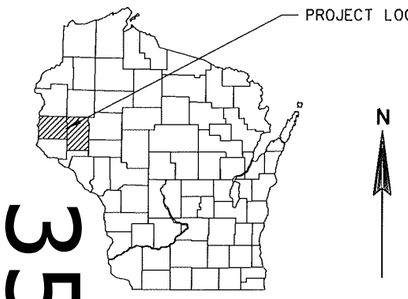
EAU MARCH 2015

PROJECT ID: 7090-05-65
WITH: N/A

ORDER OF SHEETS

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

TOTAL SHEETS = 250



COUNTY: ST. CROIX AND DUNN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

BALDWIN - MENOMONIE

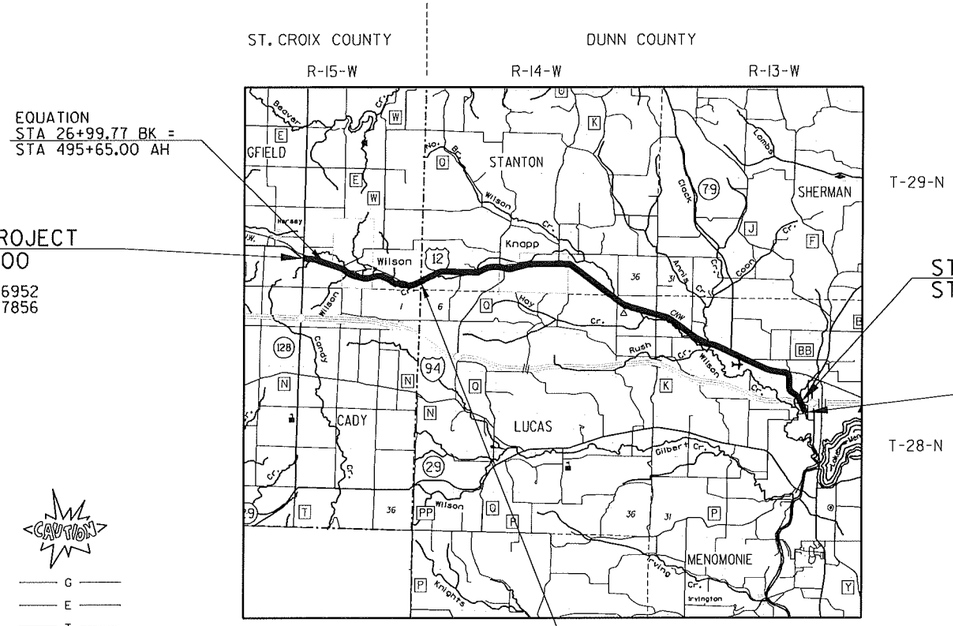
STH 128 TO IH 94

USH 12

ST. CROIX AND DUNN COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7090-05-65	WISC 2015149	1

STATE PROJECT NUMBER
7090-05-65



EQUATION
STA 26+99.77 BK =
STA 495+65.00 AH

BEGIN PROJECT
STA 10+00

Y = 335310.6952
X = 656210.7856

STRUCTURE C-17-5038
STA 568+01.91

END PROJECT
STA 580+00

EQUATION
STA 645+82.09 BK =
STA 0+00.00 AH

LAYOUT
SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 14.17

DESIGN DESIGNATION

		ST. CROIX CO.	DUNN COUNTY CO.
A.A.D.T.	(2014)	= 1600	3065
A.A.D.T.	(2034)	= 1980	3760
D.H.V.		= 238	451
D.D.		= 60/40	60/40
T.		= 4.7%	4.7%
DESIGN SPEED		= 60 MPH	60 MPH
ESALS		= -------	-------

CONVENTIONAL SYMBOLS

COUNTY LINE		COMBUSTIBLE FLUIDS	CAUTION
CORPORATE LIMITS		UNDERGROUND UTILITIES	
PROPERTY LINE	P.L. + 58.1	GAS	G
LOT LINE		ELECTRIC	E
LIMITED EASEMENT		TELEPHONE OR TELEGRAPH	T
EARTHWORK BALANCE POINT		TV/CABLE	TV
EXISTING RIGHT OF WAY		SERVICE PEDESTAL	
PROPOSED OR NEW R/W LINE		POWER POLE	
SURVEY LINE		TELEPHONE POLE	
SLOPE INTERCEPT		RAILROAD	
ORIGINAL GROUND		SANITARY SEWER	SAN
MARSH OR ROCK PROFILE (To be noted as such)	ROCK	STORM SEWER	SS
		WATER	W
MARSH AREA		EXISTING CULVERT	
		PROPOSED CULVERT (Box or Pipe)	
WOODED OR SHRUB AREA		CULVERT (Profile View)	

Coordinates on this plan are referenced to an assumed coordinate system.

ORIGINAL PLANS PREPARED BY:

SEH
WISCONSIN
TARA L. KRISTA
37975
CHIPPEWA FALLS, WI
PROFESSIONAL ENGINEER
10-30-14

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	SEH
Project Manager	WENDY MAVES, P.E.
Regional Examiner	DAN OJIBWAY
Regional Supervisor	TIM MASON, P.E.
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 10/31/14 (Signature)

E

STANDARD ABBREVIATIONS

ABUT	ABUTMENT
AC	ACRE
AGG	AGGREGATE
AECPRC	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
ASPH	ASPHALTIC
AVG	AVERAGE
ADT	AVERAGE DAILY TRAFFIC
BF	BACK FACE
BM	BENCH MARK
BR	BRIDGE
CE	COMMERCIAL ENTRANCE
CL OR C/L OR ℄	CENTER LINE
Δ	CENTRAL ANGLE OR DELTA
CONC	CONCRETE
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CR	CREEK
CY	CUBIC YARD
C & G	CURB AND GUTTER
D	DEGREE OF CURVE
DHV	DESIGN HOUR VOLUME
DISCH	DISCHARGE
DG	DITCH GRADE
DWY	DRIVEWAY
X	EAST GRID COORDINATE
EAT	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
EOR	END POINT OF RADIUS
EL	ELEVATION
ENT	ENTRANCE
ESALS	EQUIVALENT SINGLE AXLE LOADS
EXC	EXCAVATION
EBS	EXCAVATION BELOW SUBGRADE
EXIST	EXISTING
FC	FACE OF CURB
FF	FACE TO FACE
FERT	FERTILIZE
FE	FIELD ENTRANCE
FL	FLOW LINE
FO	FIBER OPTIC
CWT	HUNDREDWEIGHT
HYD	HYDRANT
ID	INSIDE DIAMETER
INV	INVERT
IP	IRON PIPE ON PIN
LHF	LEFT-HAND FORWARD
L	LENGTH OF CURVE
LF	LINEAR FOOT
LC	LONG CHORD OF CURVE
LS	LUMP SUM
MH	MANHOLE
MOR	MID POINT OF RADIUS
NC	NORMAL CROWN
NO	NUMBER
OBLIT	OBLITERATE
PAVT	PAVEMENT
PE	PRIVATE ENTRANCE
PVRC	POINT OF VERTICAL REVERSE CURVE
QOR	QUARTER POINT OF RADIUS
R	RADIUS
REQ'D	REQUIRED
RES	RESIDENCE OR RESIDENTIAL
RHF	RIGHT-HAND FORWARD
R/W	RIGHT-OF-WAY
R	RIVER
RDWY	ROADWAY
R/L OR ℄	REFERENCE LINE
SALV	SALVAGED
SAN	SANITARY SEWER
SF	SQUARE FEET
SY	SQUARE YARD
SDD	STANDARD DETAIL DRAWINGS
STA	STATION
SS	STORM SEWER
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SE	SUPERELEVATION RATE
TC	TOP OF CURB
T OR TN	TOWN
T	TRUCKS (PERCENT OF)
TYP	TYPICAL
VAR	VARIABLE
VC	VERTICAL CURVE
Y	NORTH GRID COORDINATE
YD	YARD

GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE APPROXIMATE USGS DATUM.

WHEN THE QUANTITY OF BASE AGGREGATE OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

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

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

THE EXACT LOCATION OF THE EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH SALVAGED TOPSOILED/ TOPSOILED, FERTILIZED, SEEDED AND MULCHED. FINISHED SEEDED SURFACE SHALL BE 1-INCH BELOW THE TOP OF ADJACENT CONCRETE.

THE LOCATION OF ALL DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

ALL CURB AND GUTTER RADII, PAVEMENT DIMENSIONS AND STATIONS ARE SHOWN TO THE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

ALL SIDE ROAD EARTHWORK QUANTITIES ARE INCLUDED IN MAINLINE EARTHWORK QUANTITIES.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS AND PAVEMENTS AT REMOVAL LIMITS.

CONSTRUCTION PERMITS FOR SIDEWALK AND/OR DRIVEWAY CONSTRUCTION HAVE BEEN OBTAINED AND SUCH RIGHTS WILL BE EXTENDED TO THE CONTRACTOR.

SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND IN PLACE PRIOR TO CULVERT WORK.

BEARINGS SHOWN ON THE PLAN ARE REFERENCED TO THE EXISTING ROADWAY CENTERLINE AND ARE ASSUMED.

EXISTING PIPE CULVERT AND/OR CONCRETE BOX CULVERT SIZES SHOWN ARE APPROXIMATE AND THE CONTRACTOR SHALL BASE ITS BID ON ACTUAL FIELD CONDITIONS.

STATIONING, DISTANCES AND OFFSETS FOR PROPOSED SIGNS SHOWN ON THE PLAN ARE APPROXIMATE. ACTUAL LOCAITONS OF SIGNS ARE TO BE COORDINATED IN THE FIELD WITH THE ENGINEER.

PRIOR TO PLACEMENT OF BEAMGUARD AND GUARDRAIL, THE SHOULDERS SHALL BEN IN PLACE, SHAPED AND COMPACTED UNLESS SHOWN OTHERWISE

UTILIZE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AT THE BEGINNING AND END OF THE PROJECT AND AT ALL SIDE ROADS INTERSECTION USH 12.

UTILIZE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)" THROUGHOUT THE PROJECT.

UTILITY CONTACTS

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XCEL ENERGY - TRANSMISSION
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PAMELA.L.TAYLOR@XCELENERGY.COM

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

**NOT A MEMBER OF DIGGERS HOTLINE

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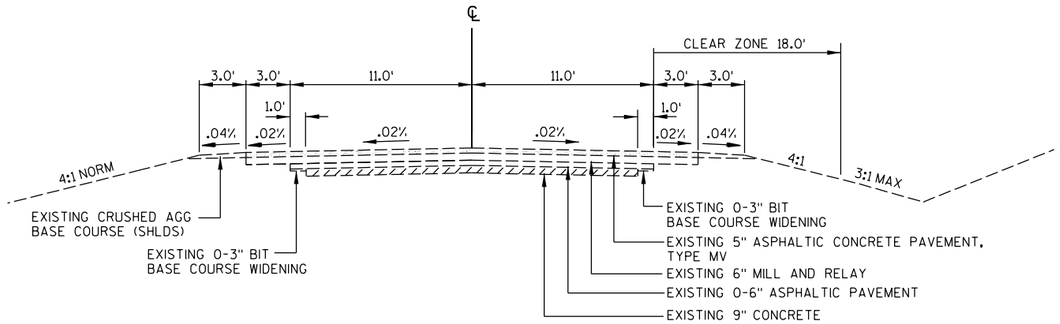
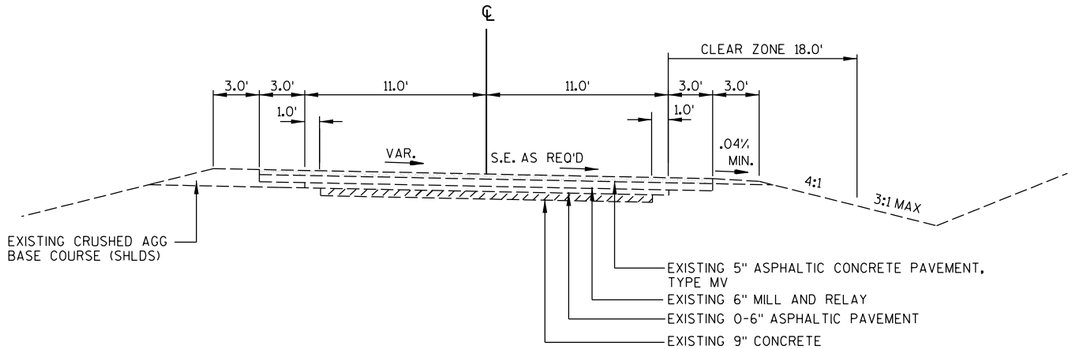
ATTENTION: WENDY MAVES
EMAIL: WENDY.MAVES@DOT.WI.GOV



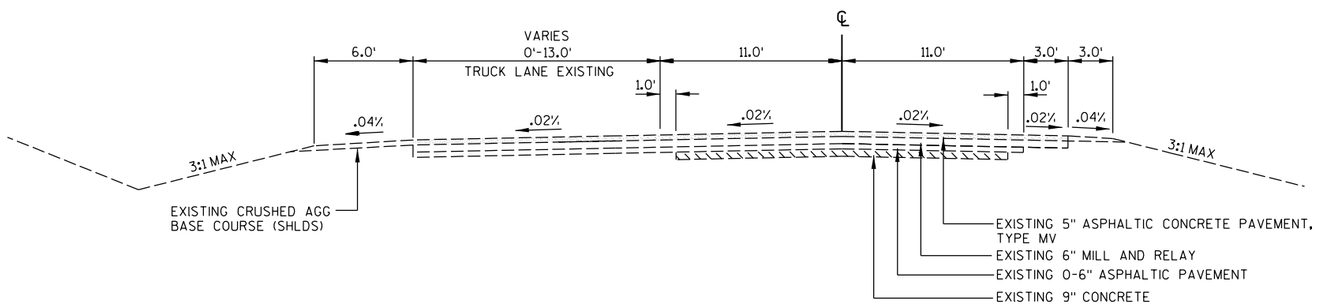
EXISTING TYPICAL SECTION

STA 10+00 - STA 26+99.77 BK
STA 495+65 AH - STA 645+82.09 BK



EXISTING TYPICAL SECTION SUPERELEVATED

STA 10+00 - STA 14+01.62
STA 20+45.19 - STA 26+01.27
STA 528+00.46 - STA 530+84.24
STA 544+71.63 - STA 549+17.64
STA 558+17.94 - STA 576+74.73
STA 581+58.65 - STA 586+24.77
STA 598+09.56 - STA 601+58.26
STA 603+82.02 - STA 610+37.08
STA 615+08.14 - STA 620+30.4
STA 622+57.64 - STA 628+42.9
STA 631+92.17 - STA 635+33.62



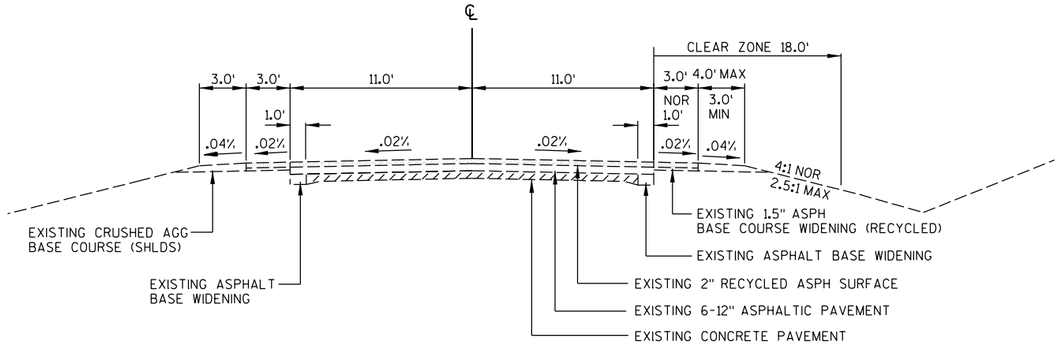
EXISTING TYPICAL SECTION FOR TRUCK LANE

STA 560+73 - STA 605+09.56

ST. CROIX COUNTY
APPROXIMATE DEPTH OF EXISTING
ASPHALTIC BORING TAKEN

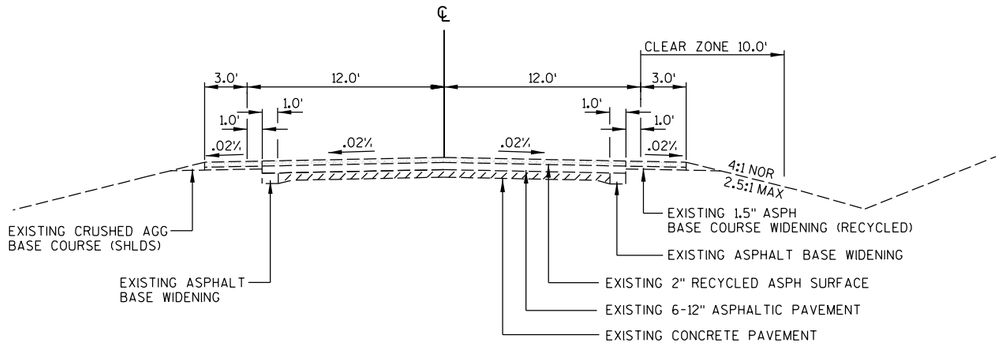
(MILEAGE BASED ON DISTANCE FROM THE EAST COUNTY LINE)

LOCATION (MILES)	DEPTH (INCHES)
.05	11"
.8	12"
1.3	11"
1.7	17"
2.35	11.5"
2.9	14"
3.7	17"
4.2	12"
4.7	13"
5.2	12"



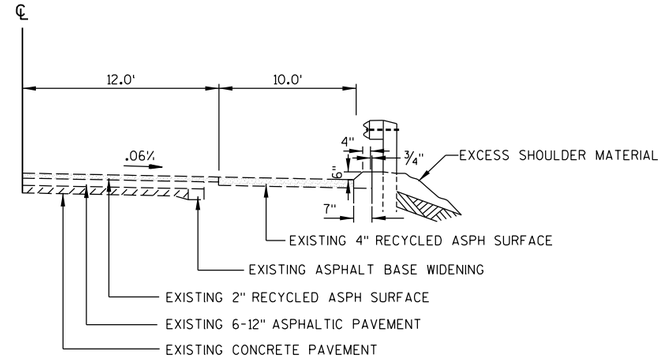
EXISTING TYPICAL SECTION

STA 0+00 - STA 113+37.88
STA 186+65.88 - STA 446+73.38



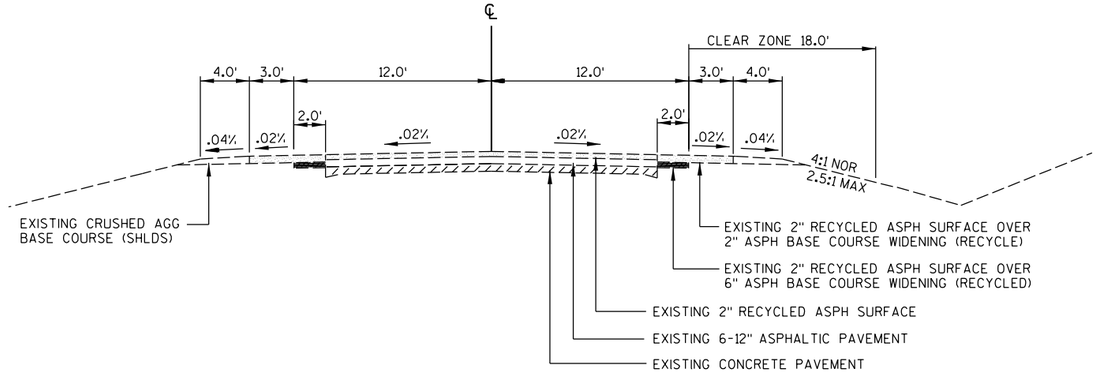
EXISTING TYPICAL SECTION

STA 113+37.88 - STA 186+65.88



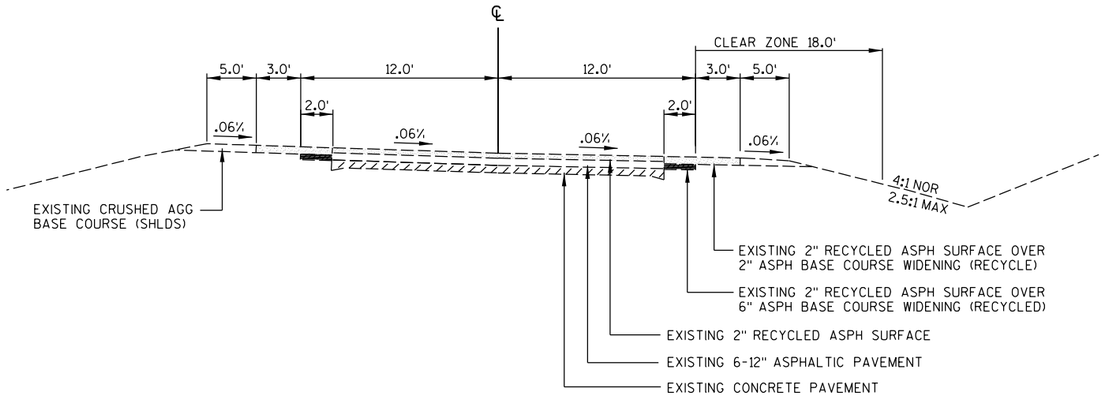
DETAIL OF EXISTING LIP CURB

STA 566+23.3 - STA 571+33.3



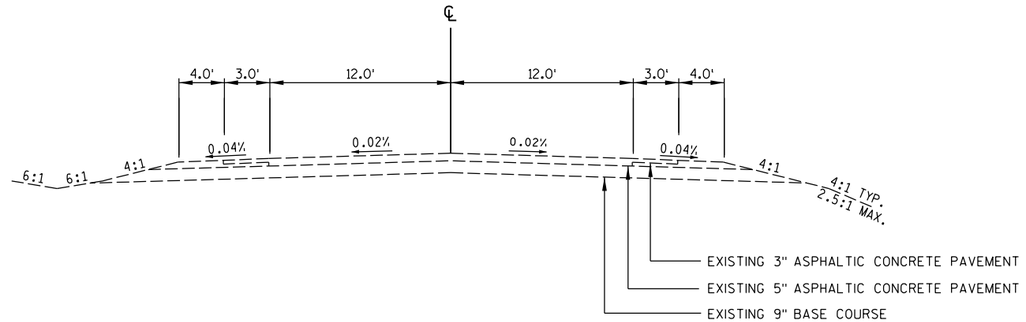
EXISTING TYPICAL SECTION

STA 446+73.38 - STA 523+23.28
STA 537+93.3 - STA 562+39.3



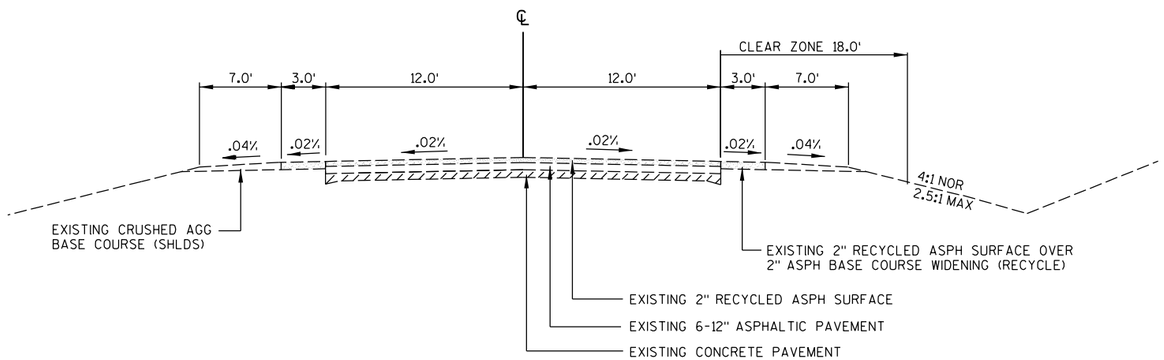
EXISTING TYPICAL SECTION

STA 523+23.28 - STA 537+93.3



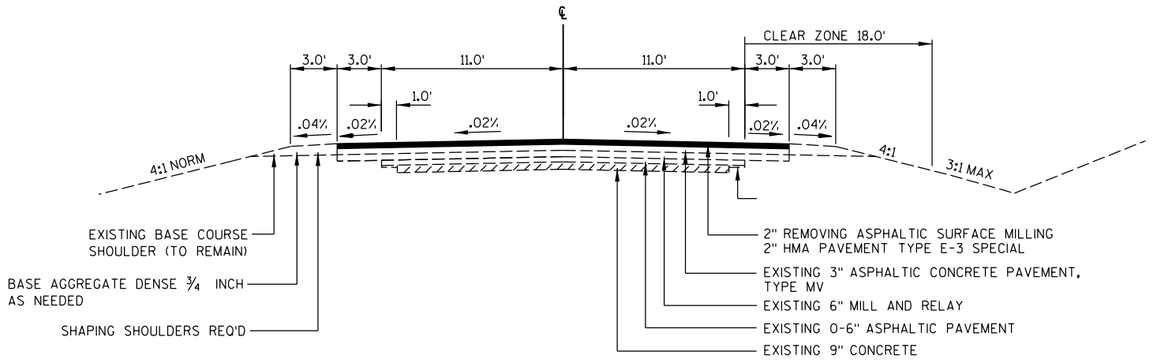
EXISTING TYPICAL SECTION STH 79

STA 1003+63.24 AT STH 79



EXISTING TYPICAL SECTION

STA 562+39.3 - STA 580+00

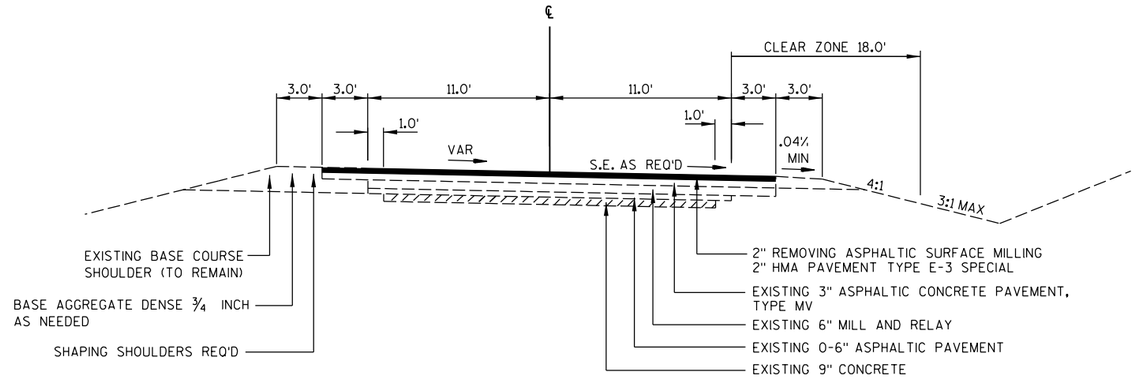


TYPICAL FINISHED SECTION

STA 10+00 - STA 26+99.77 BK
STA 495+65 AH - STA 645+82.09 BK

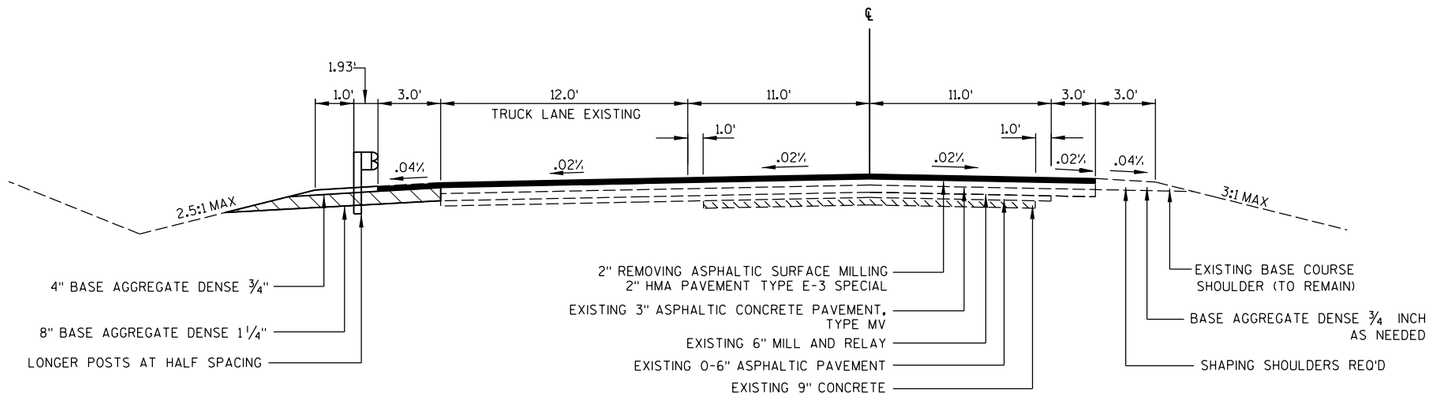
*AT BEAM GUARD LOCATIONS, MINIMUM OF 2" ASPHALT DEPTH TO BE PAVED

*SHOULDERS TO BE PAVED CONCURRENTLY AND INTEGRALLY WITH THE MAINLINE PAVEMENT



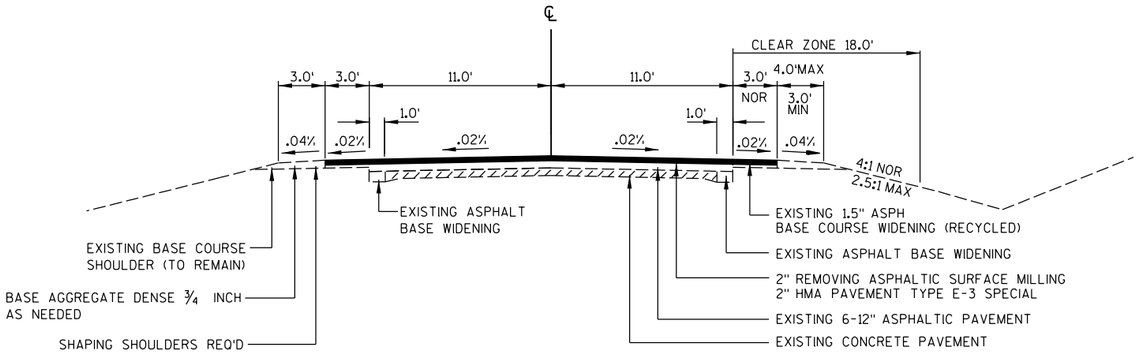
TYPICAL FINISHED SUPERELEVATED SECTION

STA 10+00 - STA 14+01.62
STA 20+45.19 - STA 26+01.27
STA 528+00.46 - STA 530+84.24
STA 544+71.63 - STA 549+17.64
STA 558+17.94 - STA 576+74.73
STA 581+58.65 - STA 586+24.77
STA 598+09.56 - STA 601+58.26
STA 603+82.02 - STA 610+37.08
STA 615+08.14 - STA 620+30.4
STA 622+57.64 - STA 628+42.9
STA 631+92.17 - STA 635+33.62



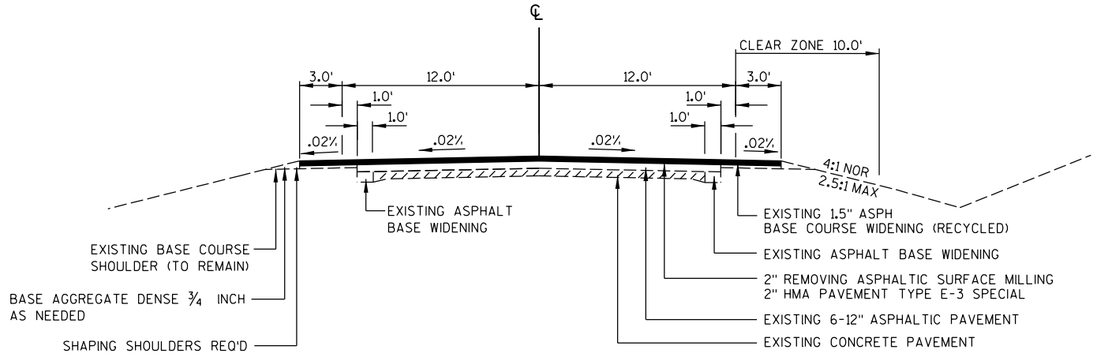
TYPICAL FINISHED SECTION FOR TRUCK LANE

STA 576+21.42 - STA 604+73.57



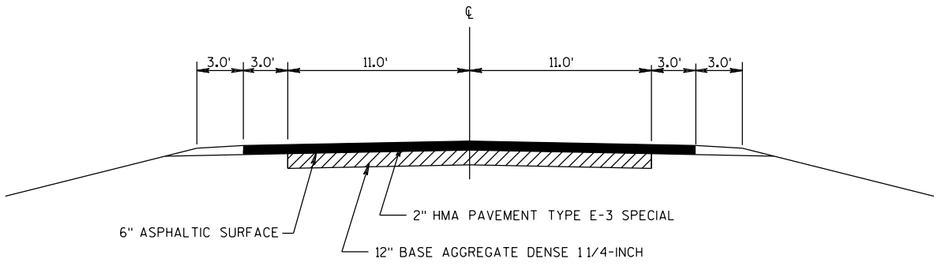
TYPICAL FINISHED SECTION

STA 0+00 - STA 113+37.88
STA 186+65.88 - STA 446+73.38



TYPICAL FINISHED SECTION

STA 113+37.88 - STA 186+65.88

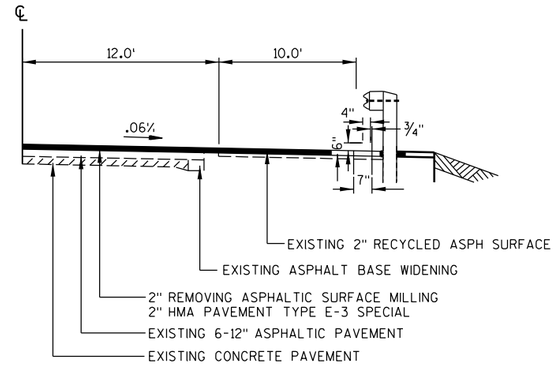


TYPICAL FINISHED SECTION AT PIPE REPLACEMENTS

STA 132+50 - STA 133+50
STA 137+50 - STA 138+00
STA 200+00 - STA 201+00
STA 287+50 - STA 288+00
STA 375+00 - STA 376+00
STA 441+00 - STA 442+00

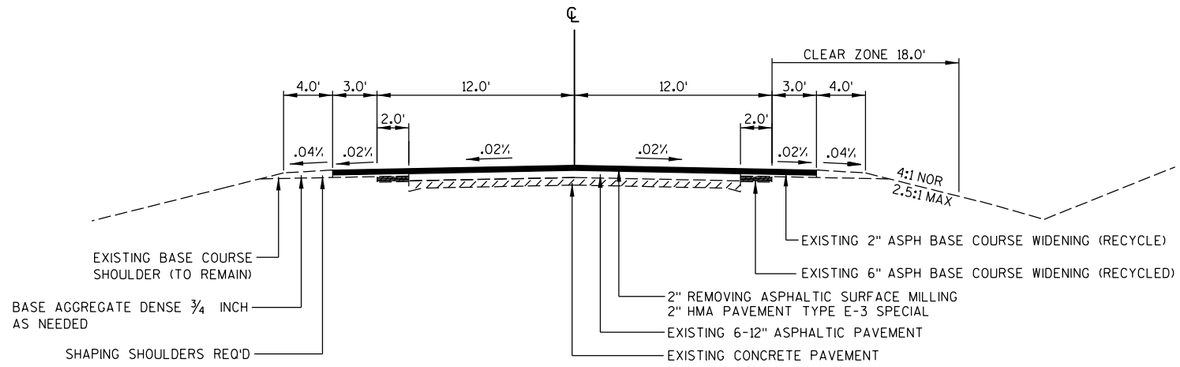
*AT BEAM GUARD LOCATIONS,
MINIMUM OF 2" ASPHALT DEPTH TO BE PAVED

*SHOULDERS TO BE PAVED CONCURRENTLY AND
INTEGRALLY WITH THE MAINLINE PAVEMENT



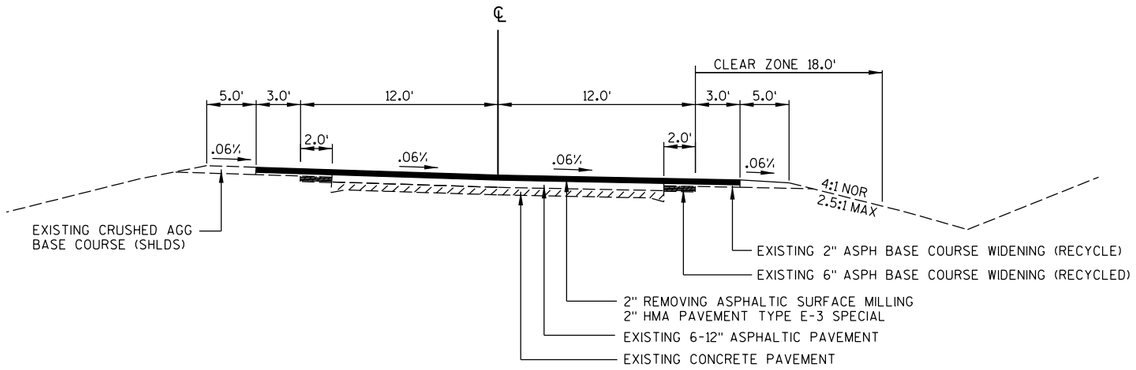
DETAIL OF GUARDRAIL MOW STRIP AND MGS BEAM GUARD

STA 566+23.3 - STA 571+33.3



TYPICAL FINISHED SECTION

STA 446+73.38 - STA 523+23.28
STA 537+93.3 - STA 562+39.3

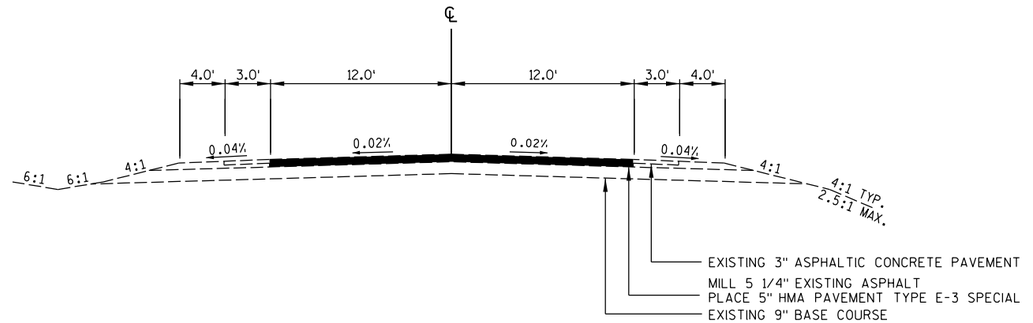


TYPICAL FINISHED SECTION

STA 523+23.28 - STA 537+93.3

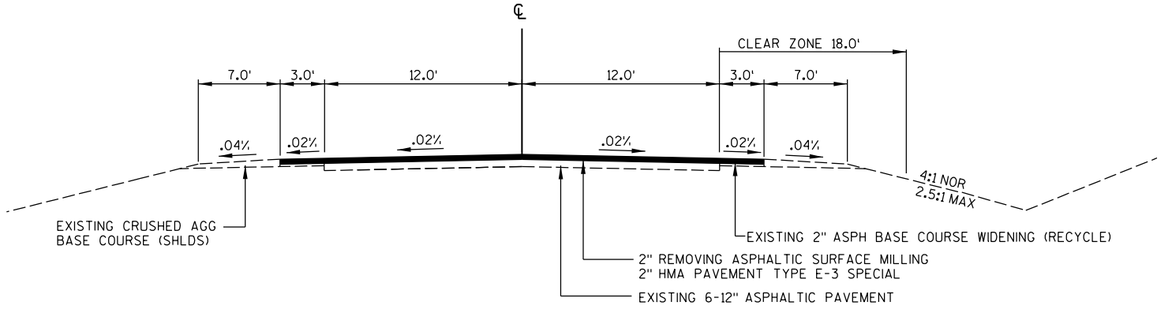
*AT BEAM GUARD LOCATIONS,
MINIMUM OF 2" ASPHALT DEPTH TO BE PAVED

*SHOULDERS TO BE PAVED CONCURRENTLY AND
INTEGRALLY WITH THE MAINLINE PAVEMENT



FINISHED TYPICAL SECTION STH 79

STA 1003+63.24 AT STH 79



TYPICAL FINISHED SECTION

STA 562+39.3 - STA 580+00

STATION	TYPE	LEFT	RIGHT	SHOULDER LEFT	SHOULDER RIGHT
22+20.24	Sh_End NC	-0.02	-0.02	-0.04	-0.04
22+71.24	End NC	-0.02	-0.02	-0.02	-0.04
23+22.24	Zero Super	0	-0.02	0	-0.04
23+73.24	Rev. Crown	0.02	-0.02	0.02	-0.04
24+24.24	Sh. Trans.	0.04	-0.04	0.04	-0.04
24+58.24	Begin FS	0.0533	-0.0533	0.0533	-0.0533
31+36.90	End FS	0.0533	-0.0533	0.0533	-0.0533
31+70.90	Sh. Trans.	0.04	-0.04	0.04	-0.04
32+21.90	Rev. Crown	0.02	-0.02	0.02	-0.04
32+72.90	Zero Super	0	-0.02	0	-0.04
33+23.90	Begin NC	-0.02	-0.02	-0.02	-0.04
33+74.90	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
68+96.94	Sh_End NC	-0.02	-0.02	-0.04	-0.04
69+48.14	End NC	-0.02	-0.02	-0.04	-0.02
69+99.34	Zero Super	-0.02	0	-0.04	0
70+50.54	Rev. Crown	-0.02	0.02	-0.04	0.02
71+01.74	Sh. Trans.	-0.04	0.04	-0.04	0.04
71+27.34	Begin FS	-0.05	0.05	-0.05	0.05
79+97.05	End FS	-0.05	0.05	-0.05	0.05
80+22.65	Sh. Trans.	-0.04	0.04	-0.04	0.04
80+73.85	Rev. Crown	-0.02	0.02	-0.04	0.02
81+25.05	Zero Super	-0.02	0	-0.04	0
81+76.25	Begin NC	-0.02	-0.02	-0.04	-0.02
82+27.45	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
86+49.44	Sh_End NC	-0.02	-0.02	-0.04	-0.04
87+00.44	End NC	-0.02	-0.02	-0.02	-0.04
87+51.44	Zero Super	0	-0.02	0	-0.04
88+02.44	Rev. Crown	0.02	-0.02	0.02	-0.04
88+53.44	Sh. Trans.	0.04	-0.04	0.04	-0.04
89+04.44	Begin FS	0.06	-0.06	0.06	-0.06
90+87.51	End FS	0.06	-0.06	0.06	-0.06
91+38.51	Sh. Trans.	0.04	-0.04	0.04	-0.04
91+89.51	Rev. Crown	0.02	-0.02	0.02	-0.04
93+16.06	Rev. Crown	0.02	-0.02	0.02	-0.04
93+62.93	Begin FS	0.0383	-0.0383	0.0383	-0.04
95+15.14	End FS	0.0383	-0.0383	0.0383	-0.04
95+62.01	Rev. Crown	0.02	-0.02	0.02	-0.04
96+13.14	Zero Super	0	-0.02	0	-0.04
96+64.27	Begin NC	-0.02	-0.02	-0.02	-0.04
97+15.40	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
99+95.60	Sh_End NC	-0.02	-0.02	-0.04	-0.04
100+46.60	End NC	-0.02	-0.02	-0.02	-0.04
100+97.60	Zero Super	0	-0.02	0	-0.04
101+48.60	Rev. Crown	0.02	-0.02	0.02	-0.04
101+99.60	Sh. Trans.	0.04	-0.04	0.04	-0.04
102+50.60	Begin FS	0.06	-0.06	0.06	-0.06
103+73.58	End FS	0.06	-0.06	0.06	-0.06
104+24.58	Sh. Trans.	0.04	-0.04	0.04	-0.04
104+75.58	Rev. Crown	0.02	-0.02	0.02	-0.04
105+26.58	Zero Super	0	-0.02	0	-0.04
105+77.58	Begin NC	-0.02	-0.02	-0.02	-0.04
106+28.58	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
117+71.59	Sh_End NC	-0.02	-0.02	-0.04	-0.04
118+22.59	End NC	-0.02	-0.02	-0.04	-0.02
118+73.59	Zero Super	-0.02	0	-0.04	0
119+24.59	Rev. Crown	-0.02	0.02	-0.04	0.02
119+75.59	Sh. Trans.	-0.04	0.04	-0.04	0.04
120+26.59	Begin FS	-0.06	0.06	-0.06	0.06
123+05.30	End FS	-0.06	0.06	-0.06	0.06
123+56.30	Sh. Trans.	-0.04	0.04	-0.04	0.04
124+07.30	Rev. Crown	-0.02	0.02	-0.04	0.02
124+58.30	Zero Super	-0.02	0	-0.04	0
125+09.30	Begin NC	-0.02	-0.02	-0.04	-0.02
125+60.30	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04

STATION	TYPE	LEFT	RIGHT	SHOULDER LEFT	SHOULDER RIGHT
137+14.59	Sh_End NC	-0.02	-0.02	-0.04	-0.04
137+65.65	End NC	-0.02	-0.02	-0.02	-0.04
138+16.72	Zero Super	0	-0.02	0	-0.04
138+67.79	Rev. Crown	0.02	-0.02	0.02	-0.04
139+18.86	Sh. Trans.	0.04	-0.04	0.04	-0.04
139+65.39	Begin FS	0.0582	-0.0582	0.0582	-0.0582
140+54.95	End FS	0.0582	-0.0582	0.0582	-0.0582
141+01.48	Sh. Trans.	0.04	-0.04	0.04	-0.04
141+52.55	Rev. Crown	0.02	-0.02	0.02	-0.04
142+03.62	Zero Super	0	-0.02	0	-0.04
142+54.69	Begin NC	-0.02	-0.02	-0.02	-0.04
143+05.76	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
150+07.05	Sh_End NC	-0.02	-0.02	-0.04	-0.04
150+58.04	End NC	-0.02	-0.02	-0.02	-0.04
151+09.03	Zero Super	0	-0.02	0	-0.04
151+60.02	Rev. Crown	0.02	-0.02	0.02	-0.04
152+11.01	Sh. Trans.	0.04	-0.04	0.04	-0.04
152+50.53	Begin FS	0.0555	-0.0555	0.0555	-0.0555
153+33.96	End FS	0.0555	-0.0555	0.0555	-0.0555
153+73.48	Sh. Trans.	0.04	-0.04	0.04	-0.04
154+24.47	Rev. Crown	0.02	-0.02	0.02	-0.04
154+75.46	Zero Super	0	-0.02	0	-0.04
155+26.45	Begin NC	-0.02	-0.02	-0.02	-0.04
155+77.44	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
195+59.79	Sh_End NC	-0.02	-0.02	-0.04	-0.04
196+10.79	End NC	-0.02	-0.02	-0.02	-0.04
196+61.79	Zero Super	0	-0.02	0	-0.04
197+12.79	Rev. Crown	0.02	-0.02	0.02	-0.04
197+63.79	Sh. Trans.	0.04	-0.04	0.04	-0.04
198+14.79	Begin FS	0.06	-0.06	0.06	-0.06
203+03.18	End FS	0.06	-0.06	0.06	-0.06
203+54.18	Sh. Trans.	0.04	-0.04	0.04	-0.04
204+05.18	Rev. Crown	0.02	-0.02	0.02	-0.04
204+56.18	Zero Super	0	-0.02	0	-0.04
205+07.18	Begin NC	-0.02	-0.02	-0.02	-0.04
205+58.18	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
285+73.74	Sh_End NC	-0.02	-0.02	-0.04	-0.04
286+24.84	End NC	-0.02	-0.02	-0.04	-0.02
286+75.94	Zero Super	-0.02	0	-0.04	0
287+27.04	Rev. Crown	-0.02	0.02	-0.04	0.02
287+78.14	Sh. Trans.	-0.04	0.04	-0.04	0.04
288+02.25	Begin FS	-0.0494	0.0494	-0.0494	0.0494
294+33.12	End FS	-0.0494	0.0494	-0.0494	0.0494
294+57.23	Sh. Trans.	-0.04	0.04	-0.04	0.04
295+08.33	Rev. Crown	-0.02	0.02	-0.04	0.02
295+59.43	Zero Super	-0.02	0	-0.04	0
296+10.53	Begin NC	-0.02	-0.02	-0.04	-0.02
296+61.63	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
350+02.36	Sh_End NC	-0.02	-0.02	-0.04	-0.04
350+53.42	End NC	-0.02	-0.02	-0.02	-0.04
351+04.48	Zero Super	0	-0.02	0	-0.04
351+55.53	Rev. Crown	0.02	-0.02	0.02	-0.04
352+06.59	Sh. Trans.	0.04	-0.04	0.04	-0.04
352+19.92	Begin FS	0.0452	-0.0452	0.0452	-0.0452
359+57.24	End FS	0.0452	-0.0452	0.0452	-0.0452
359+70.57	Sh. Trans.	0.04	-0.04	0.04	-0.04
360+21.62	Rev. Crown	0.02	-0.02	0.02	-0.04
360+72.68	Zero Super	0	-0.02	0	-0.04
361+23.74	Begin NC	-0.02	-0.02	-0.02	-0.04
361+74.79	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
406+43.63	Sh_End NC	-0.02	-0.02	-0.04	-0.04
406+94.79	End NC	-0.02	-0.02	-0.04	-0.02
407+45.95	Zero Super	-0.02	0	-0.04	0
407+97.11	Rev. Crown	-0.02	0.02	-0.04	0.02

STATION	TYPE	LEFT	RIGHT	SHOULDER LEFT	SHOULDER RIGHT
408+48.27	Sh. Trans.	-0.04	0.04	-0.04	0.04
408+90.64	Begin FS	-0.0566	0.0566	-0.0566	0.0566
414+90.64	End FS	-0.0566	0.0566	-0.0566	0.0566
415+33.01	Sh. Trans.	-0.04	0.04	-0.04	0.04
415+84.17	Rev. Crown	-0.02	0.02	-0.04	0.02
416+35.33	Zero Super	-0.02	0	-0.04	0
416+86.49	Begin NC	-0.02	-0.02	-0.04	-0.02
417+37.65	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
419+21.76	Sh_End NC	-0.02	-0.02	-0.04	-0.04
419+72.87	End NC	-0.02	-0.02	-0.02	-0.04
420+23.98	Zero Super	0	-0.02	0	-0.04
420+75.09	Rev. Crown	0.02	-0.02	0.02	-0.04
421+26.20	Sh. Trans.	0.04	-0.04	0.04	-0.04
421+29.78	Begin FS	0.0414	-0.0414	0.0414	-0.0414
428+26.97	End FS	0.0414	-0.0414	0.0414	-0.0414
428+30.55	Sh. Trans.	0.04	-0.04	0.04	-0.04
428+81.66	Rev. Crown	0.02	-0.02	0.02	-0.04
429+32.77	Zero Super	0	-0.02	0	-0.04
429+83.88	Begin NC	-0.02	-0.02	-0.02	-0.04
430+34.99	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
499+02.22	Sh_End NC	-0.02	-0.02	-0.04	-0.04
499+53.45	End NC	-0.02	-0.02	-0.04	-0.02
500+04.67	Zero Super	-0.02	0	-0.04	0
500+55.90	Rev. Crown	-0.02	0.02	-0.04	0.02
501+03.92	Begin FS	-0.0388	0.0388	-0.04	0.0388
508+70.27	End FS	-0.0388	0.0388	-0.04	0.0388
509+18.29	Rev. Crown	-0.02	0.02	-0.04	0.02
509+69.52	Zero Super	-0.02	0	-0.04	0
510+20.74	Begin NC	-0.02	-0.02	-0.04	-0.02
510+71.97	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
523+29.18	Sh_End NC	-0.02	-0.02	-0.04	-0.04
523+80.18	End NC	-0.02	-0.02	-0.02	-0.04
524+31.18	Zero Super	0	-0.02	0	-0.04
524+82.18	Rev. Crown	0.02	-0.02	0.02	-0.04
525+33.18	Sh. Trans.	0.04	-0.04	0.04	-0.04
525+84.18	Begin FS	0.06	-0.06	0.06	-0.06
536+62.99	End FS	0.06	-0.06	0.06	-0.06
537+13.99	Sh. Trans.	0.04	-0.04	0.04	-0.04
537+64.99	Rev. Crown	0.02	-0.02	0.02	-0.04
538+15.99	Zero Super	0	-0.02	0	-0.04
538+66.99	Begin NC	-0.02	-0.02	-0.02	-0.04
539+17.99	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
546+93.88	Sh_End NC	-0.02	-0.02	-0.04	-0.04
547+44.88	End NC	-0.02	-0.02	-0.04	-0.02
547+95.88	Zero Super	-0.02	0	-0.04	0
548+46.88	Rev. Crown	-0.02	0.02	-0.04	0.02
548+97.88	Sh. Trans.	-0.04	0.04	-0.04	0.04
549+48.88	Begin FS	-0.06	0.06	-0.06	0.06
557+30.47	End FS	-0.06	0.06	-0.06	0.06
557+81.47	Sh. Trans.	-0.04	0.04	-0.04	0.04
558+32.47	Rev. Crown	-0.02	0.02	-0.04	0.02
558+83.47	Zero Super	-0.02	0	-0.04	0
559+34.47	Begin NC	-0.02	-0.02	-0.04	-0.02
559+85.47	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
559+92.34	Sh_End NC	-0.02	-0.02	-0.04	-0.04
560+43.48	End NC	-0.02	-0.02	-0.02	-0.04
560+94.63	Zero Super	0	-0.02	0	-0.04
561+45.77	Rev. Crown	0.02	-0.02	0.02	-0.04
561+96.91	Sh. Trans.	0.04	-0.04	0.04	-0.04
562+38.94	Begin FS	0.0564	-0.0564	0.0564	-0.0564
570+83.33	End FS	0.0564	-0.0564	0.0564	-0.0564
571+25.36	Sh. Trans.	0.04	-0.04	0.04	-0.04
571+76.50	Rev. Crown	0.02	-0.02	0.02	-0.04
572+27.64	Zero Super	0	-0.02	0	-0.04
572+78.78	Begin NC	-0.02	-0.02	-0.02	-0.04
573+29.92	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04

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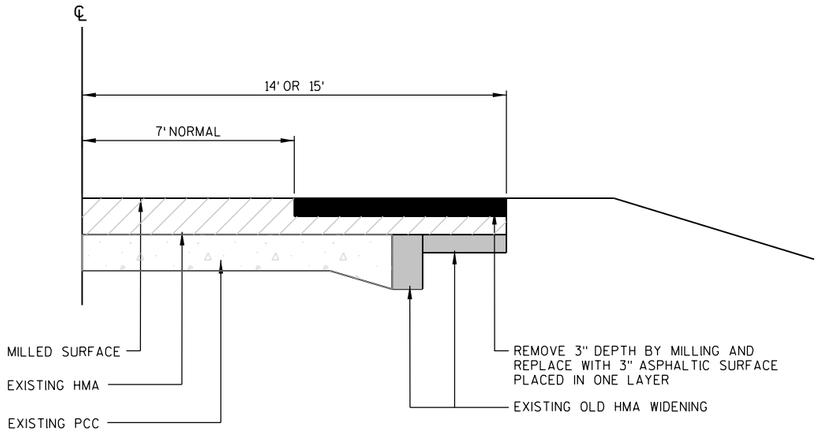
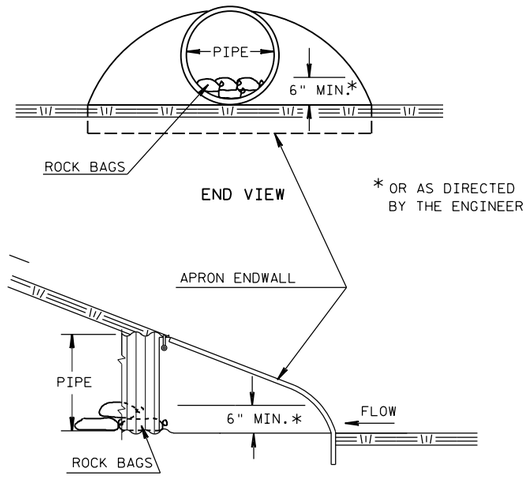
STATION	TYPE	LEFT	RIGHT	SHOULDER LEFT	SHOULDER RIGHT
0+82.57	Sh. Trans.	-0.04	0.04	-0.04	0.04
1+07.51	Begin FS	-0.0498	0.0498	-0.0498	0.0498
13+59.19	End FS	-0.0498	0.0498	-0.0498	0.0498
13+84.13	Sh. Trans.	-0.04	0.04	-0.04	0.04
14+35.29	Rev. Crown	-0.02	0.02	-0.04	0.02
14+86.44	Zero Super	-0.02	0	-0.04	0
15+37.60	Begin NC	-0.02	-0.02	-0.04	-0.02
15+88.76	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
18+57.76	Sh_End NC	-0.02	-0.02	-0.04	-0.04
19+08.94	End NC	-0.02	-0.02	-0.02	-0.04
19+60.12	Zero Super	0	-0.02	0	-0.04
20+11.30	Rev. Crown	0.02	-0.02	0.02	-0.04
20+62.47	Sh. Trans.	0.04	-0.04	0.04	-0.04
20+87.74	Begin FS	0.0499	-0.0499	0.0499	-0.0499
25+58.72	End FS	0.0499	-0.0499	0.0499	-0.0499
25+83.99	Sh. Trans.	0.04	-0.04	0.04	-0.04
26+35.17	Rev. Crown	0.02	-0.02	0.02	-0.04
26+86.35	Zero Super	0	-0.02	0	-0.04
496+02.76(2)	Begin NC	-0.02	-0.02	-0.02	-0.04
496+53.94(2)	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
525+96.96(2)	Sh_End NC	-0.02	-0.02	-0.04	-0.04
526+48.06(2)	End NC	-0.02	-0.02	-0.02	-0.04
526+99.15(2)	Zero Super	0	-0.02	0	-0.04
527+50.24(2)	Rev. Crown	0.02	-0.02	0.02	-0.04
528+01.34(2)	Sh. Trans.	0.04	-0.04	0.04	-0.04
528+51.14(2)	Begin FS	0.0595	-0.0595	0.0595	-0.0595
530+33.57(2)	End FS	0.0595	-0.0595	0.0595	-0.0595
530+83.37(2)	Sh. Trans.	0.04	-0.04	0.04	-0.04
531+34.46(2)	Rev. Crown	0.02	-0.02	0.02	-0.04
531+85.56(2)	Zero Super	0	-0.02	0	-0.04
532+36.65(2)	Begin NC	-0.02	-0.02	-0.02	-0.04
532+87.74(2)	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
542+80.38(2)	Sh_End NC	-0.02	-0.02	-0.04	-0.04
543+31.47(2)	End NC	-0.02	-0.02	-0.04	-0.02
543+82.56(2)	Zero Super	-0.02	0	-0.04	0
544+33.64(2)	Rev. Crown	-0.02	0.02	-0.04	0.02
544+84.73(2)	Sh. Trans.	-0.04	0.04	-0.04	0.04
545+16.18(2)	Begin FS	-0.0523	0.0523	-0.0523	0.0523
548+73.09(2)	End FS	-0.0523	0.0523	-0.0523	0.0523
549+04.54(2)	Sh. Trans.	-0.04	0.04	-0.04	0.04
549+55.63(2)	Rev. Crown	-0.02	0.02	-0.04	0.02
550+06.71(2)	Zero Super	-0.02	0	-0.04	0
550+57.80(2)	Begin NC	-0.02	-0.02	-0.04	-0.02
551+08.89(2)	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
556+50.68(2)	Sh_End NC	-0.02	-0.02	-0.04	-0.04
557+01.78(2)	End NC	-0.02	-0.02	-0.04	-0.02
557+52.88(2)	Zero Super	-0.02	0	-0.04	0
558+03.98(2)	Rev. Crown	-0.02	0.02	-0.04	0.02
558+50.49(2)	Begin FS	-0.0382	0.0382	-0.04	0.0382
576+42.19(2)	End FS	-0.0382	0.0382	-0.04	0.0382
576+88.70(2)	Rev. Crown	-0.02	0.02	-0.04	0.02
577+39.80(2)	Zero Super	-0.02	0	-0.04	0
577+90.90(2)	Begin NC	-0.02	-0.02	-0.04	-0.02
578+42.00(2)	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04

STATION	TYPE	LEFT	RIGHT	SHOULDER LEFT	SHOULDER RIGHT
579+54.66(2)	Sh_End NC	-0.02	-0.02	-0.04	-0.04
580+05.66(2)	End NC	-0.02	-0.02	-0.02	-0.04
580+56.66(2)	Zero Super	0	-0.02	0	-0.04
581+07.66(2)	Rev. Crown	0.02	-0.02	0.02	-0.04
581+58.66(2)	Sh. Trans.	0.04	-0.04	0.04	-0.04
582+09.66(2)	Begin FS	0.06	-0.06	0.06	-0.06
585+73.76(2)	End FS	0.06	-0.06	0.06	-0.06
586+24.76(2)	Sh. Trans.	0.04	-0.04	0.04	-0.04
586+75.76(2)	Rev. Crown	0.02	-0.02	0.02	-0.04
587+26.76(2)	Zero Super	0	-0.02	0	-0.04
587+77.76(2)	Begin NC	-0.02	-0.02	-0.02	-0.04
588+28.76(2)	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
596+05.57(2)	Sh_End NC	-0.02	-0.02	-0.04	-0.04
596+56.57(2)	End NC	-0.02	-0.02	-0.02	-0.04
597+07.57(2)	Zero Super	0	-0.02	0	-0.04
597+58.57(2)	Rev. Crown	0.02	-0.02	0.02	-0.04
598+09.57(2)	Sh. Trans.	0.04	-0.04	0.04	-0.04
598+60.57(2)	Begin FS	0.06	-0.06	0.06	-0.06
601+07.25(2)	End FS	0.06	-0.06	0.06	-0.06
601+58.25(2)	Sh. Trans.	0.04	-0.04	0.04	-0.04
602+09.25(2)	Rev. Crown	0.02	-0.02	0.02	-0.04
603+31.03(2)	Rev. Crown	-0.02	0.02	-0.04	0.02
603+82.03(2)	Sh. Trans.	-0.04	0.04	-0.04	0.04
604+33.03(2)	Begin FS	-0.06	0.06	-0.06	0.06
609+86.07(2)	End FS	-0.06	0.06	-0.06	0.06
610+37.07(2)	Sh. Trans.	-0.04	0.04	-0.04	0.04
610+88.07(2)	Rev. Crown	-0.02	0.02	-0.04	0.02
611+39.07(2)	Zero Super	-0.02	0	-0.04	0
611+90.07(2)	Begin NC	-0.02	-0.02	-0.04	-0.02
612+41.07(2)	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04
613+08.16(2)	Sh_End NC	-0.02	-0.02	-0.04	-0.04
613+59.35(2)	End NC	-0.02	-0.02	-0.02	-0.04
614+10.53(2)	Zero Super	0	-0.02	0	-0.04
614+61.72(2)	Rev. Crown	0.02	-0.02	0.02	-0.04
615+12.91(2)	Sh. Trans.	0.04	-0.04	0.04	-0.04
615+56.96(2)	Begin FS	0.0572	-0.0572	0.0572	-0.0572
619+81.59(2)	End FS	0.0572	-0.0572	0.0572	-0.0572
620+25.64(2)	Sh. Trans.	0.04	-0.04	0.04	-0.04
620+76.83(2)	Rev. Crown	0.02	-0.02	0.02	-0.04
622+07.19(2)	Rev. Crown	-0.02	0.02	-0.04	0.02
622+58.26(2)	Sh. Trans.	-0.04	0.04	-0.04	0.04
623+08.42(2)	Begin FS	-0.0596	0.0596	-0.0596	0.0596
627+92.13(2)	End FS	-0.0596	0.0596	-0.0596	0.0596
628+42.29(2)	Sh. Trans.	-0.04	0.04	-0.04	0.04
628+93.36(2)	Rev. Crown	-0.02	0.02	-0.04	0.02
631+43.59(2)	Rev. Crown	-0.02	0.02	-0.04	0.02
631+94.71(2)	Sh. Trans.	-0.04	0.04	-0.04	0.04
632+42.04(2)	Begin FS	-0.0585	0.0585	-0.0585	0.0585
634+83.76(2)	End FS	-0.0585	0.0585	-0.0585	0.0585
635+31.09(2)	Sh. Trans.	-0.04	0.04	-0.04	0.04
635+82.20(2)	Rev. Crown	-0.02	0.02	-0.04	0.02
636+33.32(2)	Zero Super	-0.02	0	-0.04	0
636+84.43(2)	Begin NC	-0.02	-0.02	-0.04	-0.02
637+35.54(2)	Sh_Begin NC	-0.02	-0.02	-0.04	-0.04



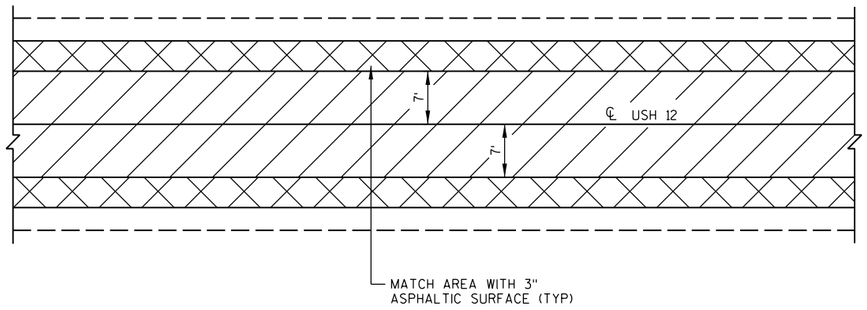
ASPHALTIC SURFACE PARTIAL DEPTH REPAIR

TO BE PERFORMED AFTER 2" SURFACE MILL HAS BEEN COMPLETE.
INSTALL AT SETLLEMENT LOCATIONS TO BE VERIFIED IN THE FIELD.



SIDE VIEW

CULVERT PIPE CHECKS



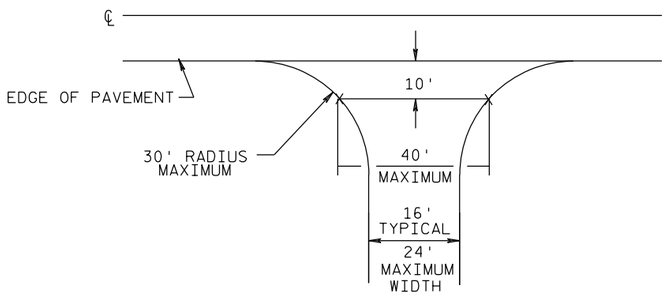
INITIAL 2" REMOVING ASPHALTIC SURFACE MILLING

INITIAL 2" REMOVING ASPHALTIC SURFACE MILLING
3" ADDITIONAL REMOVING ASPHALTIC SURFACE MILLING

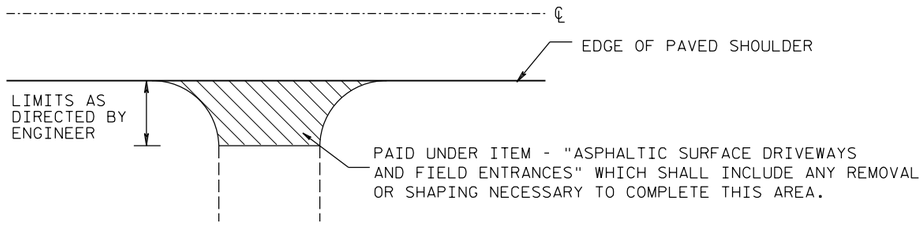
ASPHALTIC SURFACE PARTIAL DEPTH REPAIR

TO BE PERFORMED AFTER 2" SURFACE MILL HAS BEEN COMPLETE.
INSTALL AT SETLLEMENT LOCATIONS TO BE VERIFIED IN THE FIELD.

2

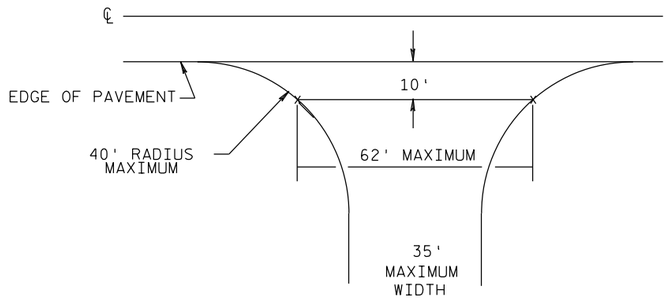


TYPICAL DRIVEWAY DETAIL (NON-COMMERCIAL RURAL)

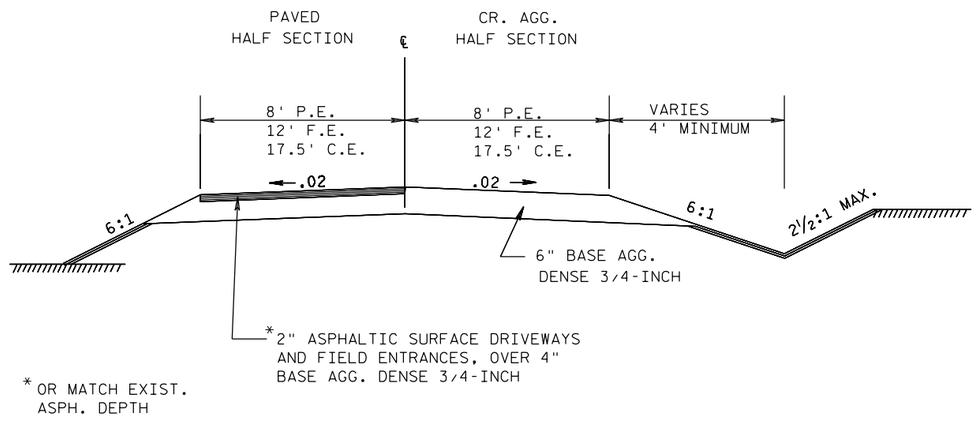


ANY ADDITIONAL BASE AGG. DENSE REQ'D SHALL BE PAID
UNDER ITEM - "BASE AGGREGATE DENSE 3/4-INCH"

RURAL DRIVEWAY DETAIL - ASPHALT

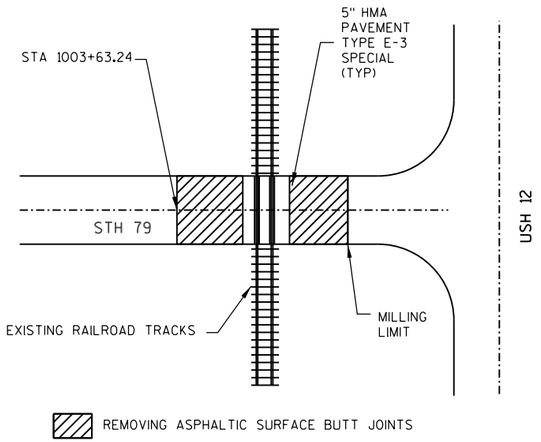


TYPICAL DRIVEWAY DETAIL (COMMERCIAL RURAL)

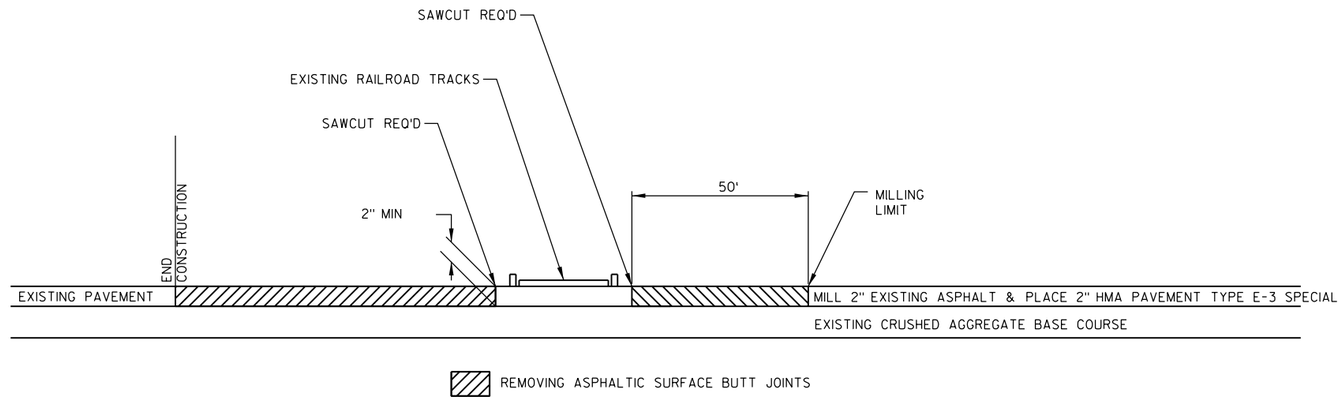


TYPICAL SECTION FOR PRIVATE ENTRANCES

NOTE:
DRIVEWAY PROFILES NOT EXPECTED TO EXCEED
10%. PLACE LOW POINT OF DRIVEWAY PROFILE
OVER DITCH FLOW LINE.

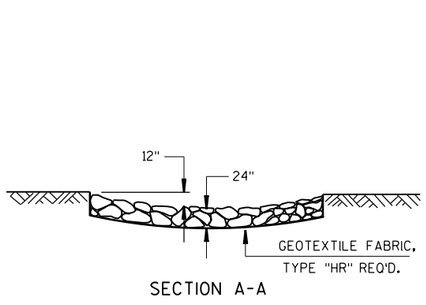


DETAIL OF ASPHALT REMOVAL/REPLACEMENT AT RAILROAD CROSSING

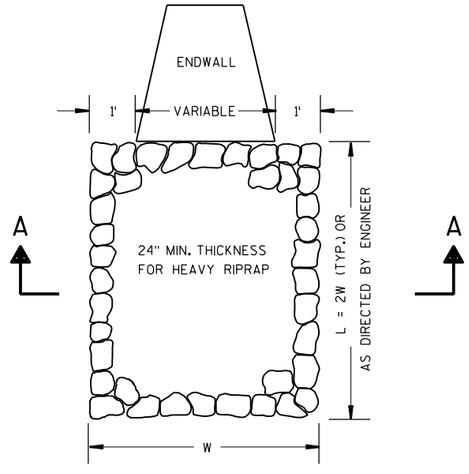


DETAIL OF BUTTED JOINT AT RAILROAD CROSSING

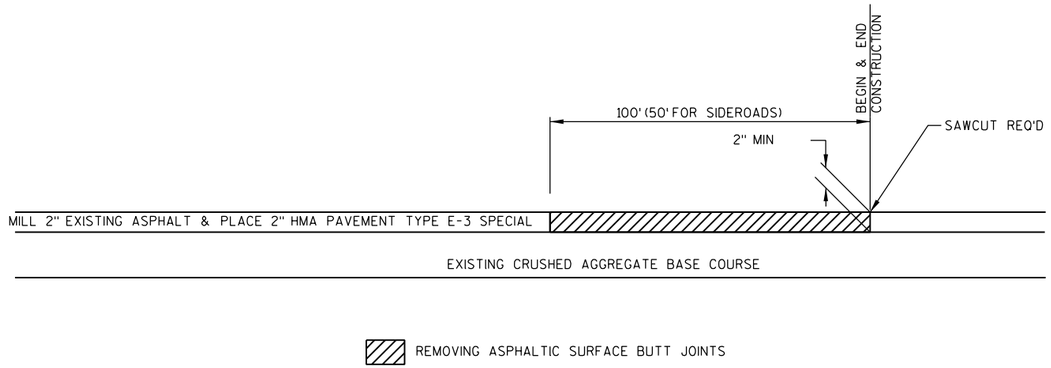
STA 1003+63.24 AT STH 79



SECTION A-A



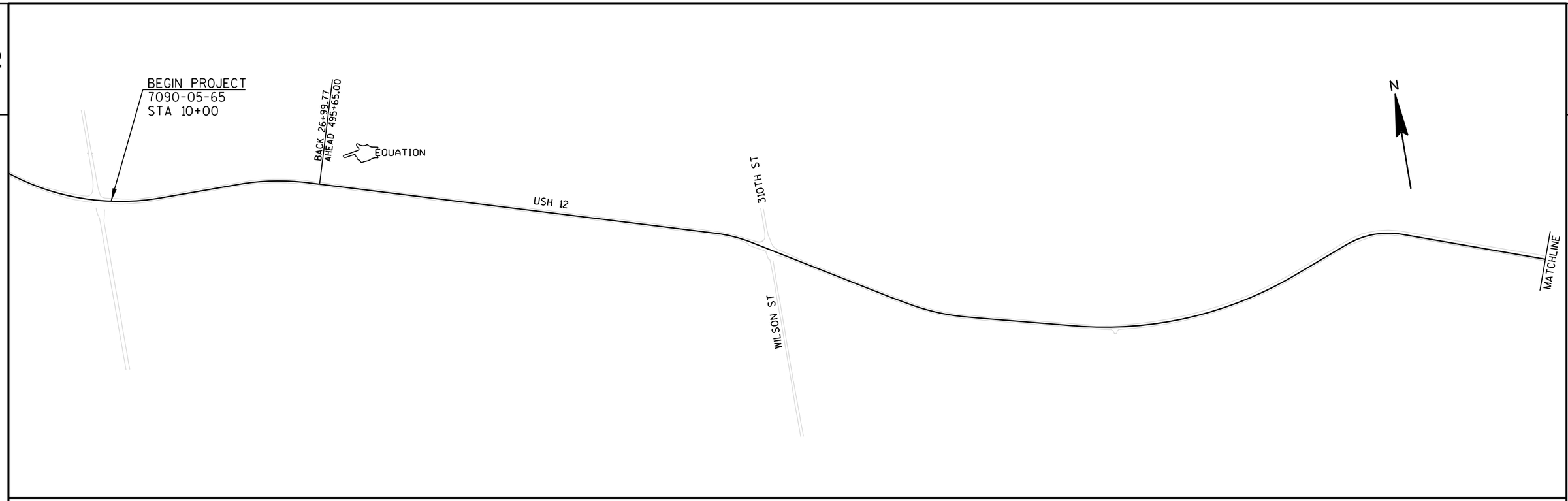
HEAVY RIPRAP TREATMENT AT CULVERTS

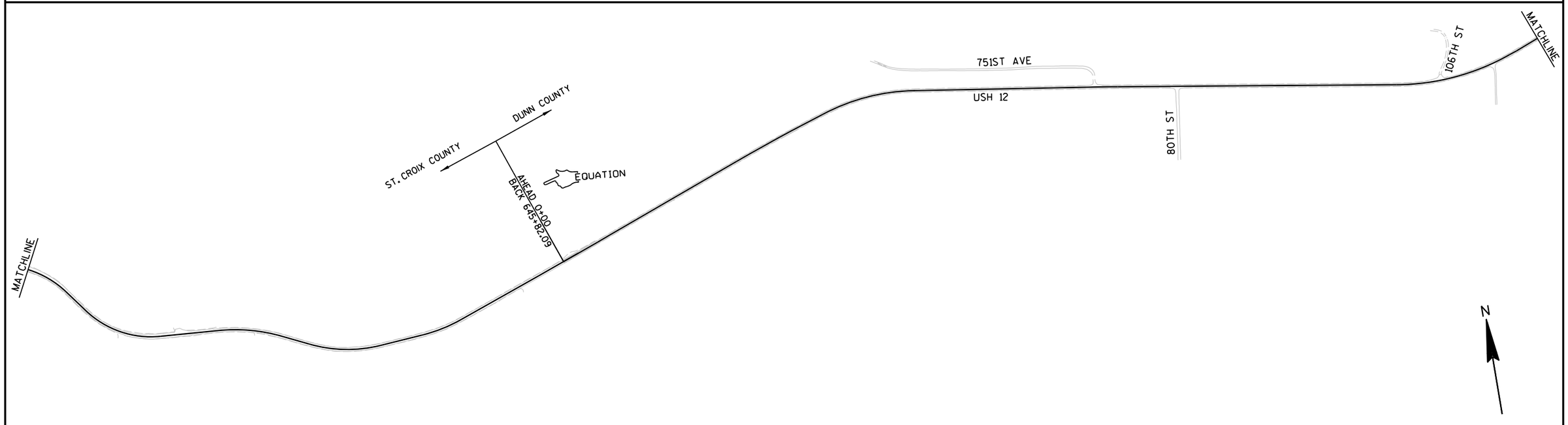


DETAIL OF BUTTED JOINT

STA 10+00
STA 580+00
SIDEROADS

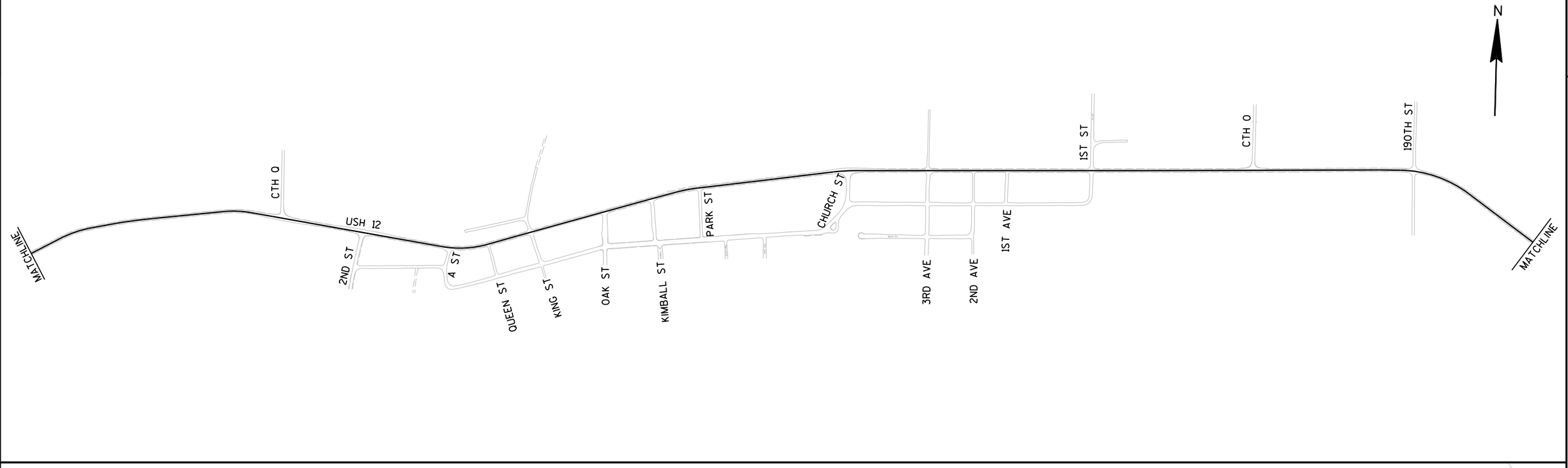
2





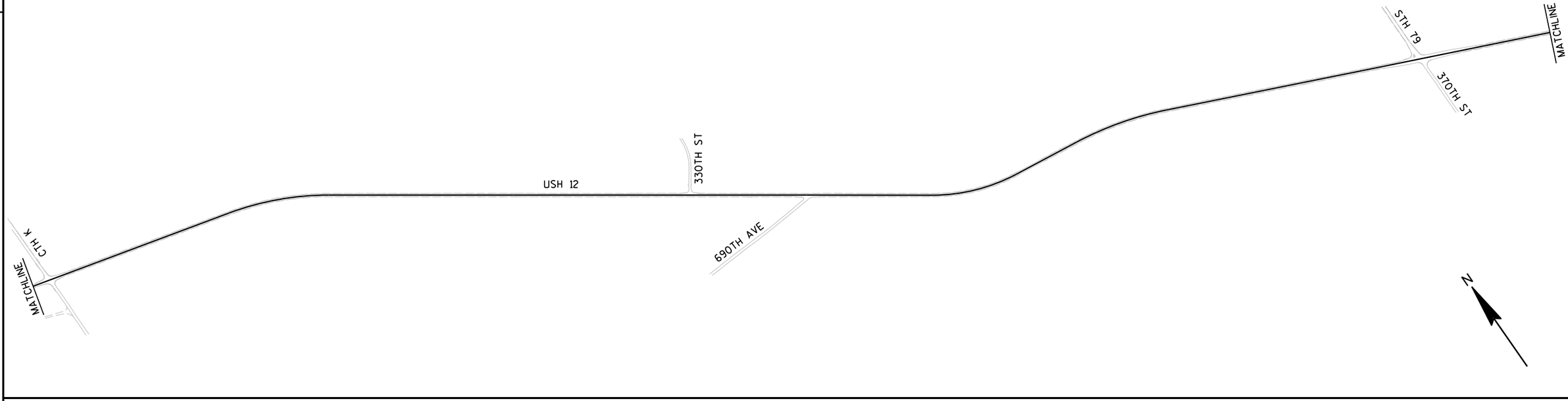
PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST. CROIX AND DUNN	PROJECT OVERVIEW	SHEET 14	E

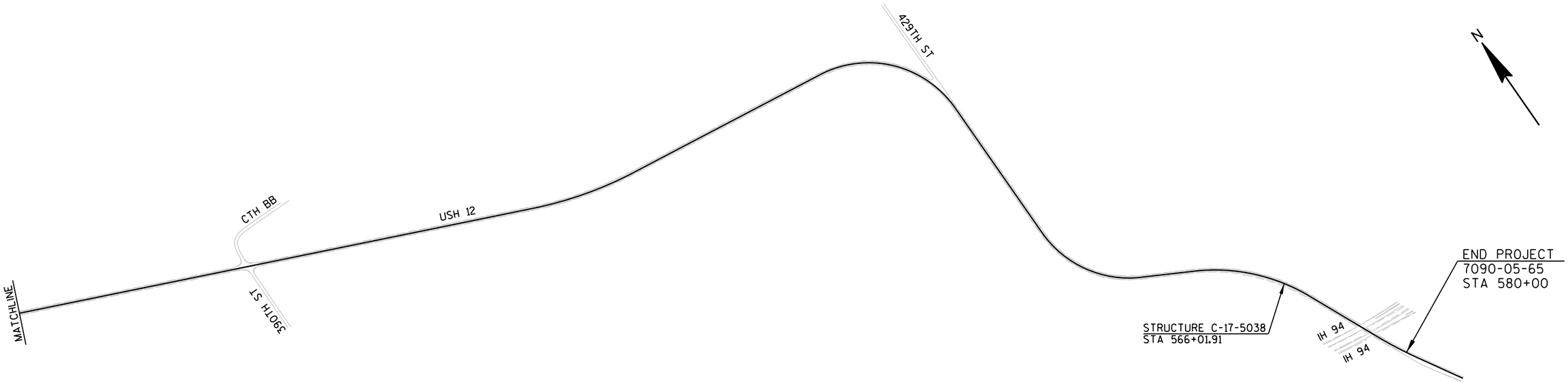
2



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PROJECT OVERVIEW	SHEET 15	E

2





PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PROJECT OVERVIEW	SHEET 16	E

PAVEMENT MARKING LEGEND

- (A) PAVEMENT MARKING, 4-INCH, EPOXY, (WHITE)
- (B) PAVEMENT MARKING, CHANNELIZING, 8-INCH, EPOXY, (WHITE)
- (C) PAVEMENT MARKING, STOP LINE, 18-INCH, EPOXY, (WHITE)
- (D) PAVEMENT MARKING, STOP LINE, 24-INCH, EPOXY, (WHITE)
- (E) PAVEMENT MARKINGS, 4-INCH, EPOXY, (SKIP,YELLOW)
- (F) PAVEMENT MARKING, 4-INCH, EPOXY, (DOUBLE, YELLOW)

1003+00

STH 79

END CONSTRUCTION
STA 1003+62.85

16.3'

2.8'

1004+00

STA 448+48.38 USH 12 54'LT,
STA 1004+22.71 SHT 79 56.5'RT

R 30.5

STA 449+32.64 USH 12
STA 1005+05.31 STH 79

STA 449+80.12 USH 12 74'LT,
STA 1004+55.71 STH 79 72.6'LT

R 50

UNION PACIFIC R

447+00

448+00

449+00

450+00

451+00

452+00

12.0'

+52.34

13.5'

USH 12

+61.94

11.8'

+11.46

10.0'

R 45

STA 449+10.17 USH 12 69'RT,
STA 2000+53.18 STH 79 51.7'RT

24.0'

+20.60

11.6'

R 35

9.2'

18.1'

STA 450+17.79 USH 12 60'RT,
STA 2000+89.51 STH 79 50'LT

STA 449+35.60 USH 12
STA 2000+00.88 370TH ST

2001+00

S 1°10'38" E

AIRPORT RD

BEGIN CONSTRUCTION
STA 2000+72.44

PI 2001+94.26

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	INTERSECTION DETAIL	SHEET 17	E

2

STH 128

N

REPLACE

1-1

SOUTH | TO | WEST | NORTH
128 | 94 (INTERSTATE) | 12 | 128

J3-4
96" X 57"

REPLACE

WOODVILLE
SPRING VALLEY
GLENWOOD CITY

1-2

D1-3
42" X 96"

MATCHLINE STA 15+00

5+00

USH 12

10+00

1-3

REMOVE

WILSON 1
MENOMONIE 15

REMOVE

EAST | ALTERNATE | 12 | 94 (INTERSTATE)

J4-2
48" X 36"

1-4

INSTALL

WILSON 1
MENOMONIE 15

D2-2
84" X 24"

1-5

INSTALL

EAST | ALTERNATE | 12 | 94 (INTERSTATE)

J4-2
48" X 36"

25
382.714

SIGN LEGEND

- SIGN(S) ON ONE 2" ϕ GALVANIZED POST, SPECIAL
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- 000 SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT / TRAFFIC SIGNAL POLE

1-8

REPLACE

Glen Hills
County Park

D7-68R
72" X 36"

PI 23+25.24

1-9

REPLACE

JCT | 128

J1-1
24" X 39"

BACK 26+99.77
AHEAD 495+65.00

EQUATION

MATCHLINE STA 499+00

25+00

S 73°29'52" E

PT 26+01.27

REMOVE

ALTERNATE | 94 (INTERSTATE)

J4-1
24" X 36"

REMOVE

SOUTH | WEST | NORTH
128 | 12 | 128

J2-3
72" X 57"

1-7

INSTALL

SOUTH | TO | WEST | NORTH
128 | 94 (INTERSTATE) | 12 | 128

J2-4
96" X 57"

1-6

20+00

PC 20+45.19

N 89°35'04" E

USH 12

MATCHLINE STA 15+00

REPLACE

NO PASSING ZONE

W14-3
48" X 36"

1-7

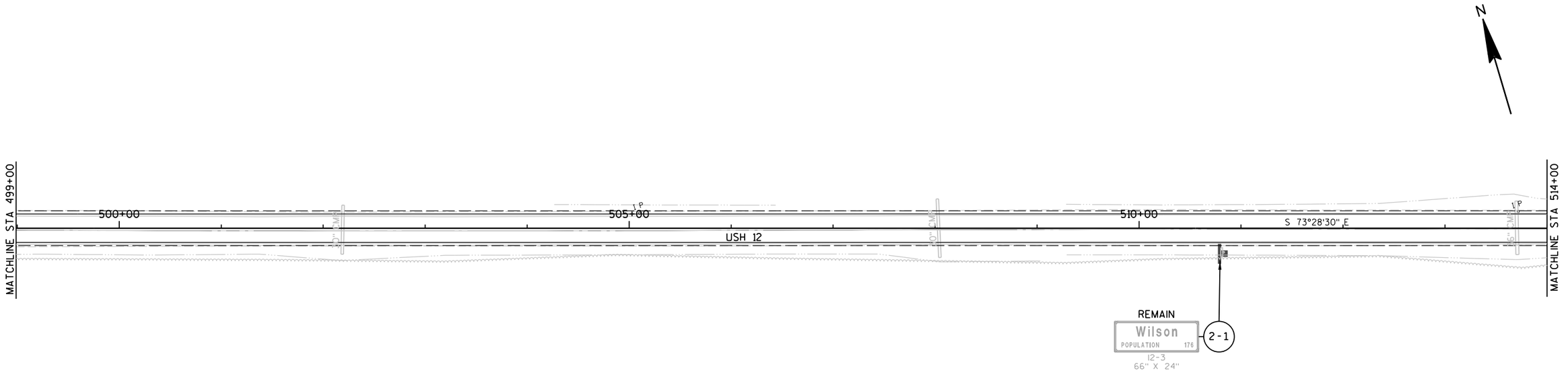
N

NOTE

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETE. THE NUMBER AND LOCATION TO BE APPROVED BY THE ENGINEER.

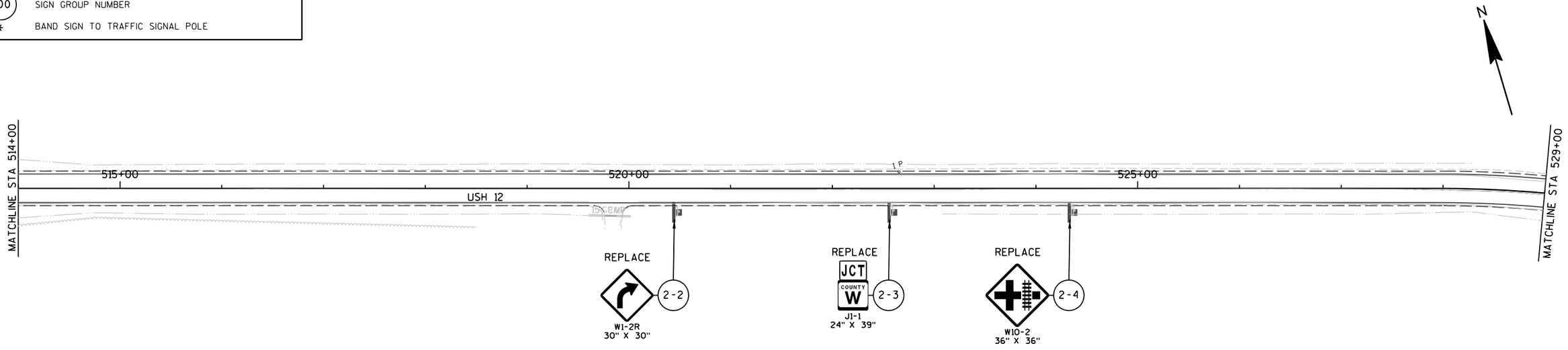
PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST. CROIX	PERMANENT SIGNING PLAN	SHEET 18	E

2



SIGN LEGEND

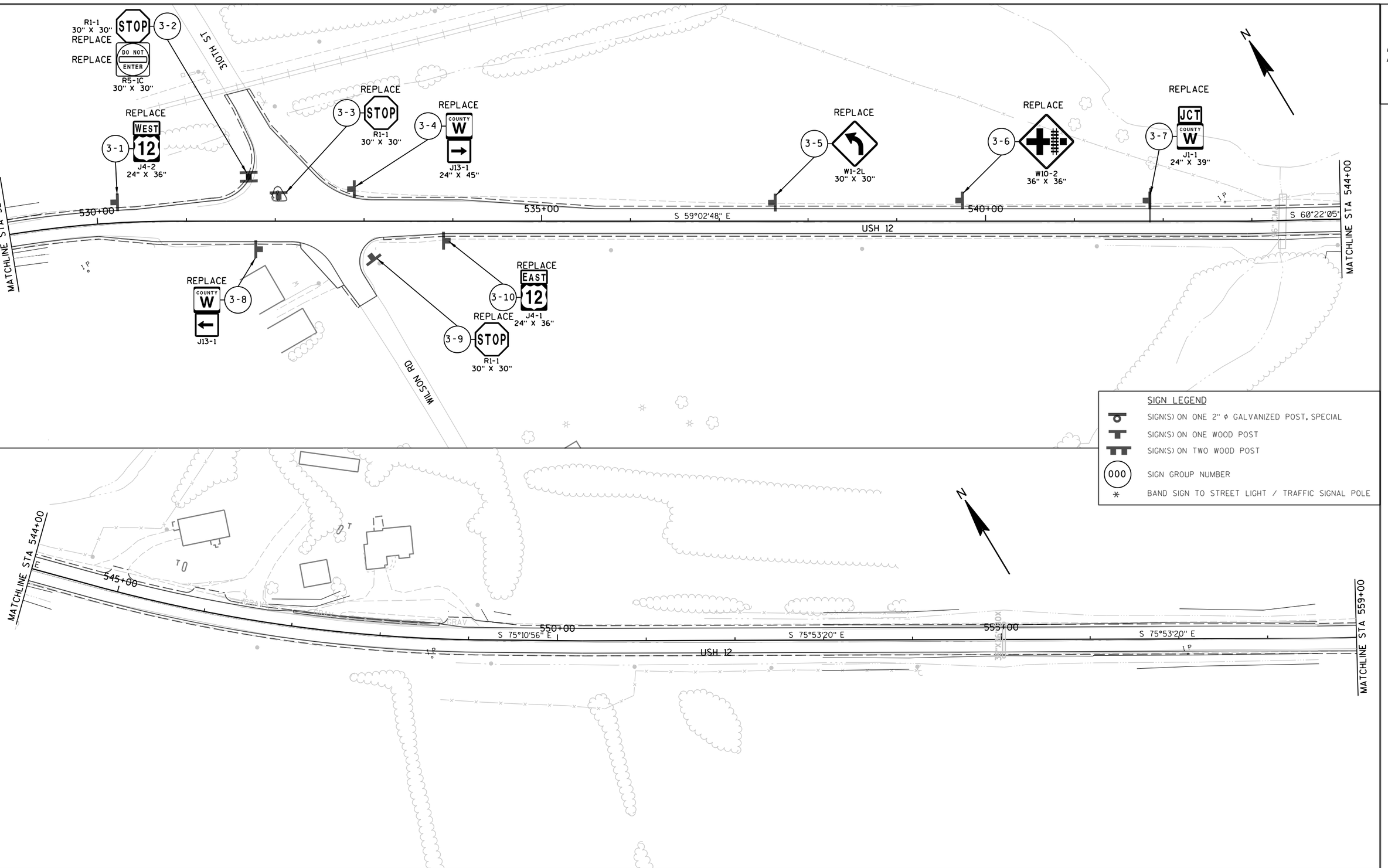
- SIGN(S) ON EXISTING POST
- SIGN(S) ON ONE POST TUBULAR STEEL 2 X 2 - INCH
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- 000 SIGN GROUP NUMBER
- * BAND SIGN TO TRAFFIC SIGNAL POLE



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST. CROIX	PERMANENT SIGNING PLAN	SHEET 19	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\SNUSH1202.dgn PLOT TIME : 4:05:30 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

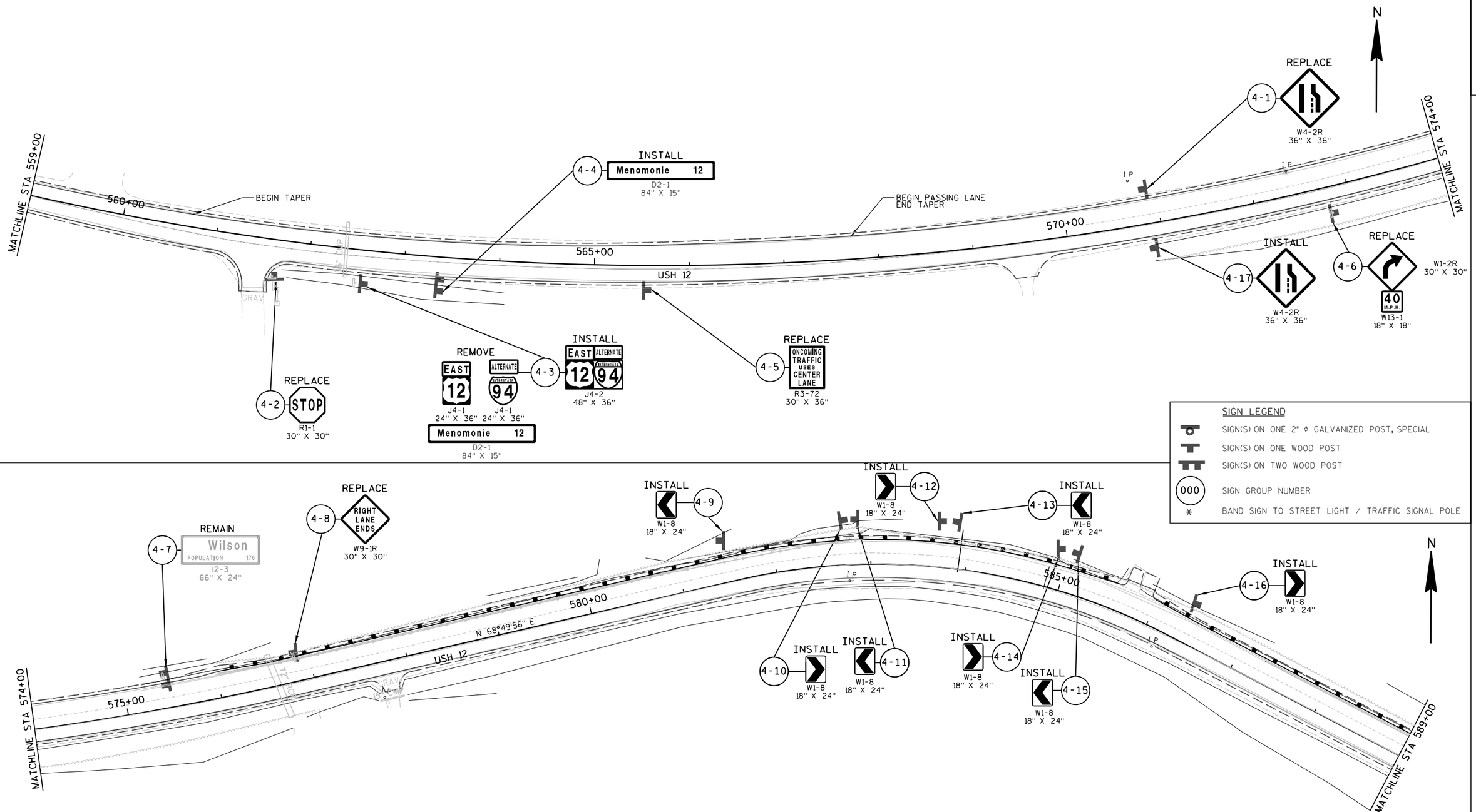
2



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST. CROIX	PERMANENT SIGNING PLAN	SHEET 20	E

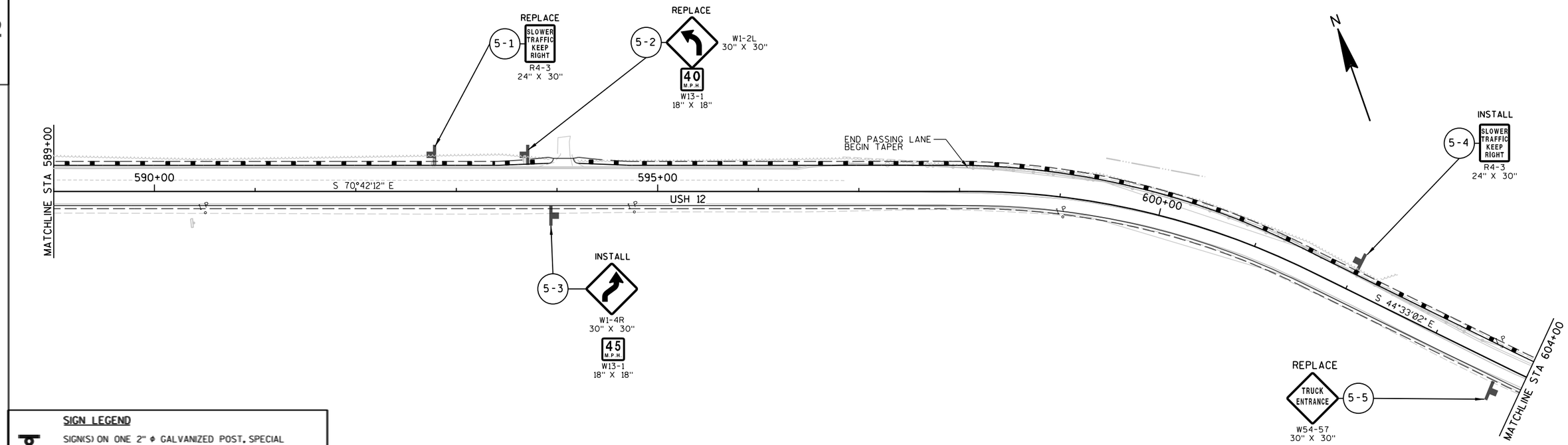
FILE NAME : P:\UZ\W\Witnw\118872\CAD\SNUSH1203.dgn PLOT TIME : 4:05:30 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

2



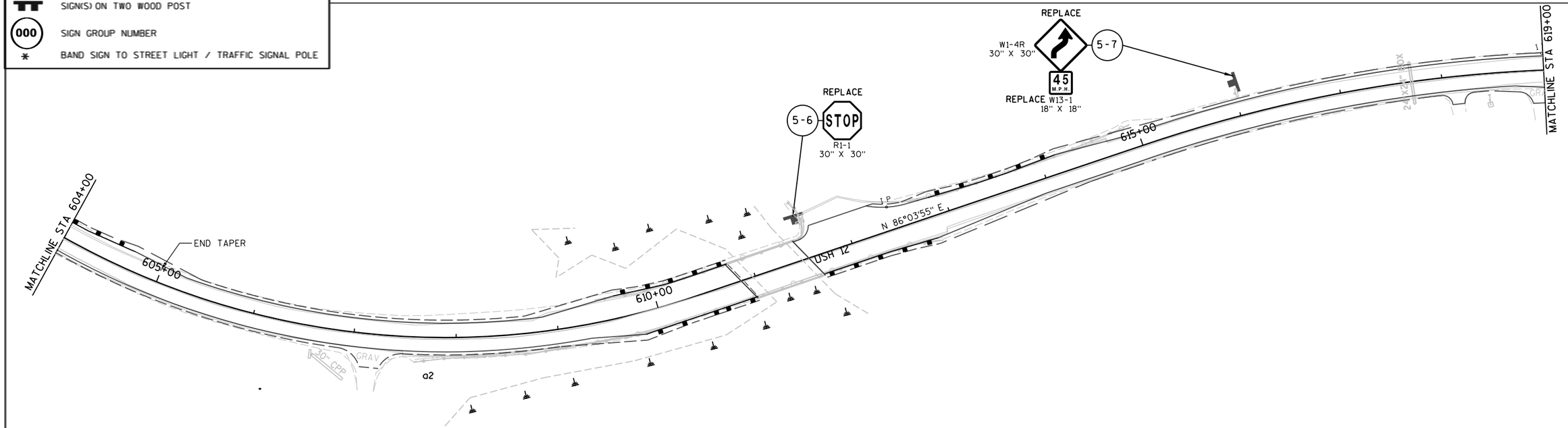
PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST. CROIX	PERMANENT SIGNING PLAN	SHEET 21	E

2



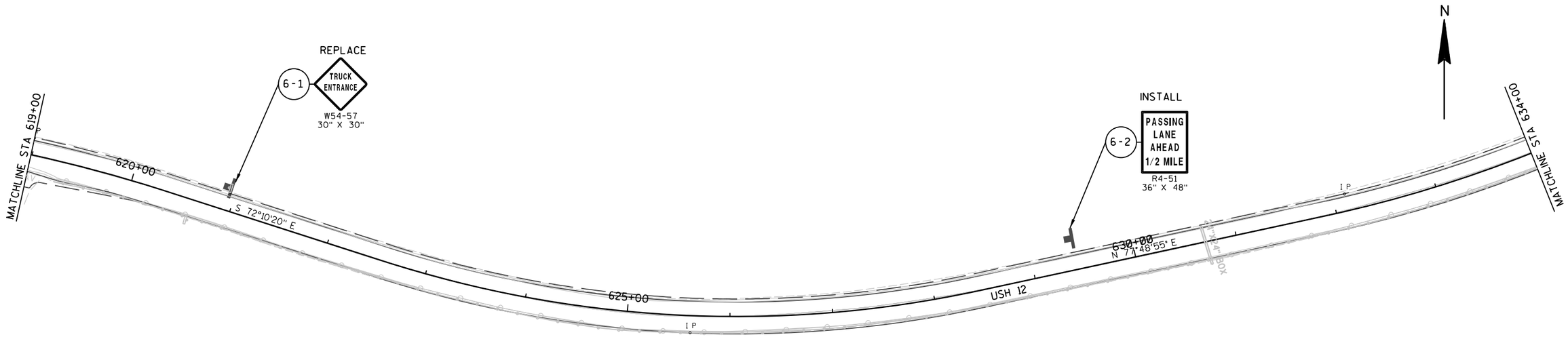
SIGN LEGEND

- SIGN(S) ON ONE 2" ϕ GALVANIZED POST, SPECIAL
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- (000) SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT / TRAFFIC SIGNAL POLE



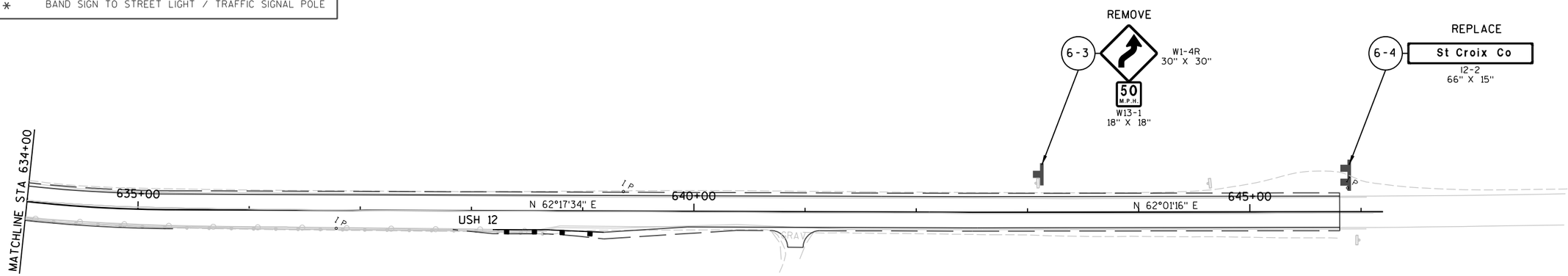
PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST. CROIX	PERMANENT SIGNING PLAN	SHEET 22	E

2



SIGN LEGEND

- SIGN(S) ON ONE 2" ϕ GALVANIZED POST, SPECIAL
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- 000 SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT / TRAFFIC SIGNAL POLE



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST. CROIX	PERMANENT SIGNING PLAN	SHEET 23	E

NOTE

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETE. THE NUMBER AND LOCATION TO BE APPROVED BY THE ENGINEER.

REPLACE

Dunn Co 7-1

12-2
54" x 15"

UNION PACIFIC RAILROAD

UNION PACIFIC RAILROAD

MATCHLINE

MATCHLINE STA 5+00

N 62°17'34" E

640+00

N 62°01'16" E

645+00

00

5+

N 61°39'15" E

USH 12

REPLACE

NO PASSING ZONE

W14-3
48" X 36"

EQUATION

7-2

SPONSOR KNAPP LION'S CLUB

I55-56
30" X 36"

SIGN LEGEND

- SIGN(S) ON ONE 2" ϕ GALVANIZED POST, SPECIAL
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- 000 SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT / TRAFFIC SIGNAL POLE

INSTALL

PASSING LANE AHEAD 1 MILE

7-3

R4-51A
36" x 48"

REPLACE

7-4

W5-52L
12" X 36"

REPLACE

7-5

W5-52R
12" X 36"

REPLACE

NO PASSING ZONE

7-6

W14-3
48" X 36"

UNION PACIFIC RAILROAD

MATCHLINE STA 5+00

00

10+00

N 61°39'15" E

15+00

20

MATCHLINE STA 20+00

USH 12

REPLACE

7-7

W5-52R
12" X 36"

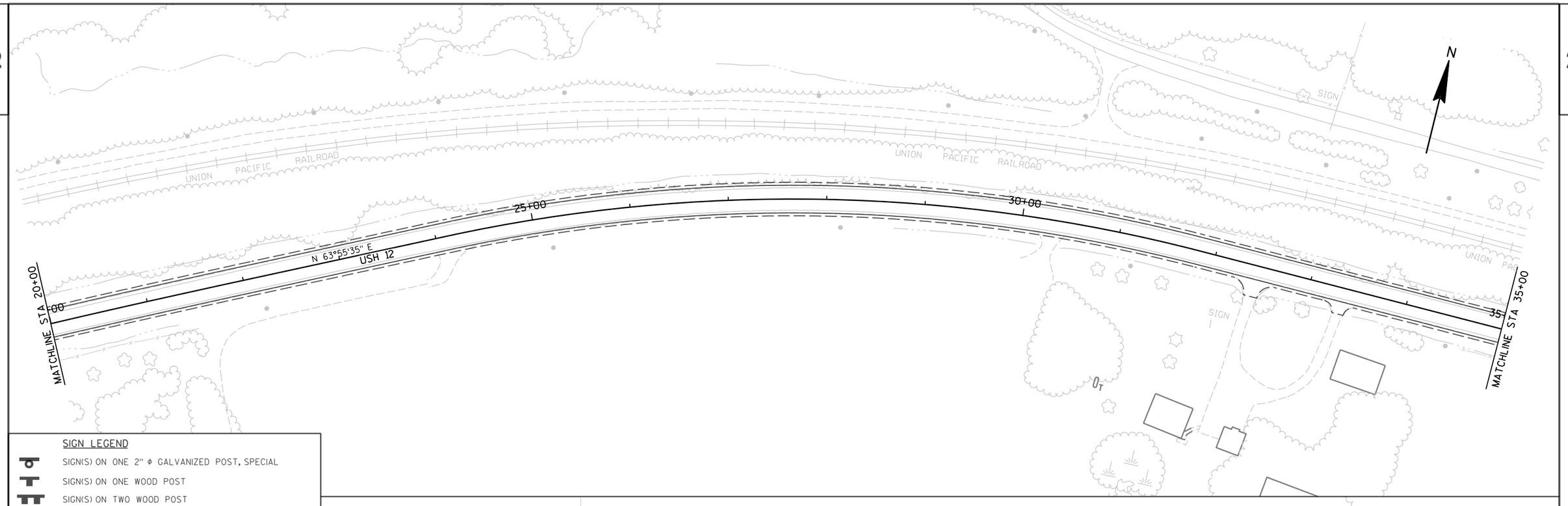
REPLACE

7-8

W5-52L
12" X 36"

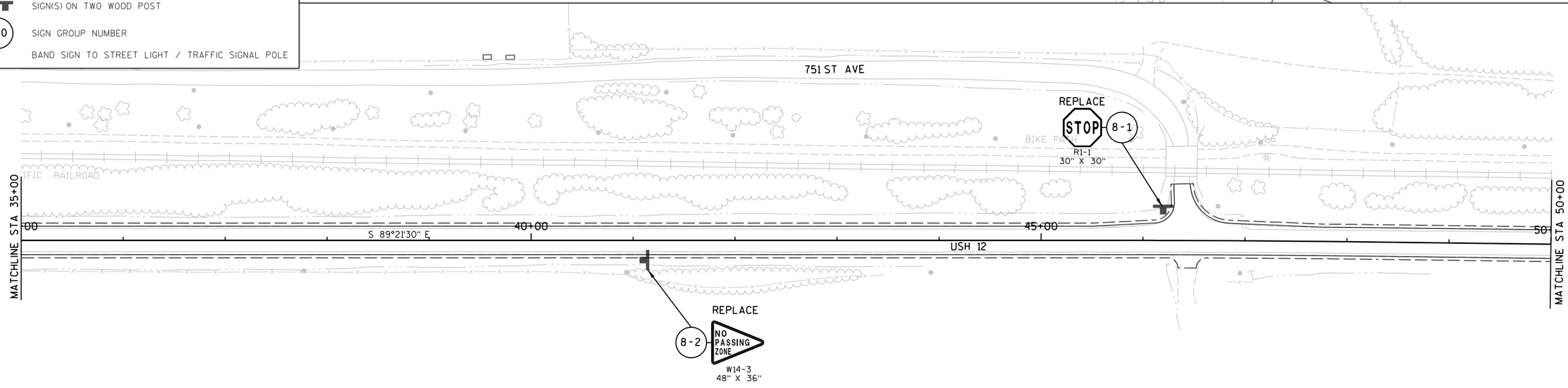
PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST. CROIX AND DUNN	PERMANENT SIGNING PLAN	SHEET 24	E

2



SIGN LEGEND

- SIGN(S) ON ONE 2" ϕ GALVANIZED POST, SPECIAL
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- 000 SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT / TRAFFIC SIGNAL POLE

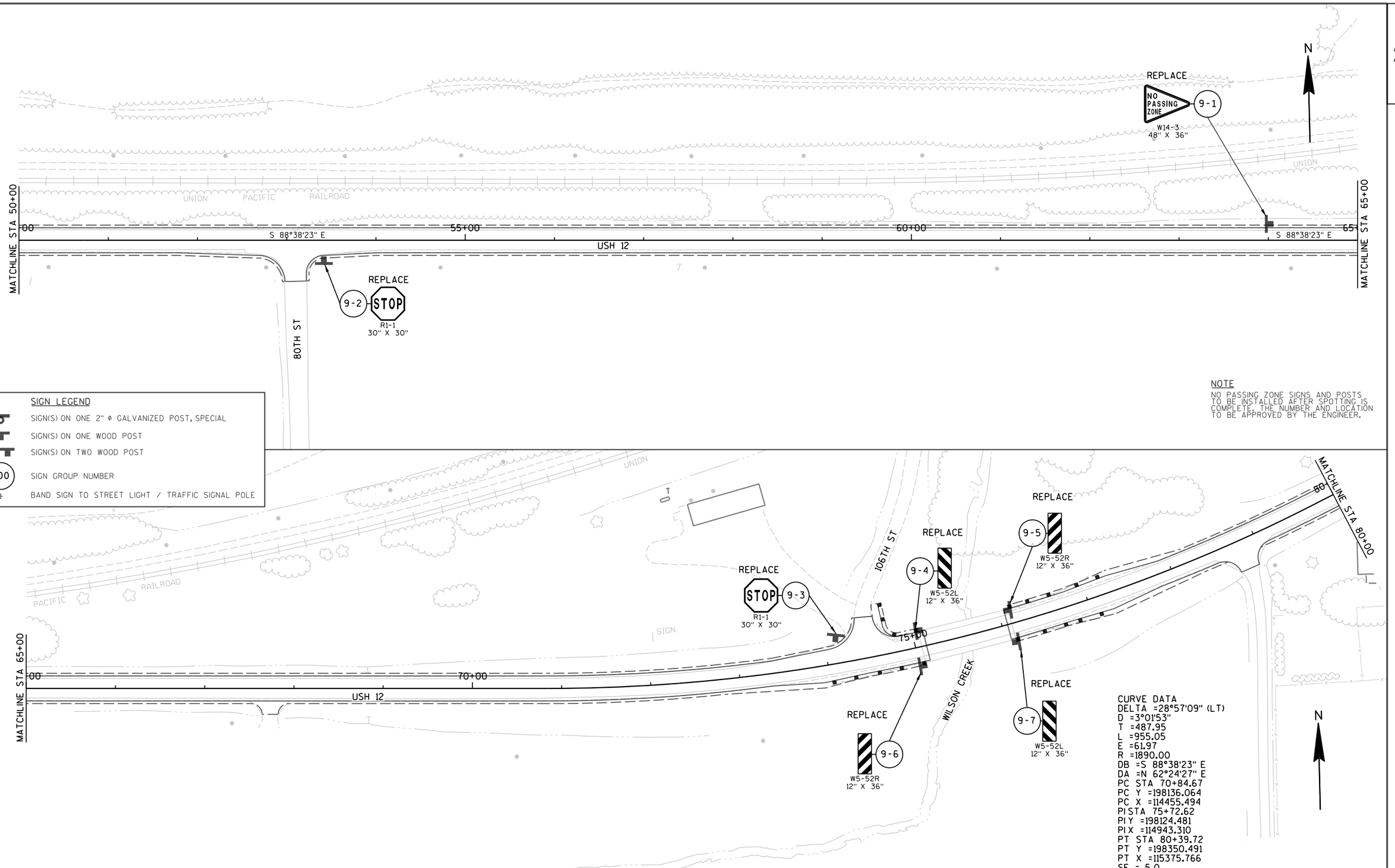


NOTE

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETE. THE NUMBER AND LOCATION TO BE APPROVED BY THE ENGINEER.

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 25	E

2



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 26	E

2

UNION PACIFIC RAILROAD

MATCHLINE STA 80+00

00

85+00

N 61°12'24" E

USH 12

90+00

N 78°24'04" E

95

MATCHLINE STA 95+00

REPLACE
10-1
SPEED LIMIT 55
R2-1
24" X 30"

REPLACE
10-2
SPEED LIMIT 45
W3-5
36" X 36"

REPLACE
10-3
SPEED LIMIT 45
R2-1
24" X 30"

SIGN LEGEND

- SIGN(S) ON ONE 2" ϕ GALVANIZED POST, SPECIAL
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- 000 SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT / TRAFFIC SIGNAL POLE

REPLACE
10-4
SPEED LIMIT 45
R2-1
24" X 30"

00

N 82°33'21" E

N 82°53'12" E

100+00

USH 12

REPLACE
10-5
I55-56
30" X 36"

WILSON 4
BALDWIN 12
D2-2
66" X 24"

REPLACE
10-7

REPLACE
10-6
WEST ALTERNATE 12 ALTERNATE 94
J4-2
48" X 36"

REPLACE
10-8
COUNTY Q 12
J13-2
48" X 45"

REPLACE
10-9
STOP
R1-1
30" X 30"

REPLACE
10-10
12 COUNTY Q
J13-2
48" X 45"

REPLACE
10-11
JCT COUNTY Q
J1-1
24" X 39"

CTH Q

105+00

REPLACE
10-12
JCT COUNTY Q
J1-1
24" X 39"

REPLACE
10-13
W10-3
36" X 36"

REPLACE
10-14
COUNTY Q
J13-1
24" X 57"

110

MATCHLINE STA 110+00

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 27	E

FILE NAME : P:\UZ\W\Wifnw\118872\CAD\SNUSH1210.dgn PLOT TIME : 4:05:35 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

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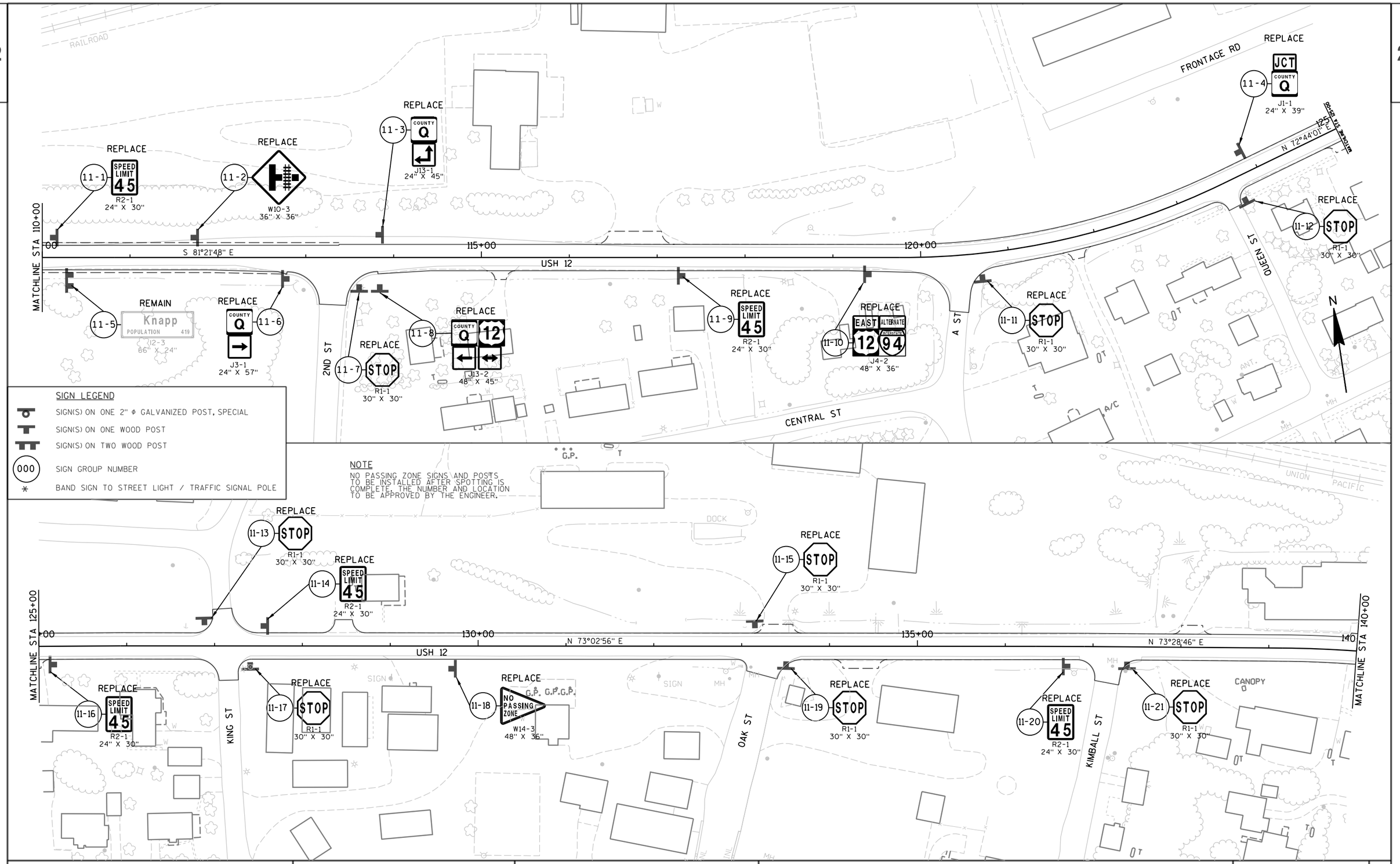

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 28	E

2

SIGN LEGEND

- SIGN(S) ON ONE 2" ϕ GALVANIZED POST, SPECIAL
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- 000 SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT / TRAFFIC SIGNAL POLE

RAILROAD

FOUND

UNION PACIFIC RAILROAD

N

REPLACE

NO PASSING ZONE 12-1

W14-3
48" X 36"

MATCHLINE STA 140+00

140+00

N 81°47'59" E

145+00

150+00

N 81°43'55" E

USH 12

155+00

MATCHLINE STA 155+00

REPLACE

12-2 STOP

R1-1
30" X 30"

PARK ST

NOTE

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETE. THE NUMBER AND LOCATION TO BE APPROVED BY THE ENGINEER.

CHURCH ST

12-3 STOP

R1-1
30" X 30"

REPLACE

SIGN

RAILROAD

POOL

CANOPY

REPLACE

12-4 SPEED LIMIT 45

R2-1
24" X 30"

REPLACE

12-5 STOP

R1-1
30" X 30"

N

MATCHLINE STA 155+00

155+00

160+00

165+00

N 88°32'08" E

170+00

MATCHLINE STA 170+00

USH 12

REPLACE

SPEED LIMIT 45 12-6

R2-1
24" X 30"

3RD AVE

REPLACE

12-7 STOP

R1-1
30" X 30"

2ND AVE

REPLACE

12-8 STOP

R1-1
30" X 30"

1ST AVE

REPLACE

12-9 STOP

R1-1
30" X 30"

REPLACE

12-10 NO PASSING ZONE

W14-3
48" X 36"

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 29	E

FILE NAME : P:\UZW\Wifnw\118872\CAD\SNUSH1212.dgn PLOT TIME : 4:05:37 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

2

2

N

MATCHLINE STA 170+00

MATCHLINE STA 185+00

175+00

180+00

185

N 88°24'38" E

USH 12

IST ST

INL

SIGN

SIGN

REPLACE 13-1 SPEED LIMIT 45 R2-1 24" X 30"

REPLACE 13-2 STOP R1-1 30" X 30"

REPLACE 13-3 SPEED LIMIT 45 R2-1 24" X 30"

REPLACE 13-4 STOP R1-1 30" X 30"

REPLACE 13-5 SPEED LIMIT 45 R2-1 24" X 30"

REPLACE 13-6 JCT COUNTY O J1-1 24" X 39"

SIGN LEGEND

- SIGN(S) ON ONE 2" ϕ GALVANIZED POST, SPECIAL
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- 000 SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT / TRAFFIC SIGNAL POLE

NOTE

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MATCHLINE STA 185+00

MATCHLINE STA 200+00

190+00

195+00

200

N 88°17'09" E

N 89°17'38" E

USH 12

CTH O

190TH ST

REPLACE 13-7 12 J13-1 24" X 45"

REPLACE 13-8 STOP R1-1 30" X 30"

REPLACE 13-9 COUNTY O J13-1 24" X 45"

REPLACE 13-10 NO PASSING ZONE W14-3 48" X 36"

REPLACE 13-11 SPEED LIMIT 45 R2-1 24" X 30"

REMAINS 13-12 Knapp POPULATION 421 I2-3 60" x 24"

REPLACE 13-13 JCT COUNTY O J1-1 24" X 39"

REPLACE 13-14 SPEED LIMIT 45 W3-5 36" X 36"

REPLACE 13-15 STOP R1-1 30" X 30"

INSTALL 13-23 W1-6 48" X 24"

REPLACE 13-16 COUNTY O J13-1 24" X 45"

REPLACE 13-17 SPEED LIMIT 55 R2-1 24" X 30"

REPLACE 13-18 W1-2R 30" X 30" 50 M.P.H. W13-1 18" X 18"

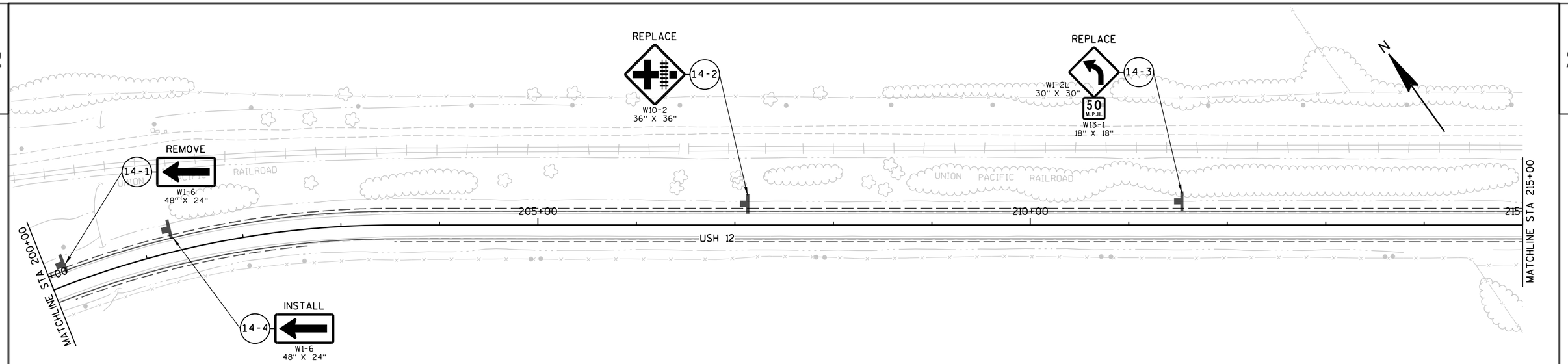
REPLACE 13-19 Menomonie 8 D2-1 78" X 15"

REPLACE 13-20 ALTERNATE EAST INTERSTATE 94 12 J4-2 48" X 36"

REPLACE 13-21 W10-2 36" X 36"

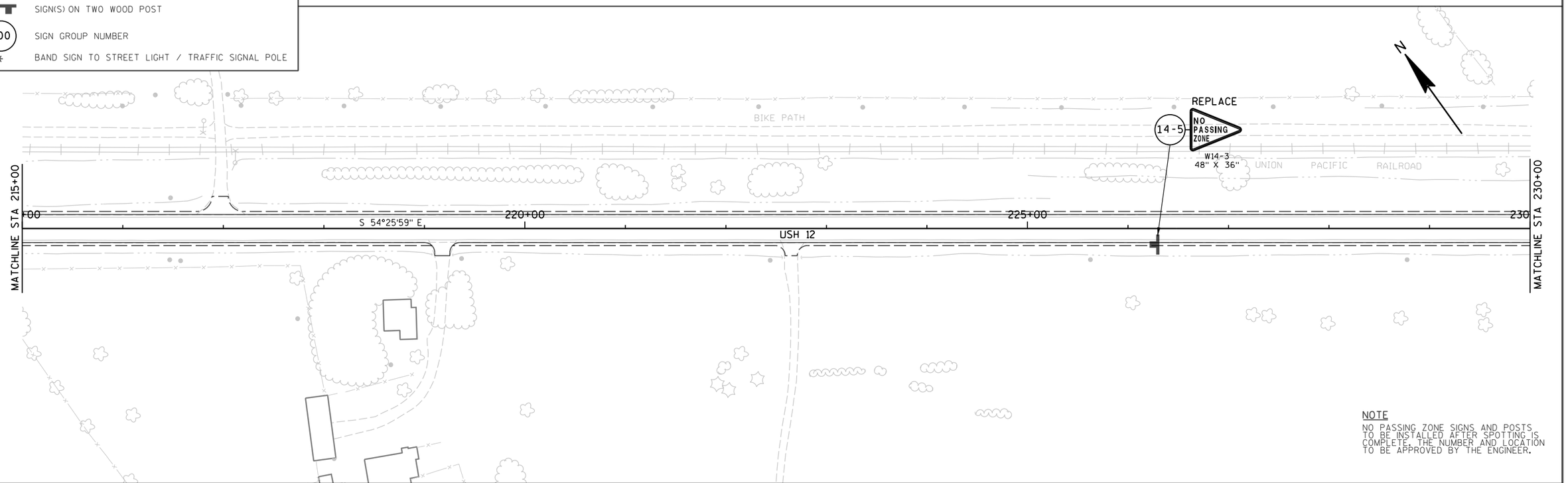
REPLACE 13-22 STOP R1-1 30" X 30"

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 30	E



SIGN LEGEND

- SIGN(S) ON ONE 2" ϕ GALVANIZED POST, SPECIAL
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- (000) SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT / TRAFFIC SIGNAL POLE



NOTE

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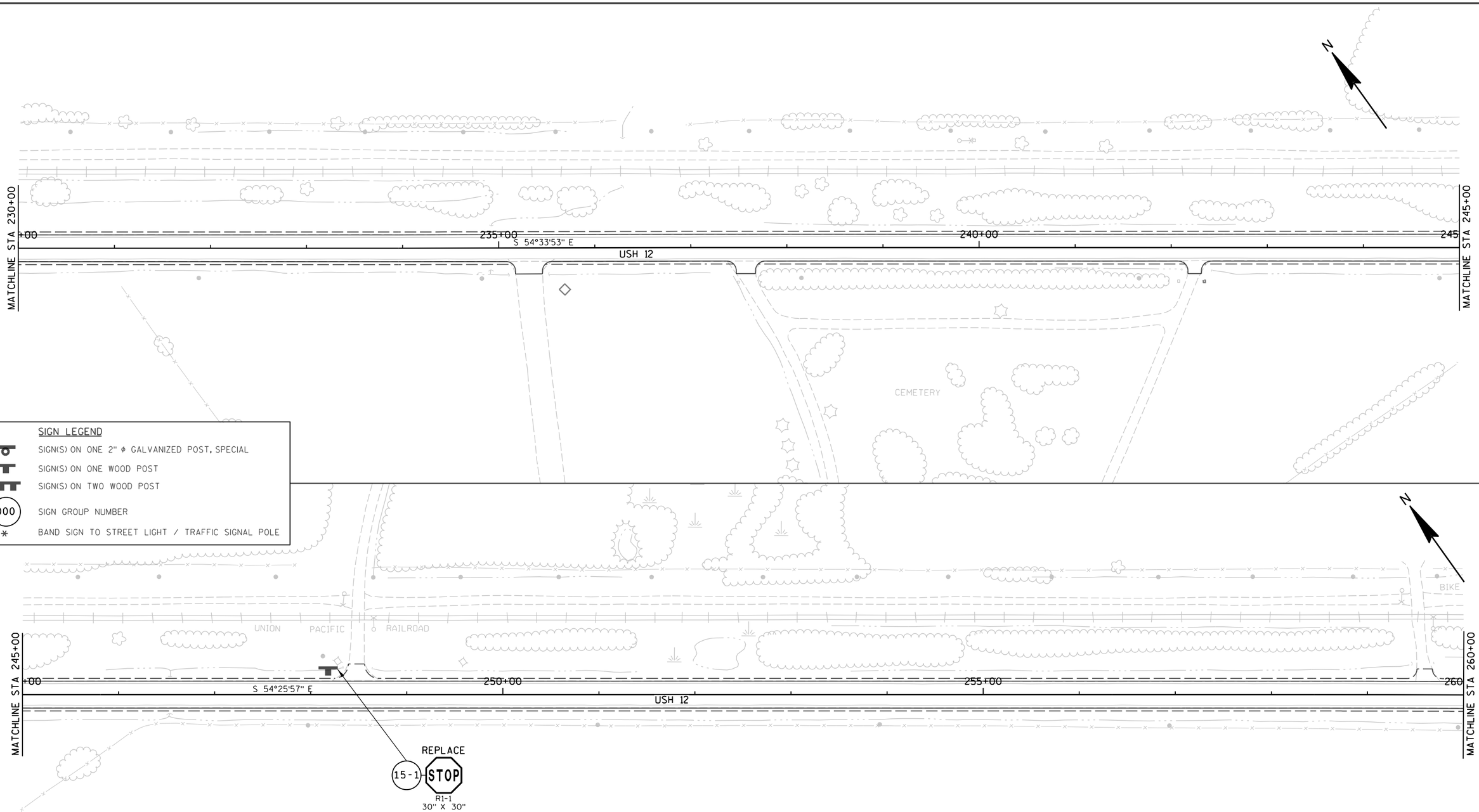
PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 31	E

2



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 32	E

2

PATH

UNION PACIFIC RAILROAD

SIGN

UNION PACIFIC RAILROAD

MATCHLINE STA 260+00

+00

265+00

S 53°49'06" E

270+00

S 53°24'28" E

275

MATCHLINE STA 275+00

USH 12

REPLACE

16-1 STOP

R1-1
30" X 30"

REPLACE

16-2

W10-2
36" X 36"

RUINS

73IST AVE

N

SIGN LEGEND

- SIGN(S) ON ONE 2" ϕ GALVANIZED POST, SPECIAL
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- 000 SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT / TRAFFIC SIGNAL POLE

NOTE

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WM

BIKE PATH

REPLACE

16-3

W5-52L
12" X 36"

REPLACE

16-4

W5-52R
12" X 36"

WILSON CREEK

REPLACE

NO PASSING ZONE 16-5

W14-3
48" X 36"

REPLACE

16-6 STOP

R1-1
30" X 30"

UNION PACIFIC RAILROAD

REPLACE

16-7

W10-2
36" X 36"

N

MATCHLINE STA 275+00

+00

280+00

S 54°29'26" E

285+00

290

MATCHLINE STA 290+00

USH 12

REPLACE

16-8

W5-52R
12" X 36"

REPLACE

16-9

W5-52L
12" X 36"

REPLACE

16-10

W1-2L
30" X 30"

250TH ST

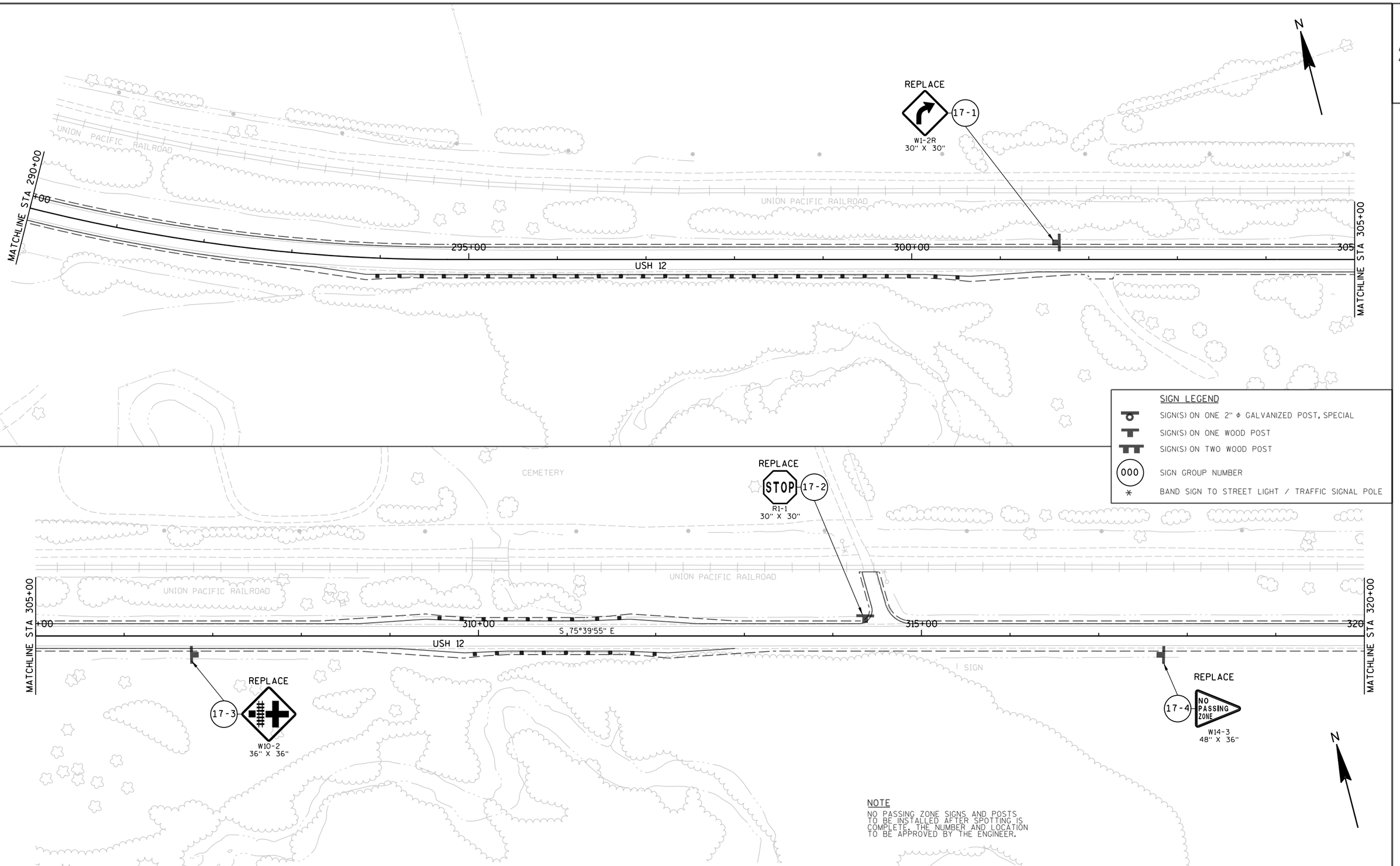
REPLACE

16-11 STOP

R1-1
30" X 30"

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 33	E

2



NOTE

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETE. THE NUMBER AND LOCATION TO BE APPROVED BY THE ENGINEER.

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 34	E

2

SIGN LEGEND

- SIGN(S) ON ONE 2" ϕ GALVANIZED POST, SPECIAL
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- (000) SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT / TRAFFIC SIGNAL POLE

REPLACE 18-1 W10-2 36" X 36"

REPLACE 18-5 WEST ALTERNATE 12 94 INTERSTATE J4-2 48" X 36"

UNION PACIFIC RAILROAD

MATCHLINE STA 320+00

325+00

S 75°28'54" E

330+00

MATCHLINE STA 335+00

USH 12

REPLACE 18-2 JCT COUNTY K J1-1 24" X 39"

SEPTIC

71ITH AVE

REPLACE 18-3 STOP R1-1 30" X 30"

REPLACE 18-4 W10-2 36" X 36"

SEPTIC

SEPTIC

REPLACE 18-7 12 COUNTY K J13-2 48" X 45"

REPLACE 18-6 STOP R1-1 30" X 30"

REPLACE 18-8 COUNTY K J13-1 24" X 45"

UNION PACIFIC RAILROAD

MATCHLINE STA 335+00

340+00

S 75°40'39" E

345+00

MATCHLINE STA 350+00

USH 12

REPLACE 18-9 W10-2 36" X 36"

REPLACE 18-10 JCT COUNTY K J1-1 24" X 39"

REPLACE NO PASSING ZONE W14-3 48" X 36"

REPLACE COUNTY K 18-11 J13-1 24" X 45"

CTH K

REPLACE 18-12 STOP R1-1 30" X 30"

REPLACE 18-13 12 COUNTY K J13-2 48" X 45"

REPLACE 18-14 EAST 12 J4-1 24" X 36"

REPLACE 18-15 SPONSOR I55-56 30" X 36"

SEPTIC

SEPTIC

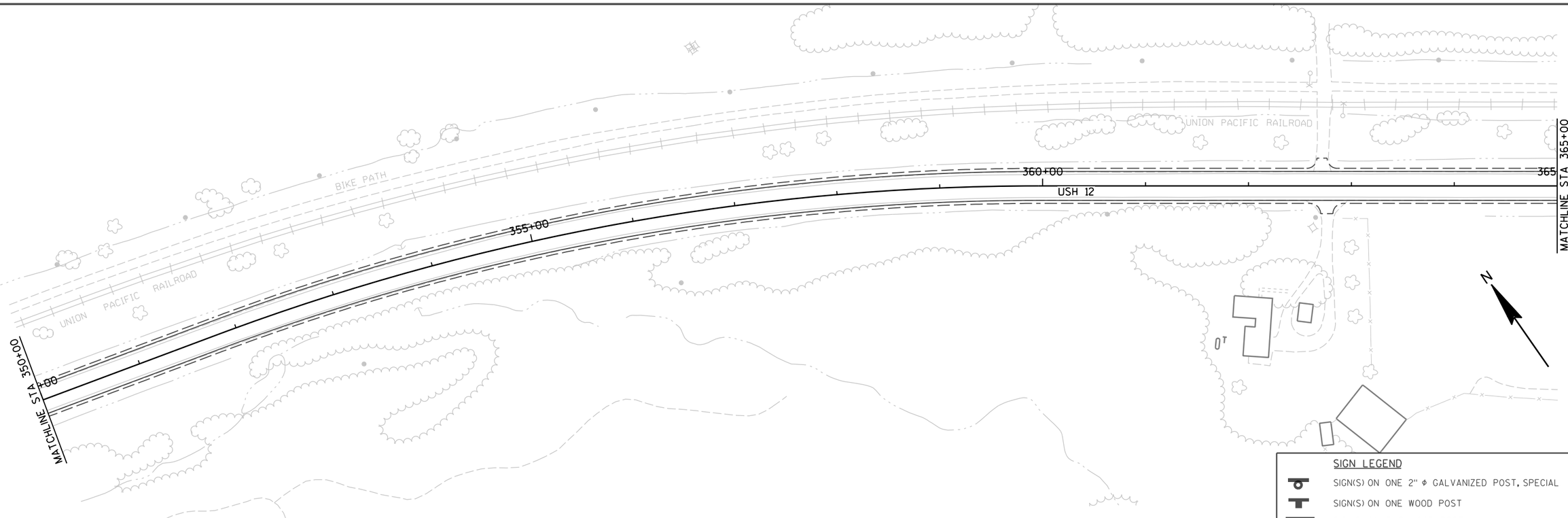
IOUSE

NOTE

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETE. THE NUMBER AND LOCATION TO BE APPROVED BY THE ENGINEER.

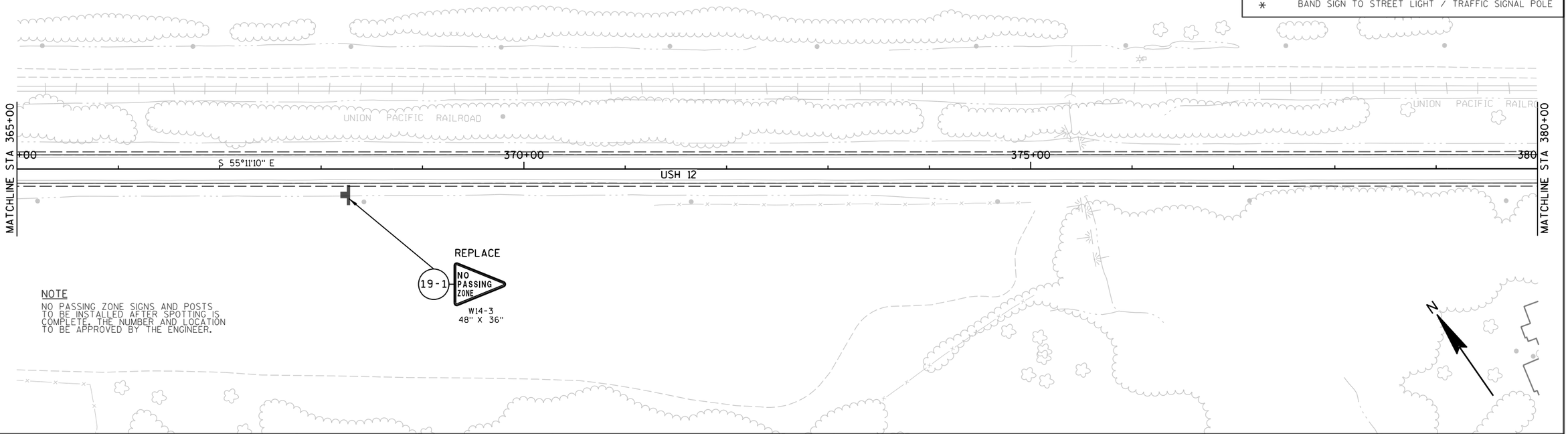
PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 35	E

2



SIGN LEGEND

- SIGN(S) ON ONE 2" ϕ GALVANIZED POST, SPECIAL
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- 000 SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT / TRAFFIC SIGNAL POLE



NOTE

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETE. THE NUMBER AND LOCATION TO BE APPROVED BY THE ENGINEER.

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 36	E

2

2

REPLACE
STOP 20-1
R1-1
30" X 30"

330TH ST

BIKE PATH

UNION PACIFIC RAILROAD

MATCHLINE STA 380+00

+00

385+00

S 55°12'42" E

390+00

395

USH 12

MATCHLINE STA 395+00

REPLACE
20-2
W10-2
36" X 36"

A/C

POOL

SIGN LEGEND

- SIGN(S) ON ONE 2" ϕ GALVANIZED POST, SPECIAL
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- 000 SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT / TRAFFIC SIGNAL POLE

NOTE

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETE. THE NUMBER AND LOCATION TO BE APPROVED BY THE ENGINEER.

REPLACE
20-3
W10-2
36" X 36"

REPLACE
20-4
NO PASSING ZONE
W14-3
48" X 36"

MATCHLINE STA 395+00

+00

400+00

S 55°09'15" E

405+00

410

MATCHLINE STA 410+00

USH 12

690TH AVE

REPLACE
20-5
STOP
R1-1
30" X 30"

REPLACE
20-6
W1F2L
30" X 30"

SIGN

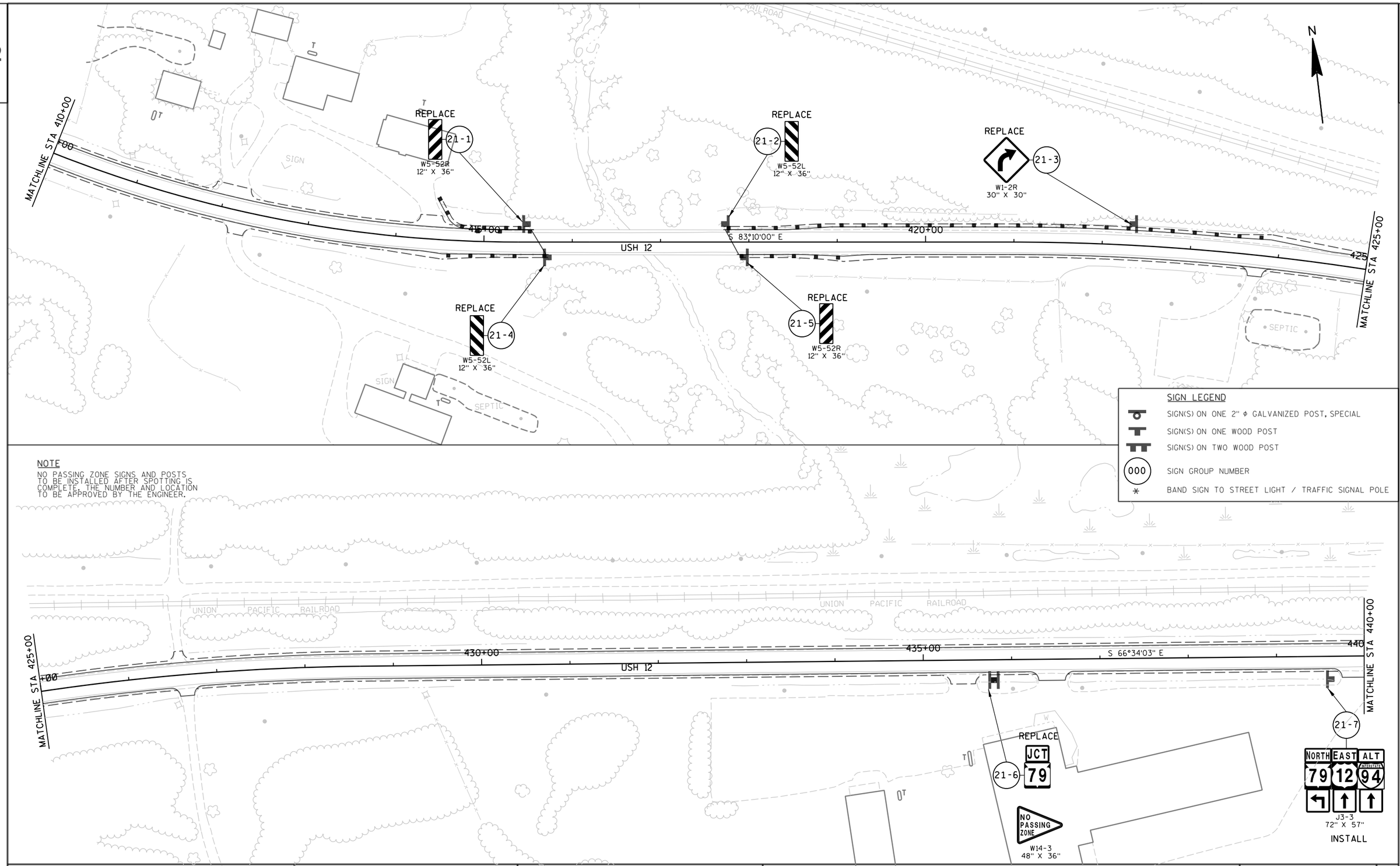
CANOPY

SEPTIC

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 37	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\SNUSH1220.dgn PLOT TIME : 4:05:42 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

2



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 38	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\SNUSH1221.dgn PLOT TIME : 4:05:43 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

2

REPLACE
22-1 NO PASSING ZONE
W14-3
48" X 36"

REPLACE
22-2 WEST ALTERNATE 12 INTERSTATE 94
J4-2
48" X 36"

REPLACE
22-3 Knapp 6 Baldwin 20
D2-2
72" X 24"

REPLACE
22-5 STOP
R1-1
30" X 30"

REPLACE
22-18 R R
W10-1
36" X 36"

REPLACE
22-4 STOP DO NOT ENTER
R1-1
30" X 30"
R5-1C
30" X 30"

STH 79

REPLACE
22-19 R R
W10-1
36" X 36"

REPLACE
22-6 West 12 North 79
J3-2
48" X 57"

REPLACE
22-7 Knapp Boyceville
D1-2
72" X 30"

UNION PACIFIC RAILROAD

MATCHLINE STA 440+00

+00

445+00

450+00

455

MATCHLINE STA 455+00

USH 12

REPLACE
22-8
W10-2
36" X 36"

REPLACE
22-9 Menomonie Boyceville
D1-2
78" X 30"

REPLACE
22-10 North 79 EAST 12
J3-2
48" X 57"

REPLACE
22-11 STOP
R1-1
30" X 30"

370TH ST

REPLACE
22-13 EAST ALTERNATE 12 INTERSTATE 94
J4-2
48" X 36"

REPLACE
22-12 Menomonie 5
D2-1
78" X 15"

SIGN LEGEND

- SIGN(S) ON ONE 2" ϕ GALVANIZED POST, SPECIAL
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- 000 SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT / TRAFFIC SIGNAL POLE

NOTE

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETE. THE NUMBER AND LOCATION TO BE APPROVED BY THE ENGINEER.

REPLACE
22-15 ALTERNATE INTERSTATE 94 WEST 12 NORTH 79
J3-3
72" X 57"

REPLACE
22-16 JCT 79
J1-1
24" X 39"

REPLACE
22-14
W10-2
36" X 36"

MATCHLINE STA 455+00

+00

460+00

465+00

470

MATCHLINE STA 470+00

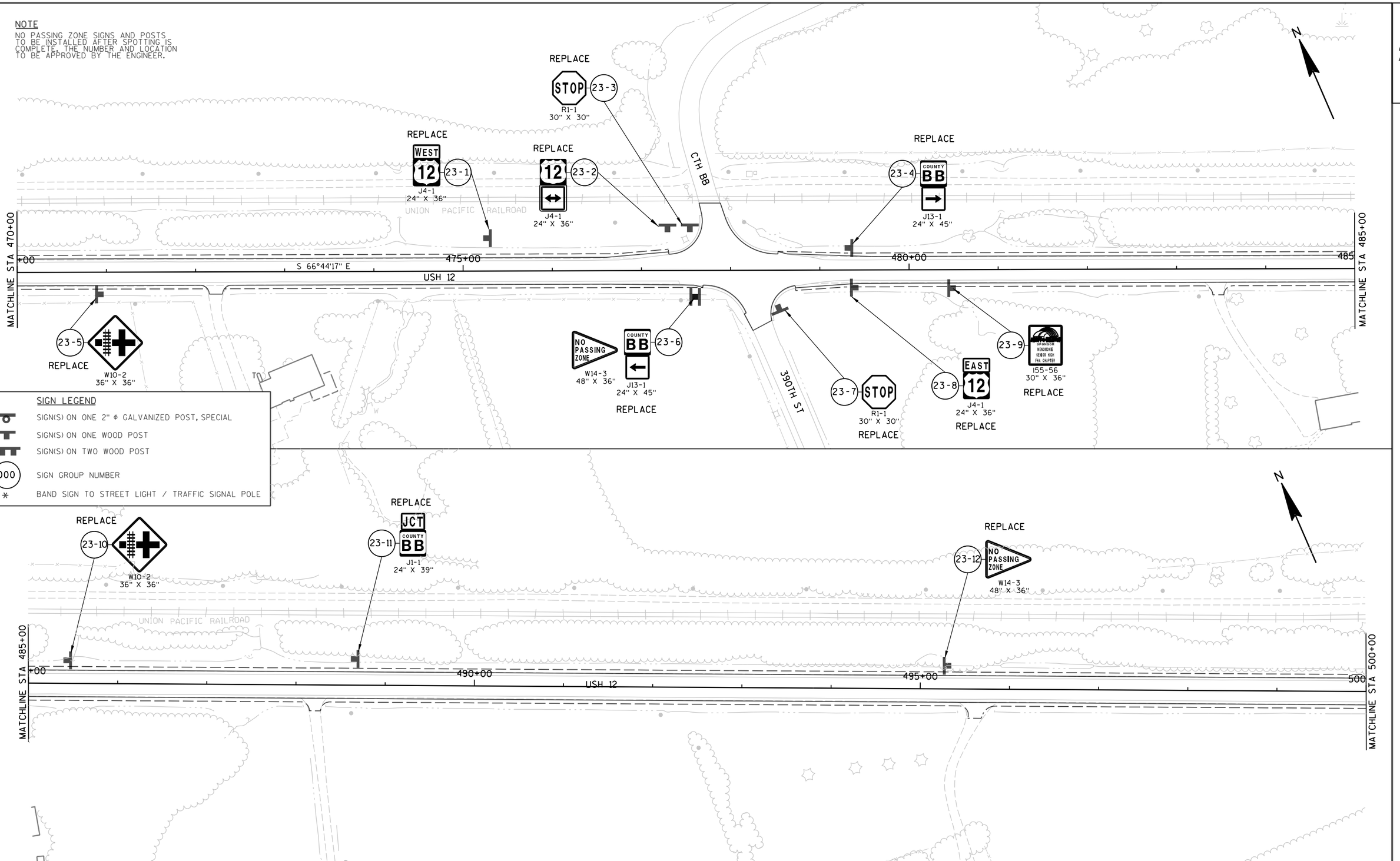
USH 12

REPLACE
22-17 JCT COUNTY BB
J1-1
24" X 39"

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 39	E

NOTE

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETE. THE NUMBER AND LOCATION TO BE APPROVED BY THE ENGINEER.

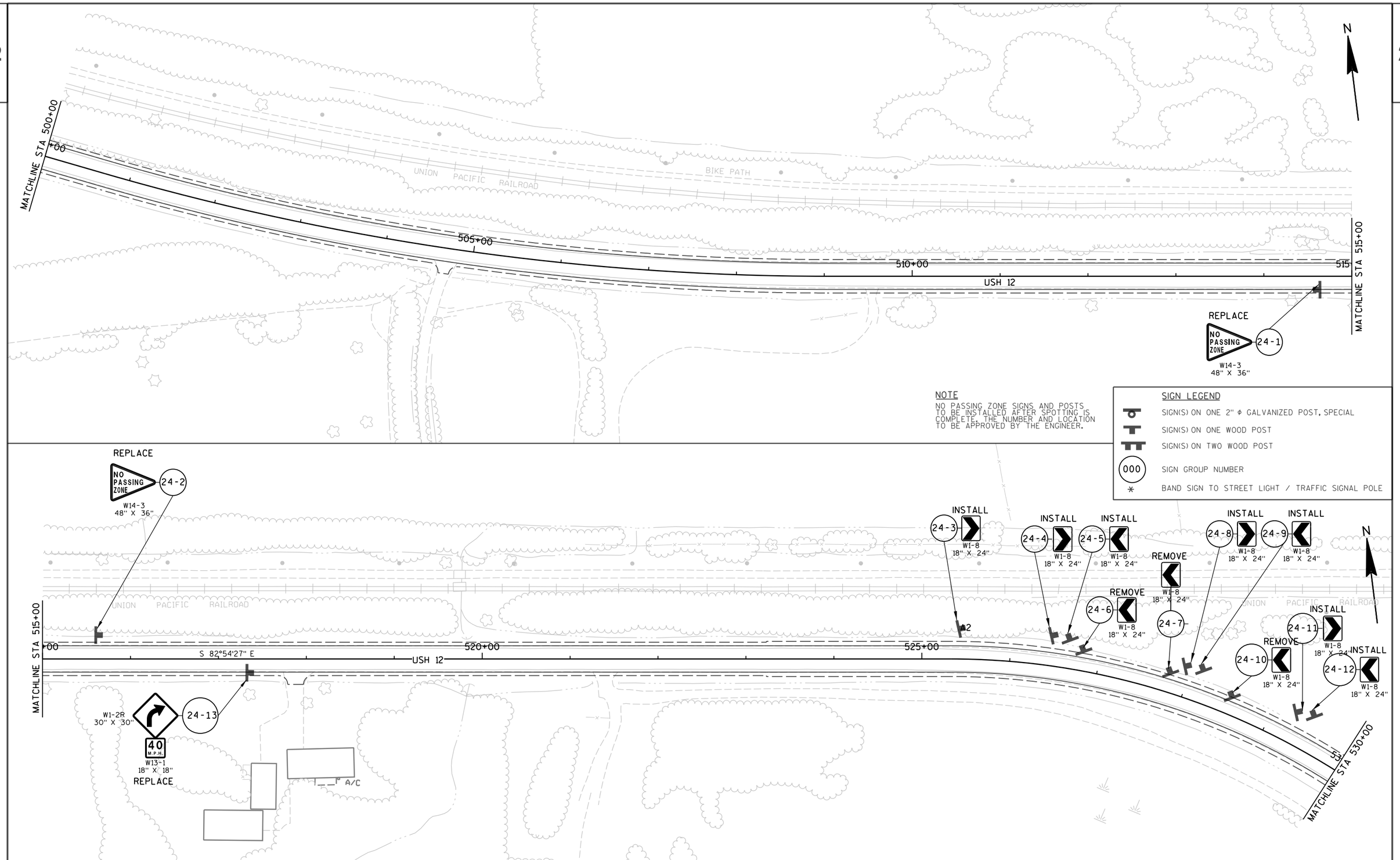


PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 40	E

FILE NAME : P:\UZ\W\Wifnw\118872\CAD\SNUSH1223.dgn PLOT TIME : 4:05:45 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

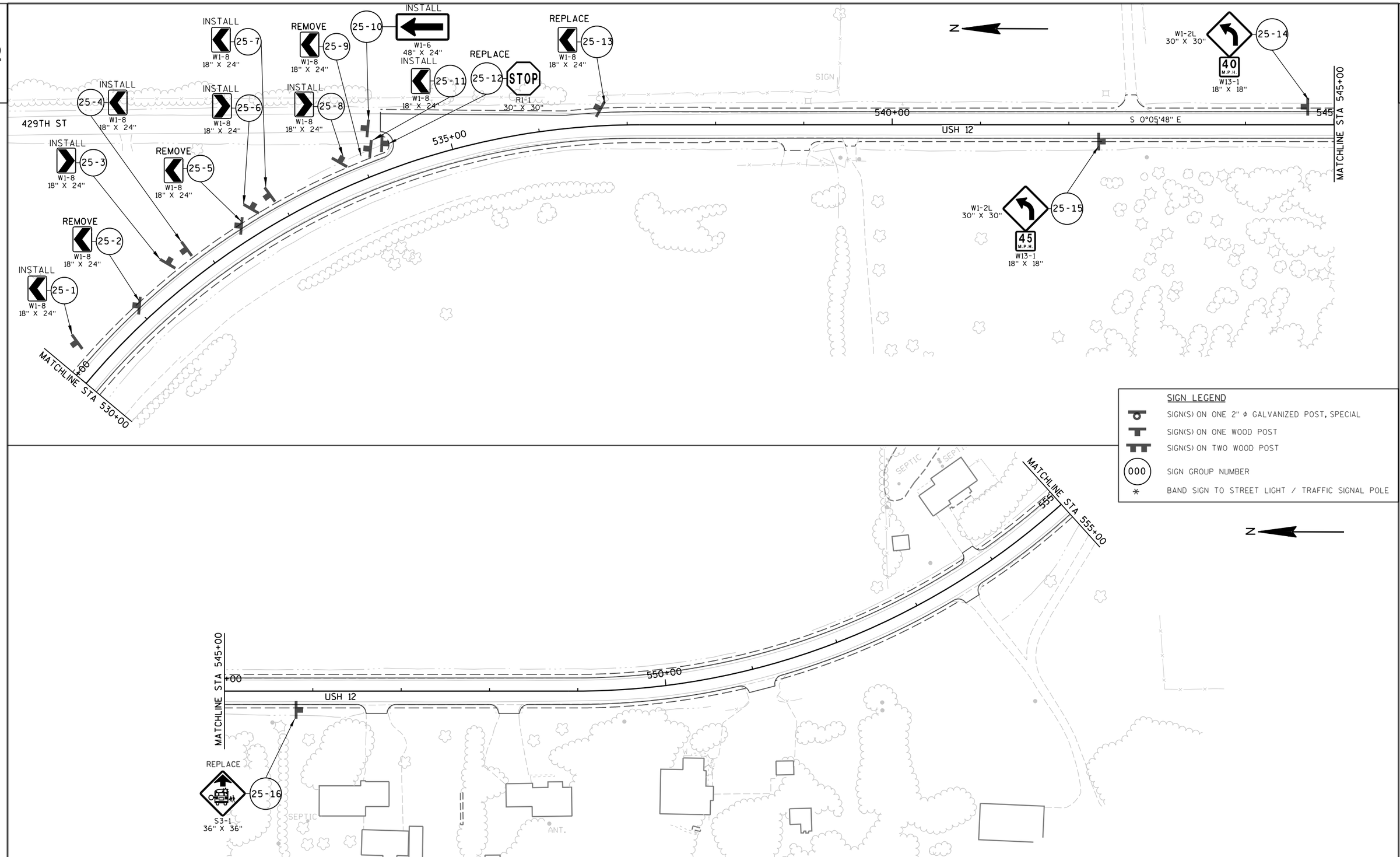
WISDOT/CADDS SHEET 42

2



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 41	E

2



SIGN LEGEND

- SIGN(S) ON ONE 2" ϕ GALVANIZED POST, SPECIAL
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- 000 SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT / TRAFFIC SIGNAL POLE

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 42	E

FILE NAME : P:\UZ\W\Wifnw\118872\CAD\SNUSH1225.dgn PLOT TIME : 4:05:46 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

2

2

SEPTIC

SIGN

REPLACE

W1-2R
30" X 30"

26-1

45
M.P.H.
W13-1
18" X 18"

REPLACE

26-2

S3-1
36" X 36"

MATCHLINE STA 555+00

+00

560+00

S 61°50'13" E

USH 12

565+00

26-3

SPEED LIMIT 45
W3-5
36" X 36"

14'-4"
W12-2
36" X 36"

26-4

MATCHLINE STA 570+00

570+00

N

SIGN LEGEND

- SIGN(S) ON ONE 2" ϕ GALVANIZED POST, SPECIAL
- SIGN(S) ON ONE WOOD POST
- SIGN(S) ON TWO WOOD POST
- (000) SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT / TRAFFIC SIGNAL POLE

NOTE

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETE. THE NUMBER AND LOCATION TO BE APPROVED BY THE ENGINEER.

SIGN

REPLACE

SPEED LIMIT 55
R2-1
24" X 30"

26-5

REPLACE

NO PASSING ZONE
W14-3
48" X 36"

26-6

MATCHLINE STA 570+00

+00

USH 12

S 24°18'39" E

575+00

580+00

S 30°37'43" E

194

194

SPEED LIMIT 45
R2-1
24" X 30"
REPLACE

26-7

SPEED LIMIT 35
R2-1
24" X 30"
REPLACE

26-8

MH

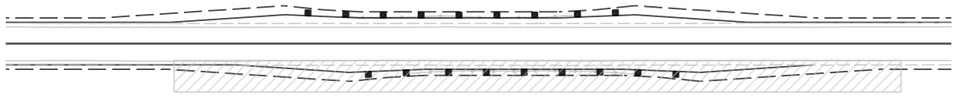
FILLER CAPS

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PERMANENT SIGNING PLAN	SHEET 43	E

FILE NAME : P:\UZ\W\Wifnw\118872\CAD\SNUSH1226.dgn PLOT TIME : 4:05:47 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 42

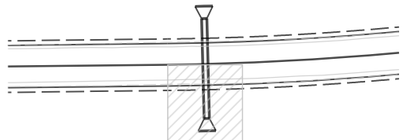
NOTE: GUARDRAIL MUST BE REMOVED AND INSTALLED ONE SIDE OF THE ROADWAY AT A TIME.



TYPICAL TRAFFIC CONTROL AT GUARDRAIL LOCATIONS

UTILIZE SDD TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY DURING GUARDRAIL REMOVAL AND REPLACMENT

WORK ZONE

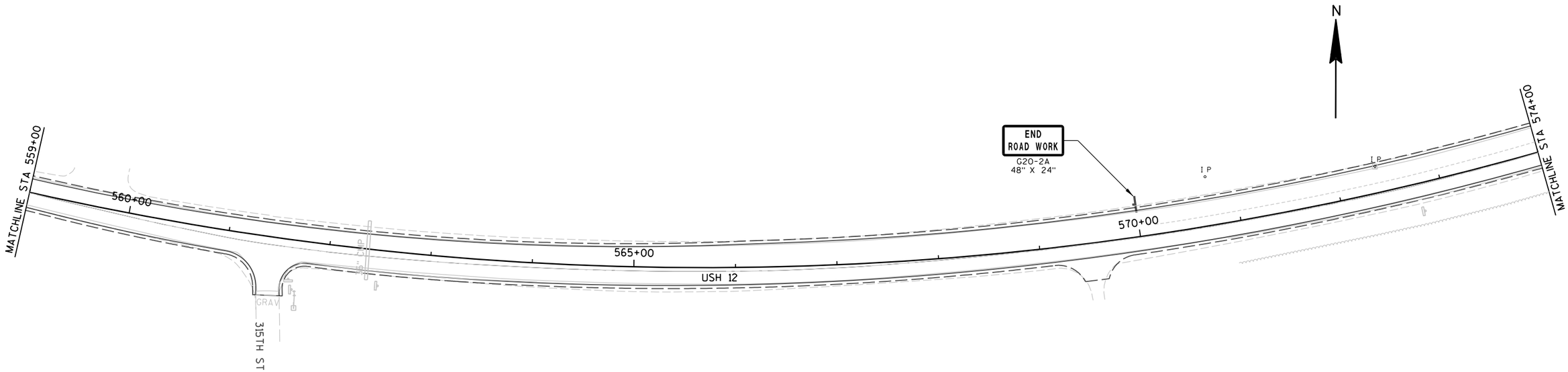


WORK ZONE

NOTE: REPLACE PIPE CULVERT PRIOR TO MILLING OPERATIONS. CULVERTS WILL BE INSTALLED 1/2 AT A TIME KEEPING ONE LANE OF TRAFFIC OPEN AT ALL TIMES.

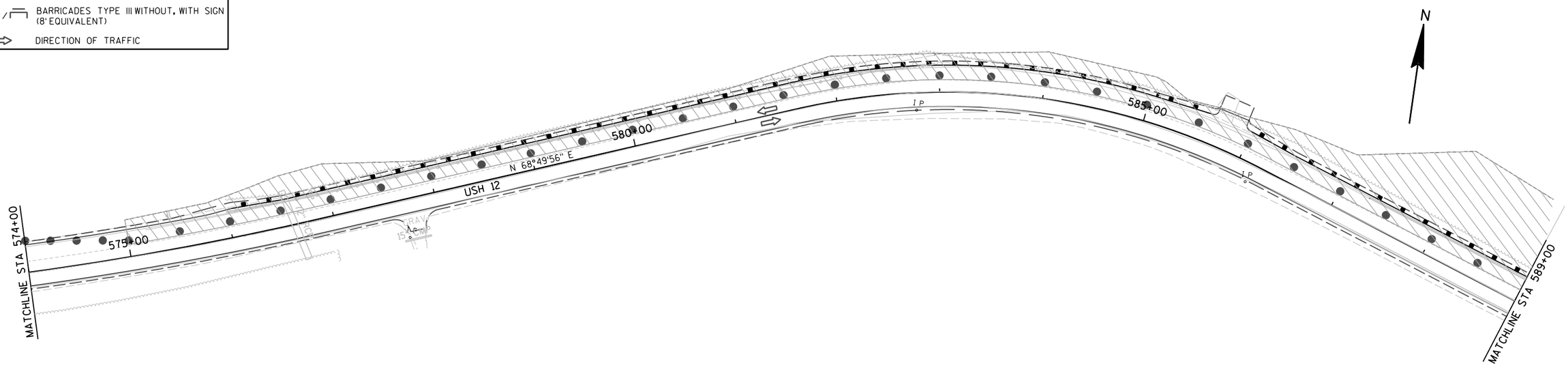
TYPICAL TRAFFIC CONTROL AT PIPE CULVERT REPLACEMENT LOCATIONS

UTILIZE SDD TRAFFIC CONTROL, FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

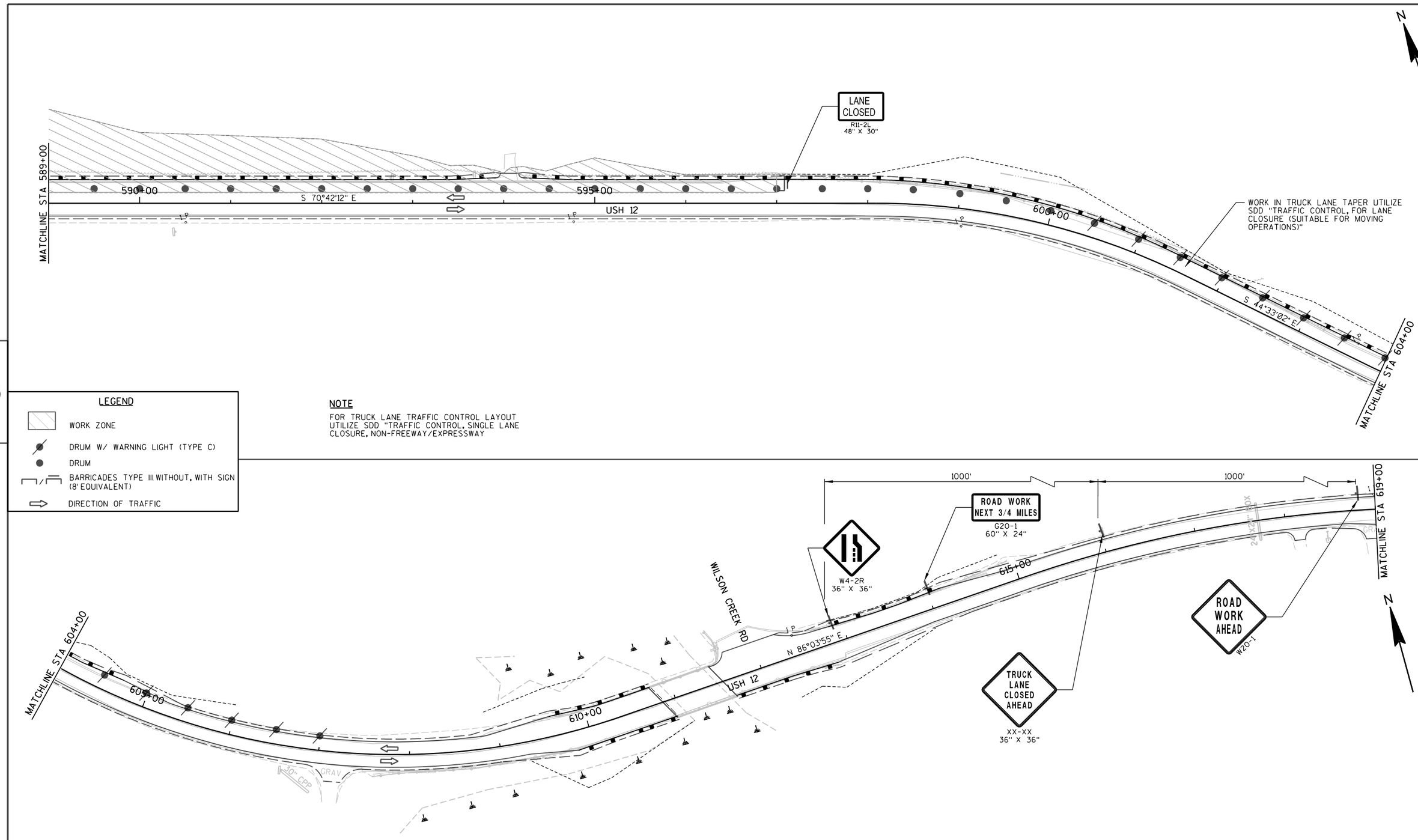


LEGEND

- WORK ZONE
- DRUM W/ WARNING LIGHT (TYPE C)
- DRUM
- BARRICADES TYPE III WITHOUT, WITH SIGN (8' EQUIVALENT)
- DIRECTION OF TRAFFIC



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST. CROIX	TRAFFIC CONTROL FOR TRUCK LANE	SHEET 45	E



5

2

LEGEND

- WORK ZONE
- DRUM W/ WARNING LIGHT (TYPE C)
- DRUM
- BARRICADES TYPE III WITHOUT, WITH SIGN (8' EQUIVALENT)
- DIRECTION OF TRAFFIC

NOTE

FOR TRUCK LANE TRAFFIC CONTROL LAYOUT UTILIZE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST. CROIX	TRAFFIC CONTROL FOR TRUCK LANE	SHEET 46	E

DATE 06JAN15 — 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	7090-05-65 QUANTITY
0010	201.0105	Clearing	STA	30.000	30.000
0020	201.0205	Grubbing	STA	30.000	30.000
0030	203.0100	Removing Small Pipe Culverts	EACH	5.000	5.000
0040	203.0200	Removing Old Structure (station) 01. 568+01.91	LS	1.000	1.000
0050	204.0100	Removing Pavement	SY	570.000	570.000
0060	204.0110	Removing Asphaltic Surface	SY	962.000	962.000
0070	204.0115	Removing Asphaltic Surface Butt Joints	SY	5,000.000	5,000.000
0080	204.0120	Removing Asphaltic Surface Milling	SY	257,571.000	257,571.000
0090	204.0125	Removing Asphaltic Surface Milling	TON	7,100.000	7,100.000
0100	204.0150	Removing Curb & Gutter	LF	913.000	913.000
0110	204.0160	Removing Lip Curb	LF	537.000	537.000
0120	205.0100	Excavation Common	CY	5,018.000	5,018.000
0130	206.2000	Excavation for Structures Culverts (structure) 01. C-17-5038	LS	1.000	1.000
0140	208.0100	Borrow	CY	4,080.000	4,080.000
0150	210.0100	Backfill Structure	CY	93.000	93.000
0160	213.0100	Finishing Roadway (project) 01. 7090-05-65	EACH	1.000	1.000
0170	305.0110	Base Aggregate Dense 3/4-Inch	TON	8,625.000	8,625.000
0180	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,680.000	1,680.000
0190	305.0500	Shaping Shoulders	STA	1,469.000	1,469.000
0200	311.0115	Breaker Run	CY	27.000	27.000
0210	440.4410.S	Incentive IRI Ride	DOL	56,690.000	56,690.000
0220	455.0605	Tack Coat	GAL	17,633.000	17,633.000
0230	460.2000	Incentive Density HMA Pavement	DOL	18,463.000	18,463.000
0240	465.0105	Asphaltic Surface	TON	8,599.000	8,599.000
0250	465.0110	Asphaltic Surface Patching	TON	50.000	50.000
0260	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	107.000	107.000
0270	502.5005	Masonry Anchors Type L No. 5 Bars	EACH	26.000	26.000
0280	504.0100	Concrete Masonry Culverts	CY	56.000	56.000
0290	505.0410	Bar Steel Reinforcement HS Culverts	LB	5,090.000	5,090.000
0300	511.1200	Temporary Shoring (structure) 01. C-17-5038	SF	600.000	600.000
0310	516.0500	Rubberized Membrane Waterproofing	SY	21.000	21.000
0320	520.7000	Cleaning Culvert Pipes	EACH	21.000	21.000
0330	522.0318	Culvert Pipe Reinforced Concrete Class IV 18-Inch	LF	116.000	116.000
0340	522.0330	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	118.000	118.000
0350	522.0342	Culvert Pipe Reinforced Concrete Class IV 42-Inch	LF	66.000	66.000
0360	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	4.000	4.000
0370	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	2.000	2.000
0380	523.0429	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	LF	54.000	54.000
0390	523.0434	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch	LF	62.000	62.000
0400	523.0529	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	2.000	2.000

3

DATE 06JAN15 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	7090-05-65 QUANTITY
0410	523.0534	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 34x53-Inch	EACH	2.000	2.000
0420	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	110.000	110.000
0430	606.0300	Riprap Heavy	CY	52.000	52.000
0440	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	3.000	3.000
0450	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	71.000	71.000
0460	614.0200	Steel Thrie Beam Structure Approach	LF	252.000	252.000
0470	614.0230	Steel Thrie Beam	LF	150.000	150.000
0480	614.0305	Steel Plate Beam Guard Class A	LF	2,025.000	2,025.000
0490	614.0345	Steel Plate Beam Guard Short Radius	LF	120.000	120.000
0500	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	17.000	17.000
0510	614.0390	Steel Plate Beam Guard Short Radius Terminal	EACH	3.000	3.000
0520	614.0396	Guardrail Mow Strip Asphalt	SY	1,225.000	1,225.000
0530	614.0920	Salvaged Rail	LF	6,100.000	6,100.000
0540	614.0925	Salvaged Guardrail End Treatments	EACH	45.000	45.000
0550	614.2300	Mgs Guardrail 3	LF	3,700.000	3,700.000
0560	614.2340	Mgs Guardrail 3 L	LF	225.000	225.000
0570	614.2500	Mgs Thrie Beam Transition	LF	113.000	113.000
0580	614.2610	Mgs Guardrail Terminal EAT	EACH	25.000	25.000
0590	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7090-05-65	EACH	1.000	1.000
0600	619.1000	Mobilization	EACH	1.000	1.000
0610	625.0100	Topsoil	SY	15,305.000	15,305.000
0620	627.0200	Mulching	SY	16,474.000	16,474.000
0630	628.1504	Silt Fence	LF	9,835.000	9,835.000
0640	628.1520	Silt Fence Maintenance	LF	9,835.000	9,835.000
0650	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0660	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0670	628.2006	Erosion Mat Urban Class I Type A	SY	8,000.000	8,000.000
0680	628.6505	Soil Stabilizer Type A	ACRE	1.600	1.600
0690	628.7504	Temporary Ditch Checks	LF	70.000	70.000
0700	628.7555	Culvert Pipe Checks	EACH	56.000	56.000
0710	629.0205	Fertilizer Type A	CWT	12.100	12.100
0720	630.0120	Seeding Mixture No. 20	LB	541.000	541.000
0730	630.0200	Seeding Temporary	LB	541.000	541.000
0740	633.5200	Markers Culvert End	EACH	68.000	68.000
0750	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	39.000	39.000
0760	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	172.000	172.000
0770	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	42.000	42.000
0780	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	6.000	6.000
0790	637.2210	Signs Type II Reflective H	SF	1,103.680	1,103.680
0800	637.2230	Signs Type II Reflective F	SF	653.390	653.390
0810	638.2602	Removing Signs Type II	EACH	218.000	218.000
0820	638.3000	Removing Small Sign Supports	EACH	229.000	229.000
0830	642.5001	Field Office Type B	EACH	1.000	1.000
0840	643.0100	Traffic Control (project) 01. 7090-05-65	EACH	1.000	1.000
0850	643.0300	Traffic Control Drums	DAY	4,510.000	4,510.000
0860	643.0420	Traffic Control Barricades Type III	DAY	20.000	20.000
0870	643.0705	Traffic Control Warning Lights Type A	DAY	40.000	40.000
0880	643.0715	Traffic Control Warning Lights Type C	DAY	280.000	280.000
0890	643.0900	Traffic Control Signs	DAY	8,348.000	8,348.000

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DATE 06JAN15 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	7090-05-65 QUANTITY
0900	645.0105	Geotextile Fabric Type C	SY	88.000	88.000
0910	645.0120	Geotextile Fabric Type HR	SY	79.000	79.000
0920	646.0106	Pavement Marking Epoxy 4-Inch	LF	149,860.000	149,860.000
0930	646.0126	Pavement Marking Epoxy 8-Inch	LF	400.000	400.000
0940	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	149,860.000	149,860.000
0950	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	83.000	83.000
0960	647.0576	Pavement Marking Stop Line Epoxy 24-Inch	LF	41.000	41.000
0970	648.0100	Locating No-Passing Zones	MI	14.170	14.170
0980	649.0100	Temporary Pavement Marking 4-Inch	LF	150,060.000	150,060.000
0990	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	110.000	110.000
1000	650.6000	Construction Staking Pipe Culverts	EACH	7.000	7.000
1010	650.6500	Construction Staking Structure Layout (structure) 01. C-17-5038	LS	1.000	1.000
1020	650.8000	Construction Staking Resurfacing Reference	LF	74,828.000	74,828.000
1030	650.9910	Construction Staking Supplemental Control (project) 01. 7090-05-65	LS	1.000	1.000
1040	650.9920	Construction Staking Slope Stakes	LF	74,828.000	74,828.000
1050	690.0150	Sawing Asphalt	LF	1,744.000	1,744.000
1060	690.0250	Sawing Concrete	LF	58.000	58.000
1070	715.0502	Incentive Strength Concrete Structures	DOL	500.000	500.000
1080	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000
1090	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	990.000	990.000
1100	SPV.0060	Special 01. Utility Line Opening	EACH	2.000	2.000
1110	SPV.0090	Special 01. Regrade Ditch	LF	200.000	200.000
1120	SPV.0090	Special 02. Clean Ditch	LF	270.000	270.000
1130	SPV.0090	Special 03. Concrete Curb And Gutter Cure And Seal Treatment	LF	110.000	110.000
1140	SPV.0105	Special 01. Prepare Foundation For Asphaltic Paving	LS	1.000	1.000
1150	SPV.0105	Special 02. Material Transfer Vehicle Special	LS	1.000	1.000
1160	SPV.0170	Special 01. Reheating Hma Pavement Longitudinal Joints Special	STA	747.000	747.000
1170	SPV.0195	Special 01. Hma Pavement Type E-3 Special	TON	28,848.000	28,848.000

REMOVAL ITEMS

STATION	LOCATION	204.0100 REMOVING PAVEMENT SY	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	204.0125 REMOVING ASPHALTIC SURFACE MILLING TON	204.0150 REMOVING CURB & GUTTER LF	204.0160 REMOVING LIP CURB LF	REMARKS
USH 12									
10+00 - 26+99.77 BK	LT & RT	-	-	600	5679	-	-	-	INITIAL 2" FULL MILLING, ST. CROIX COUNTY
10+00 - 26+99.77 BK	LT & RT	-	-	-	-	1134	-	-	30% SECONDARY 3" MILLING 7 FEET FROM CENTERLINE, ST. CROIX COUNTY
10+00 - 26+99.77 BK	LT & RT	-	49	-	-	-	-	-	DRIVEWAYS
495+65 AH - 646+19.4	LT & RT	-	-	800	54995	-	-	-	INITIAL 2" FULL MILLING, ST. CROIX COUNTY
495+65 AH - 646+19.4	LT & RT	-	-	-	-	1180	-	-	30% SECONDARY 3" MILLING 7 FEET FROM CENTERLINE, ST. CROIX COUNTY
495+65 AH - 646+19.4	LT & RT	-	83	-	-	-	-	-	DRIVEWAYS
587+29.60 - 596+42.20	LT	-	-	-	-	-	913	-	
0+00 - 113+37.88	LT & RT	-	-	600	37638	-	-	-	INITIAL 2" FULL MILLING, DUNN COUNTY
0+00 - 113+37.88	LT & RT	-	-	-	-	889	-	-	30% SECONDARY 3" MILLING 7 FEET FROM CENTERLINE, DUNN COUNTY
0+00 - 113+37.88	LT & RT	-	96	-	-	-	-	-	DRIVEWAYS
113+37.88 - 186+65.88	LT & RT	-	-	400	26789	-	-	-	INITIAL 2" FULL MILLING, DUNN COUNTY
113+37.88 - 186+65.88	LT & RT	-	-	-	-	657	-	-	30% SECONDARY 3" MILLING 7 FEET FROM CENTERLINE, DUNN COUNTY
113+37.88 - 186+65.88	LT & RT	-	178	-	-	-	-	-	DRIVEWAYS
132+50 - 133+50	LT & RT	115	-	-	-	-	-	-	PIPE REPLACEMENT
137+50 - 138+00	LT & RT	55	-	-	-	-	-	-	PIPE REPLACEMENT
186+65.88 - 446+73.38	LT & RT	-	-	1400	84319	-	-	-	INITIAL 2" FULL MILLING, DUNN COUNTY
186+65.88 - 446+73.38	LT & RT	-	-	-	-	2039	-	-	30% SECONDARY 3" MILLING 7 FEET FROM CENTERLINE, DUNN COUNTY
186+65.88 - 446+73.38	LT & RT	-	266	-	-	-	-	-	DRIVEWAYS
200+00 - 201+00	LT & RT	115	-	-	-	-	-	-	PIPE REPLACEMENT
287+50 - 288+00	LT & RT	55	-	-	-	-	-	-	PIPE REPLACEMENT
375+00 - 376+00	LT & RT	115	-	-	-	-	-	-	PIPE REPLACEMENT
441+00 - 442+00	LT & RT	115	-	-	-	-	-	-	PIPE REPLACEMENT
446+73.38 - 580+75	LT & RT	-	-	1200	48151	-	-	-	INITIAL 2" FULL MILLING, DUNN COUNTY
446+73.38 - 580+75	LT & RT	-	-	-	-	1201	-	-	30% SECONDARY 3" MILLING 7 FEET FROM CENTERLINE, DUNN COUNTY
446+73.38 - 580+75	LT & RT	-	290	-	-	-	-	-	DRIVEWAYS
565+86.2 - 571+23.1	RT	-	-	-	-	-	-	537	
ITEM TOTALS		570	962	5000	257571	7100	913	537	

EXCAVATION

STATION	LOCATION	205.0100 COMMON CY	AIR FILL CY	*EXPANDED FILL CY	208.0100 BORROW CY	REMARKS
USH 12						
547+75 - 549+60	LT	35	19	25	-10	ST. CROIX COUNTY DRIVEWAY/CURB & GUTTER
574+50 - 606+50	LT	1135	4096	5325	4190	ST. CROIX COUNTY TRUCK LANE
608+87 - 614+87	LT & RT	81	462	601	520	ST. CROIX COUNTY BEAM GUARD
637+75 - 639+94	RT	10	14	18	8	ST. CROIX COUNTY BEAM GUARD
8+00 - 9+66	LT & RT	47	279	363	316	DUNN COUNTY BEAM GUARD
10+75 - 12+22	LT & RT	12	165	215	203	DUNN COUNTY BEAM GUARD
73+00 - 77+88	LT & RT	72	186	242	170	DUNN COUNTY BEAM GUARD
132+00 - 134+00	~	365	4	5	-360	DUNN COUNTY PIPE REPLACEMENT
137+00 -138+50	~	245	15	20	-225	DUNN COUNTY PIPE REPLACEMENT
199+50 - 201+50	~	435	115	150	-285	DUNN COUNTY PIPE REPLACEMENT
272+25 - 280+27	LT & RT	544	595	774	230	DUNN COUNTY BEAM GUARD
287+00 - 288+50	~	305	0	0	-305	DUNN COUNTY PIPE REPLACEMENT
293+27 - 294+35	RT	7	52	68	61	DUNN COUNTY BEAM GUARD
300+00 - 301+41	RT	23	17	22	-1	DUNN COUNTY BEAM GUARD
308+65 - 312+89	LT & RT	264	325	422	158	DUNN COUNTY BEAM GUARD
374+50 - 376+50	~	355	0	0	-355	DUNN COUNTY PIPE REPLACEMENT
414+25 - 424+59	LT & RT	102	385	500	398	DUNN COUNTY BEAM GUARD
440+50 - 442+50	~	380	4	5	-375	DUNN COUNTY PIPE REPLACEMENT
460+75 - 465+53	LT & RT	95	59	77	-18	DUNN COUNTY BEAM GUARD
564+25 - 565+80	RT	24	4	5	-19	DUNN COUNTY BEAM GUARD
571+14 - 573+87	RT	146	89	116	-30	DUNN COUNTY BEAM GUARD
574+20 - 575+74	LT & RT	258	91	118	-140	DUNN COUNTY BEAM GUARD
577+00 - 578+47	LT & RT	78	21	27	-51	DUNN COUNTY BEAM GUARD
ITEM TOTALS		5018	6997	9098	4080	

CLEARING/GRUBBING

STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA	REMARKS
USH 12				
546+50 - 547+50	LT (OUTSIDE R/W)	1	1	ST CROIX COUNTY. DISCUSS WITH PROPERTY OWNER PRIOR TO REMOVAL
575+00 - 603+00	LT	28	28	ST CROIX COUNTY
567+00 - 569+00	LT & RT	1	1	DUNN COUNTY
ITEM TOTALS		30	30	

PREPARE FOUNDATION FOR ASPHALTIC PAVING

STATION	SPV.0105.01 SPECIAL LS
USH 12	1
ITEM TOTAL	1

FINISHING ROADWAY (7090-05-65)

STATION	213.0100 EACH
USH 12	1
ITEM TOTAL	1

3

BASE AGGREGATE DENSE

STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	REMARKS
USH 12				
10+00 - 26+99.77 BK	LT & RT	190	-	ST. CROIX COUNTY
495+65 AH - 646+19.4	LT & RT	1685	1200	ST. CROIX COUNTY
0+00 - 113+37.88	LT & RT	1335	-	DUNN COUNTY
113+37.88 - 186+65.88	LT & RT	85	-	DUNN COUNTY
132+50 - 133+50	LT & RT	-	75	DUNN COUNTY PIPE REPLACEMENT
137+50 - 138+00	LT & RT	-	40	DUNN COUNTY PIPE REPLACEMENT
186+65.88 - 446+73.38	LT & RT	3055	-	DUNN COUNTY
200+00 - 201+00	LT & RT	-	75	DUNN COUNTY PIPE REPLACEMENT
287+50 - 288+00	LT & RT	-	40	DUNN COUNTY PIPE REPLACEMENT
375+00 - 376+00	LT & RT	-	75	DUNN COUNTY PIPE REPLACEMENT
441+00 - 442+00	LT & RT	-	75	DUNN COUNTY PIPE REPLACEMENT
446+73.38 - 580+75	LT & RT	2075	-	DUNN COUNTY
UNDISTRIBUTED		200	100	
ITEM TOTALS		8625	1680	

SHAPING SHOULDERS

STATION	LOCATION	305.0500 STA
USH 12		
10+00 - 26+99.77 BK	LT & RT	34
495+65 AH - 576+00	LT & RT	162
576+00 - 605+00	LT & RT	29
605 - 646+19.4	LT & RT	82
0+00 - 580+75	LT & RT	1162
ITEM TOTAL		1469

3

ASPHALT PAVING

STATION	LOCATION	455.0605 TACK COAT GAL	465.0105 ASPHALTIC SURFACE TON	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	SPV.0105.02 MATERIAL TRANSFER VEHICLE SPECIAL LS	SPV.0195.01 HMA PAVEMENT TYPE E-3 SPECIAL TON	REMARKS
USH 12						1		
10+00 - 26+99.77 BK	LT & RT	341	-	-	-	-	636	MAINLINE & SIDEROADS
10+00 - 26+99.77 BK	LT & RT	-	-	-	5	-	-	DRIVEWAYS
10+00 - 26+99.77 BK	LT & RT	48	133	-	-	-	-	ASPHALTIC SURFACE PARTIAL DEPTH REPAIR AREA
10+00 - 26+99.77 BK	LT & RT	-	-	1	-	-	-	FOR POT HOLES, POP OUTS, RAMPING AT BUTT JOINTS
10+00 - 26+99.77 BK	LT & RT	-	57	-	-	-	-	LEVELING & WEDGING
495+65 AH - 646+19.4	LT & RT	3300	-	-	-	-	6159	MAINLINE & SIDEROADS
495+65 AH - 646+19.4	LT & RT	-	-	-	9	-	-	DRIVEWAYS
495+65 AH - 646+19.4	LT & RT	422	1180	-	-	-	-	ASPHALTIC SURFACE PARTIAL DEPTH REPAIR AREA
495+65 AH - 646+19.4	LT & RT	-	-	10	-	-	-	FOR POT HOLES, POP OUTS, RAMPING AT BUTT JOINTS
495+65 AH - 646+19.4	LT & RT	-	503	-	-	-	-	LEVELING & WEDGING
0+00 - 113+37.88	LT & RT	2258	-	-	-	-	4215	MAINLINE & SIDEROADS
0+00 - 113+37.88	LT & RT	-	-	-	11	-	-	DRIVEWAYS
0+00 - 113+37.88	LT & RT	317	889	-	-	-	-	ASPHALTIC SURFACE PARTIAL DEPTH REPAIR AREA
0+00 - 113+37.88	LT & RT	-	-	8	-	-	-	FOR POT HOLES, POP OUTS, RAMPING AT BUTT JOINTS
0+00 113+37.88	LT & RT	-	379	-	-	-	-	LEVELING & WEDGING
113+37.88 - 186+65.88	LT & RT	1608	-	-	-	-	3001	MAINLINE & SIDEROADS
113+37.88 - 186+65.88	LT & RT	-	-	-	20	-	-	DRIVEWAYS
113+37.88 - 186+65.88	LT & RT	234	657	-	-	-	-	ASPHALTIC SURFACE PARTIAL DEPTH REPAIR AREA
113+37.88 - 186+65.88	LT & RT	-	-	5	-	-	-	FOR POT HOLES, POP OUTS, RAMPING AT BUTT JOINTS
113+37.88 - 186+65.88	LT & RT	-	245	-	-	-	-	LEVELING & WEDGING
186+65.88 - 446+73.38	LT & RT	5059	-	-	-	-	9444	MAINLINE & SIDEROADS
186+65.88 - 446+73.38	LT & RT	-	-	-	30	-	-	DRIVEWAYS
186+65.88 - 446+73.38	LT & RT	728	2039	-	-	-	-	ASPHALTIC SURFACE PARTIAL DEPTH REPAIR AREA
186+65.88 - 446+73.38	LT & RT	-	-	17	-	-	-	FOR POT HOLES, POP OUTS, RAMPING AT BUTT JOINTS
186+65.88 - 446+73.38	LT & RT	-	869	-	-	-	-	LEVELING & WEDGING
446+73.38 - 580+75	LT & RT	2889	-	-	-	-	5393	MAINLINE & SIDEROADS
446+73.38 - 580+75	LT & RT	-	-	-	32	-	-	DRIVEWAYS
446+73.38 - 580+75	LT & RT	429	1201	-	-	-	-	ASPHALTIC SURFACE PARTIAL DEPTH REPAIR AREA
446+73.38 - 580+75	LT & RT	-	-	9	-	-	-	FOR POT HOLES, POP OUTS, RAMPING AT BUTT JOINTS
446+73.38 - 580+75	LT & RT	-	447	-	-	-	-	LEVELING & WEDGING
ITEM TOTALS		17633	8599	50	107	1	28848	

CULVERT PIPE

STATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	520.7000 CLEANING CULVERT PIPES EACH	522.0318 CULVERT PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	522.0330 30-INCH LF	522.0342 42-INCH LF	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	522.1042 42-INCH EACH	523.0429 CULVERT PIPE REINFORCED CONCRETE HORIZ. ELLIPTICAL CLASS HE-IV 29X45-INCH LF	523.0434 34X53-INCH LF	523.0529 APRON ENDWALLS FOR CPRC HORIZ. ELLIPTICAL 29X45-INCH EACH	523.0534 34X53-INCH EACH	REMARKS
USH 12												
22+15.24	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, INSTALL LEFT MARKER
22+30.09	-	-	-	-	-	-	-	-	-	-	-	INSTALL LEFT MARKER
502+18.18	-	-	-	-	-	-	-	-	-	-	-	CLEAN LEFT DITCH
508+04.27	-	-	-	-	-	-	-	-	-	-	-	CLEAN LEFT & RIGHT DITCH
513+70.92	-	-	-	-	-	-	-	-	-	-	-	CLEAN LEFT & RIGHT DITCH
529+83.74	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE
555+02.51	-	-	-	-	-	-	-	-	-	-	-	CLEAN LEFT DITCH
562+39.03	-	-	-	-	-	-	-	-	-	-	-	CLEAN LEFT & RIGHT DITCH
576+47.25	-	-	-	-	-	-	-	-	-	-	-	INSTALL LEFT & RIGHT MARKER
576+68.77	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
591+68.30	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
617+70.05	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE
630+68.87	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, CLEAN RIGHT DITCH, INSTALL RIGHT MARKER
17+08.37	-	-	-	-	-	-	-	-	-	-	-	CLEAN LEFT & RIGHT DITCH
46+24.06	-	-	-	-	-	-	-	-	-	-	-	CLEAN LEFT DITCH, INSTALL LEFT & RIGHT MARKER
47+05.94	-	-	-	-	-	-	-	-	-	-	-	INSTALL RIGHT MARKER, RIPRAP RIGHT, CLEAN LEFT & RIGHT DITCH
57+39.68	-	-	-	-	-	-	-	-	-	-	-	RIPRAP LEFT
68+82.30	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, CLEAN RIGHT DITCH, INSTALL LEFT MARKER
89+83.13	-	-	-	-	-	-	-	-	-	-	-	CLEAN LEFT & RIGHT DITCH
105+26.67	-	-	-	-	-	-	-	-	-	-	-	INSTALL LEFT & RIGHT MARKER
112+90.20	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, REGRADE LEFT DITCH, CLEAN RIGHT DITCH, INSTALL LEFT & RIGHT MARKER
117+99.15	-	-	-	-	-	-	-	-	-	-	-	REGRADE RIGHT DITCH, INSTALL LEFT & RIGHT MARKER
120+12.07	-	-	-	-	-	-	-	-	-	-	-	REGRADE LEFT & RIGHT DITCH, INSTALL RIGHT MARKER
126+67.29	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
132+98.50	-	-	58	-	-	-	-	-	-	-	-	INSTALL
133+01.50	-	-	58	-	-	-	-	-	-	-	-	INSTALL
133+02.60	1	-	-	-	-	-	-	-	-	-	-	REMOVE
137+71.92	1	-	-	-	-	-	-	54	-	2	-	REMOVE & INSTALL
151+76.78	-	-	-	-	-	-	-	-	-	-	-	CLEAN RIGHT DITCH, INSTALL LEFT & RIGHT MARKER
159+45.12	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
165+62.34	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
172+50.72	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
173+09.02	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
186+43.77	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
200+61.43	-	-	-	-	-	-	-	-	62	-	2	REMOVE & INSTALL
234+92.02	-	-	-	-	-	-	-	-	-	-	-	REGRADE LEFT & RIGHT DITCH
246+53.98	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, CLEAN LEFT & RIGHT DITCH
262+69.78	-	-	-	-	-	-	-	-	-	-	-	REGRADE LEFT & RIGHT DITCH
281+36.38	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
287+85.00	1	-	-	-	66	-	2	-	-	-	-	REMOVE & INSTALL
297+07.82	-	-	-	-	-	-	-	-	-	-	-	REGRADE LEFT & RIGHT DITCH, INSTALL LEFT & RIGHT MARKER
304+75.70	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
310+48.19	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE
353+75.05	-	-	-	-	-	-	-	-	-	-	-	REGRADE LEFT & RIGHT DITCH, INSTALL RIGHT MARKER
375+46.28	1	-	-	62	-	2	-	-	-	-	-	REMOVE & INSTALL
400+78.15	-	-	-	-	-	-	-	-	-	-	-	REGRADE LEFT & RIGHT DITCH, INSTALL LEFT & RIGHT MARKER
441+68.10	1	-	-	56	-	2	-	-	-	-	-	REMOVE & INSTALL
463+39.48	-	-	-	-	-	-	-	-	-	-	-	INSTALL LEFT MARKER
474+36.73	-	-	-	-	-	-	-	-	-	-	-	INSTALL RIGHT MARKER
480+72.22	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
485+50.25	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, INSTALL RIGHT MARKER
487+45.35	-	-	-	-	-	-	-	-	-	-	-	INSTALL LEFT & RIGHT MARKER
515+85.94	-	-	-	-	-	-	-	-	-	-	-	CLEAN LEFT DITCH
540+11.56	-	1	-	-	-	-	-	-	-	-	-	CLEAN PIPE, CLEAN LEFT & RIGHT DITCH,
568+09.29	-	-	-	-	-	-	-	-	-	-	-	INSTALL LEFT & RIGHT MARKER
574+84.28	-	-	-	-	-	-	-	-	-	-	-	INSTALL LEFT & RIGHT MARKER
ITEM TOTALS	5	21	116	118	66	4	2	54	62	2	2	

* MINIMUM STEEL THICKNESS IS 0.079 INCHES.

CULVERT PIPE CONTINUED

STATION	606.0300 ** RIPRAP HEAVY CY	633.5200 MARKERS CULVERT END EACH	645.0120 ** GEOTEXTILE FABRIC TYPE HR SY	SPV.0090.01 REGRADE DITCH LF	SPV.0090.02 CLEAN DITCH LF	REMARKS
USH 12						
22+15.24	-	1	-	-	-	CLEAN PIPE, INSTALL LEFT MARKER
22+30.09	-	1	-	-	-	INSTALL LEFT MARKER
502+18.18	-	-	-	-	10	CLEAN LEFT DITCH
508+04.27	-	-	-	-	20	CLEAN LEFT & RIGHT DITCH
513+70.92	-	-	-	-	20	CLEAN LEFT & RIGHT DITCH
529+83.74	-	-	-	-	-	CLEAN PIPE
555+02.51	-	-	-	-	10	CLEAN LEFT DITCH
562+39.03	-	-	-	-	20	CLEAN LEFT & RIGHT DITCH
576+47.25	-	2	-	-	-	INSTALL LEFT & RIGHT MARKER
576+68.77	-	2	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
591+68.30	-	2	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
617+70.05	-	-	-	-	-	CLEAN PIPE
630+68.87	-	1	-	-	-	CLEAN PIPE, CLEAN RIGHT DITCH, INSTALL RIGHT MARKER
17+08.37	-	-	-	-	20	CLEAN LEFT & RIGHT DITCH
46+24.06	-	2	-	-	10	CLEAN LEFT DITCH, INSTALL LEFT & RIGHT MARKER
47+05.94	3	1	5	-	20	INSTALL RIGHT MARKER, RIPRAP RIGHT, CLEAN LEFT & RIGHT DITCH
57+39.68	3	-	5	-	-	RIPRAP LEFT
68+82.30	-	1	-	-	10	CLEAN PIPE, CLEAN RIGHT DITCH, INSTALL LEFT MARKER
89+83.13	-	-	-	-	20	CLEAN LEFT & RIGHT DITCH
105+26.67	-	2	-	-	-	INSTALL LEFT & RIGHT MARKER
112+90.20	-	2	-	10	10	CLEAN PIPE, REGRADE LEFT DITCH, CLEAN RIGHT DITCH, INSTALL LEFT & RIGHT MARKER
117+99.15	-	2	-	10	-	REGRADE RIGHT DITCH, INSTALL LEFT & RIGHT MARKER
120+12.07	-	1	-	20	-	REGRADE LEFT & RIGHT DITCH, INSTALL RIGHT MARKER
126+67.29	-	2	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
132+98.50	-	2	-	10	-	INSTALL
133+01.50	-	2	-	10	-	INSTALL
133+02.60	-	-	-	-	-	REMOVE
137+71.92	-	2	-	20	-	REMOVE & INSTALL
151+76.78	-	2	-	-	10	CLEAN RIGHT DITCH, INSTALL LEFT & RIGHT MARKER
159+45.12	-	2	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
165+62.34	-	2	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
172+50.72	-	2	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
173+09.02	-	2	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
186+43.77	-	2	-	-	20	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
200+61.43	-	2	-	20	-	REMOVE & INSTALL
234+92.02	-	-	-	20	-	REGRADE LEFT & RIGHT DITCH
246+53.98	-	-	-	-	20	CLEAN PIPE, CLEAN LEFT & RIGHT DITCH
262+69.78	-	-	-	20	-	REGRADE LEFT & RIGHT DITCH
281+36.38	-	2	-	-	20	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
287+85.00	-	2	-	-	-	REMOVE & INSTALL
297+07.82	-	2	-	20	-	REGRADE LEFT & RIGHT DITCH, INSTALL LEFT & RIGHT MARKER
304+75.70	-	2	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
310+48.19	-	-	-	-	-	CLEAN PIPE
353+75.05	-	1	-	20	-	REGRADE LEFT & RIGHT DITCH, INSTALL RIGHT MARKER
375+46.28	-	2	-	-	-	REMOVE & INSTALL
400+78.15	-	2	-	20	-	REGRADE LEFT & RIGHT DITCH, INSTALL LEFT & RIGHT MARKER
441+68.10	-	2	-	-	-	REMOVE & INSTALL
463+39.48	-	1	-	-	-	INSTALL LEFT MARKER
474+36.73	-	1	-	-	-	INSTALL RIGHT MARKER
480+72.22	-	2	-	-	-	CLEAN PIPE, INSTALL LEFT & RIGHT MARKER
485+50.25	-	1	-	-	-	CLEAN PIPE, INSTALL RIGHT MARKER
487+45.35	-	2	-	-	-	INSTALL LEFT & RIGHT MARKER
515+85.94	-	-	-	-	10	CLEAN LEFT DITCH
540+11.56	-	-	-	-	20	CLEAN PIPE, CLEAN LEFT & RIGHT DITCH,
568+09.29	-	2	-	-	-	INSTALL LEFT & RIGHT MARKER
574+84.28	-	2	-	-	-	INSTALL LEFT & RIGHT MARKER
ITEM TOTALS	6	68	10	200	270	

** ITEM FOUND ELSEWHERE IN PLANS.

CONCRETE CURB AND GUTTER

STATION - STATION	LOCATION	601.0553 6-INCH SLOPED 36-INCH TYPE D LF	SPV.0090.03 CURE AND SEAL TREATMENT LF
USH 12			
547+55.65 - 548+66.12	LT	110	110
ITEM TOTALS		110	110

GUARDRAIL ITEMS

STATION	LOCATION	614.0200 STEEL THRIE BEAM STRUCTURE APPROACH LF	614.0230 STEEL THRIE BEAM LF	614.0305 STEEL PLATE BEAM GUARD CLASS A LF	614.0345 STEEL PLATE BEAM GUARD SHORT RADIUS LF	614.0370 STEEL PLATE BEAM GUARD EAT EACH	614.0390 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL EACH	614.0396 GUARDRAIL MOW STRIP ASPHALT SY	614.0920 SALVAGED RAIL LF	614.0925 SALVAGED GUARDRAIL END TREATMENTS EACH	614.2300 MGS GUARDRAIL 3 LF	614.2340 MGS GUARDRAIL 3L LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	REMARKS
USH 12															
547+52.2 - 548+67.8	LT	-	-	-	-	-	-	-	115	2	-	-	-	-	ST. CROIX COUNTY
576+04.47 - 576+58.03	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	ST. CROIX COUNTY
576+58.03 - 585+06.95	LT	-	-	-	-	-	-	335	603	2	862.5	-	-	-	ST. CROIX COUNTY
585+06.95 - 585+57.97	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	ST. CROIX COUNTY
585+97.65 - 586+50.77	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	ST. CROIX COUNTY
586+50.77 - 593+38.27	LT	-	-	-	-	-	-	270	-	-	687.5	-	-	-	ST. CROIX COUNTY
593+38.27 - 593+91.36	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	ST. CROIX COUNTY
594+21.36 - 594+74.44	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	ST. CROIX COUNTY
594+74.44- 604+15.27	LT	-	-	-	-	-	-	370	591	2	950	-	-	-	ST. CROIX COUNTY
604+15.27- 604+69.74	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	ST. CROIX COUNTY
607+59.2 - 612+85.5	RT	-	-	-	-	-	-	-	465	2	-	-	-	-	ST. CROIX COUNTY
609+40.6 - 611+52.65	LT	-	-	-	-	-	-	-	132	1	-	-	-	-	ST. CROIX COUNTY
609+59.74 - 610+14.36	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	ST. CROIX COUNTY
609+82.62 - 610+34.30	RT	-	-	-	-	-	-	-	-	-	-	-	-	1	ST. CROIX COUNTY
610+14.36 - 610+39.96	LT	-	-	-	-	-	-	-	-	-	25	-	-	-	ST. CROIX COUNTY
610+34.30 - 610+59.23	RT	-	-	-	-	-	-	-	-	-	25	-	-	-	ST. CROIX COUNTY
610+39.96 - 610+77.46	LT	-	-	-	-	-	-	-	-	-	-	-	37.5	-	ST. CROIX COUNTY
610+59.23 - 610+96.73	RT	-	-	-	-	-	-	-	-	-	-	-	37.5	-	ST. CROIX COUNTY
611+66.43 - 612+03.93	RT	-	-	-	-	-	-	-	-	-	-	-	37.5	-	ST. CROIX COUNTY
612+03.93 - 612+28.93	RT	-	-	-	-	-	-	-	-	-	25	-	-	-	ST. CROIX COUNTY
612+28.93 - 612+81.99	RT	-	-	-	-	-	-	-	-	-	-	-	-	1	ST. CROIX COUNTY
612+64.11 - 614+93.5	LT	-	-	-	-	-	-	-	230	2	-	-	-	-	ST. CROIX COUNTY
612+84.38 - 613+37.50	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	ST. CROIX COUNTY
613+37.50 - 613+62.50	LT	-	-	-	-	-	-	-	-	-	25	-	-	-	ST. CROIX COUNTY
613+62.50 - 614+15.63	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	ST. CROIX COUNTY
619+25.9 - 619+75.9	RT	-	-	-	-	1	-	-	-	1	-	-	-	-	ST. CROIX COUNTY
638+19.22 - 638+69.22	RT	-	-	50	-	-	-	-	50	-	-	-	-	-	ST. CROIX COUNTY
638+69.22 - 639+19.22	RT	-	-	-	-	1	-	-	-	1	-	-	-	-	ST. CROIX COUNTY
9+09.97 - 9+63.09	RT	-	-	-	-	-	-	-	-	-	-	-	-	1	DUNN COUNTY
9+16.22 - 9+69.34	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	DUNN COUNTY
9+63.09 - 9+75.59	RT	-	-	-	-	-	-	-	-	-	12.5	-	-	-	DUNN COUNTY
9+69.34 - 10+81.84	LT	-	-	-	-	-	-	-	173.7	2	-	112.5	-	-	DUNN COUNTY
9+75.59 - 10+88.09	RT	-	-	-	-	-	-	-	120.1	2	-	112.5	-	-	DUNN COUNTY
10+81.84 - 10+94.34	LT	-	-	-	-	-	-	-	-	-	12.5		-	-	DUNN COUNTY
10+88.09 - 11+41.22	RT	-	-	-	-	-	-	-	-	-	-	-	-	1	DUNN COUNTY
10+94.34 - 11+47.47	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	DUNN COUNTY
73+93.31 - 74+42.85	RT	-	-	-	-	1	-	-	-	-	-	-	-	-	DUNN COUNTY
74+42.85 - 74+92.41	RT	-	-	50	-	-	-	-	52.3	1	-	-	-	-	DUNN COUNTY
74+68.03 - 74+68.30	LT	-	-	-	-	-	1	-	-	-	-	-	-	-	DUNN COUNTY
74+68.30 - 74+91.33	LT	-	-	-	44	-	-	-	96.8	1	-	-	-	-	DUNN COUNTY
74+91.33 - 75+12.16	LT	21	-	-	-	-	-	-	-	-	-	-	-	-	DUNN COUNTY
74+92.41 - 75+12.87	RT	21	-	-	-	-	-	-	-	-	-	-	-	-	DUNN COUNTY
76+06.03 - 76+26.49	RT	21	-	-	-	-	-	-	-	-	-	-	-	-	DUNN COUNTY
76+06.67 - 76+27.50	LT	21	-	-	-	-	-	-	-	-	-	-	-	-	DUNN COUNTY
76+26.49 - 76+76.05	RT	-	-	50	-	-	-	-	99.7	1	-	-	-	-	DUNN COUNTY
76+27.50 - 76+77.95	LT	-	-	50	-	-	-	-	97.2	1	-	-	-	-	DUNN COUNTY
76+76.05 - 77+25.60	RT	-	-	-	-	1	-	-	-	-	-	-	-	-	DUNN COUNTY
76+77.95 - 77+28.41	LT	-	-	-	-	1	-	-	-	-	-	-	-	-	DUNN COUNTY
273+96.63 - 274+46.63	LT	-	-	-	-	1	-	-	-	-	-	-	-	-	DUNN COUNTY
274+46.63 - 274+96.63	LT	-	-	50	-	-	-	-	90.6	1	-	-	-	-	DUNN COUNTY
274+56.33	RT	-	-	-	-	-	1	-	-	-	-	-	-	-	DUNN COUNTY
274+56.33 - 274+70.58	RT	-	-	-	32	-	-	-	-	-	-	-	-	-	DUNN COUNTY
274+70.58 - 275+20.58	RT	-	-	50	-	-	-	-	90.6	1	-	-	-	-	DUNN COUNTY
274+96.63 - 275+17.28	LT	21	-	-	-	-	-	-	-	-	-	-	-	-	DUNN COUNTY
275+17.28 - 275+92.27	LT	-	75	-	-	-	-	-	-	-	-	-	-	-	DUNN COUNTY
275+20.58 - 275+41.22	RT	21	-	-	-	-	-	-	-	-	-	-	-	-	DUNN COUNTY
275+41.22 - 276+16.22	RT	-	75	-	-	-	-	-	-	-	-	-	-	-	DUNN COUNTY
275+92.27 - 276+12.92	LT	21	-	-	-	-	-	-	-	-	-	-	-	-	DUNN COUNTY
276+12.92 - 278+62.92	LT	-	-	250	-	-	-	-	313.4	1	-	-	-	-	DUNN COUNTY
276+16.22 - 276+36.87	RT	21	-		-	-	-	-	-	-	-	-	-	-	DUNN COUNTY
276+36.87 - 278+86.87	RT	-	-	250	-	-	-	-	308.5	1	-	-	-	-	DUNN COUNTY
278+62.92 - 279+12.92	LT	-	-	-	-	1	-	-	-	-	-	-	-	-	DUNN COUNTY
278+86.78 - 279+36.87	RT	-	-	-	-	1	-	-	-	-	-	-	-	-	DUNN COUNTY
SUB TOTAL		168	150	800	76	8	2	975	3629	25	2625	225	113	15	

GUARDRAIL ITEMS CONTINUED

STATION	LOCATION	614.0200 STEEL THRIE BEAM STRUCTURE APPROACH LF	614.0230 STEEL THRIE BEAM LF	614.0305 STEEL PLATE BEAM GUARD CLASS A LF	614.0345 STEEL PLATE BEAM GUARD SHORT RADIUS LF	614.0370 STEEL PLATE BEAM GUARD EAT EACH	614.0390 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL EACH	614.0396 GUARDRAIL MOW STRIP ASPHALT SY	614.0920 SALVAGED RAIL LF	614.0925 SALVAGED GUARDRAIL END TREATMENTS EACH	614.2300 MGS GUARDRAIL 3 LF	614.2340 MGS GUARDRAIL 3L LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS TERMINAL EAT EACH	REMARKS
															DUNN COUNTY
293+85.11 - 294+37.78	RT	-	-	-	-	-	-	-	-	-		-	-	1	DUNN COUNTY
294+37.78 - 300+12.45	RT	-	-	-	-	-	-	-	528.3	2	575	-	-	-	DUNN COUNTY
300+12.45 - 300+65.57	RT	-	-	-	-	-	-	-	-	-	-	-	-	1	DUNN COUNTY
309+40.28 - 309+93.40	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	DUNN COUNTY
309+83.21 - 310+36.33	RT	-	-	-	-	-	-	-	-	-	-	-	-	1	DUNN COUNTY
309+93.40 - 311+18.41	LT	-	-	-	-	-	-	-	155.5	2	125	-	-	-	DUNN COUNTY
310+36.33 - 311+61.33	RT	-	-	-	-	-	-	-	149.4	2	125	-	-	-	DUNN COUNTY
311+18.41 - 311+71.53	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	DUNN COUNTY
311+61.33 - 312+14.46	RT	-	-	-	-	-	-	-	-	-	-	-	-	1	DUNN COUNTY
414+44.90 - 414+51.24	LT	-	-	-	-	-	1	-	-	-	-	-	-	-	DUNN COUNTY
414+51.24 - 414+85.29	LT	-	-	-	44	-	-	-	-	-	-	-	-	-	DUNN COUNTY
414+53.37 - 415+02.87	RT	-	-	-	-	1	-	-	-	-	-	-	-	-	DUNN COUNTY
414+85.29 - 415+35.79	LT	-	-	50	-	-	-	-	69.8	1	-	-	-	-	DUNN COUNTY
415+02.87 - 415+52.52	RT	-	-	50	-	-	-	-	68.7	1	-	-	-	-	DUNN COUNTY
415+35.79 - 415+56.47	LT	21	-	-	-	-	-	-	-	-	-	-	-	-	DUNN COUNTY
415+52.52 - 415+73.17	RT	21	-	-	-	-	-	-	-	-	-	-	-	-	DUNN COUNTY
417+71.14 - 417+91.78	LT	21	-	-	-	-	-	-	-	-	-	-	-	-	DUNN COUNTY
417+86.31 - 418+06.96	RT	21	-	-	-	-	-	-	-	-	-	-	-	-	DUNN COUNTY
417+91.78 - 423+40.12	LT	-	-	550	-	-	-	-	387.2	1	-	-	-	-	DUNN COUNTY
418+06.96 - 418+56.96	RT	-	-	50	-	-	-	-	66.8	1	-	-	-	-	DUNN COUNTY
418+56.96 - 419+06.96	RT	-	-	-	-	1	-	-	-	-	-	-	-	-	DUNN COUNTY
423+40.12 - 423+89.74	LT	-	-	-	-	1	-	-	-	-	-	-	-	-	DUNN COUNTY
461+76.73 - 462+29.85	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	DUNN COUNTY
462+31.63 - 462+84.76	RT	-	-	-	-	-	-	-	-	-	-	-	-	1	DUNN COUNTY
462+29.85 - 463+54.85	LT	-	-	-	-	-	-	-	128.3	2	125	-	-	-	DUNN COUNTY
462+84.76 - 464+09.76	RT	-	-	-	-	-	-	-	141.8	2	125	-	-	-	DUNN COUNTY
463+54.85 - 464+07.98	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	DUNN COUNTY
464+09.76 - 464+62.88	RT	-	-	-	-	-	-	-	-	-	-	-	-	1	DUNN COUNTY
565+29.03 - 565+79.81	RT	-	-	-	-	1	-	-	-	-	-	-	-	-	DUNN COUNTY
565+29.2 - 571+64.1	RT	-	-	-	-	-	-	250	-	-	-	-	-	-	DUNN COUNTY
565+79.81 - 571+13.51	RT	-	-	525	-	-	-	-	625.5	2	-	-	-	-	DUNN COUNTY
571+13.51 - 571+63.78	RT	-	-	-	-	1	-	-	-	-	-	-	-	-	DUNN COUNTY
574+90.20 - 575+40.20	RT	-	-	-	-	1	-	-	50	1	-	-	-	-	DUNN COUNTY
575+23.72 - 575+73.72	LT	-	-	-	-	1	-	-	50	1	-	-	-	-	DUNN COUNTY
577+21.03 - 577+71.03	RT	-	-	-	-	1	-	-	50	1	-	-	-	-	DUNN COUNTY
577+51.09 - 578+01.09	LT	-	-	-	-	1	-	-	-	1	-	-	-	-	DUNN COUNTY
															DUNN COUNTY
SUBTOTAL		84	0	1225	44	9	1	250	2471.3	20	1075	0	0	10	
ITEM TOTALS		252	150	2025	120	17	3	1225	6100	45	3700	225	113	25	

MAINTENANCE AND REPAIR OF HAUL ROADS (7090-05-65)

STATION	618.0100 EACH
USH 12	1
ITEM TOTAL	1

MOBILIZATION

STATION	619.1000 EACH
USH 12	
CATEGORY 0010	0.98
CATEGORY 0020	0.02
ITEM TOTAL	1

TOPSOIL, MULCHING AND SEEDING

STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	629.0205 FERTILIZER TYPE A CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB	REMARKS
USH 12							
547+33 - 548+90	LT	133	171	0.1	6	6	ST. CROIX COUNTY
575+00 - 606+00	LT	7065	7932	4.4	217	217	ST. CROIX COUNTY
132+50 - 133+50	LT & RT	151	193	0.1	4	4	DUNN COUNTY
137+50 - 138+00	LT & RT	93	122	0.1	4	4	DUNN COUNTY
200+00 - 201+00	LT & RT	241	296	0.1	8	8	DUNN COUNTY
287+50 - 288+00	LT & RT	103	131	0.1	3	3	DUNN COUNTY
375+00 - 376+00	LT & RT	154	209	0.1	5	5	DUNN COUNTY
441+00 - 442+00	LT & RT	165	220	0.1	6	6	DUNN COUNTY
UNDISTRIBUTED	LT & RT	7200	7200	7	288	288	GUARDRAIL LOCATIONS NOT LOCATED ABOVE
ITEM TOTALS		15305	16474	12.1	541	541	

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EROSION CONTROL ITEMS

STATION	LOCATION	628.15 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.6505 SOIL STABILIZER TYPE A ACRE	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH
USH 12							
547+00 - 549+50	LT	260	260				
575+00 - 606+00	LT	3200	3200	7800	1.6		
583+50	LT					10	
584+50	LT					10	
609+00 - 615+00	LT & RT	765	765				
638+50 - 639+50	RT	100	100				
8+25 - 12+25	LT & RT	400	400				
73+25 - 78+00	RT	250	250				
132+50 - 133+25	LT & RT	180	180				16
137+50 - 138+00	LT & RT	160	160				8
200+00 - 201+00	LT & RT	270	270				8
272+25 - 280+50	LT & RT	600	600				
287+50 - 288+00	LT & RT	170	170				8
293+25 - 294+50	RT	125	125				
300+00 - 301+50	RT	125	125				
308+50 - 313+00	LT & RT	550	550				
375+00 - 376+00	LT & RT	245	245				8
414+25 - 419+50	LT & RT	275	275				
441+00 - 442+00	LT & RT	220	220				8
460+75 - 465+50	LT & RT	600	600				
567+50 - 568+50	RT	110	110				
571+00 - 579+50	LT & RT	900	900				
UNDISTRIBUTED		330	330	200		50	
ITEM TOTALS		9835	9835	8000	1.6	70	56

PAVEMENT MARKING

STATION	LOCATION	646.0106 EPOXY 4-INCH LF	646.0126 (CHANNELIZING) EPOXY 8-INCH LF	646.0406 SAME DAY EPOXY 4-INCH LF	647.0566 STOP LINE EPOXY 18-INCH LF	647.0576 STOP LINE EPOXY 24-INCH LF	649.0100 TEMPORARY 4-INCH LF	REMARKS
USH 12								
10+00 - 580+75	LT & RT	149660	-	-	-	-	-	WHITE EDGE
10+00 - 580+75	LT & RT	-	-	149660	-	-	149660	YELLOW CENTERLINE
WILSON ST	LT	-	-	-	50	-	-	WHITE
STH 79	LT & RT	200	-	-	-	-	200	WHITE EDGE
	LT & RT	-	-	200	-	-	200	YELLOW CENTERLINE
	LT & RT	-	400	-	33	41	-	
ITEM TOTALS		149860	400	149860	83	41	150060	

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MOBILIZATIONS EROSION CONTROL

STATION	628.1905 EROSION CONTROL EACH	628.1910 EMERGENCY EROSION CONTROL EACH
USH 12	2	2
ITEM TOTALS	2	2

TRAFFIC CONTROL

STATION	643.0100 (7090-05-65) EACH	643.0900 SIGNS DAYS	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.0715 WARNING LIGHTS TYPE C DAYS	REMARKS
USH 12	1						
		2328					ADVANCED WARNING
		3880					SIDEROADS
		970					MOVING OPERATIONS
		1050	3150				GUARDRAIL
		120	1360	20	40	280	TRUCK LANE

FIELD OFFICE TYPE B

STATION	642.5001 EACH
USH 12	1
ITEM TOTAL	1

LOCATING NO-PASSING ZONES

STATION	LOCATION	648.0100 MI
USH 12		14.17
ITEM TOTAL		14.17

CONSTRUCTION STAKING

STATION	LOCATION	650.5500 CURB GUTTER AND CURB & GUTTER LF	650.6000 PIPE CULVERTS EACH	650.8500 STRUCTURE LAYOUT (C-17-5038) LS	650.8000 RESURFACING REFERENCE LF	650.9910 SUPPLEMENTAL CONTROL (7090-05-65) LS	650.9920 SLOPE STAKES LF
USH 12					74828	1	74828
547+55.65 - 548+66.12		110					
132+98.50	LT & RT		1				
133+01.50	LT & RT		1				
137+71.92	LT & RT		1				
200+61.43	LT & RT		1				
287+85.00	LT & RT		1				
375+46.28	LT & RT		1				
441+68.10	LT & RT		1				
569+09.29	RT			1			
ITEM TOTALS		110	7	1	74828	1	74828

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PERMANENT SIGNING CONTINUED

SIGN GROUP CODE	SIGN CODE	MESSAGE	SIZE	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
2-1	I2-3	WILSON POPULATION 176	66" X 24"									REMAIN
2-2	W1-2R	RIGHT CURVE	30" X 30"		1				6.25	1	1	REPLACE
2-3	J1-1	JCT CTH W	24" X 39"			1		6.50			1	REPLACE
2-4	W10-2	CROSS ROAD TRACKS RIGHT SIDE	36" X 36"		1				9.00	1	1	REPLACE
3-1	J4-1	WEST USH 12	24" X 36"		1			6.00		1	1	REPLACE
3-2	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
	R5-1C	DO NOT ENTER	30" X 30"					6.25				
3-3	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
3-4	J13-1	CTH W ARROW	24" X 45"			1		7.50		1	1	REPLACE
3-5	W1-2L	LEFT CURVE	30" X 30"		1				6.25	1	1	REPLACE
3-6	W10-2	CROSS ROAD TRACKS RIGHT SIDE	36" X 36"			1			9.00	1	1	REPLACE
3-7	J1-1	JCT CTH W	24" X 39 "		1			6.50		1	1	REPLACE
3-8	J13-1	CTH W ARROW	24" X 45"			1		7.50		1	1	REPLACE
3-9	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
3-10	J4-1	WEST USH 12	24" X 36"			1		6.00		1	1	REPLACE
4-1	W4-2R	LANE REDUCTION TRANSITION SYMBOL - RIGHT	36" X 36"		1				9.00	1	1	REPLACE
4-2	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
4-3	J4-1	EAST USH 12	24" X 36"			1		6.00		1	1	REPLACE
	J4-1	ALTERNATE I 94	24" X 36"					6.00				
4-4	D2-1	MENOMONIE 12	84" X 15"		2			8.75		1	2	REPLACE
4-5	R3-72	ONCOMING TRAFFIC USES CENTER LANE	30" X 36"		1			7.50		1	1	REPLACE
4-6	W1-2R	RIGHT CURVE	30" X 30"		1				6.25	1	1	REPLACE
	W13-1	40 M.P.H.	18" X 18"						2.25			
4-7	I2-3	WILSON POPULATION 176										REMAINS
4-8	W9-1R	RIGHT LANE ENDS	30" X 30"		1				6.25	1	1	REPLACE
4-9	W1-8	CHEVRON LEFT	18" X 24"	1					3.00			INSTALL
4-10	W1-8	CHEVRON RIGHT	18" X 24"	1					3.00			INSTALL
4-11	W1-8	CHEVRON LEFT	18" X 24"	1					3.00			INSTALL
4-12	W1-8	CHEVRON RIGHT	18" X 24"	1					3.00			INSTALL
4-13	W1-8	CHEVRON LEFT	18" X 24"	1					3.00			INSTALL
4-14	W1-8	CHEVRON RIGHT	18" X 24"	1					3.00			INSTALL
4-15	W1-8	CHEVRON LEFT	18" X 24"	1					3.00			INSTALL
4-16	W1-8	CHEVRON RIGHT	18" X 24"	1					3.00			INSTALL
4-17	W4-2R	LANE REDUCTION TRANSITION SYMBOL - RIGHT	36" X 36"		1				9.00			INSTALL
			SUBTOTALS	8	16	6	0	95.22	87.25	19	21	

PERMANENT SIGNING CONTINUED

SIGN GROUP CODE	SIGN CODE	MESSAGE	SIZE	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
10-1	R2-1	SPEED LIMIT 55	24" X 30"		1			5.00		1	1	REPLACE
10-2	W3-5	SPEED LIMIT AHEAD	36" X 36"		1				9.00	1	1	REPLACE
10-3	R2-1	SPEED LIMIT 45	24" X 30"		1			5.00		1	1	REPLACE
10-4	R2-1	SPEED LIMIT 45	24" X 30"		1			5.00		1	1	REPLACE
10-5	I55-56	SPONSOR KNAPP LION'S CLUB	30" X 36"		1			7.50		1	1	REPLACE
10-6	J4-2	WEST USH 12 ALTERNATE I 94	48" X 36"		1			12.00		1	1	REPLACE
10-7	D2-2	WILSON 4 BALDWIN 12	66" X 24"		2			11.00				REPLACE
10-8	J13-2	USH 12 ARROW CTH Q ARROW	48" X 45"			1		15.00		1	1	REPLACE
10-9	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
10-10	J13-2	USH 12 ARROW CTH Q ARROW	48" X 45"			1		15.00		1	1	REPLACE
10-11	J13-1	JCT CTH Q	24" X 35"			1		7.50		1	1	REPLACE
10-12	J1-1	JCT CTH Q	24" X 39"			1		6.50		1	1	REPLACE
10-13	W10-3	SIDE ROAD TRACKS LEFT SIDE	36" X 36"		1				9.00	1	1	REPLACE
10-14	J13-1	CTH Q ARROW	24" X 45"			1		7.50		1	1	REPLACE
11-1	R2-1	SPEED LIMIT 45	24" X 30"		1			5.00		1	1	REPLACE
11-2	W10-3	SIDE ROAD TRACKS RIGHT SIDE	36" X 36"		1				9.00	1	1	REPLACE
11-3	J13-1	CTH Q ARROW	24" X 45"			1		7.50		1	1	REPLACE
11-4	J1-1	JCT CTH Q	24" X 39"			1		6.50		1	1	REPLACE
11-5	I2-3	KNAPP POPULATION 410										REMAIN
11-6	J13-1	CTH Q ARROW	24" X 45"			1		7.50		1	1	REPLACE
11-7	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
11-8	J4-2	CTH Q ARROW USH 12 ARROW	48" X 36"		1			12.00		1	1	REPLACE
11-9	R2-1	SPEED LIMIT 45	24" X 30"		1			5.00		1	1	REPLACE
11-10	J4-2	EAST USH 12 ALTERNATE I 94	48" X 36"		1			12.00		1	1	REPLACE
11-11	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
11-12	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
11-13	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
11-14	R2-1	SPEED LIMIT 45	24" X 30"		1			5.00		1	1	REPLACE
11-15	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
11-16	R2-1	SPEED LIMIT 45	24" X 30"		1			5.00		1	1	REPLACE
11-17	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
11-18	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
11-19	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
11-20	R2-1	SPEED LIMIT 45	24" X 30"		1			5.00		1	1	REPLACE
11-21	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
12-1	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
12-2	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
12-3	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
12-4	R2-1	SPEED LIMIT 45	24" X 30"		1			5.00		1	1	REPLACE
12-5	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
12-6	R2-1	SPEED LIMIT 45	24" X 30"		1			5.00		1	1	REPLACE
12-7	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
12-8	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
12-9	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
12-10	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
			SUBTOTALS	0	37	8	0	255.20	45.00	43	43	

3

PERMANENT SIGNING CONTINUED

SIGN GROUP CODE	SIGN CODE	MESSAGE	SIZE	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
5-1	R4-3	SLOWER TRAFFIC KEEP RIGHT	24" X 30"		1			5.00		1	1	REPLACE
5-2	W1-2L	LEFT CURVE	30" X 30"		1				6.25	1	1	REPLACE
	W13-1	40 M.P.H.	18" X 18"						2.25			
5-3	W1-4R	RIGHT REVERSE CURVE	30" X 30"		1				6.25	1	1	REPLACE
	W13-1	45 M.P.H.	18" X 18"						2.25			
5-4	R4-3	SLOWER TRAFFIC KEEP RIGHT	24" X 30"		1			5.00				INSTALL
5-5	W54-57	TRUCK ENTRANCE	30" X 30"		1				6.25	1	1	REPLACE
5-6	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
5-7	W1-4R	RIGHT REVERSE CURVE	30" X 30"		1				6.25	1	1	REPLACE
	W13-1	45 M.P.H.	18" X 18"						2.25			
6-1	W54-57	TRUCK ENTRANCE	30" X 30"		1				6.25	1	1	REPLACE
6-2	R4-51	PASSING LANE AHEAD 1/2 MILE	36" X 48"			1		12.00				INSTALL
6-3	W1-4R	RIGHT REVERSE CURVE								1	1	REMOVE
	W13-1	50 M.P.H.										
6-4	I2-2	ST CROIX CO	66" X 15"		2			6.88		1	2	REPLACE
7-1	I2-2	DUNN CO	54" X 15"		2			5.63		1	2	REPLACE
7-2	I55-56	SPONSOR KNAPP LION'S CLUB	30" X 36"		1			7.50		1	1	REPLACE
	W14-3	NO PASSING ZONE	48" X 36"						6.00			REPLACE
7-3	R4-51A	PASSING LANE AHEAD 1 MILE	36" X 48"			1		12.00				INSTALL
7-4	W5-52L	CLEARANCE STRIPER DOWN RIGHT	12" X 36"	1					3.00	1	1	REPLACE
7-5	W5-52R	CLEARANCE STRIPER DOWN LEFT	12" X 36"	1					3.00	1	1	REPLACE
7-6	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
7-7	W5-52R	CLEARANCE STRIPER DOWN LEFT	12" X 36"	1					3.00	1	1	REPLACE
7-8	W5-52L	CLEARANCE STRIPER DOWN RIGHT	12" X 36"	1					3.00	1	1	REPLACE
8-1	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
8-2	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
9-1	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
9-2	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
9-3	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
9-4	W5-52L	CLEARANCE STRIPER DOWN RIGHT	12" X 36"	1					3.00	1	1	REPLACE
9-5	W5-52R	CLEARANCE STRIPER DOWN LEFT	12" X 36"	1					3.00	1	1	REPLACE
9-6	W5-52R	CLEARANCE STRIPER DOWN LEFT	12" X 36"	1					3.00	1	1	REPLACE
9-7	W5-52L	CLEARANCE STRIPER DOWN RIGHT	12" X 36"	1					3.00	1	1	REPLACE
			SUBTOTALS	8	19	2	0	74.73	86.00	25	27	

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PERMANENT SIGNING

SIGN GROUP CODE	SIGN CODE	MESSAGE	SIZE	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1-1	J3-4	SOUTH STH 128 ARROW TO I 94 ARROW WEST USH 12 ARROW NORTH STH 128 ARROW	96" X 57"				2	38.00		1	2	REPLACE
1-2	D1-3	ARROW WOODVILLE ARROW SPRING VALLEY GLENWOOD CITY ARROW	96" X 42"			2		28.00		1	2	REPLACE
1-3	J4-2	WEST USH 12 ALTERNATE USH 12								1	2	REMOVE
	D2-2	WILSON 1 MENOMONIE 15										
1-4	D2-2	WILSON 1 MENOMONIE 15	84" X 24"		2			14.00				INSTALL
1-5	J4-2	EAST USH 12 ALTERNATE USH 12	48" X 36"		1			12.00				INSTALL
1-6	J3-4	SOUTH STH 128 ARROW TO I 94 ARROW WEST USH 12 ARROW NORTH STH 128 ARROW	96" X 57"				2	38.00				INSTALL
1-7	J2-3	SOUTH STH 128 ARROW WEST USH 12 ARROW NORTH STH 128 ARROW								1	2	REMOVE
	J4-1	ALTERNATE I-94										
1-8	D7-68R	GLEN HILLS COUNTY PARK	72" X 36"				2	18.00		1	2	REPLACE
1-9	J1-1	JCT STH 128	24" X 39"			1		6.50		1	1	REPLACE
1-10	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
			SUBTOTALS	0	4	3	6	154.50	6.00	7	12	

PERMANENT SIGNING CONTINUED

SIGN GROUP CODE	SIGN CODE	MESSAGE	SIZE	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
13-1	R2-1	SPEED LIMIT 45	24" X 30"		1			5.00		1	1	REPLACE
13-2	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
13-3	R2-1	SPEED LIMIT 45	24" X 30"		1			5.00		1	1	REPLACE
13-4	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
13-5	R2-1	SPEED LIMIT 45	24" X 30"		1			5.00		1	1	REPLACE
13-6	J1-1	JCT CTH O	24" X 39"			1		6.50		1	1	REPLACE
13-7	J13-1	USH 12 ARROW	24" X 45"			1		7.50		1	1	REPLACE
13-8	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
13-9	J13-1	CTH O ARROW	24" X 45"			1		7.50		1	1	REPLACE
13-10	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
13-11	R2-1	SPEED LIMIT 45	24" X 30"		1			5.00		1	1	REPLACE
13-12	I2-3	KNAPP POPULATION 410										REMAIN
13-13	J1-1	JCT CTH O	24" X 39"			1		6.50		1	1	REPLACE
13-14	W3-5	SPEED LIMIT AHEAD 45	36" X 36"		1				9.00	1	1	REPLACE
13-15	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
13-16	J13-1	CTH O ARROW	24" X 45"			1		7.50		1	1	REPLACE
13-17	R2-1	SPEED LIMIT 55	24" X 30"		1			5.00		1	1	REPLACE
13-18	W1-2R W13-1	RIGHT CURVE 50 M.P.H.	30" X 30" 18" X 18"		1				6.25 2.25	1	1	REPLACE
13-19	D2-1	MENOMONIE 8	78" X 15"		2			8.13		1	2	REPLACE
13-20	J4-2	ALTERNATE I 94 EAST USH 12	48" X 36"		1			12.00		1	1	REPLACE
13-21	W10-2	CROSS ROAD TRACKS LEFT SIDE	36" X 36"		1				9.00	1	1	REPLACE
13-22	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
13-23	W1-6	ARROW	48" X 24"		1				8.00			INSTALL
14-1	W1-6	ARROW								1	1	REMOVE
14-2	W10-2	CROSS ROAD TRACKS RIGHT SIDE	36" X 36"		1				9.00	1	1	REPLACE
14-3	W1-2L W13-1	LEFT CURVE 50 M.P.H.	30" X 30" 18" X 18"		1				6.25 2.25	1	1	REPLACE
14-4	W1-6	ARROW	48" X 24"		1				8.00			INSTALL
14-5	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
15-1	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
16-1	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
16-2	W10-2	CROSS ROAD TRACKS LEFT SIDE	36" X 36"		1				9.00	1	1	REPLACE
16-3	W5-52L	CLEARANCE STRIPER DOWN RIGHT	12" X 36"	1					3.00	1	1	REPLACE
16-4	W5-52R	CLEARANCE STRIPER DOWN LEFT	12" X 36"	1					3.00	1	1	REPLACE
16-5	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
16-6	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
16-7	W10-2	CROSS ROAD TRACKS RIGHT SIDE	36" X 36"		1				9.00	1	1	REPLACE
16-8	W5-52R	CLEARANCE STRIPER DOWN LEFT	12" X 36"	1					3.00	1	1	REPLACE
16-9	W5-52L	CLEARANCE STRIPER DOWN RIGHT	12" X 36"	1					3.00	1	1	REPLACE
16-10	W1-2L	LEFT CURVE	30" X 30"		1				6.25	1	1	REPLACE
16-11	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
17-1	W1-2R	RIGHT CURVE	30" X 30"		1				6.25	1	1	REPLACE
17-2	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
17-3	W10-2	CROSS ROAD TRACKS LEFT SIDE	36" X 36"		1				9.00	1	1	REPLACE
17-4	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
			SUBTOTALS	4	34	5	0	132.43	135.50	41	42	

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PERMANENT SIGNING CONTINUED

SIGN GROUP CODE	SIGN CODE	MESSAGE	SIZE	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
18-1	W10-2	CROSS ROAD TRACKS RIGHT SIDE	36" X 36"		1				9.00	1	1	REPLACE
18-2	J1-1	JCT CTH K	24" X 39"			1		6.50		1	1	REPLACE
18-3	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
18-4	W10-2	CROSS ROAD TRACKS LEFT SIDE	36" X 36"		1				9.00	1	1	REPLACE
18-5	J4-2	ALTERNATE I 94 WEST USH 12	48" X 36"		1			12.00		1	1	REPLACE
18-6	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
18-7	J13-2	CTH K ARROW USH 12 ARROW	48" X 45"			1		7.50		1	1	REPLACE
18-8	J13-1	CTH K ARROW	24" X 45"			1		7.50		1	1	REPLACE
18-9	W10-2	CROSS ROAD TRACKS RIGHT SIDE	36" X 36"		1				9.00	1	1	REPLACE
18-10	W14-3	NO PASSING ZONE	48" X 36"			1			6.00	1	1	REPLACE
	J1-1	JCT CTH K	24" X 39"					6.50				REPLACE
18-11	J13-1	CTH K ARROW	24" X 45"			1		7.50		1	1	REPLACE
18-12	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
18-13	J13-2	CTH K ARROW USH 12 ARROW	48" X 45"			1		7.50		1	1	REPLACE
18-14	J4-1	EAST USH 12	24" X 36"		1			6.00		1 1	1	REPLACE
18-15	I55-56	SPONSOR (UNKNOWN)	30" X 36"		1			7.50		1	1	REPLACE
19-1	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
20-1	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
20-2	W10-2	CROSS ROAD TRACKS LEFT SIDE	36" X 36"		1				9.00	1	1	REPLACE
20-3	W10-2	CROSS ROAD TRACKS RIGHT SIDE	36" X 36"		1				9.00	1	1	REPLACE
20-4	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
20-5	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
20-6	W1-2L	LEFT CURVE	30" X 30"		1				6.25	1	1	REPLACE
21-1	W5-52R	CLEARANCE STRIPER DOWN LEFT	12" X 36"	1					3.00	1	1	REPLACE
21-2	W5-52L	CLEARANCE STRIPER DOWN RIGHT	12" X 36"	1					3.00	1	1	REPLACE
21-3	W1-2R	RIGHT CURVE	30" X 30"		1				6.25	1	1	REPLACE
21-4	W5-52L	CLEARANCE STRIPER DOWN RIGHT	12" X 36"	1					3.00	1	1	REPLACE
21-5	W5-52R	CLEARANCE STRIPER DOWN LEFT	12" X 36"	1					3.00	1	1	REPLACE
21-6	J1-1	JCT STH 79	24" X 39"			1		6.50		1	1	REPLACE
	W14-3	NO PASSING ZONE	48" X 36"						6.00			REPLACE
21-7	J3-3	ALTERNATE I 94 NORTH STH 79 EAST USH 12	72" X 57"			2		25.00		1	1	REPLACE
			SUBTOTALS	4	17	9	0	125.90	93.50	30	29	

PERMANENT SIGNING CONTINUED

SIGN GROUP CODE	SIGN CODE	MESSAGE	SIZE	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
22-1	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
22-2	J4-2	WEST USH 12 ALTERNATE I 94	48" X 36"		1			12.00		1	1	REPLACE
22-3	D2-2	KNAPP 6 BALDWIN 20	72" X 24"		2			12.00		1	2	REPLACE
22-4	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
	R5-1C	DO NOT ENTER	30" X 30"					6.25				
22-5	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
22-6	J3-2	NORTH STH 79 ARROW WEST USH 12 ARROW	48" X 57"			1		19.00		1	1	REPLACE
22-7	D1-2	AHEAD KNAPP RIGHT BOYCEVILLE	72" X 30"		2			15.00		1	1	REPLACE
22-8	W10-2	CROSS ROAD TRACKS LEFT SIDE	36" X 36"		1				9.00	1	1	REPLACE
22-9	D1-2	AHEAD MENOMONIE LEFT BOYCEVILLE	78" X 30"		2			16.25		1	2	REPLACE
22-10	J3-2	NORTH STH 79 ARROW EAST USH 12 ARROW	48" X 57"			1		19.00		1	1	REPLACE
22-11	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
22-12	D2-1	MENOMONIE 5	78" X 15"		2			8.13		1	1	REPLACE
22-13	J4-2	ALTERNATE I 94 EAST USH 12	48" X 36"		1			12.00 6.00		1	1	REPLACE
22-14	W10-2	CROSS ROAD TRACKS RIGHT SIDE	36" X 36"		1				9.00	1	1	REPLACE
22-15	J3-3	ALTERNATE I 94 NORTH STH 79 ARROW WEST USH 12 ARROW	72" X 57"		1	2		25.00		1	1	REPLACE
22-16	J1-1	JCT STH 79	24" X 39"			1		6.50		1	1	REPLACE
22-17	J1-1	JCT CTH BB	24" X 39"			1		6.50		1	1	REPLACE
22-18	W10-1	RAILROAD CROSSING	36" X 36"		1				7.07	1	1	REPLACE
22-19	W10-1	RAILROAD CROSSING	36" X 36"		1				7.07	1	1	REPLACE
23-1	J4-1	WEST USH 12	24" X 36"		1			6.00		1	1	REPLACE
23-2	J4-1	USH 12 ARROW	24" X 36"		1			6.00		1	1	REPLACE
23-3	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
23-4	J13-1	CTH BB ARROW	24" X 45"			1		7.50		1	1	REPLACE
23-5	W10-2	CROSS ROAD TRACKS LEFT SIDE	36" X 36"		1				9.00	1	1	REPLACE
23-6	J13-1	CTH BB ARROW	24" X 45"			1		7.50		1	1	REPLACE
	W14-3	NO PASSING ZONE	48" X 36"						6.00			REPLACE
23-7	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
23-8	J4-1	EAST USH 12	24" X 36"		1			6.00		1	1	REPLACE
23-9	I55-56	SPONSOR MENOMONIE SENIOR HIGH FHA CHAPTER	30" X 36"		1			7.50		1	1	REPLACE
23-10	W10-2	CROSS ROAD TRACKS LEFT SIDE	36" X 36"		1				9.00	1	1	REPLACE
23-11	J1-1	JCT CTH BB	24" X 39"			1		6.50		1	1	REPLACE
23-12	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
			SUBTOTALS	0	28	9	0	236.53	68.14	31	33	

PERMANENT SIGNING CONTINUED

SIGN GROUP CODE	SIGN CODE	MESSAGE	SIZE	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
24-1	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
24-2	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
24-3	W1-8	CHEVRON RIGHT	18" X 24"	1					3.00			INSTALL
24-4	W1-8	CHEVRON RIGHT	18" X 24"	1					3.00			INSTALL
24-5	W1-8	CHEVRON LEFT	18" X 24"	1					3.00			INSTALL
24-6	W1-8	CHEVRON LEFT								1	1	REMOVE
24-7	W1-8	CHEVRON LEFT								1	1	REMOVE
24-8	W1-8	CHEVRON RIGHT	18" X 24"	1					3.00			INSTALL
24-9	W1-8	CHEVRON LEFT	18" X 24"	1					3.00			INSTALL
24-10	W1-8	CHEVRON LEFT								1	1	REMOVE
24-11	W1-8	CHEVRON RIGHT	18" X 24"	1					3.00			INSTALL
24-12	W1-8	CHEVRON LEFT	18" X 24"	1					3.00			INSTALL
24-13	W1-2R	RIGHT CURVE	30" X 30"		1				6.25	1	1	REPLACE
	W13-1	40 M.P.H.	18" X 18"						2.25			
25-1	W1-8	CHEVRON LEFT	18" X 24"	1					3.00			INSTALL
25-2	W1-8	CHEVRON LEFT								1	1	REMOVE
25-3	W1-8	CHEVRON RIGHT	18" X 24"	1					3.00			INSTALL
25-4	W1-8	CHEVRON LEFT	18" X 24"	1					3.00			INSTALL
25-5	W1-8	CHEVRON LEFT								1	1	REMOVE
25-6	W1-8	CHEVRON RIGHT	18" X 24"	1					3.00			INSTALL
25-7	W1-8	CHEVRON LEFT	18" X 24"	1					3.00			INSTALL
25-8	W1-8	CHEVRON RIGHT	18" X 24"	1					3.00			INSTALL
25-9	W1-8	CHEVRON LEFT	18" X 24"							1	1	REMOVE
25-10	W1-16	ARROW	48" X 24"		1				8.00			INSTALL
25-11	W1-8	CHEVRON LEFT	18" X 24"	1					3.00			INSTALL
25-12	R1-1	STOP	30" X 30"		1			5.18		1	1	REPLACE
25-13	W1-8	CHEVRON LEFT	18" X 24"	1					3.00	1	1	REPLACE
25-14	W1-2L	LEFT CURVE	30" X 30"		1				6.25	1	1	REPLACE
	W13-1	40 M.P.H.	18" X 18"						2.25			
25-15	W1-2L	LEFT CURVE	30" X 30"		1				6.25	1	1	REPLACE
	W13-1	45 M.P.H.	18" X 18"						2.25			
25-16	S3-1	SCHOOL BUS STOP AHEAD	36" X 36"		1				9.00	1	1	REPLACE
26-1	W1-2R	RIGHT CURVE	30" X 30"		1				6.25	1	1	REPLACE
	W13-1	45 M.P.H.	18" X 18"		1				2.25			
26-2	S3-1	SCHOOL BUS STOP AHEAD	36" X 36"		1				9.00	1	1	REPLACE
26-3	W3-5	SPEED LIMIT AHEAD 45	36" X 36"		1				9.00	1	1	REPLACE
26-4	W12-2	LOW CLEARANCE 14'-4"	36" X 36"		1			9.00		1	1	REPLACE
26-5	R2-1	SPEED LIMIT 55	24" X 30"		1			5.00		1	1	REPLACE
26-6	W14-3	NO PASSING ZONE	48" X 36"		1				6.00	1	1	REPLACE
26-7	R2-1	SPEED LIMIT 45	24" X 30"		1			5.00		1	1	REPLACE
26-8	R2-1	SPEED LIMIT 35	24" X 30"		1			5.00		1	1	REPLACE
		SUBTOTALS		15	17	0	0	29.18	132.00	22	22	
		PROJECT TOTALS		39	172	42	6	1103.68	653.39	218	229	

UTILITY LINE OPENING

STATION	LOCATION	SPV.0060.01 EACH	REMARKS
USH 12			
75+00	LT & RT	1	DUE TO BEAM GUARD INSTALLATION
577+25	LT & RT	1	DUE TO BEAM GUARD INSTALLATION
ITEM TOTAL		2	

REHEATING HMA PAVEMENT LONGITUDINAL JOINTS SPECIAL

STATION	LOCATION	SPV.0170.01 STA
USH 12		
10+00 - 26+99.77 BK	LT & RT	17
495+65 AH - 645+82.09 BK	LT & RT	150
0+00 AH- 113+37.88	LT & RT	113
113+37.88 - 186+65.88	LT & RT	73
186+65.88 - 446+73.38	LT & RT	260
446+73.38 - 580+75	LT & RT	134
ITEM TOTAL		747

SAWING

STATION	LOCATION	690.0150 ASPHALT LF	REMARKS
USH 12			
10+00	LT & RT	44	ST. CROIX COUNTY
580+00	LT & RT	35	DUNN COUNTY
SIDE ROADS			
310TH ST	LT & RT	44	ST. CROIX COUNTY
315TH ST	RT	23	ST. CROIX COUNTY
WILSON CREEK RD	LT	66	ST. CROIX COUNTY
751ST AVE	LT	16	DUNN COUNTY
80TH ST	RT	24	DUNN COUNTY
106TH ST	LT	20	DUNN COUNTY
CTH O	LT	24	DUNN COUNTY
2ND ST	RT	30	DUNN COUNTY
A ST	RT	22	DUNN COUNTY
QUEEN ST	RT	16	DUNN COUNTY
KING ST	LT & RT	44	DUNN COUNTY
OAK ST	RT	36	DUNN COUNTY
KIMBALL ST	RT	28	DUNN COUNTY
PARK ST	RT	28	DUNN COUNTY
CHURCH ST	RT	29	DUNN COUNTY
3RD AVE	LT & RT	47	DUNN COUNTY
2ND AVE	RT	17	DUNN COUNTY
1ST AVE	RT	23	DUNN COUNTY
1ST ST	LT & RT	49	DUNN COUNTY
CTH O	LT	28	DUNN COUNTY
190TH ST	LT & RT	40	DUNN COUNTY
731ST AVE	RT	20	DUNN COUNTY
250TH ST	LT & RT	36	DUNN COUNTY
271ST ST	LT	24	DUNN COUNTY
711TH AVE	RT	16	DUNN COUNTY
CTH K	LT & RT	48	DUNN COUNTY
FORD RD	LT	18	DUNN COUNTY
690TH AVE	RT	22	DUNN COUNTY
STH 79	LT & RT	57	DUNN COUNTY
390TH ST	LT & RT	48	DUNN COUNTY
429TH ST	LT	20	DUNN COUNTY
DRIVEWAYS			
17+21	RT	40	ST. CROIX COUNTY
532+50	RT	61	ST. CROIX COUNTY
5+36	RT	16	DUNN COUNTY
78+82	RT	22	DUNN COUNTY
128+47	LT	20	DUNN COUNTY
140+25	LT	66	DUNN COUNTY
168+20	LT	12	DUNN COUNTY
174+98	RT	16	DUNN COUNTY
176+71	RT	12	DUNN COUNTY
177+75	LT	16	DUNN COUNTY
178+74	LT	20	DUNN COUNTY
181+91	RT	12	DUNN COUNTY
183+30	RT	10	DUNN COUNTY
219+18	RT	15	DUNN COUNTY
235+30	RT	28	DUNN COUNTY
237+57	RT	20	DUNN COUNTY
242+24	RT	14	DUNN COUNTY
274+42	RT	14	DUNN COUNTY
426+65	RT	16	DUNN COUNTY
436+46	RT	30	DUNN COUNTY
439+89	RT	31	DUNN COUNTY
472+23	RT	15	DUNN COUNTY
546+71	RT	24	DUNN COUNTY
548+22	RT	24	DUNN COUNTY
551+05	RT	30	DUNN COUNTY
553+59	RT	18	DUNN COUNTY
553+83	LT	14	DUNN COUNTY
557+74	LT	20	DUNN COUNTY
569+54	LT	66	DUNN COUNTY
ITEM TOTAL		1744	

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W AC. REQUIRED			TLE AC.
			NEW	EXISTING	TOTAL	
1	JOURDAN C. & SUZANNE R. SCHAFFART	FEE	.16	-	.16	-

RECOVERED MONUMENTS			
POINT	DESCRIPTION	Y	X
315	1" IRON PIPE	332897.231	664691.328
316	1" IRON PIPE	332935.799	664999.388
317	1" IRON PIPE	332942.821	665092.988

UTILITY SCHEDULE & INTEREST REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
130	SPRINT COMMUNICATIONS COMPANY	RELEASE OF RIGHTS

UTILITY INTEREST TABLE			
UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
130	1	EASEMENT DEED BY COURT ORDER	DOC. # 983208

TRANSPORTATION PROJECT PLAT NO: 7090-05-25 - 4.01

THAT PART OF THE NE 1/4 OF THE SE 1/4 OF SECTION 35, T29N, R15W, TOWN OF SPRINGFIELD, ST. CROIX COUNTY, WISCONSIN

RELOCATION ORDER USH 12 BALDWIN - MENOMONIE (STH 128 TO IH 94), ST. CROIX COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 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.

991521
BETH PABST
REGISTER OF DEEDS
ST. CROIX CO., WI
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RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7090-05-25-4.01
AMENDMENT NO:
SHEET 1 OF 2

VILLAGE

T 29 N, R 15 W, SEC 26, 35 — NOT RECOVERED

QUARTER LINE

NW-SE
SEC 35-29-15W

OF

SIXTEENTH LINE

PT 1084+34.80
PC 1085+22.33
PT 1089+18.95
PC 1089+51.45
PT 1098+24.02
PI 1105+34.84
PC 1102+96.14
PT 1107+53.45

1085+00
1090+00
1095+00
1100+00
1105+00
1110+00

98'
160'

EXISTING RW

R = N 68°45'31" E

R = S 70°57'16" E

BALDWIN TELECOM

WEST WISCONSIN TELECOM COOP

XCEL ENERGY

PISTA 1082+86.63
PIY =332958.514
PIX =664058.453
DELTA =10°19'04" (LT)
R =1650.00
D =3°28'21"
T =148.97
L =297.13

PISTA 1087+20.98
PIY =332934.730
PIX =664492.950
DELTA =8°06'58" (LT)
R =2800.00
D =2°02'47"
T =198.64
L =396.62

PISTA 1093+90.69
PIY =332992.957
PIX =665160.792
DELTA =16°15'31" (LT)
R =3075.00
D =1°51'48"
T =439.24
L =872.57

PISTA 1105+34.84
PIY =333409.619
PIX =666232.715
DELTA =40°17'13" (RT)
R =650.00
D =8°48'53"
T =238.43
L =457.04

SW-SE
SEC 35-29-15W

WILSON

TOWN

SE-SE
SEC 35-29-15W

SPRINGFIELD

VILLAGE OF WILSON
TOWN OF SPRINGFIELD

LOT 1
CSM
V.12, P.3500
DOC.585271

FOUND 1" IP
Y=334265.997
X=666697.238

FOUND AL CAP
2" IP
Y=331640.439
X=666715.002

T 29 N, R 15 W, SEC 35, 36 — 5011
T 29 N, R 15 W, SEC 35, 36 — T 28 N, R 15 W, SEC 2, 1 — 5050

SECTION LINE = S00°23'13"E 2,625.57'

STA. 1110+13.75

STATION OUT TABLE			
500	1109+71.41	120.00'	LT
501	1110+13.75	0.00'	RT
502	1110+48.33	98.04'	RT
503	1107+37.89	95.81'	RT
506	1107+40.83	0.00'	RT
511	1107+42.36	64.14'	LT
512	1108+00.00	63.64'	LT
513	1109+00.00	120.00'	LT

FEE TRAVERSE TABLE		
5011-500	S00°23'16"E	891.89'
500-501	S00°23'16"E	127.25'
501-502	S00°23'16"E	103.96'
502-503	N70°34'09"W	308.15'
503-506	N19°25'51"E	95.84'
506-511	N19°25'51"E	64.16'
511-512	S70°34'09"E	58.74'
512-513	N79°38'21"E	114.79'
513-500	S70°57'16"E	71.41'

GN

0 100 200
SCALE, FEET

LOCATION SKETCH
NOT TO SCALE
SHEET LOCATION
PROJECT LOCATION
NOT RECOVERED

BASIS OF R/W		
ROAD	DOCUMENT	YEAR
USH 12	DIVISION JOB 6871	1926
	PROJ. T06-4(45)	1957
	CSM V. 12 P. 3500 DOC. 585271	1998

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I, JASON L. CANCE, 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 WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 7090-05-25-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE 1-8-2014
(PRINTED NAME) JASON L. CANCE
(REGISTRATION NUMBER) 2688

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION.

(SIGNATURE) _____ DATE _____
(PRINTED NAME) MICHAEL PILLER

FILE NAME : P:\UZ\W\Witnw\118872\CAD\RDUSH1201SC.dgn PLOT TIME : 11:53:47 AM PLOT DATE : 2/3/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 72

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

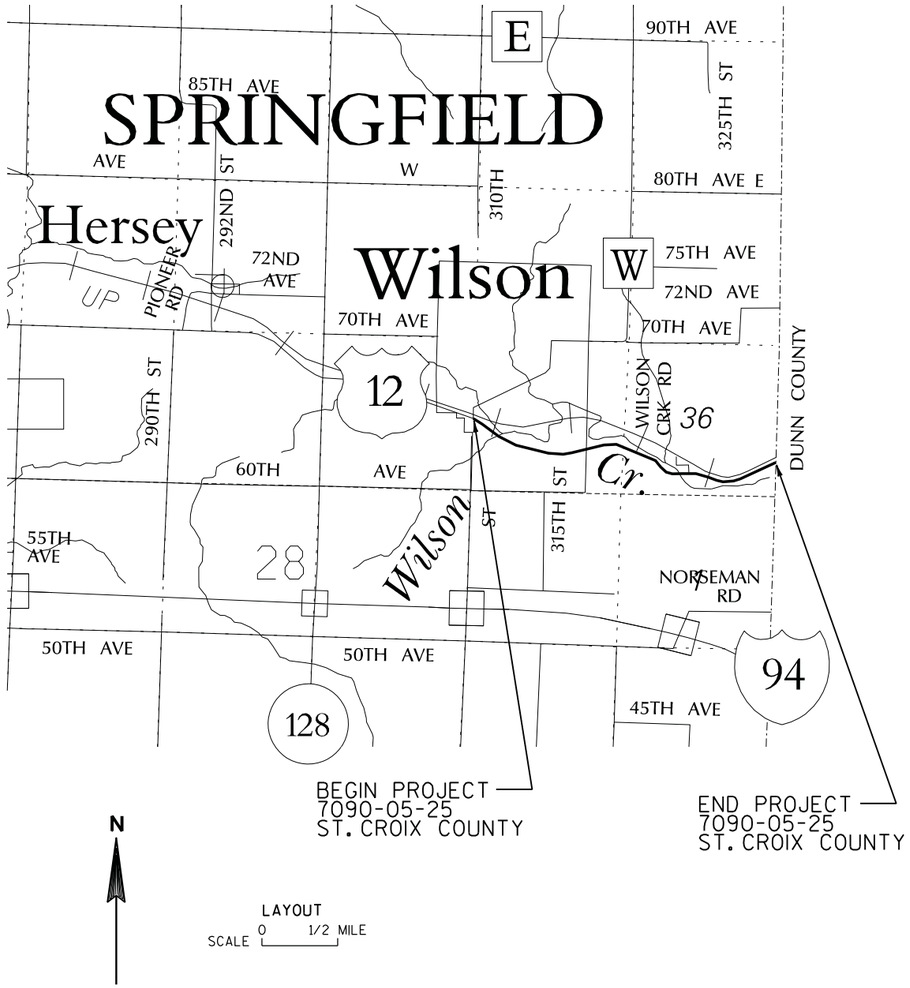
TRANSPORTATION PROJECT PLAT TITLE SHEET

7090-05-25

STH 128 TO I 94

USH 12

ST. CROIX COUNTY



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, ST. CROIX COUNTY, NAD83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A **TEMPORARY LIMITED EASEMENT** (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLES EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A **PERMANENT LIMITED EASEMENT** (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

A **HIGHWAY EASEMENT** (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

FOR CURRENT ACCESS / DRIVEWAY INFORMATION, CONTACT THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION OFFICE.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	LP (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	•(SET)	PROPERTY LINE	
R/W TRAVERSE POINT	○	LOT & TIE LINES	
R/W STANDARD	△ •(SET)	SLOPE INTERCEPTS	
SIGN	ISIGN	CORPORATE LIMITS	
SECTION CORNER MONUMENT		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
SECTION CORNER SYMBOL		NO ACCESS (BY ACQUISITION)	
FEE (HATCH VARIES)		NO ACCESS (BY STATUTORY AUTHORITY)	
TEMPORARY LIMITED EASEMENT		SECTION LINE	
PERMANENT LIMITED EASEMENT		QUARTER LINE	
R/W BOUNDARY POINT	RWB20	SIXTEENTH LINE	
PARCEL NUMBER	102	EXISTING CENTERLINE	
UTILITY PARCEL NUMBER	92	PROPOSED REFERENCE LINE	
SIGN NUMBER (OFF PREMISE)	21	PARALLEL OFFSET	
BUILDING			

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

SEH
401 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7090-05-25 - 4.01
SHEET 2 OF 2
AMENDMENT NO:

TRANSPORTATION PROJECT PLAT NO: 7090-05-25 - 4.02 AMENDMENT NO. 2

AMENDS PARCEL 2 AND ADDS PARCEL 5 OF TRANSPORTATION PROJECT PLAT 7090-05-25-4.02 RECORDED AS DOCUMENT NO. 991939

THAT PART OF THE NW 1/4 OF THE SW 1/4 AND THAT PART OF THE SW 1/4 OF THE SW 1/4 AND THAT PART OF THE SE 1/4 OF THE SW 1/4, SECTION 36, T29N, R15W, TOWN OF SPRINGFIELD, ST. CROIX COUNTY, WISCONSIN

RELOCATION ORDER USH 12 BALDWIN - MENOMONIE (STH 128 TO IH 94), ST. CROIX COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 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.

998967
BETH PABST
REGISTER OF DEEDS
ST. CROIX CO., WI
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EXEMPT #
PAGES: 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7090-05-25-4.02
AMENDMENT NO: 2

UTILITY SCHEDULE & INTEREST REQUIRED

UTILITY NUMBER	UTILITY OWNER (S)	INTEREST REQUIRED
150	WEST WISCONSIN TELECOM	RELEASE OF RIGHTS
160	XCEL ENERGY	RELEASE OF RIGHTS
180	BALDWIN TELECOM	RELEASE OF RIGHTS

STATION OUT TABLE

500	1109+71.41	120.00'	LT
600	1111+00.00	120.00'	LT
601	1112+00.00	85.00'	LT
602	1113+50.00	85.00'	LT
603	1115+00.00	60.98'	LT
604	1116+95.21	60.57'	LT
605	1116+50.71	183.66'	LT
606	1120+54.17	76.75'	LT
607	1122+35.12	68.90'	LT
608	1123+18.25	55.00'	LT
609	1126+00.00	45.00'	LT
610	1128+00.00	31.32'	LT
611	1129+50.00	31.75'	LT
612	1129+50.00	55.00'	LT
613	1131+71.15	70.00'	LT
614	1133+50.00	70.00'	LT
615	1133+75.00	40.00'	LT
616	1136+50.08	40.00'	LT
617	1137+00.00	34.70'	LT
618	1137+00.00	0.00'	
619	1137+00.00	31.30'	RT
620	1136+31.30	30.93'	RT
621	1135+30.00	31.48'	RT
622	1134+15.00	60.00'	RT
623	1131+71.15	70.00'	RT
624	1128+00.00	70.00'	RT
625	1127+75.00	34.74'	RT
626	1125+55.50	35.16'	RT
627	1126+01.09	92.09'	RT
628	1124+73.33	91.88'	RT
629	1123+26.72	87.67'	RT
630	1119+21.31	79.91'	RT
631	1110+41.26	77.99'	RT
501	1110+13.75	0.00'	

UTILITY INTEREST TABLE

UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
150	2	EASEMENT	V. 723 P. 146 DOC. #405919
	2	EASEMENT	V. 605 P. 399 DOC. #361629
160	2	EASEMENT	V. 336 P. 420 DOC. #250034
180	2	NO EASEMENT	---

CURVE DATA

CURVE 610 - 611
LENGTH = 143.82'
RADIUS = 731.00'
CHORD BEARING = S71°49'45"E
CHORD DISTANCE = 143.59'

CURVE 619 - 620
LENGTH = 67.57'
RADIUS = 1399.39'
CHORD BEARING = S87°13'53"W
CHORD DISTANCE = 67.57'

CURVE 623 - 624
LENGTH = 405.12'
RADIUS = 835.00'
CHORD BEARING = S79°56'19"W
CHORD DISTANCE = 401.15'

CURVE 625 - 626
LENGTH = 229.54'
RADIUS = 797.00'
CHORD BEARING = N56°03'03"W
CHORD DISTANCE = 228.75'

CURVE 627 - 628
LENGTH = 140.11'
RADIUS = 854.00'
CHORD BEARING = N46°31'21"W
CHORD DISTANCE = 139.95'

CURVE 629 - 630
LENGTH = 365.56'
RADIUS = 728.60'
CHORD BEARING = N56°11'45"W
CHORD DISTANCE = 361.73'

FEE TRAVERSE TABLE

5011-500	S00°23'16"E	891.89'
500-600	S70°51'41"E	129.14'
600-601	S51°24'00"E	105.95'
601-602	S70°41'24"E	150.00'
602-603	S61°35'36"E	151.91'
603-604	S70°34'09"E	195.21'
604-605	N00°33'55"W	130.89'
605-606	S55°01'40"E	430.12'
606-607	S53°38'02"E	197.15'
607-608	S37°37'52"E	90.60'
608-609	S42°42'02"E	275.53'
609-610	S54°27'21"E	189.97'
610-611	SEE CURVE DATA	
611-612	N12°43'34"E	23.25'
612-613	S89°45'03"E	202.92'
613-614	N86°09'45"E	178.85'
614-615	S43°38'36"E	39.05'
615-616	N86°09'45"E	275.08'
616-617	S86°53'35"E	51.55'
617-618	S01°45'27"E	34.70'
618-619	S01°45'27"E	31.30'
619-620	SEE CURVE DATA	
620-621	S85°50'53"W	101.30'
621-622	S72°14'12"W	118.48'
622-623	S83°48'51"W	244.05'
623-624	SEE CURVE DATA	
624-625	N12°15'13"W	44.23'
625-626	SEE CURVE DATA	
626-627	S00°22'46"E	75.34'
627-628	SEE CURVE DATA	
628-629	N41°49'21"W	146.67'
629-630	SEE CURVE DATA	
630-631	N70°34'09"W	879.69'
631-501	N00°23'16"W	82.70'
501-500	N00°23'16"W	127.25'

BASIS OF R/W

ROAD	DOCUMENT	YEAR
USH 12	DIVISION JOB 6871	1926
	PROJ. T06-4(45)	1957
	CSM V. 12 P. 3500 DOC. 585271	1998
WILSON CREEK RD	WIS. STATUTE 82.31(2)	

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W A.C. REQUIRED			TLE A.C.
			NEW	EXISTING	TOTAL	
2	MATHY CONSTRUCTION COMPANY	FEE	0.71	-	0.71	-
4	STEVEN W. & MELISSA L. GILGENBACH	FEE	0.05	-	0.05	-
5	DERECK M. ALF & ROBERT W. ALF	FEE	0.17	-	0.17	-

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN ST. CROIX COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 991521.

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I, JASON L. CANCE, 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 WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 7090-05-25-4.02 AMENDMENT NO. 2 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE 7-18-2014
(PRINTED NAME) JASON L. CANCE
(REGISTRATION NUMBER) 2688

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION.

(SIGNATURE) _____ DATE 7-21-2014
(PRINTED NAME) MICHAEL PILLER

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W AC. REQUIRED			TLE AC.
			NEW	EXISTING	TOTAL	
6	UNION PACIFIC RAILROAD	TLE	---	---	---	0.06
7	JAMES CUMMINGS	FEE	0.12	---	0.12	---
8	TIMOTHY H. MITTLESTADT & SUSAN A. MITTLESTADT	FEE	0.02	---	0.02	---

UTILITY SCHEDULE & INTEREST REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
100	VERIZON COMMUNICATIONS	RELEASE OF RIGHTS
110	CENTURYLINK INC.	RELEASE OF RIGHTS
130	SPRINT COMMUNICATIONS COMPANY	RELEASE OF RIGHTS

UTILITY INTEREST TABLE			
UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
100	6	EASEMENT	V. 640 P. 280
110	7	EASEMENT	V. 242 P. 192 / V. 938 P. 1
	8	EASEMENT	V. 242 P. 445 / V. 938 P. 1
130	6	EASEMENT	V. 370 P. 359

FEE / TLE TRAVERSE TABLE		
103-200	S00°08'13"E	1033.36'
200-201	N89°51'47"E	705.81'
201-202	N28°18'19"W	33.09'
202-203	N51°54'01"E	40.59'
203-204	N61°41'41"E	120.00'
204-205	N71°42'15"E	40.62'
205-206	N61°44'21"E	50.00'
206-207	N55°12'23"E	80.52'
207-208	N61°41'41"E	100.00'
208-209	N86°31'21"E	22.04'
209-210	S28°18'19"E	32.75'
210-211	S28°18'19"E	33.25'
211-212	S28°20'26"W	35.92'
212-213	S61°41'41"W	120.00'
213-214	S83°23'56"W	53.82'
214-215	S61°44'21"W	75.00'
215-216	S14°32'06"W	36.77'
216-217	S61°41'41"W	50.00'
217-218	S76°51'18"W	103.61'
218-201	N28°18'19"W	32.91'

TRANSPORTATION PROJECT PLAT NO: 7090-05-25 - 4.03 AMENDMENT NO. 1

AMENDS PARCEL 6 OF TRANSPORTATION PROJECT PLAT 7090-05-25-4.03 RECORDED AS DOCUMENT NO. 600531.

THAT PART LOT 1 OF CSM 2917 LOCATED IN AND PART OF THE NW 1/4 OF THE SW 1/4, AND THAT PART OF THE NE 1/4 OF THE SW 1/4, ALL IN SECTION 31 T29N R14W, TOWN OF STANTON, DUNN COUNTY, WISCONSIN.

RELOCATION ORDER USH 12 DUNN COUNTY

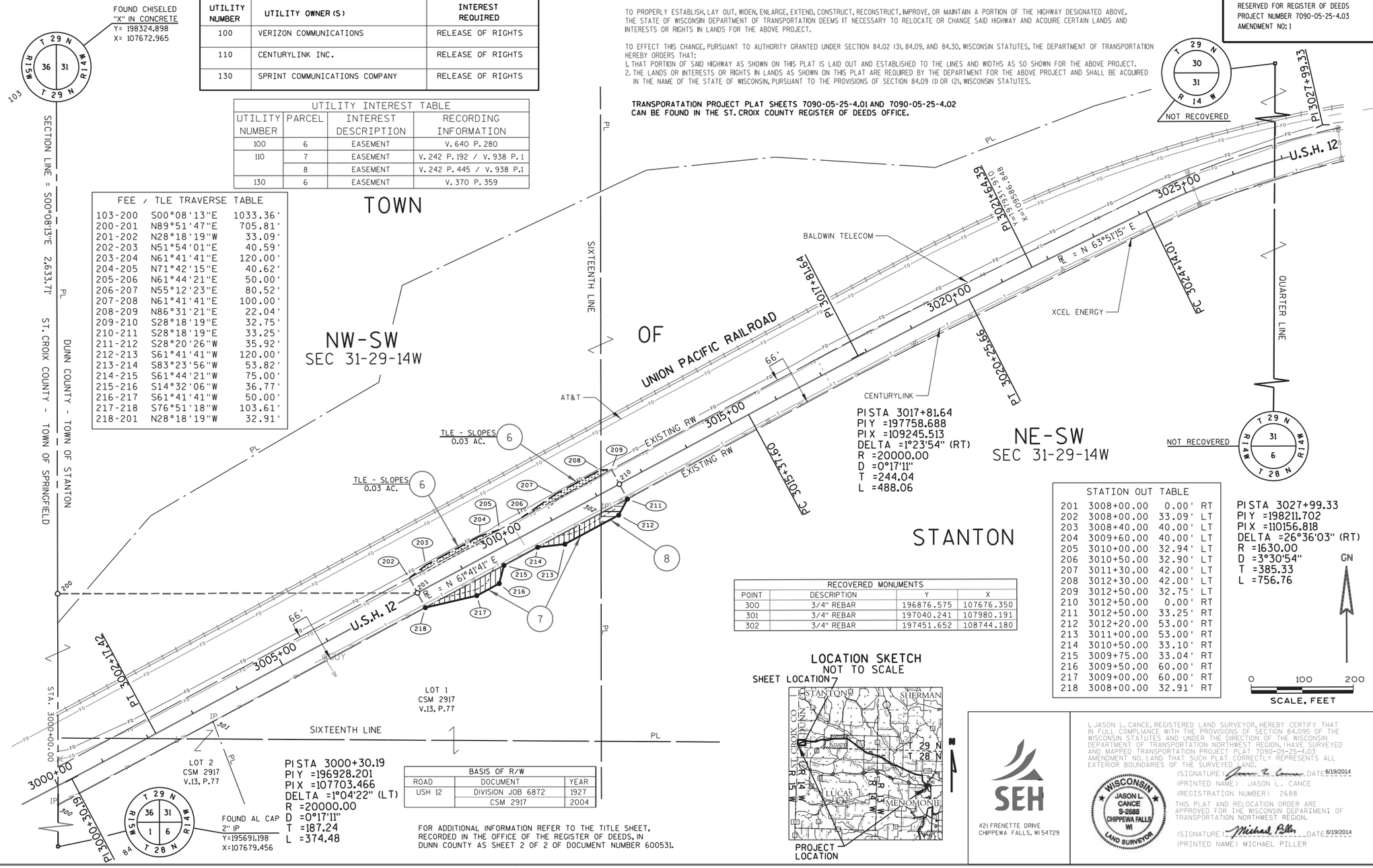
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 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.

TRANSPORTATION PROJECT PLAT SHEETS 7090-05-25-4.01 AND 7090-05-25-4.02 CAN BE FOUND IN THE ST. CROIX COUNTY REGISTER OF DEEDS OFFICE.

603041
DUNN COUNTY, WI
REGISTER OF DEEDS
HEATHER M. KUHN
RECORDED ON
06/26/2014 3:08 PM
REC FEE: 25.00
FEE EXEMPT #:
PAGES: 1
VOLUME 9
PLATS
PG 10
Heather M. Kuhn

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7090-05-25-4.03
AMENDMENT NO: 1



RECOVERED MONUMENTS			
POINT	DESCRIPTION	Y	X
300	3/4" REBAR	196876.575	107676.350
301	3/4" REBAR	197040.241	107980.191
302	3/4" REBAR	197451.652	108744.180

STATION OUT TABLE			
201	3008+00.00	0.00'	RT
202	3008+00.00	33.09'	LT
203	3008+40.00	40.00'	LT
204	3009+60.00	40.00'	LT
205	3010+00.00	32.94'	LT
206	3010+50.00	32.90'	LT
207	3011+30.00	42.00'	LT
208	3012+30.00	42.00'	LT
209	3012+50.00	32.75'	LT
210	3012+50.00	0.00'	RT
211	3012+50.00	33.25'	RT
212	3012+20.00	53.00'	RT
213	3011+00.00	53.00'	RT
214	3010+50.00	33.10'	RT
215	3009+75.00	33.04'	RT
216	3009+50.00	60.00'	RT
217	3009+00.00	60.00'	RT
218	3008+00.00	32.91'	RT

BASIS OF R/W		
ROAD	DOCUMENT	YEAR
USH 12	DIVISION JOB 6872	1927
	CSM 2917	2004

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN DUNN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 600531.

LOCATION SKETCH
NOT TO SCALE

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I, JASON L. CANCE, 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 WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 7090-05-25-4.03 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE 6/19/2014
(PRINTED NAME) JASON L. CANCE
(REGISTRATION NUMBER) 2688

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION.

(SIGNATURE) _____ DATE 6/19/2014
(PRINTED NAME) MICHAEL PILLER

FILE NAME : P:\UZ\W\Witnw\118872\CAD\RDUSH1203DCamendment1.dgn PLOT TIME : 10:27:28 AM PLOT DATE : 7/7/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 72

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

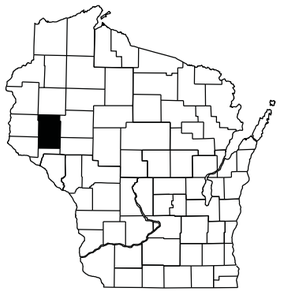
TRANSPORTATION PROJECT PLAT TITLE SHEET

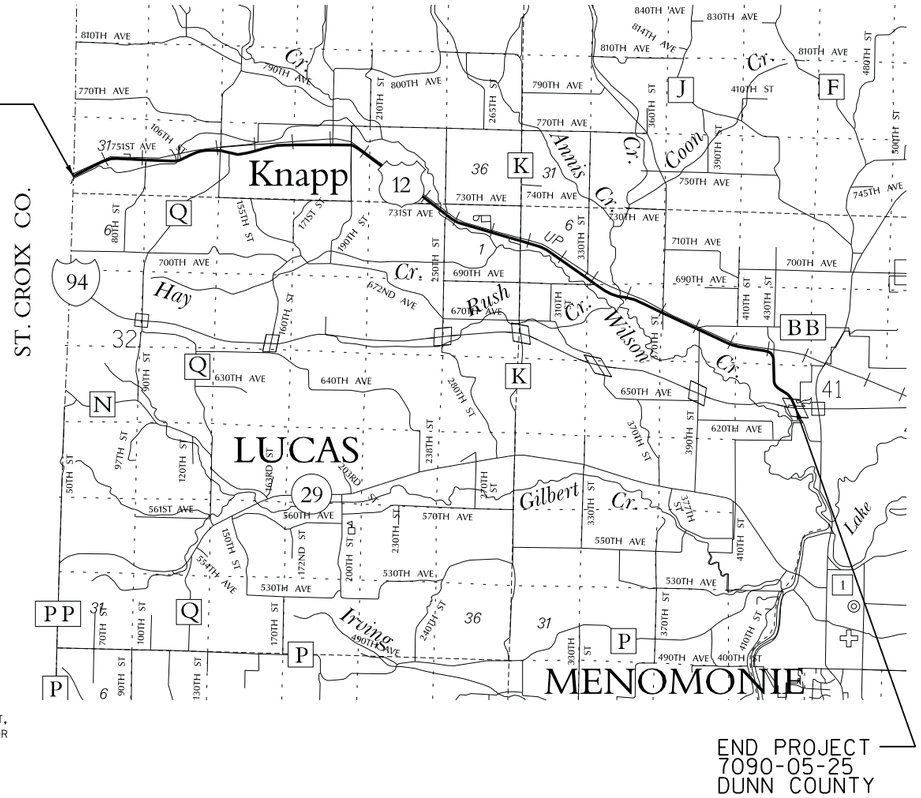
7090-05-25

STH 128 TO I 94

USH 12

DUNN COUNTY





N

LAYOUT
SCALE 0 1 MI.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DUNN COUNTY, NAD83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A **TEMPORARY LIMITED EASEMENT** (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLES EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A **PERMANENT LIMITED EASEMENT** (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

A **HIGHWAY EASEMENT** (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

FOR CURRENT ACCESS / DRIVEWAY INFORMATION, CONTACT THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION OFFICE.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	UP (1" UNLESS NOTED)	PROPOSED R/W LINE	
R/W MONUMENT	•(SET)	EXISTING H.E. LINE	
R/W TRAVERSE POINT	○	PROPERTY LINE	
R/W STANDARD	△ •(SET)	LOT & TIE LINES	
SIGN	ISIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT	◎	CORPORATE LIMITS	
SECTION CORNER SYMBOL	(SECTION CORNER SYMBOL)	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWB20	QUARTER LINE	
PARCEL NUMBER	102	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-1	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER	⊠	

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7090-05-25 - 4.03
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : P:\UZ\W\Witnw\118872\CAD\RTUSH1200DC.dgn
PLOT DATE : 2/3/2014
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : N/A
APPRAISAL PLAT DATE :

4.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W AC. REQUIRED			TLE AC.
			NEW	EXISTING	TOTAL	
12	KNAPP OASIS LLC.	TLE	---	---	---	0.01
13	CENTURY FENCE COMPANY	FEE	0.03	---	0.03	---
14	HARLAN WYSS	FEE	0.01	---	0.01	---

BASIS OF R/W		
ROAD	DOCUMENT	YEAR
USH 12	DIVISION JOB 6872	1927
	MAP OF SURVEY RONALD JASPERSON	2007
	CSM #1969 V.8 P.119	1998
	CSM #3546 V.16 P.166	2007
	MAP OF SURVEY W.A. HARDING	1938
	MAP OF SURVEY W.A. HARDING	----
	MAP OF SURVEY W.A. HARDING	1949
	MAP OF SURVEY JOSEPH NELSON	1992
OAK ST	WIS. STATUTE 82.31(2)	
KIMBALL ST	CSM #1969 V.8 P.119	1998
	MAP OF SURVEY W.A. HARDING	1938
PARK ST	MAP OF SURVEY W.A. HARDING	1938

RECOVERED MONUMENTS			
POINT	DESCRIPTION	Y	X
303	1" IRON PIPE	199297.808	120922.275
304	3/4" REBAR	198870.543	119921.732
305	MAG NAIL	198943.347	120161.289
321	1" IRON PIPE	199091.605	120036.453
322	1" IRON PIPE "HIT"	198984.647	120069.177

T 29 N, R 14 W, S 28, 33, 62

FOUND DUNN COUNTY ALUM. MONUMENT
Y= 200897.699
X= 120480.018

TRANSPORTATION PROJECT PLAT NO: 7090-05-25 - 4.04

THAT PART OF THE SW 1/4 OF THE NE 1/4 AND THAT PART OF THE SE 1/4 OF THE NW 1/4 OF SECTION 33, TOWNSHIP 29 NORTH RANGE 14 WEST.

RELOCATION ORDER USH 12 BALDWIN - MENOMONIE (STH 128 TO IH 94), DUNN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 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 DUNN COUNTY, WISCONSIN AT 2:38PM ON JANUARY 21, 2014 AS DOCUMENT # 600633 AND FILED IN VOL 9 PLATS PG 1
Heather M. Kuhn
SIGNATURE OF REGISTER OF DEEDS

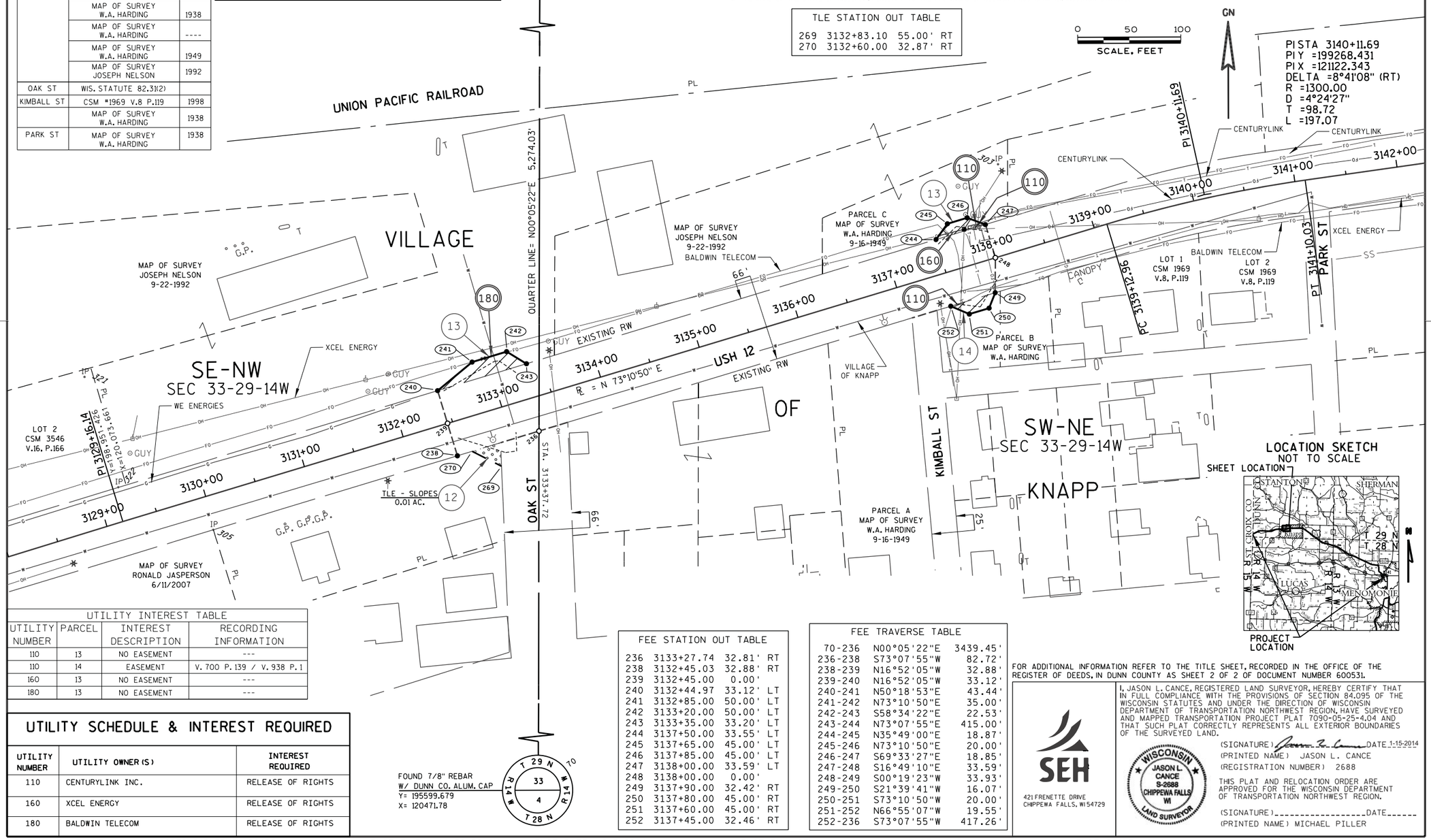
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7090-05-25-4.04
AMENDMENT NO:

TLE STATION OUT TABLE		
269	3132+83.10	55.00' RT
270	3132+60.00	32.87' RT

0 50 100
SCALE, FEET

GN

PISTA 3140+11.69
PIY =199268.431
PIX =121122.343
DELTA =8°41'08" (RT)
R =1300.00
D =4°24'27"
T =98.72
L =197.07



UTILITY INTEREST TABLE			
UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
110	13	NO EASEMENT	---
110	14	EASEMENT	V. 700 P. 139 / V. 938 P. 1
160	13	NO EASEMENT	---
180	13	NO EASEMENT	---

UTILITY SCHEDULE & INTEREST REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
110	CENTURYLINK INC.	RELEASE OF RIGHTS
160	XCEL ENERGY	RELEASE OF RIGHTS
180	BALDWIN TELECOM	RELEASE OF RIGHTS

FOUND 7/8" REBAR
W/ DUNN CO. ALUM. CAP
Y= 195599.679
X= 120471.78

T 29 N, R 14 W, S 33, 4, 70

FEE STATION OUT TABLE		
236	3133+27.74	32.81' RT
238	3132+45.03	32.88' RT
239	3132+45.00	0.00'
240	3132+44.97	33.12' LT
241	3132+85.00	50.00' LT
242	3133+20.00	50.00' LT
243	3133+35.00	33.20' LT
244	3137+50.00	33.55' LT
245	3137+65.00	45.00' LT
246	3137+85.00	45.00' LT
247	3138+00.00	33.59' LT
248	3138+00.00	0.00'
249	3137+90.00	32.42' RT
250	3137+80.00	45.00' RT
251	3137+60.00	45.00' RT
252	3137+45.00	32.46' RT

FEE TRAVERSE TABLE		
70-236	N00°05'22"E	3439.45'
236-238	S73°07'55"W	82.72'
238-239	N16°52'05"W	32.88'
239-240	N16°52'05"W	33.12'
240-241	N50°18'53"E	43.44'
241-242	N73°10'50"E	35.00'
242-243	S58°34'22"E	22.53'
243-244	N73°07'55"E	415.00'
244-245	N35°49'00"E	18.87'
245-246	N73°10'50"E	20.00'
246-247	S69°33'27"E	18.85'
247-248	S16°49'10"E	33.59'
248-249	S00°19'23"W	33.93'
249-250	S21°39'41"W	16.07'
250-251	S73°10'50"W	20.00'
251-252	N66°55'07"W	19.55'
252-236	S73°07'55"W	417.26'

LOCATION SKETCH
NOT TO SCALE

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN DUNN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 600531.

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I, JASON L. CANCE, 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 WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION, HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 7090-05-25-4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

(SIGNATURE) _____ DATE 1-15-2014
(PRINTED NAME) JASON L. CANCE
(REGISTRATION NUMBER) 2688

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION.

(SIGNATURE) _____ DATE _____
(PRINTED NAME) MICHAEL PILLER

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W AC. REQUIRED			TLE AC.
			NEW	EXISTING	TOTAL	
16	MURVILLE KUHN & MILDRED KUHN	FEE	0.05	---	0.05	---
17	L. STAN KUHN & AUDREY M. KUHN	FEE	0.05	---	0.05	---

TRANSPORTATION PROJECT PLAT NO: 7090-05-25 - 4.05 AMENDMENT NO. 1

AMENDS UTILITY NUMBER 120 AND BOUNDARY DESCRIPTION OF PARCEL 16 OF TRANSPORTATION PROJECT PLAT 7090-05-25-4.05 RECORDED AS DOCUMENT NO. 600634.

THAT PART OF THE NE 1/4 OF THE NE 1/4 AND PART OF THE SE 1/4 OF THE NE 1/4 OF SECTION 34, T29N, R14W, TOWN OF STANTON, DUNN COUNTY WISCONSIN.

RELOCATION ORDER USH 12 BALDWIN - MENOMONIE (STH 128 TO IH 94), DUNN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 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.

Dunn County
Date: July 7, 2014
Doc. No. 603238
Vol 9 Plats Pg 12
Charles D. Larson, Deputy

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7090-02-25-4.05
AMENDMENT NO: 1

PISTA 3200+54.61
PIY =199581.144
PIX =127151.000
DELTA =37°13'18" (RT)
R =950.00
D =6°01'52"
T =319.91
L =617.16

NE-NE
SEC 34-29-14W

FEE TRAVERSE TABLE		
76-258	N00°29'26"W	1311.08'
258-259	S89°30'34"W	1077.84'
259-260	S21°51'28"W	32.63'
260-261	S84°22'32"W	50.95'
261-262	N71°56'32"W	28.26'
262-263	N57°02'18"W	72.19'
263-264	N12°48'38"E	32.70'
264-265	N12°48'38"E	33.30'
265-266	N88°55'17"E	78.39'
266-267	S71°56'32"E	31.74'
267-268	S46°17'51"E	54.68'
268-259	S21°51'24"W	33.37'

COMP FROM TIES
Y=200827.037
X=128279.346

T 29 N, R 14 W, Sec 27, 26, 34, 35

SECTION LINE = S00°29'26"E 2625.07

UTILITY INTEREST TABLE			
UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
110	16	NO EASEMENT	---
110	17	EASEMENT	V. 390 P. 229 / V. 938 P. 1
120	17	EASEMENT	V. 126 P. 330

BASIS OF R/W		
ROAD	DOCUMENT	YEAR
USH 12	DIVISION JOB 6872	1927
190TH ST	WIS. STATUTE 82.31(2)	

FOUND 7/8" REBAR
W/ DUNN CO. ALUM. CAP
Y=198202.065
X=128301.818

T 29 N, R 14 W, Sec 34, 35

UTILITY SCHEDULE & INTEREST REQUIRED		
UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
110	CENTURYLINK INC.	RELEASE OF RIGHTS
120	DUNN COUNTY ELECTRIC CO-OP	RELEASE OF RIGHTS

FEE STATION OUT TABLE			
259	3201+25.00	0.00'	RT
260	3201+25.00	32.63'	RT
261	3200+77.00	55.00'	RT
262	3200+47.00	55.00'	RT
263	3199+75.00	32.70'	RT
264	3199+75.00	0.00'	RT
265	3199+75.00	33.30'	LT
266	3200+47.00	55.00'	LT
267	3200+77.00	55.00'	LT
268	3201+25.00	33.37'	LT

LOCATION SKETCH
NOT TO SCALE
SHEET LOCATION
PROJECT LOCATION

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN DUNN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 600531.

SEH
821 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

SCALE, FEET: 0, 50, 100

FILE NAME : P:\0\2\4\Wisdot\116872\CAD\RDWY\120DEDpersheet1.dgn PLOT DRC : 116872 PY PLOT DATE : 5-28-2014 PLOT BY : JE PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 72

TRANSPORTATION PROJECT PLAT NO: 7090-05-25 - 4.06
AMENDMENT NO. 1

AMENDS PARCEL 19 OF TRANSPORTATION PROJECT PLAT 7090-05-25-4.06 RECORDED AS DOCUMENT NO. 600635.

THAT PART LOT 1 OF CERTIFIED SURVEY MAP 3670, VOLUME 17, PAGE 120, LOCATED IN AND PART OF THE NE 1/4 OF THE NE 1/4 OF SECTION 2 AND THE NW 1/4 OF THE NW 1/4 OF SECTION 1, ALL IN T28N, R14W, TOWN OF LUCAS, DUNN COUNTY, WISCONSIN.

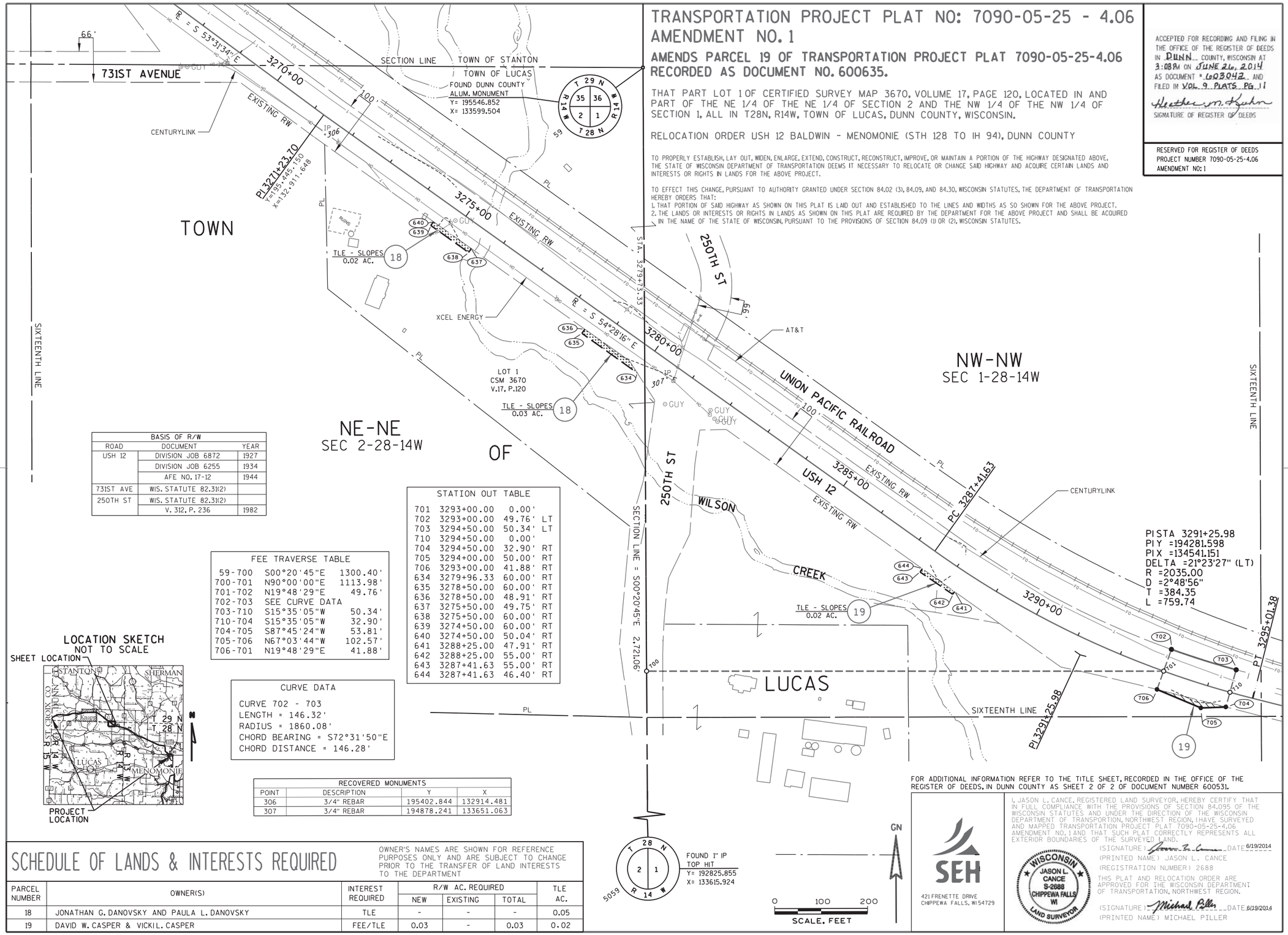
RELOCATION ORDER USH 12 BALDWIN - MENOMONIE (STH 128 TO IH 94), DUNN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 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 DUNN COUNTY, WISCONSIN AT 3:08 PM ON JUNE 26, 2014 AS DOCUMENT # 603042 AND FILED IN VOL. 9 PLATS PG. 11
Heather M. Kuhn
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7090-05-25-4.06
AMENDMENT NO: 1



BASIS OF R/W		
ROAD	DOCUMENT	YEAR
USH 12	DIVISION JOB 6872	1927
	DIVISION JOB 6255	1934
	AFE NO. 17-12	1944
731ST AVE	WIS. STATUTE 82.31(2)	
250TH ST	WIS. STATUTE 82.31(2)	
	V. 312, P. 236	1982

FEE TRAVERSE TABLE		
59-700	S00°20'45"E	1300.40'
700-701	N90°00'00"E	1113.98'
701-702	N19°48'29"E	49.76'
702-703	SEE CURVE DATA	
703-710	S15°35'05"W	50.34'
710-704	S15°35'05"W	32.90'
704-705	S87°45'24"W	53.81'
705-706	N67°03'44"W	102.57'
706-701	N19°48'29"E	41.88'

STATION OUT TABLE			
701	3293+00.00	0.00'	
702	3293+00.00	49.76'	LT
703	3294+50.00	50.34'	LT
710	3294+50.00	0.00'	
704	3294+50.00	32.90'	RT
705	3294+00.00	50.00'	RT
706	3293+00.00	41.88'	RT
634	3279+96.33	60.00'	RT
635	3278+50.00	60.00'	RT
636	3278+50.00	48.91'	RT
637	3275+50.00	49.75'	RT
638	3275+50.00	60.00'	RT
639	3274+50.00	60.00'	RT
640	3274+50.00	50.04'	RT
641	3288+25.00	47.91'	RT
642	3288+25.00	55.00'	RT
643	3287+41.63	55.00'	RT
644	3287+41.63	46.40'	RT

LOCATION SKETCH
NOT TO SCALE
SHEET LOCATION

PROJECT LOCATION

CURVE DATA
CURVE 702 - 703
LENGTH = 146.32'
RADIUS = 1860.08'
CHORD BEARING = S72°31'50"E
CHORD DISTANCE = 146.28'

RECOVERED MONUMENTS			
POINT	DESCRIPTION	Y	X
306	3/4" REBAR	195402.844	132914.481
307	3/4" REBAR	194878.241	133651.063

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W AC. REQUIRED			TLE AC.
			NEW	EXISTING	TOTAL	
18	JONATHAN G. DANOVSKY AND PAULA L. DANOVSKY	TLE	-	-	-	0.05
19	DAVID W. CASPER & VICKI L. CASPER	FEE/TLE	0.03	-	0.03	0.02

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN DUNN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 600531.

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I, JASON L. CANCE, 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 WISCONSIN DEPARTMENT OF TRANSPORTION, NORTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 7090-05-25-4.06 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE 6/19/2014
(PRINTED NAME) JASON L. CANCE
(REGISTRATION NUMBER) 2688

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHWEST REGION.

(SIGNATURE) _____ DATE 6/19/2014
(PRINTED NAME) MICHAEL PILLER

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W AC. REQUIRED			TLE AC.
			NEW	EXISTING	TOTAL	
6	UNION PACIFIC RAILROAD	TLE	---	---	---	0.11
21	DUNN COUNTY	TLE	---	---	---	0.03
22	WISCONSIN DEPARTMENT OF NATURAL RESOURCES	TLE	---	---	---	0.03
23	RICKEY JAY TEEGARDEN	FEE	0.20	---	0.20	---

TRANSPORTATION PROJECT PLAT NO: 7090-05-25 - 4.07

THAT PART OF THE SE 1/4 OF THE NW 1/4 AND THAT PART OF THE SW 1/4 OF THE NE 1/4, SECTION 1, T28N, R14W, TOWN OF LUCAS, DUNN COUNTY, WISCONSIN

RELOCATION ORDER USH 12 BALDWIN - MENOMONIE (STH 128 TO IH 94), DUNN COUNTY

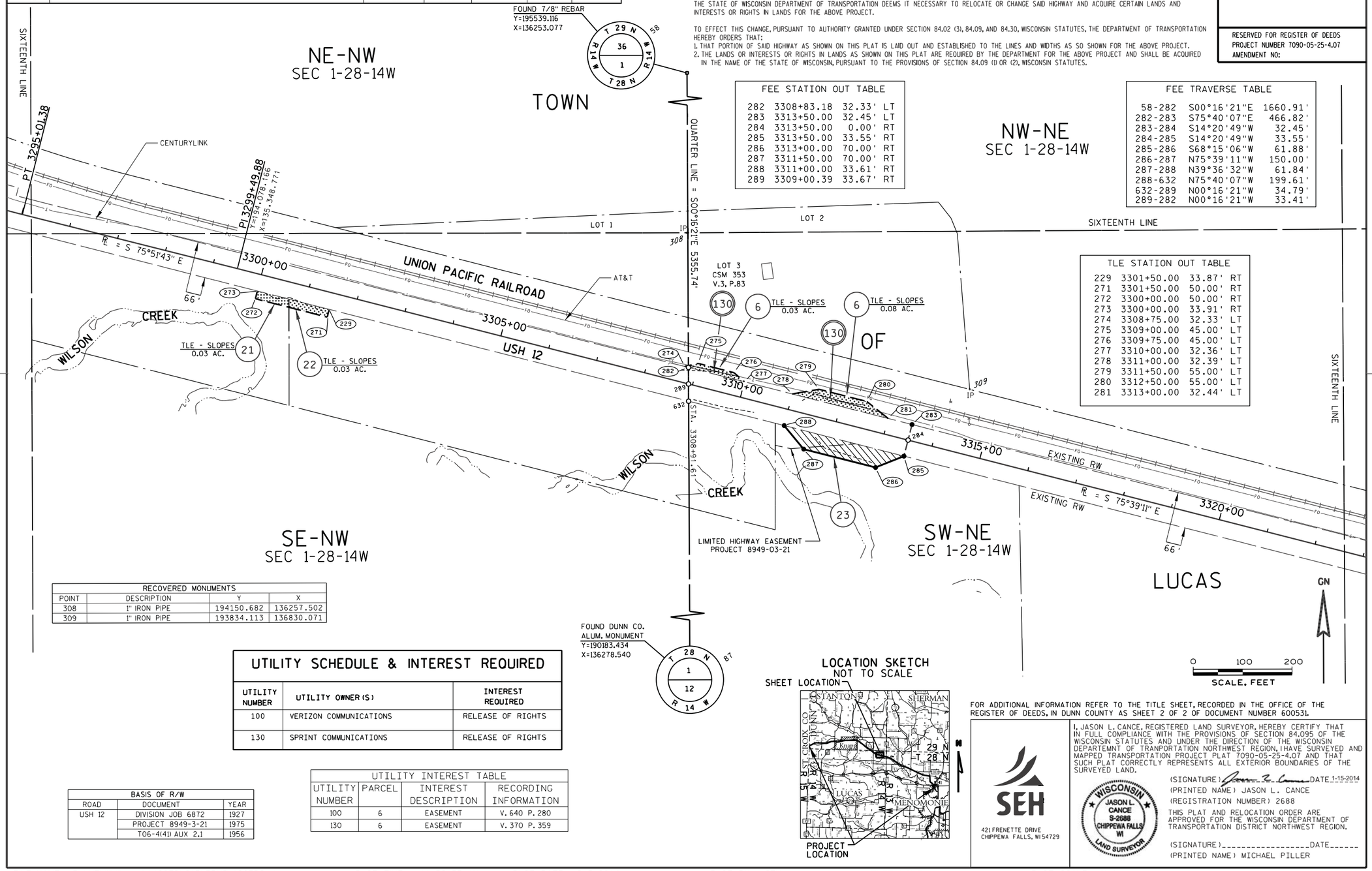
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 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 DUNN COUNTY, WISCONSIN AT 2:38PM ON JANUARY 21, 2014 AS DOCUMENT # 600630 AND FILED IN VOL 9 PLATS PG 4

Heather M. Kuhn
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7090-05-25-4.07
AMENDMENT NO:



FEE STATION OUT TABLE		
282	3308+83.18	32.33' LT
283	3313+50.00	32.45' LT
284	3313+50.00	0.00' RT
285	3313+50.00	33.55' RT
286	3313+00.00	70.00' RT
287	3311+50.00	70.00' RT
288	3311+00.00	33.61' RT
289	3309+00.39	33.67' RT

FEE TRAVERSE TABLE		
58-282	S00°16'21"E	1660.91'
282-283	S75°40'07"E	466.82'
283-284	S14°20'49"W	32.45'
284-285	S14°20'49"W	33.55'
285-286	S68°15'06"W	61.88'
286-287	N75°39'11"W	150.00'
287-288	N39°36'32"W	61.84'
288-632	N75°40'07"W	199.61'
632-289	N00°16'21"W	34.79'
289-282	N00°16'21"W	33.41'

TLE STATION OUT TABLE		
229	3301+50.00	33.87' RT
271	3301+50.00	50.00' RT
272	3300+00.00	50.00' RT
273	3300+00.00	33.91' RT
274	3308+75.00	32.33' LT
275	3309+00.00	45.00' LT
276	3309+75.00	45.00' LT
277	3310+00.00	32.36' LT
278	3311+00.00	32.39' LT
279	3311+50.00	55.00' LT
280	3312+50.00	55.00' LT
281	3313+00.00	32.44' LT

RECOVERED MONUMENTS			
POINT	DESCRIPTION	Y	X
308	1" IRON PIPE	194150.682	136257.502
309	1" IRON PIPE	193834.113	136830.071

UTILITY SCHEDULE & INTEREST REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
100	VERIZON COMMUNICATIONS	RELEASE OF RIGHTS
130	SPRINT COMMUNICATIONS	RELEASE OF RIGHTS

BASIS OF R/W		
ROAD	DOCUMENT	YEAR
USH 12	DIVISION JOB 6872	1927
	PROJECT 8949-3-21	1975
	T06-4(41) AUX 2.1	1956

UTILITY INTEREST TABLE			
UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
100	6	EASEMENT	V. 640 P. 280
130	6	EASEMENT	V. 370 P. 359

FOUND DUNN CO. ALUM. MONUMENT
Y=190183.434
X=136278.540
T 28 N
R 14 W
1
12

LOCATION SKETCH
NOT TO SCALE
SHEET LOCATION
PROJECT LOCATION

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN DUNN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 600531.

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I, JASON L. CANCE, 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 WISCONSIN DEPARTMENT OF TRANPORTATION NORTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 7090-05-25-4.07 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE 1-15-2014
(PRINTED NAME) JASON L. CANCE
(REGISTRATION NUMBER) 2688

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION DISTRICT NORTHWEST REGION.

(SIGNATURE) _____ DATE _____
(PRINTED NAME) MICHAEL PILLER

TRANSPORTATION PROJECT PLAT NO: 7090-05-25 - 4.08

THAT PART OF THE NW 1/4 OF THE SE 1/4 AND THAT PART OF THE NE 1/4 OF THE SE 1/4 OF SECTION 6, T28N, R13W, TOWN OF MENOMONIE, DUNN COUNTY, WISCONSIN

RELOCATION ORDER USH 12 BALDWIN - MENOMONIE (STH 128 TO IH 94), DUNN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 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 DUNN COUNTY, WISCONSIN AT 2:38PM ON JANUARY 21, 2014 AS DOCUMENT # 600637 AND FILED IN VOL 9 PLATS PG 5

Heather M. Kuhn
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7090-05-25-4.08
AMENDMENT NO:

UTILITY SCHEDULE & INTEREST REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
100	VERIZON COMMUNICATIONS	RELEASE OF RIGHTS
130	SPRINT COMMUNICATIONS COMPANY	RELEASE OF RIGHTS
140	AT&T	RELEASE OF RIGHTS

TOWN

MAP OF SURVEY
BY JASON CANCE
DATED 9-10-2012

OF

MAP OF SURVEY
BY JASON CANCE
DATED 9-10-2012

NW-SE
SEC 6-28-13W

NE-SE
SEC 6-28-13W

SW-SE
SEC 6-28-13W

SE-SE
SEC 6-28-13W

MENOMONIE

FOUND 3/4" IRON ROD
Y= 192830.992
X= 143745.056

FOUND MAG NAIL
Y= 190190.517
X= 143740.417

SECTION LINE = N00°06'02"E 2,640.48'

DUNN COUNTY ELECTRIC CO-OP

LIMITED HIGHWAY EASEMENT
PROJECT 8949-3-21
VOL. 207 PG. 467

SIXTEENTH LINE

SIXTEENTH LINE

UNION PACIFIC RAILROAD

USH 12

AT&T

EXISTING RW

66'

3371+00
3372+00
3373+00
3374+00
3375+00
3376+00
3377+00
3378+00
3379+00
3380+00
3381+00
3382+00
3383+00

TLE - SLOPES
0.03 AC.

P.I. 3376+56.75
Y=191,396.399
X=142,517.504

R = S 55°14'34" E

@ GUY

25
26

UTILITY INTEREST TABLE

UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
100	6	EASEMENT	DOC. # 425235
130	6	EASEMENT	DOC. # 373548
	26	EASEMENT	DOC. # 597286
140	25	EASEMENT	DOC. # 285357
	26	EASEMENT	DOC. # 114566

FEE / TLE TRAVERSE TABLE

93-290	S00°06'02"W	1290.40'
290-291	N89°53'58"W	1232.12'
291-292	S54°51'57"W	35.83'
292-293	S54°51'57"W	34.44'
293-294	S89°37'32"W	42.74'
294-295	N40°03'45"W	94.27'
295-296	N34°50'14"E	32.44'
296-297	N34°50'14"E	33.56'
297-298	S69°21'29"E	67.05'
298-291	S44°16'54"E	86.56'

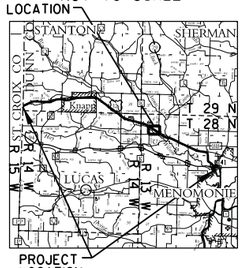
STATION OUT TABLE

291	3376+25.00	33.66' LT
292	3376+12.73	0.00' RT
293	3376+00.93	32.35' RT
294	3375+66.01	57.00' RT
295	3374+75.00	32.44' RT
296	3374+75.00	0.00' RT
297	3374+75.00	33.56' LT
298	3375+40.00	50.00' LT

BASIS OF R/W

ROAD	DOCUMENT	YEAR
USH 12	DIVISION JOB 6872	1927
	PROJECT 8949-3-21	1975

LOCATION SKETCH
NOT TO SCALE
SHEET LOCATION



PROJECT LOCATION

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W AC. REQUIRED			TLE AC.
			NEW	EXISTING	TOTAL	
6	UNION PACIFIC RAILROAD	TLE	---	---	---	0.03
25	JASON C. & LISA K. PELNAR	FEE	0.03	---	0.03	---
26	FREDRICK M. LARSON	FEE	0.01	---	0.01	---

GN

0 50 100
SCALE, FEET

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN DUNN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 600531.

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I, JASON L. CANCE, 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 WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 7090-05-25-4.08 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE 1-15-2014
(PRINTED NAME) JASON L. CANCE
(REGISTRATION NUMBER) 2688

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION.

(SIGNATURE) _____ DATE _____
(PRINTED NAME) MICHAEL PILLER

FILE NAME : P:\UZ\W\Witnw\118872\CAD\RDUSH1208DC.dgn PLOT TIME : 11:56:33 AM PLOT DATE : 2/3/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 72

TRANSPORTATION PROJECT PLAT NO: 7090-05-25 - 4.09

THAT PART OF LOT 1 CERTIFIED SURVEY MAP NO. 1444, VOLUME 5, PAGE 244 LOCATED IN THE NE 1/4 OF THE NW 1/4, ALSO THAT PART OF THE NW 1/4 OF THE NE 1/4, ALL IN SECTION 8, T28N, R13W, TOWN OF MENOMONIE, DUNN COUNTY, WISCONSIN

RELOCATION ORDER USH 12 DUNN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 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 DUNN COUNTY, WISCONSIN AT 2:38PM ON JANUARY 21, 2014 AS DOCUMENT # 600638 AND FILED IN VOL 9 PLATS PG 6

Heather McKuhn
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7090-05-25-4.09
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W AC. REQUIRED			TLE AC.
			NEW	EXISTING	TOTAL	
6	UNION PACIFIC RAILROAD	TLE	-	-	-	.02
28	WILLIAM T. LUPO	FEE	.05	-	.05	-

FOUND MAG NAIL
Y= 190190.517
X= 143740.417

FOUND DUNN COUNTY ALUM. MONUMENT
Y= 190159.551
X= 146360.053

CURVE DATA
CURVE 434 - 435
LENGTH = 147.92'
RADIUS = 1465.39'
CHORD BEARING = N80°17'39"W
CHORD DISTANCE = 147.86'

SECTION LINE = S89°33'09"E 2,610.78'

FEE TRAVERSE TABLE

5055-431	S00°01'43"E	729.95'
431-432	S89°58'17"W	556.56'
432-433	S06°45'30"W	32.71'
433-434	N83°11'07"W	20.56'
434-435	SEE CURVE DATA	
435-436	N12°47'33"E	33.44'
436-437	N12°47'33"E	32.56'
437-438	N72°17'09"E	55.66'
438-439	S67°55'00"E	114.71'
439-432	S06°45'30"W	33.29'

PISTA 3424+79.40
PIY =189321.712
PIX =146711.908
DELTA =16°41'03" (RT)
R =2700.00
D =2°07'19"
T =395.91
L =786.22

STATION OUT TABLE

432	3415+65.00	0.00'	
433	3415+65.00	32.71'	RT
434	3415+44.67	32.73'	RT
435	3414+00.00	33.44'	RT
436	3414+00.00	0.00'	
437	3414+00.00	32.56'	LT
438	3414+50.00	60.00'	LT
439	3415+65.00	33.29'	LT
440	3423+50.00	33.11'	LT
441	3424+00.00	40.00'	LT
442	3424+50.00	40.00'	LT
443	3425+00.00	33.06'	LT

PISTA 3412+01.47
PIY =189473.844
PIX =145428.158
DELTA =28°04'01" (LT)
R =1475.00
D =3°53'04"
T =368.67
L =722.54

UTILITY INTEREST TABLE

UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
100	6	EASEMENT	DOC. #425235
120	28	EASEMENT	DOC. #513054
130	6	EASEMENT	V.370 P.359
140	6	EASEMENT	V.208 P.294
	28	EASEMENT	V.208 P.294
	28	EASEMENT	V.271 P.477

LOCATION SKETCH
NOT TO SCALE
SHEET LOCATION
PROJECT LOCATION

UTILITY SCHEDULE & INTEREST REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
100	VERIZON COMMUNICATIONS	RELEASE OF RIGHTS
120	DUNN ELECTRIC	RELEASE OF RIGHTS
130	SPRINT COMMUNICATIONS	RELEASE OF RIGHTS
140	AT&T	RELEASE OF RIGHTS

RECOVERED MONUMENTS

POINT	DESCRIPTION	Y	X
312	1" IRON PIPE	189398.364	145793.114
313	1" IRON PIPE	189351.746	145787.548
314	3/4" REBAR	189261.942	146698.704

FOUND 7/8" REBAR
W/ DUNN CO. ALUM. CAP
Y= 184886.863
X= 146362.693

BASIS OF R/W

ROAD	DOCUMENT	YEAR
USH 12	DIVISION JOB 6872	1927
	PROJECT 8949-3-21	1975
	PROJ. T06-4(2)	1948
	CSM #1444	1995
	CSM #2966	1997
	CSM #3114	2004
	CSM #285	1981

SCALE: FEET 0 100 200

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN DUNN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 600531.

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I, JASON L. CANCE, 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 WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 7090-05-25-4.09 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE 1-15-2014
(PRINTED NAME) JASON L. CANCE
(REGISTRATION NUMBER) 2688

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION.

(SIGNATURE) _____ DATE _____
(PRINTED NAME) MICHAEL PILLER

TRANSPORTATION PROJECT PLAT NO: 7090-05-25 - 4.10

THAT PART OF LOT 2 OF CERTIFIED SURVEY MAP 1401, VOLUME 5, PAGE 202, LOCATED IN THE SE 1/4 OF THE NE 1/4 OF SECTION 8, ALSO THAT PART OF THE SW 1/4 OF THE NW 1/4, AND THE SE 1/4 OF THE NW 1/4 OF SECTION 9, ALL IN T28N, R13W, TOWN OF MENOMONIE, DUNN COUNTY WISCONSIN.

RELOCATION ORDER USH 12 BALDWIN - MENOMONIE (STH 128TO IH 94), DUNN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 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 DUNN COUNTY, WISCONSIN AT 2:38 PM ON JANUARY 21, 2014 AS DOCUMENT # 600639 AND FILED IN VOL 9 PLATS PG 7
Heather M. Kuhn
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7090-05-25-4.10
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W AC. REQUIRED			TLE AC.
			NEW	EXISTING	TOTAL	
6	UNION PACIFIC RAILROAD	TLE	-	-	-	.07
31	YANG & SOUA KHANG	FEE	.02	-	.02	-
32	GARY WELCH	FEE	.02	-	.02	-

STATION OUT TABLE		
401	3442+25.00	0.00' RT
402	3442+25.00	32.73' RT
403	3441+65.00	50.00' RT
404	3441+00.00	32.82' RT
405	3441+00.00	0.00' RT
406	3441+00.00	33.18' LT
407	3441+50.00	50.00' LT
408	3441+75.00	50.00' LT
409	3442+25.00	33.27' LT
444	3441+25.00	32.80' LT

FEE TRAVERSE TABLE		
5057-410	N00°16'26"E	400.00'
410-411	N88°51'32"E	1071.60'
411-412	N23°14'19"E	33.04'
412-420	S66°45'22"E	450.00'
420-421	S23°14'19"W	33.00'
421-422	S23°14'19"W	33.00'
422-423	N74°47'55"W	85.84'
423-424	N56°17'16"W	66.10'
424-425	N66°45'22"W	300.00'
425-411	N23°14'19"E	32.96'

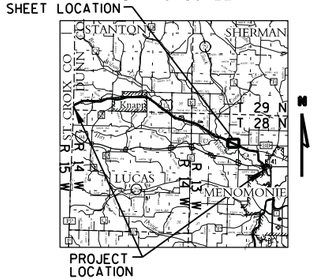
STATION OUT TABLE		
411	3461+00.00	0.00' RT
412	3461+00.00	33.04' LT
413	3461+00.00	40.00' LT
414	3462+25.00	40.00' LT
415	3462+25.00	33.03' LT
416	3463+50.00	33.02' LT
417	3463+50.00	40.00' LT
418	3464+75.00	40.00' LT
419	3464+75.00	33.01' LT
420	3465+50.00	33.00' LT
421	3465+50.00	0.00' RT
422	3465+50.00	33.00' RT
423	3464+65.00	45.00' RT
424	3464+00.00	32.98' RT
425	3461+00.00	32.96' RT

UTILITY INTEREST TABLE			
UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
100	6	EASEMENT	DOC. # 425235
120	32	NO EASEMENT	---
130	6	EASEMENT	DOC. # 373548
140	6	EASEMENT	DOC. # 285776
	31	EASEMENT	DOC. # 285798
	32	EASEMENT	DOC. # 320702

UTILITY SCHEDULE & INTEREST REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
100	VERIZON COMMUNICATIONS	RELEASE OF RIGHTS
120	DUNN COUNTY ELECTRIC COOP	RELEASE OF RIGHTS
130	SPRINT COMMUNICATIONS	RELEASE OF RIGHTS
140	AT&T	RELEASE OF RIGHTS

LOCATION SKETCH
NOT TO SCALE



FEE TRAVERSE TABLE		
5057-400	N00°16'26"E	1159.75'
400-401	N89°43'34"W	654.39'
401-402	S23°26'33"W	32.73'
402-403	N82°37'05"W	62.44'
403-444	N43°17'41"W	43.54'
444-404	N66°36'07"W	25.00'
404-405	N23°26'33"E	32.82'
405-406	N23°26'33"E	33.18'
406-409	S66°36'07"E	125.00'
409-401	S23°26'33"W	33.27'

RECOVERED MONUMENTS			
POINT	DESCRIPTION	Y	X
318	1" IRON PIPE	188404.051	148749.631
319	3/4" REBAR	188403.305	148749.332
320	3/4" REBAR	187834.954	150072.804

BASIS OF R/W		
ROAD	DOCUMENT	YEAR
USH 12	DIVISION JOB 6872	1927
	PROJECT 8949-3-21	1975
	PROJ. 8949-3-21	1976
	CSM #1817	1997
	CSM #1401	1994
370TH ST	PROJ. 8949-3-21	1976
STH 79	PROJ. 8949-3-21	1976

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN DUNN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 600531.

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I, JASON L. CANCE, 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 WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 7090-05-25-4.10 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE 1-15-2014
(PRINTED NAME) JASON L. CANCE
(REGISTRATION NUMBER) 2688

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION.

(SIGNATURE) _____ DATE _____
(PRINTED NAME) MICHAEL PILLER

TRANSPORTATION PROJECT PLAT NO: 7090-05-25 - 4.11

THAT PART OF THE SE 1/4 OF THE SW 1/4 OF SECTION 10, TOWNSHIP 28 NORTH, RANGE 13 WEST, TOWN OF MENOMONIE, DUNN COUNTY, WISCONSIN.

RELOCATION ORDER USH 12 BALDWIN - MENOMONIE (STH 128 TO IH 94), DUNN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 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 DUNN COUNTY, WISCONSIN AT 2:38 PM ON JANUARY 21, 2014 AS DOCUMENT # 600640 AND FILED IN VOL 9 PLATS PG 8

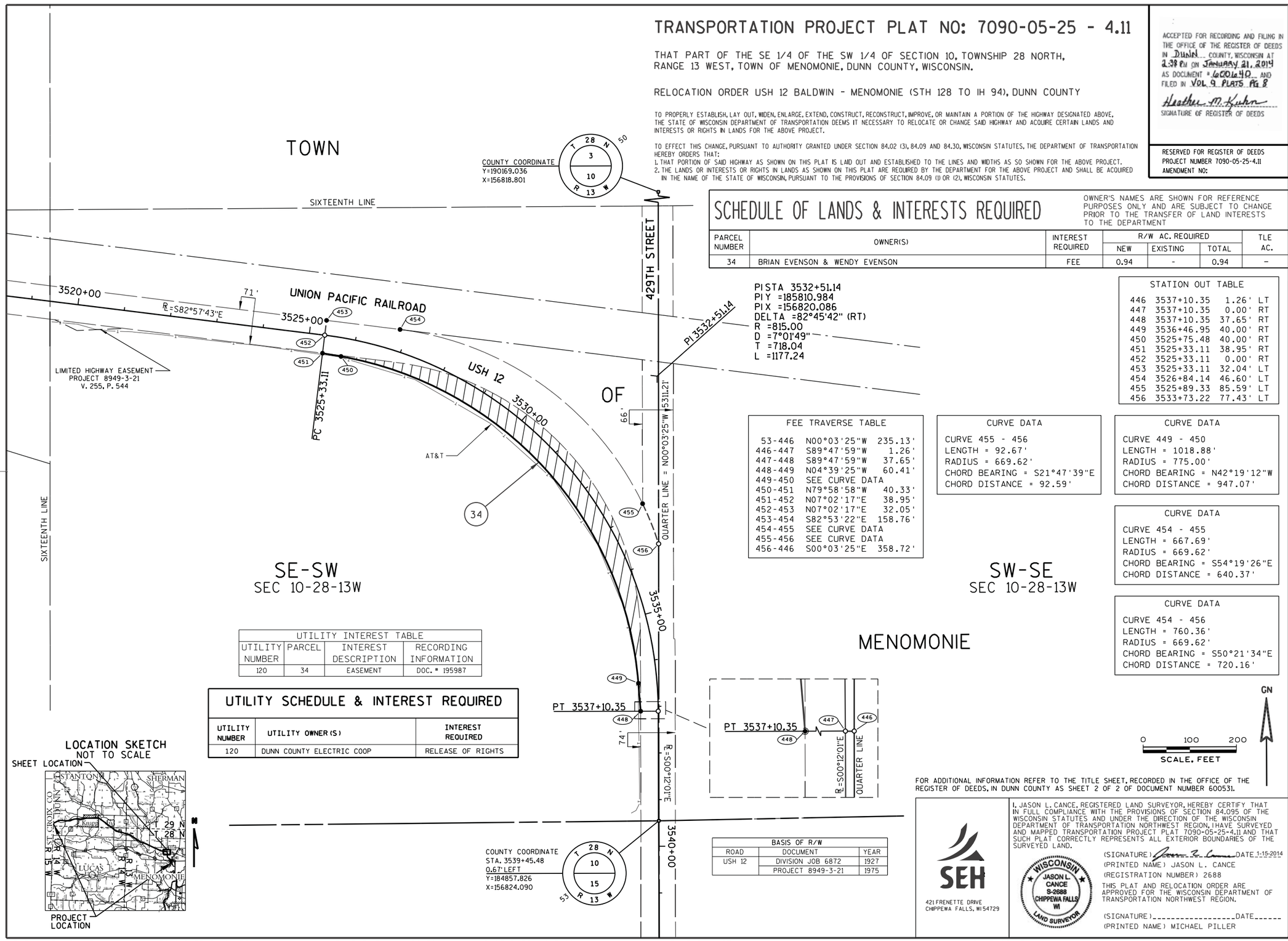
Heather M. Kuhn
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7090-05-25-4.11
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W AC. REQUIRED			TLE AC.
			NEW	EXISTING	TOTAL	
34	BRIAN EVENSON & WENDY EVENSON	FEE	0.94	-	0.94	-



STATION OUT TABLE		
446	3537+10.35	1.26' LT
447	3537+10.35	0.00' RT
448	3537+10.35	37.65' RT
449	3536+46.95	40.00' RT
450	3525+75.48	40.00' RT
451	3525+33.11	38.95' RT
452	3525+33.11	0.00' RT
453	3525+33.11	32.04' LT
454	3526+84.14	46.60' LT
455	3525+89.33	85.59' LT
456	3533+73.22	77.43' LT

FEE TRAVERSE TABLE		
53-446	N00°03'25"W	235.13'
446-447	S89°47'59"W	1.26'
447-448	S89°47'59"W	37.65'
448-449	N04°39'25"W	60.41'
449-450	SEE CURVE DATA	
450-451	N79°58'58"W	40.33'
451-452	N07°02'17"E	38.95'
452-453	N07°02'17"E	32.05'
453-454	S82°53'22"E	158.76'
454-455	SEE CURVE DATA	
455-456	SEE CURVE DATA	
456-446	S00°03'25"E	358.72'

CURVE DATA
CURVE 455 - 456
LENGTH = 92.67'
RADIUS = 669.62'
CHORD BEARING = S21°47'39"E
CHORD DISTANCE = 92.59'

CURVE DATA
CURVE 449 - 450
LENGTH = 1018.88'
RADIUS = 775.00'
CHORD BEARING = N42°19'12"W
CHORD DISTANCE = 947.07'

CURVE DATA
CURVE 454 - 455
LENGTH = 667.69'
RADIUS = 669.62'
CHORD BEARING = S54°19'26"E
CHORD DISTANCE = 640.37'

CURVE DATA
CURVE 454 - 456
LENGTH = 760.36'
RADIUS = 669.62'
CHORD BEARING = S50°21'34"E
CHORD DISTANCE = 720.16'

UTILITY INTEREST TABLE			
UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
120	34	EASEMENT	DOC. # 195987

UTILITY SCHEDULE & INTEREST REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
120	DUNN COUNTY ELECTRIC COOP	RELEASE OF RIGHTS

LOCATION SKETCH
NOT TO SCALE
SHEET LOCATION
PROJECT LOCATION
STANTON
SHERMAN
ST CROIX CO
DUNN
LUCAS
MENOMONIE
T 29 N
T 28 N
R 15 W
R 14 W
R 13 W
R 12 W
R 11 W
R 10 W
R 9 W
R 8 W
R 7 W
R 6 W
R 5 W
R 4 W
R 3 W
R 2 W
R 1 W
R 1 E
R 2 E
R 3 E
R 4 E
R 5 E
R 6 E
R 7 E
R 8 E
R 9 E
R 10 E
R 11 E
R 12 E
R 13 E
R 14 E
R 15 E
T 27 N
T 26 N
T 25 N
T 24 N
T 23 N
T 22 N
T 21 N
T 20 N
T 19 N
T 18 N
T 17 N
T 16 N
T 15 N
T 14 N
T 13 N
T 12 N
T 11 N
T 10 N
T 9 N
T 8 N
T 7 N
T 6 N
T 5 N
T 4 N
T 3 N
T 2 N
T 1 N
T 1 S
T 2 S
T 3 S
T 4 S
T 5 S
T 6 S
T 7 S
T 8 S
T 9 S
T 10 S
T 11 S
T 12 S
T 13 S
T

BEGIN PROJECT
STA 10+00.00
Y= 335310.6952
X= 656210.7855
MATCH EXISTING
SAWCUT REQ'D

PC 0+65.08

CURVE DATA
DELTA =40°05'46" (LT)
D =3°00'00"
T =696.94
L =1336.53
E =123.19
R =1909.86
DB =S 50°19'10" E
DA =N 89°35'04" E
PC STA 0+65.08
PC Y =335711.465
PC X =655376.436
PI STA 7+62.03
PI Y =335266.462
PI X =655912.816
PT STA 14+01.62
PT Y =335271.515
PT X =656609.743
SE = 5.0

STH 128

PT 14+01.62

MATCHLINE STA 15+00

R/W

5+00

10+00

USH 12

25 382.714

WEST WISCONSIN TELECOM COOP

WEST WISCONSIN TELECOM COOP

LEGEND
EMAT URBAN
CLASS I TYPE A
SILT FENCE

SPRINT

VERIZON BUSINESS (MCI)

AT&T LEGACY

BACK 26+99.77
AHEAD 495+65.00
EQUATION

PI 23+25.24

25+00

S 73°29'52" E

MATCHLINE STA 499+00

PT 26+01.27

20+00

N 89°35'04" E

PC 20+45.19

MATCHLINE STA 15+00

STA 17+21 RT
CONSTRUCT ASPH PE

STA 22+15.24
MARKER CULVERT END LT REQ'D

STA 22+30.09
CLEANING CULVERT PIPE REQ'D
INSTALL MARKER CULVERT END LT REQ'D

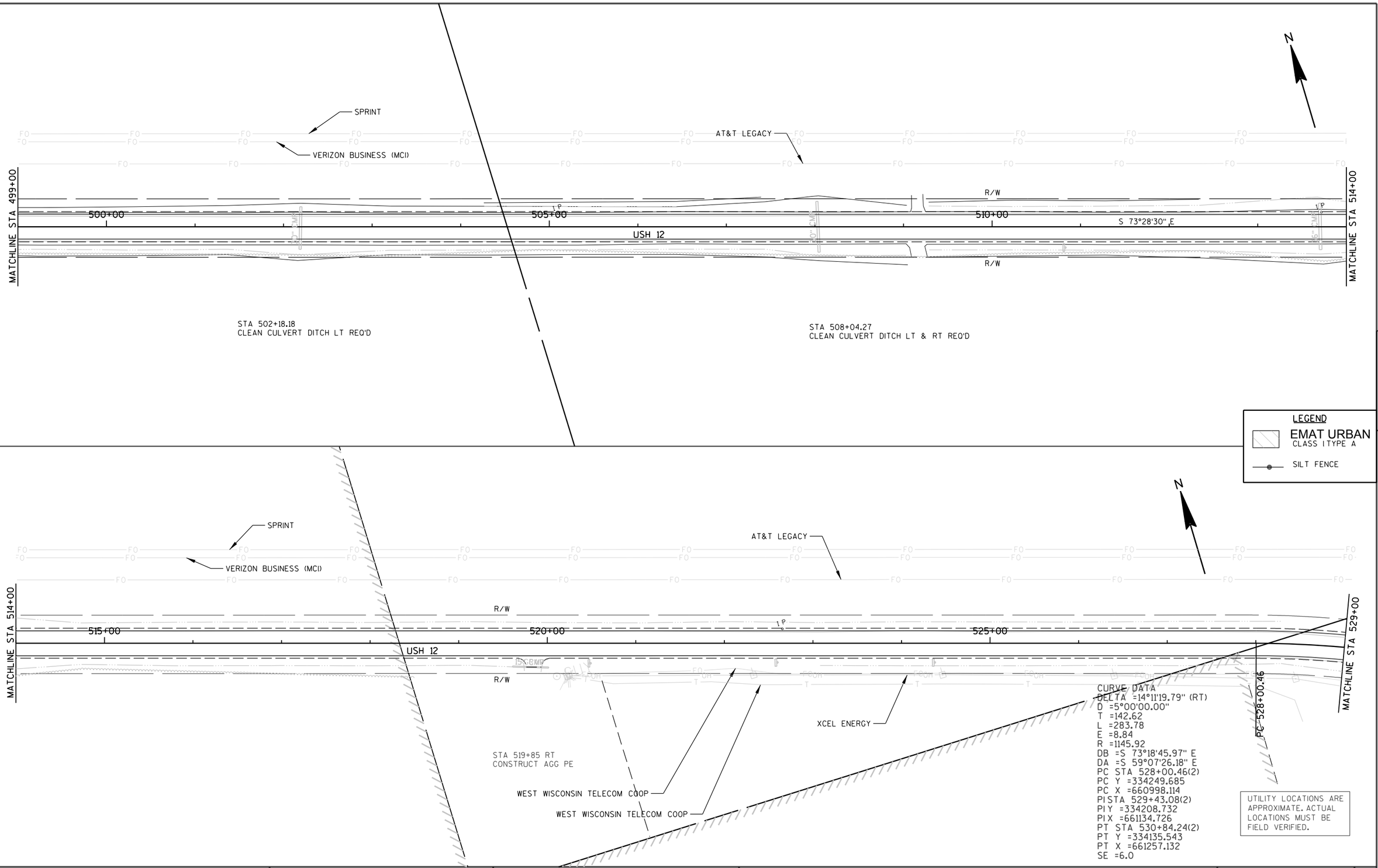
CURVE DATA
DELTA =16°46'09" (RT)
D =3°00'56"
T =280.04
L =556.08
E =20.53
R =1900.00
DB =N 89°43'59" E
DA =S 73°29'52" E
PC STA 20+45.19
PC Y =335276.182
PC X =657253.302
PI STA 23+25.24
PI Y =335277.487
PI X =657533.342
PT STA 26+01.27
PT Y =335197.940
PT X =657801.850
SE = 5.0

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST. CROIX	PLAN	SHEET 78	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\PPUSH1201.dgn PLOT TIME : 12:47:02 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 44



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST. CROIX	PLAN	SHEET 79	E

CENTURYLINK

STA 529+83.74
CLEANING CULVERT PIPE REO'D

310TH ST

SPRINT

VERIZON BUSINESS (MCI)

AT&T LEGACY

WEST WISCONSIN TELECOM COOP

STA 532+46.16 USH 12
MATCH EXISTING MODIFIED TYPE C INTERSECTION

PI 529+43.08

WEST WISCONSIN TELECOM COOP

MATCHLINE STA 529+00

530+00

CAUTION

535+00

S 59°02'48" E

540+00

S 60°22'05" E

MATCHLINE STA 544+00

USH 12

R/W

PT 530+84.24

CURVE DATA
DELTA =14°11'20" (RT)
D =5°00'00"
T =142.62
L =283.78
E =8.84
R =1145.92
DB =S 73°18'46" E
DA =S 59°07'26" E
PC STA 528+00.46(2)
PC Y =334249.685
PC X =660998.114
PI STA 529+43.08(2)
PI Y =334208.732
PI X =661134.726
PT STA 530+84.24(2)
PT Y =334135.543
PT X =661257.132
SE = 6.0

XCEL ENERGY

BALDWIN TELECOM

STA 532+49.45 USH 12
MATCH EXISTING MODIFIED TYPE C INTERSECTION

VILLAGE OF WILSON WATER

PI 542+94.49

WE ENERGIES

WILSON RD

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

N

LEGEND
EMAT URBAN
CLASS I TYPE A
SILT FENCE

STA 544+97 LT
CONSTRUCT AGG PE

STA 546+02 LT
CONSTRUCT AGG PE

PC 544+71.63

CLEARING AND GRUBBING
(OUTSIDE OF ROW WITH APPROVAL OF OWNER)

CONCRETE CURB AND GUTTER 6" SLOPED, 36" TYPE D

STA 548+90 LT
CONSTRUCT AGG PE

PT 549+17.64

WEST WISCONSIN TELECOM COOP

STA 555+02.51
CLEAN CULVERT DITCH LT REO'D

PI 555+72.56

PC 558+17.94

MATCHLINE STA 544+00

545+00

V80
1131.17

550+00

S 75°10'56" E

S 75°53'20" E

555+00

S 75°53'20" E

MATCHLINE STA 559+00

USH 12

R/W

VILLAGE OF WILSON WATER

XCEL ENERGY

PI 546+95.88

PI 550+27.94

BALDWIN TELECOM

WEST WISCONSIN TELECOM COOP

CURVE DATA
DELTA =14°48'51" (LT)
D =3°19'17"
T =224.26
L =446.01
E =14.52
R =1725.00
DB =S 60°22'05" E
DA =S 75°10'56" E
PC STA 544+71.63(2)
PC Y =333425.480
PC X =662448.998
PI STA 546+95.88(2)
PI Y =333314.603
PI X =662643.925
PT STA 549+17.64(2)
PT Y =333257.251
PT X =662860.723
SE = 5.2

CURVE DATA
DELTA =35°16'44.26" (LT)
D =1°54'00.00"
T =958.88
L =1856.79
E =148.78
R =3015.57
DB =S 75°53'19.71" E
DA =N 68°49'56.04" E
PC STA 558+17.94(2)
PC Y =333036.436
PC X =663733.519
PI STA 567+76.82(2)
PI Y =332802.656
PI X =664663.466
PT STA 576+74.73(2)
PT Y =333148.908
PT X =665557.649
SE = 3.8

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST. CROIX	PLAN	SHEET 80	E

CURVE DATA
DELTA =35°16'44" (LT)
D =1°54'00"
T =958.88
L =1856.79
E =148.78
R =3015.57
DB =S 75°53'20" E
DA =N 68°49'56" E
PC STA 558+17.94(2)
PC Y =333036.436
PC X =663733.519
PI STA 567+76.82(2)
PI Y =332802.656
PI X =664663.466
PT STA 576+74.73(2)
PT Y =333148.908
PT X =665557.649
SE = 3.8

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

N

STA 562+39.03
CLEAN CULVERT DITCH LT & RT REQ'D

STA 559+67 LT
CONSTRUCT AGG PE

WEST WISCONSIN TELECOM COOP

END TAPER
STA 560+72

MATCHLINE STA 559+00

560+00

END TRUCK LANE
BEGIN TAPER STA 566+48

R/W

565+00

570+00

IP

IP

MATCHLINE STA 574+00

USH 12

STA 561+38.81 USH 12
MATCH EXISTING MODIFIED TYPE C INTERSECTION

315TH ST

R/W

WEST WISCONSIN TELECOM COOP

BALDWIN TELECOM

WEST WISCONSIN TELECOM COOP

XCEL ENERGY

STA 380+87 RT
CONSTRUCT AGG PE

WEST WISCONSIN TELECOM COOP

PI 567+76.82

5

5

LEGEND

EMAT URBAN
CLASS ITYPE A

SILT FENCE

PI 584+01.91

STA 585+78 LT
CONSTRUCT AGG PE

STA 585+09.96 26.0'LT

STA 585+57.97 28.0'LT

STA 585+97.65 28.0'LT

STA 586+47.65 26.0'LT

N

STA 576+47.25
INSTALL MARKER CULVERT END LT & RT REQ'D

STA 576+68.77
CLEANING CULVERT PIPE REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D

STA 576+54.88 27.1'LT

STA 576+04.47 28.0'LT

PT 576+54.88

STA 575+81.40 26.38'LT

MATCHLINE STA 574+00

575+00

N 68°49'56" E

580+00

USH 12

PC 581+58.65

585+00

IP

IP

R/W

R/W

PT 586+24.77

MATCHLINE STA 589+00

STA 577+77 RT
CONSTRUCT AGG PE

WEST WISCONSIN TELECOM COOP

BALDWIN TELECOM

CURVE DATA
DELTA =40°27'52" (RT)
D =8°40'52"
T =243.25
L =466.12
E =43.40
R =660.00
DB =N 68°49'56" E
DA =S 70°42'12" E
PC STA 581+58.65(2)
PC Y =333323.653
PC X =666008.921
PI STA 584+01.91(2)
PI Y =333411.492
PI X =666235.762
PT STA 586+24.77(2)
PT Y =333331.106
PT X =666465.351
SE = 6.0

MGS GUARDRAIL TERMINAL EAT REQ'D
STA 576+04.47 TO STA 576+58.03 LT
STA 585+06.95 TO STA 585+57.97 LT
STA 585+97.65 TO STA 586+50.77 LT

MGS GUARDRAIL 3 REQ'D
STA 576+58.03 TO STA 585+06.95 LT
STA 586+50.77 TO STA 593+38.27 LT

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST. CROIX	PLAN	SHEET 81	E

STA 594+07.15
CLEANING CULVERT PIPE REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D

MGS GUARDRAIL TERMINAL EAT REQ'D
STA 593+38.27 TO STA 593+91.36 LT
STA 594+21.36 TO STA 594+74.44 LT

MGS GUARDRAIL 3 REQ'D
STA 594+74.44 TO STA 604+15.27

WEST WISCONSIN TELECOM COOP

STA 593+91.36 28.0'LT
STA 593+41.40 26.0'LT
STA 594+21.36 28.0'LT
STA 594+71.32 26.0'LT

BEGIN TRUCK LANE
END TAPER STA 598+11

R/W

MATCHLINE STA 589+00

590+00

S 70°42'12" E

595+00

USH 12

PC 599+87.00

600+00

BEGIN TAPER
STA 601+59

CURVE DATA
DELTA =49°23'03.29" (LT)
D =7°32'20.11"
T =349.43
L =655.06
E =76.48
R =760.00
DB =S 44°33'01.86" E
DA =N 86°03'54.85" E
PC STA 603+82.02(2)
PC Y =332595.034
PC X =668032.509
PI STA 607+31.45(2)
PI Y =332346.016
PI X =668277.650
PT STA 610+37.08(2)
PT Y =332369.994
PT X =668626.261

PROPOSE R/W (TYP)

BALDWIN TELECOM

WEST WISCONSIN TELECOM COOP

XCEL ENERGY

WEST WISCONSIN TELECOM COOP

R/W

PC 598+09.56

CURVE DATA
DELTA =26°09'09.97" (RT)
D =7°30'00.00"
T =177.44
L =348.70
E =20.34
R =763.94
DB =S 70°42'11.84" E
DA =S 44°33'01.86" E
PC STA 598+09.56(2)
PC Y =332939.581
PC X =667583.576
PI STA 599+87.00(2)
PI Y =332880.943
PI X =667751.050
PT STA 601+58.26(2)
PT Y =332754.492
PT X =667875.534
SE = 6.0

PT 601+58.26

S 44°33'02" E

PC 603+82.02

MATCHLINE STA 604+00

5

5

LEGEND

EMAT URBAN
CLASS I TYPE A

SILT FENCE

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

CURVE DATA
DELTA =49°23'03.29" (LT)
D =7°32'20.11"
T =349.43
L =655.06
E =76.48
R =760.00
DB =S 44°33'01.86" E
DA =N 86°03'54.85" E
PC STA 603+82.02(2)
PC Y =332595.034
PC X =668032.509
PI STA 607+31.45(2)
PI Y =332346.016
PI X =668277.650
PT STA 610+37.08(2)
PT Y =332369.994
PT X =668626.261
SE =6.0

STA 611+98.12 USH 12
MATCH EXISTING MODIFIED TYPE C INTERSECTION

SLOPE INTERCEPTS (TYP)

STA 604+18.46 17.0'LT
STA 604+69.64 19.0'LT
STA 605+26.52 14.0'LT

MATCHLINE STA 604+00

605+00

BALDWIN TELECOM

XCEL ENERGY

PROPOSE R/W (TYP)

PT 610+37.08

610+00

WILSON CREEK RD

USH 12

N 86°03'55" E

615+00

PC 615+08.14

R/W

STA 618+97 RT
CONSTRUCT AGG PE

STA 618+14 RT
CONSTRUCT AGG PE

XCEL ENERGY

STA 617+70.05
CLEANING CULVERT PIPE REQ'D

MATCHLINE STA 619+00

N

WEST WISCONSIN TELECOM COOP

STA 607+17 RT
CONSTRUCT AGG PE

7+31.45

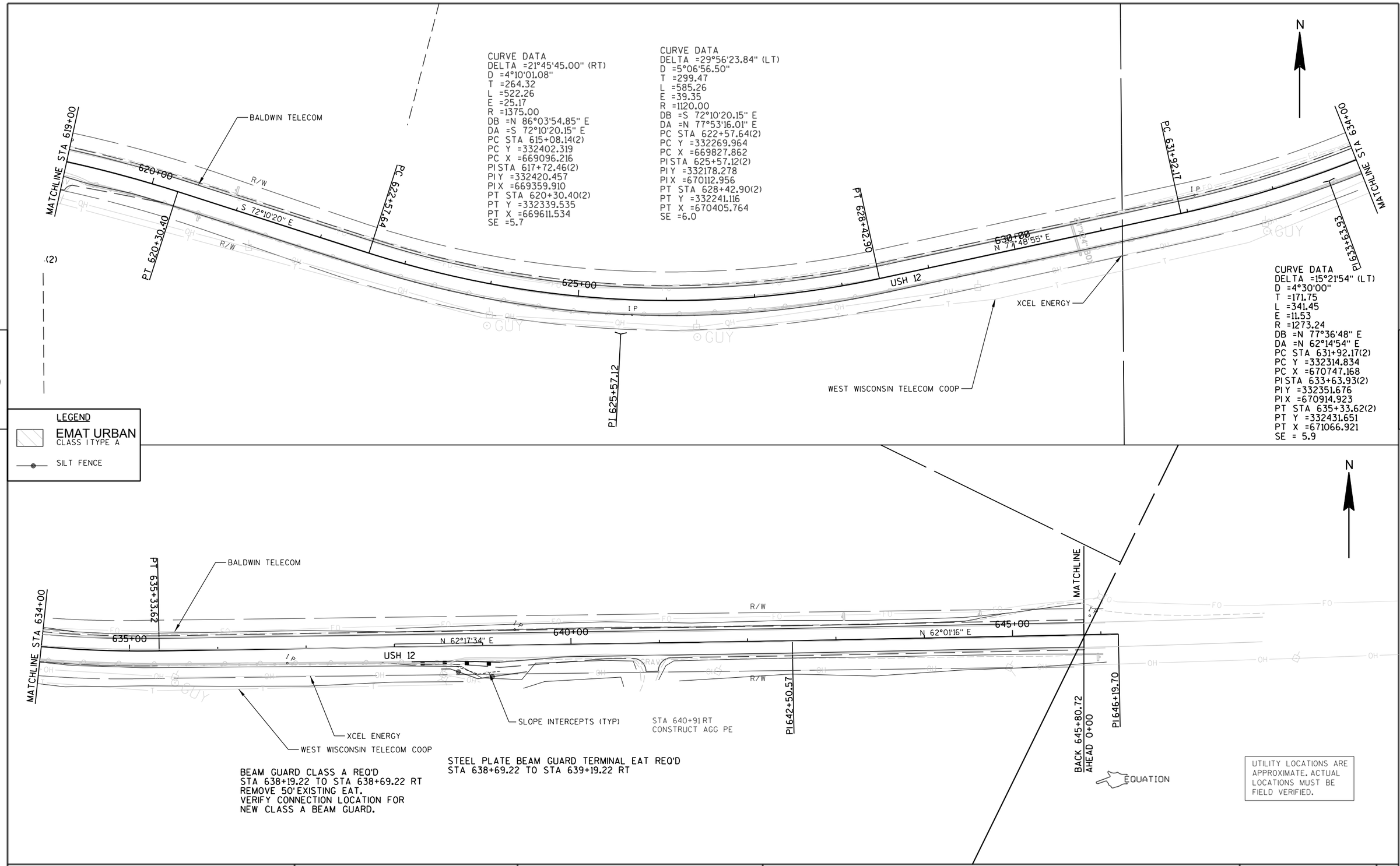
MGS GUARDRAIL 3 REQ'D
STA 610+14.36 TO STA 610+39.96 LT
STA 610+34.30 TO STA 610+59.23 RT
STA 612+03.93 TO STA 612+28.93 RT
STA 613+37.50 TO STA 613+62.50 LT

MGS THRIE BEAM TRANSITION REQ'D
STA 610+39.96 TO STA 610+77.46 LT
STA 610+59.23 TO STA 610+96.73 RT
STA 611+66.43 TO STA 612+03.93 RT
CONNECT TO EXISTING THRIE BEAM ON STRUCTURE. FIELD VERIFY STRUCTURE AND OFFSET.

MGS GUARDRAIL TERMINAL EAT REQ'D
STA 604+15.27 TO 604+69.64 LT
STA 609+59.74 TO STA 610+14.36 LT
STA 609+82.62 TO STA 610+34.30 RT
STA 612+28.93 TO STA 612+81.99 RT
STA 612+84.38 TO STA 613+37.50 LT
STA 613+62.50 TO STA 614+15.63 LT

CURVE DATA
DELTA =21°45'45.00" (RT)
D =4°10'01.08"
T =264.32
L =522.26
E =25.17
R =1375.00
DB =N 86°03'54.85" E
DA =S 72°10'20.15" E
PC STA 615+08.14(2)
PC Y =332402.319
PC X =669096.216
PI STA 617+72.46(2)
PI Y =332420.457
PI X =669359.910
PT STA 620+30.40(2)
PT Y =332339.535
PT X =669611.534
SE =5.7

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST. CROIX	PLAN	SHEET 82	E



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST. CROIX	PLAN	SHEET 83	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\PPUSH1206.dgn PLOT TIME : 12:47:06 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 44

5

5

LEGEND

EMAT URBAN
CLASS I TYPE A

SILT FENCE

SPRINT

VERIZON BUSINESS (MCI)

UNION PACIFIC RAILROAD

BALDWIN TELECOM

AT&T LEGACY

XCEL ENERGY

CENTURYLINK

R/W

USH 12

N 62°52'49" E

N 61°39'15" E

-5+00

0+00

10+00

15+00

PI 9+24.63

PC -2+15.99

MATCHLINE

PT 3+18.95

PI 4+26.52

MATCHLINE STA 5+00

BACK 645+82.09
AHEAD 0+00.00

PI 0+51.49

EQUATION

CURVE DATA
DELTA =1°13'34" (LT)
D =0°13'45"
T =267.48
L =534.94
E =1.43
R =25000.00
DB =N 62°52'49" E
DA =N 61°39'15" E
PC STA -2+15.99
PC Y =196816.212
PC X =107484.682
PI STA 0+51.49
PI Y =196938.143
PI X =107722.753
PT STA 3+18.95
PT Y =197065.140
PT X =107958.161
SE = NC

MATCHLINE STA 5+00

MATCHLINE STA 20+00

STA 5+36 RT
CONSTRUCT ASPH PE

SLOPE INTERCEPTS (TYP)

PROPOSED R/W (TYP)

STA 17+08.37
CLEAN CULVERT DITCH LT & RT REQ'D

PI 19+15.04

PC 16+17.57

MGS LONG SPAN GUARDRAIL 3 REQ'D
STA 9+69.34 TO STA 10+81.84 RT
STA 9+75.59TO STA 10+88.09 LT
VERIFY OFFSET IN FIELD IN ORDER FOR BEAM GUARD TO BE INSTALLED ADJACENT TO THE FACE OF THE EXISTING CONCRETE RAILING ON THE EXISTING STRUCTURE.

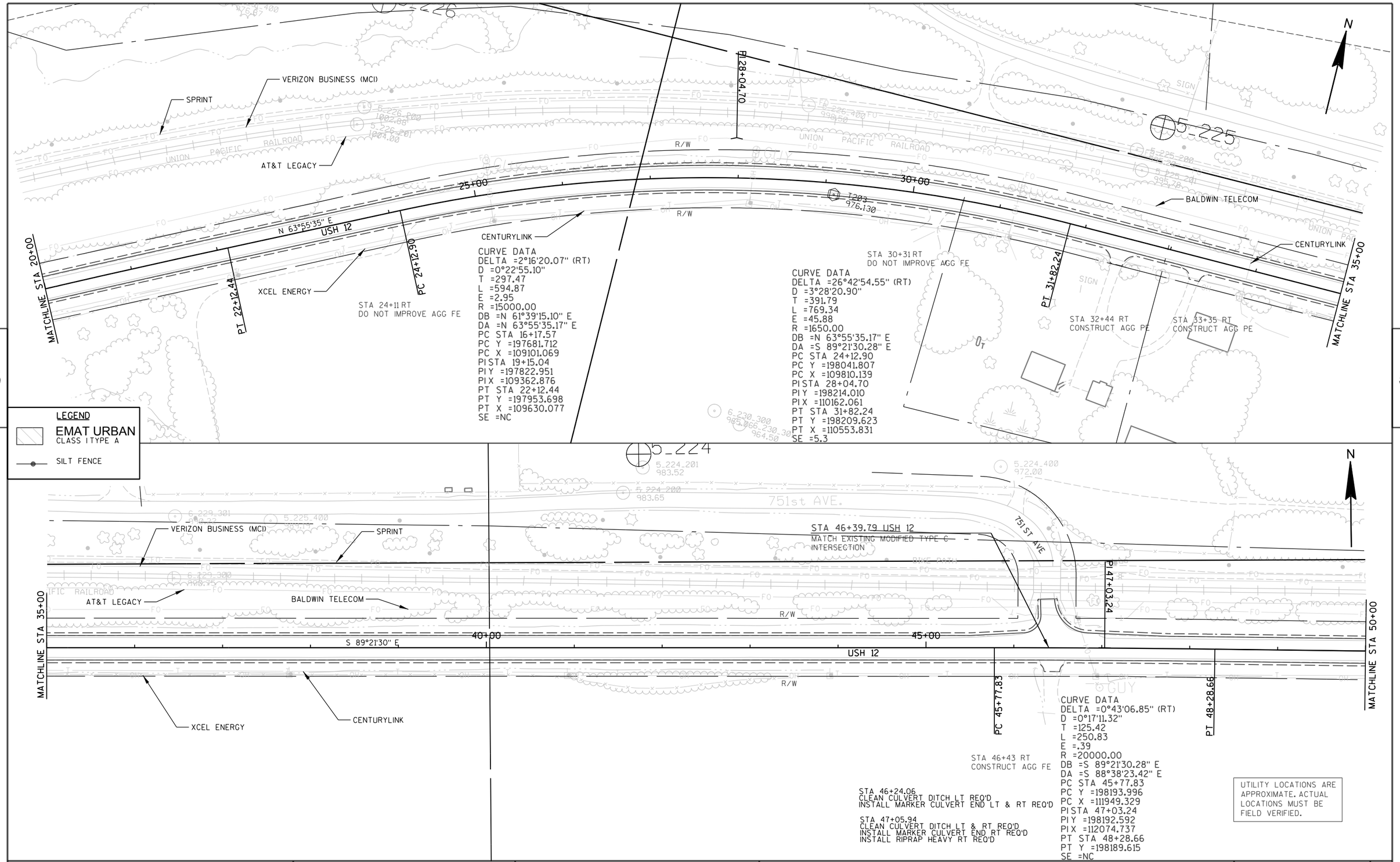
MGS GUARDRAIL TERMINAL EAT REQ'D
STA 9+09.97 TO STA 9+63.09 RT
STA 9+16.22 TO STA 9+69.34 LT
STA 10+88.09 TO STA 11+41.22 RT
STA 10+94.34 TO STA 11+47.47 LT

MGS GUARDRAIL 3 REQ'D
STA 9+63.09 TO STA 9+75.59 RT
STA 10+81.84 TO STA 10+94.34 LT

CURVE DATA
DELTA =2°16'20.07" (RT)
D =0°22'55.10"
T =297.47
L =594.87
E =2.95
R =15000.00
DB =N 61°39'15.10" E
DA =N 63°55'35.17" E
PC STA 16+17.57
PC Y =197681.712
PC X =109101.069
PI STA 19+15.04
PI Y =197822.951
PI X =109362.876
PT STA 22+12.44
PT Y =197953.698
PT X =109630.077
SE =NC

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

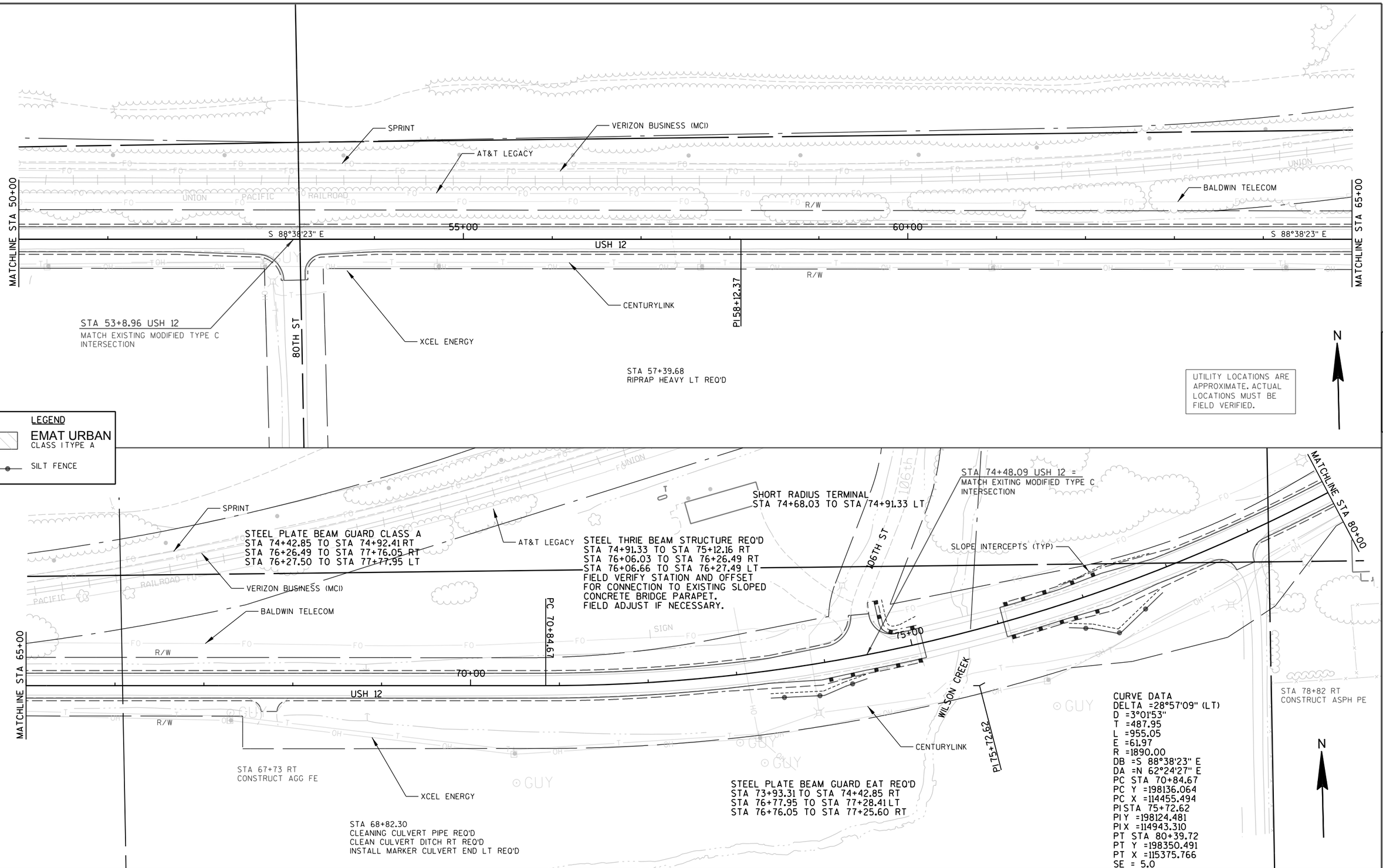
PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 84	E



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 85	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\PPUSH1208.dgn PLOT TIME : 12:47:11 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

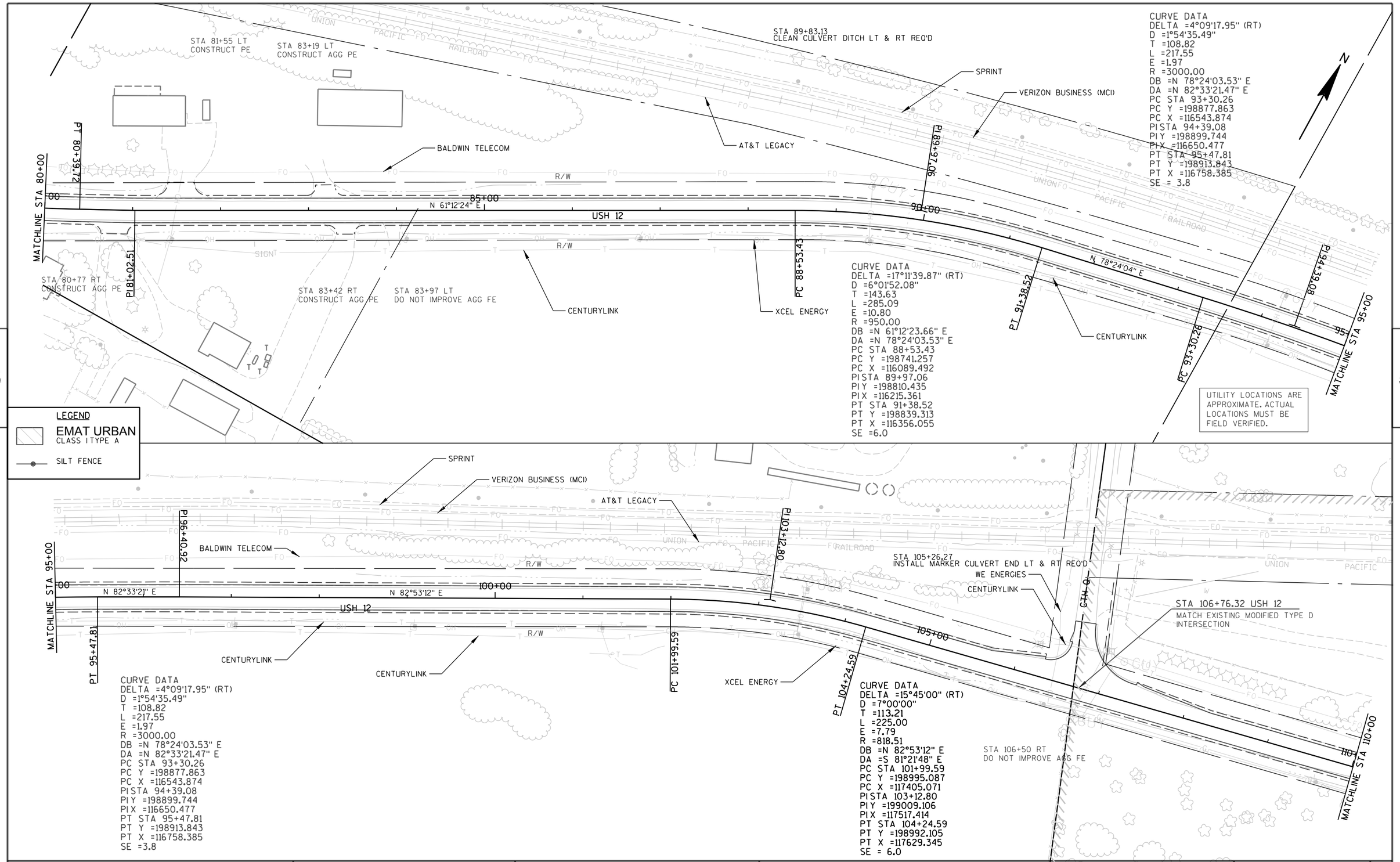
WISDOT/CADDS SHEET 44



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 86	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\PPUSH1209.dgn PLOT TIME : 12:47:12 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 44



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 87	E

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

SPRINT

AT&T LEGACY

VERIZON BUSINESS (MCI)

STA 112+90.20
CLEANING CULVERT PIPE REQ'D
CLEAN CULVERT DITCH RT REQ'D
REGRADE DITCH LT REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D

STA 117+99.15
REGRADE DITCH LT REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D

STA 120+90.20
REGRADE DITCH LT & RT REQ'D
INSTALL MARKER CULVERT END RT REQ'D

CURVE DATA
DELTA =26°07'29.02" (LT)
D =6°51'42.37"
T =193.73
L =380.73
E =22.18
R =835.00
DB =S 81°08'30.45" E
DA =N 72°44'00.52" E
PC STA 119+75.58
PC Y =198759.195
PC X =119162.751
PI STA 121+69.31
PI Y =198729.362
PI X =119354.173
PT STA 123+56.31
PT Y =198786.865
PT X =119539.175
SE =6.0

FRONTAGE RD

MATCHLINE STA 125+00

N 72°44'01" E

PT 123+56.31

CENTURYLINK

VILLAGE OF KNAPP

BALDWIN TELECOM

WINDSTREAM KDL

CENTURYLINK

STA 116+75 LT
CONSTRUCT AGG PE

XCEL ENERGY

PC 119+75.58

WE ENERGIES

MATCHLINE STA 110+00

S 81°21'48" E

115+00

120+00

R/W

USH 12

WE ENERGIES

STA 113+31.67 USH 12
MATCH EXISTING MODIFIED TYPE C
INTERSECTION

2ND ST

XCEL ENERGY

STA 115+22 RT
CONSTRUCT AGG PE

STA 119+16 RT
DO NOT IMPROVE
AGG PE

STA 120+49.77 USH 12
MATCH EXISTING MODIFIED TYPE C
INTERSECTION

A ST

QUEEN ST

STA 124+35 RT
CONSTRUCT AGG PE

STA 121+76 RT
CONSTRUCT AGG PE

PI 121+69.31

STA 123+57.14 USH 12
MATCH EXISTING MODIDIED TYPE C
INTERSECTION

CENTRAL ST

N

5

5

LEGEND

EMAT URBAN
CLASS I TYPE A

SILT FENCE

G.P.

STA 132+98.50
1-18"X58' CPRC CLASS IV 10° SKEW (LHF) REQ'D

STA 133+01.50
EXIST 18"X36"X45' CONCRETE BOX CULVERT
TO BE REMOVED
1-18"X58' CPRC CLASS IV 10° SKEW (LHF) REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D
INLET EL: 920.0
OUTLET EL: 919.5

STA 137+71.92
EXIST 30"X40"X48' CPCS ELLIPTICAL
TO BE REMOVED
1-29"X45"X54' CPRC HORIZONTAL ELLIPTICAL CLASS HE-IV REQ'D
2-AEW FOR CPRC HORIZONTAL ELLIPTICAL 29"X45" REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D
INLET EL: 916.0
OUTLETEL: 915.5

VERIZON BUSINESS (MCI)

SPRINT

UNION PACIFIC

AT&T LEGACY

STA 127+11.30 USH 12
MATCH EXISTING MODIFIED TYPE C
INTERSECTION

STA 129+00 - 132+00 LT
DO NOT IMPROVE AGG PE

XCEL ENERGY

WINDSTREAM KDL

PI 125+92.86

STA 128+47 LT
CONSTRUCT ASPH PE

STA 133+41 LT
CONSTRUCT AGG PE

STA 138+12 LT
CONSTRUCT AGG PE

PI 136+90.12

CENTURYLINK

CENTURYLINK

WE ENERGIES

KING ST

CENTURYLINK

WE ENERGIES

BALDWIN TELECOM

PROPOSED R/W (TYP)

R/W

MATCHLINE STA 125+00

130+00

N 73°02'56" E

135+00

N 73°28'46" E

MATCHLINE STA 140+00

USH 12

SIGN

R/W

SIGN

CANOPY

STA 126+67.29
CLEANING CULVERT PIPE REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D

G.P. G.P. G.P.

OAK ST

CURVE DATA
DELTA =8°18'59.47" (RT)
D =4°24'26.52"
T =94.51
L =188.70
E =3.43
R =1300.00
DB =N 73°28'59.32" E
DA =N 81°47'58.78" E
PC STA 139+15.82
PC Y =199241.170
PC X =121031.040
PI STA 140+10.34
PI Y =199268.040
PI X =121121.654
PT STA 141+04.52
PT Y =199281.521
PT X =121215.202
SE =5.8

VILLAGE OF KNAPP

PC 139+15.82

BALDWIN TELECOM

CENTURYLINK

STA 127+15.04 USH 12
MATCH EXISTING MODIFIED TYPE C
INTERSECTION

STA 133+31.59 USH 12
MATCH EXISTING MODIFIED TYPE C
INTERSECTION

STA 134+35 RT
CONSTRUCT AGG PE

KIMBALL ST

STA 137+22.99 USH 12
MATCH EXISTING MODIFIED TYPE C
INTERSECTION

STA 139+00 RT
DO NOT IMPROVE
AGG PE

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 88	E

CURVE DATA
DELTA =8°18'59.47" (RT)
D =4°24'26.52"
T =94.51
L =188.70
E =3.43
R =1300.00
DB =N 73°28'59.32" E
DA =N 81°47'58.78" E
PC STA 139+15.82
PC Y =199241.170
PC X =121031.040
PISTA 140+10.34
PIY =199268.040
PIX =121121.654
PT STA 141+04.52
PT Y =199281.521
PT X =121215.202
SE =5.8

STA 140+25 LT
CONSTRUCT ASPH PE

SPRINT
VERIZON BUSINESS (MCI)
RAILROAD
UNION PACIFIC RAILROAD
AT&T LEGACY
STA 144+79 LT
DO NOT IMPROVE AGG PE
STA 151+76.78
CLEANING CULVERT DITCH RT REO'D
INSTALL MARKER CULVERT END LT & RT REO'D
N
STA 153+17.16 USH 12
MATCH EXISTING MODIFIED TYPE D
INTERSECTION
CENTURYLINK
CENTURYLINK
STA 153+80 LT
DO NOT IMPROVE
AGG PE
WE ENERGIES
R/W
PI 140+10.34
PI 152+92.35
MATCHLINE STA 140+00
MATCHLINE STA 155+00
145+00
150+00
N 81°47'59" E
N 81°43'55" E
USH 12
PT 141+04.52
PARK ST
STA 141+19.57 USH 12
MATCH EXISTING MODIFIED TYPE C
INTERSECTION
XCEL ENERGY
PI 146+83.77
BALDWIN TELECOM
R/W
CURVE DATA
DELTA =6°47'26.69" (RT)
D =3°49'10.99"
T =88.99
L =177.78
E =2.64
R =1500.00
DB =N 81°43'54.70" E
DA =N 88°31'21.40" E
PC STA 152+03.36
PC Y =199438.861
PC X =122302.714
PISTA 152+92.35
PIY =199451.659
PIX =122390.784
PT STA 153+81.14
PT Y =199453.954
PT X =122479.749
SE =5.6
PC 152+03.36
PT 153+81.14
CHURCH ST
VILLAGE OF KNAPP
SIGN

LEGEND
EMAT URBAN
CLASS I TYPE A
SILT FENCE

SPRINT
VERIZON BUSINESS (MCI)
RAILROAD
UNION PACIFIC RAILROAD
STA 158+74 LT
DO NOT IMPROVE
AGG PE
3RD AVE
POOL
AT&T LEGACY
STA 161+77 LT
CONSTRUCT AGG PE
STA 163+27 LT
CONSTRUCT AGG PE
CANOPY
STA 165+XX LT
SO NOT IMPROVE
AGG PE
STA 166+06 LT
CONSTRUCT AGG PE
STA 168+20 LT
CONSTRUCT ASPH PE
STA 159+61.00 USH 12
MATCH EXISTING MODIFIED TYPE C
INTERSECTION
CENTURYLINK
CENTURYLINK
WE ENERGIES
XCEL ENERGY
R/W
MATCHLINE STA 155+00
MATCHLINE STA 170+00
160+00
165+00
N 88°32'08" E
USH 12
R/W
SIGN
VILLAGE OF KNAPP
BALDWIN TELECOM
STA 159+45.12
CLEANING CULVERT PIPE REO'D
INSTALL MARKER CULVERT END LT & RT REO'D
XCEL ENERGY
STA 159+69.86 USH 12
MATCH EXISTING MODIFIED TYPE C
INTERSECTION
STA 155+50 RT
CONSTRUCT AGG PE
STA 156+97 RT
CONSTRUCT AGG PE
3RD AVE
2ND AVE
STA 165+62.34
CLEANING CULVERT PIPE REO'D
INSTALL MARKER CULVERT END LT & RT REO'D
STA 164+28 RT
CONSTRUCT AGG PE
STA 164+27.56 USH 12
MATCH EXISTING MODIFIED TYPE C
INTERSECTION
1ST AVE
STA 166+00.78 USH 12
MATCH EXISTING MODIFIED TYPE C
INTERSECTION
N
A/C
A/C

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 89	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\PPUSH1212.dgn PLOT TIME : 12:47:15 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 44

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

N

STA 172+50.72
CLEANING CULVERT PIPE REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D

STA 173+09.02
CLEANING CULVERT PIPE REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D

STA 170+41 LT
CONSTRUCT AGG PE

STA 172+79.14 USH 12
MATCH EXISTING MODIFIED TYPE C INTERSECTION

STA 177+75 LT
CONSTRUCT ASPH PE

STA 178+74 LT
CONSTRUCT ASPH PE

1ST ST

XCEL ENERGY

WE ENERGIES

XCEL ENERGY

SIGN

R/W

MATCHLINE STA 170+00

175+00

180+00

USH 12

N 88°24'38" E

MATCHLINE STA 185+00

BALDWIN TELECOM

VILLAGE OF KNAPP

1ST ST

XCEL ENERGY

STA 176+21 RT
CONSTRUCT AGG PE

PI 177+21.81

STA 177+79 RT
CONSTRUCT AGG PE

R/W

STA 180+35 RT
CONSTRUCT AGG PE

STA 183+30 RT
CONSTRUCT ASPH PE

STA 176+71 RT
CONSTRUCT ASPH PE

STA 174+98 RT
CONSTRUCT ASPH PE

STA 181+31 RT
CONSTRUCT AGG PE

STA 181+91 RT
CONSTRUCT ASPH PE

5

5

LEGEND

EMAT URBAN
CLASS I TYPE A

SILT FENCE

AT&T LEGACY

VERIZON BUSINESS (MCI)

SPRINT

190TH ST

STA 186+43.77
CLEANING CULVERT DITCH LT & RT REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D

STA 198+76.33 USH 12
MATCH EXISTING MODIFIED TYPE C INTERSECTION

DUNN CO ELEC COOP

CTH O

STA 185+80.06 USH 12
MATCH EXISTING MODIFIED TYPE D INTERSECTION

CENTURYLINK

PI 195+99.99

R/W

MATCHLINE STA 185+00

190+00

195+00

N 88°17'09" E

N 89°17'38" E

USH 12

MATCHLINE STA 200+00

PI 188+76.34

XCEL ENERGY

R/W

VILLAGE OF KNAPP

CURVE DATA
DELTA =35°59'12.99" (RT)
D =6°05'43.06"
T =305.31
L =590.41
E =48.34
R =940.00
DB =N 89°34'47.81" E
DA =S 54°25'59.20" E
PC STA 197+63.78
PC Y =199569.465
PC X =126860.849
PI STA 200+69.09
PI Y =199571.703
PI X =127166.147
PT STA 203+54.19
PT Y =199394.121
PT X =127414.494
SE =6.0

PC 197+63.78

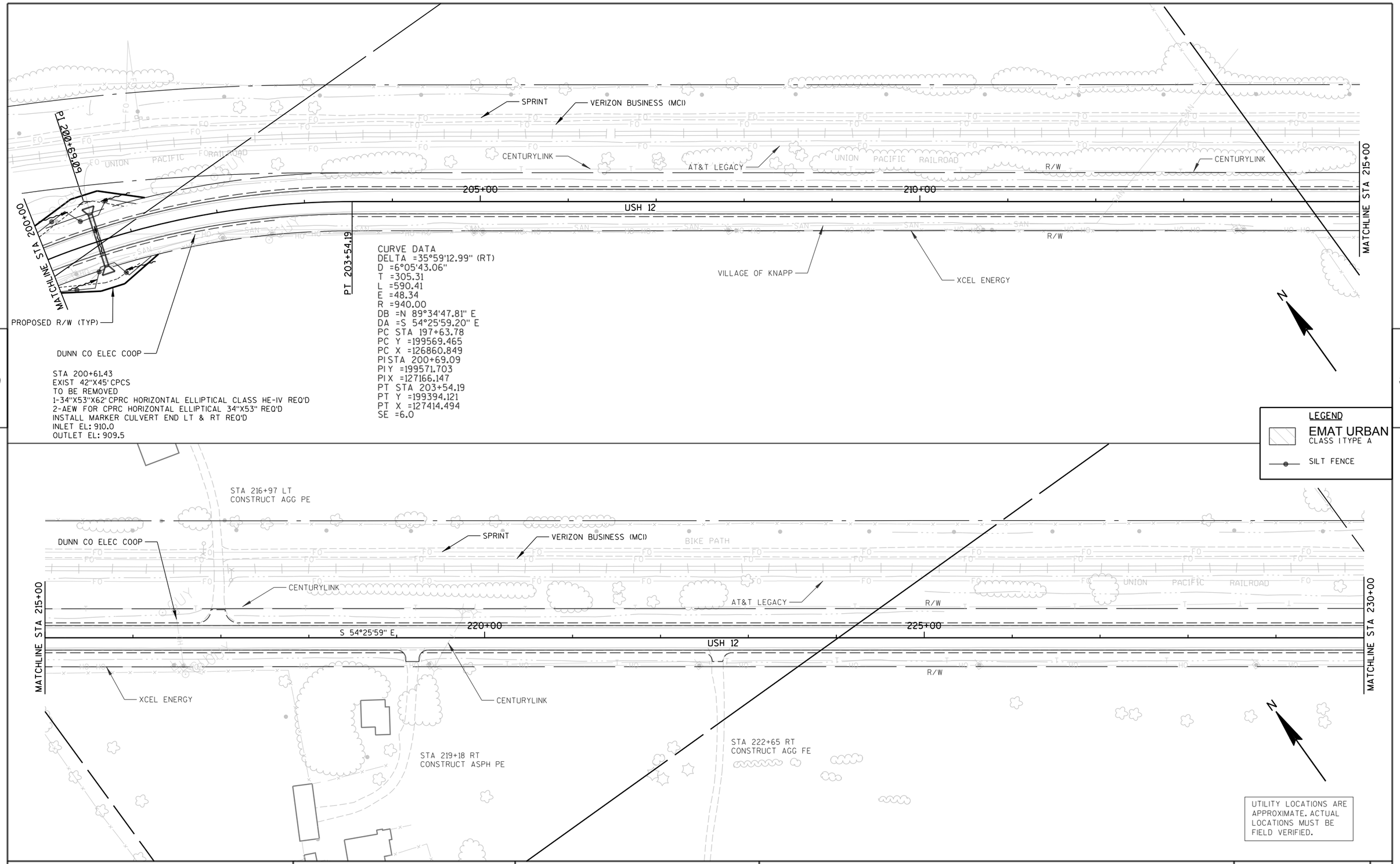
STA 198+68.86 USH 12
MATCH EXISTING MODIFIED TYPE C INTERSECTION

190TH ST

N

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 90	E

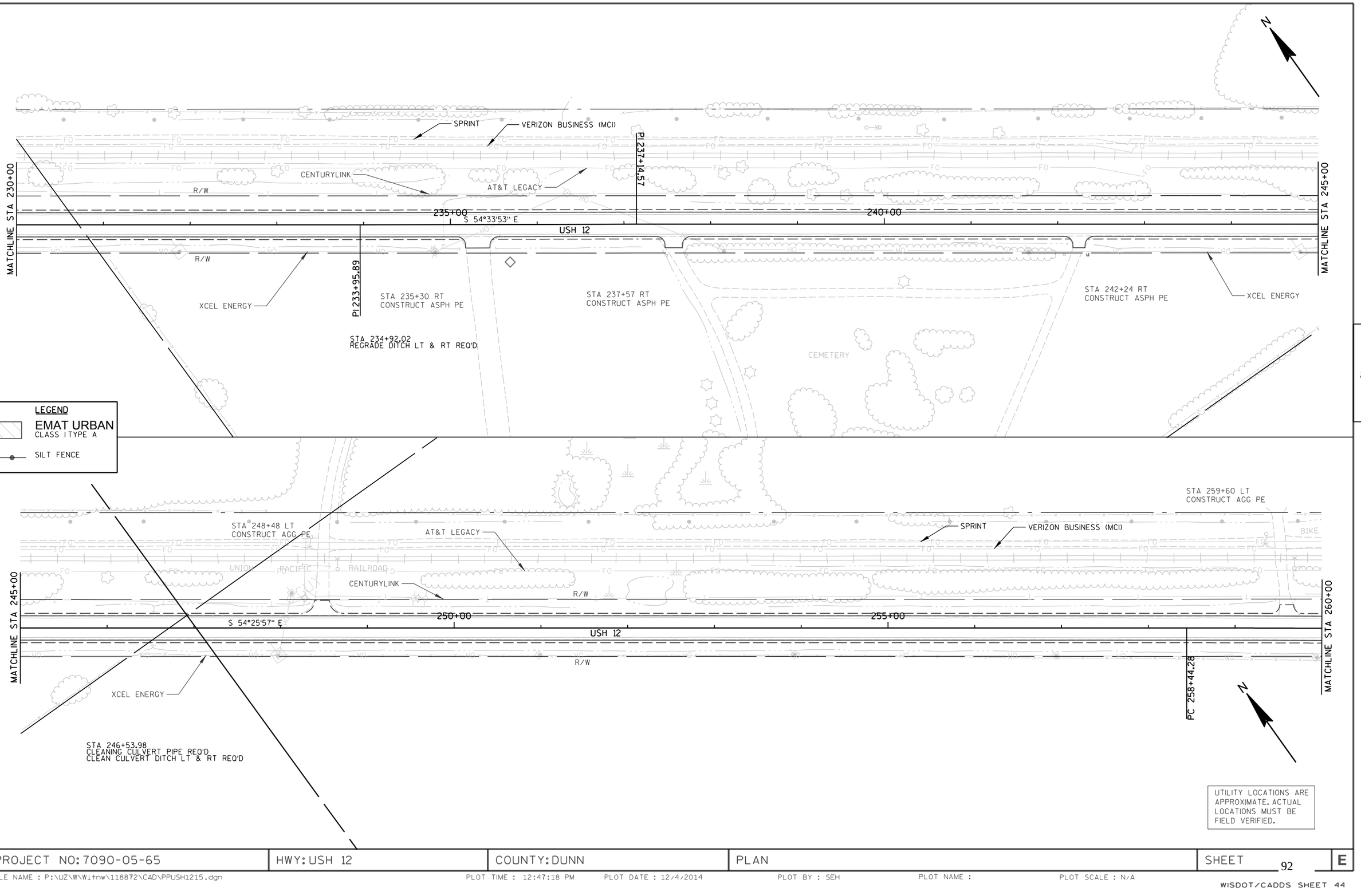
FILE NAME : P:\UZ\W\Witnw\118872\CAD\PPUSH1213.dgn PLOT TIME : 12:47:16 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 91	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\PPUSH1214.dgn PLOT TIME : 12:47:17 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 44



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 92	E

FILE NAME : P:\UZW\Witnw\118872\CAD\PPUSH1215.dgn PLOT TIME : 12:47:18 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

N

STEEL PLATE BEAM GUARD EAT REQ'D
STA 273+96.63 TO STA 274+46.63 LT

SPRINT
VERIZON BUSINESS (MCI)
AT&T LEGACY
CENTURYLINK
PATH
UNION PACIFIC RAILROAD
SIGN
SLOPE INTERCEPTS (TYP)
R/W

PI 260+30.71
PI 267+10.97
MATCHLINE STA 260+00
MATCHLINE STA 275+00
265+00
270+00
S 53°49'06" E
S 53°24'28" E
USH 12

PT 262+17.14
PI 271+19.66

XCEL ENERGY
CENTURYLINK
XCEL ENERGY

STA 268+52.86 USH 12
MATCH EXISTING MODIFIED TYPE C INTERSECTION

STA 262+69.78
REGRADE DITCH LT & RT REQ'D

73IST AVE

STA 274+42 RT
CONSTRUCT ASPH PE

RUINS

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL REQ'D
STA 274+56.33 RT

STEEL PLATE BEAM GUARD SHORT RADIUS REQ'D
STA 274+56.33 TO STA 274+70.58 RT

STEEL PLATE BEAM GUARD CLASS A REQ'D
STA 274+46.63 TO STA 274+96.63 LT
STA 274+70.58 TO STA 275+20.58 RT

5

5

LEGEND

EMAT URBAN
CLASS I TYPE A

SILT FENCE

N

STA 281+36.38
CLEANING CULVERT PIPE REQ'D
CLEAN CULVERT DITCH LT & RT REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D

SPRINT
VERIZON BUSINESS (MCI)
AT&T LEGACY
SIGN
BIKE PATH
UNION PACIFIC RAILROAD
WILSON CREEK
SLOPE INTERCEPTS (TYP)
CENTURYLINK
R/W

STA 280+76.40 USH 12
MATCH EXISTING MODIFIED TYPE C INTERSECTION

PC 287+60.14
MATCHLINE STA 275+00
MATCHLINE STA 290+00
280+00
285+00
S 54°29'26" E
USH 12

XCEL ENERGY

STA 280+98.00 USH 12
MATCH EXISTING MODIFIED TYPE C INTERSECTION

250TH ST

MGS THRIE BEAM REQ'D
STA 275+17.28 TO STA 275+92.27 LT R/W
STA 275+41.22 TO STA 276+16.22 RT
FIELD VERIFY STATION AND OFFSET.

STEEL PLATE BEAM GUARD CLASS A REQ'D
STA 276+12.93 TO STA 278+62.92
STA 276+36.87 TO STA 278+87.87

STEEL PLATE BEAM GUARD EAT REQ'D
STA 278+62.92 TO STA 279+12.92 LT
STA 278+86.87 TO STA 279+36.87 RT

STEEL THRIE BEAM STRUCTURE APPROACH REQ'D
STA 274+96.63 TO STA 275+17.28 LT
STA 275+92.27 TO STA 276+12.92 LT
STA 275+20.58 TO STA 275+41.22 RT
STA 276+16.22 TO STA 276+36.87 RT
FIELD VERIFY STATION AND OFFSET
FOR CONNECTION TO NEW THRIE BEAM
ON EXISTING STRUCTURE.

STA 287+85.00
EXIST CPRC TO BE REMOVED
1-42"X66' CPRC CLASS IV REQ'D
2-AEW FOR CPRC 42" REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D
INLET EL: 872.5
OUTLET EL: 872.0

(EXISTING PIPE AND SIZE UNKNOWN)

CURVE DATA
DELTA =21°10'26.75" (LT)
D =2°57'39.68"
T =361.67
L =715.09
E =33.51
R =1935.00
DB =S 54°29'28.34" E
DA =S 75°39'55.09" E
PC STA 287+60.14
PC Y =194494.869
PC X =134244.995
PI STA 291+21.81
PI Y =194284.799
PI X =134539.406
PT STA 294+75.23
PT Y =194195.254
PT X =134889.818
SE =4.9

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 93	E

STA 297+07.82
REGRADE DITCH LT & RT REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D

MGS GUARDRAIL 3 REQ'D
STA 294+37.78 TO STA 300+12.45 RT

SPRINT
VERIZON BUSINESS (MCI)
CENTURYLINK
AT&T LEGACY
UNION PACIFIC RAILROAD
R/W
USH 12

MATCHLINE STA 290+00
PT 294+75.23
295+00
300+00
MATCHLINE STA 305+00

CURVE DATA
DELTA =21°10'26.75" (LT)
D =2°57'39.68"
T =361.67
L =715.09
E =33.51
R =1935.00
DB =S 54°29'28.34" E
DA =S 75°39'55.09" E
PC STA 287+60.14
PC Y =194494.869
PC X =134244.995
PI STA 291+21.81
PI Y =194284.799
PI X =134539.406
PT STA 294+75.23
PT Y =194195.254
PT X =134889.818
SE =4.9
PI 291+21.81

SLOPE INTERCEPTS (TYP)
PROPOSED R/W (TYP)

MGS GUARDRAIL TERMINAL EAT REQ'D
STA 293+85.11 TO STA 294+37.78 RT
STA 300+12.45 TO STA 300+65.57 RT

STA 304+75.70
CLEANING CULVERT PIPE REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D

STA 302+14 RT
CONSTRUCT AGG PE

STA 314+54.62 USH 12
MATCH EXISTING MODIFIED TYPE C
INTERSECTION

CEMETERY

STA 310+48.19
CLEANING CULVERT PIPE REQ'D

SPRINT
VERIZON BUSINESS (MCI)
UNION PACIFIC RAILROAD
CENTURYLINK
AT&T LEGACY
R/W
USH 12
27IST ST
310+00
315+00
S 75°39'55" E
MATCHLINE STA 305+00
MATCHLINE STA 320+00
T SIGN

PROPOSED R/W (TYP)
SLOPE INTERCEPTS (TYP)

MGS GUARDRAIL 3 REQ'D
STA 309+93.40 TO STA 311+18.41 LT
STA 310+36.33 TO STA 311+61.33 RT

MGS GUARDRAIL TERMINAL EAT REQ'D
STA 309+40.28 TO STA 309+93.40 LT
STA 309+83.21 TO STA 310+36.33 RT
STA 311+18.41 TO STA 311+71.53 LT
STA 311+61.33 TO STA 312+14.46 RT

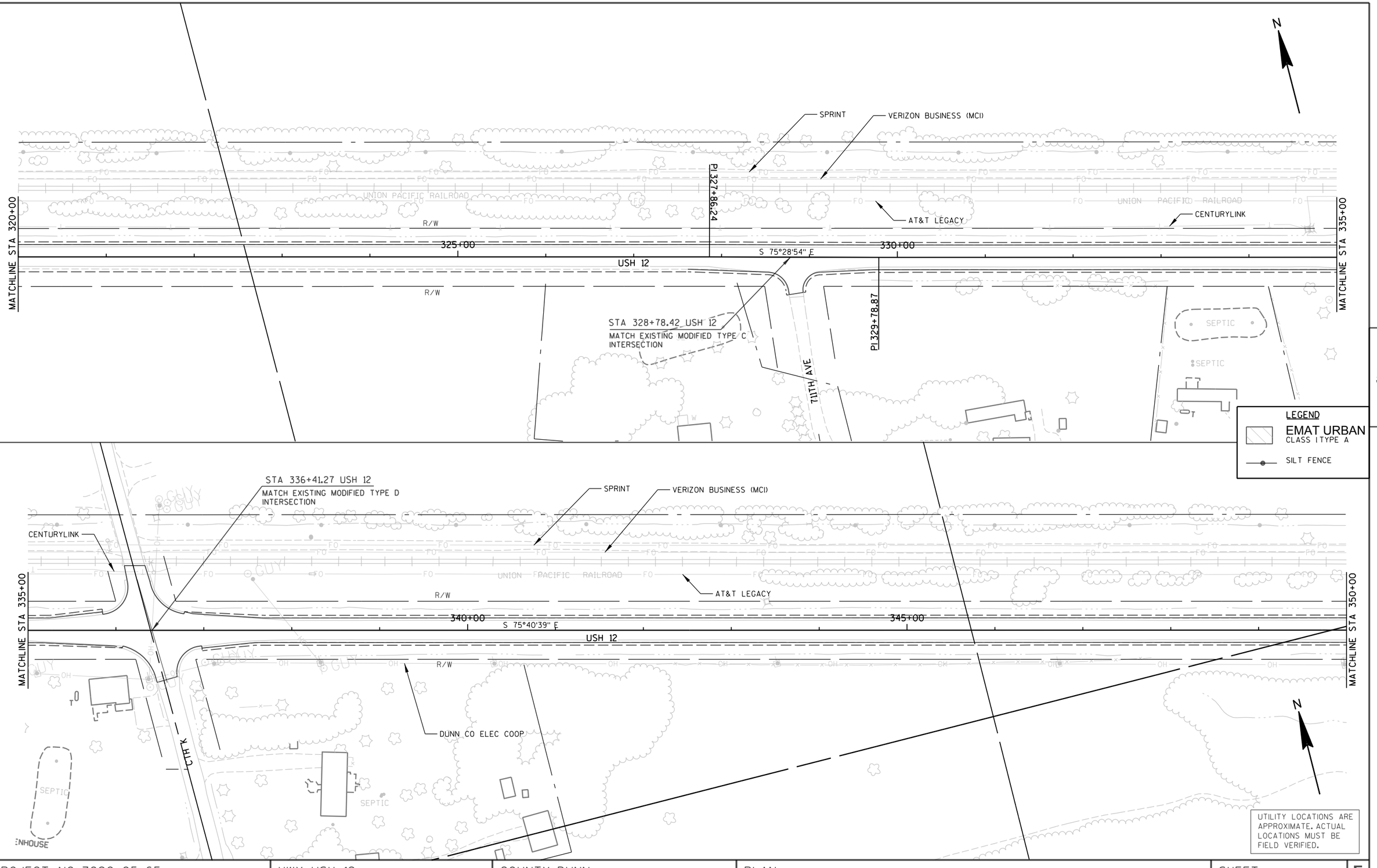
LEGEND
EMAT URBAN
CLASS I TYPE A
SILT FENCE

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 94	E

FILE NAME : P:\UZ\W\Wifnw\118872\CAD\PPUSH1217.dgn PLOT TIME : 12:47:20 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 44



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 95	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\PPUSH1218.dgn PLOT TIME : 12:47:21 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

CURVE DATA
DELTA =20°27'46.83" (RT)
D =2°30'46.70"
T =411.53
L =814.29
E =36.84
R =2280.00
DB =S 75°40'26.57" E
DA =S 55°12'39.74" E
PC STA 351+81.43
PC Y =192782.337
PC X =140418.324
PISTA 355+92.96
PIY =192680.508
PIX =140817.058
PT STA 359+95.73
PT Y =192445.707
PT X =141155.031
SE =4.5

STA 353+75.05
REGRADE DITCH LT & RT REQ'D
INSTALL MARKER CULVERT END RT REQ'D

PI 355+92.96

SPRINT

VERIZON BUSINESS (MCI)

AT&T LEGACY

BIKE PATH

UNION PACIFIC RAILROAD

355+00

360+00

USH 12

R/W

PT 359+95.73

STA 362+72 LT
CONSTRUCT AGG FE

MATCHLINE STA 365+00

STA 262+76 RT
CONSTRUCT AGG PE

MATCHLINE STA 350+00

PC 351+81.43

DUNN CO ELEC COOP

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

LEGEND
EMAT URBAN
CLASS ITYPE A
SILT FENCE

SPRINT

VERIZON BUSINESS (MCI)

UNION PACIFIC RAILROAD

AT&T LEGACY

MATCHLINE STA 365+00

S 55°11'10" E

370+00

375+00

USH 12

MATCHLINE STA 380+00

DUNN CO ELEC COOP

PROPOSED R/W (TYP)

PI 374+80.93

STA 375+46.28
EXIST 30"X55' CPCS
TO BE REMOVED
1-30"X62' CPRC CLASS IV SKEW 15° (RHF) REQ'D
2-AEW FOR CPRC 30" REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D
INLET EL: 876.7
OUTLET EL: 875.0

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 96	E

FILE NAME : P:\UZ\W\Wifnw\118872\CAD\PPUSH1219.dgn PLOT TIME : 12:47:22 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 44

STA 380+94 LT
CONSTRUCT AGG FE

STA 388+97.47 USH 12
MATCH EXISTING MODIFIED TYPE C INTERSECTION

330TH ST

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

N

SPRINT

VERIZON BUSINESS (MCI)

AT&T LEGACY

BIKE PATH

UNION PACIFIC RAILROAD

AT&T WISCONSIN

MATCHLINE STA 380+00

R/W

385+00

S 55°12'42" E

USH 12

390+00

MATCHLINE STA 395+00

R/W

STA 380+87 RT
CONSTRUCT AGG PE

DUNN CO ELEC COOP

STA 384+90 RT
CONSTRUCT AGG PE

STA 387+43 RT
CONSTRUCT AGG PE

A/C

STA 393+77 RT
CONSTRUCT AGG PE

POOL

LEGEND

EMAT URBAN
CLASS I TYPE A

SILT FENCE

STA 400+78.15
REGRADE DITCH LT & RT REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D

AT&T LEGACY

SPRINT

VERIZON BUSINESS (MCI)

PI 398+30.54

N

SEPTIC

PC 408+42.40

MATCHLINE STA 395+00

R/W

400+00

S 55°09'15" E

405+00

USH 12

MATCHLINE STA 410+00

R/W

AT&T WISCONSIN

STA 404+82 RT
CONSTRUCT AGG PE

DUNN CO ELEC COOP

CANOPY

SIGN

STA 398+30.54 USH 12
MATCH EXISTING MODIFIED TYPE C INTERSECTION

690TH AVE

CURVE DATA
DELTA =28°00'13.78" (LT)
D =4°01'14.72"
T =355.34
L =696.48
E =43.64
R =1425.00
DB =S 55°09'46.53" E
DA =S 83°10'00.31" E
PC STA 408+42.40
PC Y =189679.080
PC X =145134.482
PI STA 411+97.74
PI Y =189476.092
PI X =145426.141
PT STA 415+38.88
PT Y =189433.813
PT X =145778.960
SE =5.7

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 97	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\PPUSH1220.dgn PLOT TIME : 12:47:23 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 44

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
STA 414+44.90 TO STA 414+51.24 LT

STEEL PLATE BEAM GUARD SHORT RADIUS
STA 414+51.24 TO STA 414+85.29 LT

SPRINT

VERIZON BUSINESS (MCI)

AT&T LEGACY

CURVE DATA
DELTA =16°35'57.18" (RT)
D =2°09'43.58"
T =386.57
L =767.73
E =28.05
R =2650.00
DB =S 83°10'00.31" E
DA =S 66°34'03.13" E
PC STA 420+94.51
PC Y =189367.705
PC X =146330.638
PI STA 424+81.08
PI Y =189321.710
PI X =146714.466
PT STA 428+62.24
PT Y =189167.982
PT X =147069.160
SE =4.1

N

MATCHLINE STA 410+00

STA 414+39 LT
CONSTRUCT AGG PE

STA 412+09 LT
CONSTRUCT AGG PE

PT 415+38.88

R/W

415+00

420+00

S 83°10'00" E

USH 12

PI 424+81.08

MATCHLINE STA 425+00

CURVE DATA
DELTA =28°00'13.78" (LT)
D =4°01'14.72"
T =355.34
L =696.48
E =43.64
R =1425.00
DB =S 55°09'46.53" E
DA =S 83°10'00.31" E
PC STA 408+42.40
PC Y =189679.080
PC X =145134.482
PI STA 411+97.74
PI Y =189476.092
PI X =145426.141
PT STA 415+38.88
PT Y =189433.813
PT X =145778.960
SE =5.7

PI 411+97.74

AT&T WISCONSIN

SLOPE INTERCEPTS (TYP)

STA 412+22 RT
CONSTRUCT AGG PE

STEEL PLATE BEAM GUARD CLASS A REQ'D
STA 414+85.29 TO STA 415+35.79 LT
STA 415+02.87 TO STA 415+52.52 RT
STA 417+91.78 TO STA 423+40.12 LT
STA 418+06.96 TO STA 418+56.96 RT

STEEL PLATE BEAM GUARD EAT REQ'D
STA 414+53.37 TO STA 415+02.87 LT
STA 418+56.96 TO STA 419+06.96 RT
STA 423+40.12 TO STA 423+89.74 LT

DUNN CO ELEC COOP

PC 420+94.51

STEEL THRIE BEAM STRUCTURE REQ'D
STA 415+35.79 TO STA 415+56.47 LT
STA 415+52.52 TO STA 415+73.17 RT
STA 417+71.14 TO STA 417+91.78 LT
STA 417+86.31 TO STA 418+06.96 RT
FIELD VERIFY STATION AND OFFSET
FOR CONNECTION TO EXISTING SQUARE
END CONCRETE PARAPET.

STA 423+75 RT
CONSTRUCT AGG PE

DUNN CO ELEC COOP

LEGEND
EMAT URBAN
CLASS I TYPE A
SILT FENCE

CURVE DATA
DELTA =16°35'57.18" (RT)
D =2°09'43.58"
T =386.57
L =767.73
E =28.05
R =2650.00
DB =S 83°10'00.31" E
DA =S 66°34'03.13" E
PC STA 420+94.51
PC Y =189367.705
PC X =146330.638
PI STA 424+81.08
PI Y =189321.710
PI X =146714.466
PT STA 428+62.24
PT Y =189167.982
PT X =147069.160
SE =4.1

STA 426+58 LT
CONSTRUCT AGG FE

SPRINT

VERIZON BUSINESS (MCI)

AT&T LEGACY

R/W

430+00

435+00

S 66°34'03" E

USH 12

MATCHLINE STA 425+00

MATCHLINE STA 440+00

PT 428+62.24

STA 426+65 RT
CONSTRUCT ASPH PE

DUNN CO ELEC COOP

AT&T WISCONSIN

STA 435+45 RT
CONSTRUCT AGG PE

STA 436+46 RT
CONSTRUCT ASPH PE

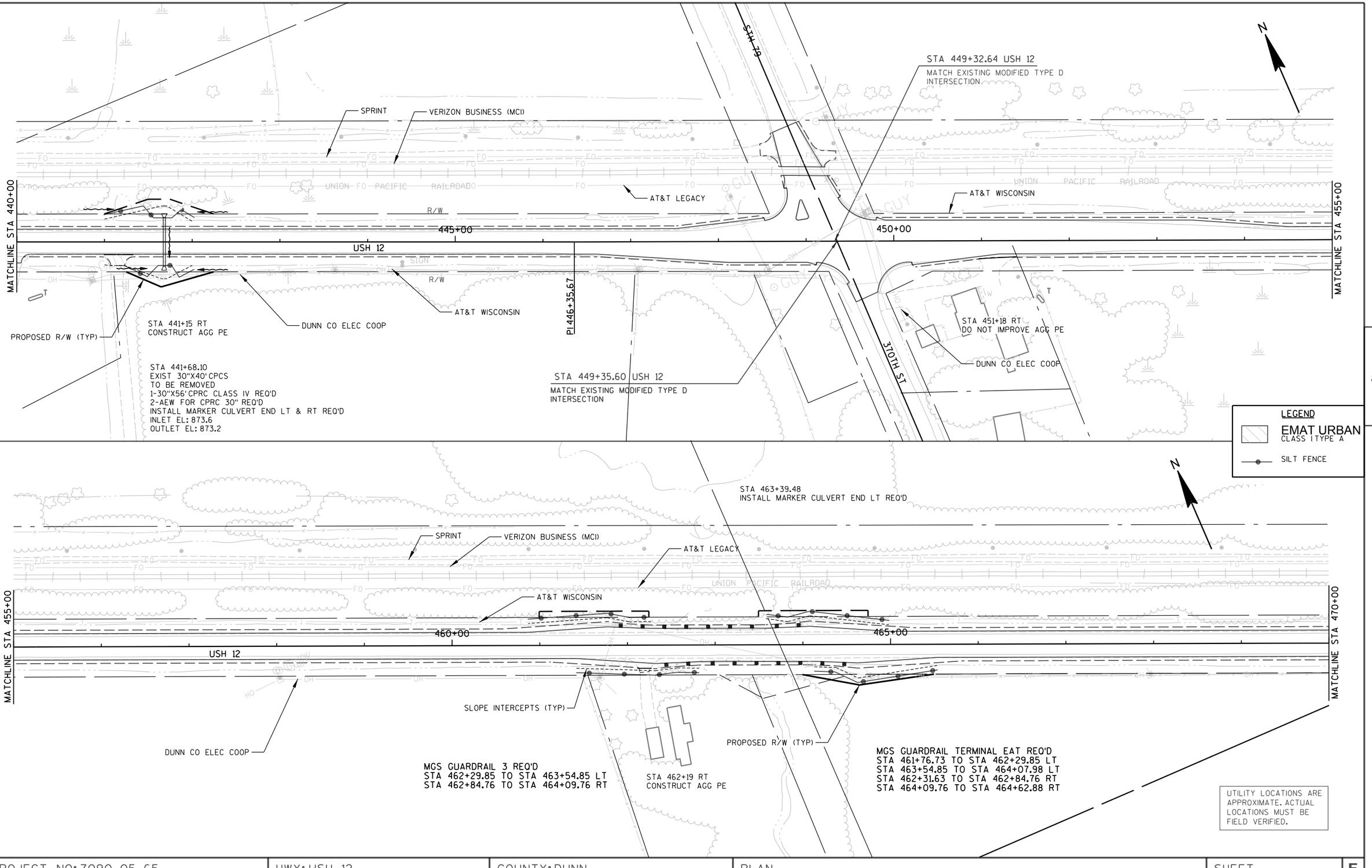
STA 439+89 RT
CONSTRUCT ASPH PE

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 98	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\PPUSH1221.dgn PLOT TIME : 12:47:24 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 44



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 99	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\PPUSH1222.dgn PLOT TIME : 12:47:25 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 44

5

STA 474+36.73
INSTALL MARKER CULVERT END RT REQ'D

SPRINT

VERIZON BUSINESS (MCI)

UNION PACIFIC RAILROAD

AT&T WISCONSIN

AT&T LEGACY

R/W

MATCHLINE STA 470+00

475+00

S 66°44'17" E

USH 12

R/W

DUNN CO ELEC COOP

STA 472+23 RT
CONSTRUCT ASPH PE

CTH BB

STA 478+08.36 USH 12
CONSTRUCT MODIFIED TYPE D INTERSECTION

UNKNOWN

CAUTION

480+00

MATCHLINE STA 485+00

STA 480+72.22
CLEANING CULVERT PIPE REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D

STA 483+45 RT
CONSTRUCT AGG PE

390TH ST

N

LEGEND

EMAT URBAN
CLASS I TYPE A

SILT FENCE

5

STA 487+45.35
INSTALL MARKER CULVERT END LT & RT REQ'D

SPRINT

VERIZON BUSINESS (MCI)

UNION PACIFIC RAILROAD

AT&T LEGACY

R/W

MATCHLINE STA 485+00

490+00

USH 12

R/W

495+00

MATCHLINE STA 500+00

STA 485+50.25
CLEANING CULVERT PIPE REQ'D
INSTALL MARKER CULVERT END RT REQ'D

STA 488+20 RT
CONSTRUCT AGG PE

DUNN CO ELEC COOP

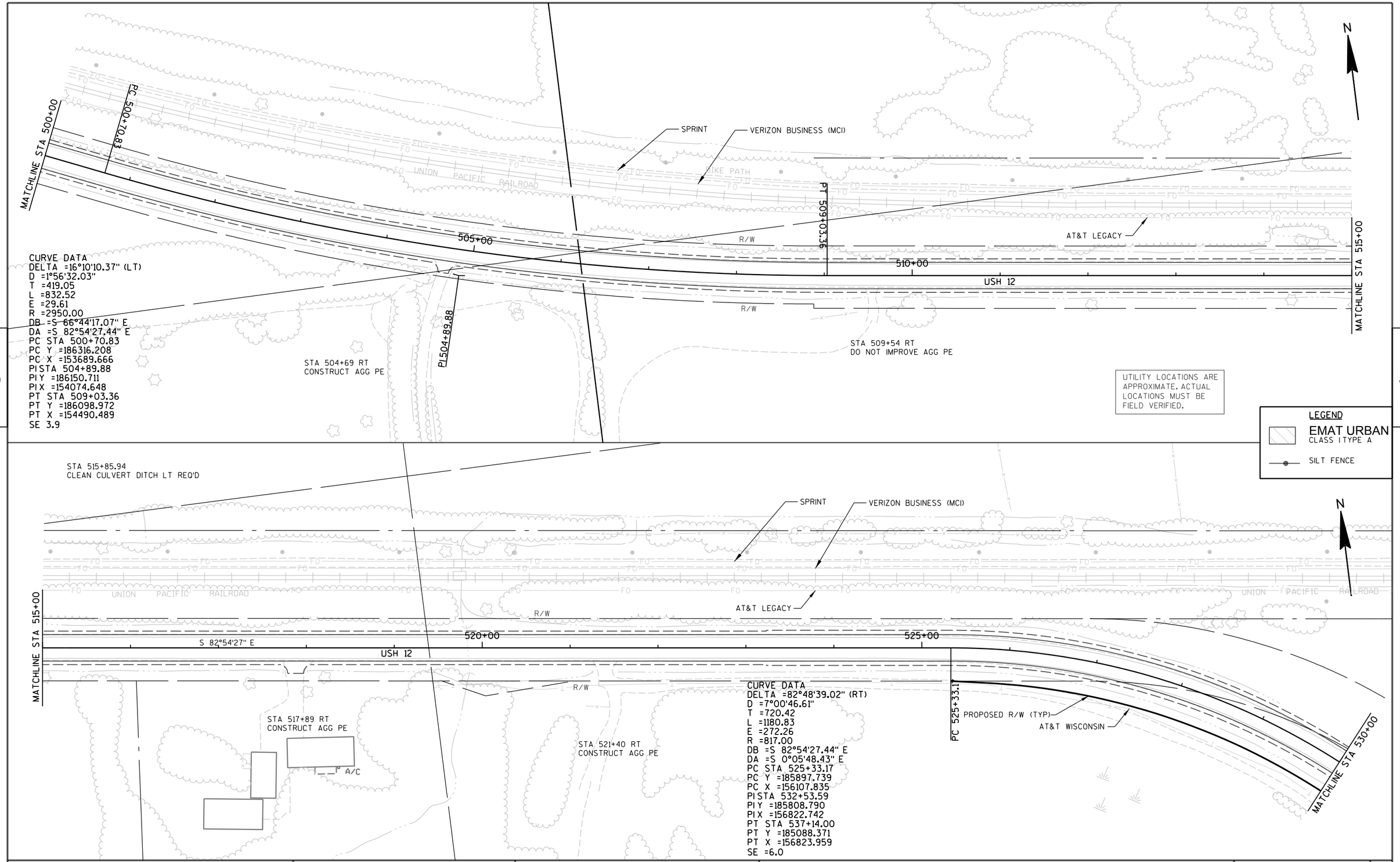
STA 495+65 RT
CONSTRUCT AGG PE

N

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 100	E

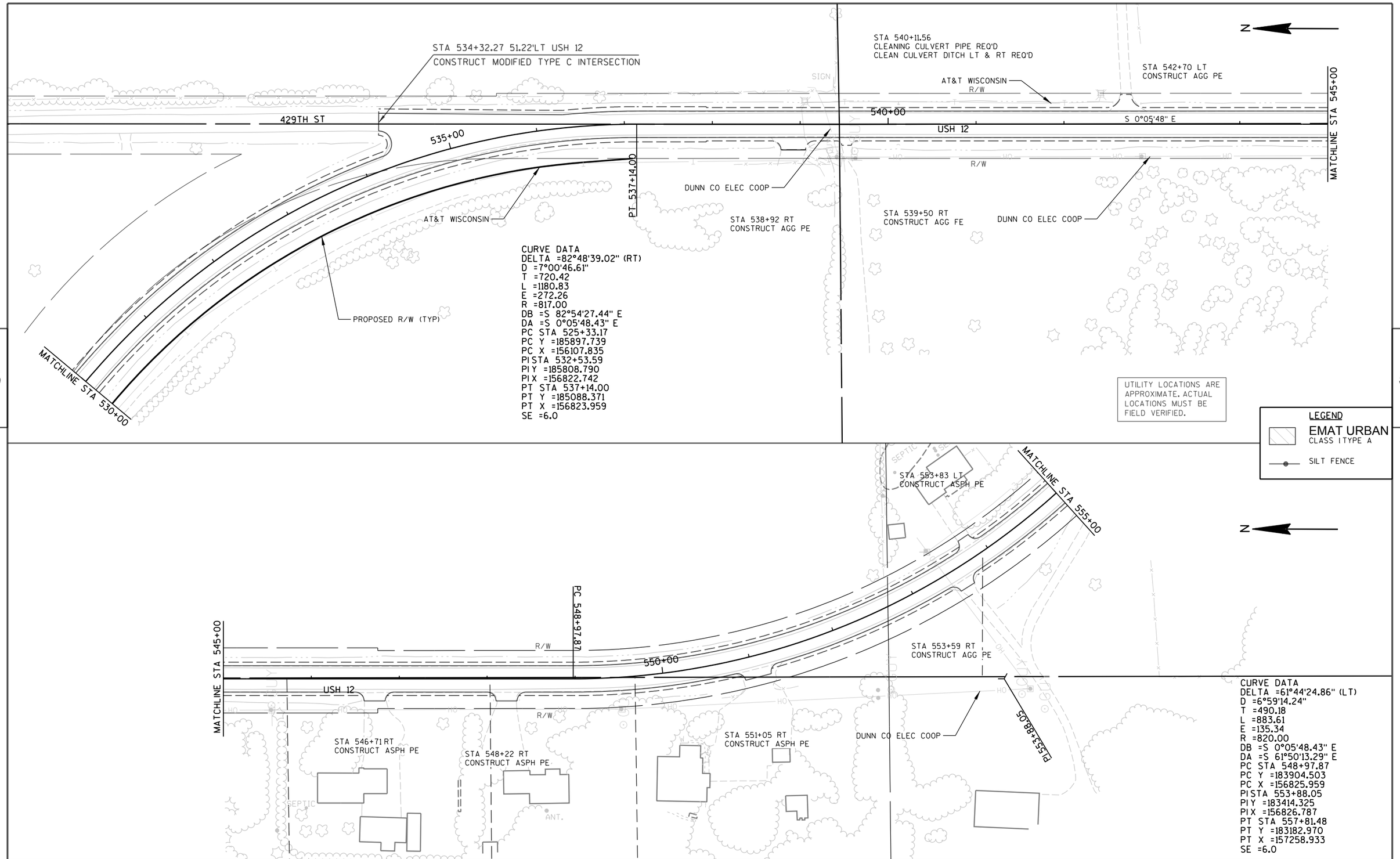
FILE NAME : P:\UZ\W\Witnw\118872\CAD\PPUSH1223.dgn PLOT TIME : 12:47:26 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 101	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\PPUSH1224.dgn PLOT TIME : 12:47:27 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 44



PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 102	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\PPUSH1225.dgn PLOT TIME : 12:47:27 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 44

LEGEND

EMAT URBAN
CLASS I TYPE A

SILT FENCE

CURVE DATA
DELTA =61°44'24.86" (LT)
D =6°59'14.24"
T =490.18
L =883.61
E =135.34
R =820.00
DB =S 0°05'48.43" E
DA =S 61°50'13.29" E
PC STA 548+97.87
PC Y =183904.503
PC X =156825.959
PI STA 553+88.05
PI Y =183414.325
PI X =156826.787
PT STA 557+81.48
PT Y =183182.970
PT X =157258.933
SE 6.0

STA 557+74 LT
CONSTUCT ASPH PE

STA 561+78 LT
CONSTRUCT APSH PE

STA 563+81 LT
CONSTRUCT AGG PE

STEEL PLATE BEAM GUARD TERMINAL EAT REQ'D
STA 565+29.03 TO STA 565+79.81 RT
REMOVE EXISTING TURNED DOWN END AND 50' OF
EXISTING BEAM GUARD. VERIFY STATION AND OFFSET
FOR NEW CONNECTION IN FIELD.

PI 566+78.73

STEEL PLATE BEAM GUARD CLASS AREQ'D
STA 565+79.81 TO STA 571+13.51 RT

MATCHLINE STA 555+00

PT 557+81.48

560+00

S 61°50'13" E

USH 12

565+00

R/W

AT&T WISCONSIN

DUNN CO ELEC COOP

STA 556+07 RT
DO NOT IMPROVE AGG PE

PC 561+90.82

CURVE DATA
DELTA =37°33'23.28" (RT)
D =3°59'33.85"
T =487.91
L =940.62
E =80.68
R =1435.00
DB =S 61°50'13.29" E
DA =S 24°16'50.01" E
PC STA 561+90.82
PC Y =182989.766
PC X =157619.816
PI STA 566+78.73
PI Y =182759.484
PI X =158049.957
PT STA 571+31.44
PT Y =182314.737
PT X =158250.587
SE =5.6

SLOPE INTERCEPTS (TYP)

STA 569+54 LT
CONSTRUCT ASPH PE

XCEL ENERGY

MATCHLINE STA 570+00

STA 569+09.29
STRUCTURE C-17-5038 REPAIRS TO EXISTING SINGLE CELL
BOX CULVERT AND OUTLET APRON ENDWALL REQ'D
INSTALL MARKER CULVERT END LT & RT REQ'D

STA 574+84.28
INSTALL MARKER CULVERT END LT & RT REQ'D

CURVE DATA
DELTA =37°33'23.28" (RT)
D =3°59'33.85"
T =487.91
L =940.62
E =80.68
R =1435.00
DB =S 61°50'13.29" E
DA =S 24°16'50.01" E
PC STA 561+90.82
PC Y =182989.766
PC X =157619.816
PI STA 566+78.73
PI Y =182759.484
PI X =158049.957
PT STA 571+31.44
PT Y =182314.737
PT X =158250.587
SE =5.6

STA 572+11 LT
DO NOT IMPROVE AGG PE

XCEL ENERGY

SLOPE INTERCEPTS (TYP)

AT&T LEGACY

PI 571+42.95

PT 580+73.76

R/W

S 30°37'43" E

580+00

575+00

S 24°18'39" E

USH 12

MATCHLINE STA 570+00

PT 571+31.44

END PROJECT
STA 580+00
MATCH EXISTING
SAWCUT REQ'D

DUNN CO ELEC COOP

AT&T WISCONSIN

CITY OF MENOMONIE

PI 579+08.52

STEEL PLATE BEAM GUARD TERMINAL EAT REQ'D
STA 571+13.51 TO STA 571+63.78 RT
REMOVE EXISTING TURNED DOWN END AND 50' OF
EXISTING BEAM GUARD. VERIFY STATION AND OFFSET
FOR NEW CONNECTION IN FIELD.
STA 574+90.20 TO STA 575+40.20 RT
STA 575+23.72 TO STA 575+73.72 LT
STA 577+21.03 TO STA 577+71.03 RT
REMOVE EXISTING TYPE 2 END TERMINAL AND 50' OF
EXISTING BEAM GUARD. VERIFY STATION AND OFFSET
FOR NEW CONNECTION IN FIELD.
STA 577+51.09 TO STA 578+01.09 LT
REMOVE EXISTING TURNED DOWN END AND 50' OF
EXISTING BEAM GUARD. VERIFY STATION AND OFFSET
FOR NEW CONNECTION IN FIELD.

CITY OF MENOMONIE

CITY OF MENOMONIE

UTILITY LOCATIONS ARE
APPROXIMATE. ACTUAL
LOCATIONS MUST BE
FIELD VERIFIED.

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: DUNN	PLAN	SHEET 103	E

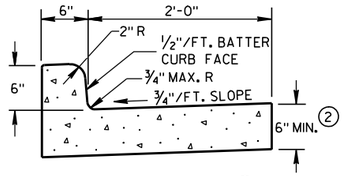
FILE NAME : P:\UZ\W\Wifnw\118872\CAD\PPUSH1226.dgn PLOT TIME : 12:47:28 PM PLOT DATE : 12/4/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 44

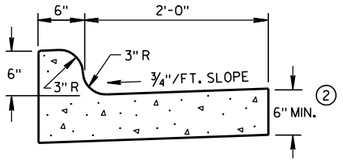
Standard Detail Drawing List

08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
13B01-10	PAVEMENT DETAILS FOR RAILROAD APPROACH
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
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B20-11D	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SLOPED END PARAPETS
14B20-11G	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTOR PLATE DETAIL
14B24-08A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B27-01A	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01B	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01C	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B28-03	GUARDRAIL MOW STRIP
14B42-03A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B43-03A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
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)
14B45-03E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16C	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C08-16D	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C09-09A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D20-02	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D28-02	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

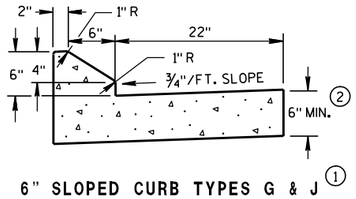
6



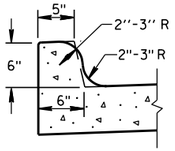
TYPES A & D (1)



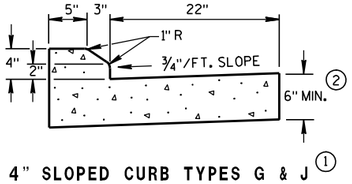
TYPES K & L (1)



6" SLOPED CURB TYPES G & J (1)

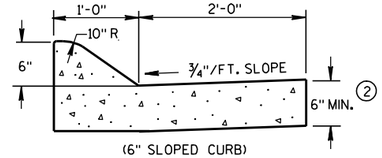


OPTIONAL CURB SHAPE FOR TYPES K & L (1)

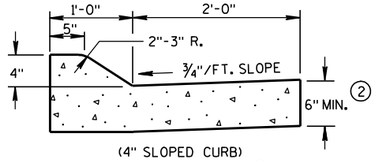


4" SLOPED CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

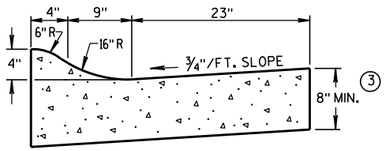


(6" SLOPED CURB)



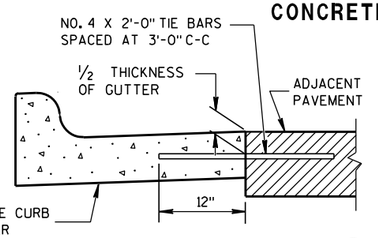
(4" SLOPED CURB)

TYPES A & D (1)

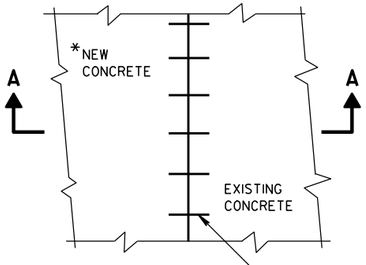


4" SLOPED CURB TYPES R & T (1) (4)

CONCRETE CURB & GUTTER 36"

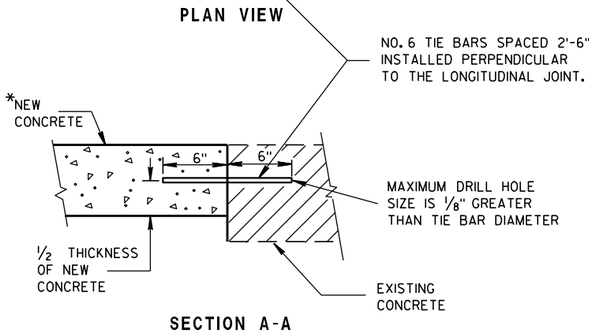


TYPICAL TIE BAR LOCATION (1)



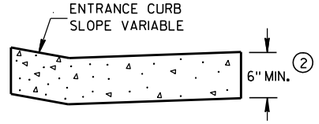
*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

PLAN VIEW

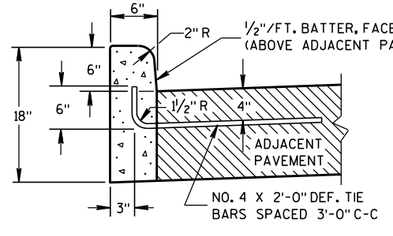


SECTION A-A

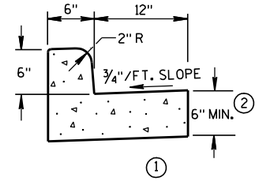
TIE BARS DRILLED INTO EXISTING PAVEMENT



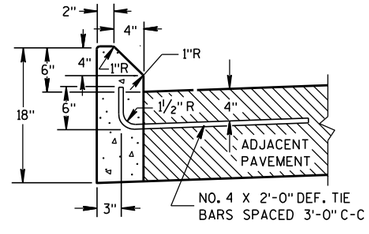
DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)



(1)
TYPES A & D

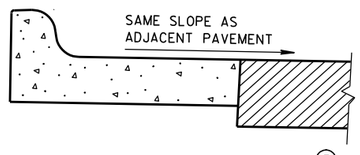


(1)
TYPES A & D
CONCRETE CURB & GUTTER 18"



(1)
TYPES G & J

CONCRETE CURB



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

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.

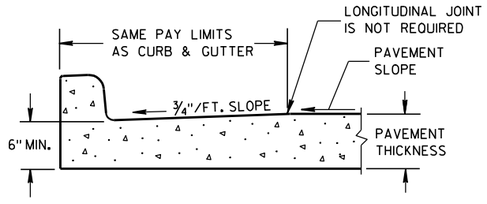
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

(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.

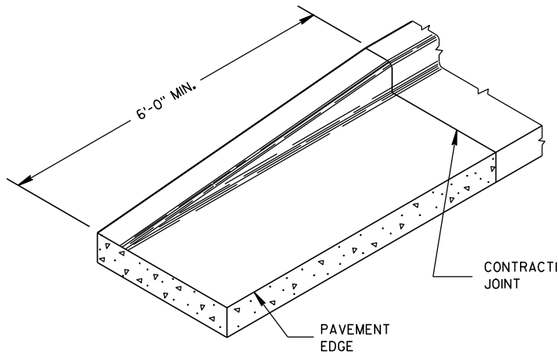
(3) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(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.



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

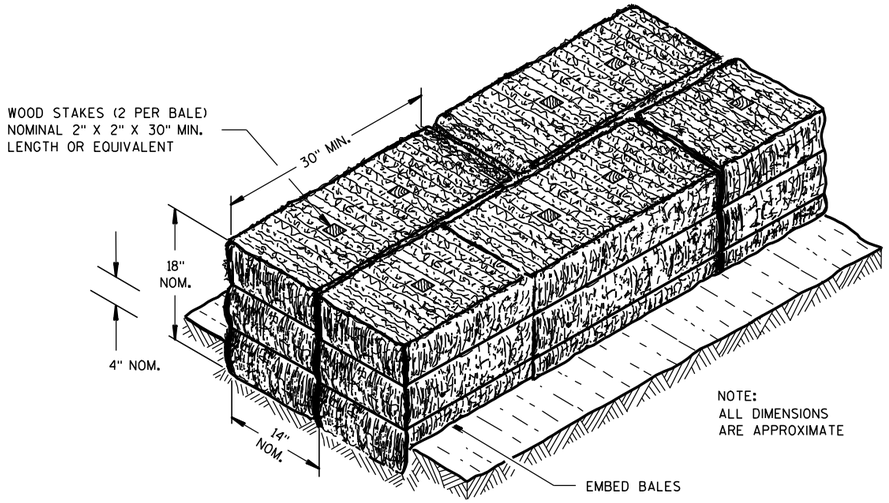
FHWA

6

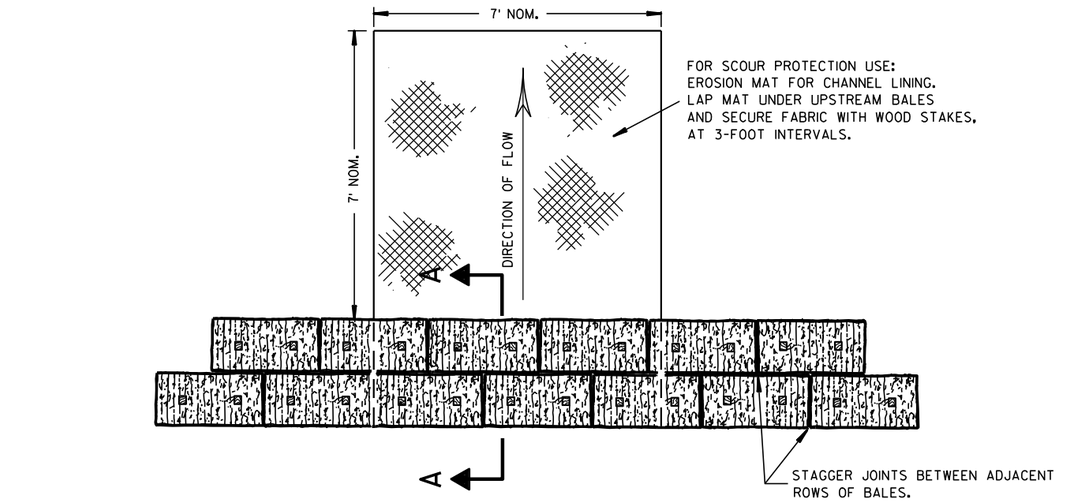
S.D.D. 8 D 1-17

6

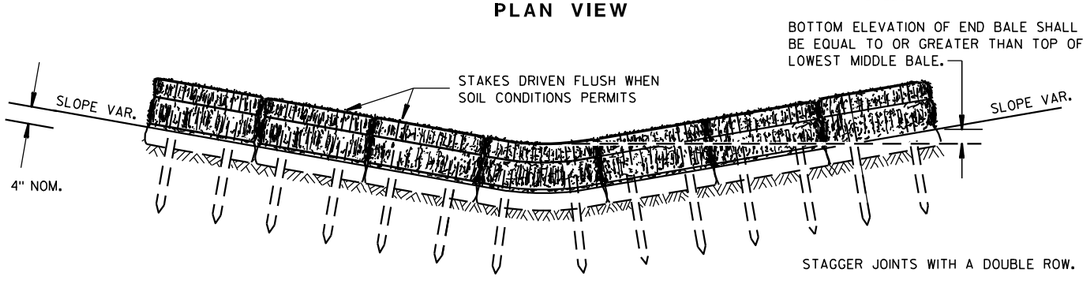
S.D.D. 8 D 1-17



SECTION A-A



PLAN VIEW



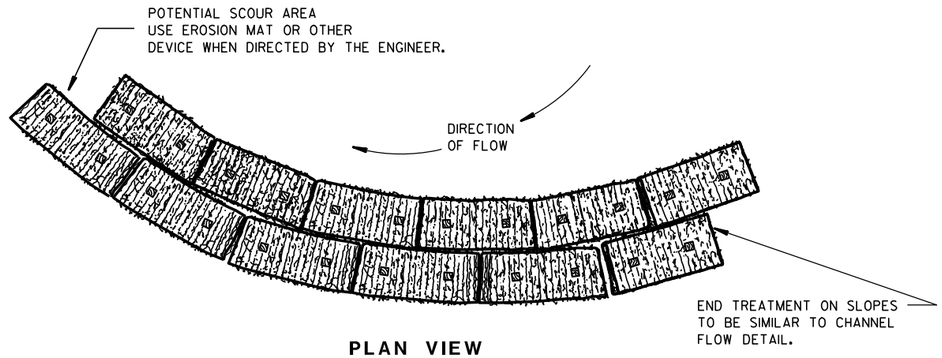
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

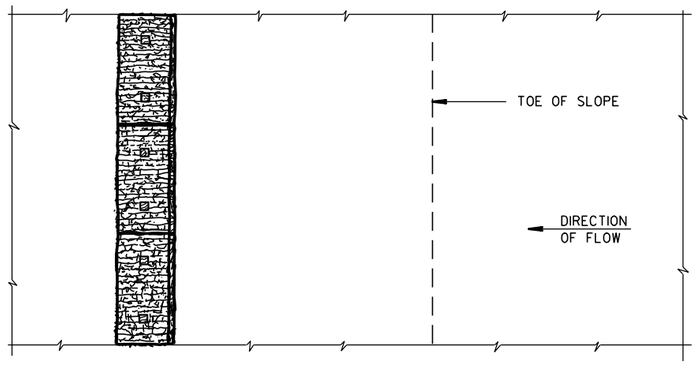
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

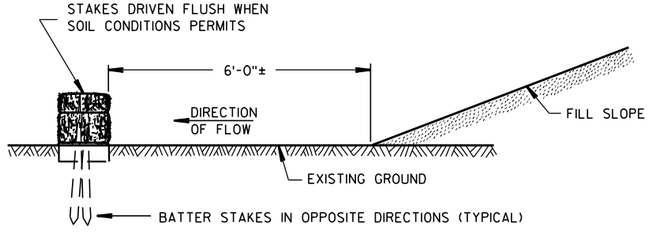


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

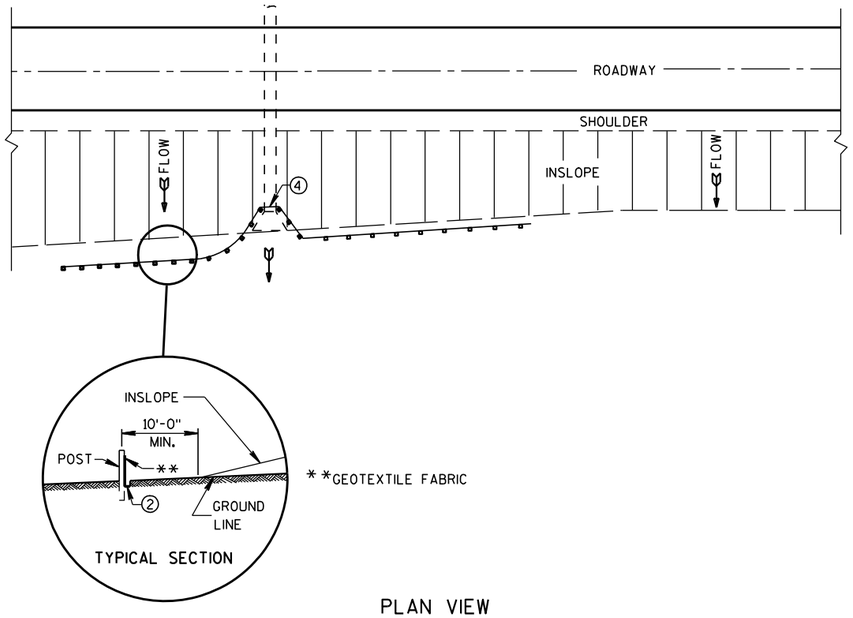
APPROVED
6/04/02 DATE
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

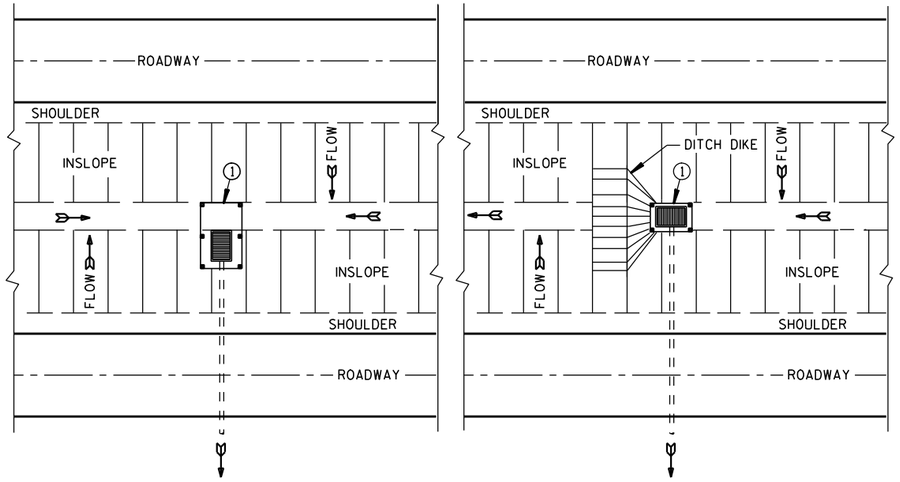
6

S.D.D. 8 E 8-3



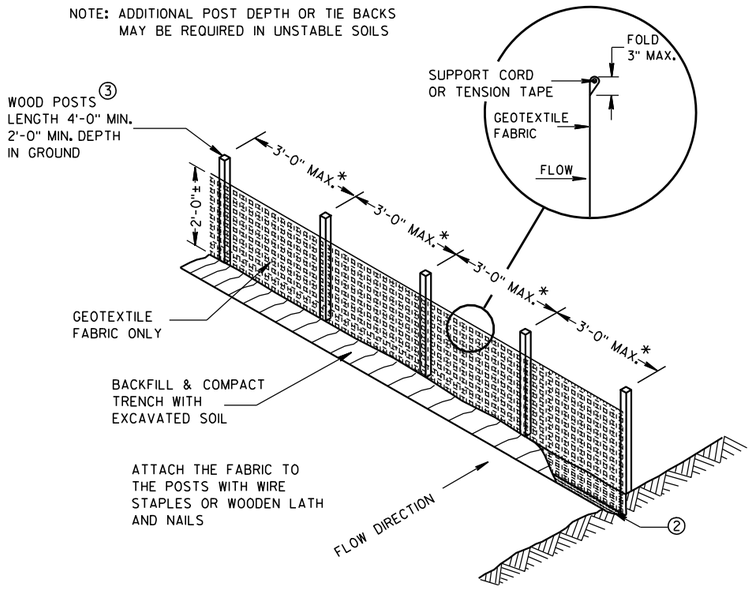
PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



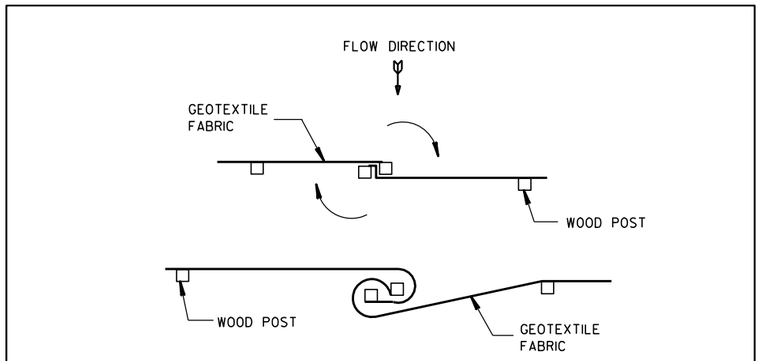
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS



*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

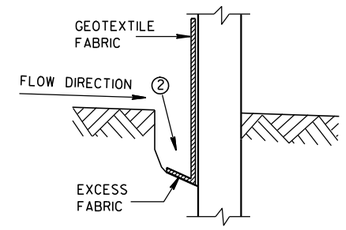


JOINING TWO LENGTHS OF SILT FENCE 5

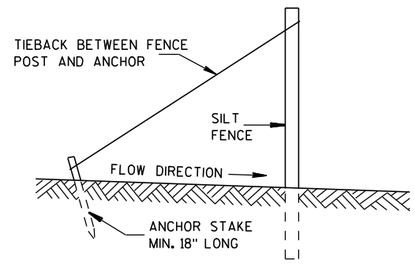
GENERAL NOTES

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 TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

S.D.D. 8 E 9-6

6

S.D.D. 8 E 9-6

METAL APRON ENDWALLS

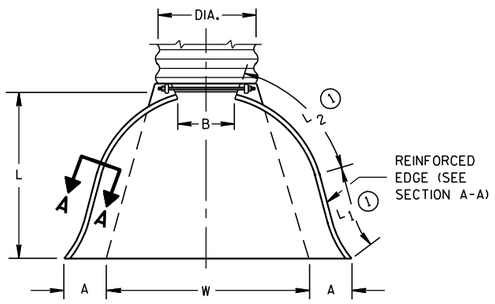
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

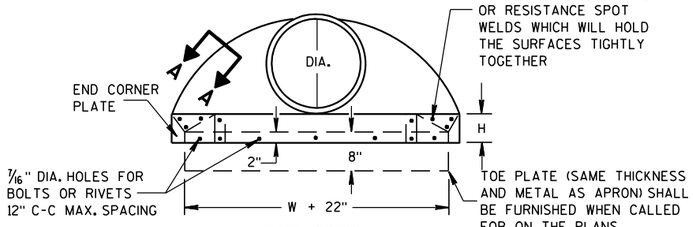
REINFORCED CONCRETE APRON ENDWALLS

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

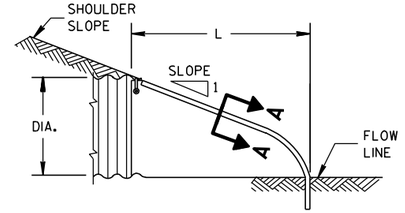
*MINIMUM
**MAXIMUM



PLAN VIEW

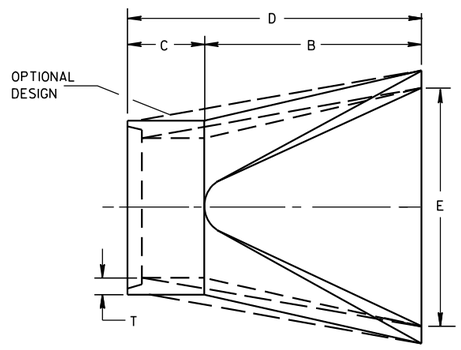


END VIEW

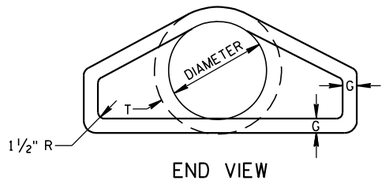


SIDE ELEVATION

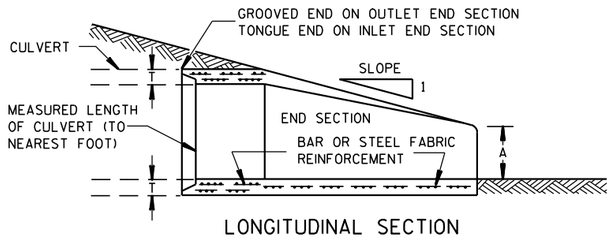
METAL ENDWALLS



PLAN

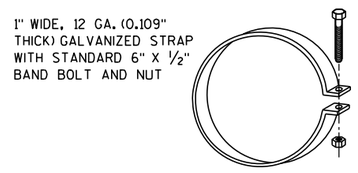


END VIEW



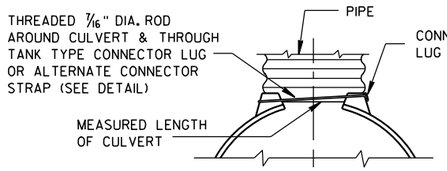
LONGITUDINAL SECTION

CONCRETE ENDWALLS

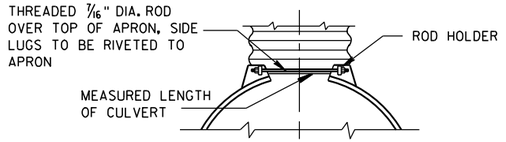


ALTERNATE FOR TYPE 1 CONNECTION

END SECTION CONNECTOR STRAP

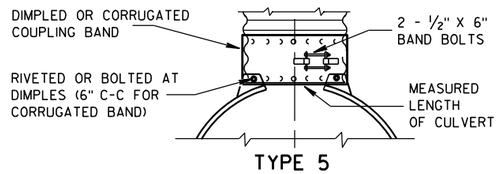


TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE

TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

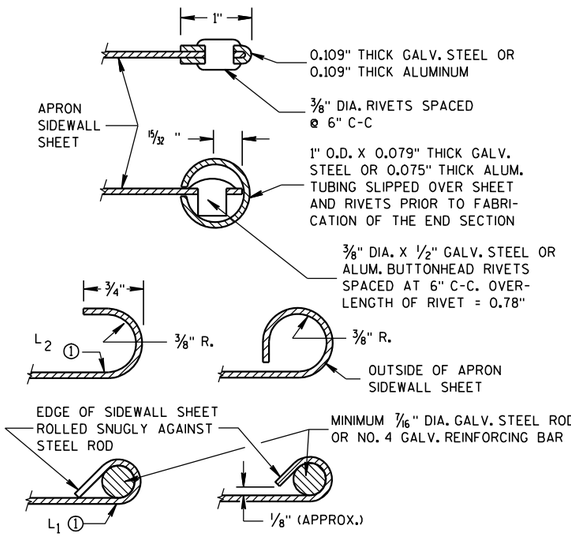
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

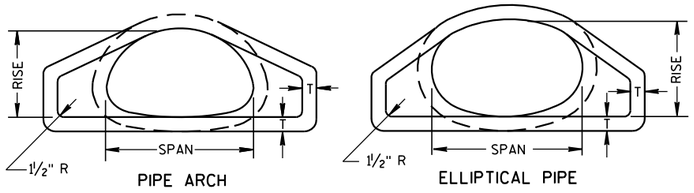
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

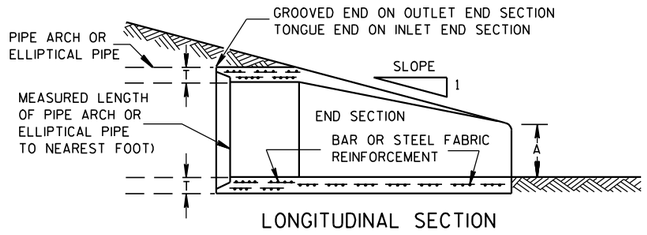
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

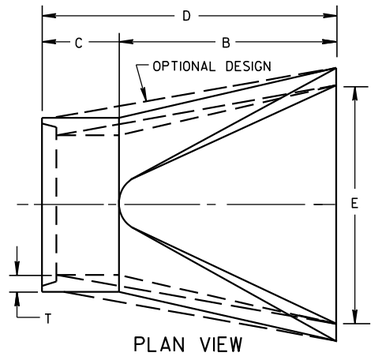
6
S.D.D. 8 F 1-11



END VIEW

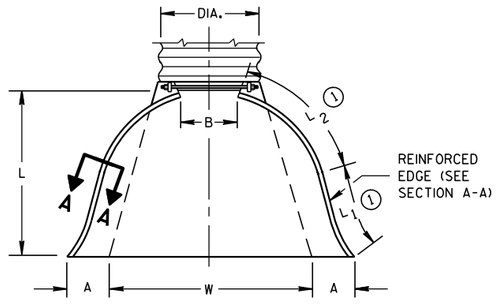


LONGITUDINAL SECTION

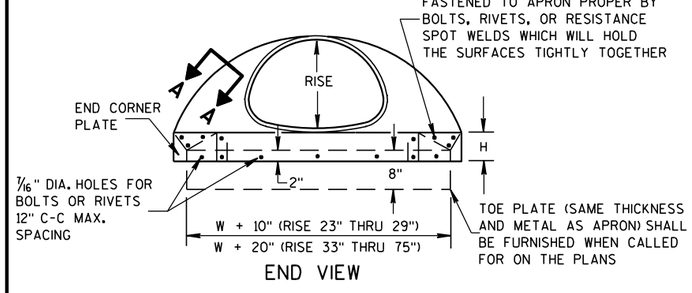


PLAN VIEW

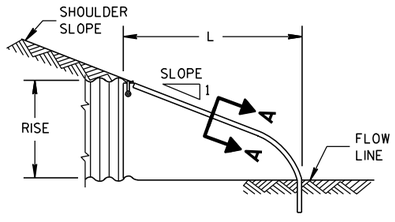
CONCRETE ENDWALLS



PLAN VIEW

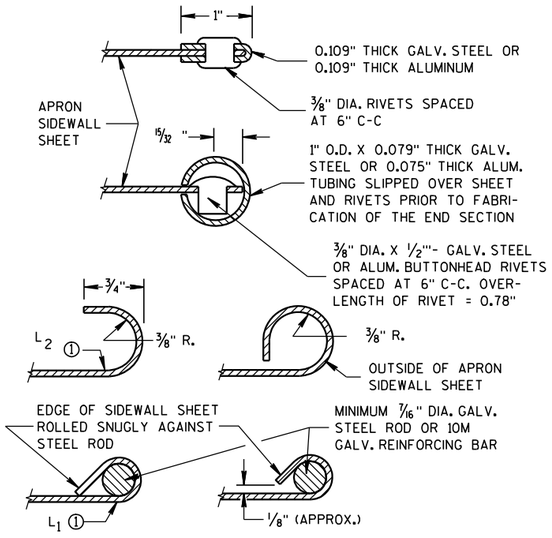


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

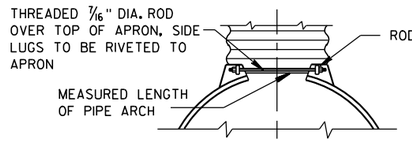
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

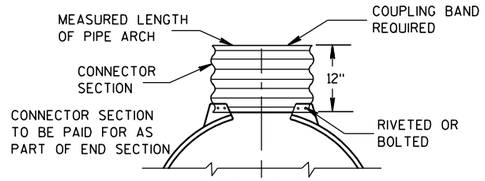
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



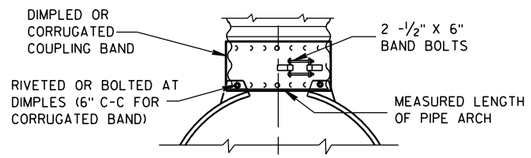
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

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

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

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

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

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

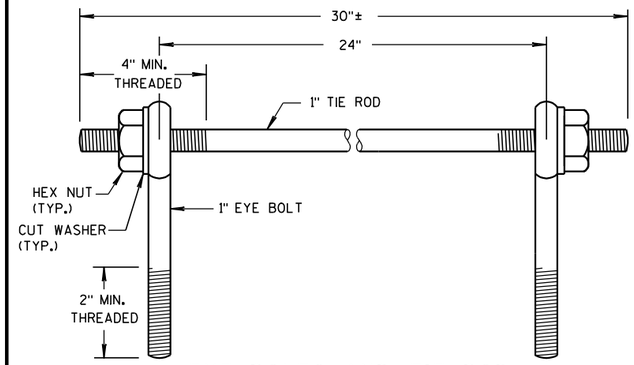
FHWA

6

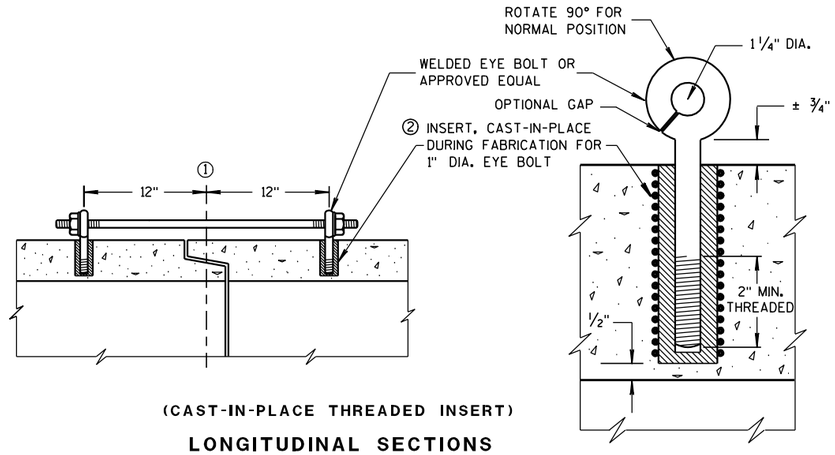
S.D.D. 8 F 2-1

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

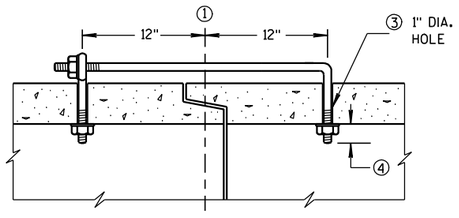
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

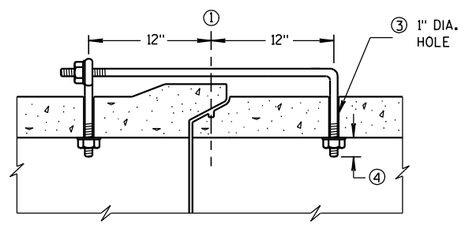
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

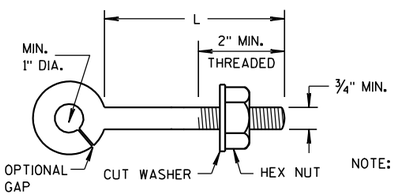


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

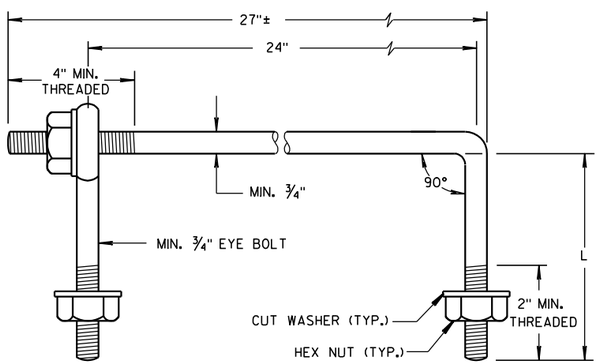
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

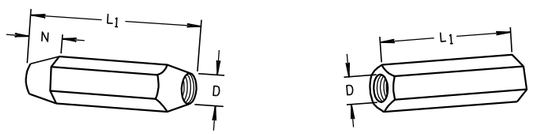
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

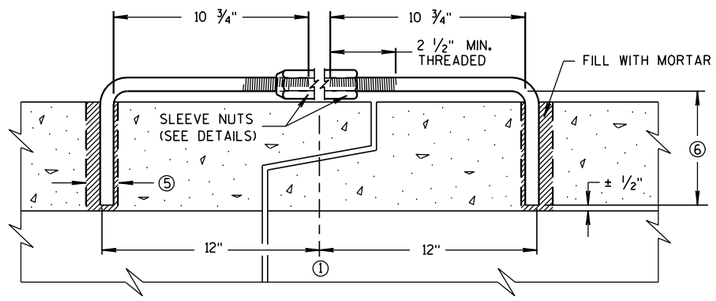
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

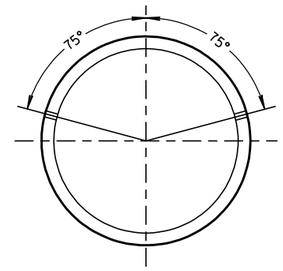
SLEEVE NUTS



LONGITUDINAL SECTION

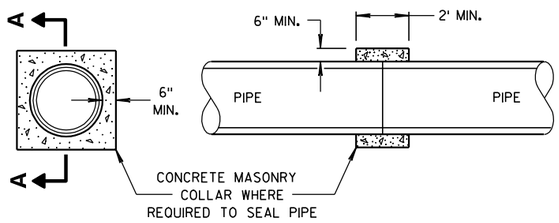
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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
110
FHWA

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S.D.D. 8 F 4-7

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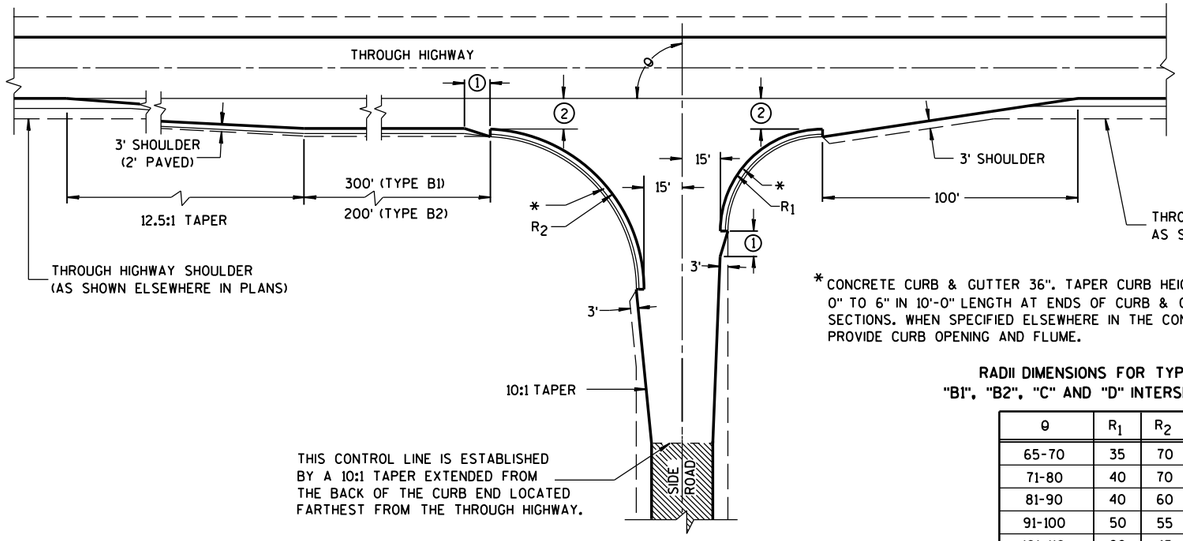
S.D.D. 8 F 4-7

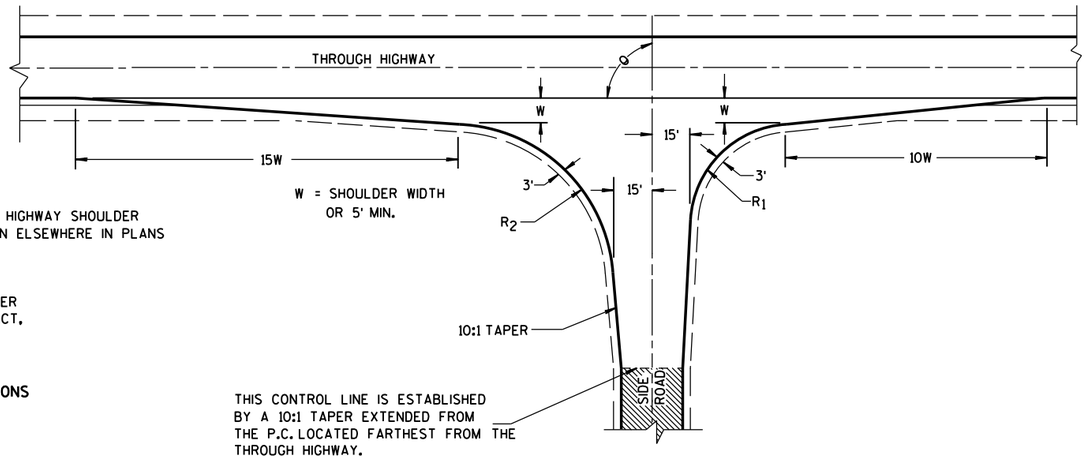


TYPE "B1" AND "B2"

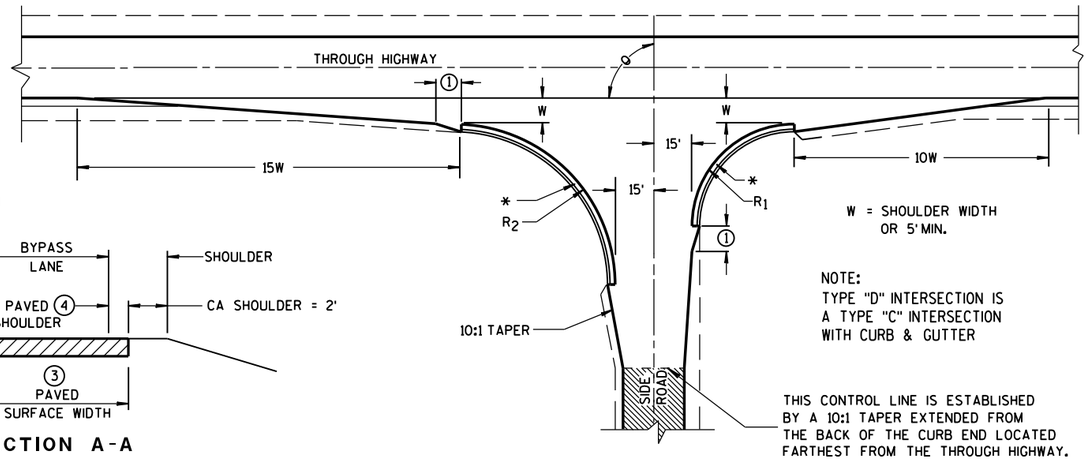
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

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

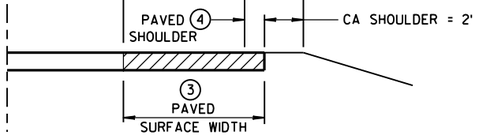
(1) 10-FT TYPICAL.

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

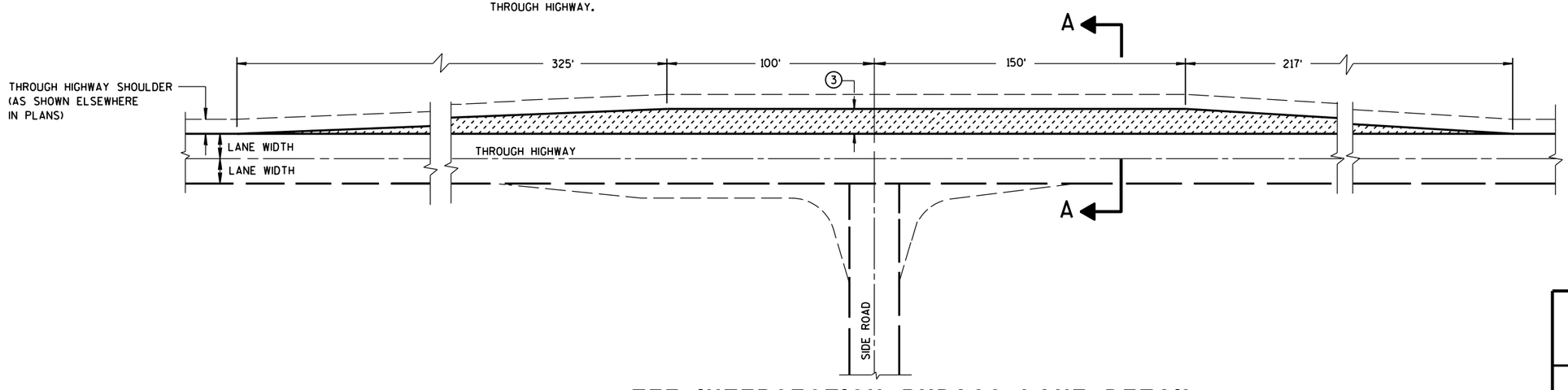
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(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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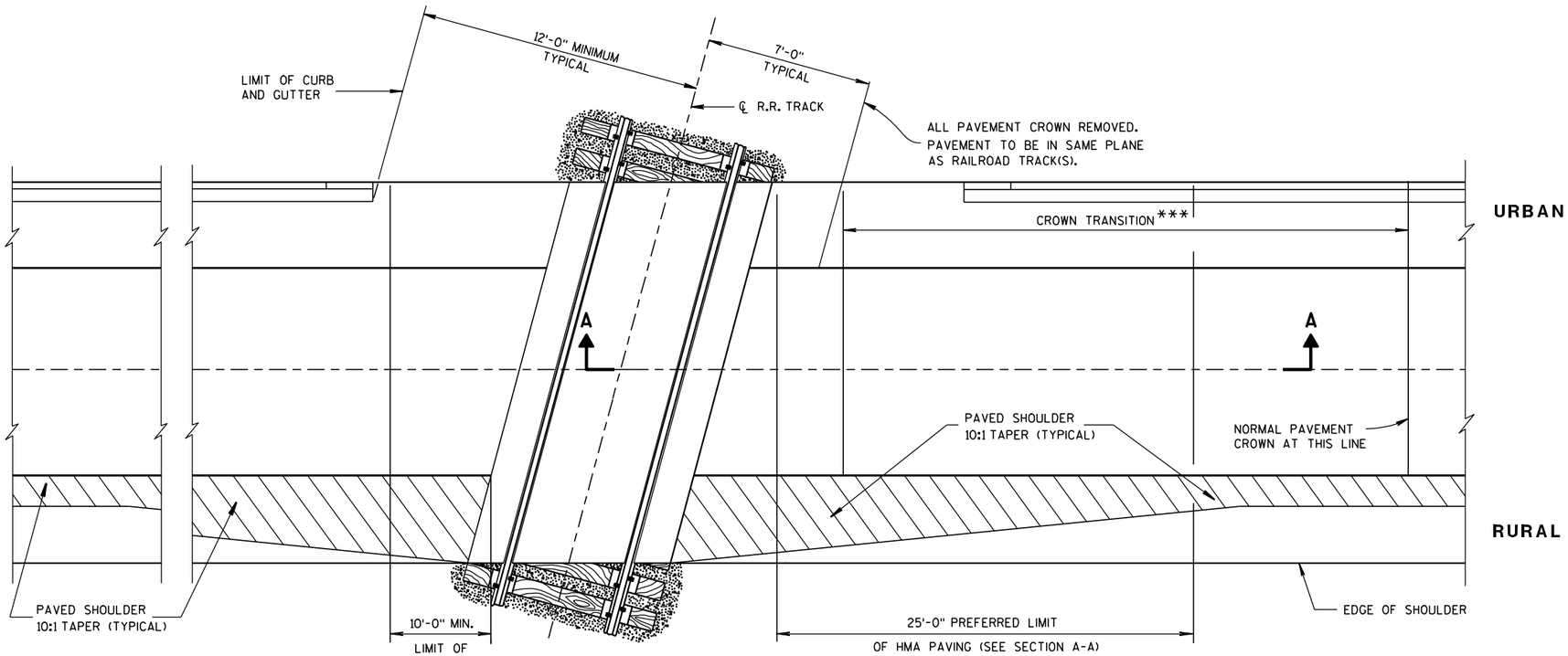
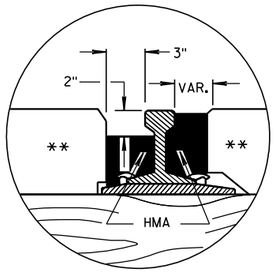




DETAIL B

HMA FLANGEWAY AND FIELD FILLERS

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.

TIMBER, CONCRETE OR RUBBER CROSSING SURFACE MATERIAL, RAILS, TIES, BALLAST, GEOTEXTILE FABRIC AND CROSSING DRAINAGE SYSTEM BY OTHERS UNLESS OTHERWISE PROVIDED.

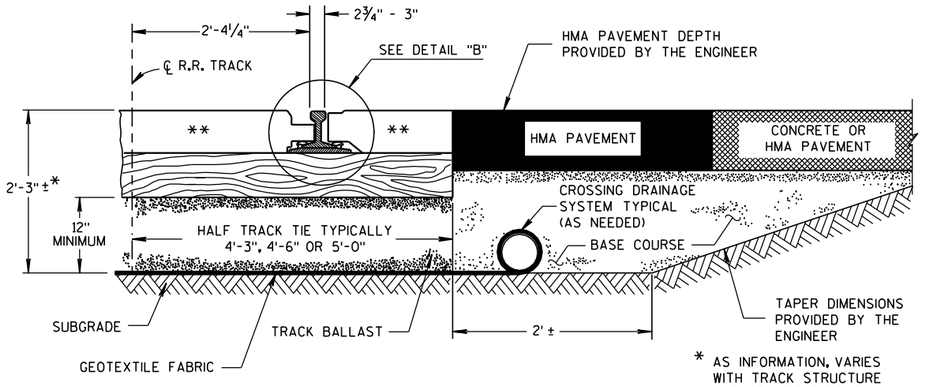
HMA PAVEMENT APPROACHES AND HMA PAVEMET CROSSING SURFACES TO BE PLACED BY CONTRACTOR UNLESS OTHERWISE PROVIDED.

HMA FLANGEWAY AND FIELD FILLERS TO BE PLACED AND THOROUGHLY HAND COMPACTED BY THE CONTRACTOR WHEN NOT PROVIDED BY OTHERS. SEE DETAIL B. HMA FILLERS NOT REQUIRED WHEN RUBBER FILLERS ARE PROVIDED.

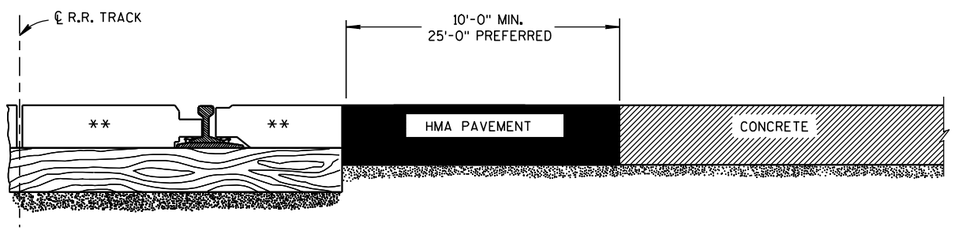
HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

** CROSSING SURFACE MAY BE TIMBER, RUBBER, CONCRETE, HMA PAVEMENT OR A COMBINATION OF SUCH MATERIALS.

*** CROWN TRANSITION LENGTH SHOWN ELSEWHERE IN THE PLAN.



TYPICAL HALF SECTION



SECTION A-A

CONCRETE PAVEMENT APPROACH

SECTION A-A

HMA PAVEMENT APPROACH

EXAMPLES OF PAVEMENT APPROACHES

PAVEMENT DETAILS FOR RAILROAD APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-28-09 DATE
/S/ Ronald E. Adams
CHIEF, RAILROADS & HAI CTION
FHWA

6

S.D.D. 13 B 1-10

6

S.D.D. 13 B 1-10

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.

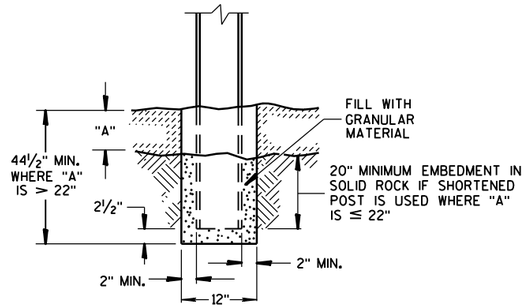
(5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).

(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.

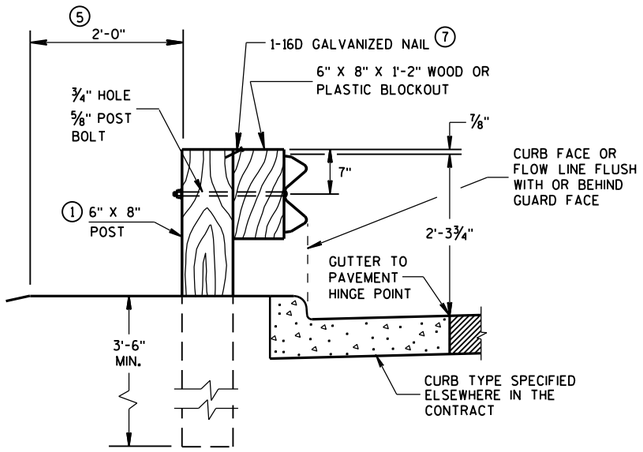
(7) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

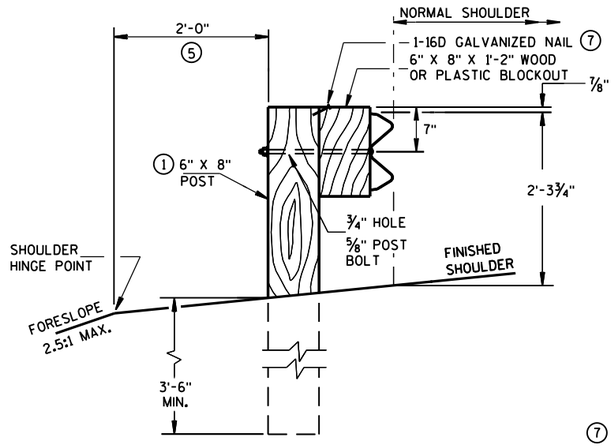
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



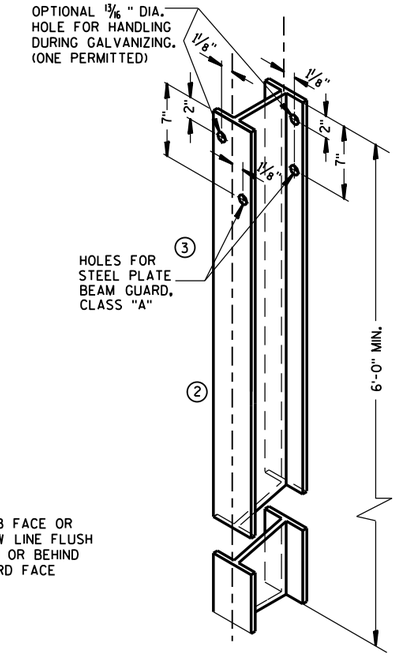
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)



END VIEW
LOCATED ALONG A CURBED ROADWAY

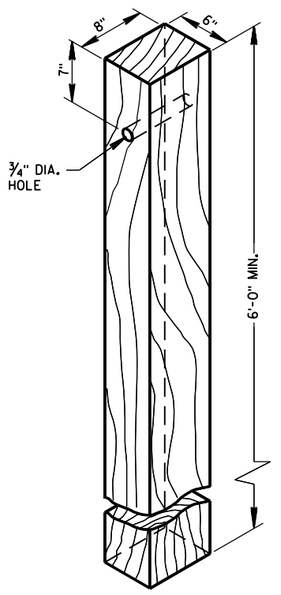


END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION

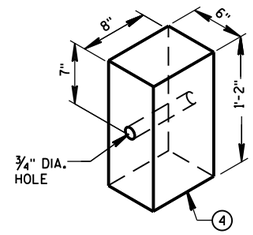


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

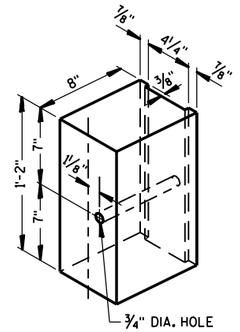
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



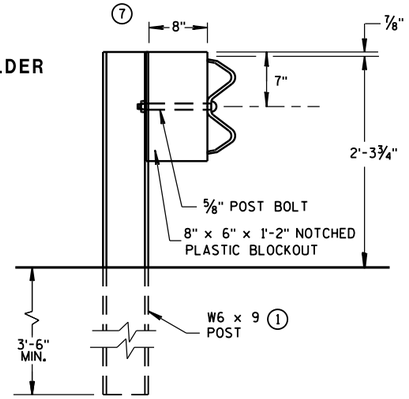
WOOD POST
(6"X8") NOMINAL



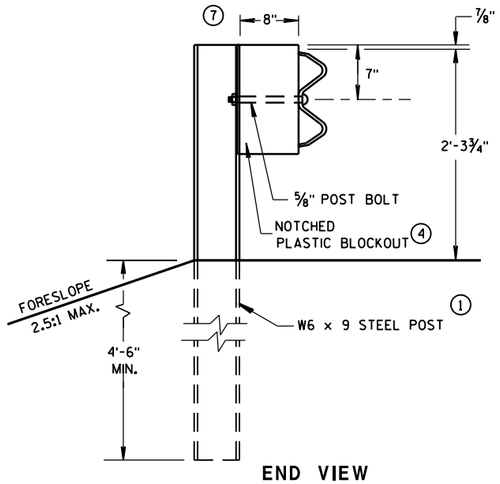
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



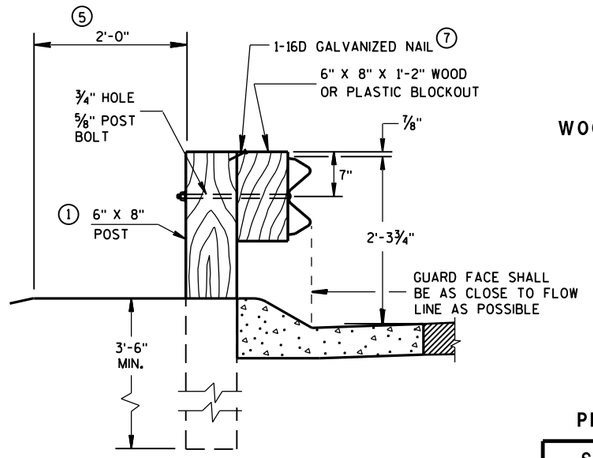
TYPICAL NOTCHED (1)
PLASTIC BLOCKOUT
FOR STEEL POSTS



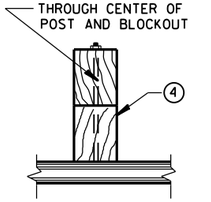
END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



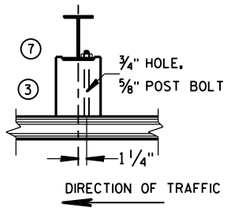
END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)



END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



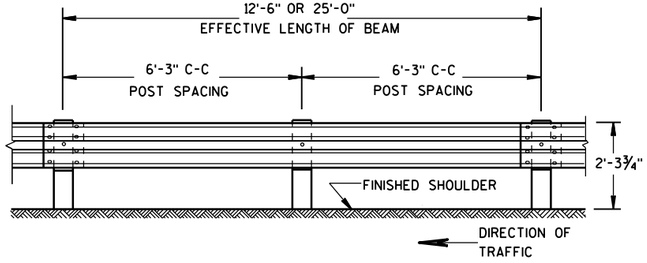
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

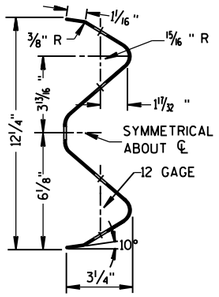
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 15-8a

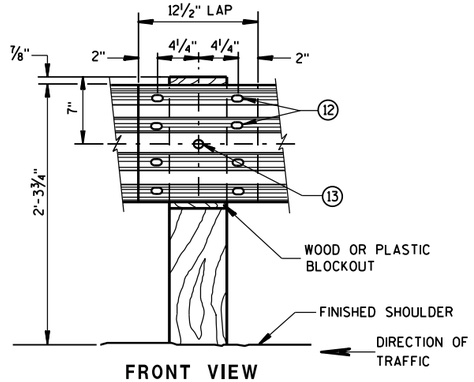


FRONT VIEW

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.

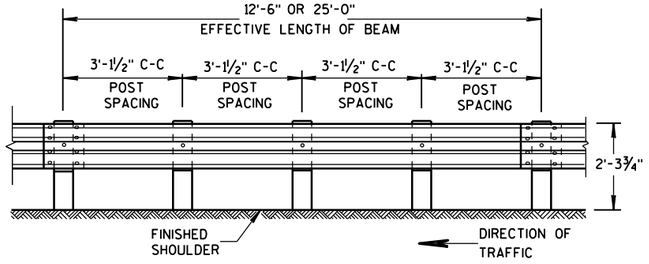
(9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

(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.

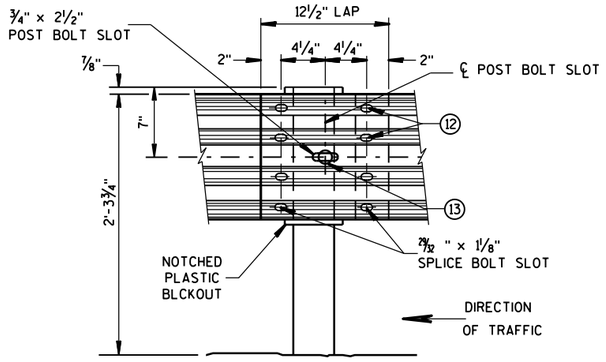
(12) 8 -⅝" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) ⅝" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH ⅝" DIA. F844 FLAT WASHER UNDER NUT.



FRONT VIEW

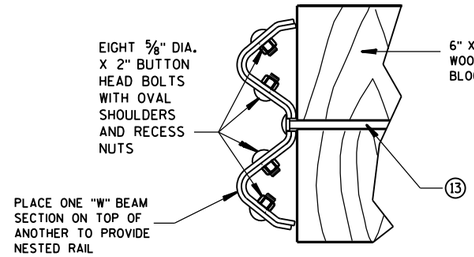
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

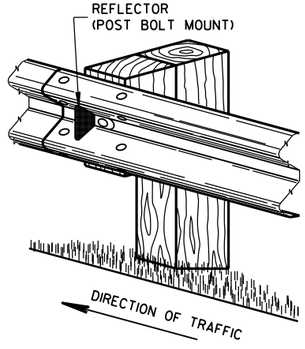


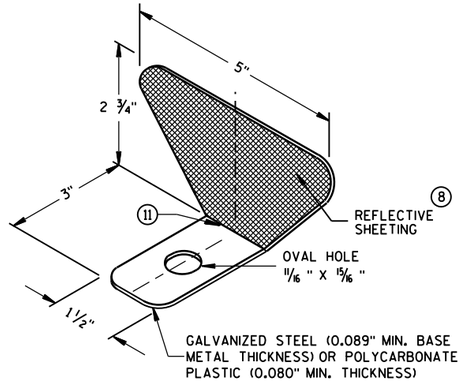
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

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 TRANSPOI

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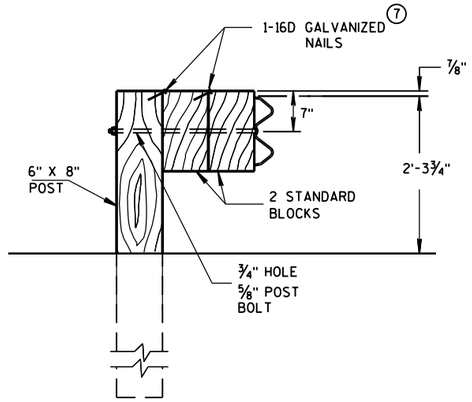
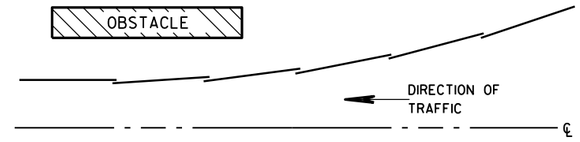
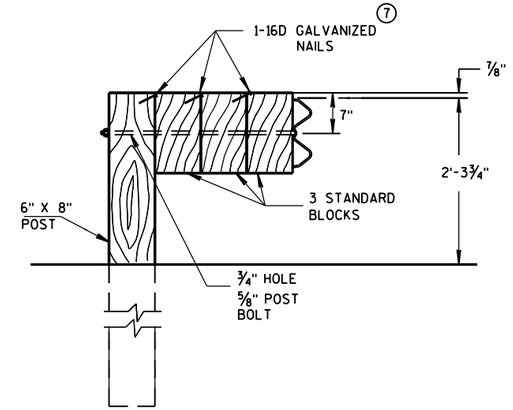


DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

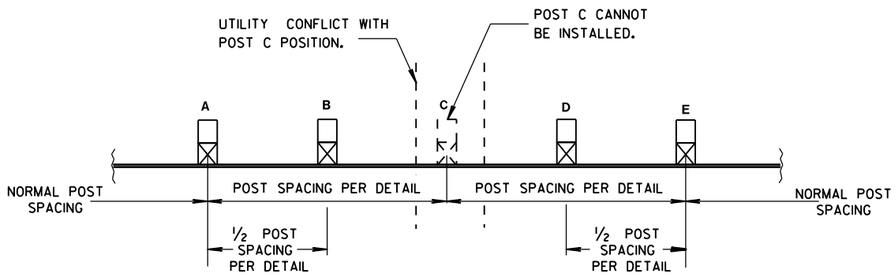


PLAN VIEW
BEAM LAPPING DETAIL



DETAIL FOR TRIPLE BLOCKS

TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

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.

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2014	/S/ Jerry H. Zogg
DATE	ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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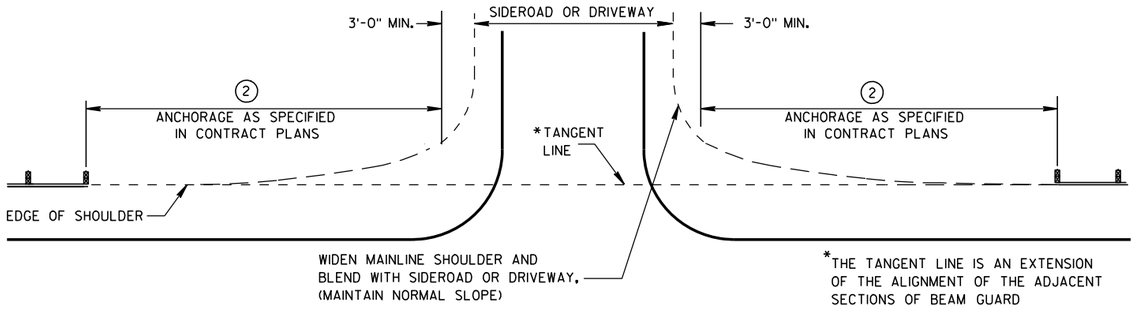
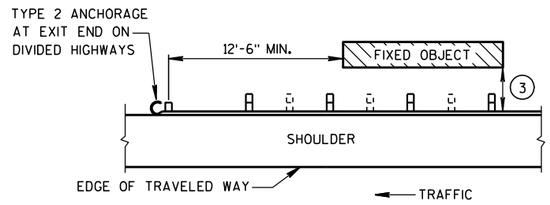
S.D.D. 14 B 15-8c



BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH 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.

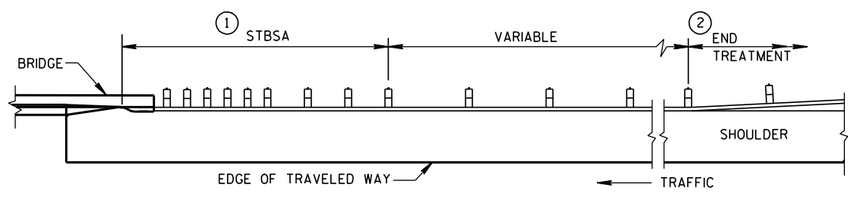
THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

(1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) - SEE CURRENT SDD 14B20.

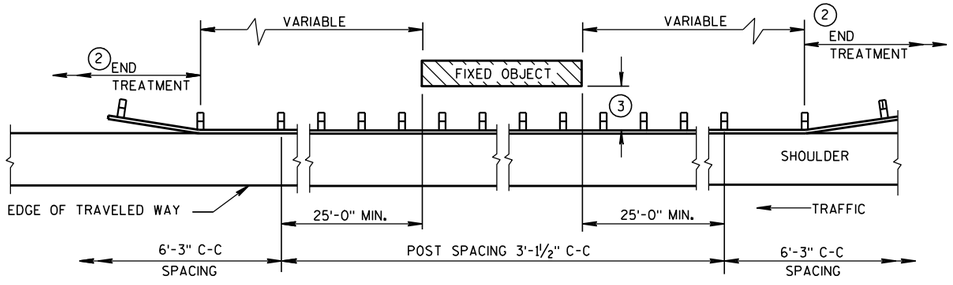
(2) USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

(3)

MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
3'-6"	3' - 1½"
4'-6"	6' - 3"

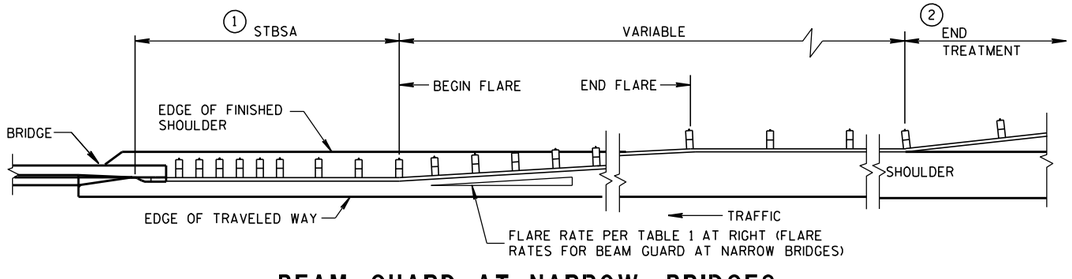


BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")



BEAM GUARD AT NARROW BRIDGES
(FLARED TO SHOULDER EDGE, THEN PARALLEL TO ROADWAY)

TABLE 1
FLARE RATES FOR BEAM GUARD AT NARROW BRIDGES

POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

STEEL PLATE BEAM GUARD CLASS "A" AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-21-07 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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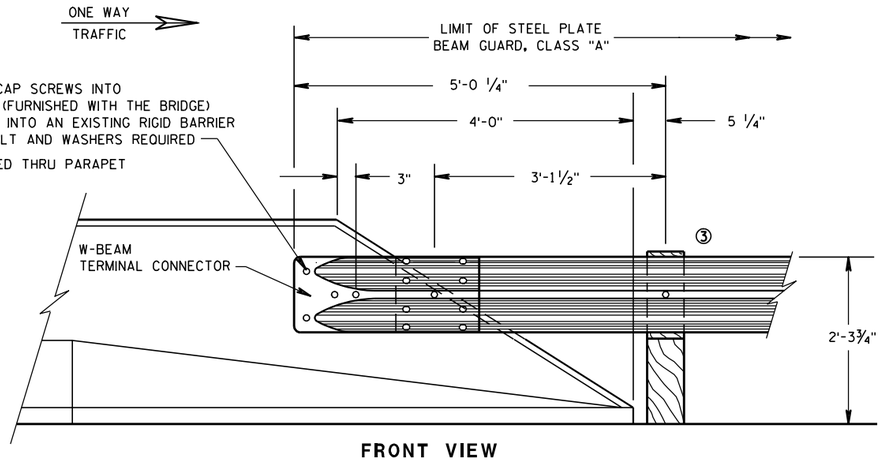
S.D.D. 14 B 18-6a



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

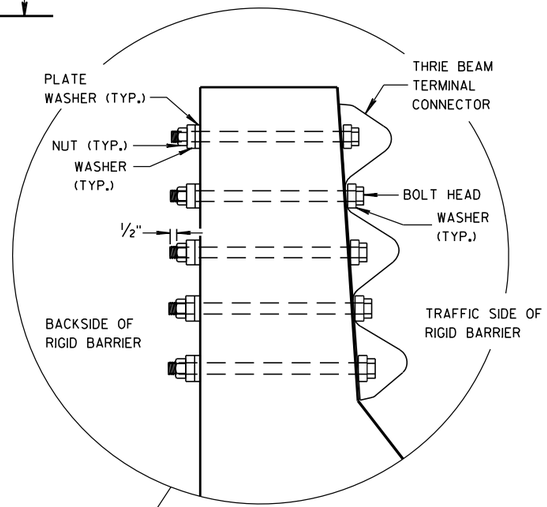
BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325, A449 AND GALVANIZED PER STANDARD SPECIFICATIONS 614.

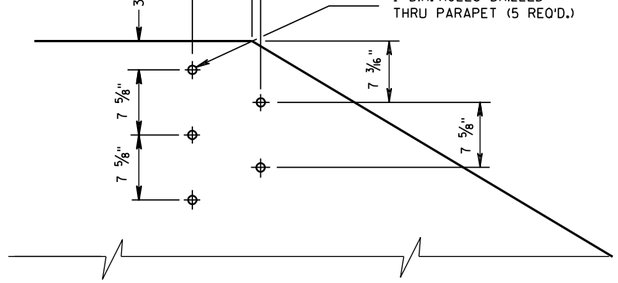
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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 TERMINAL CONNECTOR. 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.

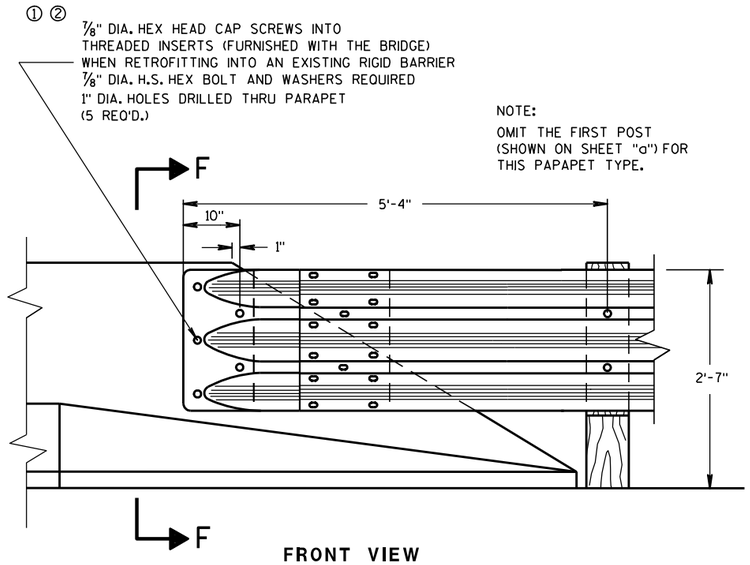
③ W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POST WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.

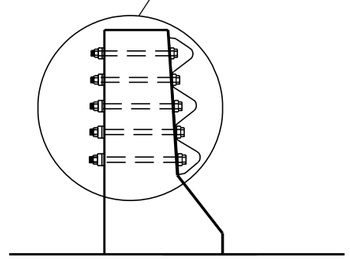




DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION F-F

THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SLOPED END PARAPETS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012 — DATE
/S/ Jerry H. [illegible] — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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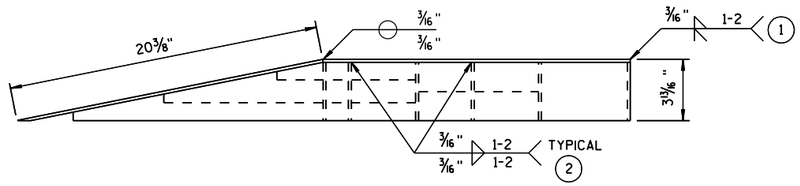

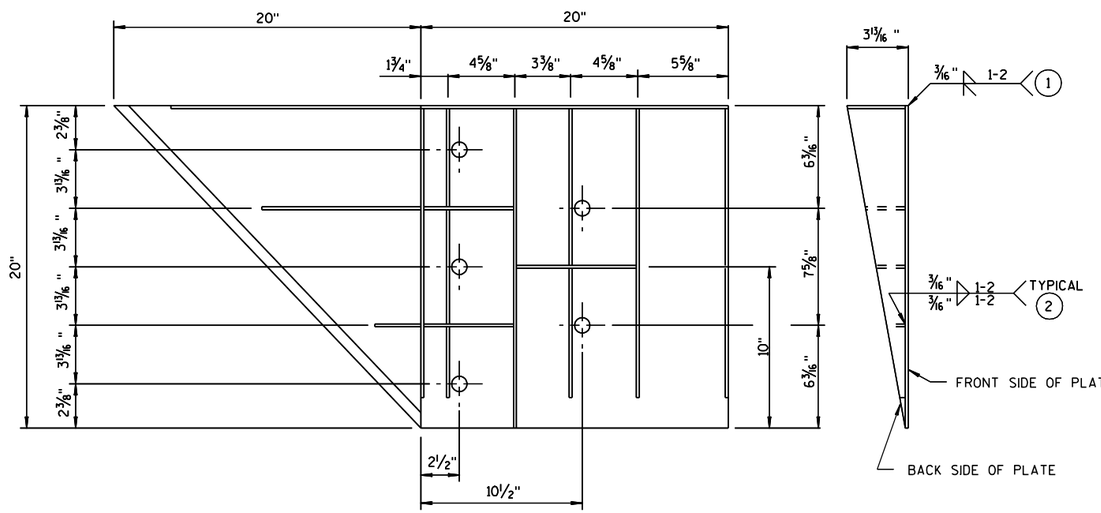

WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(1) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(2) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".

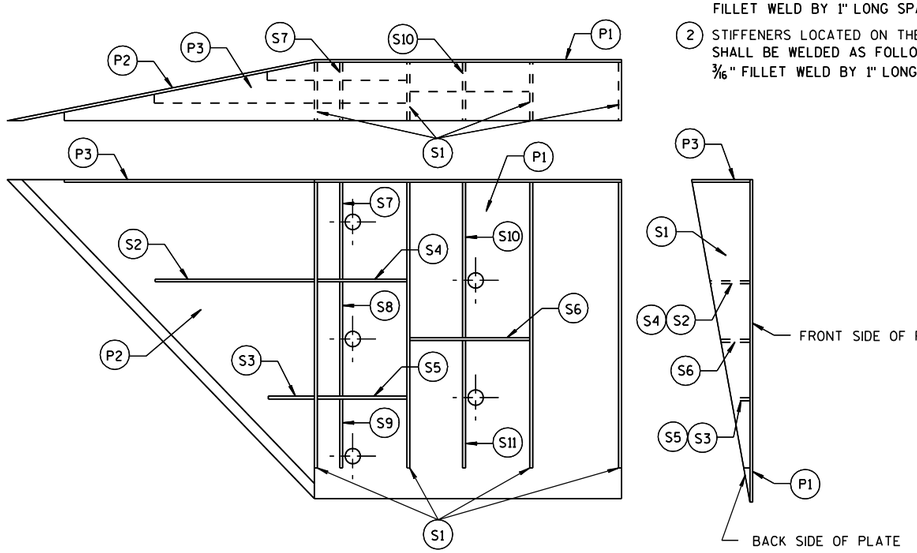

PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

STEEL THRIE BEAM STRUCTURE APPROACH

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTOR PLATE DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 20-11g

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S.D.D. 14 B 20-11g

BILL OF MATERIALS

NOTE NO.	QTY.	DESCRIPTION
(1)	4	WOOD BREAKAWAY TERMINAL POST: 5½" X 7½" X 3'-9"
(2)	**	STEEL TUBE: OPTION 1 - QUANITY OF 4 TS 8" X 6" X 0.188", 4'-6" LONG OR OPTION 2 - QUANITY OF 2 TS 8" X 6" X 0.188", 6'-0" AND 2 TS 8" X 6" X 0.188", 4'-6" LONG
(3)	2	SOIL PLATE: 2'-0" X 1'-6" X ¼" **
(4)	4	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
(5)	6	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
(6)	1	PIPE SLEEVE: 2" X 5 ½" STANDARD PIPE
(7)	1	BEARING PLATE
(8)	1	BCT CABLE ASSEMBLY
(9)	1	CABLE ANCHOR BOX
(10)	1	STRUT & YOKE
(11)	1	STEEL PLATE BEAM, END PANEL 12 GA. 13'-6½" LONG FOR SKT-350, ET-2000 AND ET-2000 PLUS
(12)	3	STEEL PLATE BEAM: 12 GA. 13'-6½"
(13)	1	ET-2000/ET-2000 PLUS GUARDRAIL EXTRUDER OR SKT-350 IMPACT HEAD: AS FURNISHED BY MANUFACTURER
(14)	1	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
(15)	1	E.A.T. MARKER POST

GENERAL NOTES

FOLLOW MANUFACTURE'S BOLTING RECOMMENDATIONS. IF NONE ARE AVAILABLE, INSTALL ⅝" ø X 1'-6" BUTTON HEAD BOLTS AT ALL POSTS EXCEPT FOR POST 1.

(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) THE 13 SLOT FIRST RAIL PANEL MAY BE USED IN LIEU OF THE 3 SLOT RAIL PANEL ON SKT-350 ONLY.

(D) THE TOP OF THE STEEL TUBE ON POSTS 1 THROUGH 4 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(E) THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST 5 THROUGH 8 SHALL BE ¾" ABOVE THE FINISHED GROUND LINE.

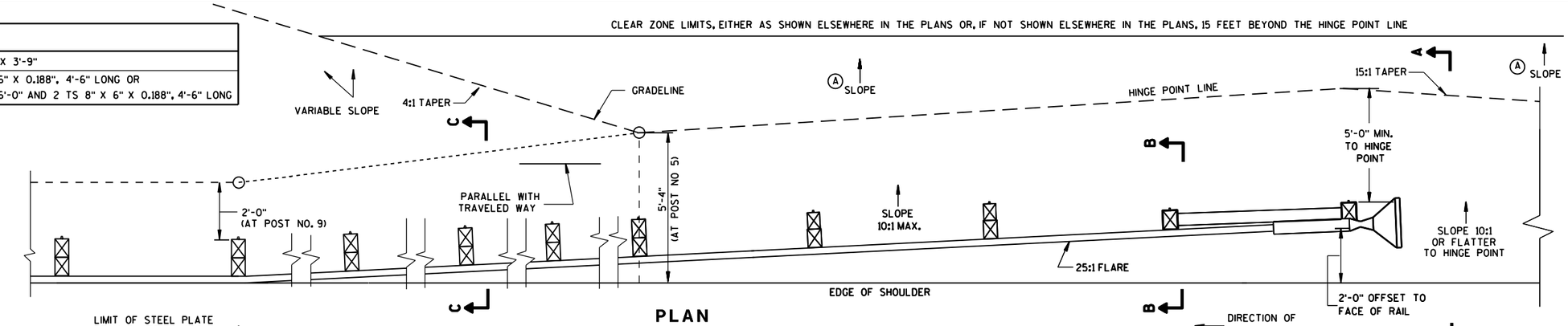
(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

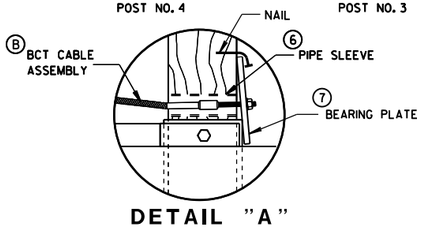
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

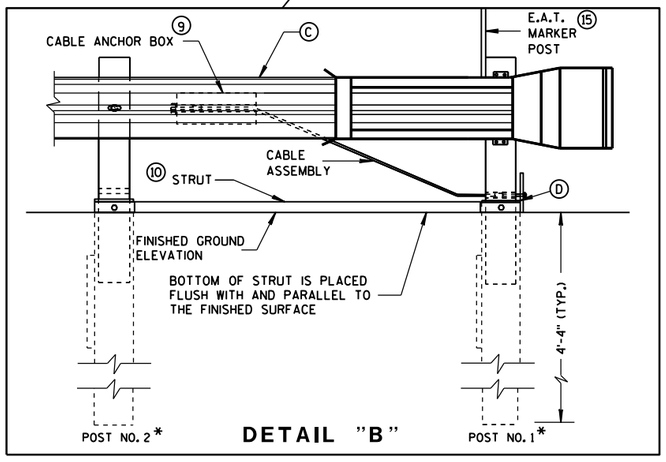
** SDD SHOWS 4 - 54 INCH STEEL TUBES WITH SOIL PLATES INSTALLED ON POST 1 AND POST 2. POST 3 AND 4 DO NOT NEED SOIL PLATES. AN ALTERNATIVE INSTALLATION WOULD CONSIST OF 2 - 72 INCH STEEL TUBES ON POST 1 AND POST 2 AND 54 INCH SOIL TUBES ON POSTS 3 AND 4. THE ALTERNATIVE INSTALLATION DOES NOT REQUIRE SOIL PLATES.



ELEVATION



DETAIL "A"



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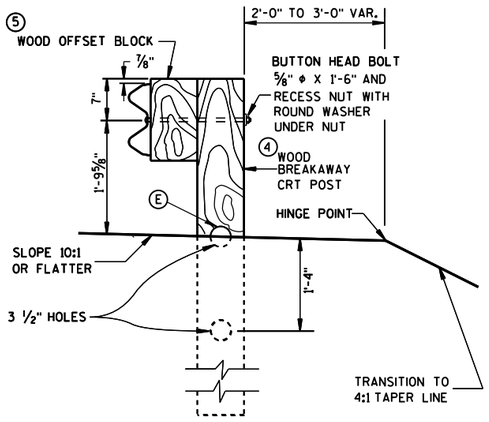
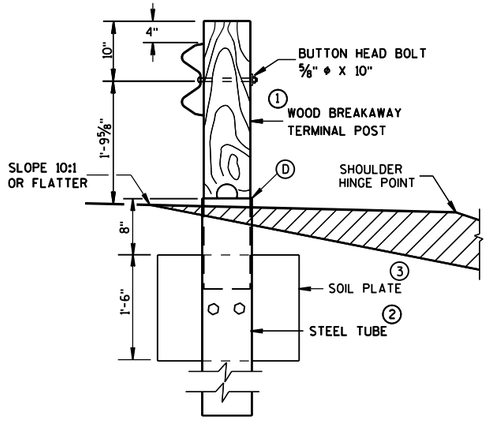
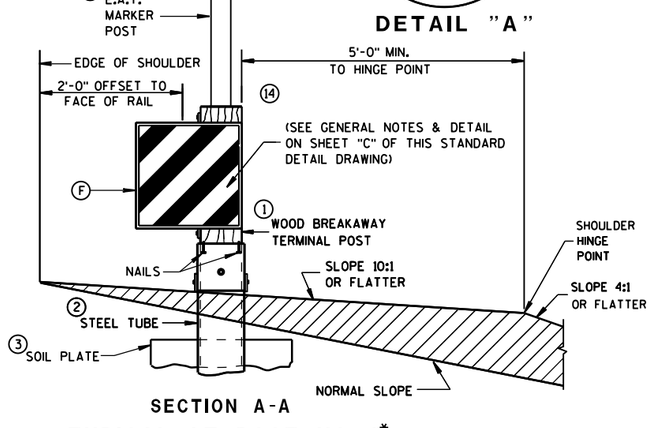


SECTION C-C
TYPICAL AT POST NOS. 6, 8



SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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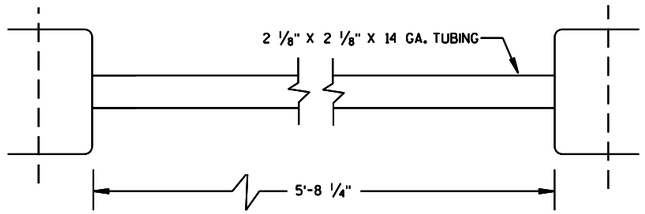
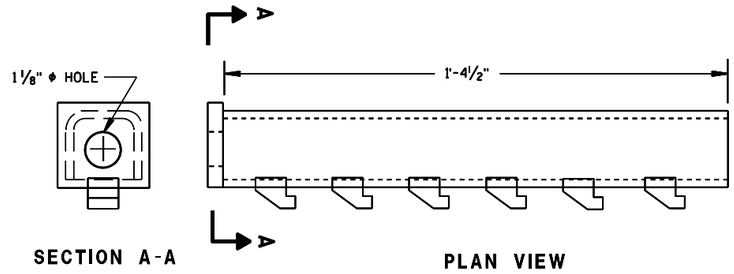
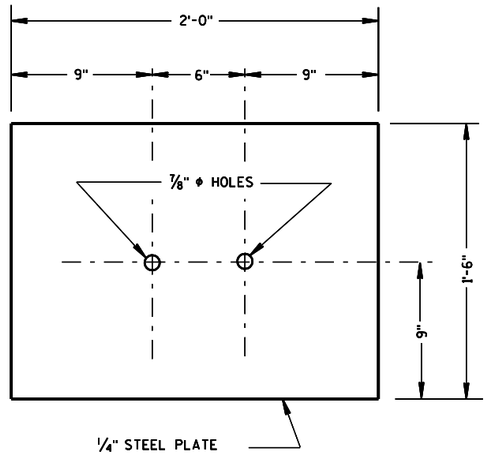
S.D.D. 14 B 24-8a



⑩ STRUT DETAIL (SKT-350)

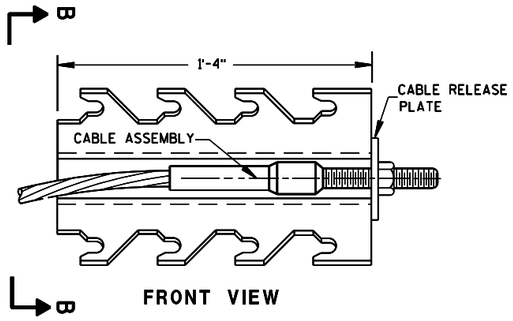


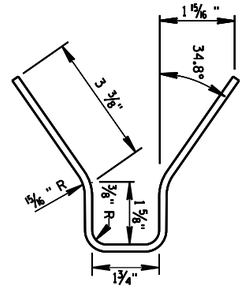
⑨ CABLE ANCHOR BOX (ET-2000/ET-2000 PLUS)



③ SOIL PLATE

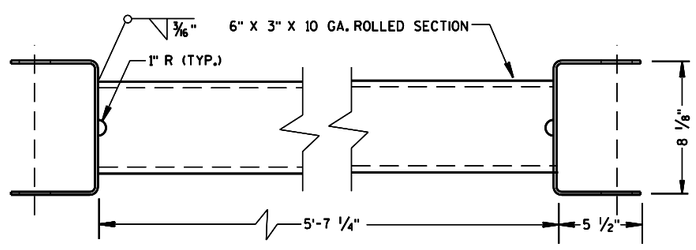
(SKT-350, ET-2000/ET-2000 PLUS)





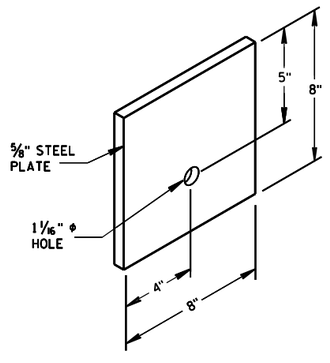
⑨ CABLE ANCHOR BOX (SKT-350)

(SKT-350)



⑩ STRUT DETAIL (ET-2000/ET-2000 PLUS)

(ET-2000/ET-2000 PLUS)



⑦ STEEL BEARING PLATE

(SKT-350, ET-2000/ET-2000 PLUS)

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S.D.D. 14 B 24-8b

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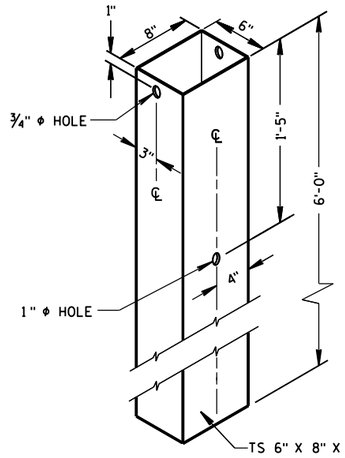
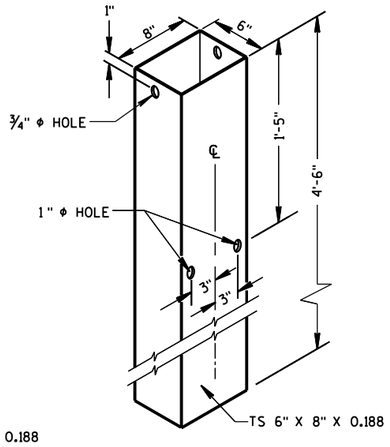
STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

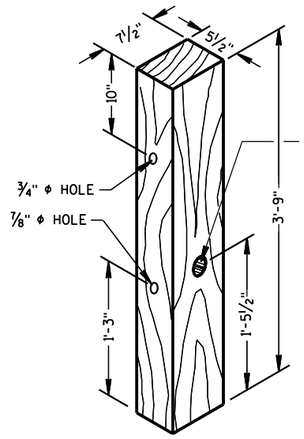
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI



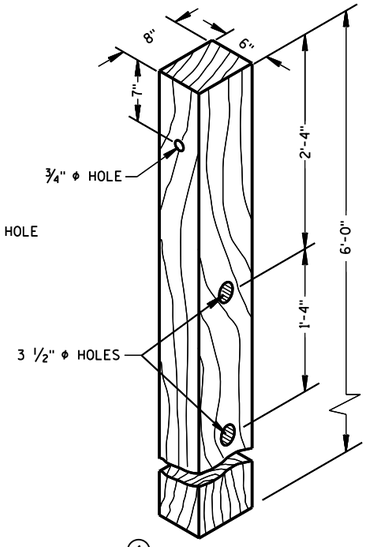
② 72" STEEL TUBE
(POSTS NO. 1-4



② 54" STEEL TUBE
(POSTS NO. 1-4



① TERMINAL POST
(POSTS NO. 1-4



④ CRT POST
(POSTS NO'S 5-8

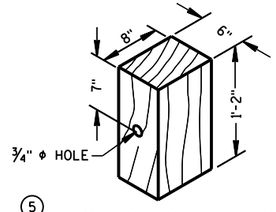
WOOD BREAKAWAY POSTS

GENERAL NOTES

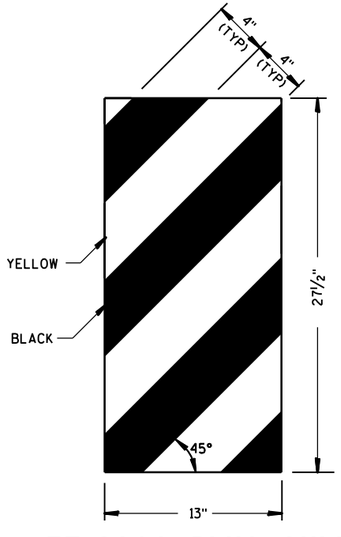
WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 ½" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.

SEE APPROVED PRODUCTS LIST FOR ACCEPTABLE E. A. T. MARKER POST.

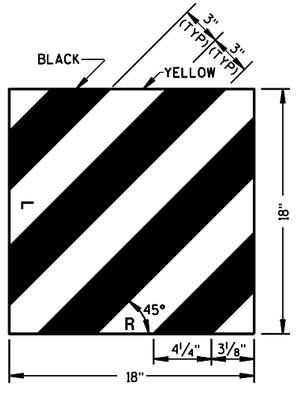
(G) ½" DIA. X 3" LAG BOLT WITH WASHER.



⑤ WOOD OFFSET BLOCK
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2

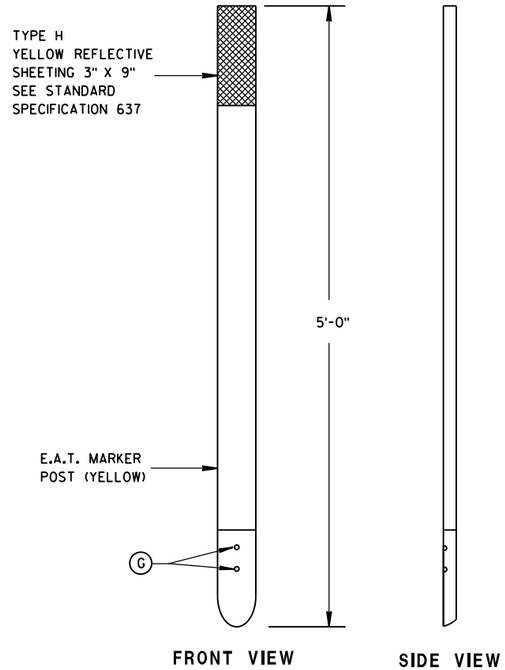


ET-2000 PLUS ONLY

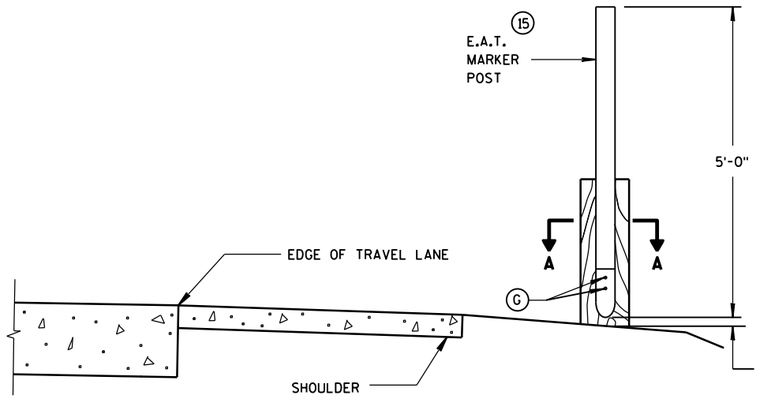


ET-2000 AND SKT-350

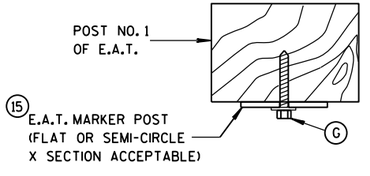
⑭ REFLECTIVE SHEETING DETAILS



⑮ E.A.T. MARKER POST



TYPICAL INSTALLATION OF E.A.T.
MARKER POST BACKSIDE OF POST NO. 1
(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zoaa
ROADWAY STANDARDS ENGINEER
FHWA

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S.D.D. 14 B 24-8c

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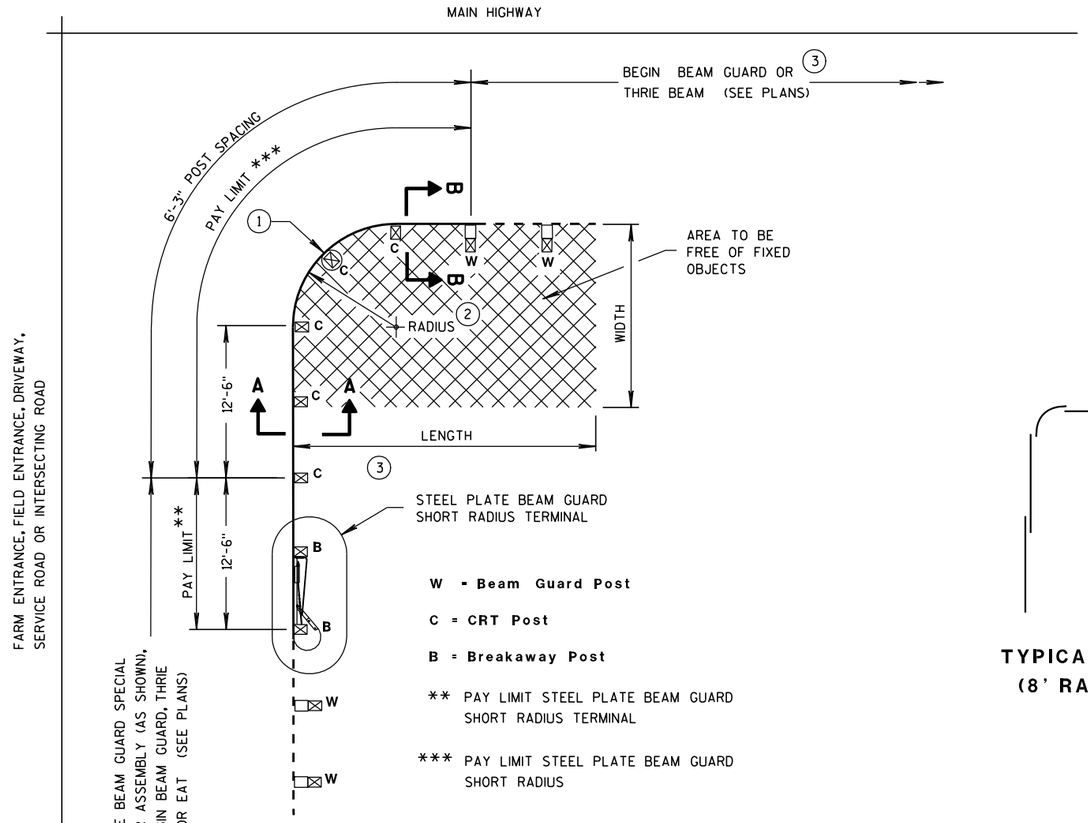
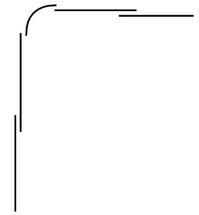
S.D.D. 14 B 24-8c



TYPICAL LAYOUT
(8' RADIUS SHOWN)



TYPICAL LAP SPLICES
(8' RADIUS SHOWN)

GENERAL NOTES

ALL ANGLES, CHANNELS, AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36 AND THE STRUCTURAL TUBING SHALL CONFORM TO ASTM A 500. WELDING SHALL MEET THE CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE ANSI/AWS D1.1. ALL STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 123. PUNCHING, DRILLING, CUTTING, OR WELDING WILL NOT BE PERMITTED AFTER GALVANIZING. FURNISH AND INSTALL HARDWARE PER STANDARD SPECIFICATION 614.2. UNLESS NOTED OTHERWISE.

SHOP BEND CURVED RAIL SECTIONS.

SEE STANDARD DETAIL DRAWING 14 B 15 FOR OTHER DETAIL.

(1) ON THE 8 FOOT RADIUS INSTALLATION, DO NOT INSTALL BUTTON HEAD BOLT AT CENTER CRT POST.

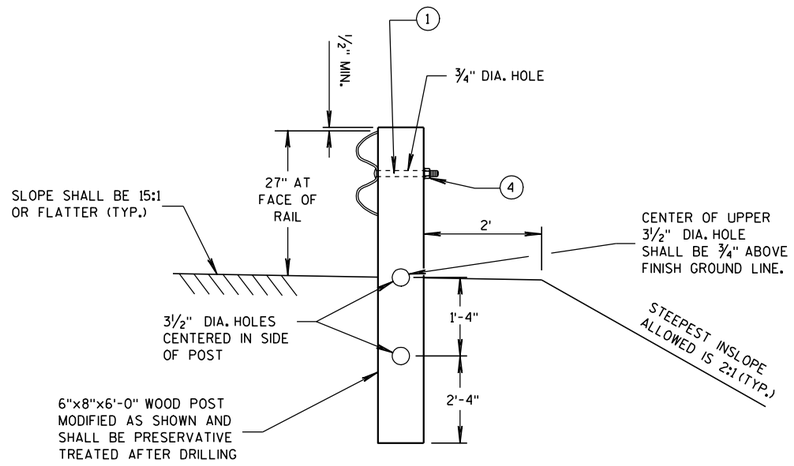
(2) RADIUS FROM 8' - 36'. SEE PLAN.

(3) HEIGHT TRANSITION MAY BE REQUIRED. SEE PLAN OR PROJECT ENGINEER.

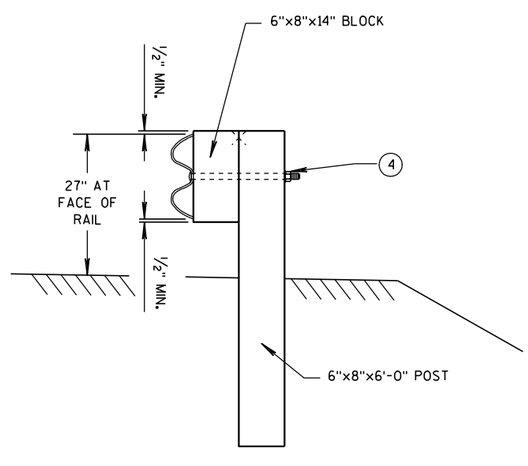
(4) 5/8" ø X 1'-6" BUTTON HEAD BOLT AND RECESS NUT WITH ROUND WASHER UNDER NUT.

RADIUS	NUMBER OF CRT POSTS	*NUMBER AND LENGTH OF CURVED RAILS	REQUIRED AREA FREE OF FIXED OBJECTS (LENGTH x WIDTH)
8'	5	1 at 12.5'	25' x 15'
16'	7	1 at 25'	30' x 15'
24'	9	1 at 25' and 1 at 12.5'	40' x 20'
32'	11	2 at 25'	50' x 20'

* THE NUMBER OF RAILS IS BASED ON A 90° INTERSECTION. SEE PLAN FOR NON 90° INSTALLATIONS.



SECTION A-A
(CRT POST)



SECTION B-B
(BEAM GUARD POST)

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 14 B 27-1a

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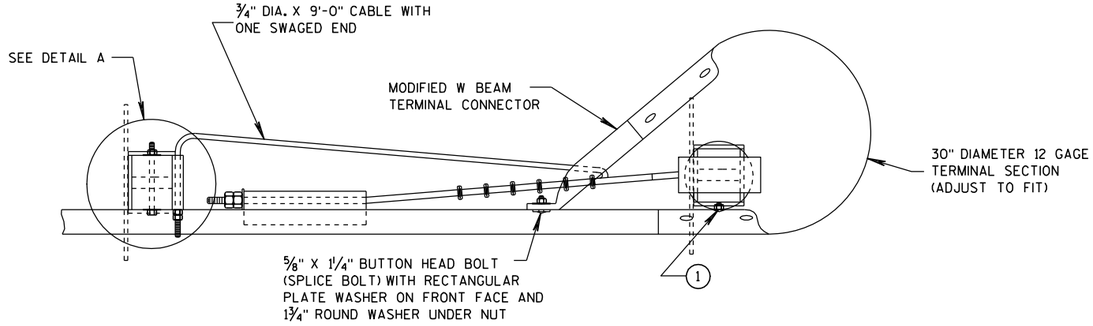
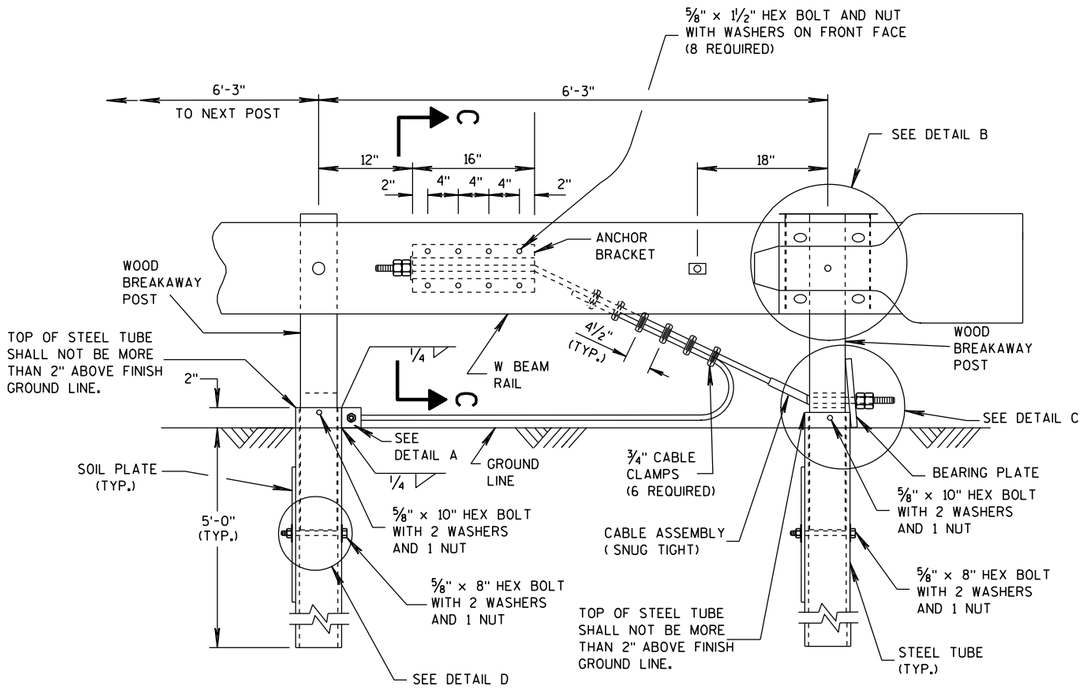
S.D.D. 14 B 27-1a



PLAN VIEW



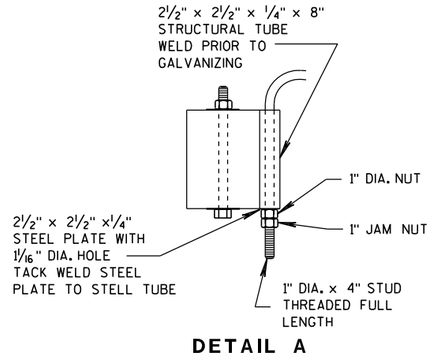
ELEVATION VIEW

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

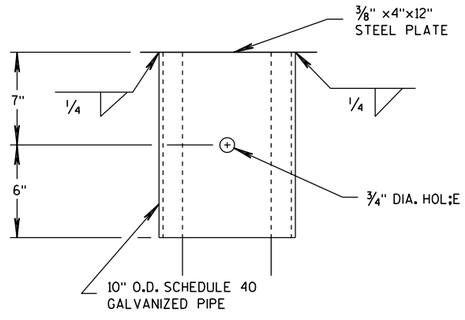
GENERAL NOTES

(1) ATTACH W BEAM RAIL TO THE STEEL PIPE WITH A ⅝" X 2" BUTTON HEAD BOLT WITH NO WASHER. CONNECTION TO THE POST IS NOT REQUIRED.

INSTALL GALVANIZED ¾" (6X19) PREFORMED WIRE OR INDEPENDENT WIRE ROPE CORE CONFORMING TO AASHTO M 30. MANUFACTURE WIRE ROPE OUT OF IMPROVED PLOW STEEL WITH A MINIMUM BREAKING STRENGTH OF 42,800 PSI.



DETAIL A



DETAIL B

(BEAM GUARD AND TERMINAL SECTION NOT SHOWN)

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 27-1b

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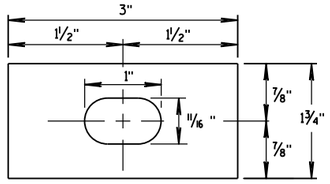
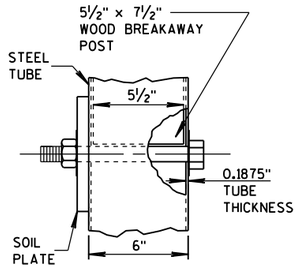
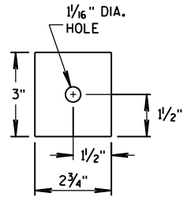
S.D.D. 14 B 27-1b



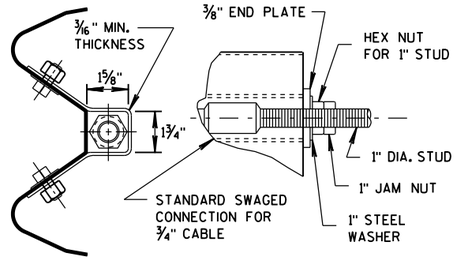
RECTANGULAR PLATE WASHER



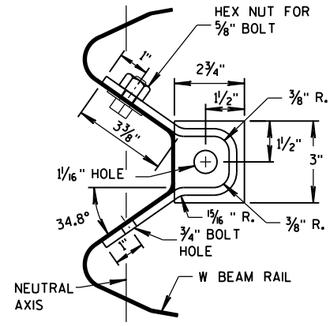
DETAIL D



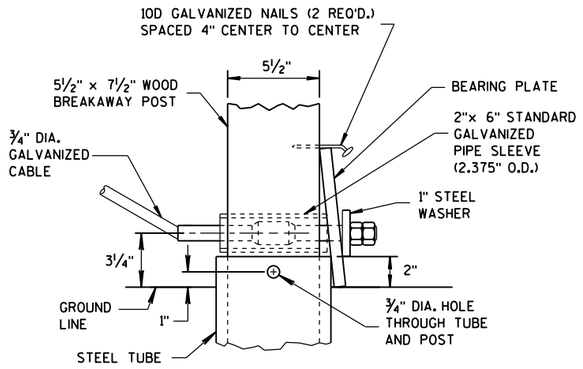
END PLATE



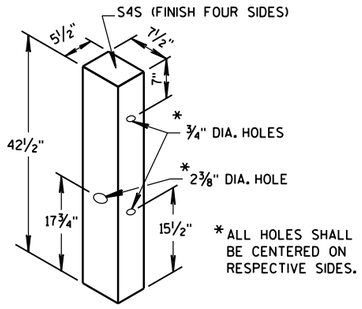
SECTION C-C
(END PLATE REMOVED)



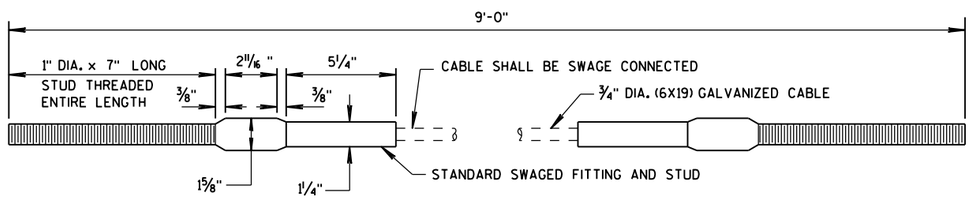
ANCHOR BRACKET



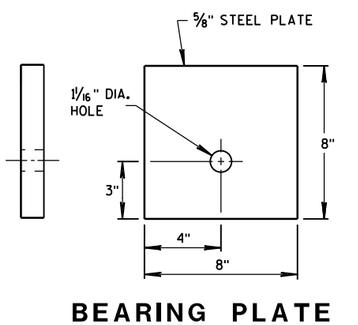
DETAIL C



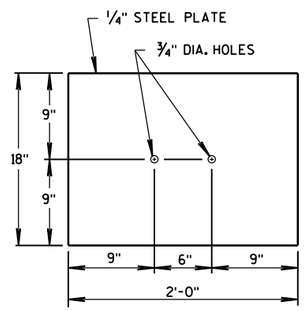
WOOD BREAKAWAY POST



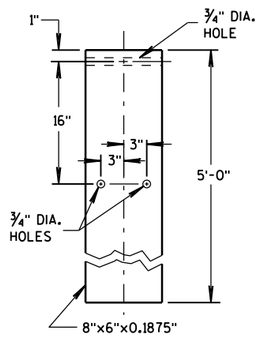
CABLE ASSEMBLY



BEARING PLATE



SOIL PLATE



STEEL TUBE

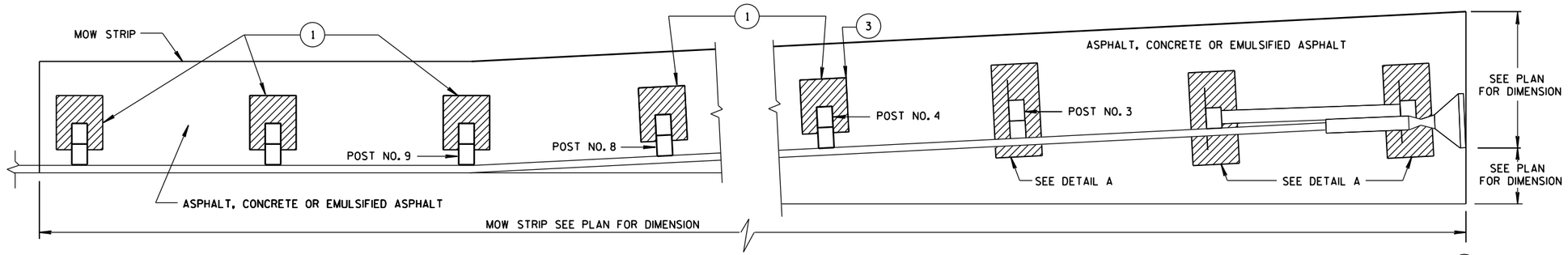
STEEL PLATE BEAM GUARD
SHORT RADIUS TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/18/08 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

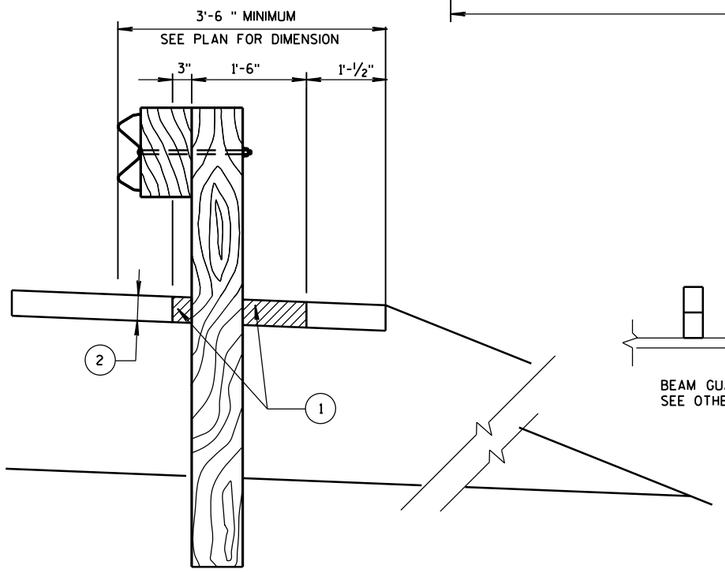
6

S.D.D. 14 B 27-1c

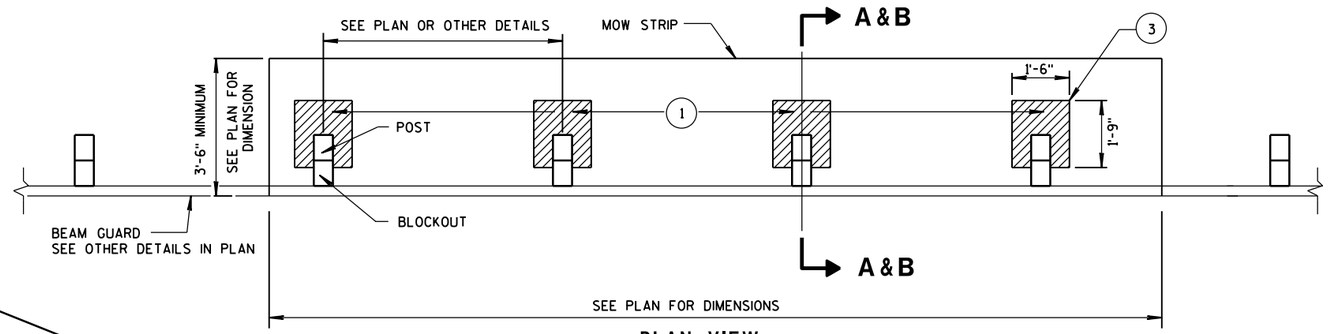


PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABORBING TERMINAL

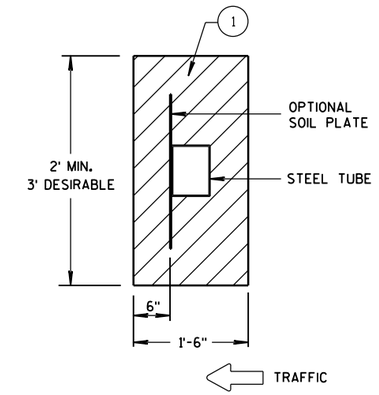


SECTION A-A

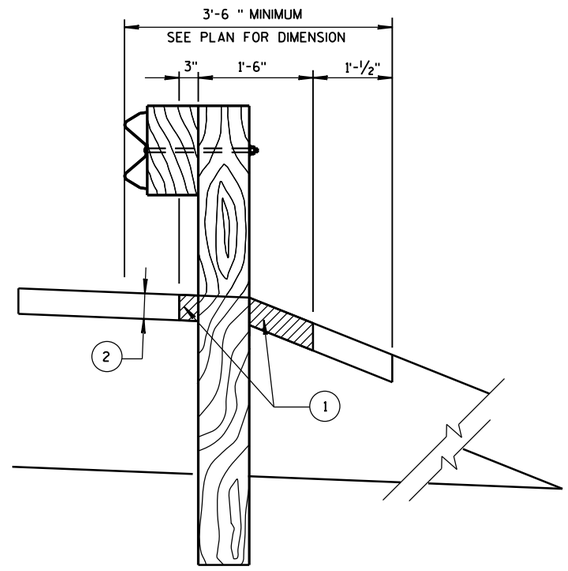


PLAN VIEW

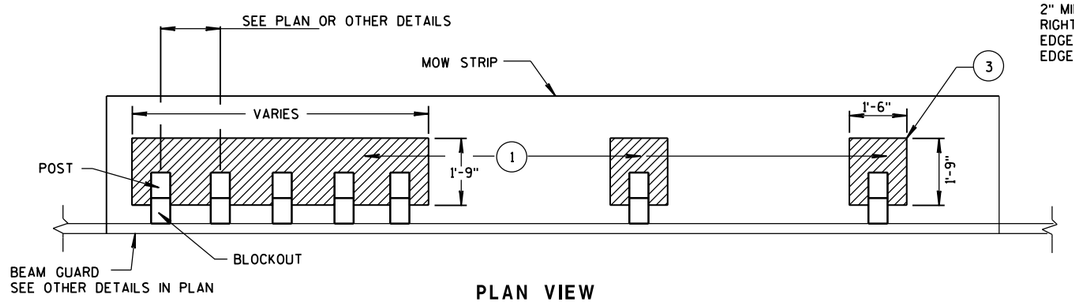
MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT



DETAIL A

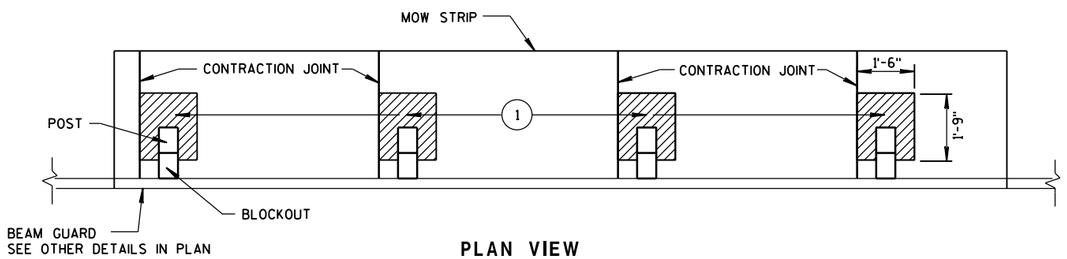


SECTION B-B



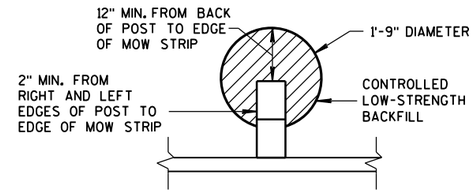
PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP



ALTERNATIVE HMA
MOW STRIP DESIGN

(1) CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.

(2) DEPTH OF MOW STRIP:
ASPHALT - 4"
CONCRETE - 4"
EMULSIFIED ASPHALT - 1" OR LESS

(3) FOR EMULSIFIED ASPHALT MOW STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS.)

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 14 B 28-3

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.

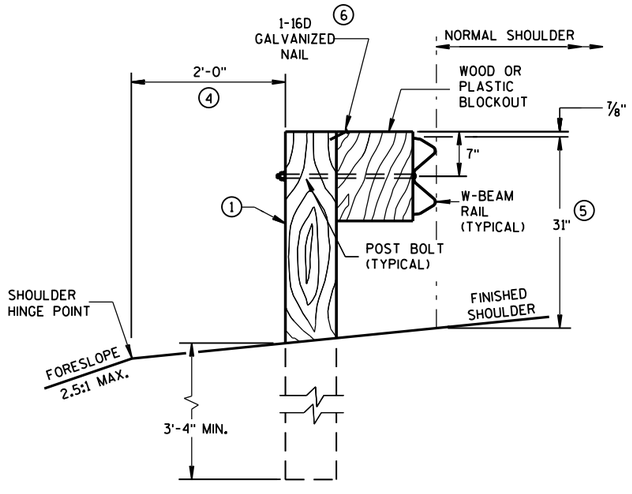
(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

(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).

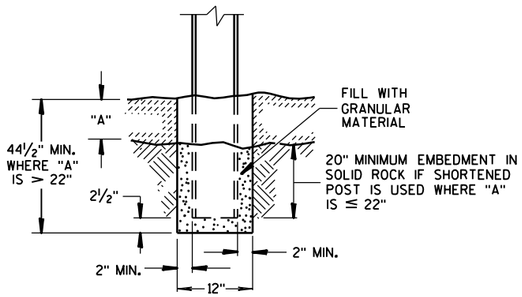
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

(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.



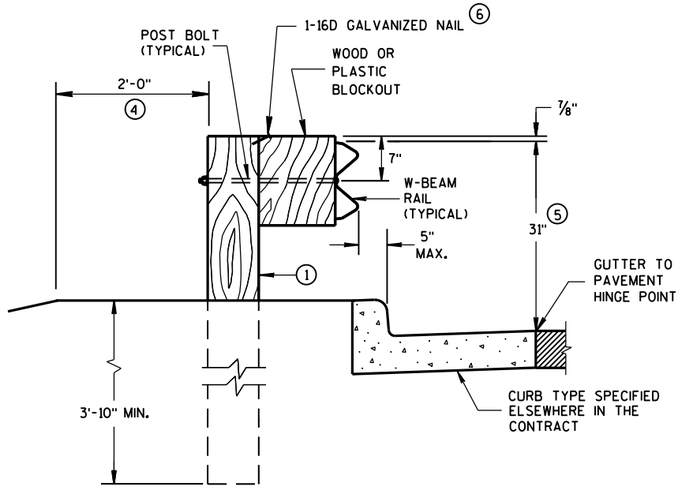
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



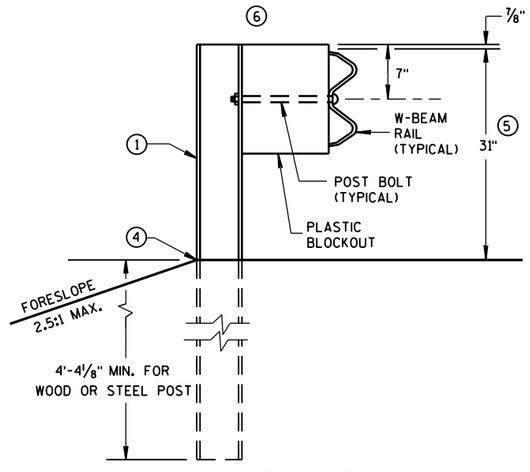
END VIEW

SETTING STEEL OR WOOD POST IN ROCK (3)



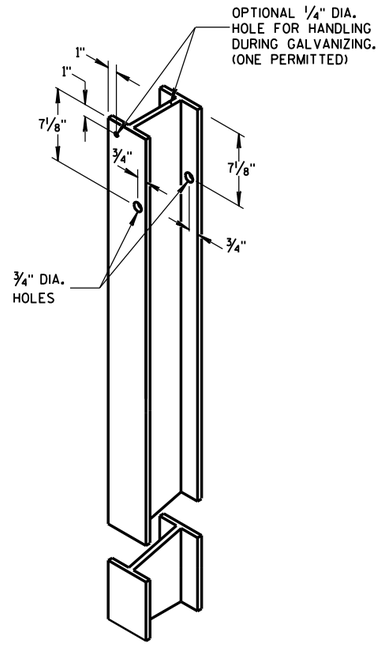
END VIEW

LOCATED ALONG A CURBED ROADWAY

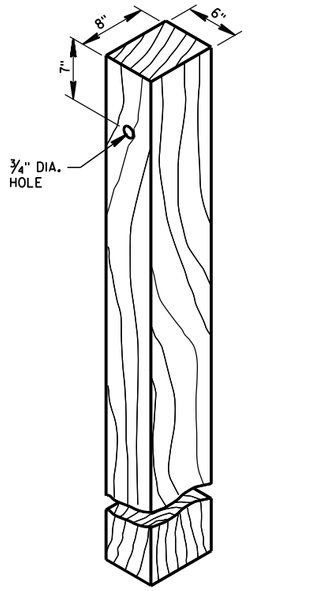


END VIEW

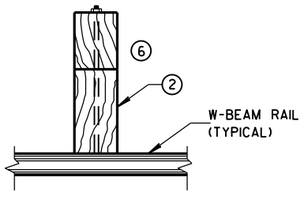
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



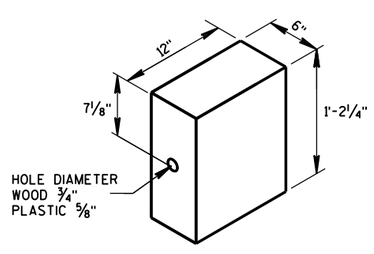
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) (1)



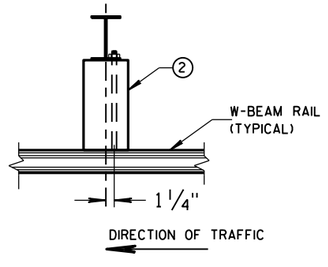
WOOD POST
(6" X 8") NOMINAL (1)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT (2)

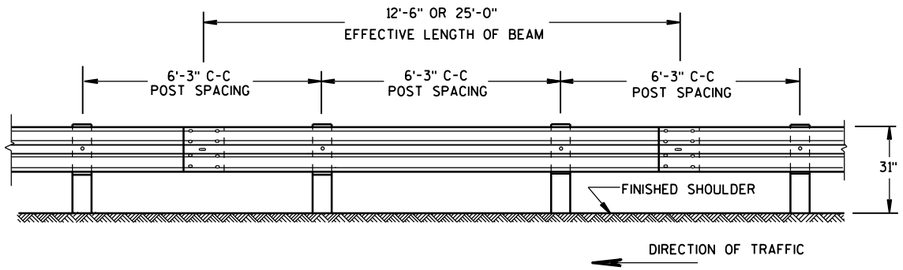


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

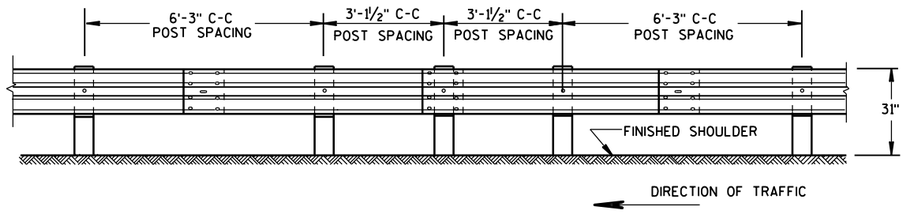
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 42-3a



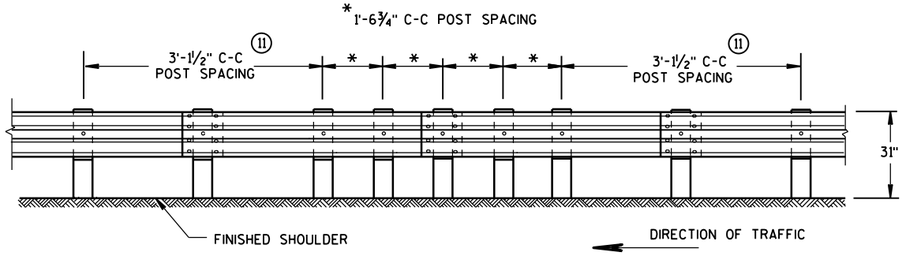
FRONT VIEW

POST SPACING STANDARD INSTALLATION



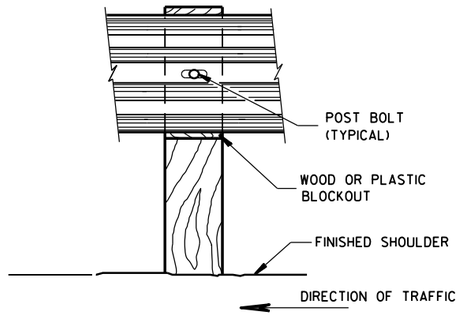
FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

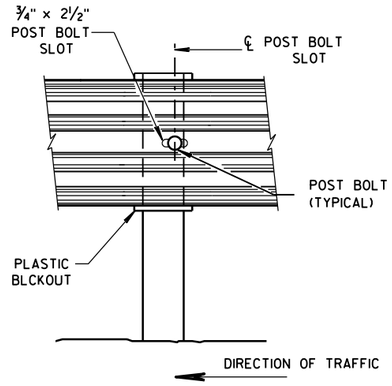


FRONT VIEW

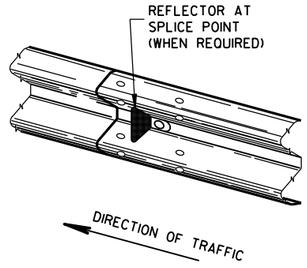
QUARTER POST SPACING (QS)

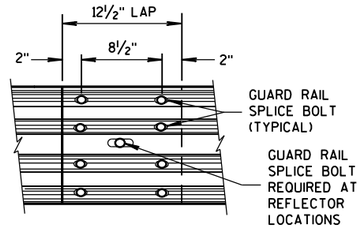


FRONT VIEW AT WOOD POST

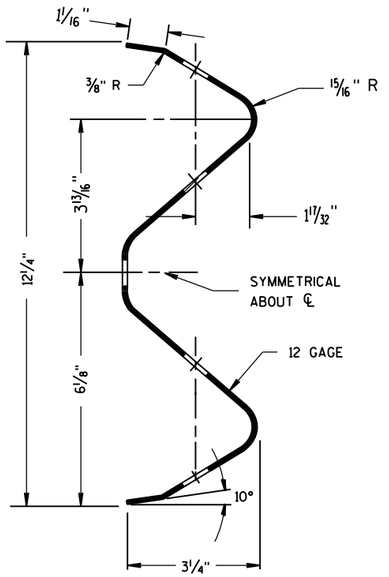


FRONT VIEW AT STEEL POST

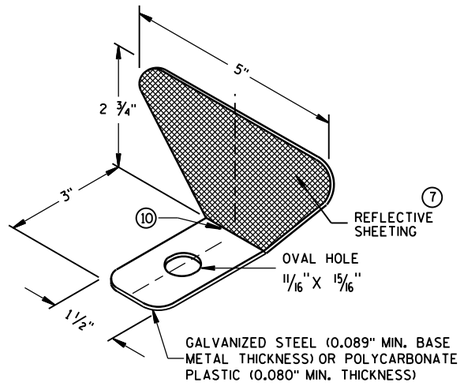




FRONT VIEW
MID-SPAN BEAM SPLICE



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION ⑦

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 ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

REFLECTOR SPACING ⑧

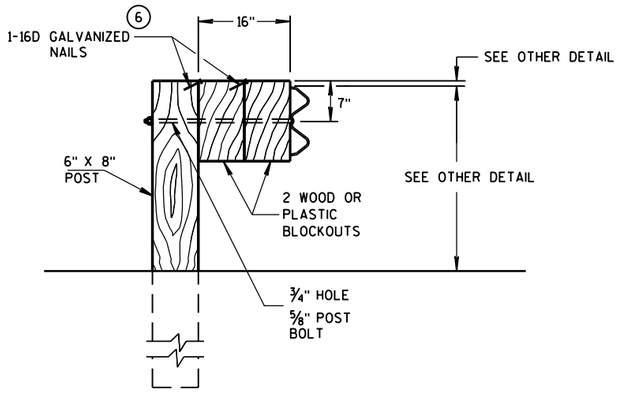
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 ⑨ 1	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 2 ⑩	3

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

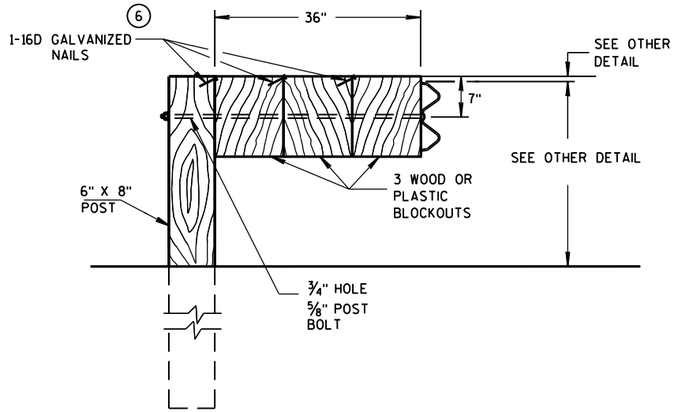
6

S.D.D. 14 B 42-3b



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.

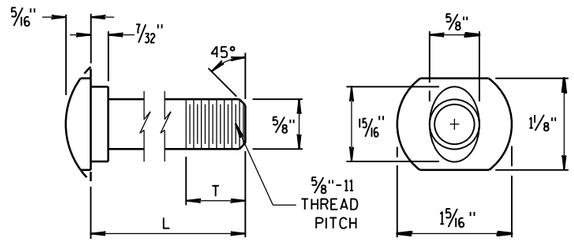


DETAIL FOR 36" BLOCKOUT DEPTH

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.

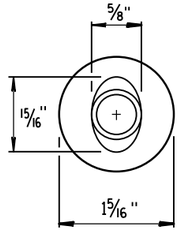
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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.

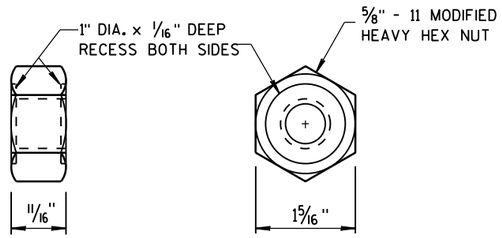


POST BOLT TABLE

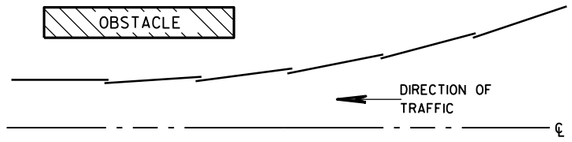
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

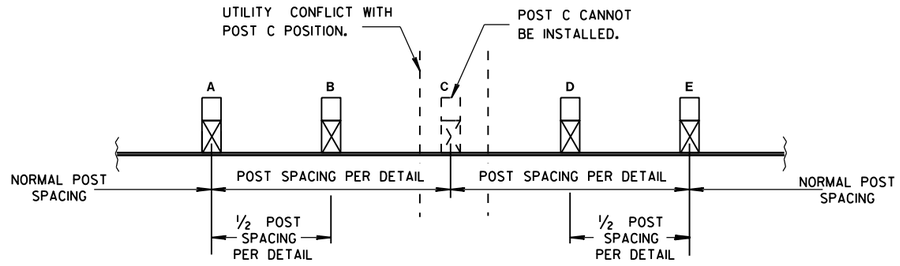


POST BOLT AND RECESS NUT

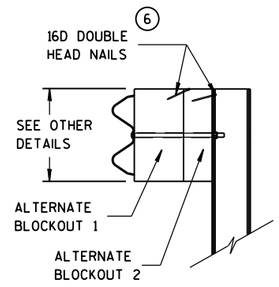


PLAN VIEW

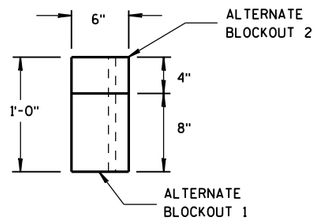
BEAM LAPPING DETAIL



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

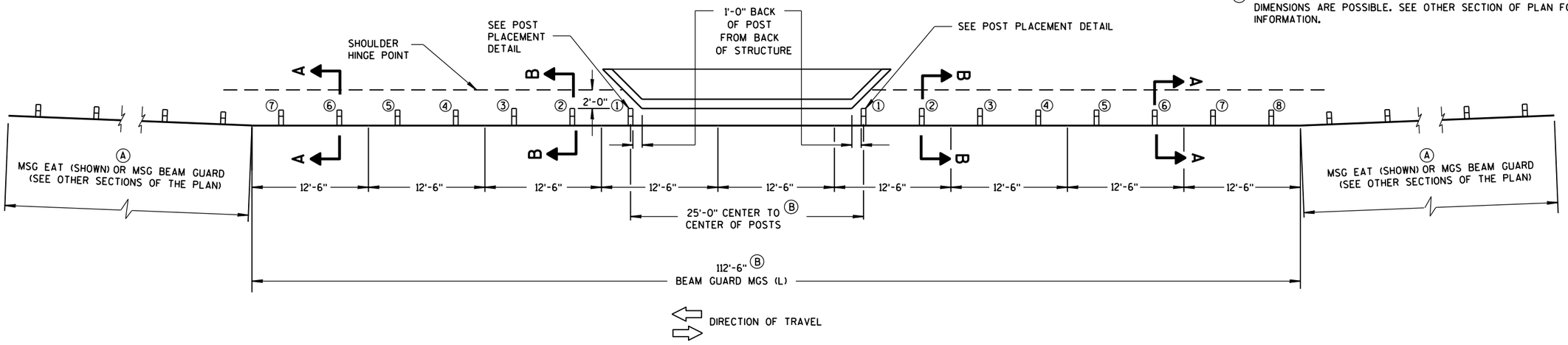
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

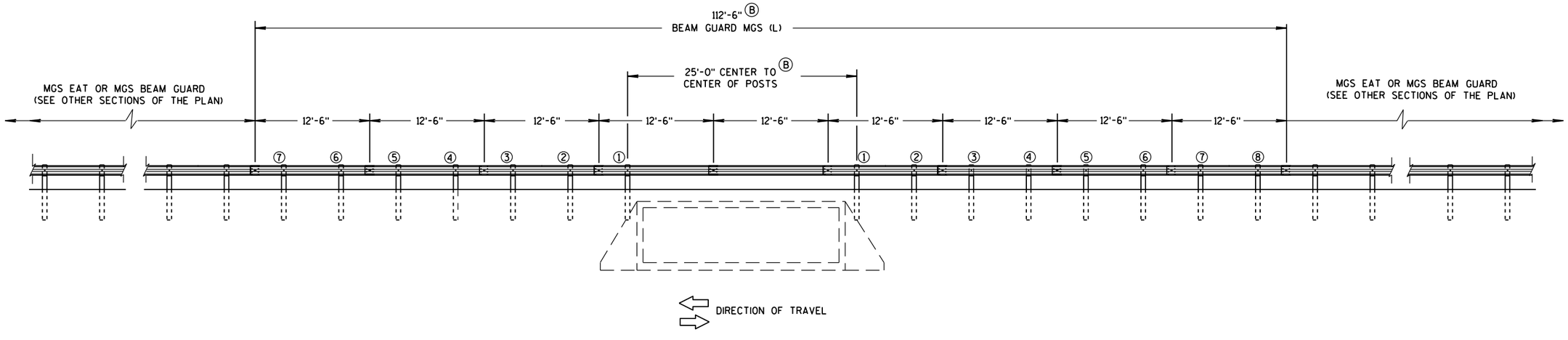
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) TWO-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
STATE OF WISCONSIN DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 43-3a

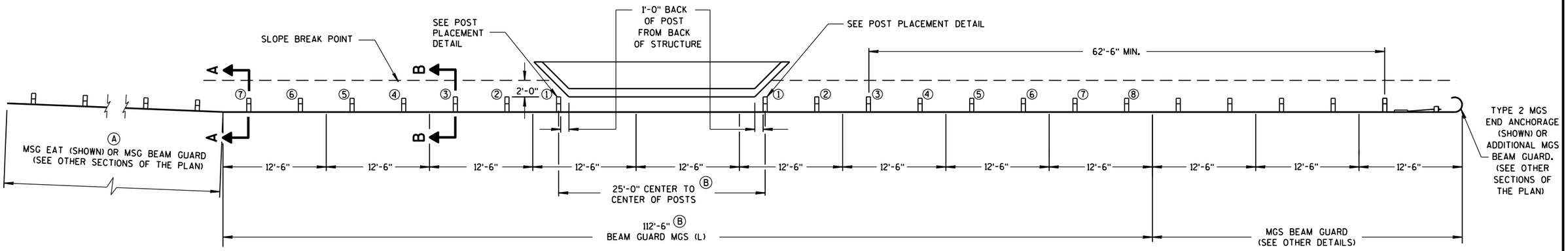
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

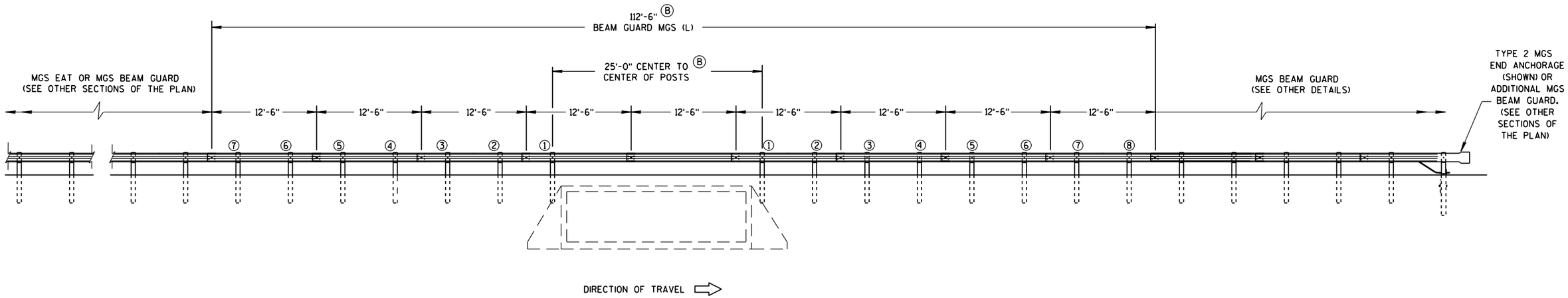
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



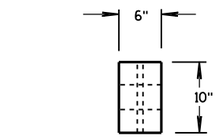
ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) ONE-WAY TRAFFIC

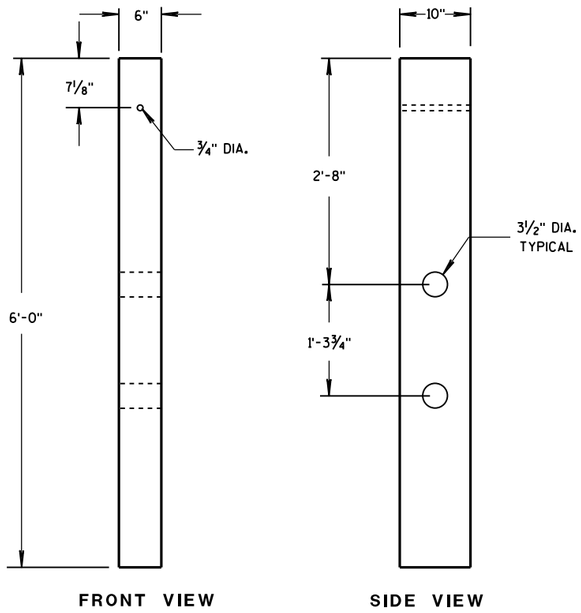
MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPOI	130

6

S.D.D. 14 B 43-3b

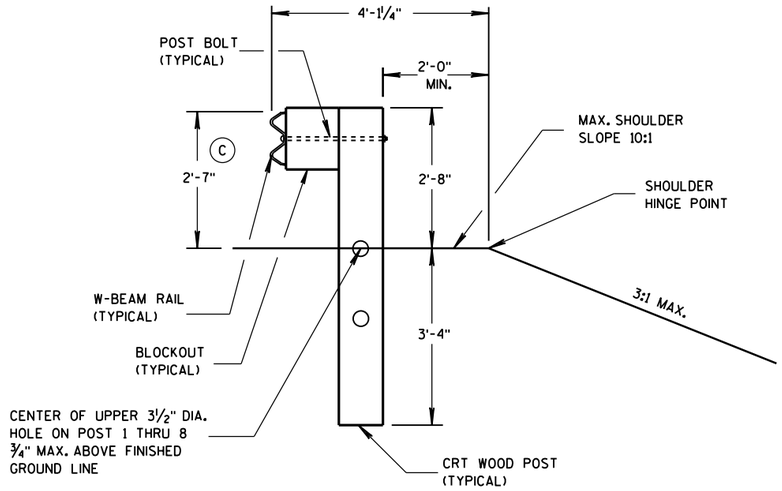


PLAN VIEW



FRONT VIEW SIDE VIEW

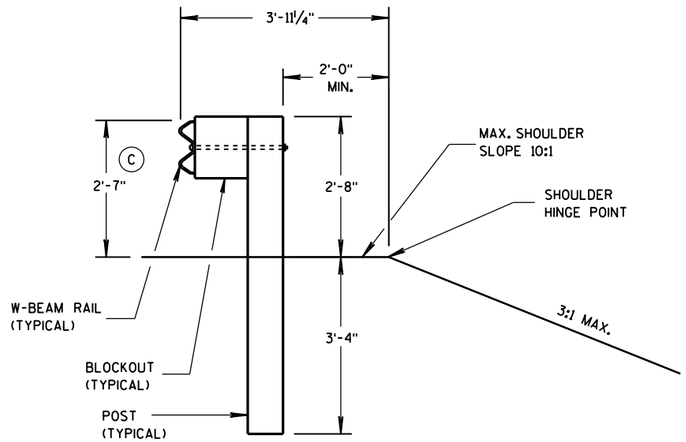
CRT WOOD POST



SECTION B-B

POSTS NO. 1-3

SEE OTHER DETAILS



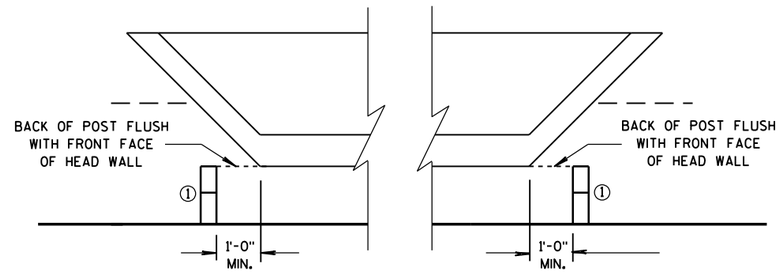
SECTION A-A

POSTS NO. 4-8

SEE OTHER DETAILS

GENERAL NOTES

(C) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



POST PLACEMENT DETAIL

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/10/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 14 B 43-3c

6

S.D.D. 14 B 43-3c

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.

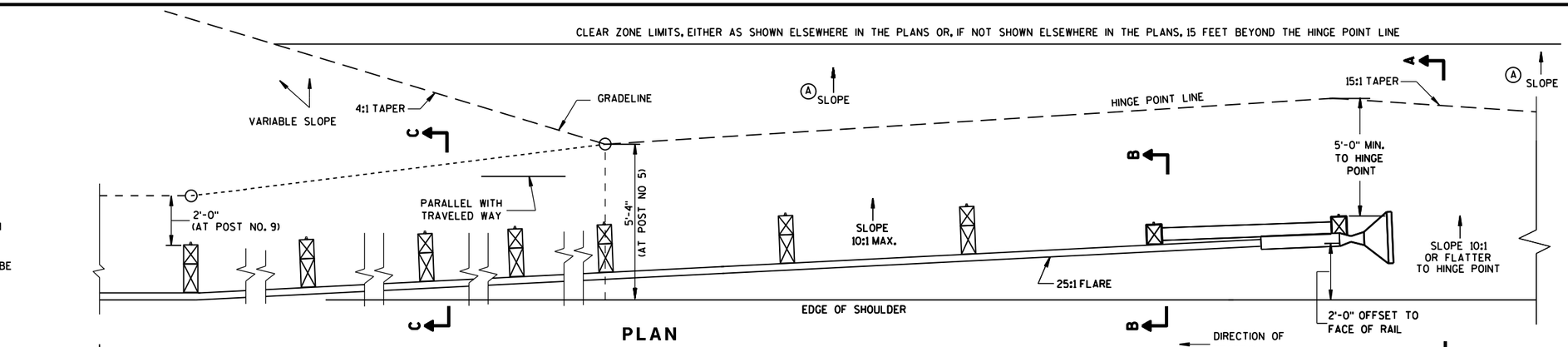
SEE SDD 14B42 FOR MORE INFORMATION.

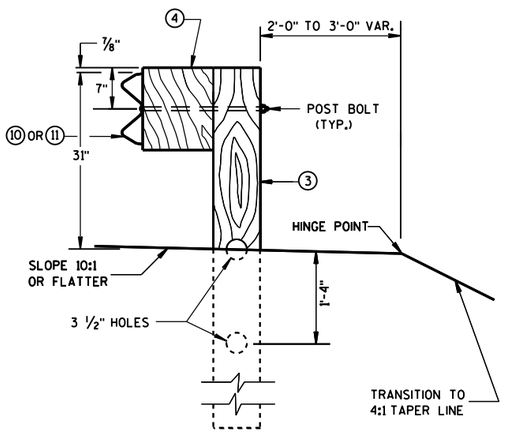
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

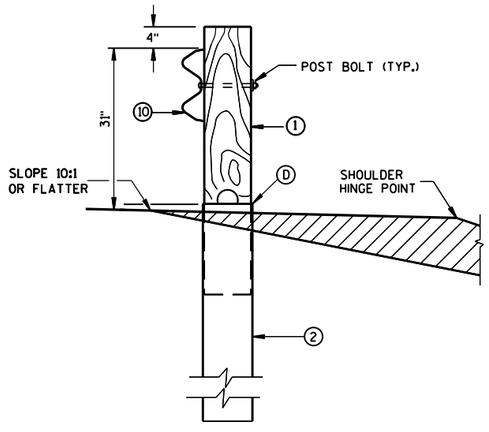
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

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.

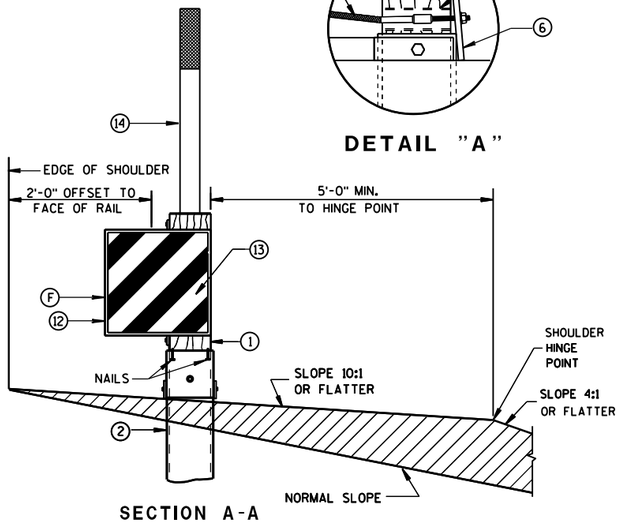




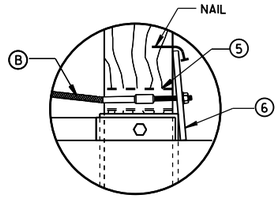
SECTION C-C
TYPICAL AT POST NOS. 3-9



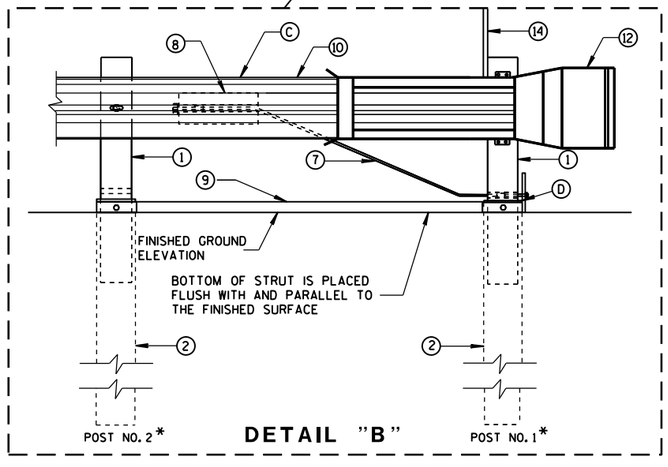
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"



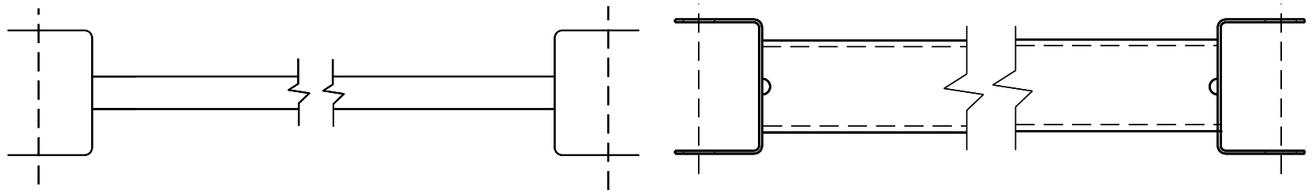
DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

S.D.D. 14 B 44-2a

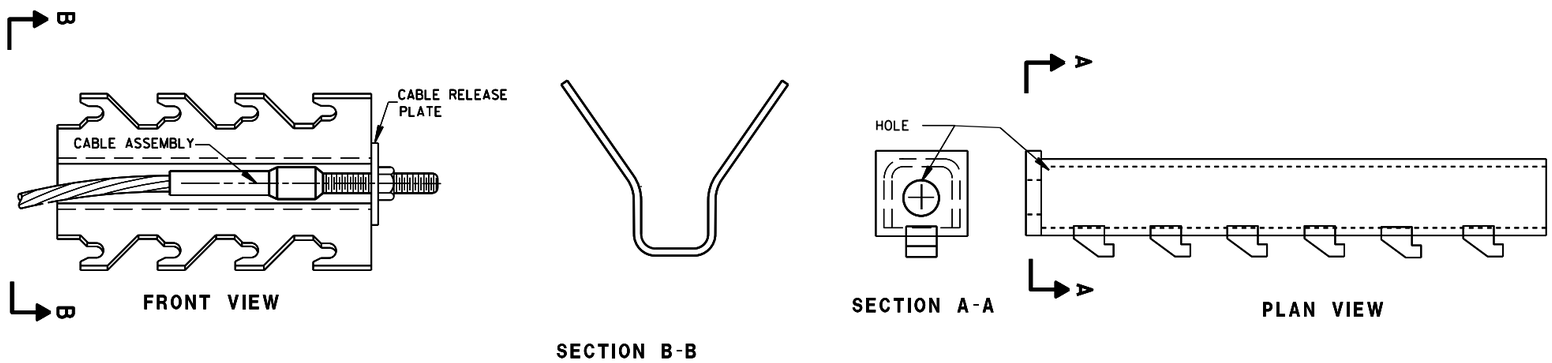
S.D.D. 14 B 44-2a



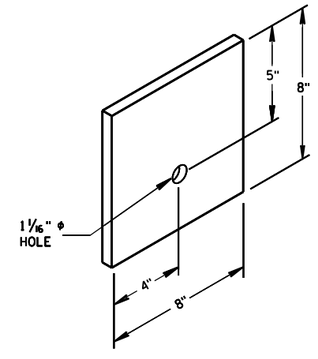
GENERIC GROUND STRUT (9) (H)

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)



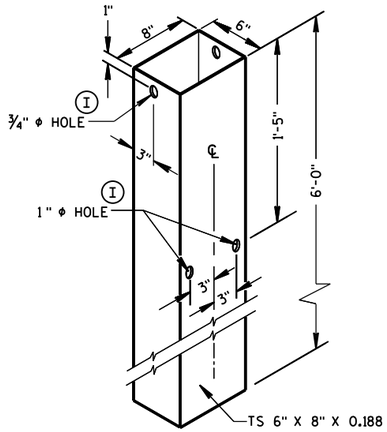
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

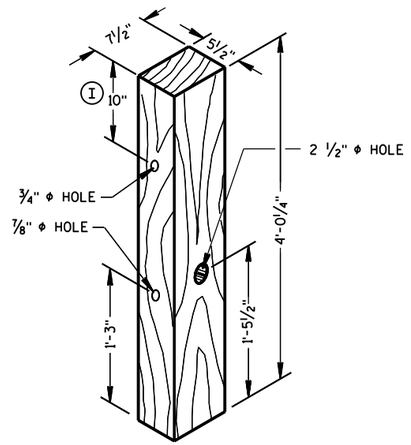
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 44-2b

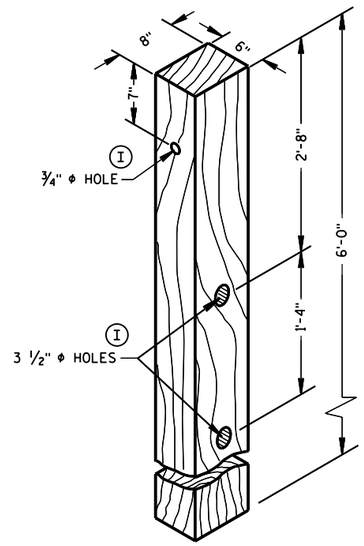


FOUNDATION TUBE (2)



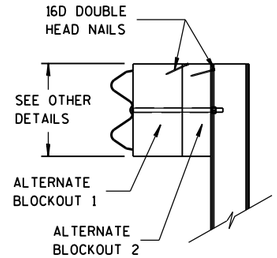
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

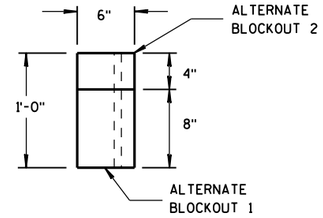


POSTS NUMBER 3-9

WOOD CRT POST (3)

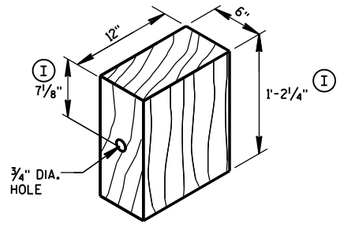


SIDE VIEW



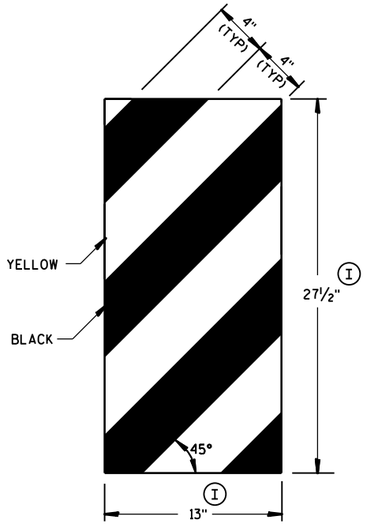
TOP VIEW

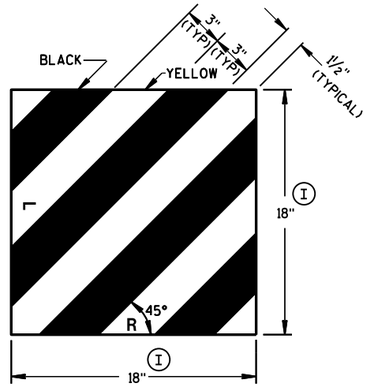
ALTERNATE WOOD BLOCKOUT DETAIL



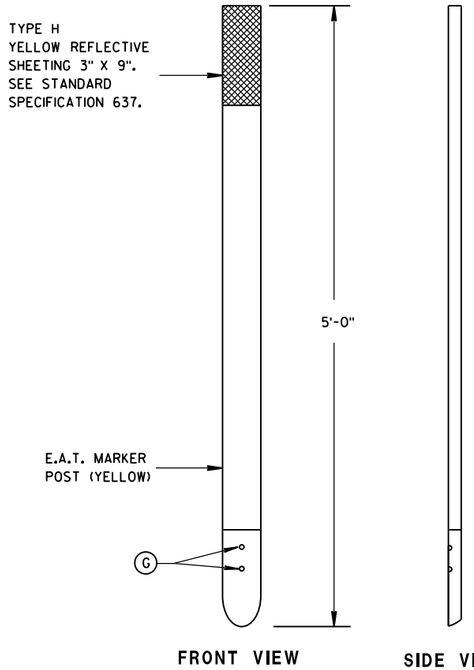
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





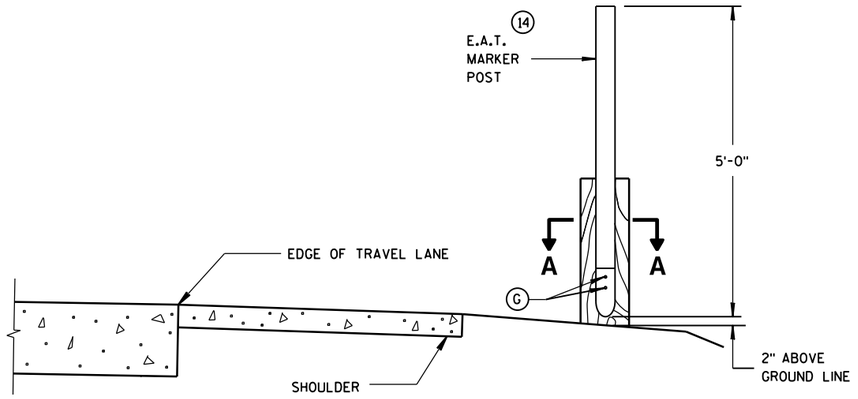
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

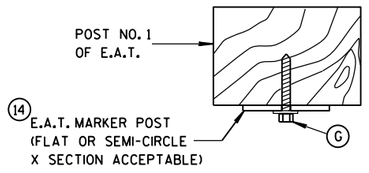
SIDE VIEW

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

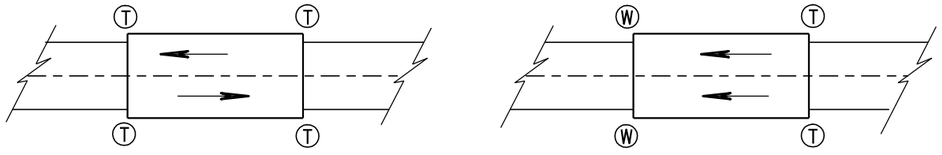
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

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

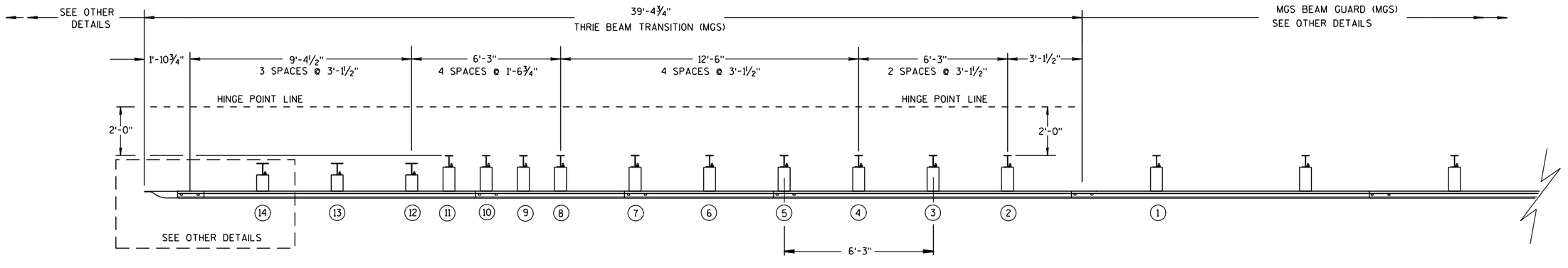
BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3.

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

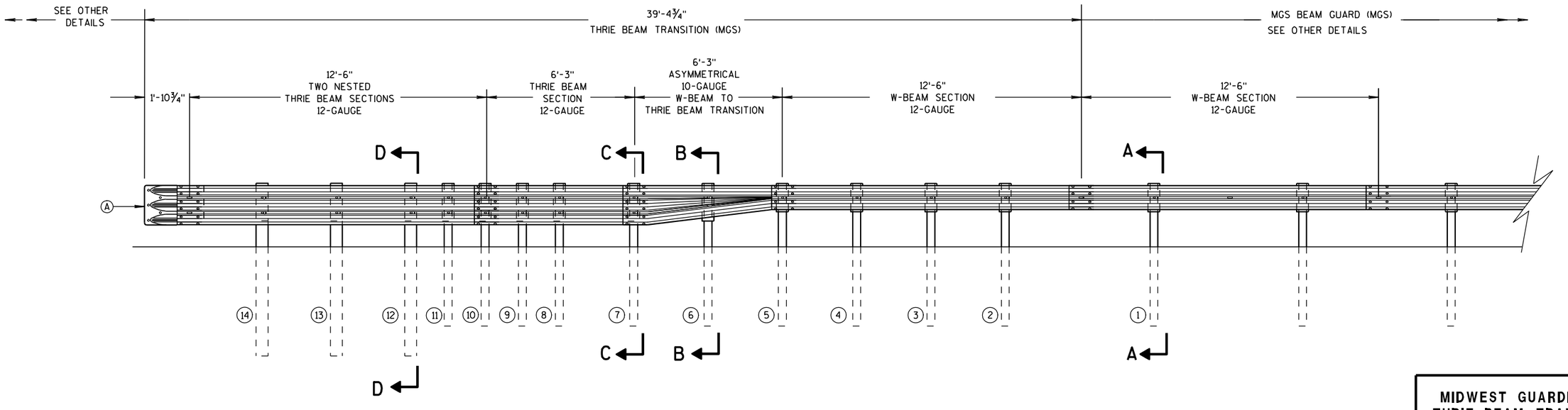
TRANSITION USES STEEL POSTS ONLY.

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

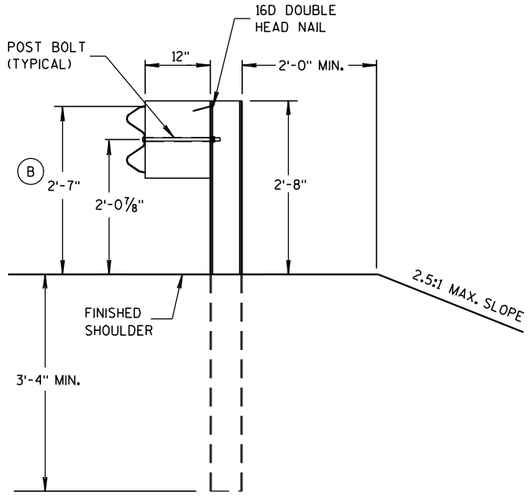
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 45-3a

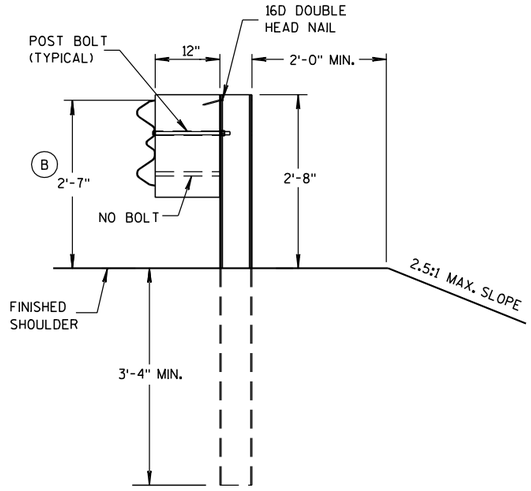
GENERAL NOTES

(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



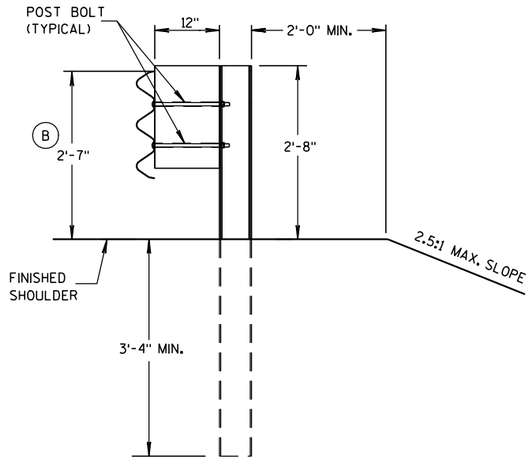
SECTION A-A

POSTS 1-5



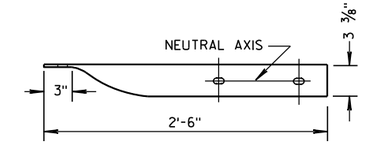
SECTION B-B

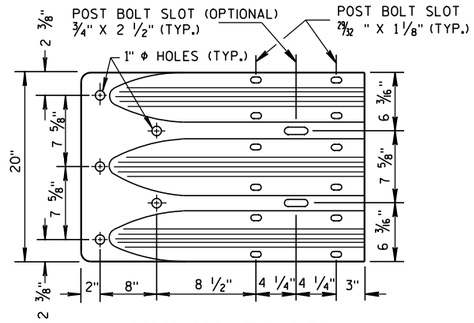
POST 6



SECTION C-C

POSTS 7-11





THRIE BEAM TERMINAL CONNECTOR

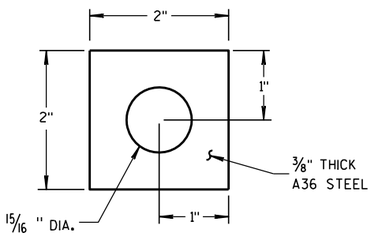
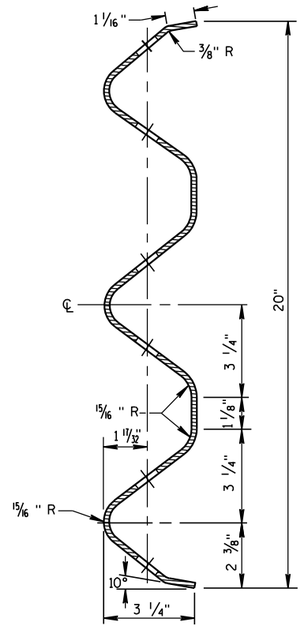
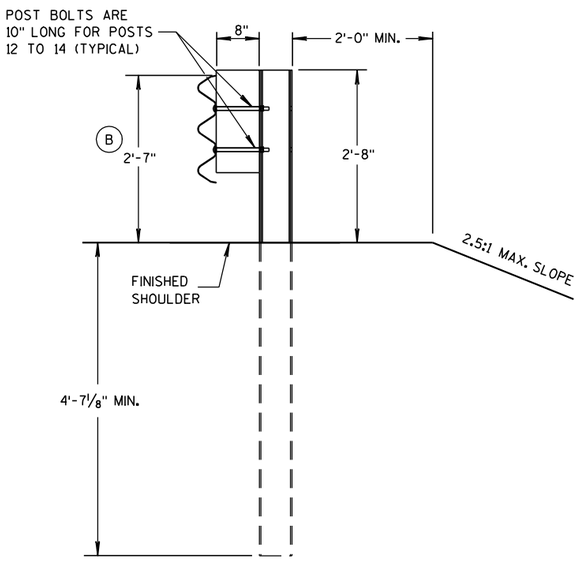


PLATE WASHER DETAIL

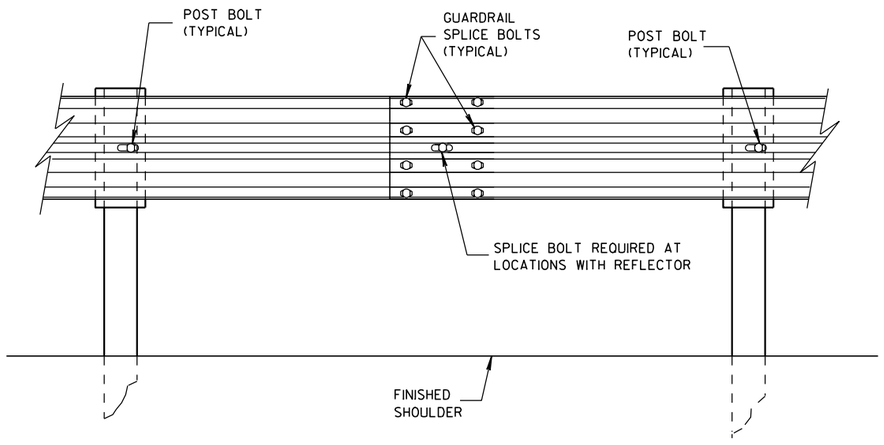


SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION D-D

POSTS 12-14

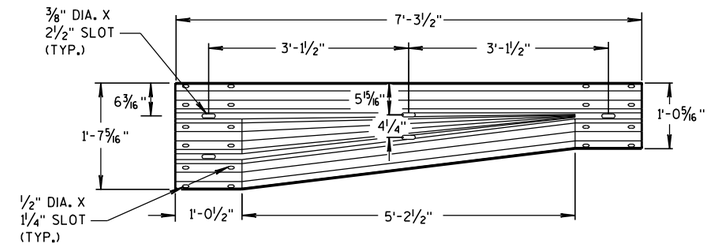


SPLICE DETAIL

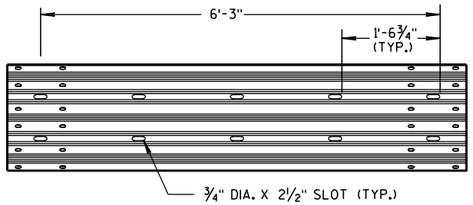
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

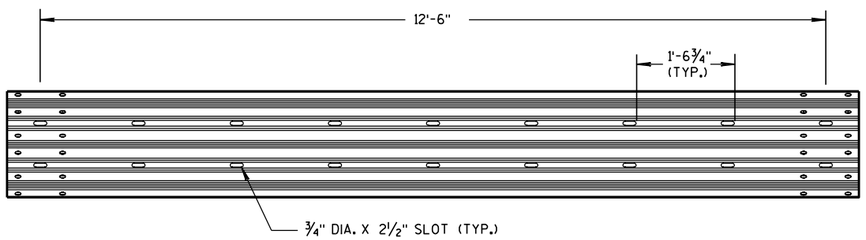
6
S.D.D. 14 B 45-3b



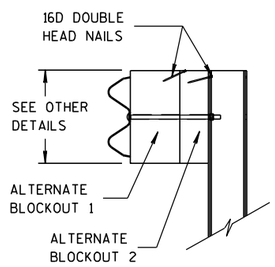
W-BEAM TO THRIE BEAM TRANSITION SECTION



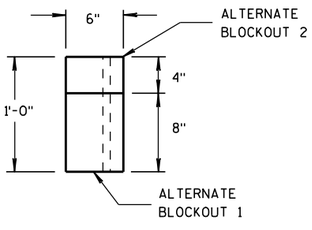
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

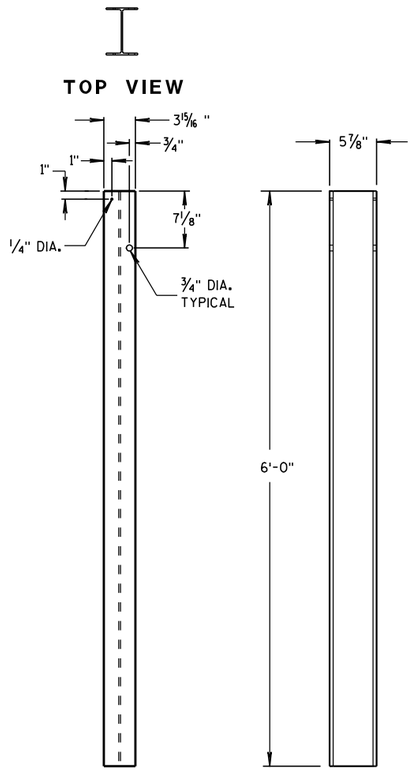


SIDE VIEW



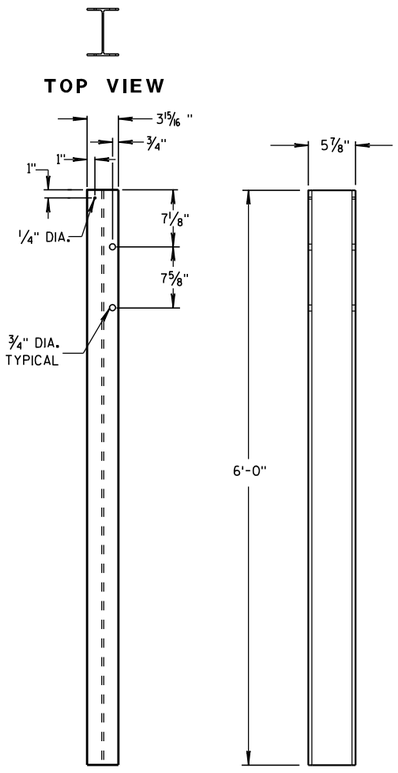
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



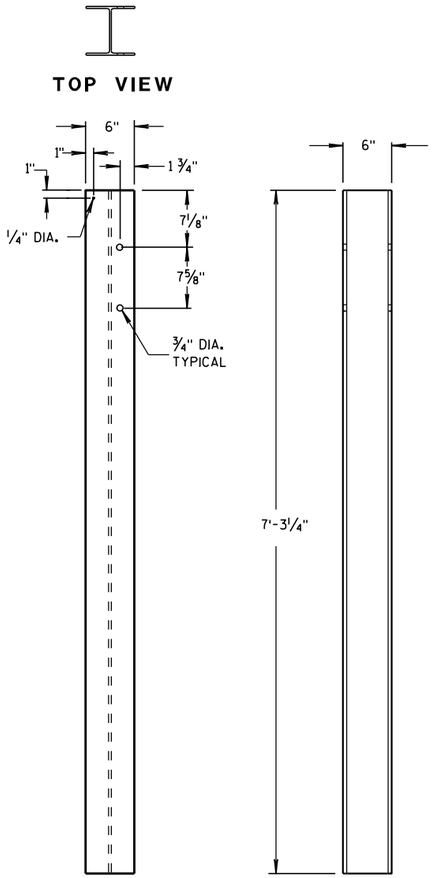
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5



FRONT VIEW SIDE VIEW

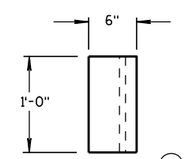
STEEL POSTS 6-11



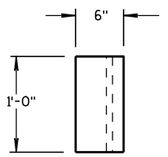
FRONT VIEW SIDE VIEW

STEEL POSTS 12-14

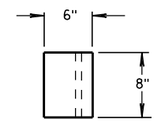
(1) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.



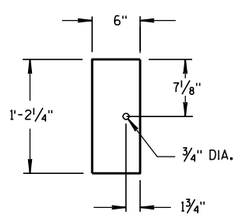
TOP VIEW (1)



TOP VIEW (1)

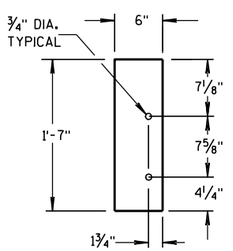


TOP VIEW



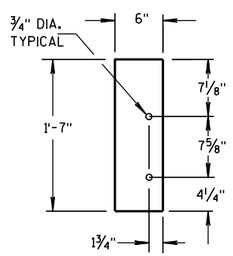
FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-11



FRONT VIEW

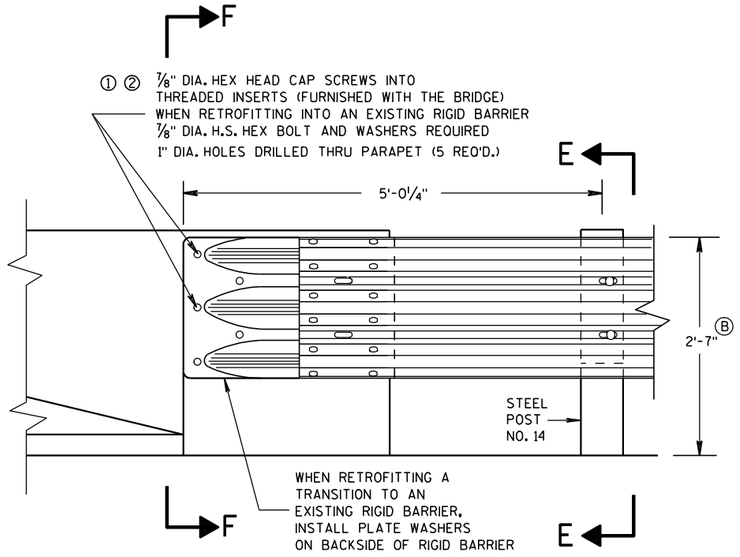
BLOCKOUT POSTS 12-14

STEEL POST SIZES

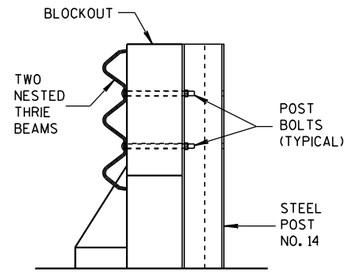
POST NUMBER	SECTION TYPE	LENGTH
1	W6x9	72"
2	W6x9	72"
3	W6x9	72"
4	W6x9	72"
5	W6x9	72"
6	W6x9	72"
7	W6x9	72"
8	W6x9	72"
9	W6x9	72"
10	W6x9	72"
11	W6x9	72"
12	W6x15	87 1/8"
13	W6x15	87 1/8"
14	W6x15	87 1/8"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



FRONT VIEW



SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

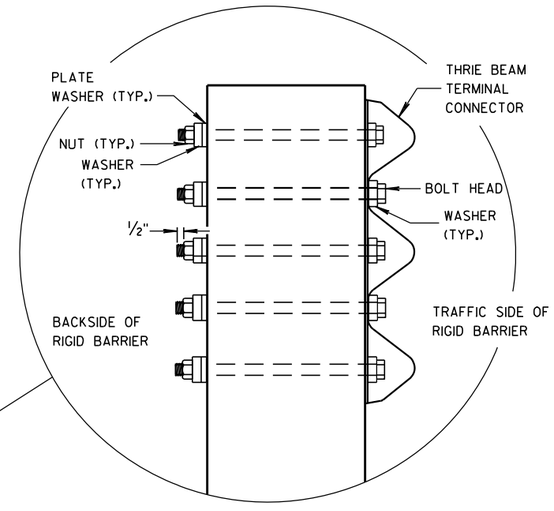
THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

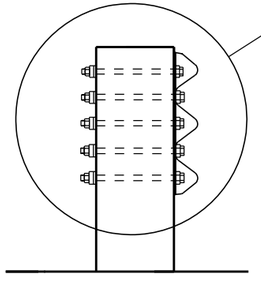
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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.

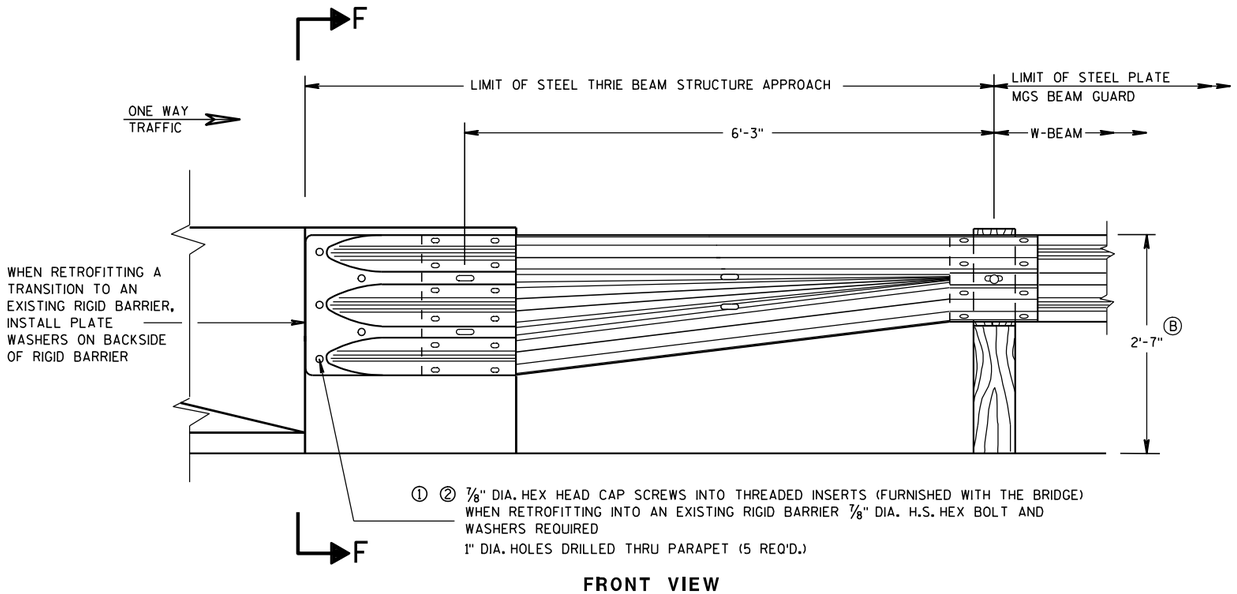
③ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".





SECTION F-F



FRONT VIEW

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

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

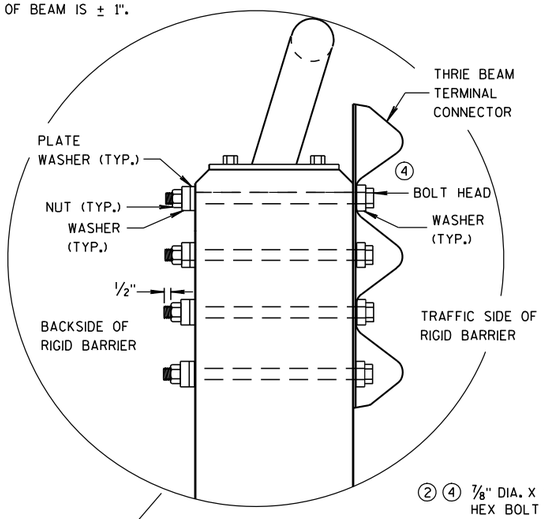
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

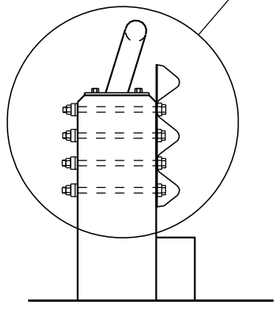
② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. 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". BLOCK IS INCIDENTAL TO THE CONTRACT.

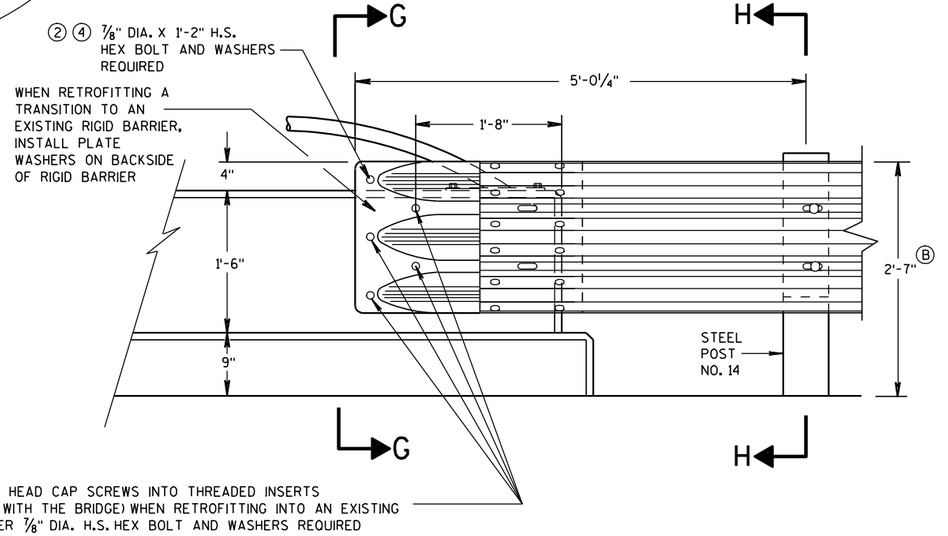
④ BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.

Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".

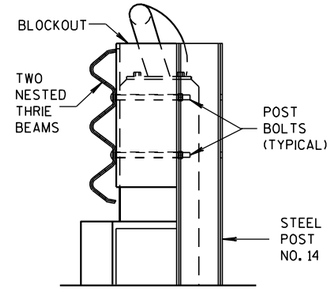




SECTION G-G

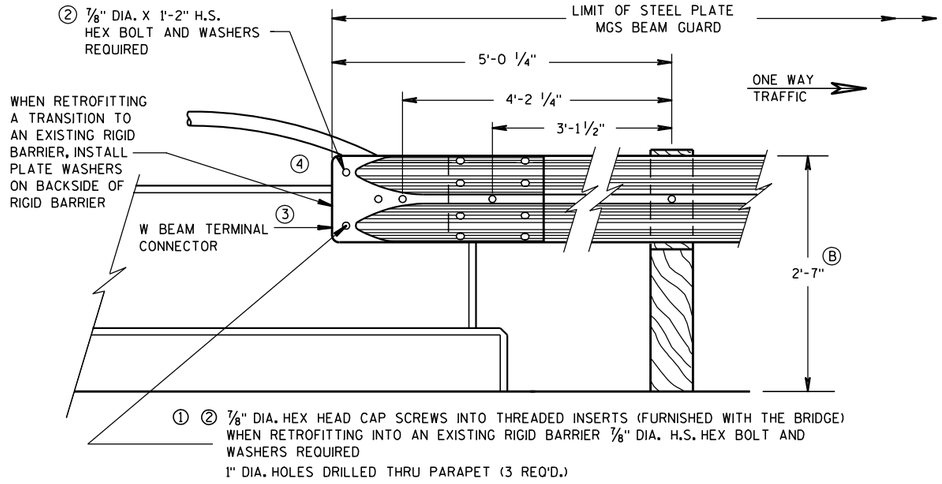


FRONT VIEW



SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(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. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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S.D.D. 14 B 45-3e

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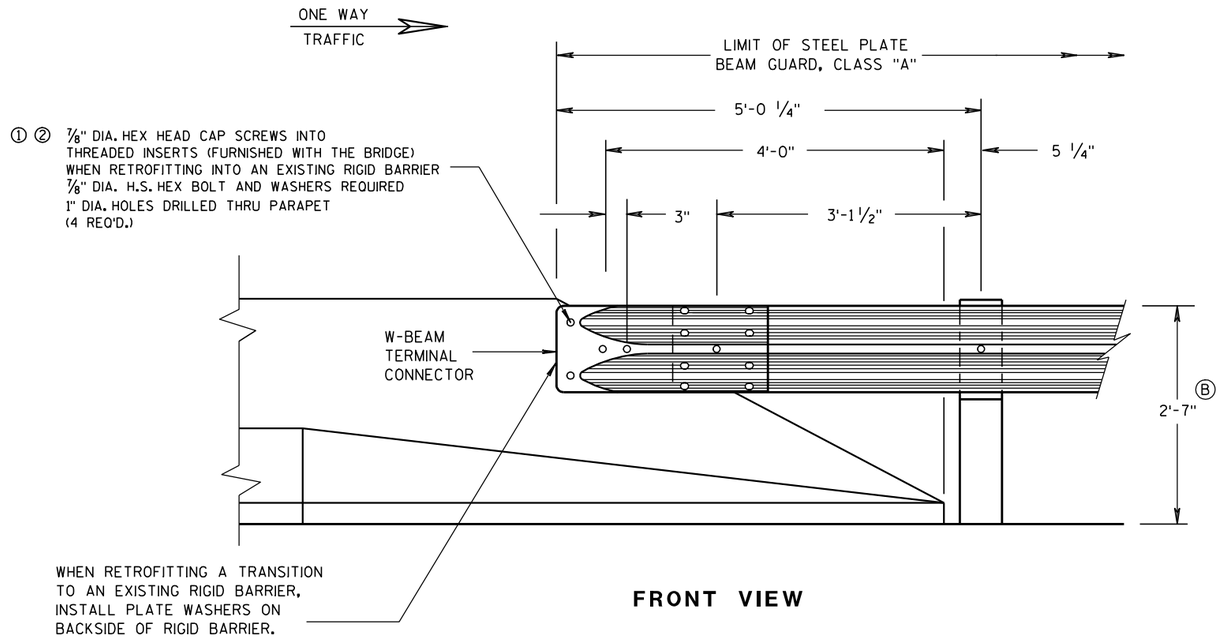
S.D.D. 14 B 45-3e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

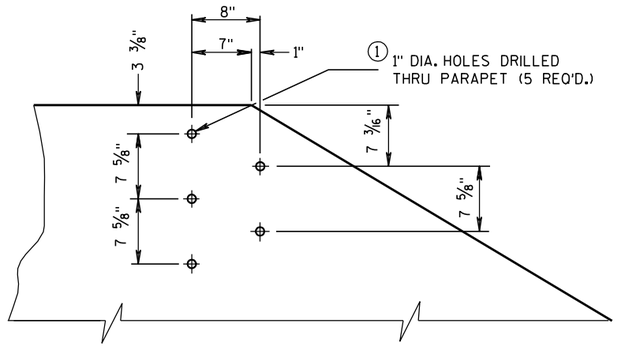
(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

GENERAL NOTES

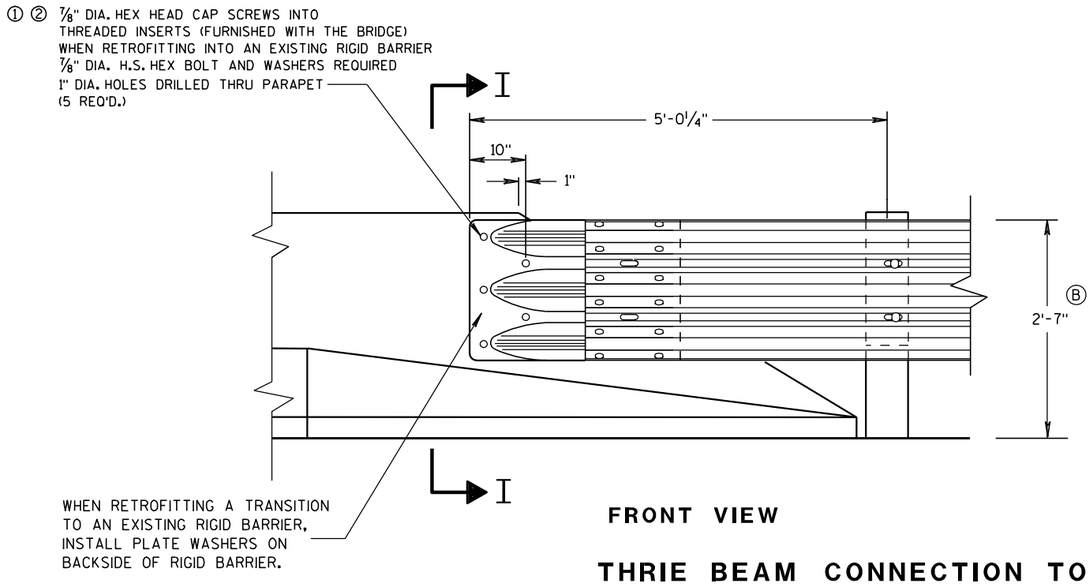
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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.

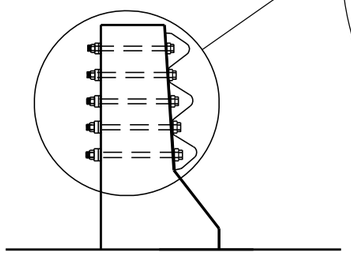
Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".



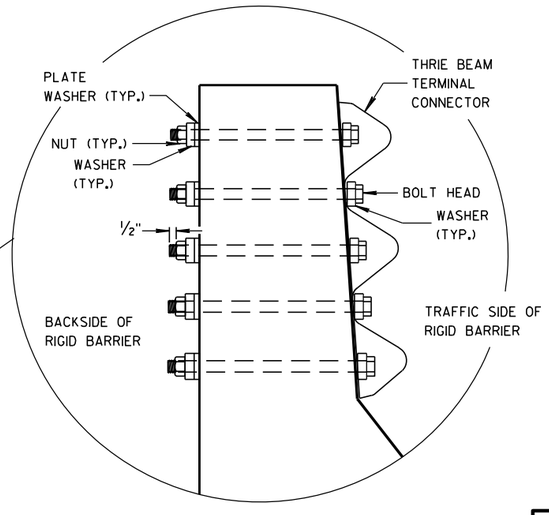
DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER

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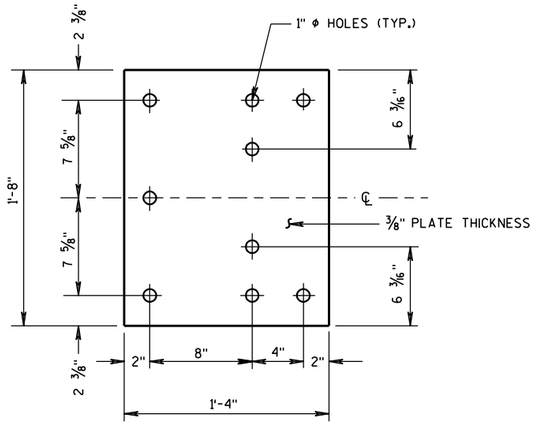
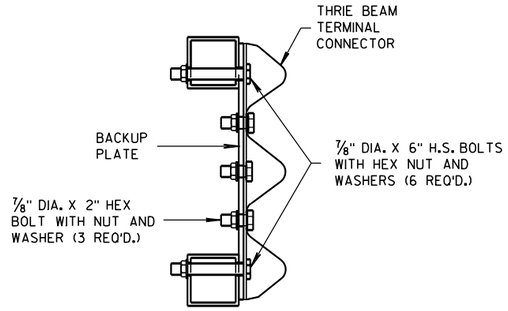
S.D.D. 14 B 45-3f



BACK-UP PLATE DETAIL

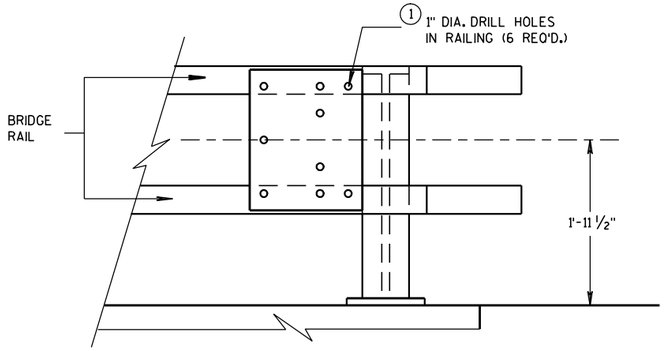


SECTION J-J

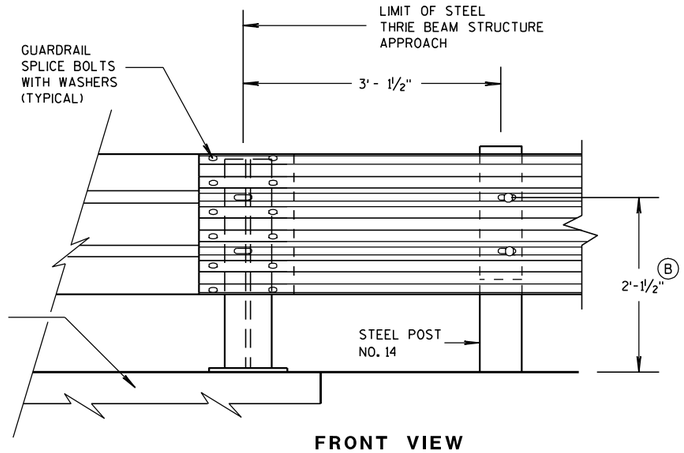
GENERAL NOTES

(1) DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(B) TOLERANCE FOR TOP OF BEAM IS ± 1".

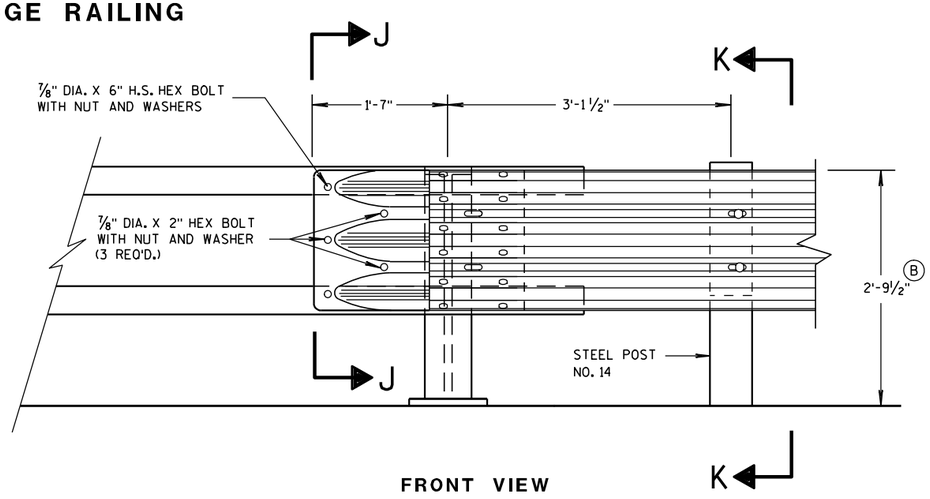


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

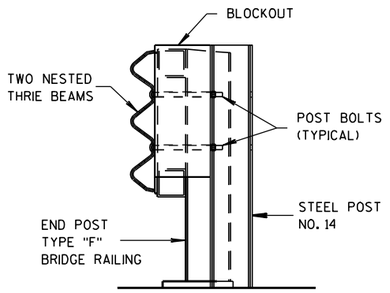


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

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S.D.D. 14 B 45-3g

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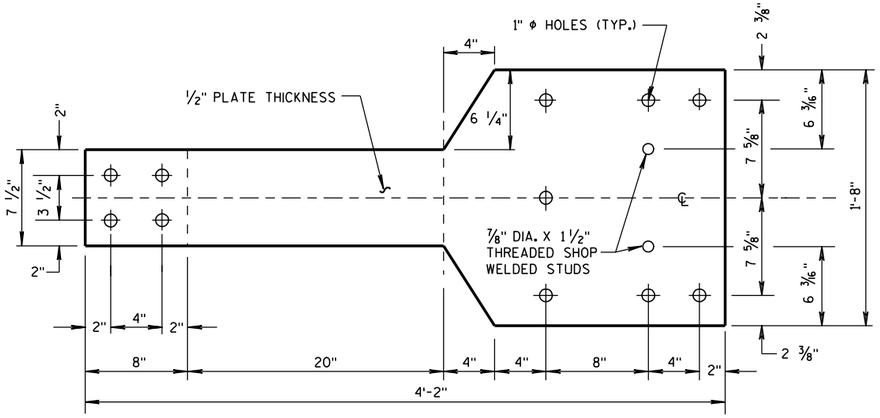
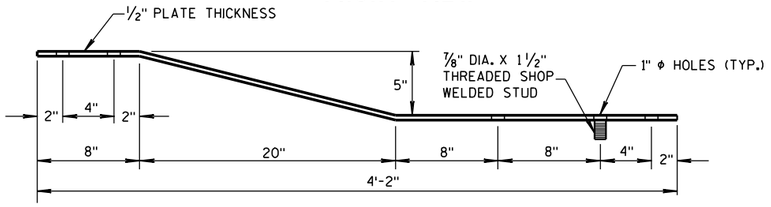
S.D.D. 14 B 45-3g

GENERAL NOTES

(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

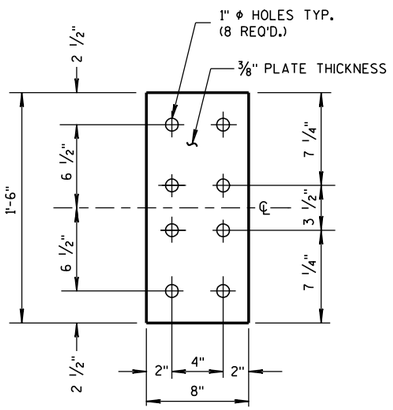


FRONT VIEW



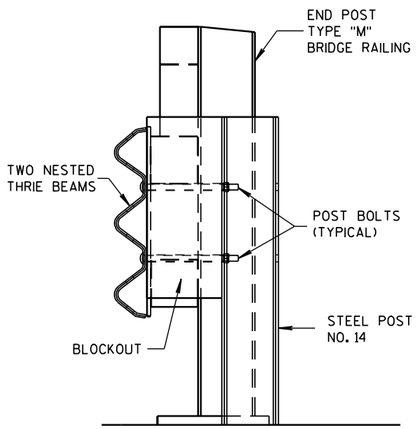
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

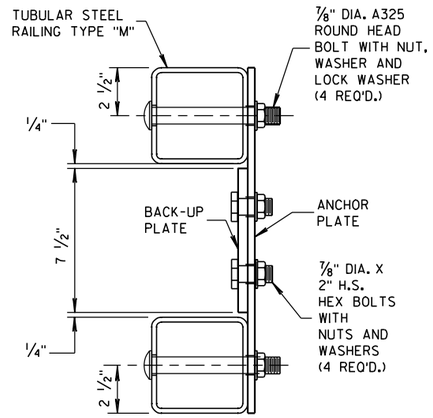


FRONT VIEW

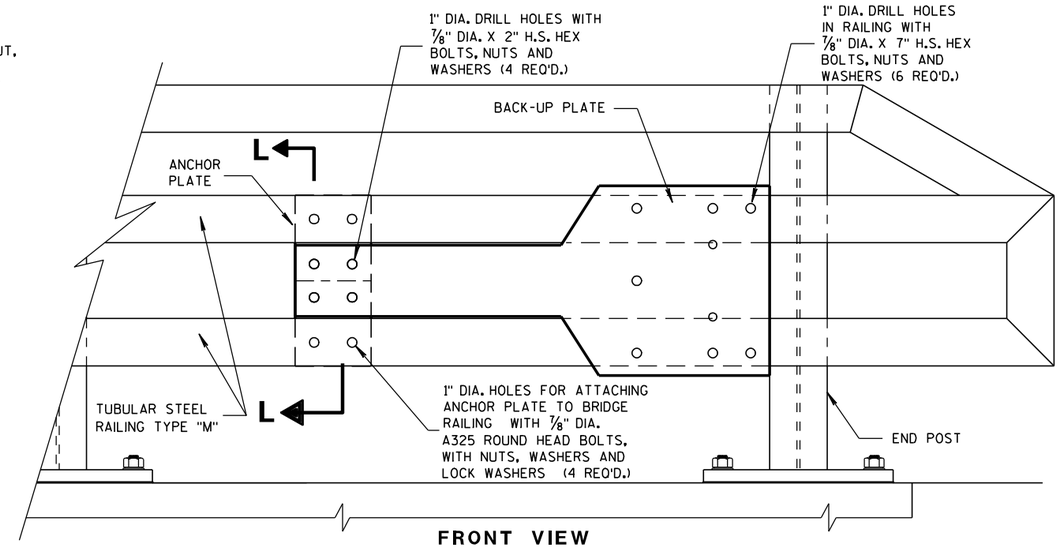
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

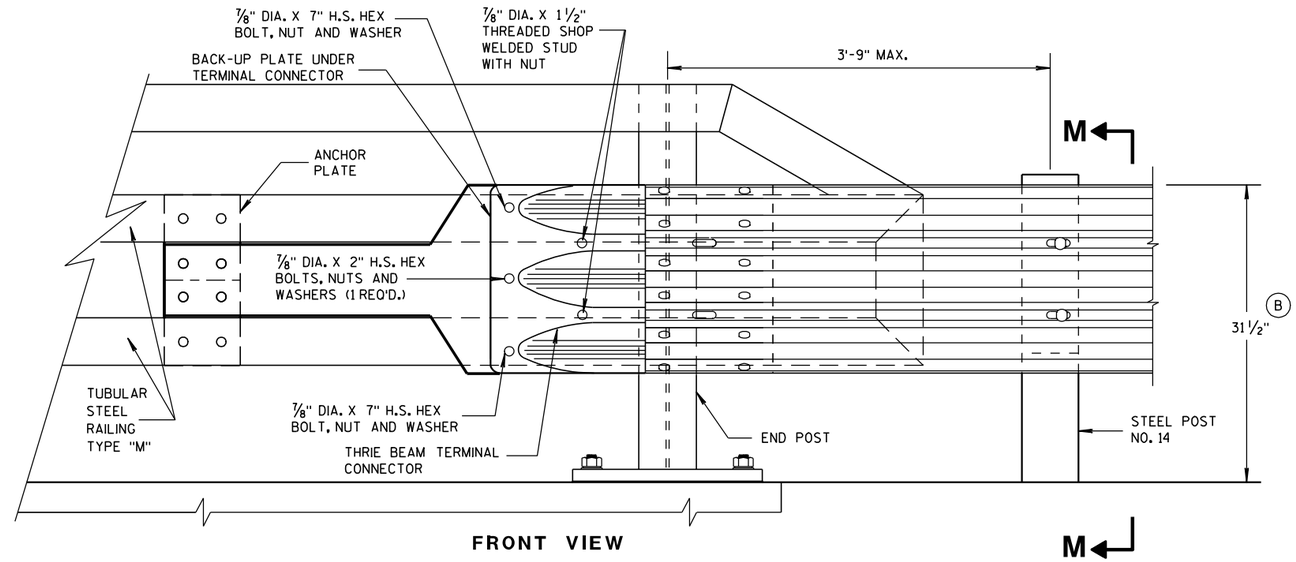


SECTION L-L

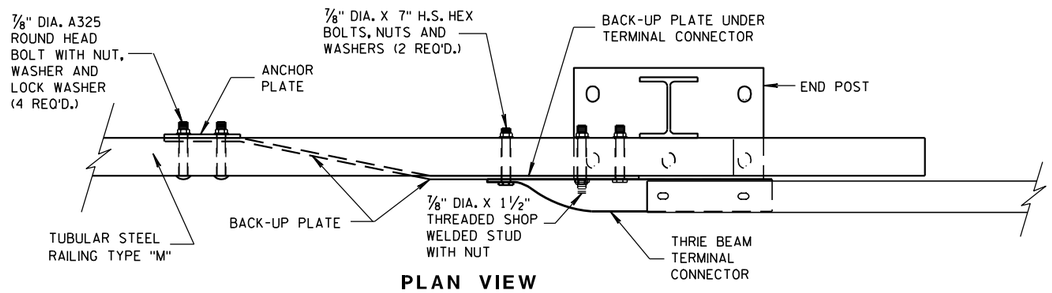


FRONT VIEW

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. Zogg ROADWAY STANDARDS ENGINEER
FHWA	142 ENT

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S.D. 14 B 45-3h

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S.D. 14 B 45-3h

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

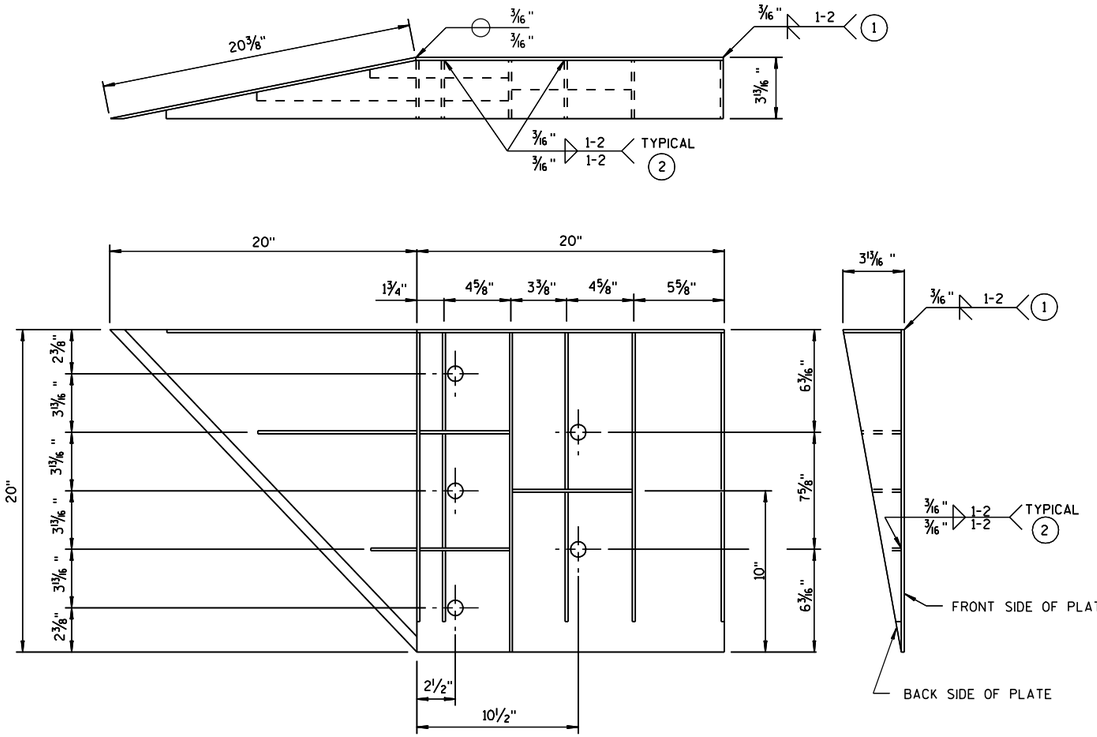
FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(1) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(2) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

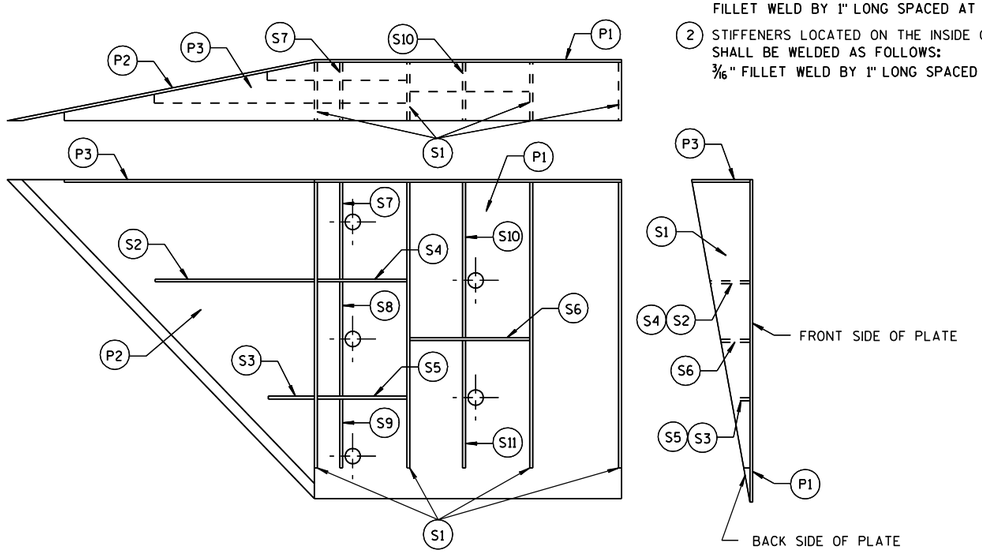


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012
DATE
/S/ Jerry H ...
ROADWAY STANDARDS ENGINEER
143
FHWA

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S.D.D. 14 B 45-3i

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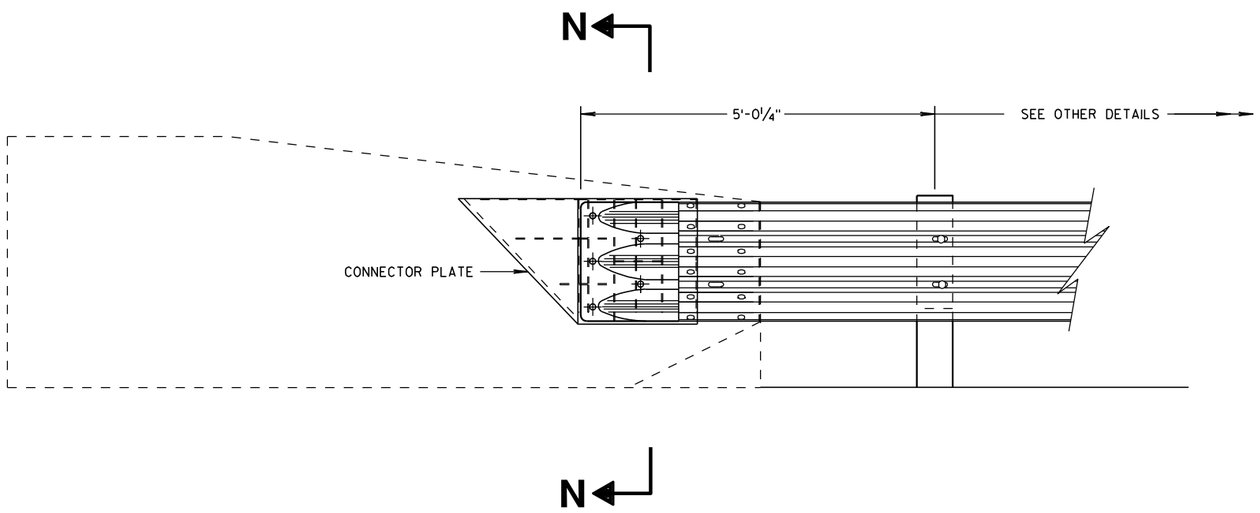
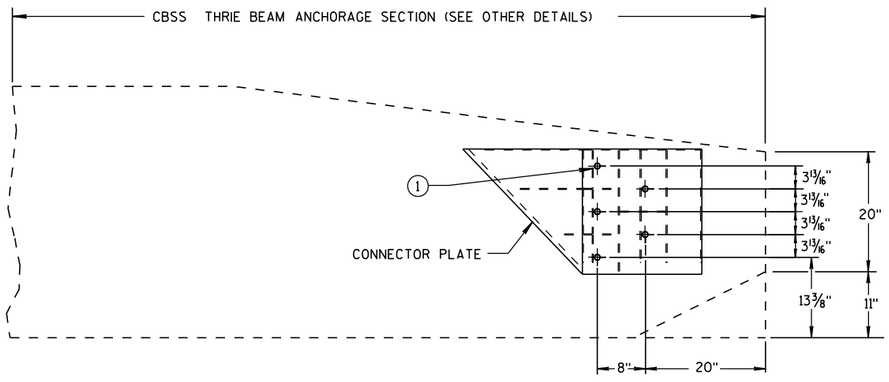
S.D.D. 14 B 45-3i



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

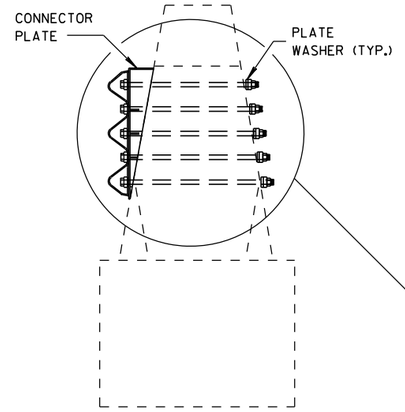


SINGLE SLOPE CONNECTION PLATE PLACEMENT

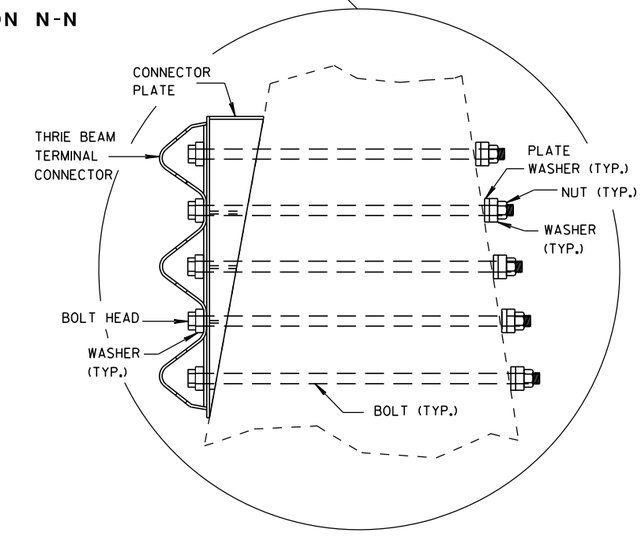
GENERAL NOTES

CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(1) 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.



SECTION N-N



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

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S.D.D. 14 B 45-3j

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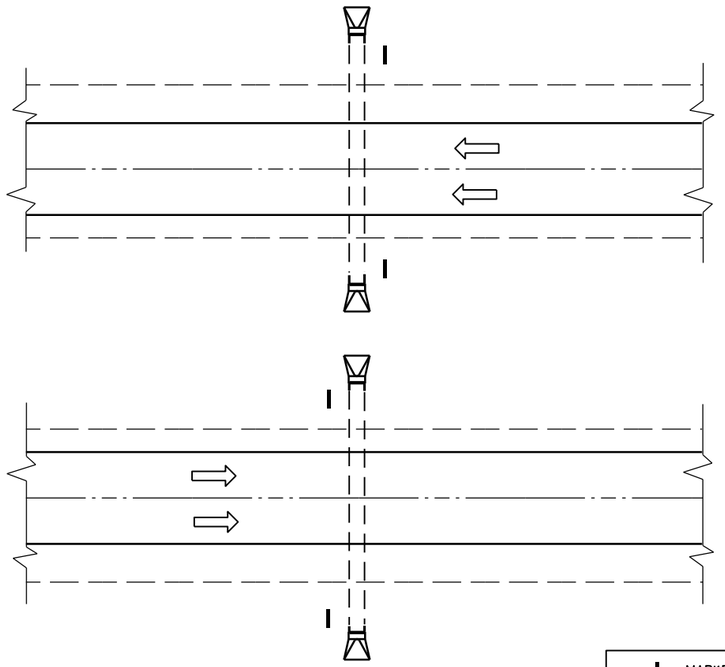
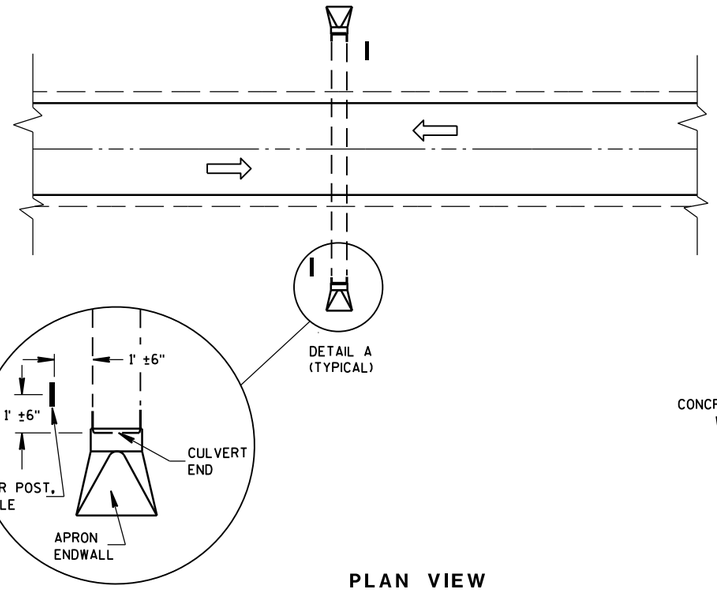
S.D.D. 14 B 45-3j



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

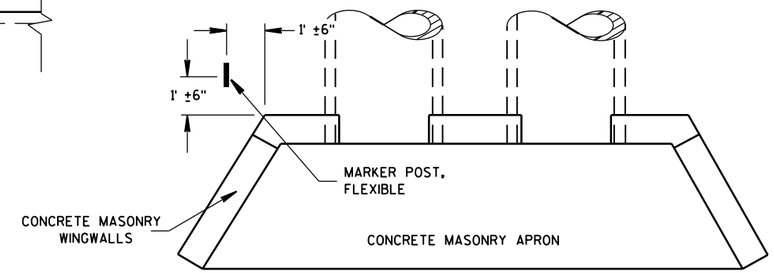
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

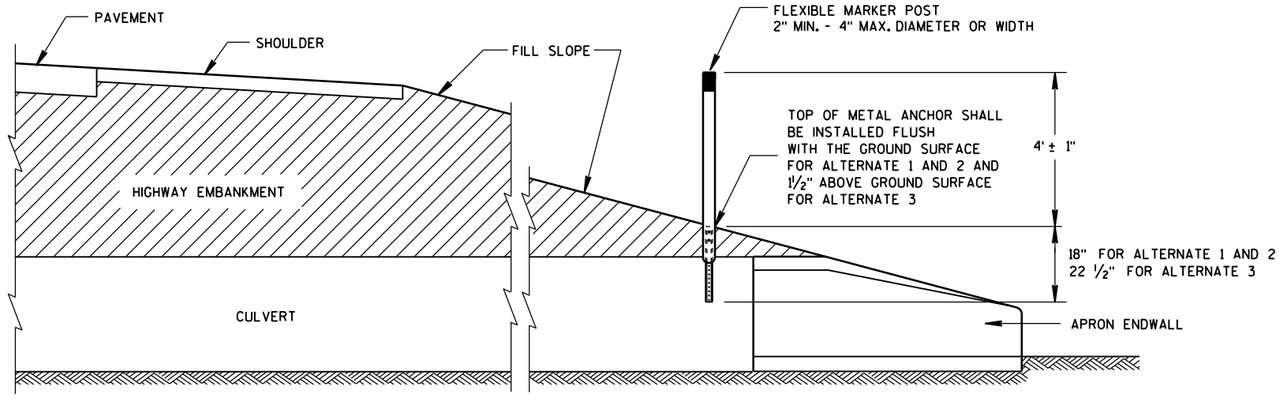
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 A 3-2a

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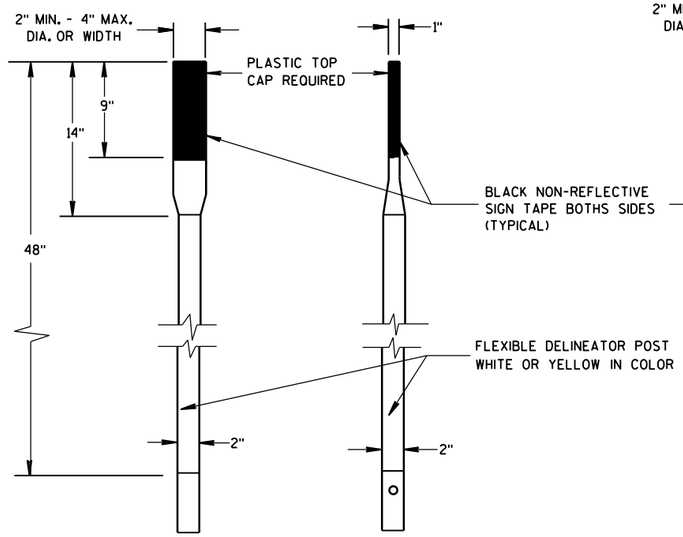
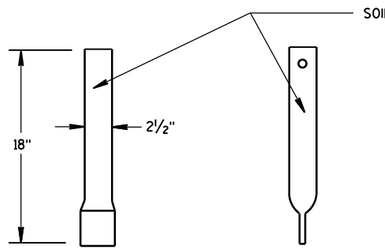
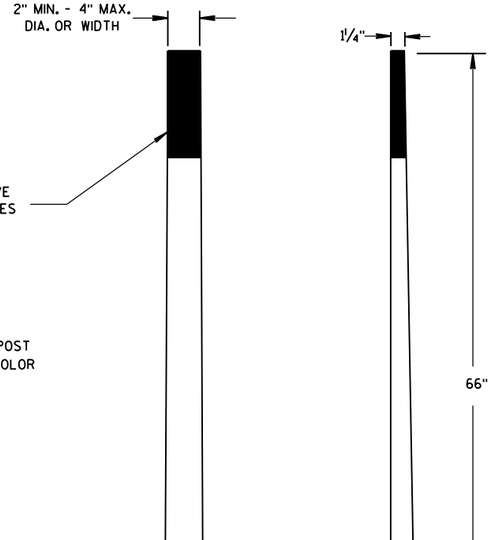
S.D.D. 15 A 3-2a





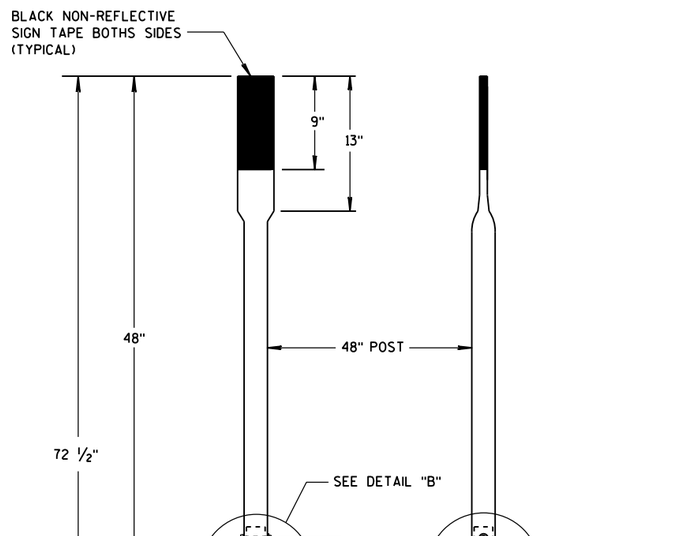
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

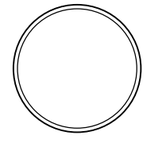
ALTERNATE 2



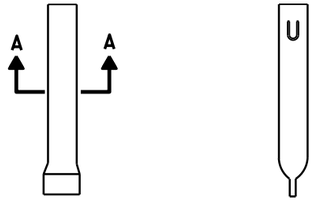
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

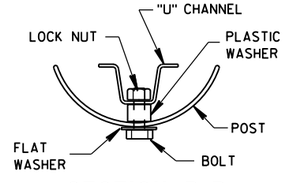


SECTION A-A

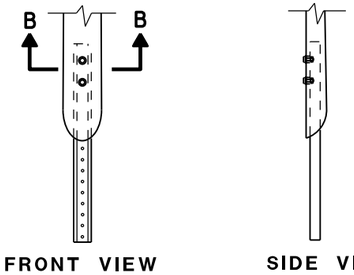


FRONT VIEW SIDE VIEW

ALTERNATE 1

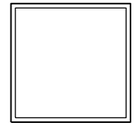


SECTION B-B

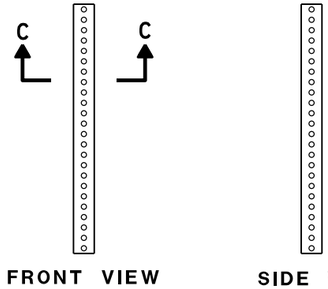


FRONT VIEW SIDE VIEW

ALTERNATE 2



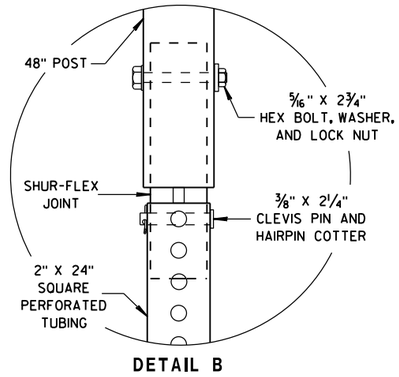
SECTION C-C



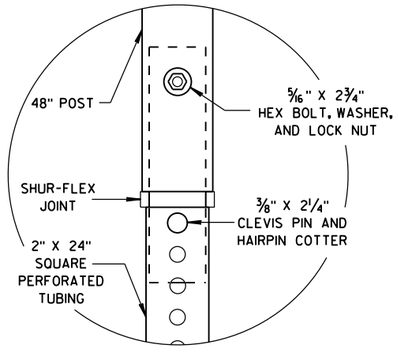
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 15 A 3-2b

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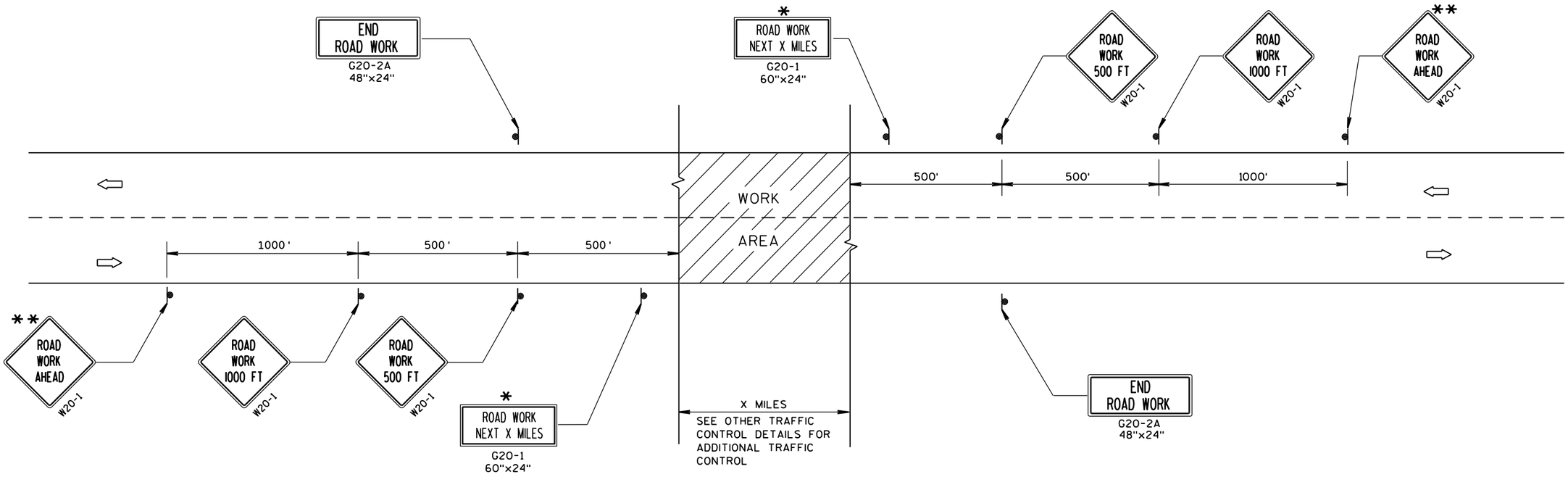
S.D.D. 15 A 3-2b



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

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.

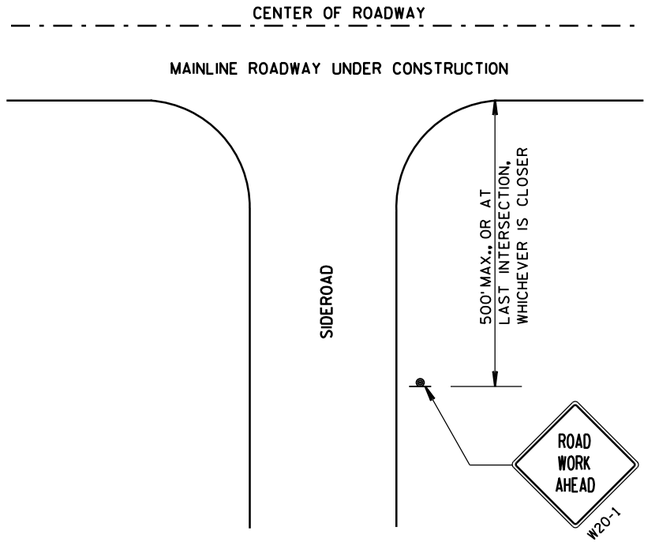
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013	/S/ Travis Feltes	SIGN
DATE	STATE TRAFFIC ENGINEER	

FHWA

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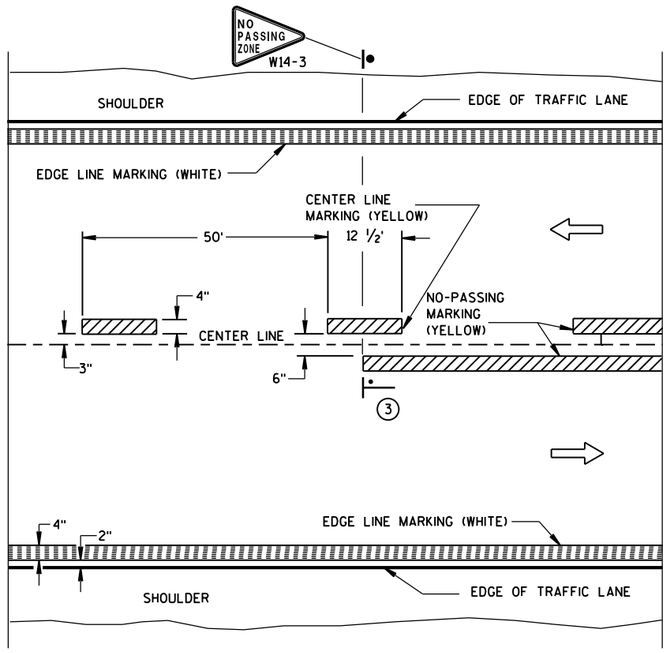
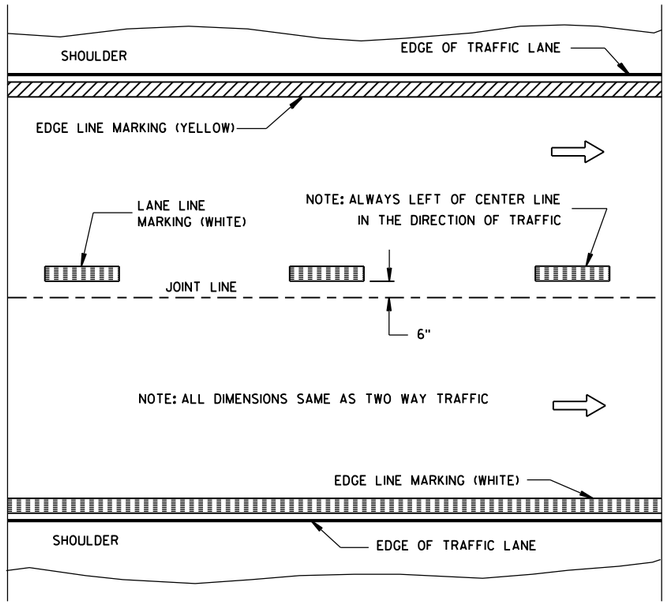
S.D.D. 15 C 4-2

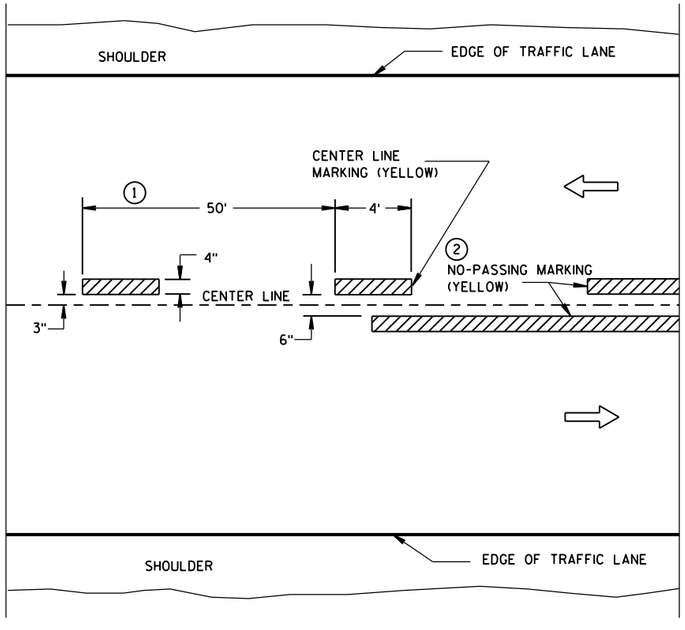


TWO WAY TRAFFIC

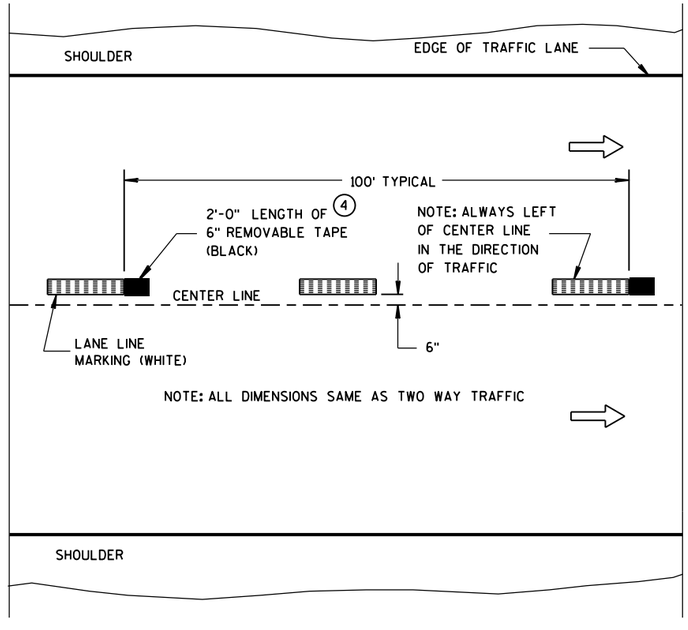


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

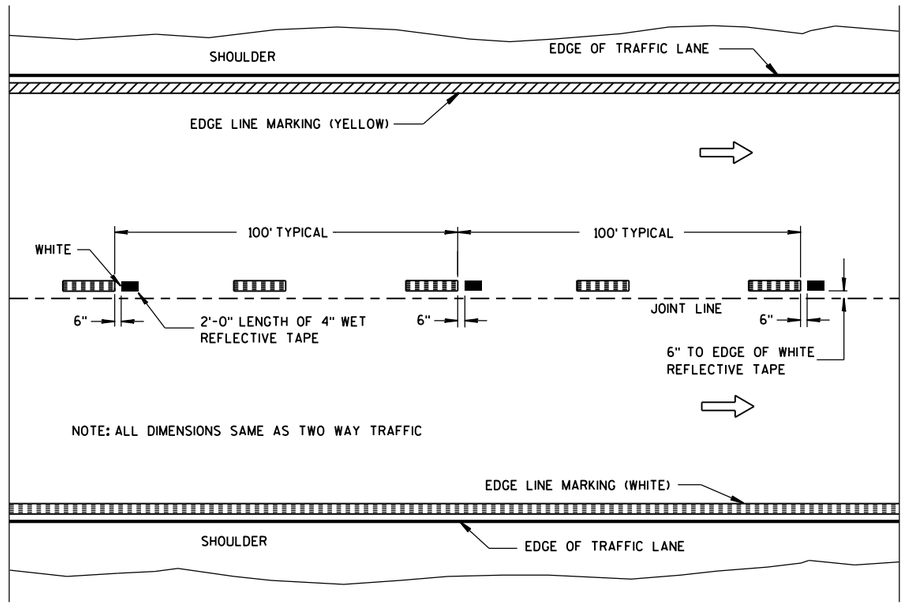
GENERAL NOTES

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

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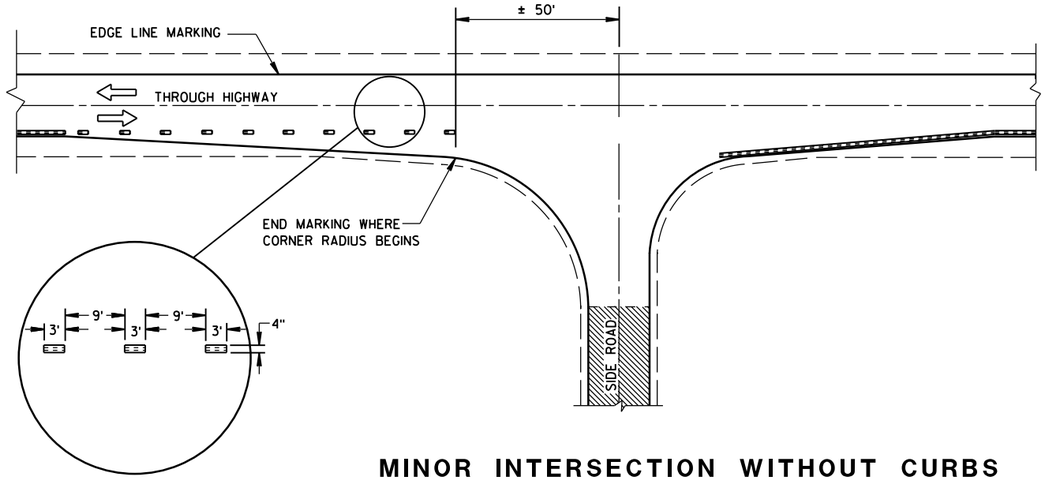
S.D.D. 15 C 8-16a



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.

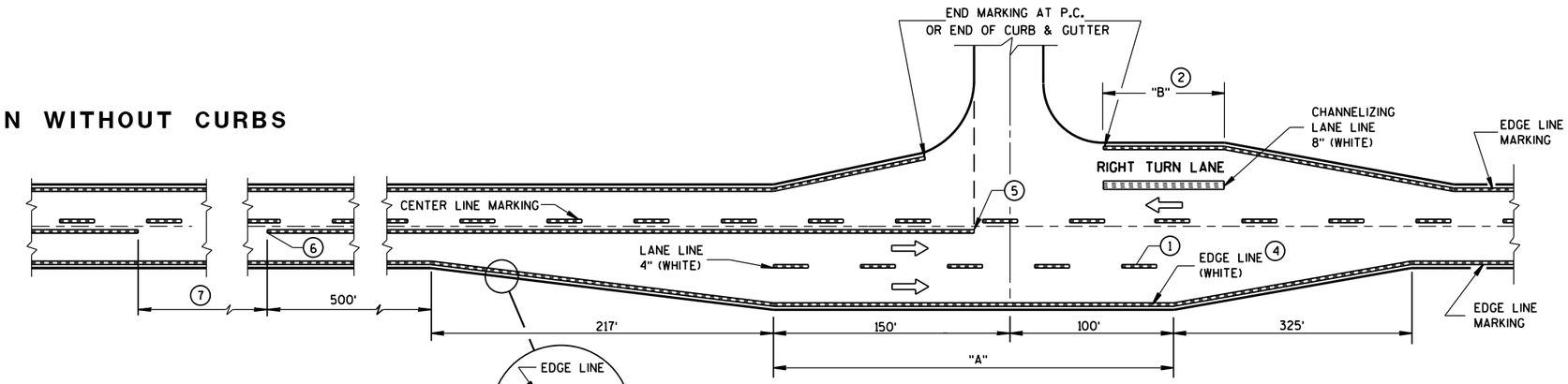
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

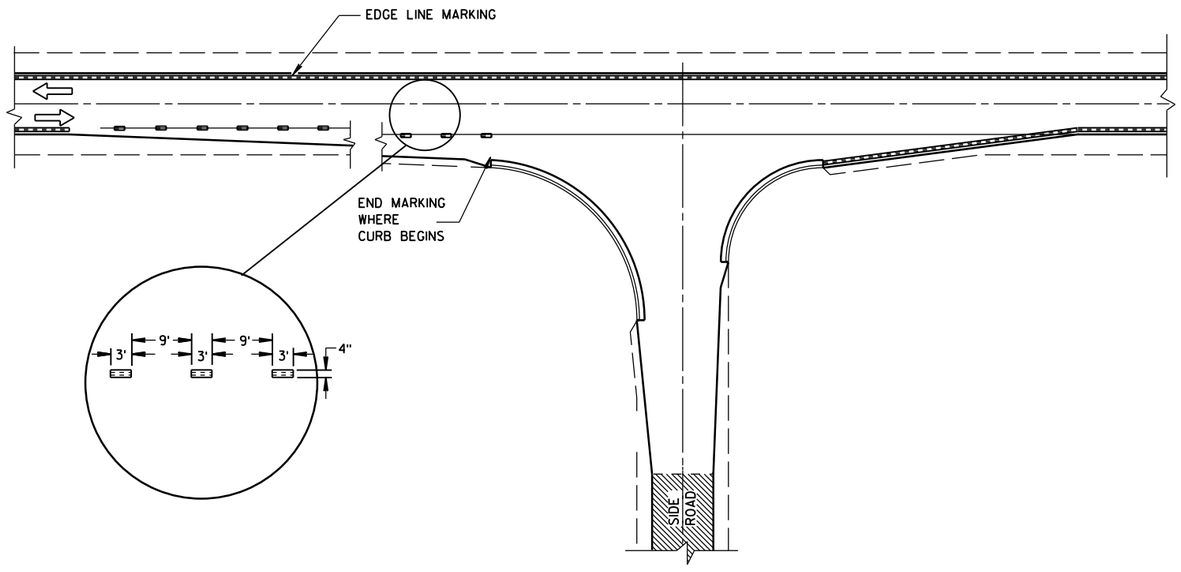
(7)

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



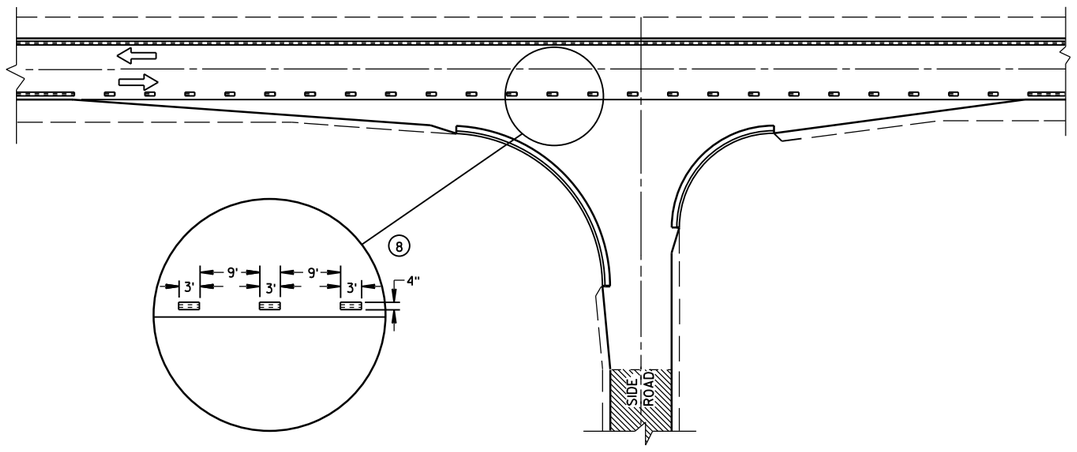
MAJOR INTERSECTIONS

(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)

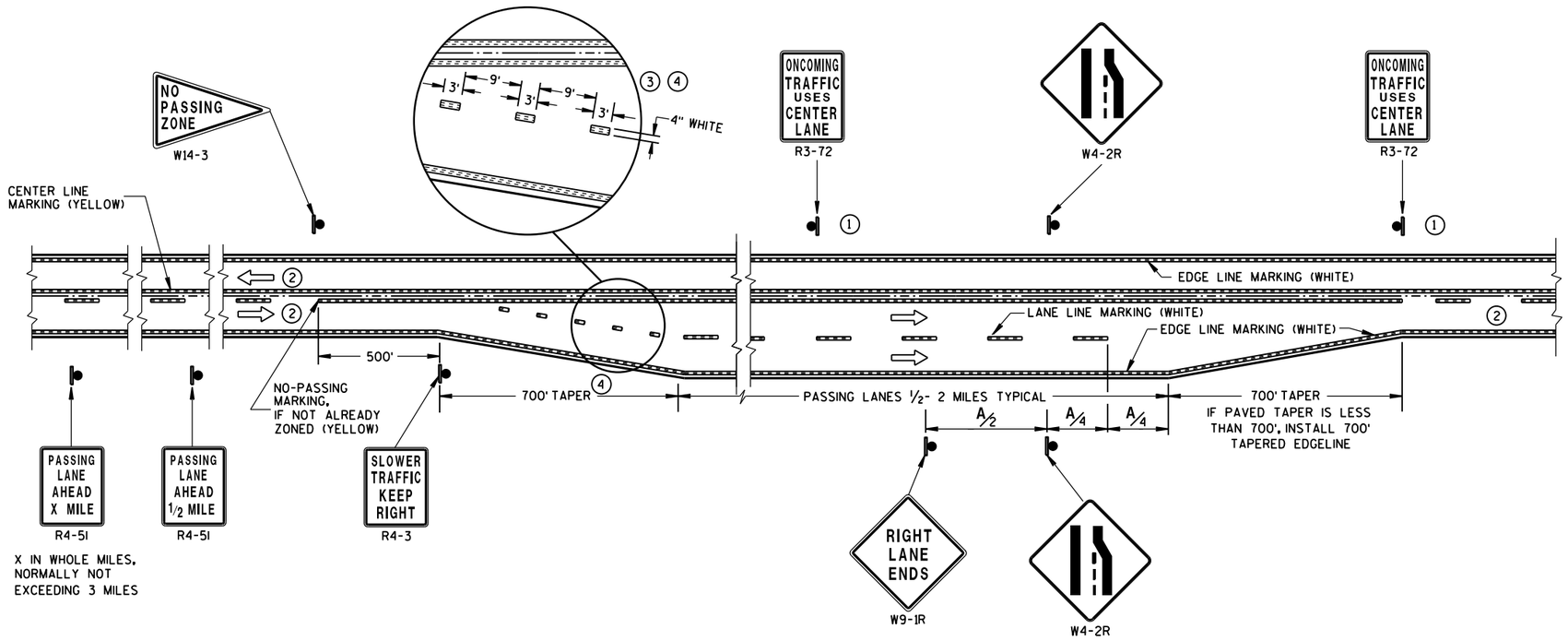
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

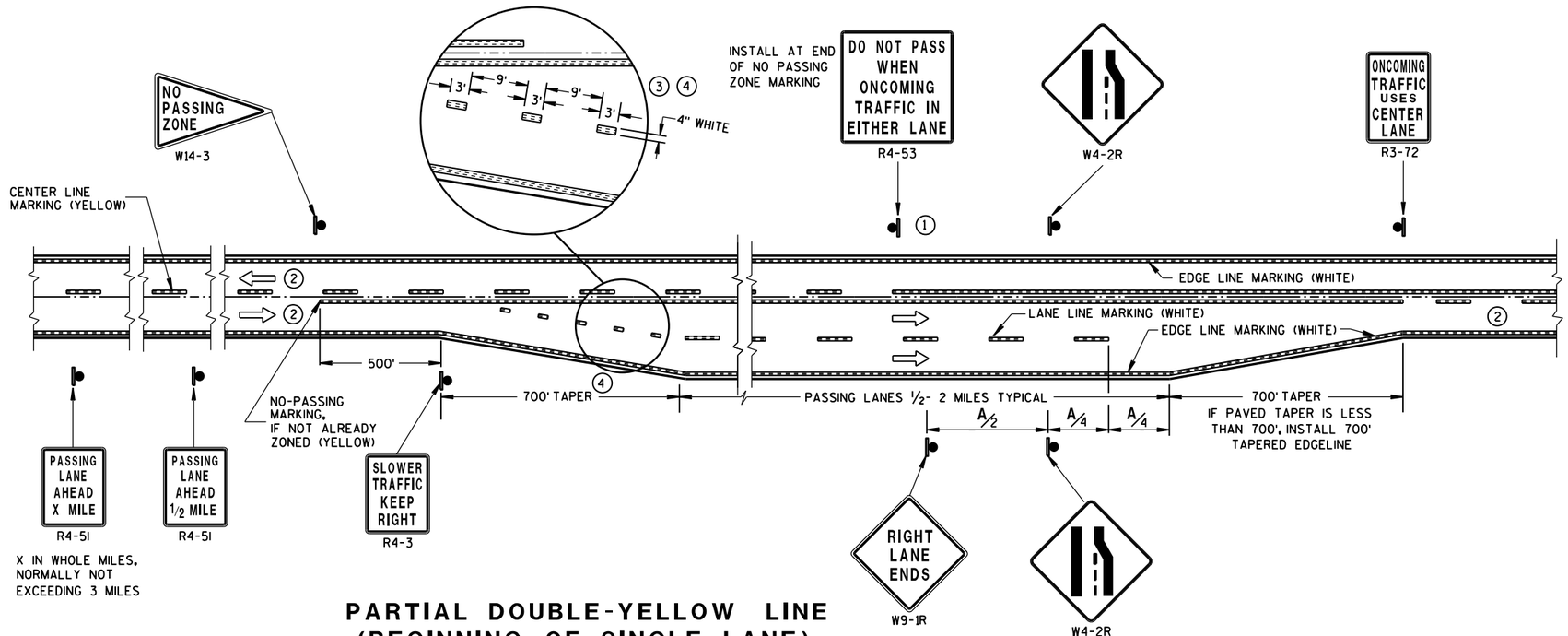
S.D.D. 15 C 8-16b

6

S.D.D. 15 C 8-16b



SOLID DOUBLE-YELLOW LINE
(THROUGHOUT ENTIRE PASSING/CLIMBING LANE)



PARTIAL DOUBLE-YELLOW LINE
(BEGINNING OF SINGLE LANE)

GENERAL NOTES

1. SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3'LINE 9'GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

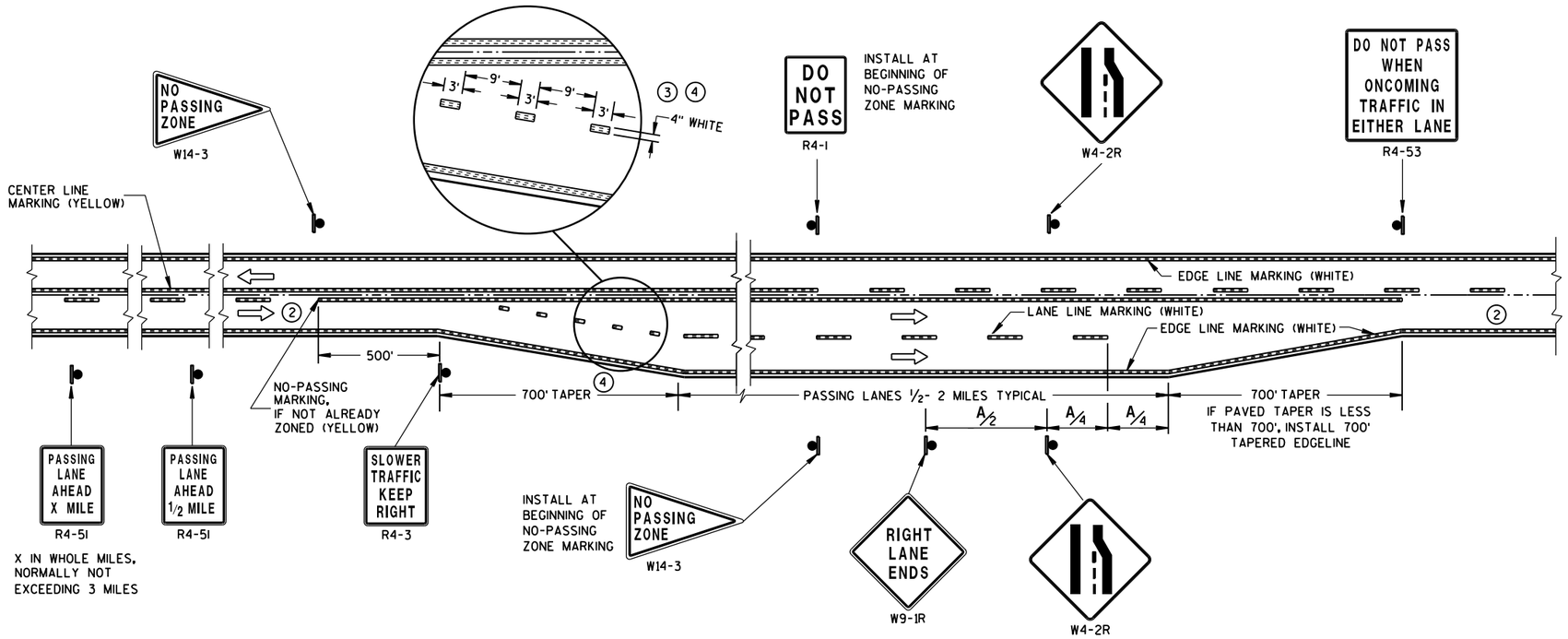
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

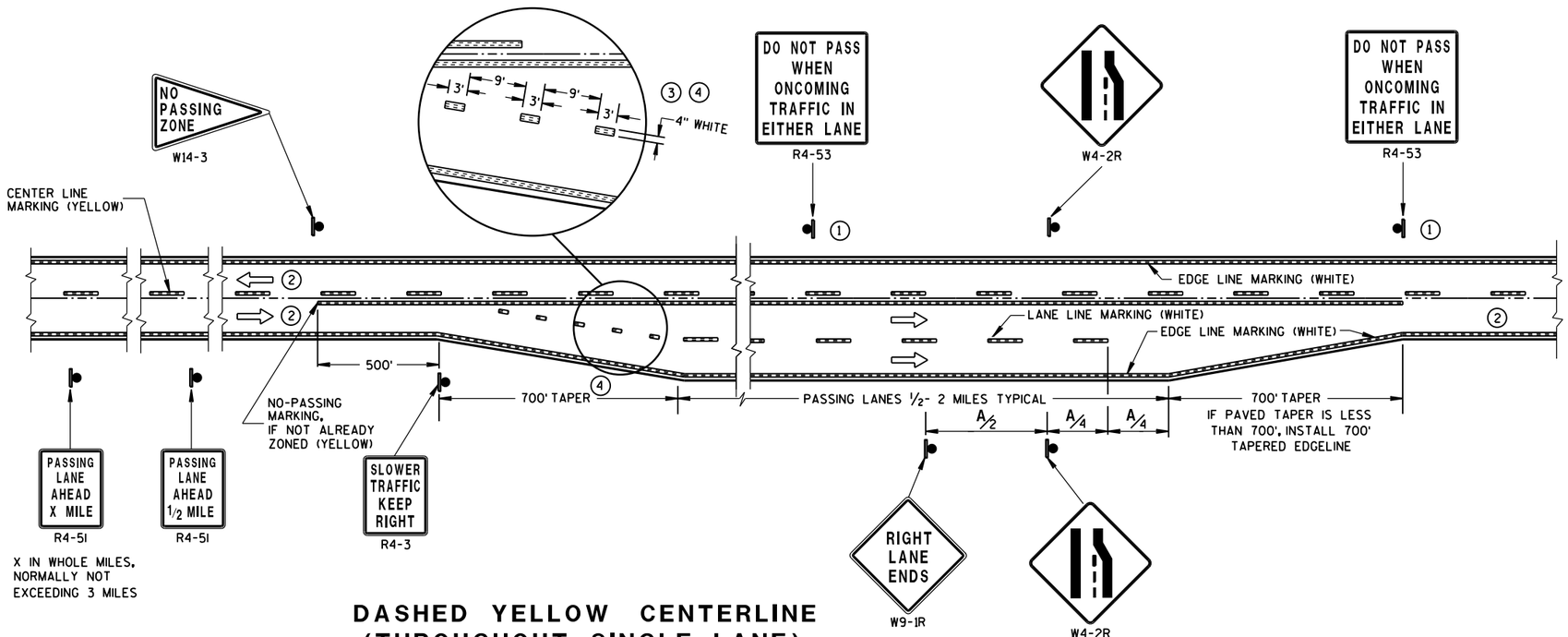
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 8-16c



SOLID DOUBLE-YELLOW LINE (END OF SINGLE LANE)



DASHED YELLOW CENTERLINE (THROUGHOUT SINGLE LANE)

GENERAL NOTES

1. SIGN SHALL BE REPEATED AT ½ MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3'LINE 9'GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

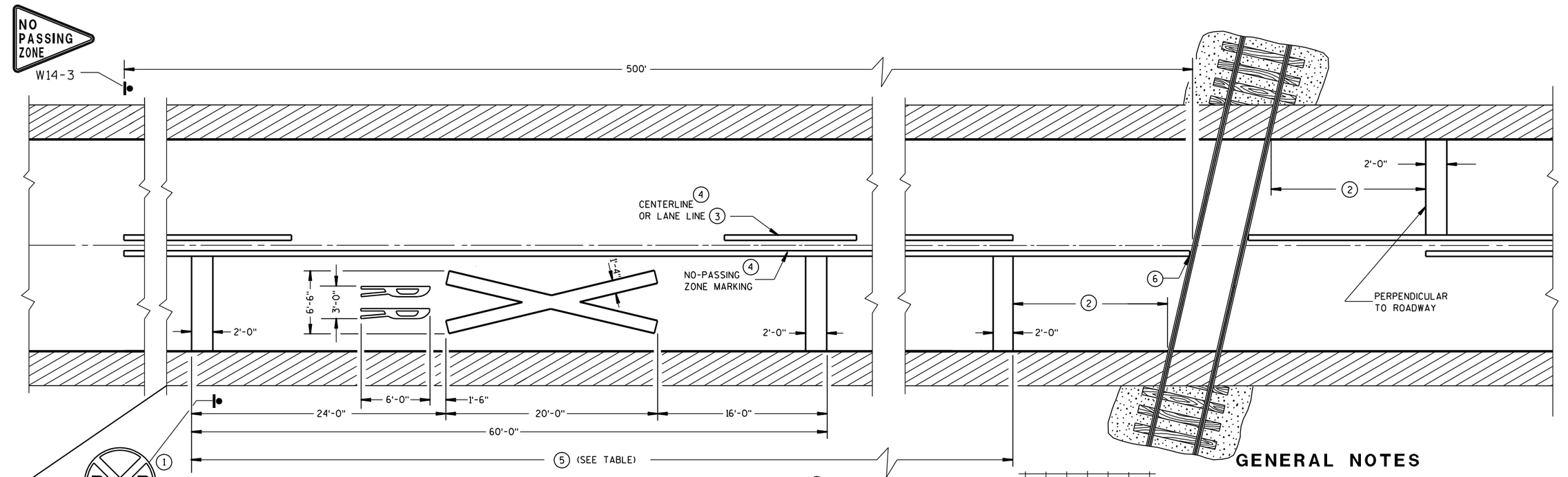
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

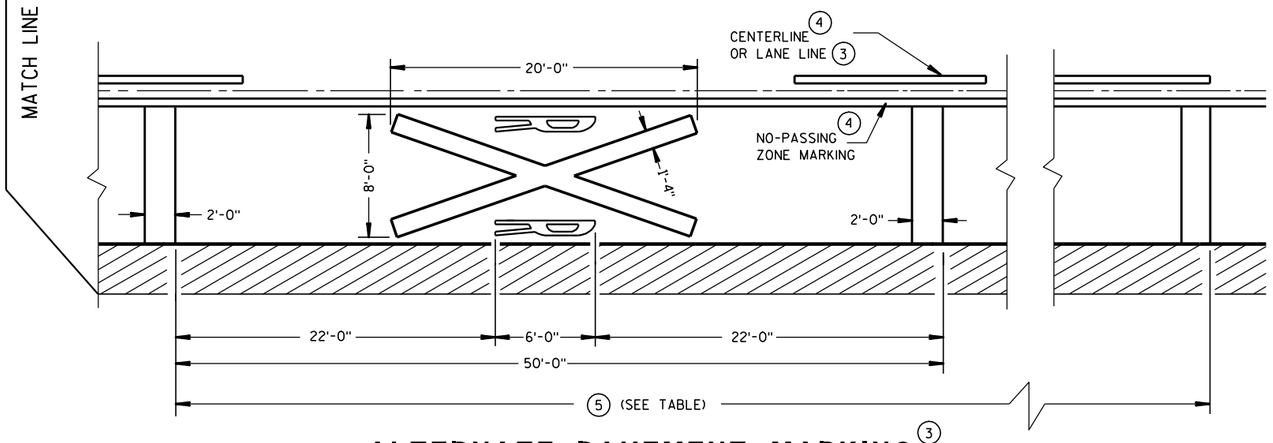
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 8-16d



PREFERRED PAVEMENT MARKING (3)

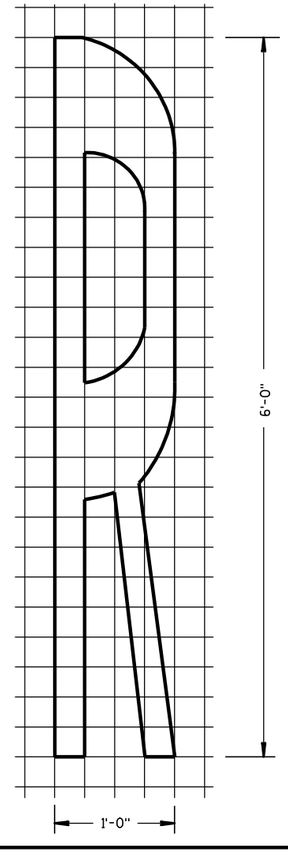


ALTERNATE PAVEMENT MARKING (3)

(5)

Posted Speed (M.P.H.)	Dimension Range (Feet)
25	150*- 250
30	200*- 300
35	250*- 450
40	300*- 500
45	400*- 650
50	550*- 800
55	750*- 1000
60	1000*- 1250
65	1000*- 1250

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSE PROXIMITY OF DRIVEWAYS, BRIDGES, SIDEROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.



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.

A THREE-LANE ROADWAY SHOULD BE MARKED WITH A CENTERLINE FOR TWO-LANE APPROACH OPERATION ON THE APPROACH TO A CROSSING.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE. ALL LETTERS AND SYMBOLS SHALL BE IN CONFORMANCE WITH THE "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" (ADOPTED BY THE FEDERAL HIGHWAY ADMINISTRATION).

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

(1) A PORTION OF THE PAVEMENT MARKING SYMBOL SHOULD BE DIRECTLY OPPOSITE THE ADVANCE WARNING SIGN (W10-1).

(2) MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNALS, GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.

(3) REFLECTIVE WHITE.

(4) REFLECTIVE YELLOW 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.

(5) TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

(6) FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

1-9-2012
DATE

/S/ Thomas N. [illegible]
STATE TRAFFIC ENGINEER

FHWA

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

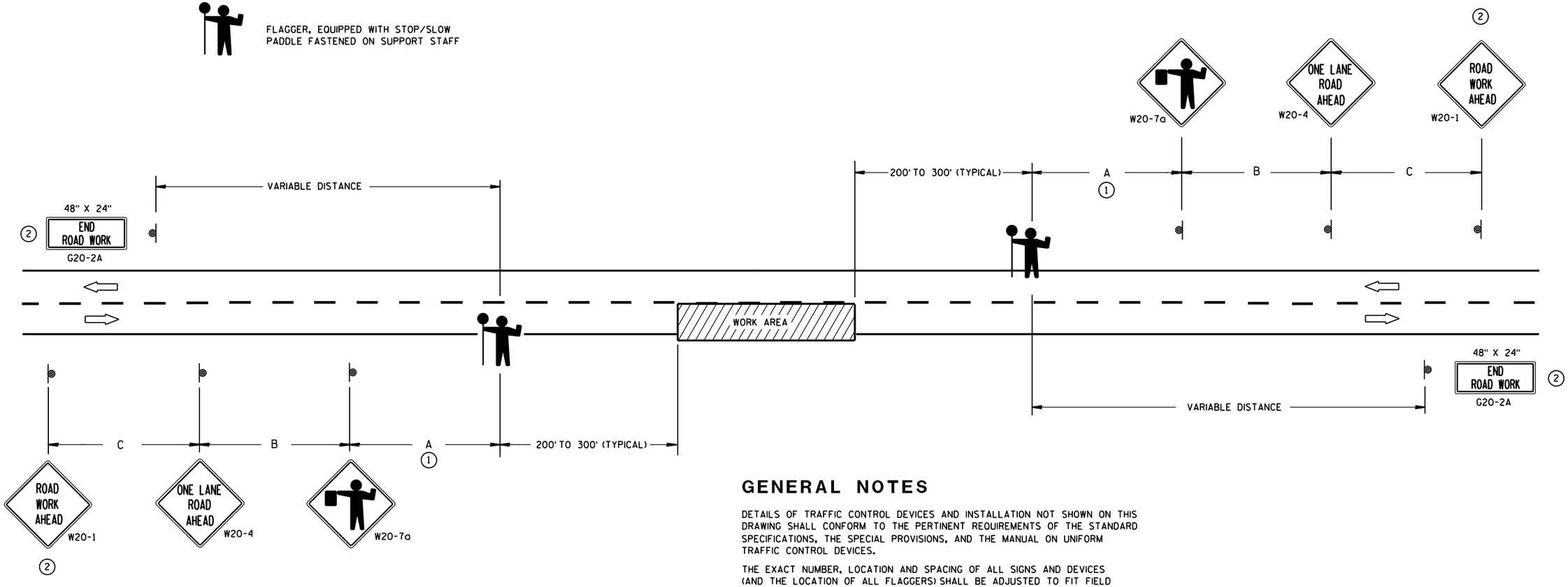
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

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
FHWA

6

S.D.D. 15 C 12-4

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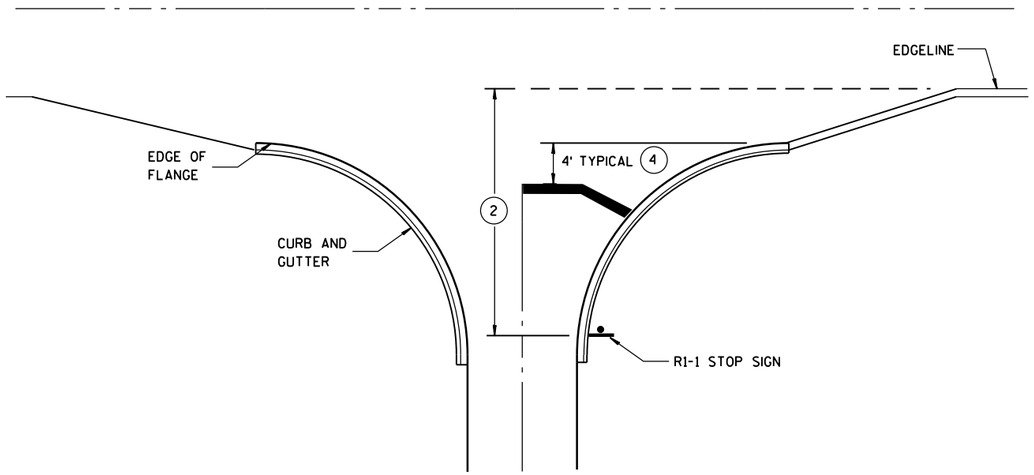
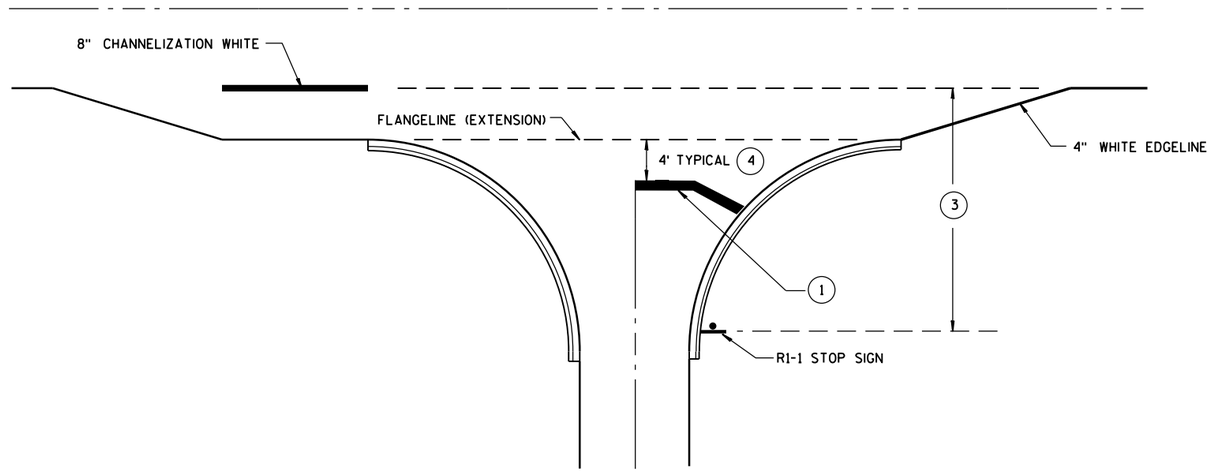
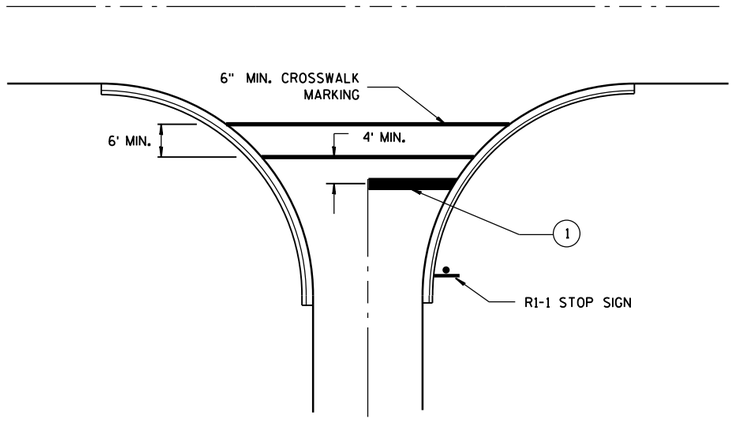
S.D.D. 15 C 12-4



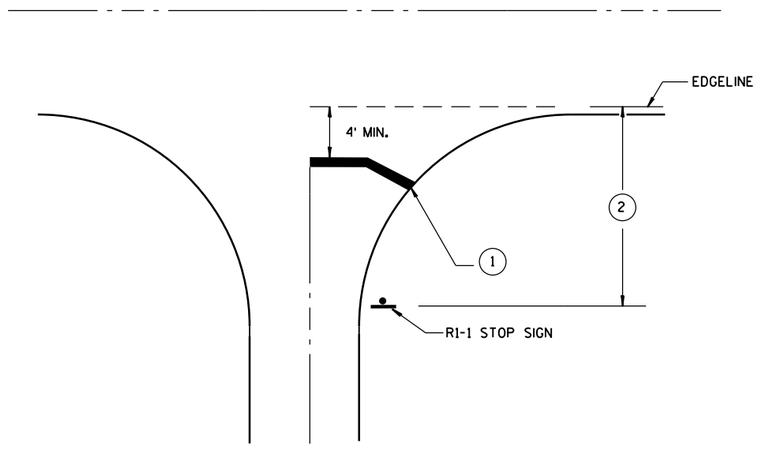
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



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

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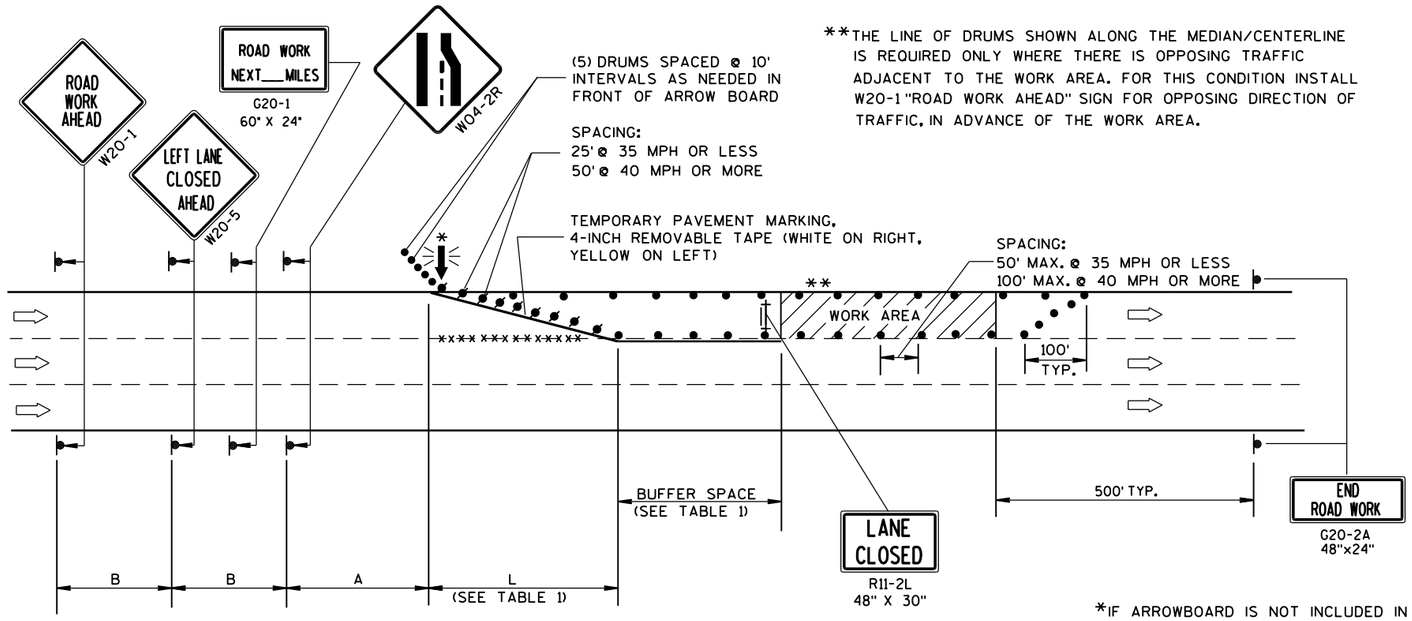
S.D.D. 15 C 33-1



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

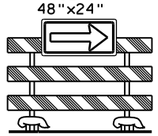


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 D 20-2

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S.D.D. 15 D 20-2

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.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

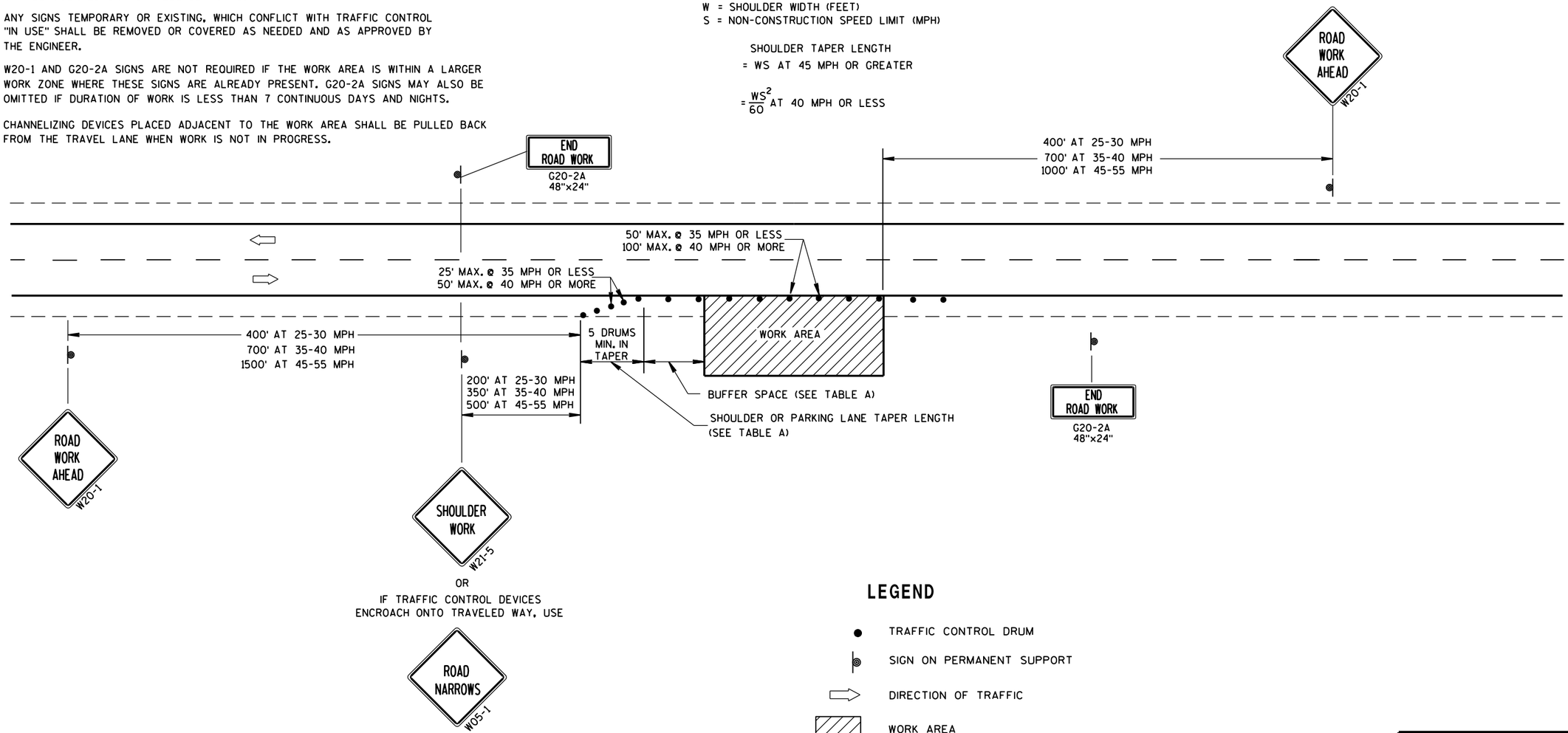
TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= WS AT 45 MPH OR GREATER

$= \frac{WS^2}{60}$ AT 40 MPH OR LESS



LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

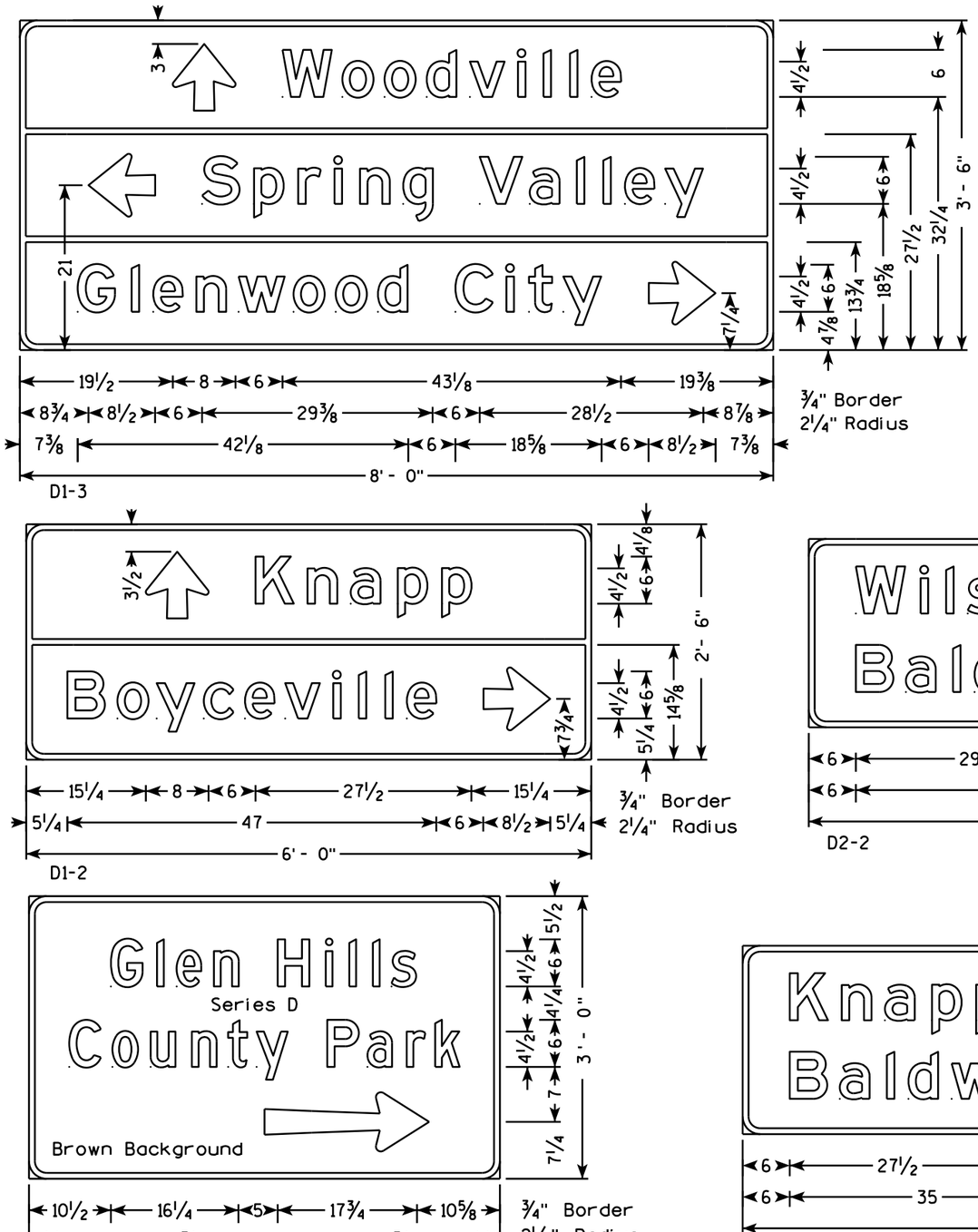
8/2013 DATE

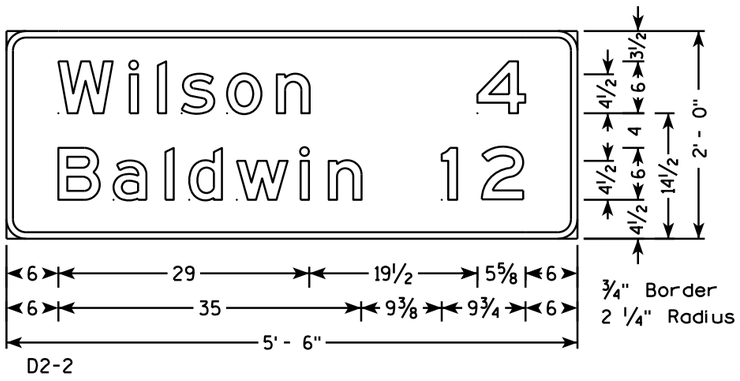
/S/ Travis Feltes
STATE TRAFFIC ENGINEER

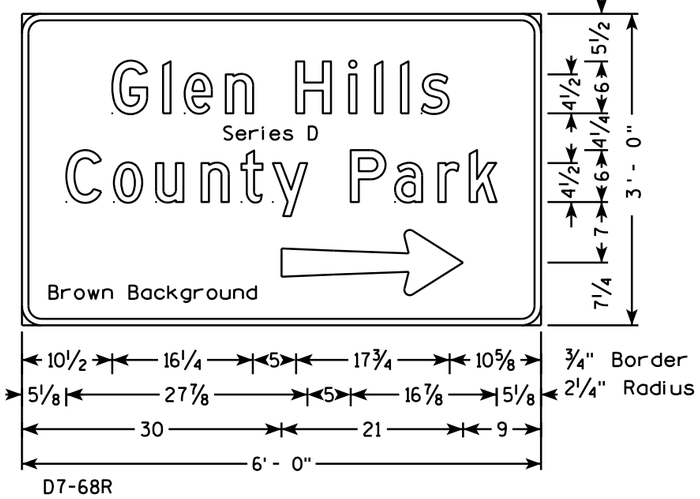
FHWA

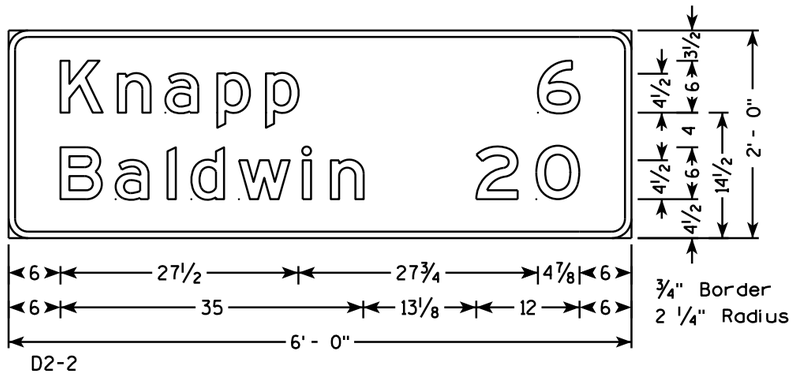
6

S.D.D. 15 D 28-2









NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E except as noted

7

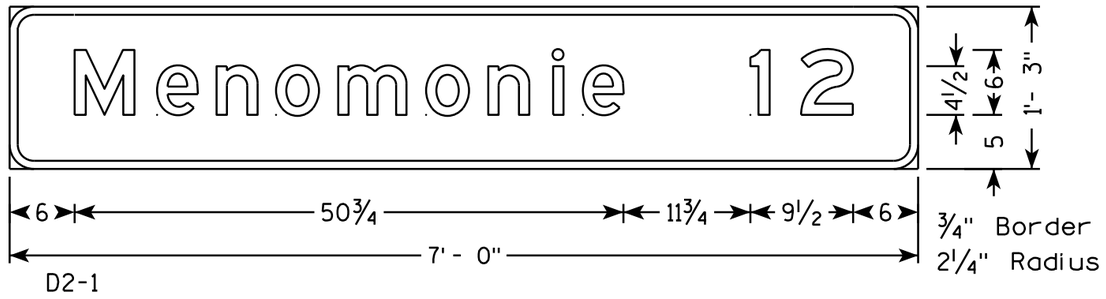
7

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST CROIX	PERMANENT SIGNING	SHEET NO:	E

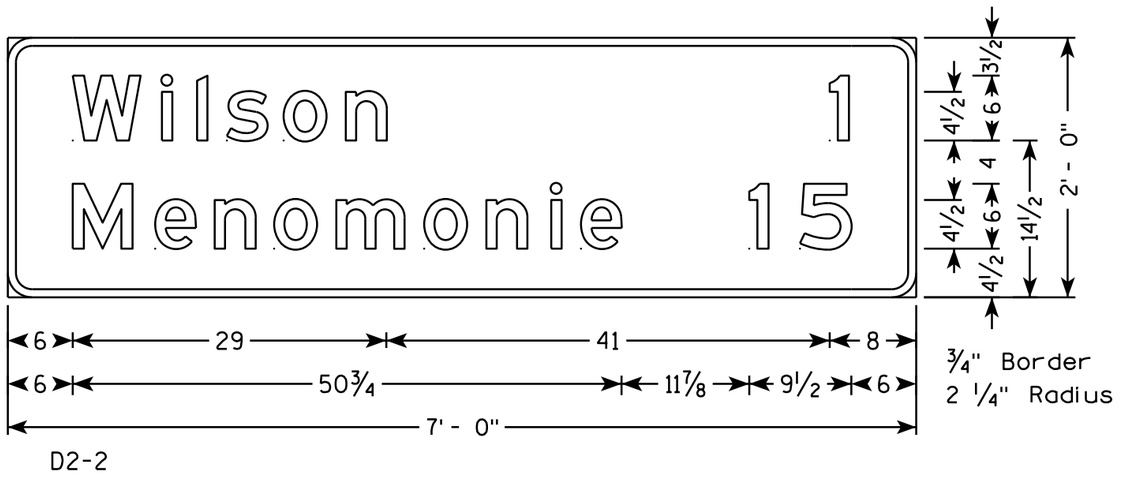
FILE NAME : C:\CAEfiles\Projects\tr_d6\6552A514.DGN PLOT DATE : 12-MAY-2014 13:55 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 17.512577:1.000000
WISDOT/CADDS SHEET 42

NOTES

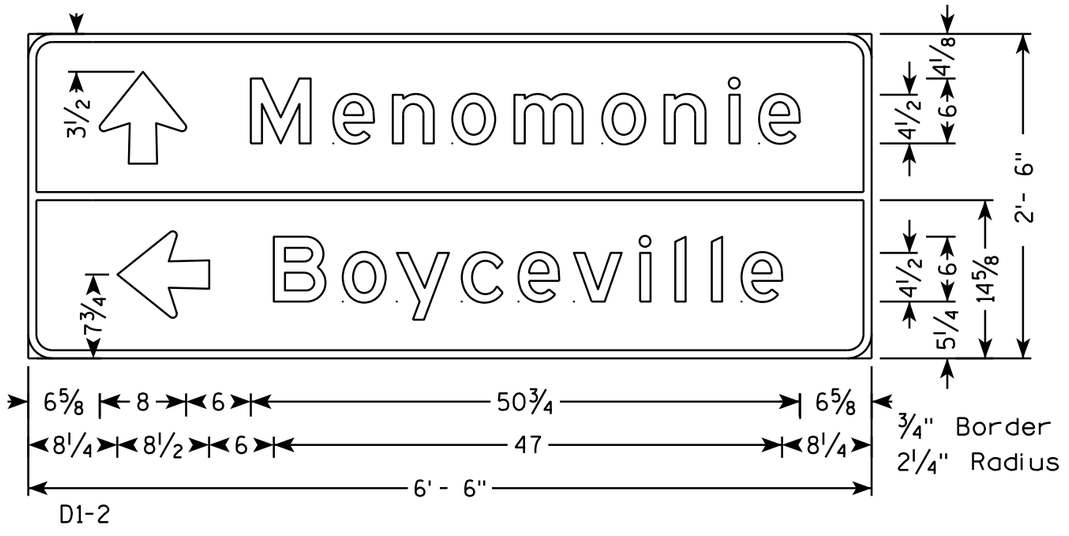
1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White
3. Message Series - E



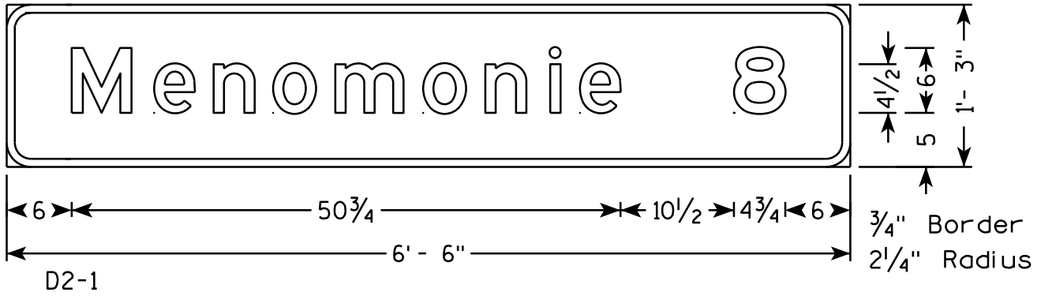
D2-1



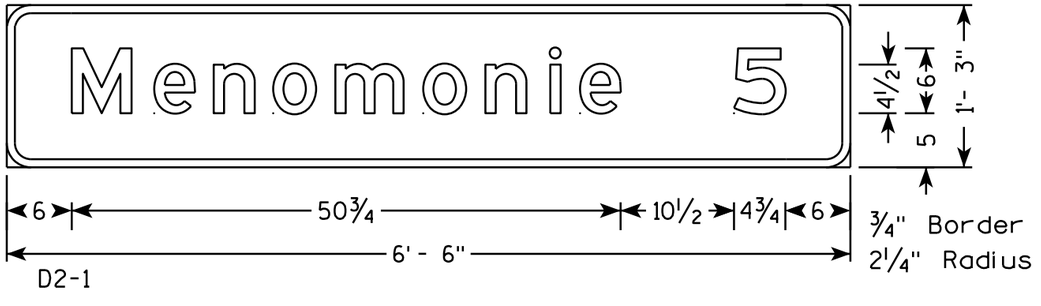
D2-2



D1-2



D2-1



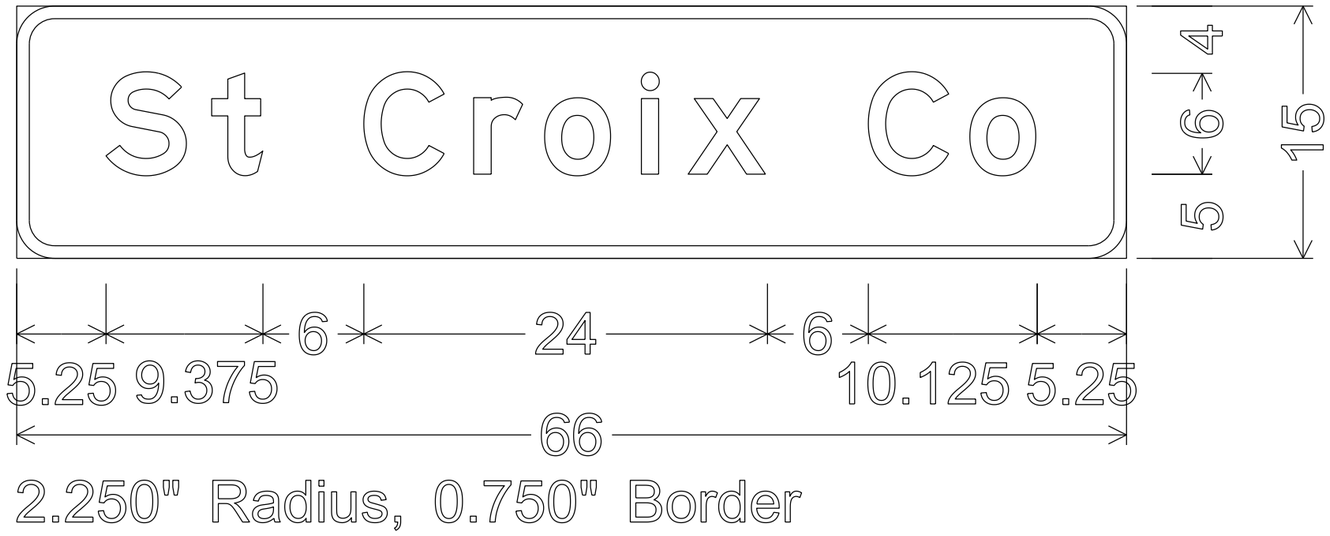
D2-1

7

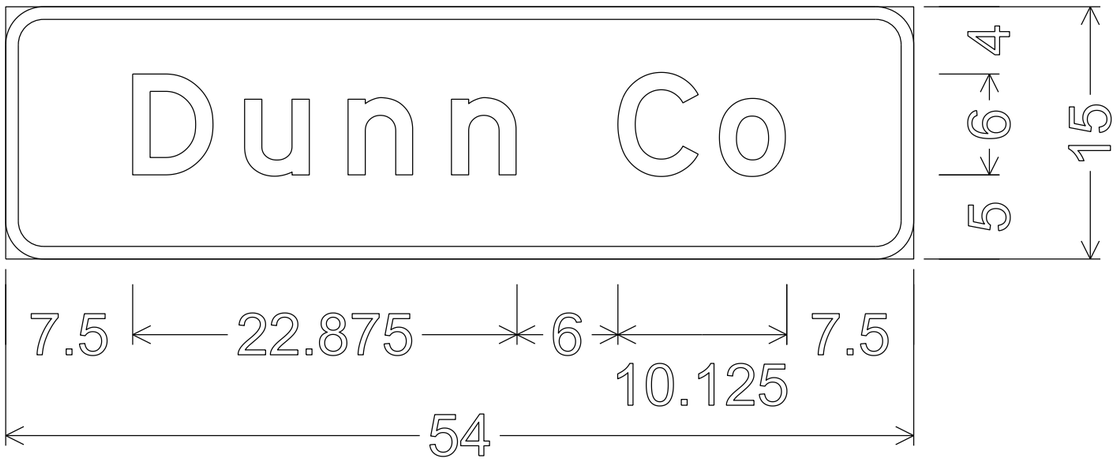
7

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST CROIX	PERMANENT SIGNING	SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_d6\6552A514.DGN PLOT DATE : 12-MAY-2014 13:55 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 14.010062:1.000000 WISDOT/CADDS SHEET 42



2.250" Radius, 0.750" Border



2.250" Radius, 0.750" Border

NOTES

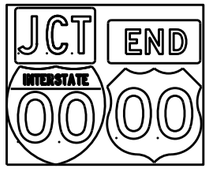
1. Sign is Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E

PROJECT NO: 7090-05-65	HWY: USH 12	COUNTY: ST CROIX	PERMANENT SIGNING	SHEET NO:	E

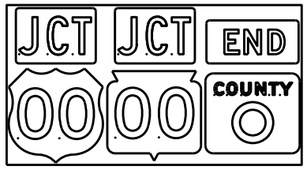
FILE NAME : C:\CAEfiles\Projects\tr_d6\6553ao14.dgn PLOT DATE : 14-OCT-2014 13:58 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 13.515007:1.000000
WISDOT/CADDS SHEET 42

TYPICAL ASSEMBLIES

J1-1

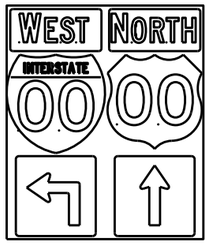


J1-2

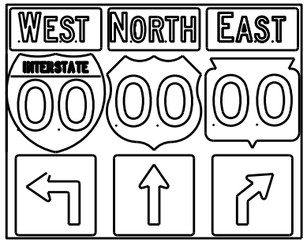


J1-3

J2-1



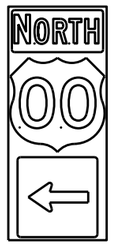
J2-2



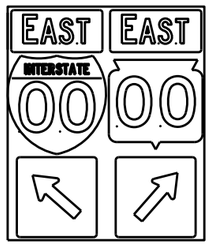
J2-3

JV

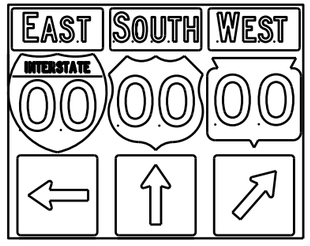
(Typical Vertical J-Assembly
See Note 10 and 11)



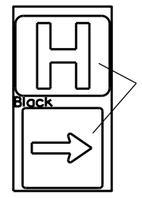
J3-1



J3-2



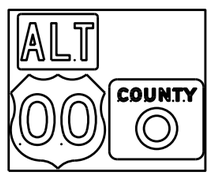
J3-3



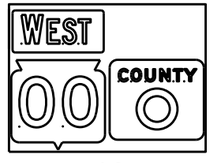
Blue Background

JH-1

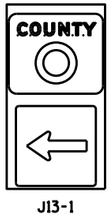
J4-1



J4-2



J4-2



J13-1

J12-1

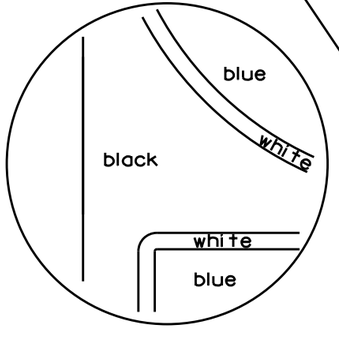
J32-1

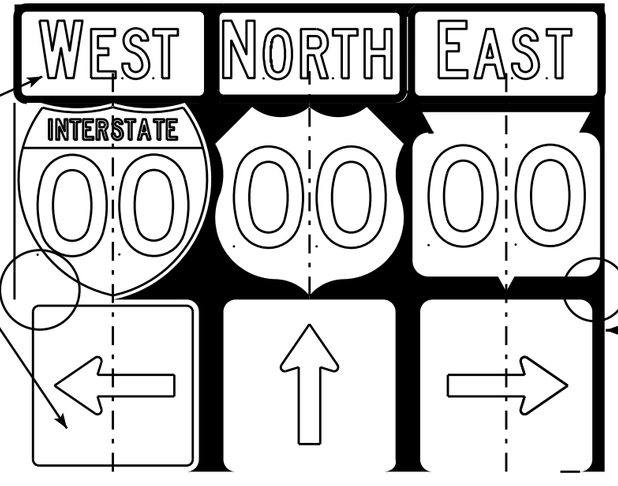
J33-1

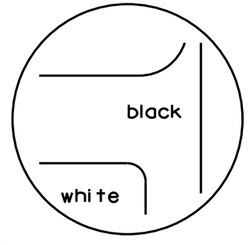
J23-1

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

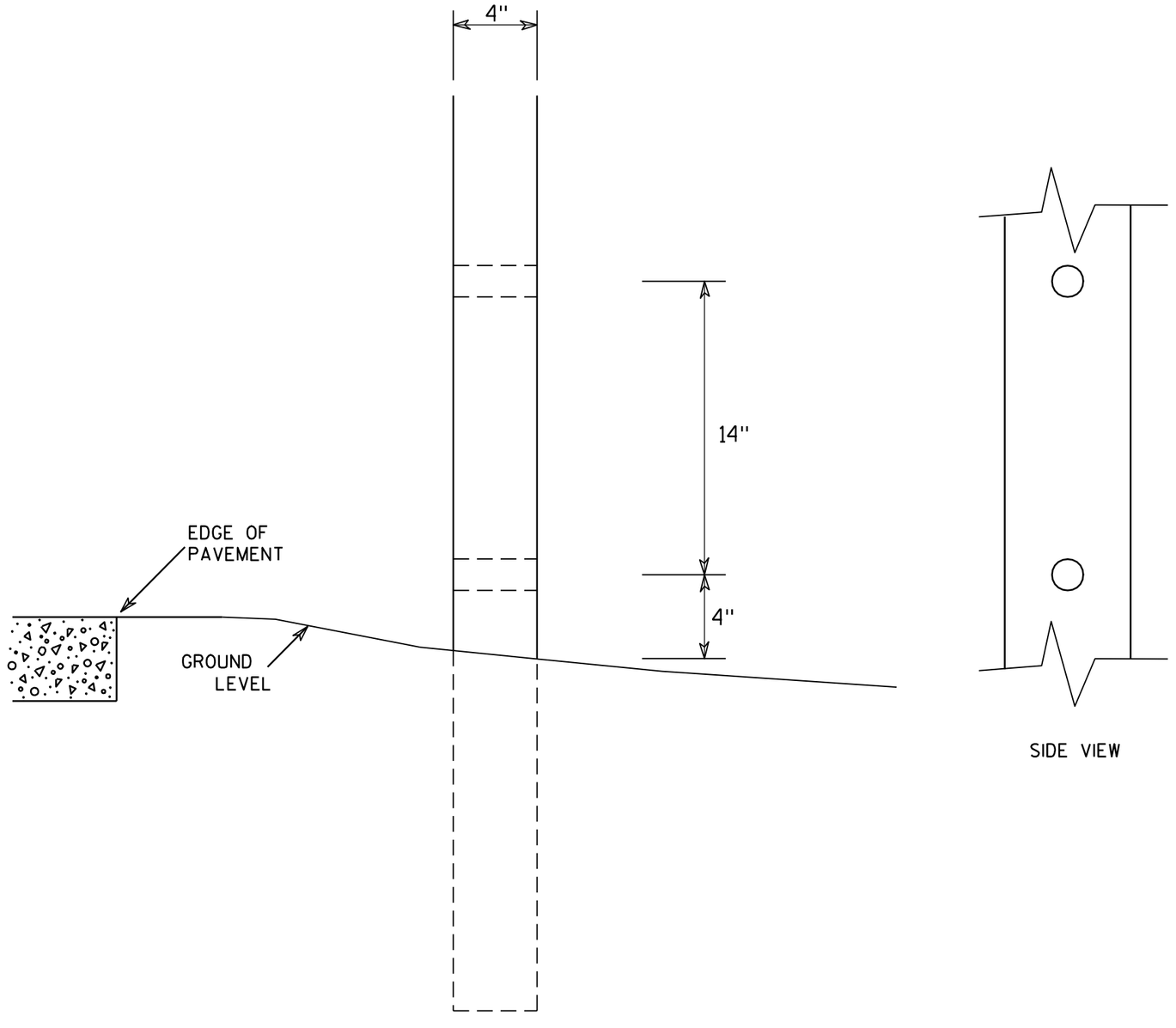
DATE 2/06/14 PL... A2-1S.8

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



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

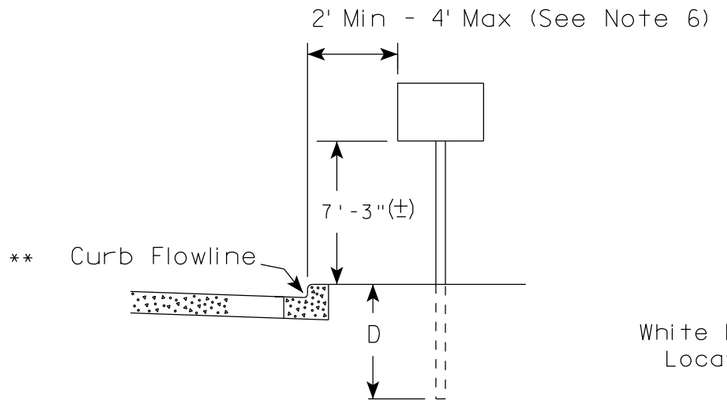
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

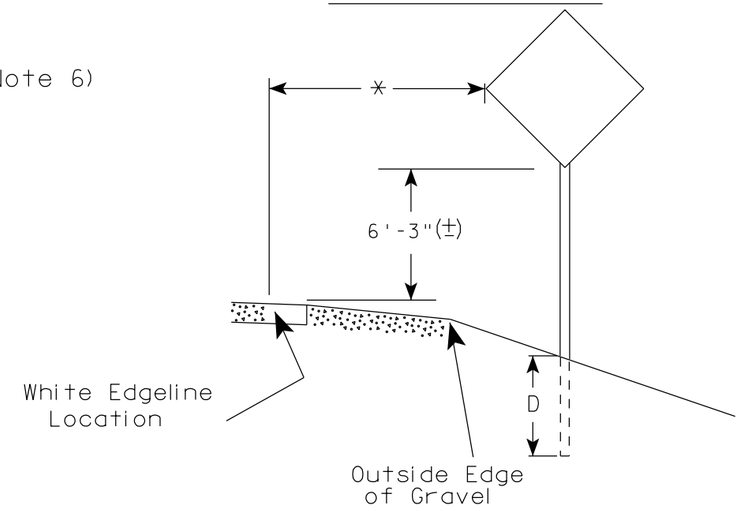
DATE 3/27/97 PLATE NO. A4-11.2

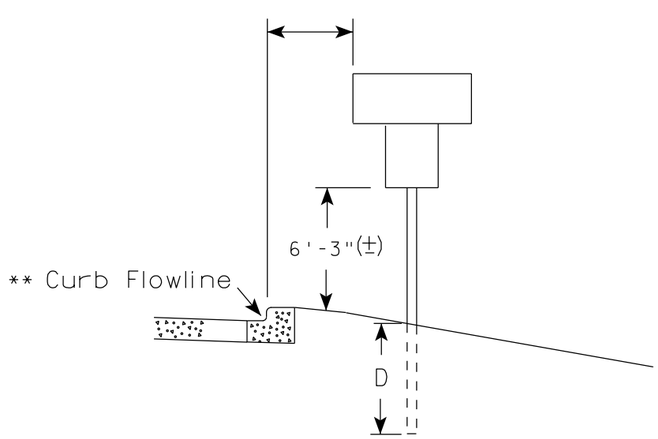
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 161	E

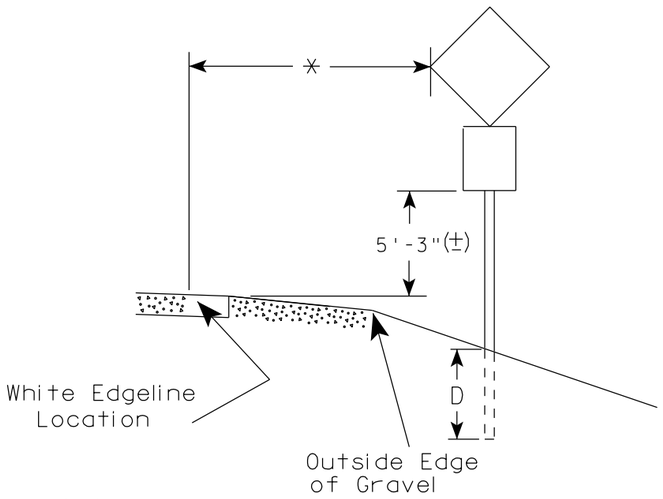
URBAN AREA



RURAL AREA (See Note 2)







GENERAL NOTES

1. Signs wider than 4 feet, 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" (±).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

** 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.

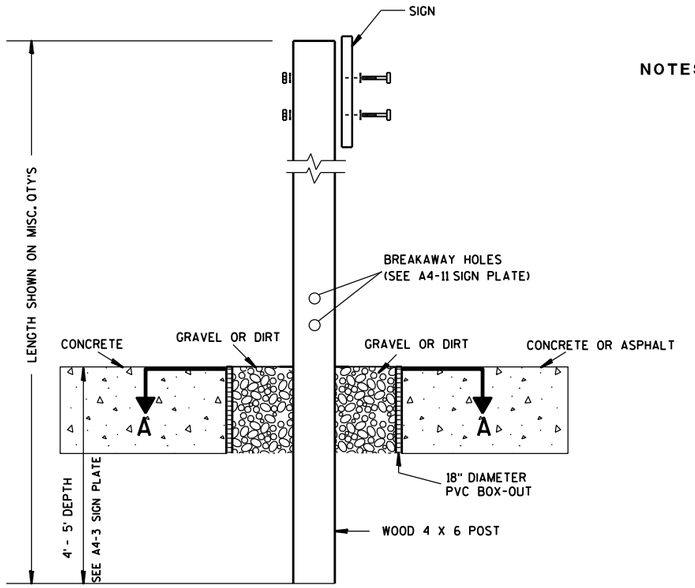
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/14 PLATE NO. A4-3.19

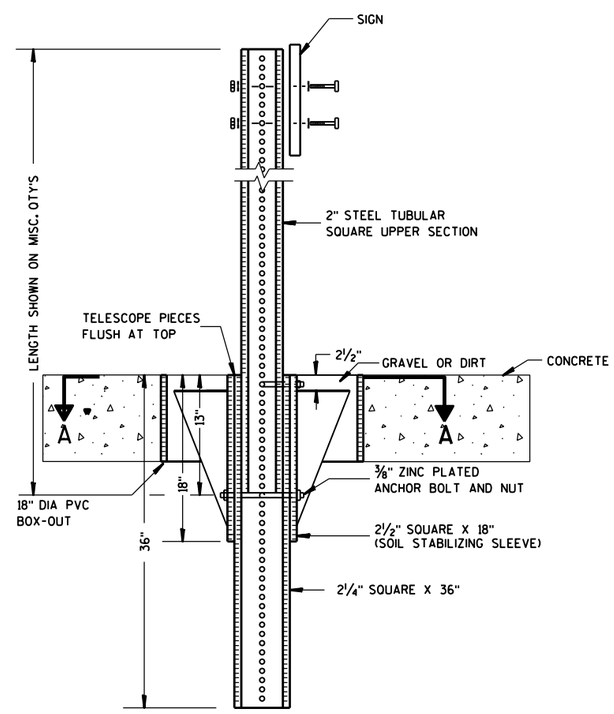
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

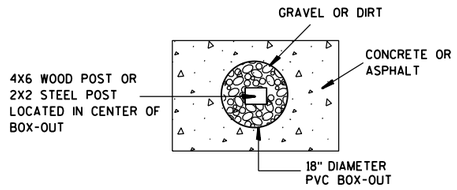
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

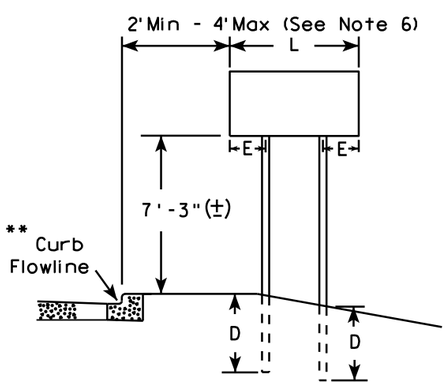
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

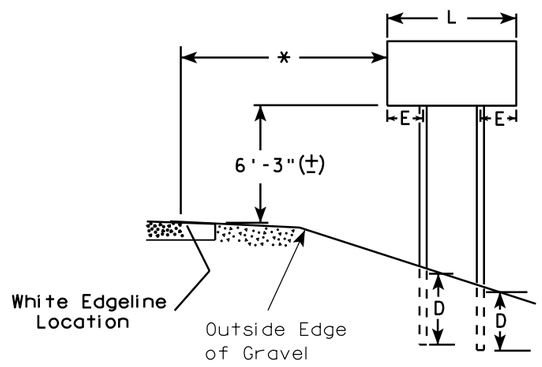
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

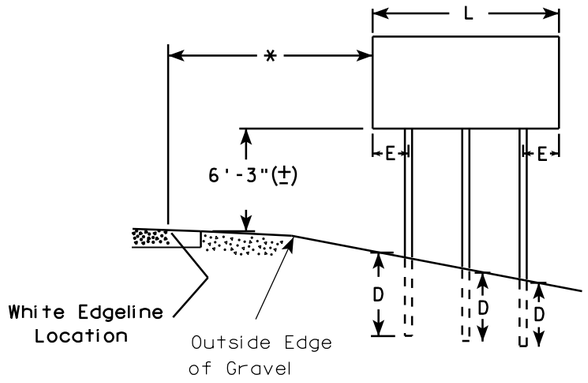
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

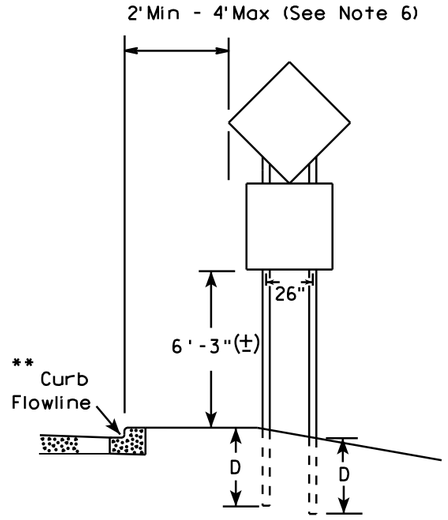
URBAN AREA



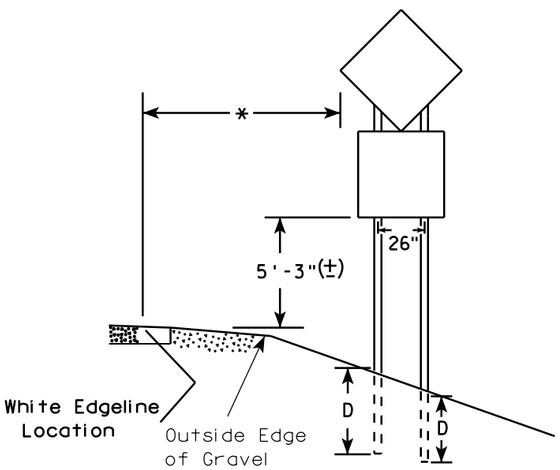
RURAL AREA (See Note 3)







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 or 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

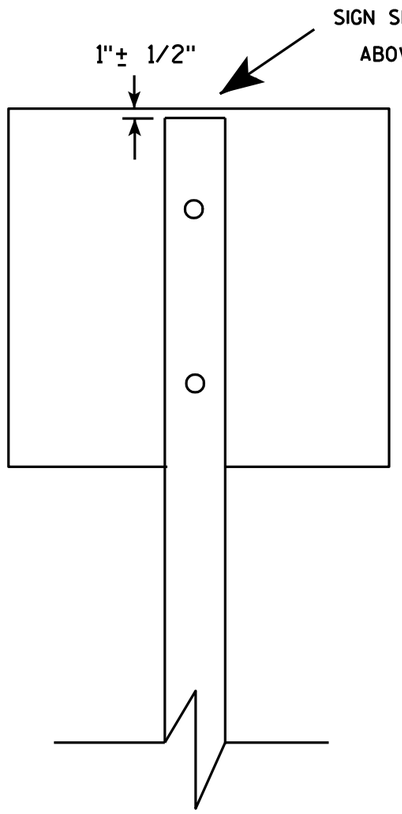
WISCONSIN DEPT OF TRANSPORTATION

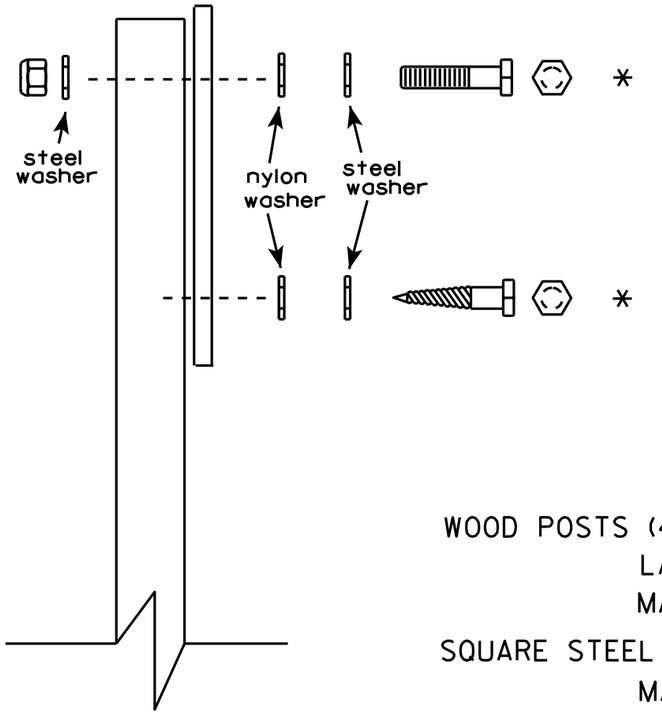
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/14 PLATE NO. A4-4 13

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 12-NOV-2014 14:01 PLOT BY : mscsja 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 :

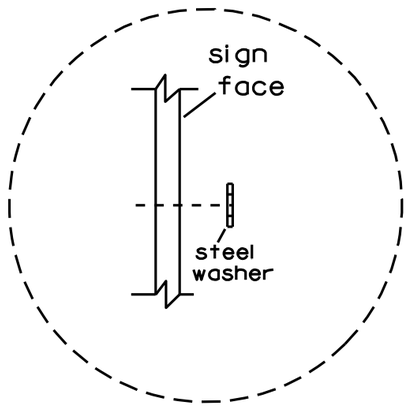
a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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

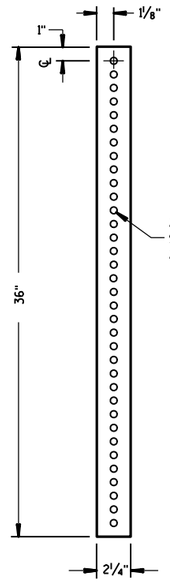
7

PROJECT NO:

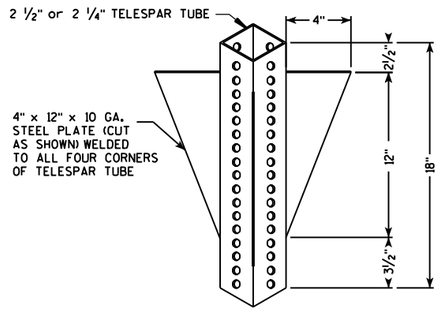
SHEET NO: 165 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

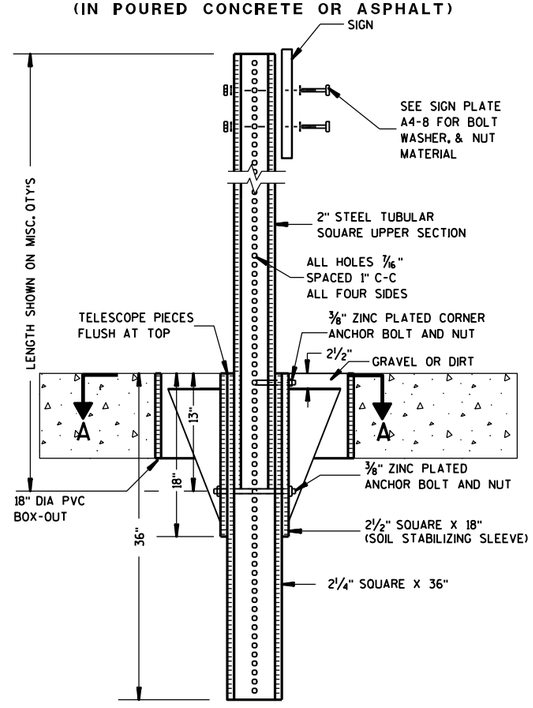
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



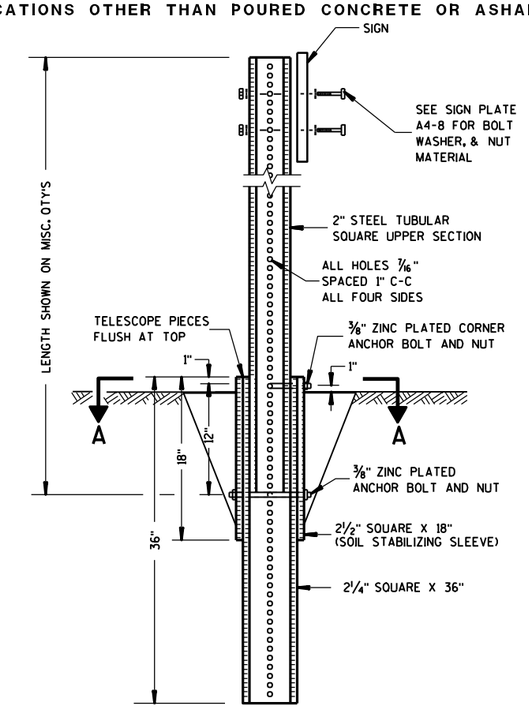
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

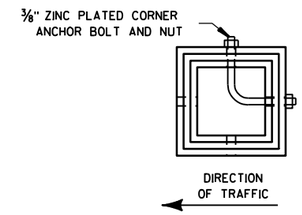


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASHALT)





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).

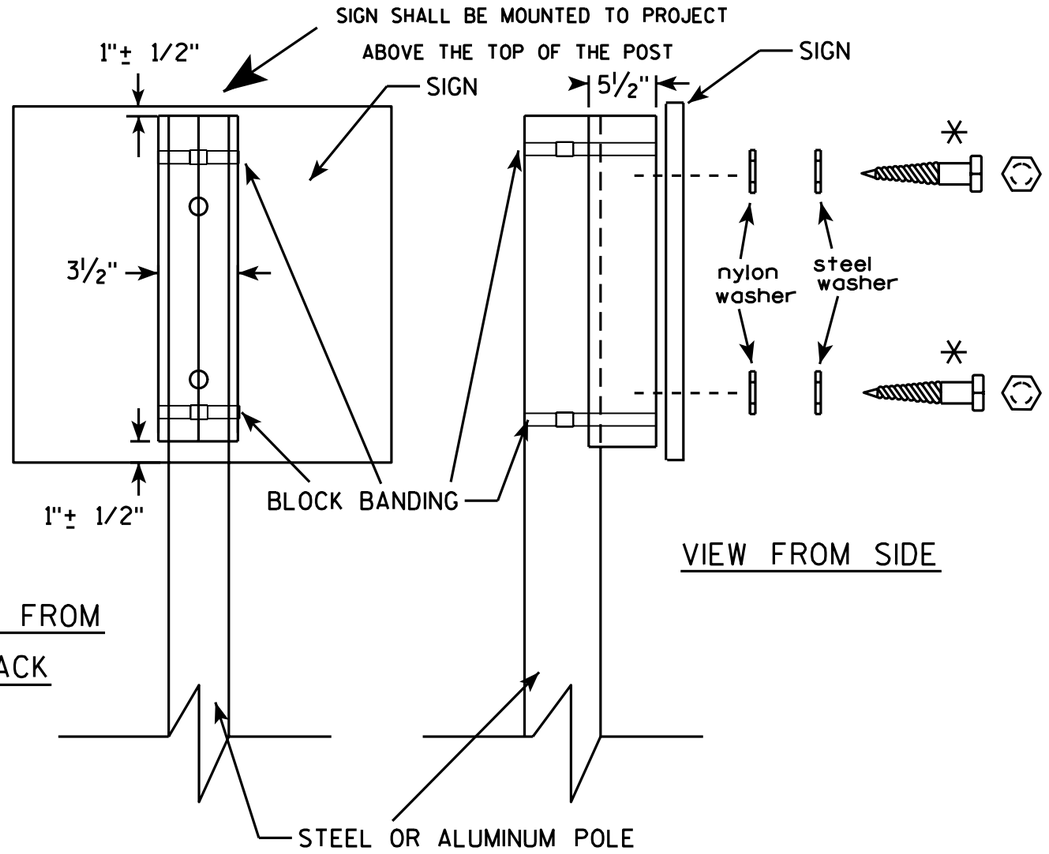
TUBULAR STEEL SIGN POST A4-9

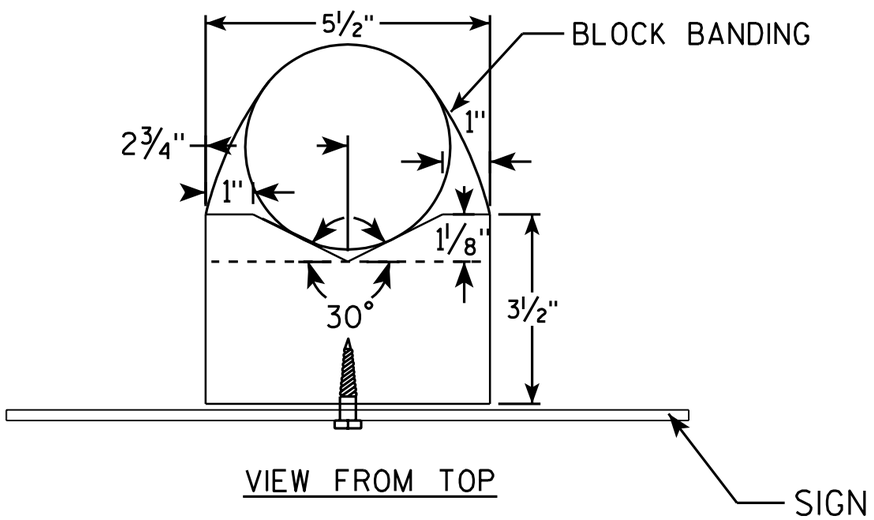
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/30/12 PLATE NO. A4-9.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 166	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

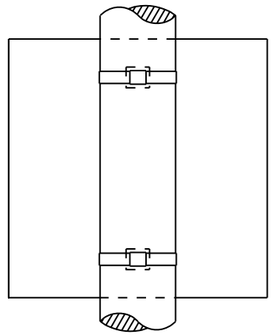
DATE 7/12/07 PLATE NO. A5-10.1

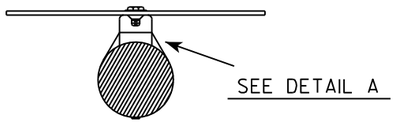
PROJECT NO:

SHEET NO: 167 E

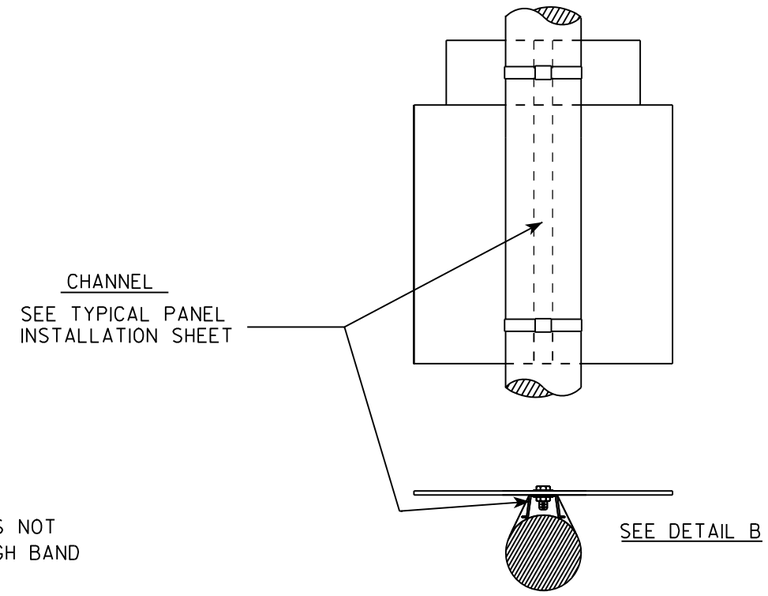
BANDING

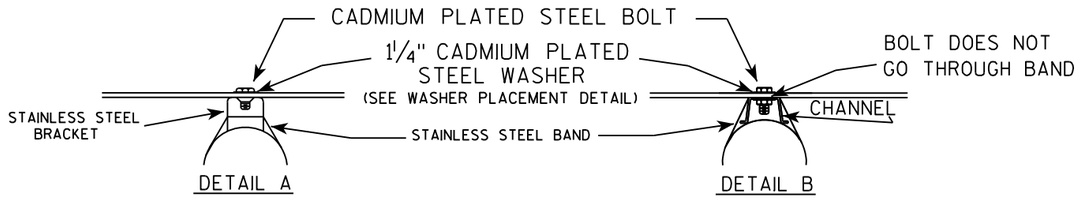
SINGLE SIGN



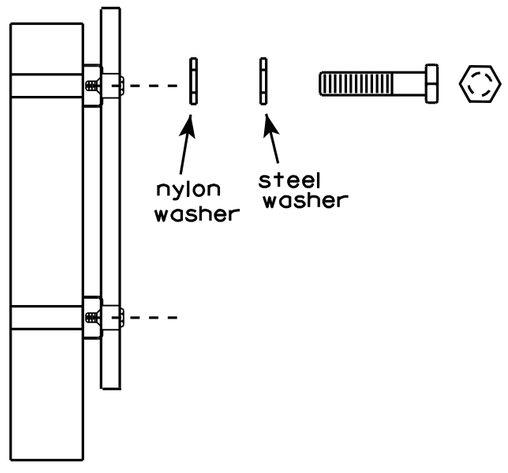


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

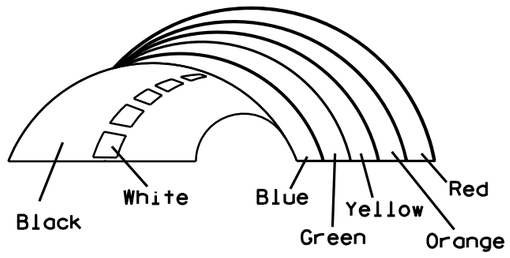
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 168	E

* VARIES

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 - (See Note 6)
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Border - Blue
   Line 1 - Red
   Line 2 - Black
   Line 3-5 - Blue
6. Line 1 - Dutch 8011L
   Line 2 - Series E
   Line 3-5 - Series C
7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

STANDARD SIGN
I55-56

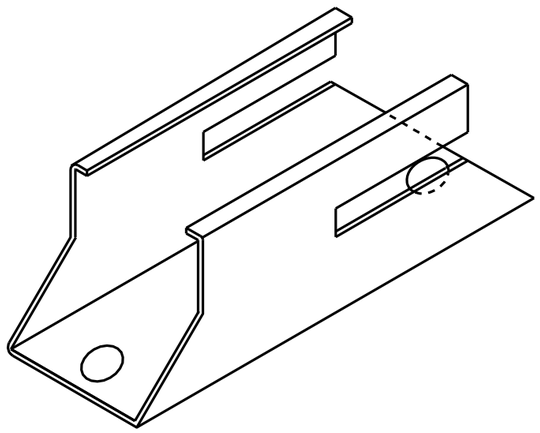
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

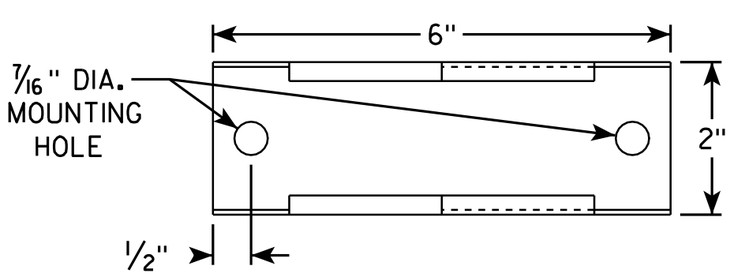
DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 169

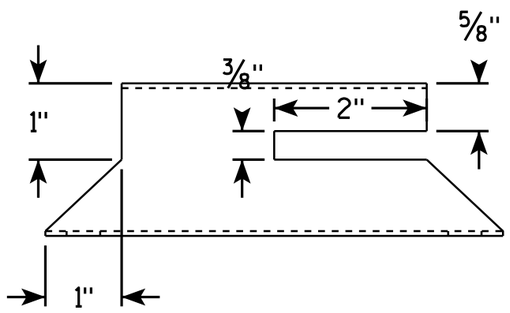
ISOMETRIC VIEW



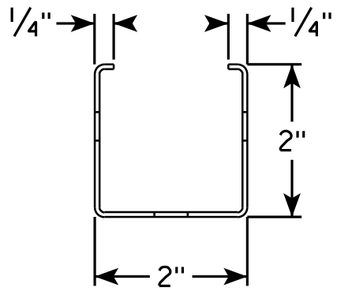
TOP VIEW



SIDE VIEW



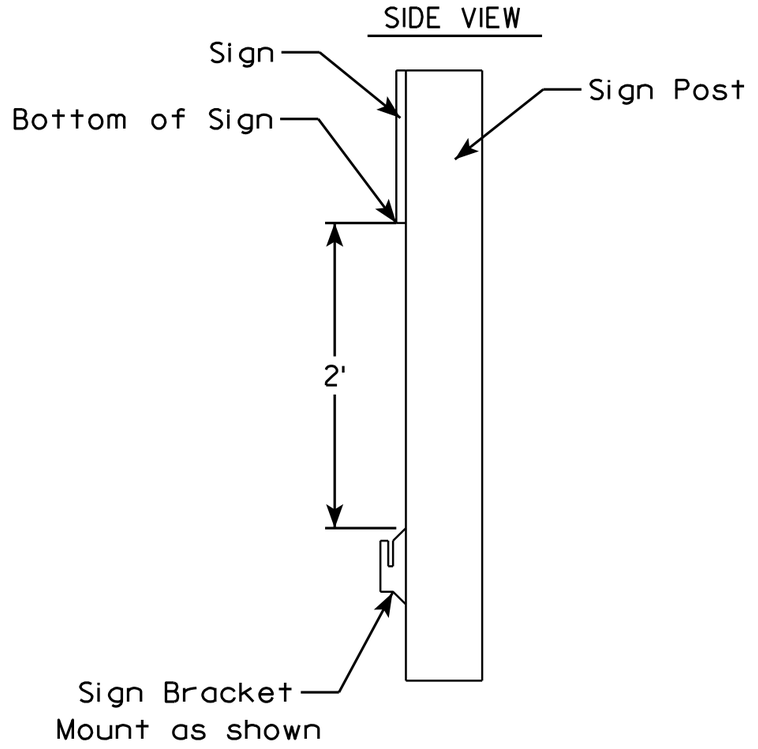
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



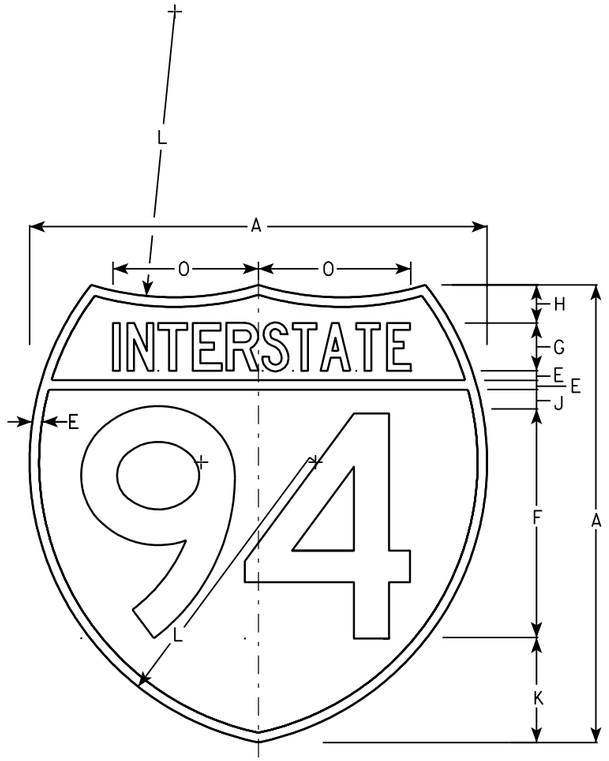
ROLLUP SIGN BRACKET
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

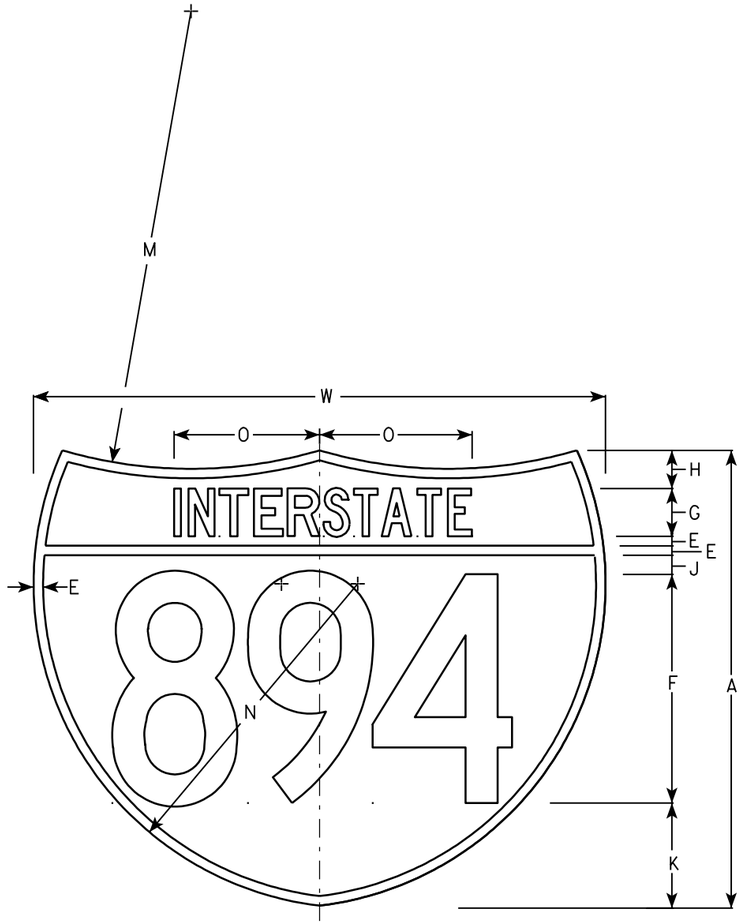
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/10 PLATE NO. I55-56B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 170	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

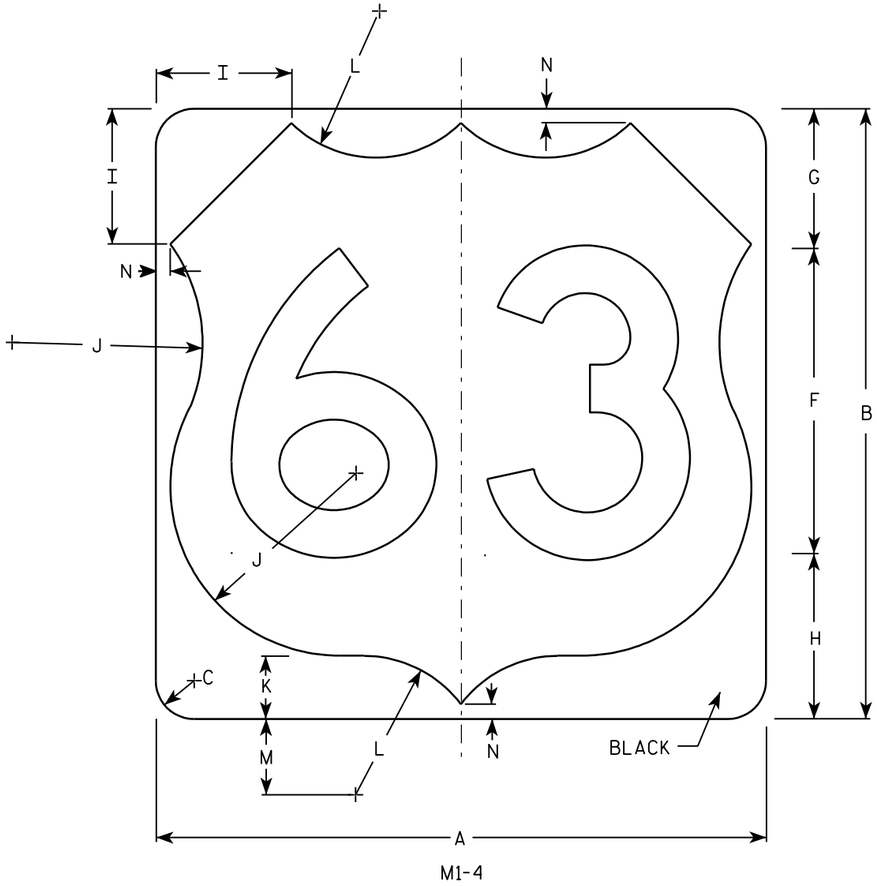
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

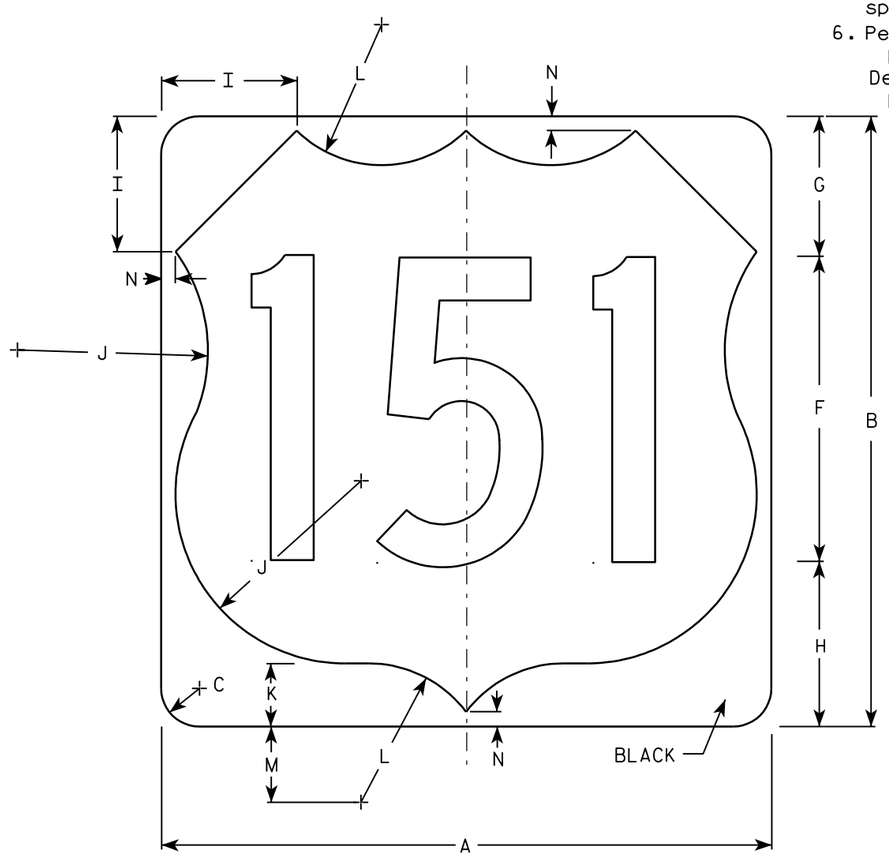
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 171	E

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 ½			12	5 ½	6 ½	5	7 ½	2 ½	5 ½	3	½													4.0	.36
3	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0	.81
4	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0	.81
5	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0	.81

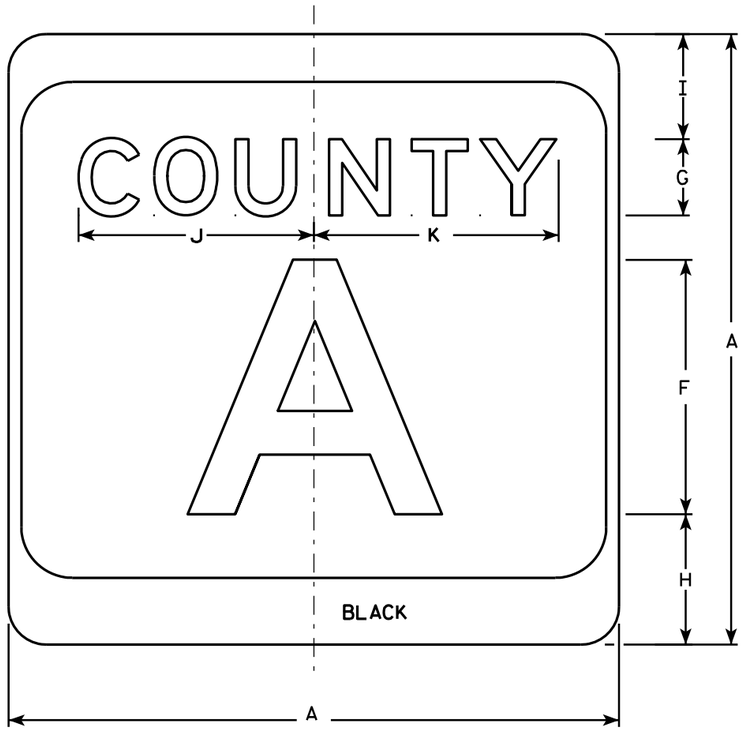
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

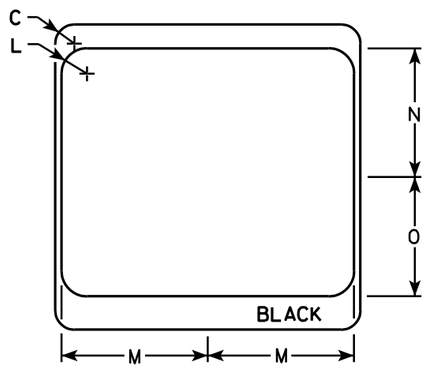
APPROVED Matthew R Rauch
for State Traffic Engineer

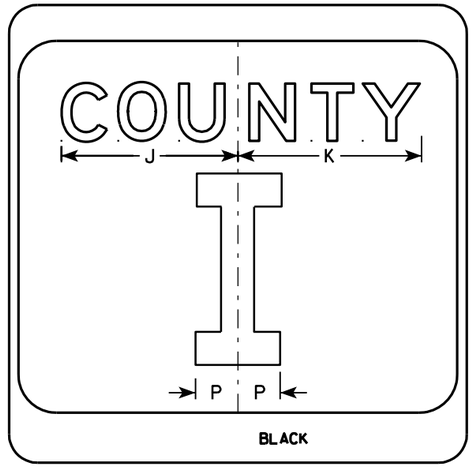
DATE 08/25/05 PLATE NO. M1-4.9

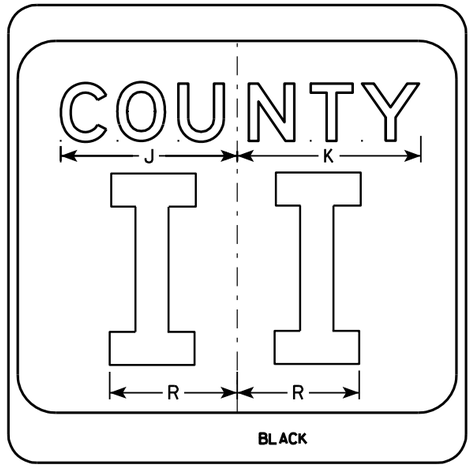
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 172 | E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

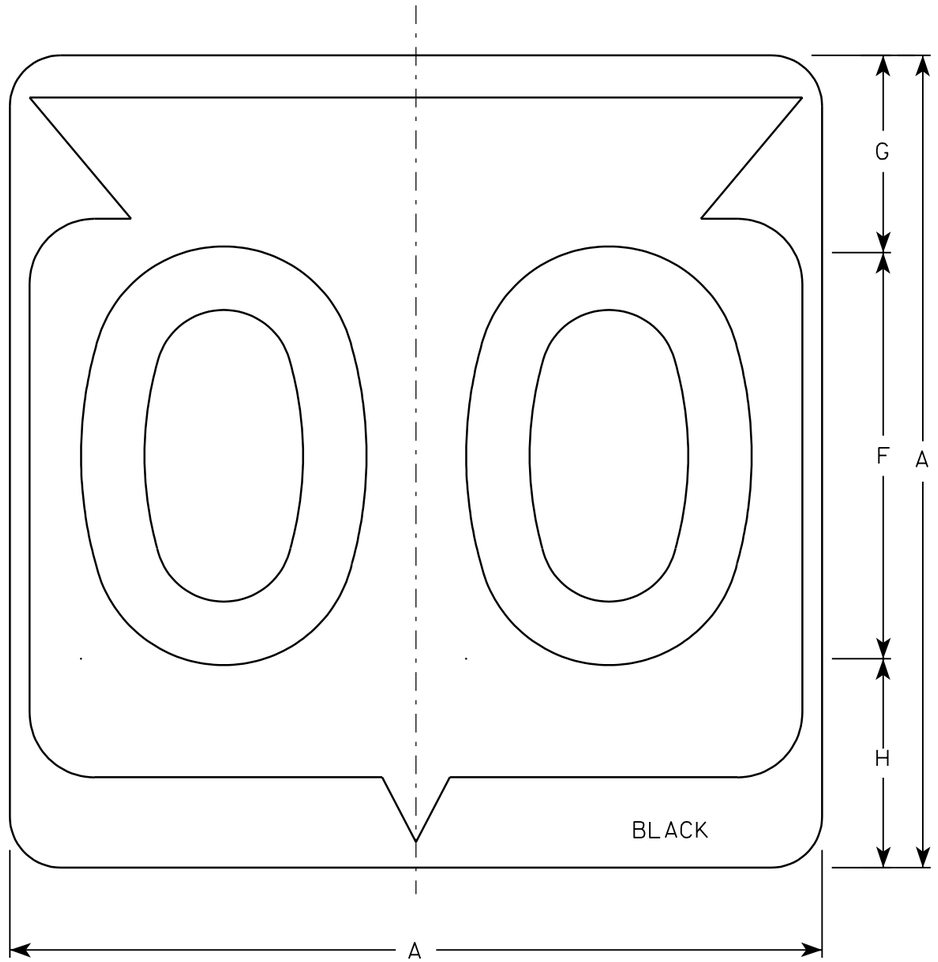
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

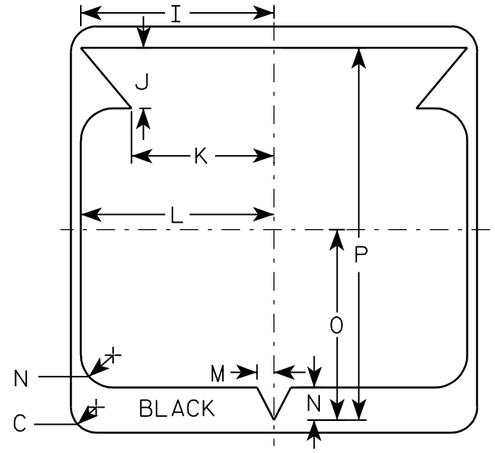
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 173	E



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

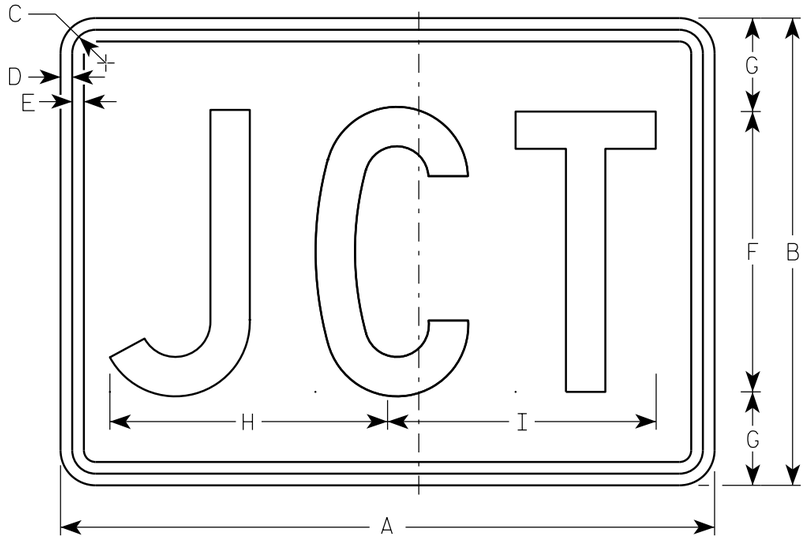
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

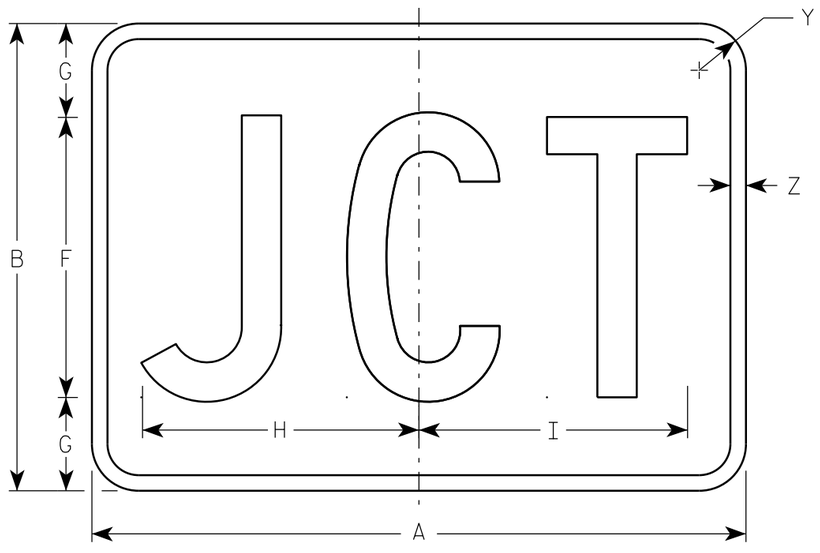
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 174	E



M2-1
MK2-1
MM2-1
MN2-1
MR2-1



MB2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

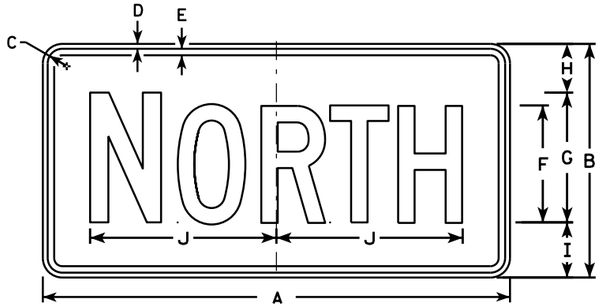
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

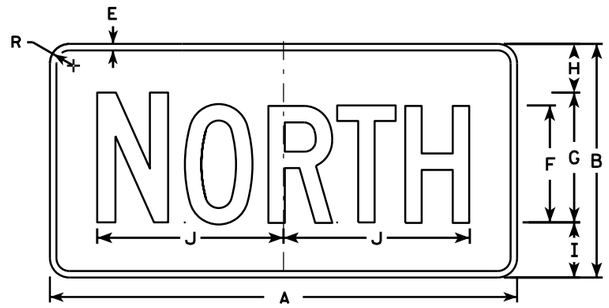
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/30/14 PLATE 175 12-1.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

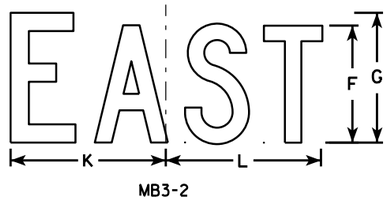


M3-1
MK3-1
MM3-1
MN3-1

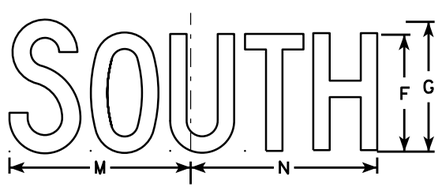


MB3-1

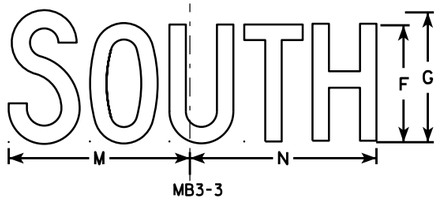
M3-2
MK3-2
MM3-2
MN3-2



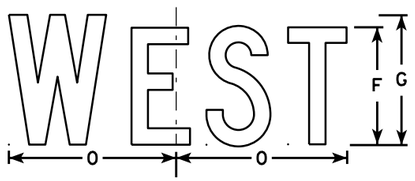
MB3-2



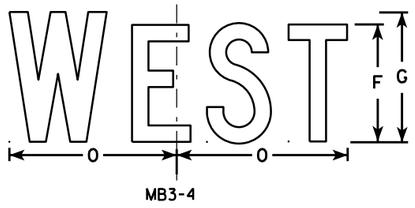
M3-3
MK3-3
MM3-3
MN3-3



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

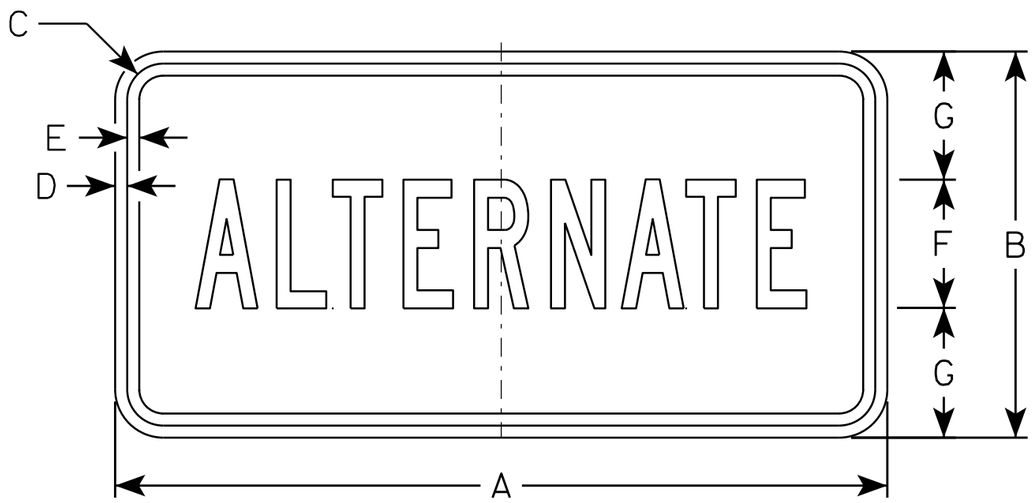
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

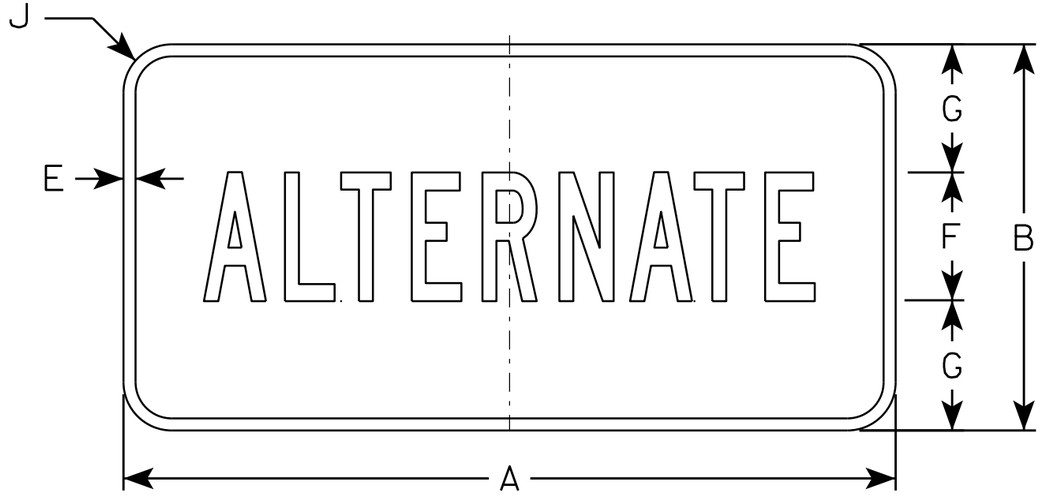
DATE 6/30/14 PLATE NO M3-1.13

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

7



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

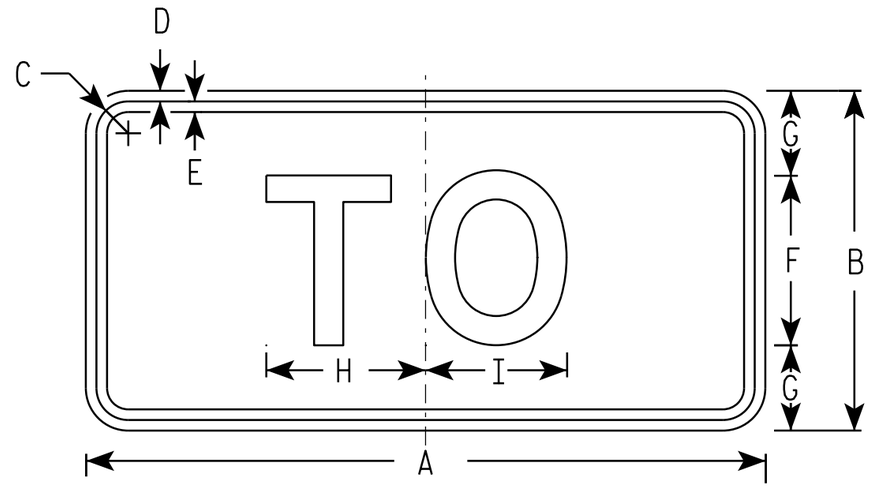
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

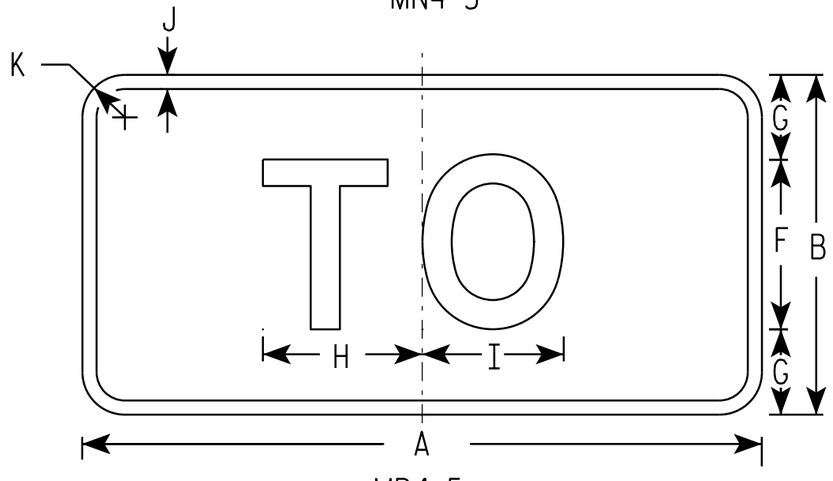
DATE 6/30/14 PLATE 14-1.8

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



M4-5
MK4-5
MM4-5
MN4-5



MB4-5

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

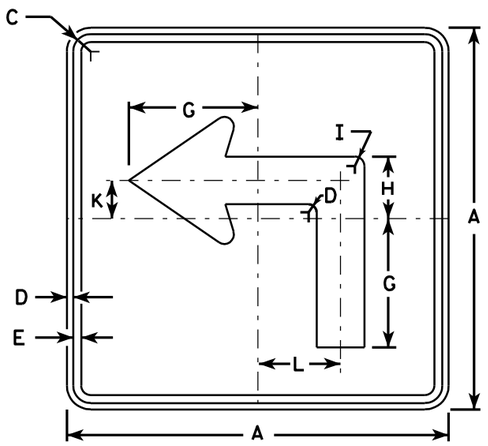
STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

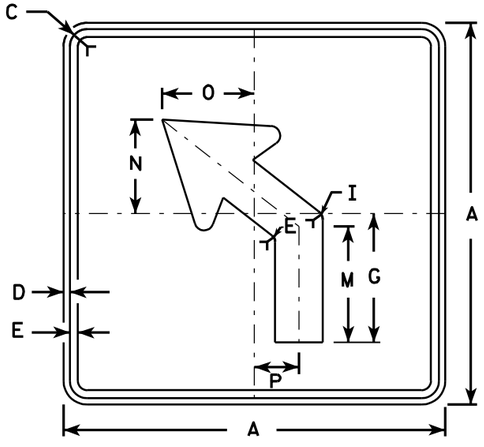
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/14 PLATE M4-5.7

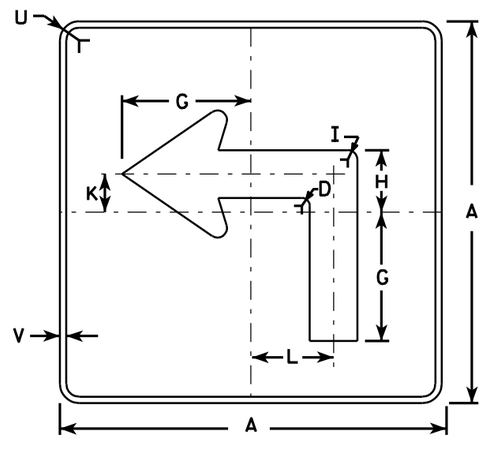
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



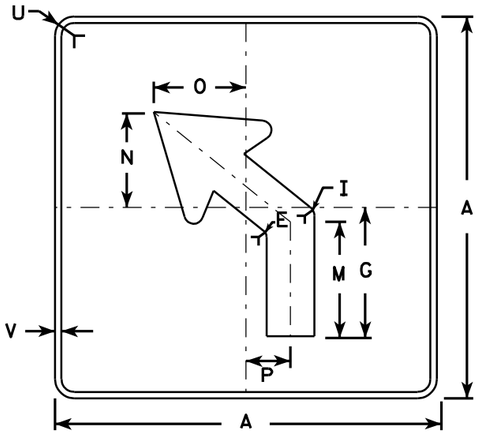
M5-1L
MK5-1L
MM5-1L
MO5-1L
MP5-1L
MR5-1L



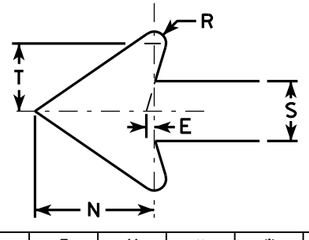
M5-2L
MK5-2L
MM5-2L
MO5-2L
MP5-2L
MR5-2L



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

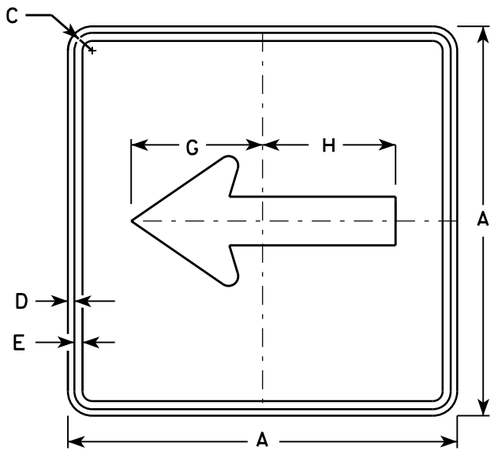
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

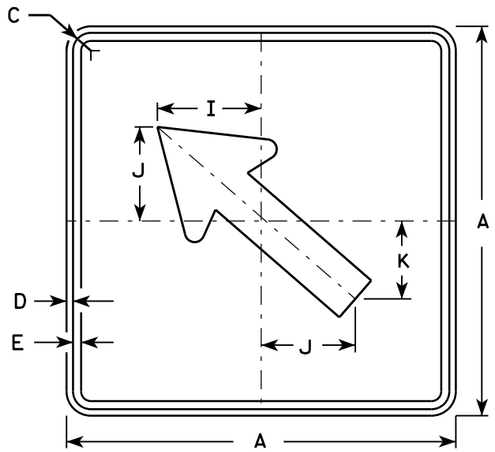
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/29/13 PLATE NO. M5-1.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 179 | E



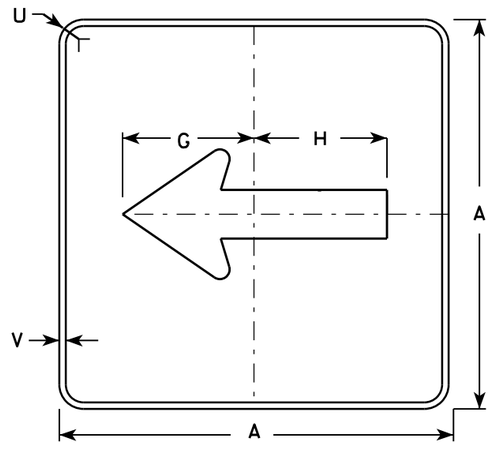
M6-1
MK6-1
MM6-1
MN6-1
MO6-1
MP6-1
MR6-1



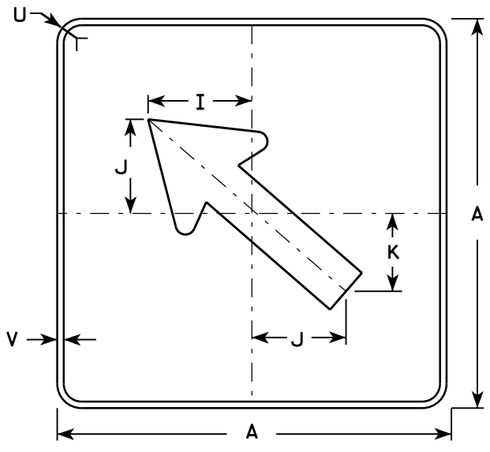
M6-2
MK6-2
MM6-2
MN6-2
MO6-2
MP6-2
MR6-2

NOTES

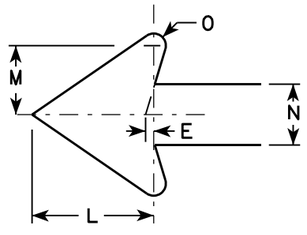
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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

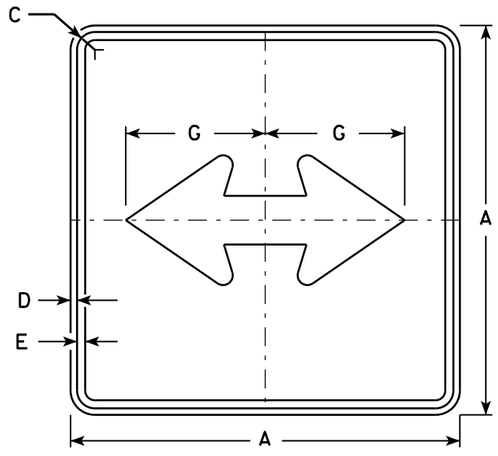
STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

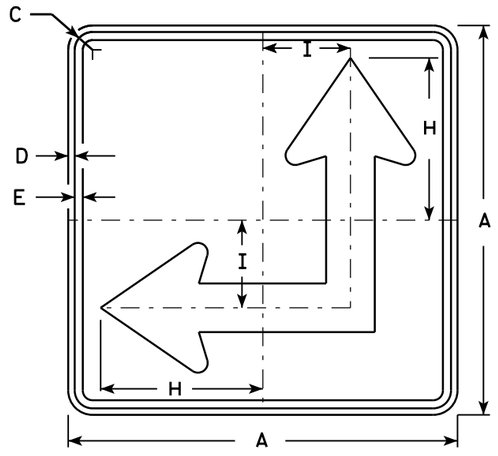
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/03/14 PLATE 180 M6-1.14

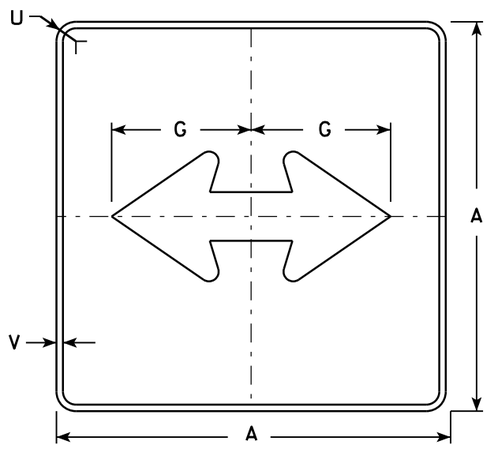
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



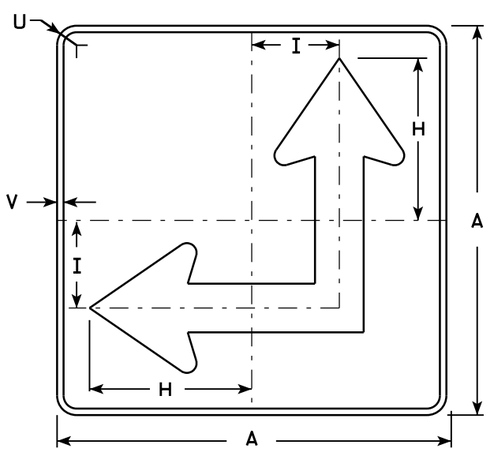
M6-4
MK6-4
MM6-4
MN6-4
MO6-4
MP6-4
MR6-4



M6-6
MK6-6
MM6-6
MN6-6
MO6-6
MP6-6
MR6-6



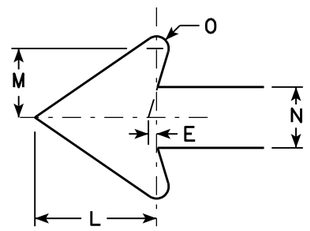
MB6-4



MB6-6

NOTES

1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN M6-4 & M6-6 SERIES

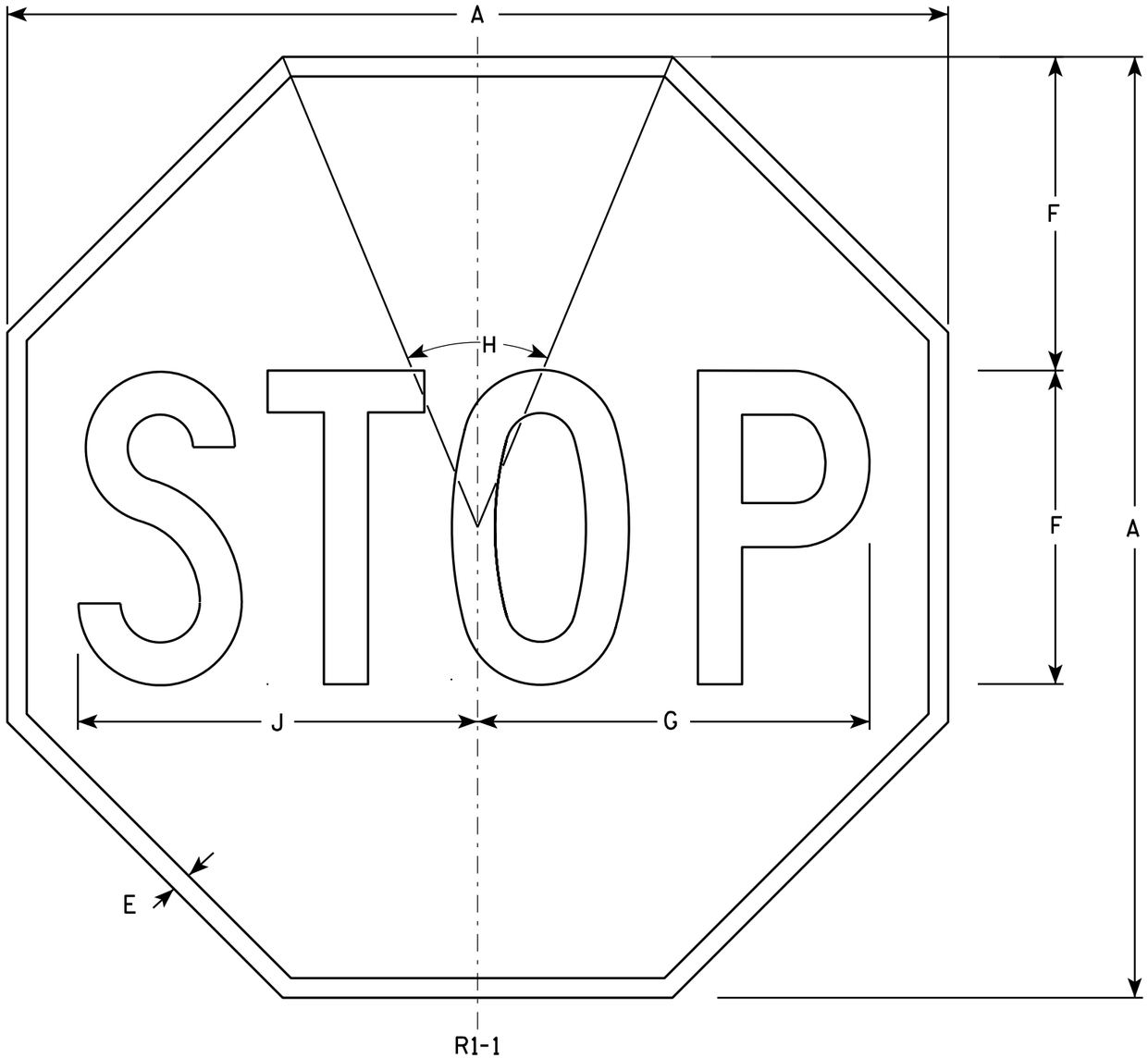
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 7/03/14 PLATE M6-4.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 03-JUL-2014 14:56 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	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

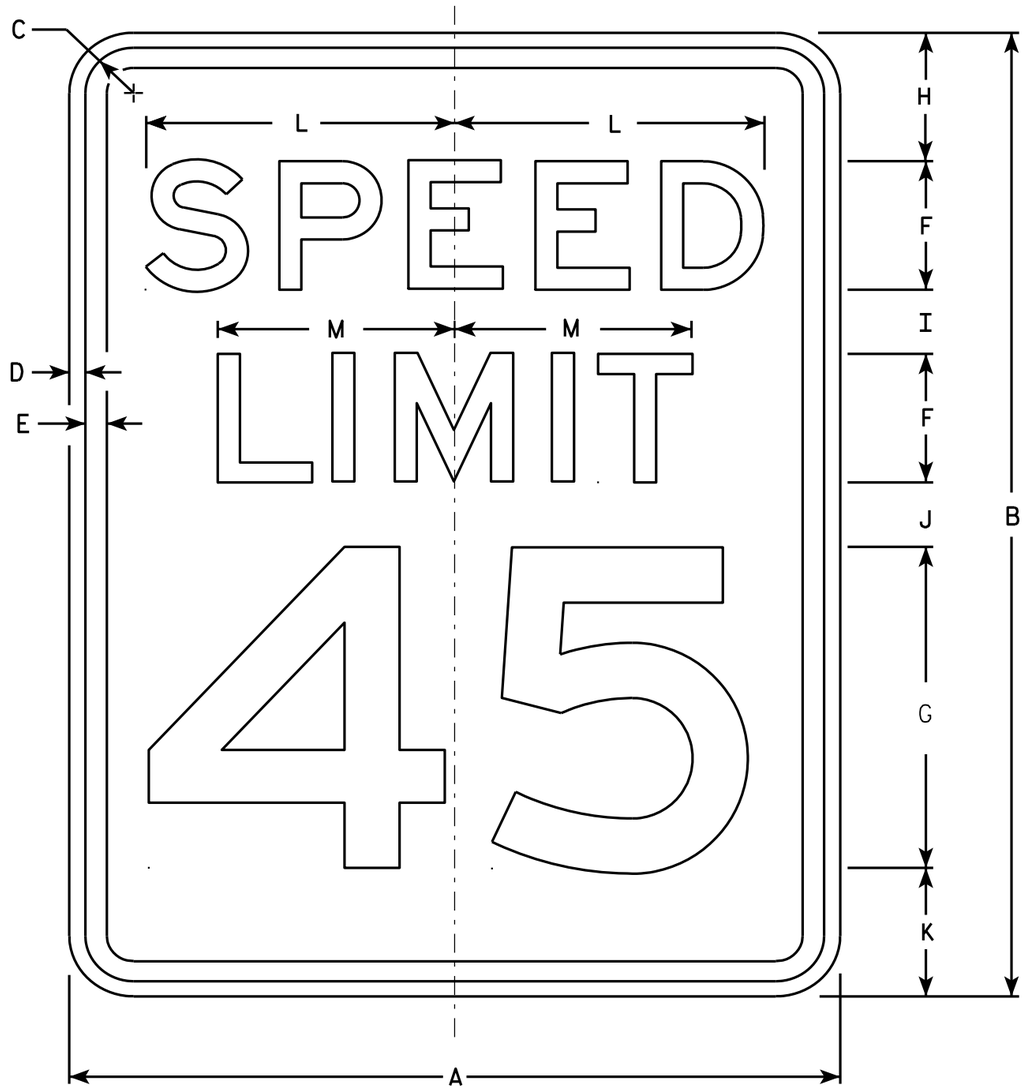
STANDARD SIGN
R1-1

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: 182	E



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

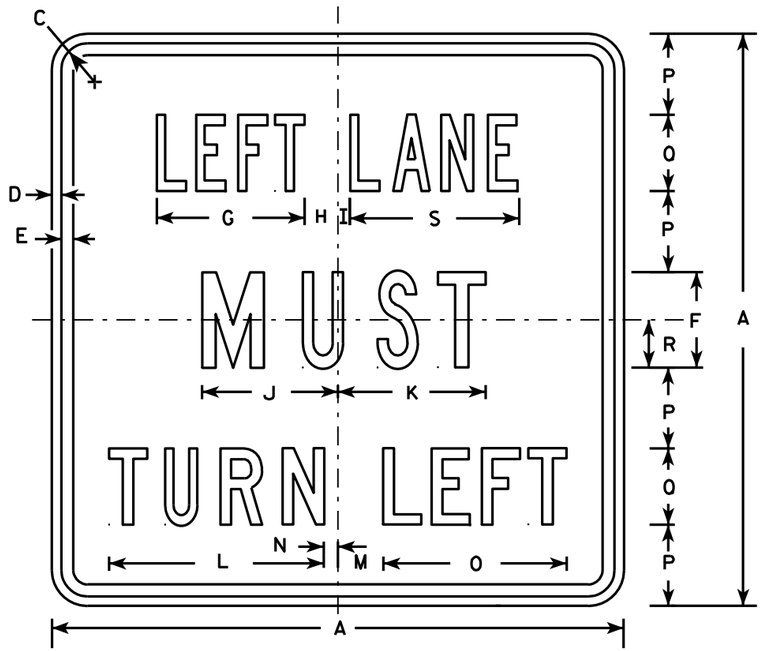
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

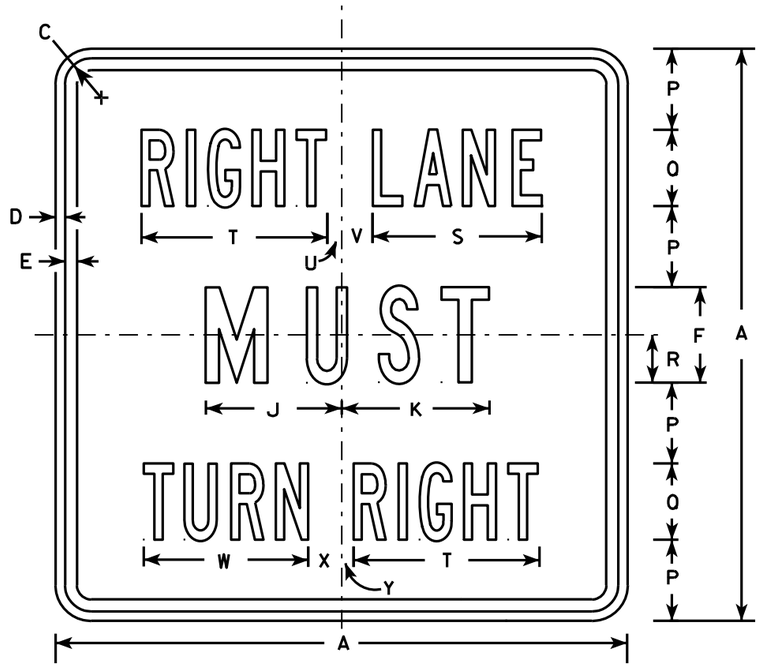
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 183 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000

WISDOT/CADDS SHEET 42



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

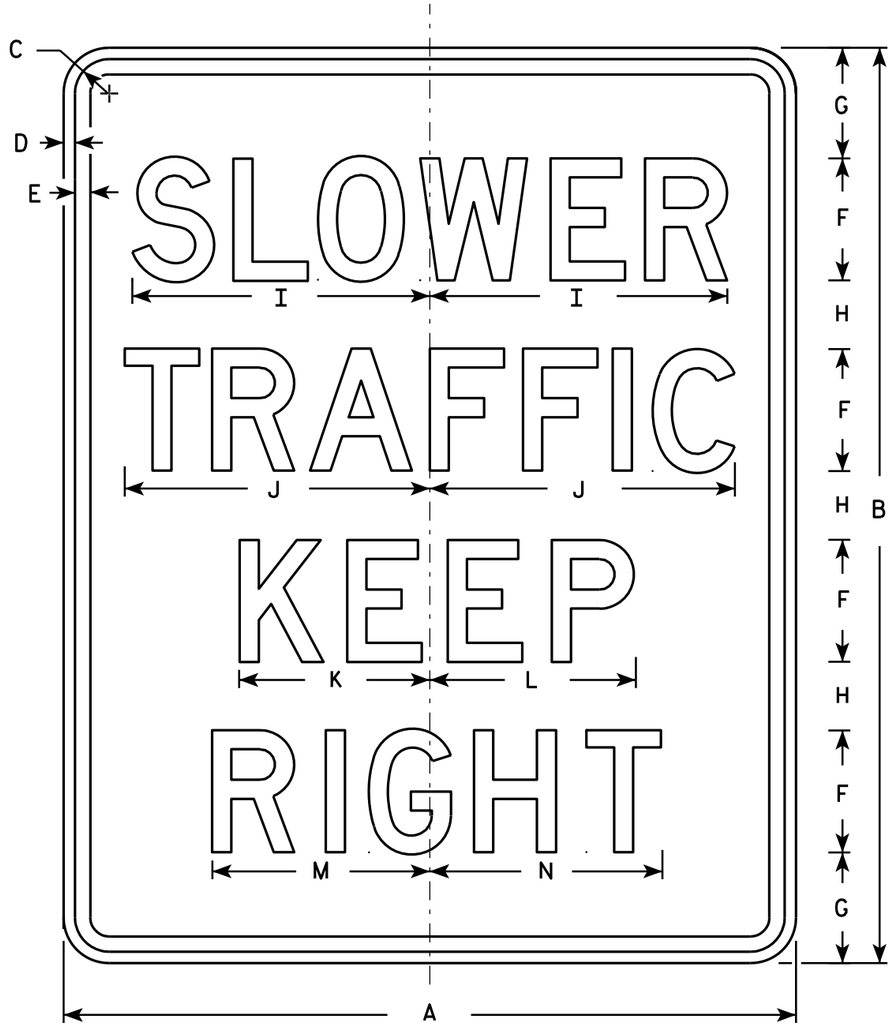
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 184 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R37.DGN PLOT DATE : 18-MAR-2011 09:43 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.945391:1.000000

WISDOT/CADDS SHEET 42



R4-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
2M	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
3	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
4	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
5	48	60	2 1/4	3/4	1	8	7 1/4	4 1/2	19 1/2	20	12 1/2	13 1/2	14 1/4	15 1/4													20.0

STANDARD SIGN
R4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-3.8

PROJECT NO:

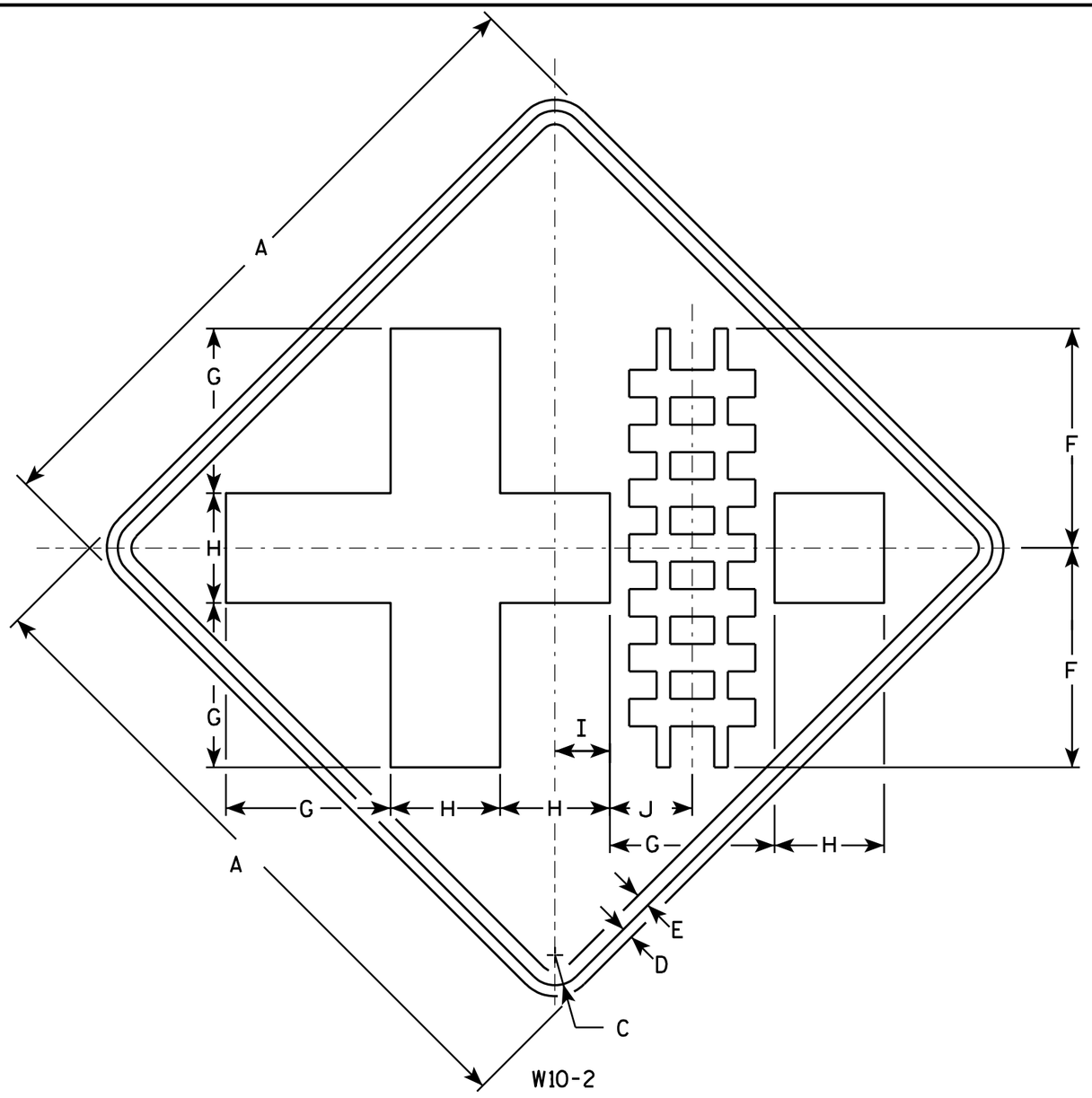
SHEET NO: 185 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R43.DGN PLOT DATE : 25-MAR-2011 13:40 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

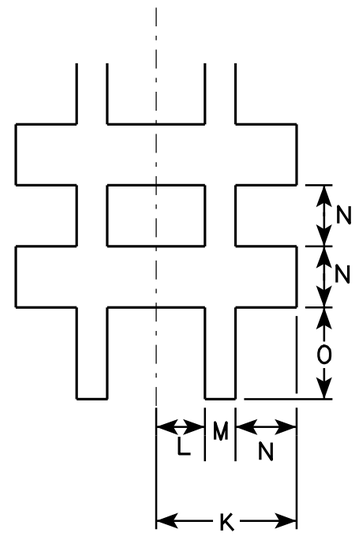
7

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. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	7 1/2	5	2 1/2	3 3/4	2 7/8	1	5/8	1 1/4	1 7/8												6.25
2S	36		1 5/8	5/8	3/4	12	9	6	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
2M	36		1 5/8	5/8	3/4	12	9	6	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
3	36		1 5/8	5/8	3/4	12	9	6	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
4	48		2 1/4	3/4	1	16	12	8	4	6	4 1/2	1 1/2	1	2	3												16.0
5																											

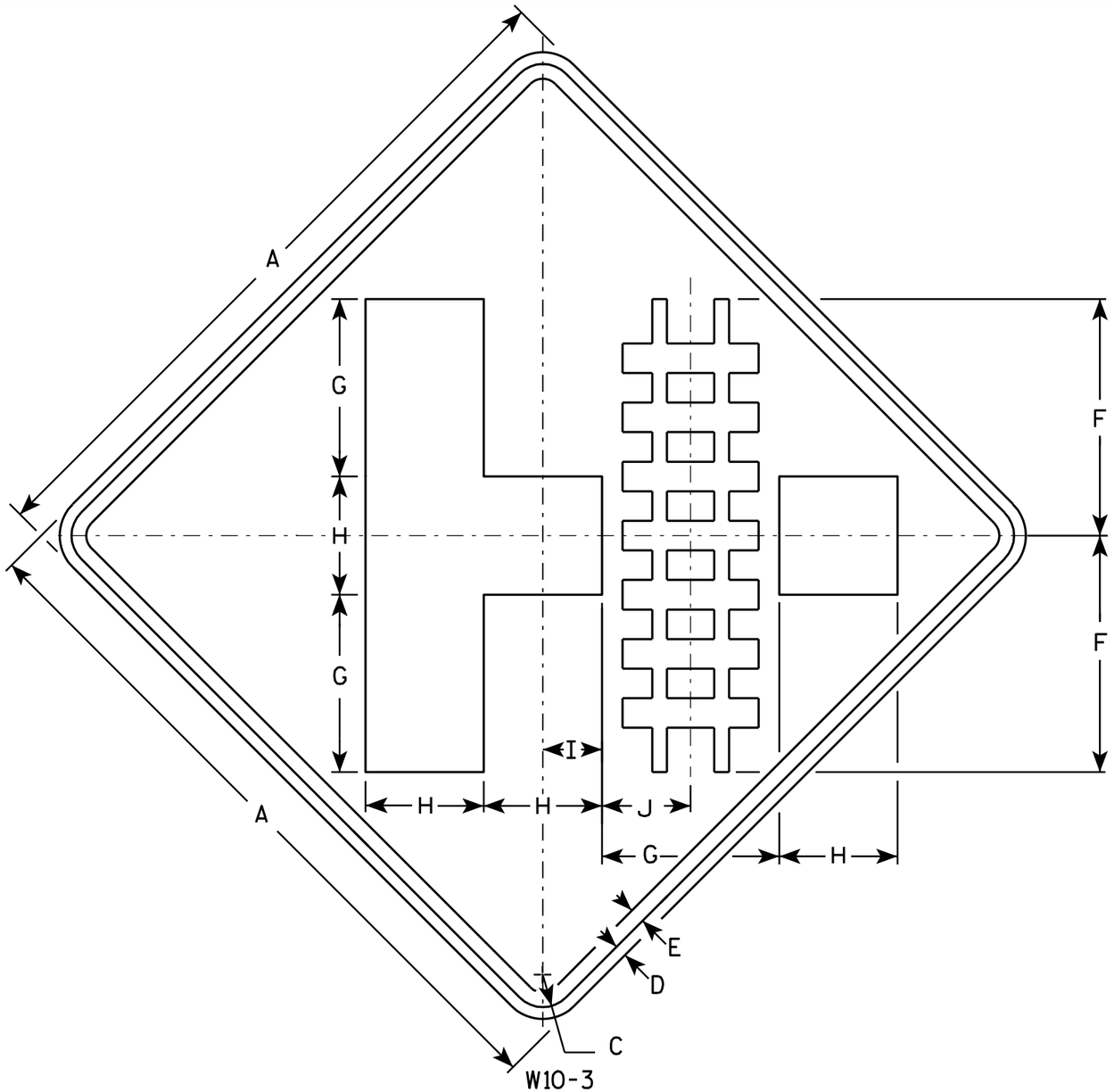
STANDARD SIGN
W10-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

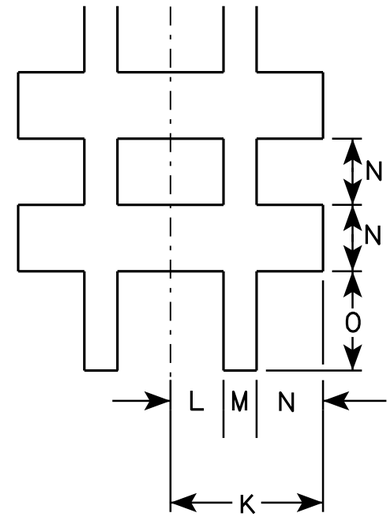
DATE 3/13/13 PLATE NO. W10-2.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 186 | 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.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	7 1/2	5	2 1/2	3 3/4	2 7/8	1	5/8	1 1/4	1 7/8												6.25
2S	36		1 5/8	5/8	3/4	12	9	6	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
2M	36		1 5/8	5/8	3/4	12	9	6	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
3	36		1 5/8	5/8	3/4	12	9	6	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
4	48		2 1/4	3/4	1	16	12	8	4	6	4 1/2	1 1/2	1	2	3												16.0
5																											

STANDARD SIGN
W10-3

WISCONSIN DEPT OF TRANSPORTATION

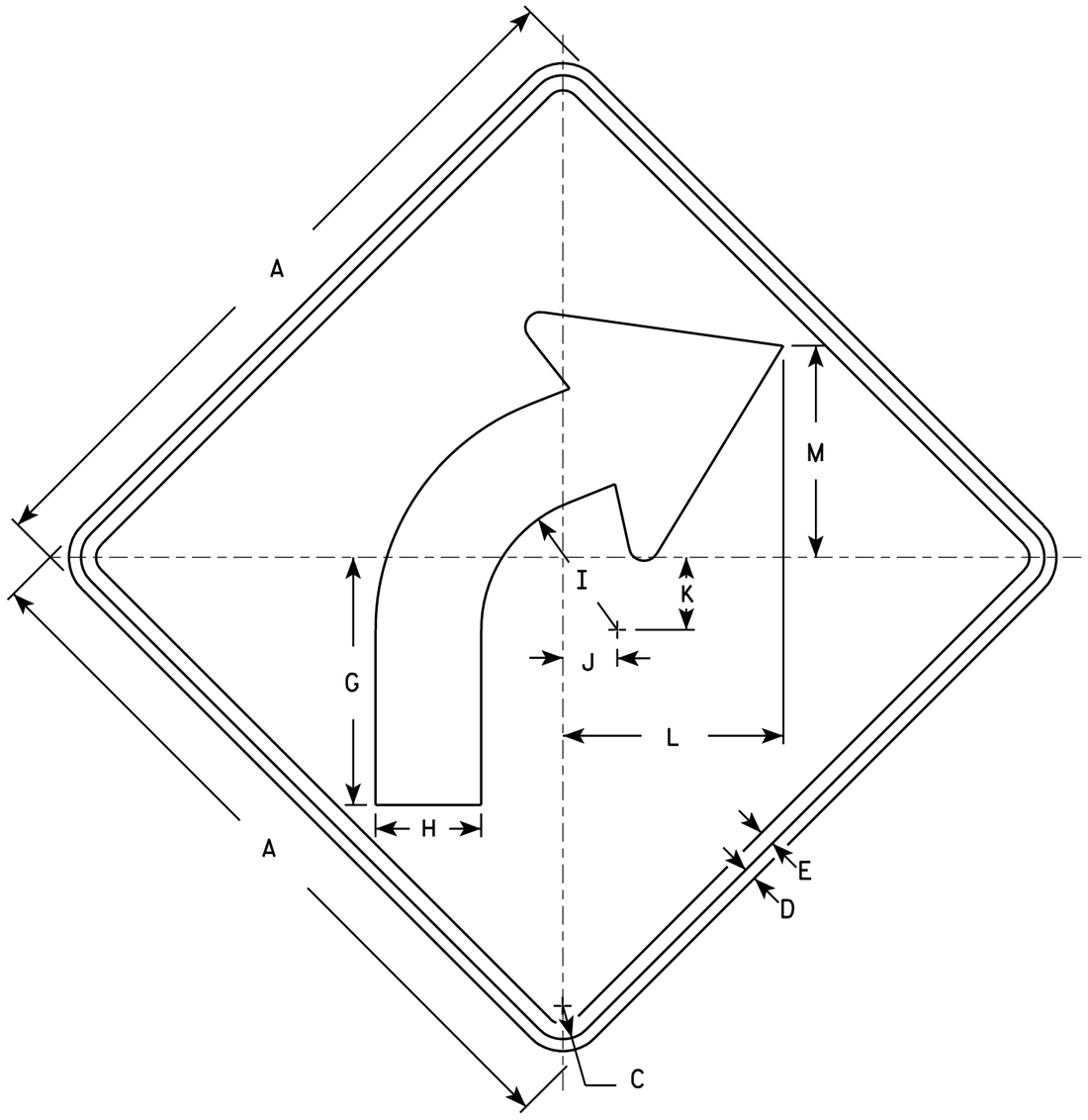
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W10-3.8

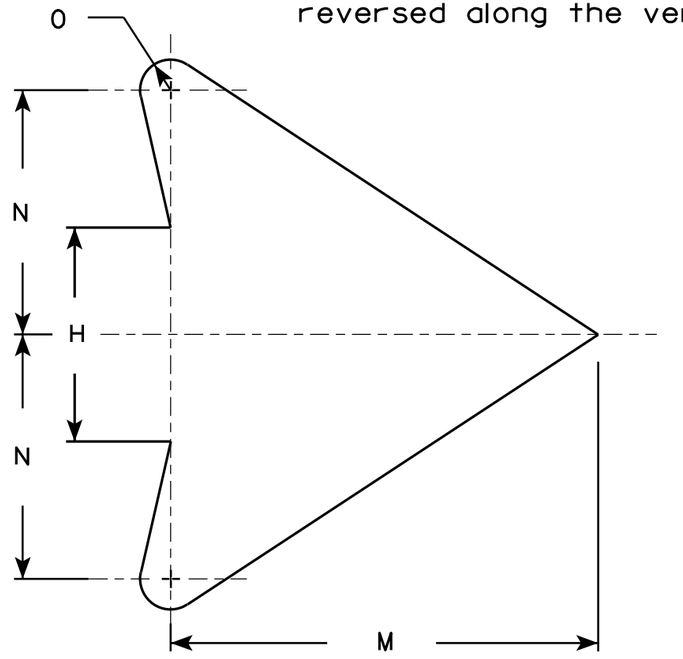
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 187 | E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

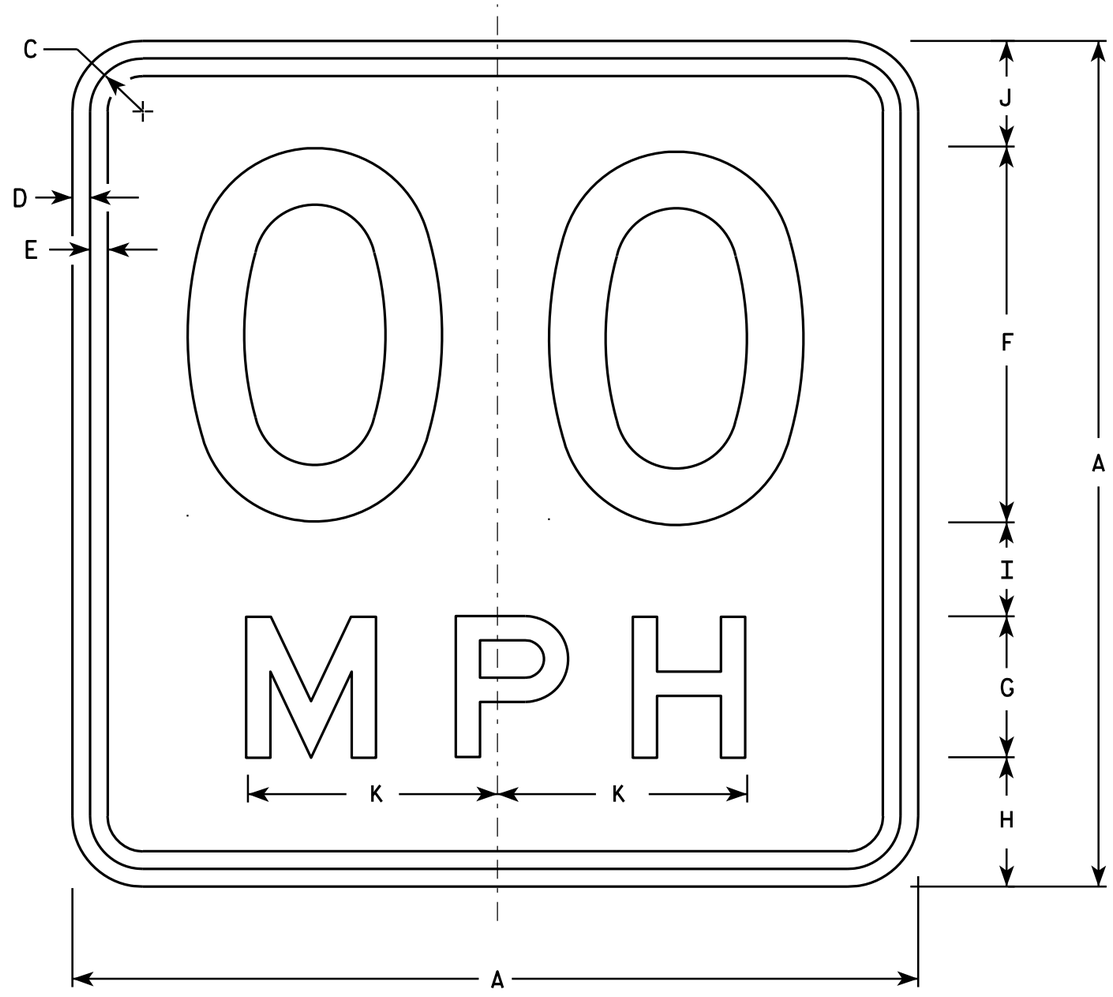
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 188	E



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

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 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

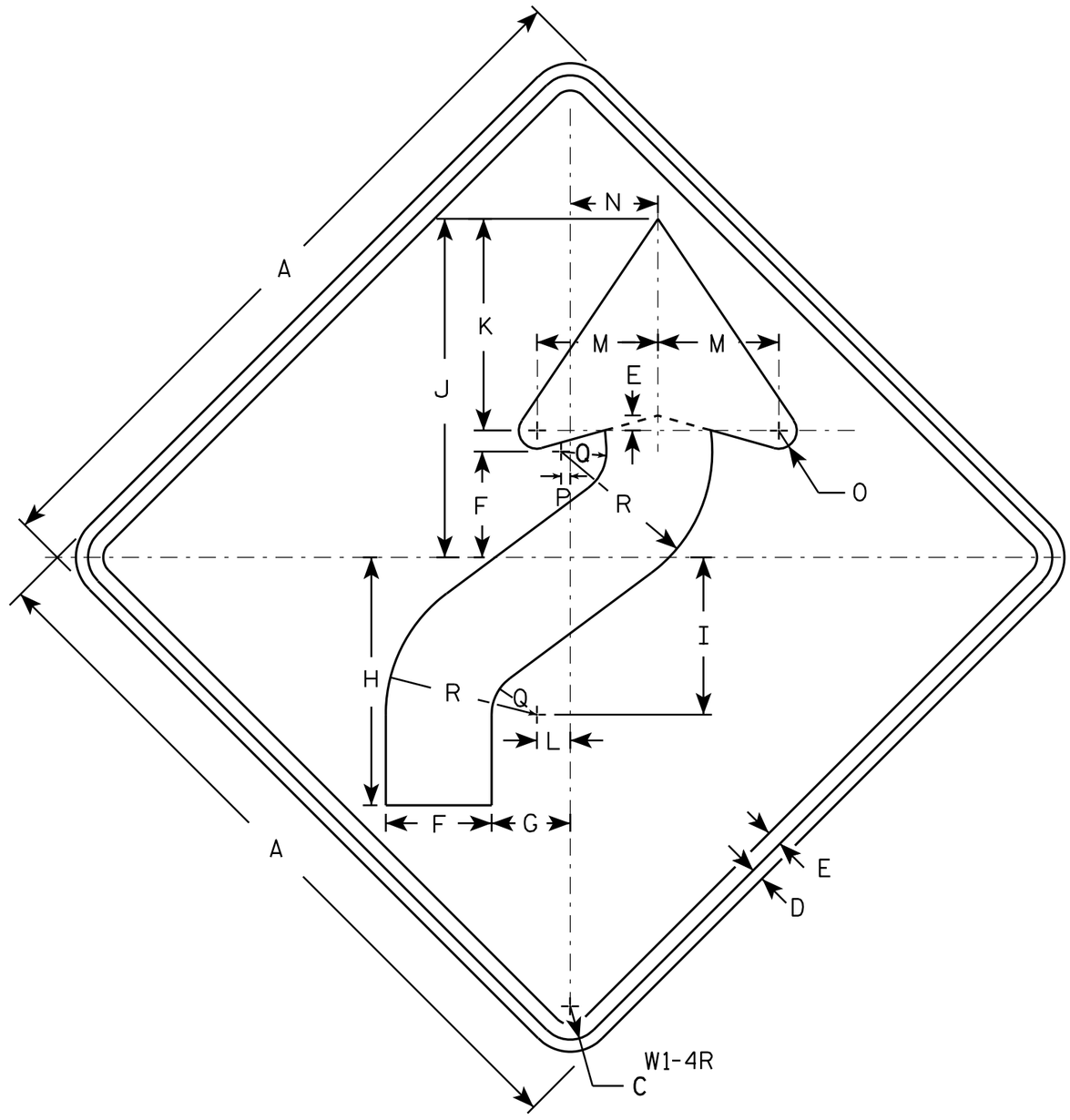
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 189 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN

W1-4

WISCONSIN DEPT OF TRANSPORTATION

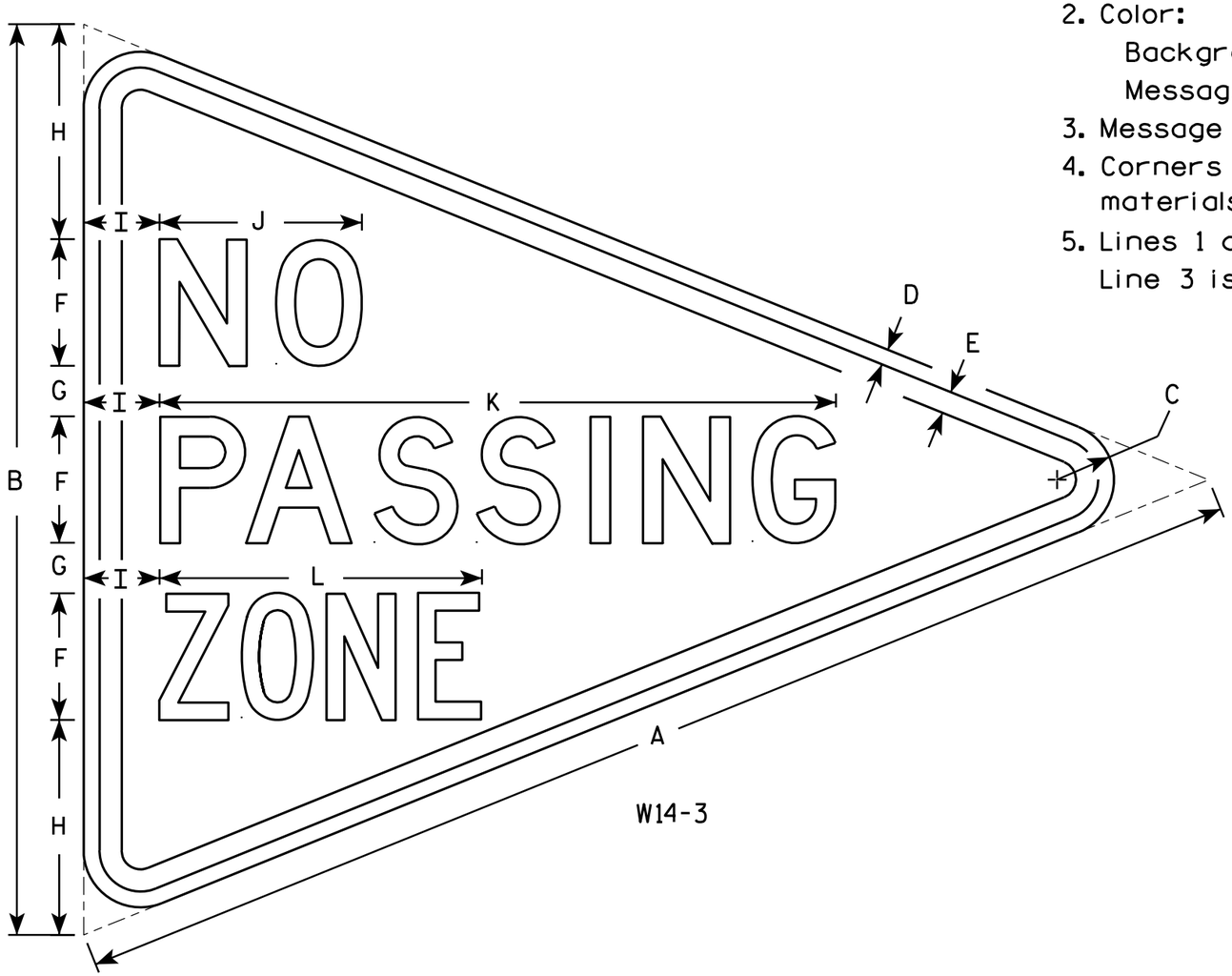
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 190 | 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. 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																											

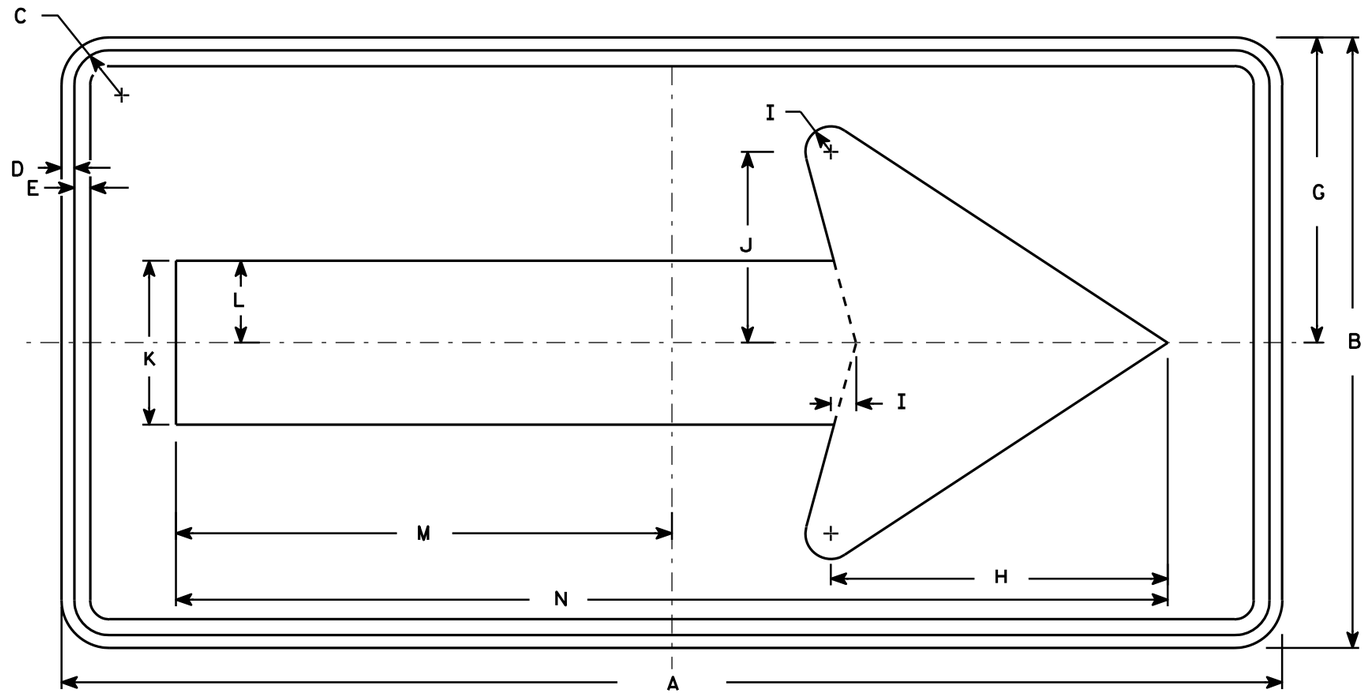
STANDARD SIGN
W14-3

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: 191	E



W1-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
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	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

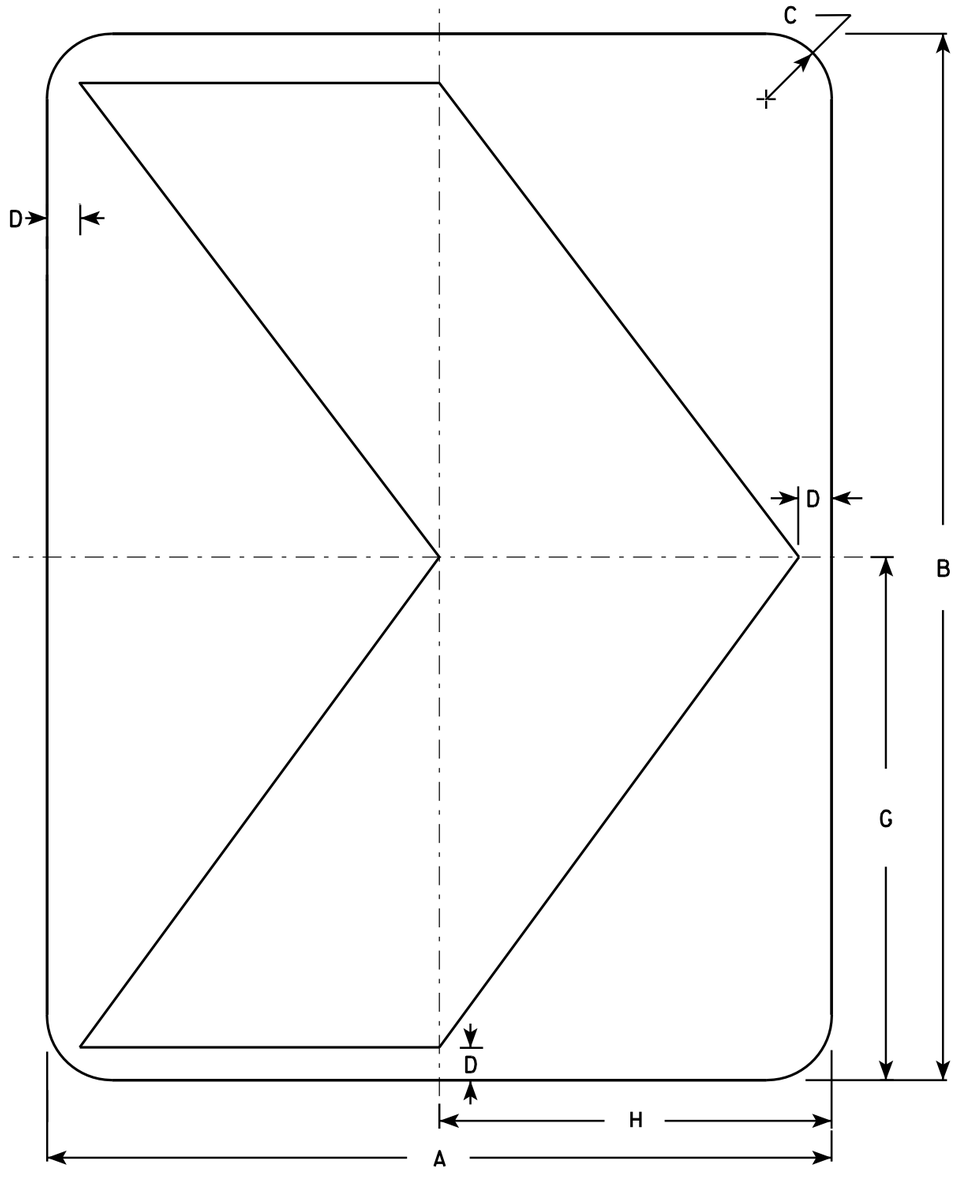
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 192



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.

W1-8

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 ½	½			9	6																			1.5
2S	18	24	1 ½	¾			12	9																			3.0
2M	18	24	1 ½	¾			12	9																			3.0
3	24	30	1 ½	1			15	12																			5.0
4	30	36	1 ⅞	1 ¼			18	15																			7.5
5	36	48	2 ¼	1 ½			24	18																			12.0

STANDARD SIGN
W1-8

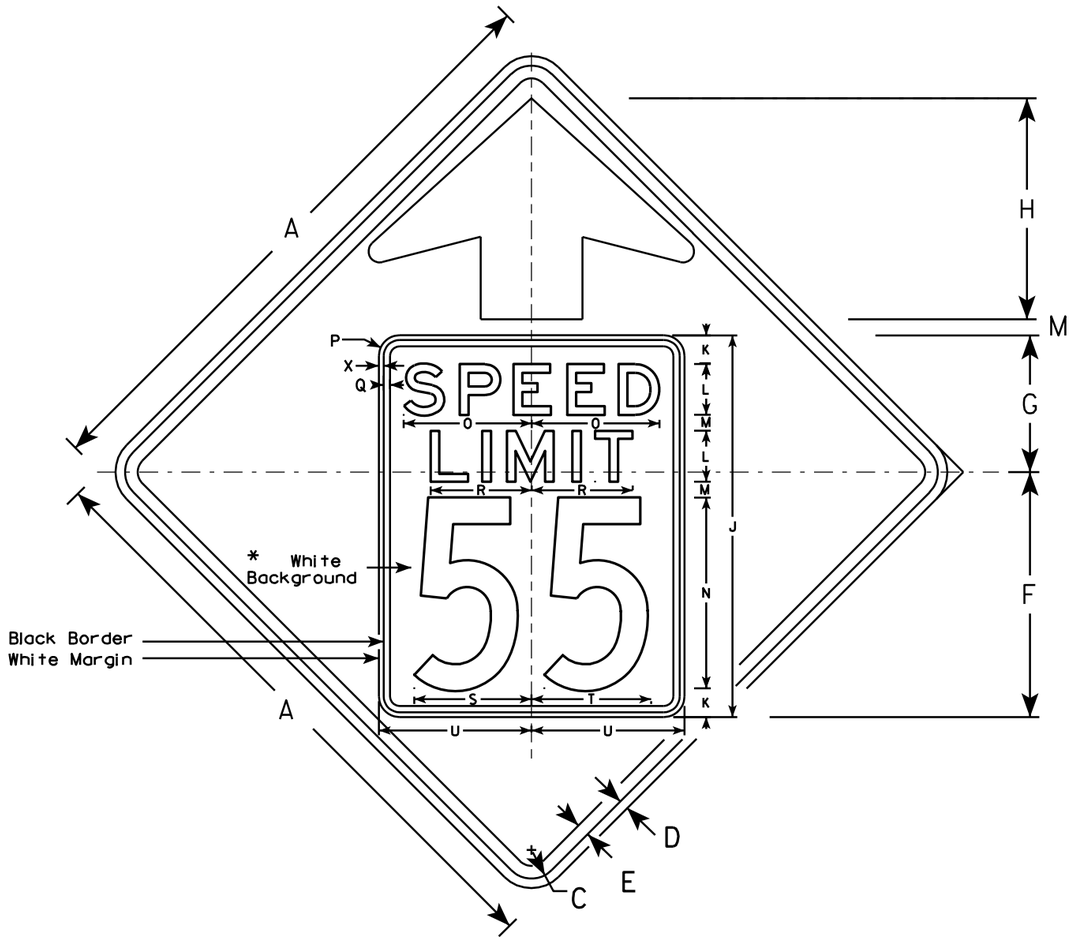
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-8.6

PROJECT NO:

SHEET NO: 193 E

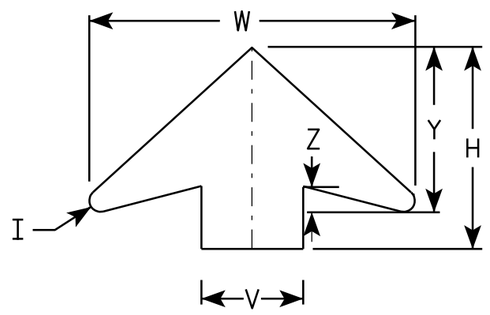


W3-5

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

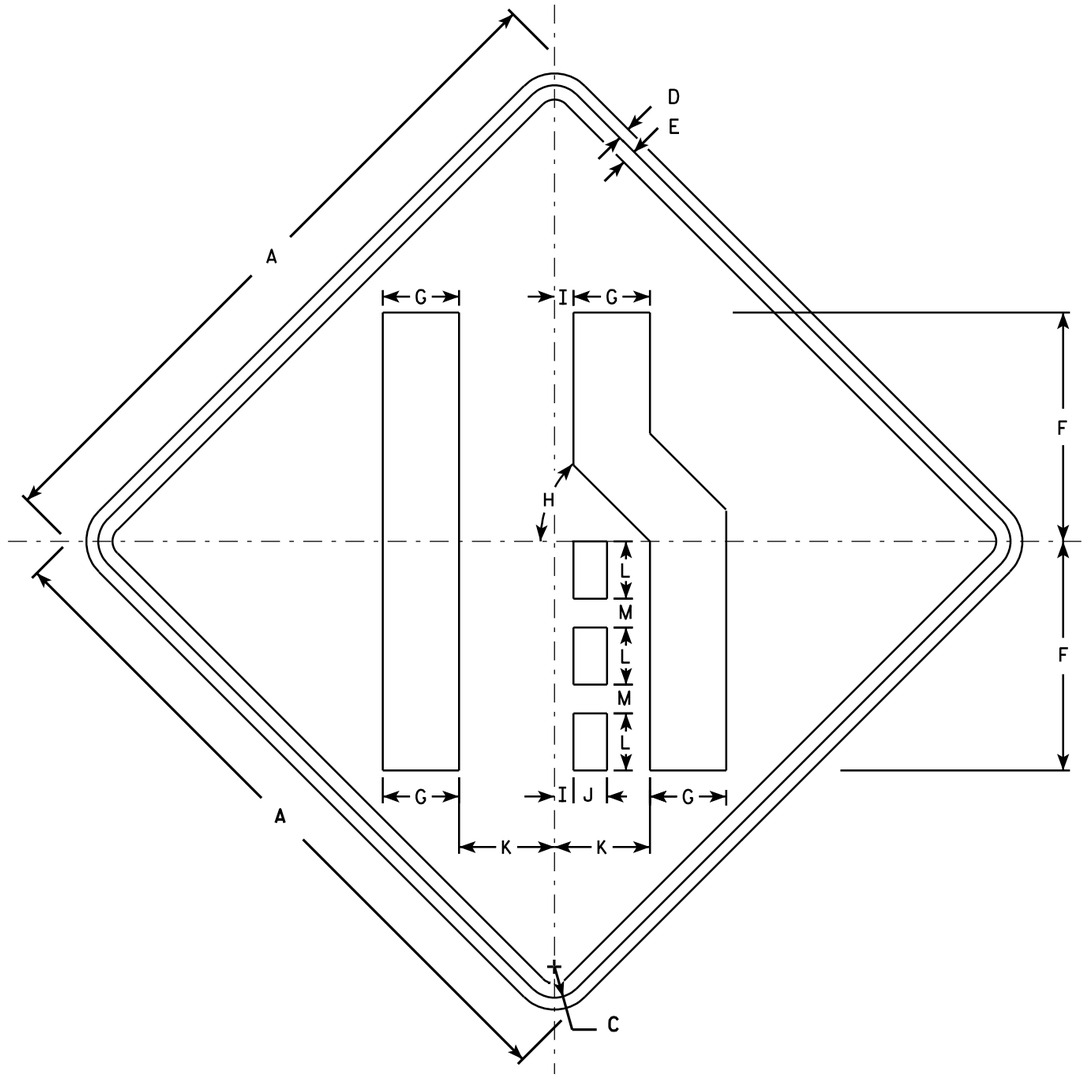
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 194 E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

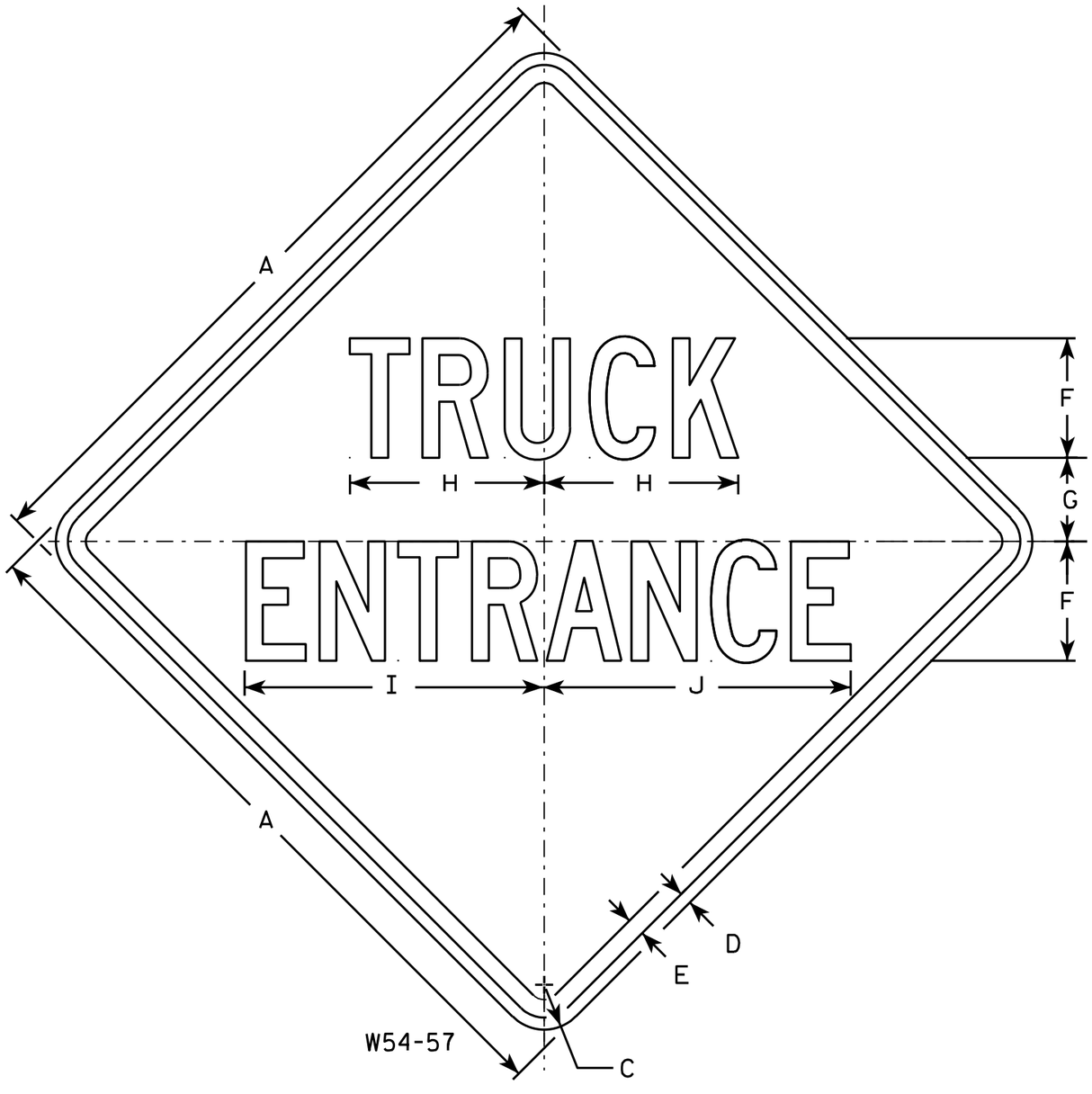
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 195 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. 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	30		1 3/8	1/2	5/8	5	3 1/2	8 1/8	12 1/2	12 7/8																	6.25
2M	36		1 5/8	5/8	3/4	6	4 1/4	9 5/8	15	15 3/8																	9.00
3	36		1 5/8	5/8	3/4	6	4 1/4	9 5/8	15	15 3/8																	9.00
4																											
5																											

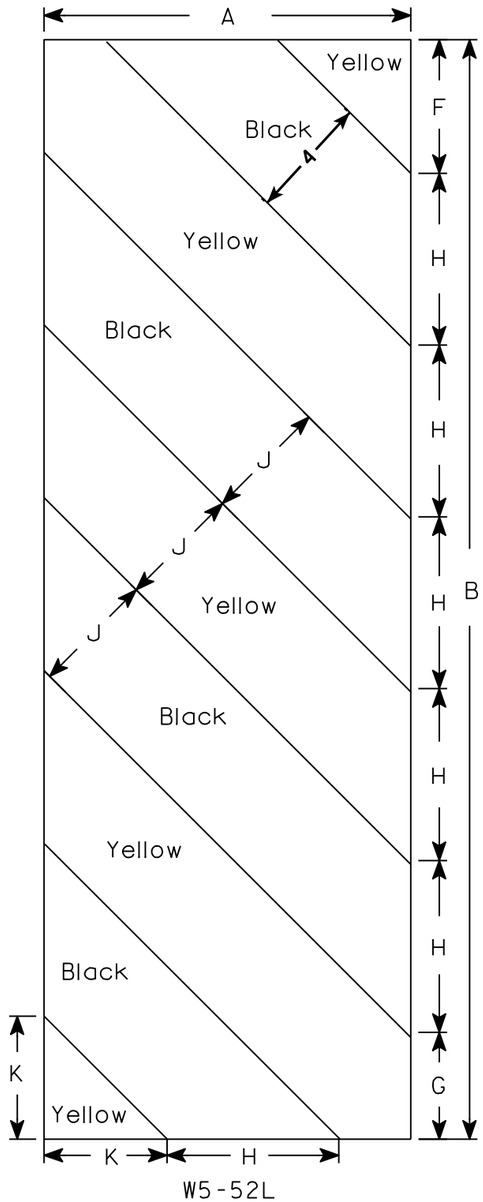
STANDARD SIGN
W54-57

WISCONSIN DEPT OF TRANSPORTATION

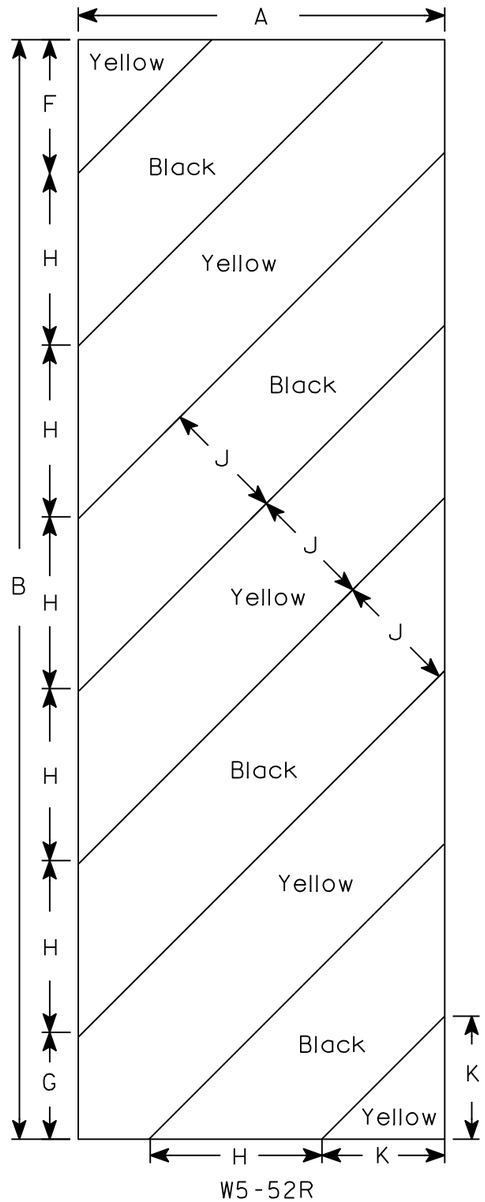
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W54-57.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 196	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

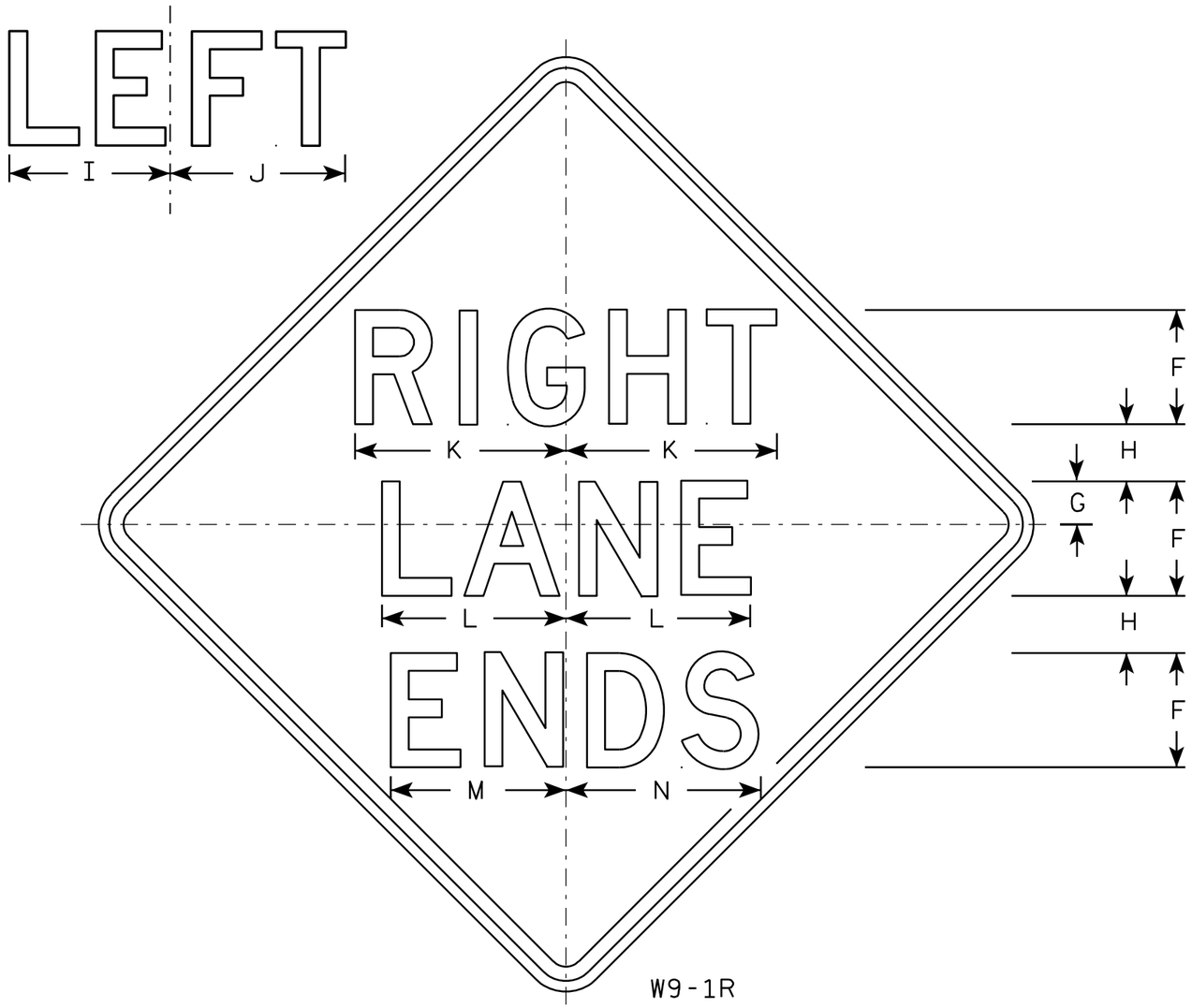
W5-52L & W5-52R

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: 197 | E



W9-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. W9-1L same as W9-1R except the word Left replaces Right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

STANDARD SIGN
W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 03/18/13 PLATE NO. W9-1.8

PROJECT NO:

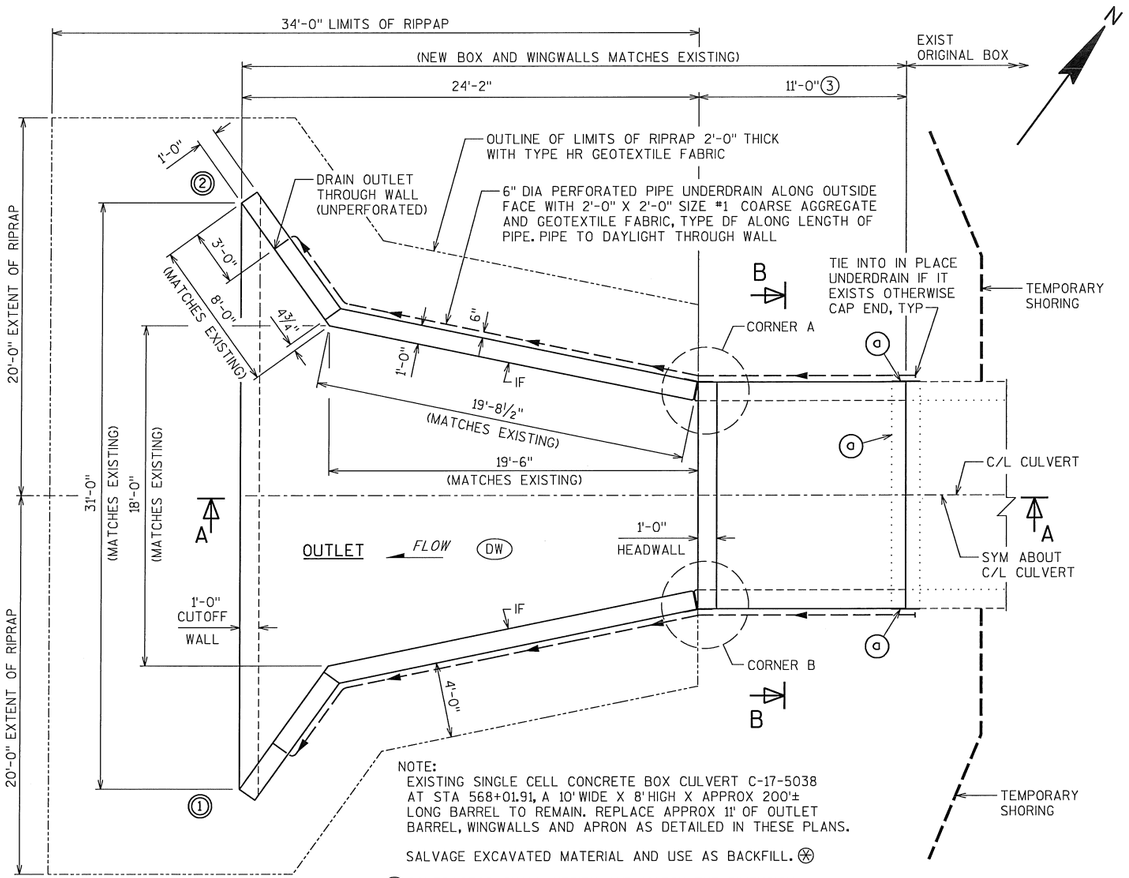
SHEET NO: 198 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W91.DGN PLOT DATE : 18-MAR-2013 11:42 PLOT BY : mscsja

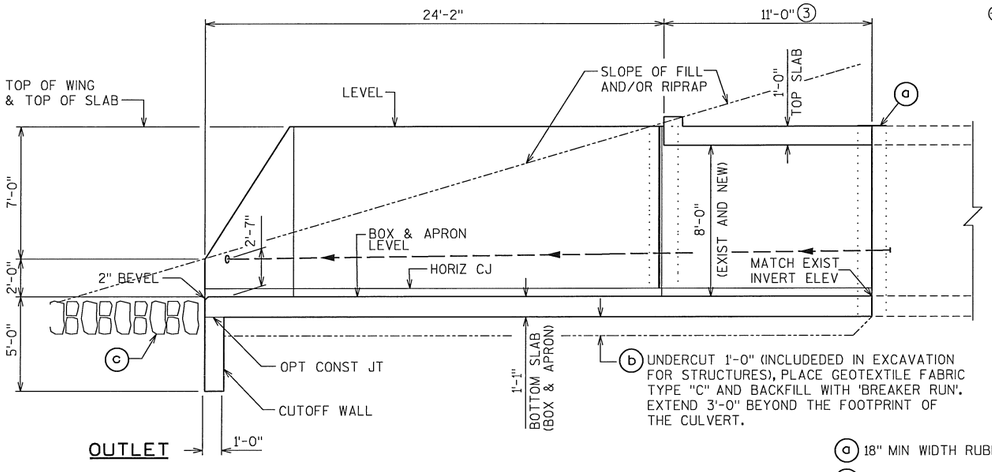
WISDOT/CADDS SHEET 42

7

7

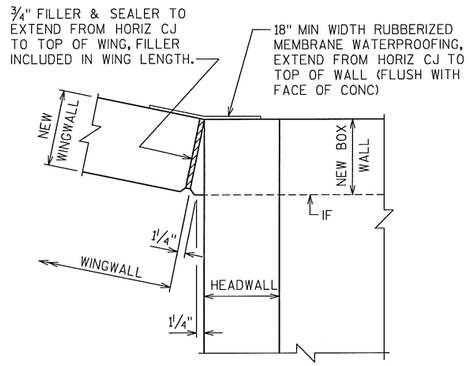


PLAN
OUTLET END
(EXIST SINGLE CELL CONCRETE BOX CULVERT)

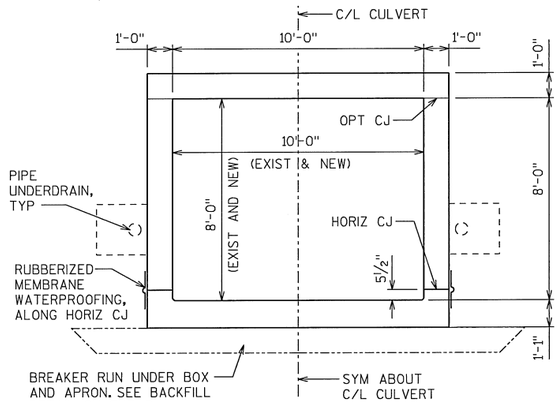


SECTION A-A

ⓑ UNDERCUT 1'-0" (INCLUDEDED IN EXCAVATION FOR STRUCTURES), PLACE GEOTEXTILE FABRIC TYPE "C" AND BACKFILL WITH 'BREAKER RUN'. EXTEND 3'-0" BEYOND THE FOOTPRINT OF THE CULVERT.



CORNER A & B
CORNER "A" SHOWN, CORNER "B" SIMILAR



SECTION B-B
CROSS SECTION THRU NEW BOX

TOTAL ESTIMATED QUANTITIES - C-17-5038

	BID ITEM NUMBERS	BID ITEMS	UNIT	TOTALS
	203.0200	REMOVING OLD STRUCTURE (STATION) 568+01.91	LS	1
	206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-17-5038	LS	1
⊛①	210.0100	BACKFILL STRUCTURE	CY	93
	311.0115	BREAKER RUN	CY	27
	502.5005	MASONRY ANCHORS TYPE L NO. 5 BARS	EA	26
	504.0100	CONCRETE MASONRY CULVERTS	CY	56
	505.0410	BAR STEEL REINFORCEMENT HS CULVERTS	LB	5,090
	511.1200	TEMPORARY SHORING (STRUCTURE) C-17-5038	SF	600
②	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	21
	606.0300	RIPRAP HEAVY	CY	46
	612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	3
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	71
	645.0105	GEOTEXTILE FABRIC TYPE C	SY	88
	645.0120	GEOTEXTILE FABRIC TYPE HR	SY	69
	690.0250	SAWING CONCRETE	LF	58
		NON-BID ITEMS		
		FILLER	SIZE	¾"

① ADDITIONAL BACKFILL AS NEEDED BEHIND BOX AND WINGWALLS, COORDINATE WITH ROADWAY DRAWINGS.
② DOES NOT INCLUDE RUBBERIZED MEMBRANE WATERPROOFING. REQUIRED IF OPTIONAL CONST JT IS USED.

ⓐ 18" MIN WIDTH RUBBERIZED MEMBRANE WATERPROOFING UP WALLS AND ACROSS TOP OF SLAB.
ⓑ GEOTEXTILE FABRIC TYPE C TO BE PLACED UNDER BOX AND APRON,
ⓒ 2'-0" THICK RIPRAP. GEOTEXTILE FABRIC TYPE HR TO BE PLACED UNDER RIPRAP.

DESIGN DATA

LIVE LOAD: (EXISTING)
DESIGN LOAD = UNKNOWN
EARTH LOAD = UNKNOWN

LIVE LOAD: (NEW)
DESIGN LOAD = LRFD (BOXCAR CRSI PROGRAM)
EARTH LOAD = DESIGNED FOR 6'FILL
FOR WINGWALLS:
SOIL UNIT WEIGHT = 120 pcf
K_O = 0.5

ALLOWABLE DESIGN STRESSES:
CONCRETE MASONRY - GRD A
AIR ENTRAINED f'c = 3,500 psi
HIGH STRENGTH BAR STEEL REINFORCEMENT
ASTM A615 GRADE 60 fy = 60,000 psi

GENERAL NOTES

CONCRETE AND REINFORCEMENT SHALL BE IN ACCORDANCE WITH WISDOT "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION" SECTION 501.

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS AND INSPECTION REPORTS. CONTRACTOR TO VERIFY BEFORE ACCEPTANCE. EXIST CULVERT PLANS AVAILABLE AT WISDOT.

MATCH EXIST DIMENSIONS AND ELEVATIONS EXCEPT AS OTHERWISE SHOWN OR NOTED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

¾" CHAMFER ON ALL EXPOSED CONCRETE EDGES.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ¾" FILLER WITH NON-STAINING GRAY NON-ASPHALTIC JOINT SEALER (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE.

FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION :M153 TYPE 1, 2, OR 3 OR AASHTO DESIGNATION : M213.

THE EXIST GROUND LINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES. ALL UTILITIES TO REMAIN IN SERVICE. COORDINATE WITH UTILITY COMPANIES.

SALVAGE AND REINSTALL NAMEPLATE IF PRESENT ON WINGWALL TO BE REPAIRED. IF NEW NAMEPLATE IS REQUIRED, ORIGINAL CONSTRUCTION YEAR SHALL BE USED, SEE EXIST NAMEPLATE FOR DATE.

⊛ ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH THE EXCAVATED MATERIAL UNLESS OTHERWISE NOTED. SALVAGE AND REINSTALL AT WINGWALLS & BOX. FOR ADDITIONAL SLOPE PROTECTION ITEMS AND QUANTITIES SEE THESE PLANS AND THE ROADWAY DRAWINGS.

(DW) IF NECESSARY, THE CONTRACTOR SHALL PLACE SAND BAGS OR USE OTHER MEANS TO DEWATER THE CONSTRUCTION AREAS. THIS COST SHALL BE INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY CULVERTS"

◎ INDICATES WING TO REPAIR, WINGWALLS ARE IDENTICAL

EXIST = EXISTING
IF = INSIDE FACE
OF = OUTSIDE FACE

LIST OF DRAWINGS

1 GENERAL PLAN, SECTIONS, NOTES AND QUANTITIES
2 REMOVAL & BACKFILL DETAILS
3 DETAILS
4 DETAILS
5 BILL OF BARS

WISCONSIN ★ NATHAN C. KLOPP E-39850 ST. PAUL MN ★ PROFESSIONAL ENGINEER
05/12/2014

SEH CONTACT: GREG WEYANDT, PE, 715.720.6266
WISDOT BRIDGE OFFICE CONTACT: BILL DREHER, PE, 608.266.8489

STATE PROJECT NUMBER
7090-05-65

NO.	DATE	REVISION	BY

SHORT ELLIOTT HENDRICKSON INC.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED William C. Dreher (DVE) 1/6/15
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-17-5038

USH 12 OVER CIP BOX CULVERT
AT UNKNOWN CREEK (WINGWALL & BOX REPAIRS)

COUNTY	TOWN/~~CITY/VILLAGE~~
DUNN	MENOMONIE
DESIGN SPEC.	REHABILITATION N/A

DESIGNED BY	NCK	DESIGN CK'D.	JAJ	DRAWN BY	DLF	PLANS CK'D.	NCK

GENERAL PLAN, SECTIONS, NOTES AND QUANTITIES

SHEET 1 OF 5
199

PLOT DATE: 12/4/2014 PLOT TIME: 1:57:25 PM
FILE NAME : S:\UZ\W\Wit\nw\188721\5-final-dsgn\5l-drawings\20-Struct\c-17-xxx\culvert\c17xxxgl.dgn

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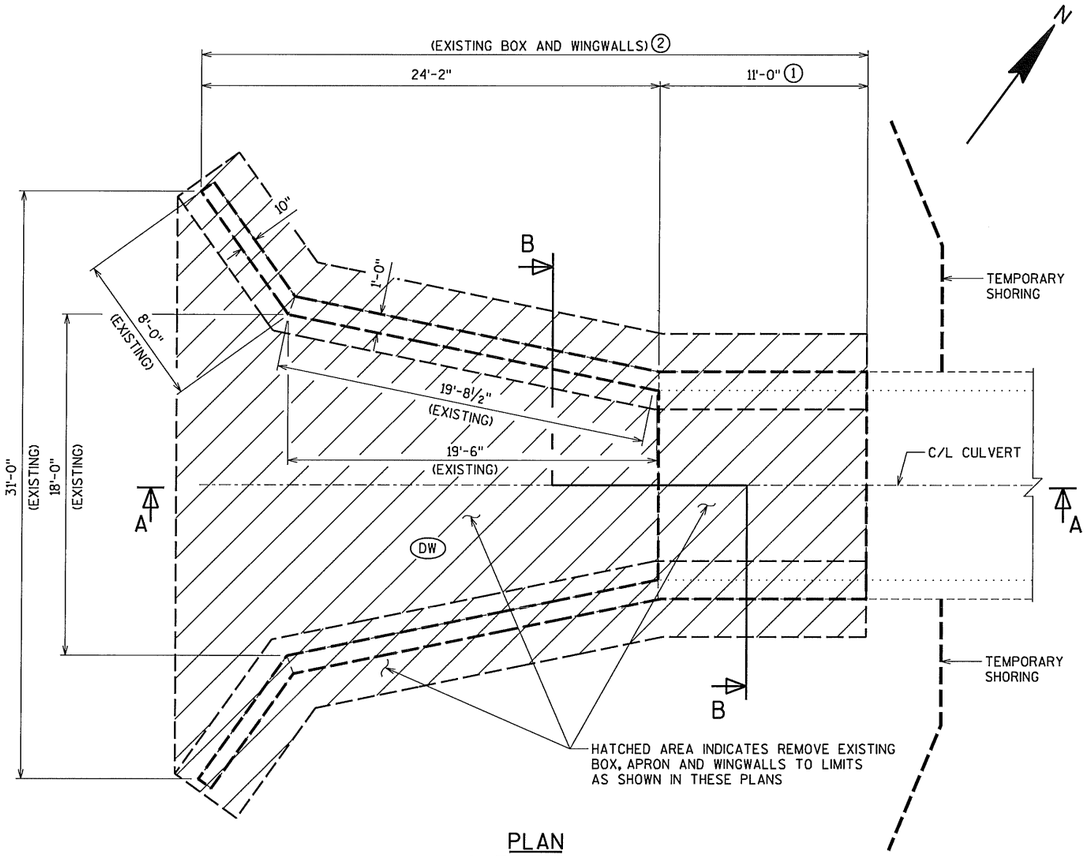
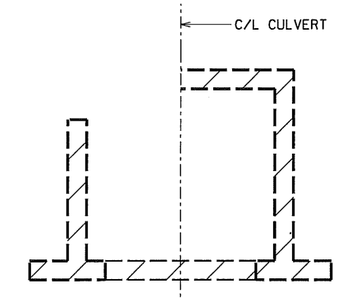
STATE PROJECT NUMBER

7090-05-65



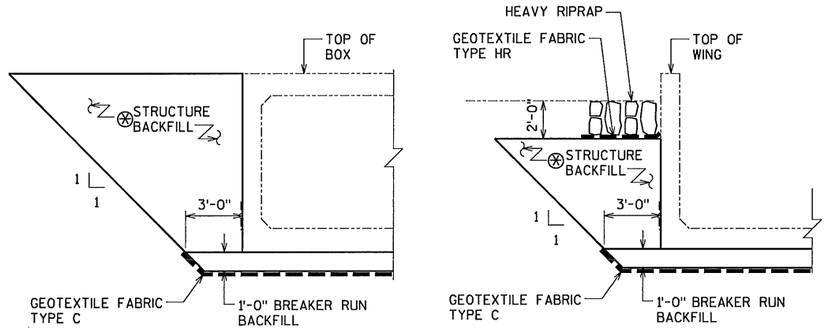
PLAN
OUTLET END



SECTION B-B

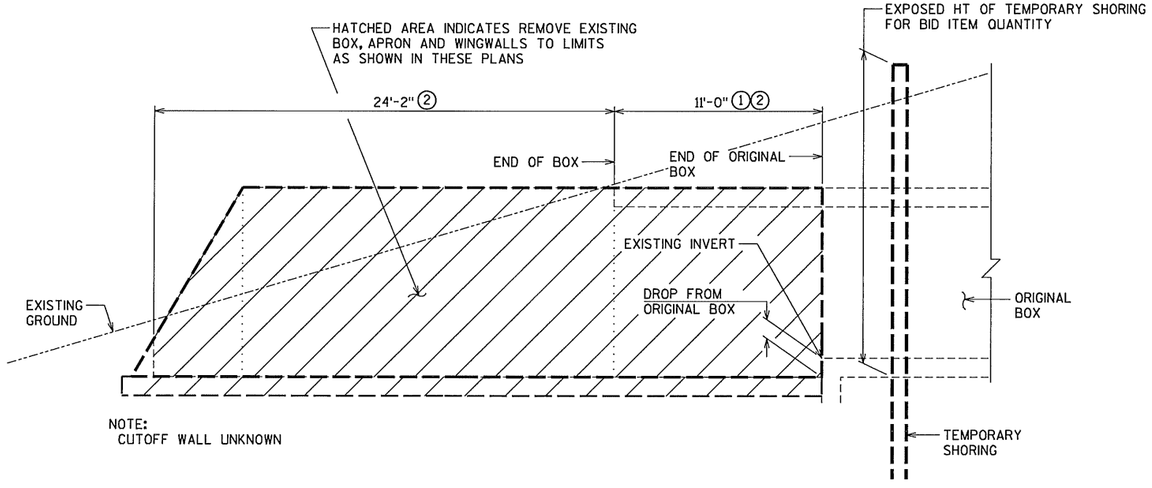
① CONTRACTOR SHALL VERIFY AND MATCH THE DIMENSION FROM THE EXISTING APRON TO THE INVERT.

② BID ITEM "REMOVE OLD STRUCTURE" INCLUDES BARREL SECTION, APRON WINGWALLS AND BASE SLAB.



AT BOX AT WINGWALLS

BACKFILL DETAIL



SECTION A-A

(DW) IF NECESSARY, THE CONTRACTOR SHALL PLACE SAND BAGS OR USE OTHER MEANS TO DEWATER THE CONSTRUCTION AREAS. THIS COST SHALL BE INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY CULVERTS"

⊛ ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH THE EXCAVATED MATERIAL UNLESS OTHERWISE NOTED. SALVAGE AND REINSTALL AT WINGWALLS & BOX. FOR ADDITIONAL SLOPE PROTECTION ITEMS AND QUANTITIES SEE THESE PLANS AND THE ROADWAY DRAWINGS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-17-5038

DRAWN BY DLF | PLANS CK'D. NCK

REMOVALS AND BACKFILL DETAILS

SHEET 2 OF 5
200

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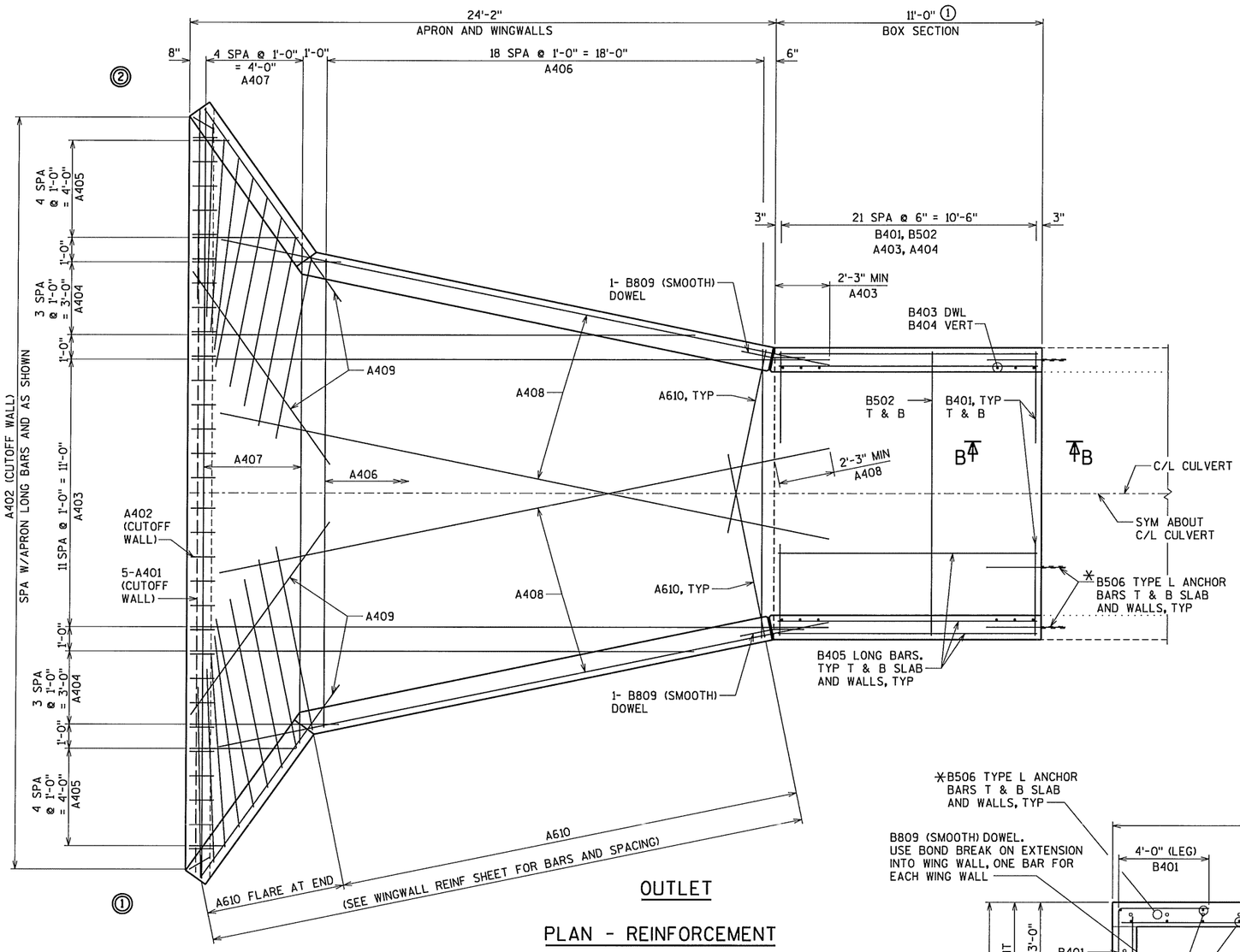
PLOT DATE: 5/12/2014 PLOT TIME: 7:46:01 AM

FILE NAME : S:\DZ\WI\ttnw\WBB72\5-final-dsgn\5i-drawings\20-Struct\c-17-xxx\culvert\c17xxxg2.dgn

STATE PROJECT NUMBER

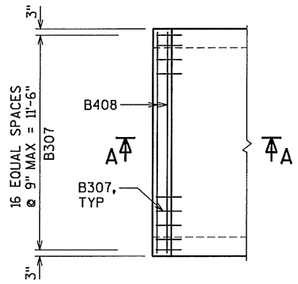
7090-05-65



OUTLET

PLAN - REINFORCEMENT

(TOP AND BOTTOM SLAB, WALLS, APRON AND WINGS)



OUTLET

PLAN - REINFORCEMENT

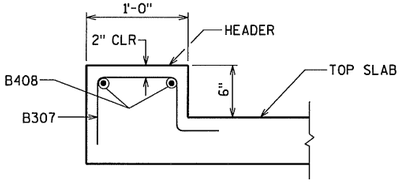
HEADWALL

IF = INSIDE FACE
OF = OUTSIDE FACE

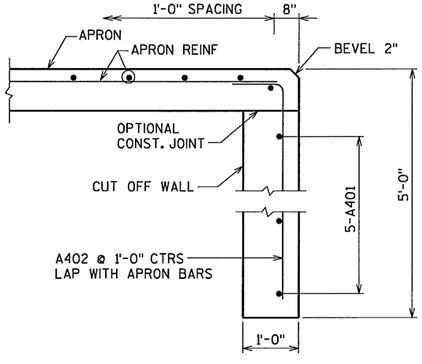
T = TOP
B = BOTTOM

EF = EACH FACE
FF = FRONT FACE
BF = BACK FACE

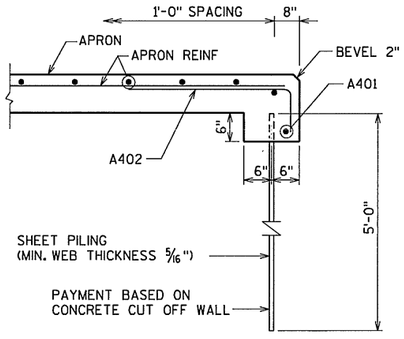
(1) CONTRACTOR SHALL VERIFY AND MATCH THE DIMENSION FROM THE EXISTING APRON TO THE INVERT.



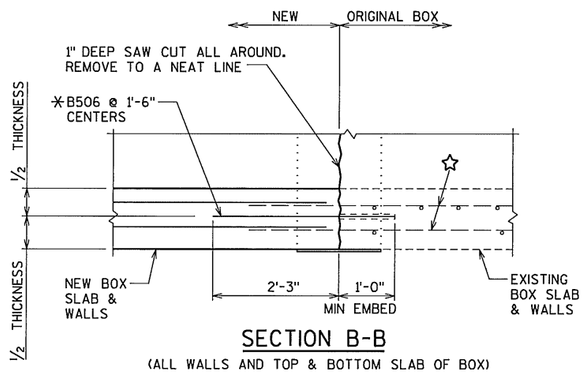
SECTION A-A



CUTOFF WALL

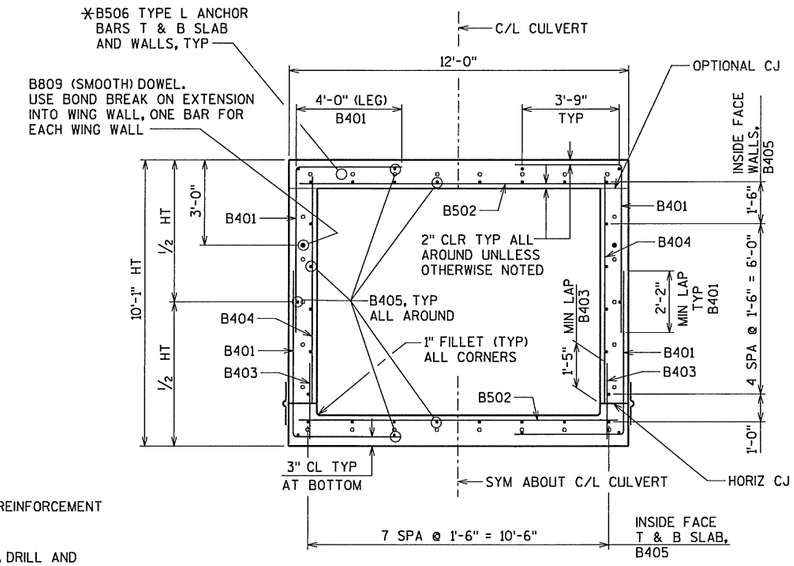


ALTERNATE CUTOFF WALL



SECTION B-B

(ALL WALLS AND TOP & BOTTOM SLAB OF BOX)



CROSS SECTION THRU BOX - REINFORCEMENT

NOTES:

☆ PRESERVE AND UTILIZE EXISTING REINFORCEMENT AND INCORPORATE INTO NEW BOX.

✳ CONC MASONRY ANCHORS TYPE L, DRILL AND EPOXY GROUT. MIN EMBED 1'-0", SPACED AT 1'-6" MAX AND CENTERED IN EXISTING SLABS & WALLS. BAR STEEL WEIGHT IS INCLUDED IN "BAR STEEL REINFORCEMENT HS CULVERTS" ITEM.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-17-5038

DRAWN BY DLF | PLANS CK'D. NCK

DETAILS

SHEET 3 OF 5
201

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8

PLOT DATE: 5/12/2014 PLOT TIME: 7:46:51 AM

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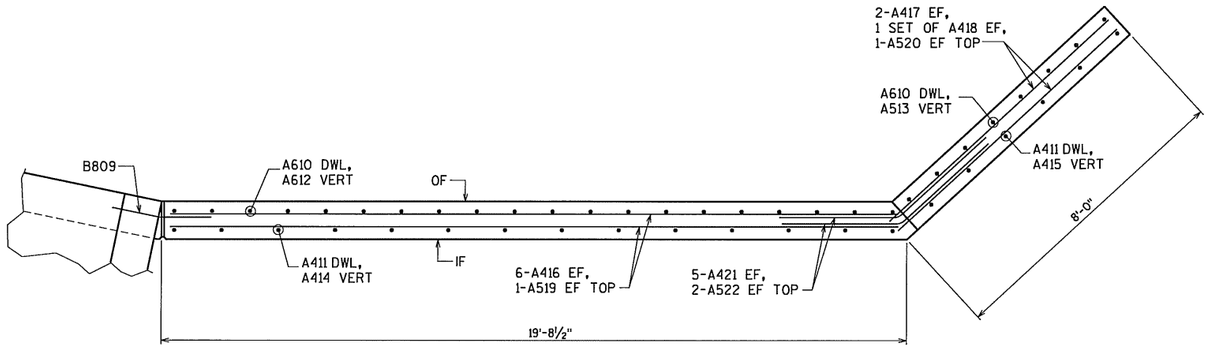
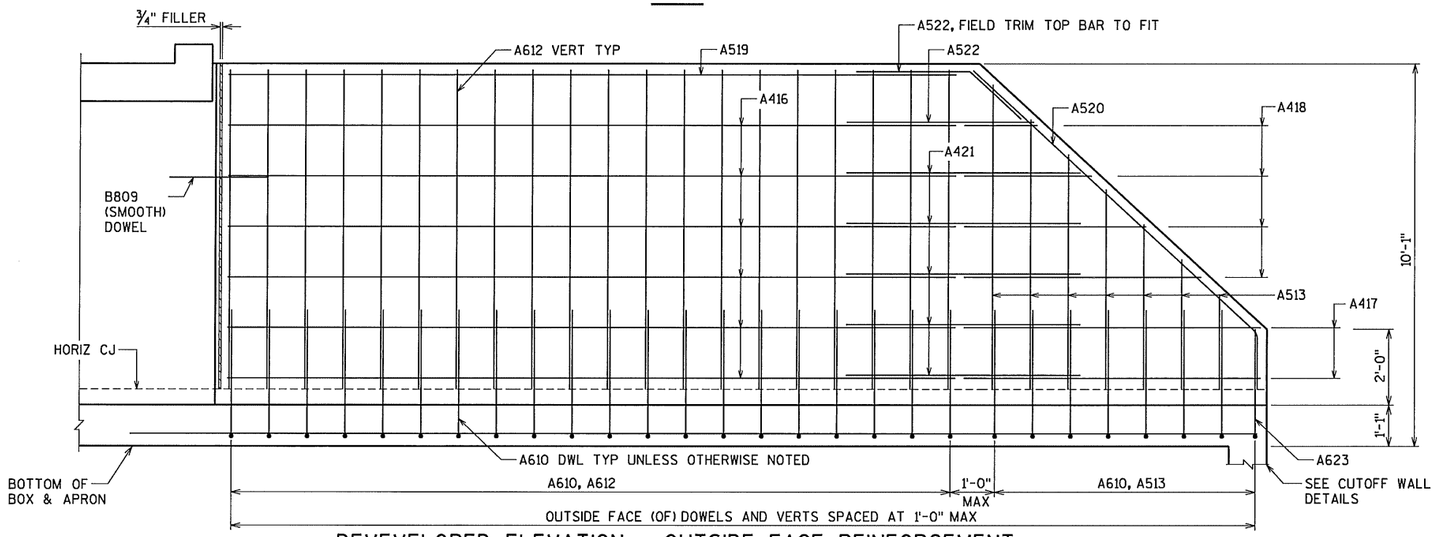
STATE PROJECT NUMBER

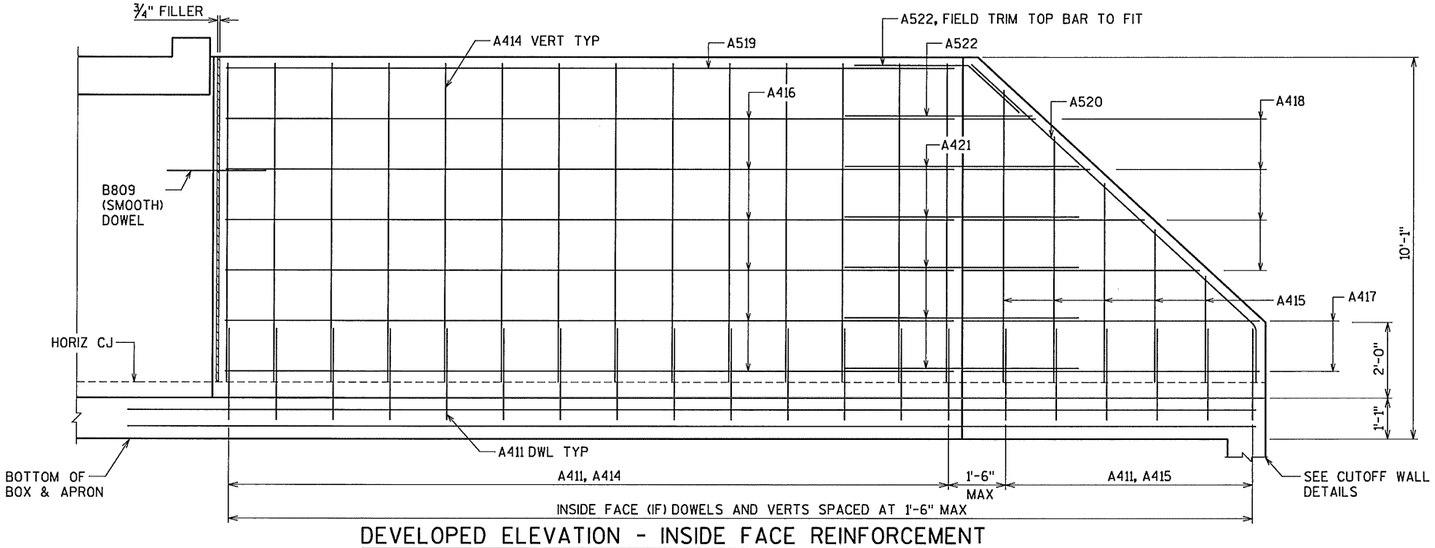
7090-05-65



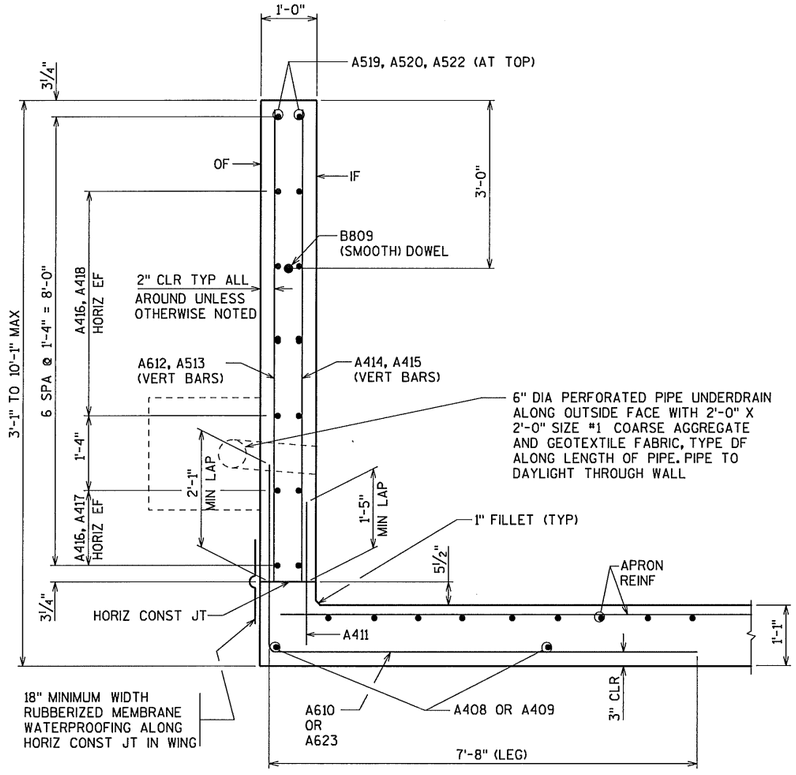
PLAN



DEVEVELOPED ELEVATION - OUTSIDE FACE REINFORCEMENT



DEVELOPED ELEVATION - INSIDE FACE REINFORCEMENT



TYPICAL WINGWALL SECTION

IF = INSIDE FACE
OF = OUTSIDE FACE

T = TOP
B = BOTTOM

EF = EACH FACE
FF = FRONT FACE
BF = BACK FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-17-5038

DRAWN BY DLF | PLANS CK'D. NCK

DETAILS

SHEET 4 OF 5
202

8

8

PLOT DATE: 5/12/2014 PLOT TIME: 7:46:33 AM

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STATE PROJECT NUMBER
7090-05-65

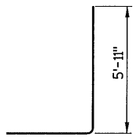
NOTE: THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE ENGLISH BAR DIAMETER SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT.

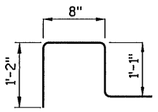
LENGTH SHOWN FOR BAR SERIES BARS IS AN AVERAGE LENGTH AND ARE USED FOR BAR WEIGHT CALCULATIONS ONLY. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

⚹ CONCRETE MASONRY ANCHOR TYPE L.

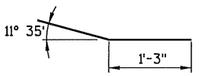
① SMOOTH ROUND DOWEL BAR WITH BOND BREAK. SEE SPECIFICATIONS.



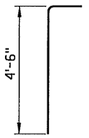
B401



B307



①B809



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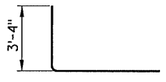

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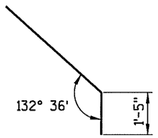

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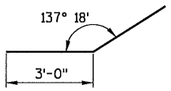

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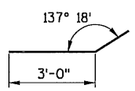

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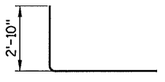

A623

BILL OF BARS						CULVERT
BAR MARK	COAT	NO. REQ'D.	LENGTH (FT-IN)	BAR SERIES	BENT	LOCATION
			BOX			
B401		88	9 - 10		X	CORNERS T & B OF
B502		44	11 - 0			TRANS T & B SLAB IF
B403		44	2 - 9			WALL DOWELS IF
B404		44	8 - 1			WALL VERTS IF
B405		36	10 - 8			LONGITUDINAL
⚹ B506		26	3 - 3			DOWELS
B307		17	3 - 2		X	HEADER TIE
B408		2	11 - 8			HEADER LONG
① B809		2	2 - 6		X	DOWEL TO WING
			APRONS & WINGS			
A401		5	31 - 0			APRON CUTOFF LONG
A402		32	5 - 5		X	APRON CUTOFF VERT
A403		12	26 - 6			APRON LONG
A404		8	13 - 5	X		APRON LONG
A405		10	2 - 11	X		APRON LONG
A406		19	15 - 6	X		APRON TRANS
A407		5	26 - 0	X		APRON TRANS
A408		4	26 - 6			APRON
A409		4	9 - 6			APRON
A610		54	10 - 10		X	WING DWL COR OF
A411		40	2 - 9			WING DWL IF
A612		40	8 - 4			WING VERT OF
A513		14	5 - 3	X		WING VERT OF
A414		28	8 - 4			WING VERT IF
A415		10	5 - 2	X		WING VERT IF
A416		24	19 - 3			WING HORIZ
A417		8	7 - 10			WING HORIZ
A418		16	4 - 1	X		WING MID HORIZ
A519		4	19 - 3			WING TOP HORIZ
A520		4	11 - 6		X	WING TOP HORIZ
A421		20	6 - 0		X	WING COR TIE
A522		8	4 - 10		X	WING COR TIE
A623		2	10 - 5		X	END WING DWL COR OF

BAR SERIES TABLE			CULVERT
BAR MARK	BENT	NO. REQ'D.	LENGTH
		APRON & WINGS	
A404		2 SERIES OF 4	6'-2" TO 20'-8"
A405		2 SERIES OF 5	1'-6" TO 4'-4"
A406		1 SERIES OF 19	11'-10" TO 19'-2"
A407		1 SERIES OF 5	20'-6" TO 31'-6"
A513		2 SERIES OF 7	2'-6" TO 8'-0"
A415		2 SERIES OF 5	2'-8" TO 7'-8"
A418		4 SERIES OF 4	1'-11" TO 6'-3"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-17-5038

DRAWN BY DLF | PLANS CK'D. NCK

BILL OF BARS

SHEET 5 OF 5
203

8

8

PLOT DATE: 5/12/2014 PLOT TIME: 7:46:17 AM

FILE NAME : S:\UZ\W\Witrw\118872\5-final-dsgn\5l-drawings\20-Struct\c-17-xxx\culvert\clfxxxd3.dgn

USH 12 ST. CROIX COUNTY: DRIVEWAY, TRUCK LANE & BEAM GUARD

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME *FILL (CY)	CUM VOLUME CUT (CY)	CUM VOLUME *FILL (CY)	MASS HAUL (CY)
574+50	0	0	0	0	0	0	0
575+00	13.4	0	12	0	12	0	12
575+81	13.2	0.9	40	2	53	2	51
576+04	12.5	7.7	11	5	63	7	57
576+30	11.5	17.9	11	16	75	22	53
576+55	8.8	59	9	47	84	69	15
577+00	4.6	37.4	11	105	95	173	-78
578+00	6	0	20	90	115	263	-148
579+00	13	0	35	0	150	263	-113
580+00	17.2	0.1	56	0	206	264	-58
581+00	14	0	58	0	264	264	0
582+00	4.6	6.5	34	16	298	280	19
583+00	13.5	0	34	16	332	295	37
584+00	30.7	0	82	0	414	295	118
585+00	29.9	0	112	0	526	295	231
585+10	13.9	0	8	0	534	295	239
585+34	6	0.1	9	0	543	295	248
585+58	3.8	0.5	4	0	547	296	252
585+72	5.9	4.1	3	2	550	297	253
585+87	1.6	5.2	2	3	552	300	251
586+11	1.1	18.3	1	14	553	314	239
586+35	1.8	30.6	1	29	554	343	211
587+00	3.6	54.8	6	133	561	476	85
588+00	11.8	208.8	29	635	589	1111	-521
589+00	7.5	191.5	36	964	625	2074	-1449
590+00	6.5	134.7	26	785	651	2860	-2209
591+00	3.8	159.5	19	708	670	3568	-2898
592+00	3.4	155.3	13	758	683	4326	-3642
593+00	8.2	19.5	21	421	705	4747	-4042
593+41	7.8	10.1	12	30	717	4776	-4059
593+66	16.4	0	11	6	728	4782	-4054
593+91	12.8	0.1	14	0	742	4782	-4040
594+00	8.3	0.5	3	0	745	4782	-4037
594+07	18.8	0	4	0	749	4782	-4034
594+21	21	0	10	0	759	4782	-4023
594+46	11.4	0	15	0	774	4782	-4008
594+71	8.9	20.9	9	13	784	4795	-4011
595+00	5.7	30.3	8	35	791	4830	-4039
596+00	6.3	0.2	22	73	814	4904	-4090
597+00	8.9	0	28	0	842	4904	-4063
598+00	10.5	0.1	36	0	878	4905	-4027
599+00	4.3	37.3	27	90	905	4995	-4089
600+00	11.2	19.2	29	136	934	5131	-4197
601+00	10.9	2.2	41	52	975	5182	-4207
602+00	10.8	0.1	40	6	1015	5188	-4173
603+00	9.4	14.2	37	34	1052	5222	-4170
604+00	4.2	2.3	25	40	1078	5262	-4184
604+18	5.3	14.5	3	7	1081	5269	-4189
604+44	4	11.2	4	16	1085	5285	-4200
604+70	6.7	1	5	8	1090	5293	-4202
605+27	7.4	0.2	15	2	1105	5294	-4189
606+00	7.4	9.3	20	17	1125	5311	-4186
606+50	0	0	7	11	1132	5322	-4190

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME *FILL (CY)	CUM VOLUME CUT (CY)	CUM VOLUME *FILL (CY)	MASS HAUL (CY)
608+87	0	0	0	0	0	0	0
609+31	2.2	0.2	2	0	2	0	2
609+60	1.9	47.6	2	33	4	33	-29
609+83	0.9	104.9	1	84	5	117	-112
609+85	2.5	35.4	0	7	5	124	-119
610+08	1.3	70.2	2	58	7	183	-176
610+11	2.7	33.2	0	9	7	192	-184
610+31	2	60.8	2	45	9	237	-228
612+32	6.3	6.3	31	324	40	561	-521
612+57	6.9	4.8	6	7	46	568	-522
612+82	5.8	19.5	6	15	52	582	-531
612+84	2.9	0.6	0	1	52	584	-531
613+09	5.2	0	4	0	56	584	-528
613+34	4.5	0	4	0	60	584	-524
613+66	4.2	0	5	0	65	584	-519
613+91	4.4	0	4	0	69	584	-515
613+96	4.6	0	1	0	70	584	-514
614+16	4.5	2.4	3	1	74	585	-512
614+87	1	6.9	7	16	81	601	-520
637+75	0	0	0	0	0	0	0
638+69	3.2	0.4	6	1	6	1	5
638+94	1.6	6.3	2	4	8	5	3
639+19	0.8	4	1	6	9	11	-2
639+94	0	0	1	7	10	18	-8
547+75	0	0	0	0	0	0	0
547+00	7.9	2.1	-11	-4	-11	-4	-7
547+50	7.4	0.1	14	3	3	-1	4
548+00	6.1	2.8	13	3	16	2	13
548+66	6.9	2.1	16	8	32	10	21
548+90	0	0.2	3	1	35	11	23
549+00	0	0.2	0	0	35	12	23
549+60	0	6.9	0	10	35	22	13
549+75	0	0	0	2	35	24	10
550+00	0	0	0	0	35	24	10

Notes:
1) Salvaged/Unusable Pavement Material is included in Cut.
2) Does not include Unusable Pavement Excavation volume.
3) Will be backfilled with Cut or Borrow.
4) Plus quantity indicates an excess of material. Minus indicates a shortage of material.

USH 12 DUNN COUNTY PIPES & BEAM GUARD

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME *FILL (CY)	CUM VOLUME CUT (CY)	CUM VOLUME *FILL (CY)	MASS HAUL (CY)
8+00	0	0	0	0	0	0	0
8+35	2.5	14.3	2	12	2	12	-10
8+41	2.6	7	1	3	2	15	-13
9+09	0	0	3	11	5	27	-21
9+10	0	0	0	0	5	27	-21
9+16	2.7	9.8	0	1	6	28	-22
9+35	1.4	68.9	1	36	7	64	-56
9+41	1.9	11.9	0	12	8	76	-68
9+60	2	8.5	1	9	9	85	-76
9+66	2.8	6.5	1	2	10	87	-78
10+75	0	0	0	0	0	0	0
10+91	2.3	5.6	1	2	1	2	-1
10+97	1.4	55	0	9	1	11	-10
11+16	1.6	14.2	1	31	2	43	-40
11+22	1.5	72.1	0	13	3	56	-53
11+41	1.9	17.4	1	40	4	96	-92
11+47	2.3	45.4	0	9	4	105	-101
12+16	3.2	19	7	107	11	212	-201
12+22	4.5	0	1	3	12	215	-203
73+00	0	0	0	0	0		
73+35	0.9	3.4	1	3	1	218	-217
73+93	1.6	0.3	3	5	3	223	-220
74+18	1.6	0.1	1	0	5	223	-218
74+43	1	1.2	1	1	6	224	-218
74+91	32.7	0	30	1	36	225	-189
75+12	2.1	0.9	13	0	50	226	-176
76+76	3	0	15	4	65	229	-164
76+78	2	1.3	0	0	65	229	-164
77+01	1.3	0	1	1	67	230	-163
77+03	1.7	18.2	0	1	67	231	-164
77+26	1.9	0.5	1	10	68	241	-173
77+28	1.4	0.1	0	0	68	241	-173
77+84	1.1	0.1	3	0	71	241	-170
77+88	6.7	0	1	0	72	242	-170
132+00	0	0	0	0	0	0	0
132+50	69	1.2	64	1	64	1	62
132+99	69.3	0	124	1	188	3	185
133+02	67.4	1.2	8	0	196	3	193
133+50	59.3	0	114	1	309	4	305
134+00	0	0	55	0	364	4	360
137+00	0	0	0	0	0	0	0
137+50	75.5	1.8	70	2	70	2	68
137+72	65.4	13.9	57	8	127	10	117
138+00	56.7	0	63	9	191	20	171
138+50	0	0	53	0	243	20	223
199+50	0	0	0	0	0	0	0
200+00	83.9	1.8	78	2	78	2	76
200+61	63.3	55.2	167	84	245	86	159
201+00	85.7	4.9	106	56	352	142	209
201+50	0	0	79	6	431	148	283

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME *FILL (CY)	CUM VOLUME CUT (CY)	CUM VOLUME *FILL (CY)	MASS HAUL (CY)
272+25	0	0	0	0	0	0	
272+45	2.8	18.2	1	9	1	9	-8
273+97	4.3	21.5	20	145	21	154	-133
274+22	7.2	8.3	5	18	26	171	-145
274+47	3.9	0.4	5	5	31	177	-145
274+71	3.9	44.6	3	26	35	203	-168
275+21	341.2	0	320	54	354	256	98
275+41	3.2	9.6	132	5	486	261	225
278+63	3.8	33.3	42	332	528	593	-66
278+87	4.7	30.5	4	37	532	630	-99
278+88	1.9	38.9	0	2	532	632	-100
279+12	3.1	42.3	2	47	534	679	-145
279+13	3	62.1	0	3	534	681	-147
279+37	3.6	9.3	3	41	537	723	-186
280+05	0.5	16.5	5	42	542	765	-223
280+27	3.9	0.1	2	9	544	774	-230
287+00	0	0	0	0	0	0	0
287+50	92.3	0	85	0	85	0	85
287+85	76.7	0	110	0	195	0	195
288+00	74.1	0.1	42	0	237	0	237
288+50	0	0	69	0	306	0	305
293+27	0	0	0	0	0	0	0
293+28	2	27.4	0	0	0	0	0
293+85	0.9	13.1	3	56	3	56	-53
294+10	1.3	2.1	1	9	4	65	-61
294+35	5	2.8	3	3	7	68	-61
300+00	0	0	0	0	0	0	0
300+16	6.9	3.3	2	1	2	1	1
300+41	3.2	5.3	5	5	7	6	0
300+66	5.3	4.4	4	6	11	12	-2
301+41	3.9	0.8	13	9	23	22	2
308+65	0	0	0	0	0	0	0
309+08	24.2	2.1	19	2	19	2	17
309+40	27.9	1	31	2	50	5	46
309+65	4.5	3.1	15	2	65	7	58
309+83	0	0	1	1	67	8	58
309+90	0	0	0	0	67	8	58
309+90	4.9	1	0	0	67	8	58
310+08	4.6	0.4	3	1	70	9	61
310+33	2.6	7.2	3	5	73	14	60
311+22	48.2	4.4	83	25	156	38	118
311+47	1.4	25.6	23	18	179	56	123
311+64	12.9	3.1	5	12	184	69	115
311+72	2.1	96	2	17	186	86	100
311+89	1.9	115.8	1	91	187	177	10
312+14	68.3	0.7	33	70	220	247	-27
312+47	0.4	96.3	41	75	261	322	-61
312+89	3.8	0.4	3	100	264	422	-158
374+50	0	0	0	0	0	0	0
375+00	65	0	60	0	60	0	60
375+46	62.7	0	109	0	170	0	170
376+00	63.2	0.2	125	0	295	0	295
376+50	0	0	59	0	353	0	353
440+50	0	0	0	0	0	0	0
441+00	71.9	0	67	0	67	0	67
441+68	62.2	0.8	169	1	236	1	234
442+00	69.8	0.1	78	1	314	2	312
442+50	0	0	65	0	378	2	376

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME *FILL (CY)	CUM VOLUME CUT (CY)	CUM VOLUME *FILL (CY)	MASS HAUL (CY)
414+25	0	0	0	0	0	0	0
414+31	4.3	0.8	0	0	0	0	0
414+53	2.7	0.3	3	1	3	1	3
414+78	7.3	0	5	0	8	1	7
414+85	1.4	0.4	1	0	9	1	8
415+03	7.8	0	3	0	12	1	11
415+36	1.5	91.1	6	72	18	73	-56
415+56	3.8	0.1	2	45	20	119	-99
418+57	3.1	0.4	38	4	58	122	-64
418+82	2.8	0.2	3	0	61	123	-62
419+07	0.6	0.4	2	0	63	123	-61
419+37	2.3	10.1	2	8	64	131	-67
423+40	1.4	17.1	28	264	92	395	-303
423+65	3	30	2	28	94	423	-329
423+90	2.4	23.9	2	32	96	455	-359
424+59	1.9	3.2	5	45	102	500	-398
460+75	0	0	0	0	0	0	0
460+87	5.6	3.8	1	1	1	1	0
461+42	4.5	3.8	10	10	11	11	0
461+77	3.7	5.4	5	8	17	19	-2
462+02	4.7	6.7	4	7	21	26	-5
462+27	8.1	0	6	4	27	30	-4
462+32	2.1	3.2	1	0	28	31	-3
462+57	2	5	2	5	29	35	-6
462+82	5	8.5	3	8	33	44	-11
463+58	5.1	3	14	21	47	65	-18
463+83	5.1	1.6	5	3	52	68	-16
464+08	2.1	3.2	3	3	55	70	-15
464+13	4.4	4.7	1	1	56	71	-16
464+38	26.6	0.9	14	3	70	75	-5
464+63	5.2	0.2	15	1	85	75	9
464+98	2.2	0.9	5	1	89	76	13
465+53	3.5	0	6	1	95	77	18
564+25	0	0	0	0	0	0	0
564+37	2.3	1.9	1	1	1	1	0
565+29	7.3	0	16	4	17	5	12
565+54	1.4	0.2	4	0	21	5	16
565+80	4.4	0	3	0	24	5	19
571+14	3.7	5.6	80	72	104	77	27
571+39	1	29.1	2	21	106	98	8
571+64	0.3	0.1	1	18	107	116	-9
572+99	4.4	0	12	0	118	116	2
573+87	12.9	0	28	0	146	116	30
574+20	7	0.9	12	1	159	117	42
574+90	10.4	0	23	2	181	118	63
575+15	4.7	0.1	7	0	188	118	70
575+24	100	0	17	0	205	118	86
575+40	9	0	33	0	238	118	120
575+49	19.5	0	4	0	243	118	124
575+74	13.3	0	15	0	258	118	139
577+00	0	0	0	0	0	0	0
577+21	11	0.2	4	0	4	0	4
577+46	81.8	0	43	0	47	0	47
577+51	0.3	8.8	8	1	55	1	54
577+71	13.4	0	5	4	60	6	54
577+76	10.6	0	2	0	62	6	57
578+01	0.4	9.2	5	6	67	11	56
578+74	7.6	0	11	16	78	27	51

Notes:
1) Salvaged/Unusable Pavement Material is included in Cut.
2) Does not include Unusable Pavement Excavation volume.
3) Will be backfilled with Cut or Borrow.
4) Plus quantity indicates an excess of material. Minus indicates a shortage of material.

9

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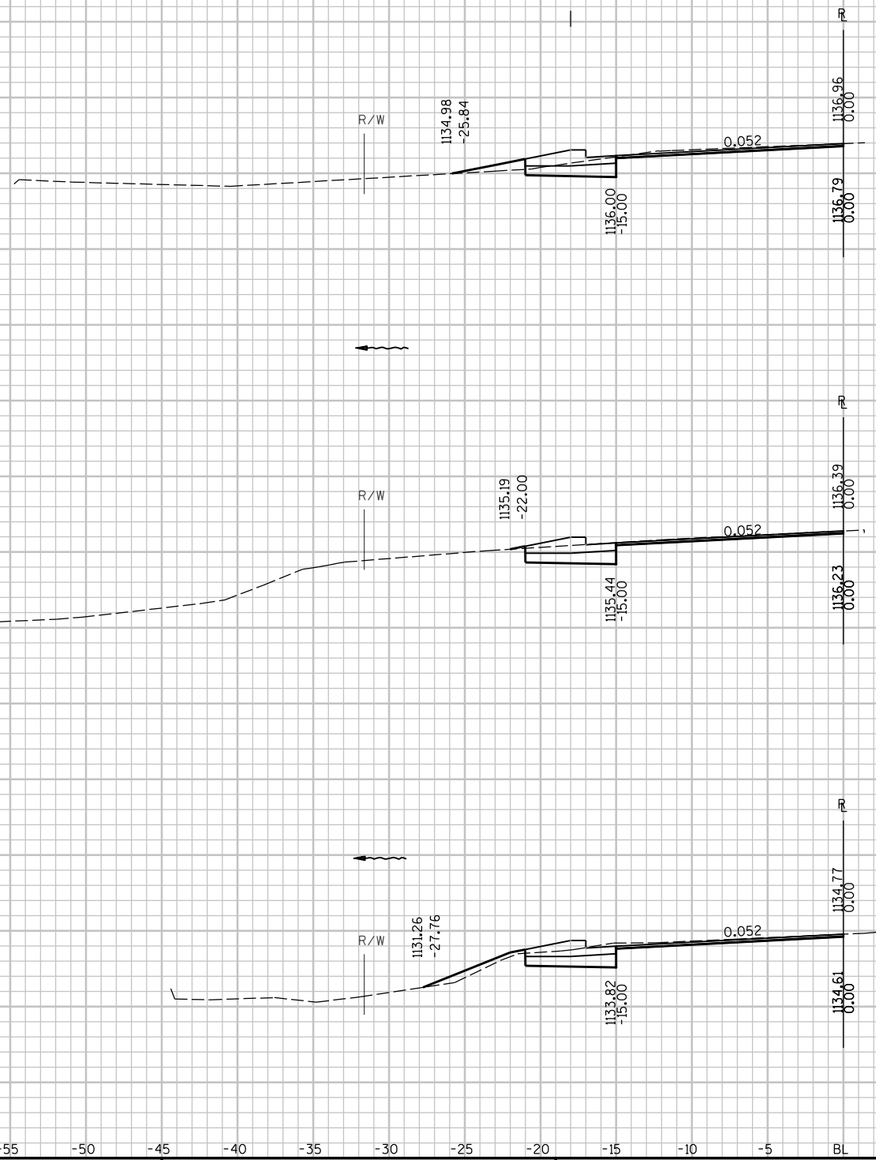
UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



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PROJECT NO :7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - CURB & GUTTER/DRIVEWAY	SHEET NO: 206	E

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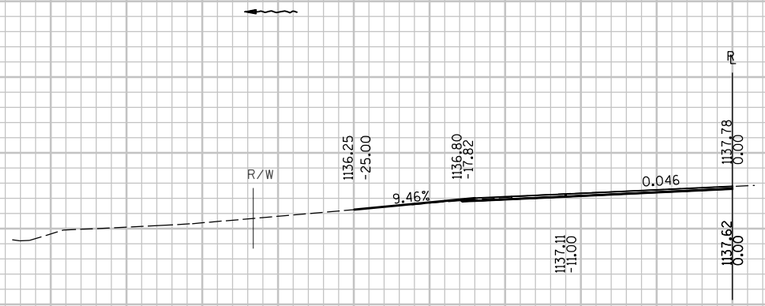
UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



DRIVEWAY PE
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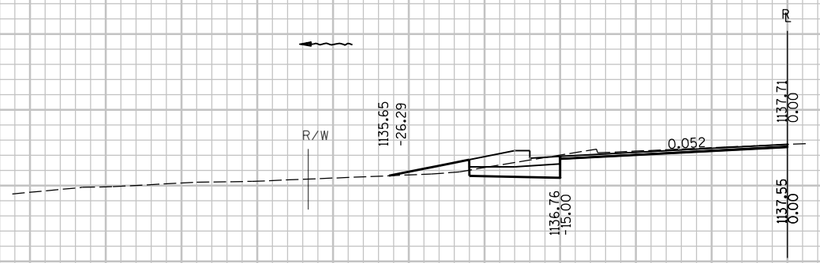

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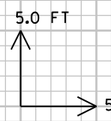

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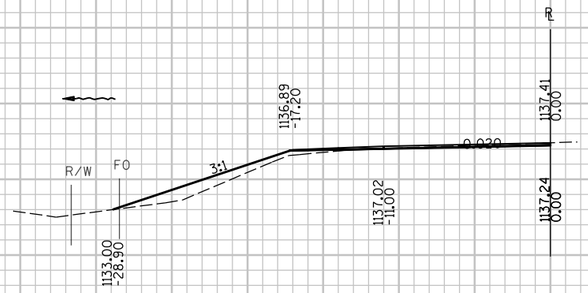
-75 -70 -65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 BL 5 10 15 20 25 30 35 40 45 50 55 60 65 70

9 9

PROJECT NO :7090-05-65	HWY :USH 12	COUNTY :ST. CROIX	CROSS SECTIONS - CURB & GUTTER/DRIVEWAY	SHEET NO: 207	E

FILE NAME : P:\UZ\W\Winw\118872\CAD\XBUSH12SC DRIVES.dgn PLOT TIME : 4:08:36 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



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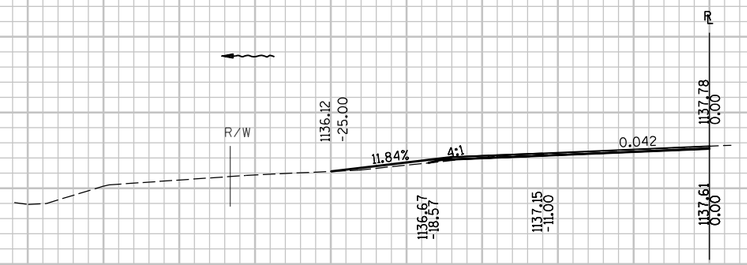

549+00

5.0 FT
5.0 FT

-75 -70 -65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 BL 5 10 15 20 25 30 35 40 45 50 55 60 65 70

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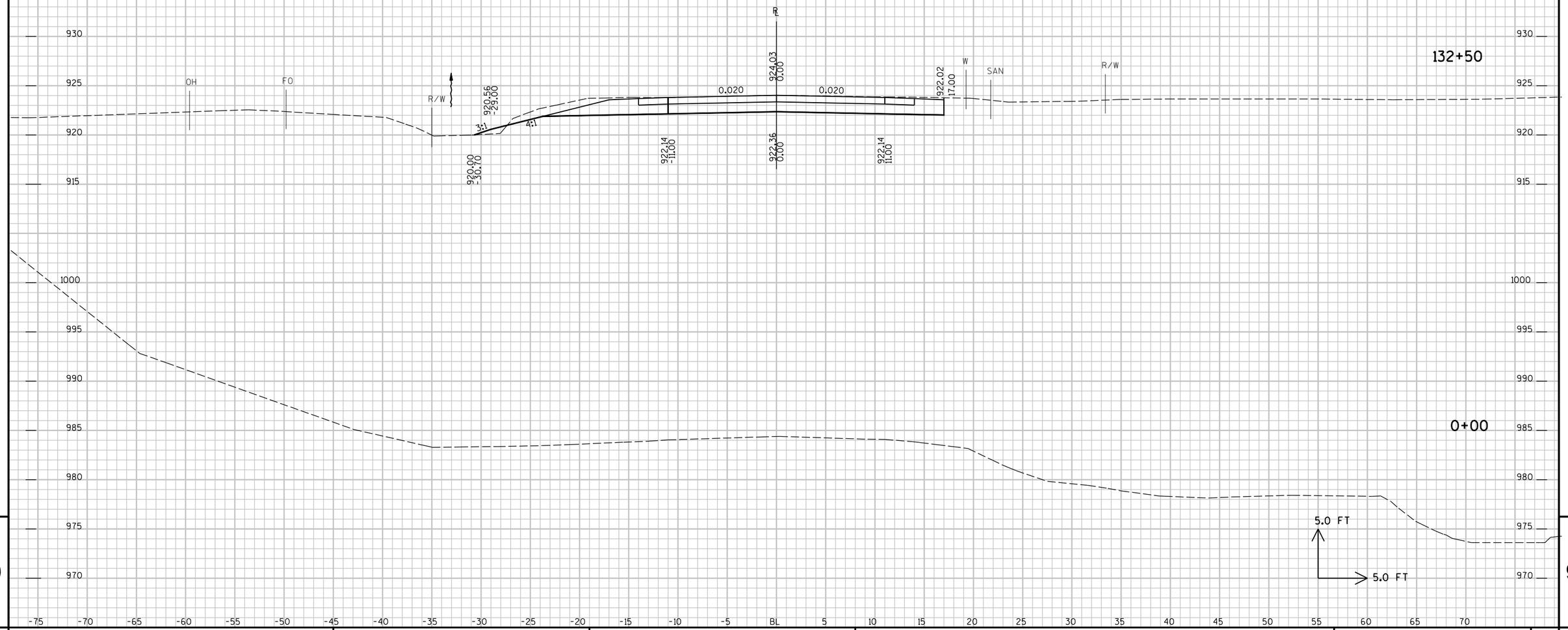
PROJECT NO :7090-05-65 | HWY :USH 12 | COUNTY :ST. CROIX | CROSS SECTIONS - CURB & GUTTER/DRIVEWAY | SHEET NO: 208 | E

FILE NAME : P:\UZ\W\Wi+nw\118872\CAD\XBUSH12SC DRIVES.dgn PLOT TIME : 4:08:36 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



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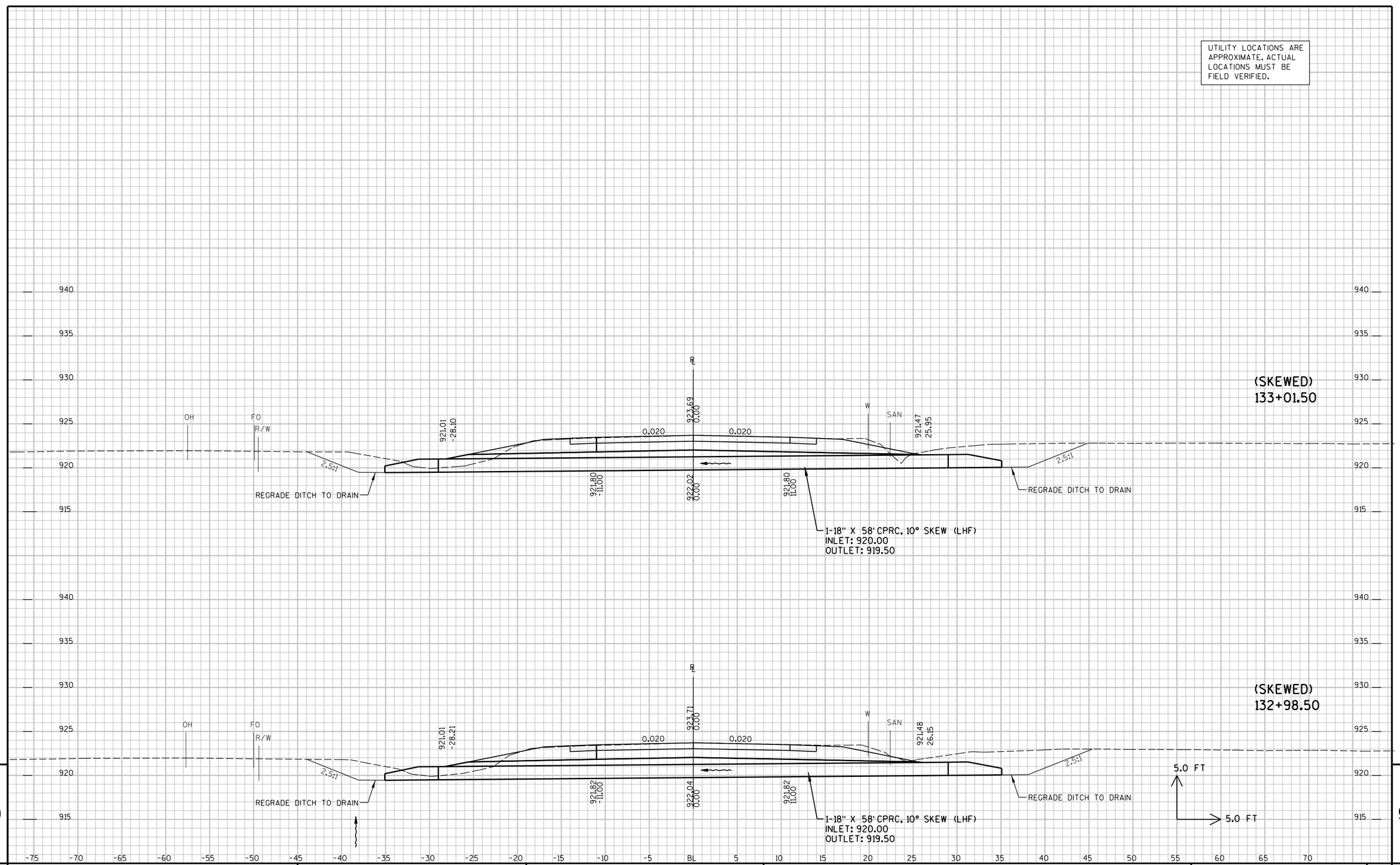
PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : DUNN	CROSS SECTIONS -	SHEET NO: 209	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC DUNN PIPES.dgn PLOT TIME : 4:08:37 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



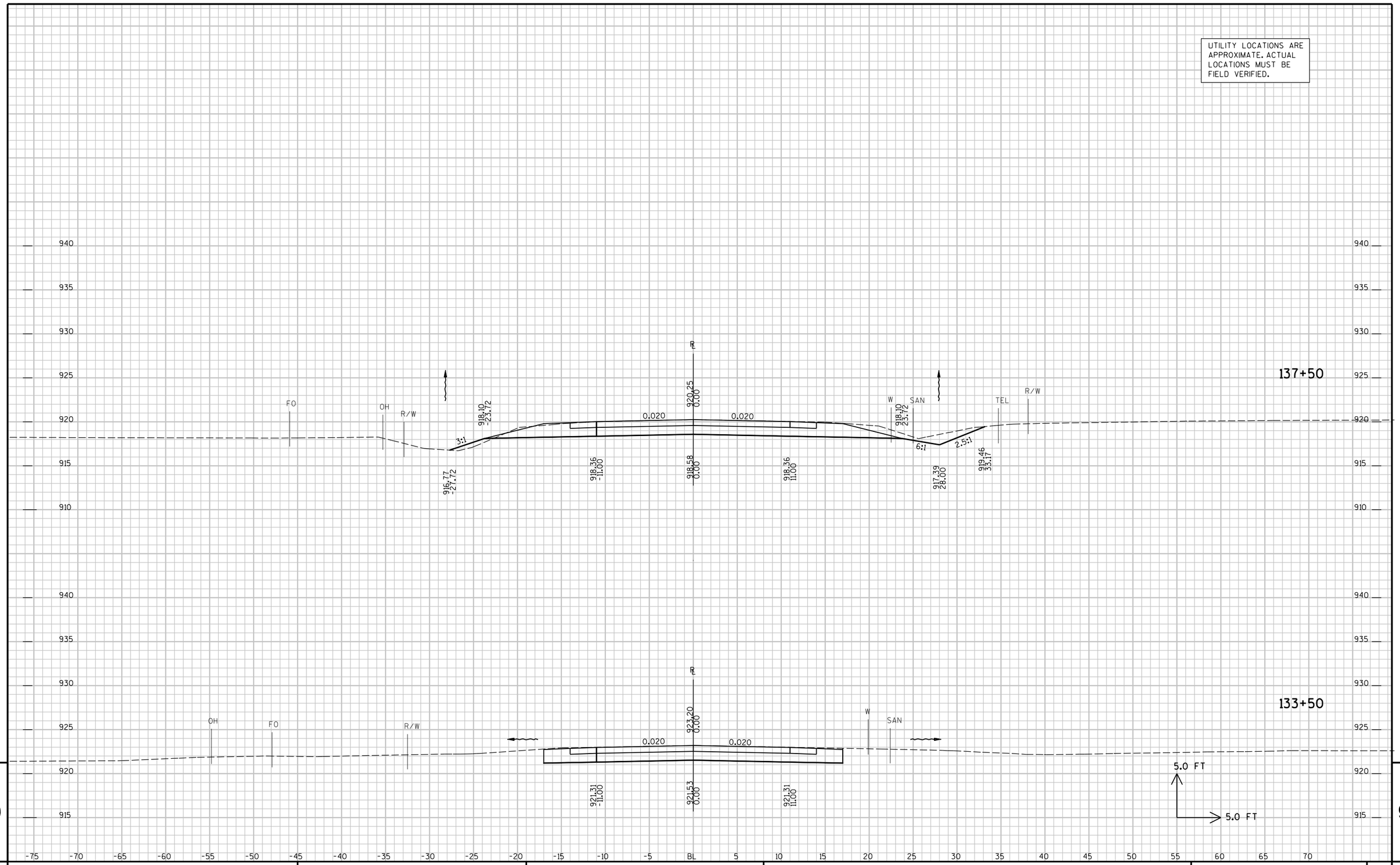
9

9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : DUNN	CROSS SECTIONS -	SHEET NO: 210	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC DUNN PIPES.dgn PLOT TIME : 4:08:37 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

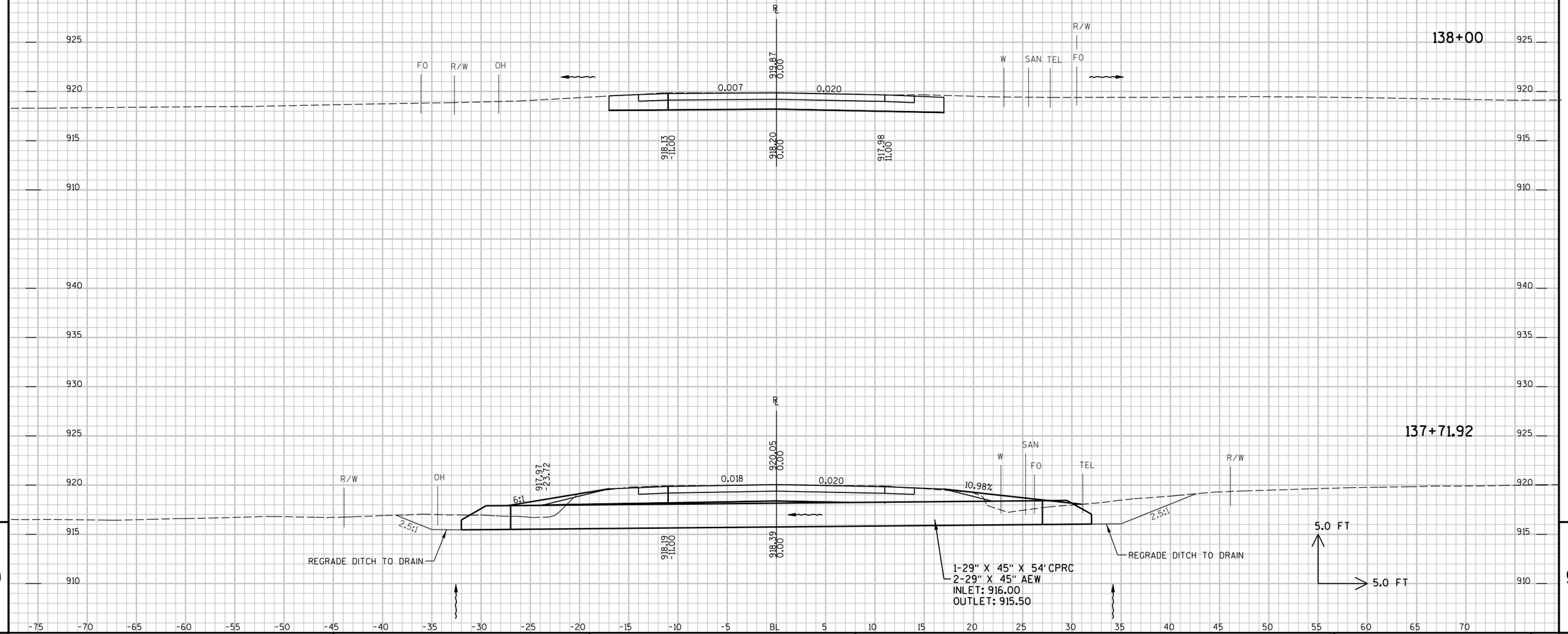


9 9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : DUNN	CROSS SECTIONS -	SHEET NO: 211	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC DUNN PIPES.dgn PLOT TIME : 4:08:37 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

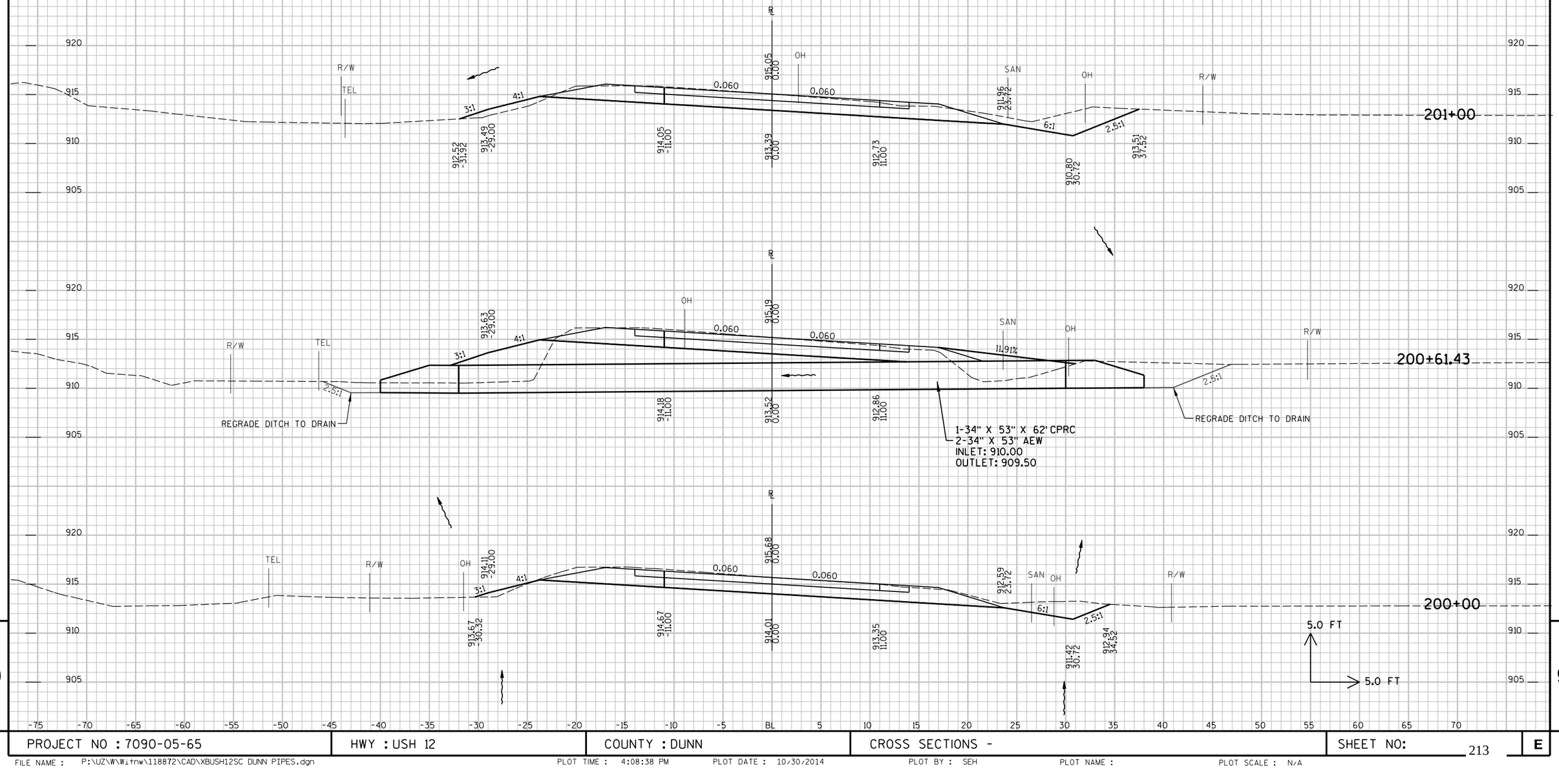


9 9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : DUNN	CROSS SECTIONS -	SHEET NO: 212	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC DUNN PIPES.dgn PLOT TIME : 4:08:38 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

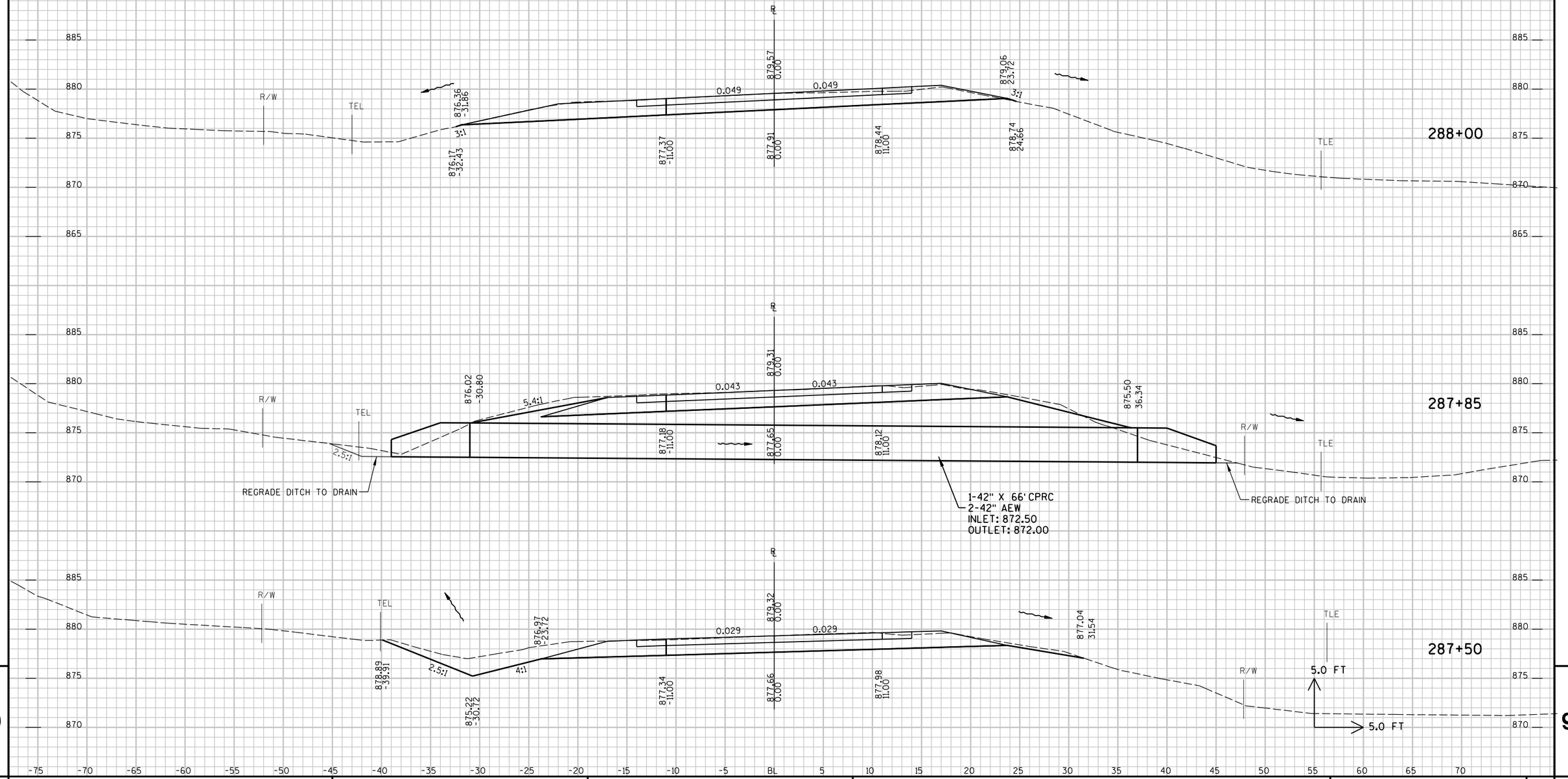


9 9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : DUNN	CROSS SECTIONS -	SHEET NO: 213	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC DUNN PIPES.dgn PLOT TIME : 4:08:38 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

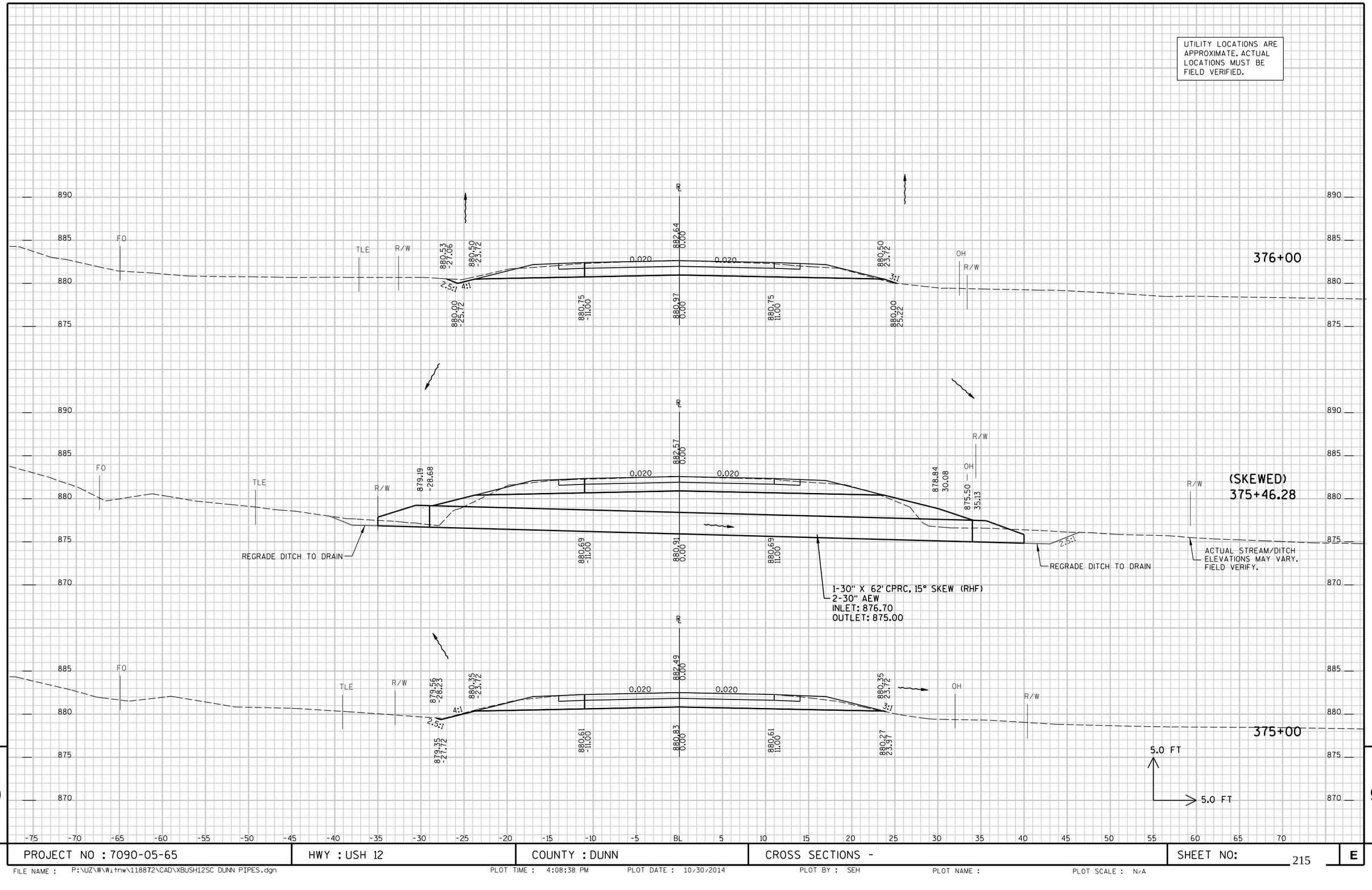


9 9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : DUNN	CROSS SECTIONS -	SHEET NO: 214	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC DUNN PIPES.dgn PLOT TIME : 4:08:38 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

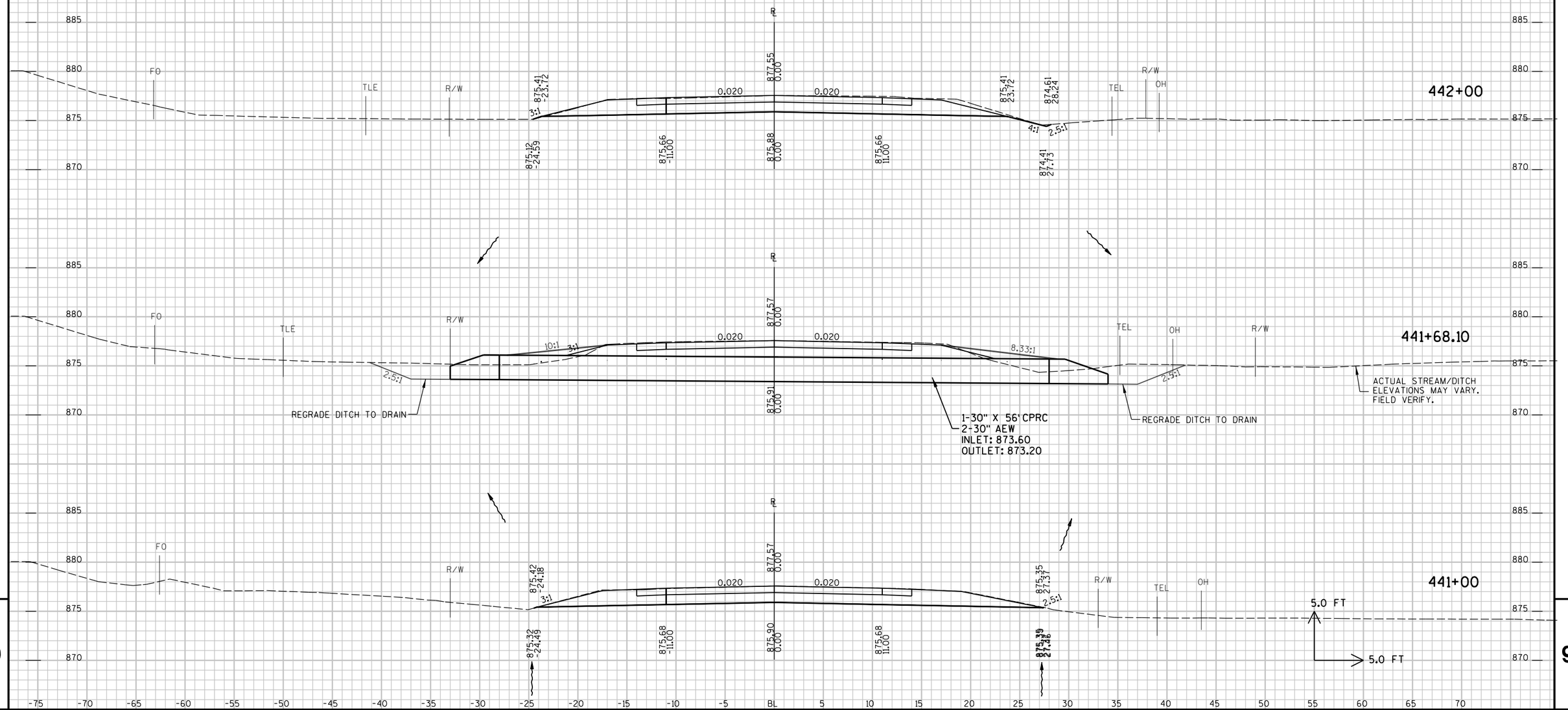
UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : DUNN	CROSS SECTIONS -	SHEET NO:

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC DUNN PIPES.dgn PLOT TIME : 4:08:38 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

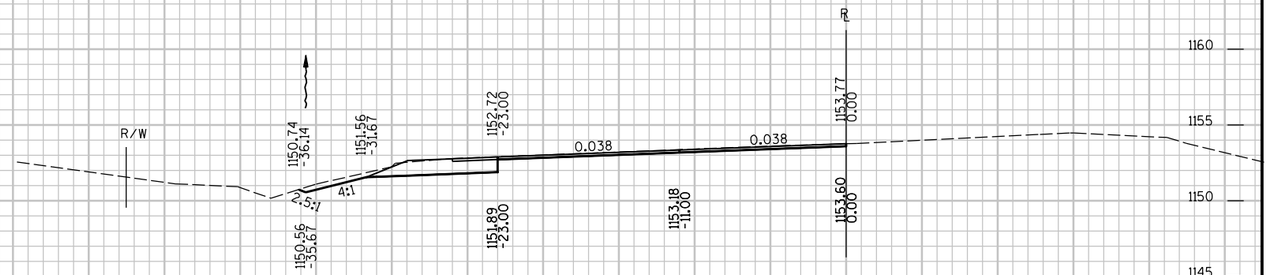


9 9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : DUNN	CROSS SECTIONS -	SHEET NO:	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC DUNN PIPES.dgn PLOT TIME : 4:08:39 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



575+00

5.0 FT

5.0 FT

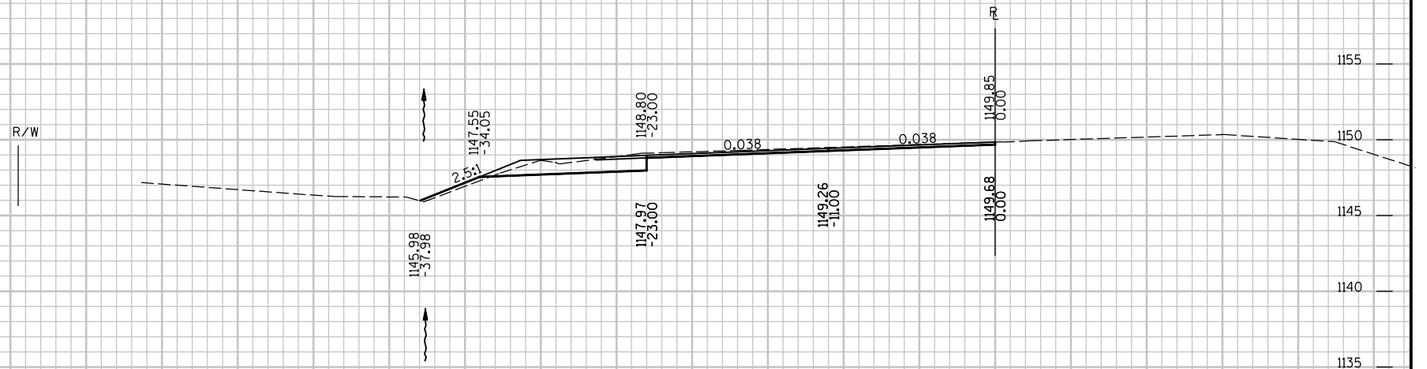
9

9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 217	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:39 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



575+81.40

5.0 FT
5.0 FT

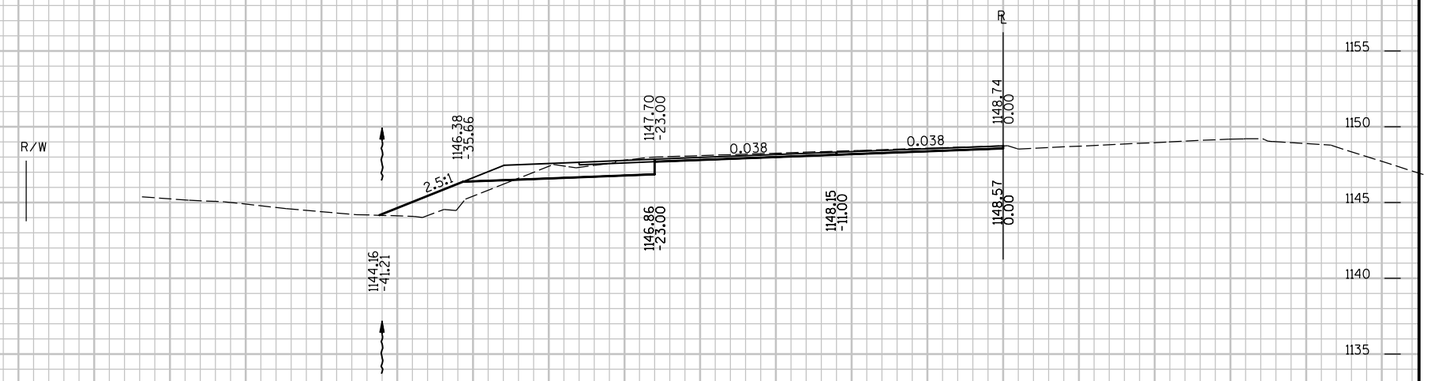
9

9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 218	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:40 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



576+04.47

5.0 FT
5.0 FT

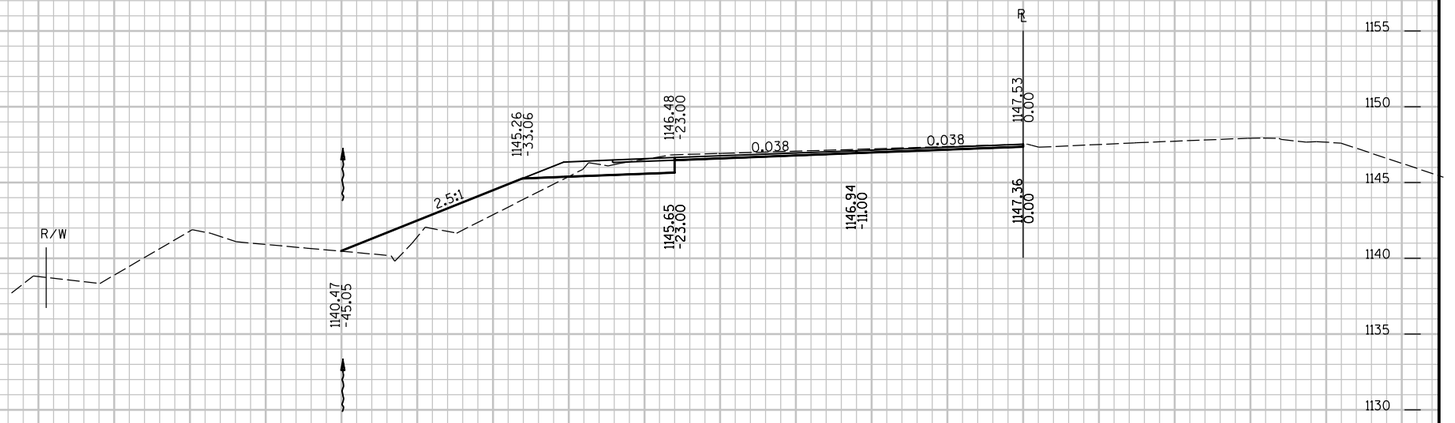
9

9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 219	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:40 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



576+29.68

5.0 FT

5.0 FT

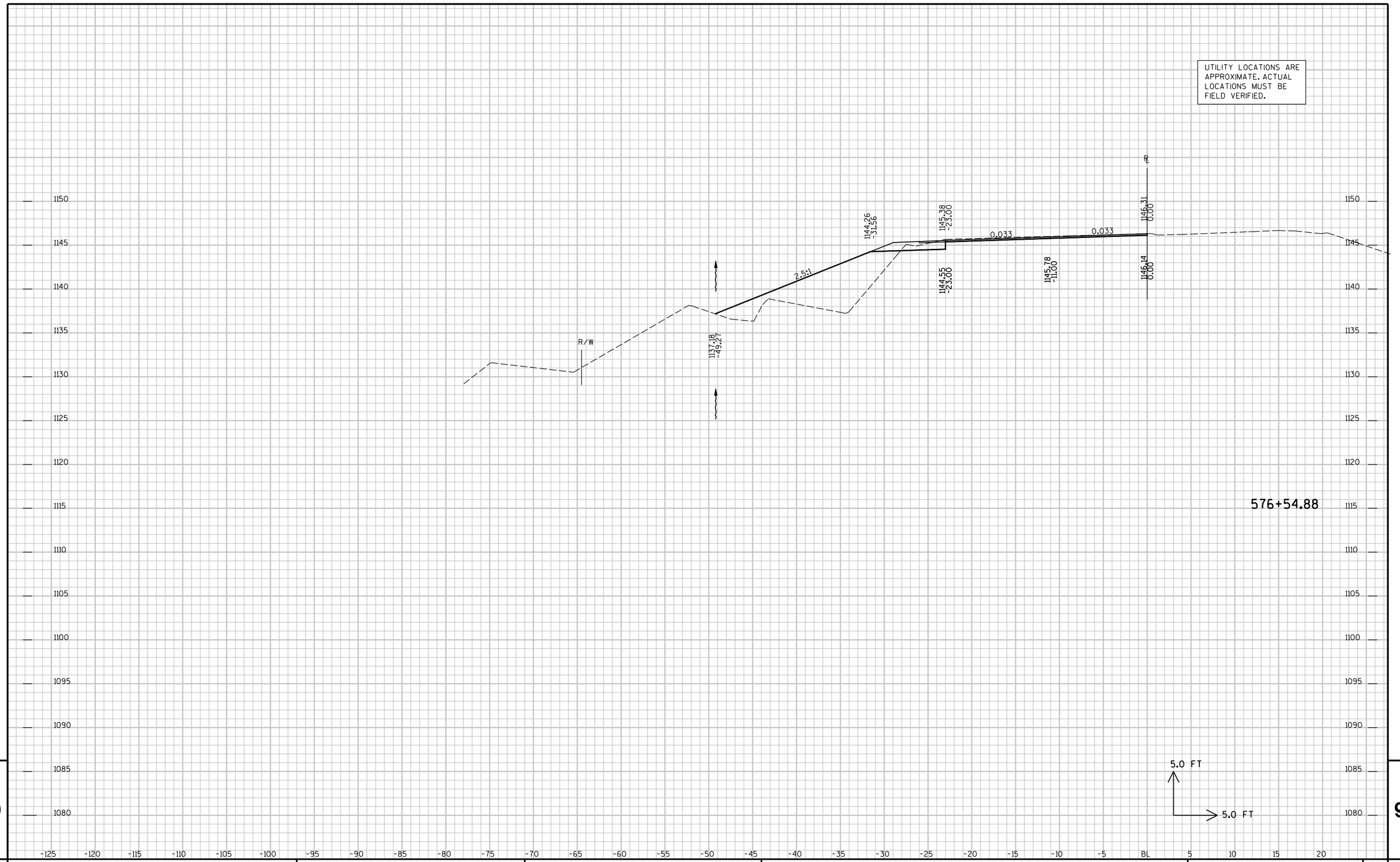
9

9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 220	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:46 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



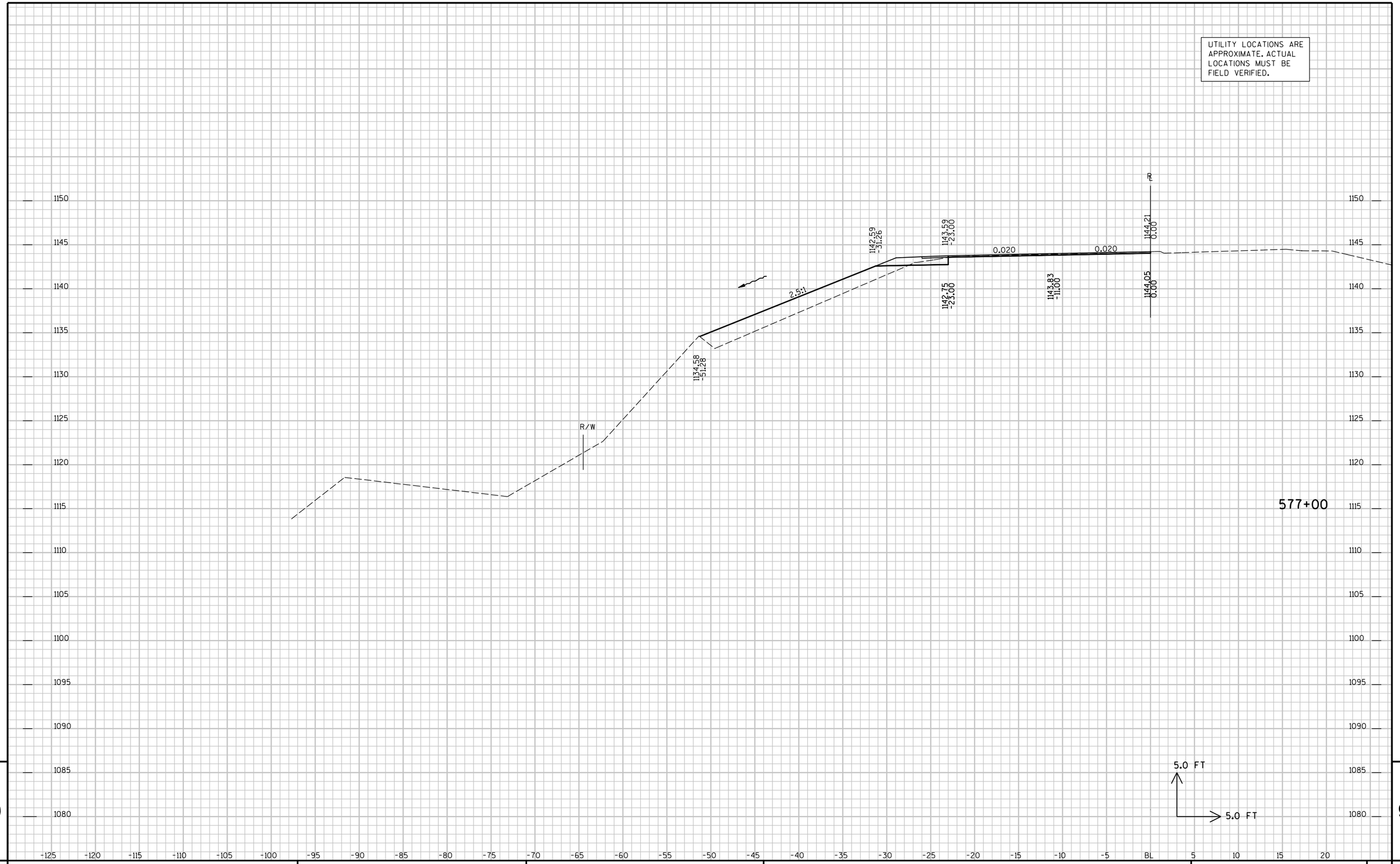
9

9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO:	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:46 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



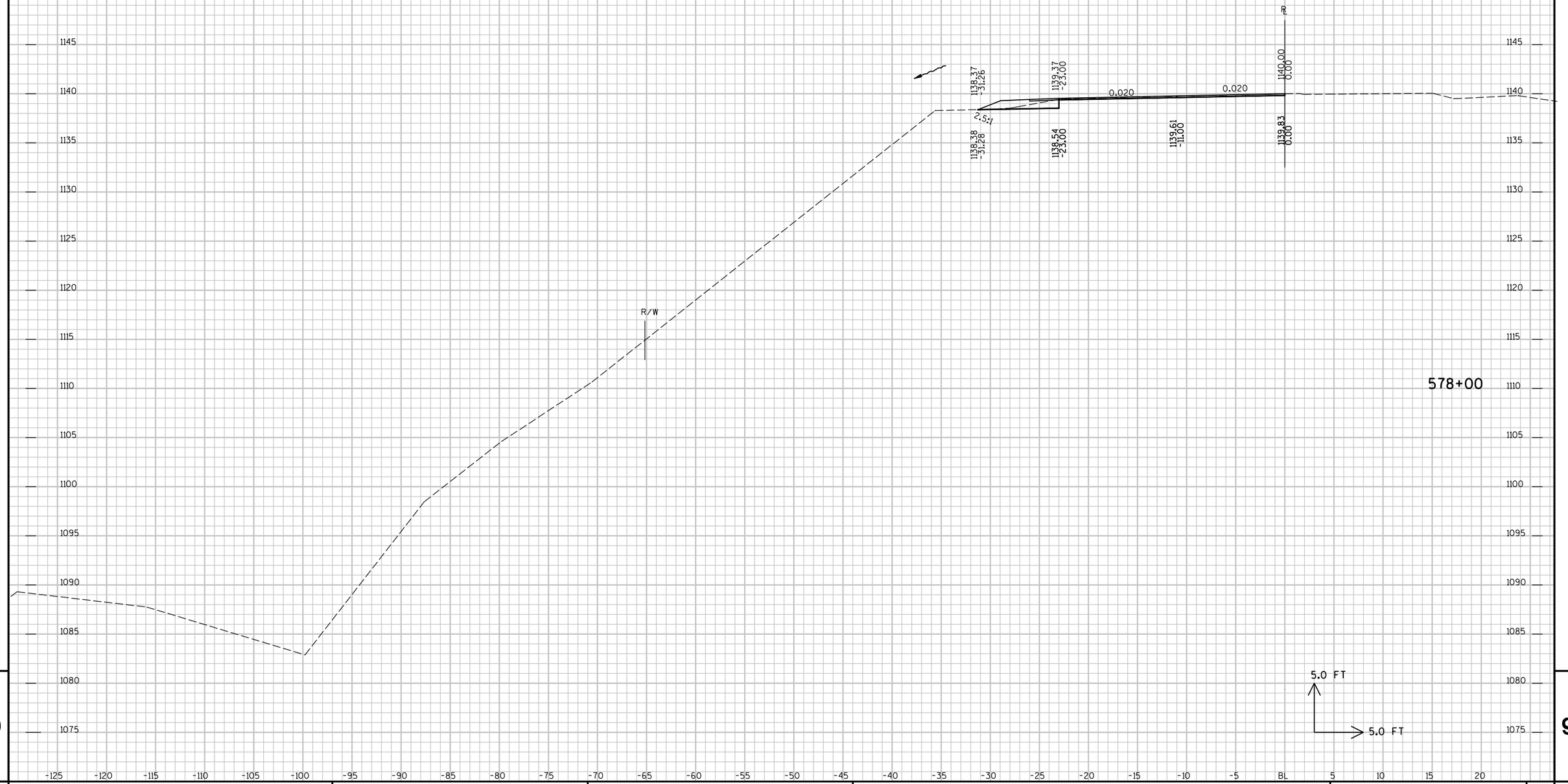
9

9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 222	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:46 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



578+00

5.0 FT

5.0 FT

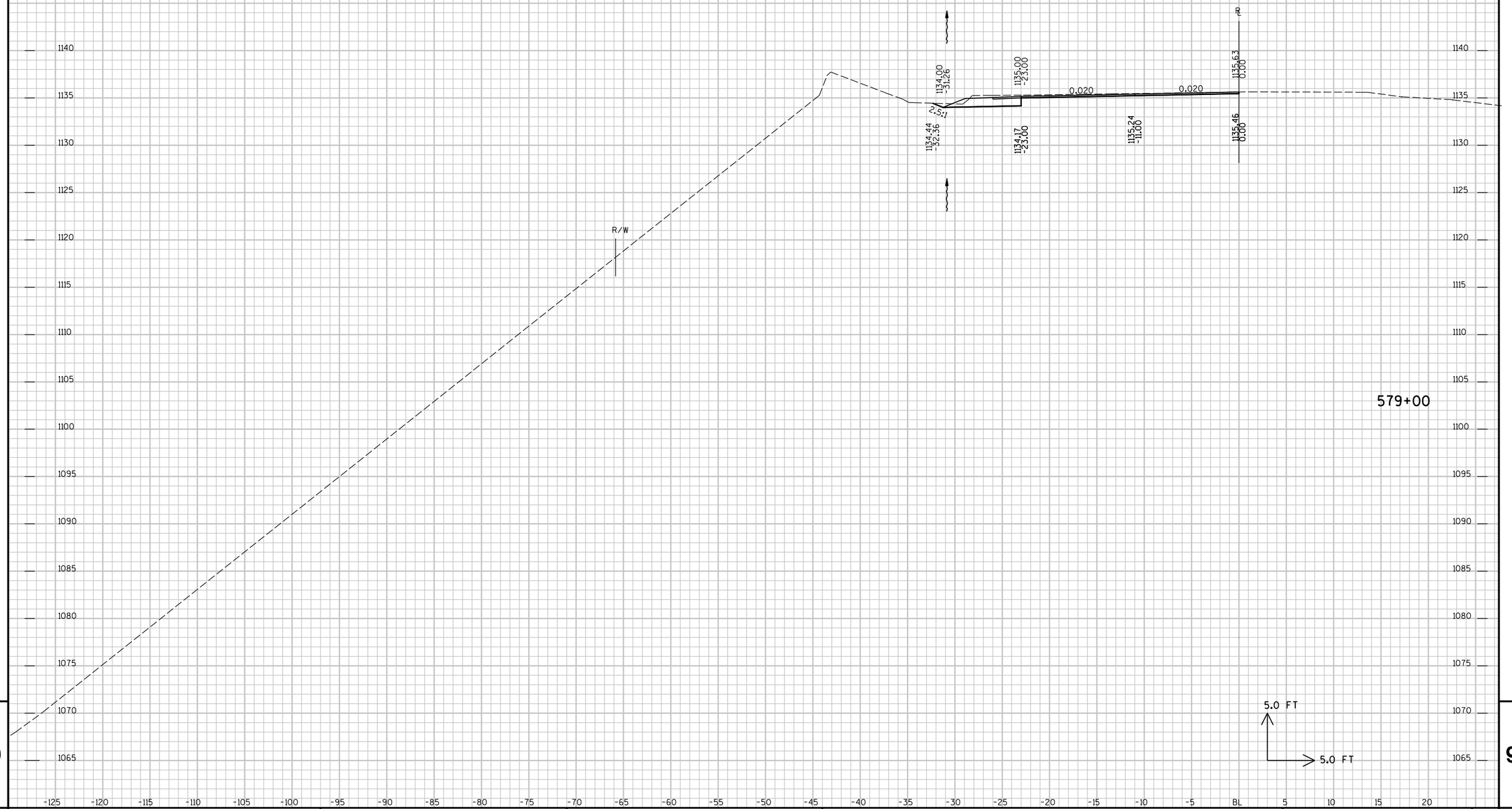
9

9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 223	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:46 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

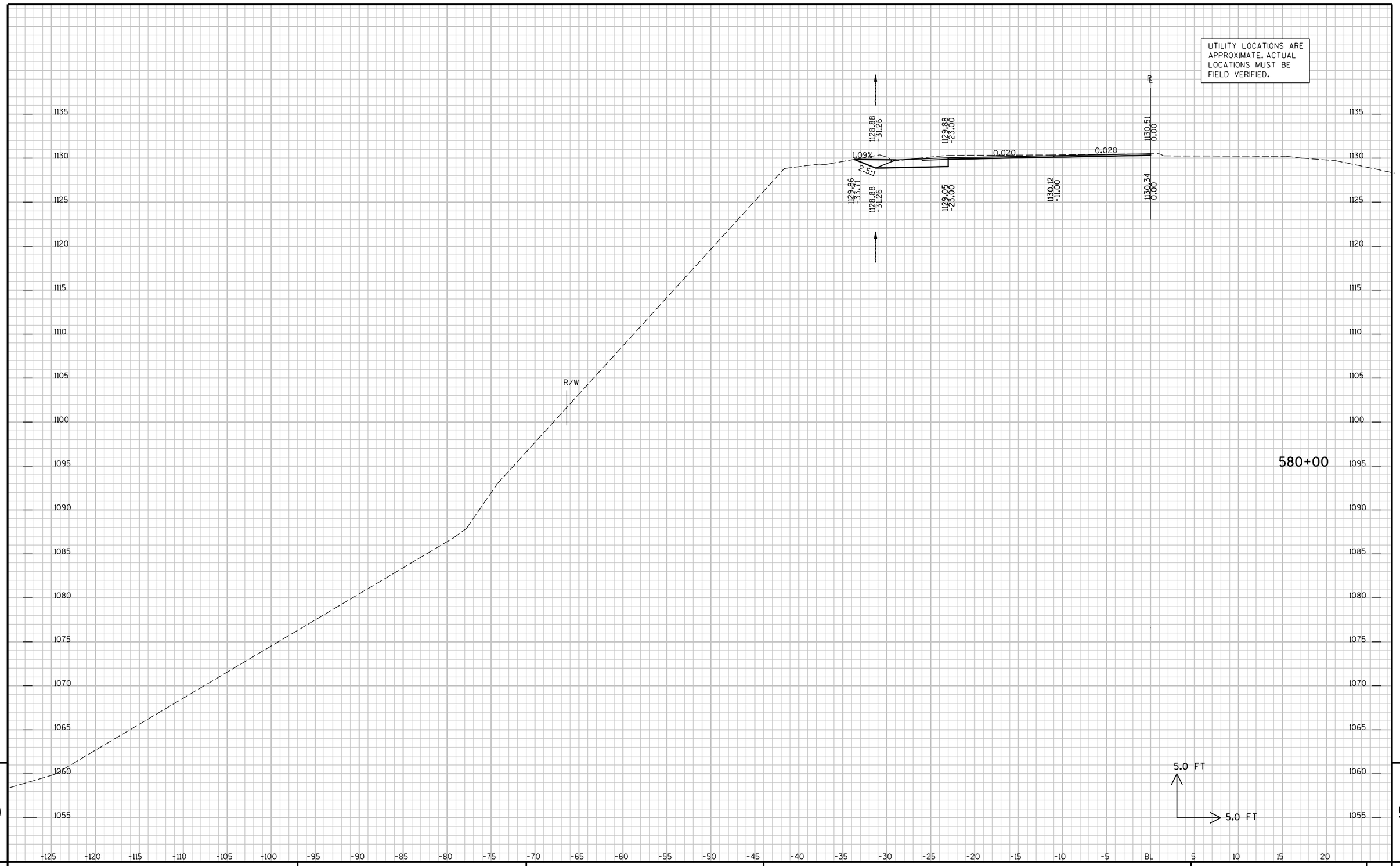


9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 224	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:47 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO:	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:47 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

581+00

1124.05
-31.34

1124.75
-23.00

0.017

0.017

1124.52
0.00

2.5:1

1123.08
-33.76

1123.91
-23.00

1124.54
-11.00

1124.35
0.00

R/W

1130 1125 1120 1115 1110 1105 1100 1095 1090 1085 1080 1075 1070 1065 1060 1055 1050 1045

-125 -120 -115 -110 -105 -100 -95 -90 -85 -80 -75 -70 -65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 BL 5 10 15 20

5.0 FT

5.0 FT

9

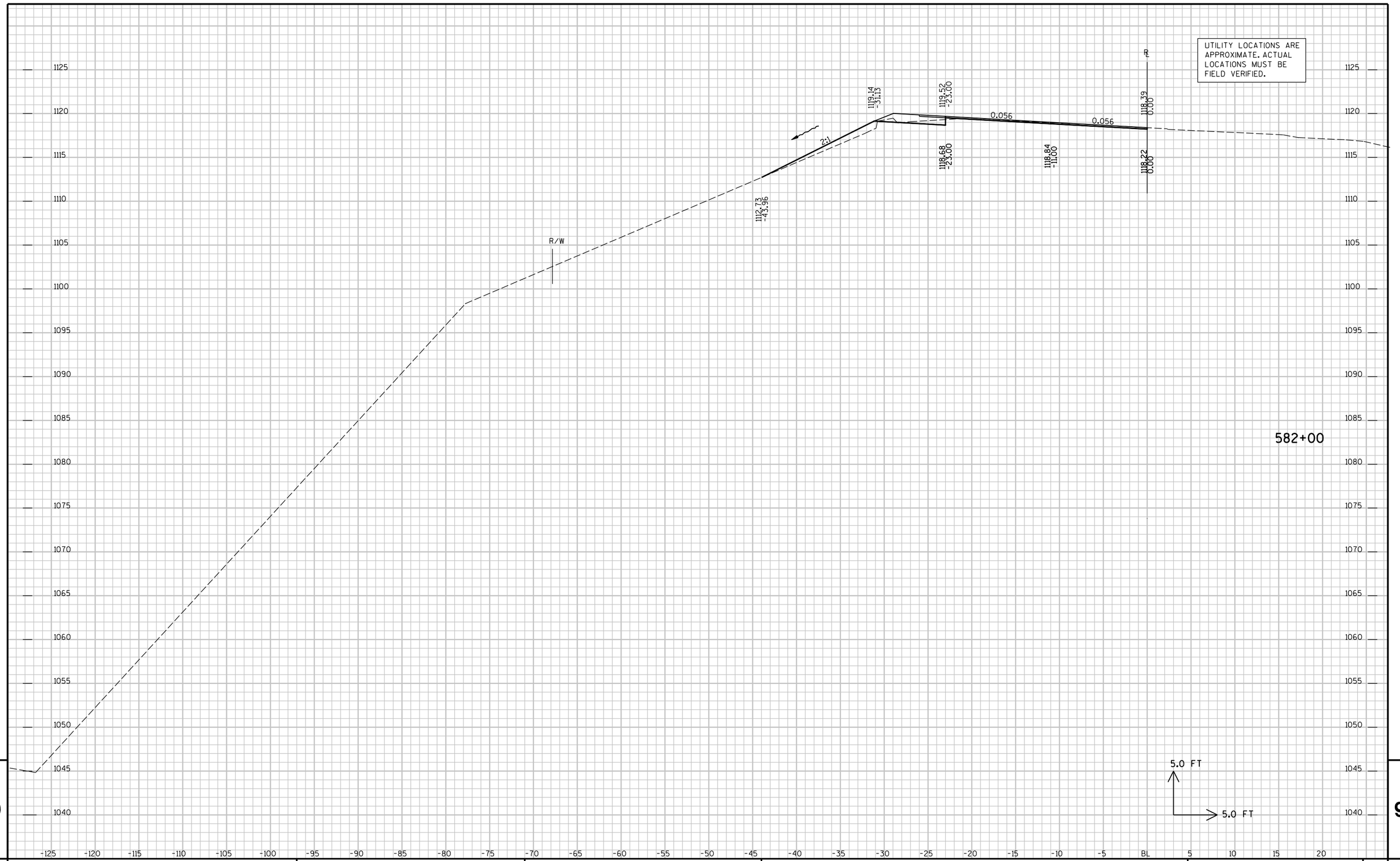
9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO:	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:47 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

582+00



5.0 FT

5.0 FT

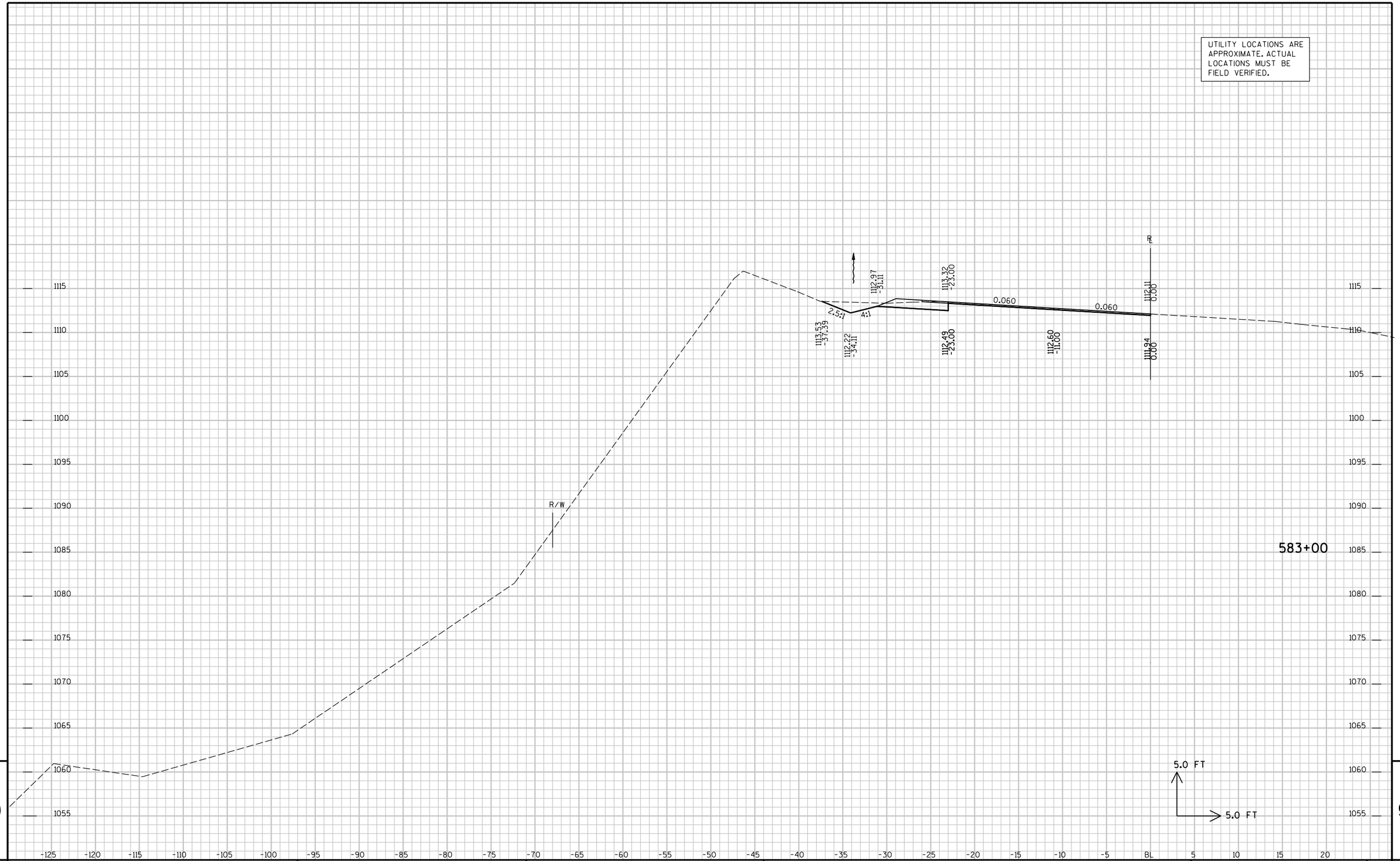
9

9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 227	E

FILE NAME : P:\UZ\W\W1tnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:48 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



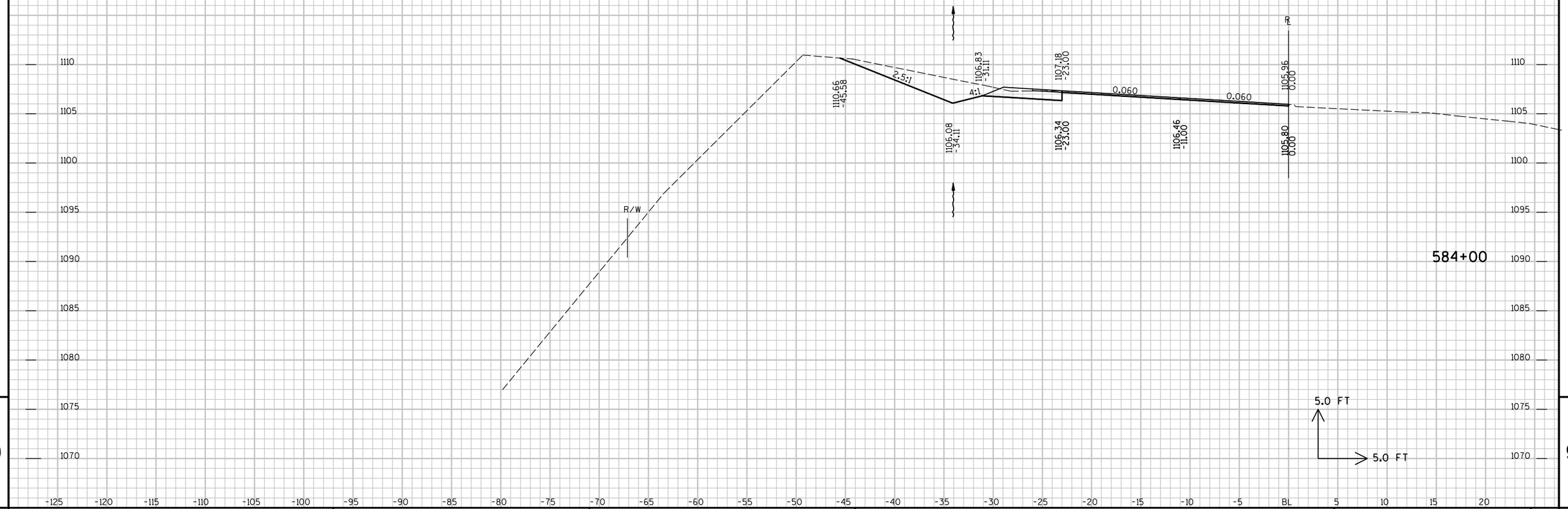
9

9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 228	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:48 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



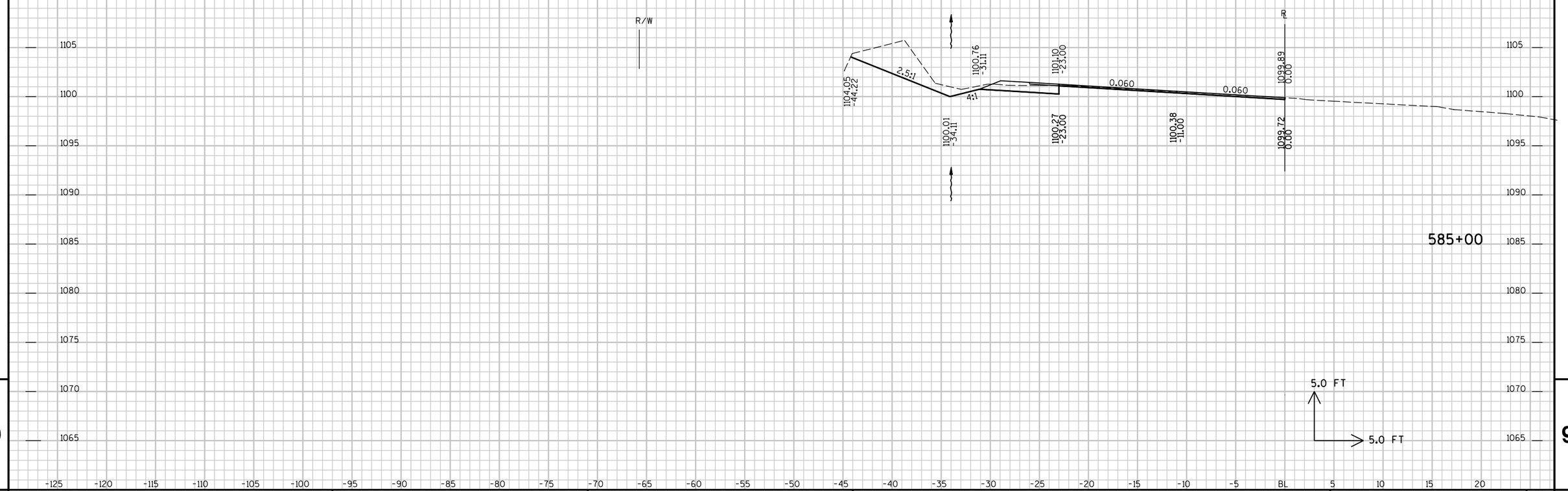
9

9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 229	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:48 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



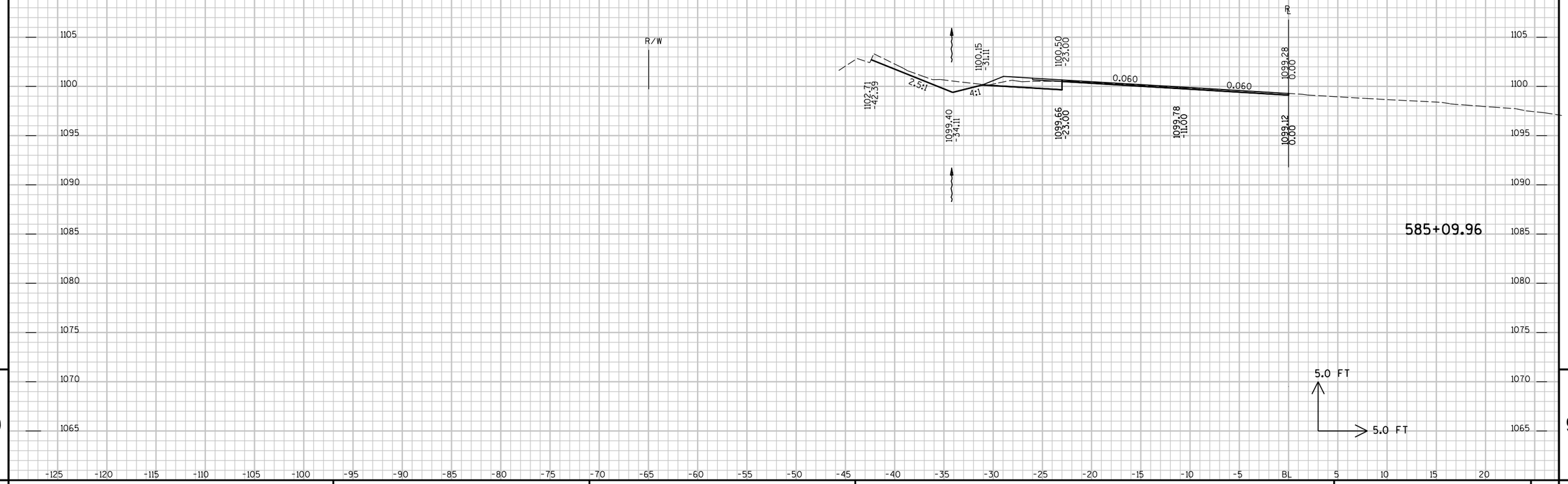
9

9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 230	E

FILE NAME : P:\UZ\W\W1nw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:48 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



9 9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 231	E

FILE NAME : P:\UZ\W\Wi1nw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:49 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

9

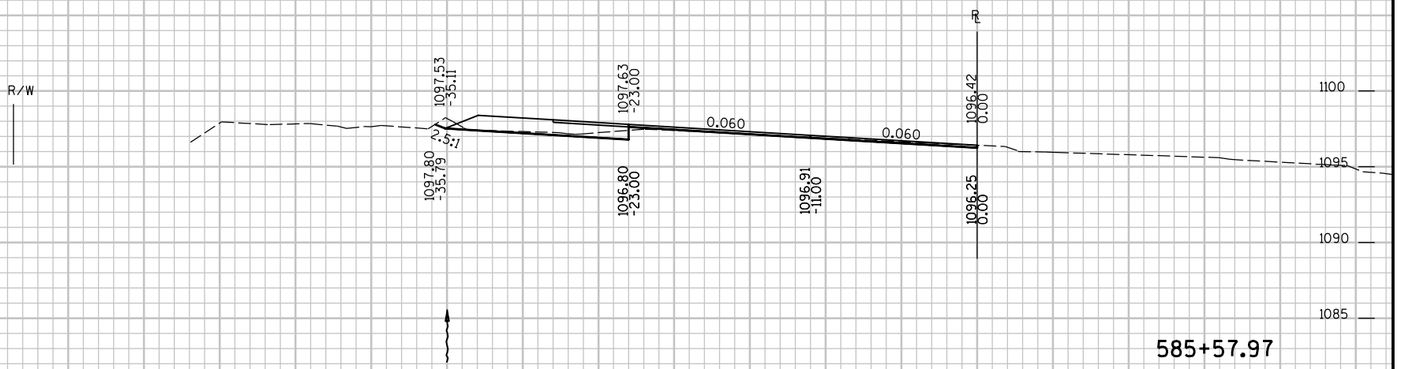
9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 232	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:49 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

585+72.36



585+57.97

5.0 FT
5.0 FT

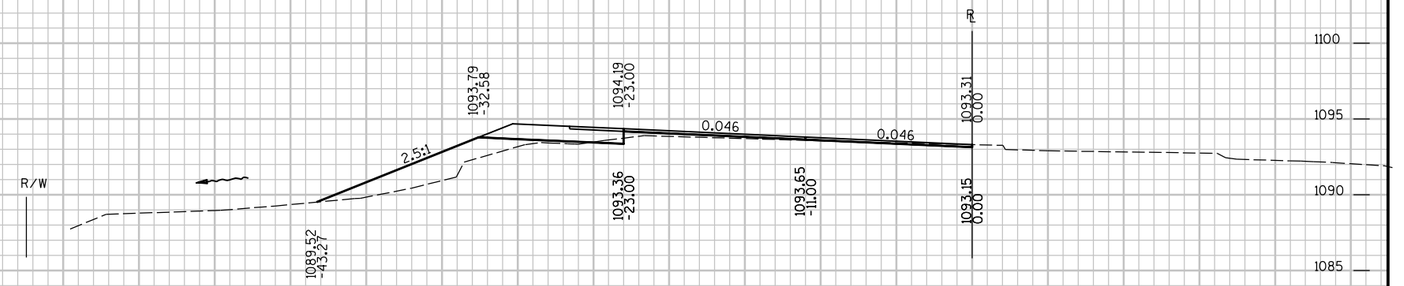
-125 -120 -115 -110 -105 -100 -95 -90 -85 -80 -75 -70 -65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 BL 5 10 15 20

9 9

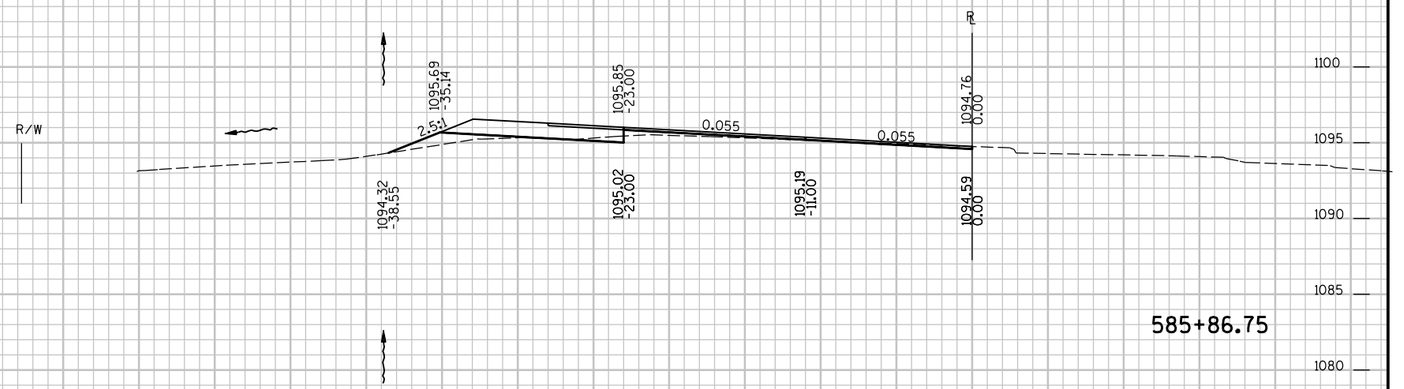
PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 233	E

FILE NAME : P:\UZ\W\W1nw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:49 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



586+10.72



585+86.75

5.0 FT

5.0 FT

1100 1095 1090 1085 1080 1075 1070 1065

-125 -120 -115 -110 -105 -100 -95 -90 -85 -80 -75 -70 -65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 BL 5 10 15 20

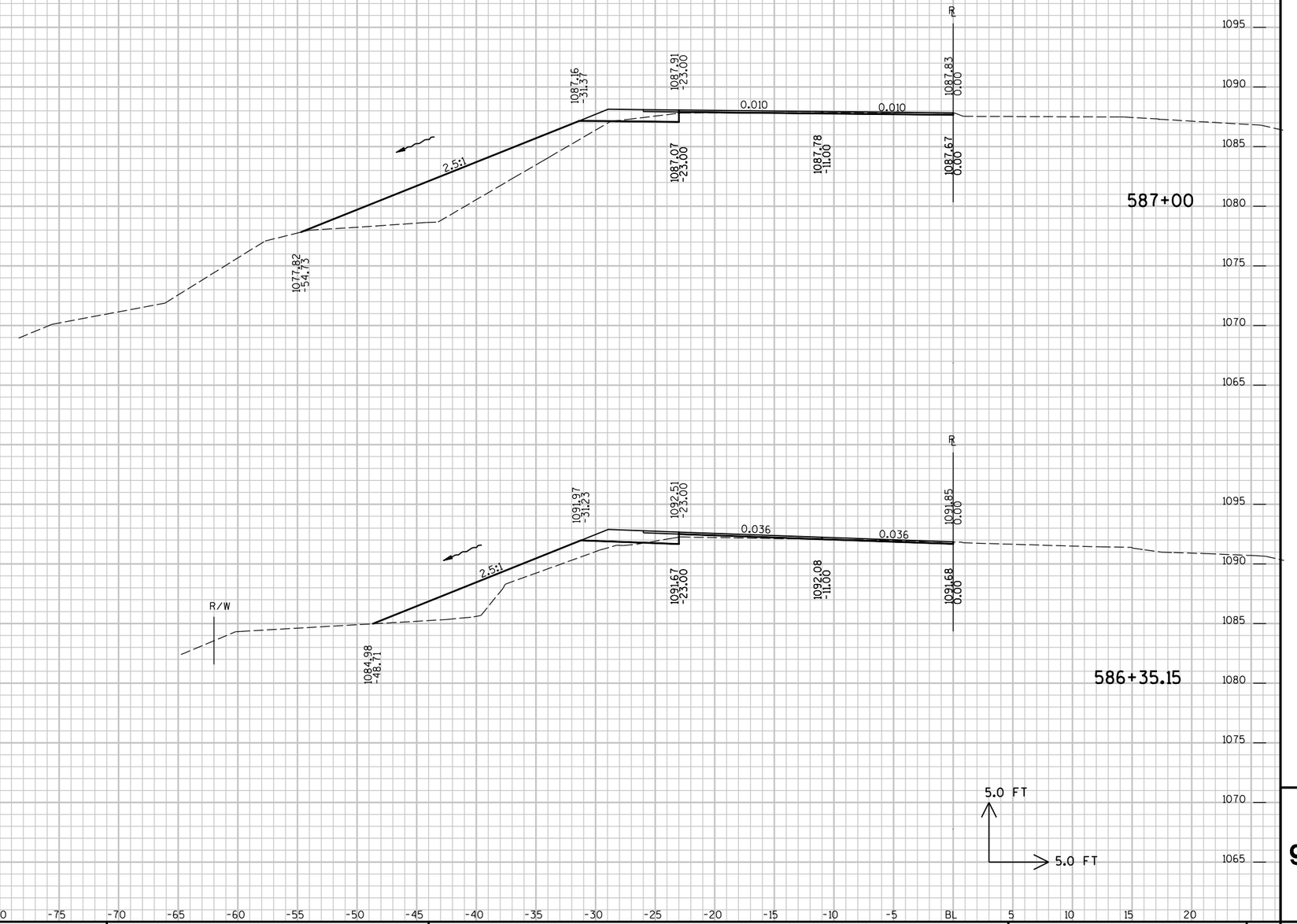
9

9

PROJECT NO : 7090-05-65 | HWY : USH 12 | COUNTY : ST. CROIX | CROSS SECTIONS - TRUCK LANE | SHEET NO: 234 | E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:49 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



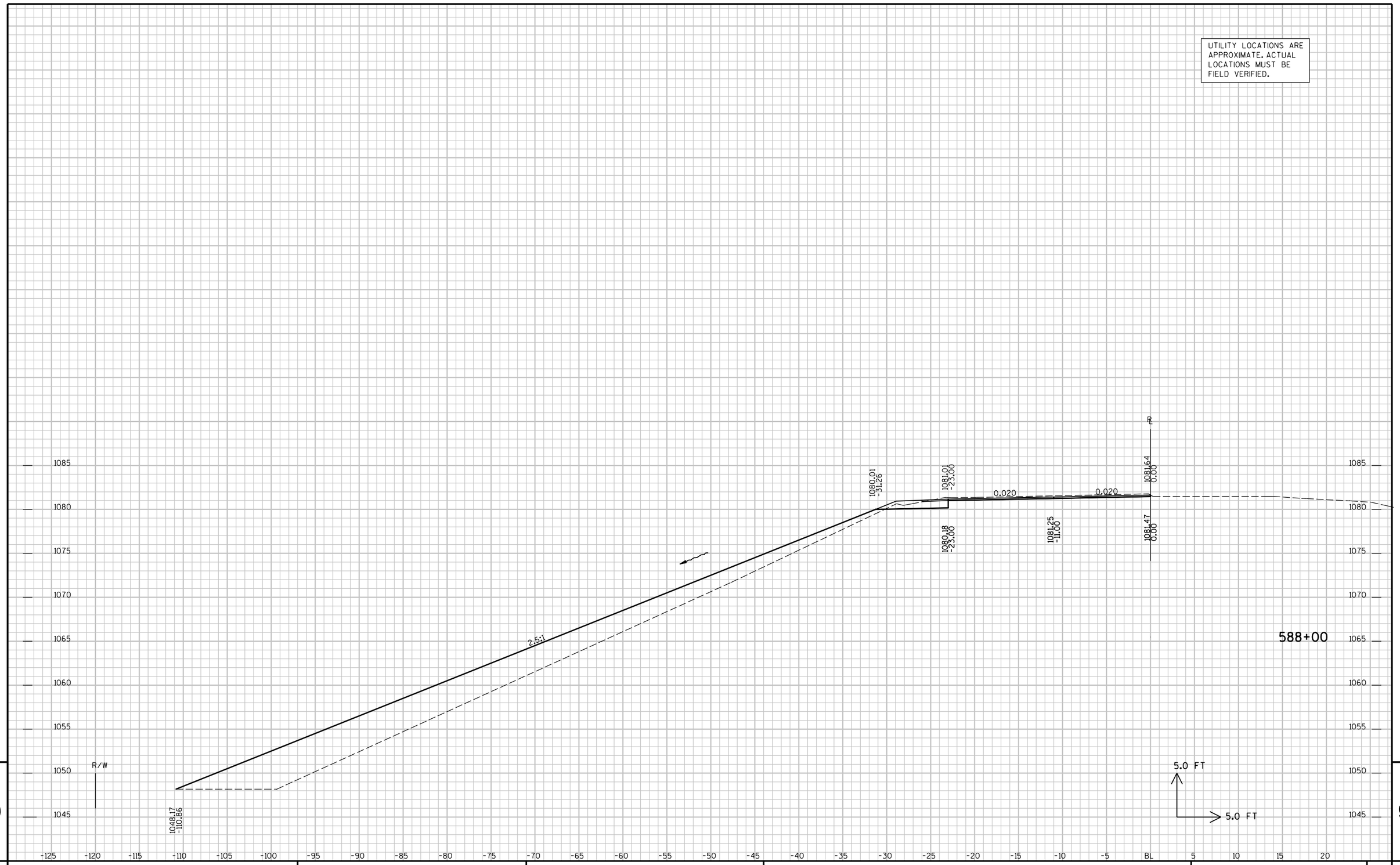
9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 235	E

FILE NAME : P:\UZ\W\Wi1nw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:50 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

9

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



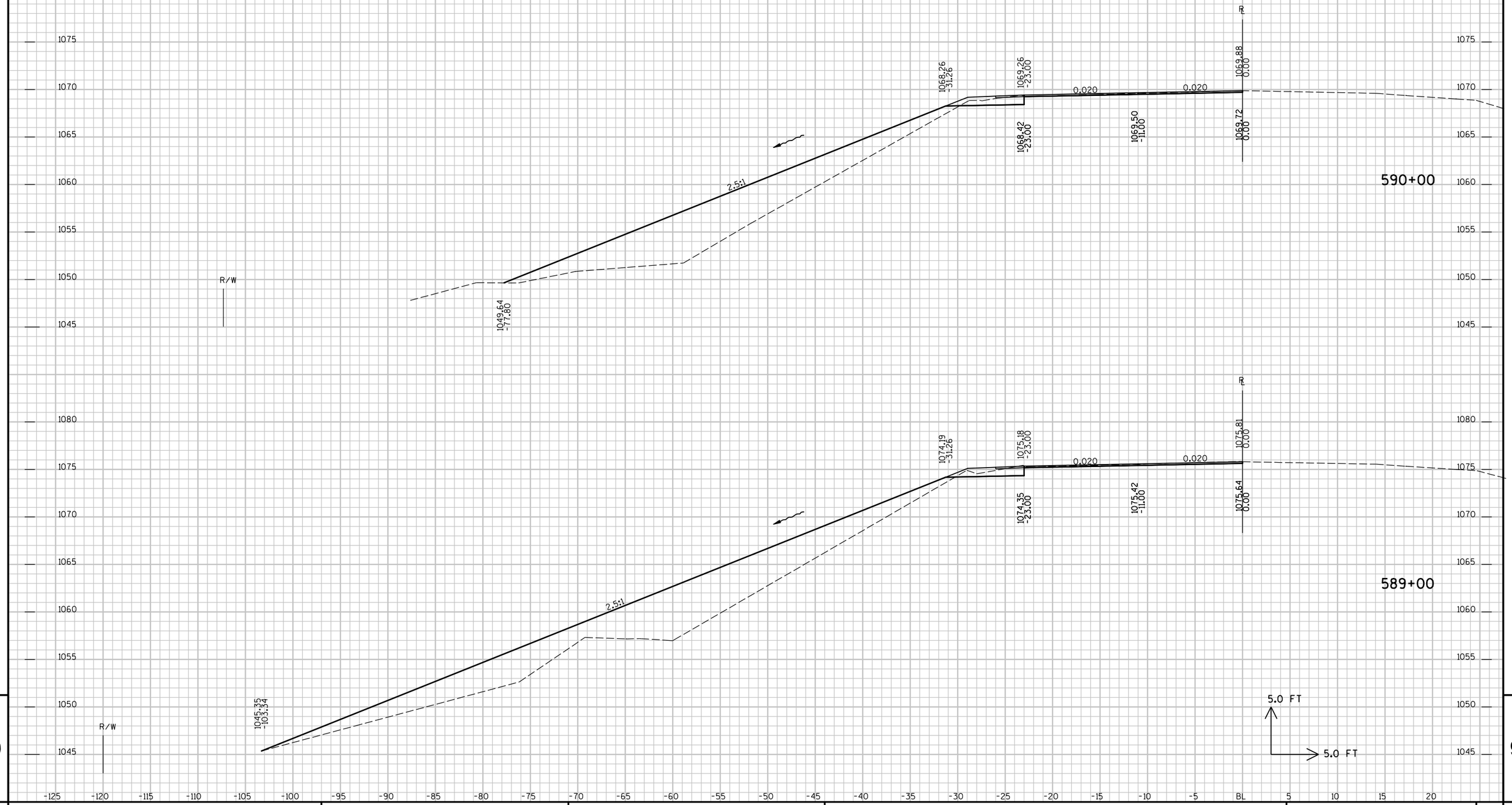
9

9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 236	E

FILE NAME : P:\UZ\W\Wi1nw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:50 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



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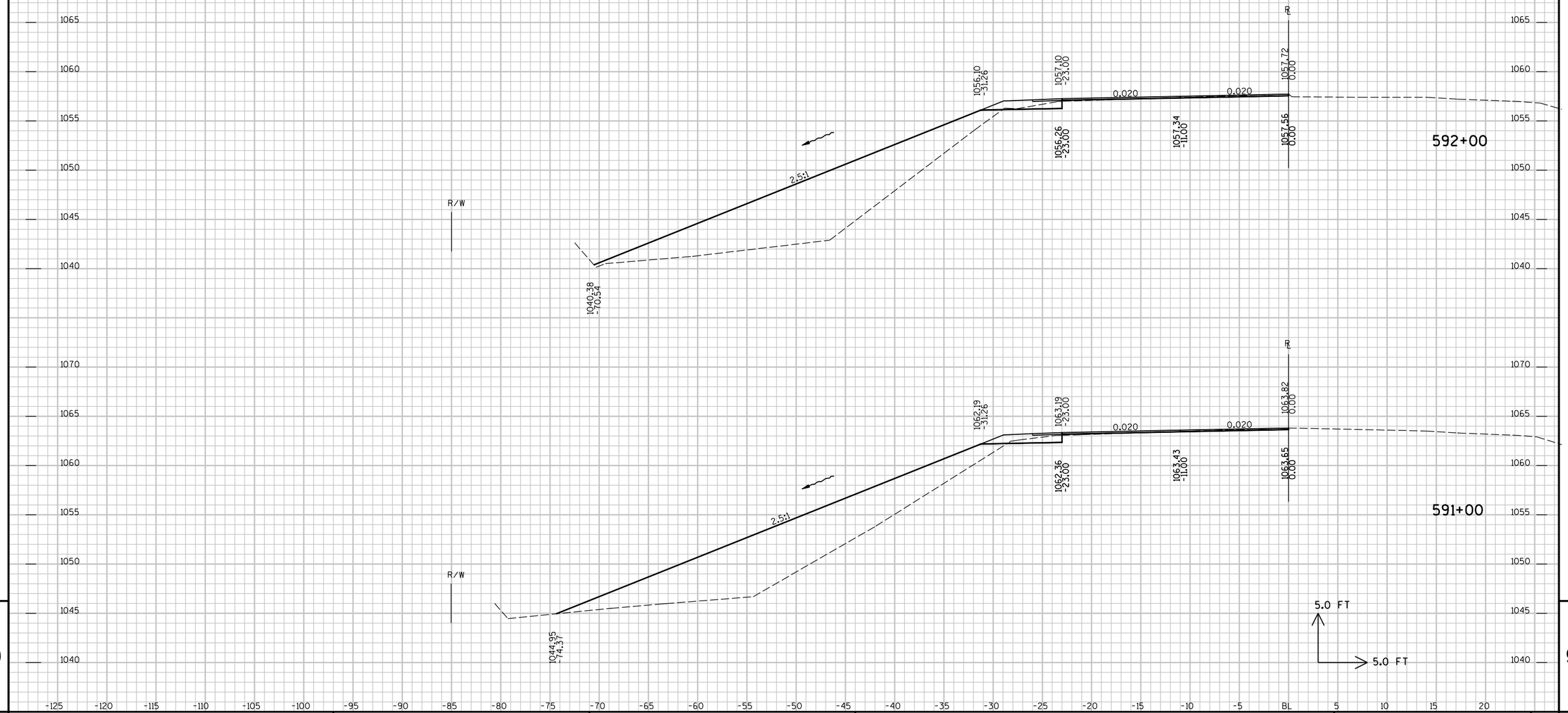
PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 237	E

FILE NAME : P:\UZ\W\W1rnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:50 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



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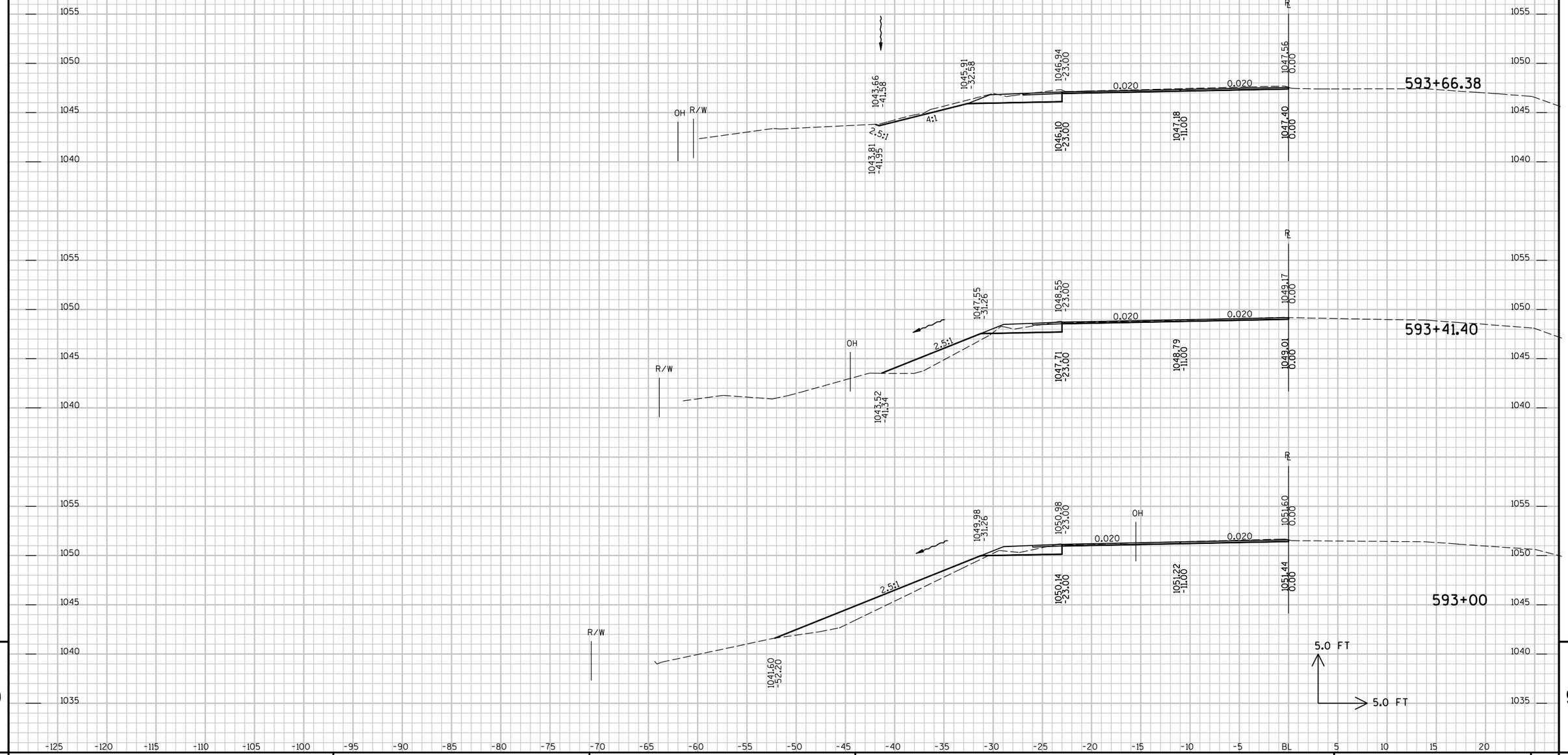
PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 238	E

FILE NAME : P:\UZ\W\Wi1nw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:50 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

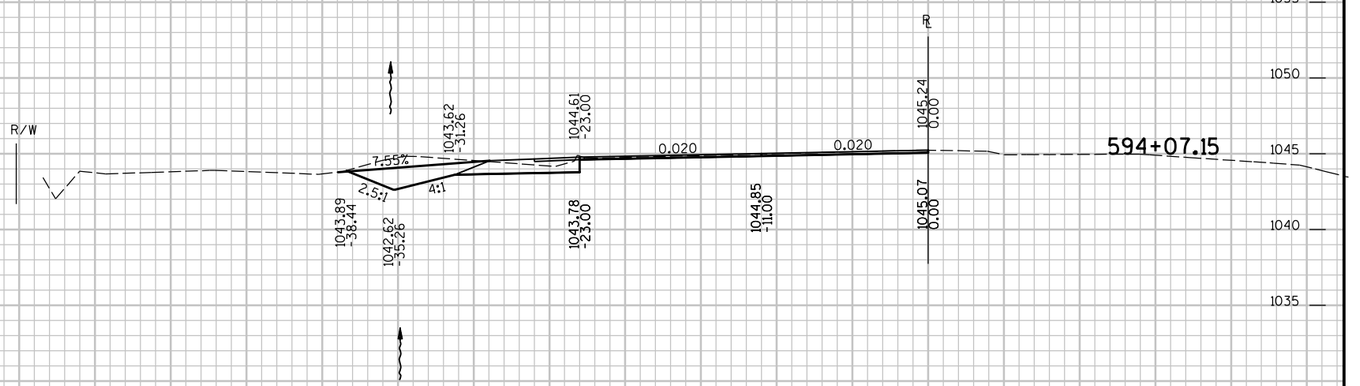
UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

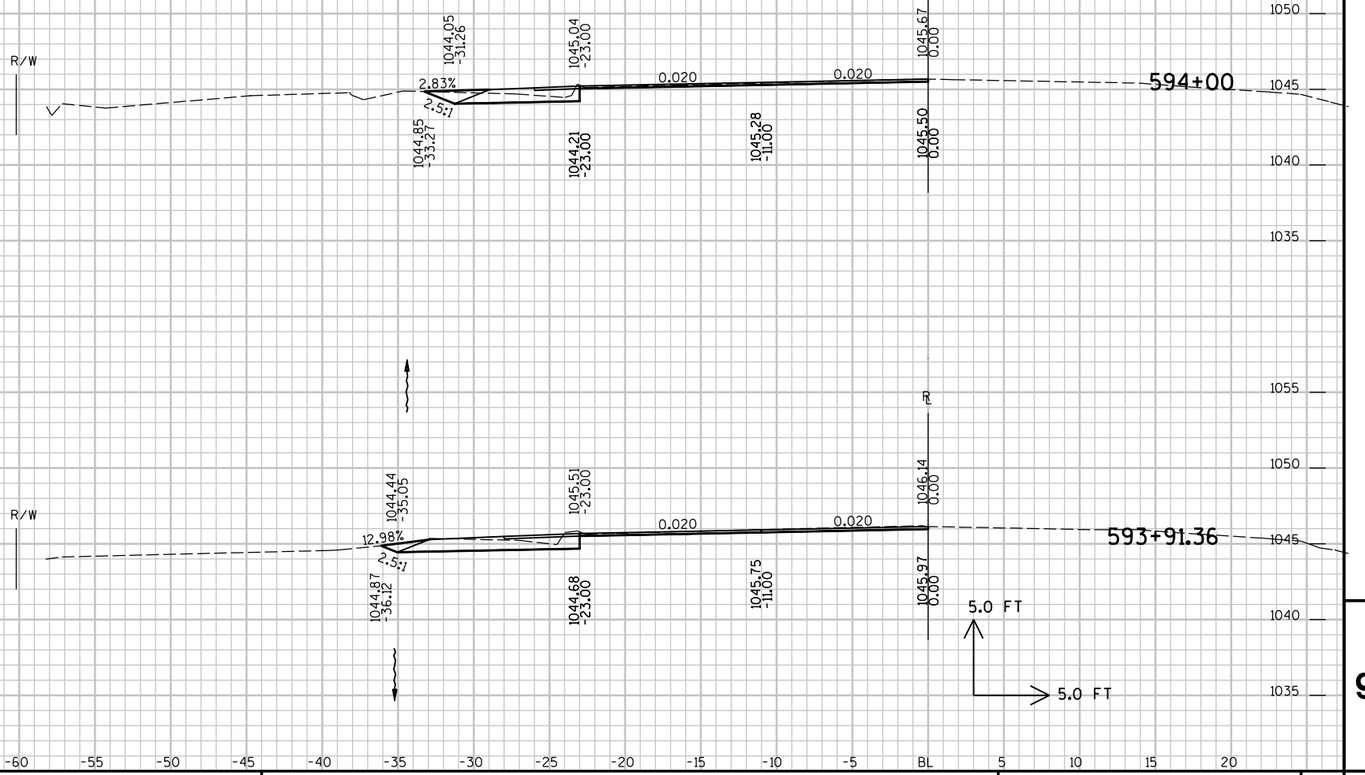


PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 239 E

FILE NAME : P:\UZ\W\Wi1rw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:51 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.





1055 1050 1045 1040 1035

-125 -120 -115 -110 -105 -100 -95 -90 -85 -80 -75 -70 -65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 BL 5 10 15 20

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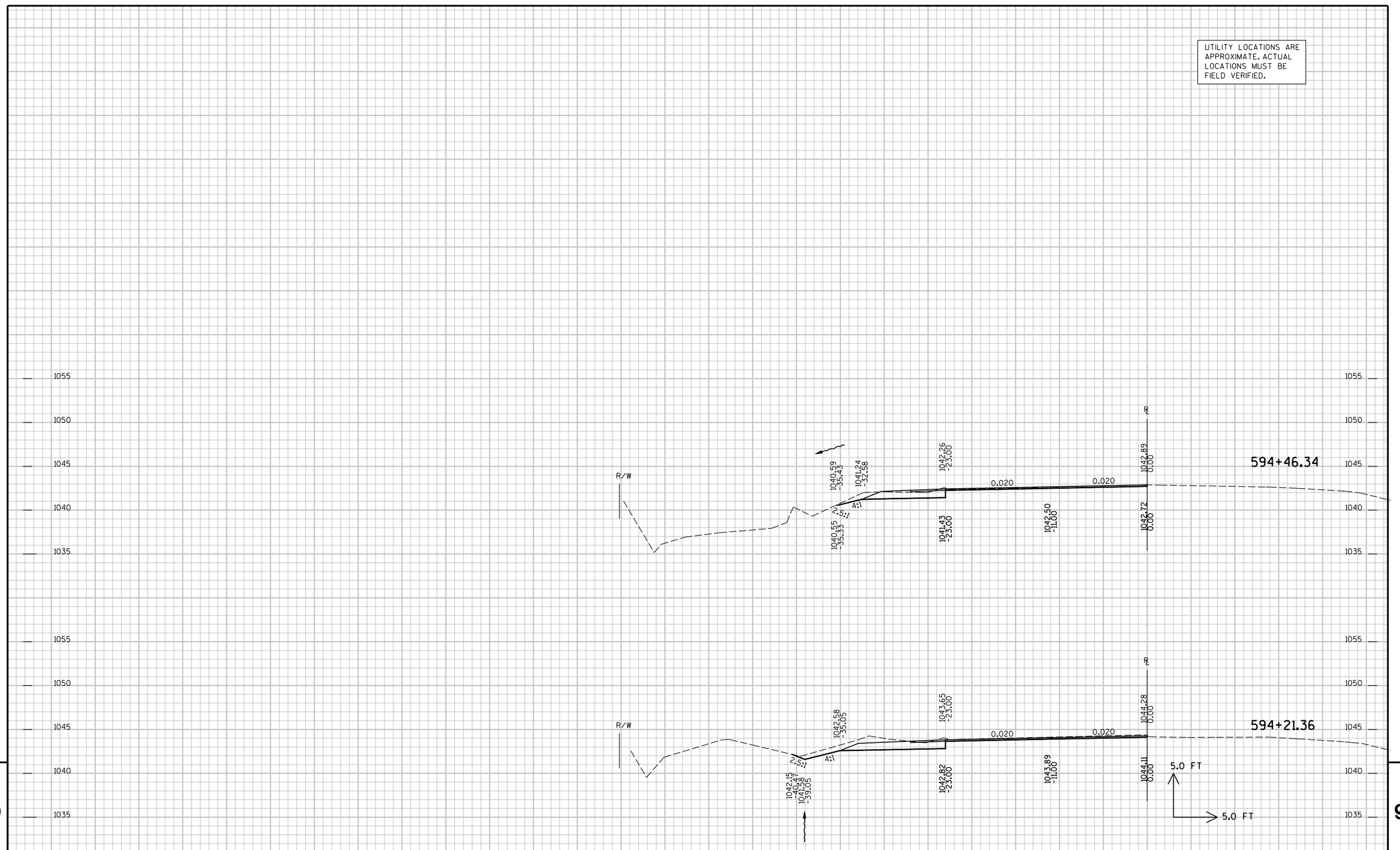
PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 240	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:51 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



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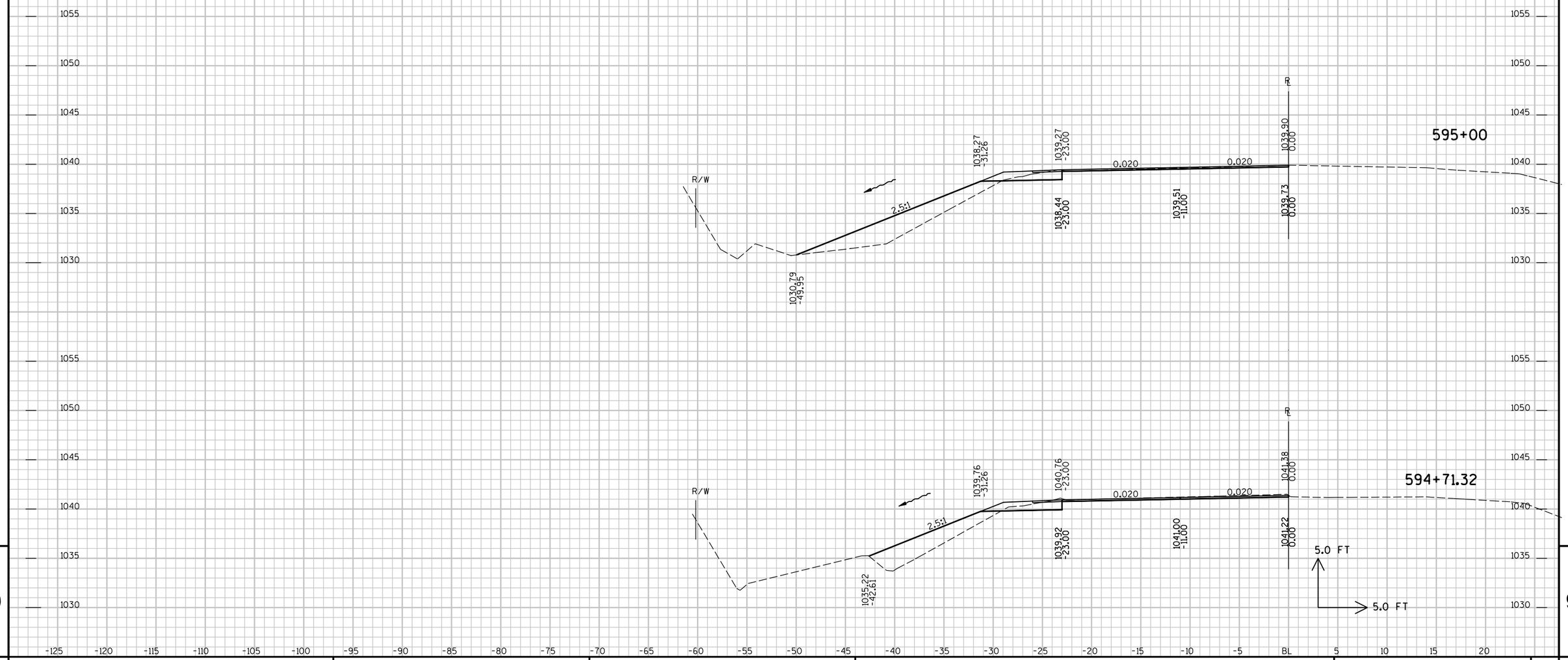
PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 241	E

FILE NAME : P:\UZ\W\Wi1nw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:51 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



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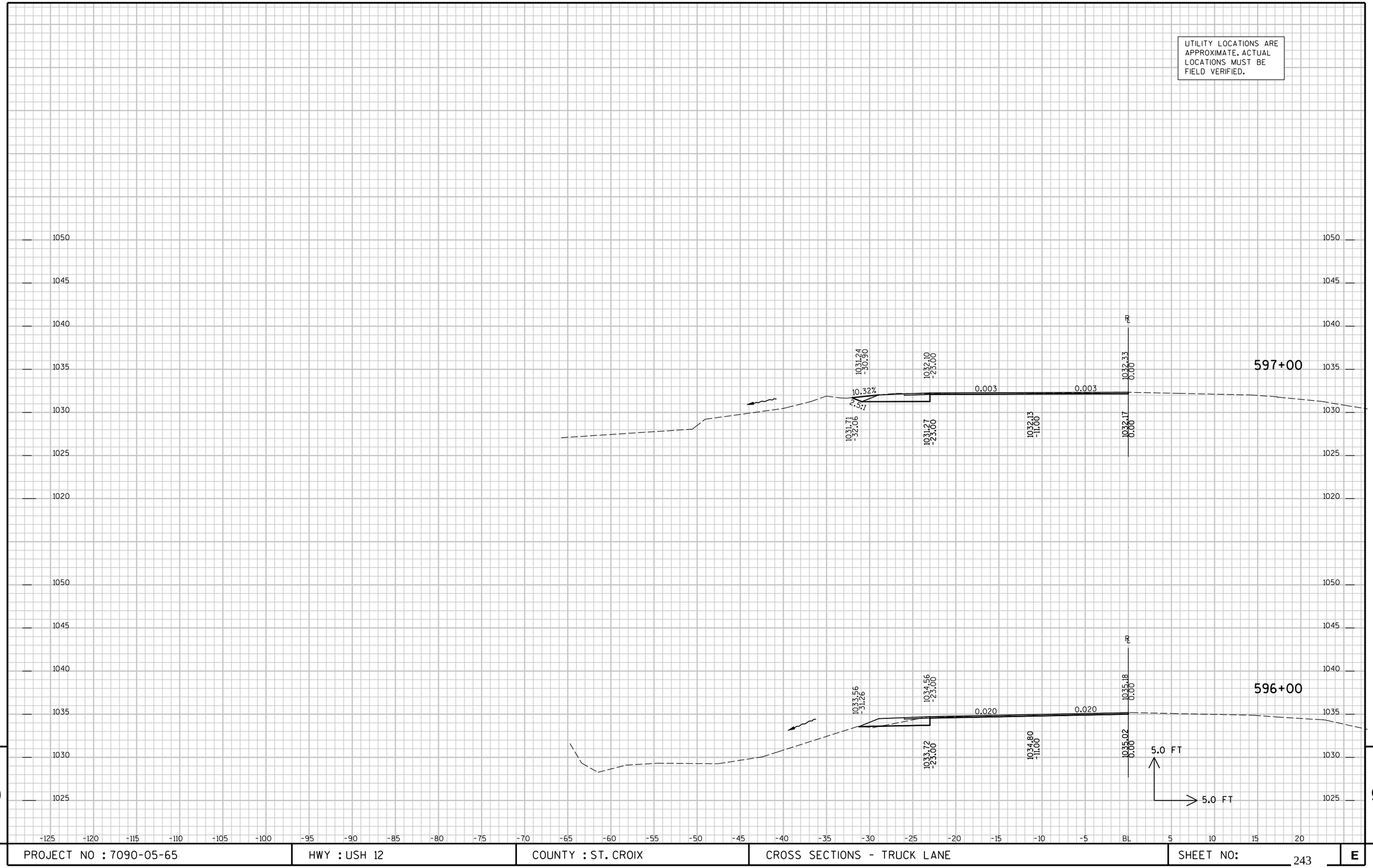
PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 242	E

FILE NAME : P:\UZ\W\Wi1nw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:51 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



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PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 243	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:52 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

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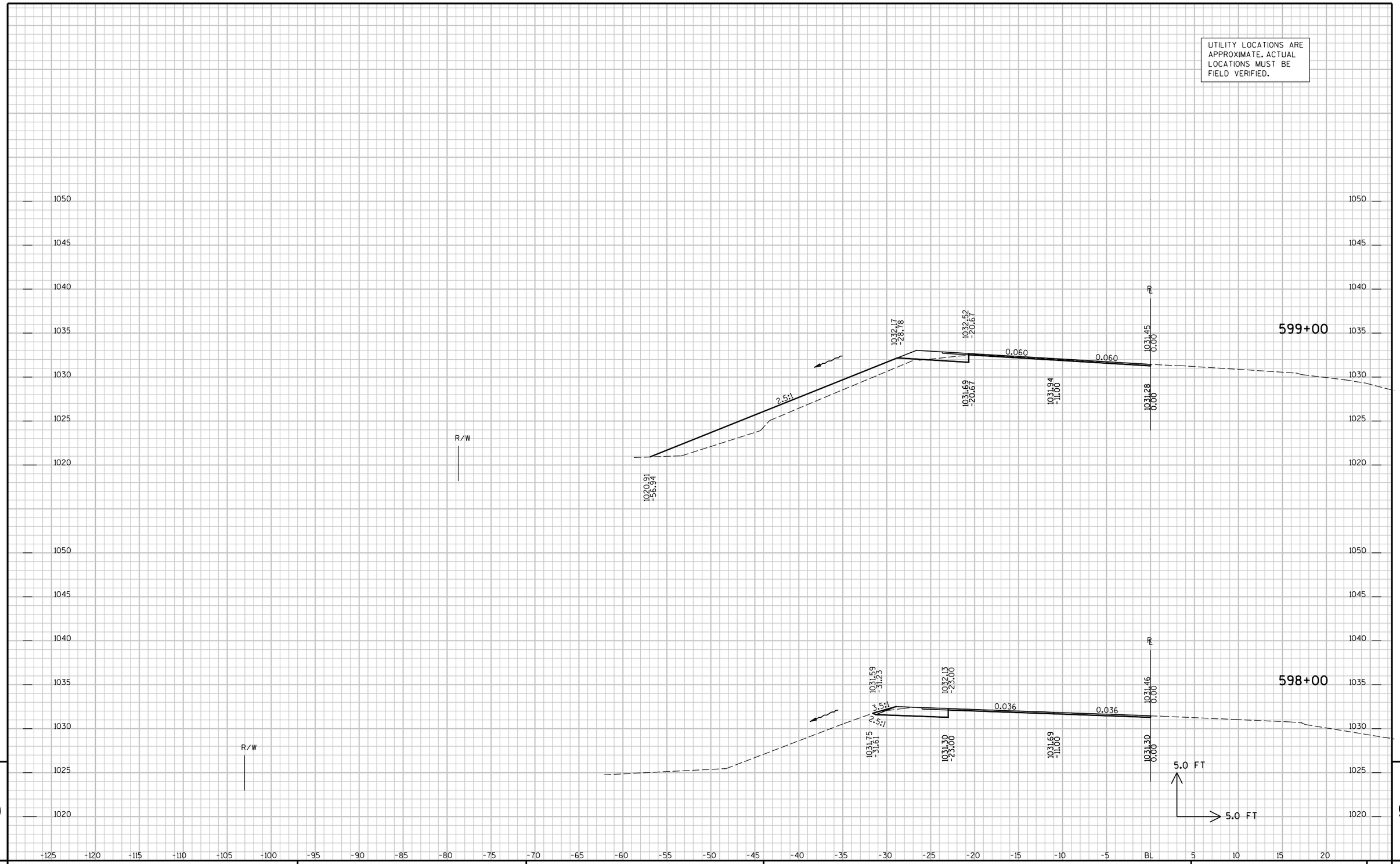

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PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 244	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:52 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

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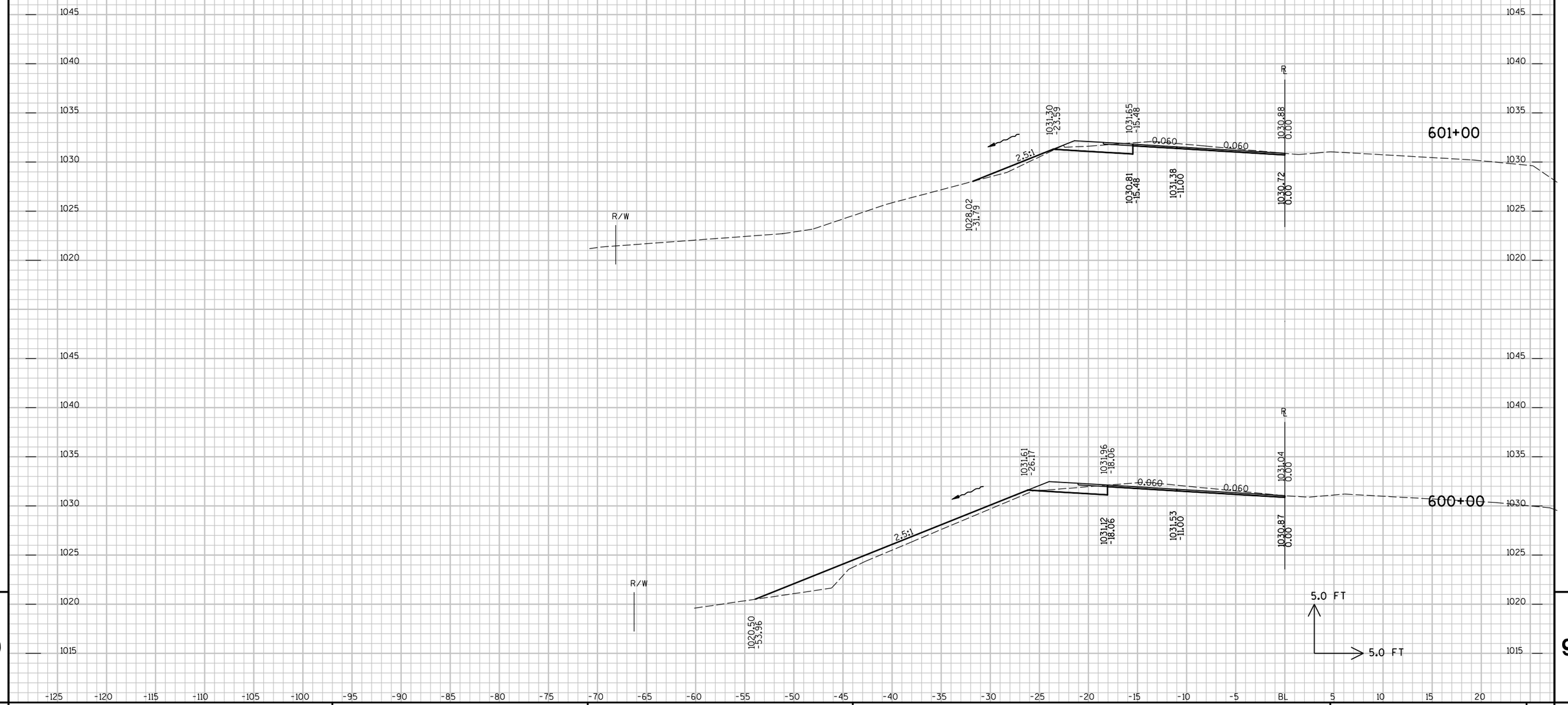

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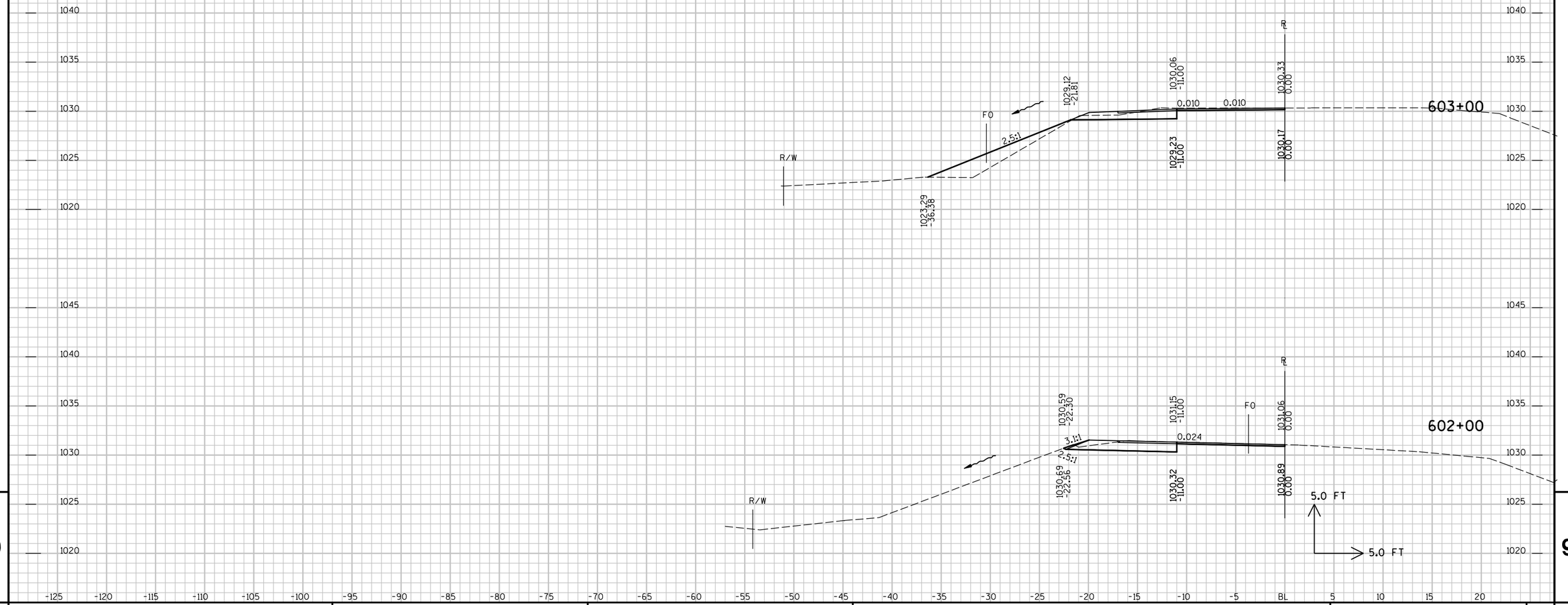
PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 245	E

FILE NAME : P:\UZ\W\Witnw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:52 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.

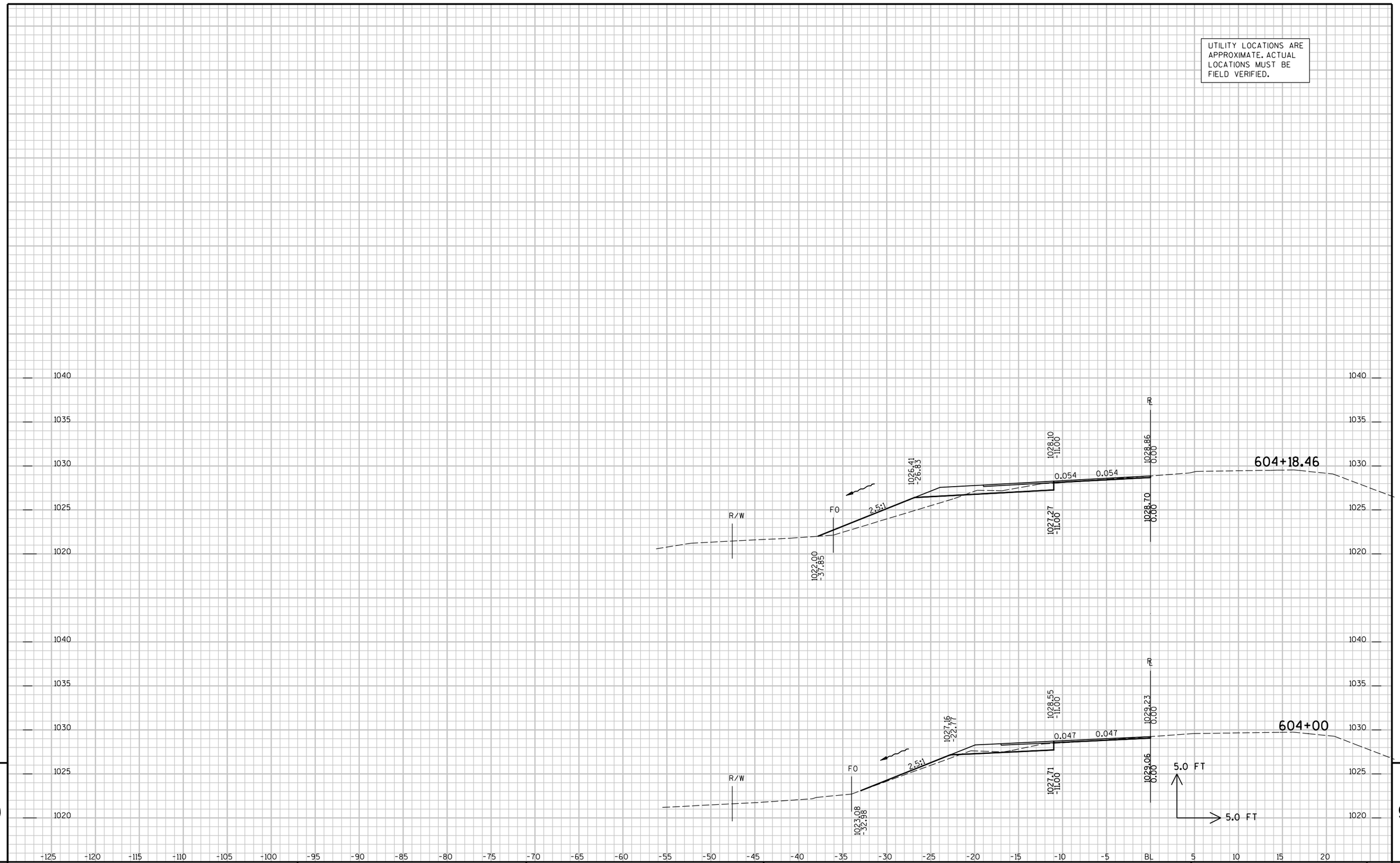


9 9

PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO:	E

FILE NAME : P:\UZ\W\Wi1nw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:52 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



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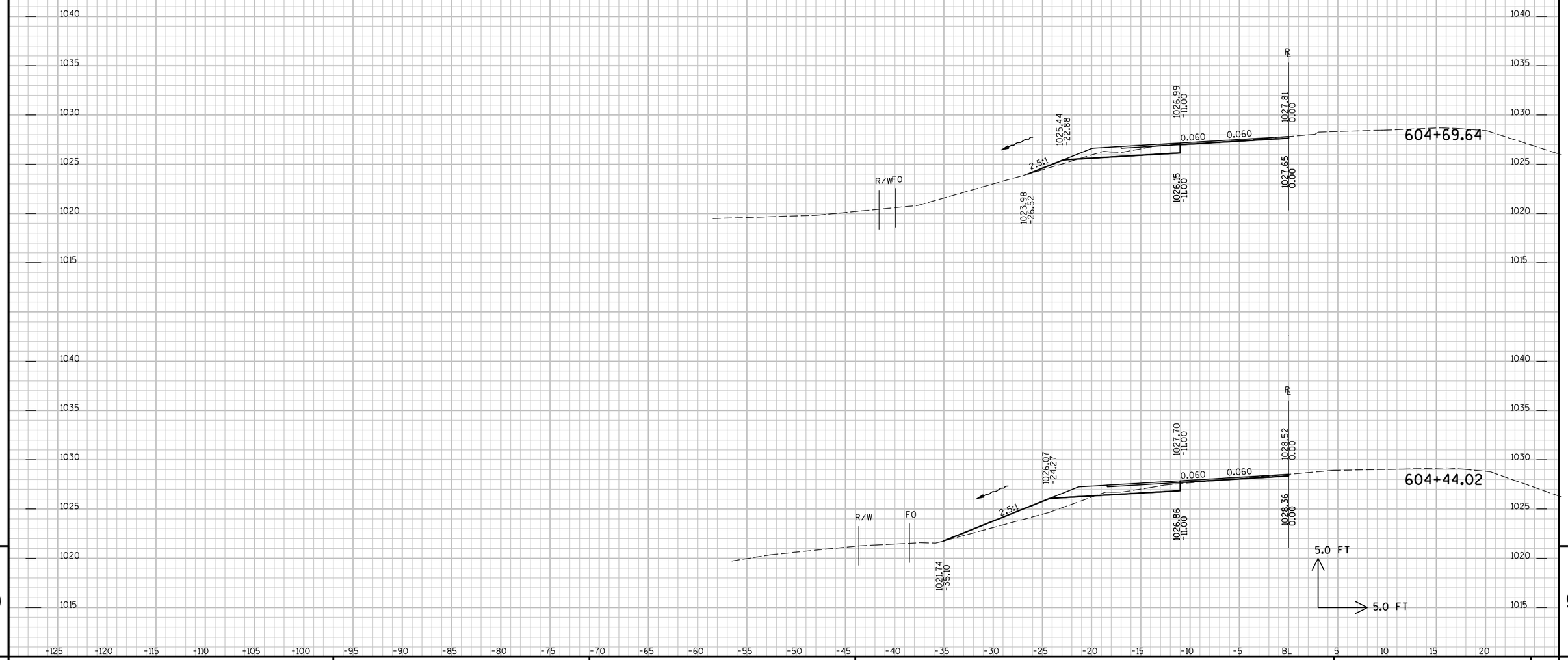
PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 247	E

FILE NAME : P:\UZ\W\Wi1rw\118872\CAD\XBUSH12SC TRUCK.dgn PLOT TIME : 4:08:53 PM PLOT DATE : 10/30/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



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PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 248	E

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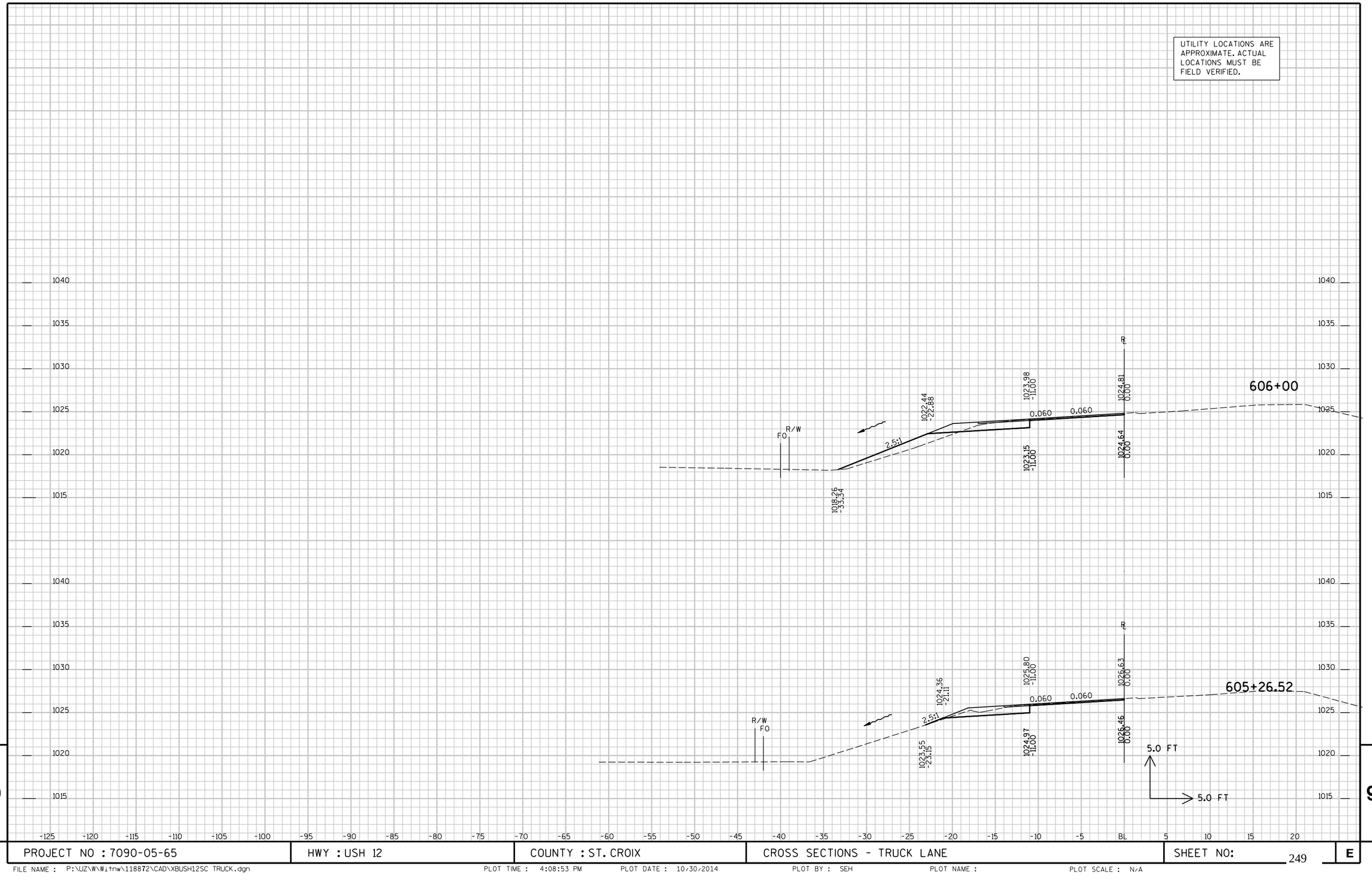
UTILITY LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.



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PROJECT NO : 7090-05-65	HWY : USH 12	COUNTY : ST. CROIX	CROSS SECTIONS - TRUCK LANE	SHEET NO: 249	E

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Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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