MAD

MARCH 2022

PROJECT ID: 4060-05-72

WITH: N/A

COUNTY: DODGE

ORDER OF SHEETS

TOTAL SHEETS = 282

05

DESIGN DESIGNATION 4060-05-02

A.A.D.T.	(2022)	=	4700
A.A.D.T.	(2042)	=	5000
D.H.V.		=	510
D.D.		=	60/40
T.		=	18.9 %
DESIGN SPEED		=	60 MPH
ESALS		=	1,800,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

HORICON - KEWASKUM

STH 67/175/TW INTERSECTION

STH 28
DODGE COUNTY

STATE PROJECT NUMBER
4060-05-72

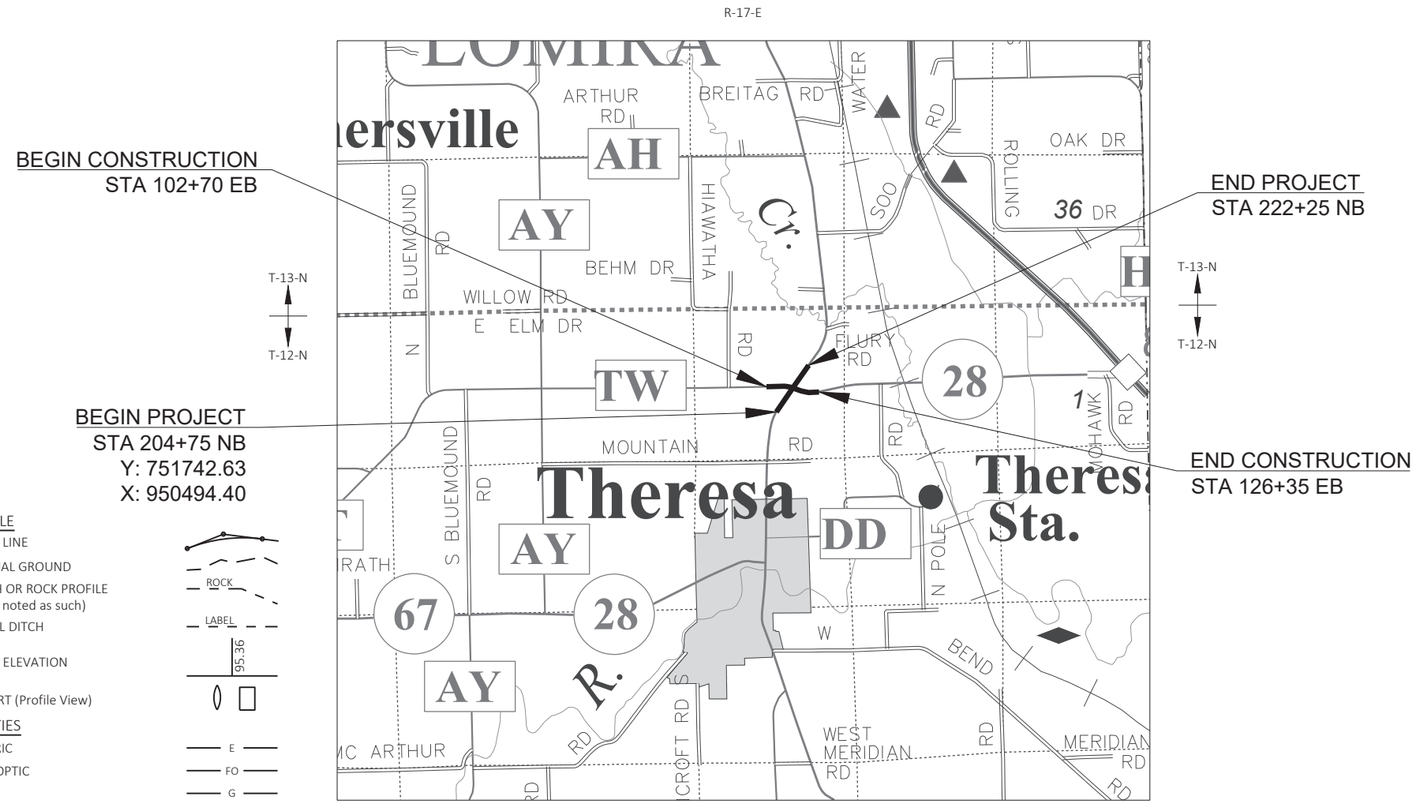
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4060-05-72	WISC 2022228	1

BEGIN CONSTRUCTION
STA 102+70 EB

BEGIN PROJECT
STA 204+75 NB
Y: 751742.63
X: 950494.40

END PROJECT
STA 222+25 NB

END CONSTRUCTION
STA 126+35 EB



LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.571 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), DODGE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	BATTERMAN
Designer	RYAN BAILEY
Project Manager	JEREMY HALL
Regional Examiner	SW REGION
Regional Supervisor	JAMES OETTINGER

APPROVED FOR THE DEPARTMENT

DATE: _____

Digitally signed by Jeremy Hall
DN: C=US, E=jeremy.hall@dot.wi.gov, O=Wisconsin DOT, OU=WisDOT PDS East Unit, CN=Jeremy Hall
Reason: I am approving this document
Date: 2021.10.28 06:48:09-05'00'

E

2

GENERAL NOTES

TREES OR SHRUBS THAT ARE NOT MARKED ON THE PLAN TO BE REMOVED SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER IN THE FIELD.

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

CONTRACTOR TO VERIFY ELEVATIONS OFTHE EXISTING PAVEMENT TO REMAIN IN PLACE, PRIOR TO STAKING.

ALL NEW AND RELAID CONCRETE PIPES SHALL HAVE THE APRON ENDWALL AND FIRST TWO PIPE JOINTS TIED.

HMA PAVEMENT AND WEIGHT CALULATIONS ARE BASED ON 112 LB/SY/IN

SAWCUTS, AS SHOWN ON THE PLANS, ARE SUGGETED LOCATIONS AND MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER TO BETTER SUIT FIELD CONDITIONS.

EXACT SIGN LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL SHEETS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER.

ALL OPENINGS OF HOLES BELOW SUBGRADE RESULTING FROM REMOVALS OR ABANDONMENTS SHALL BE BACKFILLED WITH GRANULAR MATERIAL AND COMPACTED. GRANULAR MATERIAL IS INCIDENTAL TO THE REMOVAL ITEM.

ALL PROPERTY LINES ON PLANS ARE APPROXIMATE.

ASPHALT PAVING LIMITS AT INTERSECTIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER AND SHALL HAVE BUTT JOINTS.

CURB AND GUTTER PLAN GRADES ARE AT THE FLANGE LINE UNLESS OTHERWISE NOTED.

RADIUS DIMENSIONS FOR THE CURB AND GUTTER ARE TO THE FLANGE OF CURB.

EBS IS ESTIMATED AT 5%, EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

UTILITY LINES IN CROSS SECTIONS ARE FOR HORIZONTAL REFERENCE ONLY.

RIGHT OF WAY LINES SHOWN ON THE CROSS SECTIONS ARE APPROXIMATE.

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DIVEWAYS AT ALL TIMES EXCEPT WHEN PAVING OR PIPE LAYING OPERATIONS REQUIRE THE DRIVEWAY TO BE CLOSED. ACCESS TO DRIVEWAY SHALL BE RE-ESTABLISHED IMMEDIATELY AFTER PAVEMENT OR PIPE IN DRIVEAWY AREA IS INSTALLED. ACCESS SHALL BE PROVIDED DURING ALL NON-WORKING HOURS.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTION AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING OR BIKE LANE.

DESIGNER NOTES

DESIGN PLANS, SPECIFICATIONS, AND ESTIMATES FOR LIGHTING PROVIDED BY JT ENGINEERING, INC.

ROUNDABOUT DESIGN PROVIDED BY RYAN BAILEY (WISDOT) WITH REVIEW BY JT ENGINEERING, INC.

UTILITY CONTACTS

NICK FRASE
CHARTER COMMUNICATIONS - COMMUNICATION LINE
1515 WEST WASHINGTON STREET
WEST BEND, WI 53095
(920) 793-2216
nick.frase@charter.com

RUSS RYAN
FRONTIER COMMUNICATIONS OF WI LLC – COMMUNICATION LINE
107 PLEASANTVIEW DR
PLYMOUTH, WI 53073
(920) 583-3275
russell.w.ryan@ftr.com

WE ENERGIES UTILITY COORDINATOR
WE ENERGIES - ELECTRICITY
500 S 116th STREET
WEST ALLIS, WI 53214
(414) 221-2738
we-utility-relocations@we-energies.com

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

PROJECT MANAGER (WISDOT)
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2101 WRIGHT ST.
MADISON, WI 53704
(608) 245-2655
jeremy.hall@dot.wi.gov

PROJECT LEADER (WISDOT)
RYAN BAILEY, P.E.
2101 WRIGHT ST.
MADISON, WI 53704
(608) 246-5625
ryan.bailey@dot.wi.gov

WI DNR LIASON
ERIC HEGGELUND
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
(608) 275-3301
eric.heggelund@wisconsin.gov

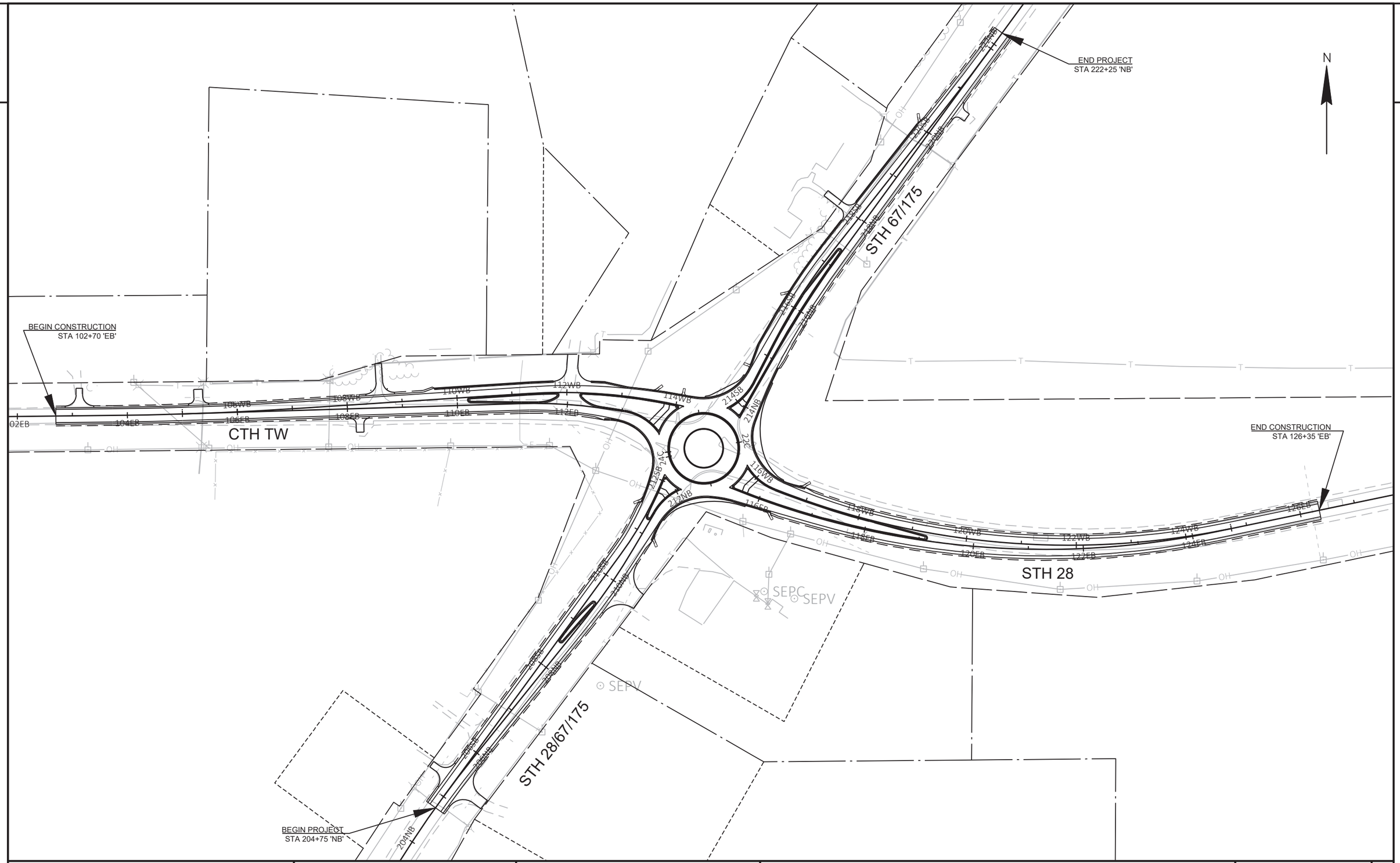
2

STANDARD ABBREVIATIONS

AC.	ACRE	MAX.	MAXIMUM
AGG.	AGGREGATE	MGAL	1000 GALLONS
AH	AHEAD	MIN.	MINIMUM
<	ANGLE	N.C.	NORMAL CROWN OR NO CHANGE
AE, AEW	APRON ENDWALL	N	NORTH
ASPH.	ASPHALTIC	NO.	NUMBER
A.D.T.	AVERAGE DAILY TRAFFIC	P.R.	PROPOSED
B.F.	BACK FACE	P.L.E.	PERMANENT LIMITED EASEMENT
BK.	BACK	P.C.	POINT OF CURVATURE
BEG.	BEGIN	P.I.	POINT OF INTERSECTION
B.M.	BENCH MARK	P.T.	POINT OF TANGENCY
C/L	CENTER LINE	V.P.C.	VERTICAL POINT OF CURVATURE
D	CENTRAL ANGLE OR DELTA	V.P.I.	VERTICAL POINT OF INTERSECTION
C.M.C.P.	CORRUGATED METAL CULVERT PIPE	V.P.T.	VERTICAL POINT OF TANGENCY
C.M.P.	CORRUGATED METAL PIPE	PCC	PORTLAND CEMENT CONCRETE
CO.	COUNTY	P.E.	PRIVATE ENTRANCE
CTH	COUNTY TRUNK HIGHWAY	P.L.	PROPERTY LINE
CR.	CREEK	R	RADIUS OR RANGE
C.A.B.C.	CRUSHED AGGREGATE BASE COURSE	R/L	REFERENCE LINE
C.Y.	CUBIC YARD	R.C.C.P.	REINFORCED CONCRETE CULVERT PIPE
C.P.	CULVERT PIPE	RT	RIGHT
C. & G.	CURB AND GUTTER	REQ'D	REQUIRED
D	DEGREE OF CURVE	R.H.F.	RIGHT HAND FORWARD
D.H.V.	DESIGN HOUR VOLUME	R/W	RIGHT OF WAY
DIA.	DIAMETER	R.	RIVER
DISCH.	DISCHARGE	RD.	ROAD
EA	EACH	SHLD.	SHOULDER(S)
E	EAST	SHR.	SHRINKAGE
ELEC.	ELECTRIC(AL), ELEC. CABLE	S	SOUTH
EL., ELEV.	ELEVATION	S.F.	SQUARE FOOT (FEET)
EXC.	EXCAVATION	SDD	STANDARD DETAIL DRAWING(S)
F.F.	FACE TO FACE	STH	STATE TRUNK HIGHWAY
FERT.	FERTILIZER	STA.	STATION
F.E.	FIELD ENTRANCE	S.E.	SUPERELEVATION
F/L, F.L.	FLOW LINE	S/L	SURVEY LINE
CWT.	HUNDRED WEIGHT	T	TANGENT
INL	INLET	TEL.	TELEPHONE
INTER.	INTERSECTION	TEMP.	TEMPORARY
JT.	JOINT	T.L.E.	TEMPORARY LIMITED EASEMENT
LT	LEFT	T.O.C.	TOP OF CURB
L.H.F.	LEFT HAND FORWARD	T.	(TRUCKS) PERCENT OF
L.	LENGTH OF CURVE	TYP.	TYPICAL
L.F.	LINEAR FOOT(FEET)	UNCL.	UNCLASSIFIED
LC.	LONG CHORD	U.G.	UNDERGROUND (CABLE)
LS	LUMP SUM	V.C.	VERTICAL CURVE
M.P.	MARKER POST	W	WEST

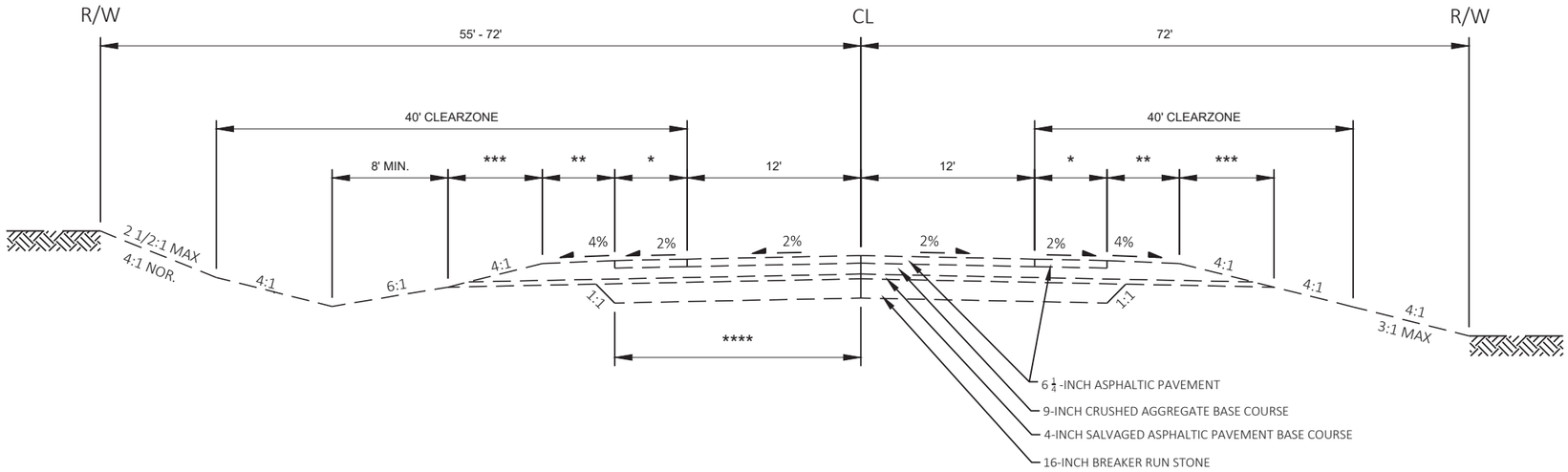
SECTION 2 ORDER OF SHEETS

2



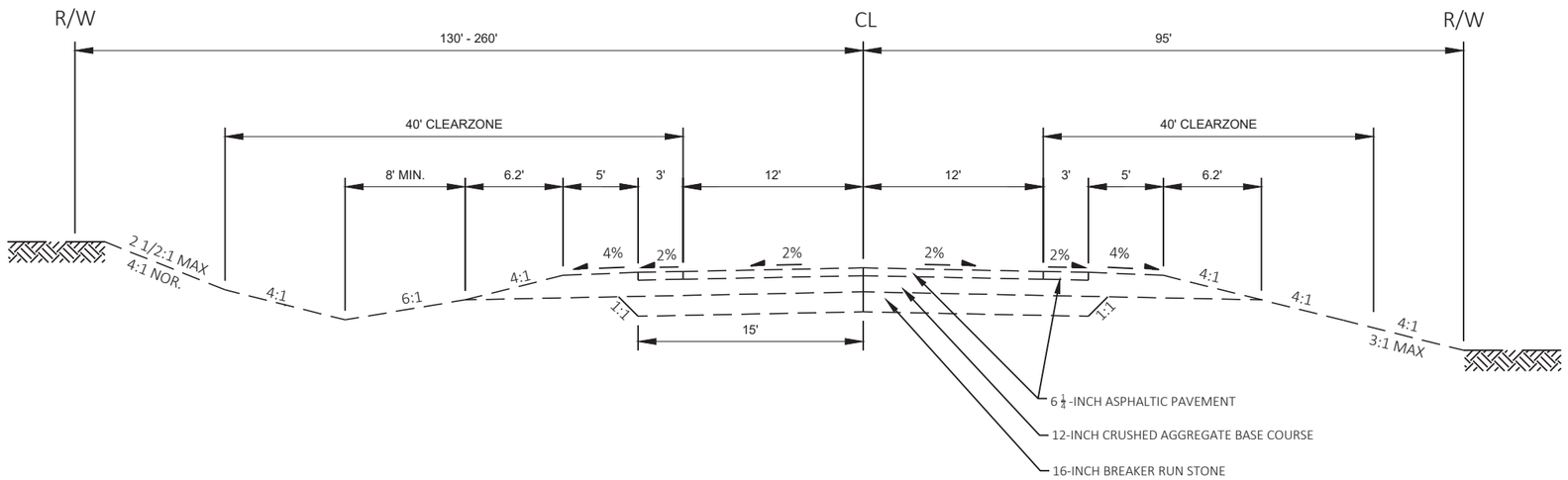
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PROJECT OVERVIEW	SHEET 4	E

LOCATION	*	**	***	****
STA 205+00 'NB' TO 212+09 'NB'	5'	5'	6.54'	17'
STA 213+76 'NB' TO 222+25 'NB'	3'	7'	6.37'	15'



TYPICAL EXISTING SECTION - STH 28/67/175

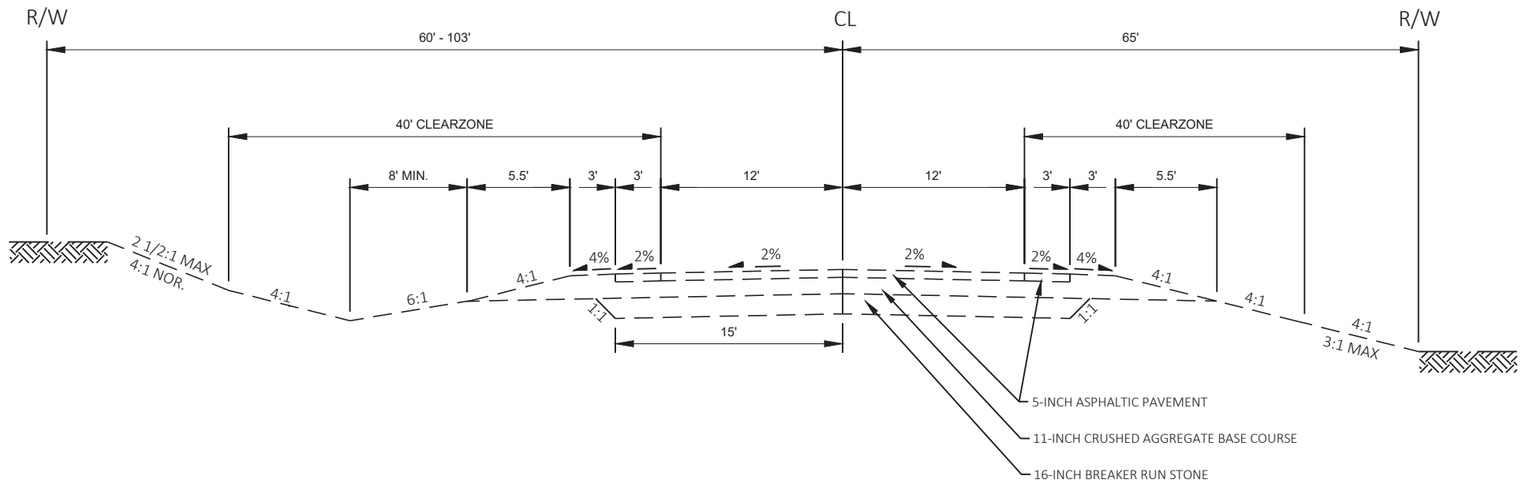
STA. 204+75 'NB' - 222+25 'NB'



TYPICAL EXISTING SECTION - STH 28

STA. 115+45 'EB' - 126+35 'EB'

2



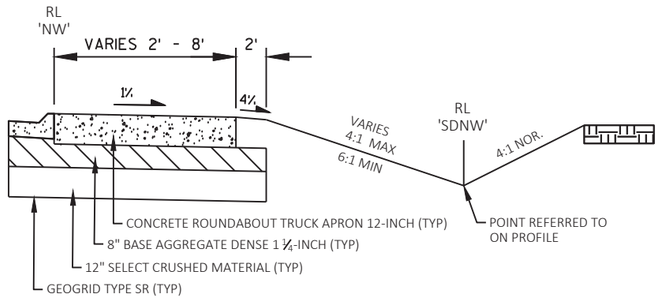
TYPICAL EXISTING SECTION - CTH TW

STA. 102+70 'EB' - 113+78 'EB'

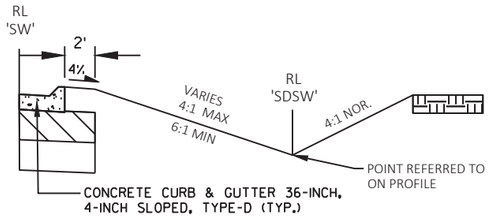
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	EXISTING TYPICAL SECTIONS	SHEET 6	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\40600502\SHEETSPLAN\020301 - TYPICAL SECTIONS\020301_TS_EX.DWG
LAYOUT NAME - 020302_ts_ex

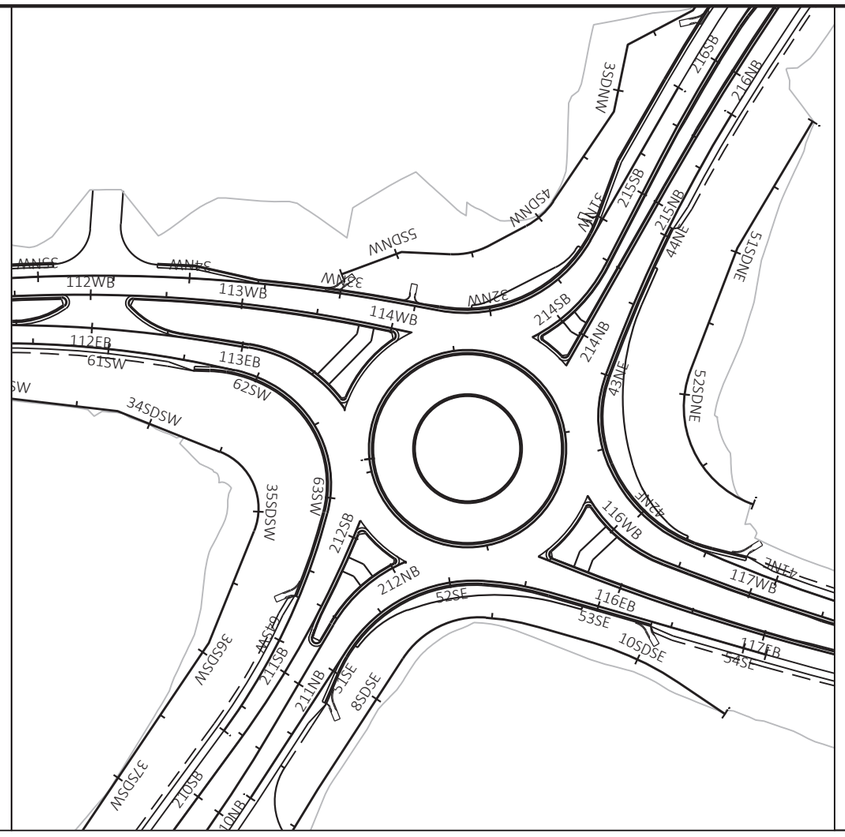
PLOT DATE : 11/19/2020 9:05 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT

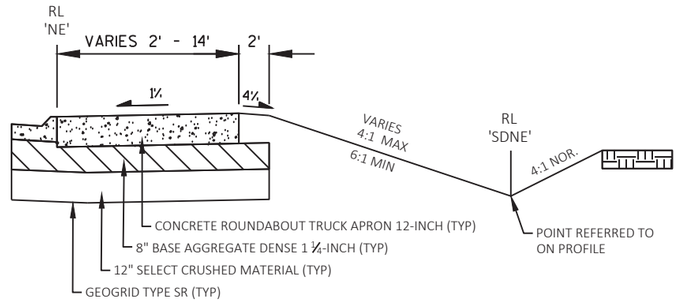


FINISHED TYPICAL SECTION - APRON RADII
STA. 30+00 'NW' - STA. 35+37 'NW'

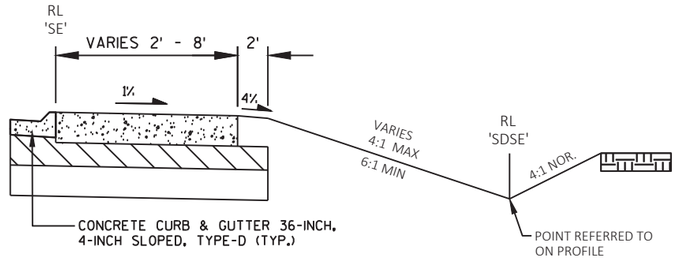


FINISHED TYPICAL SECTION - APRON RADII
STA. 60+00 'SW' - STA. 64+70 'SW'





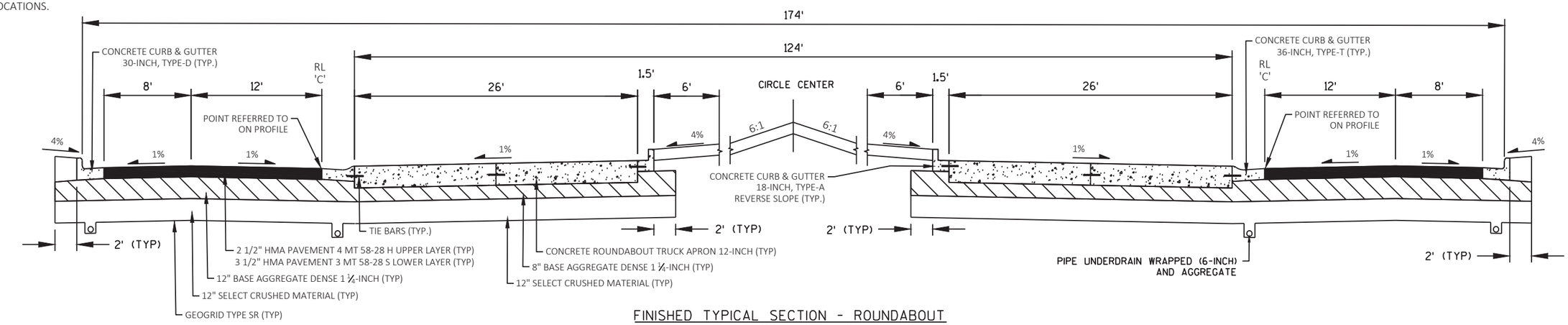
FINISHED TYPICAL SECTION - APRON RADII
STA. 40+00 'NE' - STA. 44+91 'NE'



FINISHED TYPICAL SECTION - APRON RADII
STA. 50+00 'SE' - STA. 54+15 'SE'

NOTES:

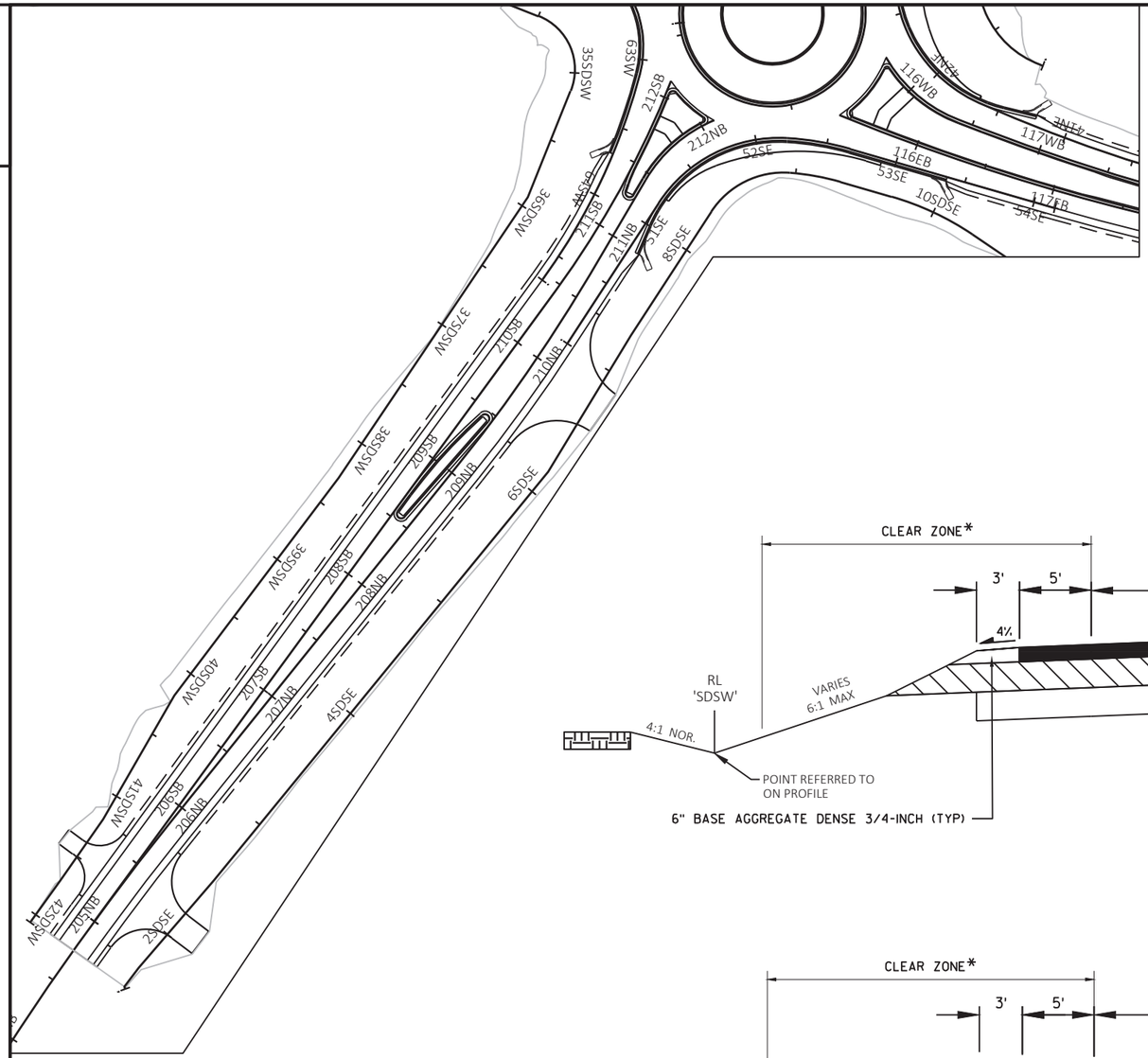
1. WHEN DISTANCE 'X' IS LESS THAN 10 FEET, EXTEND BASE AGGREGATE DENSE 1 ¼ -INCH AND SELECT CRUSH MATERIAL THROUGH MEDIAN.
2. FOR FINISHED EARTHEN SLOPES, SEE MISCELLANEOUS QUANTITIES AND EROSION CONTROL PLANS FOR SALVAGE TOPSOIL, SEEDING, FERTILIZER, AND EROSION MAT LOCATIONS.



FINISHED TYPICAL SECTION - ROUNDABOUT
STA. 20+00 'C' - STA. 24+08 'C'

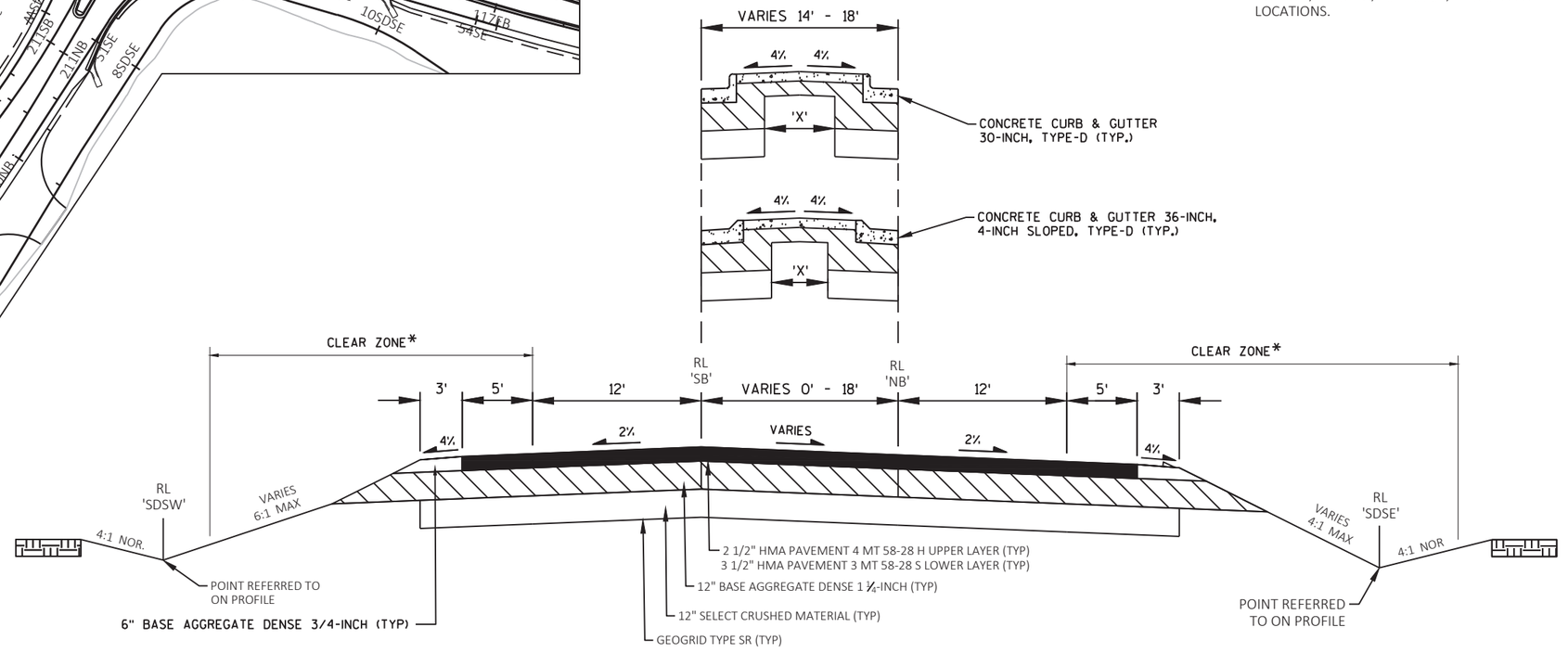
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	FINISHED TYPICAL SECTIONS	SHEET 7	E

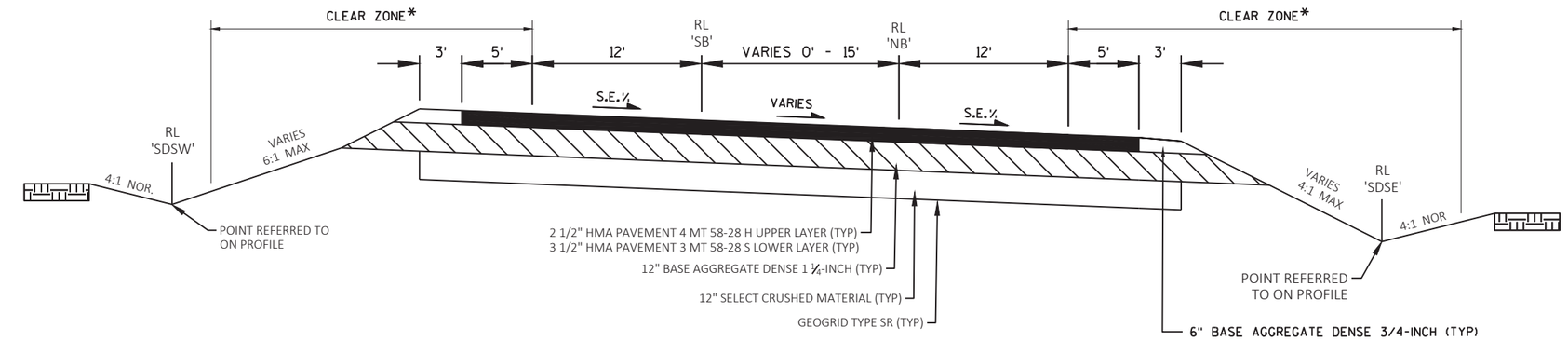
117+50 TO 126+35 'EB':32'



NOTES:

1. WHEN DISTANCE 'X' IS LESS THAN 10 FEET, EXTEND BASE AGGREGATE DENSE 1 ¼ -INCH AND SELECT CRUSH MATERIAL THROUGH MEDIAN.
2. FOR FINISHED EARTHEN SLOPES, SEE MISCELLANEOUS QUANTITIES AND EROSION CONTROL PLANS FOR SALVAGE TOPSOIL, SEEDING, FERTILIZER, AND EROSION MAT LOCATIONS.

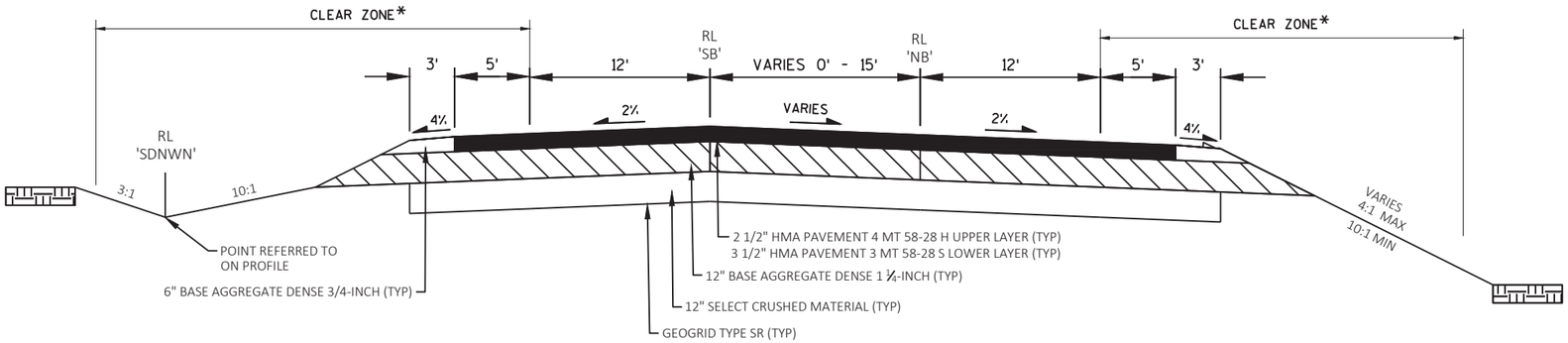


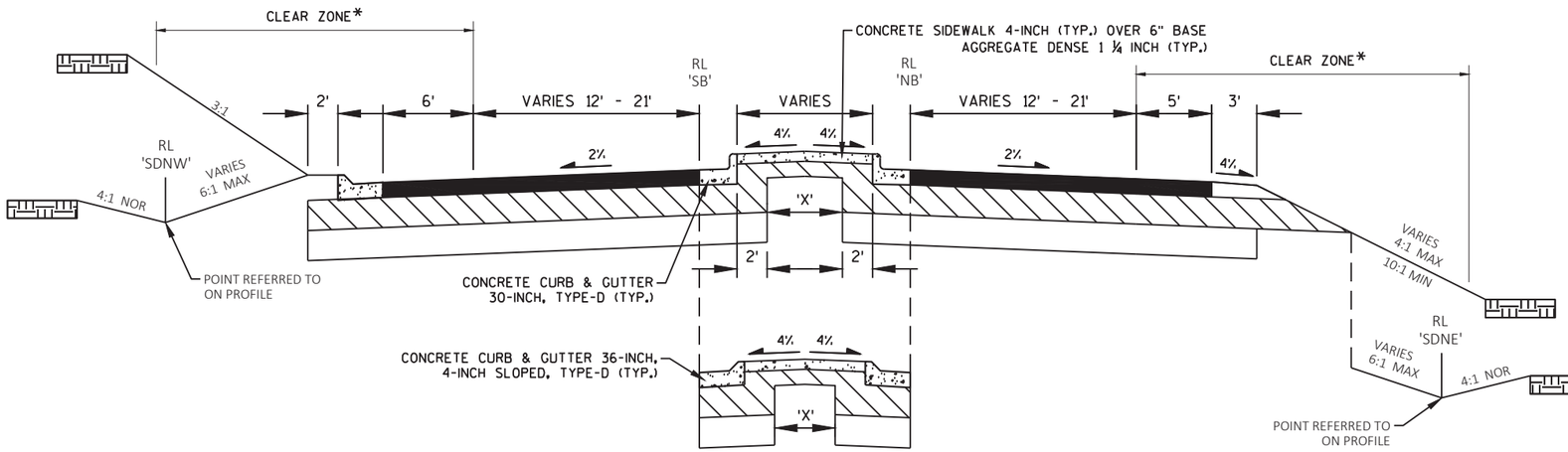


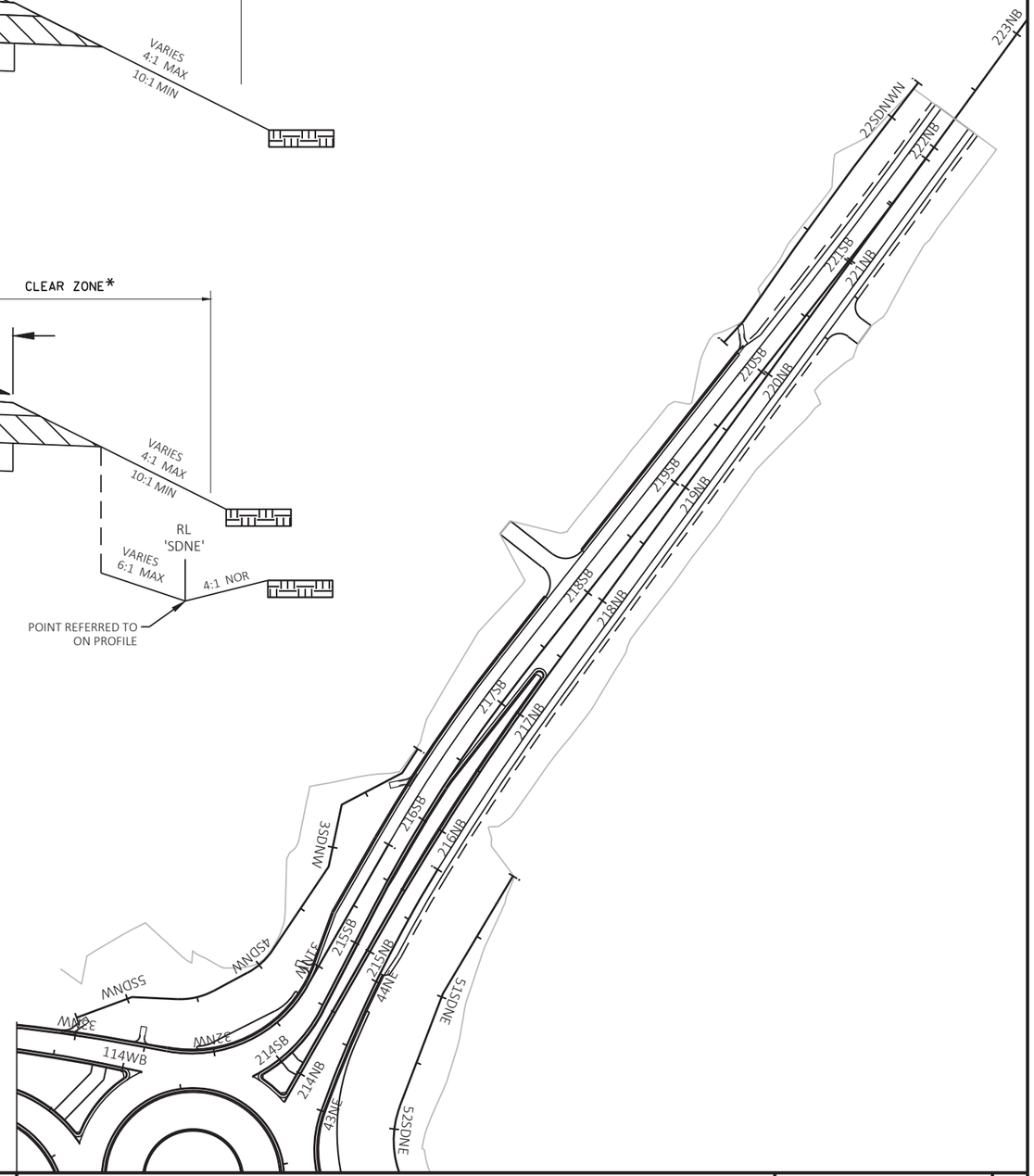
FINISHED TYPICAL SECTION - STH 28, STH 67 & STH 175
STA. 204+75 'NB' - STA. 222+25 'NB'

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	FINISHED TYPICAL SECTIONS	SHEET 8	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\40600502\SHEETSPLAN\020301 - TYPICAL SECTIONS\020302_TS_PR - OV.DWG
LAYOUT NAME - 020305_ts_PR (OV NBS)
PLOT DATE : 8/6/2021 7:25 PM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT







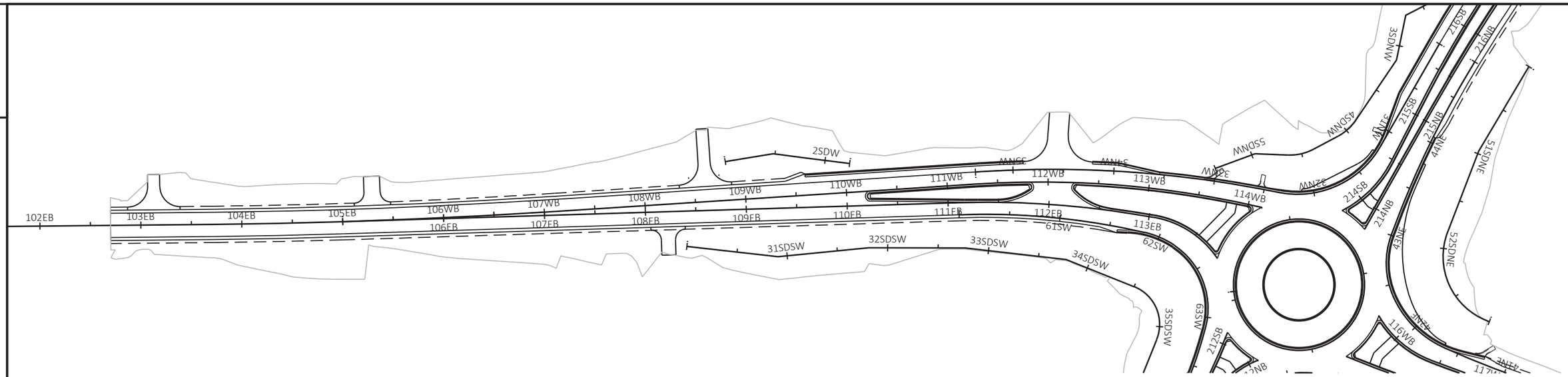
FINISHED TYPICAL SECTION - STH 28, STH 67 & STH 175
STA. 204+75 'NB' - STA. 222+25 'NB'

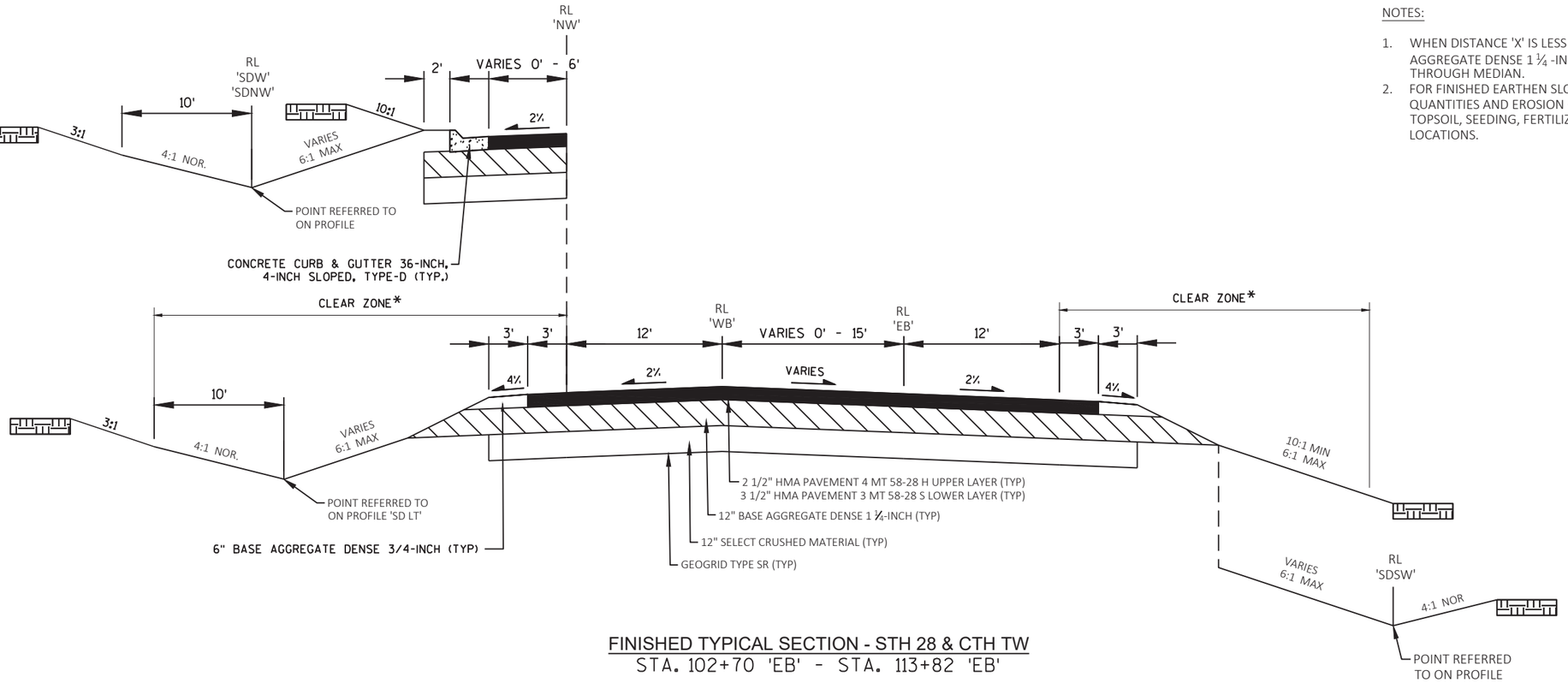
NOTES:

1. WHEN DISTANCE 'X' IS LESS THAN 10 FEET, EXTEND BASE AGGREGATE DENSE 1 ¼ -INCH AND SELECT CRUSH MATERIAL THROUGH MEDIAN.
2. FOR FINISHED EARTHEN SLOPES, SEE MISCELLANEOUS QUANTITIES AND EROSION CONTROL PLANS FOR SALVAGE TOPSOIL, SEEDING, FERTILIZER, AND EROSION MAT LOCATIONS.

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	FINISHED TYPICAL SECTIONS	SHEET 9	E

2



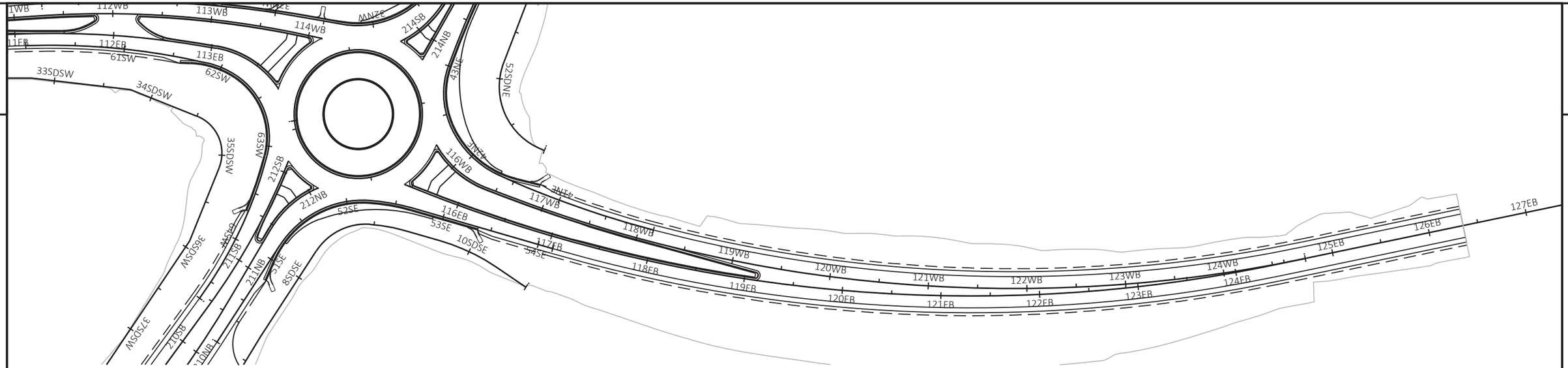


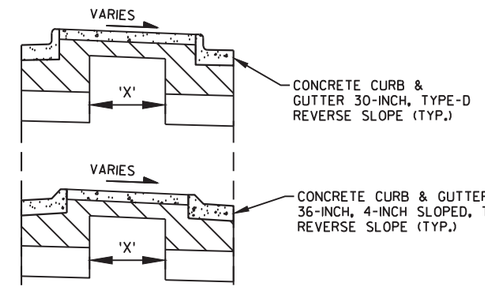
FINISHED TYPICAL SECTION - STH 28 & CTH TW
STA. 102+70 'EB' - STA. 113+82 'EB'

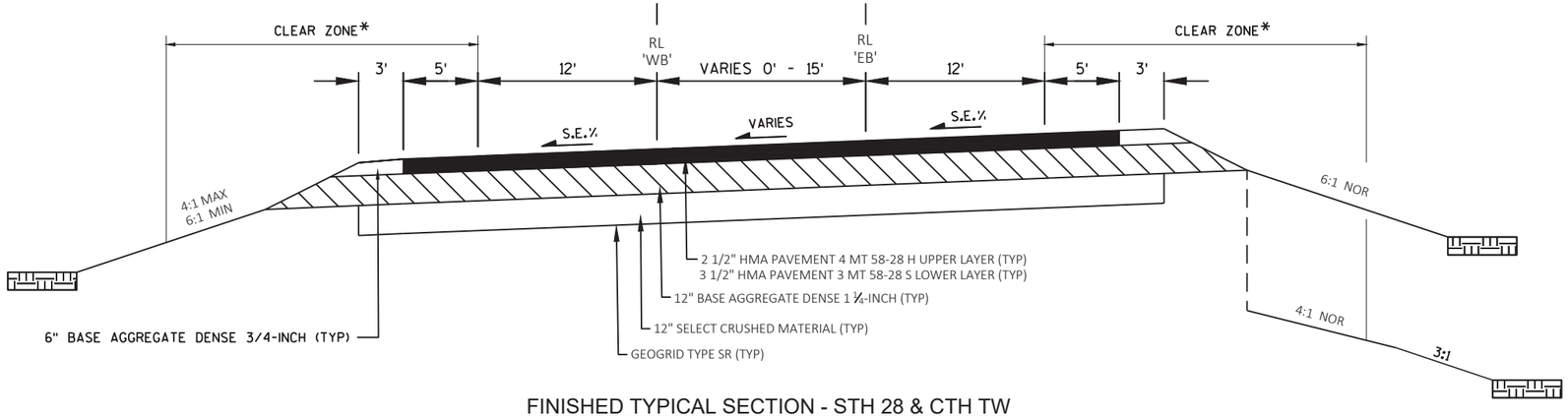
NOTES:

1. WHEN DISTANCE 'X' IS LESS THAN 10 FEET, EXTEND BASE AGGREGATE DENSE 1 ¼ -INCH AND SELECT CRUSH MATERIAL THROUGH MEDIAN.
2. FOR FINISHED EARTHEN SLOPES, SEE MISCELLANEOUS QUANTITIES AND EROSION CONTROL PLANS FOR SALVAGE TOPSOIL, SEEDING, FERTILIZER, AND EROSION MAT LOCATIONS.

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	FINISHED TYPICAL SECTIONS	SHEET 10	E







NOTES:

1. WHEN DISTANCE 'X' IS LESS THAN 10 FEET, EXTEND BASE AGGREGATE DENSE 1 ¼ -INCH AND SELECT CRUSH MATERIAL THROUGH MEDIAN.
2. FOR FINISHED EARTHEN SLOPES, SEE MISCELLANEOUS QUANTITIES AND EROSION CONTROL PLANS FOR SALVAGE TOPSOIL, SEEDING, FERTILIZER, AND EROSION MAT LOCATIONS.

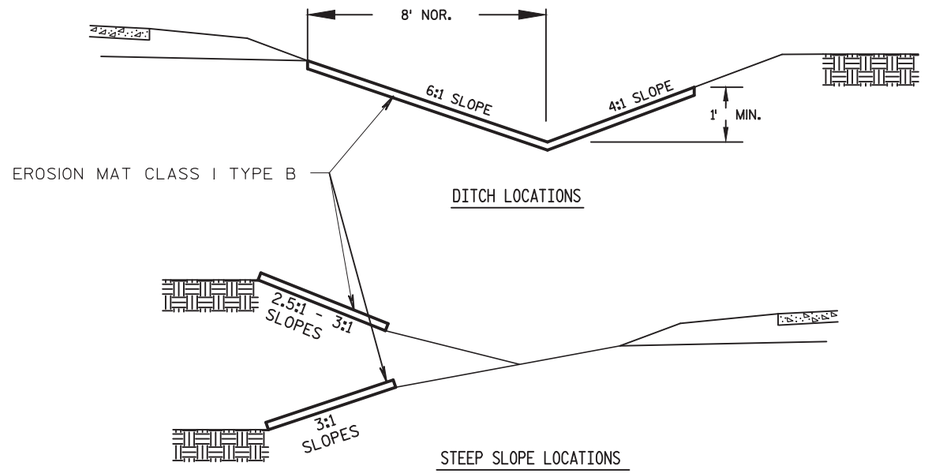
FINISHED TYPICAL SECTION - STH 28 & CTH TW
STA. 114+42 'EB' - STA. 126+35 'EB'

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	FINISHED TYPICAL SECTIONS	SHEET 11	E

RUNOFF COEFFICIENT TABLE

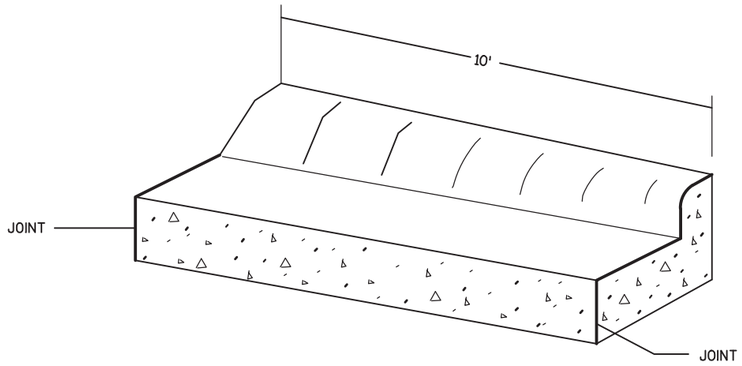
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33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

TOTAL PROJECT AREA =32.0 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES =28.0 ACRES



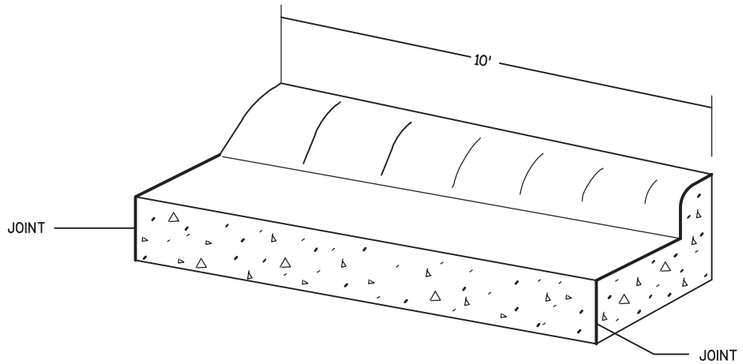
DETAIL FOR EROSION MAT PLACEMENT

LOCATIONS SHOWN ON EROSION CONTROL PLAN



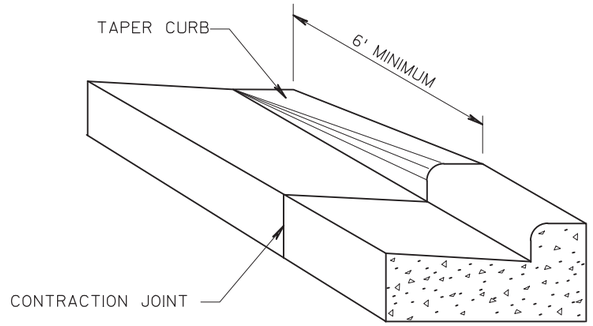
DETAIL FOR TYPE D TRANSITION

CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D TO
CONCRETE CURB & GUTTER 30-INCH TYPE D (TO BE MEASURED AND PAID
FOR AS CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D)

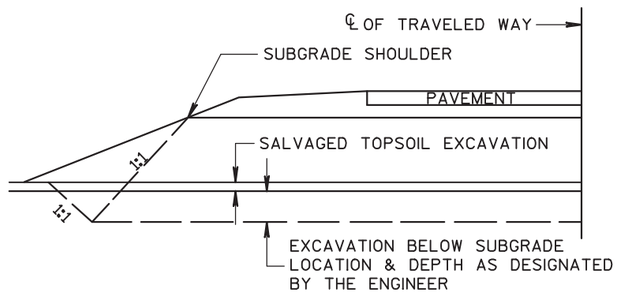


DETAIL FOR TYPE T TRANSITION

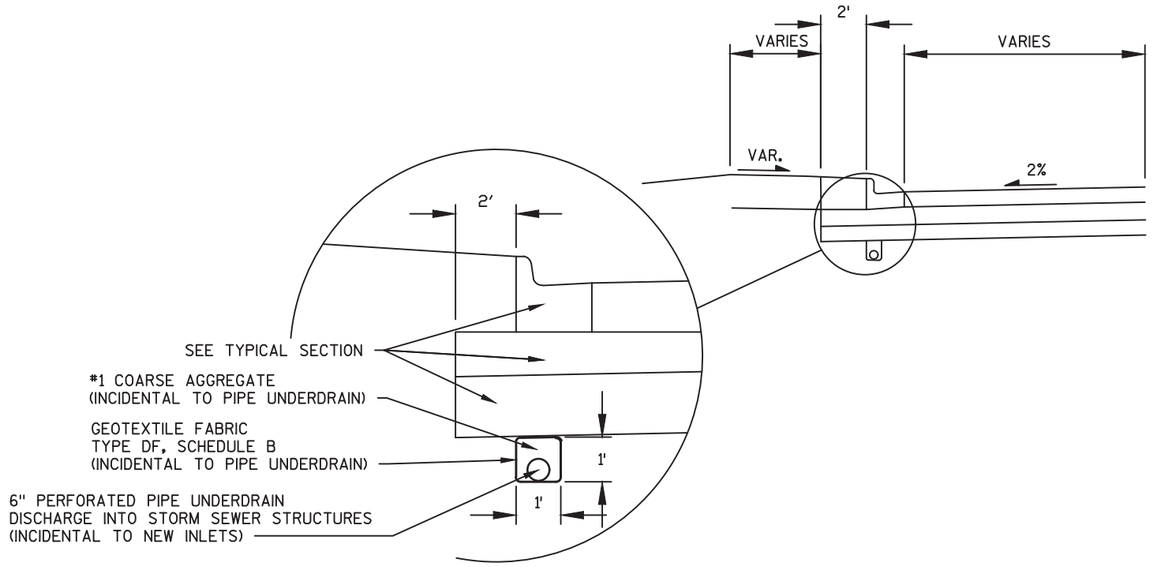
CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T TO
CONCRETE CURB & GUTTER 30-INCH TYPE D (TO BE MEASURED AND PAID
FOR AS CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T)



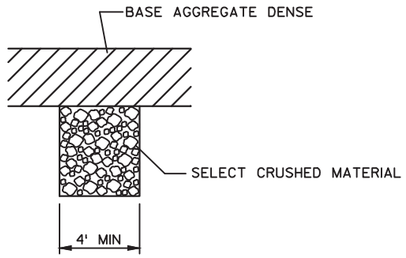
DETAIL FOR CURB & GUTTER TERMINI



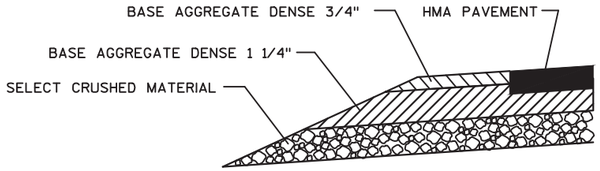
DETAIL FOR RURAL EXCAVATION BELOW SUBGRADE



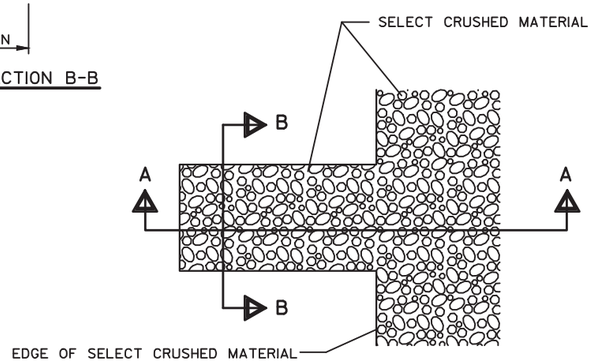
DETAIL FOR 6" PERFORATED PIPE UNDERDRAIN



SECTION B-B



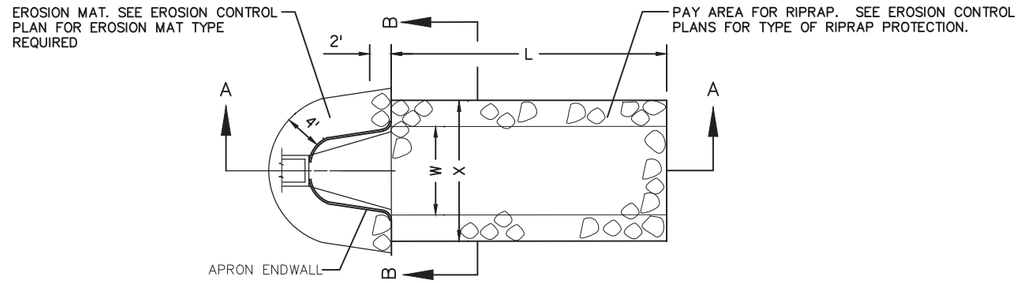
SECTION A-A



DETAIL FOR FRENCH DRAINS

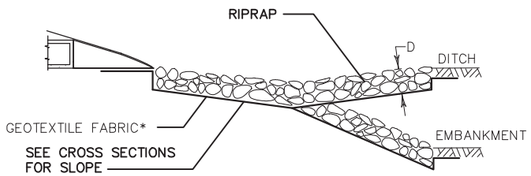
DRAINS ARE TO BE CONSTRUCTED AT LEAST EVERY 250'
AND AT EACH SAG VERTICAL CURVE IN THE PROFILE
OR AS DIRECTED BY THE ENGINEER.

LOCATIONS ARE SHOWN BELOW



PLAN VIEW

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

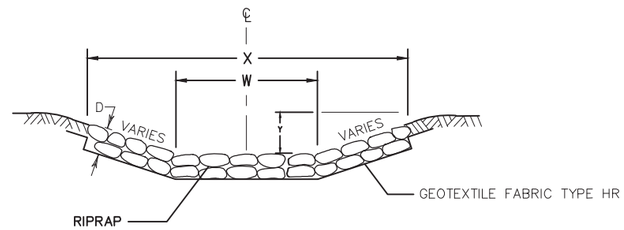


SECTION A-A

D = 18" FOR RIPRAP MEDIUM

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

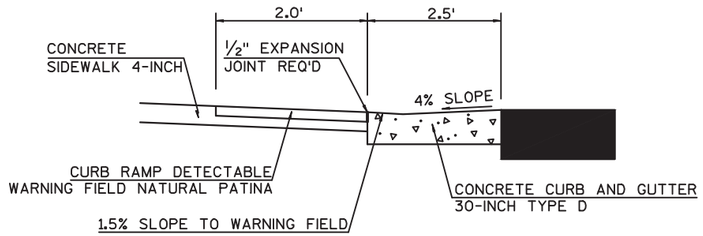
Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE



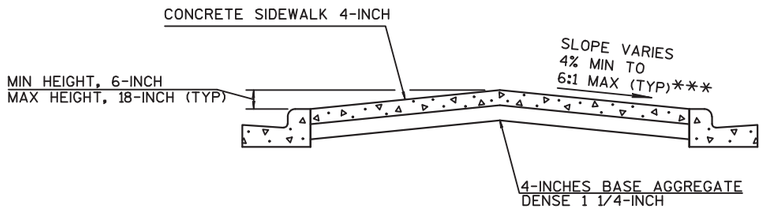
SECTION B-B

RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

SEE EROSION CONTROL PLAN FOR LOCATIONS

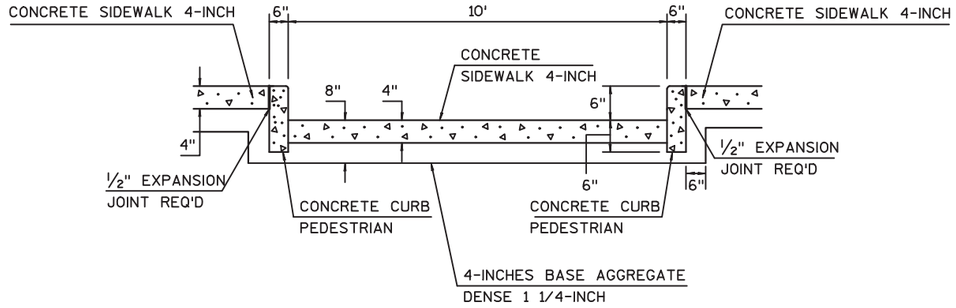


SECTION A-A

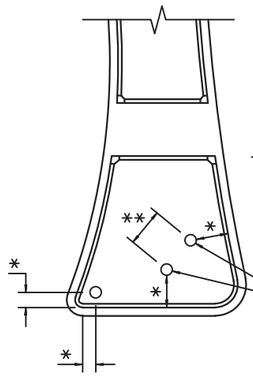


*** SEE CROSS SECTIONS

SECTION C-C



SECTION B-B



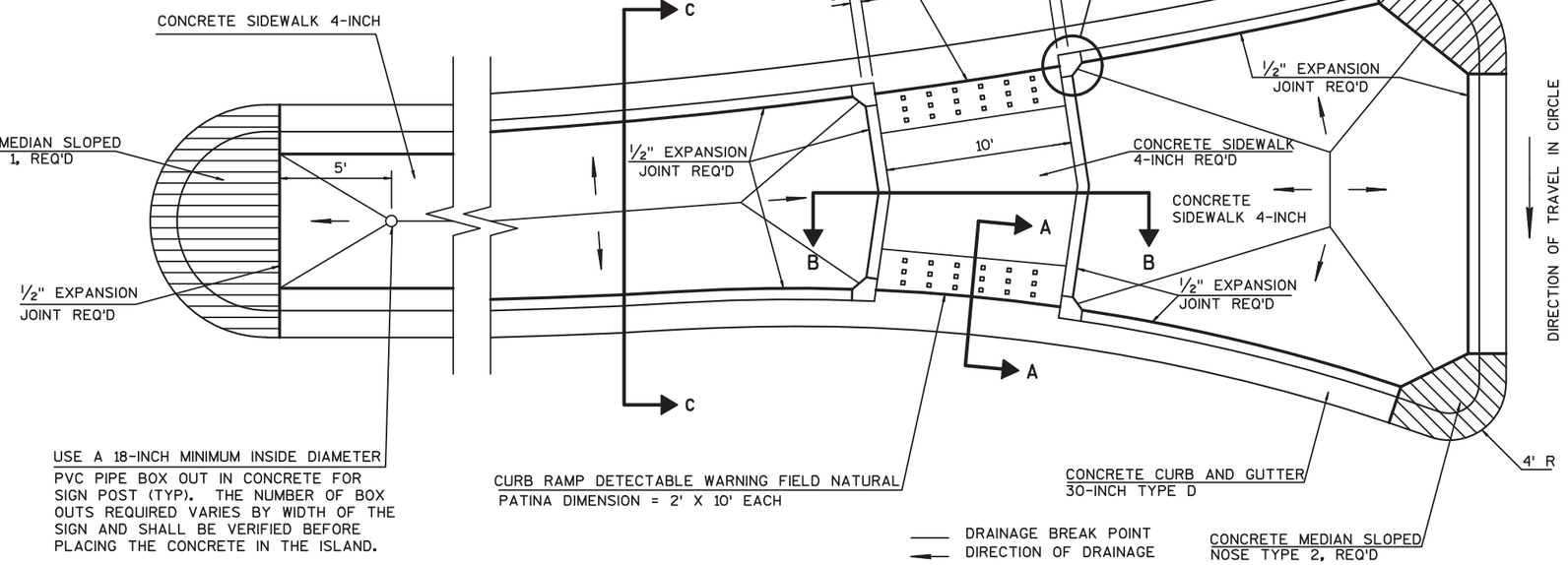
* DISTANCE TO BE LAID OUT IN THE FIELD BASED ON SIGN SIZE. TWO FOOT MINIMUM CLEARANCE BETWEEN THE EDGE OF SIGN AND THE FACE OF CURB.

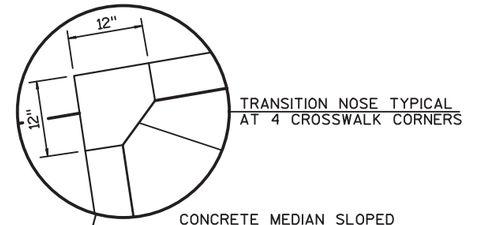
** SEE D1-1 AND D1-2 SIGN PLATE FOR POST SPACING REQUIREMENTS.

USE A 18-INCH MINIMUM INSIDE DIAMETER PVC PIPE BOX OUT IN CONCRETE FOR SIGN POST (TYP). PVC BOX OUT DEPTH SHOULD MATCH ADJACENT PAVEMENT DEPTH. THE NUMBER OF BOX OUTS REQUIRED VARIES BY WIDTH OF THE SIGN AND SHALL BE VERIFIED BEFORE PLACING THE CONCRETE IN THE ISLAND. GRAVEL BACKFILL IS INCIDENTAL TO POSTS WOOD BID ITEM.

CENTER AND SPLITTER ISLAND SIGN LOCATION DETAIL (TYP)

SEE CONSTRUCTION DETAILS - CURB RAMP DETAILS FOR CURB RAMP LAYOUT INFORMATION

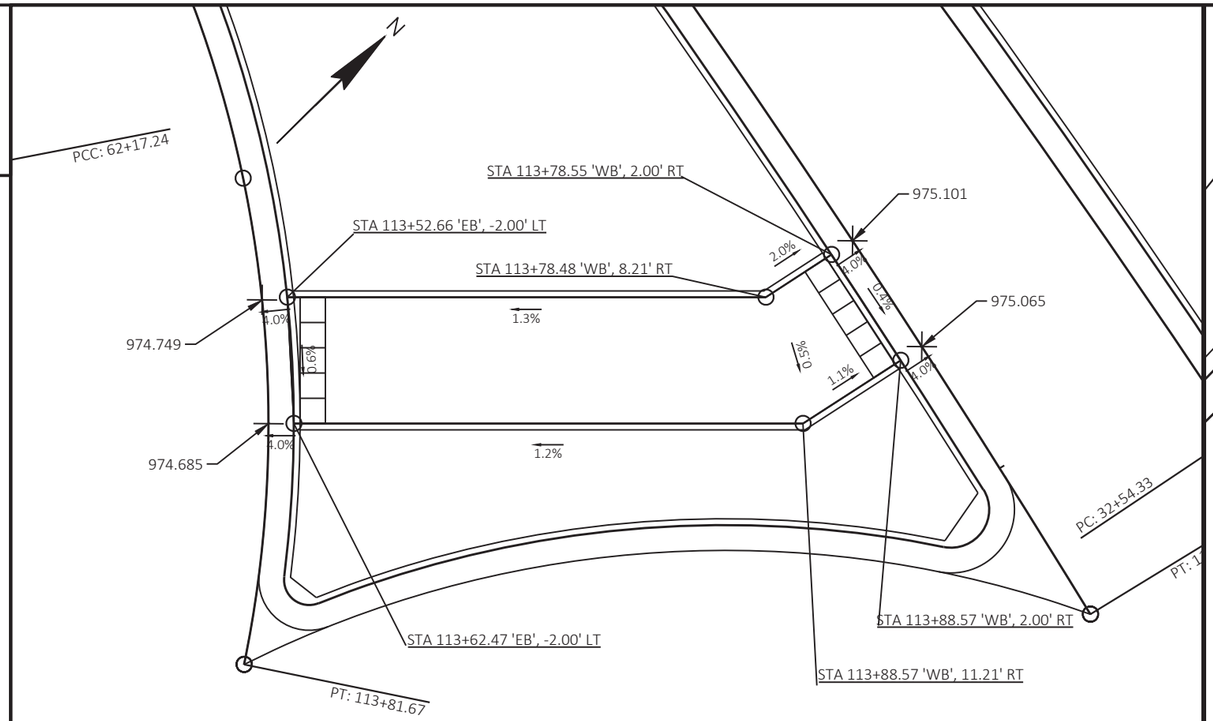


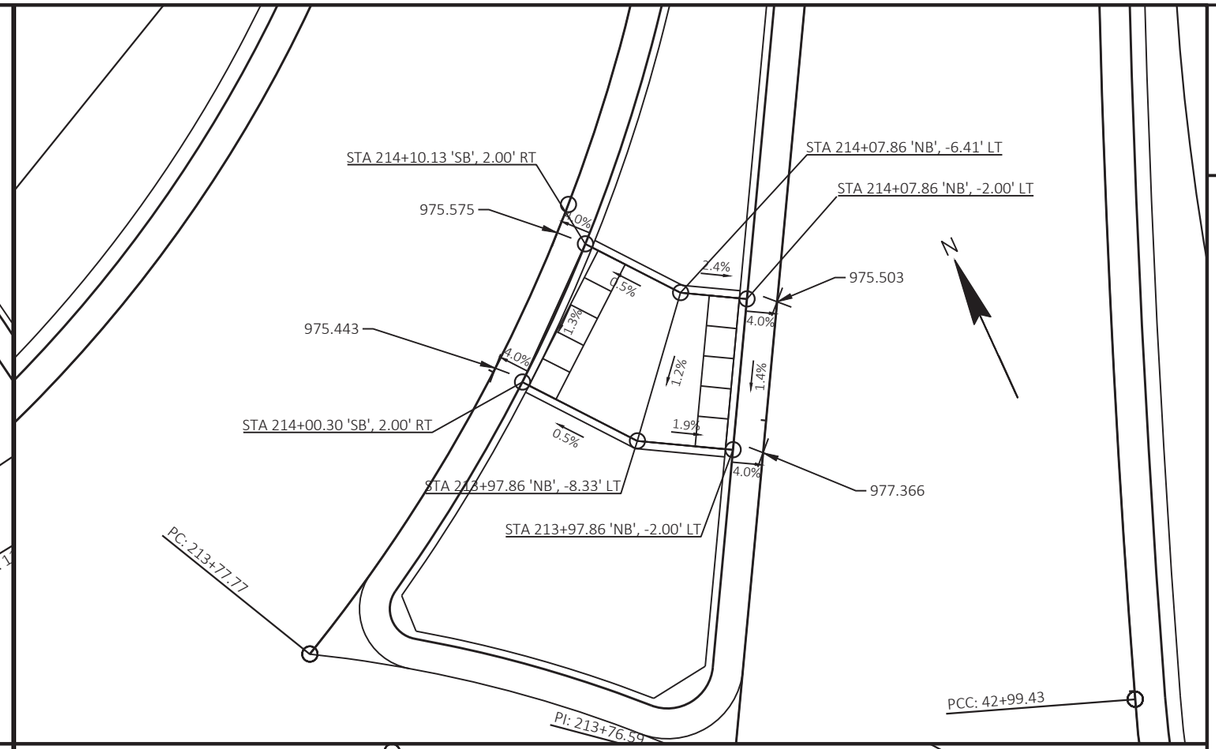


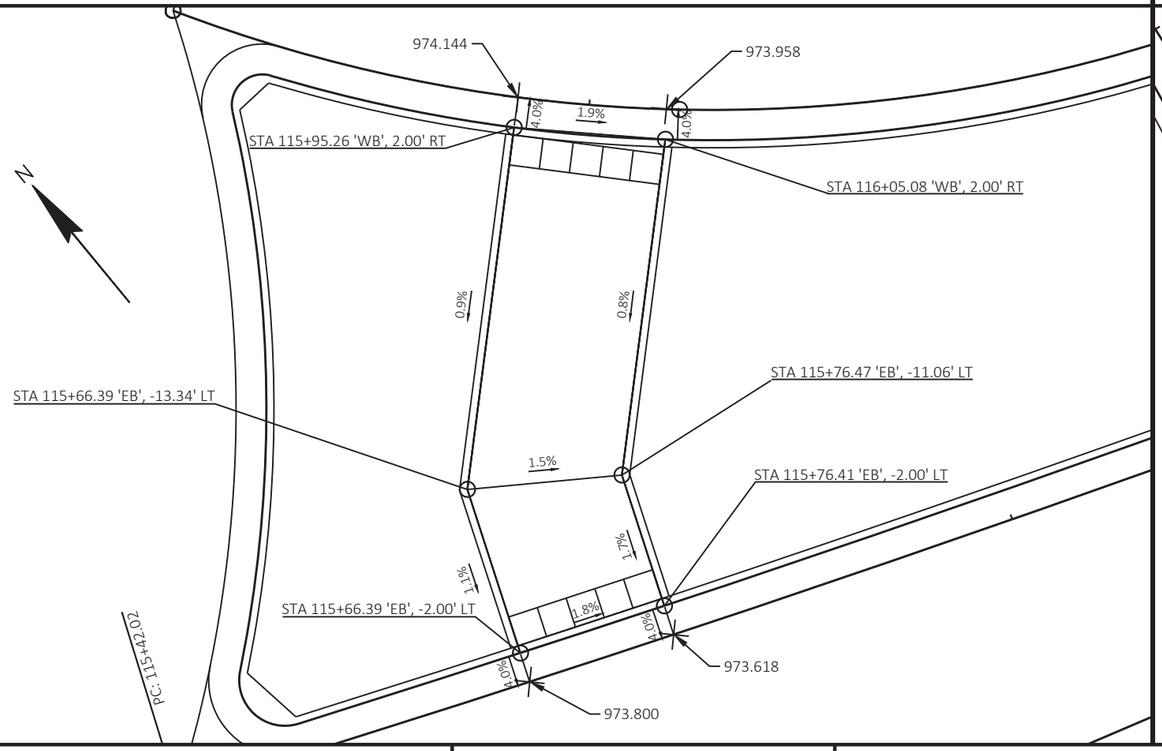
INSTALL TRANSITION NOSE.
(INCIDENTAL TO OTHER PAY ITEMS.)
DO NOT MARK TRANSITION NOSE.

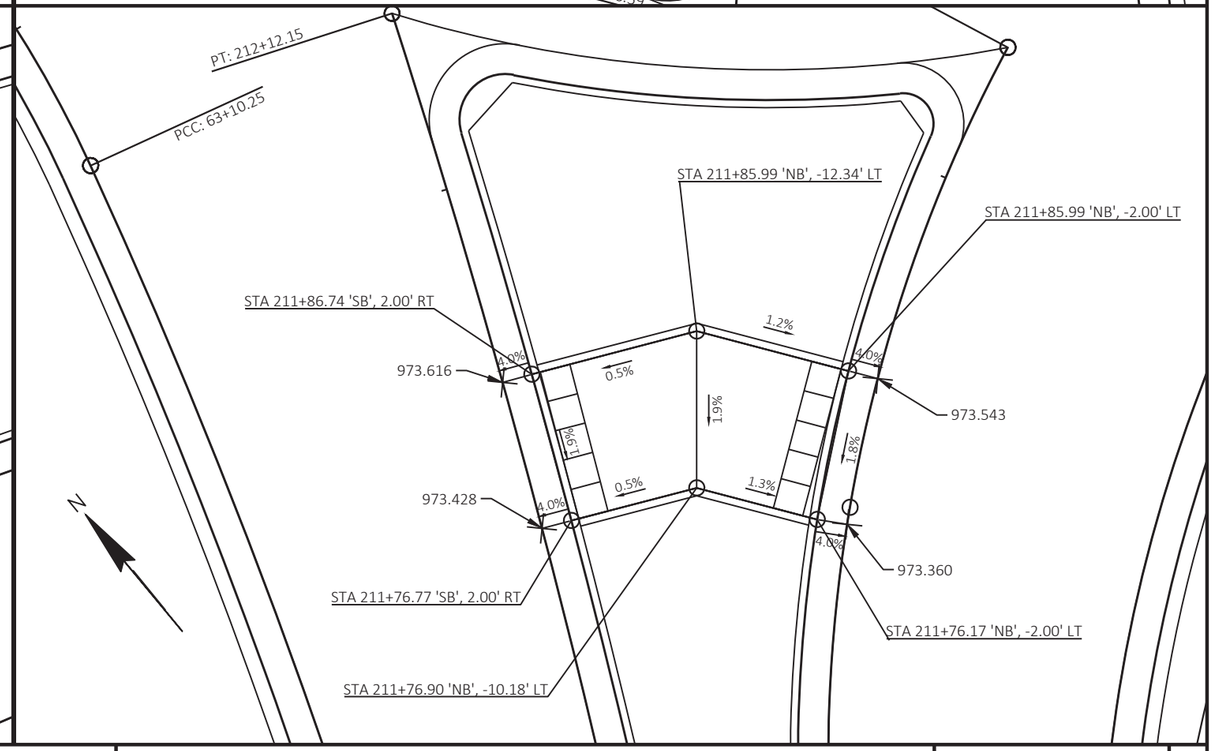
SPLITTER ISLAND DETAIL

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CONSTRUCTION DETAILS	SHEET - 15	E



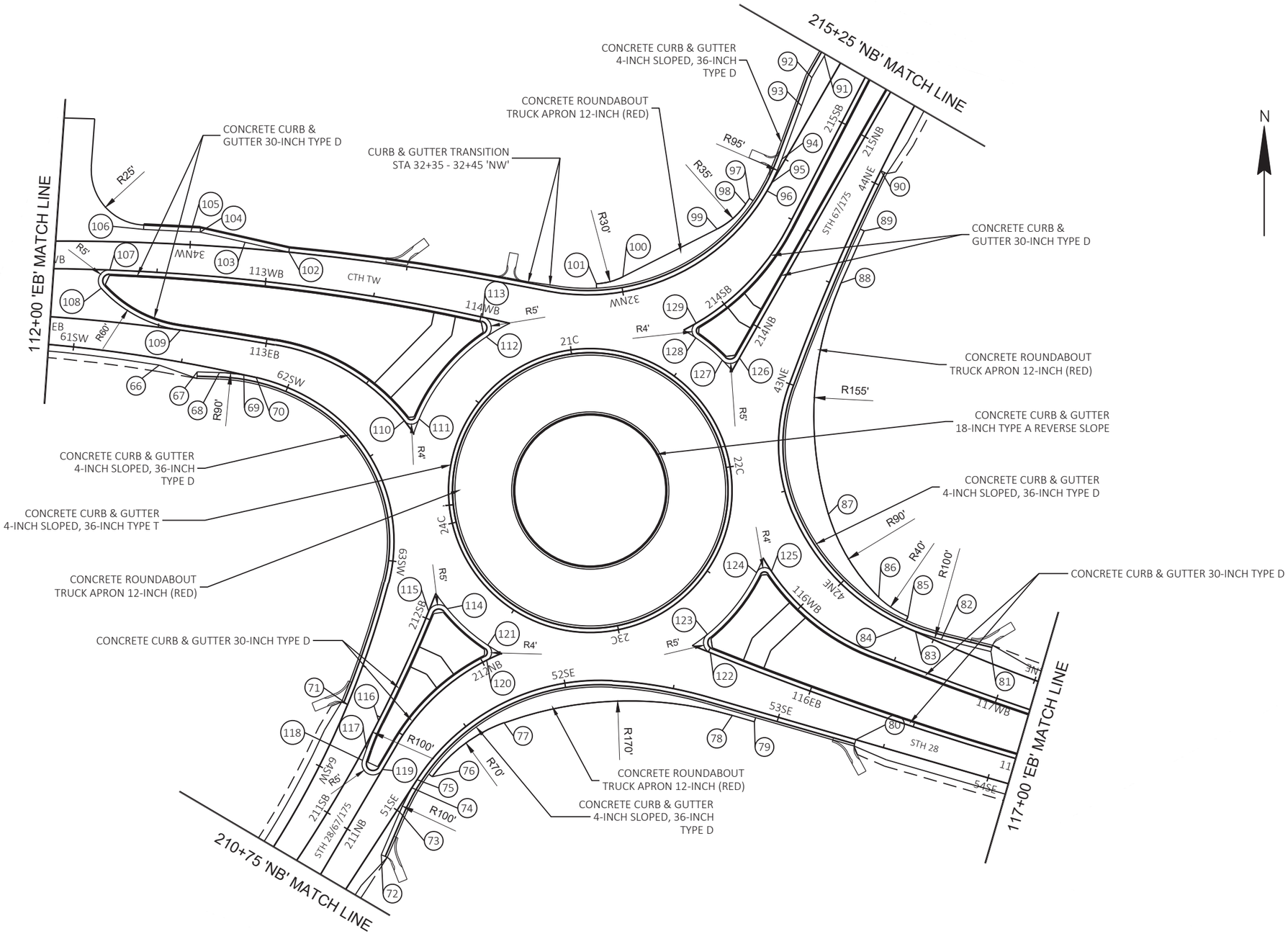






PROJECT NO: 4060-05-72	HWY: 28	COUNTY: DODGE	CURB RAMPS	SHEET 16	E

2

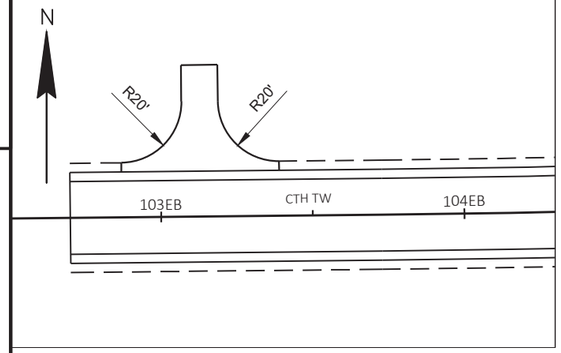


PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	INTERSECTION DETAILS	SHEET 17	E

2

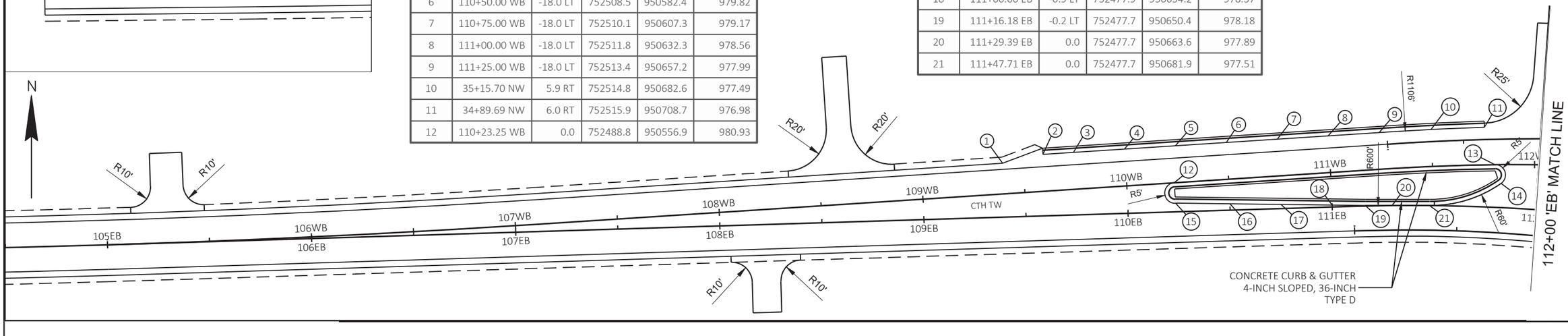
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	ELEVATION
66	61+40.15 SW	3.0 RT	752453.5	950784.4	975.40
67	61+57.89 SW	3.0 RT	752450.4	950801.8	975.16
68	61+79.13 SW	0.2 RT	752450.0	950812.0	975.07
69	62+17.24 SW	0.0	752448.9	950823.1	974.97
70	63+10.25 SW	0.0	752447.8	950828.8	974.91
71	63+69.14 SW	0.0	752298.0	950870.7	972.62
72	50+79.02 SE	5.0 RT	752229.2	950886.1	971.31
73	50+99.99 SE	1.4 RT	752248.7	950894.6	971.88
74	51+12.35 SE	0.1 RT	752259.8	950900.2	972.18
75	51+16.80 SE	0.0	752263.6	950902.5	972.28
76	51+22.00 SE	5.0 RT	752264.9	950909.5	972.63
77	51+66.30 SE	8.2 RT	752289.6	950942.5	973.55
78	52+79.48 SE	5.0 RT	752293.0	951047.0	973.64
79	52+90.00 SE	5.0 RT	752290.1	951057.1	973.39
80	53+36.91 SE	0.0	752281.9	951103.6	972.29
81	42+99.43 NE	0.0	752322.3	951165.5	971.61
82	44+06.27 NE	0.0	752327.8	951142.8	972.28
83	30+61.53 NW	8.0 RT	752331.5	951130.9	972.62
84	30+75.00 NW	5.3 RT	752333.7	951125.7	972.77
85	31+00.00 NW	1.8 RT	752338.4	951127.5	973.05
86	31+12.49 NW	0.1 RT	752347.1	951114.1	973.49
87	32+34.15 NW	0.0	752385.2	951091.1	974.74
88	33+54.58 NW	0.0	752491.0	951096.8	975.79
89	33+75.00 NW	2.8 RT	752514.9	951107.4	976.17
90	33+95.74 NW	6.0 RT	752542.5	951115.0	976.30
91	30+50.00 NW	8.0 RT	752595.1	951089.2	976.66
92	30+61.53 NW	8.0 RT	752585.1	951083.4	976.51
93	30+75.00 NW	5.7 RT	752572.3	951078.7	976.37
94	31+00.75 NW	1.3 RT	752547.8	951069.7	976.11
95	31+12.49 NW	0.1 RT	752537.0	951064.9	975.98
96	31+16.65 NW	0.0	752533.3	951062.9	975.92
97	31+24.00 NW	5.0 RT	752529.9	951054.9	976.06

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	ELEVATION
98	31+27.35 NW	4.9 RT	752527.3	951053.1	976.01
99	31+45.85 NW	7.0 RT	752515.8	951040.0	975.74
100	31+98.70 NW	6.8 RT	752493.9	950996.8	975.21
101	32+12.00 NW	5.0 RT	752490.7	950984.7	975.18
102	33+54.58 NW	0.0 RT	752505.2	950843.8	975.29
103	33+75.00 NW	2.8 RT	752509.8	950823.7	975.42
104	33+95.74 NW	6.0 RT	752514.4	950803.1	975.57
105	34+00.00 NW	6.0 RT	752514.6	950798.8	975.62
106	34+21.55 NW	6.0 RT	752515.6	950777.2	975.89
107	112+28.33 WB	0.0	752497.0	950761.7	976.48
108	112+24.72 WB	8.5 RT	752488.7	950757.8	976.73
109	112+60.28 EB	0.0	752469.5	950794.1	975.65
110	113+74.37 EB	0.0	752427.9	950896.6	974.61
111	113+77.67 EB	-6.0 LT	752428.9	950903.4	974.62
112	114+04.39 WB	8.4 RT	752466.4	950934.2	974.93
113	114+00.74 WB	0.0	752475.5	950932.5	975.03
114	212+07.62 SB	7.4 RT	752341.9	950916.3	974.06
115	212+03.26 SB	0.0	752340.6	950907.8	973.93
116	211+48.20 SB	0.0	752290.6	950884.9	972.86
117	211+34.25 SB	1.1 RT	752277.7	950879.4	972.58
118	211+28.76 SB	2.1 RT	752272.4	950877.5	972.48
119	211+31.64 NB	0.0	752268.2	950886.6	972.46
120	212+02.11 NB	0.0	752318.3	950934.4	973.84
121	212+05.39 NB	-6.0 LT	752325.2	950934.9	973.99
122	115+50.98 EB	0.0	752321.7	951036.9	974.07
123	115+46.58 EB	-7.4 LT	752330.2	951035.6	974.28
124	115+75.87 WB	6.0 RT	752358.4	951058.1	974.51
125	115+79.14 WB	0.0	752358.9	951065.0	974.43
126	213+83.47 NB	0.0	752456.8	951050.2	975.17
127	213+78.66 NB	-6.4 LT	752455.7	951042.3	975.09
128	213+80.99 SB	5.7 RT	752465.9	951030.2	975.13
129	213+84.43 SB	0.0	752472.7	951030.5	975.23

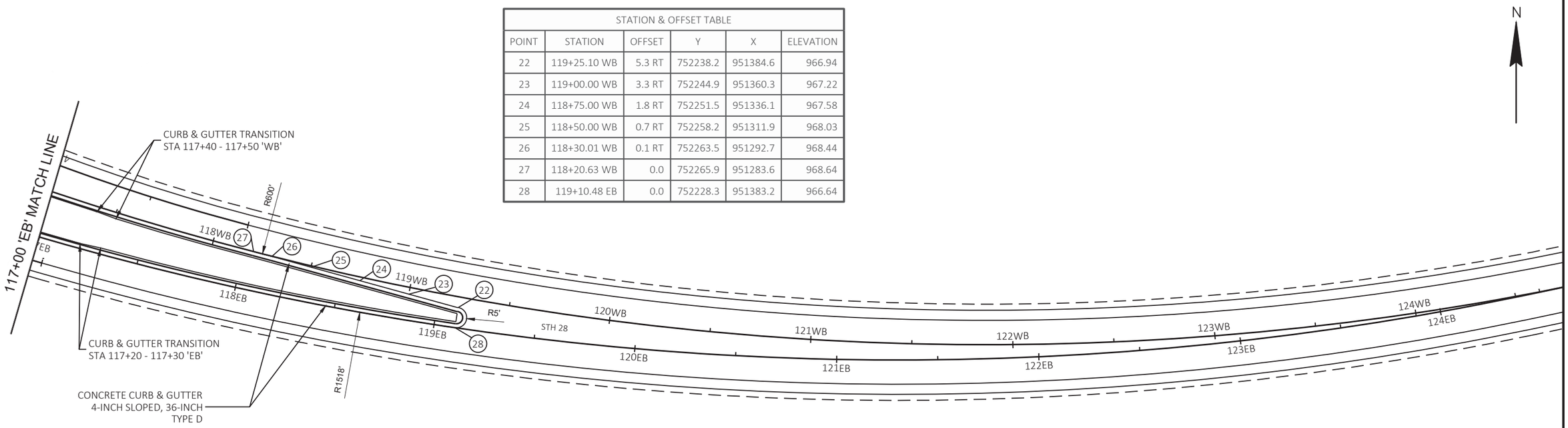


STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	ELEVATION
1	109+40.00 WB	-15.0 LT	752498.4	950472.8	982.97
2	109+60.00 WB	-18.0 LT	752502.7	950492.6	982.36
3	109+75.00 WB	-18.0 LT	752503.7	950507.5	981.94
4	110+00.00 WB	-18.0 LT	752505.3	950532.5	981.24
5	110+25.00 WB	-18.0 LT	752506.9	950557.4	980.52
6	110+50.00 WB	-18.0 LT	752508.5	950582.4	979.82
7	110+75.00 WB	-18.0 LT	752510.1	950607.3	979.17
8	111+00.00 WB	-18.0 LT	752511.8	950632.3	978.56
9	111+25.00 WB	-18.0 LT	752513.4	950657.2	977.99
10	35+15.70 NW	5.9 RT	752514.8	950682.6	977.49
11	34+89.69 NW	6.0 RT	752515.9	950708.7	976.98
12	110+23.25 WB	0.0	752488.8	950556.9	980.93

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	ELEVATION
13	111+80.68 WB	0.0	752497.7	950714.0	977.25
14	111+83.53 WB	9.1 RT	752488.6	950716.9	977.26
15	110+23.37 EB	-4.2 LT	752478.8	950557.5	980.61
16	110+50.00 EB	-3.1 LT	752478.5	950584.2	979.86
17	110+75.00 EB	-2.0 LT	752478.2	950609.2	979.19
18	111+00.00 EB	-0.9 LT	752477.9	950634.2	978.57
19	111+16.18 EB	-0.2 LT	752477.7	950650.4	978.18
20	111+29.39 EB	0.0	752477.7	950663.6	977.89
21	111+47.71 EB	0.0	752477.7	950681.9	977.51



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	ELEVATION
22	119+25.10 WB	5.3 RT	752238.2	951384.6	966.94
23	119+00.00 WB	3.3 RT	752244.9	951360.3	967.22
24	118+75.00 WB	1.8 RT	752251.5	951336.1	967.58
25	118+50.00 WB	0.7 RT	752258.2	951311.9	968.03
26	118+30.01 WB	0.1 RT	752263.5	951292.7	968.44
27	118+20.63 WB	0.0	752265.9	951283.6	968.64
28	119+10.48 EB	0.0	752228.3	951383.2	966.64



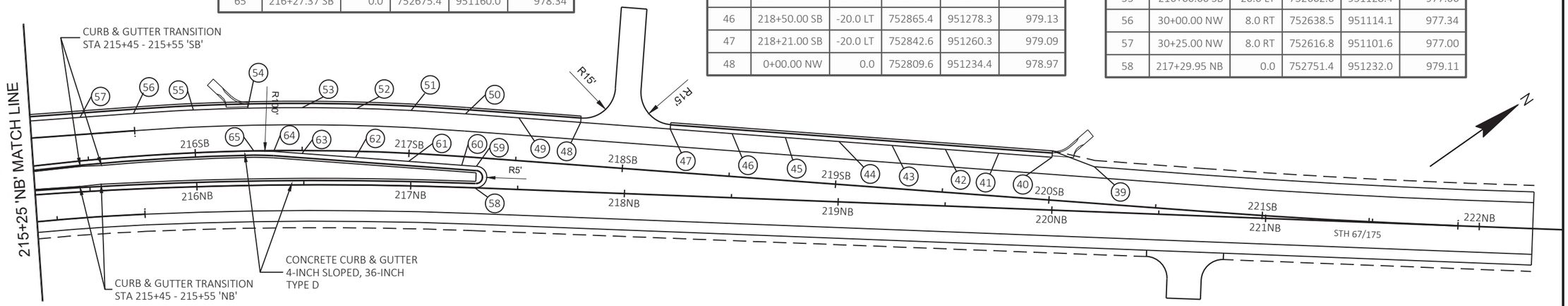
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	INTERSECTION DETAILS	SHEET 19	E

2

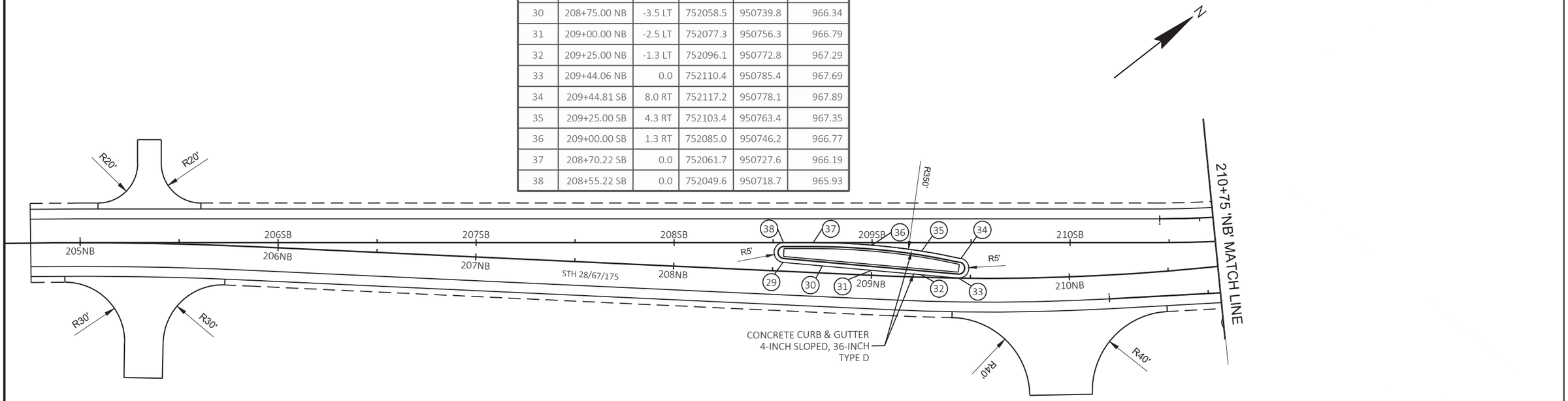
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	ELEVATION
59	217+31.86 SB	4.1 RT	752757.6	951224.2	979.23
60	217+25.00 SB	4.1 RT	752752.2	951219.9	979.19
61	217+00.00 SB	3.8 RT	752732.7	951204.5	979.03
62	216+75.00 SB	2.9 RT	752713.1	951189.1	978.82
63	216+50.00 SB	1.4 RT	752693.4	951173.7	978.58
64	216+36.73 SB	0.4 RT	752683.0	951165.4	978.44
65	216+27.37 SB	0.0	752675.4	951160.0	978.34

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	ELEVATION
39	220+20.00 SB	-17.0 LT	752997.1	951385.8	978.73
40	220+00.00 SB	-20.0 LT	752983.3	951371.0	978.78
41	219+75.00 SB	-20.0 LT	752963.6	951355.6	978.90
42	219+50.00 SB	-20.0 LT	752944.0	951340.1	979.00
43	219+25.00 SB	-20.0 LT	752924.3	951324.7	979.07
44	219+00.00 SB	-20.0 LT	752904.7	951309.2	979.11
45	218+75.00 SB	-20.0 LT	752885.0	951293.7	979.13
46	218+50.00 SB	-20.0 LT	752865.4	951278.3	979.13
47	218+21.00 SB	-20.0 LT	752842.6	951260.3	979.09
48	0+00.00 NW	0.0	752809.6	951234.4	978.97

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	ELEVATION
49	217+50.00 SB	-20.0 LT	752786.8	951216.4	978.84
50	217+25.00 SB	-20.0 LT	752767.2	951201.0	978.71
51	217+00.00 SB	-20.0 LT	752746.9	951185.5	978.55
52	216+75.00 SB	-20.0 LT	752726.4	951170.4	978.36
53	216+50.00 SB	-20.0 LT	752705.4	951155.9	978.15
54	216+25.00 SB	-20.0 LT	752684.2	951141.9	977.92
55	216+00.00 SB	-20.0 LT	752662.6	951128.4	977.66
56	30+00.00 NW	8.0 RT	752638.5	951114.1	977.34
57	30+25.00 NW	8.0 RT	752616.8	951101.6	977.00
58	217+29.95 NB	0.0	752751.4	951232.0	979.11



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	ELEVATION
29	208+55.11 NB	-4.4 LT	752043.6	950726.7	966.02
30	208+75.00 NB	-3.5 LT	752058.5	950739.8	966.34
31	209+00.00 NB	-2.5 LT	752077.3	950756.3	966.79
32	209+25.00 NB	-1.3 LT	752096.1	950772.8	967.29
33	209+44.06 NB	0.0	752110.4	950785.4	967.69
34	209+44.81 SB	8.0 RT	752117.2	950778.1	967.89
35	209+25.00 SB	4.3 RT	752103.4	950763.4	967.35
36	209+00.00 SB	1.3 RT	752085.0	950746.2	966.77
37	208+70.22 SB	0.0	752061.7	950727.6	966.19
38	208+55.22 SB	0.0	752049.6	950718.7	965.93



PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	INTERSECTION DETAILS	SHEET 20	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\40600502\SHEETSPLAN\021101 - INTERSECTION DETAILS\021101_ID.DWG
LAYOUT NAME - 021104_id_northandsouthleg

PLOT DATE : 8/24/2021 12:56 PM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- INLET PROTECTION, TYPE C
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

103+00EB
104+00EB
105+00EB
106+00WB
106+00EB
107+00WB
107+00EB
108+00WB
108+00EB
109+00WB
109+00EB
110+00WB
110+00EB
31+00SD SW

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	EROSION CONTROL	SHEET 21	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\022001 - EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 022001_ec
PLOT DATE : 1/3/2022 1:33 PM
PLOT BY : DEYMARCOS, TIJLER JO
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- INLET PROTECTION, TYPE C
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

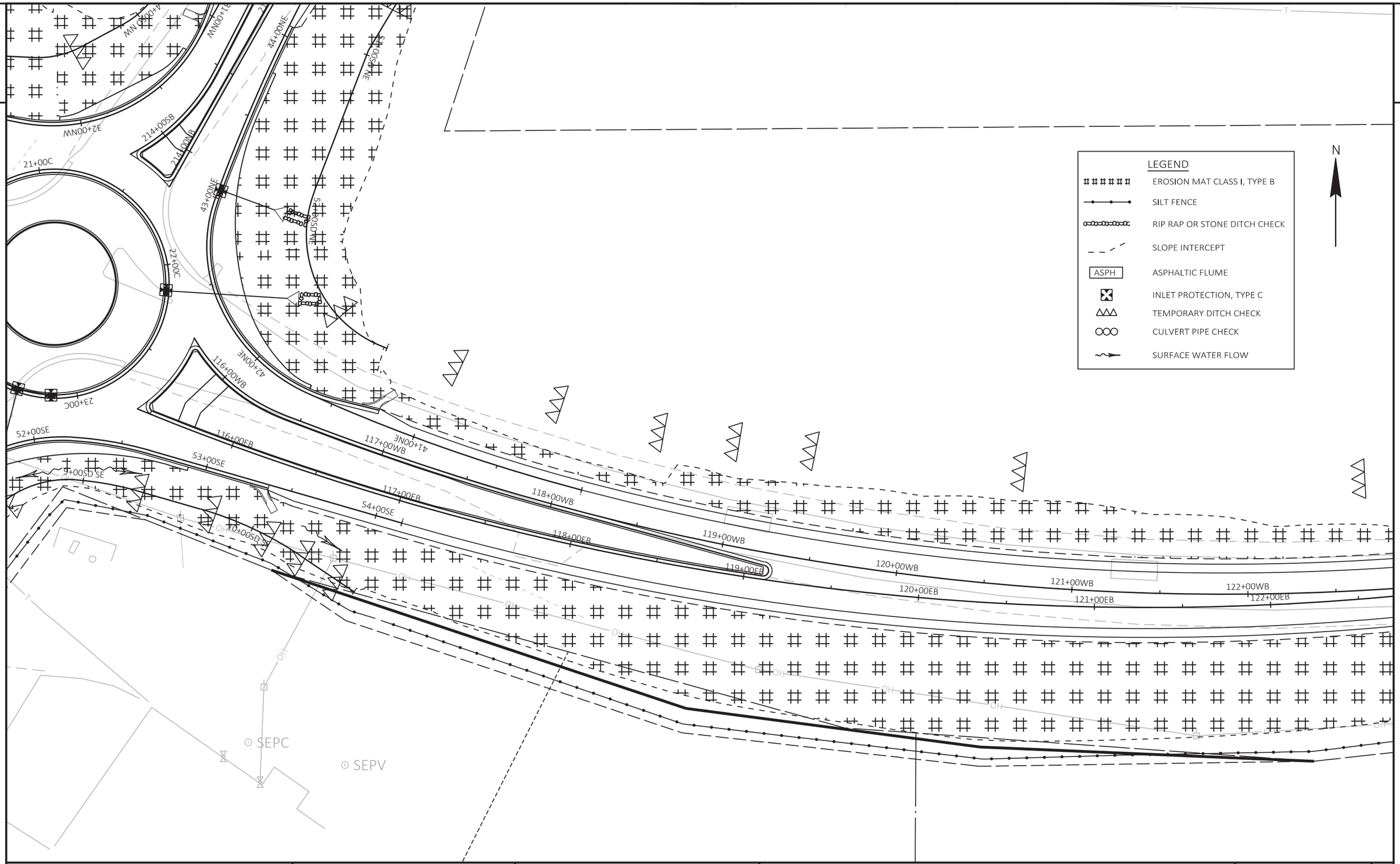
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	EROSION CONTROL	SHEET 22	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\022001 - EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 022002_ec

PLOT DATE : 1/3/2022 1:33 PM PLOT BY : DEYMARCOS, TIJLER JO PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	EROSION CONTROL	SHEET 23	E

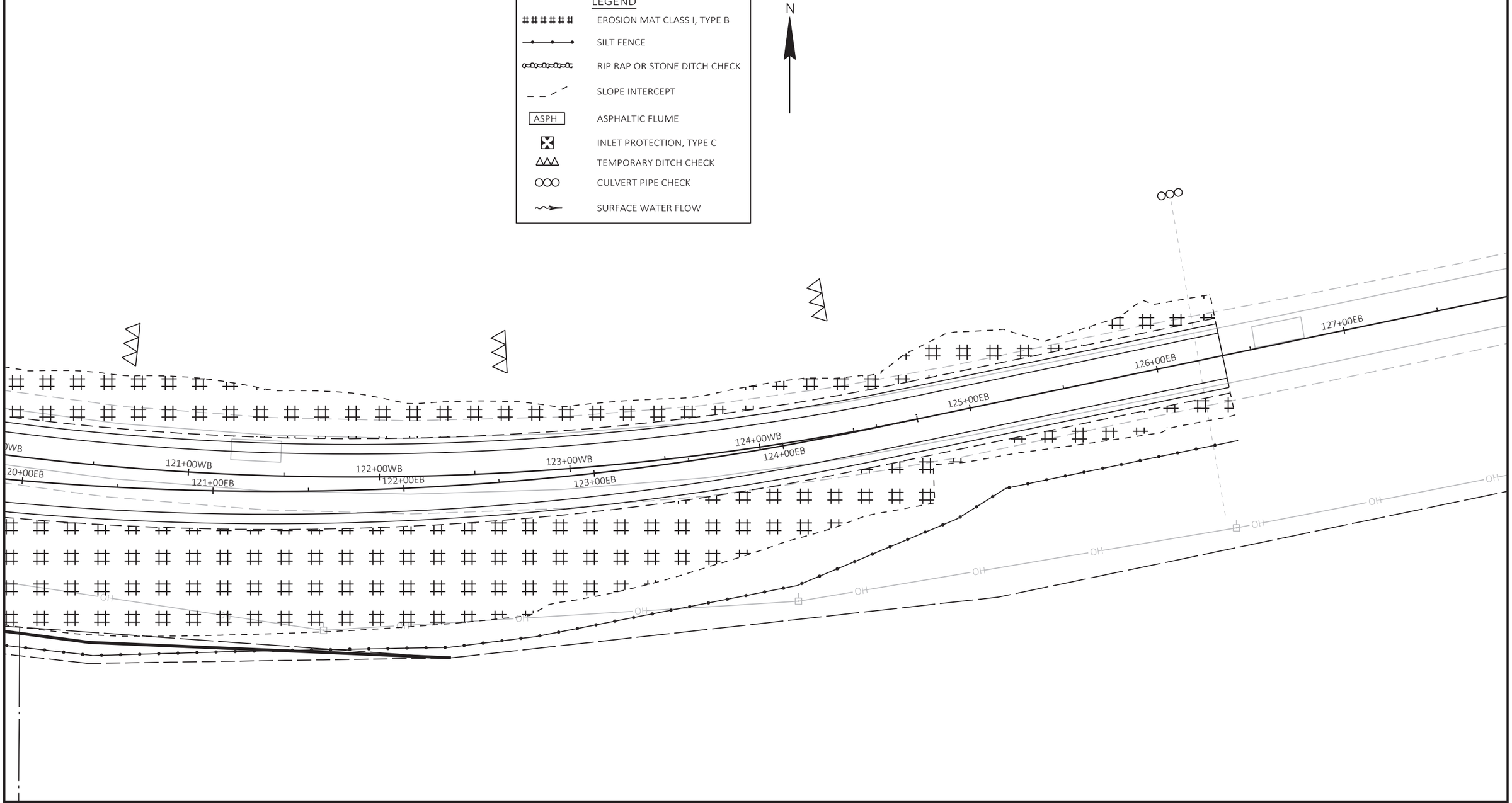
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\022001 - EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 022003_ec
PLOT DATE : 1/3/2022 1:33 PM
PLOT BY : DEYMARCOS, TIJLER JO
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- INLET PROTECTION, TYPE C
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

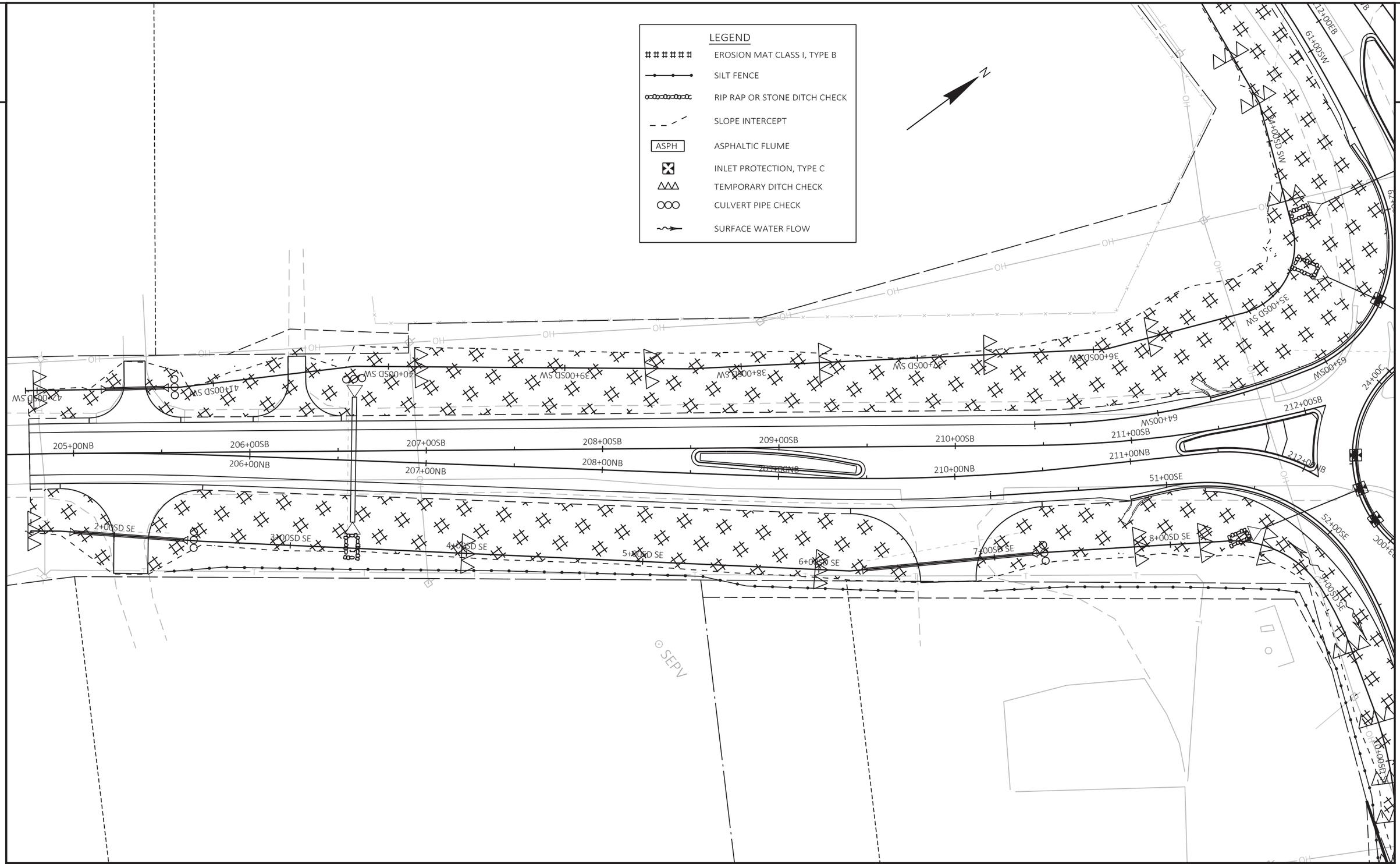
N



PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	EROSION CONTROL	SHEET 24	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\022001 - EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 022004_ec

PLOT DATE : 1/3/2022 1:33 PM PLOT BY : DEYMARCOS, TIJLER JO PLOT NAME : PLOT SCALE : 1 IN:50 FT

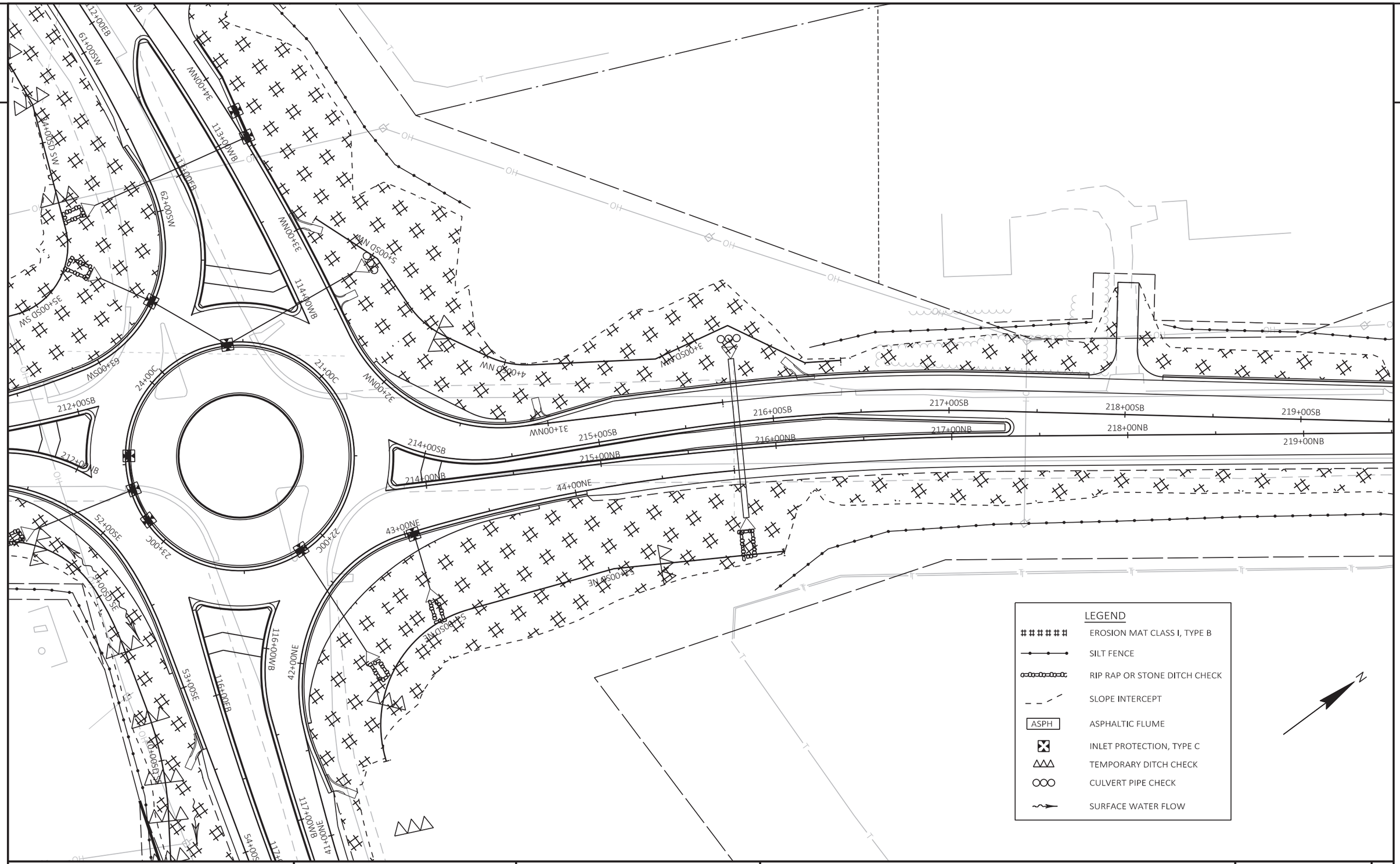


PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	EROSION CONTROL	SHEET 25	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\022001 - EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 022005_ec

PLOT DATE : 1/3/2022 1:34 PM PLOT BY : DEYMARCOS, TIJLER JO PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	EROSION CONTROL	SHEET 26	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\022001 - EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 022006_ec

PLOT DATE : 1/3/2022 1:34 PM PLOT BY : DEYMARCOS, TIJLER JO PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- INLET PROTECTION, TYPE C
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

SEPV

OH

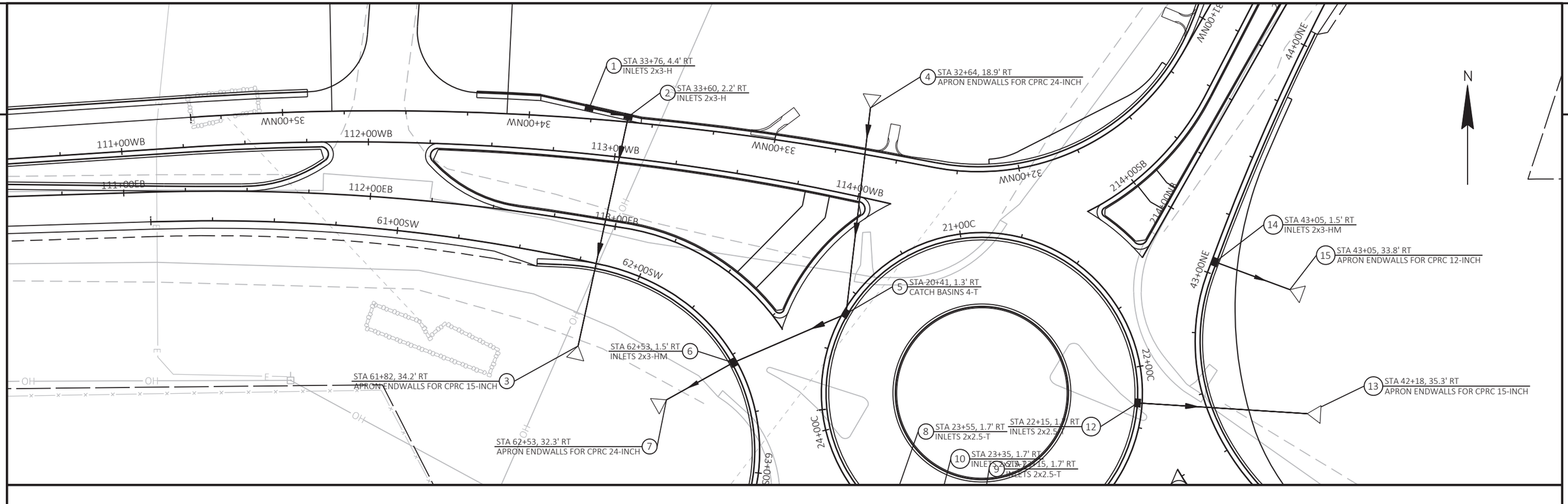
217+00SB
217+00NB
218+00SB
218+00NB
219+00SB
219+00NB
220+00SB
220+00NB
221+00SB
221+00NB
222+00NB
223+00NB
224+00NB

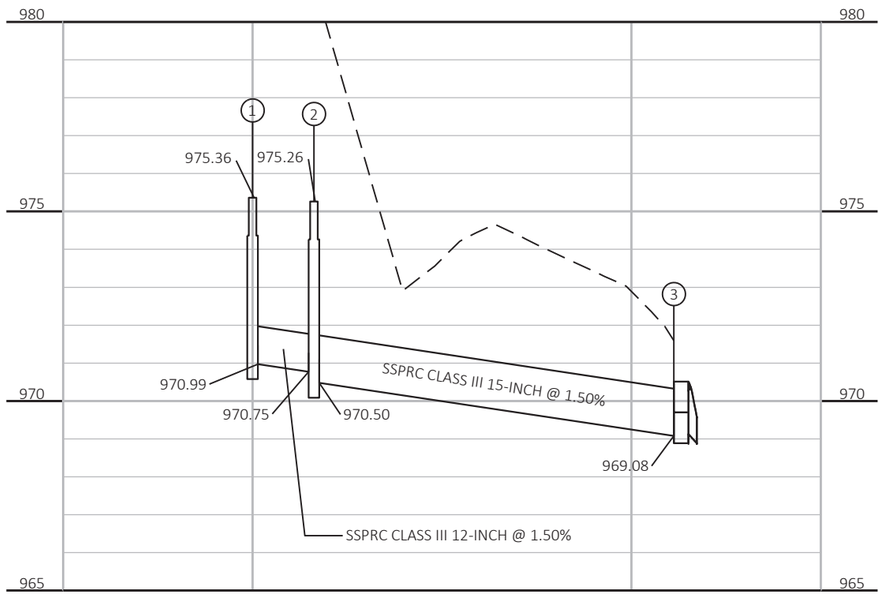
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	EROSION CONTROL	SHEET 27	E

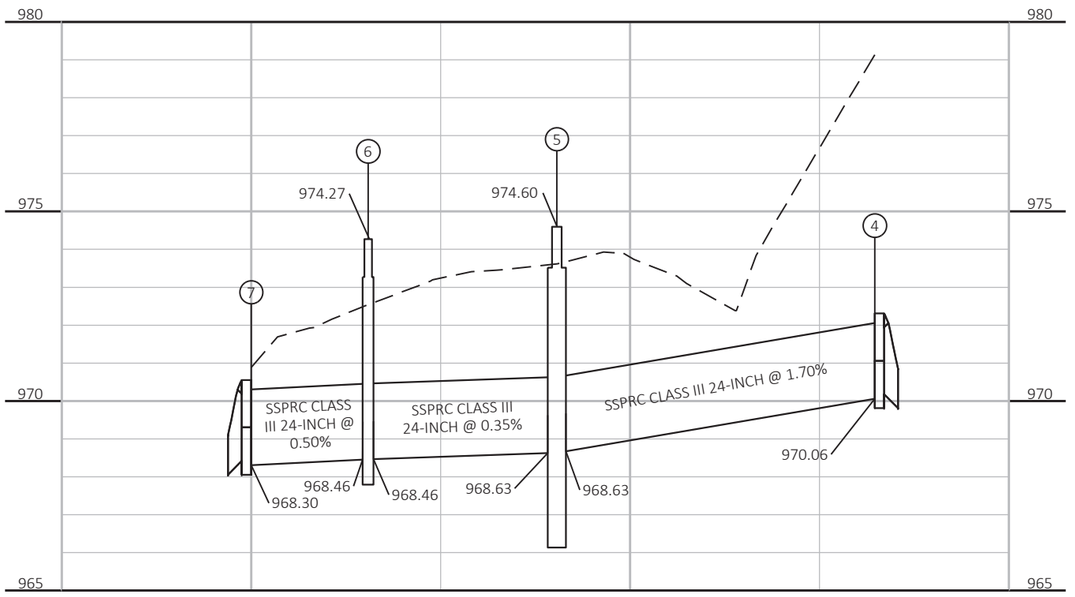
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\022001 - EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 022007_ec

PLOT DATE : 1/3/2022 1:34 PM PLOT BY : DEYMARCOS, TIJLER JO PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

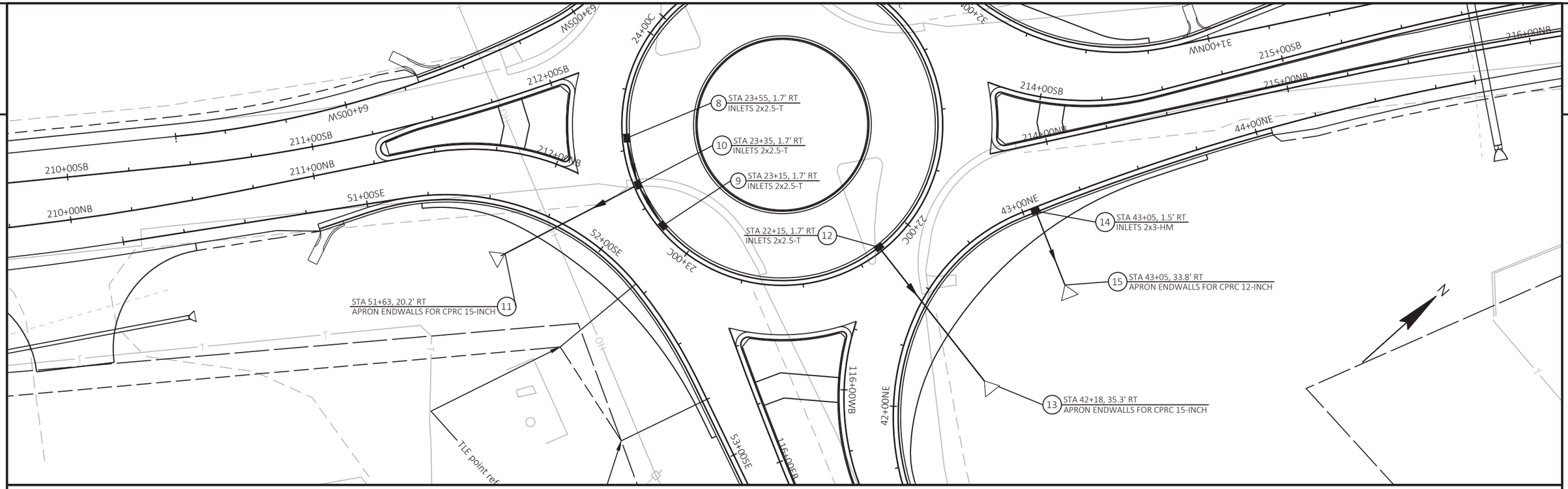


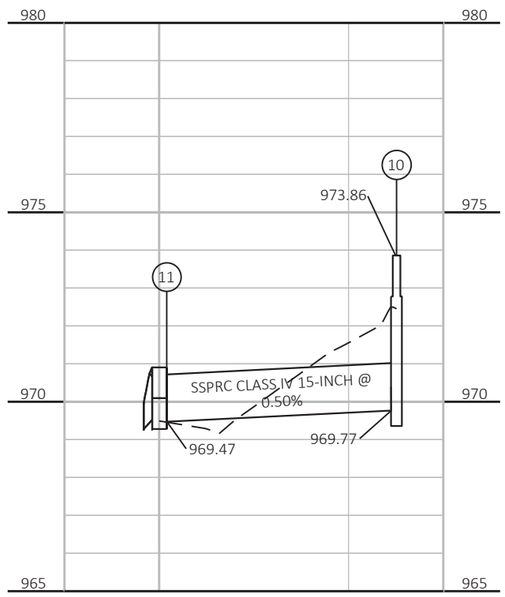


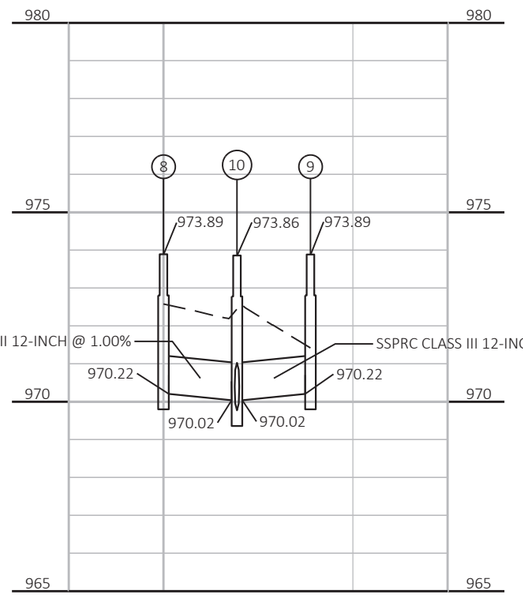


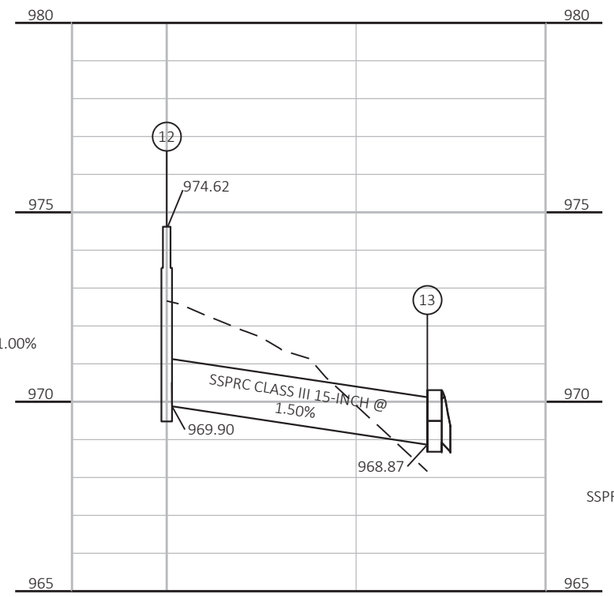
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	STORM SEWER	SHEET 28	E

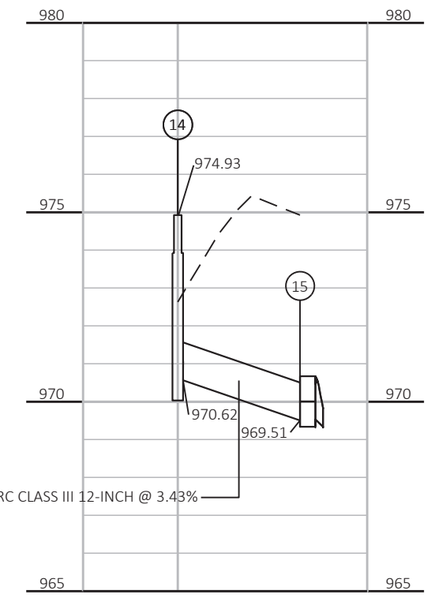
2











PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	STORM SEWER	SHEET 29	E

2

2

N

MARKING ISLAND NOSE
EPOXY, YELLOW

MARKING CURB
EPOXY, YELLOW

MARKING LINE EPOXY
4-INCH, YELLOW

MARKING DOTTED EXTENSION EPOXY
18-INCH, WHITE, 2' SEG., 2' GAP

MARKING
LINE
EPOXY
8-INCH,
WHITE

MARKING DOTTED EXTENSION EPOXY
18-INCH, WHITE, 2' SEG., 2' GAP

MARKING LINE EPOXY
4-INCH, YELLOW

MARKING DOTTED EXTENSION EPOXY
18-INCH, WHITE, 2' SEG., 2' GAP

MARKING LINE EPOXY
4-INCH, YELLOW

MARKING DOTTED EXTENSION EPOXY
18-INCH, WHITE, 2' SEG., 2' GAP

MARKING LINE EPOXY
4-INCH, YELLOW

CTH TW

STH 67/175

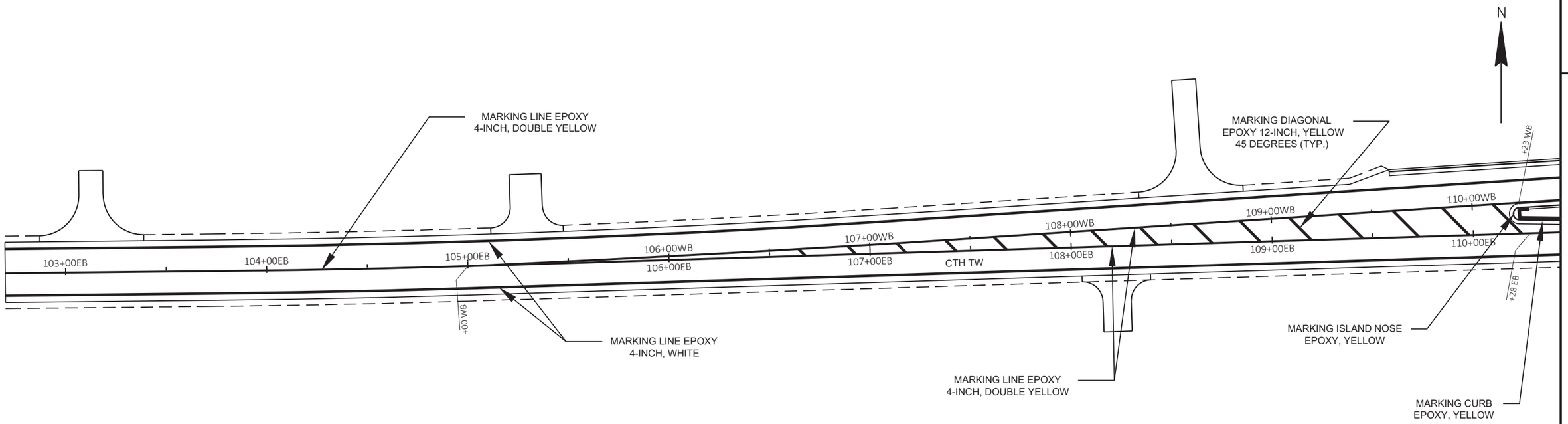
STH 28/67/175

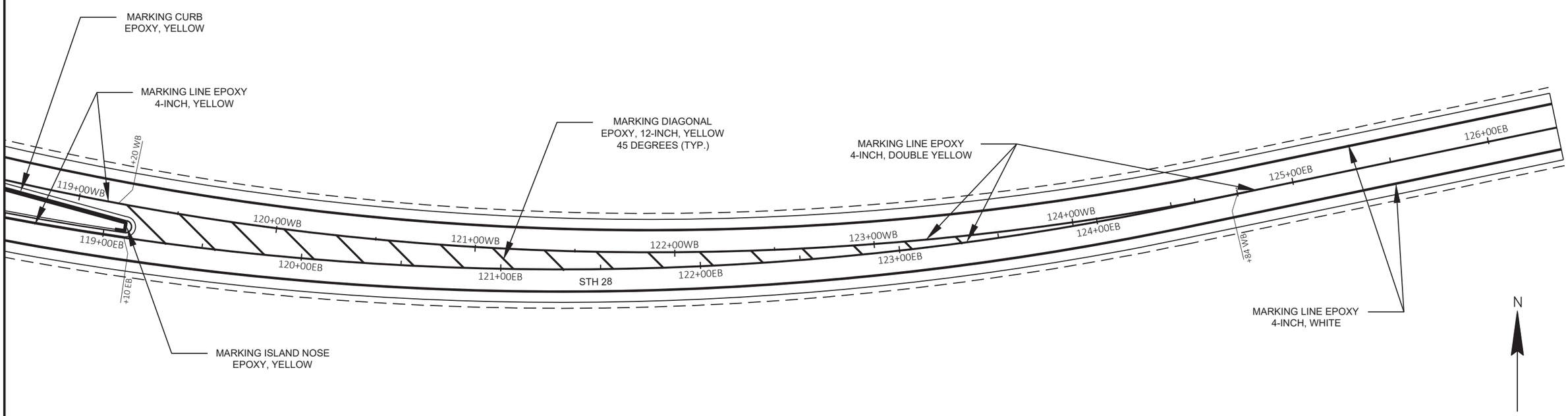
STH 28

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PERMANENT PAVEMENT MARKING	SHEET 30	E

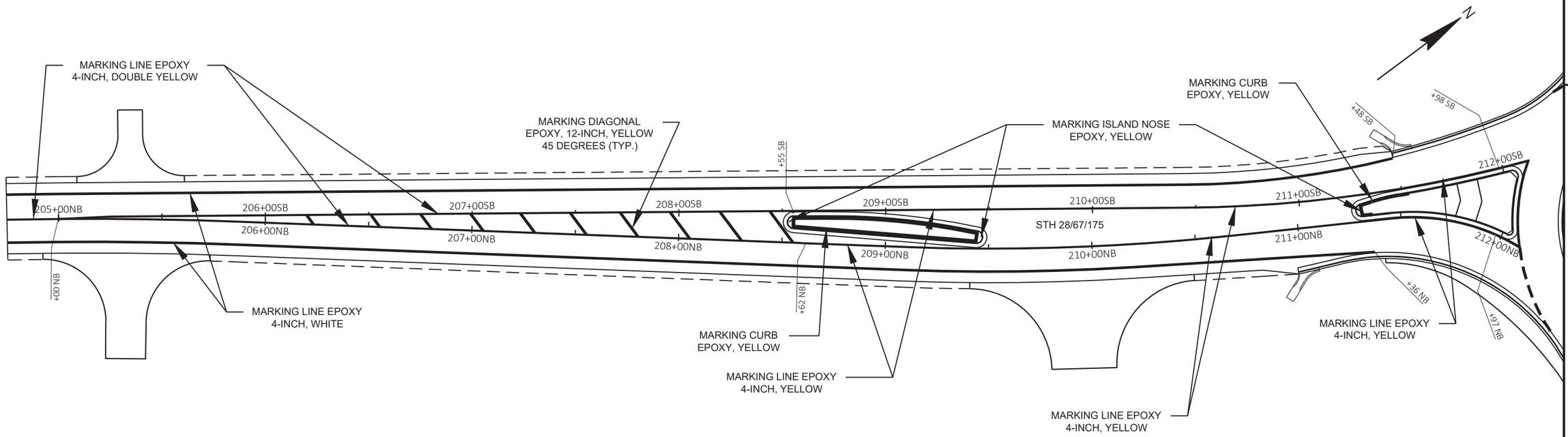
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\023201 - PERMANENT SIGNING & PAVEMENT MARKING\023201_PM.DWG
LAYOUT NAME - 023202_pm
PLOT DATE : 8/25/2021 1:39 PM PLOT BY : ARENSDORF, JAROD P PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

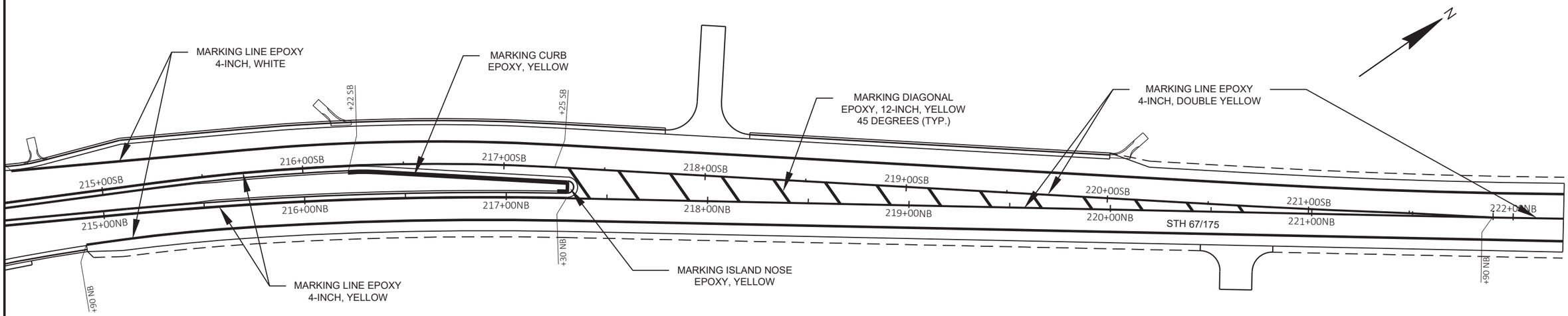
2





PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PERMANENT MARKING	SHEET 31	E





PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PERMANENT MARKING	SHEET 32	E

2

CTH TW

103+00EB
104+00EB
105+00EB
106+00WB
106+00EB
107+00WB
107+00EB
108+00WB
108+00EB
109+00WB
109+00EB
110+00WB
110+00EB

1-01
JCT JCT JCT
28 67 175
J1-3
72"X39"

1-02
W2-6
30"X30"
W13-1
18"X18"
15 MPH

1-03
EAST
28
NORTH
67
175
WEST SOUTH SOUTH
28 67 175

1-04
W6-3
36"X36"

1-05
R4-7
24"X30"
W5-56
18"X18"

1-06
R5-1
30"X30"
DO NOT ENTER

1-07
R2-1
24"X30"
SPEED LIMIT
55

MATCHLINE 110+40 'EB'

2

N

MATCHLINE 118+50 'EB'

119+00WB
119+00EB
120+00WB
120+00EB
121+00WB
121+00EB
122+00WB
122+00EB
123+00WB
123+00EB
124+00WB
124+00EB
125+00EB
126+00EB

STH 28

1-08
R4-7
24"X30"
W5-56
18"X18"

1-09
SPEED LIMIT
55
R2-1
24"X30"

1-10
R5-1
30"X30"
DO NOT ENTER

1-11
ALTERNATE SOUTH
ALTERNATE NORTH
41 41
J2-2
48"X69"

1-12
COUNTY
TW
WEST SOUTH SOUTH
28 67 175
NORTH
67
175

1-13
W6-3
36"X36"

1-14
W2-6
30"X30"
15 MPH
W13-1
18"X18"

1-15
JCT JCT JCT
67 175 COUNTY TW
J1-3
72"X39"

1-16
Hwy 41 2
Kewaskum 11
D2-2
78"X24"

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PERMANENT SIGNING	SHEET 33	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\023201 - PERMANENT SIGNING & PAVEMENT MARKING\023201_PS.DWG
LAYOUT NAME - 023201_ps
PLOT DATE : 10/27/2021 1:25 PM PLOT BY : ARENSDORF, JAROD P PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

PROPOSED SIGN MOUNTED ON REMOVABLE TUBULAR STEEL POST, TOP OF BASE TO BE FLUSH WITH SURROUNDING GRADE

N

2-17 R5-1 30"X30" DO NOT ENTER

2-16 M1-5A 24"X24" COUNTY TW

2-15 D1-1 36"X18" COUNTY TW

2-14 R1-2 36"X31" YIELD

STH 67/175

MATCHLINE 215+50 'NB'

2-13 J1-3 72"X39" NORTH 67 NORTH 175 ALTERNATE 41 ALTERNATE

2-12 R1-2 36"X31" YIELD

111+00WB 35+00NW 112+00WB 34+00NW 113+00WB 33+00NW 32+00NW

CTH TW

114+00WB

111+00EB 112+00EB 61+00SW 113+00EB 62+00SW

MATCHLINE 110+40 'EB'

2-18 R6-2L 24"X30" ONE WAY

2-19 R1-2 36"X31" YIELD

2-20 R1-2 36"X31" YIELD

2-22

2-21

2-23

2-24

215+00SB 31+00NW 215+00NB 44+00NE

214+00SB 214+00NB 43+00NE

NORTH 67 NORTH 175

2-10 R1-2 36"X31" YIELD

2-11

2-09 R1-2 36"X31" YIELD

2-25

WEST 28 SOUTH 67 SOUTH 175

R6-1R 36"X12" ONE WAY

R6-4B 60"X24"

63+00SW

212+00SB 212+00NB

116+00WB 42+00NE

2-26 D1-2 60"X30" Theresa Lomira

MATCHLINE 118+50 'EB'

WEST 28 SOUTH 67 SOUTH 175 ALTERNATE 41 ALTERNATE

2-08 J4-4 96"X36"

R5-1 30"X30" DO NOT ENTER

2-07

MATCHLINE 210+60 'NB'

64+00SW 211+00SB STH 28/67/175 211+00NB 51+00SE

52+00SE 53+00SE 116+00EB STH 28 117+00WB 41+00NE 54+00SE 117+00EB 118+00WB 118+00EB

R1-2 36"X31" YIELD

2-02

R1-2 36"X31" YIELD

2-03

2-04 D1-1 42"X30" EAST 28

EAST 28 ALTERNATE 41 ALTERNATE

J4-2 48"X36"

2-05

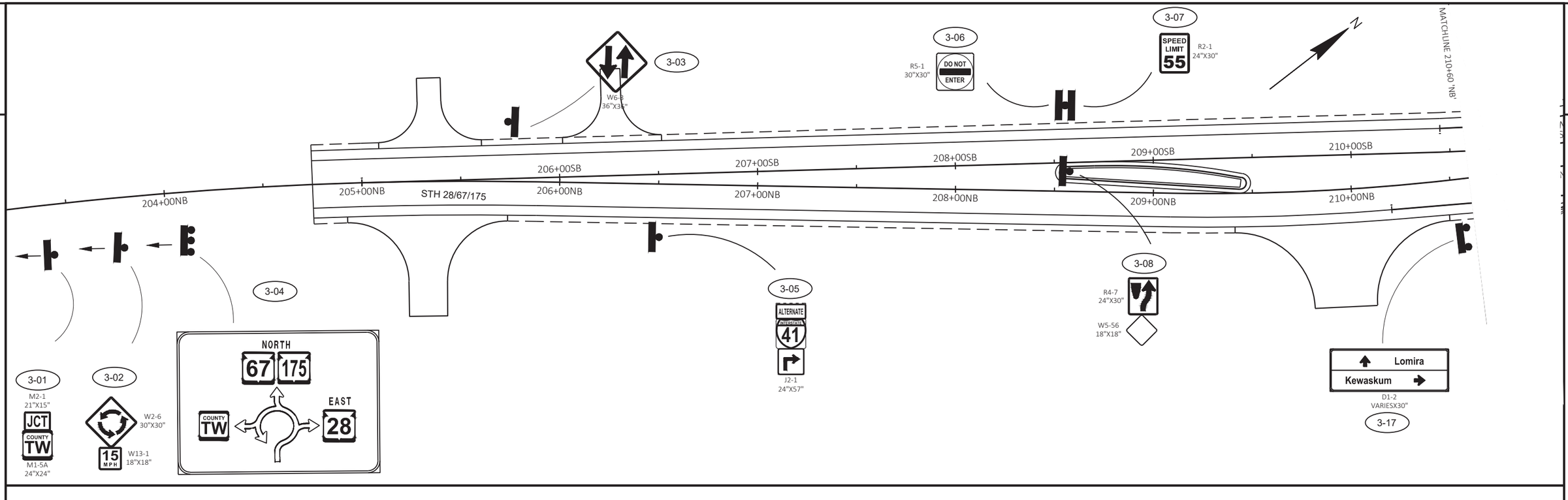
WRONG WAY R5-1A 36"X24"

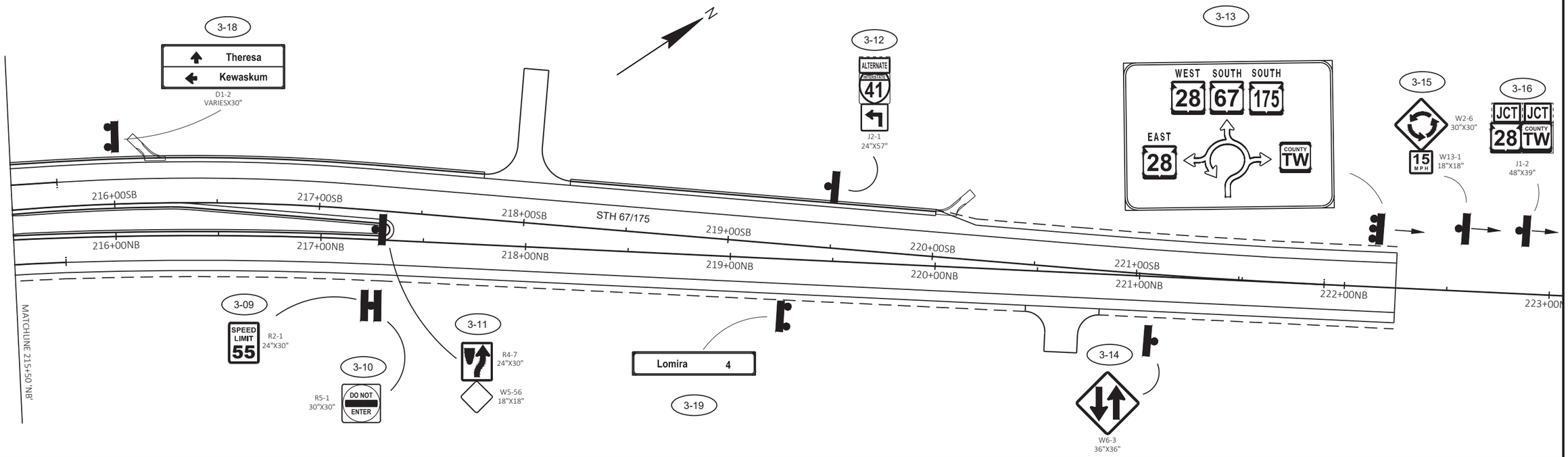
2-06

R4-7 24"X30"

2-01

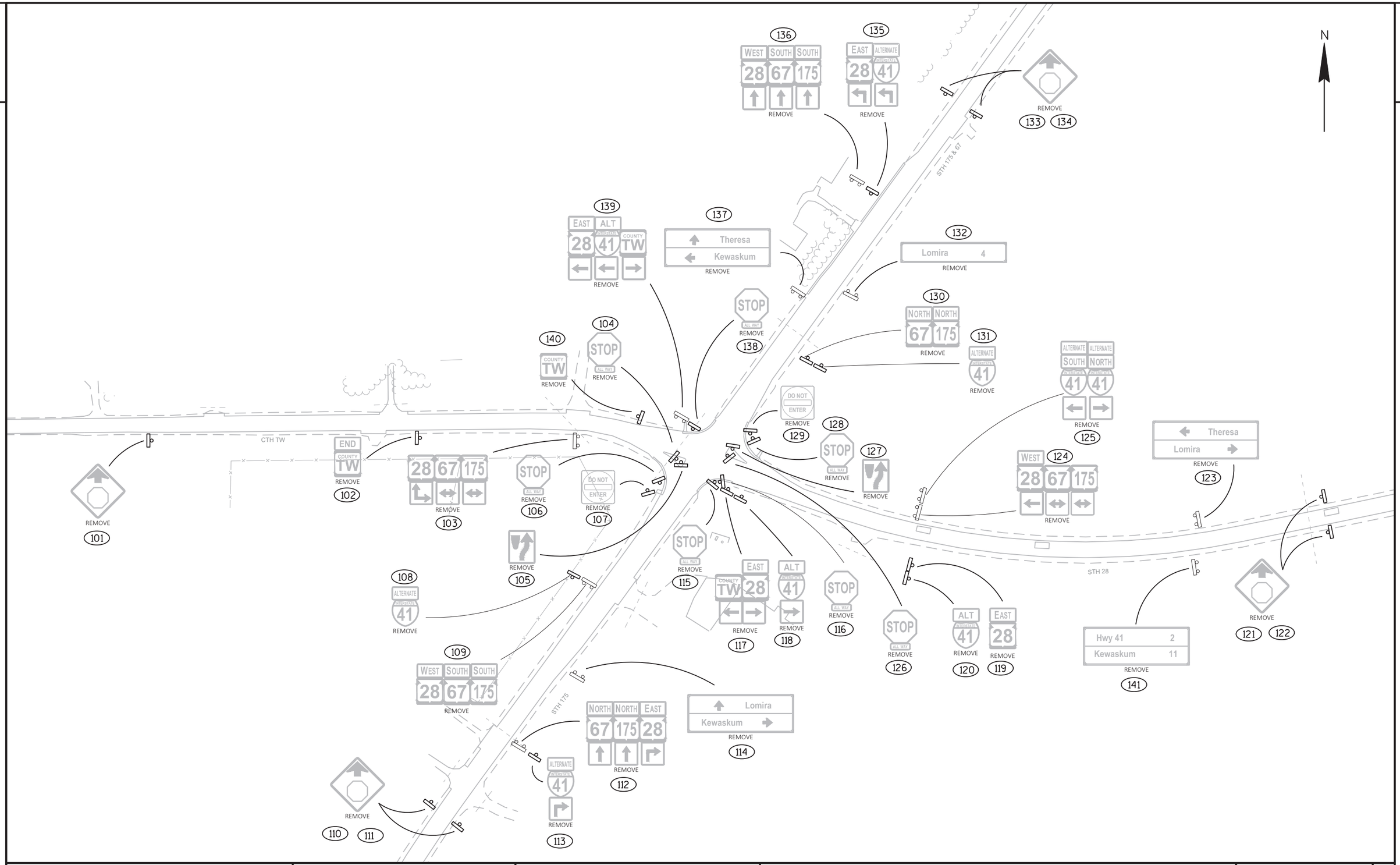
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PERMANENT SIGNING	SHEET 34	E


3-01
M2-1
21"X15"
JCT
COUNTY
TW
M1-5A
24"X24"
3-02
W2-6
30"X30"
15
MPH
W13-1
18"X18"
3-04
NORTH
67
175
COUNTY
TW
EAST
28
204+00NB
205+00NB
206+00SB
206+00NB
207+00SB
207+00NB
208+00SB
208+00NB
209+00SB
209+00NB
210+00SB
210+00NB
STH 28/67/175
3-03
W6-3
36"X36"
3-06
R5-1
30"X30"
DO NOT
ENTER
3-07
SPEED
LIMIT
55
R2-1
24"X30"
3-05
ALTERNATE
INTERSTATE
41
J2-1
24"X57"
3-08
R4-7
24"X30"
W5-56
18"X18"
MATCHLINE 210+60 'NB'
3-17
Lomira
Kewaskum
D1-2
VARIESX30"


3-18
Theresa
Kewaskum
D1-2
VARIESX30"
216+00SB
216+00NB
217+00SB
217+00NB
218+00SB
218+00NB
STH 67/175
219+00SB
219+00NB
220+00SB
220+00NB
221+00SB
221+00NB
222+00NB
223+00N
3-12
ALTERNATE
INTERSTATE
41
J2-1
24"X57"
3-13
WEST
28
SOUTH
67
SOUTH
175
EAST
28
COUNTY
TW
3-15
W2-6
30"X30"
15
MPH
W13-1
18"X18"
3-16
JCT
28
JCT
COUNTY
TW
J1-2
48"X39"
3-09
SPEED
LIMIT
55
R2-1
24"X30"
3-10
R5-1
30"X30"
DO NOT
ENTER
3-11
R4-7
24"X30"
W5-56
18"X18"
MATCHLINE 215+50 'NB'
Lomira 4
3-19
3-14
W6-3
36"X36"

2

N



PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	EXISTING SIGNING	SHEET 36	E

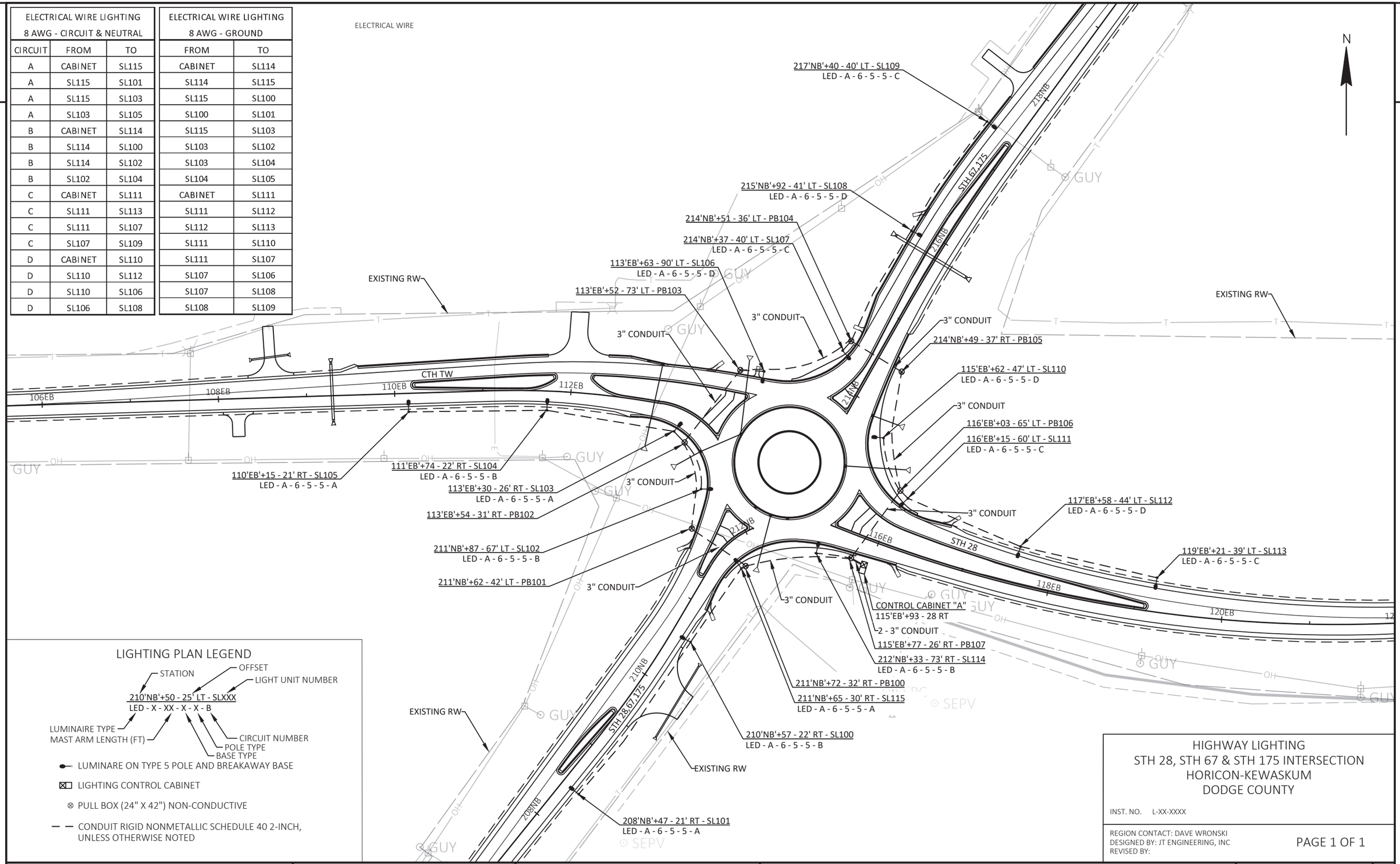
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\023202 - EXISTING SIGNING\023202_ES.DWG
LAYOUT NAME - 023202_es

PLOT DATE : 9/8/2021 1:01 PM PLOT BY : ARENSDORF, JAROD P PLOT NAME : PLOT SCALE : Custom

ELECTRICAL WIRE LIGHTING 8 AWG - CIRCUIT & NEUTRAL		
CIRCUIT	FROM	TO
A	CABINET	SL115
A	SL115	SL101
A	SL115	SL103
A	SL103	SL105
B	CABINET	SL114
B	SL114	SL100
B	SL114	SL102
B	SL102	SL104
C	CABINET	SL111
C	SL111	SL113
C	SL111	SL107
C	SL107	SL109
D	CABINET	SL110
D	SL110	SL112
D	SL110	SL106
D	SL106	SL108

ELECTRICAL WIRE LIGHTING 8 AWG - GROUND	
FROM	TO
CABINET	SL114
SL114	SL115
SL115	SL100
SL100	SL101
SL115	SL103
SL103	SL102
SL103	SL104
SL104	SL105
CABINET	SL111
SL111	SL112
SL112	SL113
SL111	SL110
SL111	SL107
SL107	SL106
SL107	SL108
SL108	SL109

ELECTRICAL WIRE



LIGHTING PLAN LEGEND

STATION, OFFSET, LIGHT UNIT NUMBER

210'NB'+50 - 25' LT - SLXXX

LED - X - XX - X - X - B

LUMINAIRE TYPE / MAST ARM LENGTH (FT)

CIRCUIT NUMBER

POLE TYPE

BASE TYPE

- LUMINARE ON TYPE 5 POLE AND BREAKAWAY BASE
- LIGHTING CONTROL CABINET
- ⊗ PULL BOX (24" X 42") NON-CONDUCTIVE
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH, UNLESS OTHERWISE NOTED

HIGHWAY LIGHTING
STH 28, STH 67 & STH 175 INTERSECTION
HORICON-KEWASKUM
DODGE COUNTY

INST. NO. L-XX-XXXX

REGION CONTACT: DAVE WRONSKI
DESIGNED BY: JT ENGINEERING, INC
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	LIGHTING PLAN	SHEET 37	E

FILE NAME : X:\PROJECTS\DODGE\180067 - 4060-05-02 STH 28 RAB INTERSECTION (MENTORING)\DESIGN\C3D\SHEETSPLAN\023601-LP.DWG
LAYOUT NAME - 023601-lp

PLOT DATE : 10/11/2021 8:08 AM PLOT BY : JIM PAVELSKI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

STH 28 DETOUR ROUTE

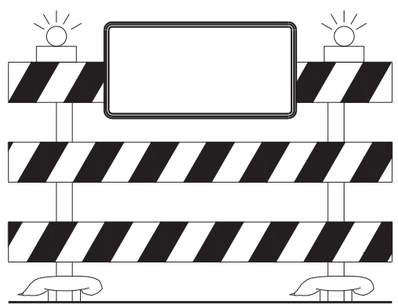
STH 67/175 DETOUR ROUTE

CTH TW DETOUR ROUTE

NOTE: SEE SDD 15C02-A BARRICADES AND SIGNS FOR MAINLINE CLOSURES FOR ADDITIONAL INFORMATION.

FMS SIGN TO BE ATTACHED TO TYPE III

WIS 28 CLOSED
AT WIS 175
FOLLOW WIS 33



DETAIL 1
DETAIL 2
DETAIL 3
DETAIL 4
DETAIL 5
DETAIL 6
DETAIL 7
DETAIL 8
DETAIL 9
DETAIL 10
DETAIL 11
DETAIL 12
DETAIL 13
DETAIL 14
DETAIL 15
DETAIL 16
DETAIL 17
DETAIL 18

Horicon
Mayville
Kekoskee
Leroy
Knowles
Farmersville
LOMIRA
Lomira
Theresa
Theresa Sta.
THERESA
Neda
Addison
Allenton
Nenno
Kohlville
Wayne
WAYNE
ADDISON
Ashford
ASHFORD
Lake Bernice

PROJECT NO: 4060-05-72 | HWY: STH 28 | COUNTY: DODGE | DETOUR PLAN OVERVIEW | SHEET 38 E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\027001 - DETOURS\027001_DE.DWG
LAYOUT NAME - PLAN OVERVIEW

PLOT DATE : 10/6/2021 7:21 AM | PLOT BY : ARENSDORF, JAROD P | PLOT NAME : | PLOT SCALE : Custom

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN WITH SINGLE/DOUBLE POST
- NEW SIGN WITH SINGLE/DOUBLE POST
- EXISTING SIGN (TO REMAIN UNCHANGED)
- NEW SIGN
- COVER EXISTING SIGN
- TYPE III BARRICADE WITH SIGN ATTACHED

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

N

67

33

M4-8
24"X12"
DETOUR
NORTH EAST SOUTH
67 33 67
MO6-1
21"X21"

ACCESS TO LOCAL BUSINESSES

SOUTH
67
M3-3
24"X12"
MO6-1
21"X21"

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

M4-8A
24"X18"
END DETOUR
SOUTH WEST
67 33

NORTH
67
M3-1
24"X12"
M1-6
24"X24"
DETOUR AHEAD
W20-2A

M4-8
24"X12"
DETOUR
NORTH EAST SOUTH
67 33 67
MO6-1
21"X21"

M4-8
24"X12"
M3-1
24"X12"
M1-6
24"X24"
DETOUR
NORTH
67

DETOUR
NEXT 24 MILES
G20-51
60"X24"

M4-8
24"X12"
DETOUR
WEST NORTH EAST
33 67 33
MO6-1
21"X21"

M4-8
24"X12"
DETOUR
WEST NORTH EAST
33 67 33
MO5-1R
21"X21"

NORTH
67
M3-1
24"X12"
M1-6
24"X24"
DETOUR AHEAD
W20-2A

NORTH
67
M3-1
24"X12"
M1-6
24"X24"
ROAD CLOSED AHEAD
W20-3A

JCT
33

DETAIL #1

STH 33 & STH 67 INTERSECTION

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	DETOUR ROUTE - DETAIL 1	SHEET 39	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\027001 - DETOURS\027001_DE.DWG
LAYOUT NAME - DETAIL 1

PLOT DATE : 10/6/2021 7:21 AM PLOT BY : ARENSDORF, JAROD P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

AY

LEGEND

- EXISTING SIGN WITH SINGLE/DOUBLE POST
- NEW SIGN WITH SINGLE/DOUBLE POST
- EXISTING SIGN (TO REMAIN UNCHANGED)
- NEW SIGN
- COVER EXISTING SIGN

N

2

M4-8 24"X12"
M3-3 24"X12"
M1-6 24"X24"

DETOUR
SOUTH
67

33

33

M4-8 24"X12"
M3-1 24"X12"
M1-6 24"X24"

DETOUR
NORTH
67

DETAIL #2

CTH AY & STH 33 INTERSECTION

AY

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	DETOUR ROUTE - DETAIL 2	SHEET 40	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\027001 - DETOURS\027001_DE.DWG
LAYOUT NAME - DETAIL 2

PLOT DATE : 10/6/2021 7:21 AM PLOT BY : ARENSDORF, JAROD P PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

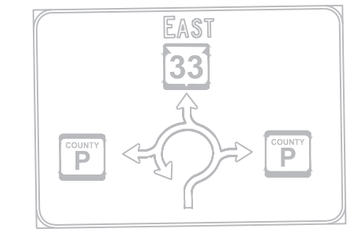
2

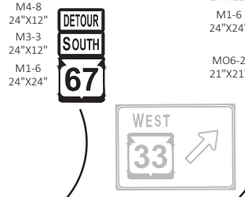
P

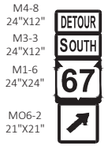
N

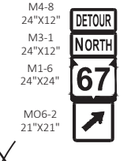
LEGEND

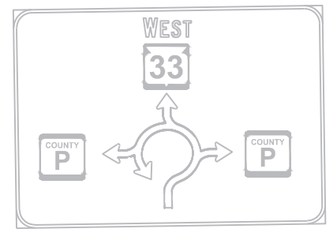
- EXISTING SIGN WITH SINGLE/DOUBLE POST
- NEW SIGN WITH SINGLE/DOUBLE POST
- EXISTING SIGN (TO REMAIN UNCHANGED)
- NEW SIGN
- COVER EXISTING SIGN
- TYPE III BARRICADE WITH SIGN ATTACHED

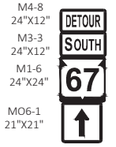




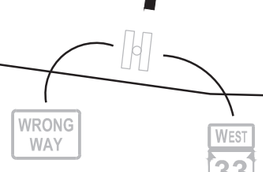








33



33

P

DETAIL #3

CTH P & STH 33 ROUNDABOUT

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	DETOUR ROUTE - DETAIL 3	SHEET 41	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\027001 - DETOURS\027001_DE.DWG
LAYOUT NAME - DETAIL 3

PLOT DATE : 10/6/2021 7:21 AM PLOT BY : ARENSDORF, JAROD P PLOT NAME : PLOT SCALE : Custom

2

LEGEND

- EXISTING SIGN WITH SINGLE/DOUBLE POST
- NEW SIGN WITH SINGLE/DOUBLE POST
- EXISTING SIGN (TO REMAIN UNCHANGED)
- NEW SIGN
- COVER EXISTING SIGN
- TYPE III BARRICADE WITH SIGN ATTACHED

N

33

175

JCT 175

JCT 33

M4-8 24"X12" DETOUR EAST NORTH NORTH 28 67 175 M3-2 24"X12" M3-1 24"X12" M1-6 24"X24" MO5-1L 21"X21"

EAST 33 WEST 33

M4-8 24"X12" DETOUR SOUTH 67 M3-3 24"X12" M1-6 24"X24"

WEST 33

M4-8 24"X12" DETOUR NORTH SOUTH 175 175 MO6-1 21"X21"

M4-8 24"X12" DETOUR EAST NORTH 28 67 M3-2 24"X12" M3-1 24"X12" M1-6 24"X24" MO6-1 21"X21"

M4-8 24"X12" DETOUR EAST NORTH NORTH 28 67 175 M3-2 24"X12" M3-1 24"X12" M1-6 24"X24" MO6-1 21"X21"

EAST 33 33 WEST

M4-8 24"X12" DETOUR WEST 28 M3-4 24"X12" M1-6 24"X24"

M4-8 24"X12" DETOUR WEST 28 M3-4 24"X12" M1-6 24"X24" MO6-1 21"X21"

SOUTH 175

M4-8 24"X12" DETOUR SOUTH WEST 67 28 M3-3 24"X12" M3-4 24"X12" M1-6 24"X24" MO6-1 21"X21" MO5-1R 21"X21"

M4-8A 24"X18" END DETOUR

SOUTH 175

M3-2 24"X12" EAST NORTH 28 175 M3-1 24"X12" M1-6 24"X24"

DETOUR AHEAD W20-2A

M4-8 24"X12" DETOUR EAST NORTH 28 67 M3-2 24"X12" M3-1 24"X12" M1-6 24"X24" MO6-1 21"X21"

M4-8 24"X12" DETOUR NORTH SOUTH 175 175 MO6-1 21"X21"

M4-8 24"X12" DETOUR EAST NORTH NORTH 28 67 175 M3-2 24"X12" M3-1 24"X12" M1-6 24"X24"

DETOUR NEXT 11 MILES G20-51 60"X24"

WEST 33 EAST 33

M4-8 24"X12" DETOUR EAST NORTH NORTH 28 67 175 M3-2 24"X12" M3-1 24"X12" M1-6 24"X24" MO6-1 21"X21"

M4-8 24"X12" DETOUR EAST NORTH NORTH 28 67 175 M3-2 24"X12" M3-1 24"X12" M1-6 24"X24" MO5-1R 21"X21"

WEST 33 EAST 33

M3-2 24"X12" EAST NORTH NORTH 28 67 175 M3-1 24"X12" M1-6 24"X24"

DETOUR AHEAD W20-2A

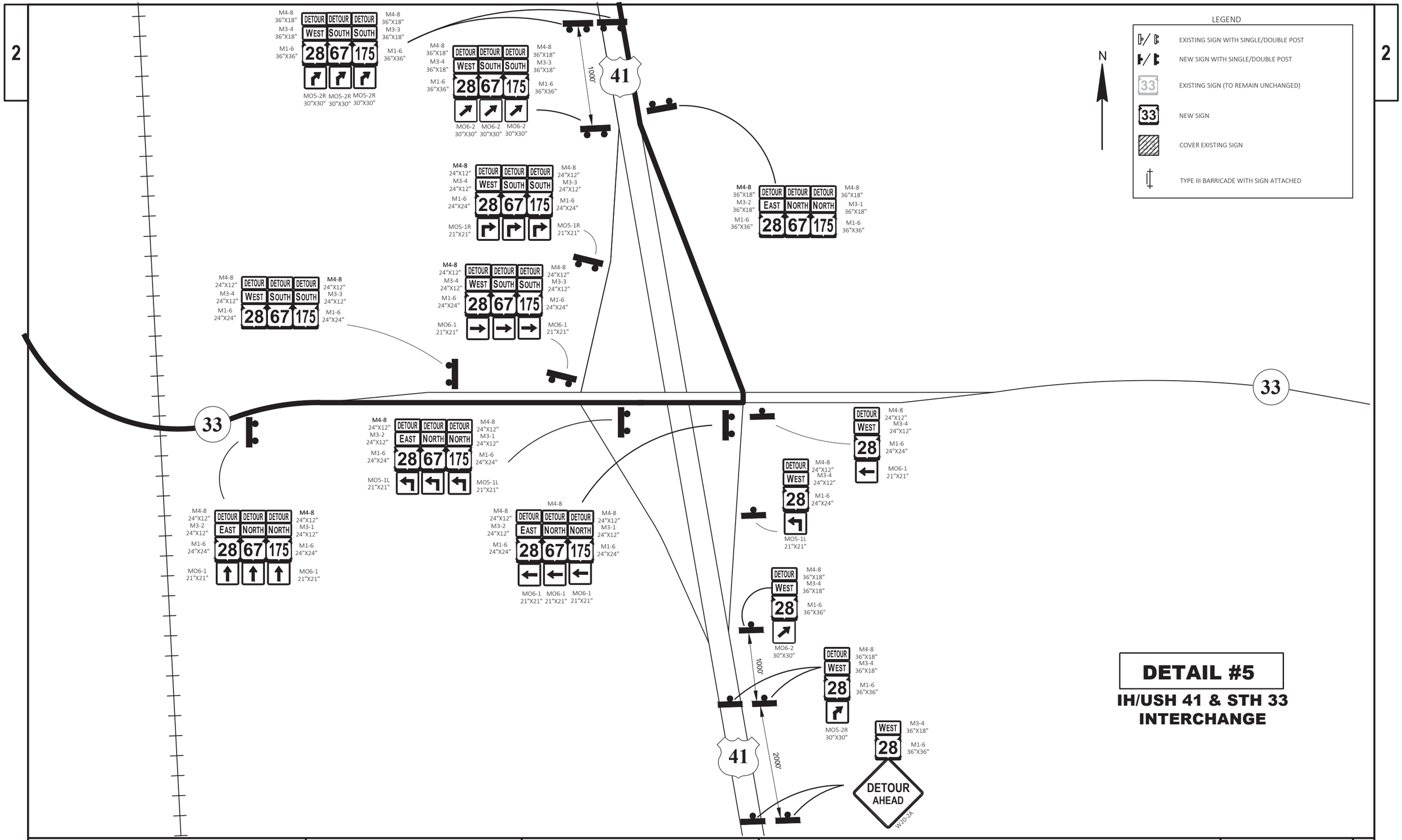
DETAIL #4

STH 33 & STH 175 Intersection

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	DETOUR ROUTE - DETAIL 4	SHEET 42	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\027001 - DETOURS\027001_DE.DWG
LAYOUT NAME - DETAIL 4

PLOT DATE : 10/6/2021 7:21 AM PLOT BY : ARENSDORF, JAROD P PLOT NAME : PLOT SCALE : 1 IN:50 FT



PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	DETOUR ROUTE - DETAIL 5	SHEET 43	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\027001 - DETOURS\027001_DE.DWG
LAYOUT NAME - DETAIL 5

PLOT DATE : 10/6/2021 7:21 AM PLOT BY : ARENSDORF, JAROD P PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

LEGEND

- EXISTING SIGN WITH SINGLE/DOUBLE POST
- NEW SIGN WITH SINGLE/DOUBLE POST
- EXISTING SIGN (TO REMAIN UNCHANGED)
- NEW SIGN
- COVER EXISTING SIGN
- TYPE III BARRICADE WITH SIGN ATTACHED

N

41

D

M4-8 36"X18" / M3-2 36"X18" / M1-6 36"X36": DETOUR DETOUR DETOUR / EAST NORTH NORTH / 28 67 175 — M4-8 36"X18" / M3-1 36"X18" / M1-6 36"X36"

M4-8 24"X12" / M3-2 24"X12" / M1-6 24"X24" / MO6-1 21"X21": DETOUR DETOUR DETOUR / EAST NORTH NORTH / 28 67 175 / → → → — M4-8 24"X12" / M3-1 24"X12" / M1-6 24"X24" / MO6-1 21"X21"

M4-8 24"X12" / M3-2 24"X12" / M1-6 24"X24" / MO5-1R 21"X21": DETOUR DETOUR DETOUR / EAST NORTH NORTH / 28 67 175 / ↱ ↱ ↱ — M4-8 24"X12" / M3-1 24"X12" / M1-6 24"X24" / MO5-1R 21"X21"

M3-2 24"X12" / M1-6 24"X24": EAST NORTH NORTH / 28 67 175 — M3-1 24"X12" / M1-6 24"X24"

DETOUR AHEAD (W20-2A)

M4-8 36"X18" / M3-4 36"X18" / M1-6 36"X36": DETOUR DETOUR DETOUR / WEST SOUTH SOUTH / 28 67 175 — M4-8 36"X18" / M3-3 36"X18" / M1-6 36"X36"

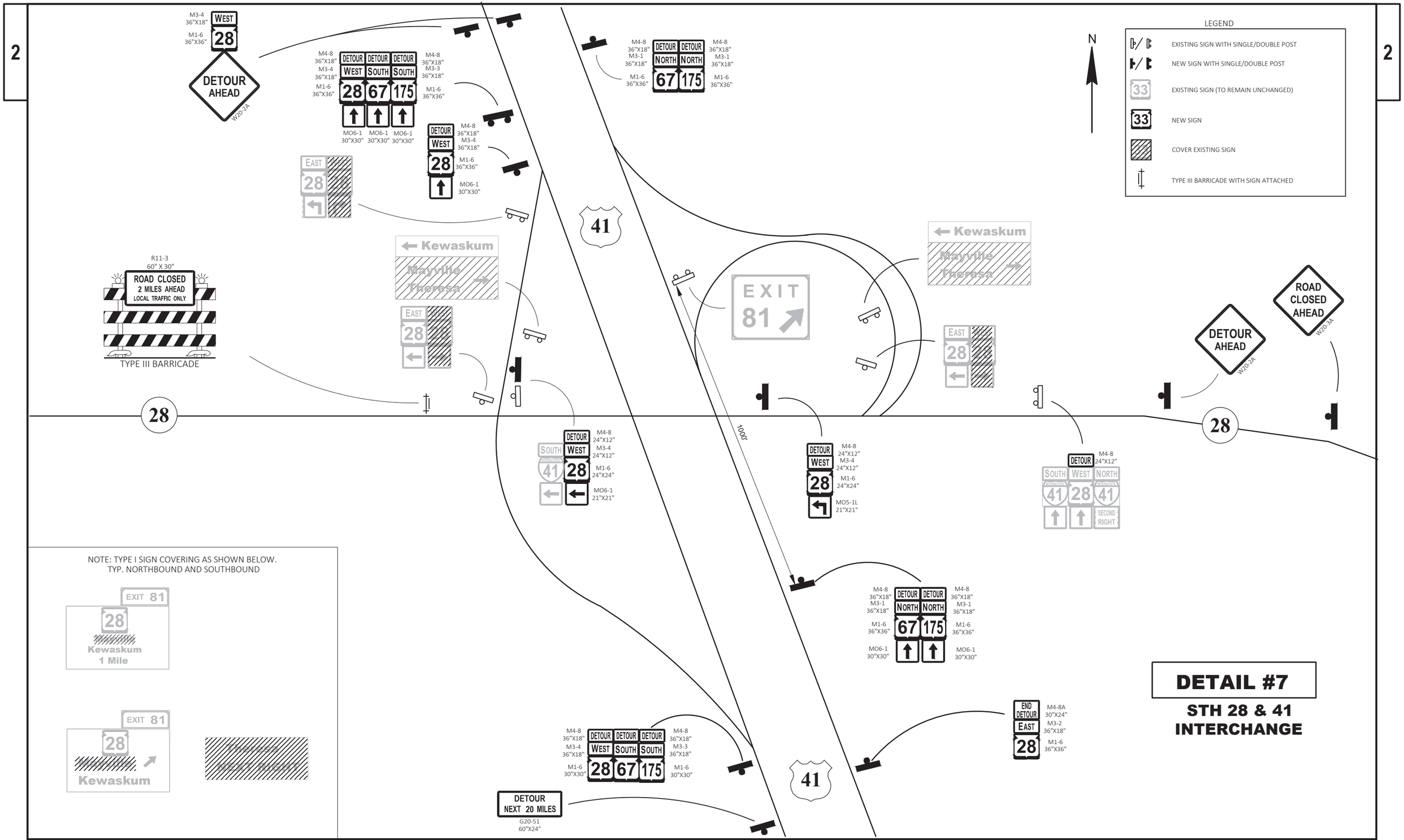
M4-8 36"X18" / M3-2 36"X18" / M1-6 36"X36" / MO6-1 30"X30": DETOUR DETOUR DETOUR / EAST NORTH NORTH / 28 67 175 / ↑ ↑ ↑ — M4-8 36"X18" / M3-1 36"X18" / M1-6 36"X36" / MO6-1 30"X30"

DETAIL #6

CTH D & 41 INTERSTATE

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	DETOUR ROUTE - DETAIL 6	SHEET 44	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\027001 - DETOURS\027001_DE.DWG
LAYOUT NAME - DETAIL 6
PLOT DATE : 10/6/2021 7:21 AM
PLOT BY : ARENSDORF, JAROD P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42



NOTE: TYPE I SIGN COVERING AS SHOWN BELOW.
TYP. NORTHBOUND AND SOUTHBOUND

DETAIL #7

STH 28 & 41 INTERCHANGE

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	DETOUR ROUTE - DETAIL 7	SHEET 45	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\027001 - DETOURS\027001_DE.DWG
LAYOUT NAME - DETAIL 7
PLOT DATE : 10/6/2021 7:21 AM
PLOT BY : ARENSDORF, JAROD P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN WITH SINGLE/DOUBLE POST
- NEW SIGN WITH SINGLE/DOUBLE POST
- EXISTING SIGN (TO REMAIN UNCHANGED)
- NEW SIGN
- COVER EXISTING SIGN
- TYPE III BARRICADE WITH SIGN ATTACHED

N

41

67

M3-3 36"X18" | SOUTH SOUTH | M3-3 36"X18"
M1-6 36"X36" | 67 175 | M1-6 36"X36"
DETOUR AHEAD W20-2A

M4-8 36"X18" | DETOUR DETOUR | M4-8 36"X18"
M3-3 36"X18" | SOUTH SOUTH | M3-3 36"X18"
M1-6 36"X36" | 67 175 | M1-6 36"X36"
MO6-1 30"X30" | MO6-1 30"X30"

M4-8 24"X12" | DETOUR DETOUR | M4-8 24"X12"
M3-3 24"X12" | SOUTH SOUTH | M3-3 24"X12"
M1-6 24"X24" | 67 175 | M1-6 24"X24"
MO6-1 21"X21" | MO6-1 21"X21"

NORTH 67

M4-8 24"X12" | DETOUR DETOUR SOUTH | M4-8 24"X12"
M3-3 24"X12" | SOUTH NORTH | M3-1 24"X12"
M1-6 24"X24" | 67 175 175 | M1-6 24"X24"
MO5-1L 21"X21" | MO6-1 21"X21"

M3-3 24"X12" | SOUTH SOUTH | M3-3 24"X12"
M1-6 24"X24" | 67 175 | M1-6 24"X24"
DETOUR AHEAD W20-2A

M3-3 24"X12" | SOUTH SOUTH | M3-3 24"X12"
M1-6 24"X24" | 67 175 | M1-6 24"X24"
ROAD CLOSED AHEAD W20-3A

M4-8 24"X12" | DETOUR | M4-8 24"X12"
M3-1 24"X12" | NORTH | M1-6 24"X24"
M1-6 24"X24" | 175 |

M4-8 24"X12" | DETOUR DETOUR | M4-8 24"X12"
M3-3 24"X12" | SOUTH SOUTH | M3-3 24"X12"
M1-6 24"X24" | 67 175 | M1-6 24"X24"
MO5-1R 21"X21" | MO5-1R 21"X21"

M4-8 24"X12" | DETOUR DETOUR | M4-8 24"X12"
M3-3 24"X12" | SOUTH SOUTH | M3-3 24"X12"
M1-6 24"X24" | 67 175 | M1-6 24"X24"
MO6-1 21"X21" | MO6-1 21"X21"

NORTH 67

DETOUR NORTH 175 | M4-8 24"X12" | M3-1 24"X12" | M1-6 24"X24" | MO6-1 21"X21"

DETOUR NORTH 175 | M4-8 24"X12" | M3-1 24"X12" | M1-6 24"X24" | MO5-1L 21"X21"

M4-8 36"X18" | DETOUR DETOUR | M4-8 36"X18"
M3-3 36"X18" | SOUTH SOUTH | M3-3 36"X18"
M1-6 36"X36" | 67 175 | M1-6 36"X36"

DETOUR NORTH 175 | M4-8 36"X18" | M3-1 36"X18" | M1-6 36"X36" | MO6-2 30"X30"

DETOUR NORTH 175 | M4-8 36"X18" | M3-1 36"X18" | M1-6 36"X36" | MO5-2R 30"X30"

END DETOUR NORTH 67 | M4-8A 30"X24" | M3-1 36"X18" | M1-6 36"X36"

DETAIL #8

STH 67 & 41 INTERCHANGE

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	DETOUR ROUTE - DETAIL 8	SHEET 46	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\027001 - DETOURS\027001_DE.DWG
LAYOUT NAME - DETAIL 8

PLOT DATE : 10/6/2021 7:21 AM PLOT BY : ARENSDORF, JAROD P PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

LEGEND

- EXISTING SIGN WITH SINGLE/DOUBLE POST
- NEW SIGN WITH SINGLE/DOUBLE POST
- EXISTING SIGN (TO REMAIN UNCHANGED)
- NEW SIGN
- COVER EXISTING SIGN
- TYPE III BARRICADE WITH SIGN ATTACHED

N

M3-3 24"X12" | SOUTH | SOUTH | M3-3 24"X12"
M1-6 24"X24" | 67 | 175 | M1-6 24"X24"
DETOUR AHEAD
W20-2A

M3-3 24"X12" | SOUTH | SOUTH | M3-3 24"X12"
M1-6 24"X24" | 67 | 175 | M1-6 24"X24"
ROAD CLOSED AHEAD
W20-3A

M4-8 24"X12" | DETOUR
SOUTH
NORTH 67
67 175
MO5-1L 21"X21"

175

M4-8 24"X12" | DETOUR | DETOUR
M3-3 24"X12" | SOUTH | SOUTH | M3-3 24"X12"
M1-6 24"X24" | 67 | 175 | M1-6 24"X24"
MO6-1 21"X21" | MO6-1 21"X21"

END DETOUR
NORTH
175
M4-8A 24"X18"

H

67

H

M3-3 24"X12" | SOUTH | SOUTH | M3-3 24"X12"
M1-6 24"X24" | 67 | 175 | M1-6 24"X24"
DETOUR AHEAD
W20-2A

M4-8 24"X12" | DETOUR | DETOUR
M3-3 24"X12" | SOUTH | SOUTH | M3-3 24"X12"
M1-6 24"X24" | 67 | 175 | M1-6 24"X24"
MO6-1 21"X21" | MO6-1 21"X21"

R11-3
60" X 30"
ROAD CLOSED
3 1/2 MILES AHEAD
LOCAL TRAFFIC ONLY
TYPE III BARRICADE

M4-8 24"X12" | DETOUR | DETOUR
M3-3 24"X12" | SOUTH | SOUTH | M3-3 24"X12"
M1-6 24"X24" | 67 | 175 | M1-6 24"X24"

DETOUR
NEXT 16 MILES
G20-51
60"X24"

67

175

DETAIL #9

STH 175 & STH 67 INTERSECTION

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	DETOUR ROUTE - DETAIL 9	SHEET 47	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\027001 - DETOURS\027001_DE.DWG
LAYOUT NAME - DETAIL 9

PLOT DATE : 10/6/2021 7:21 AM PLOT BY : ARENSDORF, JAROD P PLOT NAME : PLOT SCALE : 1 IN:50 FT

PCMS MESSAGES

FRAME 1	ROAD CLOSED BEGINS
FRAME 2	'DAY' XX/XX

7 DAY PREWARN

LEGEND

- EXISTING SIGN WITH SINGLE/DOUBLE POST
- NEW SIGN WITH SINGLE/DOUBLE POST
- EXISTING SIGN (TO REMAIN UNCHANGED)
- NEW SIGN
- COVER EXISTING SIGN
- TYPE III BARRICADE WITH SIGN ATTACHED
- * Previewing Only

N

67
175

CONSTRUCTION ZONE SEE S.D.D. 15C2 B "BARRICADES AND SIGNS FOR MAINLINE CLOSURES"

PCMS BOARD *

PCMS BOARD *

PCMS BOARD *

TW

28

PCMS BOARD *

28
67
175

DETAIL #10

CTH TW, STH 67, STH 175 & STH 28 WORK ZONE

2

2

LEGEND

- EXISTING SIGN WITH SINGLE/DOUBLE POST
- NEW SIGN WITH SINGLE/DOUBLE POST
- EXISTING SIGN (TO REMAIN UNCHANGED)
- NEW SIGN
- COVER EXISTING SIGN
- TYPE III BARRICADE WITH SIGN ATTACHED

N

175

28

67

WEST 28 SOUTH 67

EAST 28 NORTH 175

M3-2 24"X12" EAST NORTH NORTH M3-1 24"X12"
M1-6 24"X24" 28 67 175 M1-6 24"X24"
DETOUR AHEAD W20-2A

M4-8 24"X12" DETOUR DETOUR M4-8 24"X12"
EAST NORTH
28 67
MO5-1R 21"X21" MO5-1R 21"X21"

M4-8 24"X12" DETOUR NORTH SOUTH
175 175
MO5-1R 21"X21"

M4-8 24"X12"
M4-8 24"X12" DETOUR DETOUR DETOUR M4-8 24"X12"
M3-2 24"X12" EAST NORTH NORTH M3-1 24"X12"
M1-6 24"X24" 28 67 175 M1-6 24"X24"
MO6-1 21"X21" MO6-1 21"X21"

M4-8 24"X12"
M4-8 24"X12" DETOUR DETOUR DETOUR M4-8 24"X12"
M3-2 24"X12" EAST NORTH NORTH M3-1 24"X12"
M1-6 24"X24" 28 67 175 M1-6 24"X24"

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

END DETOUR M4-8A 24"X18"
WEST M3-4 24"X12"
28 M1-6 24"X24"

DETAIL #11

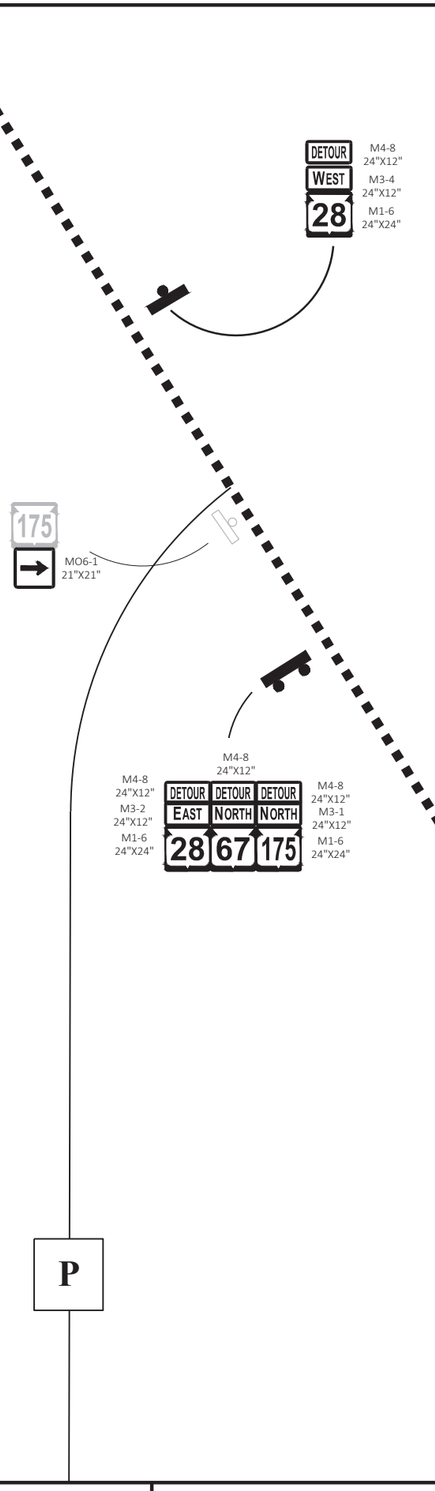
STH 28, STH 67 & STH 175 INTERSECTION

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	DETOUR ROUTE - DETAIL 11	SHEET 49	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\027001 - DETOURS\027001_DE.DWG
LAYOUT NAME - DETAIL 11

PLOT DATE : 10/6/2021 7:21 AM PLOT BY : ARENSDORF, JAROD P PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



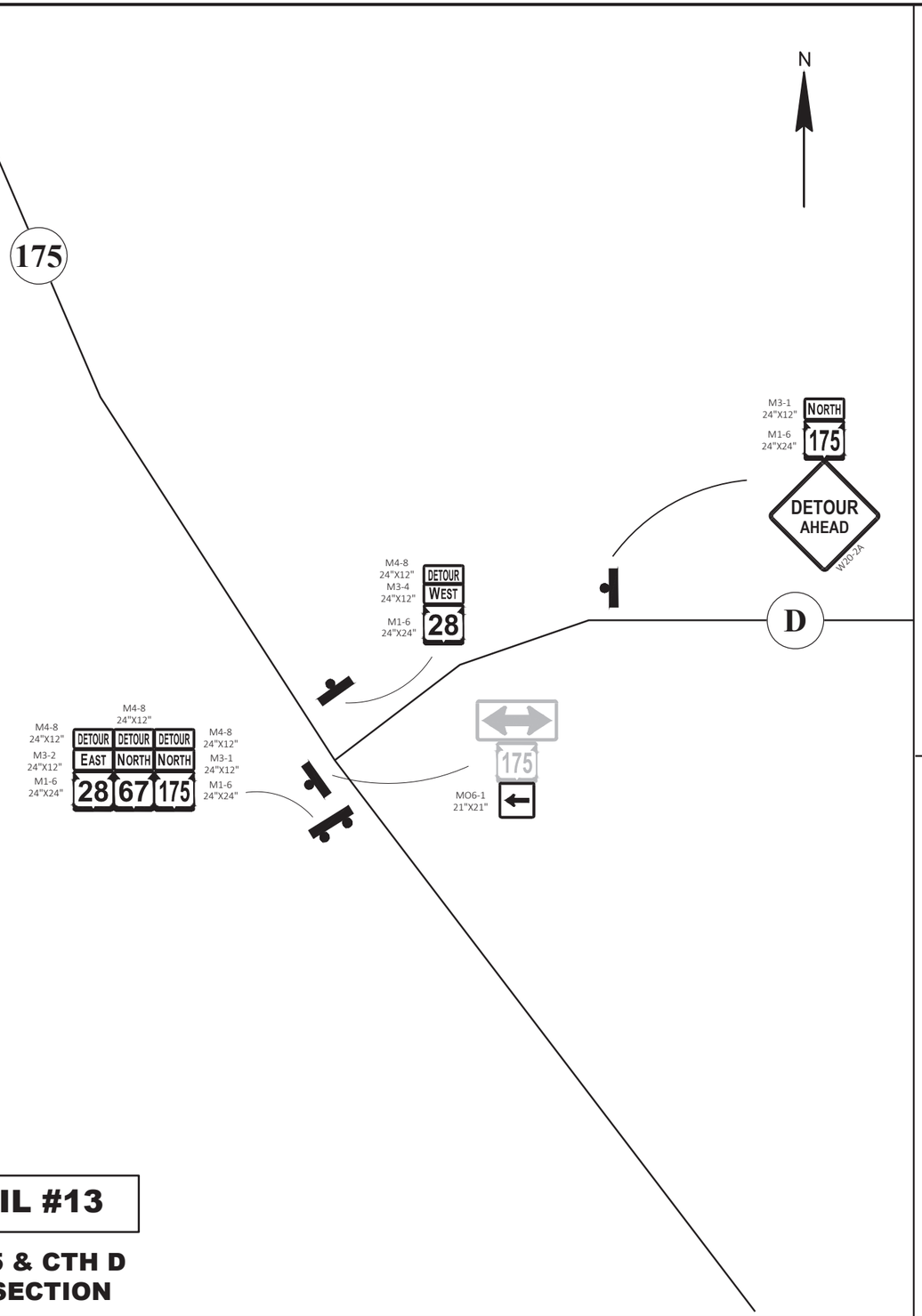
LEGEND

- EXISTING SIGN WITH SINGLE/DOUBLE POST
- NEW SIGN WITH SINGLE/DOUBLE POST
- EXISTING SIGN (TO REMAIN UNCHANGED)
- NEW SIGN
- COVER EXISTING SIGN
- TYPE III BARRICADE WITH SIGN ATTACHED

DETAIL #12

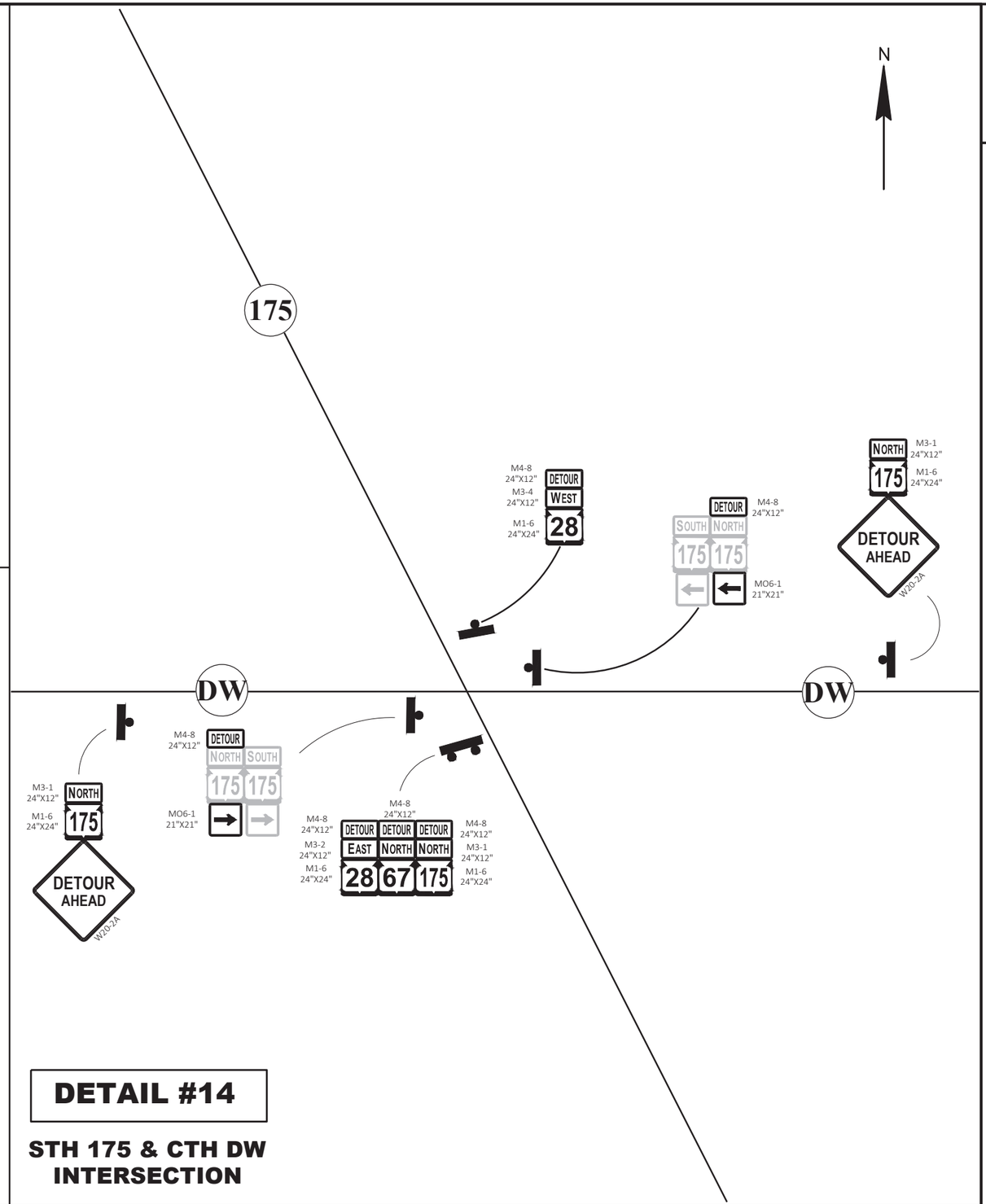
CTH P & STH 175 INTERSECTION

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	DETOUR ROUTE - DETAIL 12	SHEET 50	E



DETAIL #13

STH 175 & CTH D INTERSECTION



DETAIL #14

STH 175 & CTH DW INTERSECTION

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	DETOUR ROUTE - DETAIL 13 & 14	SHEET 51	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\027001 - DETOURS\027001_DE.DWG
LAYOUT NAME - DETAIL 13 & 14

PLOT DATE : 10/6/2021 7:21 AM PLOT BY : ARENSDORF, JAROD P PLOT NAME : PLOT SCALE : 1 IN:10 FT

2

2

LEGEND

- EXISTING SIGN WITH SINGLE/DOUBLE POST
- NEW SIGN WITH SINGLE/DOUBLE POST
- EXISTING SIGN (TO REMAIN UNCHANGED)
- NEW SIGN
- COVER EXISTING SIGN
- TYPE III BARRICADE WITH SIGN ATTACHED

N

AY

TW

TW

AY

NORTH COUNTY AY

DETOUR COUNTY TW
M4-8 24"X12"
M1-5A 24"X24"

COUNTY TW
MO6-1 21"X21"

FMS ATTACHED TO TYPE III
FMS 60" X 30"
ROAD CLOSED AT HWY 175

ROAD CLOSED AHEAD W20-3A

DETOUR AHEAD W20-2A

M4-8 24"X12"
M1-5A 24"X24"
M6-4 21"X21"
DETOUR COUNTY TW

M4-8 24"X12"
M1-5A 24"X24"
DETOUR COUNTY TW

SOUTH COUNTY AY

COUNTY TW
MO6-1 21"X21"

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

DETAIL #15

CTH AY & CTH TW INTERSECTION

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	DETOUR ROUTE - DETAIL 15	SHEET 52	E

2

LEGEND

- EXISTING SIGN WITH SINGLE/DOUBLE POST
- NEW SIGN WITH SINGLE/DOUBLE POST
- EXISTING SIGN (TO REMAIN UNCHANGED)
- NEW SIGN

N

AY

AH

M4-8 24"X12" DETOUR COUNTY TW
M1-5A 24"X24"

COUNTY AH

M4-8 24"X12" DETOUR COUNTY TW
M1-5A 24"X24"
MO6-1 21"X21"

AY

M4-8 24"X12" DETOUR COUNTY TW
M1-5A 24"X24"
MO5-1R 21"X21"

DETAIL #16

CTH AY & CTH AH INTERSECTION

N

175

M4-8 24"X12" DETOUR COUNTY TW
M1-5A 24"X24"
MO6-1 21"X21"

AH

M4-8 24"X12" DETOUR COUNTY TW
M1-5A 24"X24"
MO5-1R 21"X21"

M4-8 24"X12" DETOUR COUNTY TW
M1-5A 24"X24"

ALTERNATE ORIGINAL 41

SOUTH SOUTH 67 175

175

DETAIL #17

STH 175 & CTH AH INTERSECTION

N

AY

M4-8 24"X12" DETOUR COUNTY TW
M1-5A 24"X24"
MO5-1L 21"X21"

COUNTY AY

28 67

M4-8 24"X12" DETOUR COUNTY TW
M1-5A 24"X24"
MO6-1 21"X21"

28 67

EAST NORTH 28 67

M4-8 24"X12" DETOUR COUNTY TW
M1-5A 24"X24"

DETAIL #18

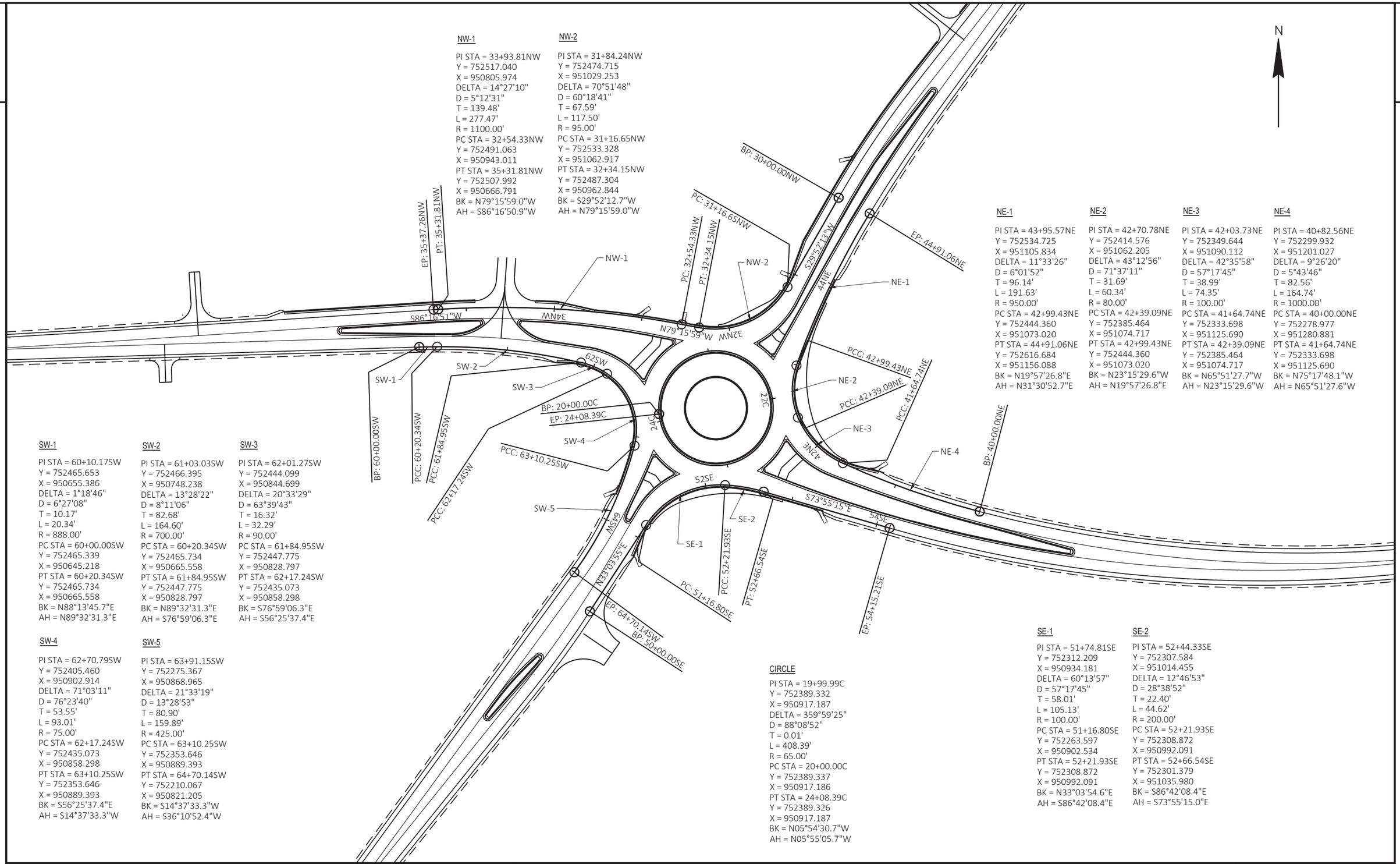
STH 28/67 & CTH AY INTERSECTION

2

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	DETOUR ROUTE - DETAIL 16 17 & 18	SHEET 53	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\027001 - DETOURS\027001_DE.DWG
LAYOUT NAME - DETAIL 16 17 & 18

PLOT DATE : 10/6/2021 7:21 AM PLOT BY : ARENSDORF, JAROD P PLOT NAME : PLOT SCALE : Custom



NW-1

PI STA = 33+93.81NW
Y = 752517.040
X = 950805.974
DELTA = 14°27'10"
D = 5°12'31"
T = 139.48'
L = 277.47'
R = 1100.00'
PC STA = 32+54.33NW
Y = 752491.063
X = 950943.011
PT STA = 35+31.81NW
Y = 752507.992
X = 950666.791
BK = N79°15'59.0"W
AH = S86°16'50.9"W

NW-2

PI STA = 31+84.24NW
Y = 752474.715
X = 951029.253
DELTA = 70°51'48"
D = 60°18'41"
T = 67.59'
L = 117.50'
R = 95.00'
PC STA = 31+16.65NW
Y = 752533.328
X = 951062.917
PT STA = 32+34.15NW
Y = 752487.304
X = 950962.844
BK = S29°52'12.7"W
AH = N79°15'59.0"W

NE-1

PI STA = 43+95.57NE
Y = 752534.725
X = 951105.834
DELTA = 11°33'26"
D = 6°01'52"
T = 96.14'
L = 191.63'
R = 950.00'
PC STA = 42+99.43NE
Y = 752444.360
X = 951073.020
PT STA = 44+91.06NE
Y = 752616.684
X = 951156.088
BK = N19°57'26.8"E
AH = N31°30'52.7"E

NE-2

PI STA = 42+70.78NE
Y = 752414.576
X = 951062.205
DELTA = 43°12'56"
D = 71°37'11"
T = 31.69'
L = 60.34'
R = 80.00'
PC STA = 42+39.09NE
Y = 752385.464
X = 951074.717
PT STA = 42+99.43NE
Y = 752444.360
X = 951073.020
BK = N23°15'29.6"W
AH = N19°57'26.8"E

NE-3

PI STA = 42+03.73NE
Y = 752349.644
X = 951090.112
DELTA = 42°35'58"
D = 57°17'45"
T = 38.99'
L = 74.35'
R = 100.00'
PC STA = 41+64.74NE
Y = 752333.698
X = 951125.690
PT STA = 42+39.09NE
Y = 752385.464
X = 951074.717
BK = N65°51'27.7"W
AH = N23°15'29.6"W

NE-4

PI STA = 40+82.56NE
Y = 752299.932
X = 951201.027
DELTA = 9°26'20"
D = 5°43'46"
T = 82.56'
L = 164.74'
R = 1000.00'
PC STA = 40+00.00NE
Y = 752278.977
X = 951280.881
PT STA = 41+64.74NE
Y = 752333.698
X = 951125.690
BK = N75°17'48.1"W
AH = N65°51'27.6"W

SW-1

PI STA = 60+10.17SW
Y = 752465.653
X = 950655.386
DELTA = 1°18'46"
D = 6°27'08"
T = 10.17'
L = 20.34'
R = 888.00'
PC STA = 60+00.00SW
Y = 752465.339
X = 950645.218
PT STA = 60+20.34SW
Y = 752465.734
X = 950665.558
BK = N88°13'45.7"E
AH = N89°32'31.3"E

SW-2

PI STA = 61+03.03SW
Y = 752466.395
X = 950748.238
DELTA = 13°28'22"
D = 8°11'06"
T = 82.68'
L = 164.60'
R = 700.00'
PC STA = 60+20.34SW
Y = 752465.734
X = 950665.558
PT STA = 61+84.95SW
Y = 752447.775
X = 950828.797
BK = N89°32'31.3"E
AH = S76°59'06.3"E

SW-3

PI STA = 62+01.27SW
Y = 752444.099
X = 950844.699
DELTA = 20°33'29"
D = 63°39'43"
T = 16.32'
L = 32.29'
R = 90.00'
PC STA = 61+84.95SW
Y = 752447.775
X = 950828.797
PT STA = 62+17.24SW
Y = 752435.073
X = 950858.298
BK = S76°59'06.3"E
AH = S56°25'37.4"E

SW-4

PI STA = 62+70.79SW
Y = 752405.460
X = 950902.914
DELTA = 71°03'11"
D = 76°23'40"
T = 53.55'
L = 93.01'
R = 75.00'
PC STA = 62+17.24SW
Y = 752435.073
X = 950858.298
PT STA = 63+10.25SW
Y = 752353.646
X = 950889.393
BK = S56°25'37.4"E
AH = S14°37'33.3"W

SW-5

PI STA = 63+91.15SW
Y = 752275.367
X = 950868.965
DELTA = 21°33'19"
D = 13°28'53"
T = 80.90'
L = 159.89'
R = 425.00'
PC STA = 63+10.25SW
Y = 752353.646
X = 950889.393
PT STA = 64+70.14SW
Y = 752210.067
X = 950821.205
BK = S14°37'33.3"W
AH = S36°10'52.4"W

CIRCLE

PI STA = 19+99.99C
Y = 752389.332
X = 950917.187
DELTA = 359°59'25"
D = 88°08'52"
T = 0.01'
L = 408.39'
R = 65.00'
PC STA = 20+00.00C
Y = 752389.337
X = 950917.186
PT STA = 24+08.39C
Y = 752389.326
X = 950917.187
BK = N05°54'30.7"W
AH = N05°55'05.7"W

SE-1

PI STA = 51+74.81SE
Y = 752312.209
X = 950934.181
DELTA = 60°13'57"
D = 57°17'45"
T = 58.01'
L = 105.13'
R = 100.00'
PC STA = 51+16.80SE
Y = 752263.597
X = 950902.534
PT STA = 52+21.93SE
Y = 752308.872
X = 950992.091
BK = N33°03'54.6"E
AH = S86°42'08.4"E

SE-2

PI STA = 52+44.33SE
Y = 752307.584
X = 951014.455
DELTA = 12°46'53"
D = 28°38'52"
T = 22.40'
L = 44.62'
R = 200.00'
PC STA = 52+21.93SE
Y = 752308.872
X = 950992.091
PT STA = 52+66.54SE
Y = 752301.379
X = 951035.980
BK = S86°42'08.4"E
AH = S73°55'15.0"E

EB-1

PI STA = 104+36.41EB
Y = 752456.500
X = 949970.953
DELTA = 1°10'24"
D = 0°55'21"
T = 63.59'
L = 127.17'
R = 6210.00'
PC STA = 103+72.82EB
Y = 752455.838
X = 949907.367
PT STA = 105+00.00EB
Y = 752458.465
X = 950034.512
BK = N89°24'09.8"E
AH = N88°13'45.7"E

EB-2

PI STA = 111+39.94EB
Y = 752478.239
X = 950674.147
DELTA = 3°43'52"
D = 6°21'58"
T = 29.31'
L = 58.61'
R = 900.00'
PC STA = 111+10.63EB
Y = 752477.333
X = 950644.847
PT STA = 111+69.23EB
Y = 752477.236
X = 950703.443
BK = N88°13'45.7"E
AH = S88°02'22.8"E

EB-3

PI STA = 112+27.05EB
Y = 752475.258
X = 950761.231
DELTA = 7°21'07"
D = 6°21'58"
T = 57.82'
L = 115.49'
R = 900.00'
PC STA = 111+69.23EB
Y = 752477.236
X = 950703.443
PT STA = 112+84.72EB
Y = 752465.901
X = 950818.291
BK = S88°02'22.8"E
AH = S80°41'15.5"E

EB-4

PI STA = 113+45.22EB
Y = 752456.111
X = 950877.998
DELTA = 46°44'43"
D = 60°18'41"
T = 41.06'
L = 77.51'
R = 95.00'
PC STA = 113+04.16EB
Y = 752462.754
X = 950837.483
PT STA = 113+81.67EB
Y = 752422.050
X = 950900.922
BK = S80°41'15.5"E
AH = S33°56'32.5"E

WB-1

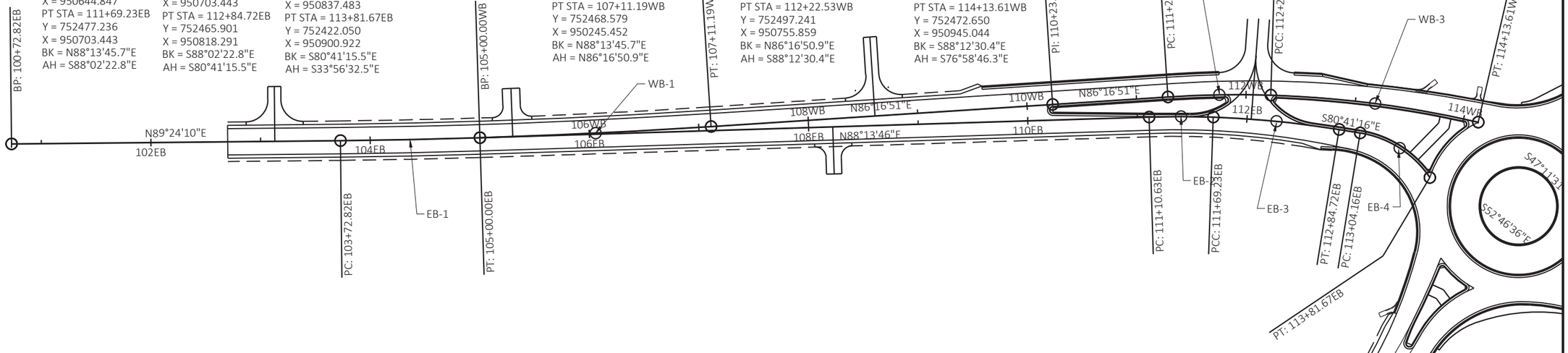
PI STA = 106+05.61WB
Y = 752461.728
X = 950140.069
DELTA = 1°56'55"
D = 0°55'21"
T = 105.61'
L = 211.19'
R = 6210.00'
PC STA = 105+00.00WB
Y = 752458.465
X = 950034.513
PT STA = 107+11.19WB
Y = 752468.579
X = 950245.452
BK = N88°13'45.7"E
AH = N86°16'50.9"E

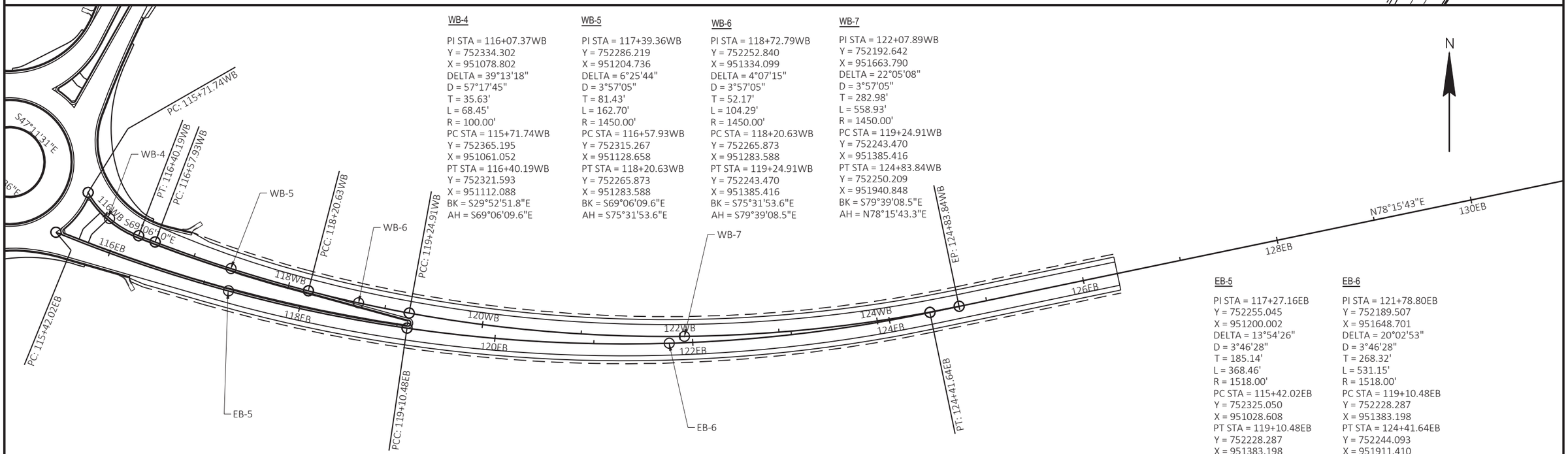
WB-2

PI STA = 111+75.68WB
Y = 752498.708
X = 950708.958
DELTA = 5°30'39"
D = 5°52'35"
T = 46.92'
L = 93.78'
R = 975.00'
PC STA = 111+28.75WB
Y = 752495.664
X = 950662.133
PT STA = 112+22.53WB
Y = 752497.241
X = 950755.859
BK = N86°16'50.9"E
AH = S88°12'30.4"E

WB-3

PI STA = 113+18.38WB
Y = 752494.245
X = 950851.660
DELTA = 11°13'44"
D = 5°52'35"
T = 95.85'
L = 191.08'
R = 975.00'
PC STA = 112+22.53WB
Y = 752497.241
X = 950755.859
PT STA = 114+13.61WB
Y = 752472.650
X = 950945.044
BK = S88°12'30.4"E
AH = S76°58'46.3"E





WB-4

PI STA = 116+07.37WB
Y = 752334.302
X = 951078.802
DELTA = 39°13'18"
D = 57°17'45"
T = 35.63'
L = 68.45'
R = 100.00'
PC STA = 115+71.74WB
Y = 752365.195
X = 951061.052
PT STA = 116+40.19WB
Y = 752321.593
X = 951112.088
BK = S29°52'51.8"E
AH = S69°06'09.6"E

WB-5

PI STA = 117+39.36WB
Y = 752286.219
X = 951204.736
DELTA = 6°25'44"
D = 3°57'05"
T = 81.43'
L = 162.70'
R = 1450.00'
PC STA = 116+57.93WB
Y = 752315.267
X = 951128.658
PT STA = 118+20.63WB
Y = 752265.873
X = 951283.588
BK = S69°06'09.6"E
AH = S75°31'53.6"E

WB-6

PI STA = 118+72.79WB
Y = 752252.840
X = 951334.099
DELTA = 4°07'15"
D = 3°57'05"
T = 52.17'
L = 104.29'
R = 1450.00'
PC STA = 118+20.63WB
Y = 752265.873
X = 951283.588
PT STA = 119+24.91WB
Y = 752243.470
X = 951385.416
BK = S75°31'53.6"E
AH = S79°39'08.5"E

WB-7

PI STA = 122+07.89WB
Y = 752192.642
X = 951663.790
DELTA = 22°05'08"
D = 3°57'05"
T = 282.98'
L = 558.93'
R = 1450.00'
PC STA = 119+24.91WB
Y = 752243.470
X = 951385.416
PT STA = 124+83.84WB
Y = 752250.209
X = 951940.848
BK = S79°39'08.5"E
AH = N78°15'43.3"E

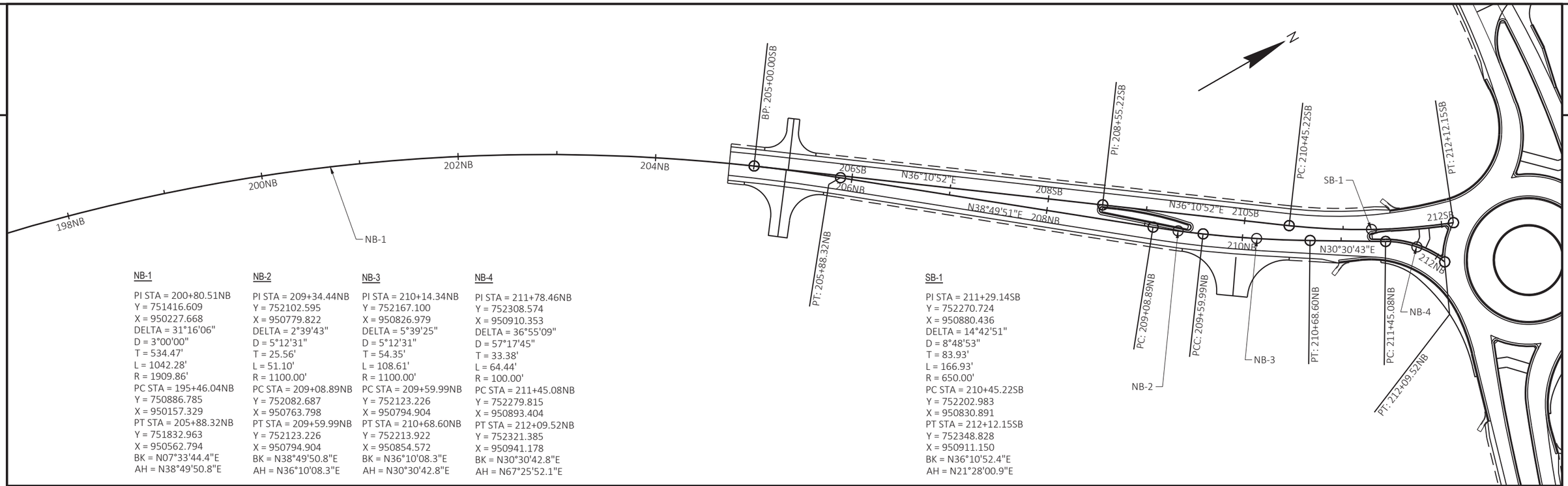
EB-5

PI STA = 117+27.16EB
Y = 752255.045
X = 951200.002
DELTA = 13°54'26"
D = 3°46'28"
T = 185.14'
L = 368.46'
R = 1518.00'
PC STA = 115+42.02EB
Y = 752325.050
X = 951028.608
PT STA = 119+10.48EB
Y = 752228.287
X = 951383.198
BK = S67°46'57.9"E
AH = S81°41'24.0"E

EB-6

PI STA = 121+78.80EB
Y = 752189.507
X = 951648.701
DELTA = 20°02'53"
D = 3°46'28"
T = 268.32'
L = 531.15'
R = 1518.00'
PC STA = 119+10.48EB
Y = 752228.287
X = 951383.198
PT STA = 124+41.64EB
Y = 752244.093
X = 951911.410
BK = S81°41'24.0"E
AH = N78°15'43.3"E

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	ALIGNMENT OVERVIEW	SHEET 55	E



NB-1

PI STA = 200+80.51NB
Y = 751416.609
X = 950227.668
DELTA = 31°16'06"
D = 3°00'00"
T = 534.47'
L = 1042.28'
R = 1909.86'
PC STA = 195+46.04NB
Y = 750886.785
X = 950157.329
PT STA = 205+88.32NB
Y = 751832.963
X = 950562.794
BK = N07°33'44.4"E
AH = N38°49'50.8"E

NB-2

PI STA = 209+34.44NB
Y = 752102.595
X = 950779.822
DELTA = 2°39'43"
D = 5°12'31"
T = 25.56'
L = 51.10'
R = 1100.00'
PC STA = 209+08.89NB
Y = 752082.687
X = 950763.798
PT STA = 209+59.99NB
Y = 752123.226
X = 950794.904
BK = N38°49'50.8"E
AH = N36°10'08.3"E

NB-3

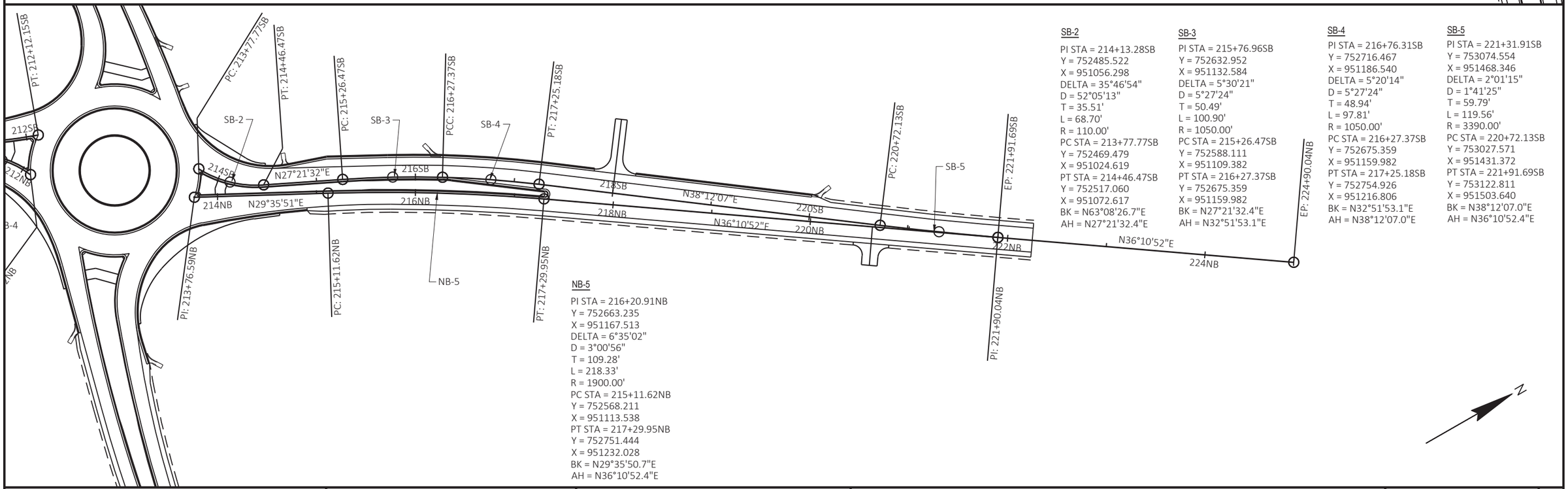
PI STA = 210+14.34NB
Y = 752167.100
X = 950826.979
DELTA = 5°39'25"
D = 5°12'31"
T = 54.35'
L = 108.61'
R = 1100.00'
PC STA = 209+59.99NB
Y = 752123.226
X = 950794.904
PT STA = 210+68.60NB
Y = 752213.922
X = 950854.572
BK = N36°10'08.3"E
AH = N30°30'42.8"E

NB-4

PI STA = 211+78.46NB
Y = 752308.574
X = 950910.353
DELTA = 36°55'09"
D = 57°17'45"
T = 33.38'
L = 64.44'
R = 100.00'
PC STA = 211+45.08NB
Y = 752279.815
X = 950893.404
PT STA = 212+09.52NB
Y = 752321.385
X = 950941.178
BK = N30°30'42.8"E
AH = N67°25'52.1"E

SB-1

PI STA = 211+29.14SB
Y = 752270.724
X = 950880.436
DELTA = 14°42'51"
D = 8°48'53"
T = 83.93'
L = 166.93'
R = 650.00'
PC STA = 210+45.22SB
Y = 752202.983
X = 950830.891
PT STA = 212+12.15SB
Y = 752348.828
X = 950911.150
BK = N36°10'52.4"E
AH = N21°28'00.9"E



SB-2

PI STA = 214+13.28SB
Y = 752485.522
X = 951056.298
DELTA = 35°46'54"
D = 52°05'13"
T = 35.51'
L = 68.70'
R = 110.00'
PC STA = 213+77.77SB
Y = 752469.479
X = 951024.619
PT STA = 214+46.47SB
Y = 752517.060
X = 951072.617
BK = N63°08'26.7"E
AH = N27°21'32.4"E

SB-3

PI STA = 215+76.96SB
Y = 752632.952
X = 951132.584
DELTA = 5°30'21"
D = 5°27'24"
T = 50.49'
L = 100.90'
R = 1050.00'
PC STA = 215+26.47SB
Y = 752588.111
X = 951109.382
PT STA = 216+27.37SB
Y = 752675.359
X = 951159.982
BK = N27°21'32.4"E
AH = N32°51'53.1"E

SB-4

PI STA = 216+76.31SB
Y = 752716.467
X = 951186.540
DELTA = 5°20'14"
D = 5°27'24"
T = 48.94'
L = 97.81'
R = 1050.00'
PC STA = 216+27.37SB
Y = 752675.359
X = 951159.982
PT STA = 217+25.18SB
Y = 752754.926
X = 951216.806
BK = N32°51'53.1"E
AH = N38°12'07.0"E

SB-5

PI STA = 221+31.91SB
Y = 753074.554
X = 951468.346
DELTA = 2°01'15"
D = 1°41'25"
T = 59.79'
L = 119.56'
R = 3390.00'
PC STA = 220+72.13SB
Y = 753027.571
X = 951431.372
PT STA = 221+91.69SB
Y = 753122.811
X = 951503.640
BK = N38°12'07.0"E
AH = N36°10'52.4"E

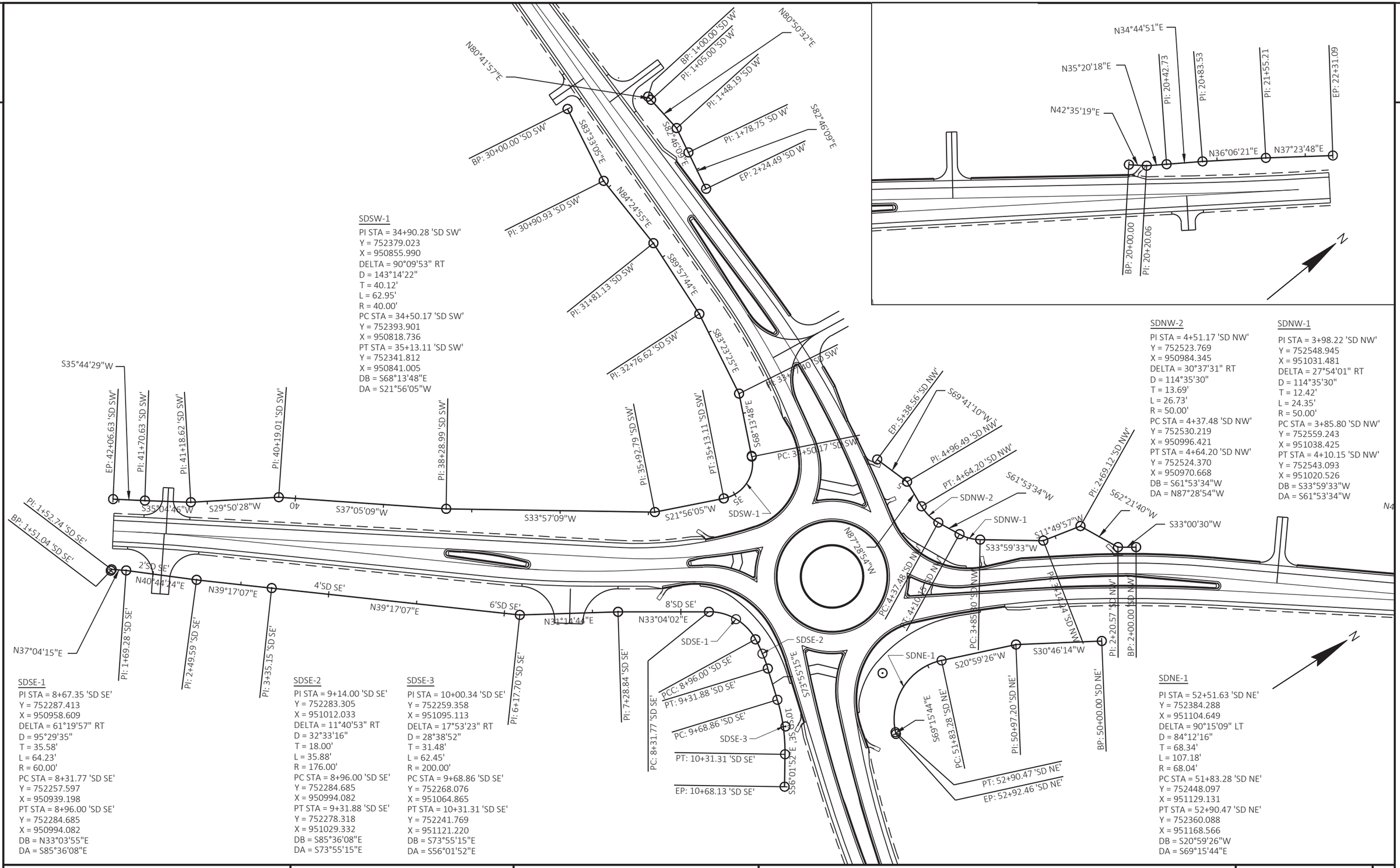
NB-5

PI STA = 216+20.91NB
Y = 752663.235
X = 951167.513
DELTA = 6°35'02"
D = 3°00'56"
T = 109.28'
L = 218.33'
R = 1900.00'
PC STA = 215+11.62NB
Y = 752568.211
X = 951113.538
PT STA = 217+29.95NB
Y = 752751.444
X = 951232.028
BK = N29°35'50.7"E
AH = N36°10'52.4"E

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	ALIGNMENT OVERVIEW	SHEET 56	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\40600502\SHEETSPLAN\027201 - ALIGNMENT OVERVIEW\027201_AO_NB-SB.DWG
LAYOUT NAME - 027203_ao
PLOT DATE : 8/6/2021 2:36 PM
PLOT BY : BAILEY, RYAN R
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2



SDSW-1
PI STA = 34+90.28 'SD SW'
Y = 752379.023
X = 950855.990
DELTA = 90°09'53" RT
D = 143°14'22"
T = 40.12'
L = 62.95'
R = 40.00'
PC STA = 34+50.17 'SD SW'
Y = 752393.901
X = 950818.736
PT STA = 35+13.11 'SD SW'
Y = 752341.812
X = 950841.005
DB = S68°13'48"E
DA = S21°56'05"W

SDNW-2
PI STA = 4+51.17 'SD NW'
Y = 752523.769
X = 950984.345
DELTA = 30°37'31" RT
D = 114°35'30"
T = 13.69'
L = 26.73'
R = 50.00'
PC STA = 4+37.48 'SD NW'
Y = 752530.219
X = 950996.421
PT STA = 4+64.20 'SD NW'
Y = 752524.370
X = 950970.668
DB = S61°53'34"W
DA = N87°28'54"W

SDNW-1
PI STA = 3+98.22 'SD NW'
Y = 752548.945
X = 951031.481
DELTA = 27°54'01" RT
D = 114°35'30"
T = 12.42'
L = 24.35'
R = 50.00'
PC STA = 3+85.80 'SD NW'
Y = 752559.243
X = 951038.425
PT STA = 4+10.15 'SD NW'
Y = 752543.093
X = 951020.526
DB = S33°59'33"W
DA = S61°53'34"W

SDSE-1
PI STA = 8+67.35 'SD SE'
Y = 752287.413
X = 950958.609
DELTA = 61°19'57" RT
D = 95°29'35"
T = 35.58'
L = 64.23'
R = 60.00'
PC STA = 8+31.77 'SD SE'
Y = 752257.597
X = 950939.198
PT STA = 8+96.00 'SD SE'
Y = 752284.685
X = 950994.082
DB = N33°03'55"E
DA = S85°36'08"E

SDSE-2
PI STA = 9+14.00 'SD SE'
Y = 752283.305
X = 951012.033
DELTA = 11°40'53" RT
D = 32°33'16"
T = 18.00'
L = 35.88'
R = 176.00'
PC STA = 8+96.00 'SD SE'
Y = 752284.685
X = 950994.082
PT STA = 9+31.88 'SD SE'
Y = 752278.318
X = 951029.332
DB = S85°36'08"E
DA = S73°55'15"E

SDSE-3
PI STA = 10+00.34 'SD SE'
Y = 752259.358
X = 951095.113
DELTA = 17°53'23" RT
D = 28°38'52"
T = 31.48'
L = 62.45'
R = 200.00'
PC STA = 9+68.86 'SD SE'
Y = 752268.076
X = 951064.865
PT STA = 10+31.31 'SD SE'
Y = 752241.769
X = 951121.220
DB = S73°55'15"E
DA = S56°01'52"E

SDNE-1
PI STA = 52+51.63 'SD NE'
Y = 752384.288
X = 951104.649
DELTA = 90°15'09" LT
D = 84°12'16"
T = 68.34'
L = 107.18'
R = 68.04'
PC STA = 51+83.28 'SD NE'
Y = 752448.097
X = 951129.131
PT STA = 52+90.47 'SD NE'
Y = 752360.088
X = 951168.566
DB = S20°59'26"W
DA = S69°15'44"E

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	ALIGNMENT OVERVIEW	SHEET 57	E

FILE NAME : \\MAD31ZP1\N3PUBLIC\PDS\C3D\40600502\SHEETSPLAN\027201 - ALIGNMENT OVERVIEW\027201_AO_SD.DWG
LAYOUT NAME - 027204_ao_sd
PLOT DATE : 8/6/2021 2:37 PM
PLOT BY : BAILEY, RYAN R
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

Estimate Of Quantities

4060-05-72

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	5.000	5.000
0004	201.0205	Grubbing	STA	5.000	5.000
0006	203.0100	Removing Small Pipe Culverts	EACH	11.000	11.000
0008	204.0150	Removing Curb & Gutter	LF	775.000	775.000
0010	205.0100	Excavation Common	CY	24,705.000	24,705.000
0012	213.0100	Finishing Roadway (project) 01. 4060-05-72	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	875.000	875.000
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	14,775.000	14,775.000
0018	312.0110	Select Crushed Material	TON	14,550.000	14,550.000
0020	405.0100	Coloring Concrete WisDOT Red	CY	394.000	394.000
0022	416.0512	Concrete Truck Apron 12-Inch	SY	1,176.000	1,176.000
0024	455.0605	Tack Coat	GAL	836.000	836.000
0026	460.2000	Incentive Density HMA Pavement	DOL	3,770.000	3,770.000
0028	460.6223	HMA Pavement 3 MT 58-28 S	TON	3,274.000	3,274.000
0030	460.6424	HMA Pavement 4 MT 58-28 H	TON	2,339.000	2,339.000
0032	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	42.000	42.000
0034	465.0315	Asphaltic Flumes	SY	153.000	153.000
0036	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	10.000	10.000
0038	521.3118	Culvert Pipe Corrugated Steel 18-Inch	LF	255.000	255.000
0040	522.0424	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	134.000	134.000
0042	522.0430	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	91.000	91.000
0044	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	1.000	1.000
0046	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	3.000	3.000
0048	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	6.000	6.000
0050	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	2.000	2.000
0052	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	220.000	220.000
0054	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	1,498.000	1,498.000
0056	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	LF	2,711.000	2,711.000
0058	601.0582	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type T	LF	397.000	397.000
0060	601.0600	Concrete Curb Pedestrian	LF	225.000	225.000
0062	602.0405	Concrete Sidewalk 4-Inch	SF	16,180.000	16,180.000
0064	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	160.000	160.000
0066	606.0200	Riprap Medium	CY	36.000	36.000
0068	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	86.000	86.000
0070	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	164.000	164.000
0072	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	165.000	165.000
0074	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	63.000	63.000
0076	611.0624	Inlet Covers Type H	EACH	2.000	2.000
0078	611.0627	Inlet Covers Type HM	EACH	2.000	2.000
0080	611.0652	Inlet Covers Type T	EACH	5.000	5.000
0082	611.1004	Catch Basins 4-FT Diameter	EACH	1.000	1.000
0084	611.3225	Inlets 2x2.5-FT	EACH	4.000	4.000
0086	611.3230	Inlets 2x3-FT	EACH	4.000	4.000
0088	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	964.000	964.000
0090	618.0100	Maintenance And Repair of Haul Roads (project) 01. 4060-05-72	EACH	1.000	1.000
0092	619.1000	Mobilization	EACH	1.000	1.000
0094	620.0300	Concrete Median Sloped Nose	SF	452.000	452.000
0096	624.0100	Water	MGAL	221.000	221.000
0098	625.0500	Salvaged Topsoil	SY	31,356.000	31,356.000

4060-05-72

Line	Item	Item Description	Unit	Total	Qty
0100	628.1504	Silt Fence	LF	4,495.000	4,495.000
0102	628.1520	Silt Fence Maintenance	LF	4,495.000	4,495.000
0104	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0106	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0108	628.2004	Erosion Mat Class I Type B	SY	27,595.000	27,595.000
0110	628.7015	Inlet Protection Type C	EACH	9.000	9.000
0112	628.7504	Temporary Ditch Checks	LF	820.000	820.000
0114	628.7555	Culvert Pipe Checks	EACH	37.000	37.000
0116	628.7570	Rock Bags	EACH	35.000	35.000
0118	629.0210	Fertilizer Type B	CWT	20.000	20.000
0120	630.0140	Seeding Mixture No. 40	LB	569.000	569.000
0122	630.0200	Seeding Temporary	LB	286.000	286.000
0124	630.0500	Seed Water	MGAL	681.000	681.000
0126	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	23.000	23.000
0128	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	18.000	18.000
0130	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	14.000	14.000
0132	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	13.000	13.000
0134	634.0816	Posts Tubular Steel 2x2-Inch X 16-FT	EACH	7.000	7.000
0136	637.2210	Signs Type II Reflective H	SF	660.900	660.900
0138	637.2230	Signs Type II Reflective F	SF	82.300	82.300
0140	638.2602	Removing Signs Type II	EACH	41.000	41.000
0142	638.3000	Removing Small Sign Supports	EACH	53.000	53.000
0144	642.5001	Field Office Type B	EACH	1.000	1.000
0146	643.0300	Traffic Control Drums	DAY	5,140.000	5,140.000
0148	643.0420	Traffic Control Barricades Type III	DAY	2,800.000	2,800.000
0150	643.0705	Traffic Control Warning Lights Type A	DAY	5,600.000	5,600.000
0152	643.0715	Traffic Control Warning Lights Type C	DAY	2,000.000	2,000.000
0154	643.0900	Traffic Control Signs	DAY	67,400.000	67,400.000
0156	643.0910	Traffic Control Covering Signs Type I	EACH	6.000	6.000
0158	643.0920	Traffic Control Covering Signs Type II	EACH	17.000	17.000
0160	643.1000	Traffic Control Signs Fixed Message	SF	37.500	37.500
0162	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
0164	643.5000	Traffic Control	EACH	1.000	1.000
0166	645.0120	Geotextile Type HR	SY	68.000	68.000
0168	645.0220	Geogrid Type SR	SY	24,248.000	24,248.000
0170	646.1020	Marking Line Epoxy 4-Inch	LF	18,238.000	18,238.000
0172	646.3020	Marking Line Epoxy 8-Inch	LF	314.000	314.000
0174	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	94.000	94.000
0176	646.7120	Marking Diagonal Epoxy 12-Inch	LF	717.000	717.000
0178	646.8120	Marking Curb Epoxy	LF	692.000	692.000
0180	646.8220	Marking Island Nose Epoxy	EACH	8.000	8.000
0182	650.4000	Construction Staking Storm Sewer	EACH	15.000	15.000
0184	650.4500	Construction Staking Subgrade	LF	7,520.000	7,520.000
0186	650.5000	Construction Staking Base	LF	7,520.000	7,520.000
0188	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	4,826.000	4,826.000
0190	650.6000	Construction Staking Pipe Culverts	EACH	8.000	8.000
0192	650.8500	Construction Staking Electrical Installations (project) 01. 4060-05-72	LS	1.000	1.000
0194	650.9910	Construction Staking Supplemental Control (project) 01. 4060-05-72	LS	1.000	1.000
0196	650.9920	Construction Staking Slope Stakes	LF	7,799.000	7,799.000

4060-05-72

Line	Item	Item Description	Unit	Total	Qty
0198	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	1,535.000	1,535.000
0200	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	895.000	895.000
0202	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	8.000	8.000
0204	654.0105	Concrete Bases Type 5	EACH	16.000	16.000
0206	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000
0208	655.0610	Electrical Wire Lighting 12 AWG	LF	1,920.000	1,920.000
0210	655.0620	Electrical Wire Lighting 8 AWG	LF	12,335.000	12,335.000
0212	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. STH 28	LS	1.000	1.000
0214	657.0322	Poles Type 5-Aluminum	EACH	16.000	16.000
0216	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	16.000	16.000
0218	659.1115	Luminaires Utility LED A	EACH	16.000	16.000
0220	659.2130	Lighting Control Cabinets 120/240 30-Inch	EACH	1.000	1.000
0222	690.0150	Sawing Asphalt	LF	144.000	144.000
0224	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000
0226	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,320.000	1,320.000

CLEARING & GRUBBING

STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
120+00	-	121+00	SE QUADRANT	1	1
216+00	-	218+00	NW QUADRANT	2	2
107+50	-	109+50	NW QUADRANT	2	2
			TOTAL 0010	5	5

EXCAVATION COMMON

LOCATION	205.0100 CY	REMARKS
PROJECT LIMITS	23,530	
UNDISTRIBUTED	1,175	EBS
TOTAL 0010	24,705	

NOTE: SEE EARTHWORK SUMMARY AND DETAIL SHEETS FOR MORE INFORMATION

EACH ITEMS

LOCATION	213.0100.01 FINISHING ROADWAY (01.4060-05-72) EACH	618.0100.01 MAINTENANCE AND REPAIR OF HAUL ROADS (01.4060-05-72) EACH	619.1000 MOBILIZATION EACH	642.5001 FIELD OFFICE TYPE B EACH	643.5000 TRAFFIC CONTROL EACH
PROJECT LIMITS	1	1	1	1	1
TOTAL 0010	1	1	1	1	1

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	203.0100 EACH	REMARKS
105+30 WB	LEFT SIDE	1	46' X 18-INCH, STEEL
108+59 WB	LEFT SIDE	1	62' X 18-INCH, STEEL
111+83 EB	MAINLINE	1	114' X 24-INCH, CONCRETE
114+04 EB	MAINLINE	1	150' X 24-INCH, CONCRETE
205+30 NB	RIGHT SIDE	1	48' X 18-INCH, STEEL
205+37 NB	LEFT SIDE	1	50' X 18-INCH, STEEL
206+57 NB	MAINLINE	1	82' X 24 INCH, CONCRETE
209+96 NB	RIGHT SIDE	1	94' X 18 INCH, STEEL
117+82 EB	RIGHT SIDE	1	70' X 18-INCH, STEEL
126+22 EB	MAINLINE	1	158' X 36-INCH, CONCRETE
215+76 NB	MAINLINE	1	90' X 24-INCH, CONCRETE
	TOTAL 0010	11	

REMOVING CURB & GUTTER

LOCATION	204.0150 LF
NW CORNER	60
SW CORNER	68
NE CORNER	68
SE CORNER	70
EAST ISLAND	104
WEST ISLAND	105
N LEG, W SIDE	300
TOTAL 0010	775

BASE ITEMS

LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH LF	624.0100 WATER MGAL	645.0220 GEOGRID TYPE SR SY
WEST	152	3,430	3,448	-	121	5,746
EAST	331	3,865	3,763	-	-	6,271
NORTH	185	3,197	3,017	-	-	5,028
SOUTH	207	2,680	2,452	-	-	4,086
CIRCLE	-	1,603	1,870	964	-	3,115
UNDISTRIBUTED					100	
TOTAL 0010	875	14,775	14,550	964	221	24,248

CONCRETE TRUCK APRON ITEMS

LOCATION	405.0100 COLORING CONCRETE WISDOT RED CY	416.0512 CONCRETE TRUCK APRON 12-INCH SY
NW CORNER	15	44
NE CORNER	54	160
SE CORNER	28	82
CIRCLE	297	890
TOTAL 0010	394	1,176

CULVERT PIPE ITEMS

STATION	LOCATION	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	521.3118 CULVERT PIPE CORRUGATED STEEL 18-INCH (0.064 THICK) LF	522.0424 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	522.0430 CULVERT PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	522.1024* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH
105+17 'WB'	LT DRIVEWAY	2	25					1
108+40 'WB'	LT DRIVEWAY	2	41					1
109+30 'WB'	LT/RT - CTH TW CROSS	-	-	63	-	2	-	1
205+00 'NB'	RT - DRIVEWAY	2	62	-	-	-	-	1
209+50 'NB'	RT - DRIVEWAY	2	94	-	-	-	-	1
205+19 'SB'	LT - DRIVEWAY	2	33	-	-	-	-	1
206+60 'SB'	LT/RT - STH 28 CROSS	-	-	71	-	2	-	1
215+80 'SB'	LT/RT - STH 28 CROSS	-	-	-	91	-	2	1
	TOTAL 0010	10	255	134	91	4	2	8

*ADDITIONAL QUANTITIES LISTED IN STORM SEWER STRUCTURE SUMMARY TABLE

3

ASPHALTIC ITEMS

LOCATION	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6424 HMA PAVEMENT 4 MT 58-28 H TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0315 ASPHALTIC FLUMES SY
WEST	205	802	573	24	33
EAST	228	894	638	-	33
NORTH	187	732	523	-	41
SOUTH	149	583	417	18	46
CIRCLE	67	263	188	-	-
TOTAL 0010	836	3,274	2,339	42	153

CURB & GUTTER ITEMS

LOCATION	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	601.0582 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF
NORTH SPLITTER ISLAND		351	381		732
EAST SPLITTER ISLAND	-	380	385	-	765
SOUTH SPLITTER ISLANDS	-	191	197	-	388
WEST SPLITTER ISLANDS	-	397	335	-	732
SE QUADRANT CURB	-	-	256	-	256
SW QUADRANT CURB	-	-	208	-	208
NE QUADRANT CURB	-	-	280	-	280
NW QUADRANT CURB	-	179	669	-	848
CIRCLE	220	-	-	397	617
TOTAL 0010	220	1,498	2,711	397	4,826

SPLITTER ISLAND ITEMS

STATION	TO	STATION	LOCATION	602.0405 CONCRETE SIDEWALK 4-INCH SF	620.0300 CONCRETE MEDIAN SLOPED NOSE TYPE 1 SF	620.0300 CONCRETE MEDIAN SLOPED NOSE TYPE 2 SF
110+22 EB	-	111+80 EB	WEST LEG SPLITTER ISLAND	1,435	40	31
112+25 EB	-	113+75 EB	WEST LEG SPLITTER ISLAND	4,290	-	71
115+48 EB	-	119+10 EB	EAST LEG SPLITTER ISLAND	6,035	40	40
208+55 NB	-	209+44 NB	SOUTH LEG SPLITTER ISLAND	515	38	38
211+32 NB	-	212+06 NB	SOUTH LEG SPLITTER ISLAND	1,045	37	40
213+78 NB	-	217+30 NB	NORTH LEG SPLITTER ISLAND	2,860	40	37
			SUBTOTAL 0010	16,180	195	257
			TOTAL 0010	16,180	452	

3

CURB RAMP ITEMS

LOCATION	601.0600 CONCRETE CURB PEDESTRIAN LF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF
NORTH SPLITTER ISLAND	26	40
SOUTH SPLITTER ISLAND	39	40
EAST SPLITTER ISLAND	66	40
WEST SPLITTER ISLAND	94	40
TOTAL 0010	225	160

STORM SEWER PIPE SUMMARY

BEGIN STRUCTURE (UP INVERT)	END STRUCTURE (DOWN INVERT)	STORM SEWER PIPE REINFORCED CONCRETE 608.0312 CLASS III 12-INCH LF	608.0315 CLASS III 15-INCH LF	608.0324 CLASS III 24-INCH LF	608.0415 CLASS IV 15-INCH LF	INLET ELEVATION FT	DISCHARGE ELEVATION FT	SLOPE FT/FT
1	2	16	--	--	--	970.99	970.75	0.0150
2	3	--	95	--	--	970.50	969.08	0.0149
4	5	--	--	84	--	970.06	968.63	0.0170
5	6	--	--	50	--	968.63	968.46	0.0034
6	7	--	--	32	--	968.46	968.30	0.0052
8	10	19	--	--	--	970.22	970.03	0.0100
9	10	19	--	--	--	970.22	970.03	0.0100
10	11	--	--	--	63	969.77	969.46	0.0049
12	13		69			969.90	968.87	0.0149
14	15	32				970.62	969.51	0.0347
	TOTAL 0010	86	164	165	63			

APRON ENDWALL EROSION CONTROL

STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY
206+57.9 SB	40.3' RT	4	8
215+78.5 SB	54.7 RT	6	12
109+28.5 WB	38' RT	4	8
61+82 SW	34.2' RT	3	5
62+53 SW	32.3' RT	4	8
51+63 SE	20.2' RT	3	5
42+28 NE	35.3' RT	3	5
43+05 NE	33.8' RT	3	5
	UNDISTRIBUTED	6	12
	TOTAL 0010	36	68

STORM SEWER STRUCTURE SUMMARY

STRUCTURE NO.	STATION	OFFSET[1] FT	522.1012 * APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1015 * APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.1024 * APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0652 INLET COVERS TYPE T EACH	611.1004 CATCH BASINS 4-FT DIAMETER EACH	611.3225 INLETS 2X2.5-FT EACH	611.3230 INLETS 2X3-FT EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	RIM ELEVATION FT	INVERT[2] ELEVATION FT	DEPTH[3] FT
1	33+76 'WB'	4.4' RT	--	--	--	1	--	--	--	--	1	1	975.35	970.99	3.52
2	33+60 'WB'	2.2' RT	--	--	--	1	--	--	--	--	1	1	975.25	970.50	3.94
3	61+82 'SW'	34.2' RT	--	1	--	--	--	--	--	--	--	1	--	969.08	--
4	32+64 'NW'	18.9' RT	--	--	1	--	--	--	--	--	--	1	--	972.31	--
5	20+41 'C'	1.3' RT	--	--	--	--	--	1	1	--	--	1	974.60	966.63	6.88
6	62+53 'SW'	1.5' RT	--	--	--	--	1	--	--	--	1	1	974.27	968.46	5.06
7	62+53 'SW'	32.3' RT	--	--	1	--	--	--	--	--	--	1	--	970.55	--
8	23+55 'C'	1.7' RT	--	--	--	--	--	1	--	1	--	1	973.89	970.22	2.75
9	23+35 'C'	1.7' RT	--	--	--	--	--	1	--	1	--	1	973.89	970.22	2.75
10	23+15 'C'	1.7' RT	--	--	--	--	--	1	--	1	--	1	973.86	969.77	3.19
11	51+61 'SF'	21.6' RT	--	1	--	--	--	--	--	--	--	1	--	970.90	--
12	22+15 'C'	1.7' RT	--	--	--	--	--	1	--	1	--	1	974.62	969.90	3.82
13	42+18 'NE'	35.3' RT	--	1	--	--	--	--	--	--	--	1	--	968.87	--
14	43+05 'NE'	1.5' RT					1				1	1	974.93	970.62	3.48
15	43+05 'NE'	33.8' RT	1									1		970.68	
		TOTAL 0010	1	3	2	2	2	5	1	4	4	15			

*ADDITIONAL QUANTITIES LISTED IN CULVERT PIPE ITEMS TABLE

[1] STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

[2] FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE

[3] DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6 -INCH ADJUSTMENT RING HEIGHT

EROSION MAT CLASS I TYPE B

STATION	TO	STATION	LOCATION	628.2004 SY	REMARKS
204+75 'NB'	-	52+15 'SF'	RT	2,405	SOUTH LEG, EAST SIDE
204+75 'NB'	-	62+70 'SW'	LT	3,000	SOUTH LEG, WEST SIDE
42+65 'NE'	-	222+25 'NB'	RT	2,505	NORTH LEG, EAST SIDE
32+12 'NW'	-	222+25 'NB'	LT	2,250	NORTH LEG, WEST SIDE
102+70 'EB'	-	62+70 'SW'	RT	3,795	WEST LEG, SOUTH SIDE
102+70 'EB'	-	32+12 'NW'	LT	3,995	WEST LEG, NORTH SIDE
52+15 'SF'	-	126+35 'EB'	RT	4,825	EAST LEG, SOUTH SIDE
42+65 'NE'	-	126+35 'EB'	LT	2,310	EAST LEG, NORTH SIDE
			UNDISTRIBUTED	2,510	
			TOTAL 0010	27,595	

CULVERT PIPE CHECKS

STATION	LOCATION	628.7555 EACH	REMARKS
205+70 'NB'	RT	2	DRIVEWAY
205+58 'SB'	LT	2	DRIVEWAY
206+60 'SB'	LT	3	CROSS CULVERT
210+46 'NB'	RT	2	DRIVEWAY
105+12 'WB'	LT	2	DRIVEWAY
108+34 'WB'	LT	2	DRIVEWAY
109+30 'WB'	LT	3	CROSS CULVERT
126+25 'EB'	LT	7	EXISTING CULVERT
215+81 'SB'	LT	3	CROSS CULVERT
32+65 'NW'	RT	3	STORM CULVERT
	UNDISTRIBUTED	8	
	TOTAL 0010	37	

MOBILIZATION ITEMS

LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
PROJECT 4060-05-72	2	2
TOTAL 0010	2	2

3

SILT FENCE

STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	REMARKS
205+50 'NB'	-	209+75 'NB'	RT	425	425	SE QUADRANT
50+00 'SE'	-	54+15 'SE'	RT	375	375	SE QUADRANT
117+08 'EB'	-	126+40 'EB'	RT	980	980	SE QUADRANT
215+90 'NB'	-	220+50 'NB'	RT	470	470	NE QUADRANT
109+88 'WB'		111+90 'WB'	LT	220	220	NW QUADRANT
33+00 'NW'		34+40 'NW'	RT	150	150	NW QUADRANT
216+20 'SB'	-	219+90 'SB'	LT	350	350	NW QUADRANT
102+67 'EB'	-	108+55 'EB'	LT	625	625	SW QUADRANT
			UNDISTRIBUTED	900	900	
			TOTAL 0010	4,495	4,495	

INLET PROTECTION TYPE C

STATION	LOCATION	628.7015 EACH
33+60 'NW'	RT	1
33+76 'NW'	RT	1
62+53 'SW'	RT	1
20+41 'C'	RT	1
22+15 'C'	RT	1
23+15 'C'	RT	1
23+35 'C'	RT	1
23+55 'C'	RT	1
43+05 'NE'	RT	1
	TOTAL 0010	9

TEMPORARY DITCH CHECKS

STATION	LOCATION	628.7504 LF	REMARKS
2+54 'SD SE'	-	25	SE QUADRANT DITCHES
4+00 'SD SE'	-	25	SE QUADRANT DITCHES
6+90 'SD SE'	-	25	SE QUADRANT DITCHES
7+80 'SD SE'	-	28	SE QUADRANT DITCHES
8+20 'SD SE'	-	20	SE QUADRANT DITCHES
8+55 'SD SE'	-	20	SE QUADRANT DITCHES
9+30 'SD SE'	-	28	SE QUADRANT DITCHES
9+75 'SD SE'	-	28	SE QUADRANT DITCHES
10+10 'SD SE'	-	28	SE QUADRANT DITCHES
10+35 'SD SE'	-	28	SE QUADRANT DITCHES
10+55 'SD SE'	-	28	SE QUADRANT DITCHES
124+45 'WB'	LT	23	NE QUADRANT DITCHES
122+70 'WB'	LT	23	NE QUADRANT DITCHES
120+65 'WB'	LT	28	NE QUADRANT DITCHES
119+45 'WB'	LT	25	NE QUADRANT DITCHES
118+51 'WB'		25	NE QUADRANT DITCHES
40+27 'NE'	-	25	NE QUADRANT DITCHES
40+92 'NE'	-	23	NE QUADRANT DITCHES
52+58 'SD NE'	-	28	NE QUADRANT DITCHES
50+70 'SD NE'	-	28	NE QUADRANT DITCHES
222+25 'NB'	RT	28	NE QUADRANT DITCHES
222+25 'NB'	LT	23	NW QUADRANT DITCHES
221+00 SB'	LT	23	NW QUADRANT DITCHES
4+40 'NW'		23	NW QUADRANT DITCHES
107+50 'WB'	LT	28	NW QUADRANT DITCHES
106+50 'WB'	LT	28	NW QUADRANT DITCHES
105+50 'WB'	LT	28	NW QUADRANT DITCHES
104+45 'EB'	LT	28	NW QUADRANT DITCHES
102+70 'EB'	LT	28	NW QUADRANT DITCHES
30+40 'SD SW'	-	20	SW QUADRANT DITCHES
30+80 'SD SW'	-	20	SW QUADRANT DITCHES
31+83 'SD SW'	-	23	SW QUADRANT DITCHES
32+70 'SD SW'	-	23	SW QUADRANT DITCHES
33+45 'SD SW'	-	23	SW QUADRANT DITCHES
33+75 'SD SW'	-	23	SW QUADRANT DITCHES
34+35 'SD SW'	-	28	SW QUADRANT DITCHES
35+65 'SD SW'	-	23	SW QUADRANT DITCHES
36+60 'SD SW'	-	25	SW QUADRANT DITCHES
37+52 'SD SW'		23	SW QUADRANT DITCHES
38+53 'SD SW'		28	SW QUADRANT DITCHES
39+83 'SD SW'	-	20	SW QUADRANT DITCHES
42+00 'SD SW'	-	23	SW QUADRANT DITCHES
	TOTAL 0010	820	

LANDSCAPING ITEMS

STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
204+75 'NB'	-	52+15 'SE'	SOUTH LEG, EAST SIDE	2,405	2,405	1.5	44	22	53
204+75 'NB'	-	62+70 'SW'	SOUTH LEG, WEST SIDE	3,000	3,000	1.9	54	27	65
42+65 'NE'	-	222+25 'NB'	NORTH LEG, EAST SIDE	2,505	2,505	1.6	46	23	55
32+12 'NW'	-	222+25 'NB'	NORTH LEG, WEST SIDE	2,250	2,250	1.4	41	21	49
102+70 'EB'	-	62+70 'SW'	WEST LEG, SOUTH SIDE	3,795	3,795	2.4	69	35	83
102+70 'EB'	-	32+12 'NW'	WEST LEG, NORTH SIDE	3,995	3,995	2.5	72	36	86
52+15 'SE'	-	126+35 'EB'	EAST LEG, SOUTH SIDE	4,825	4,825	3.0	87	44	104
42+65 'NE'	-	126+35 'EB'	EAST LEG, NORTH SIDE	2,310	2,310	1.5	42	21	50
			UNDISTRIBUTED	6,271	6,271	4.0	114	57	136
			TOTAL 0010	31,356	31,356	20	569	286	681

ROCK BAGS

STATION	LOCATION	628.7570 EACH
205+33 'NB'	RT	2
205+95 'NB'	RT	2
205+35 'SB'	LT	3
206+60 'SB'	LT	2
215+80 'SB'	LT	3
105+30 'WB'	LT	2
108+61 'WB'	LT	2
109+30 'WB'	LT	2
126+25 'EB'	LT	7
32+65 'NW'	RT	3
	UNDISTRIBUTED	7
	TOTAL 0010	35

3

PERMANENT SIGNING

SIGN NO.	LOCATION	SIGN CODE	W IN	X	H IN	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	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	634.0816 POSTS TUBULAR STEEL 2X2-INCH X 16-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	REMARKS
1-01	WEST LEG	J1-3	72	X	39	-	1	1	-	-	19.5	-	
1-02	WEST LEG	W2-6	30	X	30	-	-	1	-	-	-	6.3	ON SHARED POST
-	WEST LEG	W13-1	18	X	18	-	-	-	-	-	-	2.3	ON SHARED POST
1-03	WEST LEG	D1-62	144	X	78	-	-	1	2	-	78.0	-	CUSTOM SIGN
1-04	WEST LEG	W5-3	36	X	36	-	-	1	-	-	-	9.0	
1-05	WEST LEG	R4-7	24	X	30	1	-	-	-	-	5.0	-	ON SHARED POST
-	WEST LEG	W5-56	18	X	18	-	-	-	-	-	-	2.3	ON SHARED POST
1-06	WEST LEG	R5-1	30	X	30	-	1	-	-	-	6.3	-	ON SHARED POST
1-07	WEST LEG	R2-1	24	X	30	-	-	-	-	-	5.0	-	ON SHARED POST
1-08	EAST LEG	R4-7	24	X	30	1	-	-	-	-	5.0	-	ON SHARED POST
-	EAST LEG	W5-56	18	X	18	-	-	-	-	-	-	2.3	ON SHARED POST
1-09	EAST LEG	R2-1	24	X	30	-	-	-	-	-	5.0	-	ON SHARED POST
1-10	EAST LEG	R5-1	30	X	30	-	1	-	-	-	6.3	-	ON SHARED POST
1-11	EAST LEG	J2-2	48	X	69	-	-	-	2	-	23.0	-	
1-12	EAST LEG	D1-62	144	X	72	-	-	-	3	-	72.0	-	CUSTOM SIGN
1-13	EAST LEG	W5-3	36	X	36	-	1	-	-	-	-	9.0	
1-14	EAST LEG	W2-6	30	X	30	-	-	1	-	-	-	6.3	ON SHARED POST
-	EAST LEG	W13-1	18	X	18	-	-	-	-	-	-	2.3	ON SHARED POST
1-15	EAST LEG	J1-3	72	X	39	-	-	2	-	-	19.5	-	
-	EAST LEG	W13-1	18	X	18	-	-	-	-	-	-	2.3	ON SHARED POST
1-16	EAST LEG	D1-2	72	X	30	-	-	2	-	-	15.0	-	
2-01	SOUTH LEG	R4-7	24	X	30	-	-	-	-	1	5.0	-	
2-02	SOUTH LEG	R1-2	36	X	31	-	-	-	-	1	3.9	-	
2-03	SOUTH LEG	R1-2	36	X	31	-	-	-	-	1	3.9	-	
2-04	EAST LEG	D1-1	42	X	30	2	-	-	-	-	8.8	-	
2-05	EAST LEG	J4-2	48	X	36	-	1	-	-	-	12.0	-	ON SHARED POST
2-06	EAST LEG	R5-1A	36	X	24	-	-	-	-	-	6.0	-	ON SHARED POST
2-07	SOUTH LEG	R5-1	30	X	30	-	-	-	-	-	6.3	-	ON SHARED POST
2-08	SOUTH LEG	J4-4	96	X	36	-	-	2	-	-	24.0	-	ON SHARED POST
2-09	EAST LEG	R1-2	36	X	31	-	-	-	-	1	3.9	-	
2-10	EAST LEG	R1-2	36	X	31	-	-	-	-	1	3.9	-	
2-11	NORTH LEG	D1-2	72	X	30	2	-	-	-	-	15.0	-	
2-12	NORTH LEG	R1-2	36	X	31	-	-	-	-	1	3.9	-	
2-13	NORTH LEG	J1-3	72	X	39		1	1			19.5		
2-14	NORTH LEG	R1-2	36	X	31					1	3.9		ON SHARED POST
		SUB TOTAL 0010				6	6	12	7	7	379.6	42.1	

3

PERMANENT SIGNING CONTINUED

SIGN NO.	LOCATION	SIGN CODE	W IN	X	H IN	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	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	634.0816 POSTS TUBULAR STEEL 2X2-INCH X 16-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	REMARKS
2-15	WEST LEG	D1-1	42	X	30	2	-	-	-	-	8.8	-	
2-16	WEST LEG	M1-5L	24	X	24	1	-	-	-	-	4.0	-	ON SHARED POST
2-17	WEST LEG	R5-1	30	X	30	-	-	-	-	-	6.3	-	ON SHARED POST
2-18	WEST LEG	R5-2L	24	X	30	-	1	-	-	-	5.0	-	
2-19	WEST LEG	R1-2	36	X	30	-	1	-	-	-	3.9	-	ON SHARED POST
2-20	WEST LEG	R1-2	36	X	30	-	1	-	-	-	3.9	-	ON SHARED POST
2-21	INNER CIRCLE	R6-1R	36	X	12	2	-	-	-	-	3.0	-	ON SHARED POST
	INNER CIRCLE	R6-4B	60	X	24						10.0		ON SHARED POST
2-22	INNER CIRCLE	R6-1R	36	X	12	2					3.0		ON SHARED POST
-	INNER CIRCLE	R6-4B	60	X	24	-	-	-	-	-	10.0	-	ON SHARED POST
2-23	INNER CIRCLE	R6-1R	36	X	12	2	-	-	-	-	3.0	-	ON SHARED POST
-	INNER CIRCLE	R6-4B	60	X	24	-	-	-	-	-	10.0	-	ON SHARED POST
2-24	INNER CIRCLE	R6-1R	36	X	12	2	-	-	-	-	3.0	-	ON SHARED POST
-	INNER CIRCLE	R6-4B	60	X	24	-	-	-	-	-	10.0	-	ON SHARED POST
2-25	SOUTH LEG	D1-3	84	X	30	2	-	-	-	-	17.5	-	CUSTOM SIGN
2-26	EAST LEG	D1-2	72	X	30	-	2	-	-	-	15.0	-	CUSTOM SIGN
3-01	SOUTH LEG	M1-5A	24	X	24	1	-	-	-	-	4.0	-	ON SHARED POST
-	SOUTH LEG	M2-1	21	X	15	-	-	-	-	-	2.2	-	ON SHARED POST
3-02	SOUTH LEG	W2-6	30	X	30	-	1	-	-	-	-	6.3	ON SHARED POST
-	SOUTH LEG	W3-1	18	X	18	-	-	-	-	-	-	2.3	ON SHARED POST
3-03	SOUTH LEG	W6-3	36	X	36	-	1	-	-	-	-	9.0	
3-04	SOUTH LEG	D1-62	96	X	78	-	-	-	3	-	52.0	-	CUSTOM SIGN
3-05	SOUTH LEG	J2-1	24	X	57	-	1	-	-	-	9.5		
3-06	SOUTH LEG	R5-1	30	X	30	-	1	-	-	-	6.3	-	
3-07	SOUTH LEG	R2-1	24	X	30	-	1	-	-	-	5.0	-	ON SHARED POST
3-08	SOUTH LEG	R4-7	24	X	30	-	-	-	-	-	5.0	-	ON SHARED POST
	SOUTH LEG	W5-56	18	X	18	1					2.3		ON SHARED POST
3-09	NORTH LEG	R2-1	24	X	30		1					5.0	ON SHARED POST
3-10	NORTH LEG	R5-1	30	X	30	-	-	-	-	-	6.3	-	ON SHARED POST
3-11	NORTH LEG	R4-7	24	X	30	1	-	-	-	-	5.0	-	ON SHARED POST
3-12	NORTH LEG	W5-56	18	X	18	1	-	-	-	-	2.3	-	ON SHARED POST
3-13	NORTH LEG	D1-62	96	X	78	-	-	-	3	-	52.0	-	CUSTOM SIGN
3-14	NORTH LEG	W6-3	36	X	36	-	1	-	-	-	-	9.0	
3-15	NORTH LEG	W2-6	30	X	30	-	-	1	-	-	-	6.3	ON SHARED POST
-	NORTH LEG	W3-1	18	X	18	-	-	-	-	-	-	2.3	ON SHARED POST
3-16	NORTH LEG	J1-7	48	X	39	-	-	1	-	-	13.0	-	ON SHARED POST
3-17	NORTH LEG	D1-2	72	X	30	-	-	-	-	-	-	-	TO BE INSTALLED BY OTHERS
3-18	NORTH LEG	D1-2	72	X	30	-	-	-	-	-	-	-	TO BE INSTALLED BY OTHERS
3-19	SOUTH LEG	D1-2	72	X	30								TO BE INSTALLED BY OTHERS
		SUB TOTAL 0010				17	12	2	6	0	281.3	40.2	
		TOTAL 0010				23	18	14	13	7	660.9	82.3	

REMOVING SIGNS ITEMS

SIGN #	LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
101	SW	1	1
102	SW	1	1
103	SW	1	2
104	SW	1	1
105	SW	1	1
106	SW	1	1
107	SW	1	1
108	SW	1	1
109	SW	1	2
110	SW	1	1
111	SE	1	1
112	SE	1	2
113	SE	1	1
114	SE	1	2
115	SE	1	1
116	SE	1	1
117	SE	1	1
118	SE	1	1
119	SE	1	1
120	SE	1	1
121	SE	1	1
122	NE	1	1
123	NE	1	2
124	NE	1	2
125	NE	1	2
126	NE	1	1
127	NE	1	1
128	NE	1	1
129	NE	1	1
130	NE	1	1
131	NE	1	1
132	NE	1	2
133	NE	1	1
134	NW	1	1
135	NW	1	1
136	NW	1	2
137	NW	1	2
138	NW	1	1
139	NW	1	2
140	NW	1	1
141	SE	1	2
	TOTAL 0010	41	53

TRAFFIC CONTROL ITEMS

LOCATION	643.0300 TRAFFIC CONTROL DRUMS NO.*	DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III NO.*	DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A NO.*	DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C NO.*	DAY	643.0900 TRAFFIC CONTROL SIGNS NO.*	DAY	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I EACH	643.0920** TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY
PROJECT OVERVIEW	-	-	1	100	2	200	-	-	-	-	-	-	12.5	-
DETAIL 1	-	-	2	200	4	400	-	-	25	2,500	-	1	12.5	-
DETAIL 2									6	600				
DETAIL 3									22	2,200				
DETAIL 4									101	10,100		2		
DETAIL 5									131	13,100				
DETAIL 6									61	6,100				
DETAIL 7			1	100	2	200			58	5,800	6	5		
DETAIL 8									87	8,700		6		
DETAIL 9	-	-	1	100	2	200	-	-	42	4,200	-	2	-	-
DETAIL 10	20	140	20	2,000	40	4,000	-	-	16	1,600	-	-	-	28
DETAIL 11	-	-	1	100	2	200	-	-	38	3,800	-	1	-	-
DETAIL 12	-	-	-	-	-	-	-	-	13	1,300	-	-	-	-
DETAIL 13	-	-	-	-	-	-	-	-	16	1,600	-	-	-	-
DETAIL 14	-	-	-	-	-	-	-	-	22	2,200	-	-	-	-
DETAIL 15	-	-	2	200	4	400	-	-	12	1,200	-	-	12.5	-
DETAIL 16	-	-	-	-	-	-	-	-	8	800	-	-	-	-
DETAIL 17	-	-	-	-	-	-	-	-	8	800	-	-	-	-
DETAIL 18	-	-	-	-	-	-	-	-	8	800	-	-	-	-
PROJECT LIMITS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UNDISTRIBUTED	50	5,000	-	-	-	-	20	2,000	-	-	-	-	-	-
TOTAL 0010		5,140		2,800		5,600		2,000		67,400	6	17	37.5	28

*INFORMATION ONLY
**ONE CYCLE FOR ALL TRAFFIC CONTROL COVERING SIGNS TYPE II

PAVEMENT MARKING ITEMS

STATION	TO	STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	YELLOW LF	646.3020 MARKING LINE EPOXY 8-INCH LF	646.6320 MARKING DOTTED EXTENSION EPOXY 18-INCH LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH LF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH
213+88 'NB'	-	222+25 'NB'	NORTH LEG	1,596	2,602	56	26	161	129	1
115+40 'EB'		126+35 'EB'	EAST LEG	2,007	3,278	83	24	245	120	1
204+75 'NB'		212+09 'NB'	SOUTH LEG	1,334	2,162	71	22	126	220	3
102+70 'EB'	-	113+82 'EB'	WEST LEG	2,067	3,282	104	22	185	233	3
			SUBTOTAL 0010	6,914	11,324					
			TOTAL 0010	18,238		314	94	717	692	8

3

CONSTRUCTION STAKING SLOPE STAKES

STATION	TO	STATION	LOCATION	650.9920 LF	REMARKS
102+70 FB	-	111+10 FB	CTH TW - RT	840	WEST LEG
102+70 FB	-	105+00 FB	CTH TW - LT	230	WEST LEG
105+00 WB	-	111+29 WB	CTH TW - LT	629	WEST LEG
117+05 EB	-	126+35 EB	STH 28 - RT	930	EAST LEG
118+15 WB	-	124+84 WB	STH 28 - LT	669	EAST LEG
124+72 EB	-	126+35 EB	STH 28 - LT	163	EAST LEG
204+75 NB	-	210+20 NB	STH 175 - RT	545	SOUTH LEG
204+75 NB	-	205+00 NB	STH 175 - LT	25	SOUTH LEG
205+00 SB	-	210+45 SB	STH 175 - LT	545	SOUTH LEG
215+75 NB	-	222+23 NB	STH 67 - RT	648	NORTH LEG
215+72 SB	-	221+92 SB	STH 67 - LT	620	NORTH LEG
221+90 NB	-	222+23 NB	STH 67 - LT	33	NORTH LEG
60+00 SW	-	64+70 SW	RT	470	INTERSECTION
50+00 SE	-	54+15 SE	RT	415	INTERSECTION
40+00 NE	-	45+00 NE	RT	500	INTERSECTION
30+00 NW	-	35+37 NW	RT	537	INTERSECTION
			TOTAL 0010	7,799	

CONSTRUCTION STAKING ITEMS

STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.8500.01 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (01. 4060-05-72) LS	650.9910.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (01. 4060-05-72) LS
213+76	-	221+90	NORTH LEG - SB	814	814	-	-
213+76	-	222+25	NORTH LEG - NB	849	849	-	-
215+71	-	224+83	EAST LEG - WB	912	912	-	-
215+42	-	226+40	EAST LEG - EB	1,098	1,098	-	-
205+00	-	212+10	SOUTH LEG - SB	710	710	-	-
205+00	-	212+09	SOUTH LEG - NB	709	709	-	-
102+75	-	113+81	WEST LEG - EB	1,106	1,106	-	-
105+00	-	114+13	WEST LEG - WB	913	913	-	-
21+00	-	21+00	CIRCLE	409	409	-	-
			PROJECT LIMITS			1	1
			TOTAL 0010	7,520	7,520	1	1

3

PULL BOXES NON-CONDUCTIVE 24X42-INCH

STATION	OFFSET	LOCATION	653.0154 EACH
211'NB'+72	32' RT	PB100	1
211'NB'+62	42' LT	PB101	1
113'EB'+54	31' RT	PB102	1
113'EB'+52	73' LT	PB103	1
214'NB'+51	36' LT	PB104	1
214'NB'+49	37' RT	PB105	1
116'EB'+03	65' LT	PB106	1
115'EB'+77	26' RT	PB107	1
		TOTAL 0010	8

CABINET

STATION	OFFSET	LOCATION	650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (01. 4060-05-72) LS	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EACH	656.0200.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL (01. STH 28) LS	659.2130 LIGHTING CONTROL CABINETS 120/240 30-INCH EACH
211'NB'+72	48' RT	CABINET	1	1	1	1
		TOTAL 0010	1	1	1	1

LIGHTING CONDUIT ITEMS

LOCATION	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
CABINET-PB107	--	30
PB107-PB100	--	125
PB100-PB101	--	75
PB101-PB102	--	110
PB102-PB103	--	105
PB103-PB104	--	135
PB104-PB105	--	75
PB105-PB106	--	140
PB106-PB107	--	100
SL114-PB107	40	--
PB100-SL115	10	--
SL115-SL100	115	--
SL100-SL101	220	--
SL102-PB102	75	--
PB102-SL103	20	--
SL103-SL104	155	--
SL104 SL105	165	
PB103 SL106	30	
SL107-PB104	15	--
PB104-SL108	150	--
SL108-SL109	160	--
SL110-PB106	65	--
SL111-PB106	15	--
SL111-SL112	135	--
SL112-SL113	165	--
TOTAL 0010	1,535	895

ELECTRICAL WIRE LIGHTING 8 AWG

CIRCUIT	FROM	TO	655.0620 LF
A	CABINET	SL115	400
A	SL115	SL101	690
A	SL115	SL103	520
A	SL103	SL105	680
B	CABINET	SL114	190
B	SL114	SL100	630
B	SL114	SL102	970
B	SL102	SL104	560
C	CABINET	SL111	360
C	SL111	SL113	520
C	SL111	SL107	590
C	SL107	SL109	710
D	CABINET	SL110	460
D	SL110	SL112	520
D	SL110	SL106	1010
D	SL106	SL108	670
GROUND	CABINET	SL114	95
GROUND	SL114	SL115	215
GROUND	SL115	SL100	120
GROUND	SL100	SL101	230
GROUND	SL115	SL103	260
GROUND	SL103	SL102	105
GROUND	SL103	SL104	165
GROUND	SL104	SL105	175
GROUND	CABINET	SL111	180
GROUND	SL111	SL112	155
GROUND	SL112	SL113	175
GROUND	SL111	SL110	105
GROUND	SL111	SL107	295
GROUND	SL107	SL106	225
GROUND	SL107	SL108	190
GROUND	SL108	SL109	165
TOTAL 0010			12,335

LIGHTING ITEMS

STATION	OFFSET	LOCATION	654.0105 CONCRETE BASES TYPE S EACH	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	657.0322 POLES TYPE S-ALUMINUM EACH	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	659.1115 LUMINAIRES UTILITY LED A EACH
210'NB'+57	22' RT	SL100	1	120	1	1	1
208'NB'+47	21' RT	SL101	1	120	1	1	1
211'NB'+87	67' LT	SL102	1	120	1	1	1
213'EB'+30	26' RT	SL103	1	120	1	1	1
211'LB'+74	22' RT	SL104	1	120	1	1	1
210'EB'+15	21' RT	SL105	1	120	1	1	1
213'EB'+39	65' LT	SL106	1	120	1	1	1
214'NB'+37	40' LT	SL107	1	120	1	1	1
215'NB'+92	41' LT	SL108	1	120	1	1	1
217'NB'+40	40' LT	SL109	1	120	1	1	1
215'EB'+62	47' LT	SL110	1	120	1	1	1
216'EB'+15	60' LT	SL111	1	120	1	1	1
217'EB'+58	44' LT	SL112	1	120	1	1	1
219'EB'+22	39' LT	SL113	1	120	1	1	1
212'NB'+33	73' RT	SL114	1	120	1	1	1
211'NB'+65	30' RT	SL115	1	120	1	1	1
		TOTAL 0010	16	1,920	16	16	16

SAWING ASPHALT

STATION	LOCATION	690.0150 LF
102+70 EB	MAINLINE (W LEG)	30
108+61 EB	DRIVEWAY ([NW W LEG)	12
222+25 SB	MAINLINE (N LEG)	30
126+35 EB	MAINLINE (E LEG)	30
204+75 NB	MAINLINE (S LEG)	30
205+35 SB	DRIVEWAY ([NW S LEG)	12
	TOTAL 0010	144

TRANSPORTATION PROJECT PLAT NO: 4060-05-22 - 4.01

THAT PART OF LOT 1 OF CERTIFIED SURVEY MAP 1384 RECORDED IN VOLUME 9 CSM ON PAGES 299-300 AS DOCUMENT NO. 645091, AND THAT PART OF LOT 2 OF CERTIFIED SURVEY MAP 3366 RECORDED IN VOLUME 20 CSM ON PAGES 78-79 AS DOCUMENT NO. 796598, AND THAT PART OF LOT 3 OF CERTIFIED SURVEY MAP 5603 RECORDED IN VOLUME 37 CSM ON PAGE 54 AS DOCUMENT NO. 1028621, ALL BEING IN THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4; AND ALSO THAT PART OF LOT 1 OF CERTIFIED SURVEY MAP 3451 RECORDED IN VOLUME 20 CSM ON PAGES 262-263 AS DOCUMENT NO. 801596, BEING IN AND INCLUDING A PART OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4; AND ALSO A PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4; ALL IN SECTION 3, TOWNSHIP 12 NORTH, RANGE 17 EAST, TOWN OF THERESA, DODGE COUNTY, WISCONSIN.

RELOCATION ORDER STH 28, HORICON - KEWASKUM (STH 67/175/TW INTERSECTION) DODGE COUNTY, WISCONSIN

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DODGE 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.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 28 ESTABLISHED FROM PREVIOUS PROJECT 3364-00-22, 4060-00-21, AND CSM 3451.

EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 67/STH 175 ESTABLISHED FROM PREVIOUS PROJECT 3364-00-22, CSM 1384, CSM 6023, CSM 3451, AND CSM 6095.

EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH TW ESTABLISHED FROM PREVIOUS PROJECT 3364-00-22, CSM 5603, AND CSM 1384.

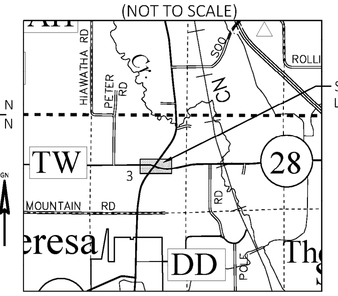
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

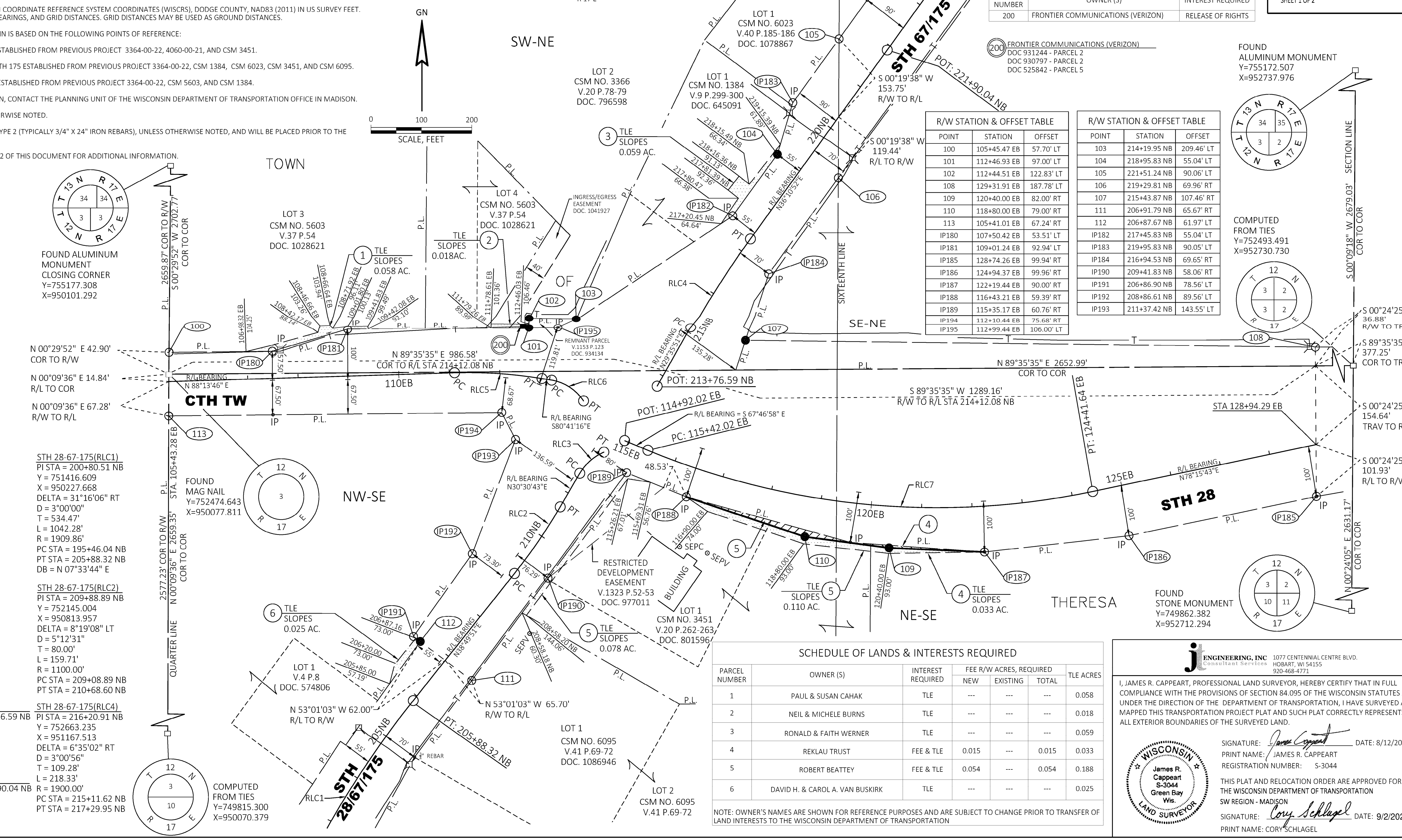
FOUND IRON PINS ARE 3/4" REBAR, UNLESS OTHERWISE NOTED.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

REFER TO TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF THIS DOCUMENT FOR ADDITIONAL INFORMATION.

PROJECT LOCATION
(NOT TO SCALE)





COURSE TABLE		
COURSE	BEARING	DISTANCE
COR-100	N 00°29'52" E	42.90'
100-IP180	N 89°24'00" E	204.99'
IP180-IP181	N 73°34'47" E	155.89'
	(N 72°44'30" E)	*(155.91')*
IP181-101	N 89°24'00" E	359.87'
101-102	N 00°50'33" E	25.98'
102-103	S 89°02'51" E	93.22'
103-IP182	N 56°37'17" E	372.24'
IP182-104	N 36°10'41" E	150.00'
104-IP183	N 16°53'17" E	105.95'
IP183-105	N 36°10'41" E	155.41'
105-106	S 00°19'38" W	273.19'
106-IP184	S 36°10'41" W	233.99'
IP184-107	S 18°06'08" W	148.49'
107-108	S 89°18'08" E	1131.09'
108-IP185	S 00°24'25" E	293.45'
IP185-IP186	S 78°15'33" W	379.89'
	(N 78°15'43" E)	*(379.89')*
IP186-IP187	S 83°39'45" W	288.54'
	(N 83°39'51" E)	*(288.54')*
IP187-109	N 87°33'08" W	189.67'
109-110	N 82°32'23" W	168.43'
110-IP188	N 71°33'01" W	248.11'
IP188-IP189	N 68°14'52" W	127.42'
	(NO RECORD)	*(NO RECORD)*
IP189-IP190	S 36°58'57" W	259.37'
	(N 36°09'31" E)	*(259.38')*
IP190-111	S 36°58'57" W	251.90'
111-112	N 53°01'03" W	127.70'
112-IP191	N 53°50'10" W	16.61'
IP191-IP192	N 35°40'46" E	200.01'
	(N 34°51'20" E)	*(200.01')*
IP192-IP193	N 20°54'07" E	240.43'
	(N 20°04'41" E)	*(240.43')*
IP193-IP194	N 27°06'16" W	59.94'
	(N 27°55'42" W)	*(60.00')*
IP194-113	S 89°24'00" W	660.99'
113-COR	N 0°09'36" E	82.12'
101-IP195	N 89°24'00" E	57.43'
IP195-103	N 56°37'17" E	43.31'

STH 28-67-175(RLC1)
PI STA = 200+80.51 NB
Y = 751416.609
X = 950227.668
DELTA = 31°16'06" RT
D = 3°00'00"
T = 534.47'
L = 1042.28'
R = 1909.86'
PC STA = 195+46.04 NB
PT STA = 205+88.32 NB
DB = N 07°33'44" E

STH 28-67-175(RLC2)
PI STA = 209+88.89 NB
Y = 752145.004
X = 950813.957
DELTA = 8°19'08" LT
D = 5°12'31"
T = 80.00'
L = 159.71'
R = 1100.00'
PC STA = 209+08.89 NB
PT STA = 210+68.60 NB

STH 28-67-175(RLC3)
PI STA = 211+78.46 NB
Y = 752308.574
X = 950910.353
DELTA = 36°55'09" RT
D = 57°17'45"
T = 33.38'
L = 64.44'
R = 100.00'
PC STA = 211+45.08 NB
PT STA = 212+09.52 NB
DA = N 67°25'52" E

STH 28-67-175
POT STA = 213+76.59 NB
Y = 752450.796
X = 951046.844

STH 28-67-175
POT STA = 221+90.04 NB
Y = 753122.811
X = 951503.640

STH 28-67-175(RLC4)
PI STA = 216+20.91 NB
Y = 752663.235
X = 951167.513
DELTA = 6°35'02" RT
D = 3°00'56"
T = 109.28'
L = 218.33'
R = 1900.00'
PC STA = 215+11.62 NB
PT STA = 217+29.95 NB

FOR INFORMATION ONLY
PI STA = 104+36.41 EB
Y = 752456.500
X = 949970.953
DELTA = 1°10'24" LT
D = 0°55'21"
T = 63.59'
L = 127.17'
R = 6210.00'
PC STA = 103+72.82 EB
PT STA = 105+00.00 EB
DB = N89°24'10"E
DA = N88°13'46"E

CTH TW/STH 28(RLC5)
PI STA = 111+97.95 EB
Y = 752480.031
X = 950732.124
DELTA = 11°04'59" RT
D = 6°21'58"
T = 87.32'
L = 174.09'
R = 900.00'
PC STA = 111+10.63 EB
PT STA = 112+84.72 EB

CTH TW/STH 28(RLC6)
PI STA = 113+45.22 EB
Y = 752456.111
X = 950877.998
DELTA = 46°44'43" RT
D = 60°18'41"
T = 41.06'
L = 77.51'
R = 95.00'
PC = 113+04.16 EB
PT = 113+81.67 EB
DA = S 33°56'32" E

CTH TW/STH 28
POT STA = 114+92.02 EB
Y = 752343.956
X = 950982.320

CTH TW/STH 28(RLC7)
PI STA = 120+05.47 EB
Y = 752149.810
X = 951457.650
DELTA = 33°57'19" LT
D = 3°46'28"
T = 463.45'
L = 899.61'
R = 1518.00'
PC STA = 115+42.02 EB
PT STA = 124+41.63 EB
DB = S67°46'58"E

DOCUMENT#: **1295474**
Recorded: **09-09-2020 at 10:19 AM**
CHRIS PLANASCH, REGISTER OF DEEDS
DODGE COUNTY , WI
Fee Amount: **$25.00** Pages: 2
***The above recording information verifies this document has been electronically recorded and Returned to: **WisDOT - SW Region - Madison PO# 395**

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4060-05-22 - 4.01
SHEET 1 OF 2

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS (VERIZON)	RELEASE OF RIGHTS

(200) FRONTIER COMMUNICATIONS (VERIZON)
DOC 931244 - PARCEL 2
DOC 930797 - PARCEL 2
DOC 525842 - PARCEL 5

R/W STATION & OFFSET TABLE		
POINT	STATION	OFFSET
100	105+45.47 EB	57.70' LT
101	112+46.93 EB	97.00' LT
102	112+44.51 EB	122.83' LT
108	129+31.91 EB	187.78' LT
109	120+40.00 EB	82.00' RT
110	118+80.00 EB	79.00' RT
113	105+41.01 EB	67.24' RT
IP180	107+50.42 EB	53.51' LT
IP181	109+01.24 EB	92.94' LT
IP185	128+74.26 EB	99.94' RT
IP186	124+94.37 EB	99.96' RT
IP187	122+19.44 EB	90.00' RT
IP188	116+43.21 EB	59.39' RT
IP189	115+35.17 EB	60.76' RT
IP194	112+10.44 EB	75.68' RT
IP195	112+99.44 EB	106.00' LT

R/W STATION & OFFSET TABLE		
POINT	STATION	OFFSET
103	214+19.95 NB	209.46' LT
104	218+95.83 NB	55.04' LT
105	221+51.24 NB	90.06' LT
106	219+29.81 NB	69.96' RT
107	215+43.87 NB	107.46' RT
111	206+91.79 NB	65.67' RT
112	206+87.67 NB	61.97' LT
IP182	217+45.83 NB	55.04' LT
IP183	219+95.83 NB	90.05' LT
IP184	216+94.53 NB	69.65' RT
IP190	209+41.83 NB	58.06' RT
IP191	206+86.90 NB	78.56' LT
IP192	208+86.61 NB	89.56' LT
IP193	211+37.42 NB	143.55' LT

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	FEE R/W ACRES, REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
1	PAUL & SUSAN CAHAK	TLE	---	---	---	0.058
2	NEIL & MICHELE BURNS	TLE	---	---	---	0.018
3	RONALD & FAITH WERNER	TLE	---	---	---	0.059
4	REKLAU TRUST	FEE & TLE	0.015	---	0.015	0.033
5	ROBERT BEATTEY	FEE & TLE	0.054	---	0.054	0.188
6	DAVID H. & CAROL A. VAN BUSKIRK	TLE	---	---	---	0.025

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

JT ENGINEERING, INC Consultant Services
1077 CENTENNIAL CENTRE BLVD.
HOBART, WI 54155
920-468-4771

I, JAMES R. CAPPEART, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN James R. Cappeart S-3044 Green Bay Wis. LAND SURVEYOR

SIGNATURE: [signature] DATE: 8/12/2020
PRINT NAME: JAMES R. CAPPEART
REGISTRATION NUMBER: S-3044

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SW REGION - MADISON
SIGNATURE: [signature] DATE: 9/2/2020
PRINT NAME: CORY SCHLAGEL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
4060-05-22
HORICON - KEWASKUM
STH 67/175/TW INTERSECTION
STH 28
DODGE COUNTY

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING — TO BE REMOVED
BRIDGE

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED)
FOUND CHISLED X

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	□
TELEPHONE POLE	●	○
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	▼	▽

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER 25
UTILITY NUMBER 40
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

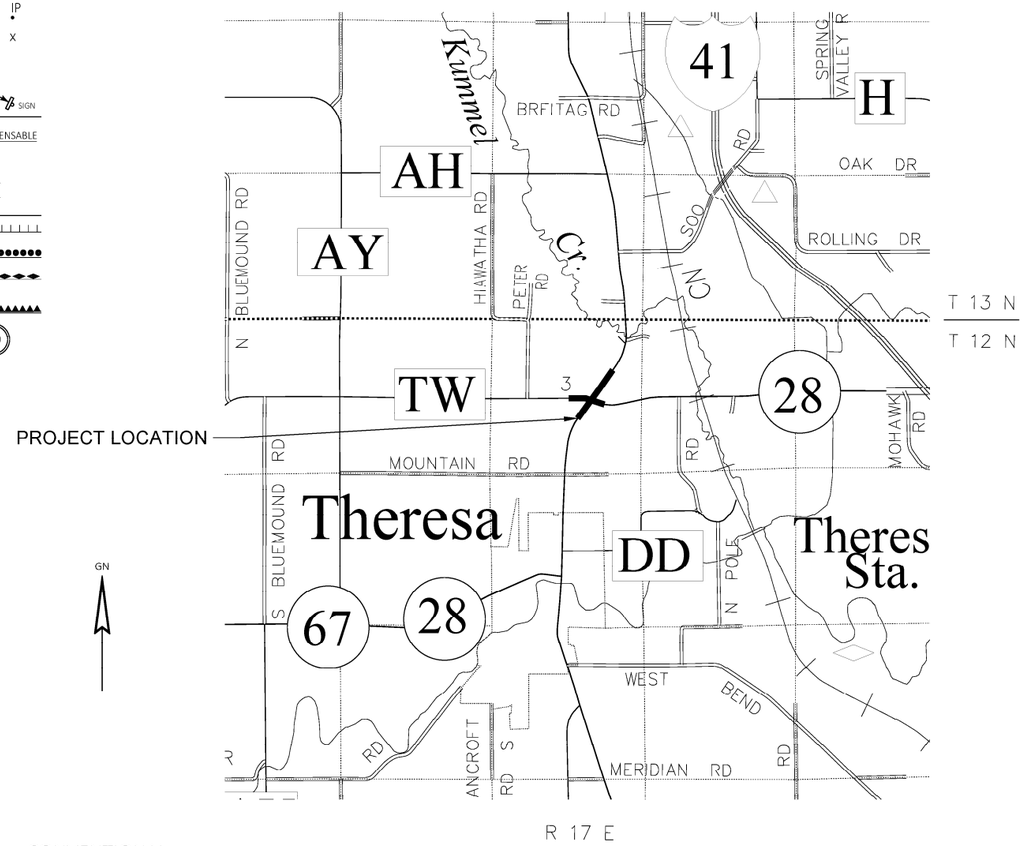
ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE	CONC	SECTION	SEC
COUNTY	CO	SEPTIC VENT	SEPV
COUNTY TRUNK HIGHWAY	CTH	SQUARE FEET	SF
DISTANCE	DIST	STATE TRUNK HIGHWAY	STH
CORNER	COR	STATION	STA
DOCUMENT NUMBER	DOC	TELEPHONE PEDESTAL	TP
EASEMENT	EASE	TEMPORARY LIMITED EASEMENT	TLE
EXISTING	EX	TRANSPORTATION PROJECT PLAT	TPP
GAS VALVE	GV	UNITED STATES HIGHWAY	USH
GRID NORTH	GN	VOLUME	V
HIGHWAY EASEMENT	HE		
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

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



LAYOUT
SCALE 0 0.5 MI.

THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 4060-05-22

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY REFERENCE SYSTEM COORDINATES (WISCRS) , DODGE COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

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

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

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

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

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

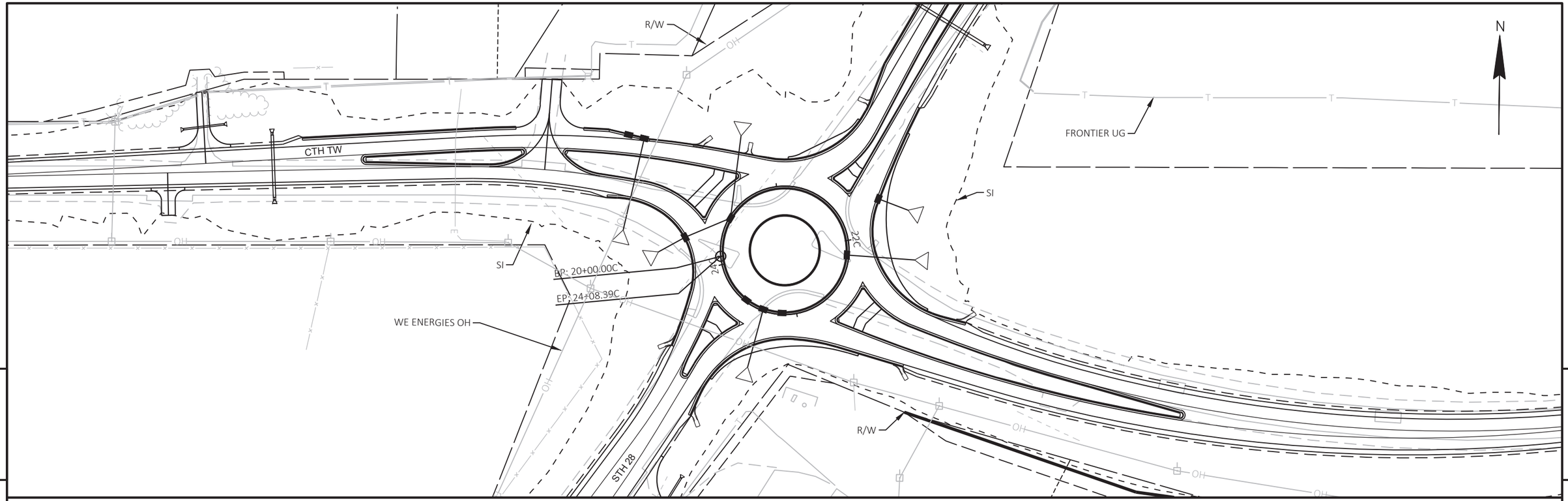
PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

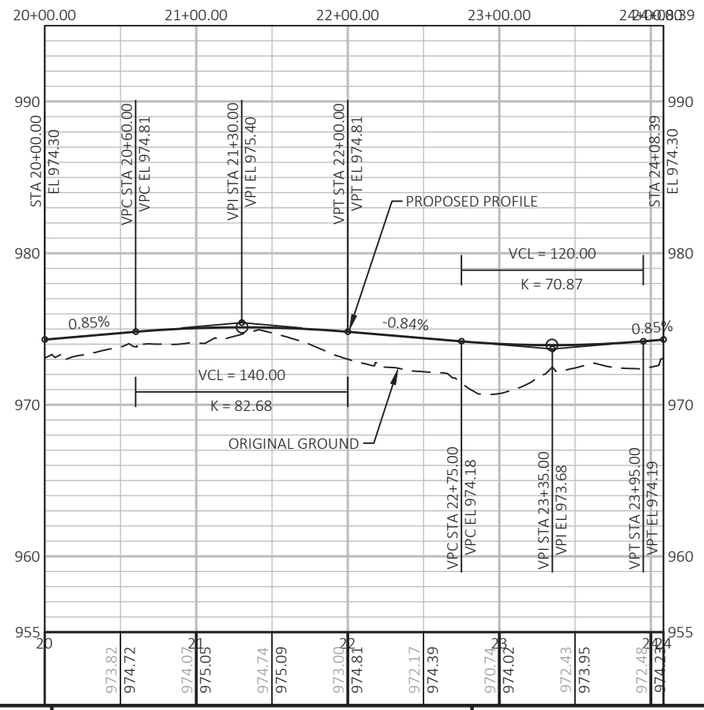
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

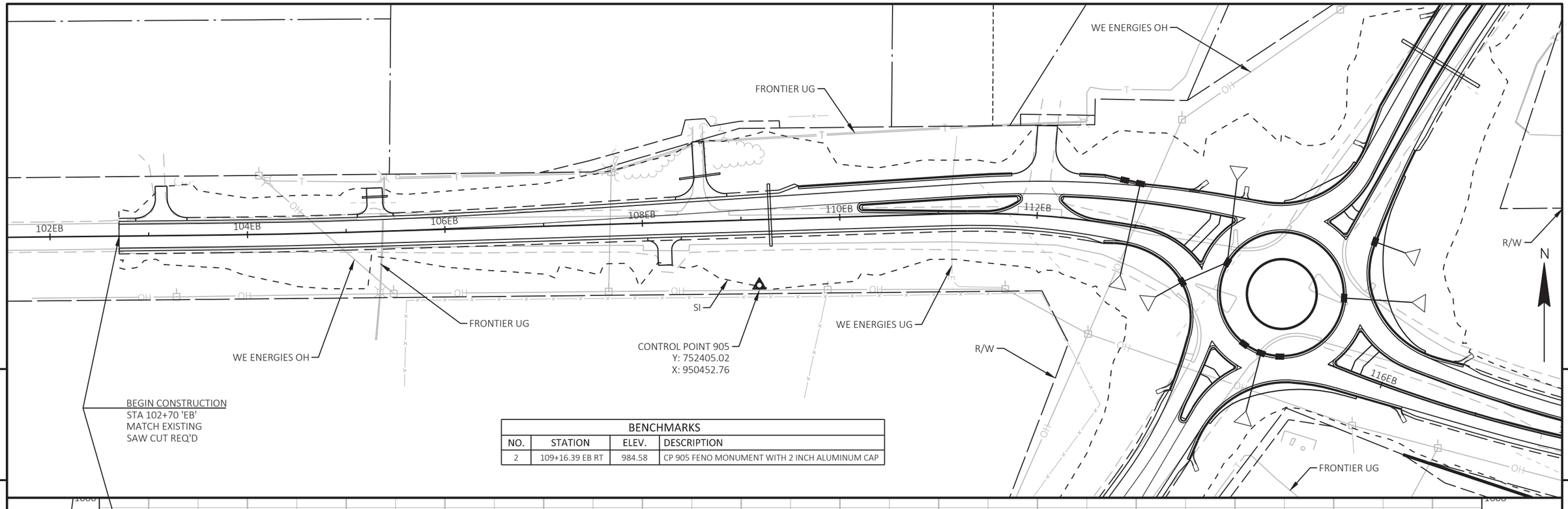
INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON THE TPP DETAIL PAGE(S).

PROJECT NUMBER 4060-05-22 - 4. 01
SHEET 2 OF 2
AMENDMENT NO:

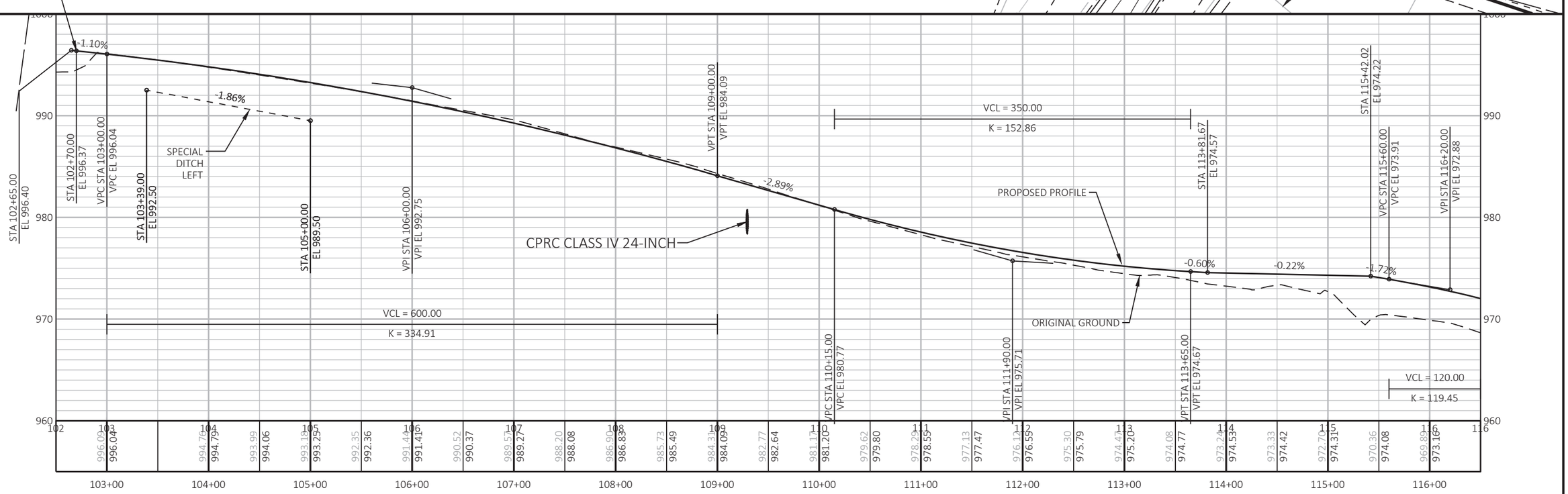




PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: CIRCLE	SHEET 72	E

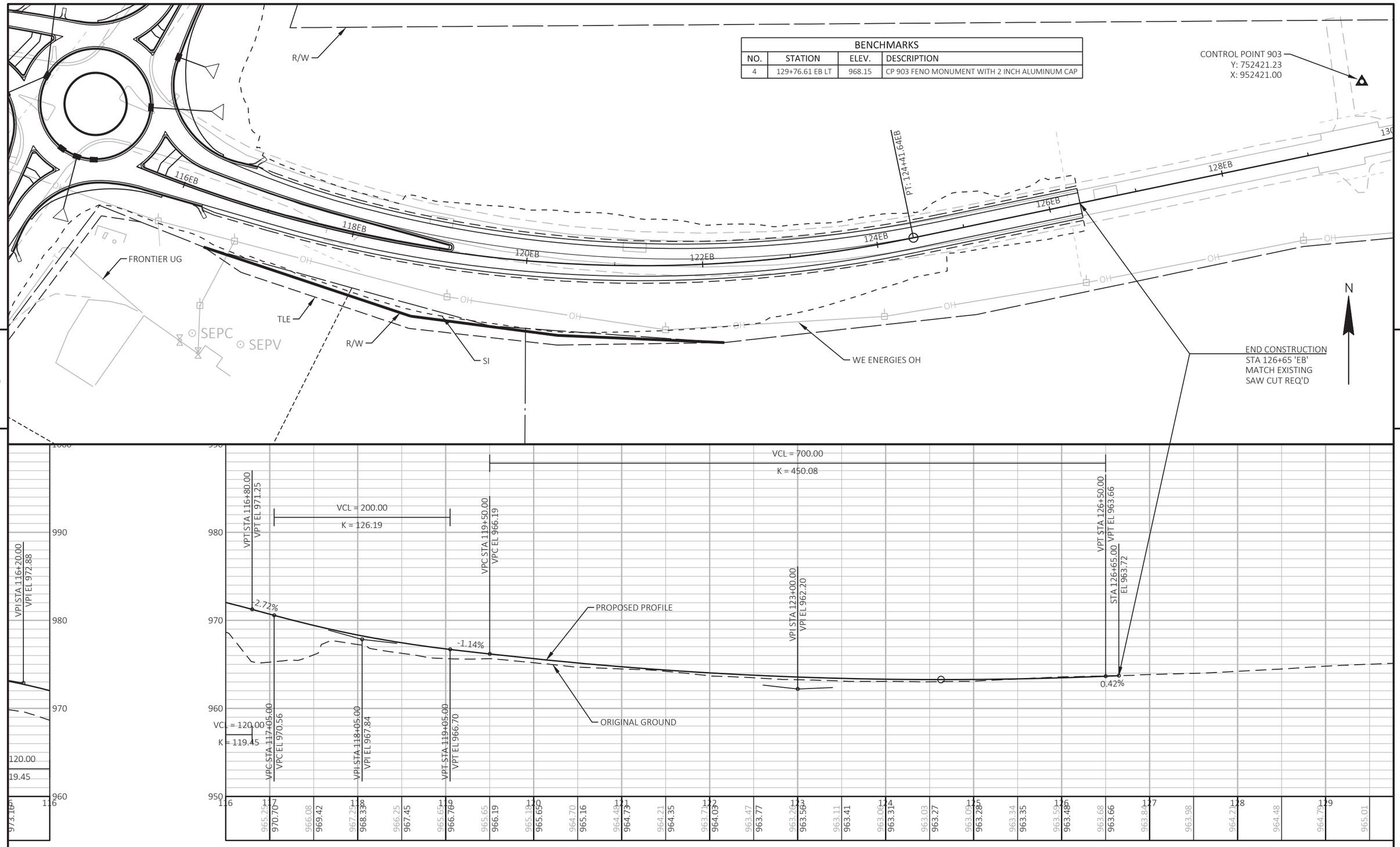


BENCHMARKS			
NO.	STATION	ELEV.	DESCRIPTION
2	109+16.39 EB RT	984.58	CP 905 FENO MONUMENT WITH 2 INCH ALUMINUM CAP



PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: EB	SHEET 73	E

BENCHMARKS			
NO.	STATION	ELEV.	DESCRIPTION
4	129+76.61 EB LT	968.15	CP 903 FENO MONUMENT WITH 2 INCH ALUMINUM CAP



PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: EB	SHEET 74	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\050101 - PLAN PROFILE\050101_PP_EB.DWG
LAYOUT NAME - 050101_pp_EB-2

PLOT DATE : 10/11/2021 2:08 PM PLOT BY : ARENSDORF, JAROD P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

INSTALL CPCS 18-INCH
UP INVERT: 105+17.5 WB, -35.0 LT, EL:989.16
DOWN INVERT: 105+43.0 WB, -35.1 LT, EL:988.66
LENGTH: 25 FT
SLOPE: 1.97%

INSTALL CPRC CLASS IV 24-INCH
UP INVERT: 109+29.7 WB, -24.9 LT, EL:978.89
DOWN INVERT: 109+28.5 WB, 38.0 RT, EL:978.33
LENGTH: 63 FT
SLOPE: 0.88%

INSTALL CPCS 18-INCH
UP INVERT: 108+40.4 WB, -35.7 LT, EL:982.05
DOWN INVERT: 108+81.7 WB, -38.6 LT, EL:980.50
LENGTH: 41 FT
SLOPE: 3.73%

CONTROL POINT 905
Y: 752405.02
X: 950452.76

INTERSECT 'EB' ALIGNMENT (STA 105+00 'EB')
STA 105+00 'WB'

BENCHMARKS

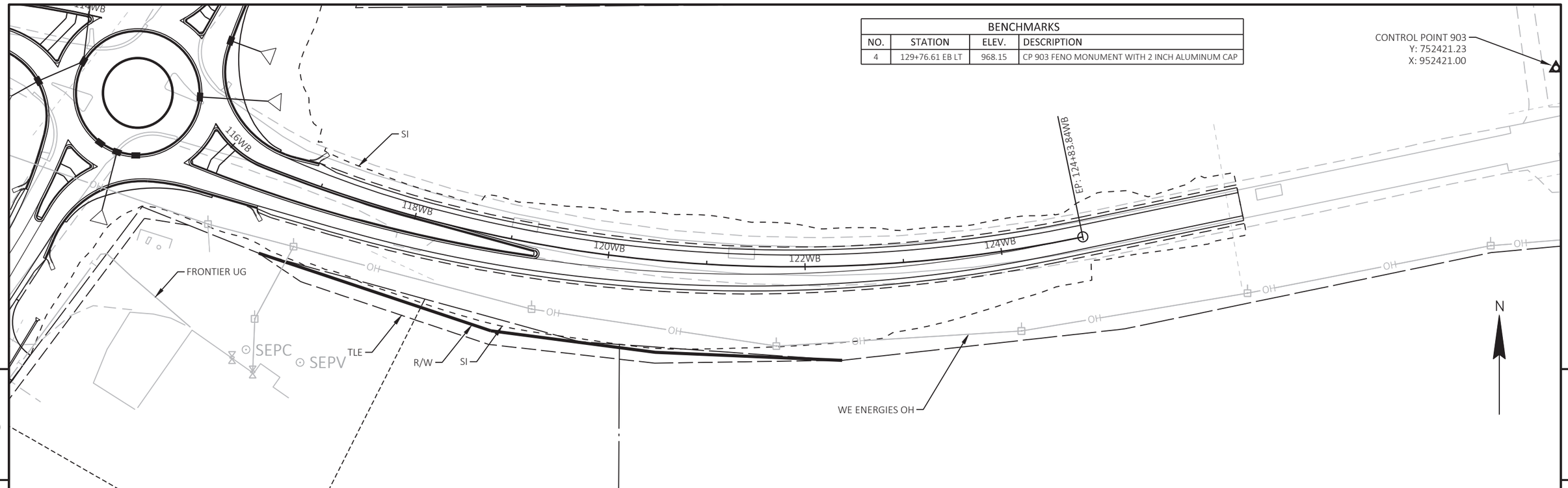
NO.	STATION	ELEV.	DESCRIPTION
2	109+13.94 WB RT	984.58	CP 905 FENO MONUMENT WITH 2 INCH ALUMINUM CAP

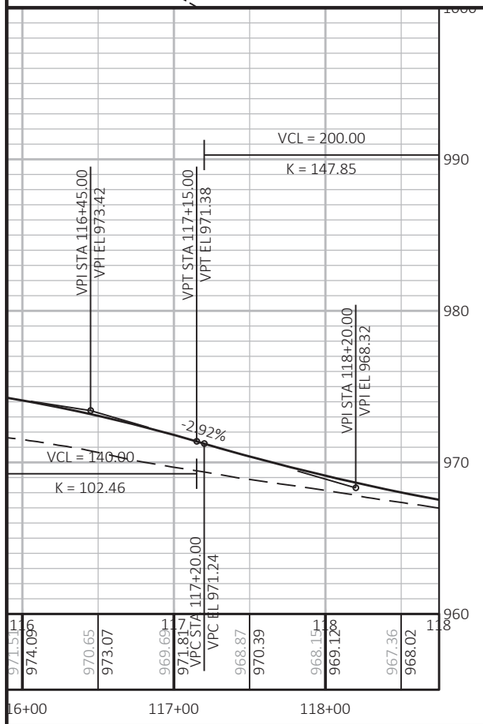
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: WB	SHEET 75	E

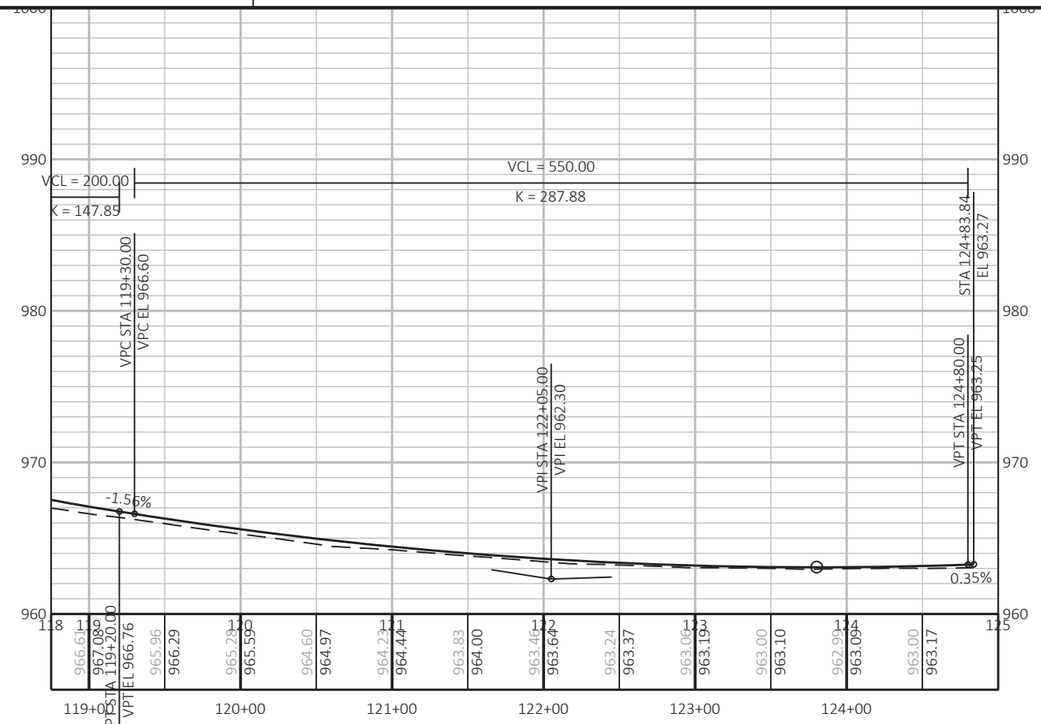
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\050101 - PLAN PROFILE\050101_PP_WB.DWG
LAYOUT NAME - 050101_pp_WB-1
PLOT DATE : 10/11/2021 2:10 PM
PLOT BY : ARENSDORF, JAROD P
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

BENCHMARKS			
NO.	STATION	ELEV.	DESCRIPTION
4	129+76.61 EB LT	968.15	CP 903 FENO MONUMENT WITH 2 INCH ALUMINUM CAP

CONTROL POINT 903
Y: 752421.23
X: 952421.00



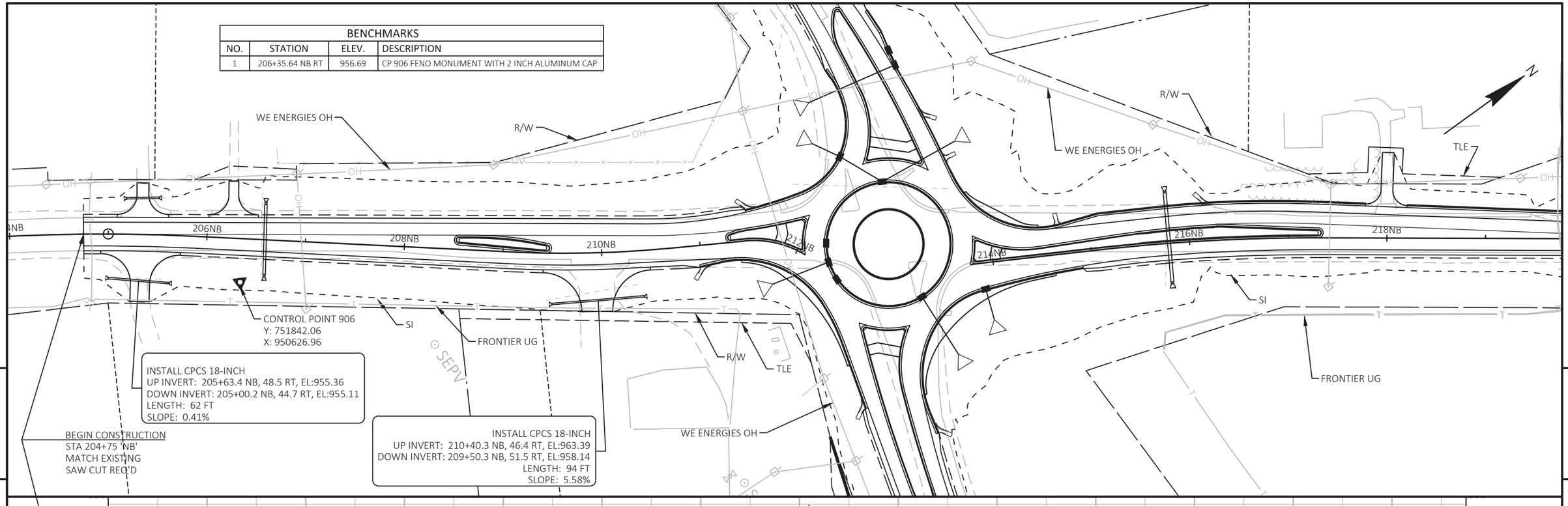


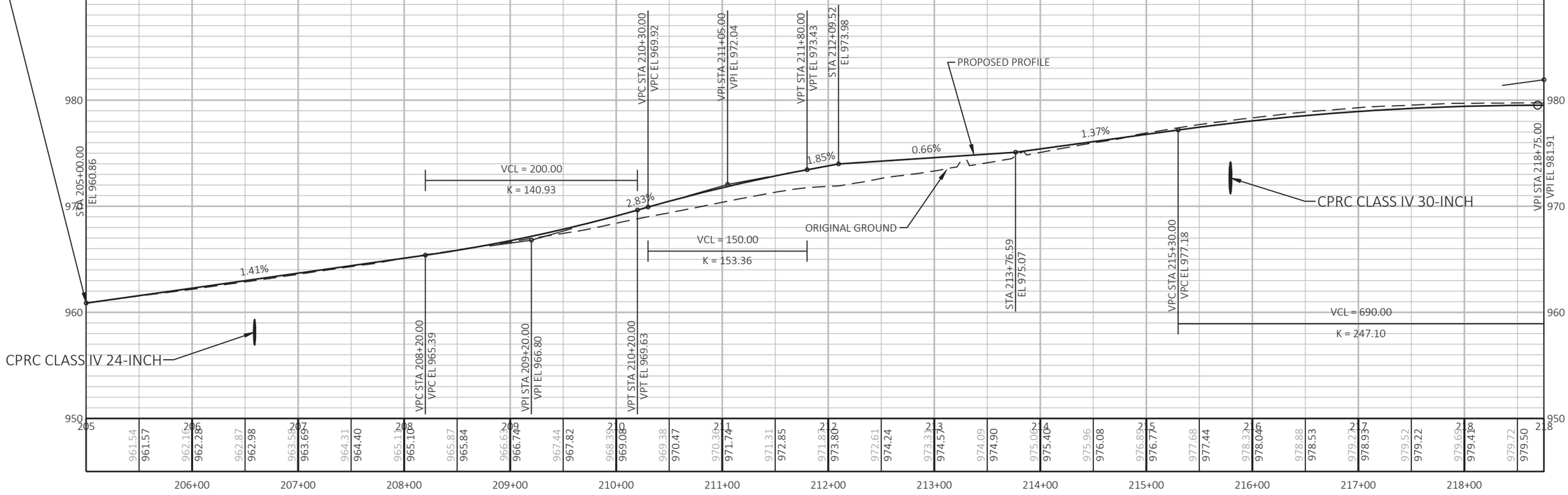


PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: WB	SHEET 76	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\050101 - PLAN PROFILE\050101_PP_WB.DWG
LAYOUT NAME - 050101_pp_WB-2
PLOT DATE : 10/11/2021 2:10 PM
PLOT BY : ARENSDORF, JAROD P
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

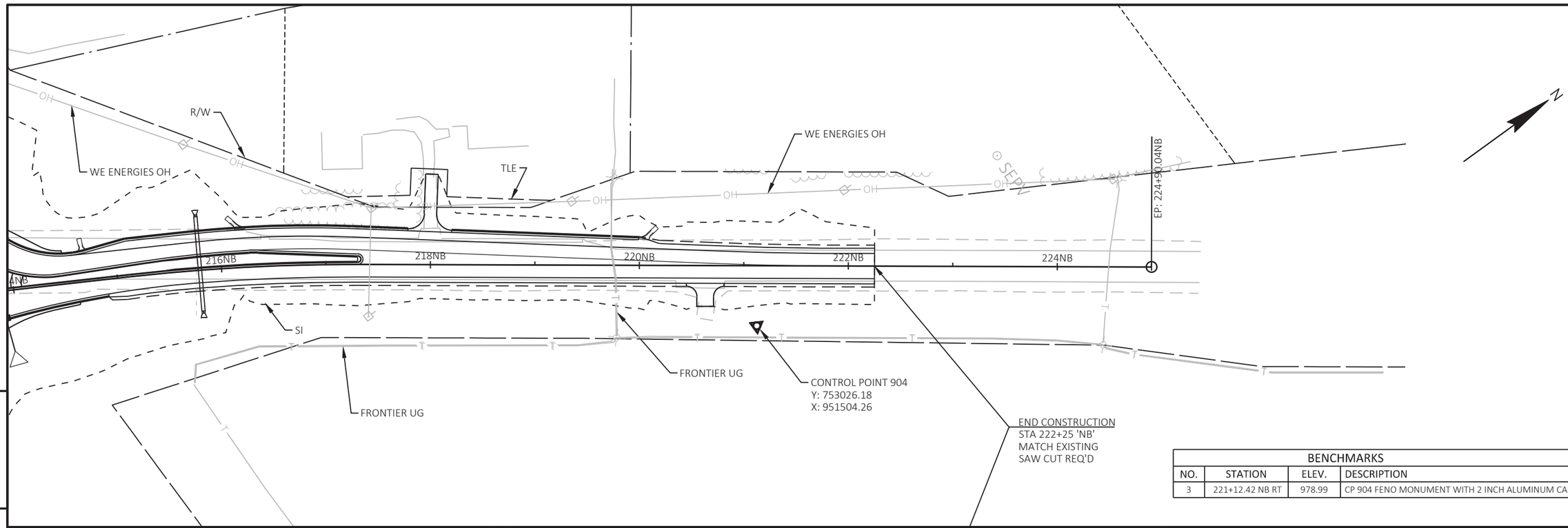
BENCHMARKS			
NO.	STATION	ELEV.	DESCRIPTION
1	206+35.64 NB RT	956.69	CP 906 FENO MONUMENT WITH 2 INCH ALUMINUM CAP



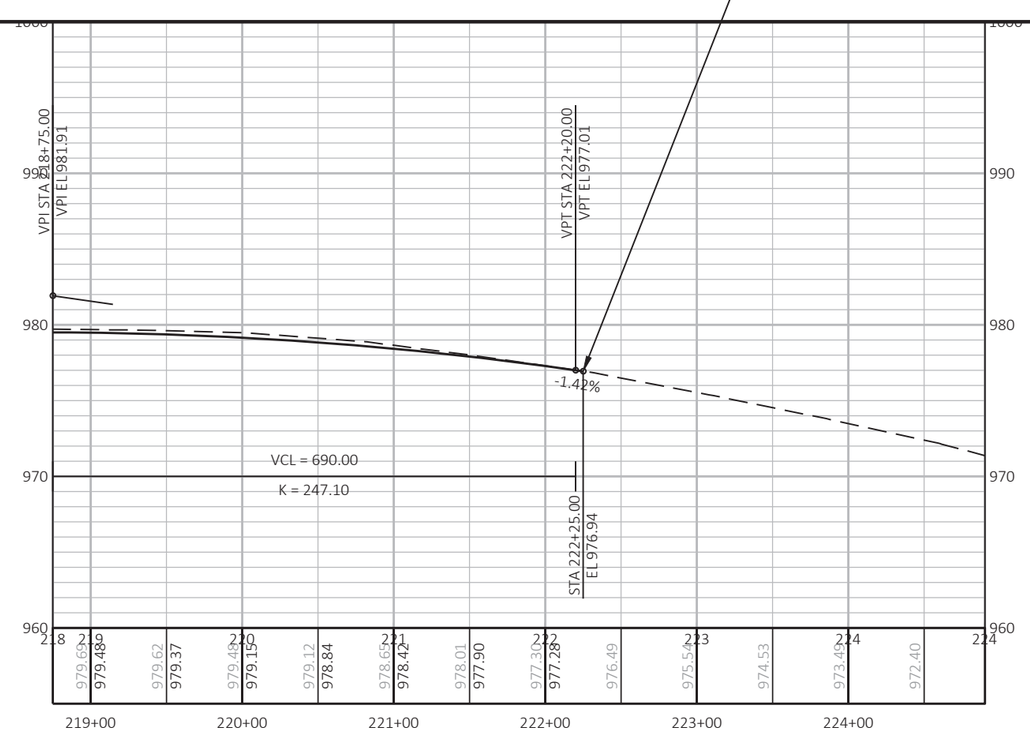


PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: NB	SHEET 77 E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\050101 - PLAN PROFILE\050101_PP_NB.DWG
LAYOUT NAME - 050101_pp_NB-1
PLOT DATE : 10/11/2021 2:13 PM
PLOT BY : ARENSDORF, JAROD P
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



BENCHMARKS			
NO.	STATION	ELEV.	DESCRIPTION
3	221+12.42 NB RT	978.99	CP 904 FENO MONUMENT WITH 2 INCH ALUMINUM CAP



PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: NB	SHEET 78	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\050101 - PLAN PROFILE\050101_PP_NB.DWG
LAYOUT NAME - 050101_pp_NB-2

PLOT DATE : 10/11/2021 2:13 PM PLOT BY : ARENSDORF, JAROD P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

INSTALL CPCS 18-INCH
UP INVERT: 205+51.5 SB, -36.8 LT, EL:959.18
DOWN INVERT: 205+18.5 SB, -36.2 LT, EL:959.11
LENGTH: 33 FT
SLOPE: 0.21%

INSTALL CPRC CLASS IV 24-INCH
UP INVERT: 206+59.6 SB, -30.5 LT, EL:957.88
DOWN INVERT: 206+57.9 SB, 40.3 RT, EL:956.39
LENGTH: 71 FT
SLOPE: 2.11%

INSTALL CPRC CLASS IV 30-INCH
UP INVERT: 215+79.8 SB, -36.0 LT, EL:972.78
DOWN INVERT: 215+78.5 SB, 54.7 RT, EL:970.36
LENGTH: 91 FT
SLOPE: 2.67%

R/W
WE ENERGIES OH
TLE
206SB
208SB
210SB
212SB
214SB
216SB
218SB
BP: 205+00.00SB
FRONTIER UG
SI
SEPV
CONTROL POINT 906
Y: 751842.06
X: 950626.96
INTERSECT 'NB' ALIGNMENT (STA 205+00 'NB')
STA 205+00 'SB'

BENCHMARKS			
NO.	STATION	ELEV.	DESCRIPTION
1	206+33.51 SB RT	956.69	CP 906 FENO MONUMENT WITH 2 INCH ALUMINUM CAP

NO.	
3	2

PROPOSED PROFILE
ORIGINAL GROUND
CPRC CLASS IV 24-INCH
CPRC CLASS IV 30-INCH
STA 205+00.00 EL 960.86
1.41%
VCL = 200.00
K = 139.06
VPC STA 208+20.00 VPC EL 965.39
VPI STA 209+20.00 VPI EL 966.80
VPT STA 210+20.00 VPT EL 969.65
2.85%
VPC STA 210+30.00 VPC EL 969.94
VPI STA 211+05.00 VPI EL 972.08
VPT STA 211+80.00 VPT EL 973.49
STA 212+12.15 EL 974.10
1.89%
VCL = 150.00
K = 155.23
0.63%
STA 213+77.77 EL 975.14
VPC STA 215+38.41 VPC EL 977.30
1.35%
VCL = 645.00
K = 245.44
VPI STA 218+60.91 VPI EL 981.65

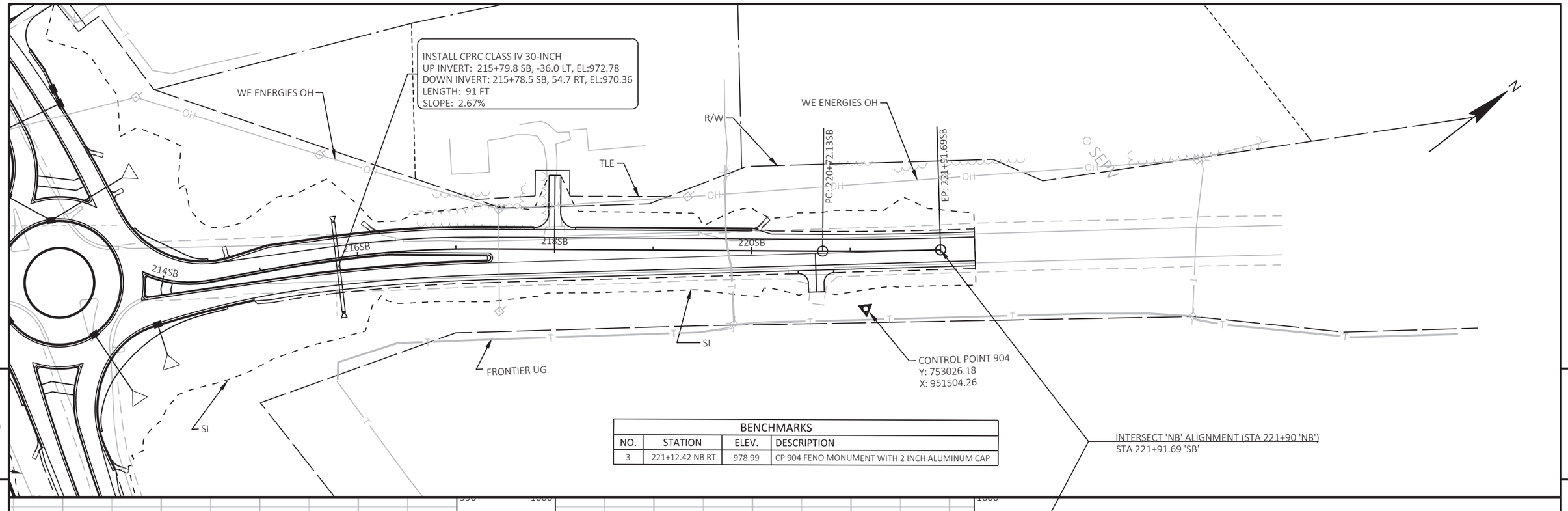
205	206	207	208	209	210	211	212	213	214	215	216	217	218
961.56	961.57	962.28	962.28	962.95	962.98	963.70	963.69	964.47	964.40	965.29	965.10	966.09	965.84
966.91	966.79	967.79	967.83	968.74	969.00	969.64	970.49	970.54	971.77	971.75	973.87	972.82	974.33
973.83	974.65	974.72	974.96	975.49	975.44	976.24	976.11	977.22	976.79	977.74	977.46	978.18	978.06
978.71	978.55	978.99	978.95	979.27	979.24	979.47	979.44	979.54	979.53				

206+00 207+00 208+00 209+00 210+00 211+00 212+00 213+00 214+00 215+00 216+00 217+00 218+00

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: SB	SHEET 79 E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\050101 - PLAN PROFILE\050101_PP_SB.DWG
LAYOUT NAME - 050101_pp_SB-1
PLOT DATE : 10/11/2021 2:15 PM
PLOT BY : ARENSDORF, JAROD P
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

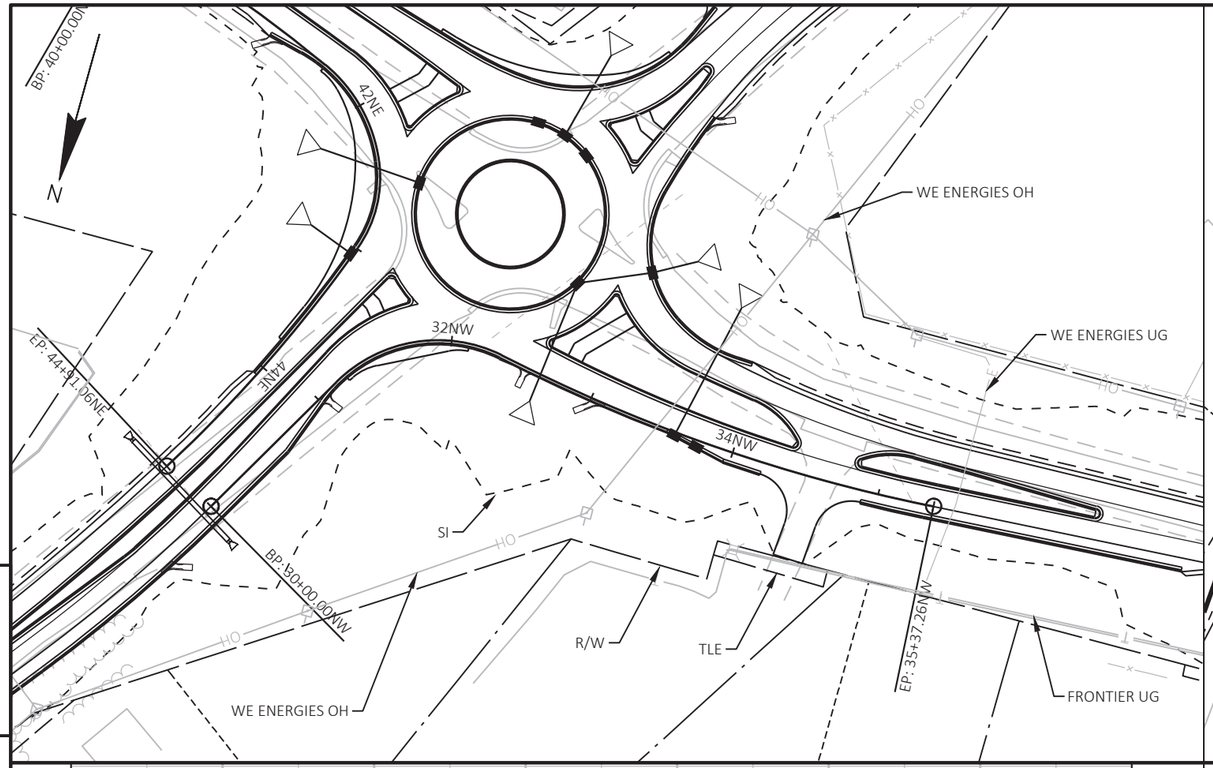


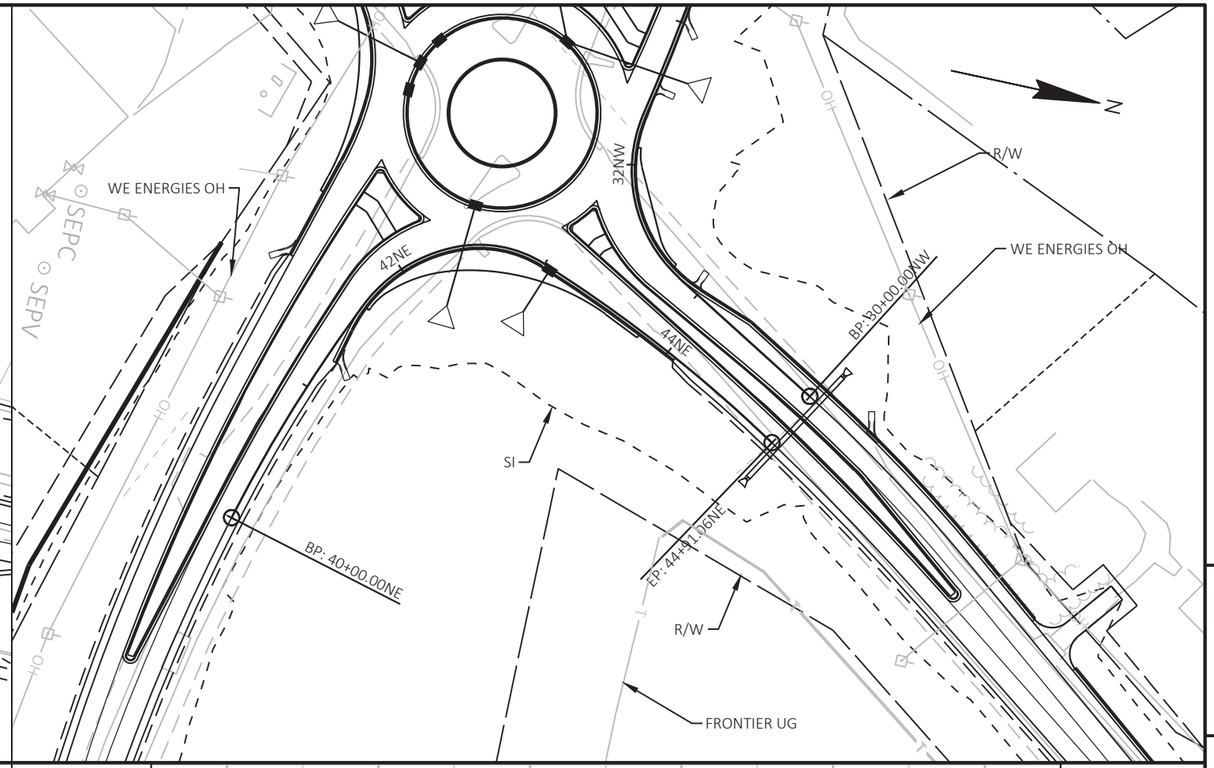
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: SB	SHEET 80 E

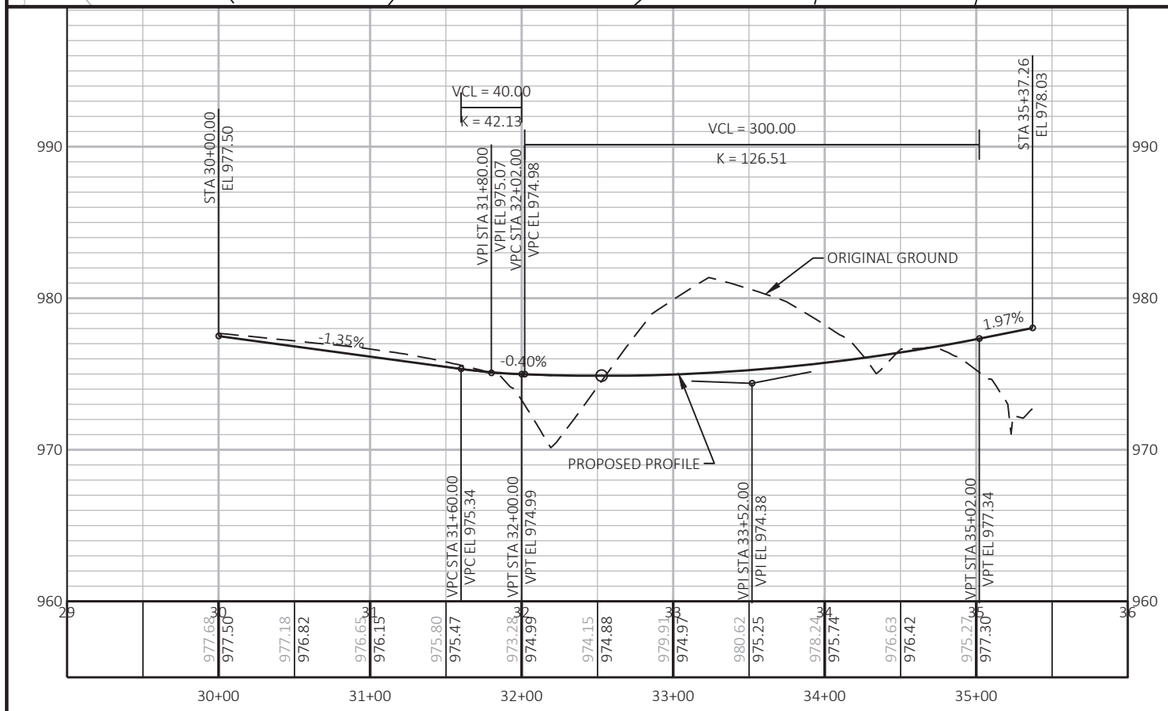
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\050101 - PLAN PROFILE\050101_PP_SB.DWG
LAYOUT NAME - 050101_pp_SB-2

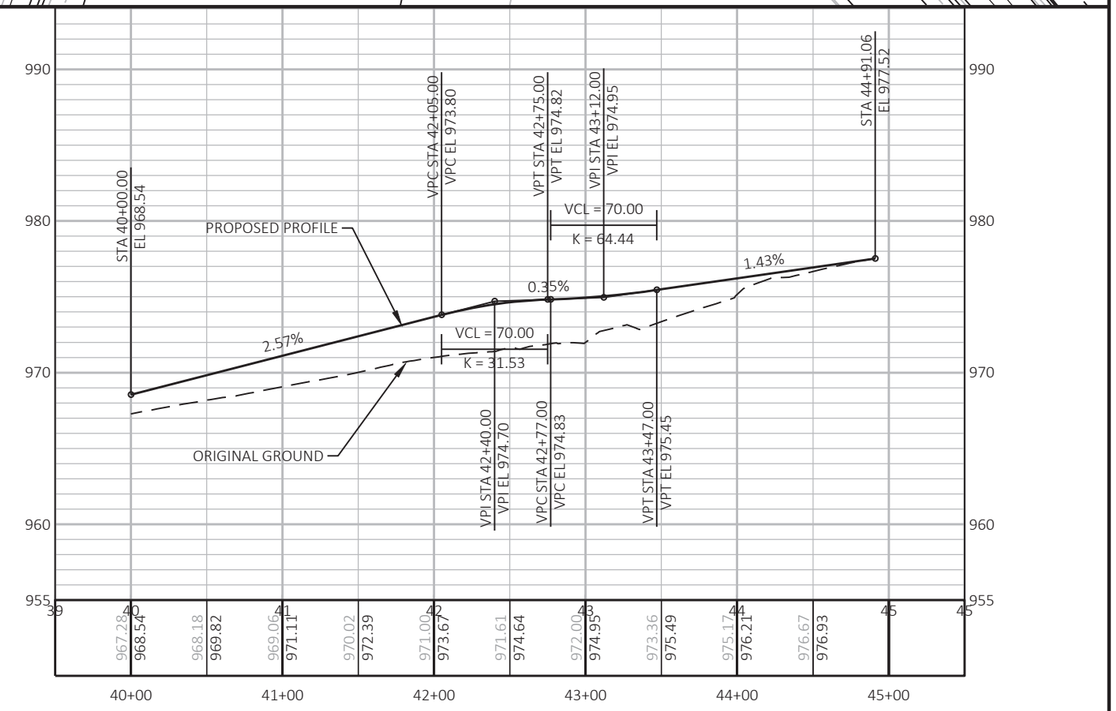
PLOT DATE : 10/11/2021 2:16 PM PLOT BY : ARENSDORF, JAROD P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

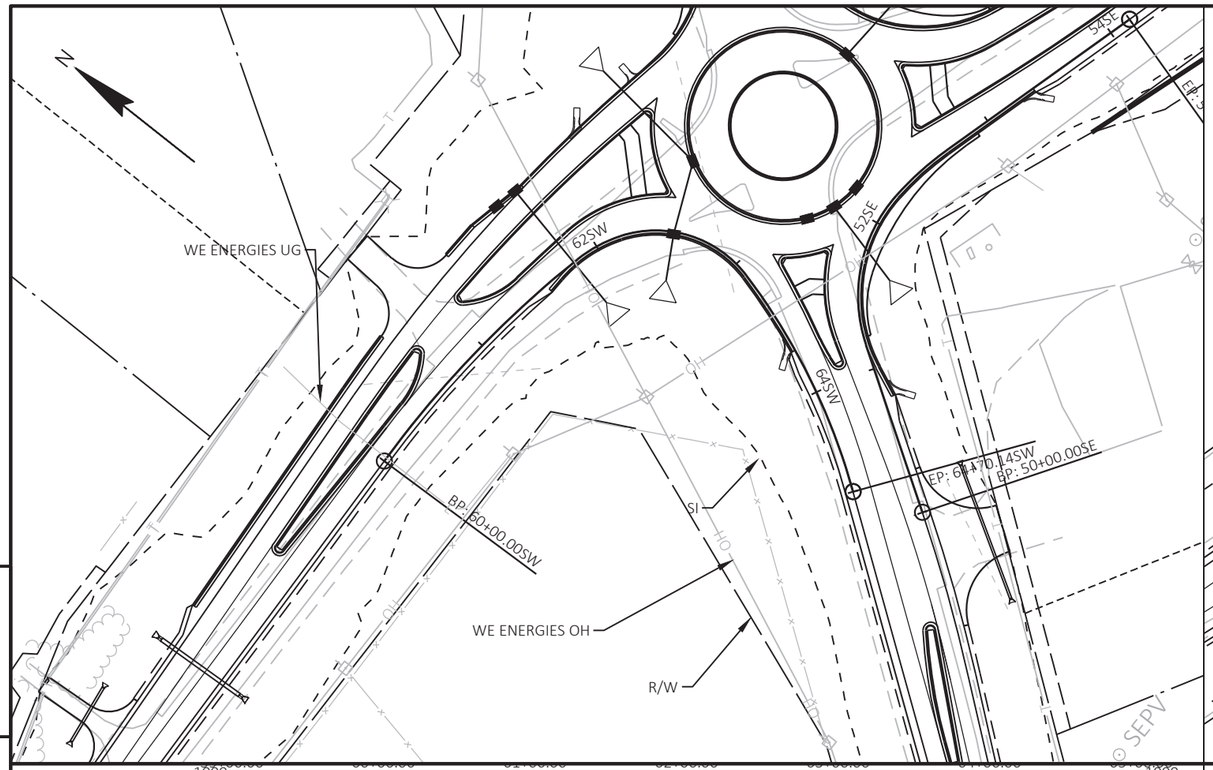


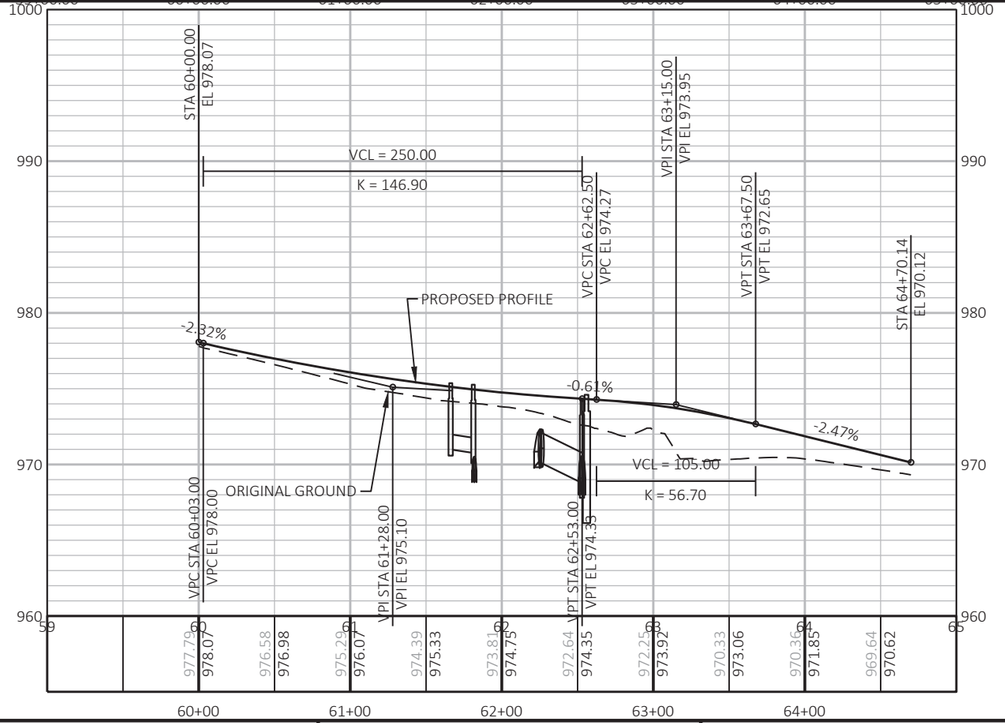


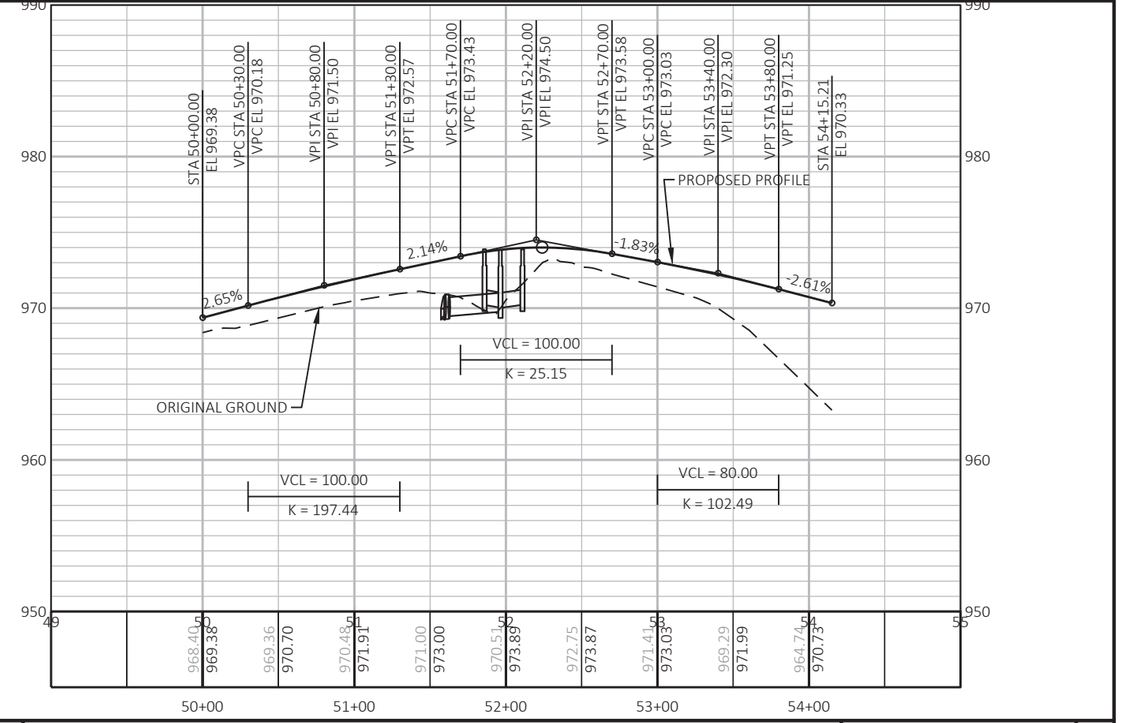




PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: NW & NE	SHEET 81	E

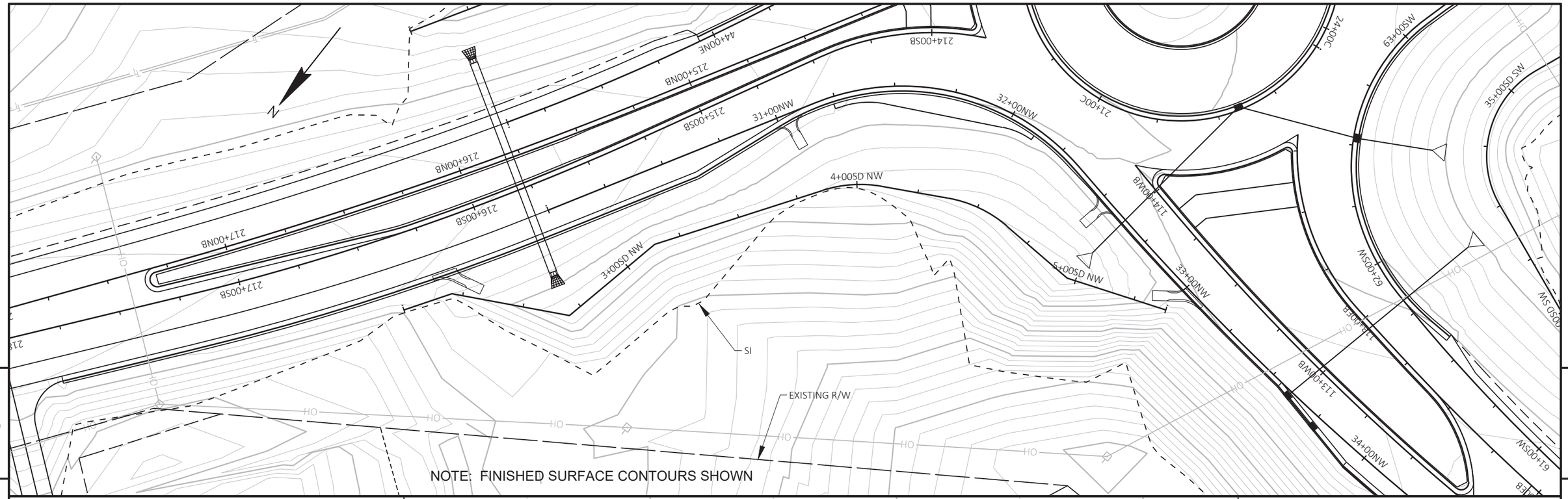


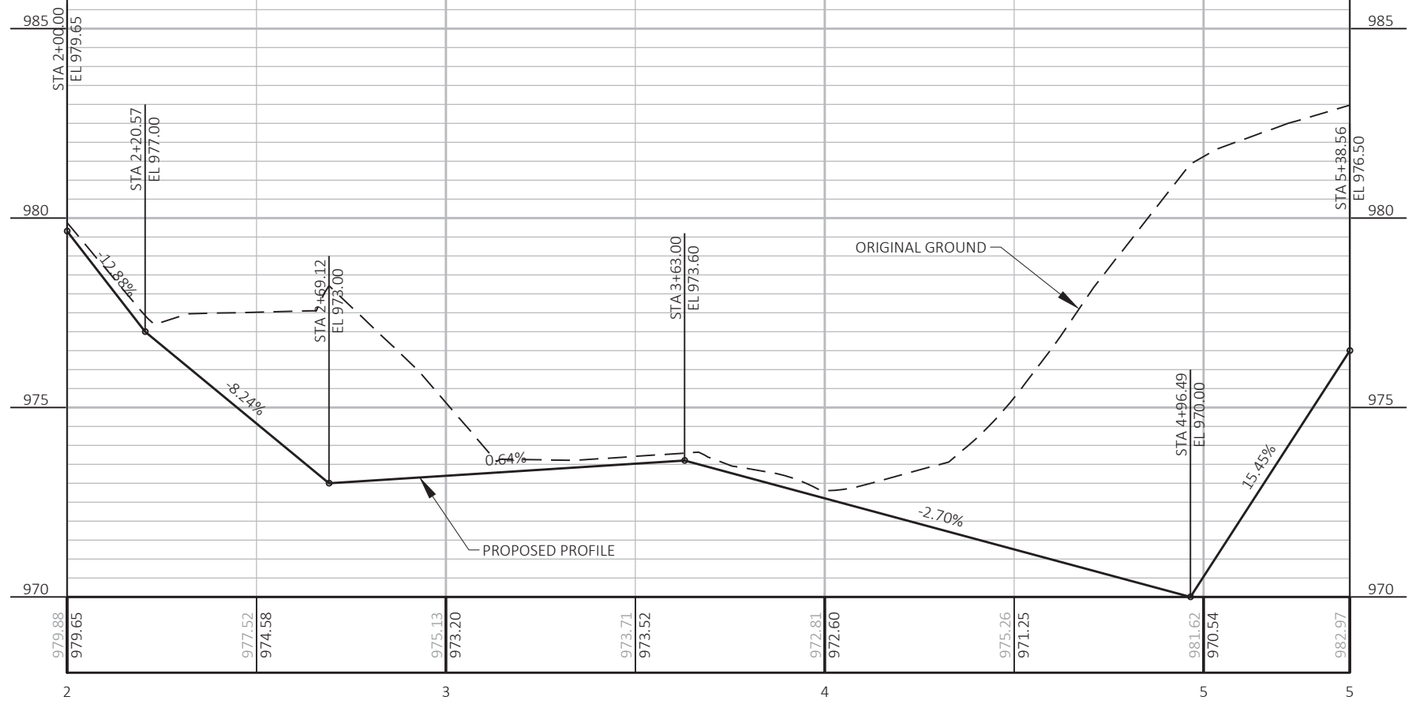




PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: SW & SE	SHEET 82	E

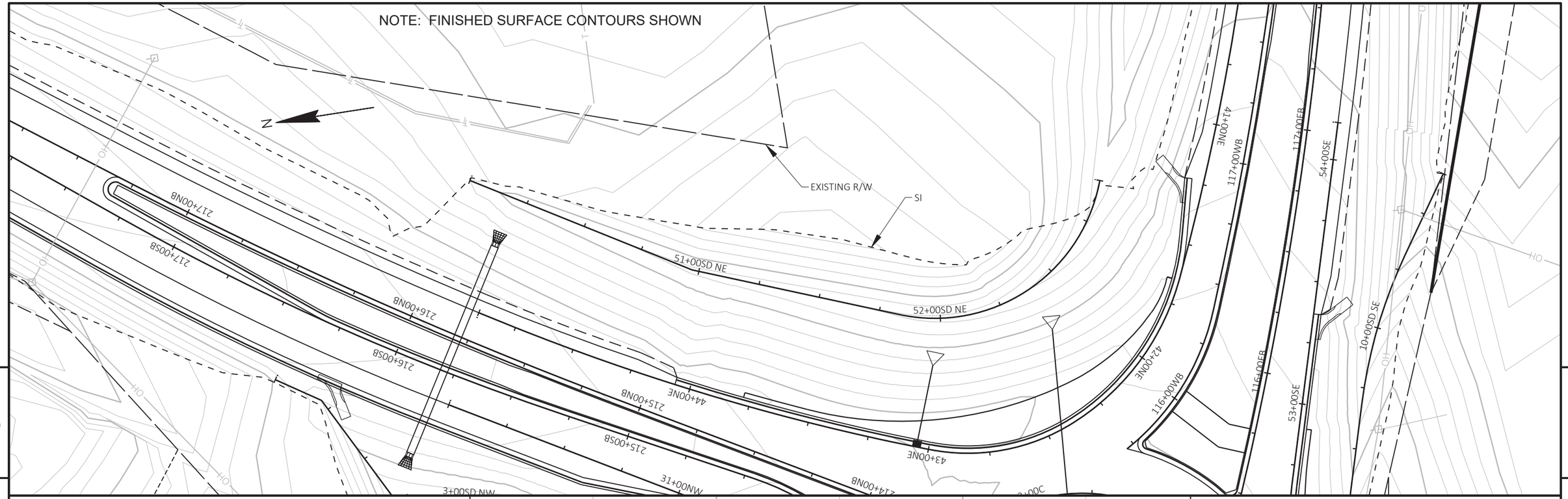
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\050101 - PLAN PROFILE\050101_PP_SW_SE.DWG
LAYOUT NAME - 050101_pp_SW-1
PLOT DATE : 10/11/2021 3:39 PM
PLOT BY : ARENSDORF, JAROD P
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

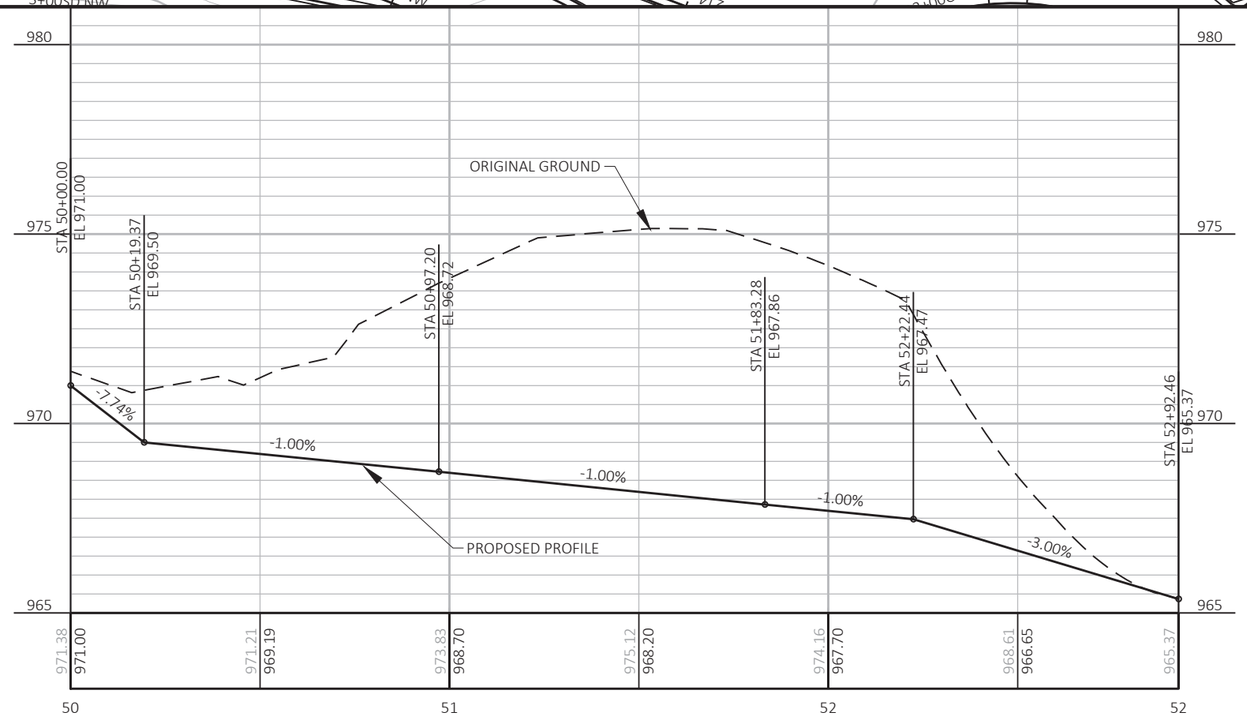




PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: SPECIAL DITCH NW	SHEET 83	E

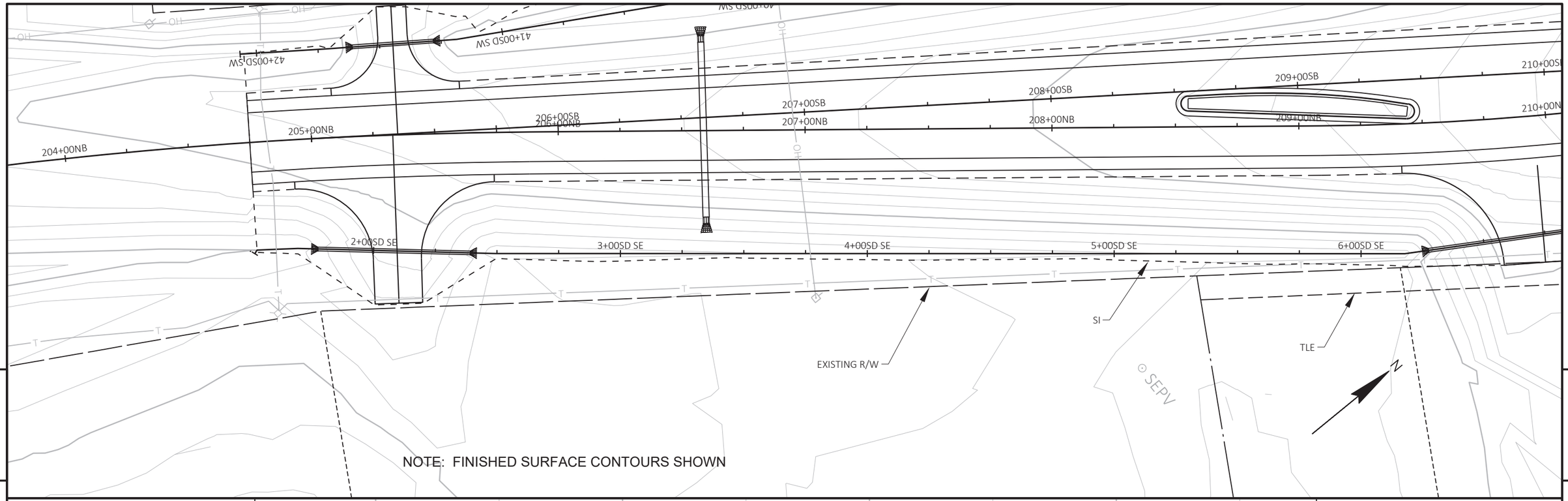
NOTE: FINISHED SURFACE CONTOURS SHOWN

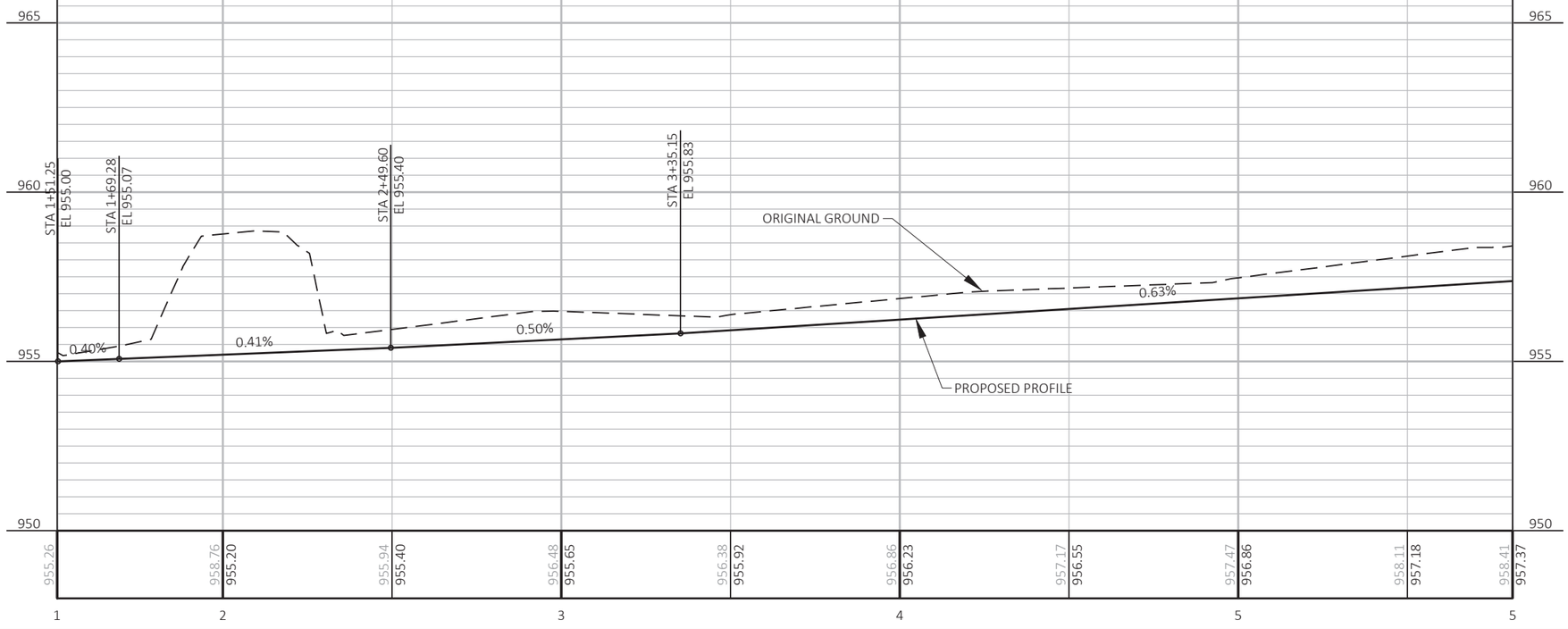




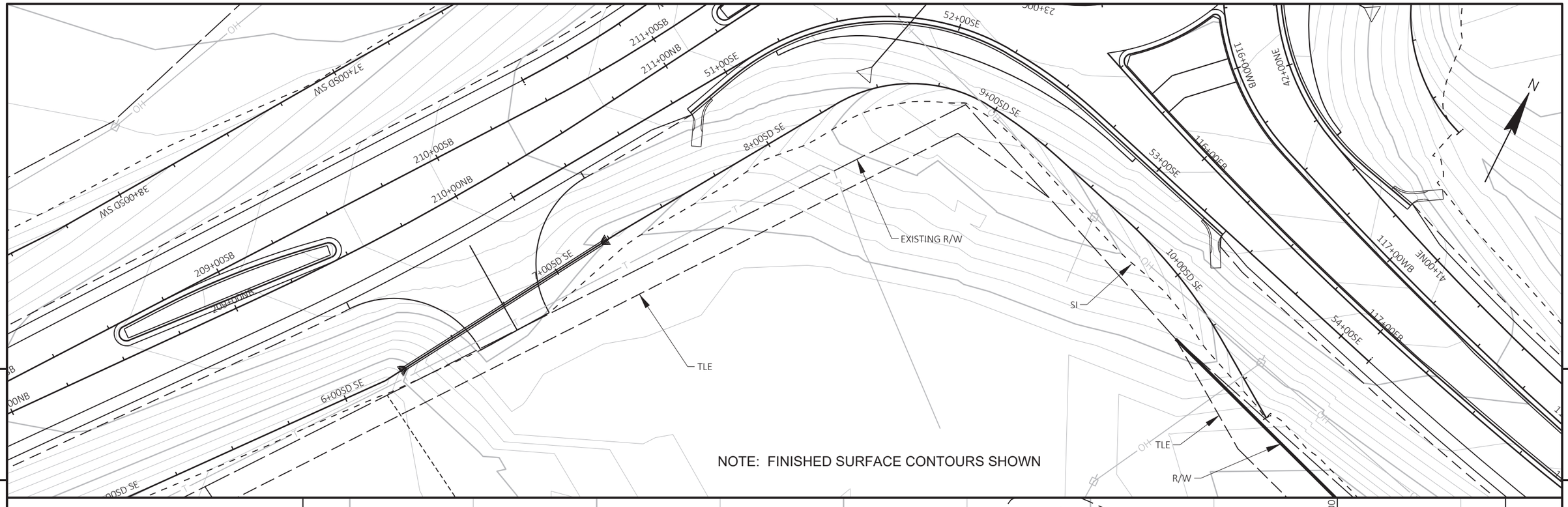
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: SPECIAL DITCH NE	SHEET 84	E

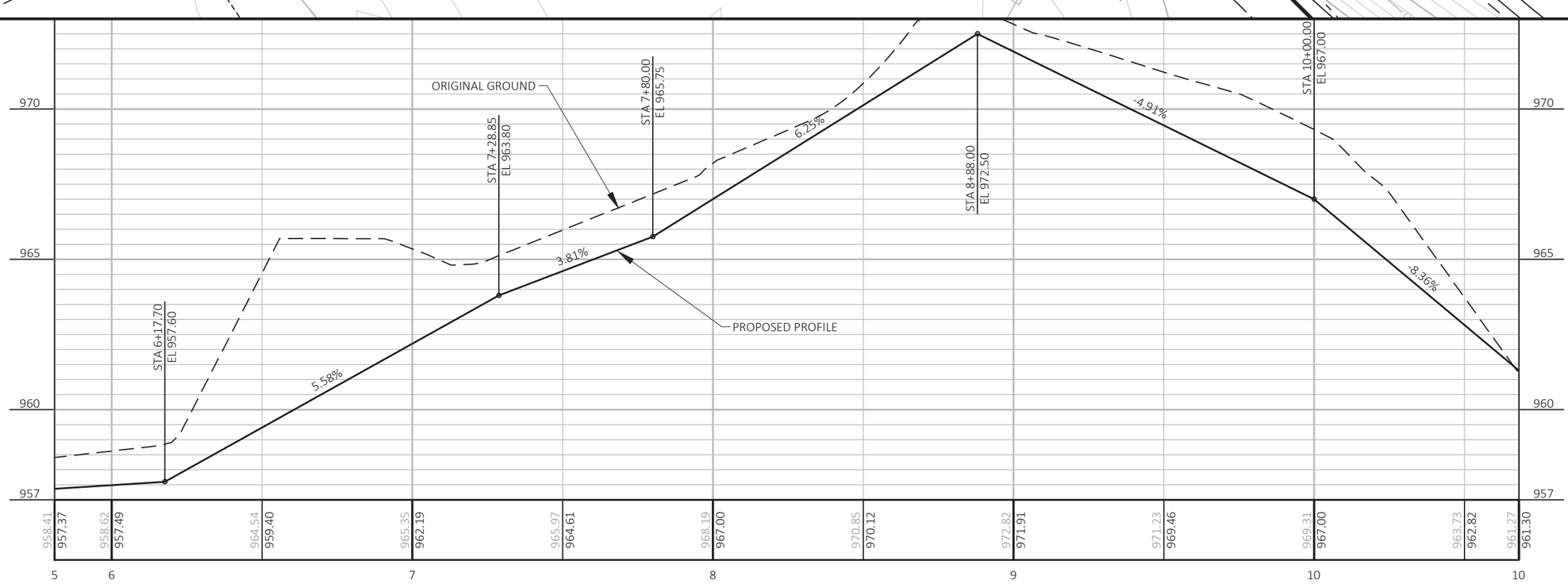
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\021001 - CONST DETAILS\021001_SD2.DWG
LAYOUT NAME - 021001_SDNE1
PLOT DATE : 11/18/2020 4:37 PM
PLOT BY : BAILEY, RYAN R
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44





PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: SPECIAL DITCH SE	SHEET 85	E



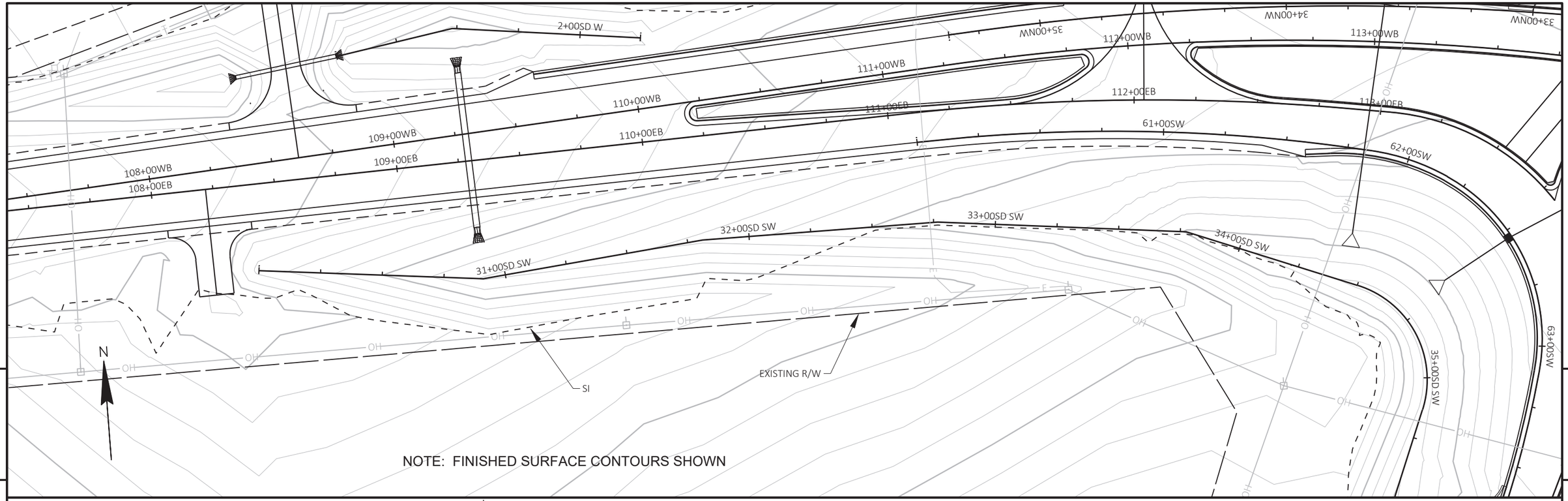


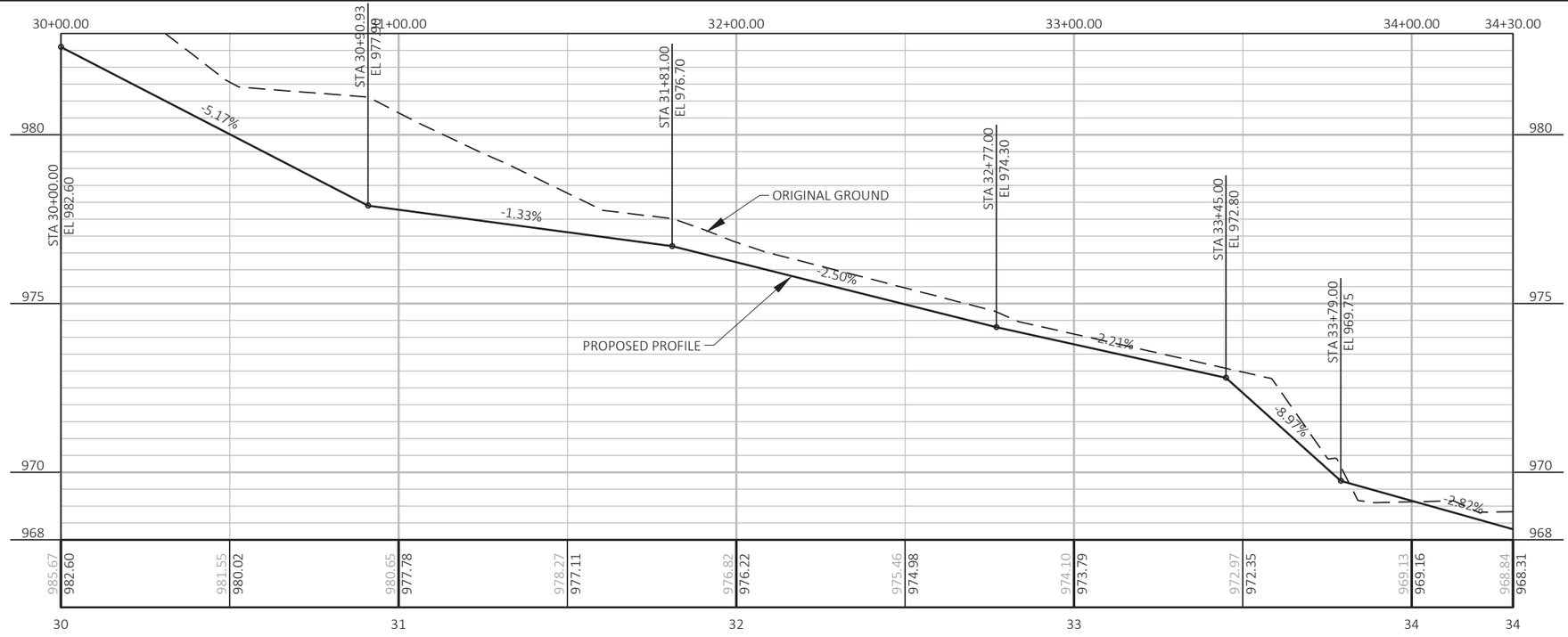
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: SPECIAL DITCH SE	SHEET 86	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\021001 - CONST DETAILS\021001_SD2.DWG
LAYOUT NAME - 021001_SDSE2

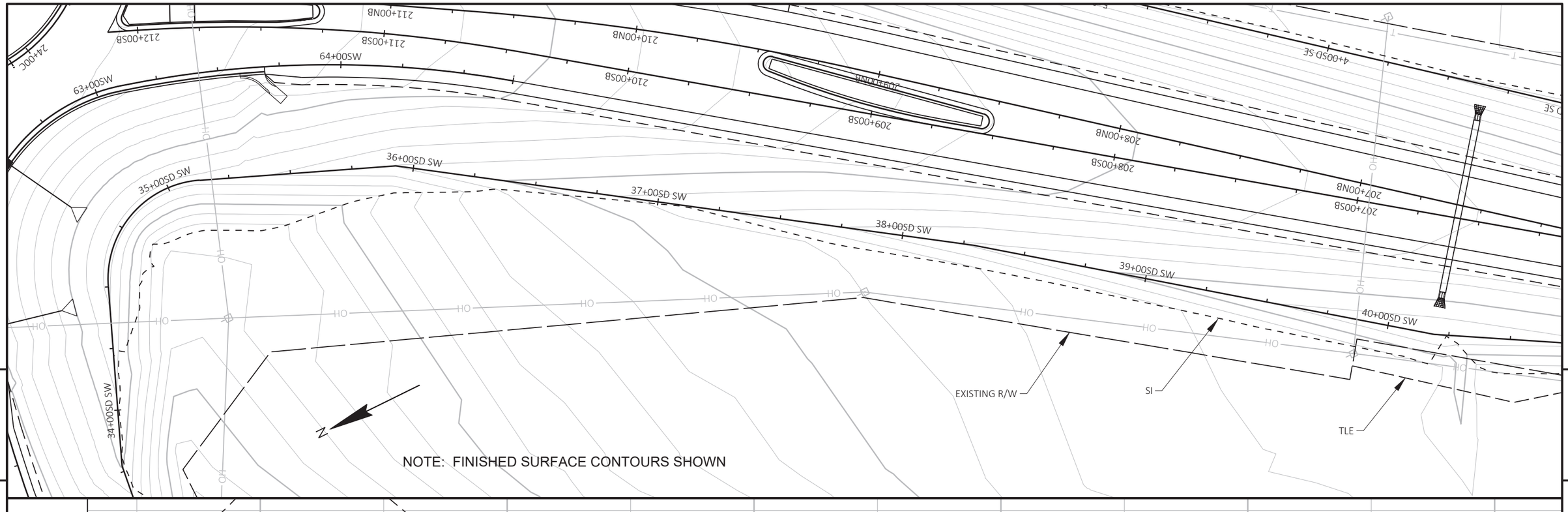
PLOT DATE : 11/18/2020 4:37 PM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:40 FT

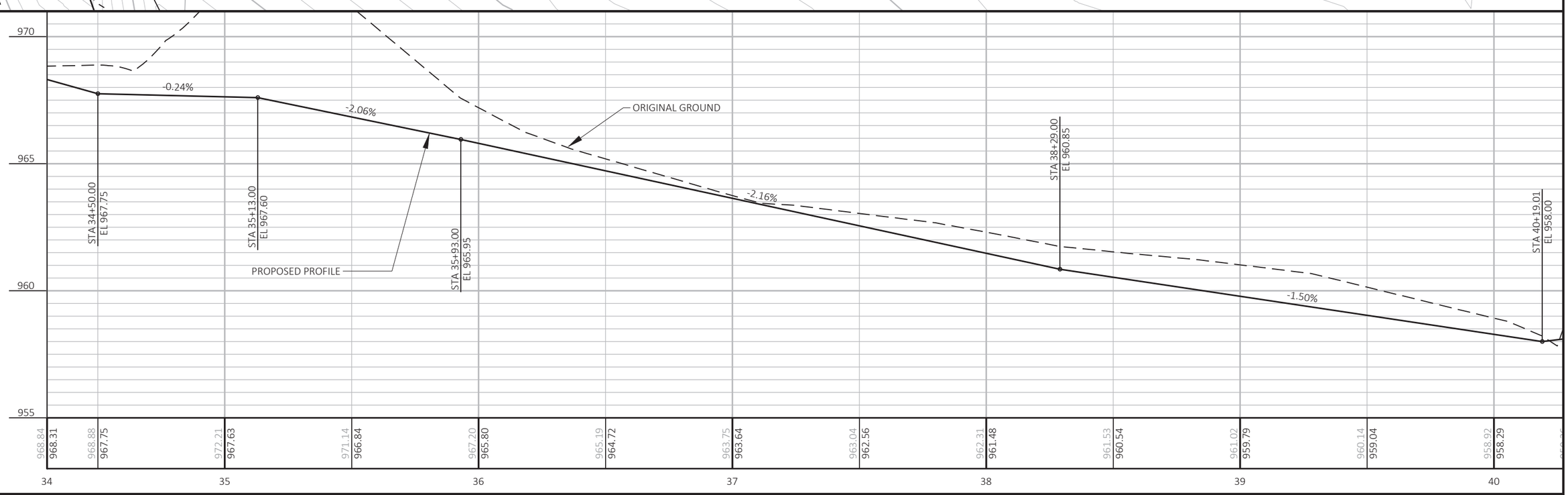
WISDOT/CADDS SHEET 44



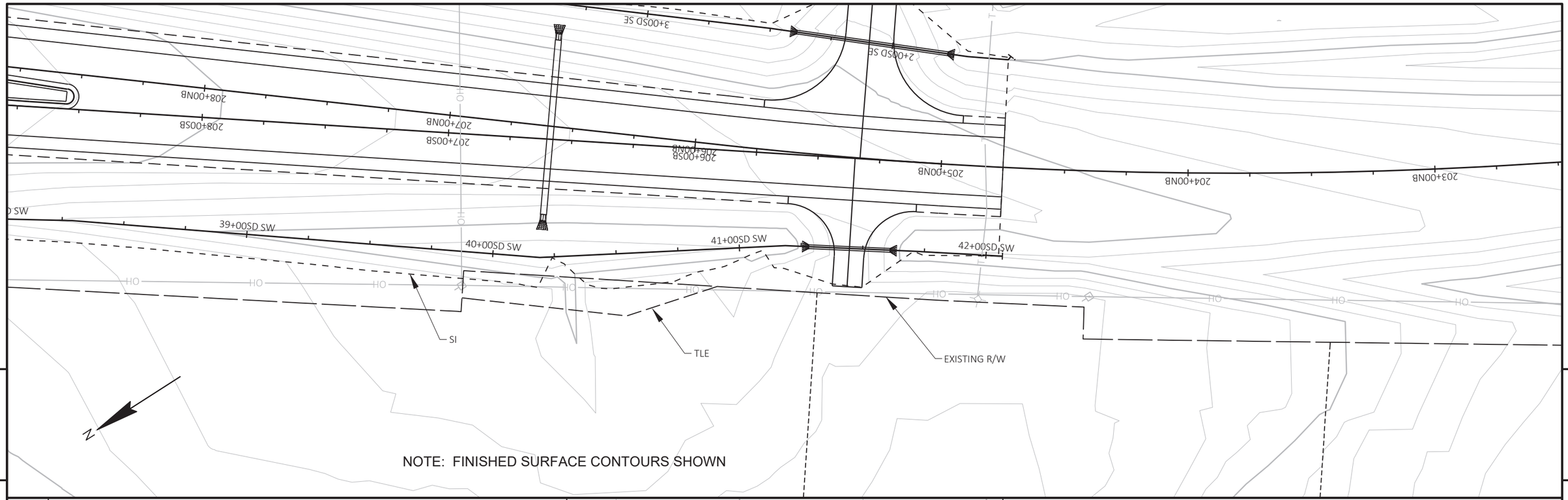


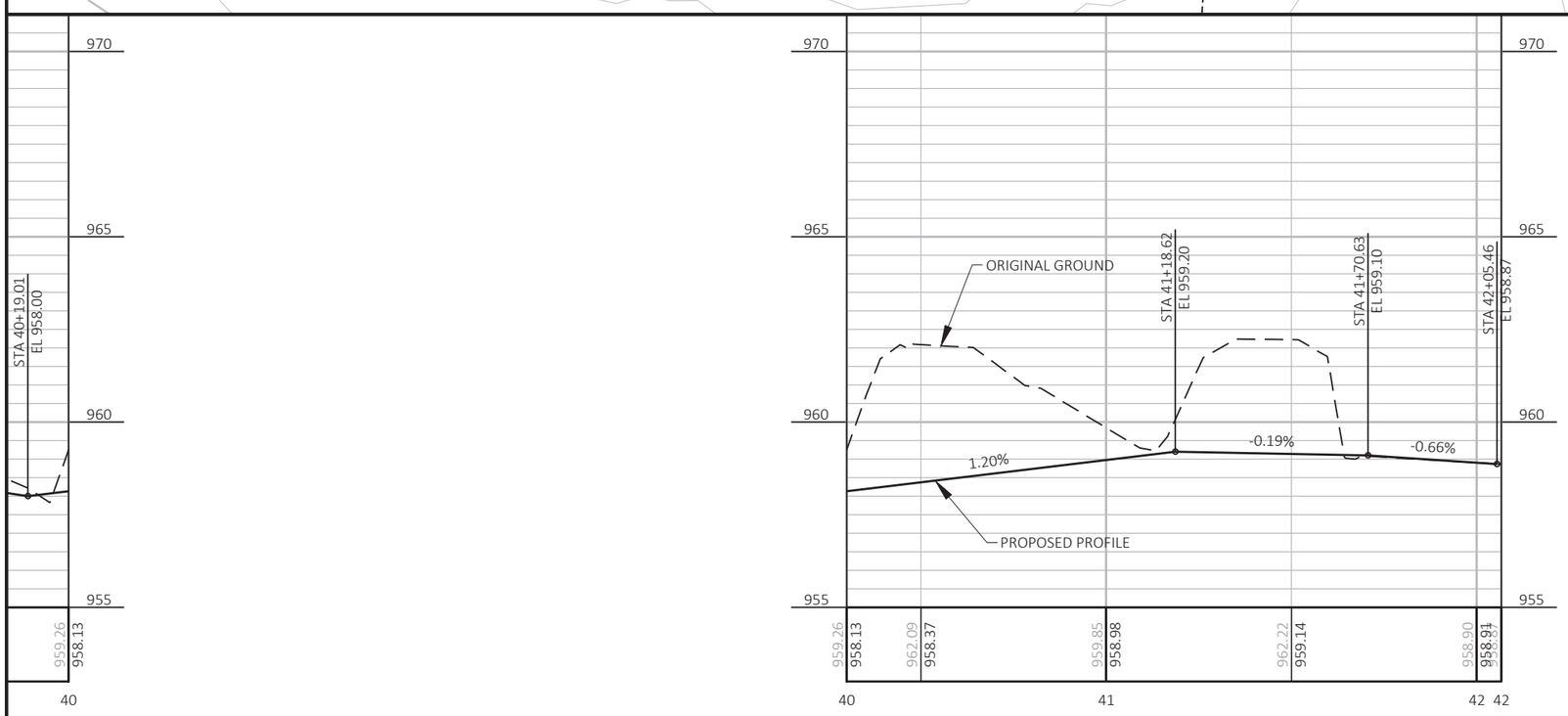
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: SPECIAL DITCH SW	SHEET 87	E



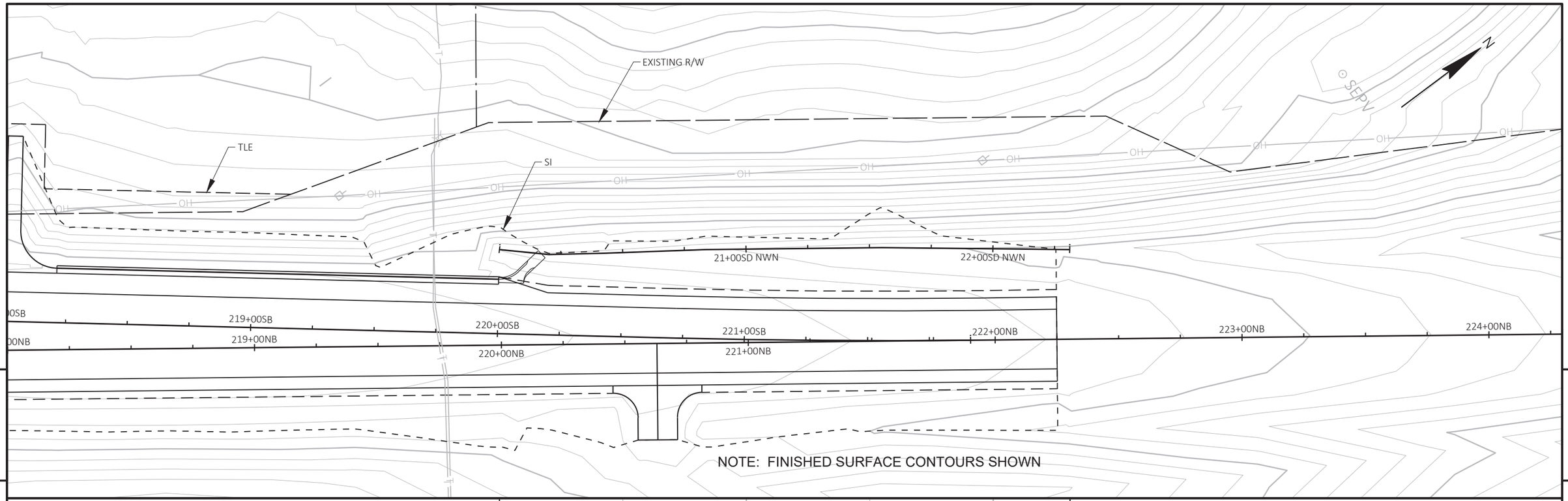


PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: SPECIAL DITCH SW	SHEET 88	E

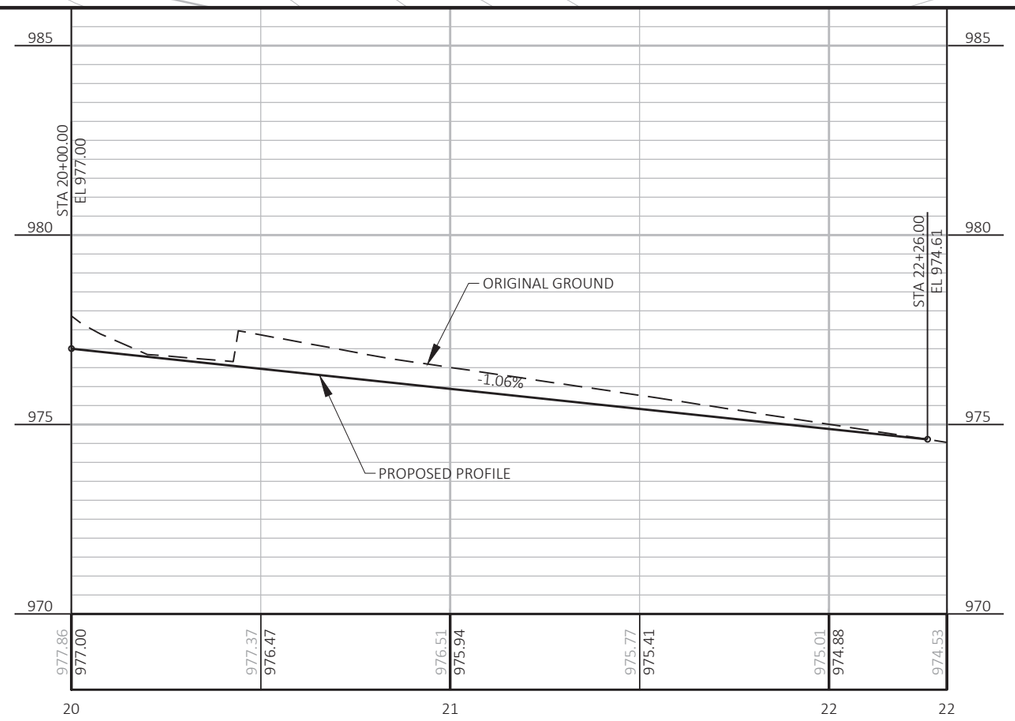




PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: SPECIAL DITCH SW	SHEET 89 E



NOTE: FINISHED SURFACE CONTOURS SHOWN



PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	PLAN AND PROFILE: SPECIAL DITCH NWN	SHEET 90	E

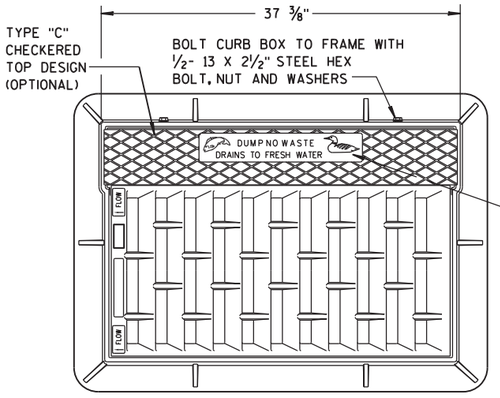
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\021001 - CONST DETAILS\021001_SD2.DWG
LAYOUT NAME - 021001_SDNWN1

PLOT DATE : 11/18/2020 4:37 PM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:40 FT

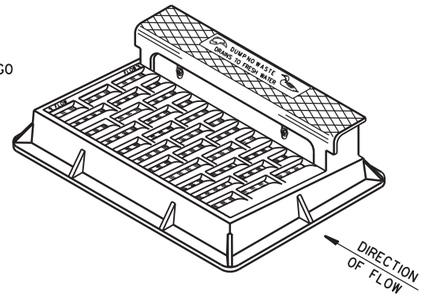
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D17-06	MANHOLES, MANHOLE & INLET COVERS
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
09B02-10	CONDUIT
09B04-11	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C05-10	CONCRETE CONTROL CABINET BASES
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-03	LIGHTING CONTROL CABINET 120/240 VOLT
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E02-05	FREEWAY LIGHTING UNIT POLE WIRING
10A18-05A	LUMINAIRE ARMS, SINGLE MEMBER 6-INCH CLAMP
11B02-02	CONCRETE MEDIAN NOSE
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-12A	RURAL DOWELED CONCRETE PAVEMENT
13C11-12B	RURAL DOWELED CONCRETE PAVEMENT
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C18-07E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-15A	PAVEMENT MARKING SYMBOLS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15D	ROUNDABOUT ARROWS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-09A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-05A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-05B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C18-05C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT

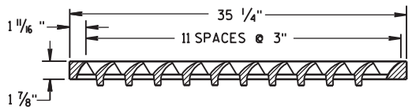
6

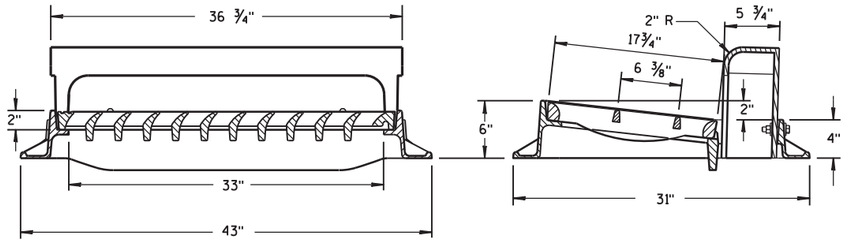


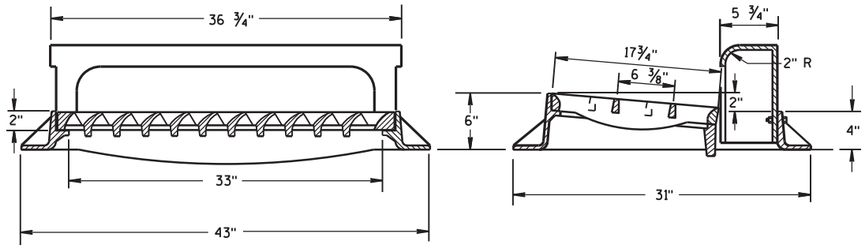
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

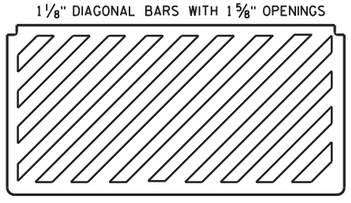






TYPE "H"

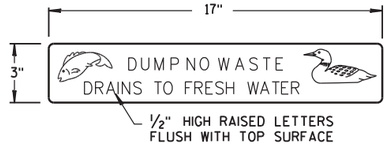
NOTE: EITHER CASTING IS ACCEPTABLE



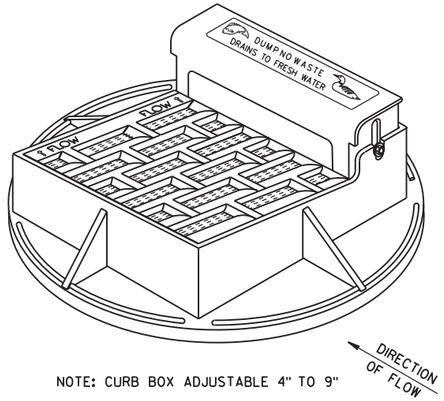
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

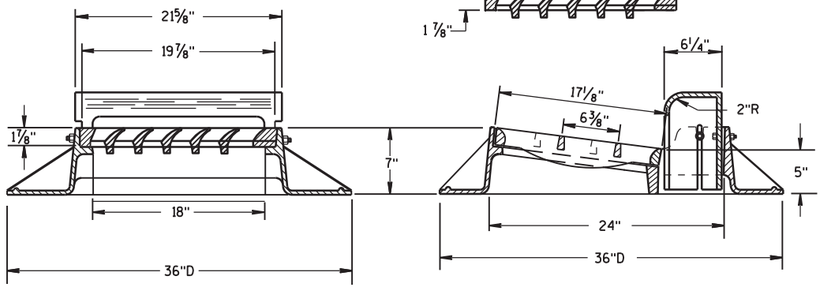


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



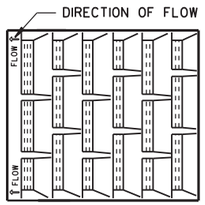
TYPE "A"

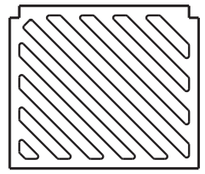
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

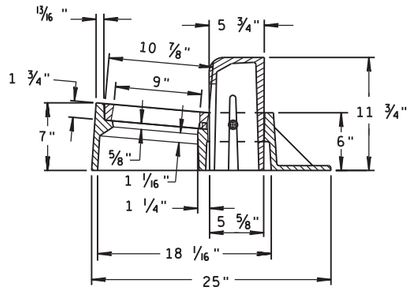


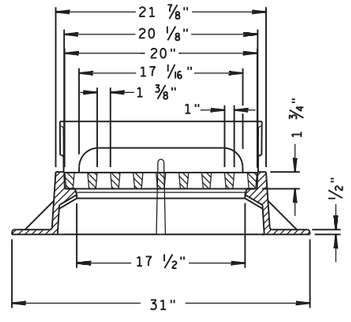


SPECIAL GRATE FOR TYPE "A" COVER

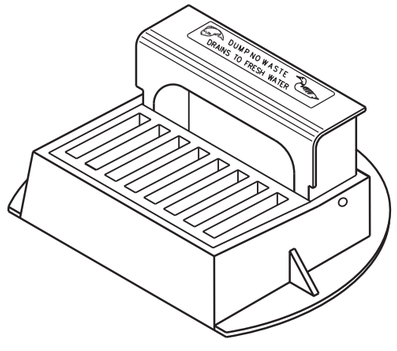
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"

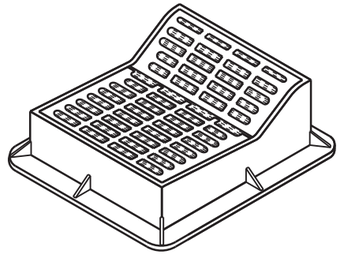


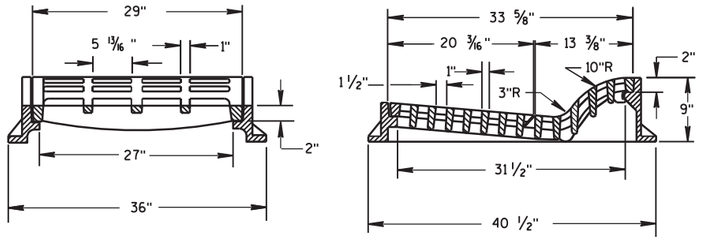
INLET COVERS TYPE A, H, A-S, H-S & Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
92
FHWA

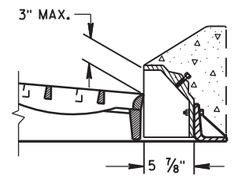
6
S.D.D. 8 A 5-19a





TYPE "F"

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



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

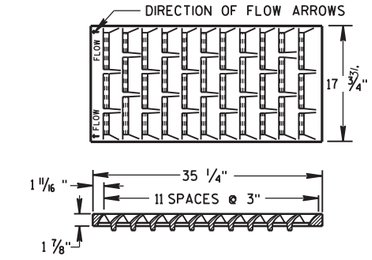
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

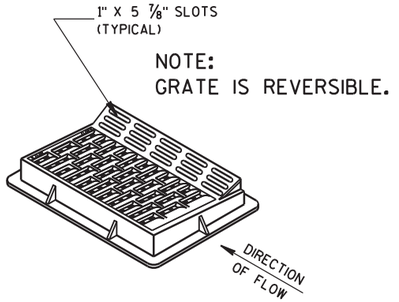
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

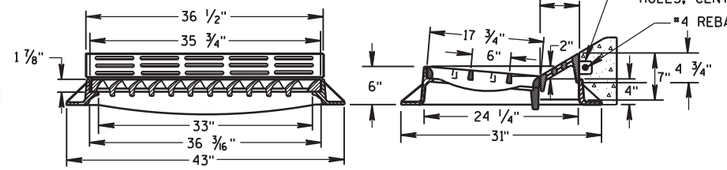
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



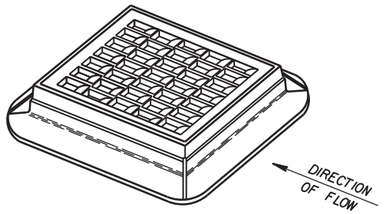


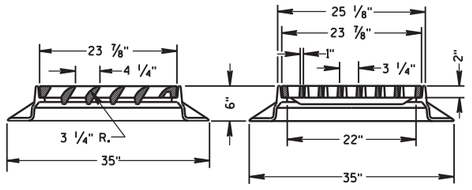


TYPE "HM"

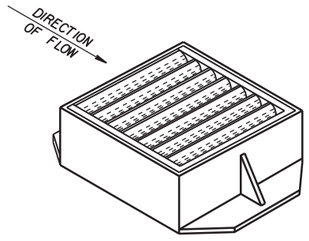
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

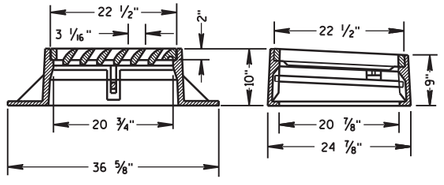
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



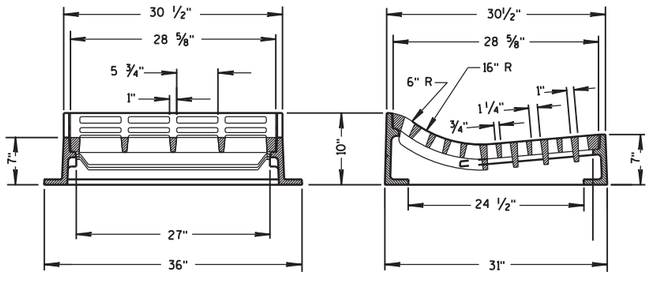


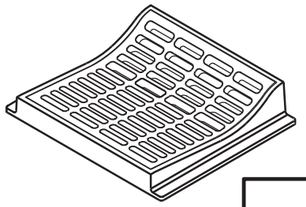
TYPE "S"





TYPE "V"





TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

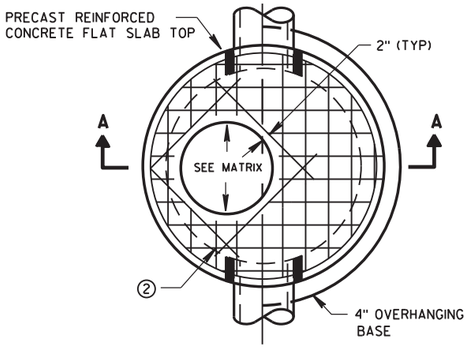
APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

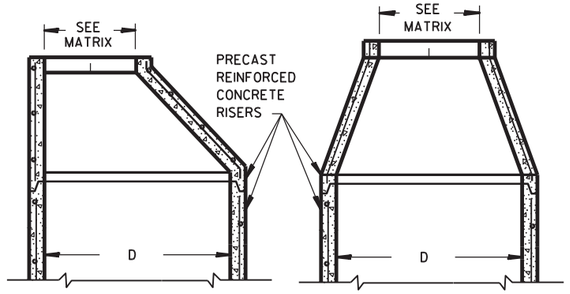
FHWA

6

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

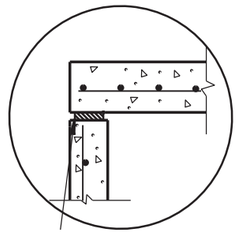


PLAN VIEW CIRCULAR OPENING

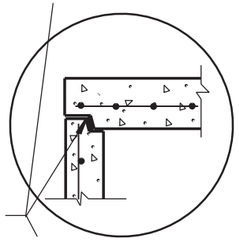


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

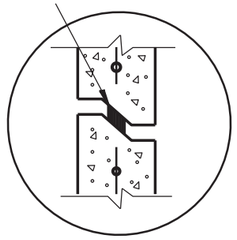


TOP WITH PLAIN END JOINT



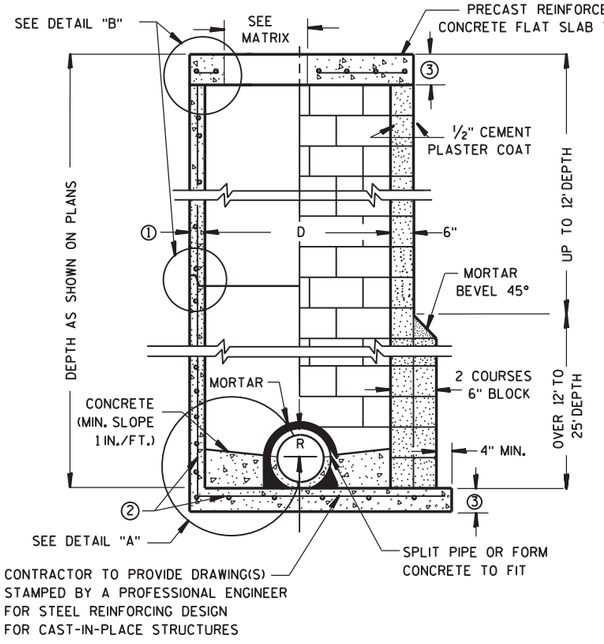
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



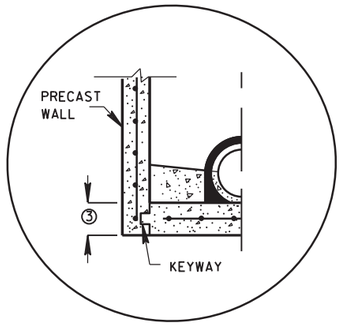
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

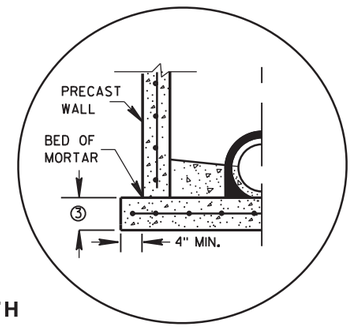


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

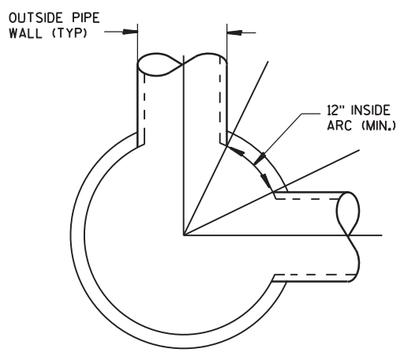


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2016
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV 94

FHWA

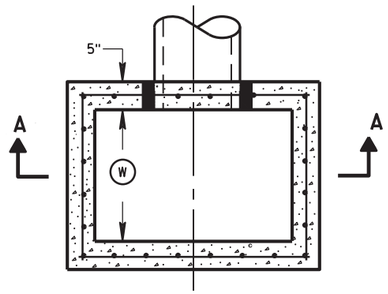
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

6

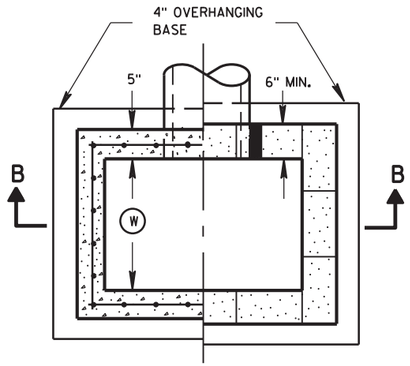
S.D.D. 8 B 9-2

6

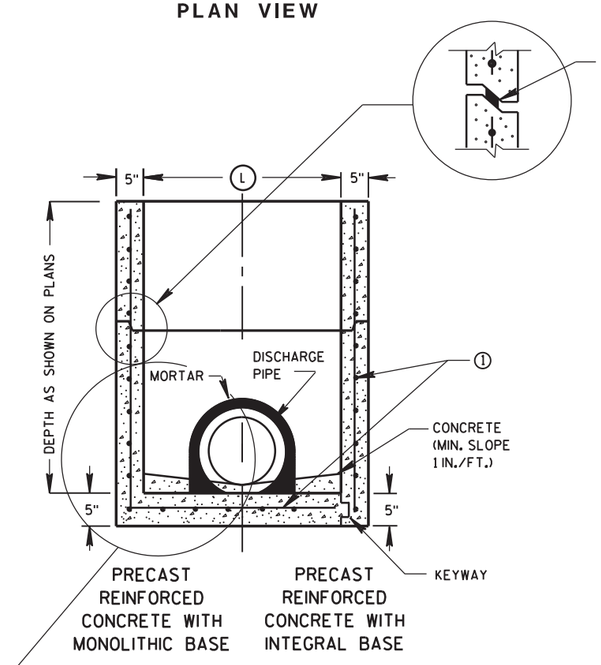
S.D.D. 8 B 9-2



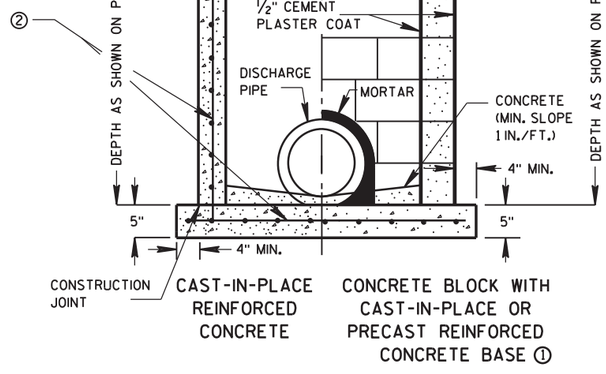
PLAN VIEW



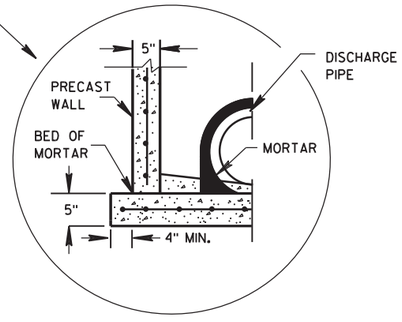
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

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DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

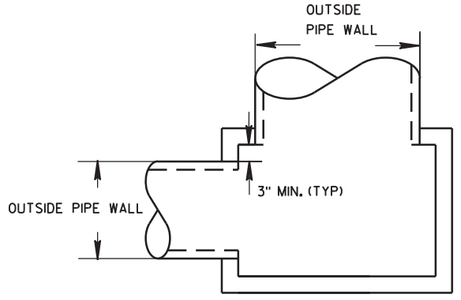
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



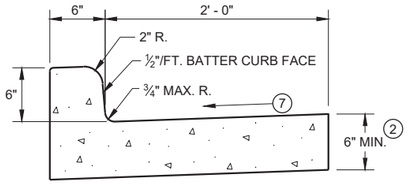
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

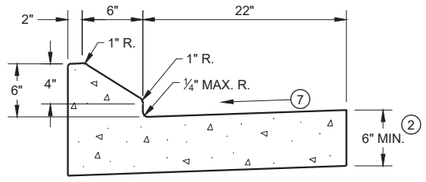
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT UNIT SUPERVIS
FHWA

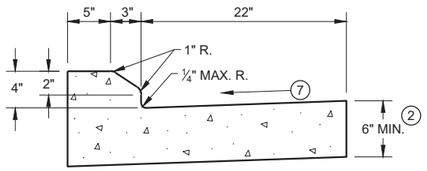
6
S.D.D. 8 C 7-2



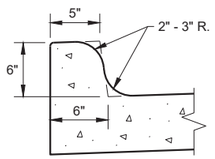
TYPES A[1] & D



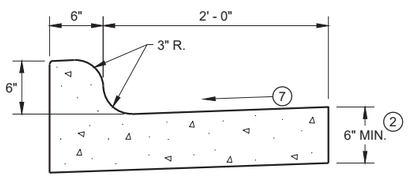
6" SLOPED CURB TYPES G[1] & J



4" SLOPED CURB TYPES G[1] & J

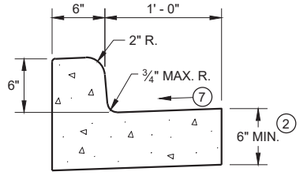


TYPES K[1] & L
(OPTIONAL CURB SHAPE)



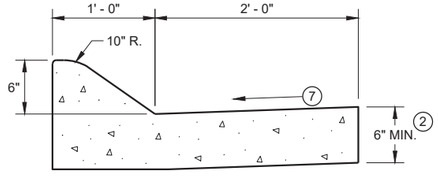
TYPES K[1] & L

CONCRETE CURB AND GUTTER 30"



TYPES A[1] & D

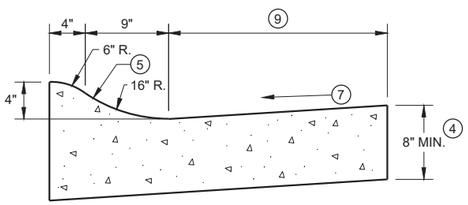
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A[1] & D

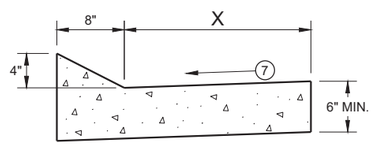
4" SLOPED CURB TYPES A[1] & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R[1] & T

TBT & TBTT	X
30"	22"
36"	28"

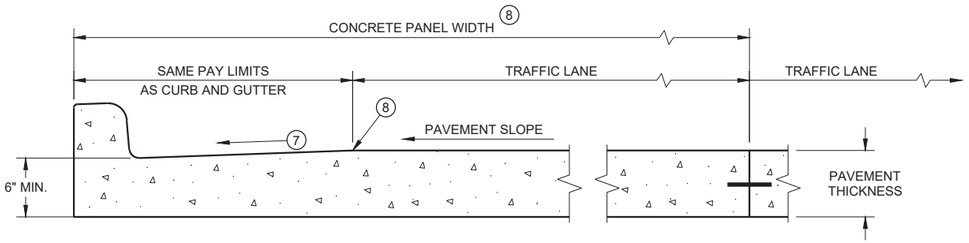


TYPES TBT & TBTT[1]

CONCRETE CURB AND GUTTER

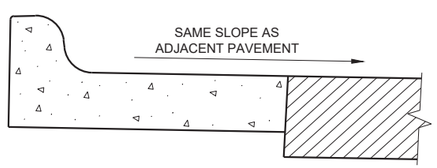
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER[6]
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

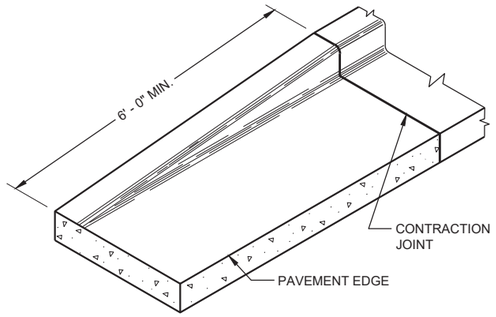
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

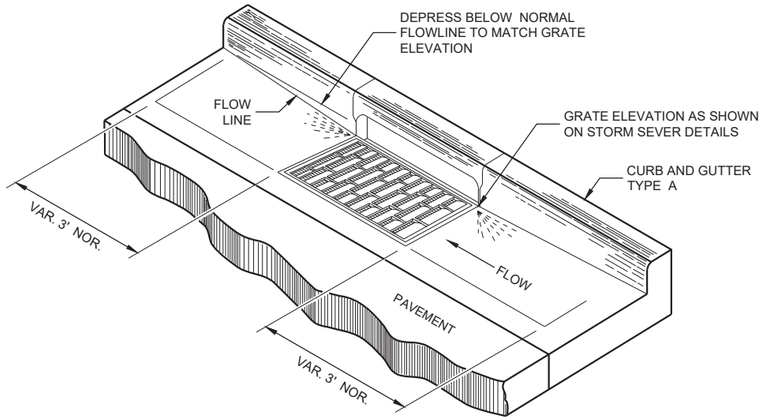
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

1. TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
2. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
3. USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
4. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
5. UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
6. WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
7. USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
8. INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.
9. CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
   CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

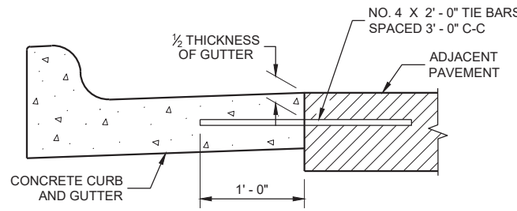
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

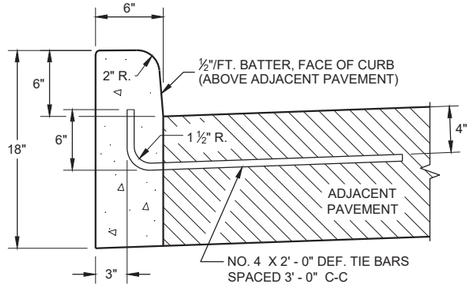
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

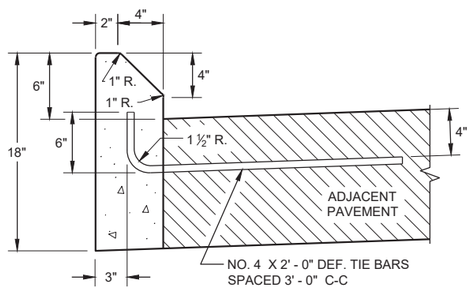
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

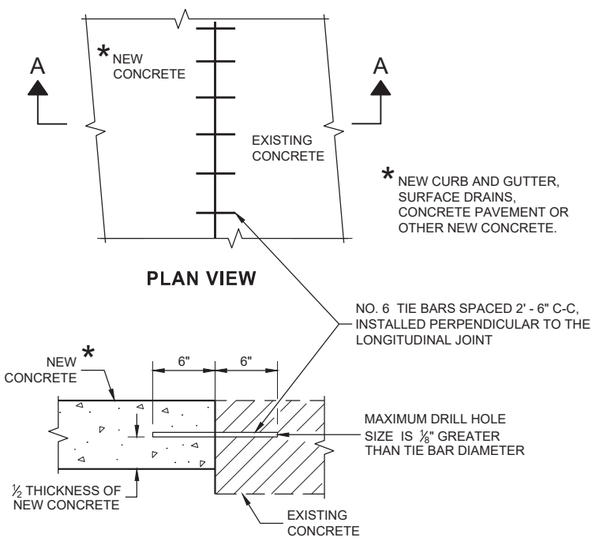


TYPES A (1) & D



TYPES G (1) & J

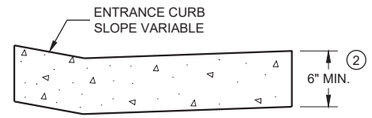
CONCRETE CURB



PLAN VIEW

SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

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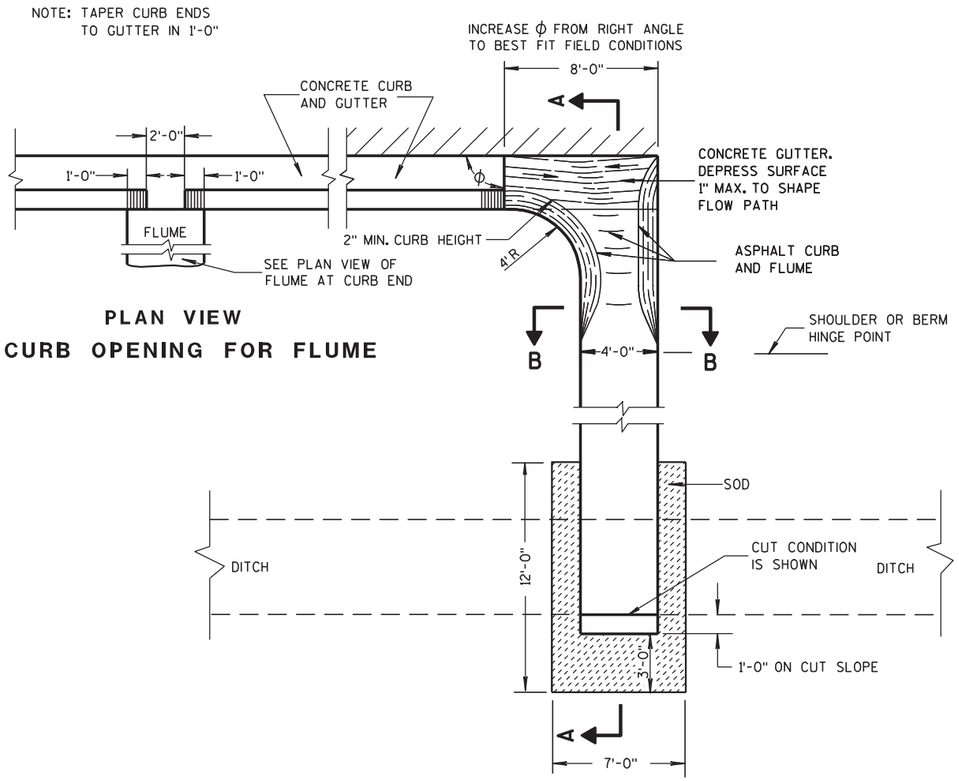
SDD08D01 - 22b

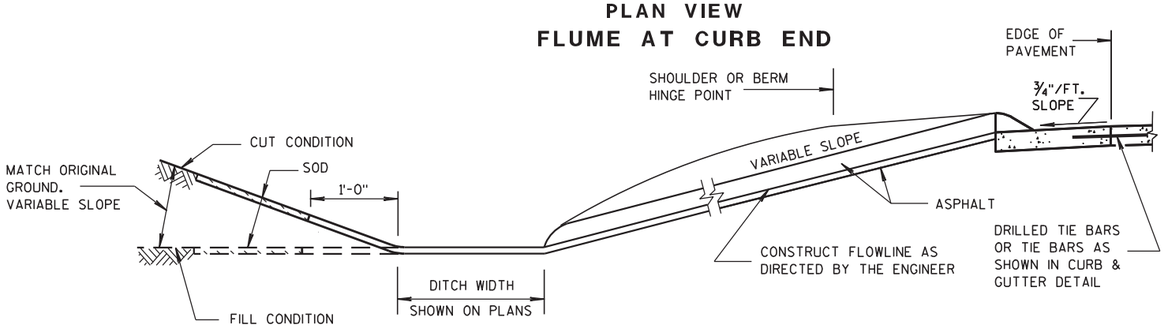
SDD08D01 - 22b

ASPHALTIC FLUME

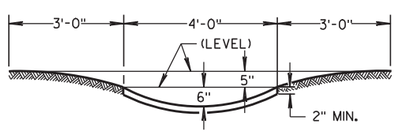


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

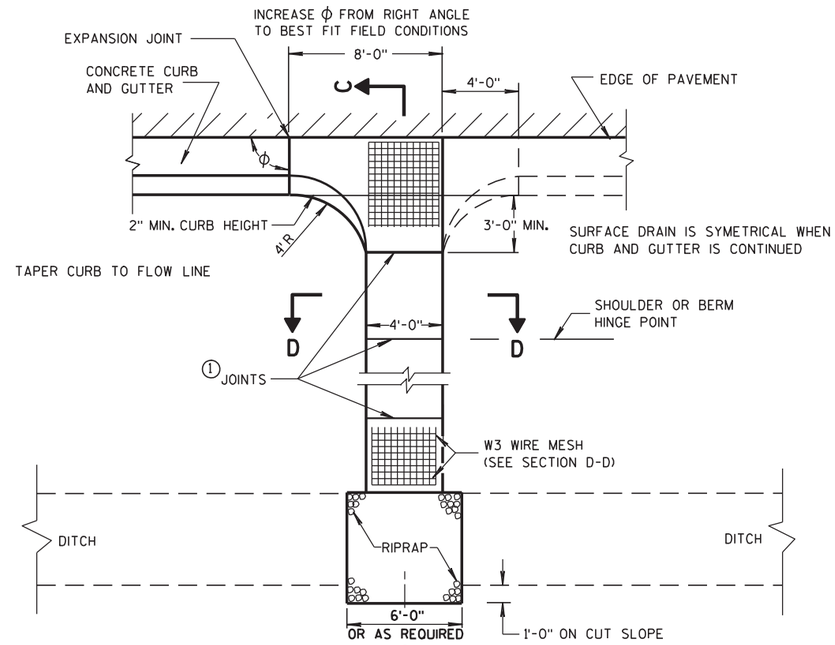
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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

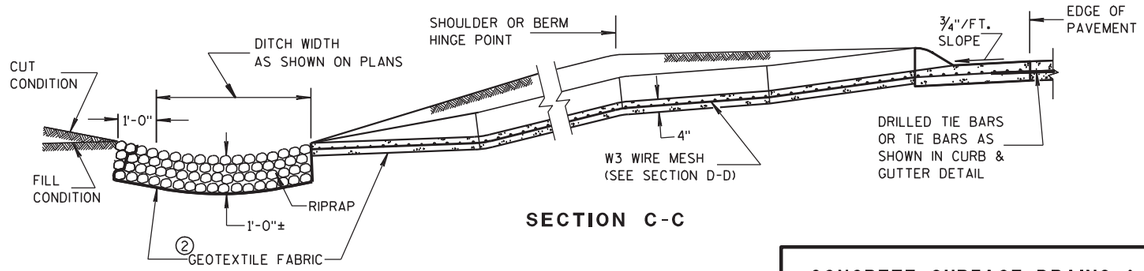
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

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

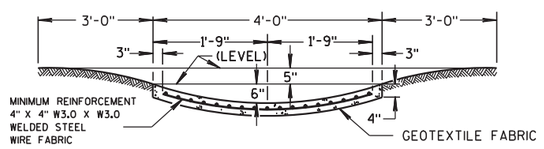
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
98
MENT
FHWA

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S.D.D. 8 D 4-5

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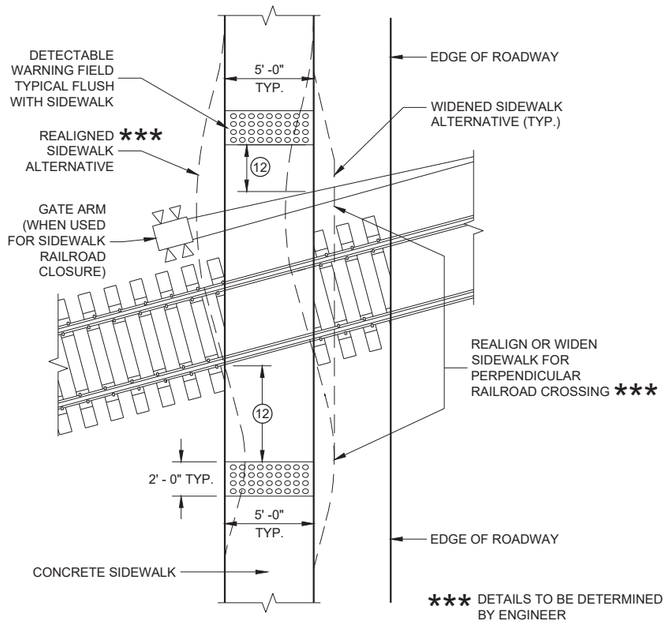
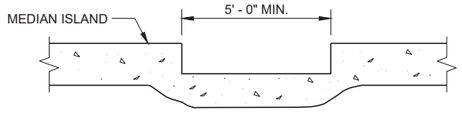
S.D.D. 8 D 4-5

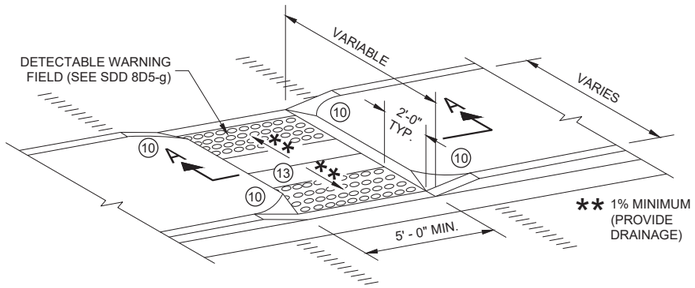


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ½ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

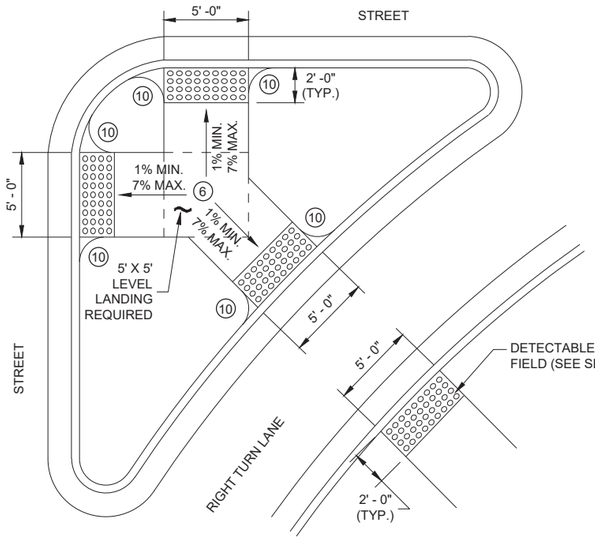
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

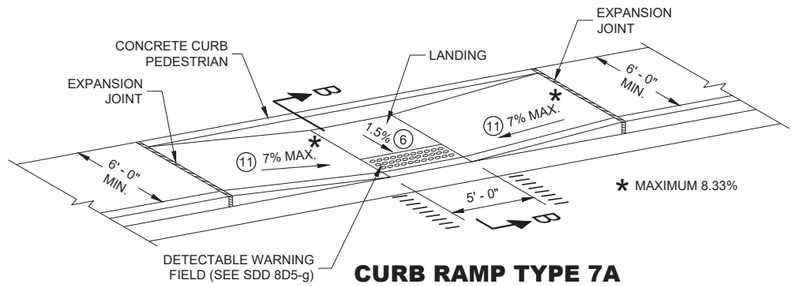
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

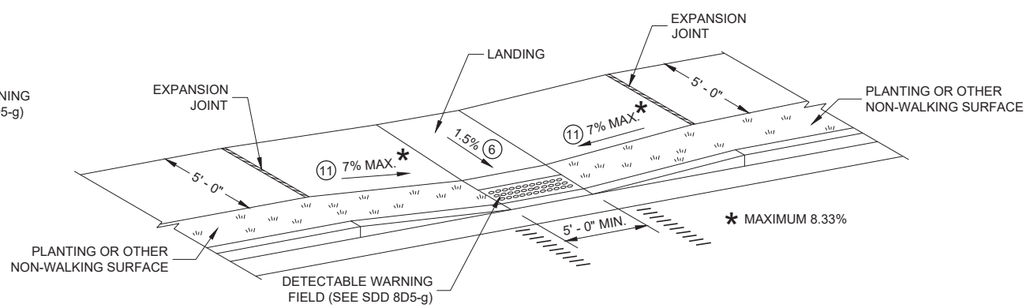
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

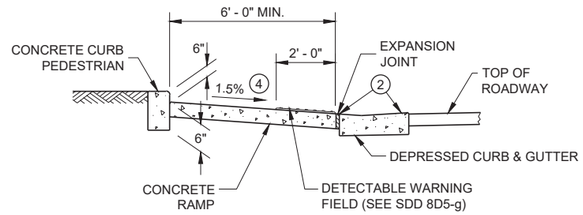
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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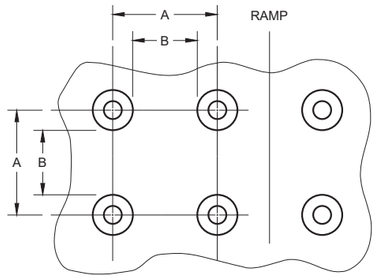
SDD 08D05 - 20e

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

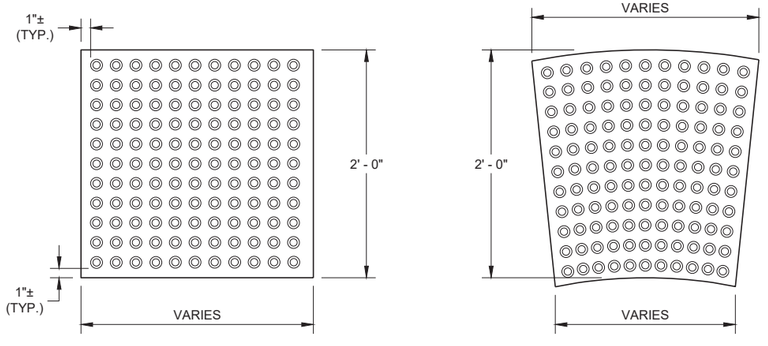
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW

ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

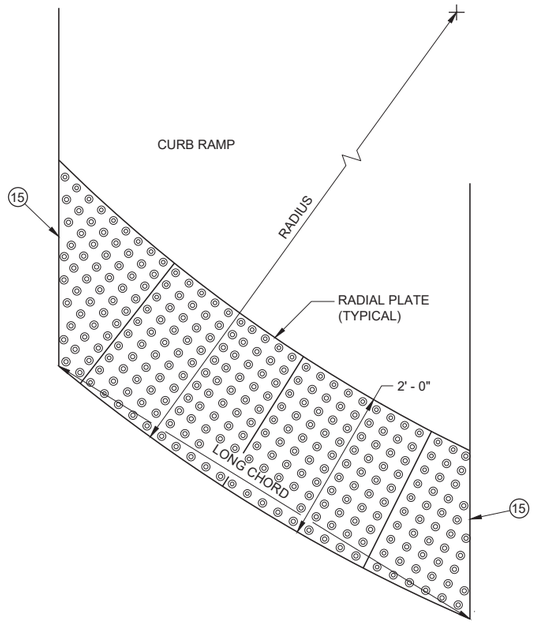
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

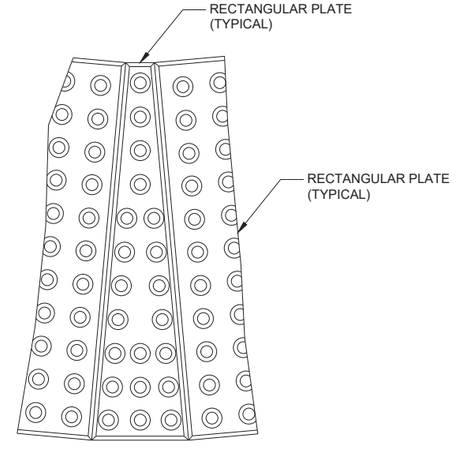
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

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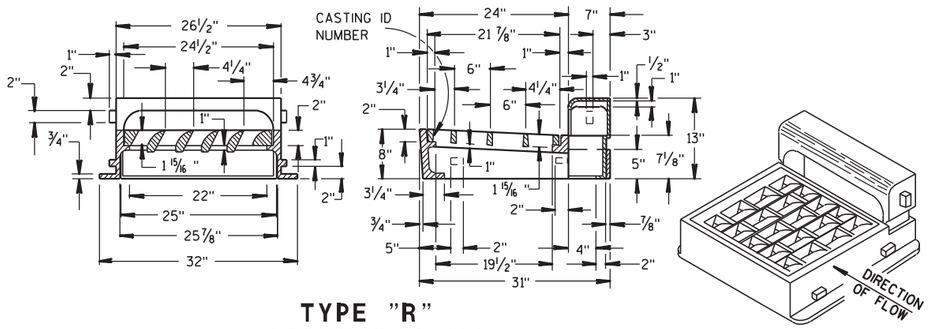
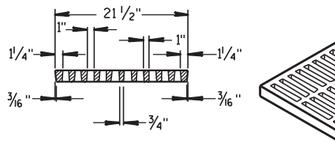
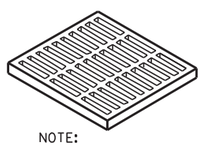
INLET COVERS



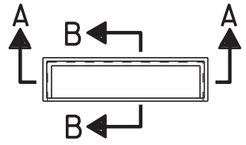
TYPE "R"

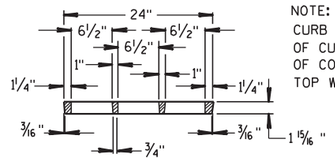
SHOWING SPECIAL GRATE NO. 1
(TO BE NOTED AS R-1 IN DRAINAGE TABLE)



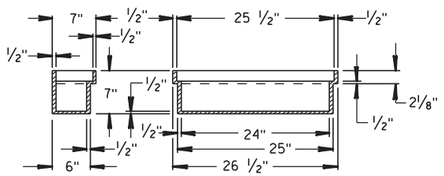


(APPROX. WEIGHT - 510 LBS.)
FRAME..... 245 LBS.
CURB..... 120 LBS.
GRATE..... 145 LBS.





NOTE:
CURB PLUG USED IN PLACE OF CURB BOX IN ABSENCE OF CONC. CURB. FILL TO TOP WITH CONCRETE.



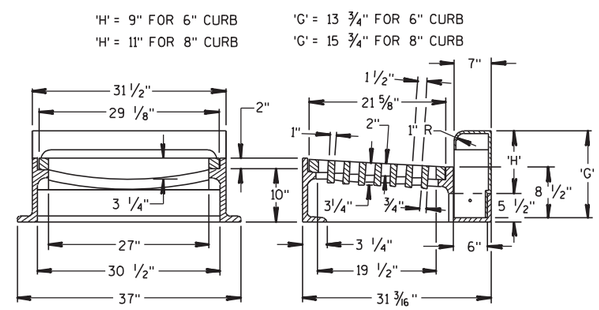
GRATE FOR TYPE "R" INLET COVER

(GRATE..... 150 LBS.)
(TO BE USED UNLESS OTHERWISE NOTED IN DRAINAGE TABLE)

SECTION B-B SECTION A-A

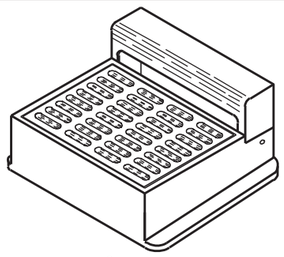
SPECIAL CURB PLUG "P"

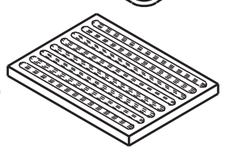
(CURB PLUG..... 85 LBS.)
(TO BE NOTED AS R-P IN DRAINAGE TABLE)



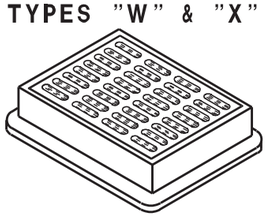
TYPE "W"

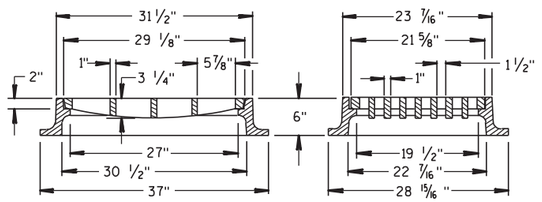
(APPROX. WEIGHT - 670 LBS.)
FRAME..... 350 LBS.
CURB BOX..... 135 LBS.
GRATE..... 185 LBS.





ALTERNATE GRATE
(FOR EXPRESSWAY RAMPS)
TYPES "W" & "X"

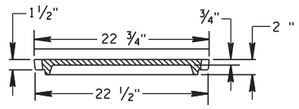




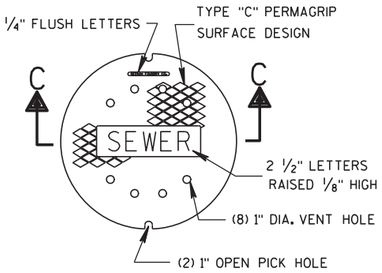
TYPE "X"

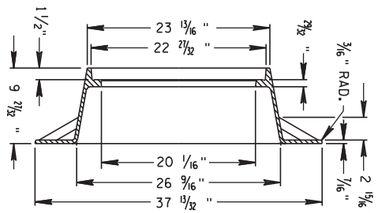
(APPROX. WEIGHT - 470 LBS.)

MANHOLE COVER



SECTION C-C





TYPE "Q"

(APPROX. WEIGHT - 290 LBS.)

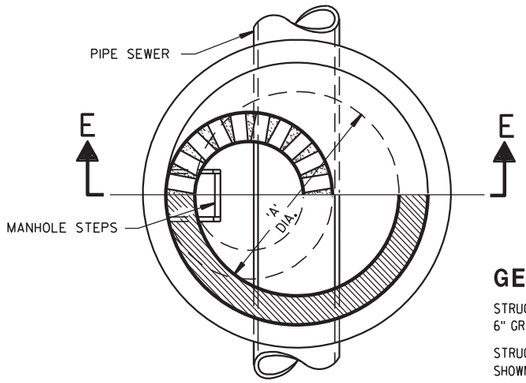
TABLE OF DIMENSIONS

TYPE	'A'	'B'	'C'
11	3'-6"	2'-8"	12" - 36"*
12	4'-0"	3'-8"	12" - 42"**
13	5'-0"	5'-8"	42" - 48"
14	6'-0"	7'-8"	54" - 60"

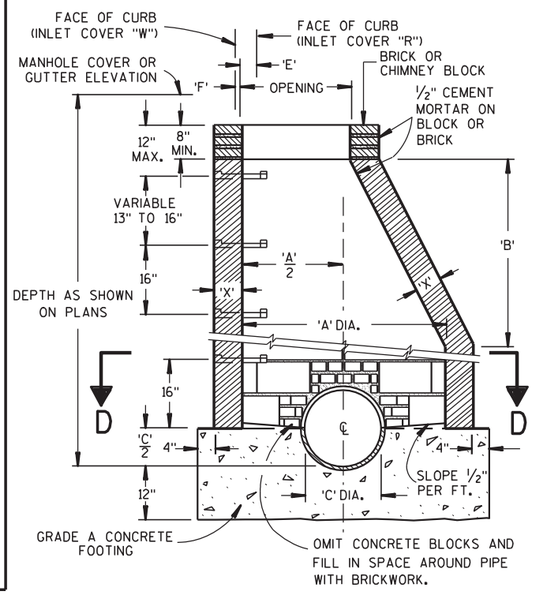
* 12" - 21" FOR PRECAST MANHOLES
** 12" - 24" FOR PRECAST MANHOLES

THE FIRST STEP SHALL BE PLACED 16" ABOVE THE BENCH.

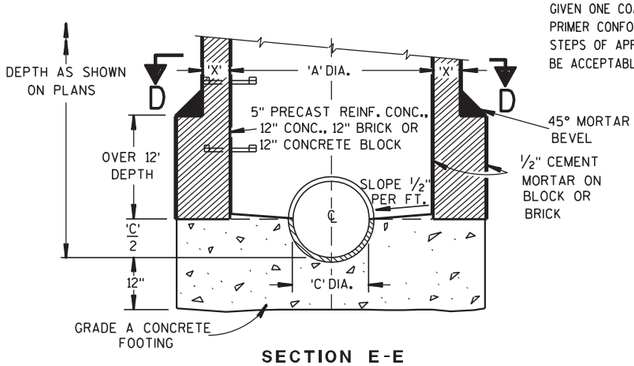
MANHOLE



HALF SECTION D-D



SECTION E-E



SECTION E-E

TYPES 11, 12, 13 & 14

TABLE OF OPENING DIMENSIONS

COVER TYPE	COVER DESCRIPTION	OPENING	'E'	'F'
"O"	ROUND	2'-2" DIA.	—	—
"W"	CURB BOX	1'-8" X 2'-6"	—	1"
"X"	INLET	1'-10" X 2'-6"	—	—
"R"	CURB BOX	2'-0" X 2'-1"	4"	—

GENERAL NOTES

STRUCTURE WALL THICKNESS 'X' TO BE 8" BRICK, 6" CONCRETE BLOCK, 6" GRADE A CONCRETE OR 5" PRECAST REINFORCED CONCRETE.

STRUCTURE FOOTINGS ARE TO BE GRADE A CONCRETE OF THE THICKNESS SHOWN IN THE DETAIL OR 5" PRECAST REINFORCED CONCRETE.

REINFORCEMENT FOR 5" PRECAST REINFORCED CONCRETE SHALL BE 6" X 6" W16 X W16 WELDED SREEL WIRE FABRIC AND SHALL BE EMBEDDED 2" CLEAR.

PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

PRECAST CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6" IN DEPTH, WHICH MEETS THE REQUIREMENTS FOR GRANULAR BACK-FILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON THE PLANS.

THE CONTRACTOR MAY FORM AND POUR MONOLITHIC CONCRETE INVERT PROVIDED THE PIPE ENDS ARE EXTENDED INTO THE M.H. AND NOT TERMINATED WITHIN THE M.H. WALLS.

MANHOLE STEPS

STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH; 16 INCH C-C MAX. SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM WALL EMBEDMENT OF 3 INCHES IN PRECAST MANHOLE AND 6 INCHES IN 8 INCH BRICK OR 6 INCH BLOCK MANHOLE; TREAD OF STEP SHALL HAVE A NON-SKID SURFACE AND BE FLANKED BY CLEATS, WITH A MINIMUM OF 10 INCHES CLEAR BETWEEN CLEATS, TO PREVENT FOOT SLIPPING OFF THE EDGE CLEATS SHALL BE A MINIMUM OF 3/4 INCH HIGH BY 3/4 INCH WIDE HAVING A MINIMUM THICKNESS OF 3/8 INCH. STEPS SHALL BE CAPABLE OF SUPPORTING A CONCENTRATED LOAD OF 300 LBS. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

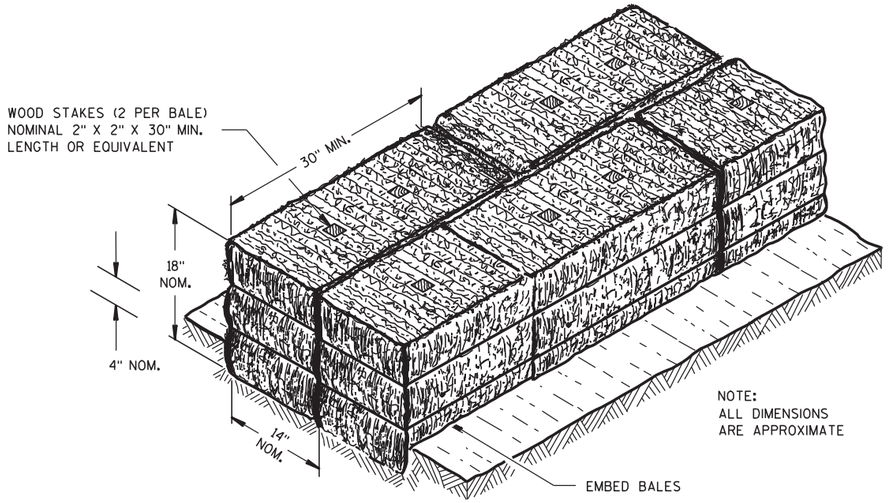
SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT. STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCING BAR WILL BE ACCEPTABLE.

MANHOLES, MANHOLE & INLET COVERS

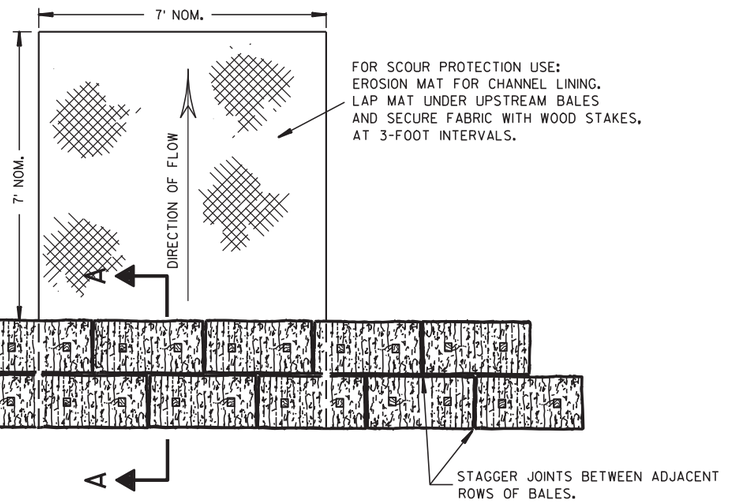
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/12/2011 — DATE
/S/ Jerry H. Zogg — ROADSIDE STANDARDS ENGINEER
101
FHWA

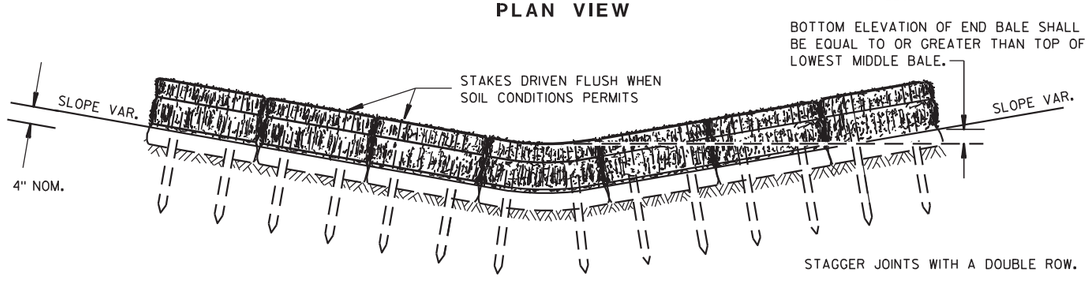
6
S.D.D. 8 D 17-6



SECTION A-A



PLAN VIEW



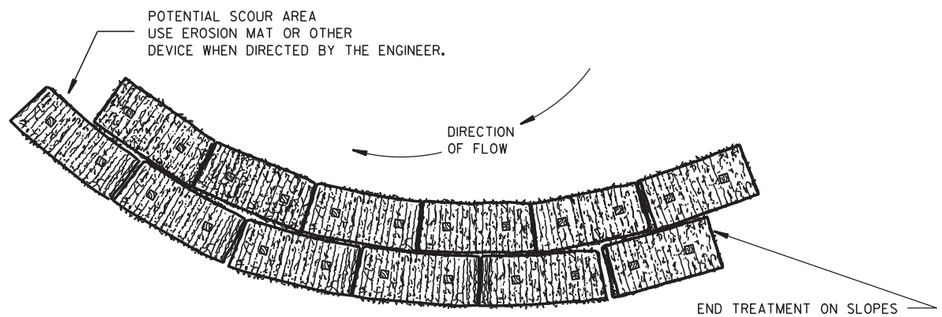
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

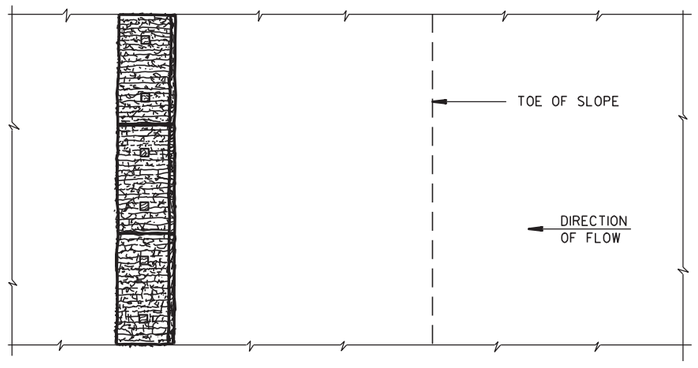
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

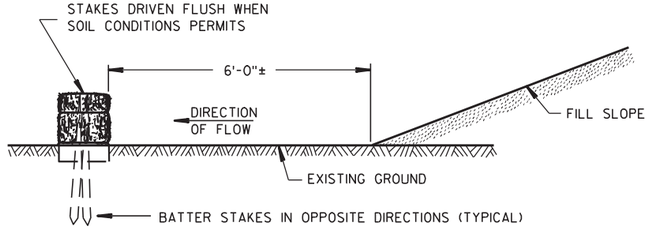


PLAN VIEW

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

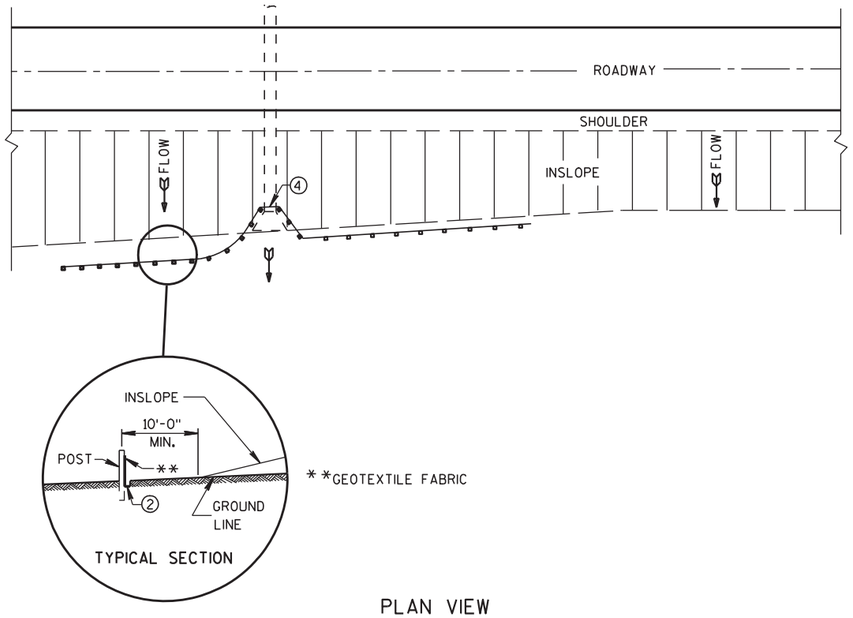
APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

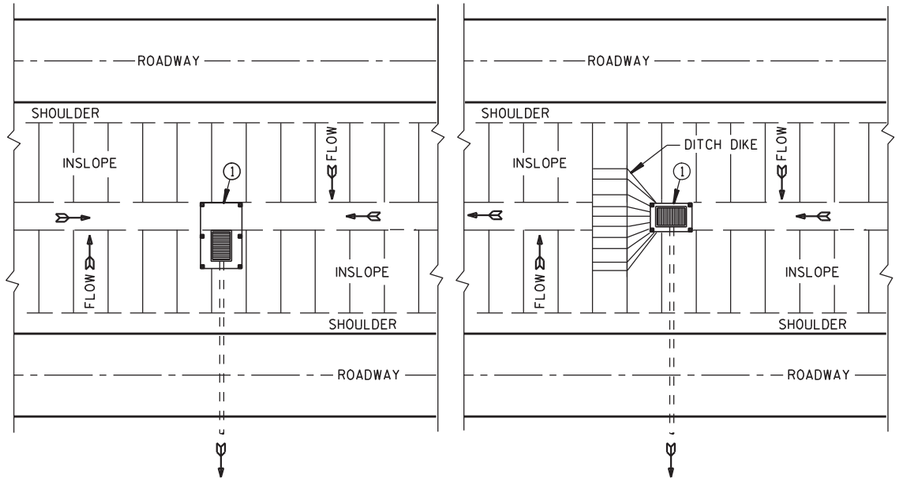
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



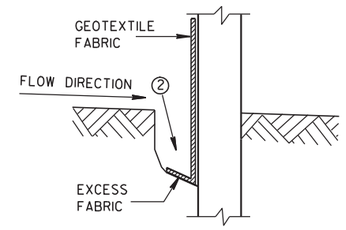
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

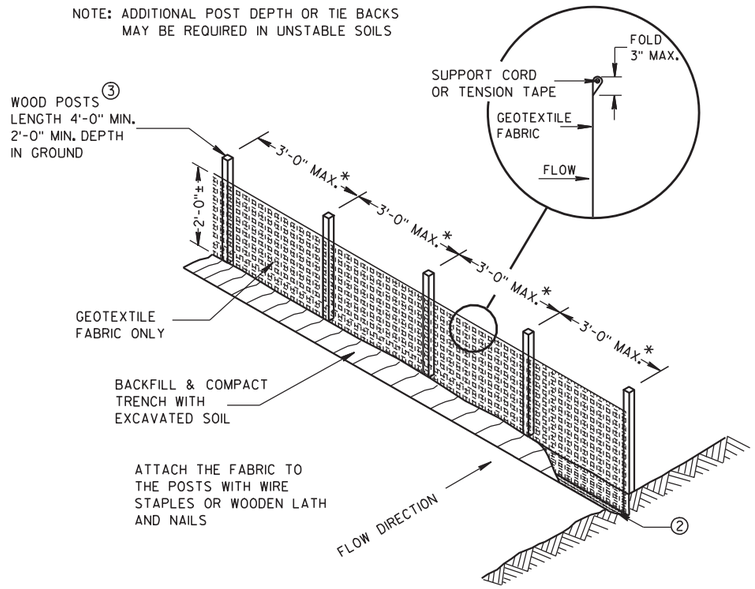
GENERAL NOTES

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

1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

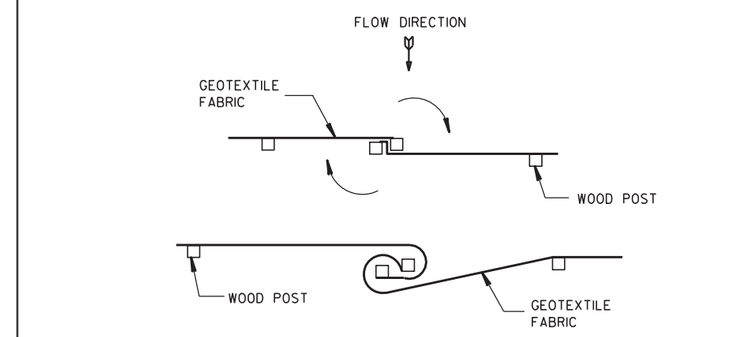


TRENCH DETAIL

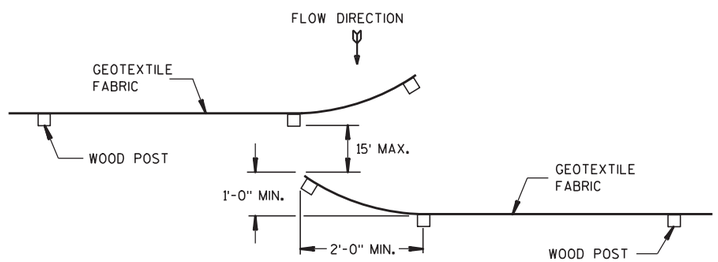


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

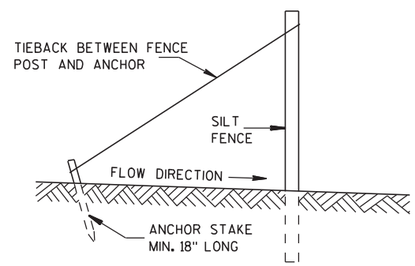


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

S.D.D. 8 E 9-6

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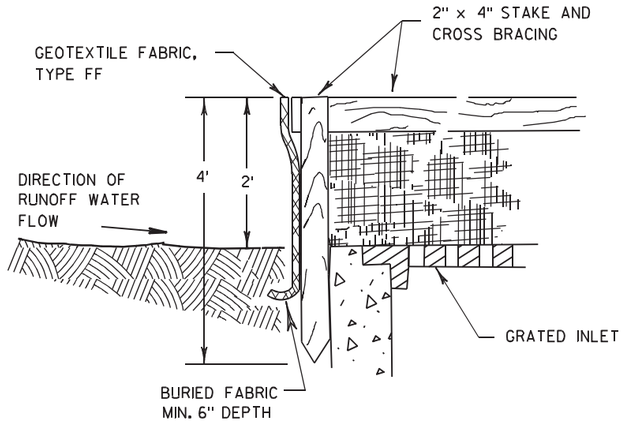
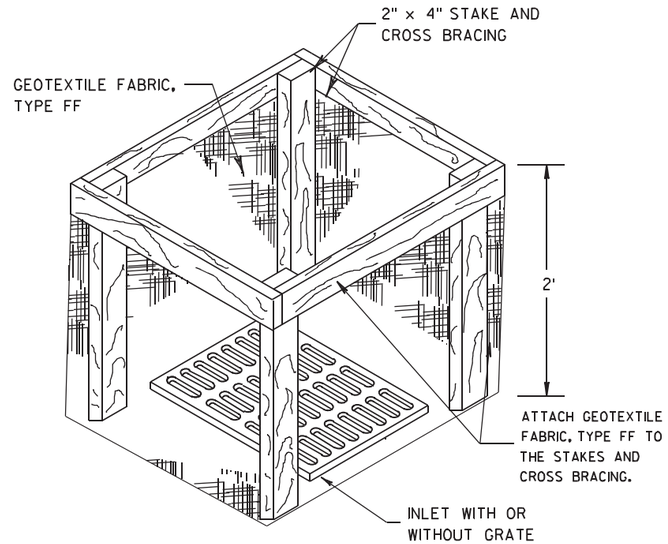
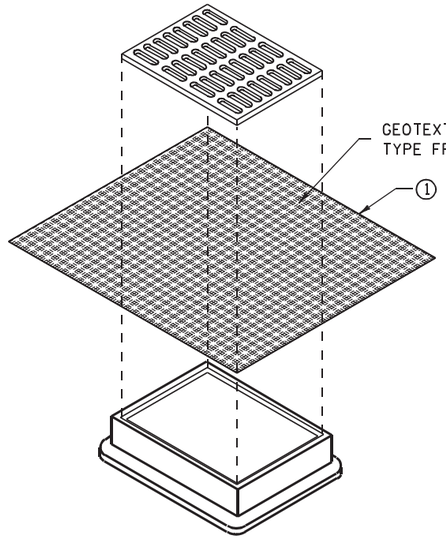
S.D.D. 8 E 9-6



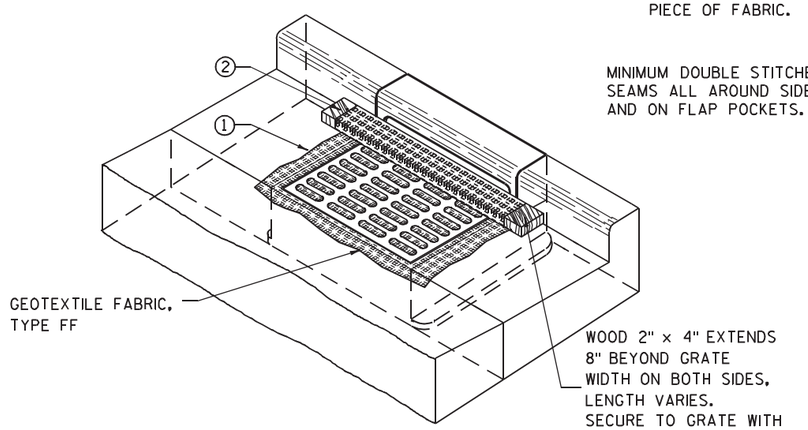


INLET PROTECTION, TYPE A

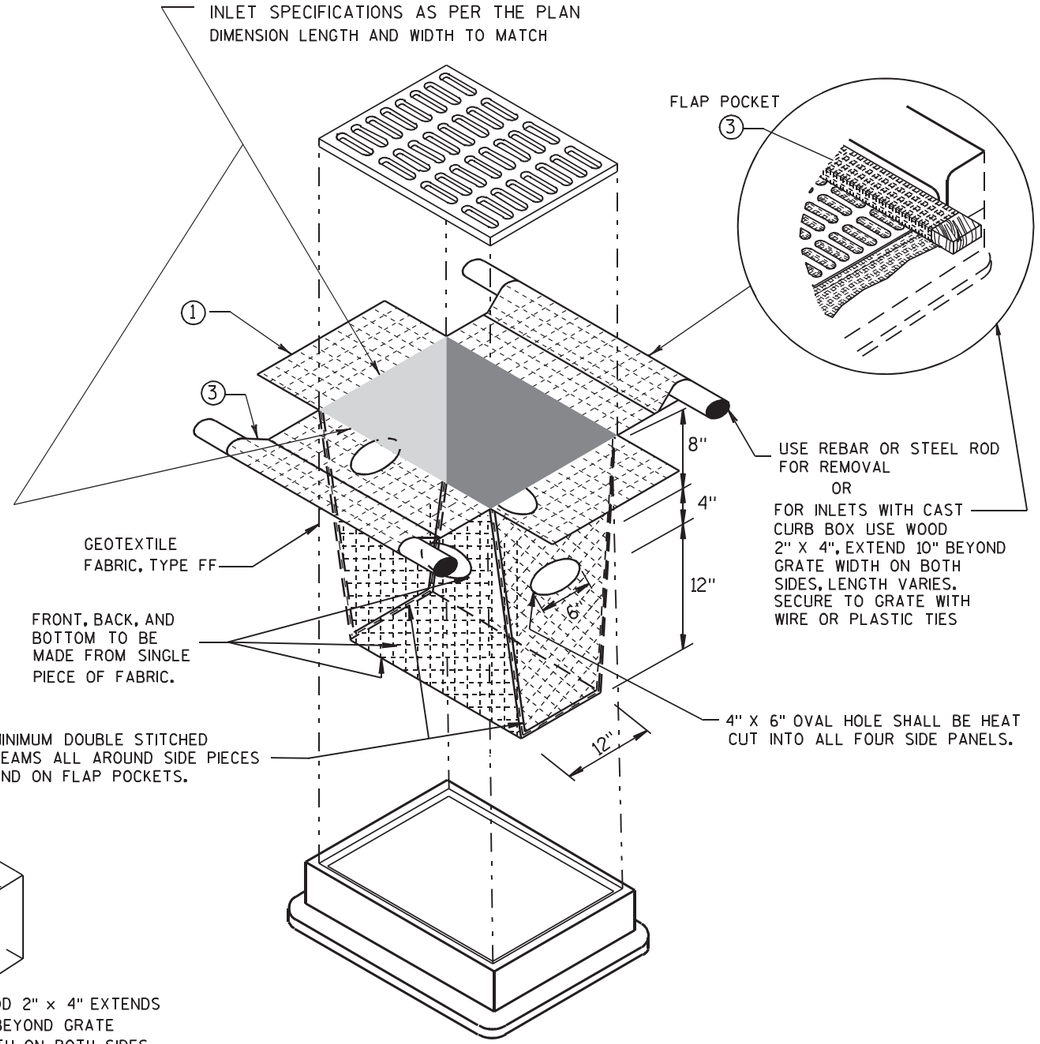


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2

METAL APRON ENDWALLS

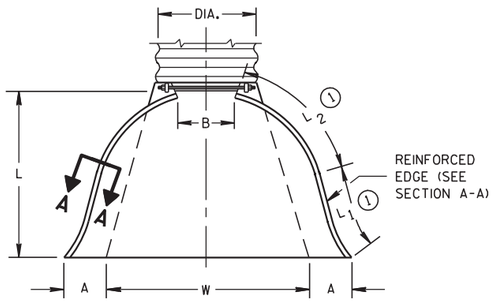
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

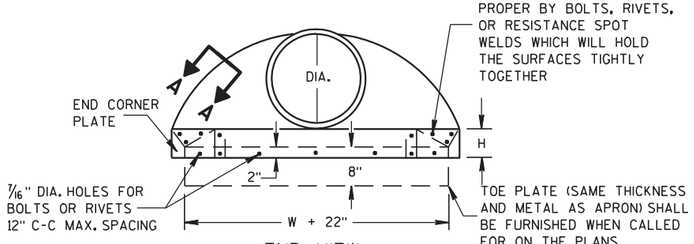
REINFORCED CONCRETE APRON ENDWALLS

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

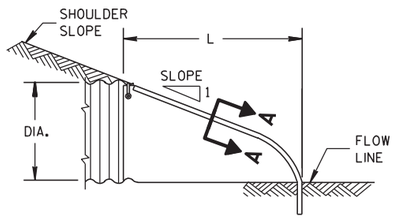
*MINIMUM
**MAXIMUM



PLAN VIEW

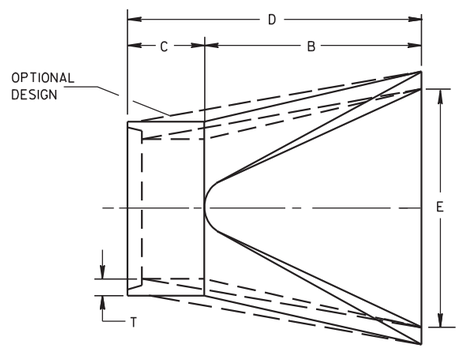


END VIEW

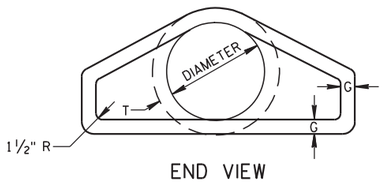


SIDE ELEVATION

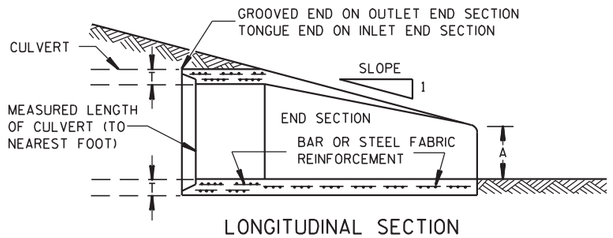
METAL ENDWALLS



PLAN

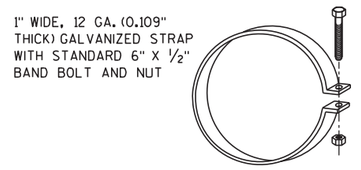


END VIEW



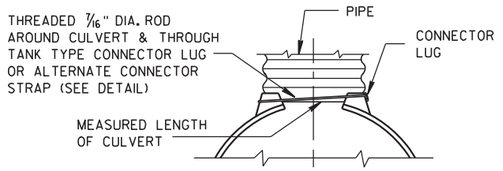
LONGITUDINAL SECTION

CONCRETE ENDWALLS

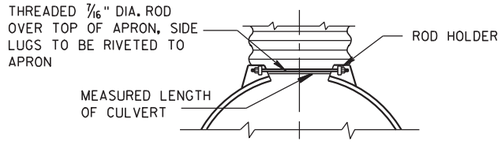


ALTERNATE FOR TYPE 1 CONNECTION

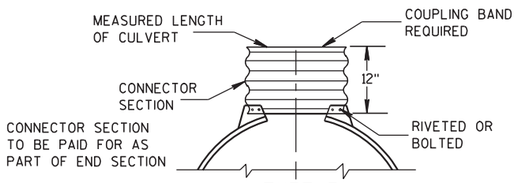
END SECTION CONNECTOR STRAP



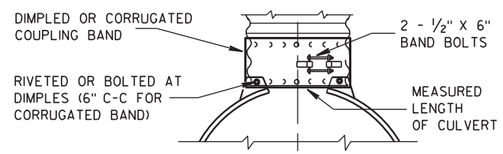
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

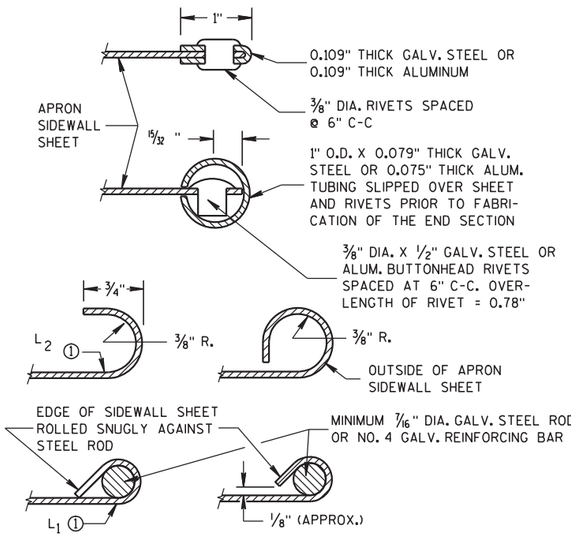
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

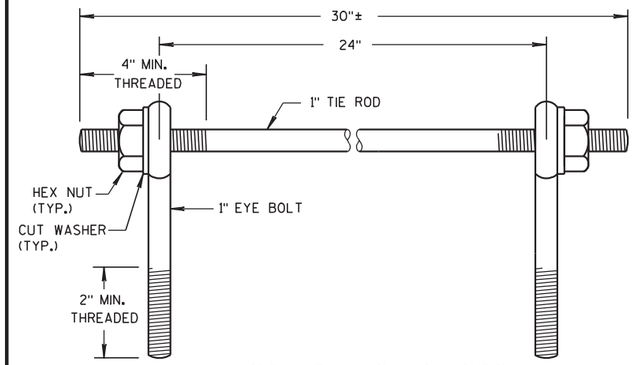
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

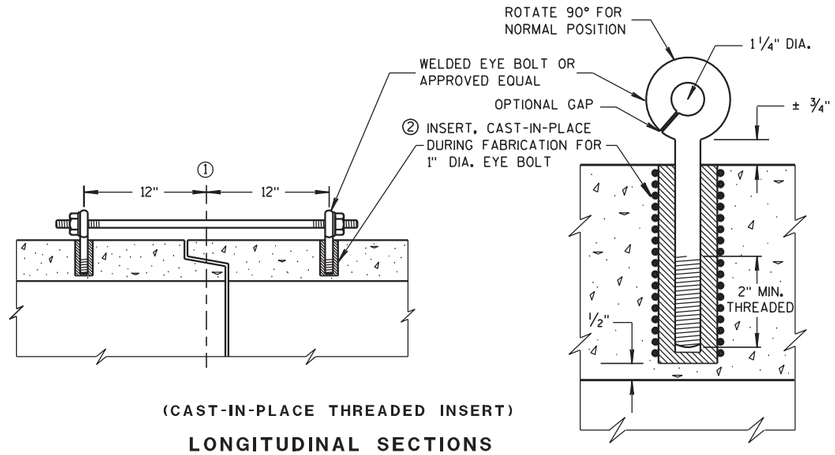
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOP NEER
FHWA

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



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

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

GENERAL NOTES

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

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

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

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

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

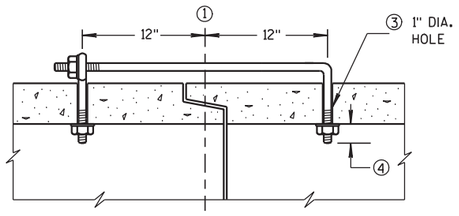
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

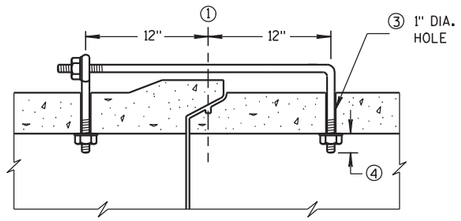
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

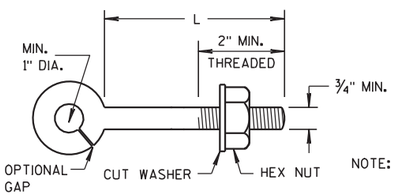


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

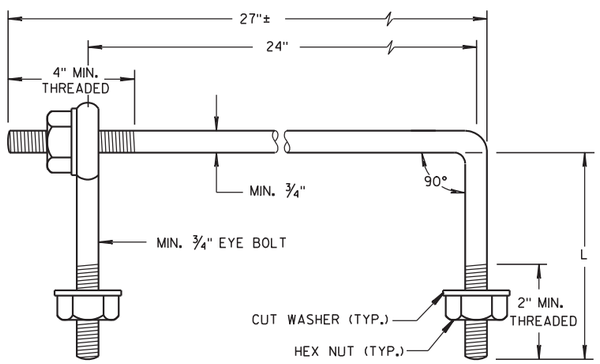
EYE BOLT DIMENSION TABLE

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



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

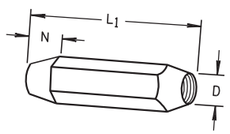
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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 7/16

DIMENSIONS SHOWN ARE IN INCHES



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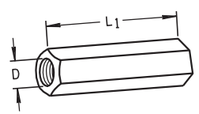
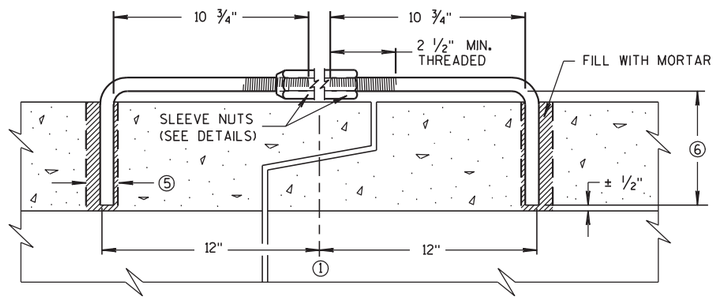


PLAIN

RIGHT AND LEFT THREADS

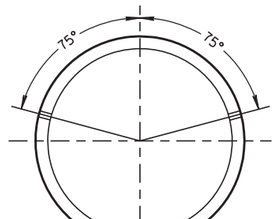
SLEEVE NUTS



LONGITUDINAL SECTION

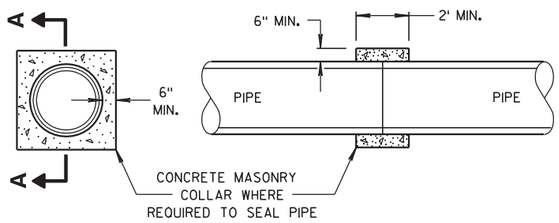
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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
106
FHWA

6

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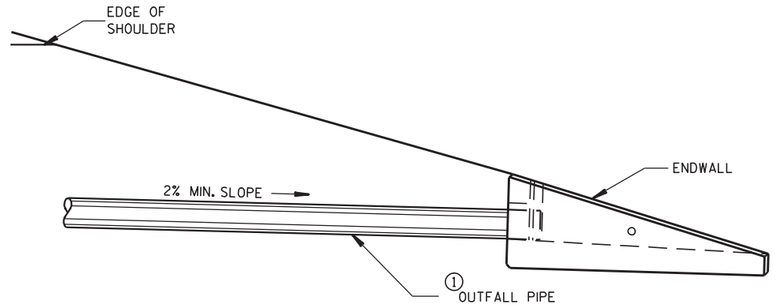
S.D.D. 8 F 4-7

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION DETAIL

GENERAL NOTES

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

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

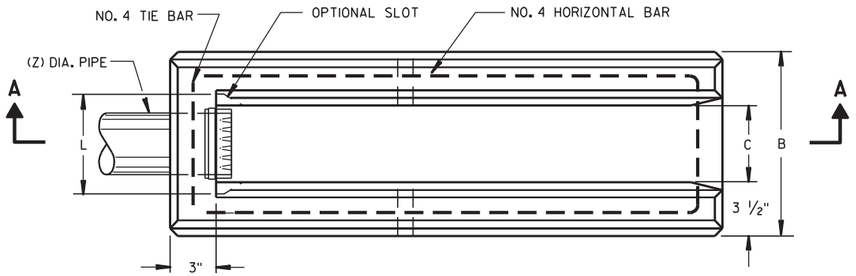
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

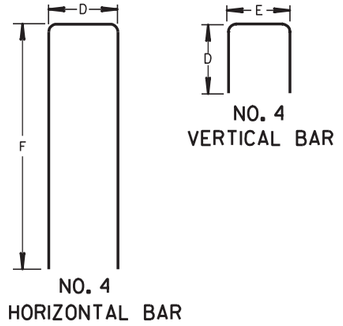
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

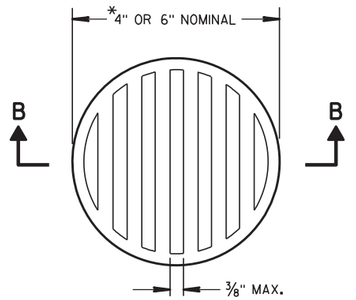
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

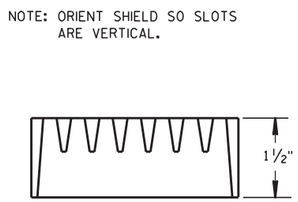


PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS

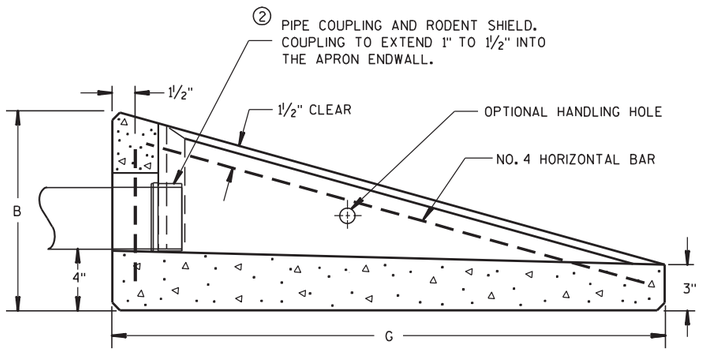




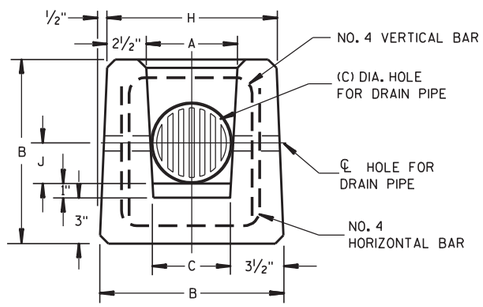
SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.



SECTION A-A



END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN

REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/10/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 6-4

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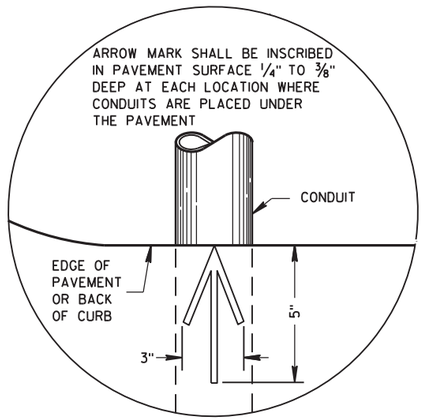
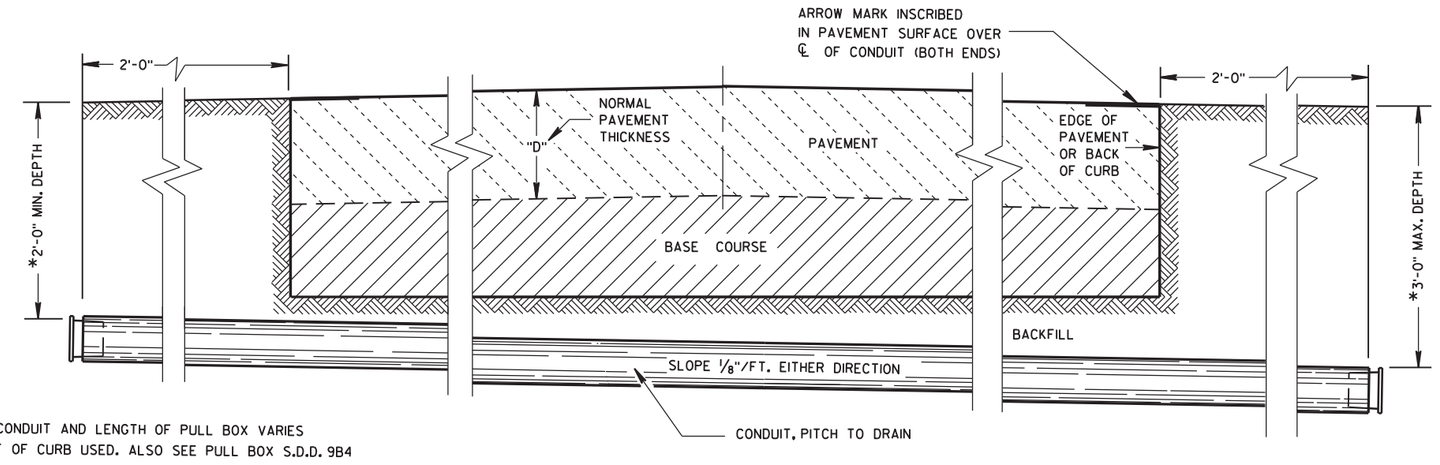
S.D.D. 8 F 6-4



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

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

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

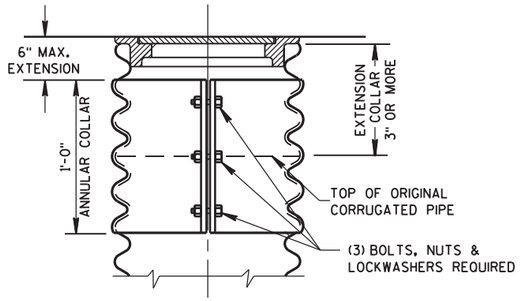
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

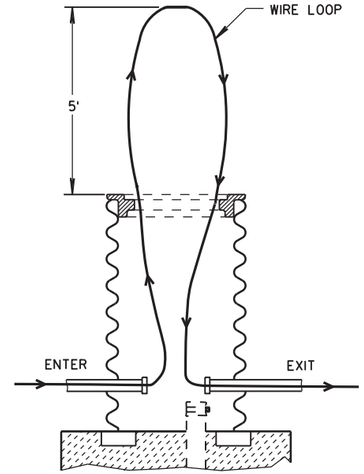
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

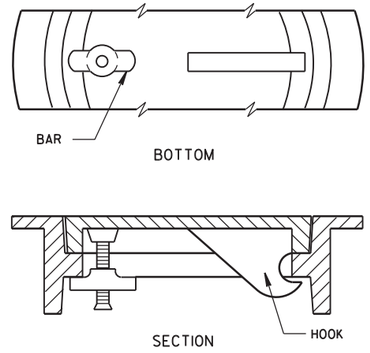
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

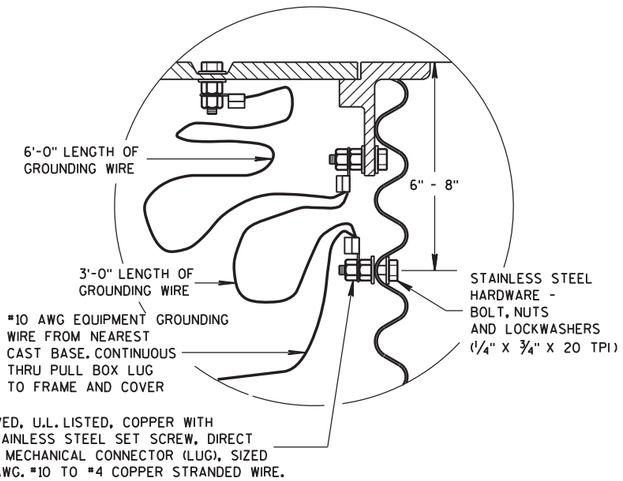


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

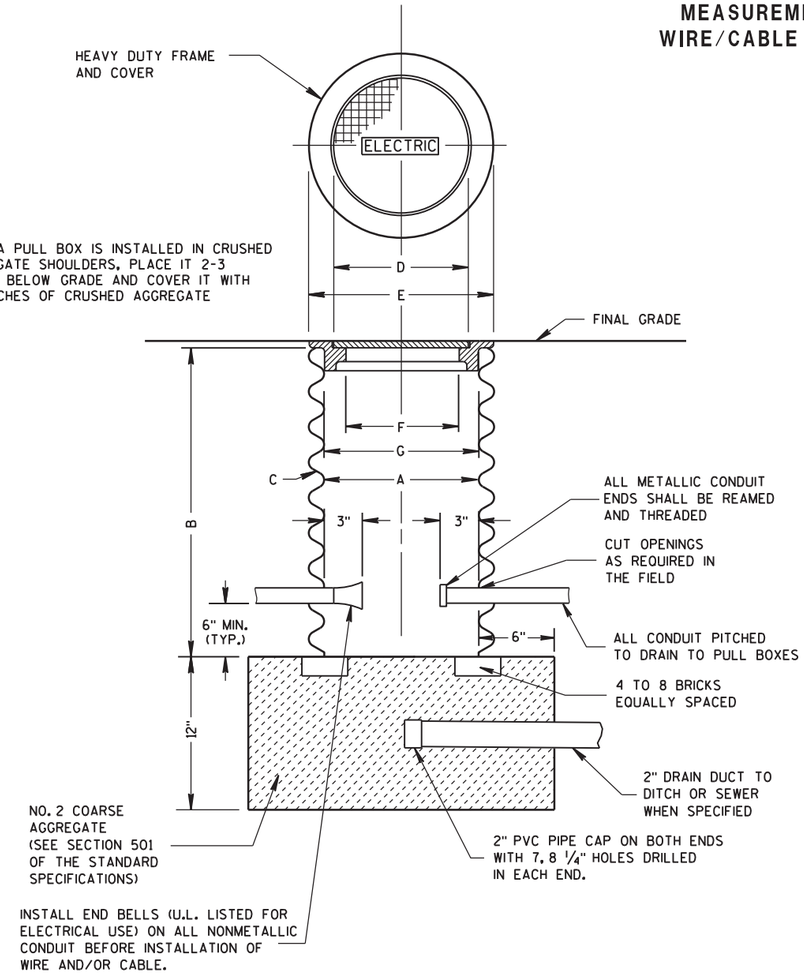
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

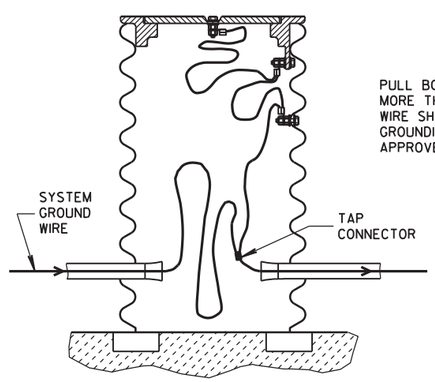
GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

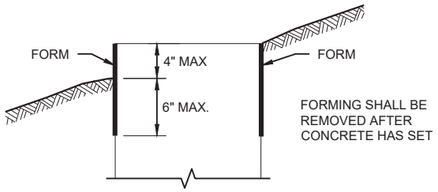
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

S.D.D. 9 B 4-11

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

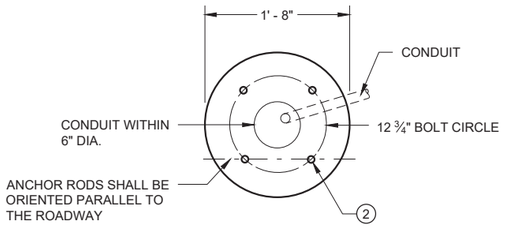
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

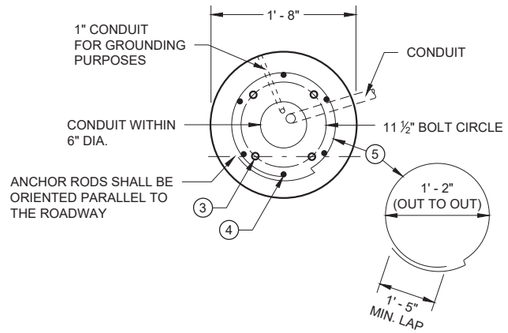
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

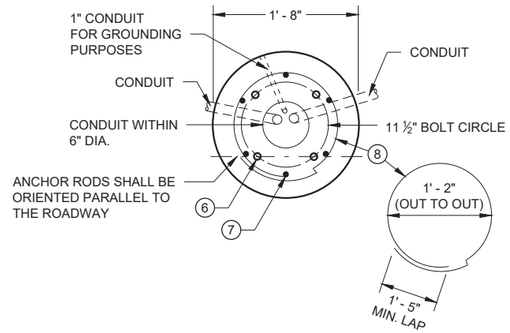
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).







1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

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

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

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

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

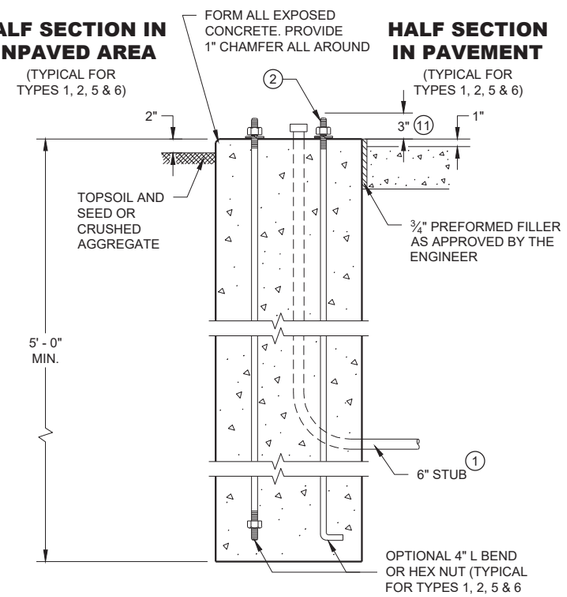
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

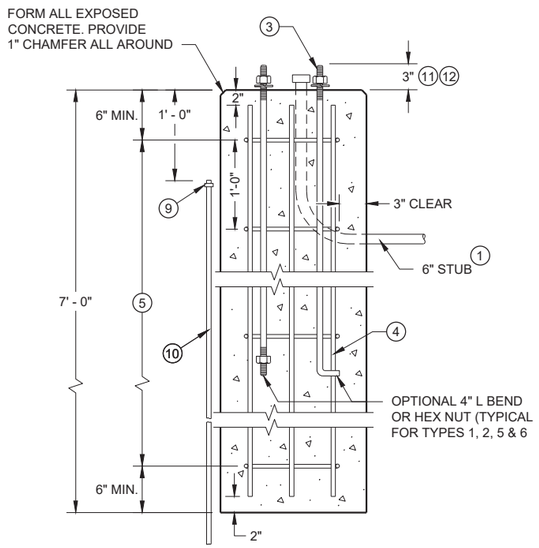
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



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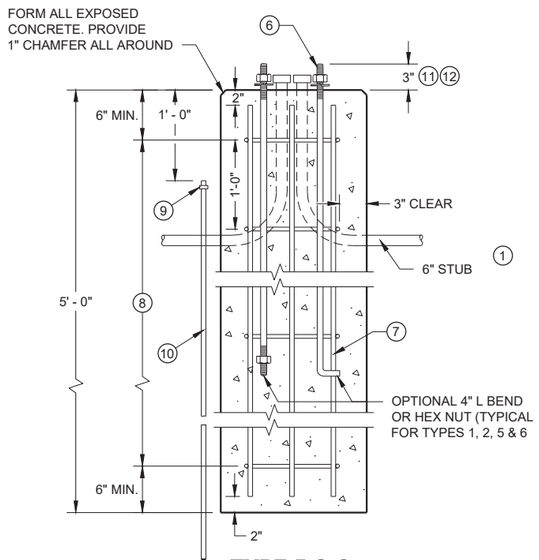


TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 110

FHWA

6
SDD 09C02 - 09

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

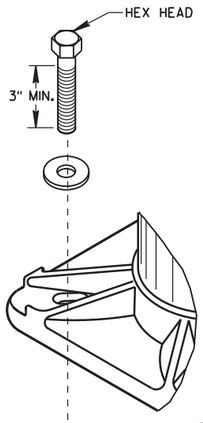
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

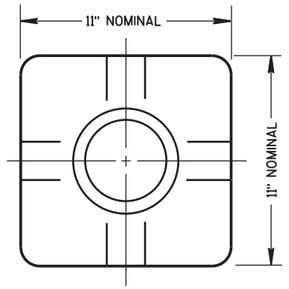
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

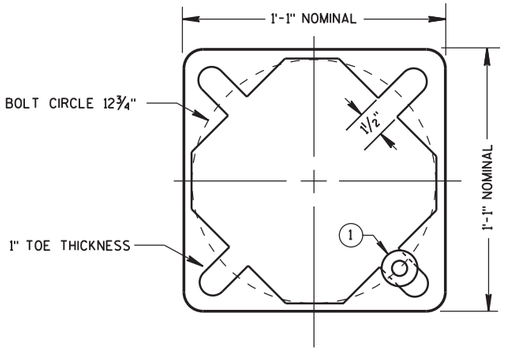
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

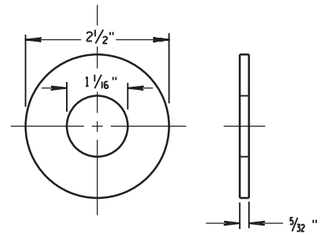




TOP VIEW
(PEDESTAL BASE)

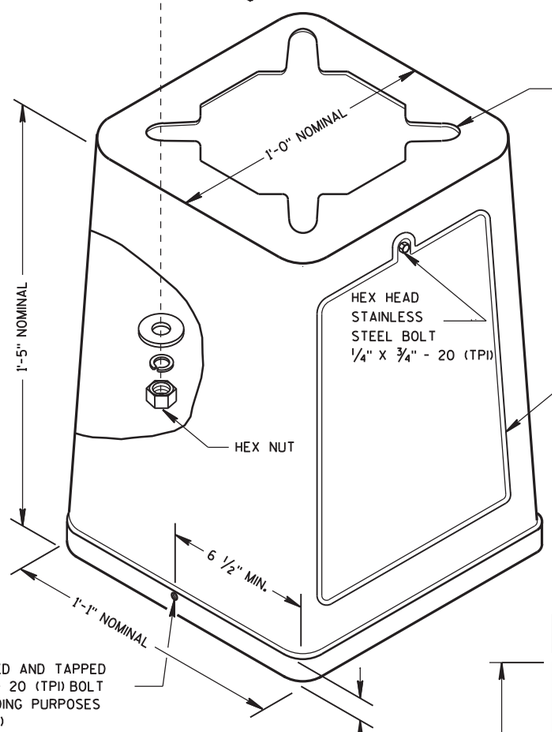


BOTTOM VIEW
(PEDESTAL BASE)

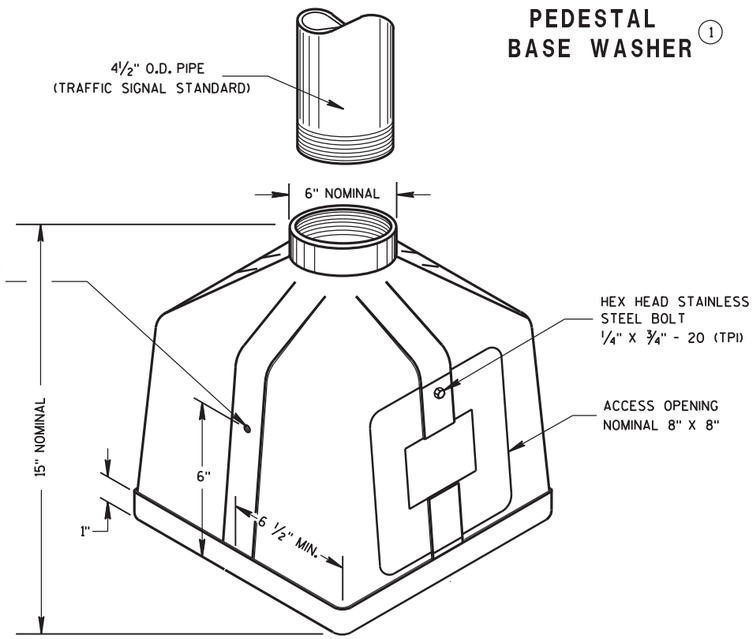


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

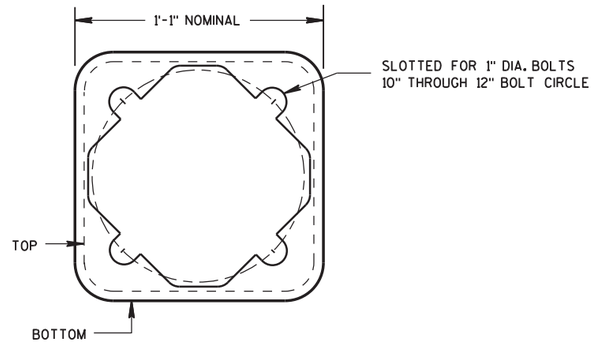


ISOMETRIC VIEW

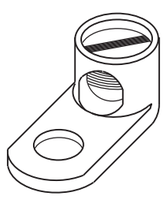


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

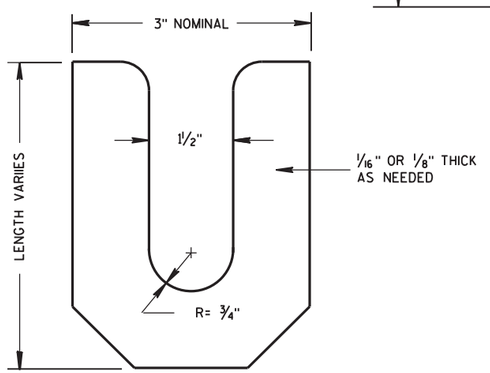


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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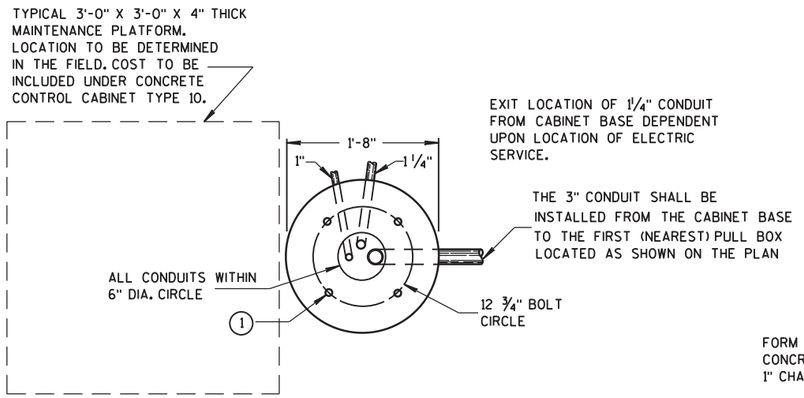
S.D.D. 9 C 3-4

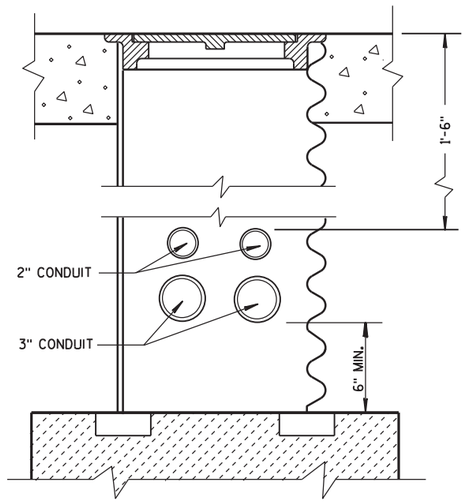
6

S.D.D. 9 C 3-4

CONTROL CABINET BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	H	I	J	K	
TYPE 6 - 30" CABINET	34"	60"	10"	17"	.64
TYPE 7 - 38" CABINET	42"	60"	10"	21"	.93
TYPE 8 - 38" CABINET	42"	72"	12"	21"	1.29
TYPE 9 - VARIABLE	54"	72"	14"	27"	1.56
TYPE 10 - POST MOUNT	AS SHOWN				.65 *

* INCLUDES MAINTENANCE PLATFORM.





CONDUIT LOCATIONS IN 24" X 36" PULL BOX

(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SQUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ALL FOUR (TWO INCH AND THREE INCH) CONDUIT SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

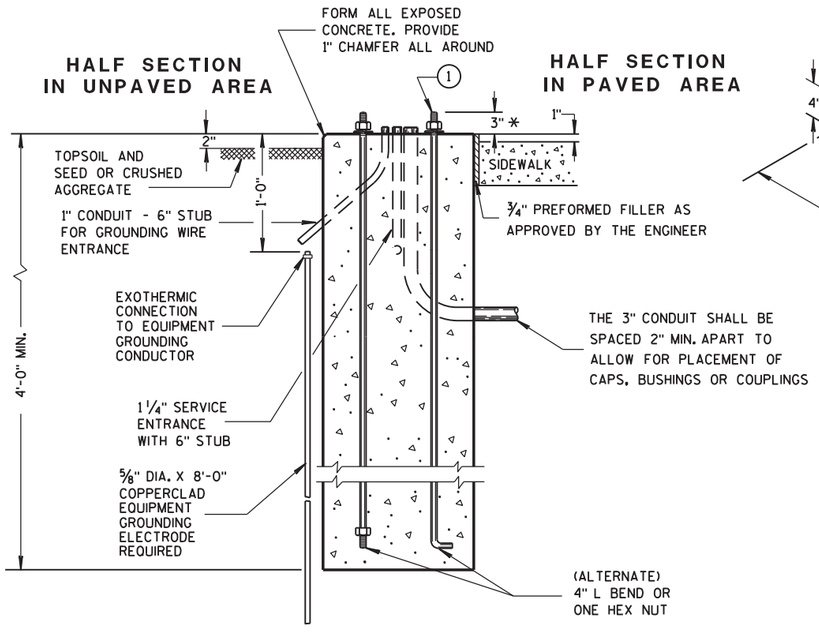
STRAIGHT ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

(1) FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6". ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

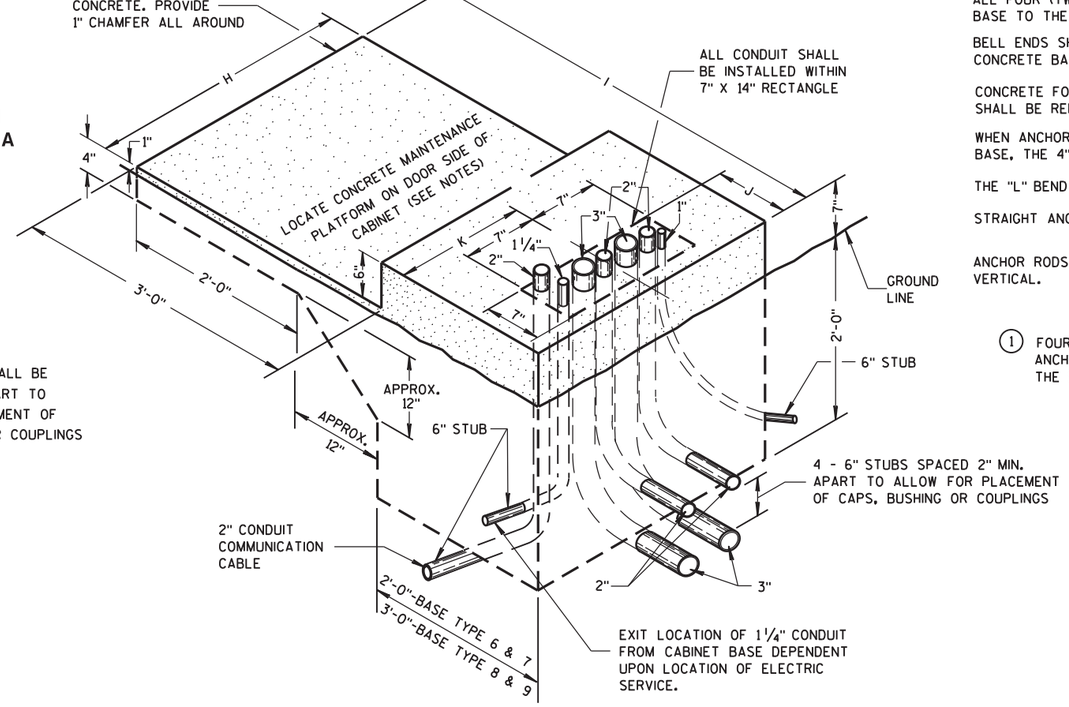
HALF SECTION IN UNPAVED AREA

HALF SECTION IN PAVED AREA



TYPE 10

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.



TYPE 6,7,8 AND 9
(ISOMETRIC VIEW)

CONCRETE CONTROL CABINET BASES

CONCRETE CONTROL CABINET BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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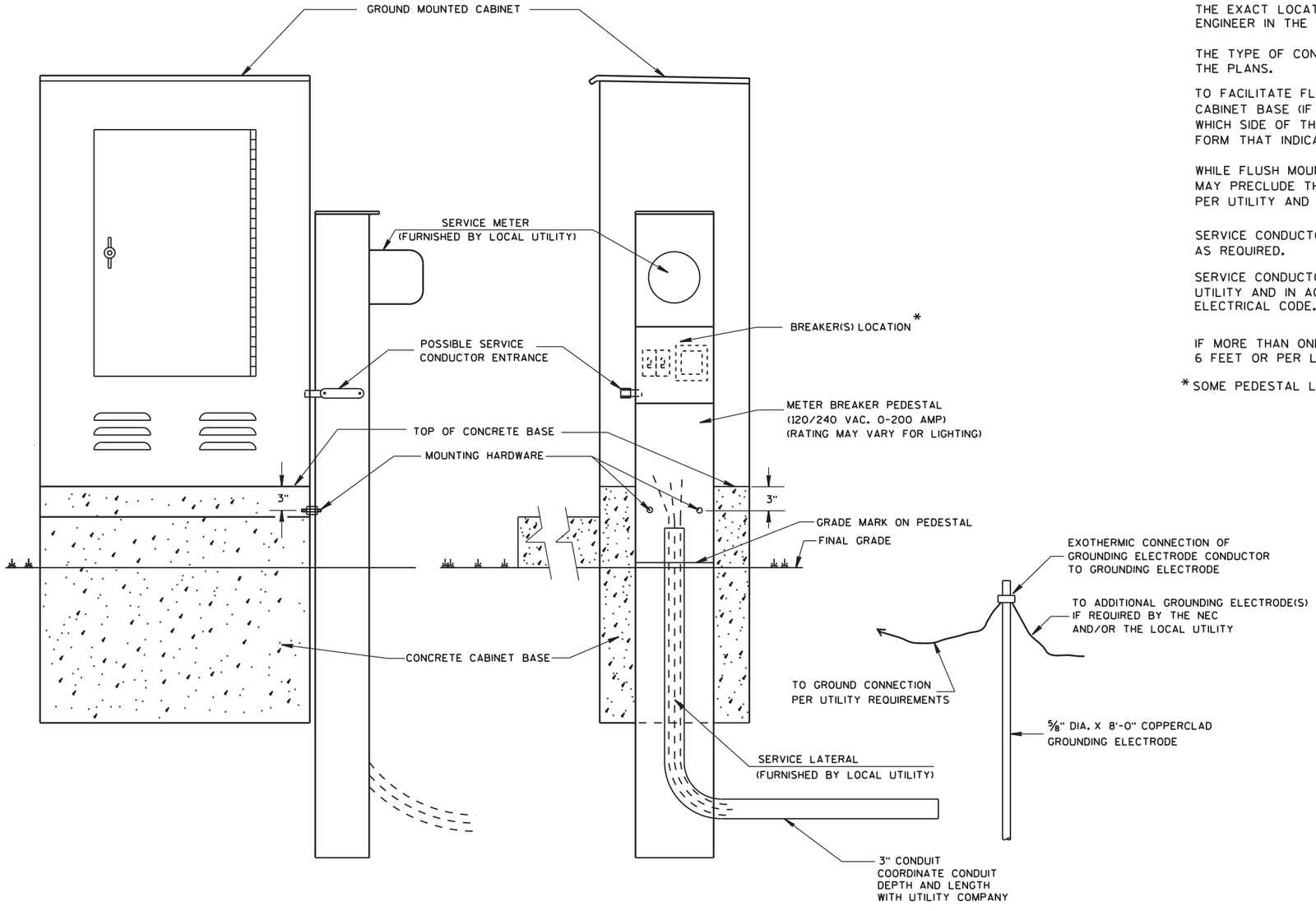

TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

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CABINET SERVICE INSTALLATION
(METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

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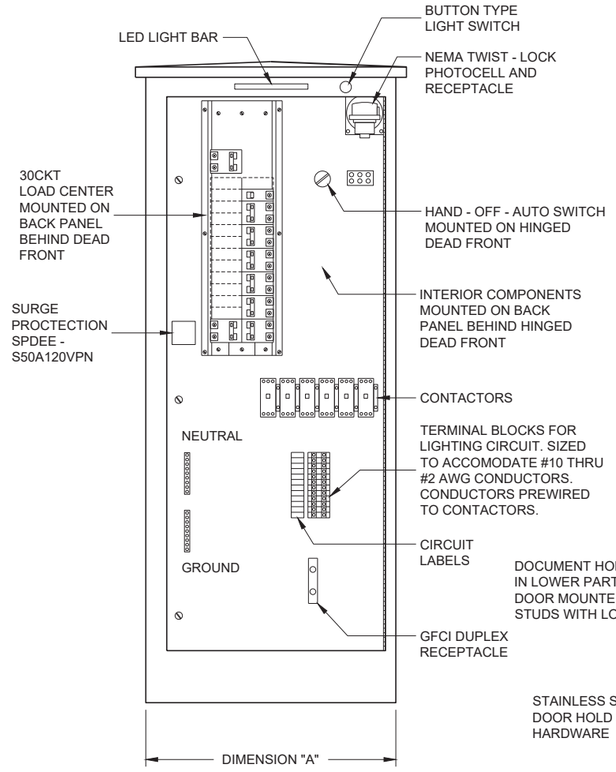
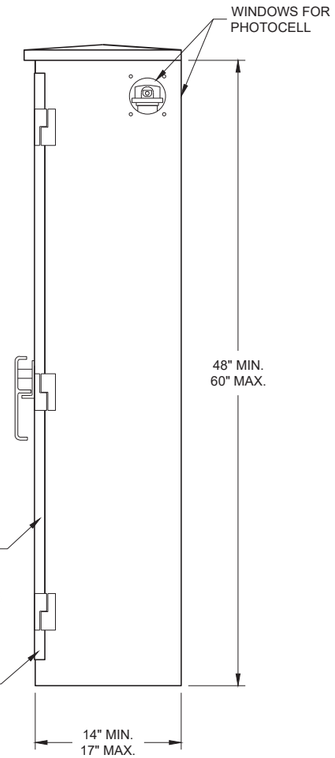
FRONT INTERIOR ELEVATION



SIDE VIEW



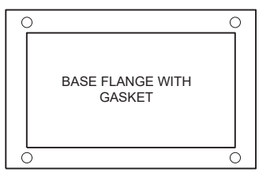
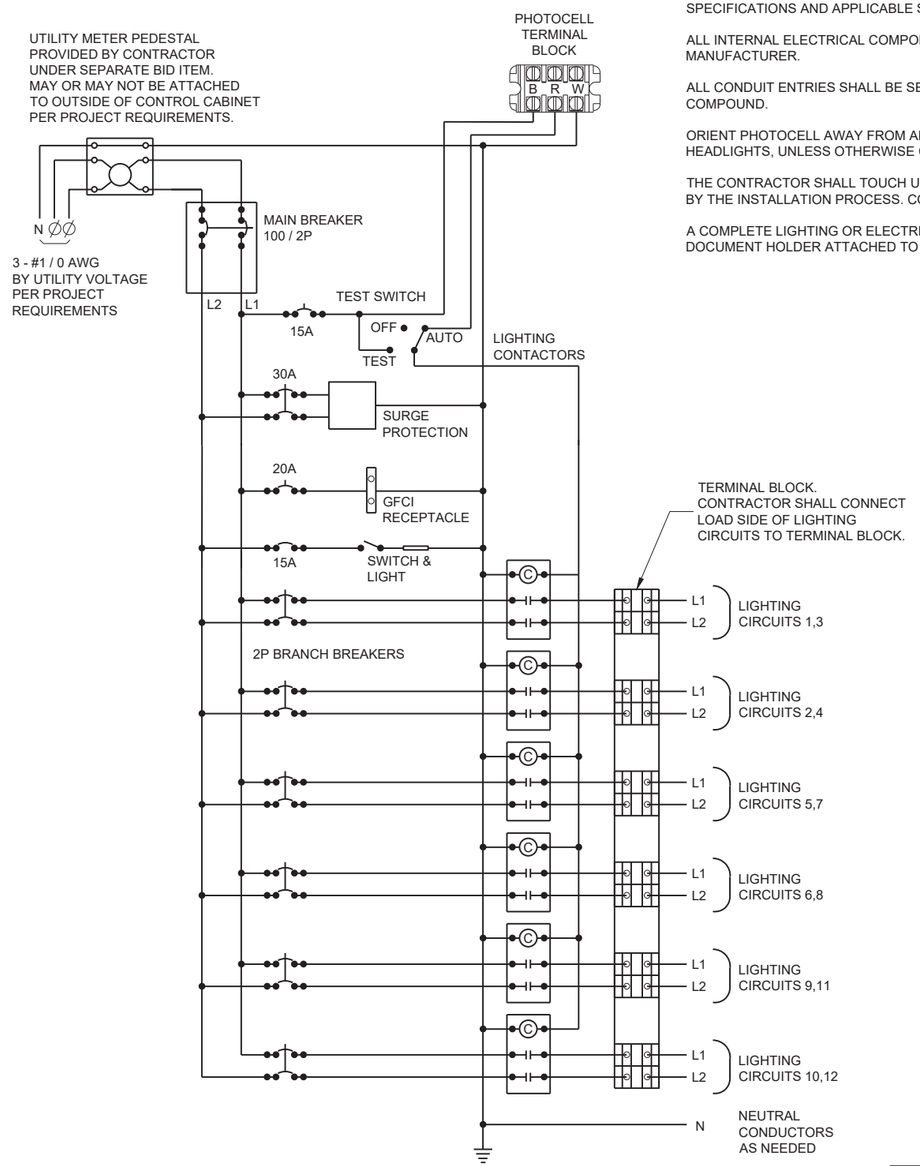


TABLE OF DIMENSIONS (INCHES)		
CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

GENERAL NOTES

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

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE - WIRED BY THE CABINENT MANUFACTURER.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS, UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISION.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

LIGHTING CONTROL CABINET
120 / 240 VOLT

STATE OF WISCONSIN
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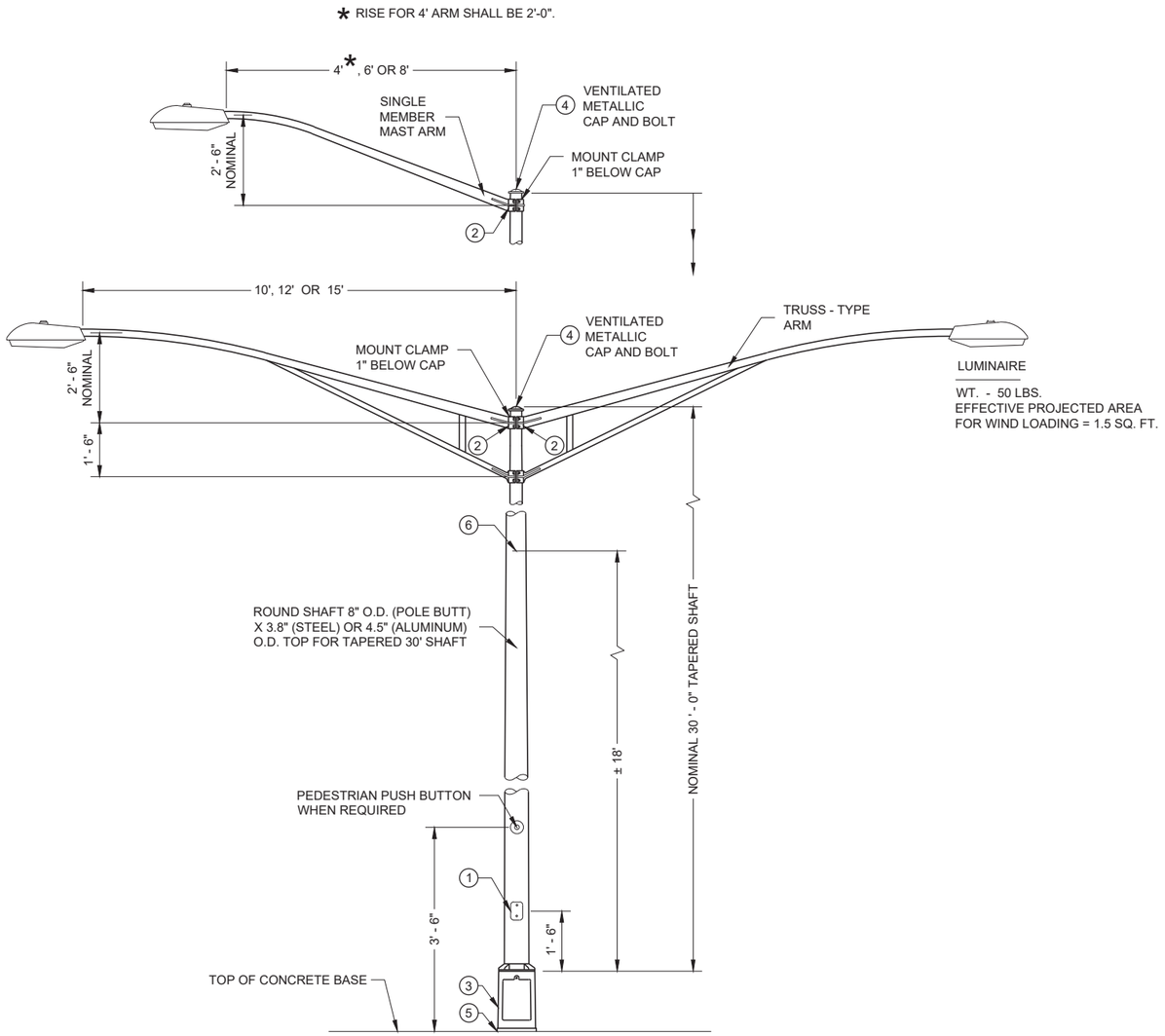


TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

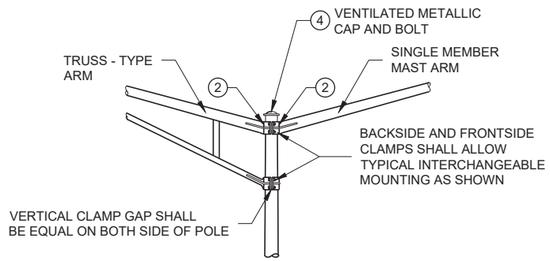
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.



INTERCHANGEABLE MOUNTING DETAIL

POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

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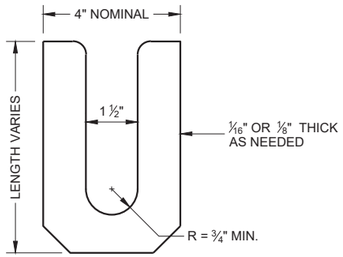
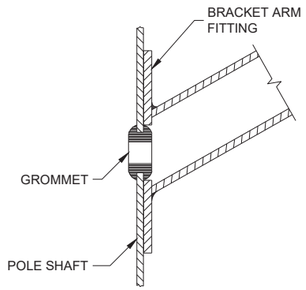
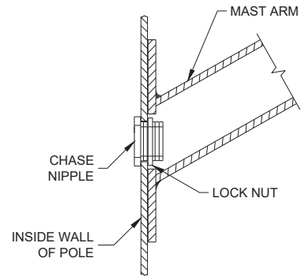


LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

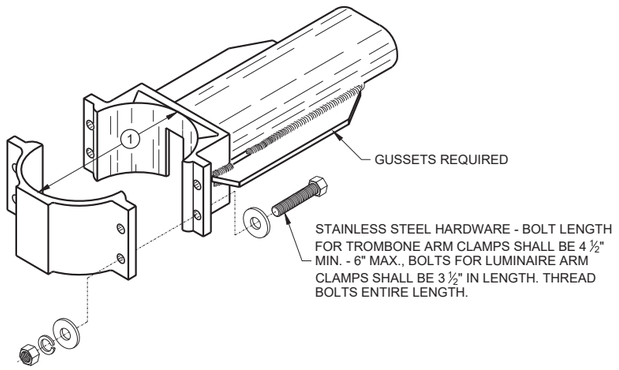
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

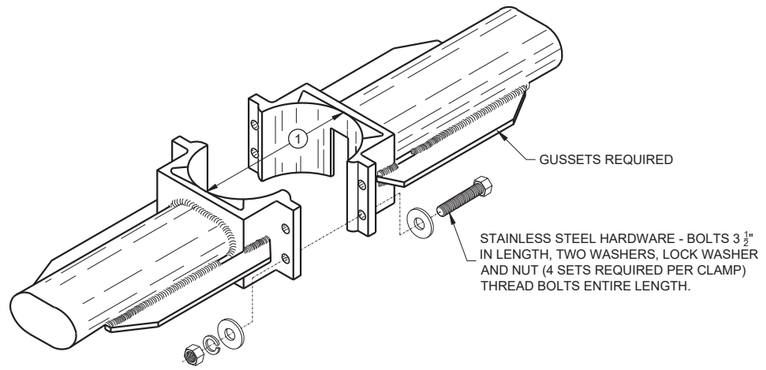
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

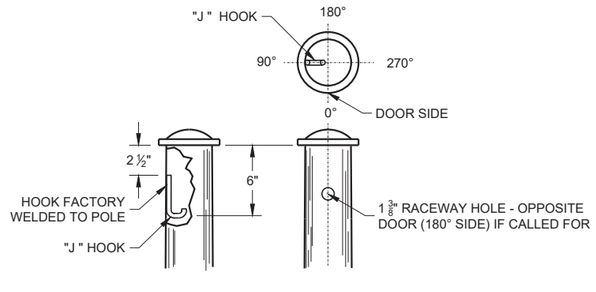
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



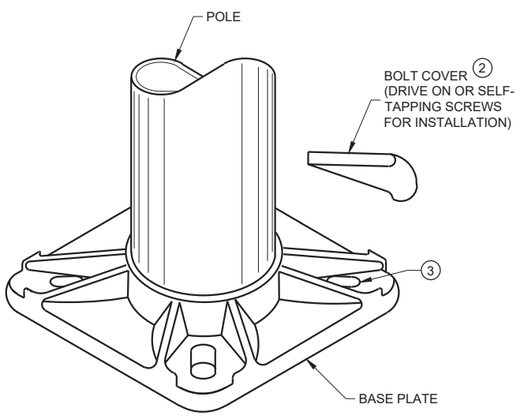
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



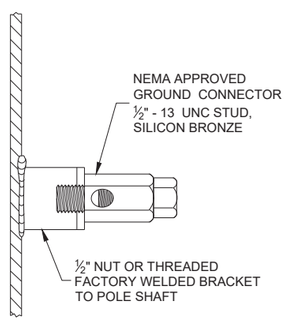
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

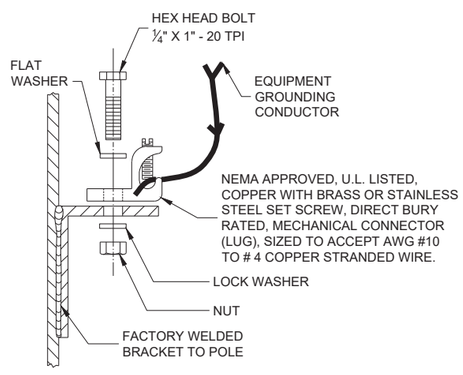


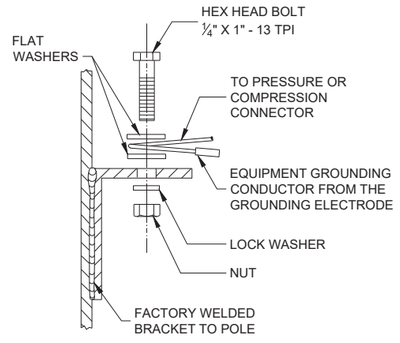
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
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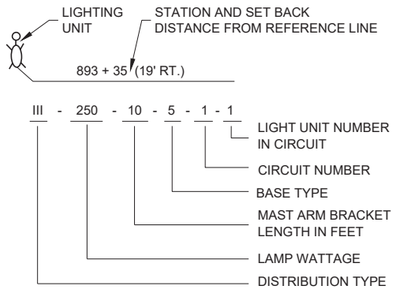
GENERAL NOTES

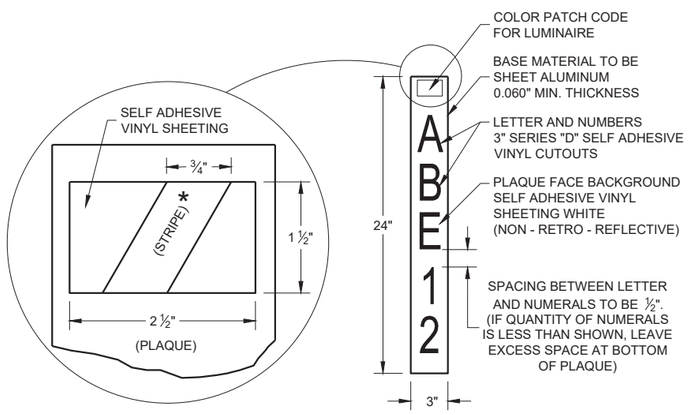
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.



LIGHTING UNIT CODE
(TYPICAL)

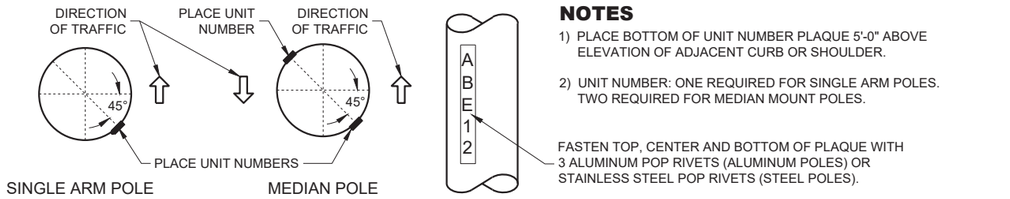


COLOR PATCH CODE FOR LUMINAIRES

(HIGH PRESSURE SODIUM)
1000 WATT - NO PATCH
400 WATT - ORANGE
310 WATT - BLUE
250 WATT - ORANGE W / WHITE STRIPE *
200 WATT - RED
150 WATT - GREEN
100 WATT - BROWN

(MERCURY VAPOR)
400 WATT - NO PATCH
250 WATT - YELLOW

IDENTIFICATION PLAQUE



NOTES

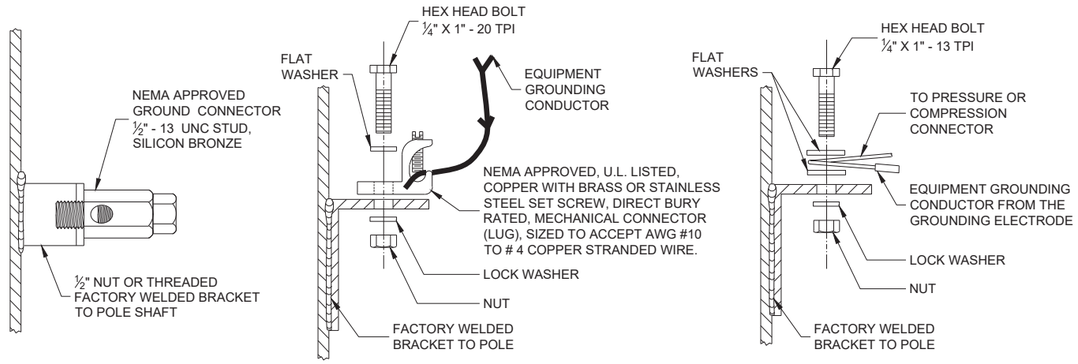
1) PLACE BOTTOM OF UNIT NUMBER PLAQUE 5'-0" ABOVE ELEVATION OF ADJACENT CURB OR SHOULDER.

2) UNIT NUMBER: ONE REQUIRED FOR SINGLE ARM POLES. TWO REQUIRED FOR MEDIAN MOUNT POLES.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE WITH 3 ALUMINUM POP RIVETS (ALUMINUM POLES) OR STAINLESS STEEL POP RIVETS (STEEL POLES).

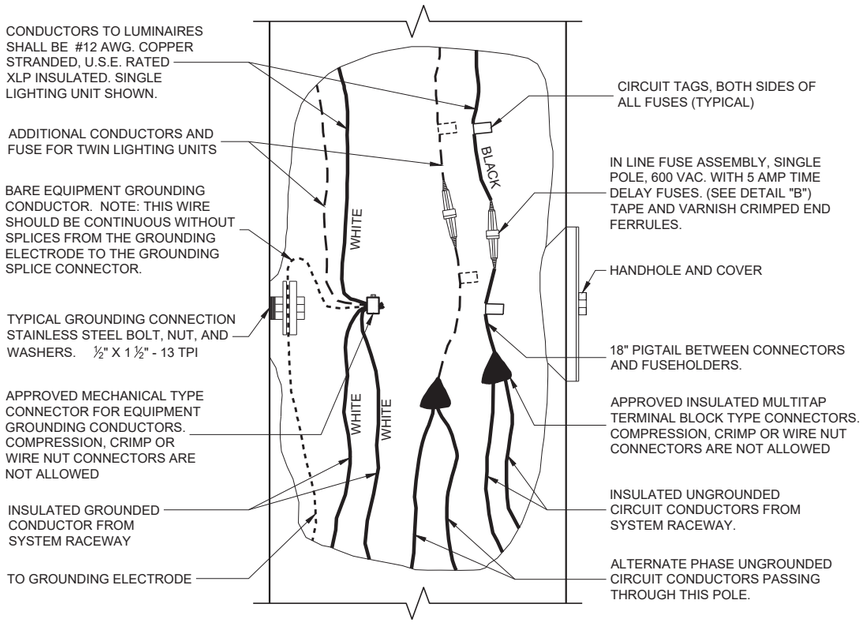
LIGHTING UNIT IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENT
(TYPICAL, ALL LIGHTING UNITS)

FURNISH PLAQUE WHEN CALLED FOR BY SPECIAL PROVISIONS

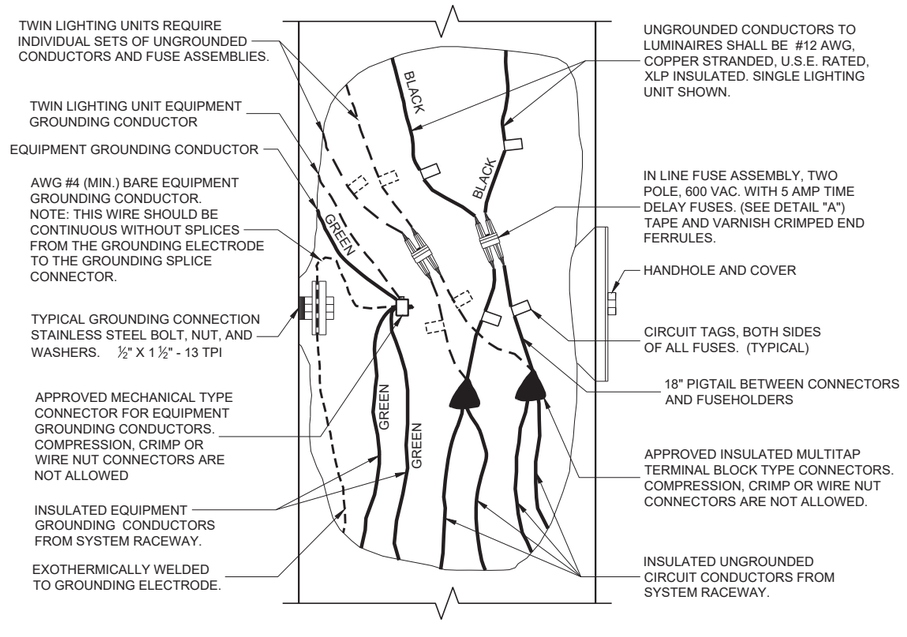


TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

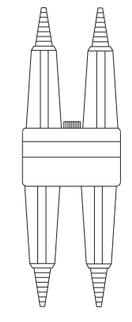
OLD EXISTING FREEWAY WIRING (SOME AREAS)



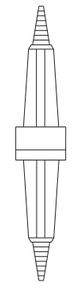
2 WIRE - 120, 240, OR 480 VAC TO GROUND



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR



DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT

FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

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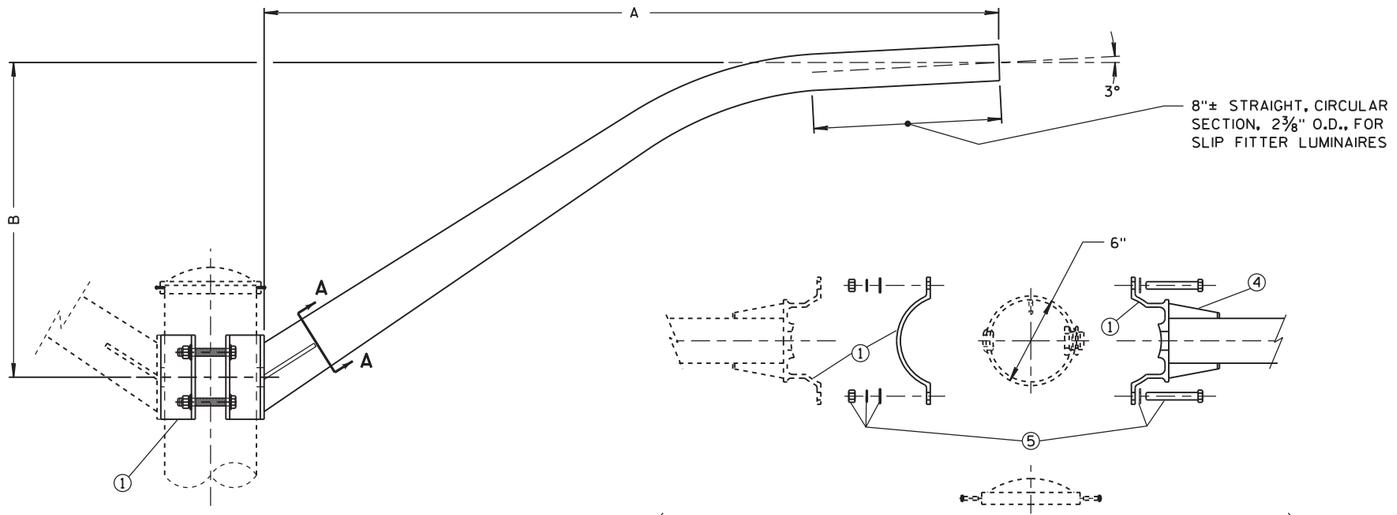
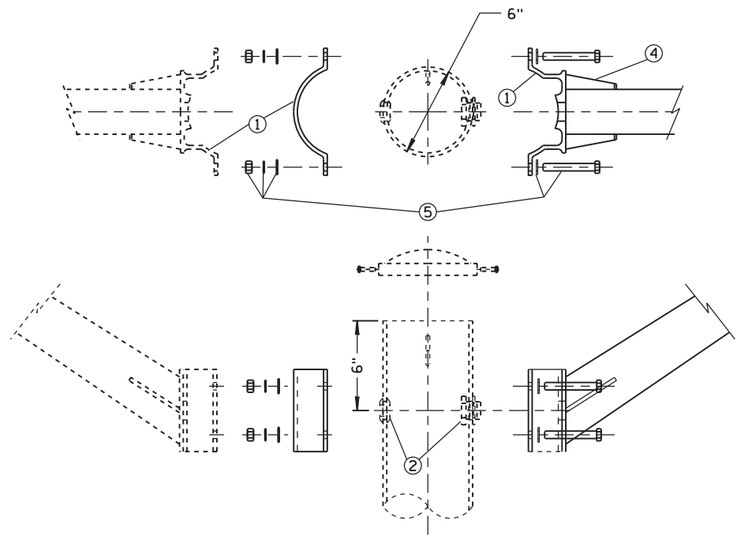


LUMINAIRE ARMS, SINGLE MEMBER, 6-INCH CLAMP - FOR POLES, TYPE 7, A OR E

VARIOUS LENGTHS (SEE TABLE)



CLAMP ASSEMBLY

SINGLE MEMBER CLAMP SHOWN

TYPE	DIM. A NOMINAL ARM LENGTH (FT)	DIM. B APPROX. RISE (FT)
SINGLE MEMBER	4.0	2.0
SINGLE MEMBER	8.0	3.0
SINGLE MEMBER	10.0	3.0
SINGLE MEMBER	15.0	3.0

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ARMS AND CLAMP EXTRUSIONS SHALL BE CONSTRUCTED OF NATURAL FINISH 6063-T6 ALUMINUM.

HEAT TREATMENT OF WELDS IN STRUCTURAL AREAS IS REQUIRED.

ALL THREADED FASTENER COMPONENTS SHALL BE STAINLESS STEEL. NUTS SHALL BE HEX NUTS. BOLTS SHALL BE HEX HEAD. ALL THREADED SURFACES SHALL BE COATED WITH ANTI-SEIZE COMPOUND PRIOR TO INSTALLATION.

LUMINAIRE LOADING FOR DESIGN CALCULATION SHALL BE 50 LBS. IN WEIGHT AND 1.5 SQ. FT. FOR E.P.A..

① CLAMPS SHALL BE EXTRUDED ALUMINUM.

② RACE WAY: 1⅜" FIELD DRILLED HOLE WITH 1" CHASE NIPPLE AND NUT (OR NEOPRENE GROMMET) PER EACH REQUIRED LUMINAIRE ARM. PROVIDE 1½" HOLE IN CLAMP EXTRUSION TO CONTINUE RACEWAY.

③ STIFFENER

④ GUSSETS REQUIRED.

⑤ CLAMP BOLT ASSEMBLY (BOLT - ½"-13 UNC, 2 EACH - FLAT WASHER, LOCK WASHER, NUT) - 4 EACH PER CLAMP.

LUMINAIRE ARMS, SINGLE MEMBER 6-INCH CLAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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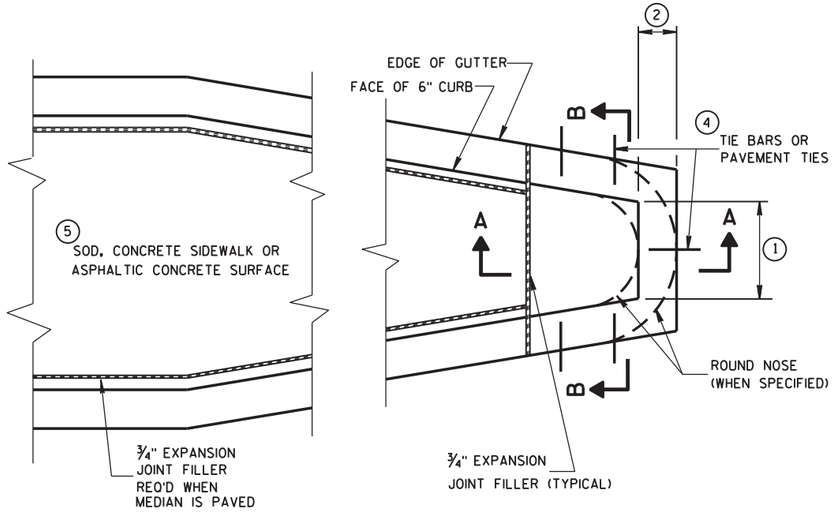
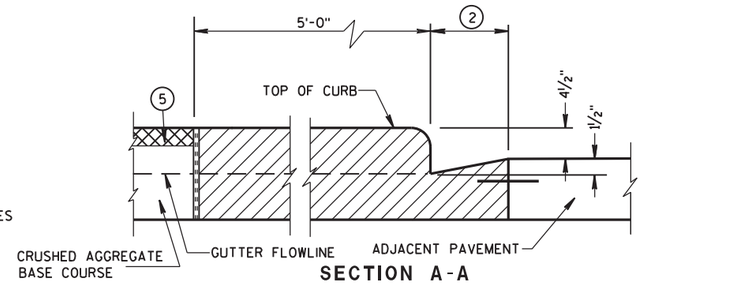
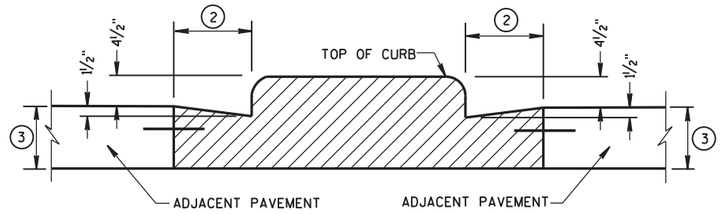




SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

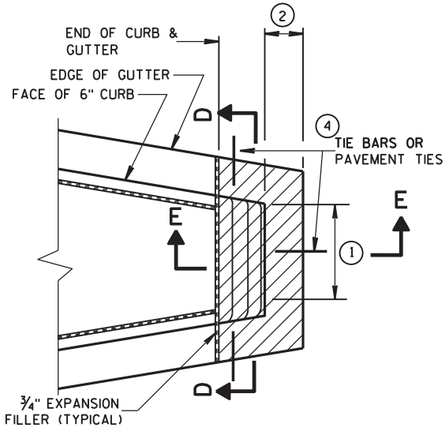
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

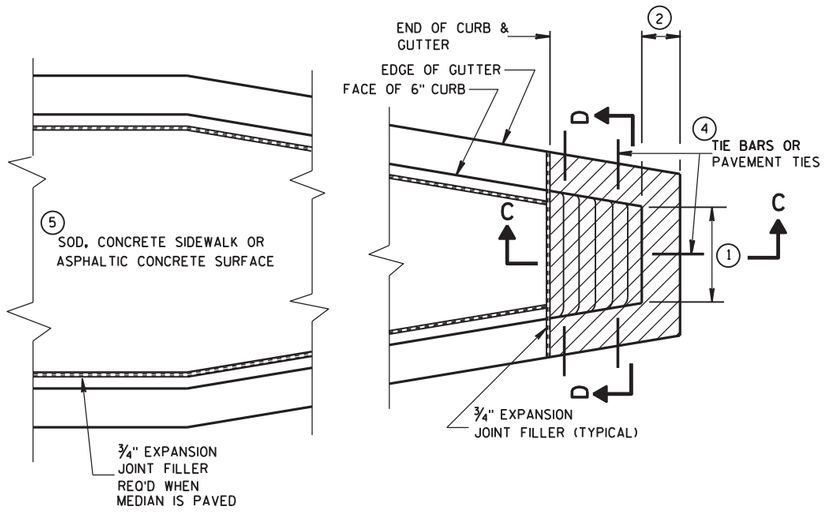
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

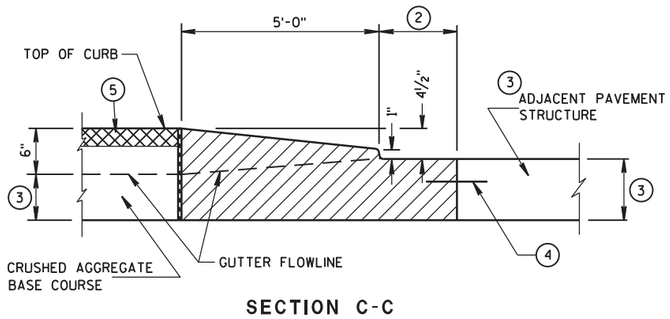
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

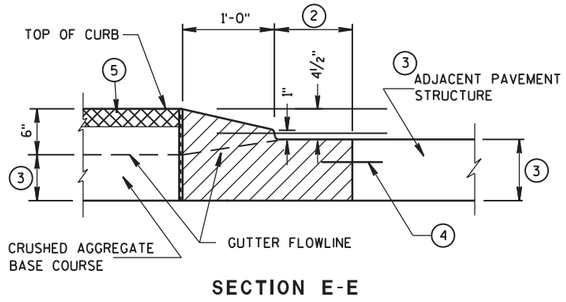




CONCRETE MEDIAN SLOPED NOSE TYPE 1

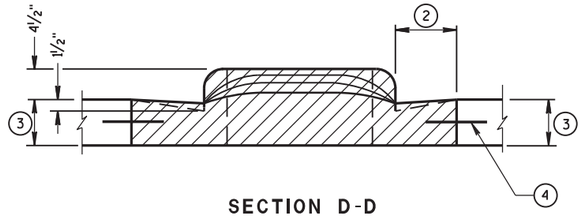


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



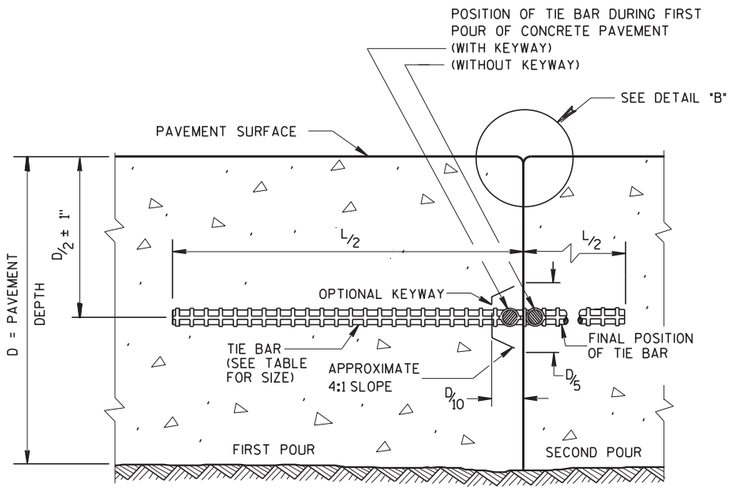
SECTION D-D

CONCRETE MEDIAN NOSE

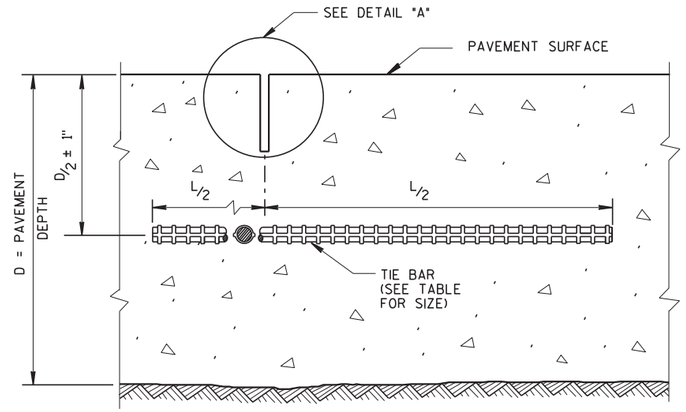
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

6
S.D.D. 11 B 2-2



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

PLAN VIEW

SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

DETAIL "A"

DETAIL "B"

DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp — PAVEMENT SUPE
FHWA

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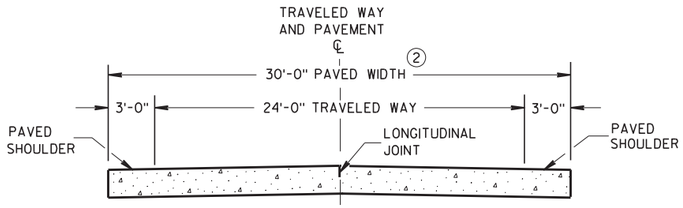
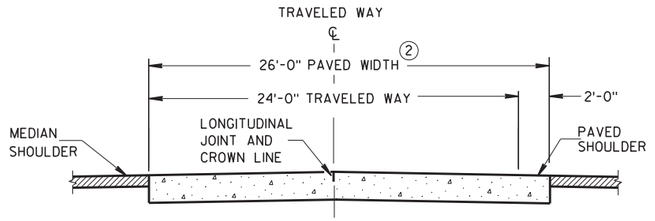
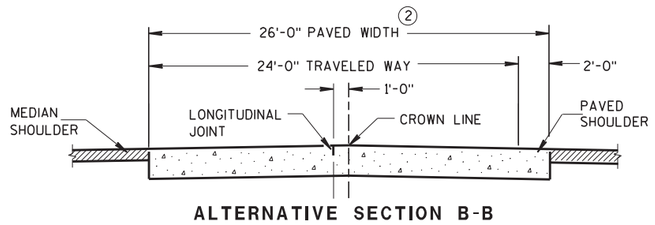
S.D.D. 13 C 1-19



SECTION A-A ①
TWO-LANE TWO-WAY HIGHWAY



SECTION B-B



ALTERNATIVE SECTION B-B
①
DIVIDED HIGHWAY

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

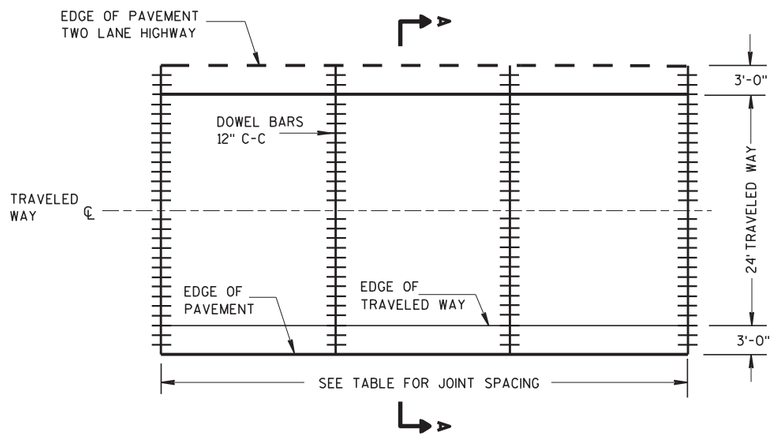
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

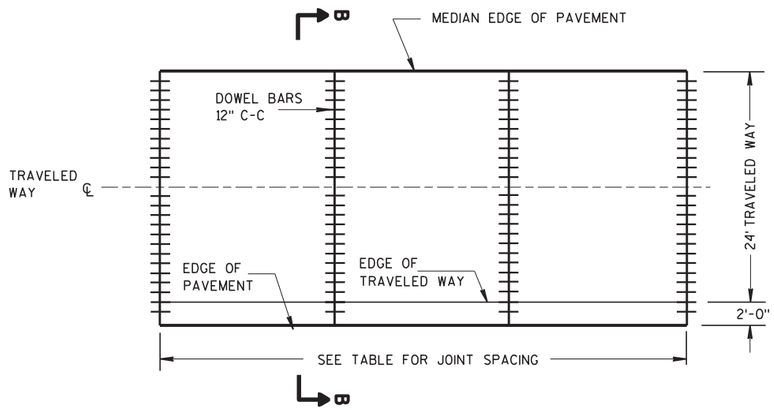
② MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED PAVED SHOULDER AS CONCRETE PAVEMENT.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



CONTRACTION JOINT LAYOUT
FOR TWO-LANE TWO-WAY HIGHWAY



CONTRACTION JOINT LAYOUT
FOR DIVIDED HIGHWAY

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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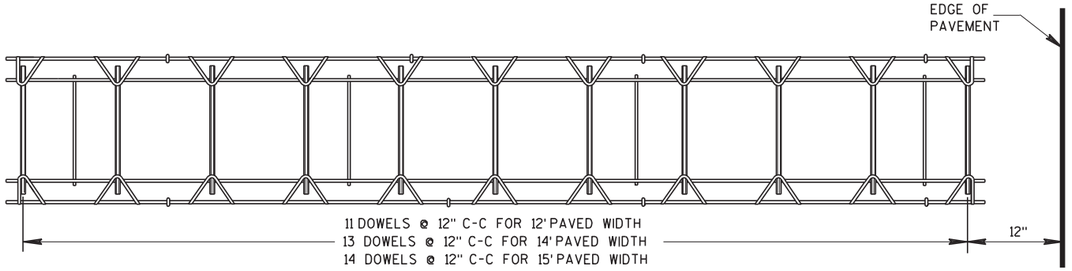
S.D.D. 13 C 11-12a

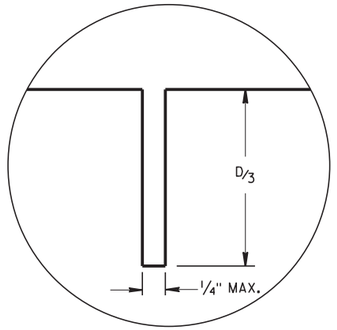


PLAN VIEW

SIDE VIEW

(NORMAL TO CENTERLINE)

CONTRACTION JOINT DOWEL ASSEMBLY ①



JOINT DETAIL

GENERAL NOTES

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

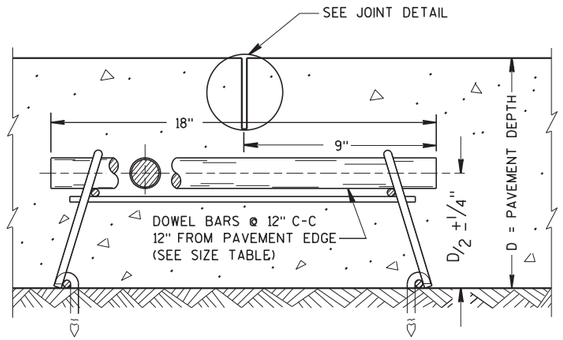
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

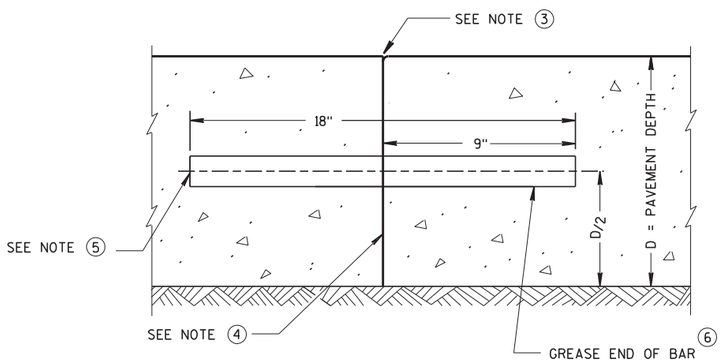
⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

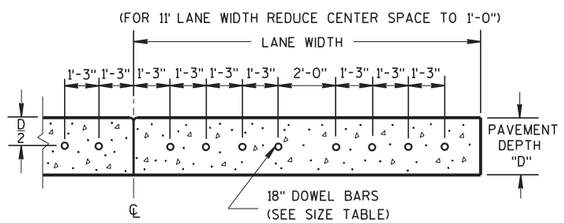
⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



DOWELED CONTRACTION JOINT



TRANSVERSE CONSTRUCTION JOINT



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUP 122
FHWA

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S.D.D. 13 C 11-12b

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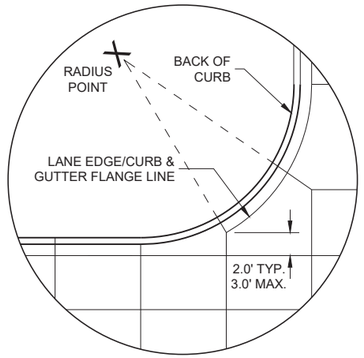
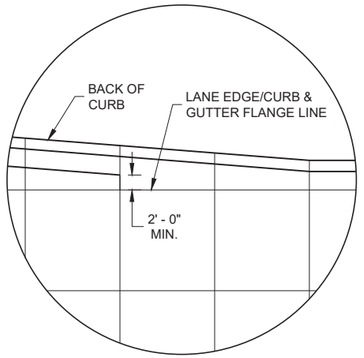
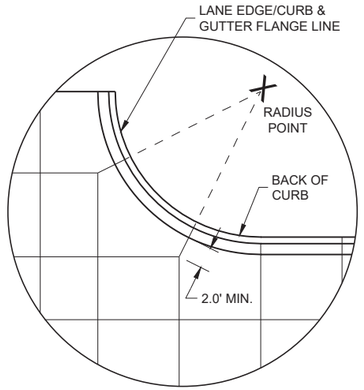
S.D.D. 13 C 11-12b



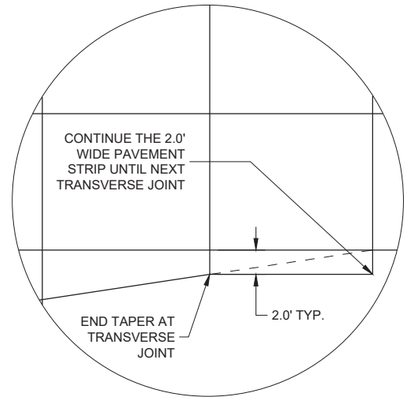
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

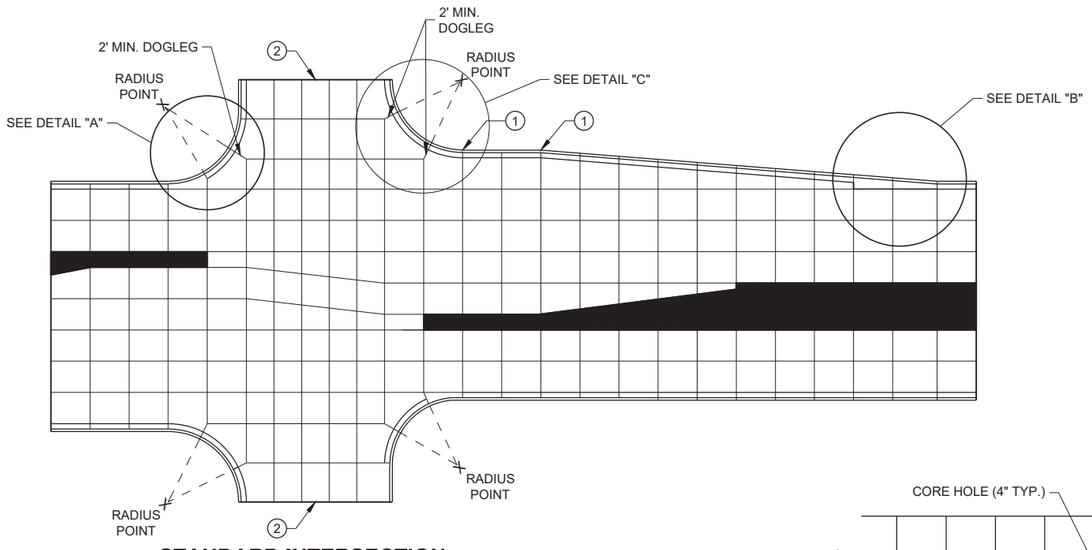
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.

(2) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.

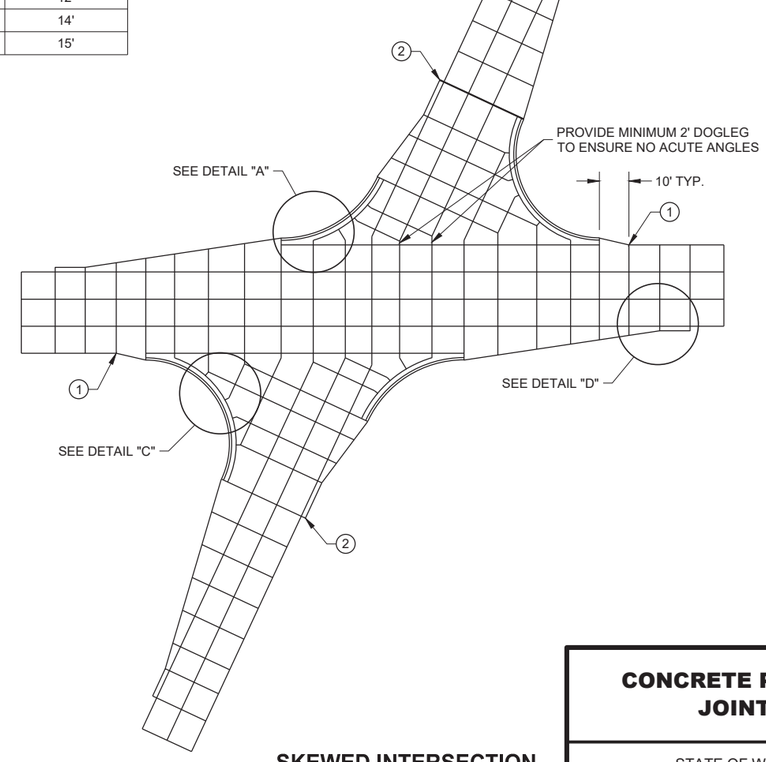
(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



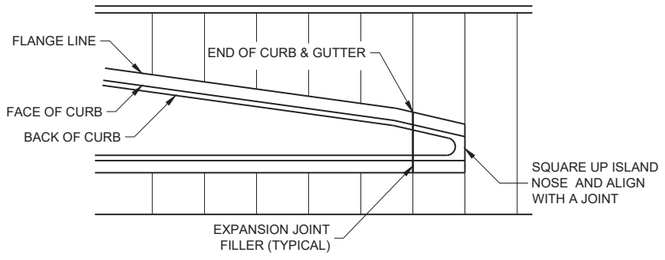
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

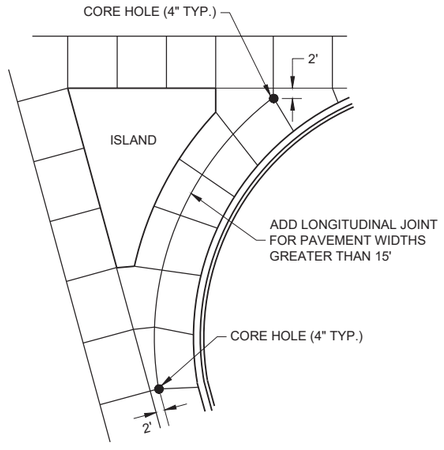
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07a

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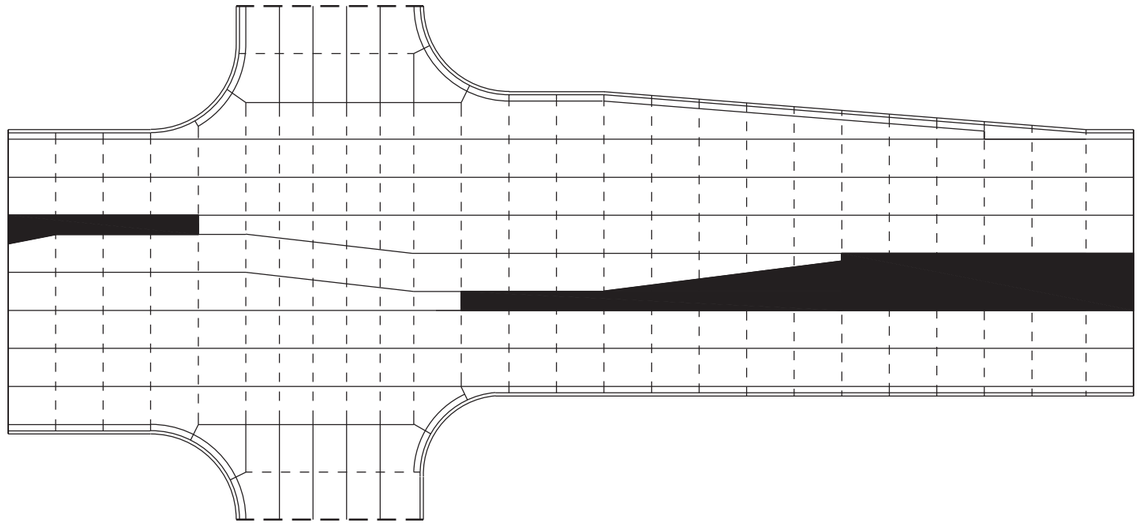
SDD 13C18 - 07a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

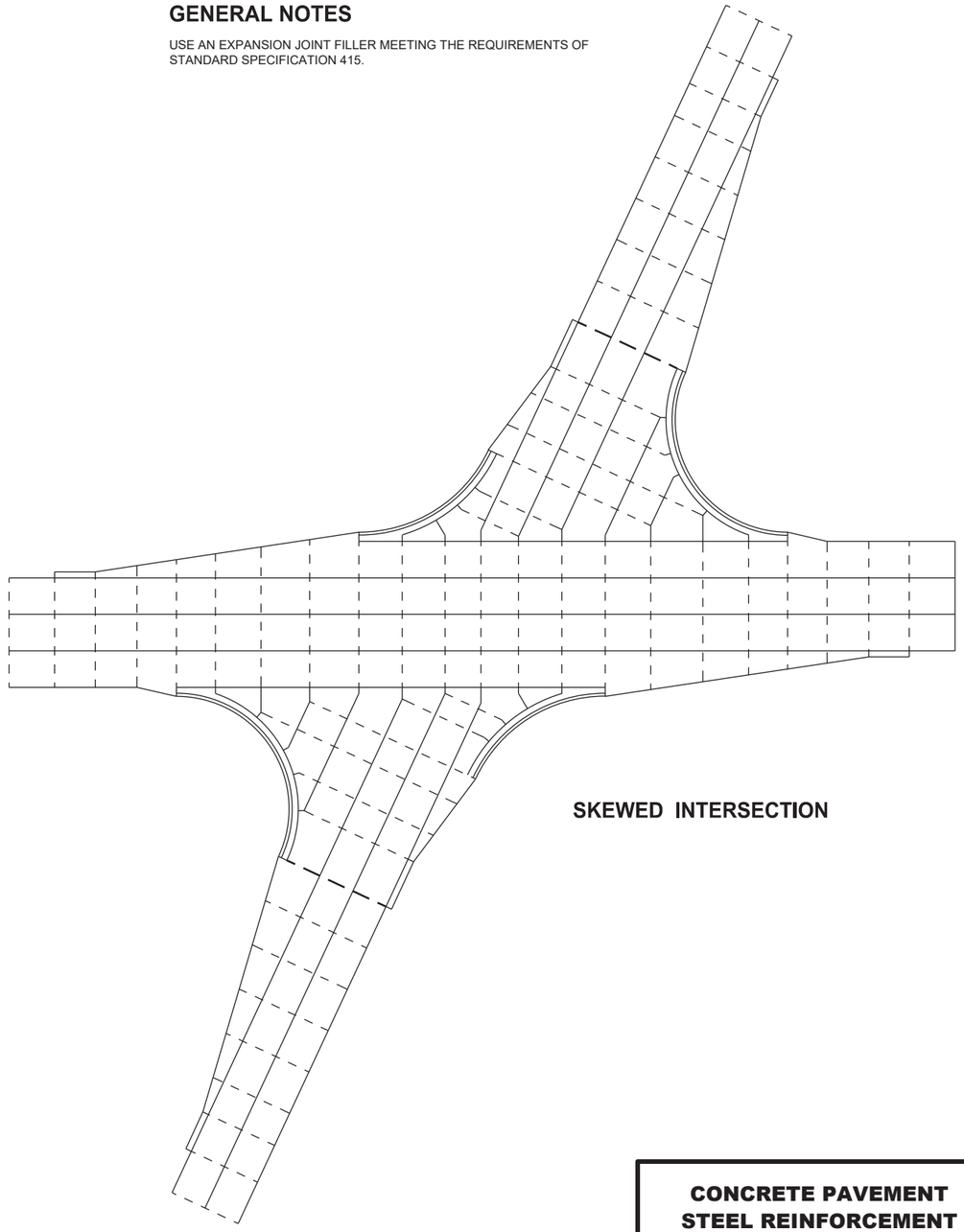
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

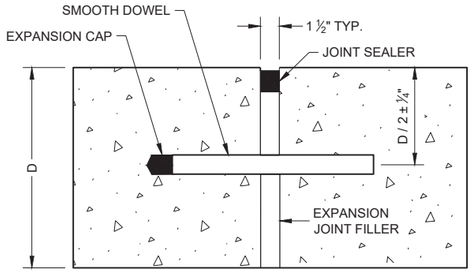
SDD 13C18 - 07b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

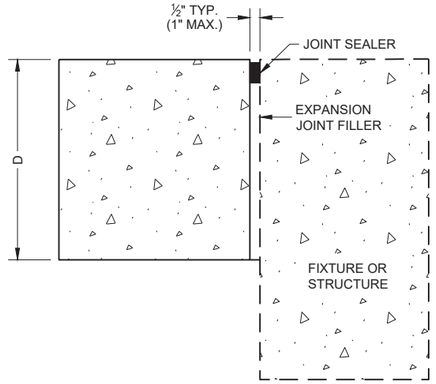
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

SDD 13C18 - 07b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

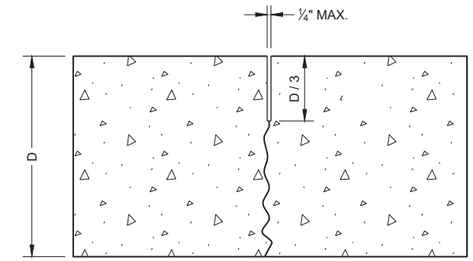
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

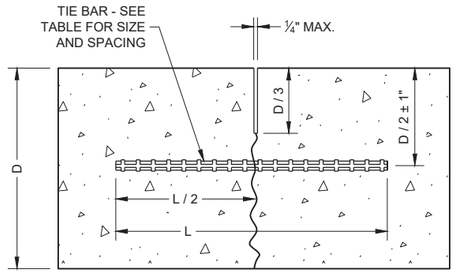
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

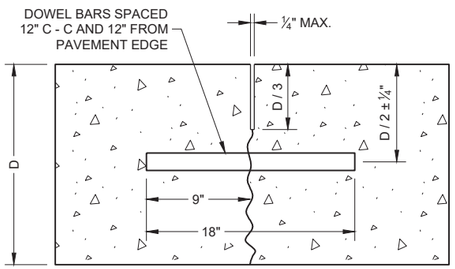
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

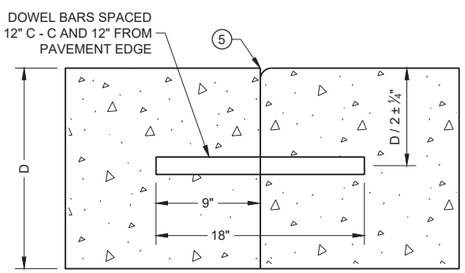


TIED LONGITUDINAL

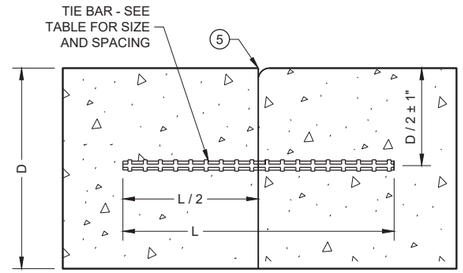


DOWELED TRANSVERSE

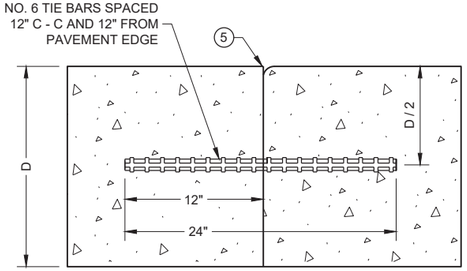
CONTRACTION JOINTS (2)



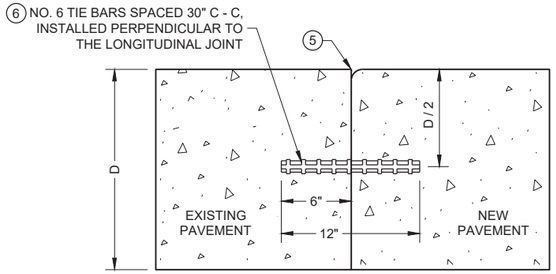
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

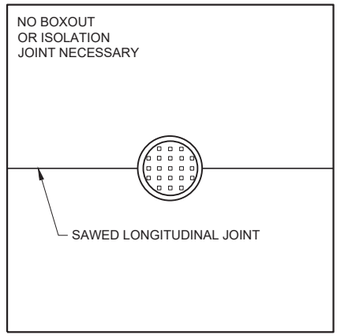
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

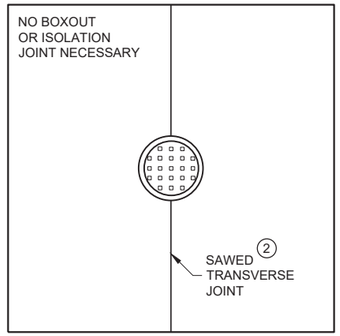
SDD 13C18 - 07c

6

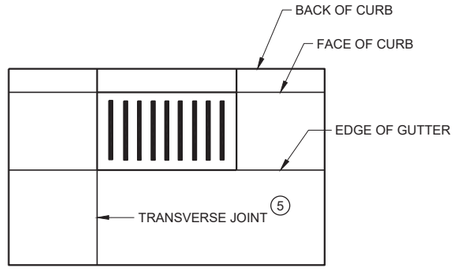
SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



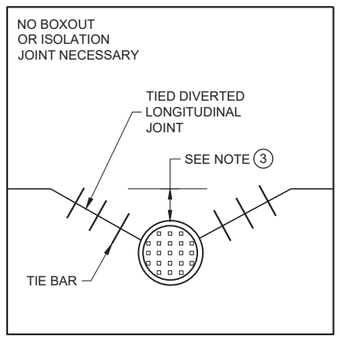
MANHOLE WITH TRANSVERSE JOINT



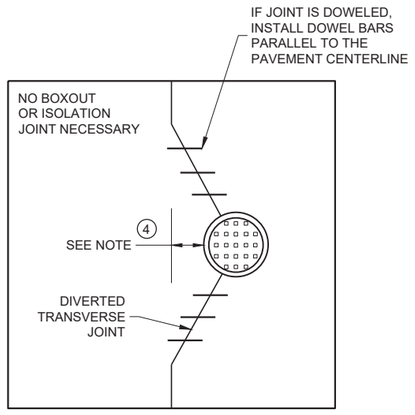
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

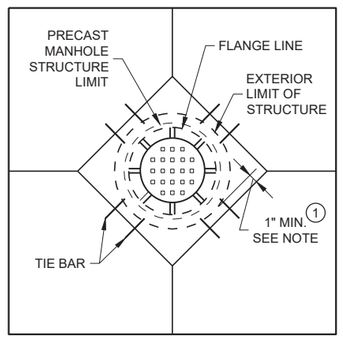
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISOR

FHWA

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SDD13C18 - 07d

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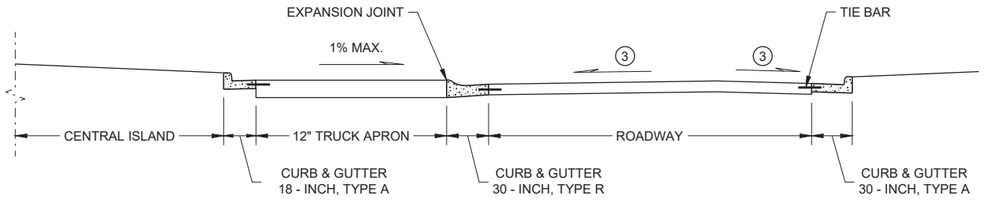
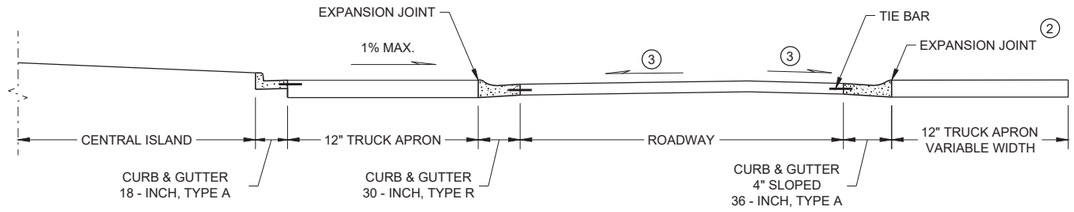
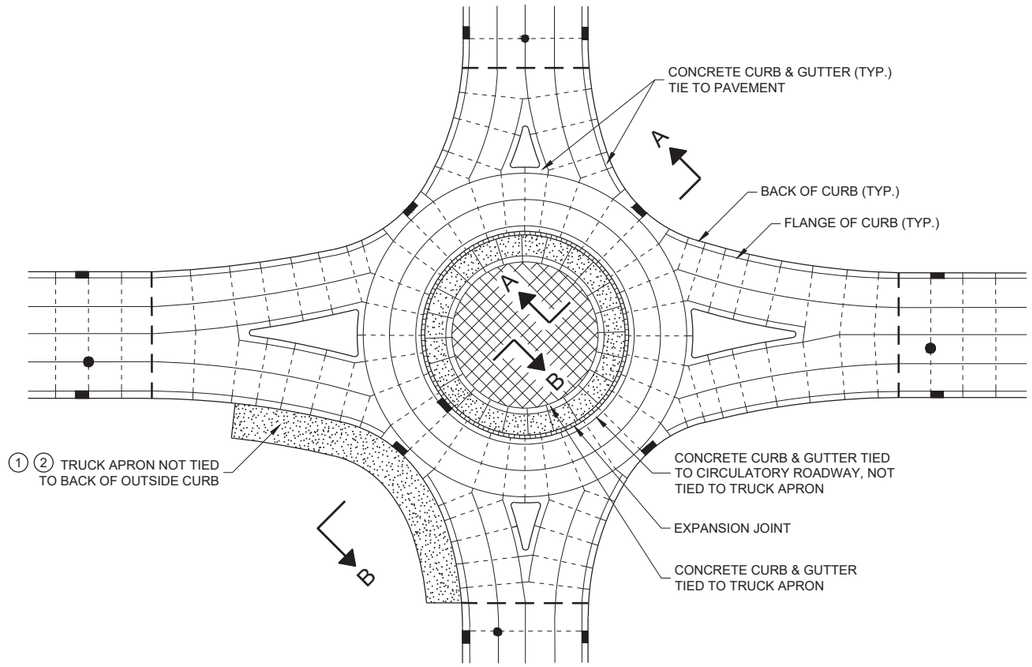
SDD13C18 - 07d



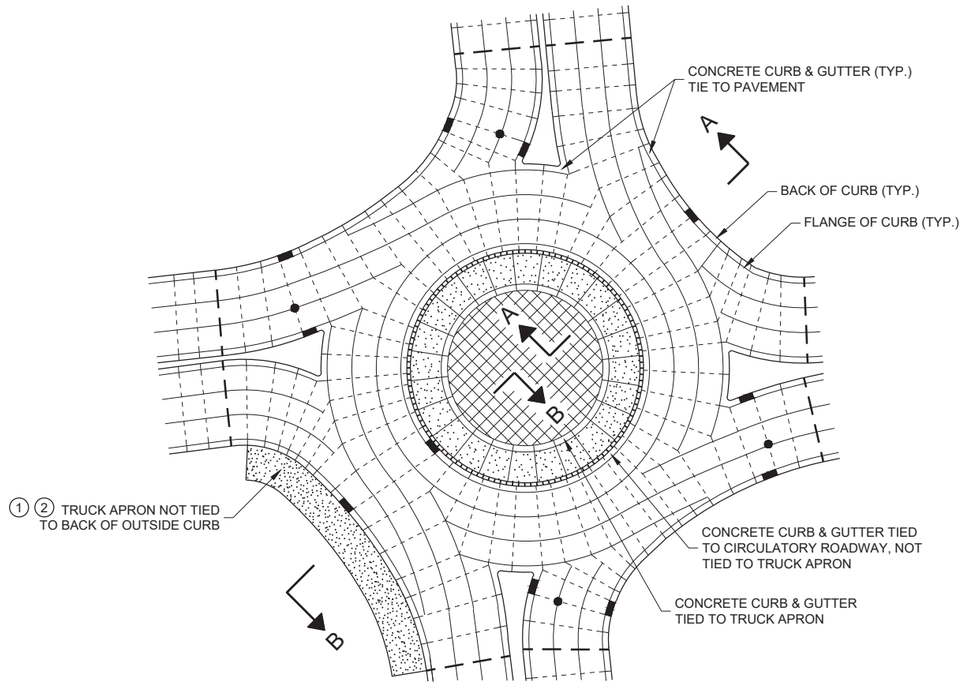
SECTION A - A



SECTION B - B



ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS



PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

GENERAL NOTES

MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18 - SHEET "a"

USE EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.

(1) DESIGNER DETERMINES SIZE AND LOCATION(S) OF TRUCK APRON TO ACCOMODATE TRACKING OF OVERSIZE / OVERWEIGHT VEHICLES.

(2) TIE THE OUTSIDE TRUCK APRON TO THE BACK SIDE OF CURB ONLY WHEN ENTIRE TRUCK APRON IS LESS THAN 3 FEET.

(3) CONFORM TO PLAN CONSTRUCTION DETAILS FOR CIRCULATORY ROADWAY CROSS SLOPE.

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES

CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

FHWA

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SDD 13C18 - 07e

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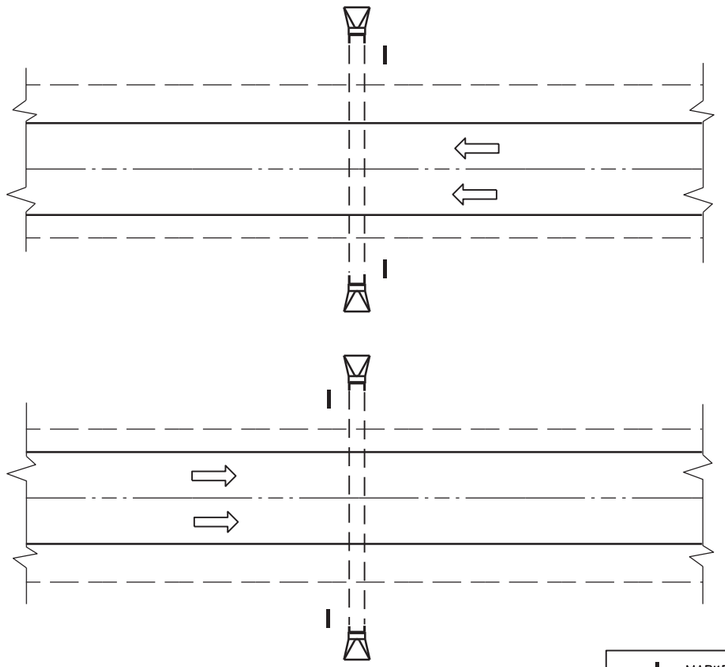
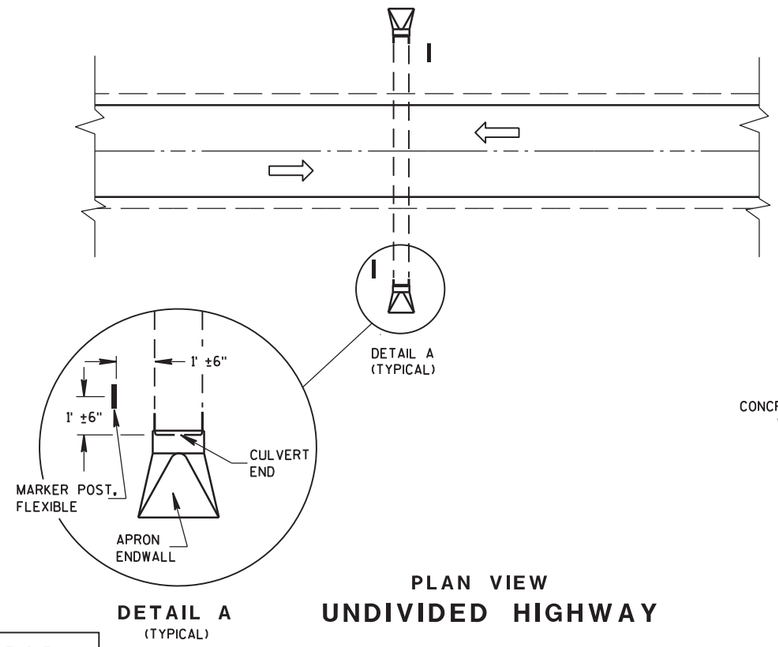
SDD 13C18 - 07e



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

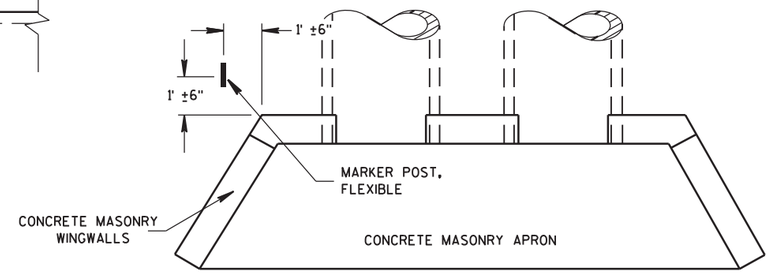
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

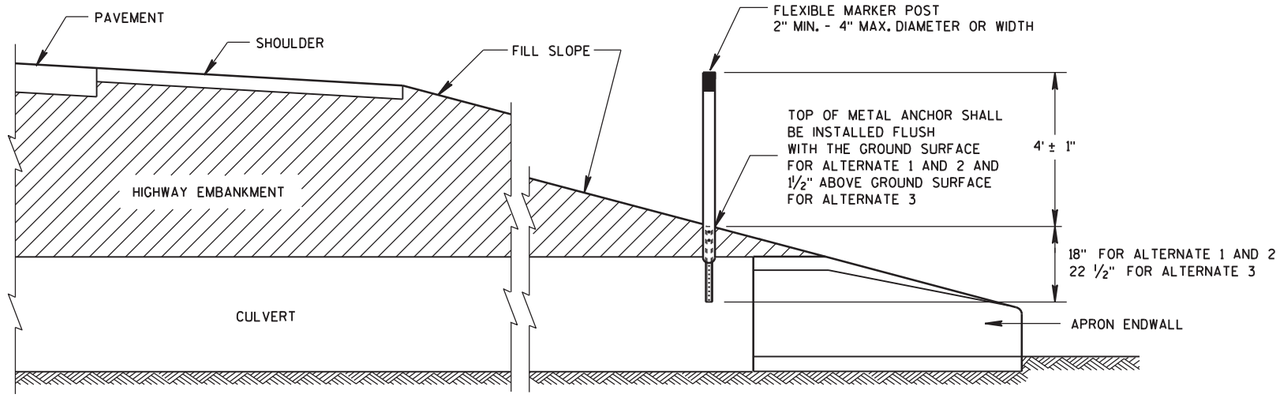
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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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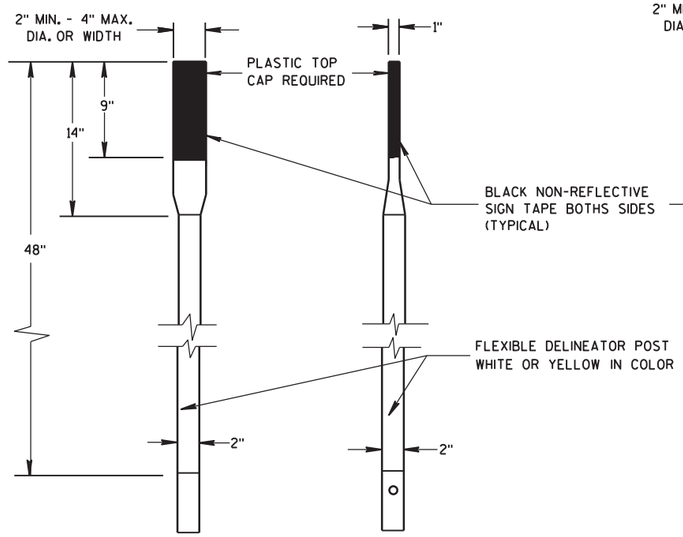
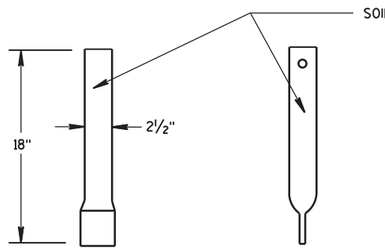
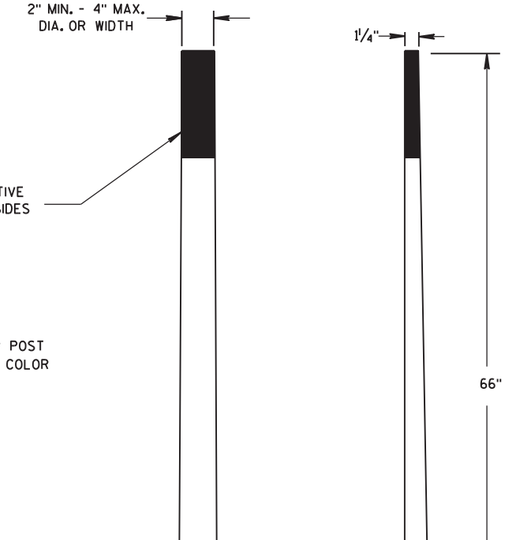
S.D.D. 15 A 3-2a





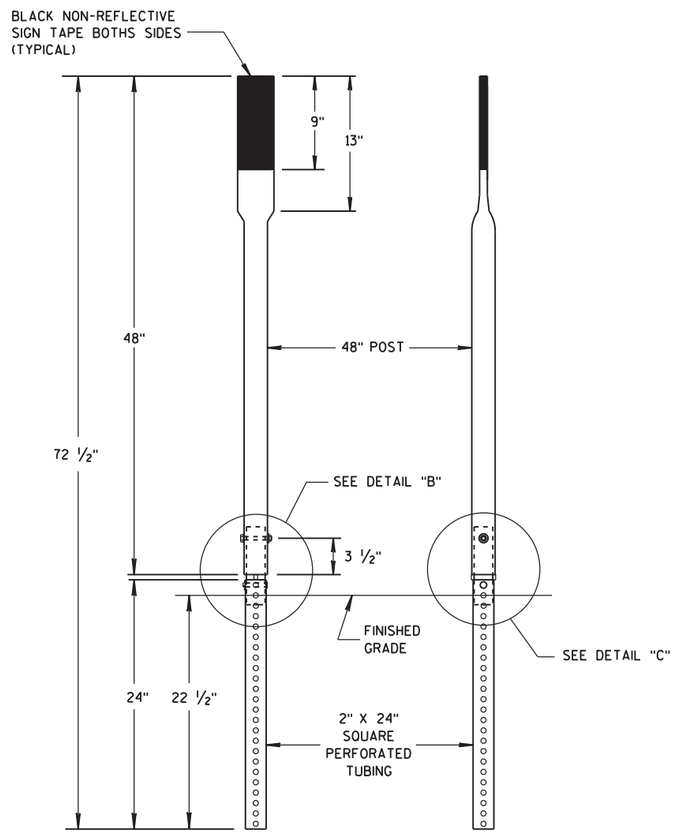
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

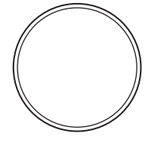
ALTERNATE 2



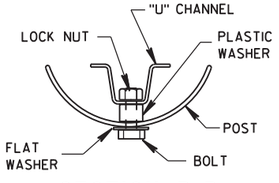
FRONT VIEW SIDE VIEW

ALTERNATE 3

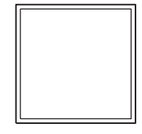
FLEXIBLE MARKER POSTS



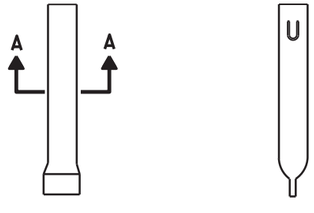
SECTION A-A



SECTION B-B

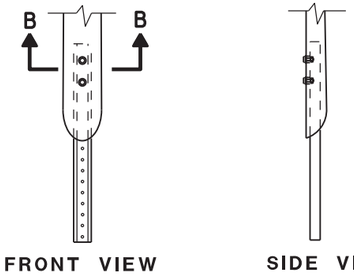


SECTION C-C



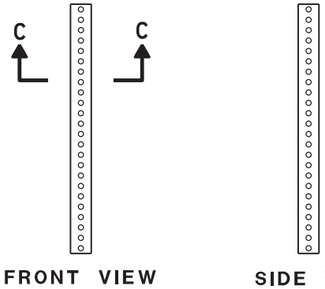
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

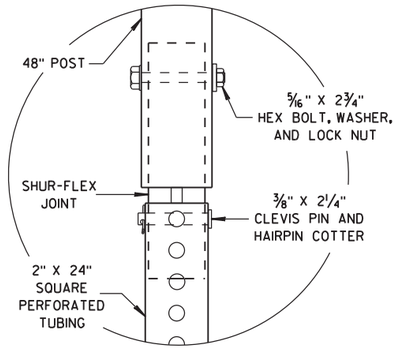
ALTERNATE 2



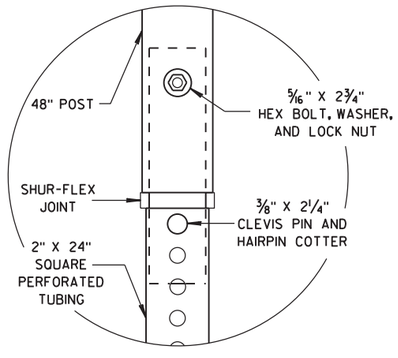
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

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S.D.D. 15 A 3-2b

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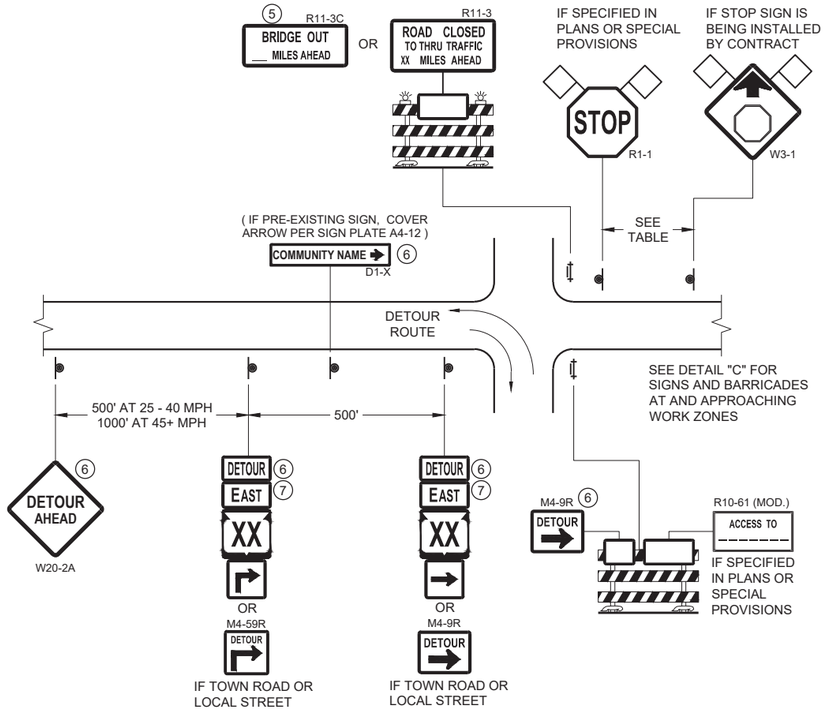
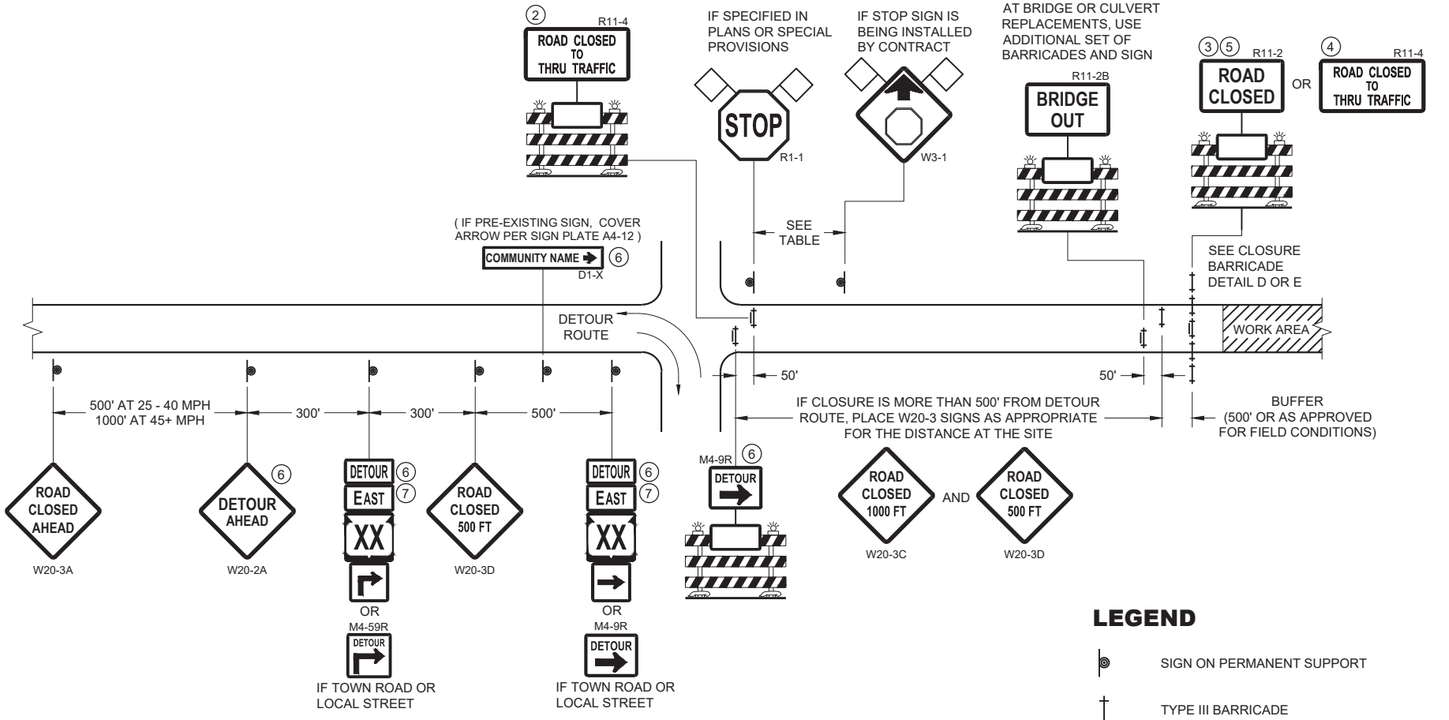
S.D.D. 15 A 3-2b



DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ □ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ □ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

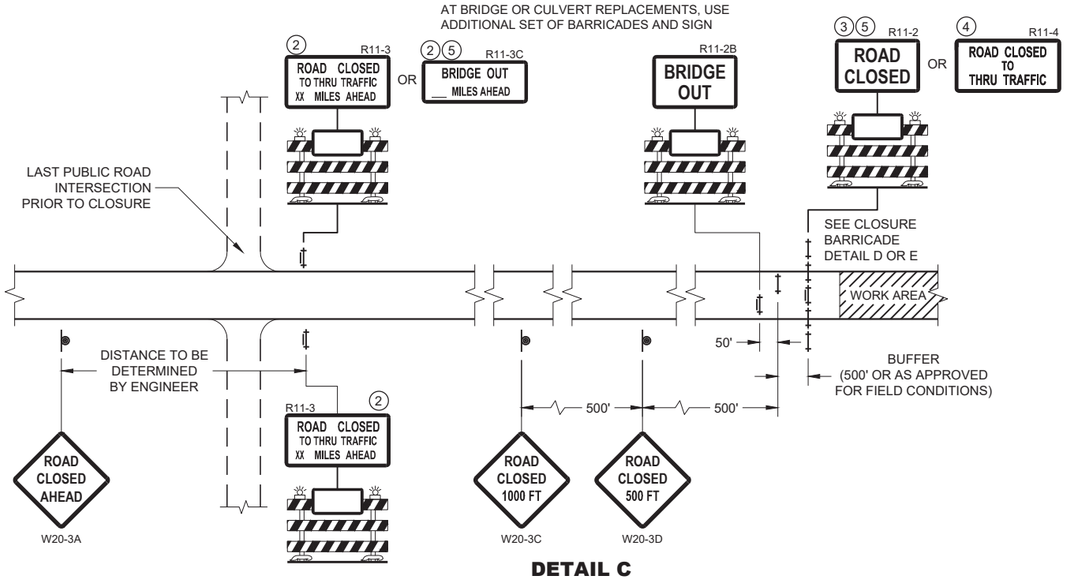
SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

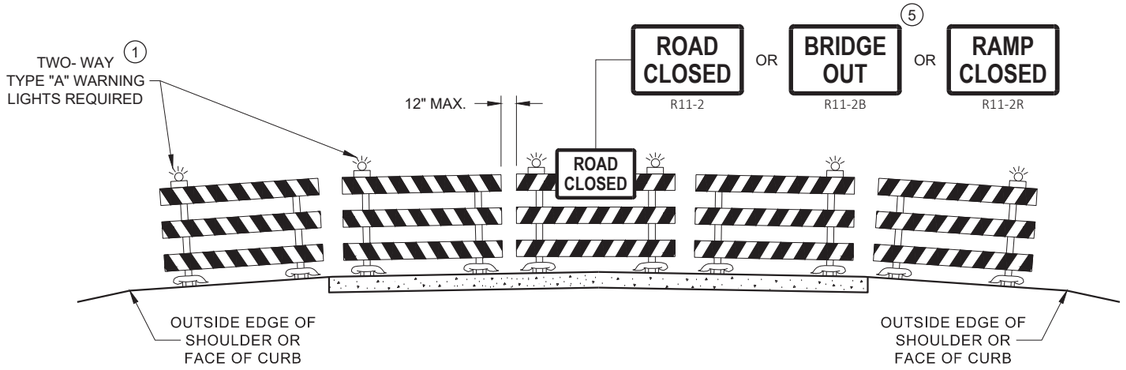
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

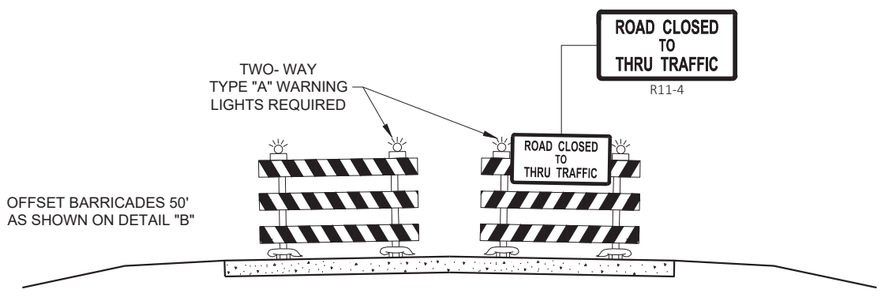
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C02 - 08b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

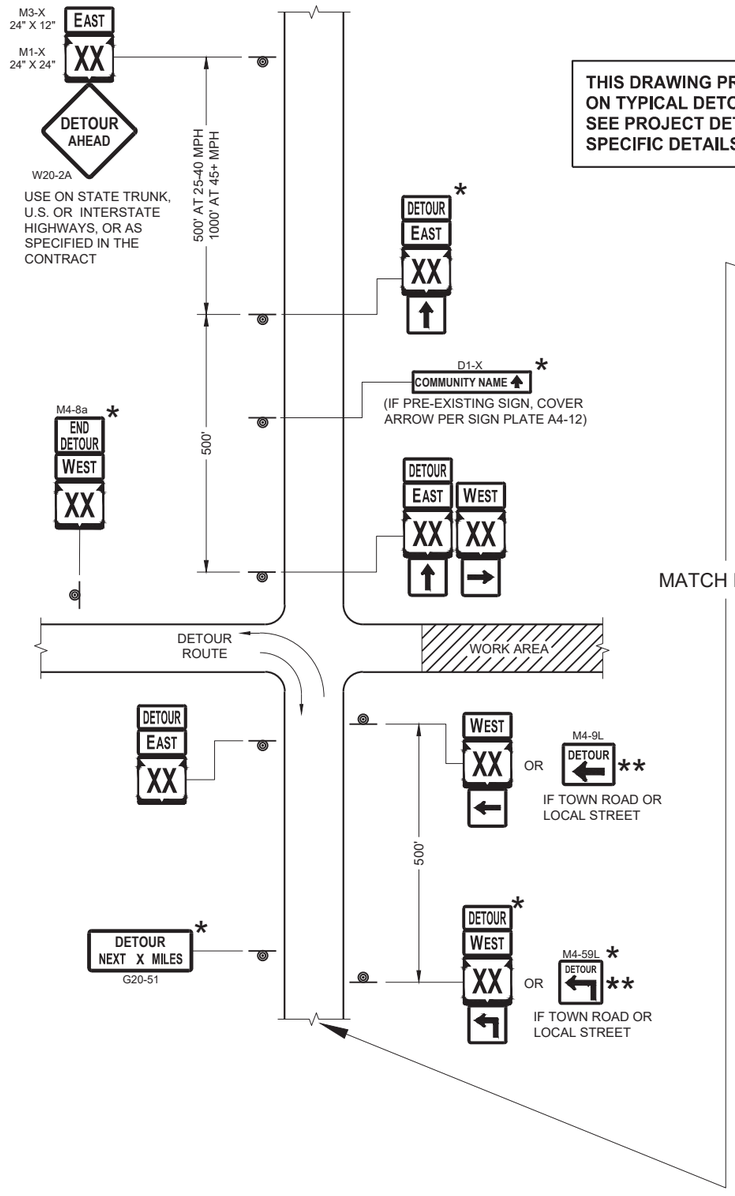
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

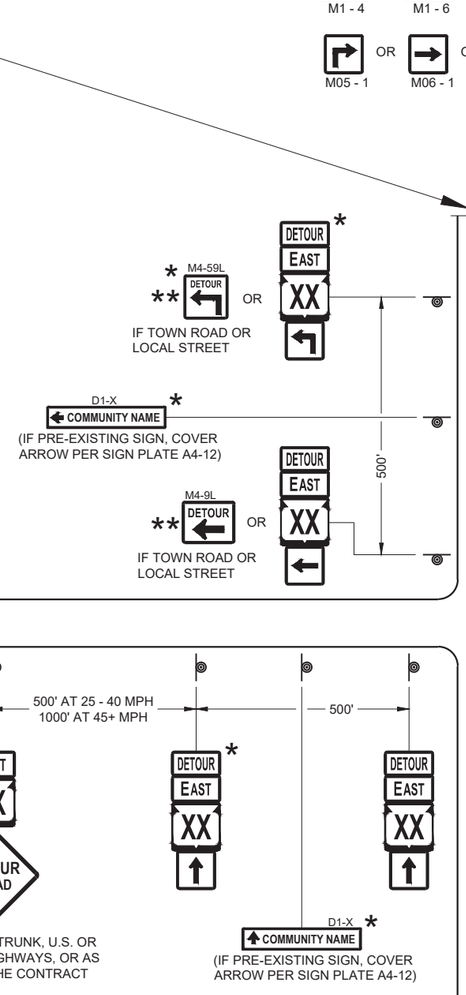
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

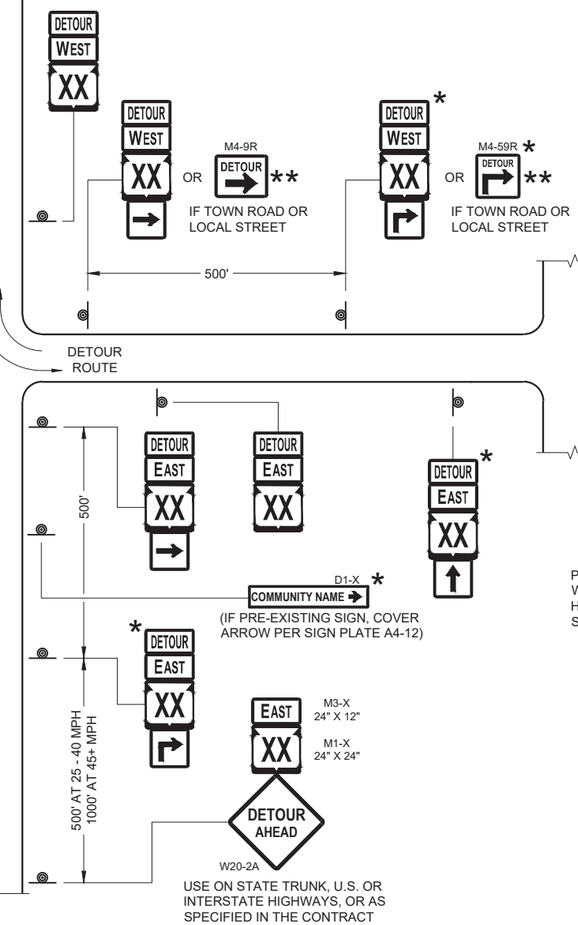
* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



MATCH POINT





SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15C02 - 08c

6

SDD 15C02 - 08c

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

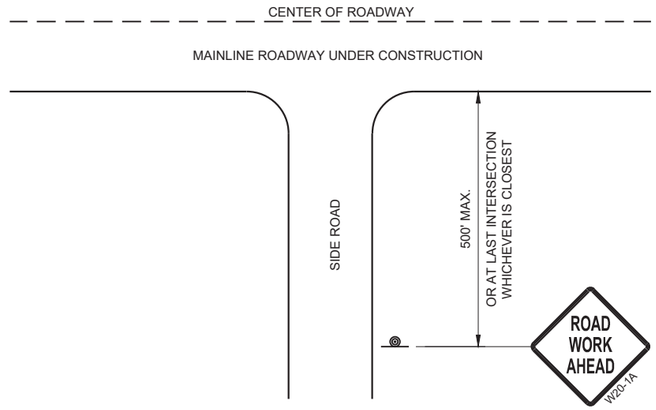
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



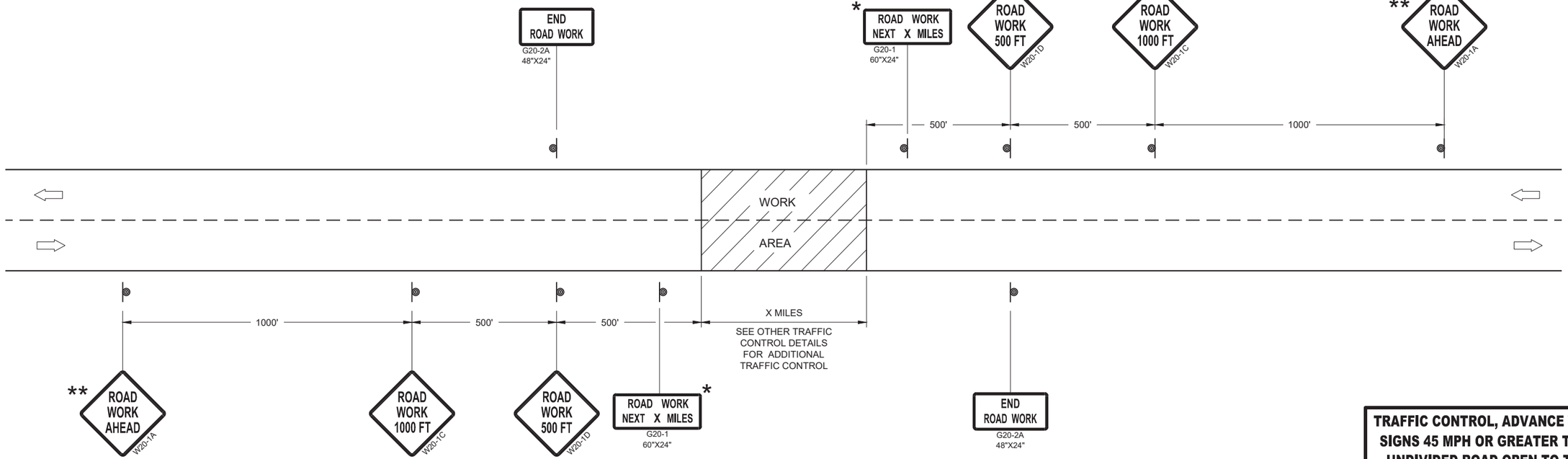
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C04 - 05

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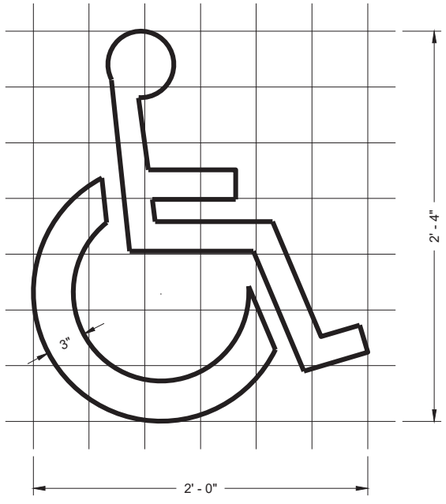
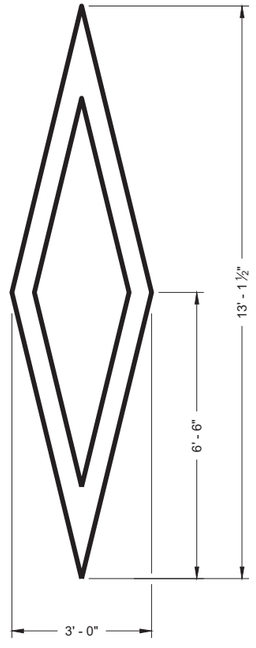
SDD 15C04 - 05

GENERAL NOTES

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



HANDICAP SYMBOL



PREFERENTIAL LANE SYMBOL

6

6

SDD 15C07 - 15a

SDD15C07 - 15a

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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November 2019
DATE

/S/ Matthew Rauch
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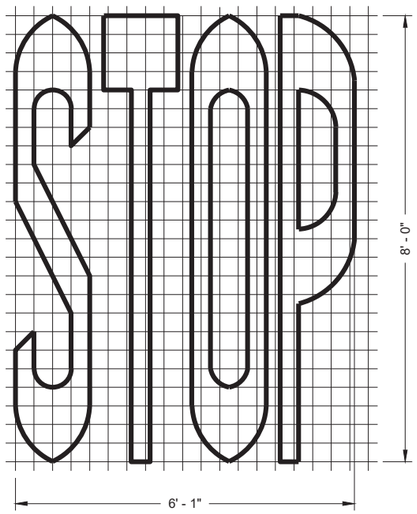
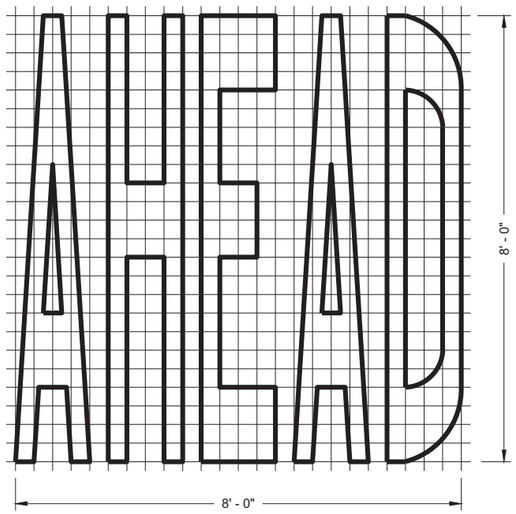
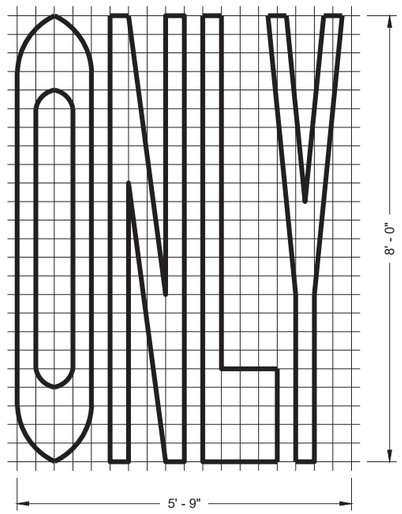
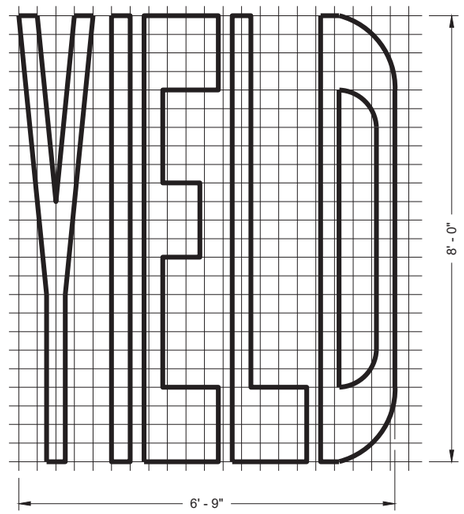
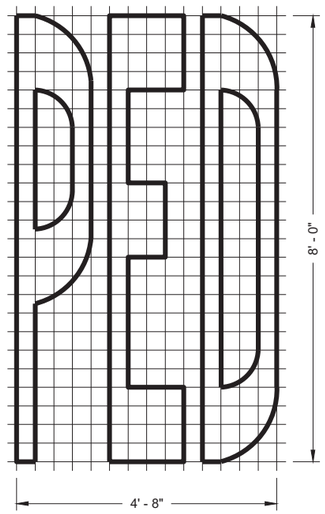
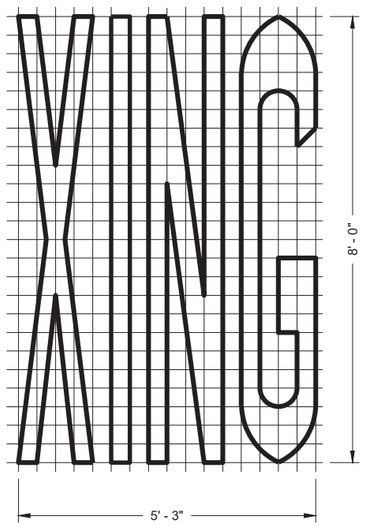


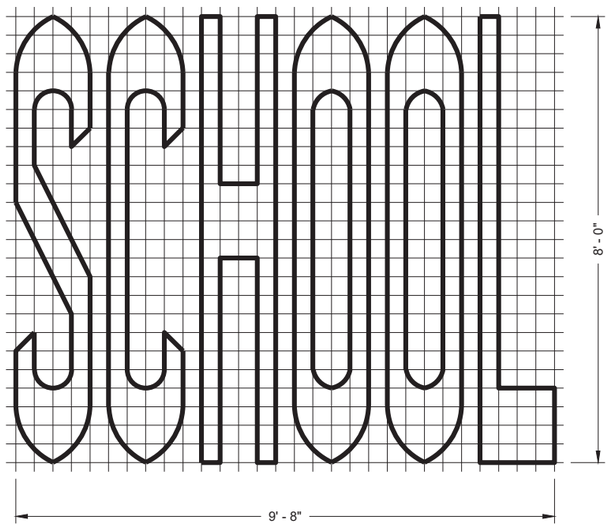




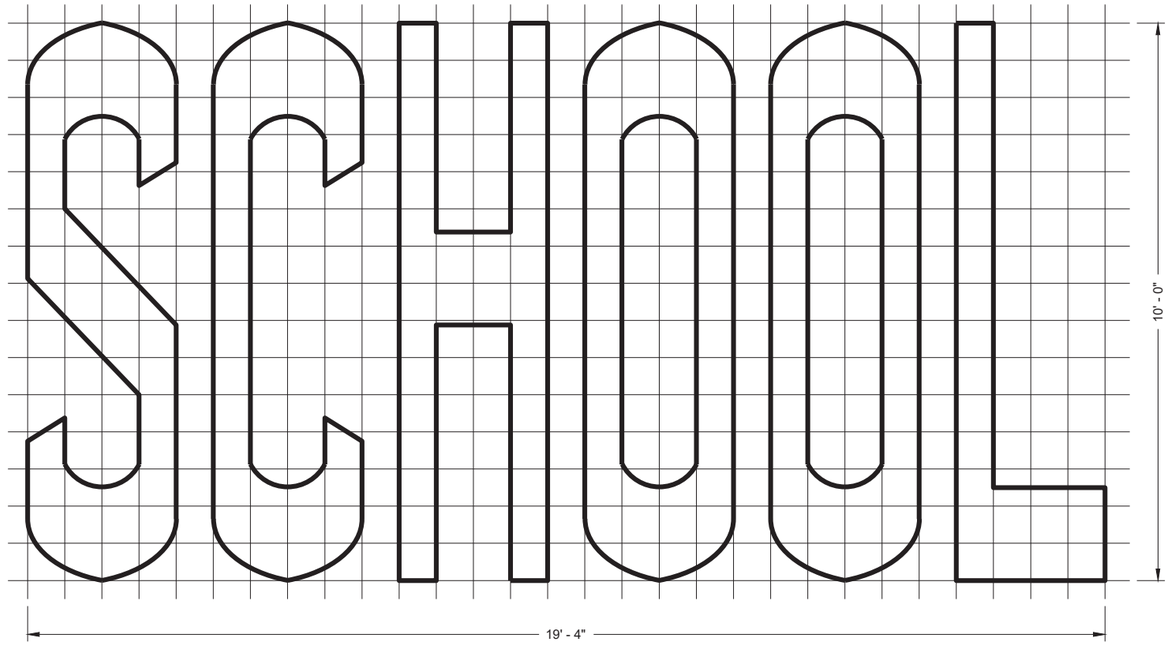








SINGLE LANE



TWO - LANE

GENERAL NOTES

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

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER
FHWA

6

SDD 15C07 - 15b

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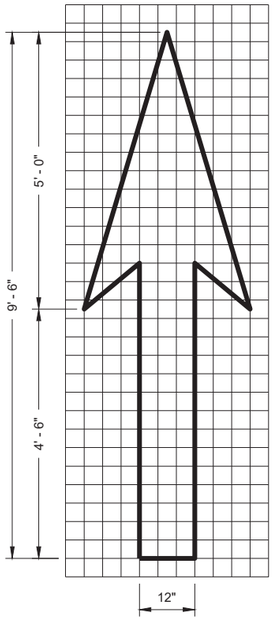
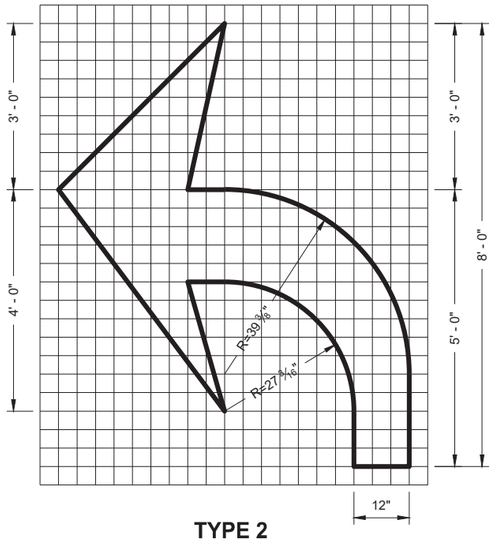
SDD 15C07 - 15b

GENERAL NOTES

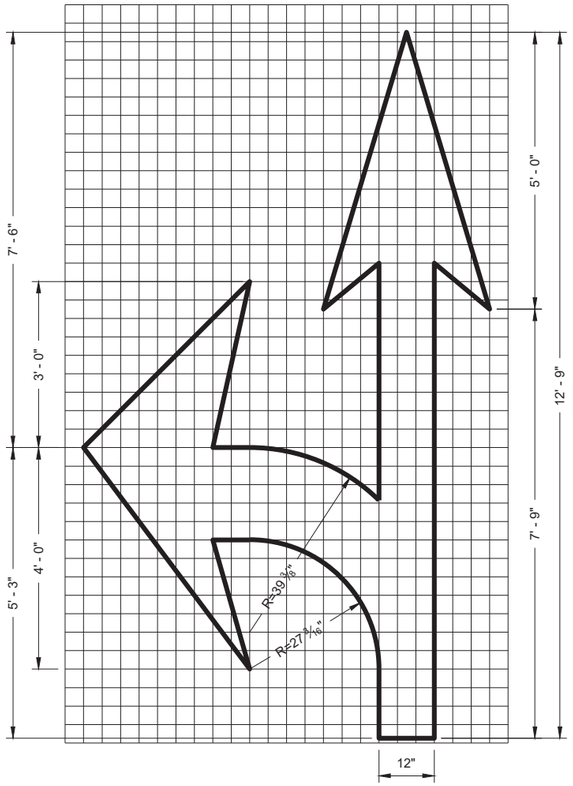
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



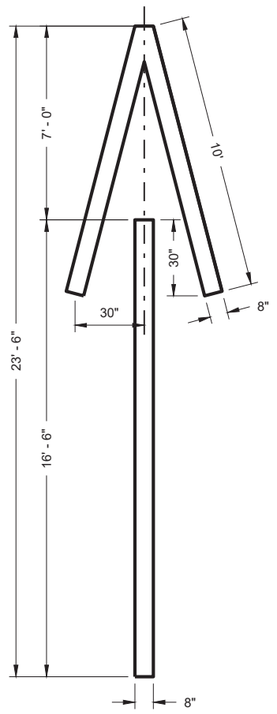
TYPE 1



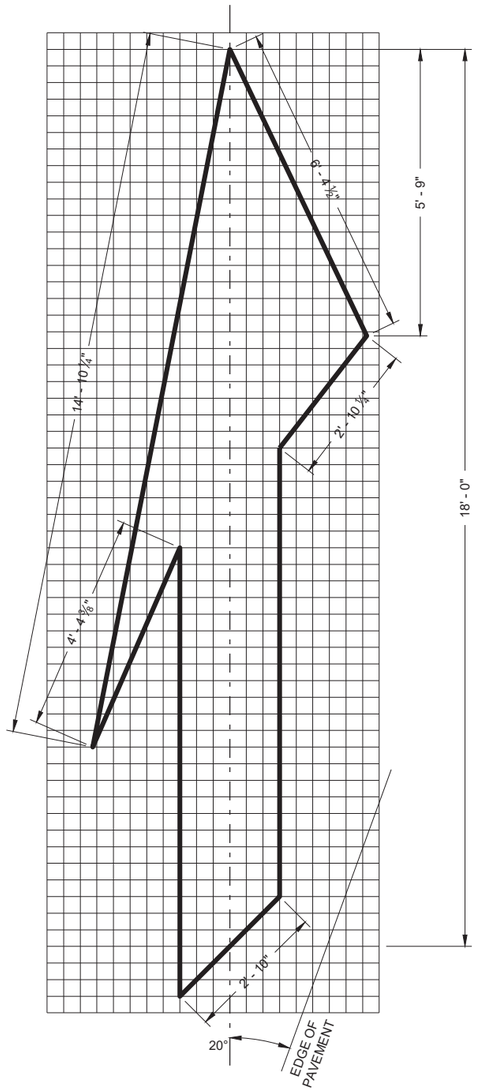
TYPE 2



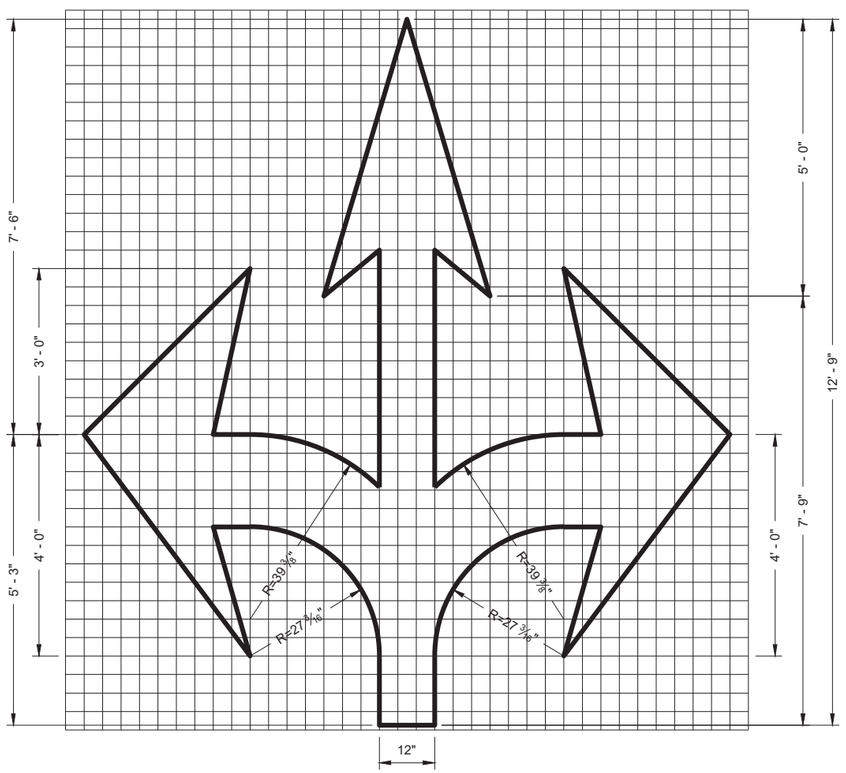
TYPE 3



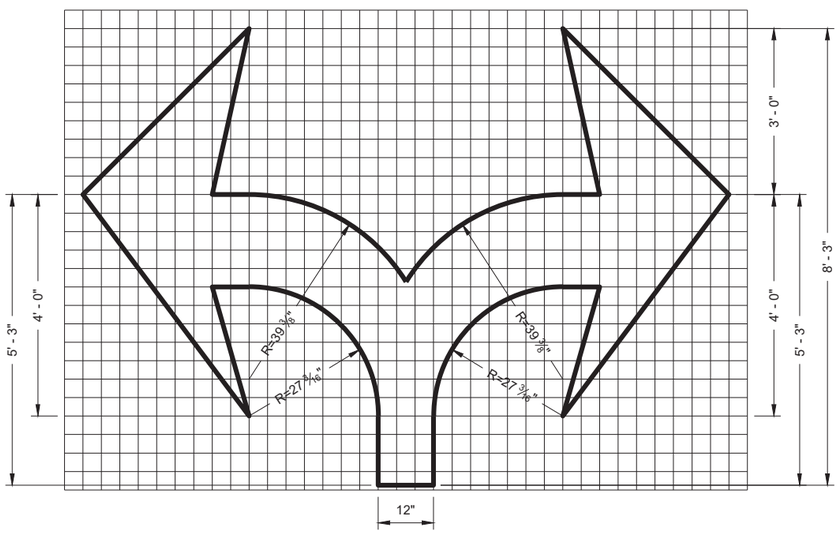
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

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SDD 15C07 - 15c

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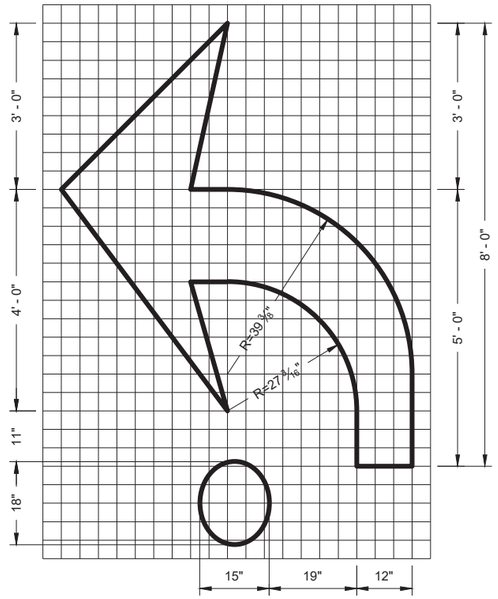
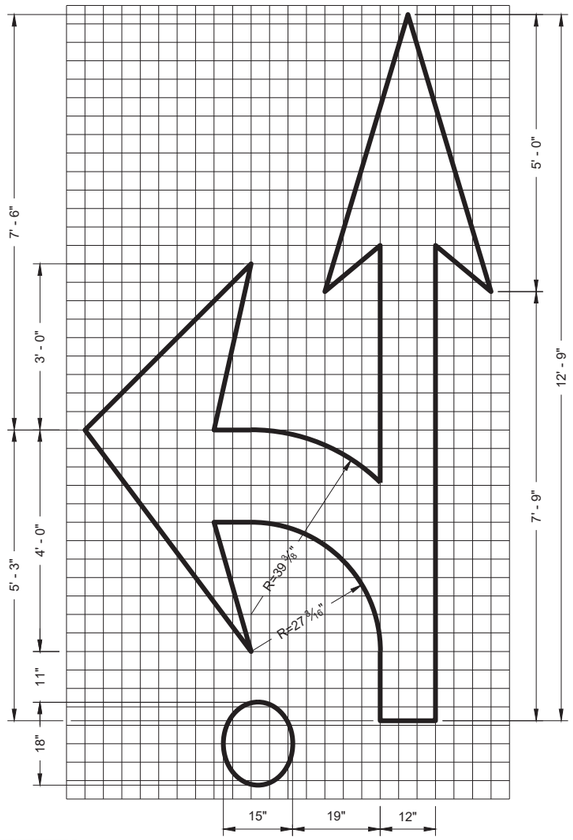
SDD 15C07 - 15c

GENERAL NOTES

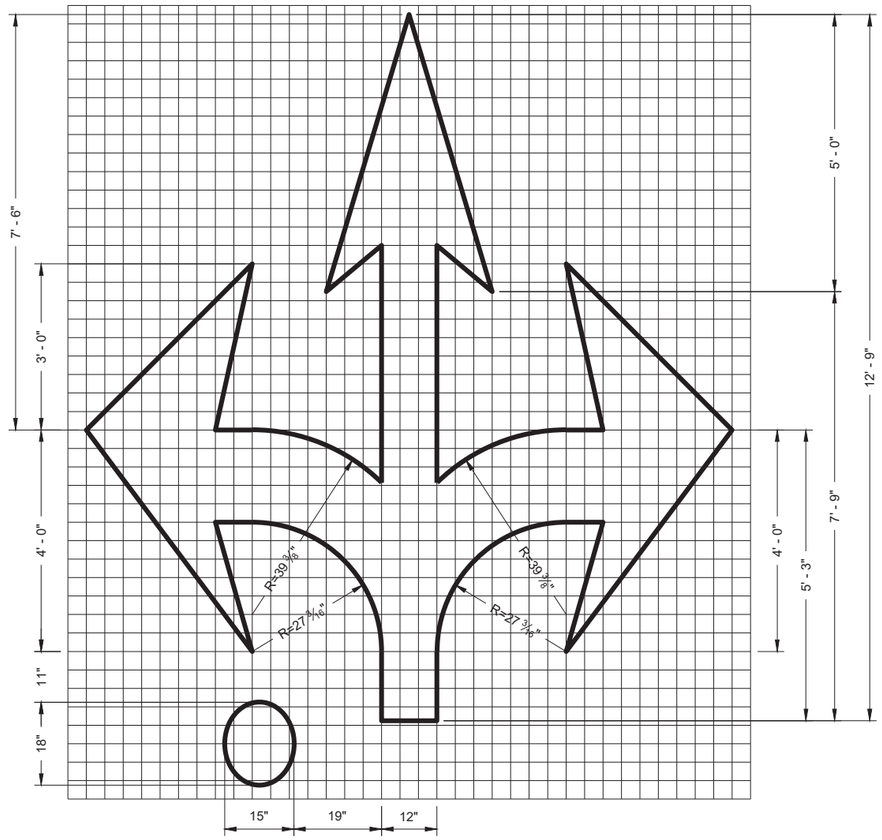
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



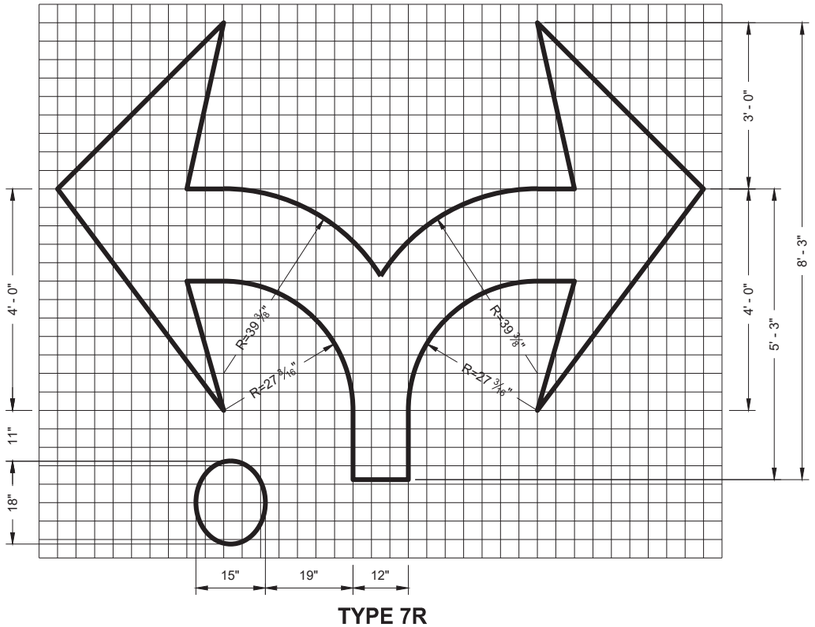
TYPE 2R



TYPE 3R



TYPE 6R



TYPE 7R

ROUNDABOUT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

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SDD 15C07 - 15d

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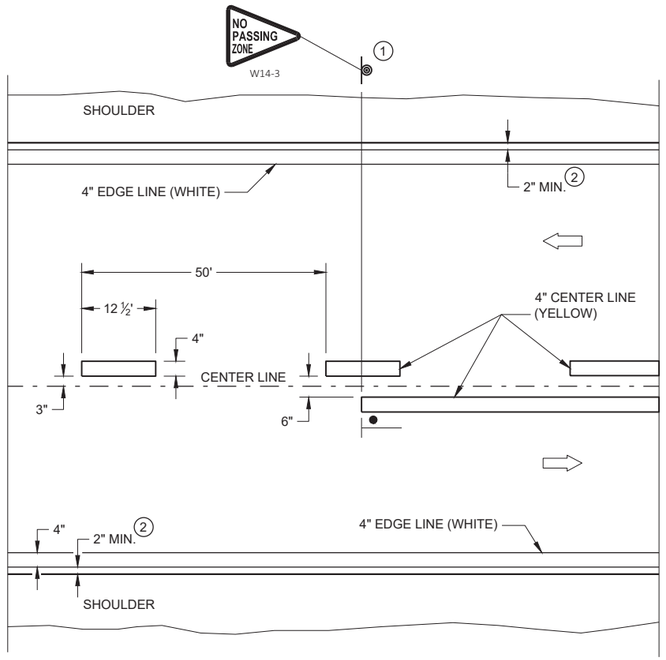
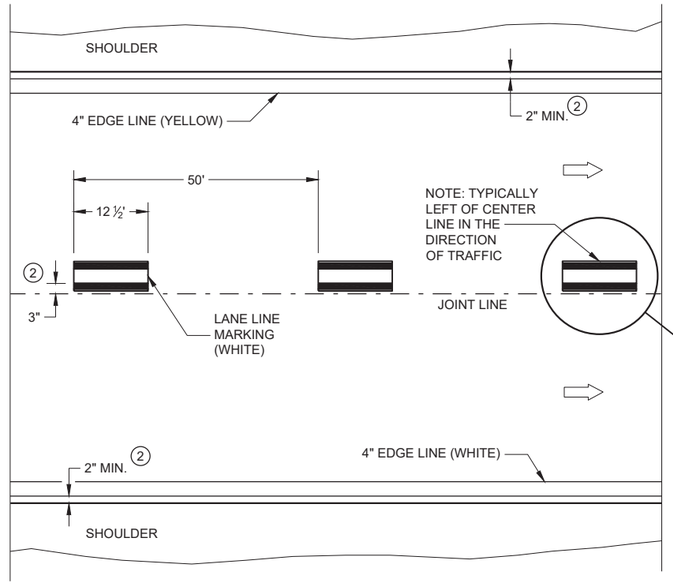
SDD 15C07 - 15d

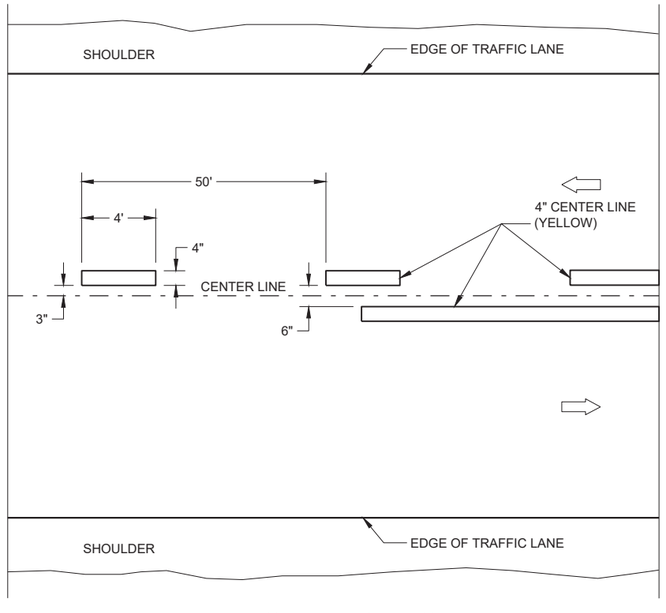


TWO WAY TRAFFIC

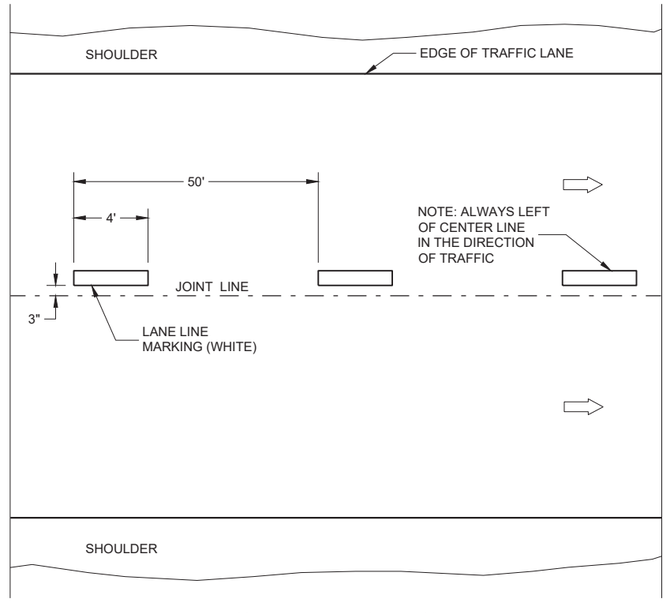


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

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

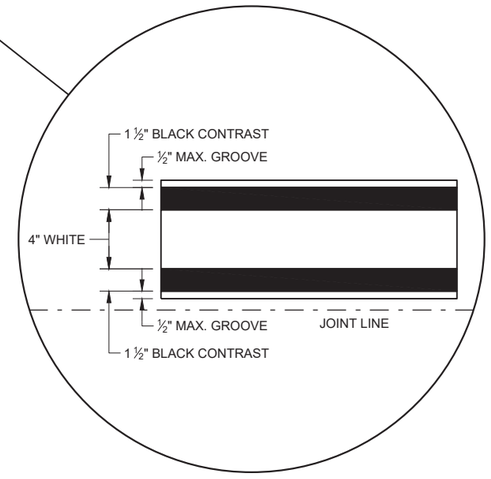
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

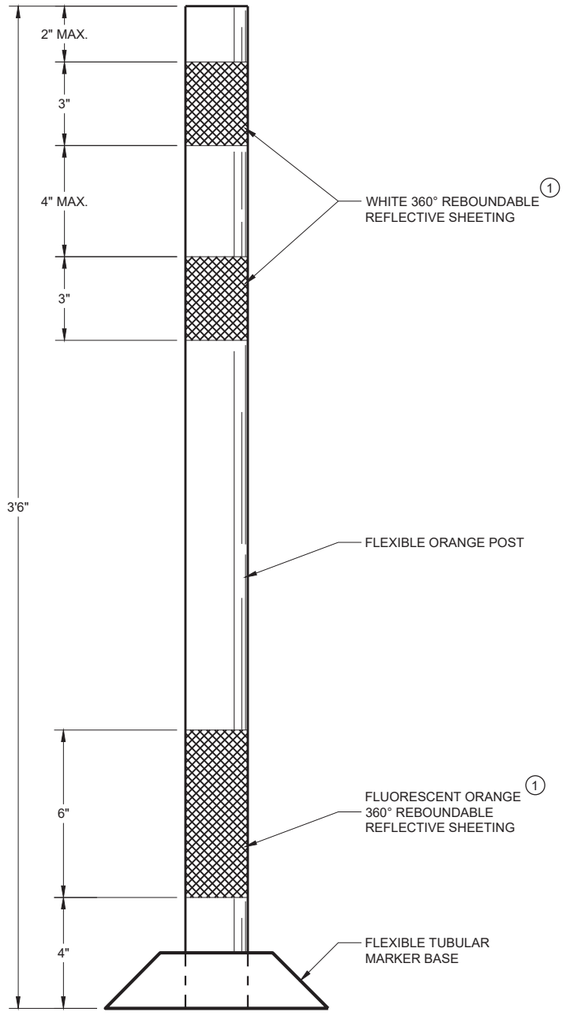
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 — DATE
/S/ Matthew Rauch — STATEWIDE SIGNING AND M ENGINEER

FHWA

SDD 15C08 - 20a

SDD 15C08 - 20a



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

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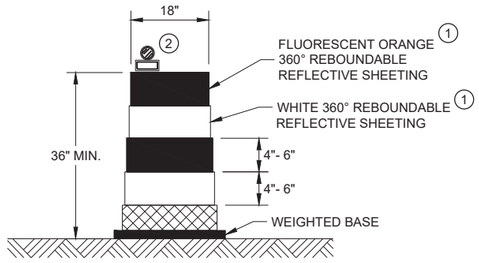
SDD 15C11 - 09a

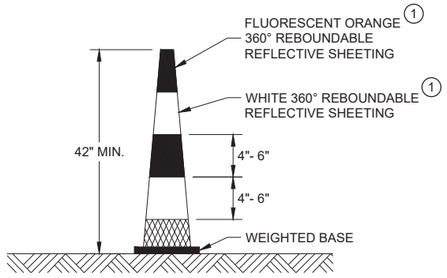
SDD 15C11 - 09a

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

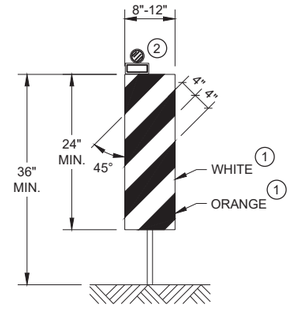


DRUM



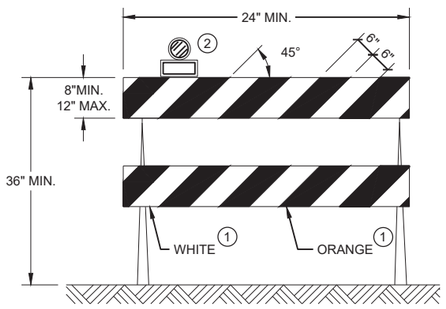
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



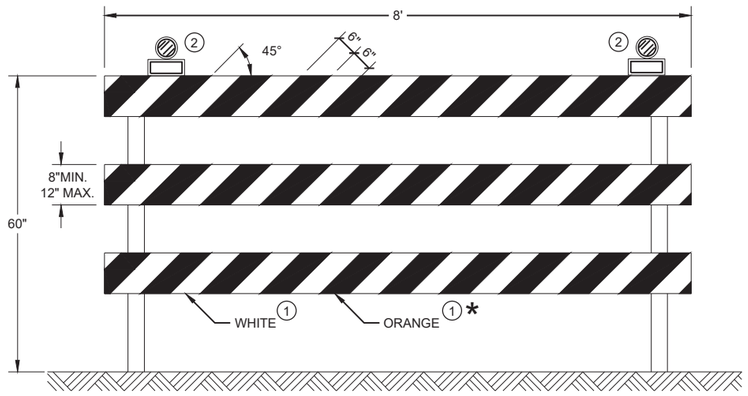
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15C11 - 09b

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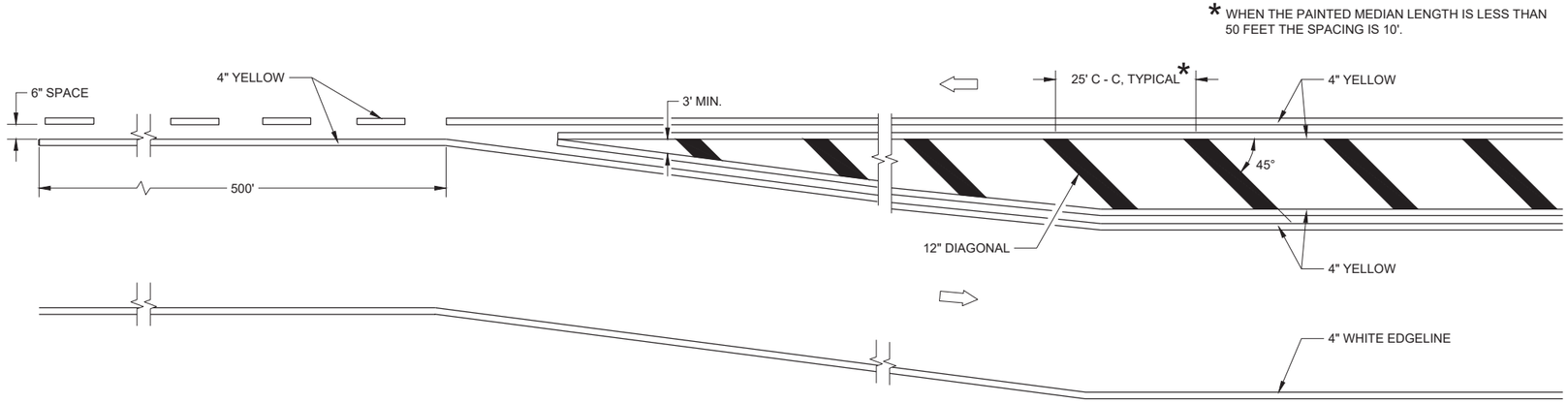
SDD 15C11 - 09b

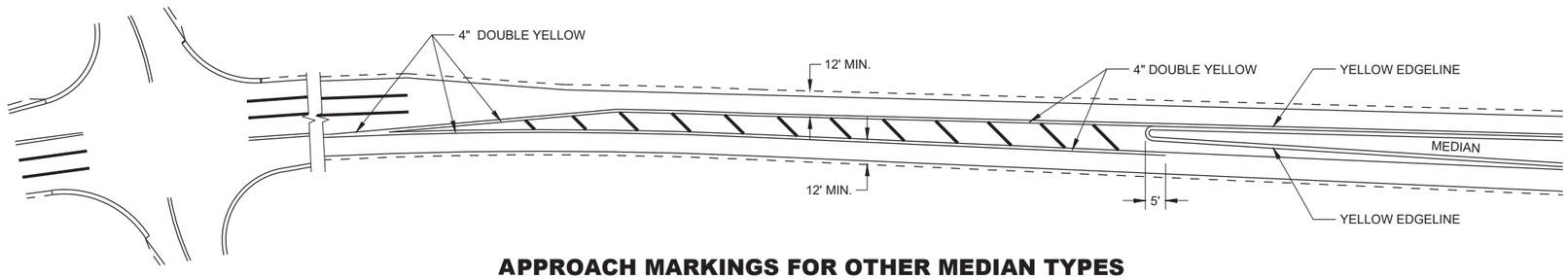


MEDIAN ISLAND DETAIL

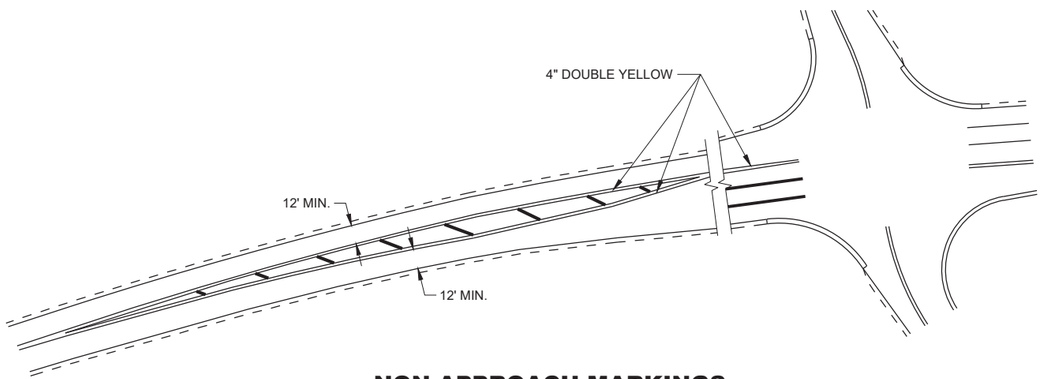
GENERAL NOTES

DIAGONALS ARE OPTIONAL WHEN PAINED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

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SDD 15C18 - 05a

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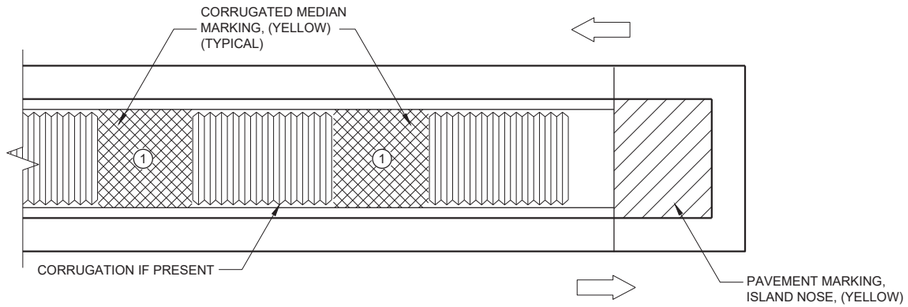
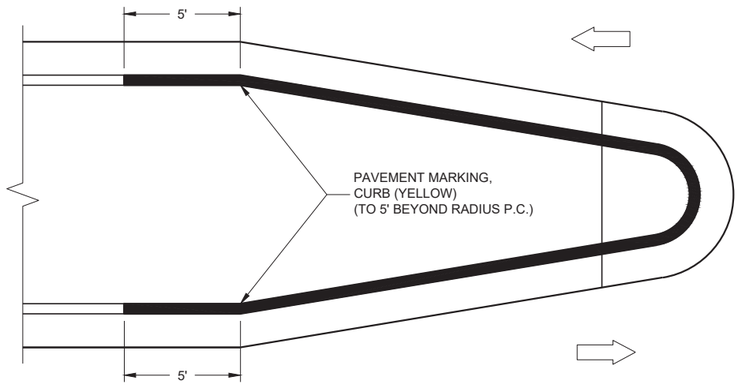
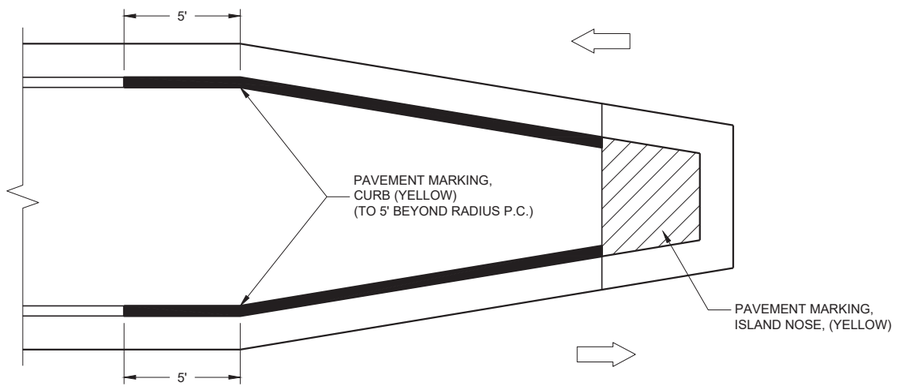
SDD15C18 - 05a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAF
ENGINEER

FHWA

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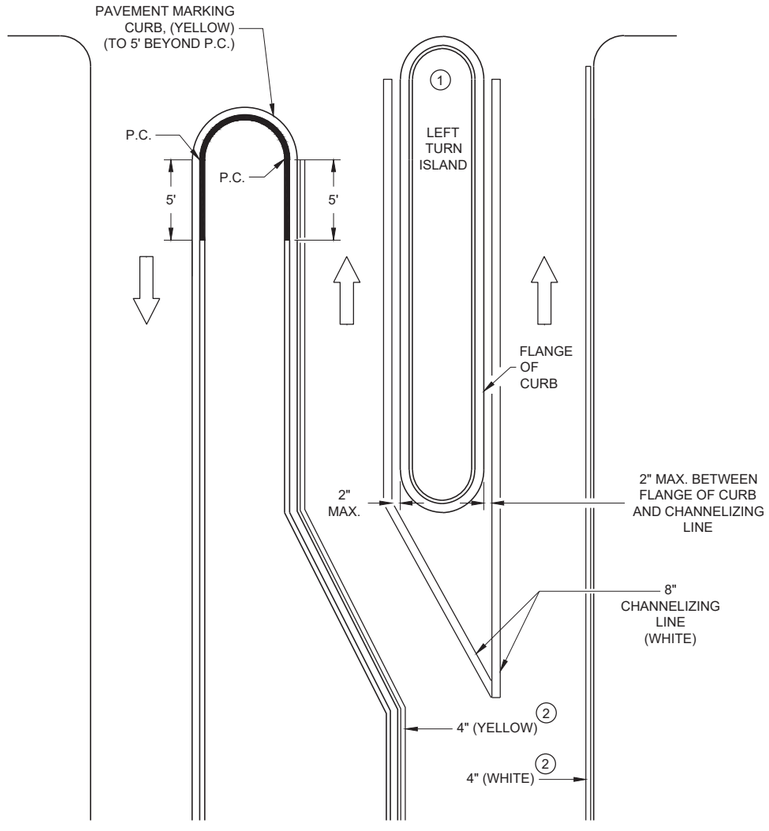
SDD 15C18 - 05b

6

SDD15C18 - 05b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

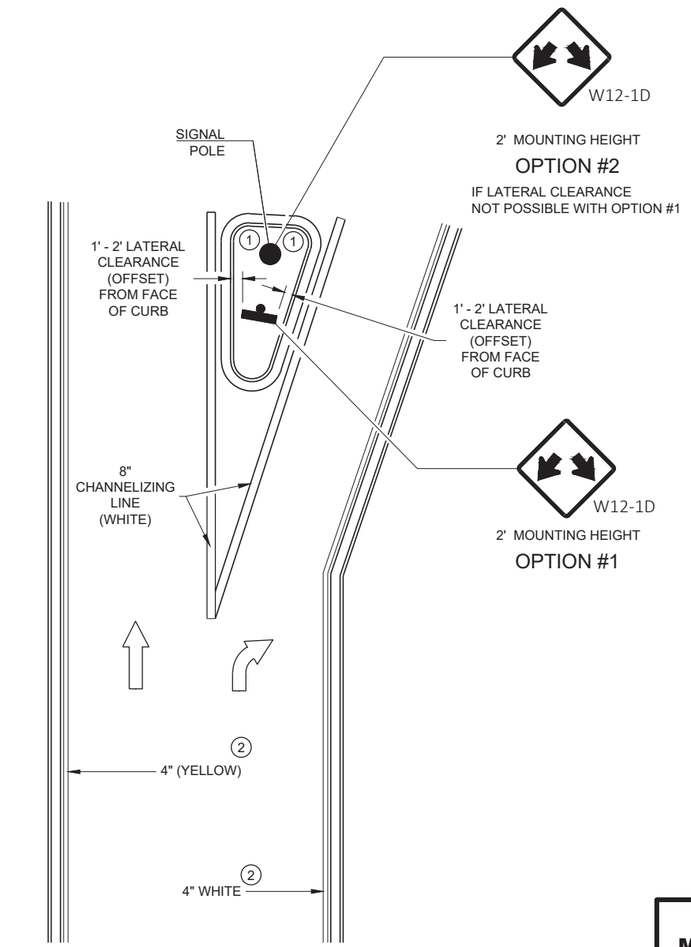
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

6

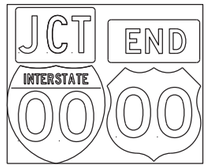
SDD 15C18 - 05c

6

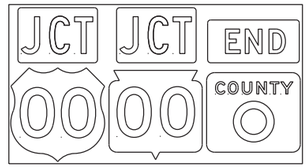
SDD 15C18 - 05c

TYPICAL ASSEMBLIES

J1-1



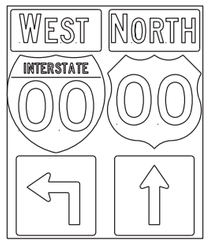
J1-2



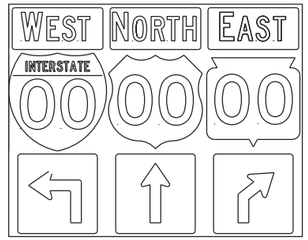
J1-3

JR1-1

J2-1

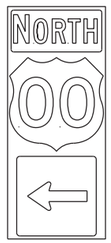


J2-2

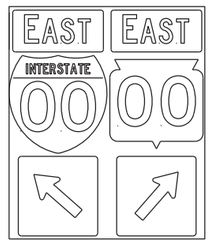


J2-3

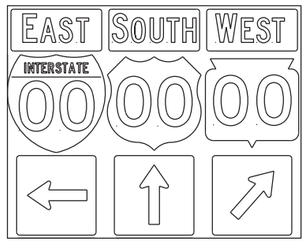
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



J3-1

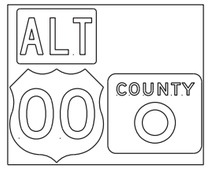


J3-2

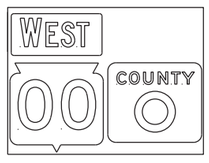


J3-3

J4-1

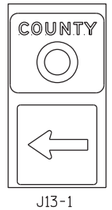


J4-2



J4-2

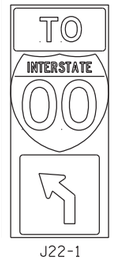
J12-1



J13-1

J32-1

J33-1



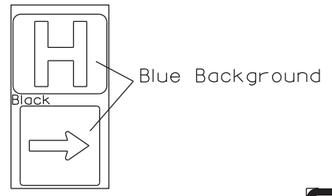
J22-1

J23-1

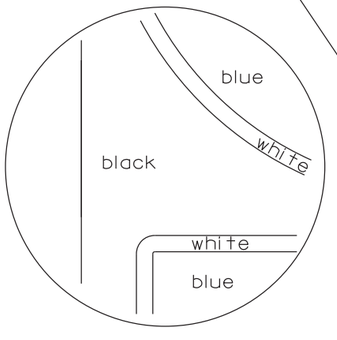
JR13-1

JR23-1

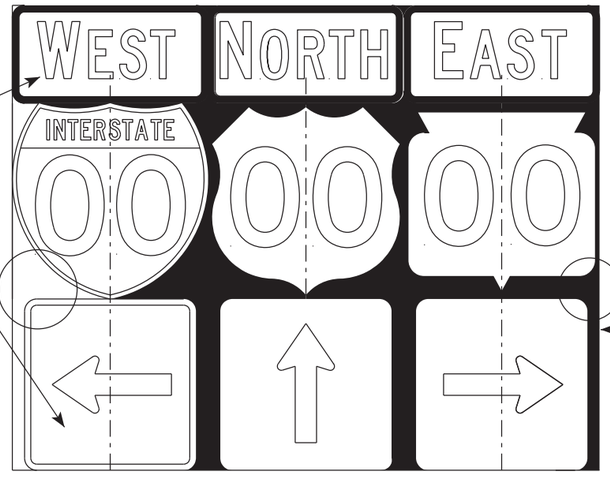
JR99-1

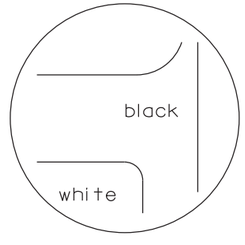


JH-1



[blue background with interstate]





[black background]

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 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

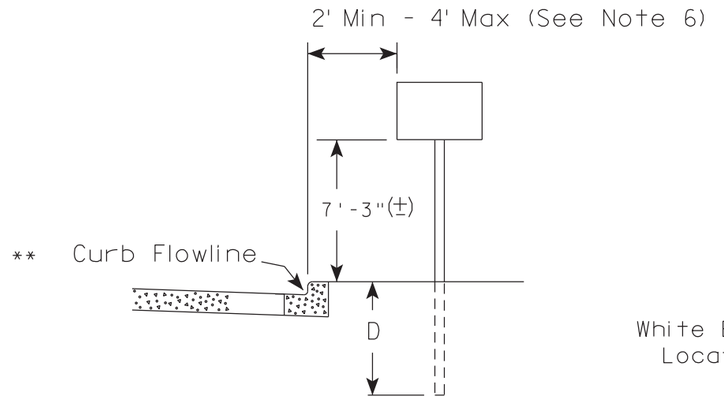
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/21 PLATE NO. A2-1S.9

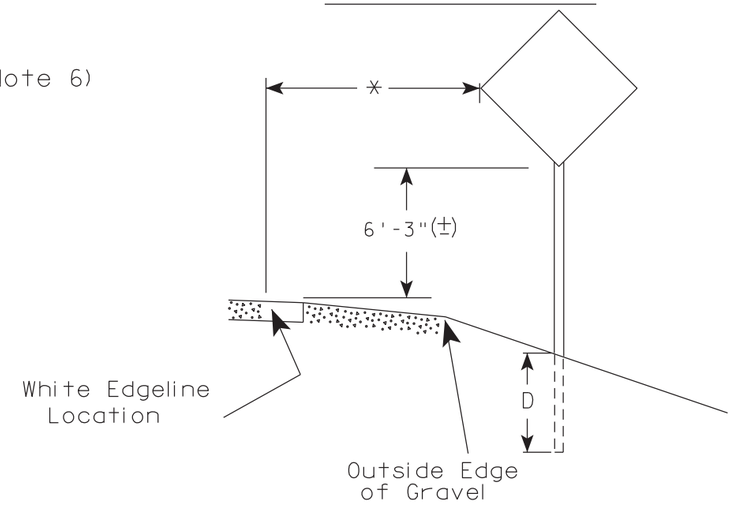
PROJECT NO:

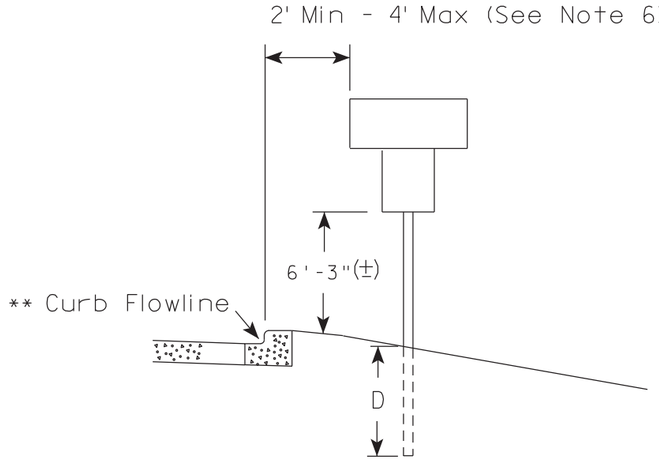
SHEET NO: 144 E

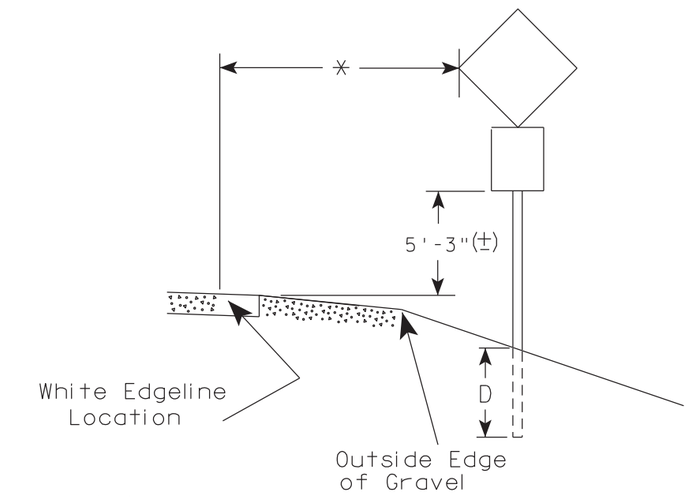
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

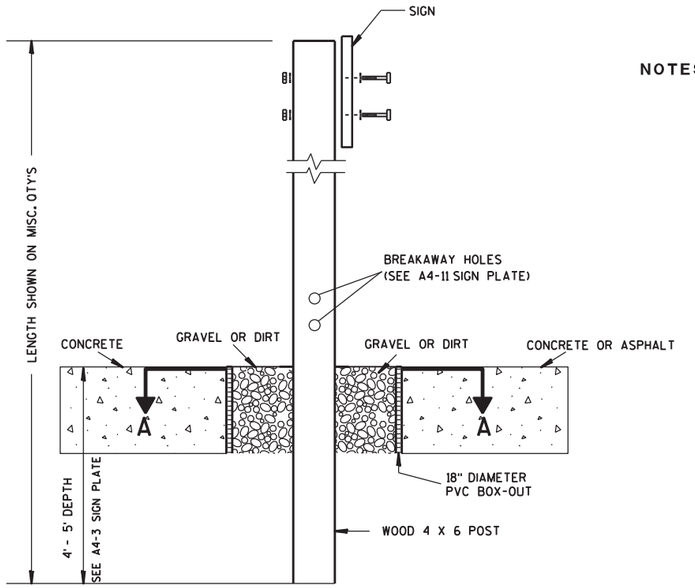
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

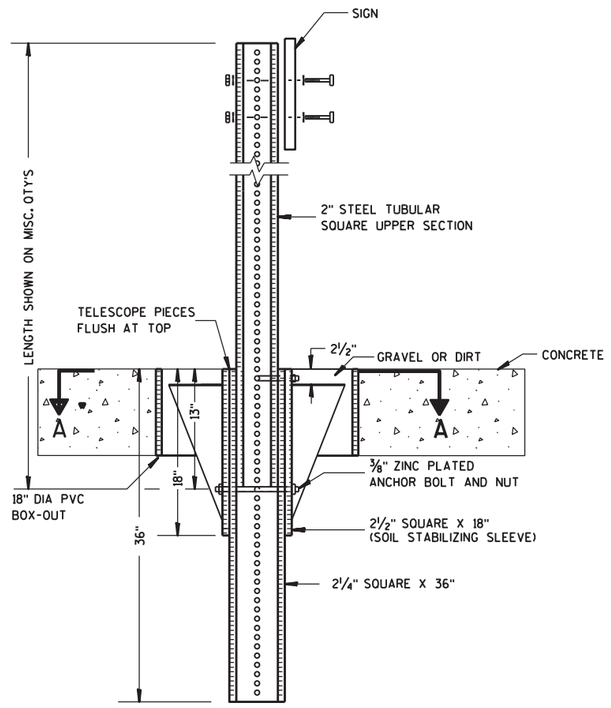
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 145	E



ELEVATION VIEW

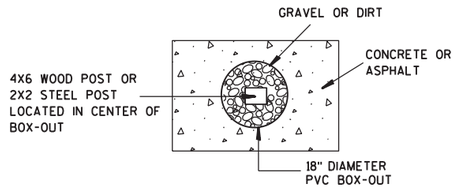
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

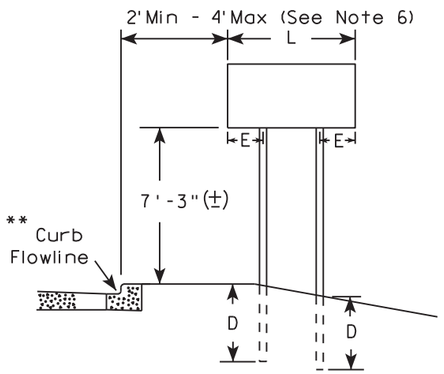
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

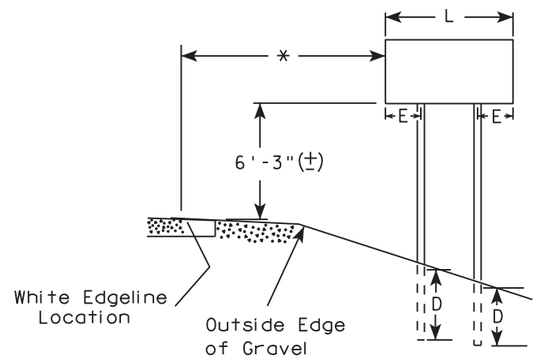
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

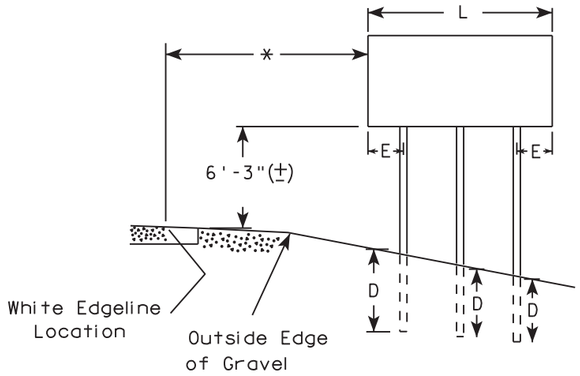
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

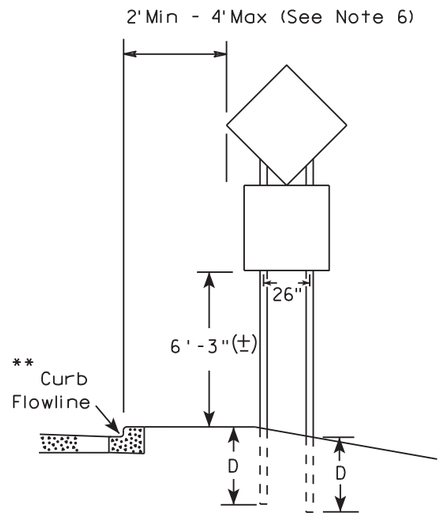
URBAN AREA



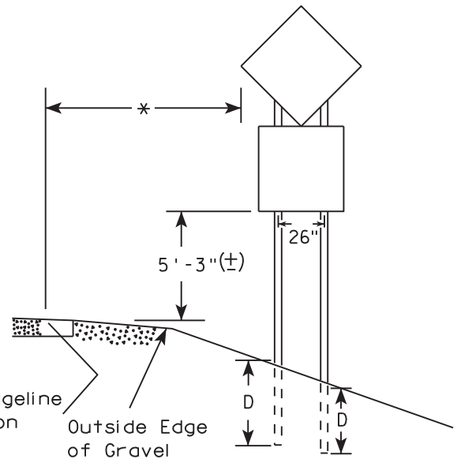
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

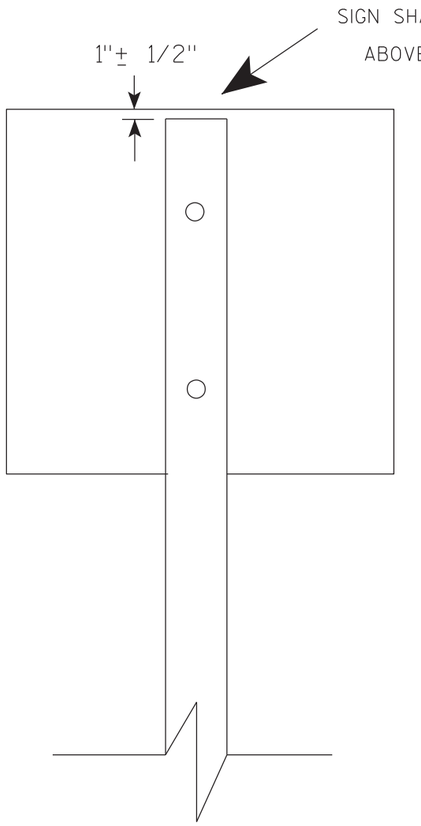
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

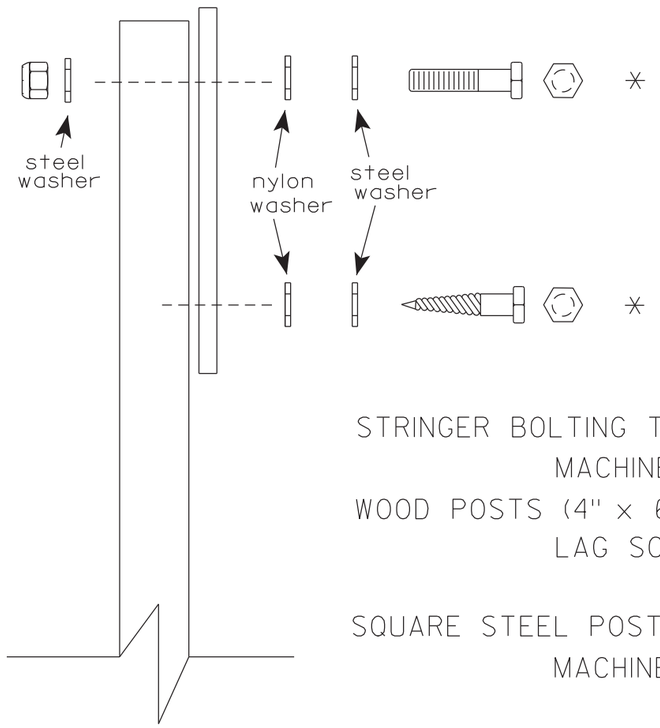
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 147	E





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

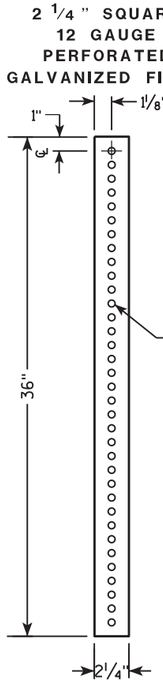
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

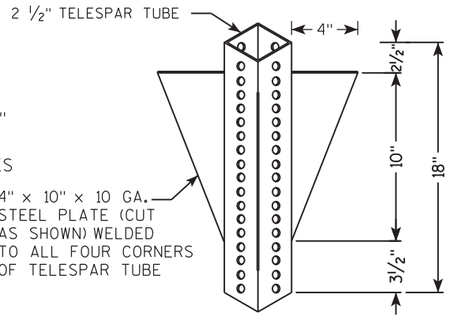
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

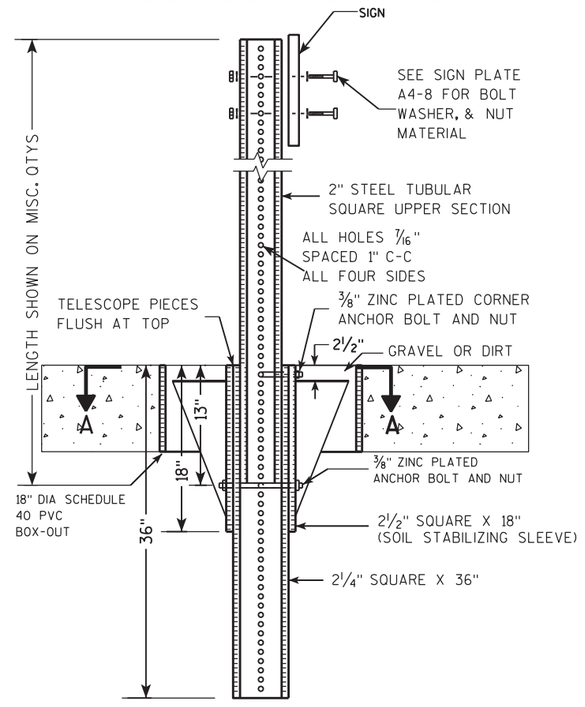
2 ¼ " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



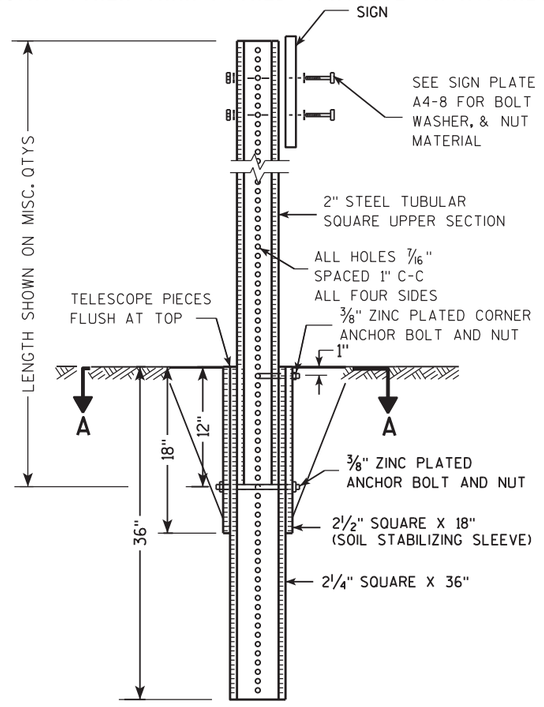
2 ½ " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

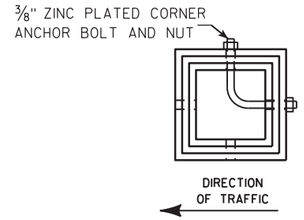


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

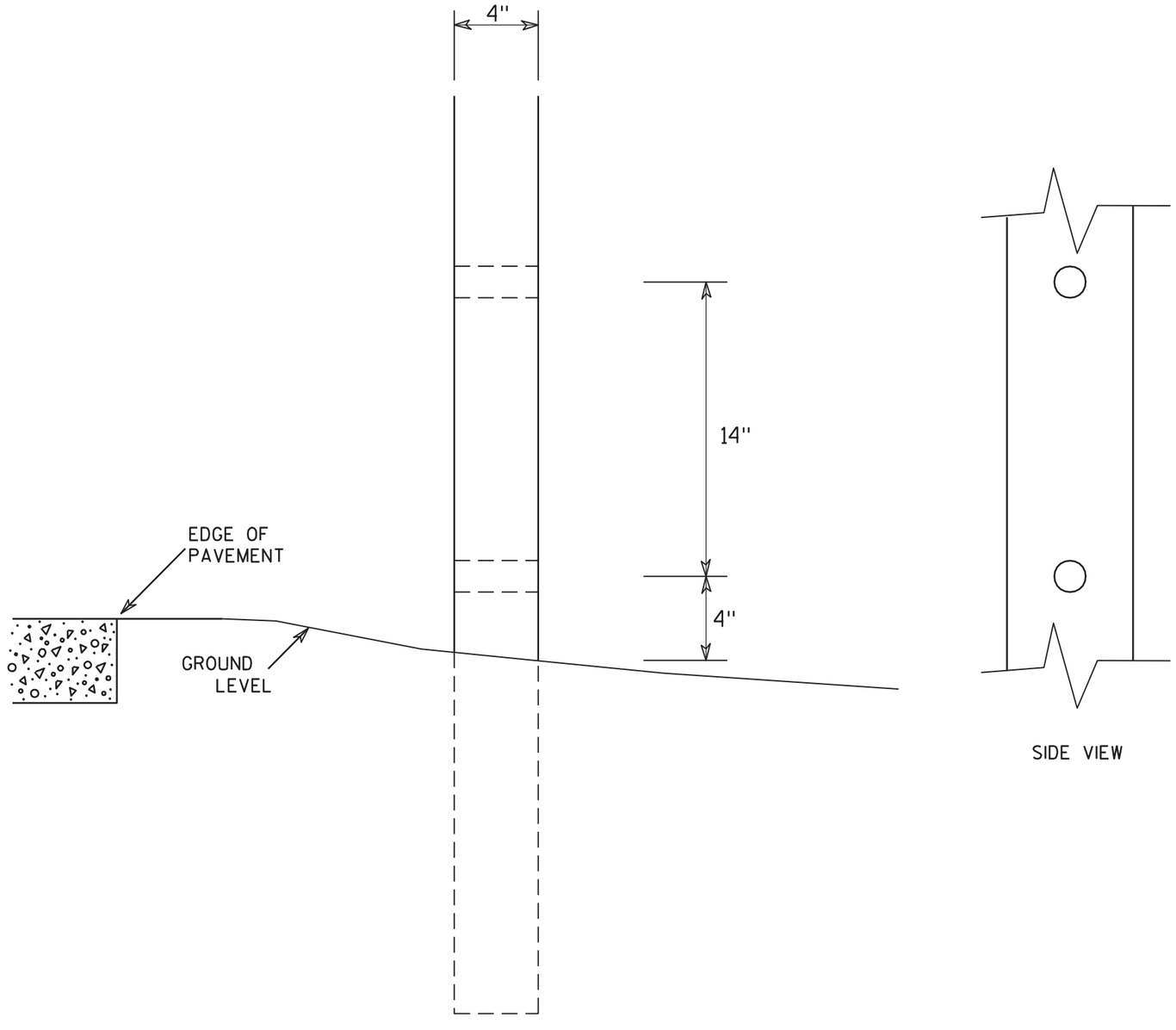
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000
WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

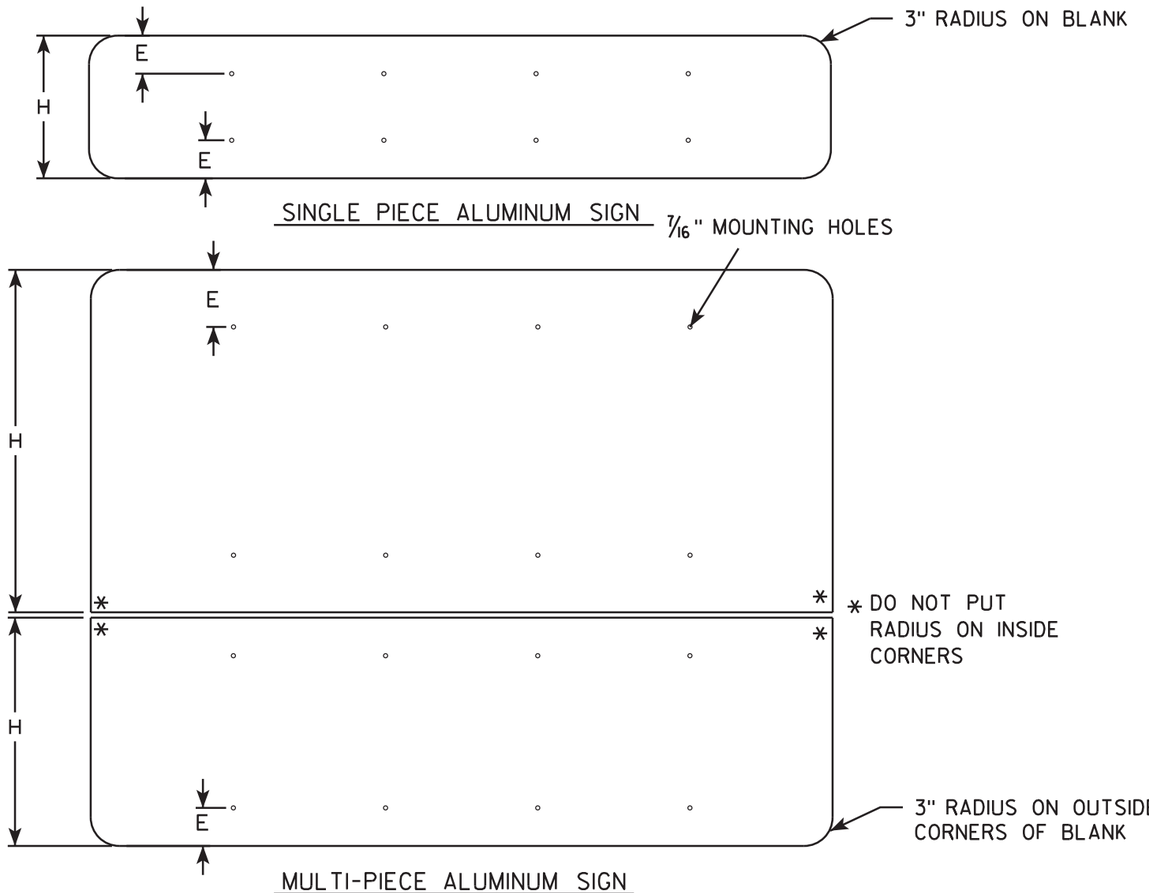
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

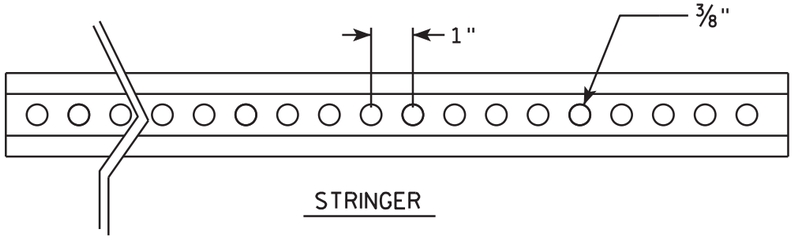
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 150	E



GENERAL NOTES

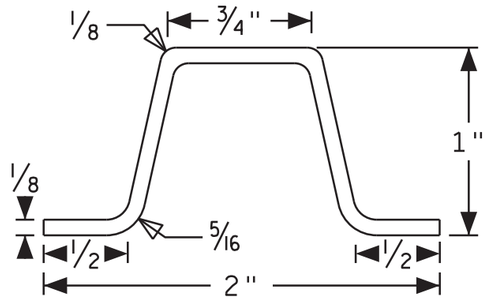
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

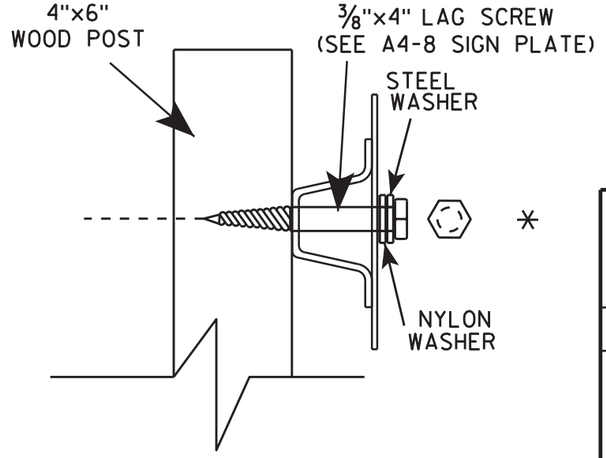


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

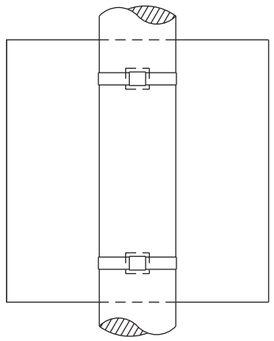
DATE 4/26/16 PLATE NO A4-18.1

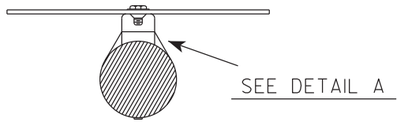
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

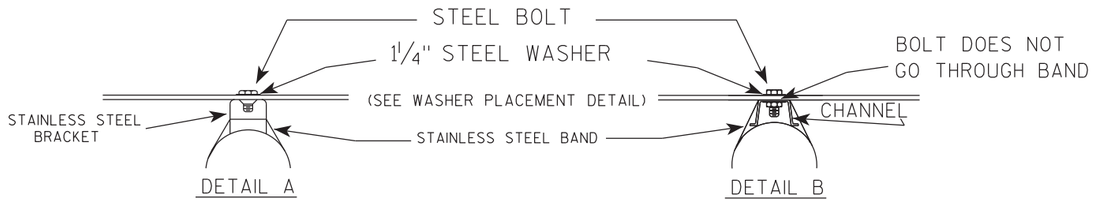
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

BANDING

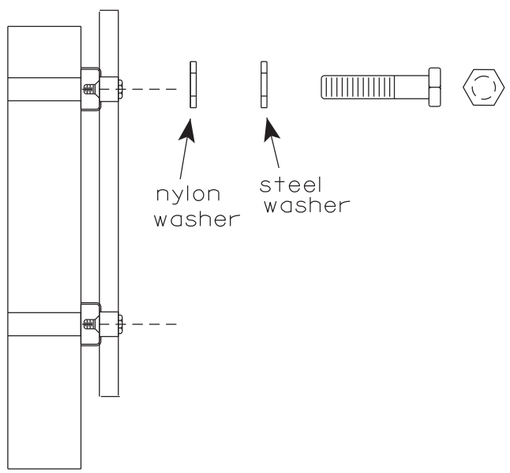
SINGLE SIGN







WASHER PLACEMENT

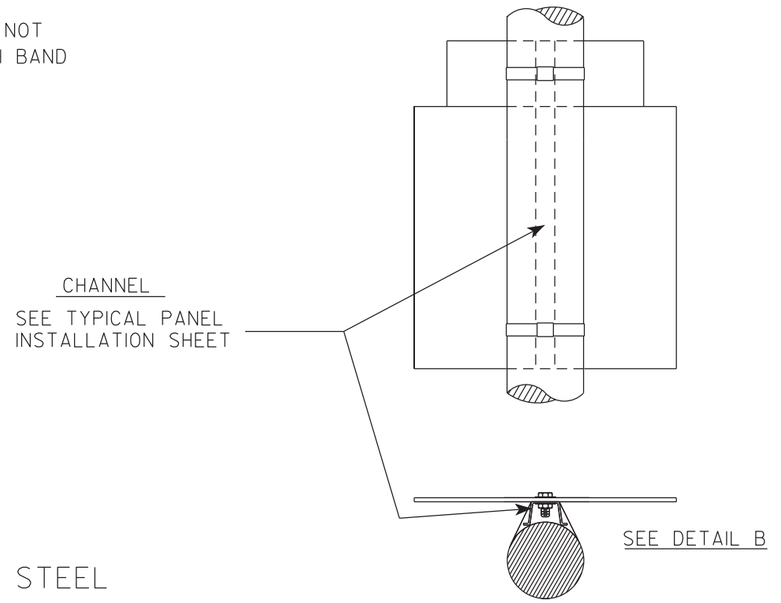


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

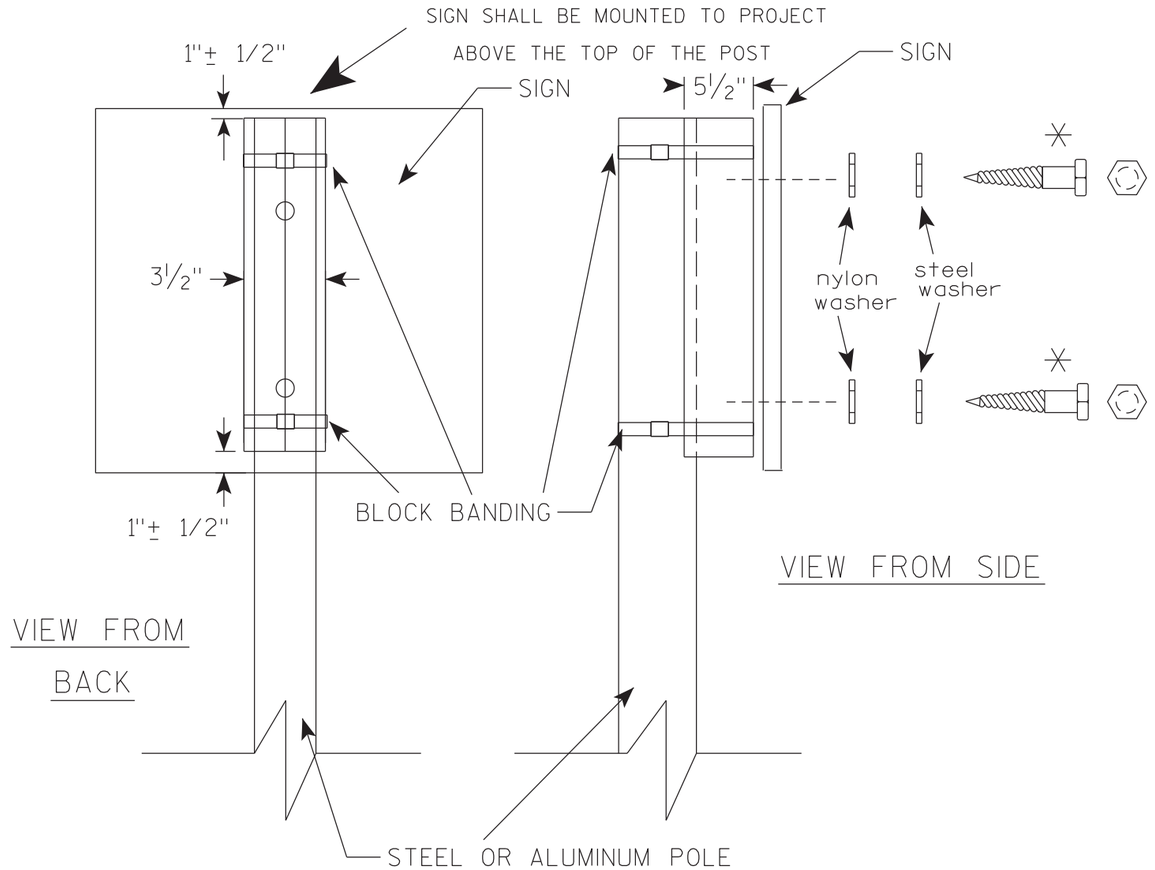
DATE 6/10/19 PLATE NO. A5-9.4

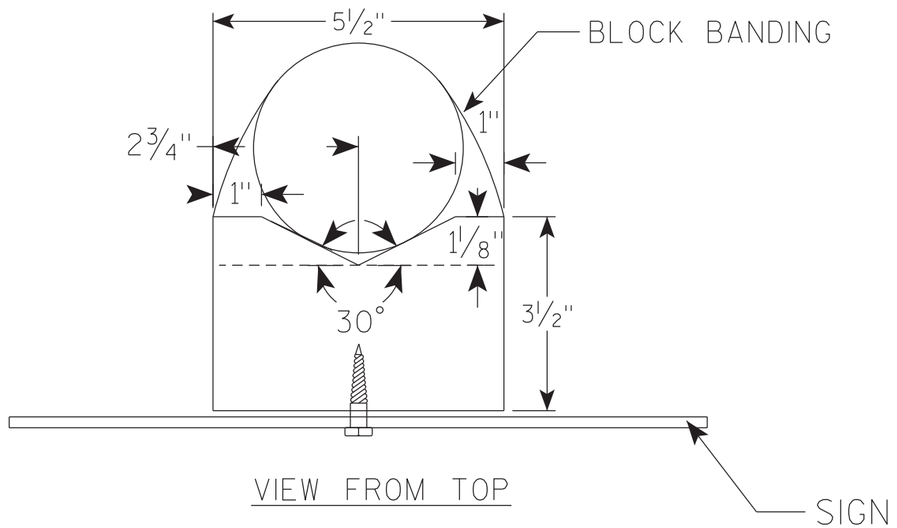
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 152	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

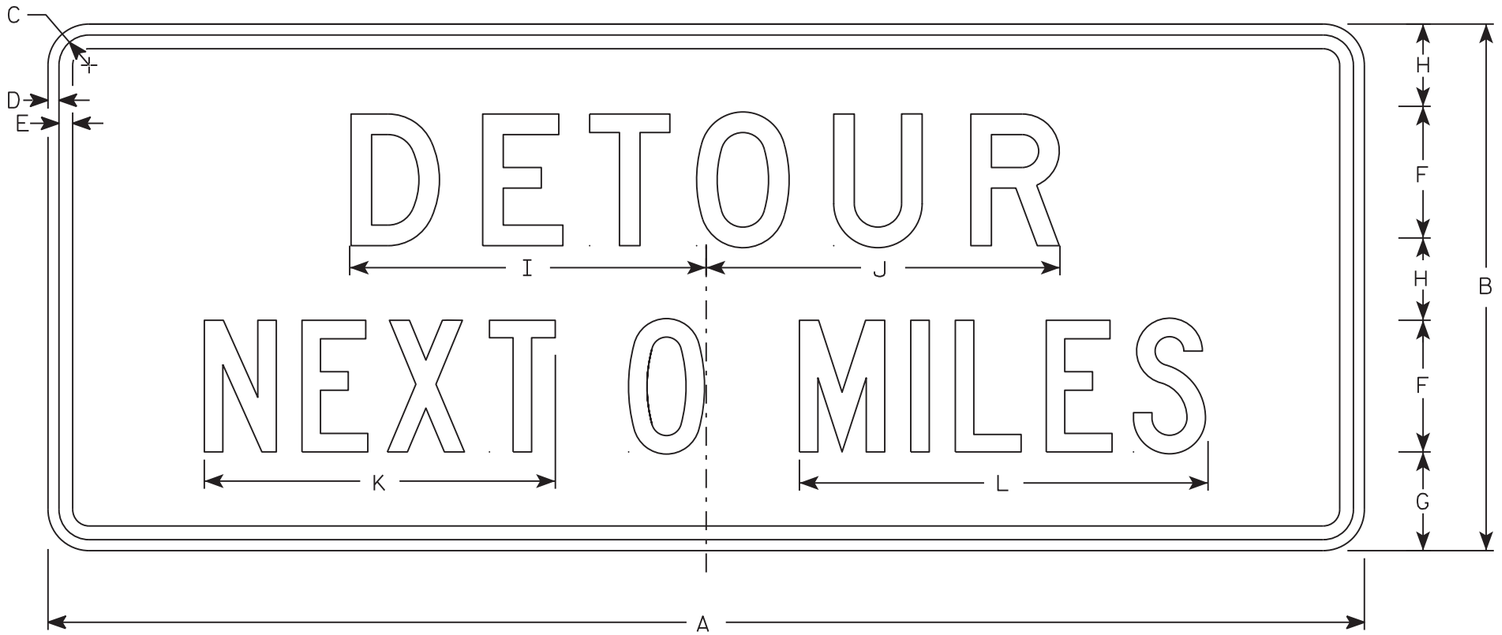
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO:

SHEET NO: 153 E



G20-51

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - Line 1 is D and Line 2 is 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. Round distance to nearest whole Mile and 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																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10
5																											

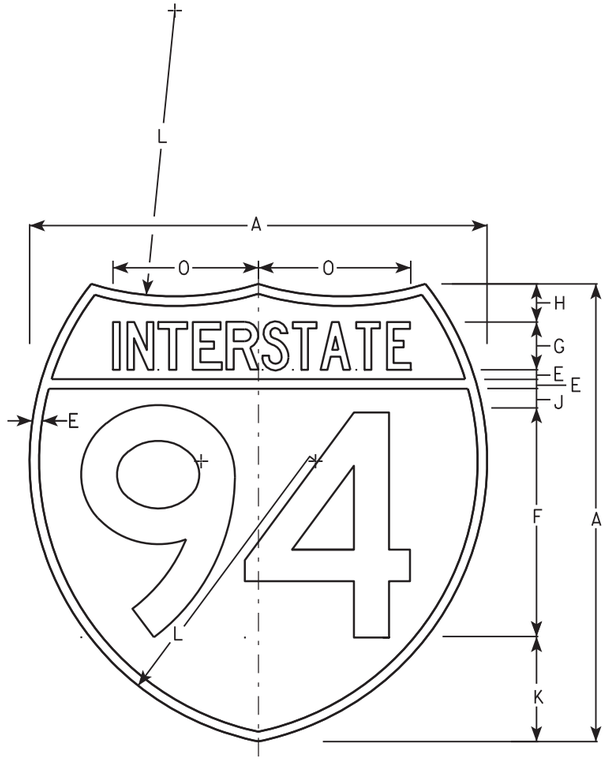
STANDARD SIGN
G20-51

WISCONSIN DEPT OF TRANSPORTATION

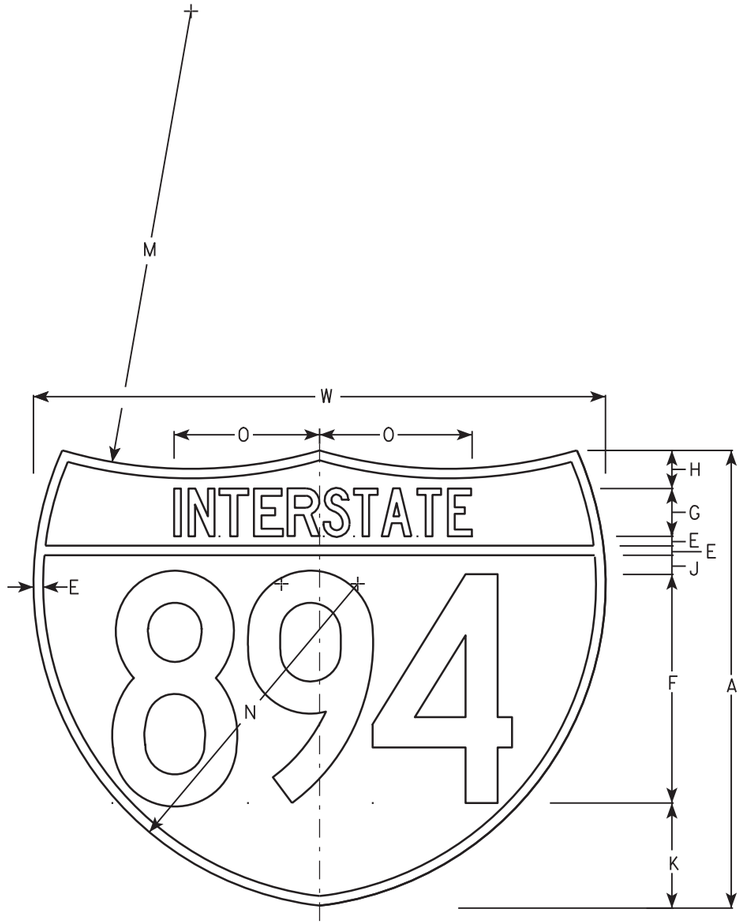
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-51.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 154	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

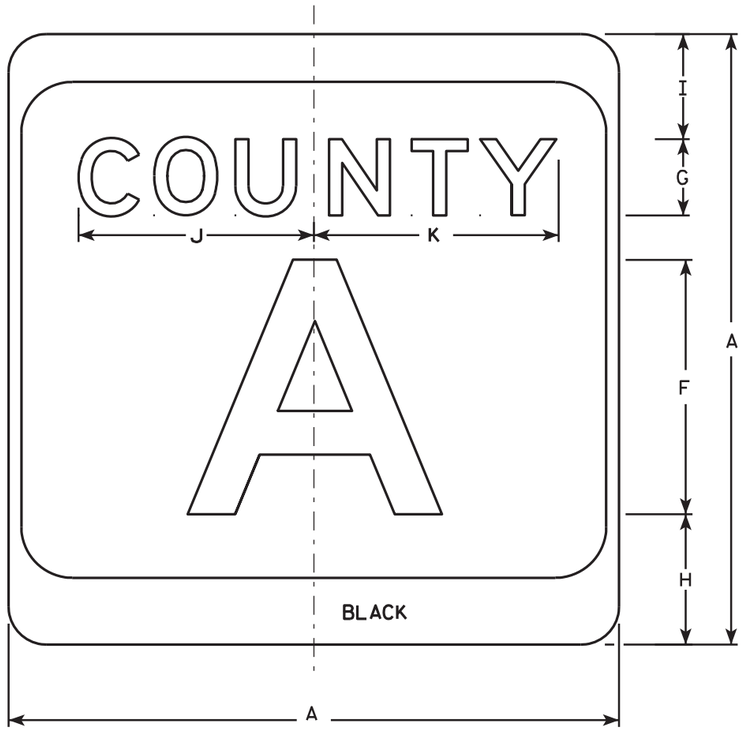
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

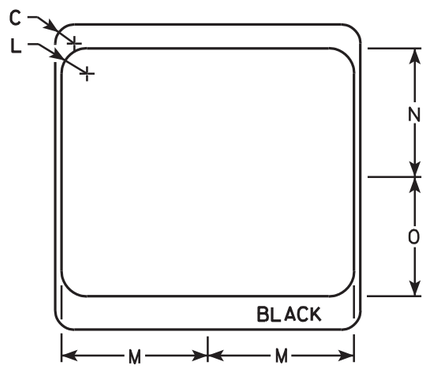
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

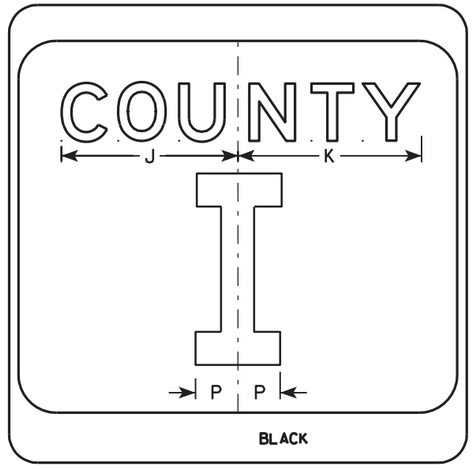
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 155	E

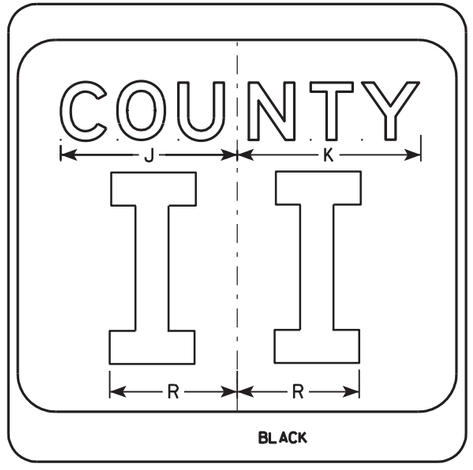




NOTES

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

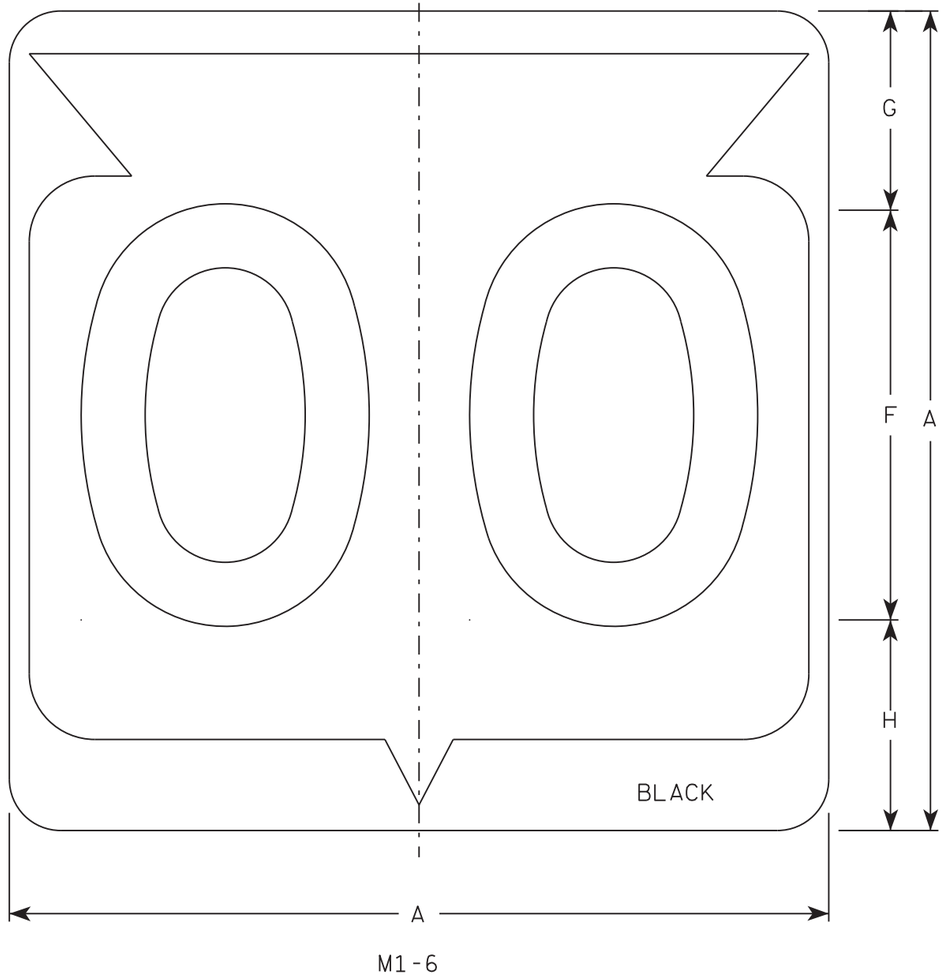
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

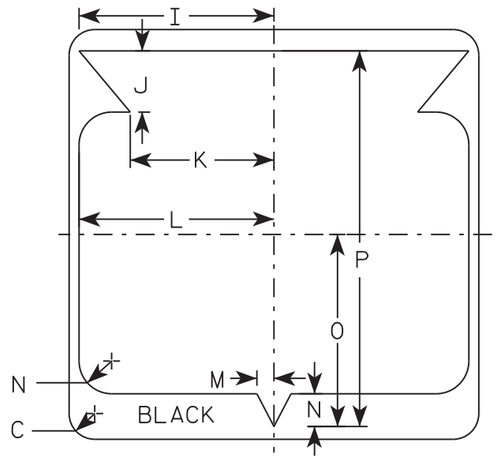
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 156 | E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs 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																											
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
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
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
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

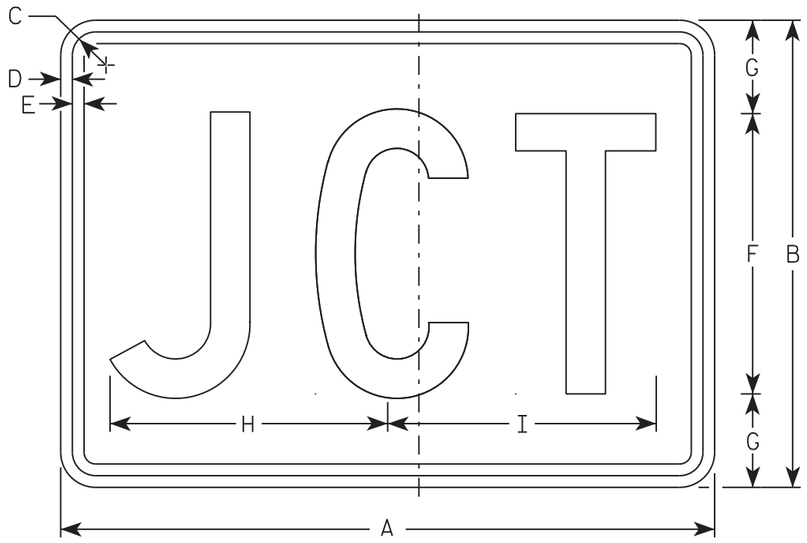
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

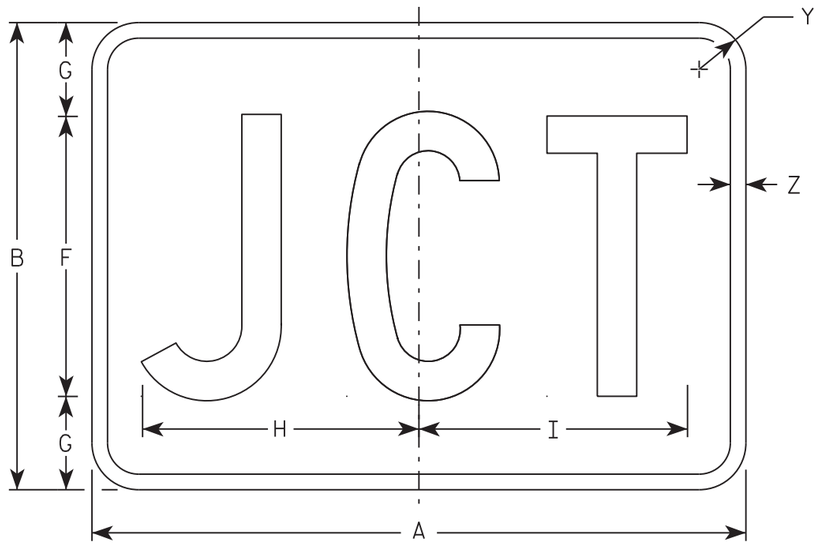
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 157 | E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

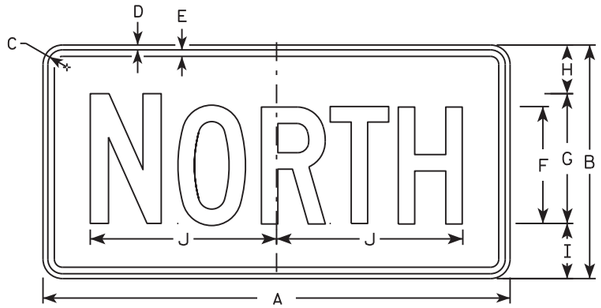
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

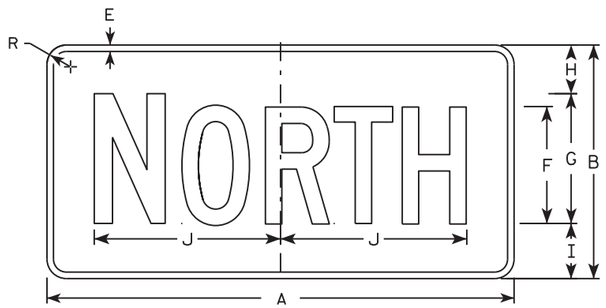
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 158 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



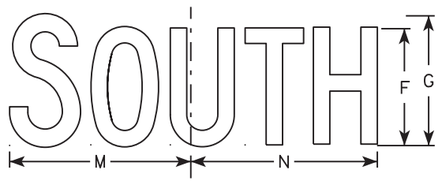
M3-1
MM3-1
MP3-1



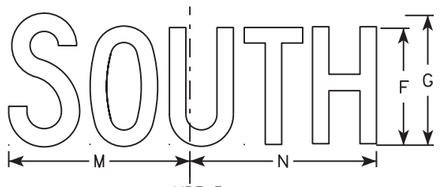
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

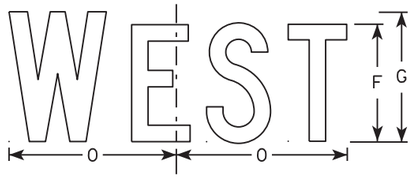
MB3-2
MK3-2
MN3-2



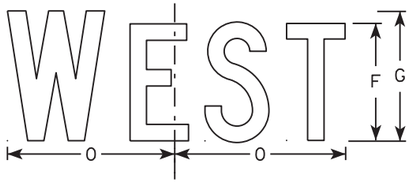
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

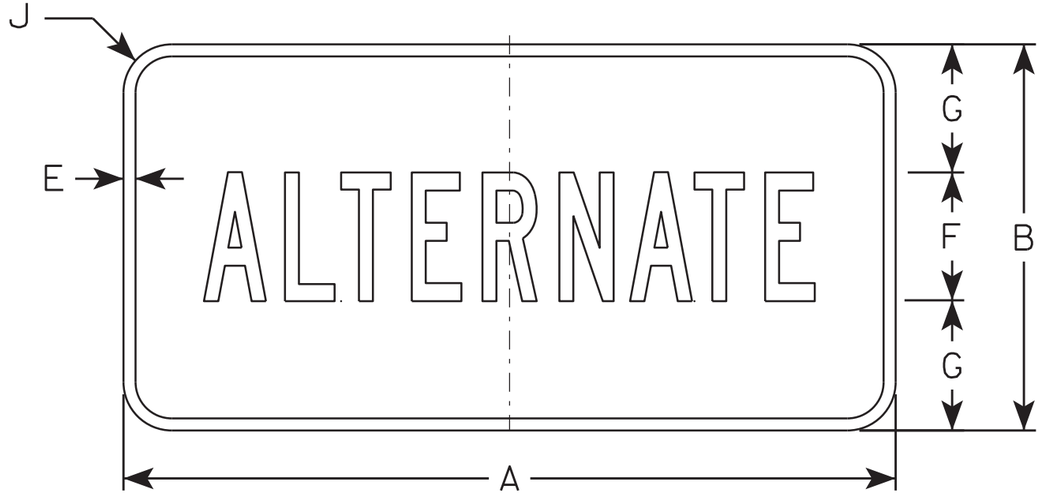
APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000

M4-1
MO4-1



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

   MO4-1 Background - Orange - Type F
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	4	4	9 3/4	9 1/2	1 1/2																	2.00
3	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
4	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
5	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5

STANDARD SIGN
M4-1

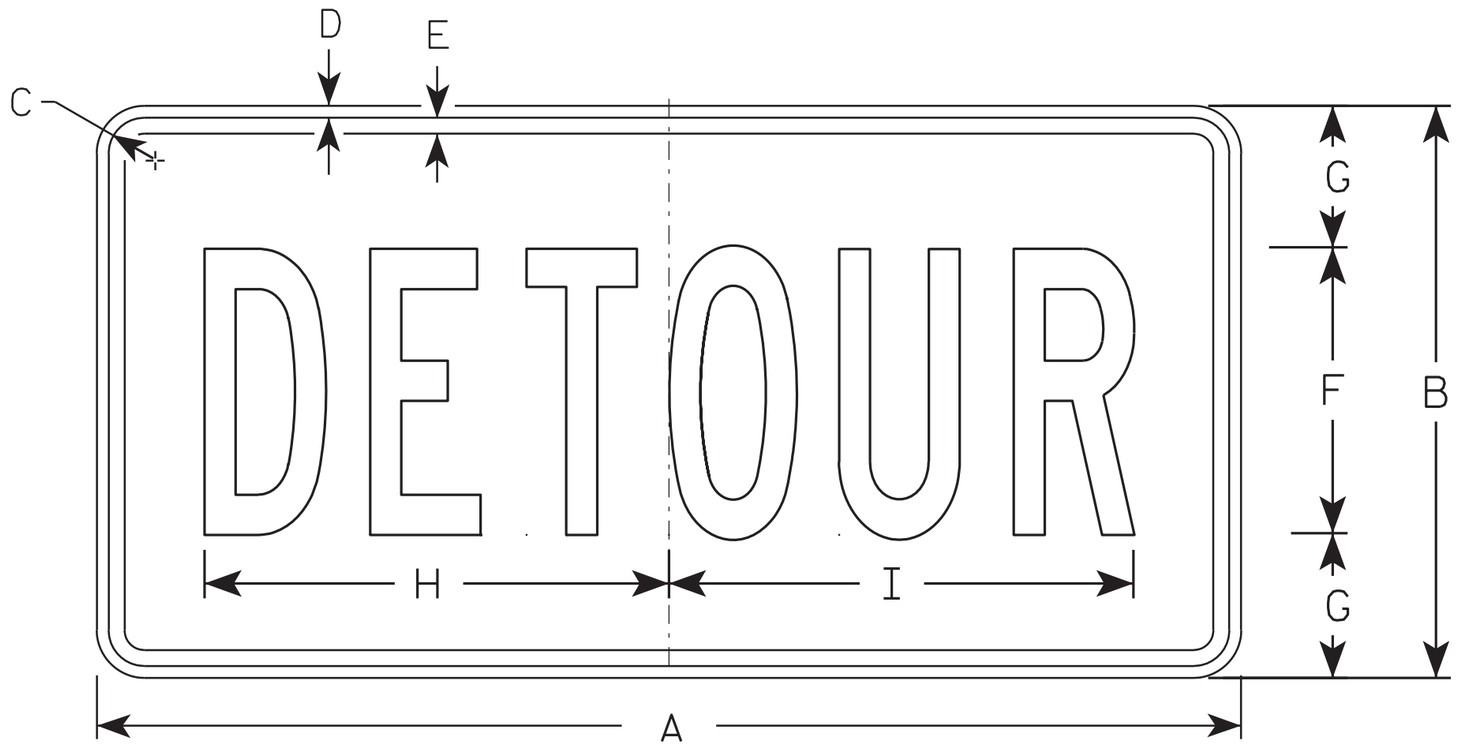
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/14 PLATE '14-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M41.DGN PLOT DATE : 30-JUN-2014 15:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 4.708937:1.000000 WISDOT/CADDS SHEET 42



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

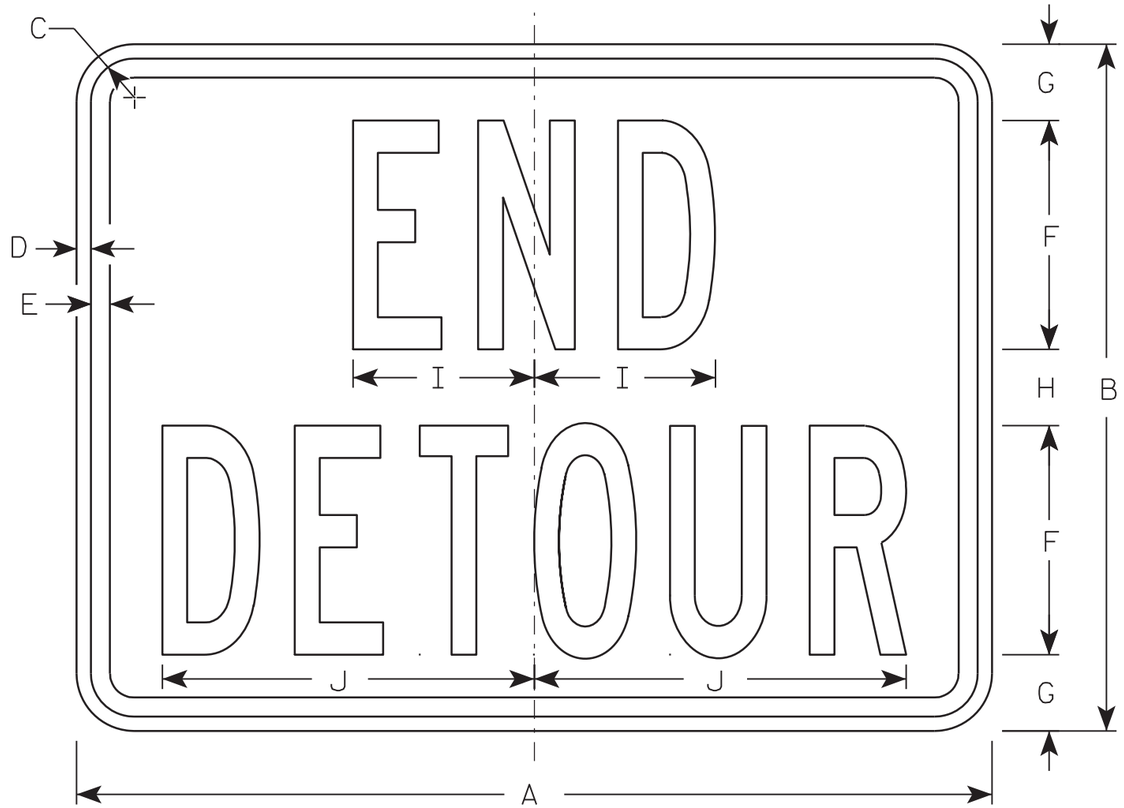
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 161	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

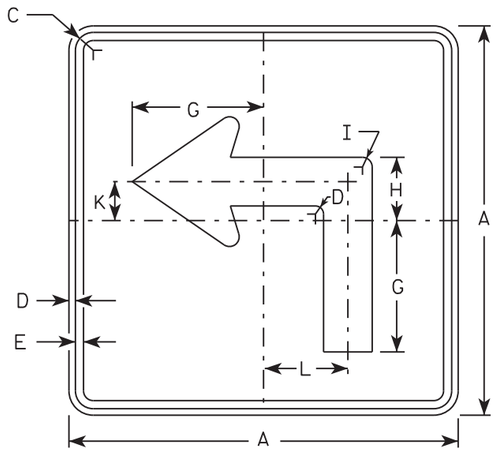
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

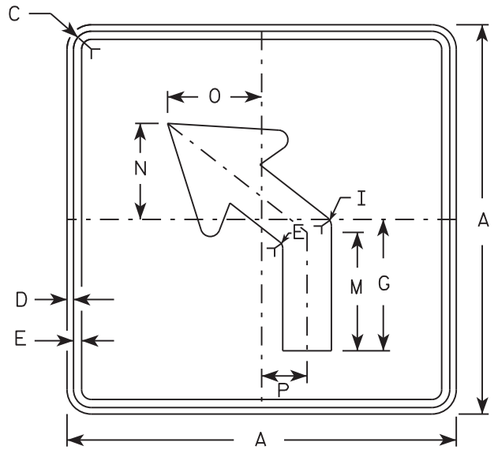
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

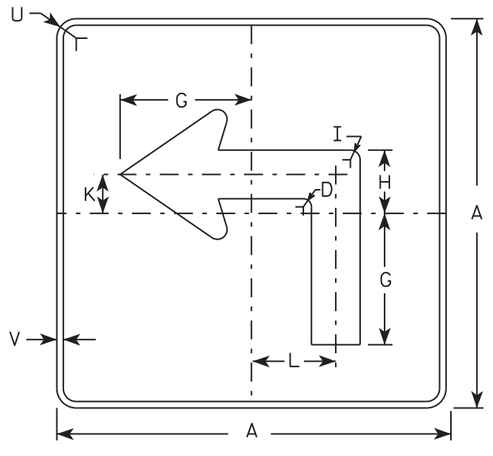
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 162	E



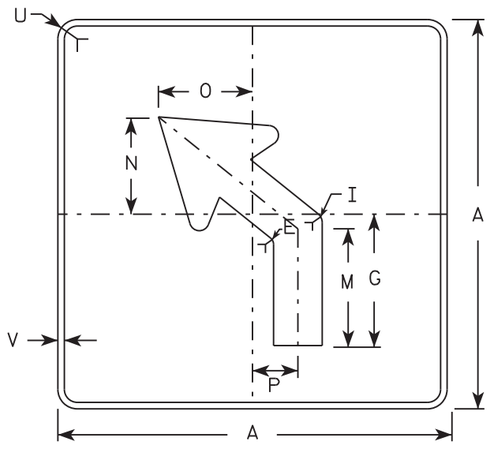
M5-1L
MM5-1L
MO5-1L
MP5-1L



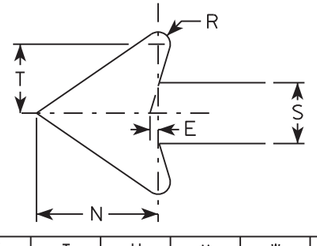
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

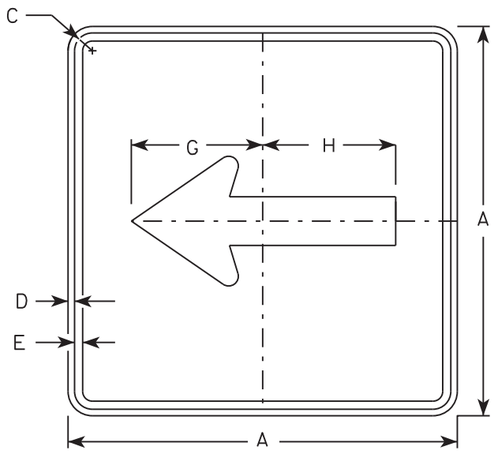
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

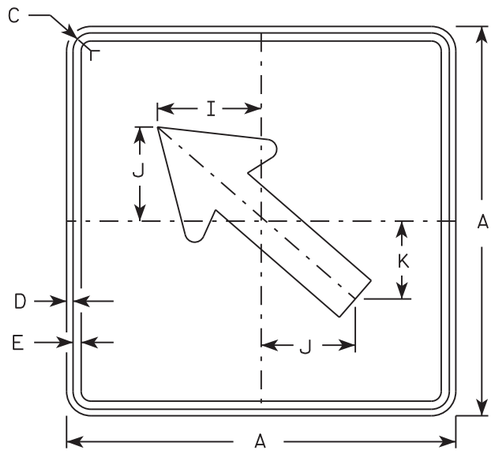
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



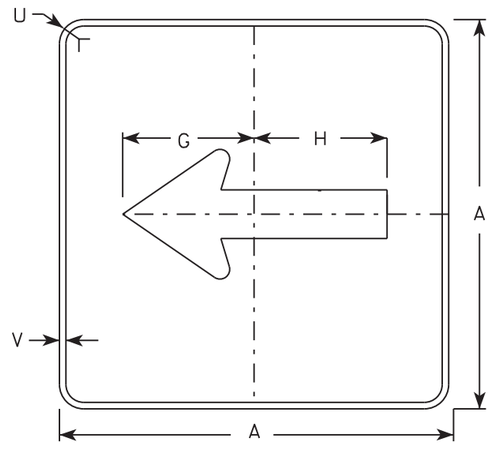
M6-1
MM6-1
MO6-1
MP6-1



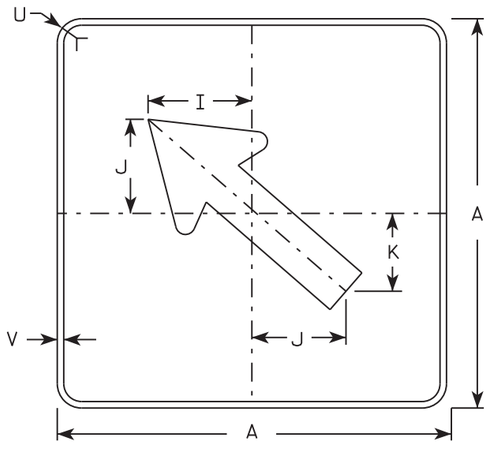
M6-2
MM6-2
MO6-2
MP6-2

NOTES

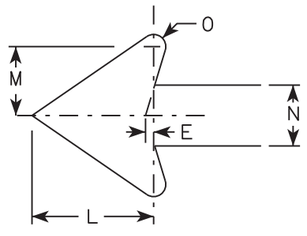
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

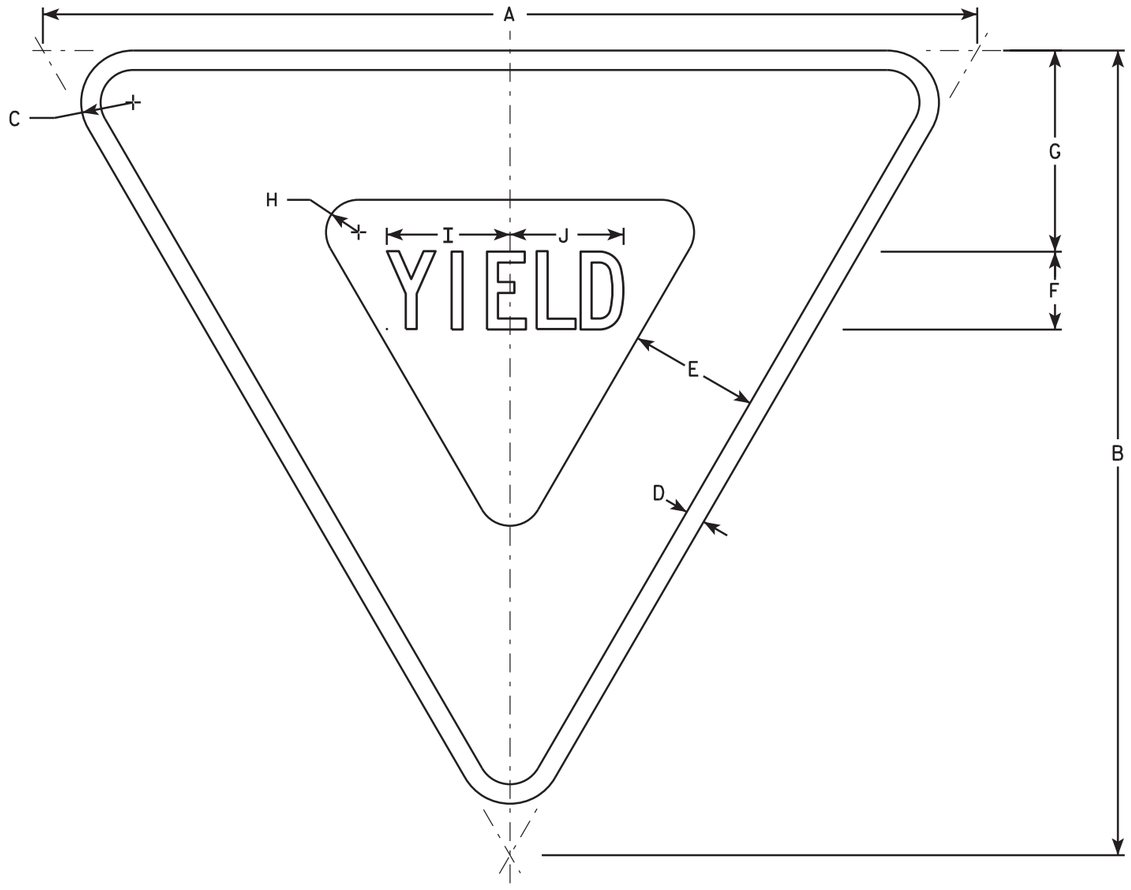
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 164 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

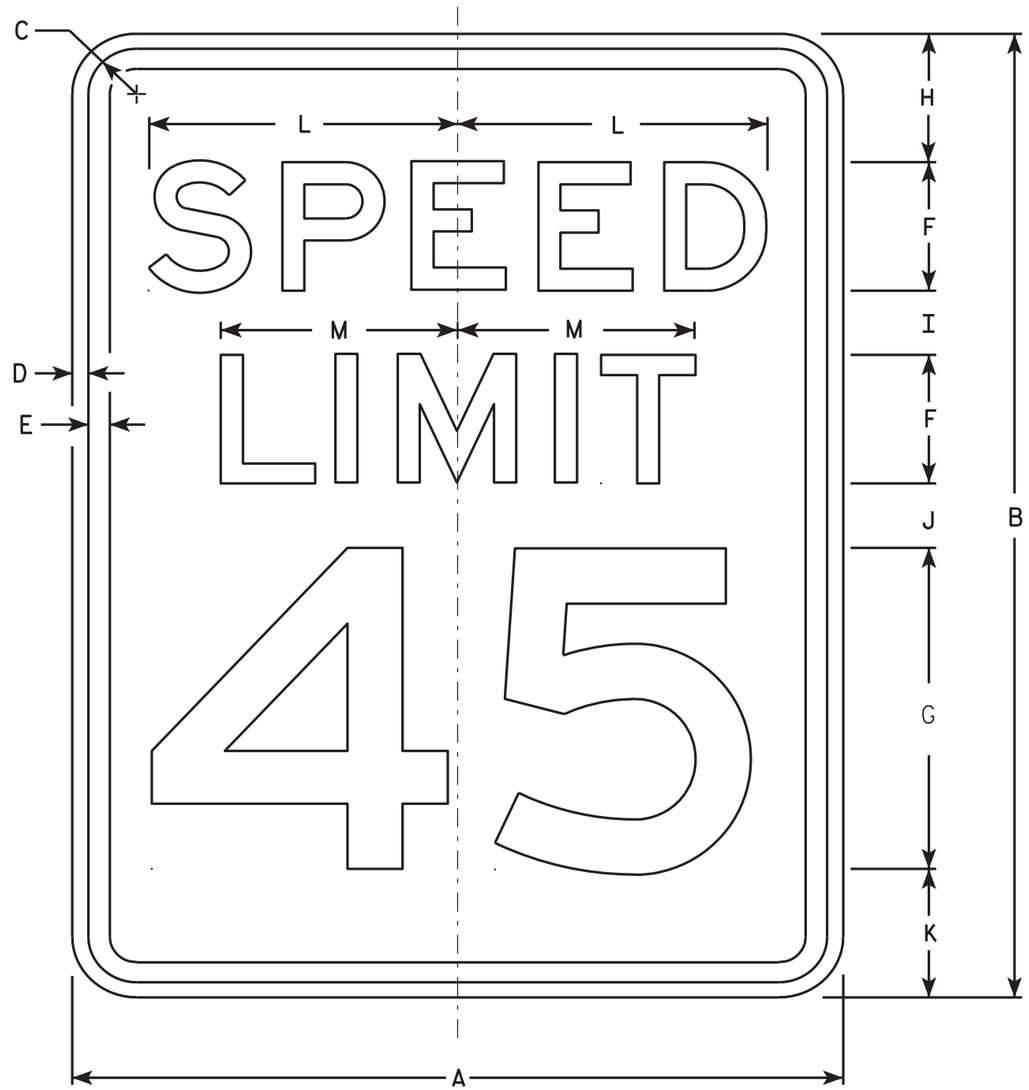
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE 165 R1-2.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

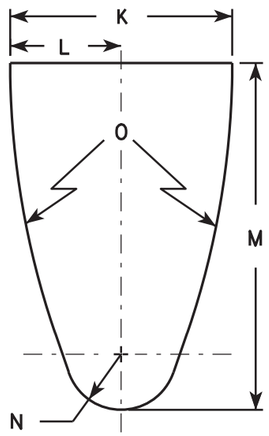
APPROVED Matthew R Rauch
For State Traffic Engineer

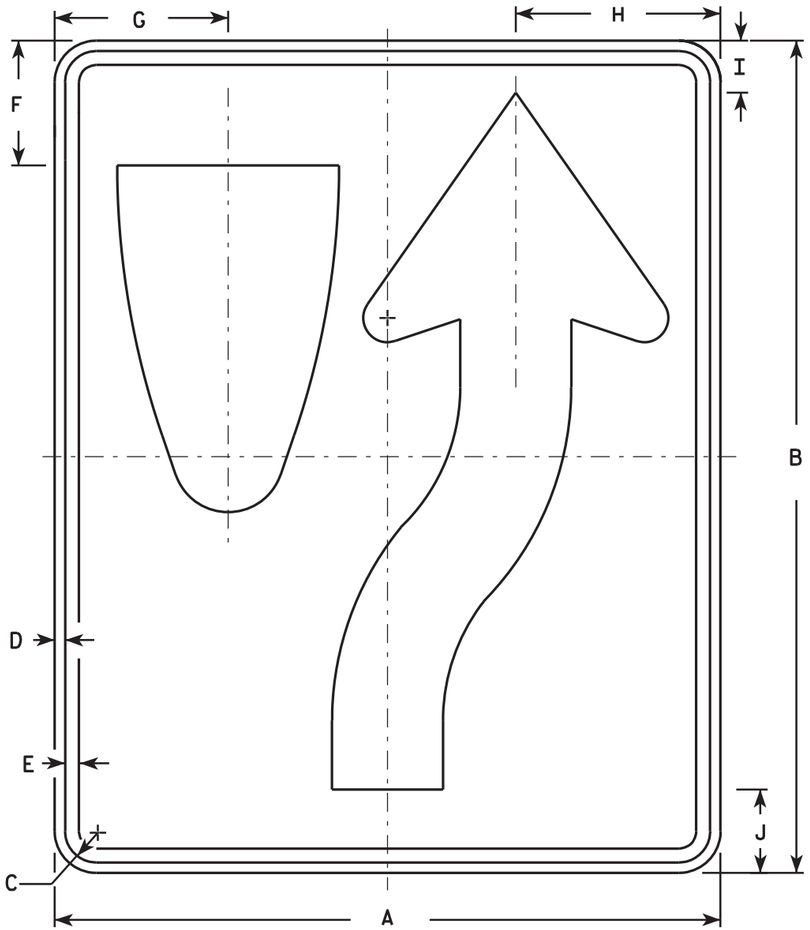
DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 166 | E

7

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

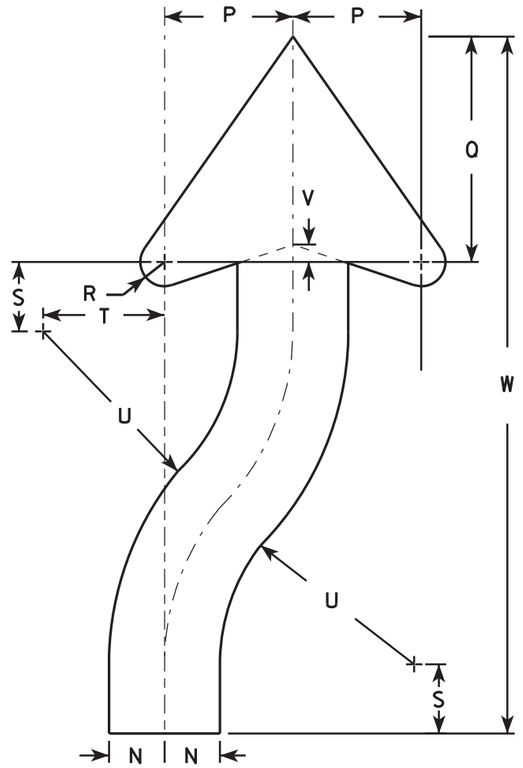




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

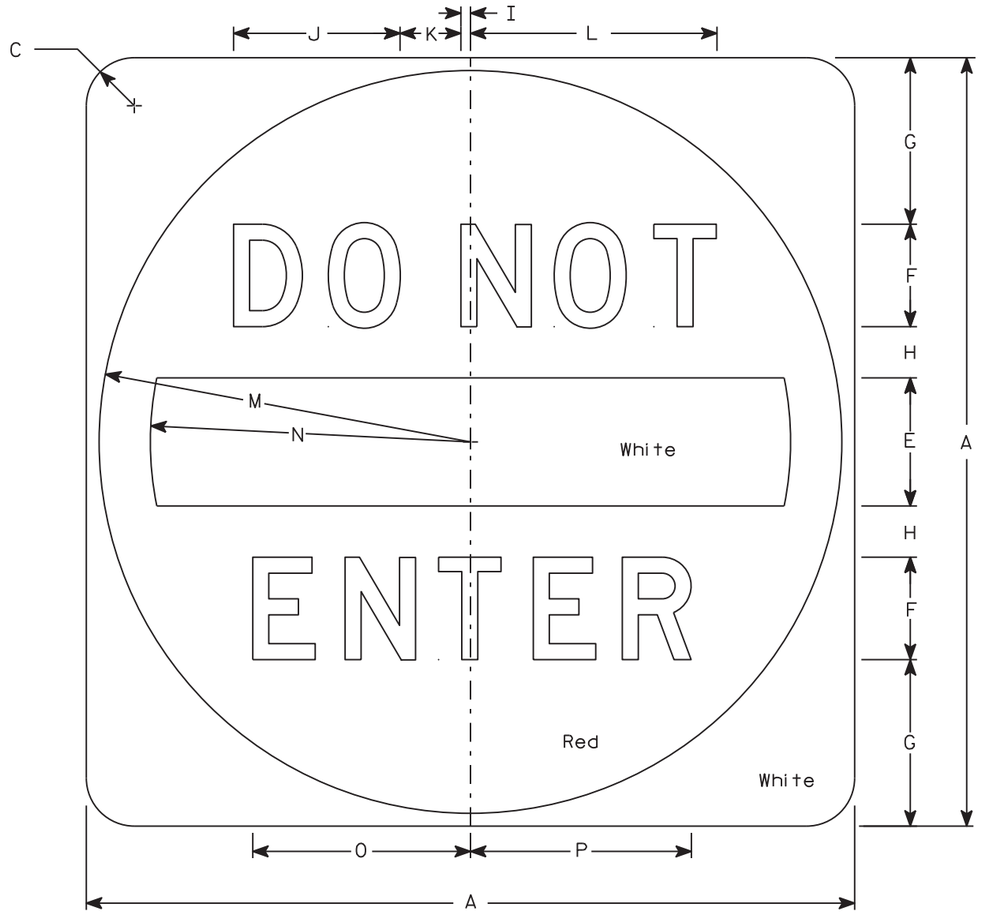
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 167	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

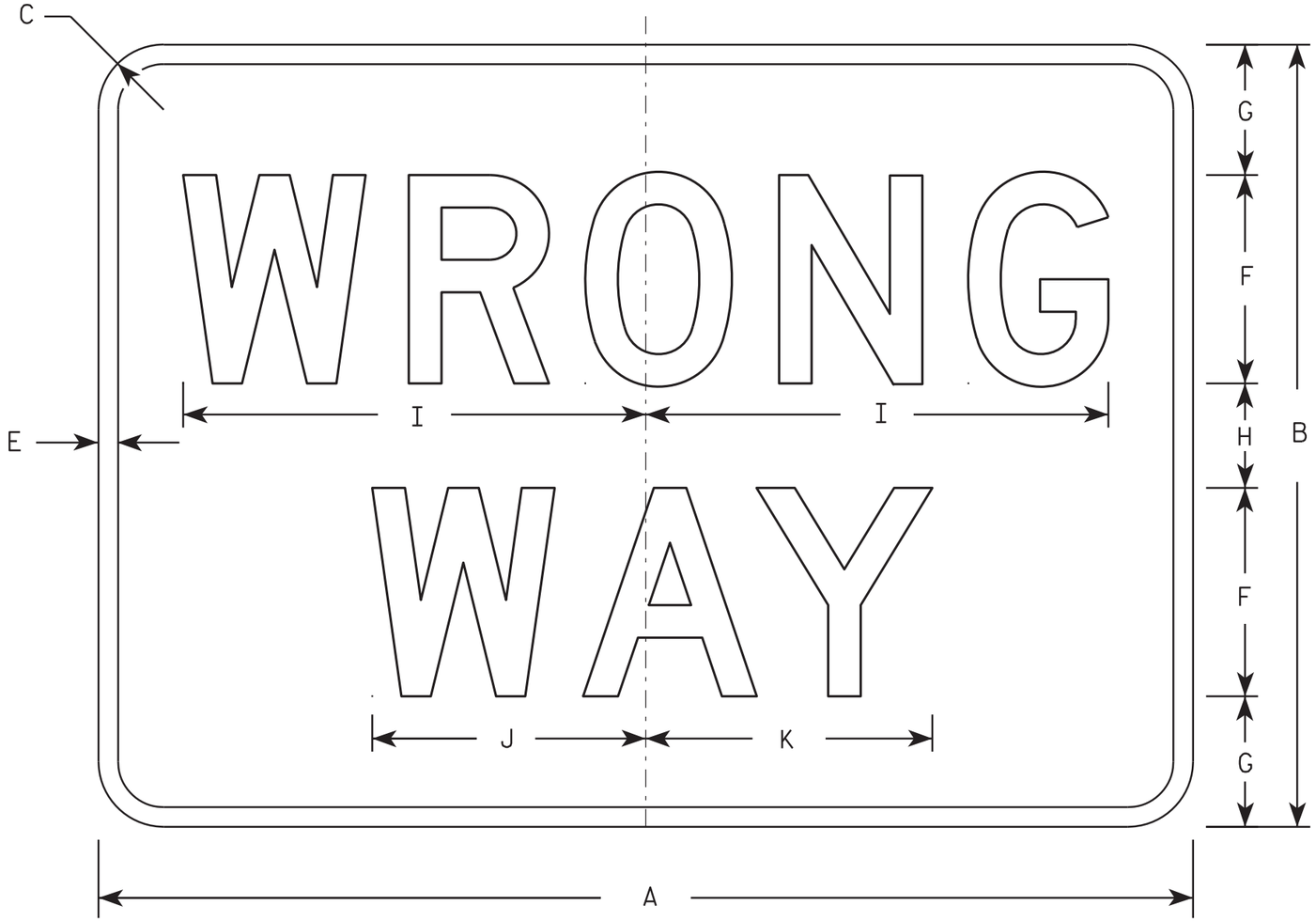
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 168 | E



R5-1A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

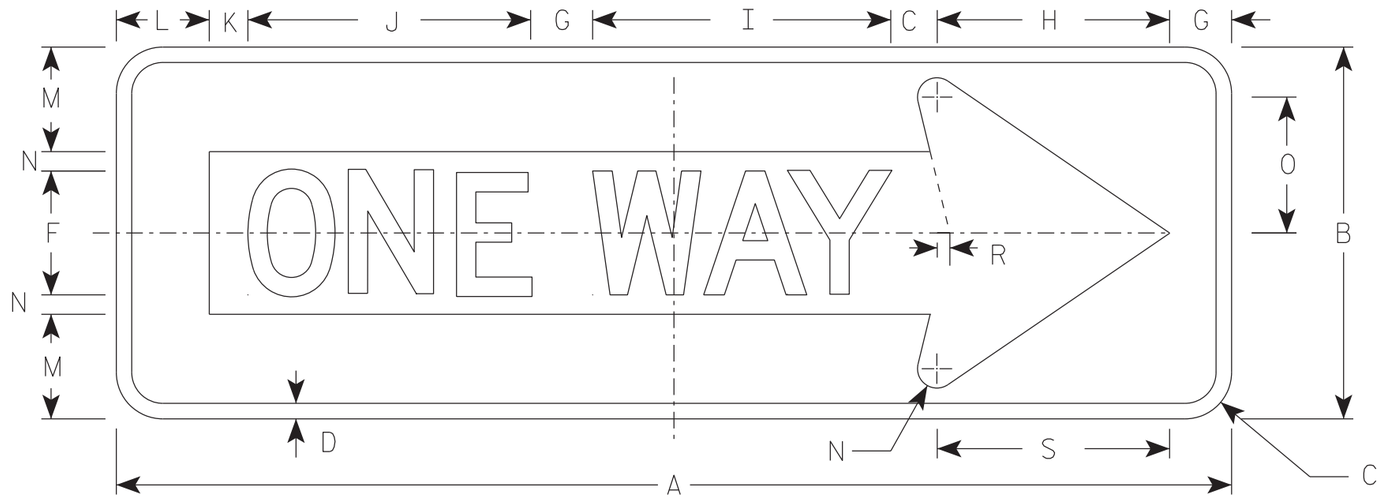
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 169 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R51A.DGN PLOT DATE : 17-DEC-2010 12:42 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.462457:1.000000

WISDOT/CADDS SHEET 42

7

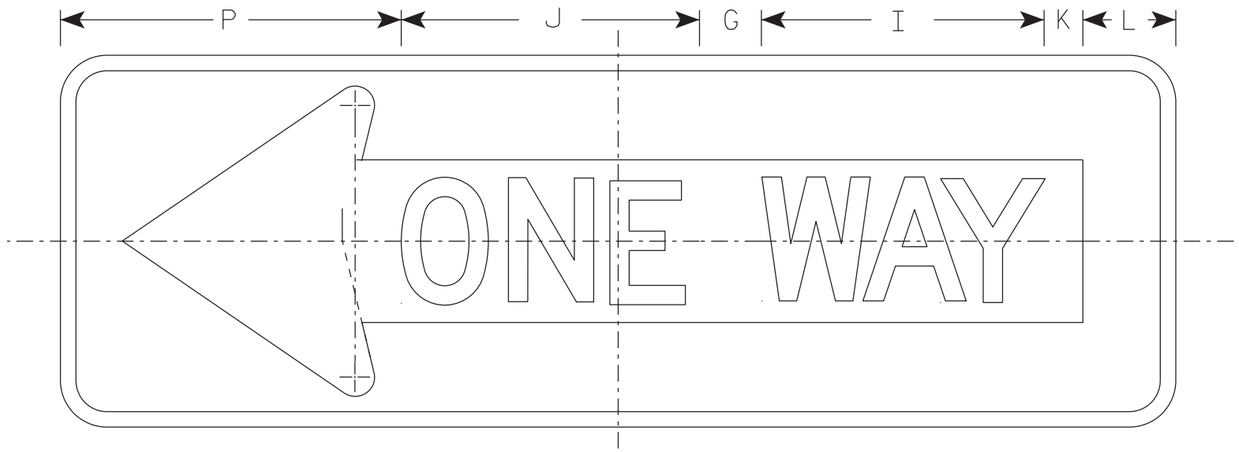
7



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D



R6-1L

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	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

STANDARD SIGN
R6-1 L & R

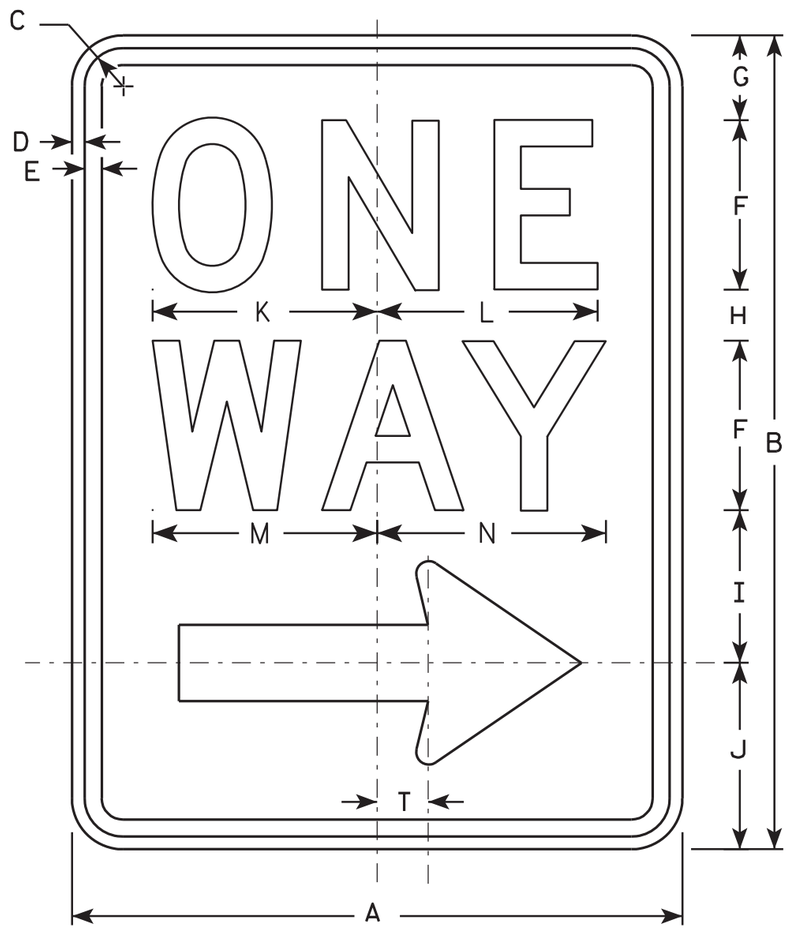
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 07/11/18 PLATE NO. R6-1.3

PROJECT NO:

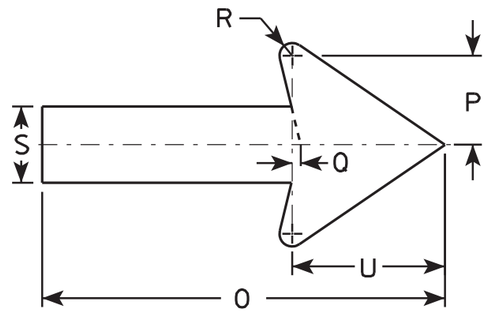
SHEET NO: 170 E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

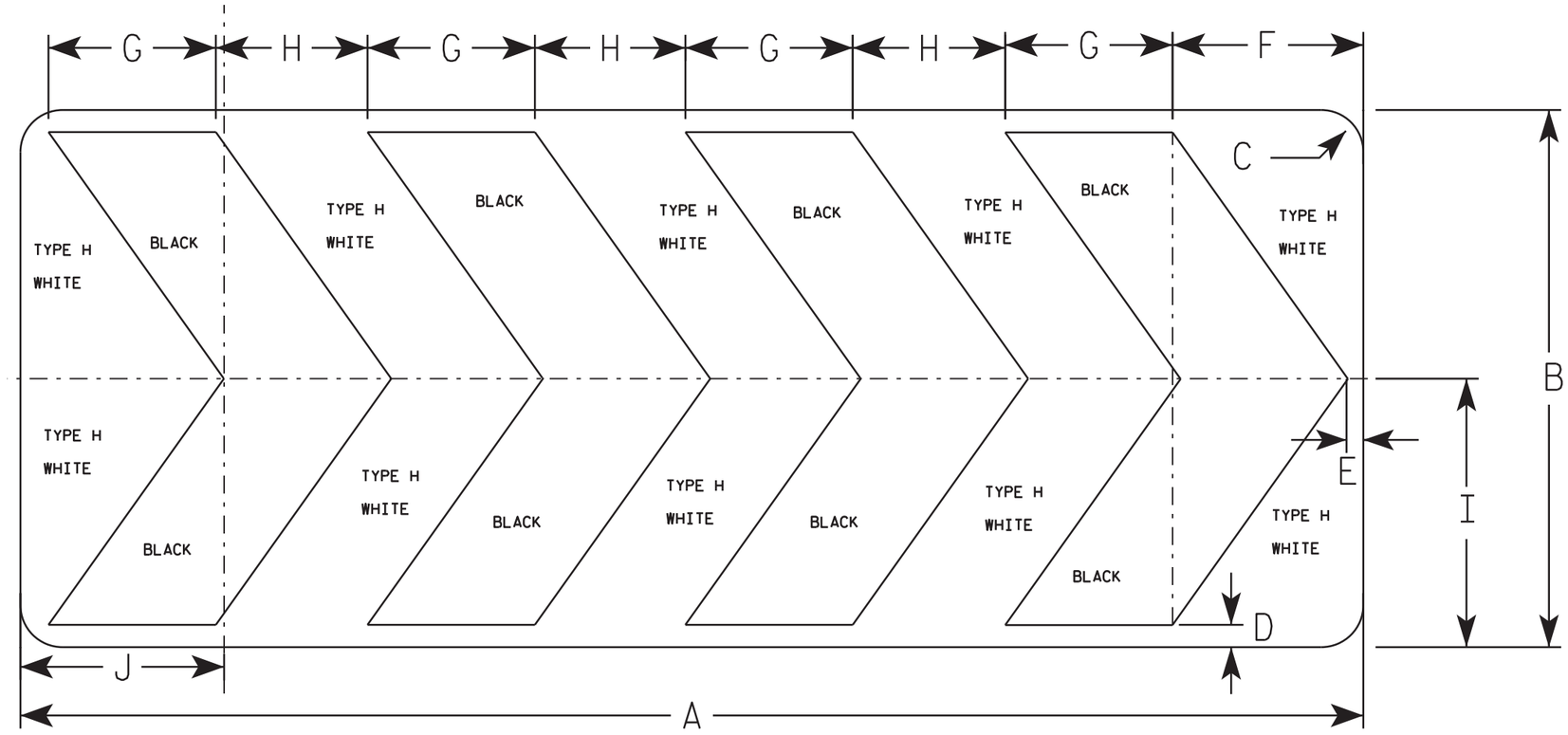
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 171	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   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.



R6-4B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/14 PLATE NO. R6-4.3

PROJECT NO:

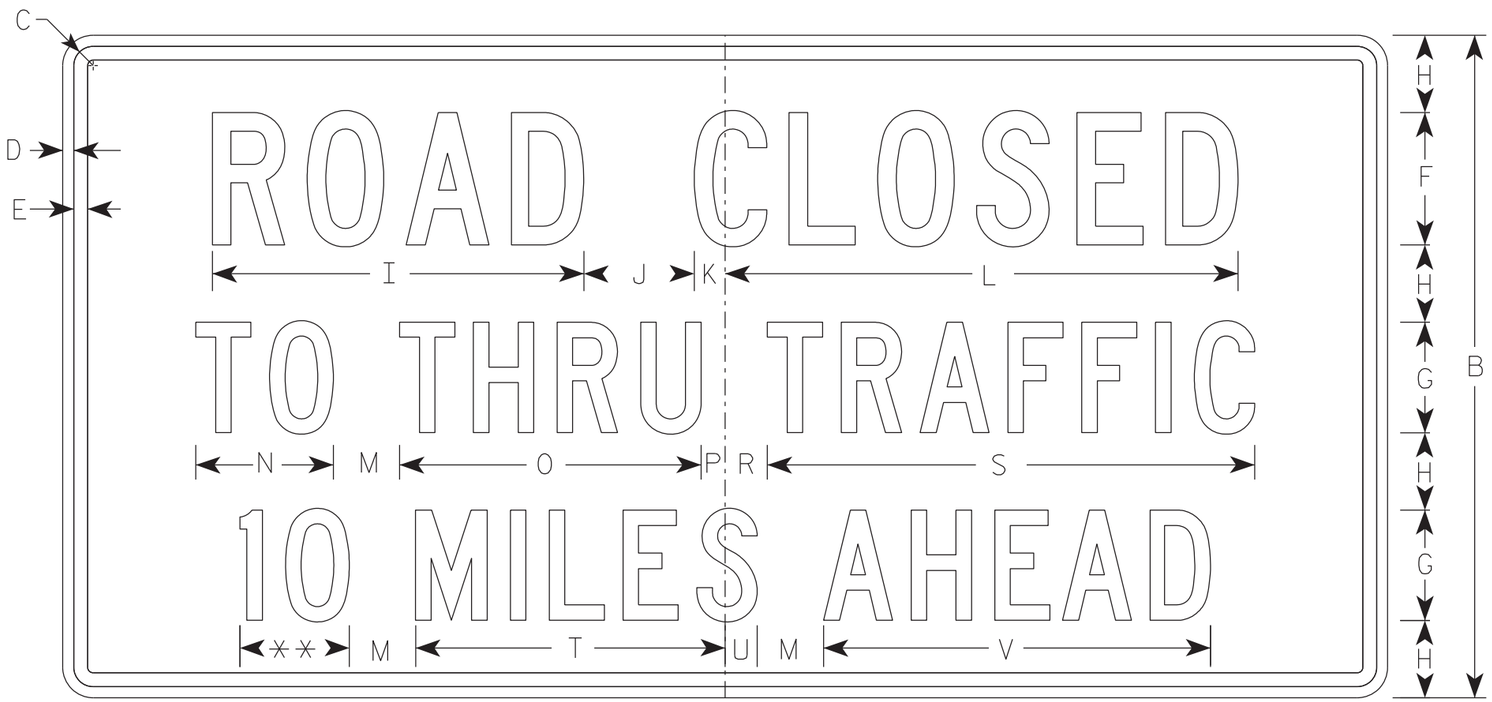
SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R64B.DGN PLOT DATE : 21-AUG-2014 15:01 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

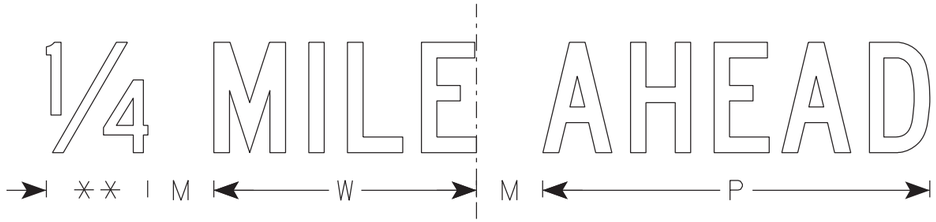
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



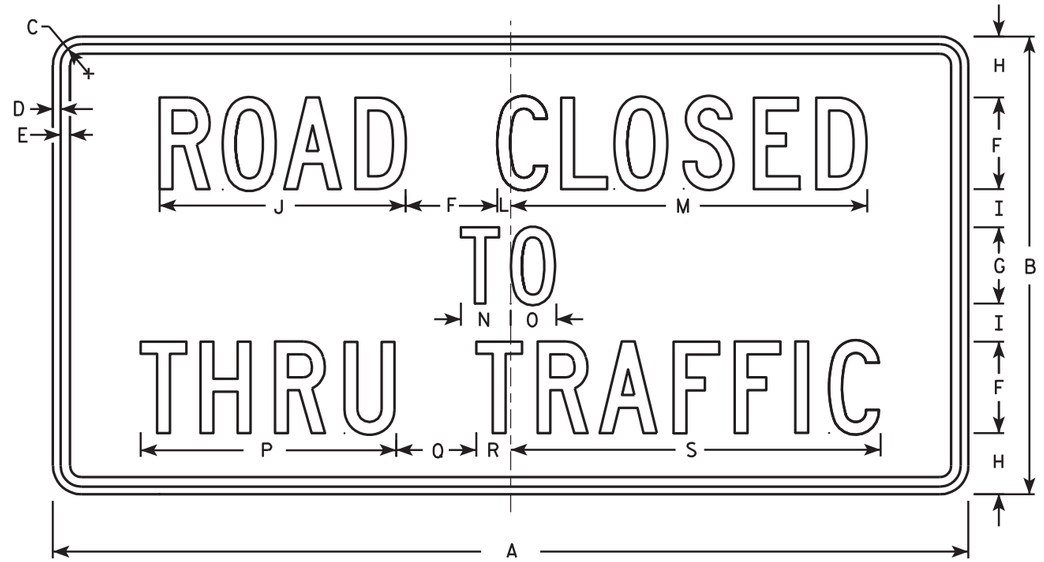
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/4	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 6/14/2021 PLATE NO. R11-3.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 173	E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

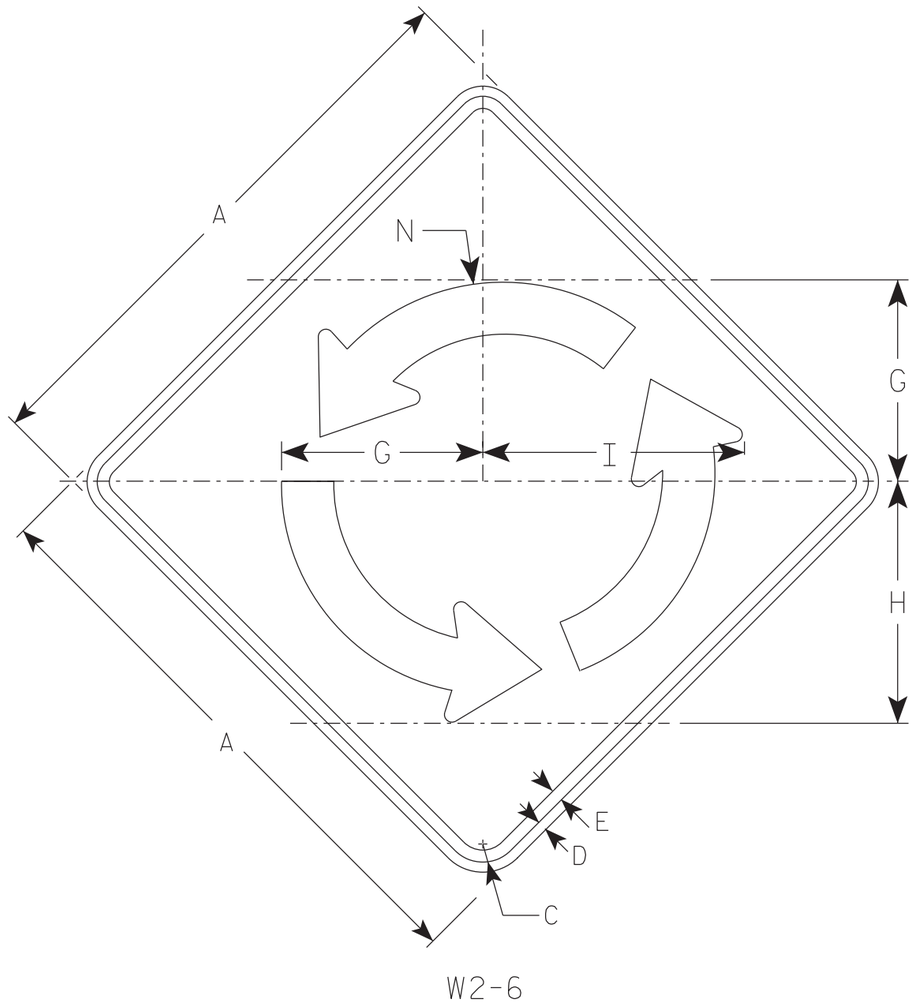
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 174 | E

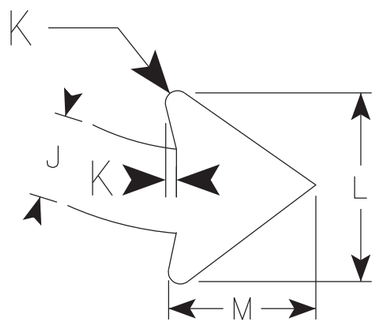


W2-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black

Arrow Detail



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Area sq. ft.
1																									
2S	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2	2 3/4	3/8	6	4 3/4	11 1/8											6.25
2M	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2	2 3/4	3/8	6	4 3/4	11 1/8											6.25
3	36		1 5/8	5/8	3/4		12 1/2	15	16 1/4	3 1/4	1/2	7 3/8	5 3/4	13 3/8											9.00
4	48		2 1/4	3/4	1		16 5/8	20	16 1/4	4 3/8	5/8	9 3/4	7 5/8	17 7/8											16.0
5																									

STANDARD SIGN
W2-6

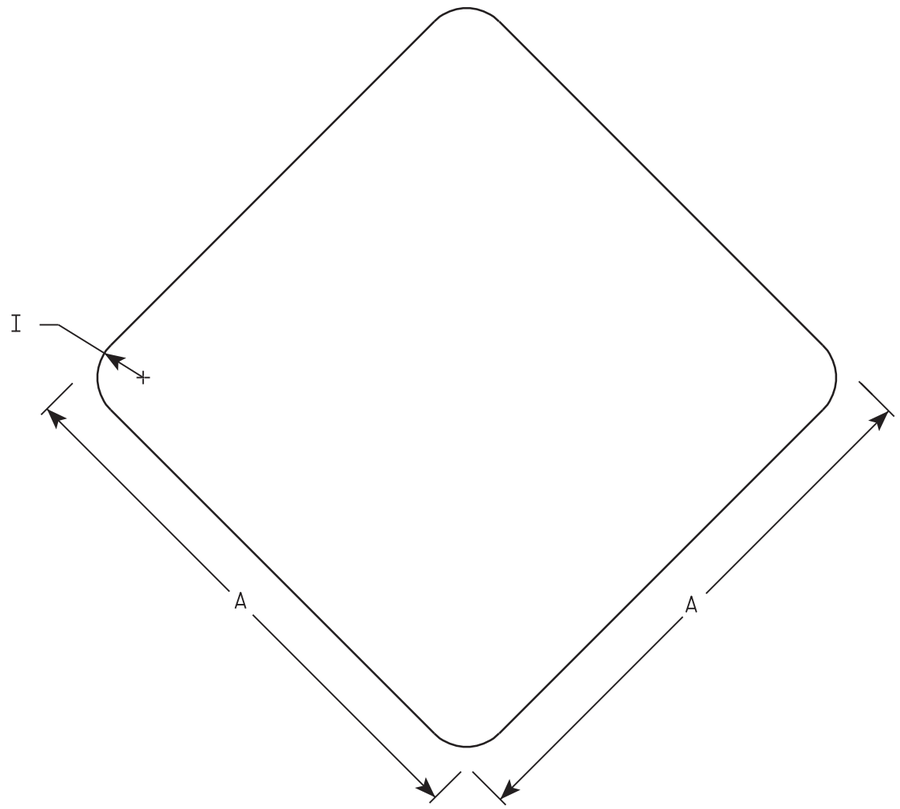
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/21 PLATE NO. W2-6.7

PROJECT NO:

SHEET NO: 175 E



W5-54

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

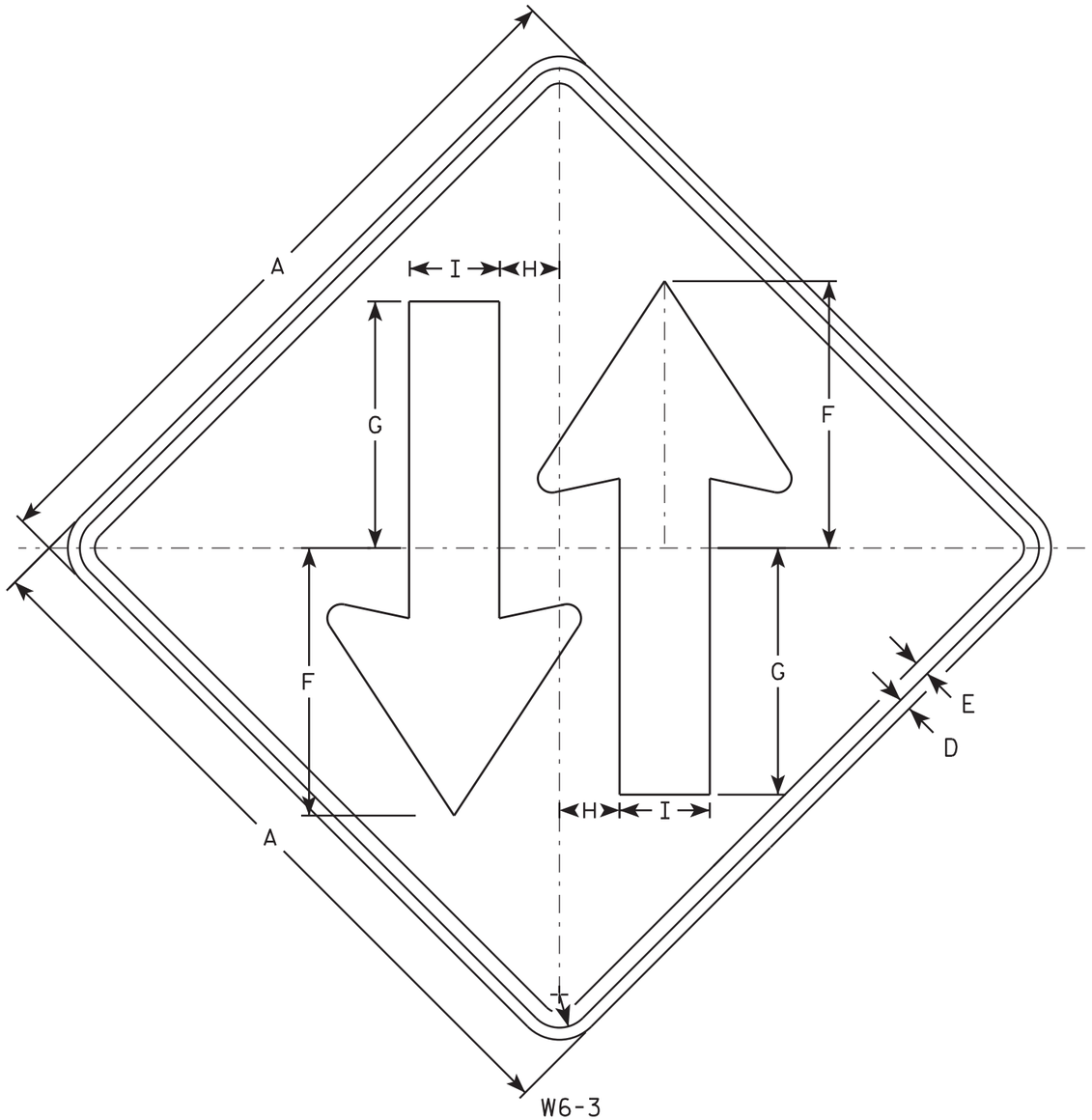
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/3/10 PLATE NO. W5-54.8

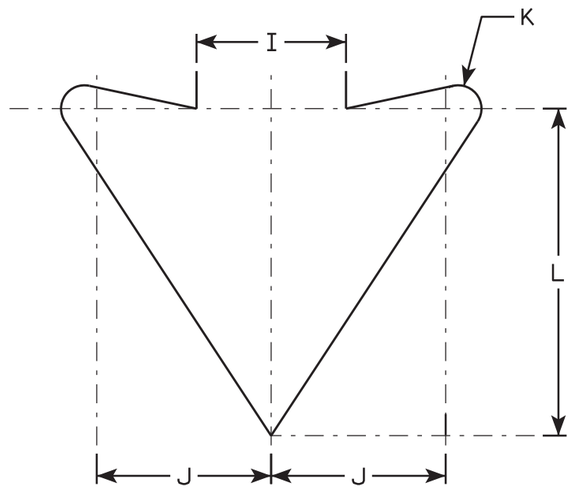
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 176 | E



W6-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

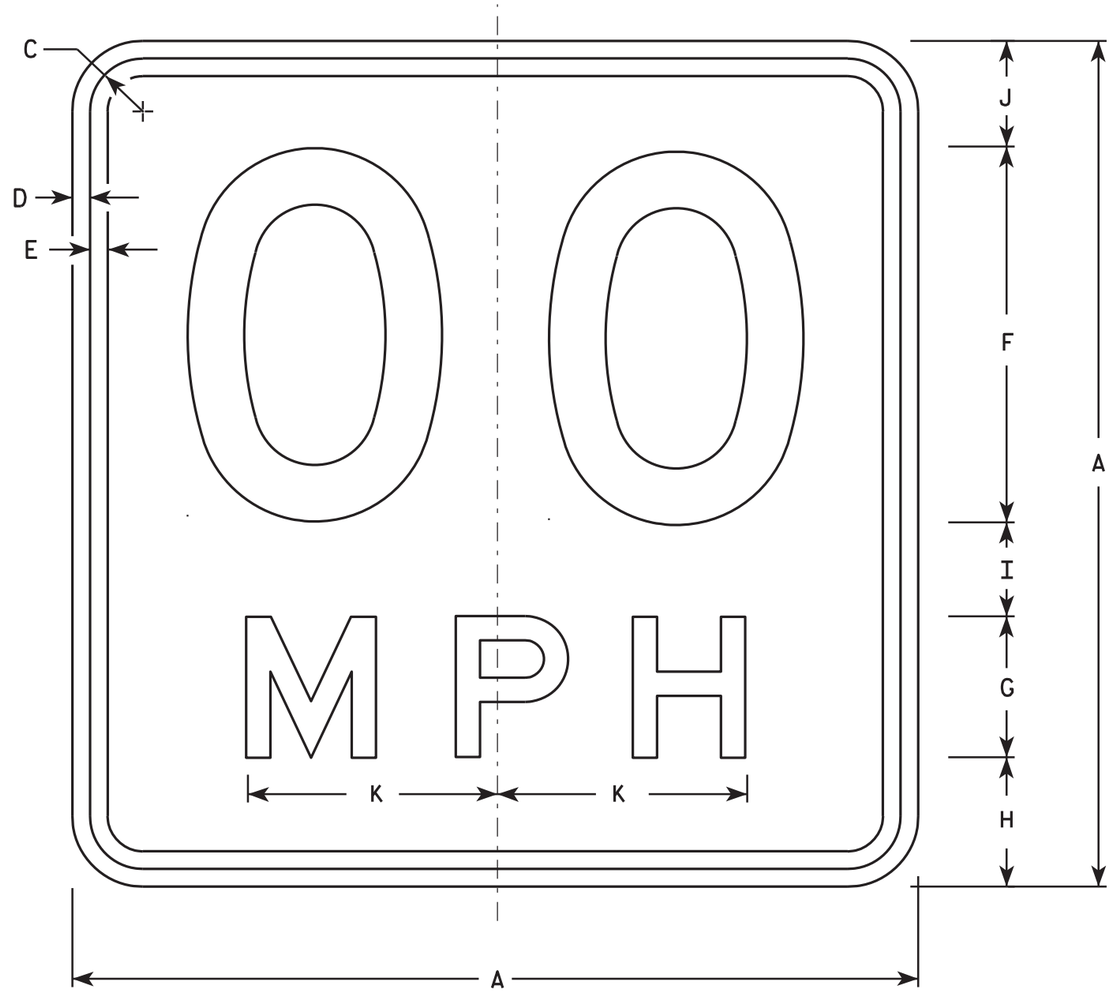
STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE 16-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 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

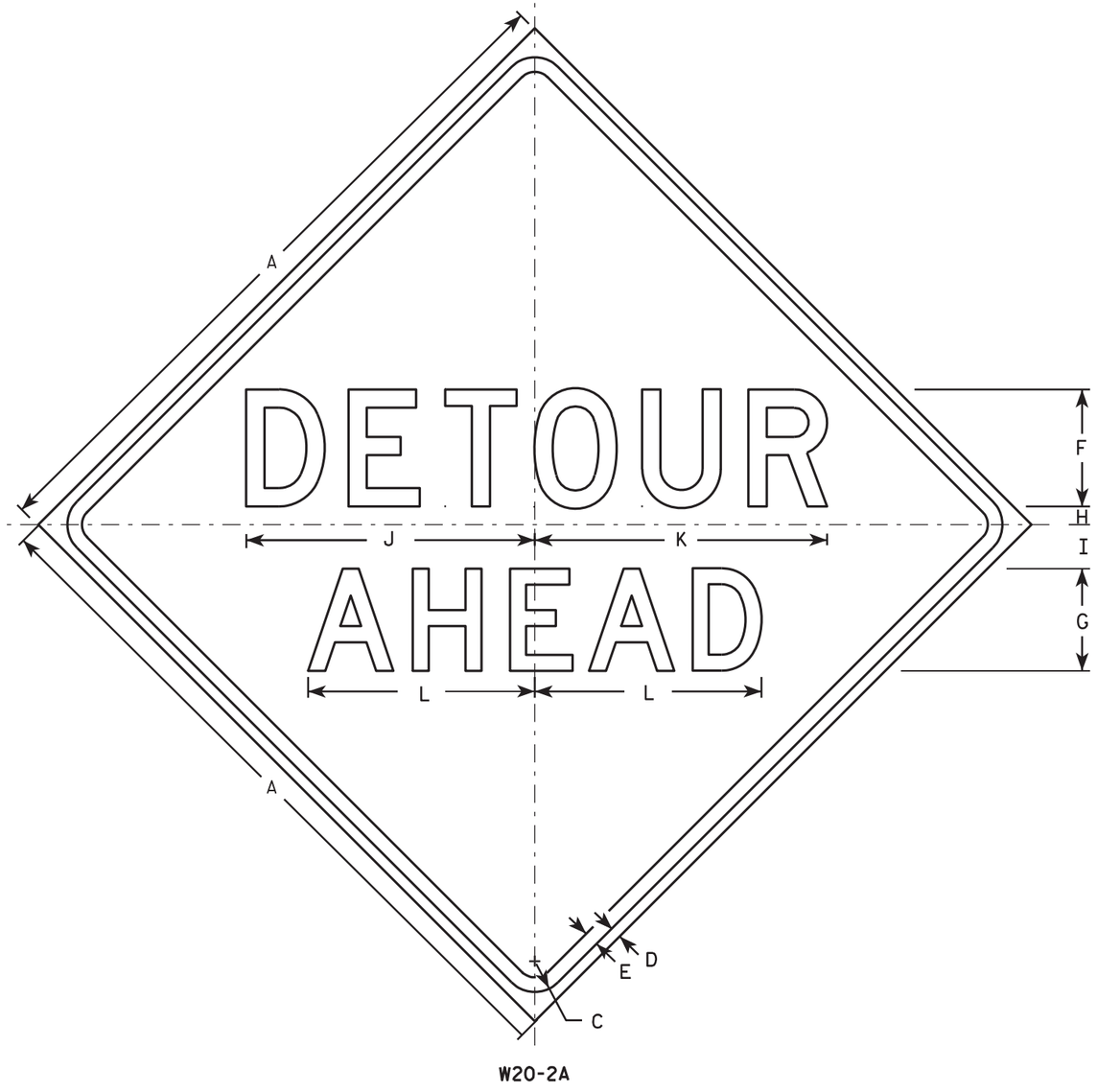
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

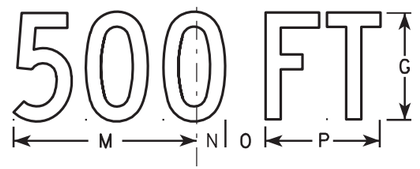
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

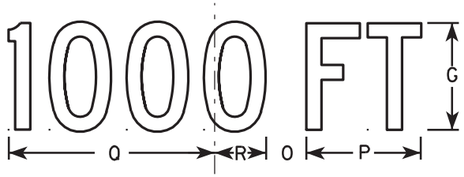
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 178 | E



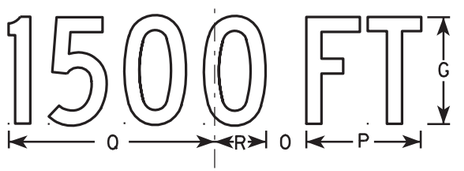
W20-2A



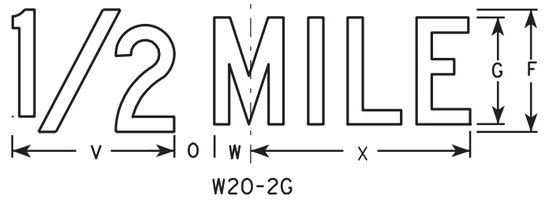
W20-2D



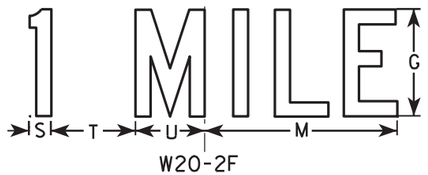
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

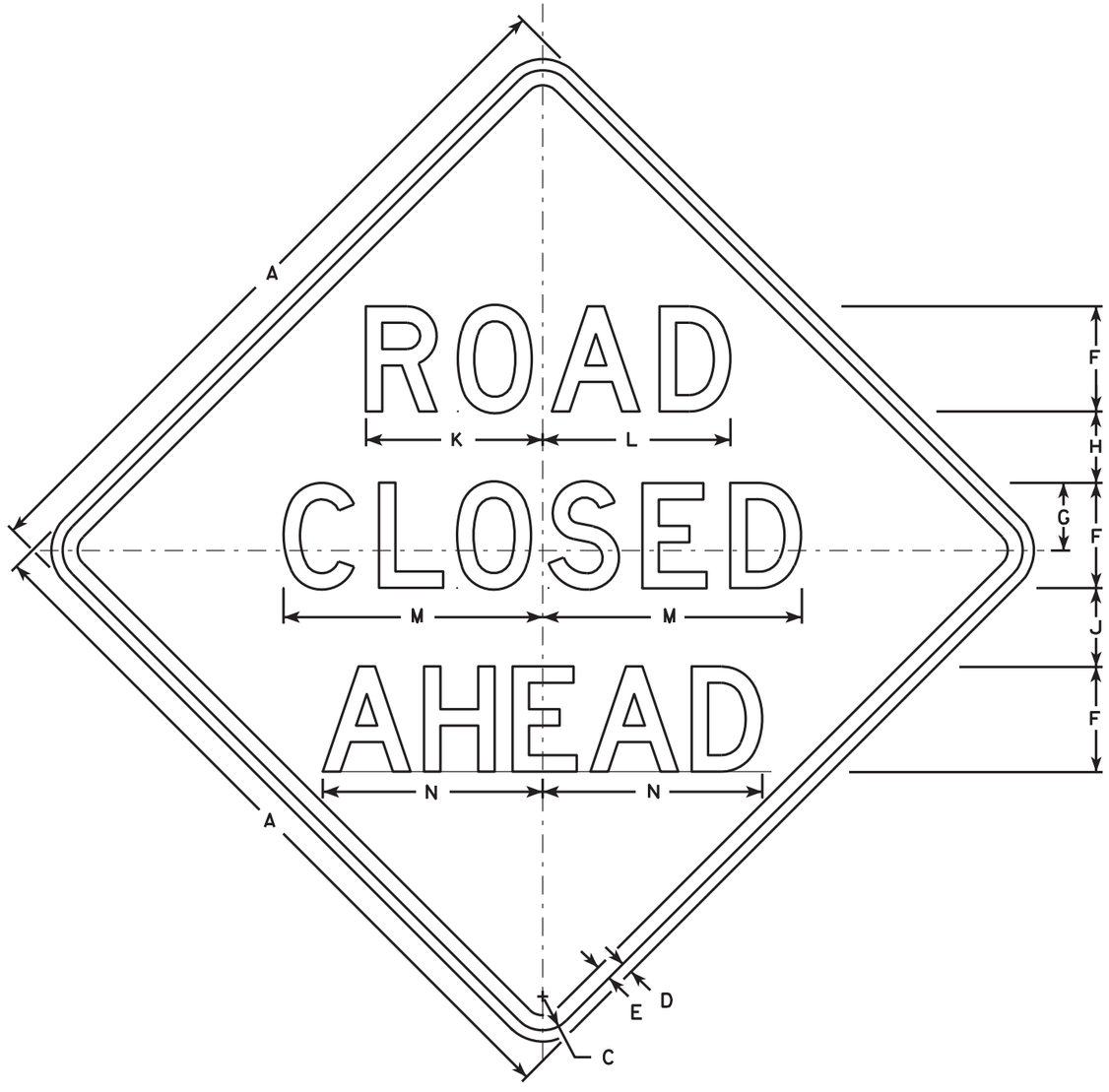
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

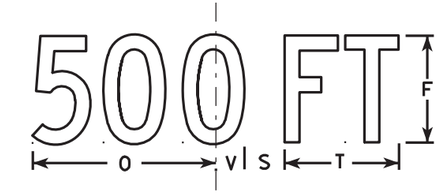
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

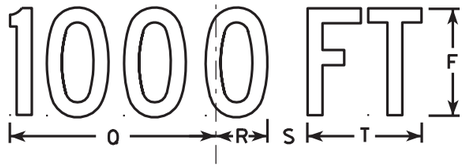
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 179	E



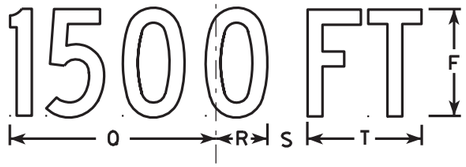
W20-3A



W20-3D



W20-3C



W20-3B

W20-3G

W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

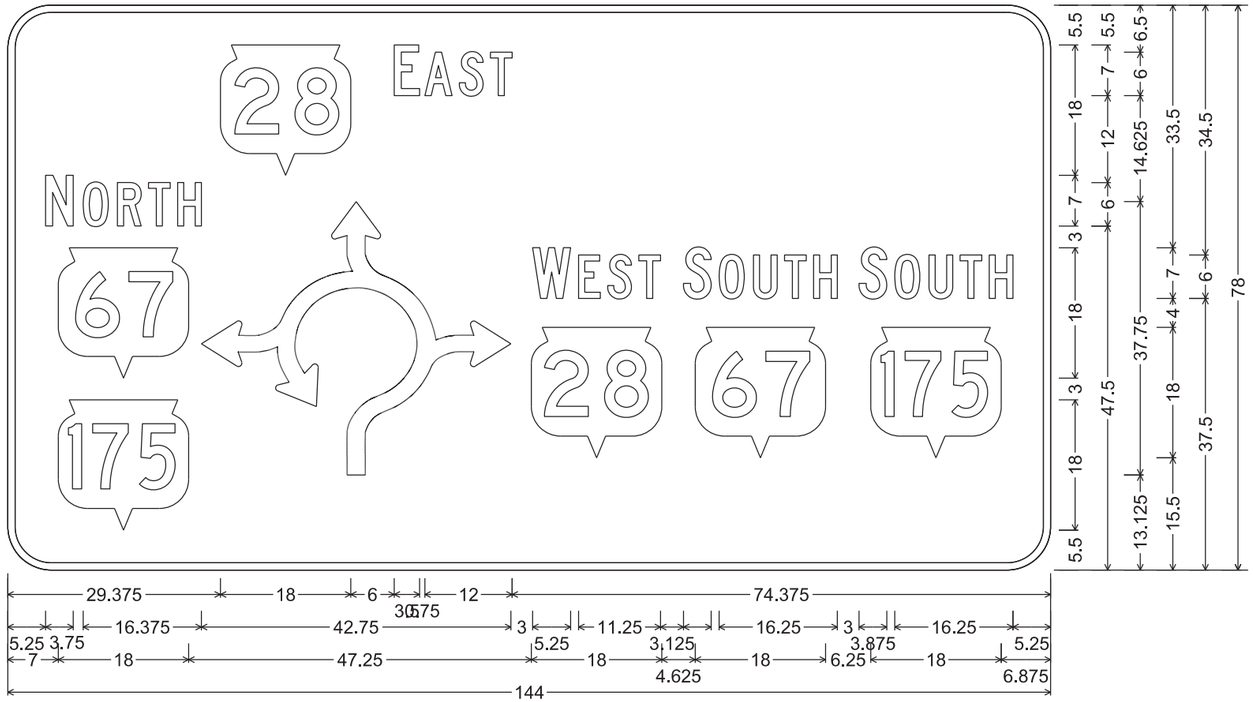
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

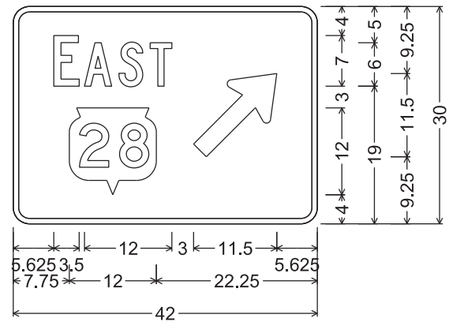
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 180 | E

NOTES

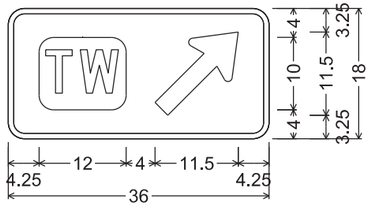
1. Signs are Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C



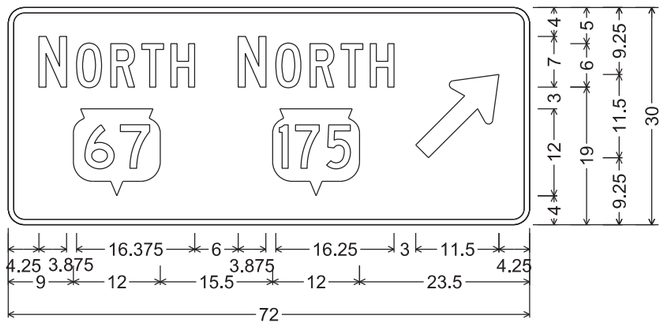
D1-62; 6.000" Radius, 1.000" Border



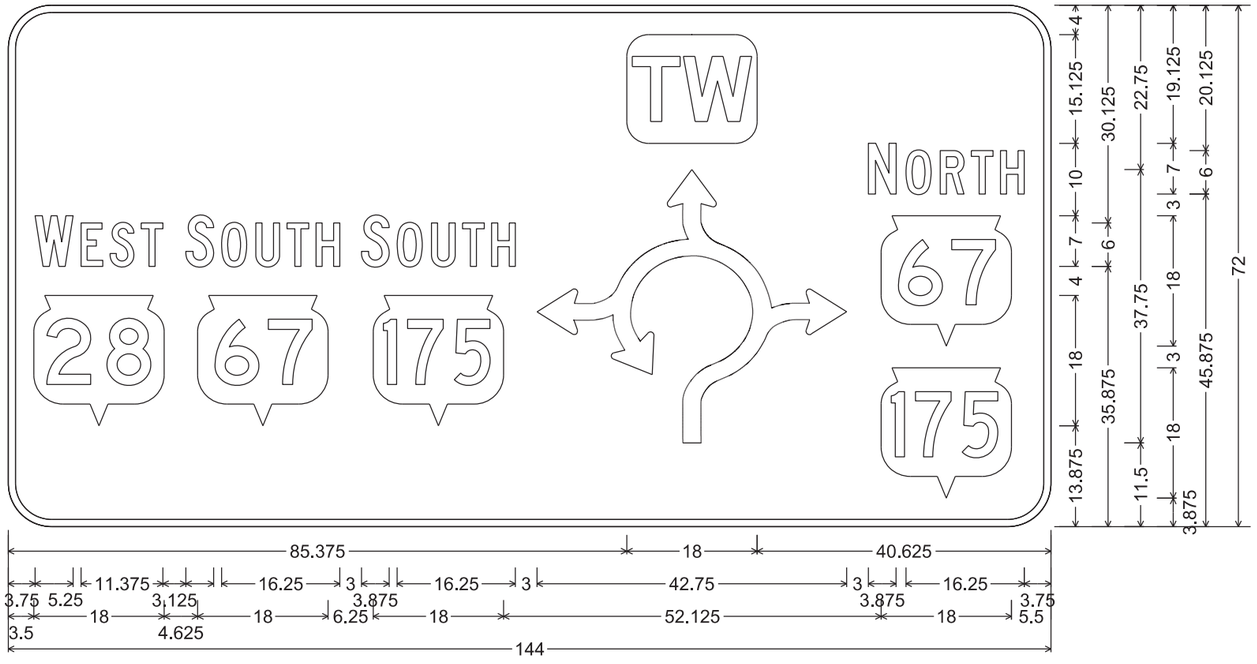
D1-1; 2.250" Radius, 0.750" Border



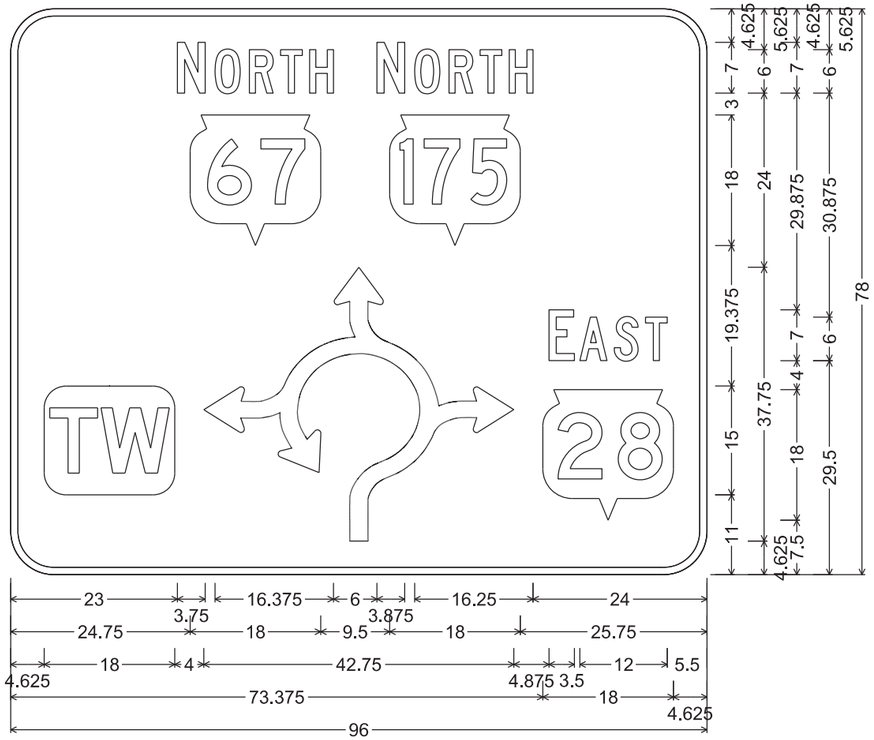
D1-1; 2.250" Radius, 0.750" Border



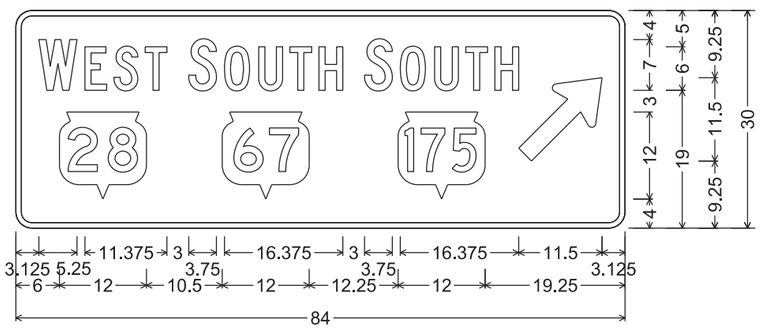
D1-2; 2.250" Radius, 0.750" Border



D1-62; 6.000" Radius, 1.000" Border



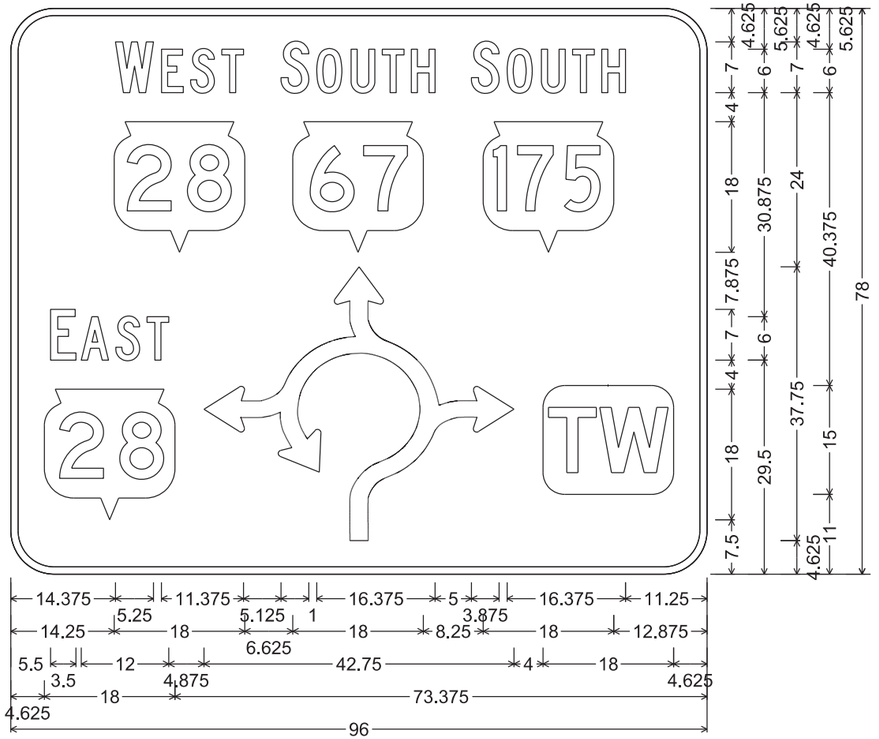
D1-62; 6.000" Radius, 1.000" Border



D1-3; 2.250" Radius, 0.750" Border

NOTES

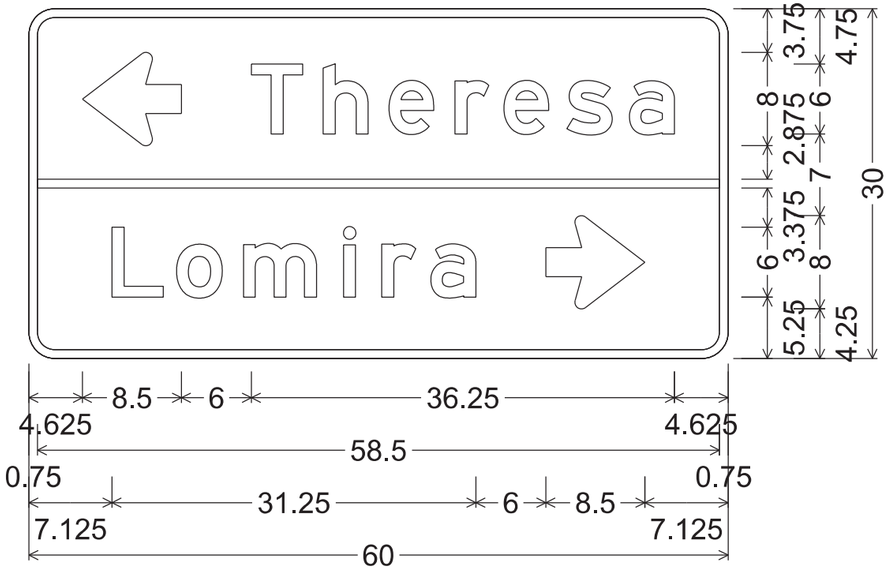
1. Signs are Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C



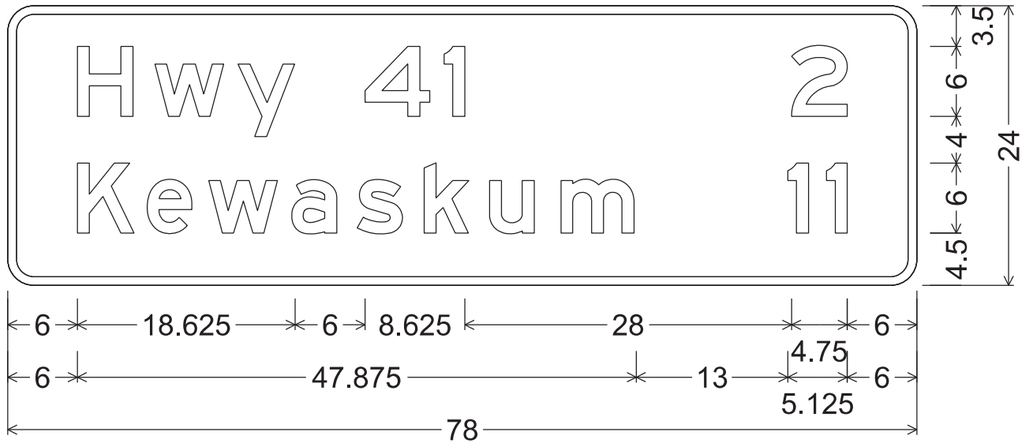
D1-62; 6.000" Radius, 1.000" Border

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E



D1-2; 2.250" Radius, 0.750" Border



D2-2; 2.250" Radius, 0.750" Border

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	205.0100 COMMON EXCAVATION (1) EBS EXCAVATION (3)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR (15) 1.40	MASS ORDINATE +/- (14)	WASTE	COMMENT
DIVISION 1											
STH-28_CI	20+00/24+08.394		751	0	570	181	195	273	-92	-92	
STH 28_EB EAST LEG	117+05/126+35		1,678	0	148	1,530	4,960	6,944	5,414	5,414	
STH-28 FB - WEST LEG	102+70/111+10		3,183	0	294	2,889	171	239	2,650	2,650	
STH-28_NB - NORTH LEG	215+75.245/222+25		2,230	0	299	1,931	32	45	1,886	1,886	
STH-28_NB - SOUTH LEG	204+75/210+19.58		1,522	0	213	1,309	324	454	855	855	
STH-28_NE - QUADRANT	40+00/44+91.058		2,083	0	201	1,882	501	701	1,181	1,181	
STH-28_NW - QUADRANT	30+00/35+37.256		3,621	0	98	3,523	190	266	3,257	3,257	
STH-28_SB - NORTH LEG	215+75/221+91		2,071	0	142	1,929	44	62	1,867	1,867	
STH-28_SB - SOUTH LEG	205+00/210+45.219		1,422	0	211	1,211	37	52	1,159	1,159	
STH-28_SE - QUADRANT	50+00/54+25		500	0	121	379	757	1,060	-681	-681	
STH-28_SW - QUADRANT	60+00/64+70.137		1,369	0	241	1,128	399	559	569	569	
STH-28_WB - EAST LEG	118+15/124+83.839		1,338	0	277	1,061	1	1	1,060	1,060	
STH-28_WB - WEST LEG	105+00/111+28		1,762	0	73	1,689	371	519	1,170	1,170	
UNDISTRIBUTED	-		-	1,175							
DIVISION 1 SUBTOTAL			23,530	1,175	2,888	20,642	7,982	11,175	9,467	9,467	
GRAND TOTAL			23,530	1,175	2,888	20,642	7,982	11,175	9,467	9,467	
TOTAL COMMON EXC			24,705								

NOTES:

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

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

(3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT BORROW MATERIAL. NOTE: THIS IS DESIGNERS CHOICE, CAN BE BACKFILLED WITH BORROW, OR CUT AS WELL.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

5) AVAILABLE MATERIAL – CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

(13) EXPANDED FILL FACTOR = X.6X

DEPENDING ON SELECTIONS: EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH - REDUCED EBS) * FILL FACTOR

OR EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED EBS) * FILL FACTOR

OR EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH) * FILL FACTOR

OR EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK) * FILL FACTOR

(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

(15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

DIVISION 1 - CIRCLE

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
20+00	2000.00	0.00	48.86	44.01	1.91	0	0	0	0	0	0
20+41	2041.00	41.00	66.63	44.01	2.30	88	67	3	88	3	18
20+50	2050.00	9.00	72.47	41.93	2.49	23	14	1	111	4	26
21+00	2100.00	50.00	54.13	26.51	24.69	117	63	25	228	29	55
21+50	2150.00	50.00	99.38	44.01	7.46	142	65	30	370	59	102
22+00	2200.00	50.00	47.52	37.14	15.88	136	75	22	506	81	141
22+15	2215.00	15.00	26.92	44.01	19.22	21	23	10	527	91	129
22+50	2250.00	35.00	14.51	44.01	14.39	27	57	22	554	113	77
23+00	2300.00	50.00	21.17	20.99	29.16	33	60	40	587	153	-10
23+15	2315.00	15.00	24.62	21.41	30.04	13	12	16	600	169	-5
23+35	2335.00	20.00	35.27	29.53	7.50	22	19	14	622	183	-16
23+50	2350.00	15.00	50.14	44.01	6.04	24	20	4	646	187	-16
23+54.991	2354.99	4.99	55.57	44.01	5.72	10	8	1	656	188	-15
24+00	2400.00	45.01	41.63	44.01	1.97	81	73	6	737	194	-13
24+08.394	2408.39	8.39	48.84	44.01	1.91	14	14	1	751	195	-14

Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [{CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ({FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR}]
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - {(FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR}]
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [{CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ({FILL - EXPANDED ROCK) * FILL FACTOR}]
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - {(FILL - EXPANDED ROCK) * FILL FACTOR}]

DIVISION 1 - CTH TW & STH 28 - FB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.00	NOTE 8
117+05	11705.00	0.00	4.52	0.00	238.74	0	0	0	0	0	0
117+26.254	11726.25	21.25	8.14	0.00	250.24	5	0	192	5	192	-187
117+50	11750.00	23.75	15.68	0.26	231.76	10	0	212	15	404	-389
118+00	11800.00	50.00	43.61	1.04	157.89	55	1	361	70	765	-696
118+50	11850.00	50.00	37.14	1.35	271.05	75	2	397	145	1,162	-1,020
119+00	11900.00	50.00	35.83	1.77	318.40	68	3	546	213	1,708	-1,501
119+10.484	11910.48	10.48	36.01	1.77	315.85	14	1	123	227	1,831	-1,611
119+50	11950.00	39.52	37.34	2.24	296.72	54	3	448	281	2,279	-2,008
120+00	12000.00	50.00	37.40	2.71	299.67	69	5	552	350	2,831	-2,496
120+50	12050.00	50.00	37.08	3.33	276.84	69	6	534	419	3,365	-2,967
121+00	12100.00	50.00	40.16	3.65	221.16	72	6	461	491	3,826	-3,362
121+50	12150.00	50.00	41.57	4.06	176.85	76	7	369	567	4,195	-3,662
121+76.06	12176.06	26.06	41.34	4.38	157.70	40	4	161	607	4,356	-3,787
122+00	12200.00	23.94	41.08	4.79	136.15	37	4	130	644	4,486	-3,884
122+50	12250.00	50.00	43.44	5.00	74.99	78	9	295	722	4,681	-4,010
123+00	12300.00	50.00	42.35	5.52	60.32	79	10	125	801	4,806	-4,066
123+50	12350.00	50.00	43.06	6.09	34.94	79	11	88	880	4,894	-4,086
124+00	12400.00	50.00	42.67	6.35	16.28	79	12	47	959	4,941	-4,066
124+18.37	12418.37	18.37	42.58	6.67	10.93	29	4	9	988	4,950	-4,050
124+41.637	12441.64	23.27	43.76	6.93	2.75	37	6	6	1,025	4,956	-4,025
124+50	12450.00	8.36	44.97	6.93	1.84	14	2	1	1,039	4,957	-4,014
124+71.704	12471.70	21.70	48.74	7.08	0.12	38	6	1	1,077	4,958	3,983
125+00	12500.00	28.30	92.84	7.29	1.59	74	8	1	1,151	4,959	-3,918
125+25.37	12525.37	25.37	95.12	7.40	0.90	88	7	1	1,239	4,960	-3,838
125+50	12550.00	24.63	101.01	7.45	0.00	89	7	0	1,328	4,960	-3,756
125+78.37	12578.37	28.37	109.02	7.50	0.00	110	8	0	1,438	4,960	3,654
126+00	12600.00	21.63	116.67	7.55	0.00	90	6	0	1,528	4,960	-3,570
126+35	12635.00	35.00	114.97	7.68	0.00	150	10	0	1,678	4,960	-3,430

DIVISION 1 - CTH TW & STH 28 - FB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.00	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
102+70	10270.00	0.00	97.36	5.42	1.59	0	0	0	0	0	0
103+00	10300.00	30.00	109.23	5.42	0.00	115	6	1	115	1	108
103+13	10313.00	13.00	117.46	5.42	0.19	55	3	0	170	1	160
103+50	10350.00	37.00	103.95	5.42	4.38	152	7	3	322	4	302
103+72.824	10372.82	22.82	93.58	5.42	8.57	83	5	5	405	9	375
104+00	10400.00	27.18	89.32	5.63	21.26	92	6	15	497	24	446
104+36.411	10436.41	36.41	88.70	5.83	31.16	120	8	35	617	59	523
104+50	10450.00	13.59	88.59	6.04	34.07	45	3	16	662	75	549
105+00	10500.00	50.00	91.36	6.46	32.94	167	12	62	829	137	642
105+20	10520.00	20.00	42.56	6.67	23.66	50	5	21	879	158	666
105+50	10550.00	30.00	48.52	7.08	0.00	51	8	13	930	171	696
106+00	10600.00	50.00	64.50	7.71	0.00	105	14	0	1,035	171	787
106+50	10650.00	50.00	77.66	8.54	0.00	132	15	0	1,167	171	904
107+00	10700.00	50.00	95.90	9.58	0.00	161	17	0	1,328	171	1,048
107+50	10750.00	50.00	96.98	10.83	0.00	179	19	0	1,507	171	1,208
108+00	10800.00	50.00	101.57	12.08	0.00	184	21	0	1,691	171	1,371
108+22	10822.00	22.00	104.74	14.83	0.00	84	11	0	1,775	171	1,444
108+50	10850.00	28.00	127.65	13.13	0.00	120	14	0	1,895	171	1,550
109+00	10900.00	50.00	154.05	12.29	0.00	261	24	0	2,156	171	1,787
109+30	10930.00	30.00	190.97	11.88	0.00	192	13	0	2,348	171	1,966
109+50	10950.00	20.00	173.34	12.17	0.00	135	9	0	2,483	171	2,092
110+00	11000.00	50.00	128.19	12.17	0.00	279	23	0	2,762	171	2,348
110+50	11050.00	50.00	101.49	12.17	0.00	213	23	0	2,975	171	2,538
111+00	11100.00	50.00	88.25	12.17	0.51	176	23	0	3,151	171	2,691
111+10	11110.00	10.00	84.53	12.17	0.99	32	5	0	3,183	171	2,718

DIVISION 1 - STH 28-67-175 - NB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
215+75.145	21575.15	0.00	103.94	12.24	35.06	0	0	0	0	0	0
216+00	21600.00	24.85	101.02	13.44	21.51	94	12	21	94	21	61
216+50	21650.00	50.00	109.71	14.22	0.00	195	26	11	289	32	219
217+00	21700.00	50.00	112.63	14.95	0.00	206	27	0	495	32	398
217+50	21750.00	50.00	107.56	15.16	0.00	204	28	0	699	32	574
218+00	21800.00	50.00	95.17	14.38	0.00	188	27	0	887	32	735
218+50	21850.00	50.00	91.37	13.44	0.00	173	26	0	1,060	32	882
219+00	21900.00	50.00	86.05	12.50	0.00	164	24	0	1,224	32	1,022
219+50	21950.00	50.00	83.16	12.08	0.00	157	23	0	1,381	32	1,156
220+00	22000.00	50.00	83.77	10.78	0.00	155	21	0	1,536	32	1,290
220+50	22050.00	50.00	86.95	10.00	0.00	158	19	0	1,694	32	1,429
220+63	22063.00	13.00	87.02	12.55	0.00	42	5	0	1,736	32	1,466
221+00	22100.00	37.00	82.01	12.40	0.00	116	17	0	1,852	32	1,565
221+50	22150.00	50.00	61.93	8.28	0.00	133	19	0	1,985	32	1,679
221+90	22190.00	40.00	58.68	7.66	0.00	89	12	0	2,074	32	1,756
221+91	22191.00	1.00	123.88	7.50	0.00	3	0	0	2,077	32	1,759
222+00	22200.00	9.00	123.00	7.50	0.00	41	3	0	2,118	32	1,797
222+25	22225.00	25.00	119.67	15.10	0.00	112	10	0	2,230	32	1,899

DIVISION 1 - CTH TW & STH 28 - WB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
105+00	10500.00	0.00	52.18	5.46	2.58	0	0	0	0	0	0
105+30	10530.00	30.00	68.79	7.46	0.00	67	7	1	67	1	59
105+50	10550.00	20.00	53.18	5.13	2.30	45	5	1	112	2	98
106+00	10600.00	50.00	48.66	4.46	2.90	94	9	5	206	7	178
106+05.596	10605.60	5.60	48.86	4.38	2.54	10	1	1	216	8	186
106+50	10650.00	44.40	50.35	3.67	2.83	82	7	4	298	12	257
106+88.86	10688.86	38.86	50.94	2.88	4.01	73	5	5	371	17	320
107+00	10700.00	11.14	51.00	2.63	4.30	21	1	2	392	19	338
107+11.191	10711.19	11.19	52.64	2.38	4.35	21	1	2	413	21	356
107+50	10750.00	38.81	65.20	1.50	3.95	85	3	6	498	27	432
107+55.86	10755.86	5.86	68.50	1.38	3.76	15	0	1	513	28	446
108+00	10800.00	44.14	107.48	0.42	3.75	144	1	6	657	34	583
108+09.86	10809.86	9.86	119.17	0.17	5.01	41	0	2	698	36	622
108+50	10850.00	40.14	161.75	6.50	0.00	209	5	4	907	40	822
108+61	10861.00	11.00	166.92	29.50	0.00	67	7	0	974	40	882
109+00	10900.00	39.00	202.53	0.00	16.18	267	21	12	1,241	52	1,116
109+30	10930.00	30.00	229.89	0.00	20.39	240	0	20	1,481	72	1,336
109+50	10950.00	20.00	149.33	0.00	19.00	140	0	15	1,621	87	1,461
110+00	11000.00	50.00	1.88	0.00	27.54	140	0	43	1,761	130	1,558
110+23.25	11023.25	23.25	0.30	0.00	39.13	1	0	29	1,762	159	1,530
110+50	11050.00	26.75	0.44	0.00	35.92	0	0	37	1,762	196	1,493
111+00	11100.00	50.00	0.00	0.00	69.60	0	0	98	1,762	294	1,395
111+28	11128.00	28.00	0.00	0.00	78.61	0	0	77	1,762	371	1,318

DIVISION 1 - STH 28-67-175 - NB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
204+75	20475.00	0.00	121.88	17.40	0.00	0	0	0	0	0	0
204+99	20499.00	24.00	137.13	17.45	1.49	115	15	1	115	1	99
205+00	20500.00	1.00	83.15	8.65	1.60	4	0	0	119	1	103
205+33	20533.00	33.00	99.49	8.54	0.00	112	11	1	231	2	203
205+50	20550.00	17.00	75.06	8.54	5.06	55	5	2	286	4	251
206+00	20600.00	50.00	59.02	8.54	4.02	124	16	8	410	12	351
206+50	20650.00	50.00	59.02	8.54	21.81	109	16	24	519	36	420
206+60	20660.00	10.00	59.19	8.54	23.95	22	3	8	541	44	431
207+00	20700.00	40.00	62.05	8.54	16.67	90	13	30	631	74	478
207+50	20750.00	50.00	66.46	8.54	20.44	119	16	34	750	108	547
208+00	20800.00	50.00	72.39	9.22	25.52	129	16	43	879	151	617
208+50	20850.00	50.00	80.81	11.30	29.74	142	19	51	1,021	202	689
209+00	20900.00	50.00	80.01	12.24	35.78	149	22	61	1,170	263	755
209+50	20950.00	50.00	79.75	12.50	12.32	148	23	45	1,318	308	835
210+00	21000.00	50.00	79.34	15.99	4.13	147	26	15	1,465	323	941
210+19.58	21019.58	19.58	77.89	15.94	0.00	57	12	1	1,522	324	985

DIVISION 1 - NF CURB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
40+00	4000.00	0.00	26.24	14.27	1.37	0	0	0	0	0	0
40+50	4050.00	50.00	18.53	15.00	3.82	41	27	5	41	5	9
41+00	4100.00	50.00	10.39	15.42	6.66	27	28	10	68	15	-2
41+50	4150.00	50.00	2.95	16.35	37.61	12	29	41	80	56	-60
42+00	4200.00	50.00	49.96	19.69	73.38	49	33	103	129	159	-147
42+18	4218.00	18.00	71.41	18.18	91.47	40	13	55	169	214	-175
42+50	4250.00	32.00	107.01	0.00	89.90	106	11	107	275	321	-187
43+00	4300.00	50.00	245.22	2.60	4.52	326	2	87	601	408	50
43+05	4305.00	5.00	296.74	10.42	2.01	50	1	1	651	409	98
43+07	4307.00	2.00	313.37	13.02	1.57	23	1	0	674	409	120
43+50	4350.00	43.00	283.43	5.42	4.54	475	15	5	1,149	414	575
44+00	4400.00	50.00	219.73	5.57	17.02	466	10	20	1,615	434	1,011
44+50	4450.00	50.00	112.86	9.53	14.60	308	14	29	1,923	463	1,276
44+91.058	4491.06	41.06	97.76	12.24	35.01	160	17	38	2,083	501	1,381

DIVISION 1 - NW CURB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT		FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.00	
						NOTE 1		NOTE 3	NOTE 1		NOTE 8
30+00	3000.00	0.00	191.42	8.02	30.77	0		0	0	0	0
30+50	3050.00	50.00	89.90	11.56	0.58	260		29	260	29	213
31+00	3100.00	50.00	80.79	15.73	0.00	158		1	418	30	345
31+50	3150.00	50.00	93.88	18.42	3.68	162		3	580	33	472
31+80	3180.00	30.00	115.15	14.69	29.39	116		18	696	51	552
32+00	3200.00	20.00	78.76	0.00	41.74	72		26	768	77	593
32+50	3250.00	50.00	367.04	0.00	1.93	413		40	1,181	117	966
32+65	3265.00	15.00	534.28	0.00	0.00	250		1	1,431	118	1,215
33+00	3300.00	35.00	275.05	0.00	0.00	525		0	1,956	118	1,740
33+50	3350.00	50.00	392.02	0.00	0.00	618		0	2,574	118	2,358
33+60	3360.00	10.00	379.48	0.00	0.00	143		0	2,717	118	2,501
33+76	3376.00	16.00	349.56	0.00	0.00	216		0	2,933	118	2,717
34+00	3400.00	24.00	233.23	0.00	0.00	259		0	3,192	118	2,976
34+50	3450.00	50.00	103.25	0.00	0.00	312		0	3,504	118	3,288
35+00	3500.00	50.00	13.46	0.00	10.76	108		10	3,612	128	3,386
35+37	3537.00	37.00	0.00	0.00	77.87	9		61	3,621	189	3,334
35+37.256	3537.26	0.26	0.00	0.00	77.88	0		1	3,621	190	3,333

DIVISION 1 - STH 28-67-175 - SB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.00	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
215+75	21575.00	0.00	159.39	7.81	35.82	0	0	0	0	0	0
215+80	21580.00	5.00	153.79	7.55	44.24	29	1	7	29	7	21
216+00	21600.00	20.00	88.61	6.61	20.82	90	5	24	119	31	82
216+27.367	21627.37	27.37	67.01	5.63	0.00	79	6	11	198	42	144
216+50	21650.00	22.63	91.83	5.05	0.00	67	4	0	265	42	207
216+76.272	21676.27	26.27	112.23	4.74	0.00	99	5	0	364	42	301
217+00	21700.00	23.73	129.41	4.17	0.00	106	4	0	470	42	403
217+25.177	21725.18	25.18	135.60	4.01	0.00	124	4	0	594	42	523
217+50	21750.00	24.82	117.41	4.43	0.00	116	4	0	710	42	635
218+00	21800.00	50.00	147.60	5.31	0.00	245	9	0	955	42	871
218+50	21850.00	50.00	85.40	6.25	0.00	216	11	0	1,171	42	1,076
219+00	21900.00	50.00	83.89	7.19	0.00	157	12	0	1,328	42	1,221
219+50	21950.00	50.00	65.82	8.65	0.00	139	15	0	1,467	42	1,345
220+00	22000.00	50.00	68.37	5.47	1.26	124	13	1	1,591	43	1,455
220+50	22050.00	50.00	66.30	6.30	0.00	125	11	1	1,716	44	1,568
220+72.126	22072.13	22.13	67.41	6.72	0.00	55	5	0	1,771	44	1,618
221+00	22100.00	27.87	69.40	7.19	0.00	71	7	0	1,842	44	1,682
221+31.907	22131.91	31.91	68.42	7.55	0.00	81	9	0	1,923	44	1,754
221+50	22150.00	18.09	69.02	7.71	0.00	46	5	0	1,969	44	1,795
221+91	22191.00	41.00	65.35	7.81	0.00	102	12	0	2,071	44	1,885

DIVISION 1 - STH 28-67-175 - SB

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.00	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
205+00	20500.00	0.00	56.17	0.06	0	0	0	0	0	0
205+35	20535.00	35.00	86.70	0.00	93	23	0	93	0	70
205+50	20550.00	15.00	86.35	0.00	48	12	0	141	0	106
206+00	20600.00	50.00	76.48	0.00	151	23	0	292	0	234
206+27	20627.00	27.00	99.81	0.00	88	11	0	380	0	311
206+50	20650.00	23.00	78.34	0.01	76	11	0	456	0	376
206+60	20660.00	10.00	66.76	5.29	27	4	1	483	1	398
207+00	20700.00	40.00	68.43	0.17	100	13	4	583	5	481
207+50	20750.00	50.00	74.68	0.01	133	16	0	716	5	598
208+00	20800.00	50.00	74.15	0.18	138	16	0	854	5	720
208+50	20850.00	50.00	77.15	0.00	140	16	0	994	5	844
208+55.219	20855.22	5.22	77.00	0.00	15	2	0	1,009	5	857
209+00	20900.00	44.78	71.30	0.32	123	15	0	1,132	5	965
209+50	20950.00	50.00	58.94	3.74	121	17	4	1,253	9	1,065
210+00	21000.00	50.00	47.78	7.01	99	17	10	1,352	19	1,137
210+45.219	21045.22	45.22	36.02	14.07	70	15	18	1,422	37	1,174

DIVISION 1 - SE CURB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUST		CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.00	
						NOTE 2	NOTE 3	NOTE 1		NOTE 8
50+00	5000.00	0.00	77.89	8.70	0.00	0	0	0	0	0
50+50	5050.00	50.00	45.72	12.66	34.94	20	32	114	32	62
51+00	5100.00	50.00	37.29	14.58	44.79	25	74	191	106	40
51+16.8	5116.80	16.80	35.30	15.73	48.68	9	29	214	135	25
51+50	5150.00	33.20	32.78	20.73	48.87	22	60	256	195	-15
51+61	5161.00	11.00	32.95	23.96	46.74	9	19	269	214	-30
52+00	5200.00	39.00	19.46	0.00	9.54	17	41	307	255	-50
52+50	5250.00	50.00	33.66	0.00	7.23	0	16	356	271	-17
52+74	5274.00	24.00	33.92	13.65	43.27	6	22	386	293	-15
53+00	5300.00	26.00	34.89	4.38	41.50	9	41	419	334	-32
53+50	5350.00	50.00	23.98	0.00	42.92	4	78	474	412	-59
54+00	5400.00	50.00	2.42	0.00	197.86	0	223	498	635	-258
54+15	5415.00	15.00	4.43	0.00	241.02	0	122	500	757	-378

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PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	EARTHWORK DATA	SHEET 191	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090101 - EARTHWORK\090101_EW.DWG
LAYOUT NAME - 08

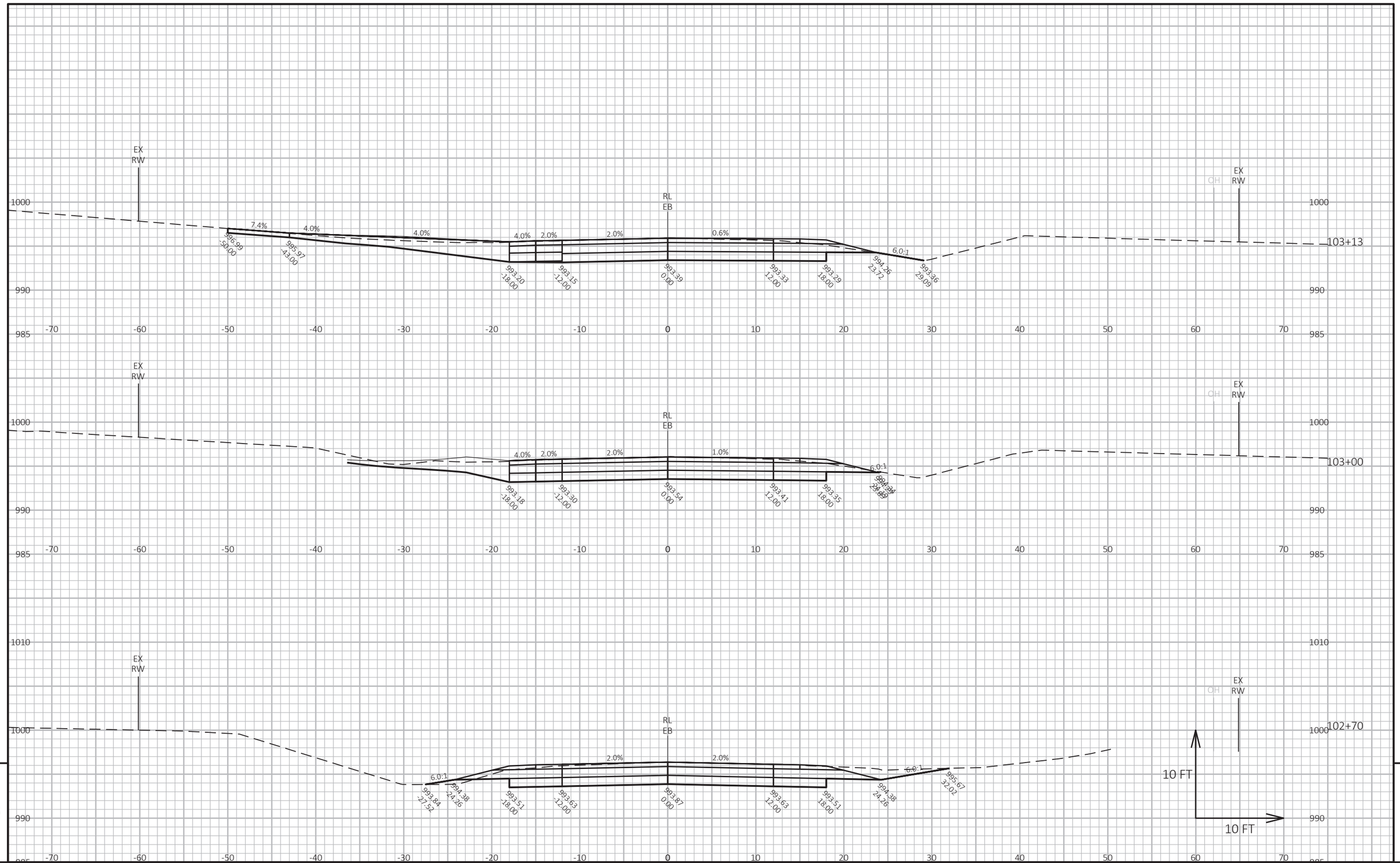
PLOT DATE : 11/1/2021 3:32 PM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1" = 1'

DIVISION 1 - SW CURB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
60+00	6000.00	0.00	83.24	15.26	1.03	0	0	0	0	0	0
60+50	6050.00	50.00	84.21	15.94	0.09	155	29	1	155	1	125
61+00	6100.00	50.00	95.80	19.06	0.00	167	32	0	322	1	260
61+50	6150.00	50.00	78.91	15.94	2.27	162	32	2	484	3	388
61+81.889	6181.89	31.89	91.23	18.02	8.71	100	20	6	584	9	462
62+00	6200.00	18.11	106.30	19.79	9.16	66	13	6	650	15	509
62+40	6240.00	40.00	136.54	33.23	17.85	180	39	20	830	35	630
62+50	6250.00	10.00	50.30	21.25	21.77	35	10	7	865	42	648
62+53	6253.00	3.00	44.60	18.65	22.27	5	2	2	870	44	649
63+00	6300.00	47.00	48.88	2.50	56.12	81	18	68	951	112	644
63+10	6310.00	10.00	57.47	5.89	78.22	20	2	25	971	137	637
63+50	6350.00	40.00	110.28	6.77	63.64	124	9	105	1,095	242	647
64+00	6400.00	50.00	60.39	7.40	36.13	158	13	92	1,253	334	700
64+50	6450.00	50.00	35.41	8.75	20.29	89	15	52	1,342	386	722
64+70.137	6470.14	20.14	36.02	8.85	14.07	27	7	13	1,369	399	729

DIVISION 1 - CTH EW & STH 28 - WB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
118+15	11815.00	0.00	26.26	14.32	1.37	0	0	0	0	0	0
118+50	11850.00	35.00	29.65	13.96	0.41	36	18	1	36	1	17
118+72.769	11872.77	22.77	37.23	13.85	0.00	28	12	0	64	1	33
119+00	11900.00	27.23	43.67	13.44	0.00	41	14	0	105	1	60
119+24.912	11924.91	24.91	52.99	13.44	0.00	45	12	0	150	1	93
119+50	11950.00	25.09	61.43	13.18	0.00	53	12	0	203	1	134
120+00	12000.00	50.00	61.34	12.55	0.00	114	24	0	317	1	224
120+50	12050.00	50.00	59.88	11.98	0.00	112	23	0	429	1	313
121+00	12100.00	50.00	64.00	11.72	0.00	115	22	0	544	1	406
121+50	12150.00	50.00	60.46	11.09	0.00	115	21	0	659	1	500
122+00	12200.00	50.00	58.47	10.57	0.00	110	20	0	769	1	590
122+04.375	12204.38	4.38	57.64	10.57	0.00	9	2	0	778	1	597
122+50	12250.00	45.62	58.13	10.31	0.00	98	18	0	876	1	677
123+00	12300.00	50.00	54.66	9.64	0.00	104	18	0	980	1	763
123+50	12350.00	50.00	54.53	9.27	0.00	101	18	0	1,081	1	846
124+00	12400.00	50.00	54.29	8.85	0.00	101	17	0	1,182	1	930
124+50	12450.00	50.00	49.97	8.33	0.00	97	16	0	1,279	1	1,011
124+83	12483.00	33.00	45.61	8.18	0.41	58	10	0	1,337	1	1,059
124+83.839	12483.84	0.84	45.49	8.18	0.46	1	0	0	1,338	1	1,060



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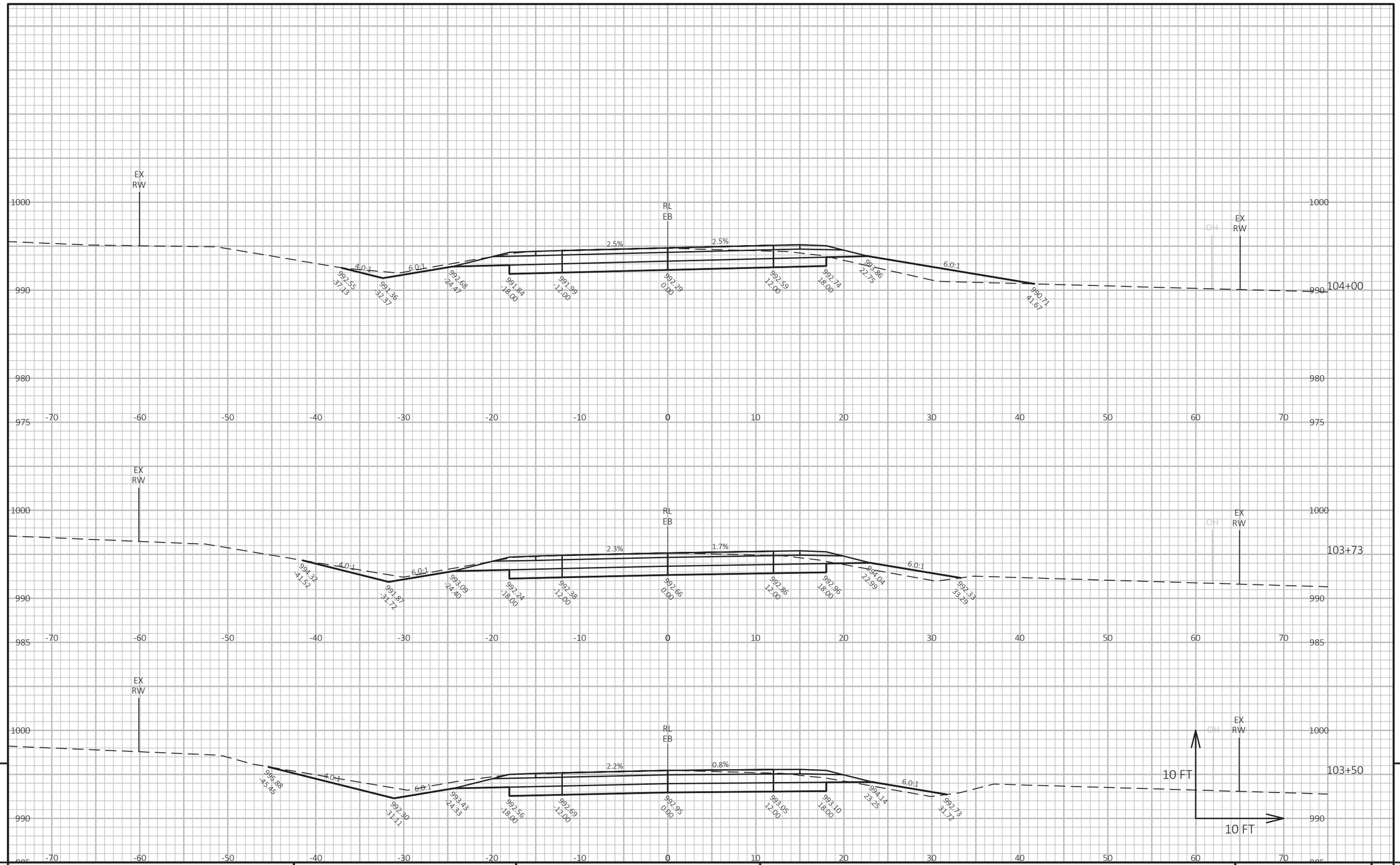
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - WEST LEG	SHEET 193	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB1

PLOT DATE : 8/13/2021 9:55 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - WEST LEG	SHEET 194 E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB2

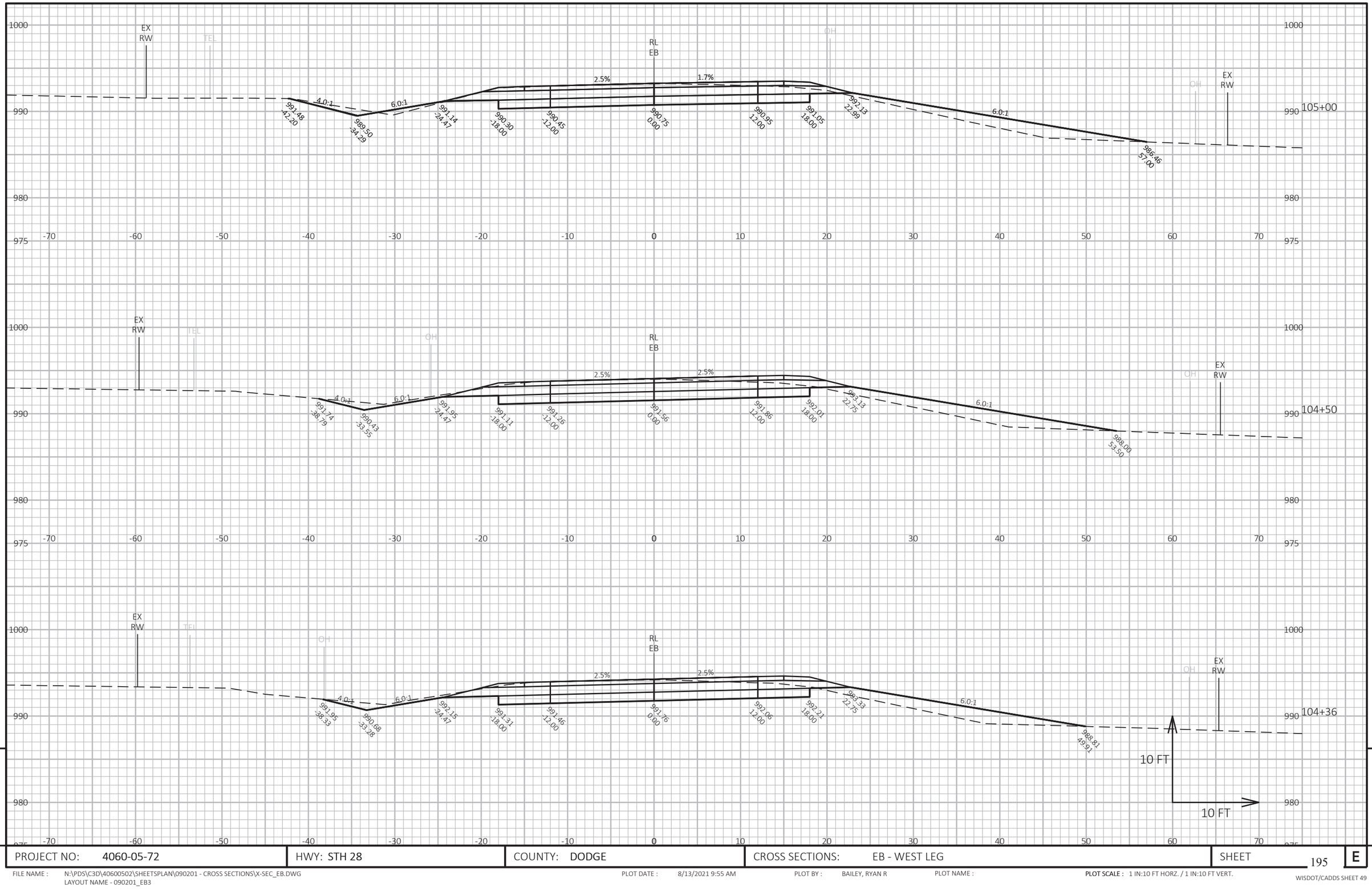
PLOT DATE : 8/13/2021 9:55 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - WEST LEG	SHEET 195	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB3

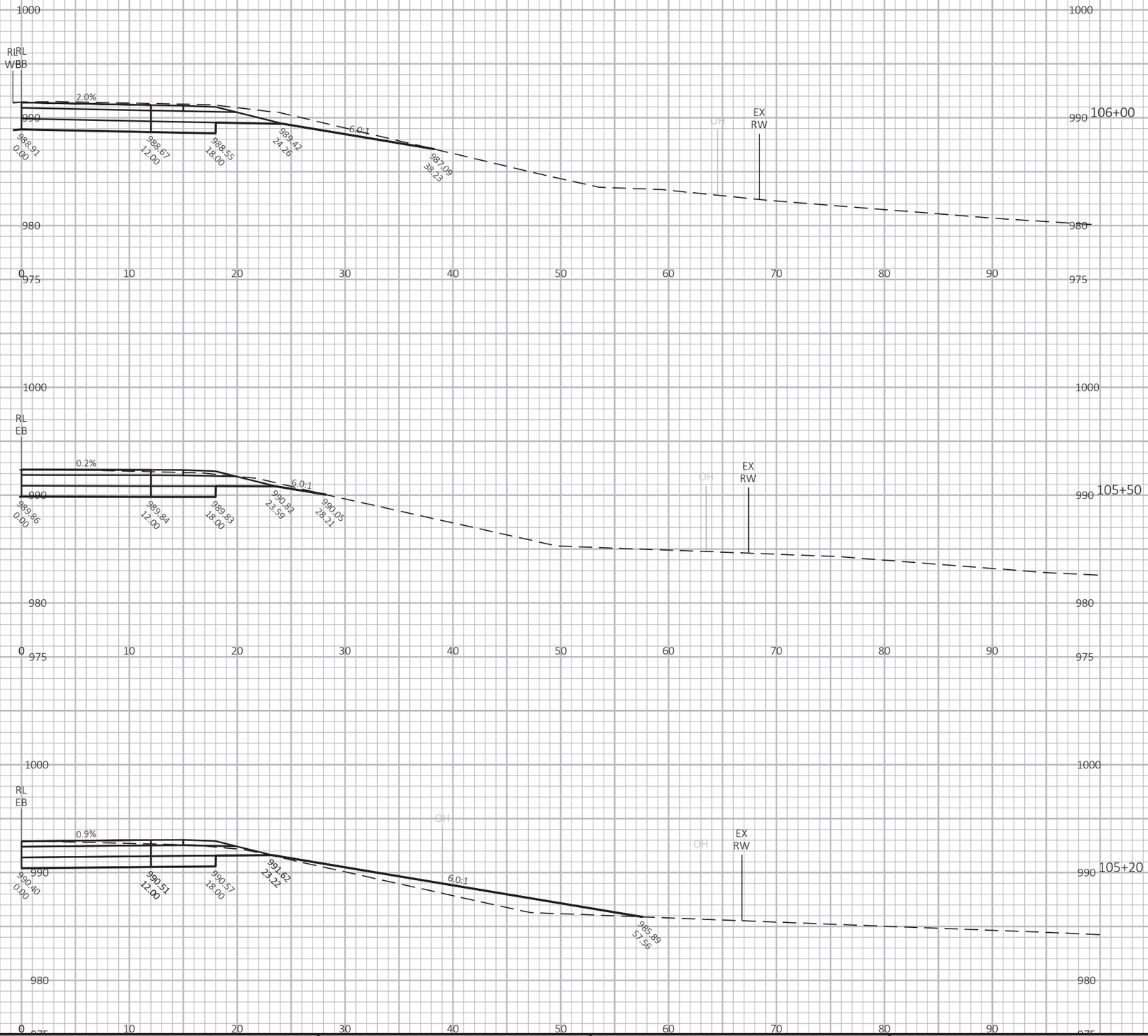
PLOT DATE : 8/13/2021 9:55 AM

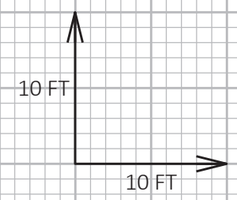
PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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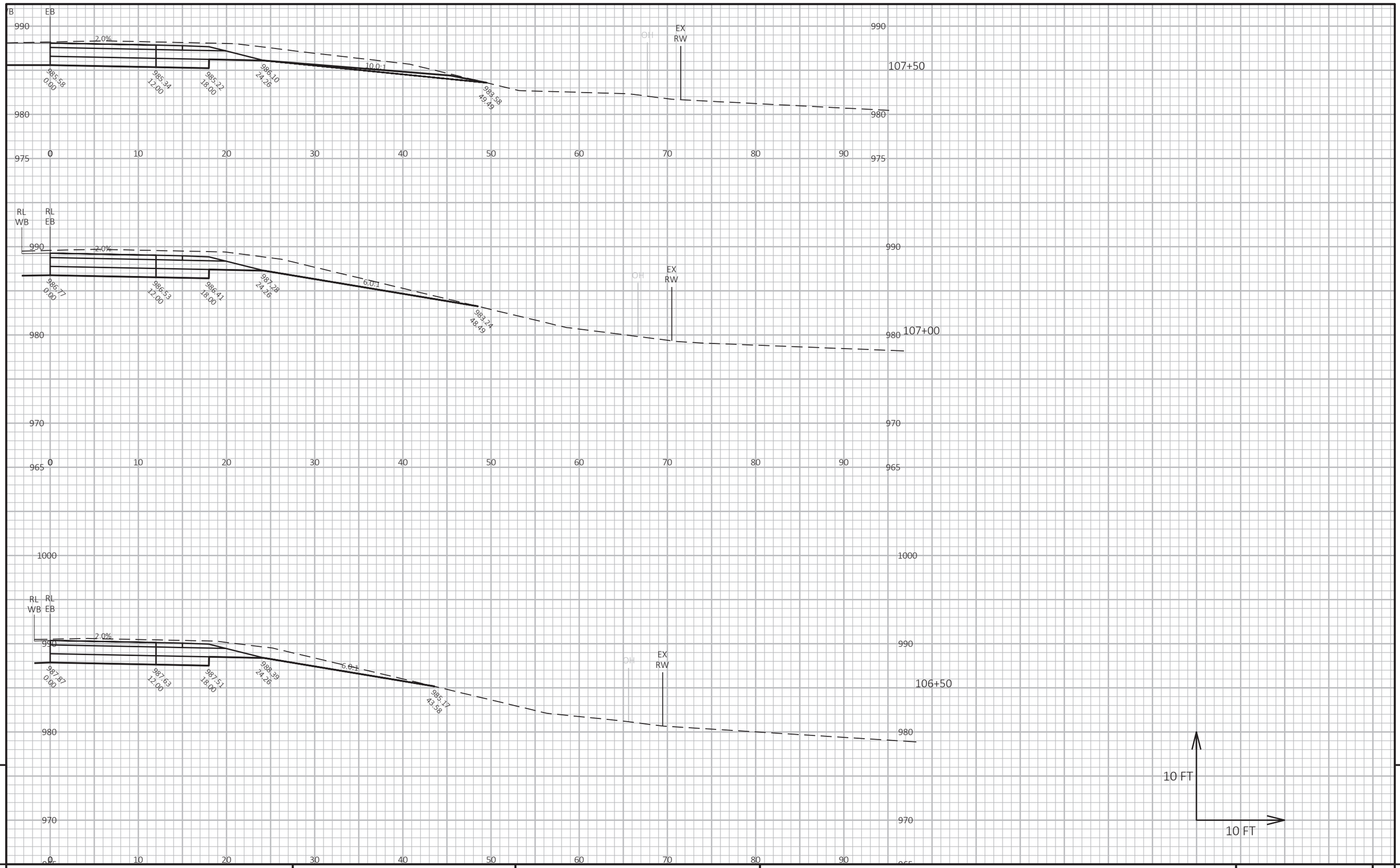
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - WEST LEG	SHEET 196	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB4

PLOT DATE : 8/13/2021 9:55 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

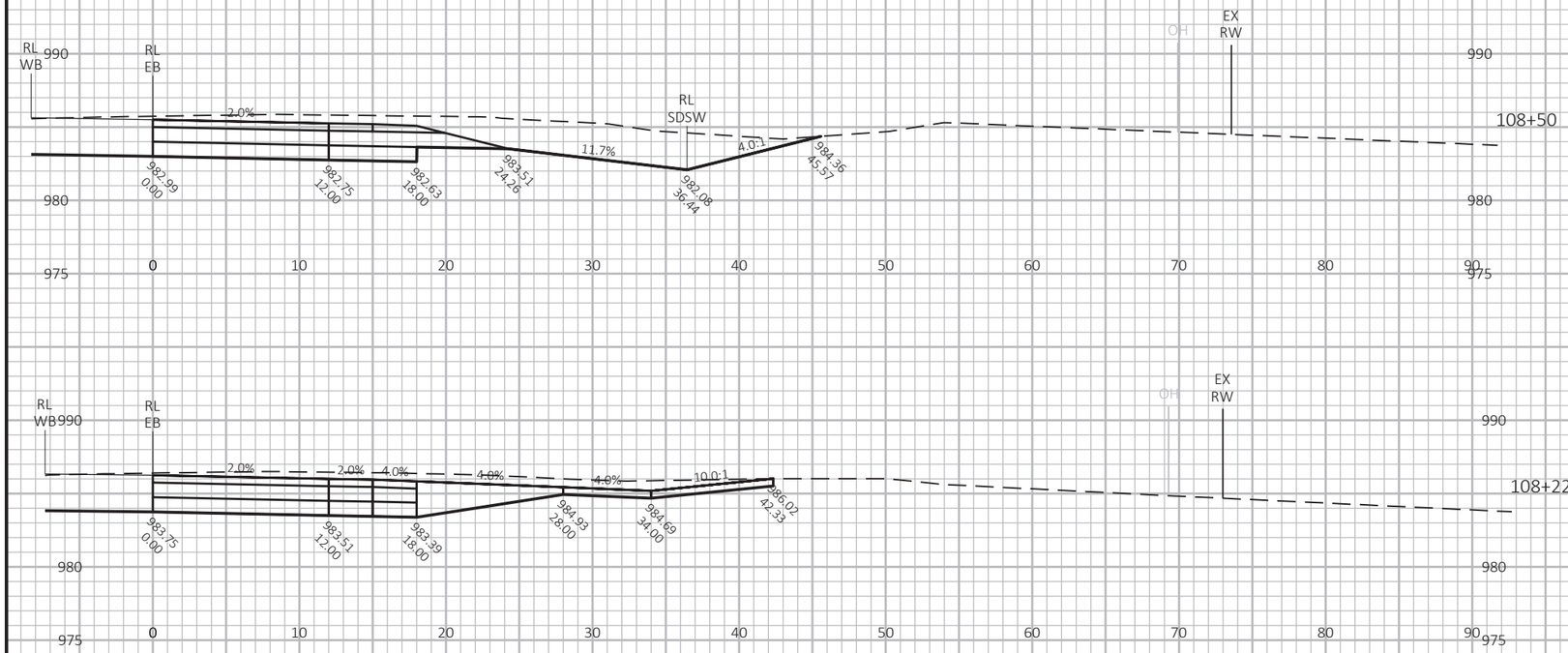


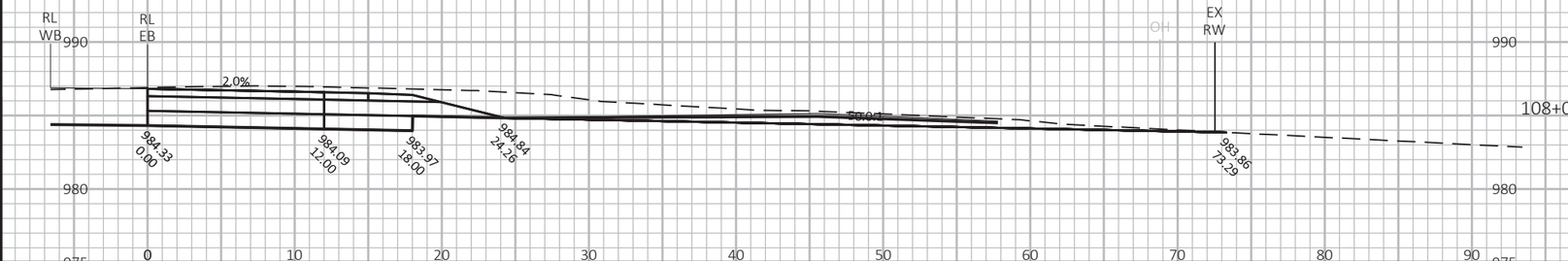
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - WEST LEG	SHEET 197	E

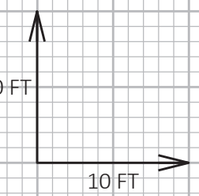
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB5

PLOT DATE : 8/13/2021 9:55 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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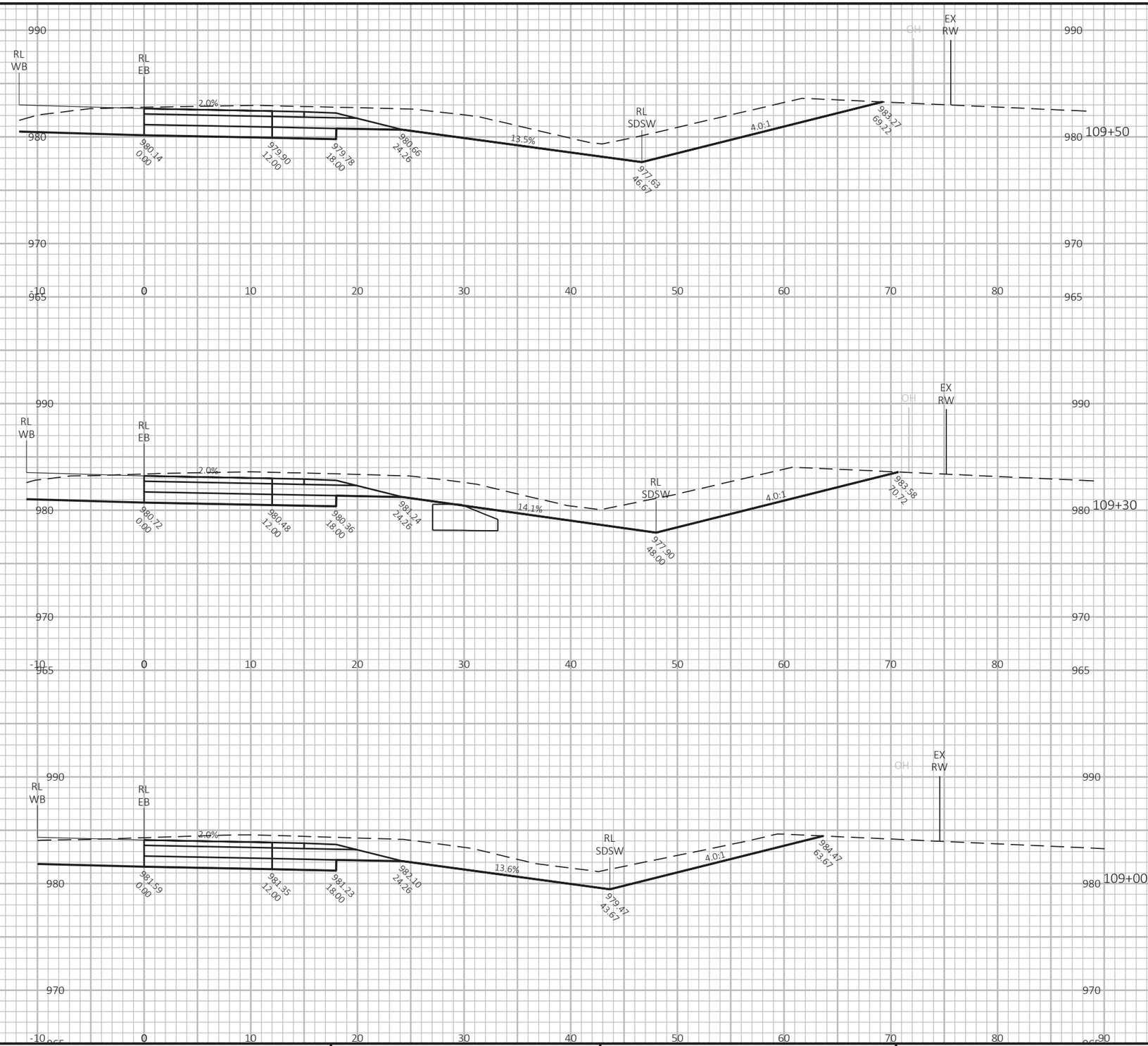
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - WEST LEG	SHEET 198	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB6

PLOT DATE : 8/13/2021 9:55 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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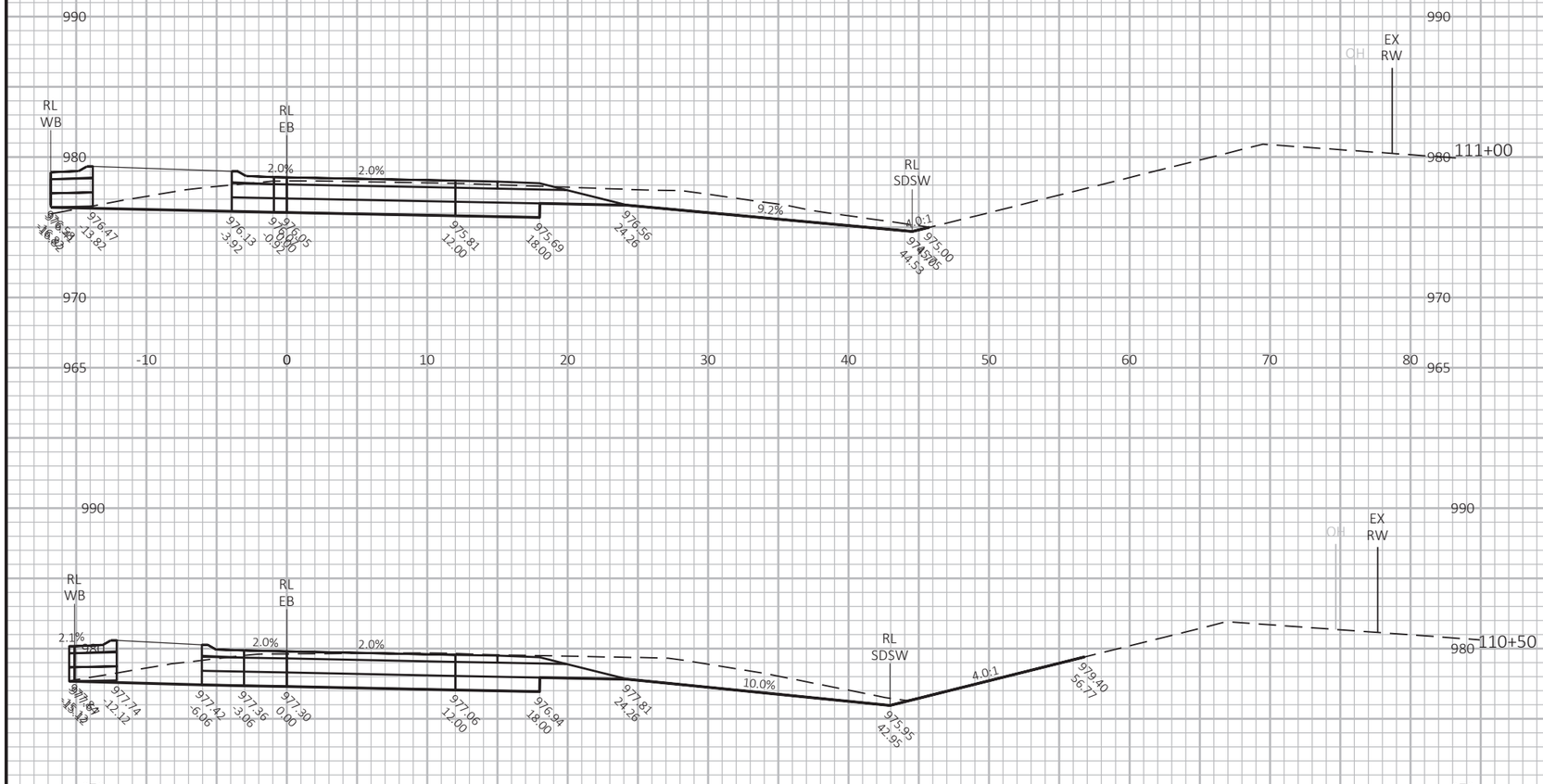
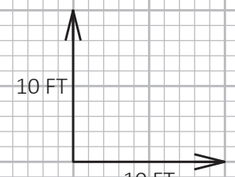
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - WEST LEG	SHEET 199	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB7

PLOT DATE : 8/13/2021 9:55 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - WEST LEG	SHEET 200	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB8

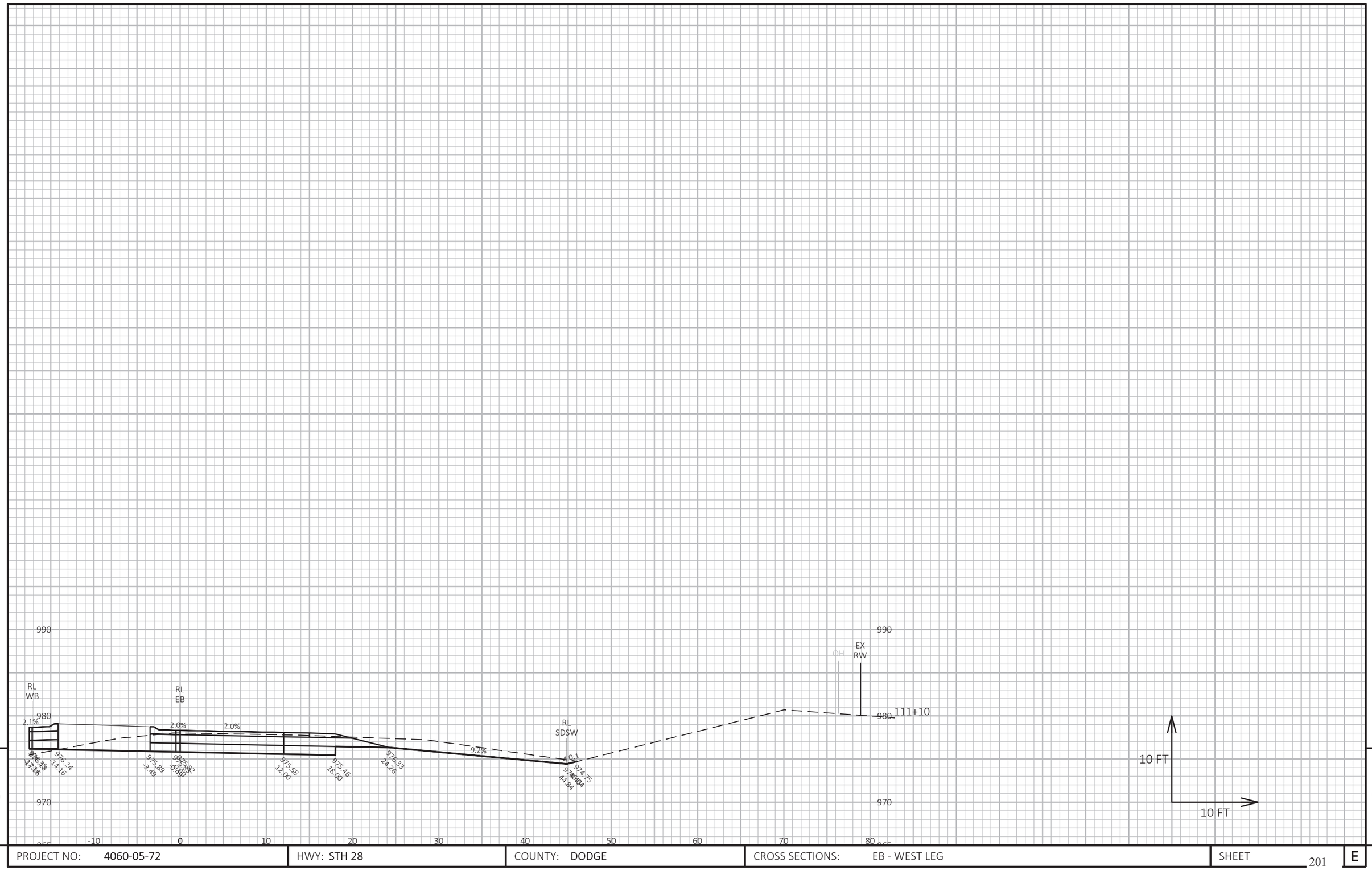
PLOT DATE : 8/13/2021 9:55 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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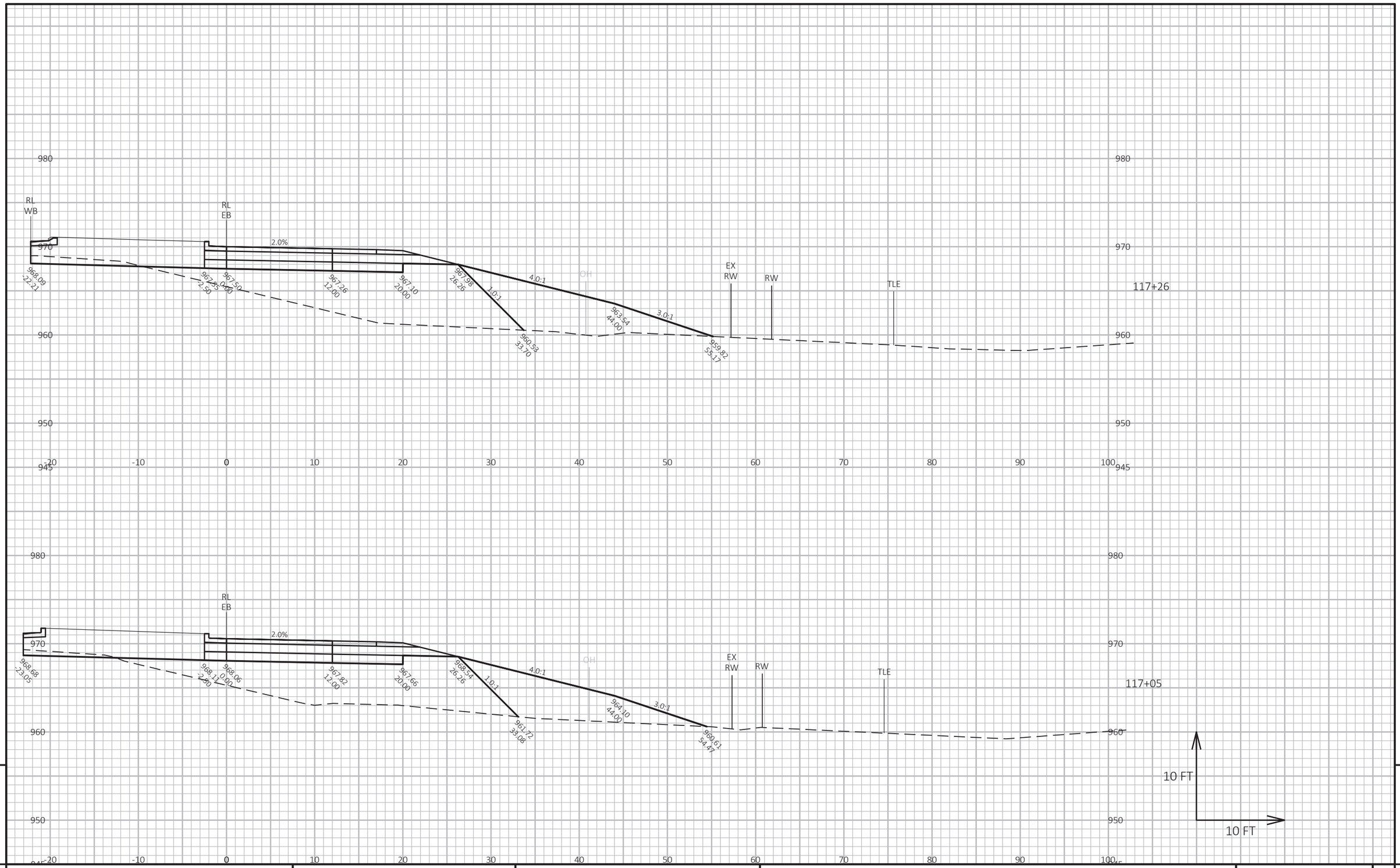
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - WEST LEG	SHEET 201	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB9

PLOT DATE : 8/13/2021 9:55 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



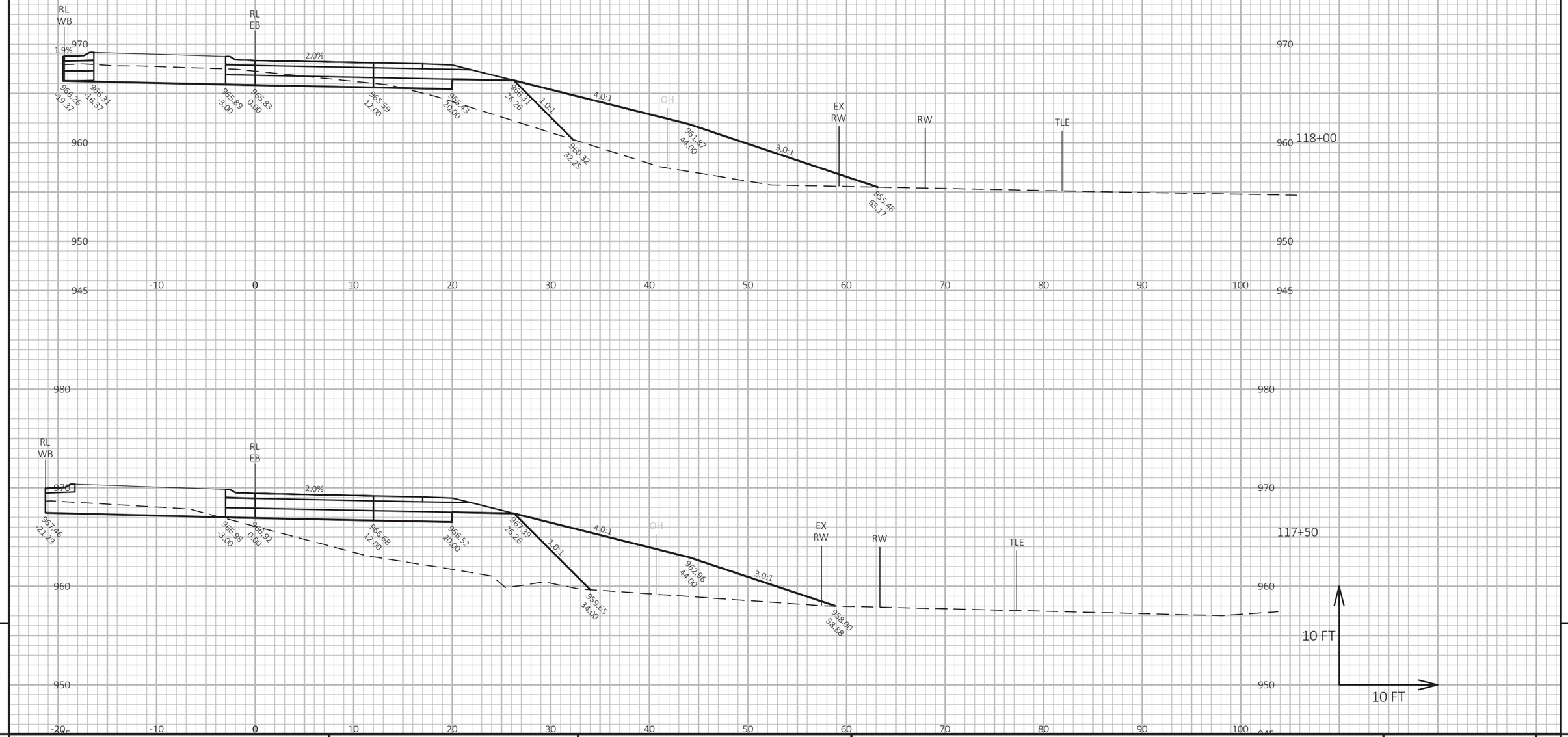
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - EAST LEG	SHEET 202	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB10

PLOT DATE : 8/13/2021 9:55 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

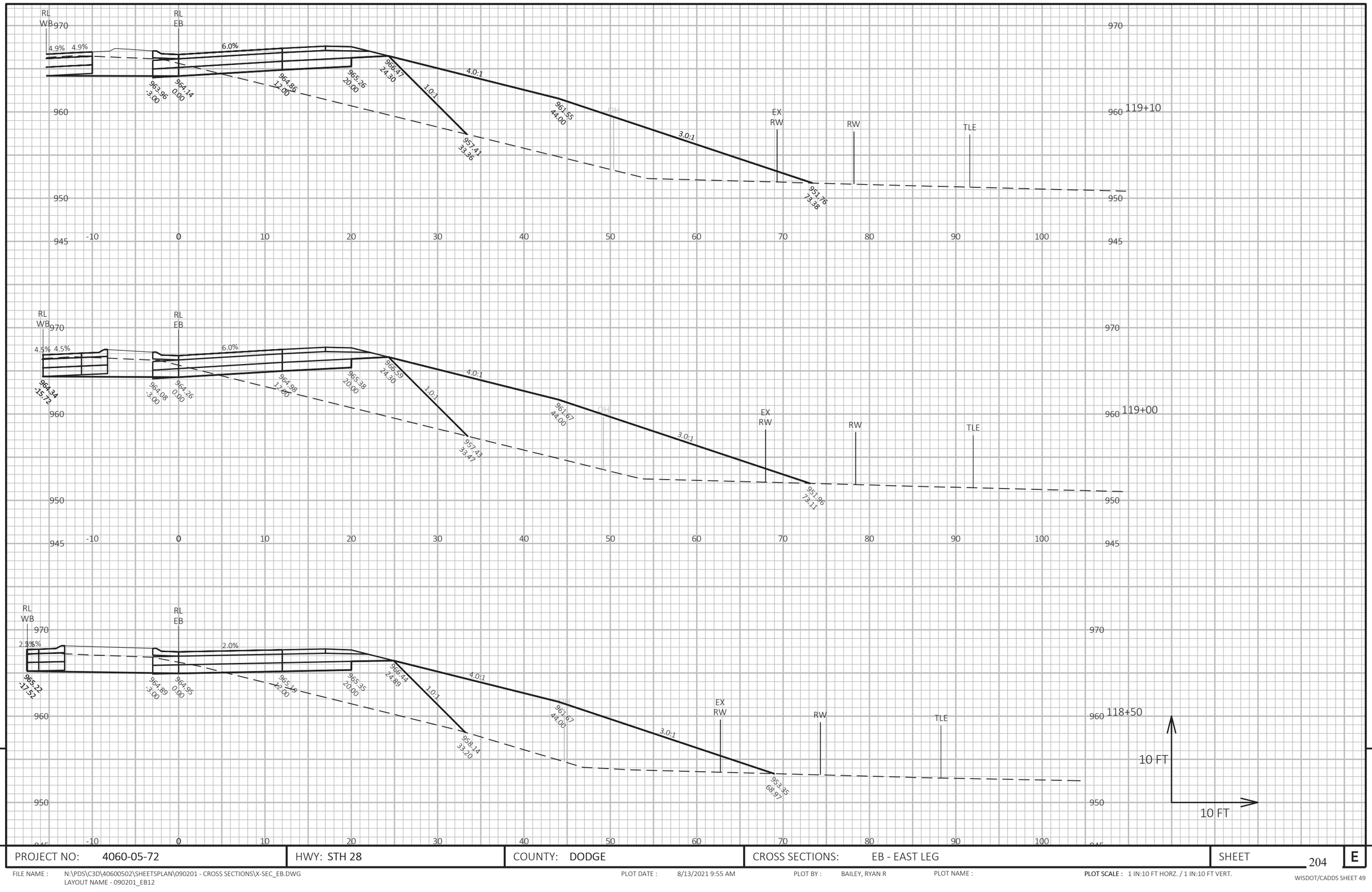


PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - EAST LEG	SHEET 203	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB11

PLOT DATE : 8/13/2021 9:55 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - EAST LEG	SHEET 204	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB12

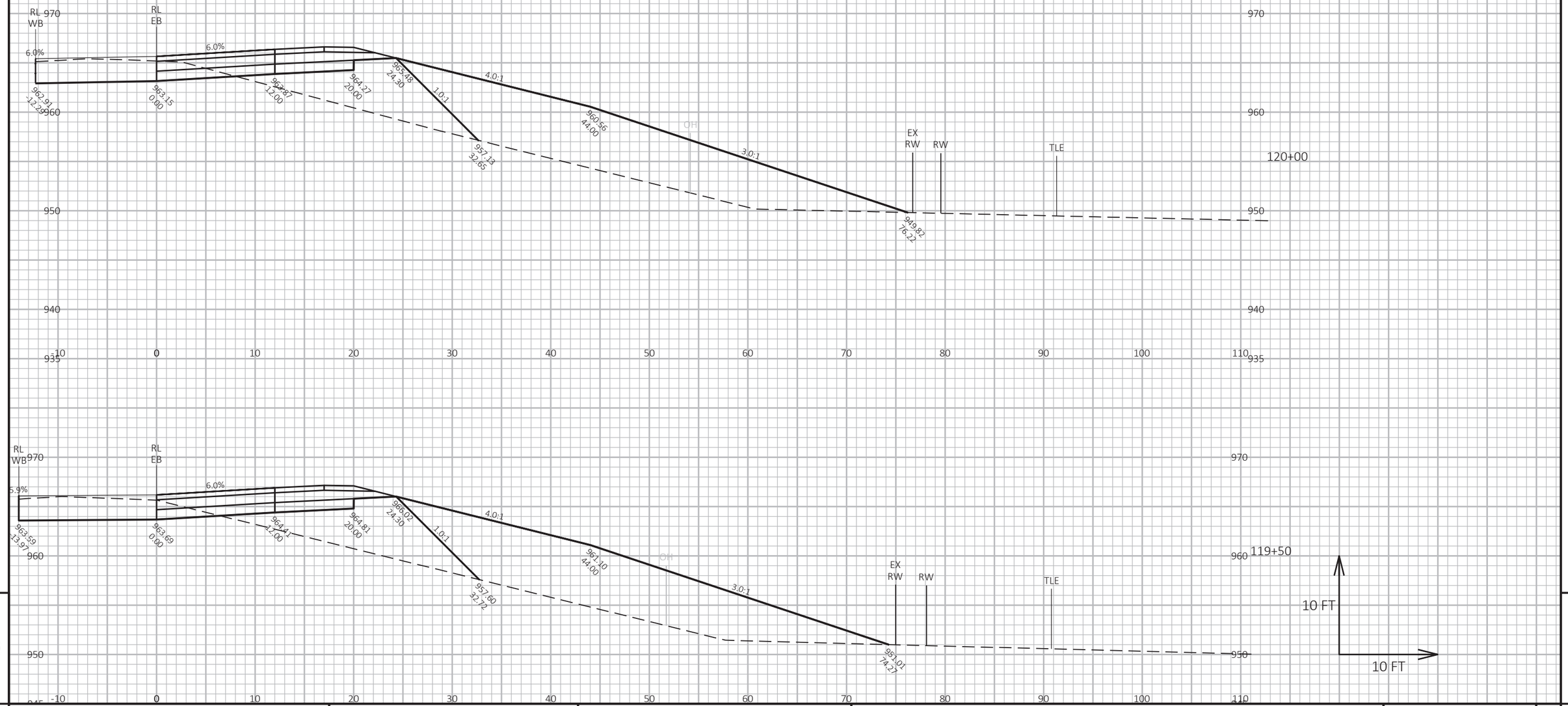
PLOT DATE : 8/13/2021 9:55 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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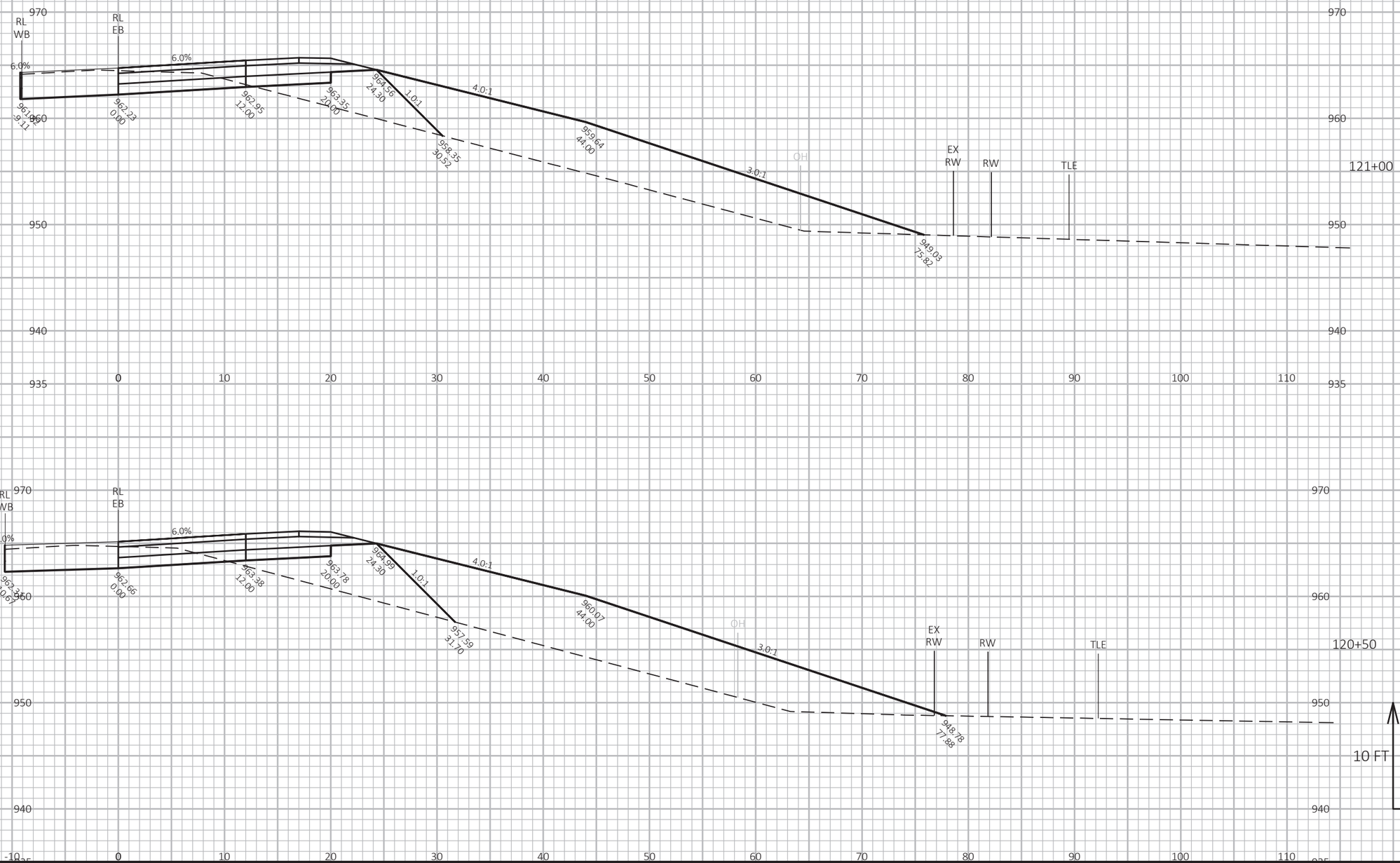
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - EAST LEG	SHEET 205	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB13

PLOT DATE : 8/13/2021 9:55 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

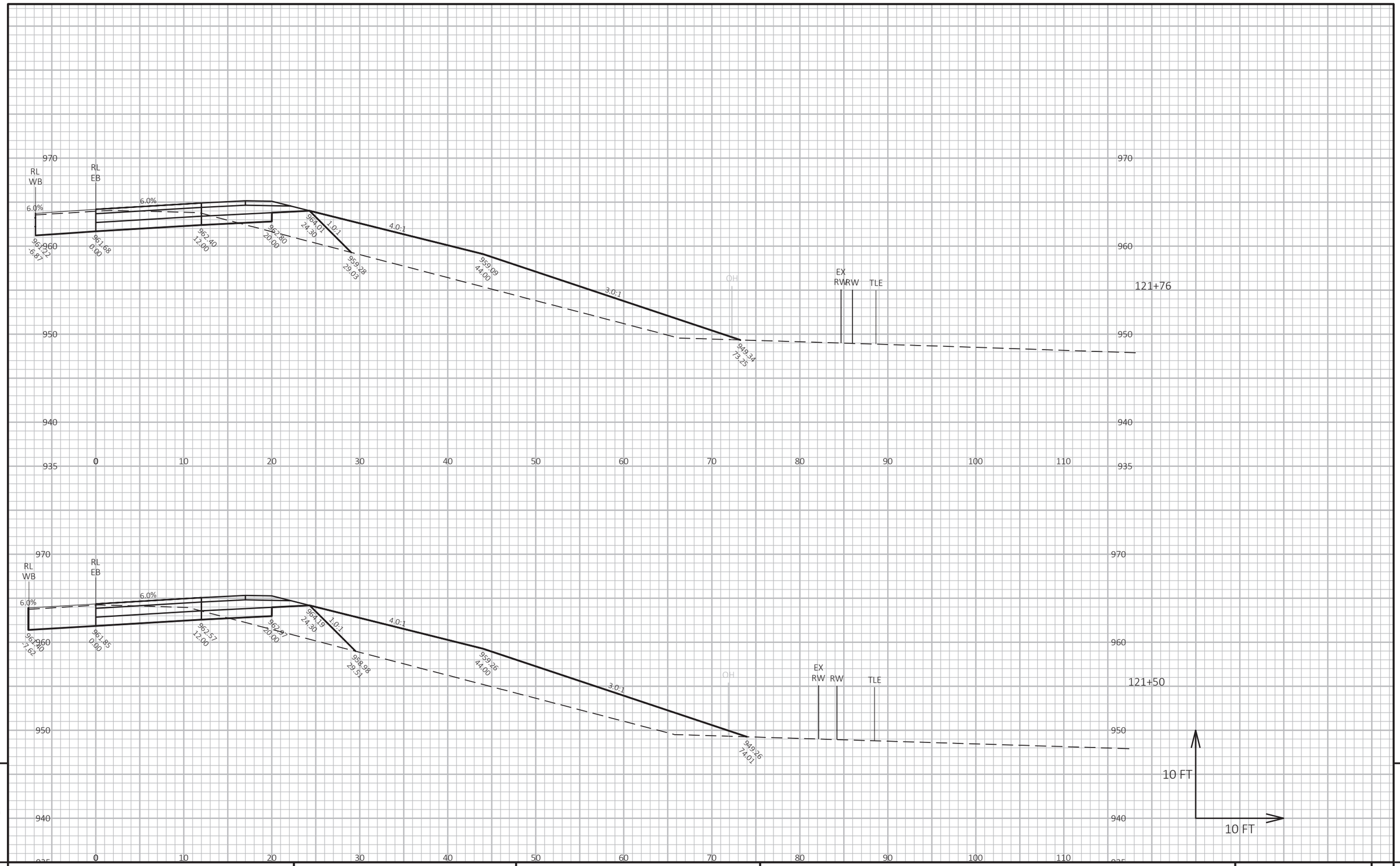


PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - EAST LEG	SHEET 206	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB14

PLOT DATE : 8/13/2021 9:55 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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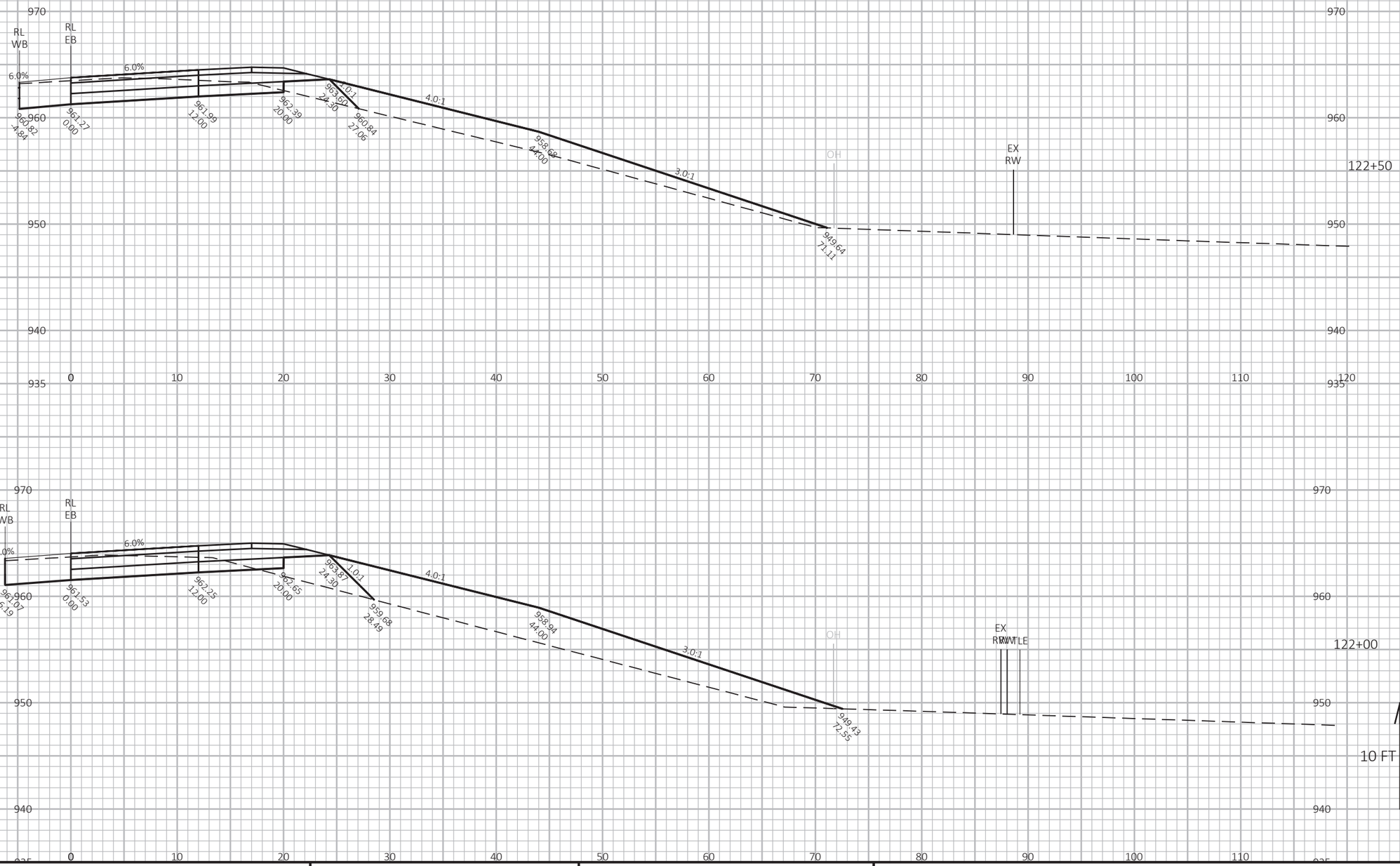
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - EAST LEG	SHEET 207	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB15

PLOT DATE : 8/13/2021 9:55 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

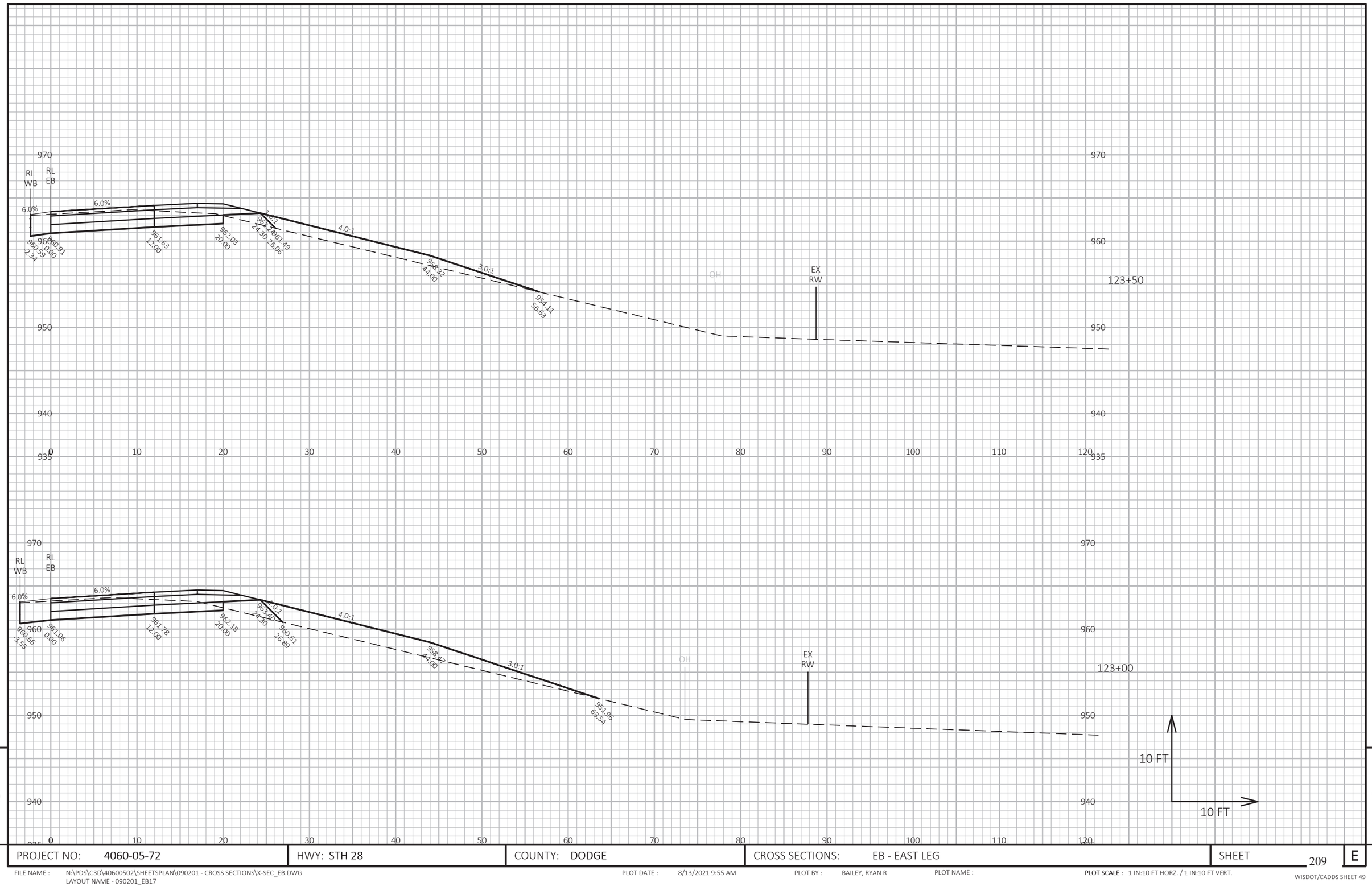


PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - EAST LEG	SHEET 208	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB16

PLOT DATE : 8/13/2021 9:55 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

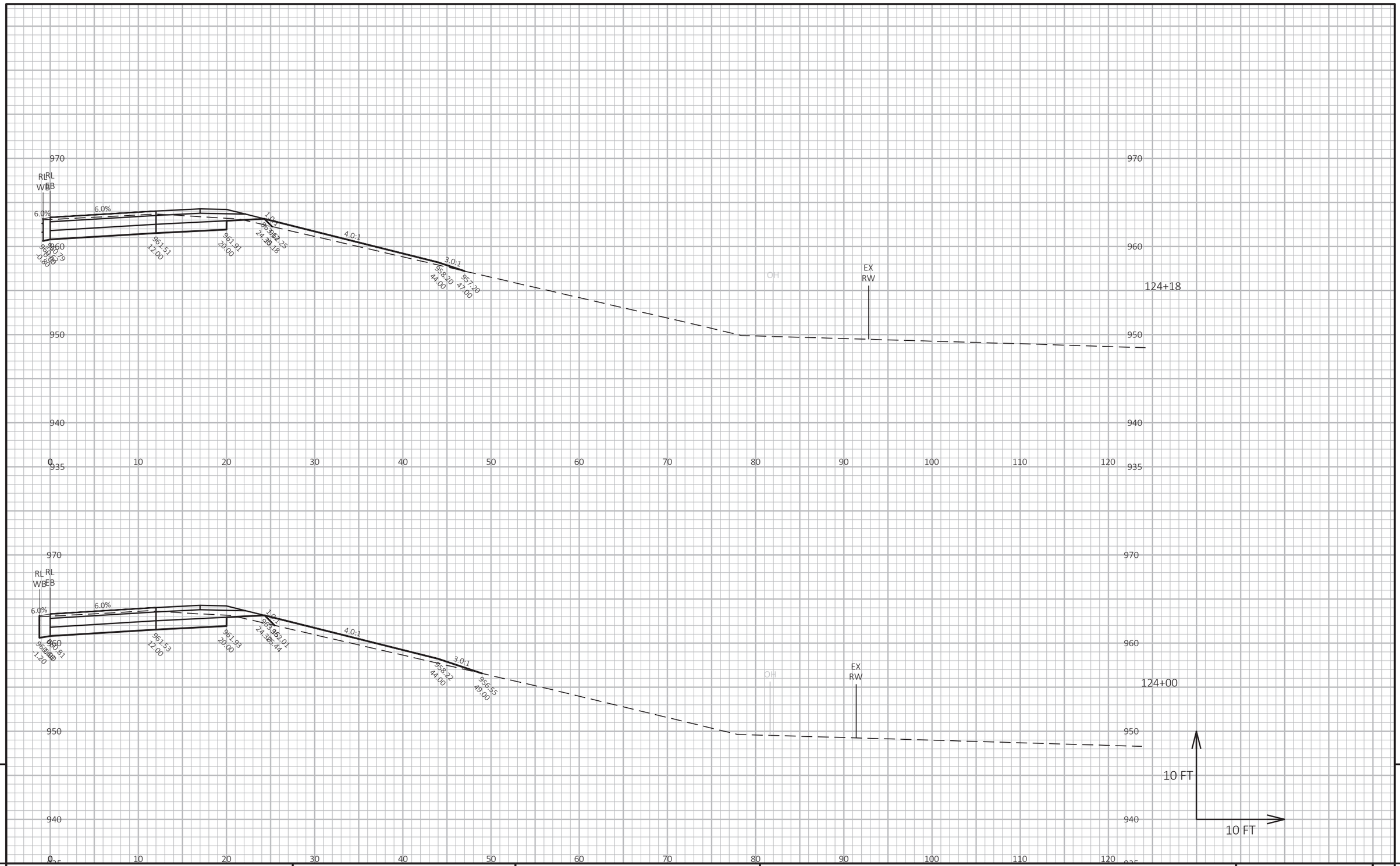


PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - EAST LEG	SHEET 209	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB17

PLOT DATE : 8/13/2021 9:55 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

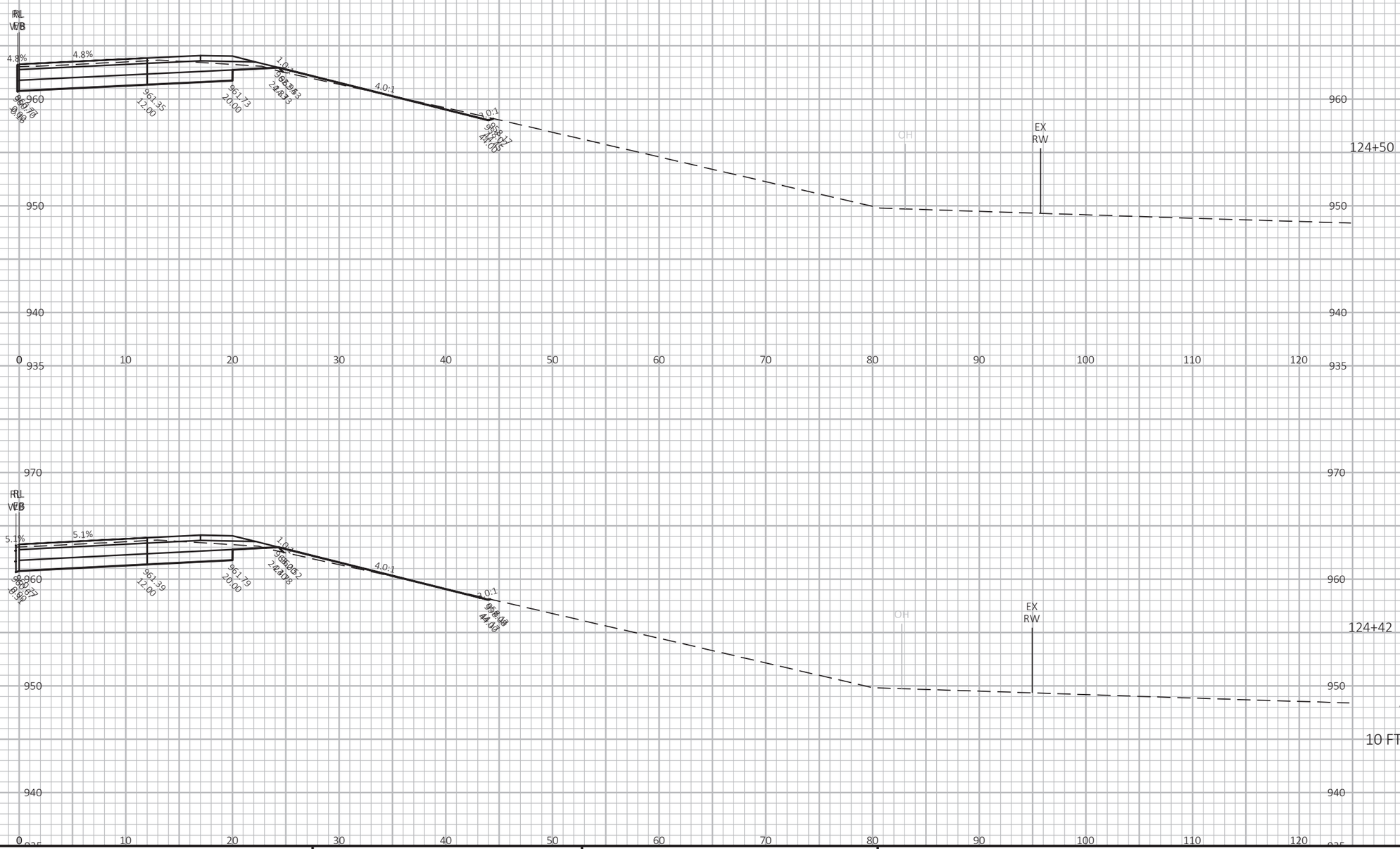


PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - EAST LEG	SHEET 210 E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB18

PLOT DATE : 8/13/2021 9:55 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - EAST LEG	SHEET 211	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB19

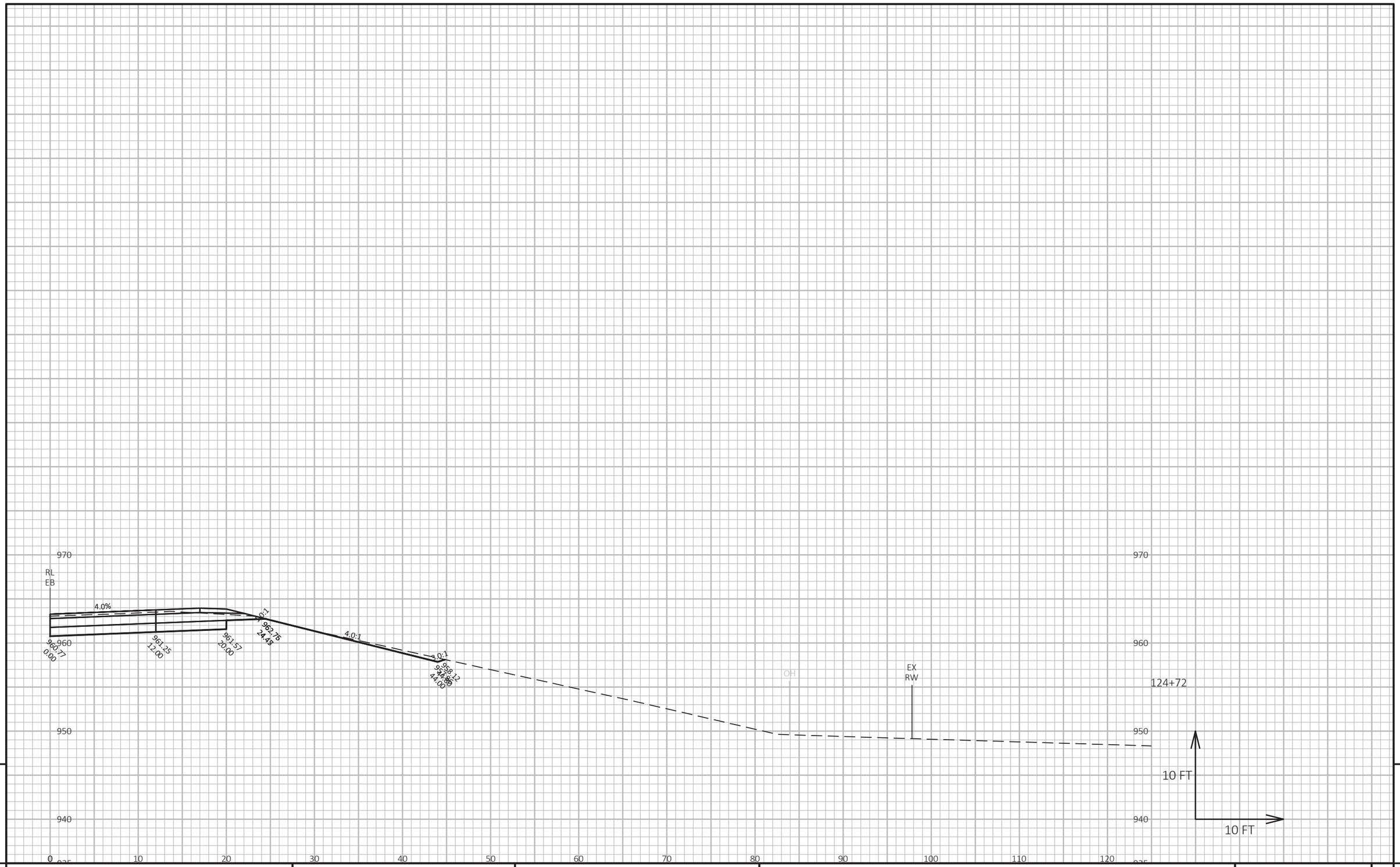
PLOT DATE : 8/13/2021 9:55 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

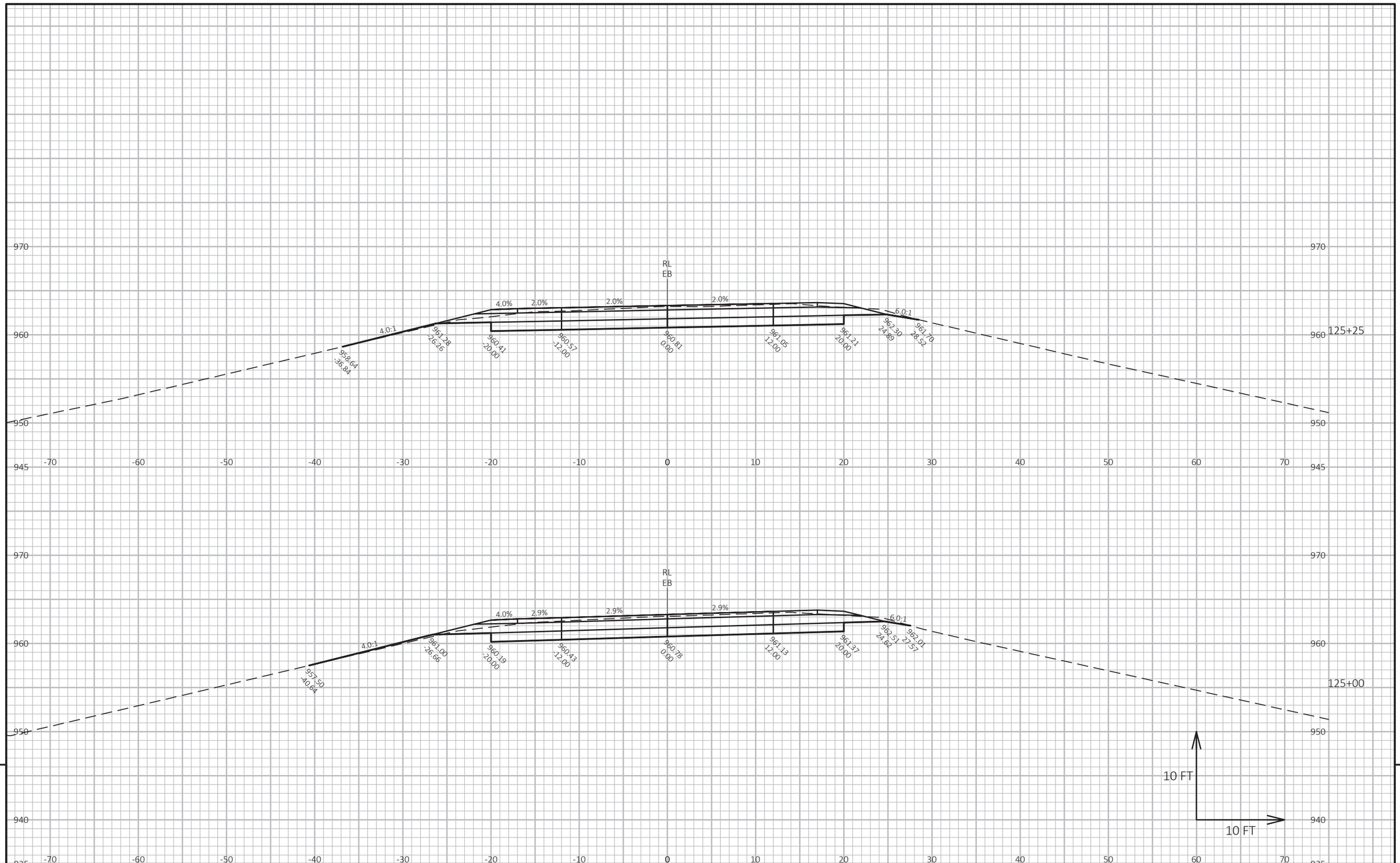


9 9

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - EAST LEG	SHEET 212	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB20

PLOT DATE : 8/13/2021 9:55 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - EAST LEG	SHEET 213	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB21

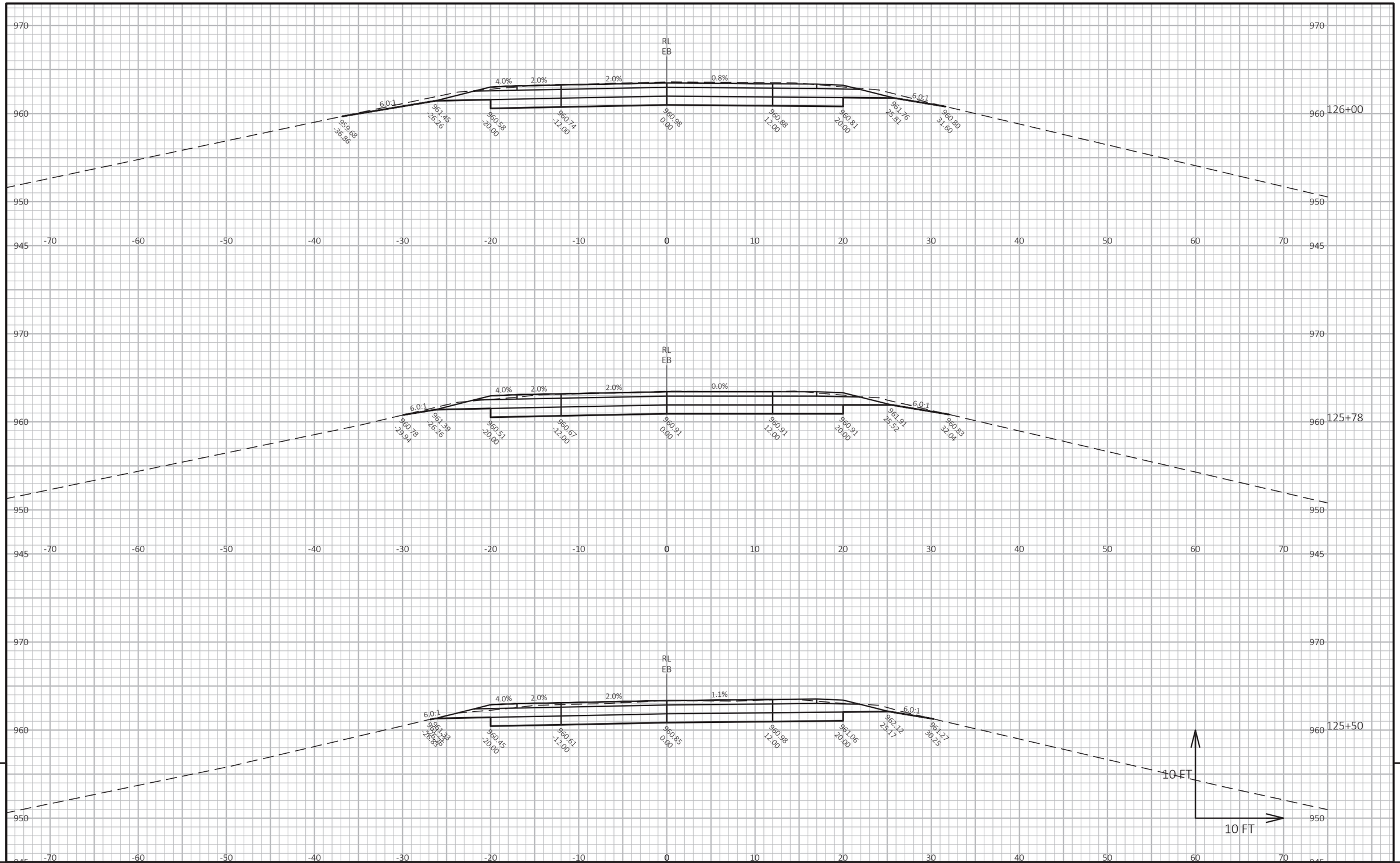
PLOT DATE : 8/13/2021 9:55 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - EAST LEG	SHEET 214	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB22

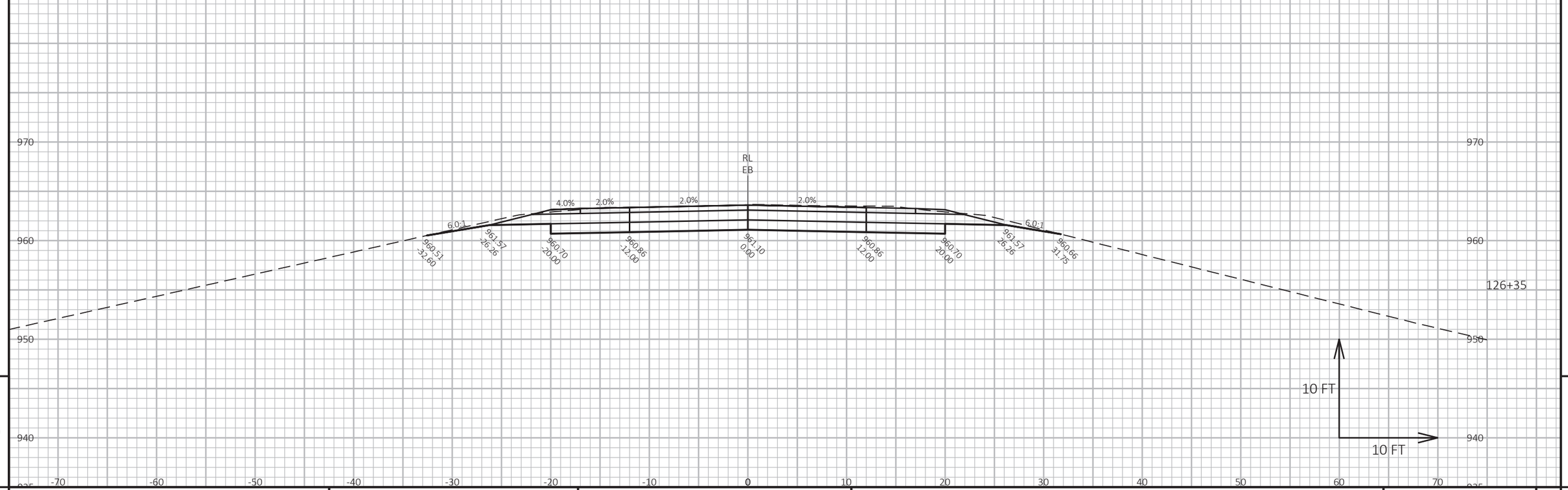
PLOT DATE : 8/13/2021 9:55 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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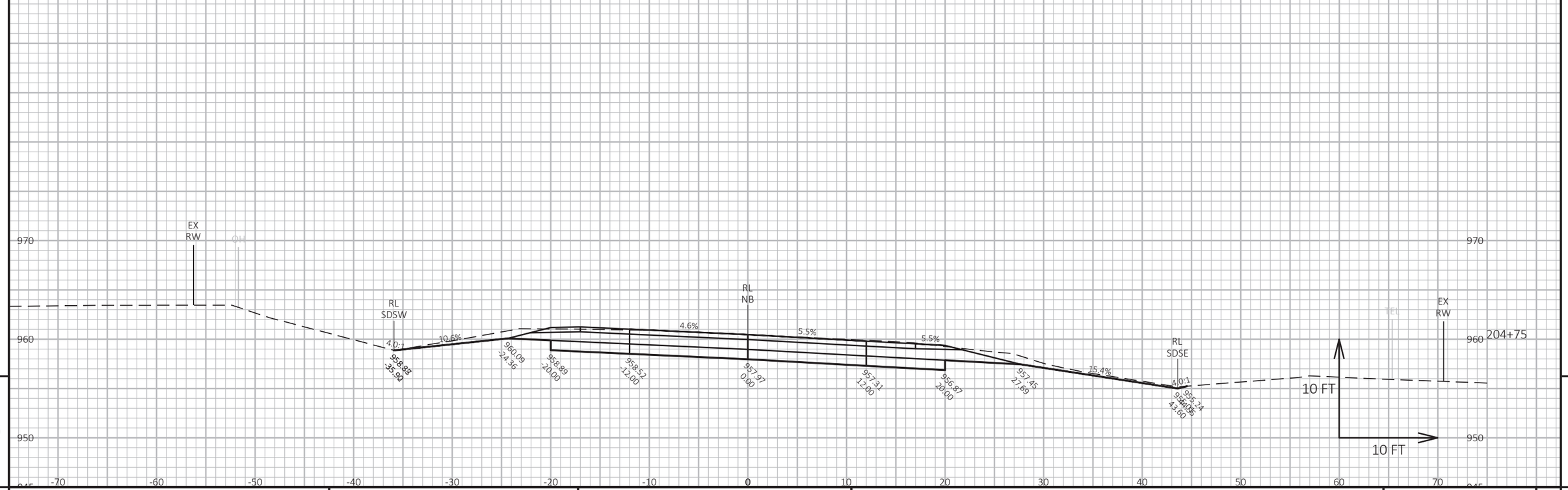
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: EB - EAST LEG	SHEET 215	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_EB.DWG
LAYOUT NAME - 090201_EB23

PLOT DATE : 8/13/2021 9:55 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NB - SOUTH LEG	SHEET 216	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X_SEC_NB.DWG
LAYOUT NAME - 090201_NB1

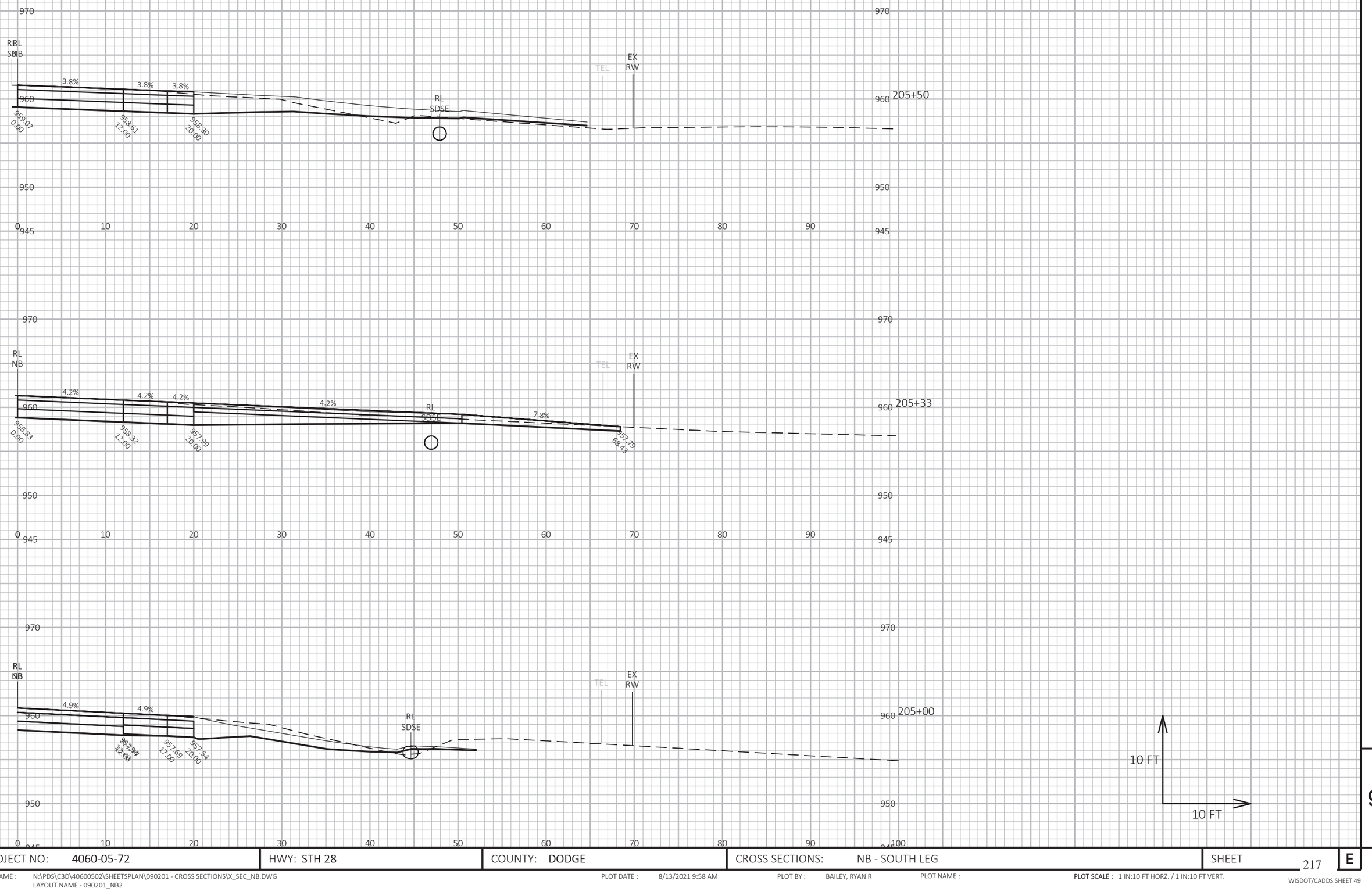
PLOT DATE : 8/13/2021 9:58 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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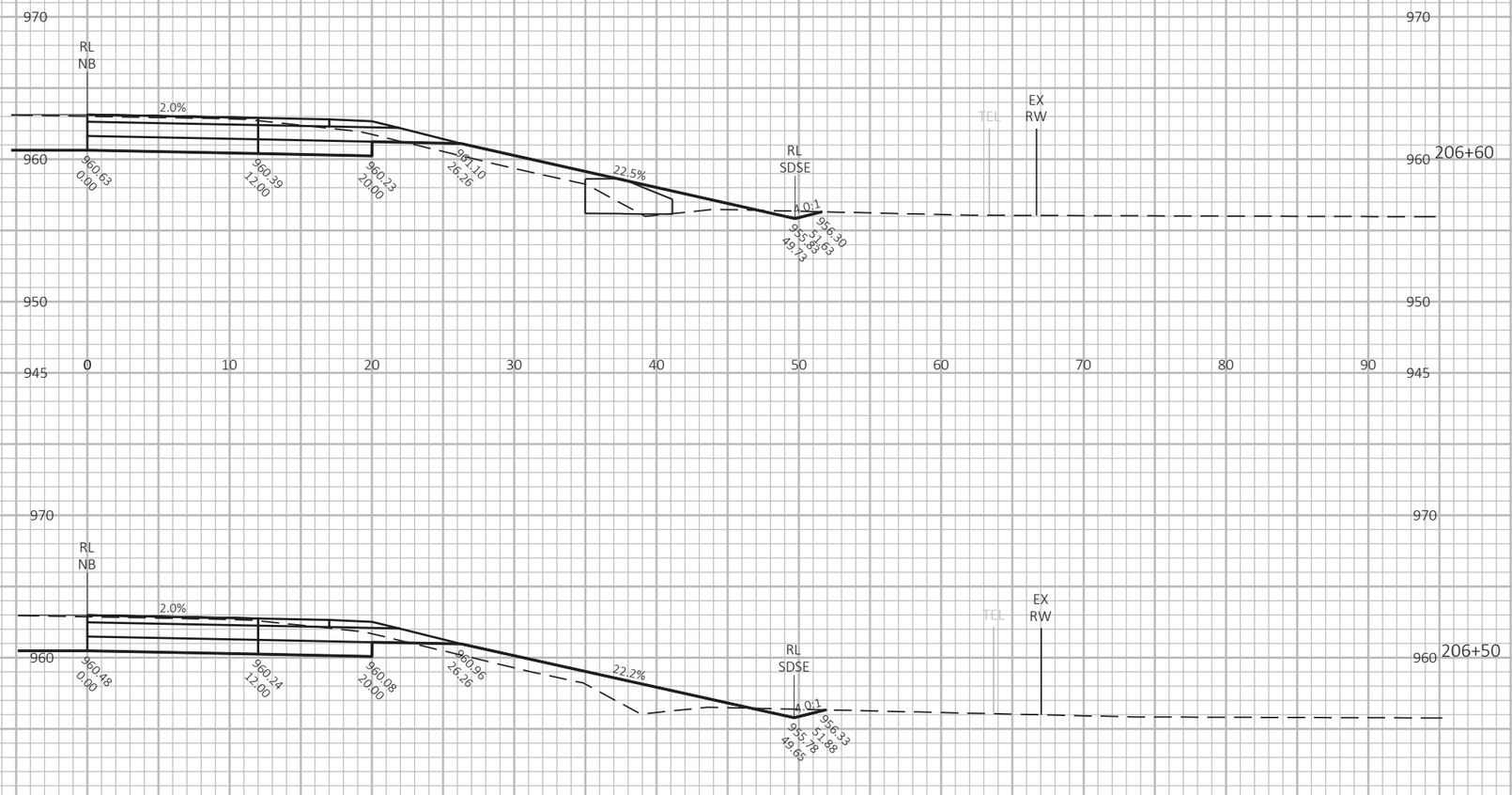
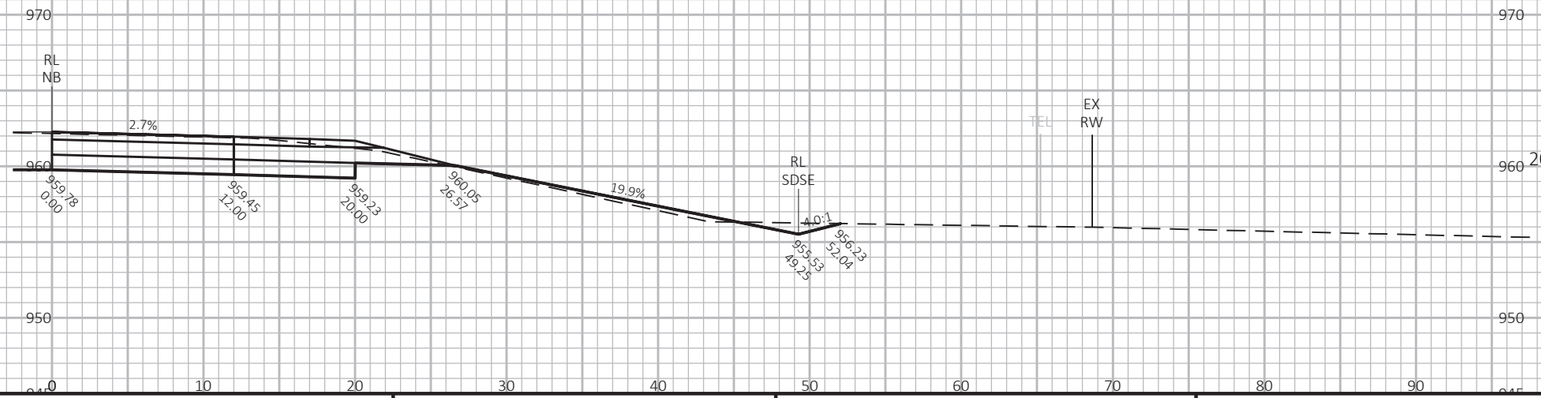
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NB - SOUTH LEG	SHEET 217	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X_SEC_NB.DWG
LAYOUT NAME - 090201_NB2

PLOT DATE : 8/13/2021 9:58 AM PLOT BY : BAILEY, RYAN R PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NB - SOUTH LEG	SHEET 218	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X_SEC_NB.DWG
LAYOUT NAME - 090201_NB3

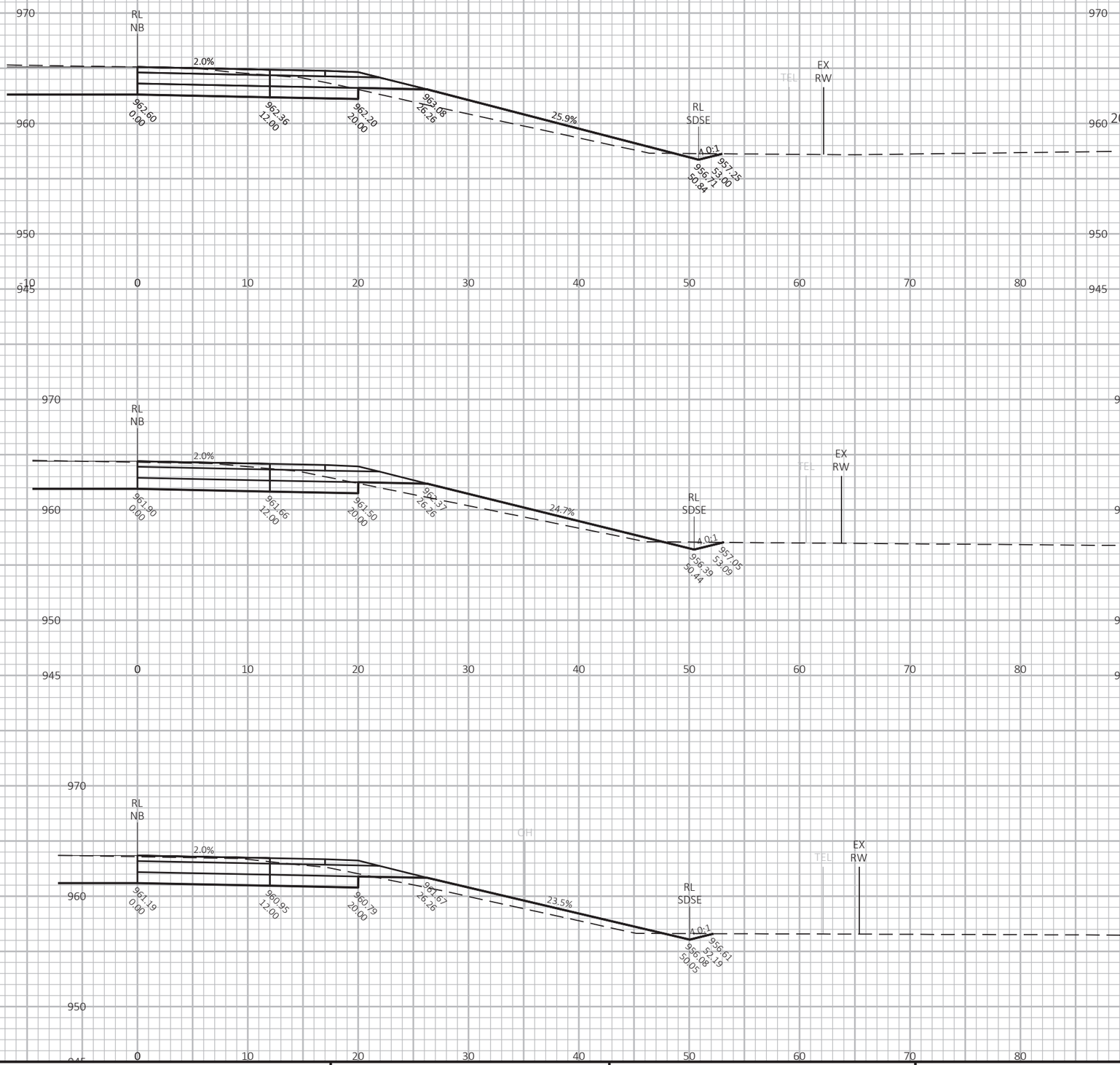
PLOT DATE : 8/13/2021 9:58 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NB - SOUTH LEG	SHEET 219	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X_SEC_NB.DWG
LAYOUT NAME - 090201_NB4

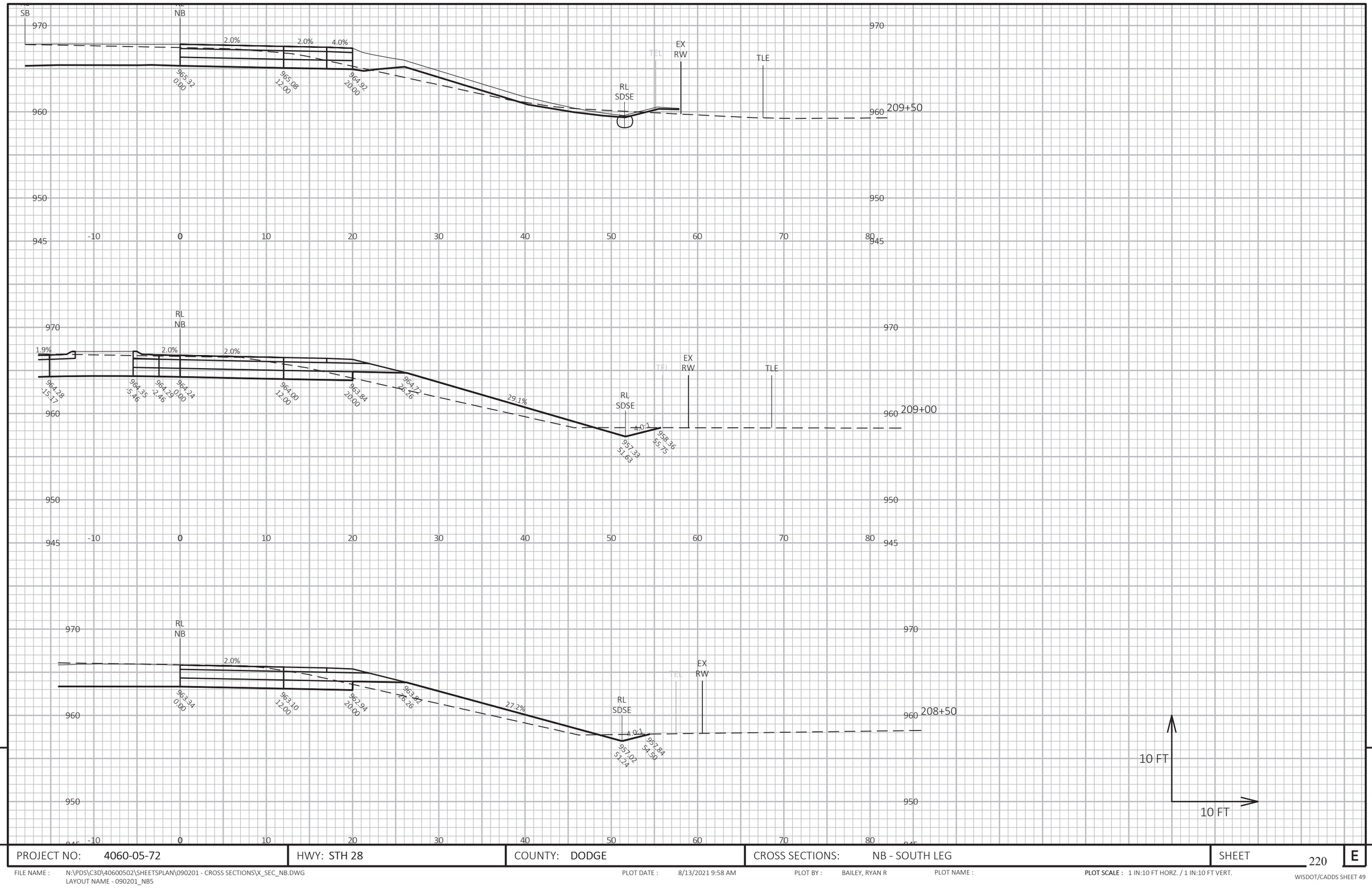
PLOT DATE : 8/13/2021 9:58 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NB - SOUTH LEG	SHEET 220	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X_SEC_NB.DWG
LAYOUT NAME - 090201_NB5

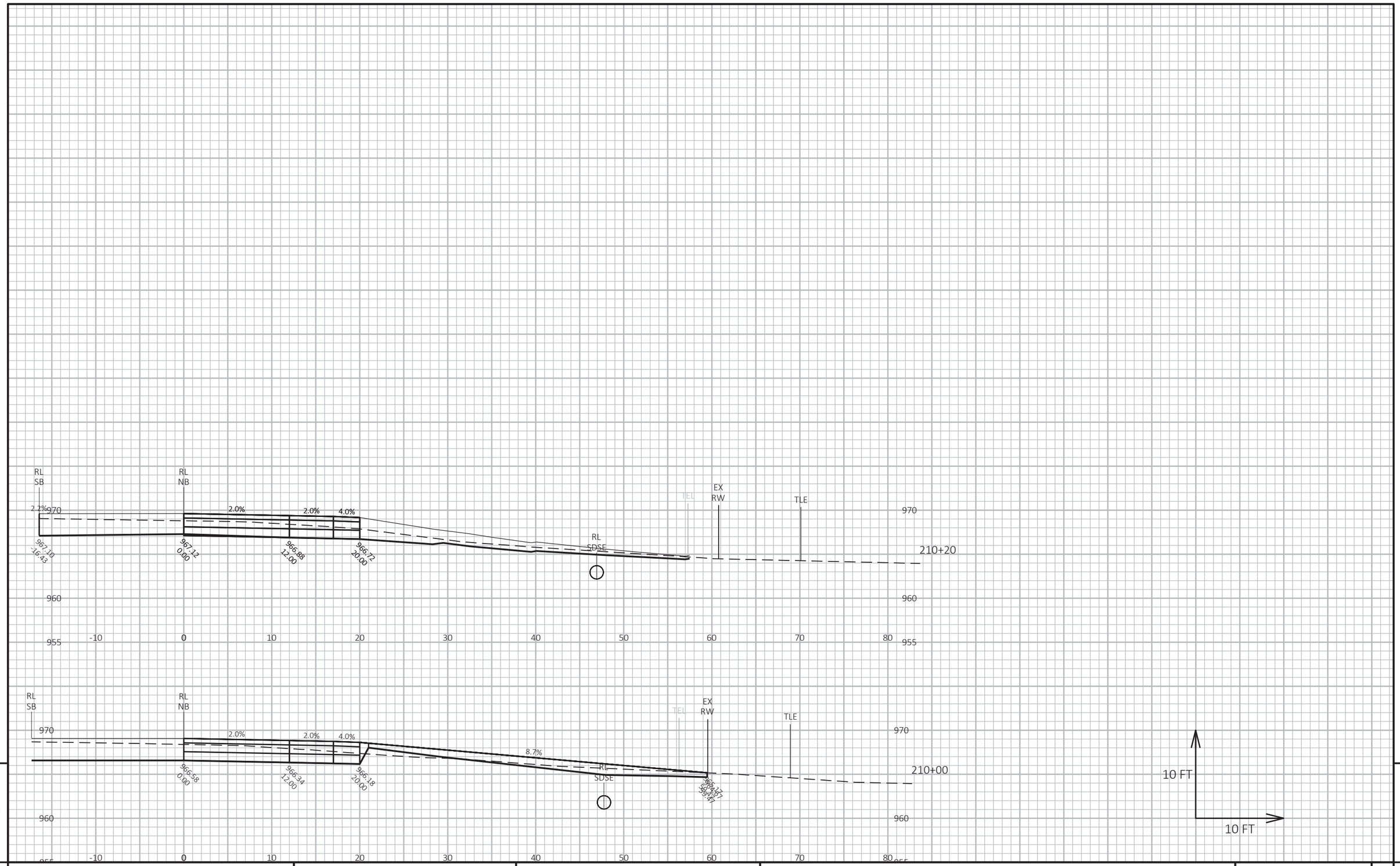
PLOT DATE : 8/13/2021 9:58 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NB - SOUTH LEG	SHEET 221	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X_SEC_NB.DWG
LAYOUT NAME - 090201_NB6

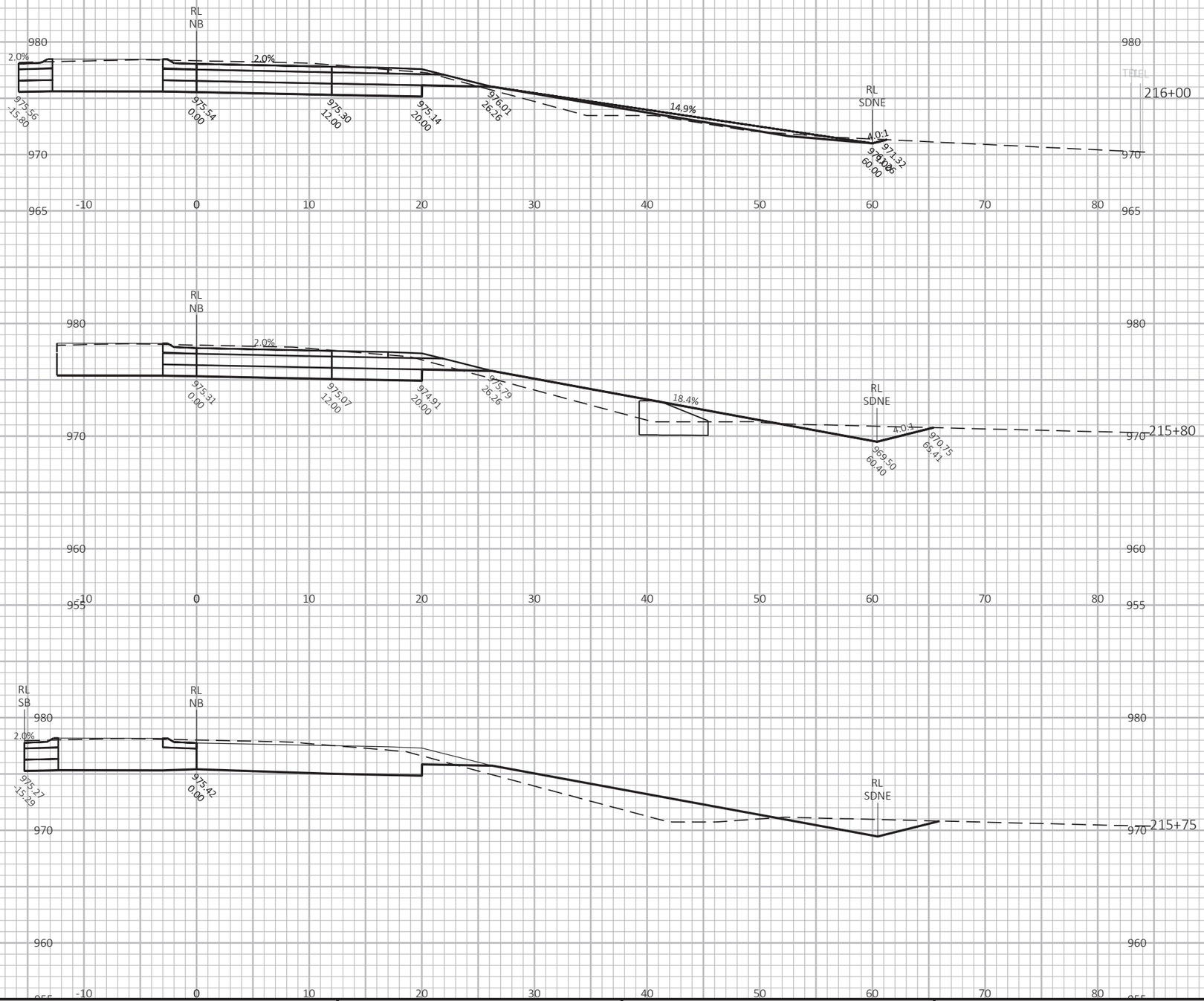
PLOT DATE : 8/13/2021 9:58 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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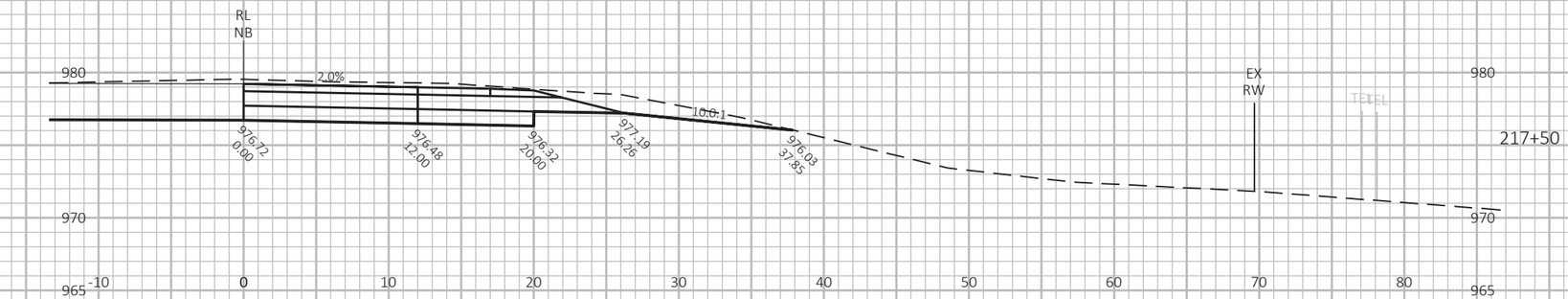
9

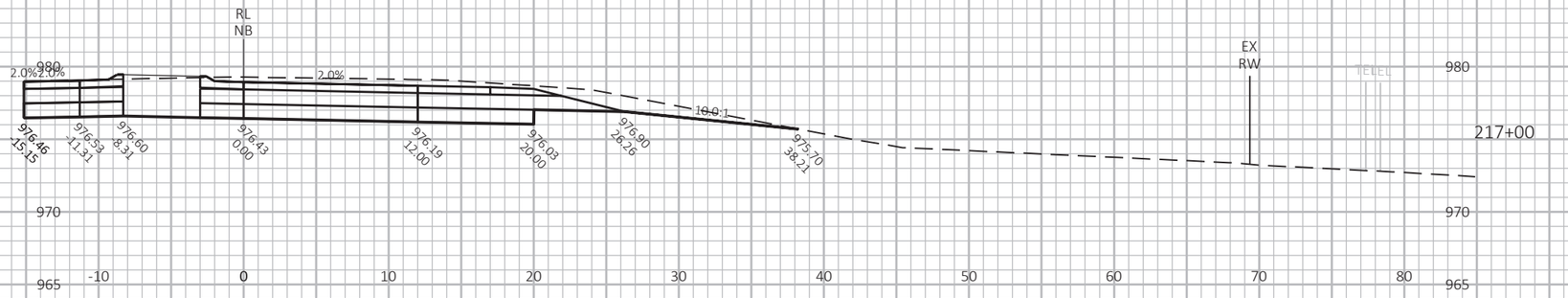
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NB - NORTH LEG	SHEET 222	E

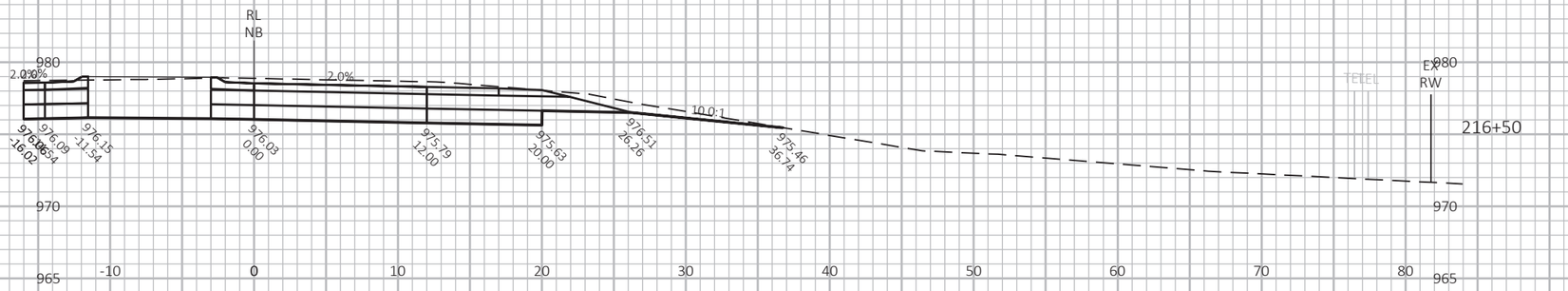
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X_SEC_NB.DWG
LAYOUT NAME - 090201_NB7

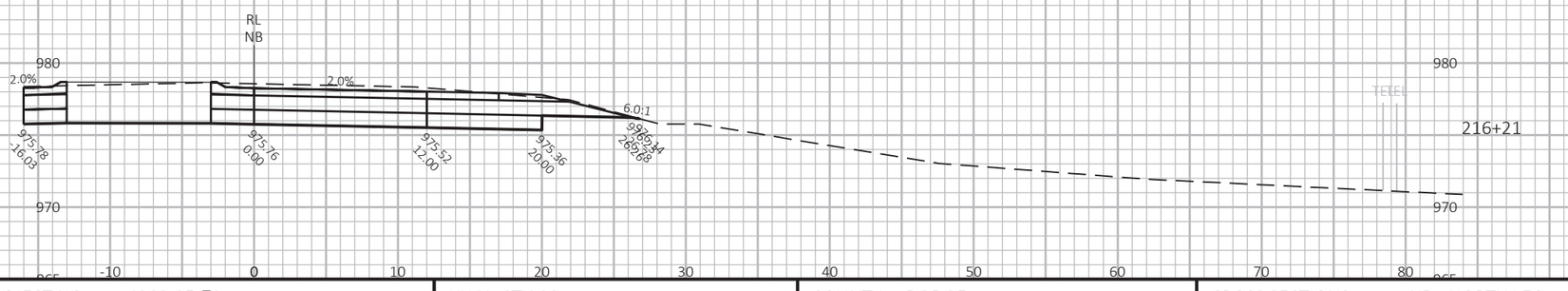
PLOT DATE : 8/13/2021 9:58 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

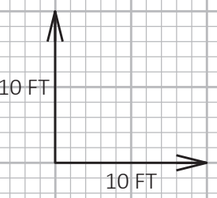
WISDOT/CADDS SHEET 49











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9

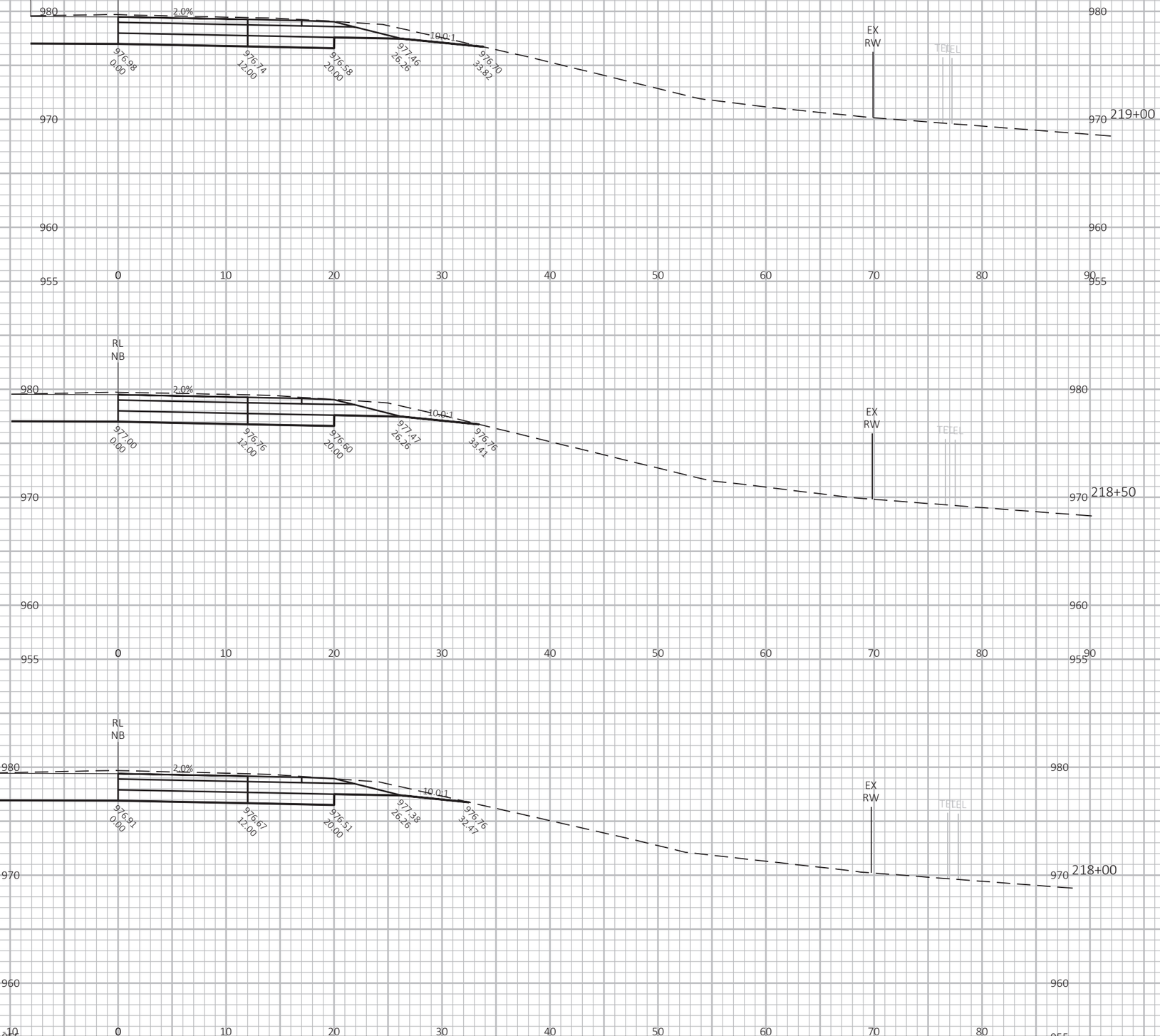
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NB - NORTH LEG	SHEET 223	E

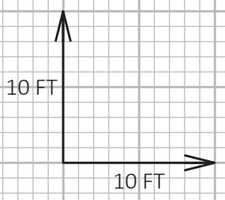
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X_SEC_NB.DWG
LAYOUT NAME - 090201_NB8

PLOT DATE : 8/13/2021 9:58 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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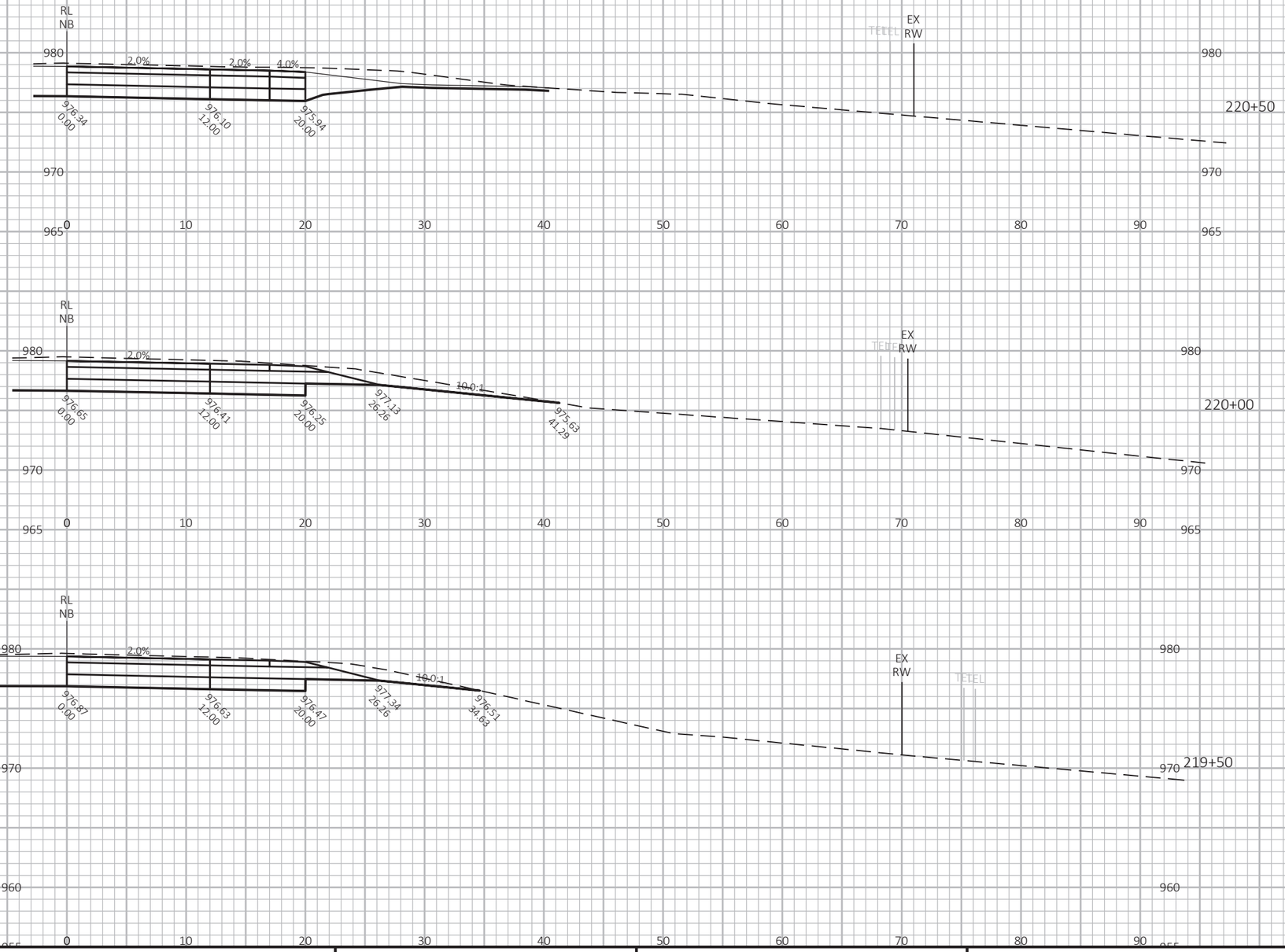
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NB - NORTH LEG	SHEET 224	E

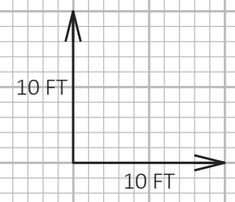
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X_SEC_NB.DWG
LAYOUT NAME - 090201_NB9

PLOT DATE : 8/13/2021 9:58 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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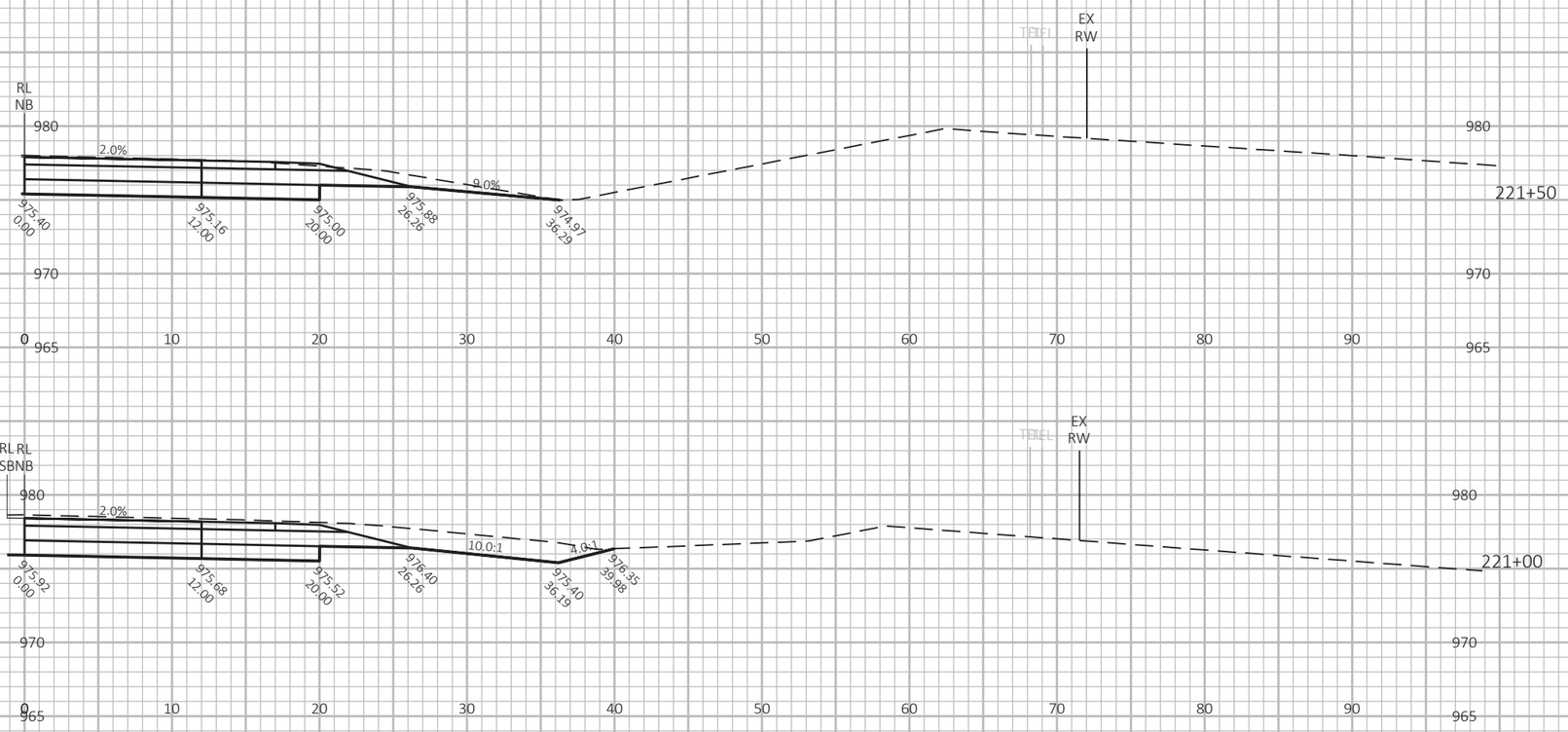
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NB - NORTH LEG	SHEET 225	E

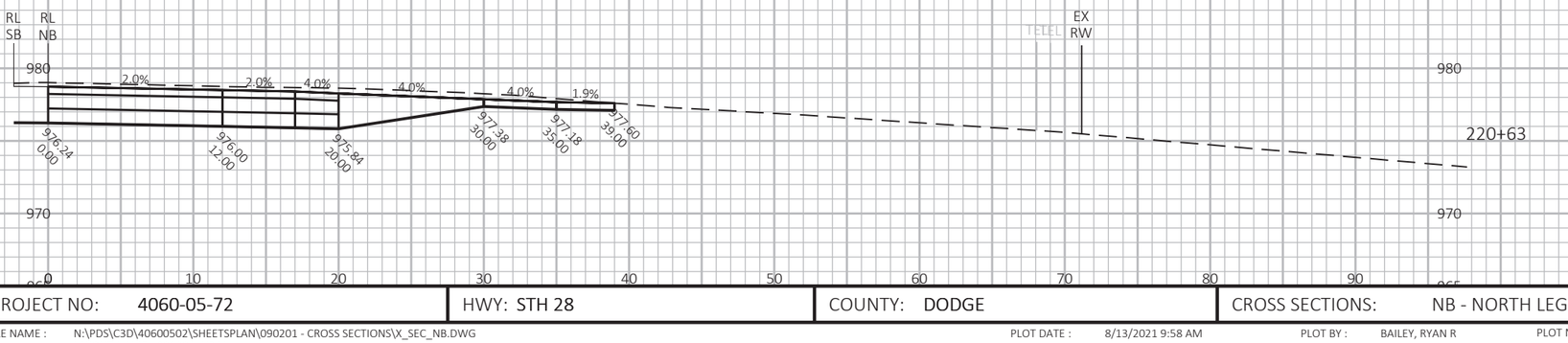
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X_SEC_NB.DWG
LAYOUT NAME - 090201_NB10

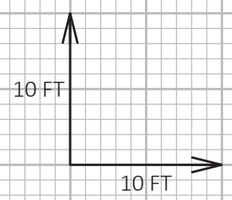
PLOT DATE : 8/13/2021 9:58 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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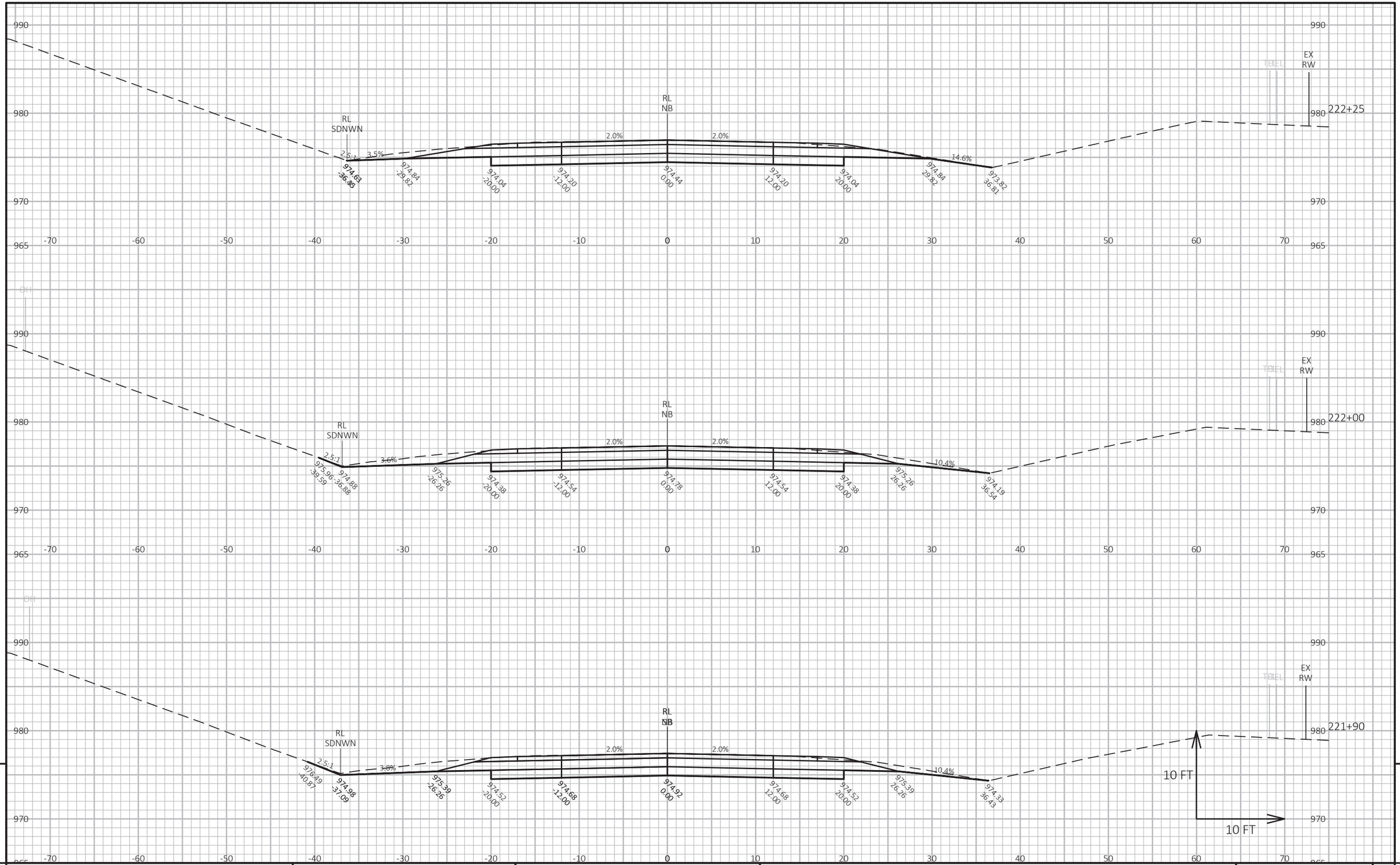
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NB - NORTH LEG	SHEET 226	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X_SEC_NB.DWG
LAYOUT NAME - 090201_NB11

PLOT DATE : 8/13/2021 9:58 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NB - NORTH LEG	SHEET 227	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X_SEC_NB.DWG
LAYOUT NAME - 090201_NB12

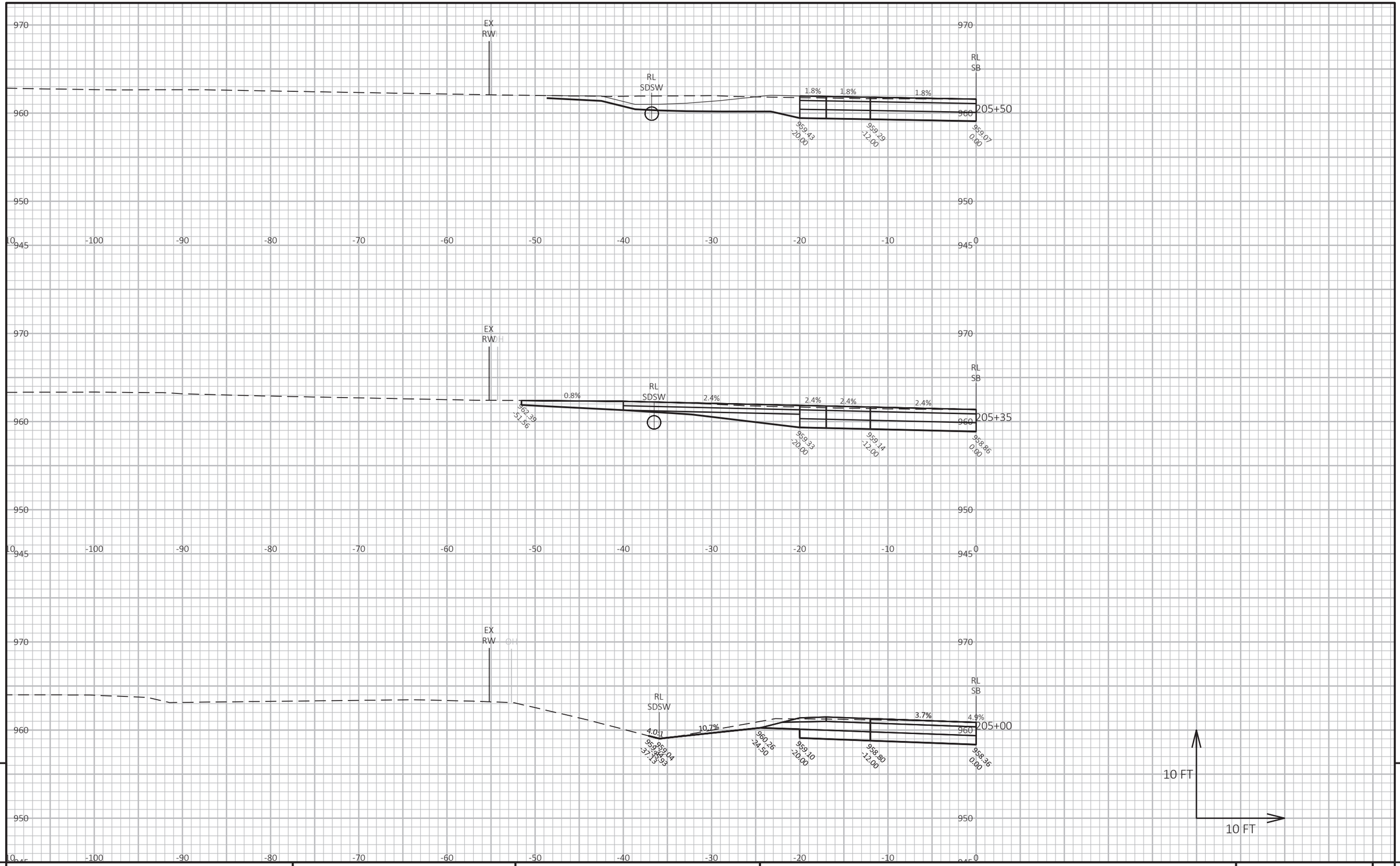
PLOT DATE : 8/13/2021 9:58 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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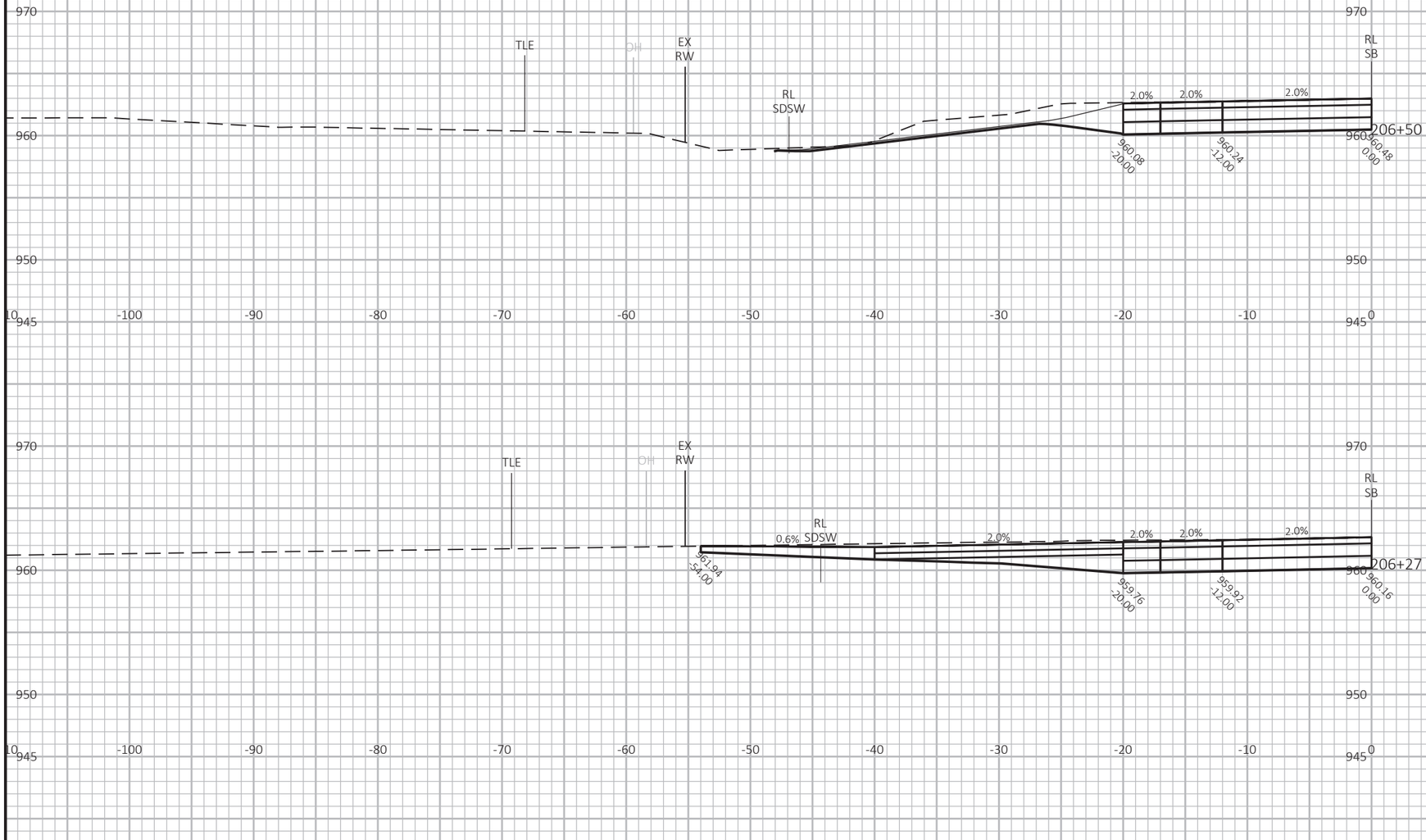
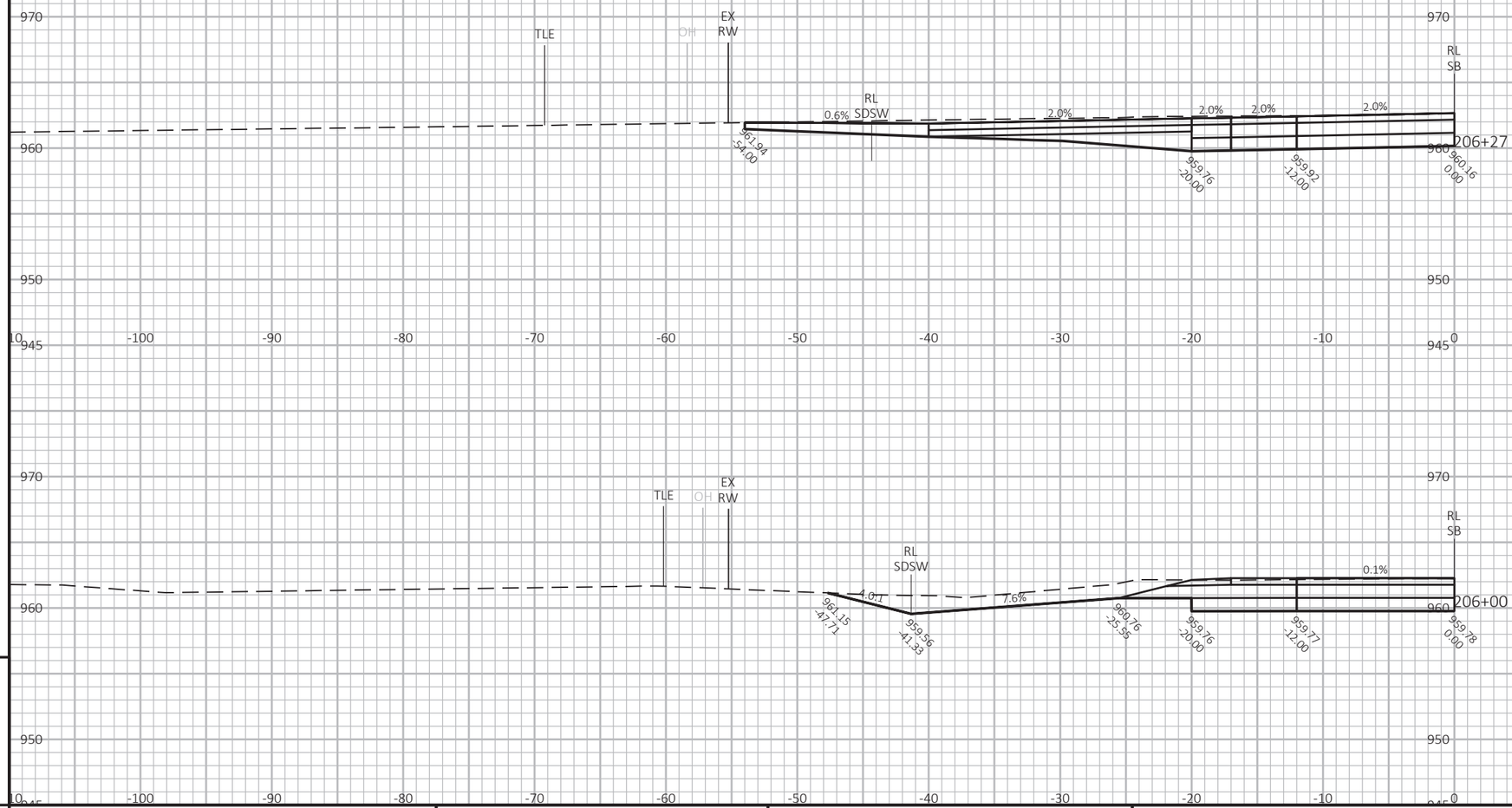
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SB - SOUTH LEG	SHEET 228	E

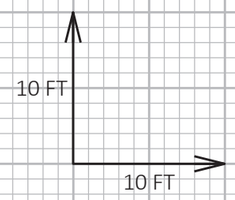
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_SB.DWG
LAYOUT NAME - 090201_SB1

PLOT DATE : 9/4/2021 4:10 PM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SB - SOUTH LEG	SHEET 229	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_SB.DWG
LAYOUT NAME - 090201_SB2

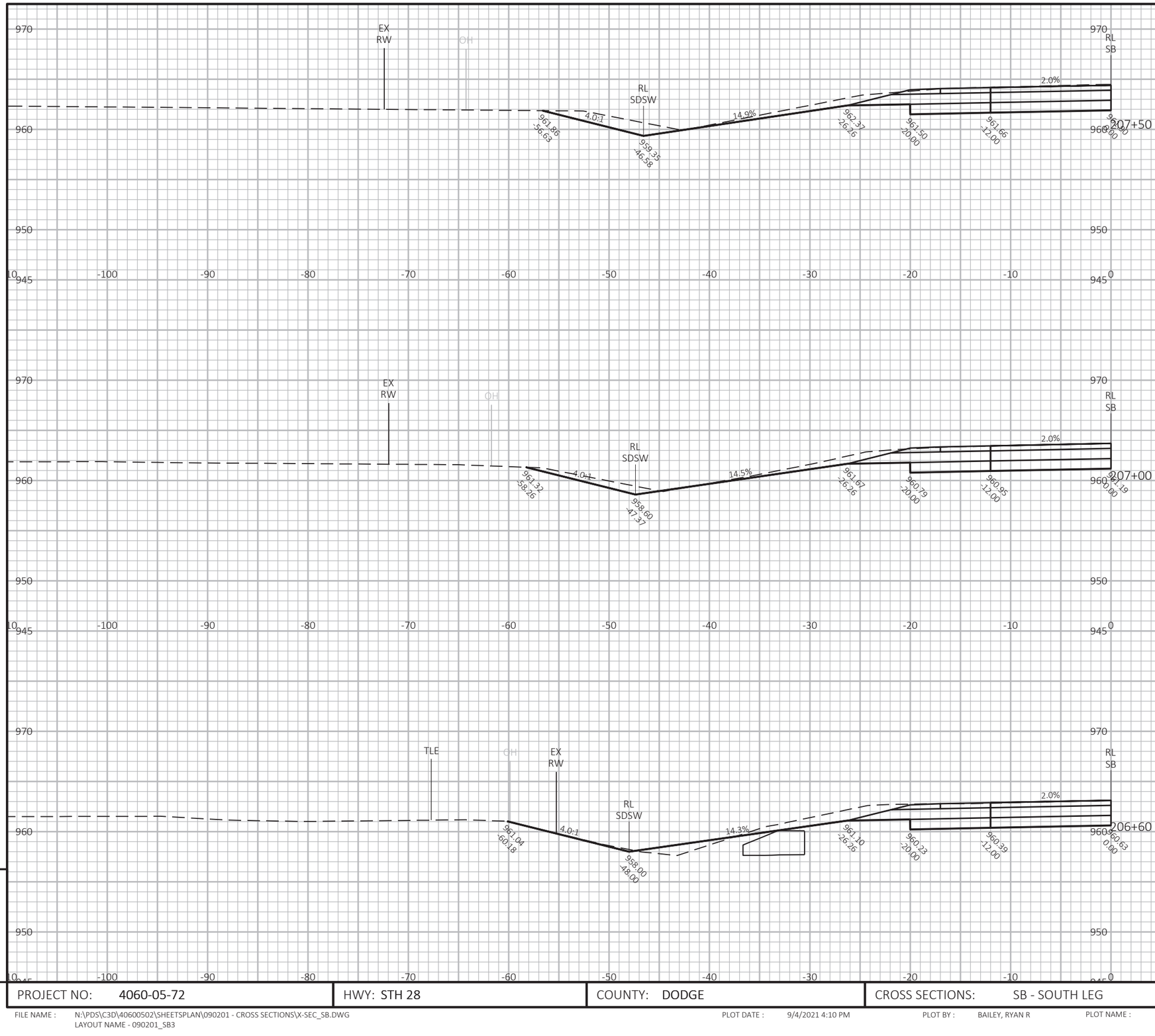
PLOT DATE : 9/4/2021 4:10 PM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

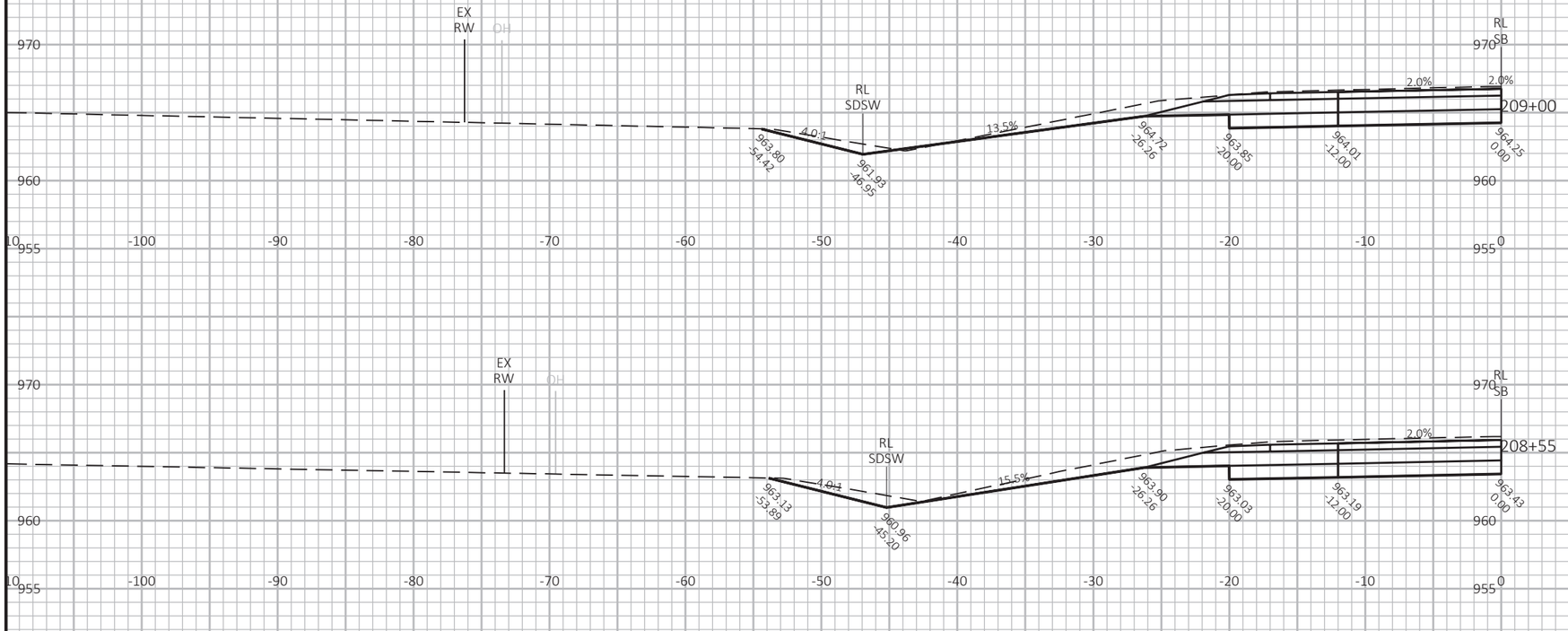


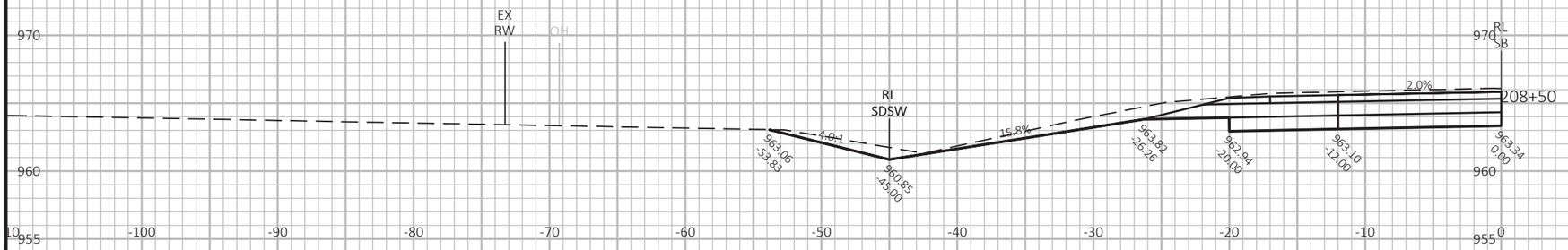
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SB - SOUTH LEG	SHEET 230	E

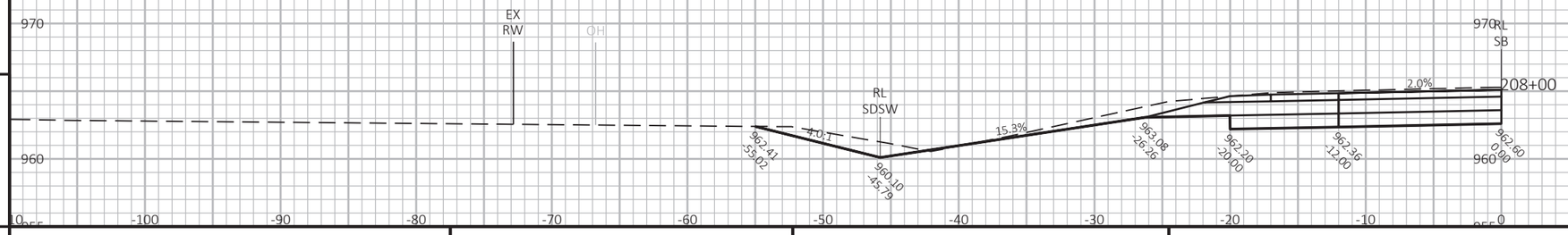
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_SB.DWG
LAYOUT NAME - 090201_SB3

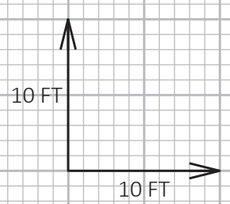
PLOT DATE : 9/4/2021 4:10 PM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49









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9

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SB - SOUTH LEG	SHEET 231	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_SB.DWG
LAYOUT NAME - 090201_SB4

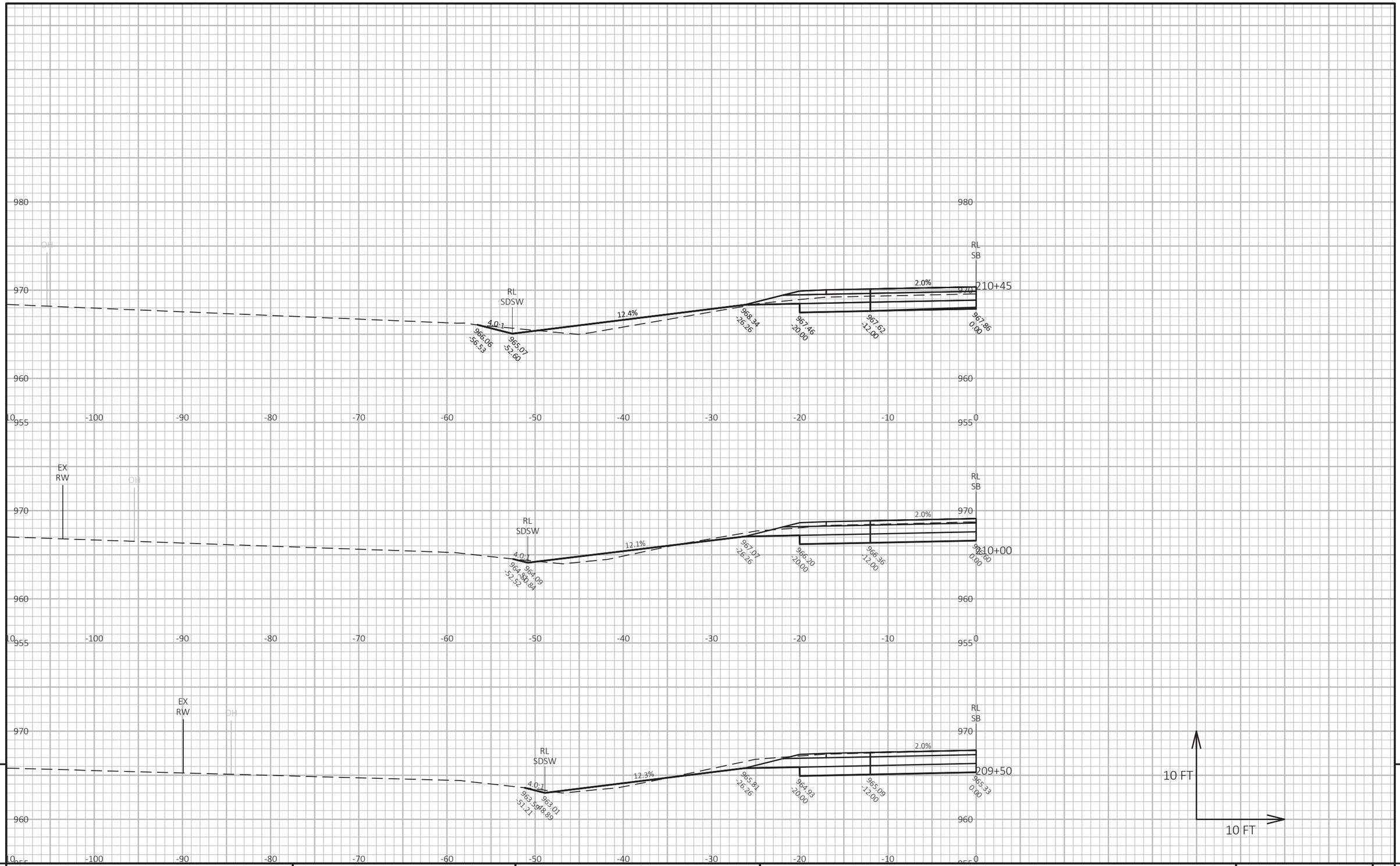
PLOT DATE : 9/4/2021 4:10 PM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SB - SOUTH LEG	SHEET 232	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_SB.DWG
LAYOUT NAME - 090201_SB5

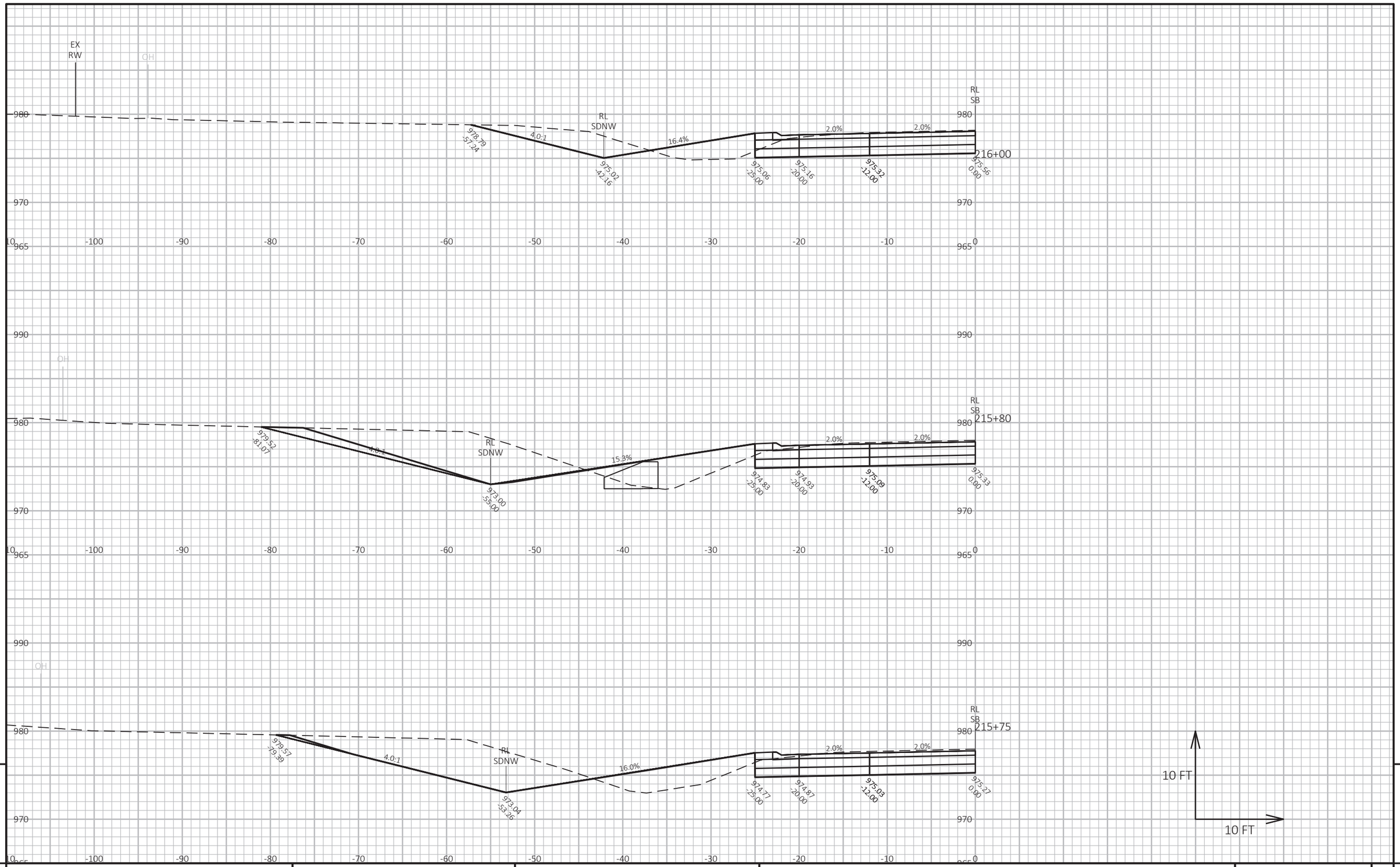
PLOT DATE : 9/4/2021 4:10 PM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SB - NORTH LEG	SHEET 233	E

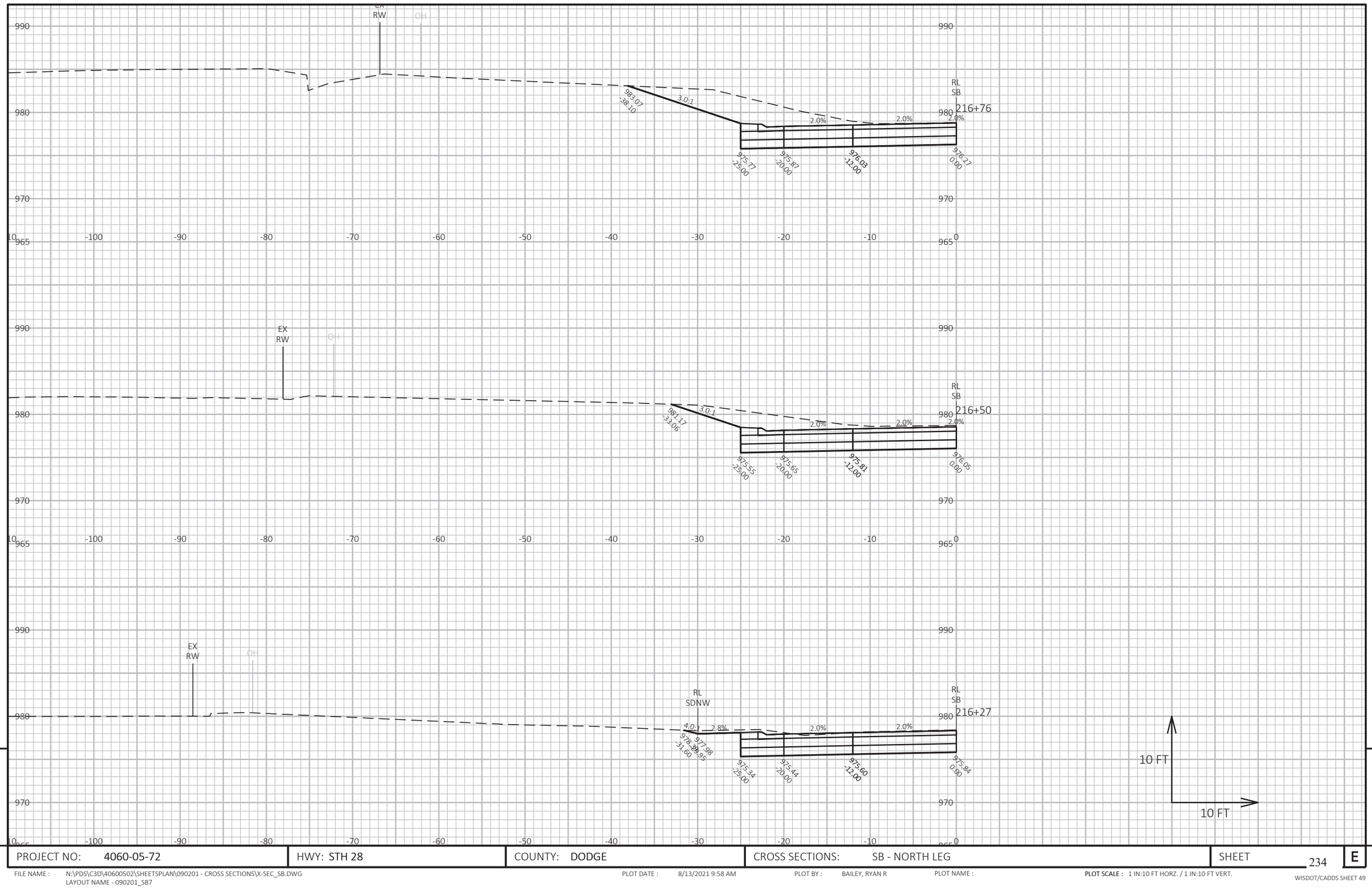
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_SB.DWG
LAYOUT NAME - 090201_SB6

PLOT DATE : 8/13/2021 9:58 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SB - NORTH LEG	SHEET 234 E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_SB.DWG
LAYOUT NAME - 090201_SB7

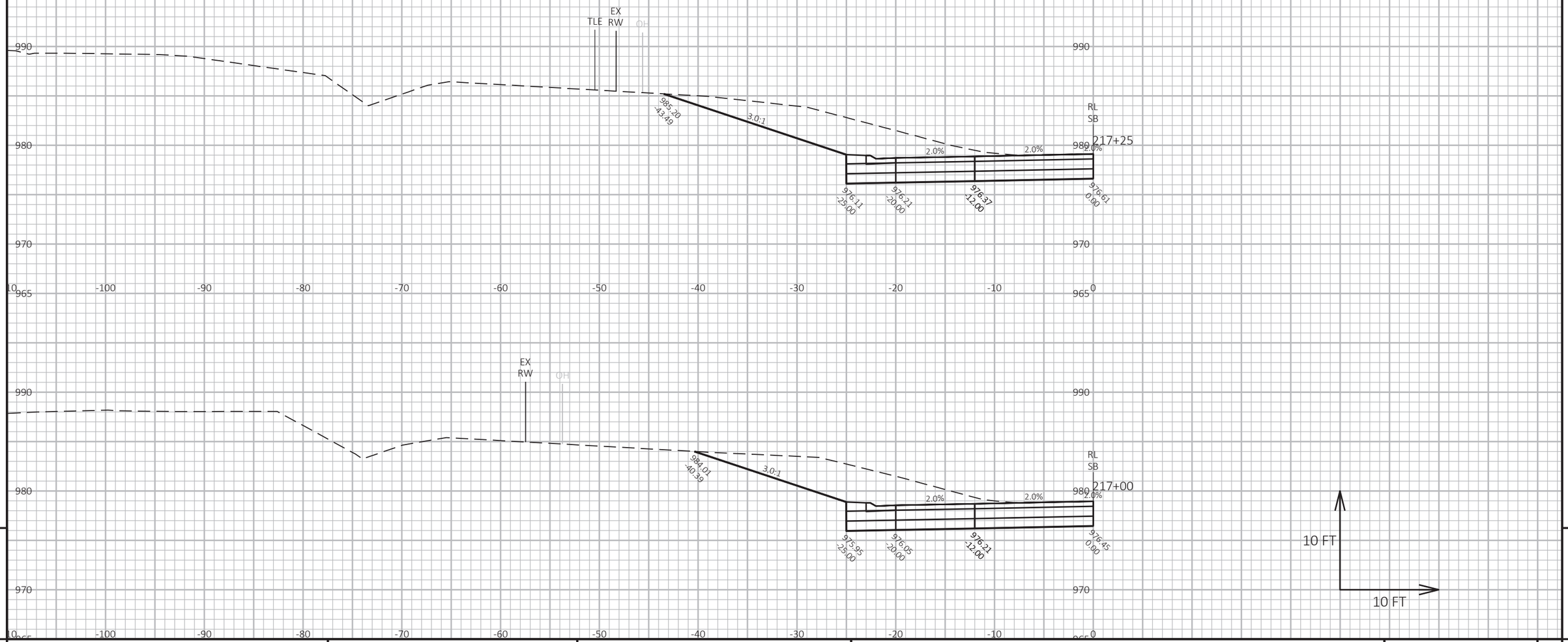
PLOT DATE : 8/13/2021 9:58 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SB - NORTH LEG	SHEET 235	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_SB.DWG
LAYOUT NAME - 090201_SB8

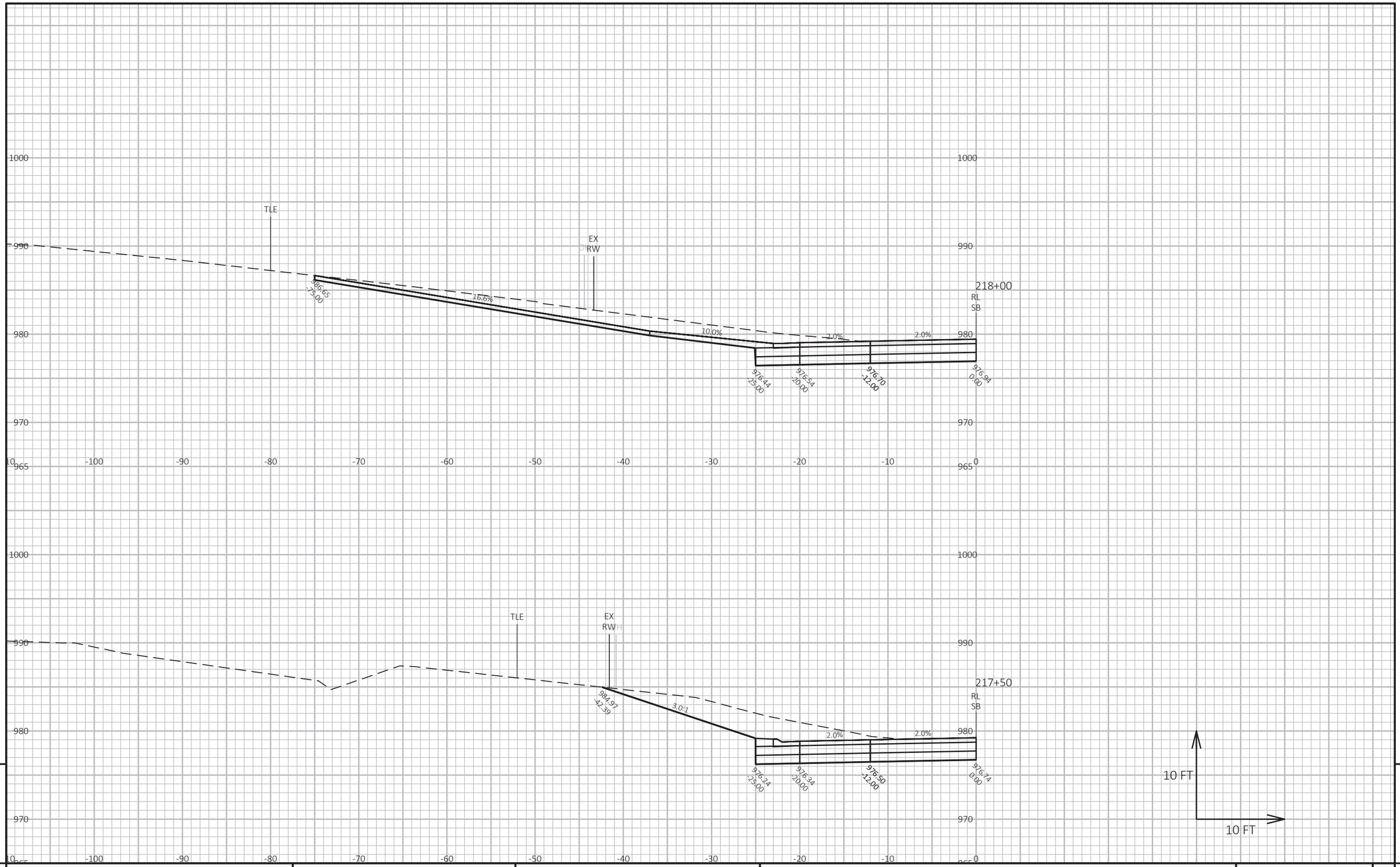
PLOT DATE : 8/13/2021 9:58 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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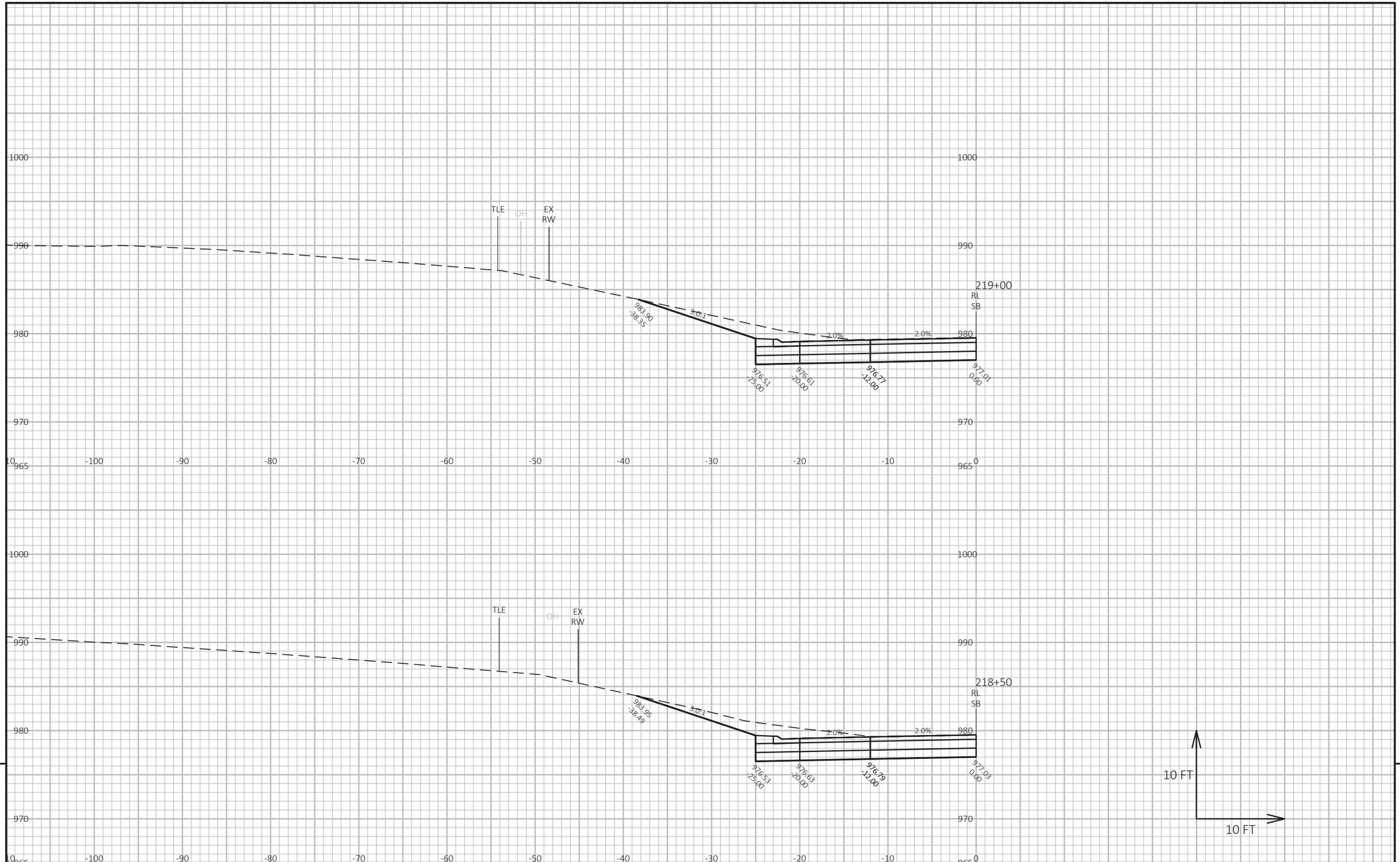
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SB - NORTH LEG	SHEET 236	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_SB.DWG
LAYOUT NAME - 090201_SB9

PLOT DATE : 8/13/2021 9:59 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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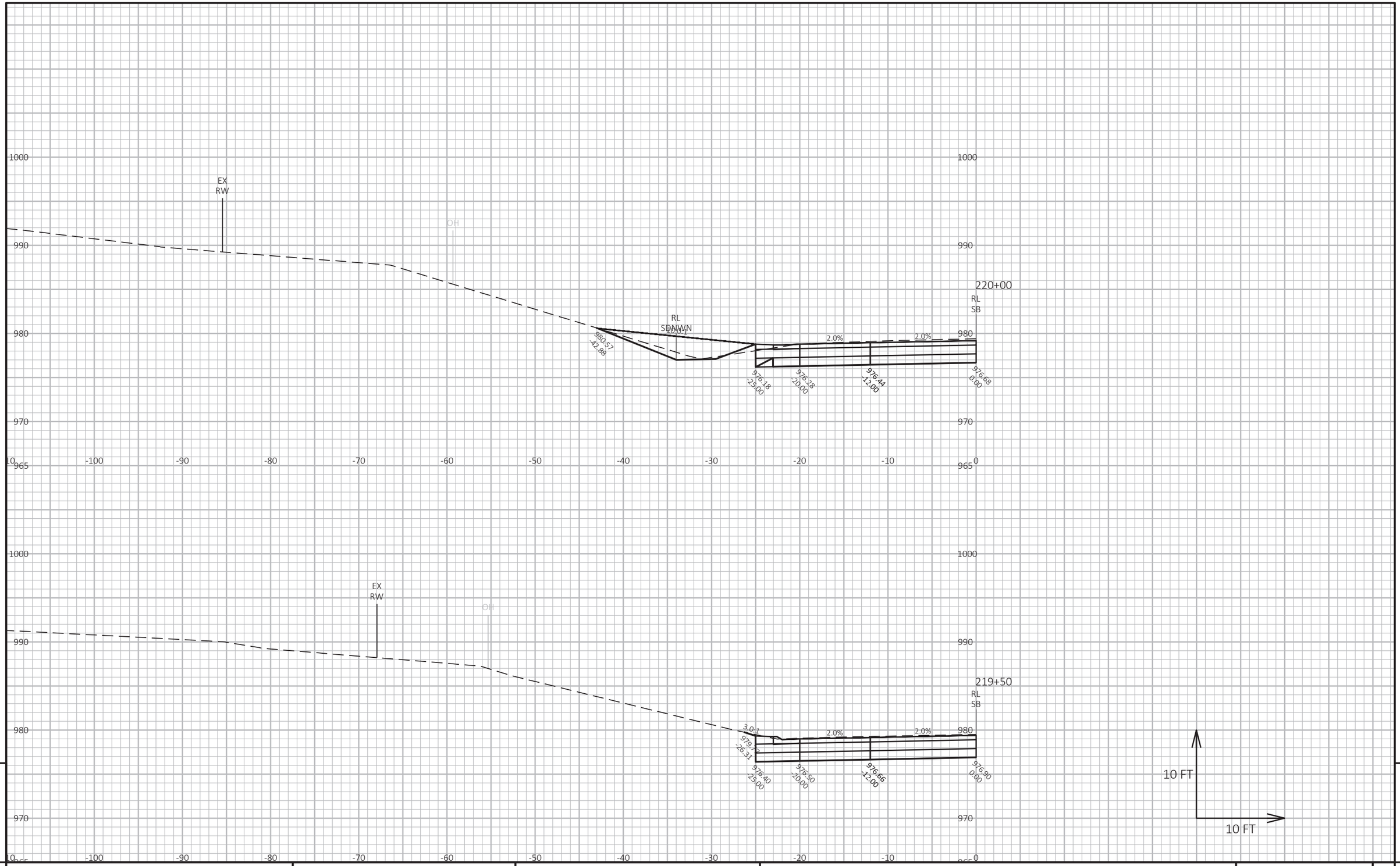
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SB - NORTH LEG	SHEET 237	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_SB.DWG
LAYOUT NAME - 090201_SB10

PLOT DATE : 8/13/2021 9:59 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SB - NORTH LEG	SHEET 238	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_SB.DWG
LAYOUT NAME - 090201_SB11

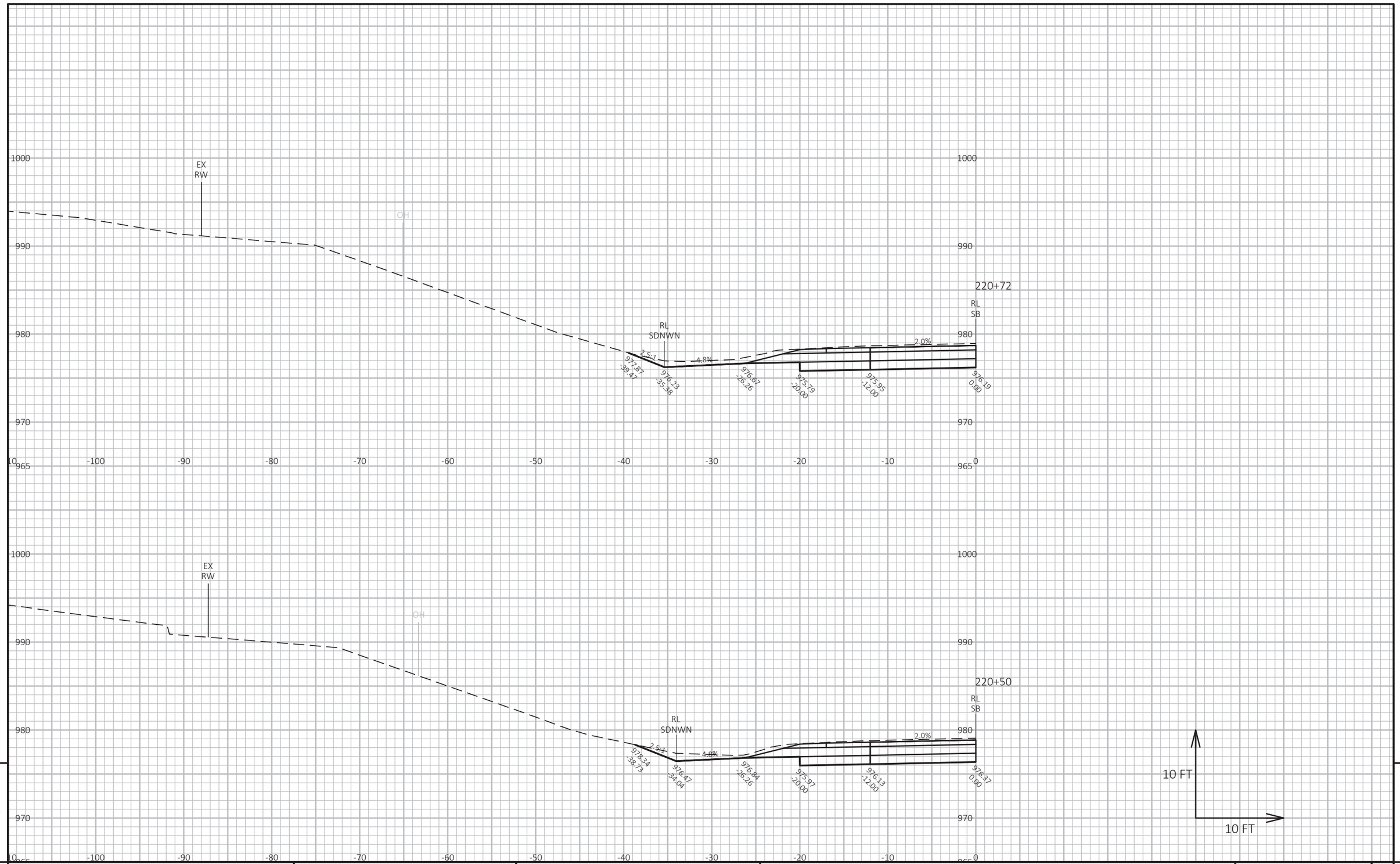
PLOT DATE : 8/13/2021 9:59 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SB - NORTH LEG	SHEET 239	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_SB.DWG
LAYOUT NAME - 090201_SB12

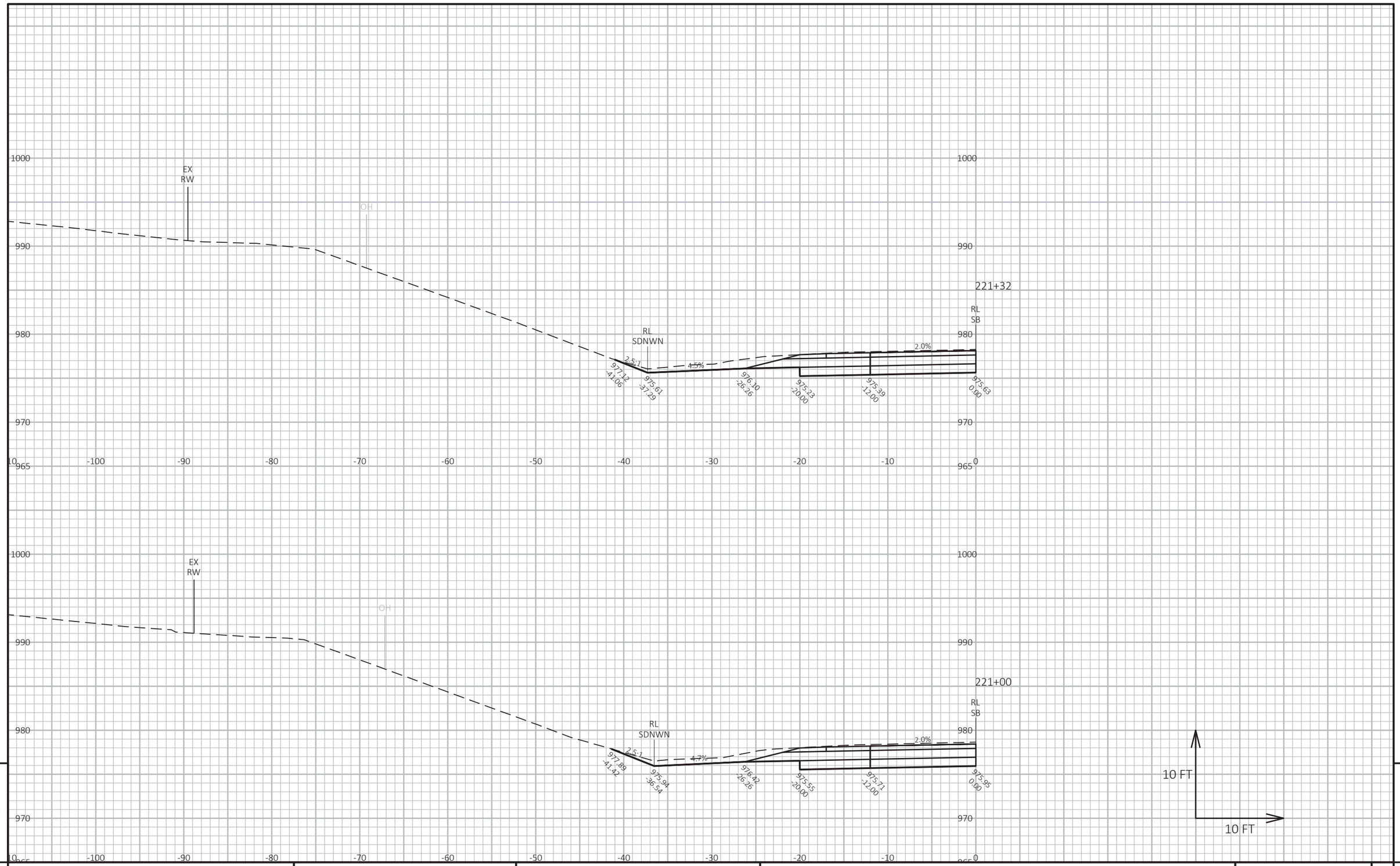
PLOT DATE : 8/13/2021 9:59 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SB - NORTH LEG	SHEET 240	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_SB.DWG
LAYOUT NAME - 090201_SB13

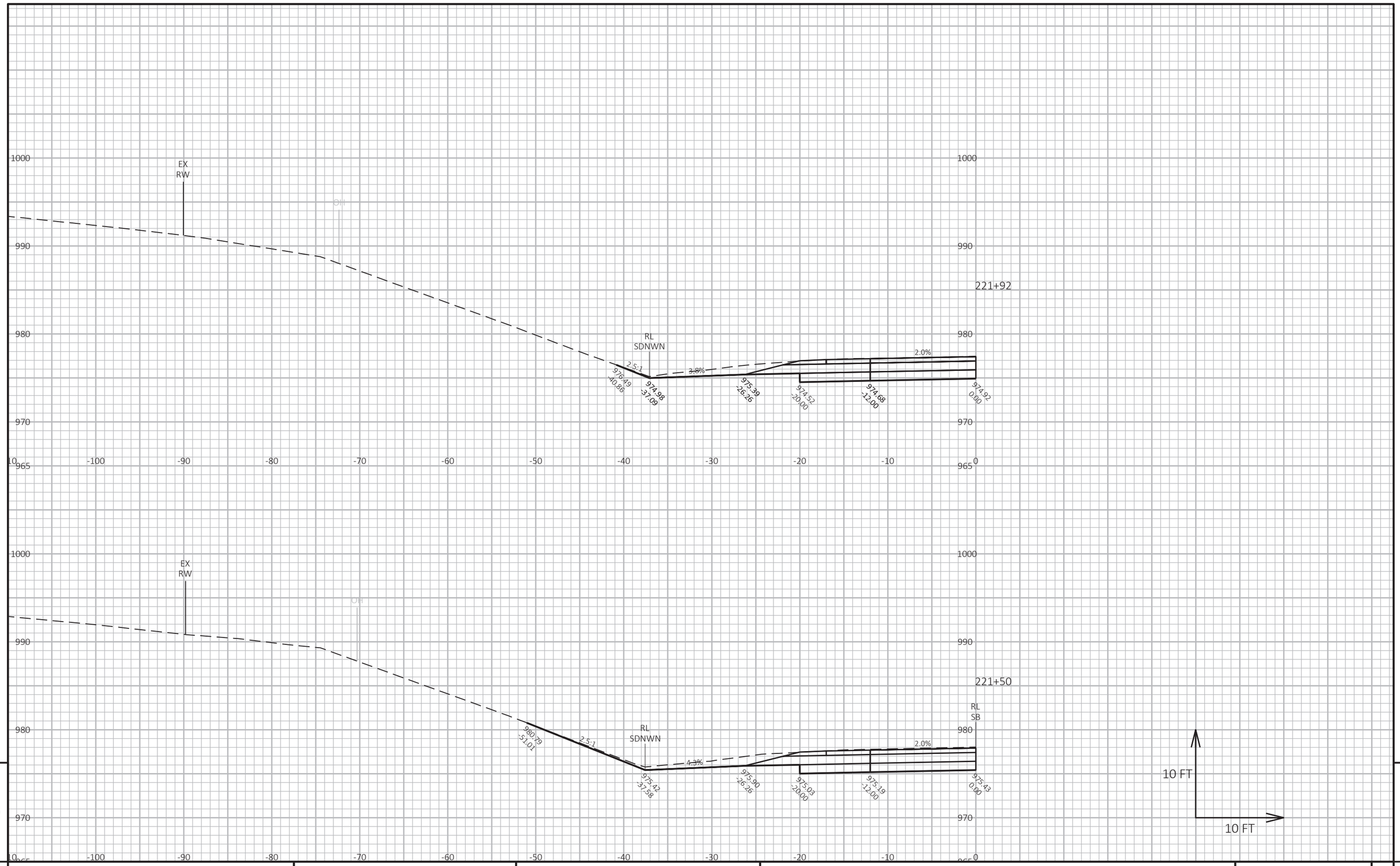
PLOT DATE : 8/13/2021 9:59 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SB - NORTH LEG	SHEET 241	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_SB.DWG
LAYOUT NAME - 090201_SB14

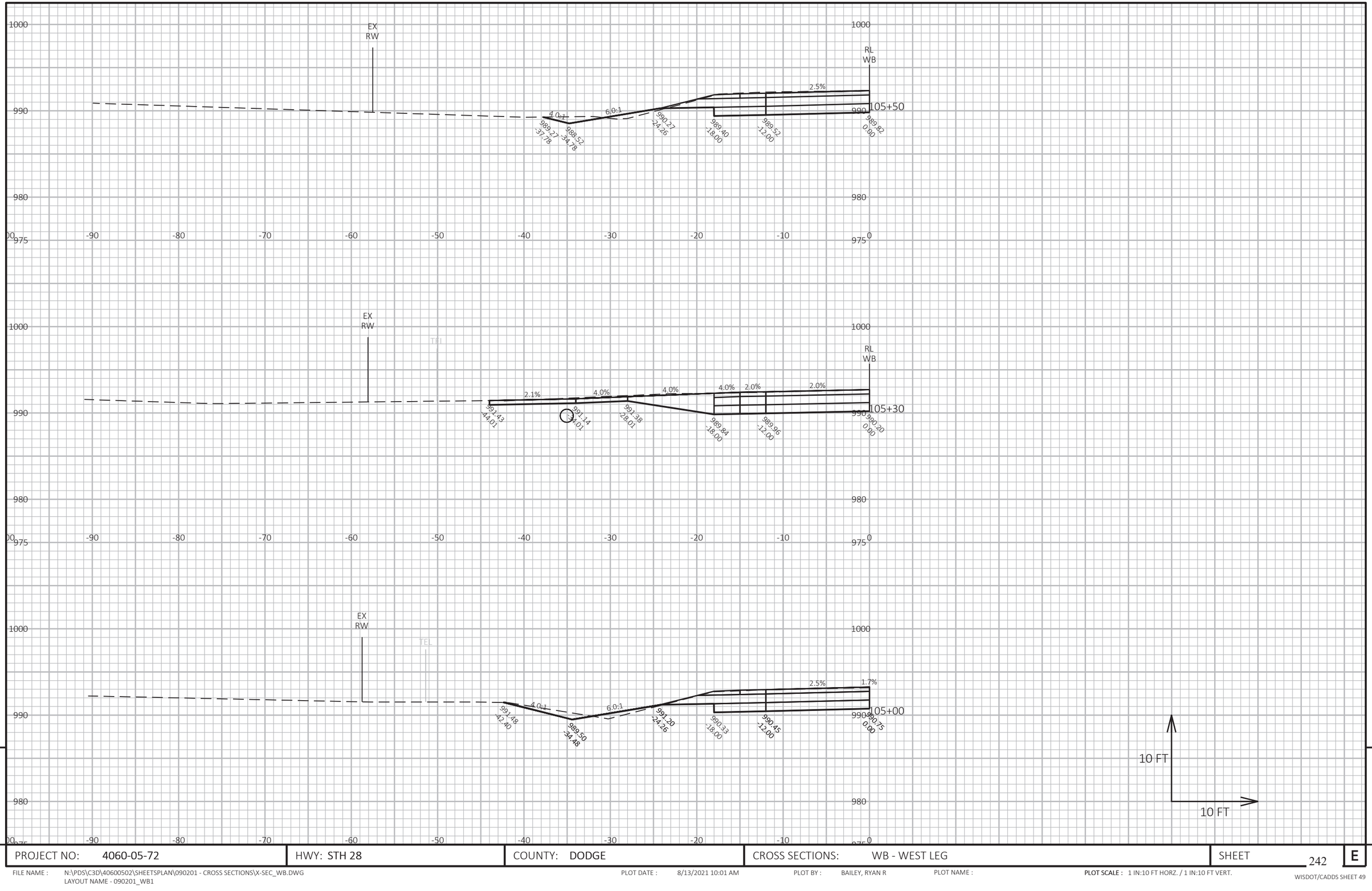
PLOT DATE : 8/13/2021 9:59 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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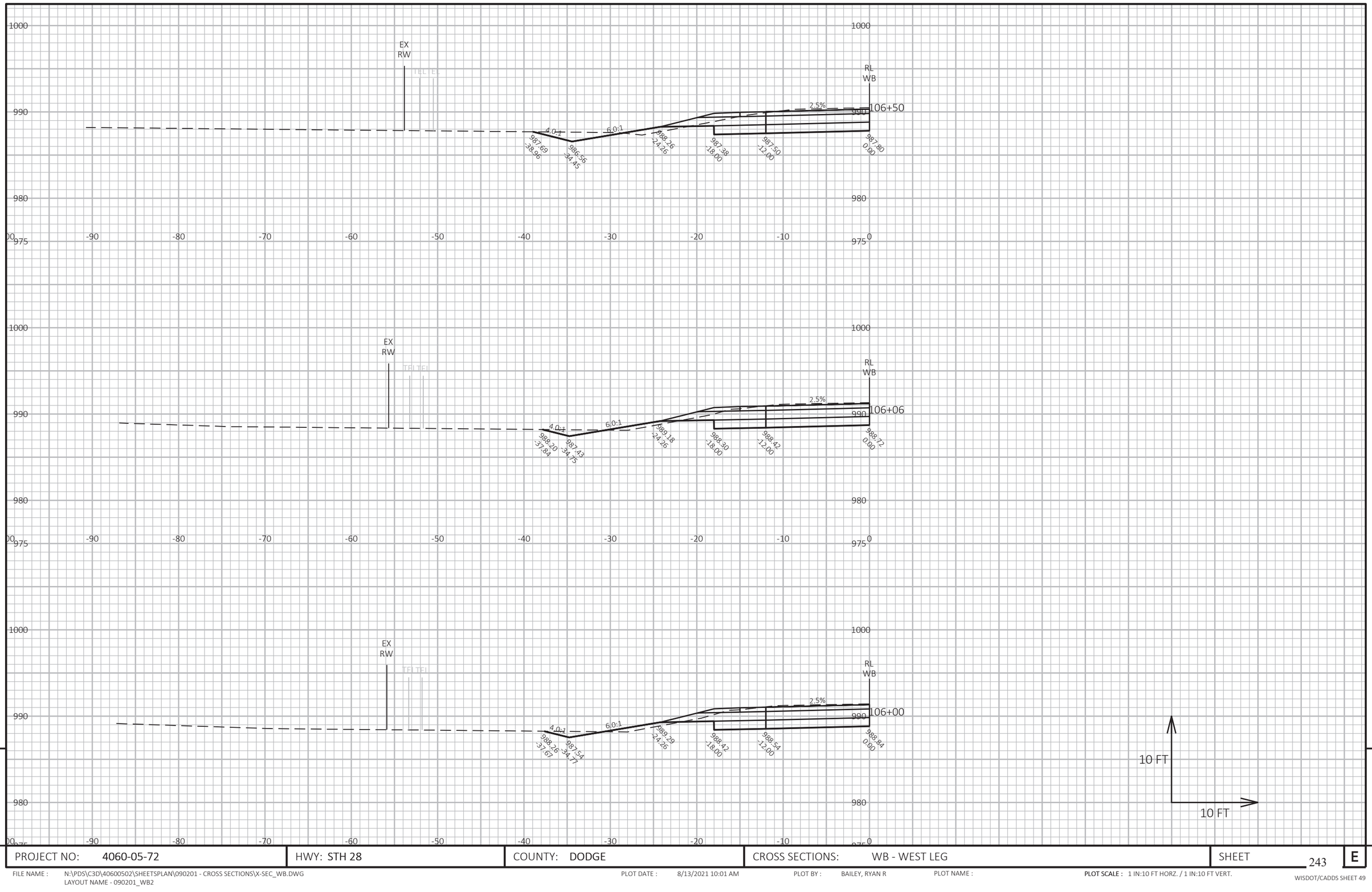
9

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: WB - WEST LEG	SHEET 242	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_WB.DWG
LAYOUT NAME - 090201_WB1

PLOT DATE : 8/13/2021 10:01 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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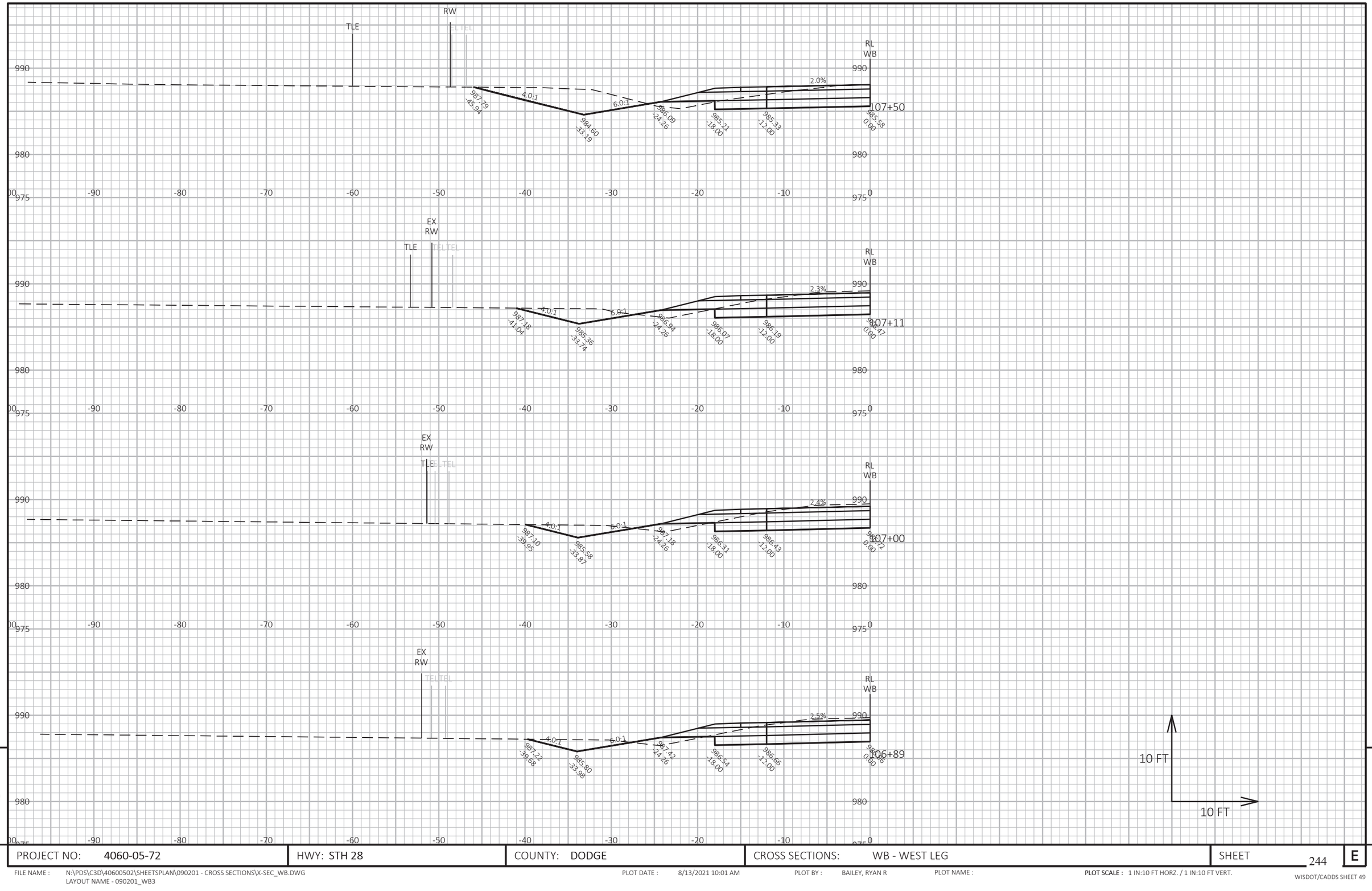
9

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: WB - WEST LEG	SHEET 243	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_WB.DWG
LAYOUT NAME - 090201_WB2

PLOT DATE : 8/13/2021 10:01 AM PLOT BY : BAILEY, RYAN R PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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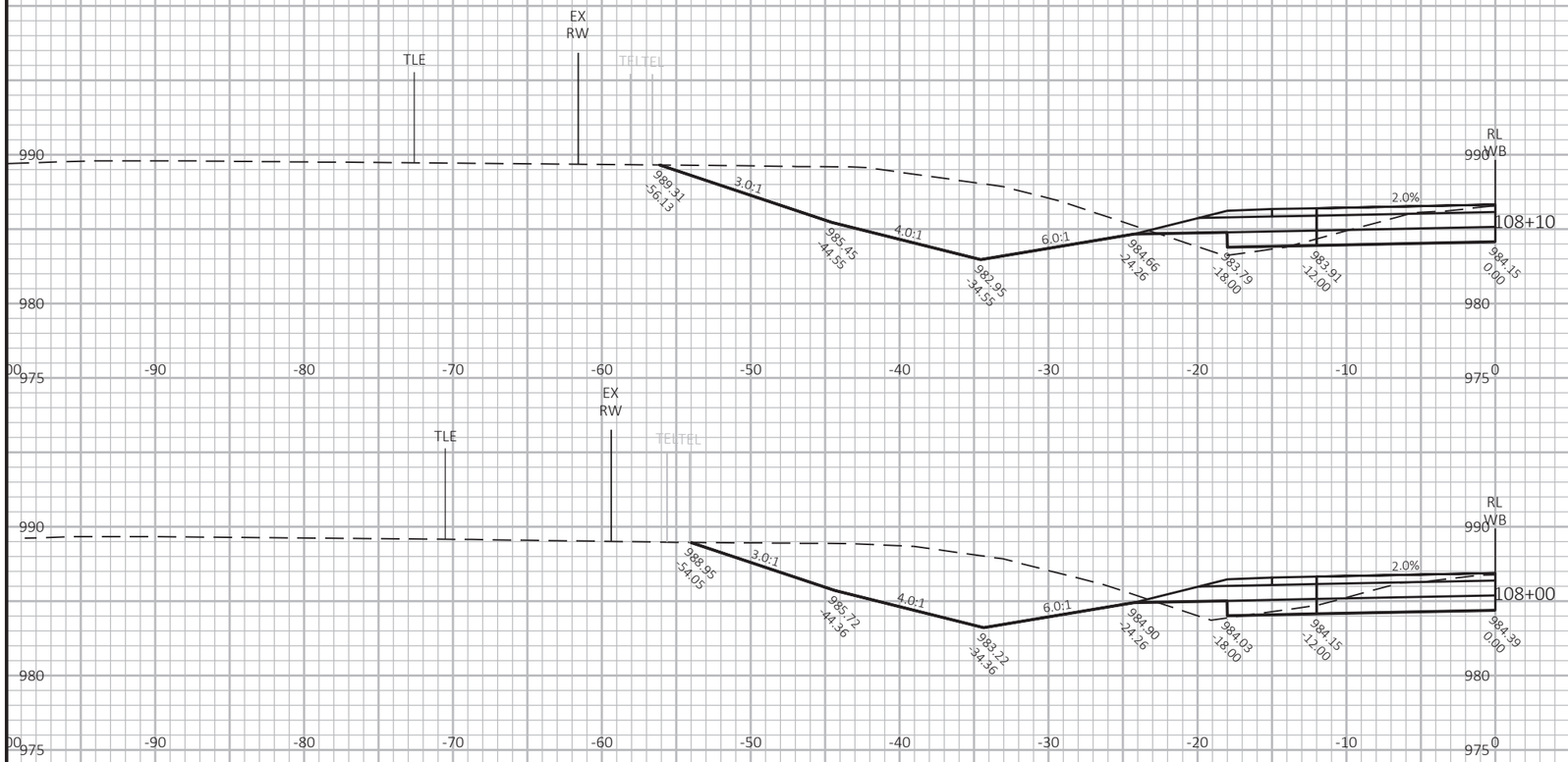
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: WB - WEST LEG	SHEET 244	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_WB.DWG
LAYOUT NAME - 090201_WB3

PLOT DATE : 8/13/2021 10:01 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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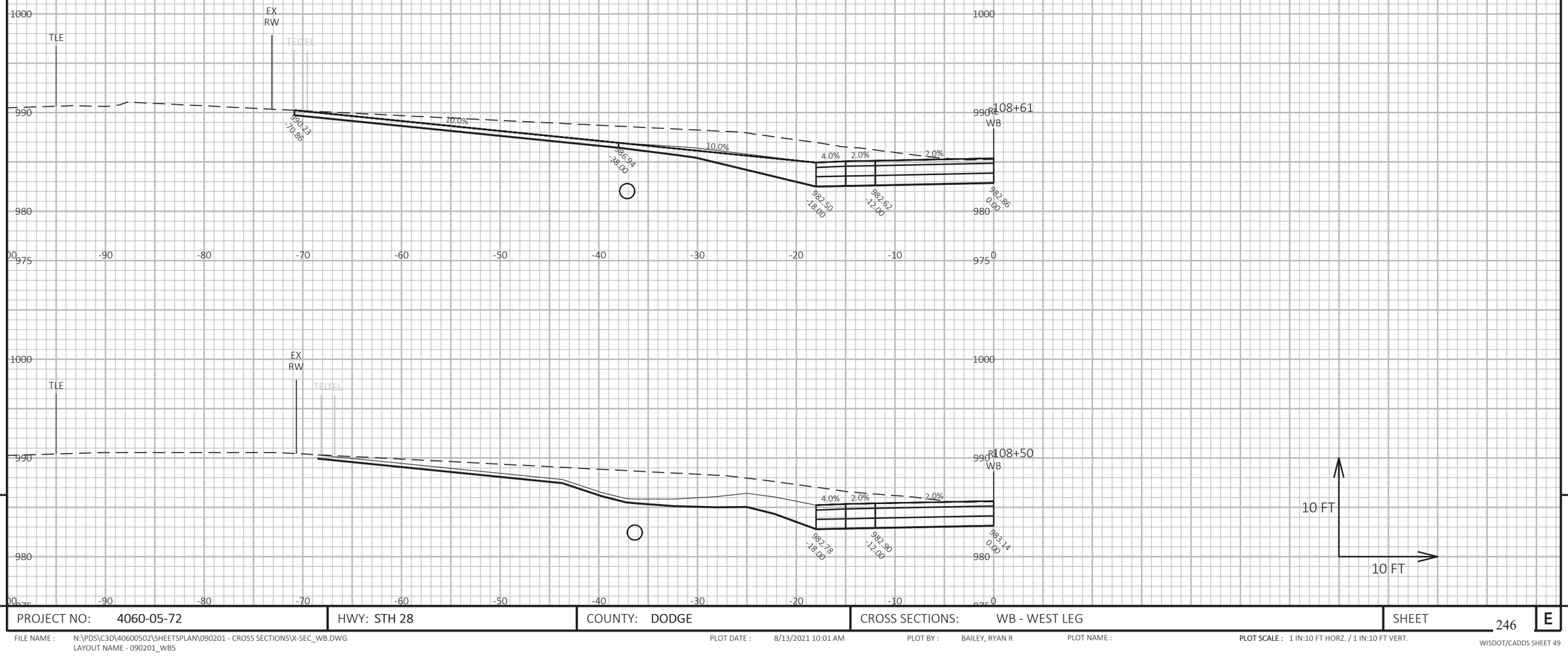
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: WB - WEST LEG	SHEET 245	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_WB.DWG
LAYOUT NAME - 090201_WB4

PLOT DATE : 8/13/2021 10:01 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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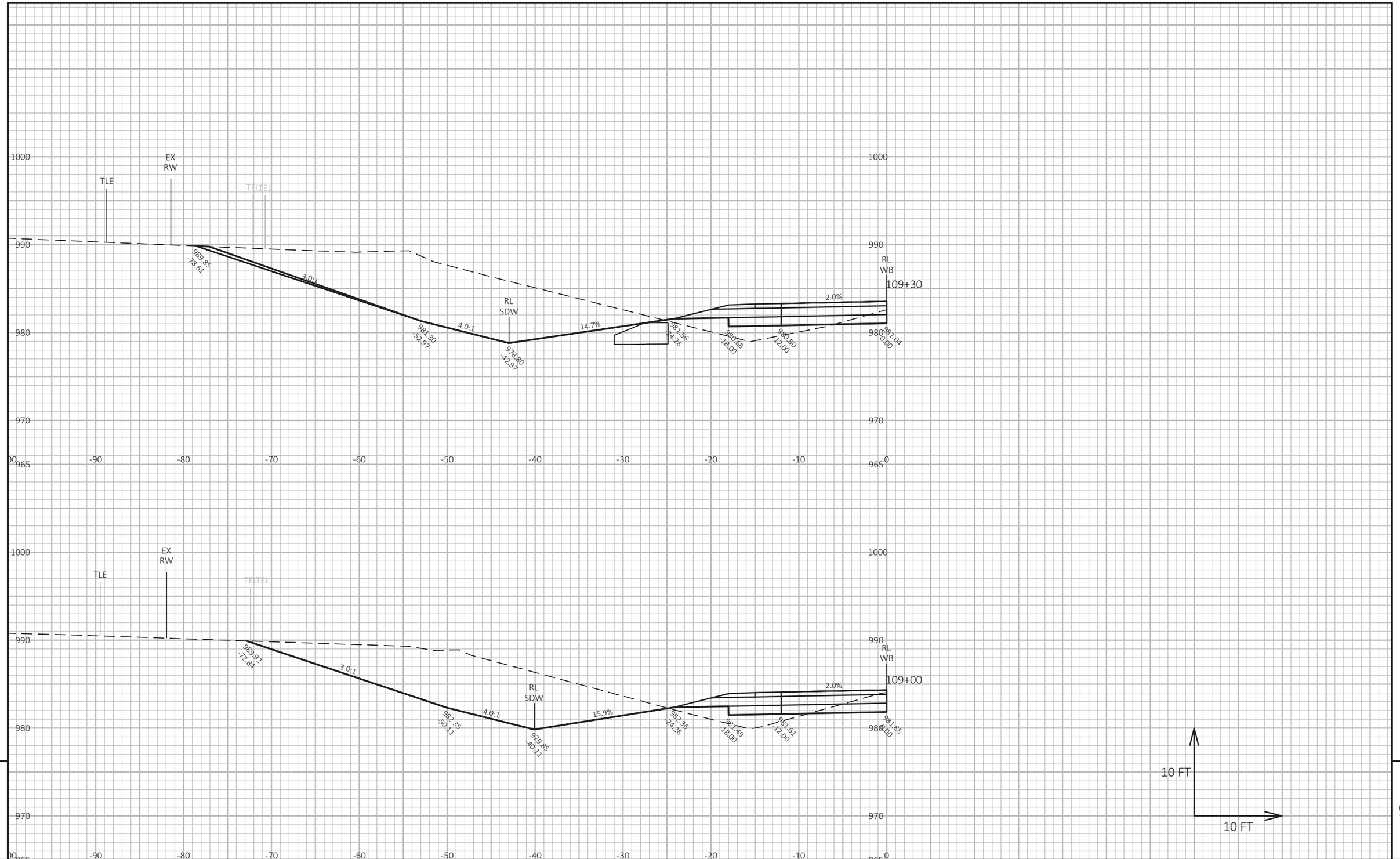
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: WB - WEST LEG	SHEET 246	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_WB.DWG
LAYOUT NAME - 090201_WB5

PLOT DATE : 8/13/2021 10:01 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

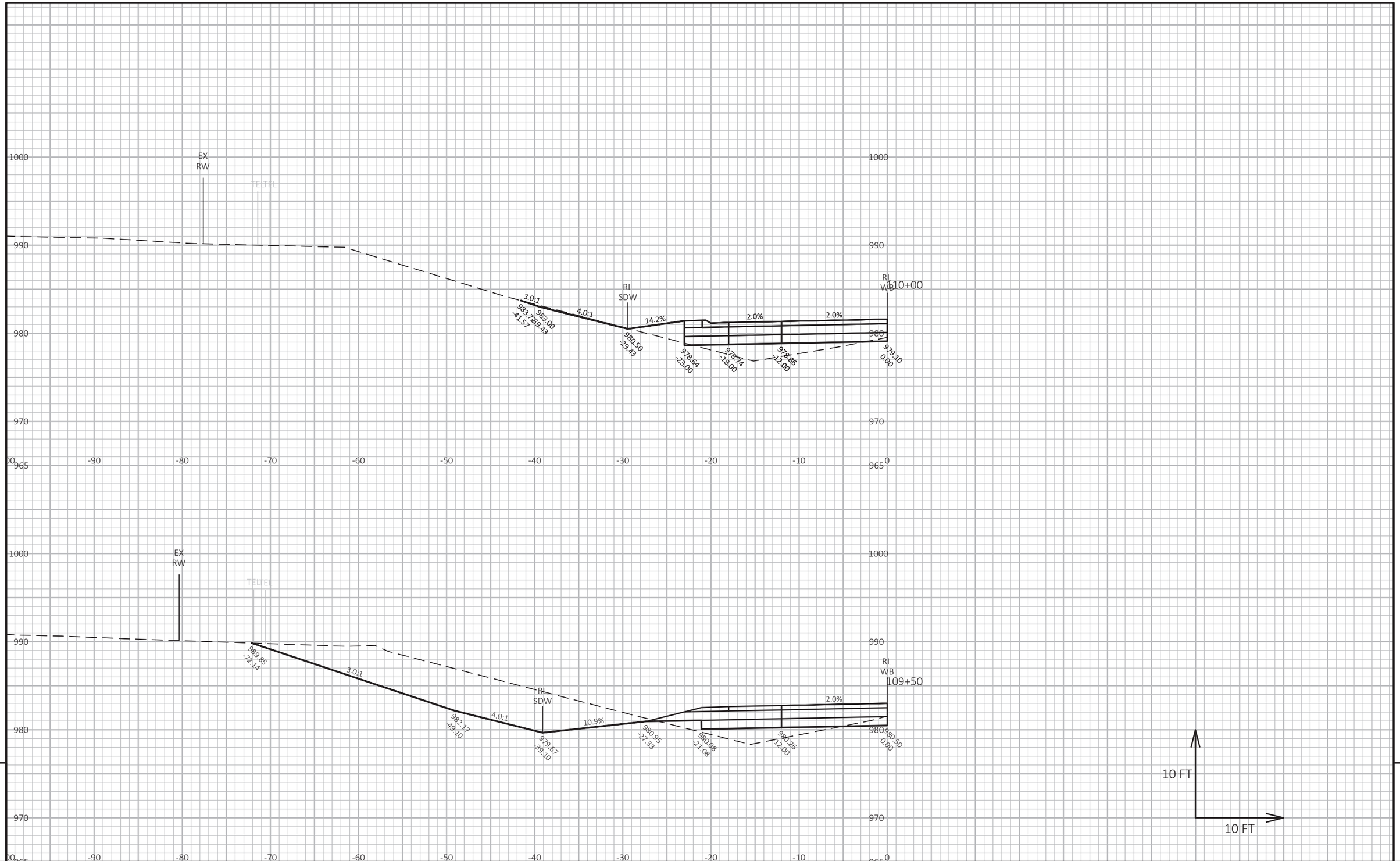
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: WB - WEST LEG	SHEET 247	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_WB.DWG
LAYOUT NAME - 090201_WB6

PLOT DATE : 8/13/2021 10:01 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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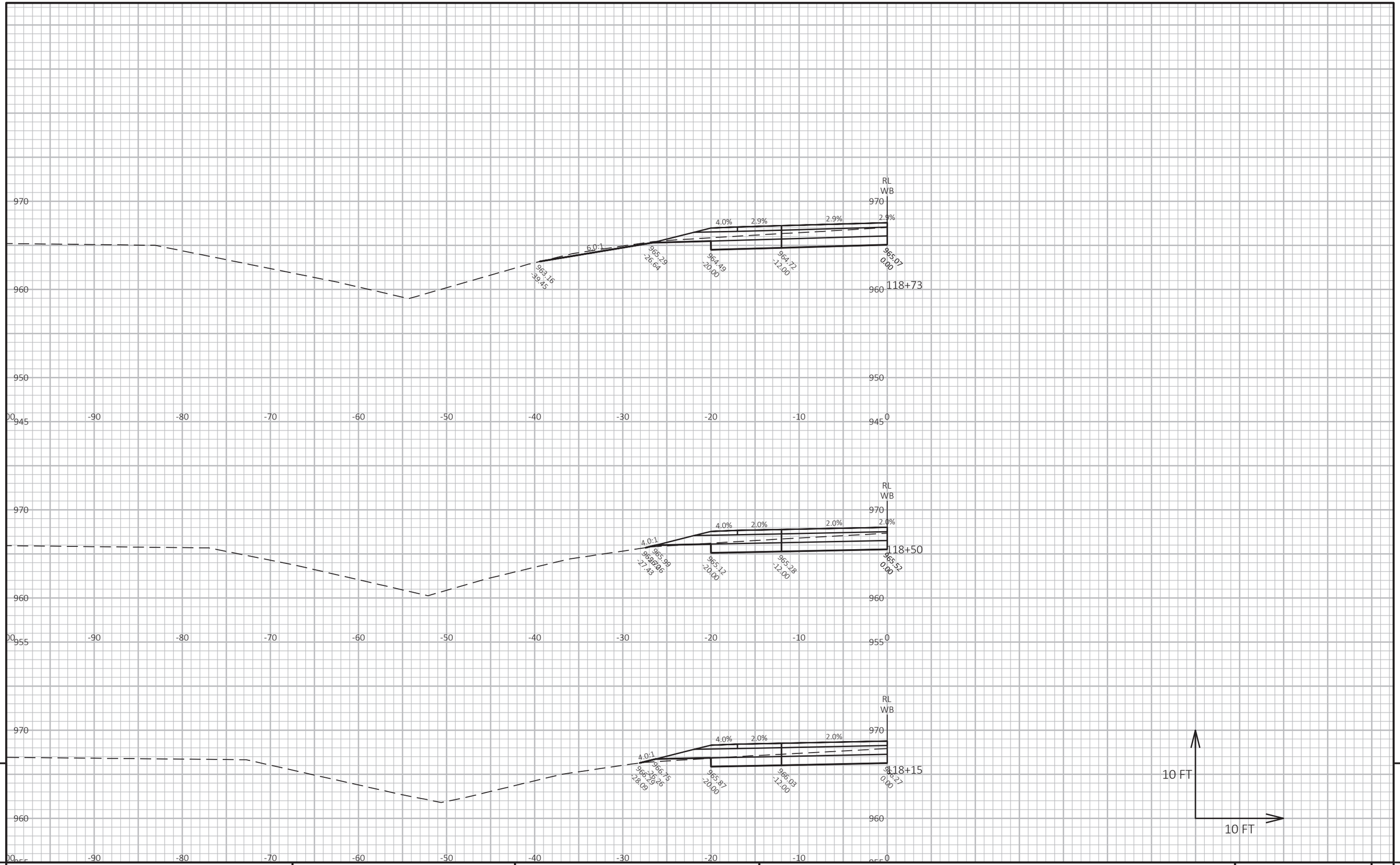
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: WB - WEST LEG	SHEET 248	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_WB.DWG
LAYOUT NAME - 090201_WB7

PLOT DATE : 8/13/2021 10:01 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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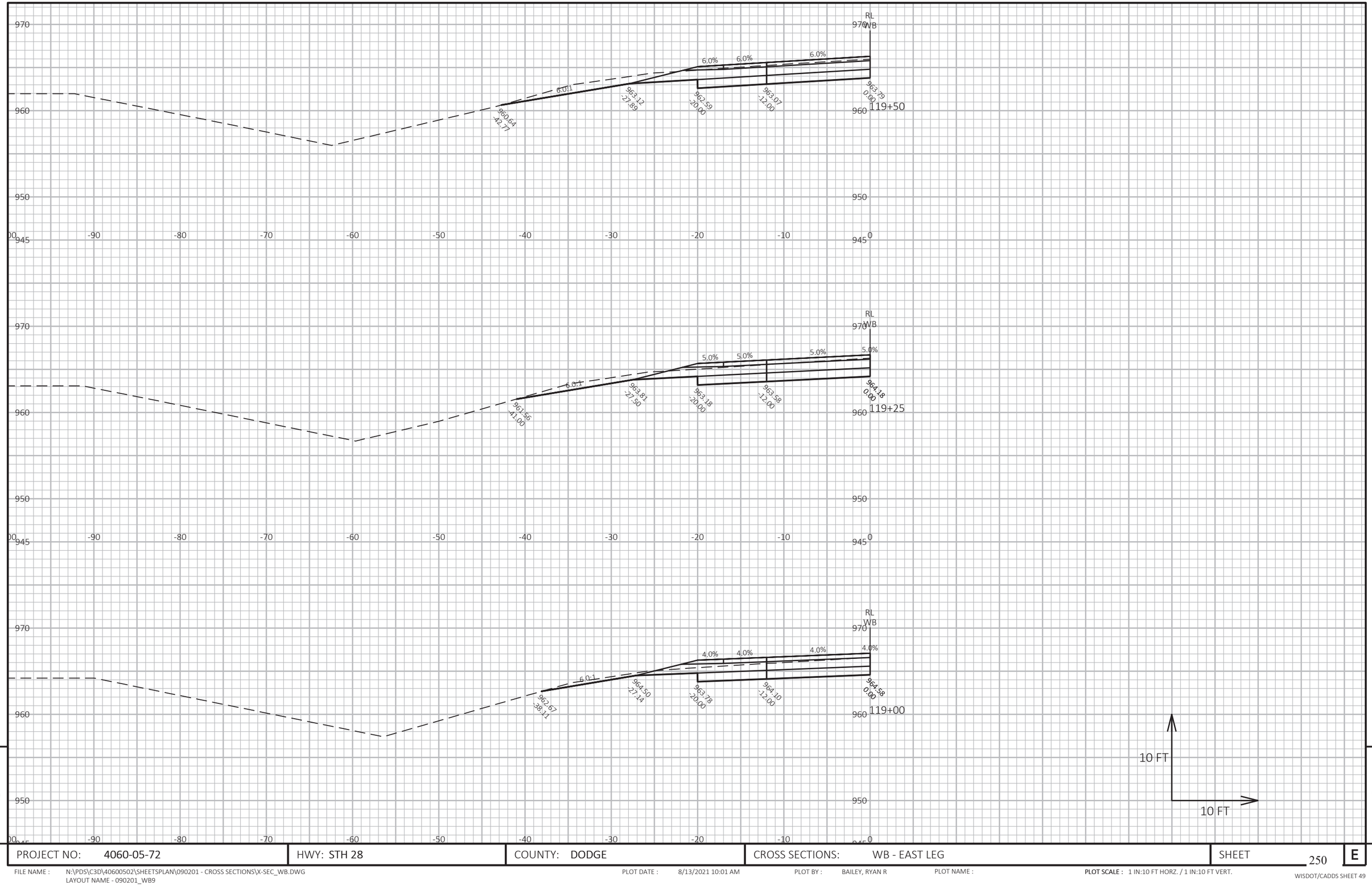
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: WB - EAST LEG	SHEET 249	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_WB.DWG
LAYOUT NAME - 090201_WB8

PLOT DATE : 8/13/2021 10:01 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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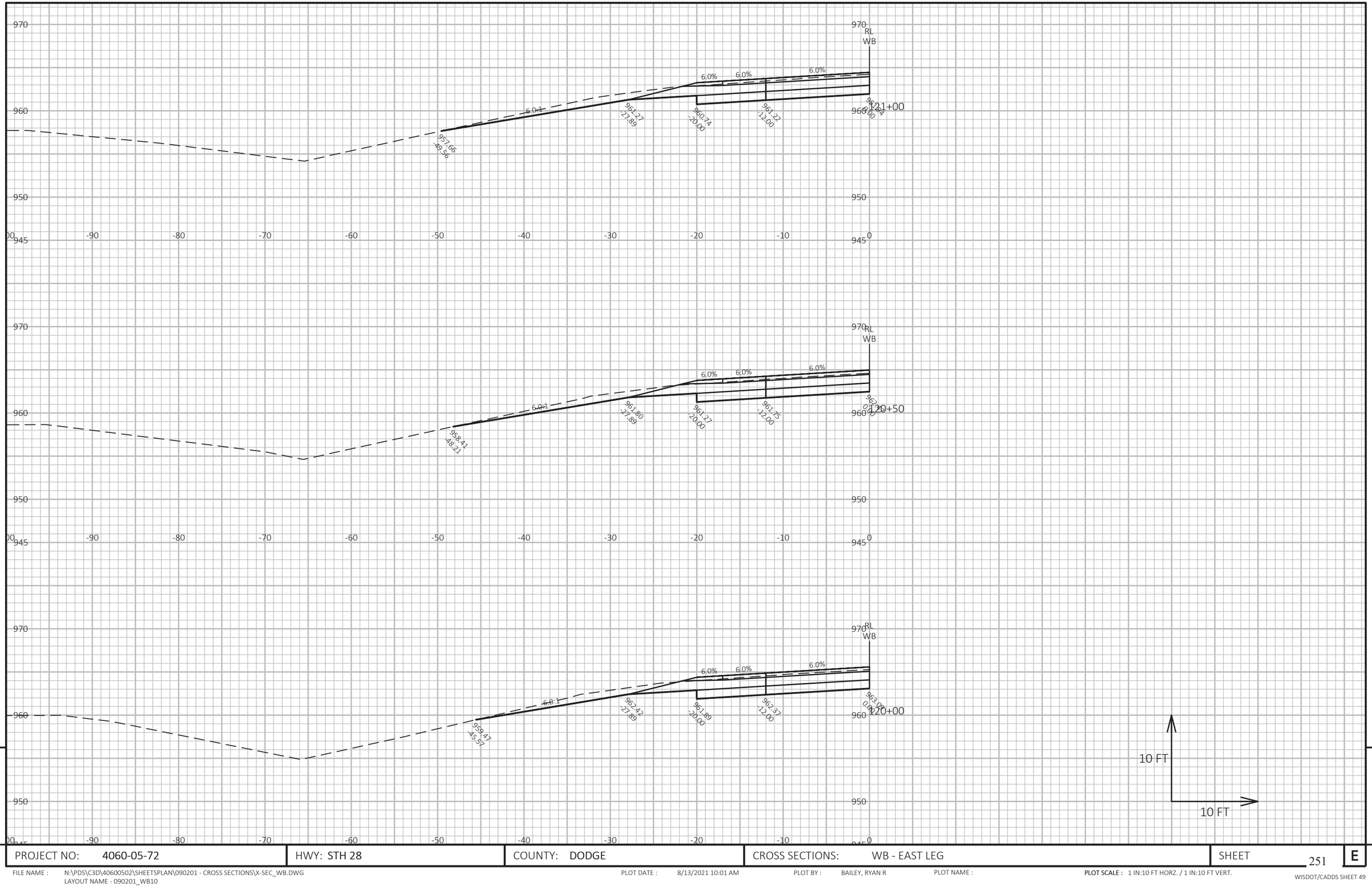
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: WB - EAST LEG	SHEET 250	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_WB.DWG
LAYOUT NAME - 090201_WB9

PLOT DATE : 8/13/2021 10:01 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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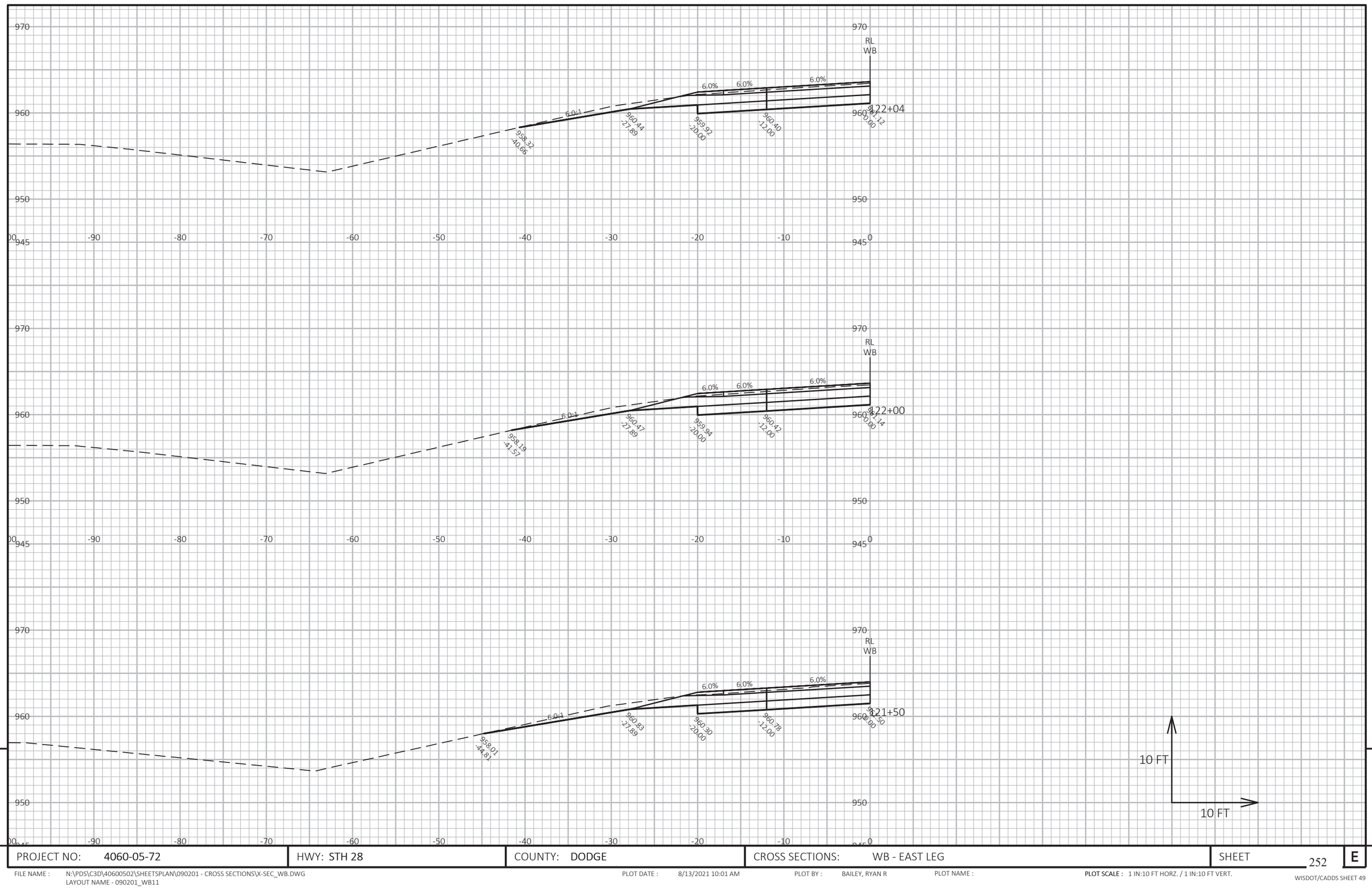
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: WB - EAST LEG	SHEET 251	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_WB.DWG
LAYOUT NAME - 090201_WB10

PLOT DATE : 8/13/2021 10:01 AM PLOT BY : BAILEY, RYAN R PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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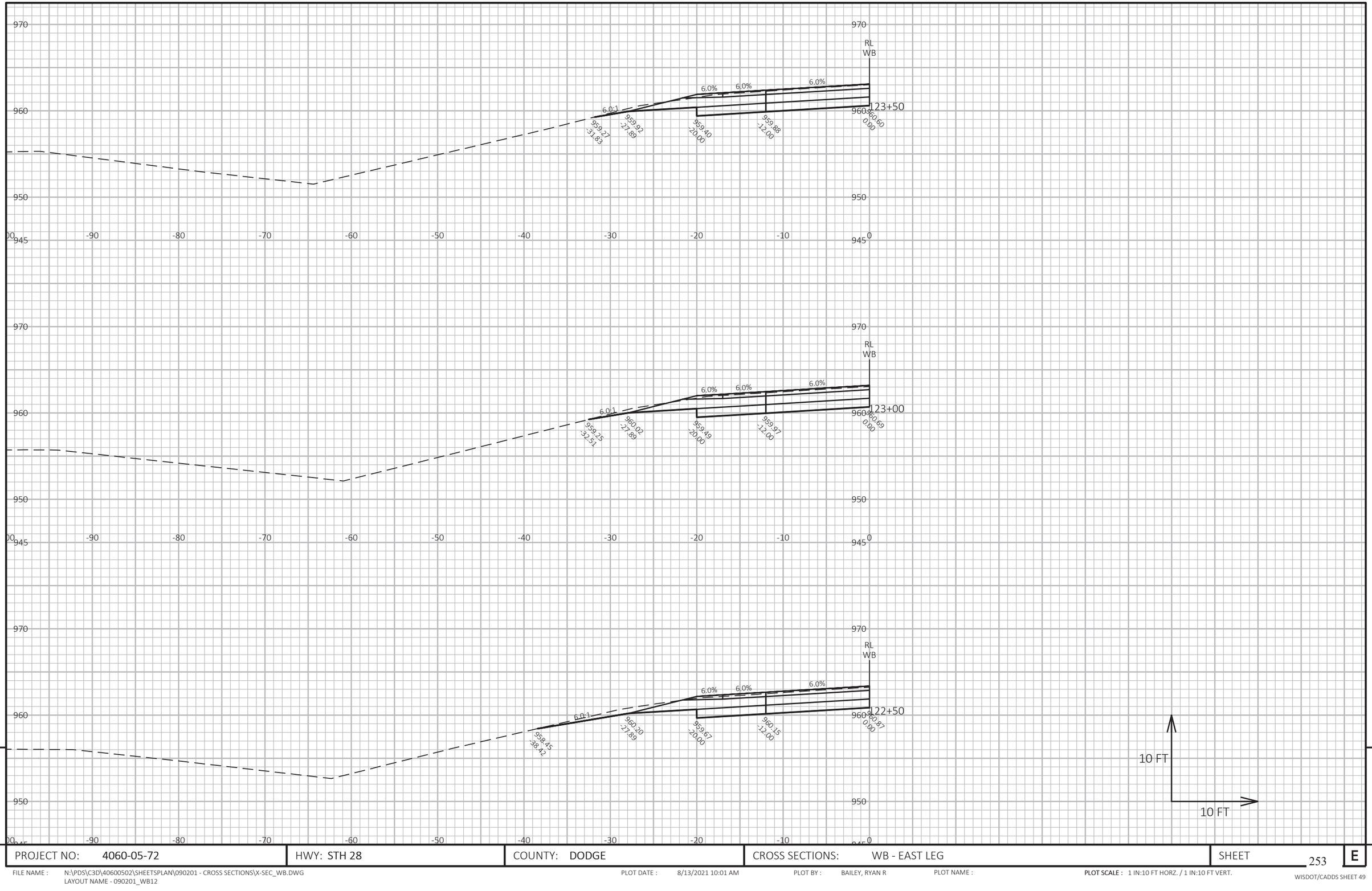
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: WB - EAST LEG	SHEET 252	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_WB.DWG
LAYOUT NAME - 090201_WB11

PLOT DATE : 8/13/2021 10:01 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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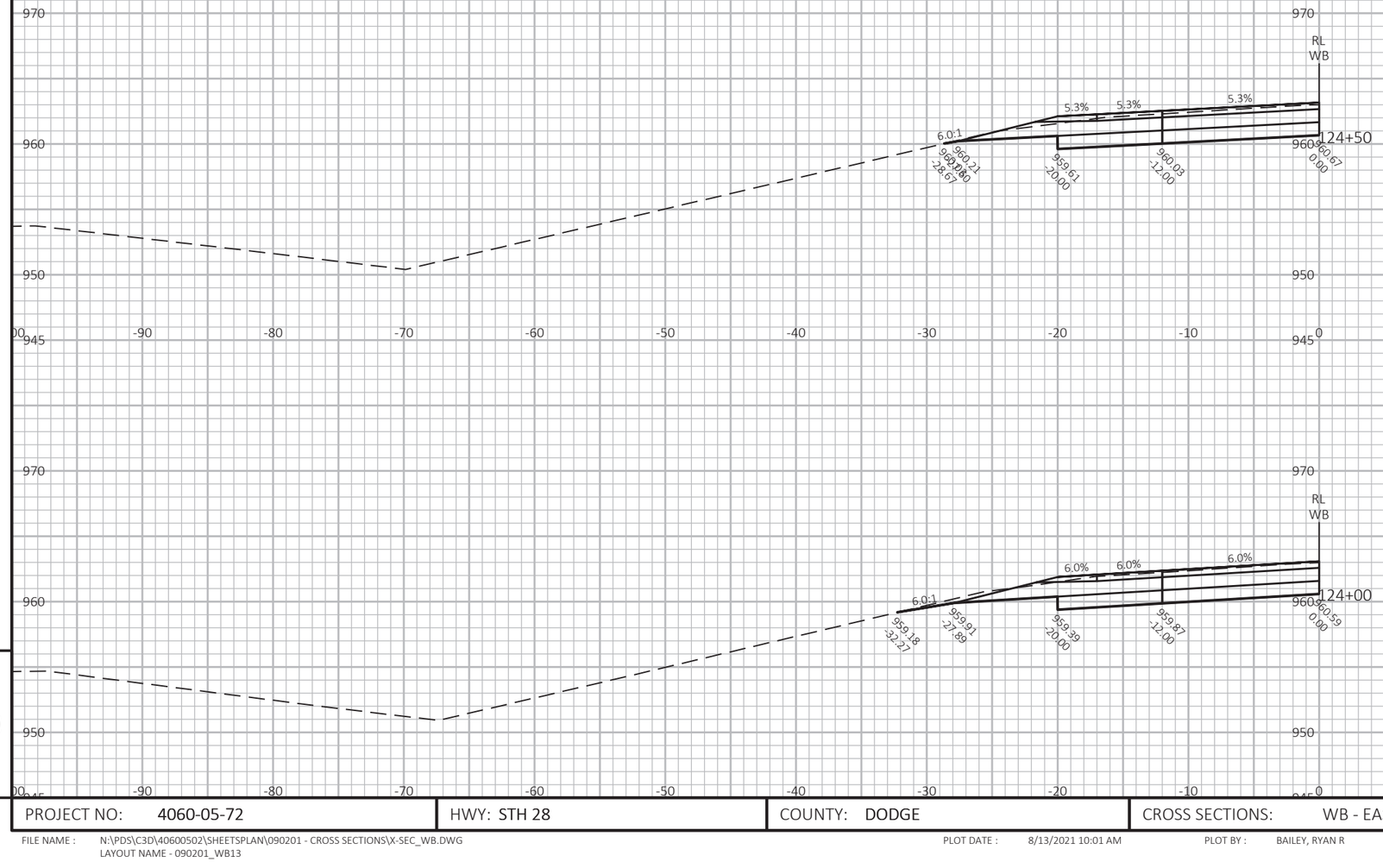
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: WB - EAST LEG	SHEET 253	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_WB.DWG
LAYOUT NAME - 090201_WB12

PLOT DATE : 8/13/2021 10:01 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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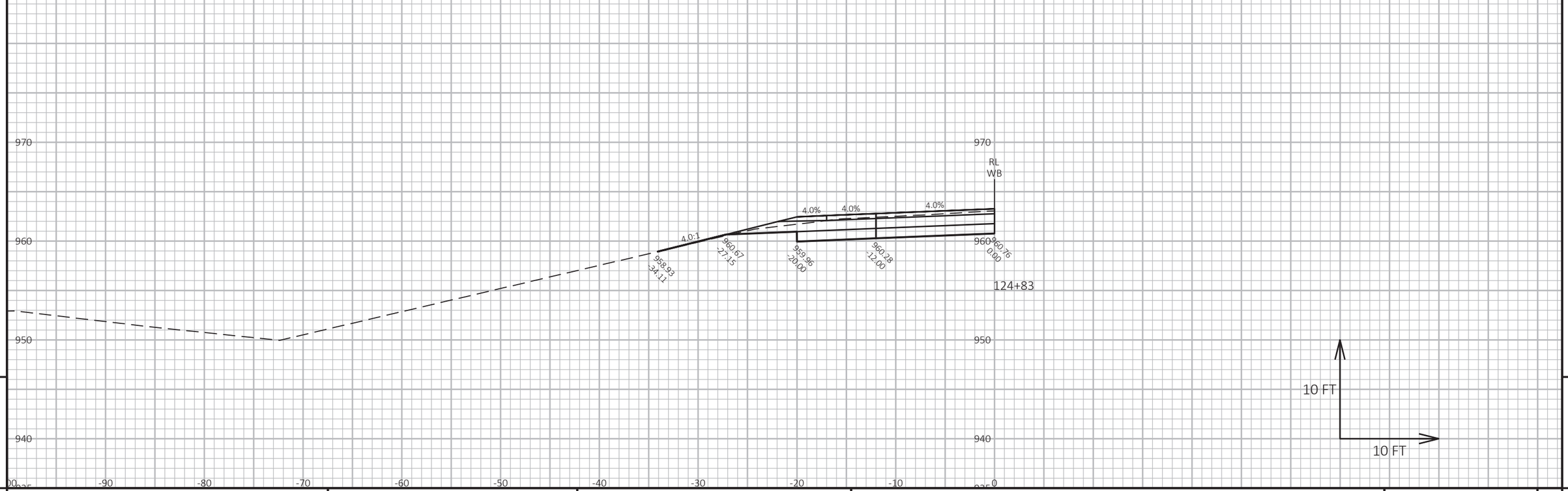
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: WB - EAST LEG	SHEET 254	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_WB.DWG
LAYOUT NAME - 090201_WB13

PLOT DATE : 8/13/2021 10:01 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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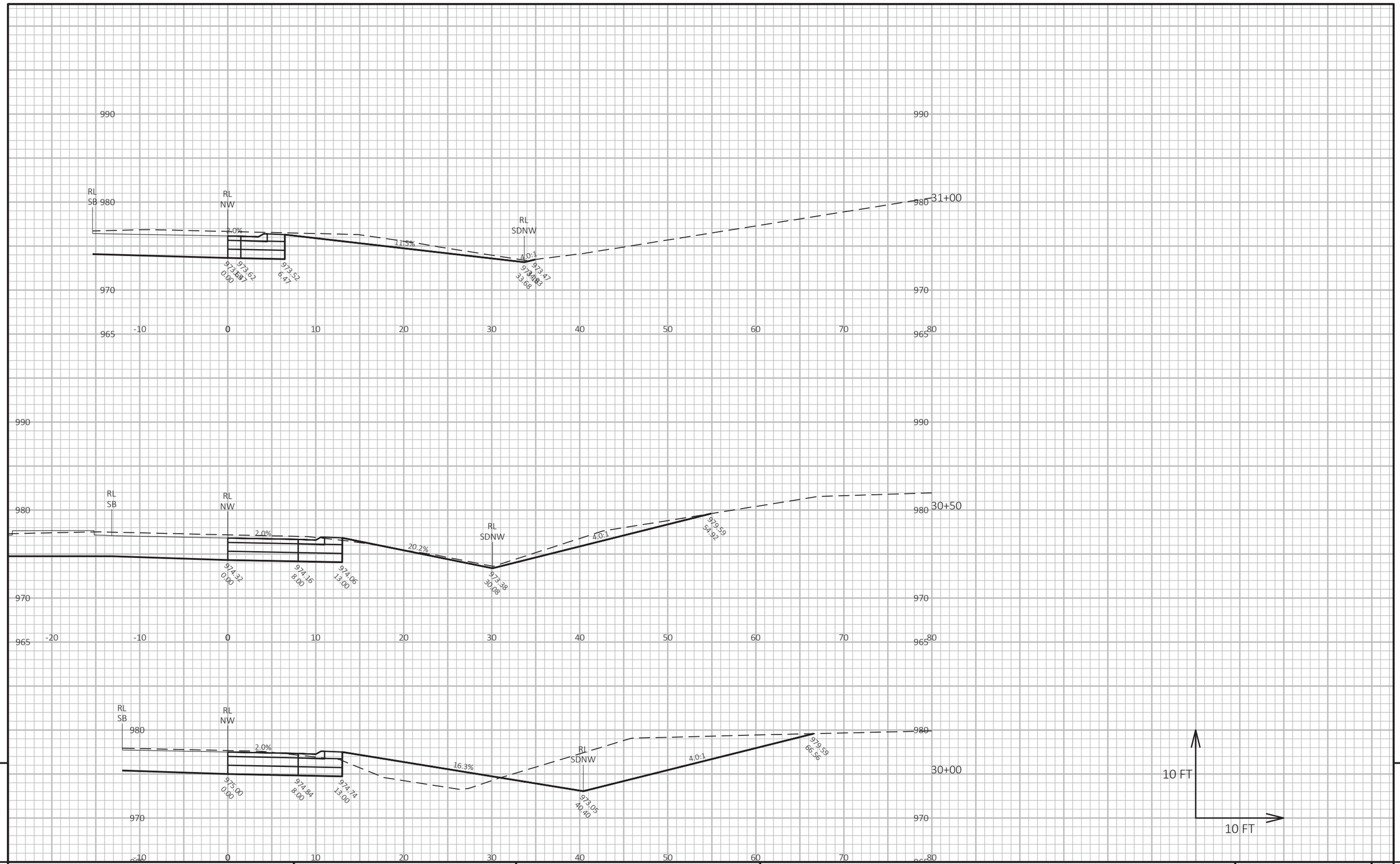
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: WB - EAST LEG	SHEET 255	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_WB.DWG
LAYOUT NAME - 090201_WB14

PLOT DATE : 8/13/2021 10:01 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



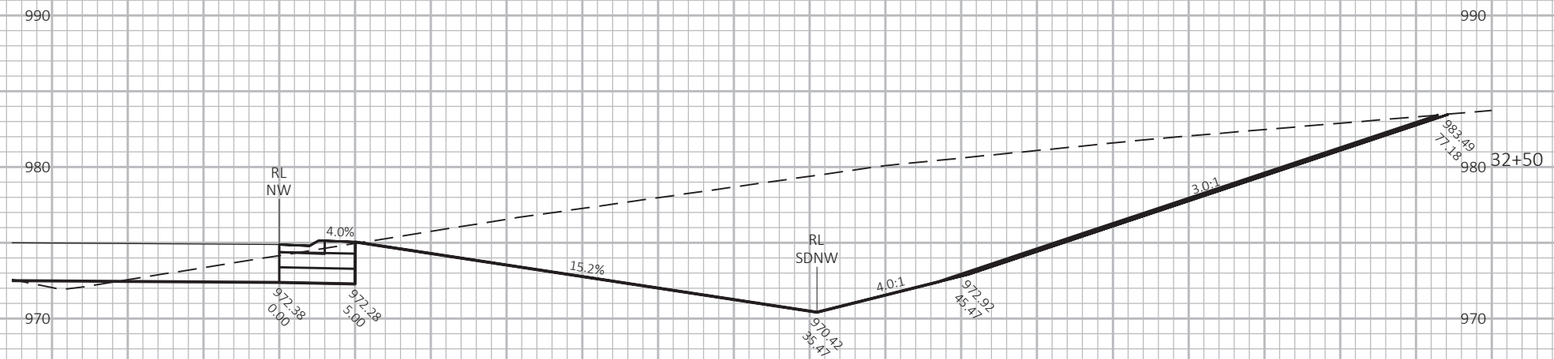
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NW	SHEET 256 E

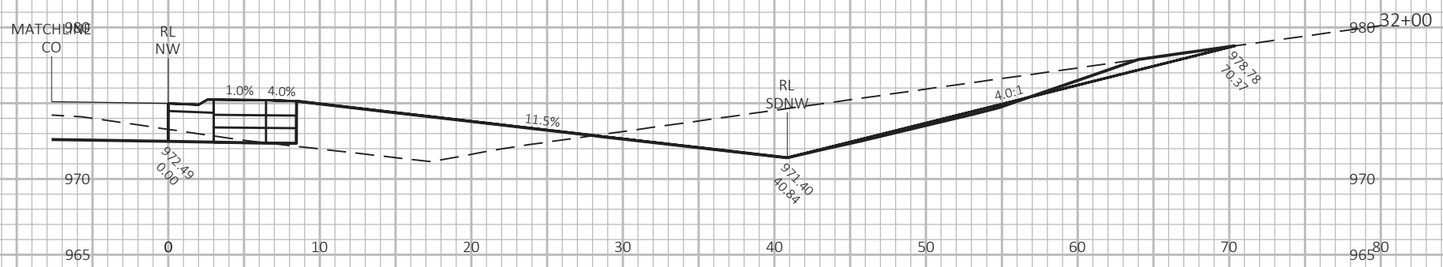
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_NW1

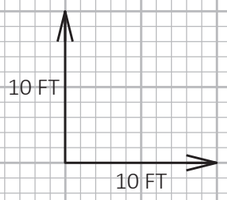
PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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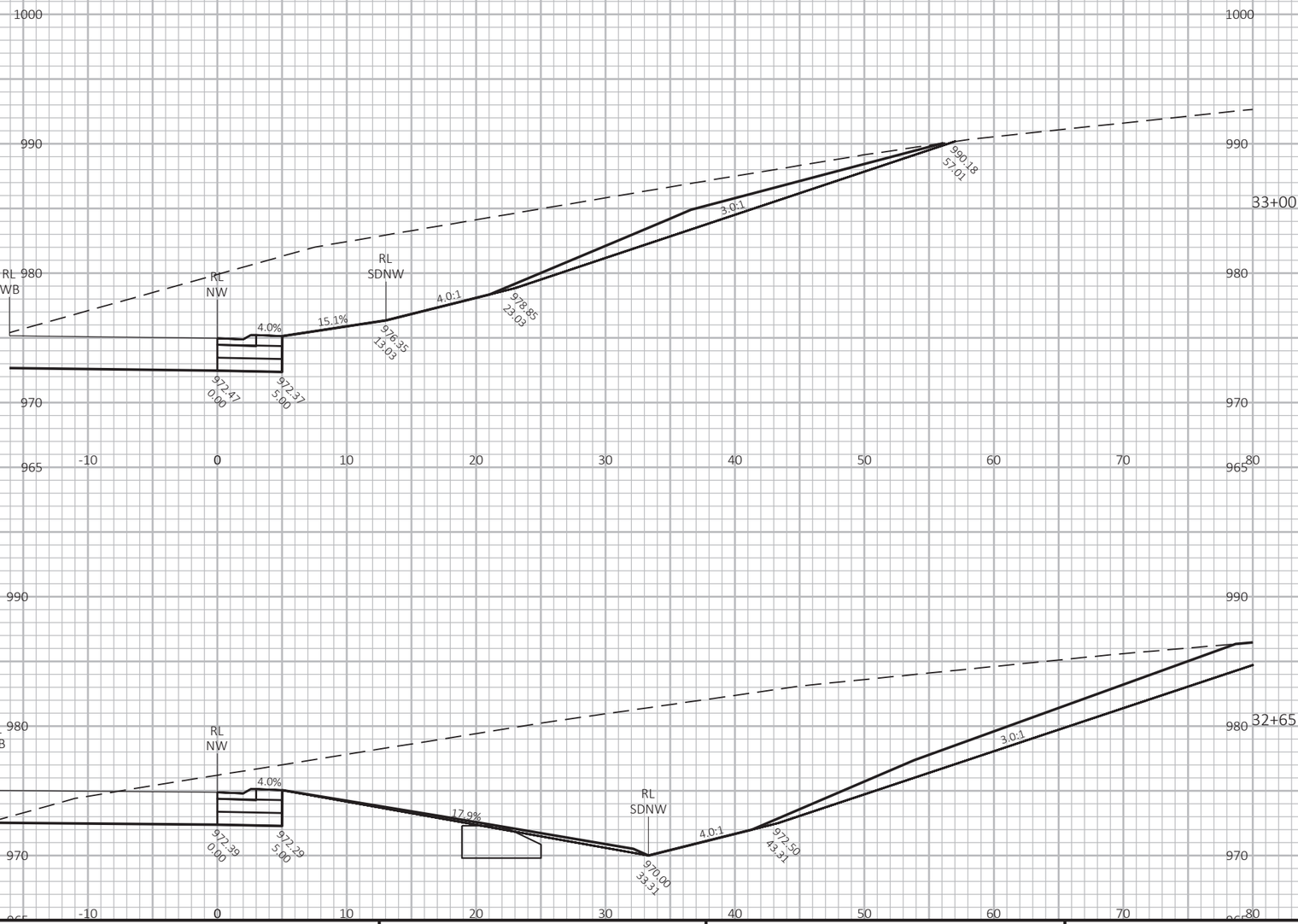
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NW	SHEET 257	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_NW2

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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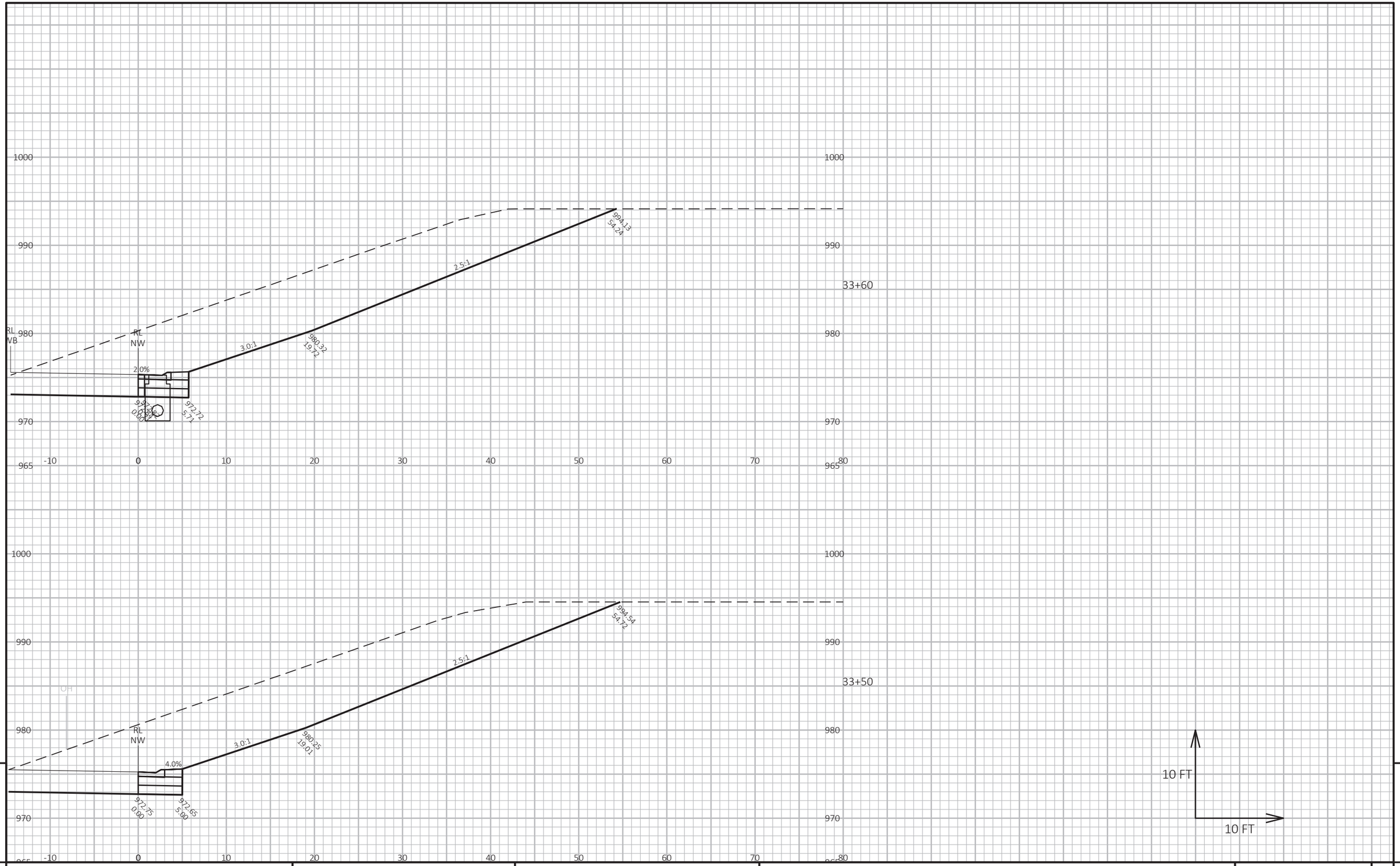
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NW	SHEET 258	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_NW3

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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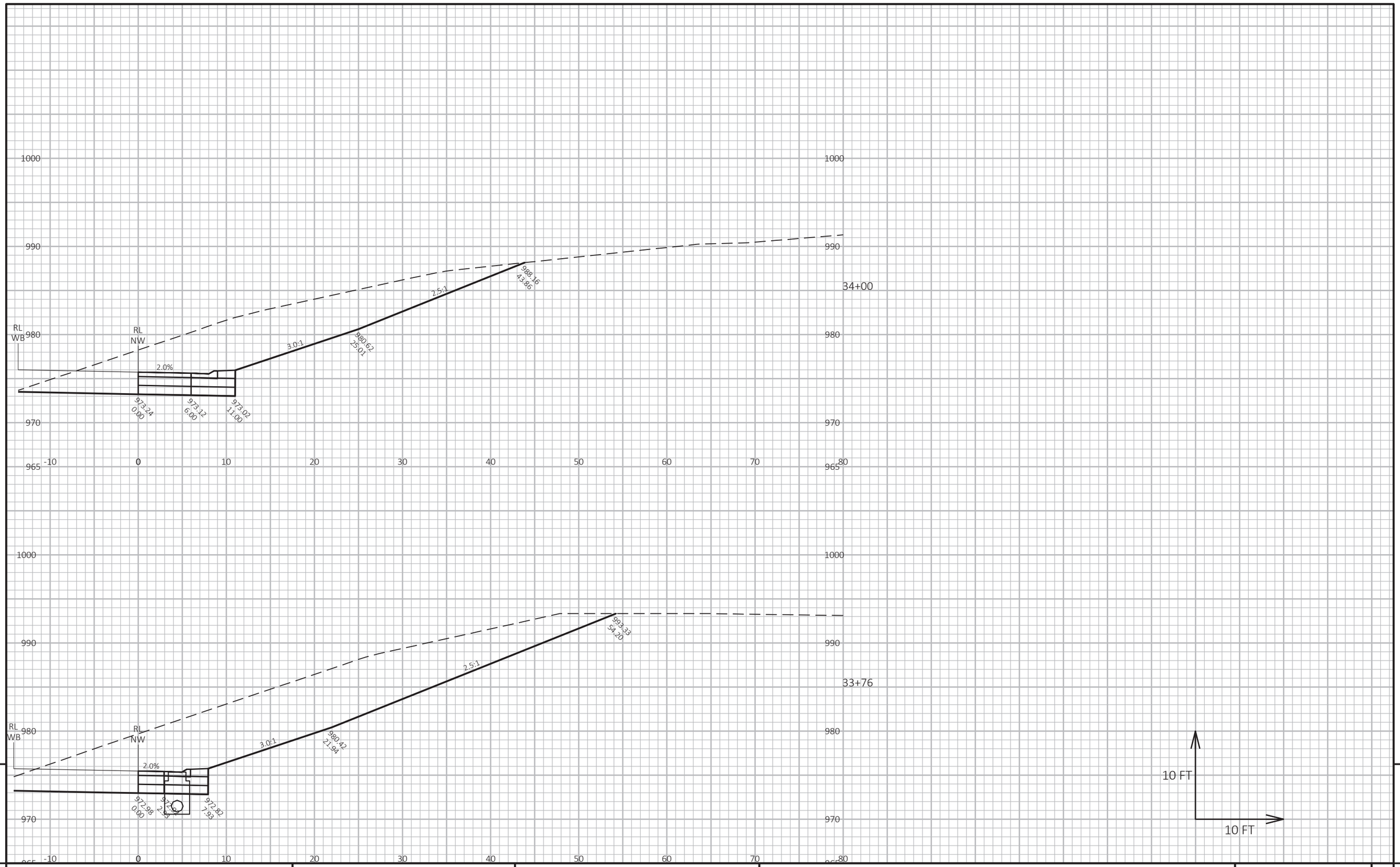
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NW	SHEET 259	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_NW4

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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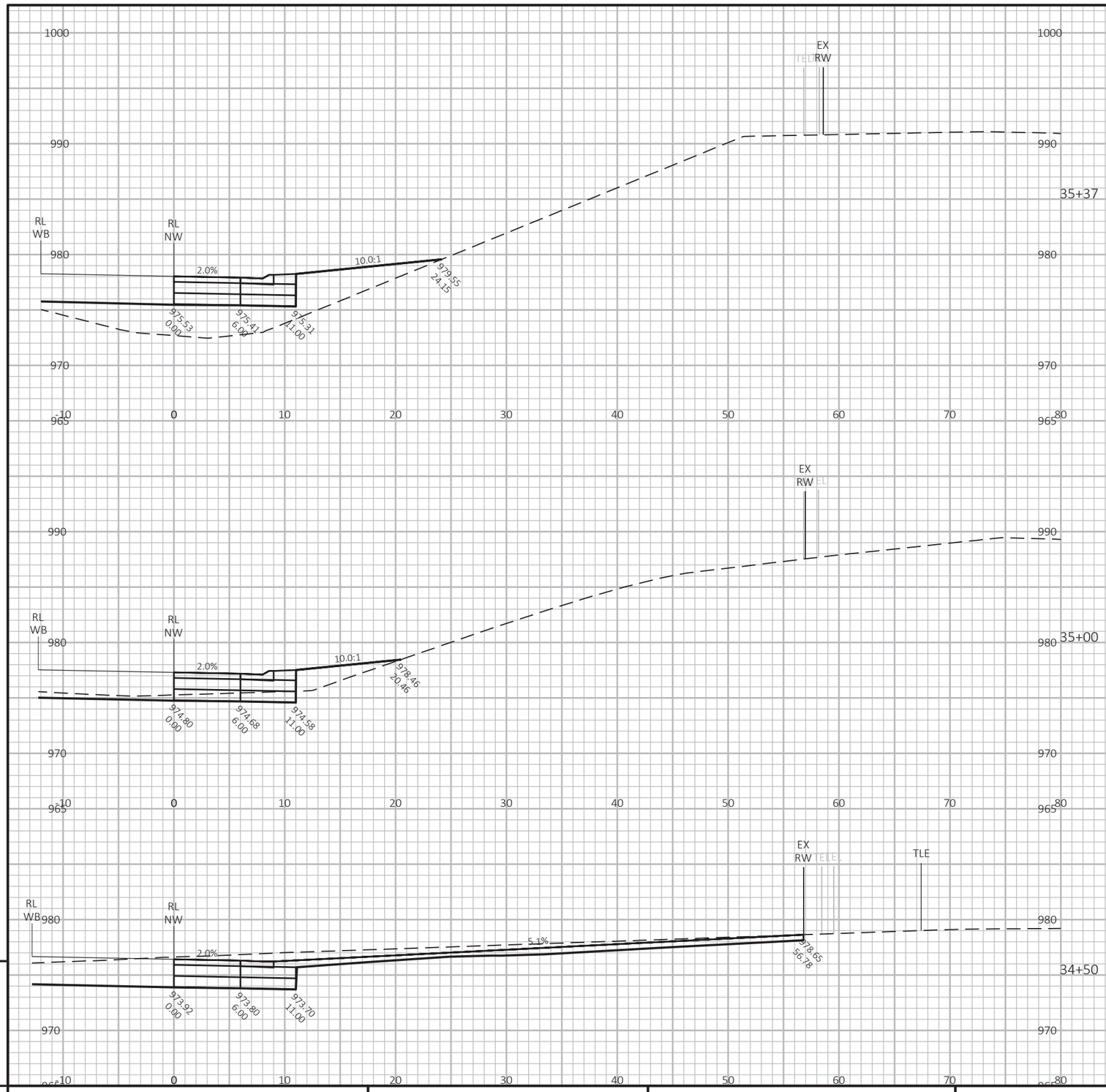
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NW	SHEET 260	E

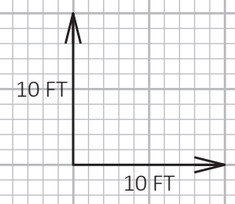
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_NW5

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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9

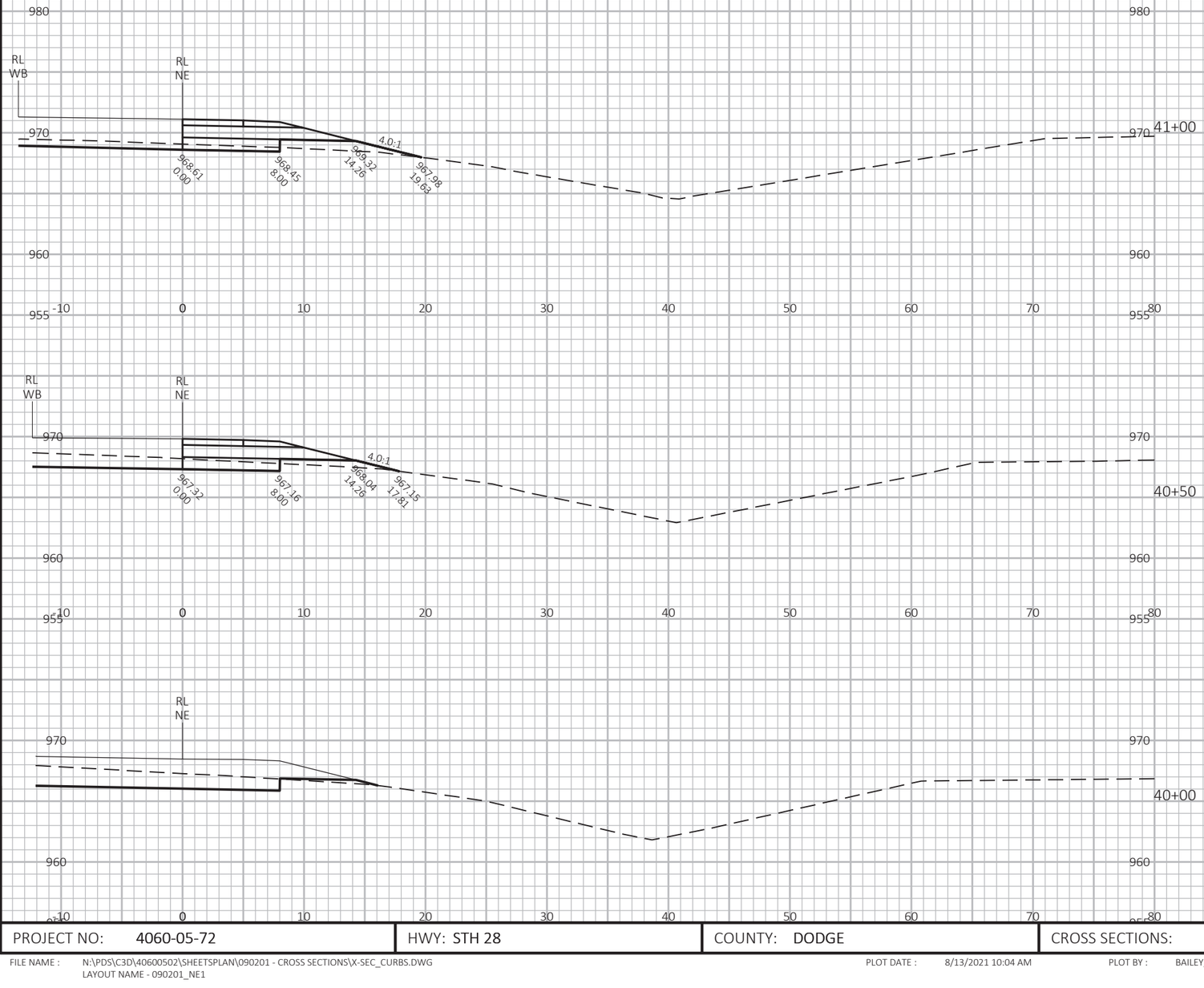
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NW	SHEET 261	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_NW6

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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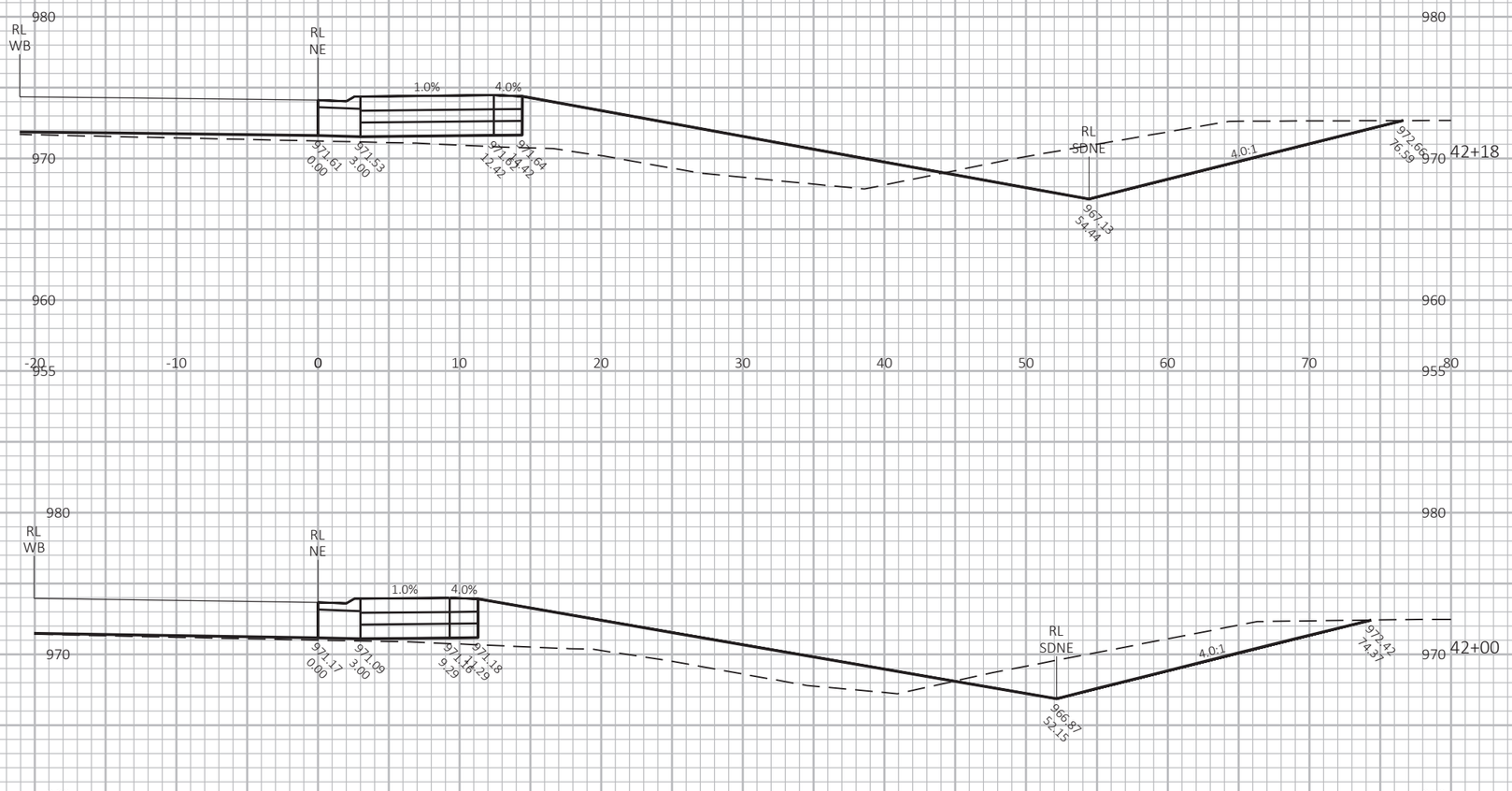
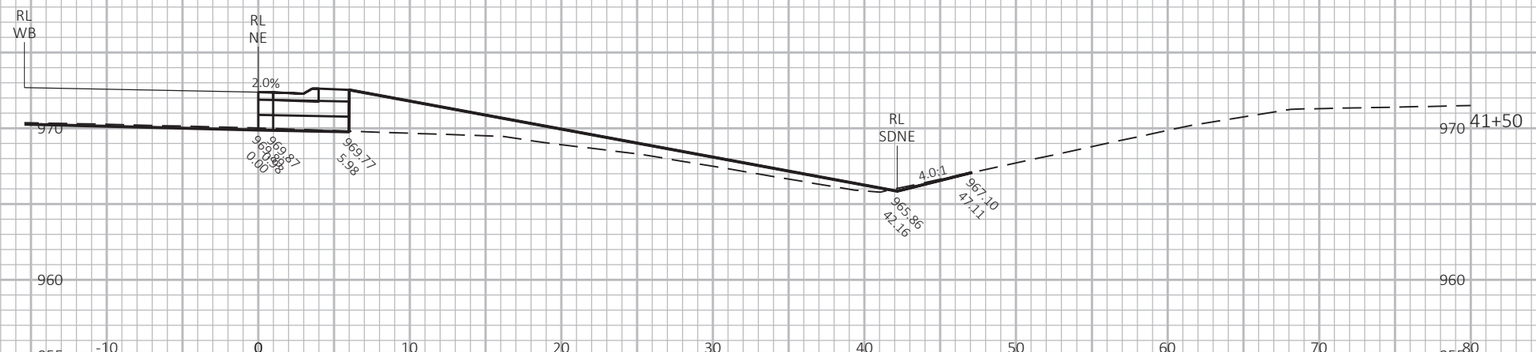
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NE	SHEET 262	E

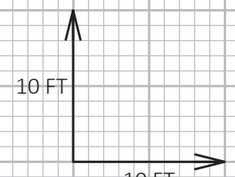
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_NE1

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.







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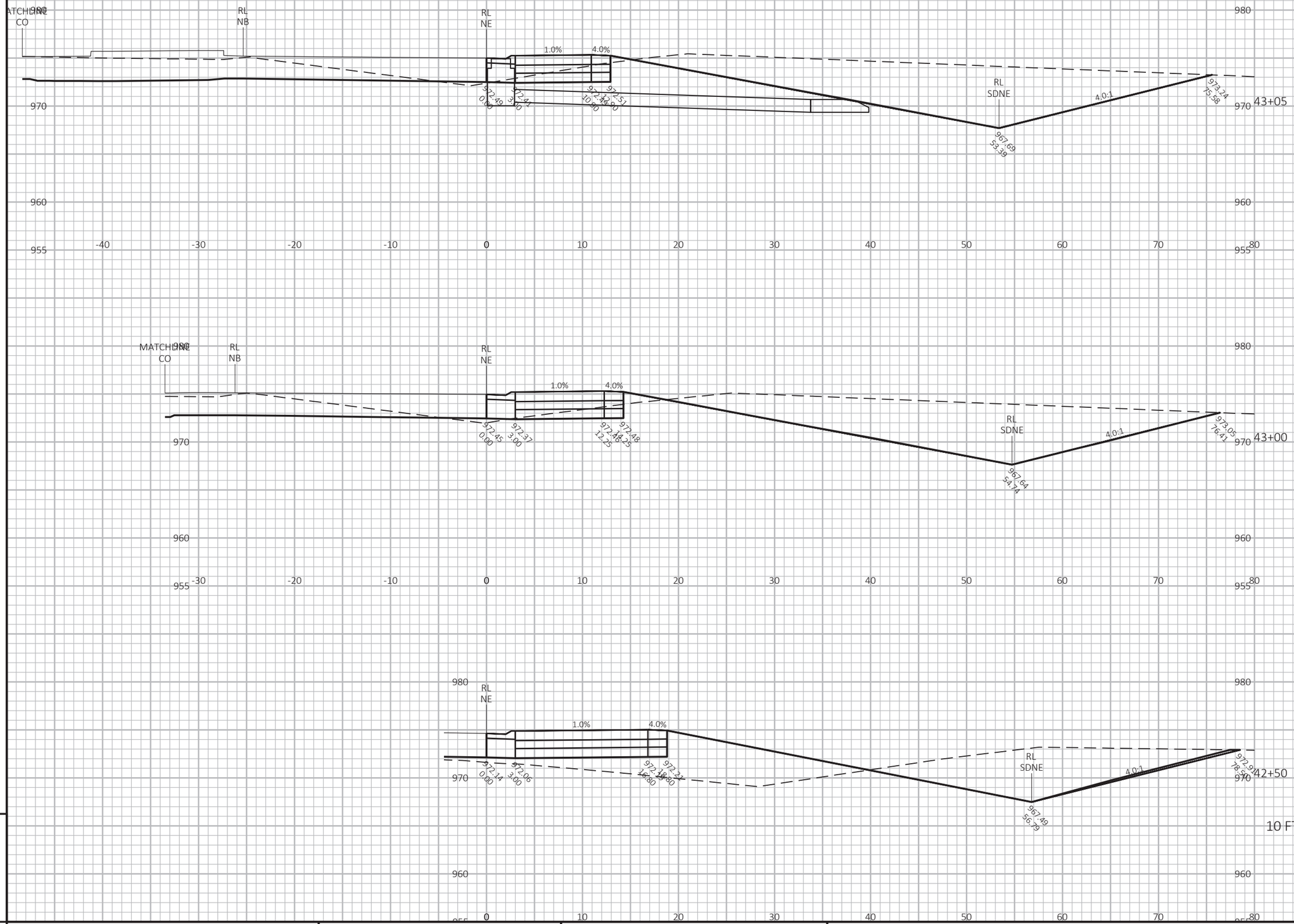
9

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NE	SHEET 263	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_NE2

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

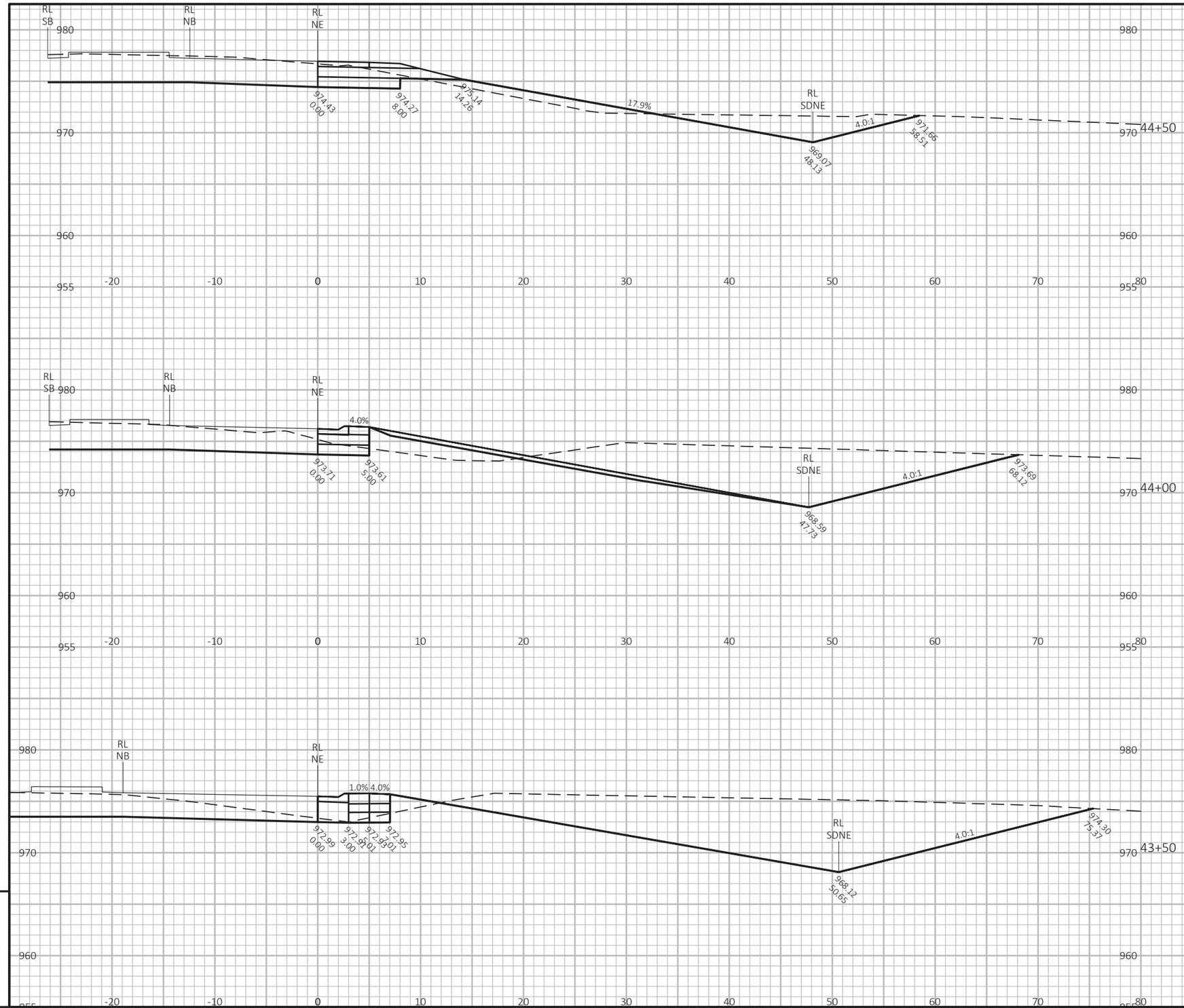


PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NE	SHEET 264 E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_NE3

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



10 FT

10 FT

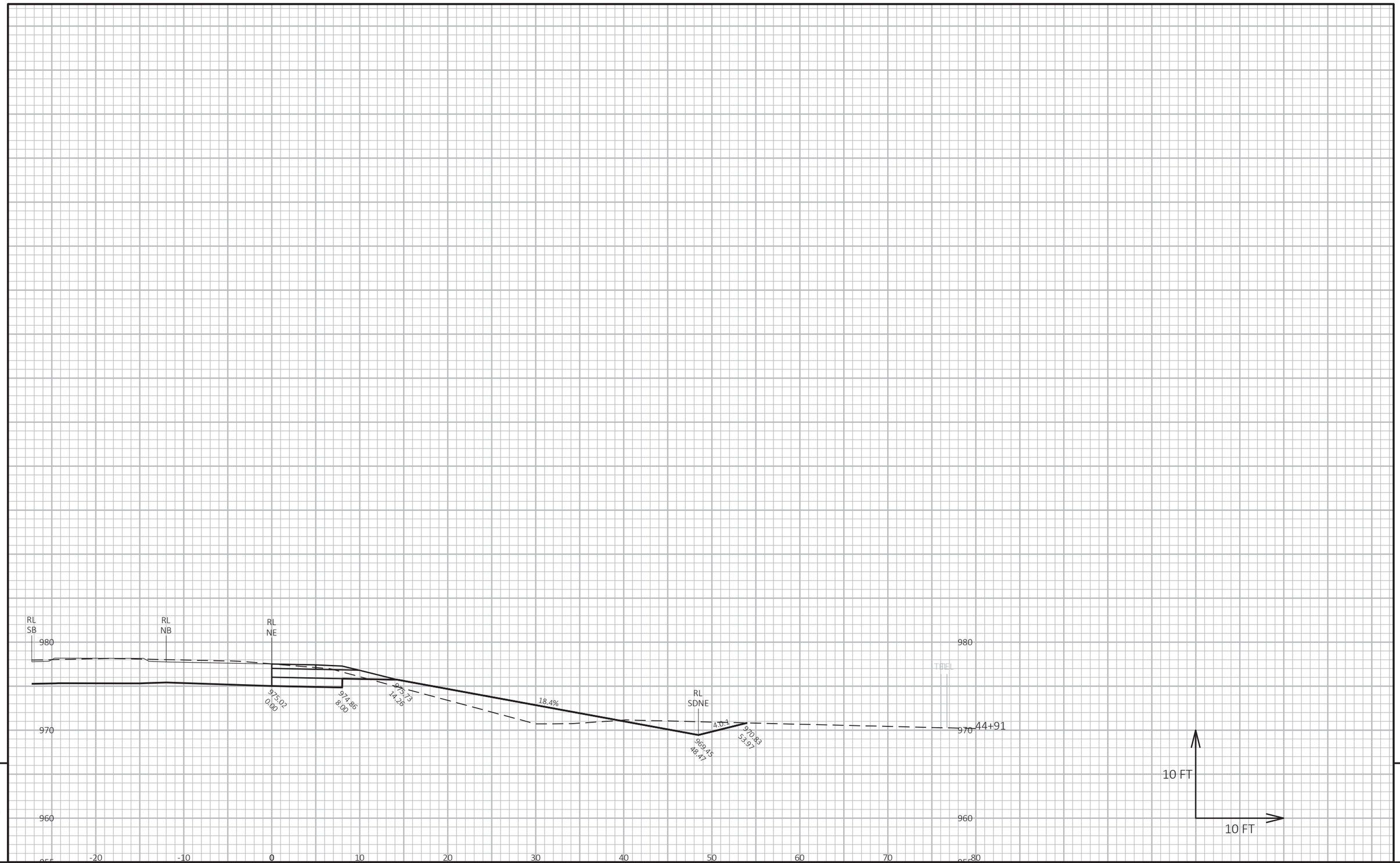
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NE	SHEET 265	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_NE4

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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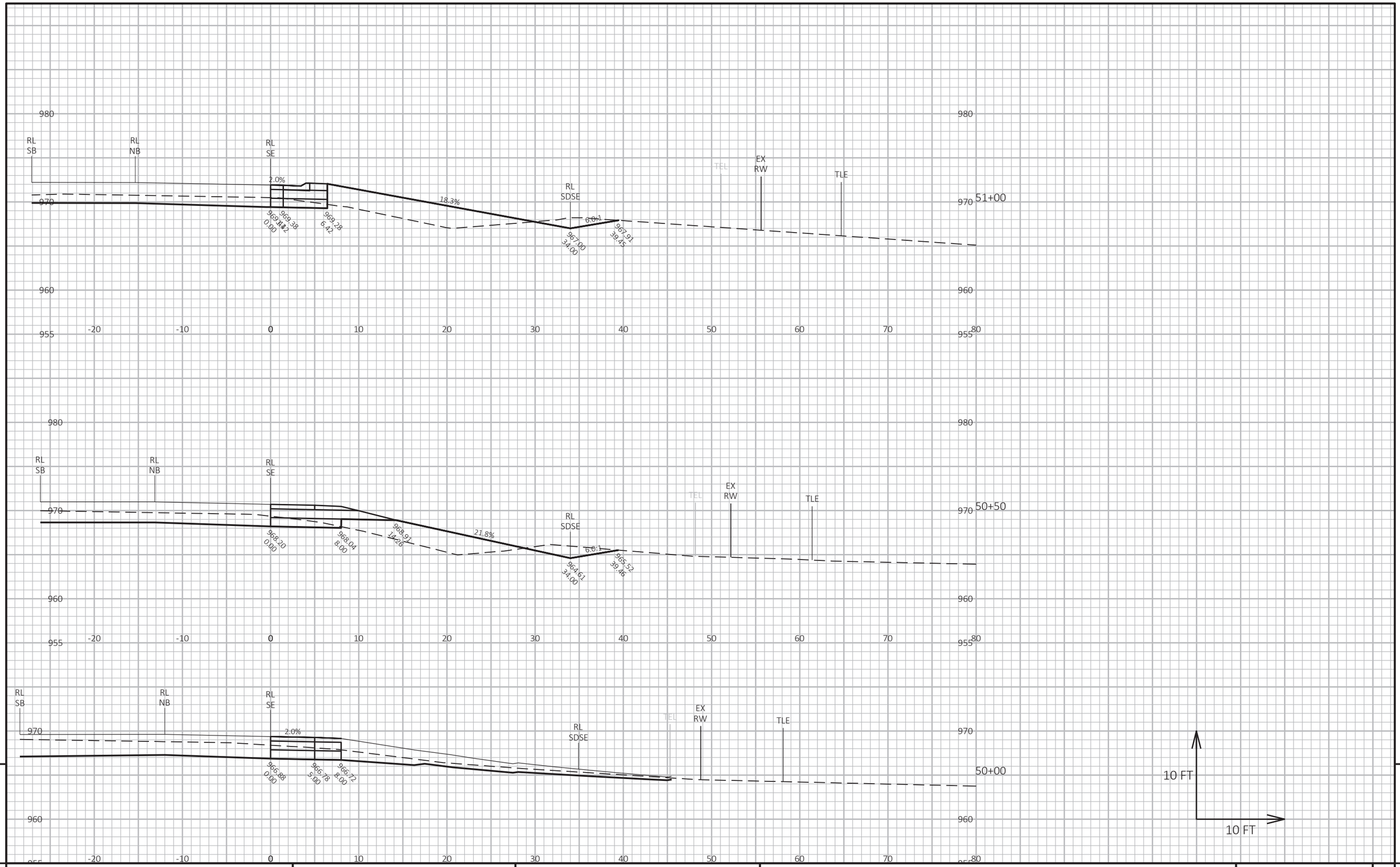
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: NE	SHEET 266	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_NE5

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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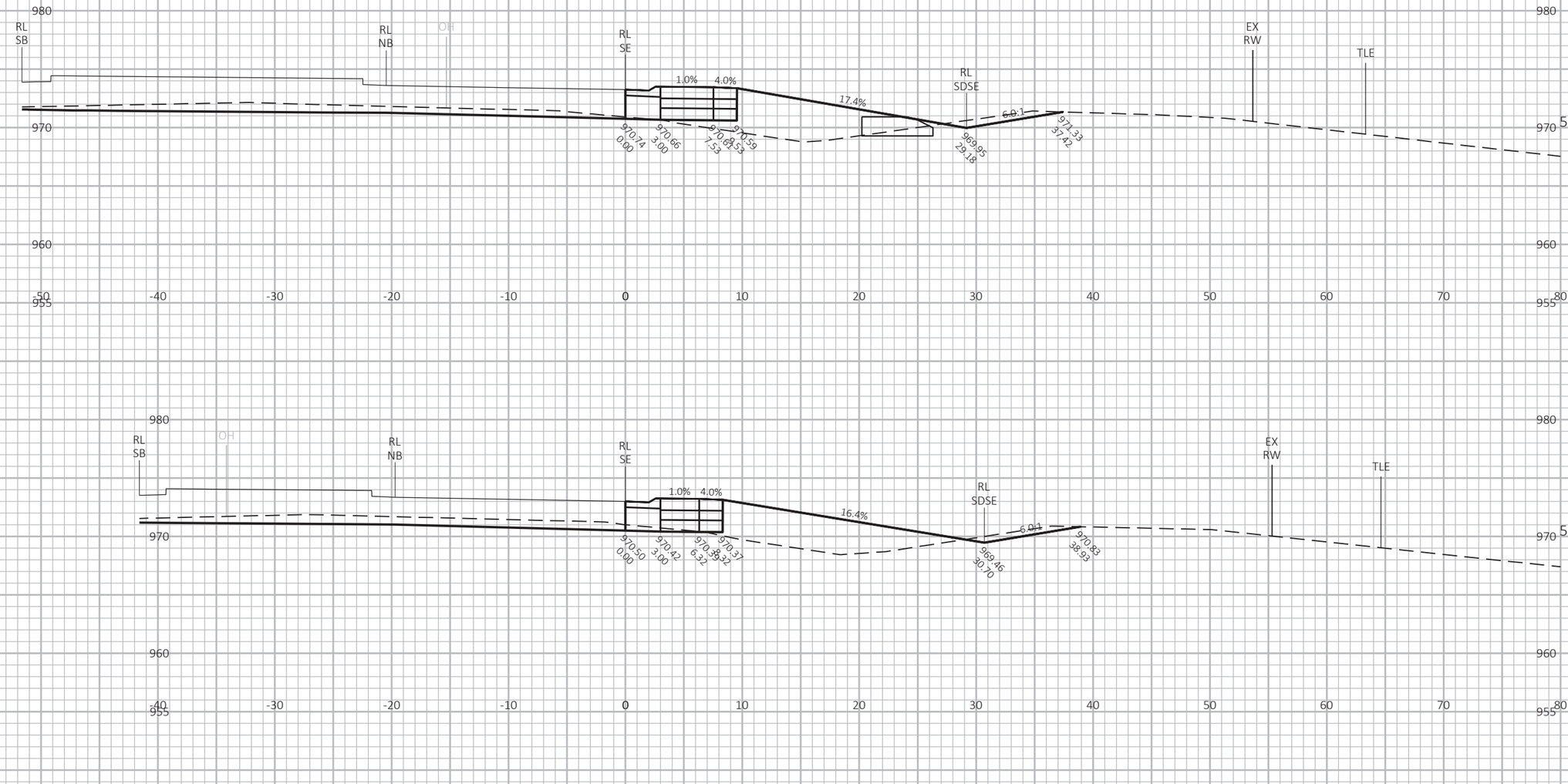
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SE	SHEET 267	E

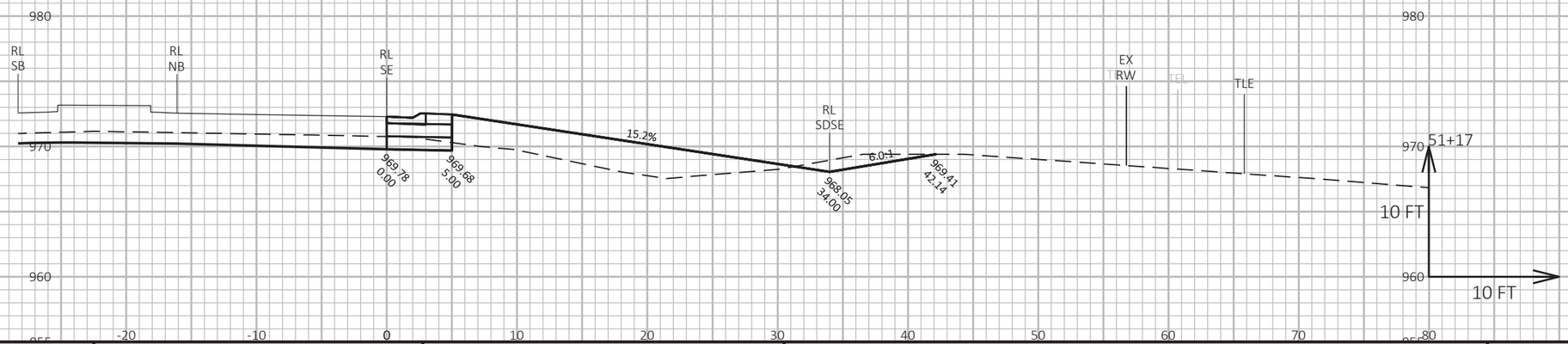
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_SE1

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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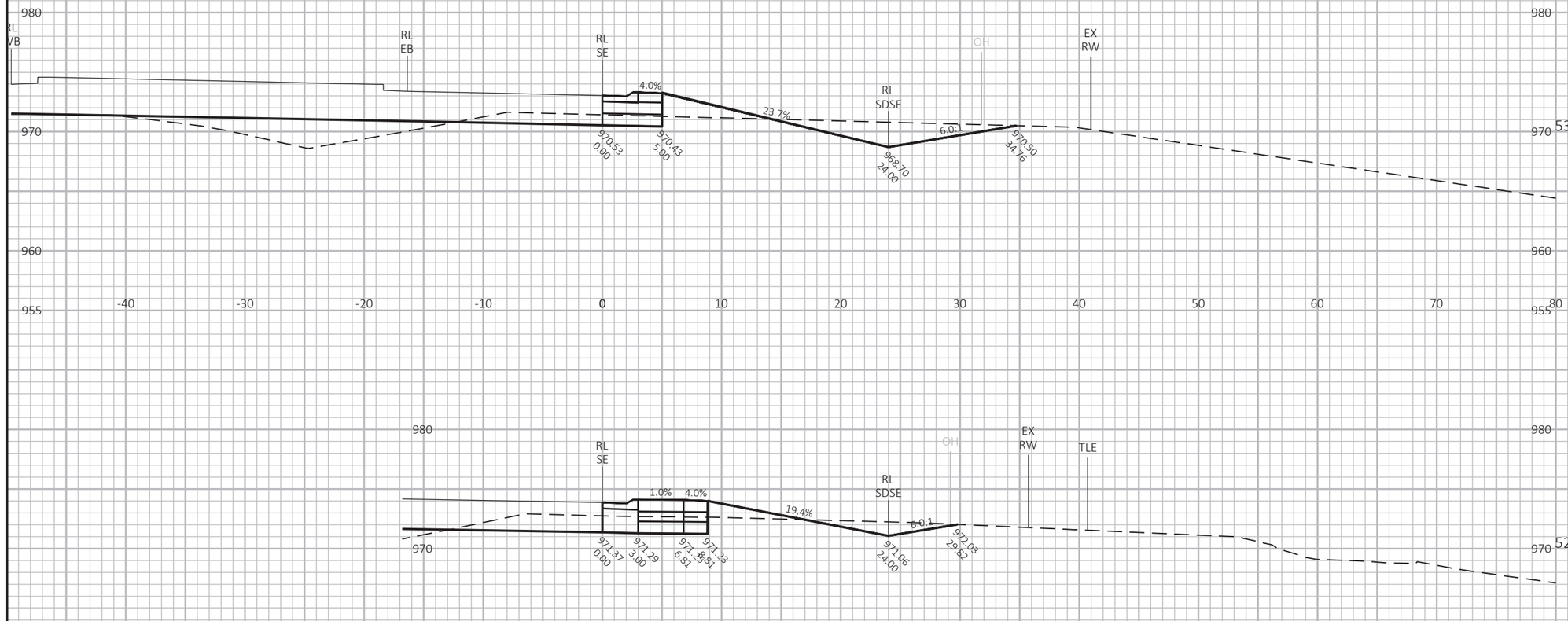
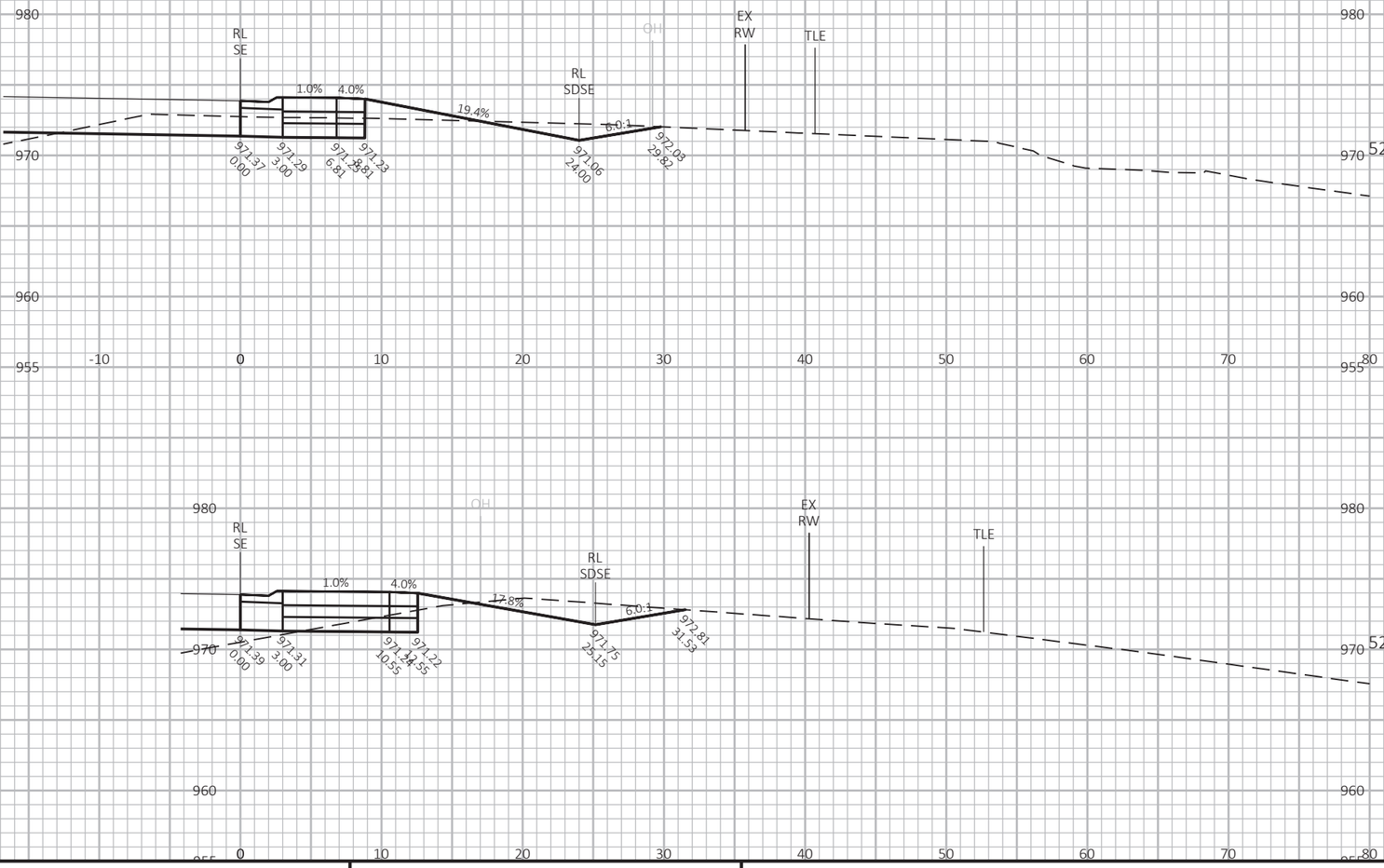
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SE	SHEET 268	E

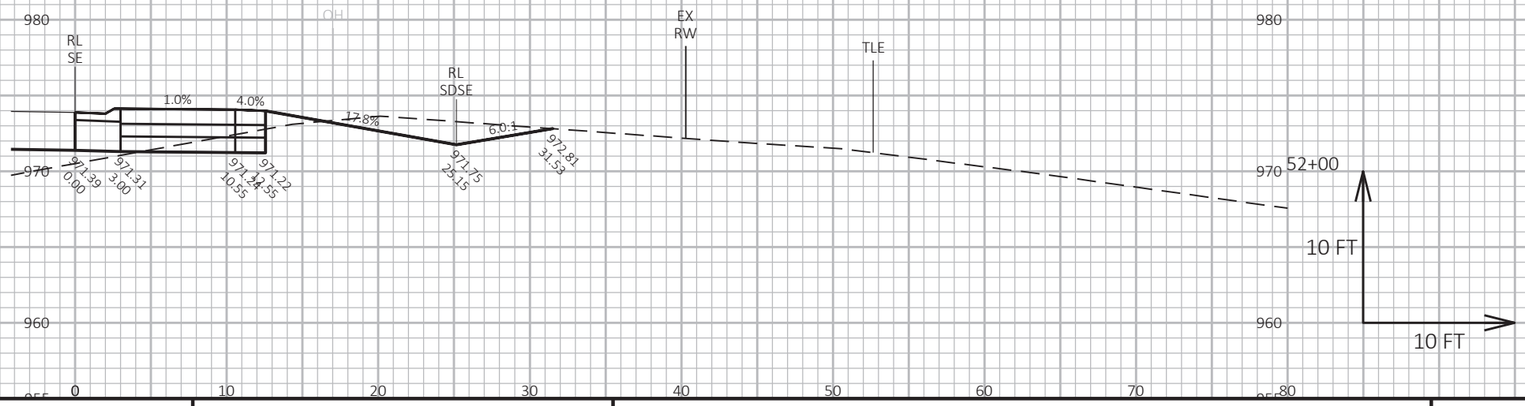
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_SE2

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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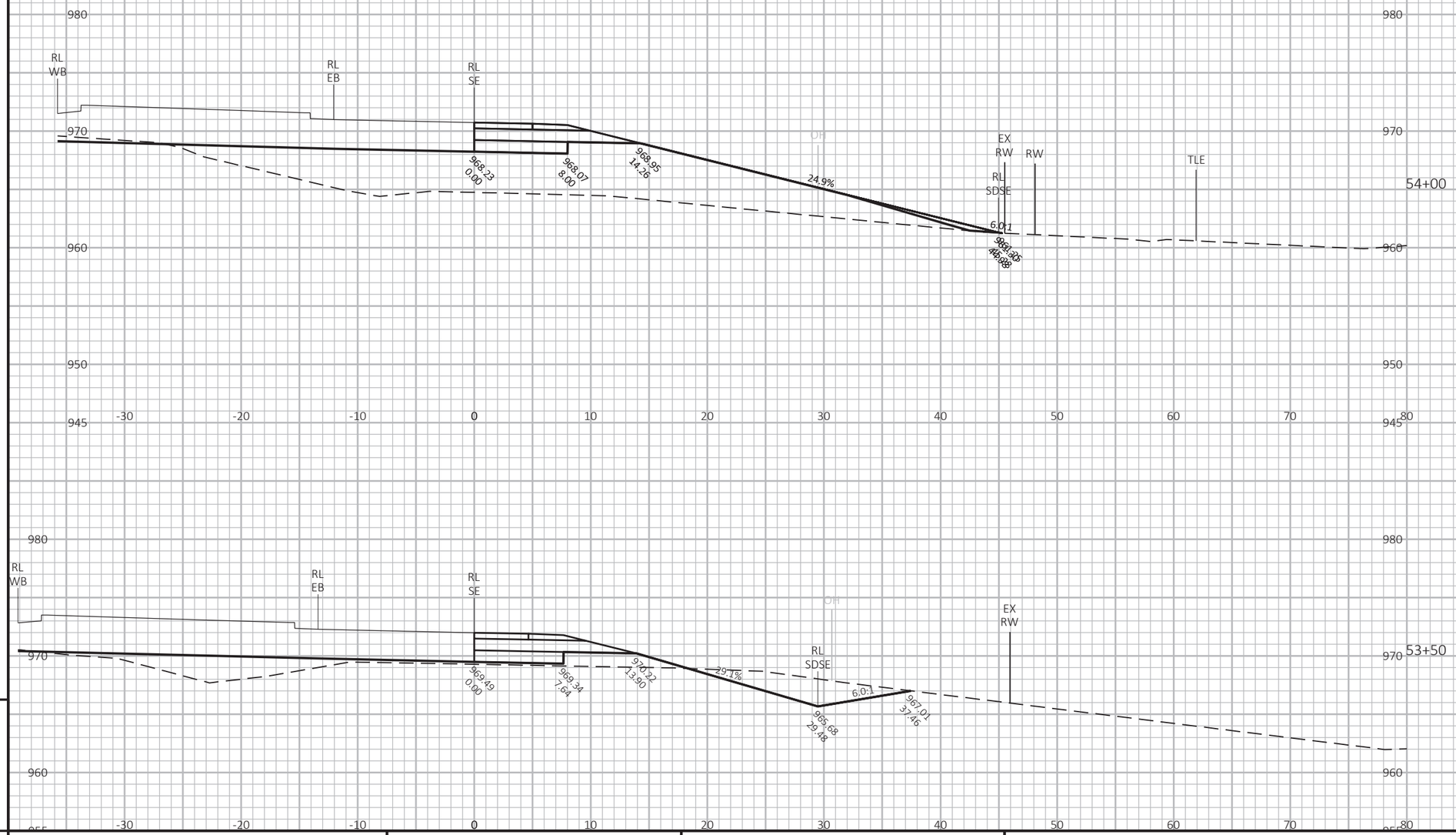
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SE	SHEET 269	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_SE3

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



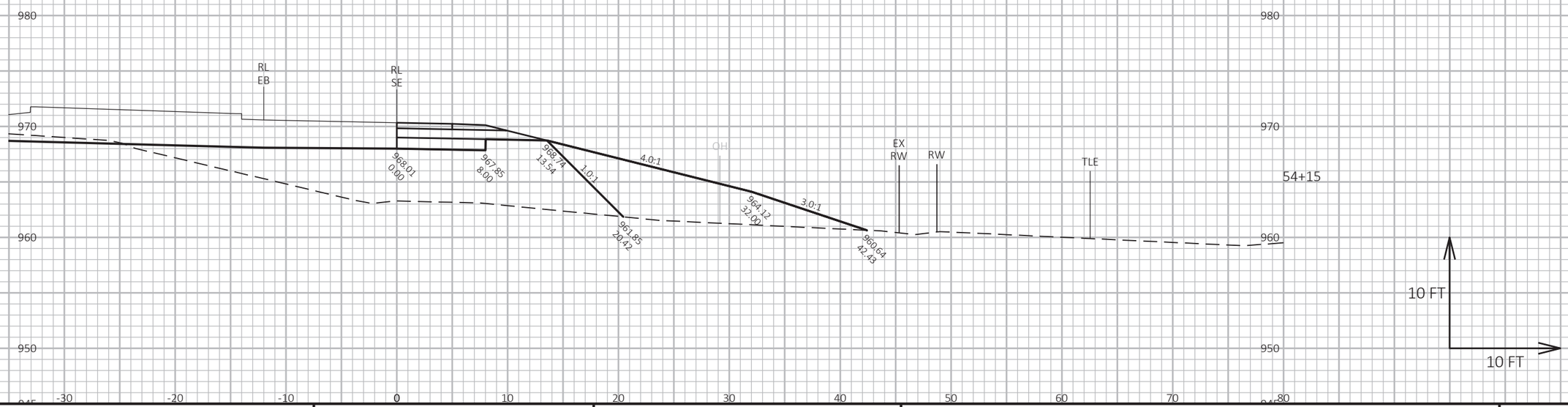
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SE	SHEET 270	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_SE4

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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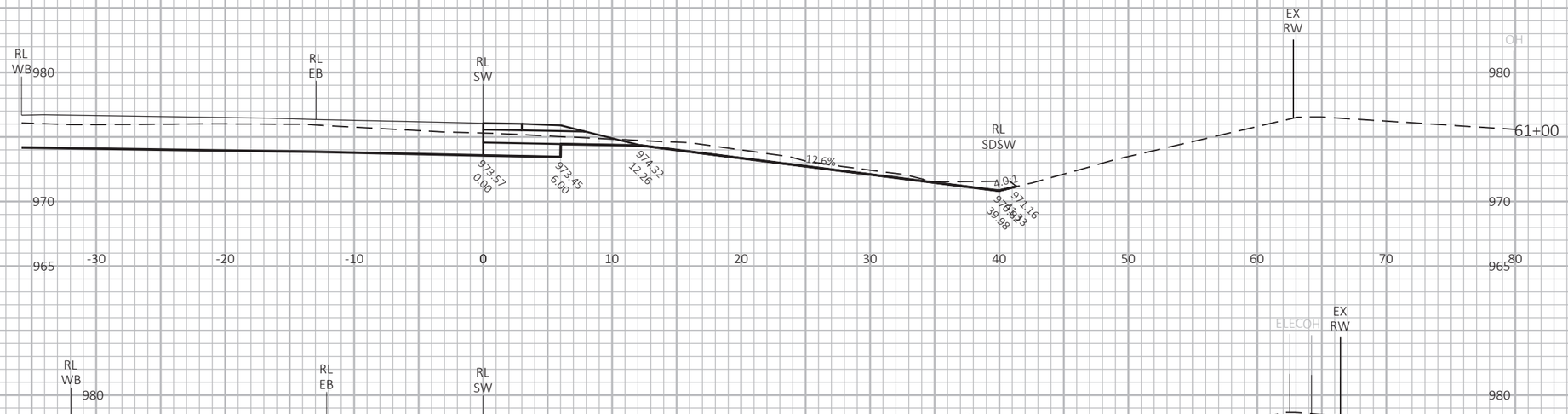
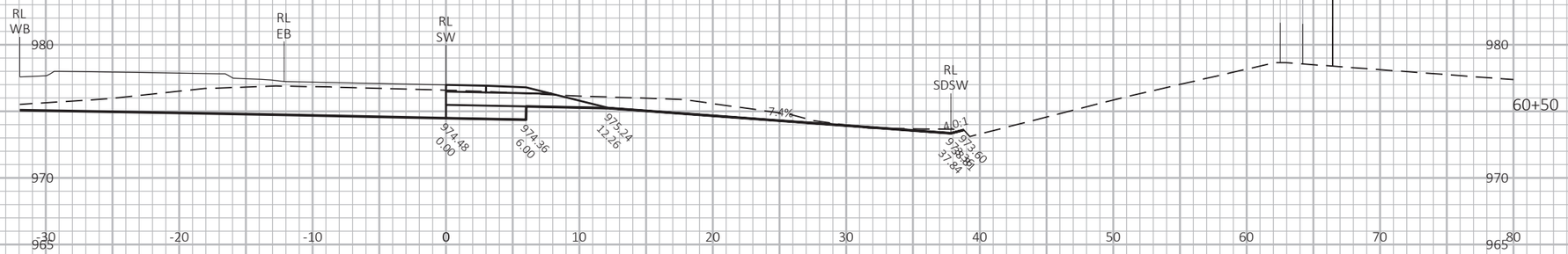
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SE	SHEET 271	E

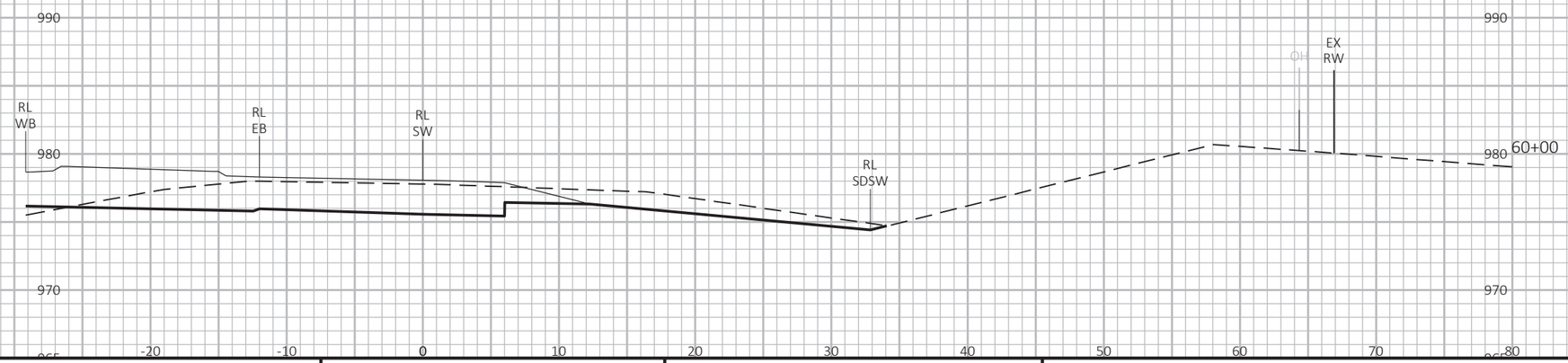
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_SE5

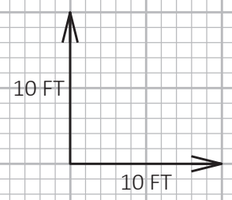
PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.









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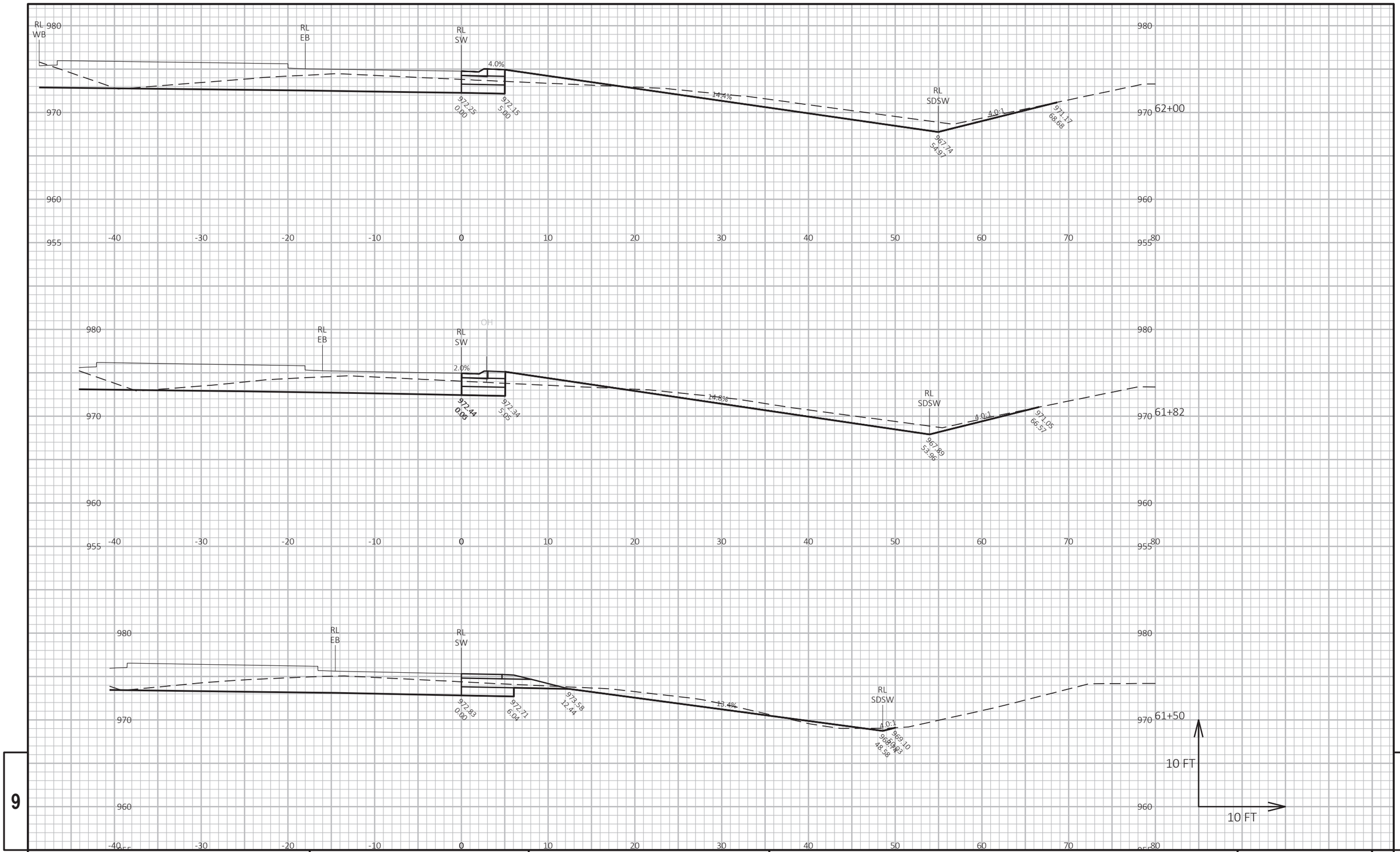
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SW	SHEET 272	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_SW1

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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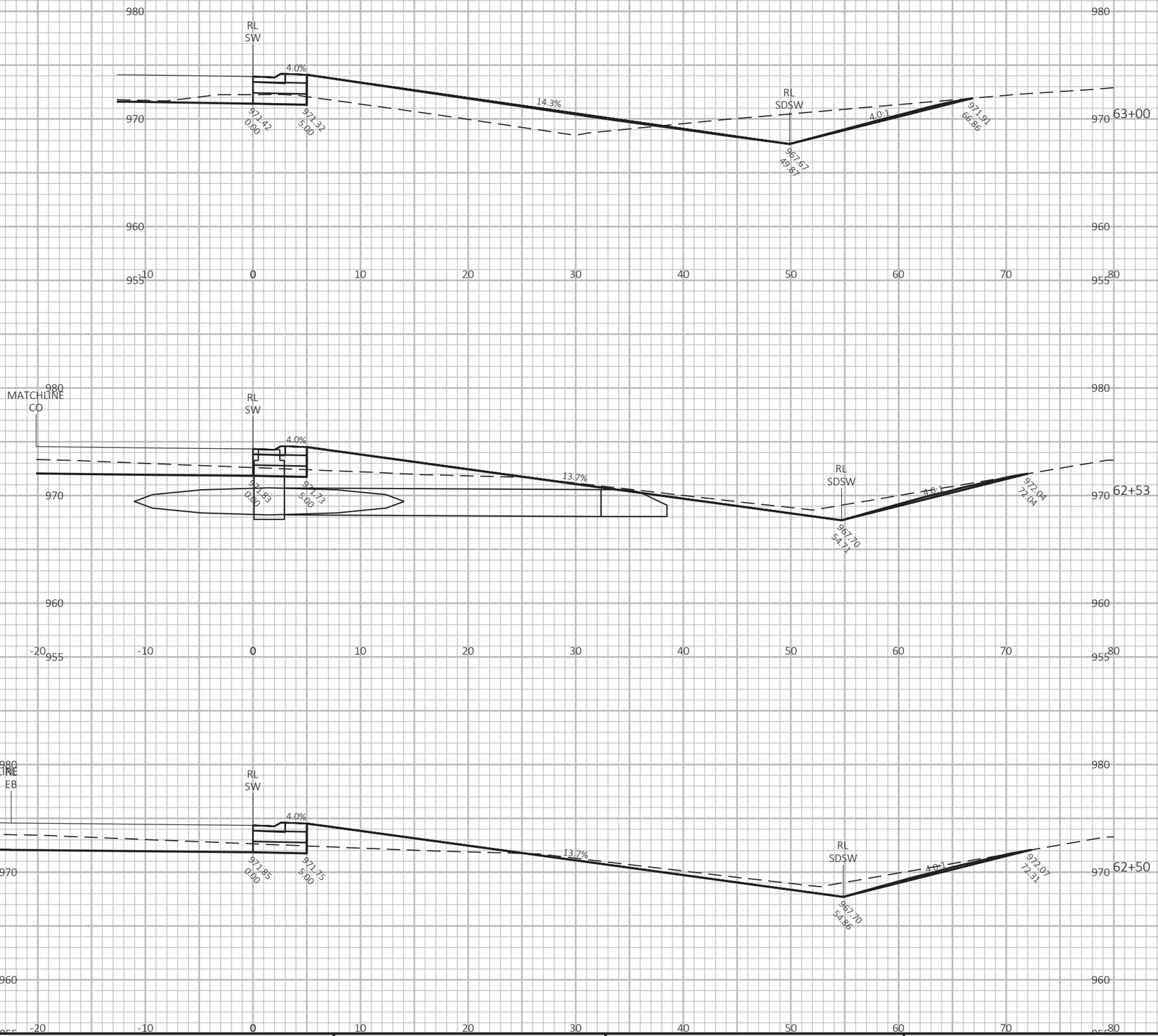
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SW	SHEET 273	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_SW2

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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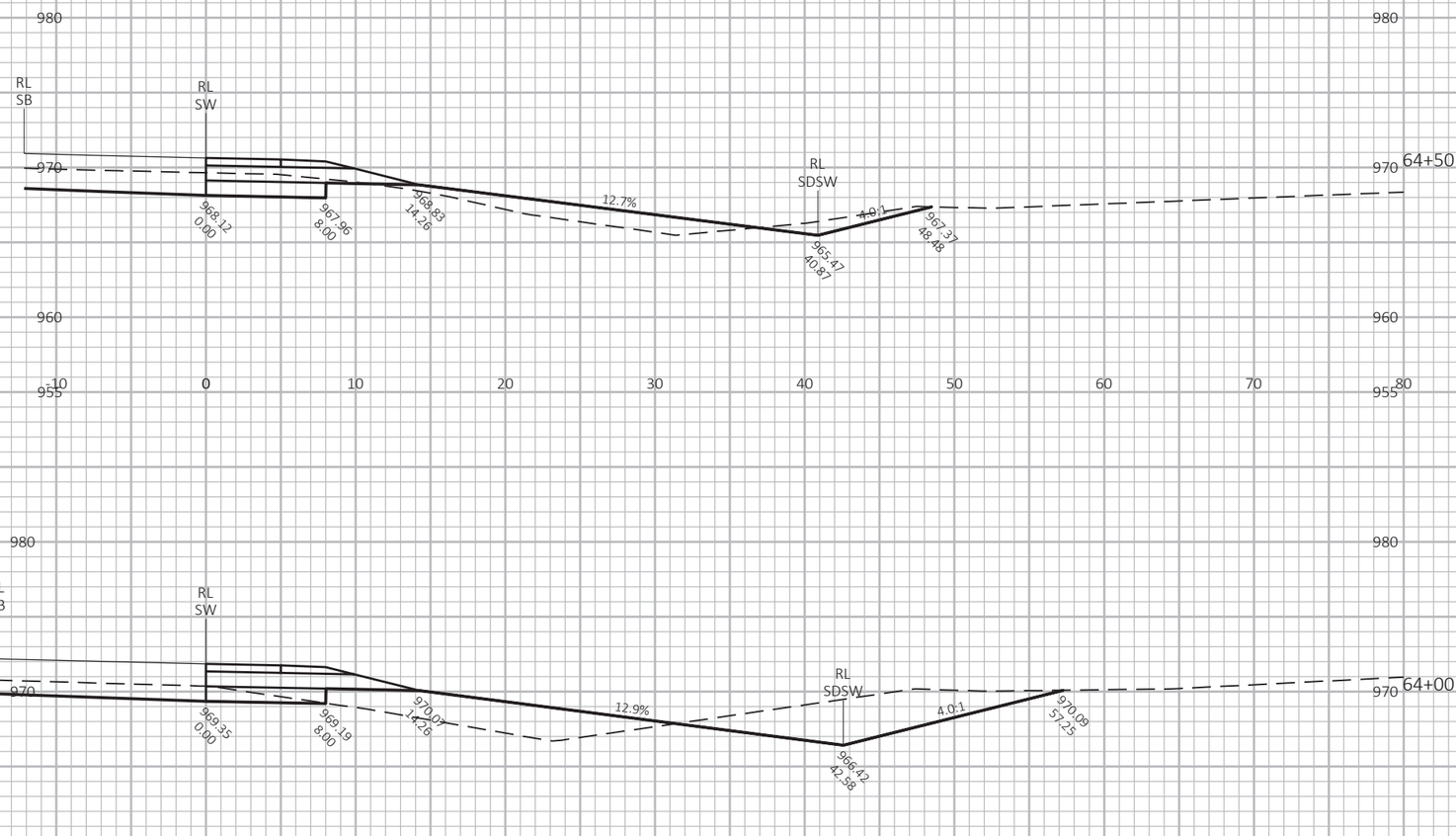
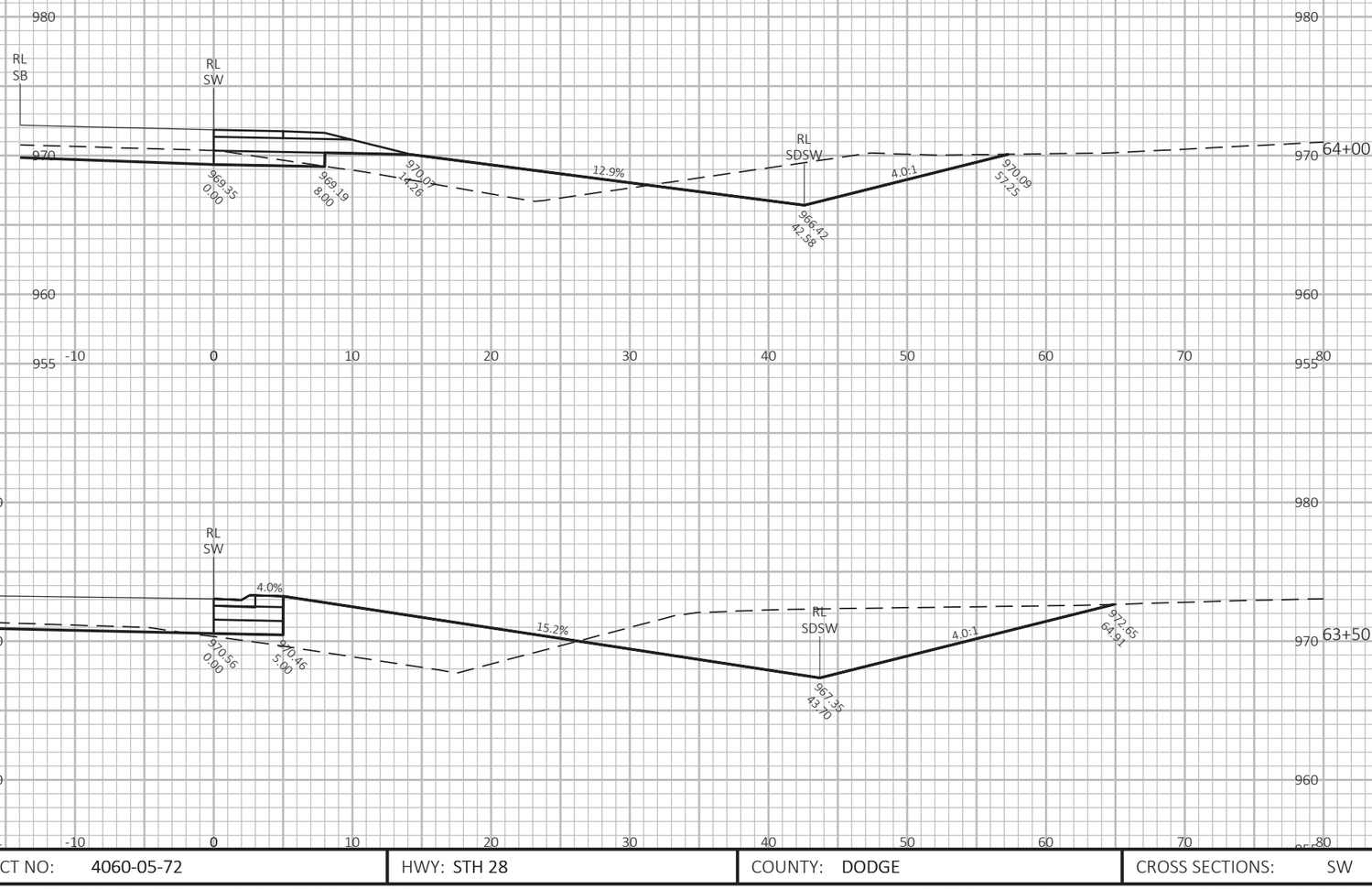
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SW	SHEET 274	E

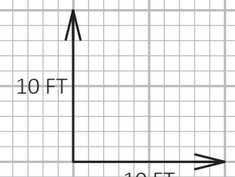
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_SW3

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







9

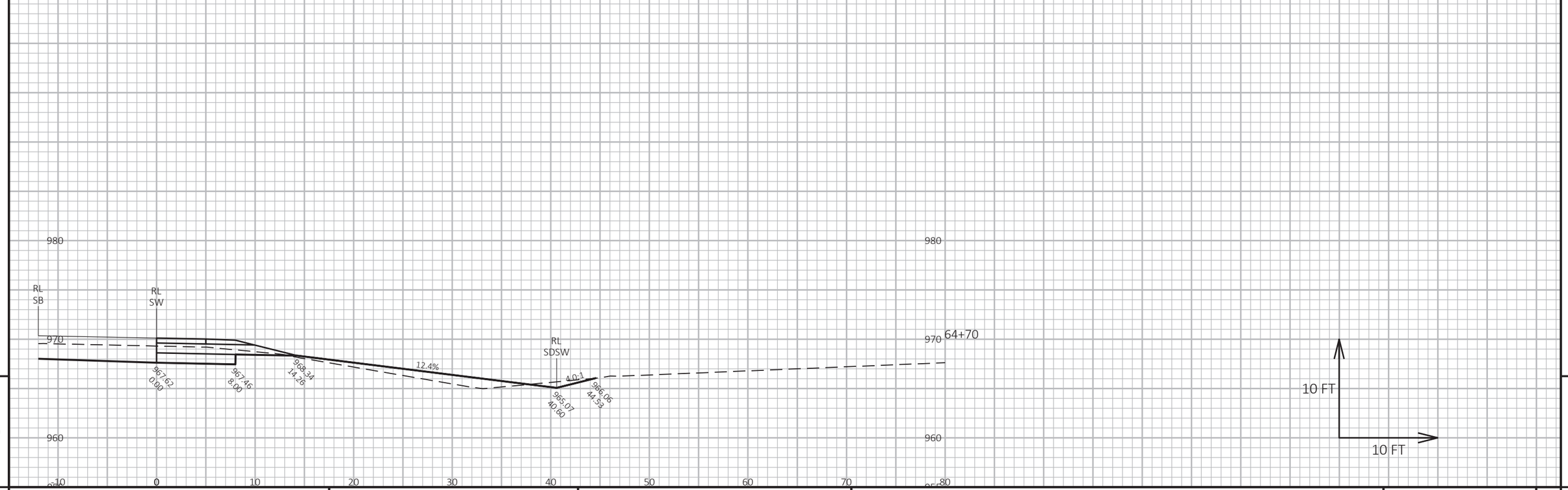
9

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SW	SHEET 275	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_SW4

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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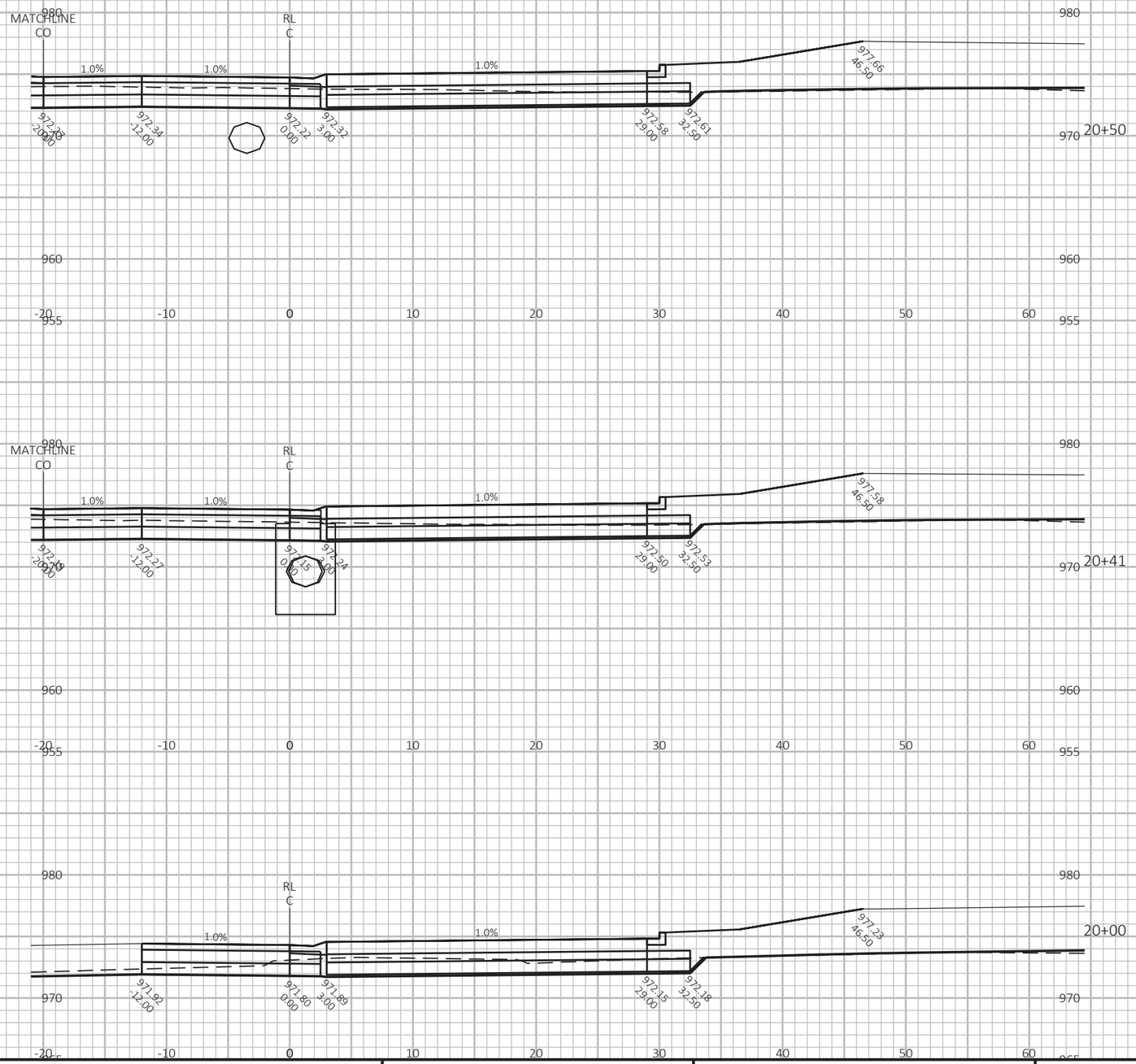
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: SW	SHEET 276	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CURBS.DWG
LAYOUT NAME - 090201_SW5

PLOT DATE : 8/13/2021 10:04 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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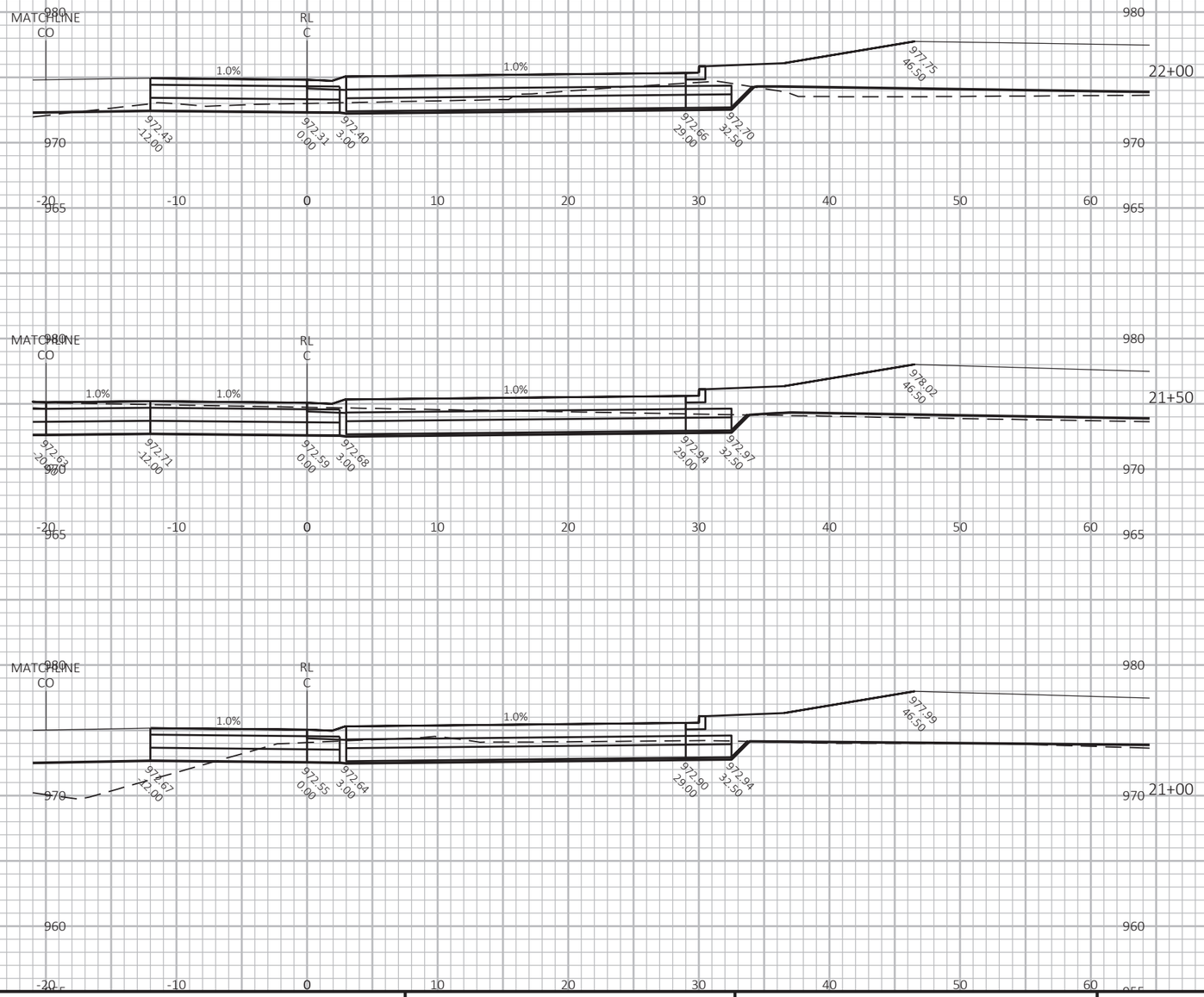
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: CIRCLE	SHEET 277	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CIRCLE.DWG
LAYOUT NAME - 090201_C1

PLOT DATE : 8/13/2021 10:06 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

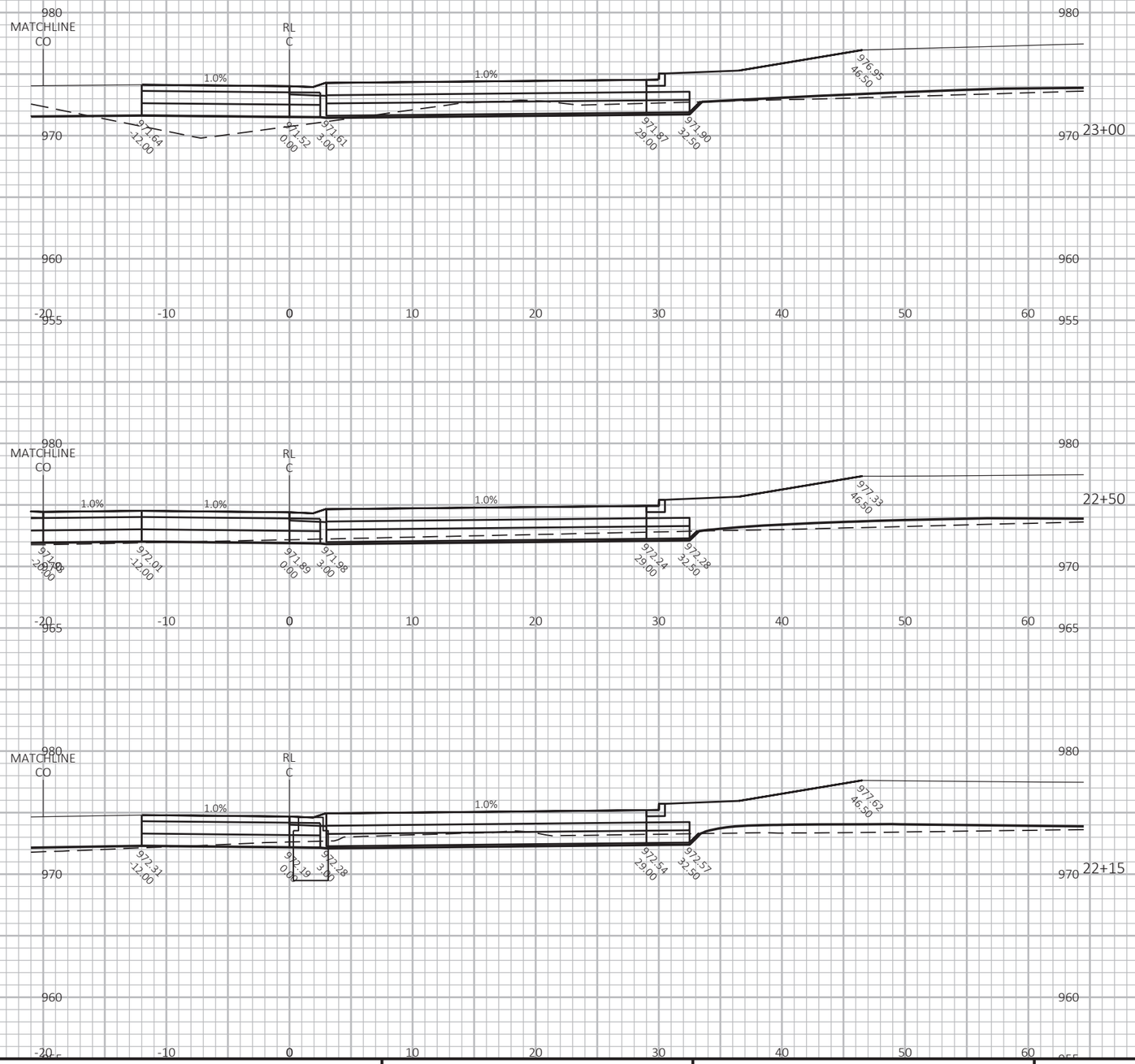
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: CIRCLE	SHEET 278	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CIRCLE.DWG
LAYOUT NAME - 090201_C2

PLOT DATE : 8/13/2021 10:06 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



10 FT

10 FT

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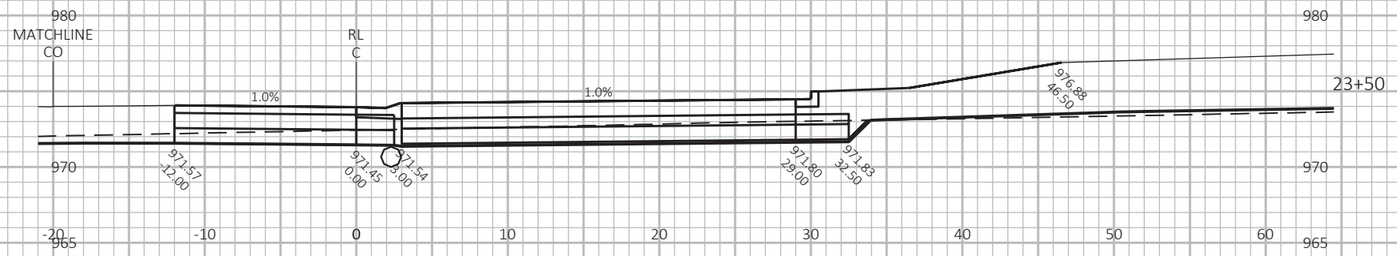
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: CIRCLE	SHEET 279	E

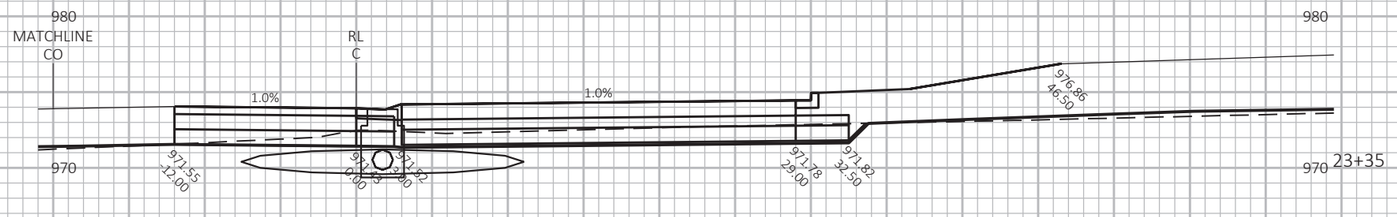
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CIRCLE.DWG
LAYOUT NAME - 090201_C3

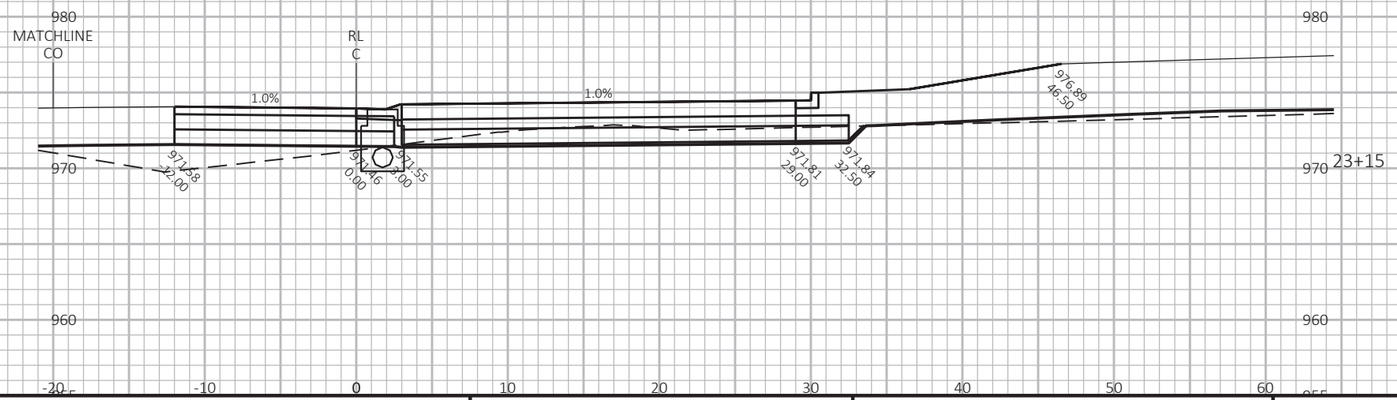
PLOT DATE : 8/13/2021 10:06 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

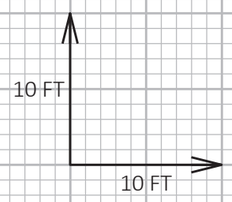
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49









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9

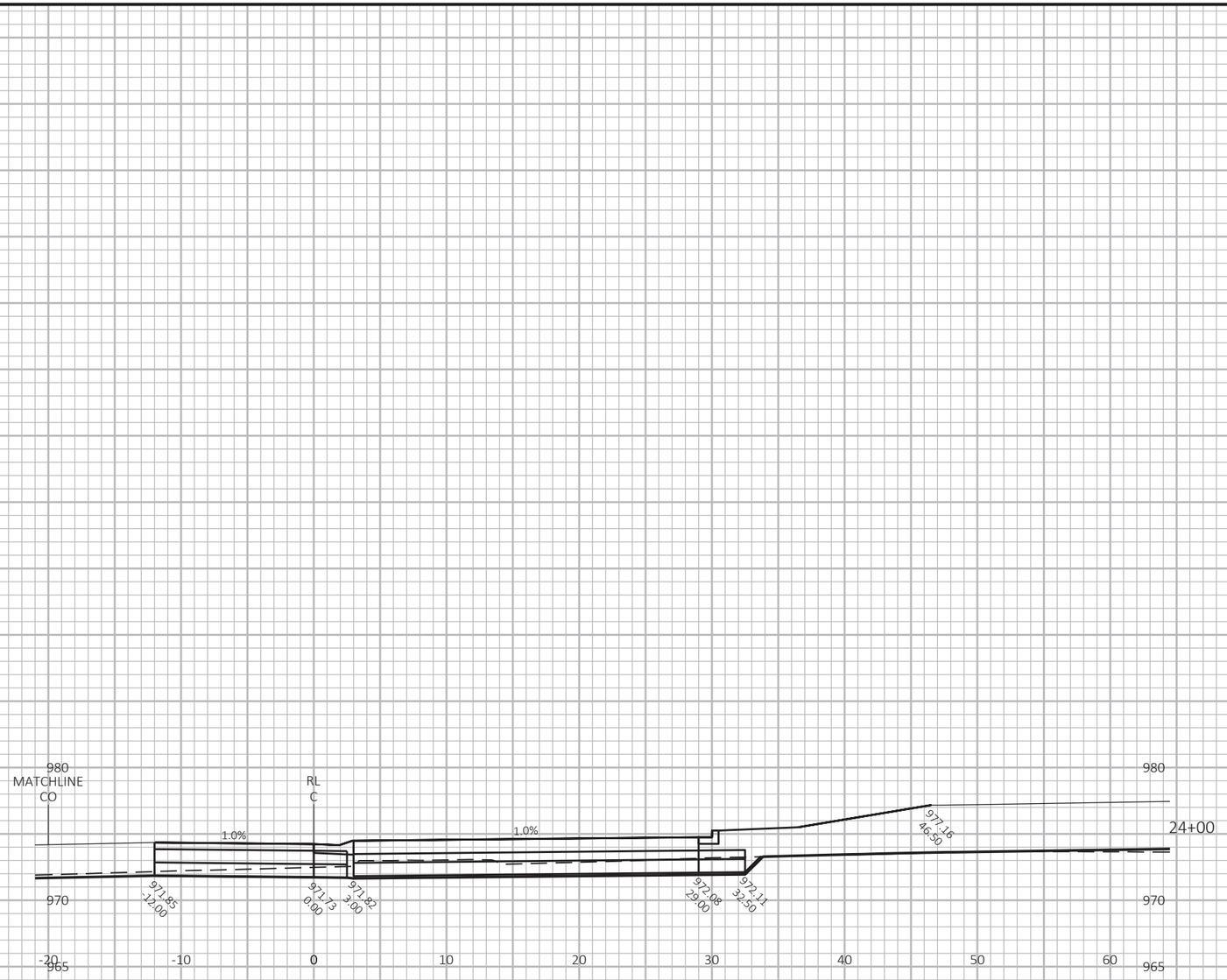
PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: CIRCLE	SHEET 280	E

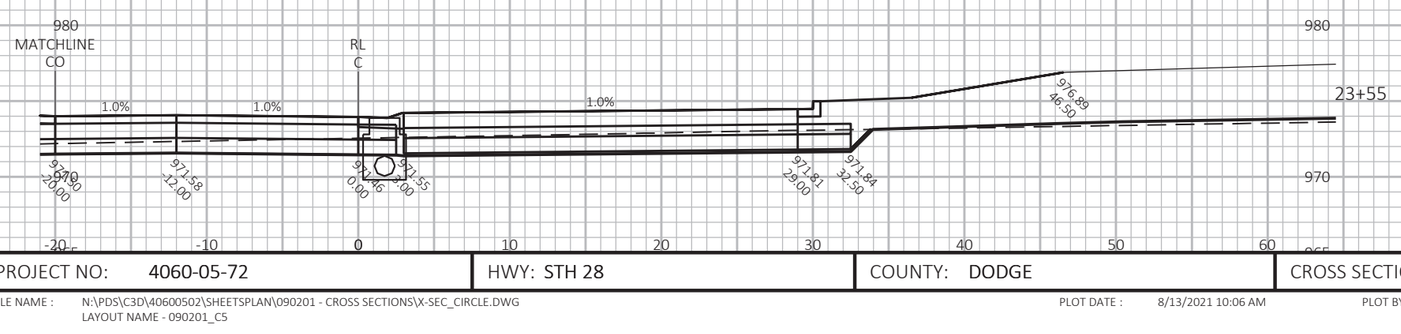
FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CIRCLE.DWG
LAYOUT NAME - 090201_C4

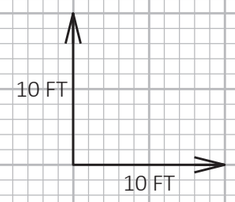
PLOT DATE : 8/13/2021 10:06 AM PLOT BY : BAILEY, RYAN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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9

PROJECT NO: 4060-05-72	HWY: STH 28	COUNTY: DODGE	CROSS SECTIONS: CIRCLE	SHEET 281	E

FILE NAME : N:\PDS\C3D\40600502\SHEETSPLAN\090201 - CROSS SECTIONS\X-SEC_CIRCLE.DWG
LAYOUT NAME - 090201_C5

PLOT DATE : 8/13/2021 10:06 AM

PLOT BY : BAILEY, RYAN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

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