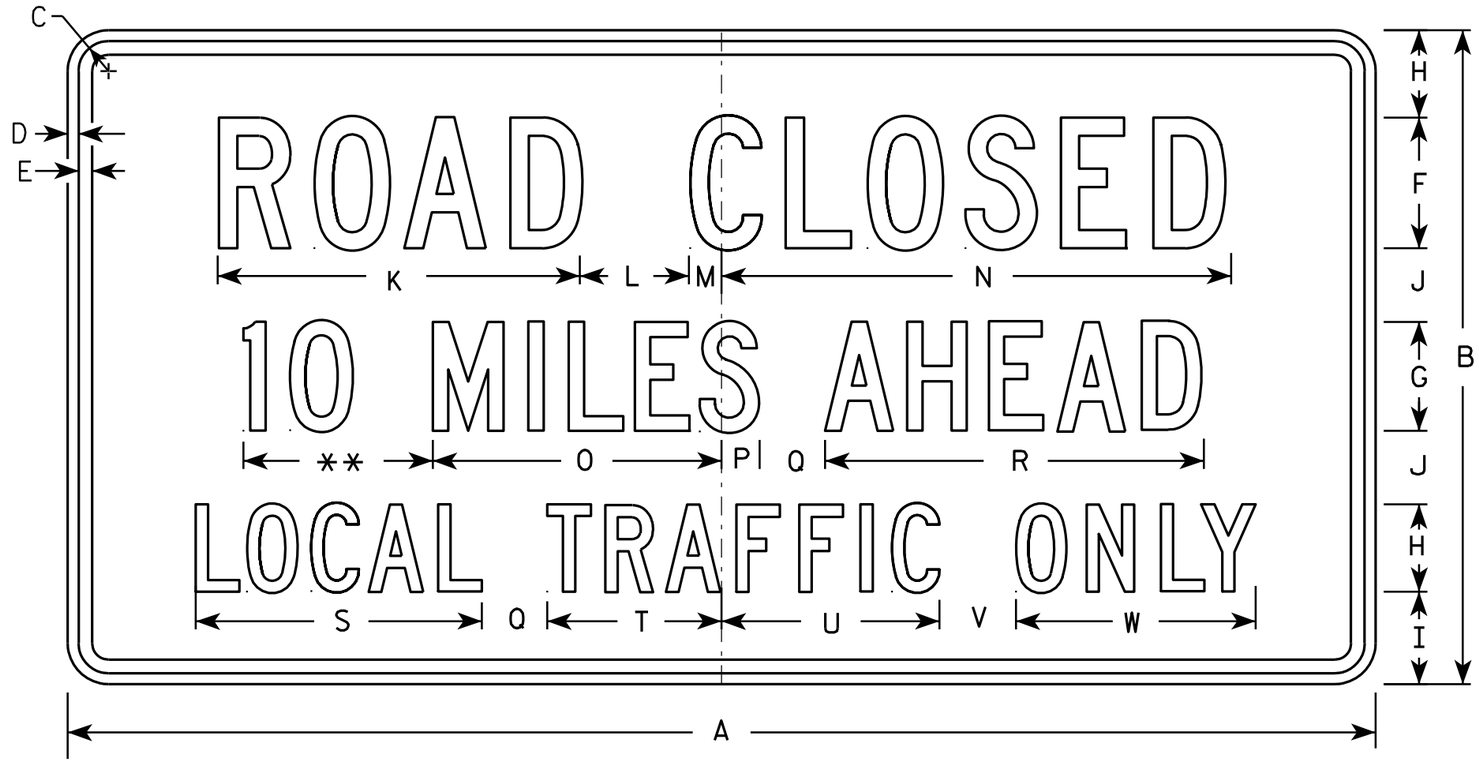
STANDARD SIGN
R11-2

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: 287 | E



R11-3

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 - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

** See Note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
3																											
4																											
5																											

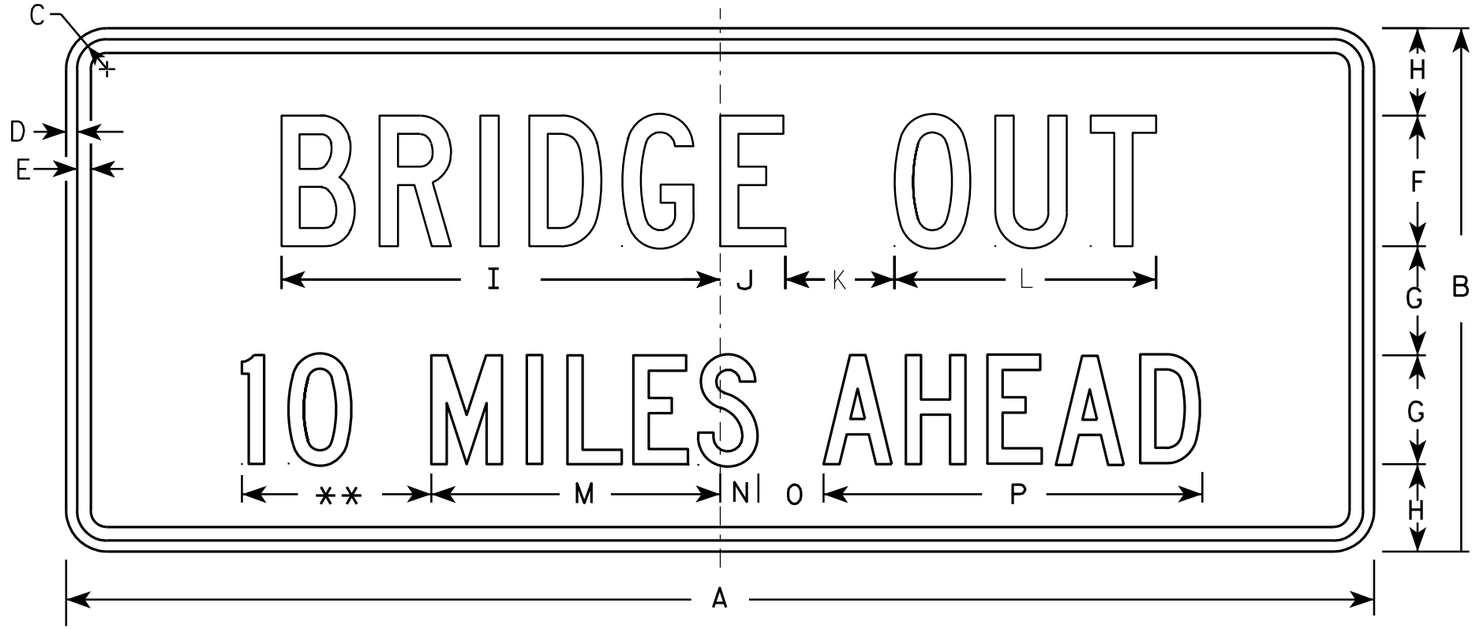
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-3.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 288	E



R11-3C

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 - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

** See Note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4											3.75
2S	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8											10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8											10.0
3																											
4																											
5																											

STANDARD SIGN
R11-3C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-3C.2

PROJECT NO:

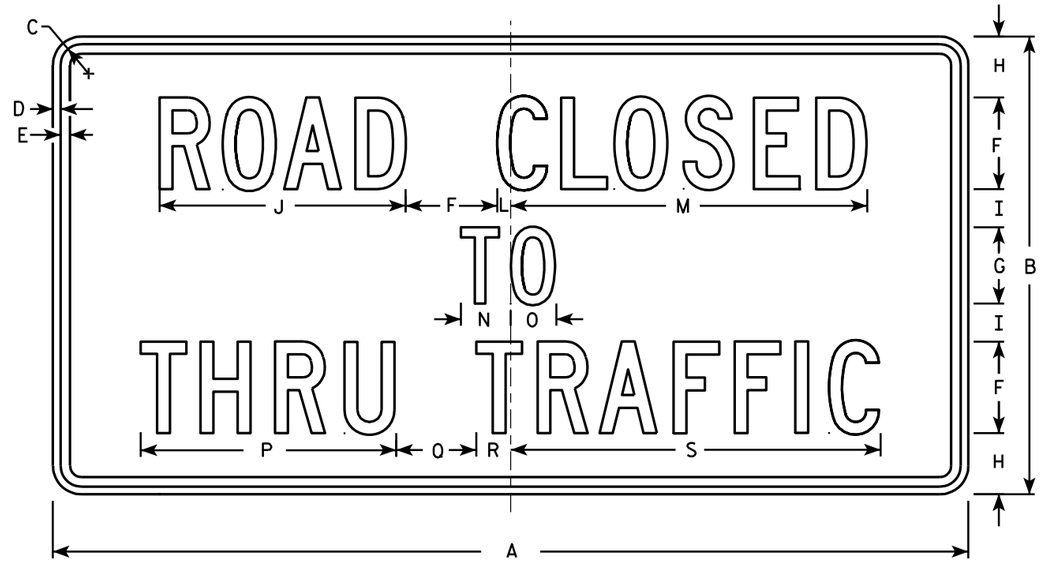
SHEET NO: 289 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R113C.DGN PLOT DATE : 01-APR-2011 14:15 PLOT BY : mscj9h

WISDOT/CADDS SHEET 42

7

7



R11-4

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 - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

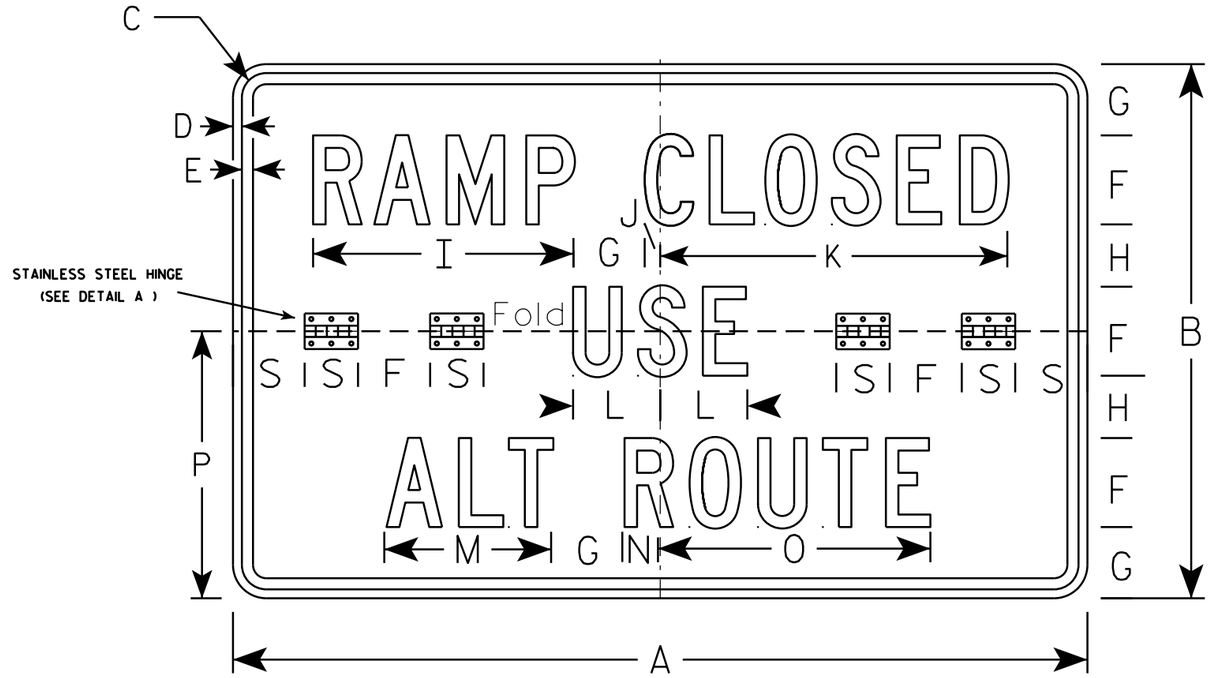
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

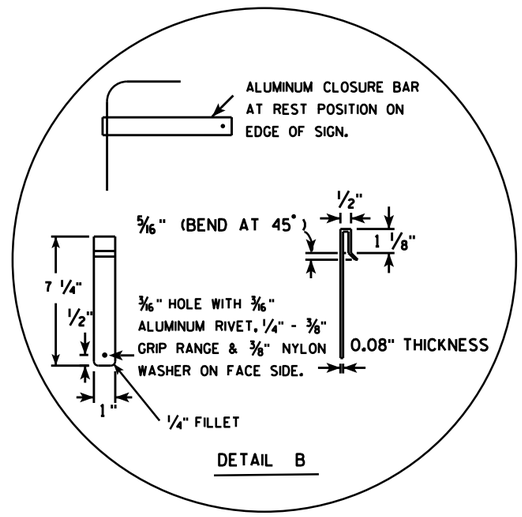
DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 290 | E



R11-54F

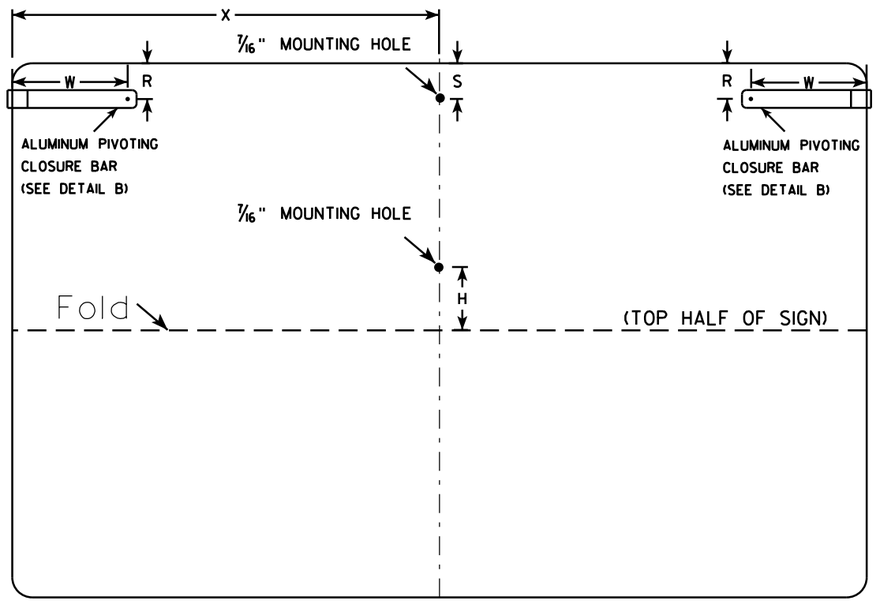
DETAIL A



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

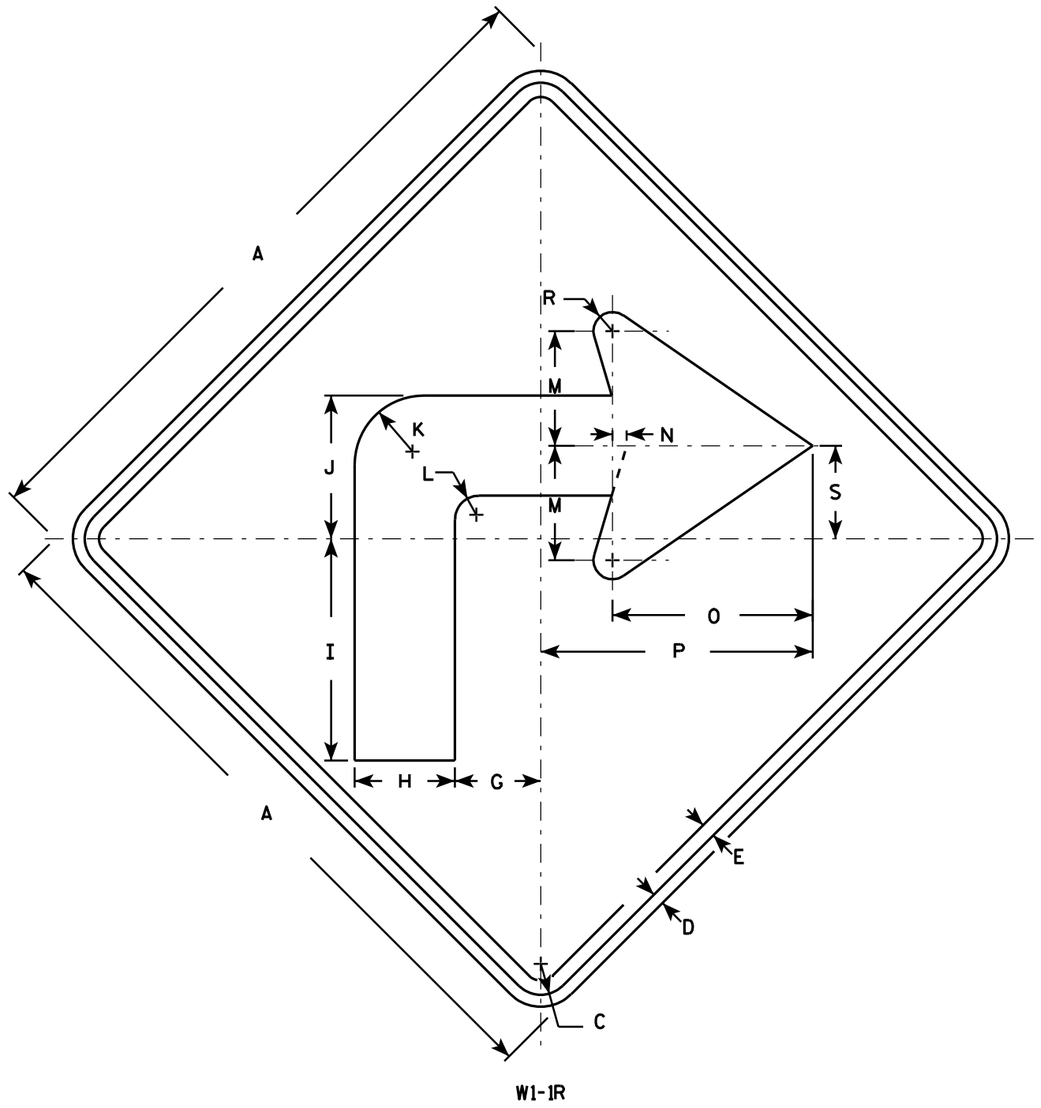
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/28/14 PLATE NO. R11-54F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R1154F.DGN PLOT DATE : 28-MAY-2014 14:15 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 8.511110:1.000000
WISDOT/CADDS SHEET 42



W1-1R

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. 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. W1-1L is the same as W1-1R 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	24		1 1/8	3/8	1/2		3	3 1/2	7 3/4	5	2 1/2	7/8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
2S	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
2M	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
3	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0

STANDARD SIGN
W1-1

WISCONSIN DEPT OF TRANSPORTATION

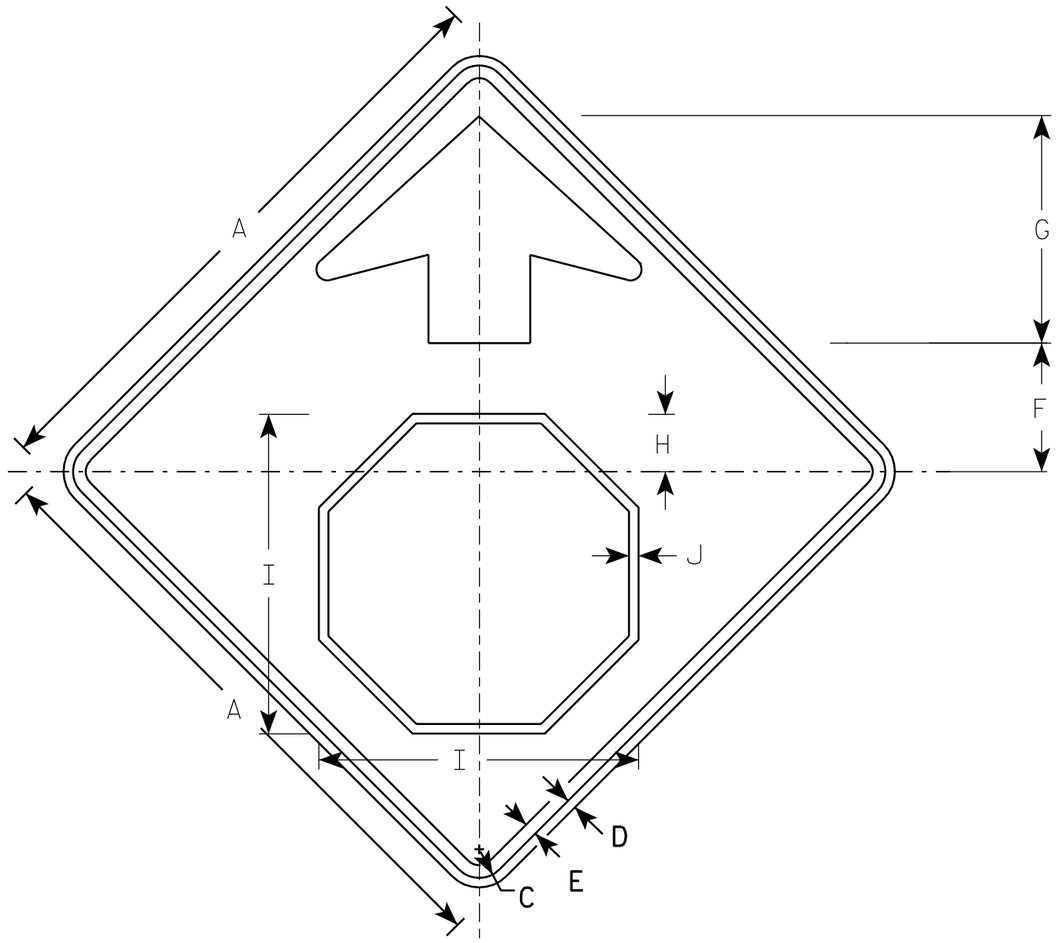
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-1.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 292 | E

7

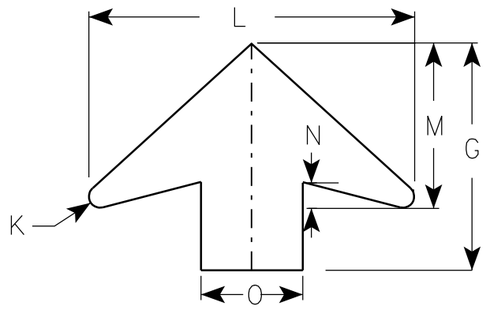
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W11.DGN PLOT DATE : 15-MAY-2012 13:47 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.939035:1.000000
WISDOT/CADDS SHEET 42



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED 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	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

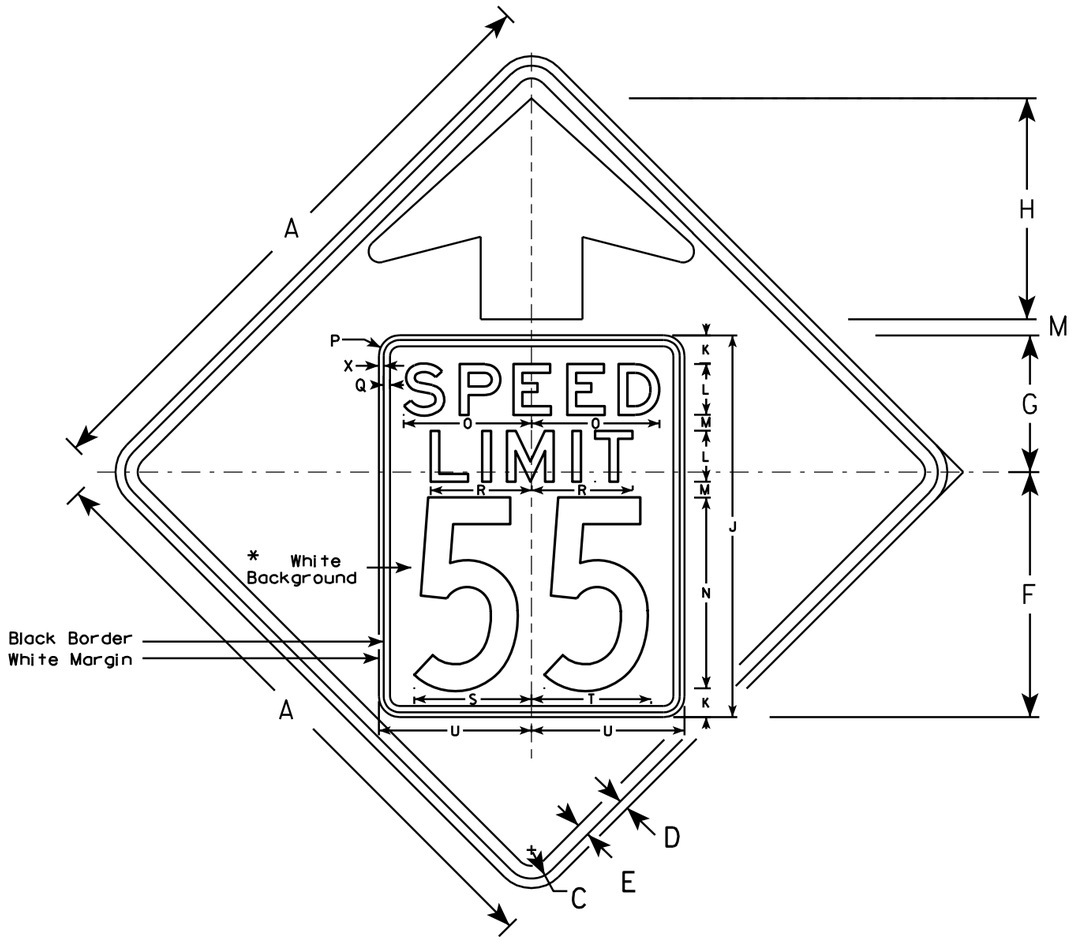
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 293 E

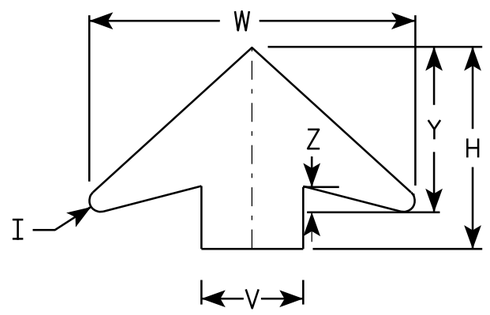


W3-5

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

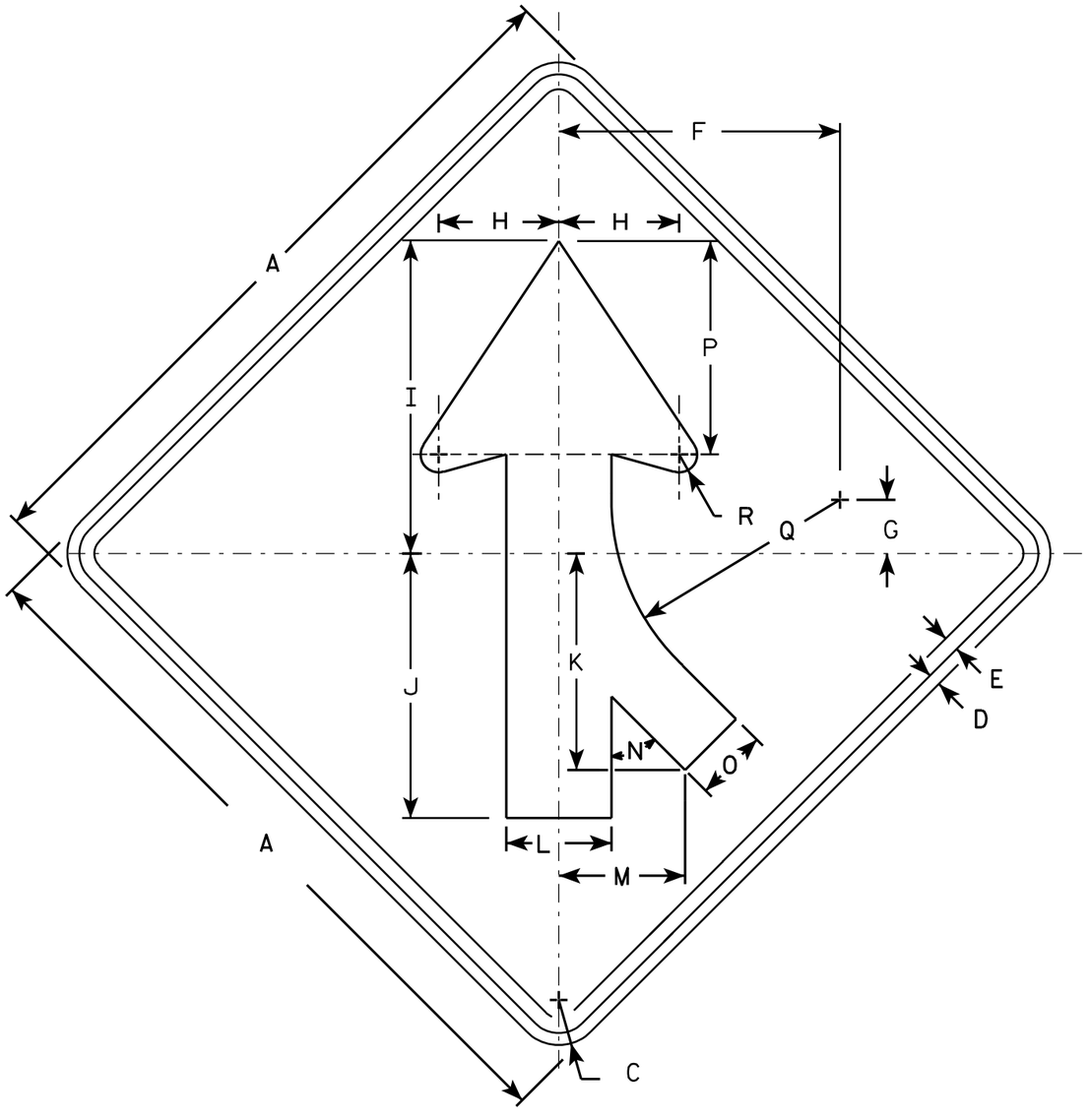
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 294 E



W4-1 R

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. W4-1L is the same as W4-1R 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	30		1 3/8	1/2	5/8	11 5/8	2 1/2	5	13	11	9	4 3/8	5 1/4	45°	3	8 7/8	9 1/2	3/4									6.25
2S	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2M	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
3	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

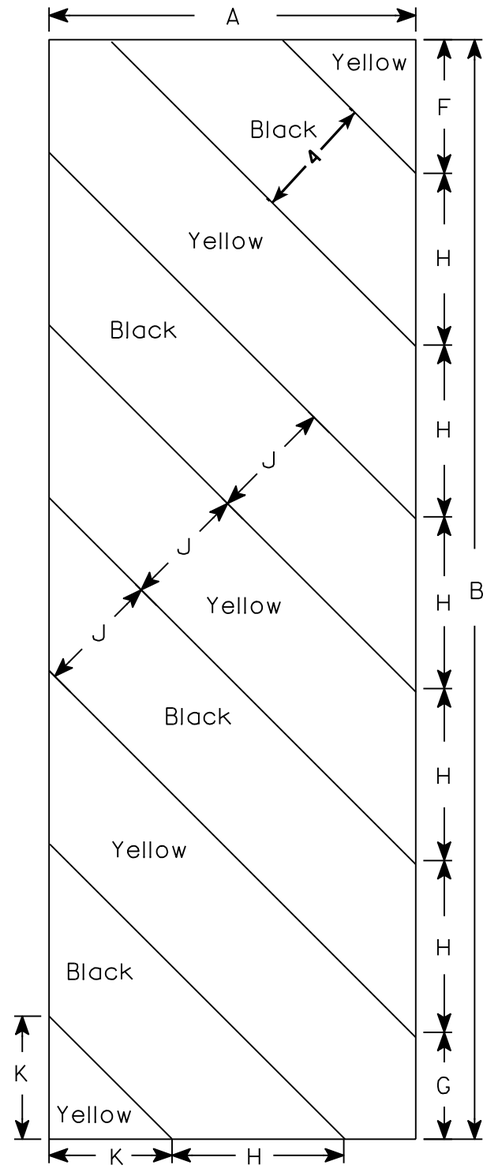
STANDARD SIGN
W4-1

WISCONSIN DEPT OF TRANSPORTATION

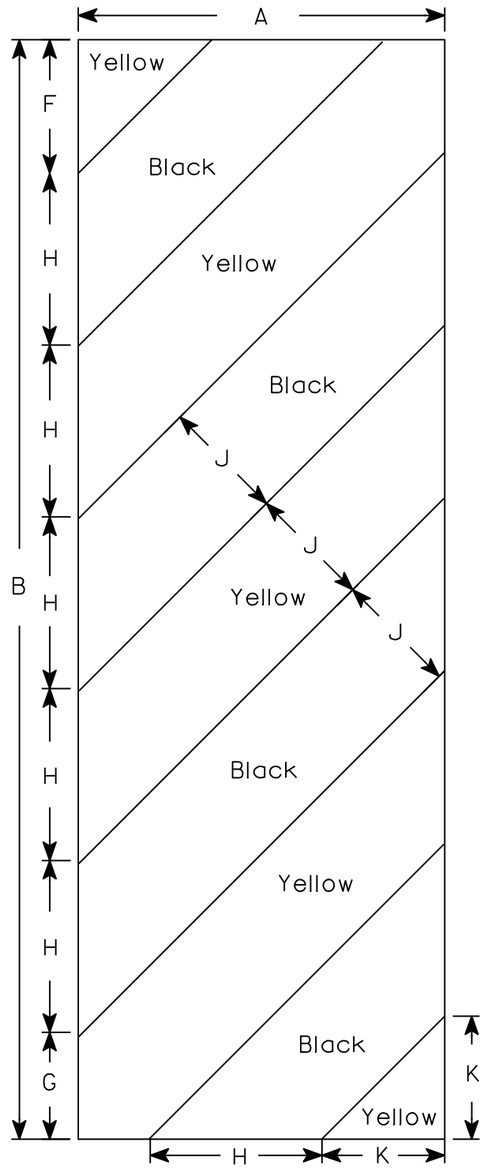
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 295 | E



W5-52L



W5-52R

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. Alternate colors of stripes as shown.

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	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

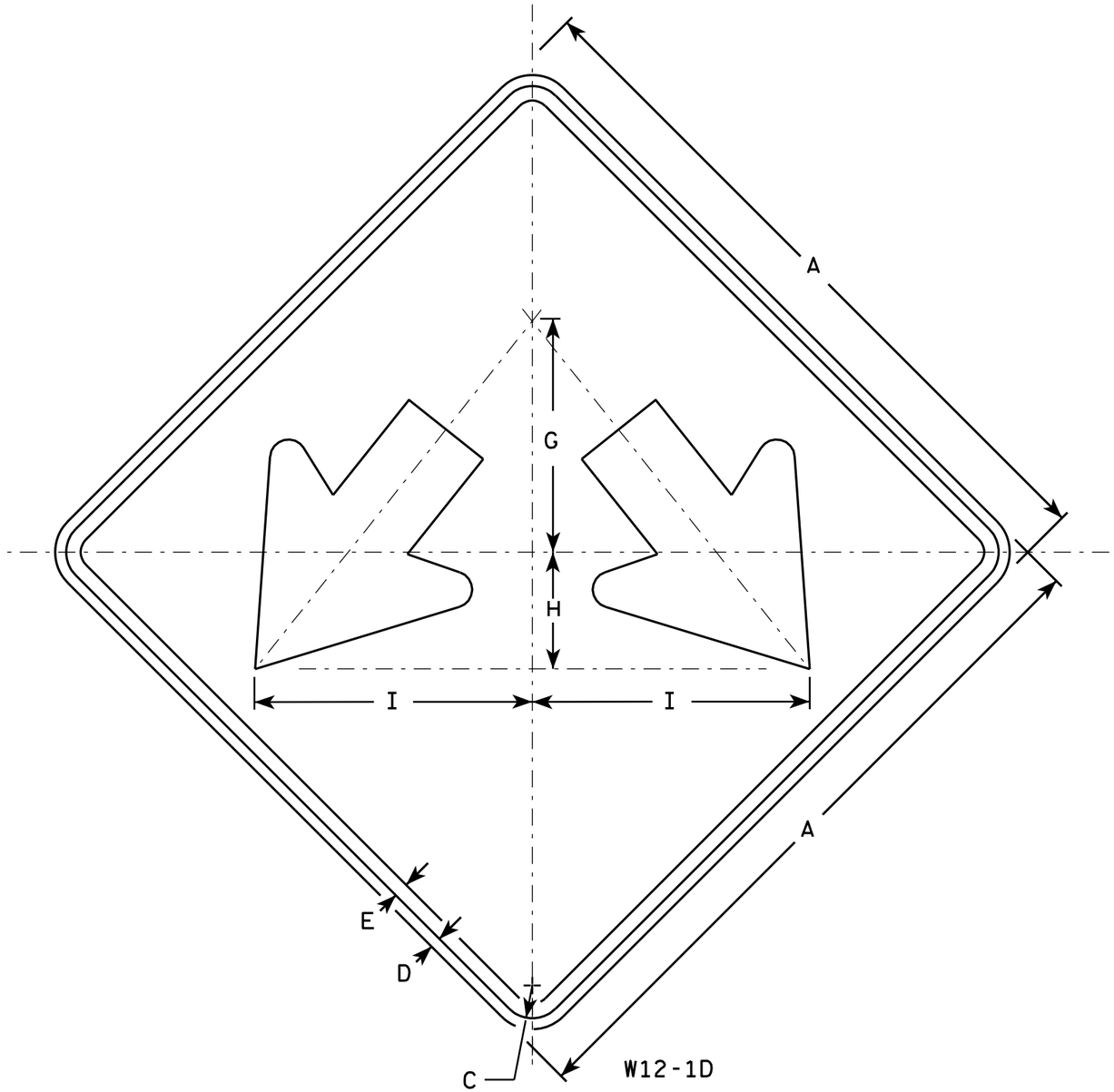
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

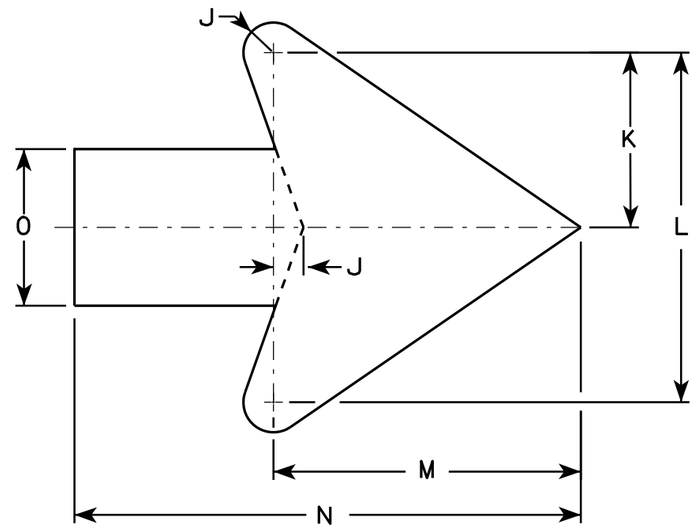
DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 296 | 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.



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		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 297	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W121D.DGN PLOT DATE : 13-MAR-2013 13:26 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 4.713802:1.000000

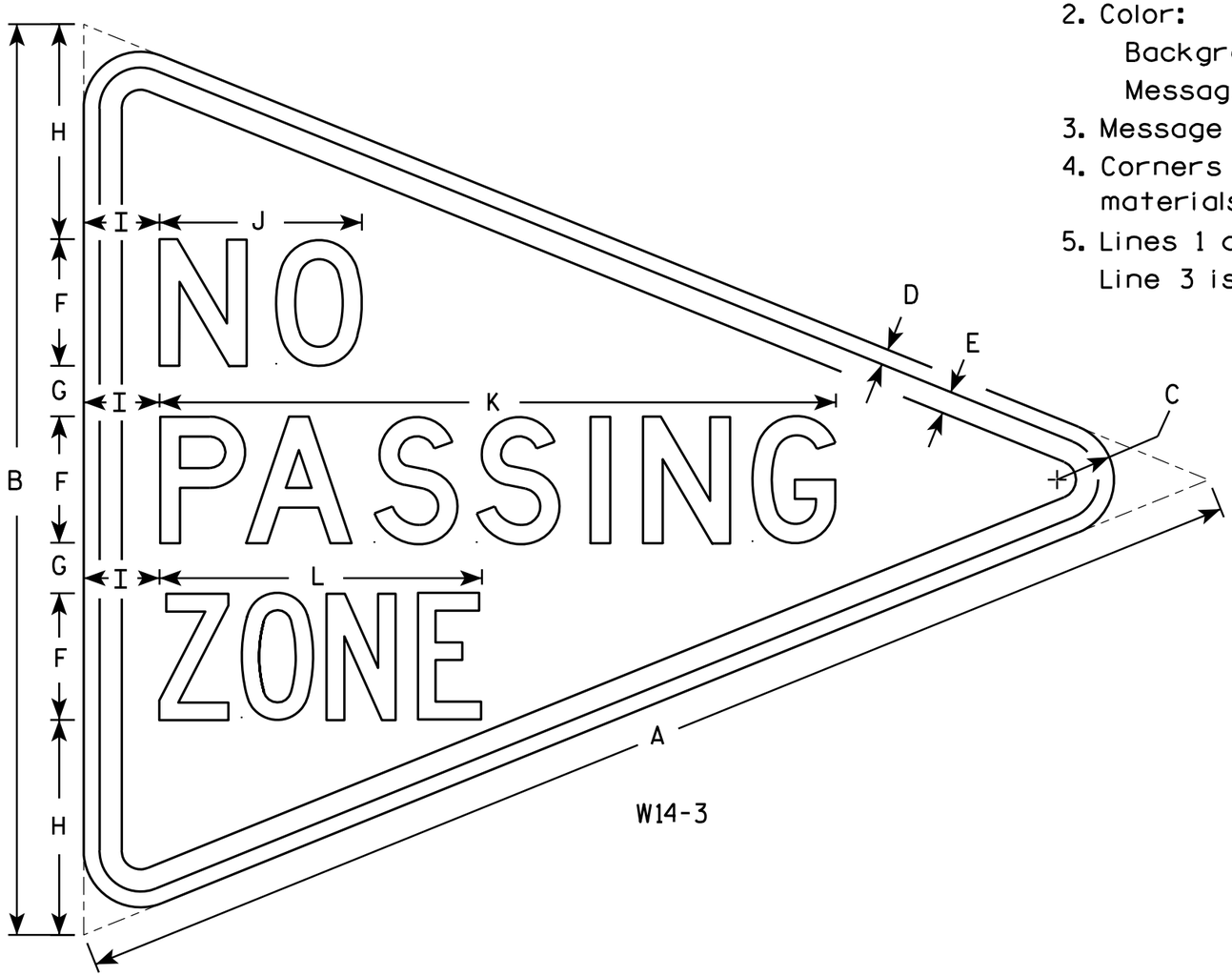
WISDOT/CADDS SHEET 42

7

7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See note 5
4. Corners and borders shall be rounded on all base materials for this sign.
5. Lines 1 and 2 are Series D.
   Line 3 is series C.



W14-3

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	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

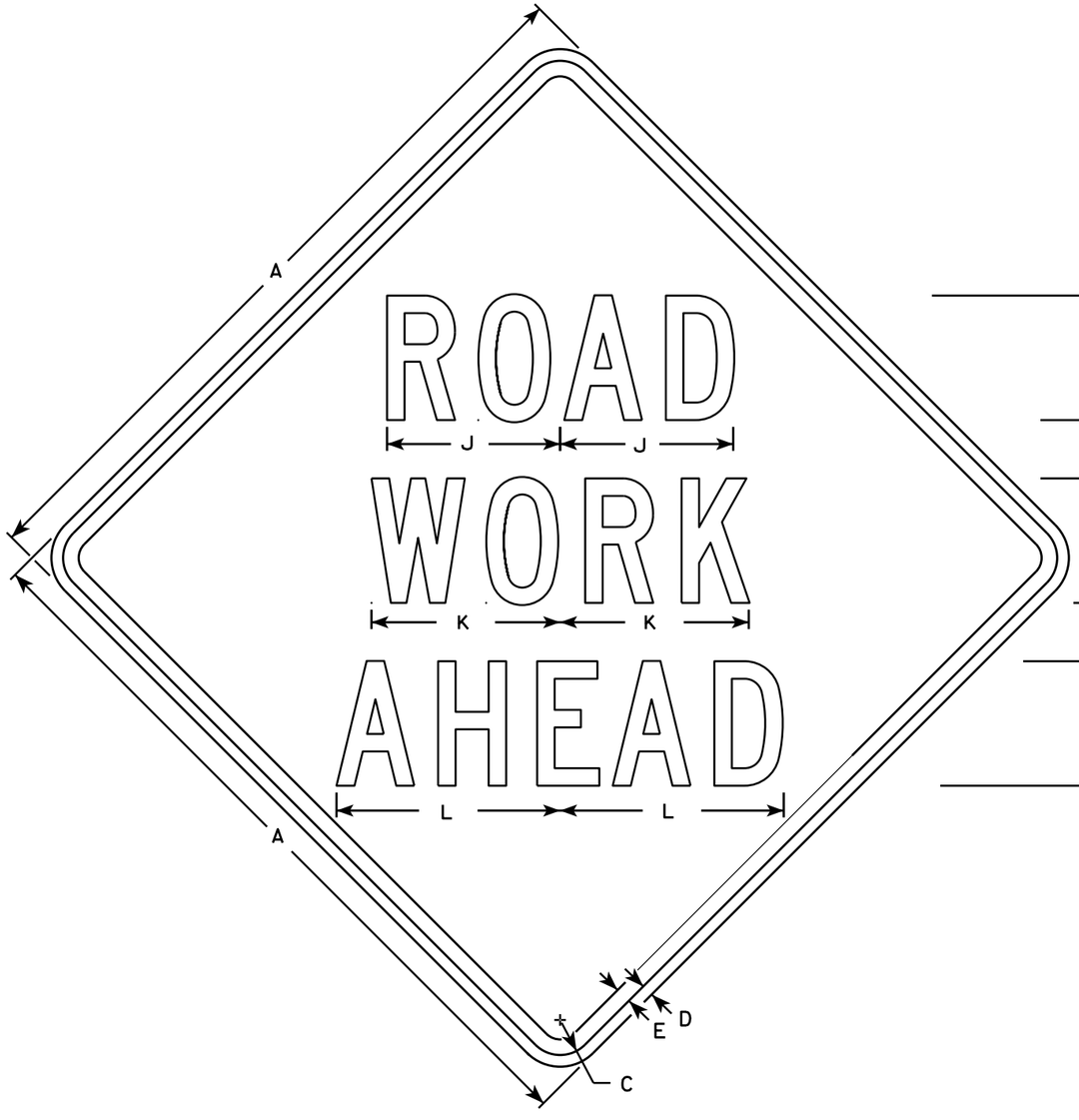
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

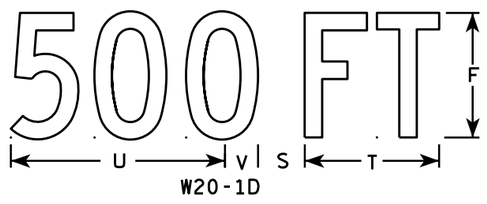
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

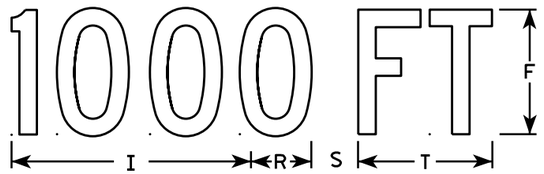
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 298	E



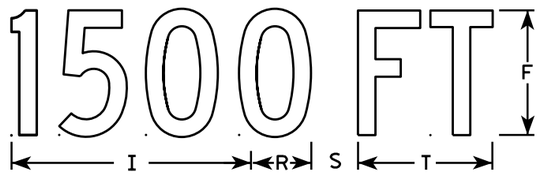
W20-1A



W20-1D



W20-1C



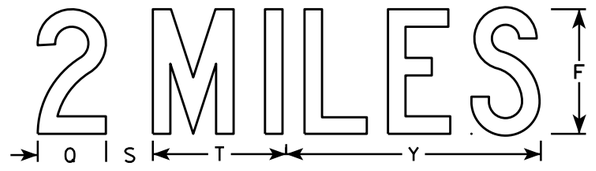
W20-1B



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

State Traffic Engineer

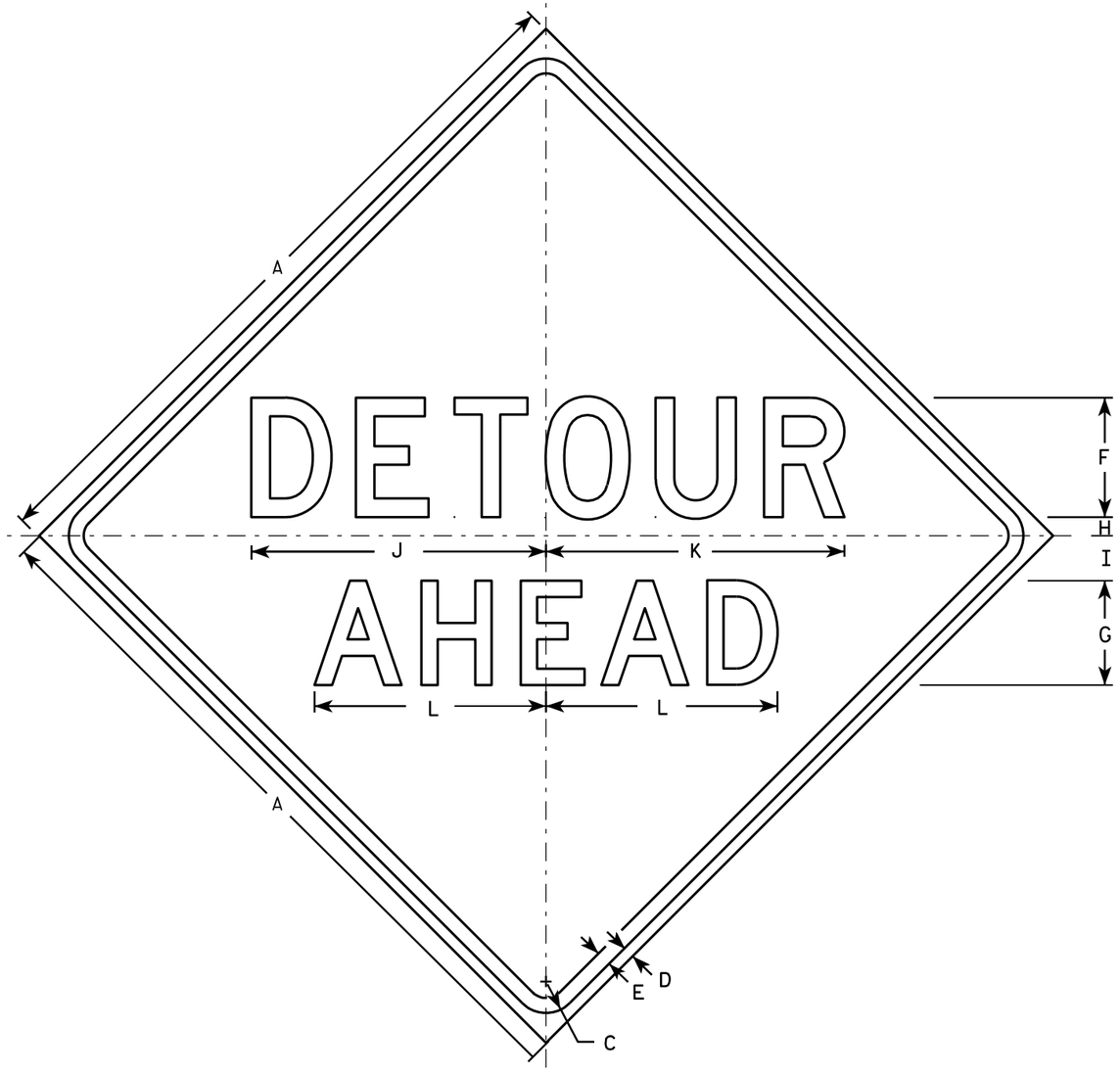
DATE 5/07/15 PLATE NO. W20-1.10

PROJECT NO:

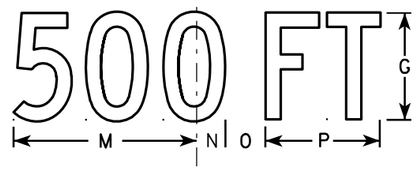
SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W201.dgn PLOT DATE : 27-MAY-2015 15:58 PLOT BY : mscsja

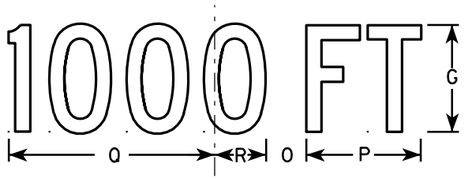
WISDOT/CADDS SHEET 42



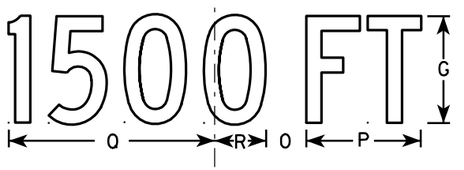
W20-2A



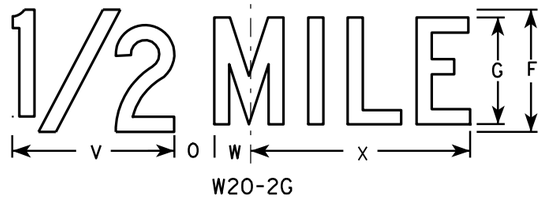
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

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. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

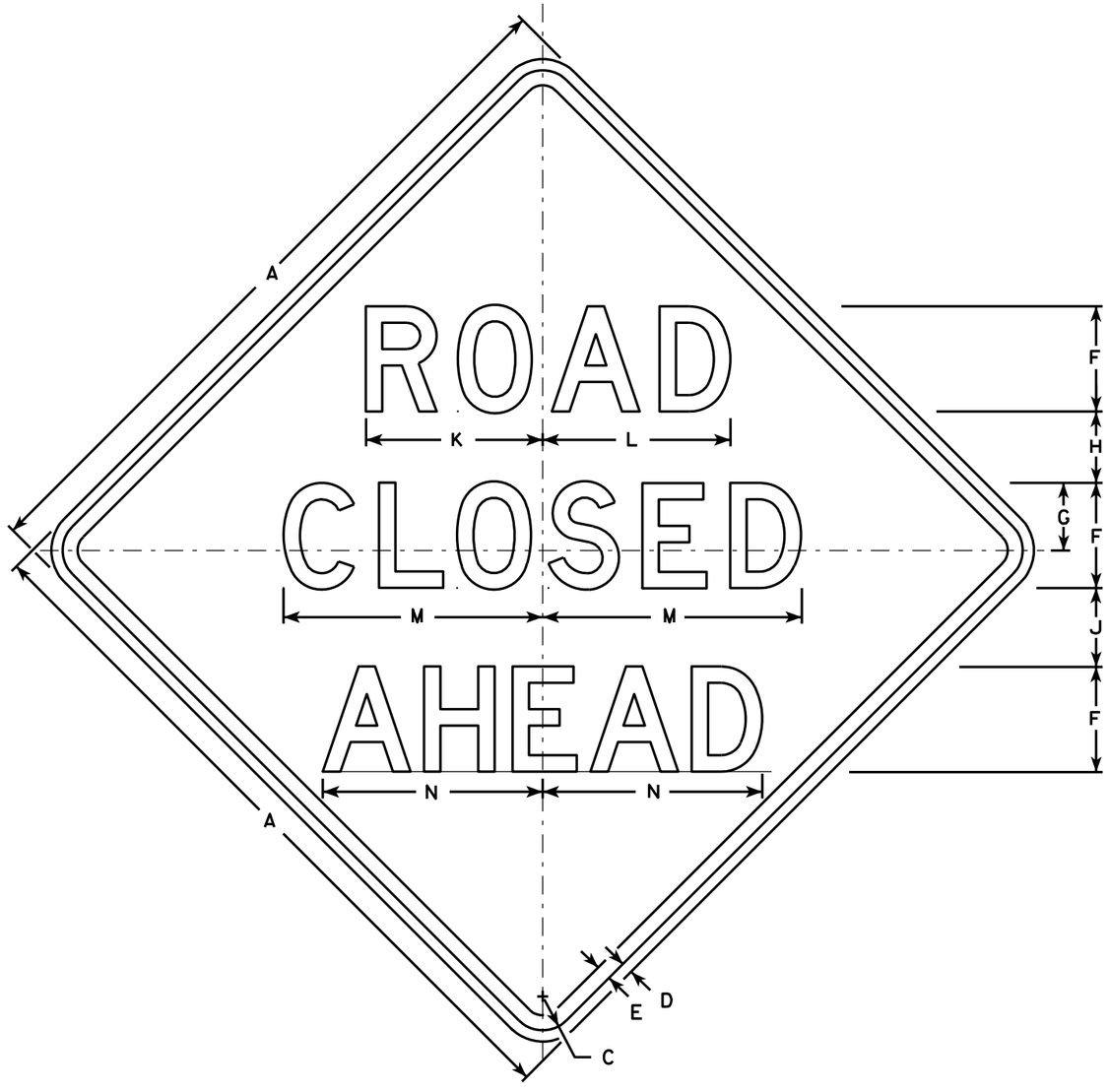
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

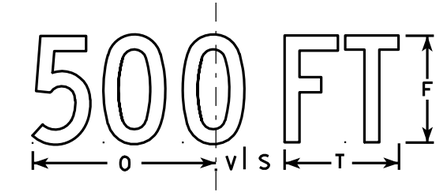
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 300 | E

7

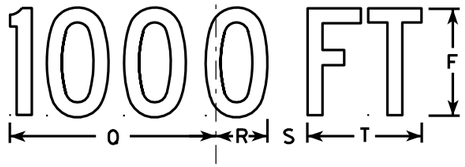
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W202.DGN PLOT DATE : 18-MAR-2011 10:00 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



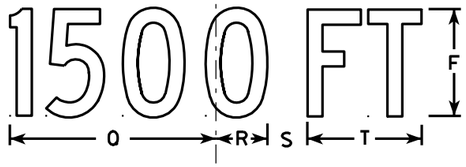
W20-3A



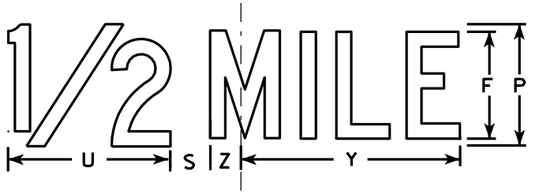
W20-3D



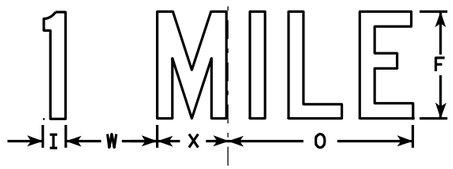
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - 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	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

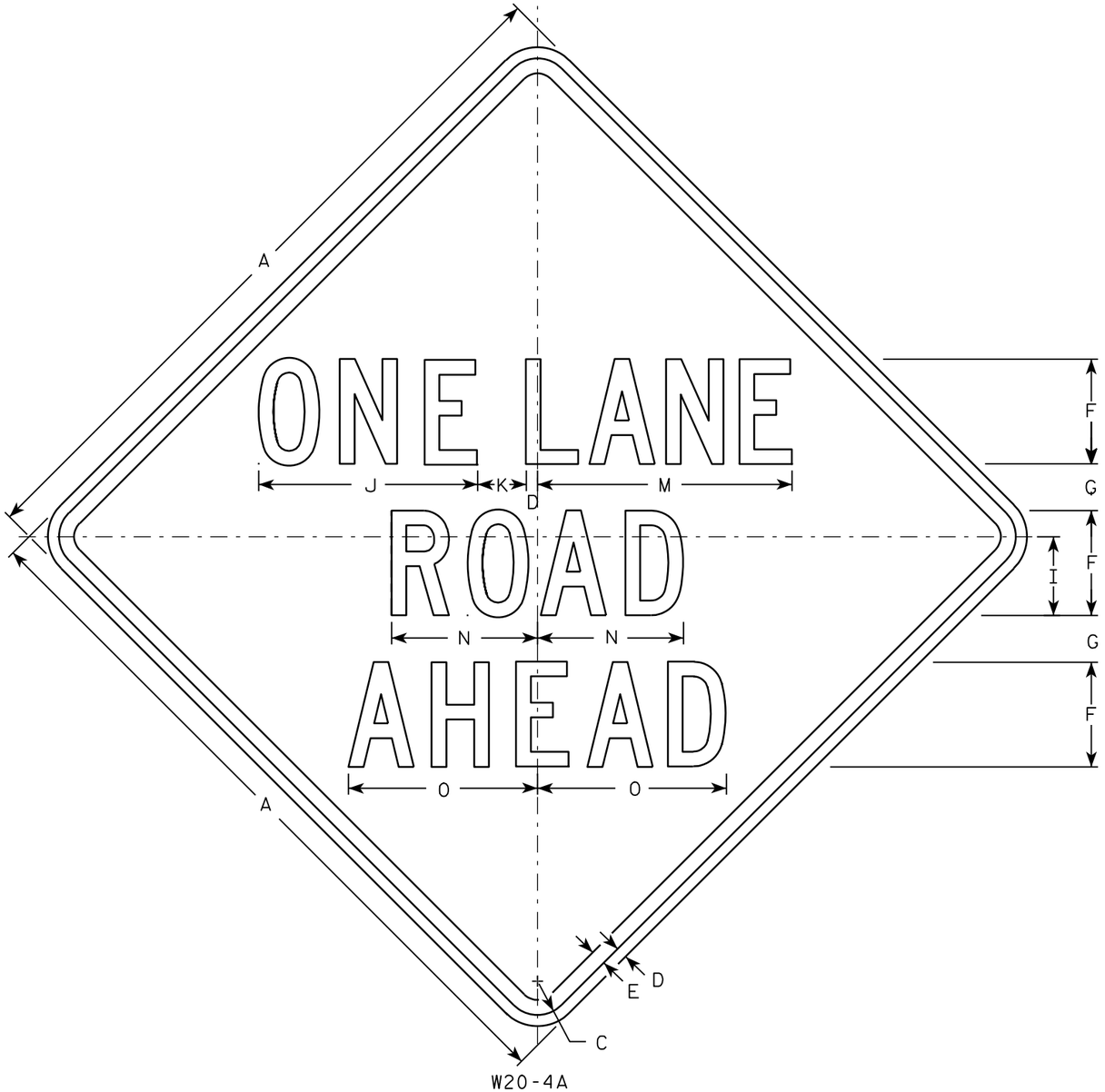
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 301 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000

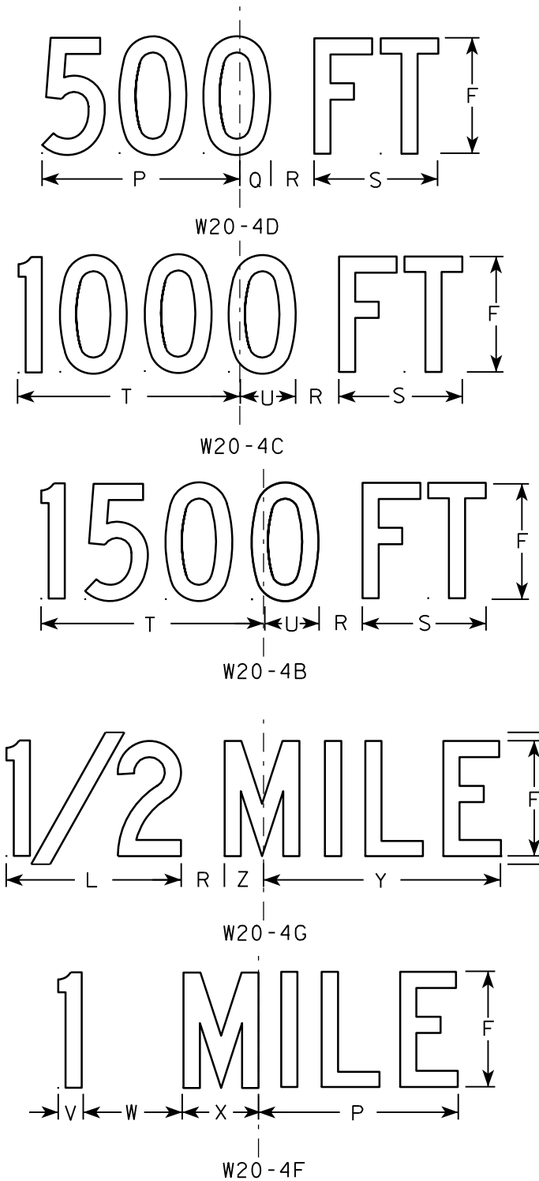
WISDOT/CADDS SHEET 42

7

7



W20-4A



W20-4D

W20-4C

W20-4B

W20-4G

W20-4F

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	36		1 5/8	5/8	3/4	5	2 3/8	6	3 3/4	10 3/8	2 3/8	8	13 1/2	7	8 7/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-4A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-4.9

PROJECT NO:

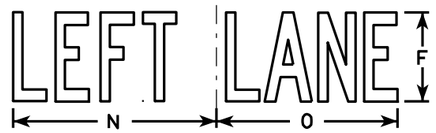
SHEET NO: 302 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W204.DGN PLOT DATE : 18-MAR-2011 12:11 PLOT BY : mscj9h

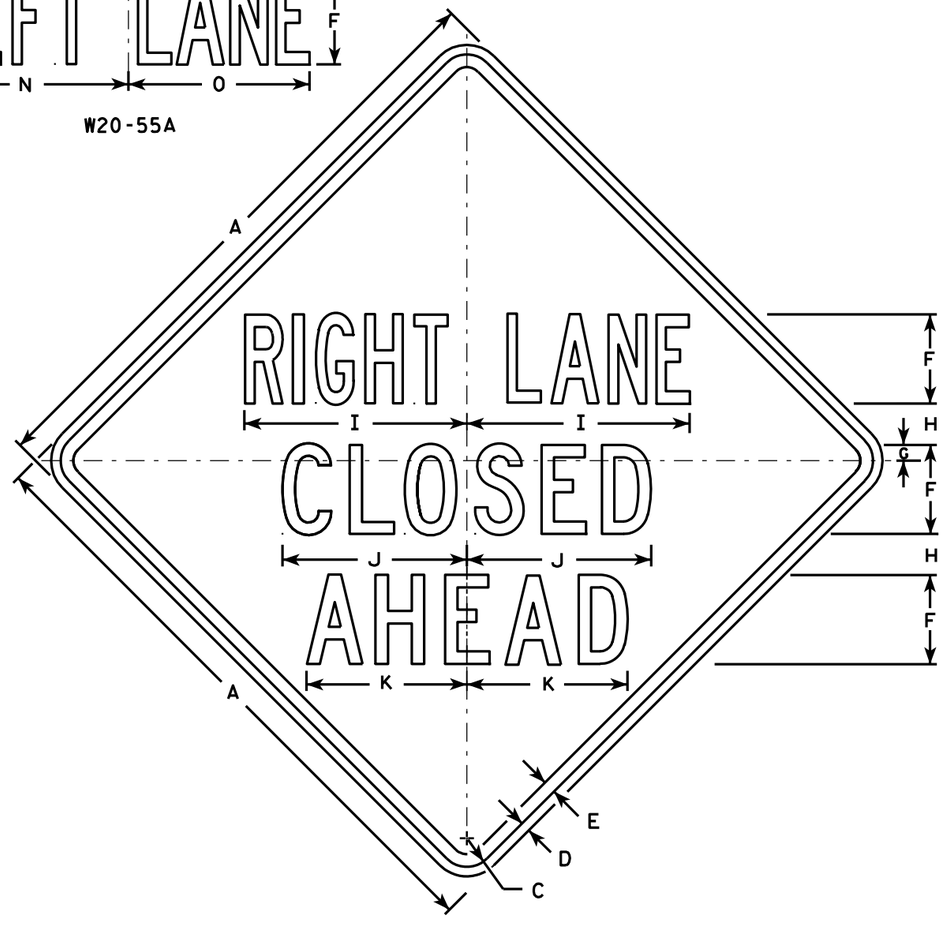
WISDOT/CADDS SHEET 42



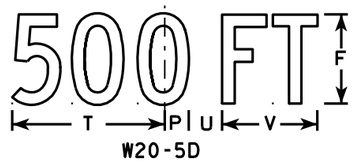
W20-56A



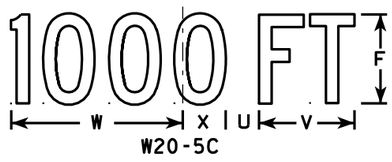
W20-55A



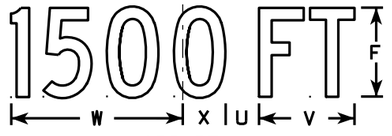
W20-5A



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

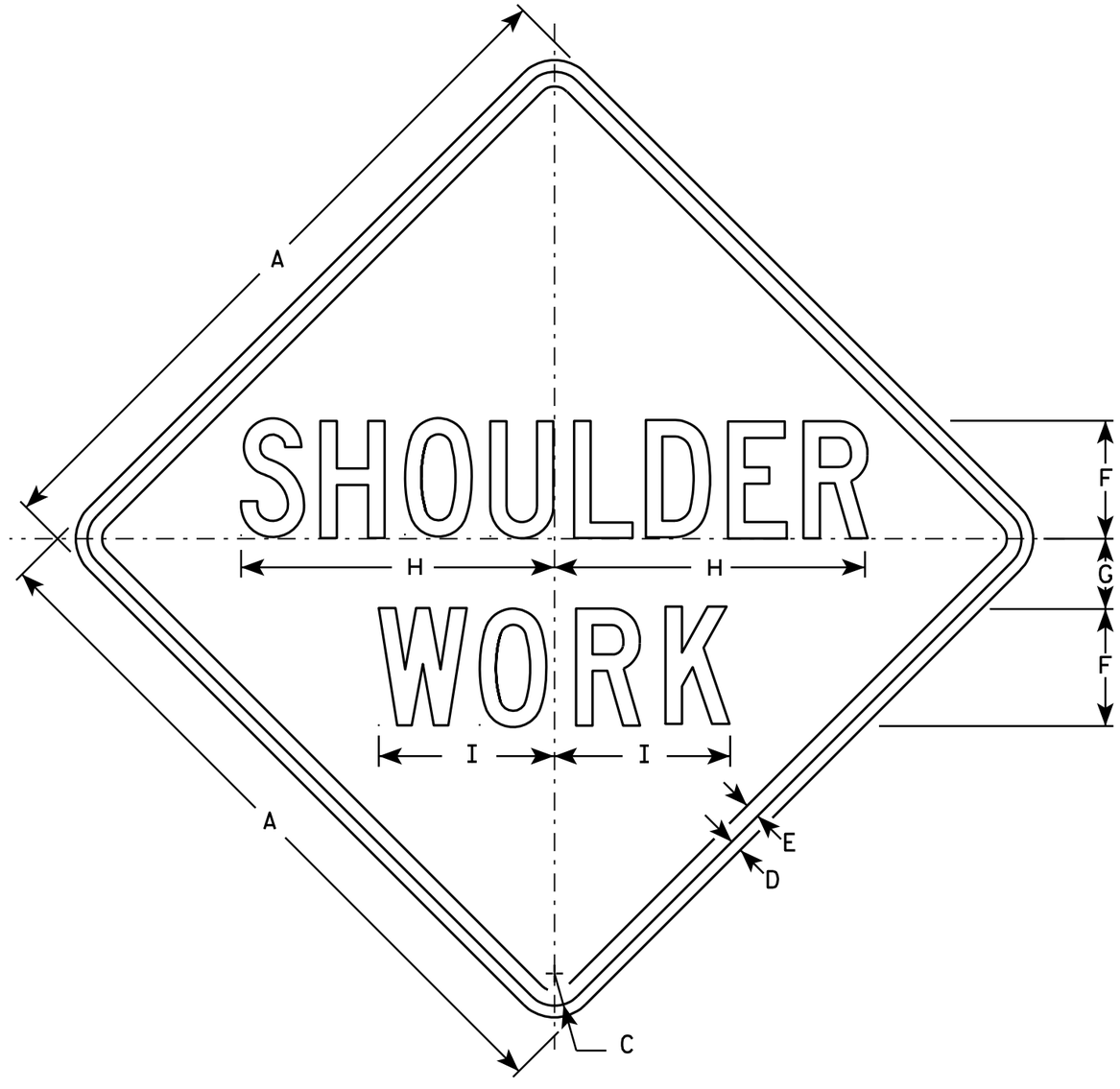
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 303 | 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



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

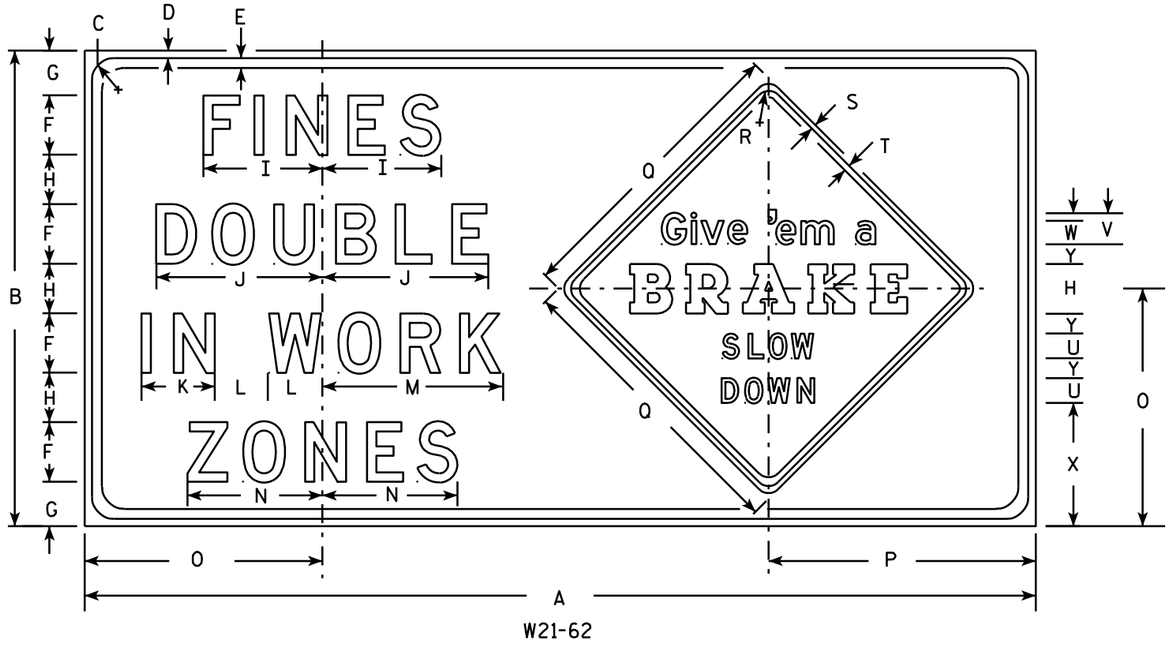
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-5.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 304 | E

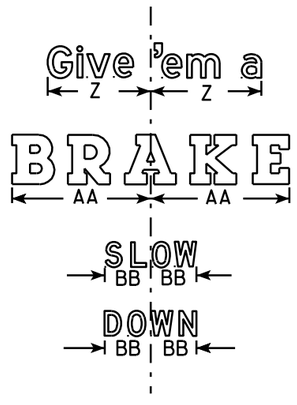
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W215.DGN PLOT DATE : 21-MAR-2011 08:01 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.207338:1.000000



W21-62

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 - (See Note 5)
   Message - Black
3. Message Series -
   Fines Double Message - All lines are Series D
   Give 'em a Brake -
   Line one is Series E, line two is a Special Graphic Series and lines three and four are Series D.
4. The base material shall be plywood. Corners may be square or rounded, but borders shall be rounded as shown. The base material for Give 'em a Brake sign can be a seperate sheet of aluminum with the corners and borders rounded as shown. This seperate panel shall then be attached to the plywood with aluminum or stainless steel sheet metal screws.
5. Background for the Give 'em a Brake sign shall be Type F reflective orange.





W21-62P

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	AA	BB	CC	DD	Area sq. ft.
1																															
2S																															
2M																															
3	96	48	2 1/4	3/4	1	6	4 1/2	5	12	16 3/4	7 3/8	5 1/2	18 1/4	13 5/8	24	27	30	1 3/8	1/2	5/8	2 1/2	3 1/8	2 3/8	12 1/2	2	10 3/4	14	4 5/8	34 1/2	4	32.0
4																															
5																															

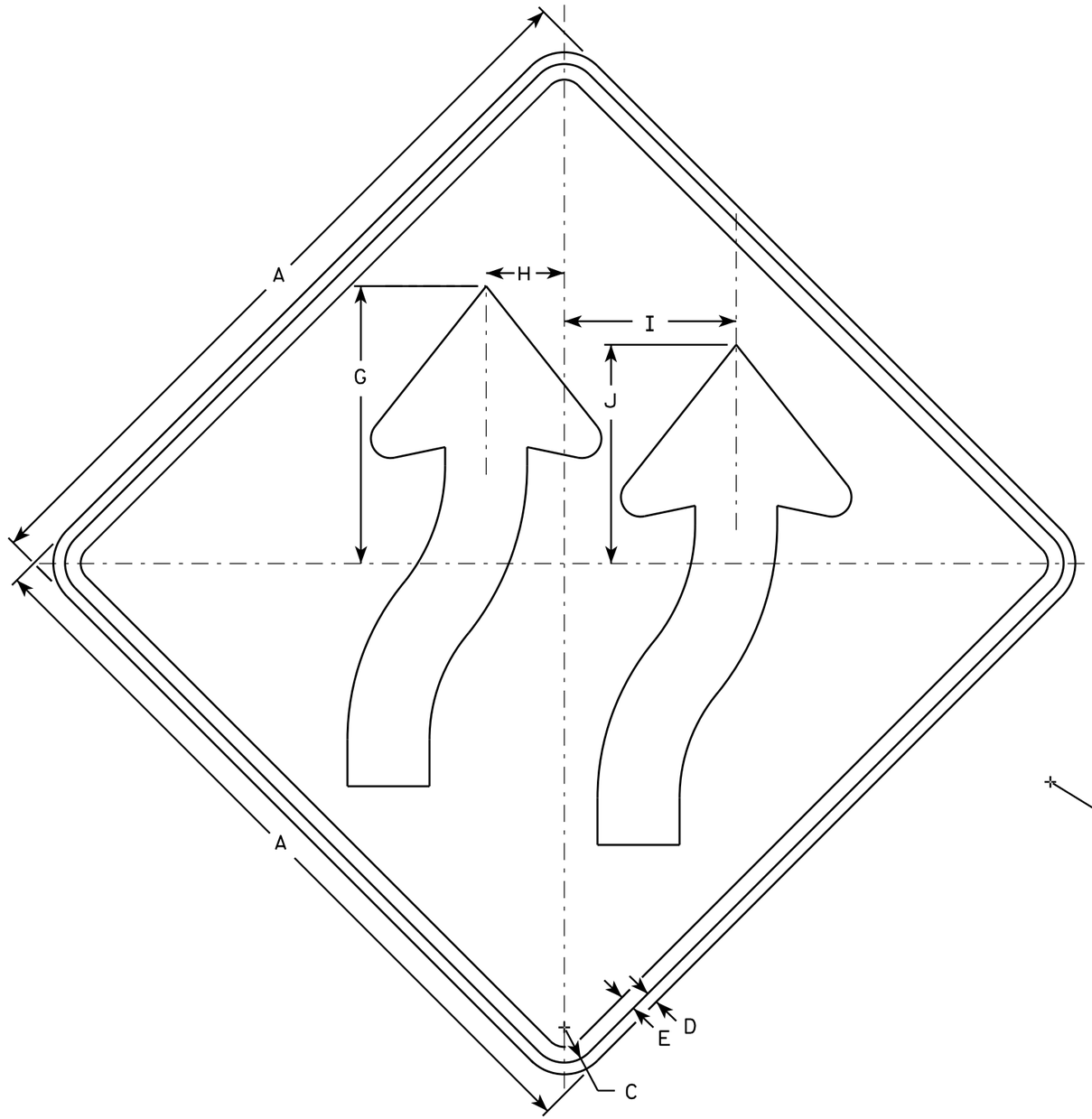
STANDARD SIGN
W21-62

WISCONSIN DEPT OF TRANSPORTATION

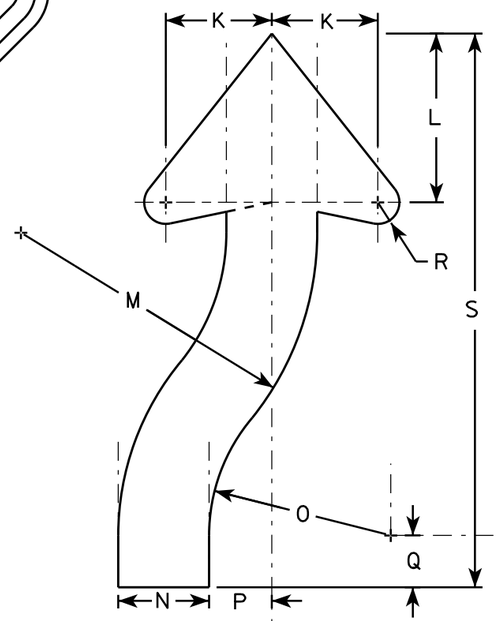
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-62.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 305 | E



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

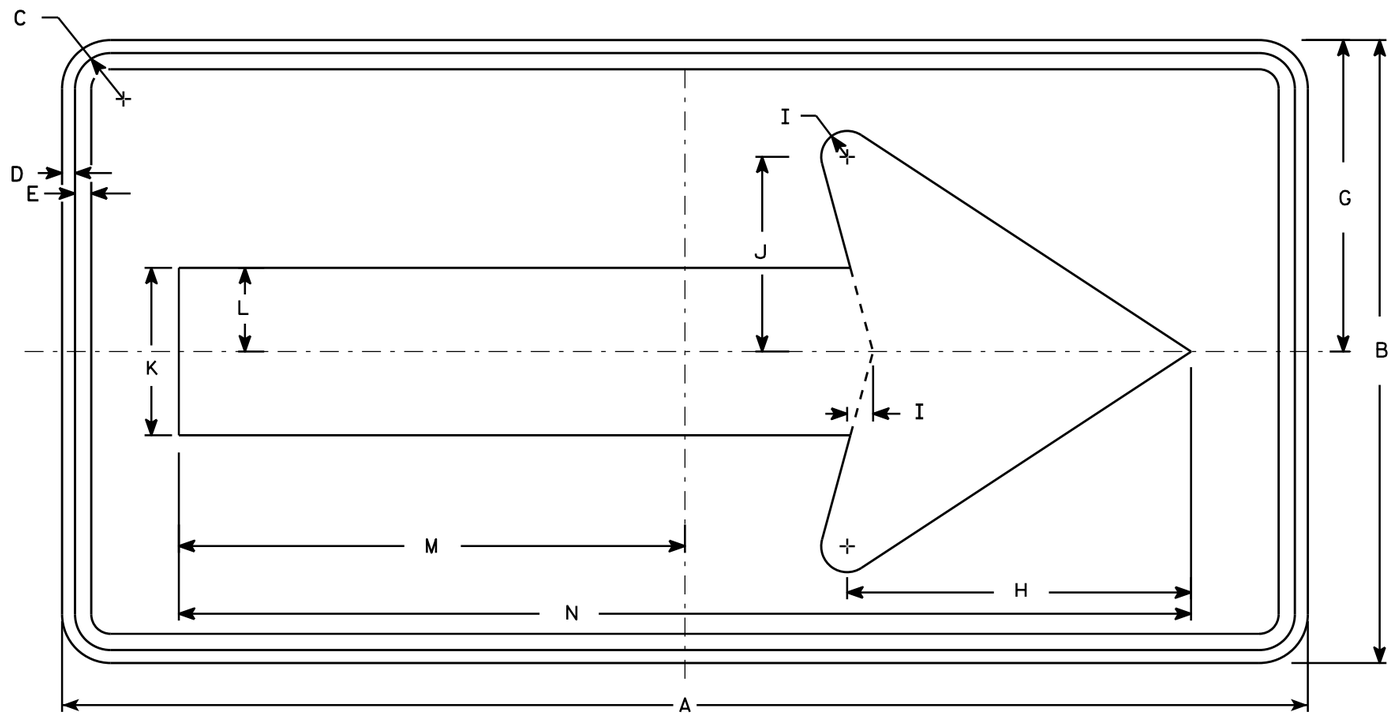
STANDARD SIGN
W01-4b

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

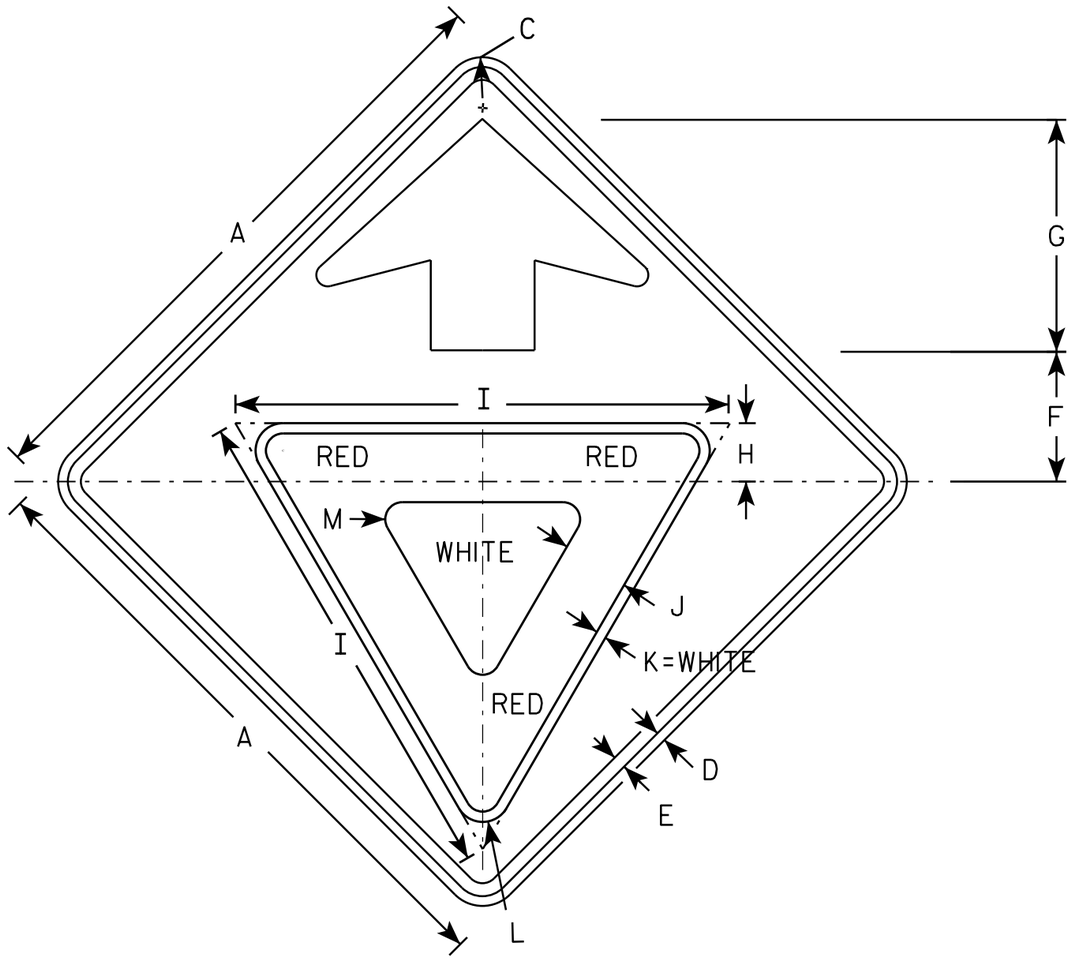
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

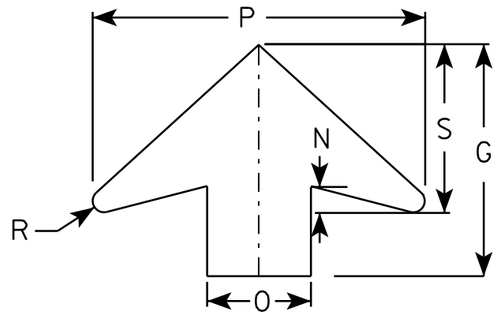
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W03-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - ORANGE
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2S	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
2M	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
3	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W03-2

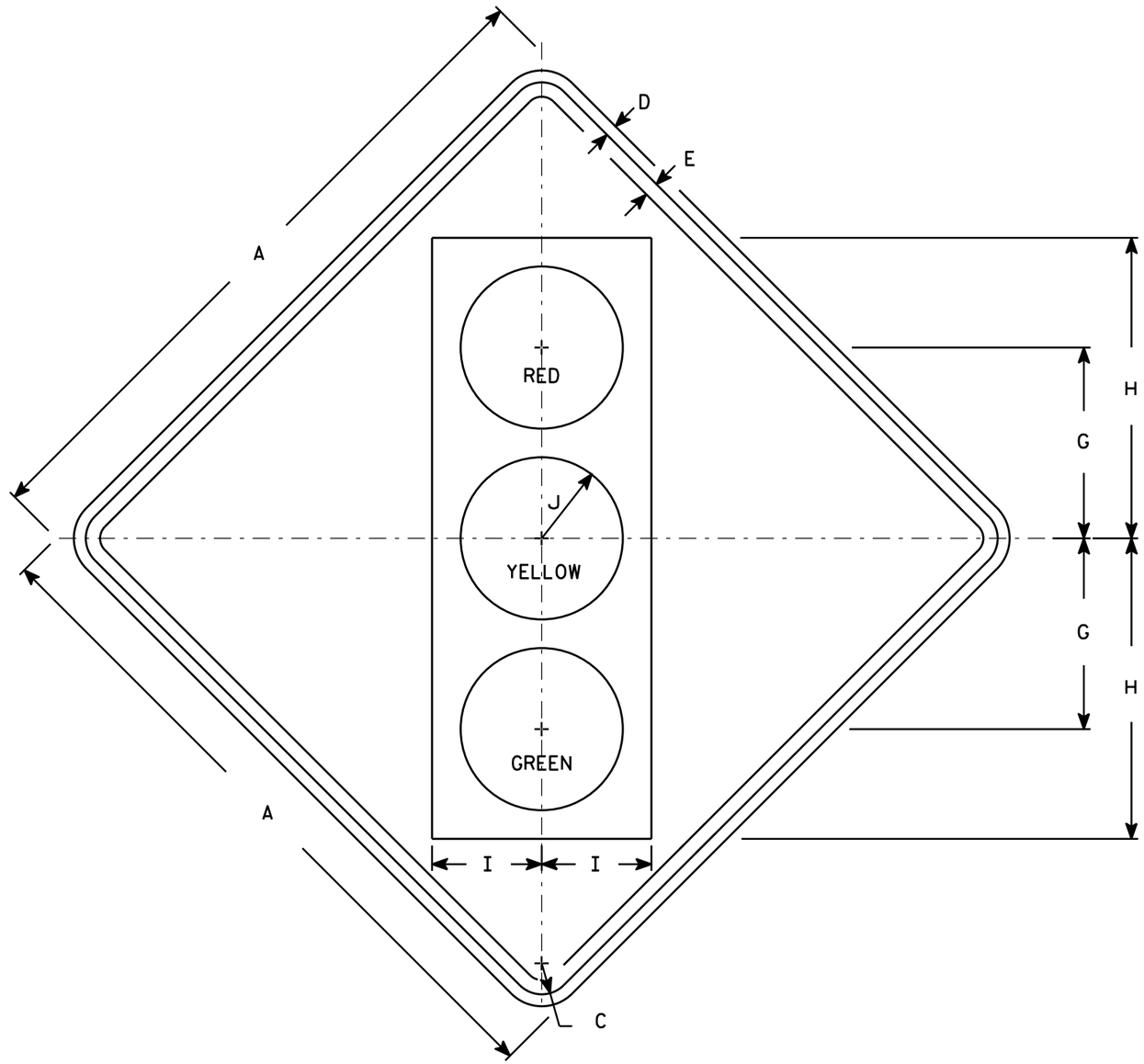
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE NO. W03-2.1

PROJECT NO:

SHEET NO: E



W03-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - 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	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2S	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
2M	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
3	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
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

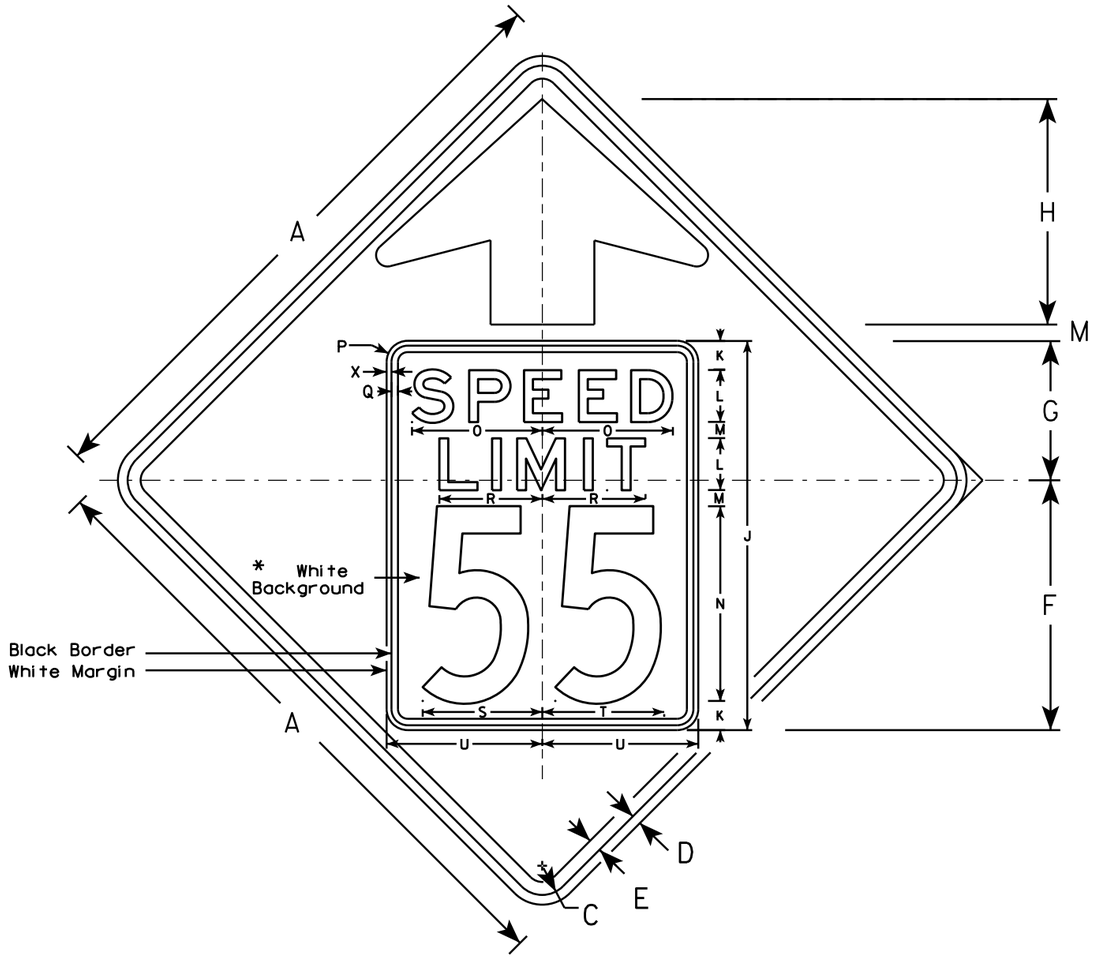
STANDARD SIGN
W03-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLAT 309 W03-3.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

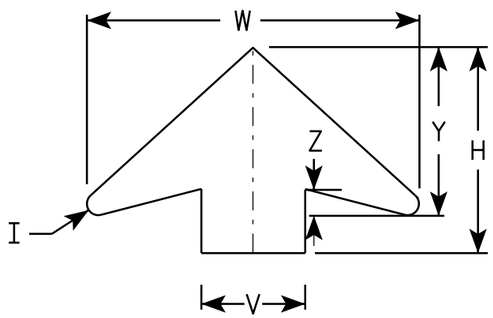


W03-5

NOTES

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

*Speed Limit Sign shall have a White Background



ARROW DETAIL

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

STANDARD SIGN
W03-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

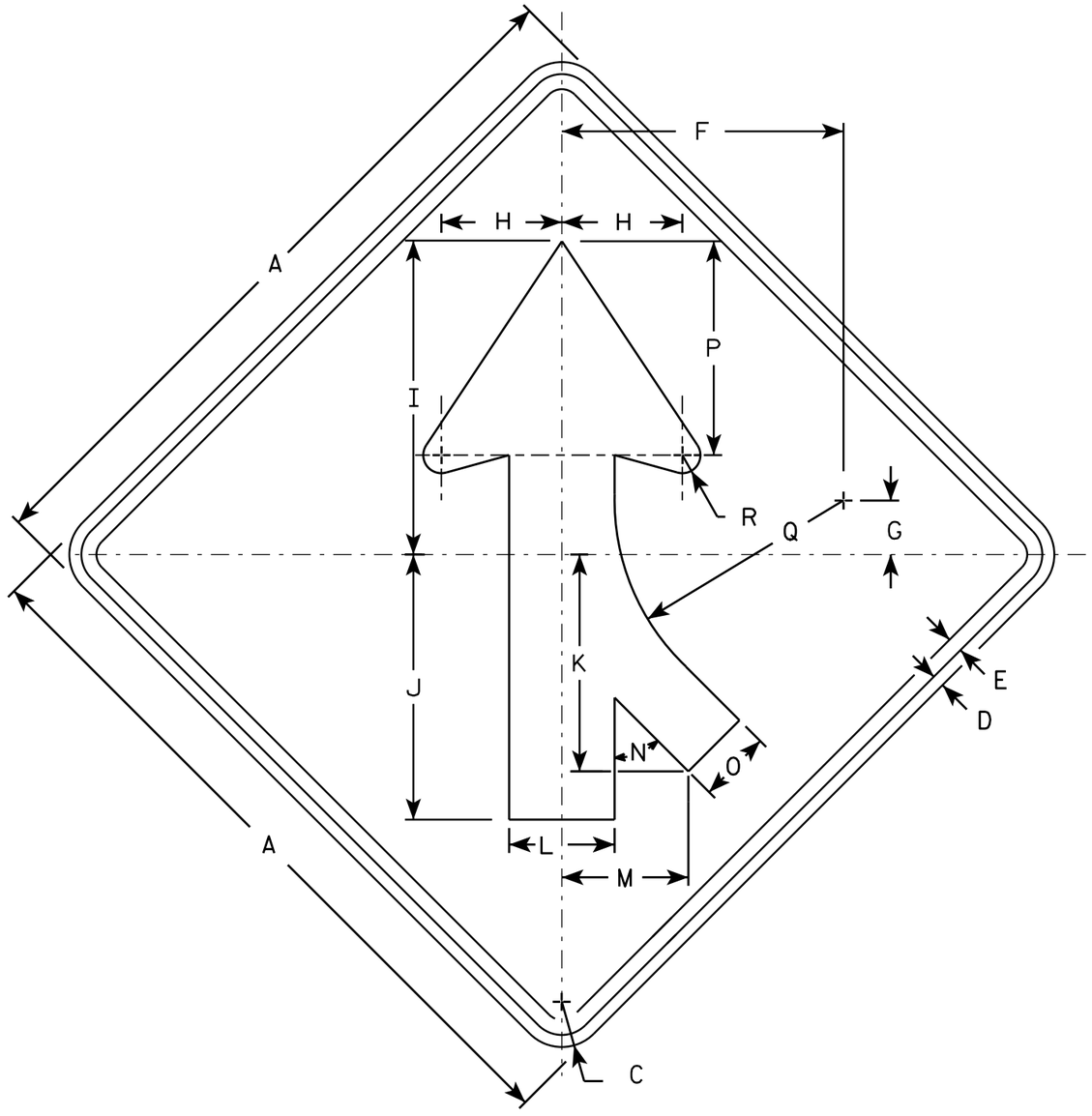
DATE 11/20/13 PLATE W03-5.1

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W035.DGN PLOT DATE : 20-NOV-2013 11:32 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7 7



W04-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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. W4-1L is the same as W4-1R 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	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2S	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
2M	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
3	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

STANDARD SIGN
W04-1

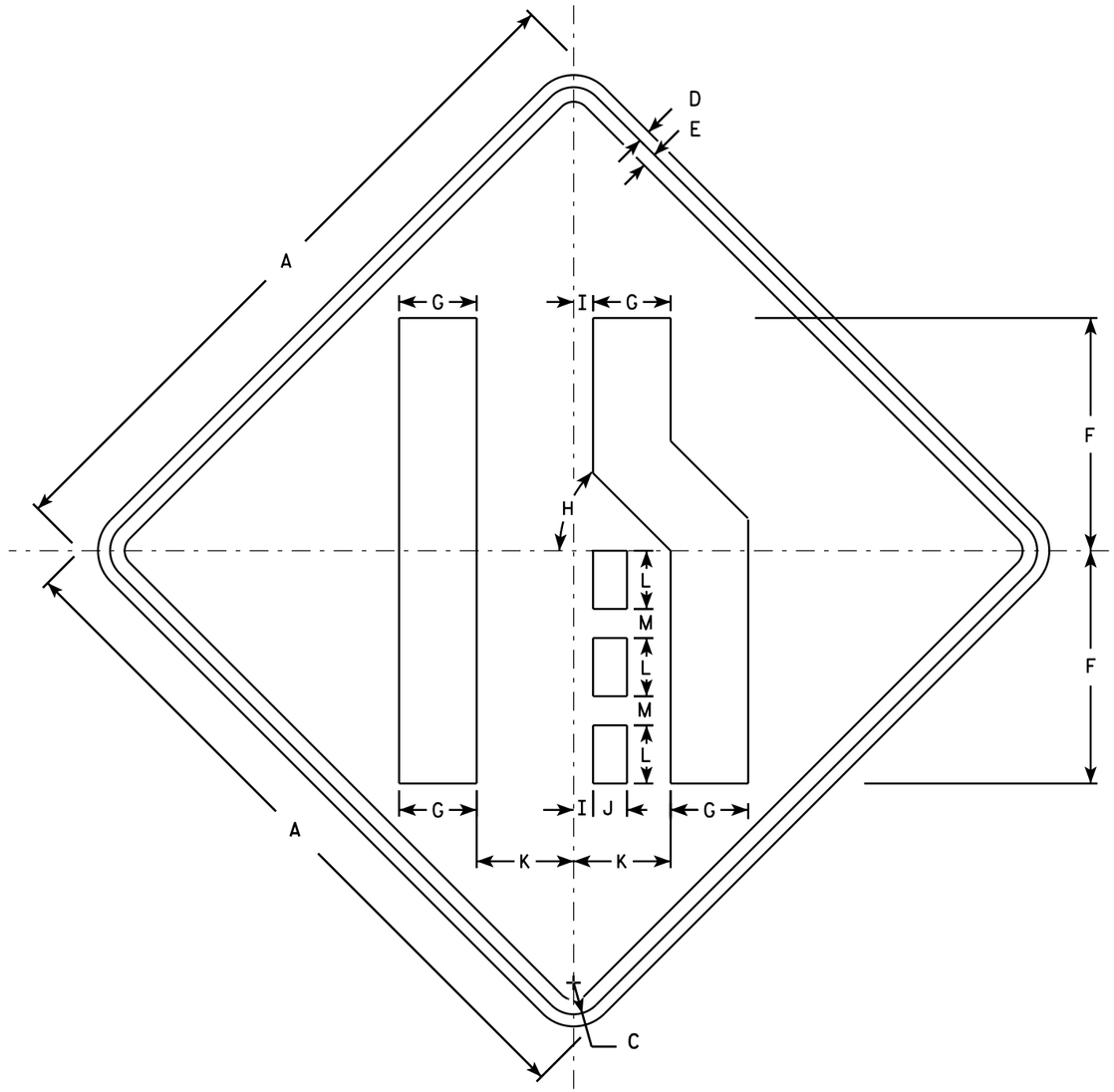
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE NO W04-1.1

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W041.DGN PLOT DATE : 20-NOV-2013 11:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000
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

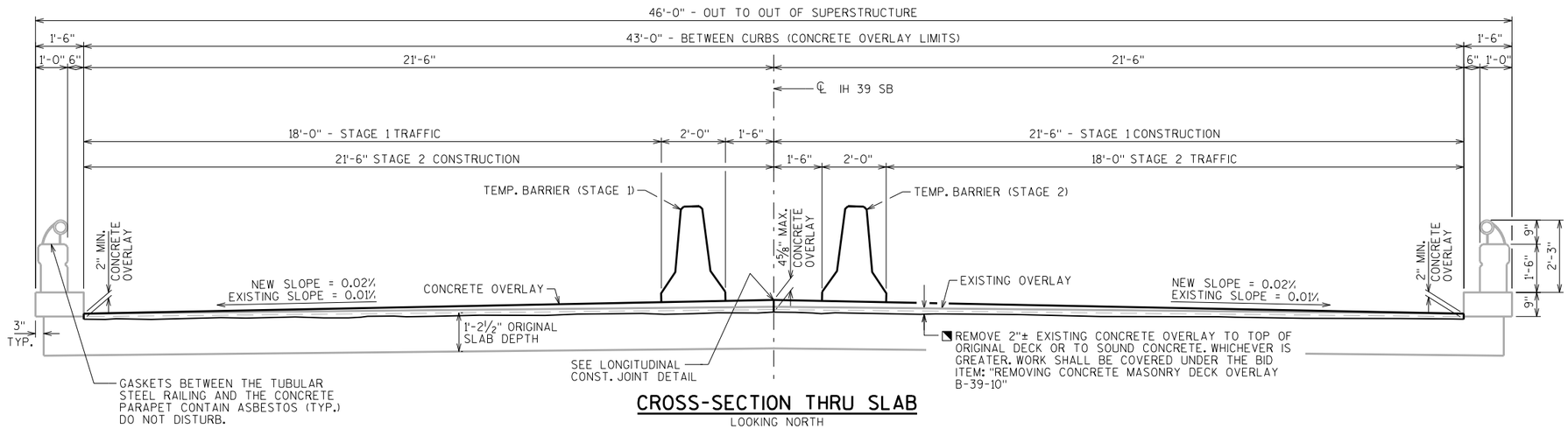
DATE 11/20/13 PLATE 312 W04-2.1

PROJECT NO:

SHEET NO: E

STATE PROJECT NUMBER

1166-07-76



CROSS-SECTION THRU SLAB

LOOKING NORTH

DESIGN DATA

LIVE LOAD:

INVENTORY RATING: HS-17
OPERATING RATING: HS-29
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 170 (KIPS)

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY - SLAB —— f'c = 4,000 P.S.I.
CONCRETE MASONRY - ALL OTHER —— f'c = 3,500 P.S.I.

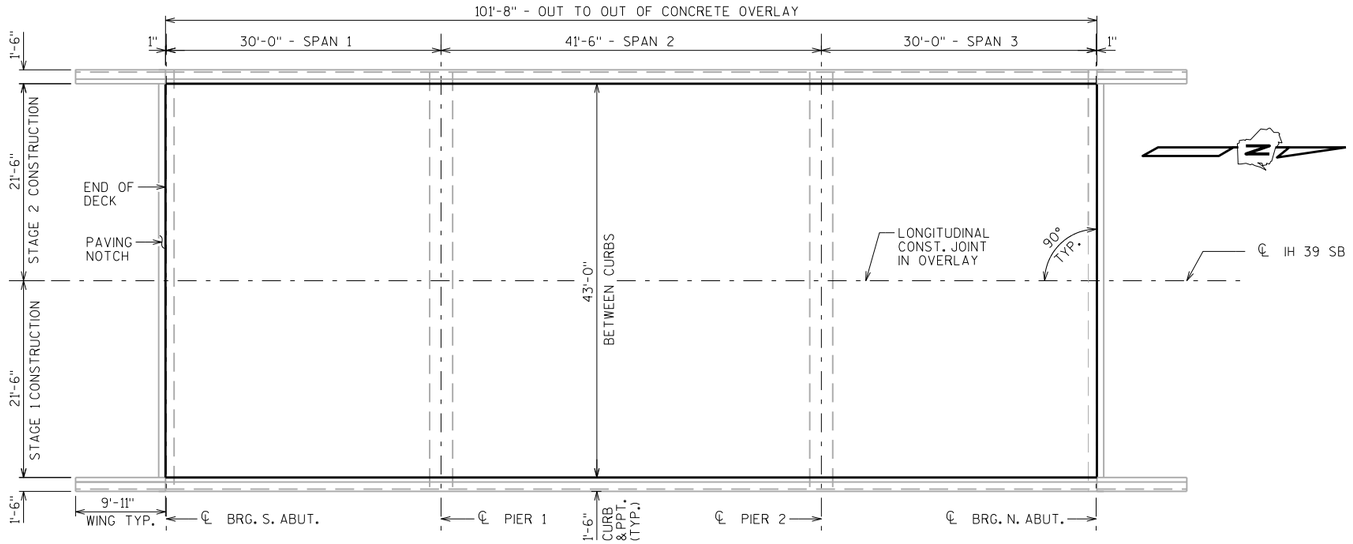
TRAFFIC VOLUME

IH 39 SB

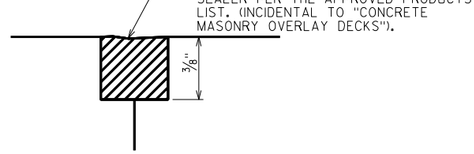
A.D.T.=16,000 (2035)
R.D.S.=70 M.P.H.

◥ CHECK DECK IN 3 LOCATIONS BEFORE REMOVAL TO BE SURE THE REMOVAL IS NOT CATCHING THE TOP REINFORCING MAT OF STEEL.

AVERAGE OVERLAY THICKNESS = 3¼"



PLAN



LONGITUDINAL CONSTRUCTION JOINT DETAIL

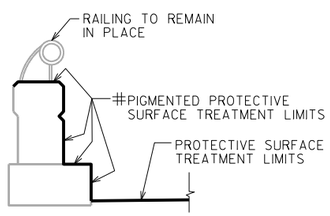
TOTAL ESTIMATED QUANTITIES

502.3200	PROTECTIVE SURFACE TREATMENT	486	SY
#502.3210.S	PIGMENTED PROTECTIVE SURFACE TREATMENT	34	SY
509.0301	PREPARATION DECKS TYPE 1	84	SY
509.0302	PREPARATION DECKS TYPE 2	34	SY
☆509.1500	CONCRETE SURFACE REPAIR	30	SF
509.2000	FULL-DEPTH DECK REPAIR	1	SY
◭509.2500	CONCRETE MASONRY OVERLAY DECKS	51	CY
509.9005.S	REMOVING CONCRETE MASONRY DECK OVERLAY B-39-10	486	SY
◐509.1200	CURB REPAIR	30	LF
509.9050.S	CLEANING PARAPETS	243	LF

◭ BID ITEM ALSO INCLUDES CONCRETE FOR PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, FULL-DEPTH DECK REPAIR AND CURB REPAIR. LOCATIONS TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

☆ CONCRETE SURFACE REPAIR REQUIRED AT SUBSTRUCTURE. LOCATIONS TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

◐ CURB REPAIR LOCATIONS TO BE VERIFIED IN THE FIELD BY THE ENGINEER.



PROTECTIVE SURFACE TREATMENT LIMITS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.

ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

CONTACT THE BUREAU OF STRUCTURES BEFORE PLACEMENT OF OVERLAY IF THE AVERAGE THICKNESS OF THE NEW OVERLAY WILL EXCEED THE AVERAGE OVERLAY SHOWN ON THE PLANS BY MORE THAN ½".

THE EXISTING OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING CONCRETE MASONRY DECK OVERLAY B-39-10".

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE.

AFTER "CLEANING PARAPETS" IS COMPLETED A PIGMENTED PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE CURB, FRONT FACE AND THE TOP OF THE PARAPET, INCLUDING PARAPETS ON ABUTMENT WINGS. COLOR TO BE APPROVED BY FIELD ENGINEER.

STRUCTURE DESIGN CONTACTS:

EMILY KUEHNE (608) 266-5089
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 1/21/15
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-39-10

IH 39 SB OVER FAWN COURT

COUNTY	TOWN/~~CITY/VILLAGE~~
MARQUETTE	OXFORD AND PACKWAUKEE

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
EMK	APC	EMK	APC

CONCRETE OVERLAY

SHEET 1 OF 1

313

8

8

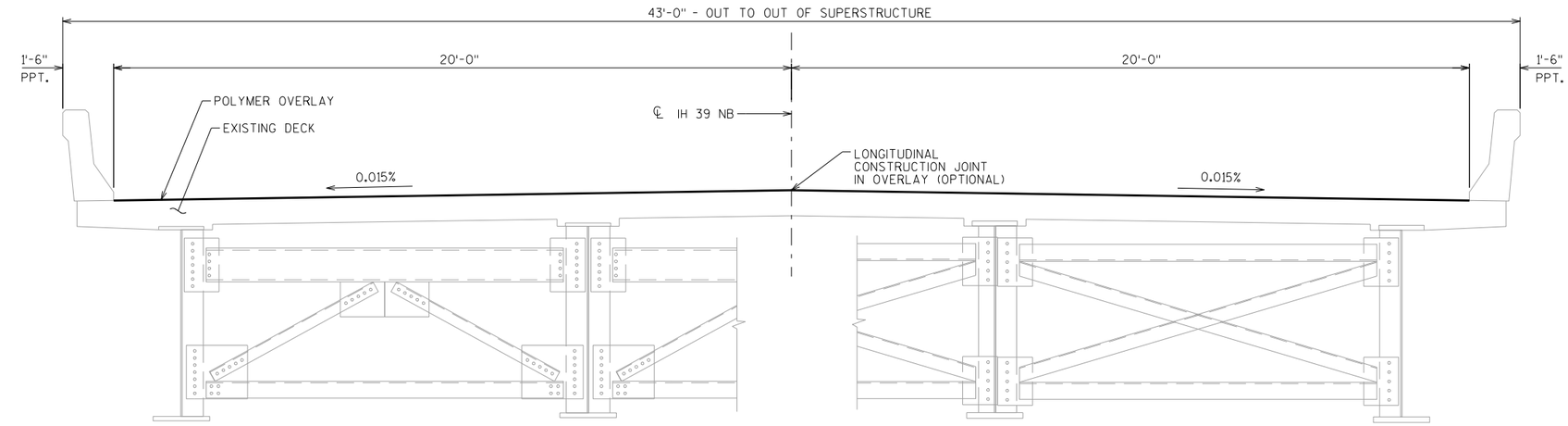
SCALE = 2.0

I.D. 1166-07-06 E

DATE: JAN. 2015

STATE PROJECT NUMBER

1166-07-76



AT ABUTMENT

CROSS-SECTION THRU SUPERSTRUCTURE

LOOKING NORTH

IN SPAN

DESIGN DATA

LIVE LOAD:

INVENTORY RATING: HS-24
OPERATING RATING: HS-41
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250 (KIPS)

ULTIMATE DESIGN STRESSES:

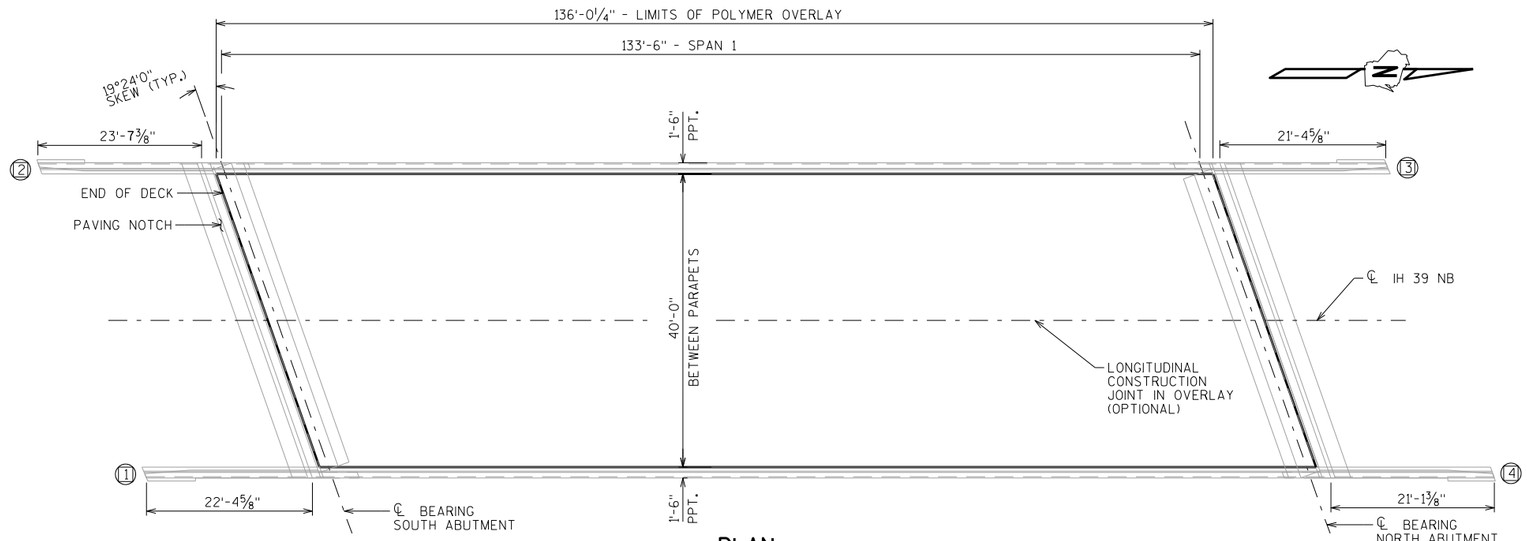
CONCRETE MASONRY - SLAB ——— f'c = 4,000 P.S.I.
CONCRETE MASONRY - ALL OTHER f'c = 3,500 P.S.I.

TRAFFIC VOLUME

IH 39 NB

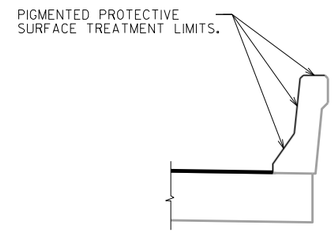
A.D.T.=17,200 (2035)
R.D.S.=70 M.P.H.

⬡ INDICATES WING NUMBER



PLAN

SINGLE SPAN - STEEL GIRDER



PROTECTIVE SURFACE TREATMENT LIMITS

TOTAL ESTIMATED QUANTITIES

	502.3210.S	PIGMENTED PROTECTIVE SURFACE TREATMENT	143	SY
⚠	509.5100.S	POLYMER OVERLAY	605	SY
	509.9050.S	CLEANING PARAPETS	368	LF
◔	517.3000.S	STRUCTURE OVERCOATING CLEANING AND PRIMING B-39-26	1	LS
	517.4000.S	CONTAINMENT AND COLLECTION OF WASTE MATERIALS	1	LS
	517.6001.S	PORTABLE DECONTAMINATION FACILITY	1	EA

⚠ USE POLYMER OVERLAY MATERIALS AS DIRECTED BY FIELD ENGINEER TO REESTABLISH TYPICAL GRADE ELEVATION PRIOR TO POLYMER OVERLAY. MATERIALS AND PLACEMENT INCIDENTAL TO "POLYMER OVERLAY".

◔ "STRUCTURE OVERCOATING CLEANING AND PRIMING B-39-26" TO BE PERFORMED ON ALL STEEL SUPERSTRUCTURE COMPONENTS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

PIGMENTED PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPET, INCLUDING PARAPETS ON ABUTMENT WINGS.

SUPERSTRUCTURE PAINT COLOR TO BE FEDERAL NUMBER 26132 (DARK GREY).

STRUCTURE DESIGN CONTACTS:

ANDREW CASPER (608) 261-6109
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Duchin 1/21/15
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-39-26

IH 39 NB OVER STH 23

COUNTY: MARQUETTE	TOWN/CITY/VILLAGE: OXFORD AND PACKWAUKEE
DESIGN SPEC.: REHABILITATION N/A	
DESIGNED BY: APC	DESIGN CK'D.: EMK
DRAWN BY: APC	PLANS CK'D.: EMK

POLYMER OVERLAY

SHEET 1 OF 1

314

I.D. 1166-07-06E

DATE: JULY 2014

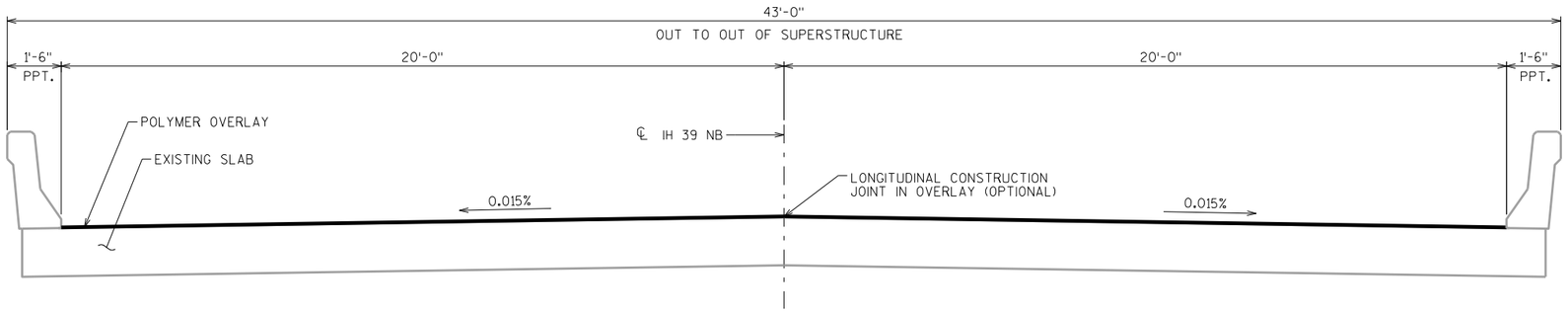
SCALE = 2.0

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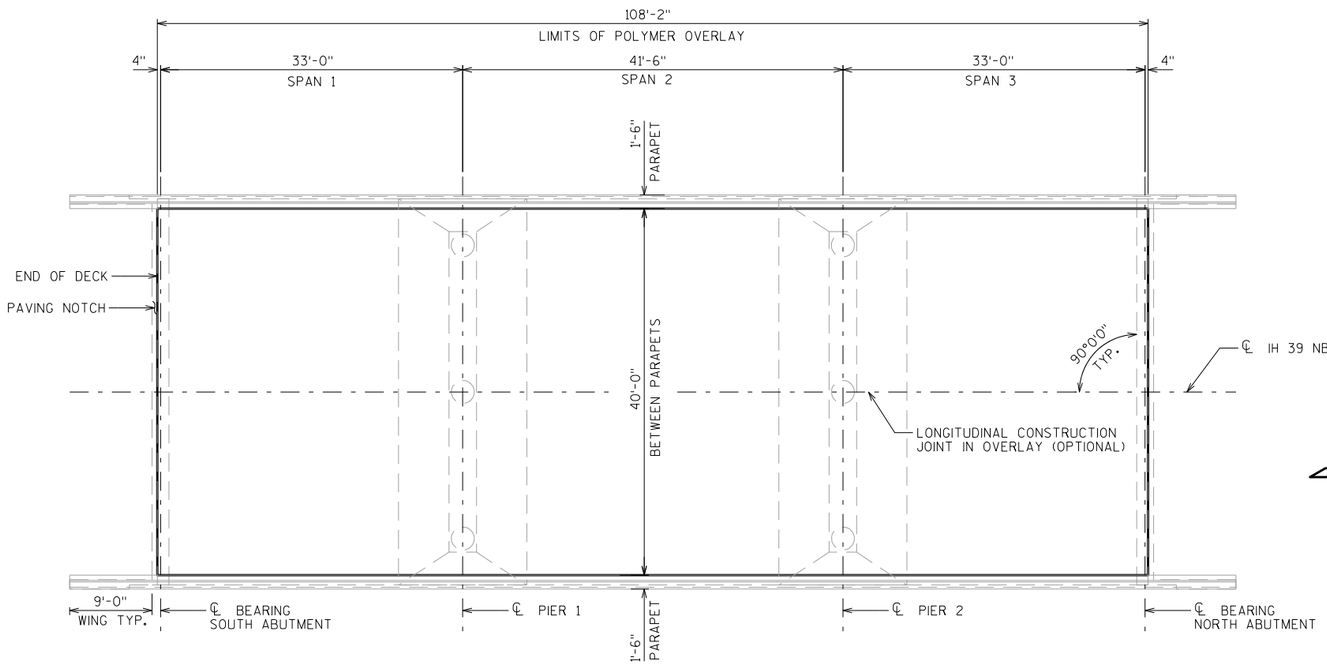
STATE PROJECT NUMBER

1166-07-76



CROSS-SECTION THRU SLAB

LOOKING NORTH



PLAN

3 SPAN - HAUNCHED SLAB

DESIGN DATA

LIVE LOAD:

INVENTORY RATING: HS-25
OPERATING RATING: HS-42
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 185 (KIPS)

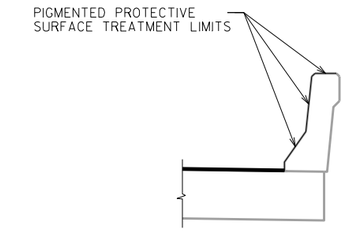
ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY - SLAB ——— f'c = 4,000 P.S.I.
CONCRETE MASONRY - ALL OTHER f'c = 3,500 P.S.I.

TRAFFIC VOLUME

IH 39 NB

A.D.T.=17,200 (2035)
R.D.S.=70 M.P.H.



PROTECTIVE SURFACE TREATMENT LIMITS

TOTAL ESTIMATED QUANTITIES

502.3210.S	PIGMENTED PROTECTIVE SURFACE TREATMENT	99	SY
◒ 509.1500	CONCRETE SURFACE REPAIR	10	SF
⚠ 509.5100.S	POLYMER OVERLAY	481	SY
509.9050.S	CLEANING PARAPETS	255	LF

◒ CONCRETE SURFACE REPAIR AT SOUTH ABUT. QUANTITY AND EXACT LOCATION TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

⚠ USE POLYMER OVERLAY MATERIALS AS DIRECTED BY FIELD ENGINEER TO REESTABLISH TYPICAL GRADE ELEVATION PRIOR TO POLYMER OVERLAY. MATERIALS AND PLACEMENT INCIDENTAL TO "POLYMER OVERLAY".

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

PIGMENTED PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPET, INCLUDING PARAPETS ON ABUTMENT WINGS.

STRUCTURE DESIGN CONTACTS:

ANDREW CASPER (608) 261-6109
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 1/21/15
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-39-27

IH 39 NB OVER FAWN COURT

COUNTY	TOWN/CITY/VILLAGE
MARQUETTE	OXFORD AND PACKWAUKEE

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
APC	EMK	APC	EMK

POLYMER OVERLAY

SHEET 1 OF 1

315

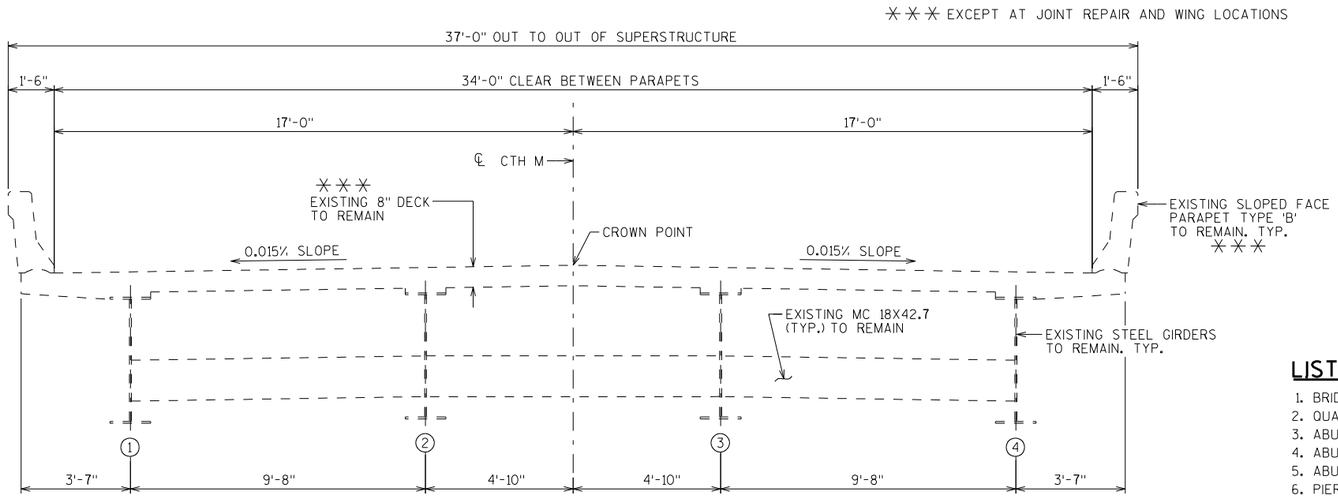
I.D. 1166-07-06A

DATE: JULY 2014

SCALE = 2.0

8

8



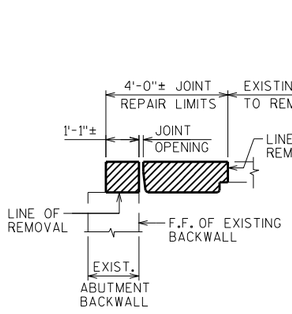
CROSS SECTION THRU ROADWAY - LOOKING EAST

LIST OF DRAWINGS

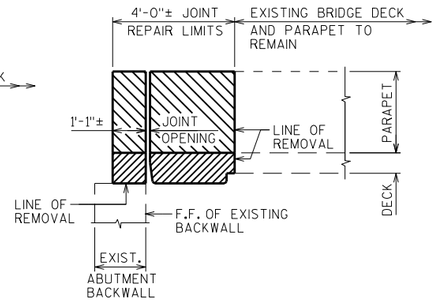
1. BRIDGE RAISING & REPAINTING
2. QUANTITIES
3. ABUTMENT REMOVAL DETAILS
4. ABUTMENT DETAILS
5. ABUTMENT WING DETAILS
6. PIER DETAILS
7. EXPANSION DEVICE
8. COVER PLATE DETAILS
9. JOINT REPAIR
10. BEARING DETAILS
11. SLOPED FACE PARAPET 'B'

BENCH MARK

NO.	DESCRIPTION	ELEV.
1	ALUMINUM CAP ON THE SW CORNER OF WING WALL STRUTURE B-39-28	896.47
2	60D SPIKE IN A 14' RED PINE 700' M/L WEST OF STRUCTURE B-39-28, SOUTH SIDE OF CTH M	897.30



SECTION A-A



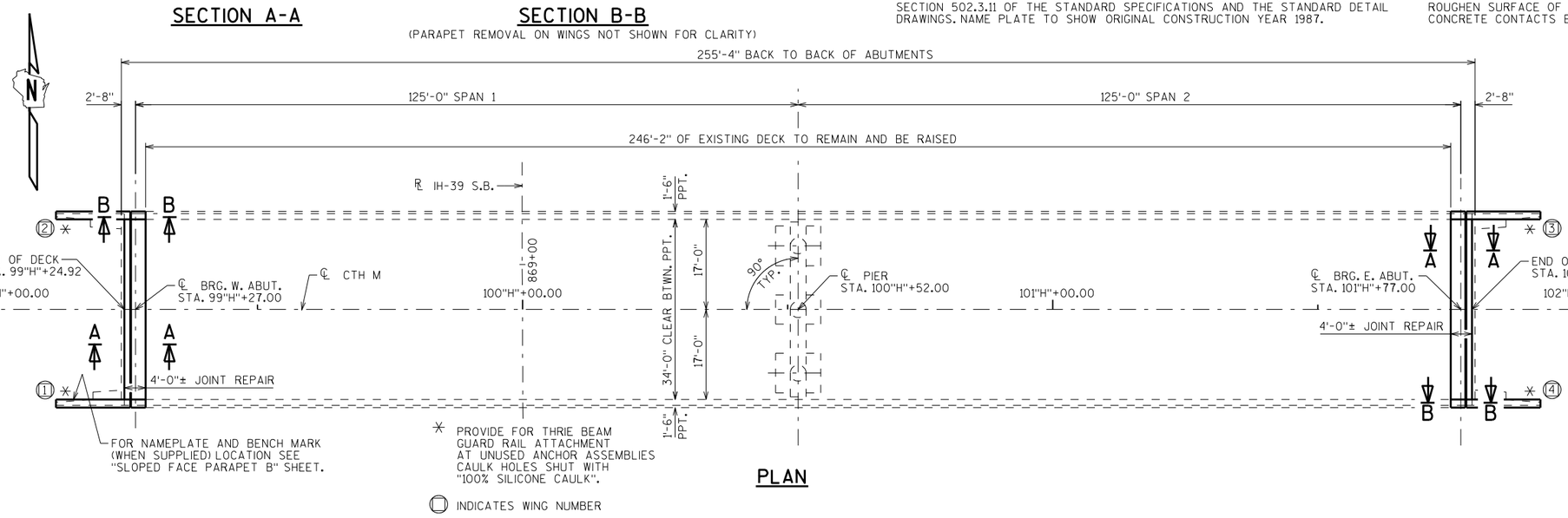
SECTION B-B

(PARAPET REMOVAL ON WINGS NOT SHOWN FOR CLARITY)

GENERAL NOTES (CONTINUED)

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF BOTH ABUTMENTS BELOW EXPANSION DEVICES. POWER WASH AND ADEQUATELY DRY SURFACES BEFORE APPLICATION. WORK SHALL BE INCIDENTAL TO JOIINT REPAIR.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR 1987.



PLAN

DESIGN DATA

LIVE LOAD:
INVENTORY RATING; HS-25
OPERATIONAL RATING; HS-41
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 250 KIPS.

MATERIAL PROPERTIES
CONCRETE MASONRY SLAB — f'c = 4,000 P.S.I. ALL OTHER — f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 P.S.I.

GENERAL NOTES

IMPROVEMENTS INCLUDE BRIDGE JACKING TO OBTAIN MINIMUM VERTICAL CLEARANCE, REPAINTING EXISTING STEEL GIRDERS, REPLACING EXPANSION JOINTS AND REPLACING BEARINGS.

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.

ALL EXPOSED STEEL SURFACES UNDERNEATH THE BRIDGE ARE TO BE CLEANED AND PAINTED. THESE SURFACES INCLUDE GIRDERS, INTERMIEDIATE DIAPHRAGMS AND BEARING CONNECTIONS. THE COLOR FOR FINISH COATING SHALL BE LIGHT GRAY (FEDERAL COLOR #26293).

ANY EXCAVATION NECESSARY TO COMPLETE THE JOINT REPAIR AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "JOINT REPAIR".

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TOP OF NEW DECK EXPOSED CONCRETE.

AFTER "CLEANING PARAPETS" IS COMPLETED, A "PIGMENTED PROTECTIVE SURFACE TREATMENT" SHALL BE APPLIED TO THE FRONT FACE AND THE TOP OF BOTH THE NEW AND EXISTING PARAPETS, INCLUDING THE PARAPETS ON ABUTMENT WINGS.

THE "PIGMENTED PROTECTIVE SURFACE TREATMENT" COLOR IS TO BE LIGHT GRAY AS DETERMINED AND APPROVED BY THE FIELD ENGINEER PRIOR TO IT'S APPLICATION.

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP MIN. SAWCUT.

CONTRACTOR TO VERIFY THAT RAISED GIRDERS WILL PROVIDE A MINIMUM VERTICAL CLEARANCE OF 16'-9" OVER IH 39 DRIVING LANES AND SHOULDERS PRIOR TO MODIFYING THE ABUTMENT AND PIER BEAM SEATS.

THE SLOPE PAVING OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE RESEALED PER BID ITEM "RESEAL CRUSHED AGGREGATE SLOPE PAVING".

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE PAID FOR UNDER BID ITEM "EXPANSION DEVICE B-39-28".

ROUGHEN SURFACE OF CONCRETE 1/4" DEEP MINIMUM AT ALL AREAS WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE.

STATE PROJECT NUMBER
1166-07-76

STRUCTURE DESIGN CONTACTS:
BRANDAN BURGER (608) 267-4019
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES
ACCEPTED William C. Dreher 1/21/15
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-39-28

CTH M OVER IH-39

COUNTY: MARQUETTE		TOWN: ~~CITY/VILLAGE~~ WESTFIELD	
DESIGN SPEC.: REHABILITATION		N/A	
DESIGNED BY: BLB	DESIGN CK'D.: APC	DRAWN BY: DDS	PLANS CK'D.: BLB

BRIDGE RAISING & REPAINTING

SHEET 1 OF 11

316

I.D. 1166-07-00B

DATE: OCT. 2014

SCALE = 12

STATE PROJECT NUMBER
1166-07-76

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST ABUT.	PIER	EAST ABUT.	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 100"H"+50.34	LS	——	——	——	——	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-39-28	LS	——	——	——	——	1
210.0100	BACKFILL STRUCTURE	CY	——	50	——	50	100
502.0100	CONCRETE MASONRY BRIDGES	CY	8	9	1	9	27
502.3100	EXPANSION DEVICE B-39-28	LS	——	——	——	——	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY	30	——	——	——	30
502.3210.S	PIGMENTED PROTECTIVE SURFACE TREATMENT	SY	213	——	——	——	213
502.5002	MASONRY ANCHORS TYPE L NO. 4 BARS	EACH	——	32	——	32	64
502.5005	MASONRY ANCHORS TYPE L NO. 5 BARS	EACH	——	68	——	68	136
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	1,570	1,600	70	1,600	4,840
506.5000	BEARING ASSEMBLIES FIXED B-39-28	EACH	——	——	4	——	4
506.6000	BEARING ASSEMBLIES EXPANSION B-39-28	EACH	——	4	——	4	8
506.7050.S	REMOVING BEARINGS B-39-28	EACH	——	4	4	4	12
506.7060.S	BRIDGE JACKING B-39-28	LS	——	——	——	——	1
509.1000	JOINT REPAIR	SY	——	17	——	17	34
509.9050.S	CLEANING PARAPETS	LF	494	——	——	——	494
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	——	10	——	10	20
517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-39-28	LS	——	——	——	——	1
517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-39-28	LS	——	——	——	——	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1	——	——	——	1
604.9015.S	RESEAL CRUSHED AGGREGATE SLOPE PAVING	SY	——	127	——	127	254
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	——	2	——	2	4
	NON-BID ITEMS						
	BRIDGE SEAT PROTECTION	LS	——	——	——	——	1
	FILLER	SIZE	——	——	——	——	1/2" & 3/4"

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-28

DRAWN BY DDS | PLANS CK'D. BLB

QUANTITIES

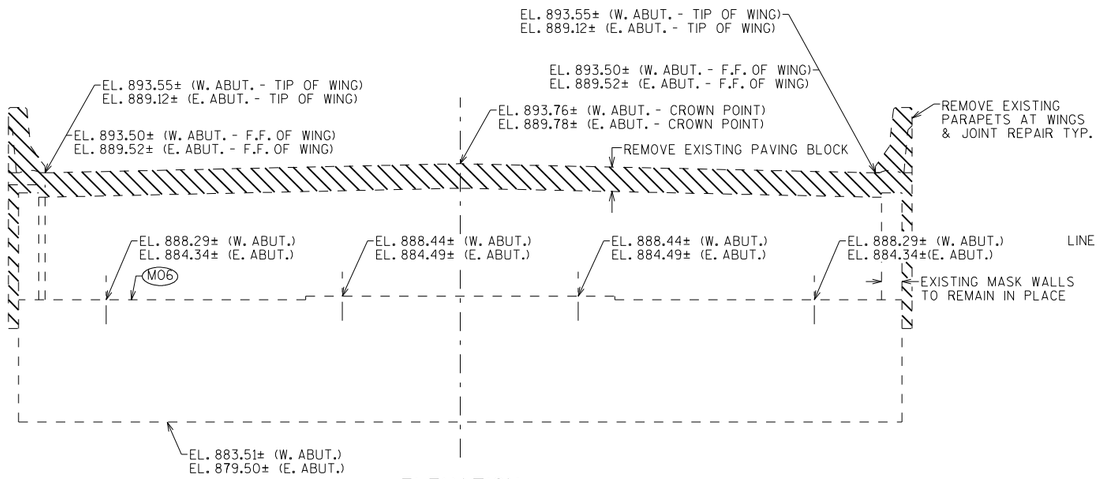
SHEET 2

317

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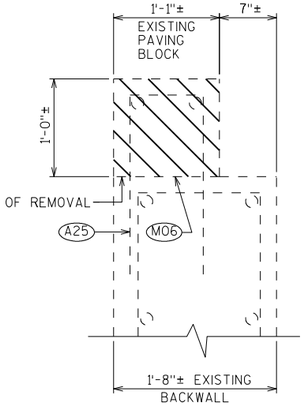
STATE PROJECT NUMBER

1166-07-76

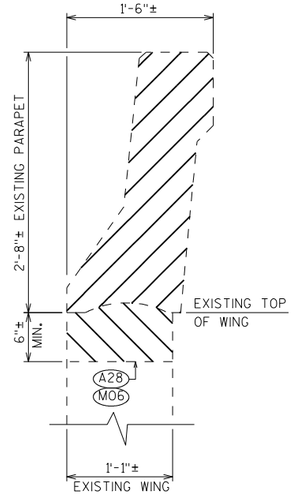


ELEVATION

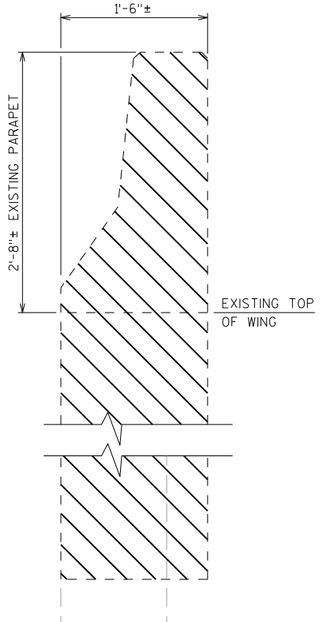
WEST ABUTMENT - LOOKING WEST
EAST ABUTMENT - LOOKING EAST



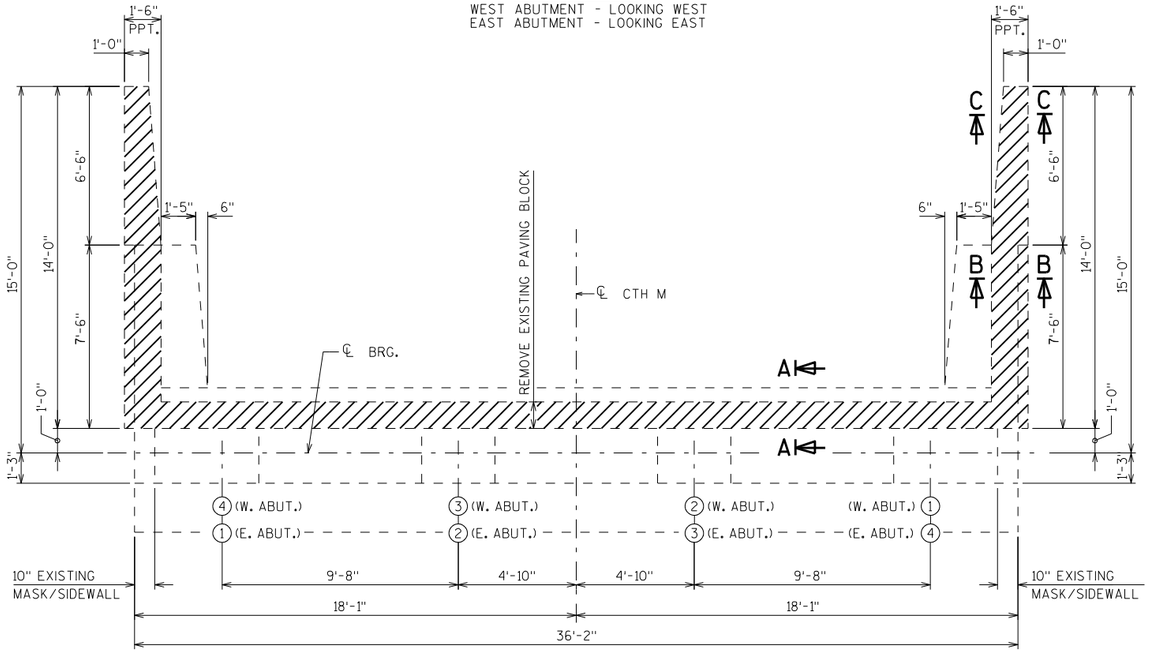
SECTION A-A



SECTION B-B



SECTION C-C

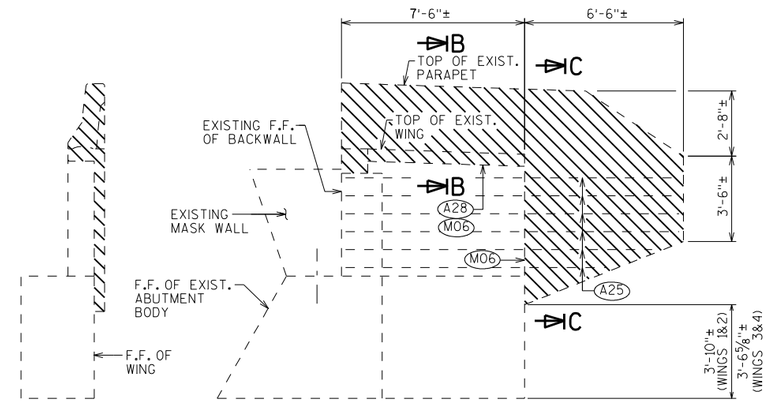


PLAN

(A25) SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

(A28) EXISTING WINGS. REMOVE A MIN. OF 6" BELOW TOP OF EXISTING WING.

(M06) ROUGHEN SURFACE OF CONCRETE 1/4" DEEP MINIMUM AT ALL AREAS WHERE NEW CONC. CONTACTS EXISTING CONCRETE.



SECTION THRU WING

ELEVATION OUTSIDE OF WING

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-28

DRAWN BY DDS | PLANS CK'D. BLB

ABUTMENT REMOVAL DETAILS

SHEET 3

318

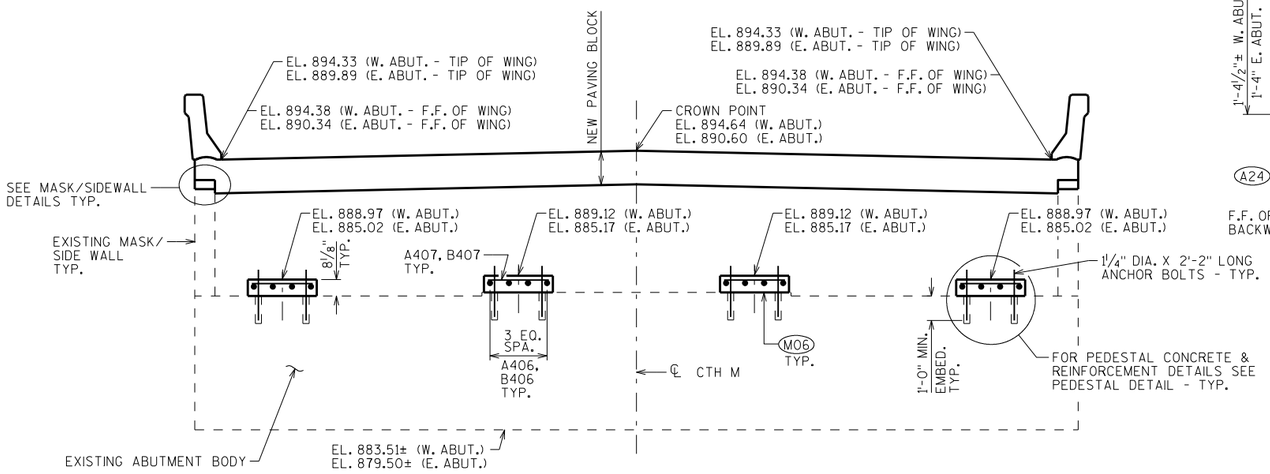
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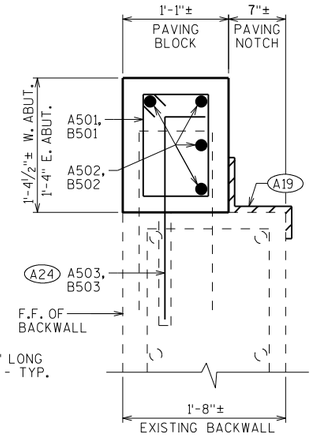
STATE PROJECT NUMBER

1166-07-76

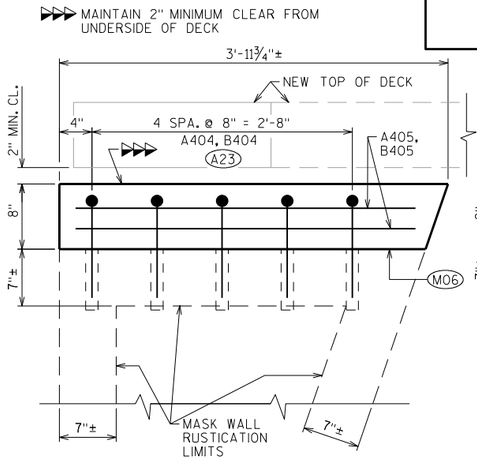


ELEVATION

WEST ABUTMENT - LOOKING WEST
EAST ABUTMENT - LOOKING EAST

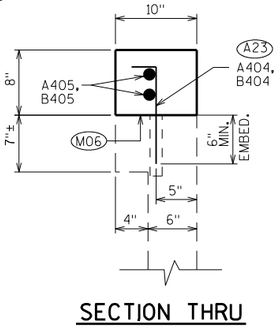


SECTION A-A



OUTSIDE ELEVATION MASK/SIDE WALL

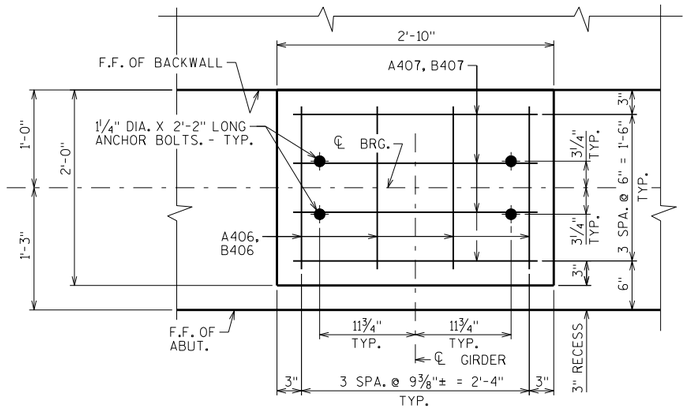
TYP.



SECTION THRU MASK/SIDE WALL

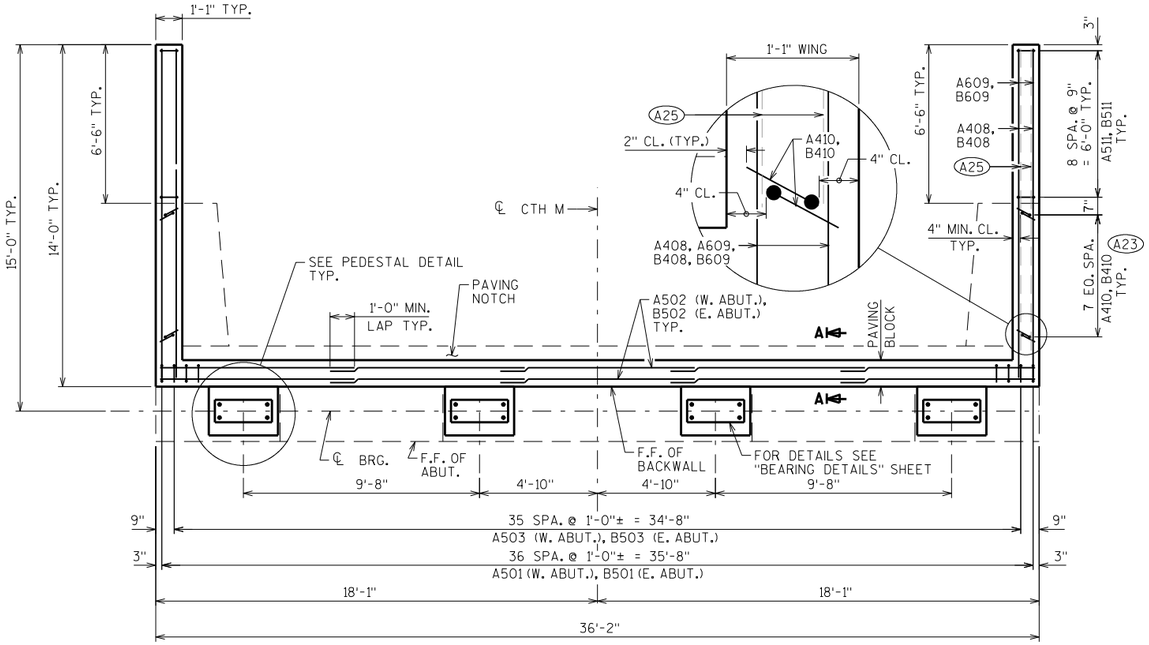
TYP.

MASK/SIDE WALL DETAILS



PEDESTAL DETAIL

TYP.



PLAN

TYP. - BOTH ABUTMENTS

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A23) MASONRY ANCHORS TYPE L NO. 4 BARS, EMBED 6" IN CONCRETE. TURN HORIZONTAL LEG AS NECESSARY TO FIT.

(A24) MASONRY ANCHORS TYPE L NO. 5 BARS, EMBED 1'-6" IN CONCRETE. TURN HORIZONTAL LEG AS NECESSARY TO FIT.

(A25) SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

(M06) ROUGHEN SURFACE OF CONCRETE 1/4" DEEP MINIMUM AT ALL AREAS WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-28

DRAWN BY DDS | PLANS CK'D. BLB

ABUTMENT DETAILS

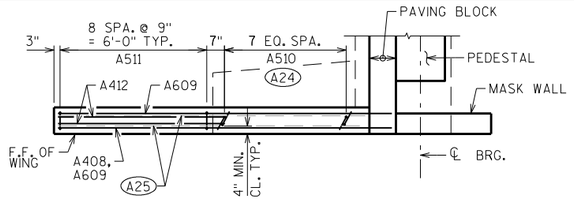
SHEET 4

319

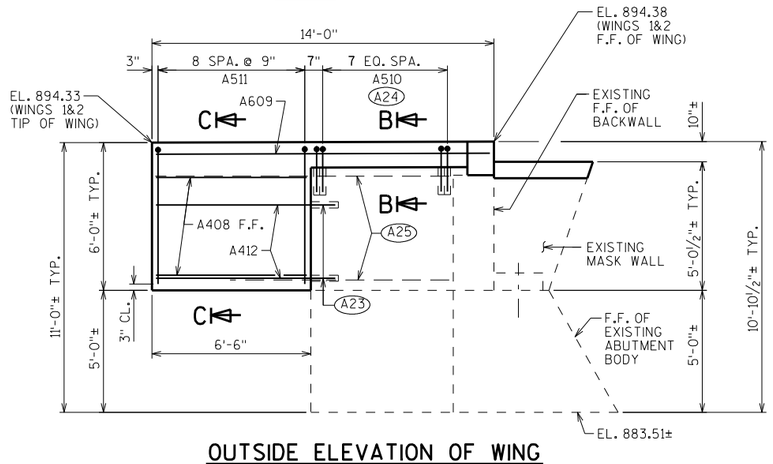
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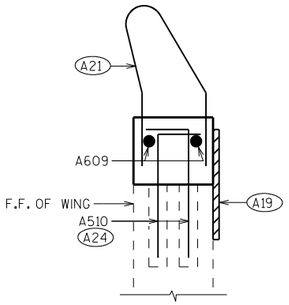


PLAN



OUTSIDE ELEVATION OF WING

WING 1 SHOWN
WING 2 SIMILAR



SECTION B-B

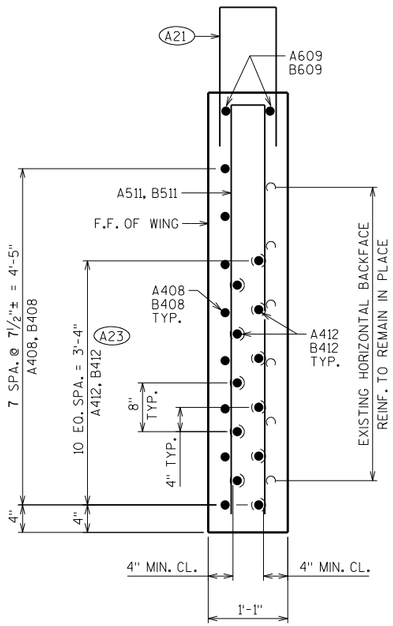
(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A21) FOR PPT. BARS & DIMENSION SEE "SLOPED FACE PARAPET B" SHEET.

(A23) MASONRY ANCHORS TYPE L NO. 4 BARS, EMBED 6" IN CONCRETE. TURN HORIZ. LEG AS NECESSARY TO FIT.

(A24) MASONRY ANCHORS TYPE L NO. 5 BARS, EMBED 1'-6" IN CONCRETE. TURN HORIZ. LEG AS NECESSARY TO FIT.

(A25) SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.



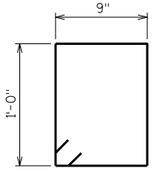
SECTION C-C

BILL OF BARS

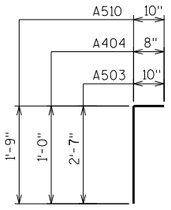
(WEST ABUTMENT)

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

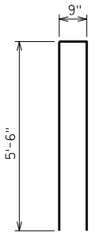
	BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
	A501	X	37	4'-2"	X		PAVING BLOCK - STIRRUP
	A502	X	20	8'-0"			PAVING BLOCK - HORIZ.
(A24)	A503	X	36	3'-4"	X		PAVING BLOCK/BACKWALL - CONCRETE MASONRY ANCHOR
(A23)	A404	X	10	1'-7"	X		MASK WALL - CONCRETE MASONRY ANCHOR
	A405	X	4	3'-5"			MASKWALL - HORIZ.
	A406	X	16	1'-8"			BEAM SEAT PEDESTAL - HORIZ.
	A407	X	16	2'-6"			BEAM SEAT PEDESTAL - HORIZ.
	A408	X	16	6'-2"			WINGS 1&2 - HORIZ.
	A609	X	4	13'-8"			WINGS 1&2 - HORIZ. - TOP
(A24)	A510	X	32	2'-6"	X		WINGS 1&2 - CONCRETE MASONRY ANCHORS
	A511	X	18	11'-6"	X		WINGS 1&2 - VERT.
(A23)	A412	X	22	6'-10"			WINGS 1&2 - CONCRETE MASONRY ANCHORS



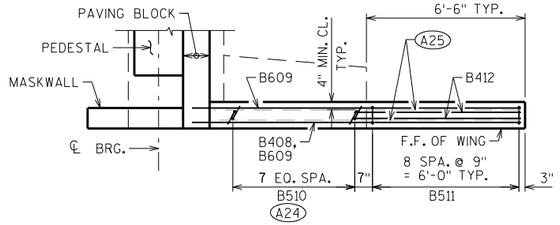
A501



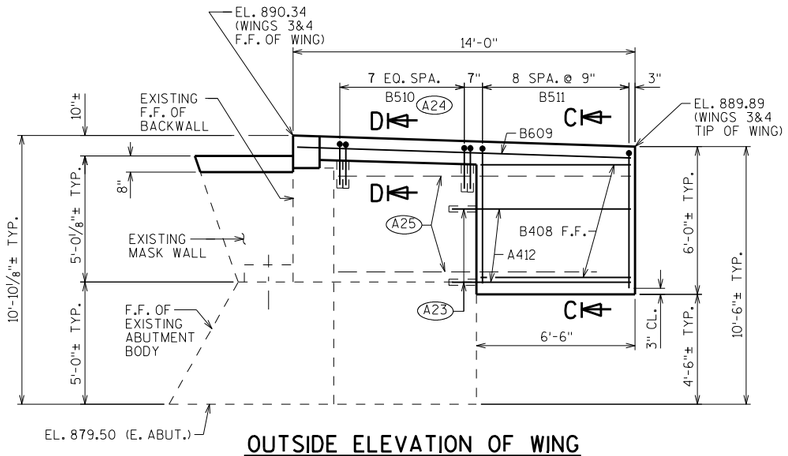
A503, A404, A510



A511

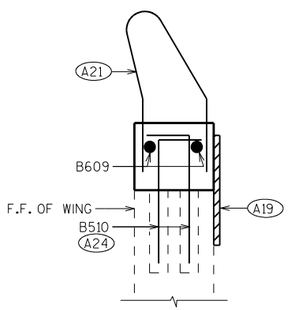


PLAN



OUTSIDE ELEVATION OF WING

WING 4 SHOWN
WING 3 SIMILAR



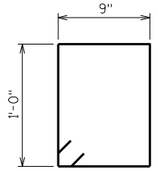
SECTION D-D

BILL OF BARS

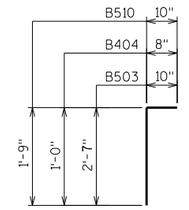
(EAST ABUTMENT)

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

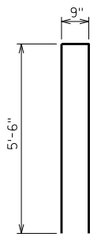
	BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
	B501	X	37	4'-2"	X		PAVING BLOCK - STIRRUP
	B502	X	20	8'-0"			PAVING BLOCK - HORIZ.
(A24)	B503	X	36	3'-4"	X		PAVING BLOCK/BACKWALL - CONCRETE MASONRY ANCHOR
(A23)	B404	X	10	1'-7"	X		MASK WALL - CONCRETE MASONRY ANCHOR
	B405	X	4	3'-5"			MASKWALL - HORIZ.
	B406	X	16	1'-8"			BEAM SEAT PEDESTAL - HORIZ.
	B407	X	16	2'-6"			BEAM SEAT PEDESTAL - HORIZ.
	B408	X	16	6'-2"			WINGS 3&4 - HORIZ.
	B609	X	4	13'-8"			WINGS 3&4 - HORIZ. - TOP
(A24)	B510	X	32	2'-6"	X		WINGS 3&4 - CONCRETE MASONRY ANCHORS
	B511	X	18	11'-6"	X		WINGS 3&4 - VERT.
(A23)	B412	X	22	6'-10"			WINGS 3&4 - CONCRETE MASONRY ANCHORS



B501



B503, B404, B510



B511

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STRUCTURES DESIGN SECTION

STRUCTURE B-39-28

DRAWN BY DDS | PLANS CK'D. BLB

ABUTMENT WING DETAILS

SHEET 5

320

STATE PROJECT NUMBER

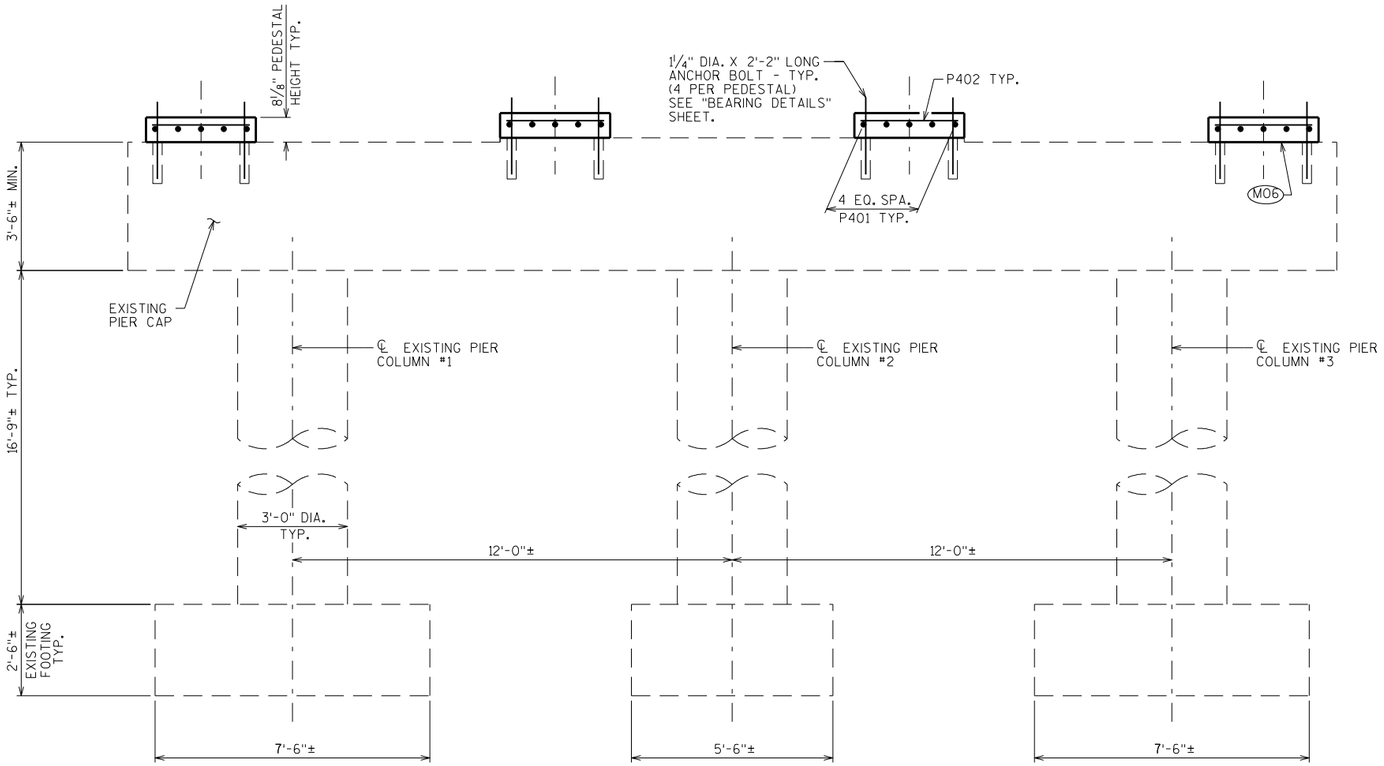
1166-07-76

8

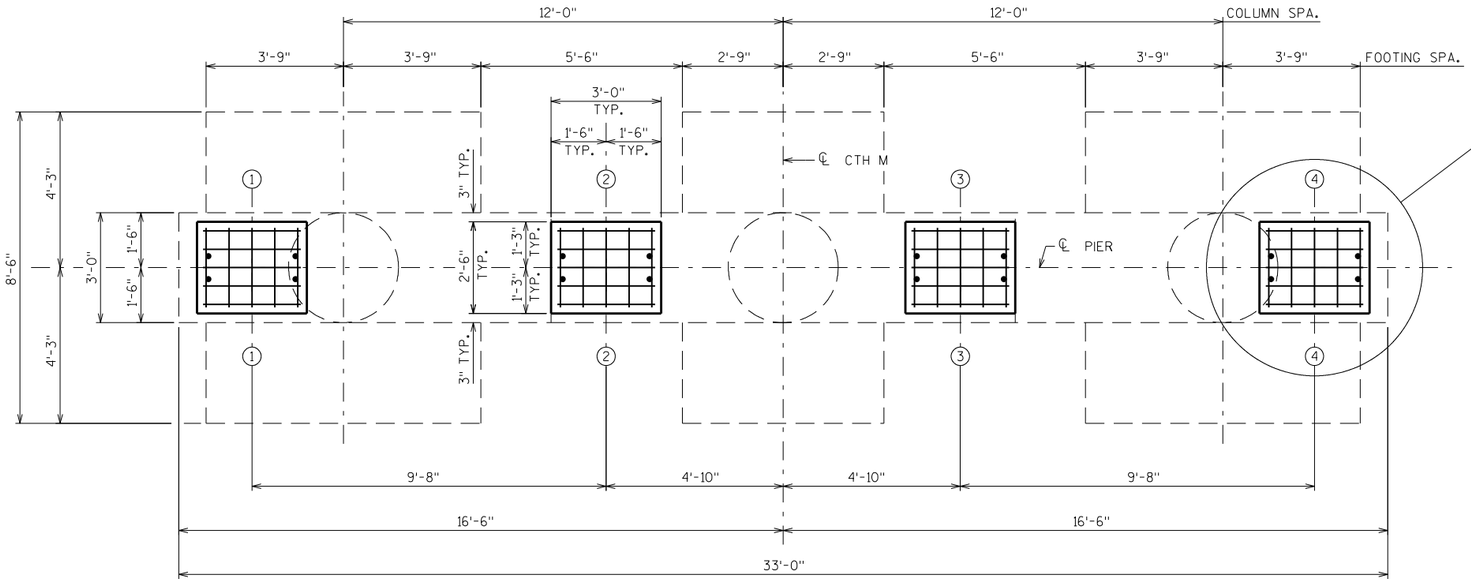
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STATE PROJECT NUMBER
1166-07-76



ELEVATION - LOOKING EAST



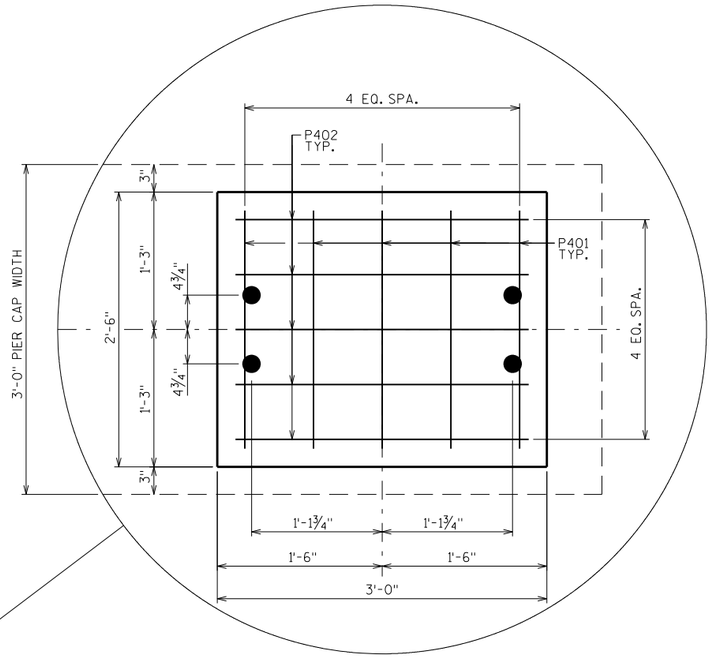
PLAN

M06 ROUGHEN SURFACE OF CONCRETE 1/4" DEEP MINIMUM AT ALL AREAS WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE.

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
P401	X	20	2'-2"			PIER PEDESTAL - HORIZ.
P402	X	20	2'-8"			PIER PEDESTAL - HORIZ.



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PIER DETAILS

SHEET 6

321

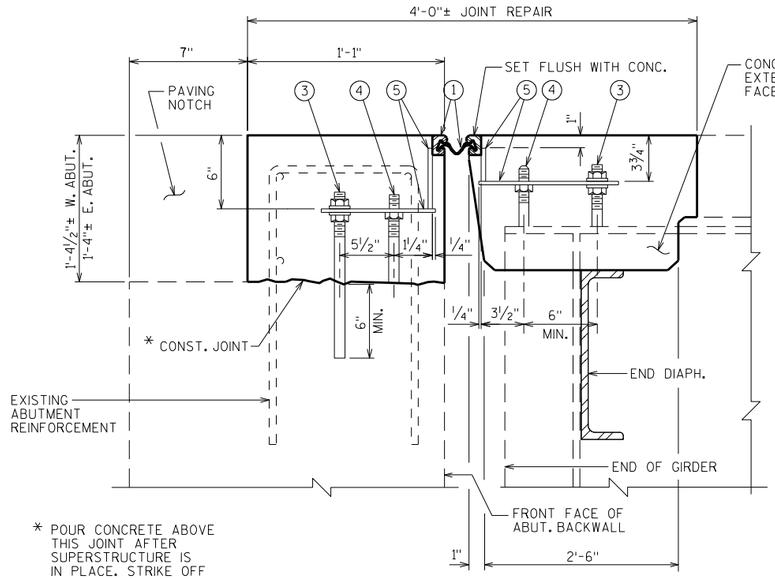
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8

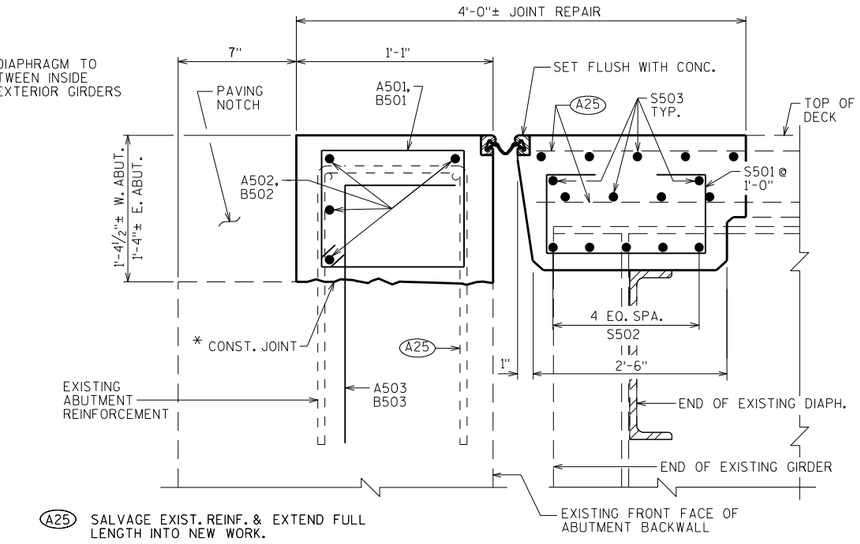
STATE PROJECT NUMBER

1166-07-76



SECTION THRU JOINT AT ABUTMENT

NORMAL TO ℄ SUBSTRUCTURE
(SHOWING EXPANSION DEVICE HARDWARE)

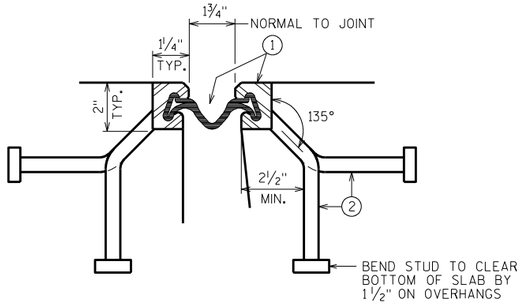


SECTION THRU JOINT AT ABUTMENT

NORMAL TO ℄ SUBSTRUCTURE
(SHOWING REINFORCING STEEL)

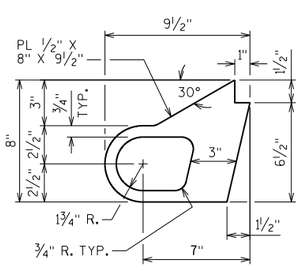
LEGEND

1. NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS. SET JOINT OPENING AT 1¾".
2. STUDS ⅝"Φ X 6⅜" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
2A. ½" THICK ANCHOR PLATE WITH ⅝"Φ ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.
3. ¾" Φ THREADED ROD WITH 2 NUTS AND PLATE WASHERS. WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.
4. ¾"Φ THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
5. FABRICATE SUPPORT FROM 3" X ½" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1½" Φ HOLE FOR NO. 3 AND 1" Φ HOLE FOR NO. 4.
6. GALVANIZED PLATE ⅜" X 1'-2" X 2'-0" LONG WITH HOLES FOR NO. 7. BEND AS SHOWN.
7. ¾"Φ X 1½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.
8. ¾"Φ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
9. ¾"Φ X 2¼" GALVANIZED THREADED COUPLING.
10. 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

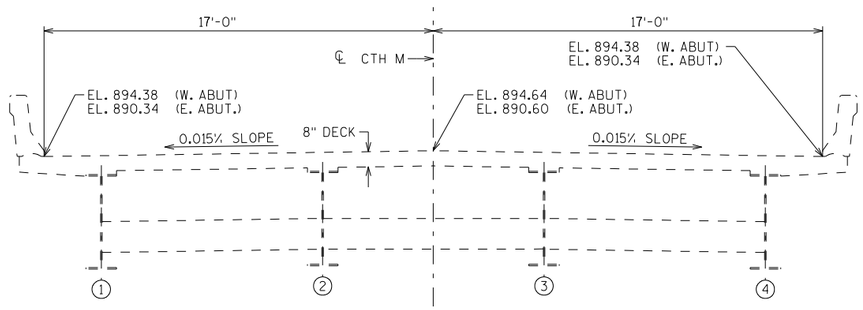


SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS

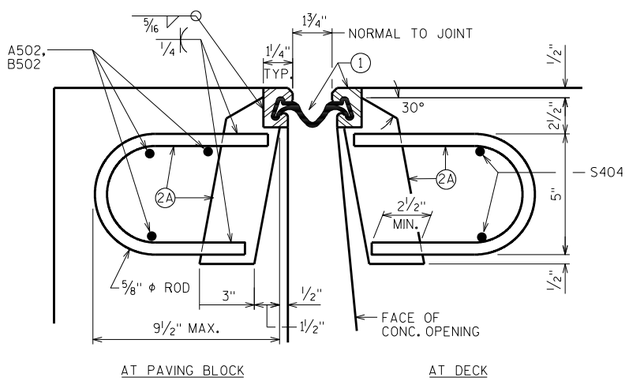


ALTERNATE STRIP SEAL ANCHOR



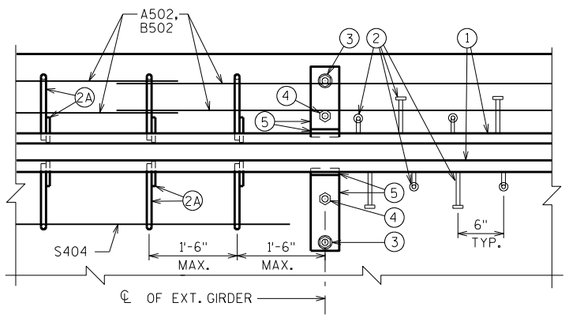
SECTION THRU ROADWAY/EXPANSION DEVICE

ELEVATIONS TAKEN AT THE FRONT FACE OF BACKWALL



SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.



PART PLAN

NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 & SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-39-28".

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STRUCTURE B-39-28

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EXPANSION DEVICE

SHEET 7

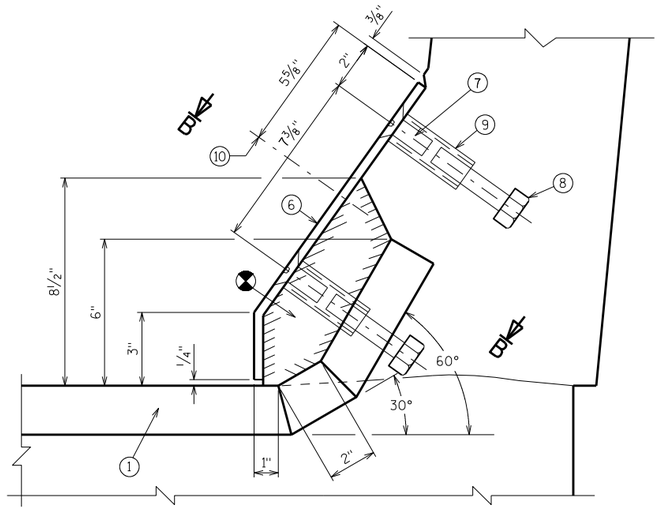
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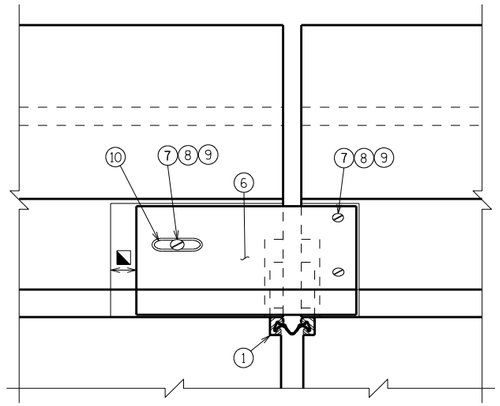
JTSS_SLPFAC
1-14

STATE PROJECT NUMBER

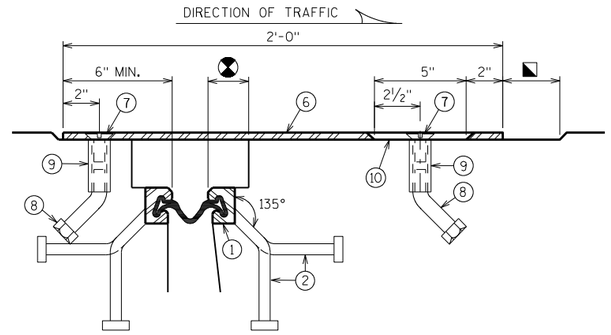
1166-07-76



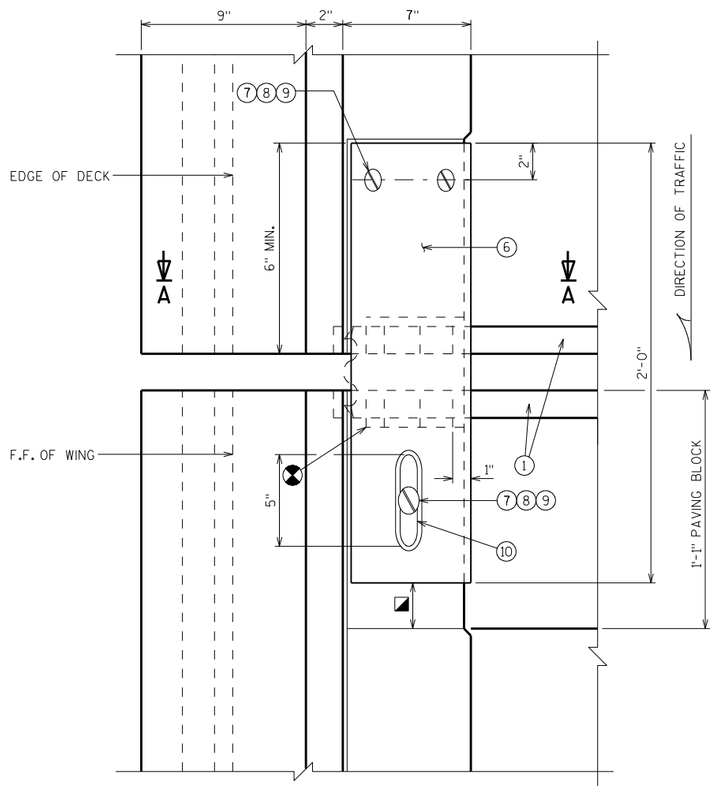
SECTION A-A



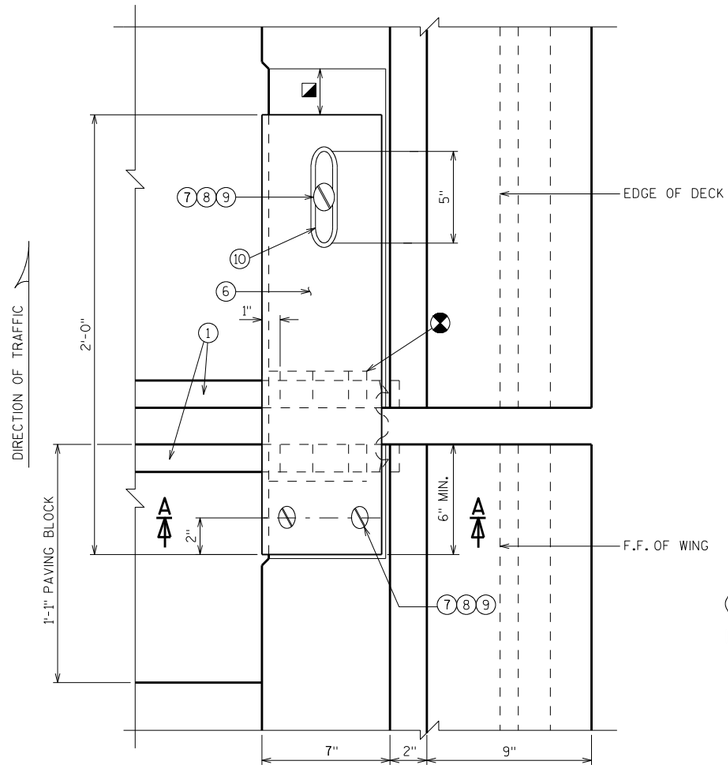
VIEW OF PARAPET PLATE FROM ROADWAY



SECTION B-B



PLAN



⊠ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

◪ JOINT OPENING DIMENSION ALONG SKEW PLUS ½".

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STRUCTURE B-39-28

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COVER PLATE DETAILS

SHEET 8

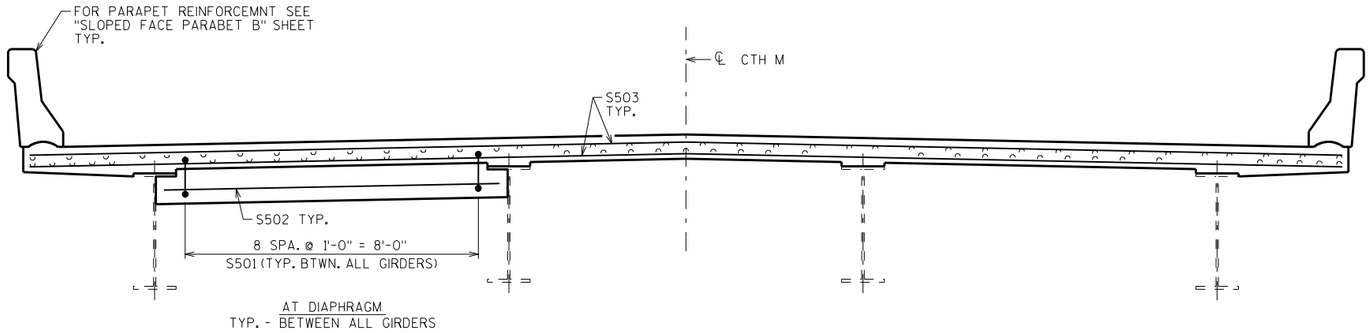
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STATE PROJECT NUMBER
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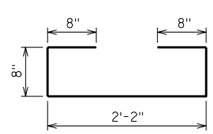


CROSS SECTION THRU SUPERSTRUCTURE AT JOINT REPAIR - LOOKING EAST

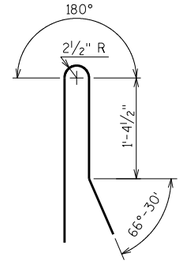
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

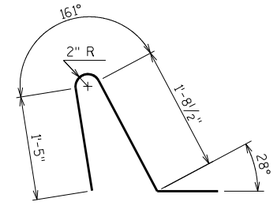
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S501	X	54	4'-4"	X		EXPANSION DEVICE - VERT. - BTWN. GIRDERS
S502	X	30	9'-2"			EXPANSION DEVICE - HORIZ. - BTWN. GIRDERS
S503	X	22	35'-10"			EXPANSION DEVICE - TRANVERSE
S404	X	12	9'-2"			EXPANSION DEVICE - HORIZ. - BTWN. GIRDERS
S505	X	20	2'-5"			PARAPET - HORIZ.
S406	X	16	4'-4"	X		PARAPET - VERT.
S407	X	16	4'-3"	X		PARAPET - VERT.



S501

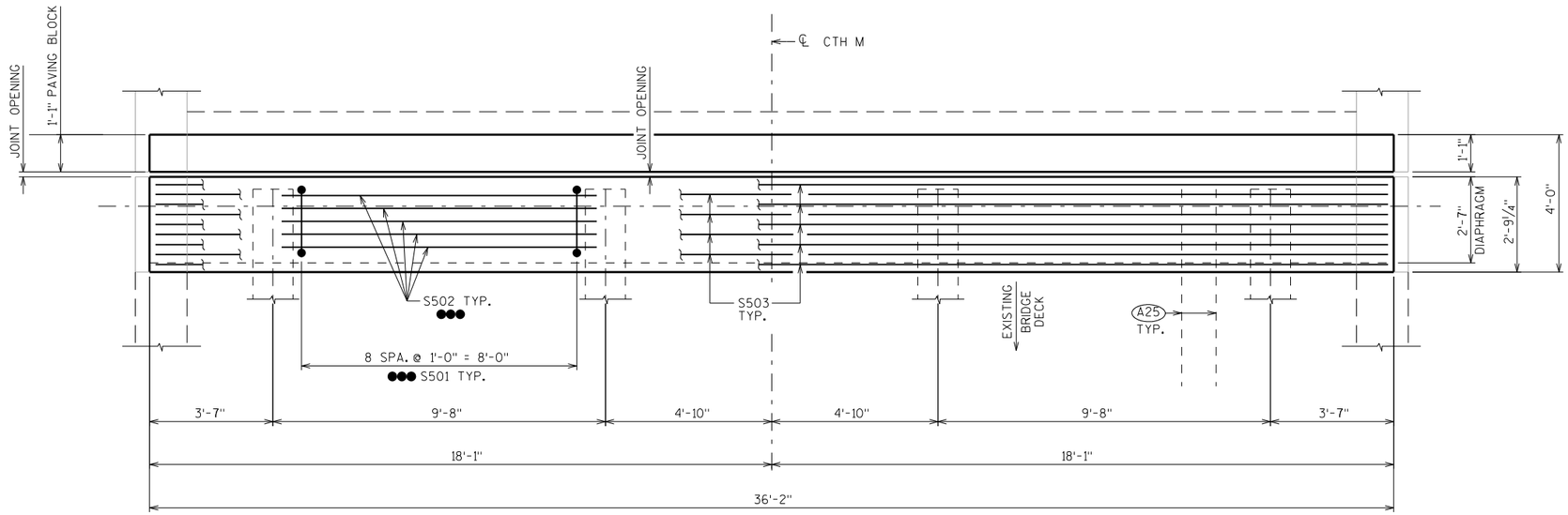


S406



S407

●●● ONLY BETWEEN GIRDERS



PLAN

A25 SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

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STRUCTURE B-39-28

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JOINT REPAIR

SHEET 9

324

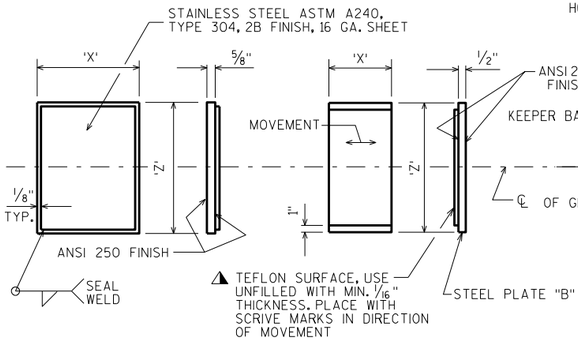
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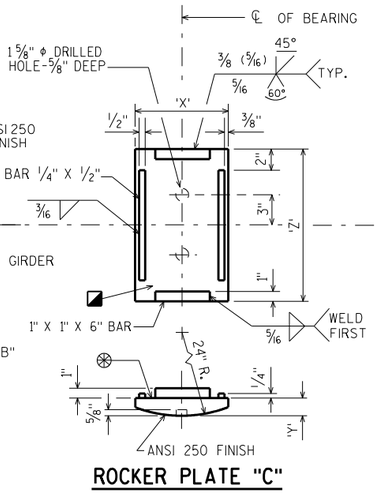
STATE PROJECT NUMBER

1166-07-76

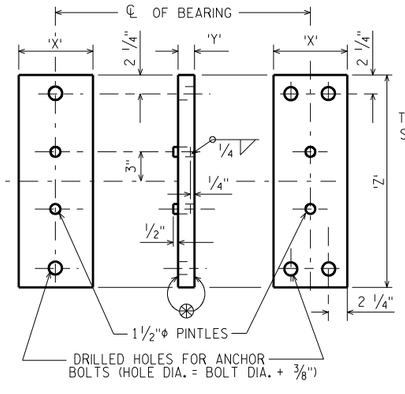


TOP PLATE "A"

TEFLON SURFACE ON PLATE "B"

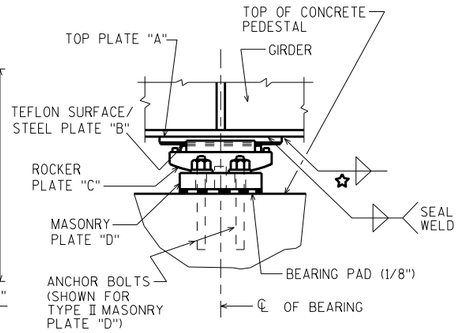


ROCKER PLATE "C"



TYPE I TYPE II

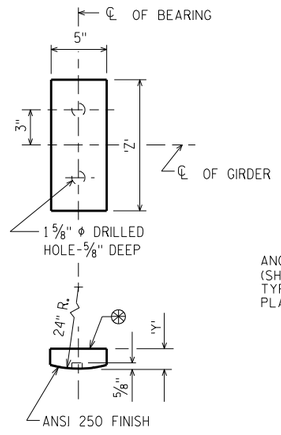
MASONRY PLATE "D"



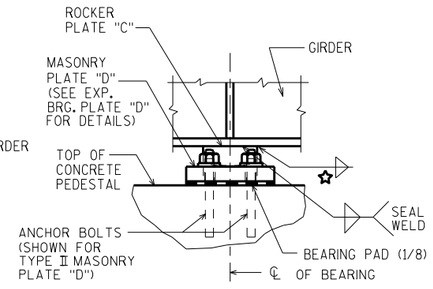
EXPANSION BEARING ASSEMBLY

EXPANSION BEARING

	PLATE "A"			PLATE "B"			PLATE "C"			PLATE "D"			PLATE "D" TYPE	ANCHOR BOLT SIZE	NO. OF BRG'S REQ'D.	LOCATION
	'X'	'Y'	'Z'	'X'	'Y'	'Z'	'X'	'Y'	'Z'	'X'	'Y'	'Z'				
EXPANSION BEARING	11"	5/8"	1'-6"	7"	1/2"	1'-6"	9"	1 5/16"	1'-8 1/4"	11"	2"	2'-4"	II	1 1/4"	8	AT ABUTMENTS
FIXED BEARING							5"	2 3/8"	1'-10"	1'-2"	2 7/8"	2'-8"	II	1 1/4"	4	AT PIER



ROCKER PLATE "C"



FIXED BEARING ASSEMBLY

FIXED BEARING

BEARING NOTES

ALL BEARINGS ARE SYMMETRICAL ABOUT ℄ OF GIRDER AND ℄ OF BEARING.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS.

CHAMFER ANCHOR BOLTS PRIOR TO THREADING.

ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. BOLT LENGTH TO BE 2'-2". PROJECT ANCHOR BOLTS, MASONRY PLATE "D" THICKNESS + 2 1/4". ABOVE TOP OF CONCRETE. EMBED ANCHOR BOLTS 1'-0" MIN. INTO EXISTING ABUTMENT CONCRETE.

CHAMFER TOP OF PINTLES 1/8". DRILL HOLES FOR ALL PINTLES IN MASONRY PLATE "D" FOR A DRIVING FIT.

ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES, BUT EXCLUDING ANCHOR BOLTS, STAINLESS STEEL SHEET, TEFLON SURFACE, PINTLES, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 50W.

STEEL PINTLES SHALL CONFORM TO ASTM A449 OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 36, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

PROVIDE 1/8" THICK BEARING PAD THE SAME SIZE AS MASONRY PLATE "D" FOR EACH BEARING.

ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES AND BEARING PADS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING ASSEMBLIES EXPANSION B-39-28" OR "BEARING ASSEMBLIES FIXED B-39-28", EACH.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153, CLASS C.

FIXED BEARINGS:
ROCKER PLATE "C" SHALL BE SHOP PAINTED WITH A WELDABLE PRIMER.
MASONRY PLATE "D" SHALL BE GALVANIZED.

EXPANSION BEARINGS:
TOP PLATE "A" AND STEEL PLATE "B" SHALL BE SHOP PAINTED. USE A WELDABLE PRIMER ON TOP PLATE "A".
ROCKER PLATE "C" AND MASONRY PLATE "D" SHALL BE GALVANIZED. DO NOT PAINT STAINLESS STEEL OR TEFLON SURFACES.

⊛ FINISH THESE SURFACES TO ANSI 250 IF 'Y' DIMENSION IS GREATER THAN 2".

◪ PROVIDE A METHOD FOR HANDLING ROCKER PLATE "C" DURING GALVANIZING.

⚠ BOND STEEL PLATE "B" AND TEFLON WITH ADHESIVE MATERIAL MEETING FEDERAL SPECIFICATION MMM-A-134, FEP FILM OR EQUAL.

AT INSTALLATION, ENSURE STAINLESS STEEL SLIDING FACE OF THE UPPER ELEMENT AND THE TFE SLIDING FACE OF THE LOWER ELEMENT HAVE THE SURFACE FINISH SPECIFIED AND ARE CLEAN AND FREE OF ALL DUST, MOISTURE, AND OTHER FOREIGN MATTER.

☆ TABLE OF FILLET WELD SIZES

MATERIAL THICKNESS OF THICKER PART JOINED.	∔ MIN. SIZE OF FILLET WELD
TO 1/2" INCLUSIVE	3/16"
OVER 1/2" TO 3/4"	1/4"
OVER 3/4" TO 1 1/2"	△ 5/16"
OVER 1 1/2" TO 2 1/4"	△ 3/8"
OVER 2 1/4" TO 6"	△ 1/2"

∔ EXCEPT THAT THE WELD SIZE SHALL NOT EXCEED THE THICKNESS OF THE THINNER PART JOINED.

△ MIN. PASS SIZE IS 5/16"

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STRUCTURES DESIGN SECTION

STRUCTURE B-39-28

DRAWN BY DDS | PLANS CK'D. BLB

BEARING DETAILS

SHEET 10

325

FT 55 BRTFLON 7-10

8

8

LEVELS 1 2 3 4 5 6

SCALE = .089

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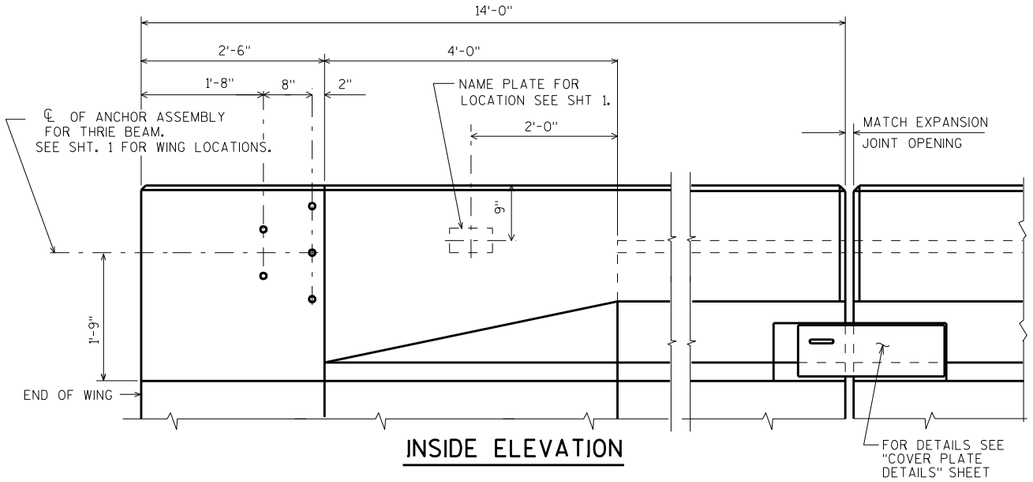
BILL OF BARS

FOR ABUTMENT PARAPETS

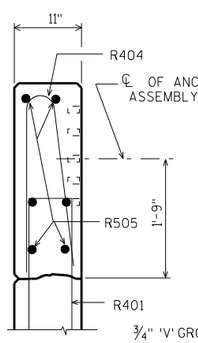
THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	NO. REQ'D. WEST ABUT.	NO. REQ'D. EAST ABUT.	LENGTH	BENT	LOCATION
R401	30	30	4-9	X	WINGS STIRRUPS
R402	8	8	3-1	X	WINGS
R403	24	24	4-9	X	WINGS STIRRUPS
R404	30	30	4-9	X	WINGS
R505	12	12	6-2		WINGS
R406	24	24	4-10	X	WINGS
R507	10	10	9-3		WINGS

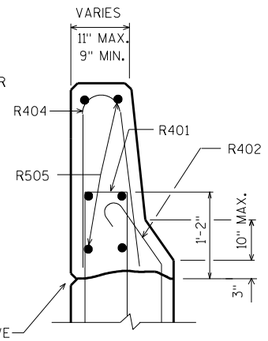
EPOXY COAT ALL PARAPET REINF.



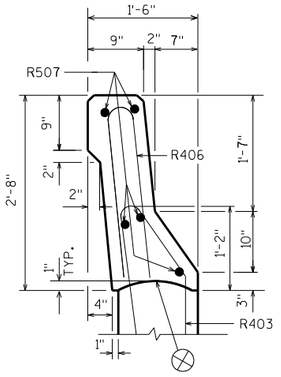
INSIDE ELEVATION



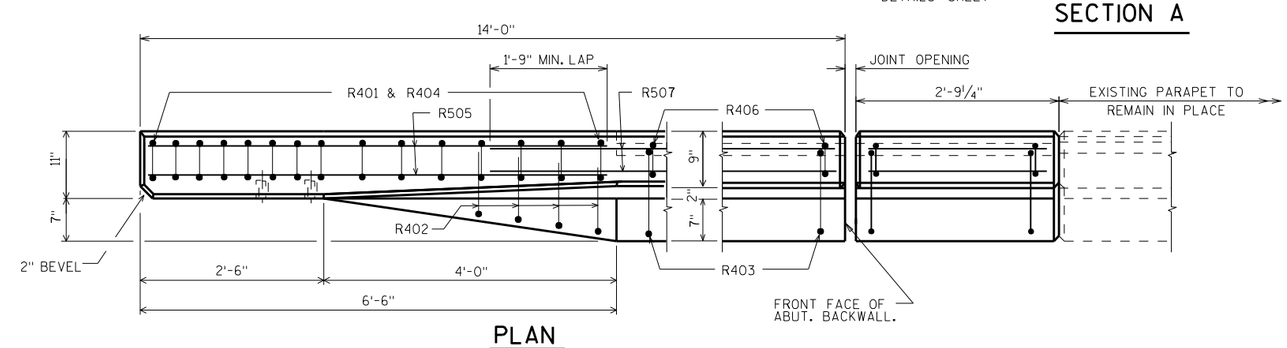
SECTION A



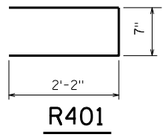
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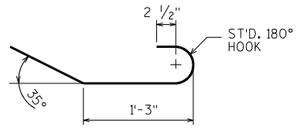
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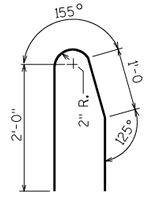
PLAN



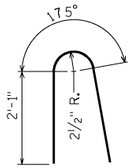
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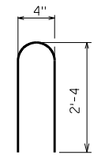
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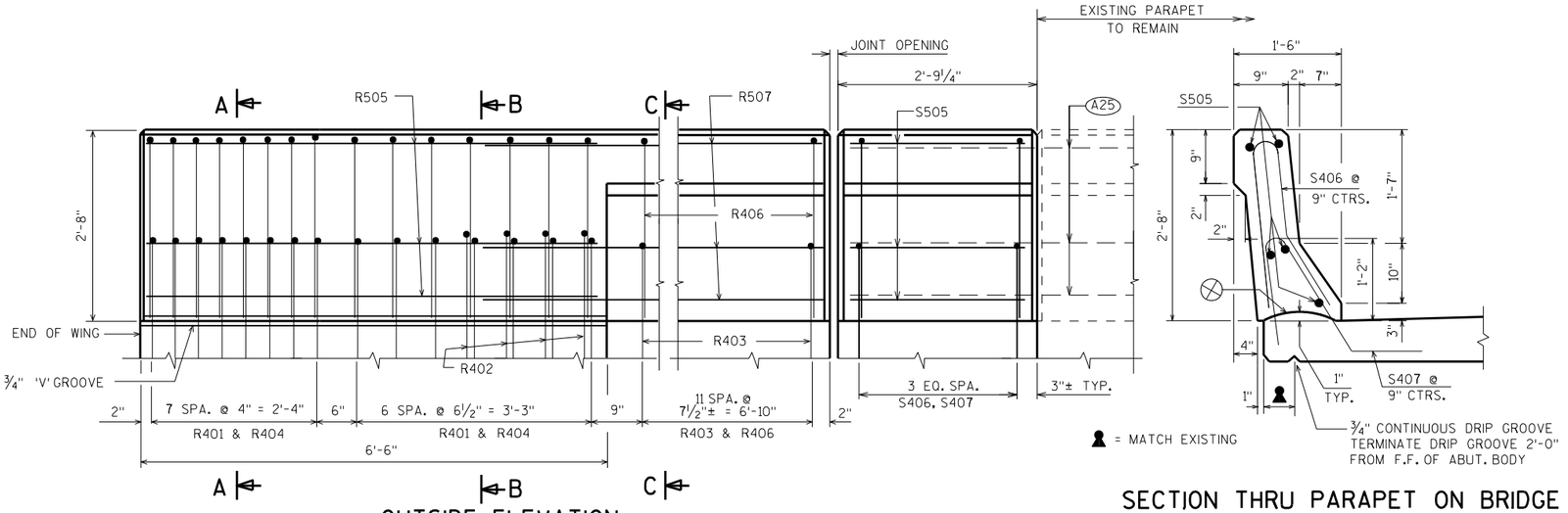
R403



R404



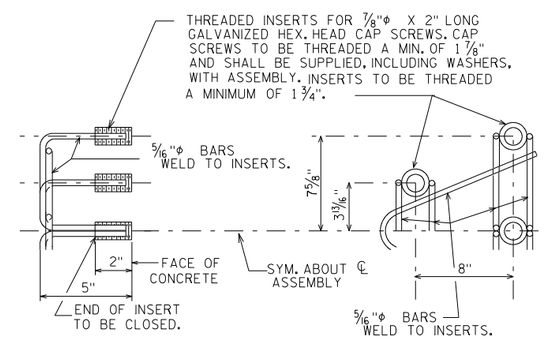
R406



OUTSIDE ELEVATION

= MATCH EXISTING

SECTION THRU PARAPET ON BRIDGE



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX. HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

A25 SALVAGE EXIST. REINF. AND EXTEND FULL LENGTH INTO NEW WORK.

CONST. JOINT - STRIKE OFF AS SHOWN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-28

DRAWN BY DDS | PLANS CK'D. BLB

SLOPED FACE PARAPET "B"

SHEET 11

326

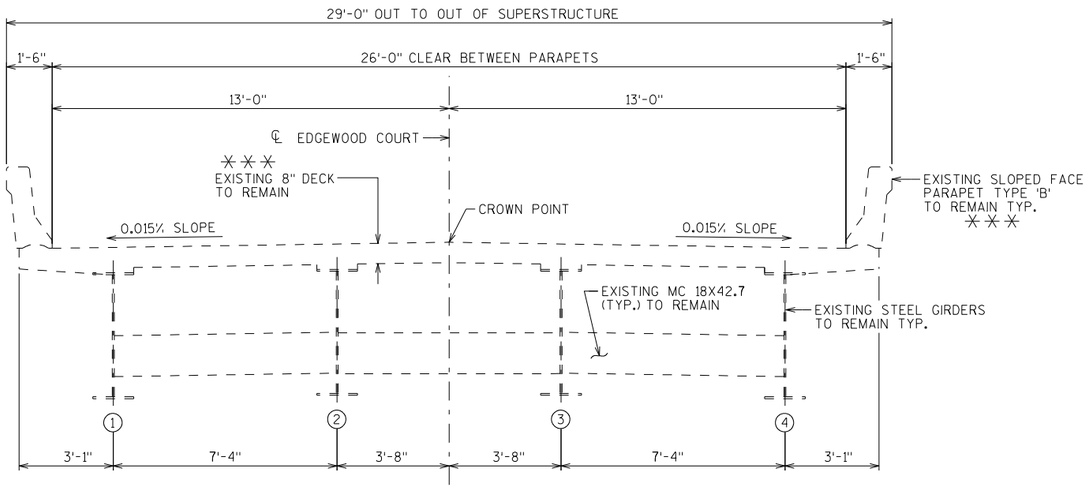
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8

SCALE = 1

PPTB
07.11

STATE PROJECT NUMBER
1166-07-76



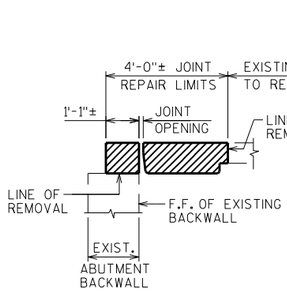
CROSS SECTION THRU ROADWAY - LOOKING EAST

LIST OF DRAWINGS

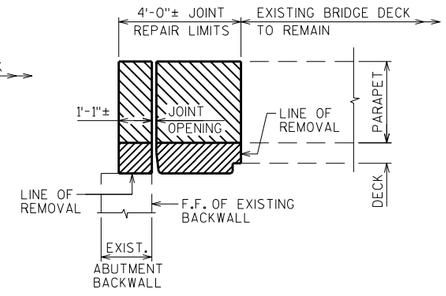
1. BRIDGE RAISING & REPAINTING
2. QUANTITIES
3. ABUTMENT REMOVAL DETAILS
4. ABUTMENT DETAILS
5. ABUTMENT WING DETAILS
6. PIER DETAILS
7. EXPANSION DEVICE
8. COVER PLATE DETAILS
9. JOINT REPAIR
10. BEARING DETAILS
11. SLOPED FACE PARAPET 'B'

BENCH MARK

NO.	DESCRIPTION	ELEV.
1	ALUMINUM CAP ON THE SW WING WALL OF STRUCTURE B-39-29	900.66
2	60D SPIKE IN A 14" RED PINE 50' M/L NORTH OF EDGEWOOD COURT, WEST OF DRIVE TO HOUSE #W6402	878.11



SECTION A-A



SECTION B-B

(PARAPET REMOVAL ON WINGS NOT SHOWN FOR CLARITY)

GENERAL NOTES (CONTINUED)

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF BOTH ABUTMENTS BELOW EXPANSION DEVICES. POWER WASH AND ADEQUATELY DRY SURFACES BEFORE APPLICATION. WORK SHALL BE INCIDENTAL TO JOINT REPAIR.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR 1987.

DESIGN DATA

LIVE LOAD:

INVENTORY RATING; HS-20
OPERATIONAL RATING; HS-34
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 250 KIPS.

MATERIAL PROPERTIES

CONCRETE MASONRY SLAB — f'c = 4,000 P.S.I. ALL OTHER — f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60 ——— fy = 60,000 P.S.I.

GENERAL NOTES

IMPROVEMENTS INCLUDE BRIDGE JACKING TO OBTAIN MINIMUM VERTICAL CLEARANCE, REPAINTING EXISTING STEEL GIRDERS, REPLACING EXPANSION JOINTS AND REPLACING BEARINGS.

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.

ALL EXPOSED STEEL SURFACES UNDERNEATH THE BRIDGE ARE TO BE CLEANED AND PAINTED. THESE SURFACES INCLUDE GIRDERS, INTERMEDIATE DIAPHRAGMS AND BEARING CONNECTIONS. THE COLOR FOR FINISH COATING SHALL BE LIGHT GRAY (FEDERAL COLOR #26293).

ANY EXCAVATION NECESSARY TO COMPLETE THE JOINT REPAIR AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "JOINT REPAIR".

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TOP OF NEW DECK EXPOSED CONCRETE.

AFTER "CLEANING PARAPETS" IS COMPLETED, A "PIGMENTED PROTECTIVE SURFACE TREATMENT" SHALL BE APPLIED TO THE FRONT FACE AND THE TOP OF BOTH THE NEW AND EXISTING PARAPETS, INCLUDING THE PARAPETS ON ABUTMENT WINGS.

THE "PIGMENTED PROTECTIVE SURFACE TREATMENT" COLOR IS TO BE LIGHT GRAY AS DETERMINED AND APPROVED BY THE FIELD ENGINEER PRIOR TO IT'S APPLICATION.

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

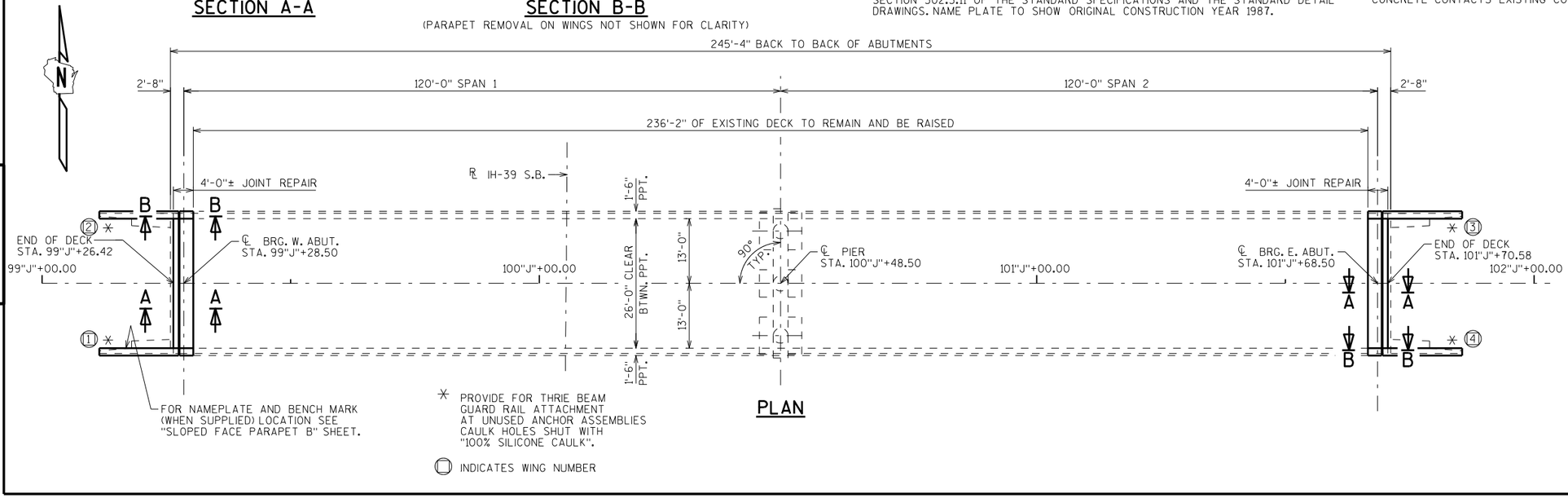
ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP MIN. SAWCUT.

CONTRACTOR TO VERIFY THAT RAISED GIRDERS WILL PROVIDE A MINIMUM VERTICAL CLEARANCE OF 16'-9" OVER IH 39 DRIVING LANES AND SHOULDERS PRIOR TO MODIFYING THE ABUTMENT AND PIER BEAM SEATS.

THE SLOPE PAVING OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE RESEALED PER BID ITEM "RESEAL CRUSHED AGGREGATE SLOPE PAVING".

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE PAID FOR UNDER BID ITEM "EXPANSION DEVICE B-39-29".

ROUGHEN SURFACE OF CONCRETE 1/4" DEEP MINIMUM AT ALL AREAS WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE.



PLAN

STRUCTURE DESIGN CONTACTS:

BRANDAN BURGER (608) 267-4019
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 1/21/15
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-39-29

EDGEWOOD COURT OVER IH-39

COUNTY	TOWN ~~CITY/VILLAGE~~
MARQUETTE	WESTFIELD AND HARRIS

DESIGN SPEC.	
REHABILITATION	N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
BLB	APC	DDS	BLB

BRIDGE RAISING & REPAINTING

SHEET 1 OF 11

327

I.D. 1166-07-06C

DATE: OCT. 2014

SCALE = 12

STATE PROJECT NUMBER
1166-07-76

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST ABUT.	PIER	EAST ABUT.	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 100"J"+48.50	LS	——	——	——	——	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-39-29	LS	——	——	——	——	1
210.0100	BACKFILL STRUCTURE	CY	——	50	——	50	100
502.0100	CONCRETE MASONRY BRIDGES	CY	7	9	1	9	26
502.3100	EXPANSION DEVICE B-39-29	LS	——	——	——	——	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY	24	——	——	——	24
502.3210.S	PIGMENTED PROTECTIVE SURFACE TREATMENT	SY	214	——	——	——	214
502.5002	MASONRY ANCHORS TYPE L NO. 4 BARS	EACH	——	32	——	32	64
502.5005	MASONRY ANCHORS TYPE L NO. 5 BARS	EACH	——	76	——	76	152
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	1,240	1,590	65	1,605	4,500
506.5000	BEARING ASSEMBLIES FIXED B-39-29	EACH	——	——	4	——	4
506.6000	BEARING ASSEMBLIES EXPANSION B-39-29	EACH	——	4	——	4	8
506.7050.S	REMOVING BEARINGS B-39-29	EACH	——	4	4	4	12
506.7060.S	BRIDGE JACKING B-39-29	LS	——	——	——	——	1
509.1000	JOINT REPAIR	SY	——	13	——	13	26
509.9050.S	CLEANING PARAPETS	LF	474	——	——	——	474
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	——	10	——	10	20
517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-39-29	LS	——	——	——	——	1
517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-39-29	LS	——	——	——	——	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1	——	——	——	1
604.9015.S	RESEAL CRUSHED AGGREGATE SLOPE PAVING	SY	——	105	——	100	205
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	——	2	——	2	4
	NON-BID ITEMS						
	BRIDGE SEAT PROTECTION	LS	——	——	——	——	1
	FILLER	SIZE	——	——	——	——	1/2" & 3/4"

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-29

DRAWN BY DDS | PLANS CK'D. BLB

QUANTITIES

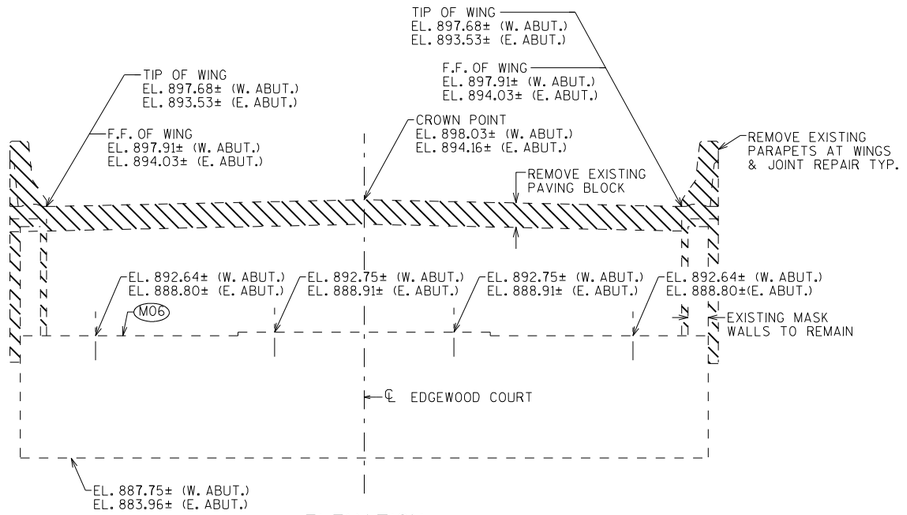
SHEET 2

328

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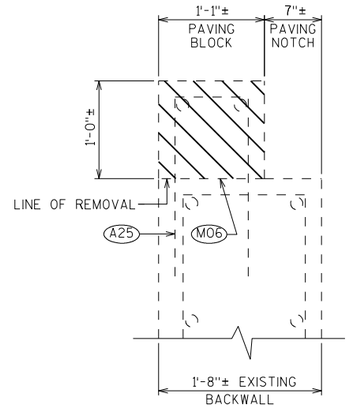
STATE PROJECT NUMBER

1166-07-76

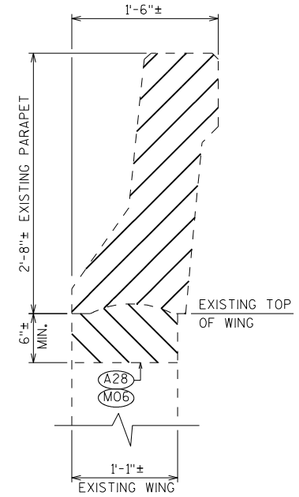


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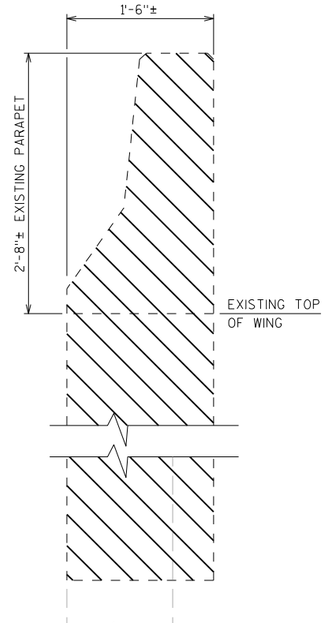
WEST ABUTMENT - LOOKING WEST
EAST ABUTMENT - LOOKING EAST



SECTION A-A



SECTION B-B

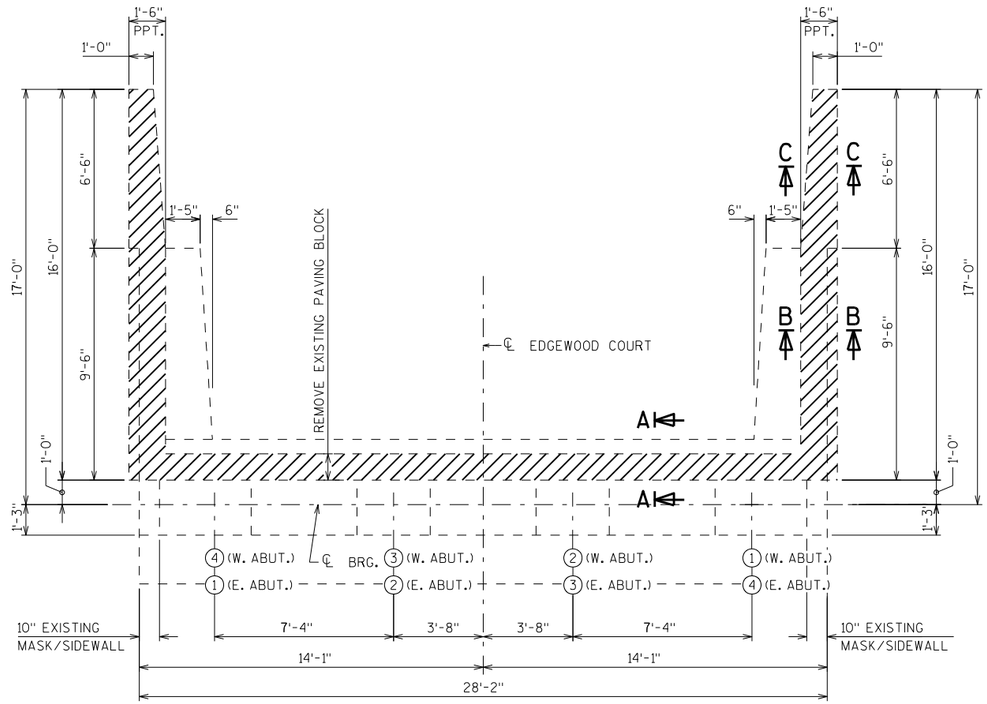


SECTION C-C

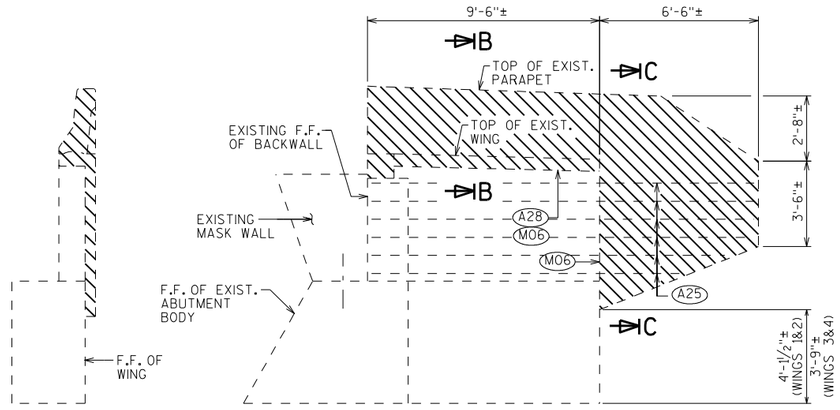
A25 SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

A28 EXIST. WINGS. REMOVE A MIN. OF 6" BELOW TOP OF EXISTING WING.

M06 ROUGHEN SURFACE OF CONCRETE 1/4" DEEP MINIMUM AT ALL AREAS WHERE NEW CONC. CONTACTS EXISTING CONCRETE.



PLAN



SECTION THRU WING

ELEVATION OUTSIDE OF WING

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-29

DRAWN BY DDS | PLANS CK'D. BLB

ABUTMENT REMOVAL DETAILS

SHEET 3

329

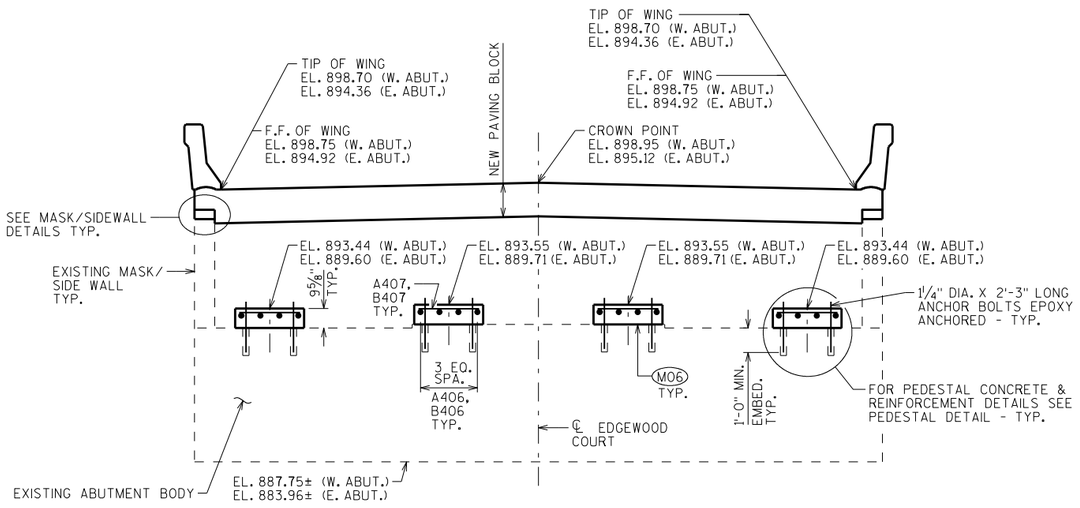
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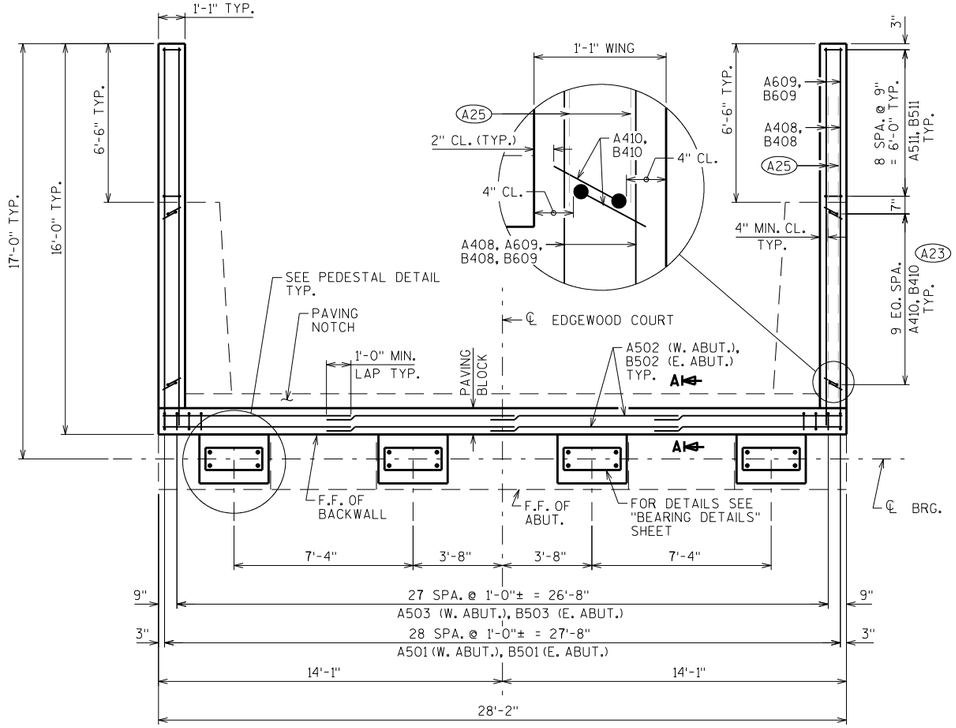
STATE PROJECT NUMBER

1166-07-76



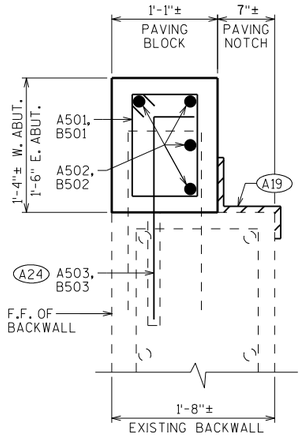
ELEVATION

WEST ABUTMENT - LOOKING WEST
EAST ABUTMENT - LOOKING EAST

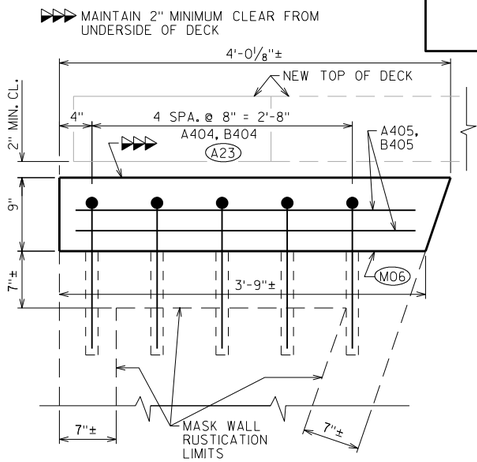


PLAN

TYP. - BOTH ABUTMENTS

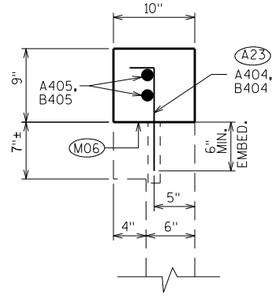


SECTION A-A



OUTSIDE ELEVATION MASK/SIDE WALL

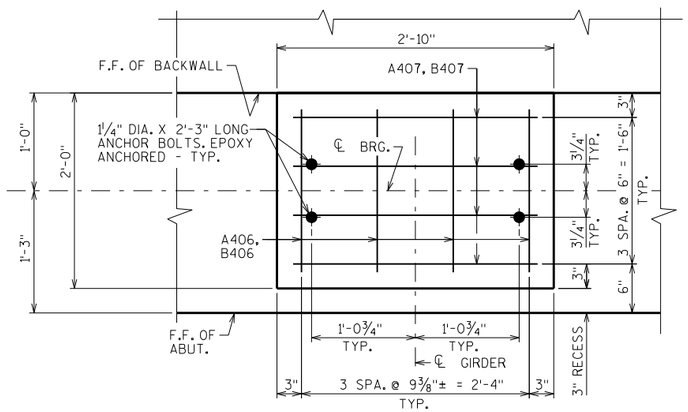
TYP.



SECTION THRU MASK/SIDE WALL

TYP.

MASK/SIDE WALL DETAILS



PEDESTAL DETAIL

TYP.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A23) MASONRY ANCHORS TYPE L NO. 4 BARS, EMBED 6" IN CONCRETE. TURN HORIZONTAL LEG AS NECESSARY TO FIT.

(A24) MASONRY ANCHORS TYPE L NO. 5 BARS, EMBED 1'-6" IN CONCRETE. TURN HORIZONTAL LEG AS NECESSARY TO FIT.

(A25) SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

(M06) ROUGHEN SURFACE OF CONCRETE 1/4" DEEP MINIMUM AT ALL AREAS WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-29

DRAWN BY DDS | PLANS CK'D. BLB

ABUTMENT DETAILS

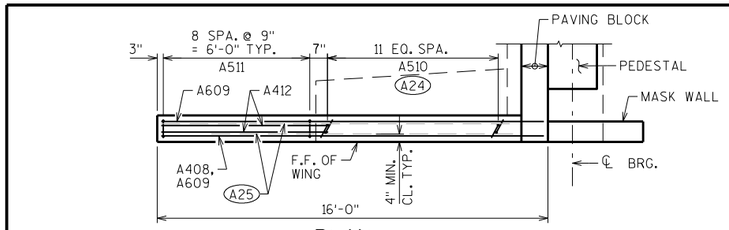
SHEET 4

330

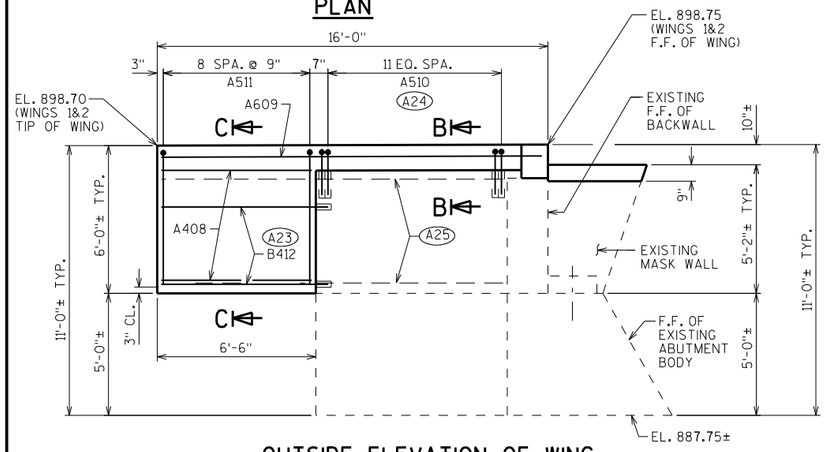
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8

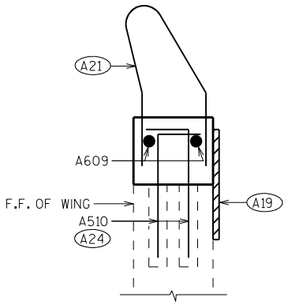


PLAN



OUTSIDE ELEVATION OF WING

WING 1 SHOWN
WING 2 SIMILAR



SECTION B-B

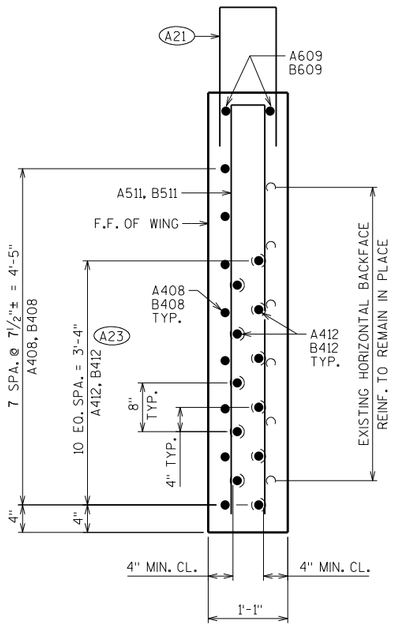
(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A21) FOR PPT. BARS & DIMENSION SEE "SLOPED FACE PARAPET B" SHEET.

(A23) MASONRY ANCHORS TYPE L NO. 4 BARS, EMBED 6" IN CONCRETE. TURN HORIZ. LEG AS NECESSARY TO FIT.

(A24) MASONRY ANCHORS TYPE L NO. 5 BARS, EMBED 1'-6" IN CONCRETE. TURN HORIZ. LEG AS NECESSARY TO FIT.

(A25) SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.



SECTION C-C

STATE PROJECT NUMBER

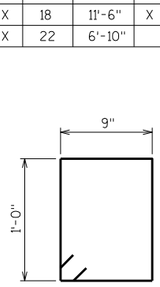
1166-07-76

BILL OF BARS

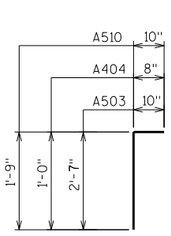
(WEST ABUTMENT)

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

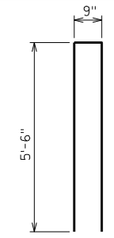
	BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
	A501	X	29	4'-2"	X		PAVING BLOCK - STIRRUP
	A502	X	16	7'-9"			PAVING BLOCK - HORIZ.
(A24)	A503	X	28	3'-4"	X		PAVING BLOCK/BACKWALL - CONCRETE MASONRY ANCHOR
(A23)	A404	X	10	1'-7"	X		MASK WALL - CONCRETE MASONRY ANCHOR
	A405	X	4	3'-6"			MASKWALL - HORIZ.
	A406	X	16	1'-8"			BEAM SEAT PEDESTAL - HORIZ.
	A407	X	16	2'-6"			BEAM SEAT PEDESTAL - HORIZ.
	A408	X	16	6'-2"			WINGS 1&2 - HORIZ.
	A609	X	4	15'-8"			WINGS 1&2 - HORIZ. - TOP
(A24)	A510	X	48	2'-6"	X		WINGS 1&2 - CONCRETE MASONRY ANCHORS
	A511	X	18	11'-6"	X		WINGS 1&2 - VERT.
(A23)	A412	X	22	6'-10"			WINGS 1&2 - CONCRETE MASONRY ANCHORS



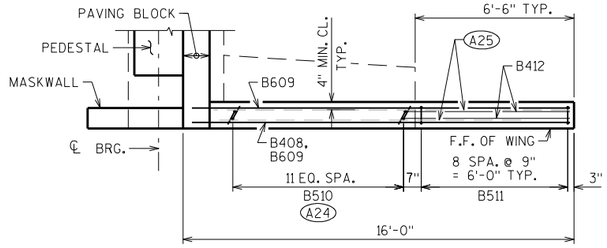
A501



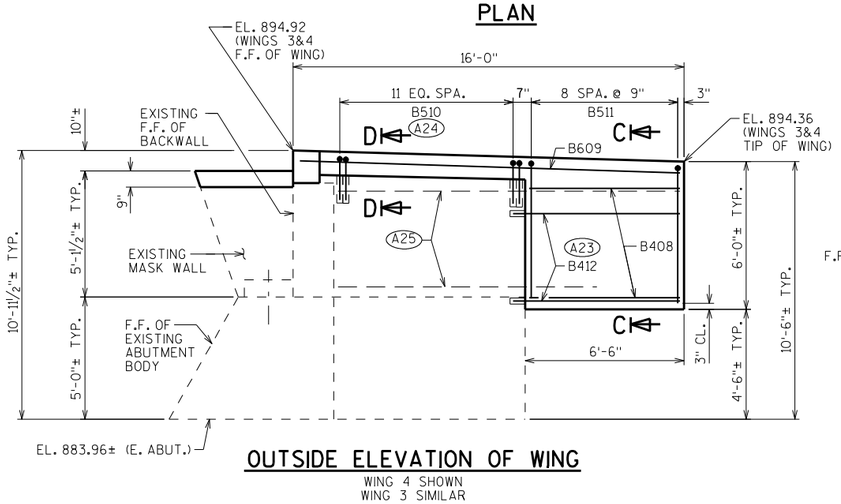
A503, A404, A510



A511

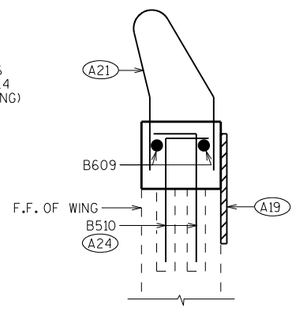


PLAN



OUTSIDE ELEVATION OF WING

WING 4 SHOWN
WING 3 SIMILAR



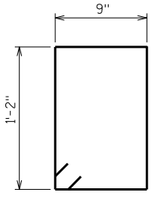
SECTION D-D

BILL OF BARS

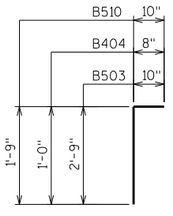
(EAST ABUTMENT)

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

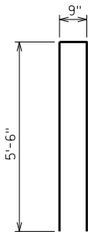
	BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
	B501	X	29	4'-6"	X		PAVING BLOCK - STIRRUP
	B502	X	16	7'-9"			PAVING BLOCK - HORIZ.
(A24)	B503	X	28	3'-6"	X		PAVING BLOCK/BACKWALL - CONCRETE MASONRY ANCHOR
(A23)	B404	X	10	1'-7"	X		MASK WALL - CONCRETE MASONRY ANCHOR
	B405	X	4	3'-6"			MASKWALL - HORIZ.
	B406	X	16	1'-8"			BEAM SEAT PEDESTAL - HORIZ.
	B407	X	16	2'-6"			BEAM SEAT PEDESTAL - HORIZ.
	B408	X	16	6'-2"			WINGS 3&4 - HORIZ.
	B609	X	4	15'-8"			WINGS 3&4 - HORIZ. - TOP
(A24)	B510	X	48	2'-6"	X		WINGS 3&4 - CONCRETE MASONRY ANCHORS
	B511	X	18	11'-6"	X		WINGS 3&4 - VERT.
(A23)	B412	X	22	6'-10"			WINGS 3&4 - CONCRETE MASONRY ANCHORS



B501



B503, B404, B510



B511

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STRUCTURES DESIGN SECTION

STRUCTURE B-39-29

DRAWN BY DDS | PLANS CK'D. BLB

ABUTMENT WING DETAILS

SHEET 5

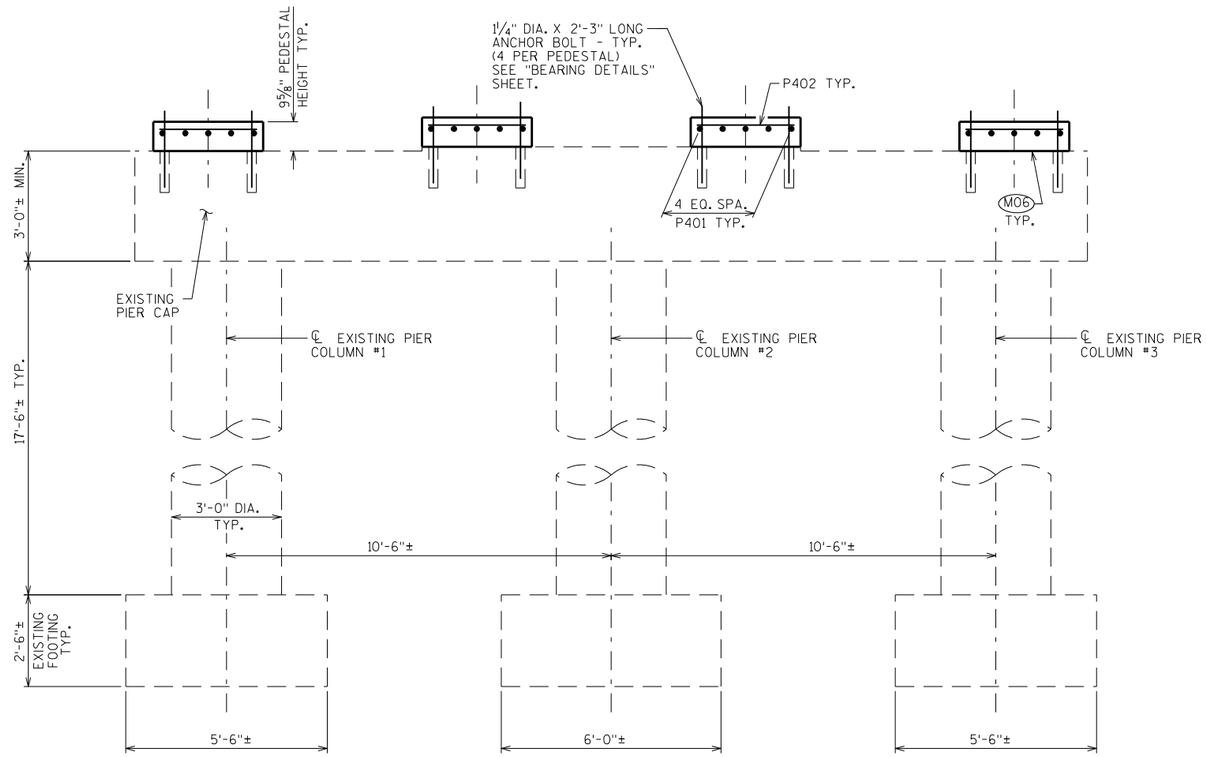
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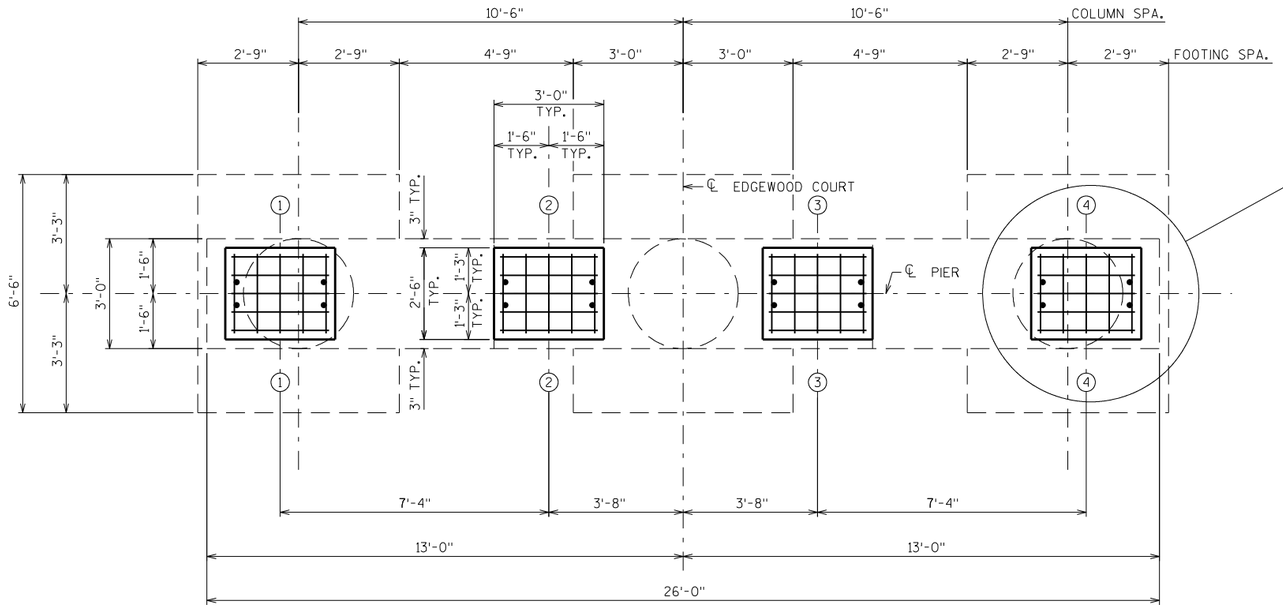
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8

STATE PROJECT NUMBER
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ELEVATION - LOOKING EAST



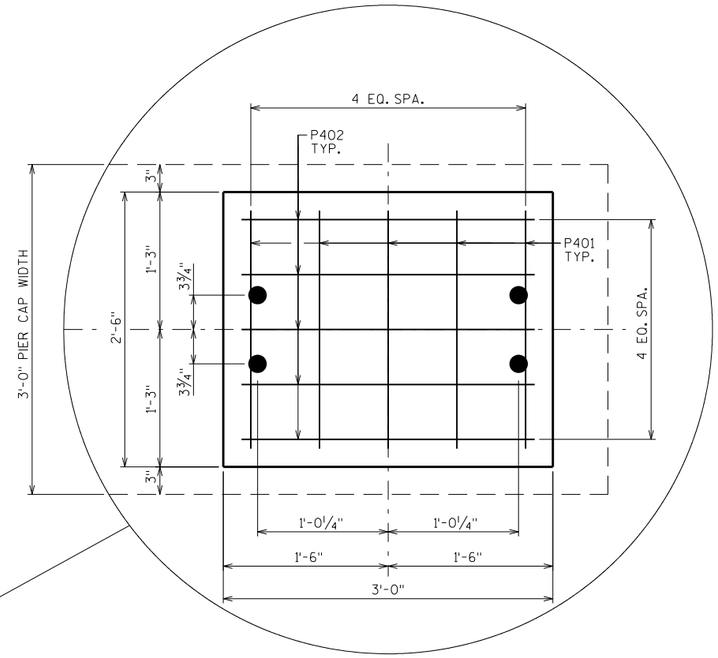
PLAN

M06 ROUGHEN SURFACE OF CONCRETE 1/4" DEEP MINIMUM AT ALL AREAS WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE.

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
P401	X	20	2'-2"			PIER PEDESTAL - HORIZ.
P402	X	20	2'-8"			PIER PEDESTAL - HORIZ.



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STRUCTURE B-39-29

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PIER DETAILS

SHEET 6

332

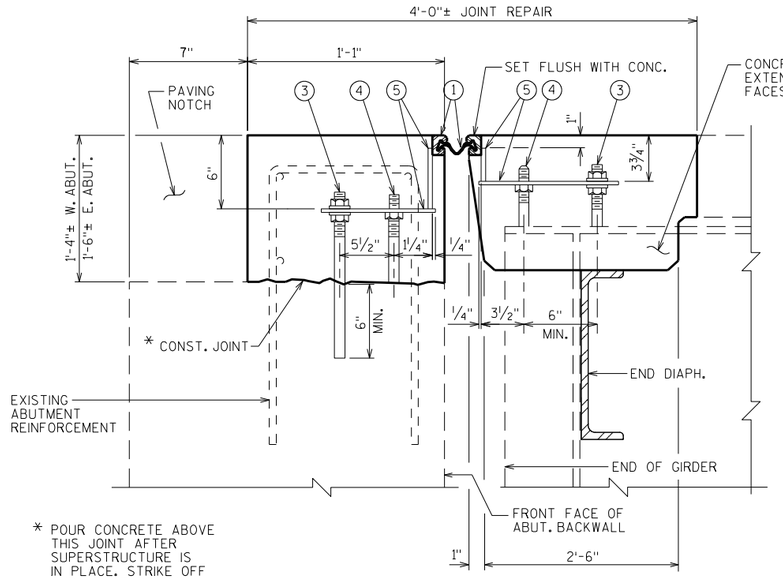
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8

STATE PROJECT NUMBER

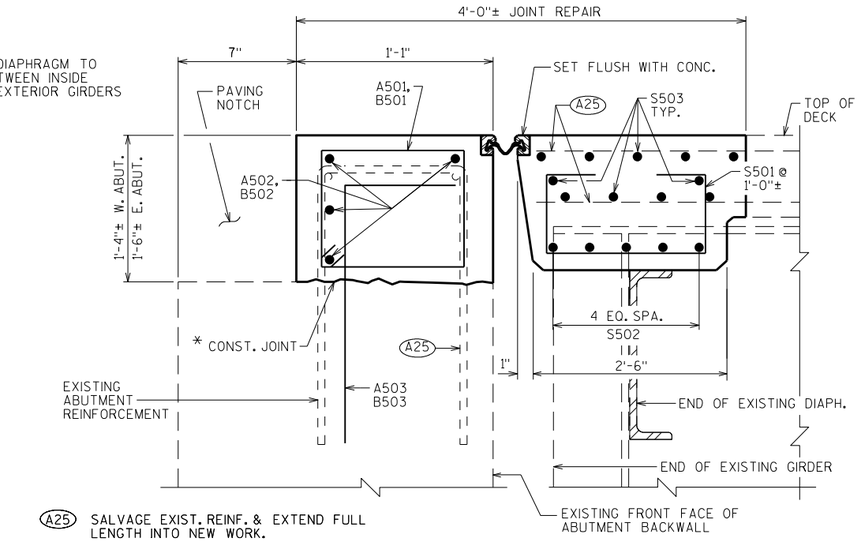
1166-07-76



* POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.

SECTION THRU JOINT AT ABUTMENT

NORMAL TO ℄ SUBSTRUCTURE
(SHOWING EXPANSION DEVICE HARDWARE)



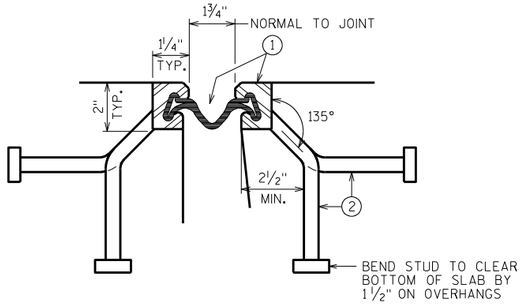
(A25) SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

SECTION THRU JOINT AT ABUTMENT

NORMAL TO ℄ SUBSTRUCTURE
(SHOWING REINFORCING STEEL)

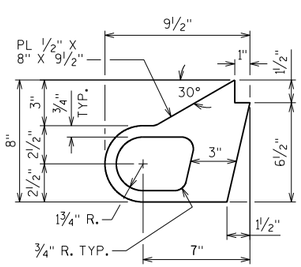
LEGEND

1. NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS. SET JOINT OPENING AT 1¾".
2. STUDS ⅝"Φ X 6⅜" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
2A. ½" THICK ANCHOR PLATE WITH ⅝"Φ ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.
3. ¾" Φ THREADED ROD WITH 2 NUTS AND PLATE WASHERS. WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.
4. ¾"Φ THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
5. FABRICATE SUPPORT FROM 3" X ½" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1½" Φ HOLE FOR NO. 3 AND 1" Φ HOLE FOR NO. 4.
6. GALVANIZED PLATE ⅜" X 1'-2" X 2'-0" LONG WITH HOLES FOR NO. 7. BEND AS SHOWN.
7. ¾"Φ X 1½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.
8. ¾"Φ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
9. ¾"Φ X 2¼" GALVANIZED THREADED COUPLING.
10. 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

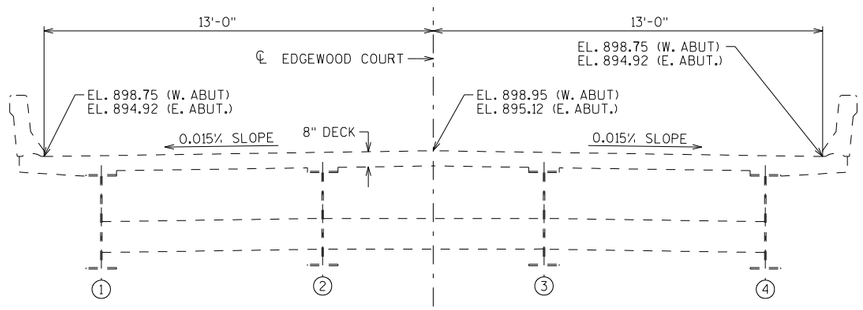


SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS

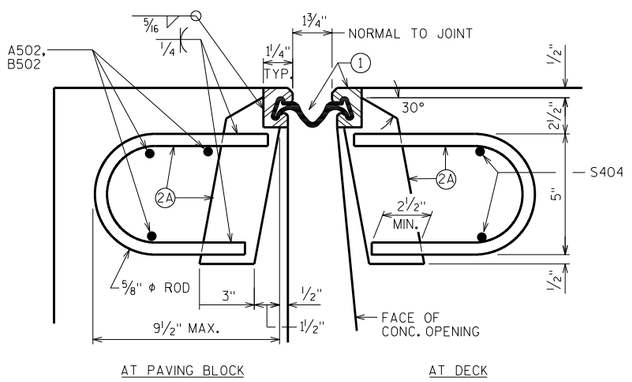


ALTERNATE STRIP SEAL ANCHOR



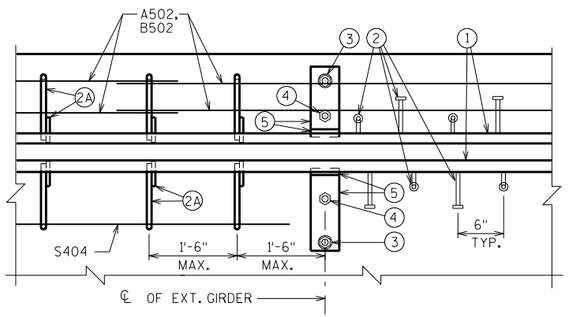
SECTION THRU ROADWAY/EXPANSION DEVICE

ELEVATIONS TAKEN AT THE FRONT FACE OF BACKWALL



SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.



PART PLAN

NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 & SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-39-29".

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STRUCTURES DESIGN SECTION

STRUCTURE B-39-29

DRAWN BY DDS | PLANS CK'D. BLB

EXPANSION DEVICE

SHEET 7

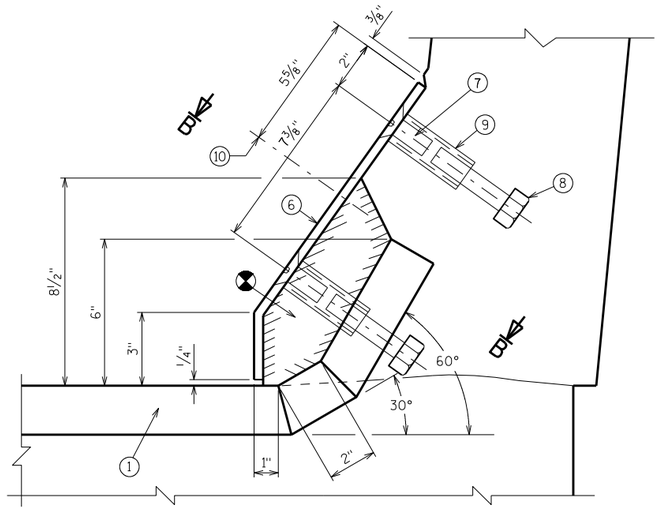
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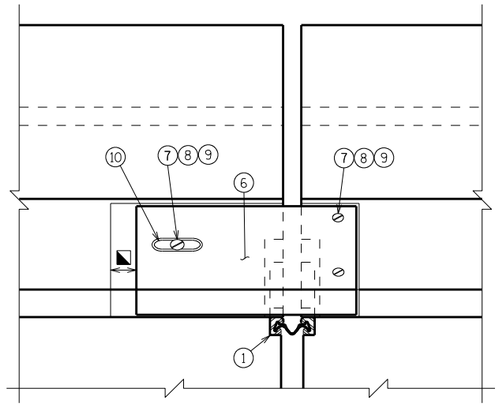
JTSS_SLPFAC
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STATE PROJECT NUMBER

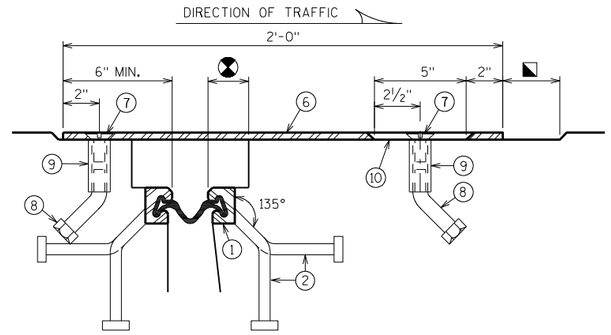
1166-07-76



SECTION A-A



VIEW OF PARAPET PLATE FROM ROADWAY



SECTION B-B

PLAN

BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

JOINT OPENING DIMENSION ALONG SKEW PLUS ½".

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STRUCTURE B-39-29

DRAWN BY DDS | PLANS CK'D. BLB

COVER PLATE DETAILS

SHEET 8

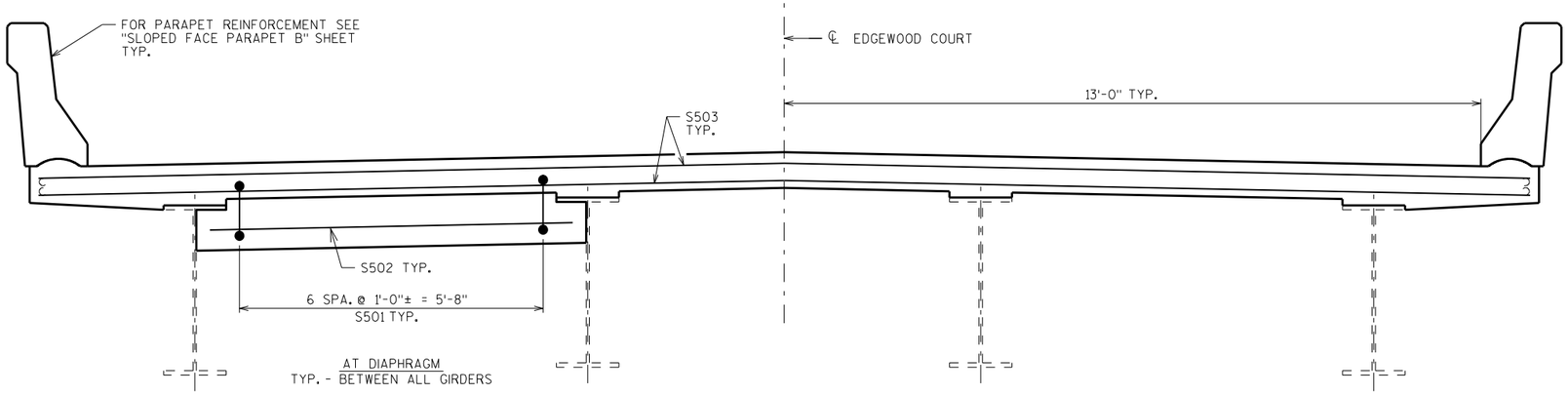
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8

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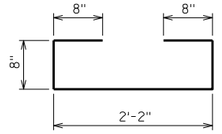


CROSS SECTION THRU SUPERSTRUCTURE AT JOINT REPAIR - LOOKING EAST

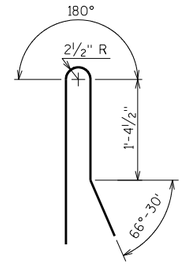
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

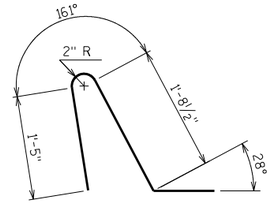
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S501	X	42	4'-4"	X		EXPANSION DEVICE - VERT. - BTWN. GIRDERS
S502	X	30	6'-10"			EXPANSION DEVICE - HORIZ. - BTWN. GIRDERS
S503	X	22	27'-10"			EXPANSION DEVICE - TRANVERSE
S404	X	12	6'-10"			EXPANSION DEVICE - HORIZ. - BTWN. GIRDERS
S505	X	20	2'-5"			PARAPET - HORIZ.
S406	X	16	4'-4"	X		PARAPET - VERT.
S407	X	16	4'-3"	X		PARAPET - VERT.



S501

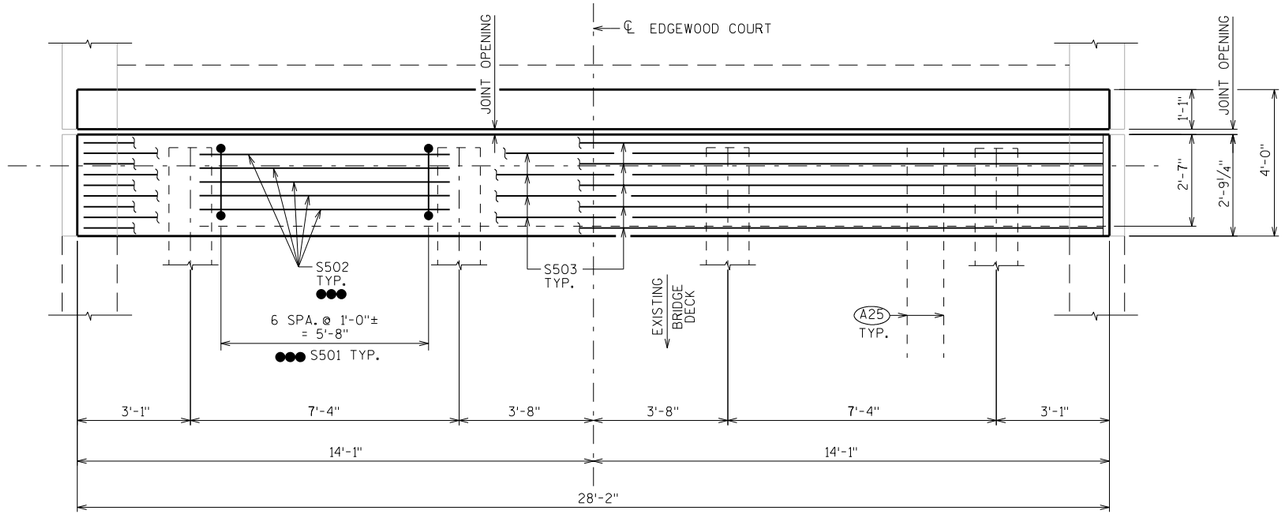


S406



S407

●●● BETWEEN GIRDERS ONLY



PLAN

(A25) SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

8

8

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STRUCTURE B-39-29

DRAWN BY DDS | PLANS CK'D. BLB

JOINT REPAIR

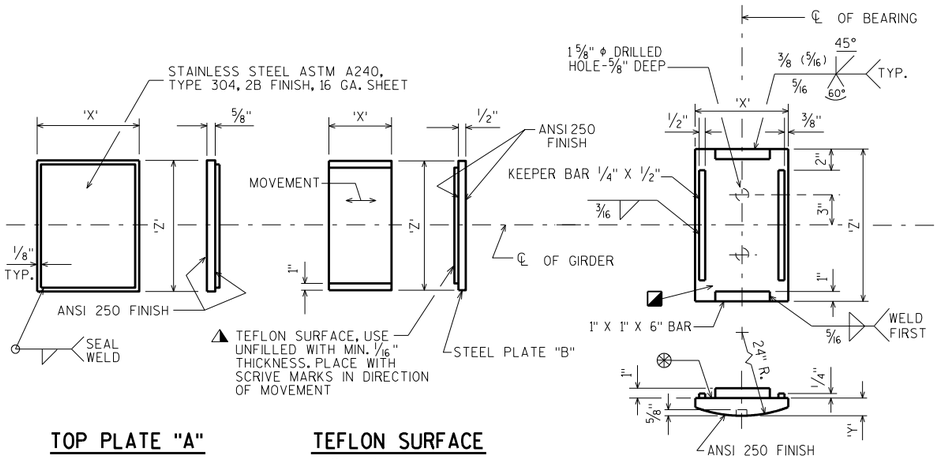
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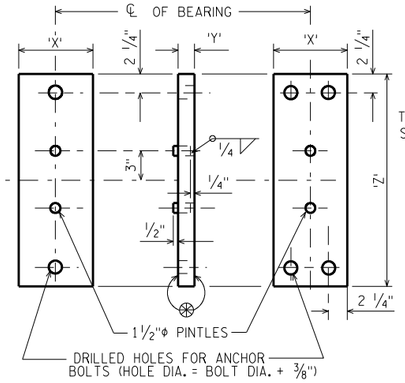
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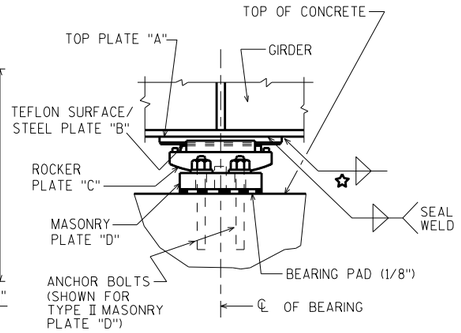
SCALE = 2

STATE PROJECT NUMBER

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EXPANSION BEARING

	PLATE "A"			PLATE "B"			PLATE "C"			PLATE "D"			PLATE "D" TYPE	ANCHOR BOLT SIZE	NO. OF BRG'S REQ'D.	LOCATION
	'X'	'Y'	'Z'	'X'	'Y'	'Z'	'X'	'Y'	'Z'	'X'	'Y'	'Z'				
EXPANSION BEARING	9"	5/8"	1'-8"	5"	1/2"	1'-8"	7"	1 7/16"	1'-10 1/4"	11"	1 1/2"	2'-6"	II	1 1/4"	8	AT ABUTMENTS
FIXED BEARING							5"	1 15/16"	1'-8"	1'-0"	2 3/8"	2'-5"	II	1 1/4"	4	AT PIER

BEARING NOTES

ALL BEARINGS ARE SYMMETRICAL ABOUT ℄ OF GIRDER AND ℄ OF BEARING.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS.

CHAMFER ANCHOR BOLTS PRIOR TO THREADING.

ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. BOLT LENGTH TO BE 2'-3". PROJECT ANCHOR BOLTS, MASONRY PLATE "D" THICKNESS + 2 1/4". ABOVE TOP OF CONCRETE. EMBED ANCHOR BOLTS 1'-0" MIN. INTO EXISTING ABUTMENT CONCRETE.

CHAMFER TOP OF PINTLES 1/8". DRILL HOLES FOR ALL PINTLES IN MASONRY PLATE "D" FOR A DRIVING FIT.

ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES, BUT EXCLUDING ANCHOR BOLTS, STAINLESS STEEL SHEET, TEFLON SURFACE, PINTLES, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 50W.

STEEL PINTLES SHALL CONFORM TO ASTM A449 OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 36, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

PROVIDE 1/8" THICK BEARING PAD THE SAME SIZE AS MASONRY PLATE "D" FOR EACH BEARING.

ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES AND BEARING PADS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING ASSEMBLIES EXPANSION B-39-29" OR "BEARING ASSEMBLIES FIXED B-39-29", EACH.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153, CLASS C.

FIXED BEARINGS:
ROCKER PLATE "C" SHALL BE SHOP PAINTED WITH A WELDABLE PRIMER.
MASONRY PLATE "D" SHALL BE GALVANIZED.

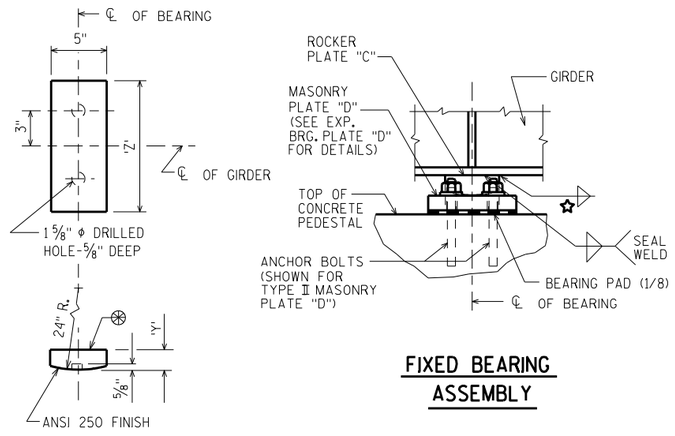
EXPANSION BEARINGS:
TOP PLATE "A" AND STEEL PLATE "B" SHALL BE SHOP PAINTED. USE A WELDABLE PRIMER ON TOP PLATE "A".
ROCKER PLATE "C" AND MASONRY PLATE "D" SHALL BE GALVANIZED. DO NOT PAINT STAINLESS STEEL OR TEFLON SURFACES.

⊛ FINISH THESE SURFACES TO ANSI 250 IF 'Y' DIMENSION IS GREATER THAN 2".

◪ PROVIDE A METHOD FOR HANDLING ROCKER PLATE "C" DURING GALVANIZING.

⚠ BOND STEEL PLATE "B" AND TEFLON WITH ADHESIVE MATERIAL MEETING FEDERAL SPECIFICATION MMM-A-134, FEP FILM OR EQUAL.

AT INSTALLATION, ENSURE STAINLESS STEEL SLIDING FACE OF THE UPPER ELEMENT AND THE TFE SLIDING FACE OF THE LOWER ELEMENT HAVE THE SURFACE FINISH SPECIFIED AND ARE CLEAN AND FREE OF ALL DUST, MOISTURE, AND OTHER FOREIGN MATTER.



FIXED BEARING

☆ TABLE OF FILLET WELD SIZES

MATERIAL THICKNESS OF THICKER PART JOINED.	∔ MIN. SIZE OF FILLET WELD
TO 1/2" INCLUSIVE	3/16"
OVER 1/2" TO 3/4"	1/4"
OVER 3/4" TO 1 1/2"	△ 5/16"
OVER 1 1/2" TO 2 1/4"	△ 3/8"
OVER 2 1/4" TO 6"	△ 1/2"

∔ EXCEPT THAT THE WELD SIZE SHALL NOT EXCEED THE THICKNESS OF THE THINNER PART JOINED.

△ MIN. PASS SIZE IS 5/16"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-29

DRAWN BY DDS | PLANS CK'D. BLB

BEARING DETAILS

SHEET 10

336

8

8

LEVELS 1 2 3 4 5 6

SCALE = .089

FT 55 BRTFLON

STATE PROJECT NUMBER

1166-07-76

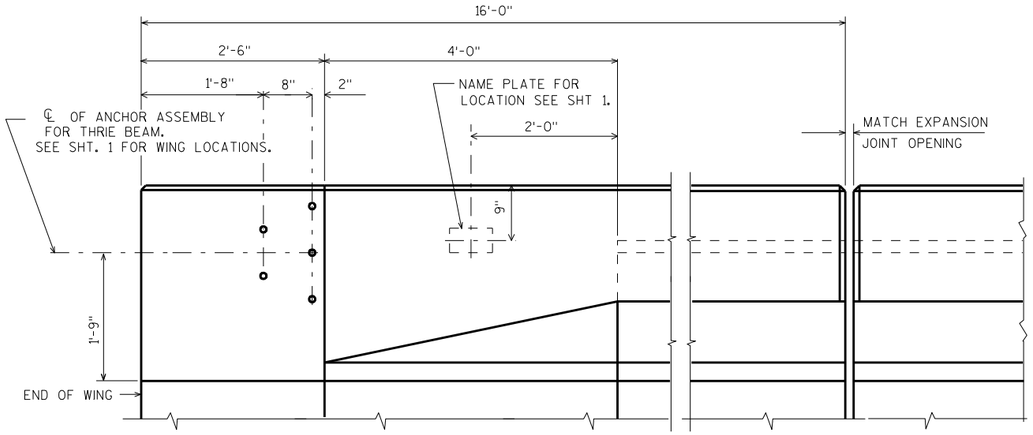
BILL OF BARS

FOR ABUTMENT PARAPETS

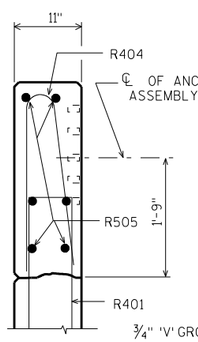
THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	NO. REQ'D. WEST ABUT.	NO. REQ'D. EAST ABUT.	LENGTH	BENT	LOCATION
R401	30	30	4-9	X	WINGS STIRRUPS
R402	8	8	3-1	X	WINGS
R403	26	26	4-9	X	WINGS STIRRUPS
R404	30	30	4-9	X	WINGS
R505	12	12	6-2		WINGS
R406	26	26	4-10	X	WINGS
R507	10	10	11-3		WINGS

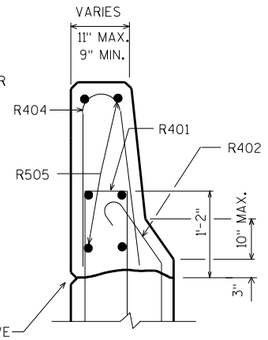
EPOXY COAT ALL PARAPET REINF.



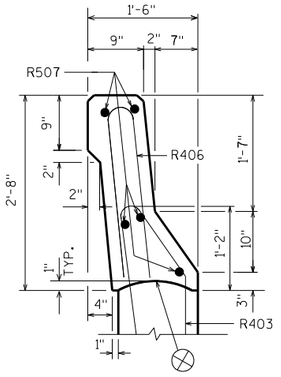
INSIDE ELEVATION



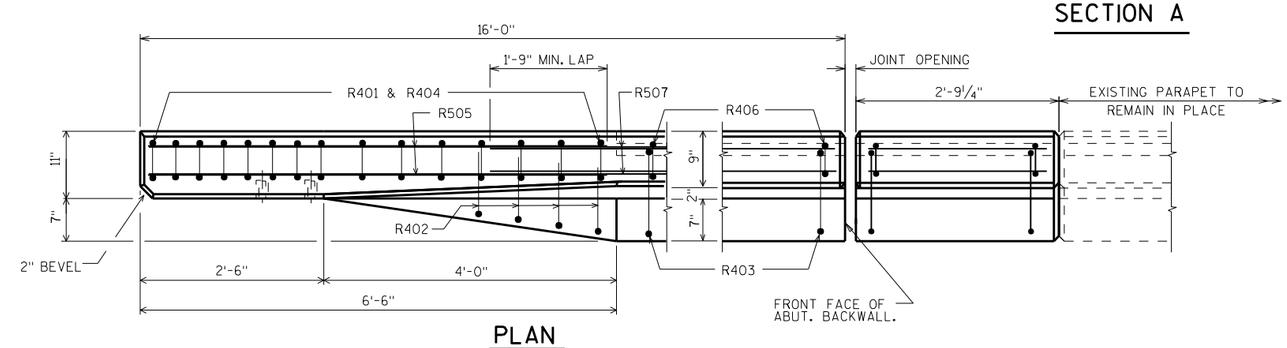
SECTION A



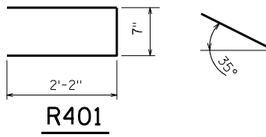
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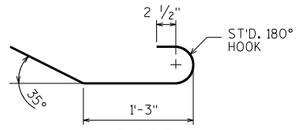
SECTION C



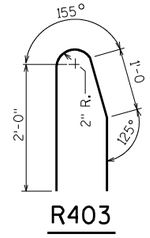
PLAN



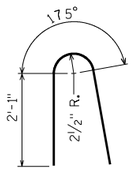
R401



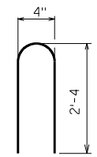
R402



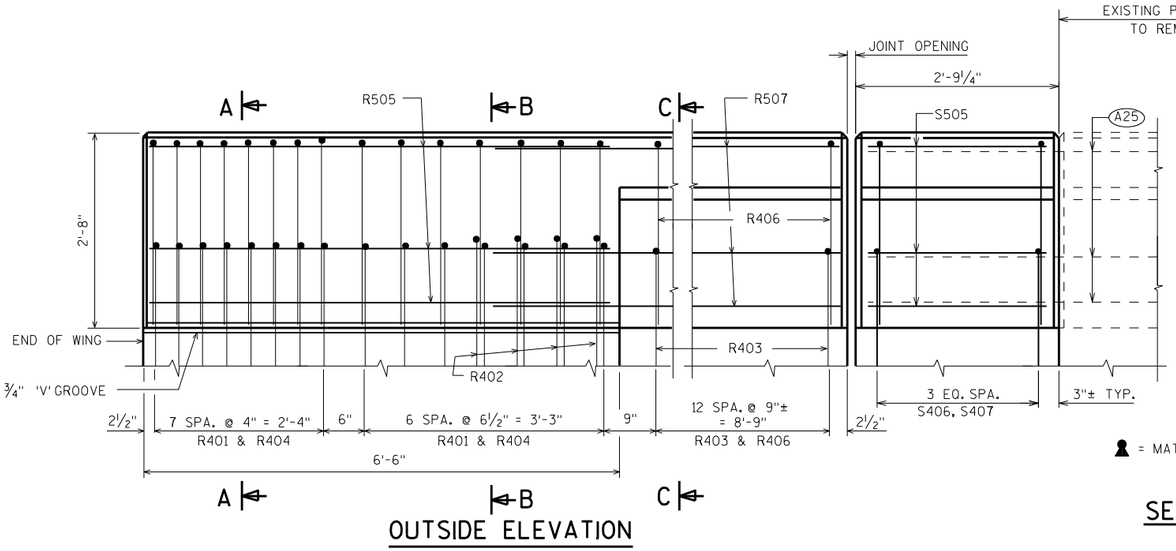
R403



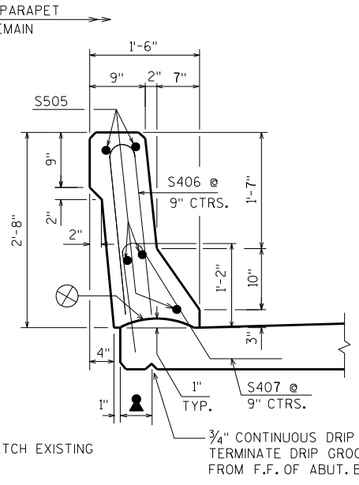
R404



R406

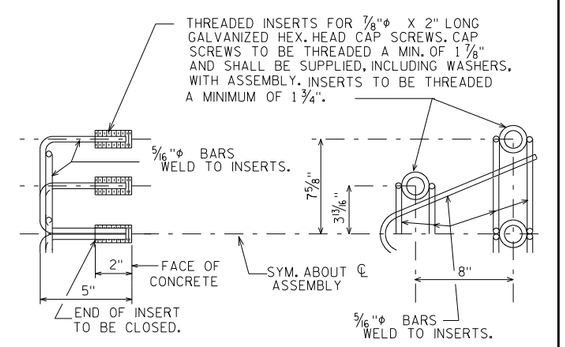


OUTSIDE ELEVATION



= MATCH EXISTING

SECTION THRU PARAPET ON BRIDGE



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX. HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

A25 SALVAGE EXISTING REINF. AND EXTEND FULL LENGTH INTO NEW WORK.

⊗ CONST. JOINT - STRIKE OFF AS SHOWN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-29

DRAWN BY DDS | PLANS CK'D. BLB

SLOPED FACE PARAPET "B"

SHEET 11

337

SCALE = 1

8

8

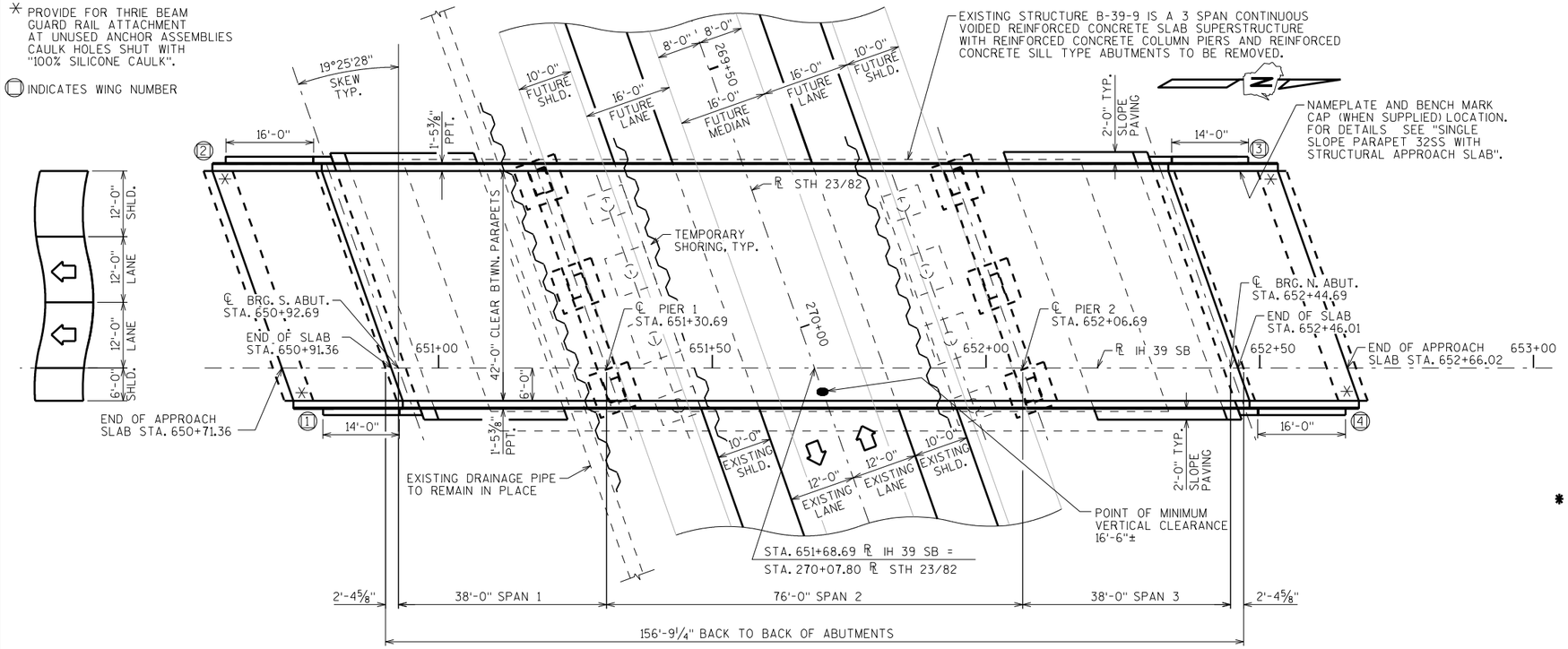
PPTB
07.11

STATE PROJECT NUMBER

1166-07-76

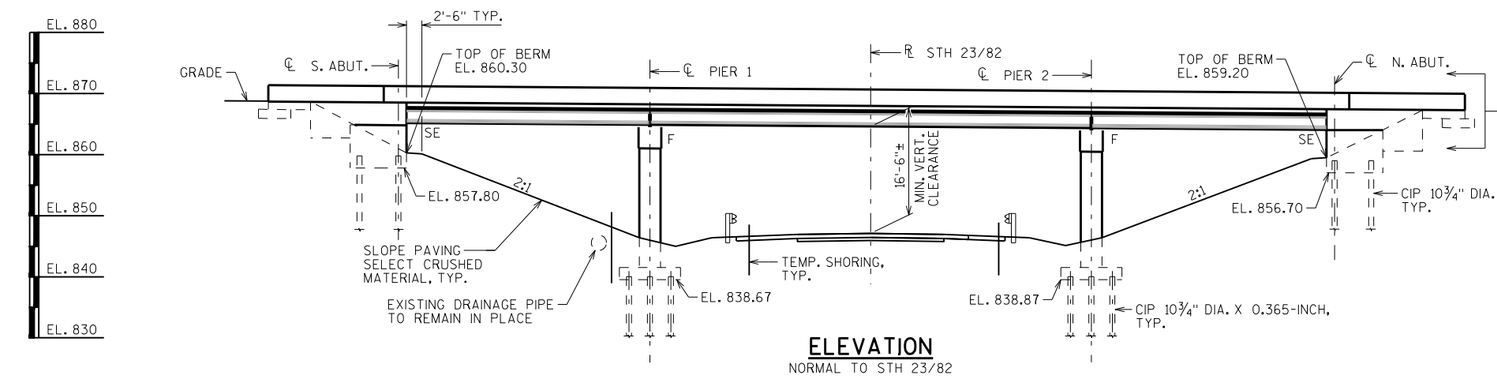
✳ PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT AT UNUSED ANCHOR ASSEMBLIES CAULK HOLES SHUT WITH "100% SILICONE CAULK".

⬡ INDICATES WING NUMBER



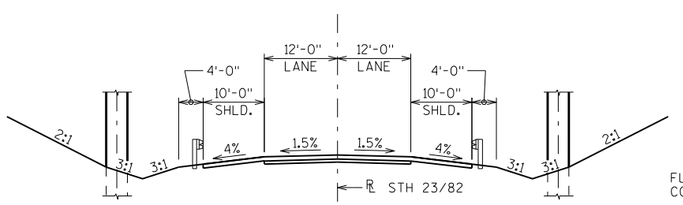
PLAN

3 SPAN - 36W" PRESTRESSED GIRDERS

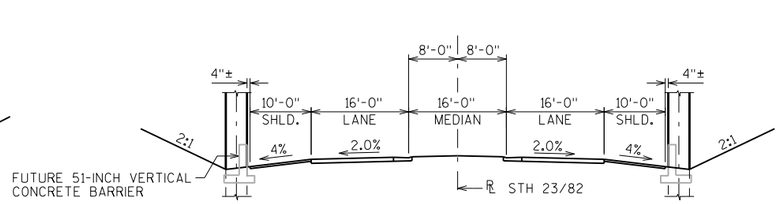


ELEVATION

NORMAL TO STH 23/82



EXISTING CROSS SECTION THRU STH 23/82



FUTURE CROSS SECTION THRU STH 23/82

DESIGN DATA

LIVE LOAD:

DESIGN LOADING; HL-93
INVENTORY RATING FACTOR: RF=1.06
OPERATING RATING FACTOR: RF=1.37
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250 (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY — DECK — f'c = 4,000 P.S.I.
ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 P.S.I.

36W" PRESTRESSED GIRDERS, CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS-0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

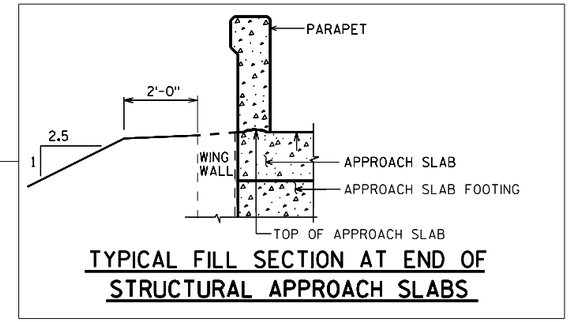
ABUTMENTS TO BE SUPPORTED ON 10¾" DIA. X 0.365-INCH CIP CONCRETE PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 150 TONS ✱✱ PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 115 FEET LONG.

PIERS TO BE SUPPORTED ON 10¾" DIA. X 0.365-INCH CIP CONCRETE PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 150 TONS ✱✱ PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 105 FEET LONG.

✱✱ THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

℄ IH 39 SB	℄ STH 23/82
A.D.T.=17,200 (2035)	A.D.T.=5,100 (2035)
R.D.S.=70 M.P.H.	R.D.S.=60 M.P.H.



TYPICAL FILL SECTION AT END OF STRUCTURAL APPROACH SLABS

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION AND QUANTITIES
3. SUBSURFACE EXPLORATION
4. SOUTH ABUTMENT
5. SOUTH ABUTMENT DETAILS
6. NORTH ABUTMENT
7. NORTH ABUTMENT DETAILS
8. PIER 1
9. PIER 2
10. 36W" PRESTRESSED GIRDER DETAILS 1
11. 36W" PRESTRESSED GIRDER DETAILS 2
12. STEEL DIAPHRAGMS
13. SUPERSTRUCTURE CROSS SECTION
14. SUPERSTRUCTURE
15. SUPERSTRUCTURE DETAILS
16. SOUTH APPROACH SLAB DETAILS
17. NORTH APPROACH SLAB DETAILS
18. SINGLE SLOPE PARAPET 32SS WITH STRUCTURAL APPROACH SLAB
19. SLOPE PAVING (SELECT CRUSHED MATERIAL)

STRUCTURE DESIGN CONTACTS:
EMILY KUEHNE (608) 266-5089
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher — CHIEF STRUCTURES DESIGN ENGINEER — DATE 4/29/15

STRUCTURE B-39-76

IH 39 SB OVER STH 23/82

COUNTY MARQUETTE — TOWN OXFORD & PACKWAUKEE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY EMK | DESIGN CK'D. MJK | DRAWN BY ABS/EMK | PLANS CK'D. ABS/MJK

GENERAL PLAN

SHEET 1 OF 19

338

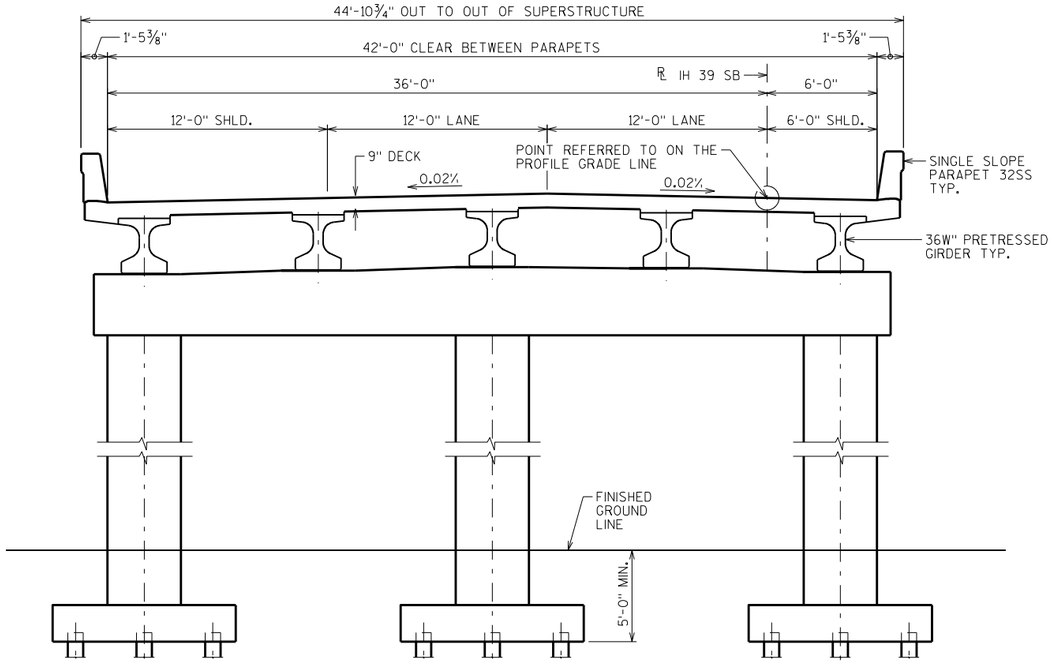
I.D. 1166-07-06 D

DATE: APRIL 2015

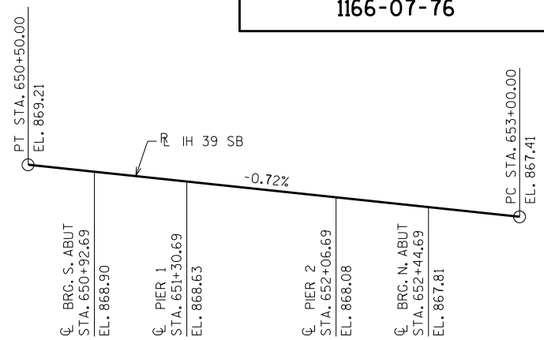
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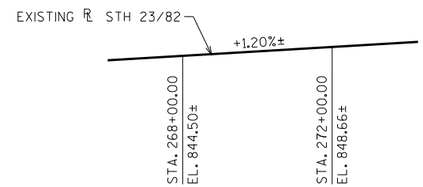


ELEVATION - LOOKING NORTH



PROFILE GRADE LINE

IH 39 SB



PROFILE GRADE LINE

EXISTING STH 23/82

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	SOUTH APPROACH SLAB	SOUTH ABUTMENT	PIER 1	PIER 2	NORTH ABUTMENT	NORTH APPROACH SLAB	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 651+68.69	LS	——	——	——	——	——	——	——	1
203.0210.S	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-39-9	LS	——	——	——	——	——	——	——	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-39-76	LS	——	——	——	——	——	——	——	1
210.0100	BACKFILL STRUCTURE	CY	——	——	147	——	——	145	——	292
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	——	140	——	——	——	——	140	280
502.0100	CONCRETE MASONRY BRIDGES	CY	308	61	74	74	73	74	61	725
502.3200	PROTECTIVE SURFACE TREATMENT	SY	725	95	——	——	——	——	95	915
502.3210.S	PIGMENTED PROTECTIVE SURFACE TREATMENT	SY	130	20	——	——	——	——	20	170
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	763	——	——	——	——	——	——	763
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	——	——	3,350	1,730	1,730	3,350	——	10,160
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	59,040	10,440	1,900	12,460	12,200	1,900	10,440	108,380
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	1,570	——	——	——	——	——	——	1,570
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	——	——	5	10	10	5	——	30
506.4000	STEEL DIAPHRAGMS B-39-76	EACH	12	——	——	——	——	——	——	12
511.1200	TEMPORARY SHORING B-39-76	SF	——	——	——	1,390	610	——	——	2,000
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	——	——	13	——	——	13	——	26
550.2106	PILING CIP CONCRETE 10 3/4 X 0.365-INCH	LF	——	——	1,035	2,940	2,940	1,035	——	7,950
604.0600	SLOPE PAVING SELECT CRUSHED MATERIAL	SY	——	——	215	——	——	215	——	430
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	——	——	95	——	——	95	——	190
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	——	2	——	——	——	——	2	4
	NON-BID ITEMS									
	FILLER	SIZE	——	——	——	——	——	——	——	1½", ½", ¾"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL. ALSO EXCLUDED IS THE "BASE AGGREGATE DENSE 1¼-INCH" AS DETAILED ON THE STRUCTURAL APPROACH SLAB SHEETS.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

THE GRADATION OF THE STRUCTURE BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 209.2.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK AND TOP OF APPROACH SLAB SURFACES.

PIGMENTED PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPET, INCLUDING PARAPETS ON STRUCTURAL APPROACH SLABS.

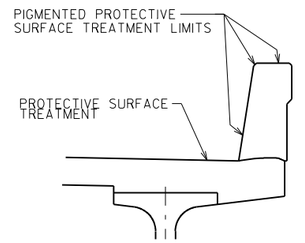
THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND "SLOPE PAVING (SELECT CRUSHED MATERIAL) SHEET".

REMOVE AND SALVAGE THE EXISTING RAILINGS FROM B-39-9 (INCLUDES RAILS, POSTS AND ALL ASSOCIATED HARDWARE). AFTER REMOVAL, THE RAILINGS ARE TO BE SET ASIDE AND SHALL REMAIN THE PROPERTY OF THE STATE OF WISCONSIN. THE CONTRACTOR WILL COORDINATE WITH MARQUETTE COUNTY HIGHWAY DEPARTMENT, AS TO WHEN THE RAILINGS ARE READY TO BE PICKED UP. THIS SHALL BE INCIDENTAL TO "REMOVING OLD STRUCTURE STA. 651+68.69".

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE PRESTRESSED GIRDER DETAILS SHEET.



PROTECTIVE SURFACE TREATMENT LIMITS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-76

DRAWN BY EMK | PLANS CK'D. ABS

CROSS SECTION AND QUANTITIES

SHEET 2

339

STATE PROJECT NUMBER

1166-07-76

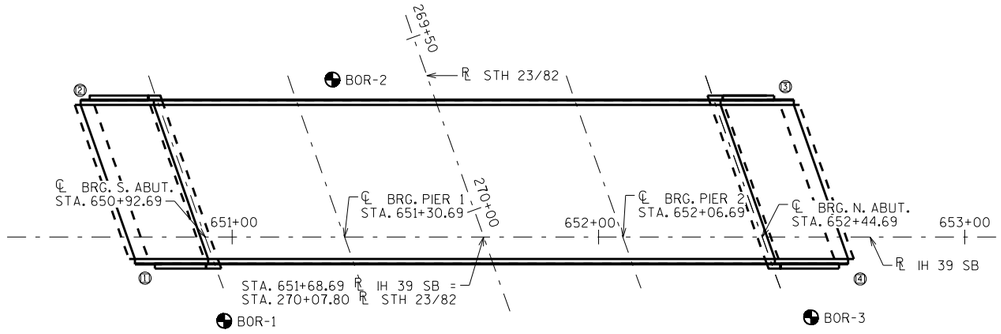
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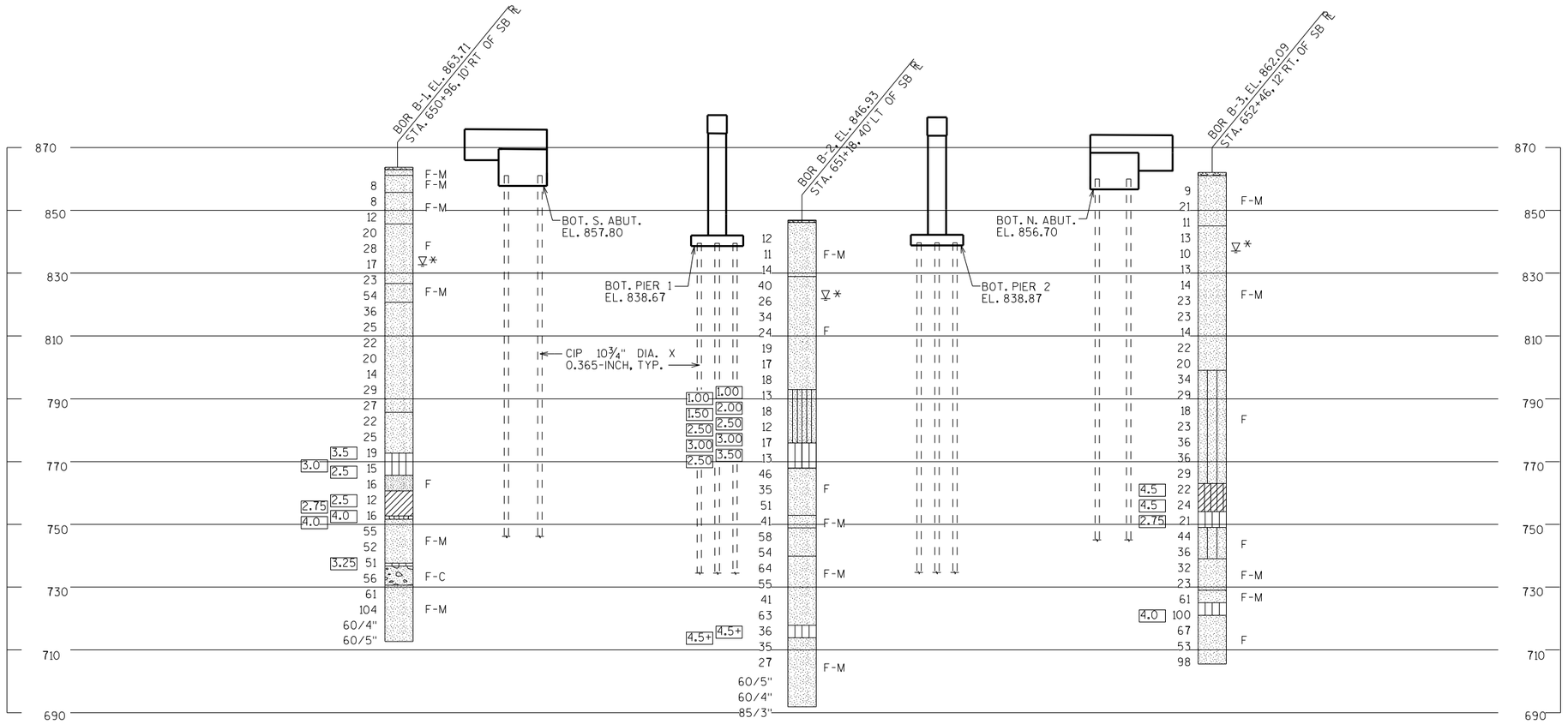
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SCALE = 4.0

PACKWAUKEE - COLOMA

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	4/16/2014	253825.321	431119.516
2	4/21/2014	253858.21	431055.228
3	4/23/2014	253985.308	431126.75
BORINGS COMPLETED BY: WISDOT			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) MARQUETTE COUNTY			





* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.

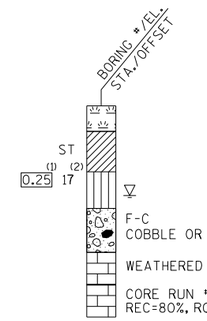
STATE PROJECT NUMBER

1166-07-76

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-76

DRAWN BY PR/EMK | PLANS CK'D. ABS

SUBSURFACE EXPLORATION

SHEET 3

340

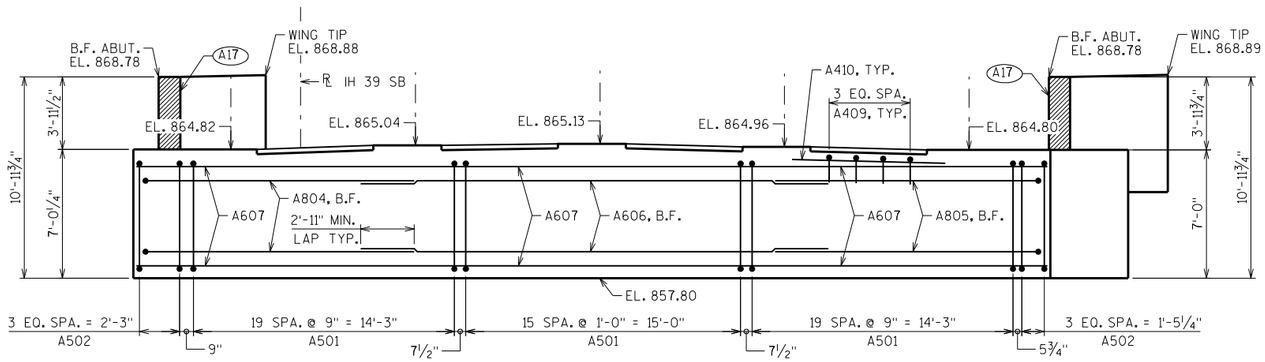
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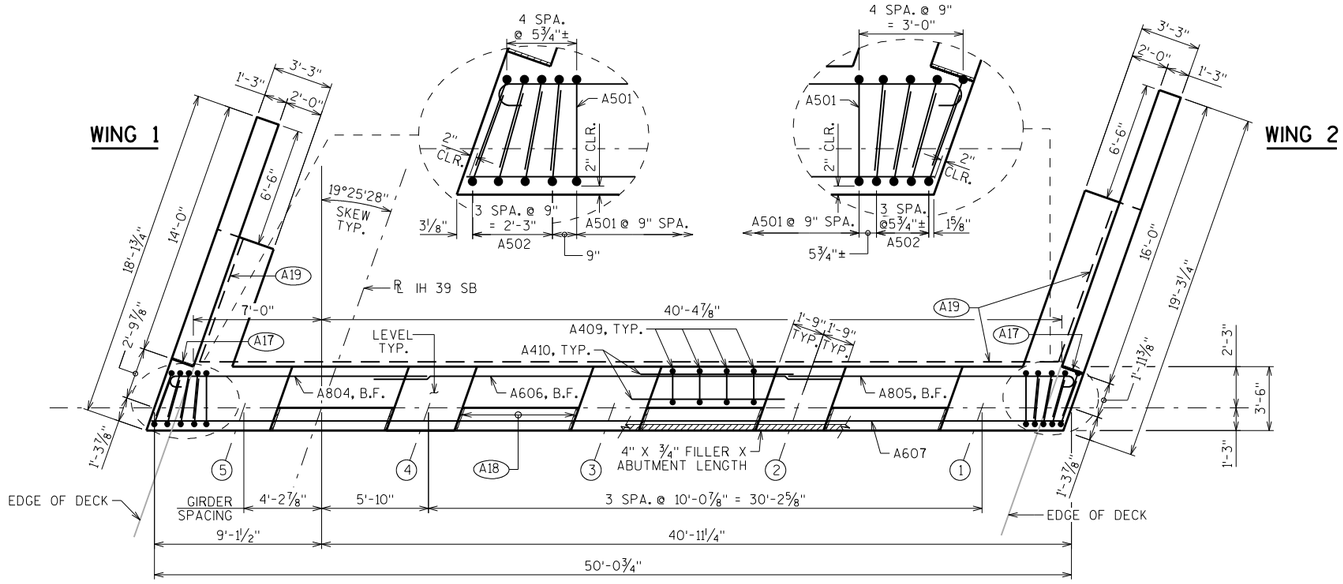
STATE PROJECT NUMBER

1166-07-76

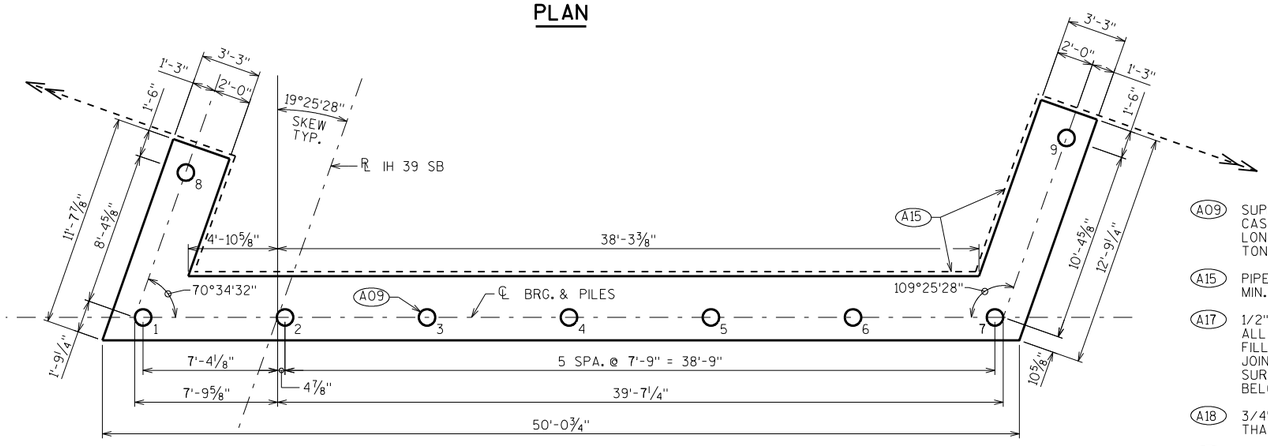


ELEVATION - LOOKING SOUTH @ F.F.

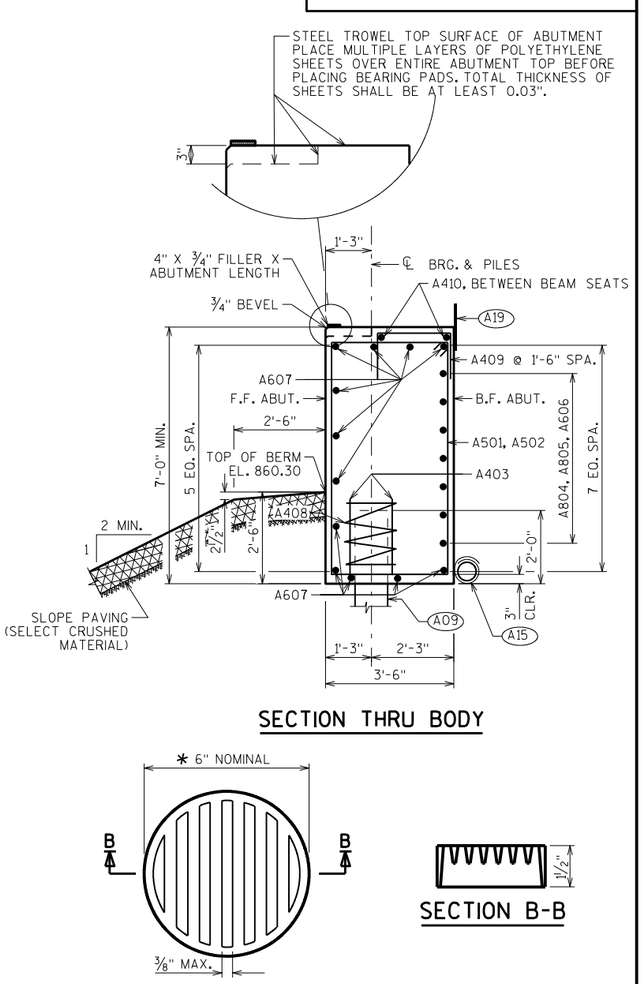
ADJUST STIRRUP SPACING TO MISS PILES



PLAN



PILE PLAN



SECTION THRU BODY

SECTION B-B

RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

(A09) SUPPORT ABUTMENT ON 10¾" DIA. X 0.365-INCH CAST-IN- PLACE CONCRETE PILING, ESTIMATED 115'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-76

DRAWN BY ABS | PLANS CK'D. EMK

SOUTH ABUTMENT

SHEET 4

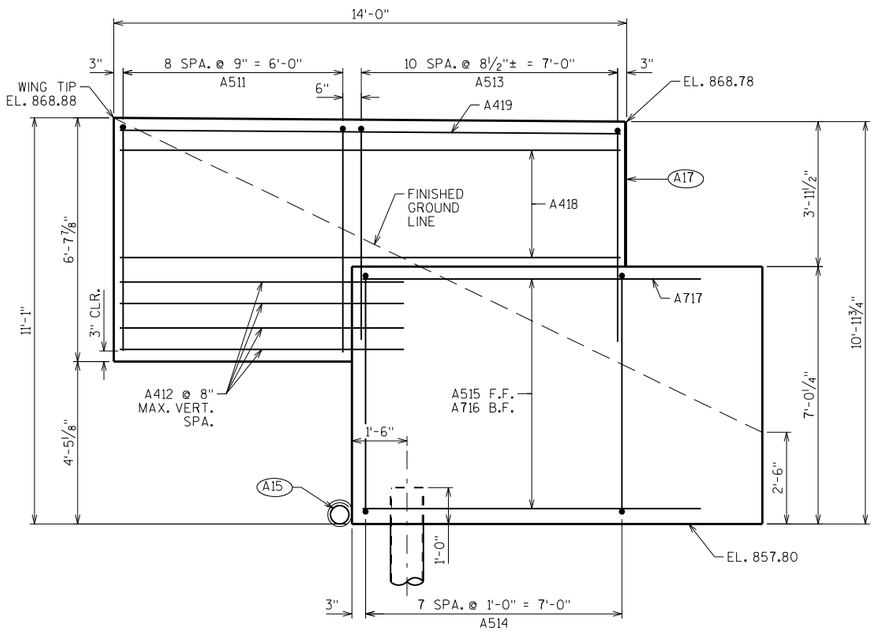
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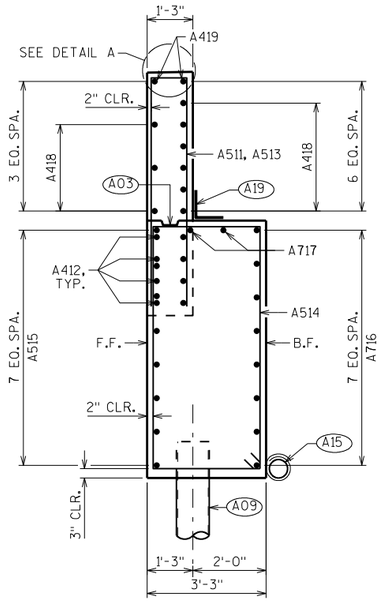
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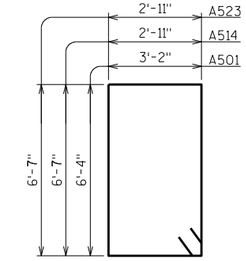
STATE PROJECT NUMBER
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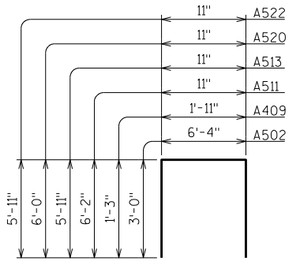
WING 1 ELEVATION



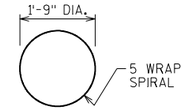
WING 1 SECTION



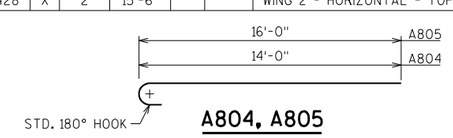
A501, A514, A523



A502, A409, A511, A513, A520, A522



A408

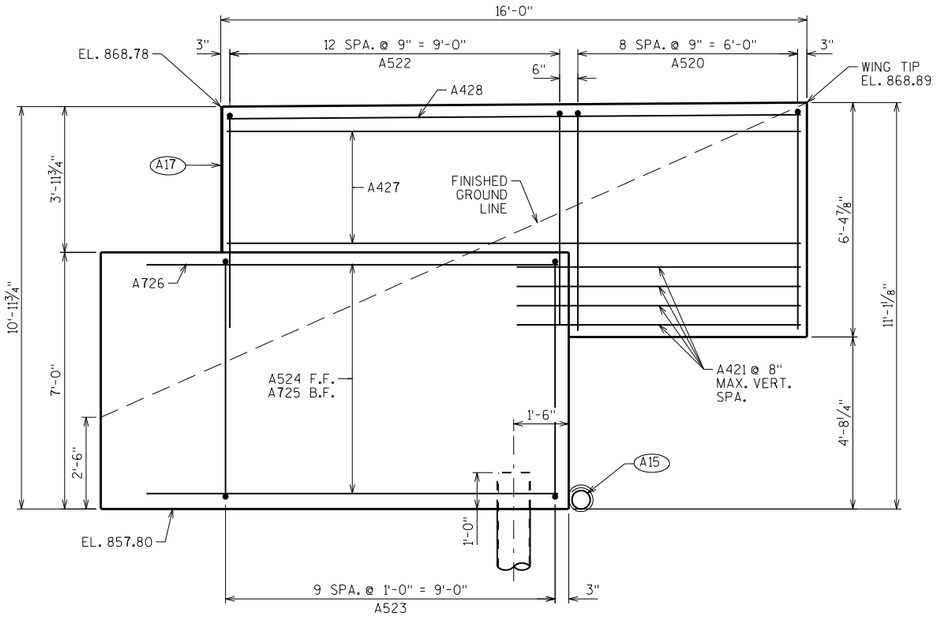


A804, A805

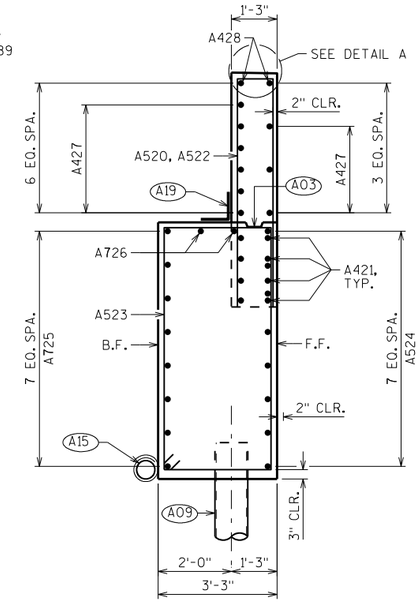
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

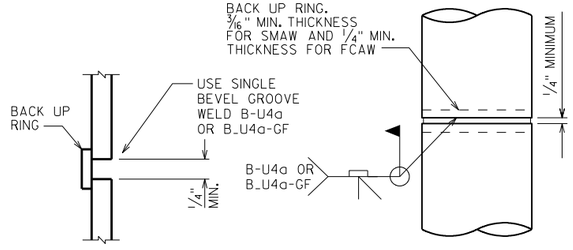
BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
A501		56	19'-8"	X		BODY - STIRRUPS
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A607		12	49'-8"			BODY - HORIZONTAL
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A515	X	8	11'-2"			WING 1 - HORIZONTAL - F.F. - LOWER WING
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A419	X	2	13'-6"			WING 1 - HORIZONTAL - TOP - UPPER WING
A520	X	9	12'-8"	X		WING 2 - VERTICAL - UPPER WING
A421	X	8	7'-9"			WING 2 - HORIZONTAL- UPPER WING
A522	X	13	12'-6"	X		WING 2 - VERTICAL - UPPER WING
A523	X	10	19'-8"	X		WING 2 - STIRRUPS - LOWER WING
A524	X	8	12'-6"			WING 2 - HORIZONTAL - F.F. - LOWER WING
A725	X	8	13'-5"			WING 2 - HORIZONTAL - B.F. - LOWER WING
A726	X	2	12'-9"			WING 2 - HORIZONTAL - TOP - LOWER WING
A427	X	9	15'-6"			WING 2 - HORIZONTAL - UPPER WING
A428	X	2	15'-6"			WING 2 - HORIZONTAL - TOP - UPPER WING



WING 2 ELEVATION



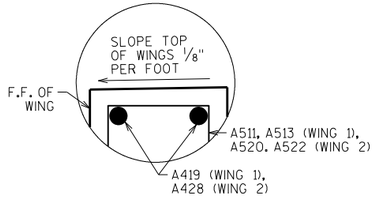
WING 2 SECTION



C.I.P. PILE WELD DETAIL

CAST-IN-PLACE 'PIPE PILE'

PILE DETAILS



DETAIL A

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BYBEVELED 2 x 6. (18" R.M.W. @ B.F. & 3/4""V" GROOVE @ F.F. IF JOINT IS USED).

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STRUCTURES DESIGN SECTION

STRUCTURE B-39-76

DRAWN BY ABS | PLANS CK'D. MJK

SOUTH ABUTMENT DETAILS

SHEET 5

342

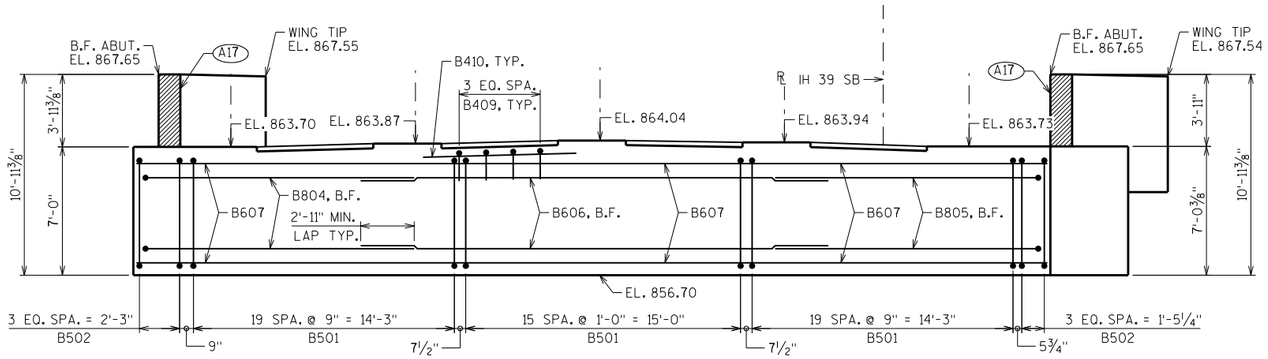
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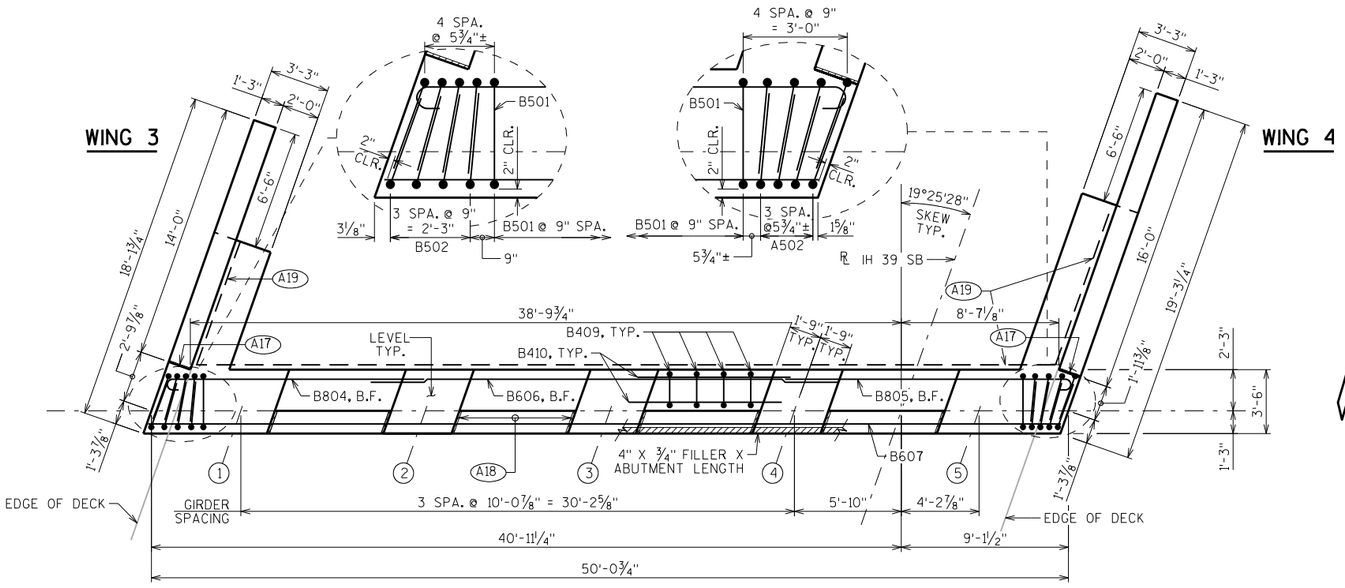
STATE PROJECT NUMBER

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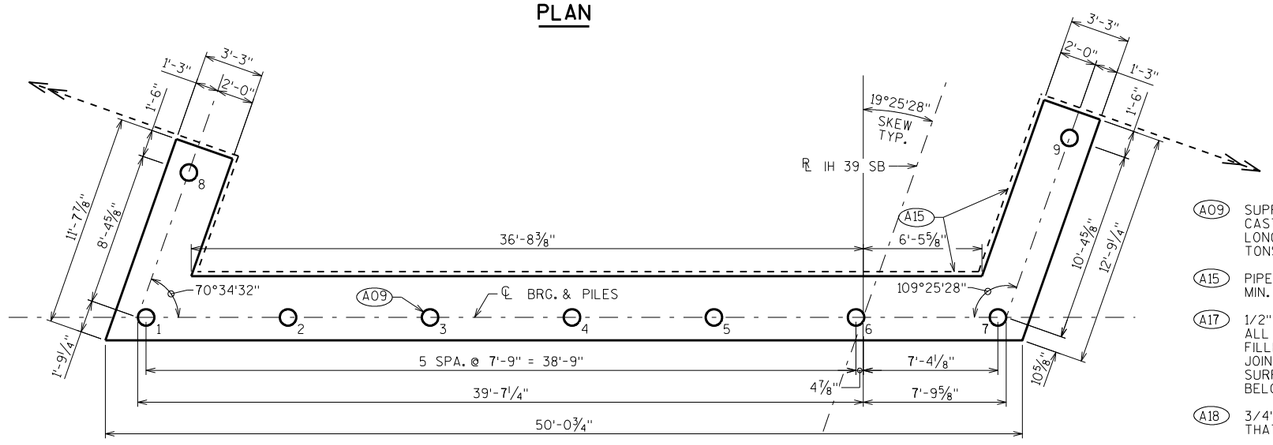


ELEVATION - LOOKING NORTH @ F.F.

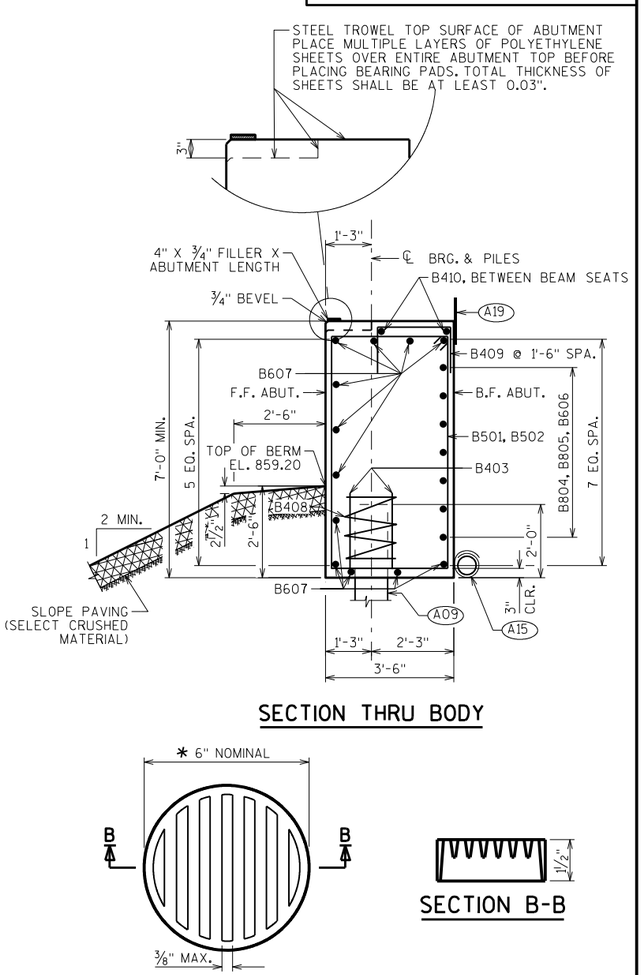
ADJUST STIRRUP SPACING TO MISS PILES



PLAN



PILE PLAN



SECTION THRU BODY

SECTION B-B

RODENT SHIELD DETAIL

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-76

DRAWN BY ABS | PLANS CK'D. EMK

NORTH ABUTMENT

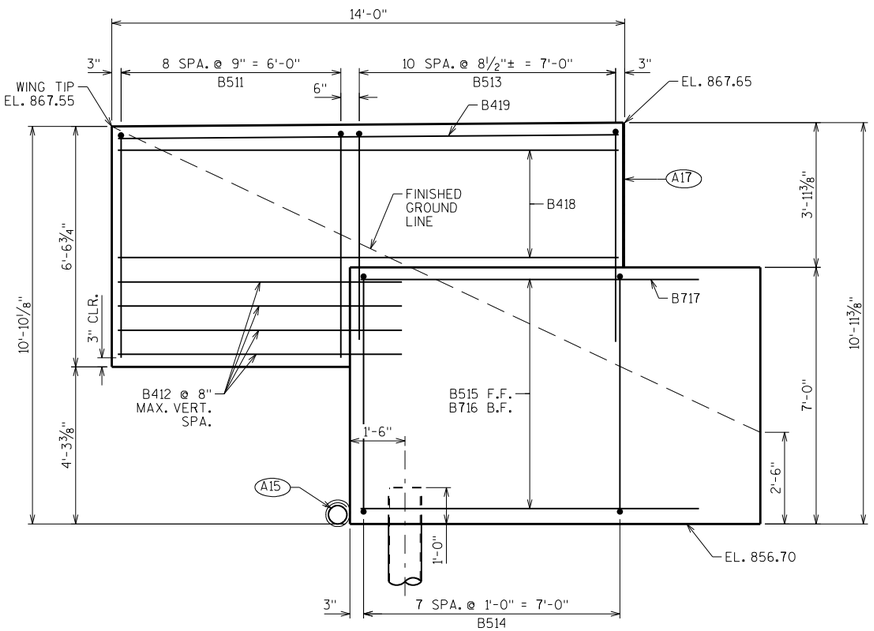
SHEET 6

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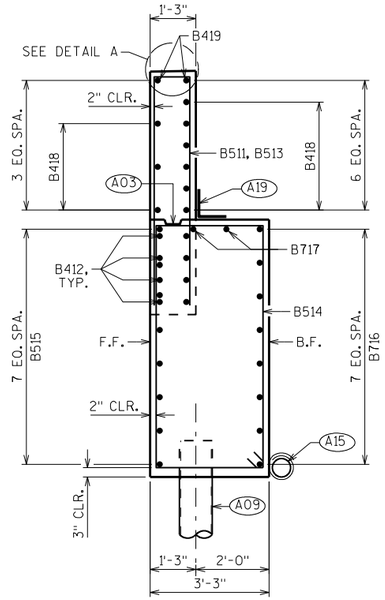
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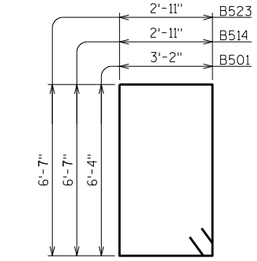
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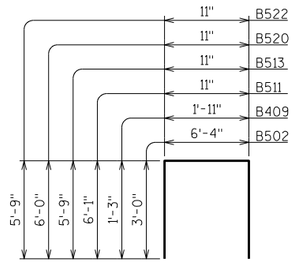
WING 3 ELEVATION



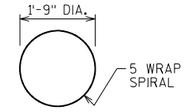
WING 3 SECTION



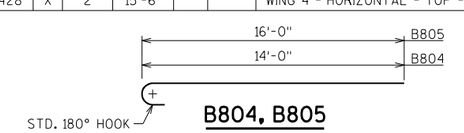
B501, B514, B523



B502, B409, B511, B513, B520, B522



B408

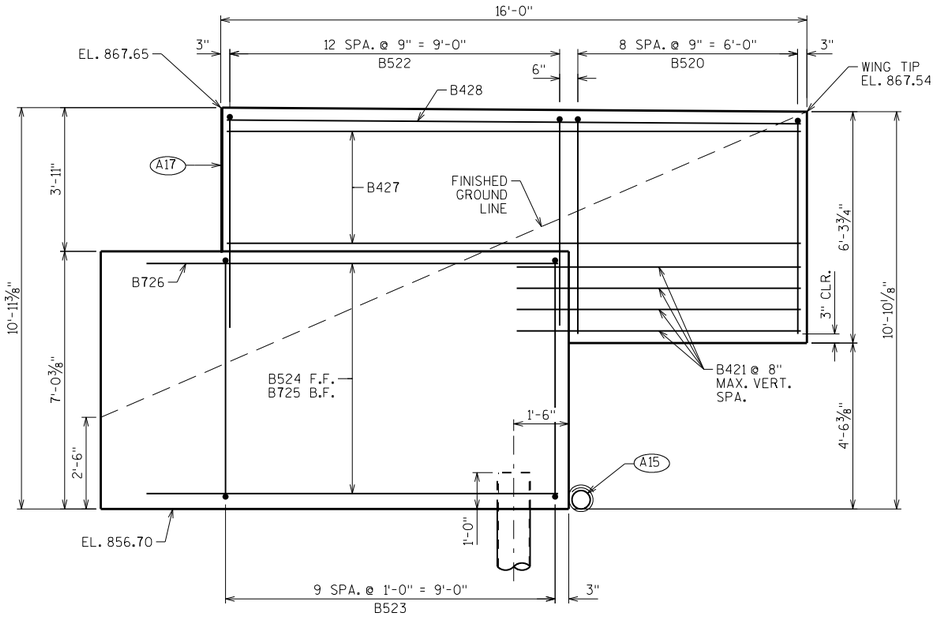


B804, B805

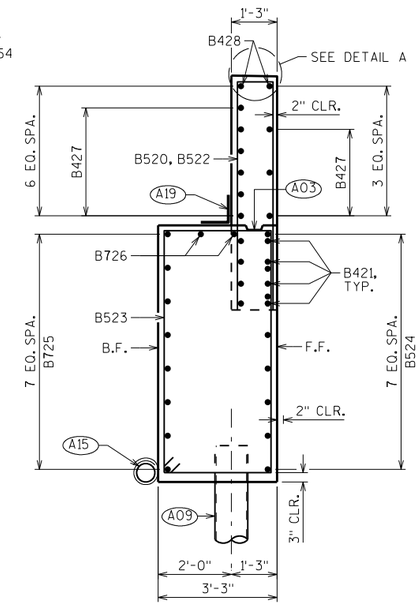
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

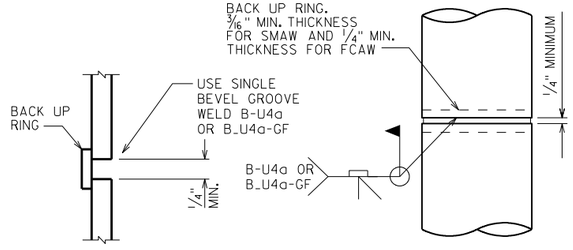
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B412	X	8	7'-9"			WING 3 - HORIZONTAL- UPPER WING
B513	X	11	12'-2"	X		WING 3 - VERTICAL - UPPER WING
B514	X	8	19'-8"	X		WING 3 - STIRRUPS - LOWER WING
B515	X	8	11'-2"			WING 3 - HORIZONTAL - F.F. - LOWER WING
B716	X	8	10'-3"			WING 3 - HORIZONTAL - B.F. - LOWER WING
B717	X	2	10'-7"			WING 3 - HORIZONTAL - TOP - LOWER WING
B418	X	9	13'-6"			WING 3 - HORIZONTAL - UPPER WING
B419	X	2	13'-6"			WING 3 - HORIZONTAL - TOP - UPPER WING
B520	X	9	12'-8"	X		WING 4 - VERTICAL - UPPER WING
B421	X	8	7'-9"			WING 4 - HORIZONTAL- UPPER WING
B522	X	13	12'-2"	X		WING 4 - VERTICAL - UPPER WING
B523	X	10	19'-8"	X		WING 4 - STIRRUPS - LOWER WING
B524	X	8	12'-6"			WING 4 - HORIZONTAL - F.F. - LOWER WING
B725	X	8	13'-5"			WING 4 - HORIZONTAL - B.F. - LOWER WING
B726	X	2	12'-9"			WING 4 - HORIZONTAL - TOP - LOWER WING
B427	X	9	15'-6"			WING 4 - HORIZONTAL - UPPER WING
B428	X	2	15'-6"			WING 4 - HORIZONTAL - TOP - UPPER WING



WING 4 ELEVATION



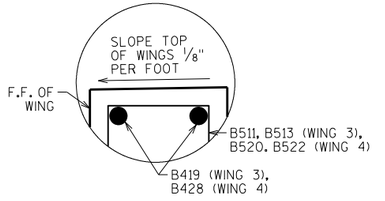
WING 4 SECTION



C.I.P. PILE WELD DETAIL

CAST-IN-PLACE 'PIPE PILE'

PILE DETAILS



DETAIL A

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BYBEVELED 2 x 6. (18" R.M.W. @ B.F. & 3/4""V" GROOVE @ F.F. IF JOINT IS USED).

(A09) SUPPORT ABUTMENT ON 10¾" DIA. X 0.365-INCH CAST-IN-PLACE CONCRETE PILING, ESTIMATED 115'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

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NORTH ABUTMENT DETAILS

SHEET 7

344

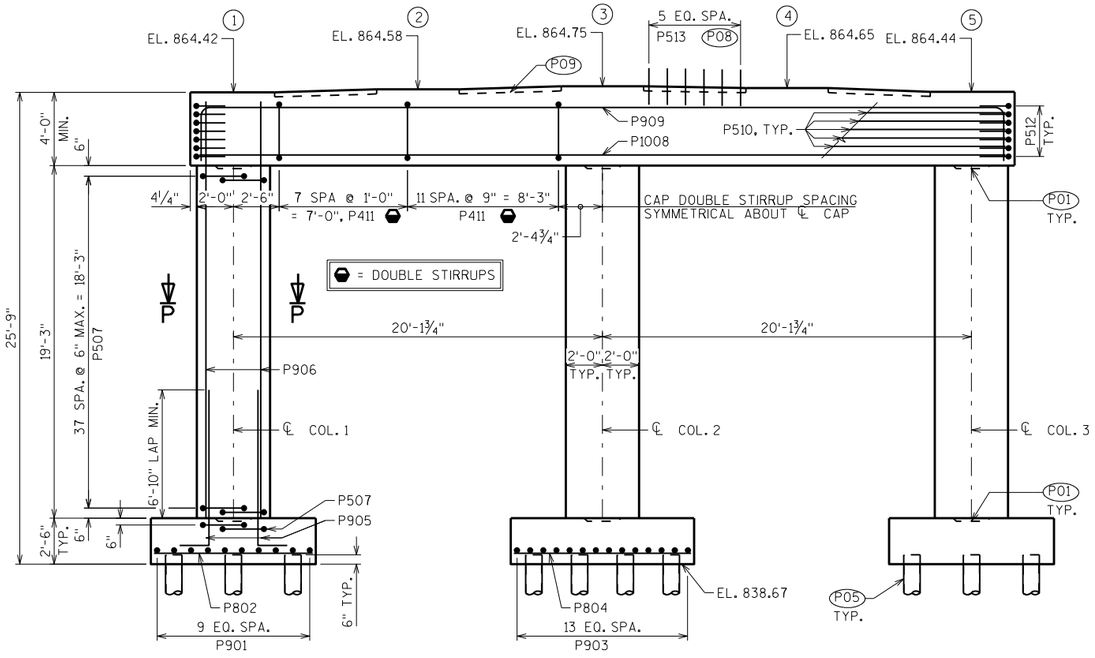
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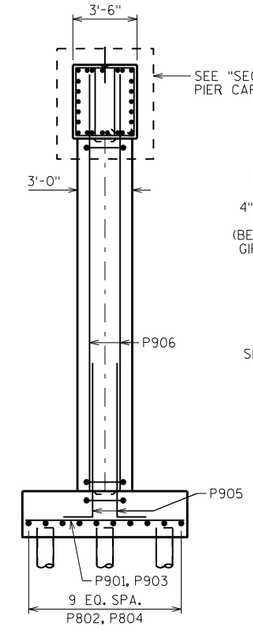
STATE PROJECT NUMBER

1166-07-76



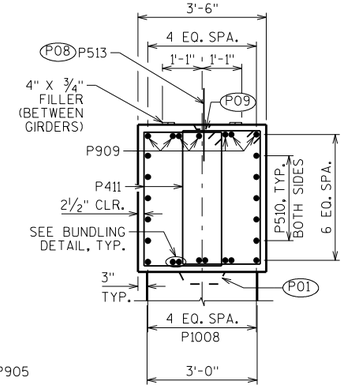
ELEVATION

LOOKING NORTH

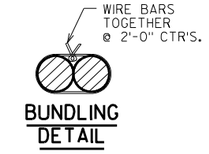


COLUMN SIDE VIEW

LOOKING EAST



SECTION THRU PIER CAP

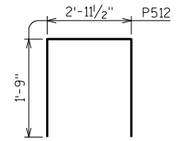


BUNDLING DETAIL

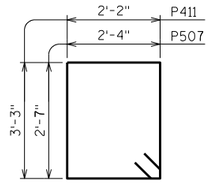
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

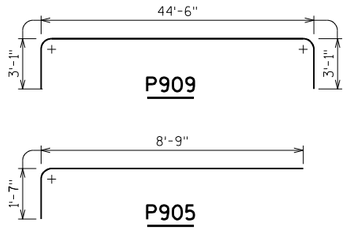
BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
P901		20	8'-8"			FOOTING 1 & 3 - HORIZONTAL
P802		20	8'-8"			FOOTING 1 & 3 - HORIZONTAL
P903		14	8'-8"			FOOTING 2 - HORIZONTAL
P804		10	9'-8"			FOOTING 2 - HORIZONTAL
P905	X	54	10'-1"	X		FOOTING/SHAFT - VERTICAL
P906	X	54	22'-7"			COLUMN - VERTICAL
P507	X	234	10'-6"	X		COLUMN - HORIZONTAL - STIRRUPS
P1008	X	8	44'-6"			CAP - HORIZONTAL - BOTTOM
P909	X	7	50'-0"	X		CAP - HORIZONTAL - TOP
P510	X	10	44'-6"			CAP - HORIZONTAL - SIDES
P411	X	76	11'-4"	X		CAP - VERTICAL - STIRRUPS
P512	X	14	6'-3"	X		CAP - HORIZONTAL - ENDS
P513	X	24	2'-0"			CAP - VERTICAL - DOWELS

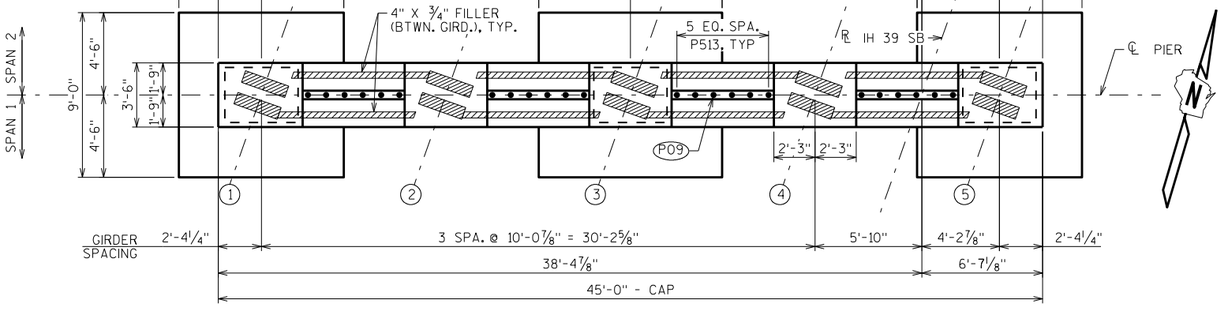


P512

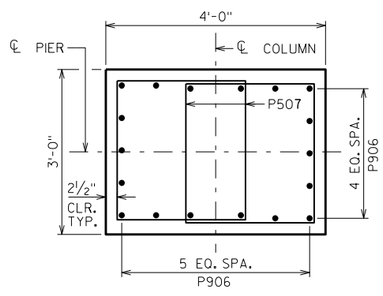


P507, P411

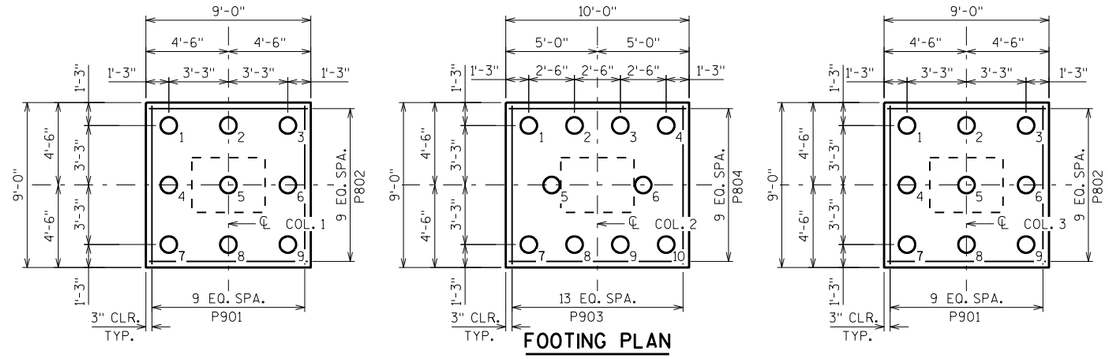




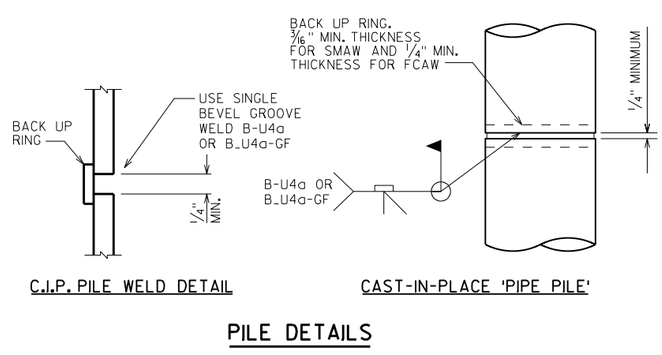
PLAN



SECTION P-P



FOOTING PLAN



C.I.P. PILE WELD DETAIL

CAST-IN-PLACE 'PIPE PILE'

PILE DETAILS

P01 1'-3" X 2'-0" X 4" CONSTRUCTION JOINT FORMED BY BEVELED KEYWAY.

P05 SUPPORT PIER ON 10¾" DIA. X 0.365-INCH CAST-IN-PLACE CONCRETE PILING, ESTIMATED 105 FEET LONG WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE.

P08 P513 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

P09 KEYWAY CONSTRUCTION JOINT - FORMED BY A BEVELED 2X6 BETWEEN BEAM SEATS

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PIER 1

SHEET 8

345

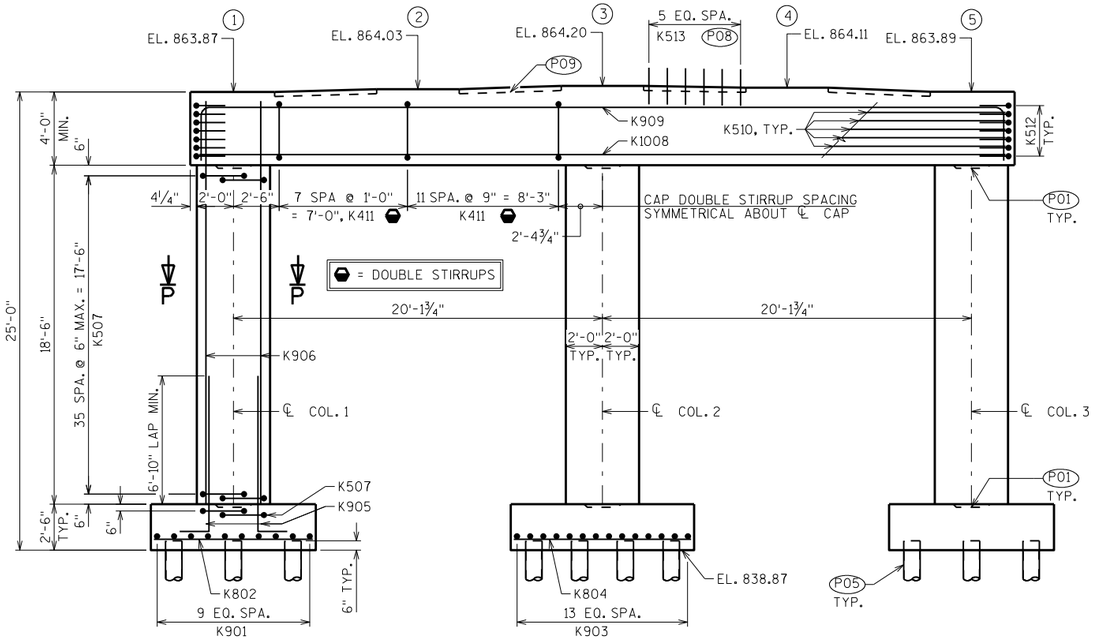
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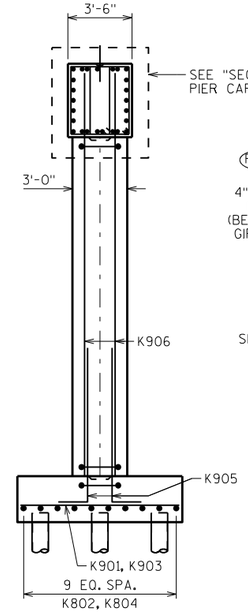
STATE PROJECT NUMBER

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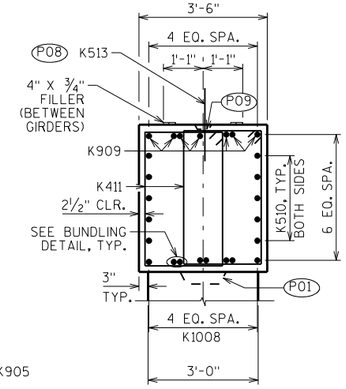
ELEVATION

LOOKING NORTH



COLUMN SIDE VIEW

LOOKING EAST



SECTION THRU PIER CAP

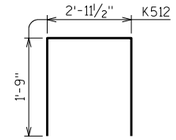


BUNDLING DETAIL

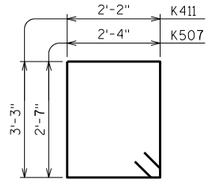
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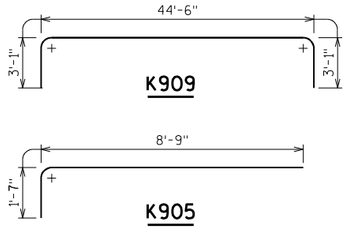
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K906	X	54	21'-10"			COLUMN - VERTICAL
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K909	X	7	50'-0"	X		CAP - HORIZONTAL - TOP
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K411	X	76	11'-4"	X		CAP - VERTICAL - STIRRUPS
K512	X	14	6'-3"	X		CAP - HORIZONTAL - ENDS
K513	X	24	2'-0"			CAP - VERTICAL - DOWELS

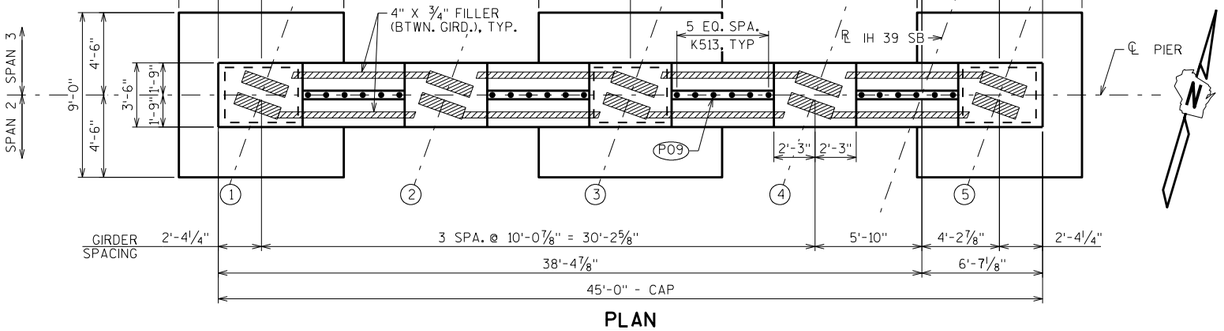


K512

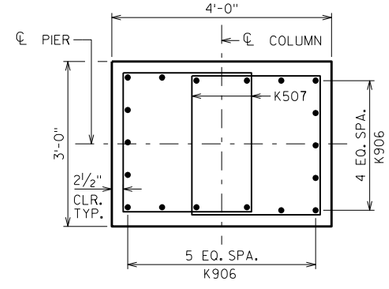


K507, K411

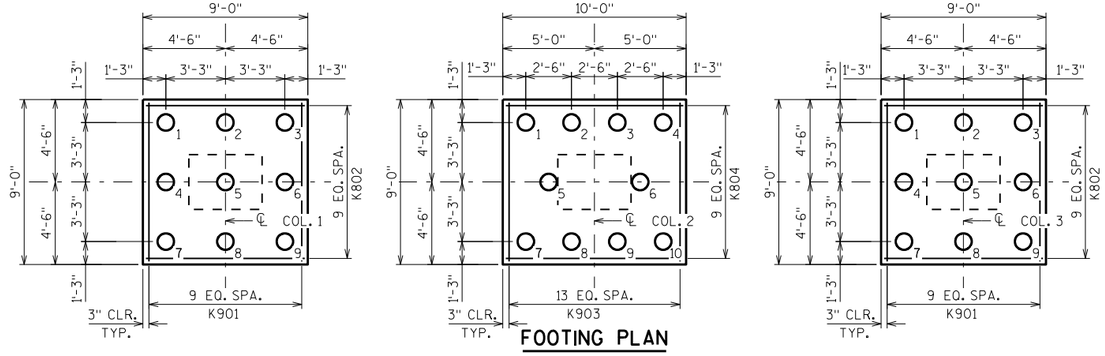




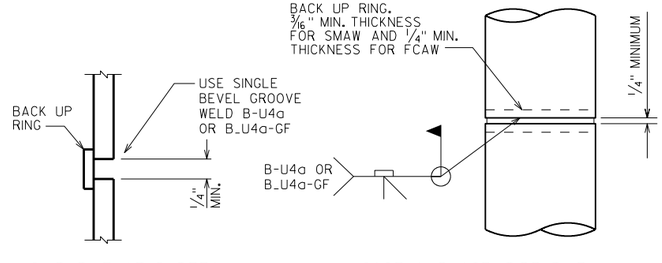
PLAN



SECTION P-P



FOOTING PLAN



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CAST-IN-PLACE 'PIPE PILE'

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P09 KEYWAY CONSTRUCTION JOINT - FORMED BY A BEVELED 2X6 BETWEEN BEAM SEATS

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PIER 2

SHEET 9

346

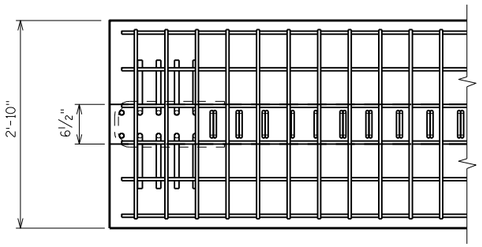
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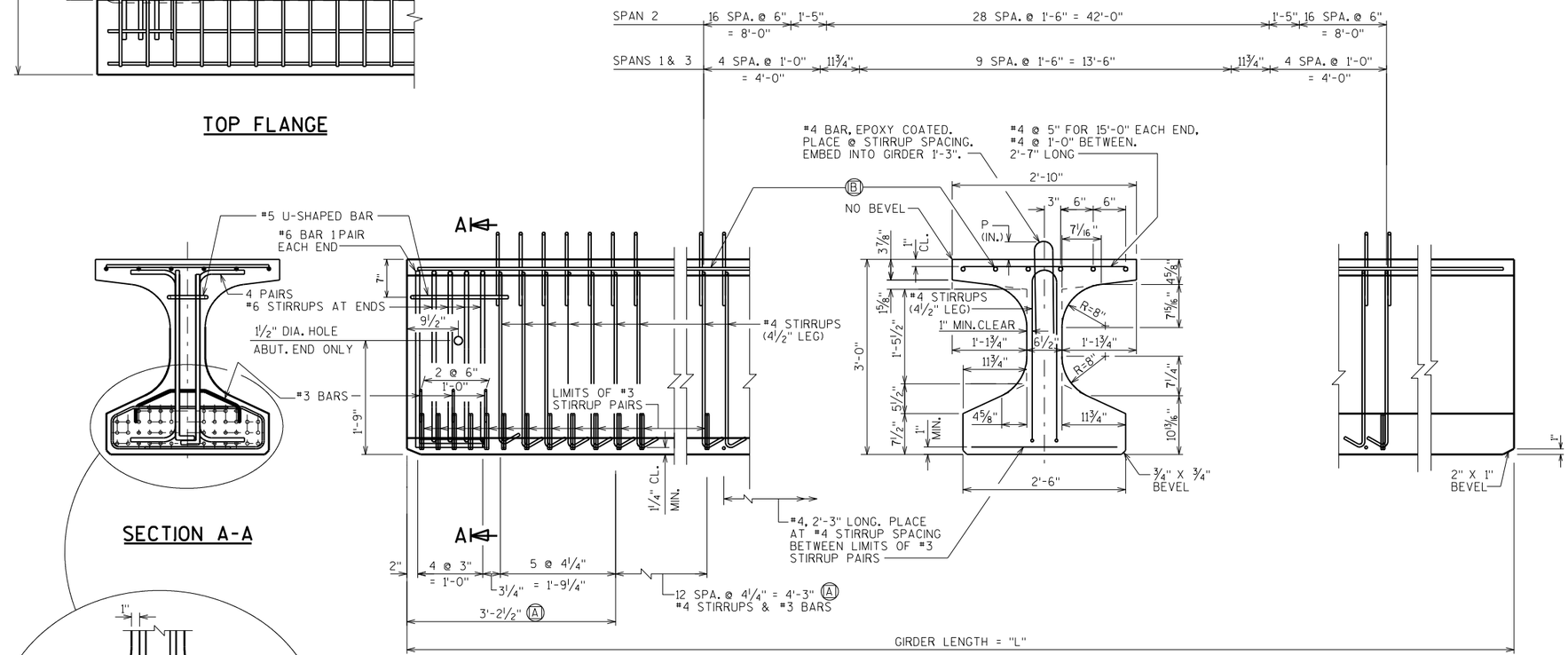
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TOP FLANGE

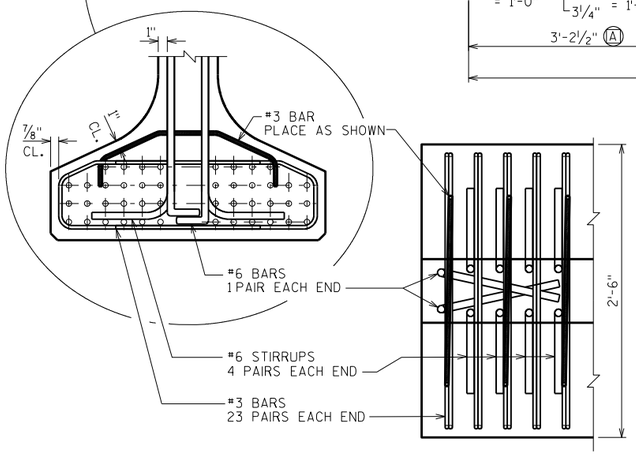


SECTION A-A

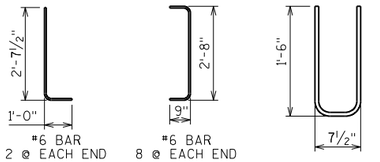
SIDE VIEW & TYPICAL SECTION IN SPAN

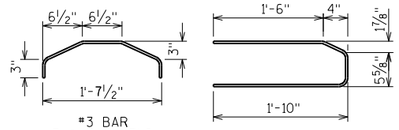
(A) DETAIL TYP. AT EACH END

(B) 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-11" ALL SPANS



BOTTOM FLANGE





NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

STRANDS SHALL BE FLUSH WITH END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

✳ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.)									CONC. STRGTH. f'c (p.s.i.)	"P" 1ST ⅓ OF GIRDER	"P" MID ⅓ OF GIRDER	"P" END ⅓ OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN						UNDRAPED PATTERN	
			1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10						TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳
1	ALL	38.375	0.03	0.05	0.07	0.08	0.09	0.08	0.07	0.05	0.03	8,000	7"	7"	8"	0.6"							16	6,400
2	ALL	75.75	0.4	0.8	1.1	1.3	1.4	1.3	1.1	0.8	0.4	8,000	8"	7"	8"	0.6"	28	6,800	32	11	14	4		
3	ALL	38.375	0.03	0.05	0.07	0.08	0.09	0.08	0.07	0.05	0.03	8,000	8"	7"	7"	0.6"							16	6,400

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STRUCTURE B-39-76

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36W" PRESTRESSED GIRDER DETAILS 1

SHEET 10

347

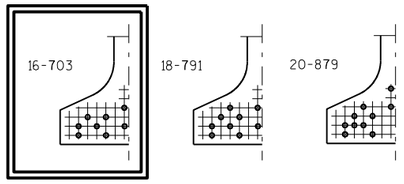
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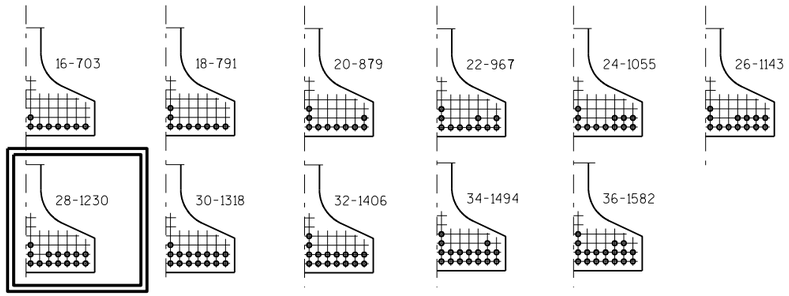
STATE PROJECT NUMBER

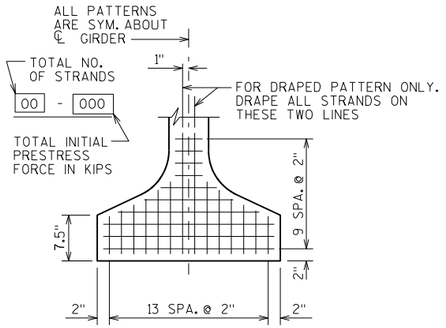
1166-07-76



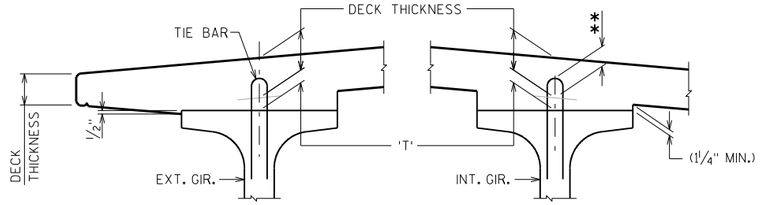
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"Φ STRANDS





TYP. STRAND PATTERN



DECK HAUNCH DETAIL

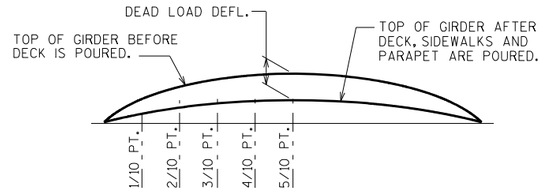
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- DECK THICKNESS
= HAUNCH HEIGHT 'T'

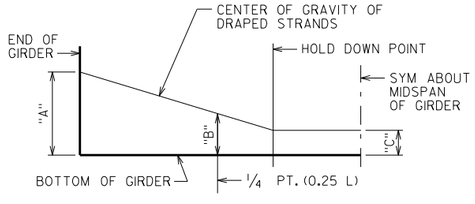
NOTE: AN AVERAGE HAUNCH ('T') OF 2.87" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM

ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"Φ STRANDS



DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN	CAMBER (IN.) *
1	0.52
2	2.81
3	0.52

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

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STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-39-76

DRAWN BY ABS | PLANS CK'D. MJK

36W" PRESTRESSED GIRDER DETAILS 2

SHEET 11

348

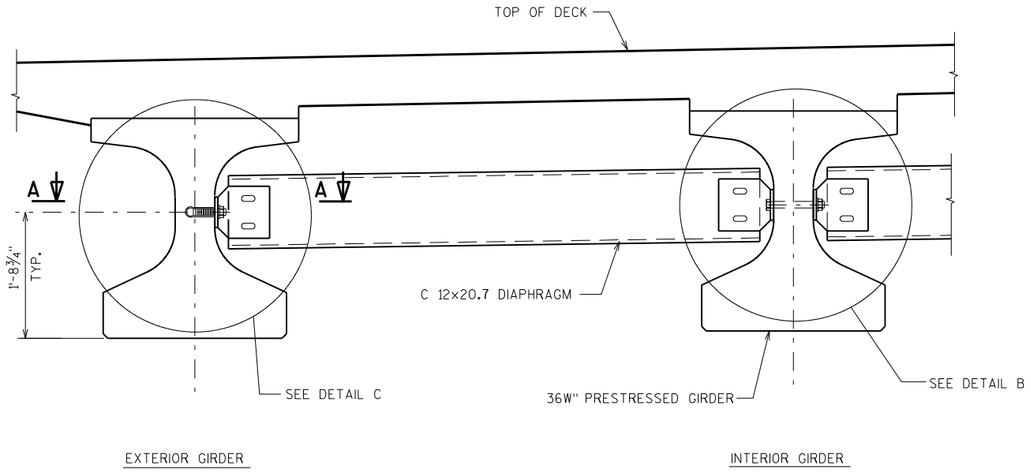
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8

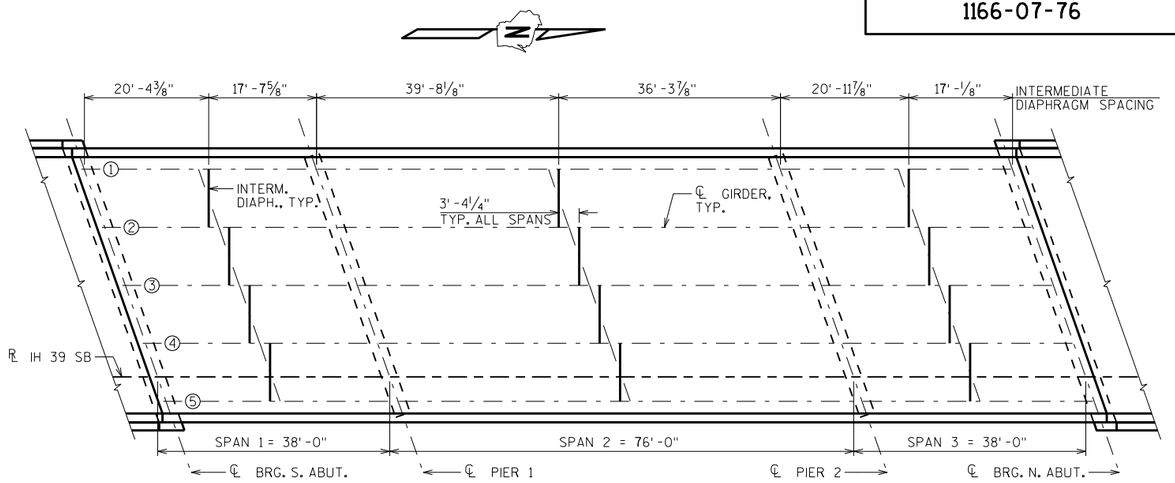
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STATE PROJECT NUMBER

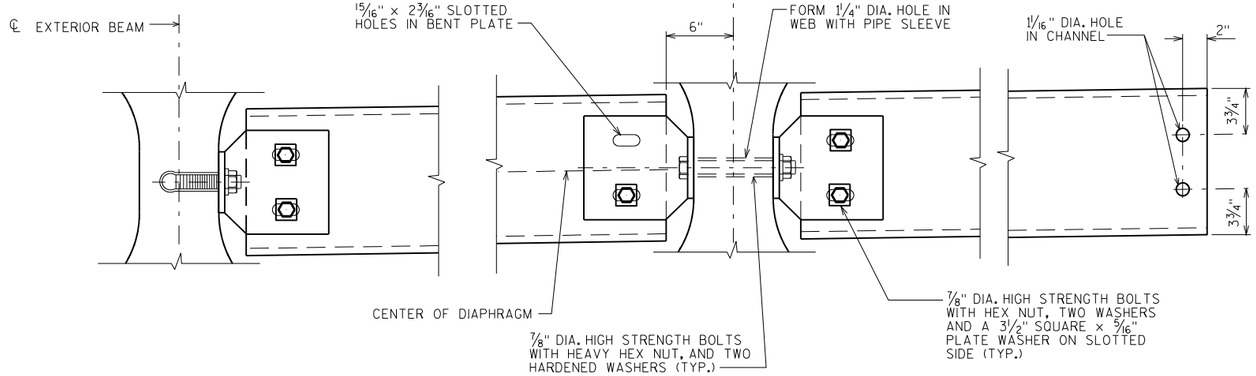
1166-07-76



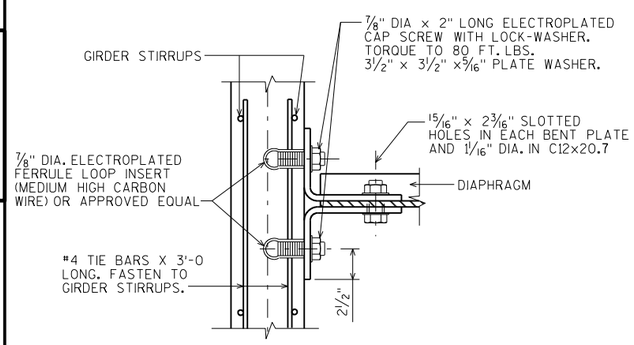
PART TRANSVERSE SECTION AT DIAPHRAGM



DIAPHRAGM FRAMING PLAN



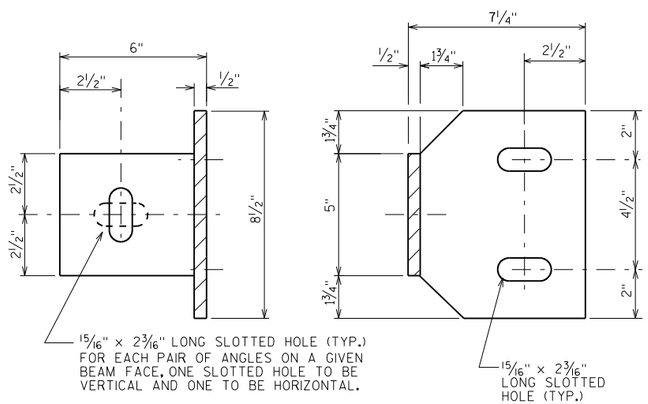
DETAIL C

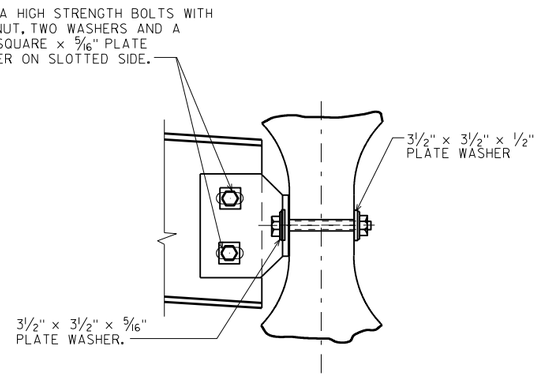


SECTION A-A

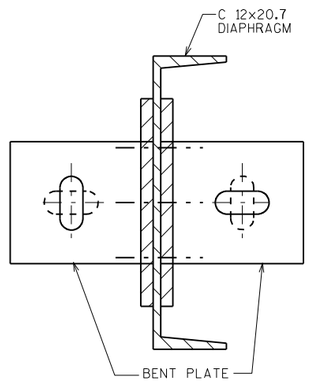
(FOR EXTERIOR ATTACHMENT)

DETAIL B





SECTION AT INTERIOR GIRDERS THRU DIAPHRAGM FOR SKEW ANGLES > 10°



ATTACHMENT TO CHANNEL

NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-39-76", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

ALL DIAPHRAGM STRUCTURAL STEEL SHOWN SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563. LUBRICANT AND TEST FOR COATED NUTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-39-76

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STEEL DIAPHRAGMS

SHEET 12

349

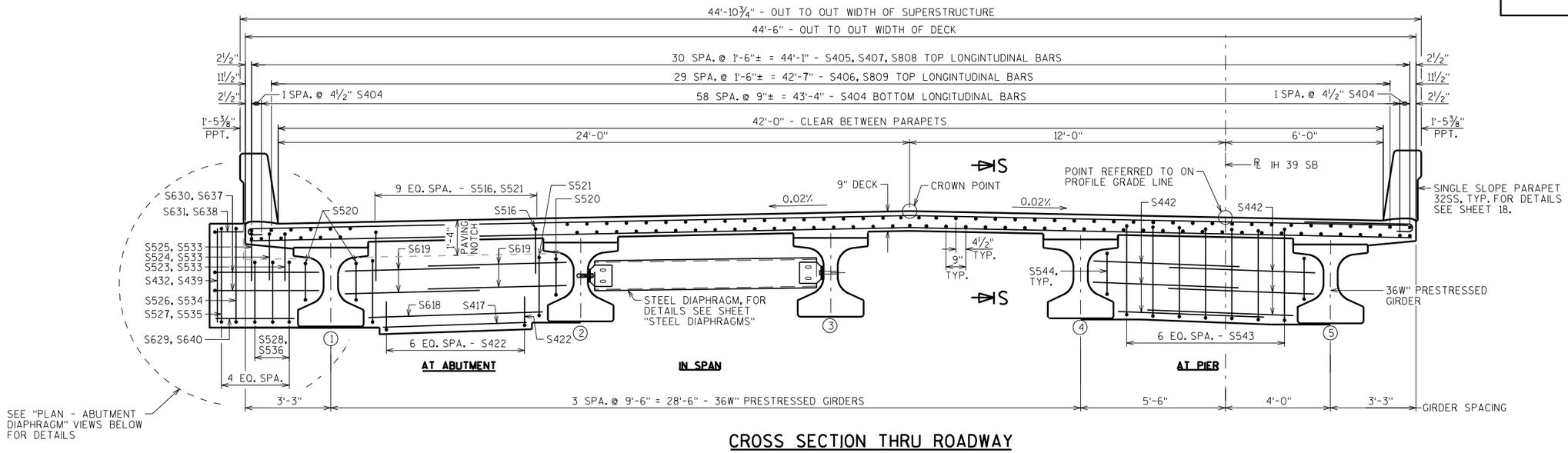
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8

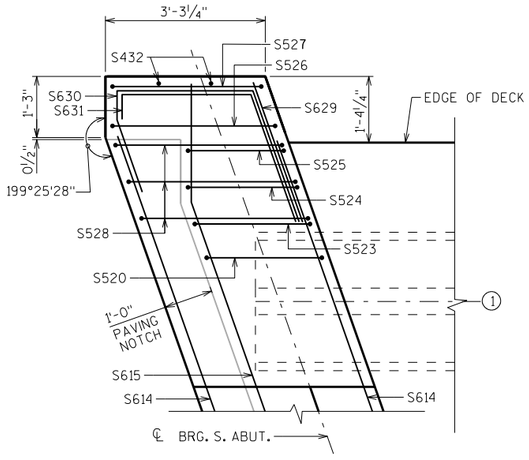
STATE PROJECT NUMBER

1166-07-76



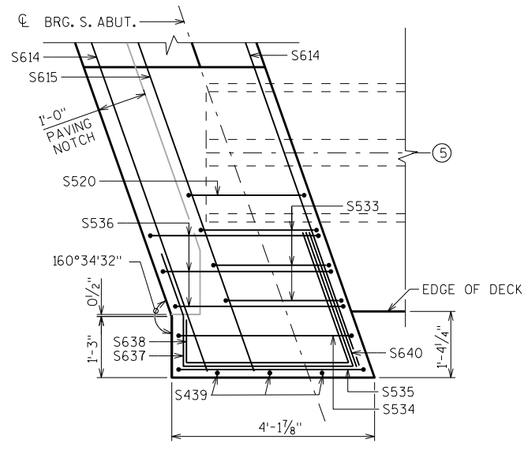
CROSS SECTION THRU ROADWAY

LOOKING NORTH



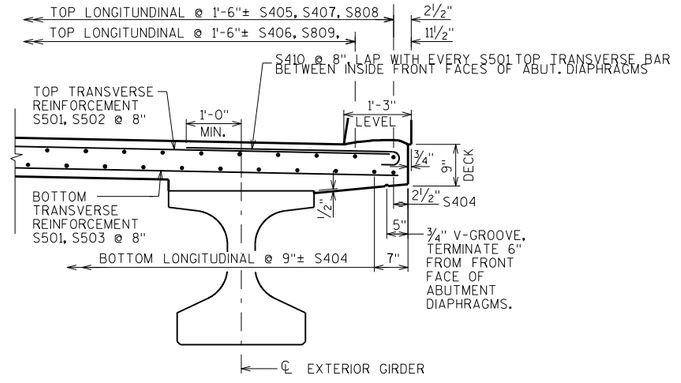
PLAN - ABUTMENT DIAPHRAGM

WING 2 SHOWN
WING 4 SIMILAR



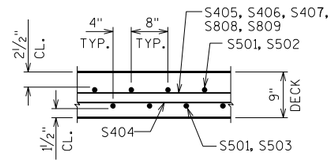
PLAN - ABUTMENT DIAPHRAGM

WING 1 SHOWN
WING 3 SIMILAR



EDGE OF DECK DETAIL

(TYP. AT BOTH EDGES)



SECTION S-S

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-76

DRAWN BY EMK | PLANS CK'D. ABS

SUPERSTRUCTURE CROSS SECTION

SHEET 13

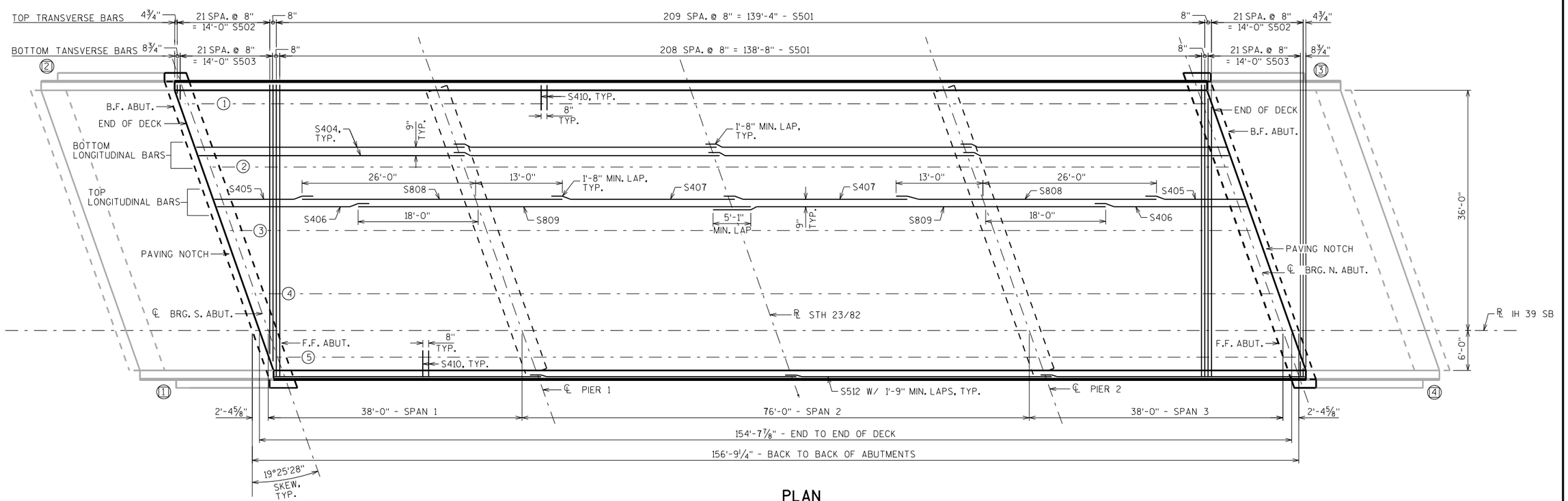
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8

STATE PROJECT NUMBER
1166-07-76



PLAN

TOP OF DECK ELEVATIONS

	SPAN 1											SPAN 2											SPAN 3										
	S. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	PIER 1	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	PIER 2	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	N. ABUT.
WEST EOD	868.75	868.73	868.70	868.67	868.64	868.62	868.59	868.56	868.54	868.51	868.48	868.43	868.37	868.32	868.26	868.21	868.15	868.10	868.04	867.99	867.93	867.91	867.88	867.85	867.82	867.80	867.77	867.74	867.71	867.69	867.66
℄ GIR. 1	868.79	868.76	868.73	868.71	868.68	868.65	868.62	868.60	868.57	868.54	868.52	868.46	868.41	868.35	868.30	868.24	868.19	868.13	868.08	868.02	867.97	867.94	867.91	867.89	867.86	867.83	867.80	867.78	867.75	867.72	867.69
℄ GIR. 2	868.95	868.93	868.90	868.87	868.85	868.82	868.79	868.76	868.74	868.71	868.68	868.63	868.57	868.52	868.46	868.41	868.35	868.30	868.24	868.19	868.13	868.11	868.08	868.05	868.02	868.00	867.97	867.94	867.92	867.89	867.86
℄ GIR. 3	869.12	869.09	869.07	869.04	869.01	868.98	868.96	868.93	868.90	868.87	868.85	868.79	868.74	868.68	868.63	868.57	868.52	868.46	868.41	868.35	868.30	868.27	868.25	868.22	868.19	868.16	868.14	868.11	868.08	868.05	868.03
CROWN PT.	869.17	869.15	869.12	869.09	869.06	869.04	869.01	868.98	868.95	868.93	868.90	868.84	868.79	868.74	868.68	868.63	868.57	868.52	868.46	868.41	868.35	868.32	868.30	868.27	868.24	868.22	868.19	868.16	868.13	868.11	868.08
℄ GIR. 4	869.03	869.00	868.97	868.94	868.92	868.89	868.86	868.84	868.81	868.78	868.75	868.70	868.64	868.59	868.53	868.48	868.42	868.37	868.32	868.26	868.21	868.18	868.15	868.12	868.10	868.07	868.04	868.01	867.99	867.96	867.93
℄ GIR. 5	868.81	868.79	868.76	868.73	868.70	868.68	868.65	868.62	868.59	868.57	868.54	868.48	868.43	868.37	868.32	868.27	868.21	868.16	868.10	868.05	867.99	867.96	867.94	867.91	867.88	867.85	867.83	867.80	867.77	867.75	867.72
EAST EOD	868.77	868.74	868.71	868.69	868.66	868.63	868.60	868.58	868.55	868.52	868.49	868.44	868.38	868.33	868.27	868.22	868.17	868.11	868.06	868.00	867.95	867.92	867.89	867.86	867.84	867.81	867.78	867.76	867.73	867.70	867.67

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

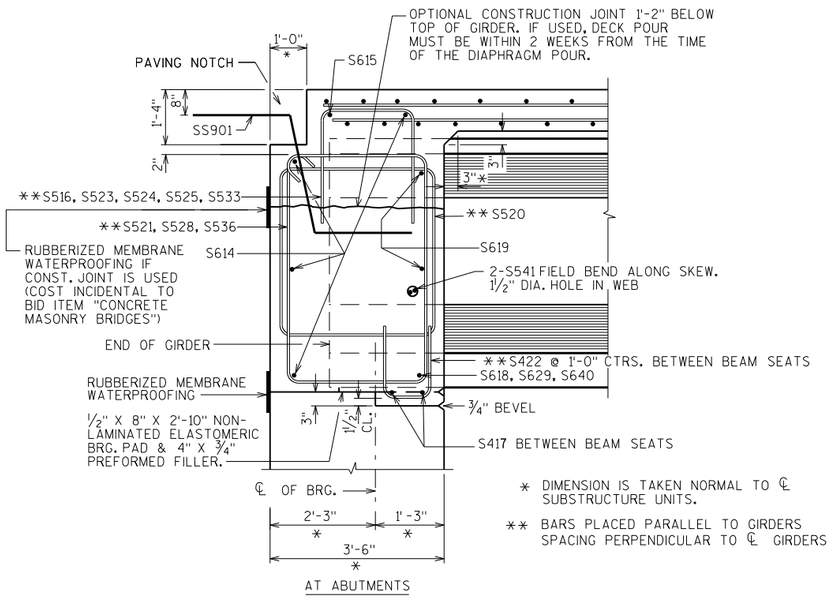
STRUCTURE B-39-76

DRAWN BY EMK | PLANS CK'D. ABS

SUPERSTRUCTURE | SHEET 14

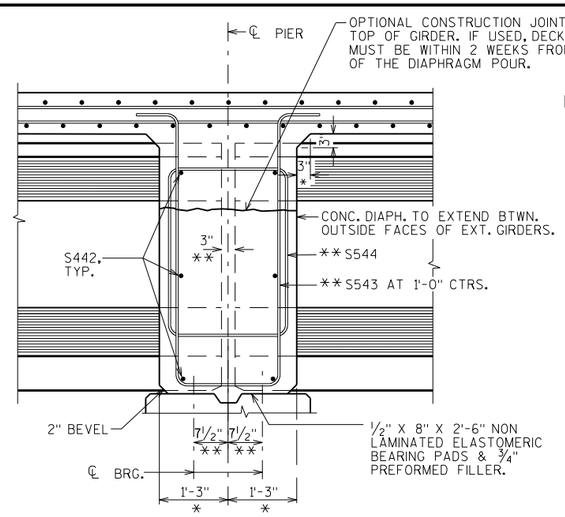
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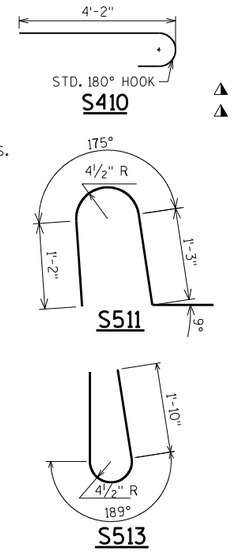


AT ABUTMENTS

PART LONGIT. SECTION



AT PIER DIAPHRAGM

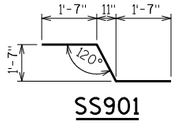


NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

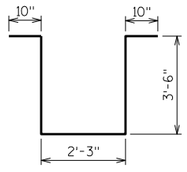
BILL OF BARS

	BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
	S501	X	419	44'-2"			DECK - TOP AND BOT. HORIZ. - TRANS.
⚠	S502	X	44	21'-7"		X	DECK - TOP HORIZ. - TRANS.
⚠	S503	X	44	22'-6"		X	DECK - BOT. HORIZ. - TRANS.
	S404	X	244	39'-10"			DECK - BOT. HORIZ. - LONGIT.
	S405	X	62	14'-10"			DECK - TOP HORIZ. - LONGIT. - SPANS 1 & 3
	S406	X	60	22'-10"			DECK - TOP HORIZ. - LONGIT. - SPANS 1 & 3
	S407	X	62	27'-6"			DECK - TOP HORIZ. - LONGIT. - SPAN 2
	S808	X	62	39'-0"			DECK - TOP HORIZ. - LONGIT. - CONTINUITY OVER PIERS
	S809	X	60	58'-7"			DECK - TOP HORIZ. - LONGIT. - CONTINUITY OVER PIERS
	S410	X	444	4'-8"	X		DECK - TOP VERT. - TRANS. - HOOK BARS
	S511	X	466	4'-5"	X		PARAPET/DECK - VERT. - TRANS.
	S512	X	48	39'-11"			PARAPET - HORIZ. - LONGIT.
	S513	X	466	5'-0"	X		PARAPET - VERT. - TRANS.
	S614	X	8	48'-7"			ABUT. DIAPHRAGM - HORIZ.
	S615	X	2	49'-5"	X		ABUT. DIAPHRAGM - HORIZ. - AT PAVING NOTCH
	S516	X	80	6'-6"	X		ABUT. DIAPHRAGM - VERT. - BTWN. GIRDERS
	S417	X	16	6'-0"			ABUT. DIAPHRAGM - HORIZ. - BTWN. GIRDERS
	S618	X	8	7'-0"			ABUT. DIAPHRAGM - HORIZ. - BTWN. GIRDERS
	S619	X	32	5'-8"			ABUT. DIAPHRAGM - HORIZ. - BTWN. GIRDERS
	S520	X	20	10'-2"	X		ABUT. DIAPHRAGM - STIRRUP - AT GIRDERS
	S521	X	80	11'-10"	X		ABUT. DIAPHRAGM - STIRRUP - BTWN. GIRDERS
	S422	X	56	3'-3"	X		ABUT. DIAPHRAGM - VERT. - BTWN. GIRDERS
	S523	X	2	6'-6"	X		ABUT. DIAPHRAGM - VERT. - ENDS - WINGS 2 & 4
	S524	X	2	6'-5"	X		ABUT. DIAPHRAGM - VERT. - ENDS - WINGS 2 & 4
	S525	X	2	6'-2"	X		ABUT. DIAPHRAGM - VERT. - ENDS - WINGS 2 & 4
	S526	X	2	14'-2"	X		ABUT. DIAPHRAGM - VERT. - ENDS - WINGS 2 & 4
	S527	X	2	13'-6"	X		ABUT. DIAPHRAGM - VERT. - ENDS - WINGS 2 & 4
	S528	X	6	11'-10"	X		ABUT. DIAPHRAGM - VERT. - ENDS - WINGS 2 & 4
	S629	X	2	3'-0"			ABUT. DIAPHRAGM - HORIZ. - ENDS - WINGS 2 & 4
	S630	X	4	8'-10"	X		ABUT. DIAPHRAGM - HORIZ. - ENDS - WINGS 2 & 4
	S631	X	2	6'-8"	X		ABUT. DIAPHRAGM - HORIZ. - ENDS - WINGS 2 & 4
	S432	X	2	3'-6"			ABUT. DIAPHRAGM - VERT. - ENDS - WINGS 2 & 4
	S533	X	6	6'-6"	X		ABUT. DIAPHRAGM - VERT. - ENDS - WINGS 1 & 3
	S534	X	2	14'-6"	X		ABUT. DIAPHRAGM - VERT. - ENDS - WINGS 1 & 3
	S535	X	2	15'-0"	X		ABUT. DIAPHRAGM - VERT. - ENDS - WINGS 1 & 3
	S536	X	6	11'-10"	X		ABUT. DIAPHRAGM - VERT. - ENDS - WINGS 1 & 3
	S637	X	4	8'-6"	X		ABUT. DIAPHRAGM - HORIZ. - ENDS - WINGS 1 & 3
	S638	X	2	7'-6"	X		ABUT. DIAPHRAGM - HORIZ. - ENDS - WINGS 1 & 3
	S439	X	6	3'-6"			ABUT. DIAPHRAGM - VERT. - ENDS - WINGS 1 & 3
	S640	X	2	3'-2"			ABUT. DIAPHRAGM - HORIZ. - ENDS - WINGS 1 & 3
	S541	X	20	6'-0"			ABUT. DIAPHRAGM - HORIZ. - THRU GIRDER
	S442	X	96	5'-4"			PIER. DIAPHRAGM - HORIZ. - BTWN. GIRDERS
	S543	X	56	10'-5"	X		PIER. DIAPHRAGM - VERT. - BTWN. GIRDERS
	S544	X	16	7'-10"	X		PIER. DIAPHRAGM - VERT. - BTWN. GIRDERS
STAINLESS STEEL →	SS901	X	92	5'-0"	X		ABUT. DIAPH./APPROACH SLAB TIE

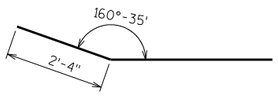
⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



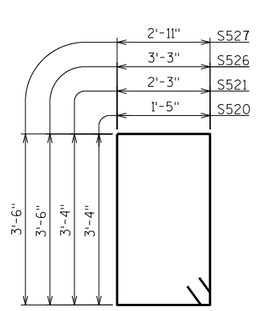
S901



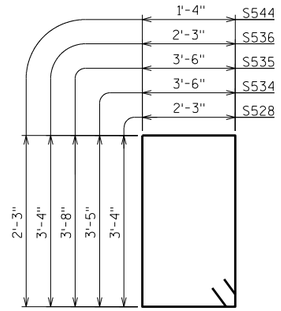
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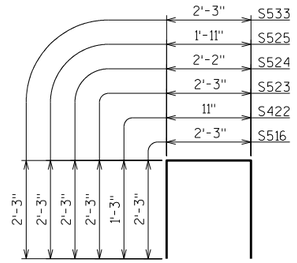
S615



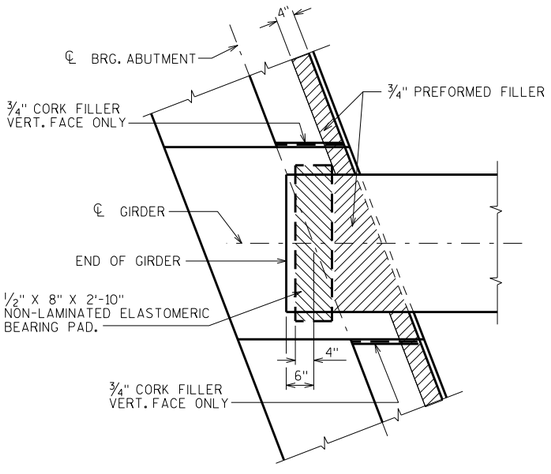
S520, S521, S526, S527



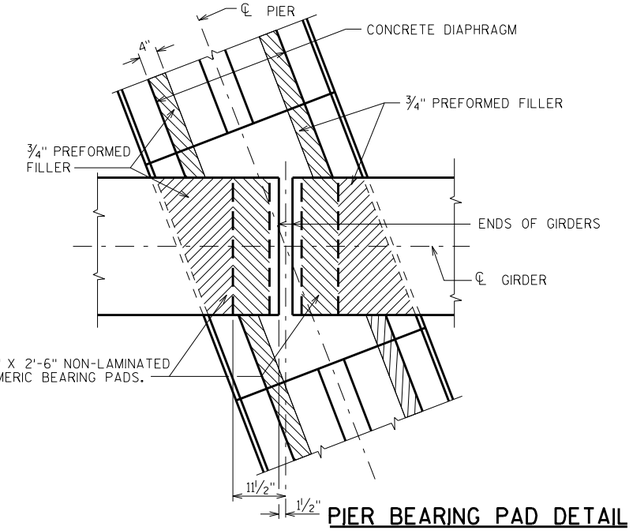
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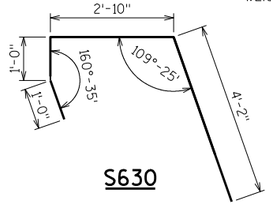
S516, S422, S523
S524, S525, S533



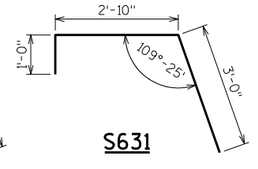
ABUTMENT BEARING PAD DETAIL



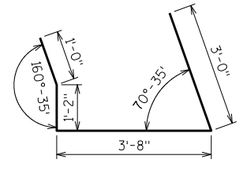
PIER BEARING PAD DETAIL



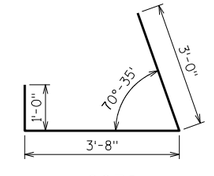
S630



S631



S637



S638

BAR SERIES TABLE

MARK	NO. REQD.	LENGTH
S502	2 SERIES OF 22	41'-5" TO 1'-9"
S503	2 SERIES OF 22	42'-5" TO 2'-8"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-76

DRAWN BY EMK | PLANS CK'D. ABS

SUPERSTRUCTURE DETAILS

SHEET 15

352

STATE PROJECT NUMBER

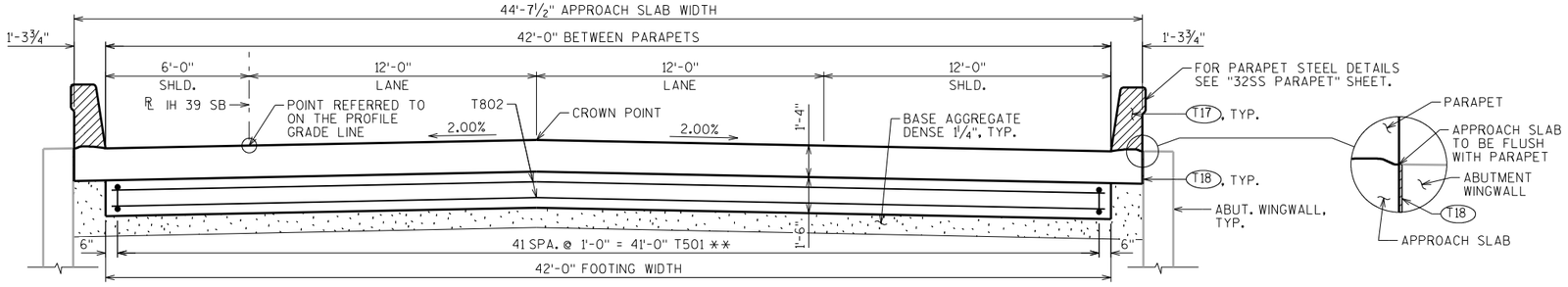
1166-07-76

SCALE = 1.333

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8

STATE PROJECT NUMBER
1166-07-76



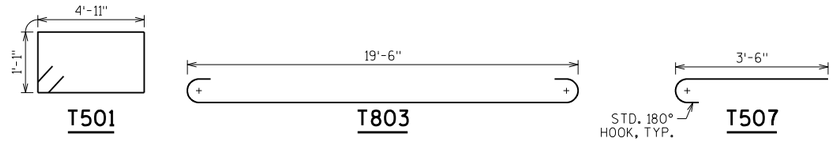
CROSS SECTION THRU ROADWAY - LOOKING SOUTH

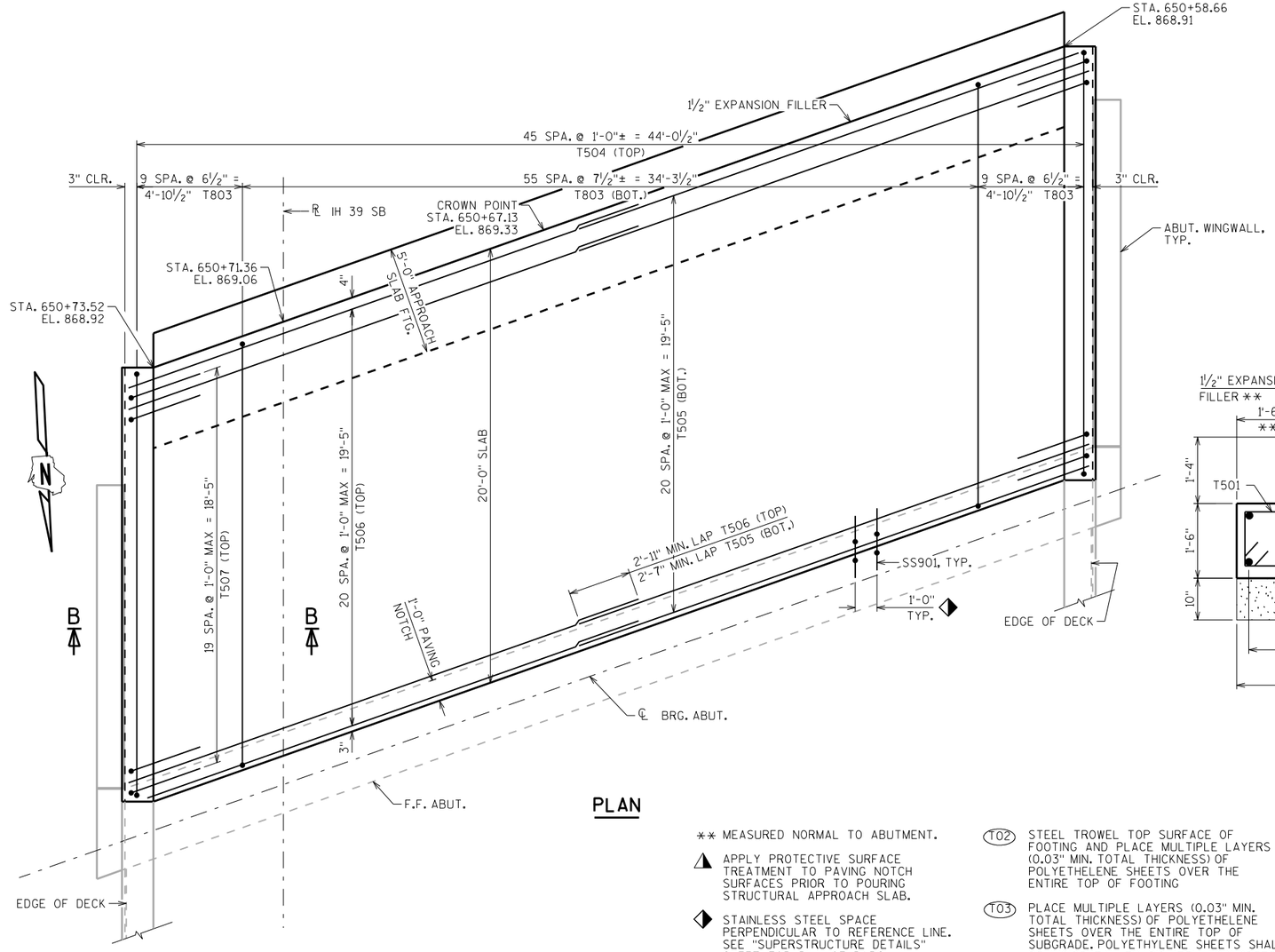
(SHOWING FOOTING STEEL ONLY)

BILL OF BARS

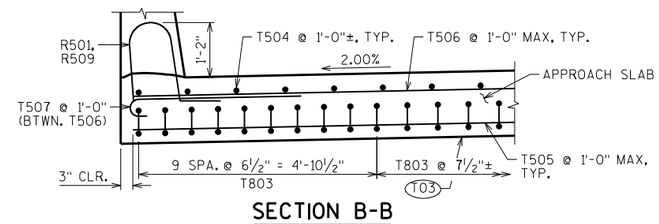
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
T501	X	42	12'-8"	X		APPROACH SLAB FOOTING - STIRRUPS
T802	X	12	44'-0"			APPROACH SLAB FOOTING - TRANS.
T803	X	74	21'-4"	X		APPROACH SLAB - LONG. - BOTTOM
T504	X	46	19'-6"			APPROACH SLAB - LONG. - TOP
T505	X	42	24'-10"			APPROACH SLAB - TRANS. - BOTTOM
T506	X	42	25'-0"			APPROACH SLAB - TRANS. - TOP
T507	X	40	4'-1"	X		APPROACH SLAB - TRANS. - TOP - WING

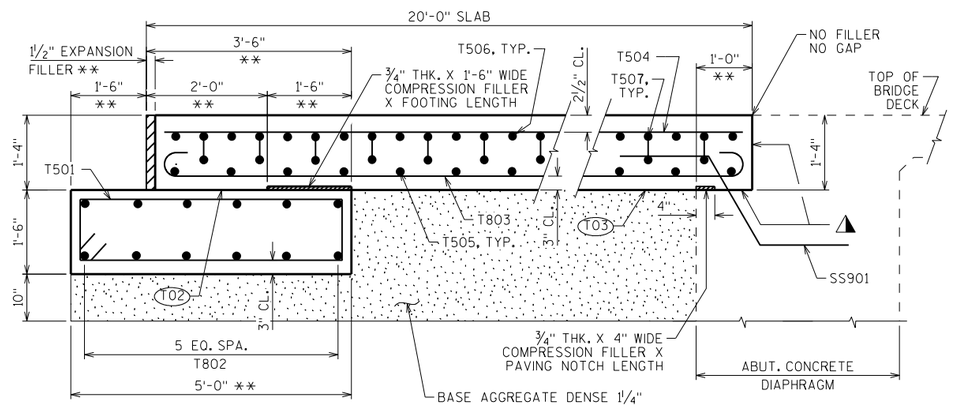




PLAN



SECTION B-B



SECTION THRU APPROACH SLAB

** MEASURED NORMAL TO ABUTMENT.

◭ APPLY PROTECTIVE SURFACE TREATMENT TO PAVING NOTCH SURFACES PRIOR TO POURING STRUCTURAL APPROACH SLAB.

◆ STAINLESS STEEL SPACE PERPENDICULAR TO REFERENCE LINE. SEE "SUPERSTRUCTURE DETAILS" SHEET FOR BILL OF BARS.

(T02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THICKNESS) OF POLYETHELENE SHEETS OVER THE ENTIRE TOP OF FOOTING

(T03) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THICKNESS) OF POLYETHELENE SHEETS OVER THE ENTIRE TOP OF SUBGRADE. POLYETHYLENE SHEETS SHALL BE INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".

(T17) ½" FILLER (INCLUDED IN PARAPET LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

(T18) ½" FILLER PLACED BTWN. ABUT. WINGWALL AND APPROACH SLAB: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-76

DRAWN BY ABS | PLANS CK'D. ABS

SOUTH APPROACH SLAB DETAILS

SHEET 16

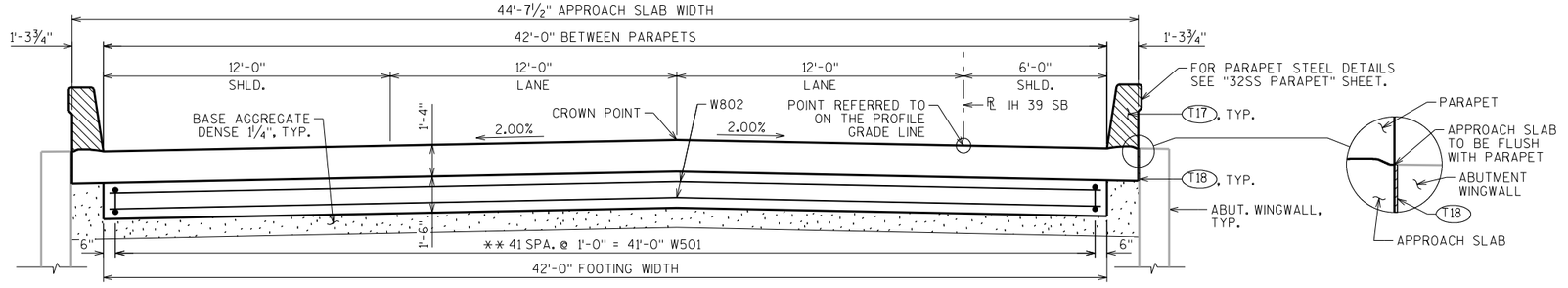
353

SCALE = 3.0

8

8

STATE PROJECT NUMBER
1166-07-76



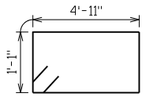
CROSS SECTION THRU ROADWAY - LOOKING NORTH

(SHOWING FOOTING STEEL ONLY)

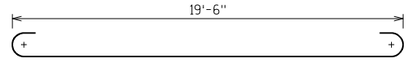
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

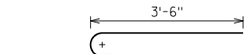
BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
W501	X	42	12'-8"	X		APPROACH SLAB FOOTING - STIRRUPS
W802	X	12	44'-0"			APPROACH SLAB FOOTING - TRANS.
W803	X	74	21'-4"	X		APPROACH SLAB - LONG. - BOTTOM
W504	X	46	19'-6"			APPROACH SLAB - LONG. - TOP
W505	X	42	24'-10"			APPROACH SLAB - TRANS. - BOTTOM
W506	X	42	25'-0"			APPROACH SLAB - TRANS. - TOP
W507	X	40	4'-1"	X		APPROACH SLAB - TRANS. - TOP - WING



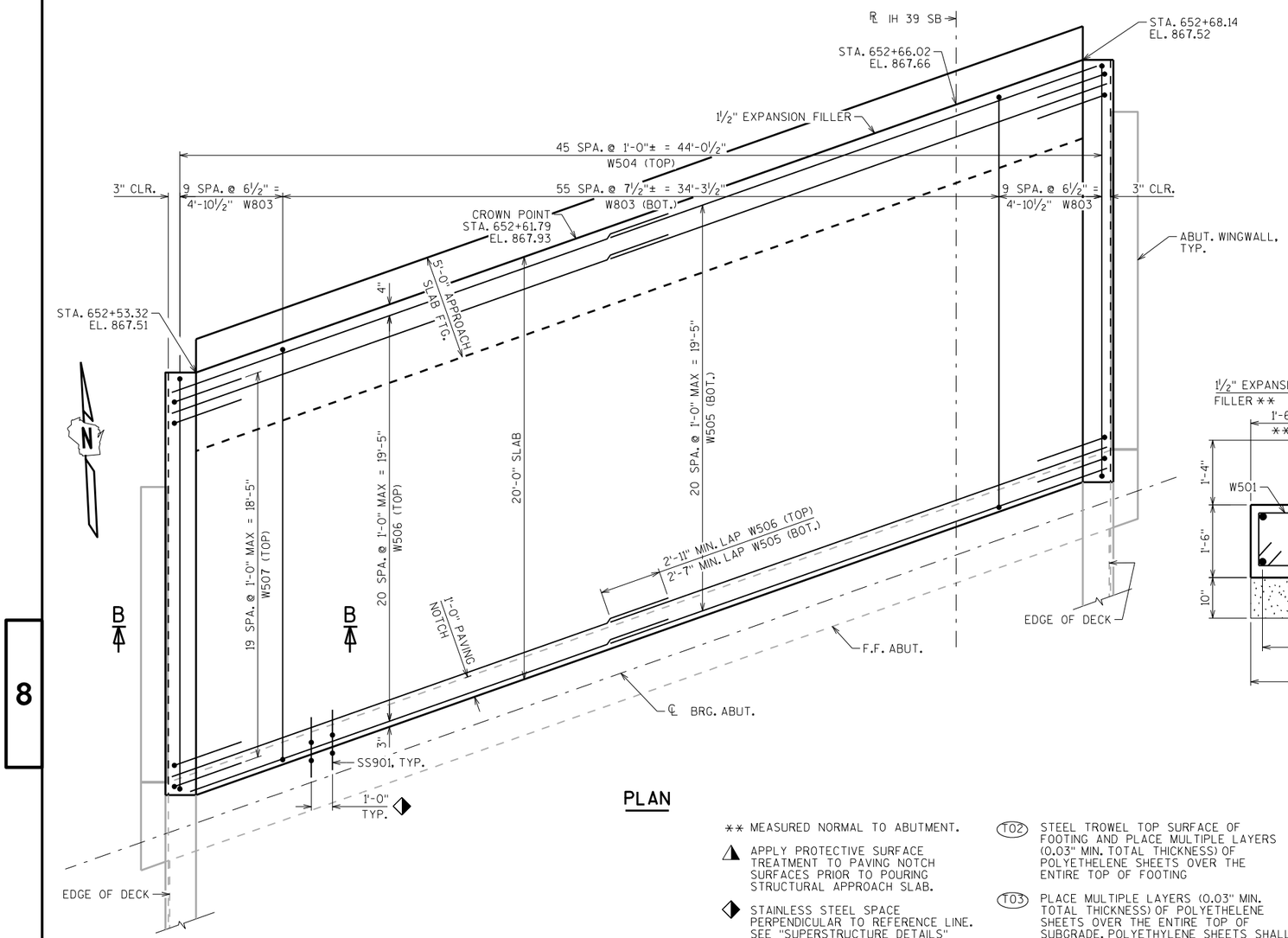
W501



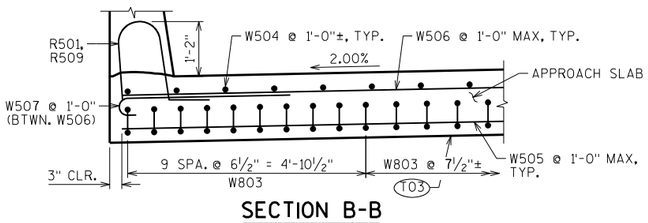
W803



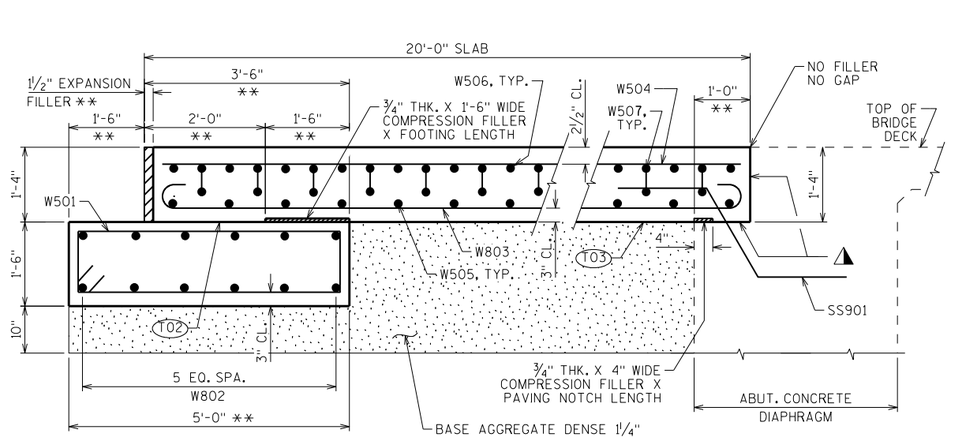
W507



PLAN



SECTION B-B



SECTION THRU APPROACH SLAB

** MEASURED NORMAL TO ABUTMENT.

◭ APPLY PROTECTIVE SURFACE TREATMENT TO PAVING NOTCH SURFACES PRIOR TO POURING STRUCTURAL APPROACH SLAB.

◆ STAINLESS STEEL SPACE PERPENDICULAR TO REFERENCE LINE. SEE "SUPERSTRUCTURE DETAILS" SHEET FOR BILL OF BARS.

(T02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THICKNESS) OF POLYETHELENE SHEETS OVER THE ENTIRE TOP OF FOOTING

(T03) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THICKNESS) OF POLYETHELENE SHEETS OVER THE ENTIRE TOP OF SUBGRADE. POLYETHYLENE SHEETS SHALL BE INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY BRIDGES".

(T17) ½" FILLER (INCLUDED IN PARAPET LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

(T18) ½" FILLER PLACED BTWN. ABUT. WINGWALL AND APPROACH SLAB: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-76

DRAWN BY ABS | PLANS CK'D. ABS

NORTH APPROACH SLAB DETAILS

SHEET 17

354

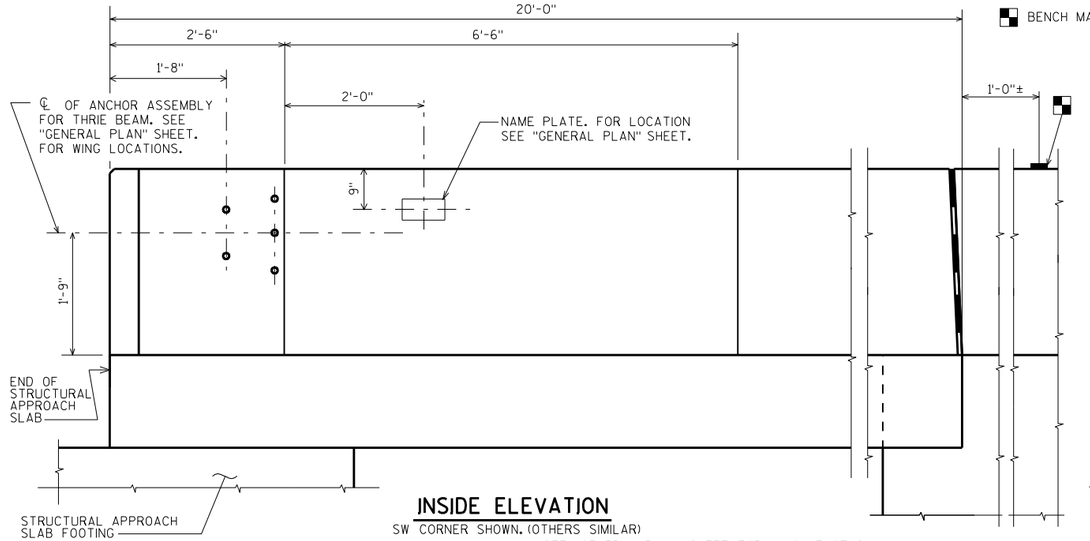
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8

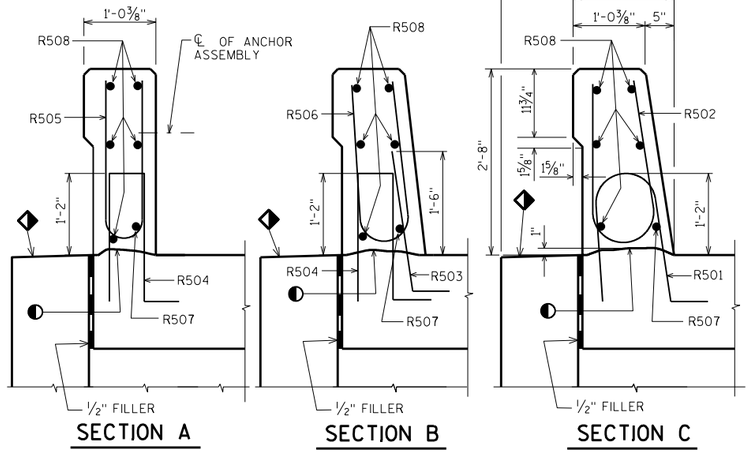
STATE PROJECT NUMBER

1166-07-76



INSIDE ELEVATION

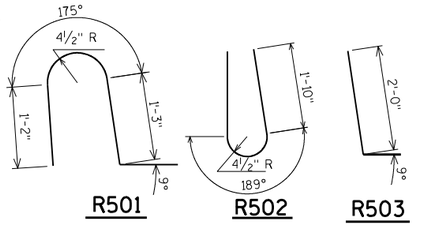
SW CORNER SHOWN. (OTHERS SIMILAR)

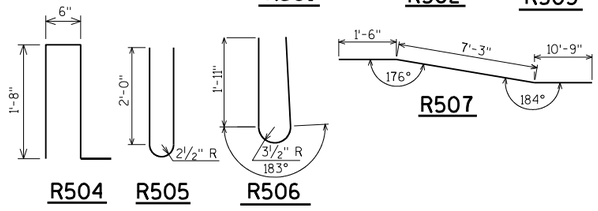


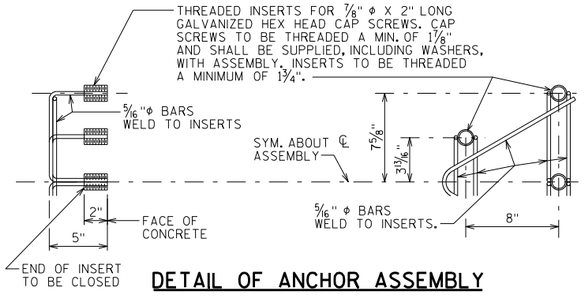
BILL OF BARS

FOR STRUCTURAL APPROACH SLAB PARAPETS

BAR MARK	COAT	S. ABUT.	N. ABUT.	LENGTH	BENT	BAR SERIES	LOCATION
R501	X	34	34	4-5	X		PARAPET VERT.
R502	X	34	34	5-0	X		PARAPET VERT.
R503	X	24	24	2-9	X		PARAPET VERT.
R504	X	34	34	4-4	X		PARAPET VERT.
R505	X	22	22	4-9	X		PARAPET VERT.
R506	X	12	12	4-10	X		PARAPET VERT.
R507	X	2	2	19-6	X		PARAPET HORIZ.
R508	X	10	10	19-6			PARAPET HORIZ.



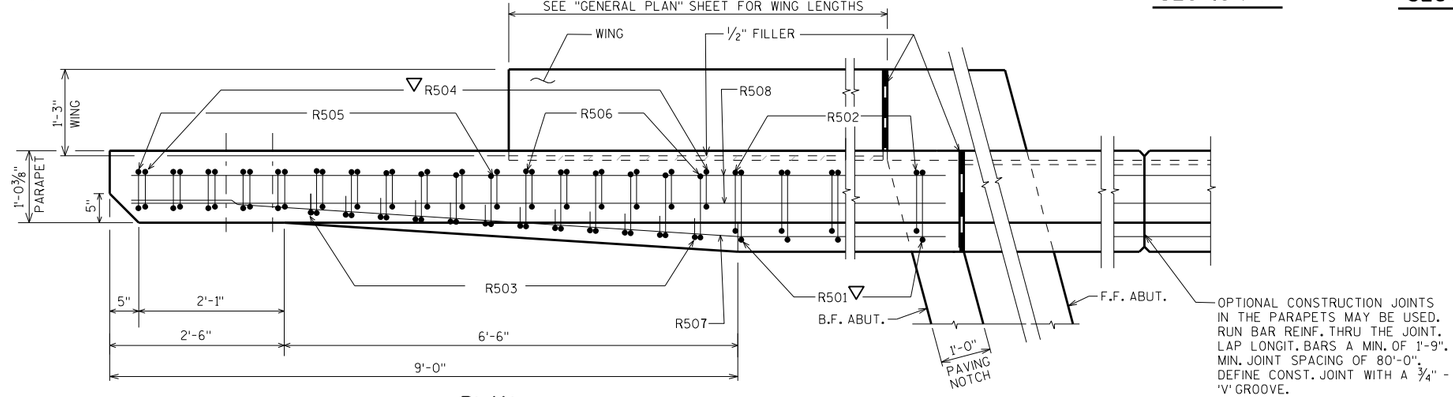




DETAIL OF ANCHOR ASSEMBLY

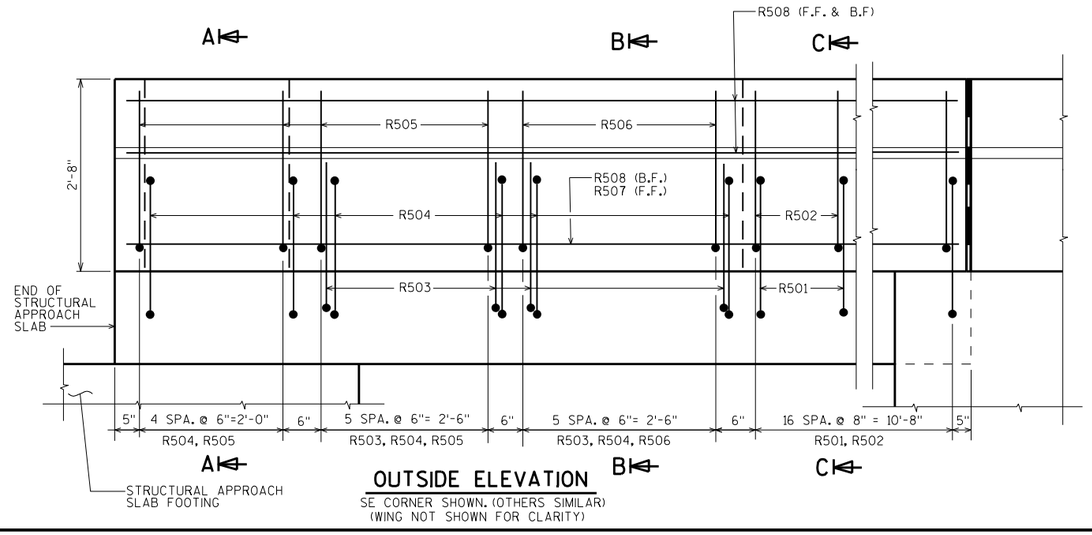
NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.



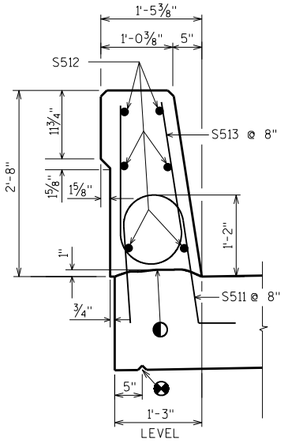
PLAN

SW CORNER SHOWN. (OTHERS SIMILAR)



OUTSIDE ELEVATION

SE CORNER SHOWN. (OTHERS SIMILAR)
(WING NOT SHOWN FOR CLARITY)



SECTION THRU PARAPET ON BRIDGE

- ¾" V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT DIAPHRAGM.
- SLOPE FOR DRAINAGE
- CONST. JOINT - STRIKE OFF AS SHOWN.
- R501 AND R504 BARS TO BE TIED TO STRUCTURAL APPROACH SLAB STEEL BEFORE STRUCTURAL APPROACH SLAB IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-76

DRAWN BY: ABS | PLANS CK'D.: ABS

SINGLE SLOPE PARAPET 32SS WITH STRUCTURAL APPROACH SLAB

SHEET 18

355

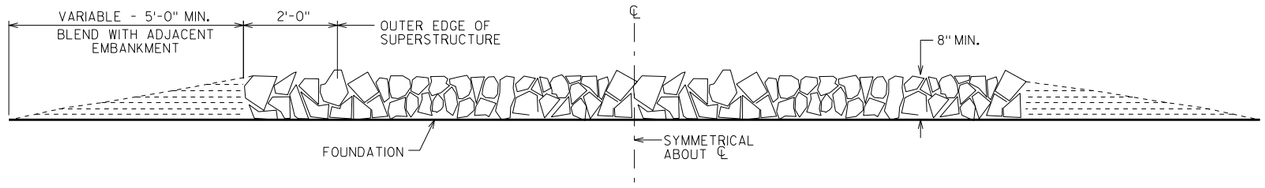
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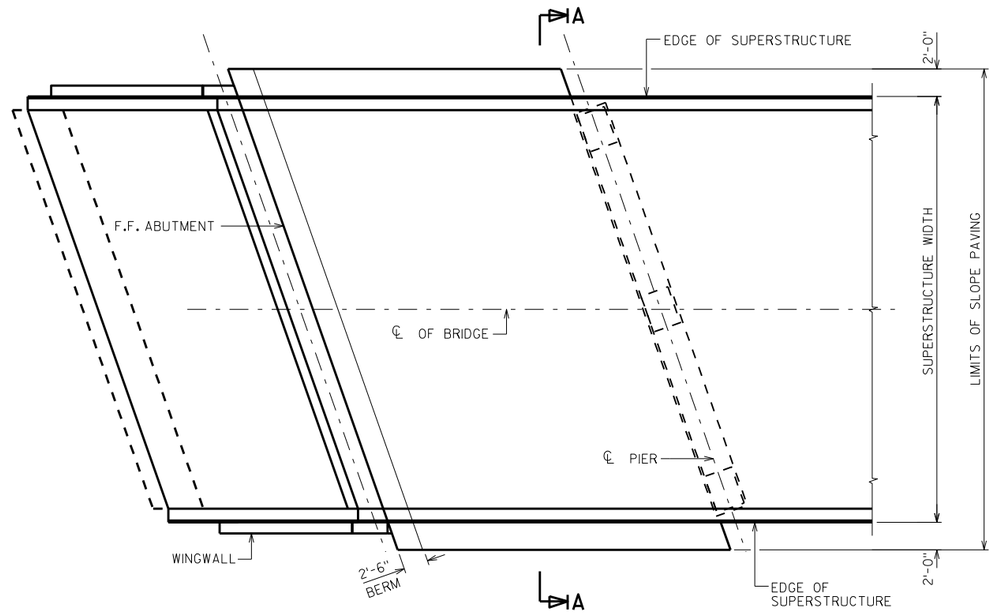
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STATE PROJECT NUMBER

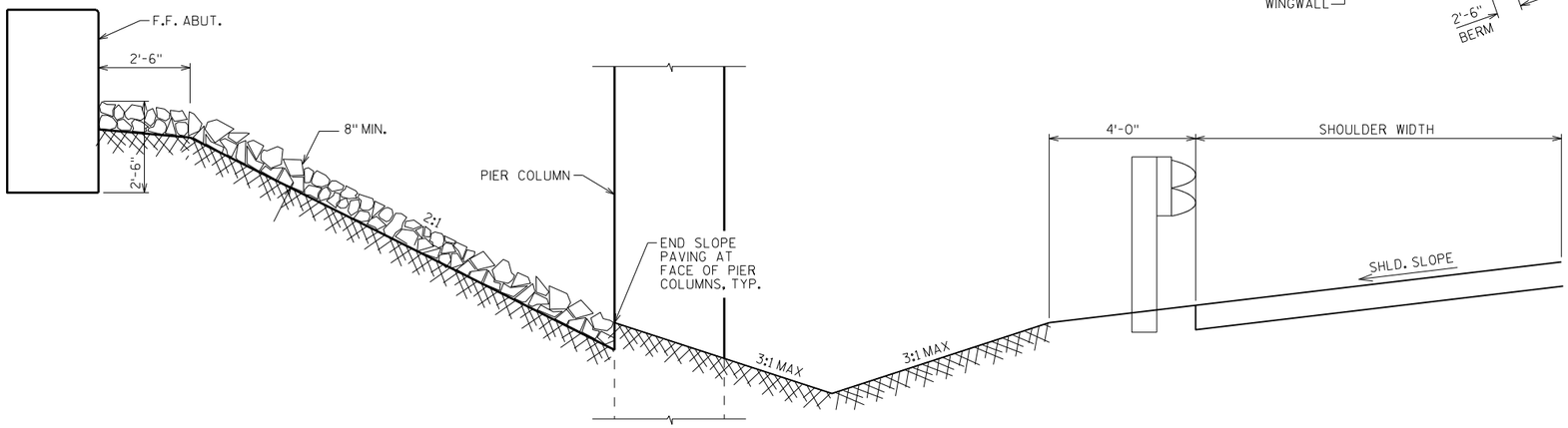
1166-07-76



SECTION A-A



PLAN



STANDARD CROSS SECTION

GENERAL NOTES

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

WOOD FORMS MAY BE LEFT IN PLACE WHEN OF A QUALITY ACCEPTABLE TO THE ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-39-76

DRAWN BY ABS | PLANS CK'D. ABS

SLOPE PAVING (SELECT CRUSHED MATERIAL)

SHEET 19

356

SCALE = 1.0

8

8

IH 39 SOUTHBOUND

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Expanded Rock 1.10	Expanded EBS Backfill 1.30 Note 5	Reduced Marsh in Fill 0.60 Note 6	Reduced EBS In Fill 0.80 Note 7	Mass Ordinate Note 8
638'SB'+00	63800		117.94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
639'SB'+00	63900	100	111.14	0	0	0	0	0	424	0	0	0	0	0	424	0	0	0	0	0	0	424
640'SB'+00	64000	100	82	0	0.09	0	0	0	358	0	0	0	0	0	782	0	0	0	0	0	0	782
641'SB'+00	64100	100	45.22	0	3.25	0	0	0	236	0	6	0	0	0	1017	8	0	0	0	0	0	1010
642'SB'+00	64200	100	5.66	0	12.62	0	0	0	94	0	29	0	0	0	1112	45	0	0	0	0	0	1067
643'SB'+00	64300	100	0	0	37.48	0	0	0	10	0	93	0	0	0	1122	161	0	0	0	0	0	962
644'SB'+00	64400	100	0	0	60.78	0	0	0	0	0	182	0	0	0	1122	388	0	0	0	0	0	734
645'SB'+00	64500	100	0	0	102.8	0	0	0	0	0	303	0	0	0	1122	767	0	0	0	0	0	355
646'SB'+00	64600	100	0	0	179.9	0	0	0	0	0	523	0	0	0	1122	1421	0	0	0	0	0	-299
647'SB'+00	64700	100	0	0	269.7	0	0	0	0	0	832	0	0	0	1122	2462	0	0	0	0	0	-1340
648'SB'+00	64800	100	0	0	329	0	0	0	0	0	1109	0	0	0	1122	3848	0	0	0	0	0	-2725
649'SB'+00	64900	100	0	0	309.5	0	0	0	0	0	1182	0	0	0	1122	5326	0	0	0	0	0	-4203
650'SB'+00	65000	100	0	0	417.2	0	0	0	0	0	1346	0	0	0	1122	7008	0	0	0	0	0	-5886
650'SB'+58.50	65058.5	59	0	0	842.8	0	0	0	0	0	1365	0	0	0	1122	8714	0	0	0	0	0	-7592
652'SB'+66	65266	208	0	0	341.3	0	0	0	0	0	4550	0	0	0	1122	14401	0	0	0	0	0	-13279
653'SB'+00	65300	34	5.99	0	345.2	0	0	0	4	0	432	0	0	0	1126	14942	0	0	0	0	0	-13816
654'SB'+00	65400	100	14.13	0	371.9	0	0	0	37	0	1328	0	0	0	1163	16601	0	0	0	0	0	-15438
655'SB'+00	65500	100	0	0	375.2	0	0	0	26	0	1383	0	0	0	1189	18331	0	0	0	0	0	-17141
656'SB'+00	65600	100	0	0	287.2	0	0	0	0	0	1227	0	0	0	1189	19864	0	0	0	0	0	-18675
657'SB'+00	65700	100	0	0	160.9	0	0	0	0	0	830	0	0	0	1189	20901	0	0	0	0	0	-19712
658'SB'+00	65800	100	0	0	144.7	0	0	0	0	0	566	0	0	0	1189	21609	0	0	0	0	0	-20419
659'SB'+00	65900	100	0	0	263.9	0	0	0	0	0	757	0	0	0	1189	22554	0	0	0	0	0	-21365
660'SB'+00	66000	100	34.6	0	245.3	0	0	0	64	0	943	0	0	0	1253	23733	0	0	0	0	0	-22480
661'SB'+00	66100	100	80.27	0	246.9	0	0	0	213	0	911	0	0	0	1466	24873	0	0	0	0	0	-23406
662'SB'+00	66200	100	104.21	0	146.3	0	0	0	342	0	728	0	0	0	1808	25783	0	0	0	0	0	-23975
663'SB'+00	66300	100	114.14	0	70.39	0	0	0	404	0	401	0	0	0	2212	26284	0	0	0	0	0	-24072
			Sta. 638SB+00 - Sta 663SB+00 Sub-Totals						2,250	0	21,050	0	0	0								

9

9

PROJECT NUMBER: 1166-07-76 | HWY: IH 39 | COUNTY: MARQUETTE | EARTHWORK - IH 39 SOUTHBOUND | SHEET 357 | E

STATION	Real Station	Distance	AREA (SF)						Incremental Vol (CY) (Unadjusted)						Cumulative Vol (CY)							Mass Ordinate
			Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Expanded Rock	Expanded EBS Backfill	Reduced Marsh in Fill	Reduced EBS In Fill	
									Note 1	Note 2	Note 3				1.00 Note 1	1.25	1.50 Note 4	1.10	1.30 Note 5	0.60 Note 6	0.80 Note 7	Note 8
103'SBT'+56	10356		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104'SBT'+00	10400	44	11.5	0	0	0	0	0	9	0	0	0	0	0	9	0	0	0	0	0	0	9
105'SBT'+00	10500	100	12	0	0	0	0	0	44	0	0	0	0	0	53	0	0	0	0	0	0	53
106'SBT'+00	10600	100	11.48	0	0	0	0	0	43	0	0	0	0	0	96	0	0	0	0	0	0	96
107'SBT'+00	10700	100	12.77	0	0.88	0	0	0	45	0	2	0	0	0	141	2	0	0	0	0	0	139
108'SBT'+00	10800	100	11.23	0	4.4	0	0	0	44	0	10	0	0	0	186	14	0	0	0	0	0	171
109'SBT'+00	10900	100	11.65	0	11.2	0	0	0	42	0	29	0	0	0	228	50	0	0	0	0	0	178
110'SBT'+00	11000	100	12.14	0	16	0	0	0	44	0	50	0	0	0	272	113	0	0	0	0	0	159
111'SBT'+00	11100	100	11.31	0	33.85	0	0	0	43	0	92	0	0	0	316	229	0	0	0	0	0	87
112'SBT'+00	11200	100	12.68	0	27.28	0	0	0	44	0	113	0	0	0	360	370	0	0	0	0	0	-10
113'SBT'+00	11300	100	11.65	0	30.99	0	0	0	45	0	108	0	0	0	405	505	0	0	0	0	0	-100
114'SBT'+00	11400	100	13.34	0	12.02	0	0	0	46	0	80	0	0	0	451	605	0	0	0	0	0	-153
115'SBT'+00	11500	100	11.68	0	19.17	0	0	0	46	0	58	0	0	0	498	677	0	0	0	0	0	-179
116'SBT'+00	11600	100	13.12	0	11.81	0	0	0	46	0	57	0	0	0	544	749	0	0	0	0	0	-205
117'SBT'+00	11700	100	12.16	0	10.51	0	0	0	47	0	41	0	0	0	590	800	0	0	0	0	0	-210
118'SBT'+00	11800	100	16.47	0	11.02	0	0	0	53	0	40	0	0	0	643	850	0	0	0	0	0	-207
119'SBT'+00	11900	100	16.55	0	11.88	0	0	0	61	0	42	0	0	0	705	903	0	0	0	0	0	-199
120'SBT'+00	12000	100	12.81	0	31.05	0	0	0	54	0	80	0	0	0	759	1002	0	0	0	0	0	-244
121'SBT'+00	12100	100	18.32	0	46.81	0	0	0	58	0	144	0	0	0	817	1183	0	0	0	0	0	-366
122'SBT'+00	12200	100	12.71	0	54.69	0	0	0	57	0	188	0	0	0	874	1418	0	0	0	0	0	-544
123'SBT'+00	12300	100	3.04	0	91.91	0	0	0	29	0	271	0	0	0	903	1757	0	0	0	0	0	-854
124'SBT'+00	12400	100	0.19	0	139.2	0	0	0	6	0	428	0	0	0	909	2292	0	0	0	0	0	-1383
125'SBT'+00	12500	100	0	0	158.2	0	0	0	0	0	551	0	0	0	910	2980	0	0	0	0	0	-2071
126'SBT'+00	12600	100	0	0	200.3	0	0	0	0	0	664	0	0	0	910	3810	0	0	0	0	0	-2901
127'SBT'+00	12700	100	0	0	251.6	0	0	0	0	0	837	0	0	0	910	4856	0	0	0	0	0	-3947
128'SBT'+00	12800	100	0	0	309.6	0	0	0	0	0	1039	0	0	0	910	6155	0	0	0	0	0	-5246
129'SBT'+00	12900	100	0	0	313.1	0	0	0	0	0	1153	0	0	0	910	7597	0	0	0	0	0	-6687
130'SBT'+00	13000	100	0	0	348.4	0	0	0	0	0	1225	0	0	0	910	9128	0	0	0	0	0	-8218
131'SBT'+00	13100	100	0	0	367.2	0	0	0	0	0	1325	0	0	0	910	10784	0	0	0	0	0	-9875
132'SBT'+00	13200	100	0.01	0	375	0	0	0	0	0	1374	0	0	0	910	12502	0	0	0	0	0	-11592
133'SBT'+00	13300	100	0.01	0	397.6	0	0	0	0	0	1431	0	0	0	910	14290	0	0	0	0	0	-13381
134'SBT'+00	13400	100	0	0	407.8	0	0	0	0	0	1491	0	0	0	910	16154	0	0	0	0	0	-15245
135'SBT'+00	13500	100	0	0	429.4	0	0	0	0	0	1550	0	0	0	910	18092	0	0	0	0	0	-17183
136'SBT'+00	13600	100	0	0	418.2	0	0	0	0	0	1570	0	0	0	910	20054	0	0	0	0	0	-19145
137'SBT'+00	13700	100	0	0	416.9	0	0	0	0	0	1546	0	0	0	910	21987	0	0	0	0	0	-21078
138'SBT'+00	13800	100	0	0	418.8	0	0	0	0	0	1548	0	0	0	910	23922	0	0	0	0	0	-23012
139'SBT'+00	13900	100	0	0	430.3	0	0	0	0	0	1572	0	0	0	910	25887	0	0	0	0	0	-24978
140'SBT'+00	14000	100	0	0	416.6	0	0	0	0	0	1568	0	0	0	910	27848	0	0	0	0	0	-26938
141'SBT'+00	14100	100	0	0	363	0	0	0	0	0	1444	0	0	0	910	29652	0	0	0	0	0	-28743
142'SBT'+00	14200	100	0.02	0	317.4	0	0	0	0	0	1260	0	0	0	910	31227	0	0	0	0	0	-30317
143'SBT'+00	14300	100	0	0	361.3	0	0	0	0	0	1257	0	0	0	910	32798	0	0	0	0	0	-31888
144'SBT'+00	14400	100	0	0	0	0	0	0	0	0	669	0	0	0	910	33635	0	0	0	0	0	-32725
144'SBT'+87	14487	87	0	0	0	0	0	0	0	0	0	0	0	0	910	33635	0	0	0	0	0	-32725
145'SBT'+20	14520	33	0.01	0	640.8	0	0	0	0	0	392	0	0	0	910	34124	0	0	0	0	0	-33214
146'SBT'+00	14600	80	0	0	320.7	0	0	0	0	0	1424	0	0	0	910	35905	0	0	0	0	0	-34995
147'SBT'+00	14700	100	0	0	356.3	0	0	0	0	0	1254	0	0	0	910	37472	0	0	0	0	0	-36562
148'SBT'+00	14800	100	0	0	324.2	0	0	0	0	0	1260	0	0	0	910	39047	0	0	0	0	0	-38137
149'SBT'+00	14900	100	0	0	308.5	0	0	0	0	0	1172	0	0	0	910	40512	0	0	0	0	0	-39602
150'SBT'+00	15000	100	0	0	357.9	0	0	0	0	0	1234	0	0	0	910	42054	0	0	0	0	0	-41145
151'SBT'+00	15100	100	0	0	361	0	0	0	0	0	1331	0	0	0	910	43719	0	0	0	0	0	-42809
152'SBT'+00	15200	100	0	0	324.5	0	0	0	0	0	1269	0	0	0	910	45305	0	0	0	0	0	-44396
153'SBT'+00	15300	100	0	0	302.6	0	0	0	0	0	1161	0	0	0	910	46757	0	0	0	0	0	-45847
154'SBT'+00	15400	100	0	0	321.6	0	0	0	0	0	1156	0	0	0	910	48201	0	0	0	0	0	-47292
155'SBT'+00	15500	100	0	0	365.2	0	0	0	0	0	1272	0	0	0	910	49791	0	0	0	0	0	-48881
156'SBT'+00	15600	100	0	0	326.9	0	0	0	0	0	1282	0	0	0	910	51393	0	0	0	0	0	-50483
157'SBT'+00	15700	100	0	0	367.2	0	0	0	0	0	1285	0	0	0	910	53000	0	0	0	0	0	-52090
158'SBT'+00	15800	100	0	0	343.7	0	0	0	0	0	1317	0	0	0	910	54645	0	0	0	0	0	-53736
159'SBT'+00	15900	100	0	0	358.4	0	0	0	0	0	1300	0	0	0	910	56270	0	0	0	0	0	-55361
160'SBT'+00	16000	100	0	0	335.1	0	0	0	0	0	1284	0	0	0	910	57876	0	0	0	0	0	-56966
161'SBT'+00	16100	100	0	0	309.2	0	0	0	0	0	1193	0	0	0	910	59367	0	0	0	0	0	-58457
162'SBT'+00	16200	100	0.06	0	299.1	0	0	0	0	0	1126	0	0	0	910	60775	0	0	0	0	0	-59865
163'SBT'+00	16300	100	1	0	272.4	0	0	0	2	0	1058	0	0	0	912	62098	0	0	0	0	0	-61186
164'SBT'+00	16400	100	5.5	0	210.3	0	0	0	12	0	894	0	0	0	924	63215	0	0	0	0	0	-62291
165'SBT'+00	16500	100	2.01	0	198.5	0	0	0	14	0	757	0	0	0	938	64161	0	0	0	0	0	-63223
166'SBT'+00	16600	100	7.61	0	145.2	0	0	0	18	0	636	0	0	0	956	64957	0	0	0	0	0	-64001
167'SBT'+00	16700	100	10.06	0	93.99	0	0	0	33	0	443	0	0	0	988	65510	0	0	0	0	0	-64522
168'SBT'+00	16800	100	12.83	0	43.99	0	0	0	42	0	256	0	0	0	1031	65830	0	0	0	0	0	-64799
169'SBT'+00	16900	100	14.35	0	2.73	0	0	0	50	0	87	0	0	0	1081	65938	0	0	0	0	0	-64857
170'SBT'+00	17000	100	12.54	0	0.41	0	0	0	50	0	6	0	0	0	1131	65945	0	0	0	0	0	-64814
171'SBT'+00	17100	100	12.71	0	0	0	0	0	47	0	1	0	0	0	1178	65946	0	0	0	0	0	-64769
172'SBT'+00	17200	100	0	0	0	0	0	0	24	0	0	0	0	0	1201	65946	0	0	0	0	0	-64745
173'SBT'+00	17300	100	0	0	0	0	0	0	0	0	0	0	0	0	1201	65946	0	0	0	0	0	-64745
Sta. 103SBT+56 - Sta 173SBT+00 Sub-Totals									1,250	0	52,800	0	0	0								

CTH M

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Expanded Rock 1.10	Expanded EBS Backfill 1.30 Note 5	Reduced Marsh in Fill 0.60 Note 6	Reduced EBS In Fill 0.80 Note 7	Mass Ordinate Note 8
91'H'+55	9155		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92'H'+00	9200	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92'H'+72	9272	72	49.88	0	1.49	0	0	0	67	0	2	0	0	0	67	2	0	0	0	0	0	64
93'H'+00	9300	28	45.75	0	3.57	0	0	0	50	0	3	0	0	0	116	6	0	0	0	0	0	110
93'H'+22	9322	22	43.76	0	0.59	0	0	0	36	0	2	0	0	0	153	8	0	0	0	0	0	145
94'H'+00	9400	78	40.58	0	0.17	0	0	0	122	0	1	0	0	0	274	9	0	0	0	0	0	265
95'H'+00	9500	100	27.36	0	0.15	0	0	0	126	0	1	0	0	0	400	10	0	0	0	0	0	390
96'H'+00	9600	100	22.24	0	61.19	0	0	0	92	0	114	0	0	0	492	152	0	0	0	0	0	340
97'H'+00	9700	100	21.72	0	138.8	0	0	0	81	0	370	0	0	0	573	615	0	0	0	0	0	-41
98'H'+00	9800	100	19.18	0	144.1	0	0	0	76	0	524	0	0	0	649	1270	0	0	0	0	0	-620
99'H'+00	9900	100	22.03	0	143.6	0	0	0	76	0	533	0	0	0	726	1936	0	0	0	0	0	-1210
99'H'+24.92	9924.92	25	0	0	42.17	0	0	0	10	0	86	0	0	0	736	2043	0	0	0	0	0	-1307
101'H'+77	10177	252	0	0	26.15	0	0	0	0	0	319	0	0	0	736	2442	0	0	0	0	0	-1706
102'H'+00	10200	23	27.08	0	71.97	0	0	0	11	0	41	0	0	0	747	2494	0	0	0	0	0	-1746
103'H'+00	10300	100	22.72	0	118.1	0	0	0	92	0	352	0	0	0	839	2933	0	0	0	0	0	-2094
103'H'+83	10383	83	16.59	0	69.33	0	0	0	60	0	288	0	0	0	900	3294	0	0	0	0	0	-2394
104'H'+00	10400	17	14.45	0	60.72	0	0	0	10	0	41	0	0	0	909	3345	0	0	0	0	0	-2435
104'H'+34	10434	34	13.99	0	42.49	0	0	0	18	0	64	0	0	0	927	3425	0	0	0	0	0	-2498
105'H'+00	10500	67	22.51	0	8.27	0	0	0	45	0	63	0	0	0	972	3503	0	0	0	0	0	-2531
105'H'+04	10504	4	23.59	0	7.46	0	0	0	4	0	1	0	0	0	976	3505	0	0	0	0	0	-2529
105'H'+54	10554	49	33.5	0	26.01	0	0	0	52	0	31	0	0	0	1028	3543	0	0	0	0	0	-2515
106'H'+00	10600	46	45.2	0	0	0	0	0	67	0	22	0	0	0	1095	3571	0	0	0	0	0	-2475
106'H'+50	10650	50	56.83	0	0	0	0	0	94	0	0	0	0	0	1190	3571	0	0	0	0	0	-2381
Sta. 91H+55 - Sta 106H+50 Sub-Totals									1,200	0	2,900	0	0	0								

EDGEWOOD COURT

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Expanded Rock 1.10	Expanded EBS Backfill 1.30 Note 5	Reduced Marsh in Fill 0.60 Note 6	Reduced EBS In Fill 0.80 Note 7	Mass Ordinate Note 8
91'J'+75	9175		30.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92'J'+00	9200	25	34.33	0	0	0	0	0	30	0	0	0	0	0	30	0	0	0	0	0	0	30
93'J'+00	9300	100	23.36	0	0	0	0	0	107	0	0	0	0	0	137	0	0	0	0	0	0	137
94'J'+00	9400	100	25.41	0	1.14	0	0	0	90	0	2	0	0	0	227	3	0	0	0	0	0	225
95'J'+00	9500	100	34.33	0	0.32	0	0	0	111	0	3	0	0	0	338	6	0	0	0	0	0	332
96'J'+00	9600	100	28.62	0	3.17	0	0	0	117	0	6	0	0	0	455	14	0	0	0	0	0	440
97'J'+00	9700	100	13.55	0	40.64	0	0	0	78	0	81	0	0	0	533	116	0	0	0	0	0	417
98'J'+00	9800	100	12.41	0	44.8	0	0	0	48	0	158	0	0	0	581	313	0	0	0	0	0	267
99'J'+00	9900	100	5.81	0	2.63	0	0	0	34	0	88	0	0	0	614	423	0	0	0	0	0	191
99'J'+26.42	9926.42	26	3.97	0	0	0	0	0	5	0	1	0	0	0	619	425	0	0	0	0	0	195
101'J'+70.78	10170.8	244	2.48	0	0.1	0	0	0	29	0	0	0	0	0	648	425	0	0	0	0	0	223
102'J'+00	10200	29	9.9	0	0.36	0	0	0	7	0	0	0	0	0	655	426	0	0	0	0	0	230
103'J'+00	10300	100	2.73	0	62.98	0	0	0	23	0	117	0	0	0	679	572	0	0	0	0	0	106
104'J'+00	10400	100	0	0	59.39	0	0	0	5	0	227	0	0	0	684	855	0	0	0	0	0	-172
105'J'+00	10500	100	0	0	102.7	0	0	0	0	0	300	0	0	0	684	1231	0	0	0	0	0	-547
106'J'+00	10600	100	5.99	0	6.56	0	0	0	11	0	202	0	0	0	695	1484	0	0	0	0	0	-789
107'J'+00	10700	100	14.13	0	1.47	0	0	0	37	0	15	0	0	0	732	1502	0	0	0	0	0	-770
108'J'+00	10800	100	34.09	0	0.5	0	0	0	89	0	4	0	0	0	821	1507	0	0	0	0	0	-686
108'J'+75	10875	75	30.4	0	0	0	0	0	90	0	1	0	0	0	911	1508	0	0	0	0	0	-597
Sta. 91J+75 - Sta 108J+75 Sub-Totals									950	0	1,250	0	0	0								

CROSSROADS CLINIC ROAD

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Expanded Rock 1.10	Expanded EBS Backfill 1.30 Note 5	Reduced Marsh in Fill 0.60 Note 6	Reduced EBS In Fill 0.80 Note 7	Mass Ordinate Note 8
625'C'+00	62500		45.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
626'C'+00	62600	100	33.28	0	18.24	0	0	0	146	0	34	0	0	0	146	42	0	0	0	0	0	104
627'C'+00	62700	100	11.58	0	30.71	0	0	0	83	0	91	0	0	0	229	156	0	0	0	0	0	73
628'C'+00	62800	100	252.88	0	145.5	0	0	0	490	0	326	0	0	0	719	563	0	0	0	0	0	155
629'C'+00	62900	100	54.26	0	109.2	0	0	0	569	0	472	0	0	0	1287	1153	0	0	0	0	0	135
630'C'+00	63000	100	36.54	0	119.6	0	0	0	168	0	424	0	0	0	1456	1682	0	0	0	0	0	-227
631'C'+00	63100	100	44.72	0	90.39	0	0	0	150	0	389	0	0	0	1606	2168	0	0	0	0	0	-562
632'C'+00	63200	100	69.41	0	62.69	0	0	0	211	0	283	0	0	0	1817	2523	0	0	0	0	0	-705
633'C'+00	63300	100	23.79	0	127.3	0	0	0	173	0	352	0	0	0	1990	2963	0	0	0	0	0	-973
634'C'+00	63400	100	23.83	0	183.7	0	0	0	88	0	576	0	0	0	2078	3683	0	0	0	0	0	-1604
635'C'+00	63500	100	77.28	0	114.1	0	0	0	187	0	551	0	0	0	2265	4372	0	0	0	0	0	-2106
636'C'+00	63600	100	67.42	0	75.94	0	0	0	268	0	352	0	0	0	2533	4812	0	0	0	0	0	-2278
637'C'+00	63700	100	72.2	0	81.09	0	0	0	259	0	291	0	0	0	2792	5175	0	0	0	0	0	-2383
638'C'+00	63800	100	95.18	0	53.33	0	0	0	310	0	249	0	0	0	3102	5486	0	0	0	0	0	-2384
639'C'+00	63900	100	86.1	0	15.61	0	0	0	336	0	128	0	0	0	3438	5646	0	0	0	0	0	-2208
640'C'+00	64000	100	61.77	0	6.39	0	0	0	274	0	41	0	0	0	3711	5697	0	0	0	0	0	-1985
641'C'+00	64100	100	62.59	0	0.08	0	0	0	230	0	12	0	0	0	3942	5712	0	0	0	0	0	-1770
642'C'+00	64200	100	62.8	0	2.49	0	0	0	232	0	5	0	0	0	4174	5718	0	0	0	0	0	-1544
643'C'+00	64300	100	53.48	0	2.69	0	0	0	215	0	10	0	0	0	4389	5730	0	0	0	0	0	-1340
643'C'+55	64355	155	58.59	0	0.05	0	0	0	322	0	8	0	0	0	4711	5740	0	0	0	0	0	-1029
Sta. 624C+50 - Sta 643C+55 Sub-Totals									4,750	0	4,600	0	0	0								

C RAMP

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Expanded Rock 1.10	Expanded EBS Backfill 1.30 Note 5	Reduced Marsh in Fill 0.60 Note 6	Reduced EBS In Fill 0.80 Note 7	Mass Ordinate Note 8
618'RCR'+19	61818.99		21.97	0	10.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
619'RCR'+00	61900	81	22.72	0	9.08	0	0	0	67	0	29	0	0	0	67	37	0	0	0	0	0	31
620'RCR'+00	62000	100	23.05	0	8.79	0	0	0	85	0	33	0	0	0	152	78	0	0	0	0	0	74
621'RCR'+00	62100	100	29.39	0	11.28	0	0	0	97	0	37	0	0	0	249	124	0	0	0	0	0	125
622'RCR'+00	62200	100	28.63	0	16.6	0	0	0	107	0	52	0	0	0	356	189	0	0	0	0	0	167
623'RCR'+00	62300	100	25.95	0	21.22	0	0	0	101	0	70	0	0	0	457	275	0	0	0	0	0	181
624'RCR'+00	62400	100	36.21	0	16.25	0	0	0	115	0	69	0	0	0	573	363	0	0	0	0	0	209
625'RCR'+00	62500	100	154.82	0	12.69	0	0	0	354	0	54	0	0	0	926	430	0	0	0	0	0	496
626'RCR'+00	62600	100	270.45	0	9.08	0	0	0	788	0	40	0	0	0	1714	481	0	0	0	0	0	1233
627'RCR'+00	62700	100	321.81	0	11.02	0	0	0	1097	0	37	0	0	0	2811	527	0	0	0	0	0	2284
628'RCR'+00	62800	100	352.28	0	17.02	0	0	0	1248	0	52	0	0	0	4059	592	0	0	0	0	0	3467
629'RCR'+00	62900	100	388.43	0	13.93	0	0	0	1372	0	57	0	0	0	5431	664	0	0	0	0	0	4767
630'RCR'+00	63000	100	391.21	0	16.21	0	0	0	1444	0	56	0	0	0	6874	733	0	0	0	0	0	6141
631'RCR'+00	63100	100	438.58	0	13.8	0	0	0	1537	0	56	0	0	0	8411	803	0	0	0	0	0	7608
632'RCR'+00	63200	100	539.18	0	11.79	0	0	0	1811	0	47	0	0	0	10222	862	0	0	0	0	0	9360
633'RCR'+00	63300	100	669.79	0	6.02	0	0	0	2239	0	33	0	0	0	12461	903	0	0	0	0	0	11557
634'RCR'+00	63400	100	656.37	0	6.62	0	0	0	2456	0	23	0	0	0	14916	933	0	0	0	0	0	13984
635'RCR'+00	63500	100	531.34	0	6.57	0	0	0	2199	0	24	0	0	0	17116	963	0	0	0	0	0	16153
636'RCR'+00	63600	100	448.92	0	7.08	0	0	0	1815	0	25	0	0	0	18931	995	0	0	0	0	0	17936
637'RCR'+00	63700	100	477.51	0	7.15	0	0	0	1716	0	26	0	0	0	20647	1028	0	0	0	0	0	19619
638'RCR'+00	63800	100	221.25	0	8.3	0	0	0	1294	0	29	0	0	0	21941	1063	0	0	0	0	0	20877
639'RCR'+00	63900	100	109.33	0	7.14	0	0	0	612	0	29	0	0	0	22553	1099	0	0	0	0	0	21454
640'RCR'+00	64000	100	122.19	0	1.03	0	0	0	429	0	15	0	0	0	22982	1118	0	0	0	0	0	21864
641'RCR'+00	64100	100	376.83	0	0	0	0	0	924	0	2	0	0	0	23906	1120	0	0	0	0	0	22785
642'RCR'+00	64200	100	484.05	0	0	0	0	0	1594	0	0	0	0	0	25500	1120	0	0	0	0	0	24380
643'RCR'+00	64300	100	554.85	0	0	0	0	0	1924	0	0	0	0	0	27424	1120	0	0	0	0	0	26303
644'RCR'+00	64400	100	500.29	0	0	0	0	0	1954	0	0	0	0	0	29378	1120	0	0	0	0	0	28257
645'RCR'+00	64500	100	586.87	0	0	0	0	0	2013	0	0	0	0	0	31391	1120	0	0	0	0	0	30271
646'RCR'+00	64600	100	673.49	0	0	0	0	0	2334	0	0	0	0	0	33725	1120	0	0	0	0	0	32605
647'RCR'+00	64700	100	593.34	0	0	0	0	0	2346	0	0	0	0	0	36071	1120	0	0	0	0	0	34951
648'RCR'+00	64800	100	495.3	0	0	0	0	0	2016	0	0	0	0	0	38087	1120	0	0	0	0	0	36967
649'RCR'+00	64900	100	279.63	0	0	0	0	0	1435	0	0	0	0	0	39522	1120	0	0	0	0	0	38402
650'RCR'+00	65000	100	67.67	0	11.6	0	0	0	643	0	21	0	0	0	40165	1147	0	0	0	0	0	39018
Sta. 618'RCR'+19 to 650'RCR'+00 Sub-Totals									40,200	0	950	0	0	0								

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PLOT TIME: 11:36:45 AM
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WISDOT/CADDS SHEET 49

D RAMP

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Expanded Rock 1.10	Expanded EBS Backfill 1.30 Note 5	Reduced Marsh in Fill 0.60 Note 6	Reduced EBS In Fill 0.80 Note 7	Mass Ordinate Note 8
649'RDR'+99	64999		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
650'RDR'+00	65000	1	126.14	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	2
651'RDR'+00	65100	100	0	0	277.52	0	0	0	234	0	514	0	0	0	236	642	0	0	0	0	0	-406
652'RDR'+00	65200	100	0	0	454.5	0	0	0	0	0	1356	0	0	0	236	2337	0	0	0	0	0	-2101
653'RDR'+00	65300	100	8.44	0	551.43	0	0	0	16	0	1863	0	0	0	252	4665	0	0	0	0	0	-4414
654'RDR'+00	65400	100	0	0	844.79	0	0	0	16	0	2586	0	0	0	267	7897	0	0	0	0	0	-7630
655'RDR'+00	65500	100	0	0	1290.3	0	0	0	0	0	3954	0	0	0	267	12840	0	0	0	0	0	-12572
656'RDR'+00	65600	100	0	0	1055	0	0	0	0	0	4343	0	0	0	267	18269	0	0	0	0	0	-18001
657'RDR'+00	65700	100	0	0	1028.8	0	0	0	0	0	3859	0	0	0	267	23092	0	0	0	0	0	-22825
658'RDR'+00	65800	100	4.41	0	1388.1	0	0	0	8	0	4476	0	0	0	275	28687	0	0	0	0	0	-28411
659'RDR'+00	65900	100	0	0	1552.8	0	0	0	8	0	5446	0	0	0	284	35495	0	0	0	0	0	-35211
660'RDR'+00	66000	100	45.07	0	1748.6	0	0	0	83	0	6114	0	0	0	367	43137	0	0	0	0	0	-42770
661'RDR'+00	66100	100	0	0	2092.9	0	0	0	83	0	7114	0	0	0	450	52029	0	0	0	0	0	-51579
662'RDR'+00	66200	100	0	0	2249.2	0	0	0	0	0	8041	0	0	0	450	62080	0	0	0	0	0	-61630
663'RDR'+00	66300	100	0.01	0	2006.7	0	0	0	0	0	7881	0	0	0	450	71932	0	0	0	0	0	-71482
664'RDR'+00	66400	100	0	0	1610.6	0	0	0	0	0	6699	0	0	0	450	80306	0	0	0	0	0	-79855
665'RDR'+00	66500	100	0	0	1247.1	0	0	0	0	0	5292	0	0	0	450	86921	0	0	0	0	0	-86470
666'RDR'+00	66600	100	0	0	967.48	0	0	0	0	0	4101	0	0	0	450	92047	0	0	0	0	0	-91597
667'RDR'+00	66700	100	22.1	0	793.95	0	0	0	41	0	3262	0	0	0	491	96124	0	0	0	0	0	-95633
668'RDR'+00	66800	100	20.73	0	606.01	0	0	0	79	0	2593	0	0	0	571	99365	0	0	0	0	0	-98794
669'RDR'+00	66900	100	20.45	0	458.72	0	0	0	76	0	1972	0	0	0	647	101830	0	0	0	0	0	-101183
670'RDR'+00	67000	100	20.65	0	294.91	0	0	0	76	0	1396	0	0	0	723	103574	0	0	0	0	0	-102851
671'RDR'+00	67100	100	20.12	0	201.43	0	0	0	76	0	919	0	0	0	799	104723	0	0	0	0	0	-103925
671'RDR'+80	67179.57	80	0	0	0	0	0	0	30	0	297	0	0	0	828	105094	0	0	0	0	0	-104266
			Sta. 649'RDR'+99 - Sta 671'RDR'+80 Sub-Totals						850	0	84,100	0	0	0								

TEMPORARY C RAMP

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Expanded Rock 1.10	Expanded EBS Backfill 1.30 Note 5	Reduced Marsh in Fill 0.60 Note 6	Reduced EBS In Fill 0.80 Note 7	Mass Ordinate Note 8
645'CT'+18	64517.67		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
646'CT'+00	64600	82	18.78	0	0	0	0	0	29	0	0	0	0	0	29	0	0	0	0	0	0	29
647'CT'+00	64700	100	20.57	0	11.46	0	0	0	73	0	21	0	0	0	102	27	0	0	0	0	0	75
648'CT'+00	64800	100	67.25	0	48.49	0	0	0	163	0	111	0	0	0	264	165	0	0	0	0	0	99
649'CT'+00	64900	100	181.8	0	12.18	0	0	0	461	0	112	0	0	0	725	306	0	0	0	0	0	420
650'CT'+00	65000	100	392.98	0	0	0	0	0	1064	0	23	0	0	0	1790	334	0	0	0	0	0	1456
651'CT'+00	65100	100	327.53	0	0	0	0	0	1334	0	0	0	0	0	3124	334	0	0	0	0	0	2790
651'CT'+51	65151.41	51	0	0	0	0	0	0	312	0	0	0	0	0	3436	334	0	0	0	0	0	3102
			Sta. 645'CT'+18 - Sta 651'CT'+51 Sub-Totals						3,450	0	300	0	0	0								

TEMPORARY D RAMP

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Expanded Rock 1.10	Expanded EBS Backfill 1.30 Note 5	Reduced Marsh in Fill 0.60 Note 6	Reduced EBS In Fill 0.80 Note 7	Mass Ordinate Note 8
652'DT'+18	65217.87		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
652'DT'+50	65250	32	5.36	0	43.27	0	0	0	3	0	26	0	0	0	3	32	0	0	0	0	0	-29
653'DT'+00	65300	50	47.26	0	37.5	0	0	0	49	0	75	0	0	0	52	126	0	0	0	0	0	-74
653'DT'+50	65350	50	11.81	0	30.76	0	0	0	55	0	63	0	0	0	107	205	0	0	0	0	0	-98
653'DT'+60	65360.3	10	0	0	0	0	0	0	2	0	6	0	0	0	109	212	0	0	0	0	0	-103
			Sta. 652'DT'+18 - Sta 653'DT'+30 Sub-Totals						150	0	200	0	0	0								

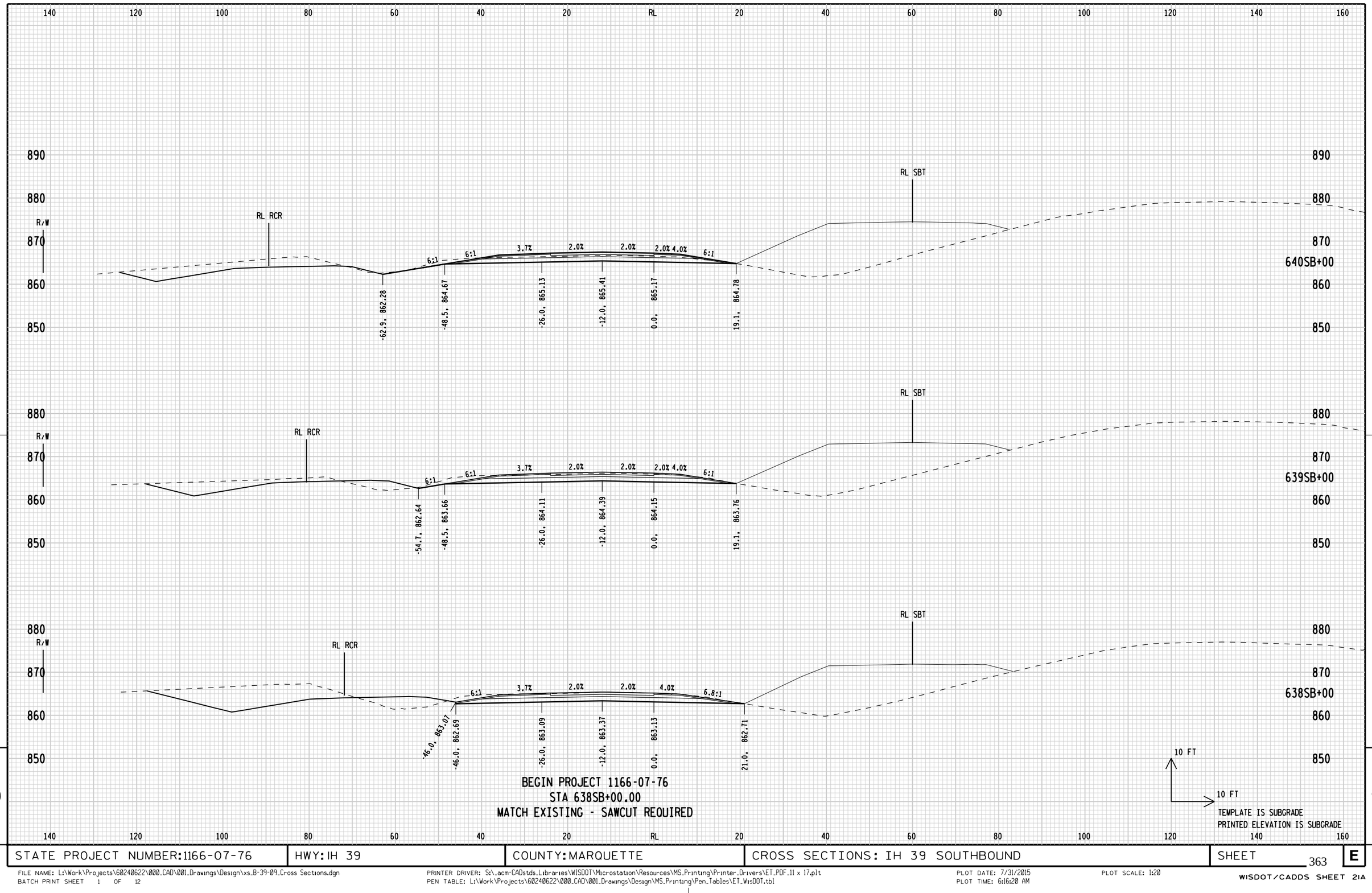
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PLOT TIME: 11:36:48 AM
PLOT SCALE: 1:2
WISDOT/CADDS SHEET 49

IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Expanded Rock 1.10	Expanded EBS Backfill 1.30 Note 5	Reduced Marsh in Fill 0.60 Note 6	Reduced EBS In Fill 0.80 Note 7
625'SB'+00	62500		24.38	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
626'SB'+00	62600	100	31.46	0	0.02	0	0	0	103	0	0	0	0	0	103	0	0	0	0	0	0
627'SB'+00	62700	100	45.25	0	0.01	0	0	0	142	0	0	0	0	0	245	0	0	0	0	0	0
628'SB'+00	62800	100	64.18	0	0	0	0	0	203	0	0	0	0	0	448	0	0	0	0	0	0
629'SB'+00	62900	100	74.05	0	0	0	0	0	256	0	0	0	0	0	704	0	0	0	0	0	0
630'SB'+00	63000	100	99.76	0	0	0	0	0	322	0	0	0	0	0	1026	0	0	0	0	0	0
631'SB'+00	63100	100	125.97	0	0	0	0	0	418	0	0	0	0	0	1444	0	0	0	0	0	0
632'SB'+00	63200	100	148.37	0	0	0	0	0	508	0	0	0	0	0	1952	0	0	0	0	0	0
633'SB'+00	63300	100	149.36	0	0	0	0	0	551	0	0	0	0	0	2503	0	0	0	0	0	0
634'SB'+00	63400	100	186.82	0	0	0	0	0	623	0	0	0	0	0	3126	0	0	0	0	0	0
635'SB'+00	63500	100	220.18	0	0	0	0	0	754	0	0	0	0	0	3880	0	0	0	0	0	0
636'SB'+00	63600	100	262.96	0	0	0	0	0	895	0	0	0	0	0	4774	0	0	0	0	0	0
637'SB'+00	63700	100	296.8	0	0	0	0	0	1037	0	0	0	0	0	5811	0	0	0	0	0	0
638'SB'+00	63800	100	311.45	0	0	0	0	0	1126	0	0	0	0	0	6937	0	0	0	0	0	0
639'SB'+00	63900	100	327.95	0	0	0	0	0	1184	0	0	0	0	0	8121	0	0	0	0	0	0
640'SB'+00	64000	100	326.68	0	0	0	0	0	1212	0	0	0	0	0	9334	0	0	0	0	0	0
641'SB'+00	64100	100	328.5	0	0	0	0	0	1213	0	0	0	0	0	10547	0	0	0	0	0	0
642'SB'+00	64200	100	340.97	0	0	0	0	0	1240	0	0	0	0	0	11787	0	0	0	0	0	0
643'SB'+00	64300	100	344.03	0	0.03	0	0	0	1269	0	0	0	0	0	13055	0	0	0	0	0	0
644'SB'+00	64400	100	326.13	0	0	0	0	0	1241	0	0	0	0	0	14296	0	0	0	0	0	0
645'SB'+00	64500	100	306.99	0	0	0	0	0	1172	0	0	0	0	0	15469	0	0	0	0	0	0
646'SB'+00	64600	100	293.27	0	0	0	0	0	1112	0	0	0	0	0	16580	0	0	0	0	0	0
647'SB'+00	64700	100	276.44	0	0	0	0	0	1055	0	0	0	0	0	17635	0	0	0	0	0	0
648'SB'+00	64800	100	260.74	0	0	0	0	0	995	0	0	0	0	0	18630	0	0	0	0	0	0
649'SB'+00	64900	100	241.64	0	0.06	0	0	0	930	0	0	0	0	0	19560	0	0	0	0	0	0
				Sta. 625'SB'+00 - Sta 649'SB'+00 Sub-Totals					19,600	0	50	0	0	0							

IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Expanded Rock 1.10	Expanded EBS Backfill 1.30 Note 5	Reduced Marsh in Fill 0.60 Note 6	Reduced EBS In Fill 0.80 Note 7	Mass Ordinate Note 8
653'SB'+00	65300		312.11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
654'SB'+00	65400	100	230.62	0	0	0	0	0	1005	0	0	0	0	0	1005	0	0	0	0	0	0	1005
655'SB'+00	65500	100	222.98	0	0.02	0	0	0	840	0	0	0	0	0	1845	0	0	0	0	0	0	1845
656'SB'+00	65600	100	267.99	0	0	0	0	0	909	0	0	0	0	0	2754	0	0	0	0	0	0	2754
657'SB'+00	65700	100	192	0	1.47	0	0	0	852	0	3	0	0	0	3606	3	0	0	0	0	0	3603
658'SB'+00	65800	100	241.64	0	0	0	0	0	803	0	3	0	0	0	4409	7	0	0	0	0	0	4402
659'SB'+00	65900	100	231.48	0	0	0	0	0	876	0	0	0	0	0	5285	7	0	0	0	0	0	5278
660'SB'+00	66000	100	233.46	0	0	0	0	0	861	0	0	0	0	0	6146	7	0	0	0	0	0	6139
661'SB'+00	66100	100	238.57	0	0	0	0	0	874	0	0	0	0	0	7020	7	0	0	0	0	0	7014
662'SB'+00	66200	100	241.33	0	0	0	0	0	889	0	0	0	0	0	7909	7	0	0	0	0	0	7902
663'SB'+00	66300	100	257.23	0	0	0	0	0	923	0	0	0	0	0	8832	7	0	0	0	0	0	8825
664'SB'+00	66400	100	268.44	0	0	0	0	0	973	0	0	0	0	0	9806	7	0	0	0	0	0	9799
665'SB'+00	66500	100	269.67	0	0	0	0	0	997	0	0	0	0	0	10802	7	0	0	0	0	0	10795
666'SB'+00	66600	100	274.79	0	0	0	0	0	1008	0	0	0	0	0	11811	7	0	0	0	0	0	11804
667'SB'+00	66700	100	279.74	0	0	0	0	0	1027	0	0	0	0	0	12838	7	0	0	0	0	0	12831
668'SB'+00	66800	100	270.88	0	0.21	0	0	0	1020	0	0	0	0	0	13857	7	0	0	0	0	0	13850
669'SB'+00	66900	100	296.04	0	0	0	0	0	1050	0	0	0	0	0	14907	8	0	0	0	0	0	14899
670'SB'+00	67000	100	289.53	0	0	0	0	0	1084	0	0	0	0	0	15991	8	0	0	0	0	0	15984
671'SB'+00	67100	100	240.66	0	0	0	0	0	982	0	0	0	0	0	16973	8	0	0	0	0	0	16965
672'SB'+00	67200	100	168.28	0	0.02	0	0	0	757	0	0	0	0	0	17731	8	0	0	0	0	0	17723
673'SB'+00	67300	100	128.28	0	0	0	0	0	549	0	0	0	0	0	18280	8	0	0	0	0	0	18272
674'SB'+00	67400	100	96.15	0	0	0	0	0	416	0	0	0	0	0	18695	8	0	0	0	0	0	18687
675'SB'+00	67500	100	55.44	0	0	0	0	0	281	0	0	0	0	0	18976	8	0	0	0	0	0	18968
676'SB'+00	67600	100	0	0	0	0	0	0	103	0	0	0	0	0	19079	8	0	0	0	0	0	19071
				Sta. 653SB+00 - Sta 676SB+00 Sub-Totals					19,100	0	50	0	0	0								

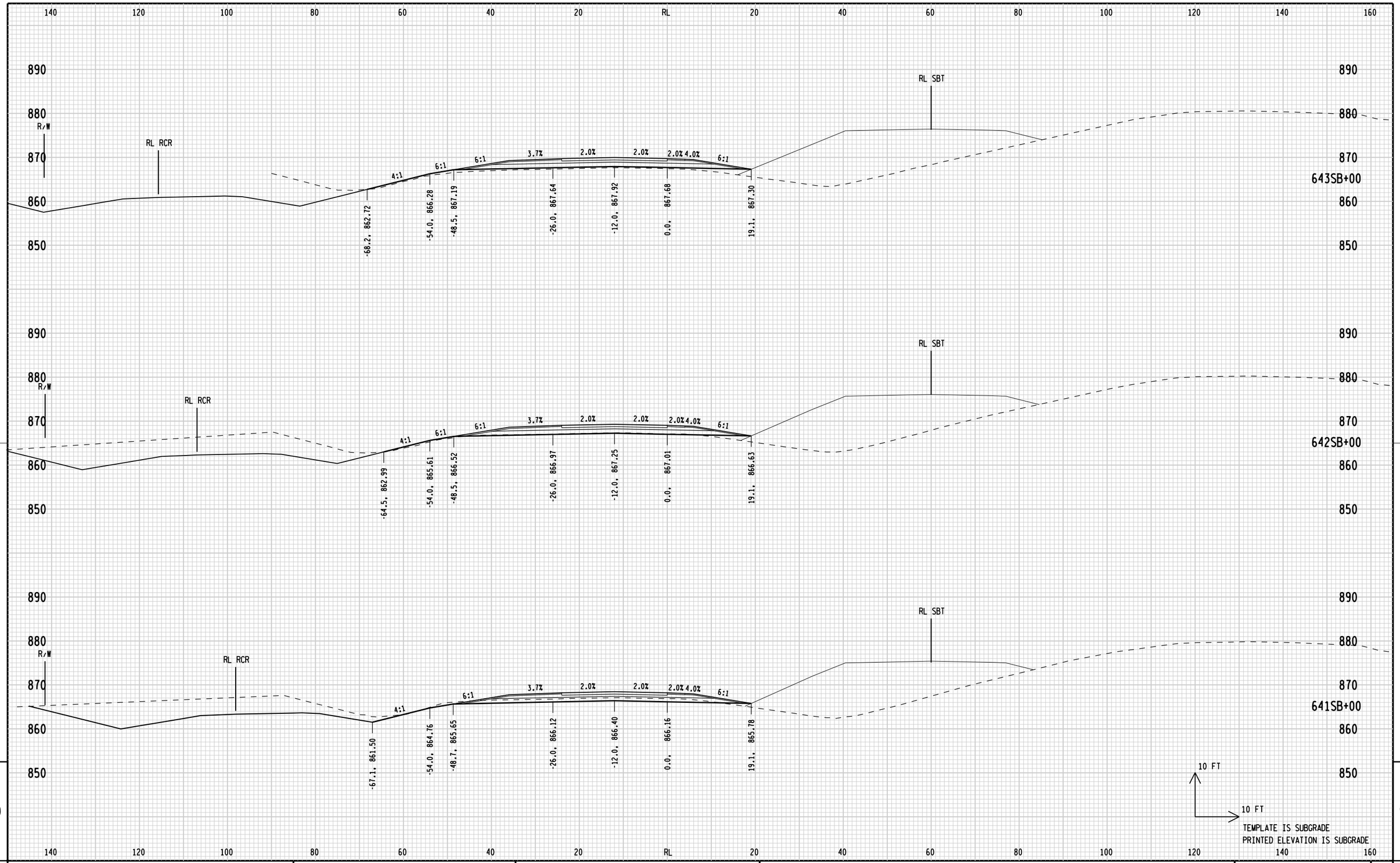


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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 SOUTHBOUND	SHEET 363	E

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BATCH PRINT SHEET 1 OF 12
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PLOT DATE: 7/31/2015
PLOT TIME: 6:16:20 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

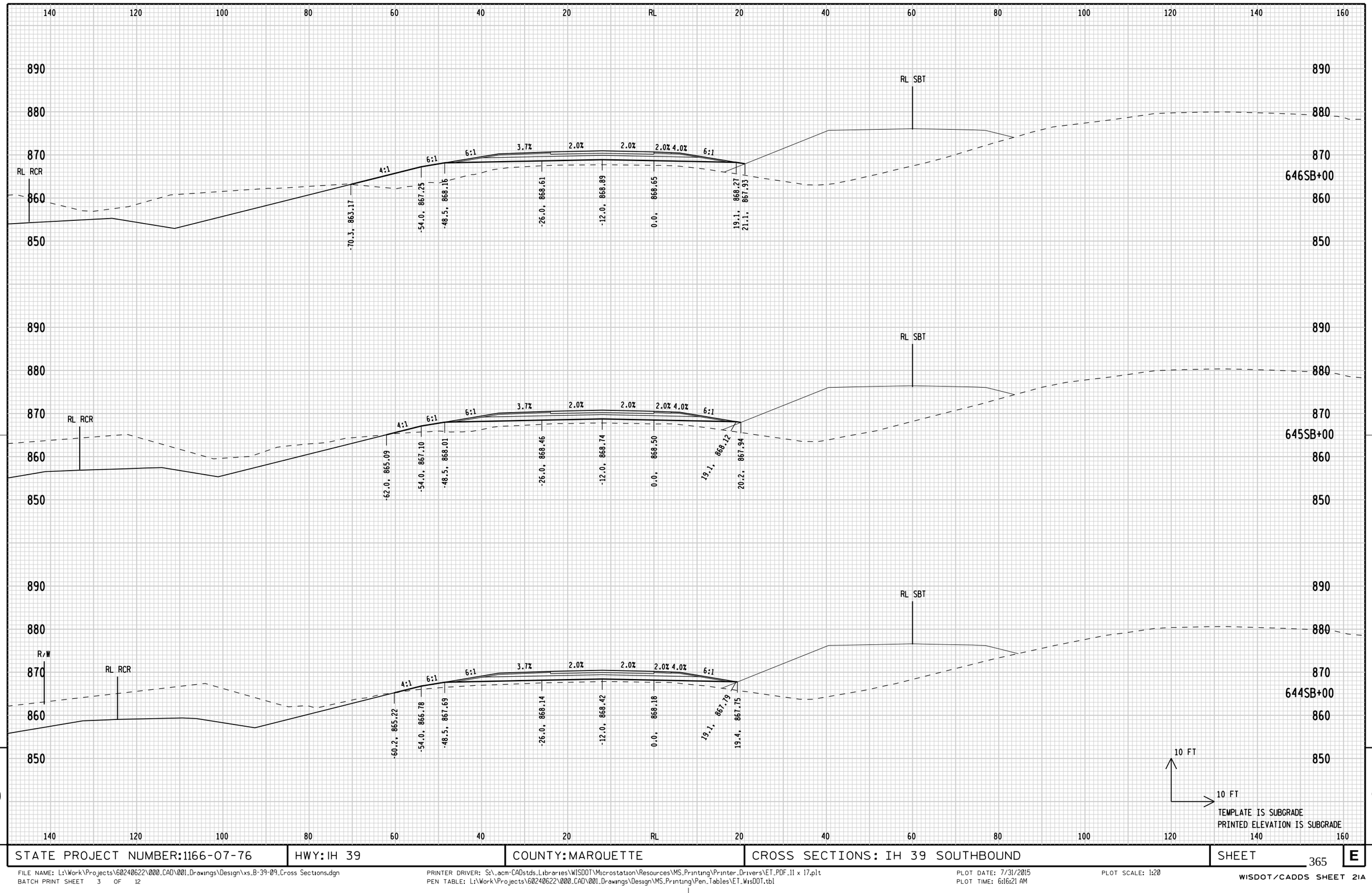


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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 SOUTHBOUND	SHEET	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_B-39-09_Cross Sections.dgn
BATCH PRINT SHEET 2 OF 12
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 7/31/2015
PLOT TIME: 6:16:20 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

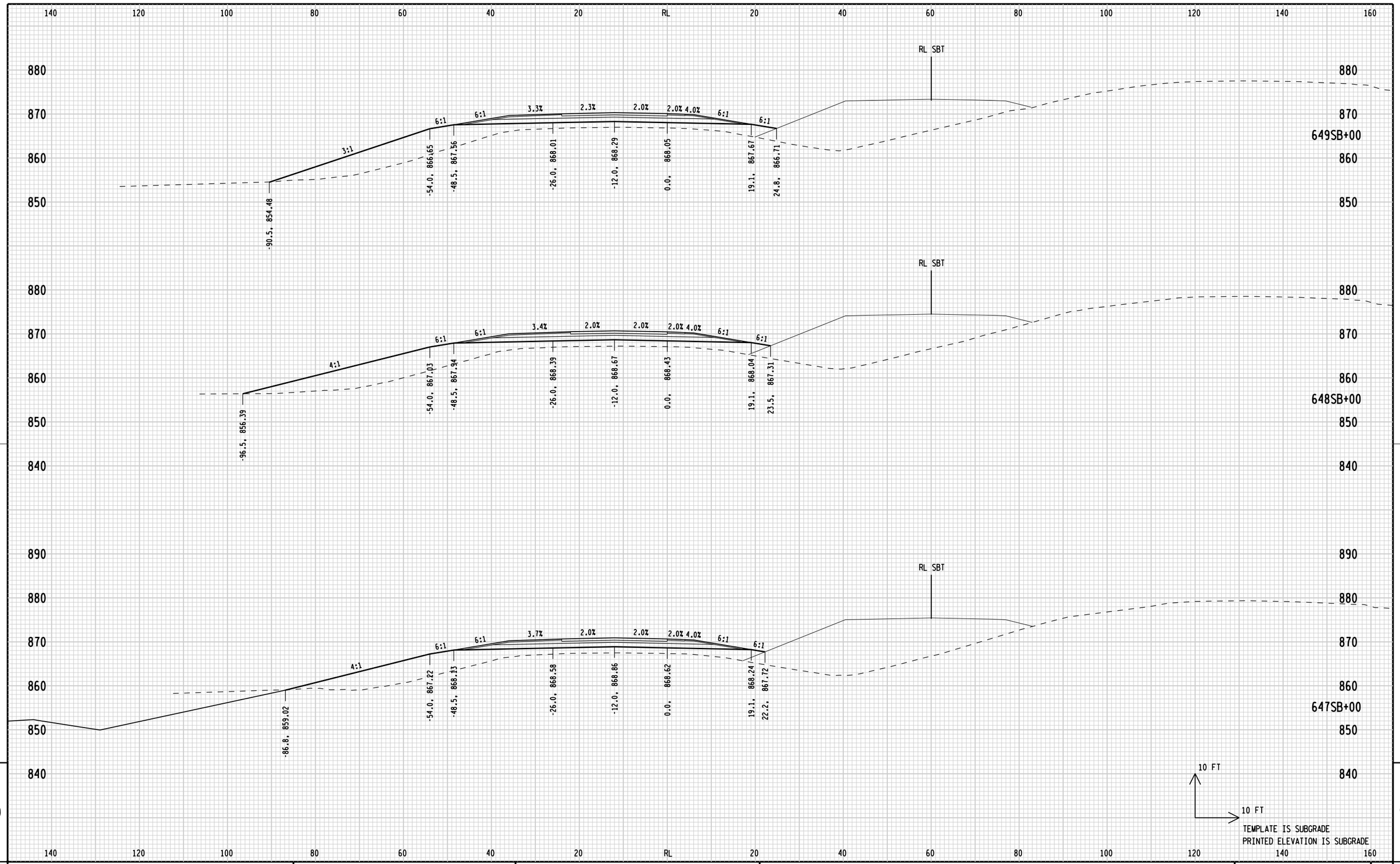


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9

STATE PROJECT NUMBER:1166-07-76	HWY:IH 39	COUNTY:MARQUETTE	CROSS SECTIONS: IH 39 SOUTHBOUND	SHEET 365 E

FILE NAME: L:\Work\Projects\60240622\000.CAD\001_Drawings\Design\xs_B-39-09_Cross Sections.dgn
BATCH PRINT SHEET 3 OF 12
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PLOT DATE: 7/31/2015
PLOT TIME: 6:16:21 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

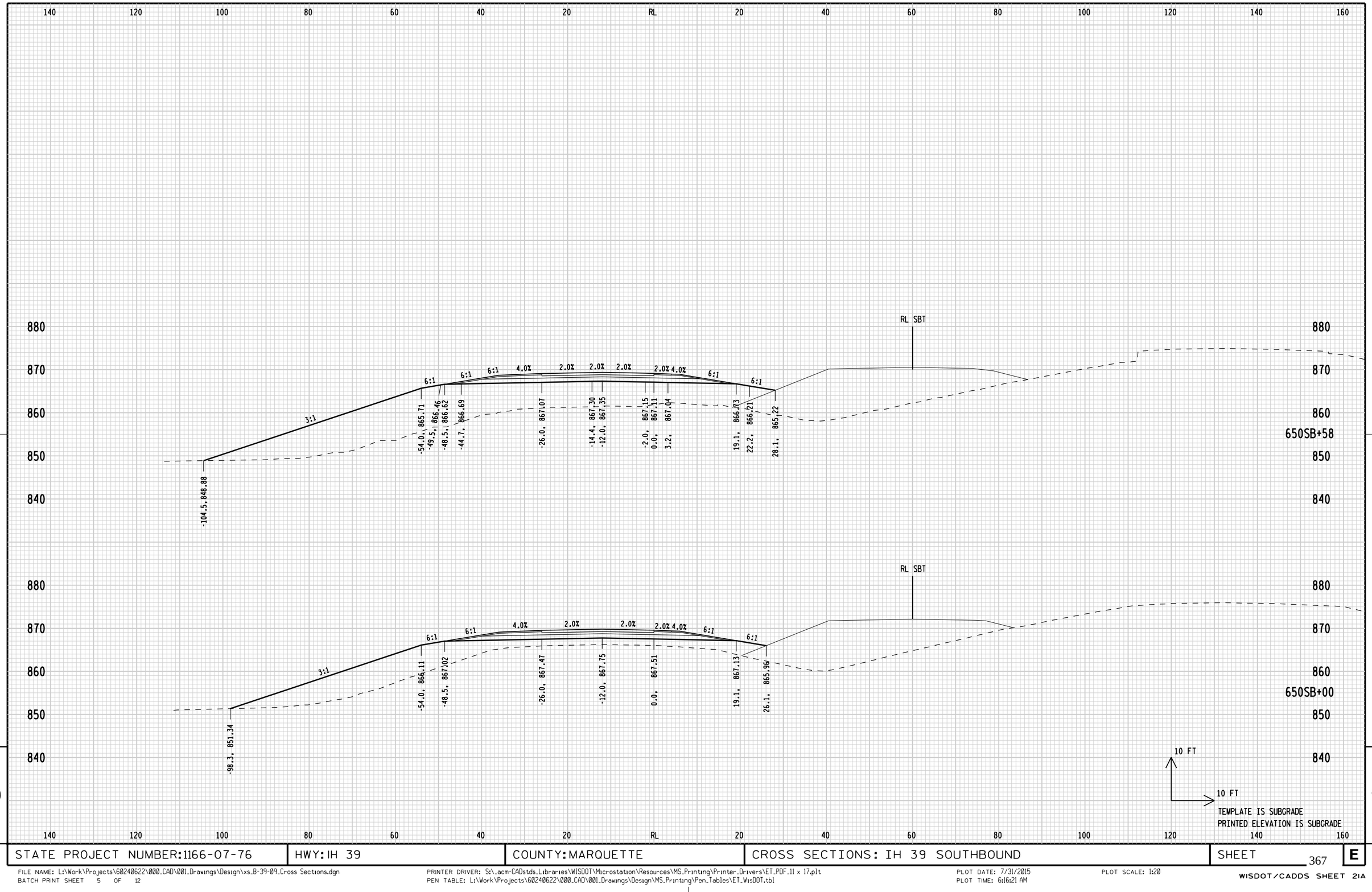


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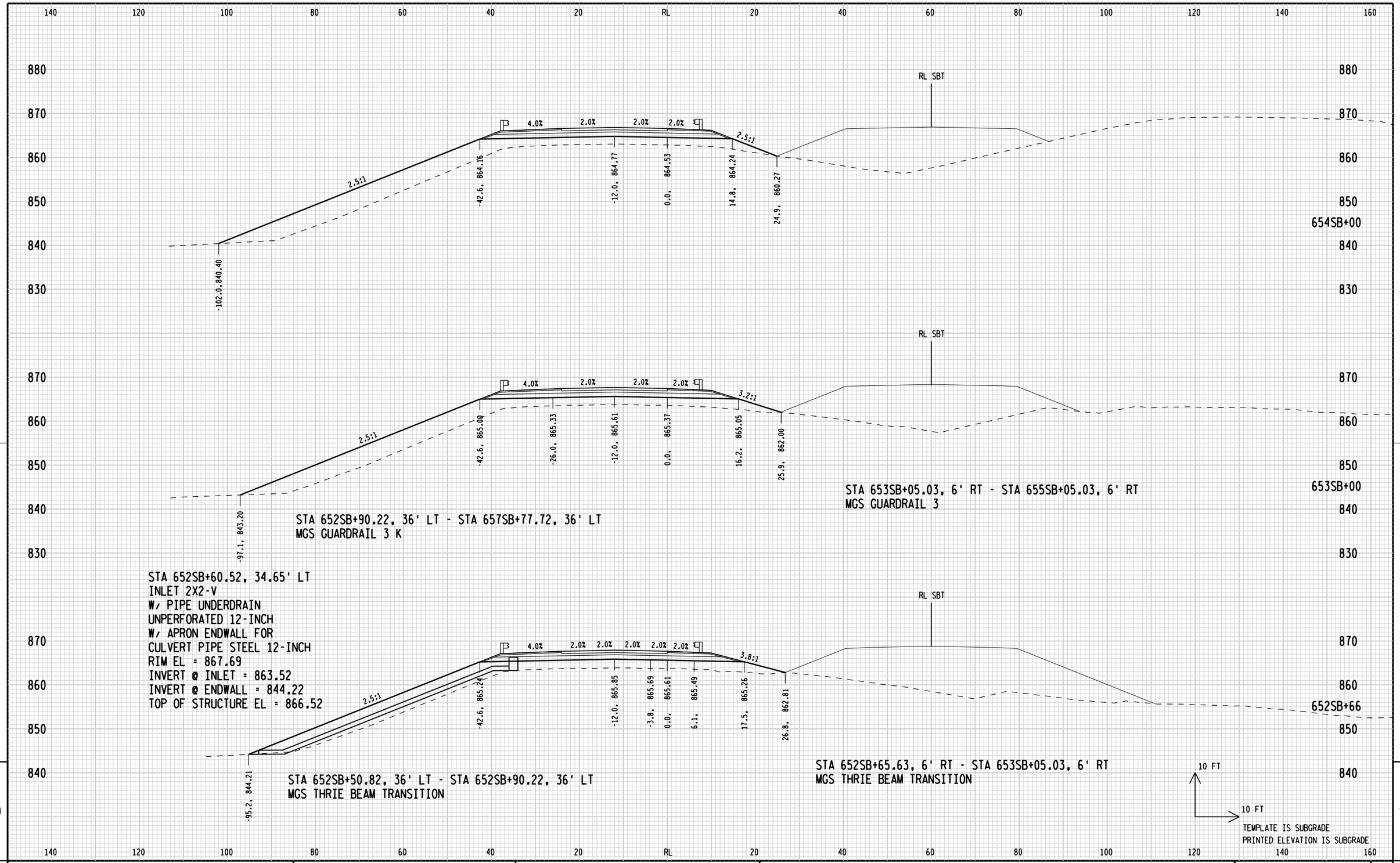
STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 SOUTHBOUND	SHEET 366	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_B-39-09_Cross Sections.dgn
BATCH PRINT SHEET 4 OF 12
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PLOT DATE: 7/31/2015
PLOT TIME: 6:16:21 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 SOUTHBOUND	SHEET	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_B-39-09_Cross Sections.dgn
BATCH PRINT SHEET 5 OF 12
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 7/31/2015
PLOT TIME: 6:16:21 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9

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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 SOUTHBOUND	SHEET	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_B-39-09_Cross Sections.dgn
BATCH PRINT SHEET 6 OF 12
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 7/31/2015
PLOT TIME: 6:16:22 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

870 860 850 840 830

4.0% 2.0% 2.0% 2.0% 4:1 2.5:1

-94.1, 842.08
-42.6, 862.66
-12.0, 863.28
0.0, 863.04
19.2, 862.65
30.0, 859.96

655SB+33.16
POST 5

RL SBT

4.0% 2.0% 2.0% 2.0% 2.8:1 2.5:1

-99.0, 840.43
-42.6, 862.98
-12.0, 863.59
0.0, 863.35
15.3, 863.05
26.6, 859.04

STA 655SB+05.03, 6' RT - STA 655SB+58.16, 8' RT
MGS GUARDRAIL TERMINAL EAT

655SB+08.16
POST 9

RL SBT

4.0% 2.0% 2.0% 2.0% 2.8:1 2.5:1

-97.9, 840.98
-42.6, 863.08
-26.0, 863.41
-12.0, 863.69
0.0, 863.45
15.3, 863.15
26.4, 859.12

655SB+00

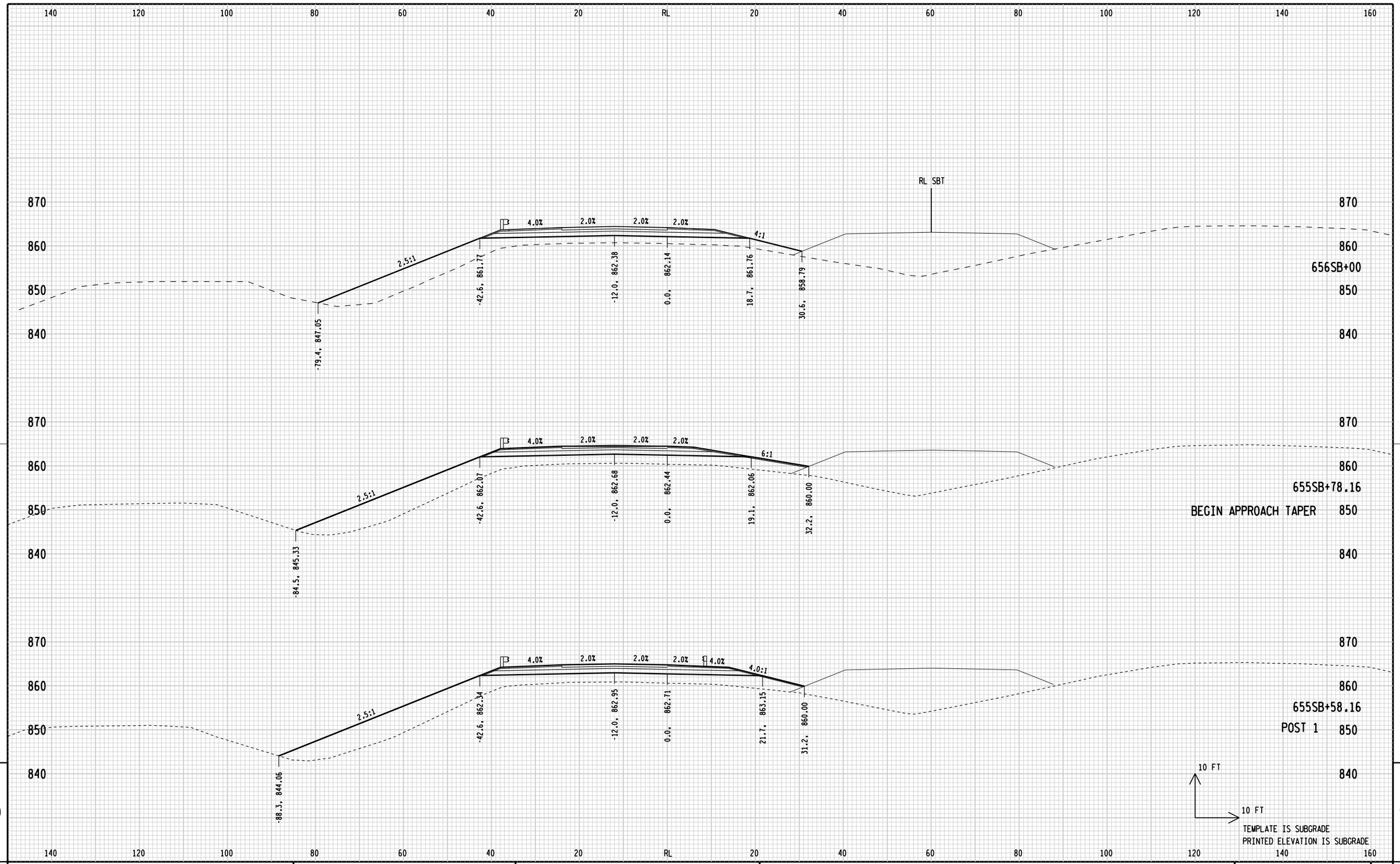
10 FT
10 FT

TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 SOUTHBOUND	SHEET	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_B-39-09_Cross Sections.dgn
BATCH PRINT SHEET 7 OF 12
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 7/31/2015
PLOT TIME: 6:16:22 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

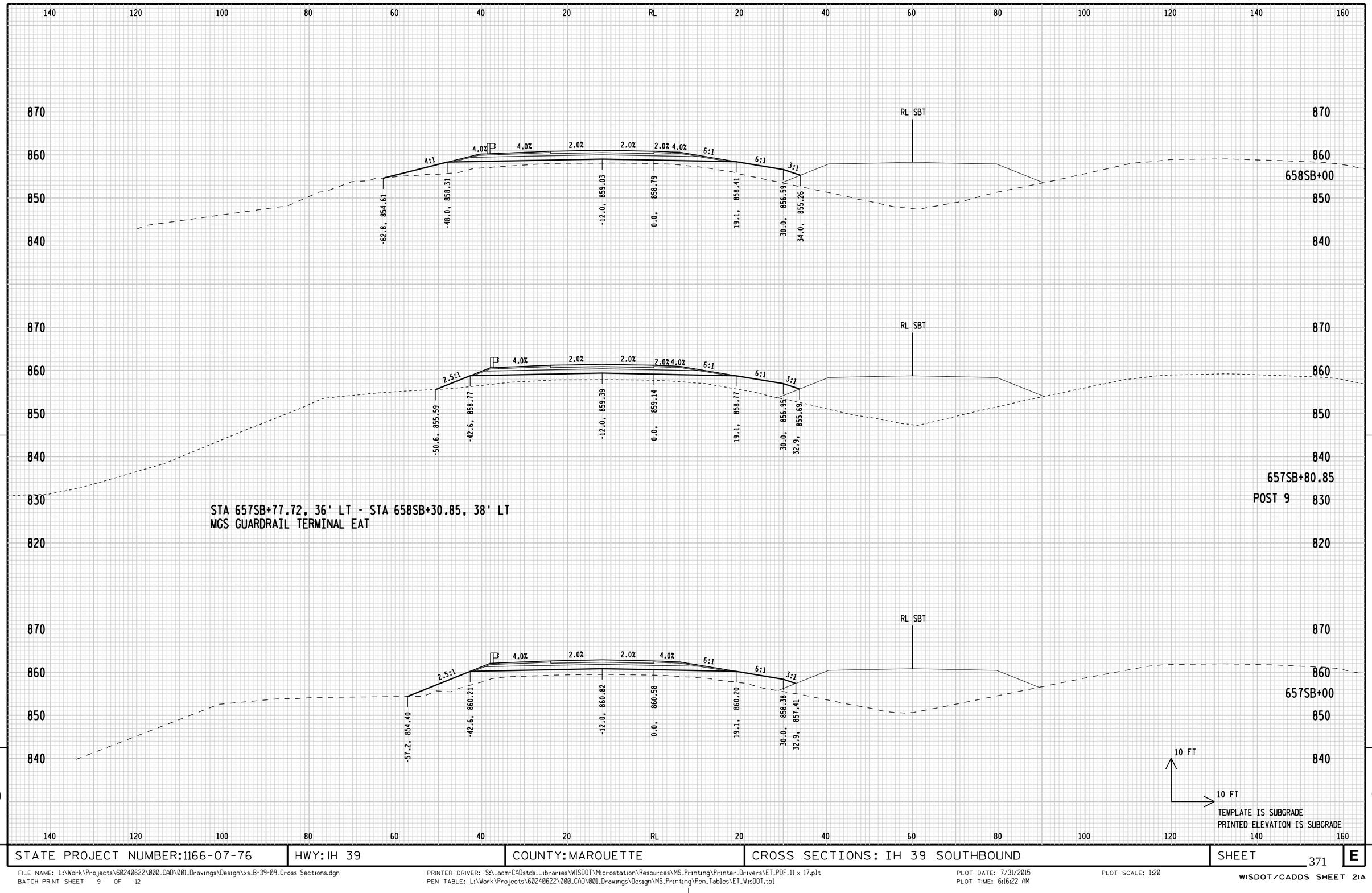


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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 SOUTHBOUND	SHEET 370	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_B-39-09_Cross Sections.dgn
BATCH PRINT SHEET 8 OF 12
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 7/31/2015
PLOT TIME: 6:16:22 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

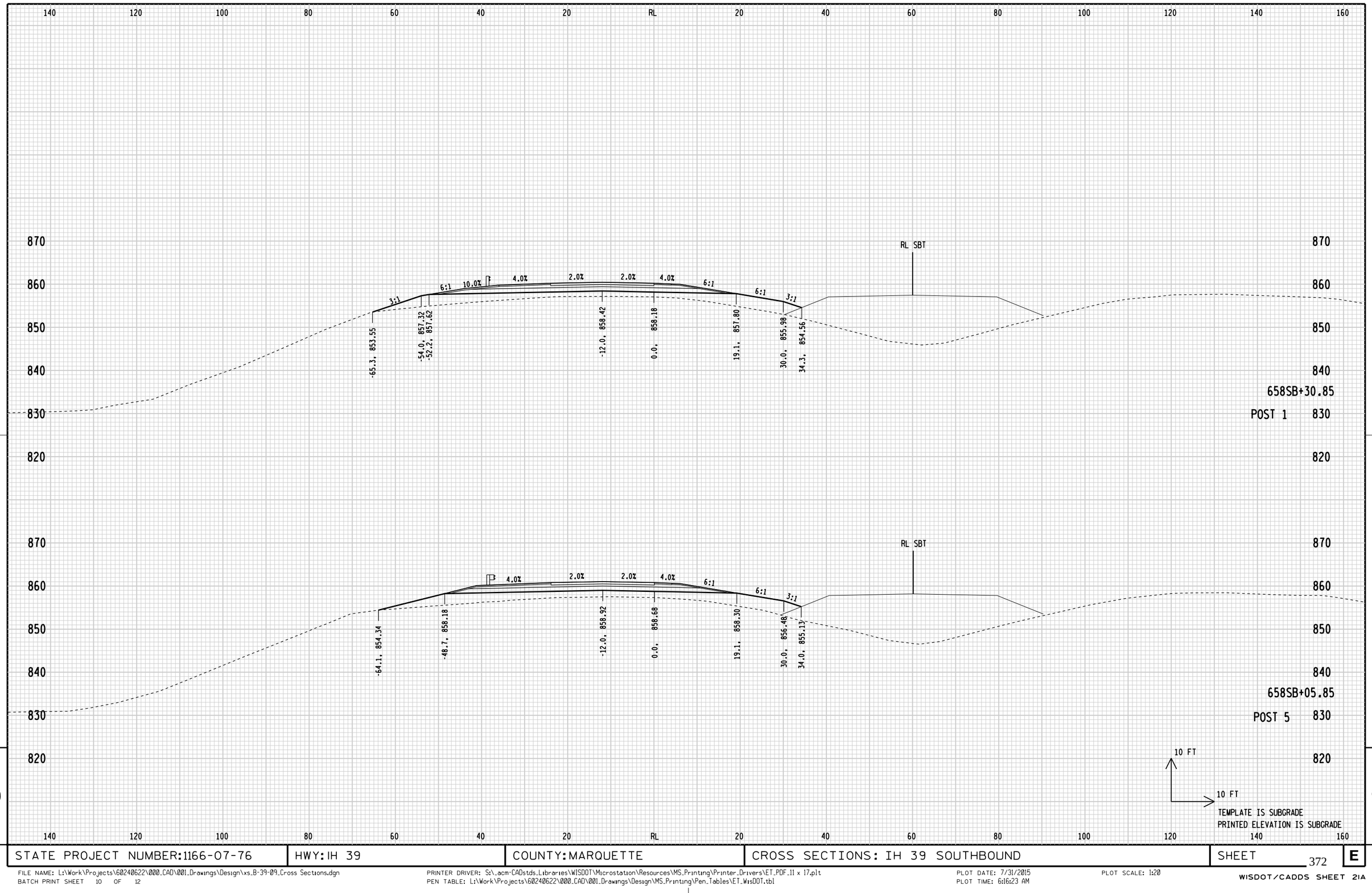


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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 SOUTHBOUND	SHEET 371	E

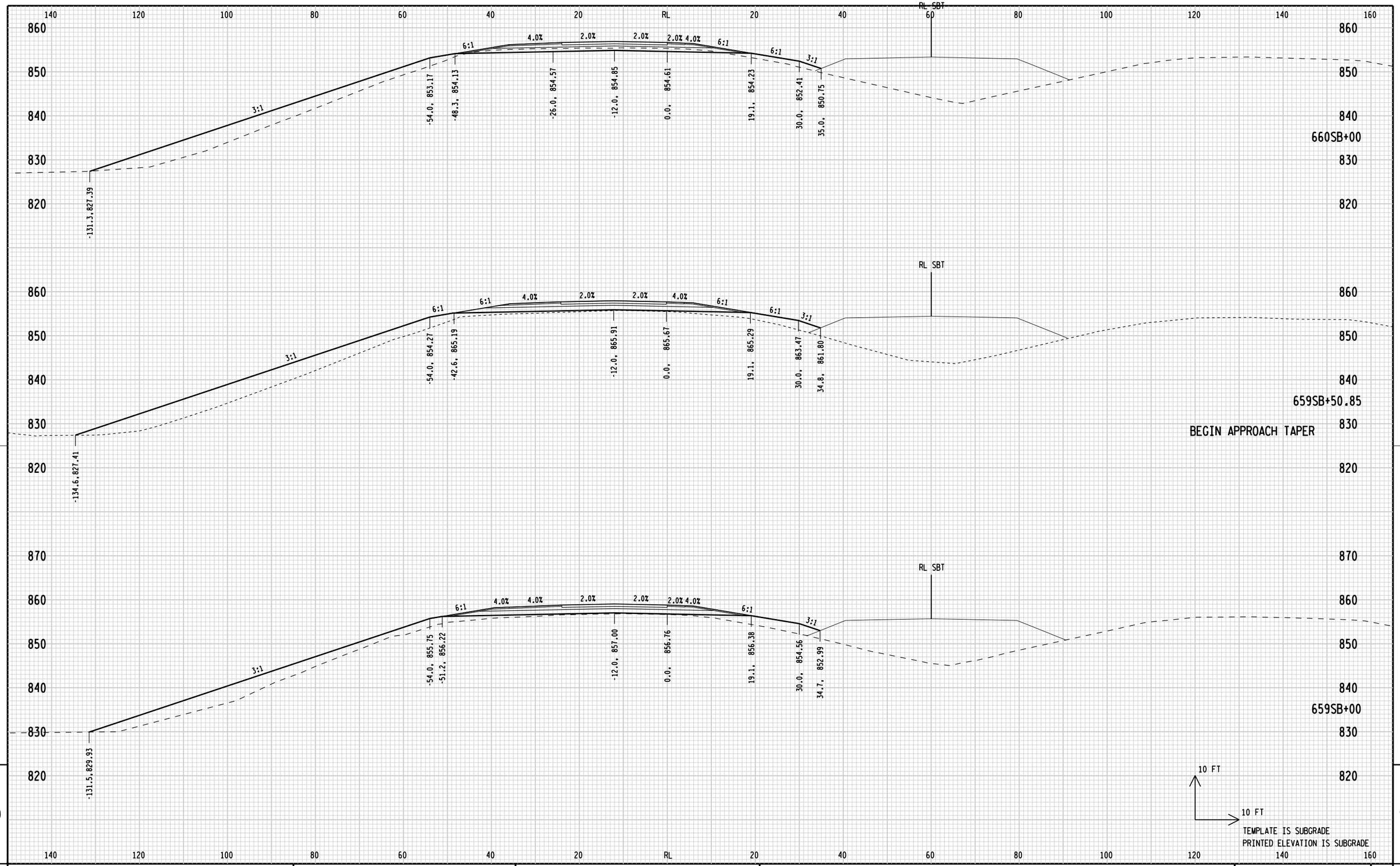
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BATCH PRINT SHEET 9 OF 12
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PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 7/31/2015
PLOT TIME: 6:16:22 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 SOUTHBOUND	SHEET 372 E

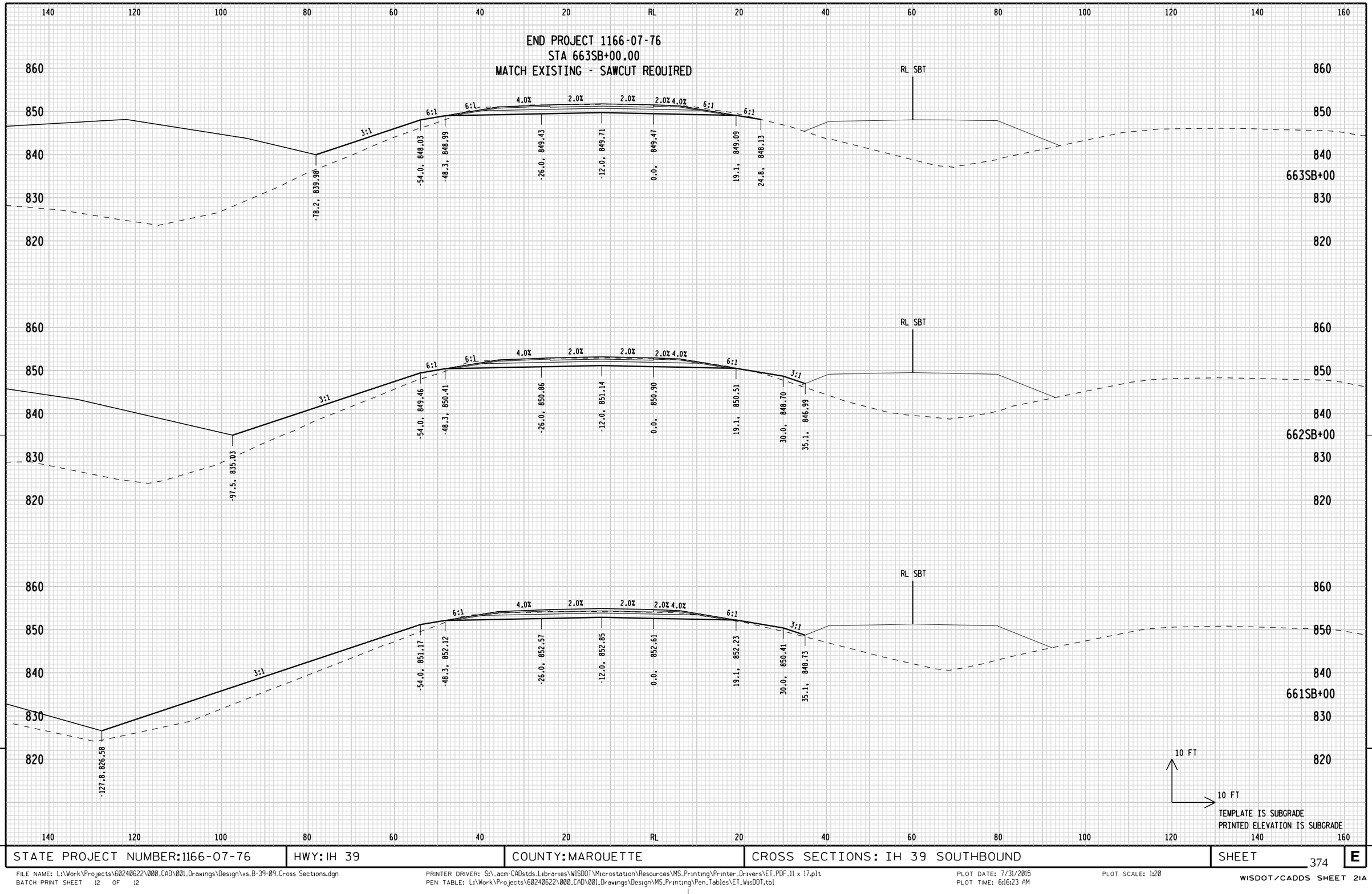
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BATCH PRINT SHEET 10 OF 12
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PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 7/31/2015
PLOT TIME: 6:16:23 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



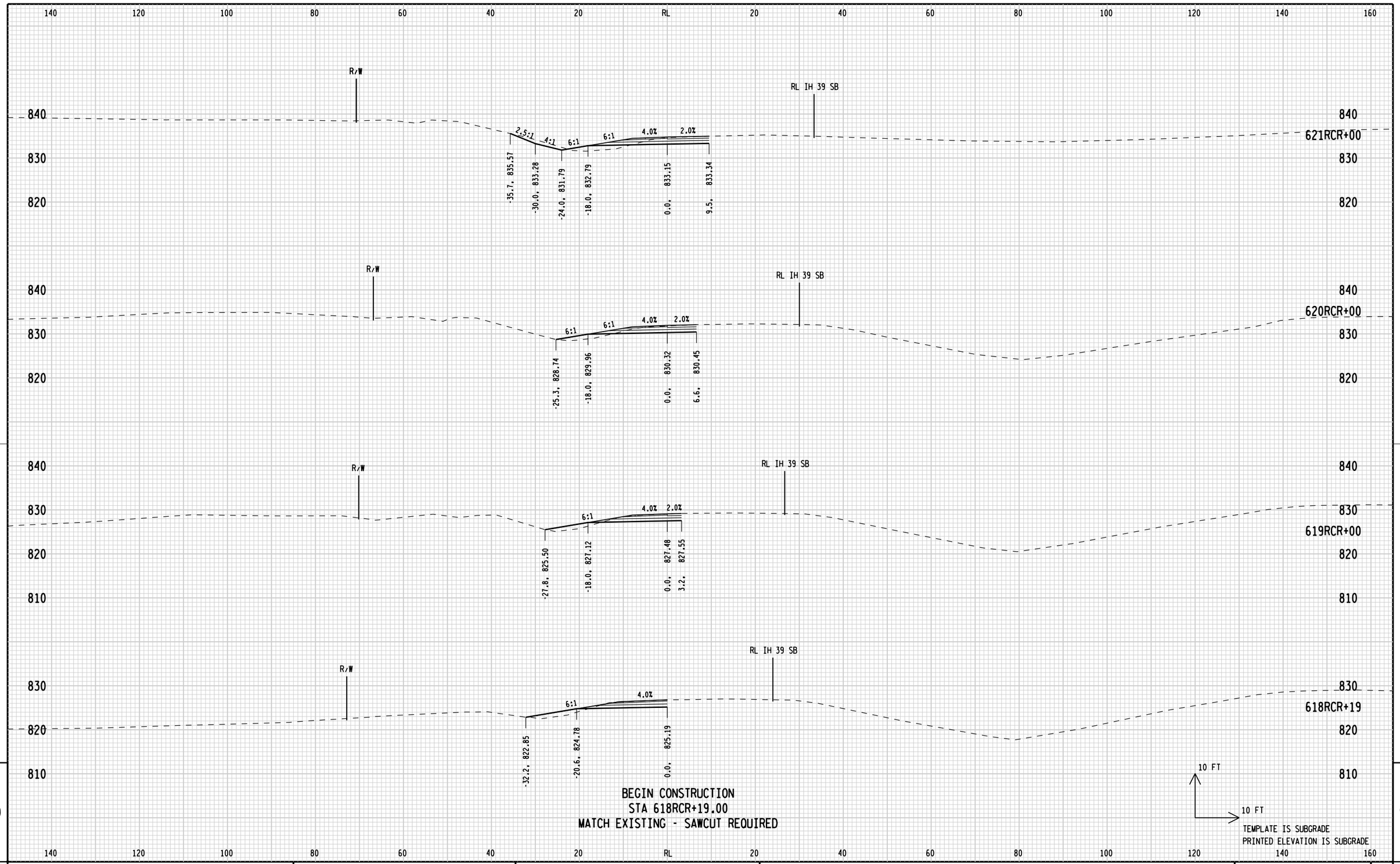
STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 SOUTHBOUND	SHEET 373	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_B-39-09_Cross Sections.dgn
BATCH PRINT SHEET 11 OF 12
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 7/31/2015
PLOT TIME: 6:16:23 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

END PROJECT 1166-07-76
STA 663SB+00.00
MATCH EXISTING - SAWCUT REQUIRED



STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 SOUTHBOUND	SHEET 374	E



9

9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: C RAMP	SHEET 375	E

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

R/W

860
850
840
830

-47.8, 848.16
2.5:1
-30.0, 841.03
4:1
-24.0, 839.54
6:1
-18.0, 840.54
6:1
0.0, 840.90
4.0%
12.0, 841.14
2.0%

RL IH 39 SB

624RCR+00

R/W

860
850
840
830
820

-34.3, 840.29
2.5:1
-30.0, 838.57
4:1
-24.0, 837.08
6:1
-18.0, 838.08
6:1
0.0, 838.44
4.0%
12.0, 838.68
2.0%

RL IH 39 SB

623RCR+00

R/W

850
840
830
820

-36.6, 838.64
2.5:1
-30.0, 836.02
4:1
-24.0, 834.53
6:1
-18.0, 835.53
6:1
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4.0%
12.0, 836.13
2.0%

RL IH 39 SB

622RCR+00

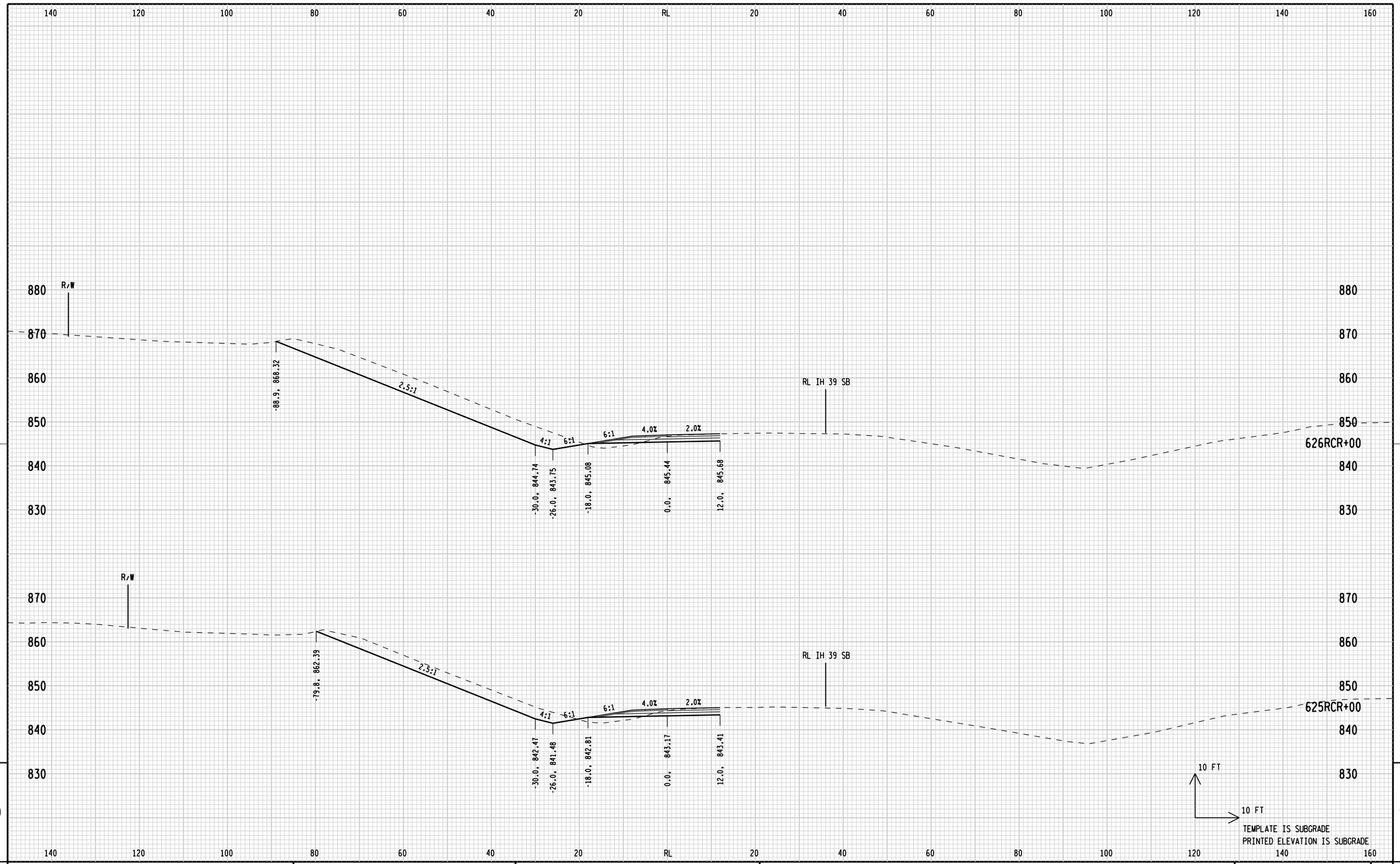
10 FT
10 FT

TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: C RAMP	SHEET 376	E

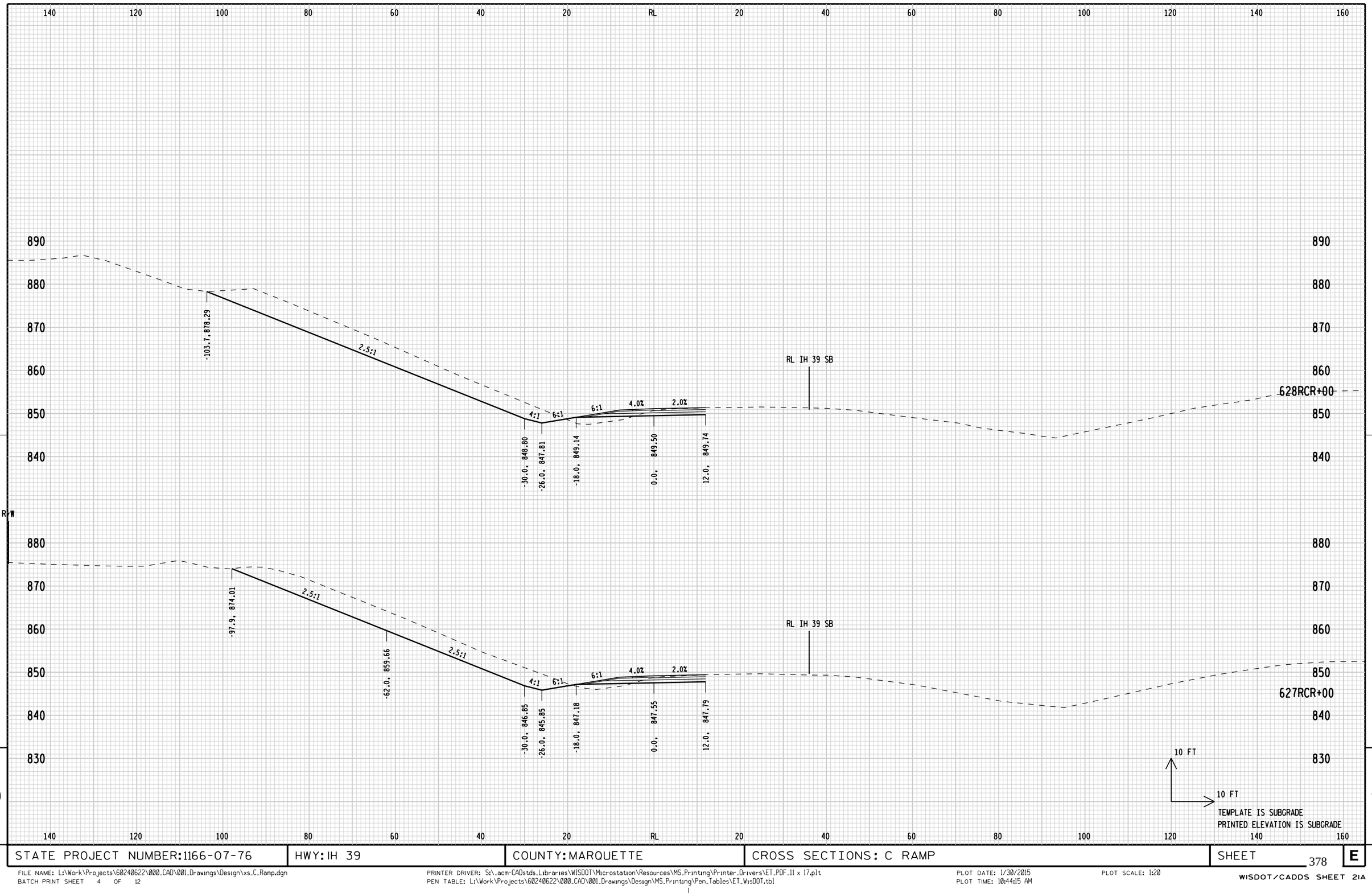


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STATE PROJECT NUMBER:1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: C RAMP	SHEET 377	E

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BATCH PRINT SHEET 3 OF 12
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:44:15 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: C RAMP	SHEET 378	E

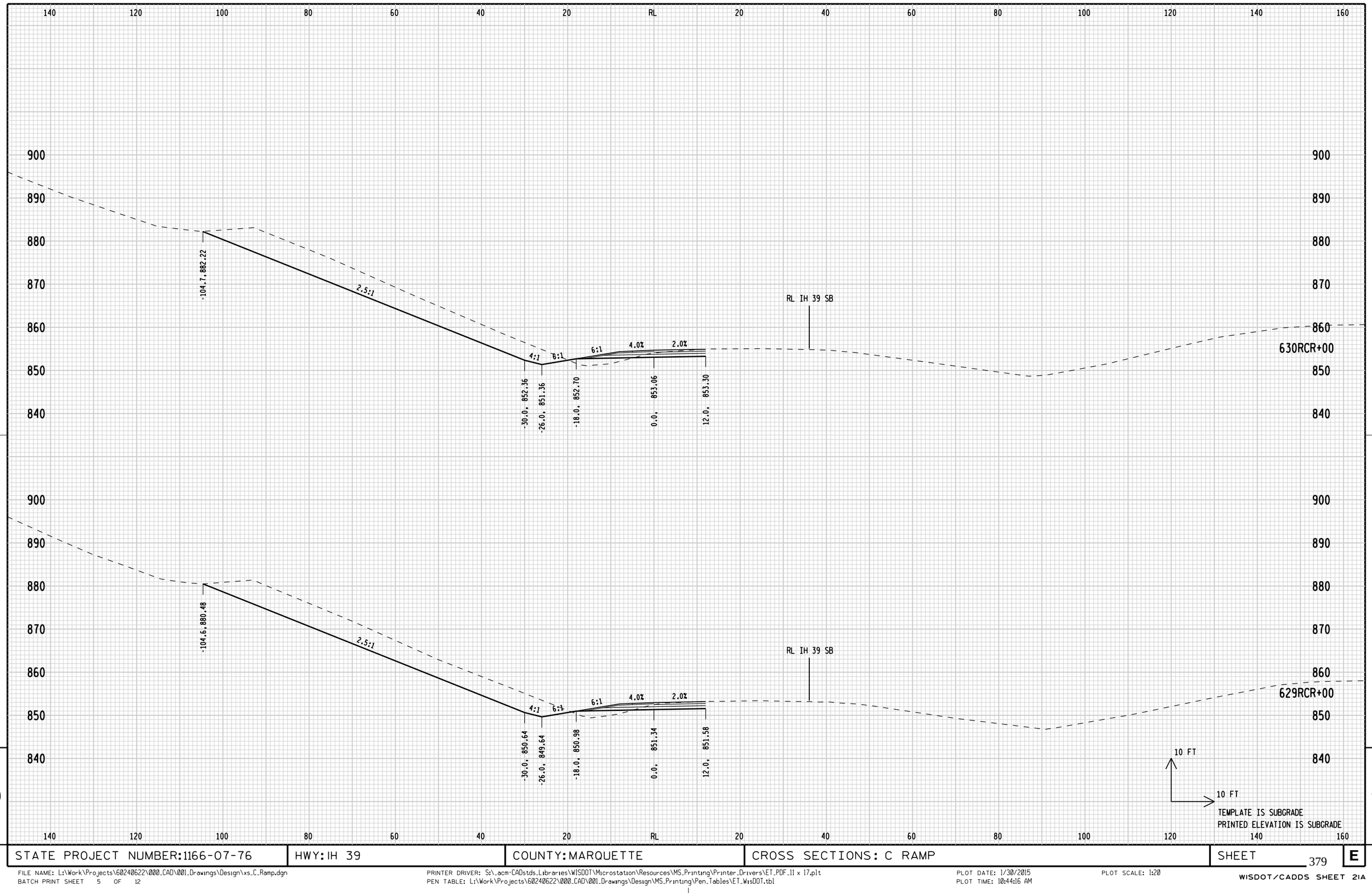
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BATCH PRINT SHEET 4 OF 12

PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 1/30/2015
PLOT TIME: 10:44:15 AM

PLOT SCALE: 1:20

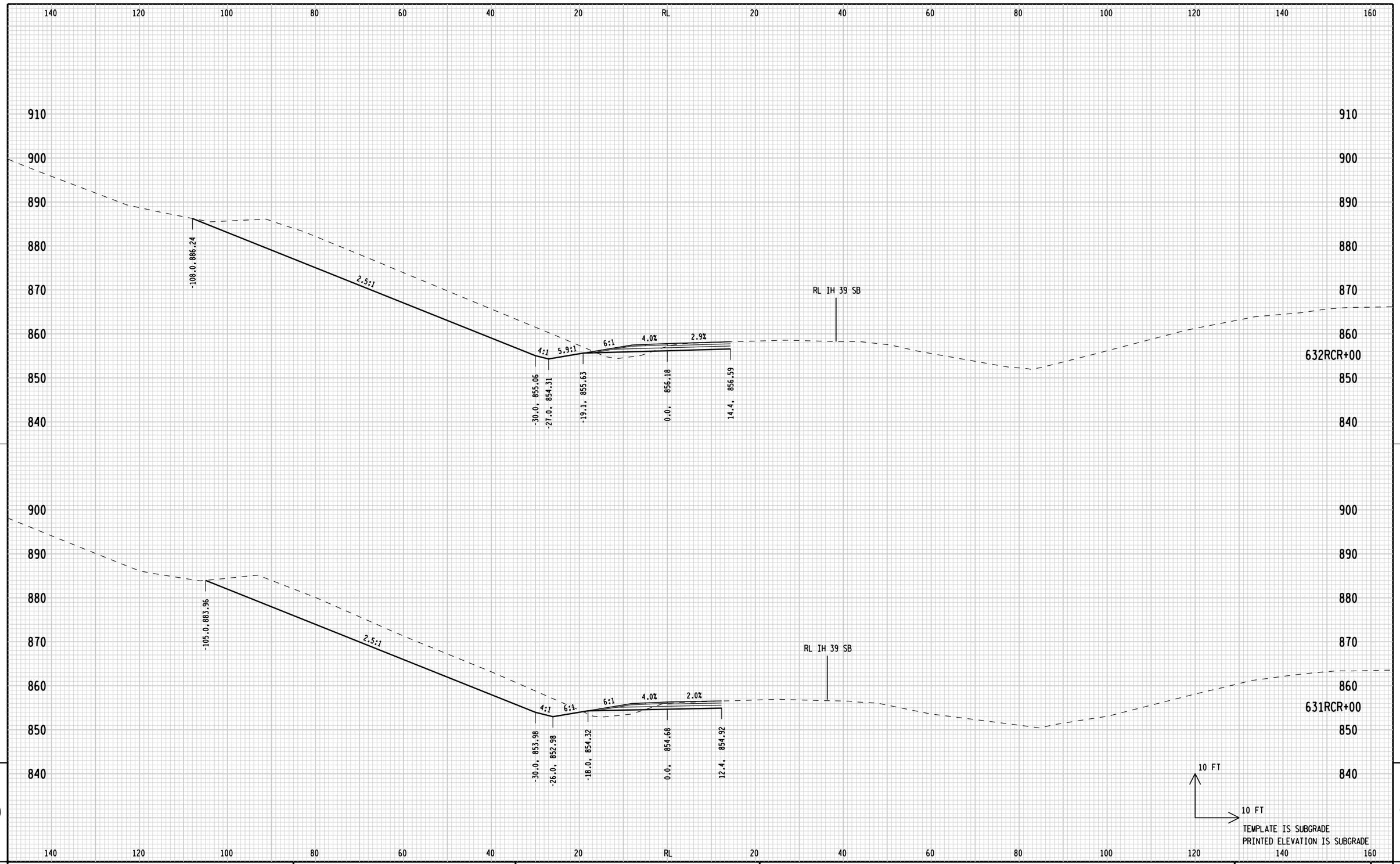
WISDOT/CADDS SHEET 21A



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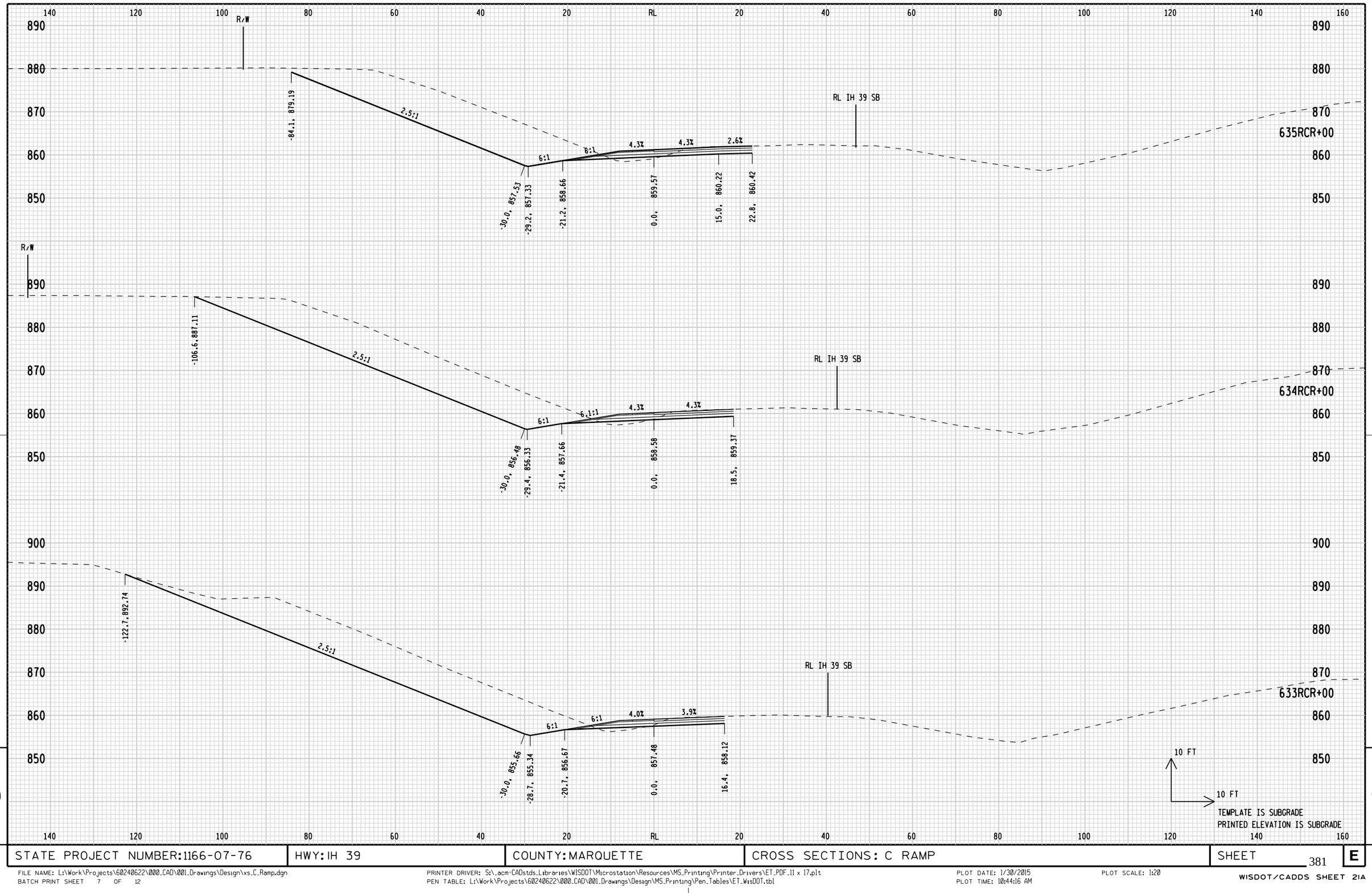
STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: C RAMP	SHEET 379	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_C_Ramp.dgn
BATCH PRINT SHEET 5 OF 12
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 1/30/2015
PLOT TIME: 10:44:16 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: C RAMP	SHEET 380	E

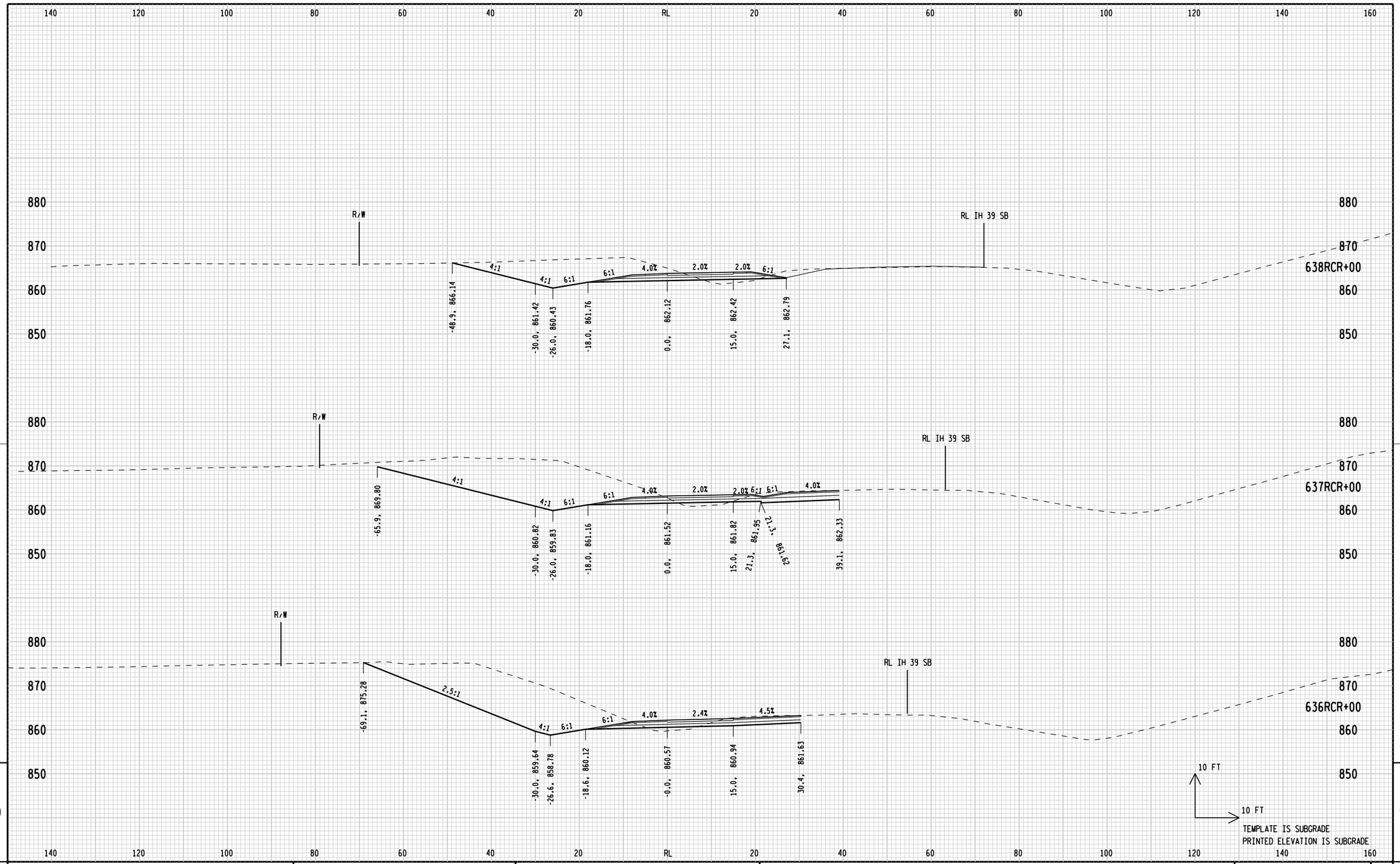
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BATCH PRINT SHEET 6 OF 12
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:44:16 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: C RAMP	SHEET	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_C_Ramp.dgn
BATCH PRINT SHEET 7 OF 12
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:44:16 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: C RAMP	SHEET 382 E

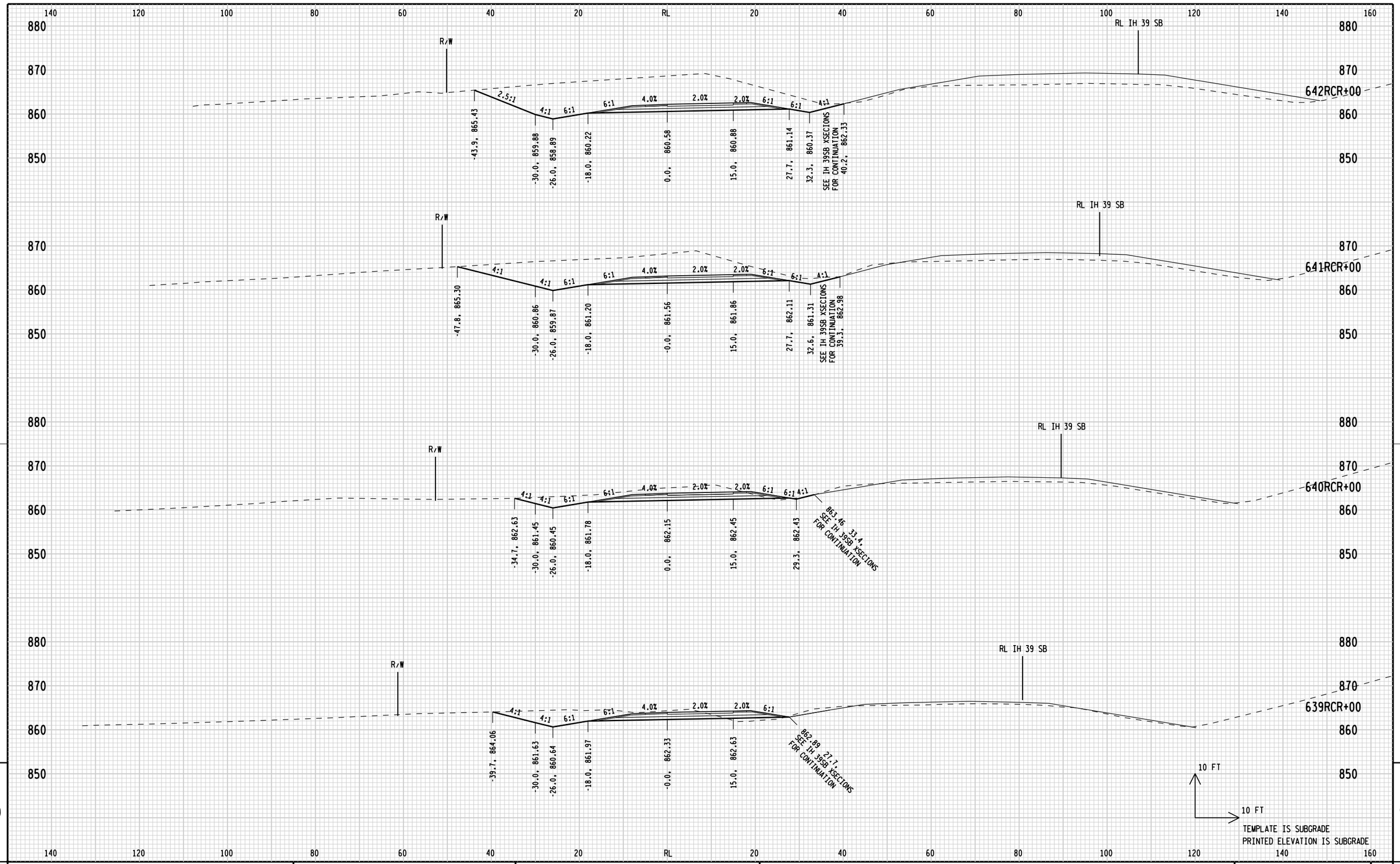
FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_C_Ramp.dgn
BATCH PRINT SHEET 8 OF 12

PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl

PLOT DATE: 1/30/2015
PLOT TIME: 10:44:16 AM

PLOT SCALE: 1:20

WISDOT/CADDS SHEET 21A



9

9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: C RAMP	SHEET 383	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_C_Ramp.dgn
BATCH PRINT SHEET 9 OF 12
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000.CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:44:17 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

870 860 850 840

RL IH 39 SB

T.L.E. R/W

4:1 6:1 6:1 5.0% 5.0% 5.0% 6:1 6:1 4:1

-55.6, 856.73 -30.0, 850.32 -22.0, 851.65 0.0, 852.75 15.0, 853.50 26.5, 854.08 33.6, 852.89

SEE IH 39SB XSECIONS FOR CONTINUATION 72.3, 862.57

646RCR+00

RL IH 39 SB

T.L.E. R/W

2.5:1 4:1 6:1 6:1 4.0% 2.9% 2.9% 6:1 6:1 4:1

-42.0, 858.91 -30.0, 854.09 -27.2, 853.40 -19.2, 854.73 -0.0, 855.29 15.0, 855.73 27.3, 856.09 32.1, 855.30

SEE IH 39SB XSECIONS FOR CONTINUATION 69.2, 864.59

645RCR+00

RL IH 39 SB

T.L.E. R/W

2.5:1 4:1 6:1 6:1 4.0% 2.0% 2.0% 6:1 6:1 4:1

-39.3, 860.48 -30.0, 856.75 -26.0, 855.75 -18.0, 857.09 -0.0, 857.45 15.0, 857.75 27.7, 858.00 32.3, 857.23

SEE IH 39SB XSECIONS FOR CONTINUATION 53.5, 862.50

644RCR+00

RL IH 39 SB

R/W

2.5:1 4:1 6:1 6:1 4.0% 2.0% 2.0% 6:1 6:1 4:1

-44.4, 864.27 -30.0, 858.51 -26.0, 857.52 -18.0, 858.85 -0.0, 859.21 15.0, 859.51 27.7, 859.77 32.6, 858.96

SEE IH 39SB XSECIONS FOR CONTINUATION 45.7, 862.32

643RCR+00

10 FT

10 FT

TEMPLATE IS SUBGRADE

PRINTED ELEVATION IS SUBGRADE

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

9 9

STATE PROJECT NUMBER: 1166-07-76 | HWY: IH 39 | COUNTY: MARQUETTE | CROSS SECTIONS: C RAMP | SHEET 384 E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_C_Ramp.dgn
BATCH PRINT SHEET 10 OF 12
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:44:17 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

860 850 840 830

649RCR+00

4:1 6:1 6:1 5.0% 5.0% 5.0% 6:1 6:1 4:1

-64.2, 849.17 | -30.0, 840.62 | -22.0, 841.95 | 0.0, 843.05 | 15.0, 843.80 | 26.5, 844.38 | 34.5, 843.04 | 39.1, 844.19

870 860 850 840

R/W

648RCR+00

4:1 6:1 6:1 5.0% 5.0% 5.0% 6:1 6:1 4:1

-63.7, 852.44 | -30.0, 844.01 | -22.0, 845.34 | 0.0, 846.44 | 15.0, 847.19 | 26.5, 847.77 | 34.5, 846.44 | 47.3, 849.63

870 860 850 840

R/W

647RCR+00

4:1 6:1 6:1 5.0% 5.0% 5.0% 6:1 6:1 4:1

-54.8, 853.57 | -30.0, 847.36 | -22.0, 848.69 | 0.0, 849.79 | 15.0, 850.54 | 26.5, 851.12 | 37.7, 849.25 | SEE IH 39SB XSECIONS FOR CONTINUATION 62.0, 855.31

10 FT

10 FT

TEMPLATE IS SUBGRADE

PRINTED ELEVATION IS SUBGRADE

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

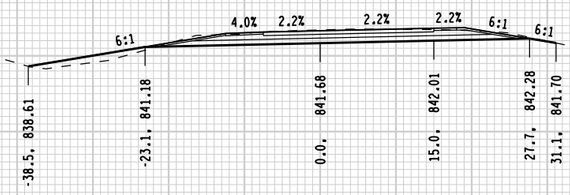
9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: C RAMP	SHEET 385	E

END CONSTRUCTION
STA 650RCR+70.60
MATCH EXISTING - SAWCUT REQUIRED

STA 650RCR+40
CULVERT PIPE REINFORCED CONCRETE CLASS III 30-INCH
W/ APRON ENDWALLS REQUIRED
INV 836.62 (W)
INV 837.50 (E)







TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: C RAMP	SHEET 386	E

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

850
840
830

R/W

4:1 6:1 6:1 4.8% 4.8% 4.8% 6:1 6:1 4:1

-53.9, 832.71
-30.0, 838.67
-15.6, 841.07
0.0, 840.32
15.0, 839.61
32.7, 838.77
45.0, 836.72
52.8, 834.77

652RDR+00

4:1 6:1 6:1 0.1% 0.1% 0.1% 6:1 6:1

-40.5, 836.67
-30.0, 839.28
-17.8, 841.31
-0.0, 841.32
15.0, 841.34
28.7, 841.35
47.2, 838.27

651RDR+00

BEGIN CONSTRUCTION
STA 649RDR+99.48
MATCH EXISTING - SAWCUT REQUIRED

649RDR+99.48

10 FT
10 FT
TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

9 9

STATE PROJECT NUMBER:1166-07-76	HWY:IH 39	COUNTY:MARQUETTE	CROSS SECTIONS: D RAMP	SHEET 387	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_D_Ramp.dgn
BATCH PRINT SHEET 1 OF 8
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:46:10 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

850 840 830 820 810

R/W

4:1 6:1 6:1 5.0% 5.0% 5.0% 6:1 6:1 4:1

-66.1, 826.82 | -30.0, 835.84 | -15.5, 838.25 | 0.0, 837.47 | 15.0, 836.72 | 33.0, 835.82 | 45.0, 833.82 | 67.5, 828.20

655RDR+00

R/W

4:1 6:1 6:1 5.0% 5.0% 5.0% 6:1 6:1 4:1

-64.9, 827.97 | -30.0, 836.69 | -15.5, 839.10 | 0.0, 838.32 | 15.0, 837.57 | 33.0, 836.68 | 45.0, 834.67 | 60.2, 830.86

654RDR+00

R/W

6:1 4:1 6:1 6:1 5.0% 5.0% 5.0% 6:1 6:1 4:1

-66.2, 831.87 | -58.4, 830.58 | -30.0, 837.69 | -15.5, 840.10 | 0.0, 839.32 | 33.0, 837.68 | 45.0, 835.67 | 54.1, 833.41

653RDR+00

10 FT

10 FT

TEMPLATE IS SUBGRADE

PRINTED ELEVATION IS SUBGRADE

9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: D RAMP	SHEET 388	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_D_Ramp.dgn
BATCH PRINT SHEET 2 OF 8
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000.CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:46:10 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

850 840 830 820

RL C LINE

6:1 A:1 6:1 6:1 5.0% 5.0% 5.0% 6:1 6:1 4:1

-84.9, 824.86 | TE | -30.0, 838.59 | -15.5, 841.00 | 0.0, 840.23 | 15.0, 839.48 | 33.0, 838.58 | 45.0, 836.57 | 83.6, 826.92

658RDR+00

E

4:1 6:1 6:1 5.0% 5.0% 5.0% 6:1 6:1 4:1

-59.6, 829.82 | -30.0, 837.23 | -15.6, 839.64 | 0.0, 838.87 | 15.0, 838.12 | 33.0, 837.22 | 45.0, 835.21 | 74.3, 827.88 | E

657RDR+00

4:1 6:1 6:1 5.0% 5.0% 5.0% 6:1 6:1 4:1

-66.1, 826.98 | -30.0, 836.02 | -15.5, 838.43 | 0.0, 837.65 | 15.0, 836.90 | 33.0, 836.00 | 45.0, 834.00 | 65.3, 828.92

656RDR+00

10 FT

10 FT

TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: D RAMP	SHEET 389	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_D_Ramp.dgn
BATCH PRINT SHEET 3 OF 8
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:46:10 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

850 840 830 820

3:1 6:1 6:1 4.0% 3.0% 3.0% 6:1 6:1 6:1 3.3:1

-79.2, 825.37 | -30.0, 841.77 | -19.4, 843.55 | 0.0, 844.13 | 27.3, 844.95 | 35.3, 843.62 | 45.0, 842.00 | 98.5, 826.00

G E T R/W

661RDR+00

STA 660RDR+00
CULVERT PIPES REINFORCED CONCRETE CLASS III 30-INCH
W/ APRON ENDWALLS REQUIRED
INV 824.60 (NW)
INV 824.97 (SE)

850 840 830 820

1.7:1 3:1 6:1 6:1 1.1% 1.1% 1.1% 6:1 6:1 3:1 1.8:1 3.7%

-74.8, 824.58 | -69.7, 827.59 | +30.0, 840.82 | -18.5, 842.74 | 0.0, 842.95 | 15.0, 843.12 | 28.2, 843.27 | 45.0, 840.46 | 81.8, 827.98 | 87.1, 824.99 | 114.1, 825.98

E T

660RDR+00

850 840 830 820

3:1 6:1 6:1 3.7% 3.7% 3.7% 6:1 6:1 3:1

-72.4, 825.73 | +30.0, 839.85 | -16.0, 842.19 | 841.59 | 0.0 | 15.0, 841.03 | 31.5, 840.41 | 45.0, 838.16 | 71.5, 829.33

E T

659RDR+00

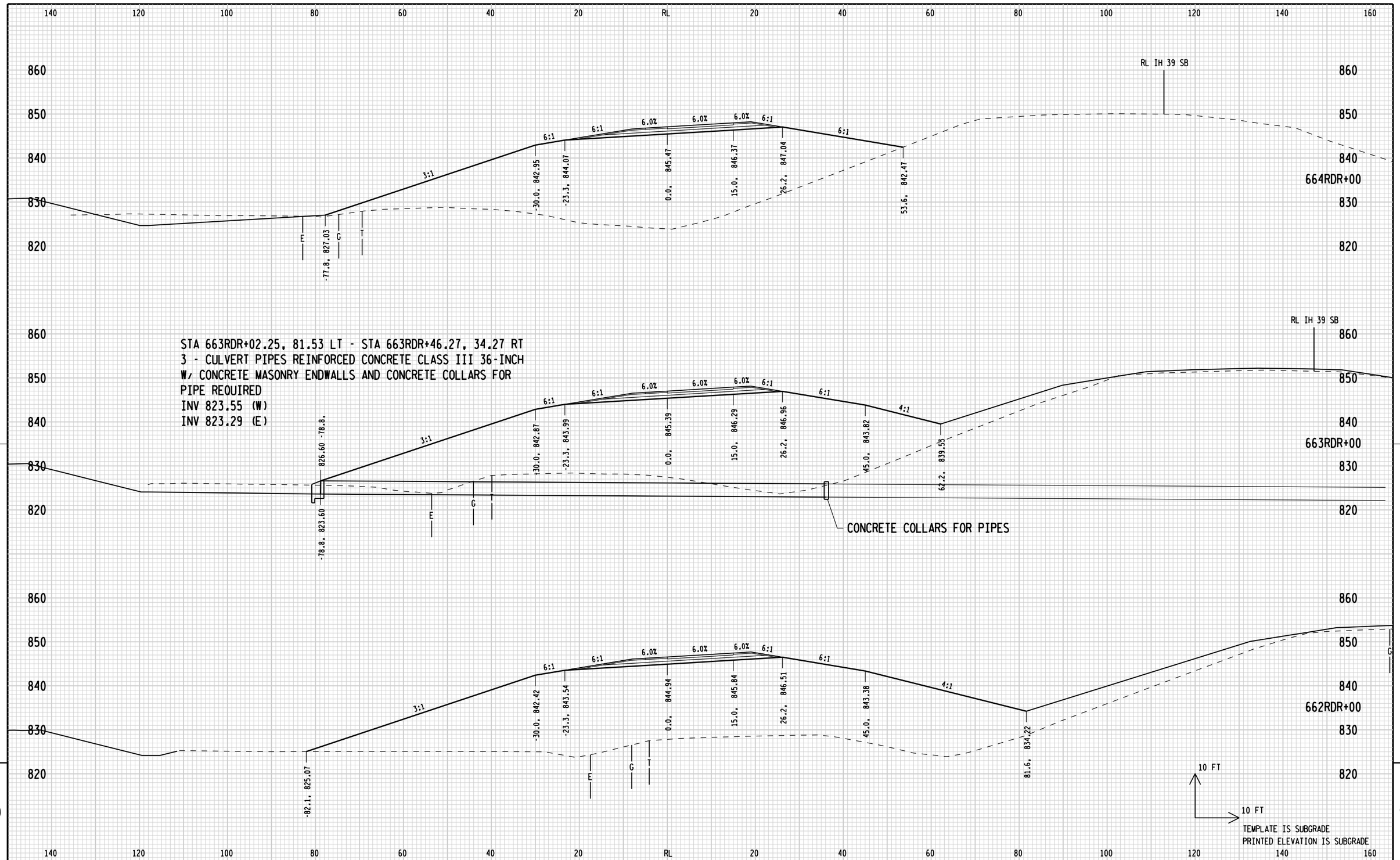
10 FT
10 FT

TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: D RAMP	SHEET 390	E



STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: D RAMP	SHEET E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_D_Ramp.dgn
BATCH PRINT SHEET 5 OF 8
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:46:11 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

850 840 830 820

RL C LINE

E G T

-77.2, 829.52

A:1 6:1 6:1 4.0% 2.1% 2.1%

-30.0, 841.33 -18.2, 843.31 0.0, 843.69 15.0, 844.01 38.4, 844.50

RL IH 39 SB

667RDR+00

RL C LINE

E G T

-77.6, 830.11

4:1 6:1 6:1 5.9% 5.9% 5.9% 6:1 6:1

-30.0, 842.02 -23.1, 843.18 0.0, 844.53 15.0, 845.40 26.2, 846.06 30.1, 845.41

RL IH 39 SB

666RDR+00

E G T

-70.6, 829.14

3:1 6:1 6:1 6.0% 6.0% 6.0% 6:1 6:1

-30.0, 842.66 -23.3, 843.78 0.0, 845.18 15.0, 846.08 26.2, 846.75 40.5, 844.36

RL IH 39 SB

665RDR+00

10 FT

10 FT

TEMPLATE IS SUBGRADE

PRINTED ELEVATION IS SUBGRADE

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: D RAMP	SHEET 392	E

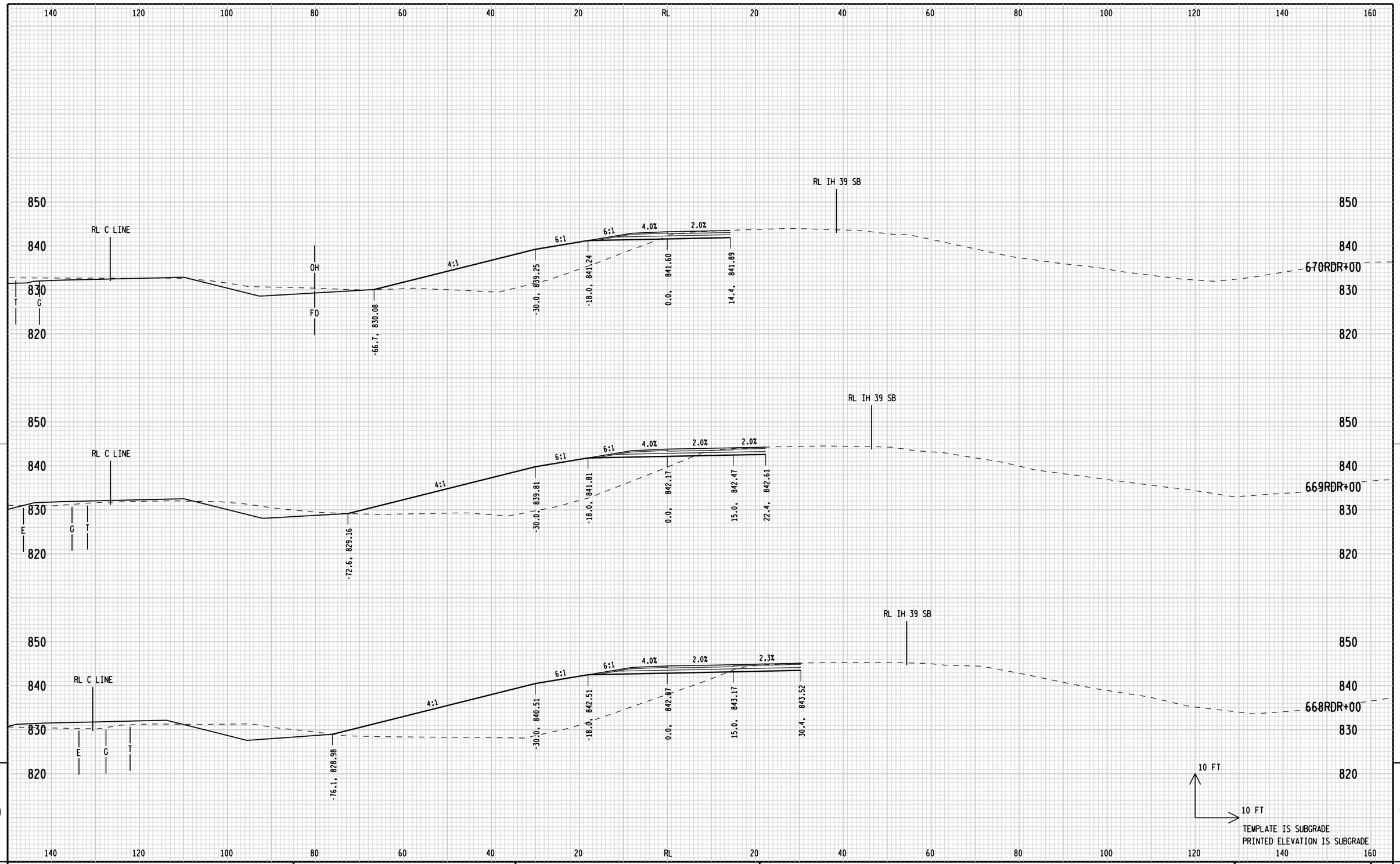
FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_D_Ramp.dgn
BATCH PRINT SHEET 6 OF 8

PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl

PLOT DATE: 1/30/2015
PLOT TIME: 10:46:11 AM

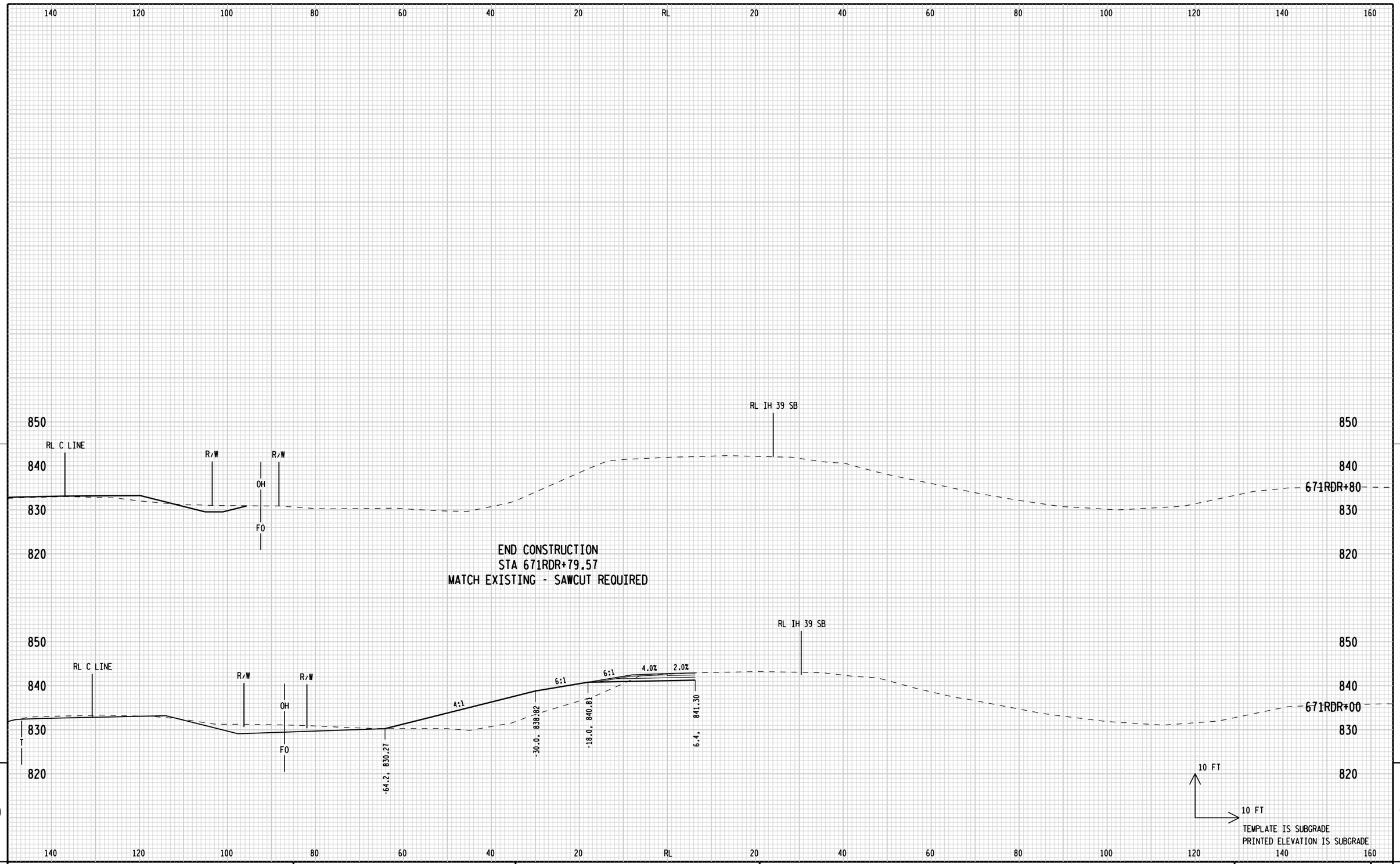
PLOT SCALE: 1:20

WISDOT/CADDS SHEET 21A



STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: D RAMP	SHEET 393	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_D_Ramp.dgn
BATCH PRINT SHEET 7 OF 8
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000.CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:46:11 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9

9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: D RAMP	SHEET 394	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_D_Ramp.dgn
BATCH PRINT SHEET 8 OF 8
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:46:11 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

840 830 820

WETLAND DELINEATION
R/W
4:1 4:1 5.8% 5.8% 5.8% 5.8% 0.4% 4.3%
E
-34.1, 826.05
-22.2, 829.02
-0.0, 830.31
20.2, 831.48
60.0, 830.94
R/W

840 627C+00 830 820

STA 626C+75, RT
CONSTRUCT 50' WIDE ASPHALT PE
SAWCUT REQUIRED

840 830 820

WETLAND DELINEATION
R/W
4:1 4.0% 3.6% 3.6% 3.6% 3.6% 4:1 4:1 0.0% 4:1
E
-22.9, 829.59
-21.6, 829.91
0.0, 830.69
20.5, 831.43
41.8, 826.12
45.8, 826.12
53.4, 828.02
R/W

840 626C+00 830 820

840 830 820

WETLAND DELINEATION
R/W
6:1 4:1 4.0% 2.0% 2.0% 1.5% 1.5% 4:1 4:1
E
-30.5, 828.71
-24.8, 829.66
-20.8, 830.66
-11.0, 830.86
0.0, 831.08
11.0, 830.91
21.3, 830.75
28.9, 828.83
R/W

840 625C+00 830 820

BEGIN CONSTRUCTION
STA 625C+00.00
MATCH EXISTING - SAWCUT REQUIRED

840 830 820

R/W
R/W

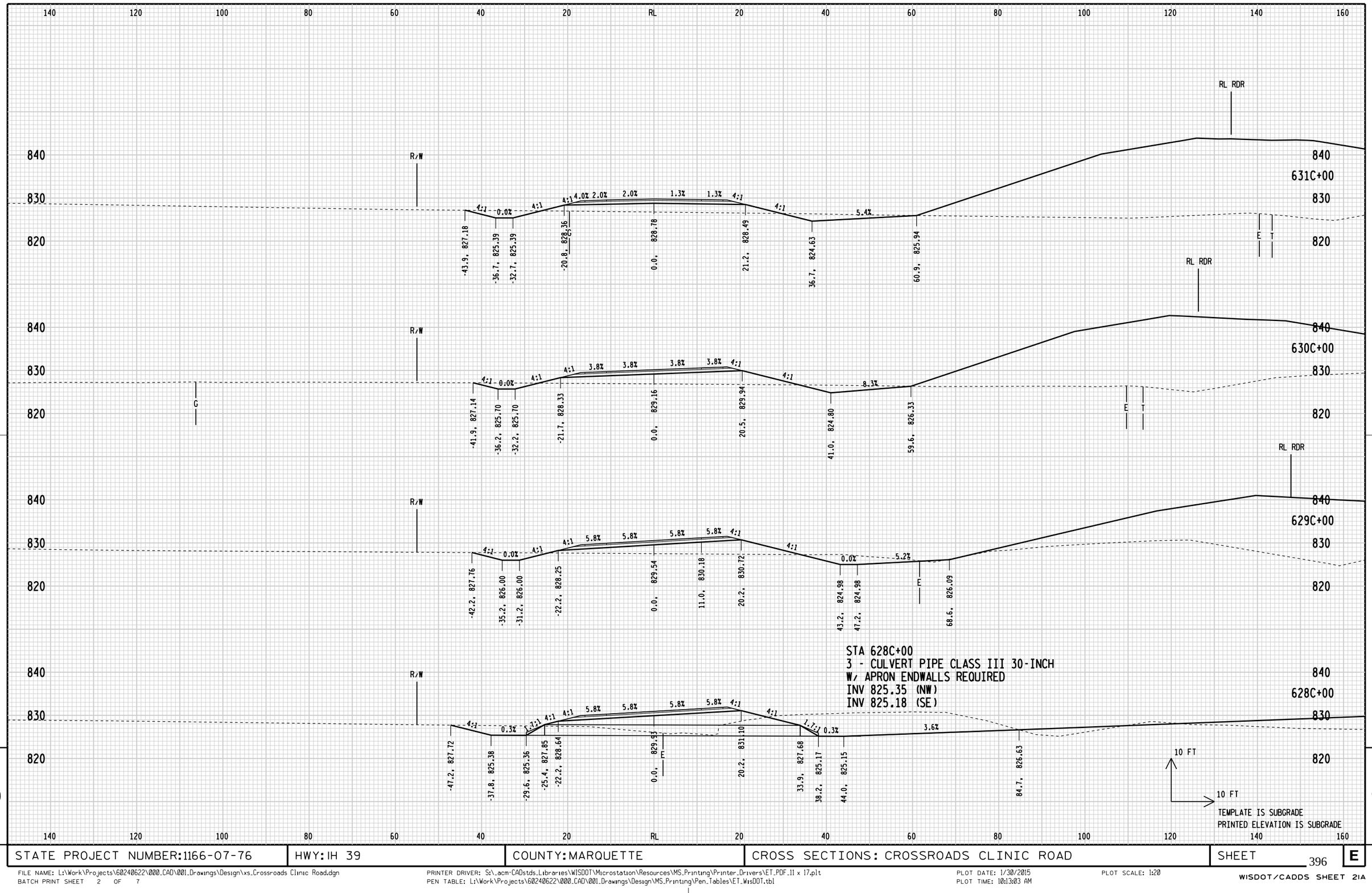
840 624C+50 830 820

10 FT
10 FT
TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CROSSROADS CLINIC ROAD	SHEET 395 E



9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CROSSROADS CLINIC ROAD	SHEET 396 E

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

840
830
820

R/W

4:1 0.0% 4:1 4:1 2.4% 2.4% 2.4% 2.4% 4:1 4:1 0.0% 4:1

-46.5, 825.92
-40.7, 824.48
-36.7, 824.48
-21.0, 828.42
0.0, 828.92
20.6, 829.42
41.9, 824.11
45.9, 824.11
50.5, 825.27

RL RDR

840
634C+00
830
820

E G T

840
830
820

R/W

4:1 4.0% 2.0% 2.0% 2.0% 2.0% 4.0% 4:1 4:1 0.0% 4:1

-41.5, 825.60
-38.3, 824.79
-34.3, 824.79
-20.8, 828.16
0.0, 828.57
20.8, 828.16
36.3, 824.28
40.3, 824.28
46.8, 825.90

RL RDR

840
633C+00
830
820

E G

840
830
820

R/W

4:1 0.0% 4:1 4:1 4.0% 2.0% 2.0% 2.0% 2.0% 4.0% 4:1 4:1 5.3%

-45.7, 827.33
-36.8, 825.09
-32.8, 825.09
-20.8, 828.08
0.0, 828.50
20.8, 828.08
35.3, 824.46
69.4, 826.25

RL RDR

840
632C+00
830
820

G E T

10 FT
10 FT

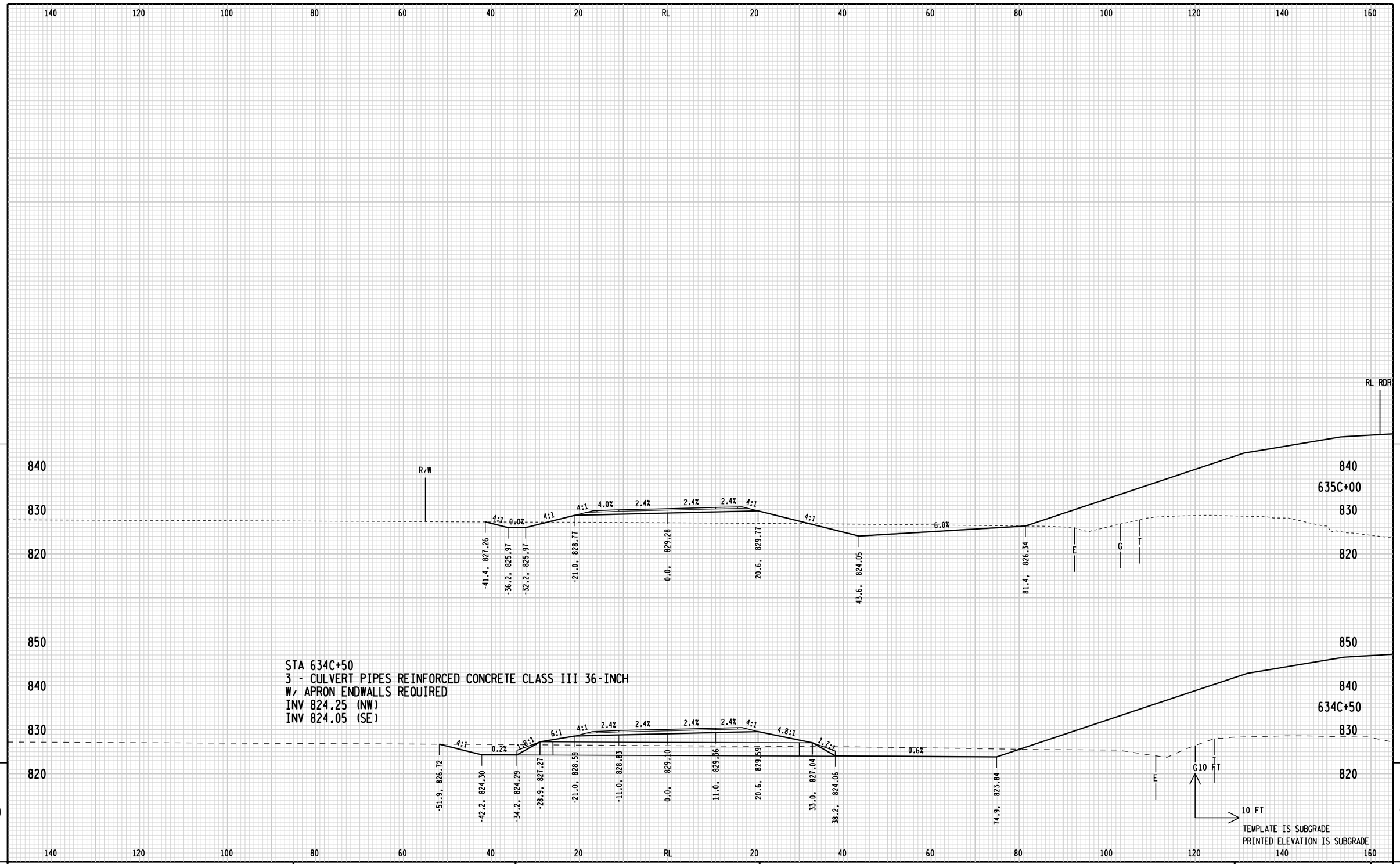
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PRINTED ELEVATION IS SUBGRADE

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CROSSROADS CLINIC ROAD	SHEET 397 E

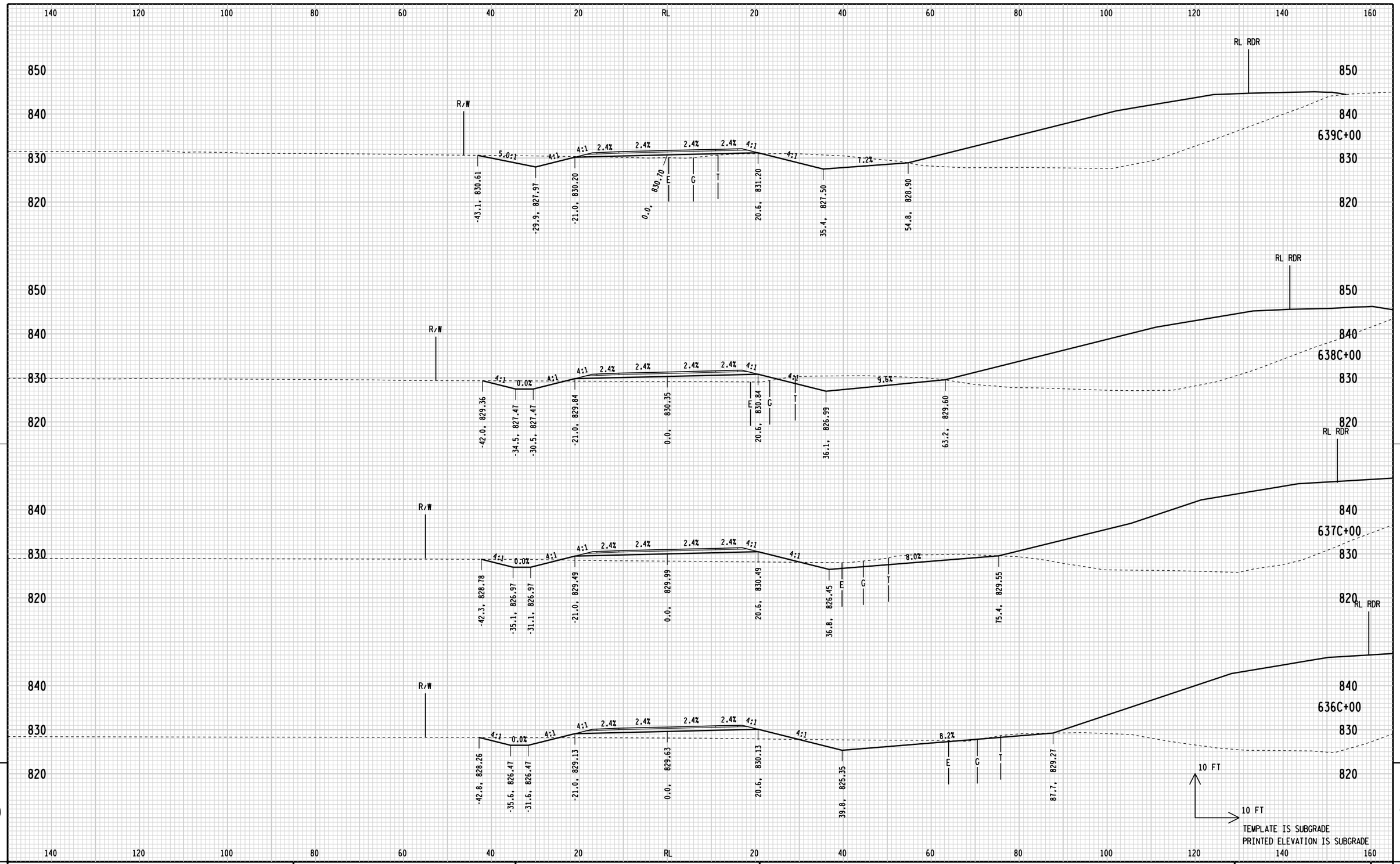
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PLOT DATE: 1/30/2015
PLOT TIME: 10:13:03 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CROSSROADS CLINIC ROAD	SHEET 398	E

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PLOT TIME: 10:13:04 AM
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WISDOT/CADDS SHEET 21A

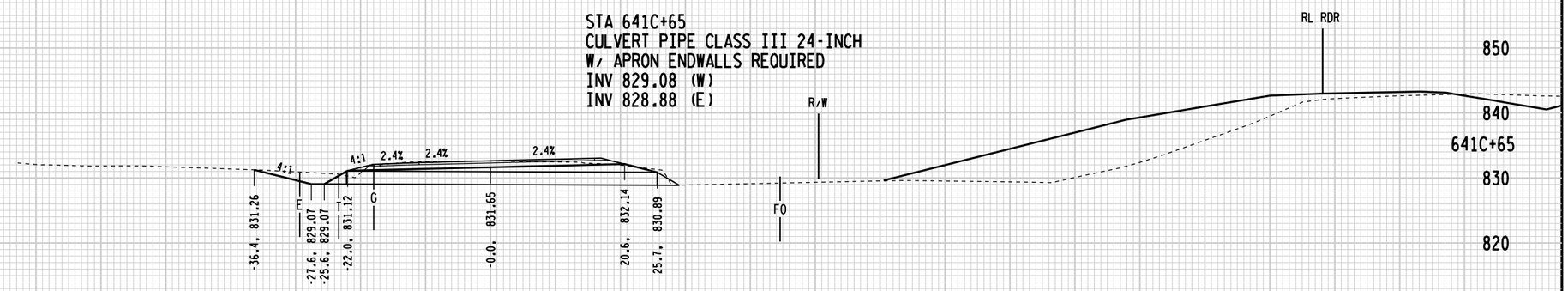


9 9

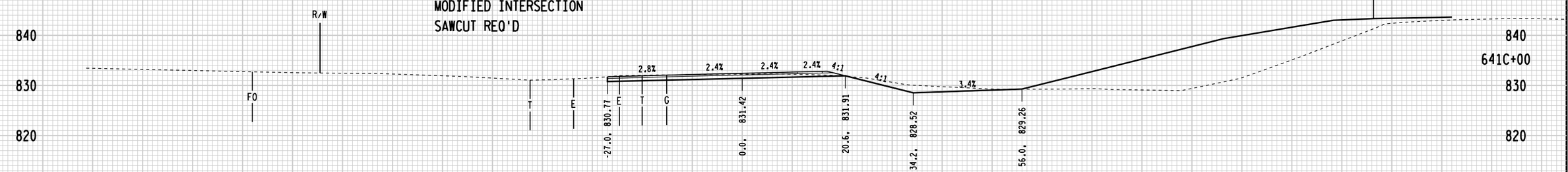
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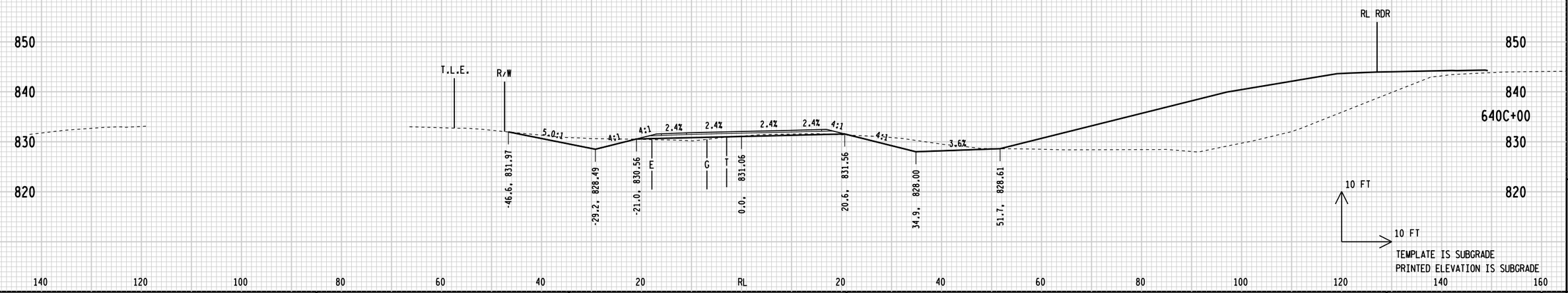
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BATCH PRINT SHEET 5 OF 7
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PLOT DATE: 1/30/2015
PLOT TIME: 10:13:04 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

STA 641C+65
CULVERT PIPE CLASS III 24-INCH
W/ APRON ENDWALLS REQUIRED
INV 829.08 (W)
INV 828.88 (E)



STA 641C+32, LT
CONSTRUCT TYPE C
MODIFIED INTERSECTION
SAWCUT REQ'D

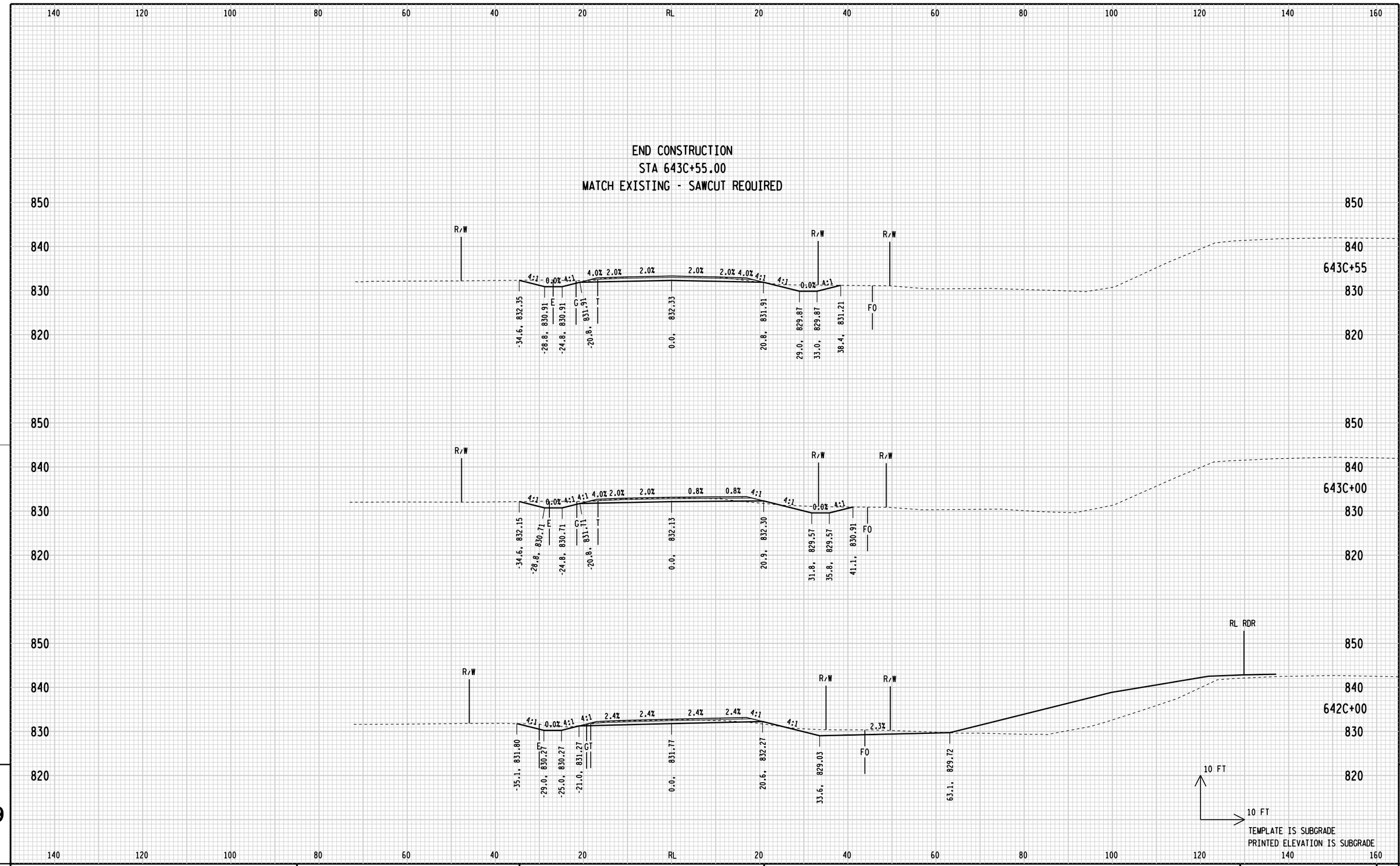




STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CROSSROADS CLINIC ROAD	SHEET 400	E

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WISDOT/CADDS SHEET 21A

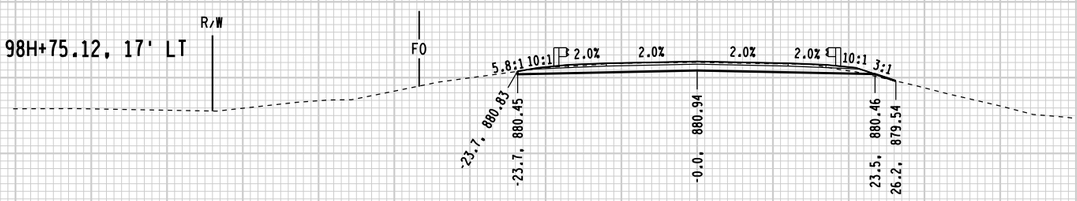
END CONSTRUCTION
STA 643C+55.00
MATCH EXISTING - SAWCUT REQUIRED



STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CROSSROADS CLINIC ROAD	SHEET 401 E

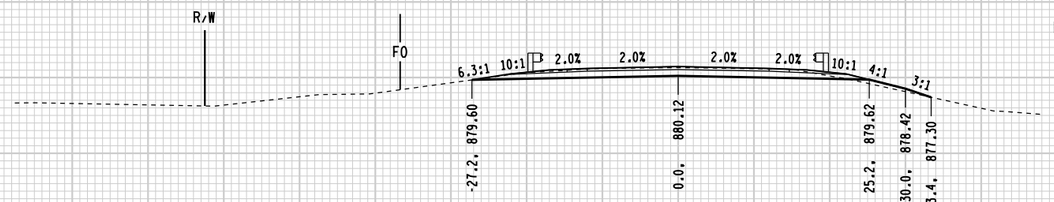
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BATCH PRINT SHEET 7 OF 7
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PLOT DATE: 1/30/2015
PLOT TIME: 10:13:05 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

STA 93H+25.12, 17' LT - STA 98H+75.12, 17' LT
MGS GUARDRAIL 3



R/W STA 93H+25.08, 17' RT - STA 98H+75.08, 17' RT
MGS GUARDRAIL 3

93H+21.96
POST 9



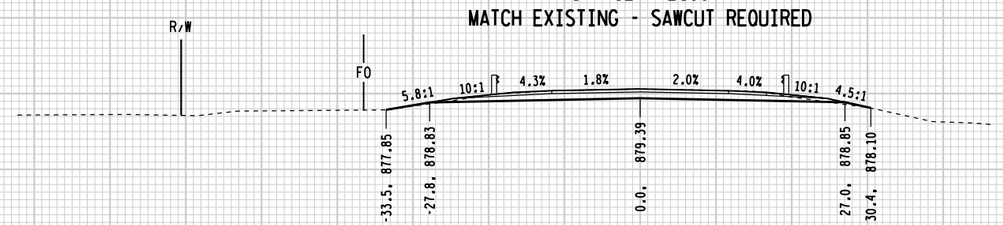
R/W

92H+96.96
POST 5

STA 92H+72.00, 19' LT - STA 93H+25.12, 17' LT
MGS GUARDRAIL TERMINAL EAT

BEGIN CONSTRUCTION
STA 92H+72.00
MATCH EXISTING - SAWCUT REQUIRED

STA 92H+71.96, 19' RT - STA 93H+25.08, 17' RT
MGS GUARDRAIL TERMINAL EAT



R/W

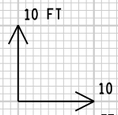
92H+71.96
POST 1

92H+00



91H+55

BEGIN APPROACH TAPER



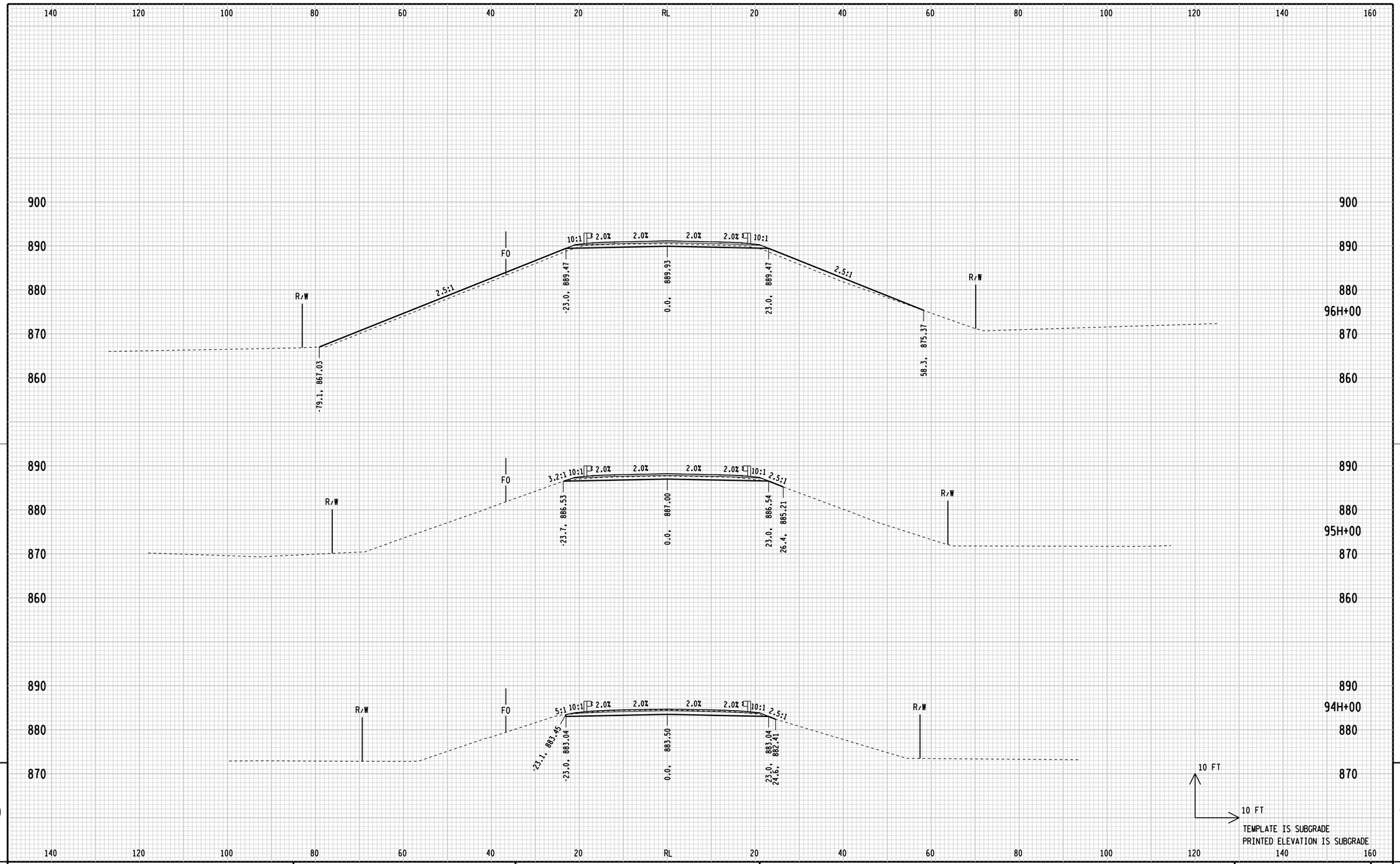
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PRINTED ELEVATION IS SUBGRADE

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STATE PROJECT NUMBER:1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH M	SHEET 402	E

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PLOT DATE: 7/31/2015
PLOT TIME: 8:12:07 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

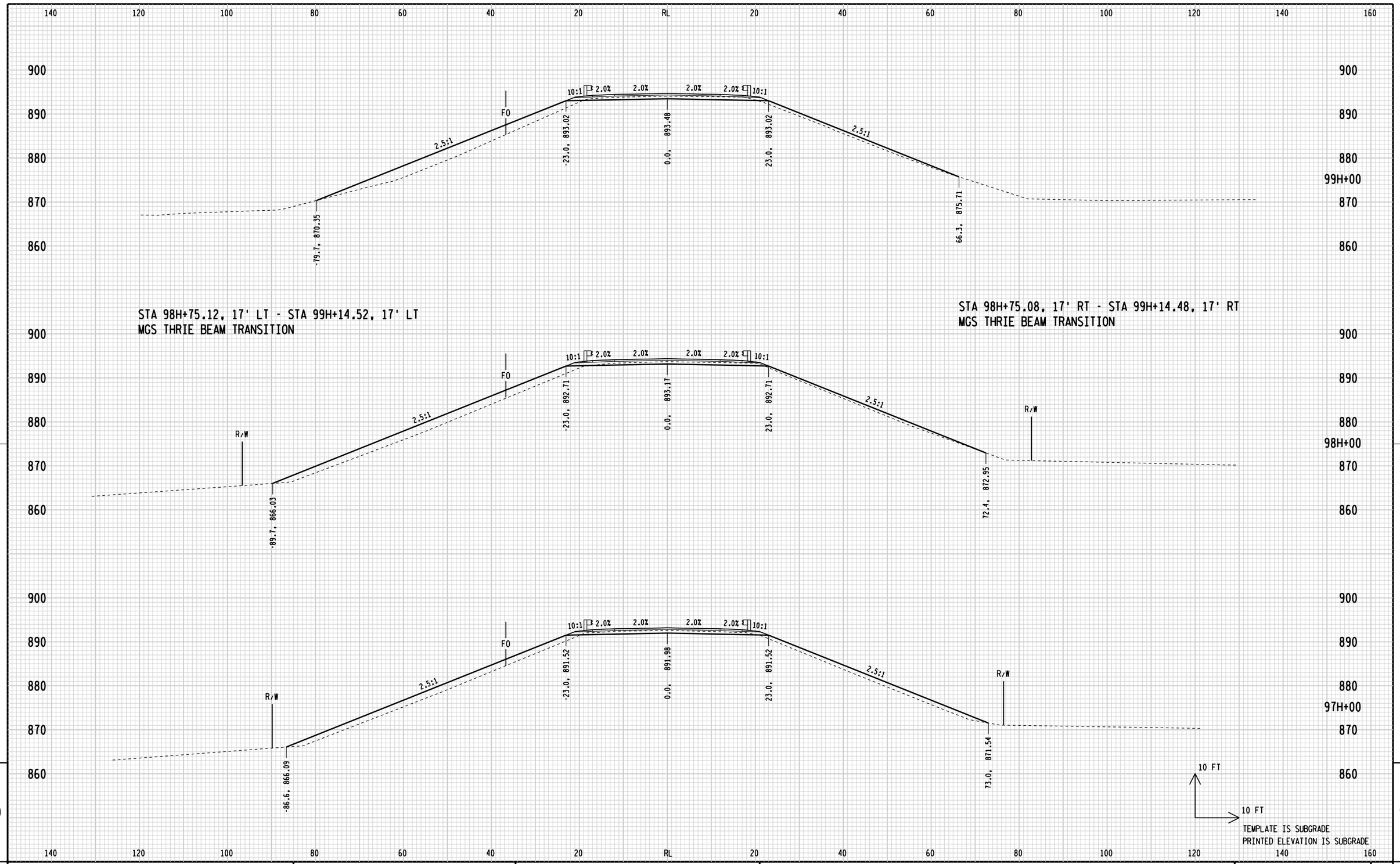


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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH M	SHEET 403	E

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PLOT TIME: 8:12:07 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9

9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH M	SHEET 404	E

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PLOT DATE: 7/31/2015
PLOT TIME: 8:12:08 AM

PLOT SCALE: 1:20

WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

900
890
880
870
860

2.0% 2.0%

FO

-17.0, 893.09
0.0, 893.43
17.0, 893.09

99H+25

10 FT
10 FT

TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH M	SHEET 405	E

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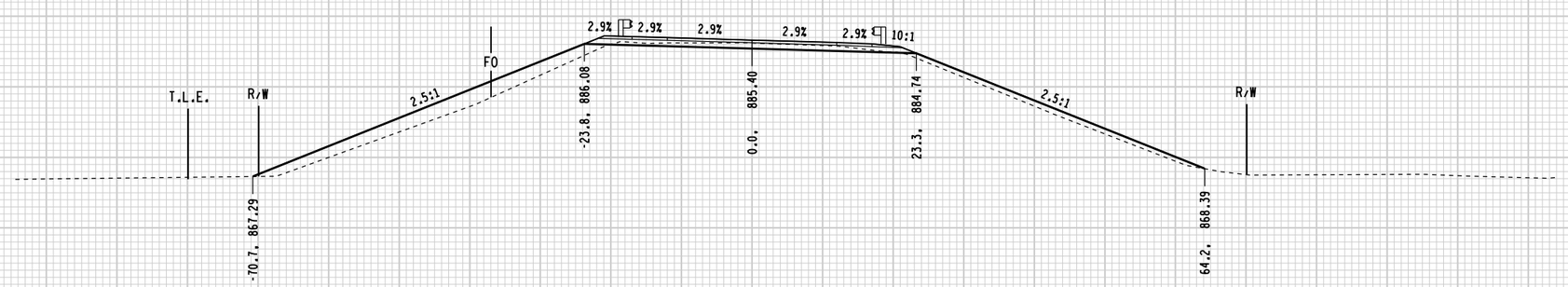
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PLOT DATE: 7/31/2015
PLOT TIME: 8:12:08 AM

PLOT SCALE: 1:20

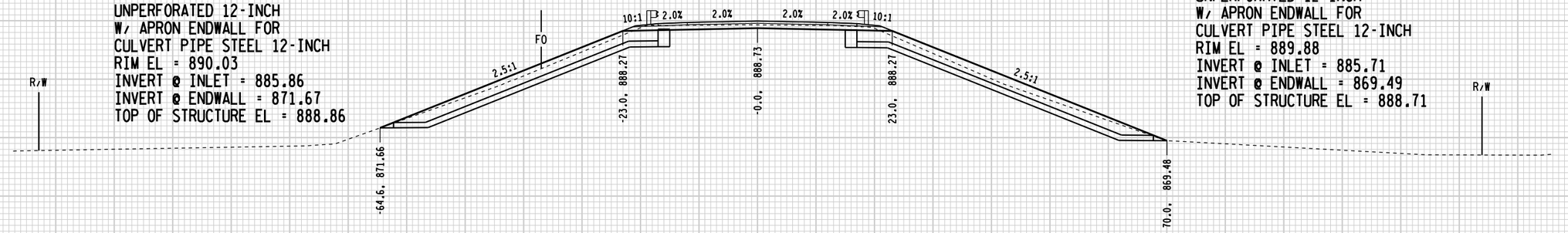
WISDOT/CADDS SHEET 21A

STA 102H+28.90, 17' LT - STA 105H+01.34, 17' LT
MGS GUARDRAIL 3



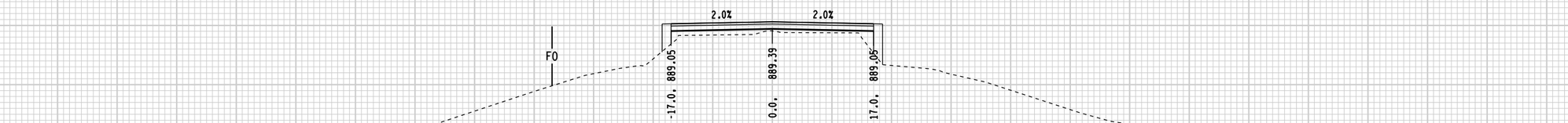
STA 102H+28.90, 17' RT - STA 103H+79.66, 17' RT
MGS GUARDRAIL 3

STA 101H+99.20, 15.65' LT
INLET 2X2-V
W/ PIPE UNDERDRAIN
UNPERFORATED 12-INCH
W/ APRON ENDWALL FOR
CULVERT PIPE STEEL 12-INCH
RIM EL = 890.03
INVERT @ INLET = 885.86
INVERT @ ENDWALL = 871.67
TOP OF STRUCTURE EL = 888.86



STA 101H+99.20, 15.65' RT
INLET 2X2-V
W/ PIPE UNDERDRAIN
UNPERFORATED 12-INCH
W/ APRON ENDWALL FOR
CULVERT PIPE STEEL 12-INCH
RIM EL = 889.88
INVERT @ INLET = 885.71
INVERT @ ENDWALL = 869.49
TOP OF STRUCTURE EL = 888.71

STA 101H+89.50, 17' LT - STA 102H+28.90, 17' LT
MGS THRIE BEAM TRANSITION

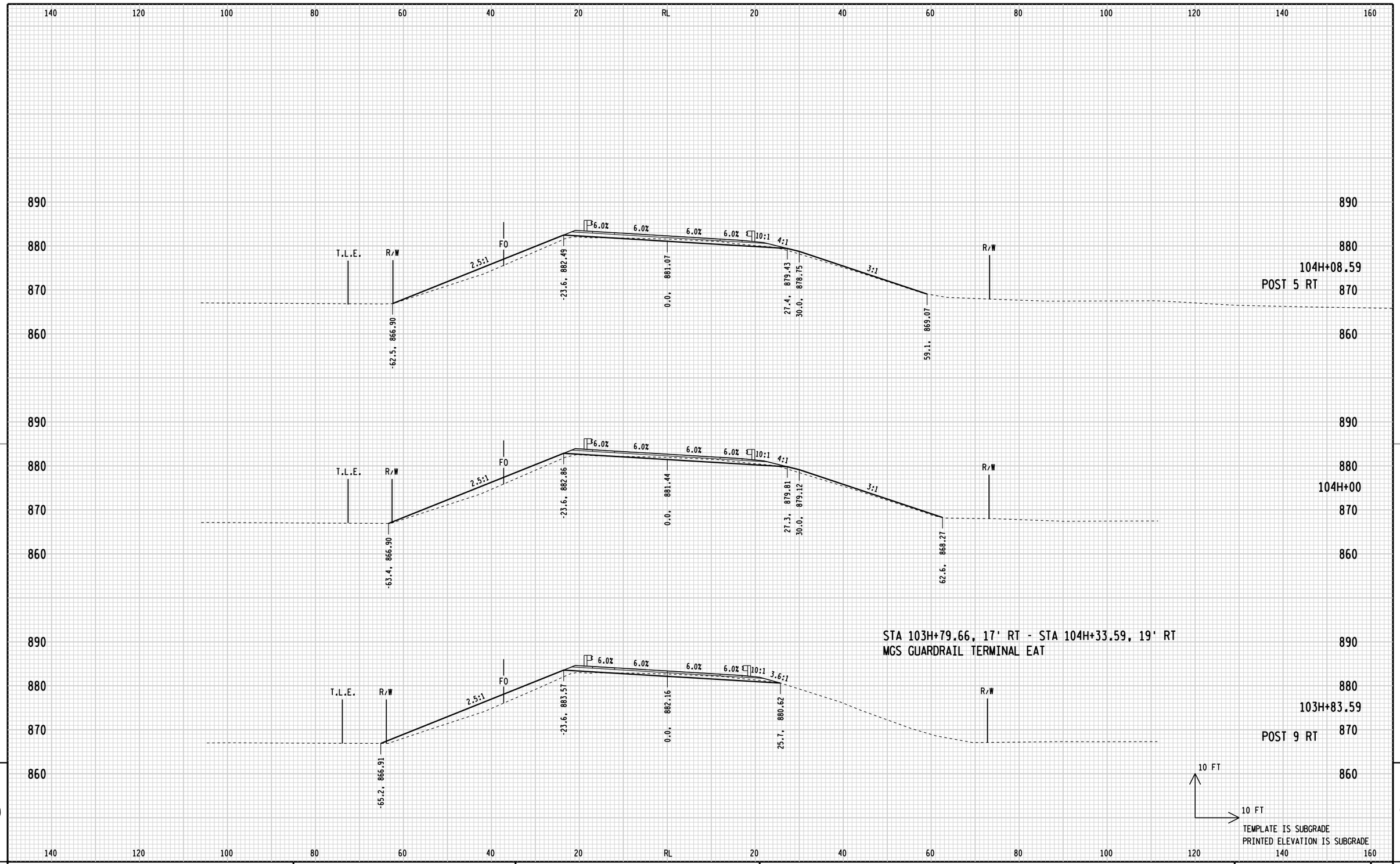


STA 101H+89.50, 17' RT - STA 102H+28.90, 17' RT
MGS THRIE BEAM TRANSITION

10 FT
10 FT
TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

STATE PROJECT NUMBER:1166-07-76	HWY: IH 39	COUNTY:MARQUETTE	CROSS SECTIONS: CTH M	SHEET 406 E

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PLOT TIME: 8:12:08 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9

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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH M	SHEET 407	E

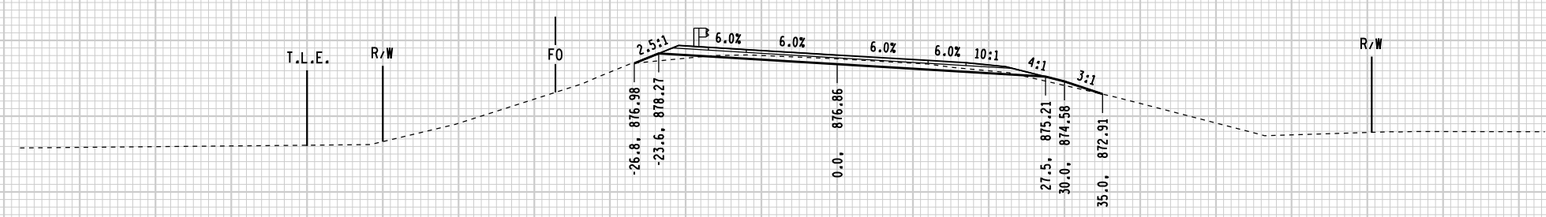
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PLOT DATE: 7/31/2015
PLOT TIME: 8:12:08 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

STA 105H+01.34, 17' LT - STA 105H+53.69, 19' LT
MGS GUARDRAIL TERMINAL EAT



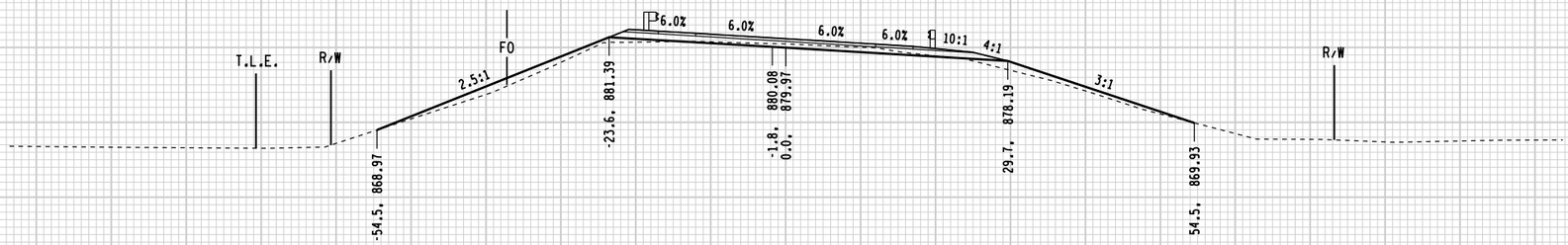
880
870
860

880
105H+03.69
870
POST 9 LT
860



890
880
870
860

890
880
105H+00
870
860



890
880
870
860

890
880
104H+33.59
870
POST 1 RT
860

10 FT
10 FT
TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

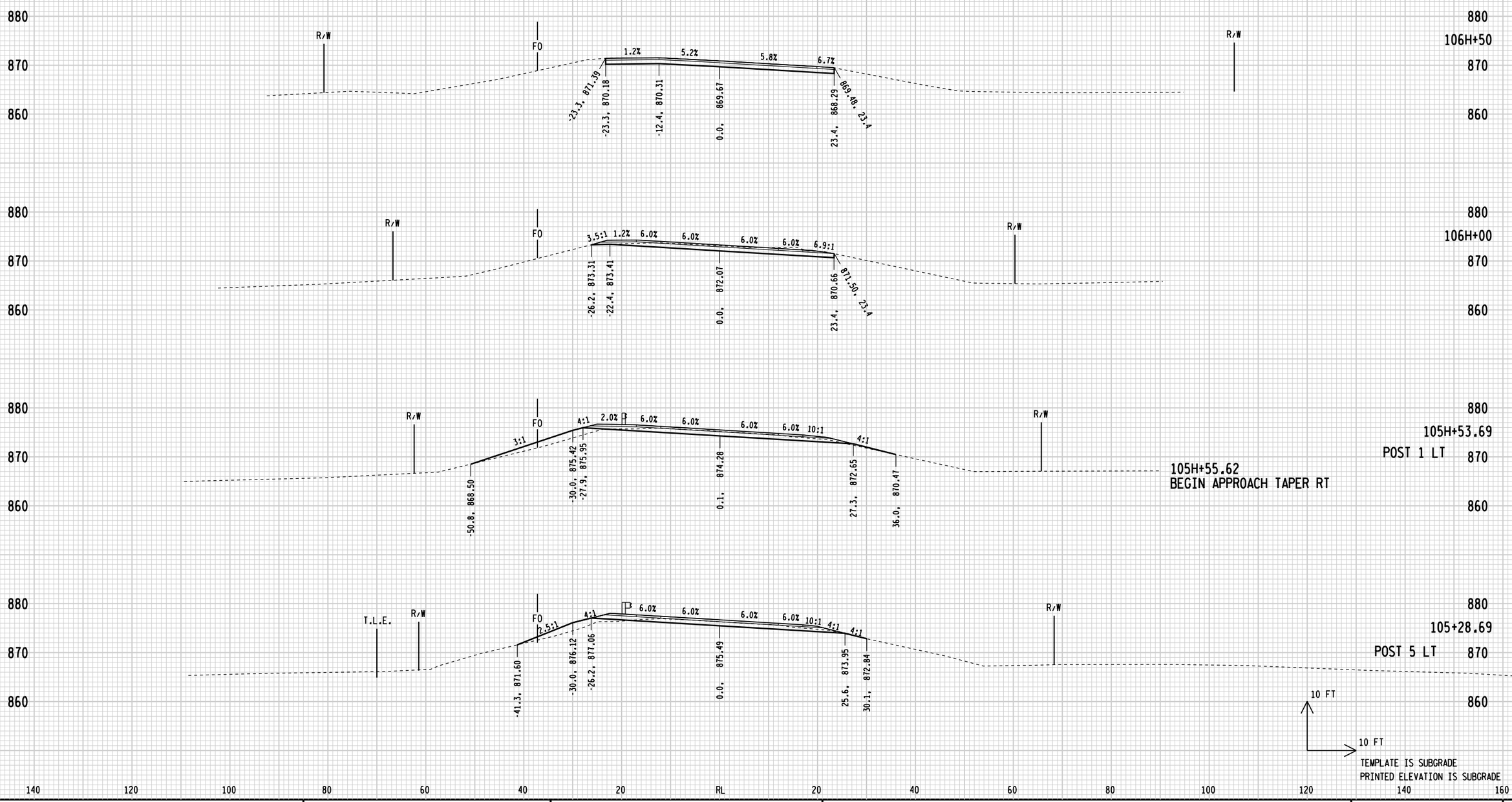
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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH M	SHEET 408	E

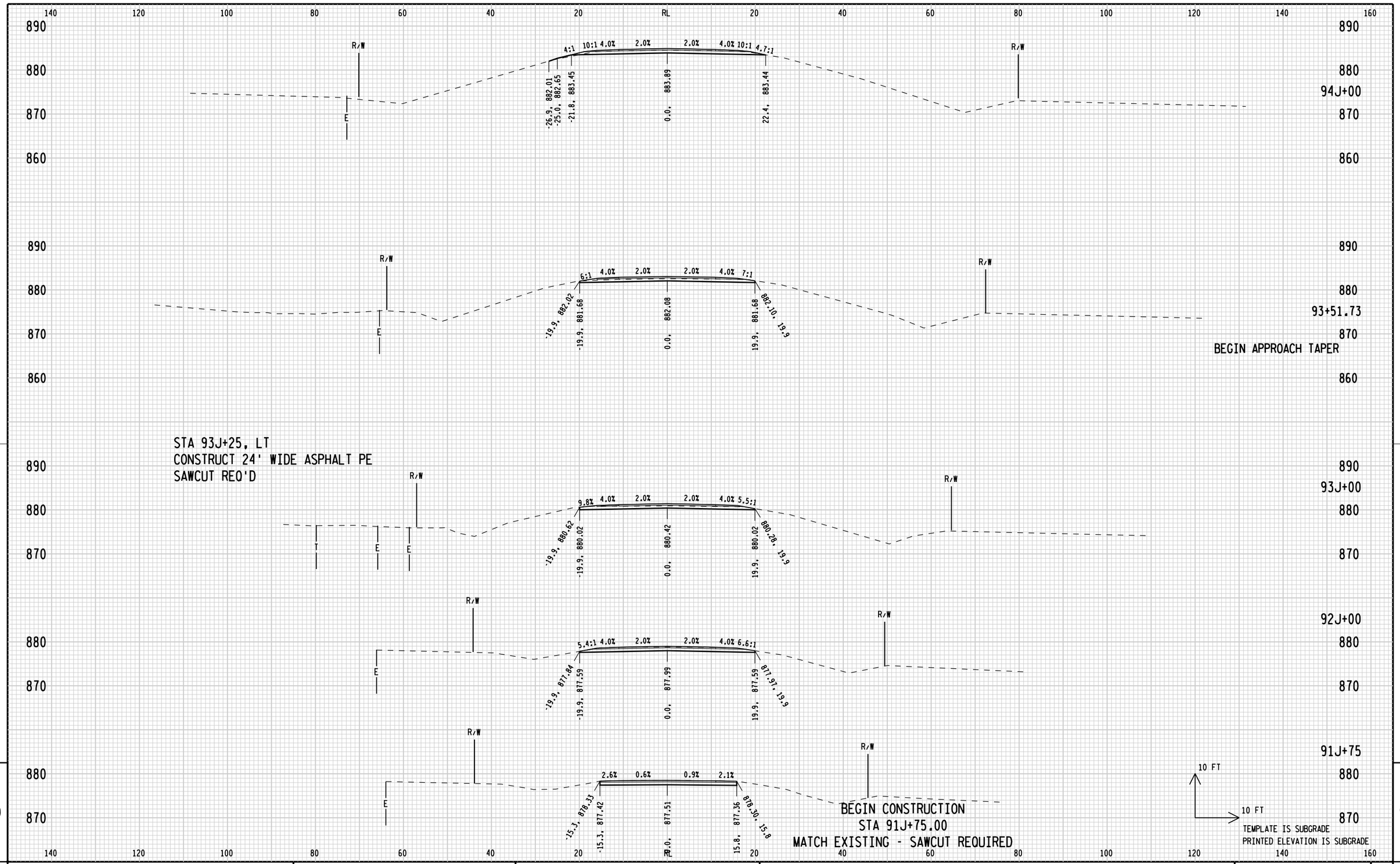
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PLOT TIME: 8:12:09 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

END CONSTRUCTION
STA 106H+50.00
MATCH EXISTING - SAWCUT REQUIRED



STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH M	SHEET 409	E

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WISDOT/CADDS SHEET 21A

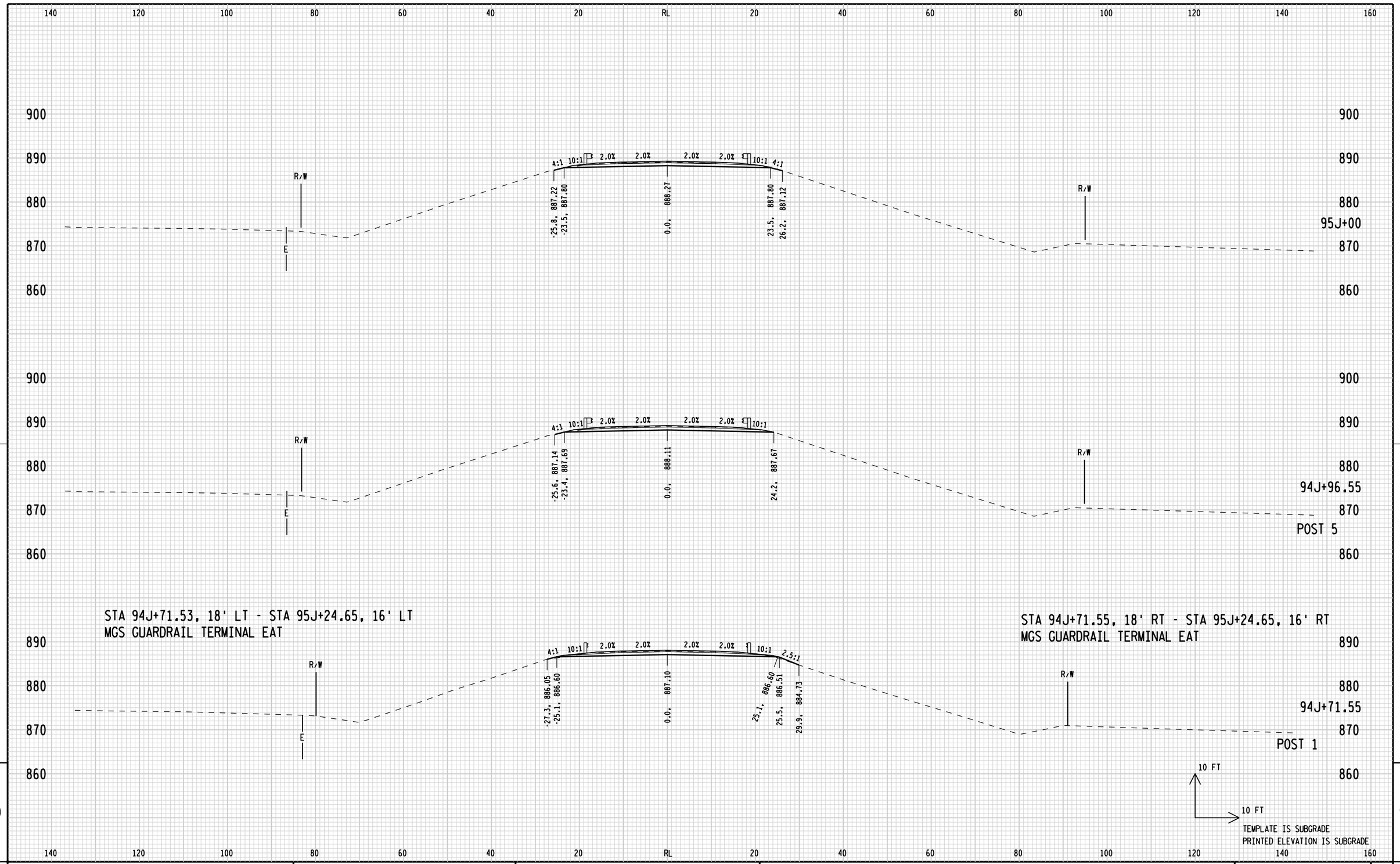


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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: EDGEWOOD COURT	SHEET 410	E

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WISDOT/CADDS SHEET 21A

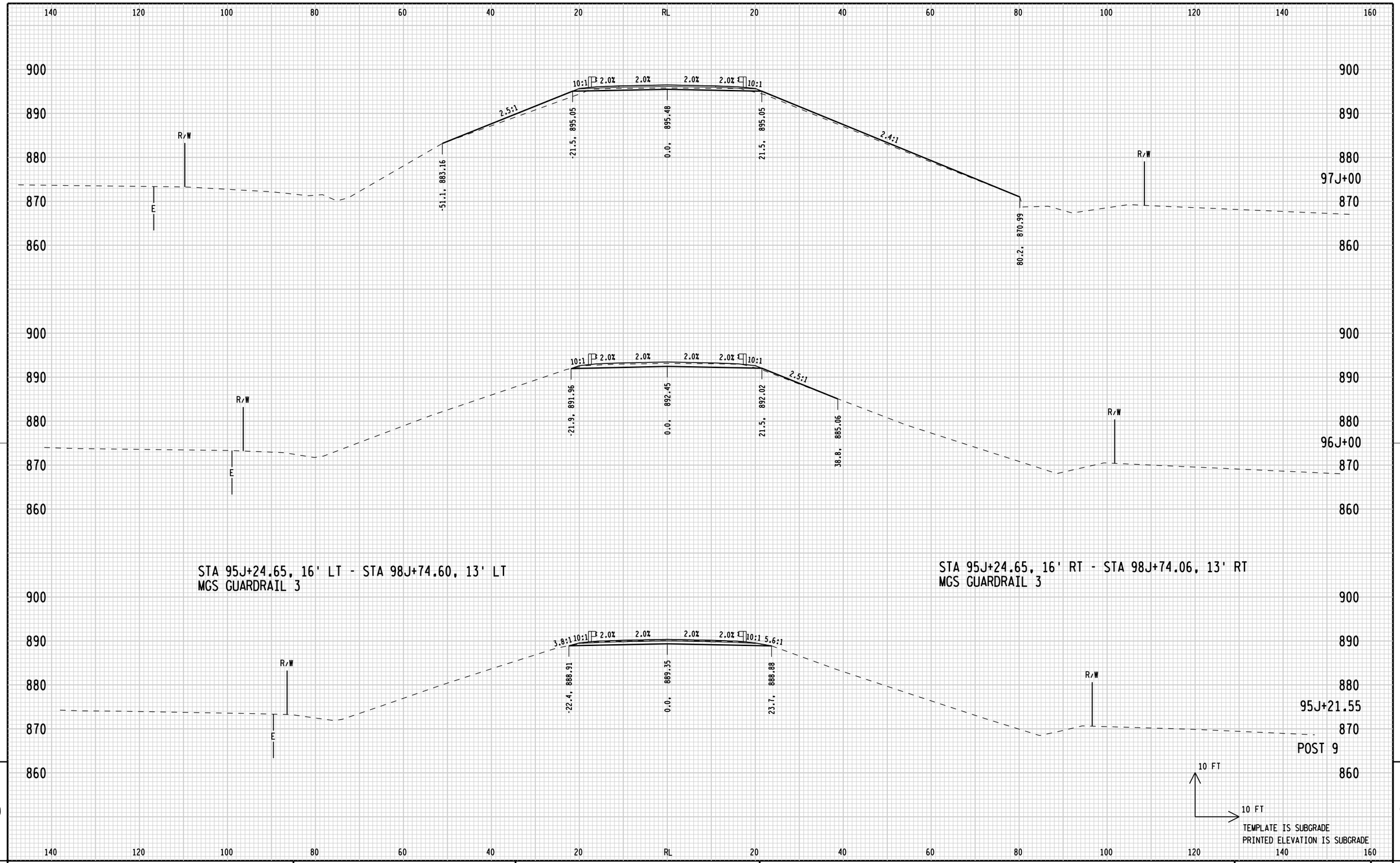


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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: EDGEWOOD COURT	SHEET 411	E

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PLOT TIME: 9:14:03 AM
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WISDOT/CADDS SHEET 21A

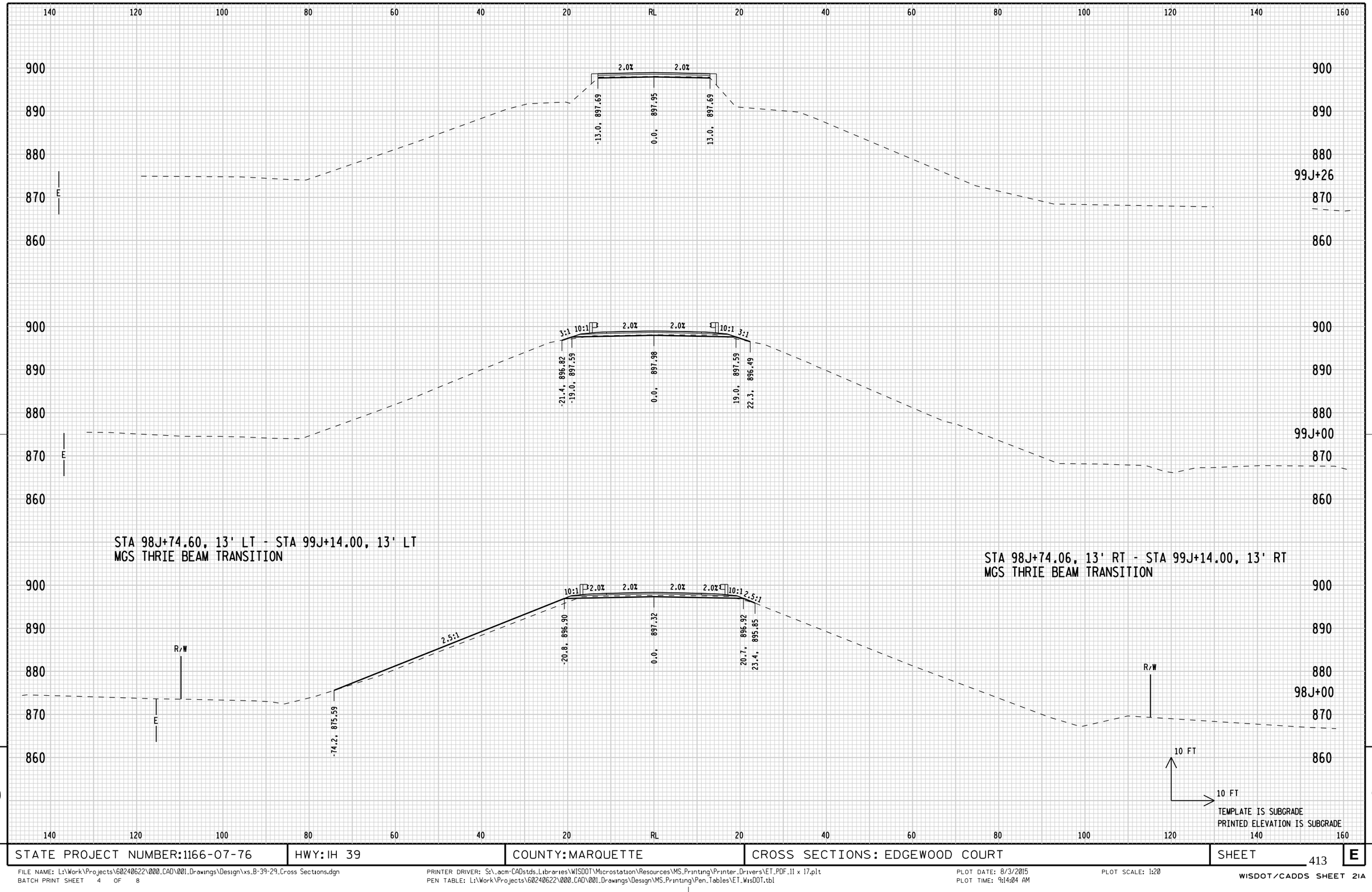


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9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: EDGEWOOD COURT	SHEET 412	E

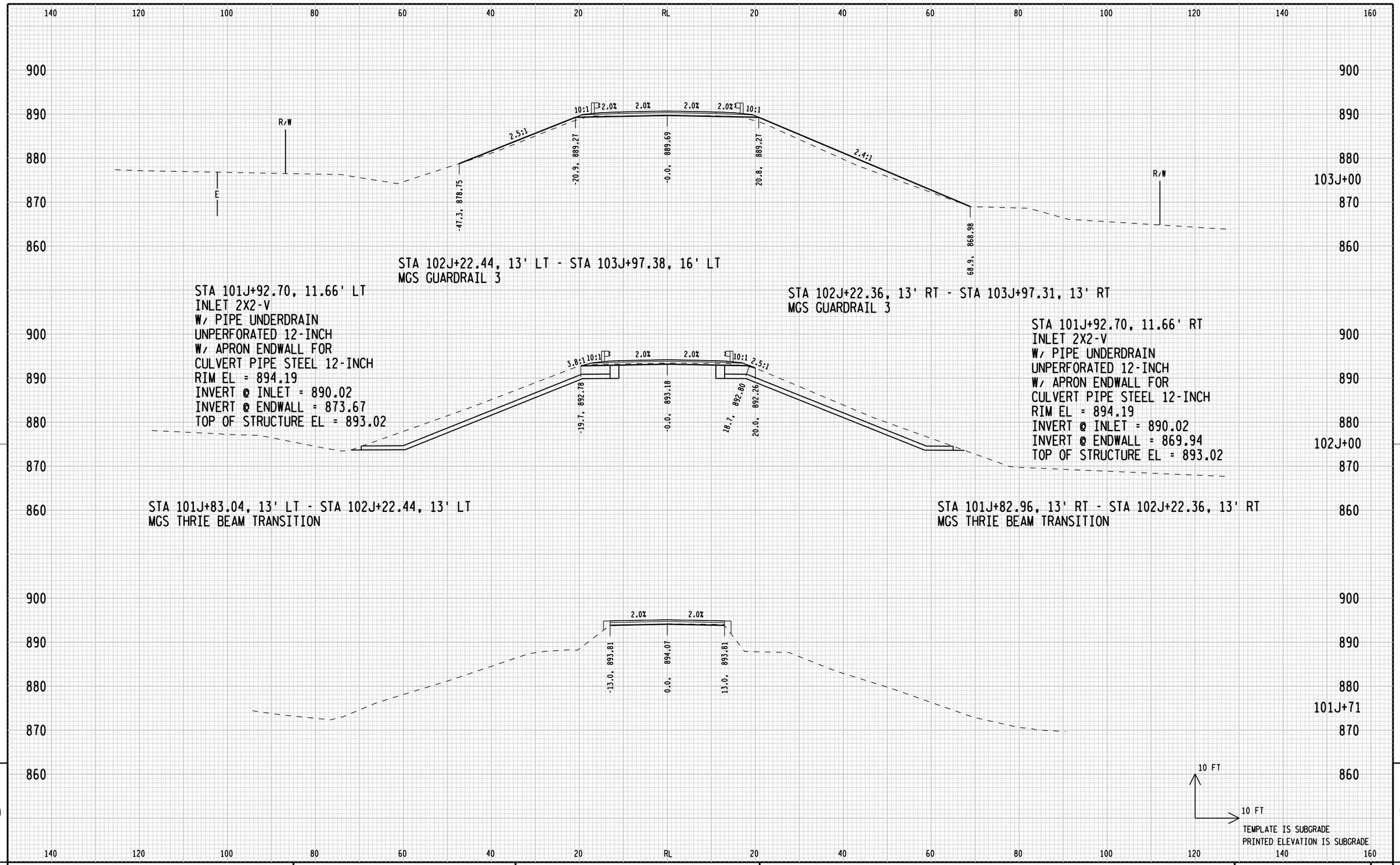
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PLOT TIME: 9:14:04 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: EDGEWOOD COURT	SHEET 413	E

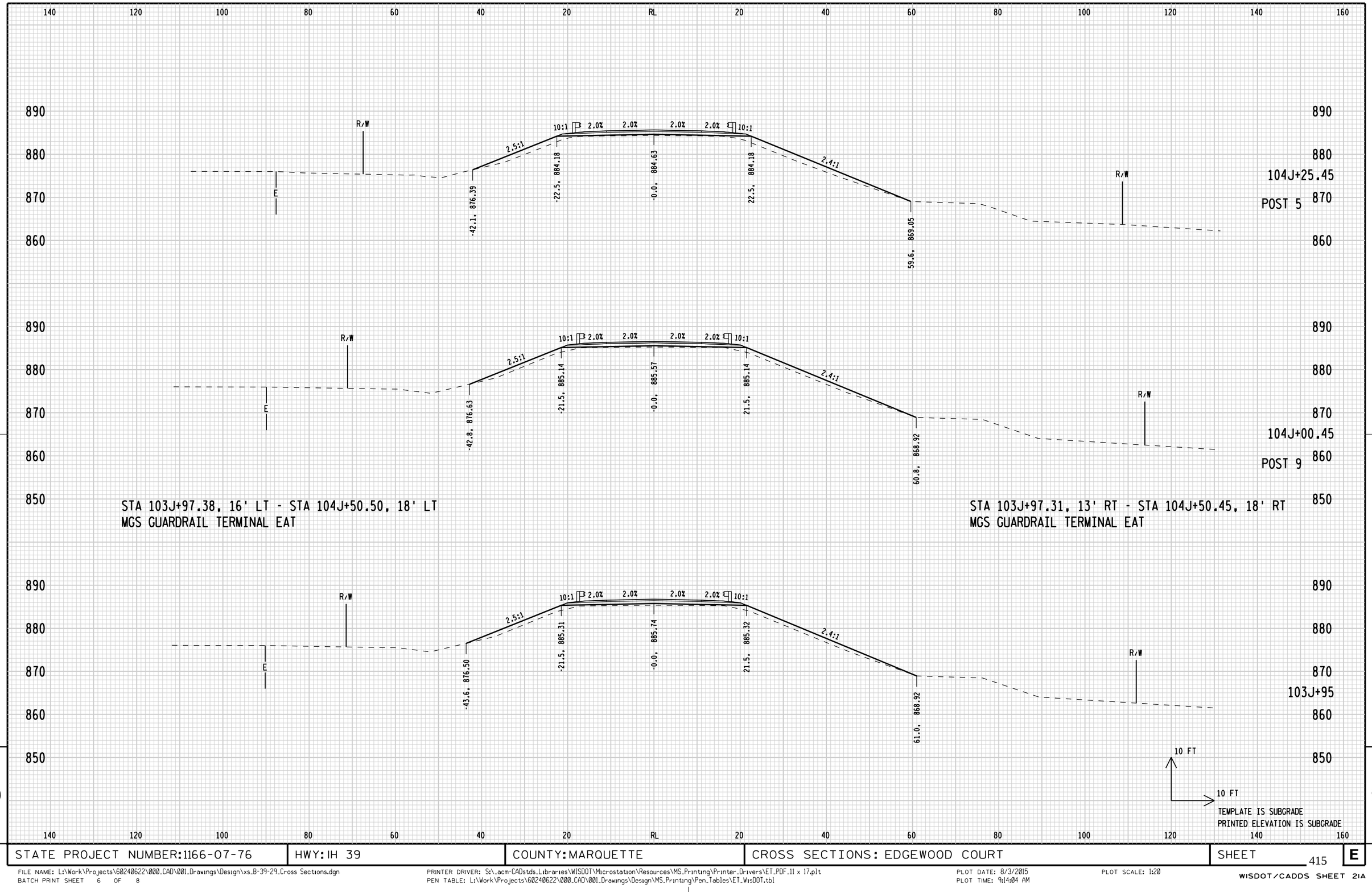
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WISDOT/CADDS SHEET 21A



9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: EDGEWOOD COURT	SHEET 414	E

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WISDOT/CADDS SHEET 21A



9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: EDGEWOOD COURT	SHEET 415	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_B-39-29_Cross Sections.dgn
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PLOT DATE: 8/3/2015
PLOT TIME: 9:14:04 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

890 880 870 860

R/W

4.0% 2.0% 2.0% 4.0%

4:1 4:1

-28.3, 876.94
-19.9, 879.03
-0.0, 879.43
19.9, 879.03
E
28.2, 876.97

105+70.45
BEGIN APPROACH TAPER

890 880 870 860

E R/W

3:1 4:1 4:1 10:1 4.0% 2.0% 2.0% 4.0% 10:1 4:1 4:1 3:1 1.8% 3:1 R/W

-43.4, 874.63
-25.0, 880.75
-22.9, 881.28
-0.0, 881.74
22.9, 881.28
25.0, 880.75
60.4, 868.97
75.3, 868.71
78.6, 867.59

105J+00

890 880 870 860

E R/W

2.5:1 10:1 2.0% 2.0% 2.0% 2.0% 10:1 2.3:1 R/W

-46.4, 874.64
-25.1, 883.15
-0.0, 883.65
25.1, 883.15
57.5, 869.02

104J+50.45
POST 1

10 FT
10 FT

TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

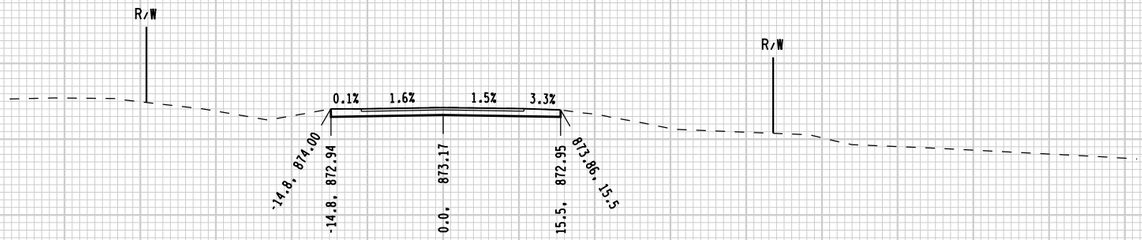
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9 9

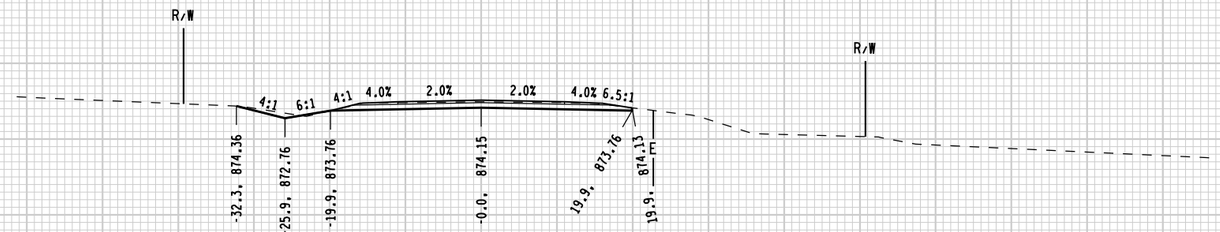
STATE PROJECT NUMBER: 1166-07-76 | HWY: IH 39 | COUNTY: MARQUETTE | CROSS SECTIONS: EDGEWOOD COURT | SHEET E

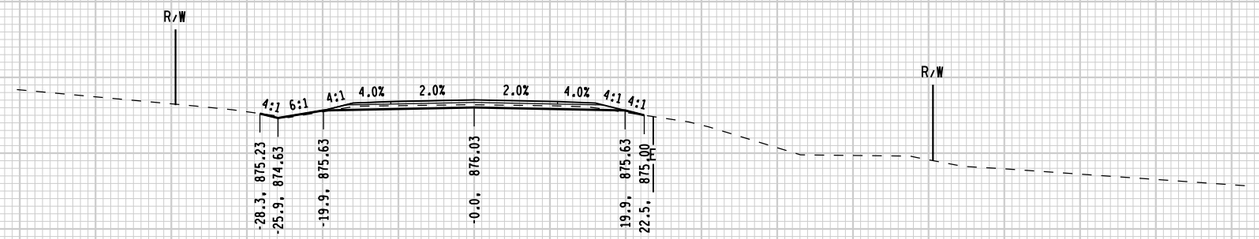
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WISDOT/CADDS SHEET 21A

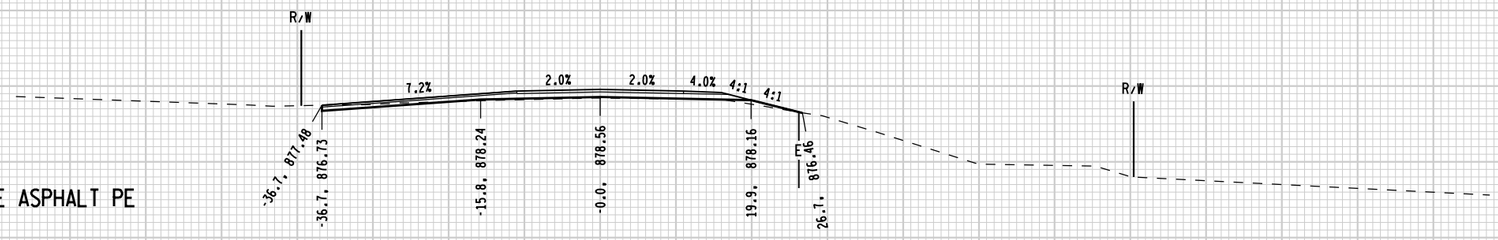
END CONSTRUCTION
STA 108J+75.00
MATCH EXISTING - SAWCUT REQUIRED



STA 108J+37, LT
CONSTRUCT 16' WIDE GRAVEL PE







STA 105J+93, LT
CONSTRUCT 10' WIDE ASPHALT PE
SAWCUT REQ'D

10 FT
10 FT
TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

9

9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: EDGEWOOD COURT	SHEET 417	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_B-39-29_Cross Sections.dgn
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PLOT DATE: 8/3/2015
PLOT TIME: 9:14:05 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

820
810
800
790

R/W

2.0% 4.0% 5.9:1

12.1, 810.66 | 12.1, 809.24 | 22.4, 809.04 | 809.60, 22.4

105SBT+00

820
810
800
790

820
810
800
790

R/W

2.0% 8.2:1

13.2, 808.27 | 13.2, 806.86 | 22.6, 806.67 | 807.51, 22.6

104SBT+00

820
810
800
790

BEGIN CONSTRUCTION
STA 103SBT+56.00
MATCH EXISTING - SAWCUT REQUIRED

820
810
800
790

R/W

103SBT+56

820
810
800
790
780

10 FT

10 FT

TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 418	E

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

830 820 810 800

R/W

2.0% 4.0% 4:1

5.2, 818.49 | 5.2, 817.08 | 22.9, 816.72 | 31.0, 814.70

108SBT+00

820 810 800 790

R/W

2.0% 4.0% 4:1

7.5, 815.65 | 7.5, 814.24 | 22.9, 813.93 | 27.3, 812.84

107SBT+00

820 810 800 790

R/W

2.0% 4.0% 4.1:1

10.3, 812.97 | 10.3, 811.55 | 23.4, 811.29

106SBT+00

820 810 800 790

10 FT

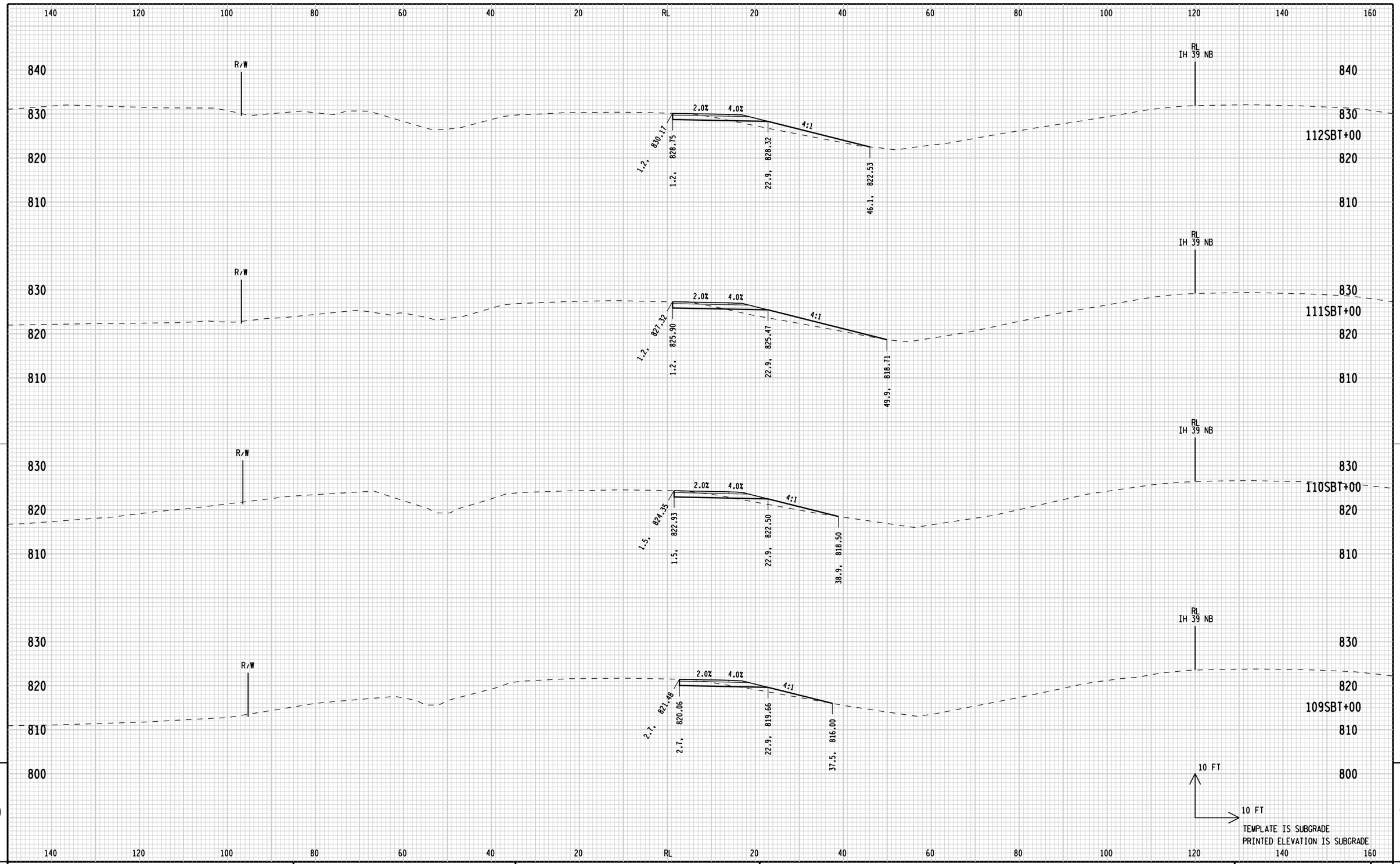
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TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 419 E



9

9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 420	E

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PLOT TIME: 10:41:50 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

R/W

850
840
830
820

2.0% 4.0% 4:1

1.2, 836.02
1.2, 834.61
22.9, 836.87
37.5, 833.23

RL
IH 39 NB

850
840
115SBT+00
830
820

R/W

850
840
830
820

2.0% 4.0% 4:1

1.2, 836.02
1.2, 834.61
22.9, 834.17
32.4, 831.81

RL
IH 39 NB

850
840
114SBT+00
830
820

R/W

840
830
820

2.0% 4.0% 4:1

1.2, 833.00
1.2, 831.58
22.9, 831.15
43.6, 825.97

RL
IH 39 NB

840
113SBT+00
830
820

10 FT
10 FT

TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 421 E

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

870 860 850 840 830

RL
IH 39 NB

118SBT+00

2.0% 4.0% 4:1

-1.1, 845.99
-1.1, 844.58
0.0, 844.56
22.9, 844.10
34.8, 841.12

860 850 840 830

RL
IH 39 NB

117SBT+00

2.0% 4.0% 4:1

1.2, 843.60
1.2, 842.18
22.9, 841.75
34.8, 838.77

R/W

860 850 840 830

RL
IH 39 NB

116SBT+00

2.0% 4.0% 4:1

1.2, 841.23
1.2, 839.81
22.9, 839.37
36.0, 836.09

820

10 FT
10 FT

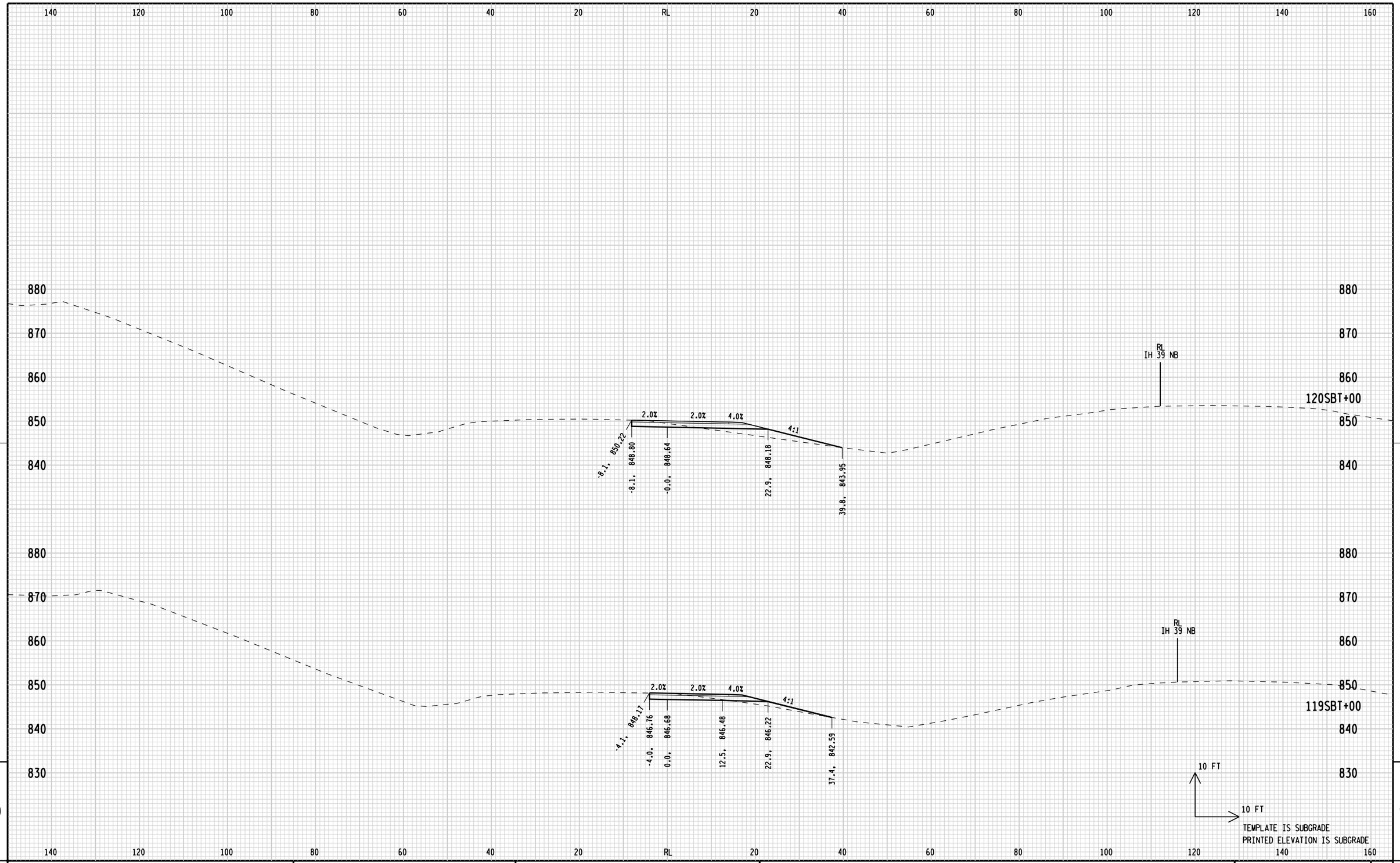
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PRINTED ELEVATION IS SUBGRADE

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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 422 E

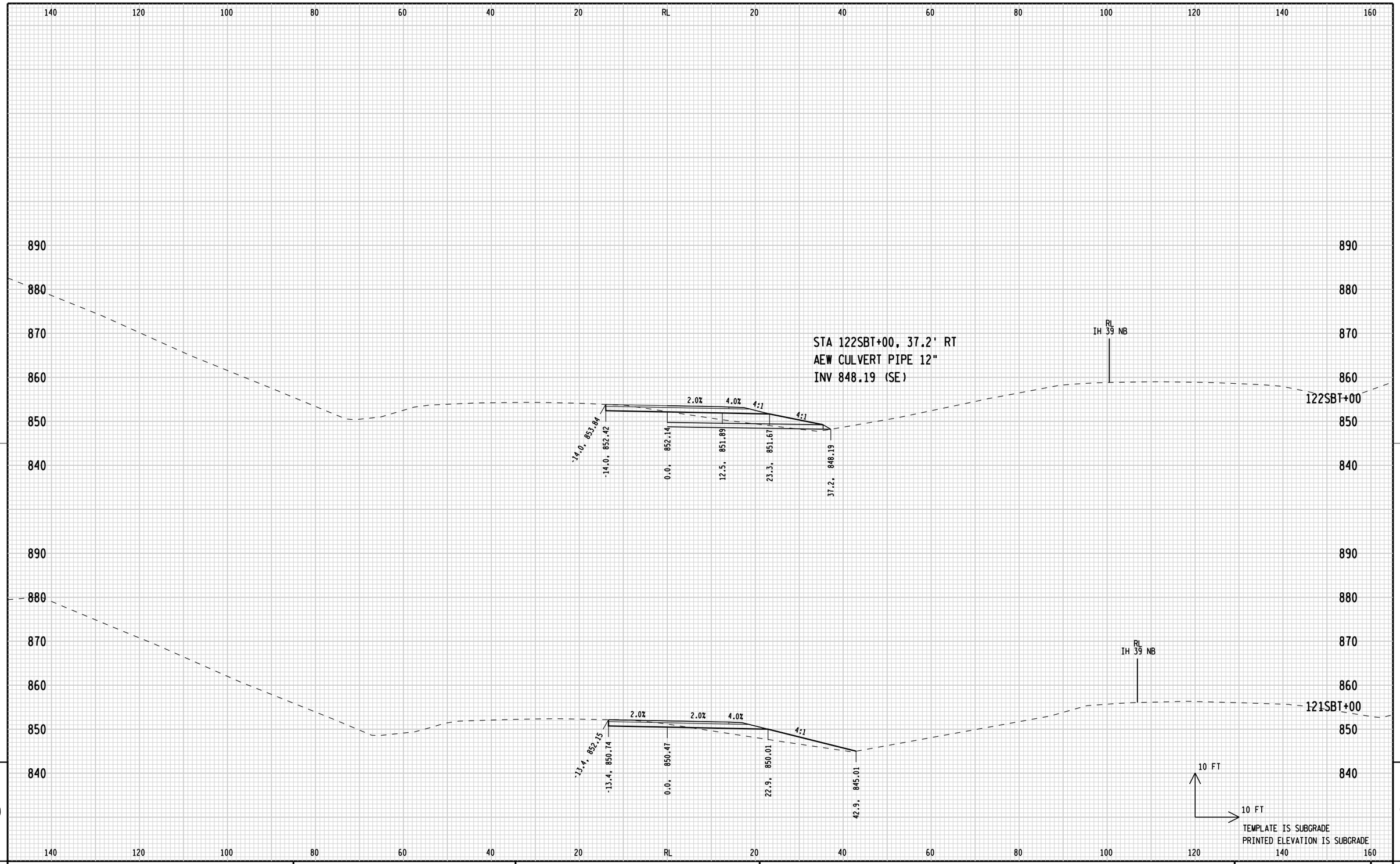
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WISDOT/CADDS SHEET 21A



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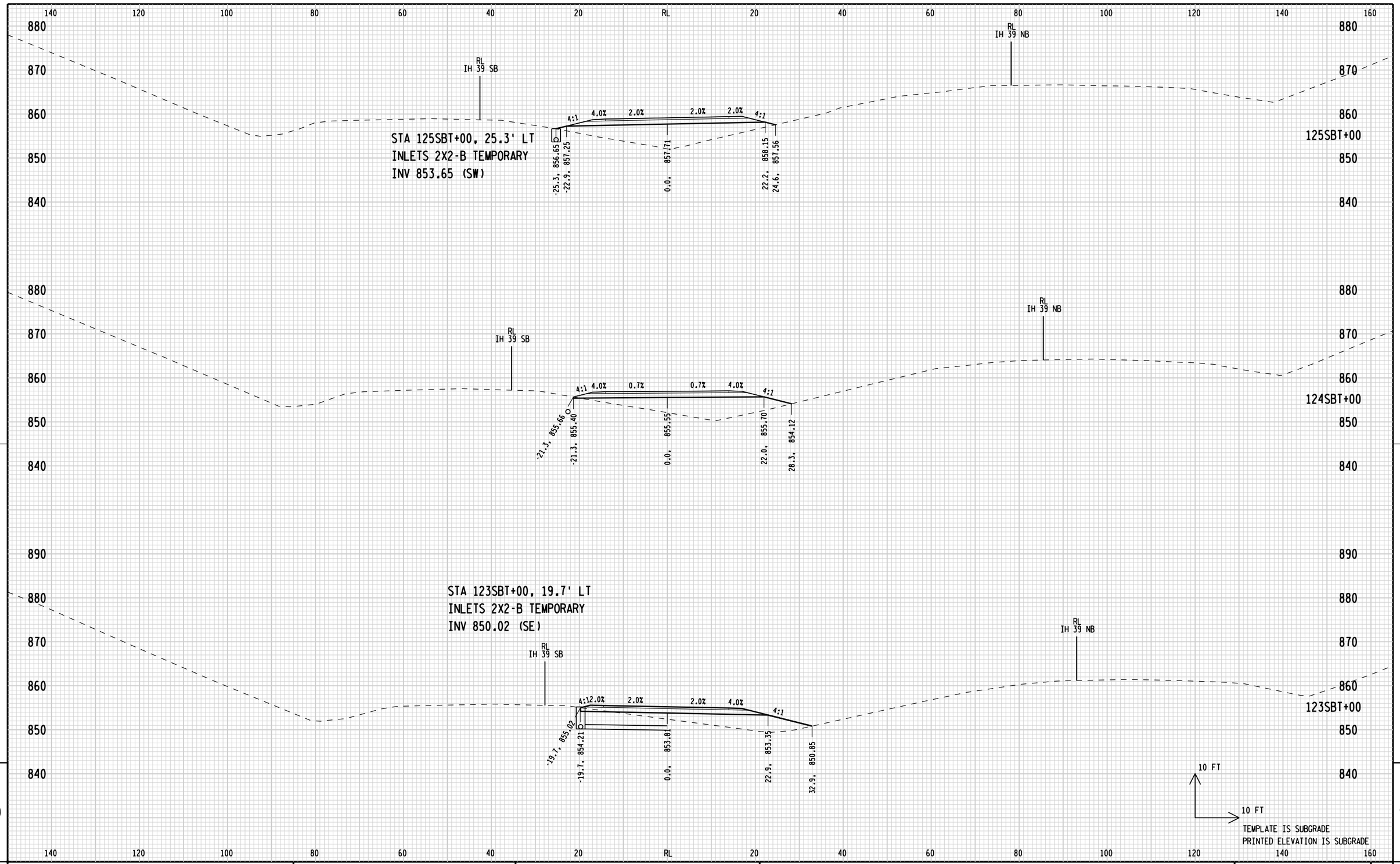
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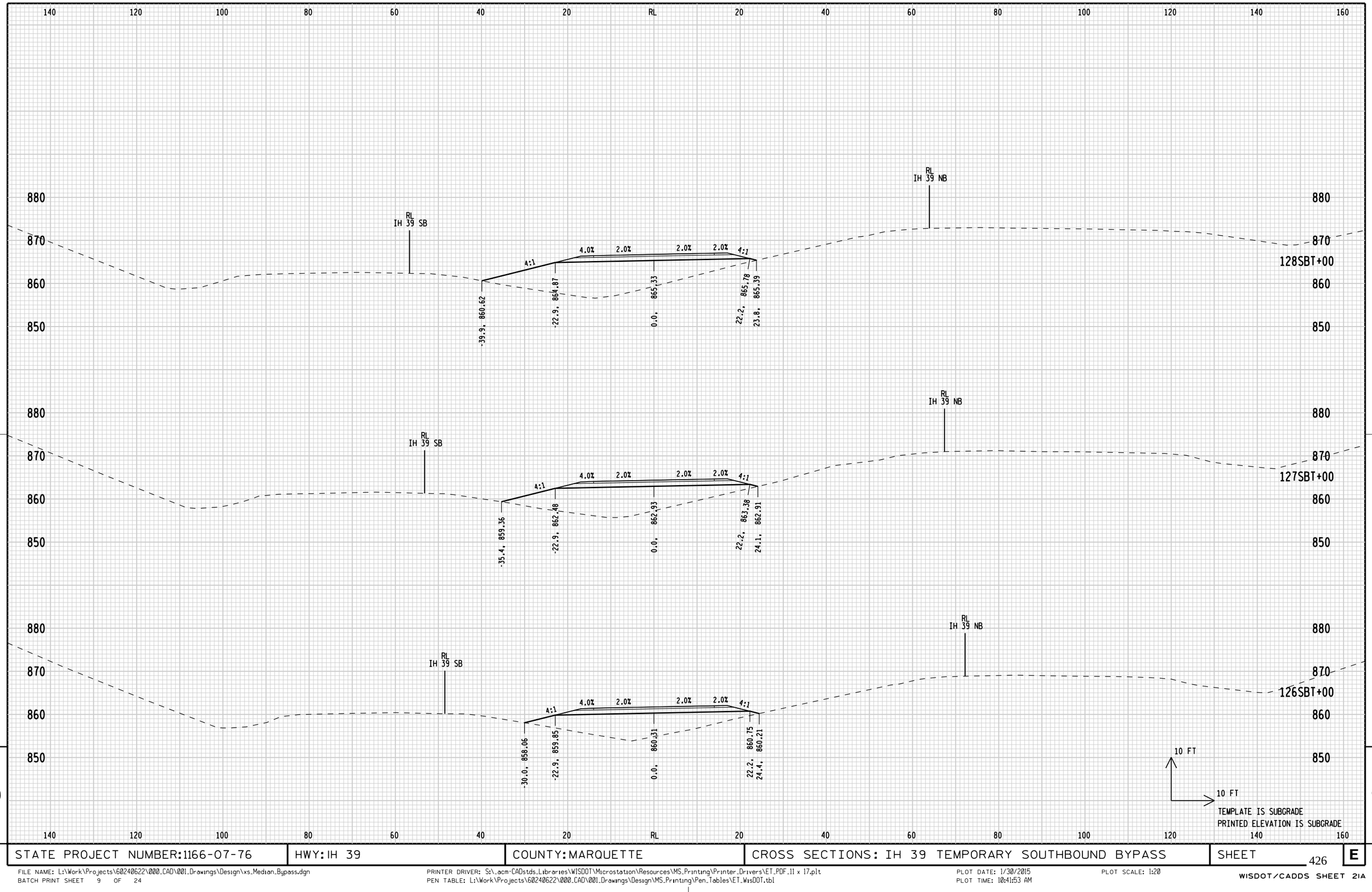
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WISDOT/CADDS SHEET 21A



STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 425	E

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WISDOT/CADDS SHEET 21A

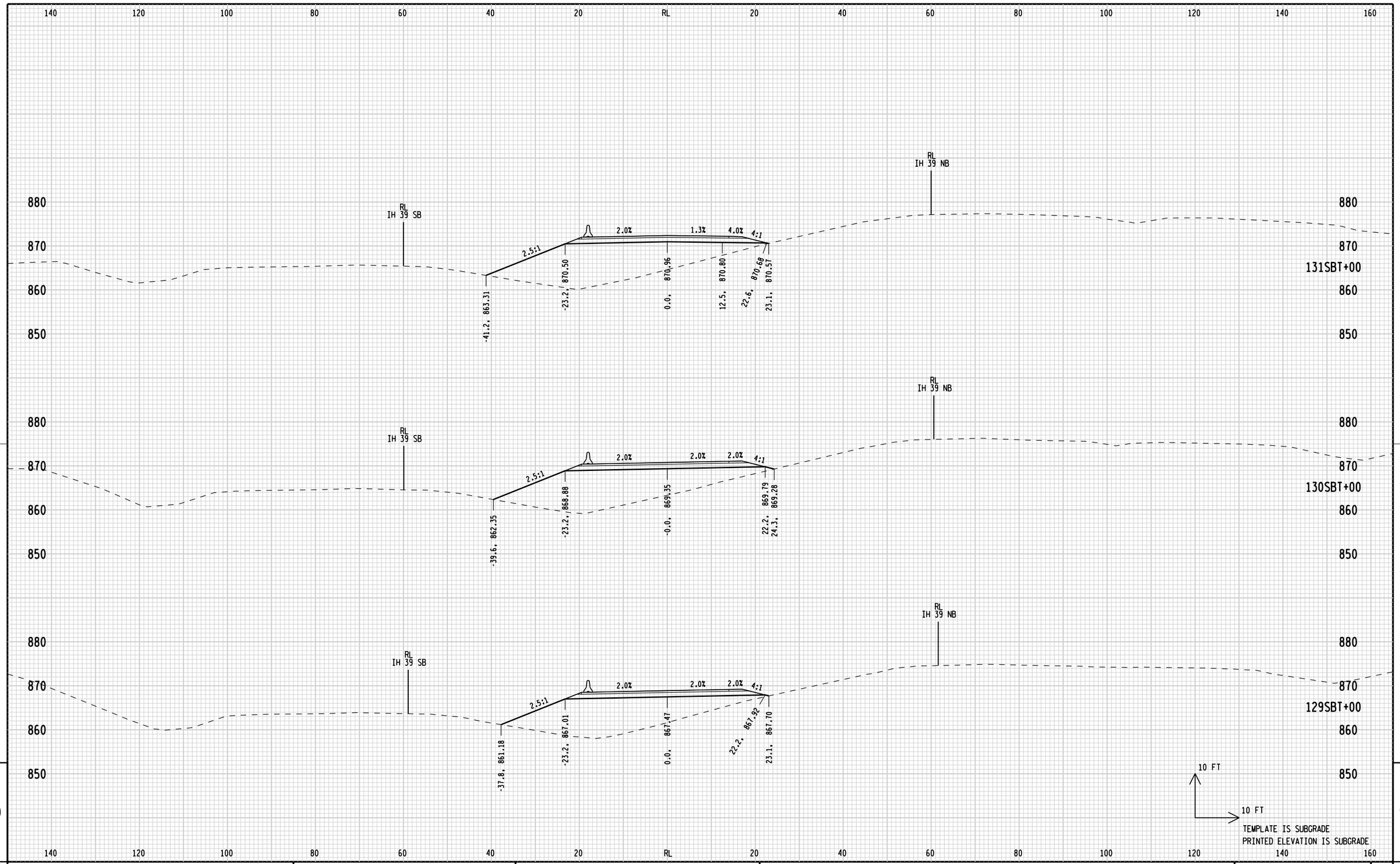


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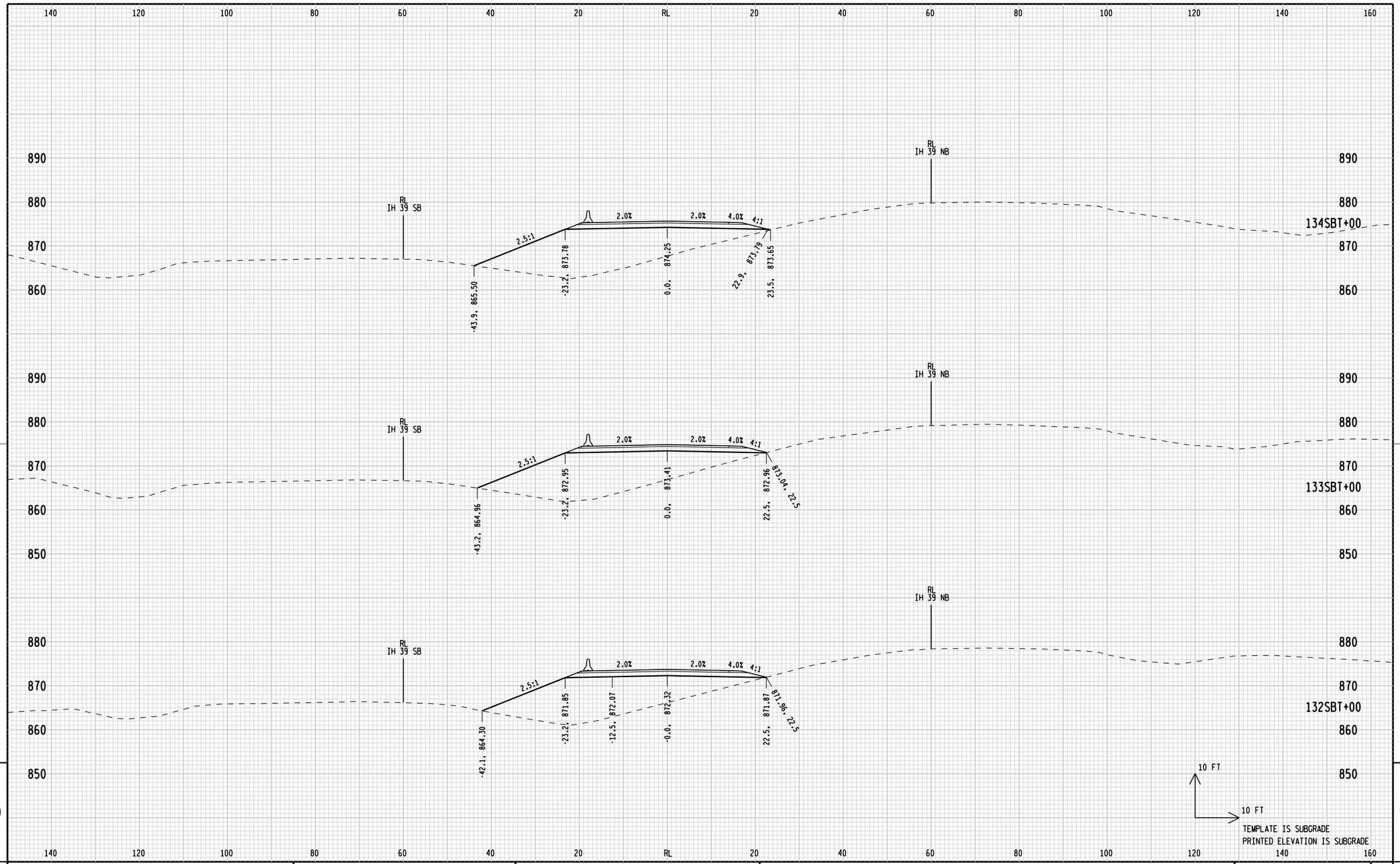
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WISDOT/CADDS SHEET 21A



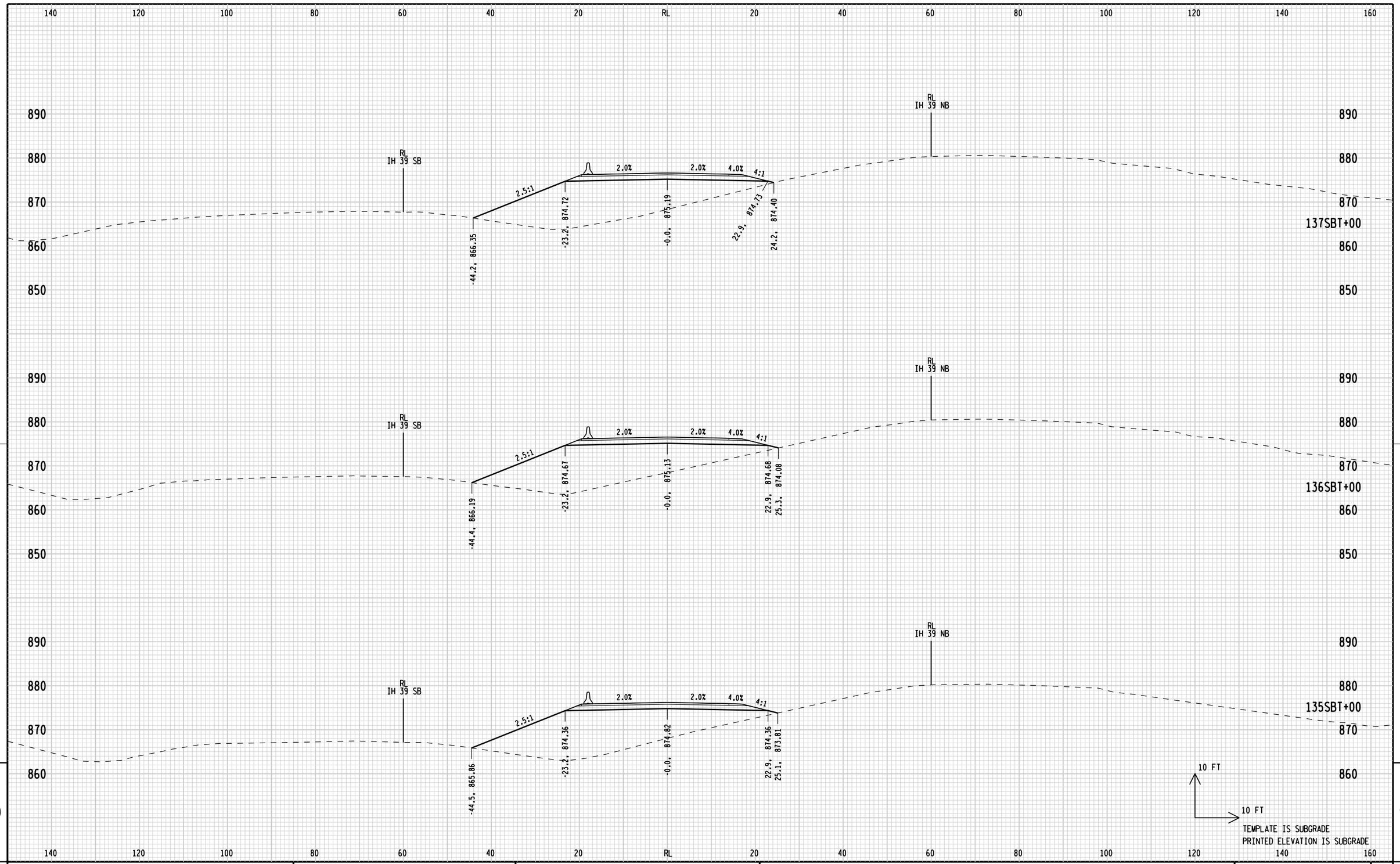
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WISDOT/CADDS SHEET 21A



STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 428	E

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WISDOT/CADDS SHEET 21A

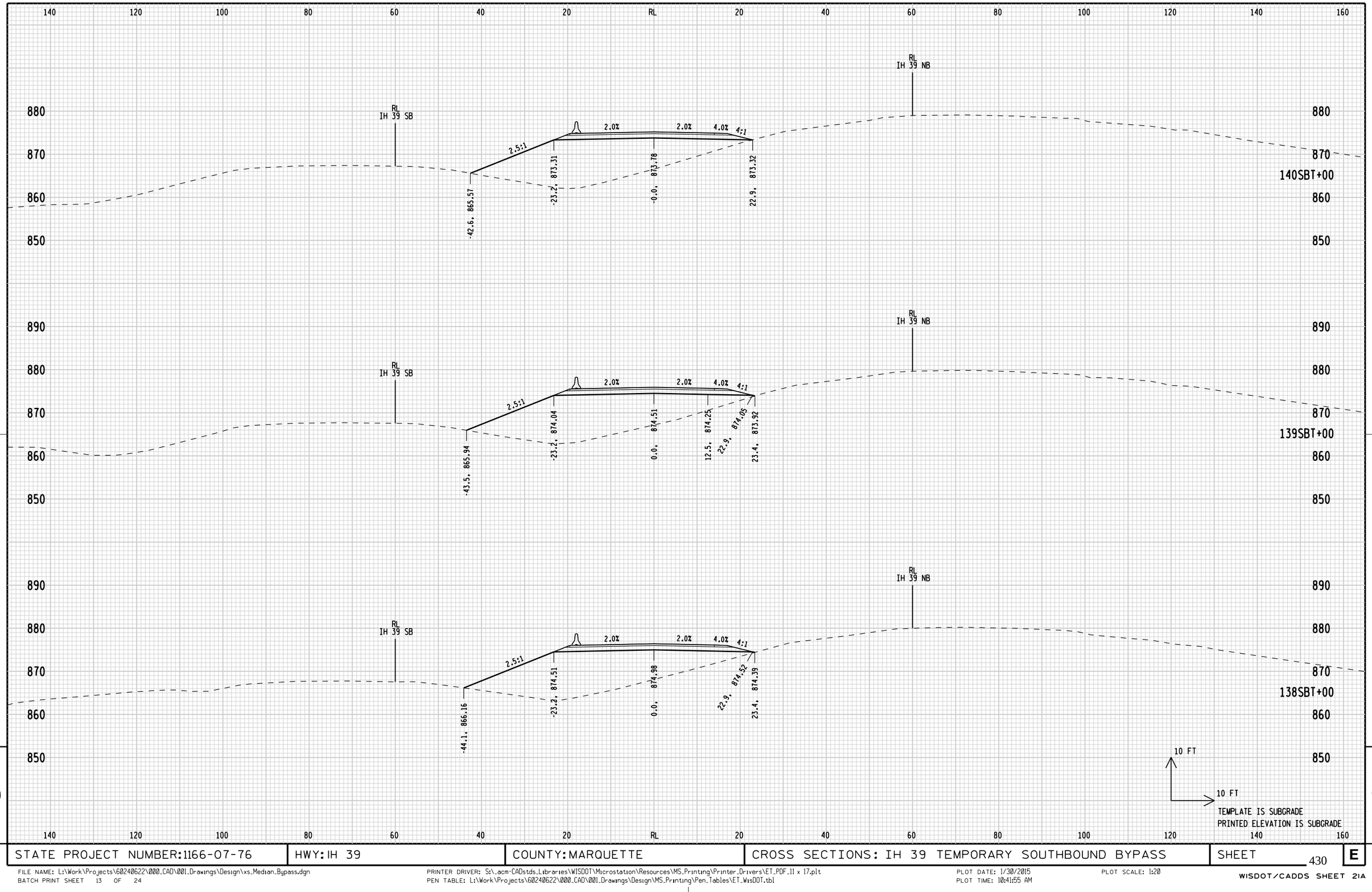


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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 429 E

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WISDOT/CADDS SHEET 21A

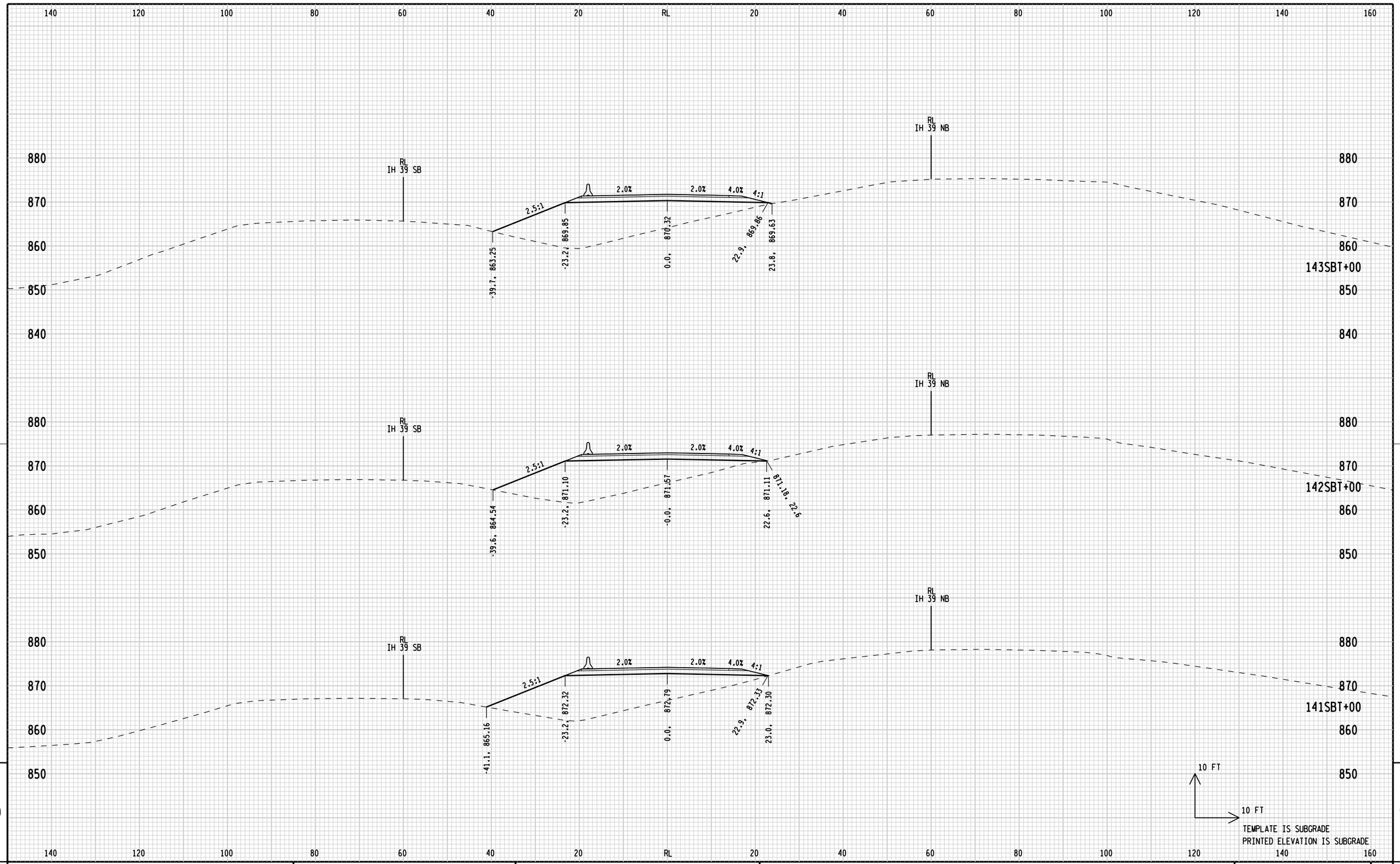


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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 430	E

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WISDOT/CADDS SHEET 21A



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9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 431	E

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PLOT TIME: 10:41:55 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

880 870 860 850 840

RL IH 39 SB

FO

RL IH 39 NB

E

144SBT+87

880 870 860 850 840

RL IH 39 NB

RL IH 39 SB

FO

144SBT+00

FO

880 870 860 850 840

10 FT

10 FT

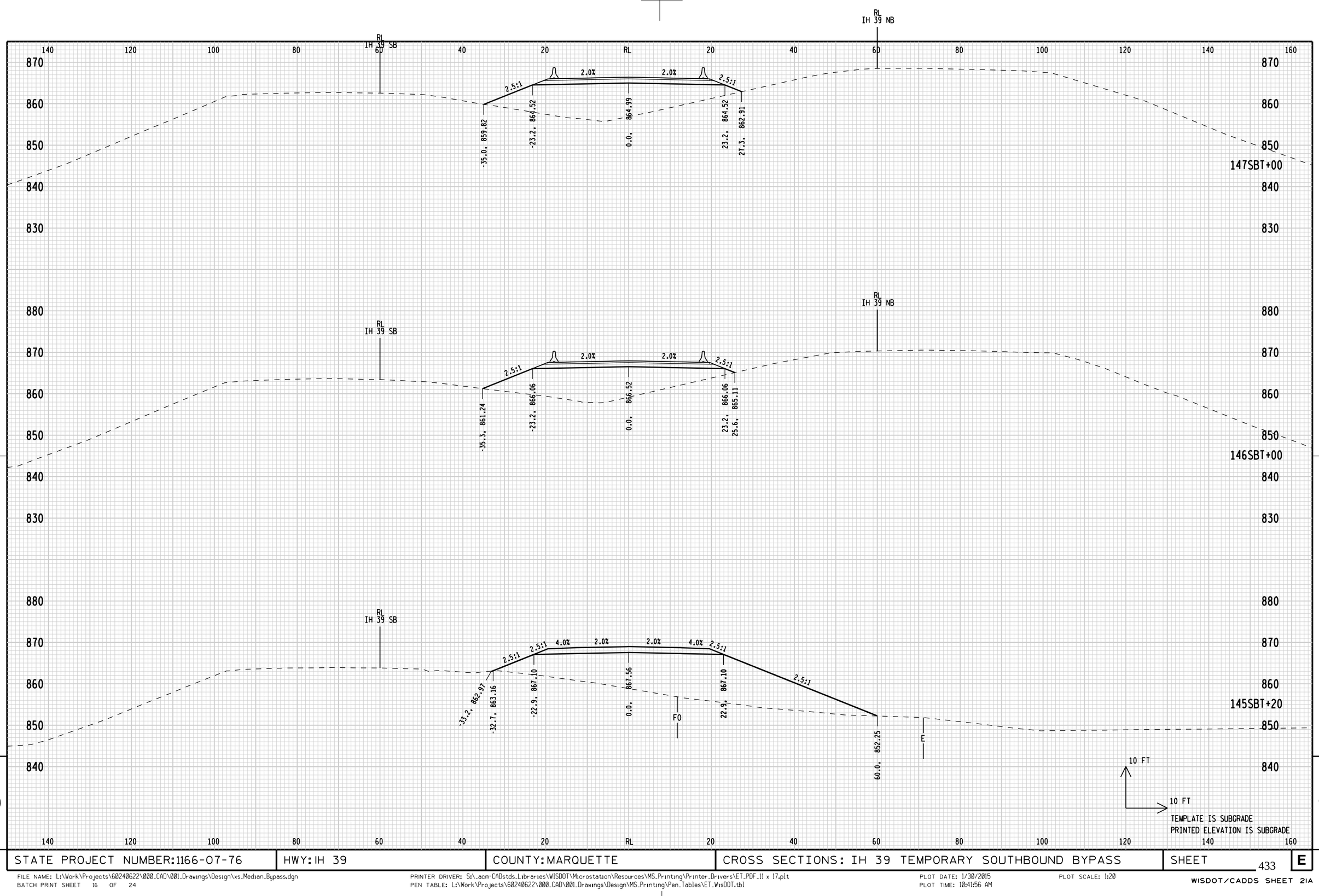
TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 432	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_Median_Bypass.dgn
BATCH PRINT SHEET 15 OF 24
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:41:56 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

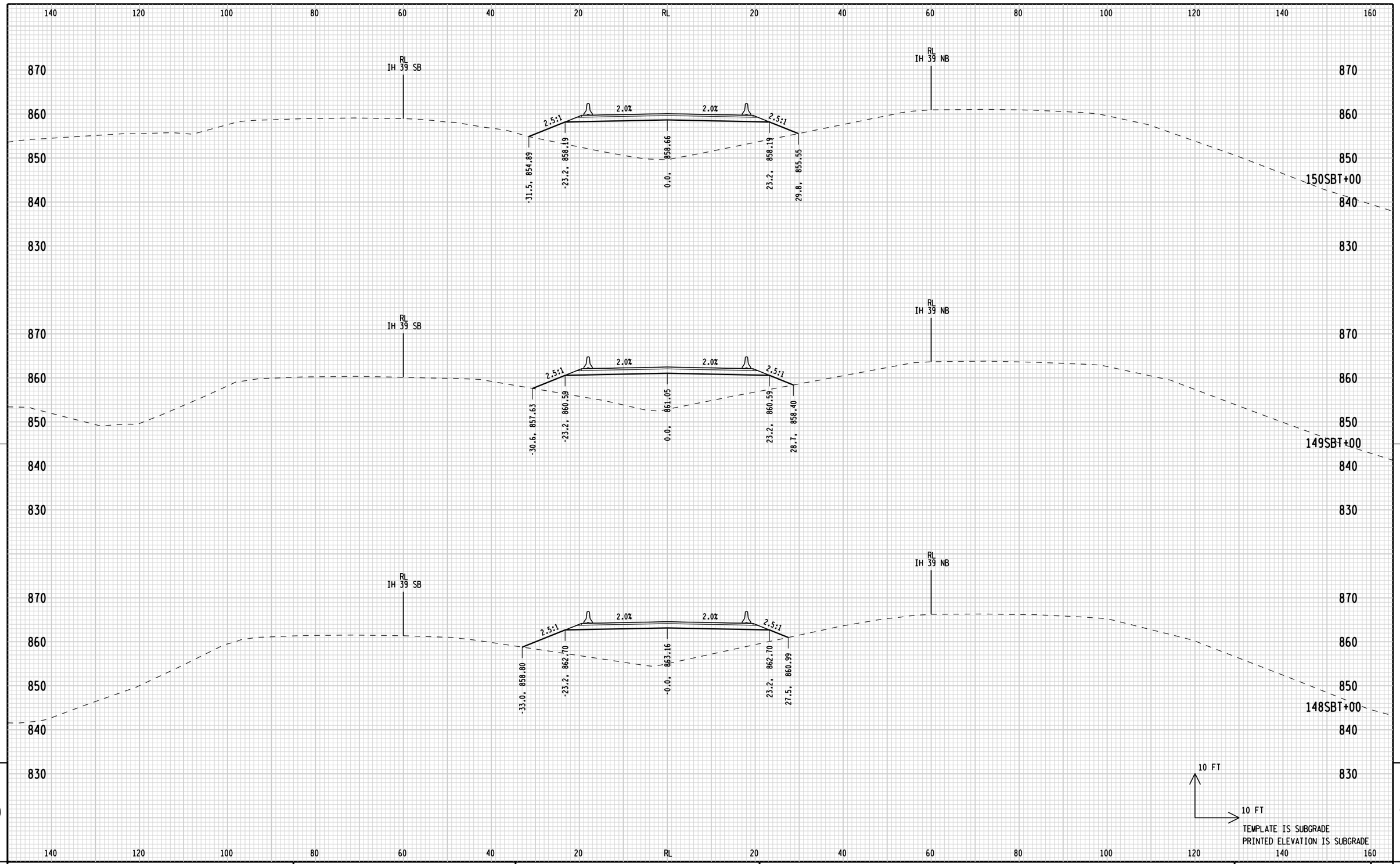


9

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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 433	E

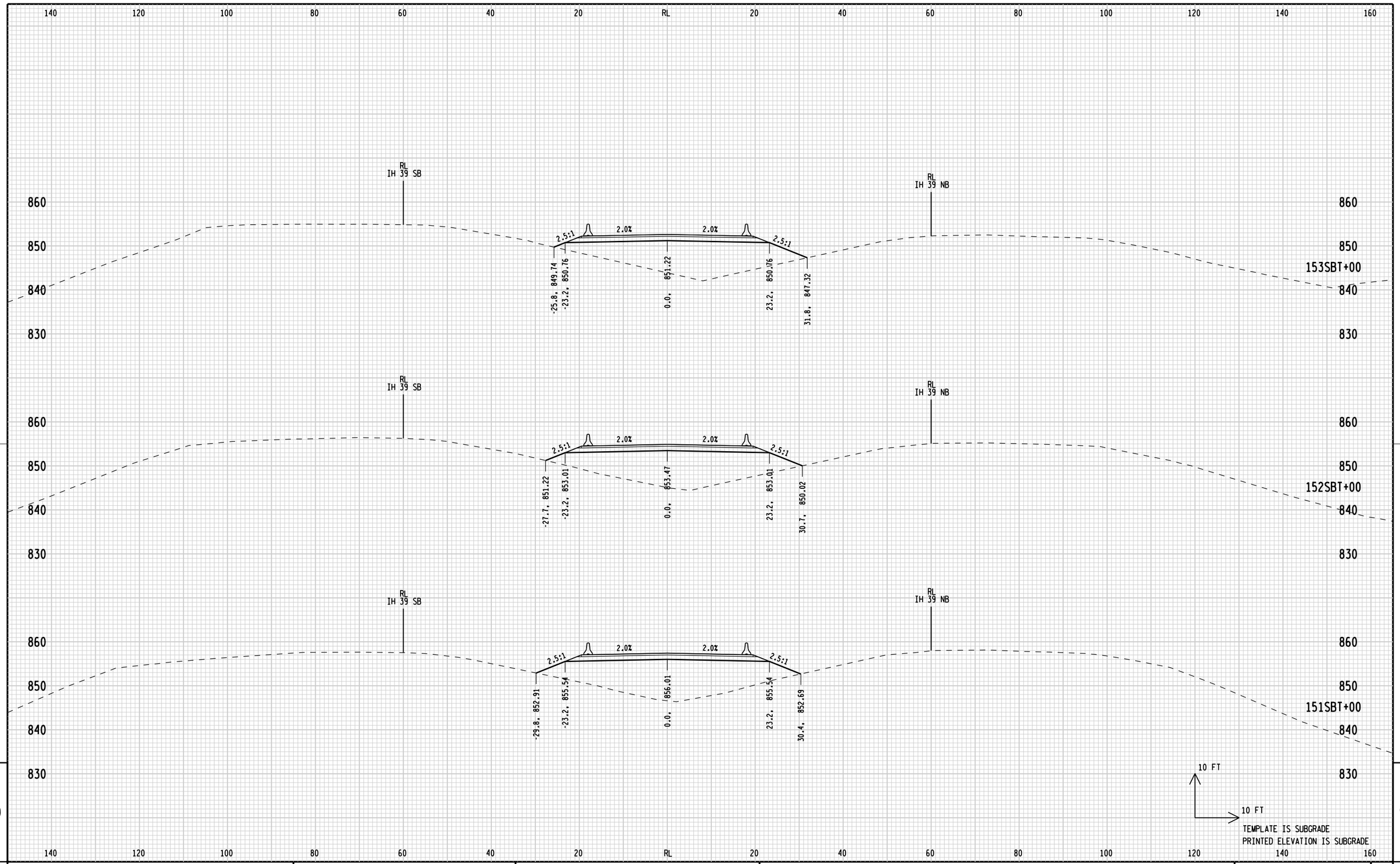
FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_Median_Bypass.dgn
BATCH PRINT SHEET 16 OF 24
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:41:56 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 434	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_Median_Bypass.dgn
BATCH PRINT SHEET 17 OF 24
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:41:57 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9

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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 435	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_Median_Bypass.dgn
BATCH PRINT SHEET 18 OF 24
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:41:57 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

RL
IH 39 SB

STA 156SBT+00, 24.6' LT
INLETS 2X2-B TEMPORARY
INV 842.20 (N)

RL
IH 39 NB

860
850
840
830
820

2.5:1 2.0% 0.3% 0.3% 2.5:1 2.5:1

-24.6, 845.20
-23.2, 845.74
0.0, 846.21
23.1, 846.13
34.5, 841.55

156SBT+00

RL
IH 39 SB

RL
IH 39 NB

860
850
840
830

2.5:1 2.0% 2.0% 2.5:1

-26.4, 845.87
-23.2, 847.12
-0.0, 847.59
23.2, 847.12
33.12, 843.14

155SBT+00

RL
IH 39 SB

RL
IH 39 NB

860
850
840
830

2.5:1 2.0% 2.0% 2.5:1

-25.4, 847.94
-23.2, 848.80
0.0, 849.26
23.2, 848.80
32.6, 845.04

154SBT+00

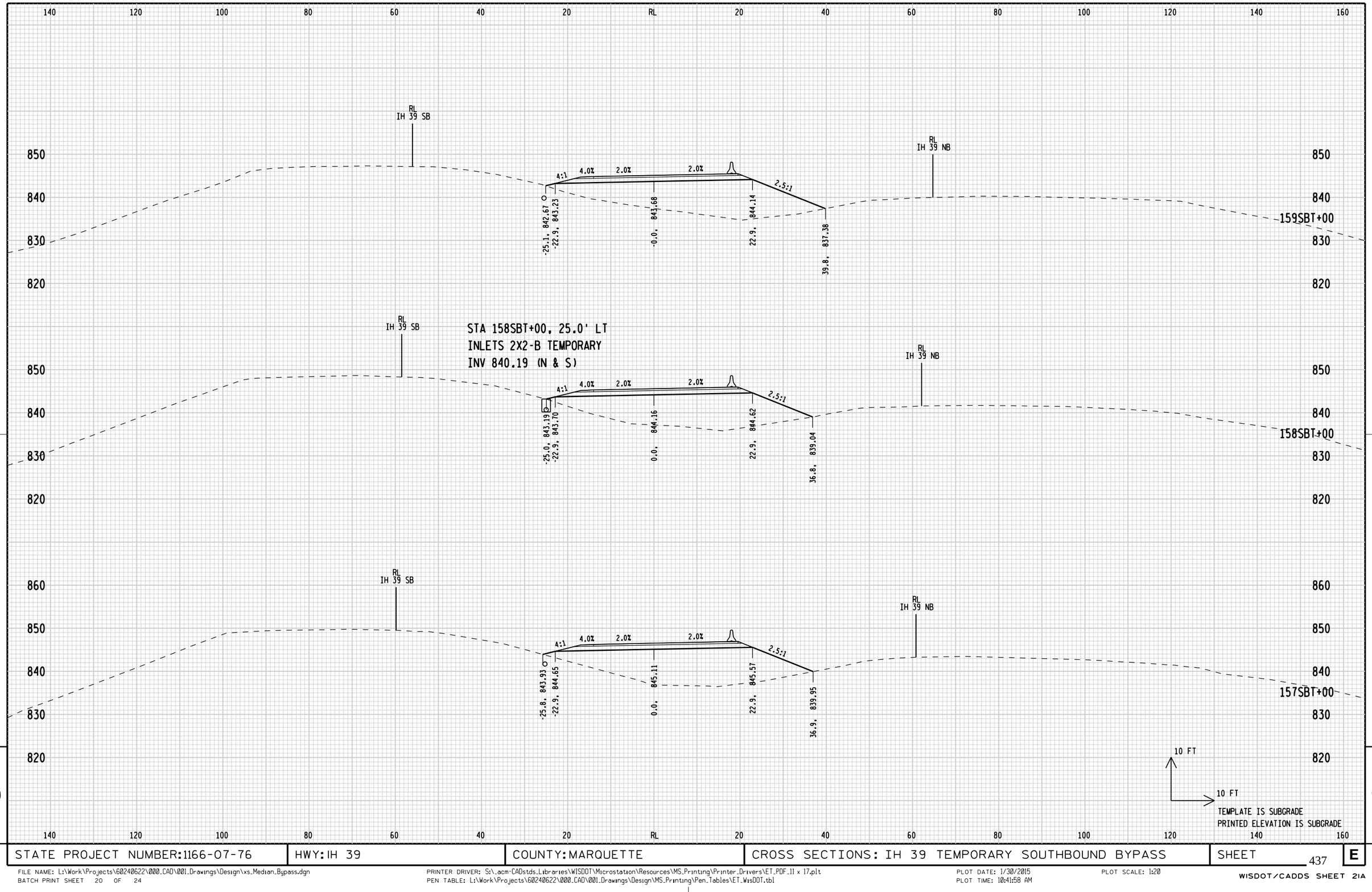
10 FT
10 FT
TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

9 9

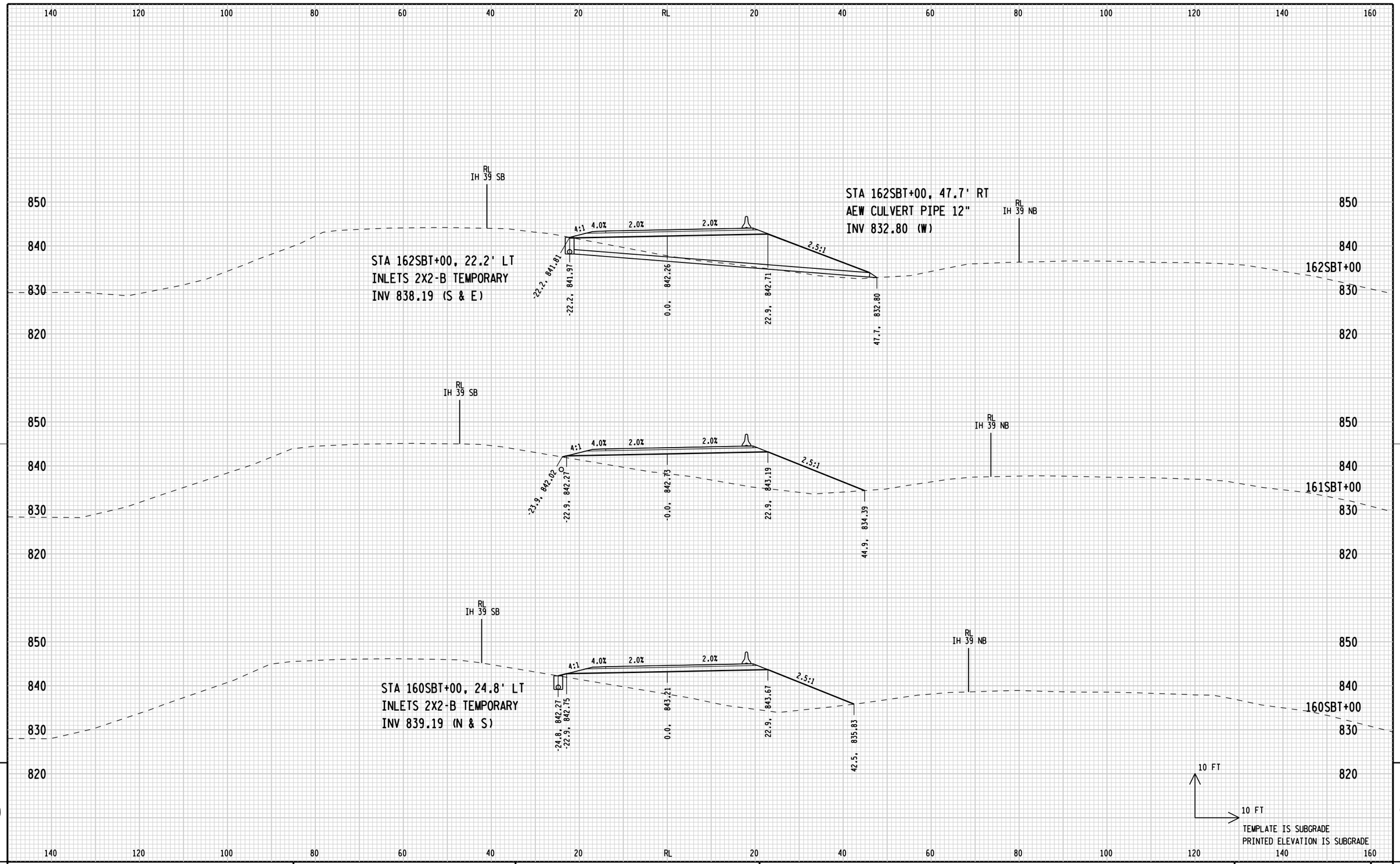
STATE PROJECT NUMBER:1166-07-76	HWY:IH 39	COUNTY:MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 436 E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_Median_Bypass.dgn
BATCH PRINT SHEET 19 OF 24
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:41:58 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 437 E

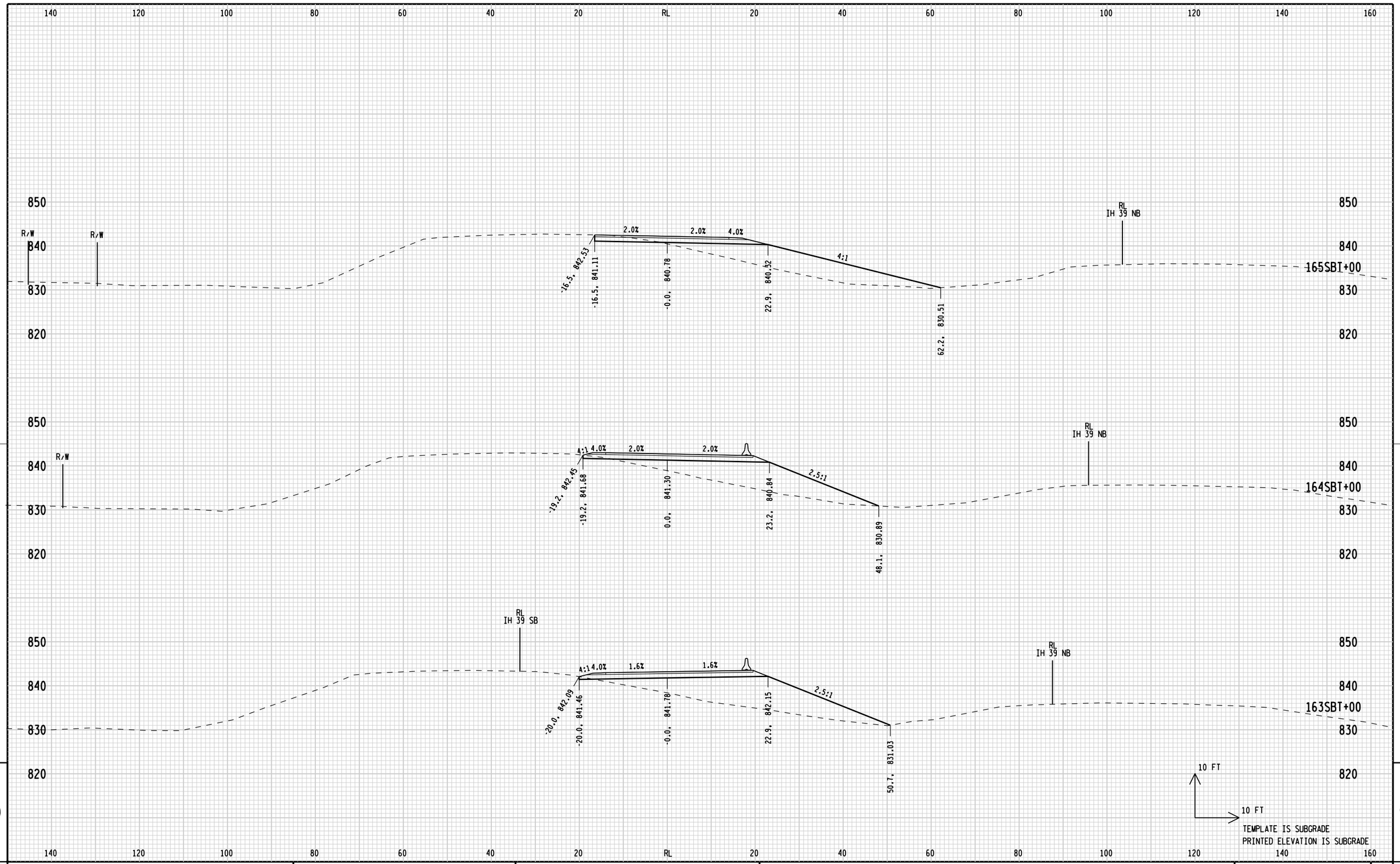
FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_Median_Bypass.dgn
BATCH PRINT SHEET 20 OF 24
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:41:58 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9

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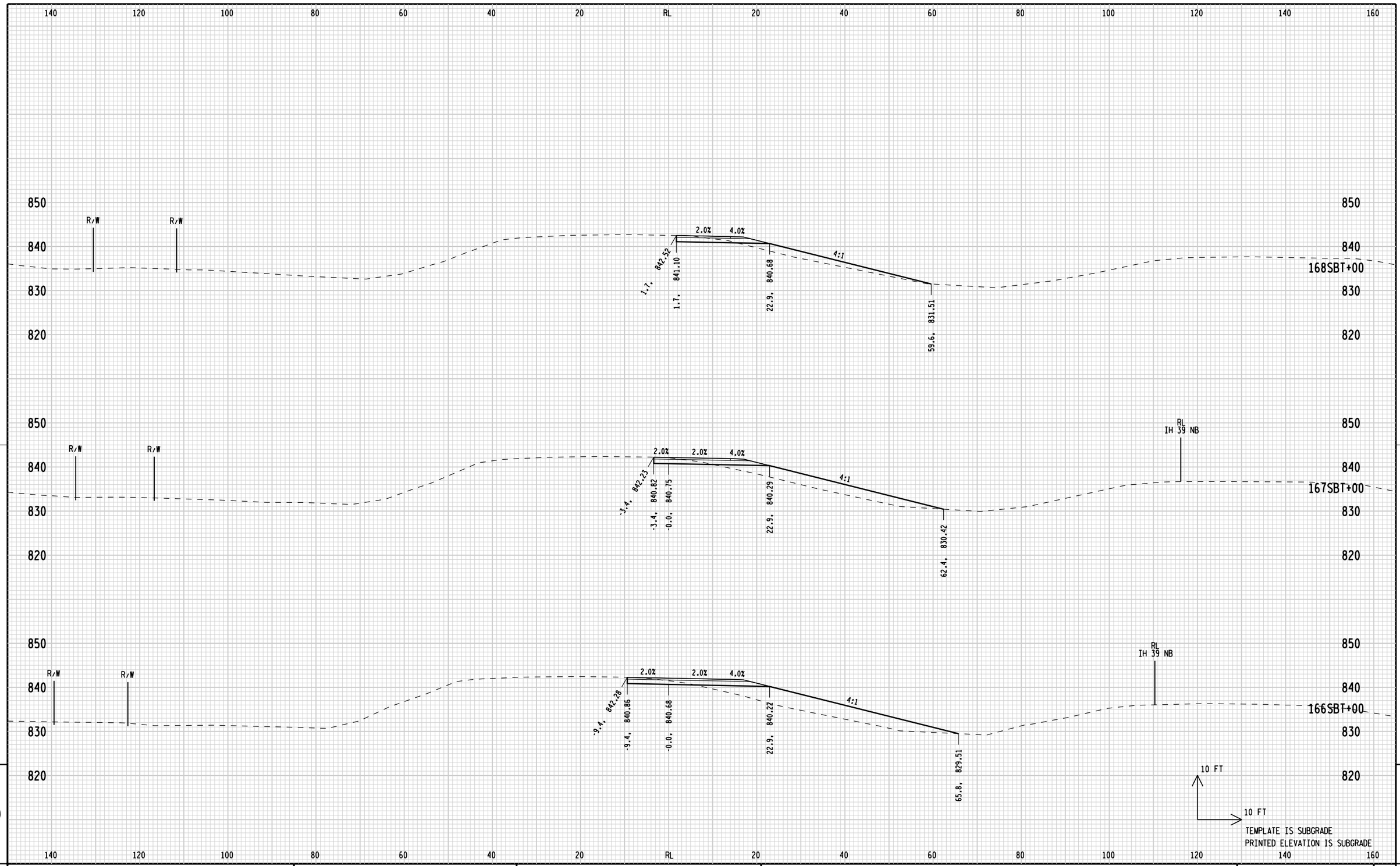
STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 438 E



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9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 439	E



STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 440	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_Median_Bypass.dgn
BATCH PRINT SHEET 23 OF 24
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:42:00 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

850
840
830

R/W

END CONSTRUCTION
STA 173SBT+09.00
MATCH EXISTING - SAWCUT REQUIRED

850
840
830

R/W

2.0% 4.0% 5.3:1
11.2, 844.13
11.2, 842.71
22.9, 840.64

850
171SBT+00
840
830

850
840
830

R/W

2.0% 4.0% 4:1
8.8, 843.42
8.9, 842.00
22.9, 841.72
27.8, 840.50

850
170SBT+00
840
830

850
840
830

R/W R/W

2.0% 4.0% 4:1
5.6, 842.92
5.6, 841.50
22.9, 841.15
39.6, 836.99

850
169SBT+00
840
830
820

10 FT
10 FT

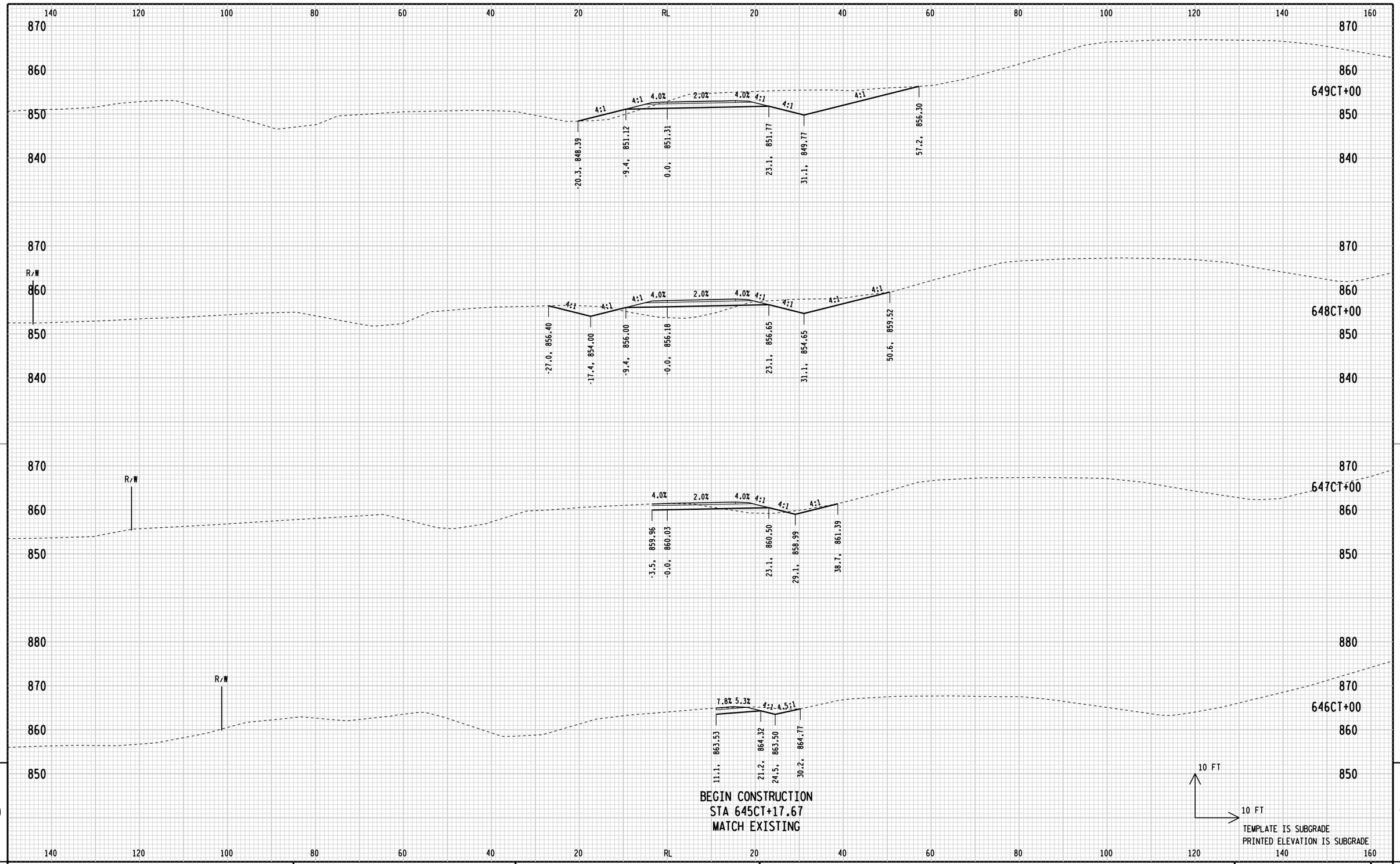
TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS	SHEET 441 E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_Median_Bypass.dgn
BATCH PRINT SHEET 24 OF 24
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:42:00 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: TEMPORARY C RAMP	SHEET 442 E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_temp_ramps.dgn
BATCH PRINT SHEET 1 OF 3
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:44:01 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

STA 651CT+00
CULVERT PIPE TEMPORARY 30-INCH
INV 838.37 (W)
INV 838.68 (E)

END CONSTRUCTION
STA 651CT+51.41
MATCH EXISTING

651CT+72

651CT+00

650CT+00

-50.1, 838.48
-28.9, 838.37
-24.7, 840.87
-18.0, 842.54
-0.0, 842.90
29.0, 843.48
38.2, 841.17
42.4, 838.69
50.7, 838.73
86.8, 850.30

-25.4, 845.93
-17.4, 843.92
-9.4, 845.92
0.0, 846.11
23.1, 846.57
31.1, 844.57
67.6, 853.71

10 FT
10 FT

TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

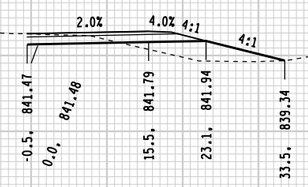
STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: TEMPORARY C RAMP	SHEET 443 E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_temp_ramps.dgn
BATCH PRINT SHEET 2 OF 3
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:44:01 AM
PLOT SCALE: 1:20

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

870 860 850 840 830

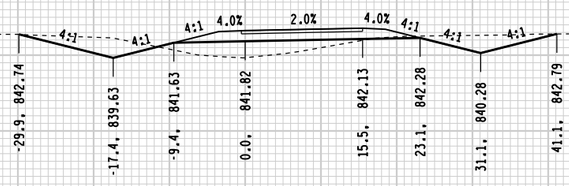
END CONSTRUCTION
653DT+60.30
MATCH EXISTING



653DT+50

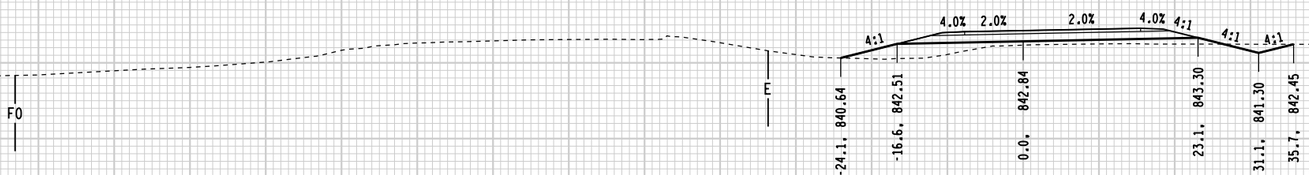
870 860 850 840 830

653DT+00



870 860 850 840 830

652DT+50



BEGIN CONSTRUCTION
STA 652DT+17.87
MATCH EXISTING



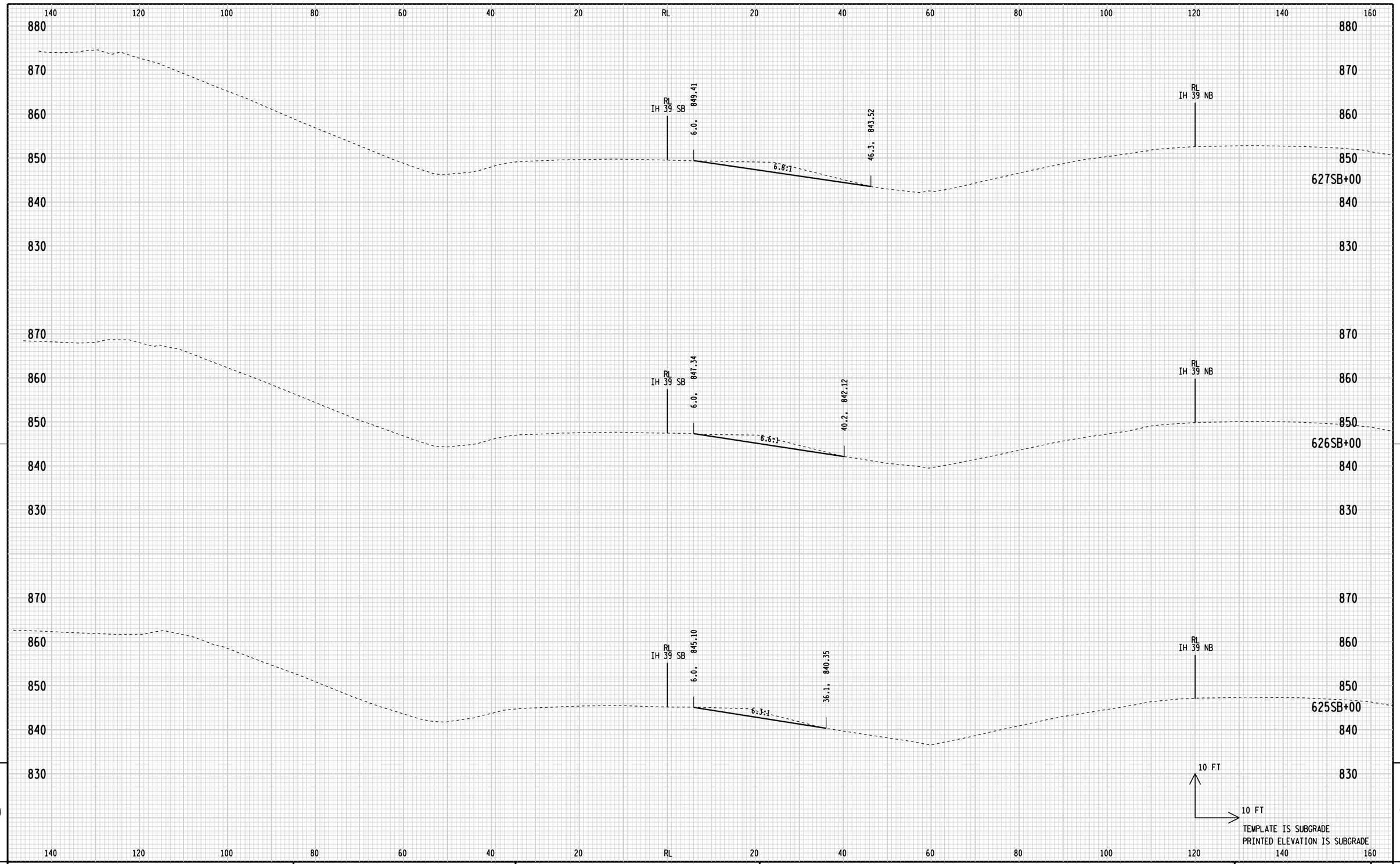
TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: TEMPORARY D RAMP	SHEET 444	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_temp_ramps.dgn
BATCH PRINT SHEET 3 OF 3
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 10:44:01 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9

9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 445	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_removebypass_Cross Sections.dgn
BATCH PRINT SHEET 1 OF 18
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 11:00:36 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

890 880 870 860 850 840

RL IH 39 SB

6.0, 853.20

8.5:1

57.3, 847.18

RL IH 39 NB

629SB+00

890 880 870 860 850 840

RL IH 39 SB

6.0, 851.40

7.2:1

54.1, 844.68

RL IH 39 NB

628SB+00

10 FT

10 FT

TEMPLATE IS SUBGRADE

PRINTED ELEVATION IS SUBGRADE

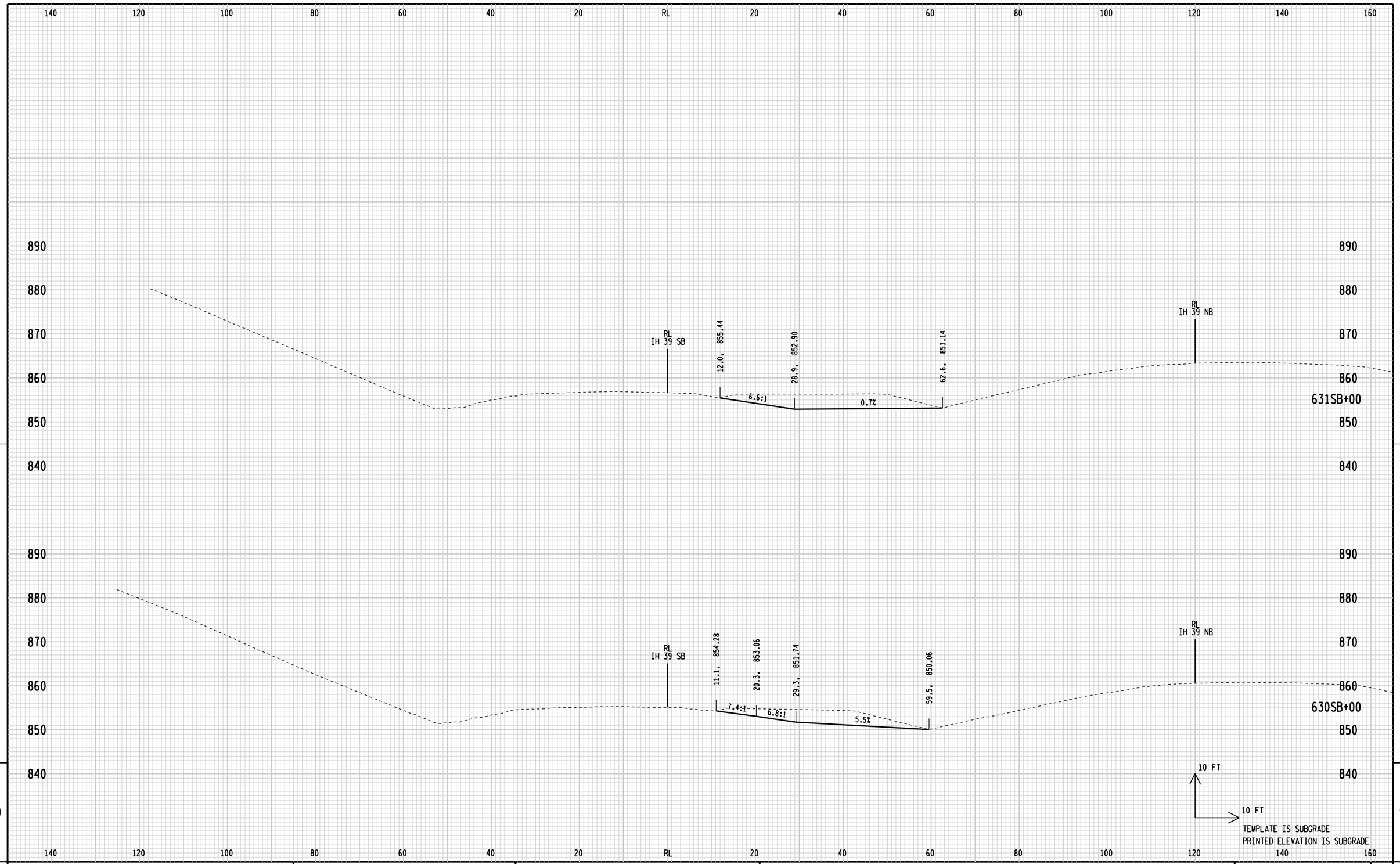
140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

9

9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 446	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_removebypass_Cross Sections.dgn
BATCH PRINT SHEET 2 OF 18
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 11:00:37 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

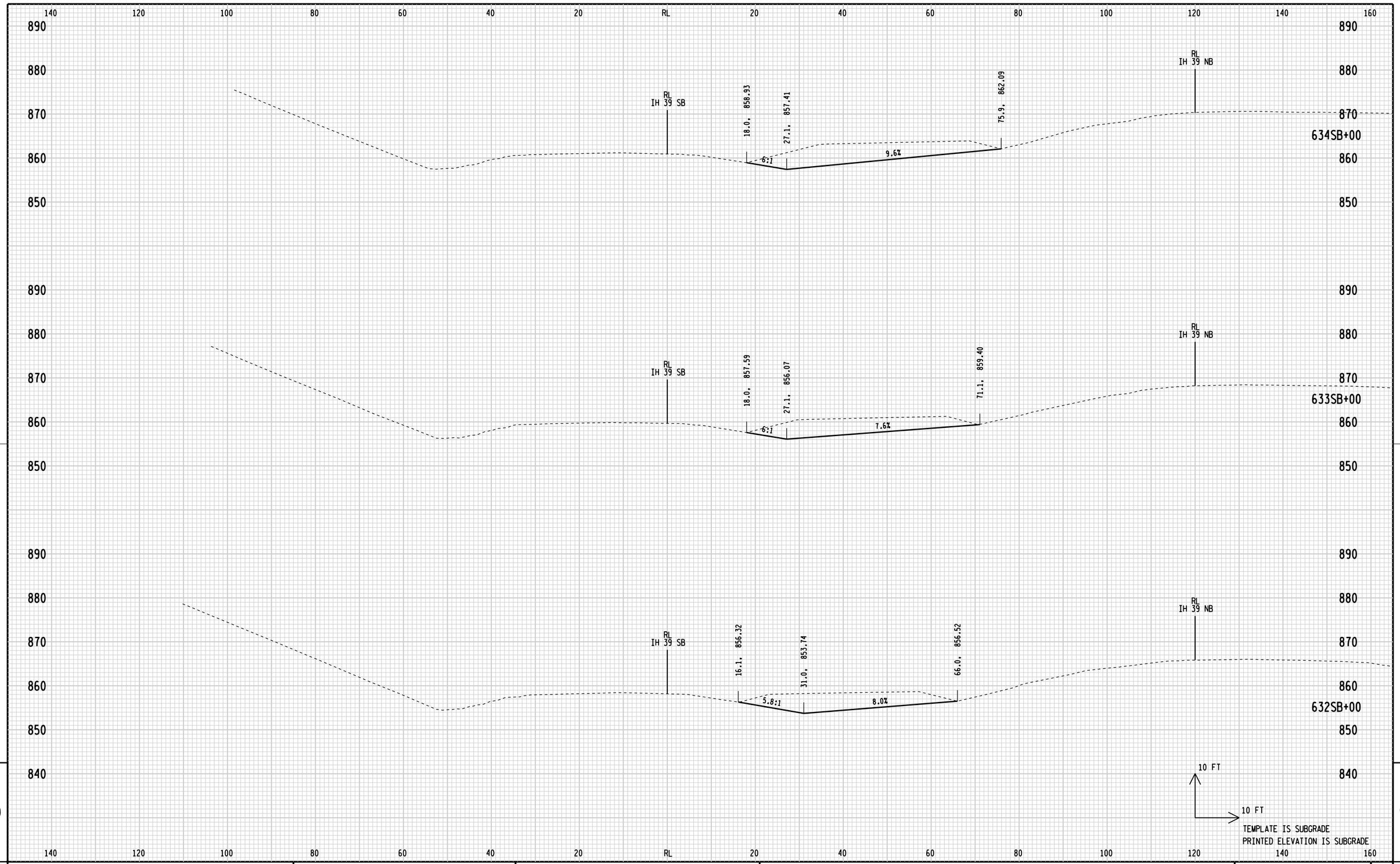


9

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STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 447	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_removebypass_Cross Sections.dgn
BATCH PRINT SHEET 3 OF 18
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 11:00:37 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

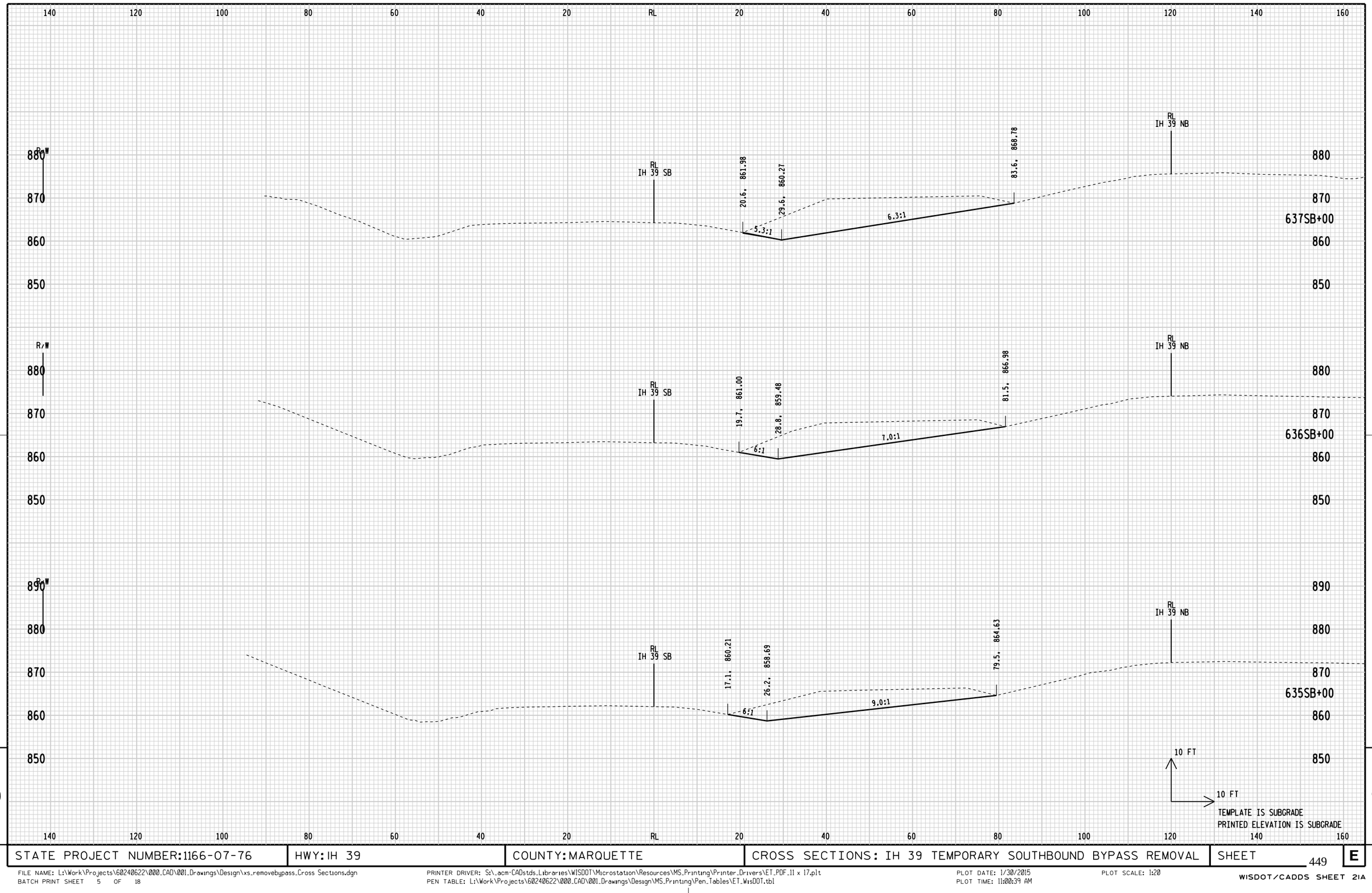


9

9

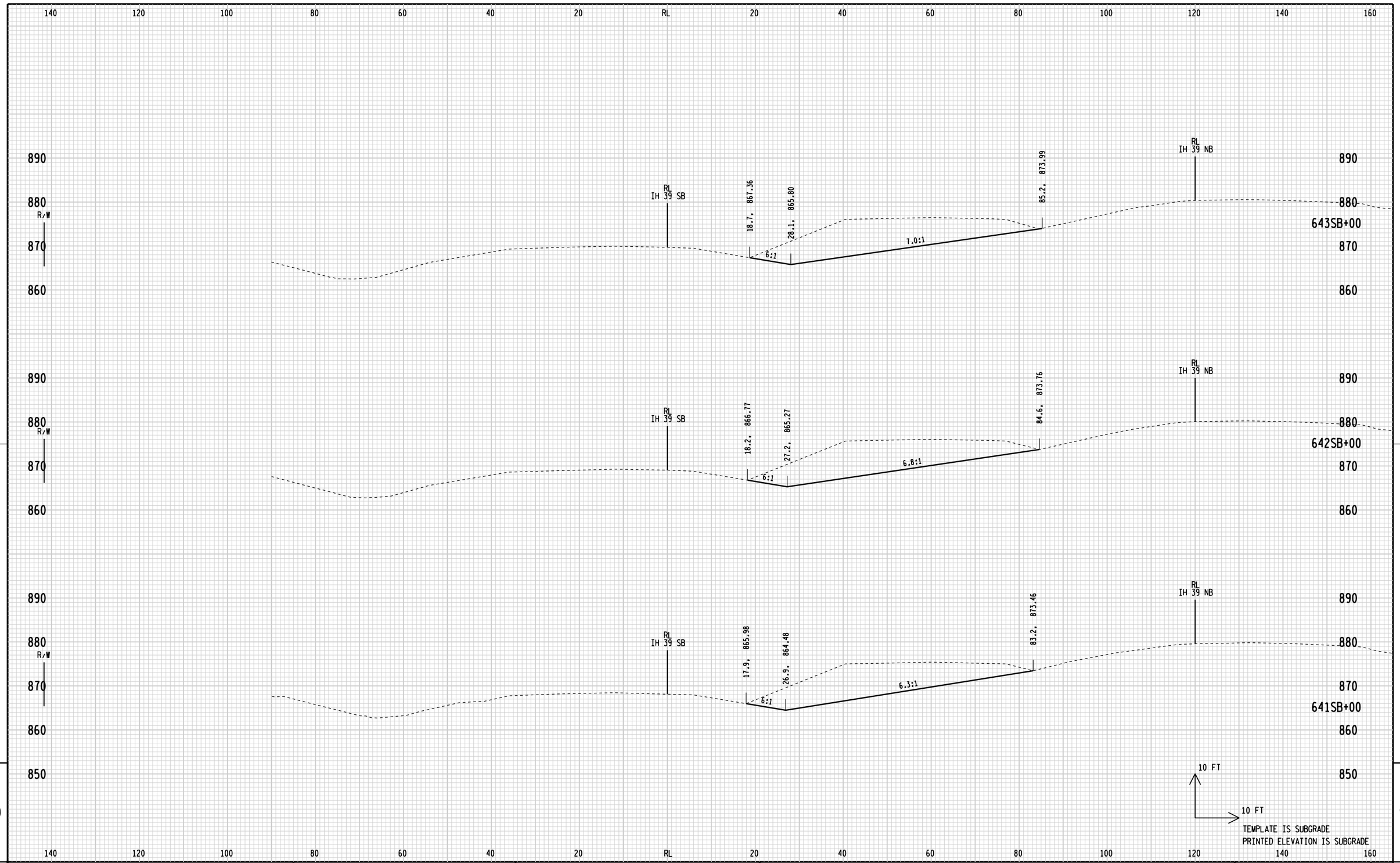
STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 448	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_removebypass_Cross Sections.dgn
BATCH PRINT SHEET 4 OF 18
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 11:00:38 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



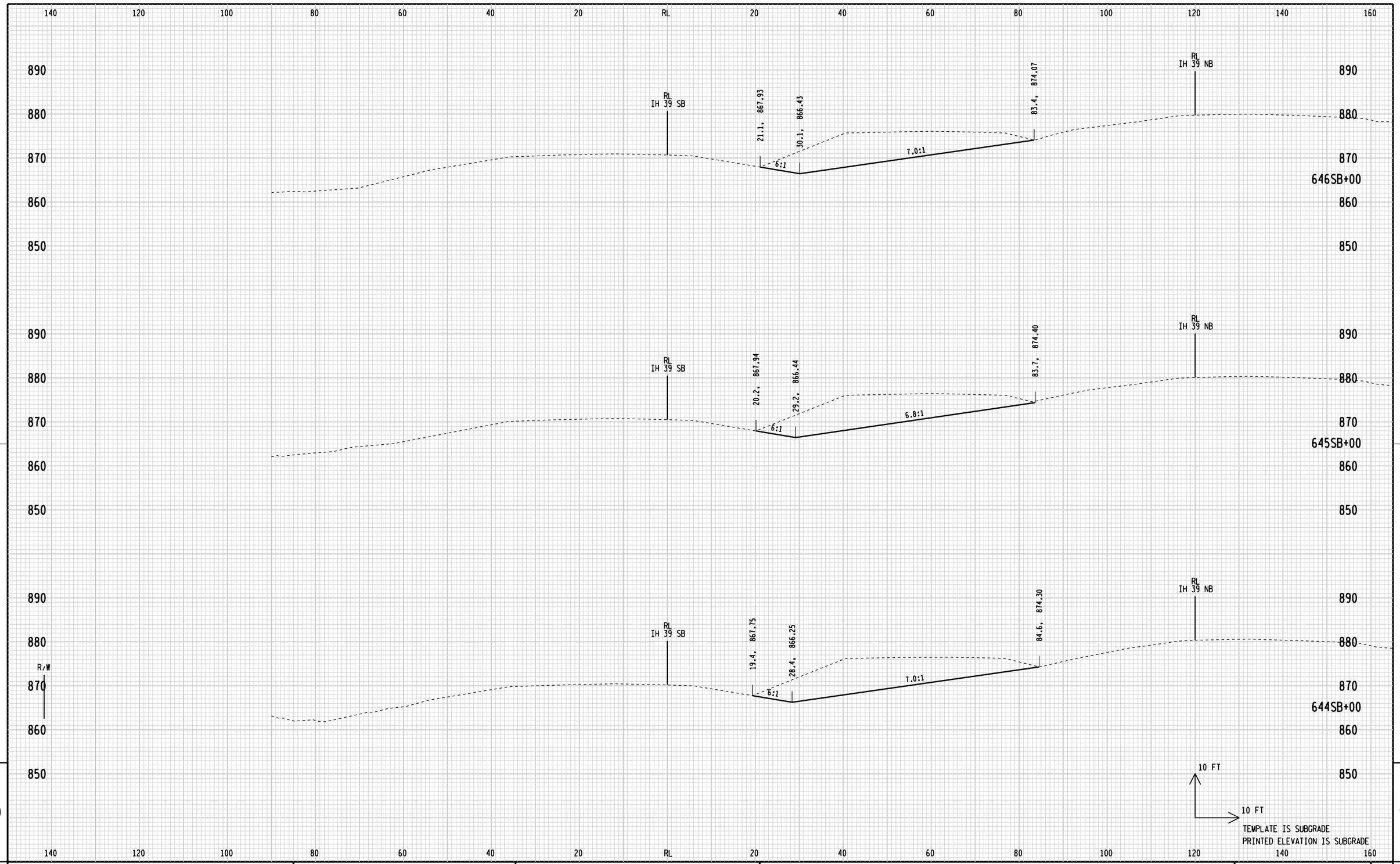
STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 449	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_removebypass_Cross Sections.dgn
BATCH PRINT SHEET 5 OF 18
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 1/30/2015
PLOT TIME: 11:00:39 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 450	E

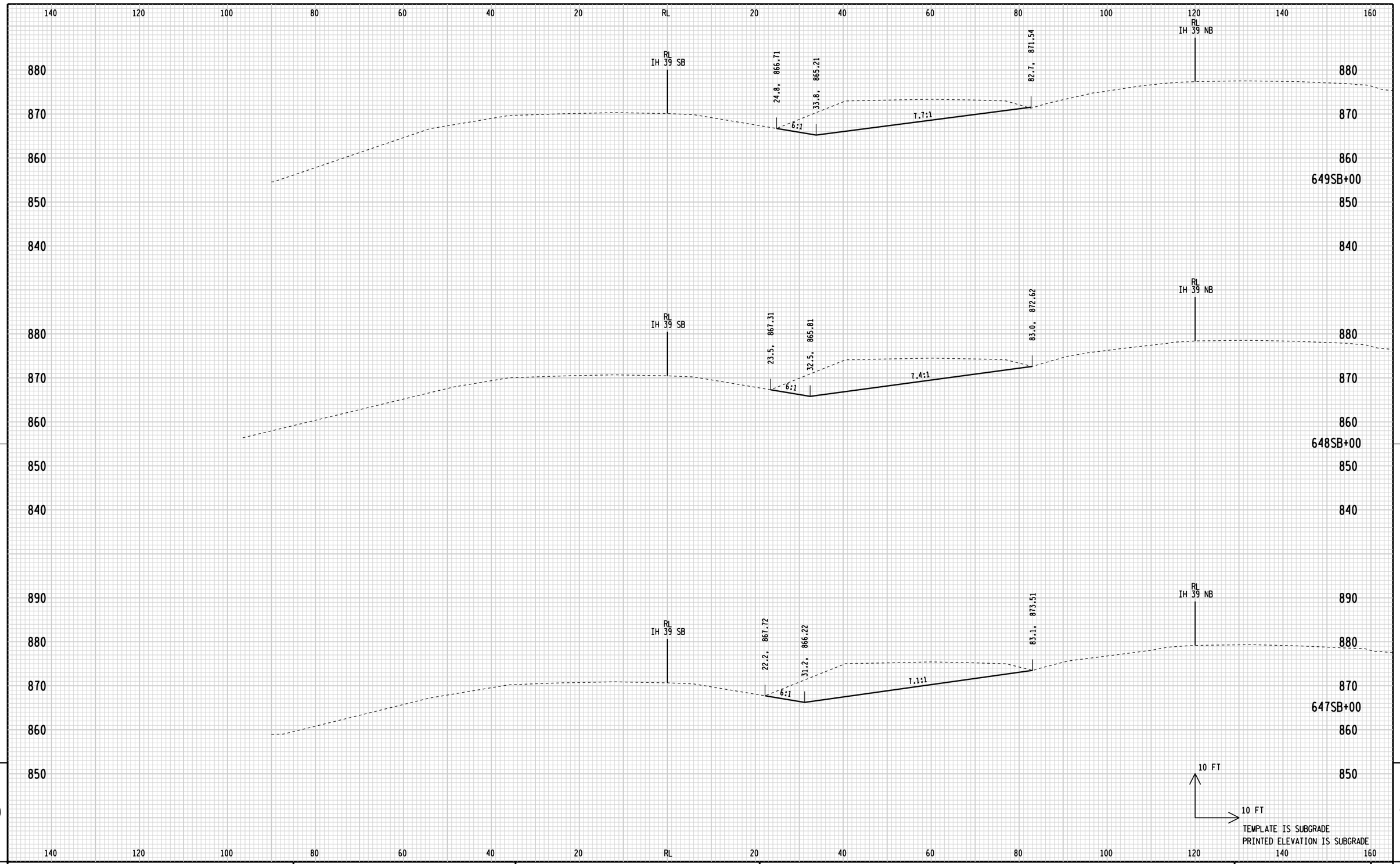
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BATCH PRINT SHEET 6 OF 18
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PLOT DATE: 1/30/2015
PLOT TIME: 11:00:39 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 451	E

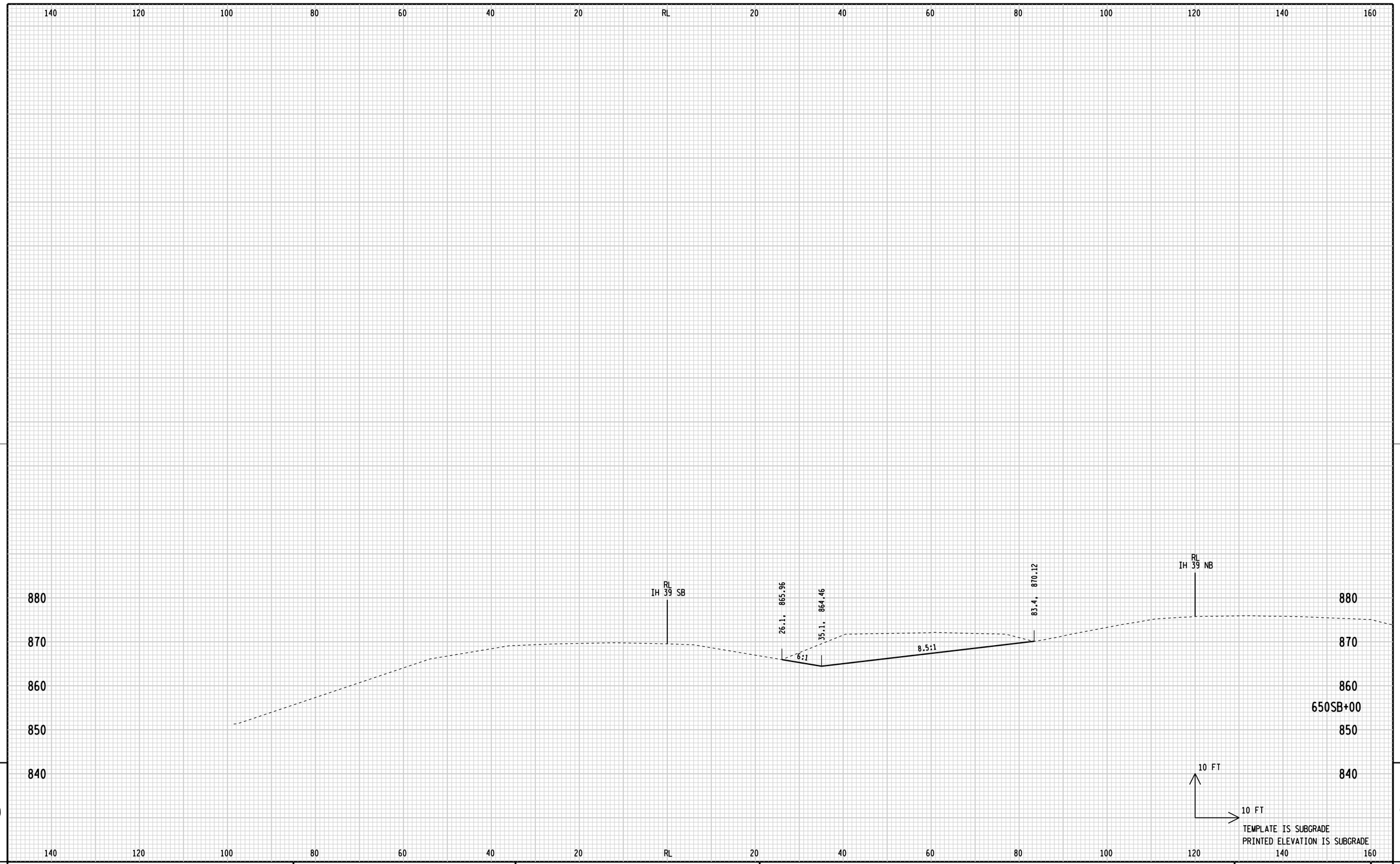
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PLOT DATE: 1/30/2015
PLOT TIME: 11:00:40 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 452	E

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PLOT TIME: 11:00:40 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

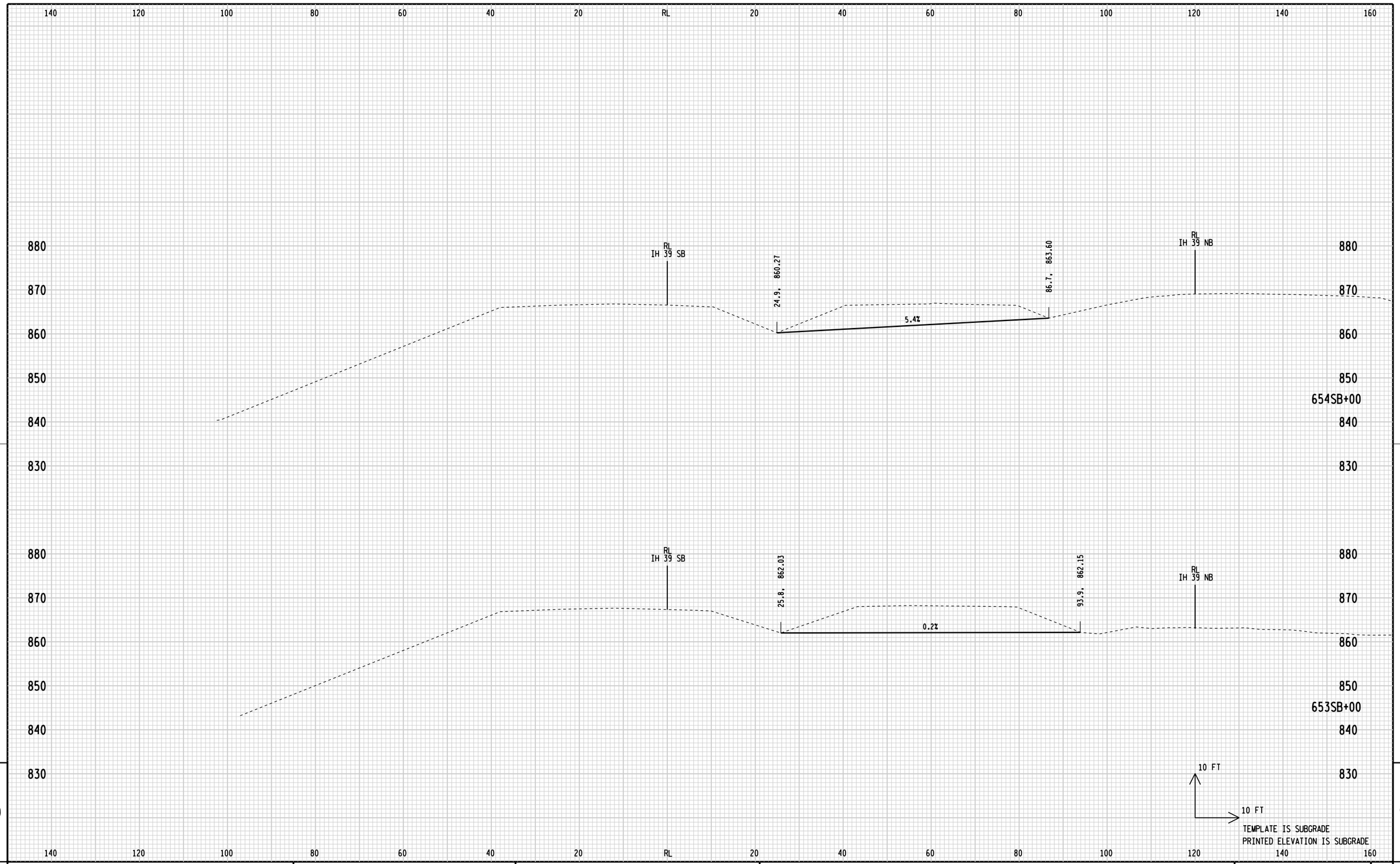


9

9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 453	E

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PLOT DATE: 1/30/2015
PLOT TIME: 11:00:41 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 454	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_removebypass_Cross Sections.dgn
BATCH PRINT SHEET 10 OF 18
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PLOT DATE: 1/30/2015
PLOT TIME: 11:00:41 AM
PLOT SCALE: 1:20

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

RL IH 39 SB

RL IH 39 NB

30.0, 858.38

69.4, 854.45

89.5, 856.45

10.0%

10.0%

870 860 850 840 830

657SB+00

30.6, 858.79

56.8, 856.17

88.1, 859.30

10.0%

10.0%

656SB+00

26.4, 859.12

87.4, 861.60

4.1%

655SB+00

10 FT

10 FT

TEMPLATE IS SUBGRADE

PRINTED ELEVATION IS SUBGRADE

9

9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 455	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_removebypass_Cross Sections.dgn
BATCH PRINT SHEET 11 OF 18

PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 1/30/2015
PLOT TIME: 11:00:42 AM

PLOT SCALE: 1:20

WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

870 860 850 840 830 820

RL IH 39 SB

34.7, 852.99 | 73.3, 849.13 | 90.6, 850.86

10.0% 10.0%

RL IH 39 NB

659SB+00

870 860 850 840 830 820

RL IH 39 SB

34.0, 855.26 | 70.4, 851.62 | 90.2, 853.59

10.0% 10.0%

RL IH 39 NB

658SB+00

870 860 850 840 830 820

10 FT

10 FT

TEMPLATE IS SUBGRADE

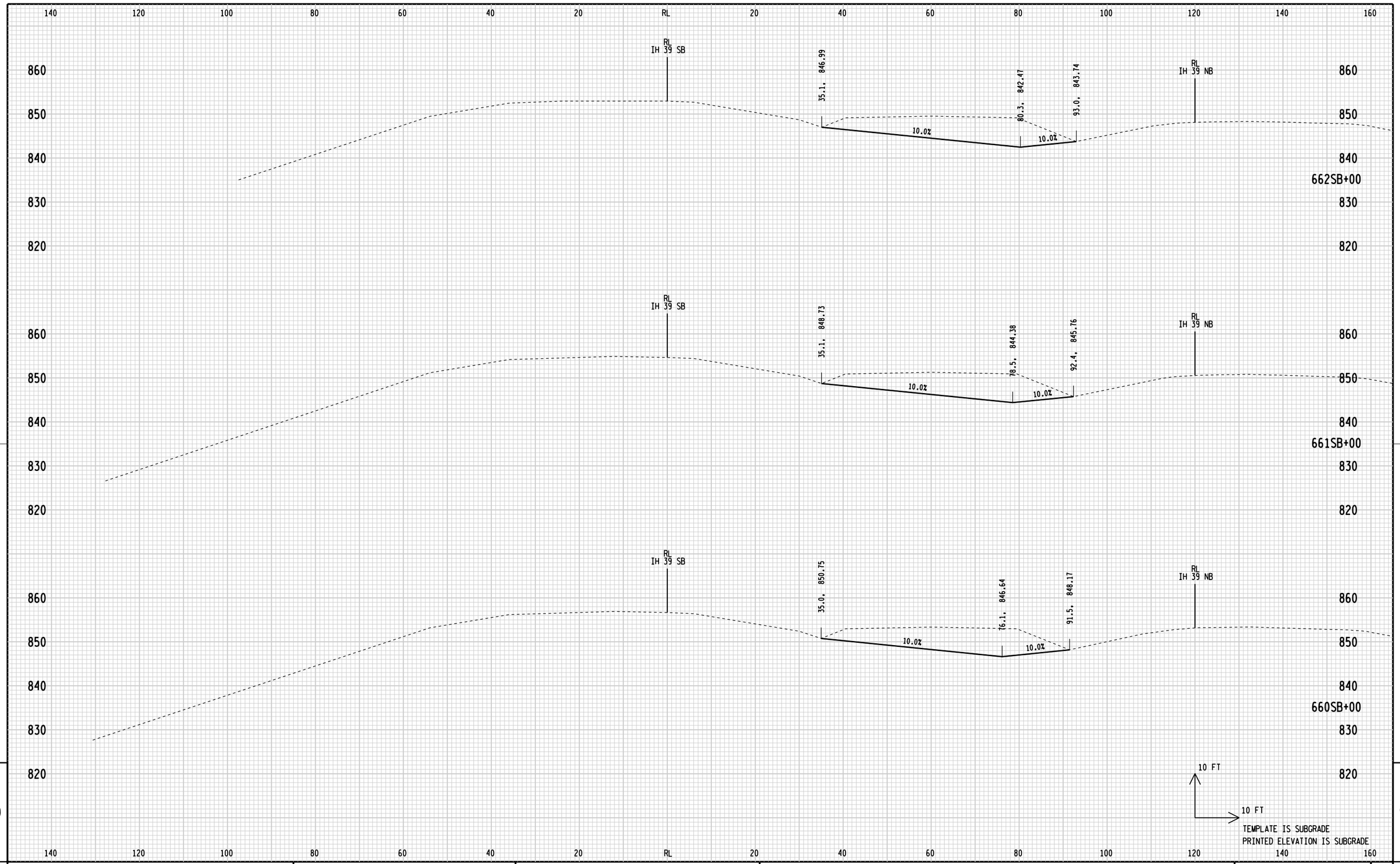
PRINTED ELEVATION IS SUBGRADE

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 456	E

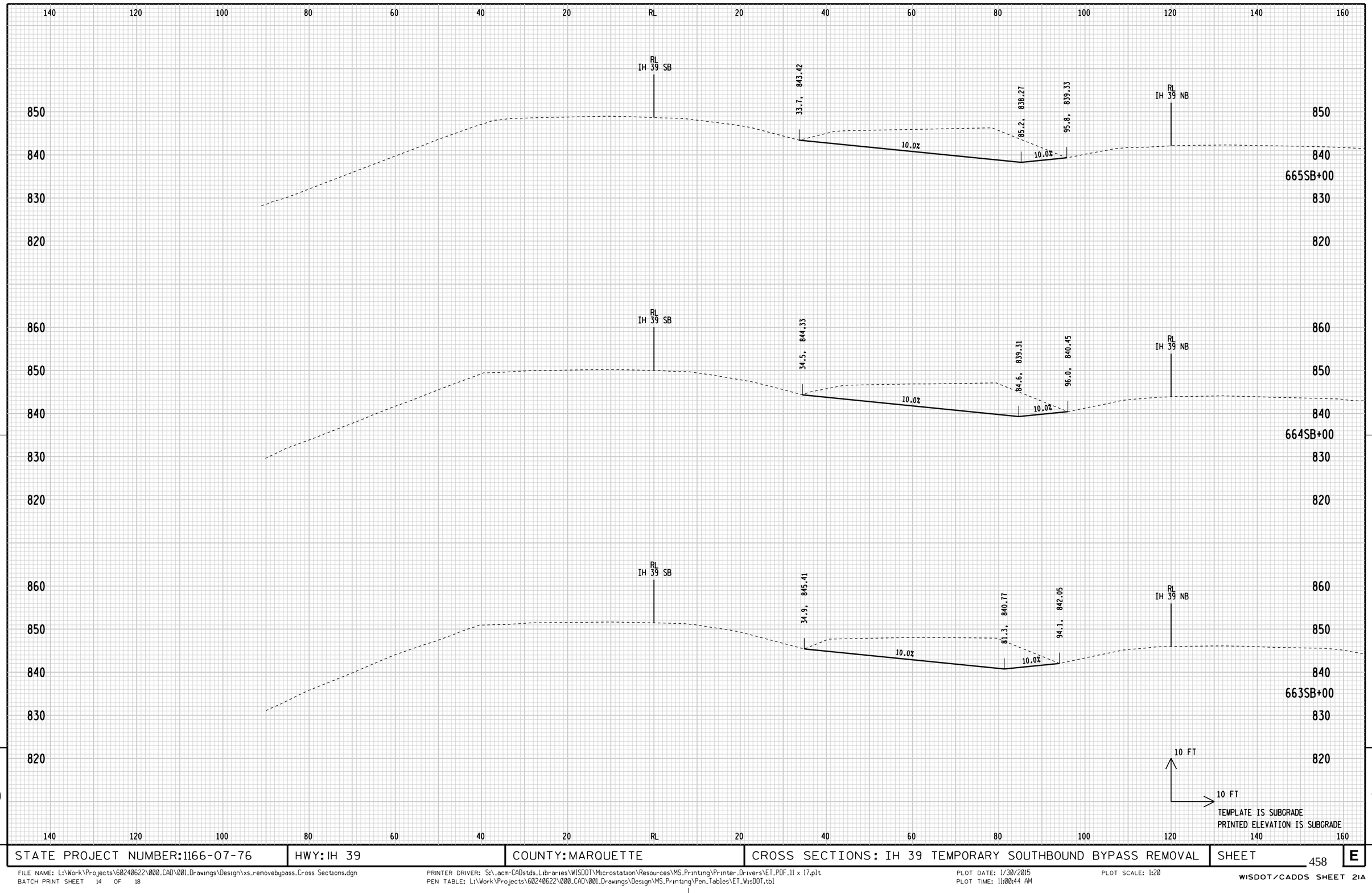
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BATCH PRINT SHEET 12 OF 18
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 1/30/2015
PLOT TIME: 11:00:43 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 457	E

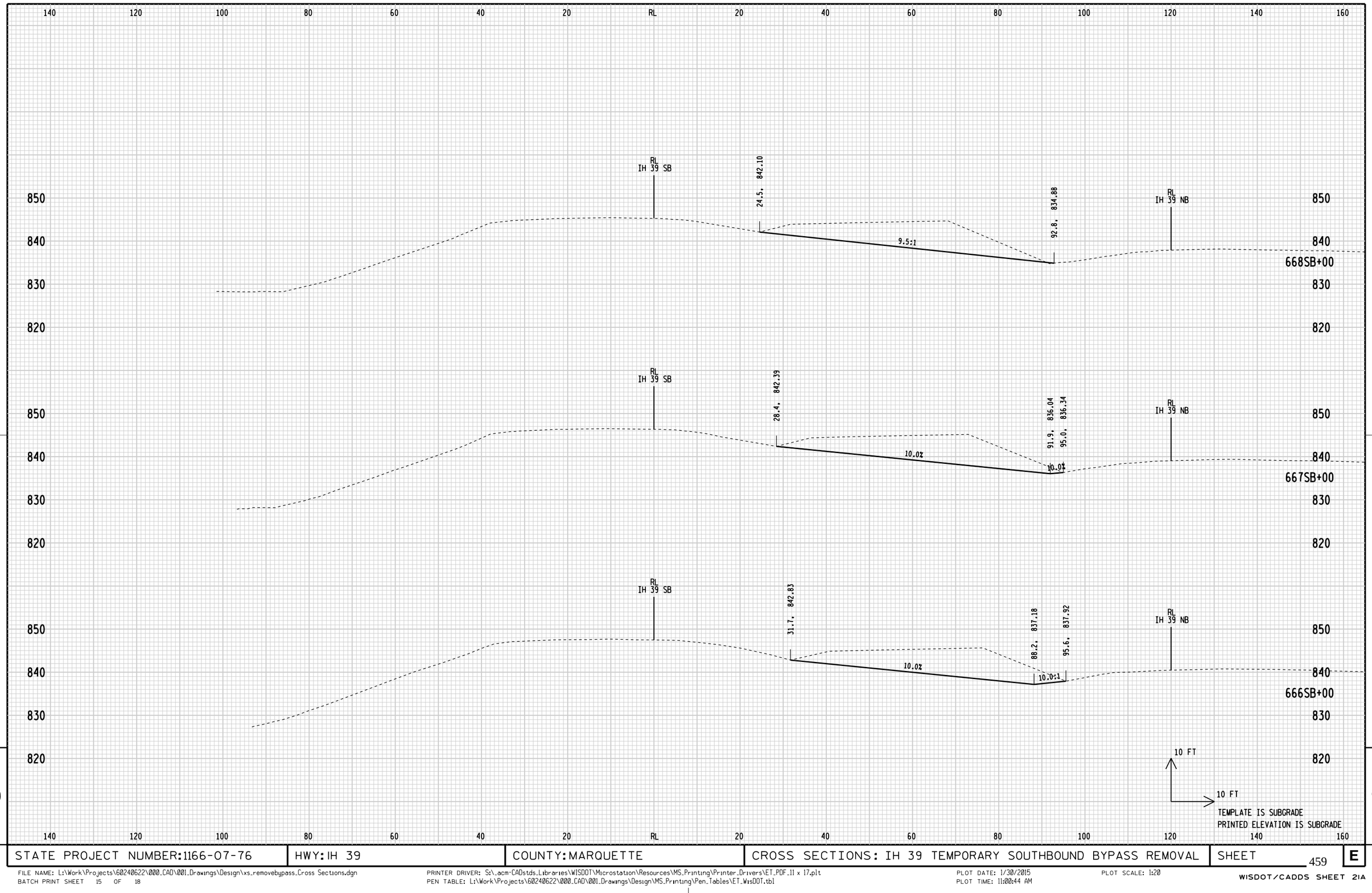
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PLOT DATE: 1/30/2015
PLOT TIME: 11:00:43 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9 9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 458	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_removebypass_Cross Sections.dgn
BATCH PRINT SHEET 14 OF 18
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 1/30/2015
PLOT TIME: 11:00:44 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

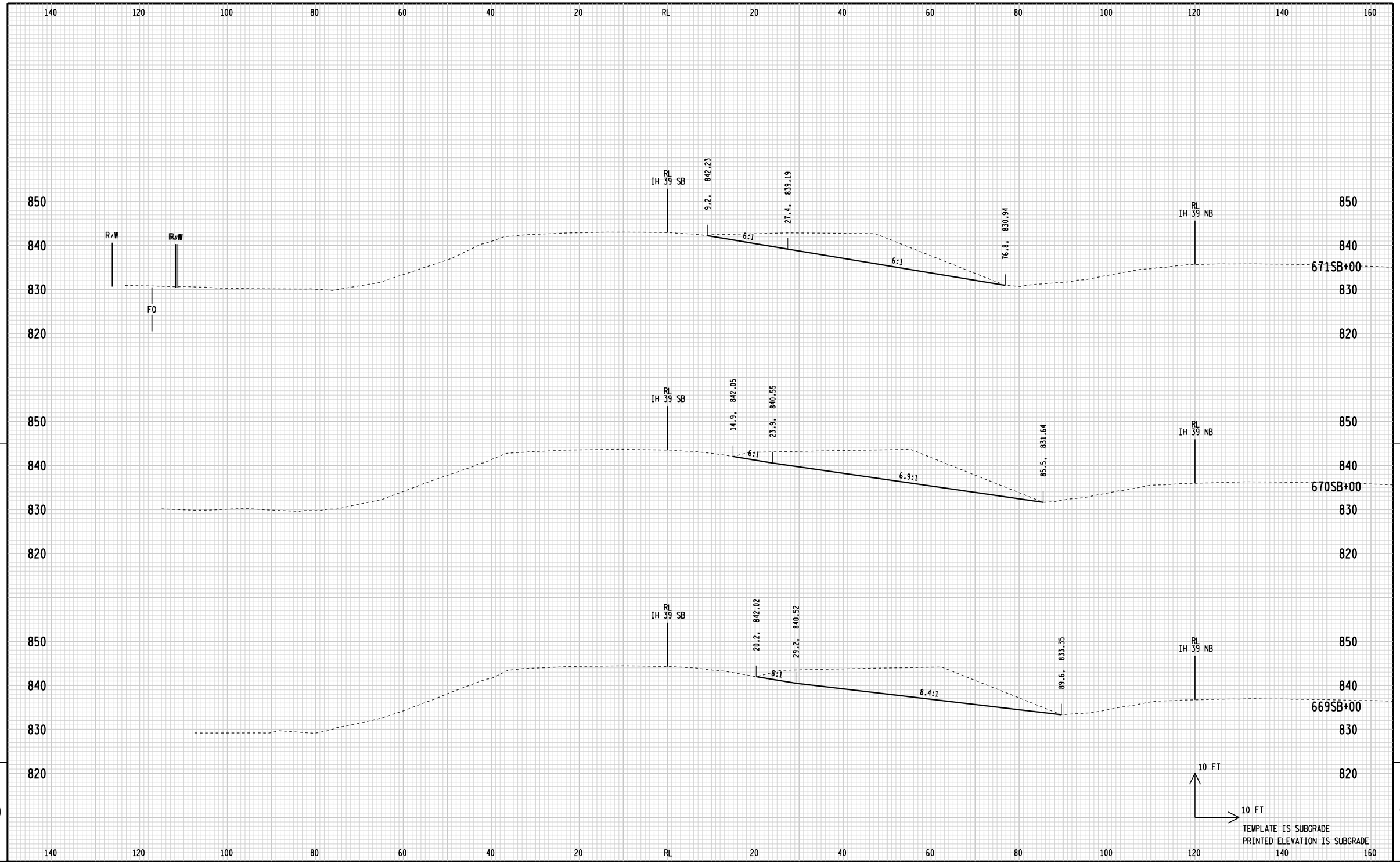


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9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_removebypass_Cross Sections.dgn
BATCH PRINT SHEET 15 OF 18
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 1/30/2015
PLOT TIME: 11:00:44 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A



9

9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 460	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_removebypass_Cross Sections.dgn
BATCH PRINT SHEET 16 OF 18
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PLOT DATE: 1/30/2015
PLOT TIME: 11:00:45 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

850 840 830 820

R/W RR/W FO

RL IH 39 SB 842.15

6.0, 5.3:1 70.1, 830.11

RL IH 39 NB

674SB+00

850 840 830 820

R/W RR/W FO

RL IH 39 SB 842.26

6.0, 5.7:1 77.3, 829.85

RL IH 39 NB

673SB+00

850 840 830 820

R/W RR/W FO

RL IH 39 SB 842.46

6.0, 6:1 77.2, 830.64

RL IH 39 NB

672SB+00

850 840 830 820

10 FT

10 FT

TEMPLATE IS SUBGRADE

PRINTED ELEVATION IS SUBGRADE

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

9 9

STATE PROJECT NUMBER:1166-07-76	HWY:IH 39	COUNTY:MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 461	E

FILE NAME: L:\Work\Projects\60240622\000_CAD\001_Drawings\Design\xs_removebypass_Cross Sections.dgn
BATCH PRINT SHEET 17 OF 18
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 1/30/2015
PLOT TIME: 11:00:45 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 21A

140 120 100 80 60 40 20 RL 20 40 60 80 100 120 140 160

850 840 830 820

R/W FR/W

676SB+00

R/W FR/W FO

RL
IH 39 SB
842.34
6.0,
-5.0%
61.7, 831.15

RL
IH 39 NB

675SB+00

10 FT
10 FT

TEMPLATE IS SUBGRADE
PRINTED ELEVATION IS SUBGRADE

9

9

STATE PROJECT NUMBER: 1166-07-76	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 TEMPORARY SOUTHBOUND BYPASS REMOVAL	SHEET 462	E

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov