LAX MAY 2014

PROJECT ID: 5971-02-71
WITH: 5988-00-70

COUNTY: SAUK

ORDER OF SHEETS

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

TOTAL SHEETS = 148

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5971-02-71	—	—

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

DEVILS LAKE STATE PARK - BARABOO

SOUTH BOULEVARD INTERSECTION

STH 123

SAUK COUNTY

STATE PROJECT NUMBER

5971-02-71

ACCEPTED FOR CITY OF BARABOO

DATE: _____ (Signature)

Mayor (Title)

DATE: _____ (Signature)

(Title)

ORIGINAL PLANS PREPARED BY

GRAEF

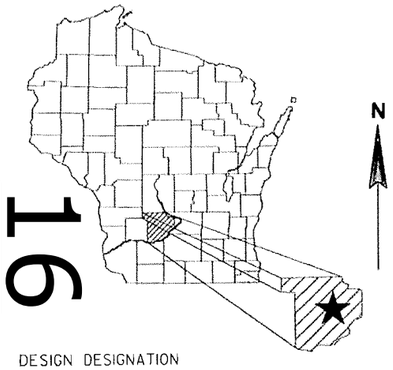
WISCONSIN

ROBERT L. WARREN E-26334 MILWAUKEE, WI

PROFESSIONAL ENGINEER

DATE: 1/13/14 Robert L. Warren (Signature)

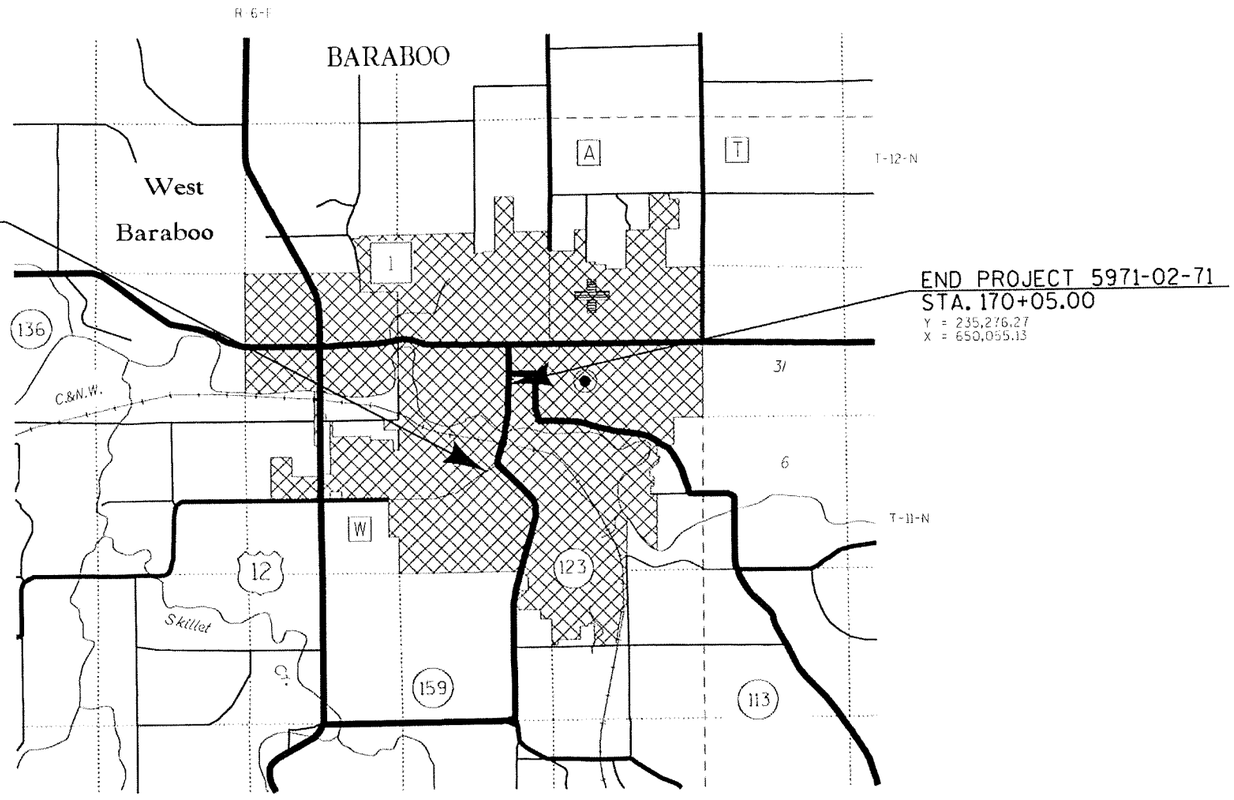
16



DESIGN DESIGNATION

A.A.D.T. (2010)	=	11,500
A.A.D.T. (2030)	=	16,300
D.H.V.	=	1760
D.D.	=	58/42
T.	=	5.6%
DESIGN SPEED	=	40 MPH
ESALS	=	1,992,900

BEGIN PROJECT 5971-02-71
STA. 158+00.00
Y = 234,341.64
X = 649,406.69



END PROJECT 5971-02-71
STA. 170+05.00
Y = 235,276.27
X = 650,055.13

LAYOUT
SCALE 0 1/2 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.228 MI. (URBAN)

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), SAUK COUNTY.

CONVENTIONAL SYMBOLS

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

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	GRAEF
Designer	GRAEF
Project Manager	Jeremy Krachey
Regional Examiner	
Regional Supervisor	Oscar Winger
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 1-14-2014 Oscar A. Winger (Signature)

E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\010101_ti.dgn

PLOT DATE : 1/13/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 200.0000 ft / in. WISDOT/CADDS SHEET 10

2

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS INDICATED FOR REMOVAL BY THE ENGINEER.

THE EXACT LOCATION OF PRIVATE ENTRANCES IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM THE ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES OR FROM GRUBBING OF TREES OR STUMPS SHALL BE BACKFILLED WITH GRANULAR BACKFILL. BACKFILL GRANULAR MATERIAL IS INCIDENTAL TO THE REMOVAL ITEM.

ALL RADIUS DIMENSIONS FOR CURB & GUTTER ARE GIVEN TO THE FLANGE LINE. ALL ELEVATIONS ALONG CURB & GUTTER ARE GIVEN TO THE FLANGE LINE. OFFSETS NOTED ARE TO THE FACE OF CURB OR EDGE OF LANE IF NO CURB, UNLESS OTHERWISE NOTED.

THE LOCATION OF KNOWN EXISTING UTILITIES IN THE VICINITY OF THE PROJECT ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITIES IN THE AREA THAT ARE NOT SHOWN.

ASPHALT PAVEMENT MAY BE REMOVED OR MILLED. COST IS INCLUDED IN COMMON EXCAVATION.

EXCESS ASPHALT MILLINGS MAY BE USED FOR ACCESS PURPOSES.

SILT FENCE SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED, FERTILIZED, AND SODDED AS DIRECTED BY THE ENGINEER.

STATION AND OFFSETS TO MANHOLES ARE GIVEN TO THE CENTER OF THE STRUCTURE.

STATION AND OFFSETS TO INLETS ARE GIVEN TO THE FACE OF CURB.

INLET RIM/GRATE ELEVATIONS ARE TO THE FLANGE LINE.

DEPTH OF STRUCTURES ARE MEASURED FROM THE LOWEST INVERT OF THE STRUCTURE TO THE RIM/GRATE ELEVATION.

PIPE LENGTHS FOR STRUCTURES ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

ALL EROSION CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.

HMA PAVEMENT, TYPE E-3 WHERE INDICATED ON THE PLANS, SHALL CONSIST OF LAYERS AS FOLLOWS, UNLESS OTHERWISE NOTRED ON TEH PLANS OR DIRECTED BY THE ENGINEER.

5.5" DEPTH: 3.5" OF 19mm HMA PAVEMENT, TYPE E-3
PERFORMANCE GRADE 64-28, AS THE LOWER LAYER

2" OF 12.5 mm HMA PAVEMENT, TYPE E-3
PERFORMANCE GRADE 64-28, AS THE UPPER LAYER

ASPHALT AND CONCRETE DRIVEWAYS SHALL BE SAWCUT AT THE MATCH LINE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DRIVEWAY TYPES AND THICKNESSES (PER LOCATION PER PLAN):

ASPHALT DRIVEWAY, 3½-INCHES HMA SHALL CONSIST OF THE FOLLOWING:

6" OF BASE AGGREGATE DENSE 1¼-INCH AS THE BASE LAYER

3½" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

CONCRETE DRIVEWAY, 6-INCHES SHALL CONSIST OF THE FOLLOWING:

4" OF BASE AGGREGATE DENSE 1¼-INCH AS THE BASE LAYER

6" CONCRETE DRIVEWAY

CURB AND GUTTER AND SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT, IF THE NEAREST JOINT IS 4-FEET OR LESS. IT SHALL BE REMOVED TO THE LOCATION SHOWN ON THE PLAN (SAWCUT) IF THIS NEAREST JOINT IS GREATER THAN 4-FEET.

ALL TRAFFIC SIGNS TO BE REMOVED AND SALVAGED FOR THE CITY OF BARABOO DEPARTMENT OF PUBLIC WORKS. NOTIFY TOM PINION, DIRECTOR OF PUBLIC WORKS AT (608) 355-2730 THREE (3) DAYS PRIOR TO REMOVING THE SIGNS.

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

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

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

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

ELEVATIONS SHOWN ON PLANS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL NORTH AMERICAN DATUM 1983 (1991).

UTILITIES

UTILITY OR MUNICIPALITY	ADDRESS	CONCTACT	UTILITY TYPE
WISCONSIN DEPARTMENT OF TRANSPORTATION	3550 MORMON COURT LACROSSE, WI 54601	JEFF VOLLMAR jeff.vollmar@dot.wi.gov 608-789-5542	SIGNALS
CITY OF BARABOO	450 ROUNDHOUSE COURT BARABOO, WI 53913	WADE PETERSON wpeterson@cityofbaraboo.com 608-355-2740	SEWER & WATER

AGENCIES

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
MS. CATHY BLESER
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
catherine.bleser@wisconsin.gov
608-275-3308

CITY OF BARABOO
MR. TOM PINION
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
135 4TH STREET
BARABOO, WI 53913
tpinion@cityofbaraboo.com
608-355-2730

GRAEF
MR. BOB WARREN
125 S. 84TH STREET STE. 401
MILWAUKEE, WI 53214
robert.warren@graef-usa.com
414-266-9032

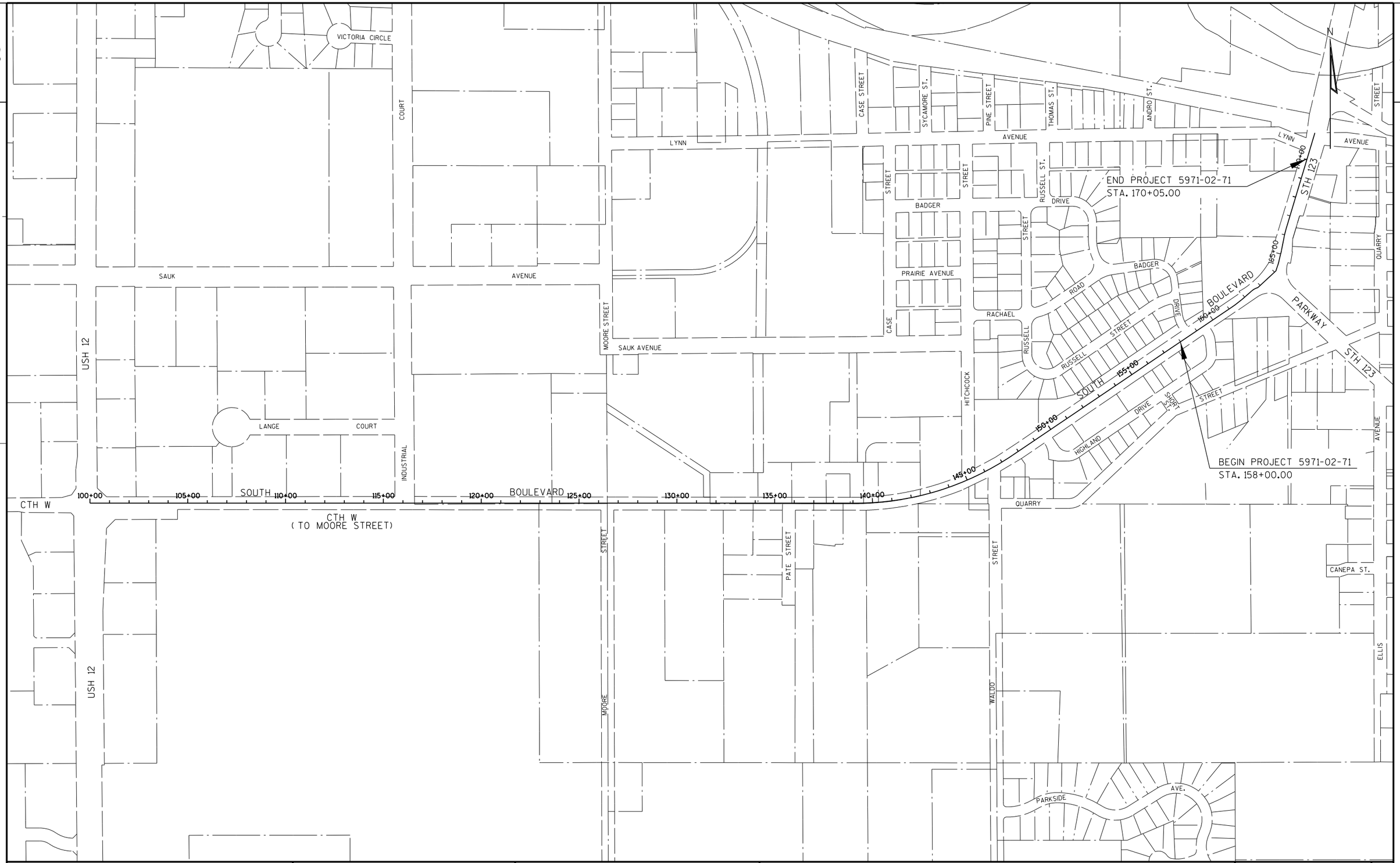
ORDER OF TYPICAL SECTION AND DETAIL SHEETS

WRITTEN MATERIAL
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLAN
INTERSECTION DETAIL
PLAN DETAILS
STORM SEWER AND EROSION CONTROL
LIGHTING PLAN
TRAFFIC SIGNAL PLAN
PAVEMENT MARKING AND SIGNING
TRAFFIC CONTROL
DETOUR ROUTE
ALIGNMENT

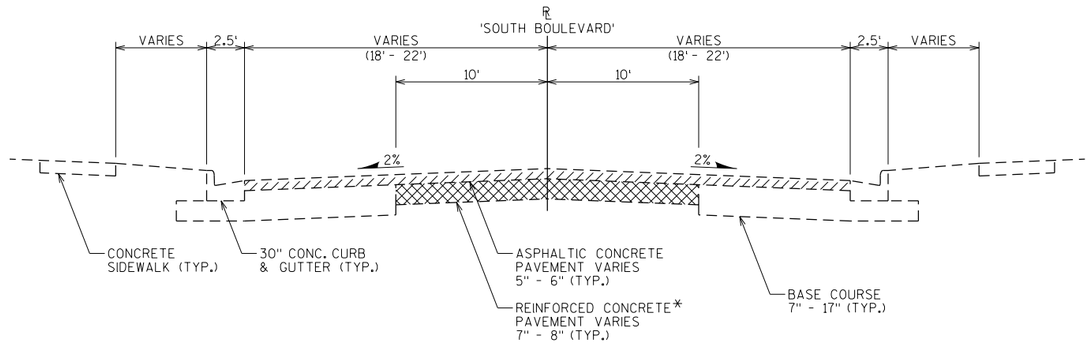
ABBREVIATIONS

B	BARN
B.O.C.	BACK OF CURB
BUS	BUSINESS
C.A.B.C.	CRUSHED AGGREGATE BASE COURSE
CE	COMMERCIAL ENTRANCE
CMPA	CORRUGATED METAL PIPE ARCH
CMP	CORRUGATED METAL PIPE
CTR	CENTER
G	GARAGE
H	HOUSE
HP	HIGH POINT
LHE	LIMITED HIGHWAY EASEMENT
LOC.	LOCATION
MAX.	MAXIMUM
NOR.	NORMAL
P.L.	PROPERTY LINE
P.O.C.	POINT ON CURVE
PP	POWER POLE
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
RAD.	RADIUS
RCSP	REINFORCED CONCRETE SEWER PIPE
R.O.	RUNOUT
S	SOUTH OR SHED
S.S.	STORM SEWER
SE	SUPERELEVATION NUMBER

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



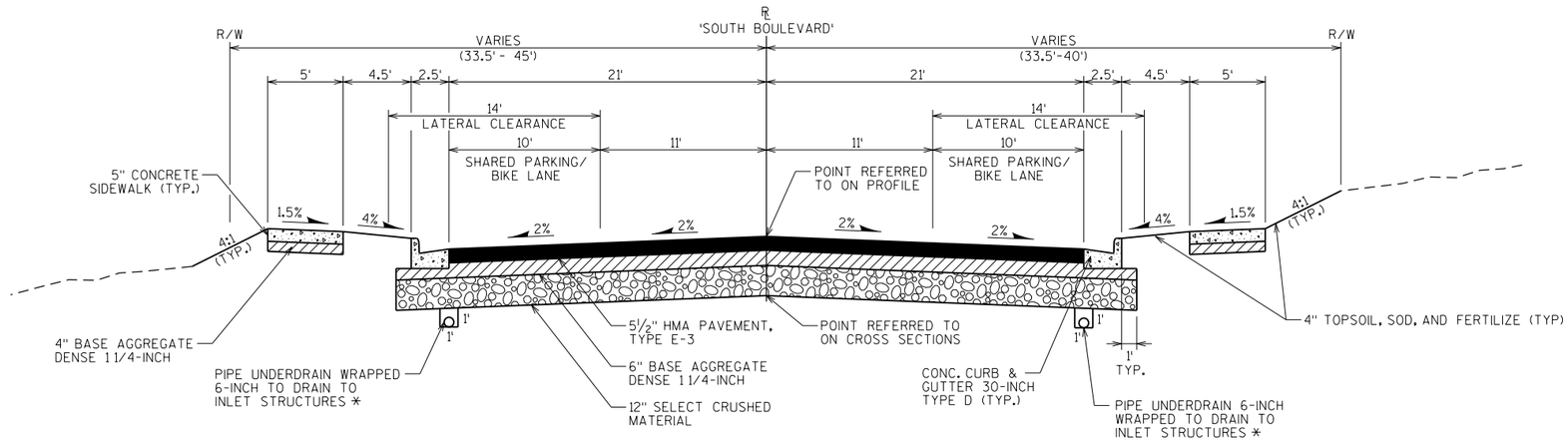
PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PROJECT OVERVIEW	SHEET 3	E



TYPICAL URBAN EXISTING SECTION - SOUTH BOULEVARD

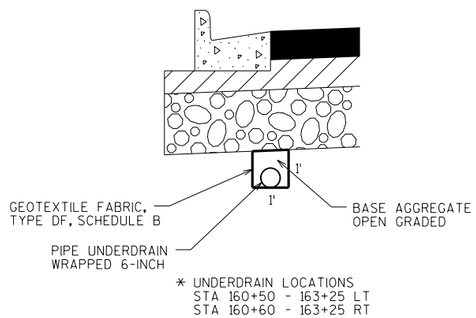
STA. 158+00 TO STA. 170+05

* NO CONCRETE STA. 158+00 - 164+20, RECONSTRUCTED WITH 6-INCH BASE AGGREGATE ON 9-INCH BREAKER RUN



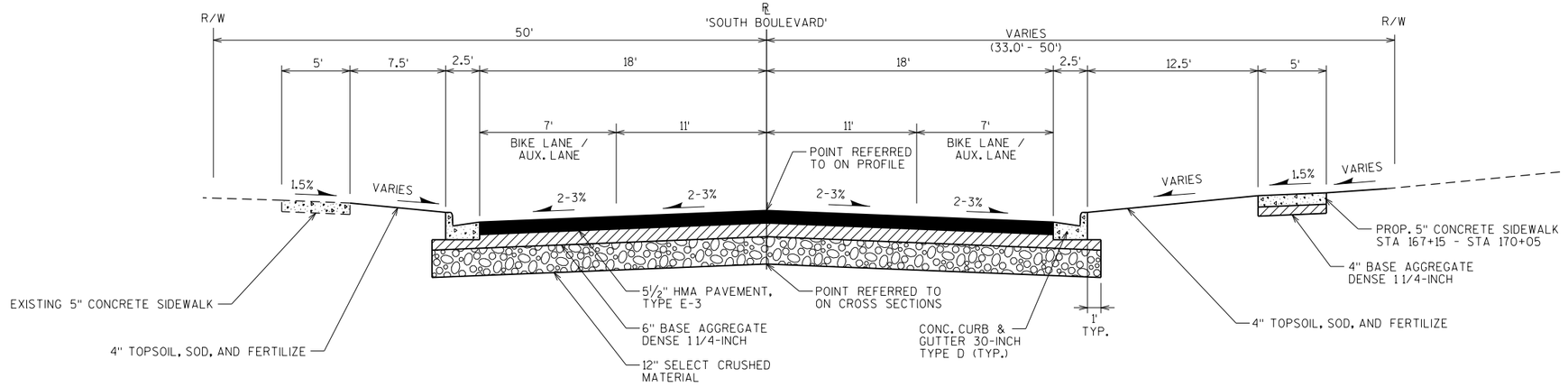
TYPICAL FINISHED SECTION - SOUTH BOULEVARD

STA. 158+00 TO STA. 163+50



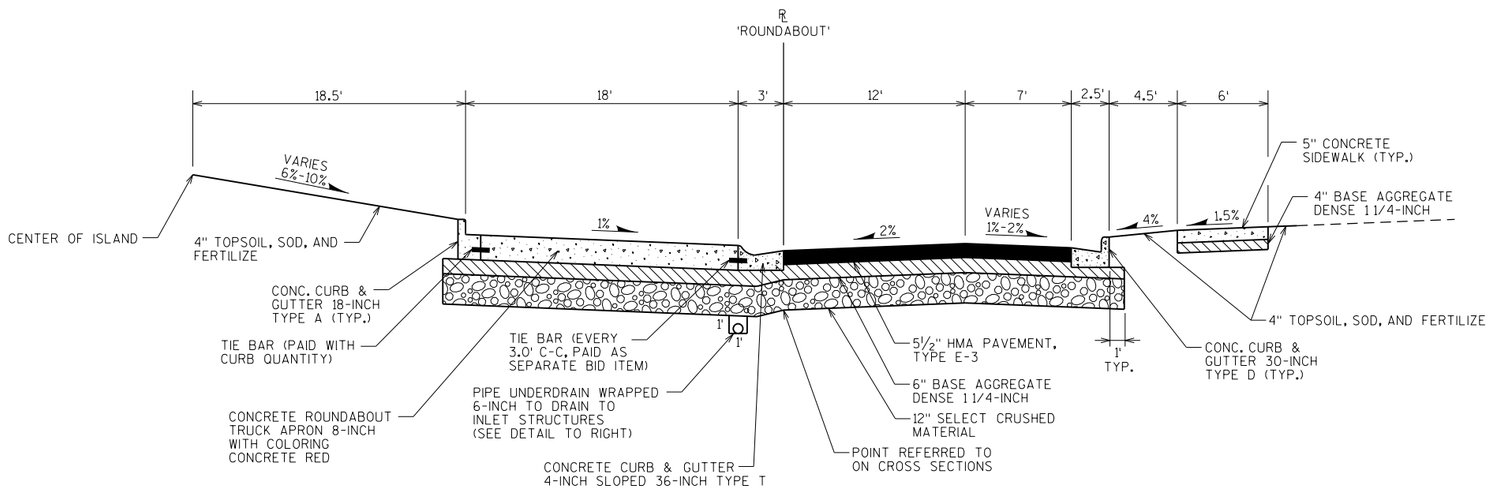
* UNDERDRAIN LOCATIONS
STA 160+50 - 163+25 LT
STA 160+60 - 163+25 RT

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	TYPICAL SECTIONS	SHEET 4	E



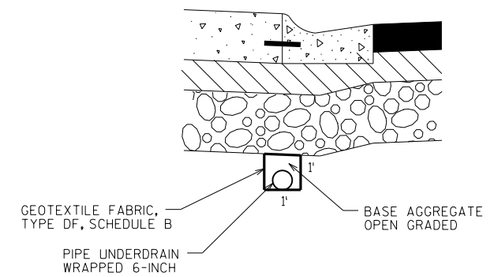
TYPICAL FINISHED SECTION - SOUTH BOULEVARD

STA. 166+27 TO STA. 170+05



TYPICAL FINISHED SECTION - ROUNDABOUT

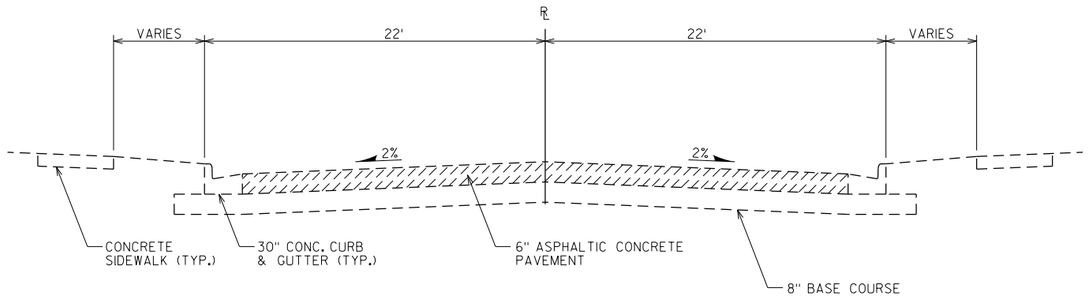
STA. 40+00 TO STA. 42+45



PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	TYPICAL SECTIONS	SHEET 5	E

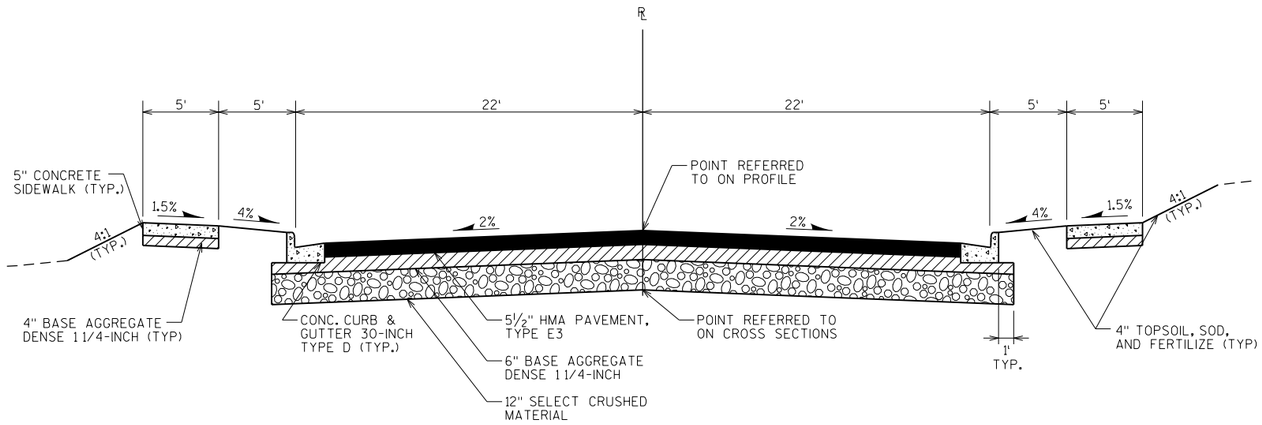
FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\020302_ts.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 200.0000 ft / in.

WISDOT/CADDS SHEET 42



TYPICAL EXISTING SECTION - SIDE ROADS

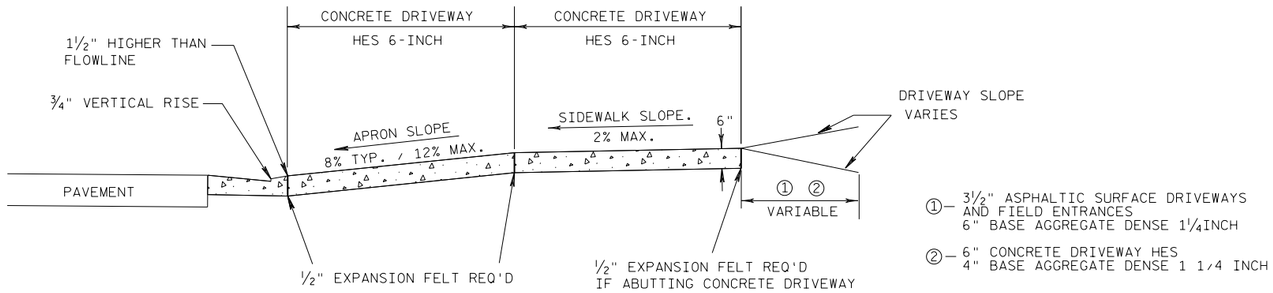
PARKWAY (STH 123)



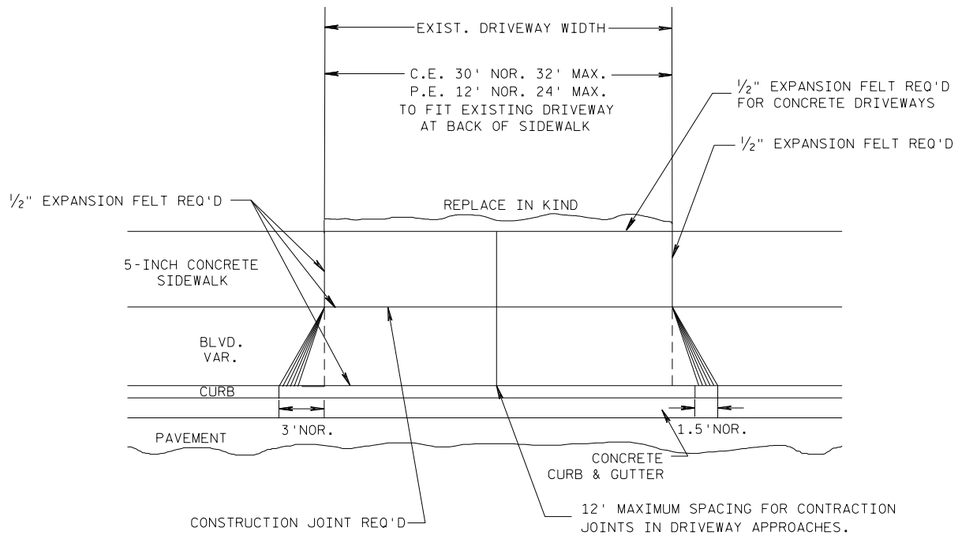
TYPICAL FINISHED SECTION - SIDE ROADS

PARKWAY (STH 123)

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	TYPICAL SECTIONS	SHEET 6	E

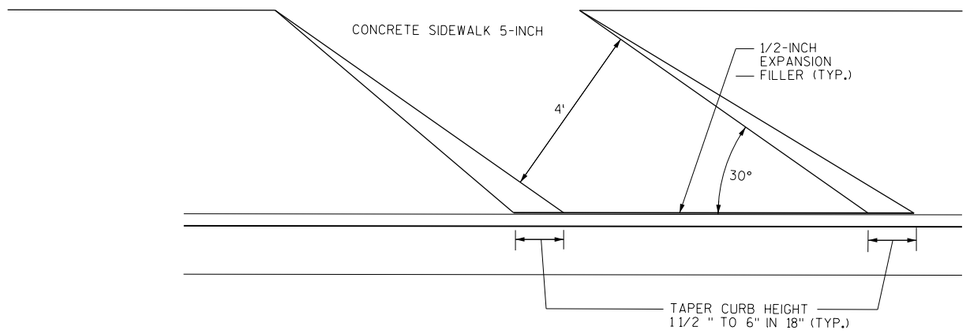


TYPICAL DRIVEWAY SECTION



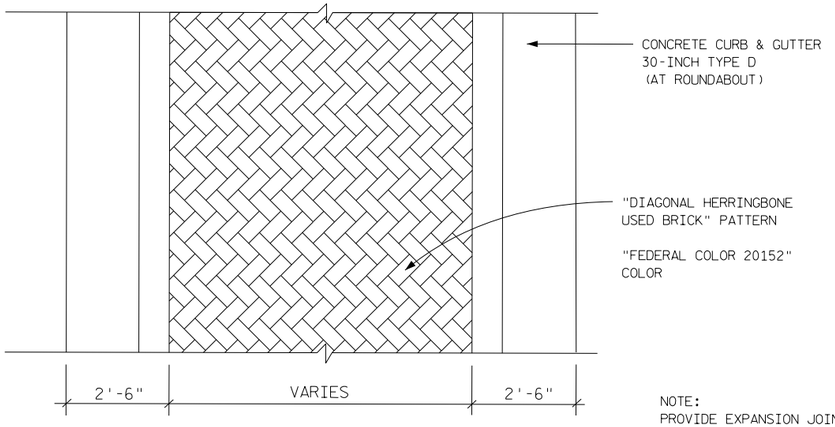
PLAN VIEW

DRIVEWAY ENTRANCE DETAIL WITH SIDEWALK, CURB & GUTTER



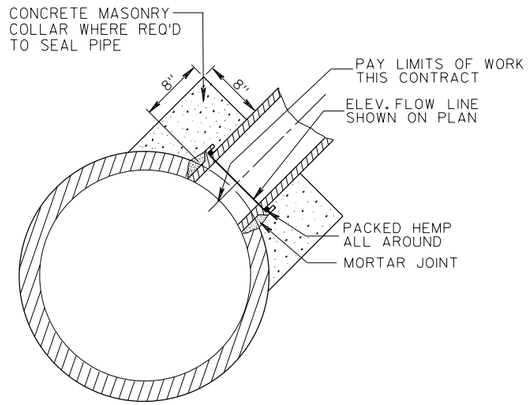
BIKE RAMP DETAIL

SOUTH BLVD. STATION 161+49 LT
SOUTH BLVD. STATION 161+57 RT
SOUTH BLVD. STATION 164+85 RT
SOUTH BLVD. STATION 165+33 LT
PARKWAY STATION 201+04 LT
PARKWAY STATION 201+06 RT



NOTE:
PROVIDE EXPANSION JOINTS
@ MIN. 25' O.C. (TYP)

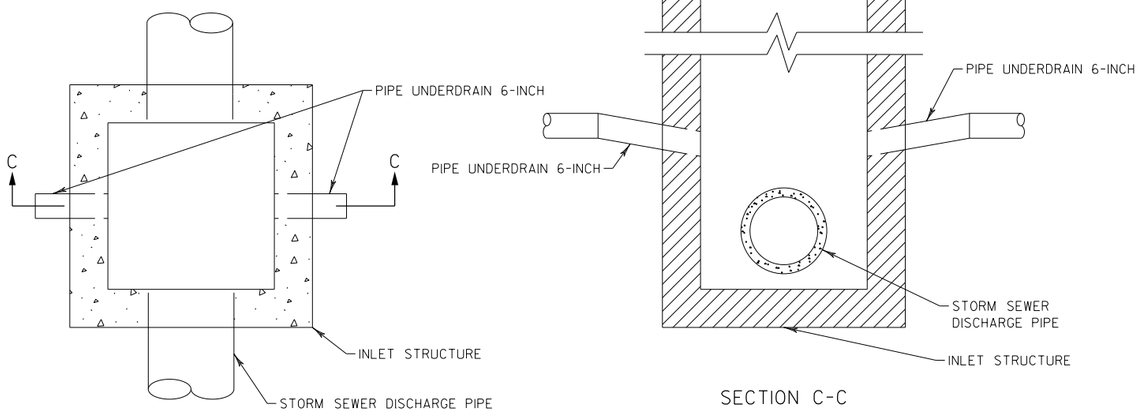
STAMPED COLORED CONCRETE SIDEWALK 4-INCH



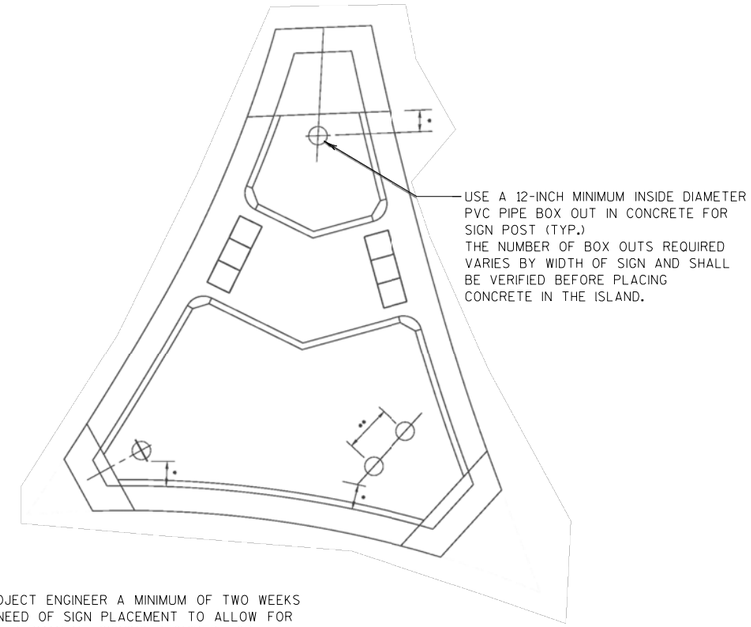
DETAIL OF CONNECTION TO STORM SEWER

NOTES

1. PROVIDE 6" DIA. OPENINGS FOR UNDERDRAIN PIPE AS NECESSARY.
2. SEE TYPICAL SECTIONS AND MISCELLANEOUS QUANTITIES FOR PIPE UNDERDRAIN LOCATIONS.



UNDERDRAIN OUTFALL AT INLET



NOTES

NOTIFY THE PROJECT ENGINEER A MINIMUM OF TWO WEEKS PRIOR TO THE NEED OF SIGN PLACEMENT TO ALLOW FOR STAKING OF THE PERMANENT SIGNING REQUIRED FOR THE PROJECT.

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

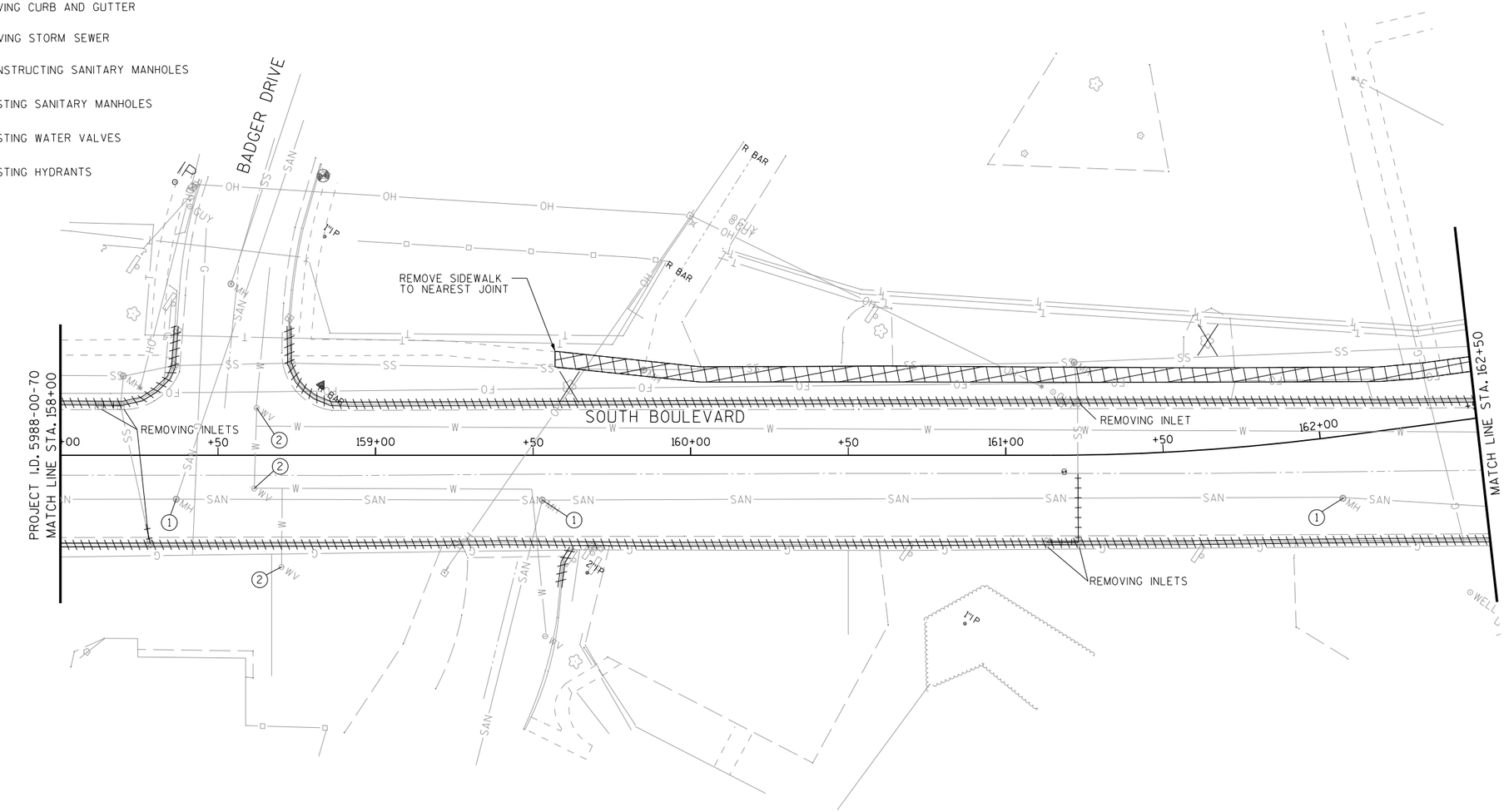
•• SEE SIGN DETAILS FOR POST SPACING.

PLACING SIGNS IN CONCRETE

2

LEGEND

- TREE TO BE REMOVED
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- (R) RECONSTRUCTING SANITARY MANHOLES
- (1) ADJUSTING SANITARY MANHOLES
- (2) ADJUSTING WATER VALVES
- (3) ADJUSTING HYDRANTS



2

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	REMOVAL PLAN	SHEET 9	E

2

LEGEND

- TREE TO BE REMOVED
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- (R) RECONSTRUCTING SANITARY MANHOLES
- (1) ADJUSTING SANITARY MANHOLES
- (2) ADJUSTING WATER VALVES
- (3) ADJUSTING HYDRANTS

N

MATCH LINE STA. 162+50

163+00

40+00

42+00

+50

REMOVE INLETS

41+00

164+00

200+00

REMOVE SIDEWALK TO NEAREST JOINT (TYP.)

SEALING PIPES

165+00

REMOVE INLETS

SOUTH BOULEVARD (STH 123)

166+00

MATCH LINE STA. 166+50

REMOVE SIDEWALK TO NEAREST JOINT (TYP.)

PARKWAY (STH 123)

201+00

05+

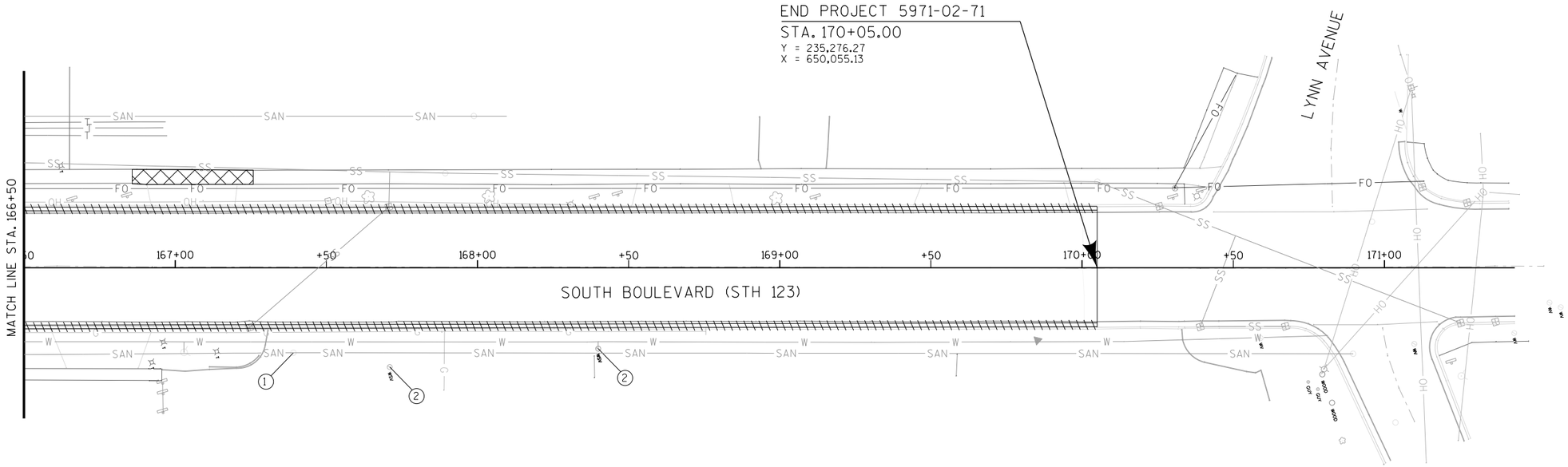
202+00

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	REMOVAL PLAN	SHEET 10	E

2

LEGEND

- TREE TO BE REMOVED
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- (R) RECONSTRUCTING SANITARY MANHOLES
- (1) ADJUSTING SANITARY MANHOLES
- (2) ADJUSTING WATER VALVES
- (3) ADJUSTING HYDRANTS

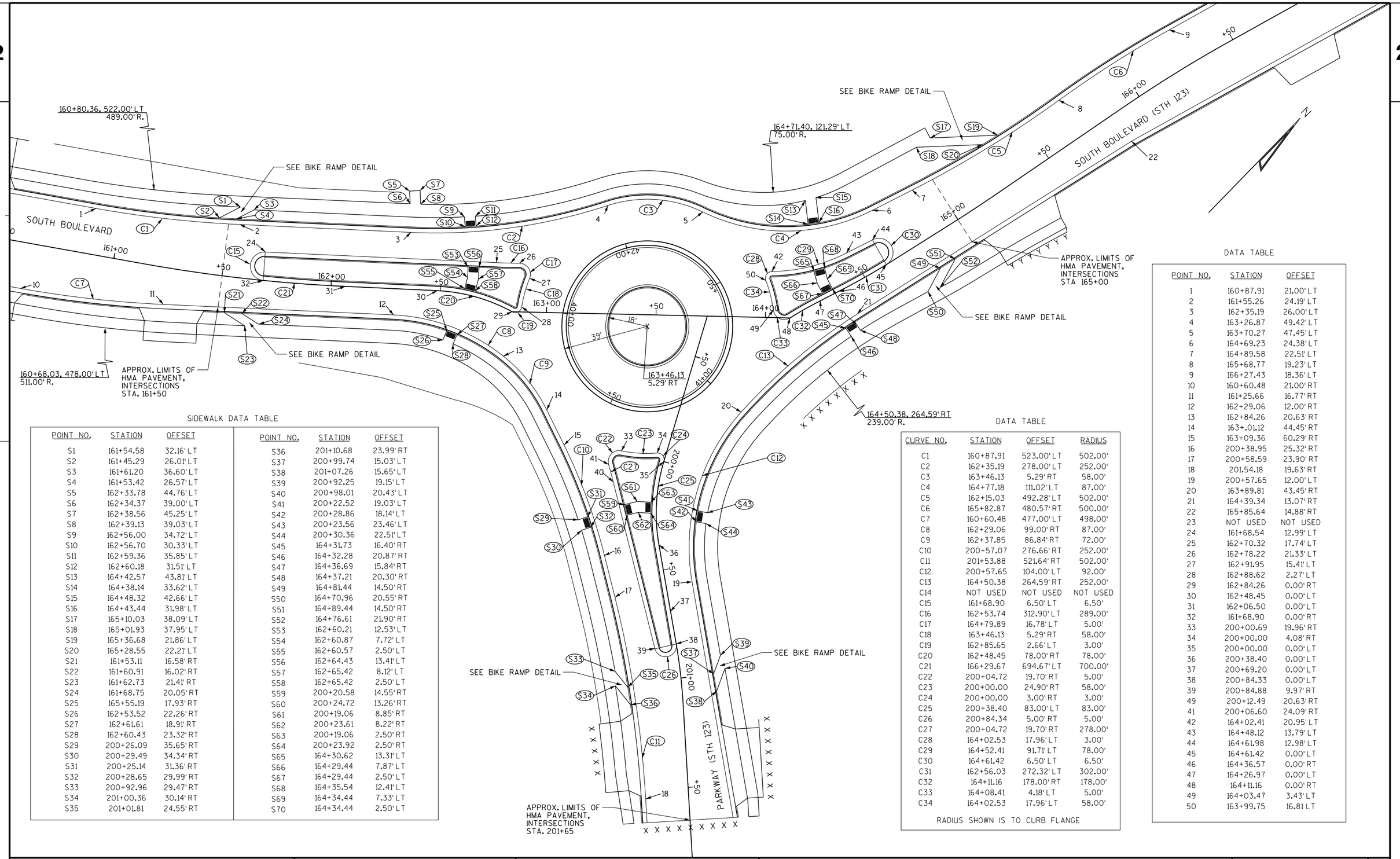


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PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	REMOVAL PLAN	SHEET 11	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\021018_cd.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0139 ft / in.

WISDOT/CADDS SHEET 42



SIDEWALK DATA TABLE

POINT NO.	STATION	OFFSET
S1	161+54.58	32.16'LT
S2	161+45.29	26.01'LT
S3	161+61.20	36.60'LT
S4	161+53.42	26.57'LT
S5	162+33.78	44.76'LT
S6	162+34.37	39.00'LT
S7	162+38.56	45.25'LT
S8	162+39.13	39.03'LT
S9	162+56.00	34.72'LT
S10	162+56.70	30.33'LT
S11	162+59.36	35.85'LT
S12	162+60.18	31.51'LT
S13	164+42.57	43.81'LT
S14	164+38.14	33.62'LT
S15	164+48.32	42.66'LT
S16	164+43.44	31.98'LT
S17	165+10.03	38.09'LT
S18	165+01.93	37.95'LT
S19	165+36.68	21.86'LT
S20	165+28.55	22.21'LT
S21	161+53.11	16.58'RT
S22	161+60.91	16.02'RT
S23	161+62.73	21.41'RT
S24	161+68.75	20.05'RT
S25	165+55.19	17.93'RT
S26	162+53.52	22.26'RT
S27	162+61.61	18.91'RT
S28	162+60.43	23.32'RT
S29	200+26.09	35.65'RT
S30	200+29.49	34.34'RT
S31	200+25.14	31.36'RT
S32	200+28.65	29.99'RT
S33	200+92.96	29.47'RT
S34	201+00.36	30.14'RT
S35	201+01.81	24.55'RT
S36	201+10.68	23.99'RT
S37	200+99.74	15.03'LT
S38	201+07.26	15.65'LT
S39	200+92.25	19.15'LT
S40	200+98.01	20.43'LT
S41	200+22.52	19.03'LT
S42	200+28.86	18.14'LT
S43	200+23.56	23.46'LT
S44	200+30.36	22.51'LT
S45	164+31.73	16.40'RT
S46	164+32.28	20.87'RT
S47	164+36.69	15.84'RT
S48	164+37.21	20.30'RT
S49	164+81.44	14.50'RT
S50	164+70.96	20.55'RT
S51	164+89.44	14.50'RT
S52	164+76.61	21.90'RT
S53	162+60.21	12.53'LT
S54	162+60.87	7.72'LT
S55	162+60.57	2.50'LT
S56	162+64.43	13.41'LT
S57	162+65.42	8.12'LT
S58	162+65.42	2.50'LT
S59	200+20.58	14.55'RT
S60	200+24.72	13.26'RT
S61	200+19.06	8.85'RT
S62	200+23.61	8.22'RT
S63	200+19.06	2.50'RT
S64	200+23.92	2.50'RT
S65	164+30.62	13.31'LT
S66	164+29.44	7.87'LT
S67	164+29.44	2.50'LT
S68	164+35.54	12.41'LT
S69	164+34.44	7.33'LT
S70	164+34.44	2.50'LT

DATA TABLE

CURVE NO.	STATION	OFFSET	RADIUS
C1	160+87.91	523.00'LT	502.00'
C2	162+35.19	278.00'LT	252.00'
C3	163+46.13	5.29'RT	58.00'
C4	164+77.18	111.02'LT	87.00'
C5	162+15.03	492.28'LT	502.00'
C6	165+82.87	480.57'RT	500.00'
C7	160+60.48	477.00'LT	498.00'
C8	162+29.06	99.00'RT	87.00'
C9	162+37.85	86.84'RT	72.00'
C10	200+57.07	276.66'RT	252.00'
C11	201+53.88	521.64'RT	502.00'
C12	200+57.65	104.00'LT	92.00'
C13	164+50.38	264.59'RT	252.00'
C14	NOT USED	NOT USED	NOT USED
C15	161+68.90	6.50'LT	6.50'
C16	162+53.74	312.90'LT	289.00'
C17	164+79.89	16.78'LT	5.00'
C18	163+46.13	5.29'RT	58.00'
C19	162+85.65	2.66'LT	3.00'
C20	162+48.45	78.00'RT	78.00'
C21	166+29.67	694.67'LT	700.00'
C22	200+04.72	19.70'RT	5.00'
C23	200+00.00	24.90'RT	58.00'
C24	200+00.00	3.00'RT	3.00'
C25	200+38.40	83.00'LT	83.00'
C26	200+84.34	5.00'RT	5.00'
C27	200+04.72	19.70'RT	278.00'
C28	164+02.53	17.96'LT	3.00'
C29	164+52.41	91.71'LT	78.00'
C30	164+61.42	6.50'LT	6.50'
C31	162+56.03	272.32'LT	302.00'
C32	164+11.16	178.00'RT	178.00'
C33	164+08.41	4.18'LT	5.00'
C34	164+02.53	17.96'LT	58.00'

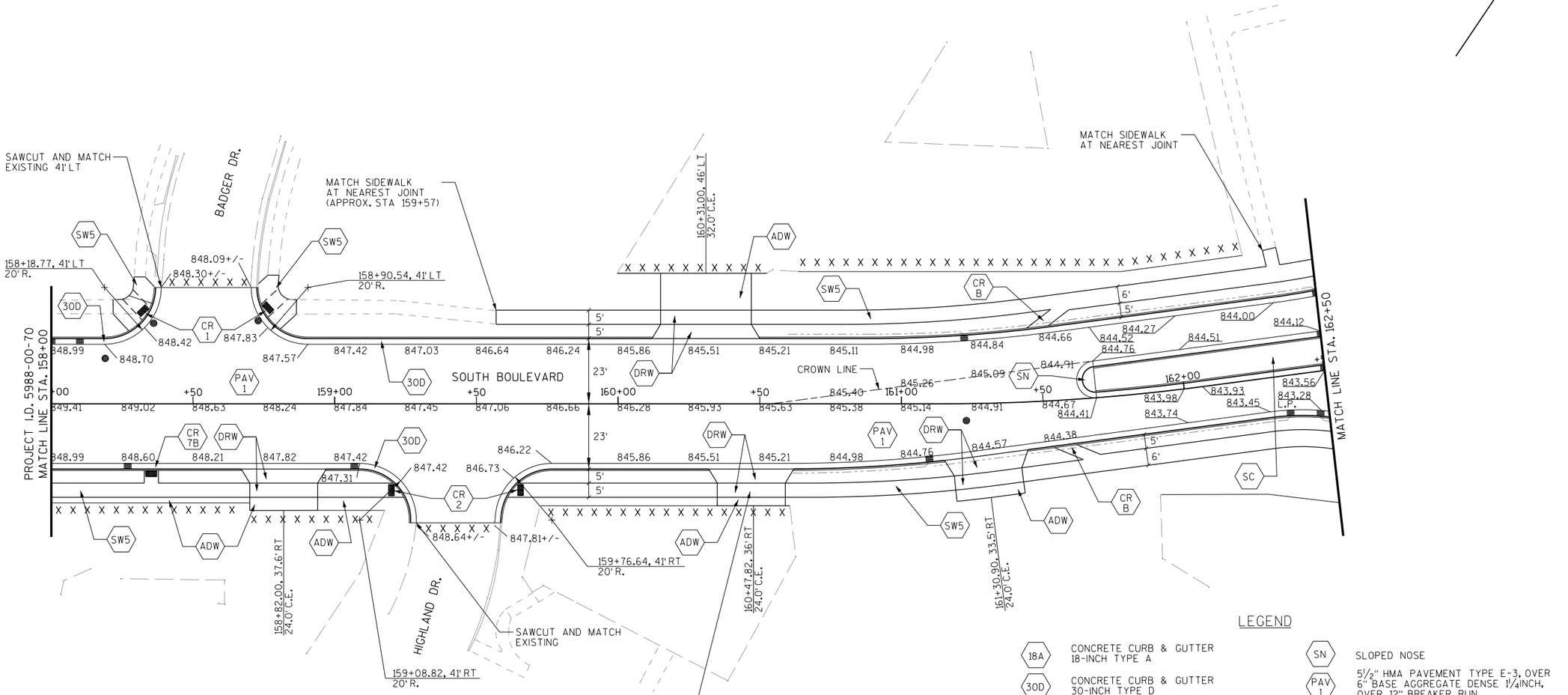
RADIUS SHOWN IS TO CURB FLANGE

DATA TABLE

POINT NO.	STATION	OFFSET
1	160+87.91	21.00'LT
2	161+55.26	24.19'LT
3	162+35.19	26.00'LT
4	163+26.87	49.42'LT
5	163+70.27	47.45'LT
6	164+69.23	24.38'LT
7	164+89.58	22.51'LT
8	165+68.77	19.23'LT
9	166+27.43	18.36'LT
10	160+60.48	21.00'RT
11	161+25.66	16.77'RT
12	162+29.06	12.00'RT
13	162+84.26	20.63'RT
14	163+.01.12	44.45'RT
15	163+09.36	60.29'RT
16	200+38.95	25.32'RT
17	200+58.59	23.90'RT
18	201.54.18	19.63'RT
19	200+57.65	12.00'LT
20	163+89.81	43.45'RT
21	164+39.34	13.07'RT
22	165+85.64	14.88'RT
23	NOT USED	NOT USED
24	161+68.54	12.99'LT
25	162+70.32	17.74'LT
26	162+78.22	21.33'LT
27	162+91.95	15.41'LT
28	162+88.62	2.27'LT
29	162+84.26	0.00'RT
30	162+48.45	0.00'LT
31	162+06.50	0.00'LT
32	161+68.90	0.00'RT
33	200+00.69	19.96'RT
34	200+00.00	4.08'RT
35	200+00.00	0.00'LT
36	200+38.40	0.00'LT
37	200+69.20	0.00'LT
38	200+84.33	0.00'LT
39	200+84.88	9.97'RT
49	200+12.49	20.63'RT
41	200+06.60	24.09'RT
42	164+02.41	20.95'LT
43	164+48.12	13.79'LT
44	164+61.98	12.98'LT
45	164+61.42	0.00'LT
46	164+36.57	0.00'RT
47	164+26.97	0.00'LT
48	164+11.16	0.00'RT
49	164+03.47	3.43'LT
50	163+99.75	16.81'LT

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	INTERSECTION DETAIL SHEET	SHEET 12	E

2



LEGEND

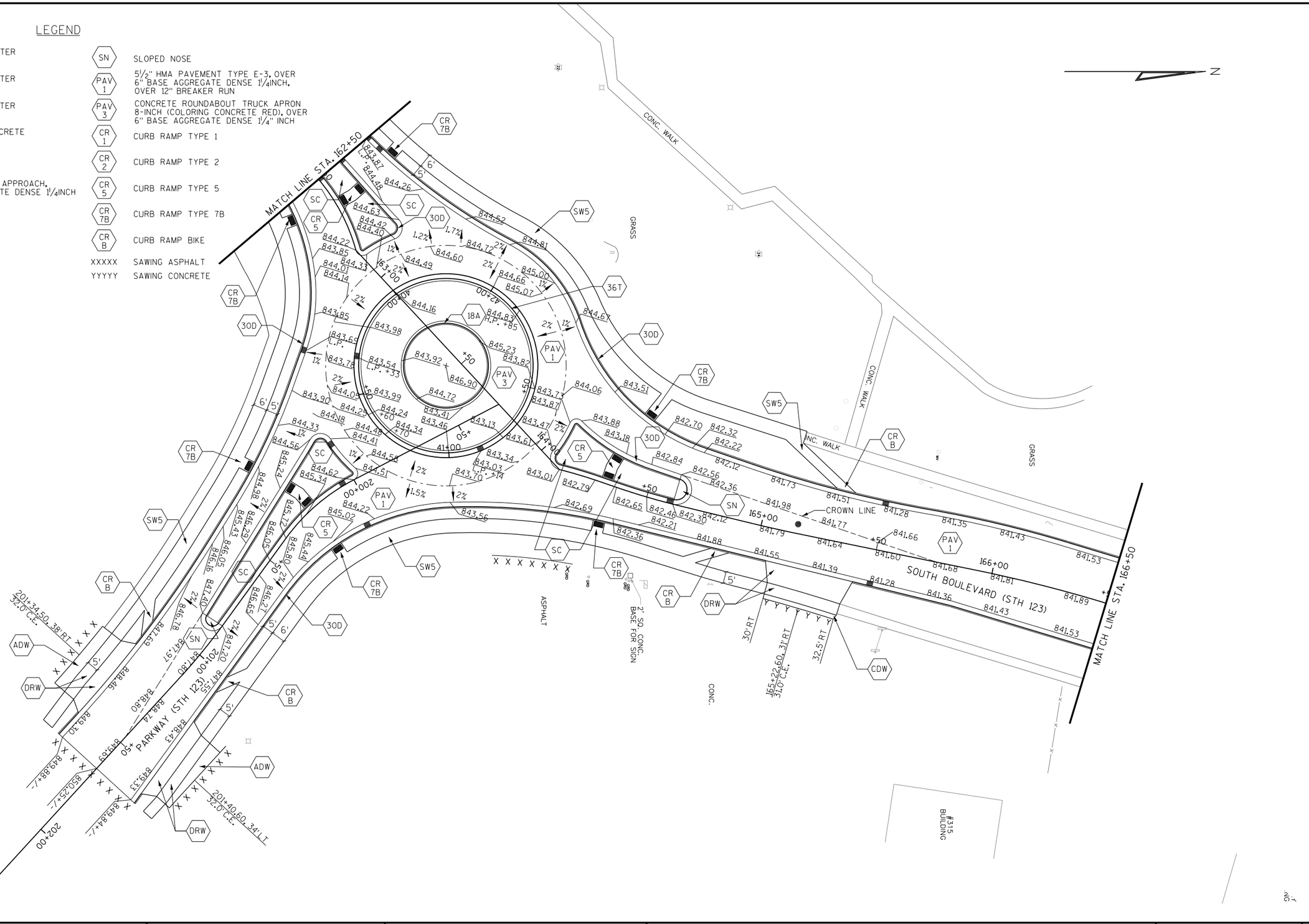
18A	CONCRETE CURB & GUTTER 18-INCH TYPE A	SN	SLOPED NOSE
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D	PAV 1	5½" HMA PAVEMENT TYPE E-3, OVER 6" BASE AGGREGATE DENSE 1¼INCH, OVER 12" BREAKER RUN
36T	CONCRETE CURB & GUTTER 36-INCH TYPE T	PAV 3	CONCRETE ROUNDABOUT TRUCK APRON 8-INCH (COLORING CONCRETE RED), OVER 6" BASE AGGREGATE DENSE 1¼" INCH
SC	STAMPED COLORED CONCRETE SIDEWALK 4-INCH	CR 1	CURB RAMP TYPE 1
SW5	CONCRETE SIDEWALK 5-INCH	CR 2	CURB RAMP TYPE 2
DRW	6" CONCRETE DRIVEWAY APPROACH, OVER 4" BASE AGGREGATE DENSE 1¼INCH	CR 5	CURB RAMP TYPE 5
ADW	3½" ASPHALT DRIVEWAY	CR 7B	CURB RAMP TYPE 7B
GDW	6" GRAVEL DRIVEWAY	CR B	CURB RAMP BIKE
CDW	6" CONCRETE DRIVEWAY	XXXXX	SAWING ASPHALT
		YYYYY	SAWING CONCRETE

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN DETAILS	SHEET 13	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\021211_pd.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.

LEGEND

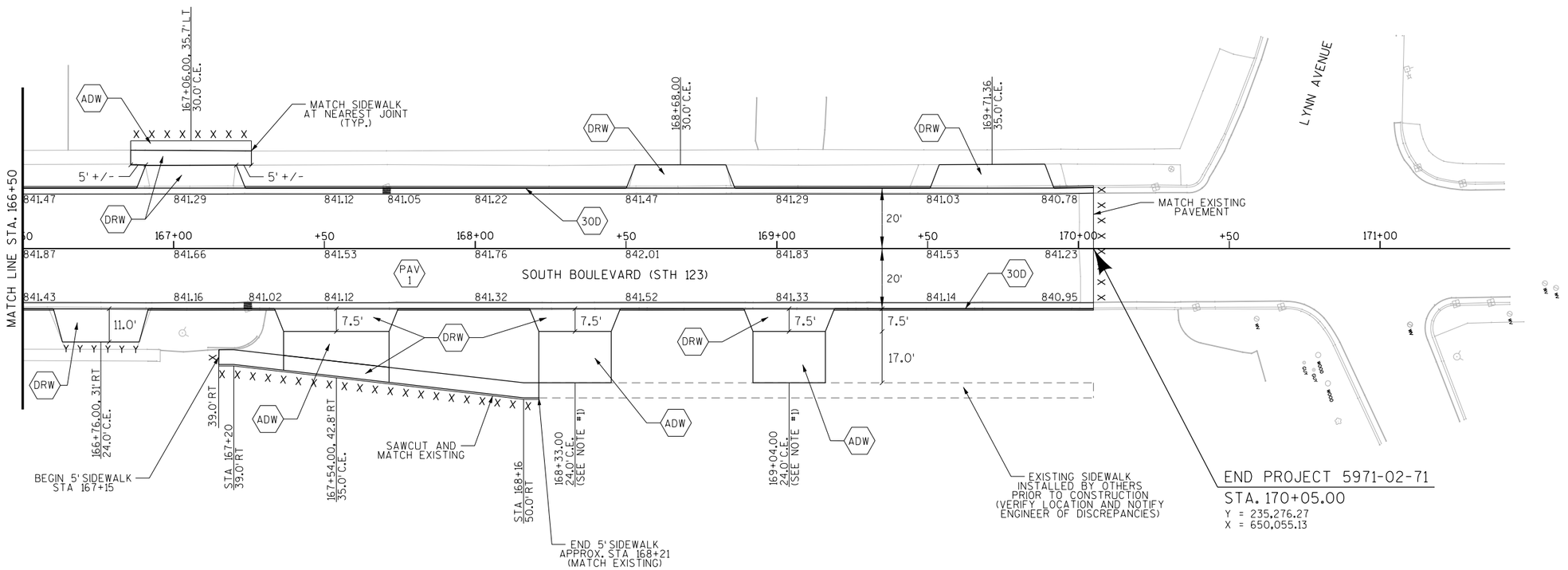
18A	CONCRETE CURB & GUTTER 18-INCH TYPE A
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
36T	CONCRETE CURB & GUTTER 36-INCH TYPE T
SC	STAMPED COLORED CONCRETE SIDEWALK 4-INCH
SW5	CONCRETE SIDEWALK 5-INCH
DRW	6" CONCRETE DRIVEWAY APPROACH, OVER 4" BASE AGGREGATE DENSE 1¼INCH
ADW	3½" ASPHALT DRIVEWAY
GDW	6" GRAVEL DRIVEWAY
CDW	6" CONCRETE DRIVEWAY
SN	SLOPED NOSE
PAV 1	5½" HMA PAVEMENT TYPE E-3, OVER 6" BASE AGGREGATE DENSE 1¼INCH, OVER 12" BREAKER RUN
PAV 3	CONCRETE ROUNDABOUT TRUCK APRON 8-INCH (COLORING CONCRETE RED), OVER 6" BASE AGGREGATE DENSE 1¼" INCH
CR 1	CURB RAMP TYPE 1
CR 2	CURB RAMP TYPE 2
CR 5	CURB RAMP TYPE 5
CR 7B	CURB RAMP TYPE 7B
CR B	CURB RAMP BIKE
XXXXX	SAWING ASPHALT
YYYYY	SAWING CONCRETE



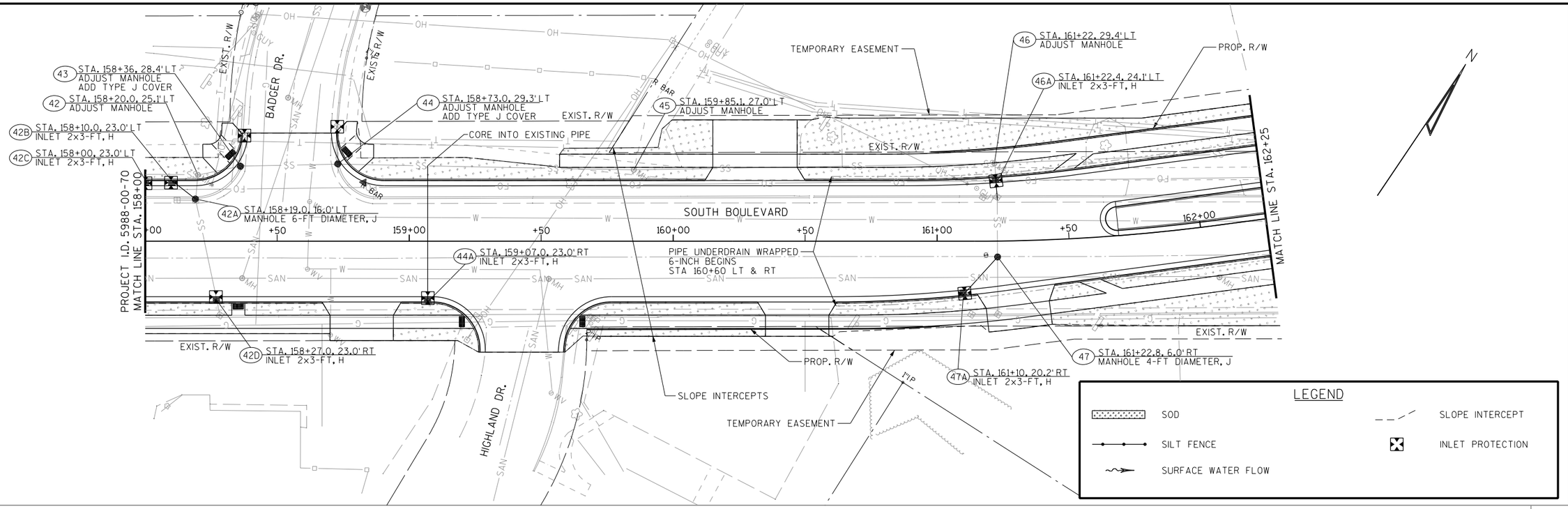
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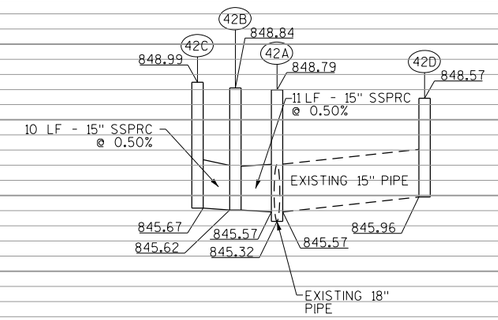
LEGEND

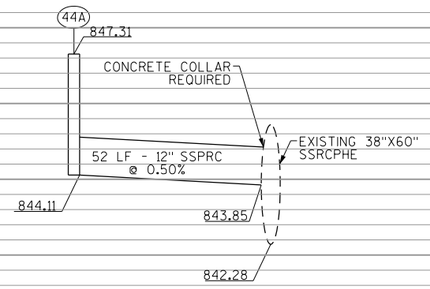
18A	CONCRETE CURB & GUTTER 18-INCH TYPE A
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
36T	CONCRETE CURB & GUTTER 36-INCH TYPE T
SC	STAMPED COLORED CONCRETE SIDEWALK 4-INCH
SW5	CONCRETE SIDEWALK 5-INCH
DRW	6" CONCRETE DRIVEWAY APPROACH, OVER 4" BASE AGGREGATE DENSE 1¼INCH
ADW	3½" ASPHALT DRIVEWAY
GDW	6" GRAVEL DRIVEWAY
CDW	6" CONCRETE DRIVEWAY
SN	SLOPED NOSE
PAV 1	5½" HMA PAVEMENT TYPE E-3, OVER 6" BASE AGGREGATE DENSE 1¼INCH, OVER 12" BREAKER RUN
PAV 3	CONCRETE ROUNDABOUT TRUCK APRON 8-INCH (COLORING CONCRETE RED), OVER 6" BASE AGGREGATE DENSE 1¼" INCH
CR 1	CURB RAMP TYPE 1
CR 2	CURB RAMP TYPE 2
CR 5	CURB RAMP TYPE 5
CR 7B	CURB RAMP TYPE 7B
CR B	CURB RAMP BIKE
XXXXX	SAWING ASPHALT
YYYYY	SAWING CONCRETE

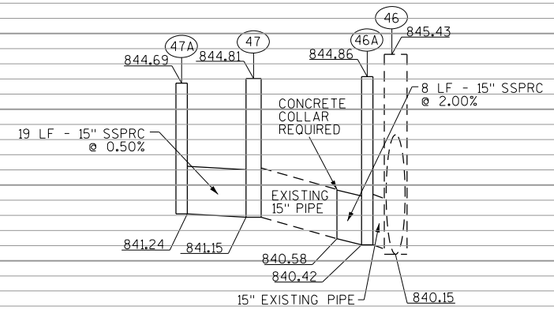


NOTE #1: ADDITIONAL SITE WORK AT THIS LOCATION TO BE COMPLETED BY OTHERS OUTSIDE OF RIGHT-OF-WAY. CONTRACTOR AND PROJECT ENGINEER TO COORDINATE WITH OWNER AND CITY OF BARABOO PRIOR TO COMPLETING WORK IN THIS LOCATION.


43 STA. 158+36. 28.4' LT
ADJUST MANHOLE
ADD TYPE J COVER
42 STA. 158+20.0. 25.1' LT
ADJUST MANHOLE
42B STA. 158+10.0. 23.0' LT
INLET 2x3-FT, H
42C STA. 158+00. 23.0' LT
INLET 2x3-FT, H
42A STA. 158+19.0. 16.0' LT
MANHOLE 6-FT DIAMETER, J
42D STA. 158+27.0. 23.0' RT
INLET 2x3-FT, H
44 STA. 158+73.0. 29.3' LT
ADJUST MANHOLE
ADD TYPE J COVER
44A STA. 159+07.0. 23.0' RT
INLET 2x3-FT, H
45 STA. 159+85.1. 27.0' LT
ADJUST MANHOLE
46 STA. 161+22. 29.4' LT
ADJUST MANHOLE
46A STA. 161+22.4. 24.1' LT
INLET 2x3-FT, H
47 STA. 161+22.8. 6.0' RT
MANHOLE 4-FT DIAMETER, J
47A STA. 161+10. 20.2' RT
INLET 2x3-FT, H
CORE INTO EXISTING PIPE
PIPE UNDERDRAIN WRAPPED
6-INCH BEGINS
STA 160+60 LT & RT
SLOPE INTERCEPTS
TEMPORARY EASEMENT
TEMPORARY EASEMENT
PROP. R/W
PROP. R/W
EXIST. R/W
EXIST. R/W
EXIST. R/W
EXIST. R/W
EXIST. R/W
BADGER DR.
HIGHLAND DR.
SOUTH BOULEVARD
PROJECT I.D. 5988-00-70
MATCH LINE STA. 158+00
MATCH LINE STA. 162+25
158+00
+50
159+00
+50
160+00
+50
161+00
+50
162+00
1"=P
LEGEND
SOD
SILT FENCE
SURFACE WATER FLOW
SLOPE INTERCEPT
INLET PROTECTION


42B
848.84
42C
848.99
42A
848.79
42D
848.57
11 LF - 15" SSPRC
@ 0.50%
10 LF - 15" SSPRC
@ 0.50%
EXISTING 15" PIPE
845.67
845.62
845.57
845.32
845.57
845.96
EXISTING 18"
PIPE


44A
847.31
CONCRETE COLLAR
REQUIRED
EXISTING 38"X60"
SSRCPHE
52 LF - 12" SSPRC
@ 0.50%
844.11
843.85
842.28


46
845.43
47A
844.69
47
844.81
46A
844.86
8 LF - 15" SSPRC
@ 2.00%
CONCRETE
COLLAR
REQUIRED
19 LF - 15" SSPRC
@ 0.50%
EXISTING
15" PIPE
841.24
841.15
840.58
840.42
15" EXISTING PIPE
840.15

2

48A STA. 162+50, 28.5' LT
INLET 2x3-FT, HS

CORE INTO EXISTING BOX
STA. 162+50

48B STA. 162+55, 29.4' LT
INLET 2x3-FT, H

48C STA. 162+50, 12.0' LT
INLET 2x3-FT, H

49 STA. 163+05.6, 25.6' LT
ADJUST MANHOLE

TEMPORARY EASEMENT

PROP. R/W

PIPE UNDERDRAIN
WRAPPED 6-INCH
ENDS STA 163+25 LT

MATCH LINE STA. 162+25

51 STA. 163+67.0, 38.5' LT
ADJUST MANHOLE

51A STA. 163+68.2, 18.0' LT
RECONSTRUCT MANHOLE
ADD TYPE J COVER

52 STA. 165+15.3, 4.0' LT
MANHOLE 6-FT DIAMETER, J

52C STA. 165+50, 21.1' LT
INLET 2x3-FT, HS

48F STA. 162+36, 14.3' RT
INLET 2x3-FT, H

48E STA. 162+46, 15.8' RT
INLET 2x3-FT, HS

48D STA. 162+50, 2.0' LT
INLET 2x3-FT, H

49A STA. 163+18, 29.6' RT
INLET 2x2.5-FT, T

49B STA. 162+99, 45.4' RT
INLET 2x3-FT, HS

TEMPORARY EASEMENT

PROP. R/W

ASPHALT

BUILDING

CORE INTO
EXISTING PIPE

PIPE UNDERDRAIN
WRAPPED 6-INCH

CONC. WALK

SOUTH BOULEVARD

EXIST. R/W

MATCH LINE STA. 166+50

50B STA. 163+51.9, 71.2' RT
INLET 2x3-FT, H

50C STA. 163+37.2, 64.6' RT
INLET 2x3-FT, H

SOUTH PARKWAY (STH 123)

PIPE UNDERDRAIN
WRAPPED 6-INCH
ENDS STA 163+25 RT

50A STA. 163+73.8, 75.9' RT
INLET 2x3-FT, H

54 STA. 163+77.2, 46.1' RT
ADJUST MANHOLE

50 STA. 163+81.4, 71.4' RT
ADJUST MANHOLE
ADD TYPE J COVER

EXIST. R/W

PROP. R/W

52A STA. 164+60, 2.0' LT
INLET 2x3-FT, H

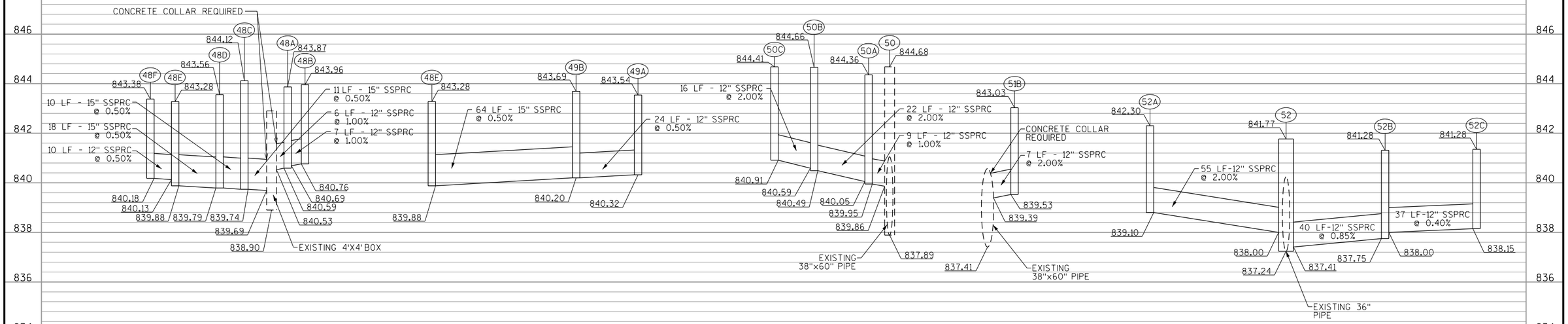
51B STA. 163+80.9, 18.1' RT
INLET 2x2.5-FT, T

53 STA. 165+10.8, 23.2' RT
ADJUST MANHOLE

52B STA. 165+50, 15.6' RT
INLET 2x3-FT, HS

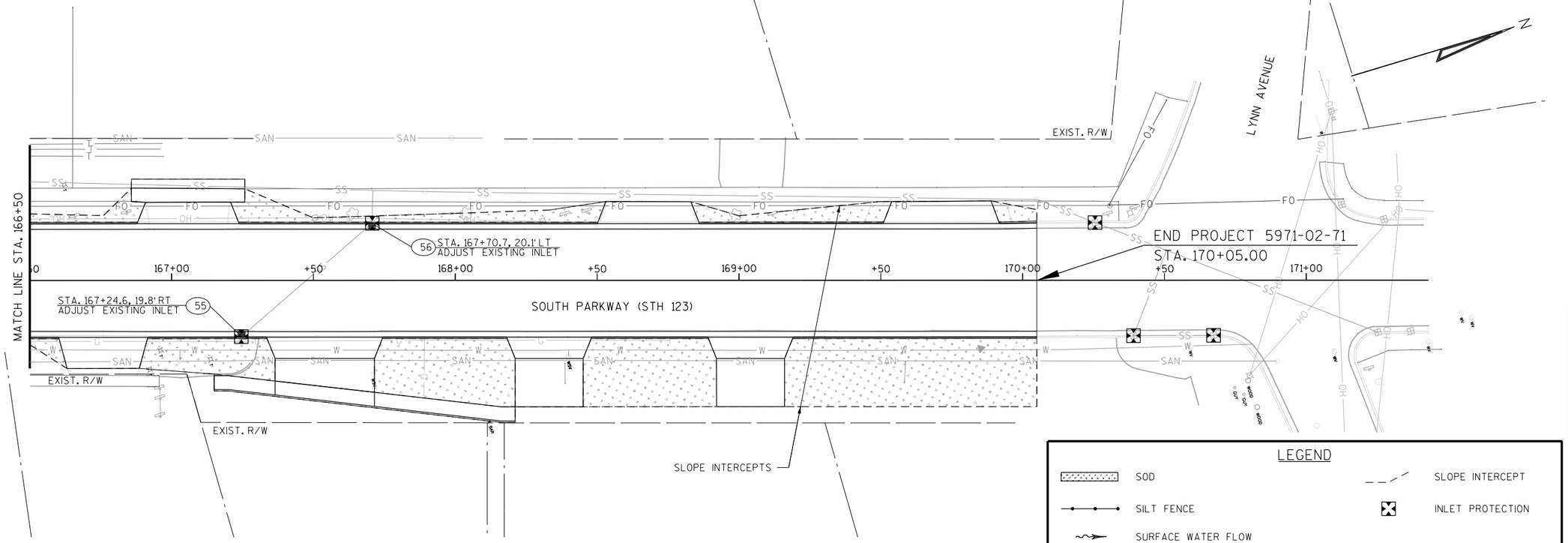
LEGEND

- SOD
- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- INLET PROTECTION



PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STORM SEWER/EROSION CONTROL	SHEET 17	E

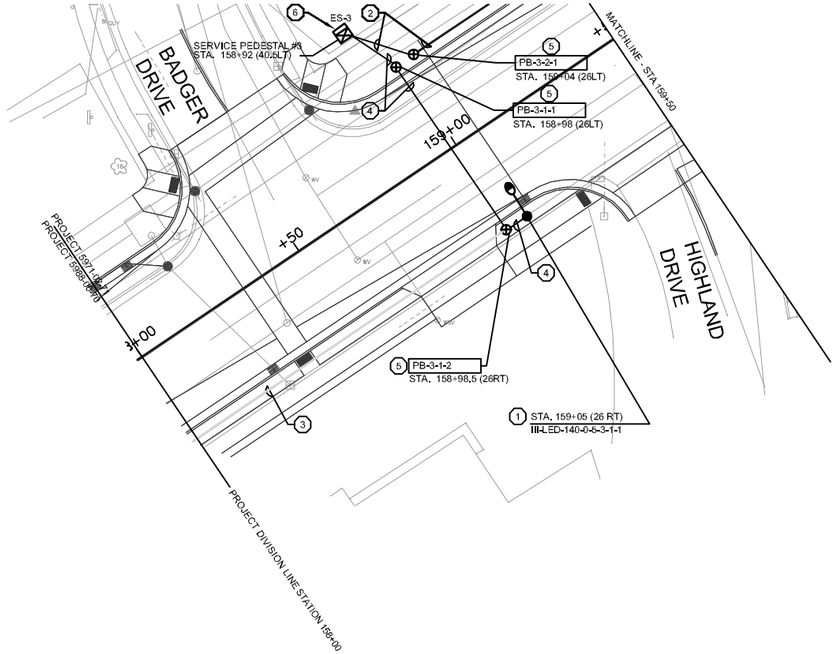
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PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STORM SEWER/EROSION CONTROL	SHEET 18	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\022513_ss.dgn PLOT DATE : 3/4/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0139 ft / in.

WISDOT/CADDS SHEET 42

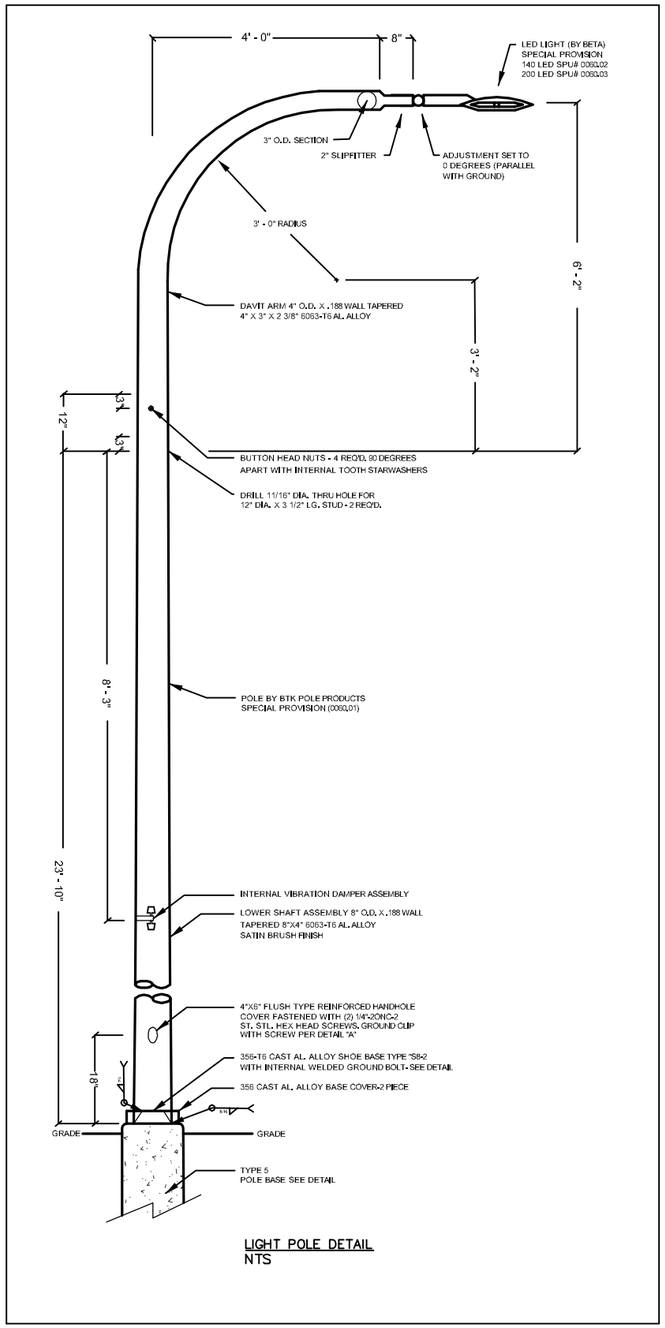


GENERAL NOTES:

1. FOR ALL POLES PROVIDE A MINIMUM OF 24" BETWEEN THE FRONT OF THE POLE BASE AND THE FACE OF THE CURB.
2. SEE LIGHT POLE DETAIL FOR POLE INSTALLATION.

PLAN NOTES: (X)

1. POLE AND BASE PART OF PROJECT 5971-02-71.
2. WIRE AND CONDUIT PART OF PROJECT 5971-02-71.
3. CONDUITS AND WIRE PART OF PROJECT 5988-00-70.
4. WIRE PART OF PROJECT 5988-00-70 CONDUIT PART OF PROJECT 5971-02-71.
5. PULL BOX AND BOND CONDUCTOR PART OF PROJECT 5971-02-71.
6. POWER PEDESTAL PART OF PROJECT 5971-02-71.



LIGHT POLE DETAIL
NTS



LEGEND

- (X) PLAN NOTE
- SERVICE POLE
- CONTROL CABINET 100 AMP 120/240 VOLT ELECTRIC SERVICE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LUMINAIRE
- PULL BOX, 24" X 42"
- NTS NOT TO SCALE
- PB-X-X-X ITEM DESIGNATOR, REFER TO ONE-LINE DIAGRAM
  PB = PULL BOX
  - INDICATES PULLBOX #
  - INDICATES CIRCUIT #
  - INDICATES POWER PEDESTAL SERVICE #

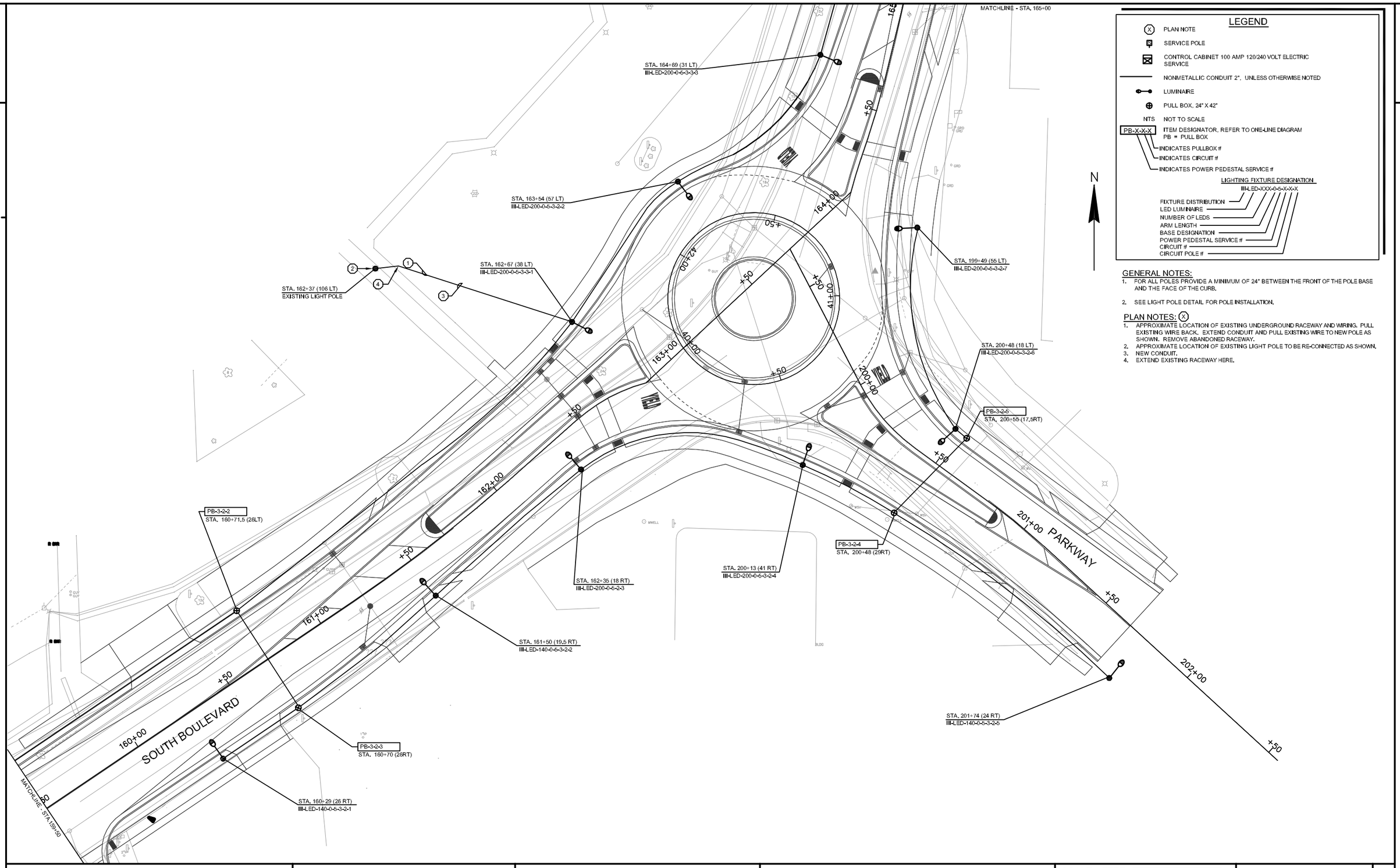
LIGHTING FIXTURE DESIGNATION
III-LED-XXX-0-5-X-X-X

- FIXTURE DISTRIBUTION
- LED LUMINAIRE
- NUMBER OF LEDS
- ARM LENGTH
- BASE DESIGNATION
- POWER PEDESTAL SERVICE #
- CIRCUIT #
- CIRCUIT POLE #

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	LIGHTING PLAN	SCALE, FEET 0' 10' 20' 40'	SHEET: 19

FILE NAME : City of Baraboo South Boulevard Lighting | PLOT DATE : 3/22/2011 | PLOT BY : KyleE | PLOT NAME : | PLOT SCALE :

WISDOT/CADDS SHEET 42



GENERAL NOTES:

1. FOR ALL POLES PROVIDE A MINIMUM OF 24" BETWEEN THE FRONT OF THE POLE BASE AND THE FACE OF THE CURB.
2. SEE LIGHT POLE DETAIL FOR POLE INSTALLATION.

PLAN NOTES: (X)

1. APPROXIMATE LOCATION OF EXISTING UNDERGROUND RACEWAY AND WIRING. PULL EXISTING WIRE BACK. EXTEND CONDUIT AND PULL EXISTING WIRE TO NEW POLE AS SHOWN. REMOVE ABANDONED RACEWAY.
2. APPROXIMATE LOCATION OF EXISTING LIGHT POLE TO BE RE-CONNECTED AS SHOWN.
3. NEW CONDUIT.
4. EXTEND EXISTING RACEWAY HERE.

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	LIGHTING PLAN	SCALE, FEET 0' 10' 20' 40'	SHEET: 20

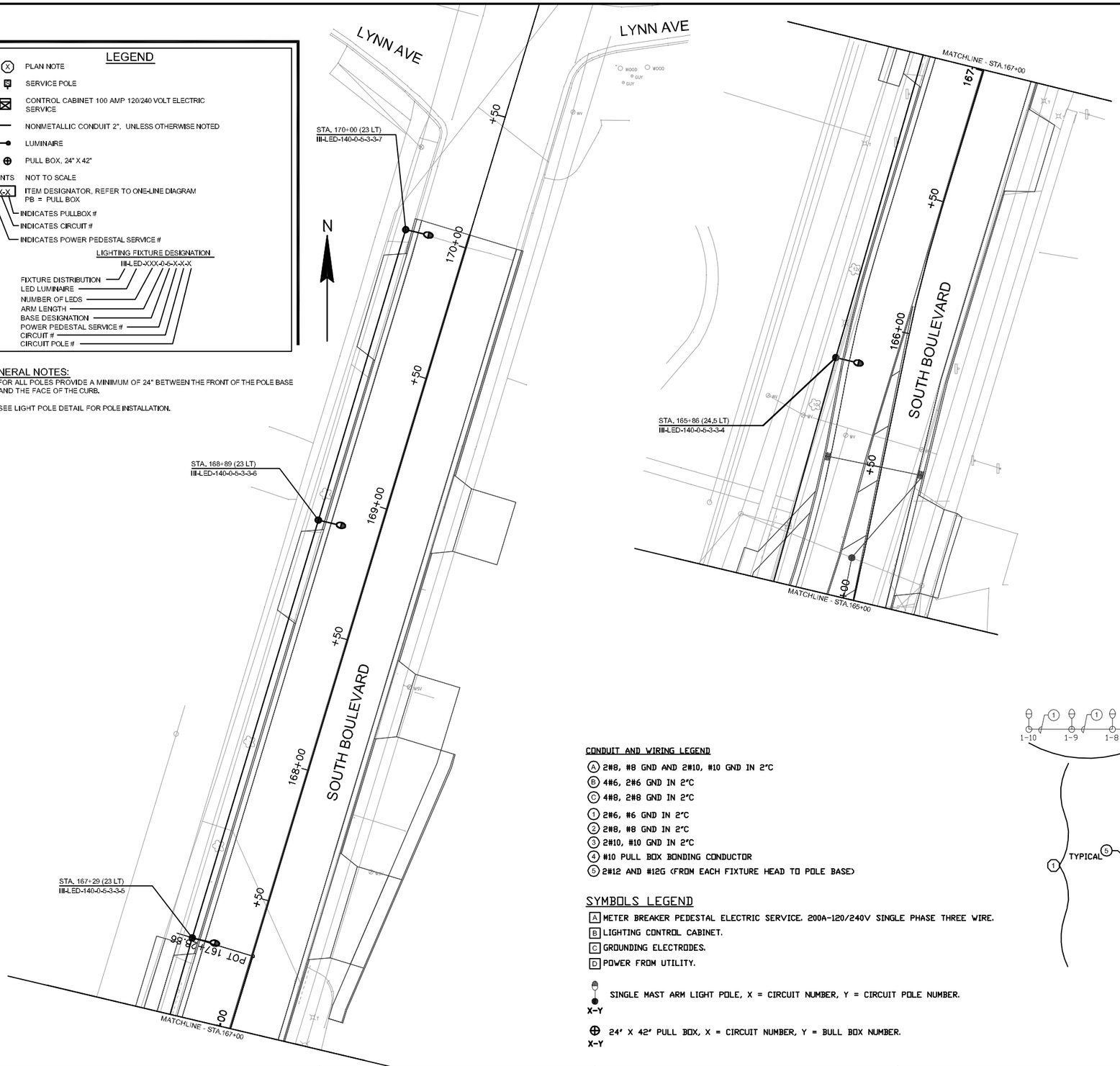
LEGEND

- PLAN NOTE
- SERVICE POLE
- CONTROL CABINET 100 AMP 120/240 VOLT ELECTRIC SERVICE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LUMINAIRE
- PULL BOX, 24" X 42"
- NTS — NOT TO SCALE
- PB-X-X-X — ITEM DESIGNATOR, REFER TO ONE-LINE DIAGRAM
  PB = PULL BOX
  - INDICATES PULLBOX #
  - INDICATES CIRCUIT #
  - INDICATES POWER PEDESTAL SERVICE #

LIGHTING FIXTURE DESIGNATION
III-LED-XXX-0-6-X-X-X
- FIXTURE DISTRIBUTION
- LED LUMINAIRE
- NUMBER OF LEDS
- ARM LENGTH
- BASE DESIGNATION
- POWER PEDESTAL SERVICE #
- CIRCUIT #
- CIRCUIT POLE #

GENERAL NOTES:

1. FOR ALL POLES PROVIDE A MINIMUM OF 24" BETWEEN THE FRONT OF THE POLE BASE AND THE FACE OF THE CURB.
2. SEE LIGHT POLE DETAIL FOR POLE INSTALLATION.



CONDUIT AND WIRING LEGEND

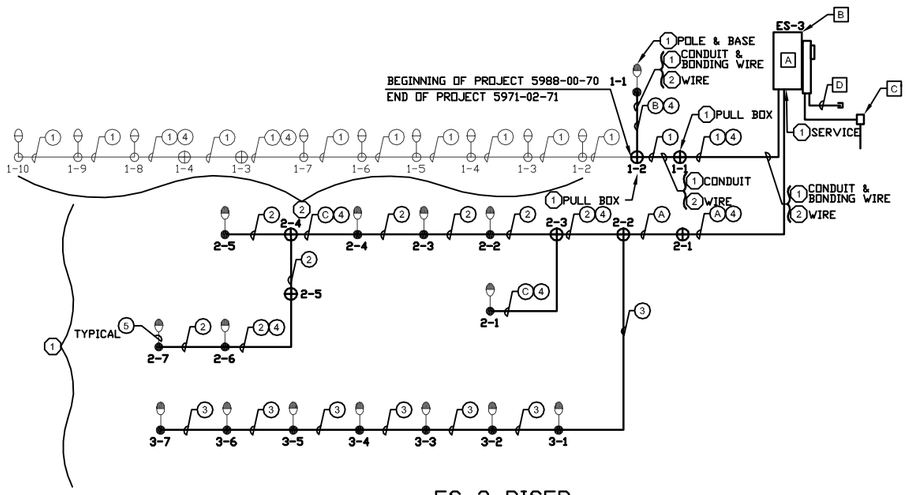
- (A) 2#8, #8 GND AND 2#10, #10 GND IN 2"C
- (B) 4#6, 2#6 GND IN 2"C
- (C) 4#8, 2#8 GND IN 2"C
- (1) 2#6, #6 GND IN 2"C
- (2) 2#8, #8 GND IN 2"C
- (3) 2#10, #10 GND IN 2"C
- (4) #10 PULL BOX BONDING CONDUCTOR
- (5) 2#12 AND #12G (FROM EACH FIXTURE HEAD TO POLE BASE)

SYMBOLS LEGEND

- [A] METER BREAKER PEDESTAL ELECTRIC SERVICE. 200A-120/240V SINGLE PHASE THREE WIRE.
- [B] LIGHTING CONTROL CABINET.
- [C] GROUNDING ELECTRODES.
- [D] POWER FROM UTILITY.

X-Y — SINGLE MAST ARM LIGHT POLE, X = CIRCUIT NUMBER, Y = CIRCUIT POLE NUMBER.

X-Y — 24" X 42" PULL BOX, X = CIRCUIT NUMBER, Y = BULL BOX NUMBER.



ES-3 RISER

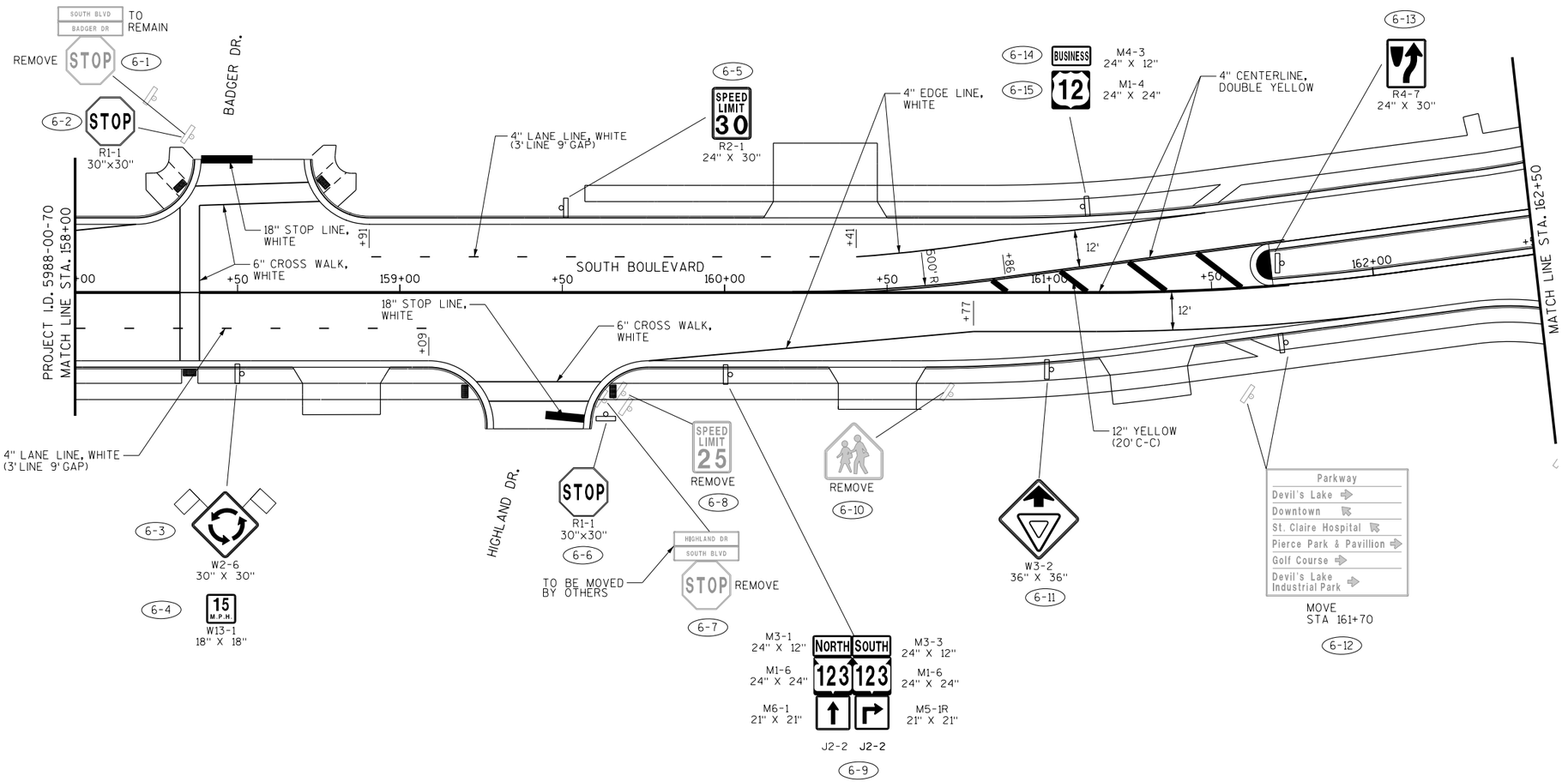
ONE LINE NOTES

1. WORK PART OF PROJECT 5971-02-71.
2. WORK PART OF PROJECT 5988-00-70.

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	LIGHTING PLAN	SCALE, FEET 0' 10' 20' 40'	SHEET:

FILE NAME : City of Baraboo South Boulevard Lighting | PLOT DATE : 3/22/2011 | PLOT BY : KyleE | PLOT NAME : | PLOT SCALE : | WISDOT/CADDS SHEET 42

2



PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PAVEMENT MARKING & SIGNING	SHEET 22	E

2

N

12 Business
SEE SIGN DETAIL
7-7

7-3 W11-2 30" X 30"
7-4 W16-7L 24" X 12"
7-1 W11-2 30" X 30"
7-2 W16-7L 24" X 12"
MATCH LINE STA. 162+50

REMOVE H HOSPITAL
REMOVE SPEED LIMIT 25 (7-17)
7-19 CIRCUS WORLD MUSEUM / NORTH 123
REMOVE (7-18)

7-5 R1-2 36" X 31"
7-6 ONE WAY R6-2R 24" X 30"
GROOVED PREFORMED THERMOPLASTIC CROSSWALK 6-INCH, WHITE (TYP.)

GROOVED PREFORMED THERMOPLASTIC 18-INCH YIELD LINE, WHITE 2'LINE - 2'SKIP (TYP.)

7-8 R1-2 36" X 31"
7-9 R1-54 TO TRAFFIC FROM LEFT 24" X 15"
7-10 7-12 7-14 R6-1R ONE WAY 36" X 12"
7-11 7-13 7-15 R6-4B 60" X 24"
7-16 SOUTH 123 REMOVE

7-20 R1-2 36" X 31"
7-21 R1-54 TO TRAFFIC FROM LEFT 24" X 15"
7-22 W11-2 30" X 30"
7-23 W16-7L 24" X 12"

Parkway
Madalon & Duppe/Mandt Industrial Parks
Pierce Park & Pavillion
Devil's Lake
Golf Course
Devil's Lake Industrial Park
MOVE STA 165+10 (7-30)

7-35 W3-2 36" X 36"

7-44 W11-2 30" X 30"
7-45 W16-7L 24" X 12"

GROOVED PREFORMED THERMOPLASTIC CROSSWALK 6-INCH, WHITE (TYP.)

GROOVED PREFORMED THERMOPLASTIC CROSSWALK 6-INCH, WHITE (TYP.)

12" YELLOW (20'C-C) (TYP.)

SOUTH BOULEVARD (STH 123)

MATCH LINE STA. 166+50

123 SOUTH
SEE SIGN DETAIL
7-46

7-47 R1-2 36" X 31"
7-49 R4-7 24" X 30"
7-48 ONE WAY R6-2R 24" X 30"

7-61 R1-2 36" X 31"
7-62 R1-54 TO TRAFFIC FROM LEFT 24" X 15"
TO BE MOVED BY OTHERS
PARKWAY SOUTH BLVD STOP
REMOVE (7-63)
CIRCUS WORLD
REMOVE (7-65)
7-59 W11-2 30" X 30"
7-60 WF16-7L 24" X 12"

7-25 W11-2 30" X 30"
7-26 W16-7L 24" X 12"
7-27 R1-2 36" X 31"
7-28 R6-2R ONE WAY 24" X 30"
7-29 R4-7 24" X 30"
SPEED LIMIT 25 REMOVE (7-31)

4" CENTERLINE, DOUBLE YELLOW

M3-3 24" X 12" SOUTH 123
M1-6 24" X 24"
J4-1 (7-55)
4" CENTERLINE, DOUBLE YELLOW

PARKWAY (STH 123)

NORTH 123 SOUTH 123
REMOVE (7-64)

123 NORTH
SEE SIGN DETAIL
7-24

BUSINESS 12 NORTH 123
REMOVE (7-34)

M4-3 24" X 12"
M1-4 24" X 24"
BUSINESS 12 J4-1 (7-36)
NORTH 123 J4-1 (7-37)
M3-1 24" X 12"
M1-6 24" X 24"
SPEED LIMIT 25 R2-1 24" X 30" (7-38)

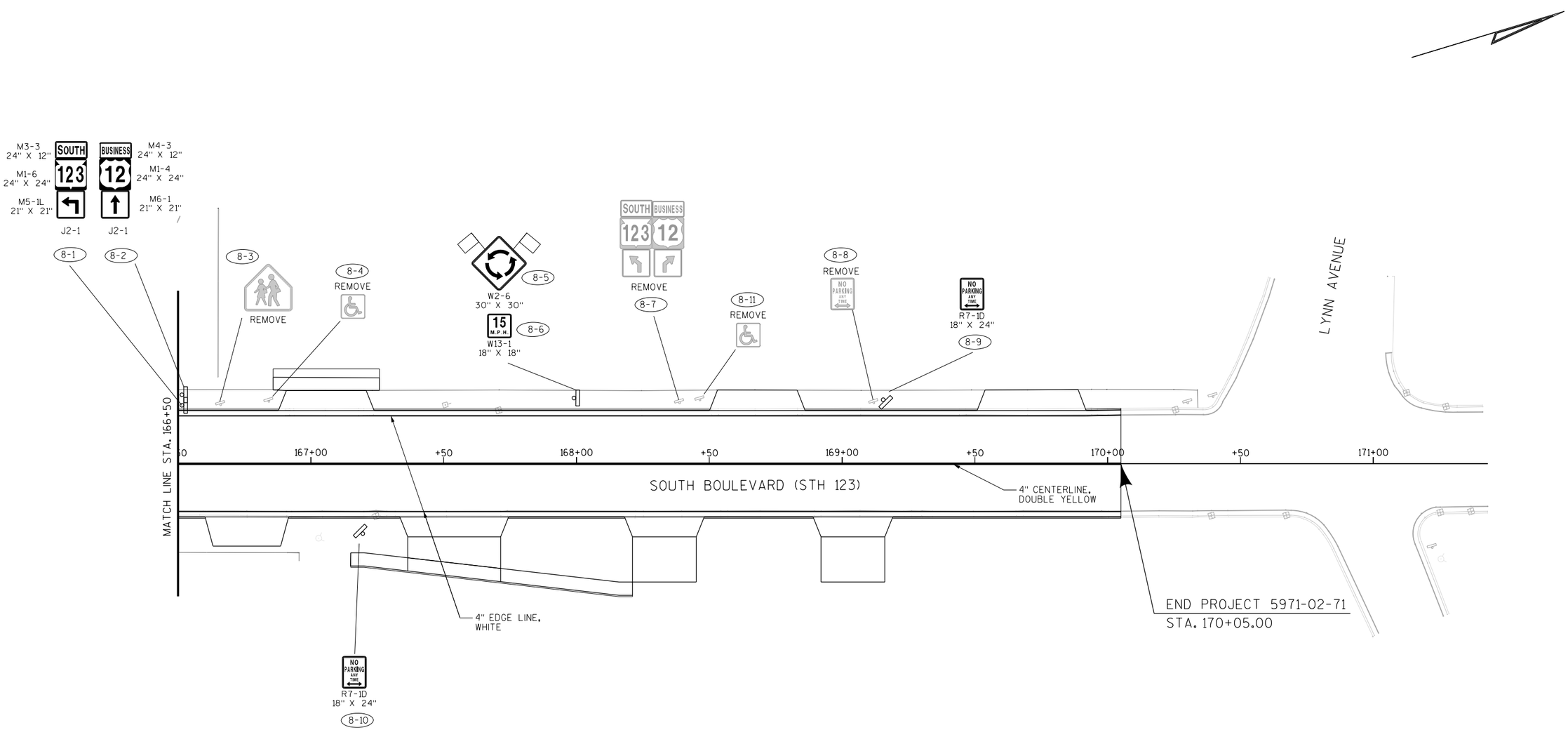
STA 204+00
7-50 W2-6 30" X 30"
SOUTH 123 REMOVE (7-56)
7-32 D9-2 24" X 24"
7-33 MB5-1R 21" X 21"
15 M.P.H. W13-1 18" X 18" (7-52)

7-57 W3-2 36" X 36"
NORTH 123 REMOVE (7-53)
STA 203+00
NORTH 123 J2-1
M3-1 24" X 12"
M1-6 24" X 24"
M5-1R 21" X 21" (7-54)

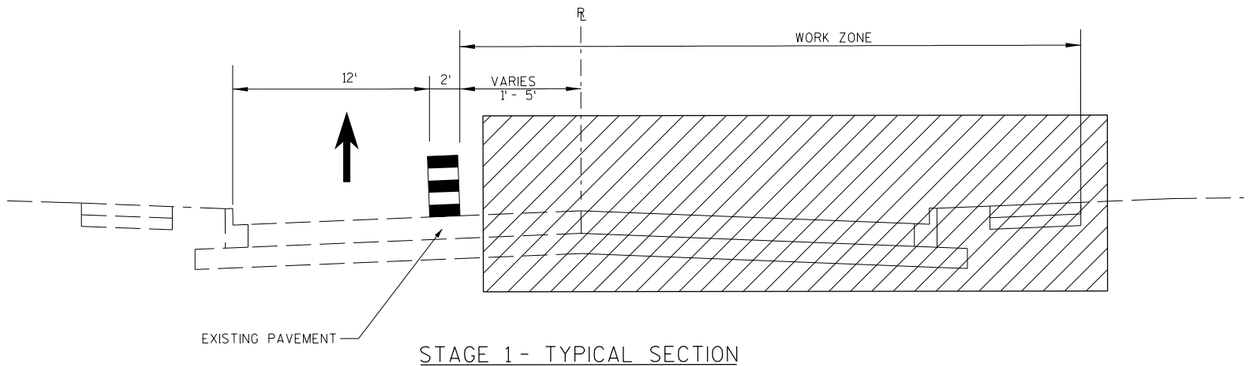
South Boulevard
Downtown
St. Claire Hospital
Courthouse/Sheriff
Fairgrounds
High School
CALL SAUK CO. CRIME STOPPERS AT 1-888-TIP-SAUK
MOVE STA 200+90 (7-58)

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PAVEMENT MARKING & SIGNING	SHEET 23	E

2

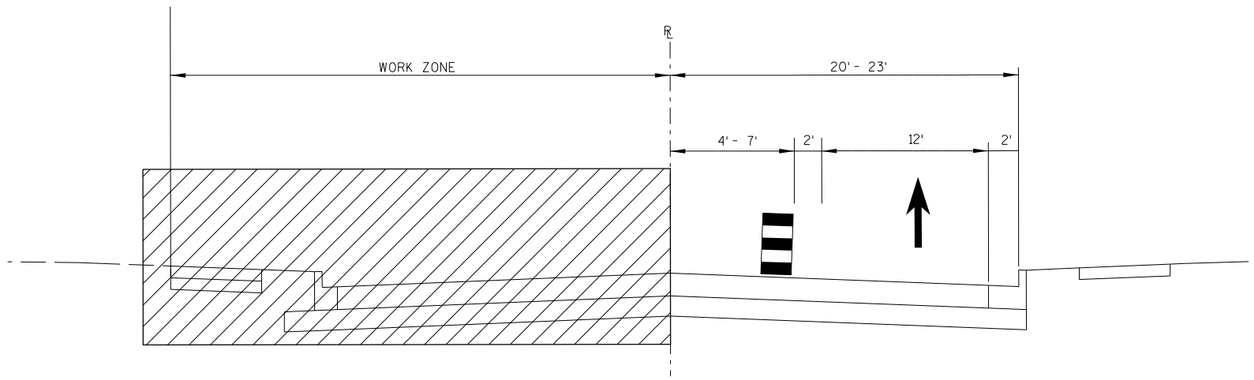


PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PAVEMENT MARKING & SIGNING	SHEET 24	E



STAGE 1 - TYPICAL SECTION

STA 158+00 TO 170+05



STAGE 2 - TYPICAL SECTION

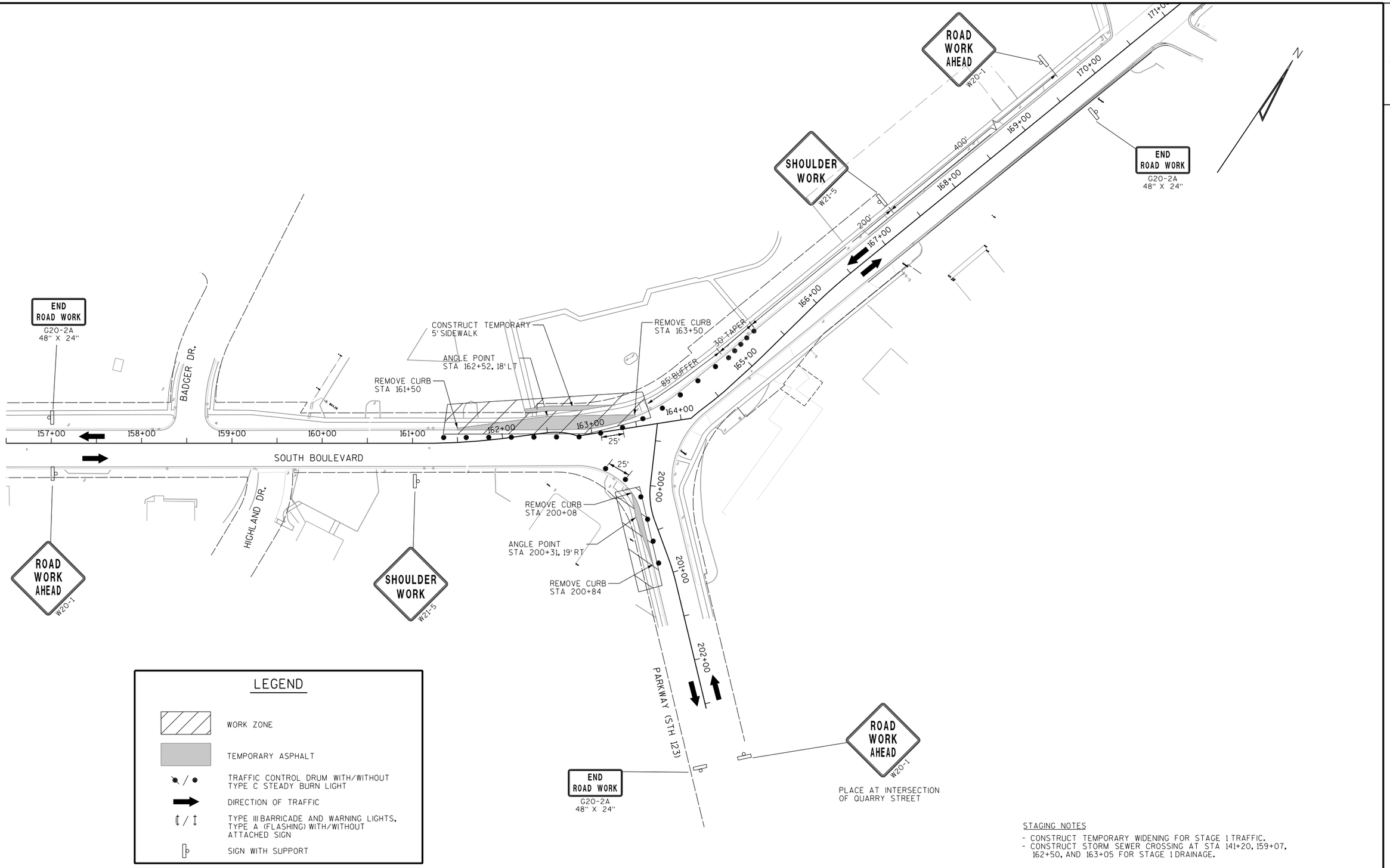
STA 158+00 TO 170+05

NOTES

1. MAINTAIN 11-FOOT MINIMUIM LANES IN EACH DIRECTION BETWEEN USH 12 AND INDUSTRIAL COURT AND ONE 11-FOOT MINIMUM EASTBOUND LANE FROM INDUSTRIAL COURT TO PARKWAY AT ALL TIMES.
2. TRAFFIC CONTROL DRUMS ARE SPACED AT 50'O.C. UNLESS OTHERWISE SPECIFIED.
3. THE CONTRACTOR SHALL COVER ANY SIGN CONFLICTING WITH THE TRAFFIC CONTROL IN OPERATION AS NEEDED OR AS DIRECTED BY THE ENGINEER, ACCORDING TO BID ITEM 643.0920.
4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY BARRICADES, SIGNS, DIRECTIONAL ARROWS, LIGHTS, TEMPORARY MARKINGS, FLAGMEN, AND SAFETY DEVICES AS CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTOR'S METHOD OR SEQUENCES OF OPERATION.
6. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
7. ALL SIGNS ARE 48" X 48" EXCEPT OTHERWISE NOTED.
8. ANY "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.
9. THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD LOCATIONS AS APPROVED BY THE ENGINEER IN THE FIELD.
10. BOTH STEADY BURN LIGHTS AND FLASHING LIGHTS SHALL BE ONE WAY WITH THE LIGHT SOURCE SHOWING TOWARDS ADJACENT APPROACHING TRAFFIC.
11. CHANNELIZING DEVICES SHALL BE DRUMS WITH ATTACHED TYPE "C" STEADY BURN LIGHT (TAPERS ONLY).

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STAGE CONSTRUCTION - TYPICAL SECTIONS	SHEET 25	E

2



LEGEND

- WORK ZONE
- TEMPORARY ASPHALT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C STEADY BURN LIGHT
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT ATTACHED SIGN
- SIGN WITH SUPPORT

STAGING NOTES

- CONSTRUCT TEMPORARY WIDENING FOR STAGE 1 TRAFFIC.
- CONSTRUCT STORM SEWER CROSSING AT STA 141+20, 159+07, 162+50, AND 163+05 FOR STAGE 1 DRAINAGE.

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STAGE CONSTRUCTION - PRE STAGE 1	SHEET 26	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\026003_s1p.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 100.0000 ft / in.

2

DETOUR BEGINS
XXX XX TO XXX XX

PLACE PORTABLE CHANGEABLE MESSAGE SIGN AT LYNN AVENUE INTERSECTION 2 WEEKS PRIOR TO CLOSURE AND DURING STAGES 1 AND 2

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH YELLOW

TEMPORARY PAVEMENT MARKING 4-INCH WHITE

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH WHITE

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH WHITE TO STA 201+65

END PROJECT 5971-02-71
STA. 170+05.00

LYNN AVE.

BADGER DR.

HIGHLAND DR.

SOUTH BOULEVARD

PARKWAY (STH 123)

PROJECT I.D. 5988-00-70
MATCH LINE STA. 158+00

70' SHIFT TAPER

70' TAPER

55' BUFFER

50'

200'

200'

PLACE AT INTERSECTION OF QUARRY STREET

ROAD WORK AHEAD
W20-1

ROAD CLOSED
R11-2
48" X 30"

R3-1
24" X 24"

ONE WAY
R6-2R
24" X 30"

LANE CLOSED
R11-2L
48" X 30"

W24-1L

R3-2
24" X 24"

ONE WAY
R6-2L
24" X 30"

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

W01-3R

15 M.P.H.
W013-1
24" X 24"

STOP
R1-1
36" X 36"

W01-4L

ABSOLUTELY CLOSED AND OTHER SIGNS
R9-10
24" X 12"

STAGING NOTES

- CONSTRUCT EASTBOUND LANES.
- CONSTRCT NORTHEAST QUADRANT OF ROUNDABOUT.
- MAINTAIN ACCESS TO HIGHLAND DRIVE AT ALL TIMES.

*SEE DETOUR ROUTE FOR ADDITIONAL INFORMATION.

LEGEND

- WORK ZONE
- TEMPORARY ASPHALT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C STEADY BURN LIGHT
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT ATTACHED SIGN
- SIGN WITH SUPPORT

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STAGE CONSTRUCTION - STAGE 1A	SHEET 27	E

2

DETOUR BEGINS
XXX XX TO XXX XX

PLACE PORTABLE CHANGEABLE MESSAGE SIGN AT LYNN AVENUE INTERSECTION 2 WEEKS PRIOR TO CLOSURE AND DURING STAGES 1 AND 2

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH YELLOW

TEMPORARY PAVEMENT MARKING 4-INCH WHITE

END PROJECT 5971-02-71
STA. 170+05.00

ROAD WORK AHEAD W20-1

ROAD CLOSED R11-2 48" X 30"

R3-1 24" X 24"

ONE WAY R6-2R 24" X 30"

LANE CLOSED R11-2L 48" X 30"

W24-1L

ONE WAY R6-2R 24" X 30"

LYNN AVE.

ROAD CLOSED R11-2 48" X 30"

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

R3-2 24" X 24"

70' SHIFT TAPER

W01-3R

15 M.P.H. W013-1 24" X 24"

BADGER DR.

PROJECT I.D. 5988-00-70
MATCH LINE STA. 156+50

159+00 160+00 161+00 162+00 163+00 164+00 165+00 166+00 167+00 168+00 169+00 170+00

11'

SOUTH BOULEVARD

HIGHLAND DR.

50'

ONE WAY R6-2L 24" X 30"

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

ROAD WORK AHEAD W20-1

STOP R1-1 36" X 36"

200+00 201+00 202+00

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH WHITE

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH WHITE

LANE CLOSED R11-2L 48" X 30"

PARKWAY (STH 123)

PLACE AT INTERSECTION OF QUARRY STREET
SIDEWALK CLOSED USE OTHER SIDE
R9-10 24" X 12"

ROAD WORK AHEAD W20-1

PLACE AT INTERSECTION OF QUARRY STREET

STAGING NOTES

- CONSTRUCT EASTBOUND LANES.
- CONSTRCT SOUTHEAST QUADRANT OF ROUNDABOUT.
- MAINTAIN ACCESS TO HIGHLAND DRIVE AT ALL TIMES.

*SEE DETOUR ROUTE FOR ADDITIONAL INFORMATION.

LEGEND

- WORK ZONE
- TEMPORARY ASPHALT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C STEADY BURN LIGHT
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT ATTACHED SIGN
- SIGN WITH SUPPORT

2

DETOUR BEGINS
XXX XX TO XXX XX

PLACE PORTABLE CHANGEABLE MESSAGE SIGN AT LYNN AVENUE INTERSECTION 2 WEEKS PRIOR TO CLOSURE AND DURING STAGES 1 AND 2

END PROJECT 5971-02-71
STA. 170+05.00

R3-1
24" X 24"

SIDEWALK CLOSED USE OTHER SIDE
R9-10
24" X 12"

ROAD CLOSED
R11-2
48" X 30"

LYNN AVE.

R3-2
24" X 24"

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

ROAD WORK AHEAD
W20-1

LANE CLOSED
R11-2L
48" X 30"

BADGER DR.

PROJECT I.D. 5988-00-70
MATCH LINE STA. 158+00

SOUTH BOULEVARD

HIGHLAND DR.

ONE WAY
R6-2L
24" X 30"

ONE WAY
R6-2R
24" X 30"

50'

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 8-INCH WHITE

STOP
R1-1
36" X 36"

PARKWAY (STH 123)

158+00 159+00 160+00 161+00 162+00 163+00 164+00 165+00 166+00 167+00 168+00 169+00 170+00 171+00 200 201+00 202+00

14' 11'

N

STAGING NOTES

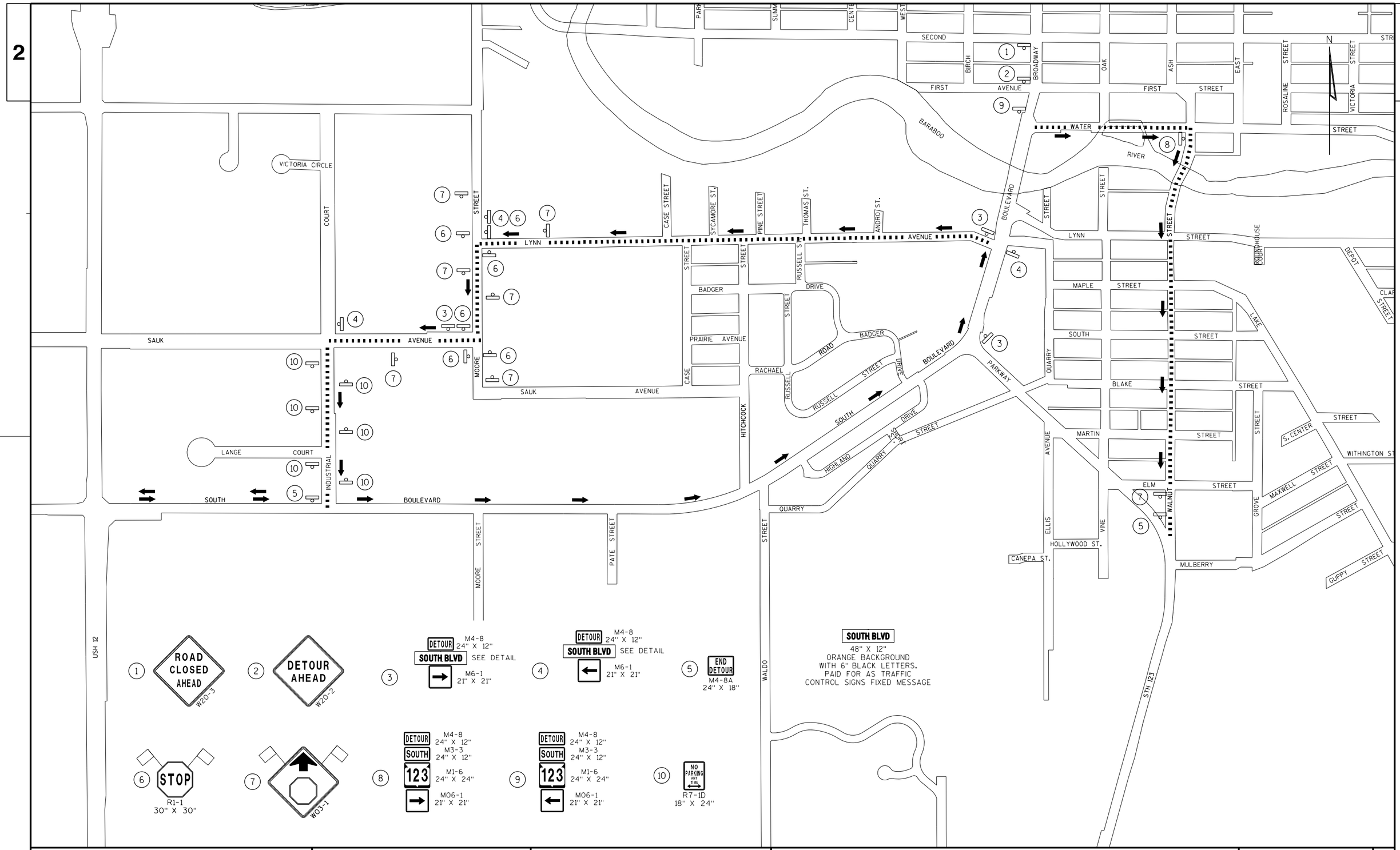
- CONSTRUCT WESTBOUND LANES.
- CONSTRUCT WEST HALF OF ROUNDABOUT.
- MAINTAIN ACCESS TO BADGER DRIVE AT ALL TIMES.

*SEE DETOUR ROUTE FOR ADDITIONAL INFORMATION.

LEGEND

- WORK ZONE
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C STEADY BURN LIGHT
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT ATTACHED SIGN
- SIGN WITH SUPPORT

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STAGE CONSTRUCTION - STAGE 2	SHEET 29	E



PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUKS	DETOUR ROUTE	SHEET 30 E

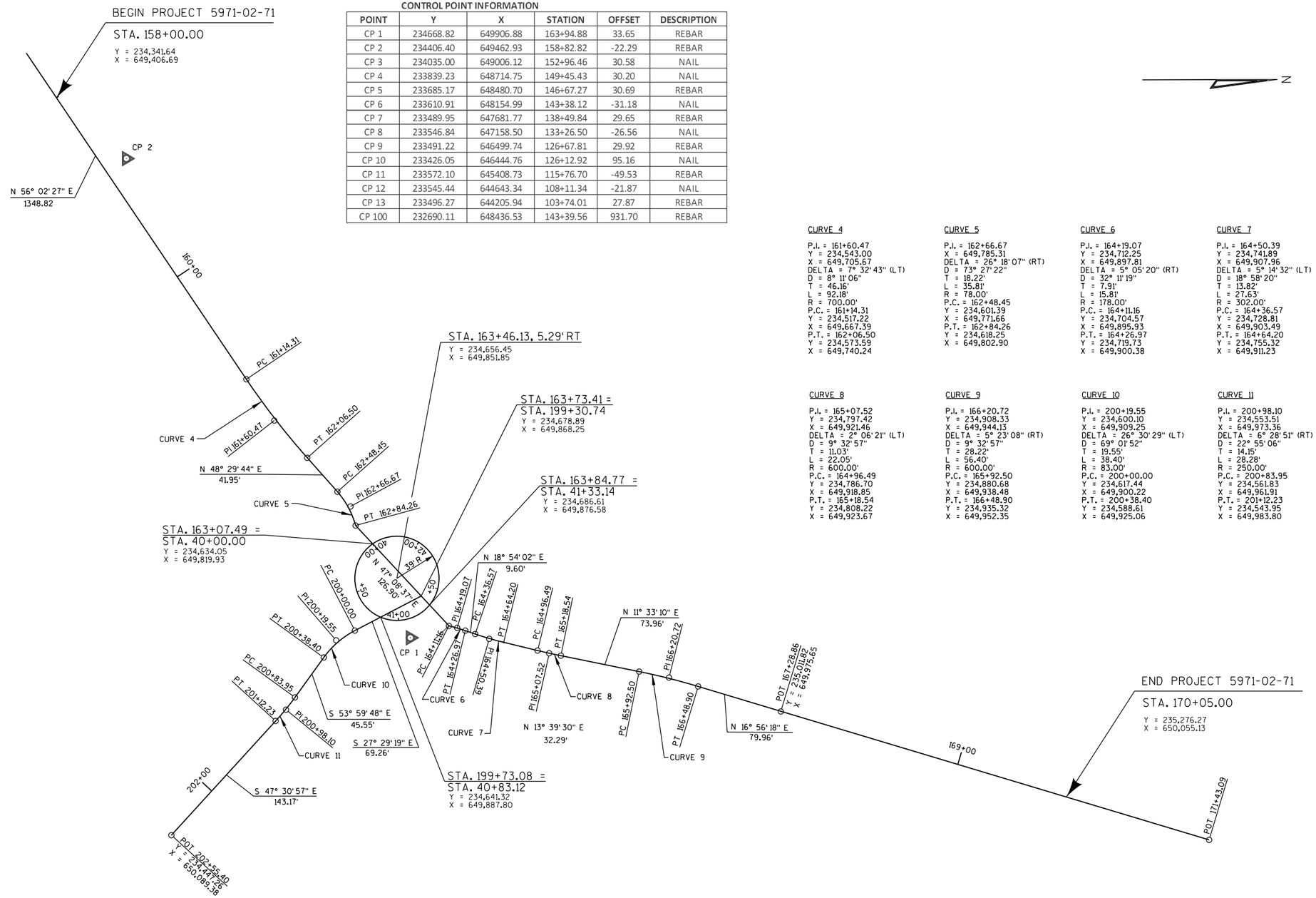
FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\027001_dt.dgn PLOT DATE : 3/6/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 600.0000 ' / in.

WISDOT/CADDS SHEET 42

2

CONTROL POINT INFORMATION

POINT	Y	X	STATION	OFFSET	DESCRIPTION
CP 1	234668.82	649906.88	163+94.88	33.65	REBAR
CP 2	234406.40	649462.93	158+82.82	-22.29	REBAR
CP 3	234035.00	649006.12	152+96.46	30.58	NAIL
CP 4	233839.23	648714.75	149+45.43	30.20	NAIL
CP 5	233685.17	648480.70	146+67.27	30.69	REBAR
CP 6	233610.91	648154.99	143+38.12	-31.18	NAIL
CP 7	233489.95	647681.77	138+49.84	29.65	REBAR
CP 8	233546.84	647158.50	133+26.50	-26.56	NAIL
CP 9	233491.22	646499.74	126+67.81	29.92	REBAR
CP 10	233426.05	646444.76	126+12.92	95.16	NAIL
CP 11	233572.10	645408.73	115+76.70	-49.53	REBAR
CP 12	233545.44	644643.34	108+11.34	-21.87	NAIL
CP 13	233496.27	644205.94	103+74.01	27.87	REBAR
CP 100	232690.11	648436.53	143+39.56	931.70	REBAR



CURVE 4

P.I. = 161+60.47
Y = 234,543.00
X = 649,705.67
DELTA = 7° 32' 43" (LT)
D = 8° 11' 06"
T = 46.16'
L = 92.18'
R = 700.00'
P.C. = 161+14.31
Y = 234,517.22
X = 649,667.39
P.T. = 162+06.50
Y = 234,573.59
X = 649,740.24

CURVE 5

P.I. = 162+66.67
X = 649,785.31
DELTA = 26° 18' 07" (RT)
D = 73° 27' 22"
T = 18.22'
L = 35.81'
R = 78.00'
P.C. = 162+48.45
Y = 234,601.39
X = 649,771.66
P.T. = 162+84.26
Y = 234,618.25
X = 649,802.90

CURVE 6

P.I. = 164+19.07
Y = 234,712.25
X = 649,897.81
DELTA = 5° 05' 20" (RT)
D = 32° 11' 19"
T = 7.91'
L = 15.81'
R = 178.00'
P.C. = 164+11.16
Y = 234,704.57
X = 649,895.93
P.T. = 164+26.97
Y = 234,719.73
X = 649,900.38

CURVE 7

P.I. = 164+50.39
Y = 234,741.89
X = 649,907.96
DELTA = 5° 14' 32" (LT)
D = 18° 58' 20"
T = 13.82'
L = 27.63'
R = 302.00'
P.C. = 164+36.57
Y = 234,728.81
X = 649,903.49
P.T. = 164+64.20
Y = 234,755.32
X = 649,911.23

CURVE 8

P.I. = 165+07.52
Y = 234,797.42
X = 649,921.46
DELTA = 2° 06' 21" (LT)
D = 9° 32' 57"
T = 11.03'
L = 22.05'
R = 600.00'
P.C. = 164+96.49
Y = 234,786.70
X = 649,918.85
P.T. = 165+18.54
Y = 234,808.22
X = 649,923.67

CURVE 9

P.I. = 166+20.72
Y = 234,908.33
X = 649,944.13
DELTA = 5° 23' 08" (RT)
D = 9° 32' 57"
T = 28.22'
L = 56.40'
R = 600.00'
P.C. = 165+92.50
Y = 234,880.68
X = 649,938.48
P.T. = 166+48.90
Y = 234,935.32
X = 649,952.35

CURVE 10

P.I. = 200+19.55
Y = 234,600.10
X = 649,909.25
DELTA = 26° 30' 29" (LT)
D = 69° 01' 52"
T = 19.55'
L = 38.40'
R = 83.00'
P.C. = 200+00.00
Y = 234,617.44
X = 649,900.22
P.T. = 200+38.40
Y = 234,588.61
X = 649,925.06

CURVE 11

P.I. = 200+98.10
Y = 234,553.51
X = 649,973.36
DELTA = 6° 28' 51" (RT)
D = 22° 55' 06"
T = 14.15'
L = 28.28'
R = 250.00'
P.C. = 200+83.95
Y = 234,561.83
X = 649,961.91
P.T. = 201+12.23
Y = 234,543.95
X = 649,983.80

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	ALIGNMENT	SHEET 31	E

DATE 07MAR14 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	5971-02-71 QUANTITY
0010	201.0105	CLEARING	STA	2.000	2.000
0020	201.0120	CLEARING	ID	13.000	13.000
0030	201.0205	GRUBBING	STA	2.000	2.000
0040	201.0220	GRUBBING	ID	13.000	13.000
0080	204.0100	REMOVING PAVEMENT	SY	1,300.000	1,300.000
0100	204.0150	REMOVING CURB & GUTTER	LF	2,737.000	2,737.000
0110	204.0155	REMOVING CONCRETE SIDEWALK	SY	608.000	608.000
0140	204.0220	REMOVING INLETS	EACH	11.000	11.000
0150	204.0245	REMOVING STORM SEWER (SIZE) 01. 12-INCH	LF	169.000	169.000
0170	204.0280	SEALING PIPES	EACH	1.000	1.000
0190	205.0100	EXCAVATION COMMON	CY	6,948.000	6,948.000
0200	205.0501.S	EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL	TON	100.000	100.000
0220	213.0100	FINISHING ROADWAY (PROJECT) 01. 5971-02-71	EACH	1.000	1.000
0250	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	3,090.000	3,090.000
0260	310.0110	BASE AGGREGATE OPEN GRADED	TON	48.000	48.000
0270	312.0110	SELECT CRUSHED MATERIAL	TON	4,921.000	4,921.000
0280	405.0100	COLORING CONCRETE RED	CY	75.000	75.000
0290	416.0260	CONCRETE DRIVEWAY HES 6-INCH	SY	466.000	466.000
0300	416.0508	CONCRETE ROUNDABOUT TRUCK APRON 8-INCH	SY	339.000	339.000
0310	416.0610	DRILLED TIE BARS	EACH	82.000	82.000
0320	455.0120	ASPHALTIC MATERIAL PG64-28	TON	65.000	65.000
0330	455.0605	TACK COAT	GAL	153.000	153.000
0340	460.1103	HMA PAVEMENT TYPE E-3	TON	1,181.000	1,181.000
0350	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	760.000	760.000
0360	460.4200.S	HMA PAVEMENT INTERSECTION	TON	829.000	829.000
0370	465.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	TON	46.000	46.000
0380	465.0125	ASPHALTIC SURFACE TEMPORARY	TON	72.000	72.000
0390	520.8000	CONCRETE COLLARS FOR PIPE	EACH	5.000	5.000
0440	601.0405	CONCRETE CURB & GUTTER 18-INCH TYPE A	LF	113.000	113.000
0450	601.0411	CONCRETE CURB & GUTTER 30-INCH TYPE D	LF	3,359.000	3,359.000
0460	601.0582	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T	LF	232.000	232.000
0470	601.0600	CONCRETE CURB PEDESTRIAN	LF	50.000	50.000
0480	602.0410	CONCRETE SIDEWALK 5-INCH	SF	9,059.000	9,059.000
0490	602.0505	CURB RAMP DETECTABLE WARNING FIELD YELLOW	SF	136.000	136.000
0540	608.0415	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH	LF	151.000	151.000
0550	608.0512	STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH	LF	285.000	285.000
0570	611.0420	RECONSTRUCTING MANHOLES	EACH	1.000	1.000
0580	611.0530	MANHOLE COVERS TYPE J	EACH	7.000	7.000
0600	611.0624	INLET COVERS TYPE H	EACH	14.000	14.000
0610	611.0639	INLET COVERS TYPE H-S	EACH	5.000	5.000
0630	611.0652	INLET COVERS TYPE T	EACH	2.000	2.000
0650	611.2004	MANHOLES 4-FT DIAMETER	EACH	1.000	1.000
0670	611.2006	MANHOLES 6-FT DIAMETER	EACH	2.000	2.000
0690	611.3225	INLETS 2X2.5-FT	EACH	2.000	2.000
0700	611.3230	INLETS 2X3-FT	EACH	19.000	19.000
0730	611.8110	ADJUSTING MANHOLE COVERS	EACH	10.000	10.000
0740	611.8115	ADJUSTING INLET COVERS	EACH	2.000	2.000
0750	611.8120.S	COVER PLATES TEMPORARY	EACH	3.000	3.000

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DATE 07MAR14 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	5971-02-71 QUANTITY
0760	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	790.000	790.000
0770	619.1000	MOBILIZATION	EACH	0.250	0.250
0780	620.0300	CONCRETE MEDIAN SLOPED NOSE	SF	73.000	73.000
0790	624.0100	WATER	MGAL	45.000	45.000
0800	625.0100	TOPSOIL	SY	2,513.000	2,513.000
0810	628.1104	EROSION BALES	EACH	30.000	30.000
0820	628.1504	SILT FENCE	LF	250.000	250.000
0830	628.1520	SILT FENCE MAINTENANCE	LF	250.000	250.000
0840	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	3.000	3.000
0850	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	3.000	3.000
0870	628.7015	INLET PROTECTION TYPE C	EACH	28.000	28.000
0900	629.0210	FERTILIZER TYPE B	CWT	1.590	1.590
0910	630.0200	SEEDING TEMPORARY	LB	27.000	27.000
0920	630.0300	SEEDING BORROW PIT	LB	27.000	27.000
0930	631.0300	SOD WATER	MGAL	17.000	17.000
0940	631.1000	SOD LAWN	SY	2,535.000	2,535.000
0960	634.0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	29.000	29.000
0970	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	19.000	19.000
0980	637.0620	SIGN FLAGS PERMANENT TYPE II	EACH	32.000	32.000
0990	637.2210	SIGNS TYPE II REFLECTIVE H	SF	232.700	232.700
1000	637.2230	SIGNS TYPE II REFLECTIVE F	SF	113.000	113.000
1010	638.2102	MOVING SIGNS TYPE II	EACH	3.000	3.000
1020	638.2602	REMOVING SIGNS TYPE II	EACH	46.000	46.000
1030	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	18.000	18.000
1040	638.4000	MOVING SMALL SIGN SUPPORTS	EACH	3.000	3.000
1050	642.5201	FIELD OFFICE TYPE C	EACH	1.000	1.000
1060	643.0100	TRAFFIC CONTROL (PROJECT) 01. 5971-02-71	EACH	1.000	1.000
1080	643.0300	TRAFFIC CONTROL DRUMS	DAY	4,920.000	4,920.000
1090	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	515.000	515.000
1100	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	1,030.000	1,030.000
1110	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	582.000	582.000
1120	643.0900	TRAFFIC CONTROL SIGNS	DAY	2,860.000	2,860.000
1130	643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	5.000	5.000
1140	643.1000	TRAFFIC CONTROL SIGNS FIXED MESSAGE	SF	24.000	24.000
1150	643.1050	TRAFFIC CONTROL SIGNS PCMS	DAY	134.000	134.000
1160	643.2000	TRAFFIC CONTROL DETOUR (PROJECT) 01. 5971-02-71	EACH	1.000	1.000
1170	643.3000	TRAFFIC CONTROL DETOUR SIGNS	DAY	6,390.000	6,390.000
1180	645.0112	GEOTEXTILE FABRIC TYPE DF SCHEDULE B	SY	351.000	351.000
1200	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	5,328.000	5,328.000
1220	646.0600	REMOVING PAVEMENT MARKINGS	LF	450.000	450.000
1250	647.0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF	28.000	28.000
1260	647.0606	PAVEMENT MARKING ISLAND NOSE EPOXY	EACH	3.000	3.000
1270	647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	129.000	129.000
1280	647.0766	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	LF	201.000	201.000
1290	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	1,925.000	1,925.000
1300	649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	LF	335.000	335.000
1310	649.0801	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH	LF	30.000	30.000
1320	650.4000	CONSTRUCTION STAKING STORM SEWER	EACH	24.000	24.000
1330	650.4500	CONSTRUCTION STAKING SUBGRADE	LF	1,405.000	1,405.000
1340	650.5000	CONSTRUCTION STAKING BASE	LF	1,405.000	1,405.000

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DATE 07MAR14 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	5971-02-71 QUANTITY
1350	650.5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	LF	3,704.000	3,704.000
1370	650.8500	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) 01. 5971-02-71	LS	1.000	1.000
1390	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 5971-02-71	LS	1.000	1.000
1410	650.9920	CONSTRUCTION STAKING SLOPE STAKES	LF	1,405.000	1,405.000
1420	652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	1,855.000	1,855.000
1460	653.0140	PULL BOXES STEEL 24X42-INCH	EACH	7.000	7.000
1480	654.0105	CONCRETE BASES TYPE 5	EACH	15.000	15.000
1490	654.0200	CONCRETE CONTROL CABINET BASES TYPE 6	EACH	1.000	1.000
1500	655.0610	ELECTRICAL WIRE LIGHTING 12 AWG	LF	1,620.000	1,620.000
1510	655.0615	ELECTRICAL WIRE LIGHTING 10 AWG	LF	3,470.000	3,470.000
1520	655.0620	ELECTRICAL WIRE LIGHTING 8 AWG	LF	2,871.000	2,871.000
1570	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 03. STA. 158+92	LS	1.000	1.000
1580	690.0150	SAWING ASPHALT	LF	1,057.000	1,057.000
1590	690.0250	SAWING CONCRETE	LF	263.000	263.000
1620	SPV.0060	SPECIAL 01. POLE ASSEMBLY 30-FT	EACH	15.000	15.000
1630	SPV.0060	SPECIAL 02. LED LUMINAIRE 140 LED	EACH	8.000	8.000
1640	SPV.0060	SPECIAL 03. LED LUMINAIRE 200 LED	EACH	7.000	7.000
1650	SPV.0060	SPECIAL 04. LIGHTING CONTROL CABINET	EACH	1.000	1.000
1660	SPV.0060	SPECIAL 05. ADJUSTING SANITARY MANHOLES	EACH	6.000	6.000
1680	SPV.0060	SPECIAL 07. ADJUSTING WATER VALVES	EACH	10.000	10.000
1690	SPV.0060	SPECIAL 08. REMOVE AND REPLACE CURB STOP AND BOX	EACH	1.000	1.000
1700	SPV.0060	SPECIAL 09. ADJUSTING HYDRANTS	EACH	1.000	1.000
1720	SPV.0060	SPECIAL 11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS	EACH	3.000	3.000
1730	SPV.0060	SPECIAL 12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC YIELD LINE 18-INCH	EACH	29.000	29.000
1750	SPV.0090	SPECIAL 02. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 6-INCH	LF	178.000	178.000
1760	SPV.0090	SPECIAL 03. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 8-INCH	LF	170.000	170.000
1770	SPV.0165	SPECIAL 01. STAMPED COLORED CONCRETE SIDEWALK 4-INCH	SF	2,445.000	2,445.000
1780	SPV.0180	SPECIAL 01. GEOTEXTILE FABRIC TYPE FF	SY	50.000	50.000

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CLEARING AND GRUBBING

STREET	STATION	TO	STATION	CLEARING 201.0105 STA	CLEARING 201.0120 I.D.	GRUBBING 201.0205 STA	GRUBBING 201.0220 I.D.
SOUTH BOULEVARD	159+61			--	10	--	10
SOUTH BOULEVARD	161+66			--	3	--	3
SOUTH BOULEVARD	162+00	-	164+00	2	--	2	--
PROJECT TOTAL				2	13	2	13

204.0100
REMOVING PAVEMENT

STATION	TO	STATION	204.0100 SY
164+20	-	166+30	467
166+30	-	170+05	833
PROJECT TOTAL			1300

3

204.0150
REMOVING CURB & GUTTER

STREET	FROM STATION		TO STATION	OFFSET	204.0150 LF
SOUTH BOULEVARD	158+00	-	166+30	LT	812
SOUTH BOULEVARD	158+00	-	163+36	RT	565
PARKWAY (STH 123)	200+20	-	201+65	RT	146
PARKWAY (STH 123)	200+08	-	201+65	LT	149
SOUTH BOULEVARD	159+58	-	159+62	RT	13
SOUTH BOULEVARD	163+80	-	166+30	RT	302
SOUTH BOULEVARD	166+30	-	170+05	LT	375
SOUTH BOULEVARD	166+30	-	170+05	RT	375
PROJECT TOTAL					2737

204.0155
REMOVING CONCRETE SIDEWALK

STREET	FROM STATION		TO STATION	OFFSET	204.0155 SY
SOUTH BOULEVARD	159+57	-	165+10	LT	307
SOUTH BOULEVARD	164+04	-	165+39	RT	75
SOUTH BOULEVARD	165+28	-	165+32	LT	2
SOUTH BOULEVARD	166+86	-	167+26	LT	22
PARKWAY (STH 123)	200+00	-	201+65	RT	92
PARKWAY (STH 123)	199+67	-	201+65	LT	110
PROJECT TOTAL					608

204.0220
REMOVING INLETS

STREET	STR. NO.	STATION	OFFSET	EACH
SOUTH BOULEVARD		158+12	LT	1
SOUTH BOULEVARD		159+19	LT	1
SOUTH BOULEVARD		158+28	RT	1
SOUTH BOULEVARD		161+13	RT	1
SOUTH BOULEVARD		161+23	RT	1
SOUTH BOULEVARD		161+23	LT	1
SOUTH BOULEVARD		163+06	LT	1
SOUTH BOULEVARD		163+16	RT	1
SOUTH BOULEVARD		163+28	RT	1
SOUTH BOULEVARD		164+89	RT	1
SOUTH BOULEVARD		165+22	LT	1
			TOTAL	11

204.0245
REMOVING STORM SEWER 12-INCH

STREET	STATION	LOCATION	TO STATION	LOCATION	SIZE (IN)	204.0245 LF
SOUTH BOULEVARD	158+27.18	RT	- 158+28.51	RT	12	6
SOUTH BOULEVARD	158+12.14	LT	- 158+19.10	LT	12	7
SOUTH BOULEVARD	161+13.07	RT	- 161+22.69	RT	12	10
SOUTH BOULEVARD	161+22.85	RT	- 161+22.69	RT	12	22
SOUTH BOULEVARD	163+05.65	LT	- 163+06.10	LT	12	18
SOUTH BOULEVARD	163+06.10	RT	- 163+16.25	LT	12	61
SOUTH BOULEVARD	163+16.25	RT	- 163+28.28	RT	12	18
SOUTH BOULEVARD	164+88.77	RT	- 165+10.81	RT	12	27
PROJECT TOTAL						169

204.0280
SEALING PIPES

STREET	STATION	LOCATION		204.0280 EACH
SOUTH BOULEVARD	165+21	29	LT	1
PROJECT TOTAL				1

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

EARTHWORK SUMMARY

Division	From/To Station	Location	Common Excavation (1)	(item # 205.0100)	Salvaged/ Unusable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate +/- (14)	Waste	Borrow (15)	Comment:
			Cut (2)	EBS Excavation (3)				Factor 1.25			(item #208.0100)	
SOUTH BOULEVARD	158+00 to 162+75	Mainline	2258	1500	396	1863	21	26	1836			
SOUTH BOULEVARD - ROUNDABOUT	162+75 to 164+25	Mainline	627	30	86	541	496	619	-79			
SOUTH BOULEVARD	164+25 to 170+05	Mainline	1991	35	712	1279	52	65	1214			
PARKWAY (STH 123)	200+25 to 201+65	Sideroad	483	25	117	366	28	35	331			
			5358	1590								
CATEGORY 0010 SUBTOTAL			Total Common Exc	6948	1310	4048	596	745	3303	3303	0	

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 Breaker run. Excavated EBS material is useable in Fills outside the 1:1 slope.
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
13) Expanded Fill. Factor = 1.25
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) Borrow Excavation item number 208.0100

205.0501.S
EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL

STREET	STATION	TO	STATION	TON	
SOUTH BOULEVARD	162+80	-	163+60	100	*
PROJECT TOTAL				100	

*UNDISTRIBUTED QUANTITY ONLY IF SOILS NEED TO BE REMOVED FROM SITE
CATEGORY 0030

305.0120
BASE AGGREGATE DENSE 1 1/4-INCH

STREET	STATION	TO	STATION	LOCATION	305.0120 TON
PARKWAY (STH 123)	200+08	-	200+85	TEMPORARY WIDENING	14
SOUTH BOULEVARD	158+00	-	158+55	MAINLINE PAVEMENT	188
SOUTH BOULEVARD	158+55	-	159+43	MAINLINE PAVEMENT	214
SOUTH BOULEVARD	159+43	-	162+86	MAINLINE PAVEMENT	736
SOUTH BOULEVARD	162+86	-	164+06	MAINLINE PAVEMENT	396
SOUTH BOULEVARD	164+06	-	166+30	MAINLINE PAVEMENT	406
SOUTH BOULEVARD	166+30	-	170+05	MAINLINE PAVEMENT	768
PARKWAY (STH 123)	199+98	-	201+65	MAINLINE PAVEMENT	368
PROJECT TOTAL					3090

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

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310.0110
BASE AGGREGATE OPEN GRADED

STREET	STATION	TO	STATION		310.0110 TON
SOUTH BOULEVARD	160+60	-	163+25	LT	16
SOUTH BOULEVARD	160+60	-	163+25	RT	16
SOUTH BOULEVARD	40+00	-	42+45	MED	16
PROJECT TOTAL					48

312.0110
SELECT CRUSHED MATERIAL

LOCATION	STATION	TO	STATION	OFFSET	312.0110 TONS
SOUTH BOULEVARD	158+00	-	158+55	LT & RT	187
SOUTH BOULEVARD	158+55	-	159+43	LT & RT	329
SOUTH BOULEVARD	159+43	-	162+86	LT & RT	1076
SOUTH BOULEVARD	162+86	-	164+06	LT & RT	658
SOUTH BOULEVARD	164+06	-	166+30	LT & RT	632
SOUTH BOULEVARD	166+30	-	170+05	LT & RT	1045
PARKWAY (STH 123)	199+98	-	201+65	LT & RT	494
UNDISTRIBUTED (EBS)					500
PROJECT TOTAL					4921

405.0100
COLORING CONCRETE RED

STREET	STATION	TO	STATION	CY
SOUTH BOULEVARD	40+00	-	42+45	75
PROJECT TOTAL				75

416.0260
CONCRETE DRIVEWAY HES 6-INCH

STREET	STATION	OFFSET	416.0260 SY
SOUTH BOULEVARD	158+82	RT	28
SOUTH BOULEVARD	160+31	LT	37
SOUTH BOULEVARD	160+48	RT	28
SOUTH BOULEVARD	161+30	RT	31
SOUTH BOULEVARD	165+23	RT	58
SOUTH BOULEVARD	166+76	RT	35
SOUTH BOULEVARD	167+06	LT	28
SOUTH BOULEVARD	167+54	RT	32
SOUTH BOULEVARD	168+33	RT	23
SOUTH BOULEVARD	168+68	LT	28
SOUTH BOULEVARD	169+04	RT	23
SOUTH BOULEVARD	169+71	LT	33
PARKWAY (STH 123)	201+30	RT	41
PARKWAY (STH 123)	201+41	LT	41
PROJECT TOTAL			466

416.0508
CONCRETE ROUNDABOUT TRUCK APRON 8-INCH

STREET	STATION	TO	STATION	416.0508 SY
SOUTH BOULEVARD	40+00	-	42+45	339
PROJECT TOTAL				339

416.0610
DRILLED TIE BARS

STREET	FROM		TO	EACH
SOUTH BOULEVARD	40+00	-	42+45	82
			PROJECT TOTAL	82

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

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ASPHALTIC PAVEMENT

STATION	TO	STATION	ROADWAY	LOCATION	455.0120 ASPHALTIC MATERIAL PG64-28 (TON)	455.0605 TACK COAT (GAL)	460.1103 HMA PAVEMENT TYPE E-3 (TON)
158+00	-	158+55	SOUTH BOULEVARD	MAINLINE	4	6	73
158+55	-	159+43	SOUTH BOULEVARD	MAINLINE	9	12	164
159+43	-	161+70	SOUTH BOULEVARD	MAINLINE	20	28	367
161+70	-	166+30	SOUTH BOULEVARD	MAINLINE	--	63	--
166+30	-	170+05	SOUTH BOULEVARD	MAINLINE	32	44	577
PROJECT TOTALS					65	153	1181

HMA PAVEMENT INTERSECTIONS, PARKWAY

STATION	TO	STATION	LOCATION	460.4200.S (TON)
161+70	-	166+30	ROUNDABOUT	829
PROJECT TOTALS				829

ASPHALTIC SURFACE TEMPORARY

STATION	TO	STATION	ROADWAY	LOCATION	465.0125 (TON)
161+50	-	163+50	SOUTH BOULEVARD	LT	64
200+08	-	200+85	PARKWAY	RT	8
PROJECT TOTALS					72

465.0120
ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

LOCATION	STATION	OFFSET	465.0120 TON
DRIVEWAYS			
SOUTH BOULEVARD	158+82.00	RT	3
SOUTH BOULEVARD	160+31.00	LT	10
SOUTH BOULEVARD	160+48.00	RT	2
SOUTH BOULEVARD	161+31.00	RT	2
SOUTH BOULEVARD	167+06.00	LT	3
PARKWAY (STH 123)	201+30.00	RT	4
PARKWAY (STH 123)	201+41.00	LT	3
PARKING LOT MATCHES			
SOUTH BOULEVARD	158+30.63	RT	4
SOUTH BOULEVARD	159+06.60	RT	3
SOUTH BOULEVARD	167+25.00	RT	4
SOUTH BOULEVARD	167+96.00	RT	8
PROJECT TOTAL			46

STORM SEWER SUMMARY

ITEM NUMBER	ITEM	QUANTITY	
520.8000	CONCRETE COLLARS FOR PIPE	5	EACH
608.0415	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH	151	LF
608.0512	STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH	285	LF
611.0420	RECONSTRUCTING MANHOLES	1	EACH
611.0530	MANHOLE COVERS TYPE J	7	EACH
611.0624	INLET COVERS TYPE H	14	EACH
611.0639	INLET COVERS TYPE H-S	5	EACH
611.0652	INLET COVERS TYPE T	2	EACH
611.2004	MANHOLES 4-FT DIAMETER	1	EACH
611.2006	MANHOLES 6-FT DIAMETER	2	EACH
611.3225	INLETS 2x2.5-FT	2	EACH
611.3230	INLETS 2x3-FT	19	EACH
611.8110	ADJUSTING MANHOLE COVERS	10	EACH
611.8115	ADJUSTING INLET COVERS	2	EACH

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

STRUCT. NO.	STATION	OFFSET	C-C (FT)	TO STRUCT.	INLET TYPE & COVER		MH TYPE & COVER		RIM/GRATE ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	INLET ELEV.	DISCH. ELEV.	LENGTH (FT)	SLOPE (%)	PIPE CLASS	REMARKS
42	158+20.00	25.1' LT	--	43	--	--	--	--	849.20	--	--	--	--	--	--	--	ADJUST MANHOLE
42A	158+19.00	16.0' LT	--	42	--	--	6-FT DIA.	J	848.79	3.47	18	845.32	--	--	--	--	
42B	158+10.00	23.0' LT	11.0	42A	2x3-FT	H	--	--	848.84	3.22	15	845.62	845.57	11.00	0.50	IV	
42C	158+00.00	23.0' LT	10.0	42B	2x3-FT	H	--	--	848.99	3.32	15	845.67	845.62	10.00	0.50	IV	
42D	158+27.00	23.0' RT	--	42A	2x3-FT	H	--	--	848.57	2.61	15	845.96	--	--	--	--	
43	158+36.00	28.4' LT	--	44	--	--	--	J	848.40	--	--	--	--	--	--	--	ADJUST MANHOLE
44	158+73.00	29.3' LT	--	45	--	--	--	J	847.90	--	--	--	--	--	--	--	ADJUST MANHOLE
44A	159+07.00	23.0' RT	52.0	--	2x3-FT	H	--	--	847.31	3.20	12	844.11	843.85	52.00	0.50	V	CONCRETE COLLAR REQUIRED
45	159+85.10	27.0' LT	--	46	--	--	--	--	846.61	--	--	--	--	--	--	--	ADJUST MANHOLE
46	161+22.00	29.4' LT	--	--	--	--	--	--	845.43	--	--	--	--	--	--	--	ADJUST MANHOLE
46A	161+22.40	24.1' LT	--	46	2x3-FT	H	--	--	844.86	4.44	15	840.42	--	--	--	--	CORE FOR 6" TILE TO DRAIN
--	--	--	8.0	46A	--	--	--	--	--	--	15	840.58	840.42	8.00	2.00	IV	CONCRETE COLLAR REQUIRED
47	161+22.80	6.0' RT	--	46A	--	--	4-FT DIA.	J	844.81	3.66	15	841.15	--	--	--	--	
47A	161+10.00	20.2' RT	19.0	47	2x3-FT	H	--	--	844.69	3.45	15	841.24	841.15	19.00	0.50	IV	CORE FOR 6" TILE TO DRAIN
48A	162+50.00	28.5' LT	6.0	--	2x3-FT	HS	--	--	843.87	3.28	12	840.59	840.53	6.00	1.00	V	CONCRETE COLLAR REQUIRED, CORE FOR 6" TILE TO DRAIN
48B	162+55.00	29.4' LT	7.0	48A	2x3-FT	H	--	--	843.96	3.20	12	840.76	840.69	7.00	1.00	V	CORE FOR 6" TILE TO DRAIN
48C	162+50.00	12.0' LT	11.0	--	2x3-FT	H	--	--	844.12	4.38	15	839.74	839.69	11.00	0.50	IV	CONCRETE COLLAR REQUIRED
48D	162+50.00	2.0' LT	10.0	48C	2x3-FT	H	--	--	843.56	3.77	15	839.79	839.74	10.00	0.50	IV	
48E	162+46.00	15.8' RT	18.0	48D	2x3-FT	HS	--	--	843.28	3.40	15	839.88	839.79	18.00	0.50	IV	CORE FOR 6" TILE TO DRAIN
48F	162+36.00	14.3' RT	10.0	48E	2x3-FT	H	--	--	843.38	3.20	12	840.18	840.13	10.00	0.50	V	CORE FOR 6" TILE TO DRAIN
48E	162+46.00	15.8' RT	--	--	--	--	--	--	843.28	--	--	--	--	--	--	--	
49B	162+99.00	45.4' RT	64.0	49A	2x3-FT	HS	--	--	843.69	3.49	15	840.20	839.88	64.00	0.50	V	CORE FOR 6" TILE TO DRAIN
49A	163+18.00	29.6' RT	24.0	49	2x2.5-FT	T	--	--	843.54	3.22	12	840.32	840.20	24.00	0.50	V	CORE FOR 6" TILE TO DRAIN
49	163+05.60	25.6' LT	--	--	--	--	--	--	844.61	--	--	--	--	--	--	--	ADJUST MANHOLE
50	163+81.40	71.4' RT	--	54	--	--	--	J	844.68	--	--	--	--	--	--	--	ADJUST MANHOLE
50A	163+73.80	75.9' RT	9.0	50	2x3-FT	H	--	--	844.36	4.41	12	839.95	839.86	9.00	1.00	V	
50B	163+51.90	71.2' RT	22.0	50A	2x3-FT	H	--	--	844.66	4.17	12	840.49	840.05	22.00	2.00	V	
50C	163+37.20	64.6' RT	16.0	50B	2x3-FT	H	--	--	844.41	3.50	12	840.91	840.59	16.00	2.00	V	
51	163+67.00	38.5' LT	--	--	--	--	--	--	844.67	--	--	--	--	--	--	--	ADJUST MANHOLE
51A	163+68.20	18.0' LT	--	51	--	--	--	J	844.39	--	--	--	--	--	--	--	RECONSTRUCT MANHOLE
51B	163+80.90	18.1' RT	7.0	--	2x2.5-FT	T	--	--	843.03	3.50	12	839.53	839.39	7.00	2.00	V	CONCRETE COLLAR REQUIRED, CORE FOR 6" TILE TO DRAIN
52	165+15.30	4.0' LT	--	--	--	--	6-FT DIA.	J	841.77	4.53	36	837.24	--	--	--	--	
52A	164+60.00	2.0' LT	55.0	52	2x3-FT	H	--	--	842.30	3.20	12	839.10	838.00	55.00	2.00	V	
52B	165+50.00	15.6' RT	40.0	52	2x3-FT	HS	--	--	841.28	3.53	12	837.75	837.41	40.00	0.85	V	
52C	165+50.00	21.1' LT	37.0	52B	2x3-FT	HS	--	--	841.28	3.13	12	838.15	838.00	37.00	0.40	V	
53	165+10.80	23.2' RT	--	52	--	--	--	--	841.99	--	--	--	--	--	--	--	ADJUST MANHOLE
54	163+77.20	46.1' RT	--	--	--	--	--	--	843.94	--	--	--	--	--	--	--	ADJUST MANHOLE
55	167+24.60	19.8' RT	--	--	--	--	--	--	841.02	--	--	--	--	--	--	--	ADJUST INLET
56	167+70.70	20.1' LT	--	--	--	--	--	--	841.12	--	--	--	--	--	--	--	ADJUST INLET

NOTES:
1. STATION AND OFFSETS TO STRUCTURES ARE MEASURED TO THE CENTER OF STRUCTURE.
2. INLET RIM/GRATE ELEVATIONS ARE TO THE FLANGE LINE.
3. MANHOLE RIM/GRATE ELEVATIONS ARE TO THE CENTER OF STRUCTURE.
4. DEPTH OF STRUCTURES ARE MEASURED FROM THE LOWEST INVERT OF THE STRUCTURE TO THE RIM/GRATE ELEVATION.
5. PIPE LENGTHS FOR ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

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601.0405
CONCRETE CURB & GUTTER 18-INCH TYPE A

STREET	STATION	TO	STATION	LOCATION	601.0405 LF
SOUTH BOULEVARD	163+28	-	163+64	LT & RT	113
PROJECT TOTAL					113

601.0411
CONCRETE CURB & GUTTER 30-INCH TYPE D

STREET	STATION	TO	STATION	LOCATION	601.0411 LF
SOUTH BOULEVARD	158+00	-	158+55	LT & RT	102
SOUTH BOULEVARD	158+55	-	159+43	LT & RT	170
SOUTH BOULEVARD	159+43	-	162+86	LT & RT	1035
SOUTH BOULEVARD	162+86	-	164+06	LT & RT	45
SOUTH BOULEVARD	164+06	-	166+30	LT & RT	650
SOUTH BOULEVARD	166+30	-	170+05	LT & RT	750
PARKWAY (STH 123)	199+98	-	201+65	LT & RT	607
PROJECT TOTAL					3359

601.0582
CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T

STREET	STATION	TO	STATION	LOCATION	601.0582 LF
SOUTH BOULEVARD	163+10	-	163+83	LT & RT	232
PROJECT TOTAL					232

601.0600
CONCRETE CURB PEDESTRIAN

STREET	STATION	TO	STATION	LOCATION	601.0600 LF
UNDISTRIBUTED		-			50
PROJECT TOTAL					50

602.0410
CONCRETE SIDEWALK 5-INCH

STREET	STATION	TO	STATION	OFFSET	602.0410 SF
SOUTH BOULEVARD	158+00	-	159+43	LT & RT	635
SOUTH BOULEVARD	159+43	-	162+84	LT & RT	3206
SOUTH BOULEVARD	162+84	-	164+11	LT & RT	779
SOUTH BOULEVARD	164+11	-	166+30	LT & RT	1262
SOUTH BOULEVARD	166+30	-	170+05	LT & RT	725
PARKWAY (STH 123)	199+36	-	201+65	LT & RT	2452
PROJECT TOTAL					9059

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602.0505
CURB RAMP DETECTABLE WARNING FIELD YELLOW

INTERSECTION	STATION	OFFSET	SF
BADGER DRIVE	158+32.33	LT	8
	158+35.25	RT	8
	158+76.41	LT	8
HIGHLAND DRIVE	159+19.99	RT	8
	159+65.60	RT	8
PARKWAY (STH 123)	162+58.25	LT	8
	162+62.57	LT	8
	162+63.08	LT	8
	162+58.00	RT	8
	163+20.38	RT	8
	163+39.56	RT	8
	163+48.27	RT	8
	163+72.08	RT	8
	164+34.38	RT	8
	164+31.84	LT	8
	164+32.87	LT	8
	164+41.26	LT	8
	PROJECT TOTAL		136

COVER PLATES TEMPORARY

STREET	STATION	OFFSET		611.8120.S EACH
South Boulevard	158+19.00	16.0'	LT	1
South Boulevard	161+22.80	6.0'	RT	1
South Boulevard	165+15.30	4.0'	LT	1
PROJECT TOTAL				3

STATION	TO	STATION	LOCATION	PIPE UNDERDRAIN WRAPPED 6-INCH 612.0406 LF	GEOTEXTILE FABRIC TYPE DF, SCHEDULE B 645.0112 SY
160+60	-	163+25	LT	255	113
160+60	-	163+25	RT	315	140
40+00	-	42+45	MED	220	98
PROJECT TOTAL				790	351

* ANY AND ALL CONNECTIONS BETWEEN THE PROPOSED UNDERDRAIN AND EXISTING AND PROPOSED DRAINAGE STRUCTURES ARE CONSIDERED INCIDENTAL TO THE PIPE UNDERDRAIN BID ITEM.

620.0300
CONCRETE MEDIAN SLOPED NOSE

STREET	STATION	LOCATION	620.0300 SF
SOUTH BOULEVARD	161+67	LT	30
SOUTH BOULEVARD	164+63	LT	30
PARKWAY (STH 123)	200+86	RT	13
PROJECT TOTAL			73

LANDSCAPING

STREET	STATION	TO	STATION	LOCATION	624.0100 WATER MGAL	625.0100 TOPSOIL S.Y.	629.0210 FERTILIZER TYPE B Cwt	630.0200 SEEDING TEMPORARY LB	630.0300 SEEDING BORROW PIT LB	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY
SOUTH BLVD	158+00	-	159+43	LT & RT	5	78	0.05	0	0	1	78
SOUTH BLVD	159+43	-	162+86	LT & RT	11	944	0.59	0	0	6	944
SOUTH BLVD	162+86	-	164+06	LT & RT	4	149	0.09	0	0	1	149
SOUTH BLVD	164+06	-	166+30	LT & RT	7	502	0.32	0	0	3	502
SOUTH BLVD	166+30	-	170+05	LT & RT	12	118	0.07	0	0	1	118
PARKWAY (STH 123)	200+00	-	201+65	LT & RT	5	644	0.41	0	0	4	644
WASTE SITE / UNDISTRIBUTED					1	78	0.06	27	27	1	100
PROJECT TOTAL					45	2513	1.59	27	27	17	2535

EROSION CONTROL

STREET	STATION	TO	STATION	LOCATION	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1905 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.7015 INLET PROTECTION TYPE C EACH	SPV.0180.01 GEOTEXTILE FABRIC, TYPE FF SY
SOUTH BOULEVARD	158+00	-	159+43	RT & LT	0	0	0	0	0	6	0
SOUTH BOULEVARD	159+43	-	162+86	RT & LT	0	0	0	0	0	8	0
SOUTH BOULEVARD	162+86	-	164+06	RT & LT	0	0	0	0	0	2	0
SOUTH BOULEVARD	164+06	-	166+30	RT & LT	0	0	0	0	0	3	0
SOUTH BOULEVARD	166+30	-	170+05	RT & LT	0	0	0	0	0	5	0
PARKWAY (STH 123)	199+98	-	201+65	RT & LT	0	0	0	0	0	4	0
WASTE SITE / UNDISTRIBUTED					30	250	250	3	3	0	50
				PROJECT TOTALS	30	250	250	3	3	28	50

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TYPE II SIGNS

SIGN NO.	LOCATION	SIGN CODE	MESSAGE	SIZE	634.0614 POSTS WOOD 4X6-INCH X 14 FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16 FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	* 637.0620 SIGN FLAGS PERMANENT TYPE II EACH	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS TYPE II EACH	REMARKS
6-2	BADGER DRIVE LT	R1-1	STOP	30 X 30	-	-	5.18	-	-	-	-	
6-3	SOUTH BOULEVARD RT	W2-6	ROUNDABOUT	30 X 30	1	-	-	6.25	2	-	-	
6-4		W13-1	15 M.P.H.	18 X 18	-	-	-	2.25	-	-	-	
6-5	SOUTH BOULEVARD LT	R2-1	30 M.P.H.	24 X 30	1	-	-	5.00	-	-	-	
6-6	HIGHLAND DRIVE RT	R1-1	STOP	30 X 30	1	-	5.18	-	-	-	-	
6-9	SOUTH BOULEVARD RT	J3-1	STH 123 GUIDE SIGNS	48 X 57	-	2	19.00	-	-	-	-	
6-11	SOUTH BOULEVARD RT	W3-2	YIELD AHEAD	36 X 36	-	1	-	9.00	-	-	-	
6-12	SOUTH BOULEVARD RT		CITY GUIDE SIGN	X	-	-	-	-	-	1	1	
6-13	SOUTH BOULEVARD LT	R4-7	KEEP RIGHT	24 X 30	1	-	5.00	-	-	-	-	
6-14	SOUTH BOULEVARD LT	M4-3	BUSINESS	24 X 12	1	-	-	2.00	-	-	-	
6-15		M1-4	USH 12	24 X 24	-	-	-	4.00	-	-	-	
7-1	SOUTH BOULEVARD RT	W11-2	PEDESTRIAN CROSSING	30 X 30	-	1	-	6.25	-	-	-	FLUORESCENT SIGN
7-2		W16-7L	DIAGONAL LEFT ARROW	24 X 12	-	-	-	2.00	-	-	-	FLUORESCENT SIGN
7-3	SOUTH BOULEVARD LT	W11-2	PEDESTRIAN CROSSING	30 X 30	-	1	-	6.25	-	-	-	FLUORESCENT SIGN
7-4		W16-7L	DIAGONAL LEFT ARROW	24 X 12	-	-	-	2.00	-	-	-	FLUORESCENT SIGN
7-5	SOUTH BOULEVARD RT	R1-2	YIELD	36 X 31	-	1	3.88	-	2	-	-	
7-6		R6-2R	ONE WAY RIGHT ARROW	24 X 30	-	-	5.00	-	-	-	-	
7-7	SOUTH BOULEVARD LT	M1-94H(MOD)	SOUTH BOULEVARD	78 X 24	2	-	13.00	-	-	-	-	
7-8	SOUTH BOULEVARD RT	R1-2	YIELD	36 X 31	1	-	3.88	-	2	-	-	
7-9		R1-54	TO TRAFFIC FROM LEFT	24 X 15	-	-	2.50	-	-	-	-	
7-10	SOUTH BOULEVARD RT	R6-1R	ROUNDABOUT ONE WAY	36 X 12	2	-	3.00	-	-	-	-	
7-11		R6-4B	ROUNDABOUT CHEVRON	60 X 24	-	-	10.00	-	-	-	-	
7-12	SOUTH BOULEVARD RT	R6-1R	ROUNDABOUT ONE WAY	36 X 12	2	-	3.00	-	-	-	-	
7-13		R6-4B	ROUNDABOUT CHEVRON	60 X 24	-	-	10.00	-	-	-	-	
7-14	SOUTH BOULEVARD LT	R6-1R	ROUNDABOUT ONE WAY	36 X 12	2	-	3.00	-	-	-	-	
7-15		R6-4B	ROUNDABOUT CHEVRON	60 X 24	-	-	10.00	-	-	-	-	
7-20	SOUTH BOULEVARD LT	R1-2	YIELD	36 X 31	1	-	3.88	-	2	-	-	
7-21		R1-54	TO TRAFFIC FROM LEFT	24 X 15	-	-	2.50	-	-	-	-	
7-22	SOUTH BOULEVARD LT	W11-2	PEDESTRIAN CROSSING	30 X 30	-	1	-	6.25	-	-	-	FLUORESCENT SIGN
7-23		W16-7L	DIAGONAL LEFT ARROW	24 X 12	-	-	-	2.00	-	-	-	FLUORESCENT SIGN
7-24	SOUTH BOULEVARD LT	M1-94H(MOD)	NORTH 123	78 X 24	2	-	13.00	-	-	-	-	
7-25	SOUTH BOULEVARD RT	W11-2	PEDESTRIAN CROSSING	30 X 30	-	1	-	6.25	-	-	-	FLUORESCENT SIGN
7-26		W16-7L	DIAGONAL LEFT ARROW	24 X 12	-	-	-	2.00	-	-	-	FLUORESCENT SIGN
7-27	SOUTH BOULEVARD LT	R1-2	YIELD	36 X 31	-	1	3.88	-	2	-	-	
7-28		R6-2R	ONE WAY RIGHT ARROW	24 X 30	-	-	5.00	-	-	-	-	
7-29	SOUTH BOULEVARD LT	R4-7	KEEP RIGHT	24 X 30	1	-	5.00	-	-	-	-	
7-30	SOUTH BOULEVARD LT		CITY GUIDE SIGN	X	-	-	-	-	-	1	1	
7-32	SOUTH BOULEVARD RT	D9-2	HOSPITAL	24 X 24	1	-	4.00	-	-	-	-	
7-33		MB5-1R	ARROW	21 X 21	-	-	3.06	-	-	-	-	
7-35	SOUTH BOULEVARD LT	W3-2	YIELD AHEAD	36 X 36	-	1	-	9.00	-	-	-	
7-36	SOUTH BOULEVARD RT	J4-1	USH 12	24 X 36	1	-	6.00	-	-	-	-	
7-37	SOUTH BOULEVARD RT	J4-1	STH 123	24 X 36	1	-	6.00	-	-	-	-	
7-38	SOUTH BOULEVARD RT	R2-1	SPEED LIMIT 25	24 X 30	1	-	5.00	-	-	-	-	
7-44	PARKWAY (STH 123) RT	W11-2	PEDESTRIAN CROSSING	30 X 30	-	1	-	6.25	-	-	-	FLUORESCENT SIGN
7-45		W16-7L	DIAGONAL LEFT ARROW	24 X 12	-	-	-	2.00	-	-	-	FLUORESCENT SIGN
7-46	PARKWAY (STH 123) RT	M1-94H(MOD)	SOUTH 123	78 X 24	2	-	13.00	-	-	-	-	
7-47	PARKWAY (STH 123) RT	R1-2	YIELD	36 X 31	-	1	3.88	-	2	-	-	
7-48		R6-2R	ONE WAY RIGHT ARROW	24 X 30	-	-	5.00	-	-	-	-	
7-49	PARKWAY (STH 123) RT	R4-7	KEEP RIGHT	24 X 30	1	-	5.00	-	-	-	-	
7-50	PARKWAY (STH 123) LT	W2-6	ROUNDABOUT	30 X 30	-	1	-	6.25	2	-	-	
7-52		W13-1	15 M.P.H.	18 X 18	-	-	-	2.25	-	-	-	
7-54	PARKWAY (STH 123) LT	J2-1	STH 123	24 X 57	-	1	9.50	-	-	-	-	
7-55	PARKWAY (STH 123) RT	J4-1	STH 123	24 X 36	1	-	6.00	-	-	-	-	
7-57	PARKWAY (STH 123) LT	W3-2	YIELD AHEAD	36 X 36	-	1	-	9.00	-	-	-	
7-58	PARKWAY (STH 123) LT		CITY GUIDE SIGN	X	-	-	-	-	-	1	1	
7-59	PARKWAY (STH 123) LT	W11-2	PEDESTRIAN CROSSING	30 X 30	-	1	-	6.25	-	-	-	FLUORESCENT SIGN
7-60		W16-7L	DIAGONAL LEFT ARROW	24 X 12	-	-	-	2.00	-	-	-	FLUORESCENT SIGN
7-61	PARKWAY (STH 123) LT	R1-2	YIELD	36 X 31	1	-	3.88	-	2	-	-	
7-62		R1-54	TO TRAFFIC FROM LEFT	24 X 15	-	-	2.50	-	-	-	-	
8-1	SOUTH BOULEVARD LT	J2-1	STH 123	24 X 57	-	1	9.50	-	-	-	-	
8-2	SOUTH BOULEVARD LT	J2-1	USH 12	24 X 57	-	1	9.50	-	-	-	-	
8-5	SOUTH BOULEVARD LT	W2-6	ROUNDABOUT	30 X 30	-	1	-	6.25	2	-	-	
8-6		W13-1	15 M.P.H.	18 X 18	-	-	-	2.25	-	-	-	
8-9	SOUTH BOULEVARD LT	R7-1D	NO PARKING ANY TIME	18 X 24	1	-	3.00	-	-	-	-	
8-10	SOUTH BOULEVARD RT	R7-1D	NO PARKING ANY TIME	18 X 24	1	-	3.00	-	-	-	-	
				TOTAL	29	19	232.70	113.00	18	3	3	

* QUANTITY LOCATED ELSEWHERE ON PLANS (TRAFFIC CONTROL)

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

EXISTING SIGNS

SIGN NO.	LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
6-1	SOUTH BOULEVARD	1	-	STOP SIGN
6-7	SOUTH BOULEVARD	1	1	STOP SIGN
6-8	SOUTH BOULEVARD	1	1	SPEED LIMIT
6-10	SOUTH BOULEVARD	1	1	SCHOOL CROSSING
7-16	SOUTH BOULEVARD	1	1	SOUTH
7-16	SOUTH BOULEVARD	1	-	STH 123
7-16	SOUTH BOULEVARD	1	-	ARROW RIGHT
7-17	SOUTH BOULEVARD	1	1	SPEED LIMIT
7-18	SOUTH BOULEVARD	1	1	H
7-18	SOUTH BOULEVARD	1	-	HOSPITAL
7-18	SOUTH BOULEVARD	1	-	ARROW RIGHT
7-18	SOUTH BOULEVARD	1	-	PEDESTRIAN CROSSING
7-19	SOUTH BOULEVARD	1	1	CIRCUS WORLD MUSEUM
7-19	SOUTH BOULEVARD	1	-	NORTH
7-19	SOUTH BOULEVARD	1	-	STH 123
7-19	SOUTH BOULEVARD	1	-	ARROW RIGHT
7-31	SOUTH BOULEVARD	1	1	SPEED LIMIT
7-34	SOUTH BOULEVARD	1	1	BUSINESS
7-34	SOUTH BOULEVARD	1	-	USH 12
7-34	SOUTH BOULEVARD	1	-	NORTH
7-34	SOUTH BOULEVARD	1	-	STH 123
7-53	PARKWAY (STH 123)	1	1	NORTH
7-53	PARKWAY (STH 123)	1	-	STH 123
7-53	PARKWAY (STH 123)	1	-	ARROW AHEAD RIGHT
7-56	PARKWAY (STH 123)	1	1	SOUTH
7-56	PARKWAY (STH 123)	1	-	STH 123
7-63	PARKWAY (STH 123)	1	-	STOP SIGN
7-64	PARKWAY (STH 123)	1	1	NORTH
7-64	PARKWAY (STH 123)	1	-	STH 123
7-64	PARKWAY (STH 123)	1	-	ARROW AHEAD LEFT
7-64	PARKWAY (STH 123)	1	-	SOUTH
7-64	PARKWAY (STH 123)	1	-	STH 123
7-64	PARKWAY (STH 123)	1	-	ARROW RIGHT
7-65	PARKWAY (STH 123)	1	1	CIRCUS WORLD
7-65	PARKWAY (STH 123)	1	-	ARROW AHEAD LEFT
7-65	PARKWAY (STH 123)	1	-	SCHOOL CROSSING
8-3	SOUTH BOULEVARD	1	1	PEDESTRIAN CROSSING
8-4	SOUTH BOULEVARD	1	1	HANDICAP
8-7	SOUTH BOULEVARD	1	1	SOUTH
8-7	SOUTH BOULEVARD	1	-	STH 123
8-7	SOUTH BOULEVARD	1	-	ARROW AHEAD LEFT
8-7	SOUTH BOULEVARD	1	-	BUSINESS
8-7	SOUTH BOULEVARD	1	-	USH 12
8-7	SOUTH BOULEVARD	1	-	ARROW AHEAD RIGHT
8-8	SOUTH BOULEVARD	1	1	NO PARKING ANY TIME
8-11	SOUTH BOULEVARD	1	1	HANDICAP
	PROJECT TOTAL	46	18	

REMOVING PAVEMENT MARKINGS

STREET	STATION	TO	STATION	LOCATION	646.0600 LF
SOUTH BOULEVARD	170+05	-	170+35	C/L	60
SOUTH BOULEVARD	169+10	-	170+35	C/L	250
STH 123	202+20	-	202+90	C/L	140
PROJECT TOTAL					450

PAVEMENT MARKING

LOCATION	STATION	TO	STATION	646.0106 EPOXY 4-INCH WHITE LF	EPOXY 4-INCH YELLOW LF	647.0566 STOP LINE EPOXY 18-INCH LF	647.0606 ISLAND NOSE EPOXY EACH	647.0726 DIAGONAL EPOXY 12-INCH YELLOW LF	647.0766 CROSSWALK EPOXY 6-INCH LF	SPV.0060.11 GROOVED PREFORMED THERMOPLASTIC WORDS EACH	SPV.0060.12 GROOVED PREFORMED THERMOPLASTIC YIELD LINE 18-INCH EACH	SPV.0090.02 GROOVED PREFORMED THERMOPLASTIC CROSSWALK 6-INCH LF	SPV.0090.03 GROOVED PREFORMED THERMOPLASTIC 8-INCH LF
SOUTH BLVD	158+00	-	159+43	177	336	16	-	-	201	-	-	-	-
SOUTH BLVD	159+43	-	162+90	568	984	12	1	47	-	1	11	60	54
SOUTH BLVD	162+90	-	164+02	-	-	-	-	-	-	-	-	-	-
SOUTH BLVD	164+02	-	166+30	321	816	-	1	59	-	1	9	58	56
SOUTH BLVD	166+30		170+05	750	750	-	-	-	-	-	-	-	-
PARKWAY (STH 123)	199+93	-	201+65	162	464	-	1	23	-	1	9	60	60
				1978	3350	28	3	129	201	3	29	178	170
PROJECT TOTAL				5328		28	3	129	201	3	29	178	170

ALL ITEMS ON THIS PAGE ARE CATEGORY 0010

3

3

CONSTRUCTION STAKING

ITEM	DESCRIPTION	LOCATION	QUANTITY	UNIT	CATEGORY
650.4000	CONSTRUCTION STAKING STORM SEWER SYSTEM	SOUTH BLVD (STA 158+00 - 170+05, LT & RT) & PARKWAY (STA 199+65 - 201+65, LT & RT)	24	EACH	0010
650.4500	CONSTRUCTION STAKING SUBGRADE	SOUTH BLVD (STA 158+00 - 170+05, LT & RT) & PARKWAY (STA 199+65 - 201+65, LT & RT)	1405	LF	0010
650.5000	CONSTRUCTION STAKING BASE	SOUTH BLVD (STA 158+00 - 170+05, LT & RT) & PARKWAY (STA 199+65 - 201+65, LT & RT)	1405	LF	0010
650.5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	SOUTH BLVD (STA 158+00 - 170+05, LT & RT) & PARKWAY (STA 199+65 - 201+65, LT & RT)	3704	LF	0010
650.8500	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (5971-02-71)	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (5971-02-71)	1	LS	0020
650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (5971-02-71)	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (5971-02-71)	1	LS	0010
650.9920	CONSTRUCTION STAKING SLOPE STAKES	SOUTH BLVD (STA 158+00 - 170+05, LT & RT) & PARKWAY (STA 199+65 - 201+65, LT & RT)	1405	LF	0010

TRAFFIC CONTROL

STAGE	LOCATION	* 637.0620 SIGN FLAGS PERMANENT TYPE II EACH	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE 'A' DAYS	643.0715 WARNING LIGHTS TYPE 'C' DAYS	643.0900 SIGNS DAYS	643.0920 COVERING SIGNS TYPE II EACH	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PCMS DAYS	643.3000 DETOUR SIGNS DAYS	649.0100 TEMPORARY PAVEMENT MARKING 4-INCH LF	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH LF	649.0801 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH LF
PRE-STAGE 1	SOUTH BOULEVARD	--	375	--	--	--	120	--	--	15	675	--	--	--
STAGE 1A	SOUTH BOULEVARD	--	2115	225	450	450	1170	--	--	45	2025	1125	155	15
STAGE 1B	SOUTH BOULEVARD	--	990	110	220	132	550	--	--	14	990	800	180	15
STAGE 2A	SOUTH BOULEVARD	--	240	30	60	--	170	--	--	10	450	--	--	--
STAGE 2B	SOUTH BOULEVARD	--	240	30	60	--	170	--	--	10	450	--	--	--
STAGE 2C	SOUTH BOULEVARD	--	960	120	240	--	680	--	--	40	1800	--	--	--
DETOUR PLAN		14	--	--	--	--	--	--	24	--	--	--	--	--
UNDISTRIBUTED		--	--	--	--	--	--	5	--	--	--	--	--	--
PROJECT TOTAL		14	4920	515	1030	582	2860	5	24	134	6390	1925	335	30

* QUANTITY LOCATED ELSEWHERE ON PLANS (SIGNS)

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

ELECTRICAL

LOCATION FROM ID	FROM STATION	TO ID	TO STATION	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	653.0140 PULL BOXES STEEL 24X42-INCH EACH	654.0105 CONCRETE BASES TYPE 5 EACH	654.0200 CONCRETE CONTROL CABINET BASES TYPE 6 EACH	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	656.0200 ELECTRIC SERVICE METER BREAKER PEDESTAL LS	SPV.0060.01 POLE ASSEMBLY 30-FT EACH	SPV.0060.02 LED LUMINAIRE 140 LED EACH	SPV.0060.03 LED LUMINAIRE 200 LED EACH	SPV.0060.04 LIGHTING CONTROL CABINET EACH
ES-3	STA. 158+92 (40.5LT)	PB-3-1-1	STA. 158+98 (26LT)	14	---	---	1	---	14	---	1	---	---	---	1
PB-3-1-1	STA. 158+98 (26LT)	PB-3-1-2	STA. 158+98.5 (26RT)	52	1	---	---	---	---	---	---	---	---	---	---
PB-3-1-2	STA. 158+98.5 (26RT)	Pole-1-1	STA. 159+05 (26RT)	7	1	1	---	108	7	---	---	1	1	---	---
ES-3	STA. 158+92 (40.5LT)	PB-3-2-1	STA. 159+04 (26LT)	16	---	---	---	---	64	48	---	---	---	---	---
PB-3-2-1	STA. 159+04 (26LT)	PB-3-2-2	STA. 160+71.5 (26LT)	165	1	---	---	---	495	495	---	---	---	---	---
PB-3-2-2	STA. 160+71.5 (26LT)	PB-3-2-3	STA. 160+70 (26RT)	52	1	---	---	---	52	156	---	---	---		---
PB-3-2-3	STA. 160+70 (26RT)	Pole-2-1	STA. 160+29 (26RT)	42	1	1	---	108	42	252	---	1	1	---	---
PB-3-2-3	STA. 160+70 (26RT)	Pole-2-2	STA. 161+50 (19.5RT)	80	---	1	---	108	---	240	---	1	1	---	---
Pole-2-2	STA. 161+50 (19.5RT)	Pole-2-3	STA. 162+35 (18RT)	87	---	1	---	108	---	261	---	1	---	1	---
Pole-2-3	STA. 162+35 (18RT)	Pole-2-4	STA. 200+13 (41RT)	107	---	1	---	108	---	321	---	1	---	1	---
Pole-2-4	STA. 200+13 (41RT)	PB-3-2-4	STA. 200+48 (29RT)	47	---	---	---	---	47	282	---	---	---	---	---
PB-3-2-4	STA. 200+48 (29RT)	Pole-2-5	STA. 201+74 (24RT)	122	1	1	---	108	---	366	---	1	1	---	---
PB-3-2-4	STA. 200+48 (29RT)	PB-3-2-5	STA. 200+55 (17.5LT)	47	---	---	---	---	---	141	---	---	---	---	---
PB-3-2-5	STA. 200+55 (17.5LT)	Pole-2-6	STA. 200+48 (18LT)	7	1	1	---	108	7	21	---	1	---	1	---
Pole-2-6	STA. 200+48 (18LT)	Pole-2-7	STA. 199+49 (55LT)	96	---	1	---	108	---	288	---	1	---	1	---
PB-3-2-2	STA. 160+71.5 (26LT)	Pole-3-1	STA. 162+67 (38LT)	201	---	1	---	108	603	---	---	1	---	1	---
Pole-3-1	STA. 162+67 (38LT)	Pole-3-2	STA. 163+54 (57LT)	80	---	1	---	108	240	---	---	1	---	1	---
Pole-3-2	STA. 163+54 (57LT)	Pole-3-3	STA. 164+69 (31LT)	90	---	1	---	108	270	---	---	1	---	1	---
Pole-3-3	STA. 164+69 (31LT)	Pole-3-4	STA. 165+86 (24.5LT)	117	---	1	---	108	351	---	---	1	1	---	---
Pole-3-4	STA. 165+86 (24.5LT)	Pole-3-5	STA. 167+29 (23LT)	147	---	1	---	108	441	---	---	1	1	---	---
Pole-3-5	STA. 167+29 (23LT)	Pole-3-6	STA. 168+89 (23LT)	162	---	1	---	108	486	---	---	1	1	---	---
Pole-3-6	STA. 168+89 (23LT)	Pole-3-7	STA. 170+00 (23LT)	117	---	1	---	108	351	---	---	1	1	---	---
		TOTALS		1855	7	15	1	1620	3470	2871	1	15	8	7	1

ALL ITEMS ON THIS PAGE ARE CATEGORY 0020

690.0150
SAWING ASPHALT

STREET	STATION	TO	STATION	690.0150 L.F.
SOUTH BOULEVARD	158+00.00	-	162+50.00	491
SOUTH BOULEVARD	162+50.00	-	166+50.00	137
SOUTH BOULEVARD	166+50.00	-	170+05.00	319
PARKWAY (STH 123)	199+97.66	-	201+65.00	110
			PROJECT TOTAL	1057

690.0250
SAWING CONCRETE

STREET	STATION	TO	STATION	690.0250 LF	LOCATION
SOUTH BOULEVARD	164+06	-	166+30	210	EX. CONCRETE SUBGRADE
SOUTH BOULEVARD	165+08	-	165+39	31	DRIVEWAY
SOUTH BOULEVARD	166+67	-	166+89	22	DRIVEWAY
			PROJECT TOTAL	263	

ADJUSTING SANITARY MANHOLES

STATION	OFFSET	CATEGORY 0030 SPV.0060.05 EACH	EXIST. RIM ELEV.	PROP. RIM ELEV.
158+36.74	14.0' RT	1	849.16	848.56
159+52.90	14.3' RT	1	847.21	846.73
162+04.63	19.6' RT	1	844.4	844.28
163+96.32	51.6' RT	1	843.47	844.09
167+39.11	28.1' RT	1	841.7	841.51
200+60.05	28.6' LT	1	846.87	846.73
PROJECT TOTAL		6		

ADJUSTING WATER VALVES

STATION	OFFSET	CATEGORY 0030 SPV.0060.07 EACH
158+61.50	10.6' RT	1
158+62.30	15.0' LT	1
158+70.20	35.5' RT	1
165+58.84	15.2' LT	1
165+59.23	13.1' RT	1
167+70.96	32.9' RT	1
168+39.94	26.8' RT	1
200+32.80	38.4' RT	1
200+56.45	23.6' RT	1
200+83.10	21.8' LT	1
PROJECT TOTAL		10

REMOVE AND REPLACE CURB STOP AND BOX

STATION	OFFSET	CATEGORY 0030 SPV.0060.08 EACH
200+56.40	23.6' RT	1
PROJECT TOTAL		1

ADJUSTING HYDRANTS

STATION	OFFSET	PROP. GRADE	CATEGORY 0030 SPV.0060.09 EACH	COMMENTS
200+78.50	25.8' LT	847.44	1	ADD 6" VERTICAL EXTENSION
PROJECT TOTAL			1	

SPV.0165.01
STAMPED COLORED CONCRETE SIDEWALK 4-INCH

STREET	STATION	TO	STATION	SPV.0165.01 SF
SOUTH BOULEVARD	161+69	-	162+86	1110
SOUTH BOULEVARD	164+02	-	164+62	520
PARKWAY (STH 123)	200+00	-	200+84	815
PROJECT TOTAL				2445

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
5988-00-04		
FEDERAL PROJECT NUMBER	4.01	13

PLAT OF RIGHT-OF-WAY REQUIRED FOR

SOUTH BOULEVARD

(U.S.H. 12 - S.T.H. 123)

CTHW — SAUK COUNTY

CONSTRUCTION PROJECT NUMBER

5988-00-74

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, OR TOWN LINE	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
PROPOSED REFERENCE LINE	
PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
EASEMENT LINE	
CORPORATE LIMITS	
EXISTING CENTERLINE	
LOT & TIE LINES	
UTILITIES (TELEPHONE,GAS,ELECTRIC,CABLE TV,FIBER OPTIC)	FO (FIBER OPTIC)
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
NO ACCESS (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
PARCEL NUMBER	102
SIGN NUMBER (OFF PREMISE)	21
BUILDING	
FOUND IRON PIPE/PIN	(IF UNLESS NOTED)
R/W MONUMENT	■ #(SET) (CHISELED CROSS +(SET) (MONUMENT ■(SET)
R/W STANDARD	▲ #(SET)
SIGN	#SIGN
SECTION CORNER SYMBOL	

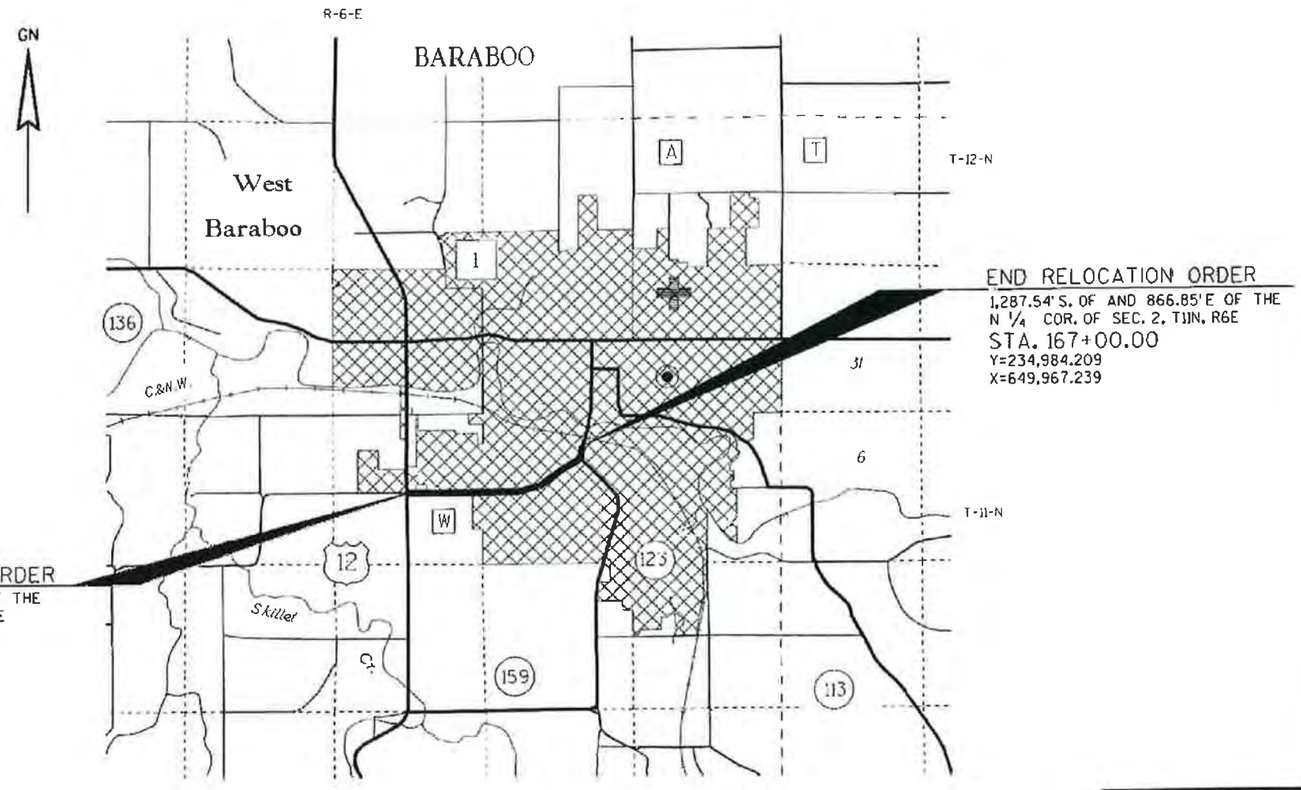
ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET. AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
POINT OF CURVE	P.C.
POINT OF INTERSECT	P.I.
PERMANENT LIMITED EASEMENT	PLE
PROPERTY LINE	PL
POINT OF TANGET	P.T.
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER		
GAS		
TELEPHONE		
OVERHEAD TRANSMISSION LINES		
ELECTRIC		
CABLE TELEVISION		
FIBER OPTIC		
SANITARY SEWER		
STORM SEWER		
POWER POLE	○	●
TELEPHONE POLE	⊗	⊗
TELEPHONE PEDESTAL	⊠	⊠
GUY WIRE		●GUY



BEGIN RELOCATION ORDER
2,777.56' S. OF AND 12.11' E. OF THE N¼ COR. OF SEC. 3, T11N, R6E
STA. 100+00.00
Y=233,524.624
X=643,831.968

END RELOCATION ORDER
1,287.54' S. OF AND 866.85' E OF THE N ¼ COR. OF SEC. 2, T11N, R6E
STA. 167+00.00
Y=234,984.209
X=649,967.239

LAYOUT
SCALE 0 0.5 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.266 MI. (URBAN)

NOTES

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, SAUK COUNTY ZONE, NAD 83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON HIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE 1"x24" IRON PIPES UNLESS OTHERWISE NOTED AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT

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

ORIGINAL PLANS PREPARED BY

GRAEF
1150 Springhurst Drive,
Suite 201
Green Bay, WI 54304-5950
920 / 592 9440
920 / 592 9445 fax
www.graef-usa.com

WISCONSIN MICHAEL C. JENSEN S-2473 WI LAND SURVEYOR

9-15-2010 (Date) (Signature)

REVISION DATE
11-30-2010
10-14-2013

ACCEPTED FOR CITY OF BARABOO

DATE: 9/15/10 (Signature)

MAYOR (Title)

E

FILE NAME : j:\jobs2005\20055028\cad\site\dgn\00\gb\040101_rt.dgn PLOT DATE : 12/7/2010 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 50

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	R/W ACRES REQUIRED			TLE ACRES	P.L.E. ACRES
				NEW	EXISTING	TOTAL		
1	4.03	LOECHLER PROPERTIES, LLC	FEE & TLE	0.011	---	0.011	0.031	---
2	4.03	LOECHLER PROPERTIES, LLC	TLE	---	---	---	0.026	---
3	4.03	LOECHLER PROPERTIES, LLC	TLE	---	---	---	0.125	---
4	4.03, 4.04	JUSTUS H. & ARLENE B. RATHJEN	TLE	---	---	---	0.043	---
5	4.05	MSA PROFESSIONAL SERVICES, INC.	PLE & TLE	---	---	---	0.228	0.001
6	4.03, 4.04	TWJ PROPERTIES, LLC	FEE & TLE	0.037	---	0.037	0.037	---
7	4.04	JEFFREY R. & KATHLEEN BLUM	TLE	---	---	---	0.029	---
8	4.04, 4.05	MSA BARABOO BUILDING, LLC	TLE	---	---	---	0.198	---
9	4.04	MERRY GREENWOOD	FEE & TLE	0.009	---	0.009	0.116	---
10	4.04, 4.05	COMMUNITY FIRST BANK	FEE & TLE	0.011	---	0.011	0.156	---
11	4.05, 4.06	FARM & FLEET OF MADISON, INC.	PLE & TLE	---	---	---	0.263	0.0007
12	4.05, 4.06	MABEL L. DAVID, C/O DALE BURGESS	FEE, PLE & TLE	0.046	---	0.046	0.311	0.004
13	4.06, 4.07, 4.08	BARABOO SYSCO FOOD SERVICES	FEE, PLE & TLE	0.098	---	0.098	0.136	0.0007
14	4.06, 4.07	BLACKHAWK MANOR, LLC	FEE, PLE & TLE	0.025	---	0.025	0.084	0.003
15								
16	4.09	GPK, LLC	TLE	---	---	---	0.019	---
17	4.09	JON N. & KRISTIN H. MARKING	TLE	---	---	---	0.062	---
18	4.09	VERNON HOHL	TLE	---	---	---	0.017	---
19	4.09, 4.10	MICHAEL J. HOPPE, LC	TLE	---	---	---	0.031	---
20								
21	4.10	AMERIGAS PROPANE LP PETROLANE GAS SERVICE LIMITED PARTNERSHIP	TLE	---	---	---	0.020	---
22	4.10	POINTON ENTERPRISES, LLC	FEE & TLE	0.0003	---	0.0003	0.007	---
23	4.11	FRANK M. & CHERI L. NECKAR	TLE	---	---	---	0.010	---
24		(ELIMINATED)	---	---	---	---	---	---
25								
26	4.12, 4.13	SAUK COUNTY FARM BUREAU COOPERATIVE	FEE & TLE	0.002	---	0.002	0.017	---
27	4.12, 4.13	CITY OF BARABOO SWIMMING POOL	FEE & TLE	0.086	---	0.086	0.111	---
28	4.13	MARTIN H. BERNING	FEE & TLE	0.029	---	0.029	0.056	---
29	4.13	EXPRESS FOOD MART, LLC	FEE & TLE	0.002	---	0.002	0.020	---
30								
80	4.03, 4.05, 4.06, 4.07, 4.09	ALLIANT ENERGY CORP. (ELECTRIC)	RELEASE OF RIGHTS	---	---	---	---	---
81	4.04, 4.05,	ALLIANT ENERGY CORP. (GAS)	RELEASE OF RIGHTS	---	---	---	---	---
82	4.03, 4.05, 4.06, 4.07	CHARTER COMMUNICATIONS (CABLE)	RELEASE OF RIGHTS	---	---	---	---	---
83	4.05, 4.06, 4.07, 4.09	SAUK COUNTY EMERGENCY MANAGEMENT BUILDINGS AND SAFETY	RELEASE OF RIGHTS	---	---	---	---	---
84	4.03, 4.06, 4.07, 4.09, 4.13	CENTURYTEL (TELEPHONE)	RELEASE OF RIGHTS	---	---	---	---	---
85	4.08	CITY OF BARABOO (SANITARY SEWER)	RELEASE OF RIGHTS	---	---	---	---	---
86	4.08	CITY OF BARABOO (STORM SEWER)	RELEASE OF RIGHTS	---	---	---	---	---
87	4.03, 4.05, 4.06, 4.07	AMERICAN TRANSMISSION COMPANY	RELEASE OF RIGHTS	---	---	---	---	---

4

4

REVISION DATE 11-30-2010
10-14-2013 - REVISED SHEET NUMBERS FOR PARCELS 82, 83, & 87

DATE 9-15-2010

SCALE, FEET
0 N/A

HWY: SOUTH BOULEVARD

COUNTY: SAUK

STATE R/W PROJECT NUMBER 5988-00-04

CONSTRUCTION PROJECT NUMBER 5988-00-74

PLAT SHEET 4.02

PS&E SHEET 48

E

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	STATE AID PROJECT NO. 1017	VARIES	UNK.
	R/W PORJECT NO. 1670-00-24	VARIES	1999
USH 12	R/W PROJECT NO. 1670-00-24	VARIES	1999

CURVE TABLE

CURVE	CURVE LENGTH	CHORD LENGTH	CHORD BEARING	RADIUS
C28	49.42'	48.69'	S 29°55'15" E	82.50'
C29	47.78'	46.77'	S 67°30'39" E	67.00'
C30	5.00'	5.00'	S 45°20'46" E	82.50'
C31	4.70'	4.70'	N 45°20'46" W	77.50'
C32	35.43'	34.69'	N 67°30'39" W	49.69'

PARCEL 1

COURSE	BEARING	DISTANCE
7490-7053	N 89°58'33" W	94.57'
7053-7196	N 47°05'36" W	64.42'
7196-7472	N 00°29'06" W	22.93'
	C28	
7485-7487	S 47°04'57" E	6.20'
	C29	
7760-7490	S 87°56'21" E	69.96'

PARCEL 6

COURSE	BEARING	DISTANCE
7052-7388	S 89°58'33" E	212.78'
7388-7533	S 00°12'49" E	2.33'
7533-7528	S 87°12'55" W	213.02'
7528-7052	N 00°06'49" W	12.77'

CITY

TOWN

SW-NE SEC. 3

NW-SE SEC. 3

T 12 N R 6 E — 34 34 3 3 — T 11 N R 6 E

Y = 236,302.175
X = 643,819.858
COUNTY MONUMENT

N 00°29'06" W

USH 12

℄ ELEC. EASEMENT VOL. 268 PG. 95

LOECHLER PROPERTIES, LLC
(1)
LOT 2
VOL 7, OF CSM'S
PAGE 1749

LOECHLER PROPERTIES, LLC
(2)
LOT 1
VOL 16, OF CSM'S
PAGE 3307

LOECHLER PROPERTIES, LLC
(3)
LOT 1
VOL. 16 OF CSM'S
PAGE 3295

JUSTUS H. & ARLENE B. RATHJEN
(4)

GN

N 00°14'49" W 2,789.68'
N 00°14'49" W 2,777.59'
LINE

100+37.96 7472 99.76'
100+58.74 7496 61.10'
100+62.35 7495 64.56'
100+65.70 7494 61.26'
100+70.24 7493 57.04'
101+02.31 7800 43.82'
101+10.08 7760 35.54'
101+80.00 7490 33.12'
101+80.14 7491 41.12'
102+36.46 7503 41.17'
102+51.40 7504 41.18'
102+36.54 7502 33.17'
103+37.18 7507 48.57'
103+37.26 7506 33.26'
103+82.00 7498 75.00'
103+77.00 7501 52.00'
104+22.00 7499 75.00'
104+27.00 7505 56.34'
105+47.39 7509 56.44'
105+47.52 7508 33.44'
105+96.00 7513 50.00'
7196
7485 100+62.30 57.59'
7487 100+66.84 53.38'
7053

C30 C32 C29 C28 R BAR

T.L.E. SLOPES 10.82'
SLOPE INTERCEPTS
T.L.E. DRIVE & SLOPES
GUY
BLDG.
MH
SS
W
G
OHP
PL

BEGIN RELOCATION ORDER
STA. 100+00.00
Y = 233,524.624
X = 643,831.968

N 00°08'50" W 44.52'

SOUTH BOULEVARD

S 89° 55' 31" E

SOUTH BLVD. R/W ℄ AND CONSTRUCTION ℄

S 89°58'33" E 1,379.01'

23' (80)

100+00 +50 101+00 +50 102+00 +50 103+00 +50 104+00 +50 105+00 +50 106

STA. 99+99.86
12.09' N 00°14'49" W
180.25'

QUARTER

N 89° 51' 10" E 2,644.50'

268.13'

7052 104+48.38 32.64'
S 00°08'50" E 22.29'

CTH W

ELECTRIC EASEMENT ALONG R/W FENCE VOL 110, P. 635 VOL 119, P. 22

LINE

VARIES

50' WIDE ELEC. EASEMENT REEL 562, IMAGE 255

7528 104+48.43 45.42'
7530 104+48.46 54.49'
N 00°06'49" W 37.10'
7198 104+48.55 82.51'

SLOPE INTERCEPTS

CHARTER COMMUNICATIONS (CABLE) (82)
CENTURYTEL (TELE.) (84)
ALLIANT ENERGY CORP. (ELEC.) (80)
AMERICAN TRANSMISSION CO. (87)

T.L.E. SLOPES

MATCH LINE SEE SHEET 196+00 4.04

T 11 N R 6 E — 3 3 3 3

Y = 233,512.526
X = 643,831.876
COUNTY MONUMENT

N 00°15'29" W 2,634.37'
QUARTER

N 89°53'11 E 319.68' (319.51')

101+28.87 7280 83.57'

N 44°43'09" E 62.12'

T 11 N R 6 E — 3 3 10 10

Y = 230,878.182
X = 643,843.748
1 1/4" IRON ROD

100+85.21 5927 127.77'

N 02°37'41" E

USH 12

COMMONWEALTH CREDIT UNION
LOT 1
CSM #3315

BARABOO

EXISTING 66' WIDE INGRESS/EGRESS ACCESS EASEMENT PER CSM #2385
33' 33'

TWJ PROPERTIES, LLC
(6)
LOT 1
VOL 10, OF CSM'S
PAGE 2385

BARABOO

T 11 N R 6 E — 3 2 3 2

Y = 233,519.321
X = 646,476.375
NAIL
STA. 126+44.41
1.85' RIGHT

REVISION DATE	11-30-2010 10-14-2013 ADDED PARCEL 87	DATE 9-15-2010	SCALE, FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.03	
		GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 49	E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040101_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

WISDOT/CADDS SHEET 75

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	STATE AID PROJECT NO. 1017	66'	UNK
	E.A. MADALON INDUSTRIAL PARK	66'	1980

PARCEL 6

COURSE	BEARING	DISTANCE
7052-7388	S 89°58'33" E	212.78'
7388-7533	S 00°12'49" E	2.33'
7533-7528	S 87°12'55" W	213.02'
7528-7052	N 00°06'49" W	12.77'

PARCEL 9

COURSE	BEARING	DISTANCE
7388-7387	S 89°58'33" E	661.11'
7387-7546	S 00°10'08" E	1.63'
7546-7526	N 89°55'31" W	635.28'
7526-7533	S 87°12'55" W	25.86'
7533-7388	N 00°12'49" W	2.33'

GN

T12N R6E 34 34 3 3 T11N R6E
Y = 236,302.175
X = 643,819.858
COUNTY MONUMENT

CITY

TOWN

SW-NE SEC. 3

JUSTUS H. & ARLENE B. RATHJEN (4)

JEFFREY R. & KATHLEEN BLUM (7)
LOT 1
VOL 7, OF CSM'S
PAGE 1861

MSA BARABOO BUILDING, LLC (8)
LOT 2

LOT 3

E.A. MADALON INDUSTRIAL PARK

ALLIANT ENERGY CORP. (GAS) (81)

OF

106+27.32 63' 7511
106+00.00 63' 7512
106+34.00 63.00' 7811
106+37.00 44.52' 7514
7515 107+27.39 44.60'
7516 107+27.45 33.60'
T.L.E. DRIVE & SLOPES
107+60.00 48.00' 7817
7518 108+50.00 60'
SLOPE INTERCEPTS
7517 108+20.00 48.00'
109+00.00 55.00' 7663
109+55.00 38.80' 7519
110+05.00 38.85' 7520
7521 111+00.00 38.93'
7522 111+50.00 44'
106-00 4.03
112+00 4.05
11' 5'
R BAR
S 89°58'33" E 1,379.01'
7510 106+27.49 33.51'
SOUTH BLVD. R/W & CONSTRUCTION
SOUTH BOULEVARD
+00 +50 107+00 +50 108+00 S 89°55'31" E +50 109+00 +50 110+00 +50 111+00 +50 112+00
66'
CTH W
QUARTER
N 89°51'10" E 2,644.50'
LINE

7388 106+61.16 32.46'
106+14.00 43.00' 7531
7533 106+61.18 34.79'
7532 106+61.23 44.47'
7526 106+87.00 33.50'
7536 107+14.00 41.00'
40' WIDE ELECTRIC EASEMENT REEL 573, IMAGE 333
SLOPE INTERCEPTS
T.L.E. DRIVE & SLOPES
108+60.00 48.50' 7537
15'
7538 109+53.00 48.50'
7847 109+91.73 33.50'
109+91.72 32.16' 7386
40' WIDE ELECTRIC EASEMENT REEL 569, IMAGE 077
7542 110+50.00 62.00'
7543 111+80.00 51.00'
7544 111+50.00 56'
109+91.83 56.79' 7848
109+83.00 56.00' 7539
109+80.00 81.00' 7541
7540 109+56.00 81.00'
84.02'
79.78'
MATCH LINE SEE SHEET
MATCH LINE SEE SHEET

TWJ PROPERTIES, LLC (6)
LOT 1
VOL 10, OF CSM'S
PAGE 2385

MERRY GREENWOOD (9)

NW-SE SEC. 3

BARABOO

COMMUNITY FIRST BANK (10)

T11N R6E 3 3 3 3
Y = 233,512.526
X = 643,831.876
COUNTY MONUMENT

T11N R6E 10 10
Y = 230,878.182
X = 643,843.748
1 1/4" IRON ROD

T11N R6E 3 2 3 2
Y = 233,519.321
X = 646,476.375
NAIL
STA. 126+44.41
1.85' RIGHT

REVISION DATE 11-30-2010 10-14-2013 NO CHANGES	DATE 9-15-2010	SCALE, FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.04
	GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 50 E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040102_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

WISDOT/CADDS SHEET 75

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	STATE AID PROJECT NO. 1017	66'	UNK
	E.A. MADALON INDUSTRIAL PARK	66'	1980
INDUSTRIAL CT.	E.A. MADALON INDUSTRIAL PARK	100'	1980

SIGN SCHEDULE

SIGN NUMBER	OWNER	STATION	OFFSET
9-1	HONEYWOOD ENTERPRISES LLC	112+80	38.8' RT.

PARCEL 9

COURSE	BEARING	DISTANCE
7388-7387	S 89°58'33" E	661.11'
7387-7546	S 00°10'08" E	1.63'
7546-7526	N 89°55'31" W	635.28'
7526-7533	S 87°12'55" W	25.86'
7533-7388	N 00°12'49" W	2.33'

PARCEL 12

COURSE	BEARING	DISTANCE
7387-7391	S 89°58'33" E	972.21'
7391-7557	S 00°04'50" E	2.49'
7557-7546	N 89°55'31" W	972.21'
7546-7387	N 00°10'08" W	1.63'

T12N R6E, 34, 34, 3, 3 — Y = 236,302.175, X = 643,819.858 COUNTY MONUMENT

CITY OF BARABOO

SW-NE SEC. 3

SE-NE SEC. 3

NW-SE SEC. 3

NE-SE SEC. 3

MSA BARABOO BUILDING, LLC (8)

MSA PROFESSIONAL SERVICES, LLC (5)

COMMUNITY FIRST BANK (10)

FARM & FLEET OF MADISON, INC. (11)

TOWN OF BARABOO (12)

LOT 3

LOT 4

E.A. MADALON INDUSTRIAL PARK

INDUSTRIAL COURT R/W ℄ AND CONSTRUCTION ℄

INDUSTRIAL COURT

SOUTH BLVD. R/W ℄ AND CONSTRUCTION ℄

SOUTH BOULEVARD

CTH W

QUARTER LINE

SIXTEENTH LINE

CHARTER COMMUNICATIONS (CABLE) (82)

ALLIANT ENERGY CORP. (GAS) (81)

ALLIANT ENERGY CORP. (ELEC.) (80)

AMERICAN TRANSMISSION CO. (87)

SAUK CO. EMERGENCY MANAGEMENT BUILDINGS AND SAFETY (83)

MABEL L. DAVID C/O DALE BURGESS

7523 112+30.00 70.05'

7846 112+81.87 70.09'

7844 112+82.09 34.09'

7771 115+46.50 34.33' & 36.33'

7770

7768 115+43.50 34.32' & 36.32'

7769

7525 115+58.79 70.34'

7798 115+52.97 40.33'

7797 115+58.97 40.34'

7055 115+59.01 34.34'

7796 115+53.01 34.33'

7017 116+59.01 34.43'

7775 117+16.50 34.48' & 36.48'

7774

7772 117+13.50 34.37' & 36.37'

7773

7561 116+58.93 47.43'

7666 117+25.00 66.48'

7665 117+90.00 54.00' & 66.54'

7664

7549 117+00.00 43.00'

7387 113+22.28 31.87'

7546 113+22.28 33.50'

7545 113+22.36 52.50'

7548 114+00.00 63.00'

7821 114+75.00 61.00'

7820 115+50.00 51.00'

7818 112+51.00 51.00'

7819 112+53.00 40.00'

7387 113+22.28 31.87'

9-1 ELECTRIC EASEMENT ALONG R/W FENCE VOL 119, P. 31

40' WIDE ELECTRIC EASEMENT REEL 569, IMAGE 077

45' WIDE ELECTRIC EASEMENT REEL 562, IMAGE 253

ELECTRIC EASEMENT ALONG R/W FENCE VOL 110, PAGE 503

T.L.E. SLOPES

T.L.E. DRIVE & SLOPES

SLOPE INTERCEPTS

P.L.E. LIGHT POLE

P.L.E. CONTROL CABINET

GUY

R BAR

MH

HO

SAN

W

WV

OH

S 89°58'33" E 1,379.01'

S 89° 55' 31" E

S 89°55'31" E 985.08'

N 89°51'10" E 2,644.50'

N 00°16'26" W

STA. 116+12.56 SOUTH BOULEVARD
STA. 10+00.00 INDUSTRIAL COURT

MATCH LINE SEE SHEET

Y = 233,512.526
X = 643,831.876
COUNTY MONUMENT

Y = 230,878.182
X = 643,843.748
1 1/4" IRON ROD

Y = 233,519.321
X = 646,476.375
NAIL
STA. 126+44.41
1.85' RIGHT

BARABOO

REVISION DATE 11-30-2010 10-14-2013 ADDED PARCELS 80 AND 82	DATE 9-15-2010	SCALE, FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.05
	GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 51 E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040103_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

WISDOT/CADDS SHEET 75

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	STATE AID PROJECT NO. 1017	66'	UNK.

PARCEL 12

COURSE	BEARING	DISTANCE
7387-7391	S 89°58'33" E	972.21'
7391-7557	S 00°04'50" E	2.49'
7557-7546	N 89°55'31" W	972.21'
7546-7387	N 00°10'08" W	1.63'

PARCEL 14

COURSE	BEARING	DISTANCE
7049-7558	S 00°04'50" E	9.27'
7558-7529	N 85°04'10" W	76.79'
7529-7557	N 89°55'31" W	240.50'
7557-7391	N 00°04'50" W	2.49'
7391-7049	S 89°58'33" E	317.00'

T 12 N R 6 E, Sec 34 / 34 / 3 / 3 — T 11 N R 6 E
Y = 236,302.175
X = 643,819.858
COUNTY MONUMENT

CITY

SE-NE
SEC. 3

GN

T 12 N R 6 E, Sec 34 / 35 / 3 / 2 — T 11 N R 6 E
Y = 236,283.650
X = 646,456.230
COUNTY MONUMENT

PL

BARABOO
SYSCO FOOD
SERVICES
13

FARM & FLEET
OF MADISON, INC.
11

OF

BLDG.

7823 118+50.00 45.00'
7776 7777 118+53.50 34.60' & 36.60'
P.L.E. LIGHT POLE 118+56.50 34.60' & 36.60' 7779 7778
7824 119+50.00 54.00'
T.L.E. DRIVE& SLOPES
7780 7781 119+93.50 34.72' & 36.72'
P.L.E. LIGHT POLE
119+96.50 34.72' & 36.72' 7783 7782
7565 120+50.00 58.00'
7825 120+46.00 45.00'
SLOPE INTERCEPTS
7566 121+04.00 58.00'
7567 121+09.00 50.00'
121+33.50 34.84' & 36.84' 7784 7785
P.L.E. LIGHT POLE
121+36.50 34.85' & 36.85' 7787 7786
7668 121+80.00 44.89'
7788 7789 122+73.50 34.97' & 36.97'
P.L.E. LIGHT POLE
122+76.50 34.97' & 36.97' 7791 7790
7570 123+61.11 45.04'
7403 123+61.17 35.05'
10'
R BAR

118+00 4.05
124+00 4.07

PL — S 89°58'33" E — 985.08' — PL

SAN SAN SAN MH SAN SAN SAN SAN SAN SAN SAN SAN MH

W W W

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	STATE AID PROJECT NO. 1017	66'	UNK.
	CSM NO. 4366, 3297, 2904, AND 1390	66'	1994-2001
	DOC. NO. 845226, 777487	66'	2002 & 2004
MOORE ST.			
W½	VOL. 341, P. 286	33'	1967
E½	TOWN/CITY RECORDS	33'	UNK.

PARCEL 13

COURSE	BEARING	DISTANCE
7433-7451	N 00°25'03" W	7.22'
7451-7591	S 89°52'02" E	785.91'
7591-7588	S 00°04'29" W	3.64'
7588-7433	S 89°52'18" W	785.85'

PARCEL 14

COURSE	BEARING	DISTANCE
7049-7558	S 00°04'50" E	9.27'
7558-7529	N 85°04'10" W	76.79'
7529-7557	N 89°55'31" W	240.50'
7557-7391	N 00°04'50" W	2.49'
7391-7049	S 89°58'33" E	317.00'

GN

T 12 N R 6 E, Sec. 34 / 34 / 3 / 3
Y = 236,302.175
X = 643,819.858
COUNTY MONUMENT

T 12 N R 6 E, Sec. 34 / 35 / 3 / 2
Y = 236,283.650
X = 646,456.230
COUNTY MONUMENT

66' WIDE UTILITY EASEMENT
REEL 567, IMAGE 919

SE-NE
SEC. 3

SW-NW
SEC. 2

CITY

VACATED MOORE STREET

N 00°25'03" W 2,764.40'

BARABOO
SYSCO FOOD
SERVICES
13

SECTION LINE
SOUTH BLVD ℄
N 00°25'03" W 1.85'
QUARTER LINE
DETAIL
E.¼CORNER SEC. 3
W.¼CORNER SEC. 2

34' WIDE ELECTRIC EASEMENT
REEL 563, IMAGE 798

7573 STA. 126+44.05 40.29'
7451 STA. 126+44.09 35.29'
STA. 124+50.00 7571 40.12'
7826 STA. 129+00.00 7827 40.04'&45.04'
STA. 129+45.00 7829 7828 39.99'&44.99'
T.L.E. SLOPES 5'
SLOPE INTERCEPTS
10'
84 82

S 89°58'33" E 985.08'
N 00°25'03"W 29.93'
7433
STA. 126+44.40
S 89°55'31" E

SOUTH BOULEVARD
SOUTH BLVD. R/W ℄ AND CONSTRUCTION ℄

80 ALLIANT ENERGY CORP. (ELEC.)

124+00 +50 125+00 +50 126+00 +50 127+00 +50 128+00 +50 129+00 +50 130

QUARTER LINE N 89°51'10" E 2,644.50'
N 89°58'33" W 33.00'
S 00°04'50" E 28.85'
QUARTER LINE S 89°51'36" E 2,620.48'

87 AMERICAN TRANSMISSION CO.
83 SAUK CO. EMERGENCY MANAGEMENT BUILDINGS AND SAFETY
CENTURYTEL (TELE.) 84
10'x10' TELEPHONE EASEMENT REEL 186, 1199
7529 125+35.00 33.50'
7049
126+77.51 7438 37.81'
126+11.51 7558 40.00'
N 89°52'18" E 859.45'
5' WIDE SIDEWALK PERMANENT EASEMENT DOC.# 845226
25' WIDE ELECTRIC EASEMENT REEL 569, 1073
10' WIDE SIDEWALK PERMANENT EASEMENT DOC.# 777487
UTILITY EASEMENT VOL 376, PAGE 664

82 CHARTER COMMUNICATIONS (CABLE)
25' WIDE ELECTRIC EASEMENT REEL 569, 1073
7560 125+50.00 47.00'
7677 125+88.00 38.00'&52.00'
7765
T.L.E. SLOPES
SLOPE INTERCEPTS
P.L.E. STORM SEWER
7834 124+75.00 45.00'
7675 125+98.00 38.85'&52.00'
7766
7559 126+11.55 52.00'
PERMANENT STORM WATER EASEMENT DOC.# 777488

MATCH LINE SEE SHEET 57.79'
MATCH LINE SEE SHEET

T 11 N R 6 E, Sec. 3 / 3 / 3 / 3
Y = 233,512.526
X = 643,831.876
COUNTY MONUMENT

T 11 N R 6 E, Sec. 3 / 3 / 10 / 10
Y = 230,878.182
X = 643,843.748
1¼" IRON ROD

NE-SE
SEC. 3

BLACKHAWK MANOR, LLC
14

N 00°04'50" W 2,647.00'
SECTION
MOORE STREET

T 11 N R 6 E, Sec. 3 / 2 / 3 / 2
Y = 233,519.321
X = 646,476.375
NAIL
STA. 126+44.41
1.85' RIGHT

T 11 N R 6 E, Sec. 3 / 2 / 10 / 11
Y = 230,872.323
X = 646,480.097
1¼" IRON ROD

NW-SW
SEC. 2

OF

BARABOO

STATE OF WISCONSIN
(THE ADJUTANT GENERAL'S OFFCE)
(NATIONAL GUARD ARMORY)

T 11 N R 6 E, Sec. 2 / 2 / 2 / 2
Y = 233,512.920
X = 649,096.850
¾" IRON ROD

REVISION DATE 11-30-2010 10-14-2013 ADDED PARCELS 84 & 87. REVISED FO LINE EAST OF STA. 129+40	DATE 9-15-2010	SCALE, FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.07
	GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 53 E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040105_rp.dgn
PLOT DATE : 2/3/2014
PLOT BY : GRAEF
PLOT NAME :
PLOT SCALE : 40.000080 ft / in.
WISDOT/CADDS SHEET 75

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	STATE AID PROJECT NO. 1017	66'	UNK
	CSM NO. 4366, 3297, 2904, AND 1390	66'	1994-2001
	DOC. NO. 845226, 777487	66'	2002 & 2004
PATE ST.	CITY RESOLUTION	66'	1994

PARCEL 13

COURSE	BEARING	DISTANCE
7433-7451	N 00°25'03" W	7.22'
7451-7591	S 89°52'02" E	785.91'
7591-7588	S 00°04'29" W	3.64'
7588-7433	S 89°52'18" W	785.85'

T 12 N R 6 E
34 35
3 2
T 11 N R 6 E

Y = 236,283.650
X = 646,456.230
COUNTY MONUMENT

CITY

SW-NW
SEC. 2

R BAR

PL

GN

BARABOO
SYSCO FOOD
SERVICES
13

CITY OF BARABOO
(SANITARY SEWER) 85

16' STORM SEWER
EASEMENT
VOL. 200, P. 537

86 CITY OF BARABOO
(STORM SEWER)

16' SANITARY
EASEMENT
VOL. 200, P. 537

7792 STA. 134+14.00
7793 34.52' & 39.52'

7833 STA. 133+90.00
7832 39.54' & 44.54'

7830 STA. 133+50.00
7831 39.58' & 44.58'

P.L.E.
CONTROL
CABINET

STA. 134+20.00 7794
34.51' & 39.51' 7795

STA. 134+30.00 7588
30.86' & 34.50' 7591

T.L.E.
SLOPES

SLOPE
INTERCEPTS

10'

5'

130+00
4.07

136+00
4.09

N 89°52'18" E 492.36'

SOUTH BOULEVARD

SOUTH BLVD.
R/W ℄ AND
CONSTRUCTION ℄

+00 +50 131+00 +50 132+00 +50 133+00 +50 134+00 +50 135+00 +50 136

QUARTER LINE

S 89°55'31" E

S 89°51'36" E 2,620.48'

CTH W

N 89°52'18" E 859.45'

SLOPE
INTERCEPTS

10' WIDE SIDEWALK
PERMANENT EASEMENT
DOC.# 777487

7439 STA. 135+36.95
34.76'

MATCH LINE
SEE SHEET

MATCH LINE
SEE SHEET

STATE OF WISCONSIN
(THE ADJUTANT GENERAL'S OFFICE)
(NATIONAL GUARD ARMORY)

T 11 N R 6 E
3 2
3 2

Y = 233,519.321
X = 646,476.375
NAIL
STA. 126+44.41
1.85' RIGHT

T 11 N R 6 E
3 2
10 11

Y = 230,872.323
X = 646,480.097
1¼" IRON ROD

BARABOO CUSTOM LUBE AND WASH
TAMDEE, LLC
LOT 1
VOL 23, OF CSM'S
PAGE 4366

CASEY'S
MARKETING CO.
LOT 1
VOL 16, OF CSM'S
PAGE 3297

PATE STREET

66'

N 00° 11' 57" E

NW-SW
SEC. 2

BARABOO

T 11 N R 6 E
2 2
2 2

Y = 233,512.920
X = 649,096.850
¾" IRON RICH

REVISION DATE 11-30-2010 10-14-2013 REVISED TV TO FO SYMBOL ALONG SOUTH SIDE	DATE 9-15-2010	SCALE. FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.08
	GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 54 E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040106_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

WISDOT/CADDS SHEET 75

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	STATE AID PROJECT NO. 1017	66'	UNK.
	CSM NO. 4366, 3297, 2904, AND 1390	66'	1994-2001
	DOC. NO. 845226, 777487	66'	2002 & 2004
PATE ST.	CITY RESOLUTION	66'	1994

SIGN SCHEDULE

SIGN NUMBER	OWNER	STATION	OFFSET
17-1	JON N. & KRISTIN H. MARKING	137+89	34.3' RT

CURVE TABLE

CURVE	CURVE LENGTH	CHORD LENGTH	CHORD BEARING	RADIUS
C25	548.36'	544.86'	N 78°38'45" E	1,399.39'
C26	692.87'	686.43'	N 76°19'35" E	1,465.39'
C33	32.35'	32.35'	N 89°14'22" E	1,465.39'
C34	32.39'	32.39'	S 89°14'30" W	1,472.39'
C35	16.56'	16.56'	S 88°17'21" W	1,472.39'
C36	41.20'	41.20'	S 87°10'00" W	1,474.89'
C37	210.37'	210.19'	S 82°15'55" W	1,469.39'
C38	267.90'	267.53'	N 83°22'10" E	1,465.39'

CURVE DATA
P.I. = 143+53.14
Y = 233,518.944
X = 648,185.106
DELTA = 34° 02' 02" (LT)
D = 4° 00' 04"
T = 438.27'
L = 850.62'
R = 1,432.00'
P.C. = 139+14.87
P.T. = 147+65.49

GN

T 12 N R 6 E (34 35 3 2) T 11 N R 6 E
Y = 236,283.650
X = 646,456.230
COUNTY MONUMENT

SW-NW SEC. 2

CITY

LEE C. HOPPE

SE-NW SEC. 2

T 11 N (2 2 2 2) R 6 E
Y = 233,512.920
X = 649,096.850
¾" IRON ROD

JAMES D. WEICKGENANT

136+00 4.08

N 89°52'18" E 492.36'

SLOPE INTERCEPTS

139+22.53 32.58' 7589

SOUTH BLVD. R/W ℄ AND CONSTRUCTION ℄

83 SAUK CO. EMERGENCY MANAGEMENT BUILDINGS AND SAFETY

SOUTH BOULEVARD

PC 139+14.87

137+00 138+00 139+00 140+00 141+00 142+00 4.10

QUARTER — S 89° 55' 31" E — S 89° 51' 36" E — 1,310.24' — LINE — 1,310.24'

STA. 136+02.95 34.53' 7437

80 ALLIANT ENERGY CORP. (ELEC.)

STA. 136+96.95 34.19' 7579

17-1

7580 138+46.95 33.66'

7578 139+22.41 33.42'

7594 139+54.02 33.47'

STA. 139+54.55 3.89' 7183

S 00°28'04" E 29.58'

84 CENTURYTEL (TELE.)

C26-TOTAL R/W

C38 C37

4' T.L.E. DRIVES & SLOPES

1"IP

N 89°52'18" E 319.63'

1"IR BAR

6' WIDE EXISTING UTILITY EASEMENT CSM# 2904

T.L.E. SLOPES

9'

STA. 136+02.94 43.53' 7581

7582 136+96.93 43.20'

7583 136+96.92 52.20'

SLOPE INTERCEPTS

18' T.L.E. DRIVES & SLOPES

STA. 138+46.94 40.66' 7585

7586 139+22.40 40.42'

STA. 138+46.91 51.66' 7584

7595 139+53.90 40.47'

T.L.E. DRIVES & SLOPES

7' C33 C34 C35 C36 9.5'

STA. 139+70.00 40.50' & 43.00' 7596 7597

STA. 140+10.00 37.57' & 43.07' 7598 7599

MATCH LINE SEE SHEET

N 00° 11' 57" E

JON N. & KRISTIN H. MARKING

17

LOT 1 VOL 6, OF CSM'S PAGE 1390

NW-SW SEC. 2

OF VERNON HOHL

18

MICHAEL J. HOPPE, LC

19

SIXTEENTH

GPK, LLC

16

LOT 1 VOL 13, OF CSM'S PAGE 2904

T 11 N (3 2 3 2) R 6 E
Y = 233,519.321
X = 646,476.375
NAIL
STA. 126+44.41
1.85' RIGHT

PATE STREET

T 11 N (3 2 10 11) R 6 E
Y = 230,872.323
X = 646,480.097
1¼" IRON ROD

NOTE:
THE TLE FOR DRIVES AND SLOPES SHOWN ON PARCEL 18 WILL NOT BE ACQUIRED BY THE CITY OF BARABOO FOR USE IN THIS PROJECT. NO WORK IS ALLOWED OFF EXISTING RIGHT-OF-WAY IN THIS LOCATION

NE-SW SEC. 2

BARABOO

REVISION DATE 11-30-2010
10-14-2013 REVISED TV SYMBOL TO FO FOR PARCEL 83. ADDED NOTE TO PARCEL 18.

DATE 9-15-2010

GRID FACTOR

SCALE, FEET 0 20 40

HWY: SOUTH BOULEVARD

COUNTY: SAUK

STATE R/W PROJECT NUMBER 5988-00-04

CONSTRUCTION PROJECT NUMBER 5988-00-74

PLAT SHEET 4.09

PS&E SHEET 55

E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040107_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

WISDOT/CADDS SHEET 75

Y = 233,519.321
X = 646,476.375
NAIL
STA. 126+44.41
1.85' RIGHT

T 12 N, R 6 E, Sec. 34

Y = 236,283.650
X = 646,456.230
COUNTY MONUMENT

CITY

JAMES D.
WEICKGENANT

T 11 N, R 6 E, Sec. 3

CURVE TABLE				
CURVE	CURVE LENGTH	CHORD LENGTH	CHORD BEARING	RADIUS
C25	548.36'	544.86'	N 78°38'45" E	1,399.39'
C26	692.87'	686.43'	N 76°19'35" E	1,465.39'
C37	210.37'	210.19'	S 82°15'55" W	1,469.39'
C38	267.90'	267.53'	N 83°22'10" E	1,465.39'
C39	70.88'	70.87'	N 76°44'47" E	1,465.39'
C40	31.03'	31.03'	S 75°57'37" W	1,480.39'
C41	41.09'	41.09'	S 77°21'45" W	1,469.39'
C42	30.72'	30.72'	N 68°45'19" E	1,465.39'
C43	30.89'	30.89'	S 68°45'19" W	1,473.39'
C44	36.04'	36.04'	S 65°39'07" W	1,473.39'
C45	35.84'	35.84'	N 65°39'09" E	1,465.39'
C68	153.58'	153.51'	S 72°21'30" W	1,465.39'
C69	5.00'	5.00'	S 62°52'44" W	1,465.39'
C70	113.29'	113.26'	S 64°59'45" W	1,465.39'
C72	21.93'	21.93'	S 66°46'55" W	1,465.39'
C73	50.52'	50.51'	S 63°57'51" W	1,465.39'
C75	24.15'	24.15'	S 67°40'58" W	1,465.39'

CURVE DATA
P.I. = 143+53.14
Y = 233,518.944
X = 648,185.106
DELTA = 34° 02' 02" (LT)
D = 4° 00' 04"
T = 438.27'
L = 850.62'
R = 1,432.00'
P.C. = 139+14.87
P.T. = 147+65.49

PME PARTNERS, LLC

CURVE DATA
P.I. = 20+64.81
Y = 233,709.780
X = 648,320.816
DELTA = 24° 32' 55" (RT)
D = 32° 44' 26"
T = 38.08'
L = 74.98'
R = 175.00'
P.C. = 20+26.73
P.T. = 21+01.71

SE-NW SEC. 2

POT 21+99.54

HITCHCOCK STREET R/W ℄ AND CONSTRUCTION ℄

LOT 1

HITCHCOCK STREET

N 00°11'19" W

N 00°17'52" W

PT 21+01.71

PLAT OF VICTORY HEIGHTS

PACJETS LTD.

LOT 3

LOT 2

145+62.46 (7070) 42.27'

SLOPE INTERCEPTS

146+86.16 (7071) 42.49'

N 61° 35' 00" E 120.00'

N 56°38'00" E 130.00'

PC 20+26.73

N 24°44'14" W

STA. 145+35.00 SOUTH BOULEVARD
STA. 20+00.00 HITCHCOCK STREET

STA. 146+23.00 SOUTH BOULEVARD
STA. 30+00.00 WALDO STREET

N 28°15'30" W

PT 29+84.02

PT 147+65.49

N 56°02'27" E

MATCH LINE SEE SHEET 4.11

MATCH LINE SEE SHEET 4.09

142+00

SOUTH BOULEVARD

CTH W

SOUTH BLVD. R/W ℄ AND CONSTRUCTION ℄

SLOPE INTERCEPTS

144+83.46 (7590) 31.62'

STA. 142+15.76 (7600) 33.93'

STA. 142+14.97 (7603) 37.93'

142+85.00 (7606) 34.05' & 49.05' (7607)

142+55.00 (7604) 38.00' & 49.00' (7605)

MICHAEL J. HOPPE, LC (19)

T.L.E. DRIVES & SLOPES

QUARTER

C26=TOTAL R/W

C68

144+88.58 (7613) 34.39'

144+35.00 (7608) 34.30' & 42.30' (7609)

145+94.33 (7763) 34.56'

144+65.00 (7835) 34.35' & 42.35' (7836)

145+10.00 (7837) 34.42' & 42.42' (7838)

145+45.00 (7839) 34.48' & 42.48' (7840)

C70=TOTAL PARCEL

C73

S 58°33'02" E 5.21'

N 00°01'12" E 5.00'

(7436)

145+96.98 (7762) 39.01'

SLOPE INTERCEPTS

POINTON ENTERPRISES, LLC (22)

OUTLOT 1

Y = 230,872.323
X = 646,480.097
1 1/4" IRON ROD

AMERIGAS PROPANE LP
PETROLANE GAS SERVICE
LIMITED PARTNERSHIP (21)

S 89°51'36" E 1,945.07'

OF

NE-SW SEC. 2

Y = 233,512.920
X = 649,096.850
3/4" IRON ROD

675.41'

N 00°01'12" E 128.81' (133.81' TO BLOCK CORNER)

PC 28+95.20

29+00

WALDO STREET

N 00°01'12" E

PC 28+01.40

N 00°49'22" E

CURVE DATA
P.I. = 29+40.59
Y = 233,636.119
X = 648,455.735
DELTA = 29° 04' 52" (LT)
D = 32° 44' 26"
T = 45.39'
L = 88.82'
R = 175.00'
P.C. = 28+95.20
P.T. = 29+84.02

R BANK

N 59°15'02" E 123.56'

146+71.95 (2585) 35.98'

KEVIN M. BARTOL, DC

147+93.03 (7092) 39.77'

LOT 1

FIRST ADDITION TO VICTORY HEIGHTS

BLOCK I

LOT 3

BARABOO

LOT 6

LOT 4

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	PLAT OF VICTORY HEIGHTS	VARIES	1942
	STATE AID PROJECT NO. 1017	66'	UNK.
	FIRST ADDITION TO VICTORY HEIGHTS	VARIES	1946
HITCHCOCK ST.	PLAT OF VICTORY HEIGHTS	66'	1942
WALDO ST.	FIRST ADDITION TO VICTORY HEIGHTS	66'	1946

REVISION DATE 11-30-2010
10-14-2013 NO CHANGES

DATE 9-15-2010

GRID FACTOR

SCALE, FEET 0 20 40

HWY: SOUTH BOULEVARD

COUNTY: SAUK

STATE R/W PROJECT NUMBER 5988-00-04

CONSTRUCTION PROJECT NUMBER 5988-00-74

PLAT SHEET 4.10

PS&E SHEET 56

E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040108_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

WISDOT/CADDS SHEET 75

CURVE TABLE

CURVE	CURVE LENGTH	CHORD LENGTH	CHORD BEARING	RADIUS
C13	72.90'	71.74'	N 17°40'41" W	117.53'

SIGN SCHEDULE

SIGN NUMBER	OWNER	STATION	OFFSET
E-1	PACJETS LTD.	148+82	37.9'
E-2	PACJETS LTD.	149+09	43.5'
E-3	PACJETS FINANCIAL LTD.	148+66	38.2'

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	PLAT OF VICTORY HEIGHTS	VARIES	1942
	STATE AID PROJECT NO. 1017	66'	UNK.
	FIRST ADDITION TO VICTORY HEIGHTS	VARIES	1946
HIGHLAND DR.	FIRST ADDITION TO VICTORY HEIGHTS	50'	1946

CITY

PACJETS LTD.

LOT 14

LOT 15

PLAT OF VICTORY HEIGHTS

LOT 16 LOT 17 LOT 18 LOT 19

SE-NW SEC. 2

GN

T 12 N R 6 E / T 11 N R 6 E — 35 35 2 2

Y = 236,271.747
X = 649,100.391
COUNTY MONUMENT

CITY OF BARABOO

MYRON PARK

148+00
4.10

N 56°38'00" E
130.00'

148+18.54
43.28'

7072

E-1

E-2

E-3

N 55°55'41" E 1,013.58'

SLOPE INTERCEPTS

154+00
4.12

N 00°04'25" E
2,138.23'

STA. 149+85.03

SOUTH BOULEVARD

STA. 154+27.41

+00 +50 149+00 +50 150+00 N 56°02'27" E +50 151+00 +50 152+00 +50 153+00 +50 154

83'

CTH W

SOUTH BLVD. R/W & CONSTRUCTION ℄

S 33°57'33" E
39.39'

149+85.03
39.39'

7076

N 55° 55' 41" E PL 142.00'

7090

149+35.03
39.49'

50'

SLOPE INTERCEPTS

PACJETS FINANCIAL LTD.

BLDG.

LOT 2 BLOCK 1 FIRST ADDITION TO VICTORY HEIGHTS

LOT 3

N 00° 05' 29" E

HIGHLAND DRIVE

VACATED STREET

VARIES

LOT 4

FRANK M. & CHERI L. NECKAR

23

N 34° 04' 19" W

LOT 2

LOT 1

T.L.E. DRIVE SLOPE INTERCEPTS

12'

150+60.00
39.24' & 51.24'

7620 7621

150+96.00
39.17' & 51.17'

7622 7623

R BAR

N 55° 55' 41" E PL 932.27'

GPK, LLC

LOT 3 LOT 4 LOT 5 LOT 6 LOT 7 LOT 8

BLOCK 4 FIRST ADDITION TO VICTORY HEIGHTS

Y = 233,512.920
X = 649,096.850
¾" IRON ROD

N 00°51'18" E LINE
620.59'

QUARTER

N 00°51'18" E
2,645.90'

Y = 230,867.310
X = 649,136.330
COUNTY MONUMENT

SW-NW SEC. 2

BARABOO

MATCH LINE SEE SHEET

REVISION DATE 11-30-2010 10-14-2013 NO CHANGES	DATE 9-15-2010	SCALE: FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.11
	GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 57 E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040109_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

WISDOT/CADDS SHEET 75

CURVE TABLE

CURVE	CURVE LENGTH	CHORD LENGTH	CHORD BEARING	RADIUS
C1	96.31'	95.42'	N 20°36'50" W	205.00'
C2	72.82'	72.15'	N 20°36'50" W	155.00'
C4	38.42'	37.97'	S 18°17'22" E	71.97'
C5	65.55'	64.76'	S 18°23'21" E	121.97'
C74	4.00'	4.00'	N 32°50'41" W	121.97'

PARCEL 26

COURSE	BEARING	DISTANCE
7080-7081	N 55°55'41" E	86.68'
7081-7636	N 88°42'40" E	1.85'
7636-7633	S 55°55'41" W	88.23'
7633-7080	N 33°47'04" W	1.00'

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	PLAT OF VICTORY HEIGHTS	VARIES	1942
	STATE AID PROJECT NO. 1017	66'	UNK.
	FIRST ADDITION TO VICTORY HEIGHTS	VARIES	1946
HIGHLAND DR.	FIRST ADDITION TO VICTORY HEIGHTS	50'	1946
BADGER DR.	PLAT OF VICTORY HEIGHTS	50'	1942

CITY SEC. NW SEC. 2

T 12 N R 6 E 35 35 2 2 T 11 N R 6 E

Y = 236,271.747
X = 649,100.391
COUNTY MONUMENT

2,138.23' LINE

PLAT OF VICTORY HEIGHTS

LOT 19 LOT 20 LOT 21 LOT 22 LOT 23 LOT 24 LOT 25 LOT 27

CITY OF BARABOO

MYRON PARK

154+00 4.11

N 55° 55' 41" E 1013.58' PL

SLOPE INTERCEPTS

QUARTER

N 00°04'25" E 620.59'

STA. 154+27.41

SOUTH BOULEVARD

CTH W

N 56°02'27" E

SOUTH BLVD. R/W ℄ AND CONSTRUCTION ℄

MATCH LINE SEE SHEET

BLDG.

SCOTT T. & BETH A. MULOCK

QUINDT & QUINDT, LLC

GPK, LLC

LOT 8 LOT 9 LOT 10 LOT 11 LOT 12 LOT 13 LOT 14 LOT 15 LOT 16

Y = 233,512.920
X = 649,096.850
¾" IRON ROD

N 00°51'18" E 2,645.90'

Y = 230,867.310
X = 649,136.330
COUNTY MONUMENT

BLOCK 4 FIRST ADDITION TO VICTORY HEIGHTS

SW-NE SEC. 25

BARABOO

BADGER DRIVE

N 7° 09' 20" W

LOT 21

CITY OF BARABOO SWIMMING POOL

27

T.L.E. DRIVES & SLOPES

MYRON PARK

CITY OF BARABOO

7061 158+32.12 45.28'

158+82.12 45.38' 7063

7694 159+84.65 47.58'

7321 159+83.38 45.58'

N 55° 55' 41" E 101.26'

S 01°34'19" W 14.23'

50' R BAR

SLOPE INTERCEPTS

7322 159+75.76 33.56'

N 55°55'41" E 121.77'

160+00 4.13

STA. 159+75.76

N 33°57'33" W 33.56'

STA. 159+67.31

S 33°57'33" E 32.45'

7080 159+67.31 32.45'

7633 159+67.31 33.45'

PL

7077 159+17.29 37.55'

S 33°47'04" E 4.00'

7695 159+67.22 41.45'

SLOPE INTERCEPTS

T.L.E. SLOPES

C4 C5=TOTAL

52.66'

MATCH LINE SEE SHEET

HIGHLAND DRIVE

50'

S 2° 59' 39" E

SAUK COUNTY FARM BUREAU COOPERATIVE

26

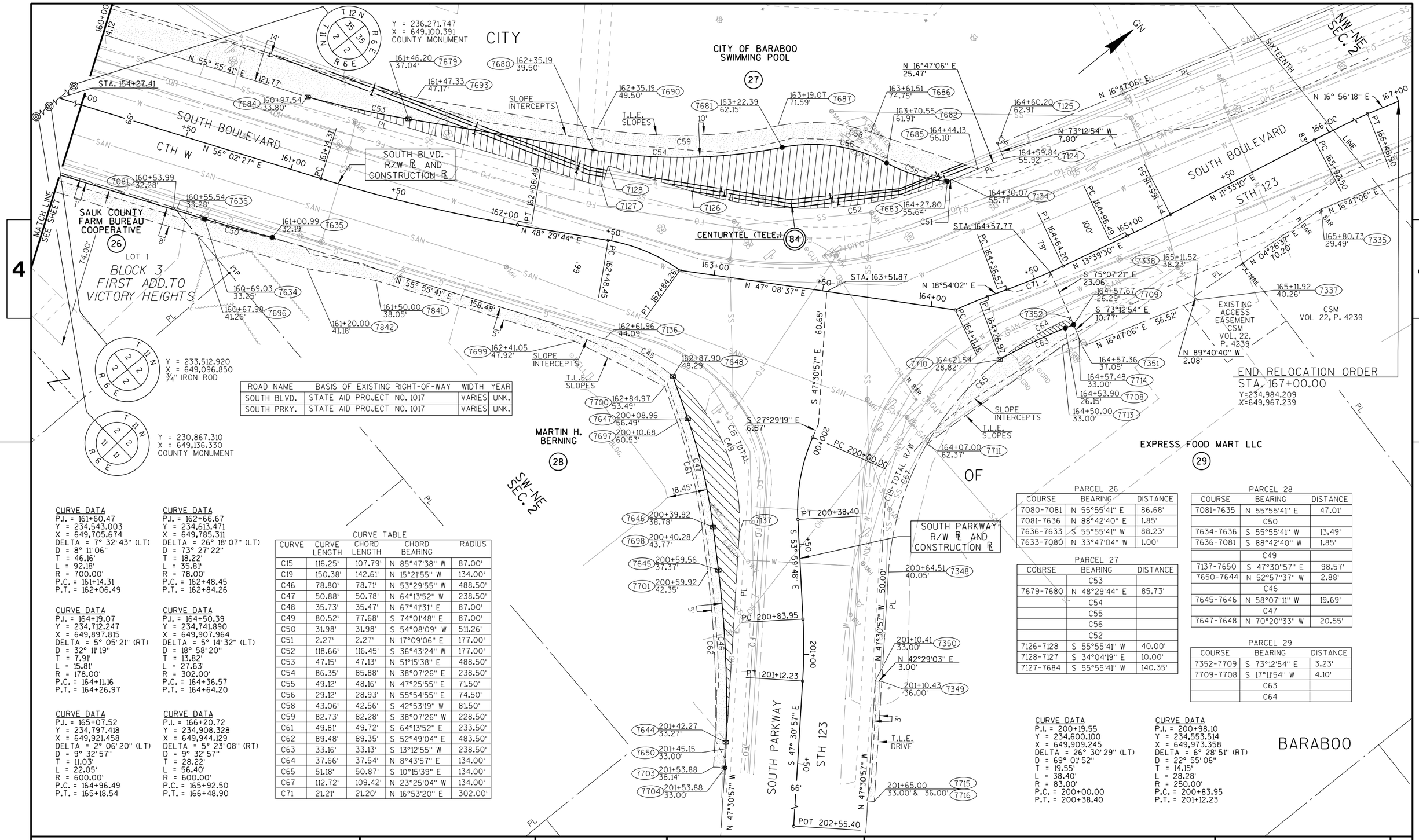
LOT 1 LOT 2

BLOCK 3 FIRST ADDITION TO VICTORY HEIGHTS

REVISION DATE 11-30-2010 10-14-2013 REMOVED OVERHEAD POWER LINES ACROSS HIGHLAND DRIVE	DATE 9-15-2010	SCALE, FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.12	
	GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 58	E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040110_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

WISDOT/CADDS SHEET 75



ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	STATE AID PROJECT NO. 1017	VARIES	UNK.
SOUTH PRKY.	STATE AID PROJECT NO. 1017	VARIES	UNK.

CURVE DATA
P.I. = 161+60.47
Y = 234,543.003
X = 649,705.674
DELTA = 7° 32' 43" (LT)
D = 8° 11' 06"
T = 46.16'
L = 92.18'
R = 700.00'
P.C. = 161+14.31
P.T. = 162+06.49

CURVE DATA
P.I. = 162+66.67
Y = 234,613.471
X = 649,785.311
DELTA = 26° 18' 07" (LT)
D = 73° 27' 22"
T = 18.22'
L = 35.81'
R = 78.00'
P.C. = 162+48.45
P.T. = 162+84.26

CURVE DATA
P.I. = 164+19.07
Y = 234,712.247
X = 649,897.815
DELTA = 5° 05' 21" (RT)
D = 32° 11' 19"
T = 7.91'
L = 15.81'
R = 178.00'
P.C. = 164+11.16
P.T. = 164+26.97

CURVE DATA
P.I. = 164+50.39
Y = 234,741.890
X = 649,907.964
DELTA = 5° 14' 32" (LT)
D = 18° 58' 20"
T = 13.82'
L = 27.63'
R = 302.00'
P.C. = 164+36.57
P.T. = 164+64.20

CURVE DATA
P.I. = 165+07.52
Y = 234,797.418
X = 649,921.458
DELTA = 2° 06' 20" (LT)
D = 9° 32' 57"
T = 11.03'
L = 22.05'
R = 600.00'
P.C. = 164+96.49
P.T. = 165+18.54

CURVE DATA
P.I. = 166+20.72
Y = 234,908.328
X = 649,944.129
DELTA = 5° 23' 08" (RT)
D = 9° 32' 57"
T = 28.22'
L = 56.40'
R = 600.00'
P.C. = 165+92.50
P.T. = 166+48.90

CURVE TABLE

CURVE	CURVE LENGTH	CHORD LENGTH	CHORD BEARING	RADIUS
C15	116.25'	107.79'	N 85°47'38" W	87.00'
C19	150.38'	142.61'	N 15°21'55" W	134.00'
C46	78.80'	78.71'	N 53°29'55" W	488.50'
C47	50.88'	50.78'	N 64°13'52" W	238.50'
C48	35.73'	35.47'	N 67°41'31" E	87.00'
C49	80.52'	77.68'	S 74°01'48" E	87.00'
C50	31.98'	31.98'	S 54°08'09" W	511.26'
C51	2.27'	2.27'	N 17°09'06" E	177.00'
C52	118.66'	116.45'	S 36°43'24" W	177.00'
C53	47.15'	47.13'	N 51°15'38" E	488.50'
C54	86.35'	85.88'	N 38°07'26" E	238.50'
C55	49.12'	48.16'	N 47°25'55" E	71.50'
C56	29.12'	28.93'	N 55°54'55" E	74.50'
C58	43.06'	42.56'	S 42°53'19" W	81.50'
C59	82.73'	82.28'	S 38°07'26" W	228.50'
C61	49.81'	49.72'	S 64°13'52" E	233.50'
C62	89.48'	89.35'	S 52°49'04" E	483.50'
C63	33.16'	33.13'	S 13°12'55" W	238.50'
C64	37.66'	37.54'	N 8°43'57" E	134.00'
C65	51.18'	50.87'	S 10°15'39" E	134.00'
C67	112.72'	109.42'	N 23°25'04" W	134.00'
C71	21.21'	21.20'	N 16°53'20" E	302.00'

PARCEL 26

COURSE	BEARING	DISTANCE
7080-7081	N 55°55'41" E	86.68'
7081-7636	N 88°42'40" E	1.85'
7636-7633	S 55°55'41" W	88.23'
7633-7080	N 33°47'04" W	1.00'

PARCEL 27

COURSE	BEARING	DISTANCE
	C53	
7679-7680	N 48°29'44" E	85.73'
	C54	
	C55	
	C56	
	C52	
7126-7128	S 55°55'41" W	40.00'
7128-7127	S 34°04'19" E	10.00'
7127-7684	S 55°55'41" W	140.35'

PARCEL 28

COURSE	BEARING	DISTANCE
7081-7635	N 55°55'41" E	47.01'
	C50	
7634-7636	S 55°55'41" W	13.49'
7636-7081	S 88°42'40" W	1.85'
	C49	
7137-7650	S 47°30"57" E	98.57'
7650-7644	N 52°57"37" W	2.88'
	C46	
7645-7646	N 58°07"11" W	19.69'
	C47	
7647-7648	N 70°20"33" W	20.55'

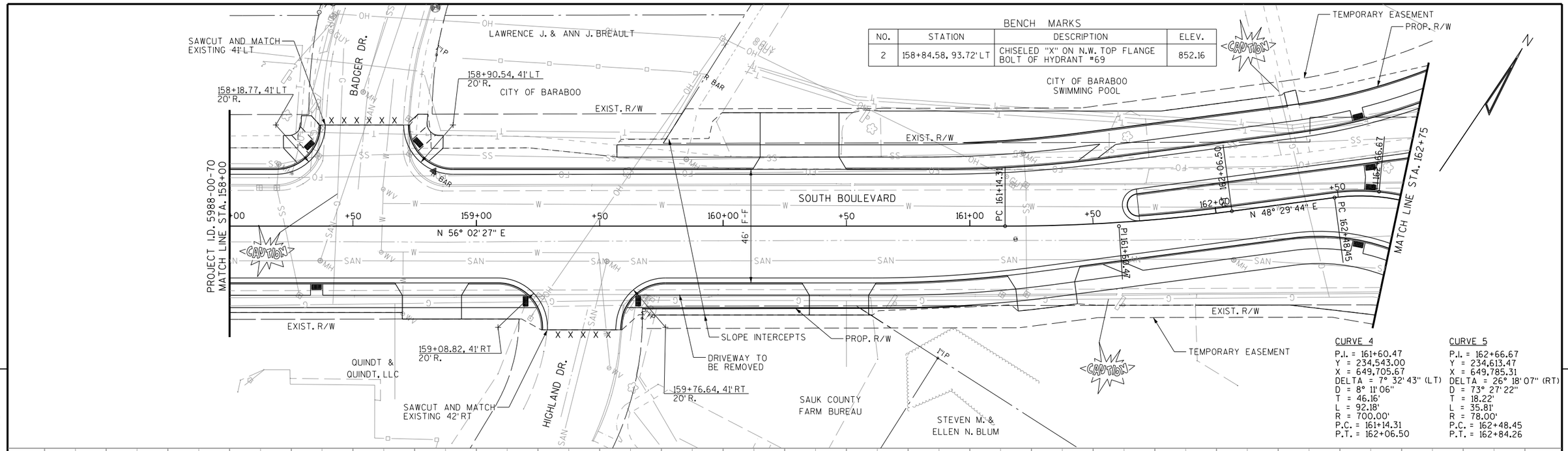
PARCEL 29

COURSE	BEARING	DISTANCE
7352-7709	S 73°12'54" E	3.23'
7709-7708	S 17°11'54" W	4.10'
	C63	
	C64	

CURVE DATA
P.I. = 200+19.55
Y = 234,600.100
X = 649,909.245
DELTA = 26° 30' 29" (LT)
D = 69° 01' 52"
T = 19.55'
L = 38.40'
R = 83.00'
P.C. = 200+00.00
P.T. = 200+38.40

CURVE DATA
P.I. = 200+98.10
Y = 234,553.514
X = 649,973.358
DELTA = 6° 28' 51" (RT)
D = 22° 55' 06"
T = 14.15'
L = 28.28'
R = 250.00'
P.C. = 200+83.95
P.T. = 201+12.23

REVISION DATE 11-30-2010 10-14-2013 REVISED OVERHEAD POWER LINES AND UNDERGOUND TELEPHONE.	DATE 9-15-2010	SCALE: FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.13
	GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 59 E

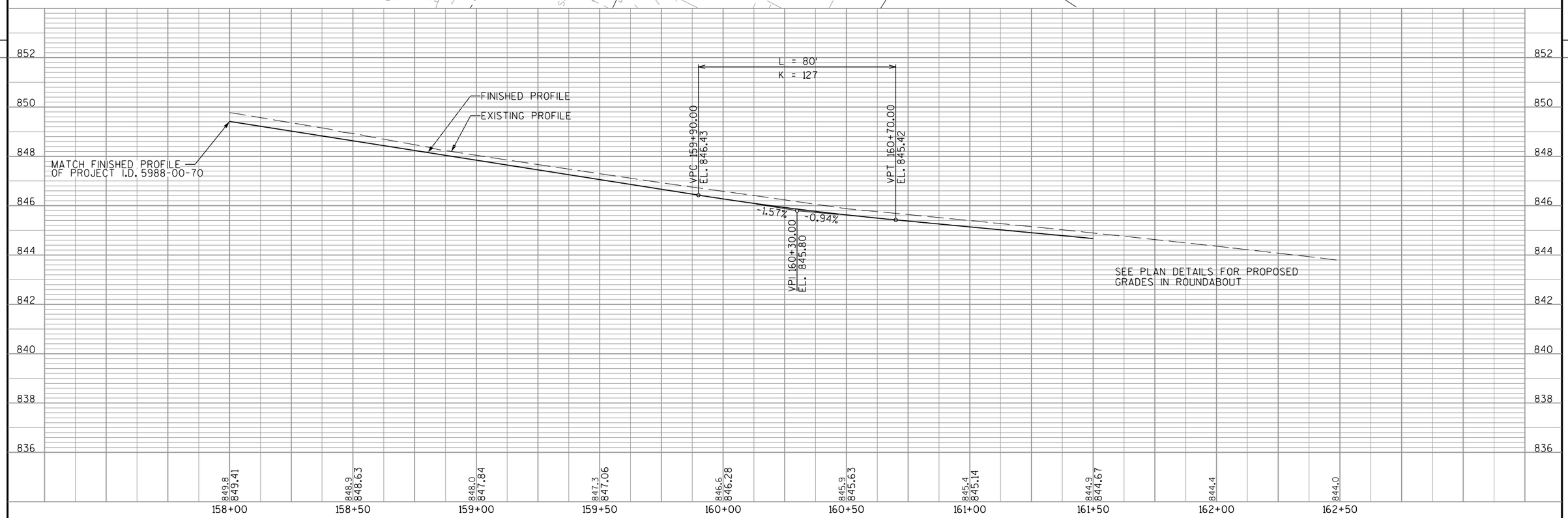


BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
2	158+84.58, 93.72' LT	CHISELED "X" ON N.W. TOP FLANGE BOLT OF HYDRANT #69	852.16

CURVE 4
P.I. = 161+60.47
Y = 234,543.00
X = 649,705.67
DELTA = 7° 32' 43" (LT)
D = 8° 11' 06"
T = 46.16'
L = 92.18'
R = 700.00'
P.C. = 161+14.31
P.T. = 162+06.50

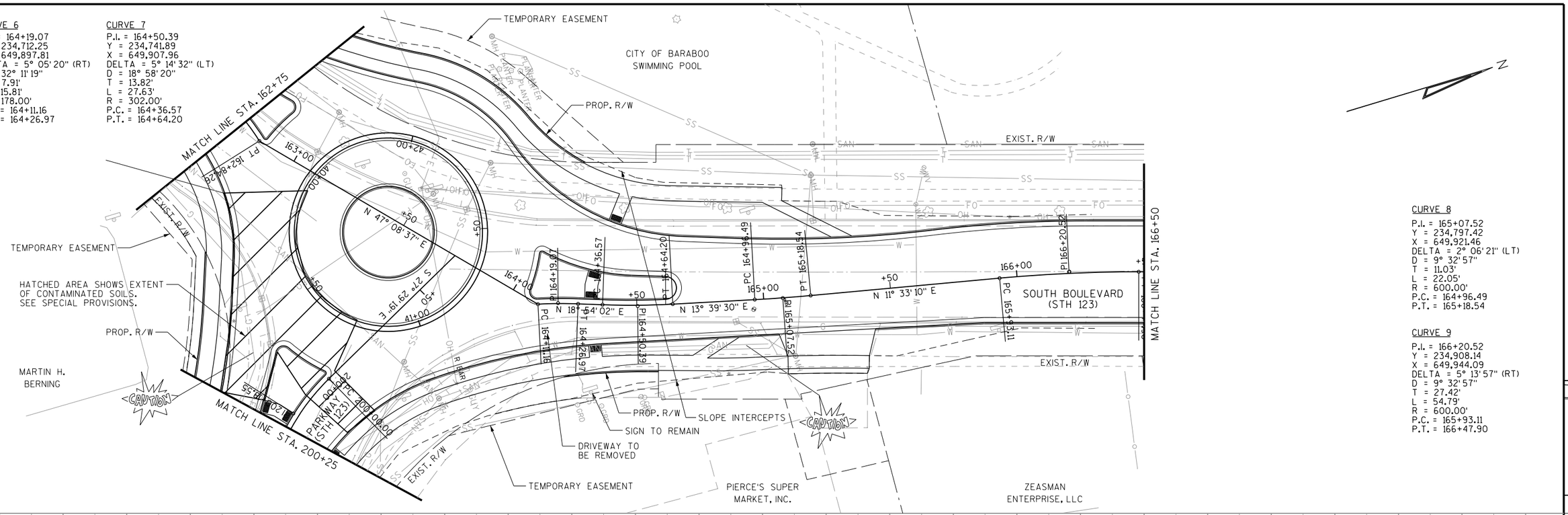
CURVE 5
P.I. = 162+66.67
Y = 234,613.47
X = 649,785.31
DELTA = 26° 18' 07" (RT)
D = 73° 27' 22"
T = 18.22'
L = 35.81'
R = 78.00'
P.C. = 162+48.45
P.T. = 162+84.26



PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN AND PROFILE	SHEET 60	E

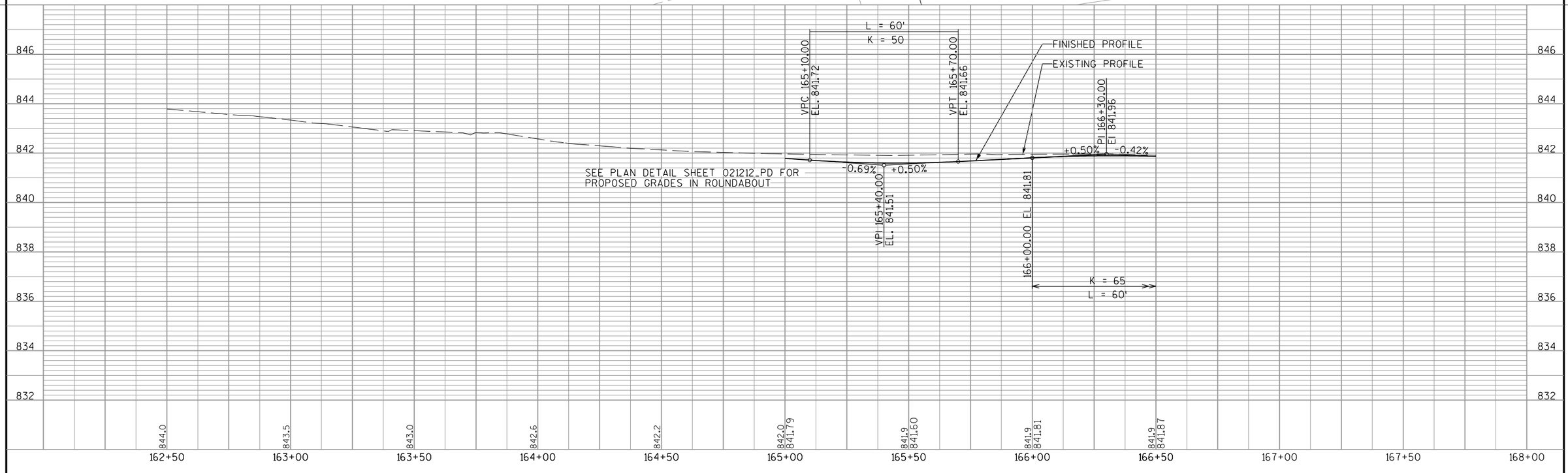
CURVE 6
P.I. = 164+19.07
Y = 234,712.25
X = 649,897.81
DELTA = 5° 05' 20" (RT)
D = 32° 11' 19"
T = 7.91'
L = 15.81'
R = 178.00'
P.C. = 164+11.16
P.T. = 164+26.97

CURVE 7
P.I. = 164+50.39
Y = 234,741.89
X = 649,907.96
DELTA = 5° 14' 32" (LT)
D = 18° 58' 20"
T = 13.82'
L = 27.63'
R = 302.00'
P.C. = 164+36.57
P.T. = 164+64.20



CURVE 8
P.I. = 165+07.52
Y = 234,797.42
X = 649,921.46
DELTA = 2° 06' 21" (LT)
D = 9° 32' 57"
T = 11.03'
L = 22.05'
R = 600.00'
P.C. = 164+96.49
P.T. = 165+18.54

CURVE 9
P.I. = 166+20.52
Y = 234,908.14
X = 649,944.09
DELTA = 5° 13' 57" (RT)
D = 9° 32' 57"
T = 27.42'
L = 54.79'
R = 600.00'
P.C. = 165+93.11
P.T. = 166+47.90



PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN AND PROFILE	SHEET 61	E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
1	167+02.94, 28.01' RT	CHISELED "X" ON WEST TOP FLANGE BOLT OF HYDRANT #67	843.95

CITY OF BARABOO
SWIMMING POOL

EXIST. R/W

LYNN AVENUE

MATCH LINE STA. 166+50

167+00 +50 168+00 +50 169+00 +50 170+00 +50 171+00

POT 171+43.09

SAWCUT AND MATCH EXISTING

N 16° 47' 06" E

SOUTH BOULEVARD (STH 123)

EXISTING JOINT

EXIST. R/W

B.M. #1

EXIST. R/W

EXISTING SIDEWALK INSTALLED BY OTHERS PRIOR TO CONSTRUCTION (VERIFY LOCATION AND NOTIFY ENGINEER OF DISCREPANCIES)

END PROJECT 5971-02-71
STA. 170+05.00

ZEASMAN
ENTERPRISE, LLC

STEVEN L. MILLS

PATRICIA J. &
ROBERT D. FRANK

5

5

K = 57
L = 60'

167+20.00 EL 841.58

167+80.00 EL 841.64

PI 168+55.00
EL 842.10

FINISHED PROFILE

EXISTING PROFILE

841.20

+0.62%

-0.60%

-0.42%

+0.62%

166+60.00 EL 841.83

PI 167+50.00
EL 841.45

168+25.00 EL 841.91

168+85.00 EL 841.92

K = 49
L = 60'

846 844 842 840 838 836 834 832

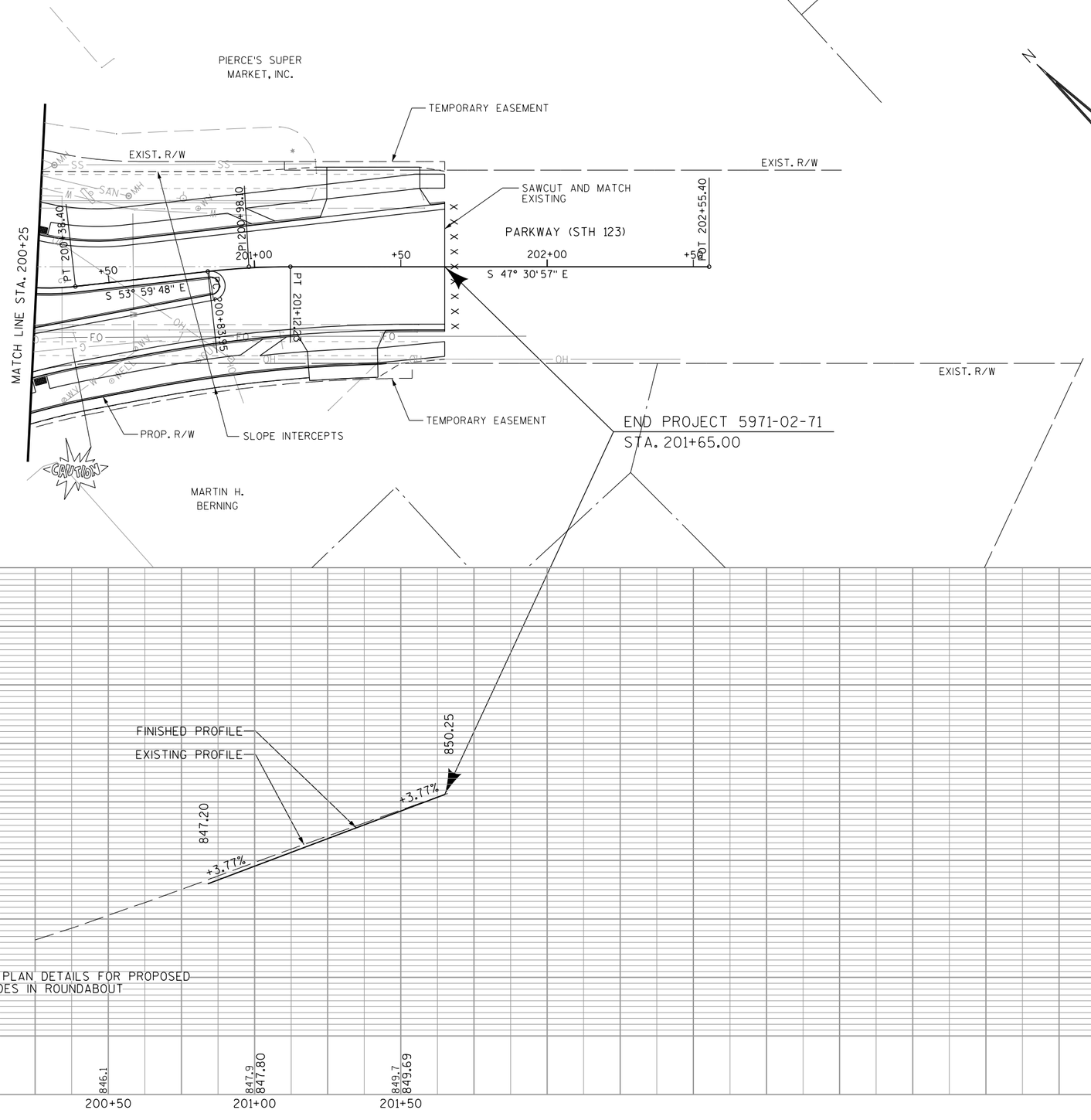
841.9 841.87 | 841.8 841.66 | 841.7 841.53 | 841.7 841.76 | 841.6 842.01 | 841.5 841.83 | 841.4 841.53 | 841.2 841.23

166+50 167+00 167+50 168+00 168+50 169+00 169+50 170+00

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN AND PROFILE	SHEET 62	E

CURVE 10
P.I. = 200+19.55
Y = 234,600.10
X = 649,909.25
DELTA = 26° 30' 29" (LT)
D = 69° 01' 52"
T = 19.55'
L = 38.40'
R = 83.00'
P.C. = 200+00.00
P.T. = 200+38.40

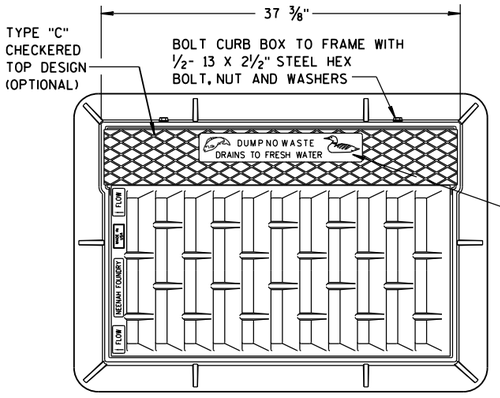
CURVE 11
P.I. = 200+98.10
Y = 234,553.51
X = 649,973.36
DELTA = 6° 28' 51" (RT)
D = 22° 55' 06"
T = 14.15'
L = 28.28'
R = 250.00'
P.C. = 200+83.95
P.T. = 201+12.23



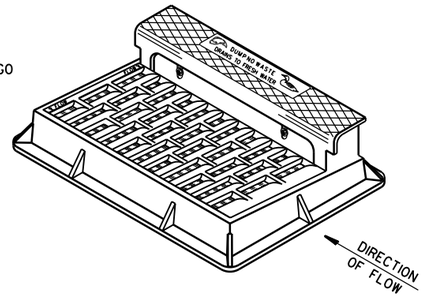
PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN AND PROFILE - PARKWAY	SHEET 63	E

Standard Detail Drawing List

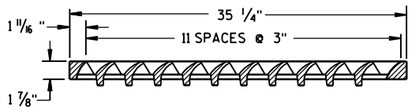
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-15A	CURB RAMPS TYPES 1 AND 1-A
08D05-15B	CURB RAMPS TYPES 2 AND 3
08D05-15C	CURB RAMPS TYPES 4A AND 4A1
08D05-15D	CURB RAMPS TYPE 4B AND 4B1
08D05-15E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-07	CONDUIT
09B04-10	PULL BOX
09C02-06	CONCRETE BASES, TYPES 1, 2 & 5
09C05-08	CONCRETE CONTROL CABINET BASES
09D01-04	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-02	SIGNAL OR LIGHTING CONTROL CABINET
11B02-02	CONCRETE MEDIAN NOSE
13C01-16	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-02	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12B	PAVEMENT MARKING WORDS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C18-03	MEDIAN ISLAND MARKING
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D28-02	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-01	TRAFFIC CONTROL, SIDEWALK CLOSURE

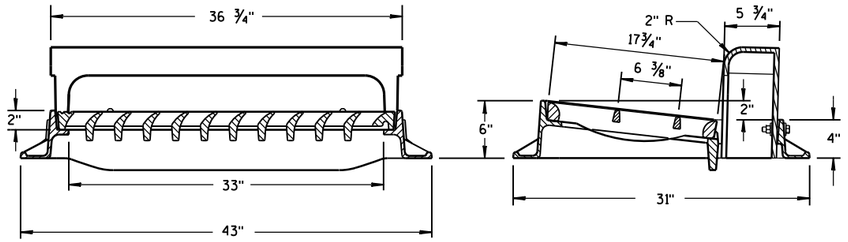


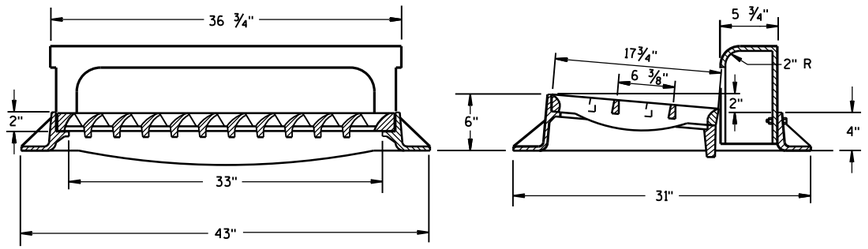
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

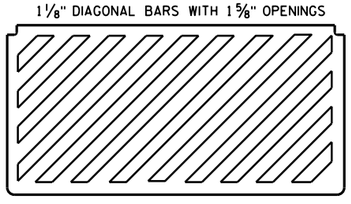






TYPE "H"

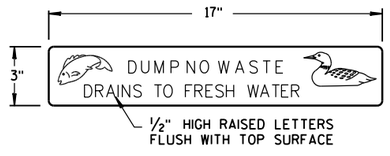
NOTE: EITHER CASTING IS ACCEPTABLE



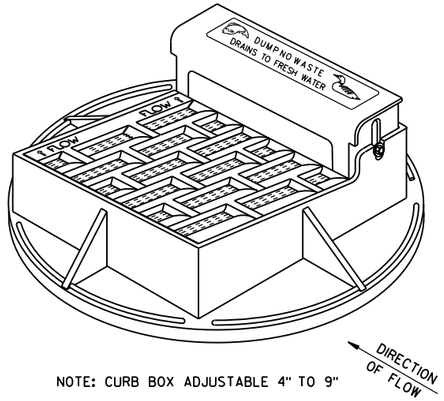
SPECIAL GRATE FOR TYPE "H" COVER

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

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

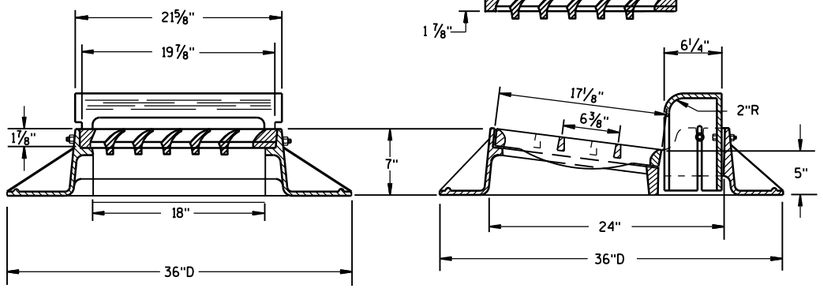


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



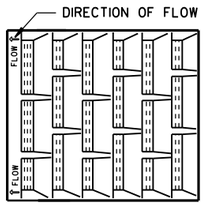
TYPE "A"

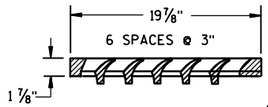
GENERAL NOTES

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.

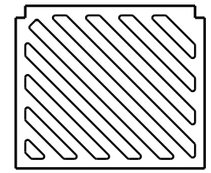
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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





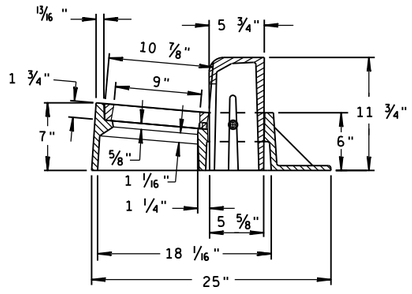
1" DIAGONAL BARS WITH 1 1/2" OPENINGS

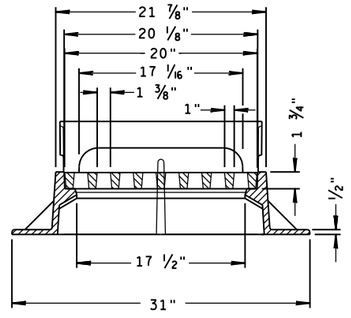


SPECIAL GRATE FOR TYPE "A" COVER

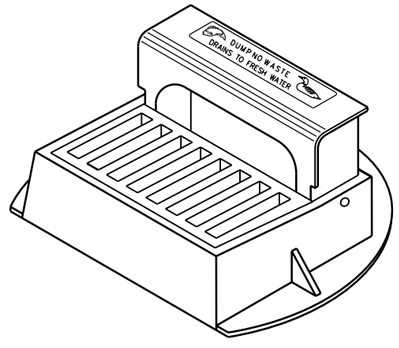
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"



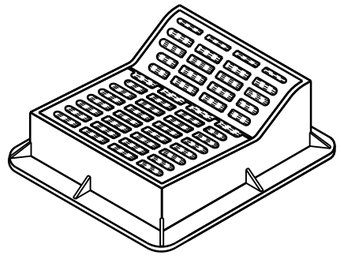
INLET COVERS
TYPE A, H, A-S, H-S & Z

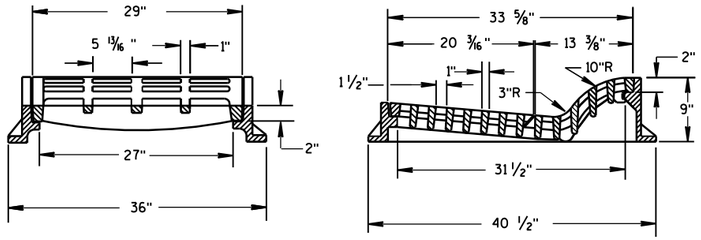
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

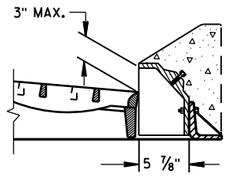
S.D.D. 8 A 5-19a





TYPE "F"

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



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

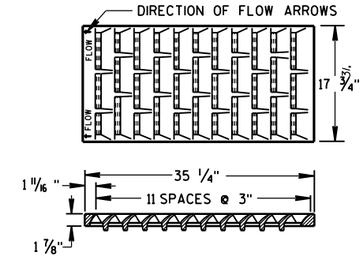
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

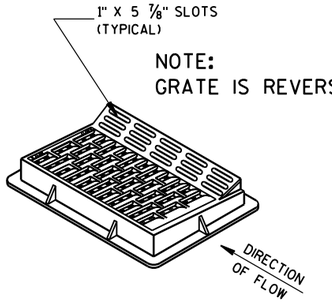
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

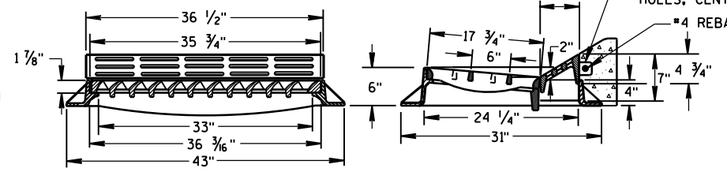
GENERAL NOTES

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.



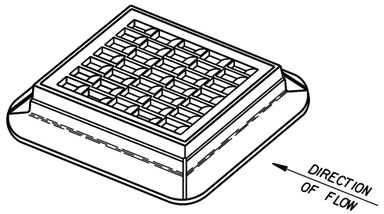


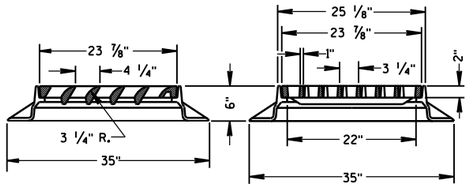


TYPE "HM"

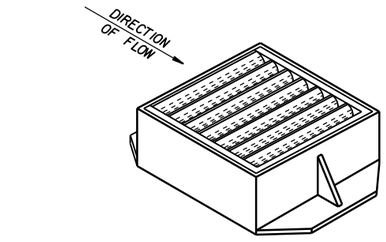
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

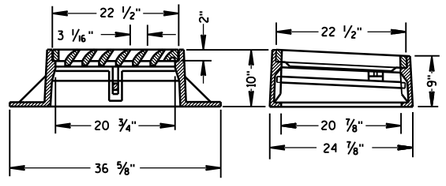
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



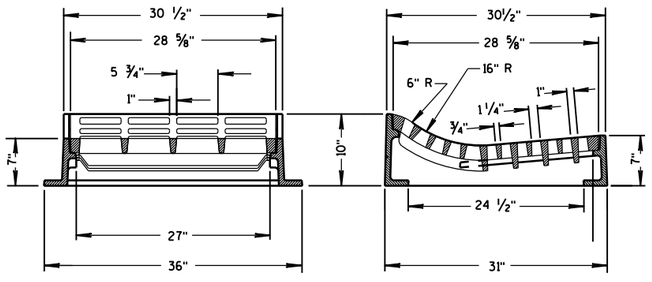


TYPE "S"



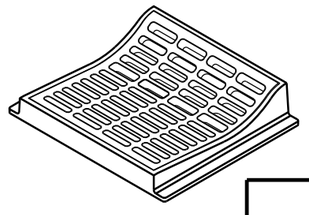


TYPE "V"



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

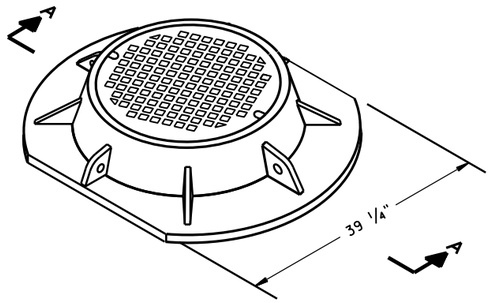
FHWA

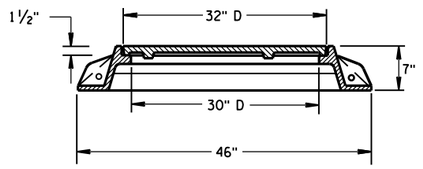
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S.D.D. 8 A 5-19c

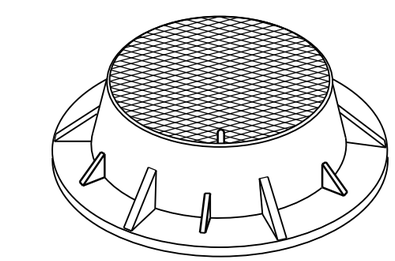
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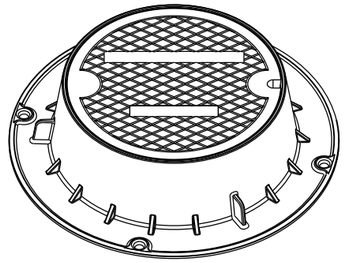
S.D.D. 8 A 5-19c

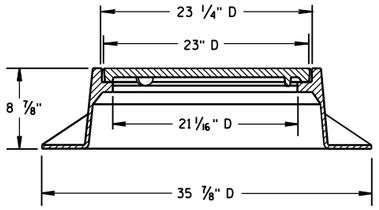


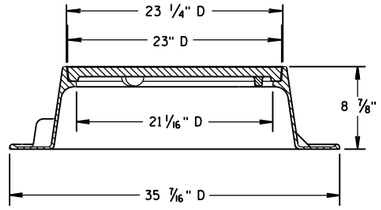


SECTION A-A
TYPE "K"









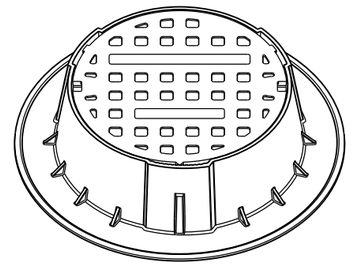
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

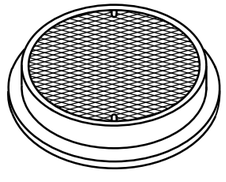
GENERAL NOTES

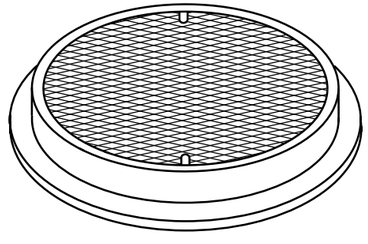
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

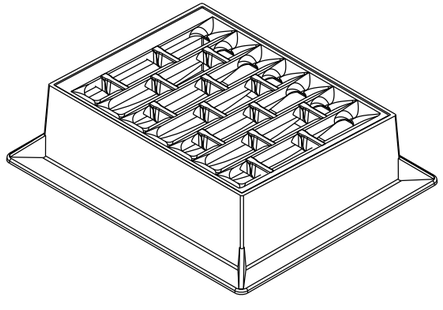
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

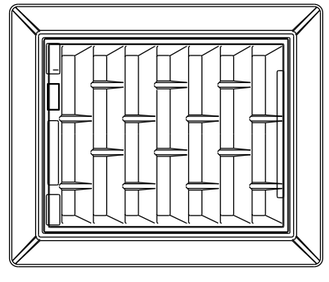
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

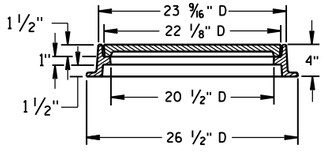




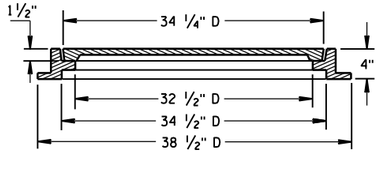




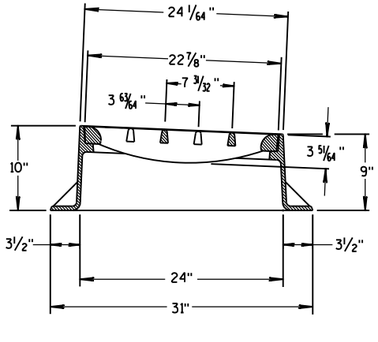


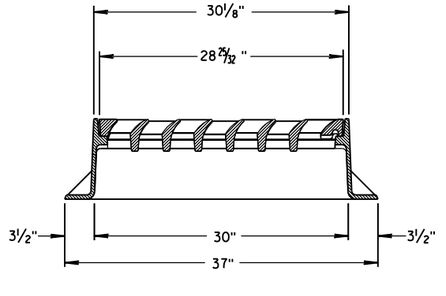


TYPE "L"

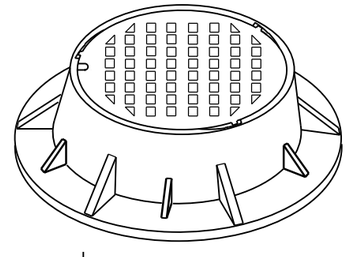


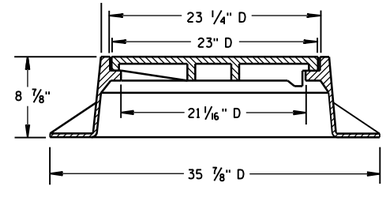
TYPE "M"





INLET COVER TYPE "BW"





TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

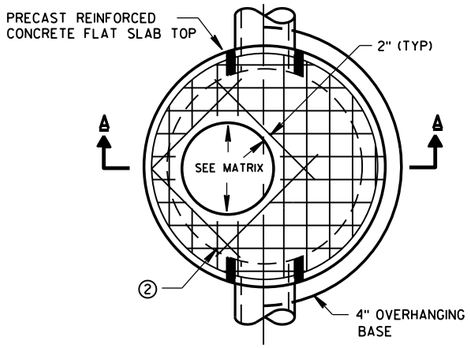
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

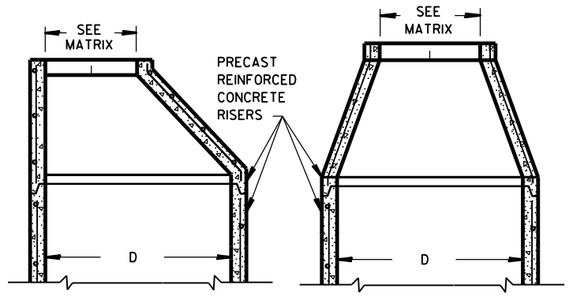
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

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

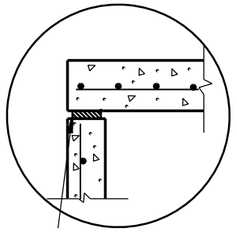


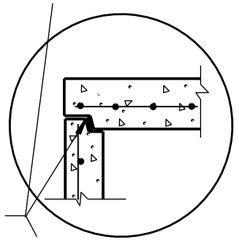
PLAN VIEW CIRCULAR OPENING

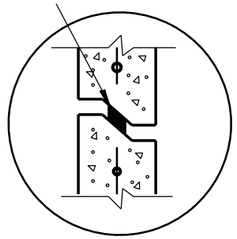


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

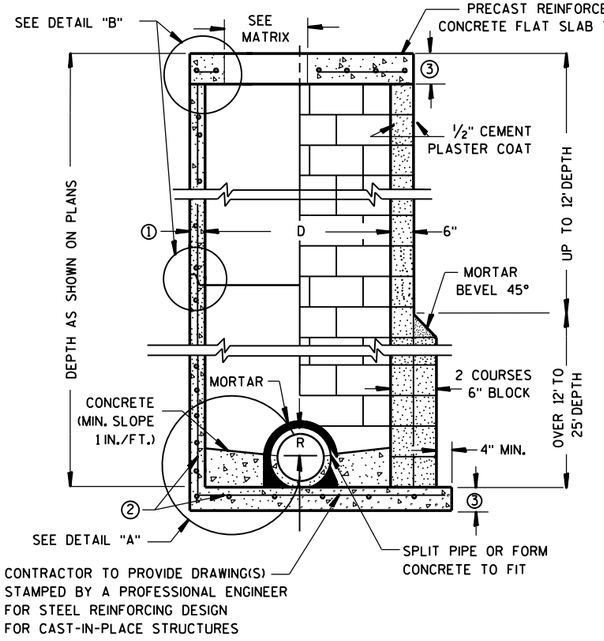
OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP





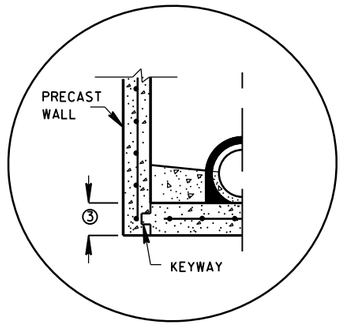


DETAIL "B"

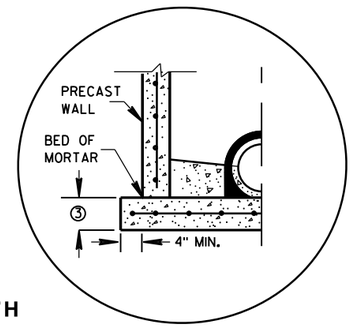


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

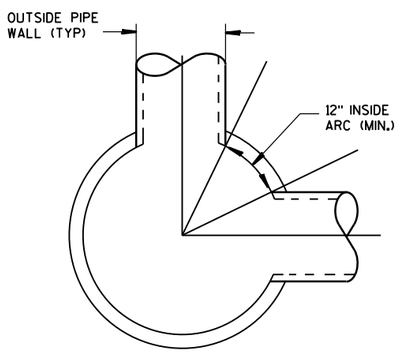


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

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

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

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

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

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

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

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

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

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

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

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

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

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

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

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

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

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

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

MANHOLE COVER OPENING MATRIX

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

PIPE MATRIX

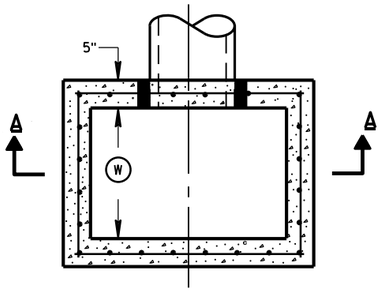
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

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

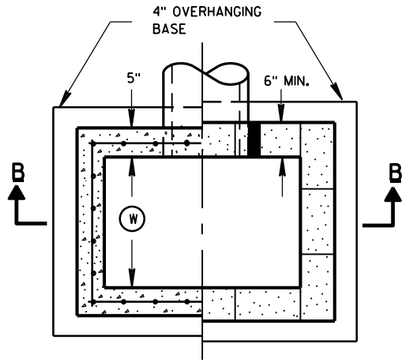
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

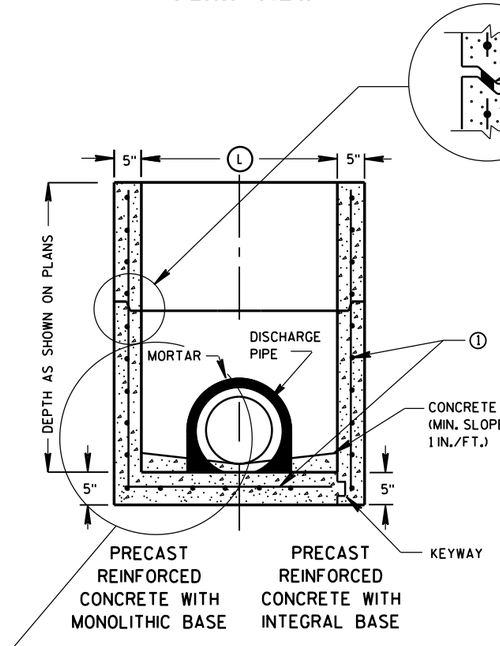
6
S.D.D. 8 B 9-1



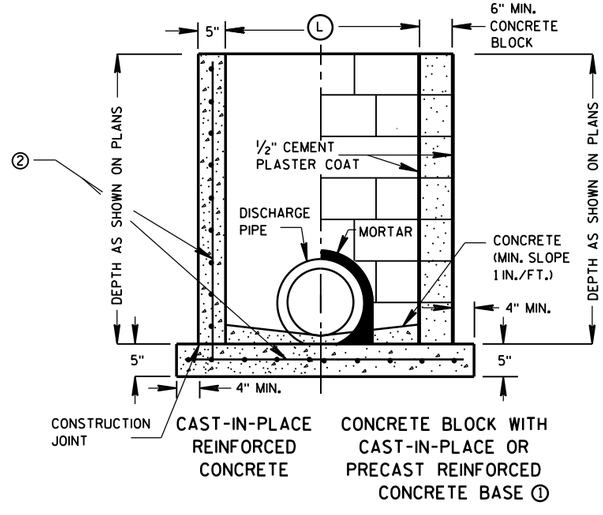
PLAN VIEW



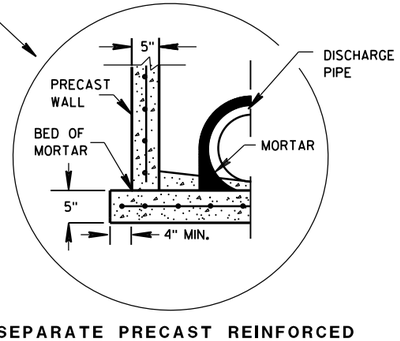
PLAN VIEW



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.

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

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

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

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

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR 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.

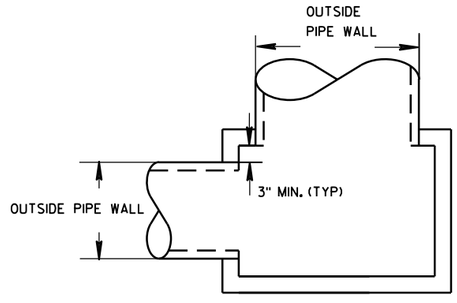
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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"

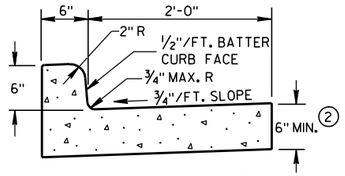
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

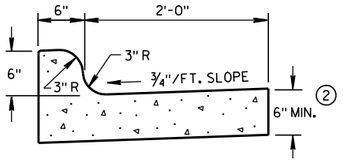
APPROVED
6/5/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DE ENGINEER
FHWA

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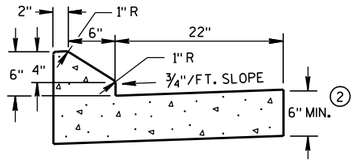
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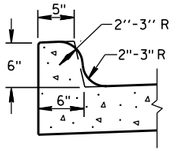
TYPES A & D (1)



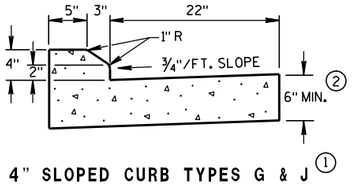
TYPES K & L (1)



6" SLOPED CURB TYPES G & J (1)

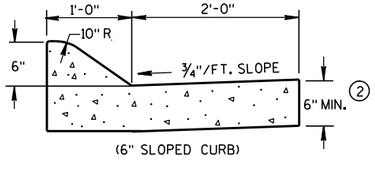


OPTIONAL CURB SHAPE FOR TYPES K & L (1)

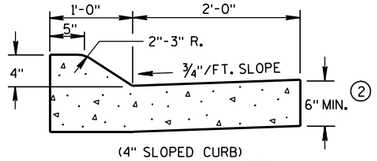


4" SLOPED CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

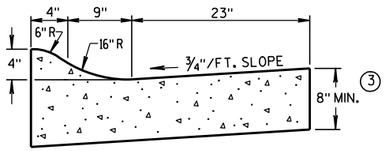


(6" SLOPED CURB)



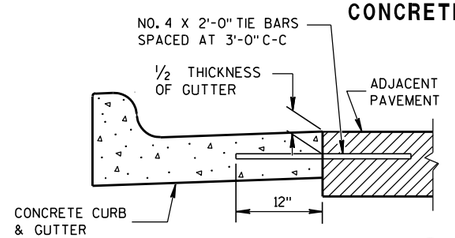
(4" SLOPED CURB)

TYPES A & D (1)

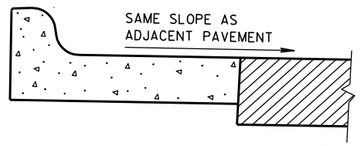


4" SLOPED CURB TYPES R & T (1) (4)

CONCRETE CURB & GUTTER 36"



TYPICAL TIE BAR LOCATION (1)



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

GENERAL NOTES

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

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

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

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

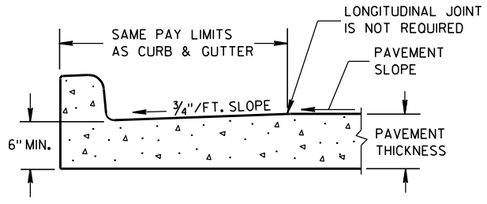
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

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

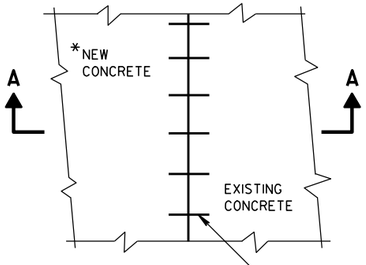
(3) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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

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

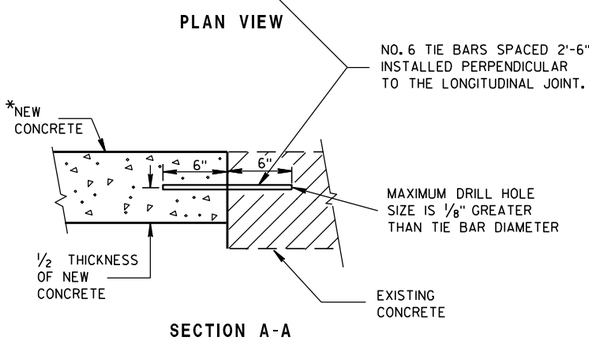


PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



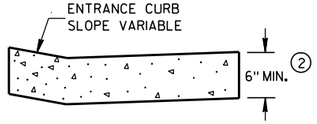
PLAN VIEW

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

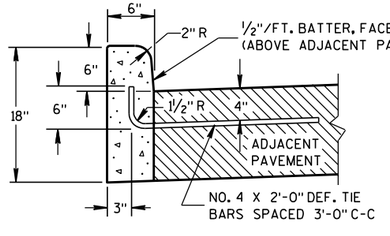


SECTION A-A

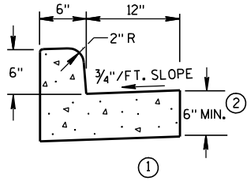
TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

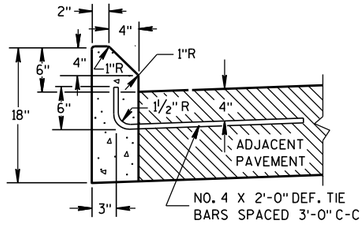


(1) TYPES A & D

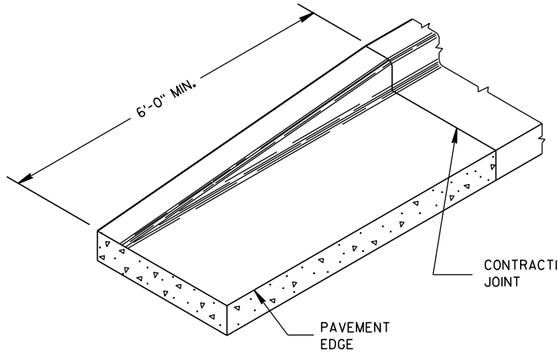


(1) TYPES A & D

CONCRETE CURB & GUTTER 18"



(1) TYPES G & J



END SECTION CURB & GUTTER

CONCRETE CURB

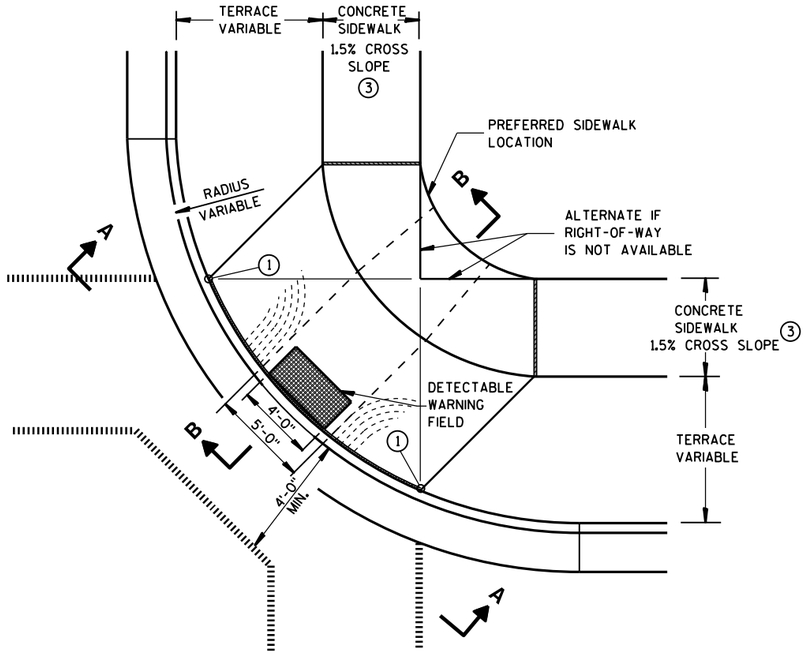
CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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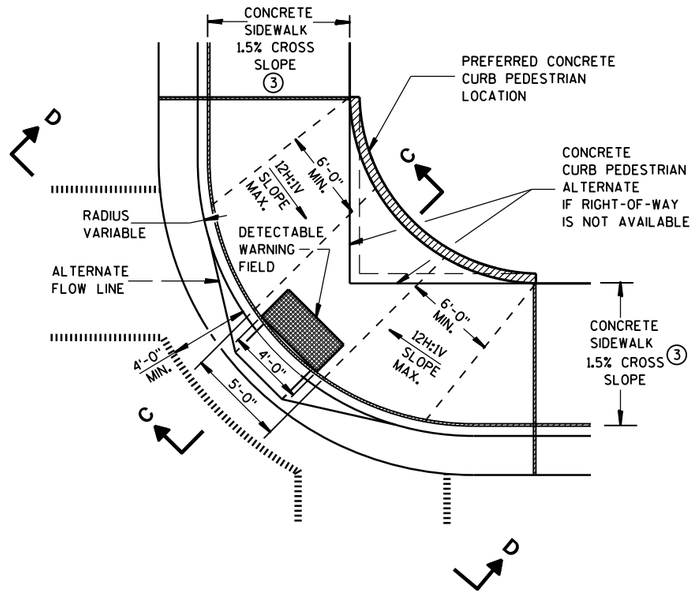
S.D.D. 8 D 1-17



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

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.

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

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

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

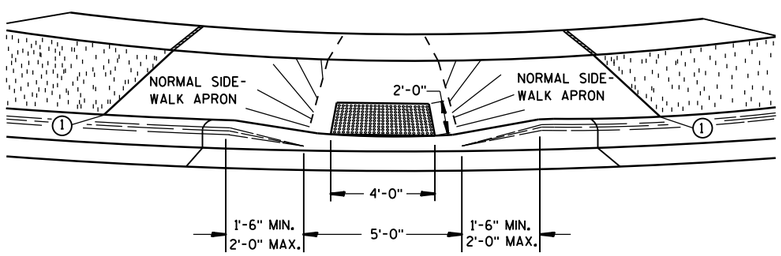
① THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.

② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

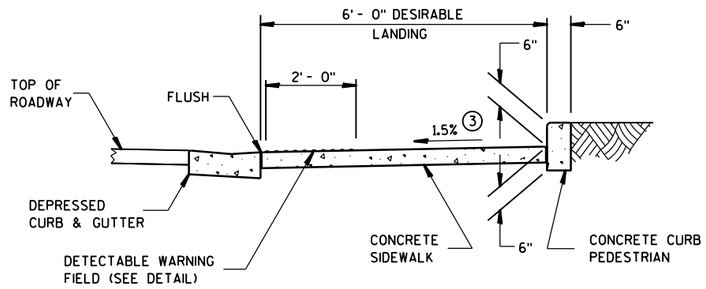
③ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

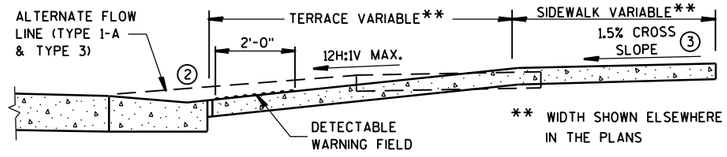
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



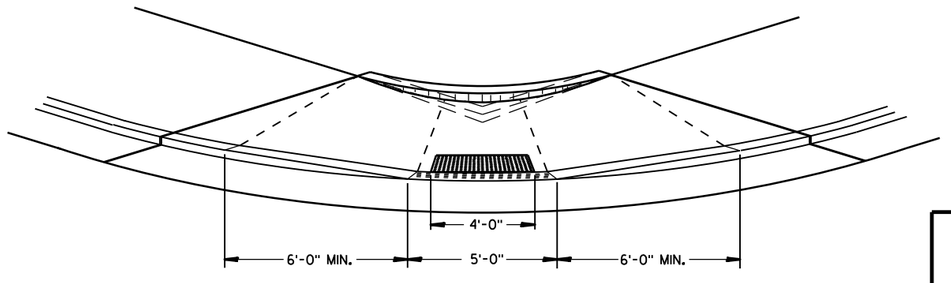
VIEW A-A



SECTION C-C



SECTION B-B



VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

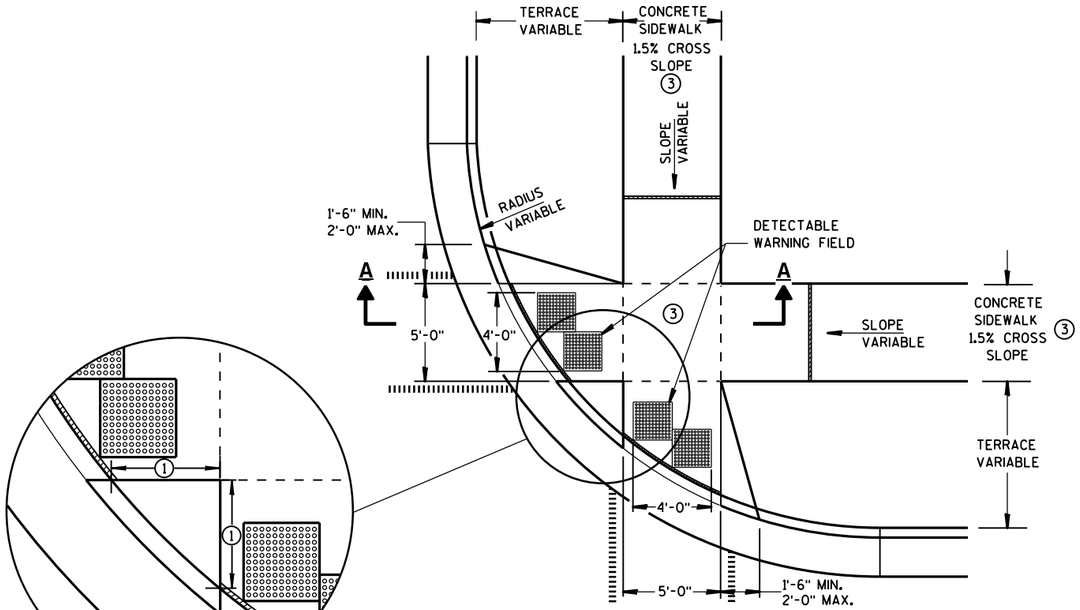
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

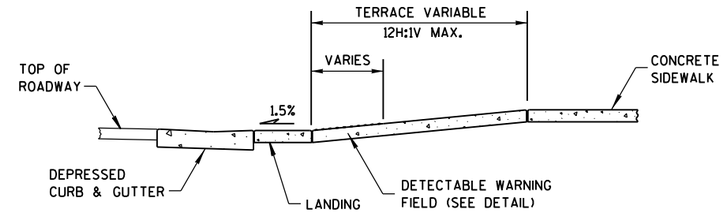
S.D.D. 8 D 5-15a

6

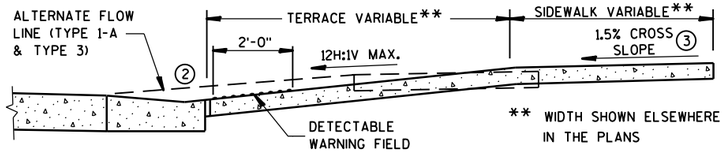
S.D.D. 8 D 5-15a



PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)



SECTION A-A



SECTION B-B

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

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

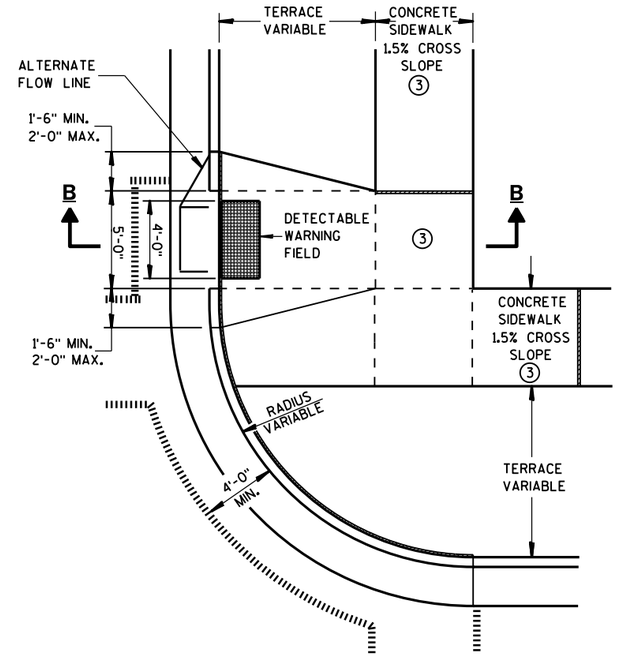
① WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.

② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

③ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

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



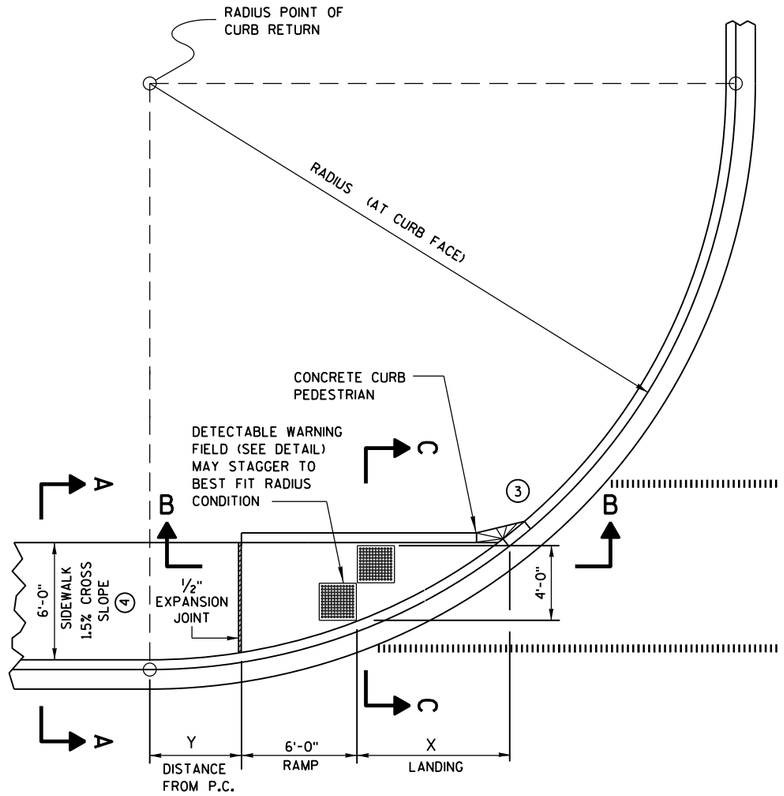
PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

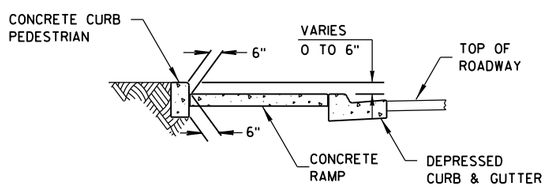
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

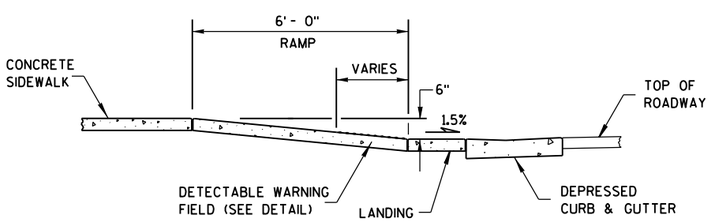
S.D.D. 8 D 5-15b



CURB RAMP TYPE 4A
PLAN VIEW



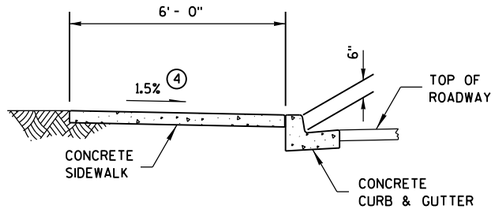
SECTION C-C FOR TYPE 4A



SECTION B-B FOR TYPE 4A

RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

GENERAL NOTES

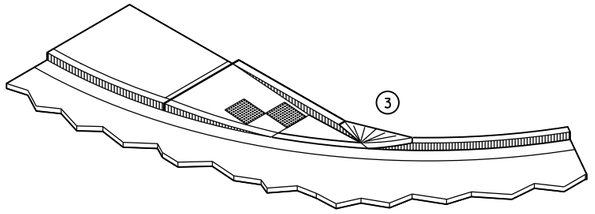
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

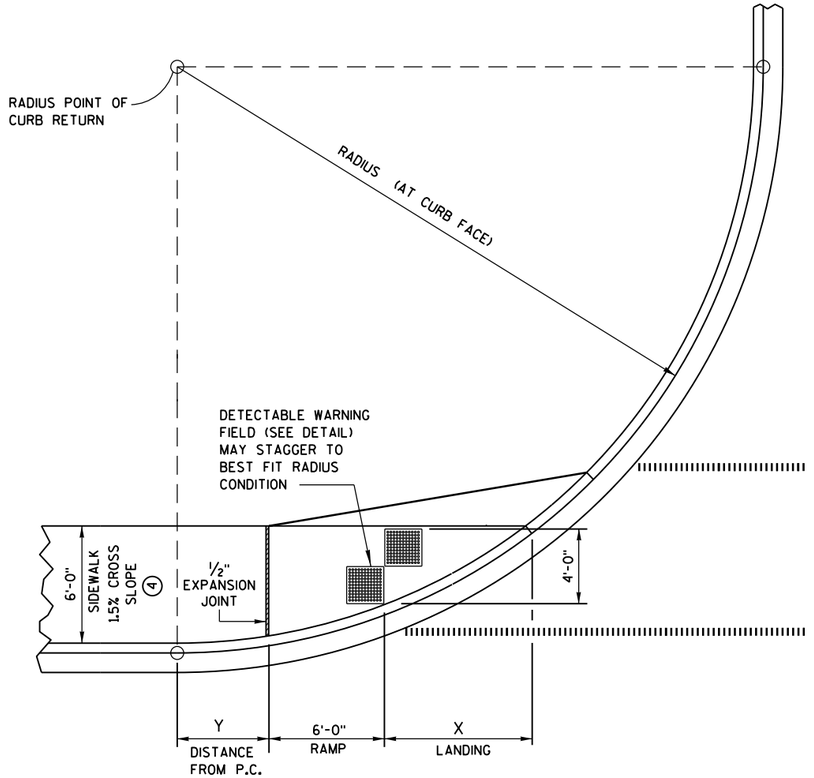
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

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

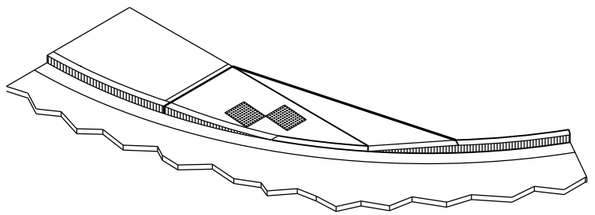
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



ISOMETRIC VIEW FOR TYPE 4A



CURB RAMP TYPE 4A1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

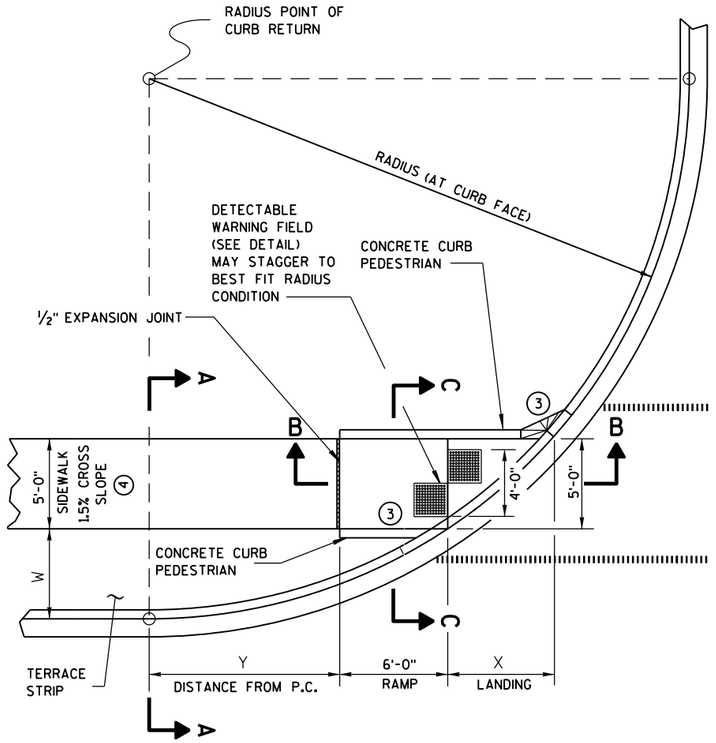
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

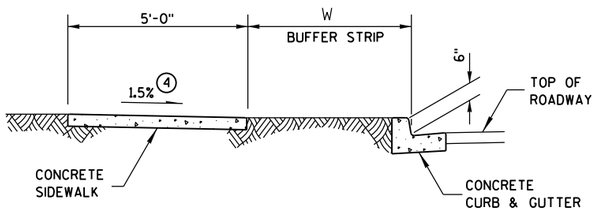
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

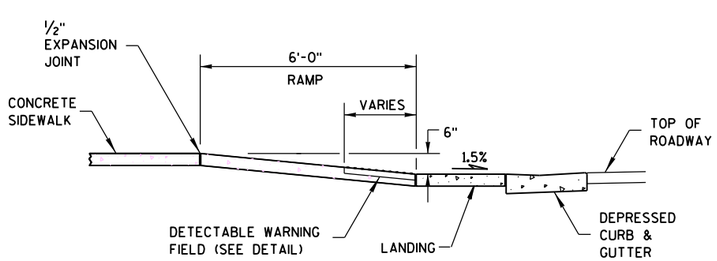
S.D.D. 8 D 5-15c



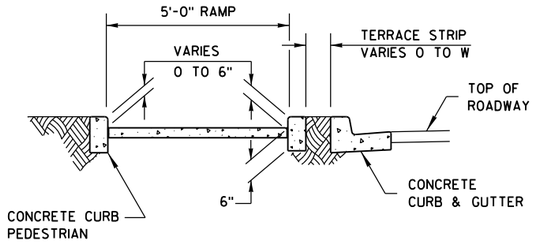
CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



SECTION B-B FOR TYPE 4B



SECTION C-C FOR TYPE 4B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-5½"	4'-6½"	4'-8½"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-3½"	3'-1½"	9'-2½"
30 FEET	7'-3¾"	7'-1"	6'-5½"	8'-11½"	5'-9¼"	10'-7"	5'-2½"	12'-0"	4'-8¾"	13'-3¼"
40 FEET	8'-9½"	9'-2½"	7'-10"	11'-5¼"	7'-1"	13'-4½"	6'-5¾"	15'-¾"	5'-11½"	16'-7¼"
50 FEET	10'-¾"	11'-¾"	9'-¼"	13'-7¼"	8'-2½"	15'-9½"	7'-6½"	17'-9"	6'-11¾"	19'-6¼"
60 FEET	11'-2½"	12'-8¾"	10'-¾"	15'-6½"	9'-2¼"	17'-11¾"	8'-5¾"	20'-1¾"	7'-10½"	22'-1½"

INTERMEDIATE RADII CAN BE INTERPOLATED

GENERAL NOTES

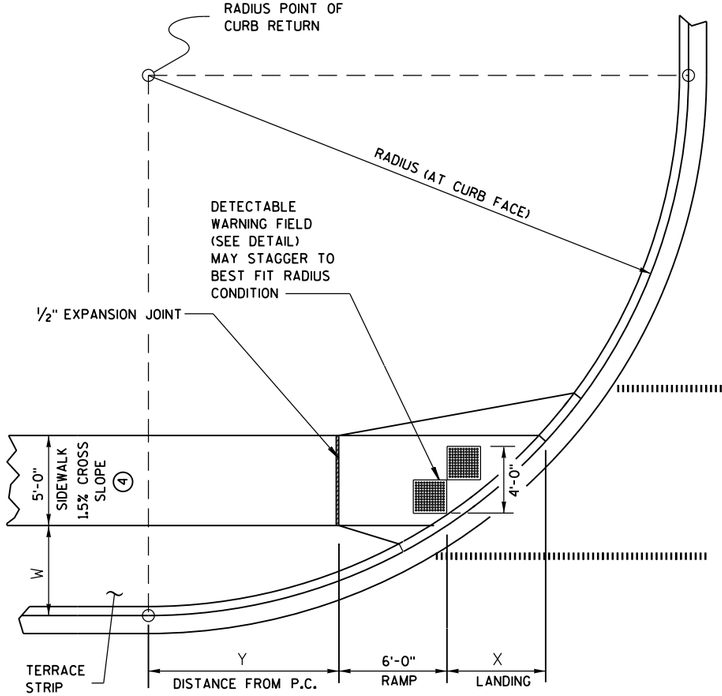
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

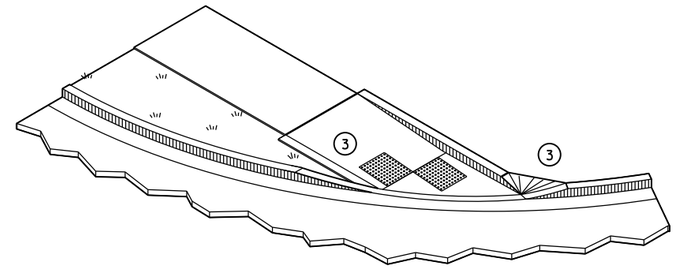
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

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

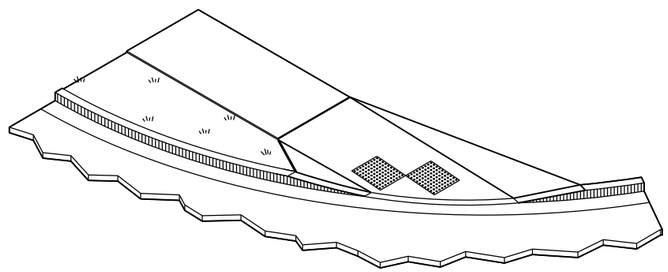
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



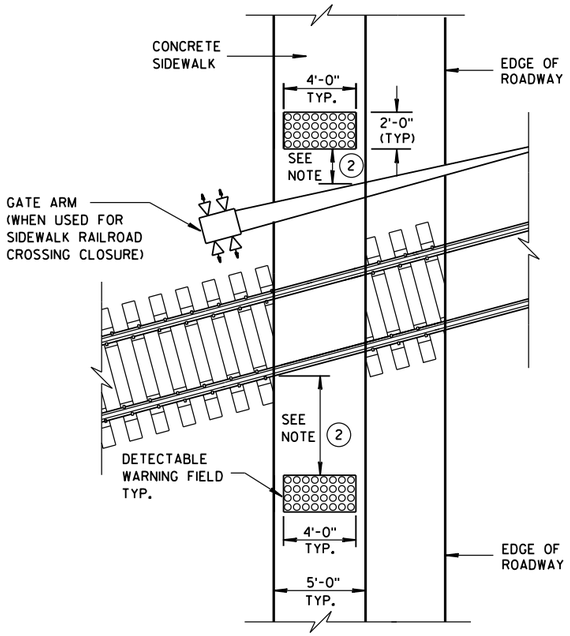
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

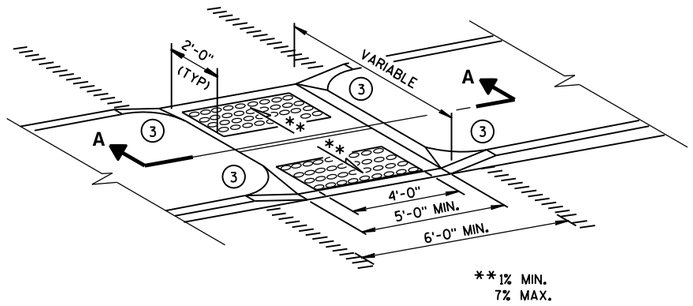
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-15d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

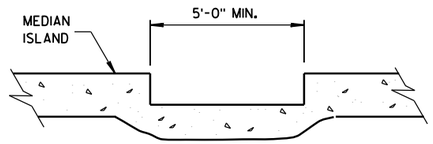
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

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

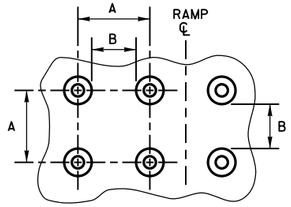
(2) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET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

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

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



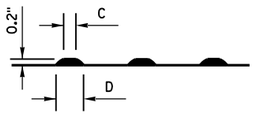
SECTION A-A



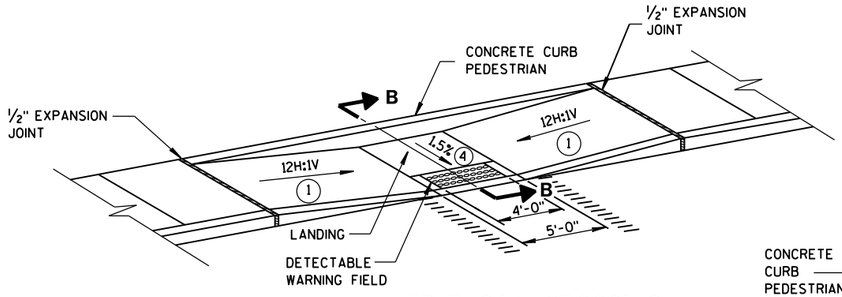
PLAN VIEW

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

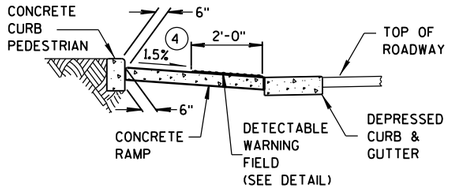
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



ELEVATION VIEW

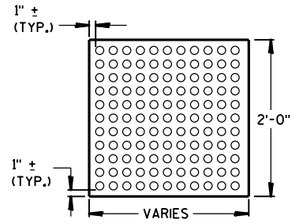


MID-BLOCK CROSSING
TYPE 7A



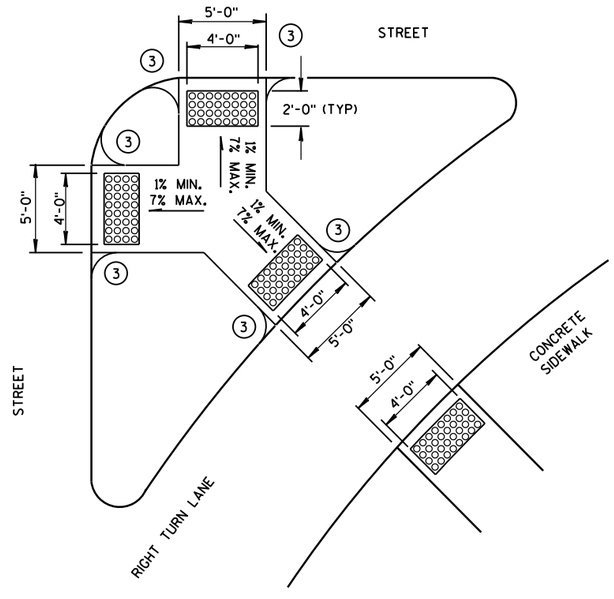
SECTION B-B

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

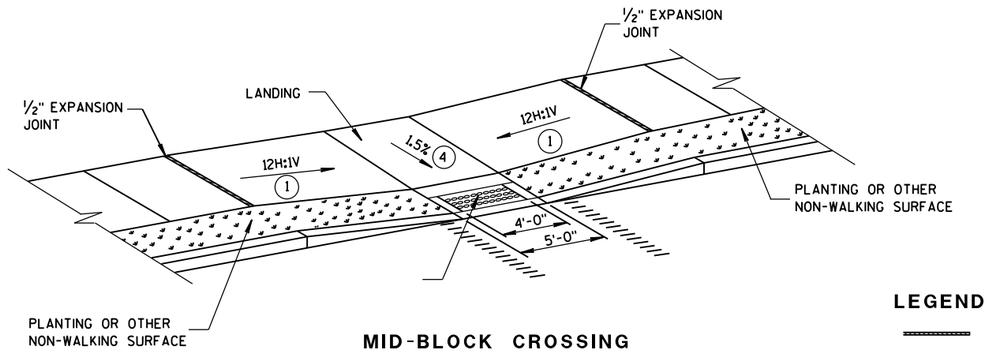


PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

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

LEGEND

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

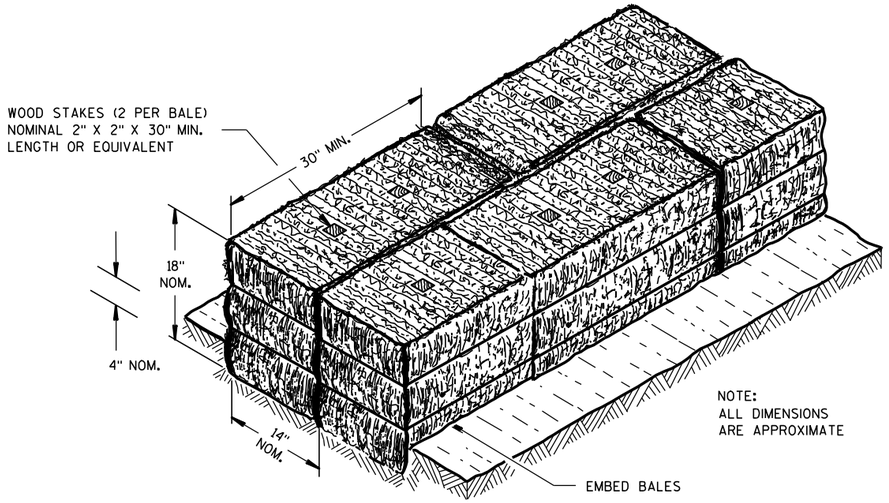
CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

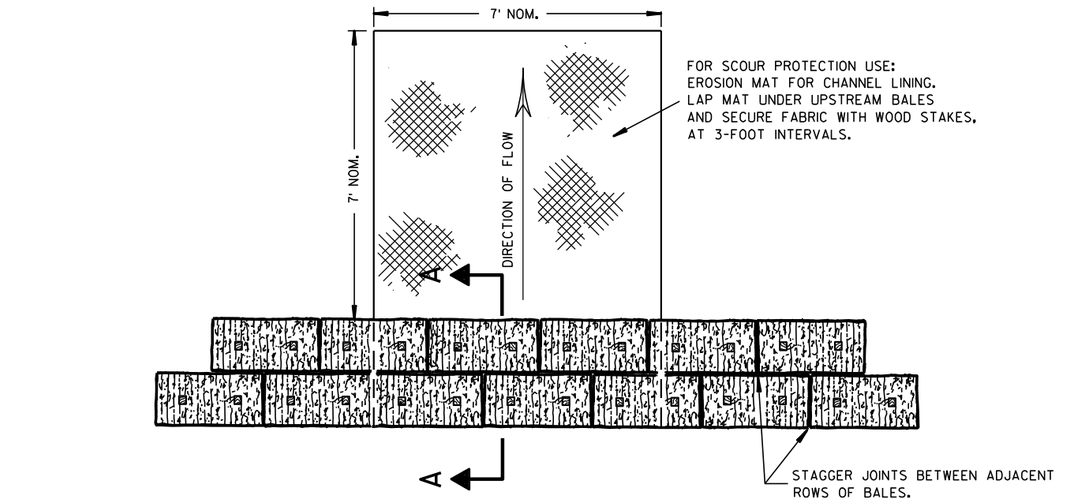
APPROVED
2-6-2013 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

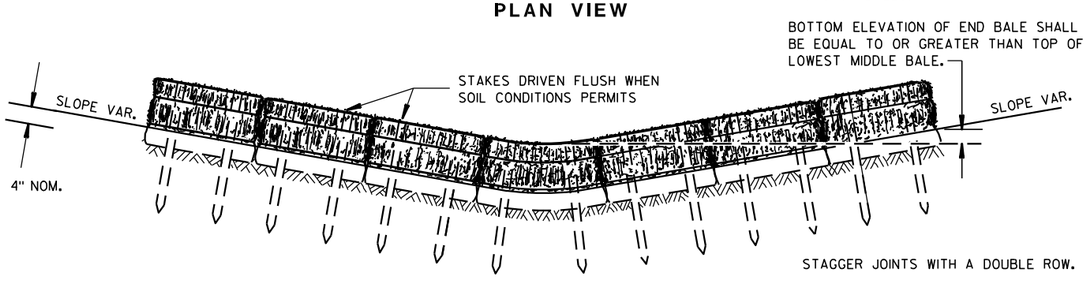
S.D.D. 8 D 5-15e



SECTION A-A



PLAN VIEW



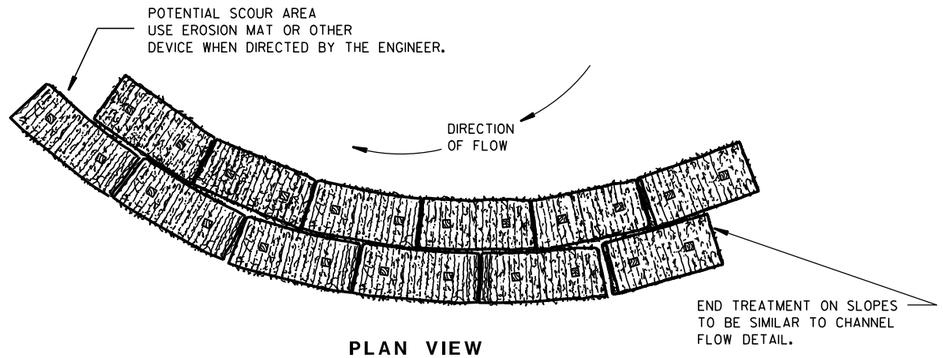
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

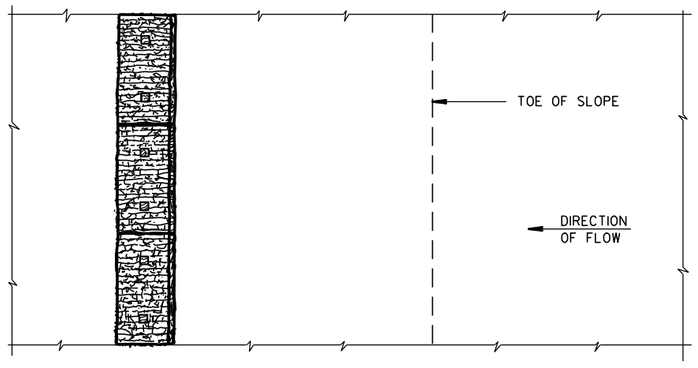
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

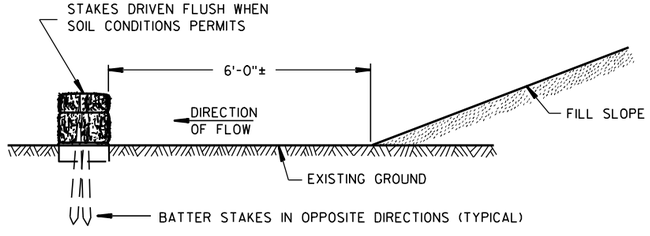


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

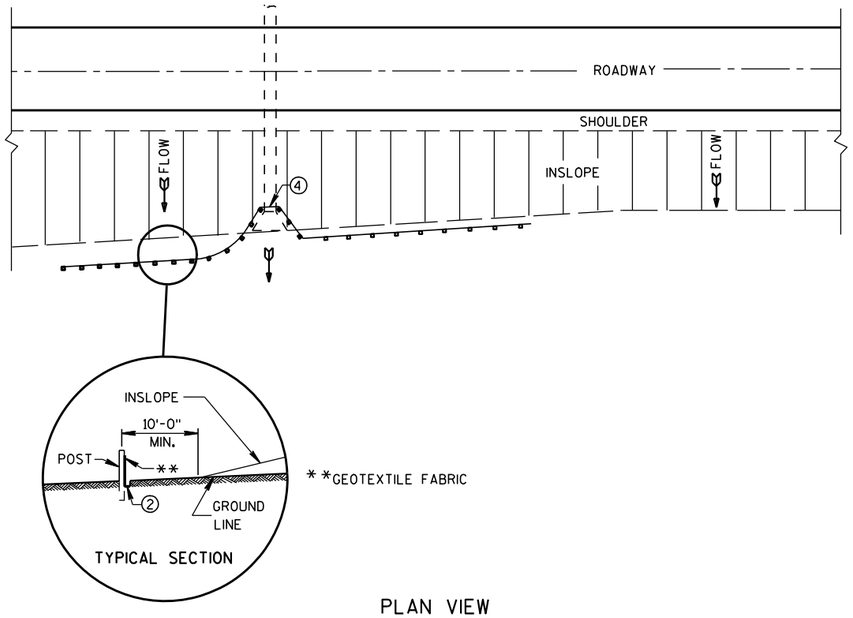
EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

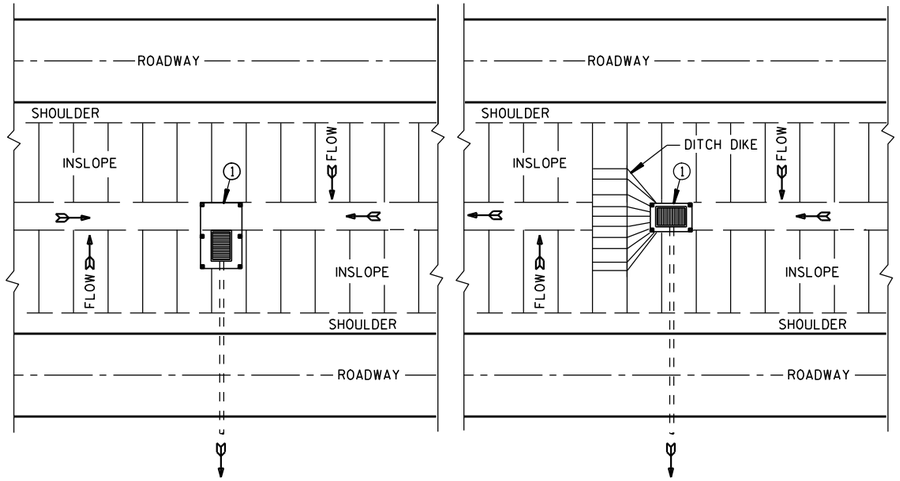
APPROVED
6/04/02 DATE
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



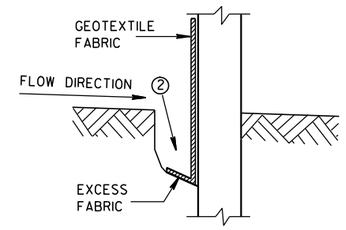
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

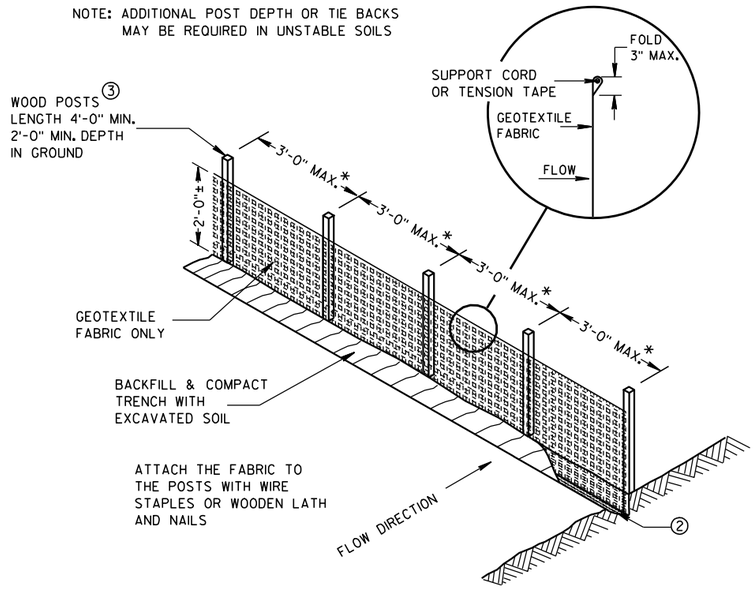
GENERAL NOTES

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

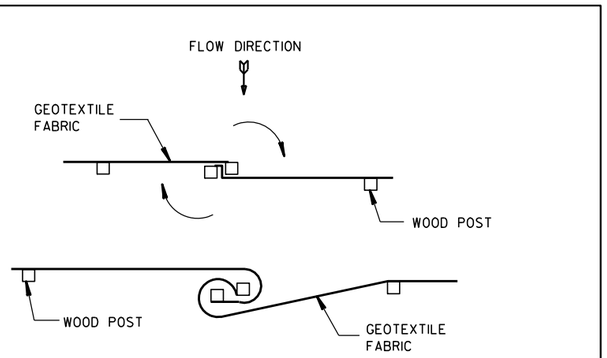
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL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



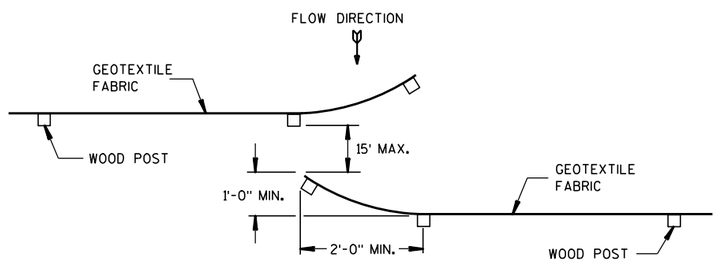
TRENCH DETAIL



SILT FENCE

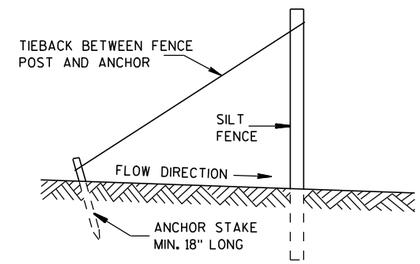


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

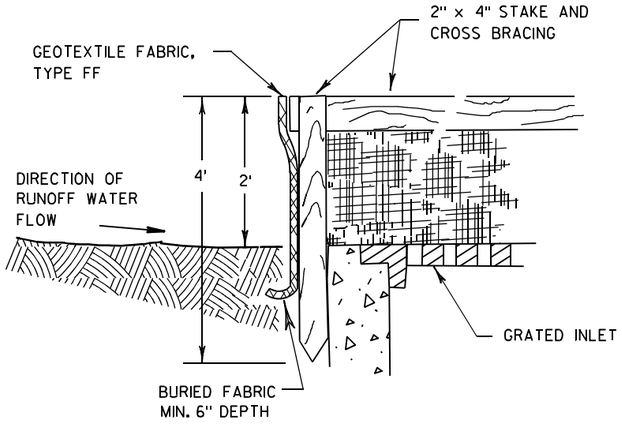
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

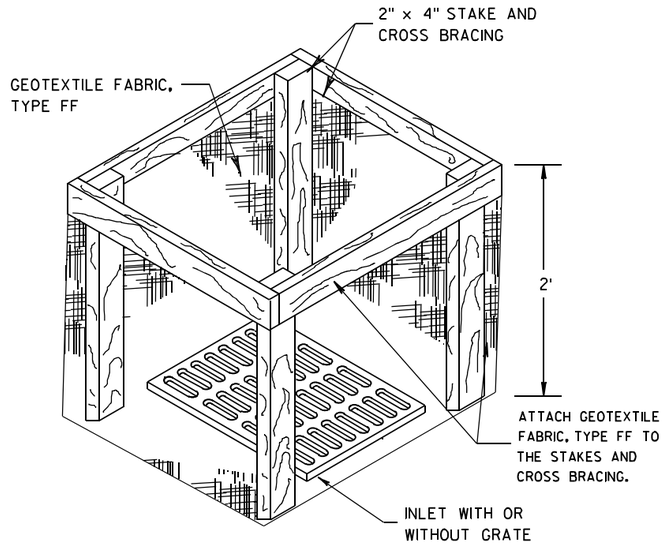
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S.D.D. 8 E 9-6

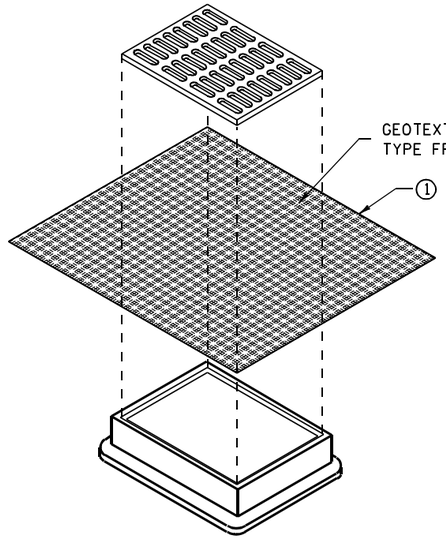
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S.D.D. 8 E 9-6



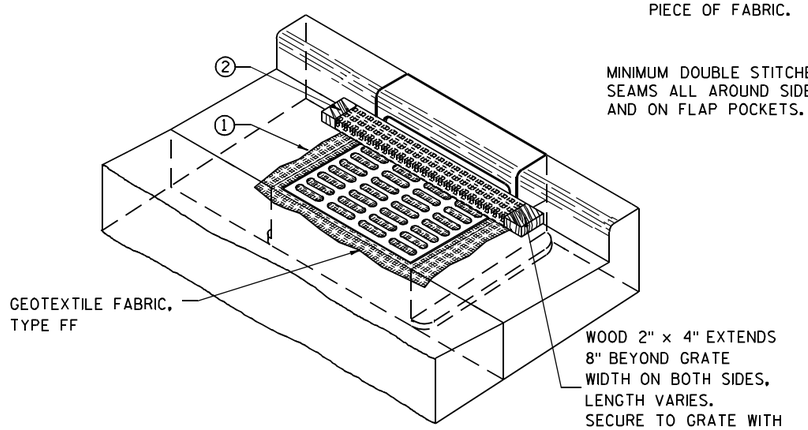


INLET PROTECTION, TYPE A

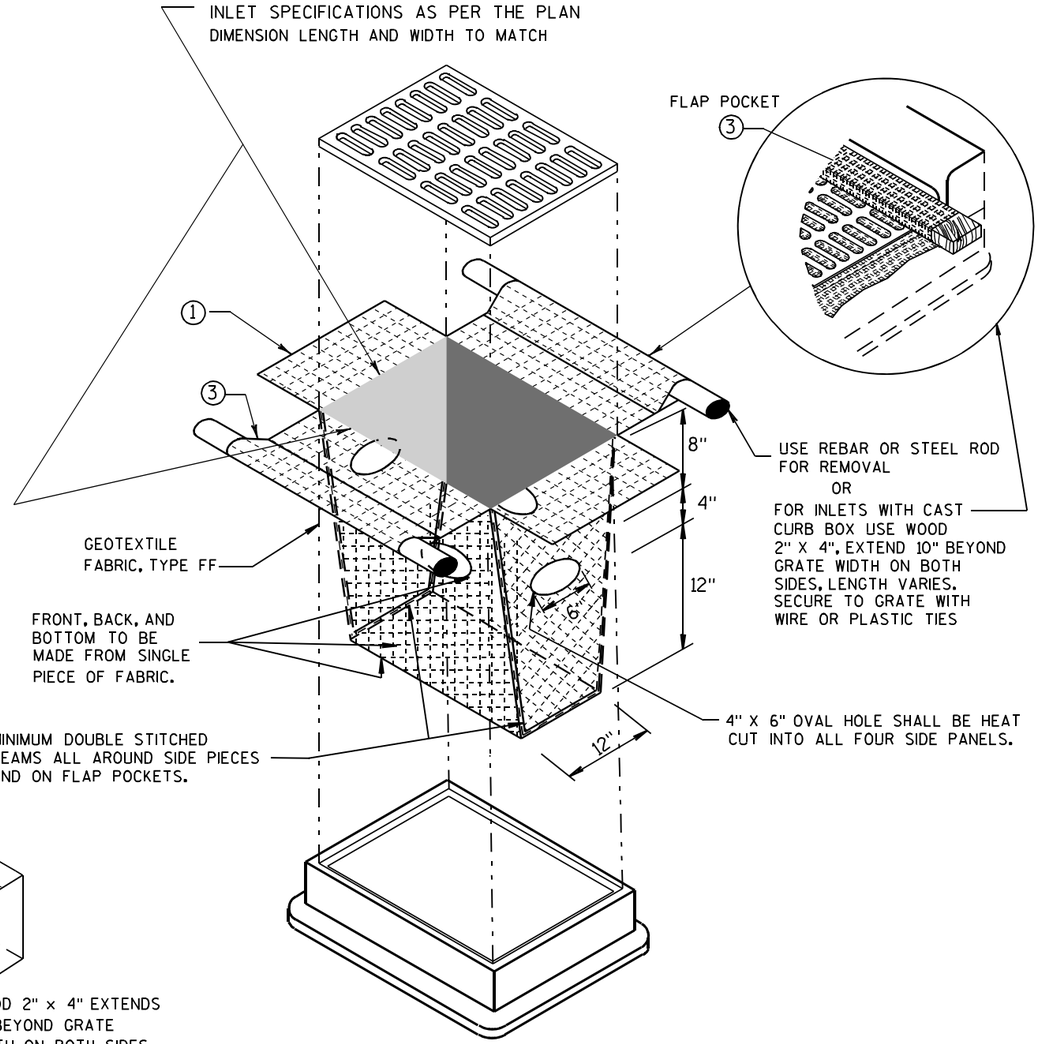


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

GENERAL NOTES

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

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

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

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

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

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

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

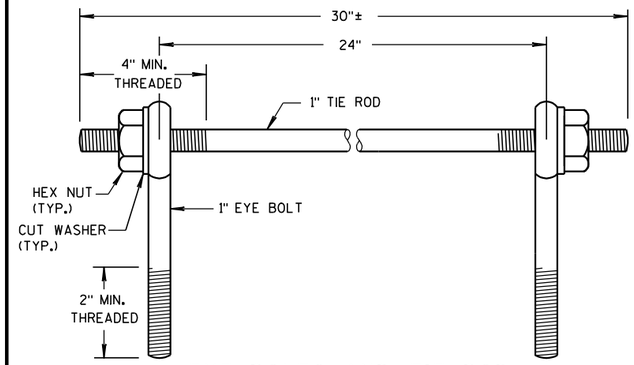
APPROVED

10/16/02
DATE

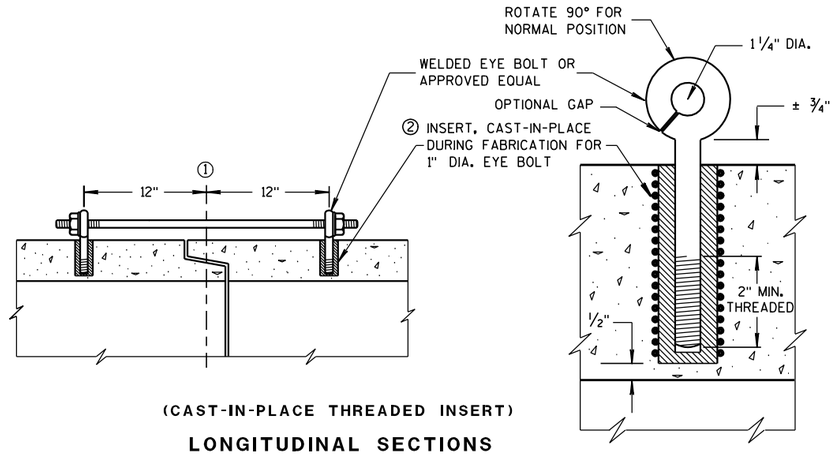
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

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



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

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

GENERAL NOTES

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

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

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

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

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

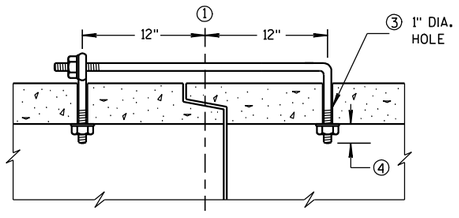
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

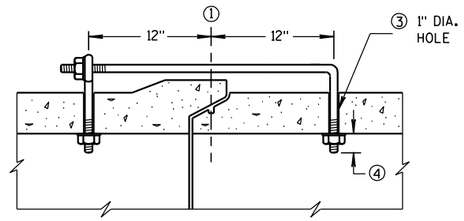
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

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



(TONGUE & GROOVE PIPE)

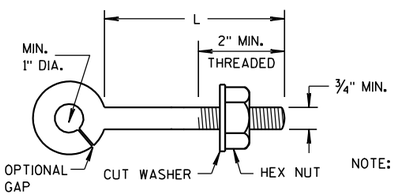


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

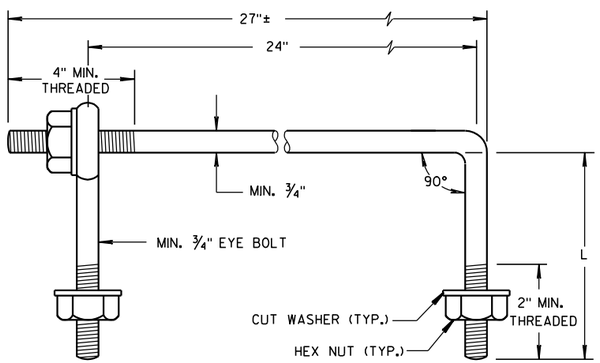
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

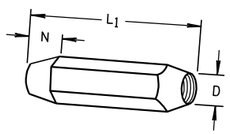
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

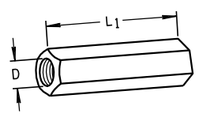
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



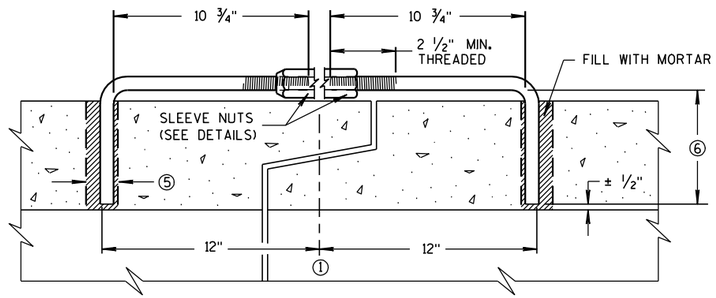
TAPERED



PLAIN

RIGHT AND LEFT THREADS

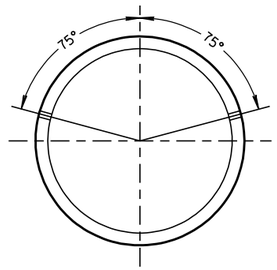
SLEEVE NUTS



LONGITUDINAL SECTION

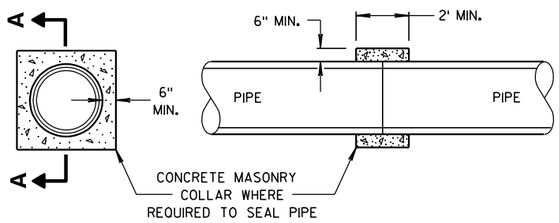
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

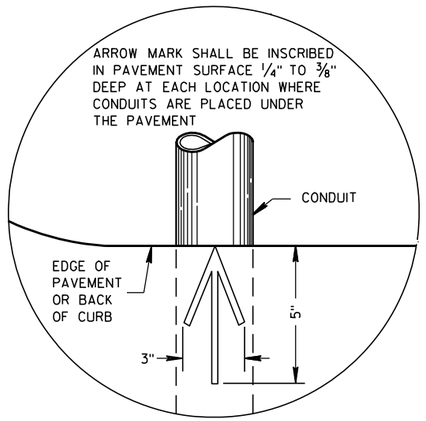
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
79
FHWA

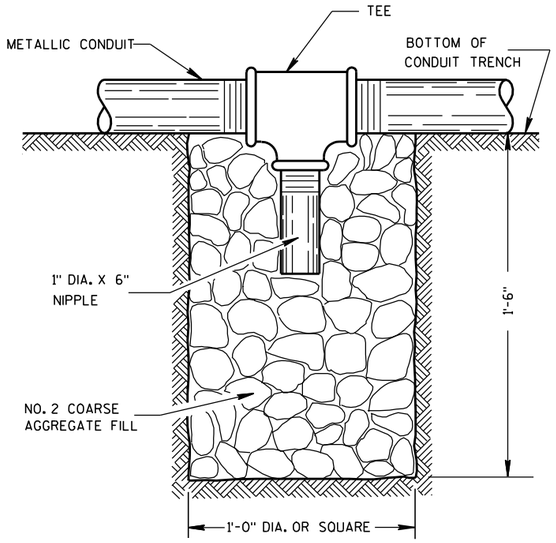
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S.D.D. 8 F 4-7



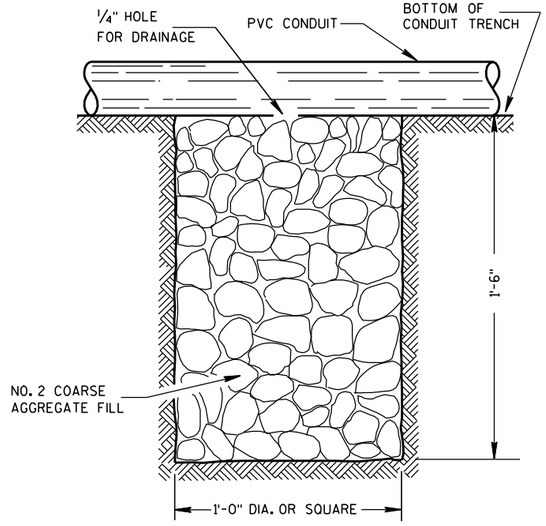
PLAN VIEW

ARROW MARK



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

DRAIN SUMP FOR METALLIC CONDUIT



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

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

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

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

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

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

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

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

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

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

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

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

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

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

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

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

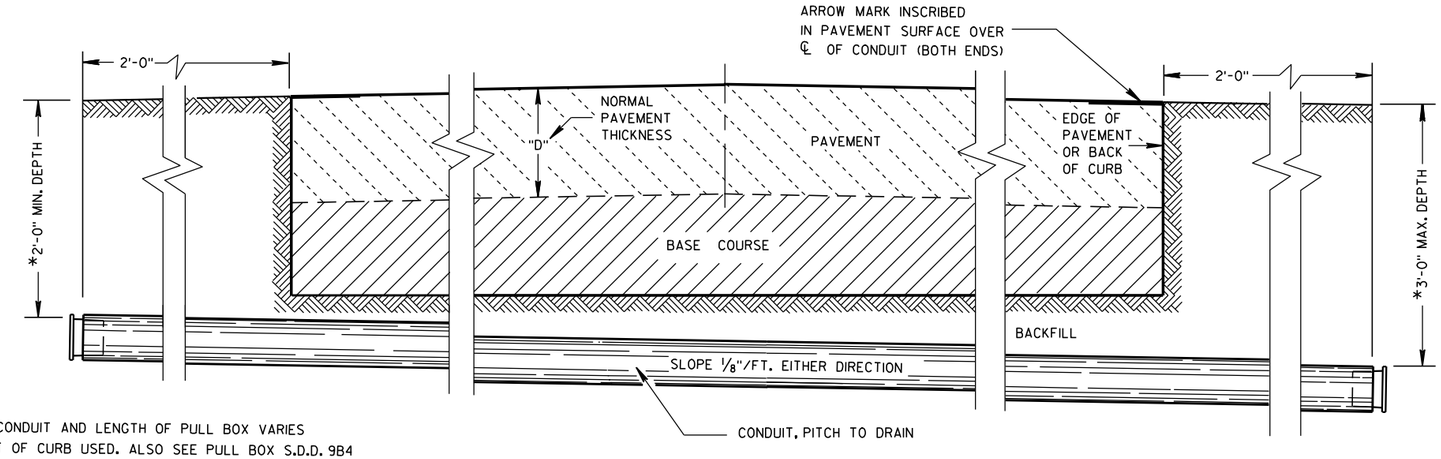
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

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

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

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

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



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

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/23/03 — DATE

/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGI 80 HWYS

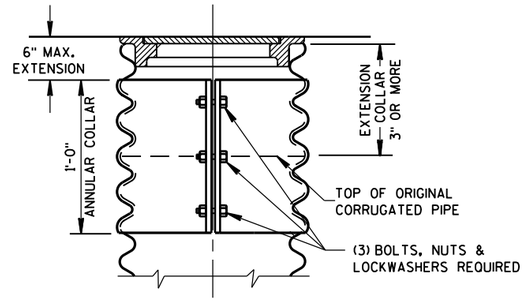
FHWA

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

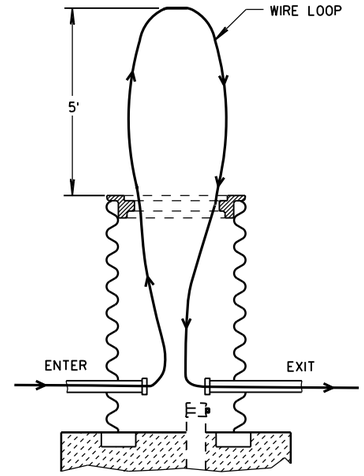
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2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

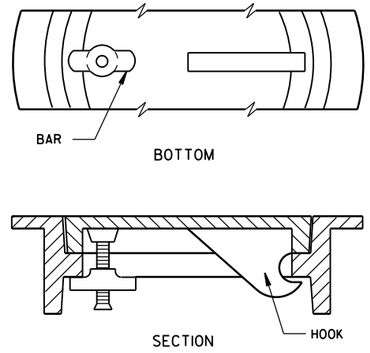
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

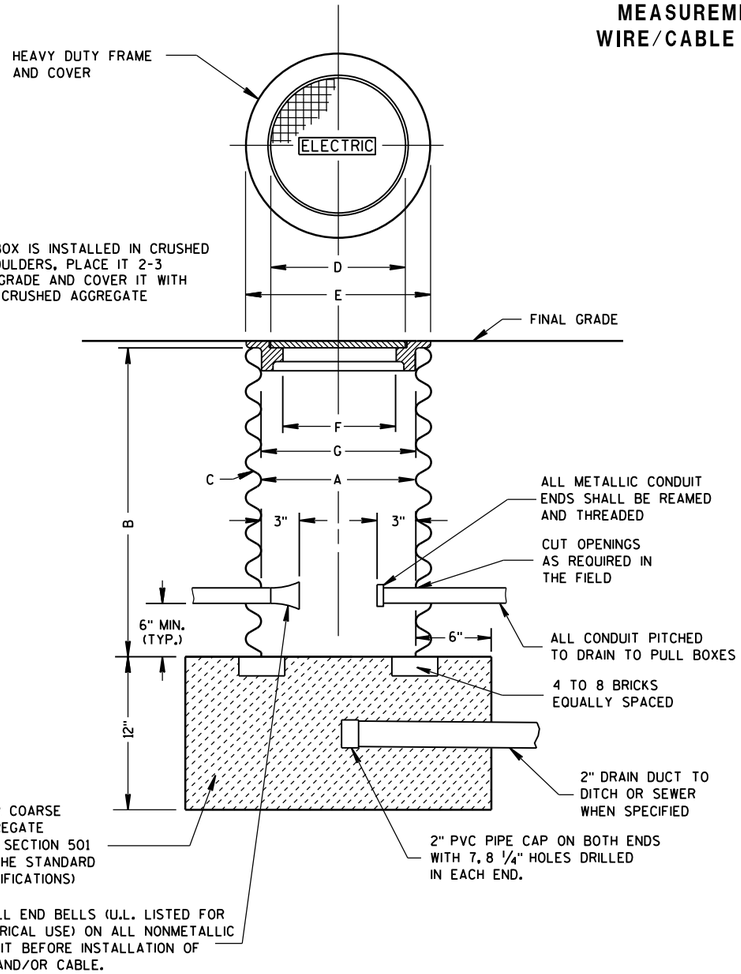


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



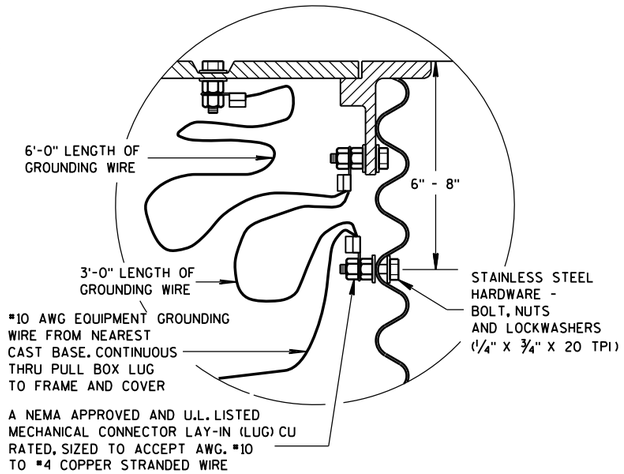
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

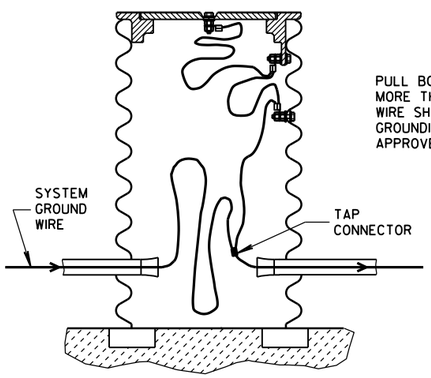


WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



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

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.

GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

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

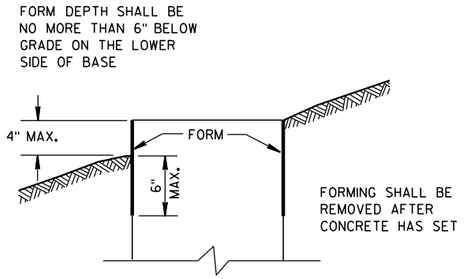
S.D.D. 9B2, "CONDUIT", APPLIES TO THIS DRAWING.

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	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
2-7-2013 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL
FHWA	

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S.D.D. 9 B 4-10



FORMING DETAIL

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

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

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

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

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

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

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

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

GENERAL NOTES (CONTINUED)

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

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

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

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

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

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

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

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

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

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

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

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

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

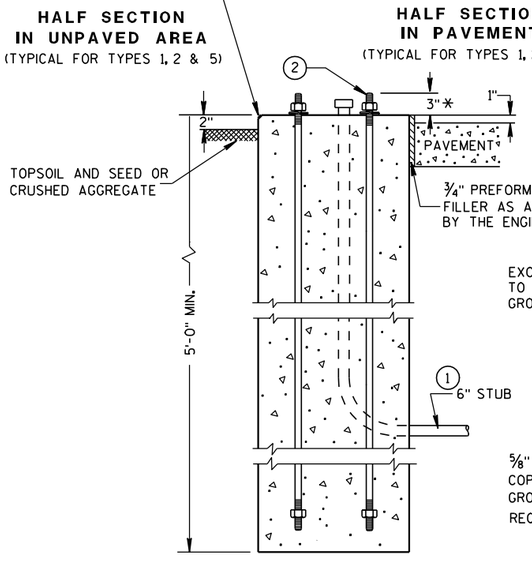
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

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

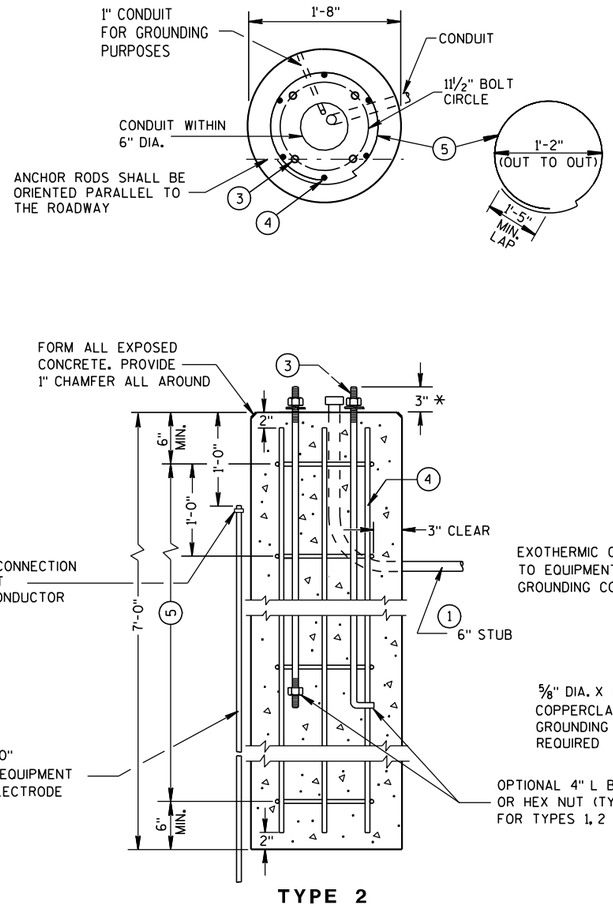
(6) (4) I" DIA. X 3'-6" ANCHOR RODS.

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

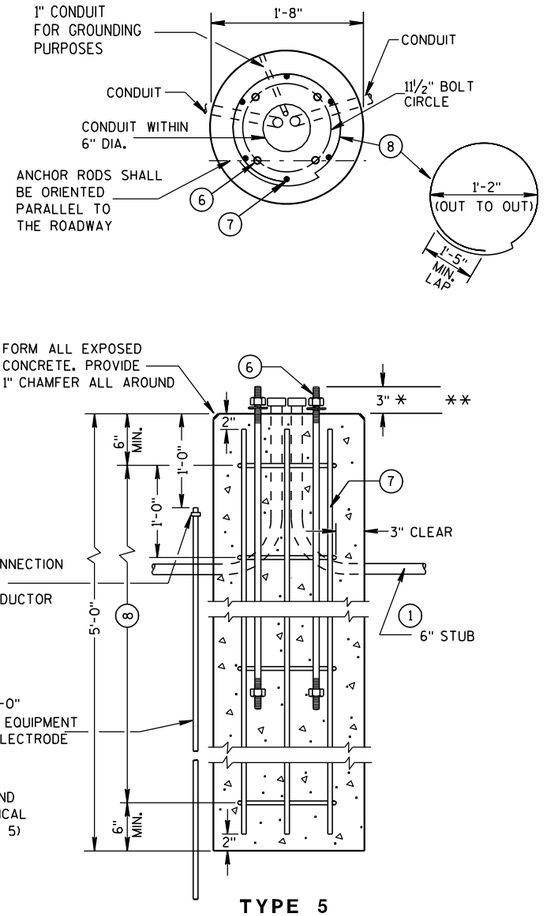
(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.



TYPE 1



TYPE 2



TYPE 5

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2 & 5

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/3/10 — DATE
/S/ Joanna L. Rush — STATE ELECTRICAL ENGI
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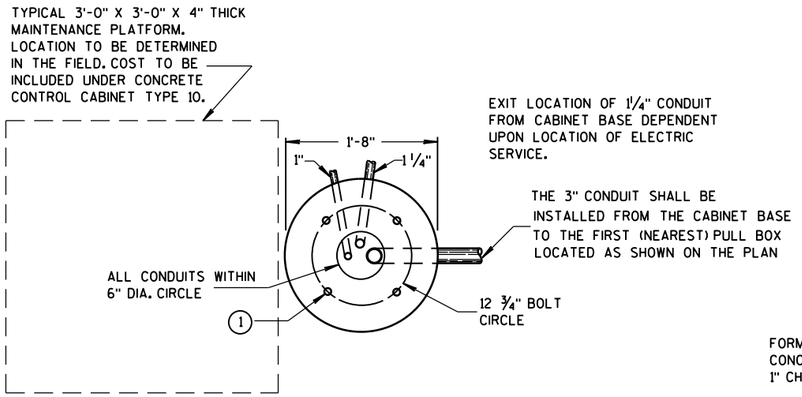
S.D.D. 9 C 2-6

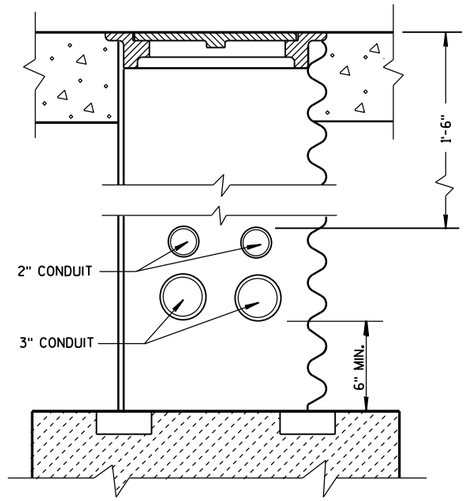
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S.D.D. 9 C 2-6

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

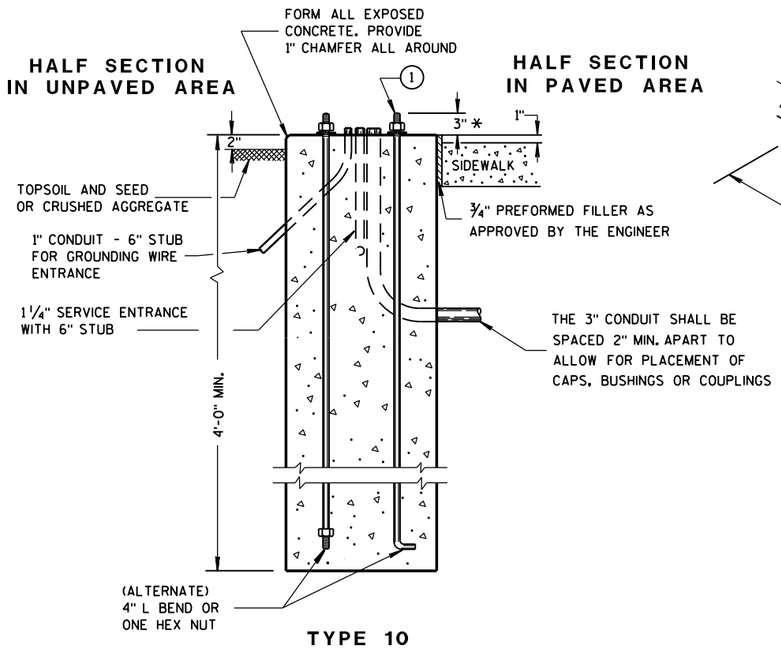
* INCLUDES MAINTENANCE PLATFORM.



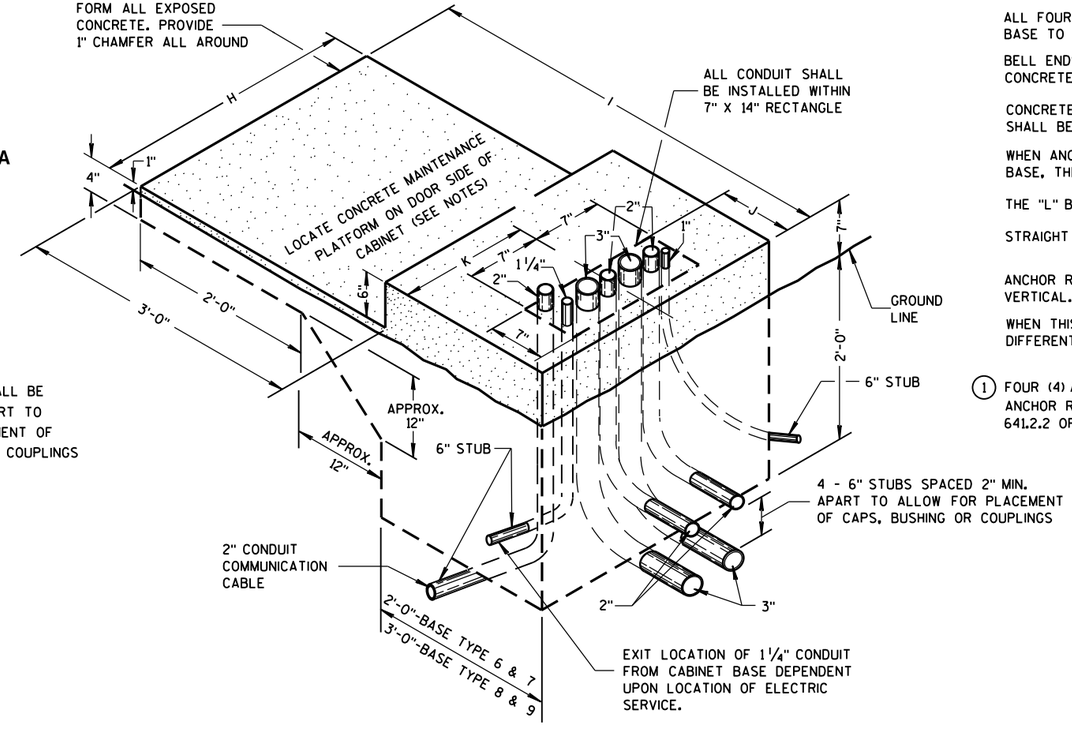


CONDUIT LOCATIONS IN 24" X 36" PULL BOX

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



TYPE 10



TYPE 6,7,8 AND 9
(ISOMETRIC VIEW)

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

GENERAL NOTES

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

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS 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.

WHEN THIS DRAWING IS USED FOR STREET LIGHTING CABINET BASES, CONDUIT MAY BE DIFFERENT AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

(1) FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6"
ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS.

CONCRETE CONTROL CABINET BASES

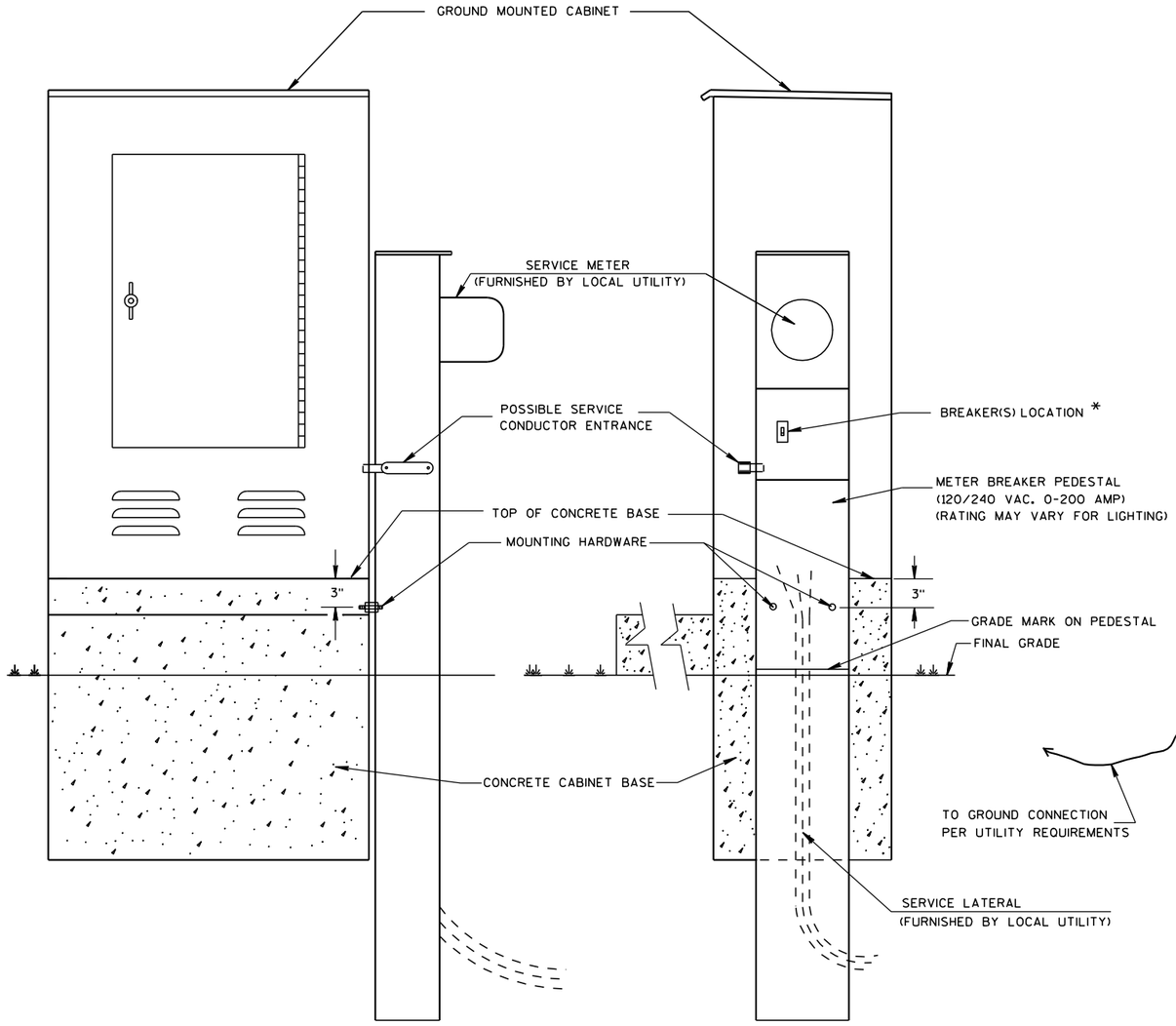
CONCRETE CONTROL CABINET BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/26/2013 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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S.D.D. 9 C 5-8



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.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/27/09 DATE

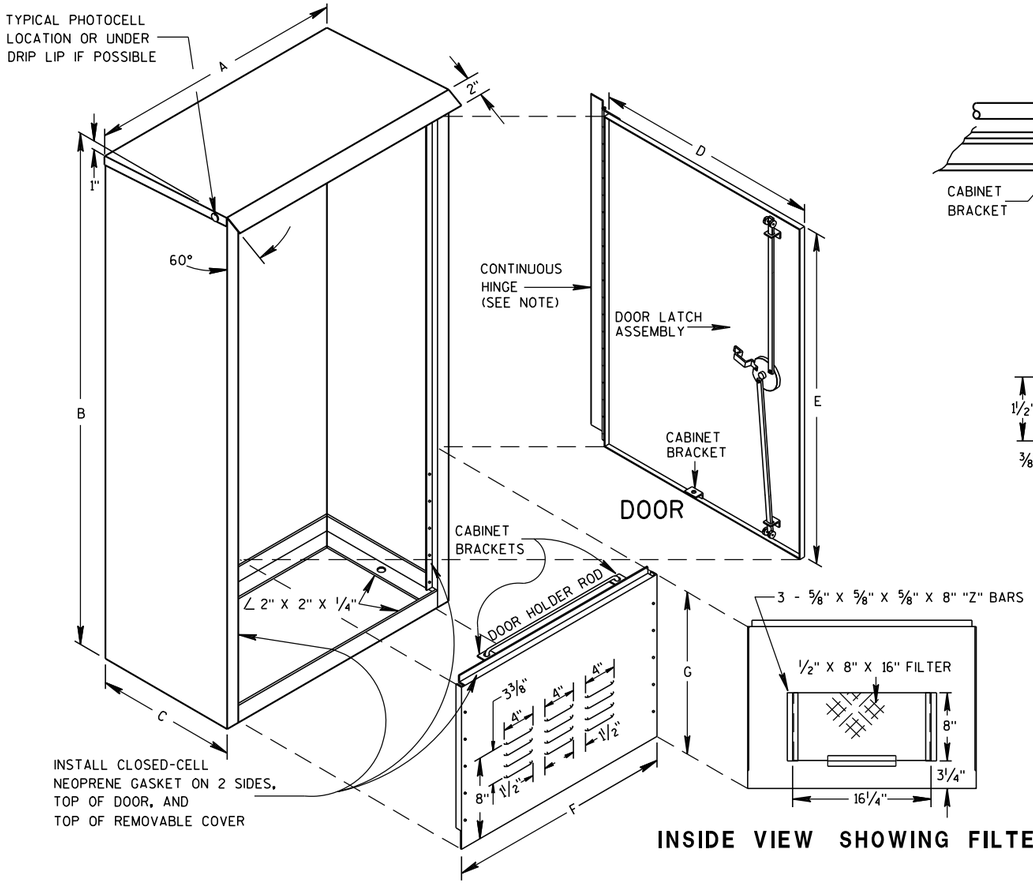
/S/ Joanna L. Bush
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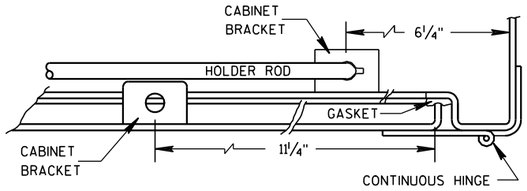
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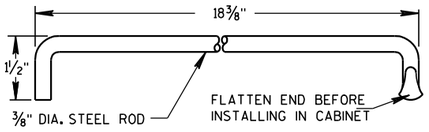


REMOVABLE COVER

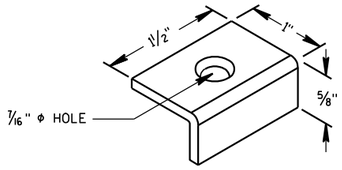
INSIDE VIEW SHOWING FILTER



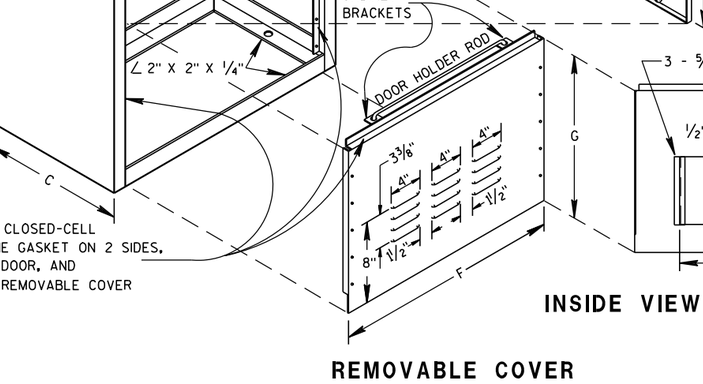
HINGE & DOOR HOLDER



HOLDER ROD



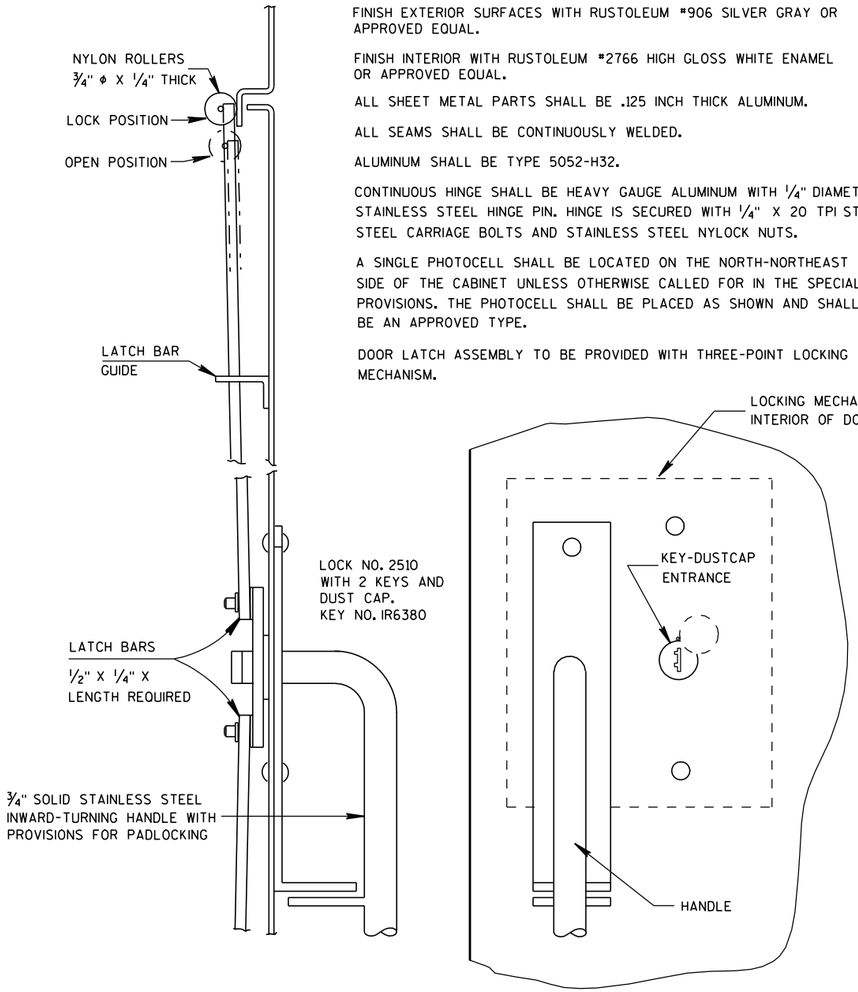
CABINET BRACKET



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

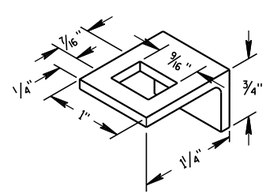
MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

GENERAL NOTES

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

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE AN APPROVED TYPE.

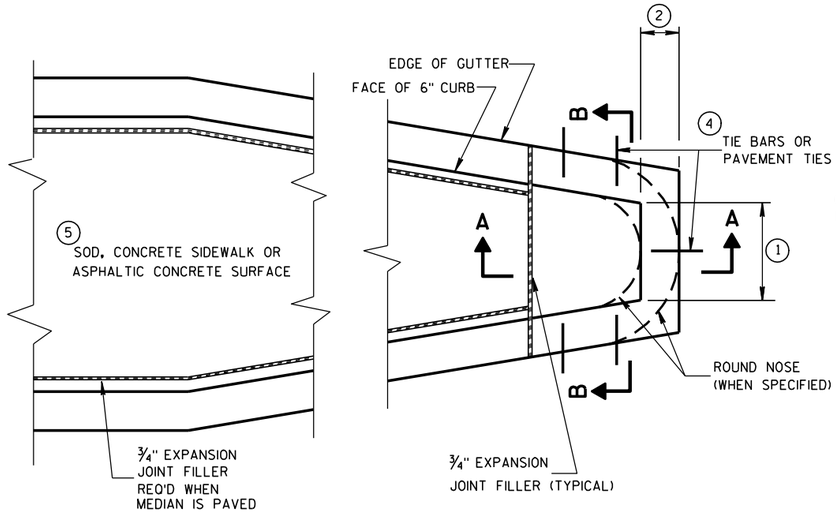
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.

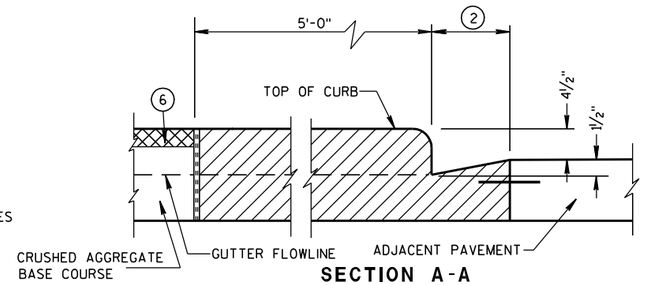
SIGNAL OR LIGHTING CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

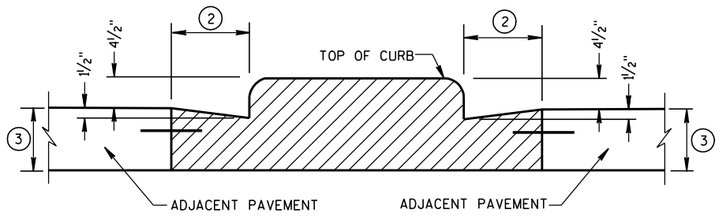
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10/21/96 — DATE
/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGI
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SECTION A-A



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.

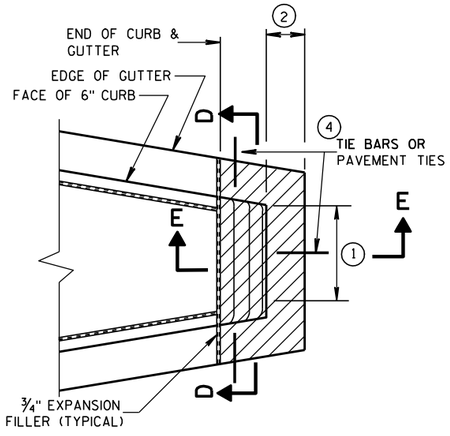
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

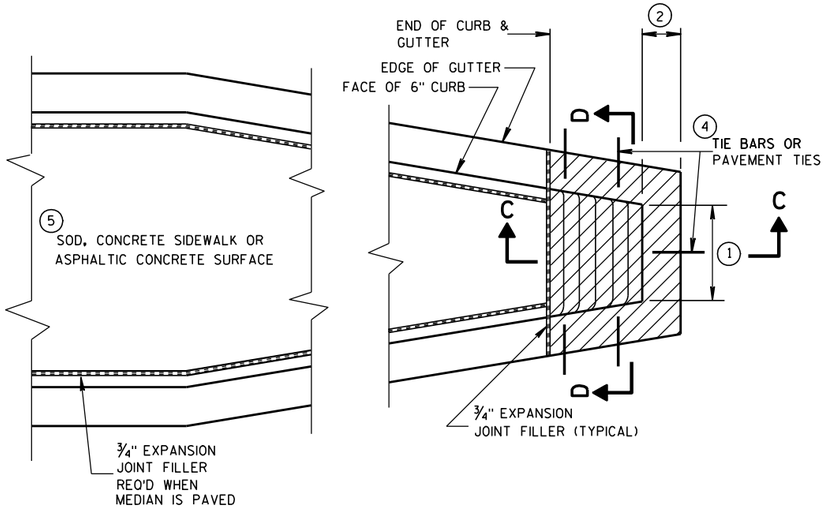
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

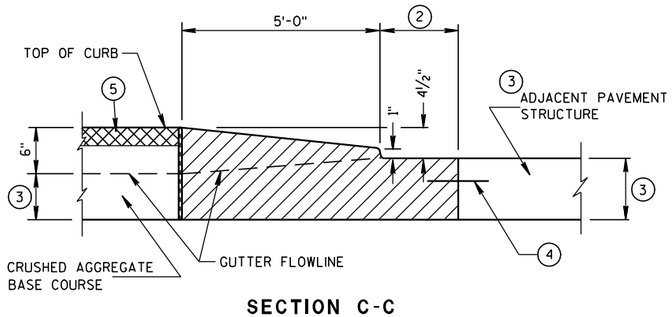
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

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.

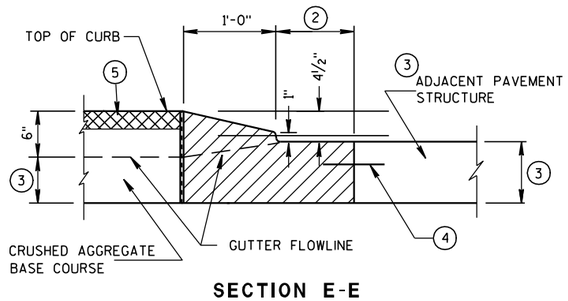
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.







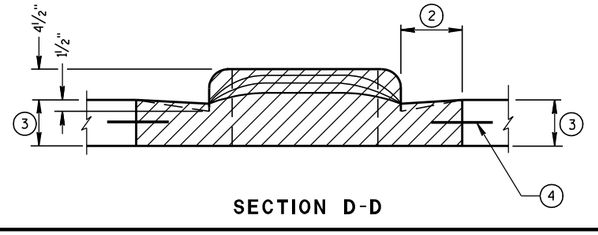
SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 1

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

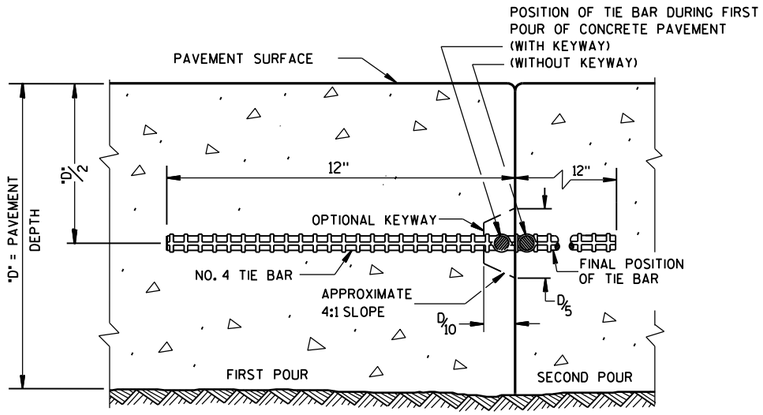
CONCRETE MEDIAN NOSE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6/8/2006 DATE FHWA	/S/ Jerry H. [illegible] ROADWAY STANDARDS ENGINEER 86
	NT

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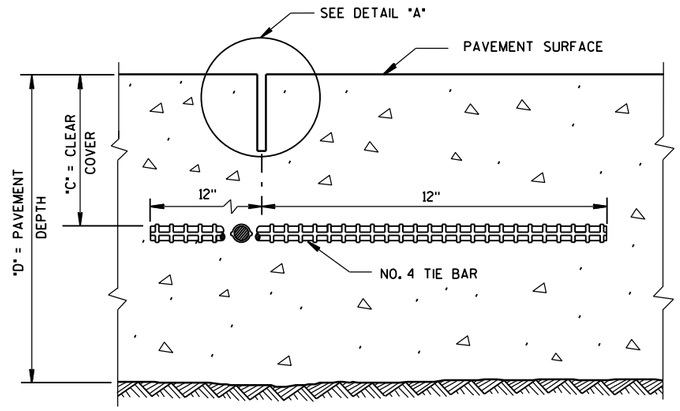
S.D.D. 11 B 2-2

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S.D.D. 11 B 2-2



CONSTRUCTION JOINT



SAWED JOINT

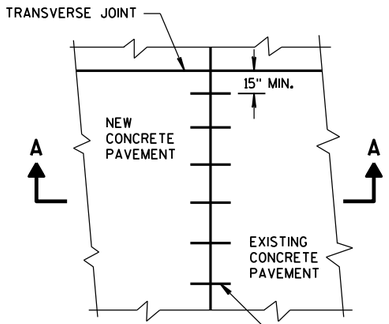
GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

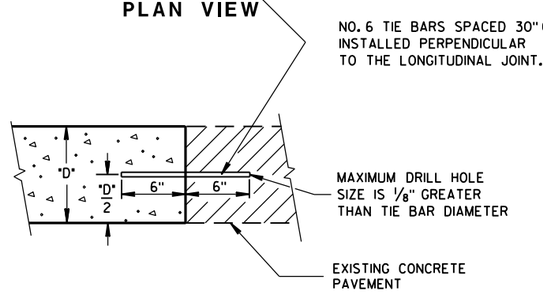
CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

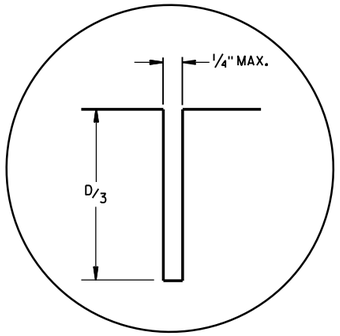


PLAN VIEW



SECTION A-A

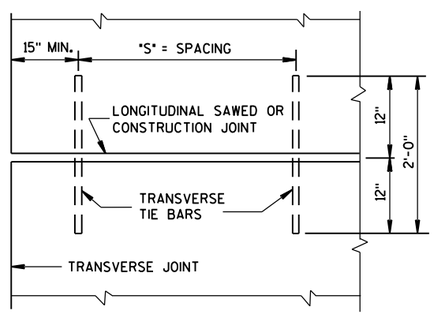
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"

TIE BAR TABLE

PAVEMENT DEPTH "D"	CLEAR COVER "C"	MAXIMUM TIE BAR SPACING "S"	
		PAVEMENT WIDTH	
		24' OR 26'	≥ 30'
6, 6 1/2"	3"±1/2"	48"	42"
7, 7 1/2"	3 1/4"±1"	45"	36"
8, 8 1/2"	3 3/4"±1"	39"	30"
9, 9 1/2"	4 1/4"±1"	33"	27"
10, 10 1/2"	4 3/4"±1"	30"	24"
11, 11 1/2"	5 1/4"±1"	27"	21"
12"	5 3/4"±1"	24"	21"



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-3-2013
DATE

/S/ Deb Bischoff
PAVEMENT POLICY & DE

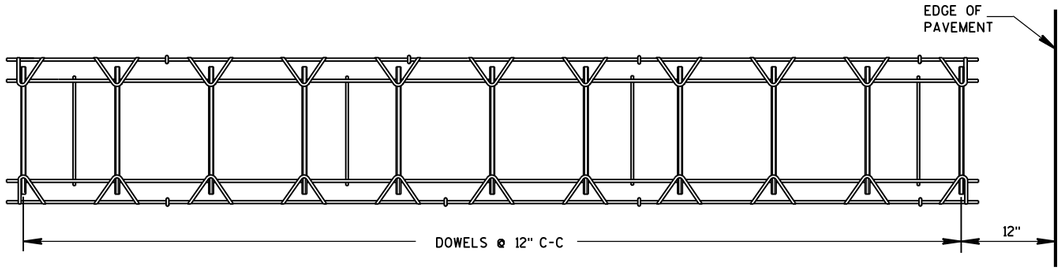
FHWA

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S.D.D. 13 C 1-16

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S.D.D. 13 C 1-16

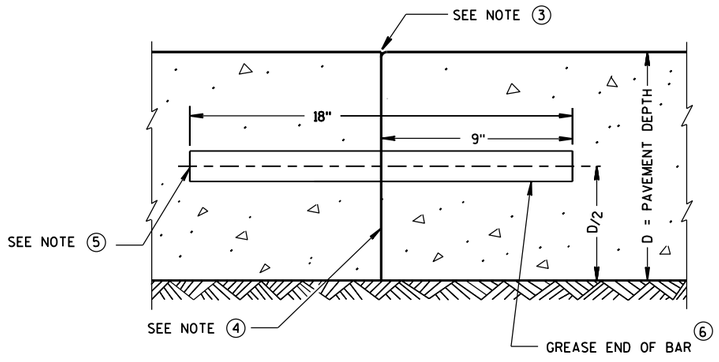


PLAN VIEW

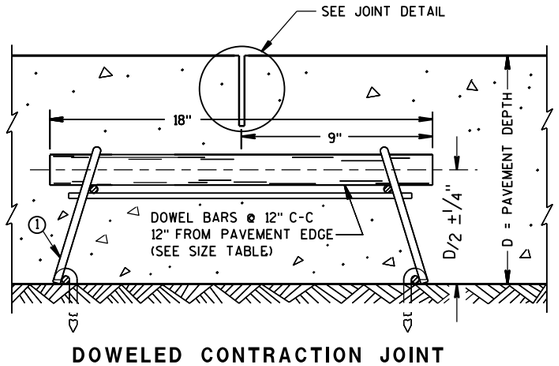


SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



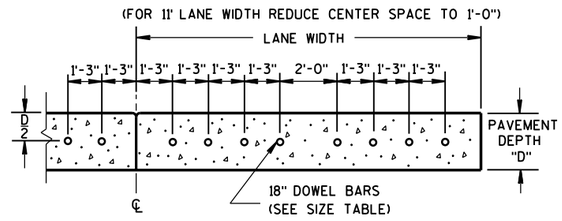
TRANSVERSE CONSTRUCTION JOINT



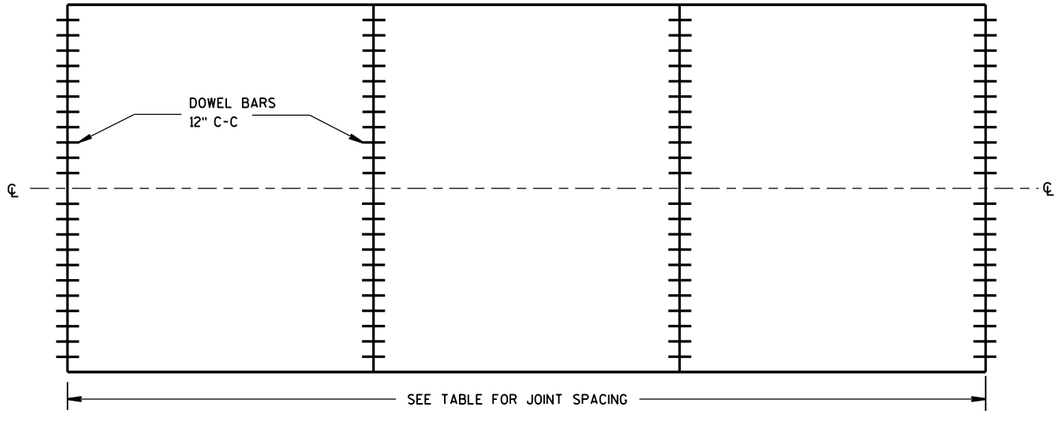
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① **OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.**

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

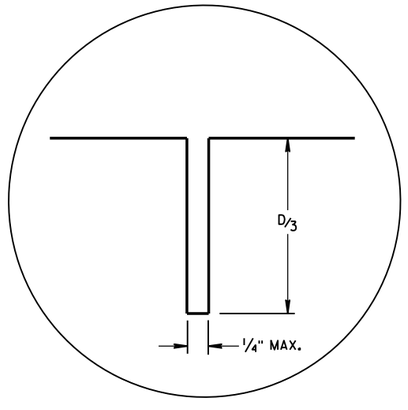
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

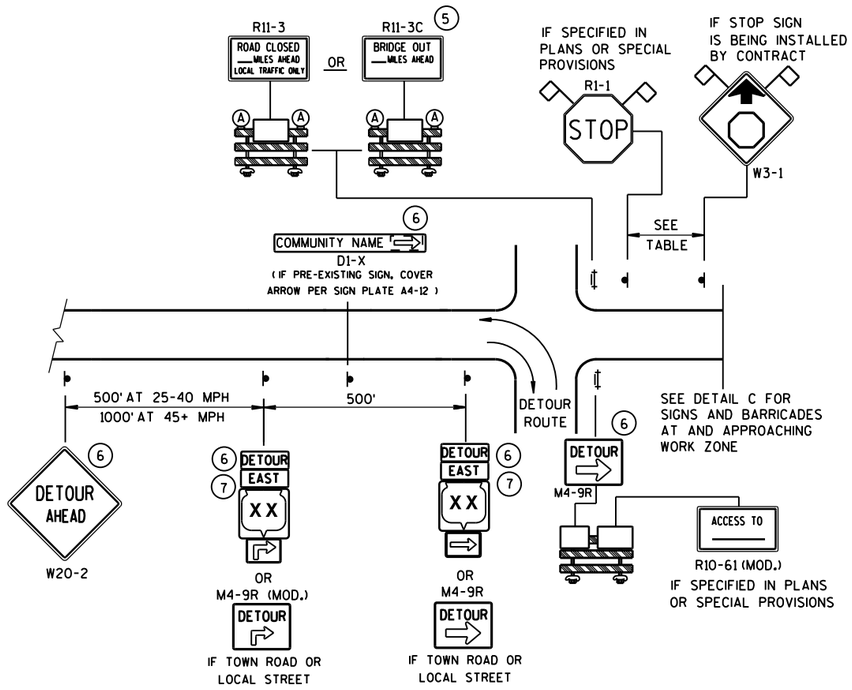
URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/3/2013 DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE ENGINEER
FHWA

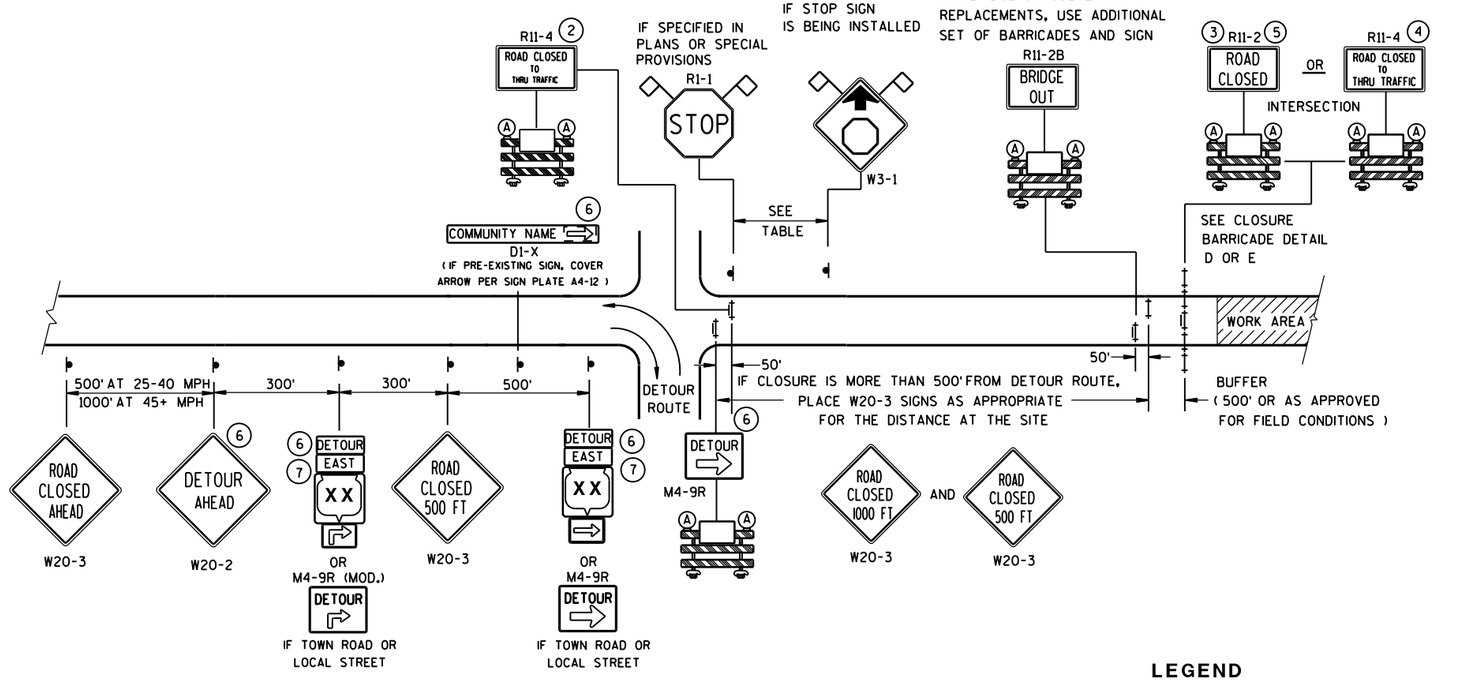
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S.D.D. 13 C 13-8



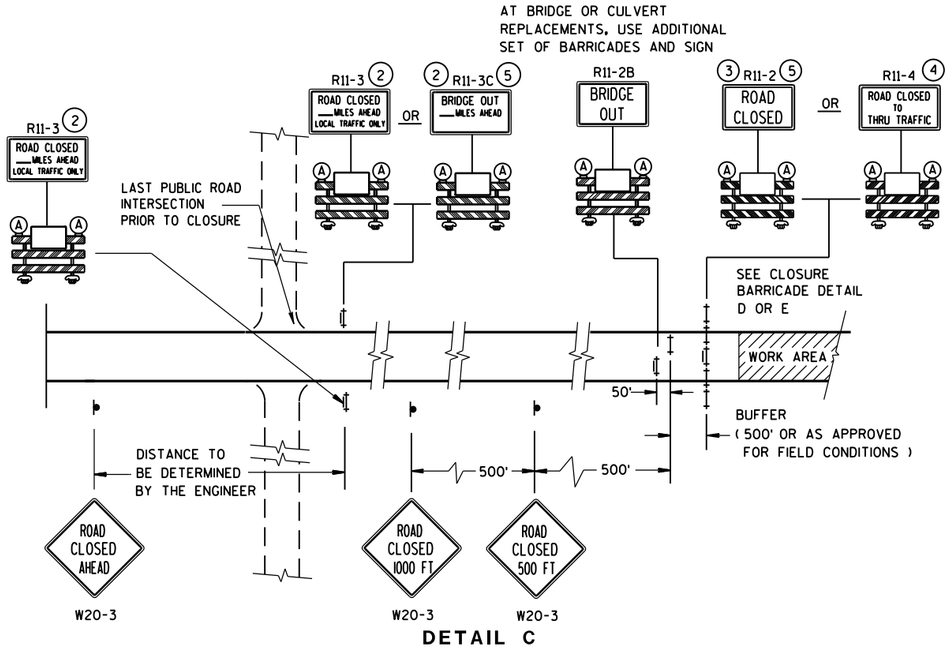
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "**b**" FOR GENERAL NOTES AND FOOTNOTES (1) THROUGH (7)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

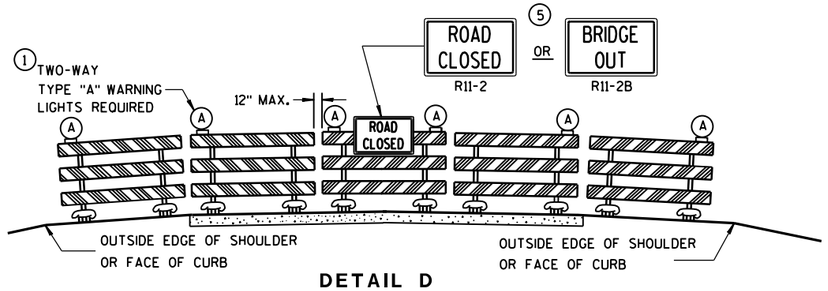
8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

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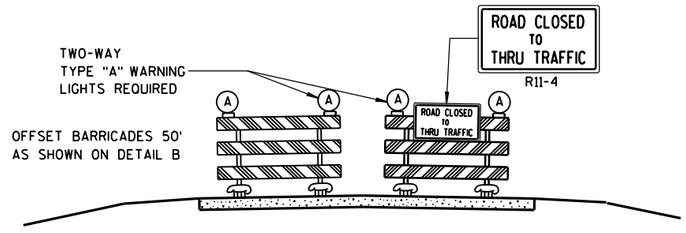
S.D.D. 15 C 2-5a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 2-5b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

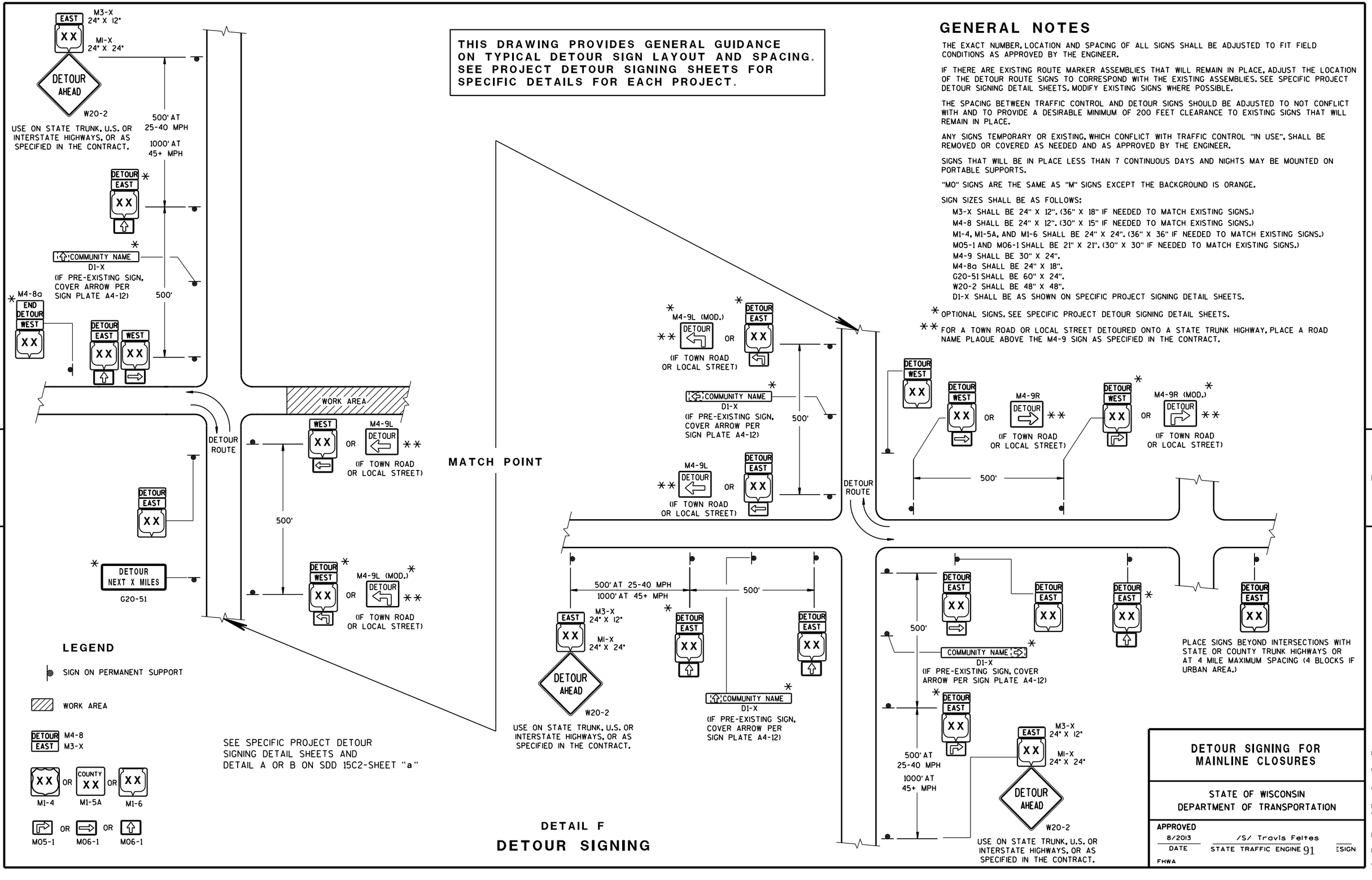
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



DETAIL F

DETOUR SIGNING

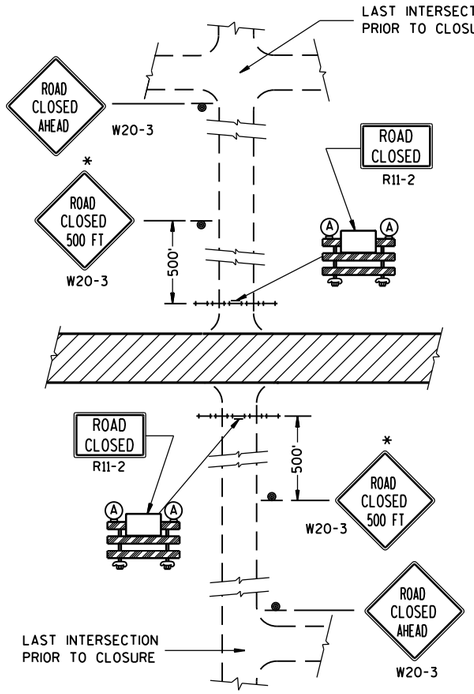
DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER

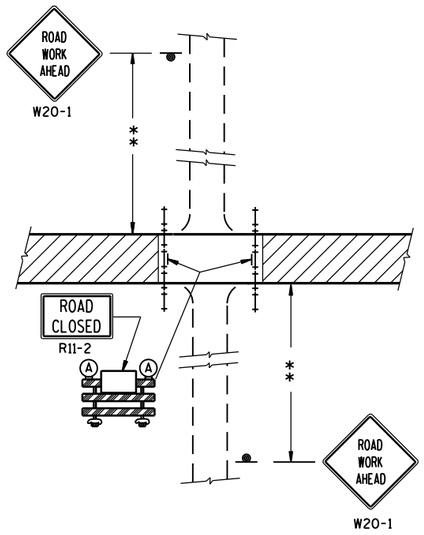
FHWA

S.D.D. 15 C 2-5c



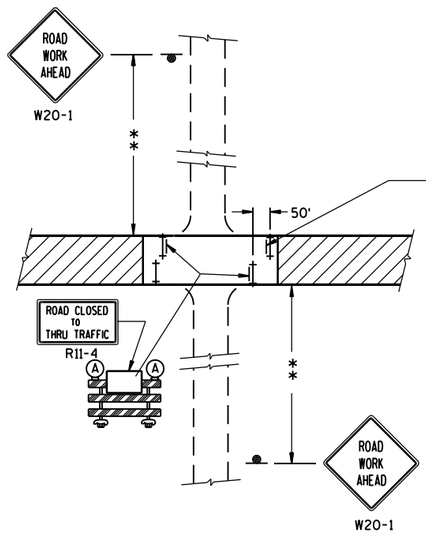
DETAIL 1

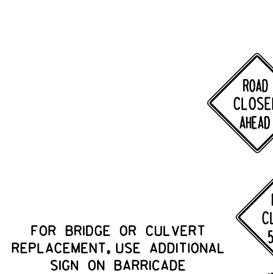
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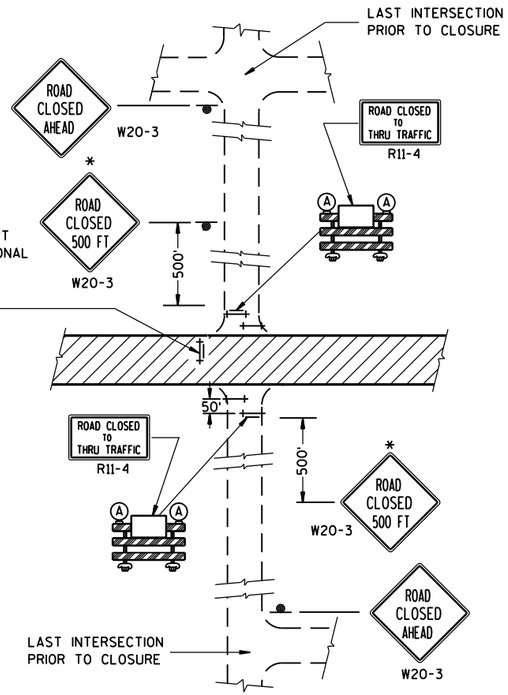
(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).





DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

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 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

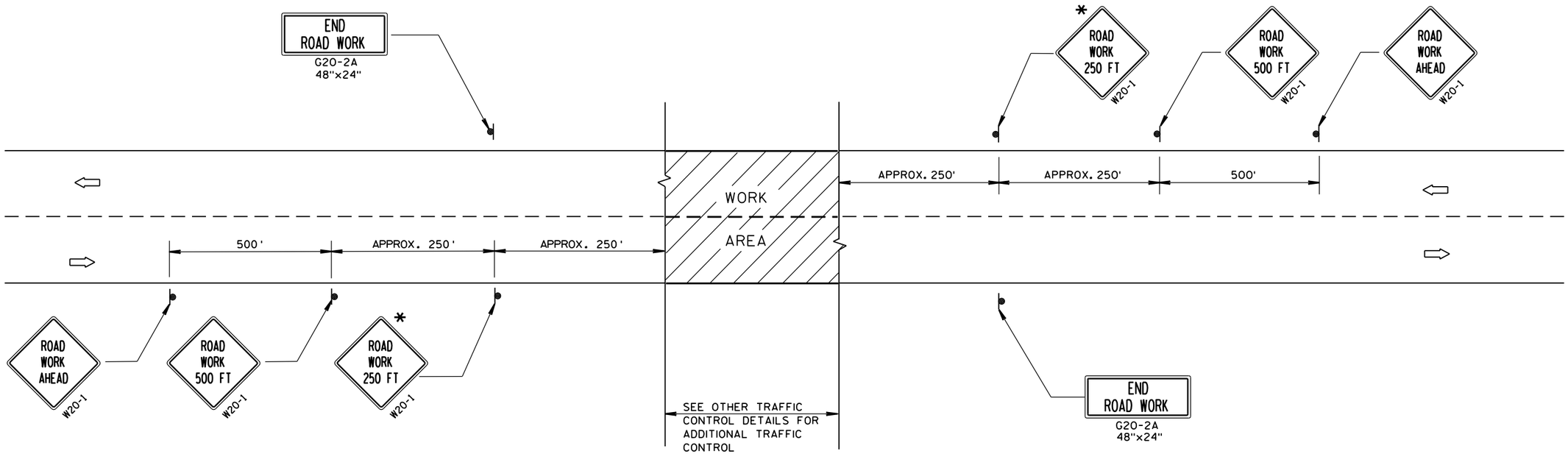
6

S.D.D. 15 C 3-2

6

S.D.D. 15 C 3-2

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

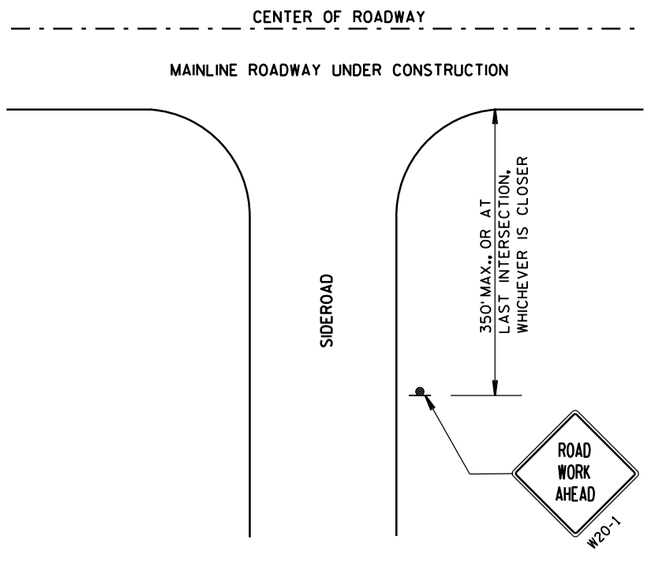
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

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SIGN

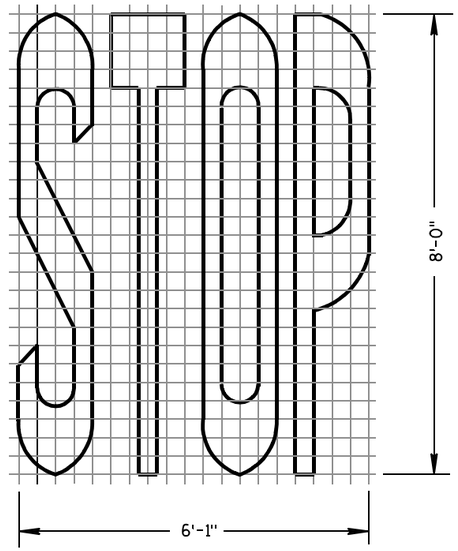
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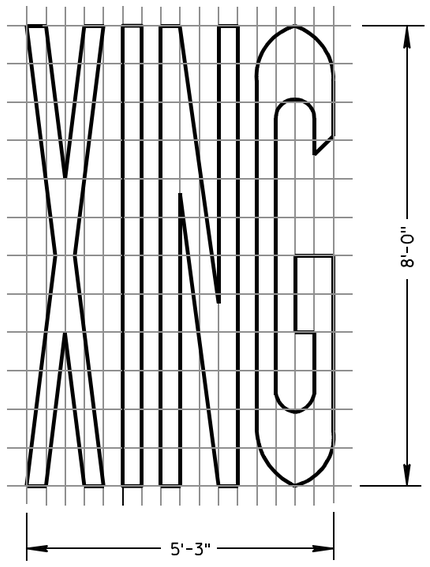
S.D.D. 15 C 5-2

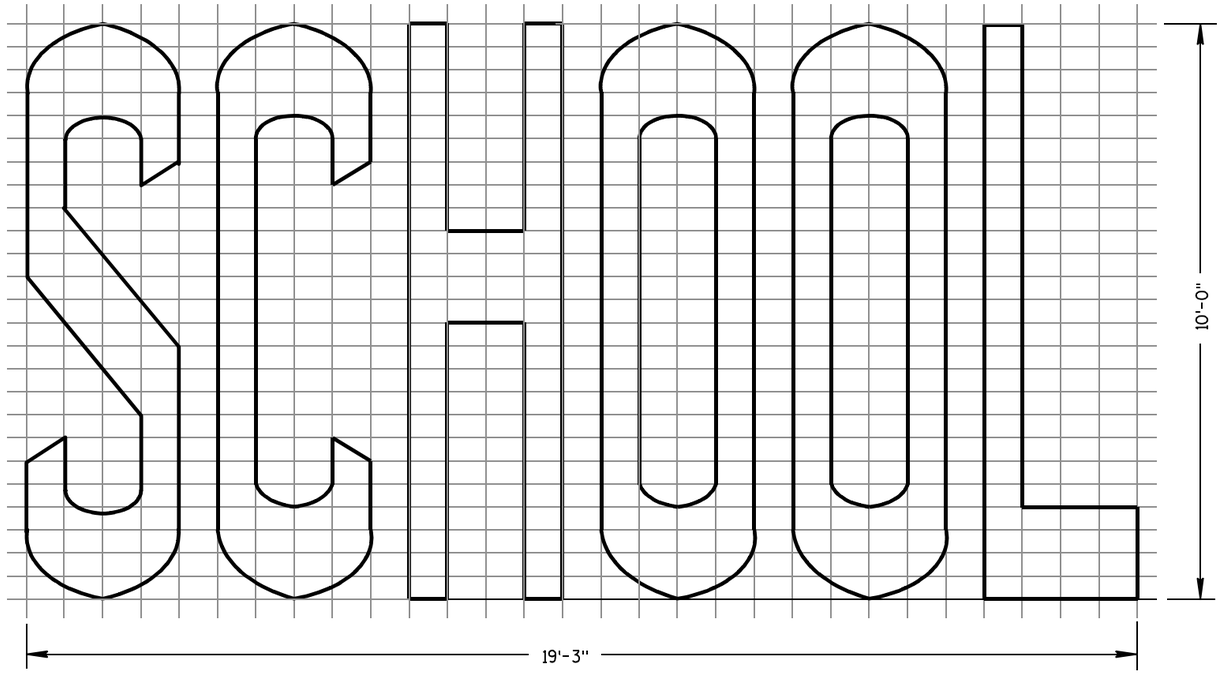
GENERAL NOTES

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

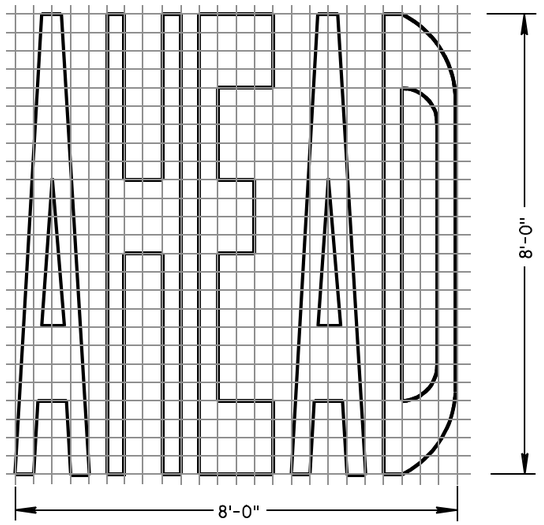
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

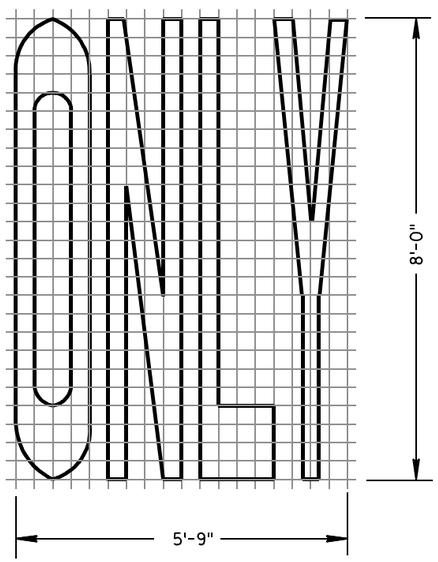


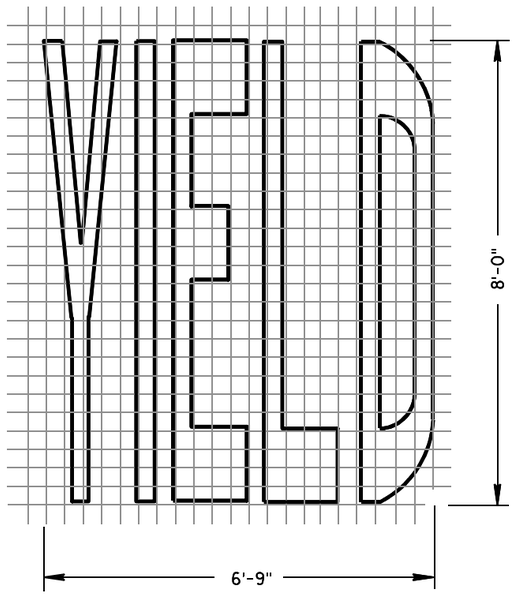


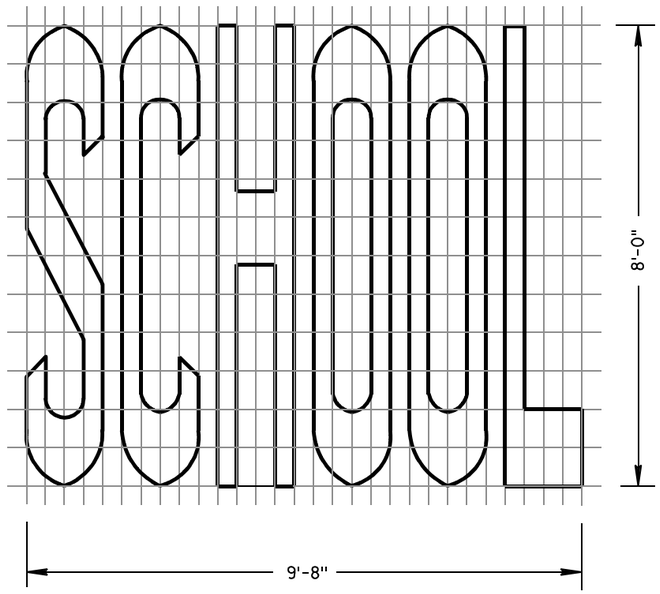


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 — DATE

/S/ Thomas N. Nothohm — STATE TRAFFIC ENGINEER

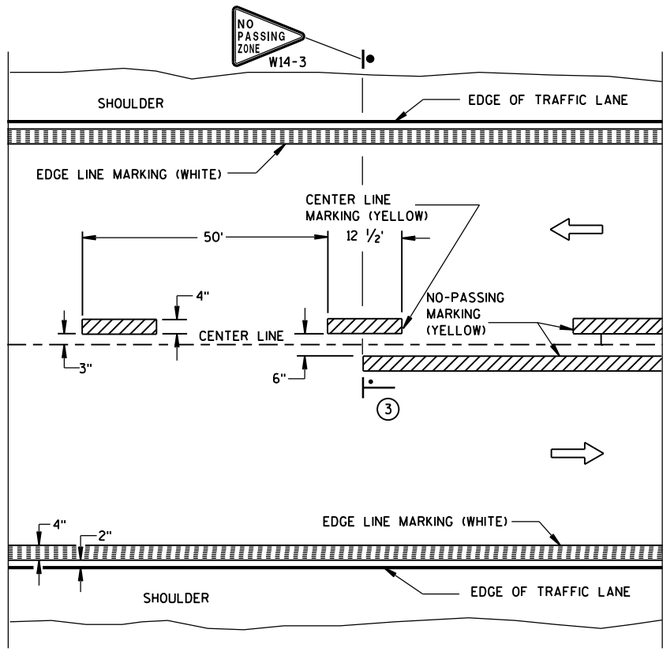
FHWA

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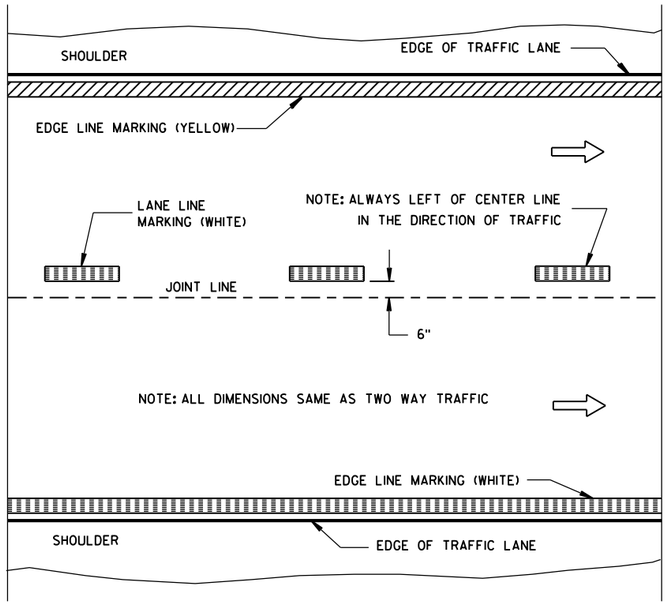
S.D.D. 15 C 7-12b

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S.D.D. 15 C 7-12b

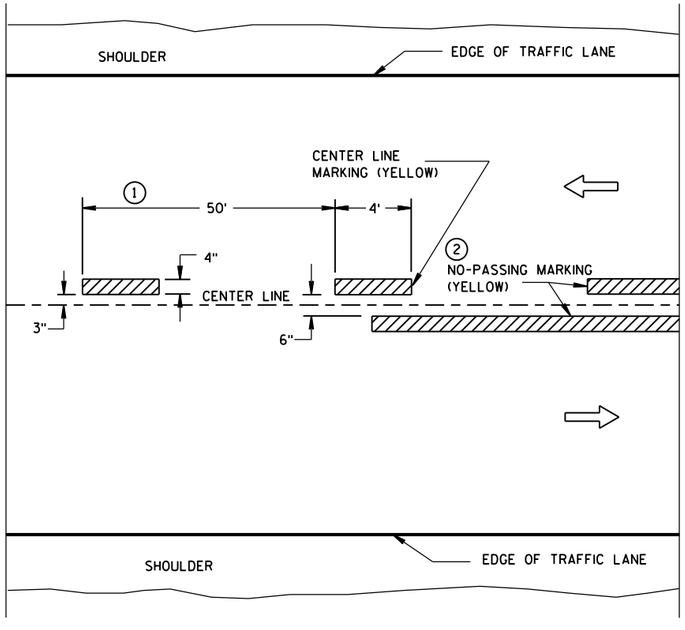


TWO WAY TRAFFIC

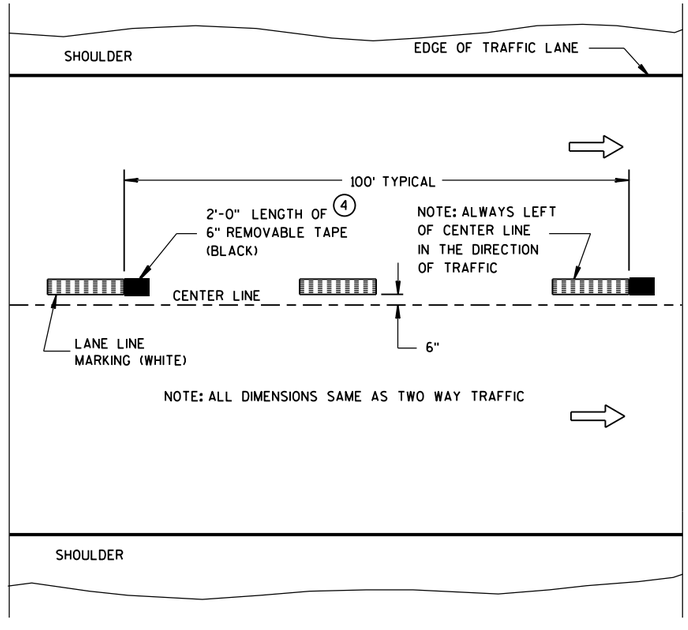


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

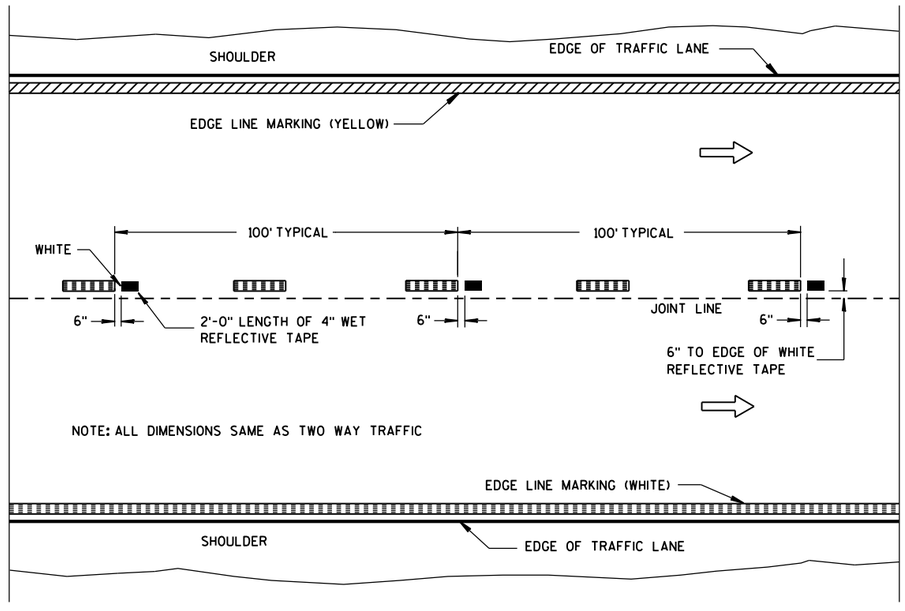
GENERAL NOTES

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

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-13-2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E 95

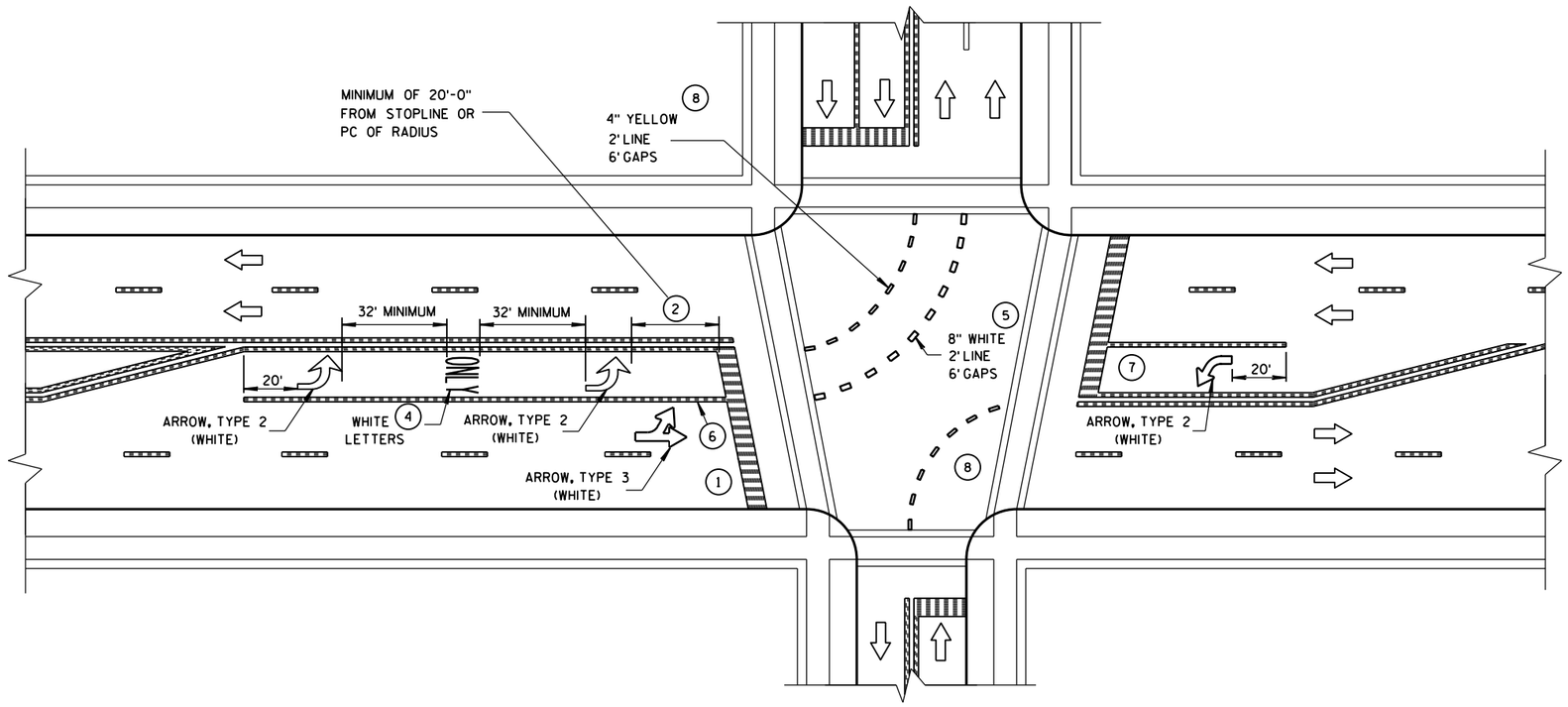
FHWA

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S.D.D. 15 C 8-16a

6

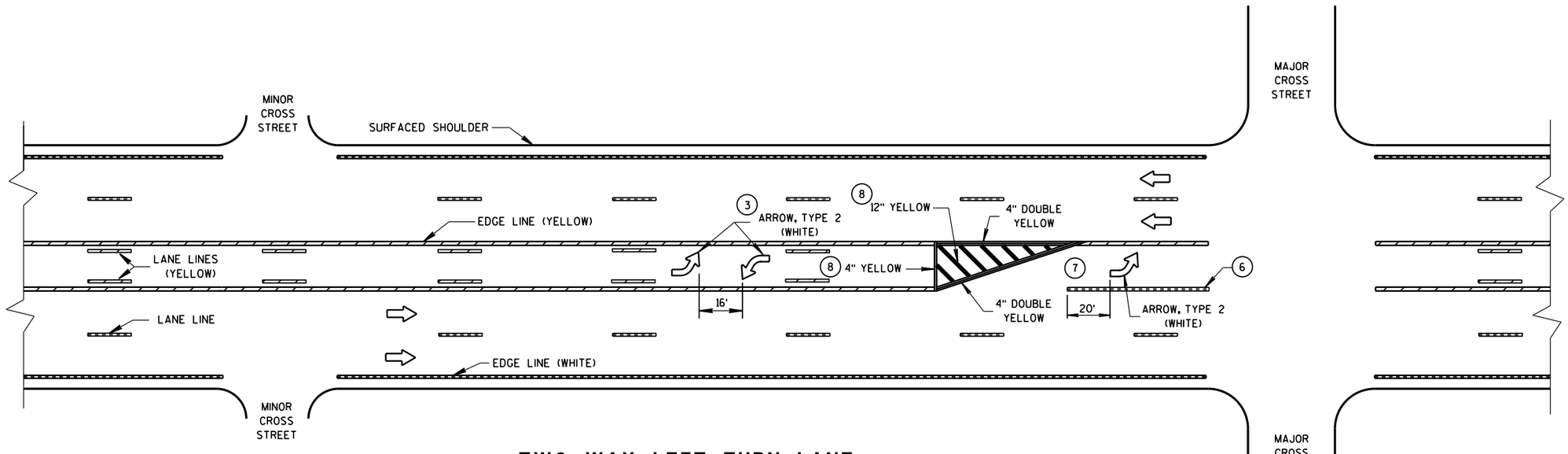
S.D.D. 15 C 8-16a



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

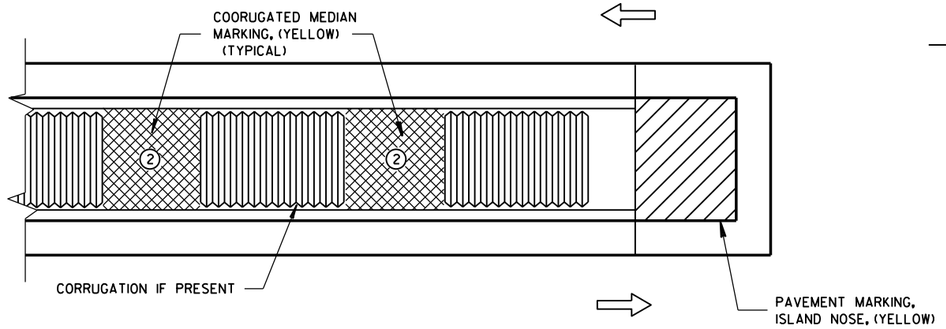
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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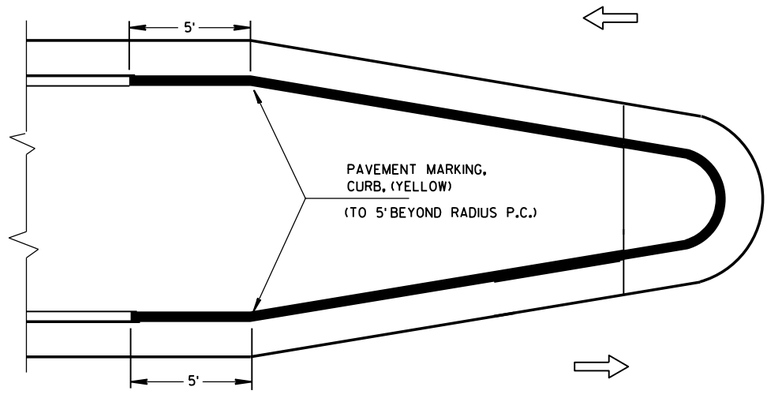
S.D.D. 15 C 8-16e

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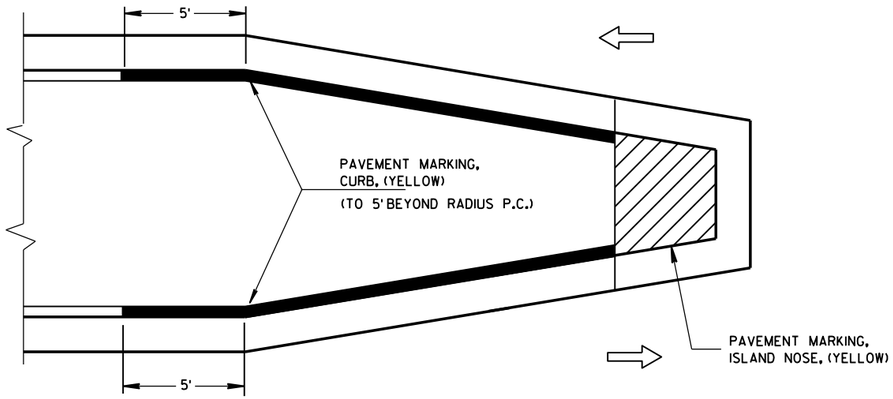
S.D.D. 15 C 8-16e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

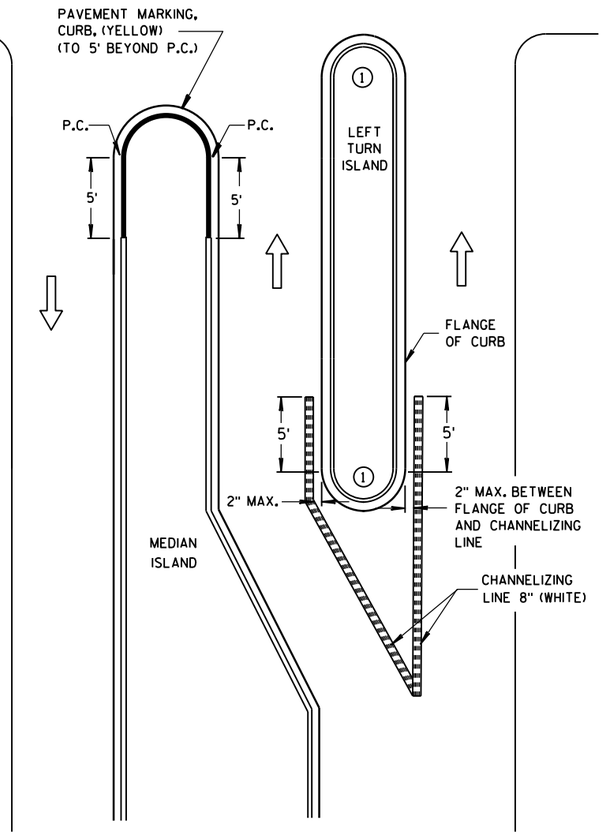


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

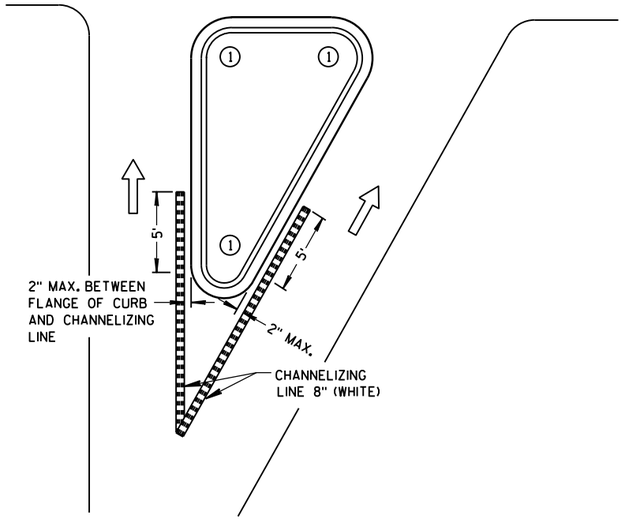


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 8-16f

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

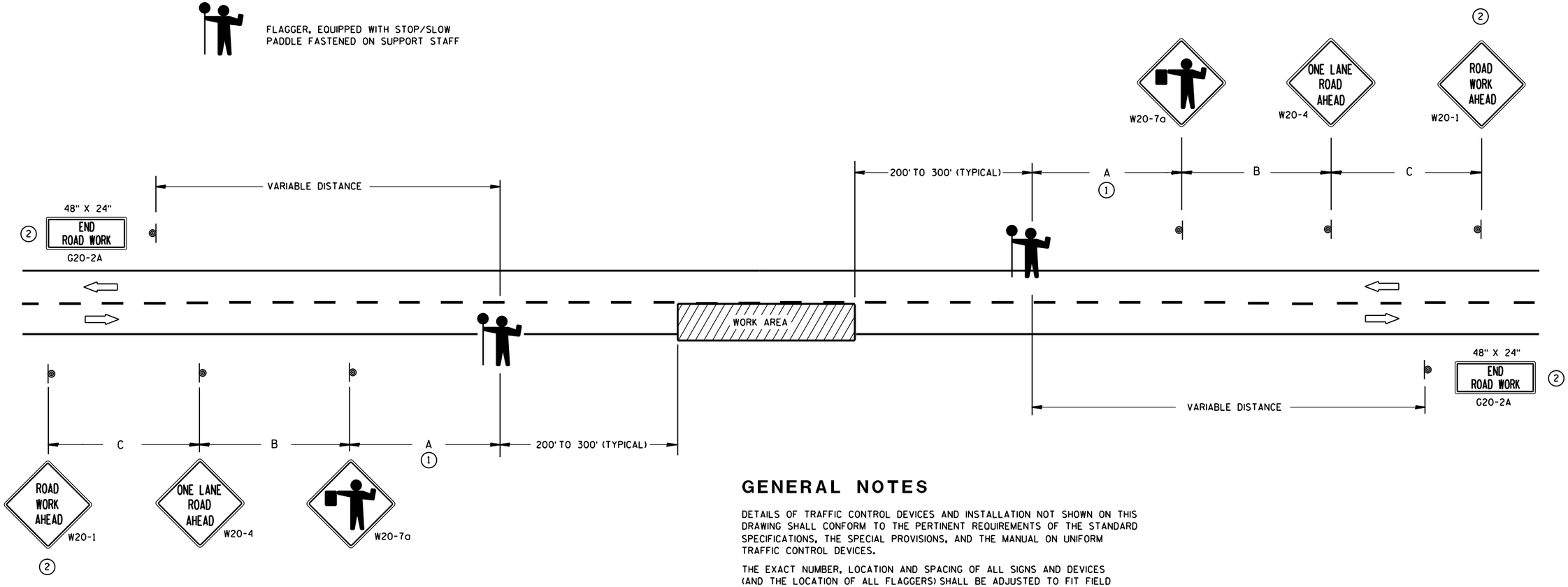
SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

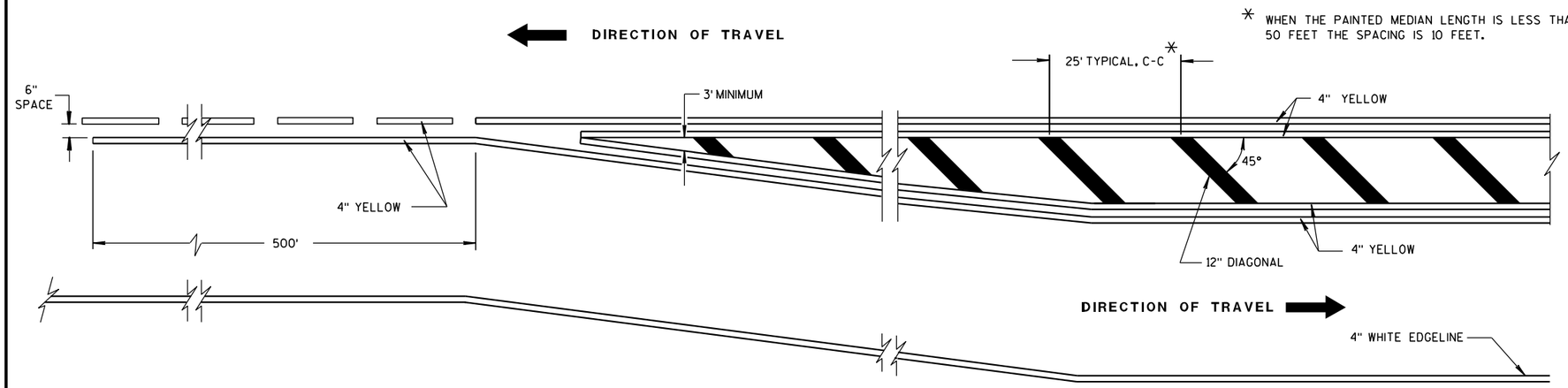
APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 12-4

6

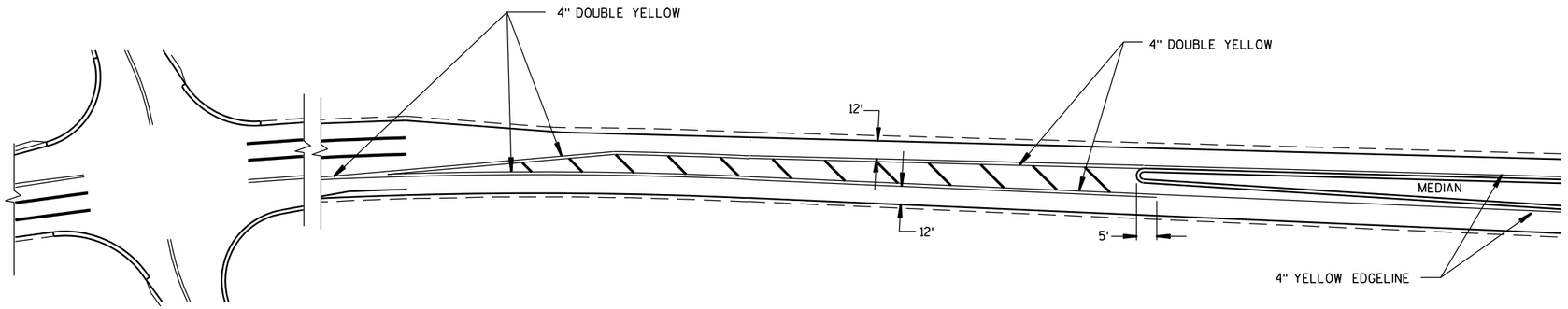
S.D.D. 15 C 12-4



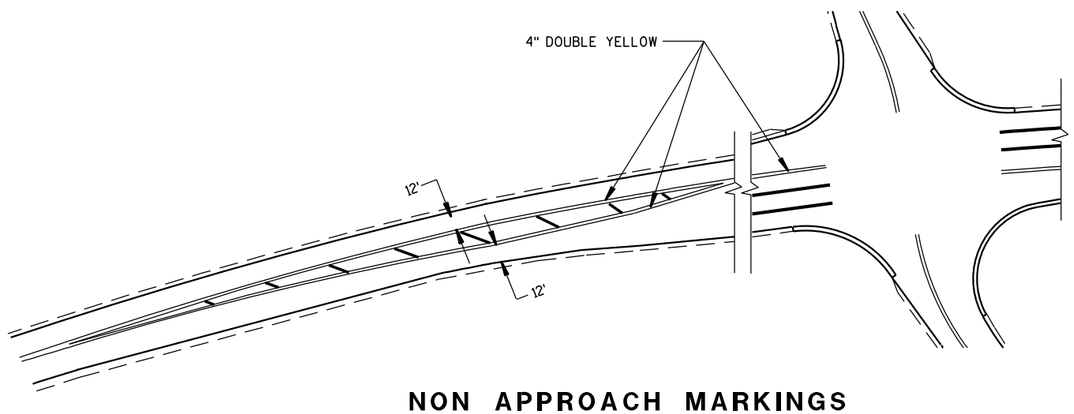
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

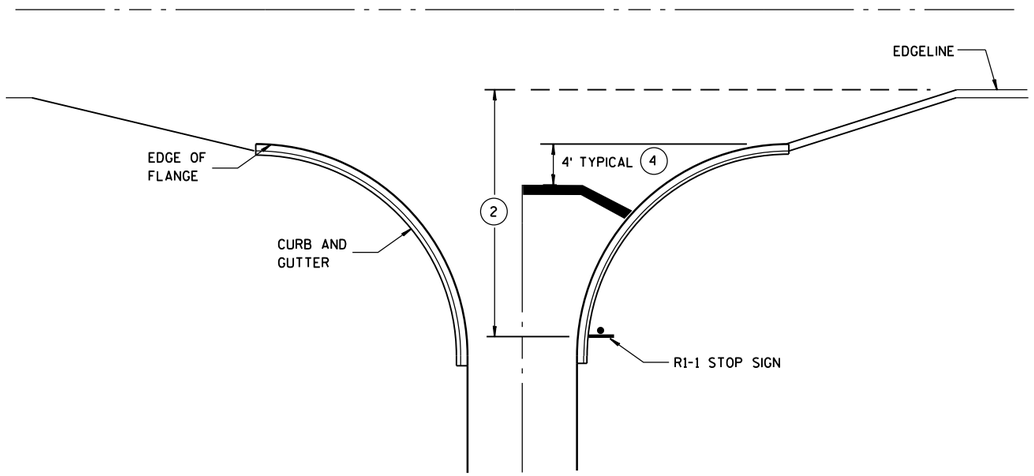
MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER 99 IGN
FHWA	

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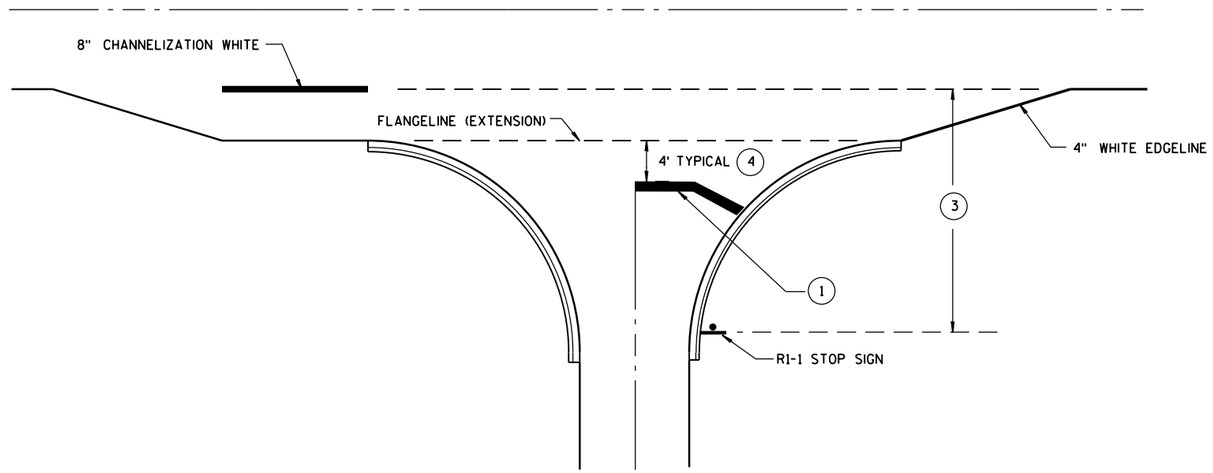
S.D.D. 15 C 18-3

6

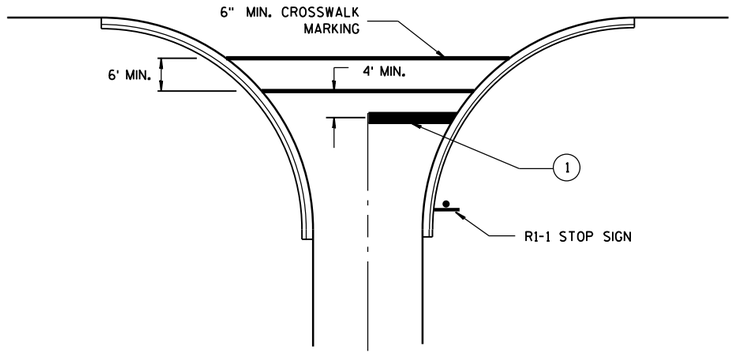
S.D.D. 15 C 18-3



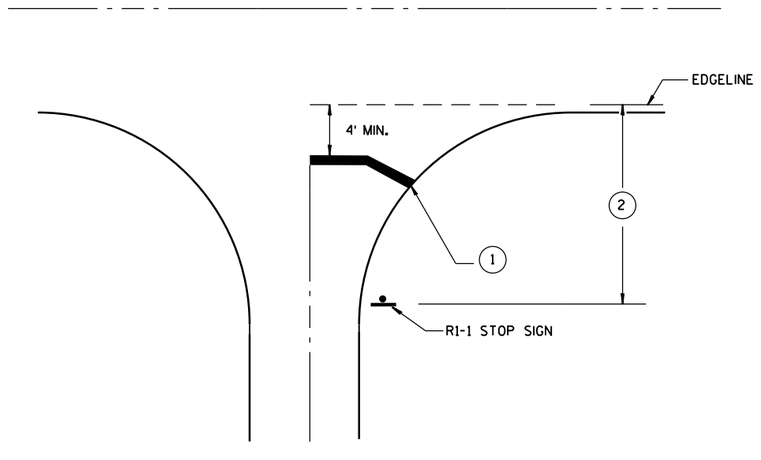
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

6

S.D.D. 15 C 33-1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

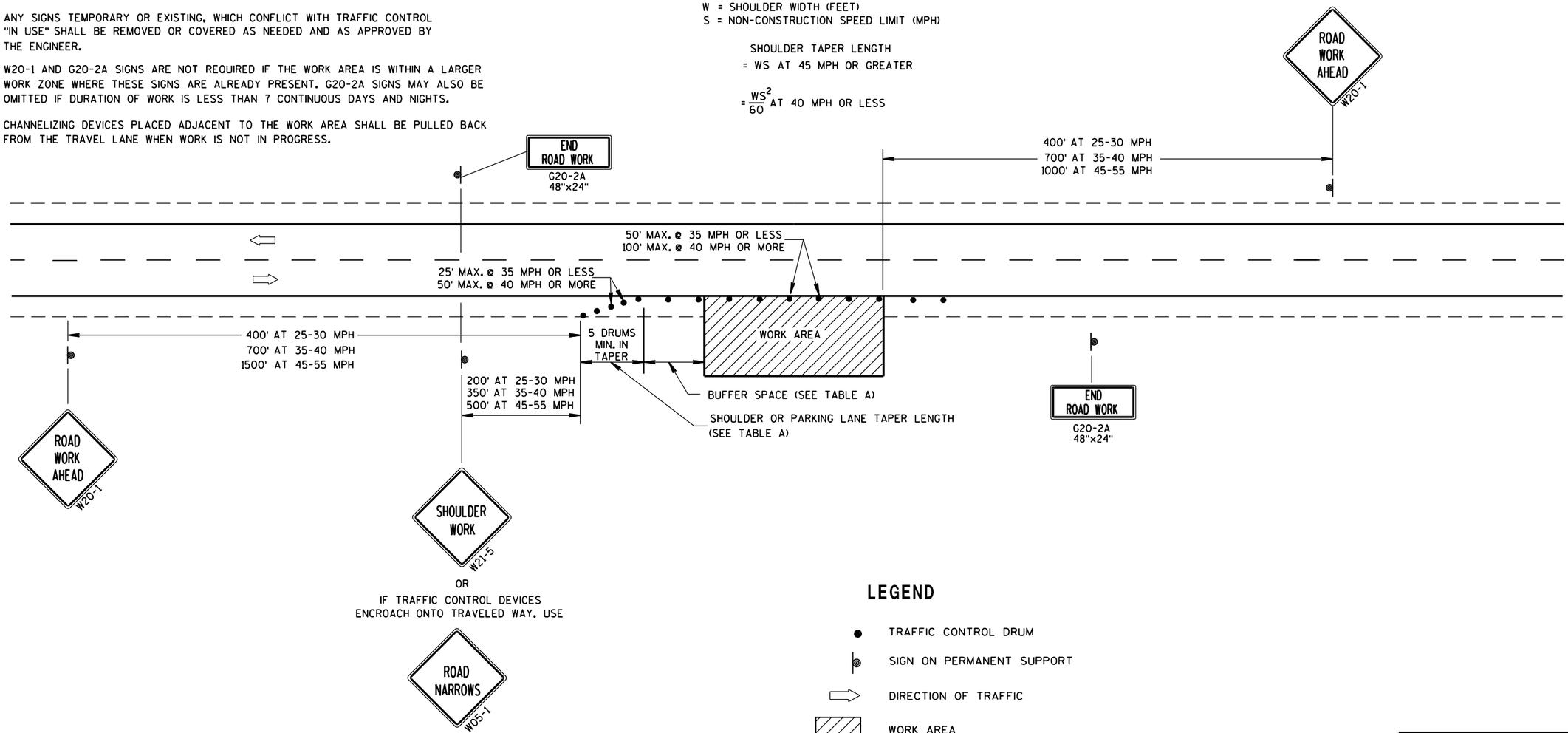
TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= WS AT 45 MPH OR GREATER

$= \frac{WS^2}{60}$ AT 40 MPH OR LESS



LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

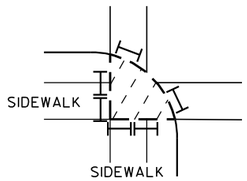
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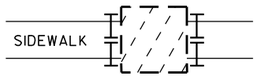
S.D.D. 15 D 28-2

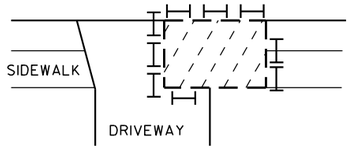
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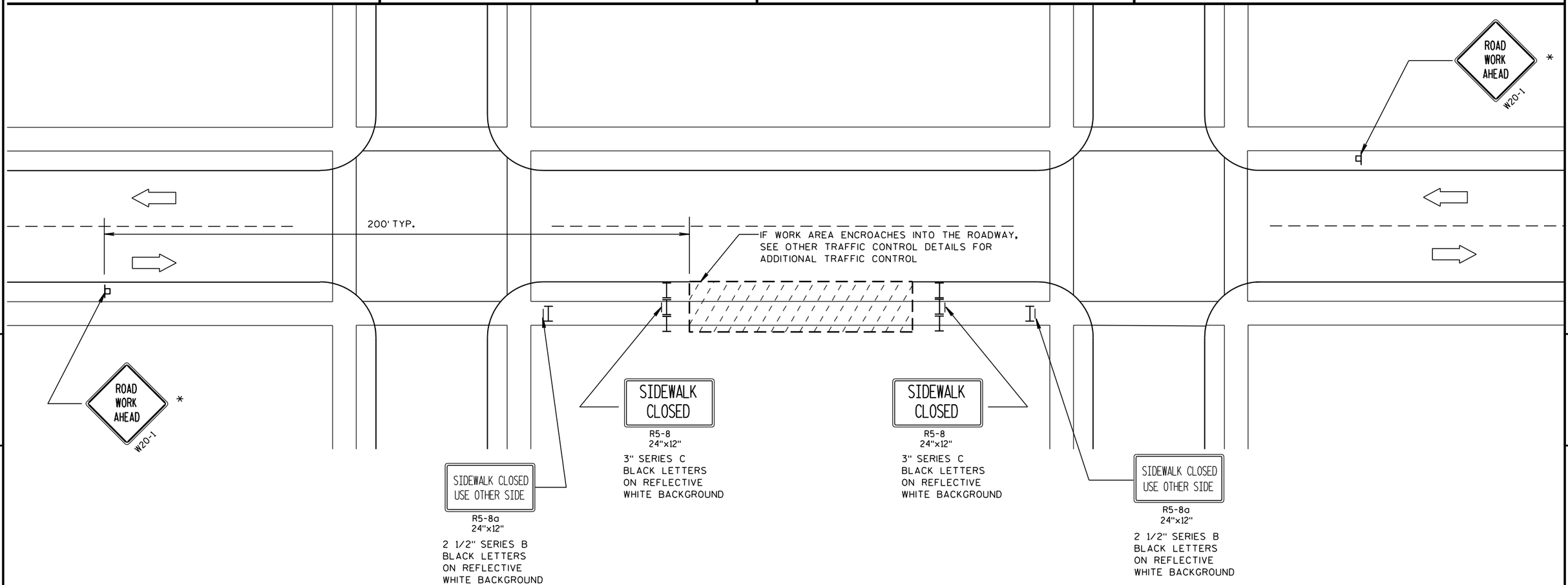
S.D.D. 15 D 28-2

WARNING OF LOCALIZED SIDEWALK WORK AREAS









LEGEND

- POST MOUNTED SIGN
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- WORK AREA
- DIRECTION OF TRAFFIC FLOW

GENERAL NOTES :

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

THE EXACT LOCATION AND PLACEMENT OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

* "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

TRAFFIC CONTROL, SIDEWALK CLOSURE

TRAFFIC CONTROL, SIDEWALK CLOSURE

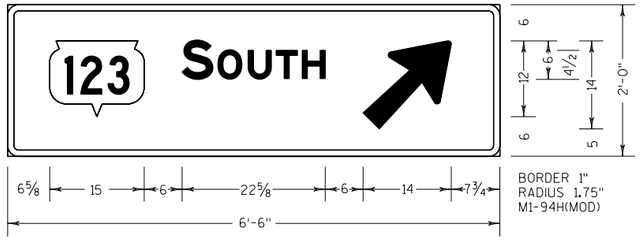
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/2000 DATE
/S/ Chester J. [illegible]
CHIEF SIGNS AND MARK[illegible]NEER
FHWA

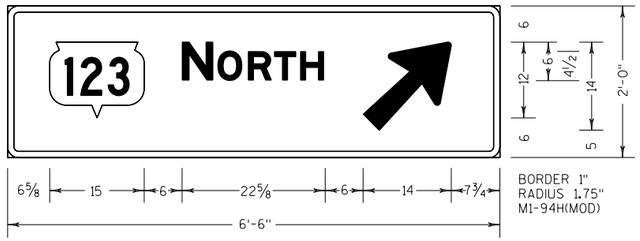
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S.D.D. 15 D 30-1

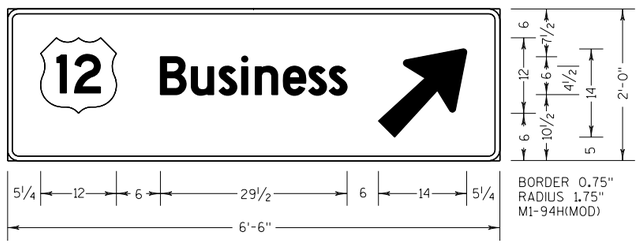
7-46



7-24



7-7



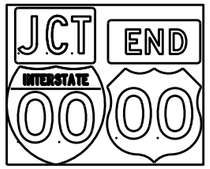
GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIRMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE II".
3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND, "TYPE H MESSAGE MATERIAL".
4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A GREEN BACKGROUND AND WHITE MESSAGE.
5. TYPE II SIGNS ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E". ALL LOWERCASE MESSAGE WITH AN INITIAL UPPERCASE LETTER SHALL BE "SERIES E", EXCEPT WHERE OTHERWISE NOTED.
6. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.
7. DO NOT SCALE.

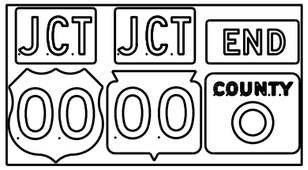
TYPICAL ASSEMBLIES



J1-1



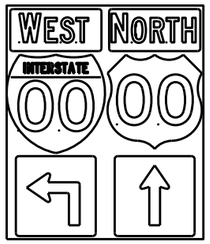
J1-2



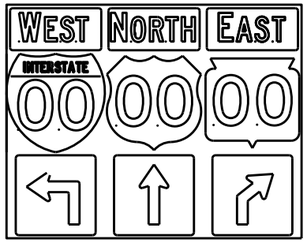
J1-3



J2-1



J2-2

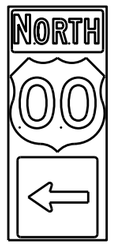


J2-3

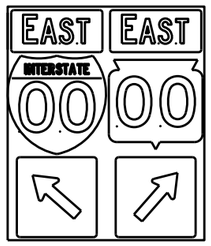


JV

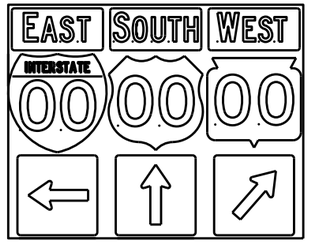
(Typical Vertical J-Assembly
See Note 10 and 11)



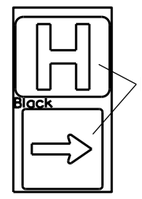
J3-1



J3-2



J3-3

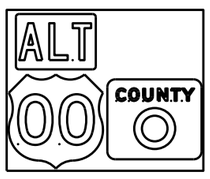


Blue Background

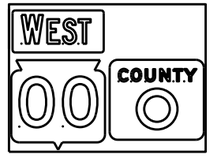
JH-1



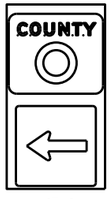
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

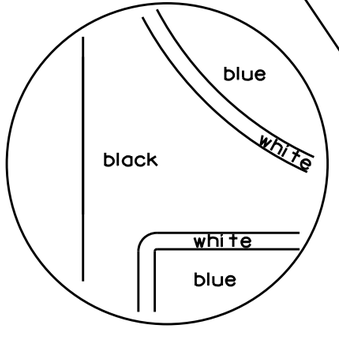


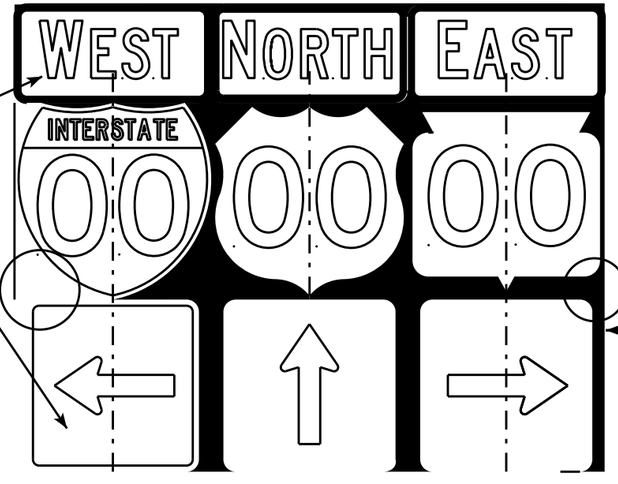
J23-1

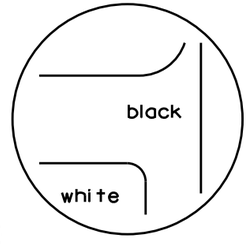


J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

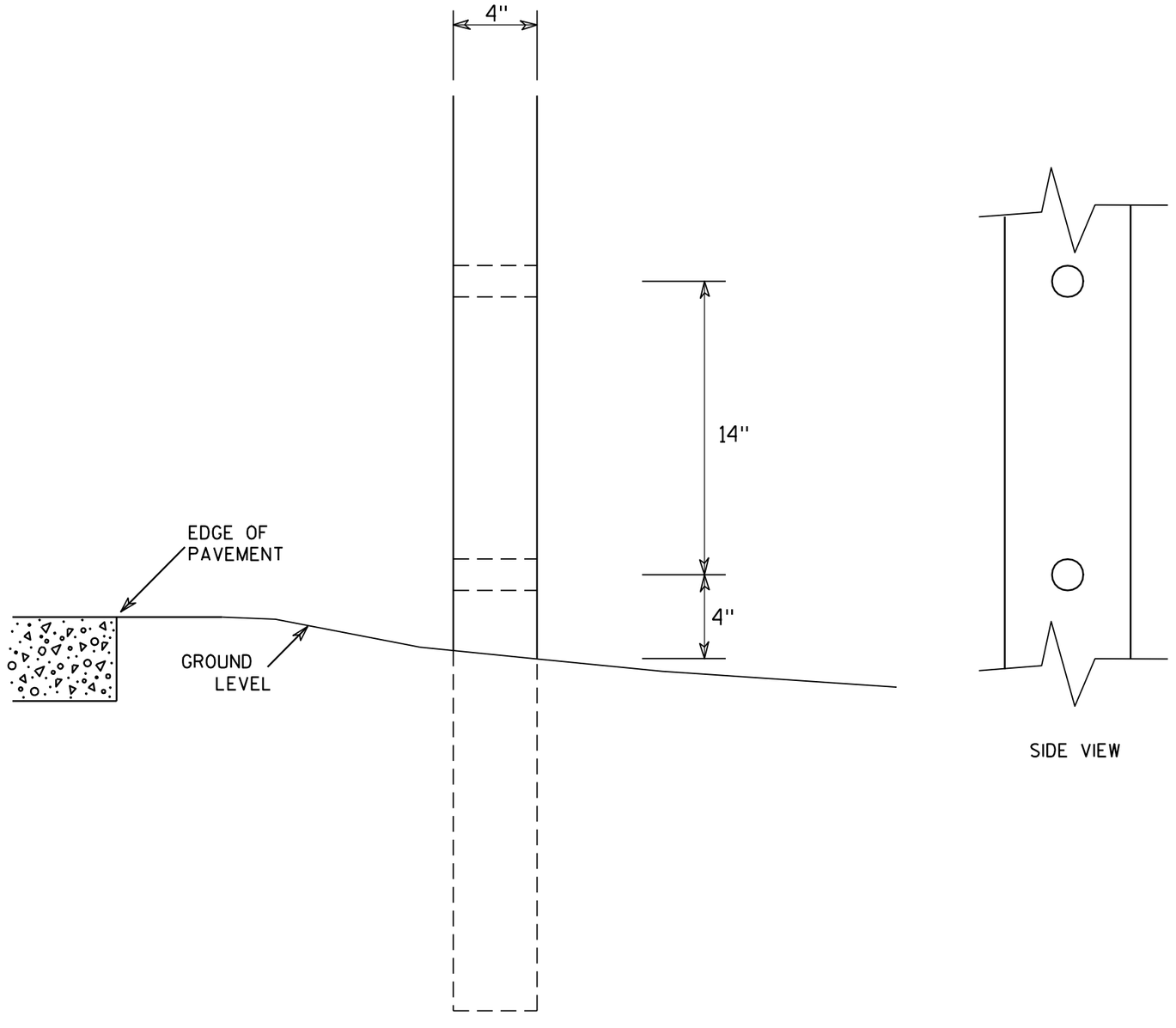
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :
WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

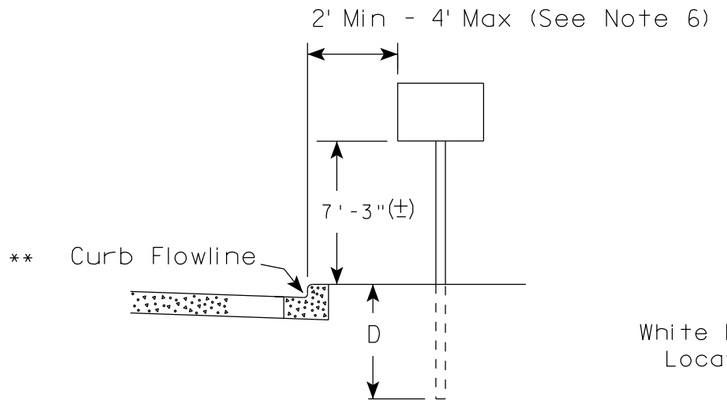
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

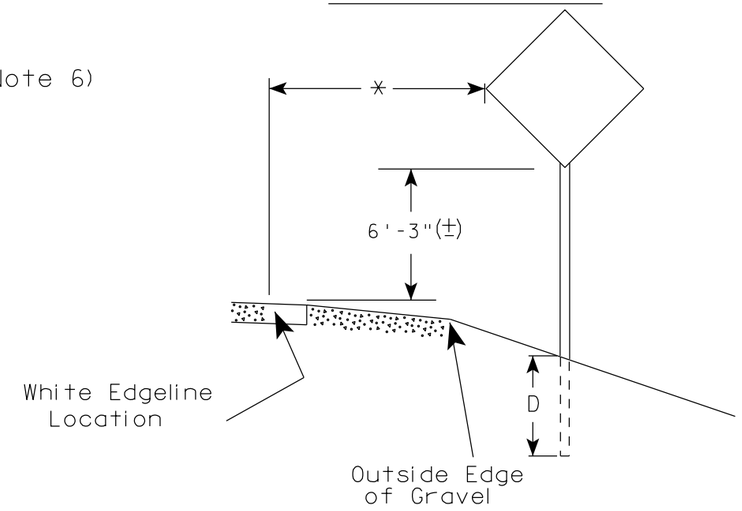
DATE 3/27/97 PLATE NO. A4-11.2

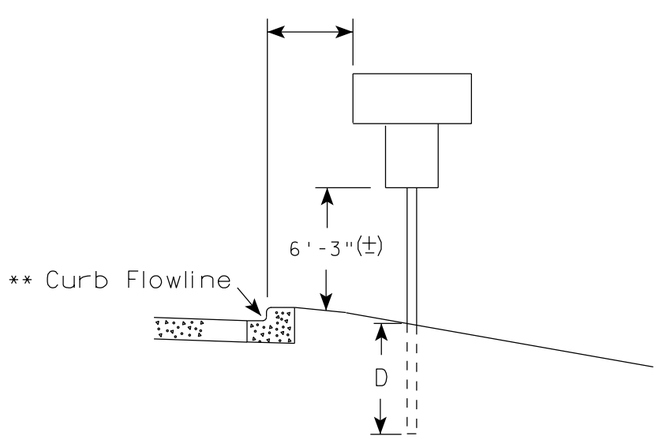
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 105	E

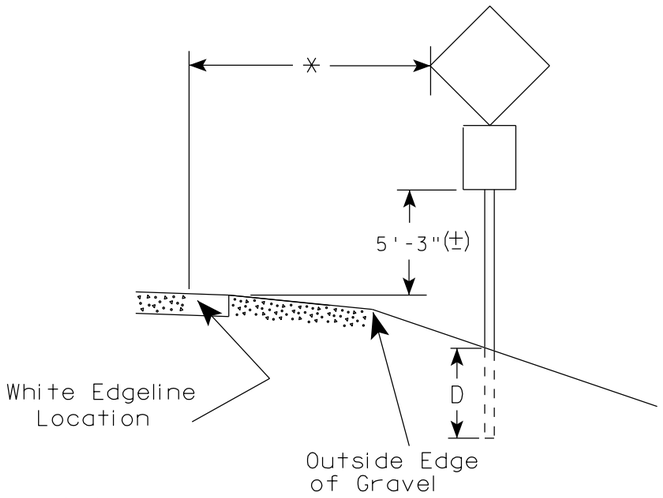
URBAN AREA



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, 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

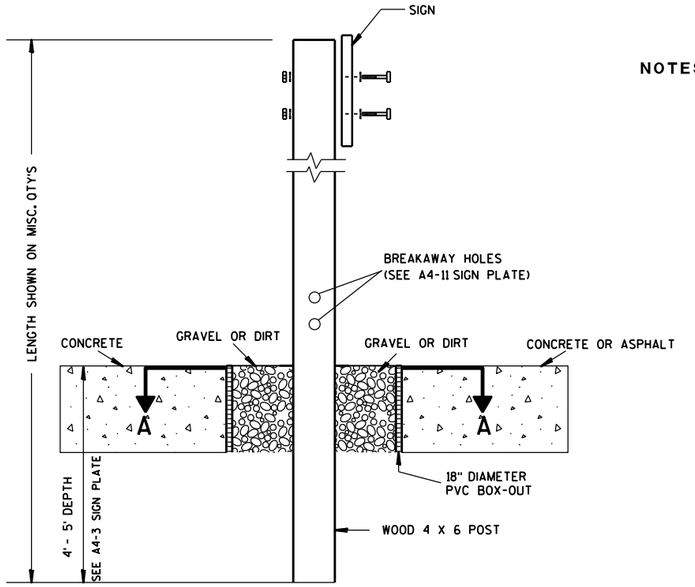
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/13 PLATE NO. A4-3.18

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

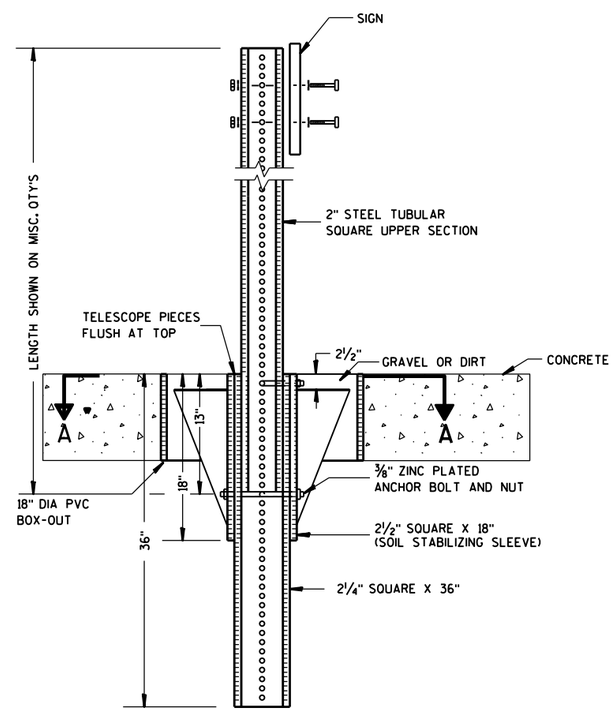
7



ELEVATION VIEW

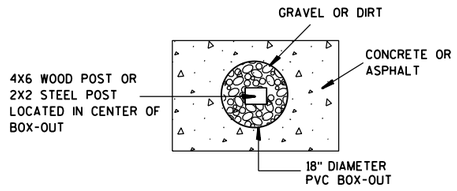
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

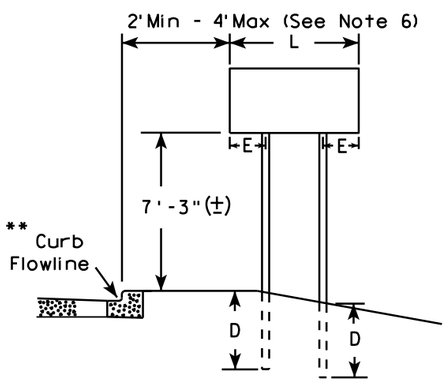
APPROVED Matthew R Rauch
for State Traffic Engineer

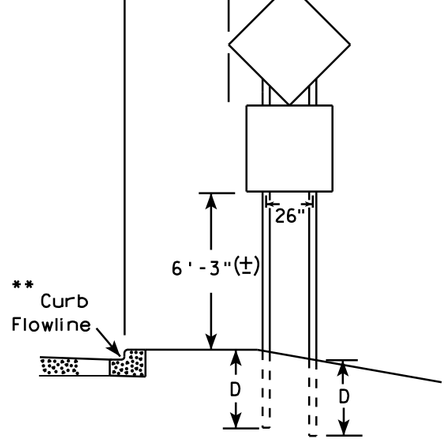
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

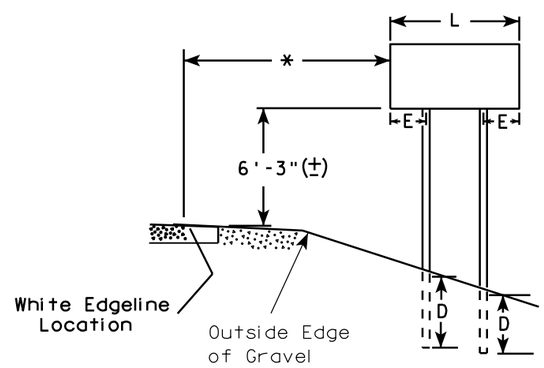
URBAN AREA

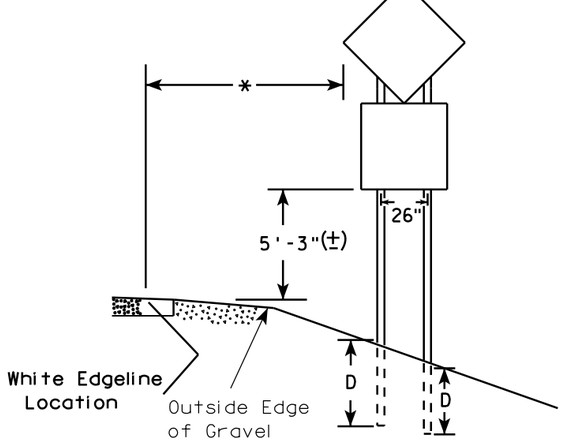




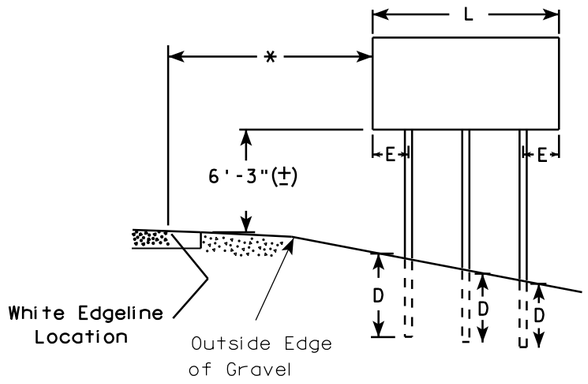
48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)





48" DIAMOND WARNING SIGN



GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding stop signs (R1-1F) 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) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width or 20 S.F. or less in area.

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
*** Greater than 48" Less than 60"	12"
60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

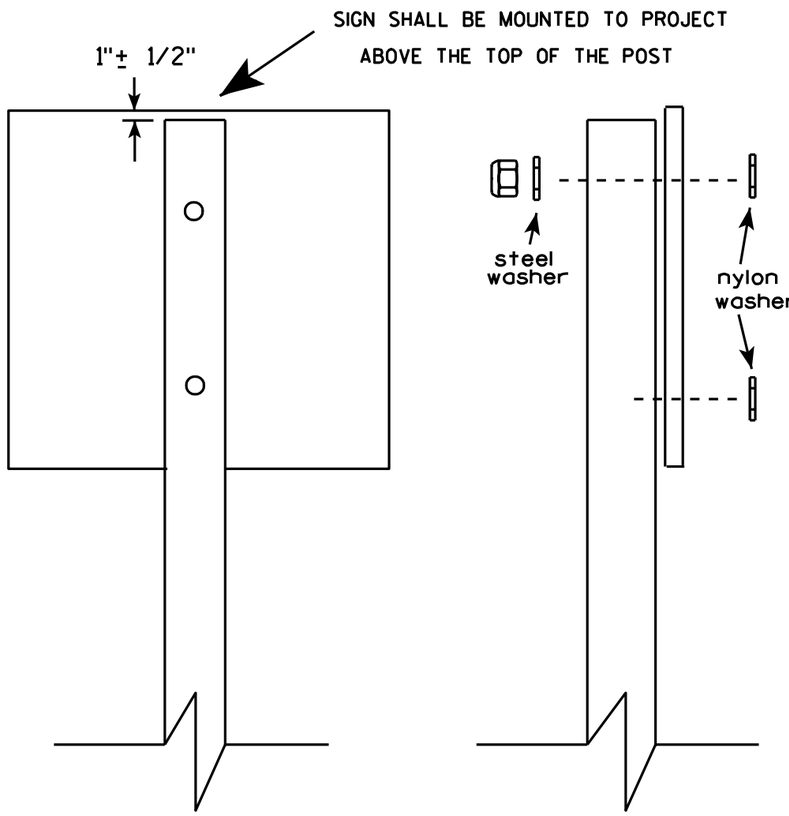
WISCONSIN DEPT OF TRANSPORTATION

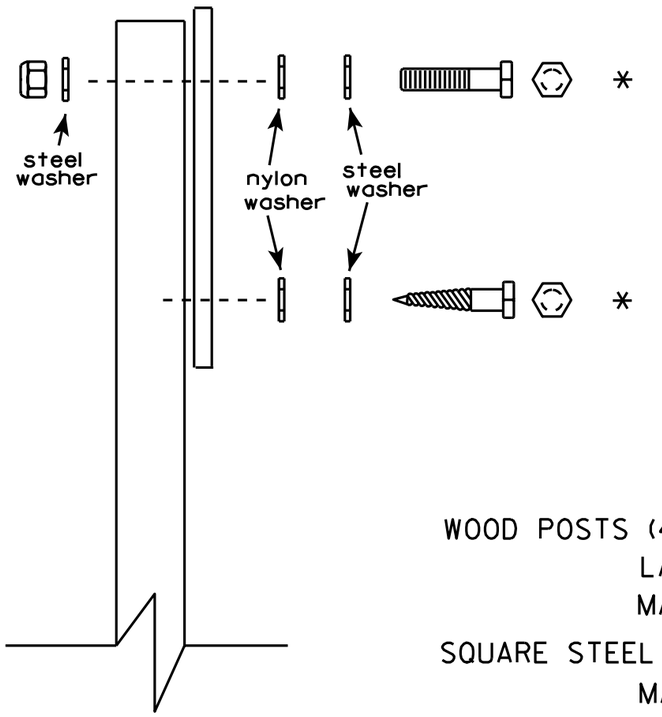
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/13 PLATE NO. A4-4 12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 30-SEP-2013 13:27 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000 WISDOT/CADDS SHEET 42





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

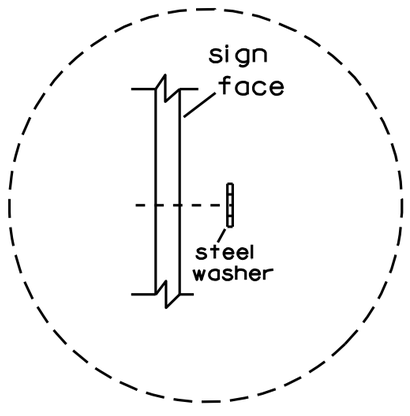
a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts

SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/10 PLATE NO. A4-8.7

7

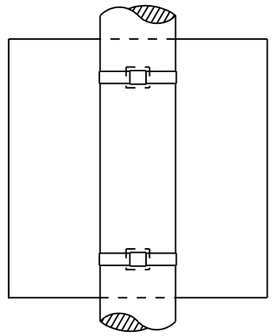
7

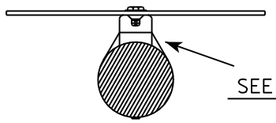
PROJECT NO:

SHEET NO: 109 E

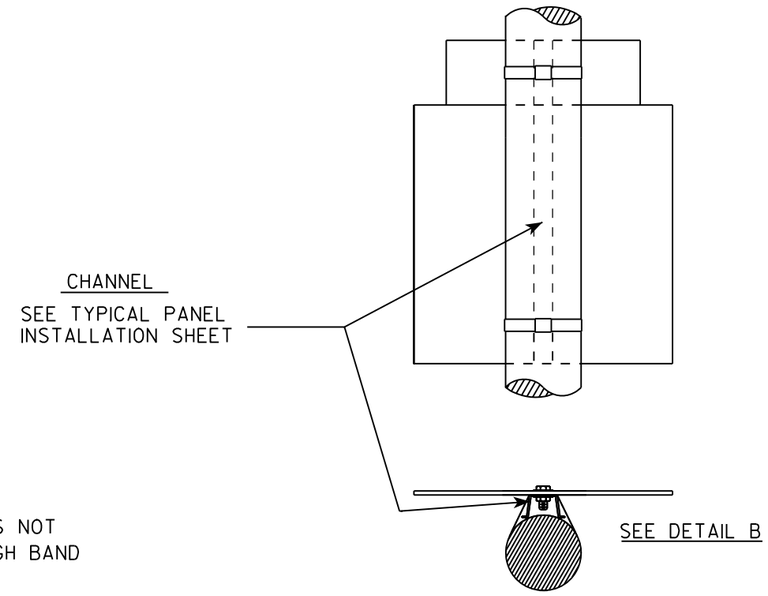
BANDING

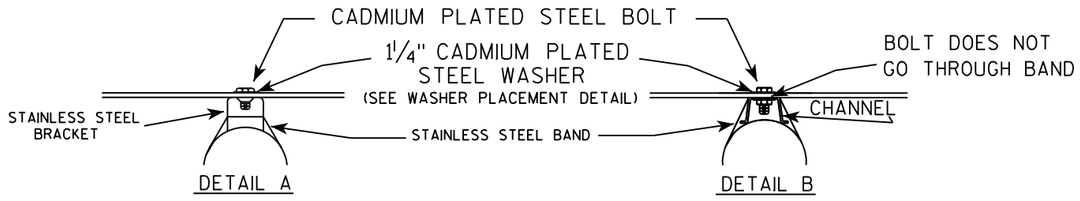
SINGLE SIGN



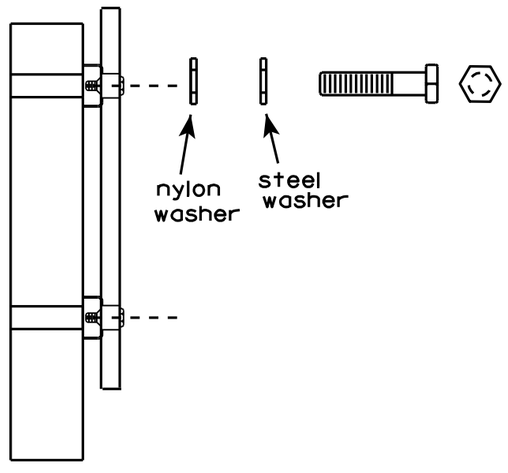


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

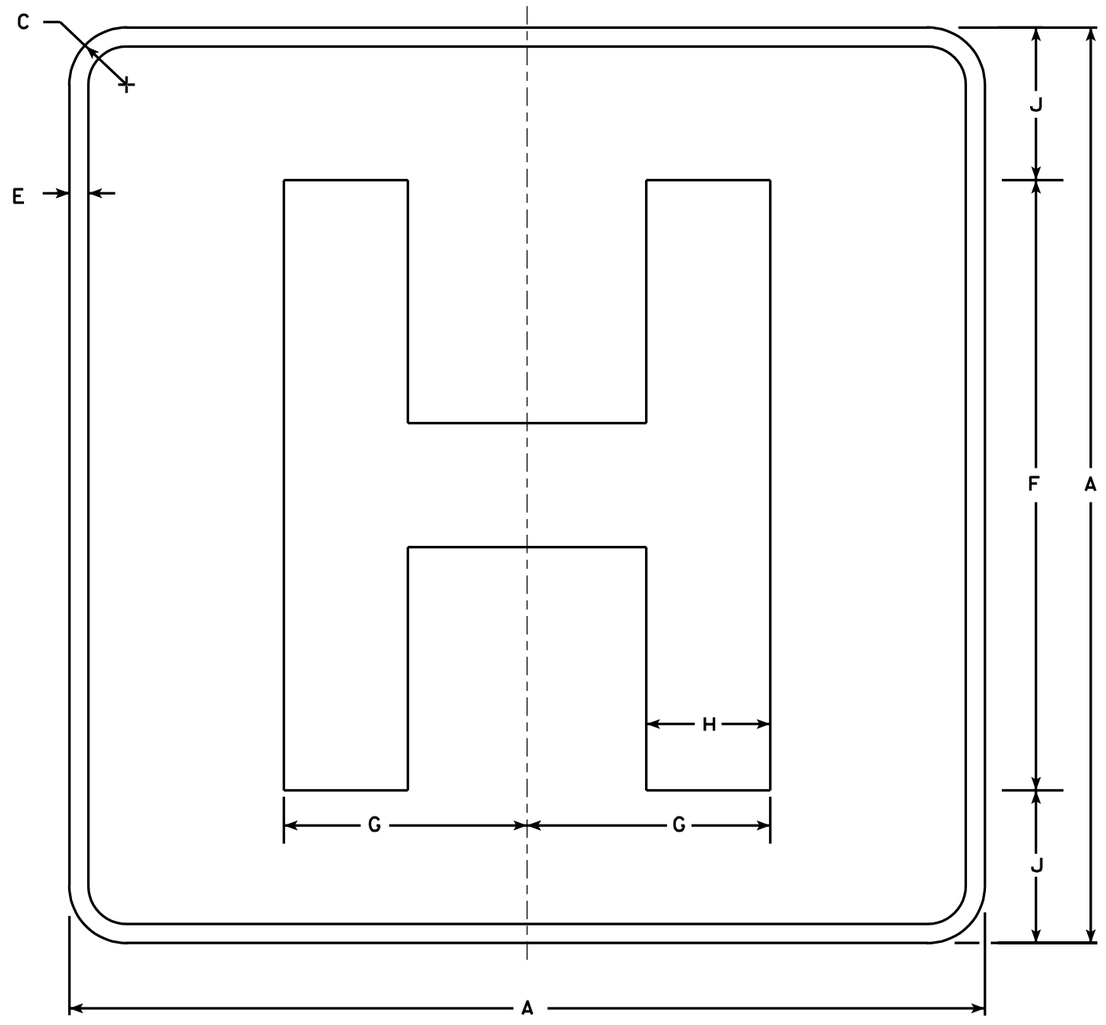
STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 110	E



D9-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Blue
   Message - White - Type H Reflective
3. Message Series - E Modified
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	450 mmX 450 mm
2	600 mmX 600 mm
3	900 mmX 900 mm
4	X
5	X

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		1/2	12	4 3/4	2 3/8		3																	4.0
2	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											

STANDARD SIGN
D9-2

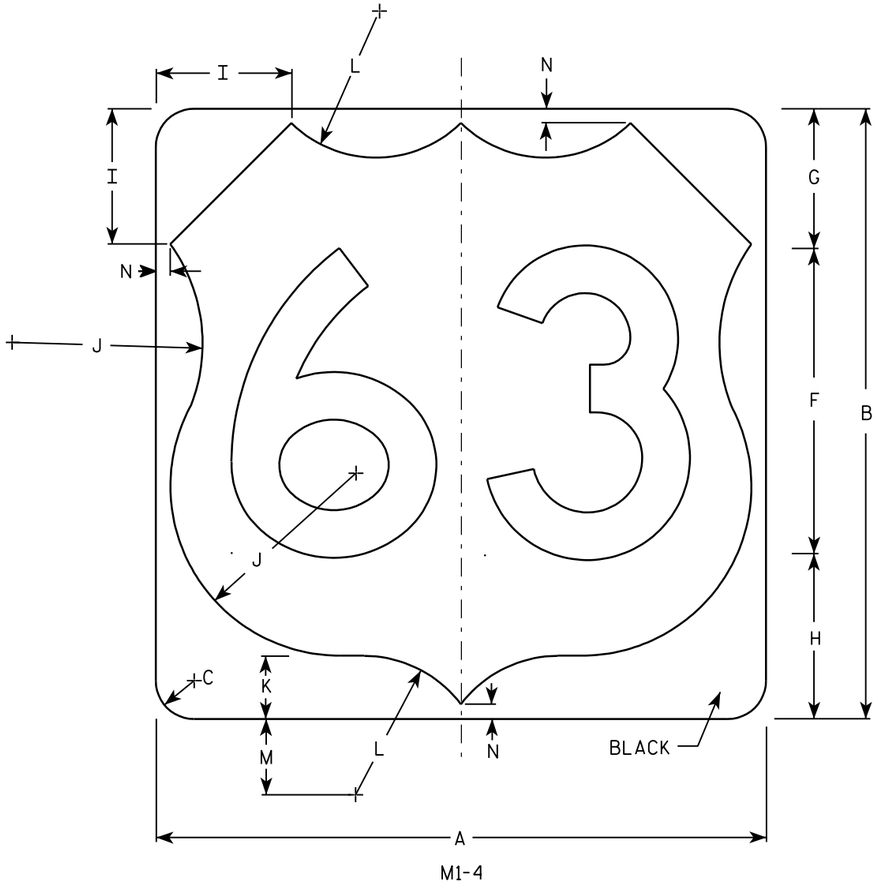
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spong for State Traffic Engineer

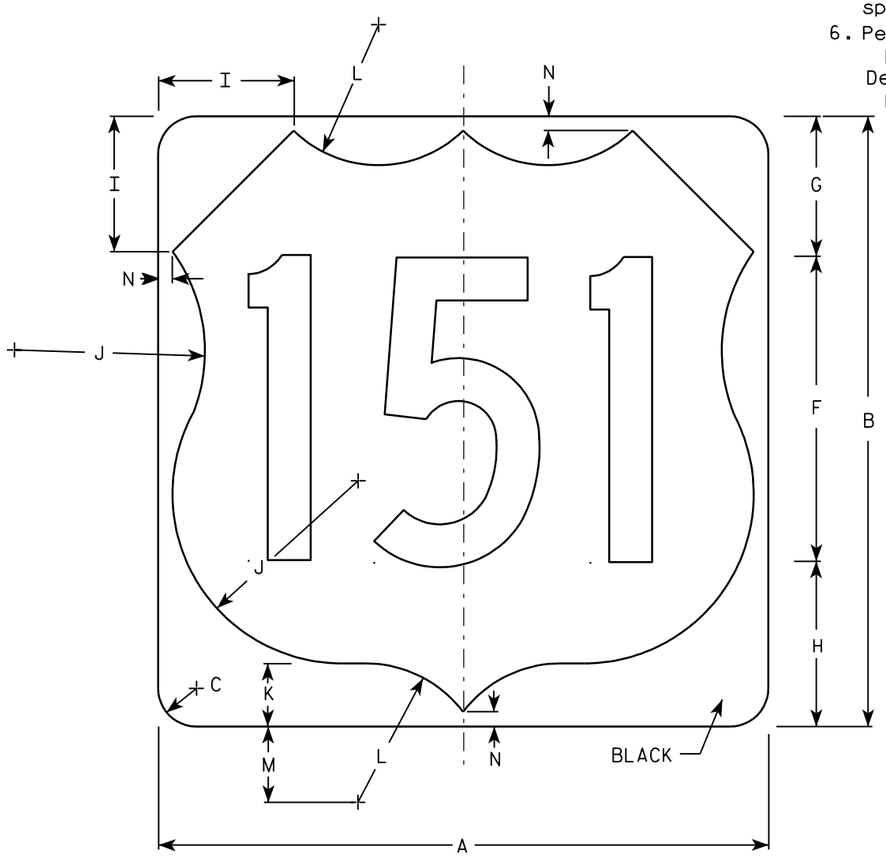
DATE 1/15/02 PLATE NO. D9-2.4

PROJECT NO:

SHEET NO: 111 E



M1-4



M1-4

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Areq. sq. ft.	Area m2
1																												
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

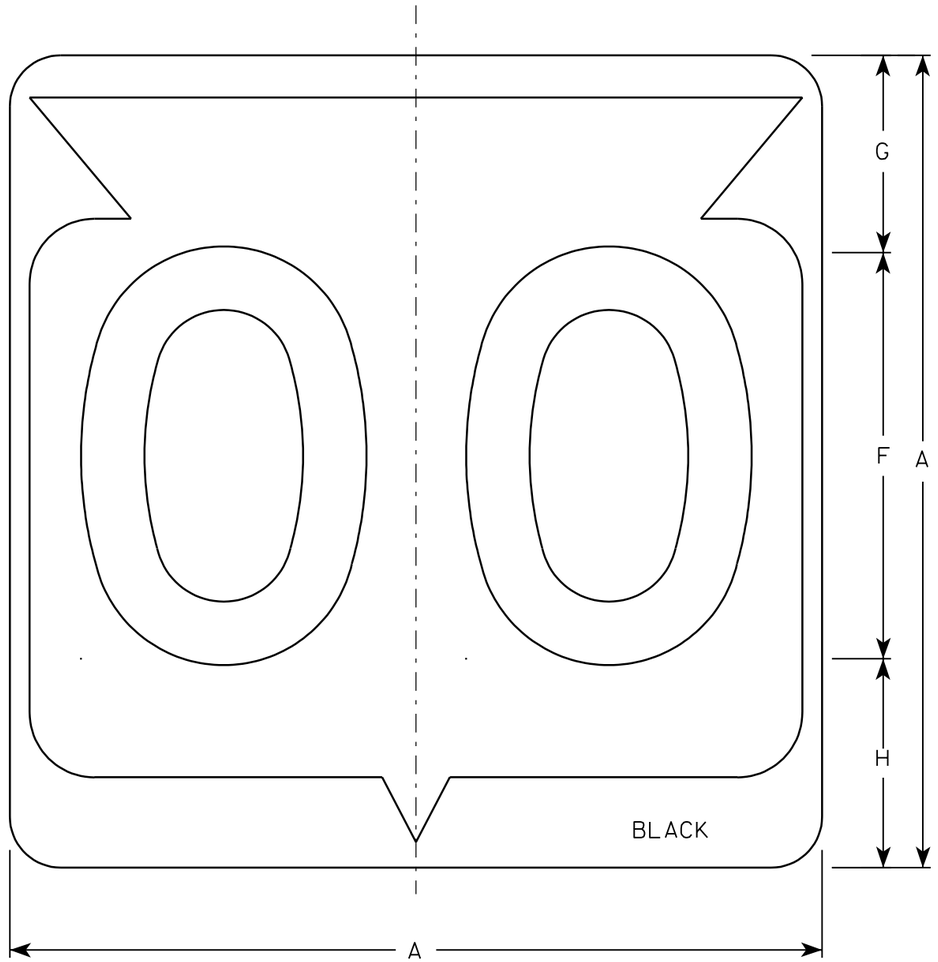
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/25/05 PLATE NO. M1-4.9

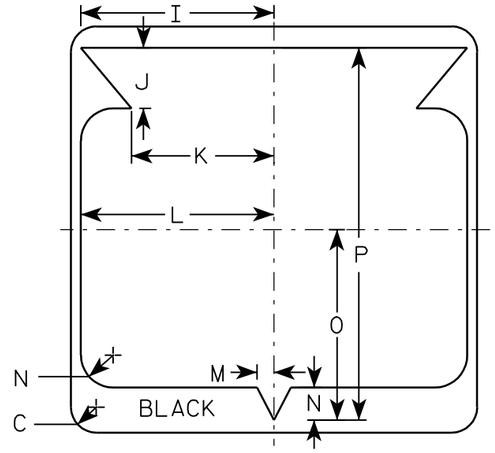
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 112 | E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

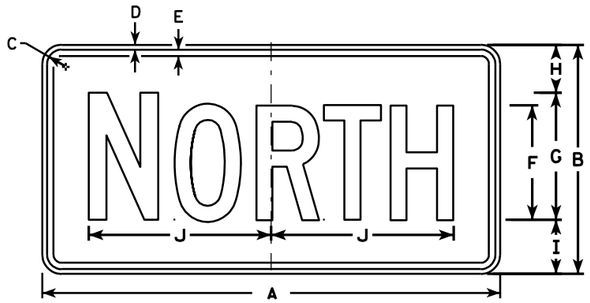
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

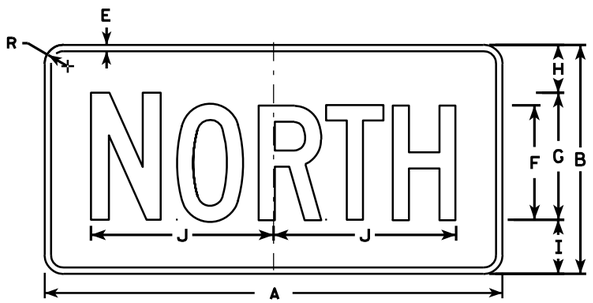
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 113	E



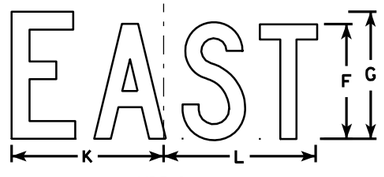
M3-1
MK3-1
MO3-1



MB3-1
MG3-1
MM3-1
MN3-1



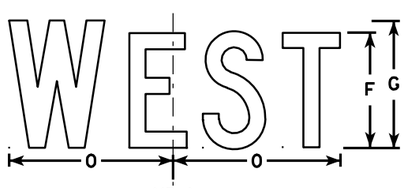
M3-2
MK3-2
MO3-2



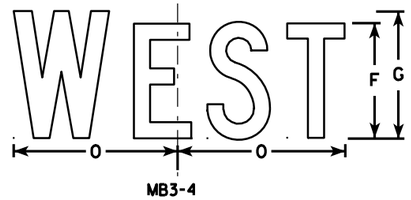
MB3-2
MG3-2
MM3-2
MN3-2

M3-3
MK3-3
MO3-3

MB3-3
MG3-3
MM3-3
MN3-3



M3-4
MK3-4
MO3-4



MB3-4
MG3-4
MM3-4
MN3-4

NOTES

1. All Signs Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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 - Type H Reflective (Detour or temporary signs - Reflective) Message - Black
   MB3-1 thru MB3-4 Background - Blue Message - White - Type H Reflective (Detour or temporary signs - Reflective)
   MG3-1 thru MG3-4 Background - Green Message - White - Type H Reflective
   MK3-1 thru MK3-4 Background - Green Message - White - Type H Reflective
   MM3-1 thru MM3-4 Background - White - Type H Reflective Message - Green
   MN3-1 thru MN3-4 Background - Brown Message - White - Type H Reflective
   M03-1 thru M03-4 Background - Orange - Reflective Message - Black
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

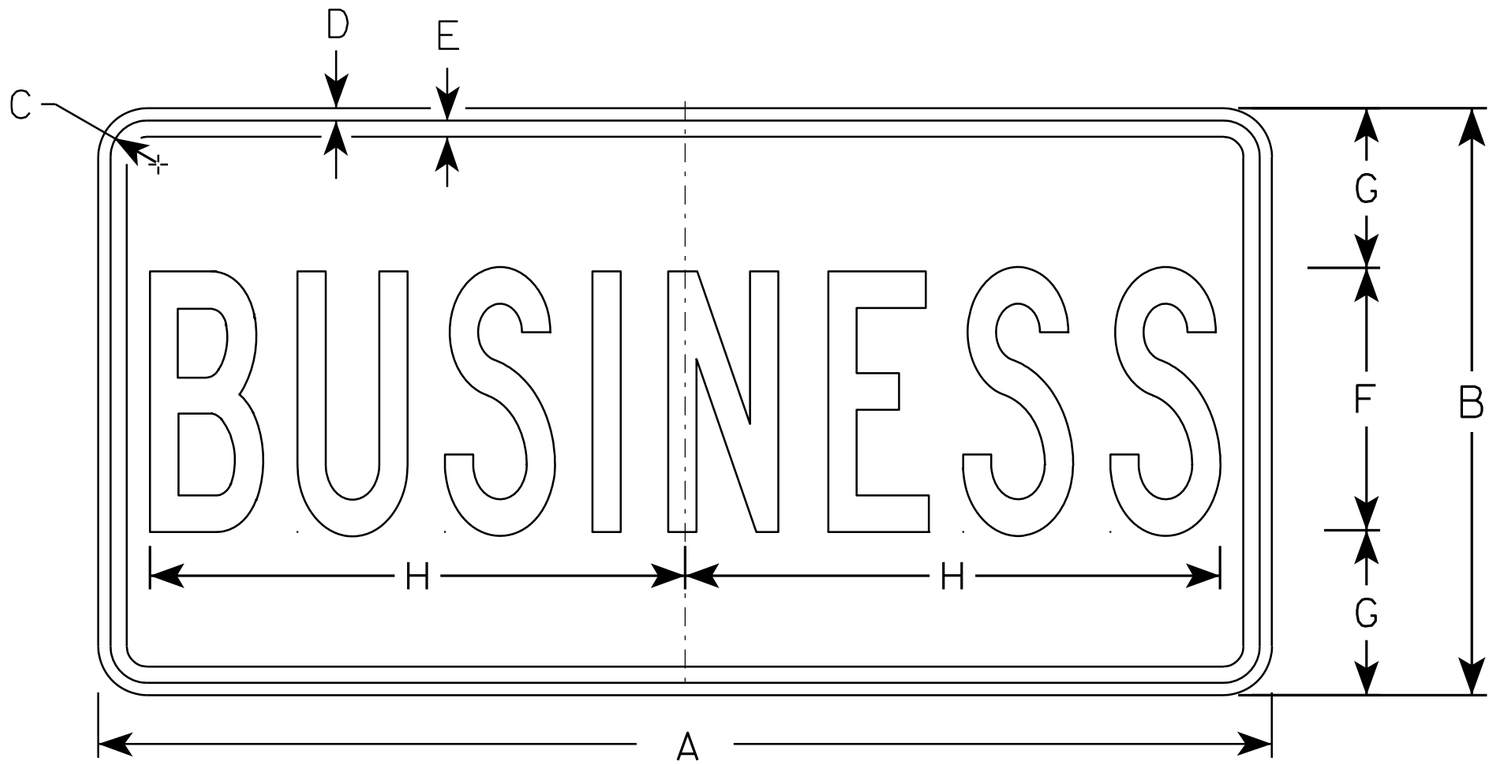
STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/10/10 PLATE NO. M3-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 114	E



M4-3

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White - See Note 5
   Message - Black
3. Message Series - 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. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	5	3 1/2	9 5/8																			2.0
3	36	18	1 1/8	3/8	1/2	8	5	16 3/8																			4.5
4																											
5																											

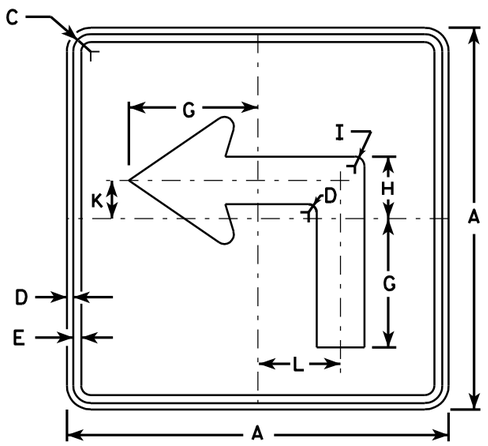
STANDARD SIGN
M4-3

WISCONSIN DEPT OF TRANSPORTATION

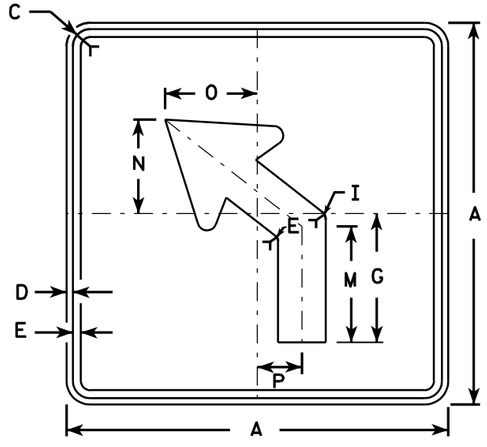
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-3.5

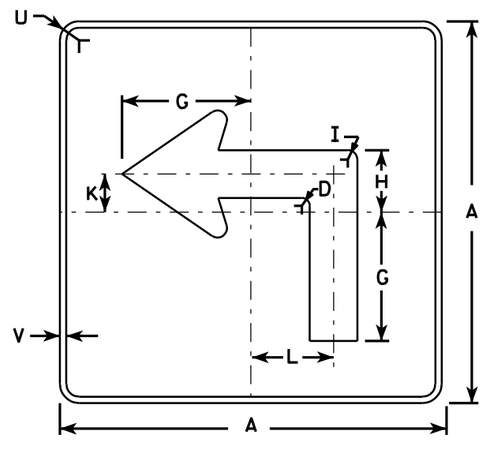
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 115 | E



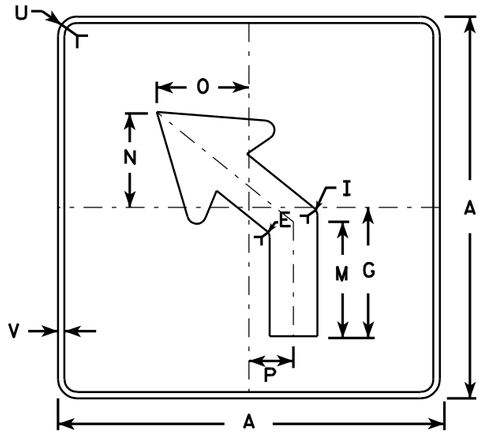
M5-1L
MK5-1L
MM5-1L
MO5-1L
MP5-1L
MR5-1L



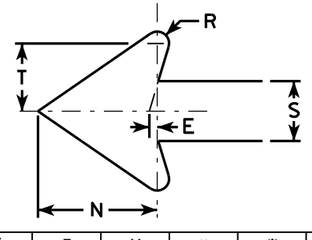
M5-2L
MK5-2L
MM5-2L
MO5-2L
MP5-2L
MR5-2L



MB5-1L
MG5-1L
MN5-1L



MB5-2L
MG5-2L
MN5-2L



NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White - Type H Reflective
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White - Type H Reflective
   MG5-1 and MG5-2 Background - Green
   Message - White - Type H Reflective
   MK5-1 and MK5-2 Background - Green
   Message - White Type H Reflective
   MM5-1 and MM5-2 Background - White - Type H Reflective
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White - Type H Reflective
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow - Type H Reflective
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

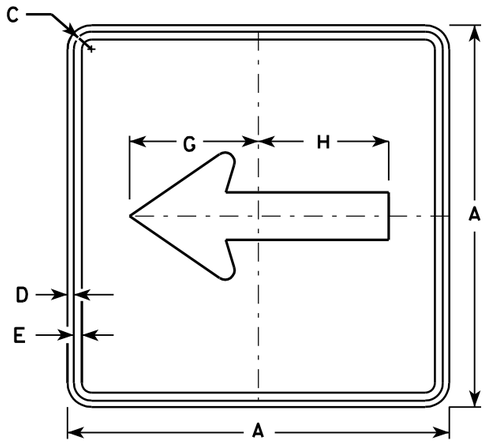
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

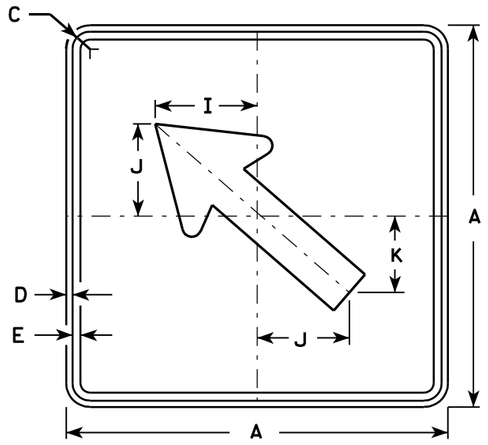
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/29/13 PLATE NO. M5-1.12

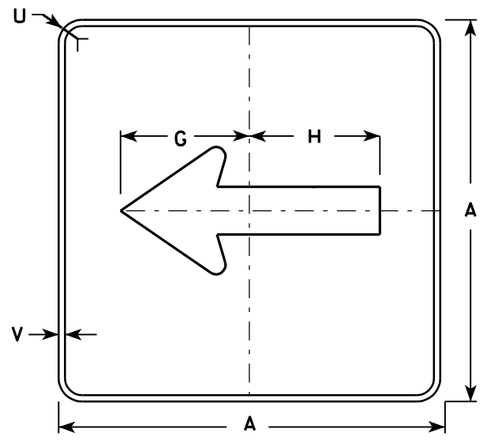
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 116 | E



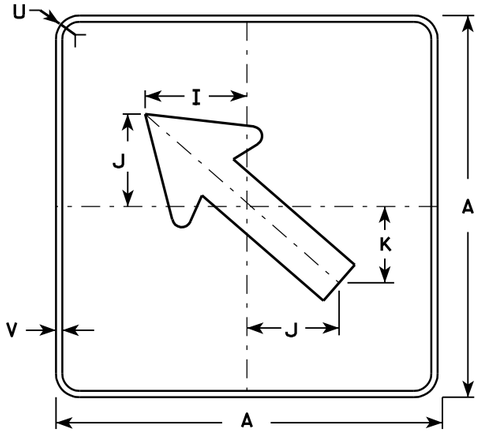
M6-1
MK6-1
MM6-1
MO6-1
MP6-1
MR6-1



M6-2
MK6-2
MM6-2
MO6-2
MP6-2
MR6-2



MB6-1
MG6-1
MN6-1



MB6-2
MG6-2
MN6-2

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White - Type H Reflective
   Message - Black

   MB6-1 and MB6-2 Background - Blue
   Message - White - Type H Reflective

   MG6-1 and MG6-2 Background - Green
   Message - White - Type H Reflective

   MK6-1 and MK6-2 Background - Green
   Message - White - Type H Reflective

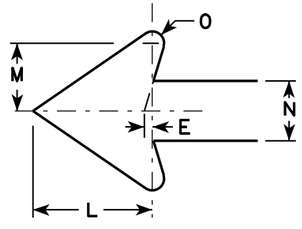
   MM6-1 and MM6-2 Background - White - Type H Reflective
   Message - Green

   MN6-1 and MN6-2 Background - Brown
   Message - White - Type H Reflective

   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black

   MP6-1 and MP6-2 Background - White - Type H Reflective
   Message - Blue

   MR6-1 and MR6-2 Background - Brown
   Message - Yellow - Type H 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	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

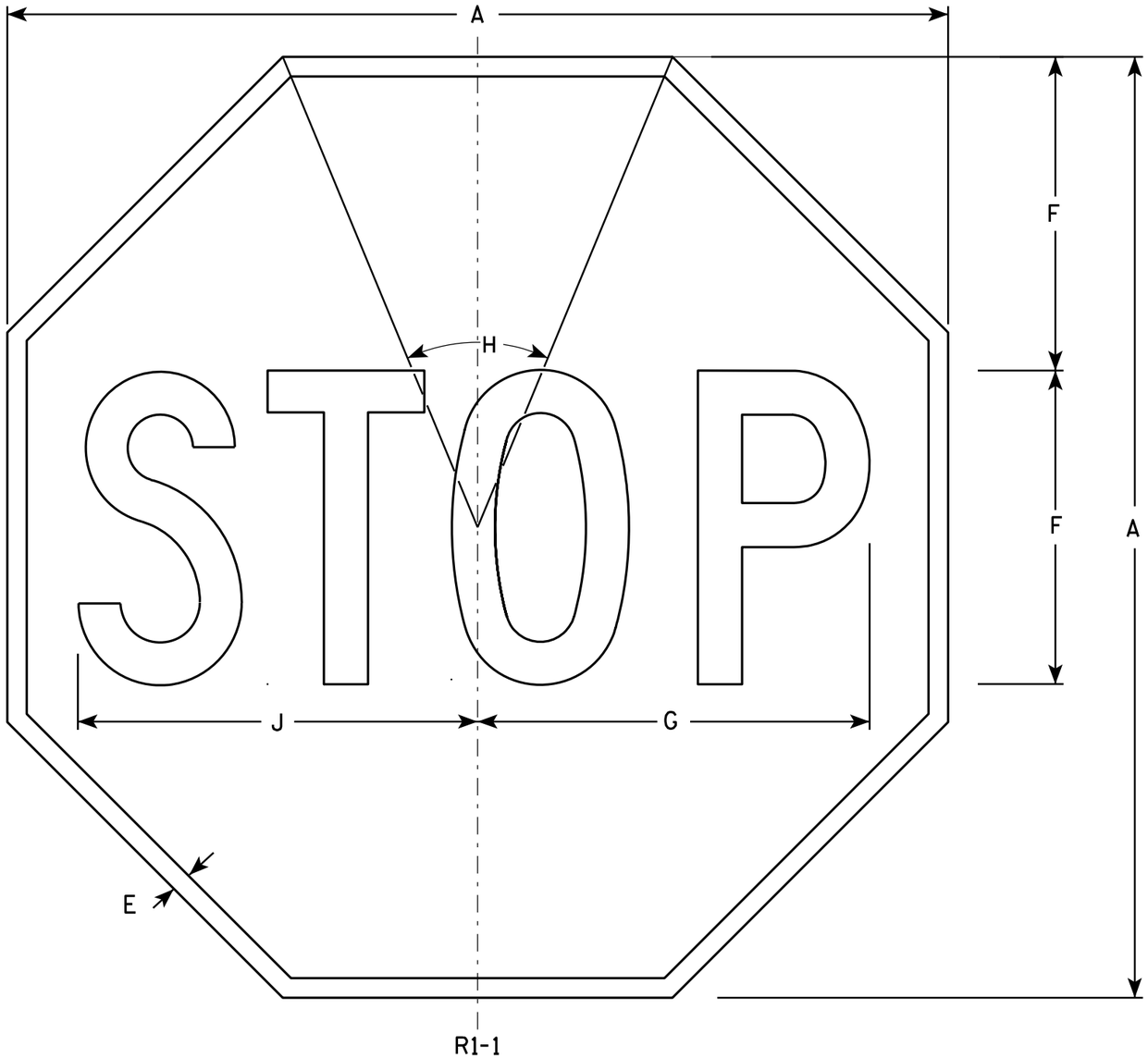
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/29/13 PLATE NO. M6-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 117	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

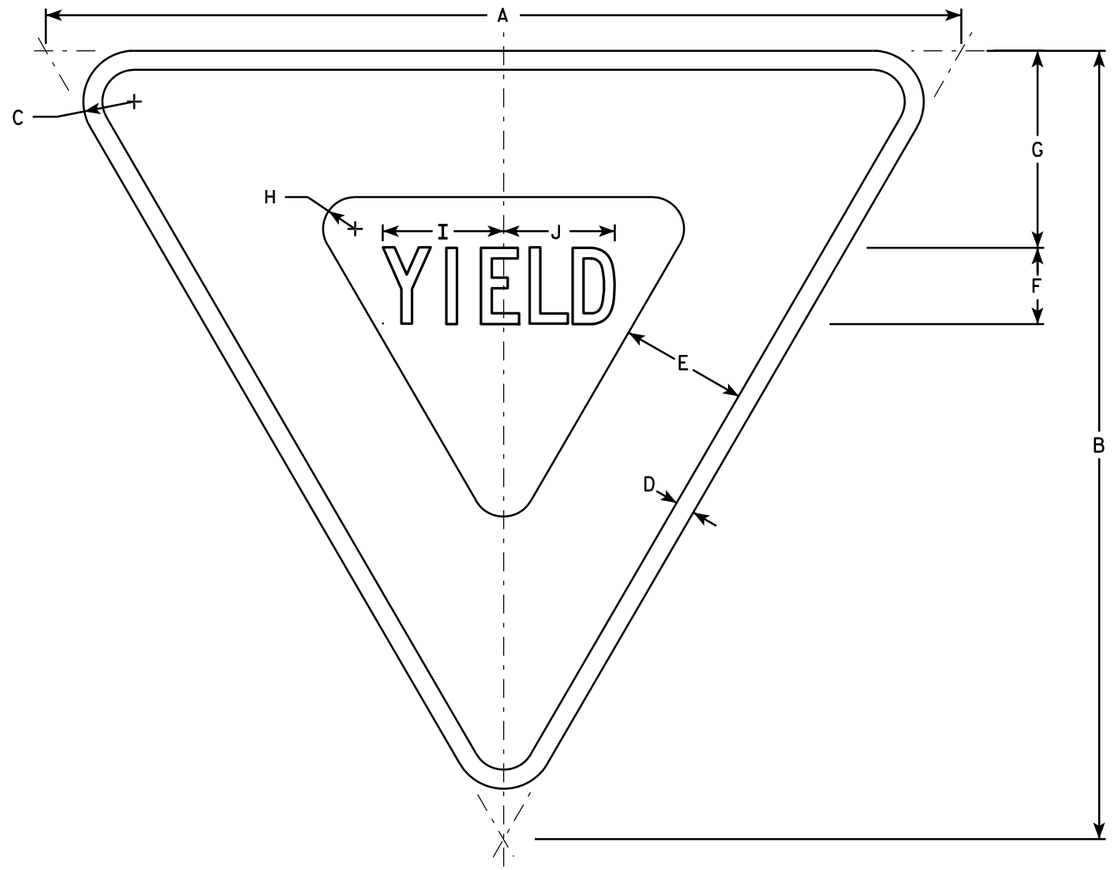
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 118	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	24	21	1 1/2	3/8	3	2	4 3/4	7/8	3 1/4	3																	1.75
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

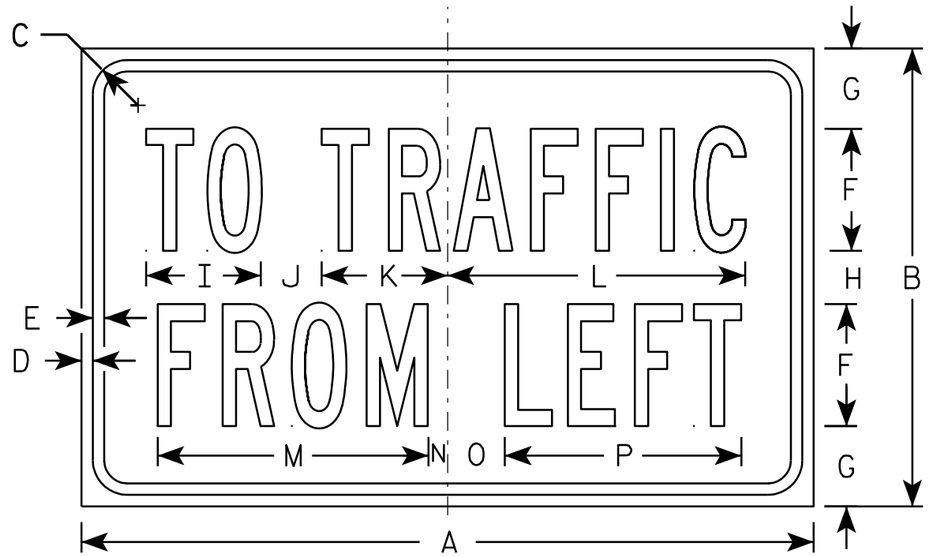
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. R1-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 119 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R12.DGN PLOT DATE : 02-NOV-2010 10:38 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.959043:1.000000
WISDOT/CADDS SHEET 42



R1-54

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
2M	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
3																											
4																											
5																											

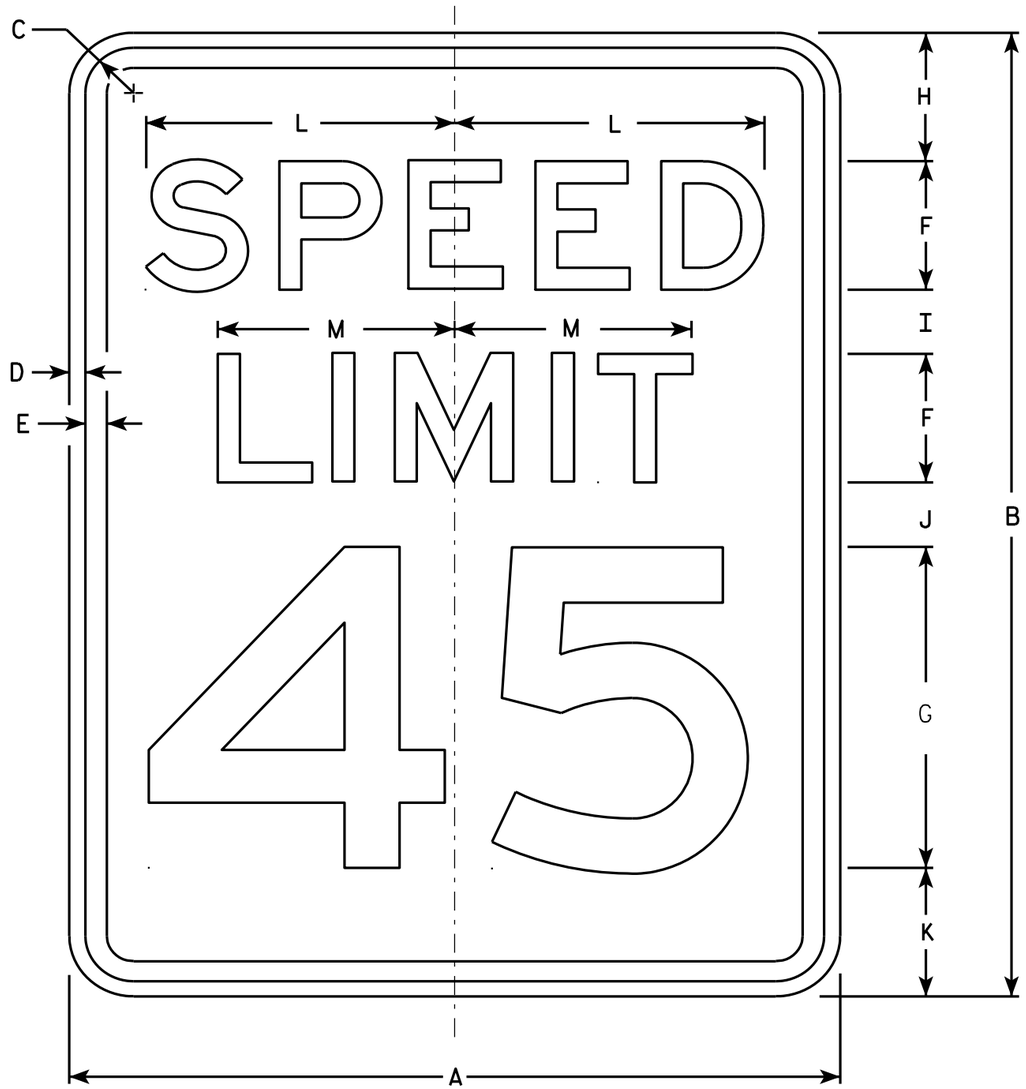
STANDARD SIGN
R1-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-54.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 120 | E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

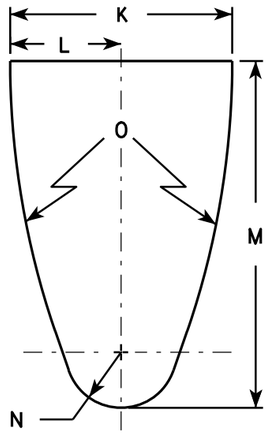
WISCONSIN DEPT OF TRANSPORTATION

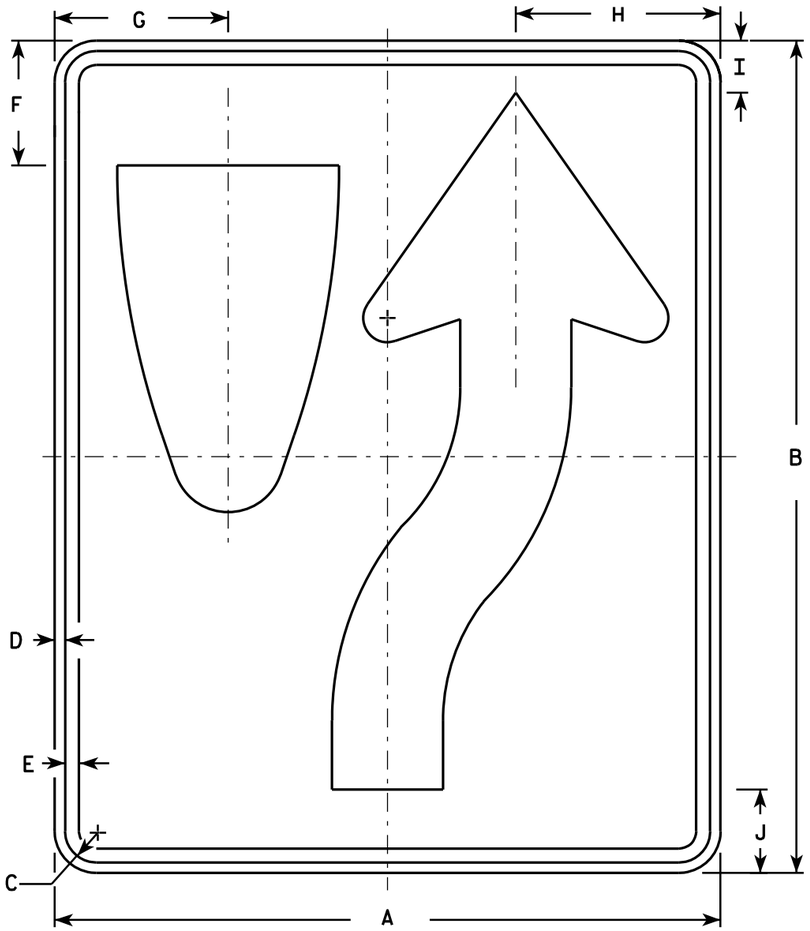
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 121 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000
WISDOT/CADDS SHEET 42

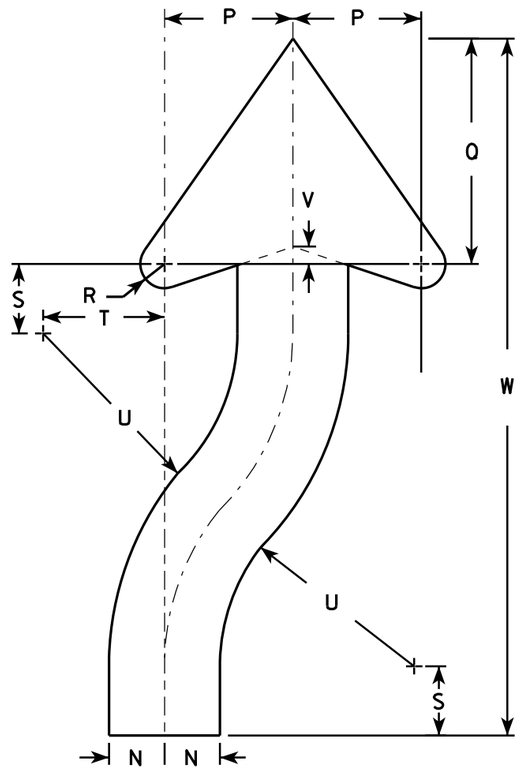




R4-7

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

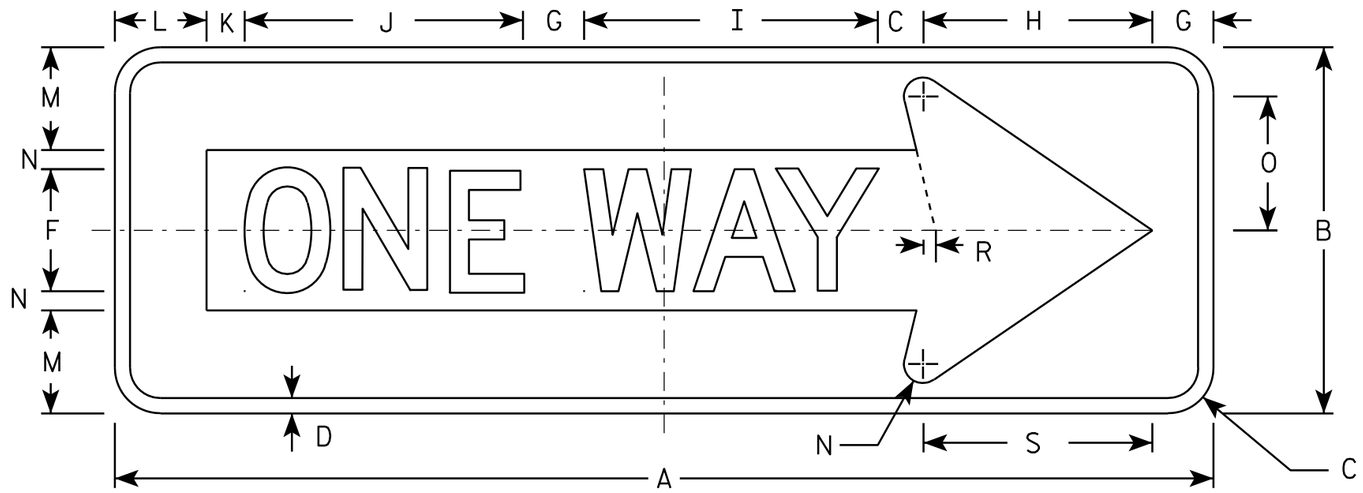
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

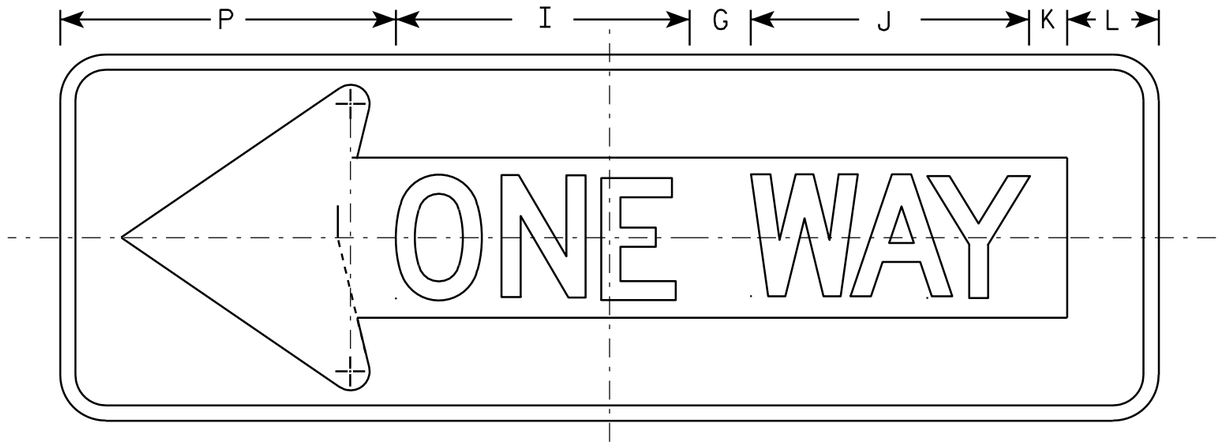
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 122	E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-1L

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 ½	½		4	2	7 ½	9 ⅝	9 ⅛	1 ¼	3	3 ⅜	⅝	4 ⅜	11		⅜	7 ½								3.0
2M	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
3	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
4	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
5																											

STANDARD SIGN
R6-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

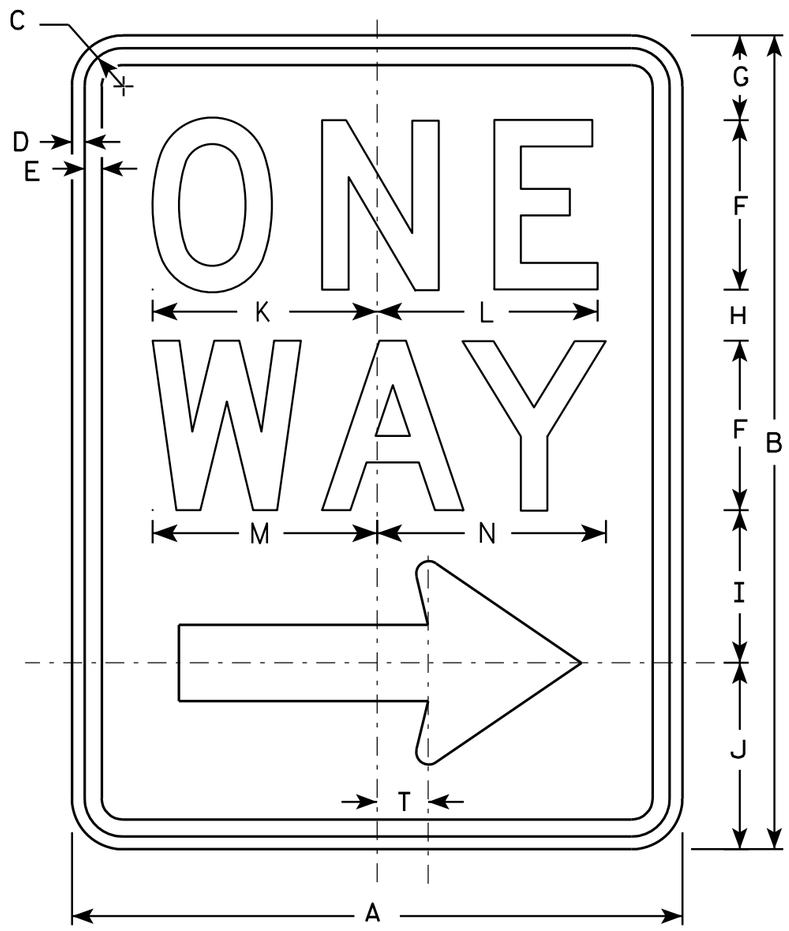
DATE 12/17/10 PLATE NO. R6-1.2

PROJECT NO:

SHEET NO: 123 E

7

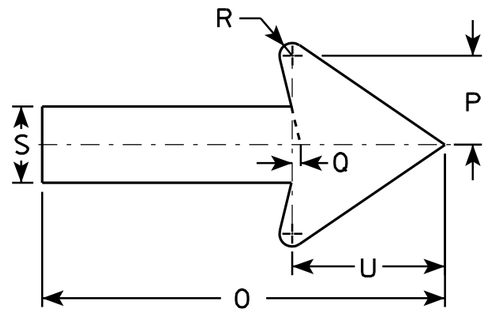
7



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	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

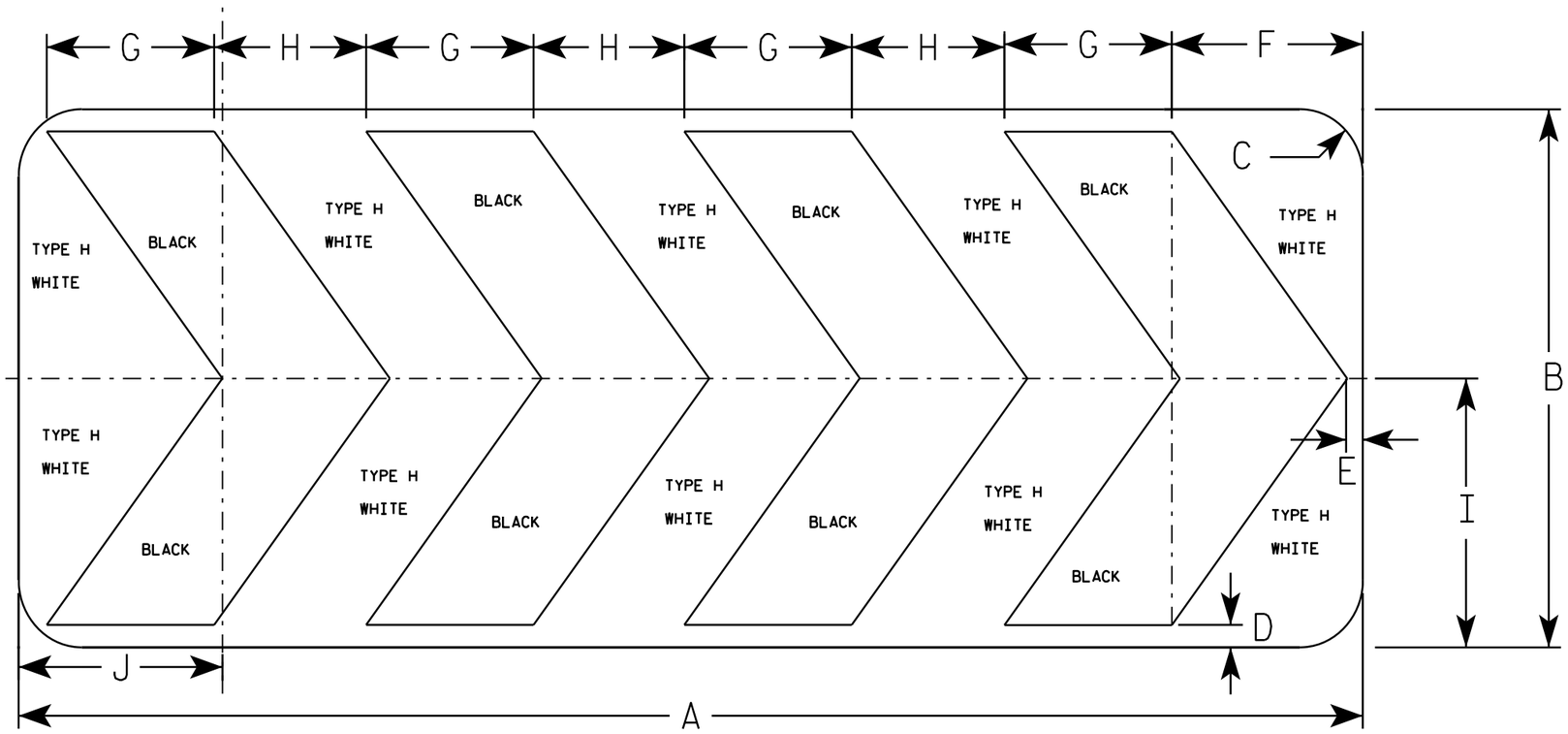
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 124	E

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. 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	2 1/4	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	2 1/4	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

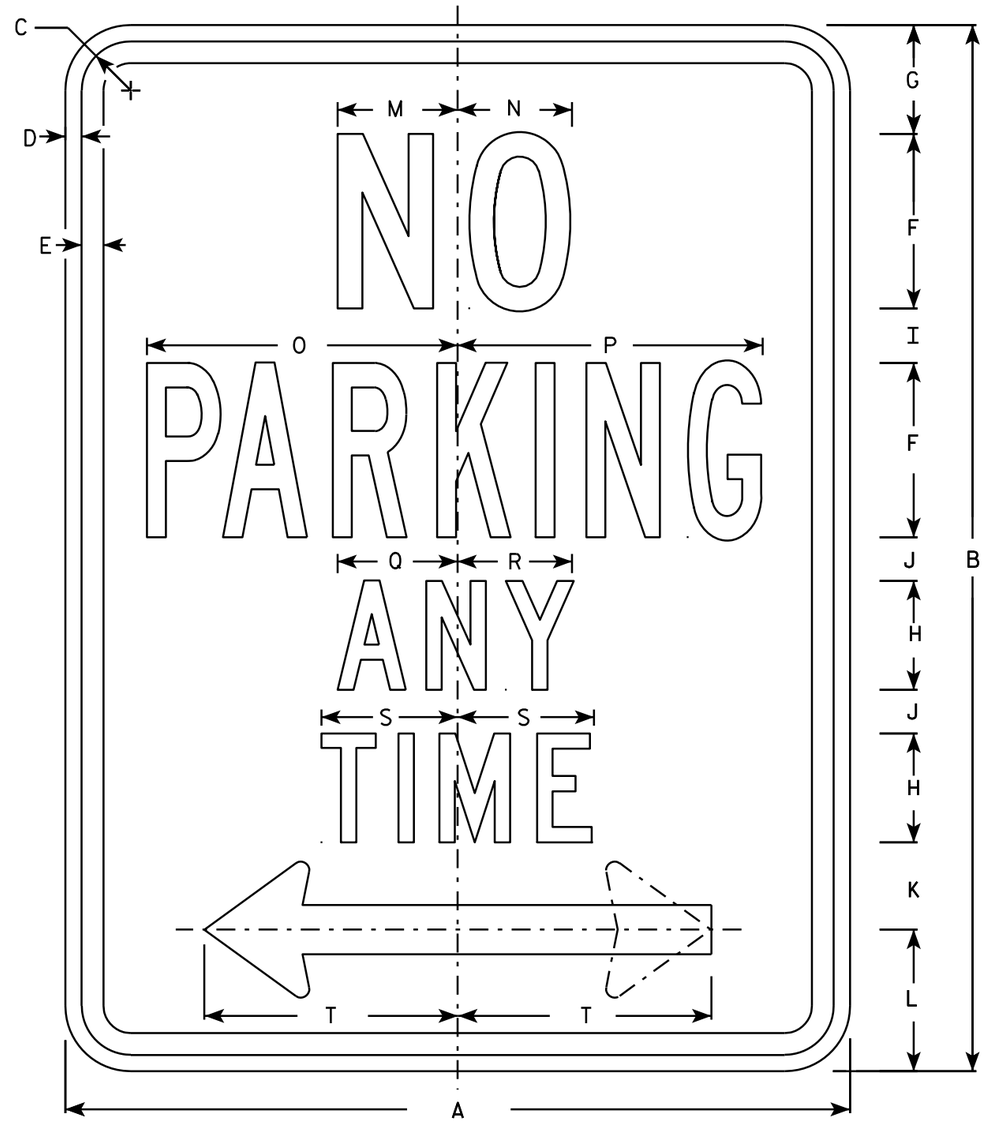
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/03/11 PLATE NO. R6-4B.2

PROJECT NO:

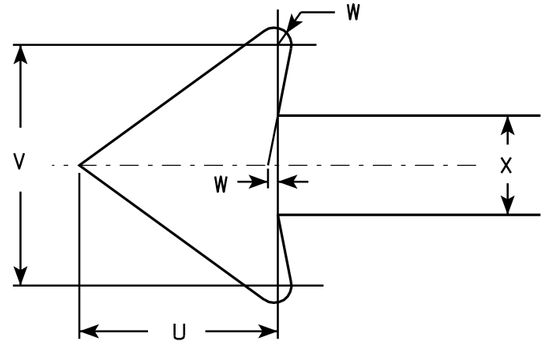
SHEET NO: 125 E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

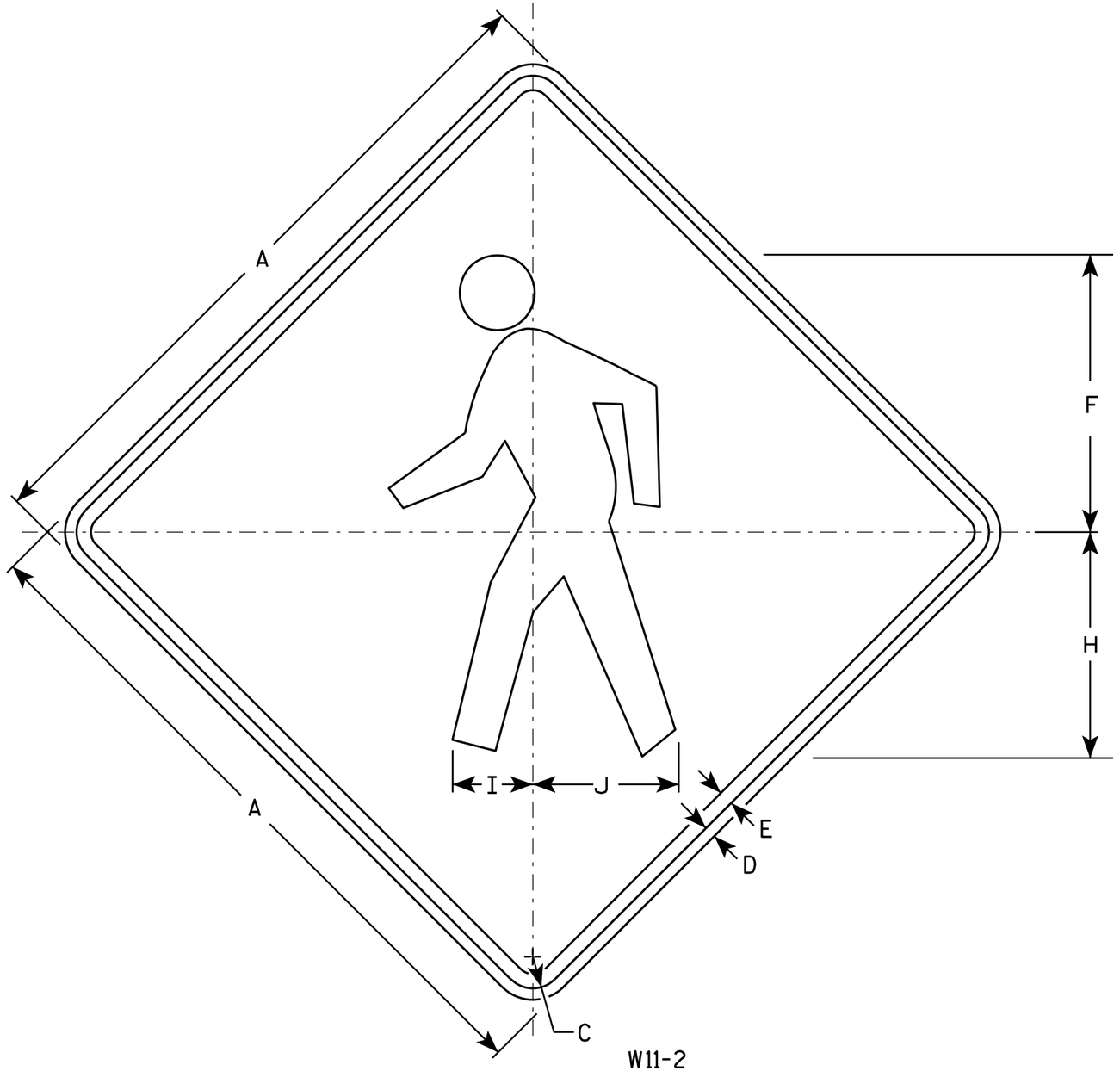
STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 126	E



W11-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

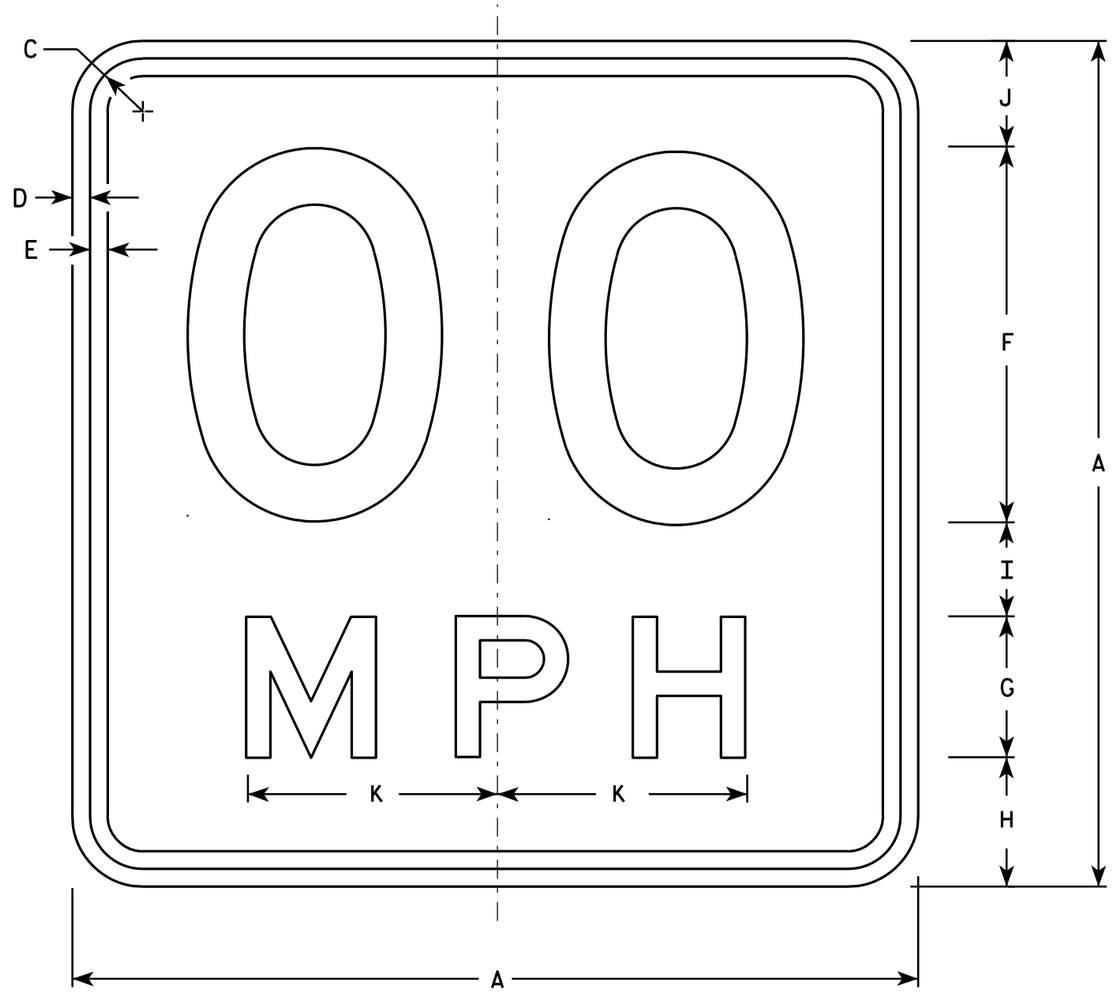
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W11-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 127	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

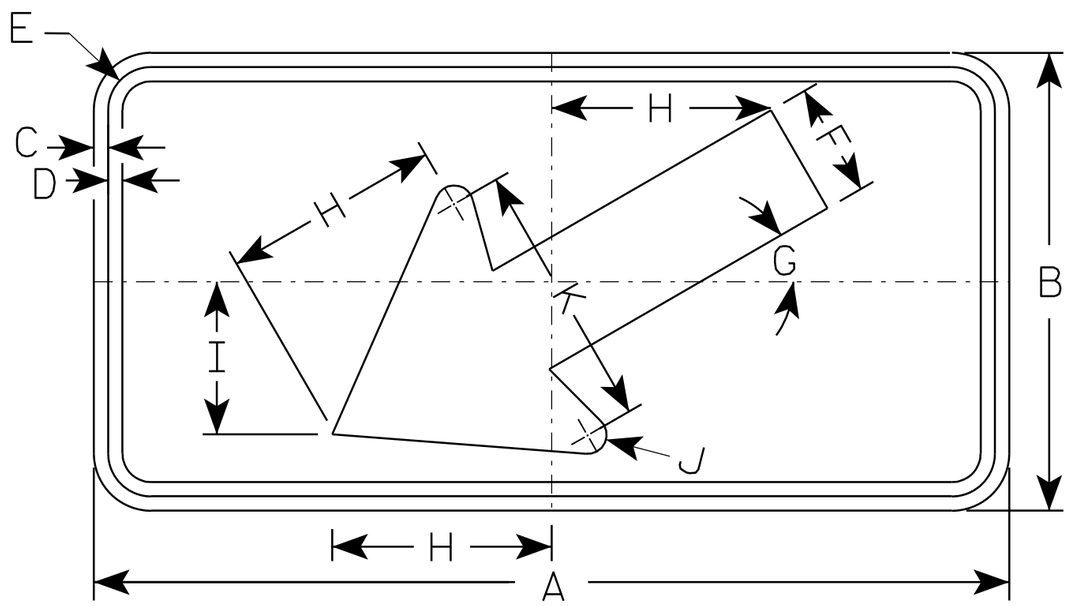
STANDARD SIGN
W13-1

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: 128	E



W16-7L

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W16-7R is the same as W16-L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4																											8
5																											8

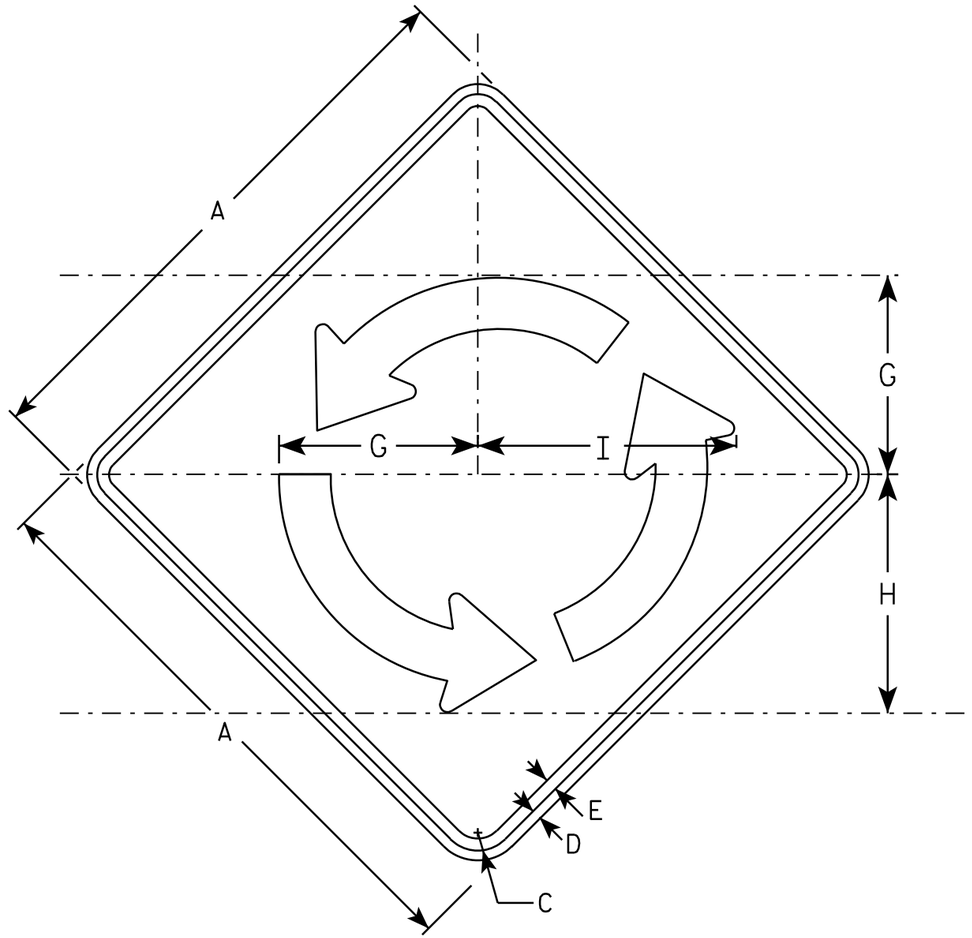
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. W16-7.5

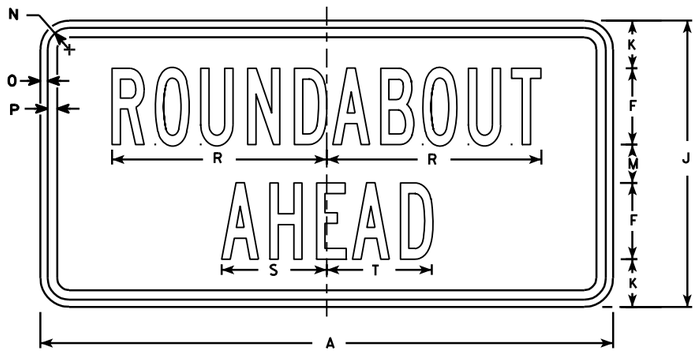
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 129	E



W2-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Message - BLACK
3. 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.



W2-6P

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	W2-6 Area sq. ft.	W2-6P Area sq. ft.
1																										
2S	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
2M	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
3	36		1 5/8	5/8	3/4	5	12 1/2	15	16 1/4	18	2 5/8		2 3/4	1 1/8	3/8	1/2		14	7	6 3/4					9.00	4.50
4	48		2 1/4	3/4	1	6	16 5/8	20	16 1/4	24	4 3/8		3 5/8	1 3/8	1/2	5/8		17	8 1/4	8 1/4					16.0	8.0
5																										

STANDARD SIGN
W2-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/29/12 PLATE NO. W2-6.5

PROJECT NO:

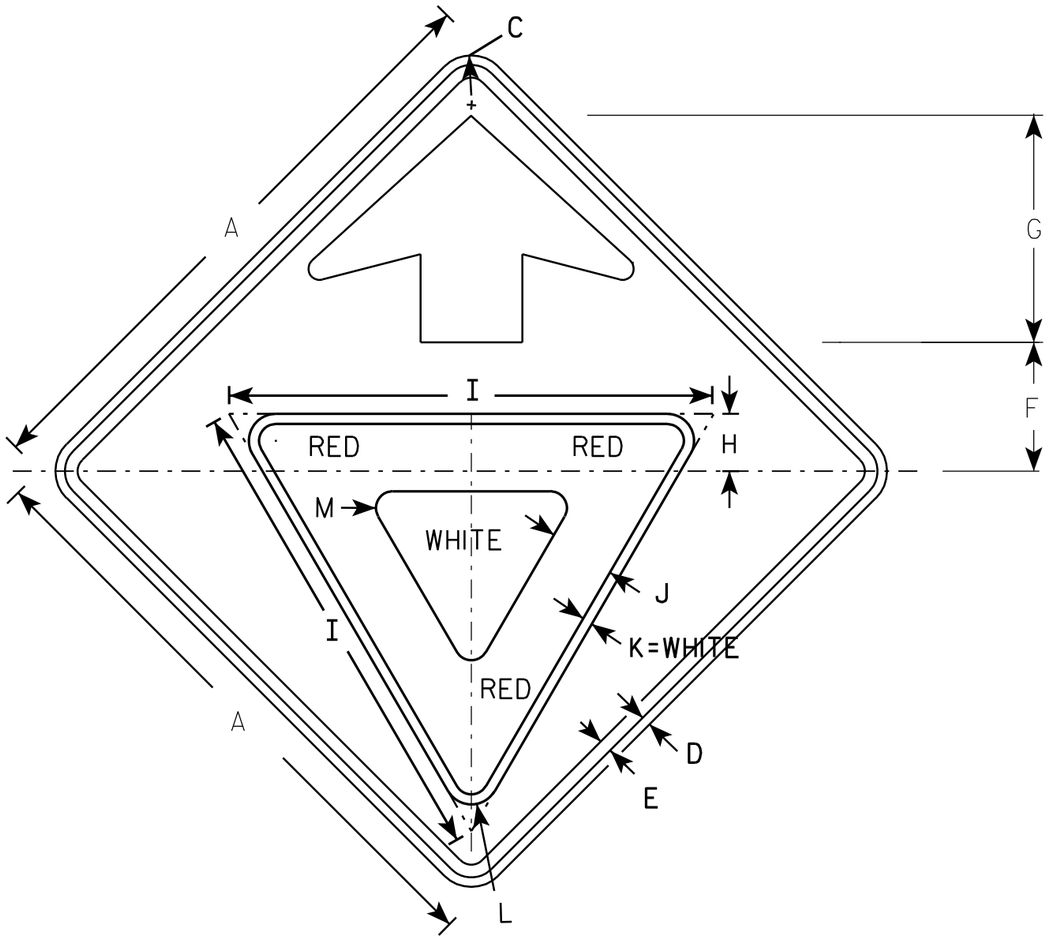
SHEET NO: 130 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W26.DGN PLOT DATE : 29-JUN-2012 10:15 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

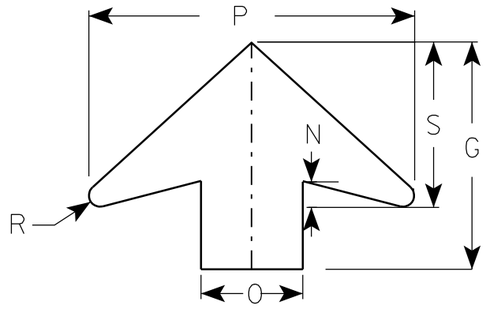
7



W3-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

PROJECT NO:

SHEET NO: 131 E

SOUTH BOULEVARD

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
158+00.00	0	128	23	0	0	0	0	0	0	0
158+50.00	50	157	23	0	264	42	1	264	1	222
158+82.00	32	131	23	0	170	27	0	434	1	365
159+00.00	18	119	23	1	83	15	0	518	1	433
159+50.00	50	149	23	0	248	42	1	766	2	638
160+00.00	50	131	23	0	259	42	0	1025	3	856
160+30.00	30	152	23	0	157	25	0	1182	3	988
160+50.00	20	140	23	0	108	17	0	1290	3	1079
161+00.00	50	119	23	1	240	42	1	1530	4	1276
161+30.00	30	123	23	0	135	25	1	1665	5	1385
161+50.00	20	109	23	2	86	17	1	1751	5	1453
162+00.00	50	107	23	2	200	42	4	1951	10	1608
162+50.00	50	118	23	3	209	42	5	2159	16	1768
162+75.00	25	96	23	14	99	21	8	2258	26	1836
					2258	396	21			

SOUTH BOULEVARD

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
164+25.00		65	33	15	0	0	0	0	0	0
164+50.00	25	73	33	10	64	49	12	64	15	0
165+00.00	50	98	33	5	158	61	14	222	31	81
165+25.00	25	109	33	1	96	30	3	317	35	143
165+50.00	25	97	33	1	95	30	1	413	36	207
166+00.00	50	91	33	0	174	49	1	587	37	331
166+50.00	50	88	33	0	166	61	0	752	37	436
166+76.00	26	99	33	0	90	32	0	842	37	494
167+00.00	24	103	33	0	90	29	0	932	37	555
167+50.00	50	111	33	0	199	61	0	1131	37	693
168+00.00	50	103	33	0	199	61	0	1329	37	830
168+33.00	33	91	33	0	119	40	0	1448	37	909
168+50.00	17	71	33	8	51	21	3	1499	40	936
168+68.00	18	74	33	4	48	22	4	1547	45	957
169+00.00	32	96	33	0	100	39	3	1648	49	1015
169+50.00	50	83	33	6	165	61	6	1813	56	1112
169+71.00	21	91	33	1	68	26	3	1881	59	1151
170+00.00	29	85	33	5	94	35	3	1975	63	1206
170+05.00	5	85	33	5	16	6	1	1991	65	1214
					1991	712	52			

SOUTH BOULEVARD - ROUNDABOUT

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
40+40.00		133	20	117	0	0	0	0	0	0
40+65.00	25	119	19	113	116	18	106	116	133	-34
41+00.00	35	164	19	104	183	25	141	300	309	-52
41+60.00	60	130	20	119	327	43	249	627	619	-79
					627	86	496			

PARKWAY (STH 123)

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
200+25.00		92	22	11	0	0	0	0	0	0
200+50.00	25	79	23	12	79	21	10	79	13	46
201+00.00	50	87	23	4	154	42	15	233	31	139
201+30.00	30	112	23	0	110	25	2	343	34	221
201+50.00	20	108	22	0	82	17	0	425	34	286
201+65.00	15	99	22	0	58	12	0	483	35	331
					483	117	28			

9

9

PROJECT NO: 5971-02-71 | HWY: SOUTH BOULEVARD | COUNTY: SAUK | EARTHWORK | SHEET 132 | E

60 50 40 30 20 10 0 10 20 30 40 50 60 70

850
845

R/W

848.22
-31.55

845.64
-26.41

846.17
0.00

845.68
24.50

847.86
31.62

10.0%

8.7%

158+82.00

855
850
845

BLDG

R/W

846.87
-41.00

846.25
-21.00

846.67
0.00

846.18
24.50

848.85
35.00

158+50.00

R/W

R/W

849.71
-31.76

846.97
-24.50

847.46
0.00

846.97
24.50

849.57
35.00

158+00.00

5 FT

5 FT

60 50 40 30 20 10 0 10 20 30 40 50 60 70

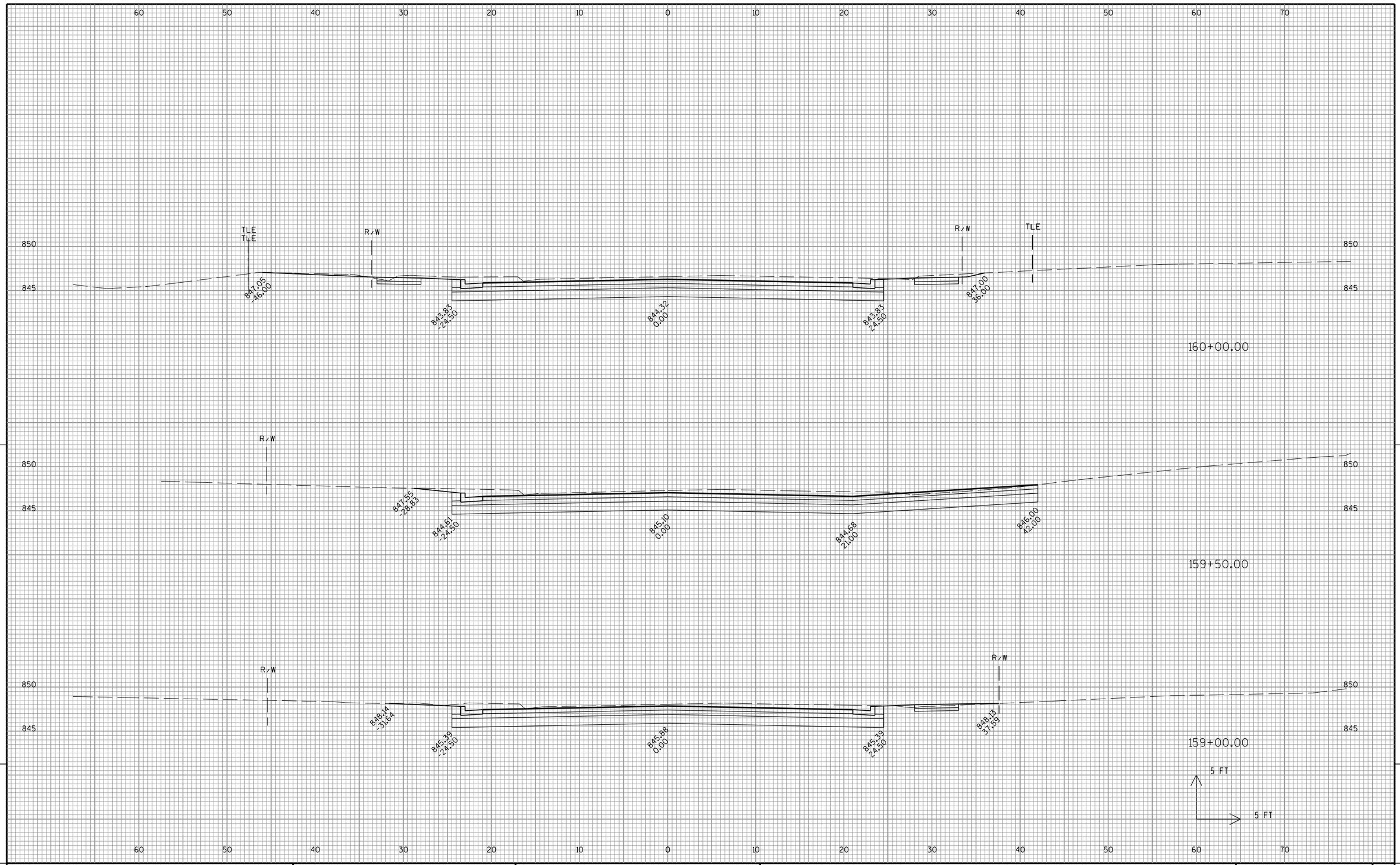
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PROJECT NO:5971-02-71	HWY:SOUTH BOULEVARD	COUNTY:SAUK	CROSS SECTIONS:SOUTH BOULEVARD	SHEET 133	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\090202_xs.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

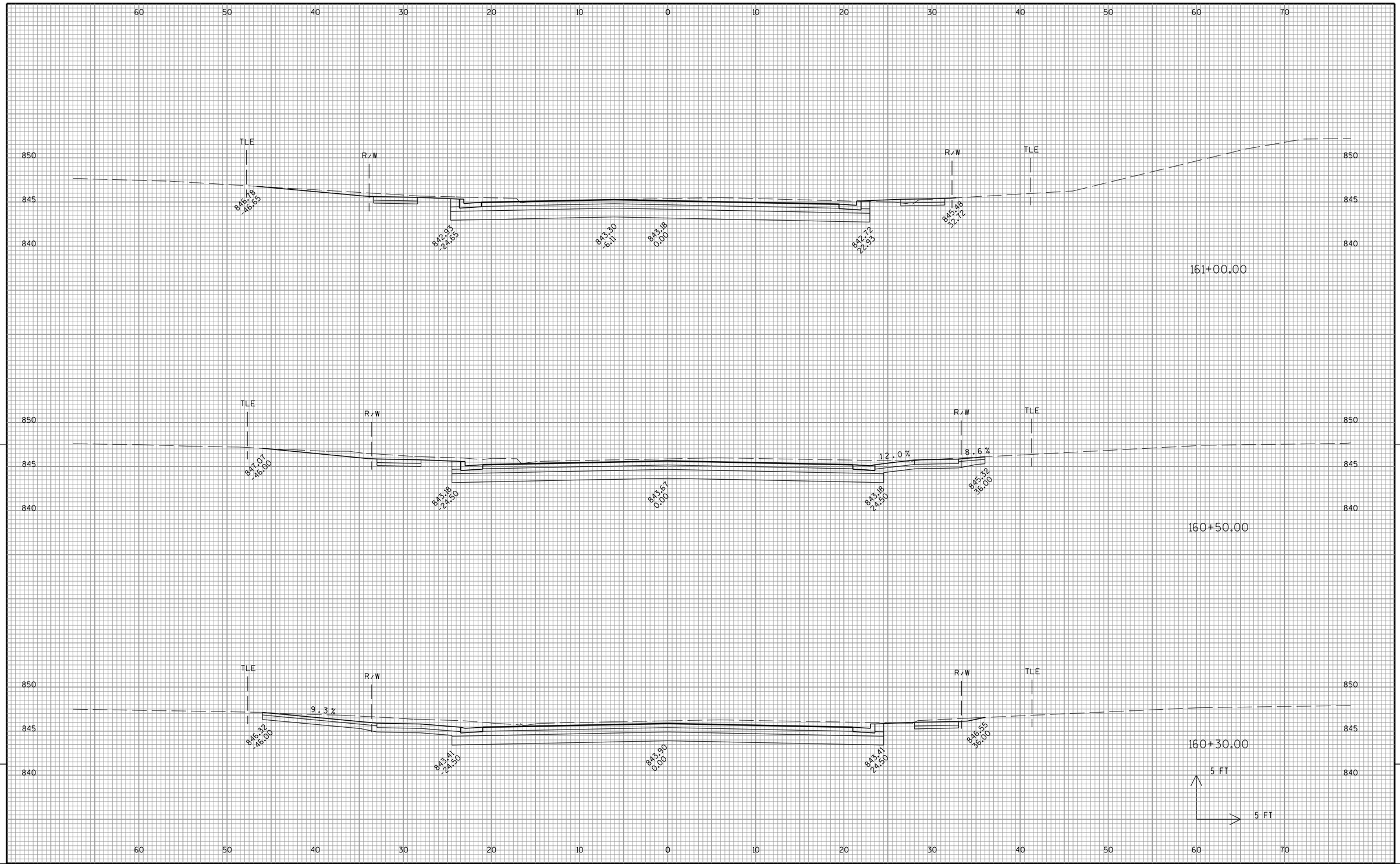
WISDOT/CADDS SHEET 21



PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 134	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\090202_xs.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



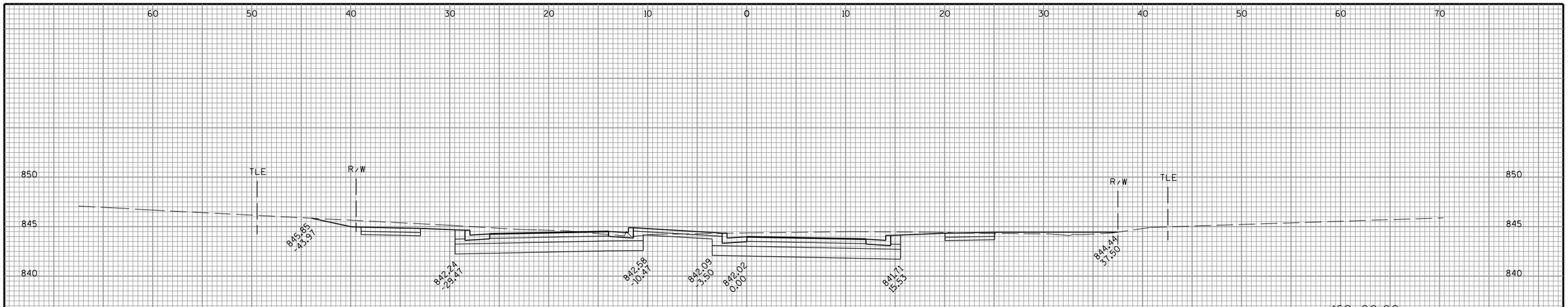
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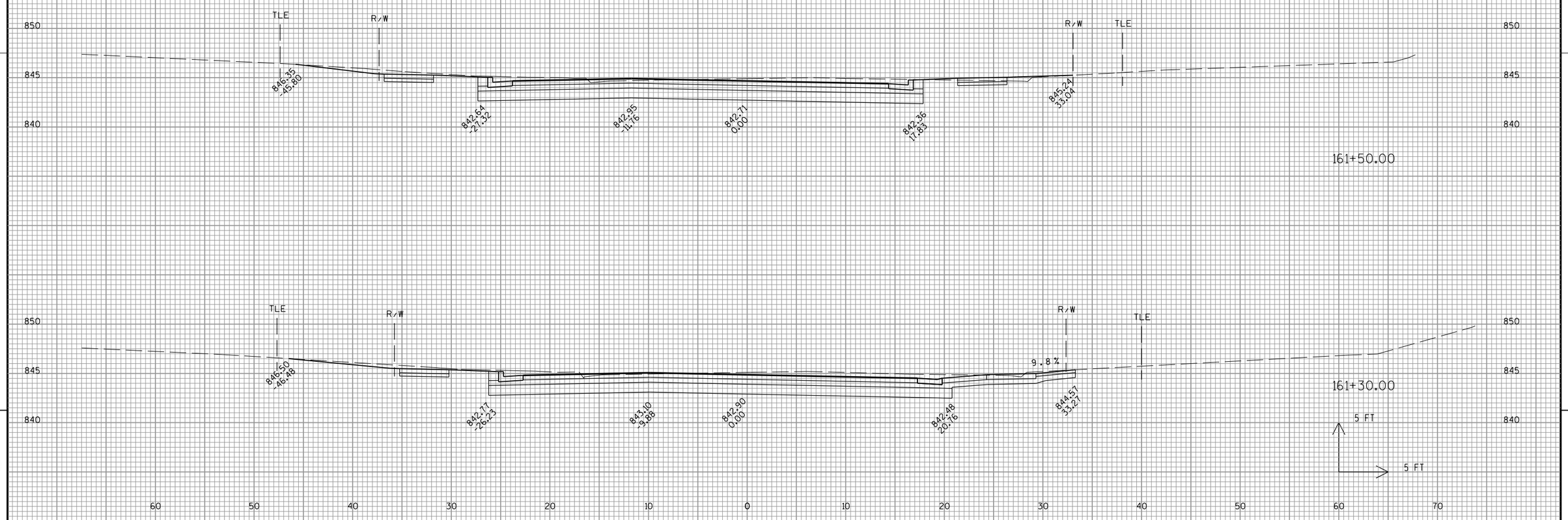
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PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 135	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\090202_xs.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21





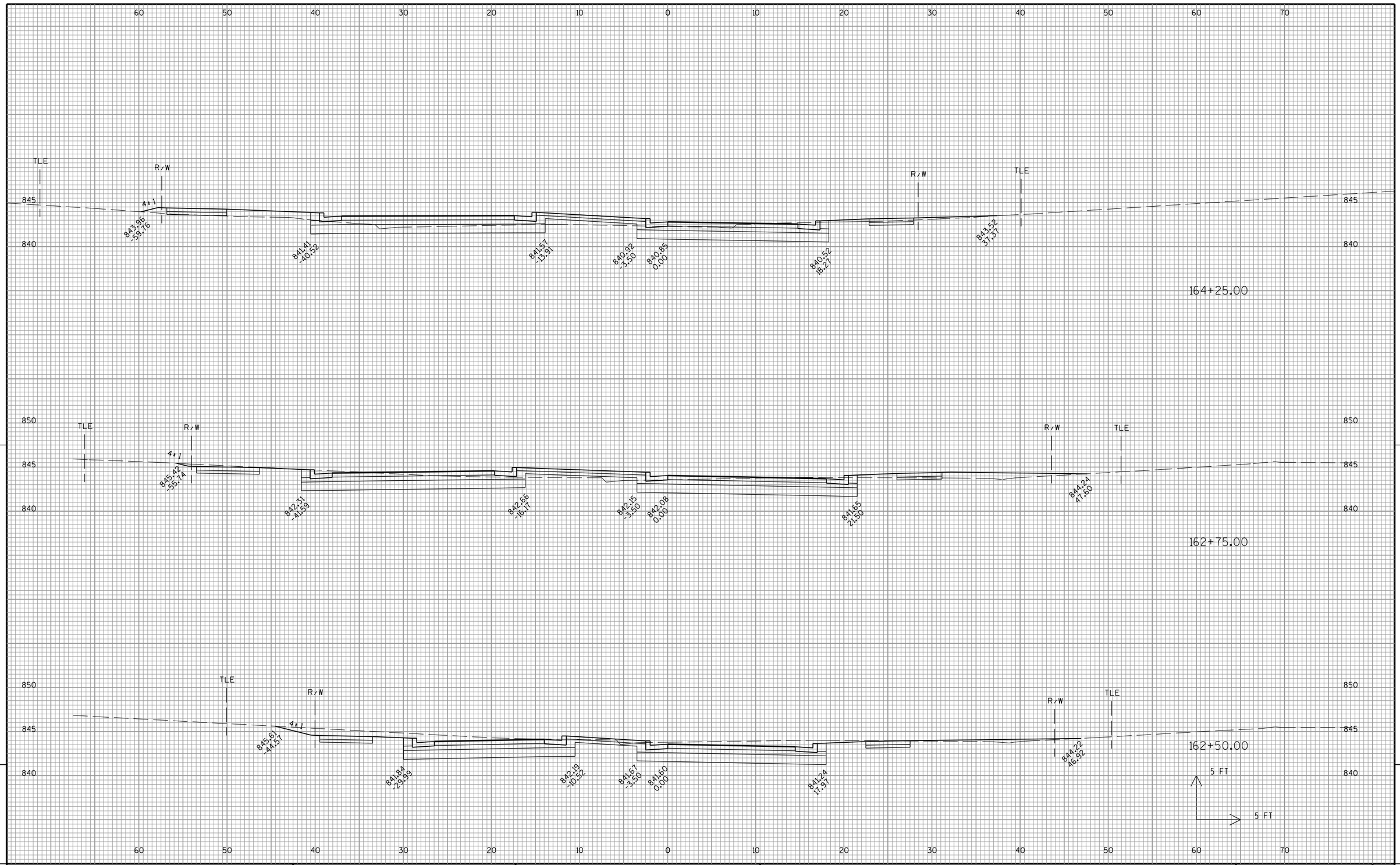
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PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 136	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\090202_xs.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

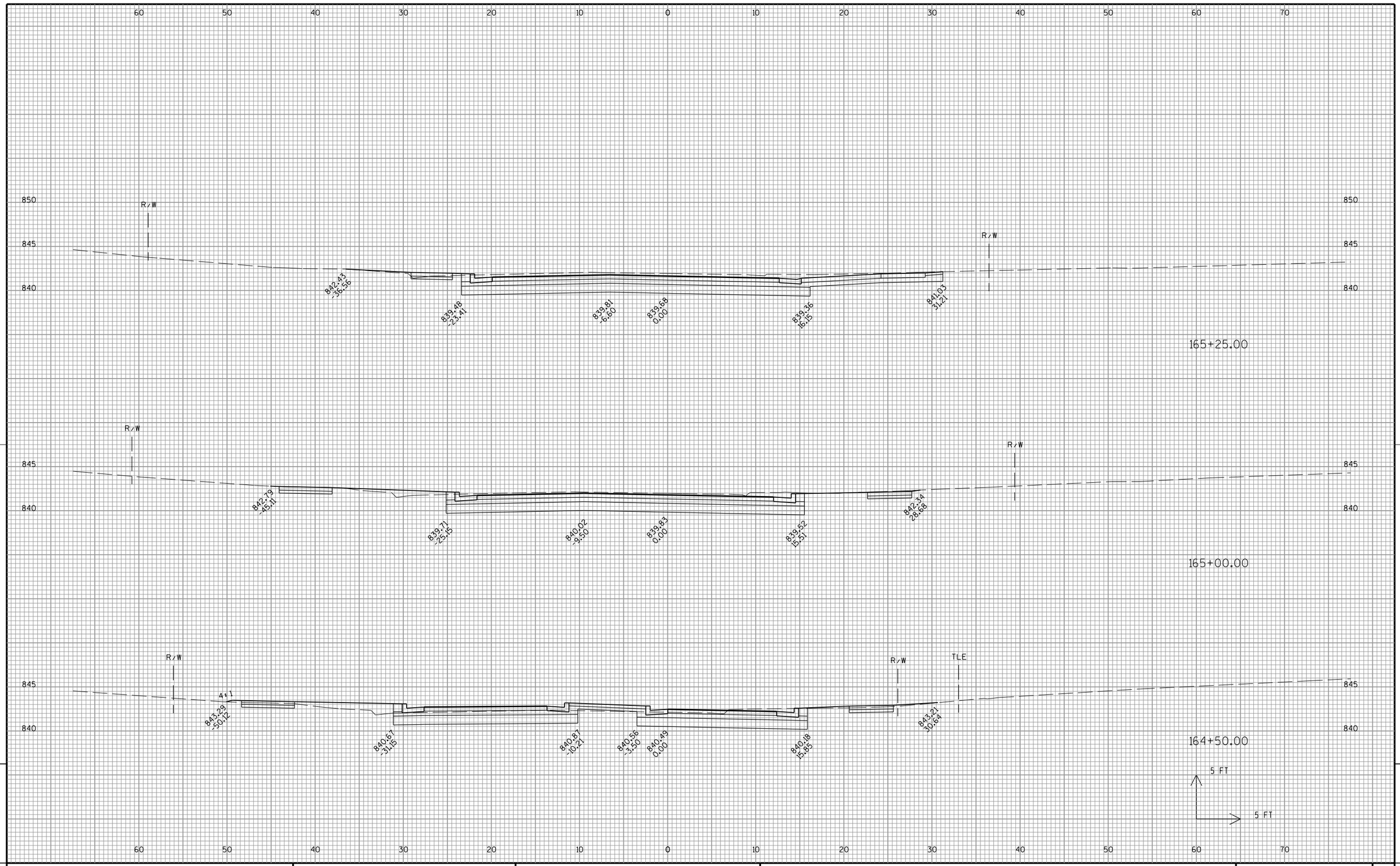
WISDOT/CADDS SHEET 21



PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 137	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\090202_xs.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21

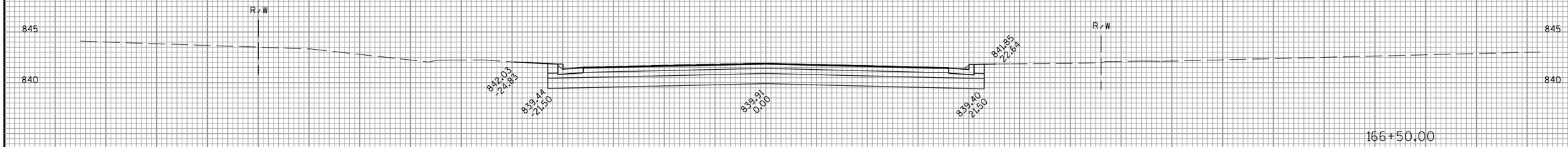


PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 138	E

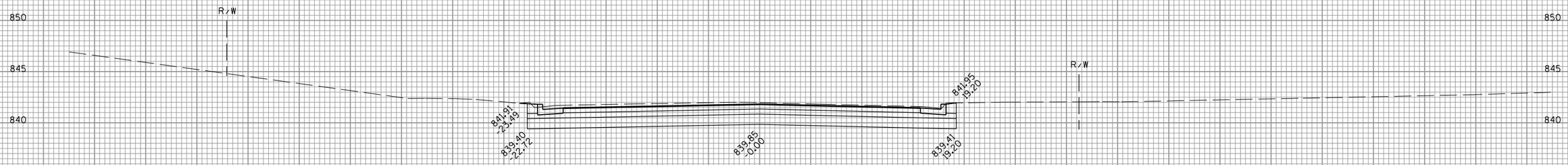
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WISDOT/CADDS SHEET 21

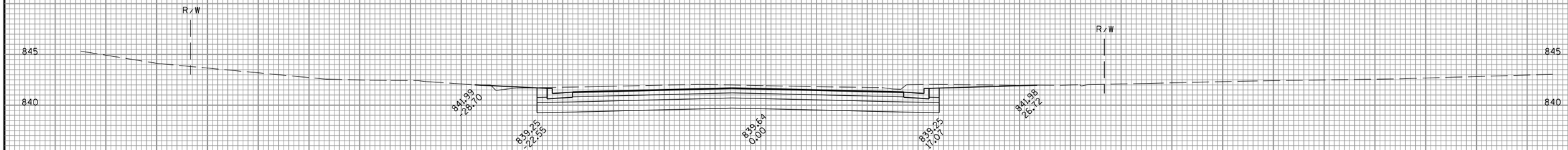
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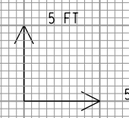
166+50.00



166+00.00



165+50.00



60 50 40 30 20 10 0 10 20 30 40 50 60 70

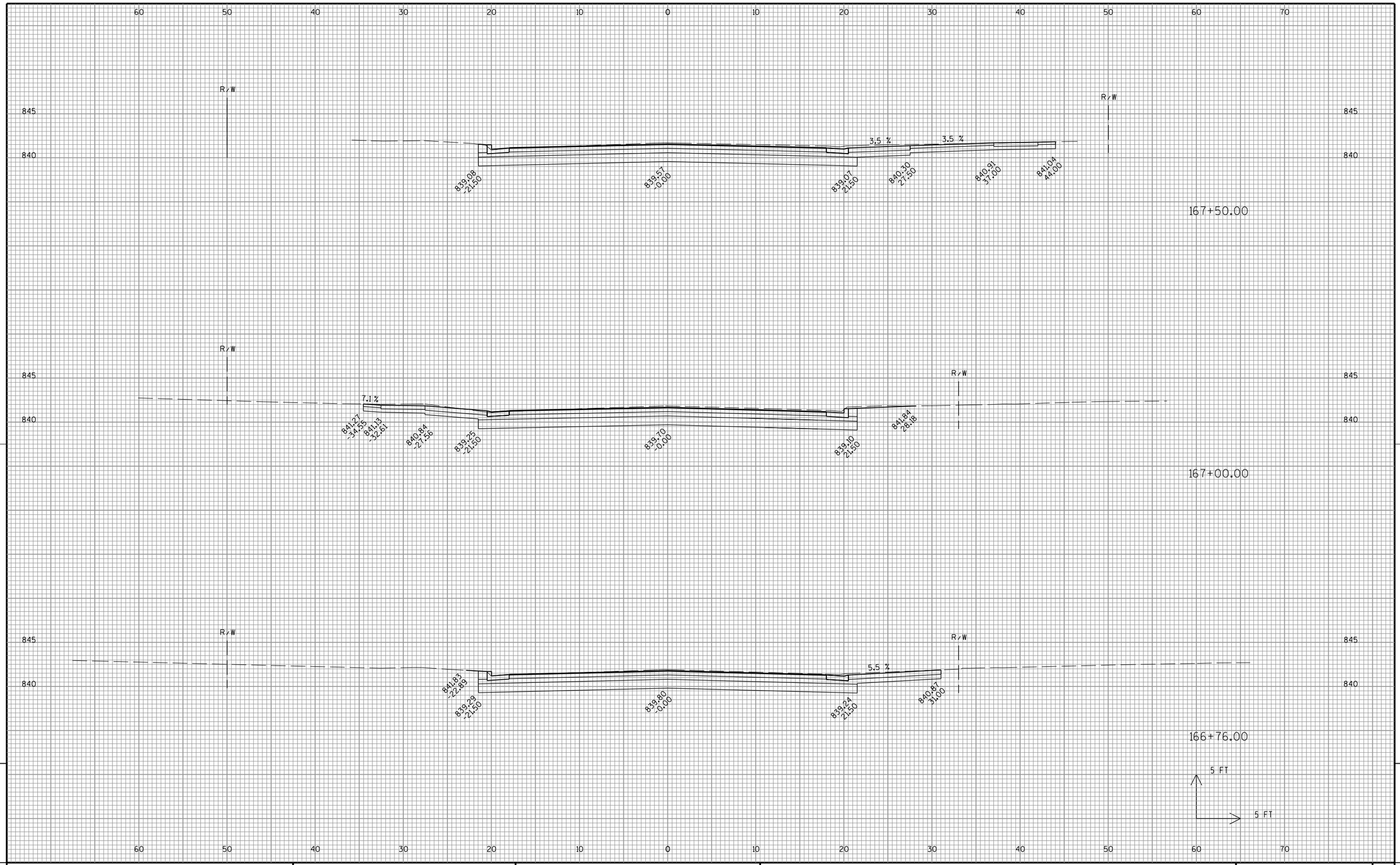
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9

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 139	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\090202b_xs.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



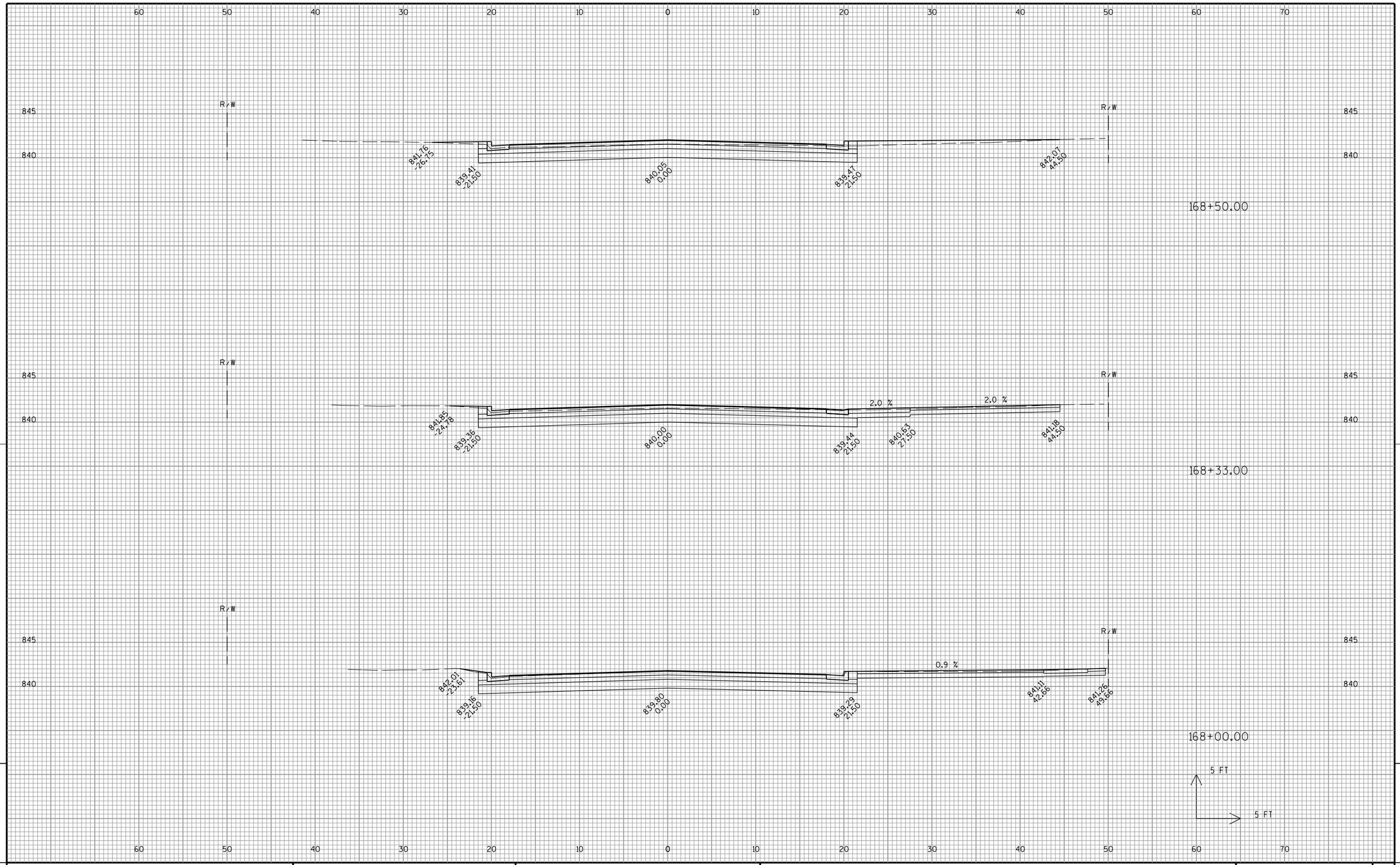
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PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 140	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\090202b_xs.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

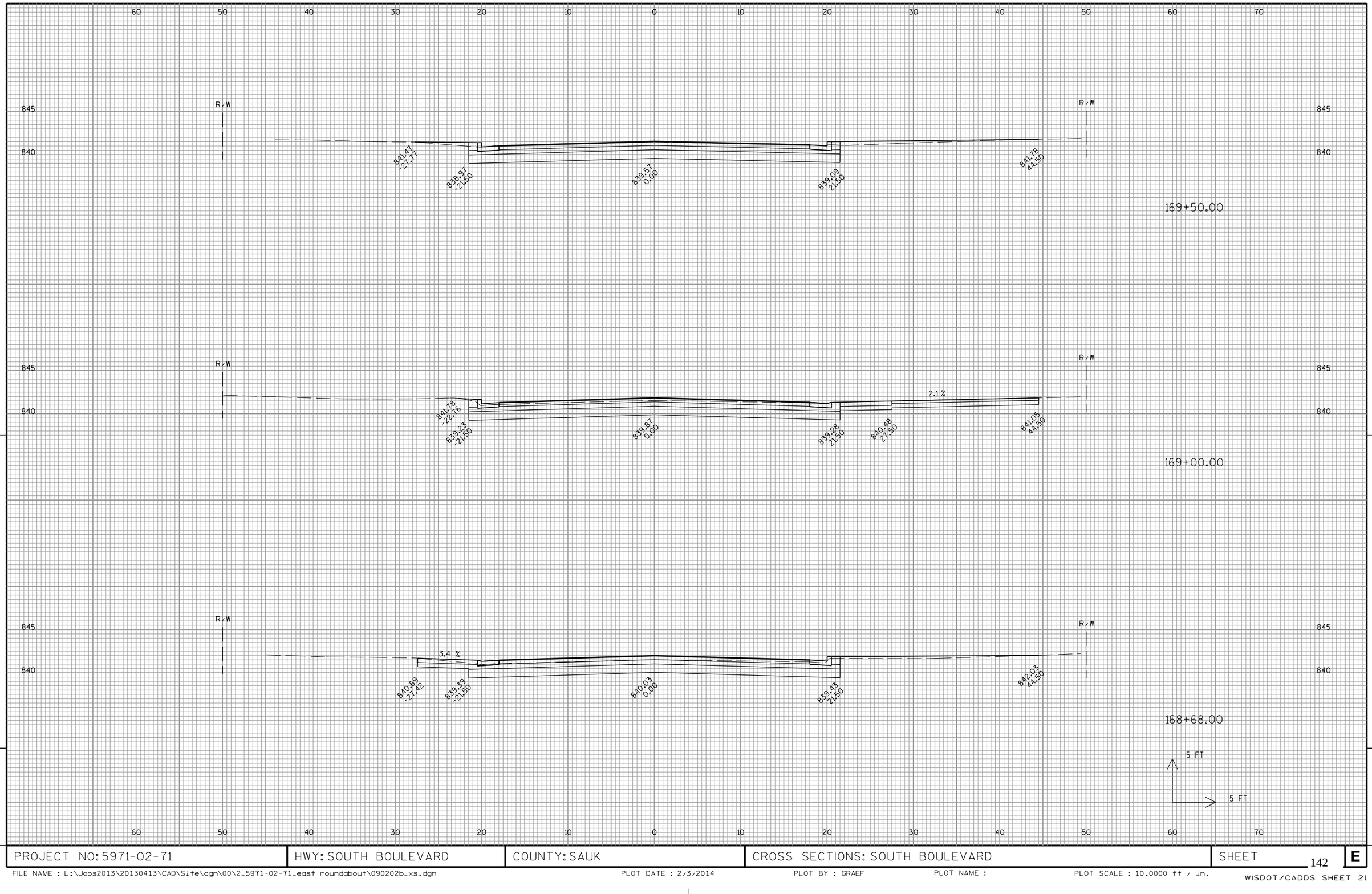
WISDOT/CADDS SHEET 21



PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 141	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\090202b_xs.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



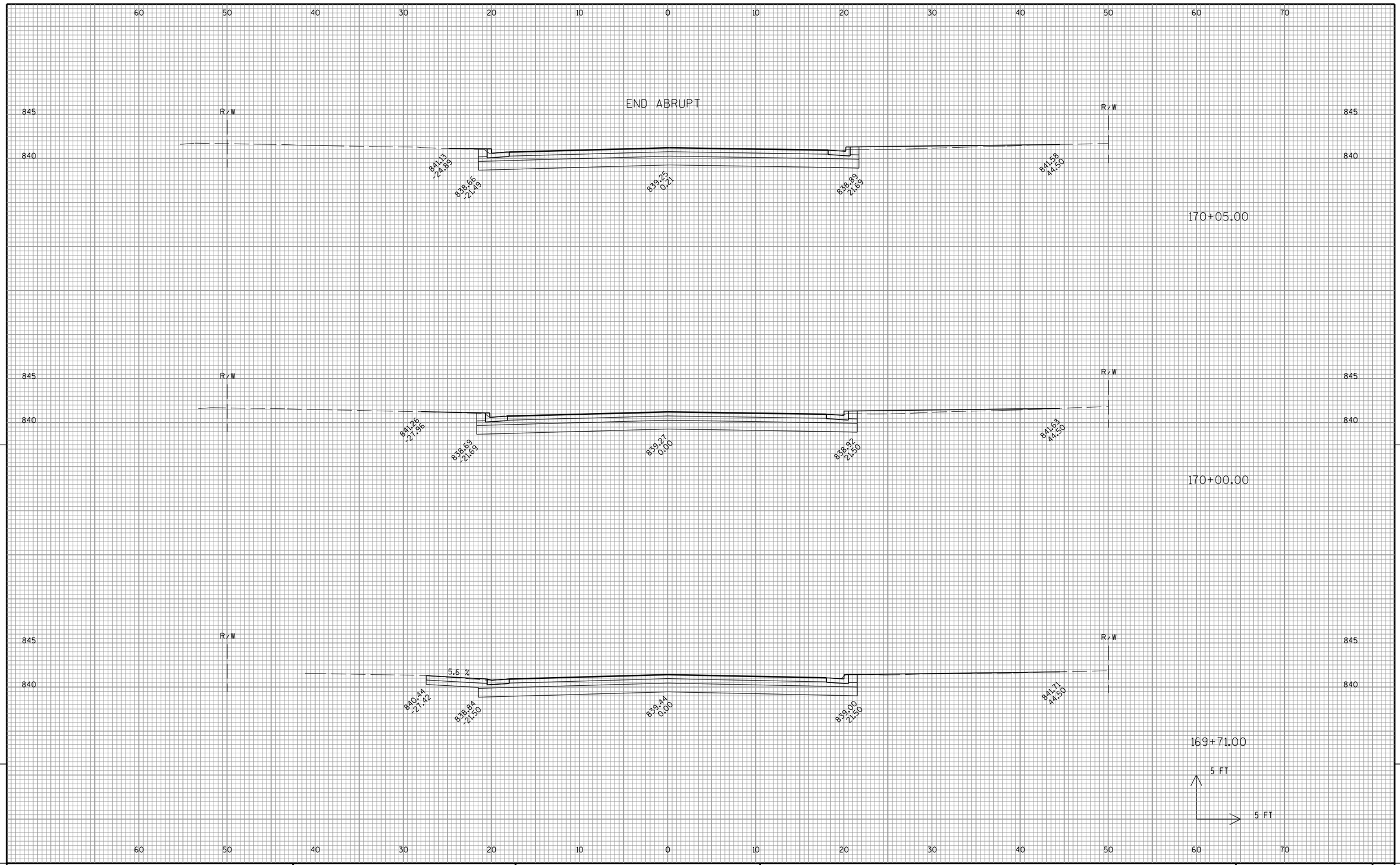
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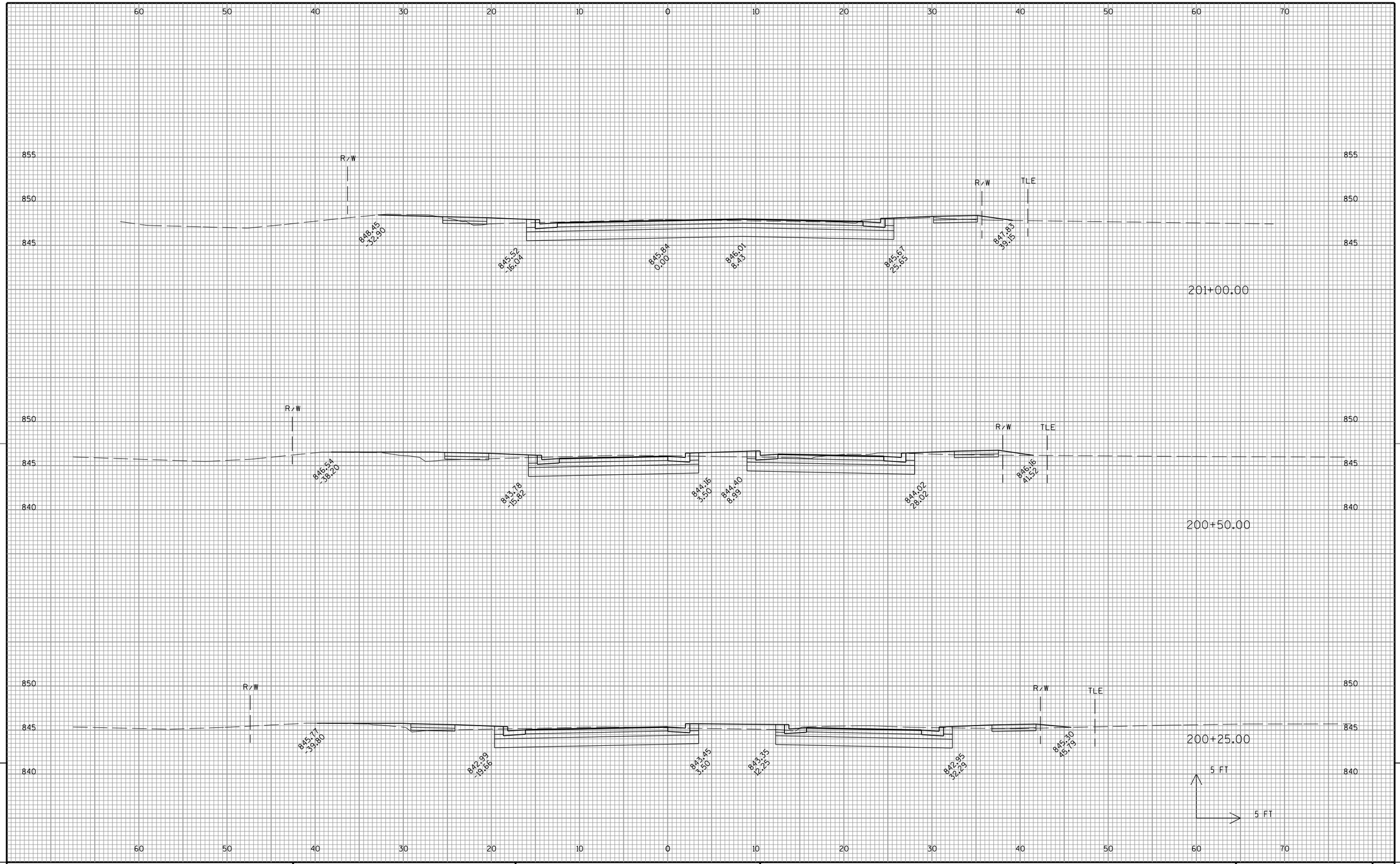
PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 142	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\090202b_xs.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 143	E



9

9

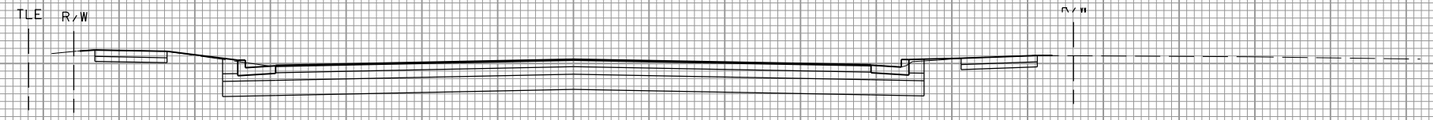
PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: PARKWAY	SHEET 144	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\090206_xs.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21

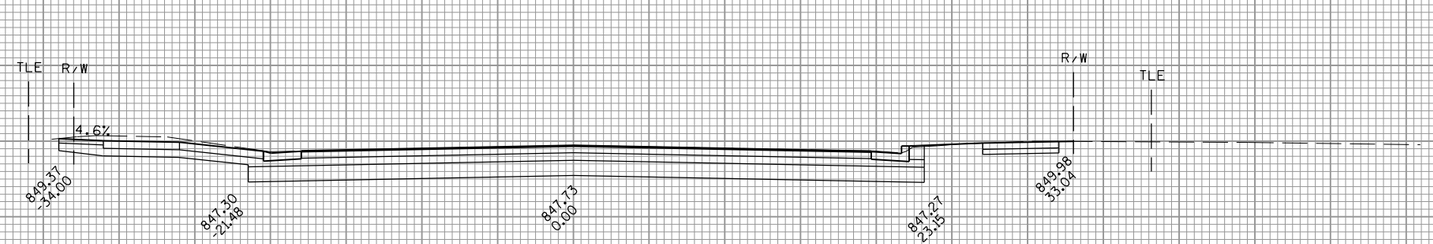
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END ABRUPT



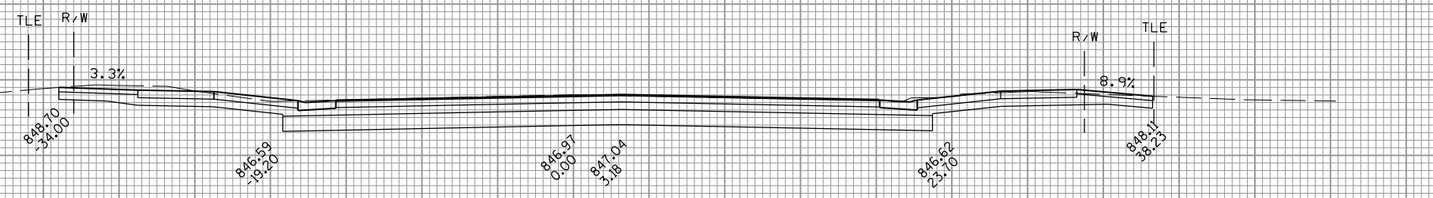
850 850

201+65.00



855 850 845 855 850 845

201+50.00



850 850 845 845

201+30.00

5 FT

5 FT

60 50 40 30 20 10 0 10 20 30 40 50 60 70

9 9

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: PARKWAY	SHEET 145	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\090206_xs.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21

200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

850
845

846.90 -39.00
842.33 -22.50
841.92 -3.00
842.25 0.00
842.49 12.00
SPLITTER ISLAND

42+40.00

846.90 -39.00
841.20 -22.50
841.25 -3.00
841.58 0.00
841.82 12.00
SPLITTER ISLAND

41+40.00

TLE R/W

845.35 -127.25
842.36 -112.00
842.68 -90.00
842.44 -78.00
842.11 -75.00
842.31 -55.50
846.90 -39.00
841.51 -22.50
841.17 -3.00
841.50 0.00
841.74 12.00
841.53 22.50
844.13 33.29
R/W TLE

41+00.00

TLE R/W

845.81 -112.50
842.97 -100.50
843.09 -90.00
842.84 -78.00
842.51 -75.00
842.83 -55.50
846.90 -39.00
842.21 -22.50
842.00 -3.00
842.33 0.00
842.57 12.00
SPLITTER ISLAND

40+65.00

TLE R/W

843.87 -124.90
842.08 -103.82
842.48 -90.00
842.22 -78.00
841.89 -75.00
842.30 -55.50
846.90 -39.00
841.88 -22.50
841.43 -3.00
841.76 0.00
842.00 12.00
841.82 27.70
845.02 41.55
R/W TLE

40+40.00

10 FT
10 FT

9 9

PROJECT NO: 5971-02-71	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD - ROUNDABOUT	SHEET 146	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\2_5971-02-71_east roundabout\090207_xs.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 ' / in.

WISDOT/CADDS SHEET 21

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

LAX MAY2014

PROJECT ID: 5988-00-70
WITH: 5971-02-71

COUNTY: SAUK

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5988-00-70	WISC 2014191	1

ORDER OF SHEETS

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

TOTAL SHEETS = 244

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

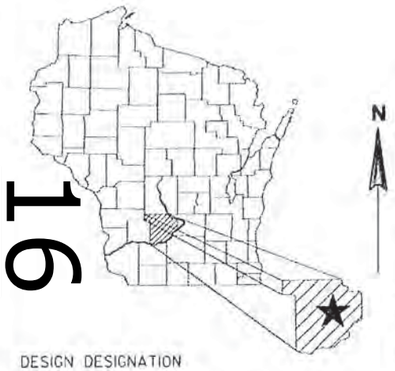
CITY OF BARABOO, SOUTH BOULEVARD

USH 12 TO STH 123

LOCAL STREET
SAUK COUNTY

STATE PROJECT NUMBER
5988-00-70

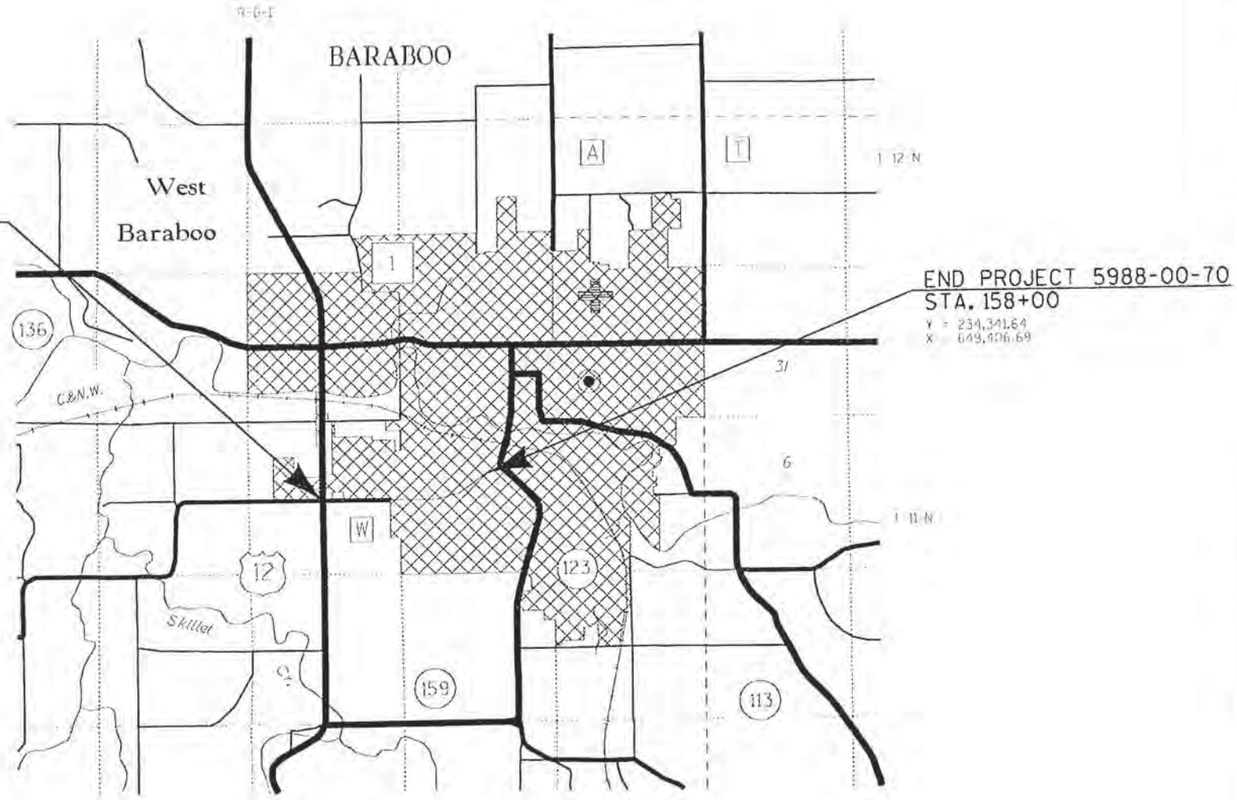
ACCEPTED FOR CITY OF BARABOO
DATE: _____ (Signature)
Mayor (Title)
DATE: _____ (Signature)
(Title)



DESIGN DESIGNATION

A.A.D.T. (2010)	=	11,500
A.A.D.T. (2030)	=	16,300
D.H.V.	=	1760
D.D.	=	58/42
T.	=	5.6%
DESIGN SPEED	=	40 MPH
ESALS	=	1,992,900

BEGIN PROJECT 5988-00-70
STA. 100+50.87
Y = 233,524.56
X = 643,882.84



END PROJECT 5988-00-70
STA. 158+00
Y = 234,341.64
X = 649,406.69

LAYOUT
SCALE 0 1/2 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.089 MI. (URBAN)

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), SAUK COUNTY.

CONVENTIONAL SYMBOLS

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

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (355.55)
- 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

ORIGINAL PLANS PREPARED BY
GRAEF



DATE: 1/13/14 Robert L. Warren (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY:

Surveyor	GRAEF
Designer	GRAEF
Project Manager	Jeremy Krachey
Regional Examiner	
Regional Supervisor	Orson Winger
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 1-14-2014 Orson L. Winger (Signature)

E

FILE NAME : L:\Jobs2013\20130413\CADS\Site\dgn\00S\5988-00-70_west USH 12\010101_11.dgn
PLOT DATE : 1/13/2014
PLOT BY : GRAEF
PLOT NAME :
PLOT SCALE : 200.0000 ft / in.
WISDOT/CADDS SHEET 10

2

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS INDICATED FOR REMOVAL BY THE ENGINEER.

THE EXACT LOCATION OF PRIVATE ENTRANCES IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM THE ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES OR FROM GRUBBING OF TREES OR STUMPS SHALL BE BACKFILLED WITH GRANULAR BACKFILL. BACKFILL GRANULAR MATERIAL IS INCIDENTAL TO THE REMOVAL ITEM.

ALL RADIUS DIMENSIONS FOR CURB & GUTTER ARE GIVEN TO THE FLANGE LINE. ALL ELEVATIONS ALONG CURB & GUTTER ARE GIVEN TO THE FLANGE LINE. OFFSETS NOTED ARE TO THE FACE OF CURB OR EDGE OF LANE IF NO CURB, UNLESS OTHERWISE NOTED.

THE LOCATION OF KNOWN EXISTING UTILITIES IN THE VICINITY OF THE PROJECT ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITIES IN THE AREA THAT ARE NOT SHOWN.

ASPHALT PAVEMENT MAY BE REMOVED OR MILLED. COST IS INCLUDED IN COMMON EXCAVATION.

EXCESS ASPHALT MILLINGS MAY BE USED FOR ACCESS PURPOSES.

SILT FENCE SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED, FERTILIZED, AND SODDED AS DIRECTED BY THE ENGINEER.

STATION AND OFFSETS TO MANHOLES ARE GIVEN TO THE CENTER OF THE STRUCTURE.

STATION AND OFFSETS TO INLETS ARE GIVEN TO THE FACE OF CURB.

INLET RIM/GRATE ELEVATIONS ARE TO THE FLANGE LINE.

DEPTH OF STRUCTURES ARE MEASURED FROM THE LOWEST INVERT OF THE STRUCTURE TO THE RIM/GRATE ELEVATION.

PIPE LENGTHS FOR STRUCTURES ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

ALL EROSION CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.

HMA PAVEMENT, TYPE E-3 WHERE INDICATED ON THE PLANS, SHALL CONSIST OF LAYERS AS FOLLOWS, UNLESS OTHERWISE NOTRED ON TEH PLANS OR DIRECTED BY THE ENGINEER.

5.5" DEPTH: 3.5" OF 19mm HMA PAVEMENT, TYPE E-3
PERFORMANCE GRADE 64-28, AS THE LOWER LAYER

2" OF 12.5 mm HMA PAVEMENT, TYPE E-3
PERFORMANCE GRADE 64-28, AS THE UPPER LAYER

ASPHALT AND CONCRETE DRIVEWAYS SHALL BE SAWCUT AT THE MATCH LINE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DRIVEWAY TYPES AND THICKNESSES (PER LOCATION PER PLAN):

ASPHALT DRIVEWAY, 3½-INCHES HMA SHALL CONSIST OF THE FOLLOWING:

6" OF BASE AGGREGATE DENSE 1¼-INCH AS THE BASE LAYER

3½" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

CONCRETE DRIVEWAY, 6-INCHES SHALL CONSIST OF THE FOLLOWING:

4" OF BASE AGGREGATE DENSE 1¼-INCH AS THE BASE LAYER

6" CONCRETE DRIVEWAY

CURB AND GUTTER AND SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT, IF THE NEAREST JOINT IS 4-FEET OR LESS. IT SHALL BE REMOVED TO THE LOCATION SHOWN ON THE PLAN (SAWCUT) IF THIS NEAREST JOINT IS GREATER THAN 4-FEET.

ALL TRAFFIC SIGNS TO BE REMOVED AND SALVAGED FOR THE CITY OF BARABOO DEPARTMENT OF PUBLIC WORKS. NOTIFY TOM PINION, DIRECTOR OF PUBLIC WORKS AT (608) 355-2730 THREE (3) DAYS PRIOR TO REMOVING THE SIGNS.

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

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

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

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

ELEVATIONS SHOWN ON PLANS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL NORTH AMERICAN DATUM 1983 (1991).

ORDER OF TYPICAL SECTION AND DETAIL SHEETS

WRITTEN MATERIAL
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLAN
INTERSECTION DETAIL
PLAN DETAILS
STORM SEWER AND EROSION CONTROL
LIGHTING PLAN
TRAFFIC SIGNAL PLAN
PAVEMENT MARKING AND SIGNING
TRAFFIC CONTROL
DETOUR ROUTE
ALIGNMENT

ABBREVIATIONS

B	BARN
B.O.C.	BACK OF CURB
BUS	BUSINESS
C.A.B.C.	CRUSHED AGGREGATE BASE COURSE
CE	COMMERCIAL ENTRANCE
CMPA	CORRUGATED METAL PIPE ARCH
CMP	CORRUGATED METAL PIPE
CTR	CENTER
G	GARAGE
H	HOUSE
HP	HIGH POINT
LHE	LIMITED HIGHWAY EASEMENT
LOC.	LOCATION
MAX.	MAXIMUM
NOR.	NORMAL
P.L.	PROPERTY LINE
P.O.C.	POINT ON CURVE
PP	POWER POLE
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
RAD.	RADIUS
RCSP	REINFORCED CONCRETE SEWER PIPE
R.O.	RUNOUT
S	SOUTH OR SHED
S.S.	STORM SEWER
SE	SUPERELEVATION NUMBER

UTILITIES

UTILITY OR MUNICIPALITY	ADDRESS	CONCTACT	UTILITY TYPE
WISCONSIN DEPARTMENT OF TRANSPORTATION	3550 MORMON COURT LACROSSE, WI 54601	JEFF VOLLMAR jeff.vollmar@dot.wi.gov 608-789-5542	SIGNALS
CITY OF BARABOO	450 ROUNDHOUSE COURT BARABOO, WI 53913	WADE PETERSON wpeterson@cityofbaraboo.com 608-355-2740	SEWER & WATER

AGENCIES

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
MS. CATHY BLESER
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
catherine.bleser@wisconsin.gov
608-275-3308

CITY OF BARABOO
MR. TOM PINION
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
135 4TH STREET
BARABOO, WI 53913
tpinion@cityofbaraboo.com
608-355-2730

GRAEF
MR. BOB WARREN
125 S. 84TH STREET STE. 401
MILWAUKEE, WI 53214
robert.warren@graef-usa.com
414-266-9032

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

2

VICTORIA CIRCLE

COURT

LYNN

CASE STREET

SYCAMORE ST.

PINE STREET

THOMAS ST.

ANDRO ST.

AVENUE

LYNN

AVENUE

STREET

STREET

STREET

RUSSELL ST.

DRIVE

BADGER

STREET

END PROJECT 5988-00-70
STA. 158+00.00

PRAIRIE AVENUE

BADGER

ROAD

DRIVE

BOULEVARD

170+00

165+00

STH 123

QUARRY

SAUK

AVENUE

MOORE STREET

SAUK AVENUE

CASE

RACHAEL

RUSSELL

STREET

RUSSELL

STREET

160+00

PARKWAY

STH 123

USH 12

LANGE

COURT

INDUSTRIAL

HITCHCOCK

SOUTH

155+00

STREET

DRIVE

STREET

150+00

HIGHLAND

AVENUE

145+00

100+00

105+00

SOUTH

110+00

115+00

120+00

BOULEVARD

125+00

130+00

135+00

140+00

QUARRY

CTH W

CTH W
(TO MOORE STREET)

STREET

PATE STREET

STREET

CANEPA ST.

BEGIN PROJECT 5988-00-70
STA. 100+50.87

USH 12

MOORE

WALDO

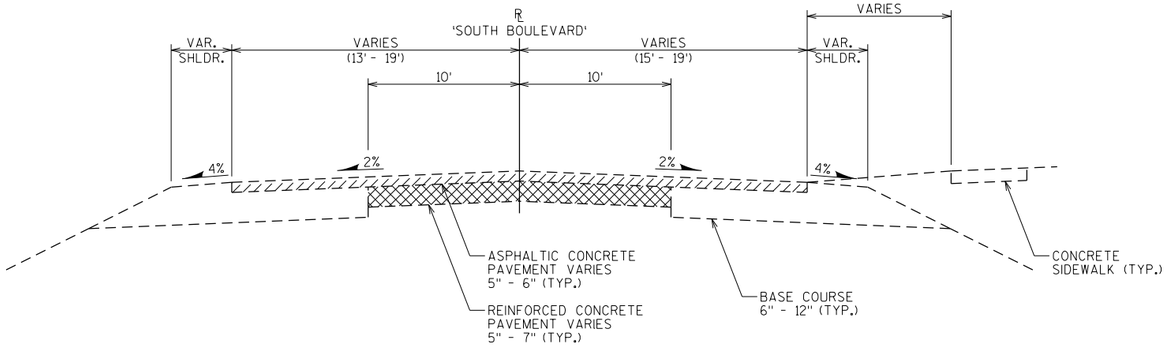
ELLIS

PARKSIDE

AVE.

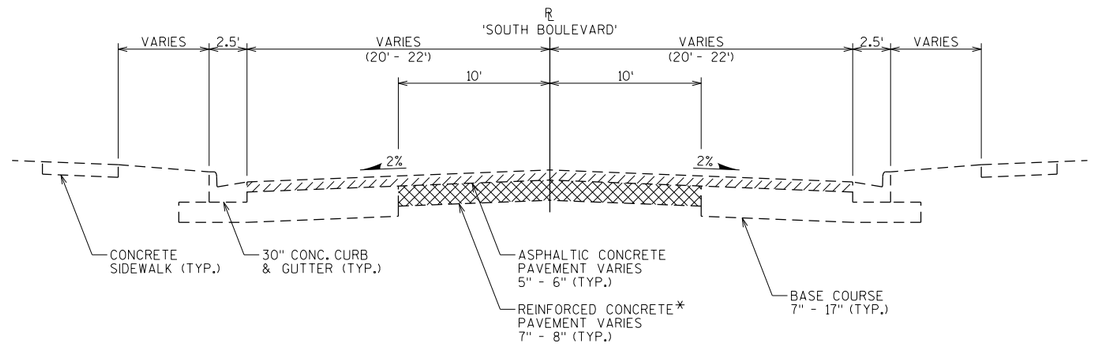
PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\020201_po.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 450.0000 ft / in.



TYPICAL RURAL EXISTING SECTION - SOUTH BOULEVARD

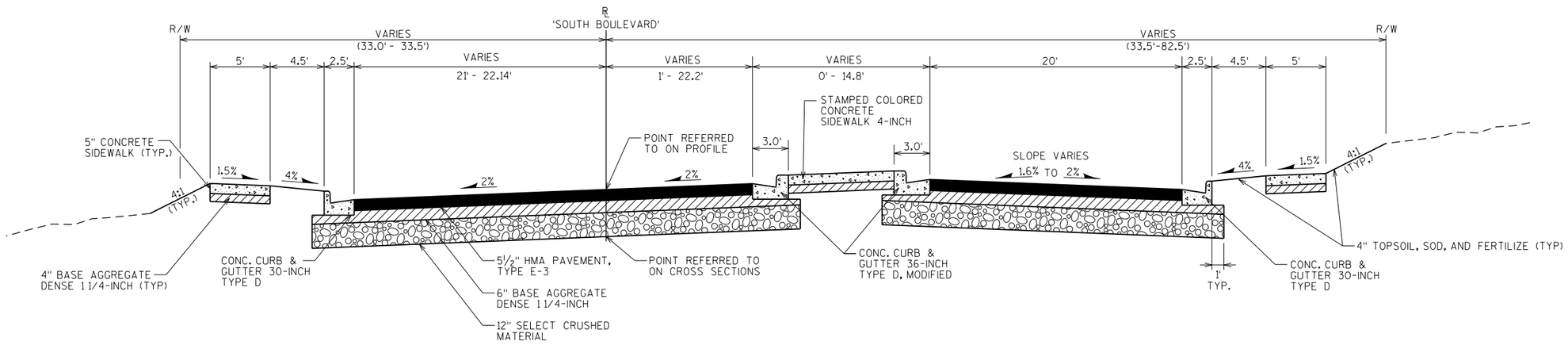
STA. 101+22.98 TO STA. 131+89
(STA. 126+60.5 - 131+89 W/ SIDEWALK, RT)



TYPICAL URBAN EXISTING SECTION - SOUTH BOULEVARD

STA. 131+89 TO STA. 158+00

* NO CONCRETE STA. 145+60 - 164+20, RECONSTRUCTED WITH 6-INCH BASE AGGREGATE ON 9-INCH BREAKER RUN

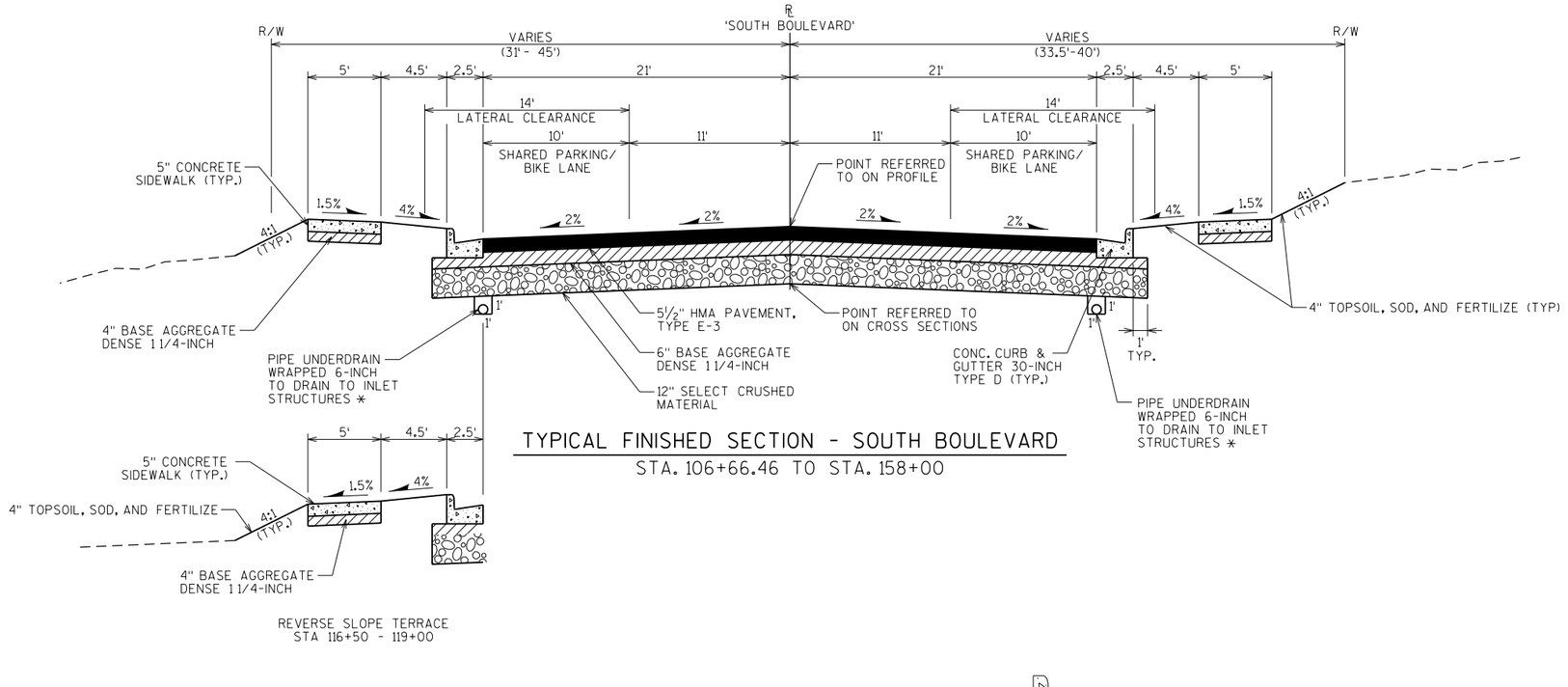


TYPICAL FINISHED SECTION - SOUTH BOULEVARD

STA. 101+22.98 TO STA. 106+66.46

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	TYPICAL SECTIONS	SHEET 4	E

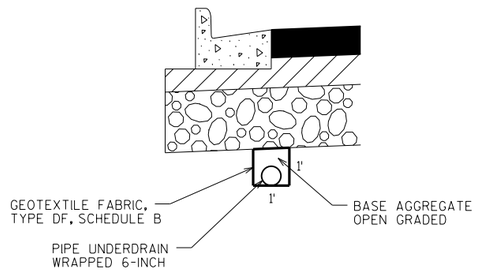
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TYPICAL FINISHED SECTION - SOUTH BOULEVARD

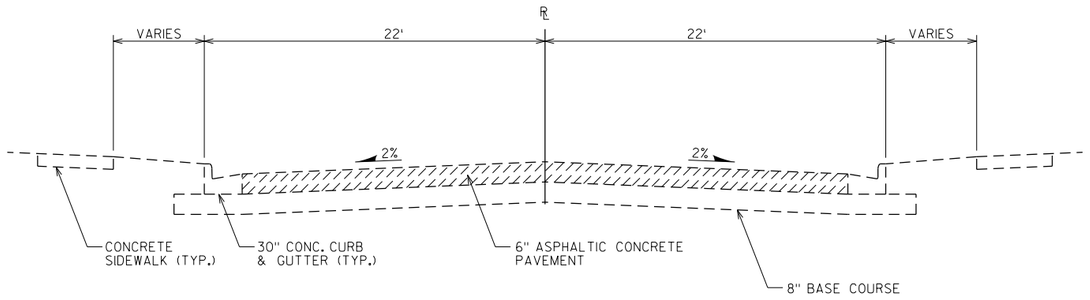
STA. 106+66.46 TO STA. 158+00

REVERSE SLOPE TERRACE
STA 116+50 - 119+00



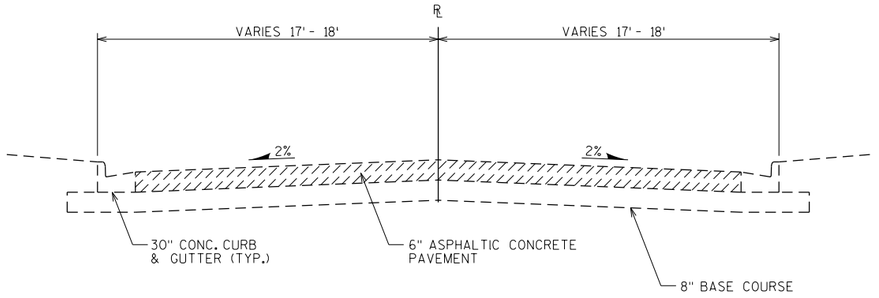
* UNDERDRAIN LOCATIONS
STA 118+55 - 122+50 LT
STA 118+55 - 122+50 RT
STA 132+12 - 135+40 LT
STA 132+12 - 135+40 RT

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	TYPICAL SECTIONS	SHEET 5	E



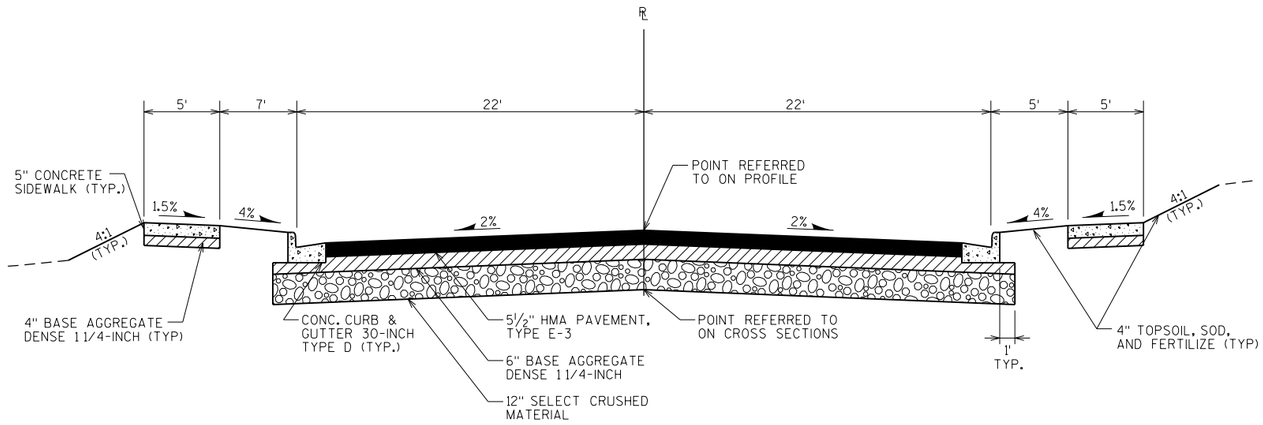
TYPICAL EXISTING SECTION - SIDE ROADS

INDUSTRIAL STREET



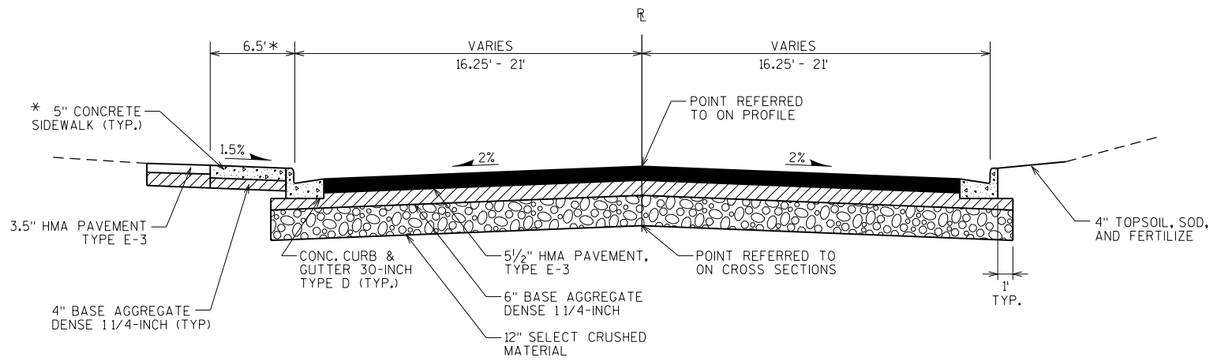
TYPICAL EXISTING SECTION - SIDE ROADS

HITCHCOCK STREET AND WALDO STREET



TYPICAL FINISHED SECTION - SIDE ROADS

INDUSTRIAL STREET

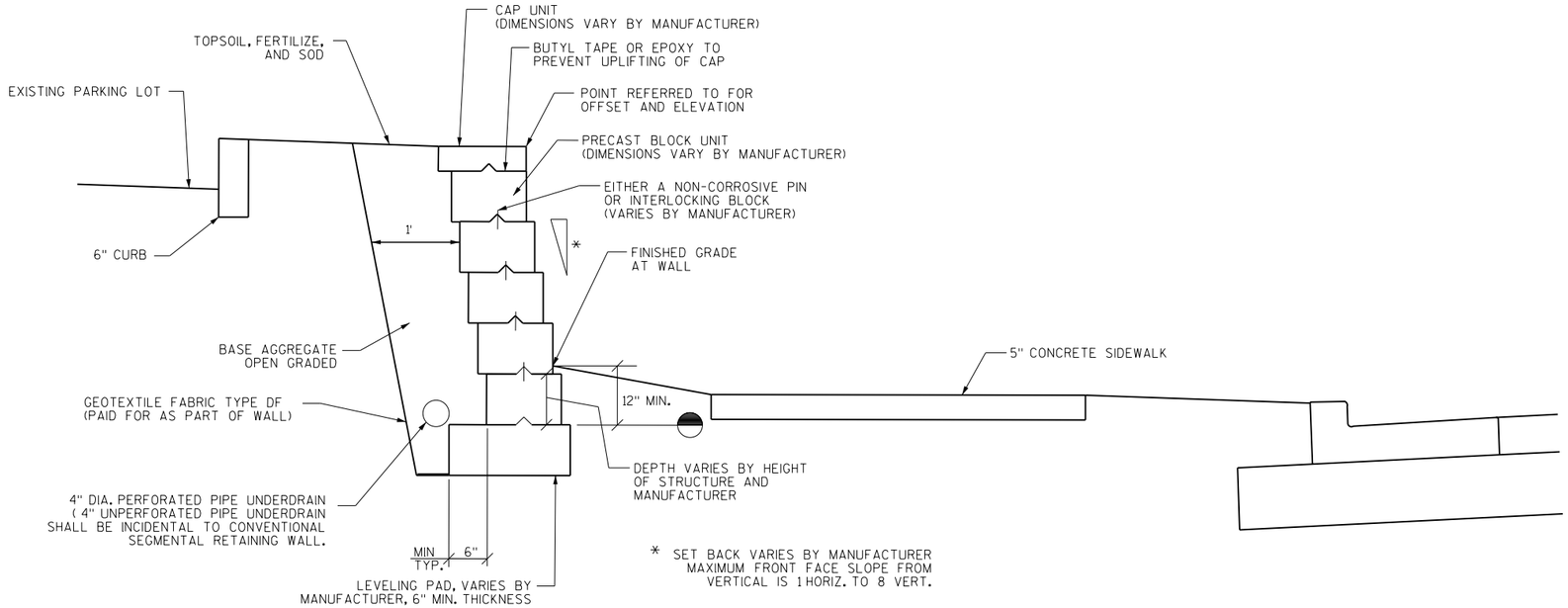


TYPICAL FINISHED SECTION - SIDE ROADS

MOORE STREET, PATE STREET, HITCHCOCK STREET, WALDO STREET AND HIGHLAND DRIVE

*SIDEWALK ON WALDO STREET ONLY

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	TYPICAL SECTIONS	SHEET 6	E



TYP. CROSS SECTION AT CONVENTIONAL SEGMENTAL RETAINING WALL

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE GRAVITY WALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE GRAVITY WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK GRAVITY."

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO ANY WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

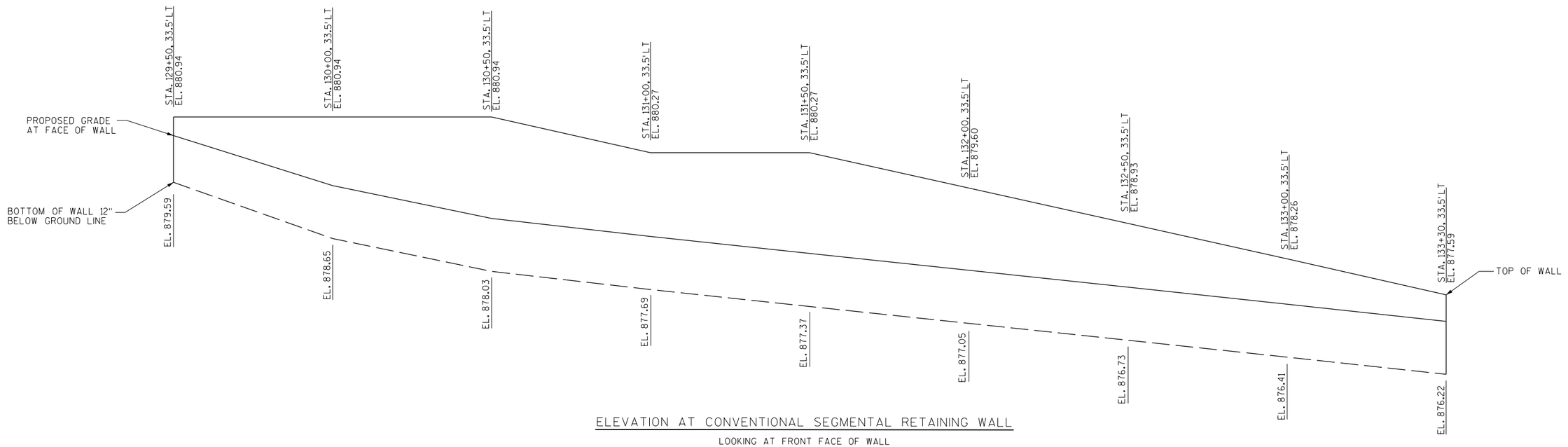
OFFSETS GIVEN ARE TO EXPOSED FACE OF WALL AT FINISHED GRADE.

THE MODULAR BLOCK GRAVITY WALL IS TO BE DESIGNED USING THE DETAILS GIVEN ON THIS SHEET.

LINE REPRESENTS MINIMUM BOTTOM OF WALL (TOP OF LEVELING PAD) EMBEDMENT. ACTUAL LEVELING PAD TO BE LEVEL AT OR BELOW THIS LINE.

MODULAR BLOCK GRAVITY WALL SHALL BE MEASURED BY THE SQUARE FOOT OF FACE ON A VERTICAL PLANE BETWEEN THE TOP OF THE LEVELING PAD AND THE TOP OF WALL INCLUDING WALL CAP.

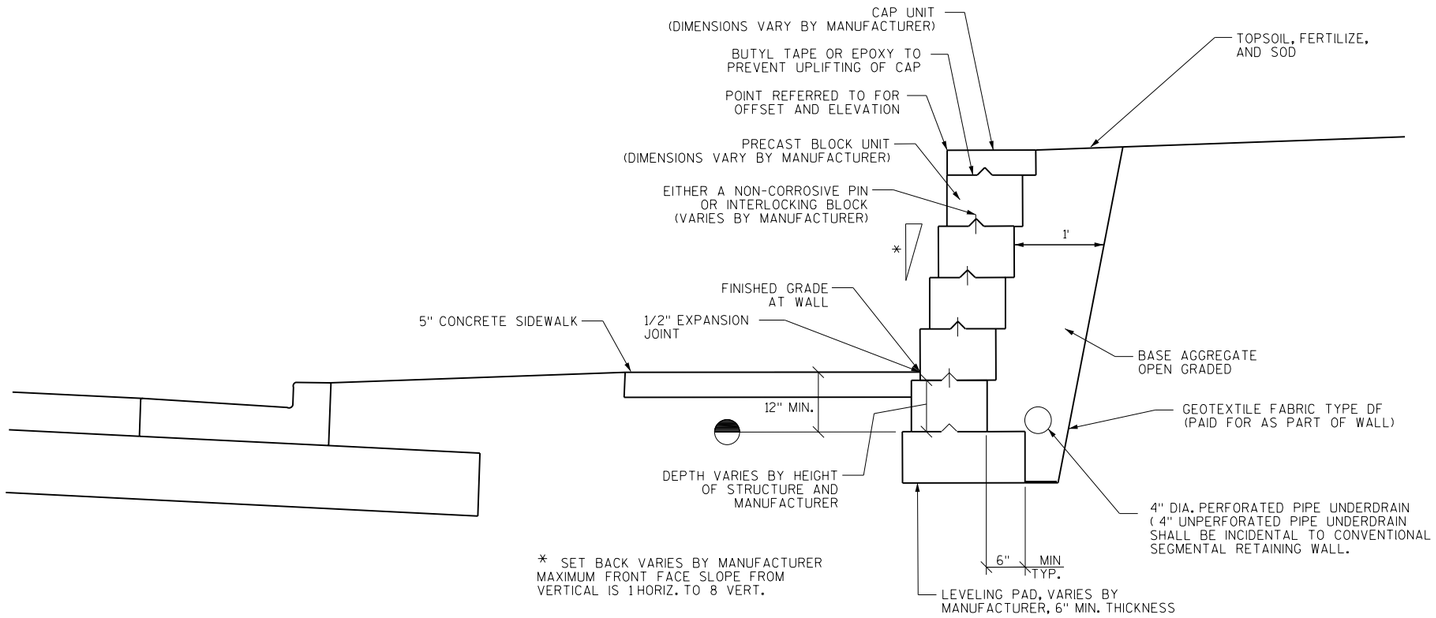
CONTRACTOR SHALL COORDINATE WITH THE CITY OF BARABOO ON DESIRED COLOR, TEXTURE OR PATTERNS REQUIRED FOR THE FACE OF THE WALLS. THE CITY'S STANDARD MODULAR BLOCK RETAINING WALL IS THE ROCKWOOD CLASSIC 6" BEVELED SPLITFACE BLOCK - SANDSTONE COLOR.



ELEVATION AT CONVENTIONAL SEGMENTAL RETAINING WALL

LOOKING AT FRONT FACE OF WALL

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CONSTRUCTION DETAILS	SHEET 7	E



TYP. CROSS SECTION AT CONVENTIONAL SEGMENTAL RETAINING WALL

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE GRAVITY WALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE GRAVITY WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK GRAVITY."

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO ANY WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

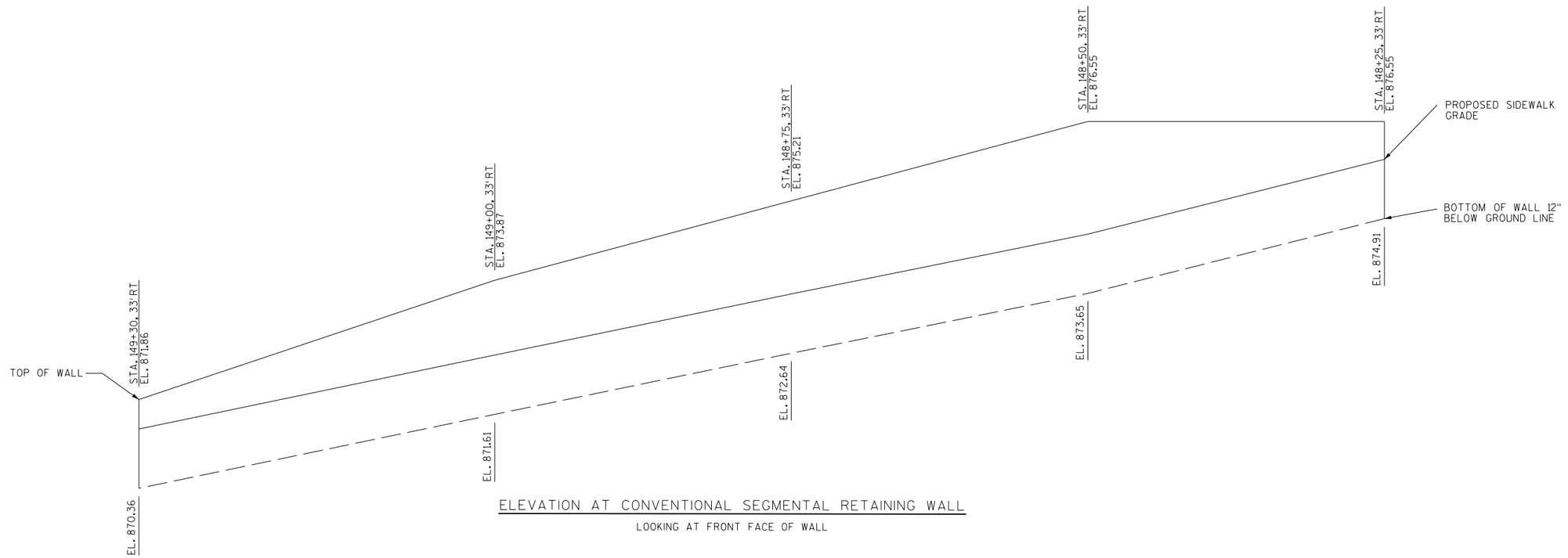
OFFSETS GIVEN ARE TO EXPOSED FACE OF WALL AT FINISHED GRADE.

THE MODULAR BLOCK GRAVITY WALL IS TO BE DESIGNED USING THE DETAILS GIVEN ON THIS SHEET.

LINE REPRESENTS MINIMUM BOTTOM OF WALL (TOP OF LEVELING PAD) EMBEDMENT. ACTUAL LEVELING PAD TO BE LEVEL AT OR BELOW THIS LINE.

MODULAR BLOCK GRAVITY WALL SHALL BE MEASURED BY THE SQUARE FOOT OF FACE ON A VERTICAL PLANE BETWEEN THE TOP OF THE LEVELING PAD AND THE TOP OF WALL INCLUDING WALL CAP.

CONTRACTOR SHALL COORDINATE WITH THE CITY OF BARABOO ON DESIRED COLOR, TEXTURE OR PATTERNS REQUIRED FOR THE FACE OF THE WALLS. THE CITY'S STANDARD MODULAR BLOCK RETAINING WALL IS THE ROCKWOOD CLASSIC 6" BEVELED SPLITFACE BLOCK - SANDSTONE COLOR.

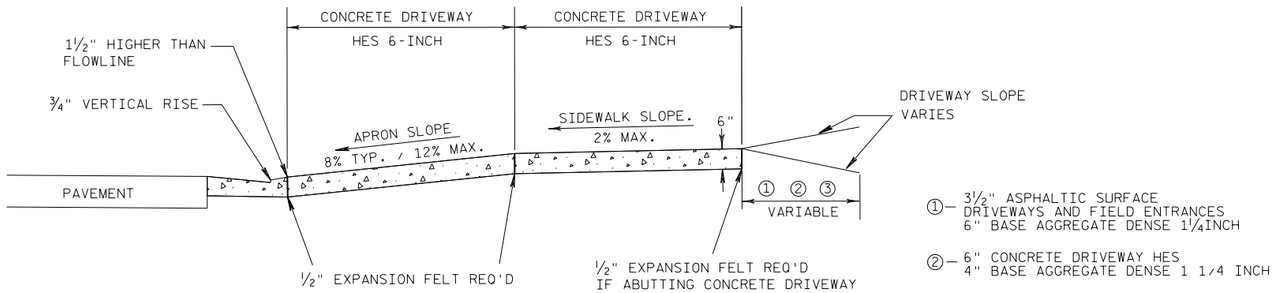


ELEVATION AT CONVENTIONAL SEGMENTAL RETAINING WALL

LOOKING AT FRONT FACE OF WALL

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CONSTRUCTION DETAILS	SHEET 8	E

2

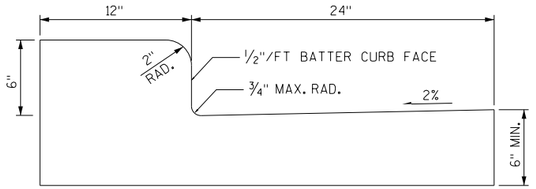


① — 3½" ASPHALTIC SURFACE
DRIVEWAYS AND FIELD ENTRANCES
6" BASE AGGREGATE DENSE 1¼INCH

② — 6" CONCRETE DRIVEWAY HES
4" BASE AGGREGATE DENSE 1 1/4 INCH

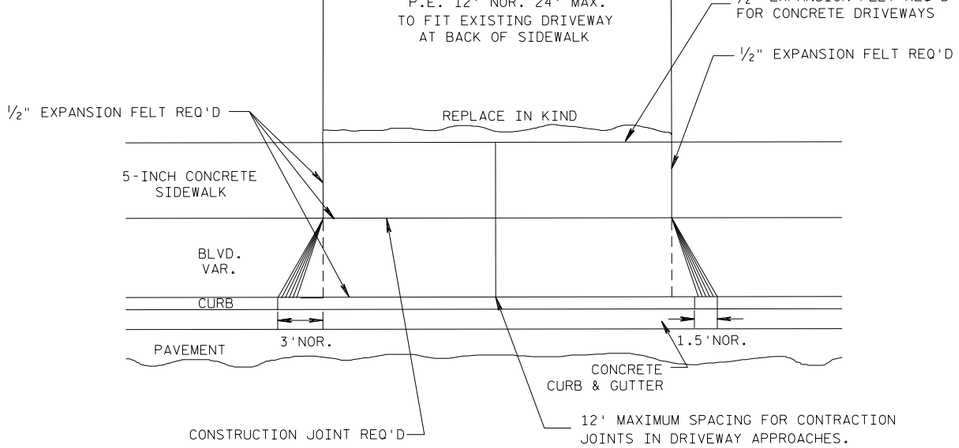
③ — 6" BASE AGGREGATE DENSE 3/4 INCH

TYPICAL DRIVEWAY SECTION



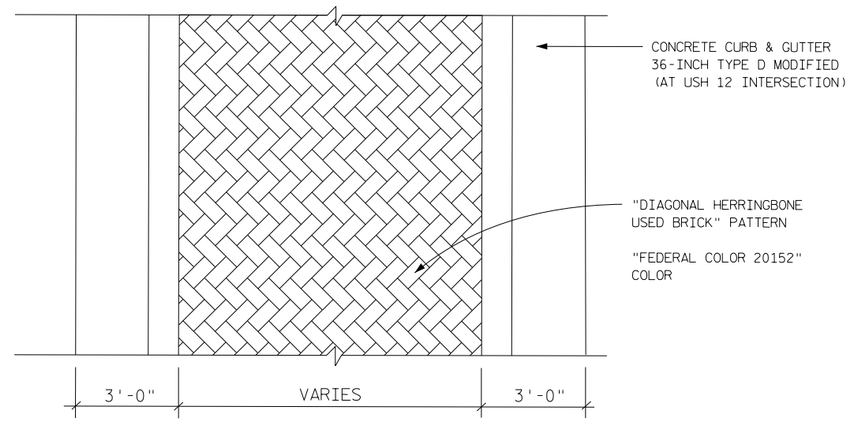
CONCRETE CURB & GUTTER, 36 INCH, TYPE D, MODIFIED

ALL DETAILS NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE STANDARD DETAIL DRAWING "CONCRETE CURB, CONCRETE CURB AND GUTTER AND PAVEMENT TIES."



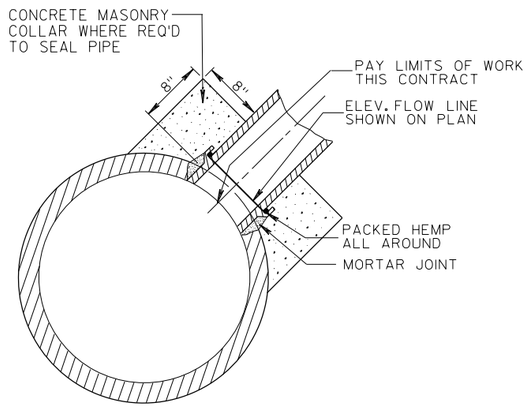
PLAN VIEW

DRIVEWAY ENTRANCE DETAIL WITH SIDEWALK, CURB & GUTTER

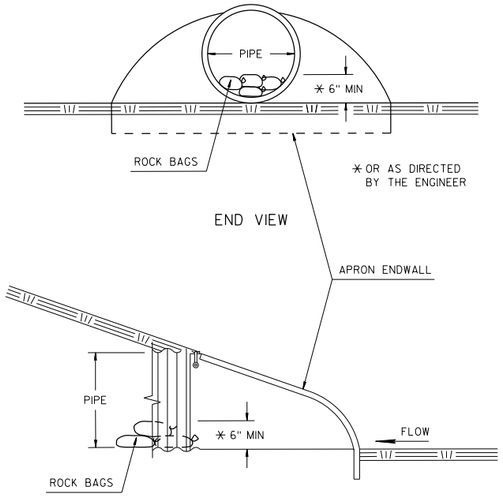


NOTE:
PROVIDE EXPANSION JOINTS
@ MIN. 25' O.C. (TYP)

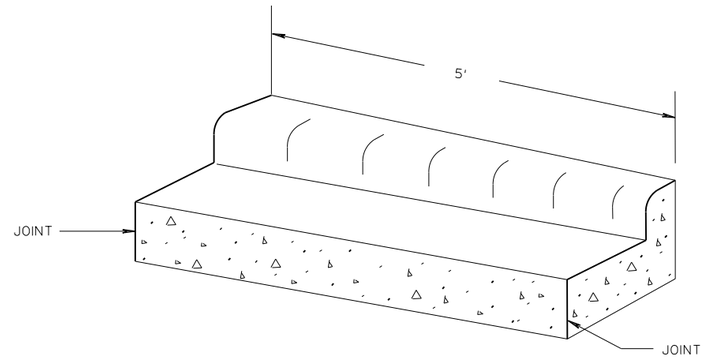
STAMPED COLORED CONCRETE SIDEWALK 4-INCH



DETAIL OF CONNECTION TO STORM SEWER



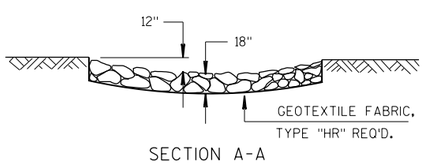
CULVERT PIPE CHECKS



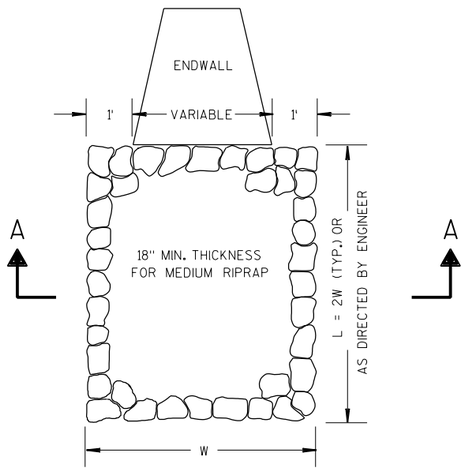
TRANSITION DETAIL

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

STA 100+76 - 100+81 RT
STA 101+25 - 101+30 LT



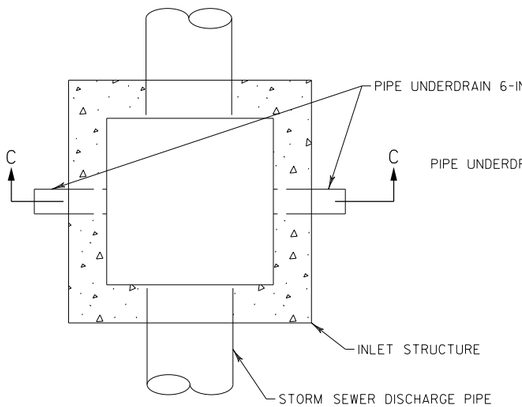
SECTION A-A



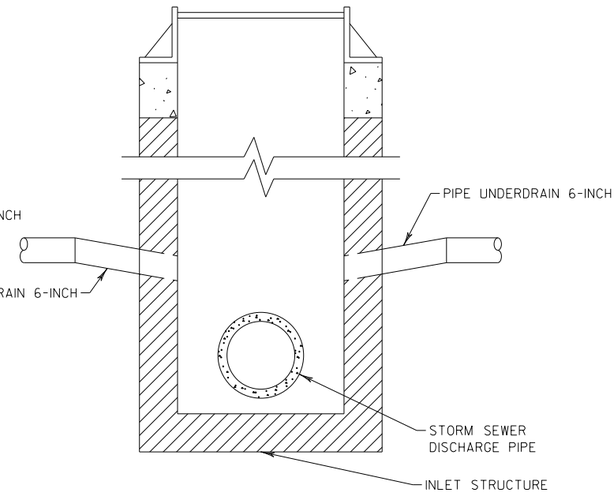
MEDIUM RIPRAP TREATMENT AT CULVERTS

NOTES

1. PROVIDE 6" DIA. OPENINGS FOR UNDERDRAIN PIPE AS NECESSARY.
2. SEE TYPICAL SECTIONS AND MISCELLANEOUS QUANTITIES FOR PIPE UNDERDRAIN LOCATIONS.



PLAN VIEW



SECTION C-C

UNDERDRAIN OUTFALL AT INLET

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CONSTRUCTION DETAILS	SHEET 10	E

2

N

USH 12

SOUTH BOULEVARD

100+00 +50 101+00 +50 102+00 +50 103+00 +50 104+00 +50 105+00

MATCH LINE STA. 105+00

REMOVE PULL BOX

REMOVE INLET

ABANDONED STORM SEWER

R BAR

REMOVE SMALL PIPE CULVERT

BEGIN PROJECT 5988-00-70
STA. 100+50.87
Y = 233,524.56
X = 643,882.84

LEGEND

- TREE TO BE REMOVED
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- (R) RECONSTRUCTING SANITARY MANHOLES
- (1) ADJUSTING SANITARY MANHOLES
- (2) ADJUSTING WATER VALVES
- (3) ADJUSTING HYDRANTS

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	REMOVAL PLAN	SHEET 11	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\021005_cd.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.

2

N

SOUTH BOULEVARD

MATCH LINE STA. 105+00

106+00 +50 107+00 +50 108+00 +50 109+00 +50 110+00 +50 111+00

MATCH LINE STA. 111+00

S 89° 55' 31" E

R BAR

R BAR

GUY

GUY

FLAG

VENT

REMOVING OLD STRUCTURE
(1' x 3' BOX CULVERT)

REMOVE TREES

LEGEND

- TREE TO BE REMOVED
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- (R) RECONSTRUCTING SANITARY MANHOLES
- (1) ADJUSTING SANITARY MANHOLES
- (2) ADJUSTING WATER VALVES
- (3) ADJUSTING HYDRANTS

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	REMOVAL PLAN	SHEET 12	E

2

2

N

REMOVE SMALL PIPE CULVERT

REMOVE OLD STRUCTURE (1' x 3' BOX CULVERT)

REMOVE FENCE

SOUTH BOULEVARD

INDUSTRIAL CT.

MATCH LINE STA. 111+00

MATCH LINE STA. 117+00

111+00 +50 112+00 +50 113+00 +50 114+00 +50 115+00 +50 116+00 +50 117+00

10+00 +50 11+00 +50 12

R BAR

BAR

GUY

SAN

MH

W

WV

G

OH

HO

SS

FO

LEGEND

- TREE TO BE REMOVED
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- (R) RECONSTRUCTING SANITARY MANHOLES
- (1) ADJUSTING SANITARY MANHOLES
- (2) ADJUSTING WATER VALVES
- (3) ADJUSTING HYDRANTS

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	REMOVAL PLAN	SHEET 13	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\021007_cd.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.

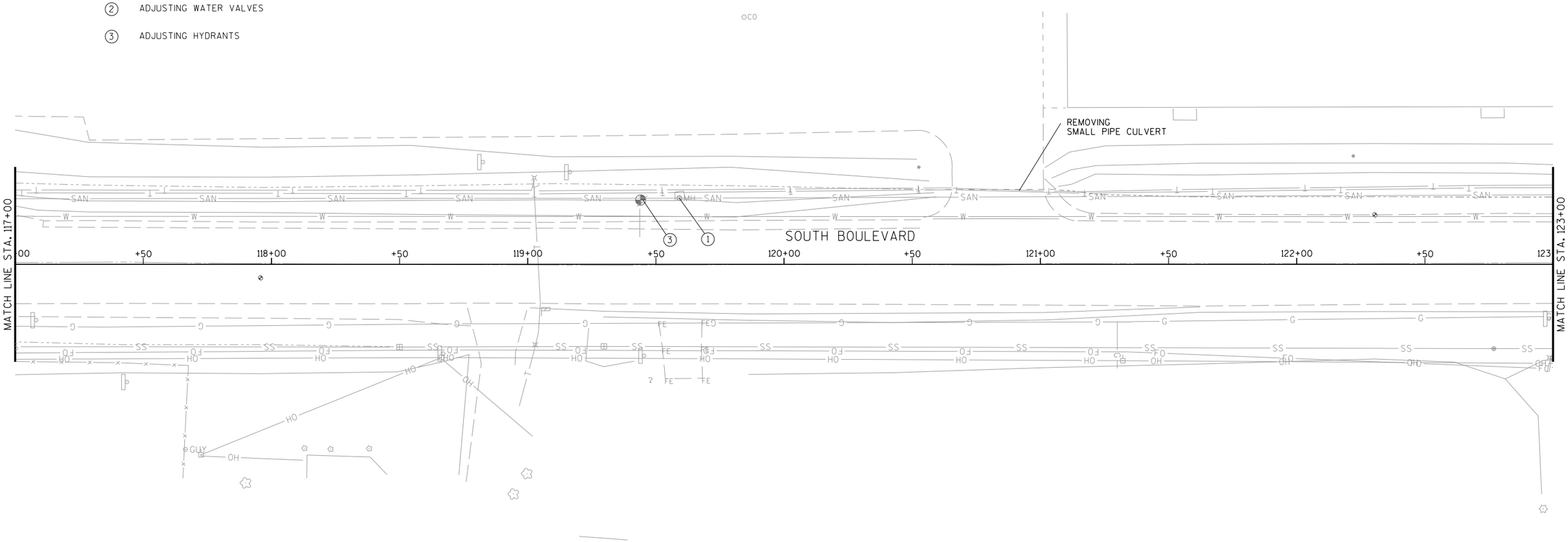
WISDOT/CADDS SHEET 42

2

LEGEND

- TREE TO BE REMOVED
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- (R) RECONSTRUCTING SANITARY MANHOLES
- (1) ADJUSTING SANITARY MANHOLES
- (2) ADJUSTING WATER VALVES
- (3) ADJUSTING HYDRANTS

N



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	REMOVAL PLAN	SHEET 14	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\021008_cd.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.

WISDOT/CADDS SHEET 42

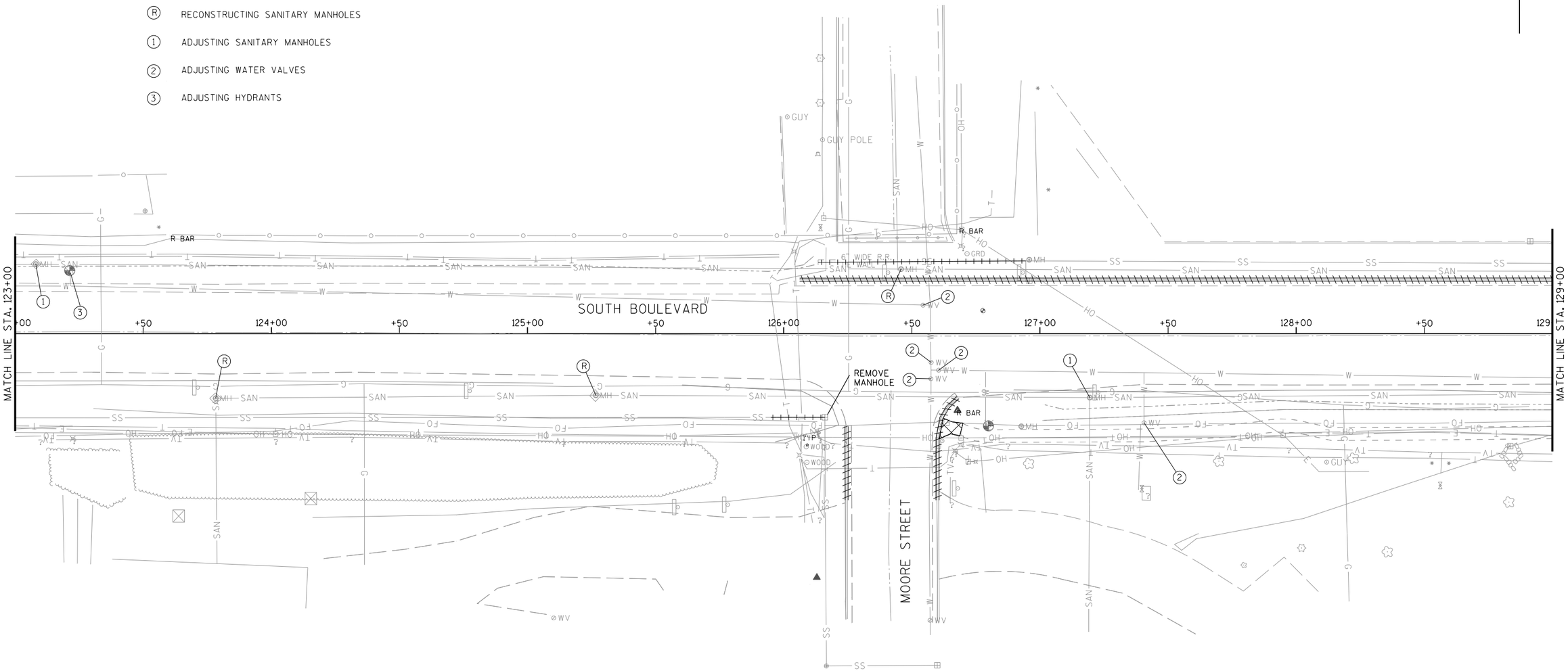
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2

LEGEND

- TREE TO BE REMOVED
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- (R) RECONSTRUCTING SANITARY MANHOLES
- (1) ADJUSTING SANITARY MANHOLES
- (2) ADJUSTING WATER VALVES
- (3) ADJUSTING HYDRANTS

N



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	REMOVAL PLAN	SHEET 15	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\021009_cd.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.

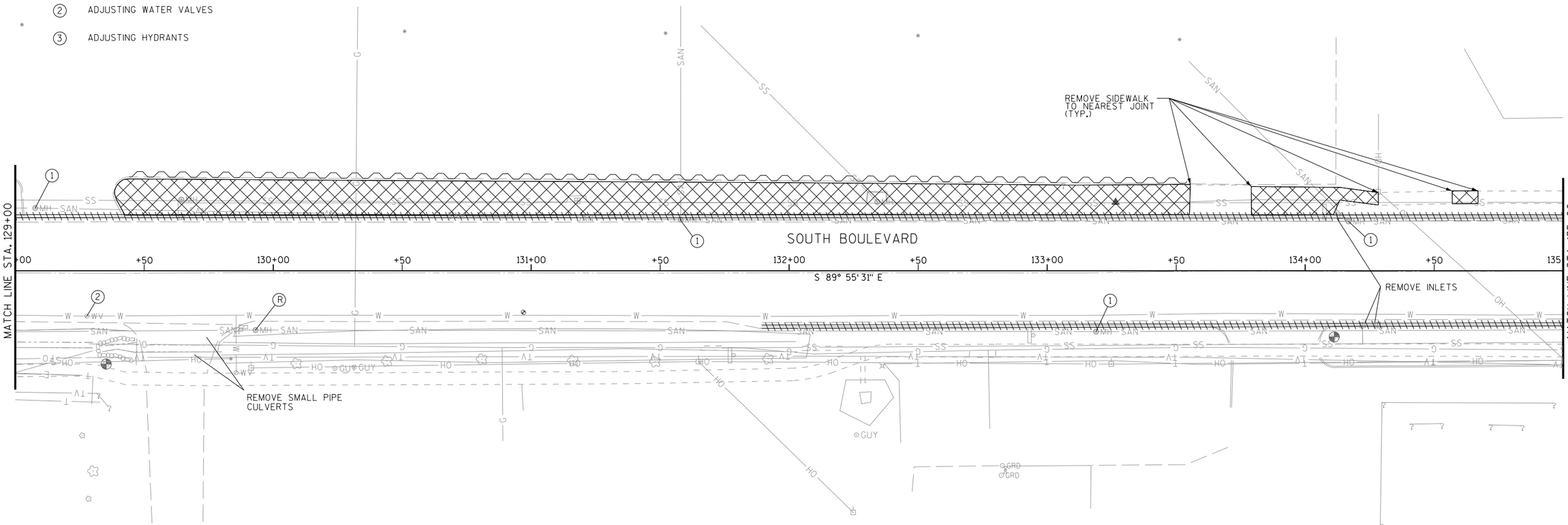
WISDOT/CADDS SHEET 42

2

LEGEND

- TREE TO BE REMOVED
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- (R) RECONSTRUCTING SANITARY MANHOLES
- (1) ADJUSTING SANITARY MANHOLES
- (2) ADJUSTING WATER VALVES
- (3) ADJUSTING HYDRANTS

N



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	REMOVAL PLAN	SHEET 16	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\021010_cd.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.

WISDOT/CADDS SHEET 42

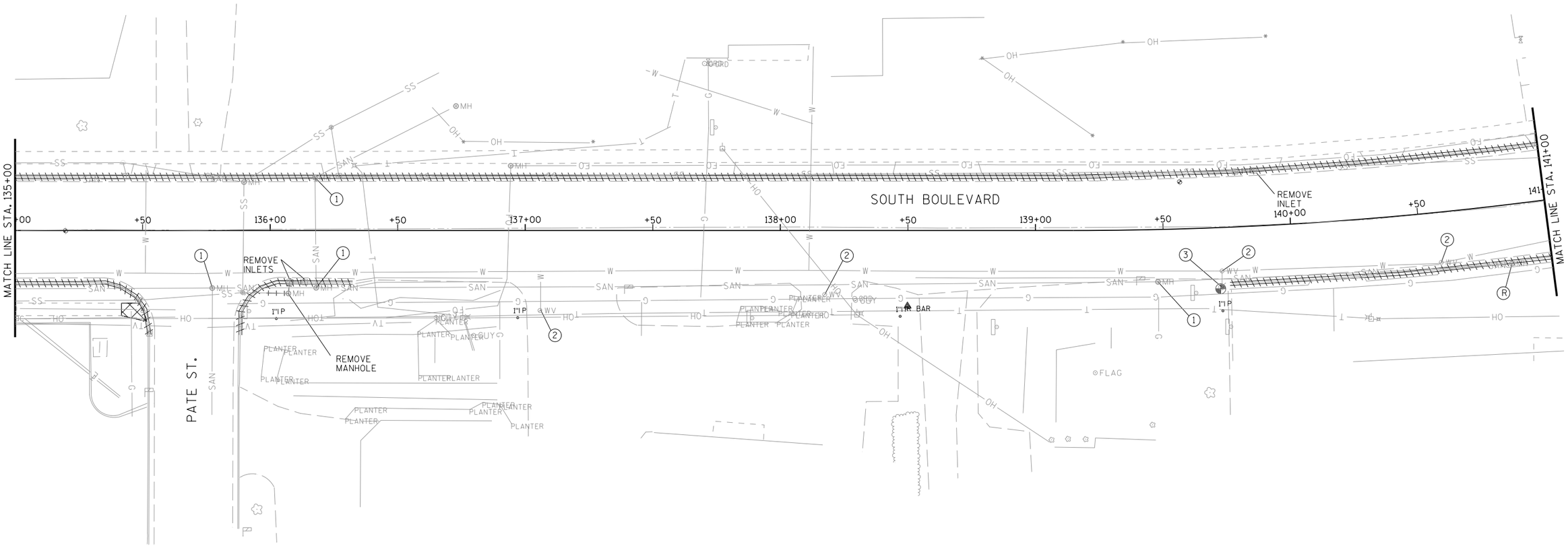
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2

LEGEND

- TREE TO BE REMOVED
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- (R) RECONSTRUCTING SANITARY MANHOLES
- (1) ADJUSTING SANITARY MANHOLES
- (2) ADJUSTING WATER VALVES
- (3) ADJUSTING HYDRANTS

N



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	REMOVAL PLAN	SHEET 17	E

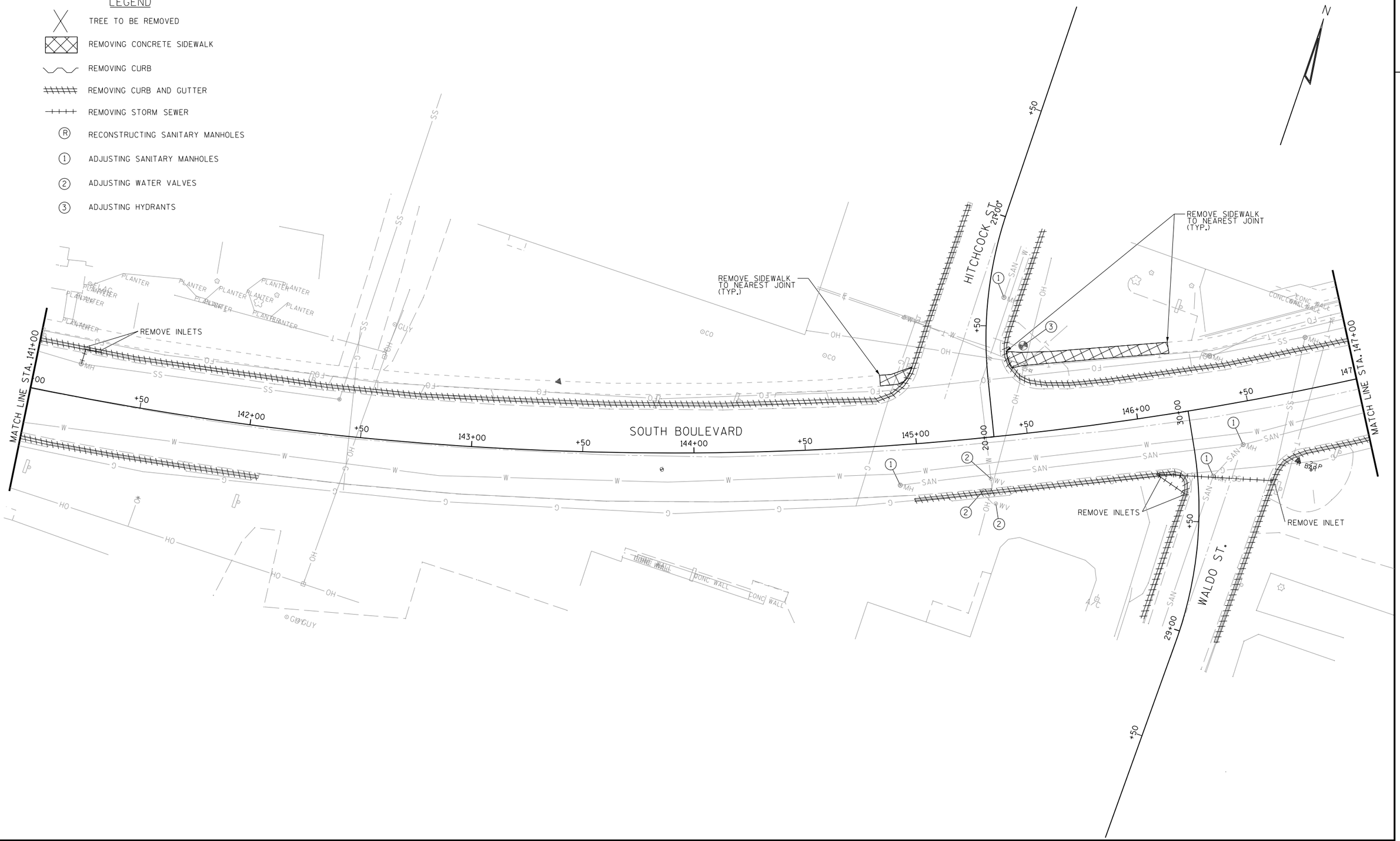
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WISDOT/CADDS SHEET 42

2

LEGEND

- TREE TO BE REMOVED
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- (R) RECONSTRUCTING SANITARY MANHOLES
- (1) ADJUSTING SANITARY MANHOLES
- (2) ADJUSTING WATER VALVES
- (3) ADJUSTING HYDRANTS



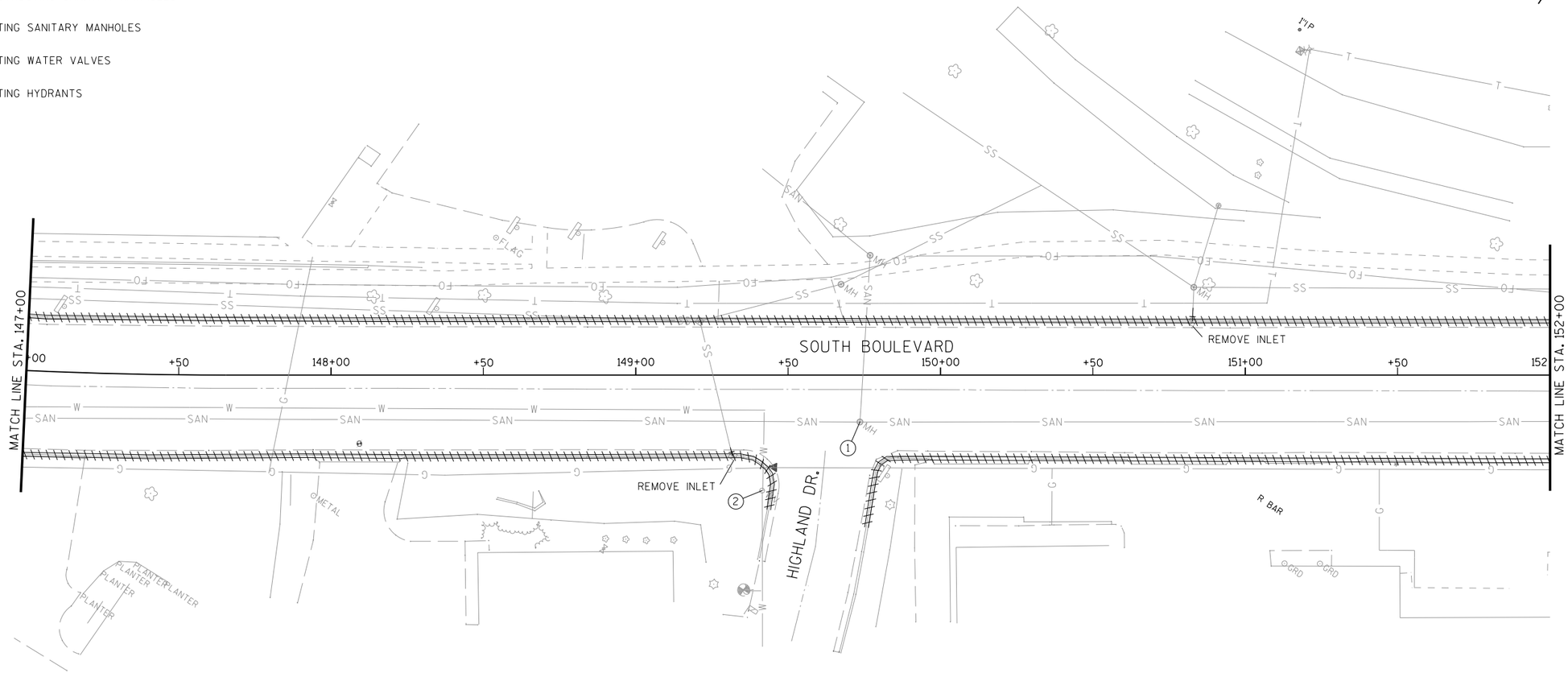
PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	REMOVAL PLAN	SHEET 18	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\021012_cd.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.

2

LEGEND

- TREE TO BE REMOVED
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- (R) RECONSTRUCTING SANITARY MANHOLES
- (1) ADJUSTING SANITARY MANHOLES
- (2) ADJUSTING WATER VALVES
- (3) ADJUSTING HYDRANTS



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	REMOVAL PLAN	SHEET 19	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\021013_cd.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.

WISDOT/CADDS SHEET 42

2

2

N

R BAR

REMOVE INLET

SOUTH BOULEVARD

REMOVE INLET

MATCH LINE STA. 152+00

MATCH LINE STA. 158+00
PROJECT I.D. 5971-02-71

LEGEND

- TREE TO BE REMOVED
- REMOVING CONCRETE SIDEWALK
- REMOVING CURB
- REMOVING CURB AND GUTTER
- REMOVING STORM SEWER
- (R) RECONSTRUCTING SANITARY MANHOLES
- (1) ADJUSTING SANITARY MANHOLES
- (2) ADJUSTING WATER VALVES
- (3) ADJUSTING HYDRANTS

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	REMOVAL PLAN	SHEET 20	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\021014_cd.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.

WISDOT/CADDS SHEET 42

2

N

101+12.40, 102.50' LT
67.5' R.

BEGIN TAPER
STA 101+10.38, 35.0' LT

END TAPER
STA 101+77.74, 33.0' LT

102+07.00, 33.0' LT
24.0' C.E.

ADDITIONAL SITE WORK AT THIS LOCATION TO BE COMPLETED BY OTHERS OUTSIDE OF RIGHT-OF-WAY. CONTRACTOR AND PROJECT ENGINEER TO COORDINATE WITH OWNER AND CITY OF BARABOO PRIOR TO COMPLETING WORK IN THIS LOCATION.

BEGIN TAPER
STA 102+50.00, 24.14' LT

END TAPER
STA 102+76.64, 23.00' LT

104+23.00, 33.0' LT
35.0' C.E.

DRW 30D SW5 DRW

5'
5'

931.99 931.86 931.74 931.64 931.63 931.76 931.86 931.98 932.11 932.23 932.36 932.48 932.61 932.73

MATCH EXISTING PAVEMENT

24.14'

23' SOUTH BOULEVARD

100+00 +50 101+00 +50 102+00 +50 103+00 +50 104+00 +50 105

MATCH LINE STA. 105+00

36D

STA 102+42.00, 17.20' RT
5' R

SC 14.2' 932.67 932.55 932.42 932.32 932.31 SN 932.37

PAV 1

CROWN LINE

932.46 932.56 932.67 932.76 932.87 932.96 933.07 933.16 933.27 933.36

U.S.H. 12

932.85 932.73 932.60 932.47 932.43

BEGIN CURB
STA 100+85

BEGIN TAPER
STA. 101+45.86, 25' RT

24'

MATCH EXISTING PAVEMENT

BEGIN CURB
STA 100+75.6

933.05 932.73 932.40 932.07 932.06 932.16 932.27 932.36 932.47 932.46 932.67 932.76 932.87 932.96

5'

5'

+85.6

BEGIN TAPER
STA. 100+84.61, 48.8' RT

BEGIN TAPER
STA. 101+46.46, 49' RT

END TAPER
STA. 101+24.45, 49' RT

SW5

30D

END TAPER
STA. 102+55, 53.6' RT

BEGIN TAPER
STA. 102+35, 57' RT

ADW 4' DRW GDW

103+43.50
60.0' RT
35.0' C.E.

BEGIN PROJECT 5988-00-70
STA. 100+50.87
Y = 233,524.56
X = 643,882.84

100+89.00, 105.65' RT
45' R.

ADDITIONAL SITE WORK AT THIS LOCATION TO BE COMPLETED BY OTHERS OUTSIDE OF RIGHT-OF-WAY. CONTRACTOR AND PROJECT ENGINEER TO COORDINATE WITH OWNER AND CITY OF BARABOO PRIOR TO COMPLETING WORK IN THIS LOCATION.

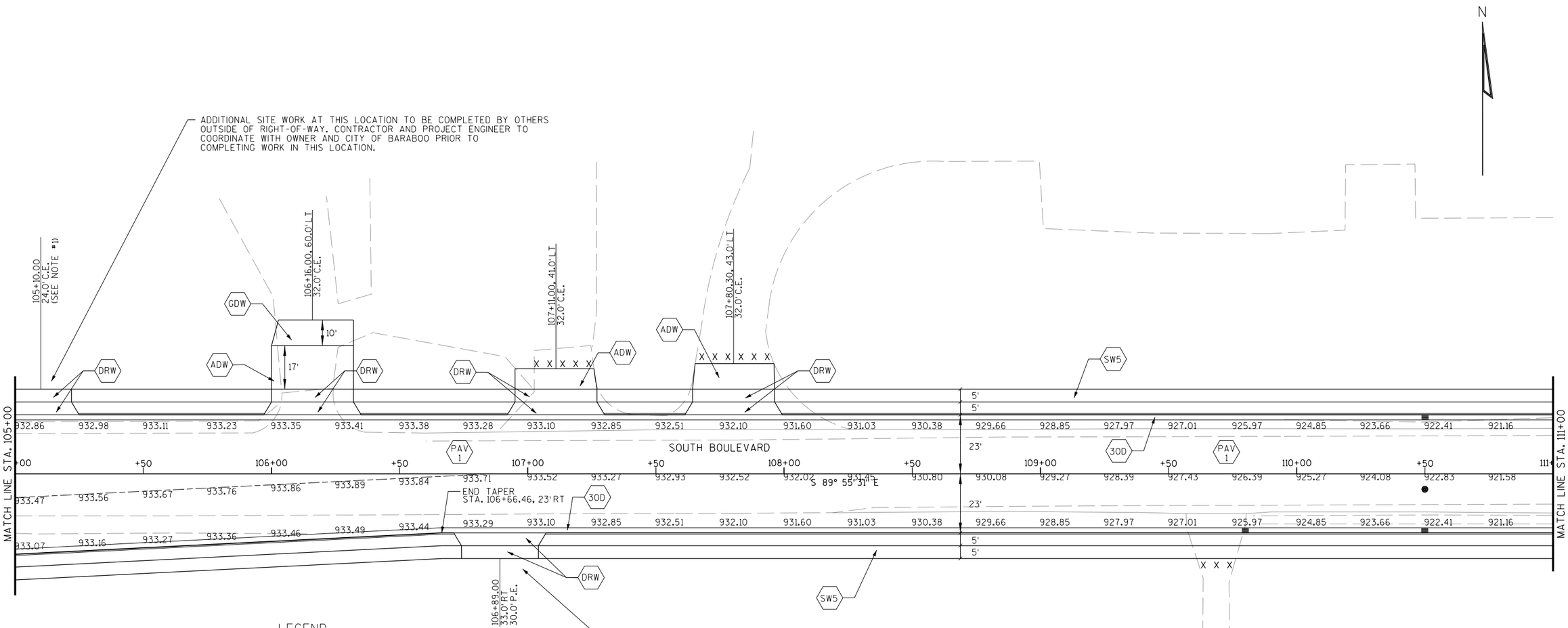
LEGEND

6	CONCRETE CURB TYPE D	PAV 1	5½" HMA PAVEMENT TYPE E-3, OVER 6" BASE AGGREGATE DENSE 1¼INCH, OVER 12" BREAKER RUN
18A	CONCRETE CURB & GUTTER 18-INCH TYPE A	PAV 2	12" CONCRETE PAVEMENT (COLORED), OVER 6" BASE AGGREGATE DENSE 1¼" INCH
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D	RET	RETAINING WALL
36D	CONCRETE CURB & GUTTER 36-INCH TYPE D MODIFIED	CR 1	CURB RAMP TYPE 1
36T	CONCRETE CURB & GUTTER 36-INCH TYPE T	CR 1A	CURB RAMP TYPE 1A
SC	STAMPED COLORED CONCRETE SIDEWALK 4-INCH	CR 2	CURB RAMP TYPE 2
SW5	CONCRETE SIDEWALK 5-INCH	CR 5	CURB RAMP TYPE 5
DRW	6" CONCRETE DRIVEWAY APPROACH, OVER 4" BASE AGGREGATE DENSE 1¼INCH	CR 7B	CURB RAMP TYPE 7B
ADW	3½" ASPHALT DRIVEWAY	CR B	CURB RAMP BIKE
GDW	6" GRAVEL DRIVEWAY	XXXXX	SAWING ASPHALT
CDW	6" CONCRETE DRIVEWAY	YYYYY	SAWING CONCRETE
SN	SLOPED NOSE		

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN DETAILS	SHEET 21	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\021201_pd.dgn PLOT DATE : 3/5/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.

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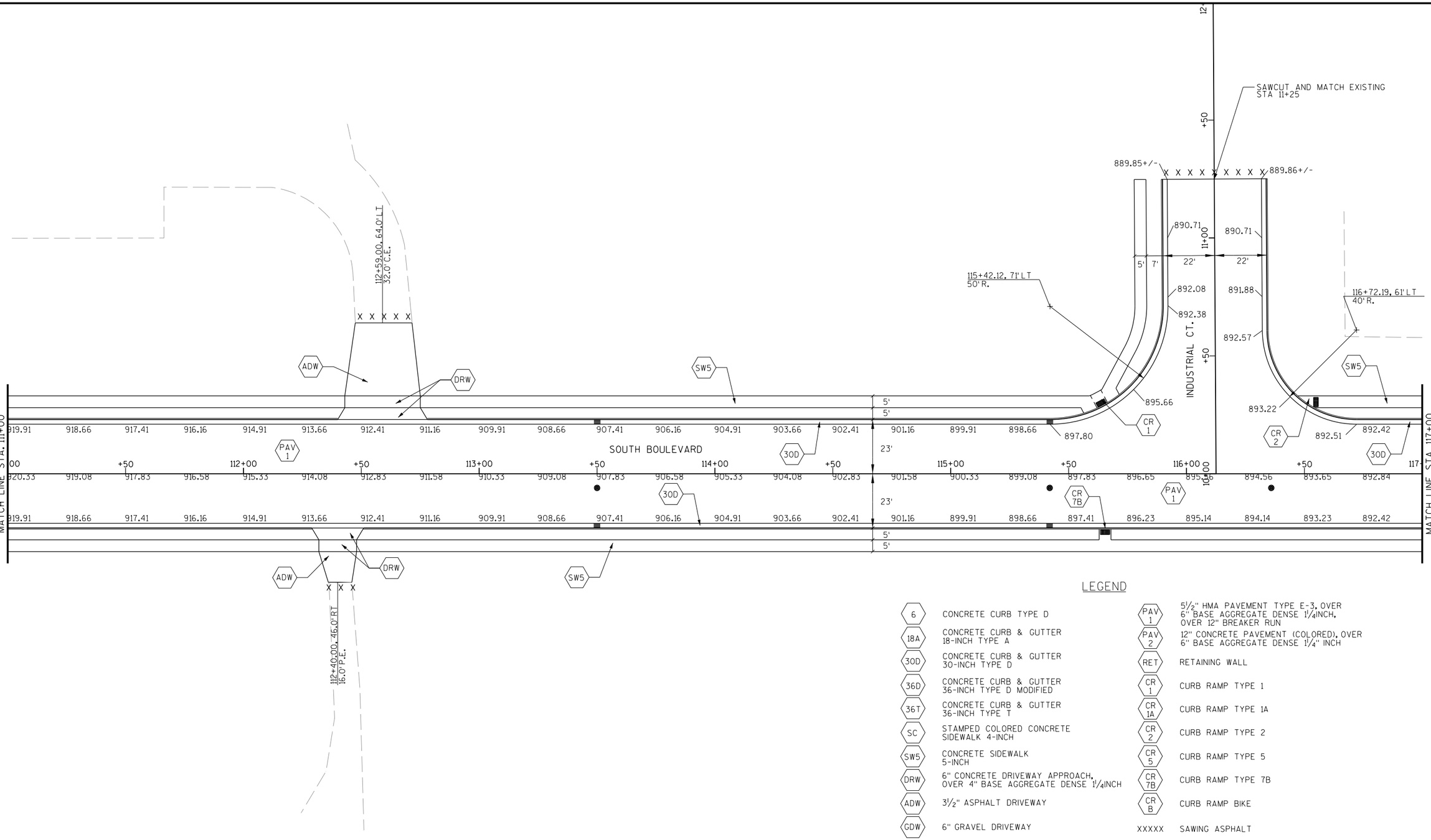


LEGEND

6	CONCRETE CURB TYPE D	PAV 1	5½" HMA PAVEMENT TYPE E-3, OVER 6" BASE AGGREGATE DENSE 1¼INCH, OVER 12" BREAKER RUN
18A	CONCRETE CURB & GUTTER 18-INCH TYPE A	PAV 2	12" CONCRETE PAVEMENT (COLORED), OVER 6" BASE AGGREGATE DENSE 1¼" INCH
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D	RET	RETAINING WALL
36D	CONCRETE CURB & GUTTER 36-INCH TYPE D MODIFIED	CR 1	CURB RAMP TYPE 1
36T	CONCRETE CURB & GUTTER 36-INCH TYPE T	CR 1A	CURB RAMP TYPE 1A
SC	STAMPED COLORED CONCRETE SIDEWALK 4-INCH	CR 2	CURB RAMP TYPE 2
SW5	CONCRETE SIDEWALK 5-INCH	CR 5	CURB RAMP TYPE 5
DRW	6" CONCRETE DRIVEWAY APPROACH, OVER 4" BASE AGGREGATE DENSE 1¼INCH	CR 7B	CURB RAMP TYPE 7B
ADW	3½" ASPHALT DRIVEWAY	CR B	CURB RAMP BIKE
GDW	6" GRAVEL DRIVEWAY	XXXXX	SAWING ASPHALT
CDW	6" CONCRETE DRIVEWAY	YYYYY	SAWING CONCRETE
SN	SLOPED NOSE		

ADDITIONAL SITE WORK AT THIS LOCATION TO BE COMPLETED BY OTHERS OUTSIDE OF RIGHT-OF-WAY. CONTRACTOR AND PROJECT ENGINEER TO COORDINATE WITH OWNER AND CITY OF BARABOO PRIOR TO COMPLETING WORK IN THIS LOCATION.

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN DETAILS	SHEET 22	E



LEGEND

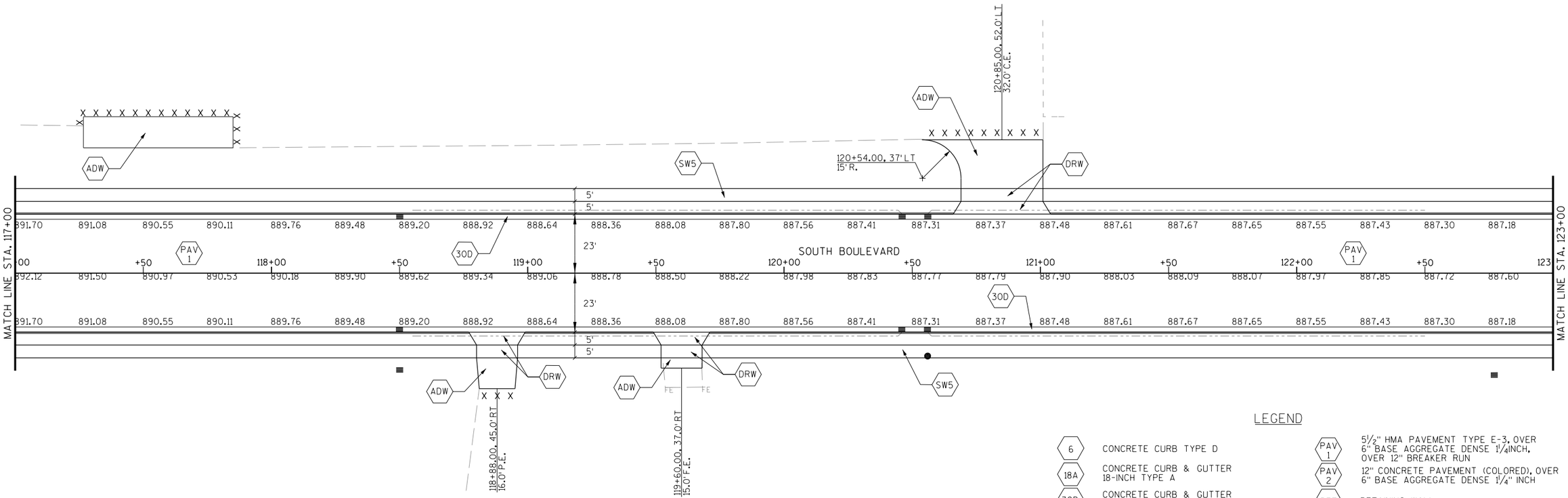
6	CONCRETE CURB TYPE D
18A	CONCRETE CURB & GUTTER 18-INCH TYPE A
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
36D	CONCRETE CURB & GUTTER 36-INCH TYPE D MODIFIED
36T	CONCRETE CURB & GUTTER 36-INCH TYPE T
SC	STAMPED COLORED CONCRETE SIDEWALK 4-INCH
SW5	CONCRETE SIDEWALK 5-INCH
DRW	6" CONCRETE DRIVEWAY APPROACH, OVER 4" BASE AGGREGATE DENSE 1¼INCH
ADW	3½" ASPHALT DRIVEWAY
GDW	6" GRAVEL DRIVEWAY
CDW	6" CONCRETE DRIVEWAY
SN	SLOPED NOSE

PAV 1	5½" HMA PAVEMENT TYPE E-3, OVER 6" BASE AGGREGATE DENSE 1¼INCH, OVER 12" BREAKER RUN
PAV 2	12" CONCRETE PAVEMENT (COLORED), OVER 6" BASE AGGREGATE DENSE 1¼" INCH
RET	RETAINING WALL
CR 1	CURB RAMP TYPE 1
CR 1A	CURB RAMP TYPE 1A
CR 2	CURB RAMP TYPE 2
CR 5	CURB RAMP TYPE 5
CR 7B	CURB RAMP TYPE 7B
CR B	CURB RAMP BIKE
XXXXX	SAWING ASPHALT
YYYYY	SAWING CONCRETE

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN DETAILS	SHEET 23	E

2

N



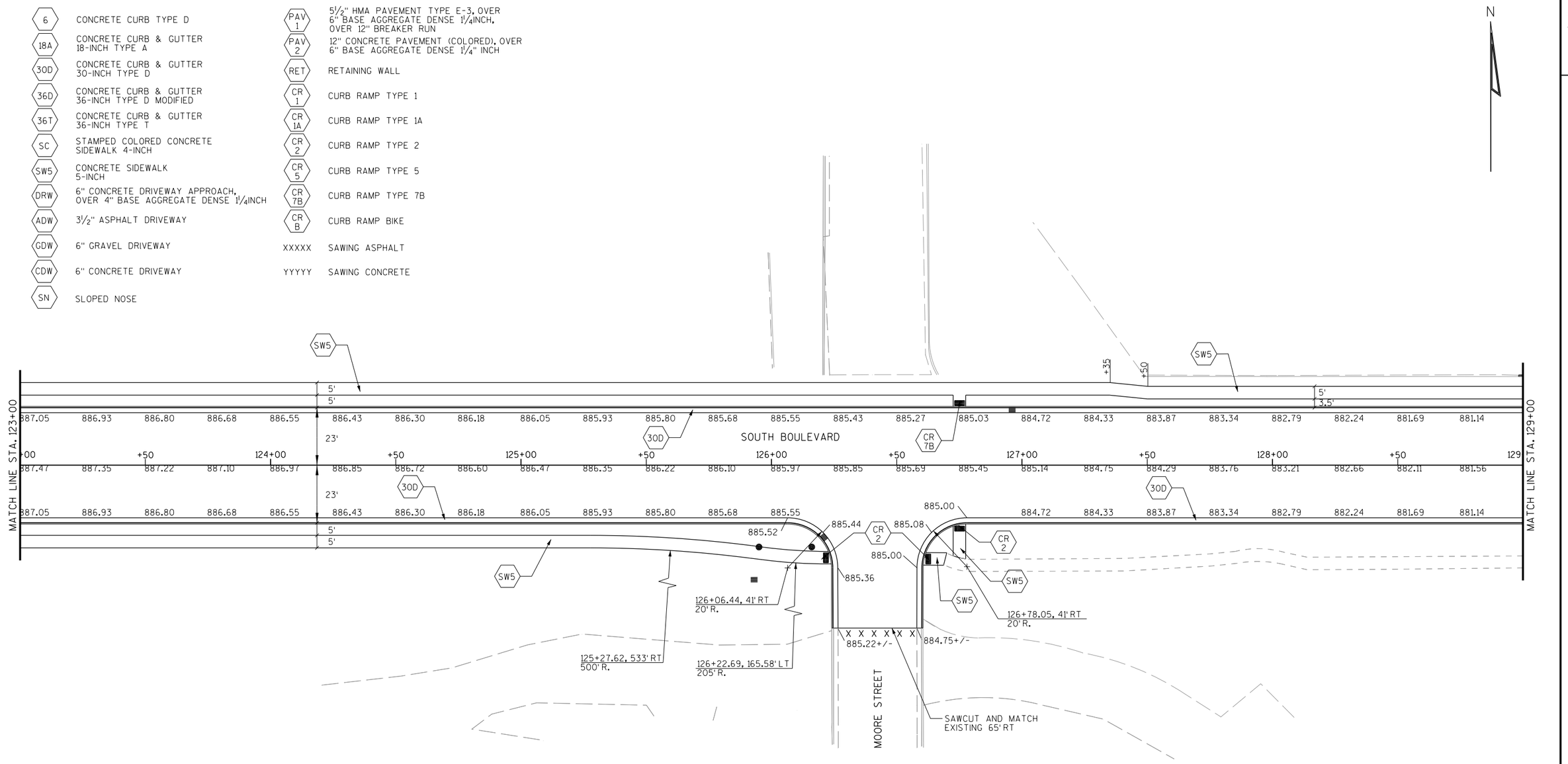
LEGEND

6	CONCRETE CURB TYPE D	PAV 1	5½" HMA PAVEMENT TYPE E-3, OVER 6" BASE AGGREGATE DENSE 1¼INCH, OVER 12" BREAKER RUN
18A	CONCRETE CURB & GUTTER 18-INCH TYPE A	PAV 2	12" CONCRETE PAVEMENT (COLORED), OVER 6" BASE AGGREGATE DENSE 1¼" INCH
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D	RET	RETAINING WALL
36D	CONCRETE CURB & GUTTER 36-INCH TYPE D MODIFIED	CR 1	CURB RAMP TYPE 1
36T	CONCRETE CURB & GUTTER 36-INCH TYPE T	CR 1A	CURB RAMP TYPE 1A
SC	STAMPED COLORED CONCRETE SIDEWALK 4-INCH	CR 2	CURB RAMP TYPE 2
SW5	CONCRETE SIDEWALK 5-INCH	CR 5	CURB RAMP TYPE 5
DRW	6" CONCRETE DRIVEWAY APPROACH, OVER 4" BASE AGGREGATE DENSE 1¼INCH	CR 7B	CURB RAMP TYPE 7B
ADW	3½" ASPHALT DRIVEWAY	CR B	CURB RAMP BIKE
GDW	6" GRAVEL DRIVEWAY	XXXXX	SAWING ASPHALT
CDW	6" CONCRETE DRIVEWAY	YYYYY	SAWING CONCRETE
SN	SLOPED NOSE		

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN DETAILS	SHEET 24	E

LEGEND

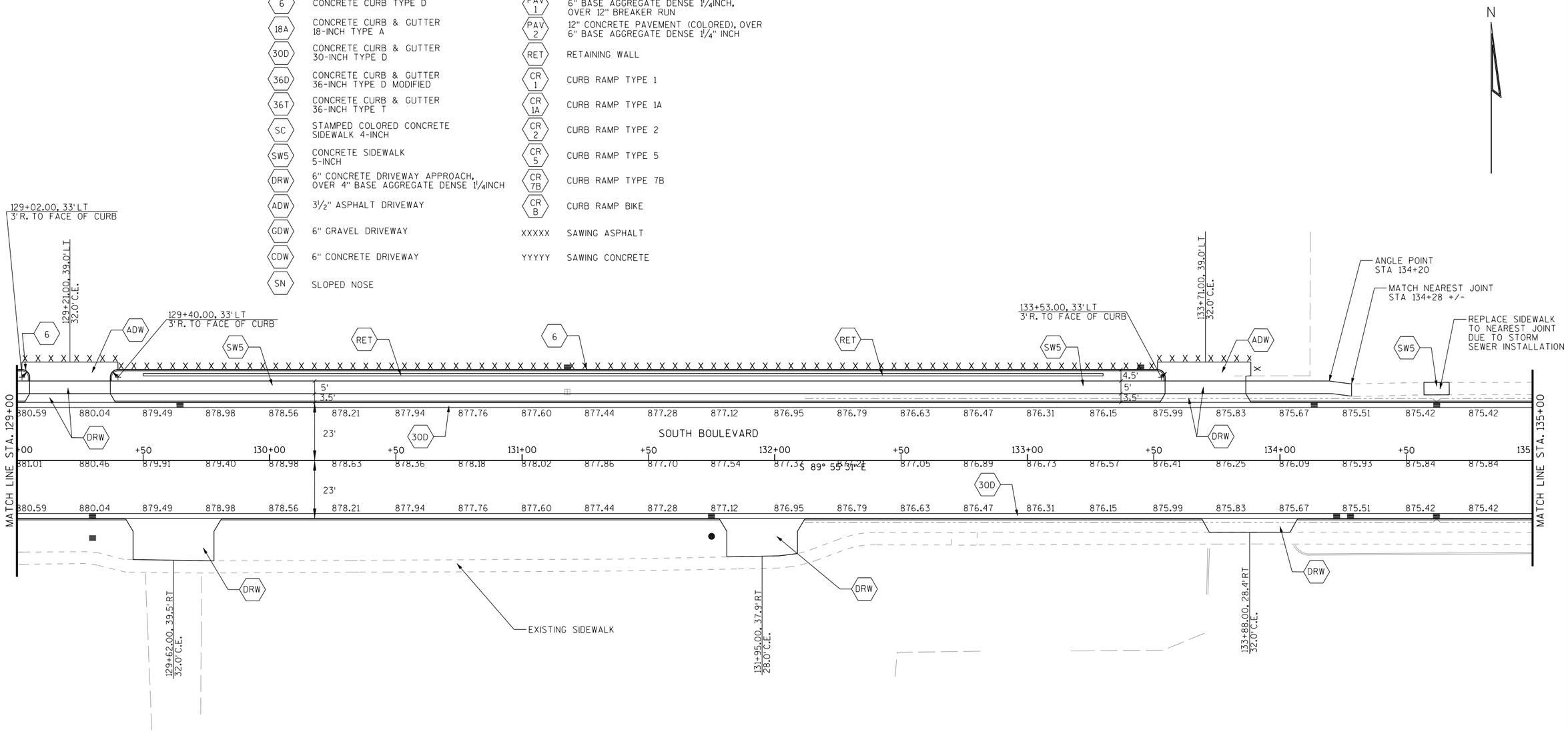
6	CONCRETE CURB TYPE D
18A	CONCRETE CURB & GUTTER 18-INCH TYPE A
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
36D	CONCRETE CURB & GUTTER 36-INCH TYPE D MODIFIED
36T	CONCRETE CURB & GUTTER 36-INCH TYPE T
SC	STAMPED COLORED CONCRETE SIDEWALK 4-INCH
SW5	CONCRETE SIDEWALK 5-INCH
DRW	6" CONCRETE DRIVEWAY APPROACH, OVER 4" BASE AGGREGATE DENSE 1¼INCH
ADW	3½" ASPHALT DRIVEWAY
GDW	6" GRAVEL DRIVEWAY
CDW	6" CONCRETE DRIVEWAY
SN	SLOPED NOSE
PAV 1	5½" HMA PAVEMENT TYPE E-3, OVER 6" BASE AGGREGATE DENSE 1¼INCH, OVER 12" BREAKER RUN
PAV 2	12" CONCRETE PAVEMENT (COLORED), OVER 6" BASE AGGREGATE DENSE 1¼" INCH
RET	RETAINING WALL
CR 1	CURB RAMP TYPE 1
CR 1A	CURB RAMP TYPE 1A
CR 2	CURB RAMP TYPE 2
CR 5	CURB RAMP TYPE 5
CR 7B	CURB RAMP TYPE 7B
CR B	CURB RAMP BIKE
XXXXX	SAWING ASPHALT
YYYYY	SAWING CONCRETE



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN DETAILS	SHEET 25	E

LEGEND

6	CONCRETE CURB TYPE D	PAV 1	5½" HMA PAVEMENT TYPE E-3, OVER 6" BASE AGGREGATE DENSE 1¼INCH, OVER 12" BREAKER RUN
18A	CONCRETE CURB & GUTTER 18-INCH TYPE A	PAV 2	12" CONCRETE PAVEMENT (COLORED), OVER 6" BASE AGGREGATE DENSE 1¼" INCH
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D	RET	RETAINING WALL
36D	CONCRETE CURB & GUTTER 36-INCH TYPE D MODIFIED	CR 1	CURB RAMP TYPE 1
36T	CONCRETE CURB & GUTTER 36-INCH TYPE T	CR 1A	CURB RAMP TYPE 1A
SC	STAMPED COLORED CONCRETE SIDEWALK 4-INCH	CR 2	CURB RAMP TYPE 2
SW5	CONCRETE SIDEWALK 5-INCH	CR 5	CURB RAMP TYPE 5
DRW	6" CONCRETE DRIVEWAY APPROACH, OVER 4" BASE AGGREGATE DENSE 1¼INCH	CR 7B	CURB RAMP TYPE 7B
ADW	3½" ASPHALT DRIVEWAY	CR B	CURB RAMP BIKE
GDW	6" GRAVEL DRIVEWAY	XXXXX	SAWING ASPHALT
CDW	6" CONCRETE DRIVEWAY	YYYYY	SAWING CONCRETE
SN	SLOPED NOSE		

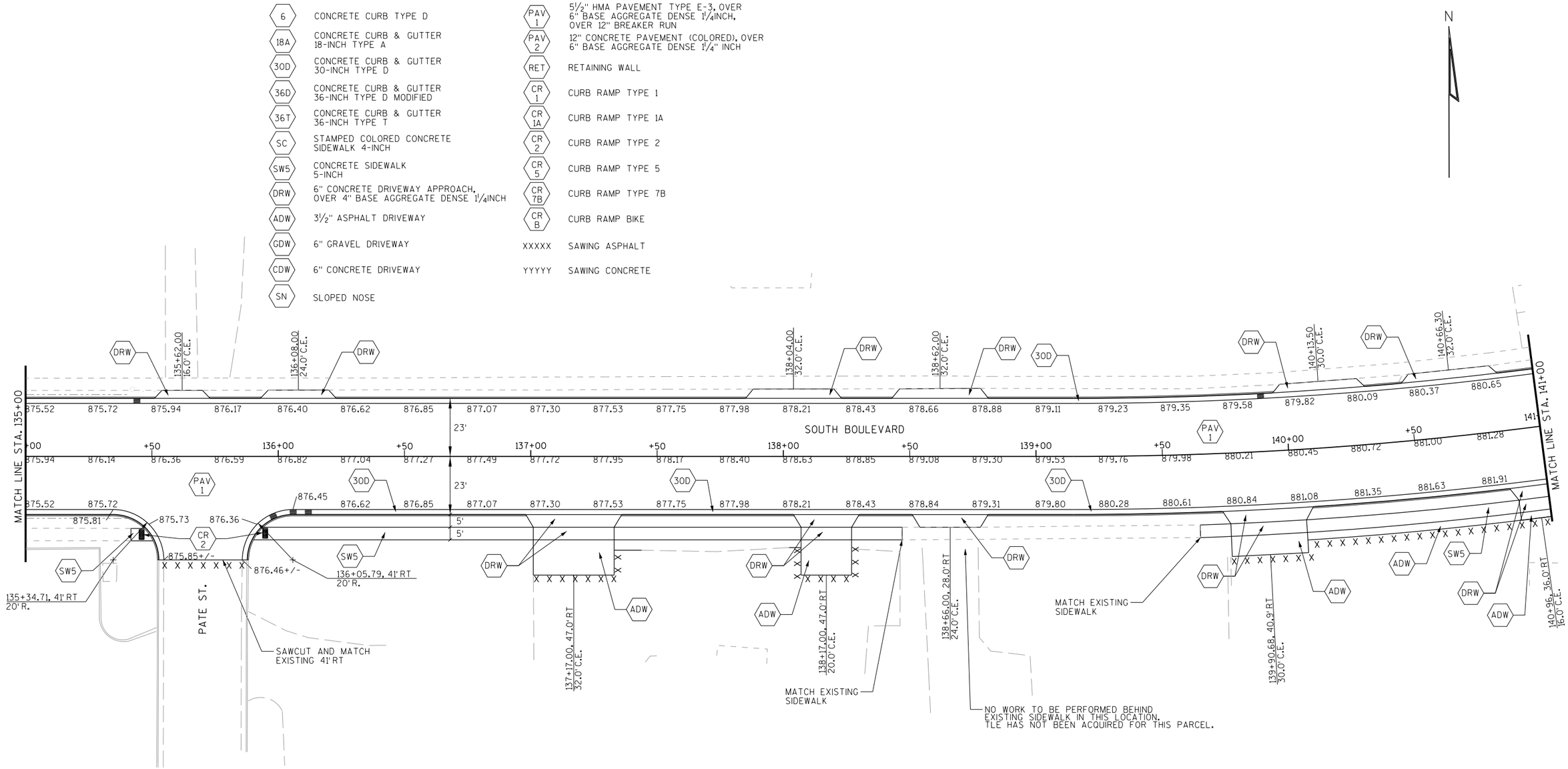


PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN DETAILS	SHEET 26	E

2

LEGEND

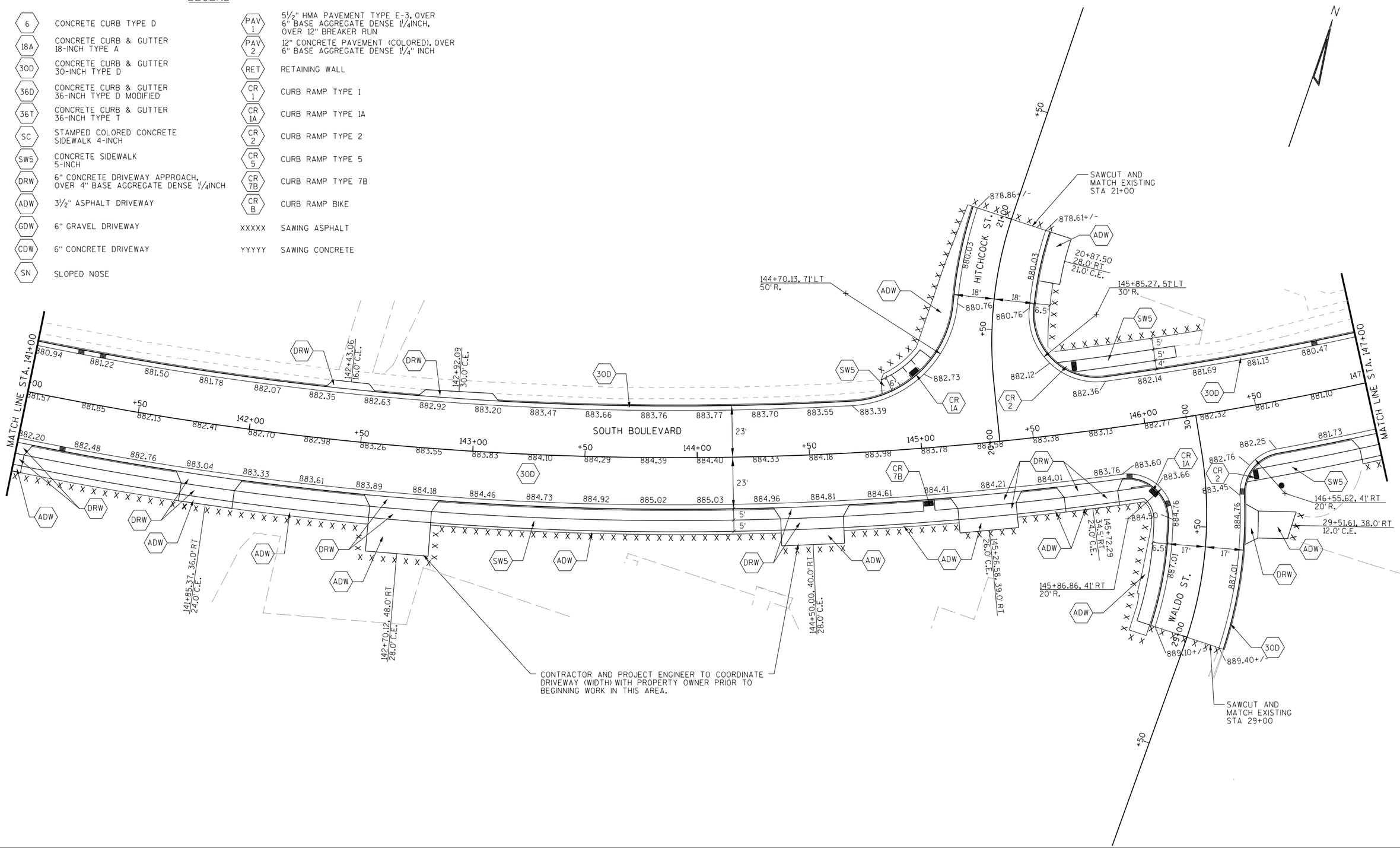
6	CONCRETE CURB TYPE D
18A	CONCRETE CURB & GUTTER 18-INCH TYPE A
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
36D	CONCRETE CURB & GUTTER 36-INCH TYPE D MODIFIED
36T	CONCRETE CURB & GUTTER 36-INCH TYPE T
SC	STAMPED COLORED CONCRETE SIDEWALK 4-INCH
SW5	CONCRETE SIDEWALK 5-INCH
DRW	6" CONCRETE DRIVEWAY APPROACH, OVER 4" BASE AGGREGATE DENSE 1¼INCH
ADW	3½" ASPHALT DRIVEWAY
GDW	6" GRAVEL DRIVEWAY
CDW	6" CONCRETE DRIVEWAY
SN	SLOPED NOSE
PAV 1	5½" HMA PAVEMENT TYPE E-3, OVER 6" BASE AGGREGATE DENSE 1¼INCH, OVER 12" BREAKER RUN
PAV 2	12" CONCRETE PAVEMENT (COLORED), OVER 6" BASE AGGREGATE DENSE 1¼" INCH
RET	RETAINING WALL
CR 1	CURB RAMP TYPE 1
CR 1A	CURB RAMP TYPE 1A
CR 2	CURB RAMP TYPE 2
CR 5	CURB RAMP TYPE 5
CR 7B	CURB RAMP TYPE 7B
CR B	CURB RAMP BIKE
XXXXX	SAWING ASPHALT
YYYYY	SAWING CONCRETE



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN DETAILS	SHEET 27	E

LEGEND

6	CONCRETE CURB TYPE D	PAV 1	5½" HMA PAVEMENT TYPE E-3, OVER 6" BASE AGGREGATE DENSE 1¼INCH, OVER 12" BREAKER RUN
18A	CONCRETE CURB & GUTTER 18-INCH TYPE A	PAV 2	12" CONCRETE PAVEMENT (COLORED), OVER 6" BASE AGGREGATE DENSE 1¼" INCH
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D	RET	RETAINING WALL
36D	CONCRETE CURB & GUTTER 36-INCH TYPE D MODIFIED	CR 1	CURB RAMP TYPE 1
36T	CONCRETE CURB & GUTTER 36-INCH TYPE T	CR 1A	CURB RAMP TYPE 1A
SC	STAMPED COLORED CONCRETE SIDEWALK 4-INCH	CR 2	CURB RAMP TYPE 2
SW5	CONCRETE SIDEWALK 5-INCH	CR 5	CURB RAMP TYPE 5
DRW	6" CONCRETE DRIVEWAY APPROACH, OVER 4" BASE AGGREGATE DENSE 1¼INCH	CR 7B	CURB RAMP TYPE 7B
ADW	3½" ASPHALT DRIVEWAY	CR B	CURB RAMP BIKE
GDW	6" GRAVEL DRIVEWAY	XXXXX	SAWING ASPHALT
CDW	6" CONCRETE DRIVEWAY	YYYYY	SAWING CONCRETE
SN	SLOPED NOSE		

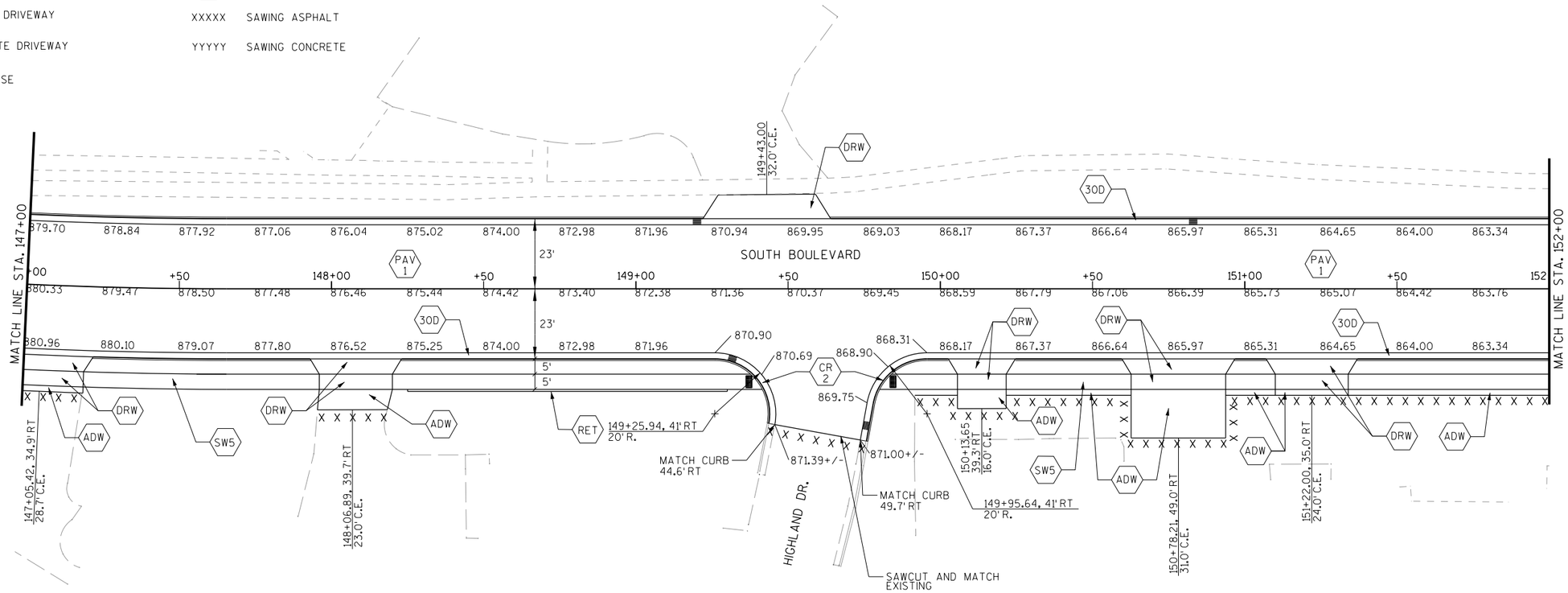


PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN DETAILS	SHEET 28	E

2

LEGEND

6	CONCRETE CURB TYPE D	PAV 1	5½" HMA PAVEMENT TYPE E-3, OVER 6" BASE AGGREGATE DENSE 1¼INCH, OVER 12" BREAKER RUN
18A	CONCRETE CURB & GUTTER 18-INCH TYPE A	PAV 2	12" CONCRETE PAVEMENT (COLORED), OVER 6" BASE AGGREGATE DENSE 1¼" INCH
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D	RET	RETAINING WALL
36D	CONCRETE CURB & GUTTER 36-INCH TYPE D MODIFIED	CR 1	CURB RAMP TYPE 1
36T	CONCRETE CURB & GUTTER 36-INCH TYPE T	CR 1A	CURB RAMP TYPE 1A
SC	STAMPED COLORED CONCRETE SIDEWALK 4-INCH	CR 2	CURB RAMP TYPE 2
SW5	CONCRETE SIDEWALK 5-INCH	CR 5	CURB RAMP TYPE 5
DRW	6" CONCRETE DRIVEWAY APPROACH, OVER 4" BASE AGGREGATE DENSE 1¼INCH	CR 7B	CURB RAMP TYPE 7B
ADW	3½" ASPHALT DRIVEWAY	CR B	CURB RAMP BIKE
GDW	6" GRAVEL DRIVEWAY	XXXXX	SAWING ASPHALT
CDW	6" CONCRETE DRIVEWAY	YYYYY	SAWING CONCRETE
SN	SLOPED NOSE		

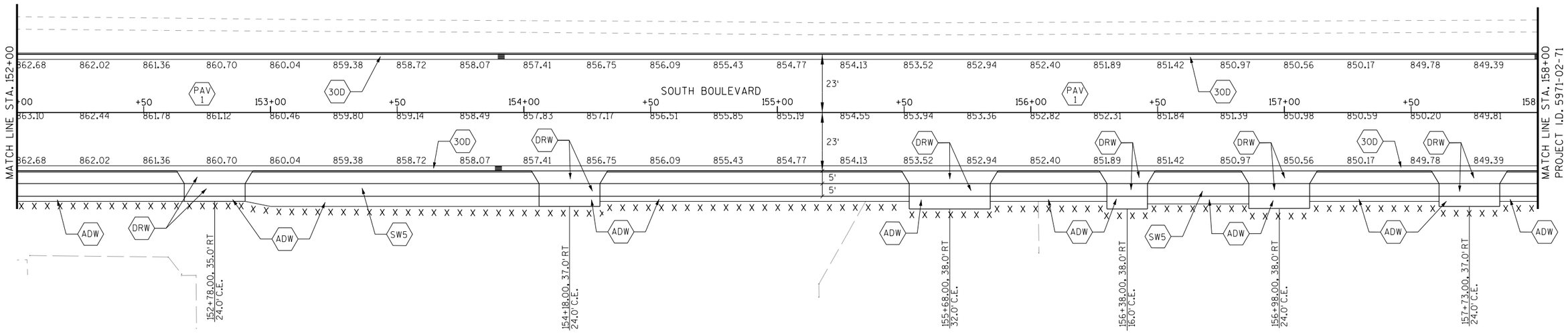


PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN DETAILS	SHEET 29	E

LEGEND

6	CONCRETE CURB TYPE D
18A	CONCRETE CURB & GUTTER 18-INCH TYPE A
30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
36D	CONCRETE CURB & GUTTER 36-INCH TYPE D MODIFIED
36T	CONCRETE CURB & GUTTER 36-INCH TYPE T
SC	STAMPED COLORED CONCRETE SIDEWALK 4-INCH
SW5	CONCRETE SIDEWALK 5-INCH
DRW	6" CONCRETE DRIVEWAY APPROACH, OVER 4" BASE AGGREGATE DENSE 1¼INCH
ADW	3½" ASPHALT DRIVEWAY
GDW	6" GRAVEL DRIVEWAY
CDW	6" CONCRETE DRIVEWAY
SN	SLOPED NOSE
PAV 1	5½" HMA PAVEMENT TYPE E-3, OVER 6" BASE AGGREGATE DENSE 1¼INCH, OVER 12" BREAKER RUN
PAV 2	12" CONCRETE PAVEMENT (COLORED), OVER 6" BASE AGGREGATE DENSE 1¼" INCH
RET	RETAINING WALL
CR 1	CURB RAMP TYPE 1
CR 1A	CURB RAMP TYPE 1A
CR 2	CURB RAMP TYPE 2
CR 5	CURB RAMP TYPE 5
CR 7B	CURB RAMP TYPE 7B
CR B	CURB RAMP BIKE
XXXXX	SAWING ASPHALT
YYYYY	SAWING CONCRETE

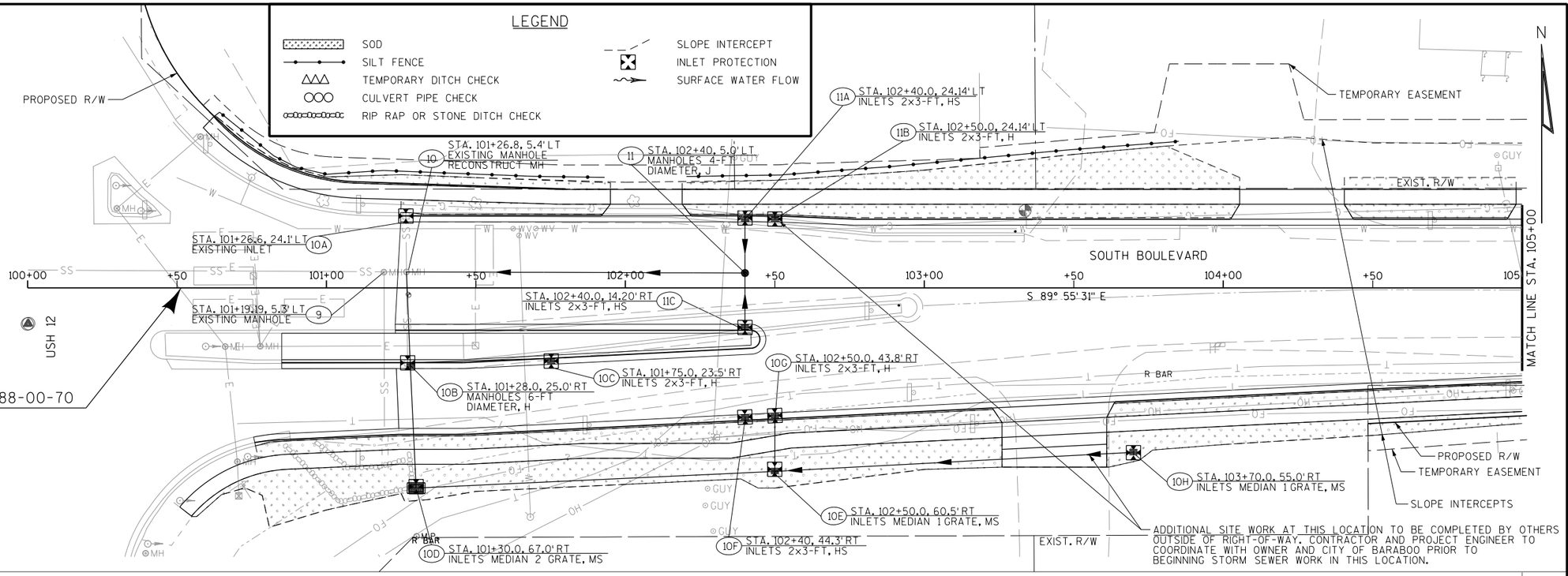


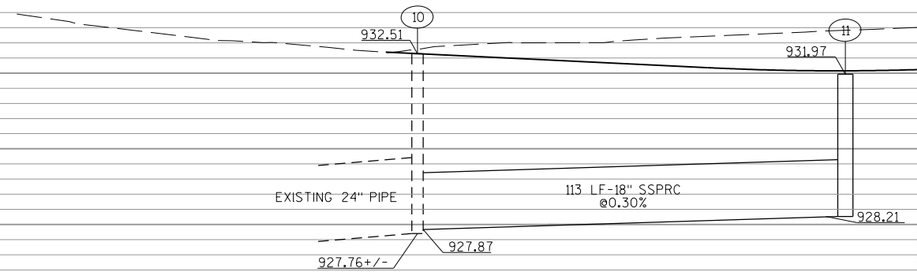


PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN DETAILS	SHEET 30	E

LEGEND

- SOD
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW



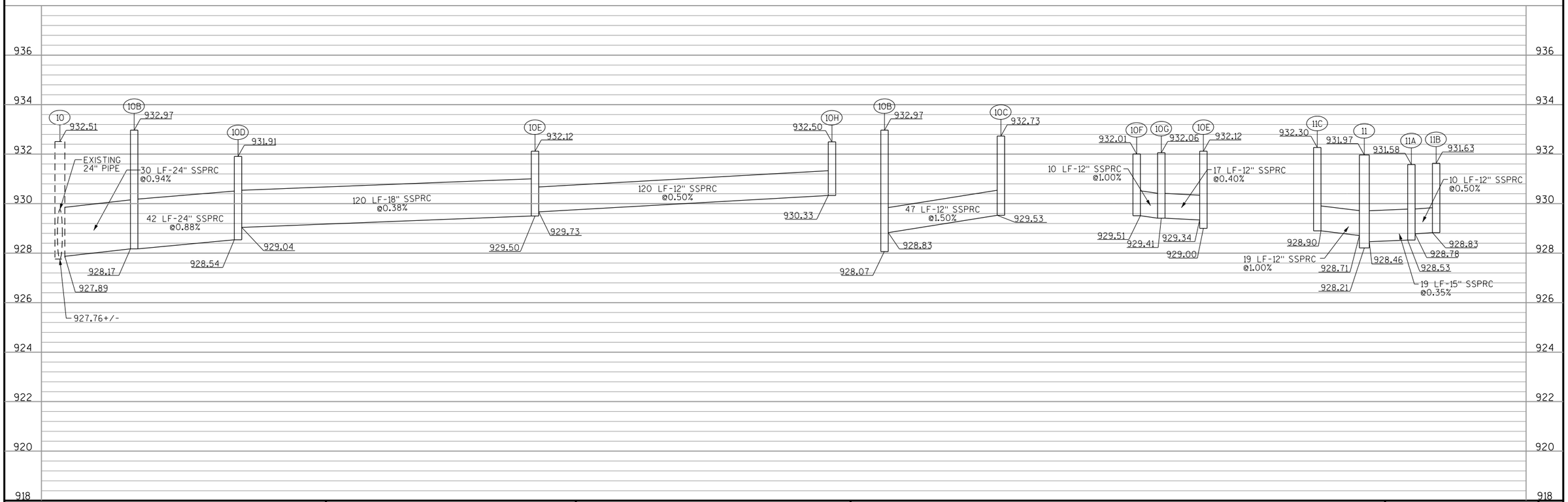


RUNOFF COEFFICIENT TABLE

	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 = 14.49 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 12.38 ACRES

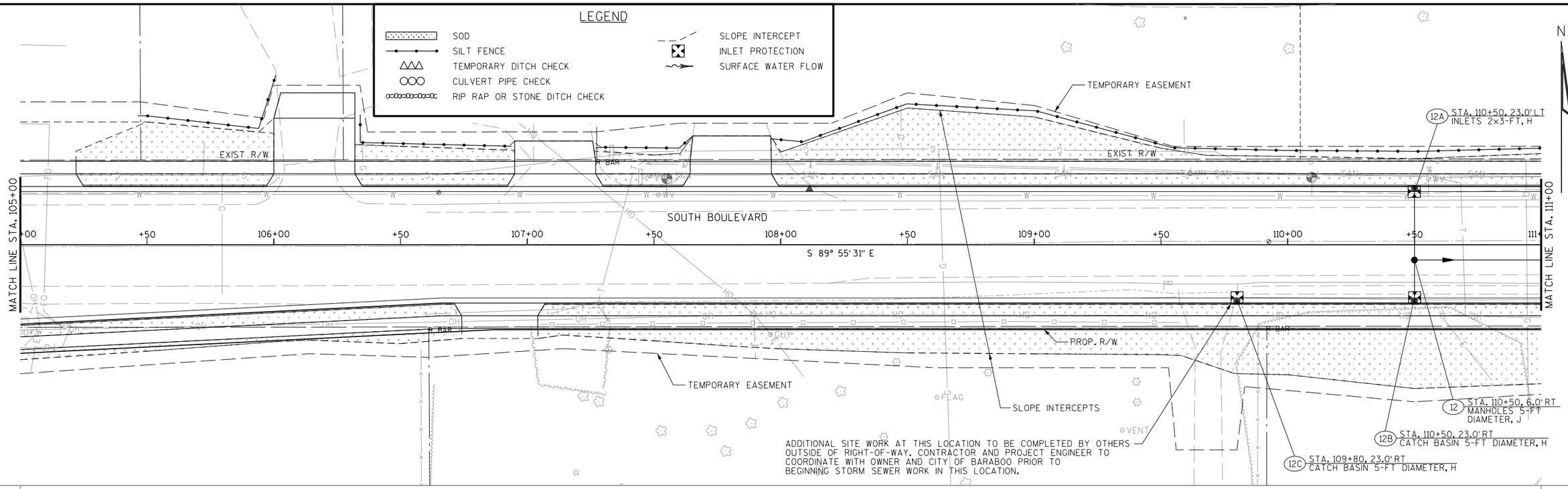
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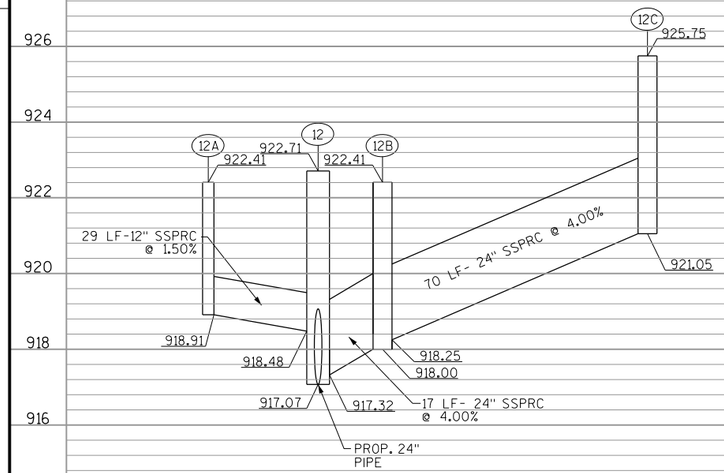


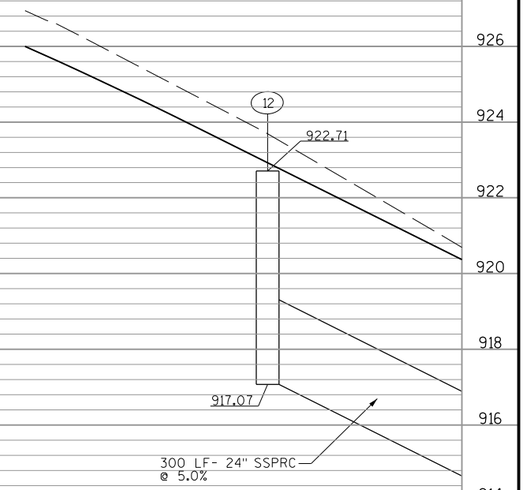
PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STORM SEWER/EROSION CONTROL	SHEET 32	E

LEGEND

- SOD
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW







PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STORM SEWER/EROSION CONTROL	SHEET 33 E

2

LEGEND

- SOD
- SILT FENCE
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECK
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW

STA. 112+40-112+84, 55.0' LT
44"X18" CPCS WITH APRON
ENDWALLS REQUIRED
W I.E. 907.70 E I.E. 906.60

TEMPORARY EASEMENT

SLOPE INTERCEPTS

EXIST. R/W

13A STA. 113+50, 23.0' LT
INLETS 2x3-FT, H

14 STA. 115+42, 6.0' RT
MANHOLES 4-FT
DIAMETER, J

14A STA. 115+42, 23.0' LT
INLETS 2x3-FT, H

INDUSTRIAL CT.

EXIST. R/W

R. BAR

MATCH LINE STA. 111+00

SOUTH BOULEVARD

S 89° 55' 31" E

15 STA. 116+36.2, 6.0' RT
MANHOLES 8-FT
DIAMETER, J

MATCH LINE STA. 117+00

PROP. R/W

13 STA. 113+50, 6.0' RT
MANHOLES 4-FT
DIAMETER, J

STA. 113+50, 23.0' RT
INLETS 2x3-FT, H 13B

STA. 115+42, 23.0' RT
INLETS 2x3-FT, H 14B

TEMPORARY EASEMENT

16 STA. 116+36.2, 32.0' RT
RECONSTRUCT MANHOLE
ADD TYPE J COVER

N

-5.00%

300 LF-24" SSPRC
@5.0%

13A 907.41
13 907.71
13B 907.41

29 LF-12" SSPRC
@1.50%

17 LF-12" SSPRC
@1.50%

903.91
903.48
903.66
903.91
901.97

192 LF-24" SSPRC
@5.0%

14A 897.81
14 898.11
14B 897.81

29 LF-12" SSPRC
@1.50%

17 LF-12" SSPRC
@1.50%

894.31
893.88
894.06
894.31
892.27

13 907.71
902.07
901.97

14 898.11
892.37
892.27

94 LF-24" SSPRC
@ 5.0%

15 894.03
887.57
879.50

CONNECT TO EXIST.
38"x60" PIPE

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STORM SEWER/EROSION CONTROL	SHEET 34 E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\022503_ss.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.

WISDOT/CADDS SHEET 41

2

N

MATCH LINE STA. 117+00

MATCH LINE STA. 123+00

TEMPORARY EASEMENT

17A STA. 118+50, 23.0' LT
INLETS 2x3-FT, H

18A STA. 120+46, 23.0' LT
INLETS 2x3-FT, H

18B STA. 120+56, 23.0' LT
INLETS 2x3-FT, HS

SLOPE INTERCEPTS

19 STA. 122+76.9, 32.9' RT
RECONSTRUCT MANHOLE
ADD TYPE J COVER

EXIST. R/W

EXIST. R/W

SOUTH BOULEVARD

PIPE UNDERDRAIN
WRAPPED 6-INCH
ENDS STA 122+50 LT

STA. 118+50, 23.0' RT
INLETS 2x3-FT, H 17B

PIPE UNDERDRAIN WRAPPED 6-INCH
BEGINS STA 118+55 LT & RT

STA. 122+77, 40' RT
INLETS MEDIAN 2
GRATE, MS 19A

PIPE UNDERDRAIN
WRAPPED 6-INCH
ENDS STA 122+50 RT

PERMANANT EASEMENT

PERMANANT EASEMENT

17 STA. 119+50, 32.2' RT
RECONSTRUCT MANHOLE
ADD TYPE J COVER

17D STA. 119+29.7, 32.0' RT
RECONSTRUCT MANHOLE
ADD TYPE J COVER

17C STA. 118+50, 38.0' RT
INLETS MEDIAN 1 GRATE, MS

TEMPORARY EASEMENT

18 STA. 120+56, 32.3' RT
MANHOLES 6-FT
DIAMETER, J

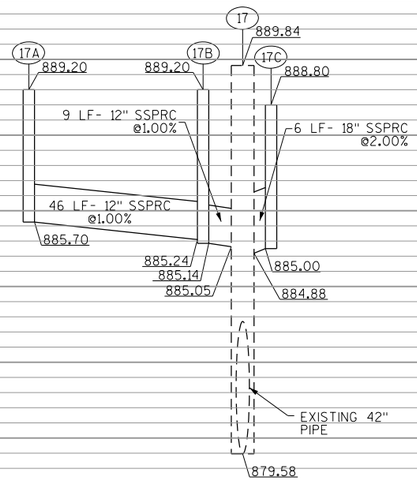
18D STA. 120+56, 23.0' RT
INLETS 2x3-FT, HS

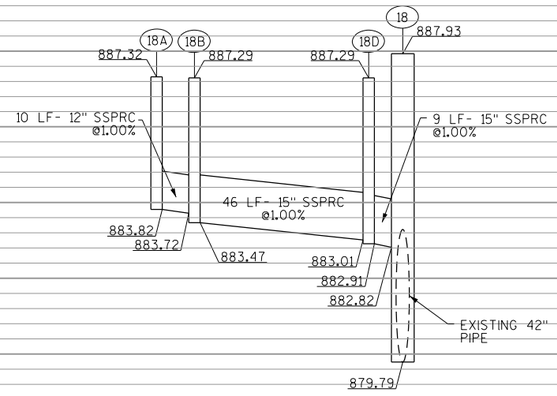
18C STA. 120+46, 23.0' RT
INLETS 2x3-FT, H

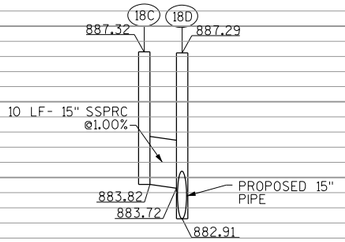
PROP. R/W

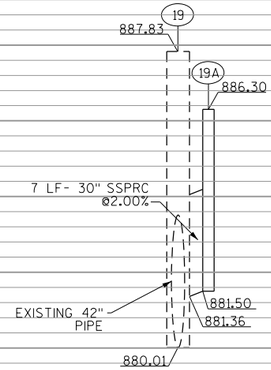
LEGEND

- SOD
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW



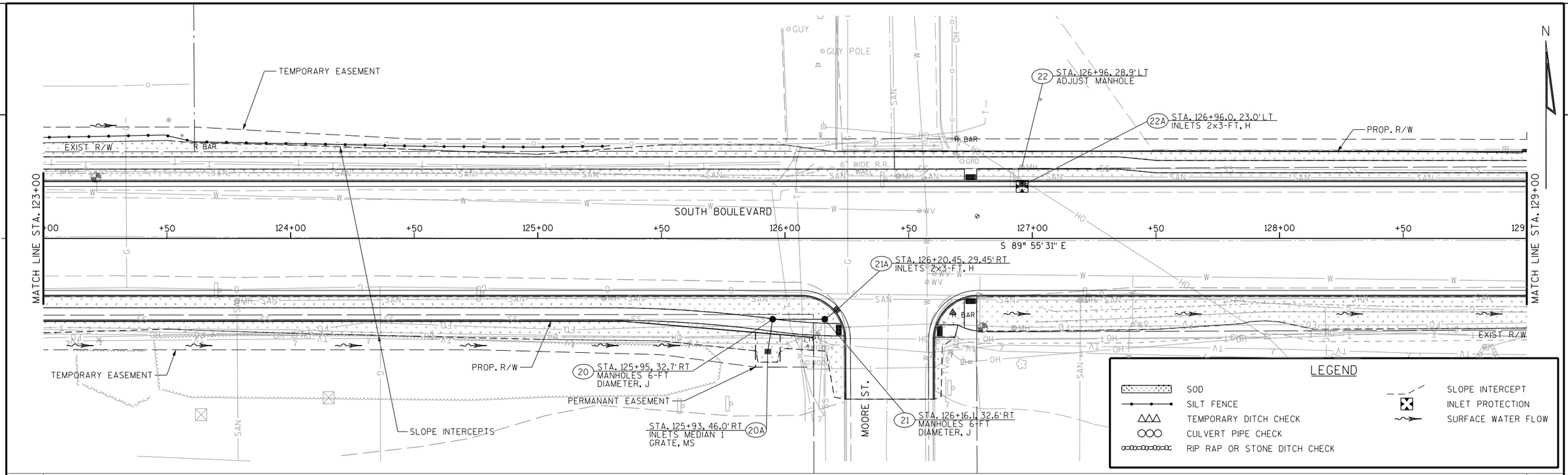


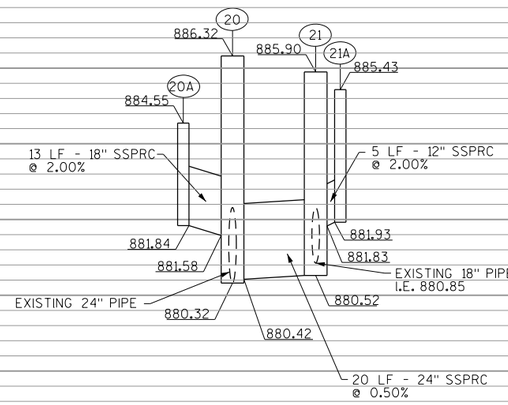


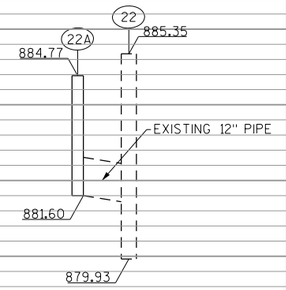


PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STORM SEWER/EROSION CONTROL	SHEET 35	E

2







888 886 884 882 880 878 876 874 872 870

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STORM SEWER/EROSION CONTROL	SHEET 36 E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\022505_ss.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.

2

N

MATCH LINE STA. 129+00

MATCH LINE STA. 135+00

SOUTH BOULEVARD

129+00 +50 130+00 +50 131+00 +50 132+00 +50 133+00 +50 134+00 +50 135

S 89° 55' 31" E

24 STA. 129+64.4, 27.6'LT
ADJUST MANHOLE

24A STA. 129+64.5, 23.0'LT
INLETS 2x3-FT, H

24B STA. 130+44.5, 27.3'LT
ADJUST MANHOLE
ADD TYPE J COVER

25A STA. 131+18, 36.0'LT
INLETS 2x3-FT, H

25 STA. 131+17.9, 27.1'LT
ADJUST MANHOLE
ADD TYPE J COVER

27 STA. 132+34.1, 26.7'LT
ADJUST MANHOLE

TEMPORARY EASEMENT

27A STA. 133+45, 36.0'LT
INLETS 2x3-FT, H

28 STA. 134+13.5, 23.0'LT
INLETS 2x3-FT, H

28A STA. 134+62, 23.0'LT
INLETS 2x3-FT, HS

PROP. R/W

EXIST. R/W

CORE INTO
EXISTING PIPE

CORE INTO
EXISTING PIPE

23A STA. 129+30, 23.0'RT
INLETS 2x3-FT, H

23 STA. 129+30, 31.0'RT
MANHOLES 6-FT DIAMETER, C

SIDEWALK EASEMENT

SLOPE INTERCEPTS

26A STA. 131+75.23, 23.0'RT
INLETS 2x3-FT, H

26 STA. 131+75, 30.0'RT
MANHOLES 6-FT DIAMETER, J

PIPE UNDERDRAIN WRAPPED 6-INCH
BEGINS STA 132+12 LT & RT

UNDERDRAIN
TO INLETS

29A STA. 134+28.0, 23.0'RT
INLETS 2x3-FT, H

STA. 134+22.5, 23.0'RT
INLETS 2x3-FT, H

29 CORE INTO
EXISTING PIPE

29B STA. 134+62.0, 23.0'RT
INLETS 2x3-FT, HS

EXIST. R/W

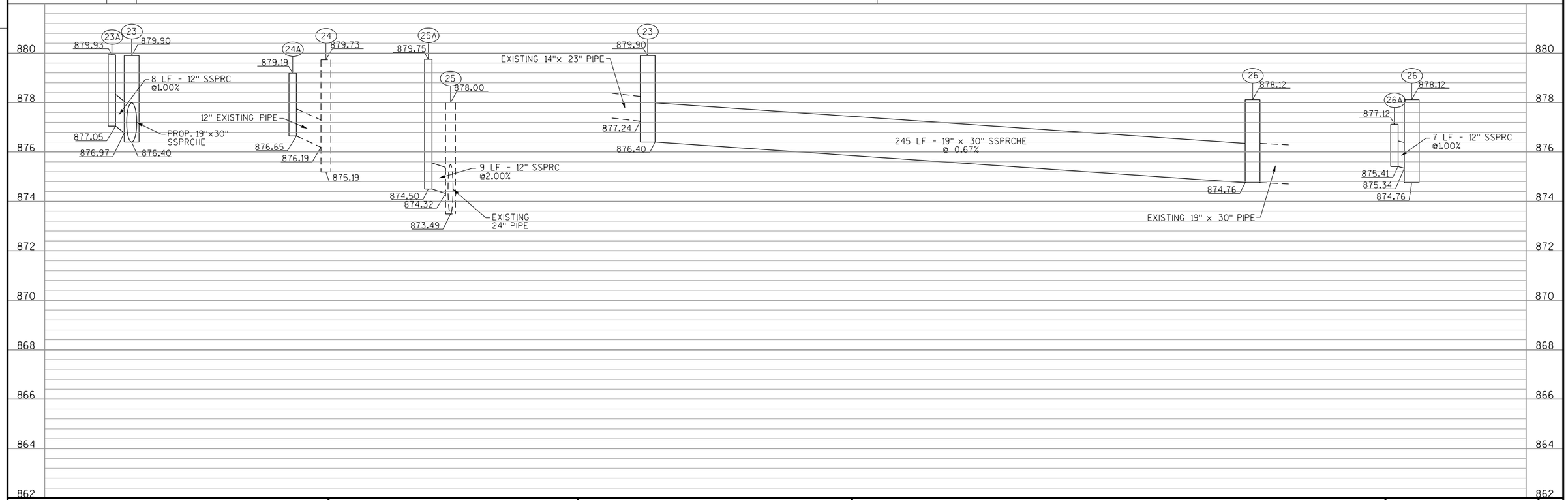
EXIST. R/W

GUY

GRD

LEGEND

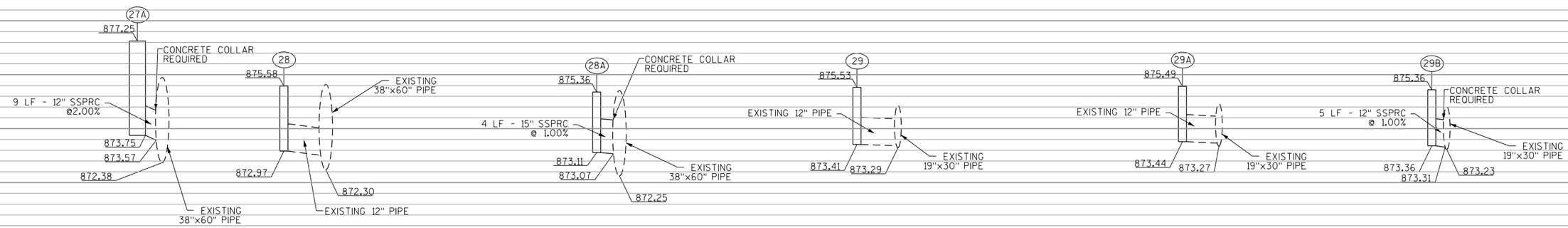
- SOD
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STORM SEWER/EROSION CONTROL	SHEET 37	E

2

880
878
876
874
872
870
868
866
864
862



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STORM SEWER/EROSION CONTROL	SHEET 38	E

2

STA. 135+43.60, 27.1' LT
EXISTING MANHOLE
NO ADJUSTMENT

32A STA. 135+44.0, 23.0' LT
INLETS 2x3-FT, H

32B STA. 135+89.7, 19.0' LT
ADJUST MANHOLE

32C STA. 136+23.9, 40.5' LT
EXISTING MANHOLE
NO ADJUSTMENT

32D STA. 136+27.0, 21.3' LT
ADJUST MANHOLE

33 STA. 139+79.1, 21.7' LT
ADJUST MANHOLE

33A STA. 139+90.0, 23.0' LT
INLETS 2x3-FT, H

EXIST. R/W

MATCH LINE STA. 135+00

MATCH LINE STA. 141+00

SOUTH BOULEVARD

135+00 +50 136+00 +50 137+00 +50 138+00 +50 139+00 +50 140+00 +50 141

31A STA. 135+98.5, 24.5' RT
MANHOLES 4-FT DIAMETER, H

PIPE UNDERDRAIN WRAPPED 6-INCH
ENDS STA 135+40 LT & RT

30 STA. 135+48.4, 27.4' RT
ADJUST INLET

30A STA. 135+52.7, 40.4' RT
EXISTING INLET
NO ADJUSTMENT

PATE ST.

EXIST. R/W

31C STA. 136+12.0, 23.0' RT
INLETS 2x3-FT, H

31B STA. 136+06.0, 23.0' RT
INLETS 2x3-FT, H

31 STA. 135+89.2, 24.4' RT
ADJUST MANHOLE

TEMPORARY EASEMENT

SLOPE INTERCEPTS

1"IP

1"IP BAR

N

LEGEND

- SOD
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW

882 880 878 876 874 872 870 868 866 864

32A 875.89
32 876.14
EXISTING 15" PIPE
873.20
872.14

31A 876.31
31B 876.45
31 876.27
31C 876.50
8 LF - 15" SSPRC @ 2.00%
6 LF - 15" SSPRC @ 2.00%
EXISTING 18" PIPE
873.25
873.13
872.97
872.72
872.33

33 879.62
33A 879.72
11 LF - 15" SSPRC @ 2.00%
875.72
875.50
EXISTING 30" PIPE
870.28

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STORM SEWER/EROSION CONTROL	SHEET 39 E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\022507_ss.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.

LEGEND

- SOD
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW

(34) STA. 141+20.3, 14.9' LT
RECONSTRUCT MH

(34A) STA. 141+20.0, 23.0' LT
INLETS 2x3-FT, H

(34B) STA. 141+30.0, 23.0' LT
INLETS 2x3-FT, H

(34C) STA. 141+20, 23.0' RT
INLETS 2x3-FT, H

(35) STA. 142+38.8, 16.2' LT
ADJUST MANHOLE

(38) STA. 146+81.2, 23.0' LT
RECONSTRUCT MANHOLE
ADD TYPE H COVER

(36) STA. 146+54.8, 37.4' RT
MANHOLES 4-FT
DIAMETER, J

(36A) STA. 146+38.5, 37.0' RT
INLETS 2x3-FT, H

(36B) STA. 146+04.0, 37.0' RT
INLETS 2x3-FT, H

(36C) STA. 145+90, 23.1' RT
INLETS 2x3-FT, H

MATCH LINE STA. 141+00

MATCH LINE STA. 147+00

SOUTH BOULEVARD

HITCHCOCK ST.

WALDO ST.

EXIST. R/W

TEMPORARY EASEMENT

SLOPE INTERCEPTS

EXISTING 30" PIPE

EXISTING 15" PIPE

38 LF - 12" SSPRC @ 3.00%

8 LF - 18" SSPRC @ 2.00%

10 LF - 15" SSPRC @ 2.00%

20 LF - 12" SSPRC @ 0.50%

35 LF - 12" SSPRC @ 1.20%

17 LF - 12" SSPRC @ 2.50%

882.42 (34C)
881.16 (34A)
881.35 (34)
881.28 (34B)
878.92
877.78
877.78
877.58
877.16
877.00
869.22

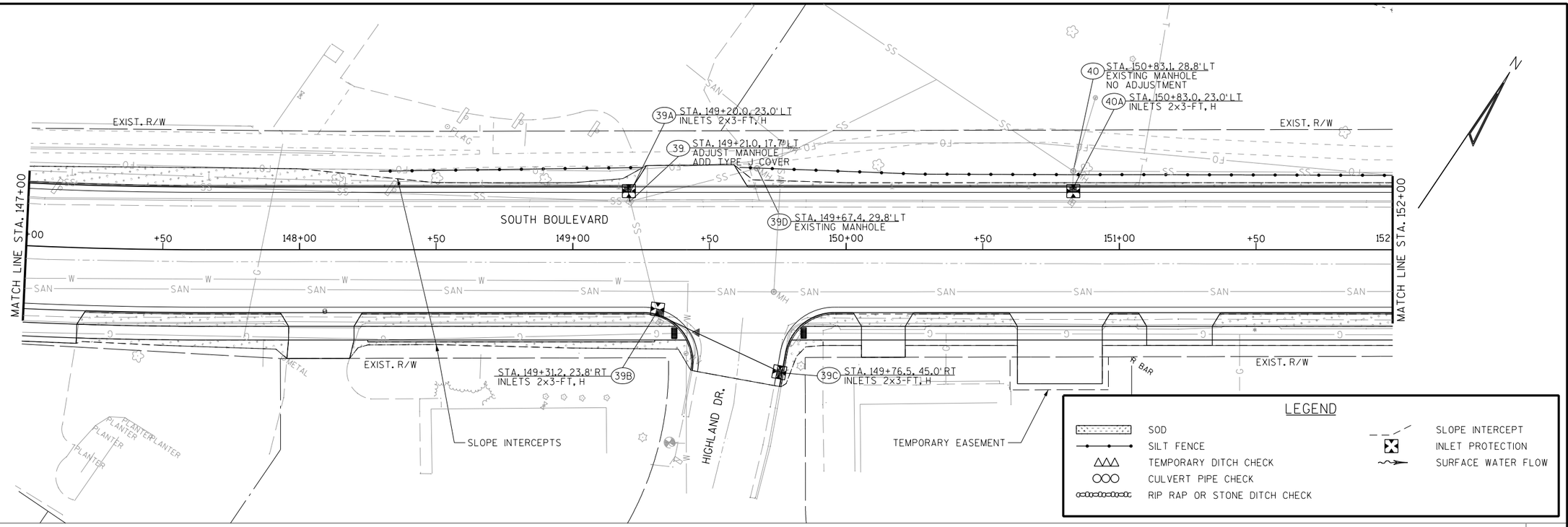
883.56 (36C)
884.14 (36B)
883.35 (36A)
883.65 (36)
880.06
879.96
879.76
879.34
879.14
878.72
877.96

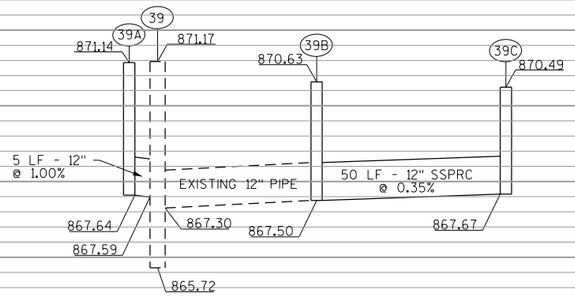
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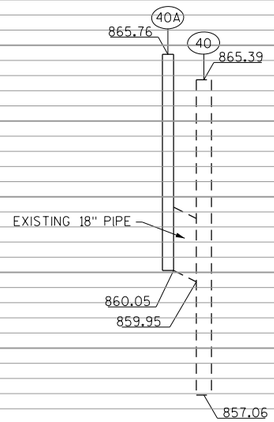
PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STORM SEWER/EROSION CONTROL	SHEET 40	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\022508_ss.dgn
PLOT DATE : 1/27/2014
PLOT BY : GRAEF
PLOT NAME :
PLOT SCALE : 40.0000 ft / in.

2







PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STORM SEWER/EROSION CONTROL	SHEET 41 E

2

R BAR

(41) STA. 153+91.2, 27.3' LT
EXISTING MANHOLE
NO ADJUSTMENT

(41A) STA. 153+91.0, 23.0' LT
INLETS 2x3-FT, H

EXIST. R/W

EXIST. R/W

MATCH LINE STA. 152+00

MATCH LINE STA. 158+00
PROJECT I.D. 5971-02-71

SOUTH BOULEVARD

152+00 +50 153+00 +50 154+00 +50 155+00 +50 156+00 +50 157+00 +50 158

EXIST. R/W

EXIST. R/W

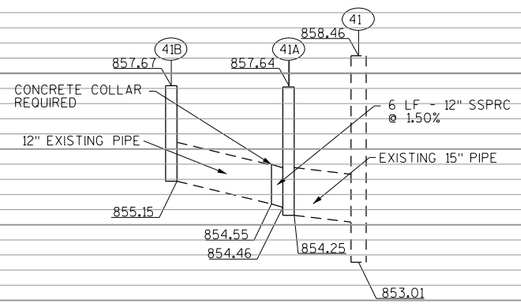
(41B) STA. 153+90.0, 23.0' RT
INLETS 2x3-FT, H

SLOPE INTERCEPTS

LEGEND

- SOD
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW

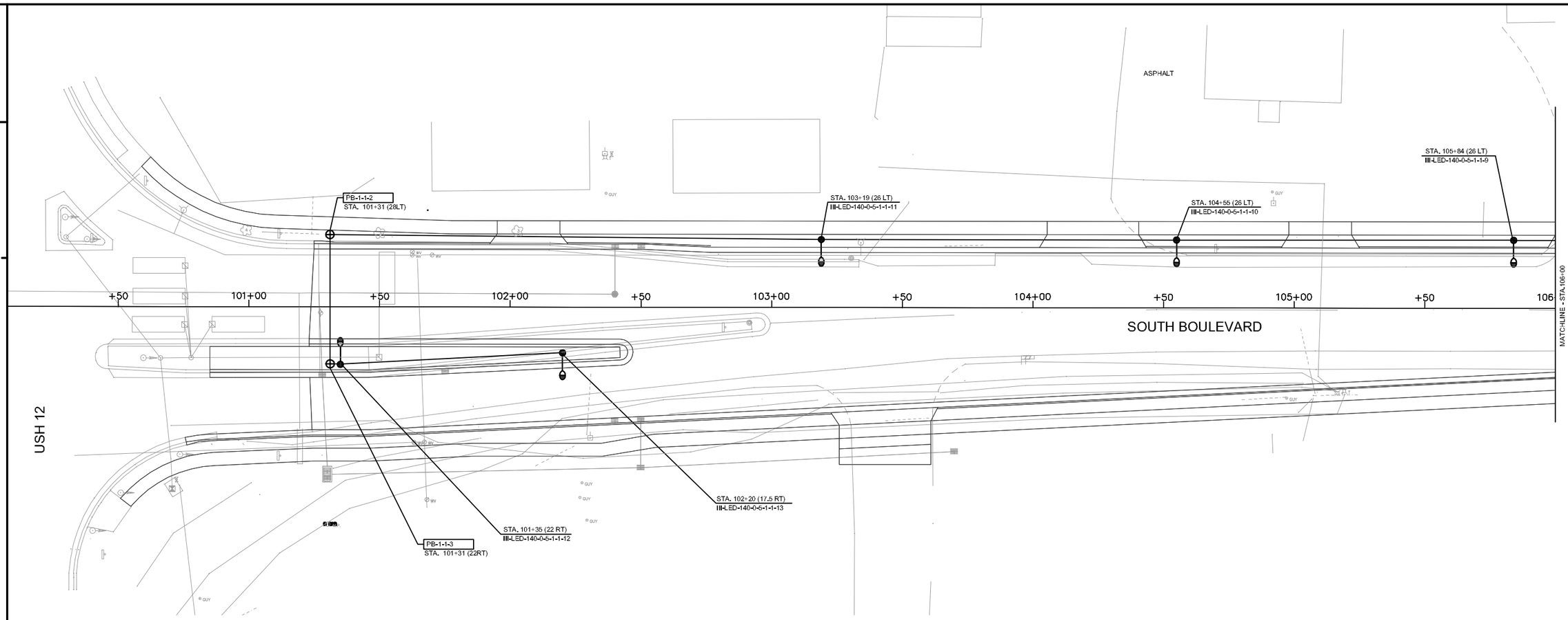
866 864 862 860 858 856 854 852 850 848



866 864 862 860 858 856 854 852 850 848

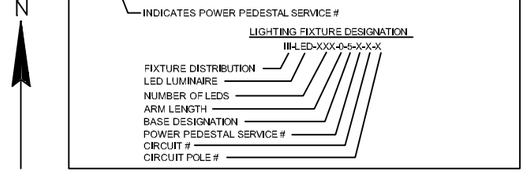
PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STORM SEWER/EROSION CONTROL	SHEET 42	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\022510_ss.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.
WISDOT/CADDS SHEET 41



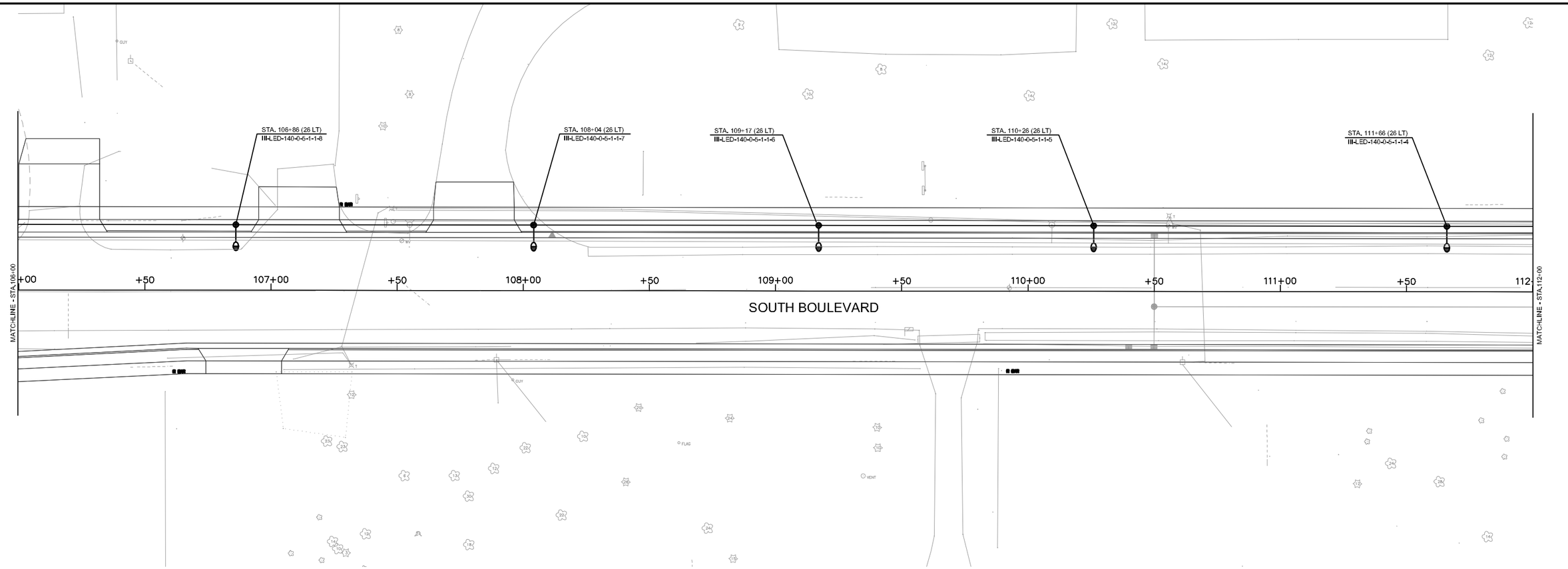
GENERAL NOTES:

1. FOR ALL POLES PROVIDE A MINIMUM OF 24" BETWEEN THE FRONT OF THE POLE BASE AND THE FACE OF THE CURB.
2. SEE LIGHT POLE DETAIL FOR POLE INSTALLATION.



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	LIGHTING PLAN	SCALE, FEET 0' 10' 20' 40'	SHEET: 43

FILE NAME : City of Baraboo South Boulevard Lighting | PLOT DATE : 3/22/2011 | PLOT BY : KyleE | PLOT NAME : | PLOT SCALE :



GENERAL NOTES:

1. FOR ALL POLES PROVIDE A MINIMUM OF 24" BETWEEN THE FRONT OF THE POLE BASE AND THE FACE OF THE CURB.
2. SEE LIGHT POLE DETAIL FOR POLE INSTALLATION.

N

LEGEND

- (X) PLAN NOTE
- SERVICE POLE
- CONTROL CABINET 100 AMP 120/240 VOLT ELECTRIC SERVICE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LUMINAIRE
- PULL BOX, 24" X 42"
- NTS NOT TO SCALE
- PB-X-X-X ITEM DESIGNATOR, REFER TO ONE-LINE DIAGRAM
  - PB = PULL BOX
  - INDICATES PULLBOX #
  - INDICATES CIRCUIT #
  - INDICATES POWER PEDESTAL SERVICE #

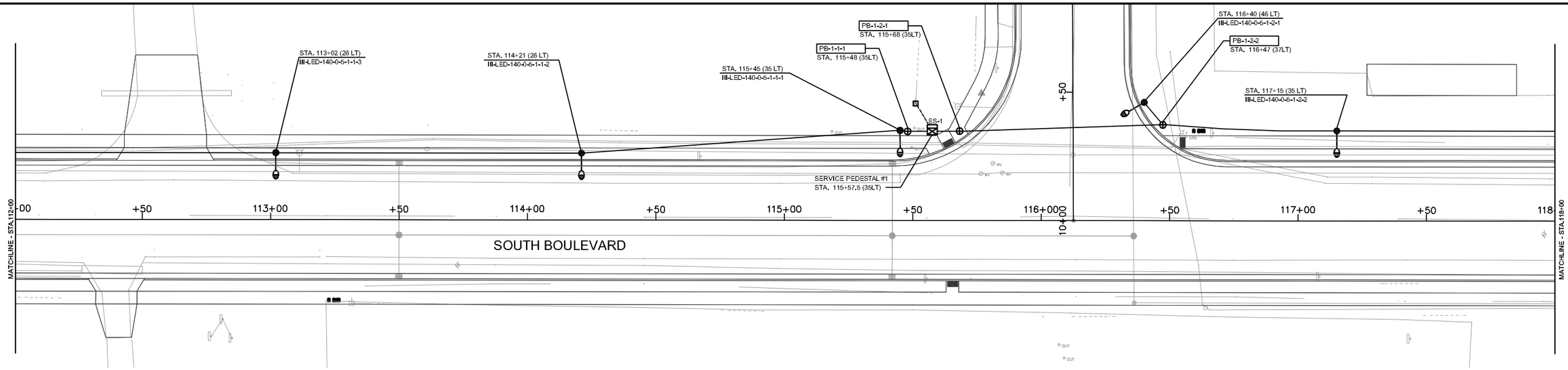
LIGHTING FIXTURE DESIGNATION

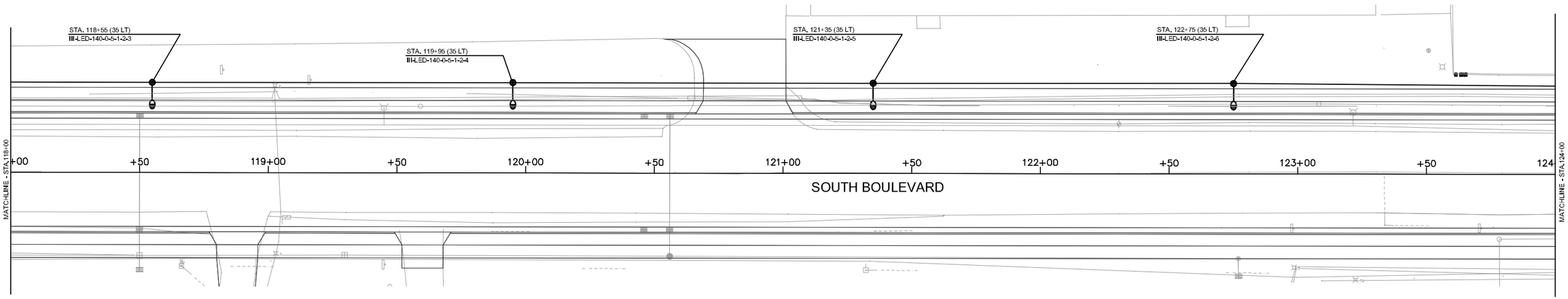
III-LED-XXX-0-5-X-X-X

- FIXTURE DISTRIBUTION
- LED LUMINAIRE
- NUMBER OF LEDS
- ARM LENGTH
- BASE DESIGNATION
- POWER PEDESTAL SERVICE #
- CIRCUIT #
- CIRCUIT POLE #

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	LIGHTING PLAN	SCALE, FEET 0' 10' 20' 40'	SHEET: 44

FILE NAME : City of Baraboo South Boulevard Lighting | PLOT DATE : 3/22/2011 | PLOT BY : KyleE | PLOT NAME : | PLOT SCALE :





GENERAL NOTES:

1. FOR ALL POLES PROVIDE A MINIMUM OF 24" BETWEEN THE FRONT OF THE POLE BASE AND THE FACE OF THE CURB.
2. SEE LIGHT POLE DETAIL FOR POLE INSTALLATION.

N

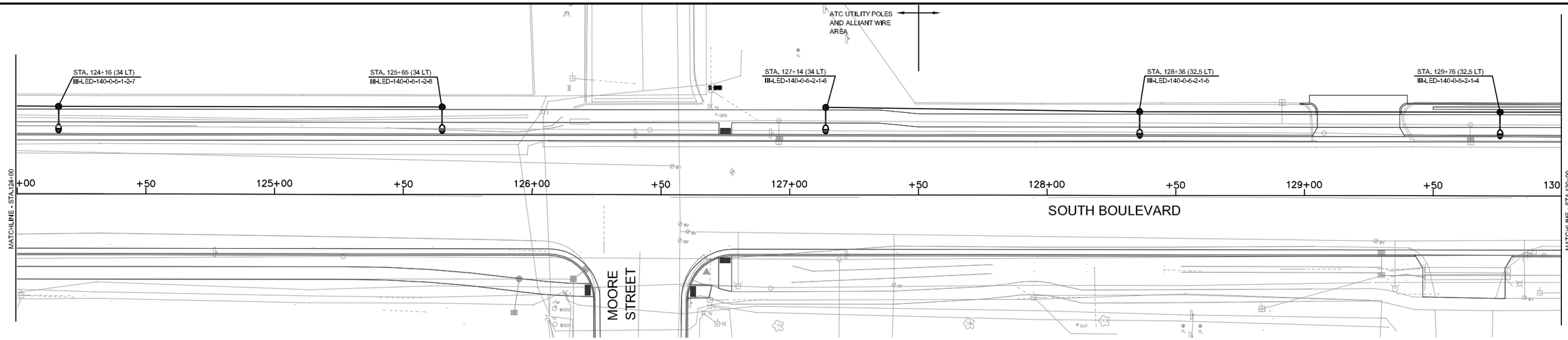
LEGEND

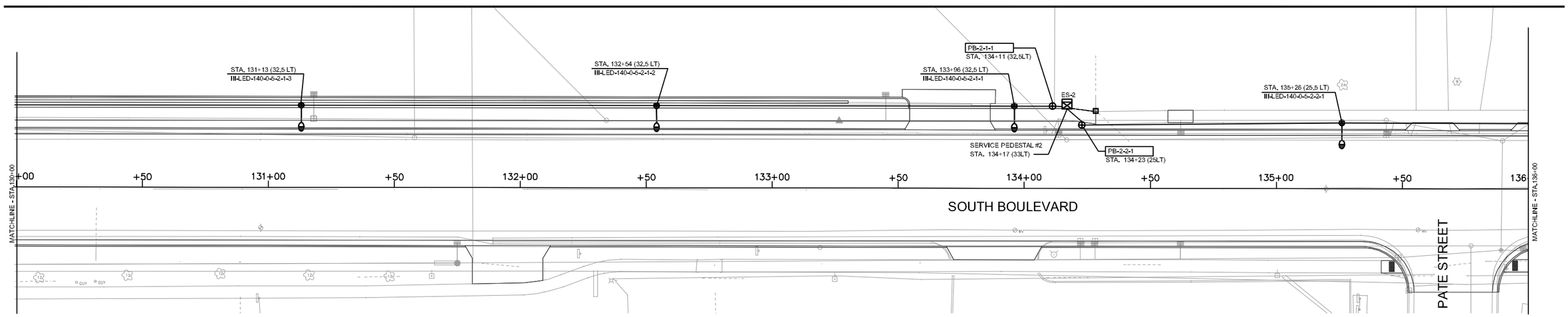
- (X) PLAN NOTE
- SERVICE POLE
- CONTROL CABINET 100 AMP 120/240 VOLT ELECTRIC SERVICE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LUMINAIRE
- PULL BOX, 24" X 42"
- NTS NOT TO SCALE
- PB-X-X-X ITEM DESIGNATOR, REFER TO ONE-LINE DIAGRAM
  PB = PULL BOX
  - INDICATES PULLBOX #
  - INDICATES CIRCUIT #
  - INDICATES POWER PEDESTAL SERVICE #

LIGHTING FIXTURE DESIGNATION
III-LED-XXX-0-5-X-X-X
- FIXTURE DISTRIBUTION
- LED LUMINAIRE
- NUMBER OF LEDS
- ARM LENGTH
- BASE DESIGNATION
- POWER PEDESTAL SERVICE #
- CIRCUIT #
- CIRCUIT POLE #

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	LIGHTING PLAN	SCALE, FEET 0' 10' 20' 40'	SHEET: 45

FILE NAME : City of Baraboo South Boulevard Lighting | PLOT DATE : 3/22/2011 | PLOT BY : KyleE | PLOT NAME : | PLOT SCALE :





GENERAL NOTES:

1. FOR ALL POLES PROVIDE A MINIMUM OF 24" BETWEEN THE FRONT OF THE POLE BASE AND THE FACE OF THE CURB.
2. SEE LIGHT POLE DETAIL FOR POLE INSTALLATION.

N

LEGEND

- (X) PLAN NOTE
- SP SERVICE POLE
- CONTROL CABINET 100 AMP 120/240 VOLT ELECTRIC SERVICE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LUMINAIRE
- PULL BOX, 24" X 42"
- NTS NOT TO SCALE
- PB-X-X-X ITEM DESIGNATOR, REFER TO ONE-LINE DIAGRAM
  - PB = PULL BOX
  - INDICATES PULLBOX #
  - INDICATES CIRCUIT #
  - INDICATES POWER PEDESTAL SERVICE #

LIGHTING FIXTURE DESIGNATION

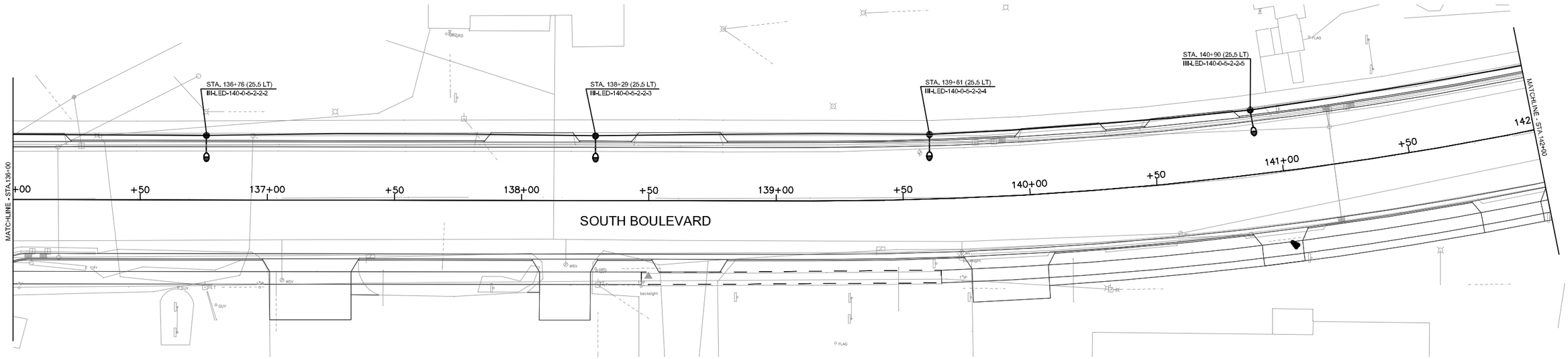
III-LED-XXX-0-5-X-X-X

- FIXTURE DISTRIBUTION
- LED LUMINAIRE
- NUMBER OF LEDS
- ARM LENGTH
- BASE DESIGNATION
- POWER PEDESTAL SERVICE #
- CIRCUIT #
- CIRCUIT POLE #

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	LIGHTING PLAN	SCALE, FEET 0' 10' 20' 40'	SHEET: 46

FILE NAME : City of Baraboo South Boulevard Lighting | PLOT DATE : 3/22/2011 | PLOT BY : KyleE | PLOT NAME : | PLOT SCALE :

WISDOT/CADDS SHEET 42



GENERAL NOTES:

1. FOR ALL POLES PROVIDE A MINIMUM OF 24" BETWEEN THE FRONT OF THE POLE BASE AND THE FACE OF THE CURB.
2. SEE LIGHT POLE DETAIL FOR POLE INSTALLATION.

N

LEGEND

- (X) PLAN NOTE
- SERVICE POLE
- CONTROL CABINET 100 AMP 120/240 VOLT ELECTRIC SERVICE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LUMINAIRE
- PULL BOX, 24" X 42"
- NTS NOT TO SCALE
- PB-X-X-X ITEM DESIGNATOR, REFER TO ONE-LINE DIAGRAM
  - PB = PULL BOX
  - INDICATES PULLBOX #
  - INDICATES CIRCUIT #
  - INDICATES POWER PEDESTAL SERVICE #

LIGHTING FIXTURE DESIGNATION

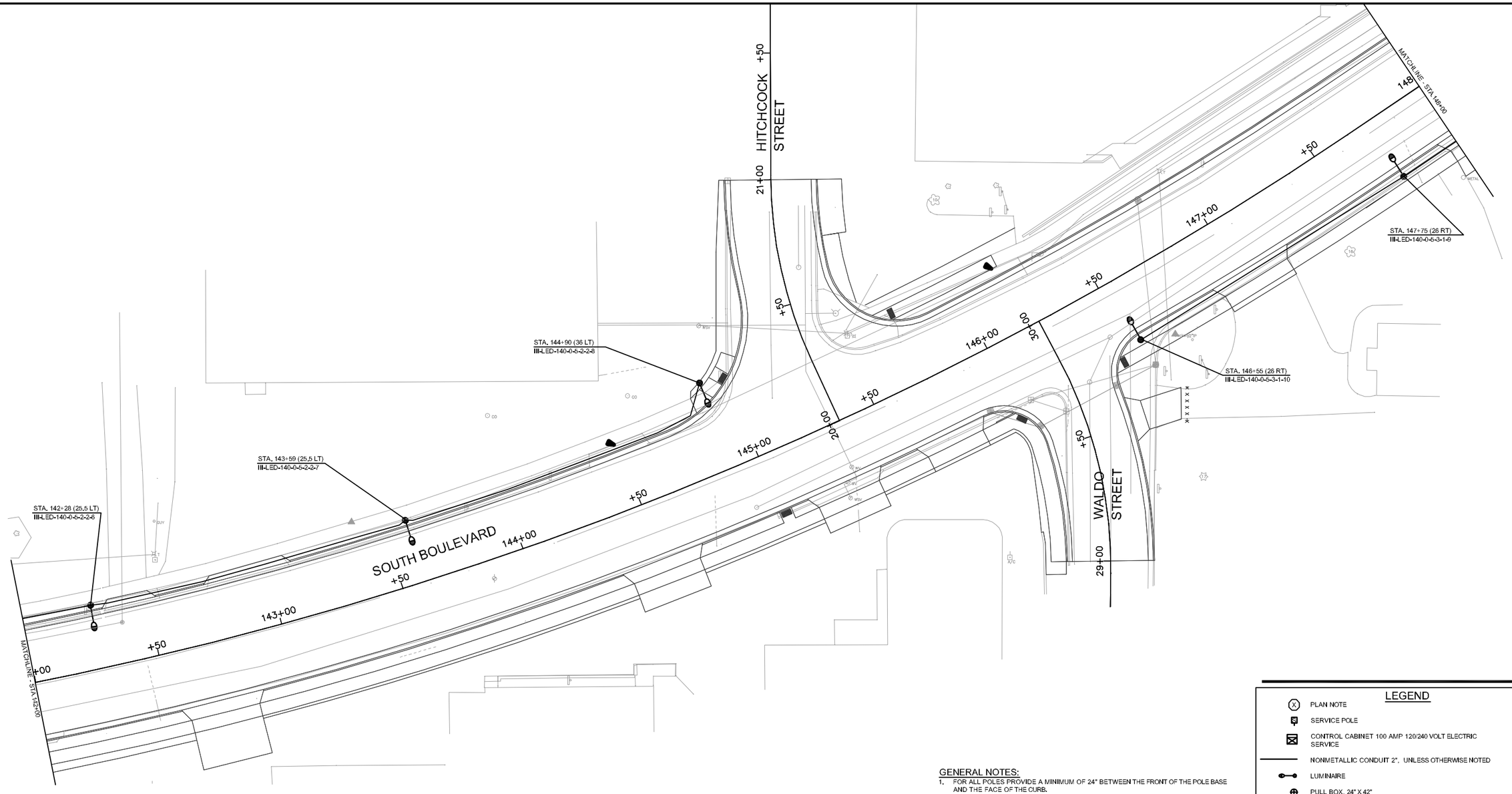
III-LED-XXX-0-5-X-X-X

- FIXTURE DISTRIBUTION
- LED LUMINAIRE
- NUMBER OF LEDS
- ARM LENGTH
- BASE DESIGNATION
- POWER PEDESTAL SERVICE #
- CIRCUIT #
- CIRCUIT POLE #

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	LIGHTING PLAN	SCALE, FEET 0' 10' 20' 40'	SHEET:

FILE NAME : City of Baraboo South Boulevard Lighting | PLOT DATE : 3/22/2011 | PLOT BY : KyleE | PLOT NAME : | PLOT SCALE :

2



GENERAL NOTES:

1. FOR ALL POLES PROVIDE A MINIMUM OF 24" BETWEEN THE FRONT OF THE POLE BASE AND THE FACE OF THE CURB.
2. SEE LIGHT POLE DETAIL FOR POLE INSTALLATION.

N

LEGEND

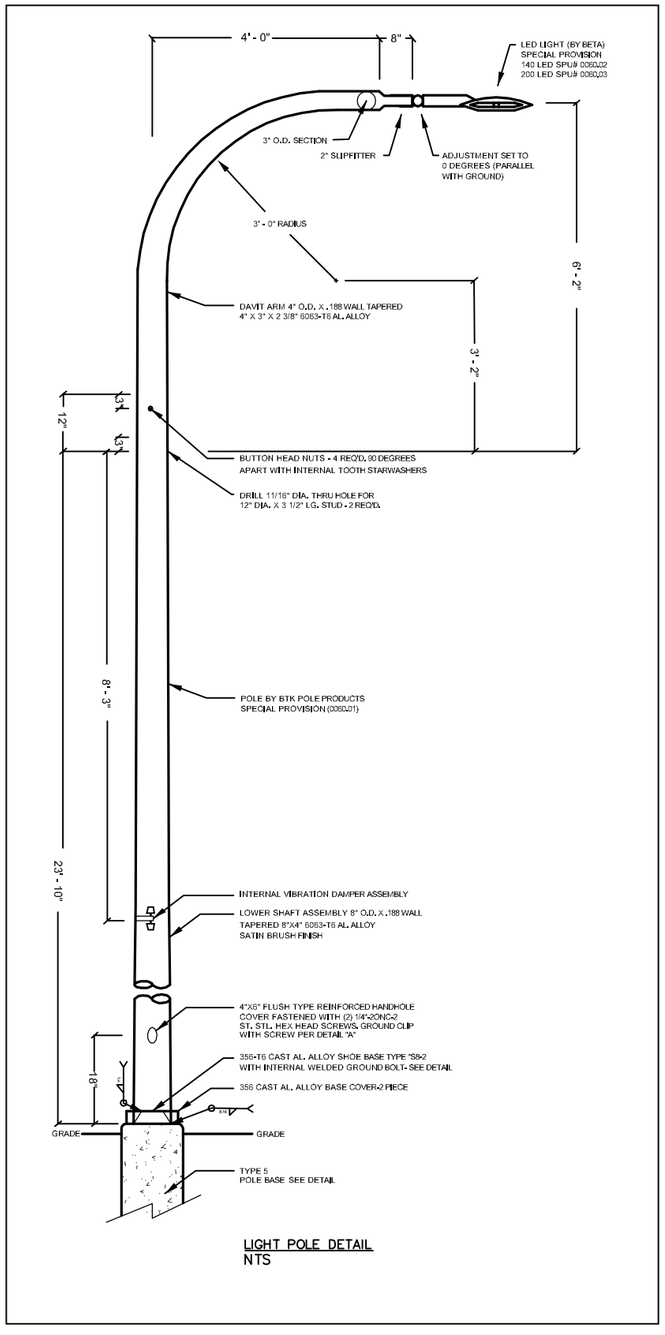
- (X) PLAN NOTE
- SERVICE POLE
- CONTROL CABINET 100 AMP 120/240 VOLT ELECTRIC SERVICE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LUMINAIRE
- PULL BOX, 24" X 42"
- NTS NOT TO SCALE
- PB-X-X-X ITEM DESIGNATOR, REFER TO ONE-LINE DIAGRAM
  - PB = PULL BOX
  - INDICATES PULLBOX #
  - INDICATES CIRCUIT #
  - INDICATES POWER PEDESTAL SERVICE #

LIGHTING FIXTURE DESIGNATION

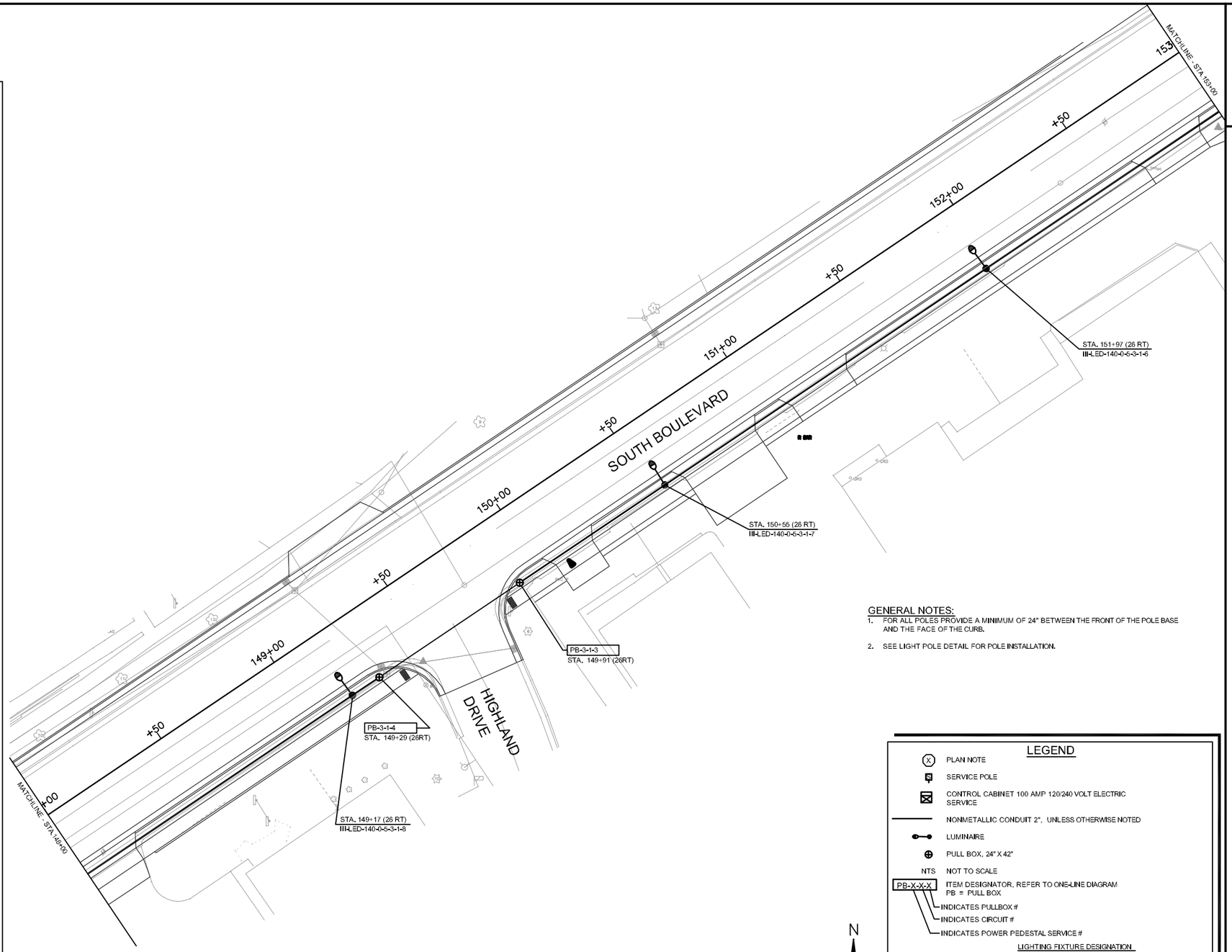
III-LED-XXX-0-5-X-X-X

- FIXTURE DISTRIBUTION
- LED LUMINAIRE
- NUMBER OF LEDS
- ARM LENGTH
- BASE DESIGNATION
- POWER PEDESTAL SERVICE #
- CIRCUIT #
- CIRCUIT POLE #

PROJECT NO: 5988–00–70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	LIGHTING PLAN	SCALE, FEET 0' 10' 20' 40'	SHEET: 48



LIGHT POLE DETAIL
NTS



GENERAL NOTES:

1. FOR ALL POLES PROVIDE A MINIMUM OF 24" BETWEEN THE FRONT OF THE POLE BASE AND THE FACE OF THE CURB.
2. SEE LIGHT POLE DETAIL FOR POLE INSTALLATION.

LEGEND

- (X) PLAN NOTE
- SP SERVICE POLE
- CONTROL CABINET 100 AMP 120/240 VOLT ELECTRIC SERVICE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LUMINAIRE
- PULL BOX, 24" X 42"
- NTS NOT TO SCALE
- PB-X-X-X ITEM DESIGNATOR, REFER TO ONE-LINE DIAGRAM
  - PB = PULL BOX
  - INDICATES PULLBOX #
  - INDICATES CIRCUIT #
  - INDICATES POWER PEDESTAL SERVICE #

LIGHTING FIXTURE DESIGNATION
III-LED-XXX-0-5-X-X-X

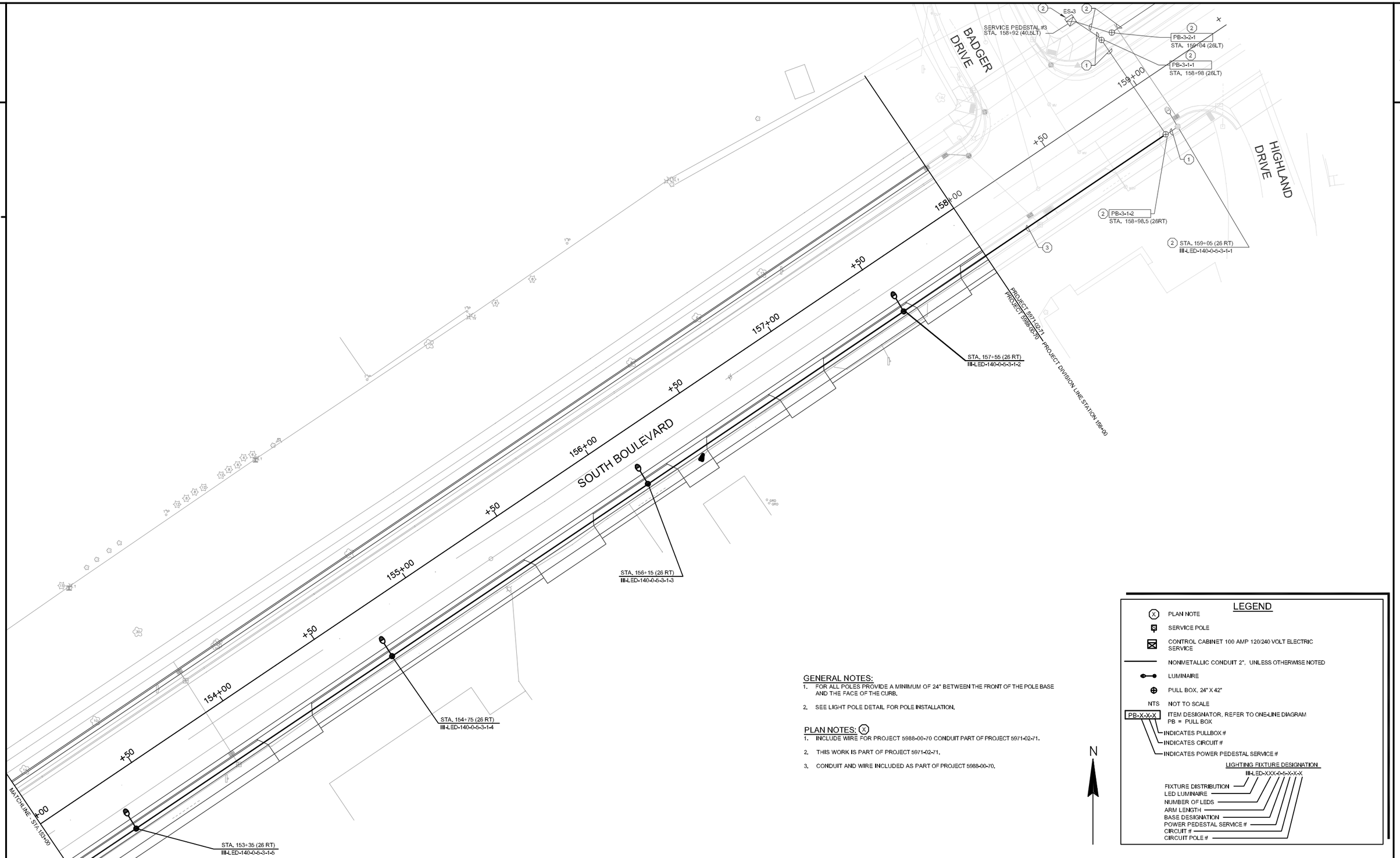
- FIXTURE DISTRIBUTION
- LED LUMINAIRE
- NUMBER OF LEDS
- ARM LENGTH
- BASE DESIGNATION
- POWER PEDESTAL SERVICE #
- CIRCUIT #
- CIRCUIT POLE #

N

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	LIGHTING PLAN	SCALE, FEET 0' 10' 20' 40'	SHEET: 49

FILE NAME : City of Baraboo South Boulevard Lighting | PLOT DATE : 3/22/2011 | PLOT BY : KyleE | PLOT NAME : | PLOT SCALE :

2



GENERAL NOTES:

1. FOR ALL POLES PROVIDE A MINIMUM OF 24" BETWEEN THE FRONT OF THE POLE BASE AND THE FACE OF THE CURB.
2. SEE LIGHT POLE DETAIL FOR POLE INSTALLATION.

PLAN NOTES: (X)

1. INCLUDE WIRE FOR PROJECT 5988-00-70 CONDUIT PART OF PROJECT 5971-02-71.
2. THIS WORK IS PART OF PROJECT 5971-02-71.
3. CONDUIT AND WIRE INCLUDED AS PART OF PROJECT 5988-00-70.

N

LEGEND

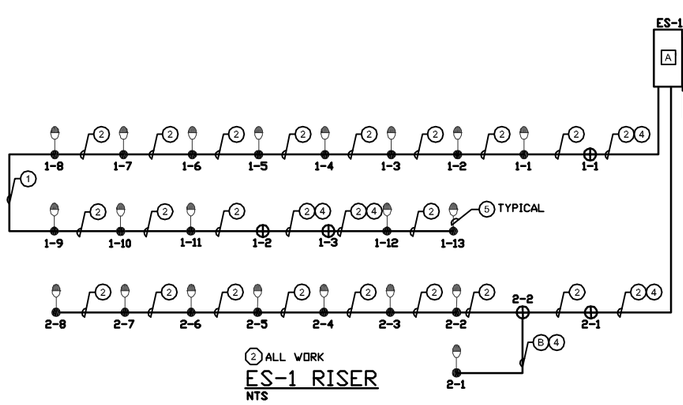
- (X) PLAN NOTE
- SERVICE POLE
- CONTROL CABINET 100 AMP 120/240 VOLT ELECTRIC SERVICE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LUMINAIRE
- PULL BOX, 24" X 42"
- NTS NOT TO SCALE
- PB-X-X-X ITEM DESIGNATOR, REFER TO ONE-LINE DIAGRAM
  - PB = PULL BOX
  - INDICATES PULLBOX #
  - INDICATES CIRCUIT #
  - INDICATES POWER PEDESTAL SERVICE #

LIGHTING FIXTURE DESIGNATION

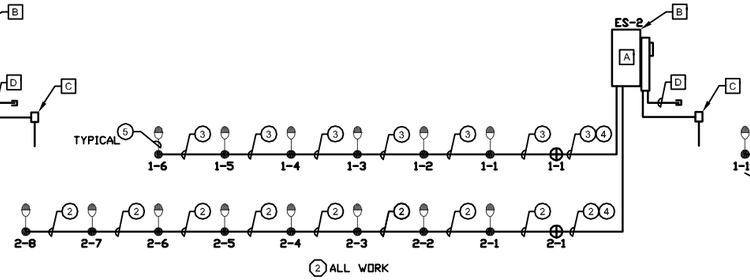
III-LED-XXX-0-5-X-X-X

- FIXTURE DISTRIBUTION
- LED LUMINAIRE
- NUMBER OF LEDS
- ARM LENGTH
- BASE DESIGNATION
- POWER PEDESTAL SERVICE #
- CIRCUIT #
- CIRCUIT POLE #

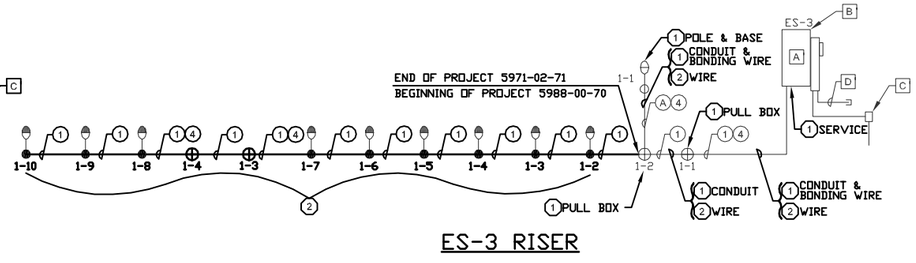
PROJECT NO: 5988–00–70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	LIGHTING PLAN	SCALE, FEET 0' 10' 20' 40'	SHEET: 50



ES-1 RISER
NTS



ES-2 RISER
NTS



ES-3 RISER

CONDUIT AND WIRING LEGEND

- (A) 4#6, 2#6 GND IN 2"C
- (B) 4#8, 2#8 GND IN 2"C
- (1) 2#6, #6 GND IN 2"C
- (2) 2#8, #8 GND IN 2"C
- (3) 2#10, #10 GND IN 2"C
- (4) #10 PULL BOX BONDING CONDUCTOR
- (5) 2#12 AND #12G (FROM EACH FIXTURE HEAD TO POLE BASE)

SYMBOLS LEGEND

- [A] METER BREAKER PEDESTAL ELECTRIC SERVICE. 200A-120/240V SINGLE PHASE THREE WIRE.
- [B] LIGHTING CONTROL CABINET.
- [C] GROUNDING ELECTRODES.
- [D] POWER FROM UTILITY.
- X-Y SINGLE MAST ARM LIGHT POLE, X = CIRCUIT NUMBER, Y = CIRCUIT POLE NUMBER.
- ⊕ X-Y 24" X 42" PULL BOX, X = CIRCUIT NUMBER, Y = BULL BOX NUMBER.

ONE LINE NOTES

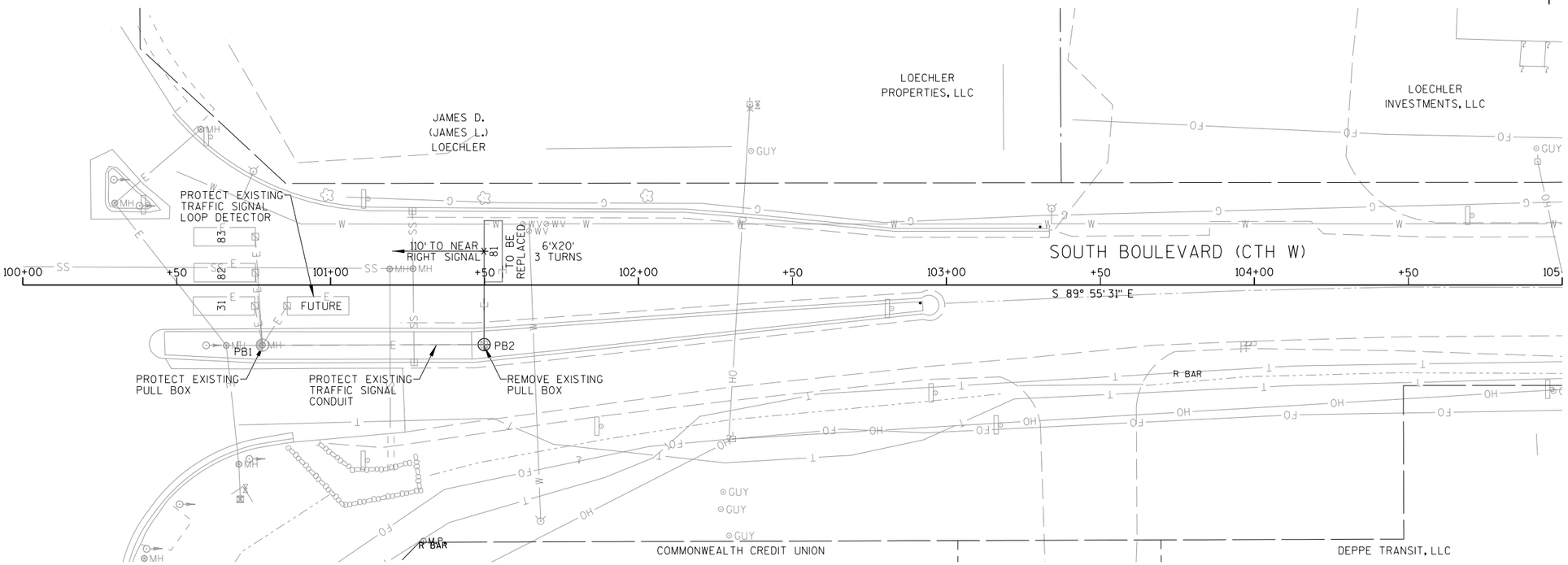
1. (1) WORK PART OF PROJECT 5971-02-71.
2. (2) WORK PART OF PROJECT 5988-00-70.

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	LIGHTING PLAN	SCALE, FEET 0' 10' 20' 40'	SHEET:

FILE NAME : City of Baraboo South Boulevard Lighting | PLOT DATE : 3/22/2011 | PLOT BY : KyleE | PLOT NAME : | PLOT SCALE :

WISDOT/CADDS SHEET 42

2



CONSTRUCTION NOTES

1. * LOCATION IS TO FRONT CENTER OF DETECTION LOOP.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. LOOP DETECTOR LEAD-IN CABLE FOR LOOP 81 SHALL BE DISCONNECTED FROM TRAFFIC SIGNAL CONTROL CABINET AND COILED IN THE NEAREST PULLBOX PRIOR TO REMOVING LOOP DETECTOR.
4. LOOP DETECTOR LEAD-IN CABLE FOR LOOP 81 SHALL BE PULLED TO AND COILED IN PB1 UNTIL NEW LOOP DETECTOR WIRE IS READY TO BE CONNECTED.

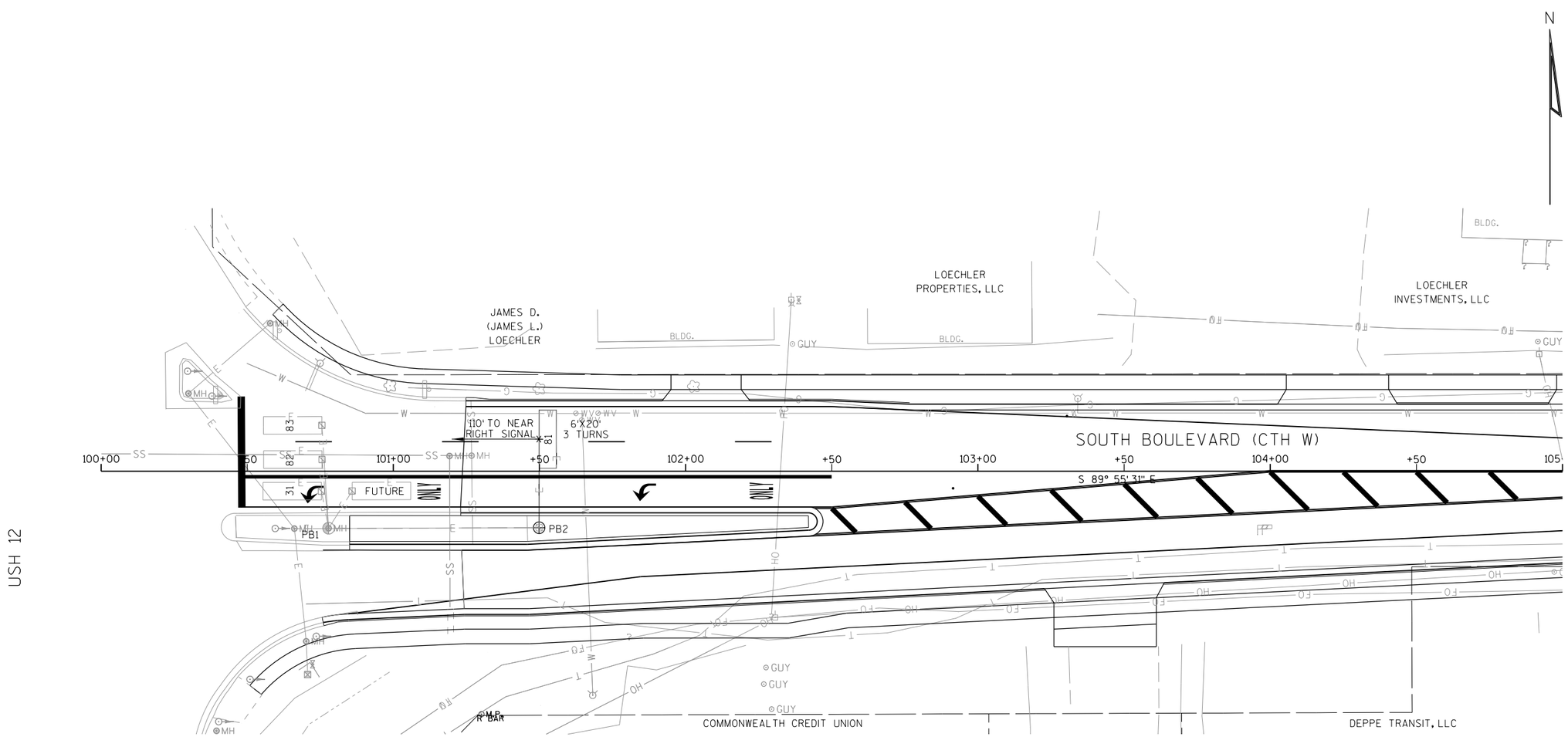
LEGEND

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 12" X 24"
- PULL BOX, 24" X 36"

NOTE: GRAYSHADE REPRESENTS EXISTING TO REMAIN
BOLD REPRESENTS EXISTING TO BE REMOVED

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 52	E

2



CONSTRUCTION NOTES

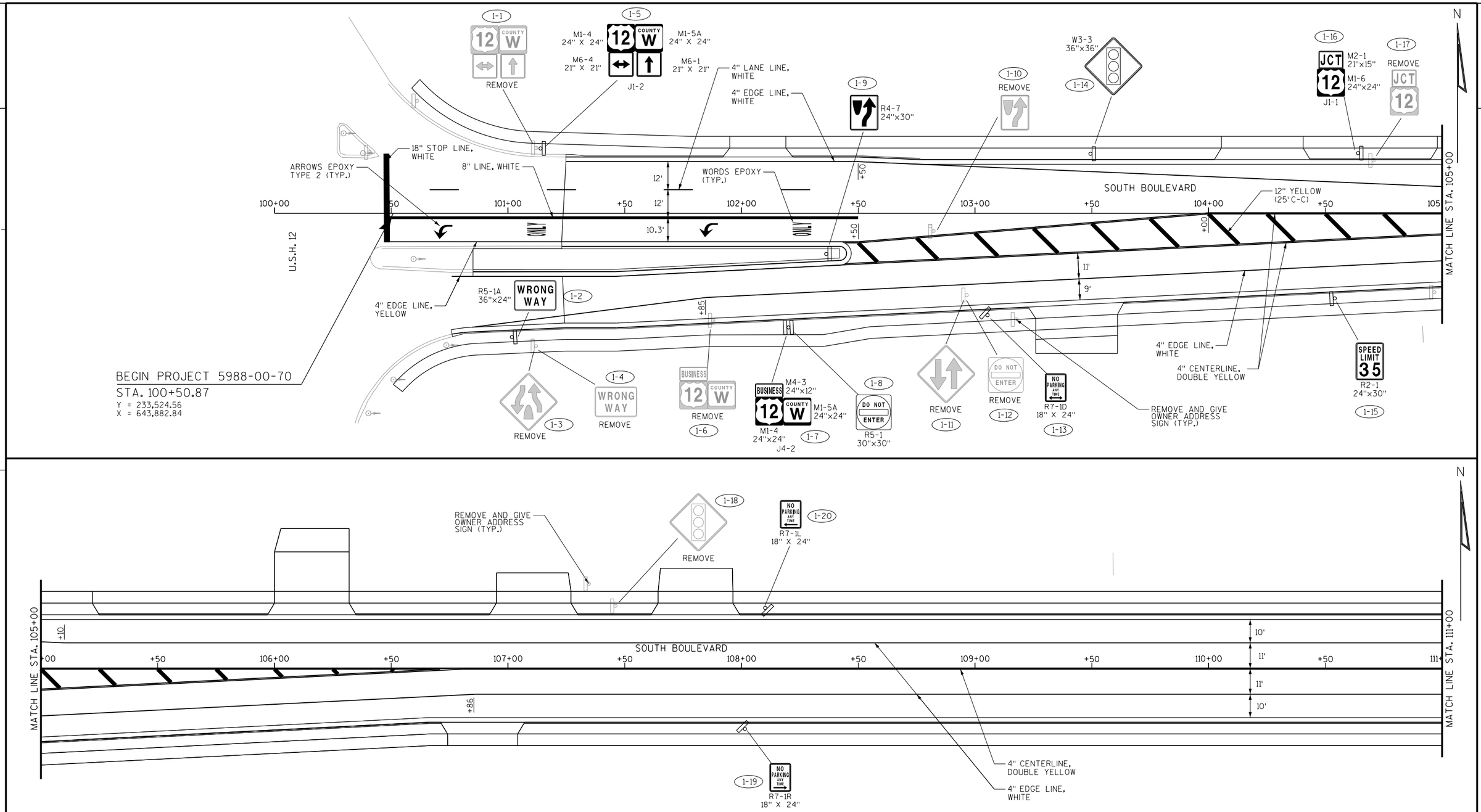
1. * LOCATION IS TO FRONT CENTER OF DETECTION LOOP.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. EXISTING LOOP DETECTOR LEAD-IN CABLE SHALL BE PULLED FROM PB1 TO PB2 AND CONNECTED TO LOOP DETECTOR WIRE FOR LOOP 81.
5. EXISTING LOOP DETECTOR LEAD-IN CABLE FOR LOOP 81 SHALL BE PULLED FROM THE PULLBOX NEAREST THE TRAFFIC SIGNAL CABINET TO THE TRAFFIC SIGNAL CABINET AND CONNECTED WHEN LOOP 81 IS READY TO BE PUT INTO SERVICE.

LEGEND

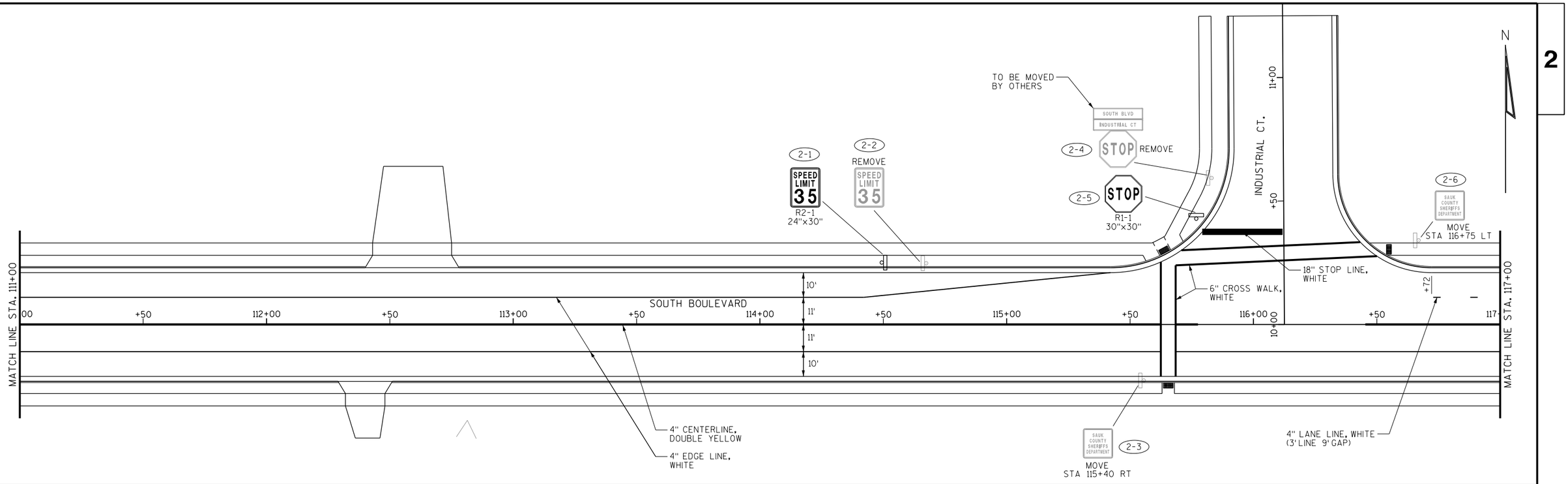
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 12" X 24"
- PULL BOX, 24" X 36"

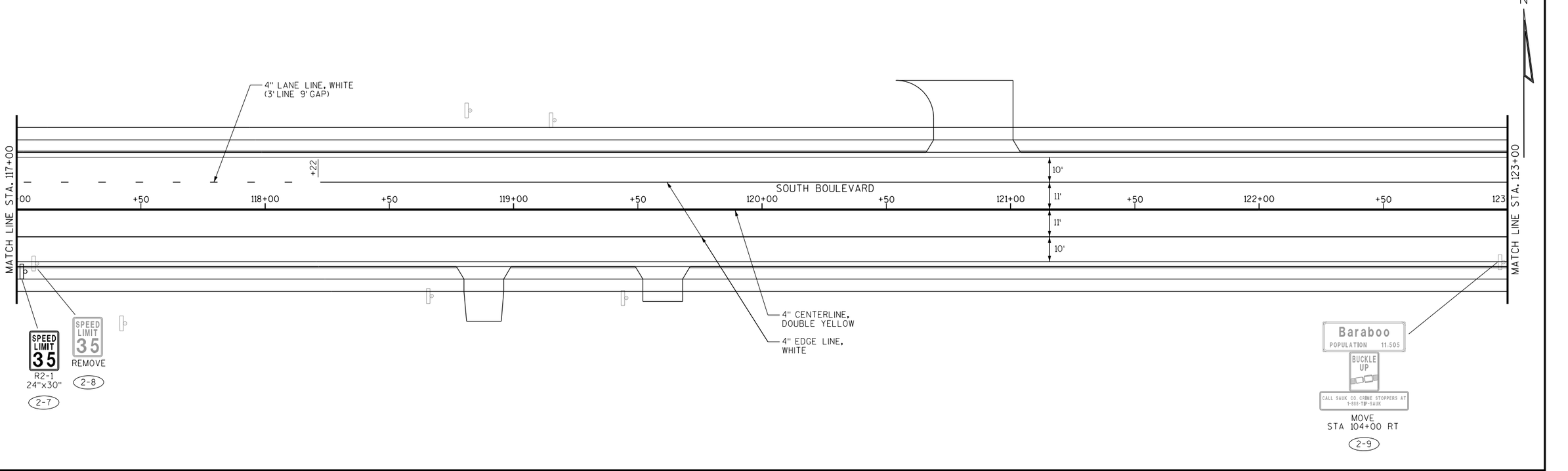
NOTE: GRAYSHADE REPRESENTS EXISTING

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	TRAFFIC SIGNAL PLAN	SHEET 53	E

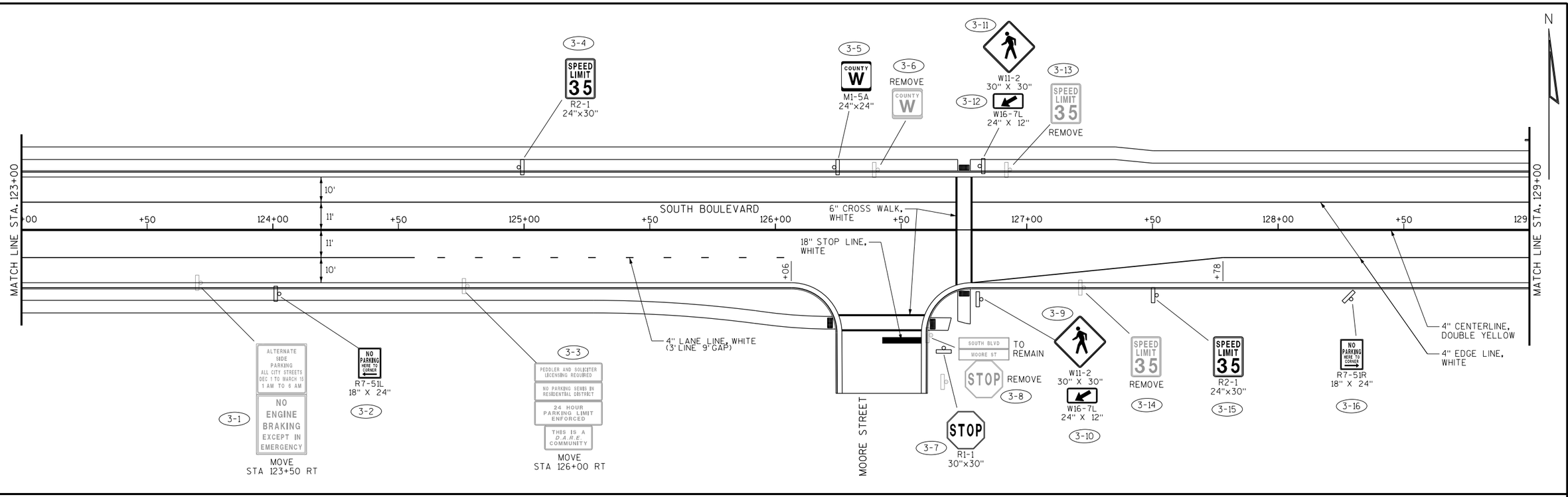


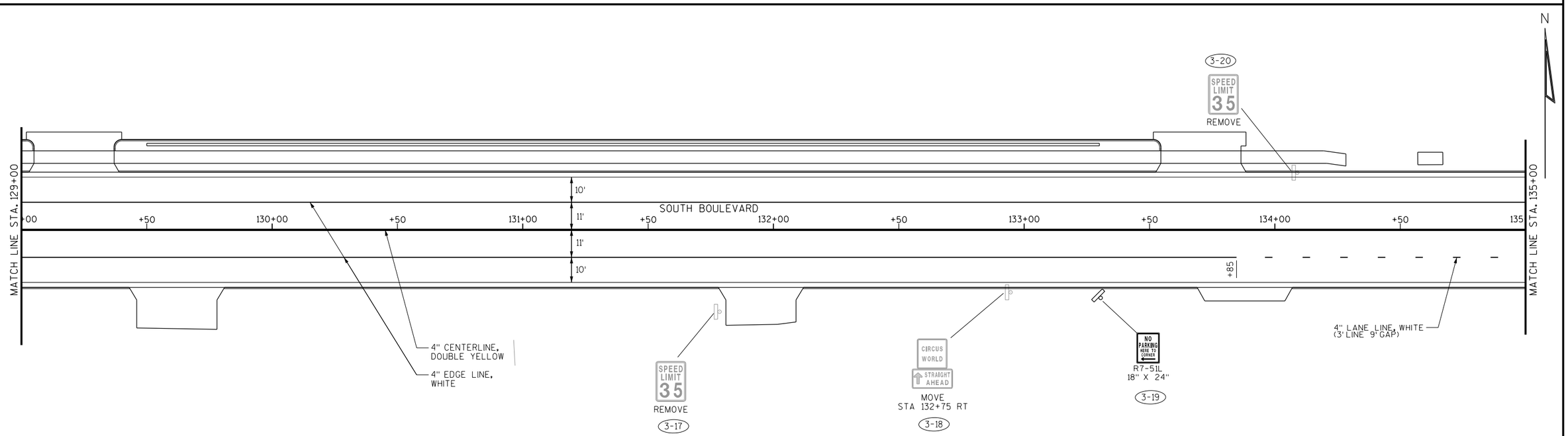
PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PAVEMENT MARKING & SIGNING	SHEET 54	E





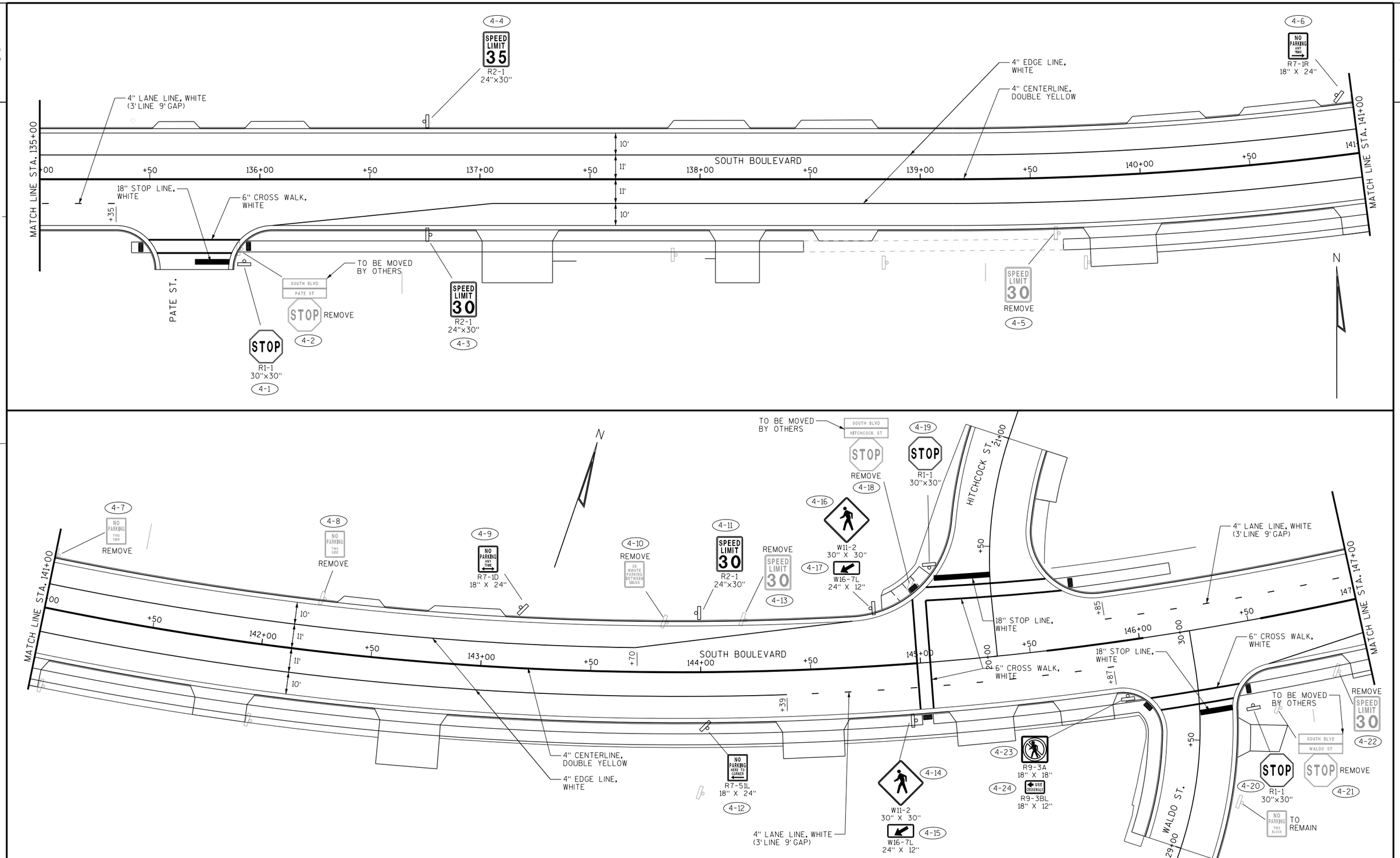
PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PAVEMENT MARKING & SIGNING	SHEET 55	E



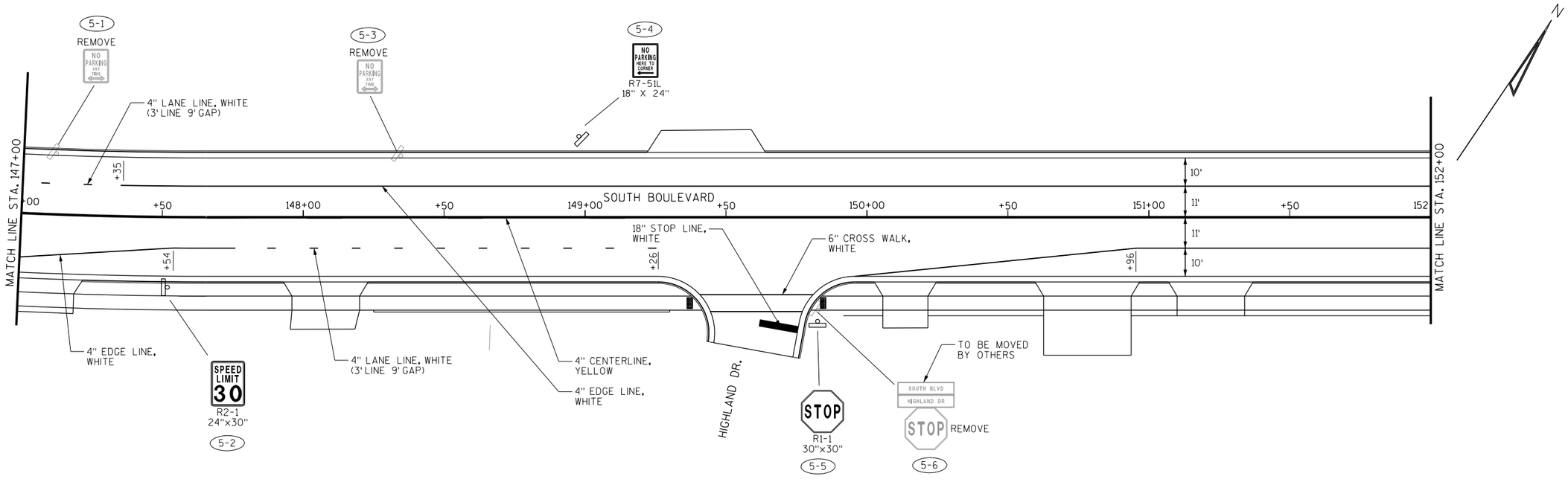


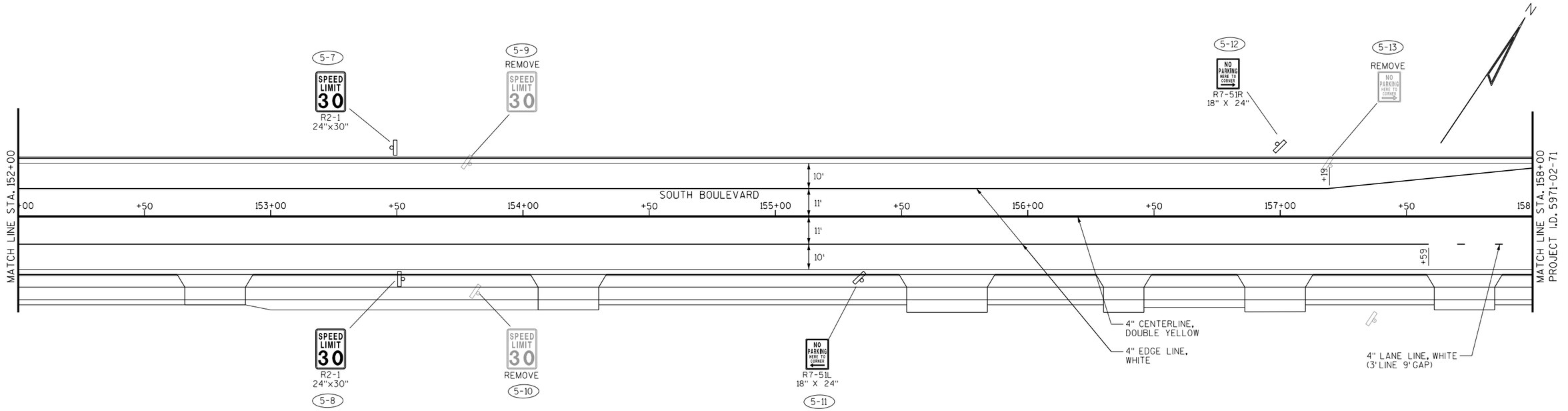
PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PAVEMENT MARKING & SIGNING	SHEET 56	E

2

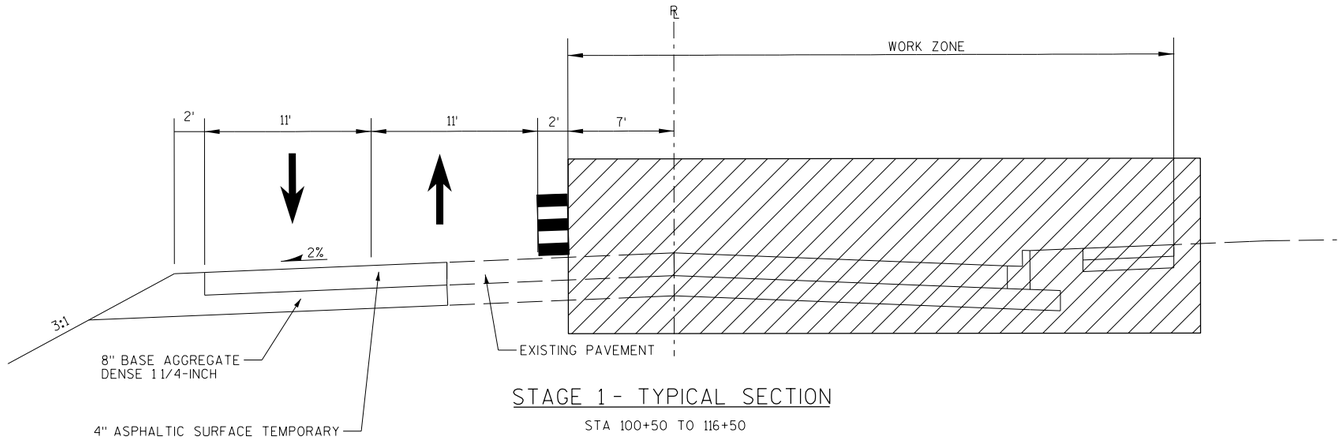


PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PAVEMENT MARKING & SIGNING	SHEET 57	E



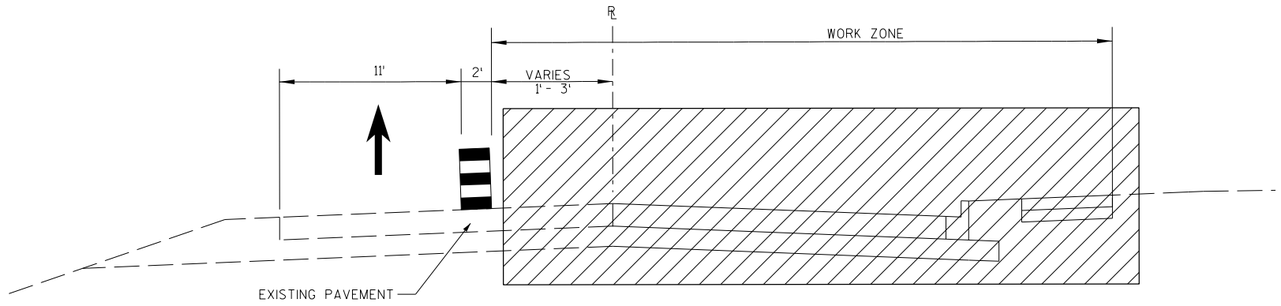


PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PAVEMENT MARKING & SIGNING	SHEET 58	E



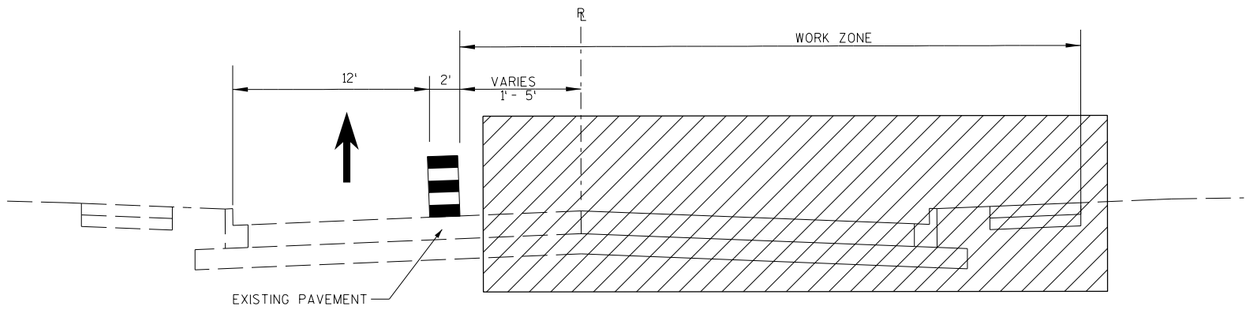
STAGE 1 - TYPICAL SECTION

STA 100+50 TO 116+50



STAGE 1 - TYPICAL SECTION

STA 116+50 TO 126+00



STAGE 1 - TYPICAL SECTION

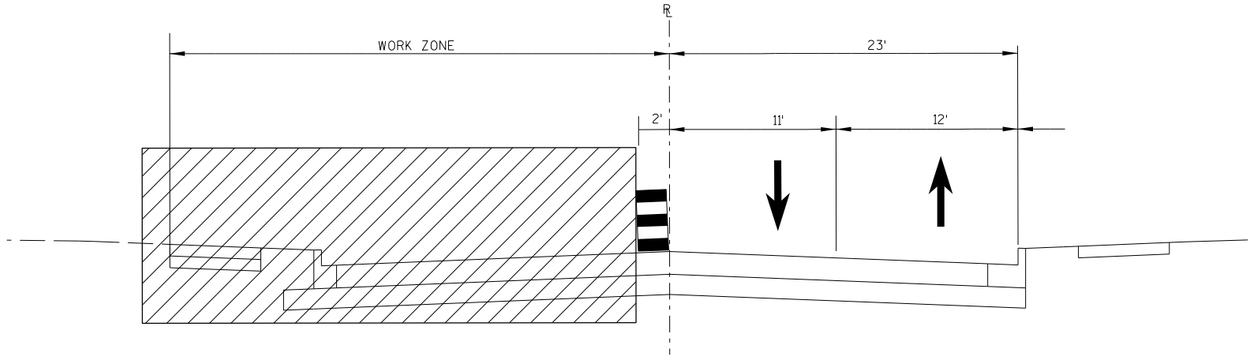
STA 126+00 TO 158+00

NOTES

1. MAINTAIN 11-FOOT MINIMUIM LANES IN EACH DIRECTION BETWEEN USH 12 AND INDUSTRIAL COURT AND ONE 11-FOOT MINIMUM EASTBOUND LANE FROM INDUSTRIAL COURT TO PARKWAY AT ALL TIMES.
2. TRAFFIC CONTROL DRUMS ARE SPACED AT 50' O.C. UNLESS OTHERWISE SPECIFIED.
3. THE CONTRACTOR SHALL COVER ANY SIGN CONFLICTING WITH THE TRAFFIC CONTROL IN OPERATION AS NEEDED OR AS DIRECTED BY THE ENGINEER, ACCORDING TO BID ITEM 643.0920.
4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY BARRICADES, SIGNS, DIRECTIONAL ARROWS, LIGHTS, TEMPORARY MARKINGS, FLAGMEN, AND SAFETY DEVICES AS CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTOR'S METHOD OR SEQUENCES OF OPERATION.
6. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
7. ALL SIGNS ARE 48" X 48" EXCEPT OTHERWISE NOTED.
8. ANY "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.
9. THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD LOCATIONS AS APPROVED BY THE ENGINEER IN THE FIELD.
10. BOTH STEADY BURN LIGHTS AND FLASHING LIGHTS SHALL BE ONE WAY WITH THE LIGHT SOURCE SHOWING TOWARDS ADJACENT APPROACHING TRAFFIC.
11. CHANNELIZING DEVICES SHALL BE DRUMS WITH ATTACHED TYPE "C" STEADY BURN LIGHT (TAPERS ONLY).
12. SEE PROJECT 5971-02-71 FOR DETOUR PLAN, LOCATIONS, AND QUANTITIES.

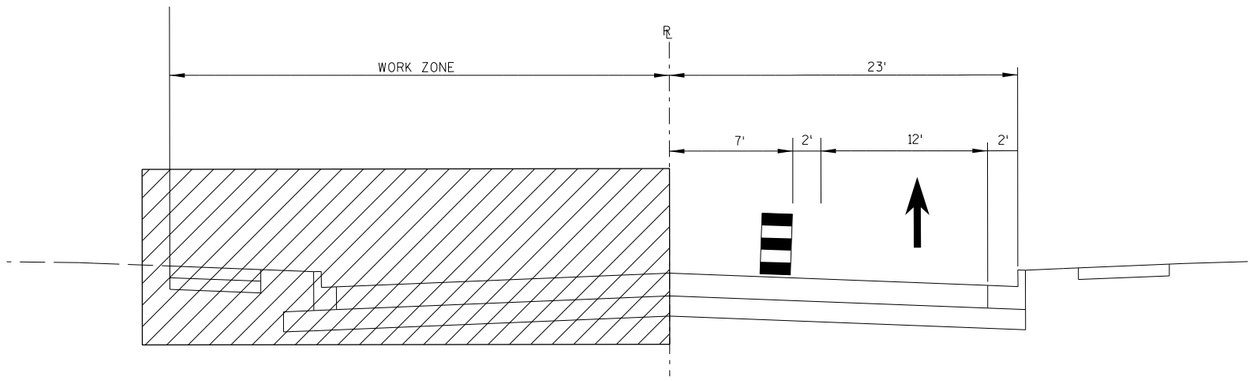
PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STAGE CONSTRUCTION - TYPICAL SECTIONS	SHEET 59	E

2



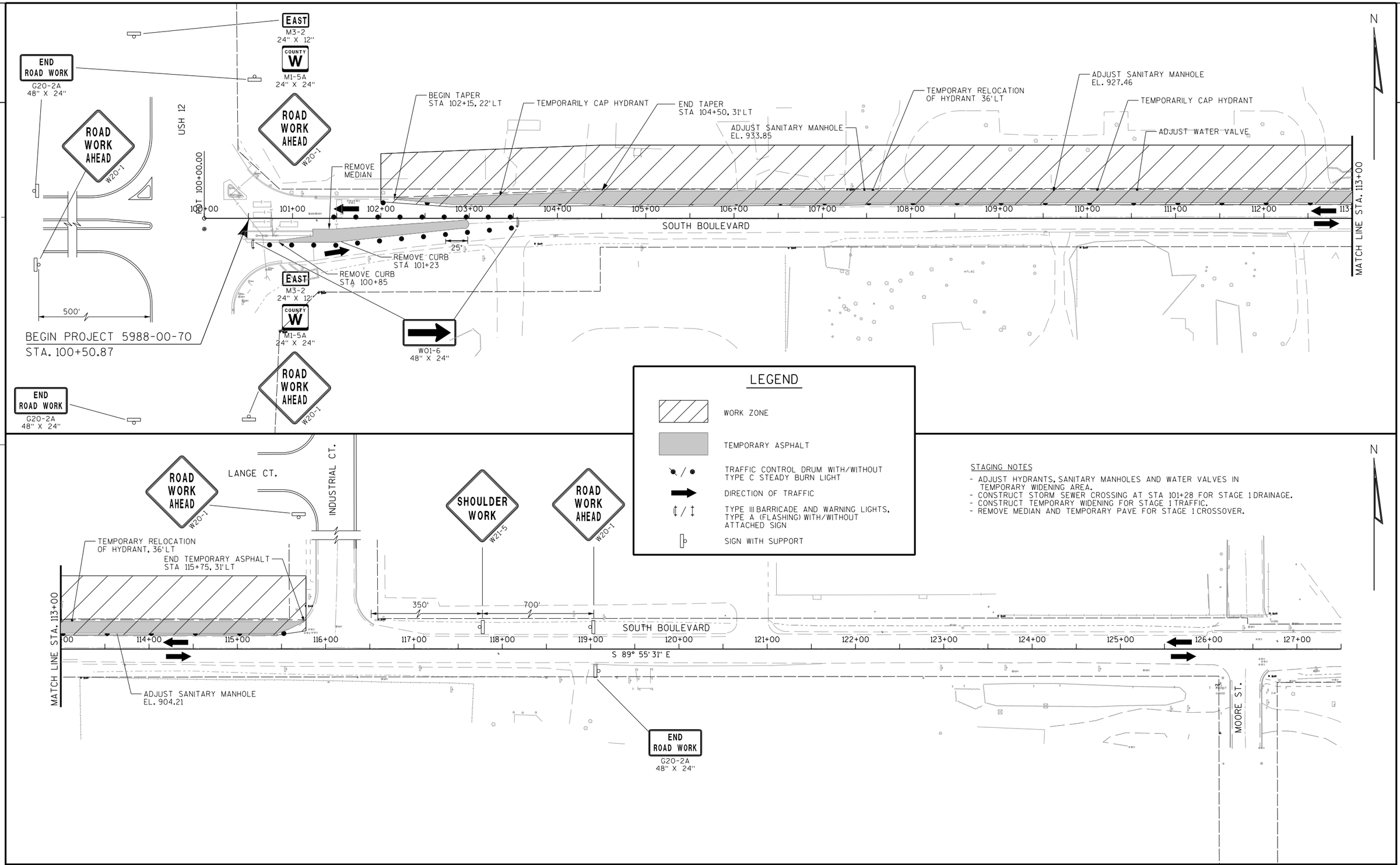
STAGE 2 - TYPICAL SECTION

STA 100+50 TO 116+50



STAGE 2 - TYPICAL SECTION

STA 116+50 TO 158+00



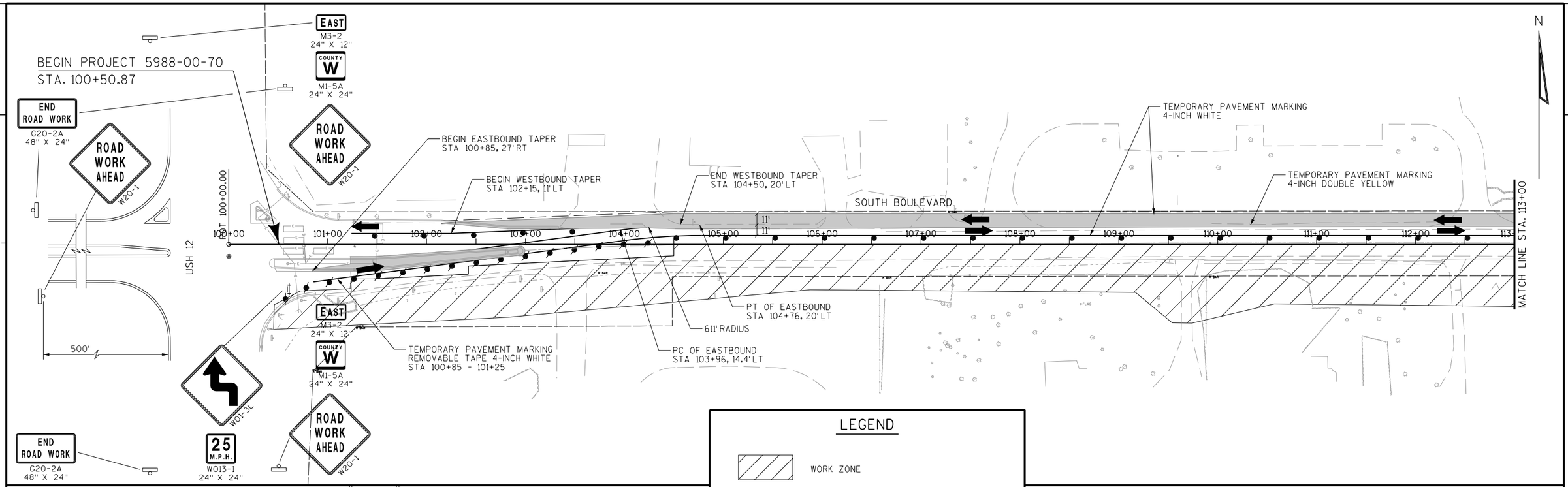
LEGEND

- WORK ZONE
- TEMPORARY ASPHALT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C STEADY BURN LIGHT
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT ATTACHED SIGN
- SIGN WITH SUPPORT

STAGING NOTES

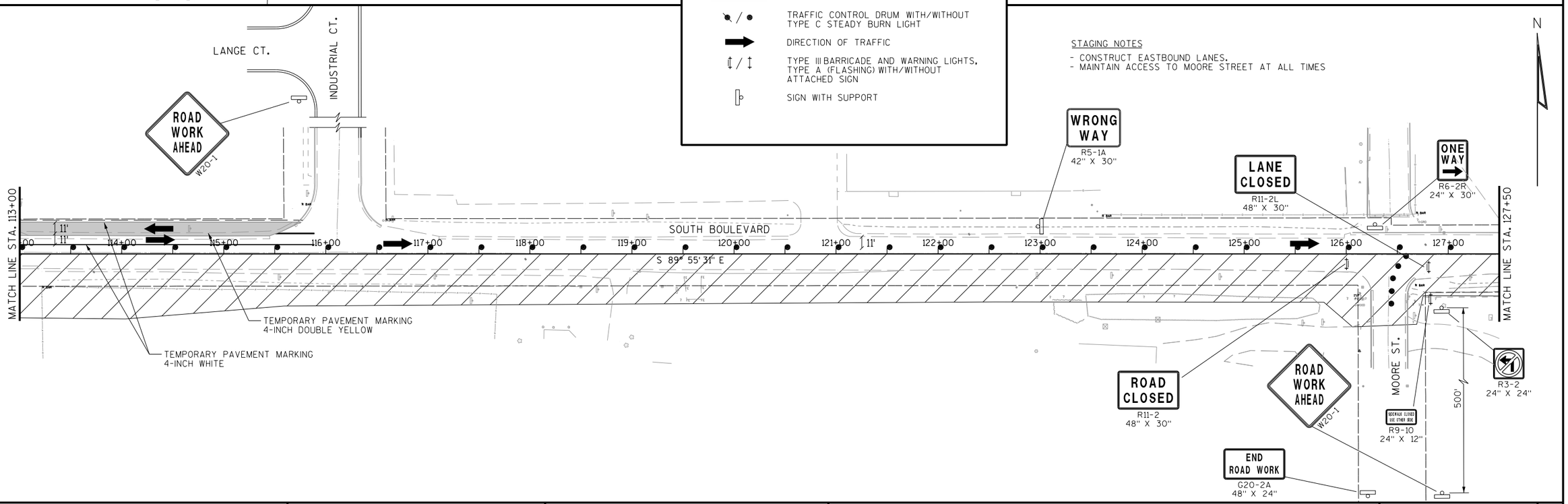
- ADJUST HYDRANTS, SANITARY MANHOLES AND WATER VALVES IN TEMPORARY WIDENING AREA.
- CONSTRUCT STORM SEWER CROSSING AT STA 101+28 FOR STAGE 1 DRAINAGE.
- CONSTRUCT TEMPORARY WIDENING FOR STAGE 1 TRAFFIC.
- REMOVE MEDIAN AND TEMPORARY PAVE FOR STAGE 1 CROSSOVER.

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STAGE CONSTRUCTION - PRE STAGE 1	SHEET 61	E



LEGEND

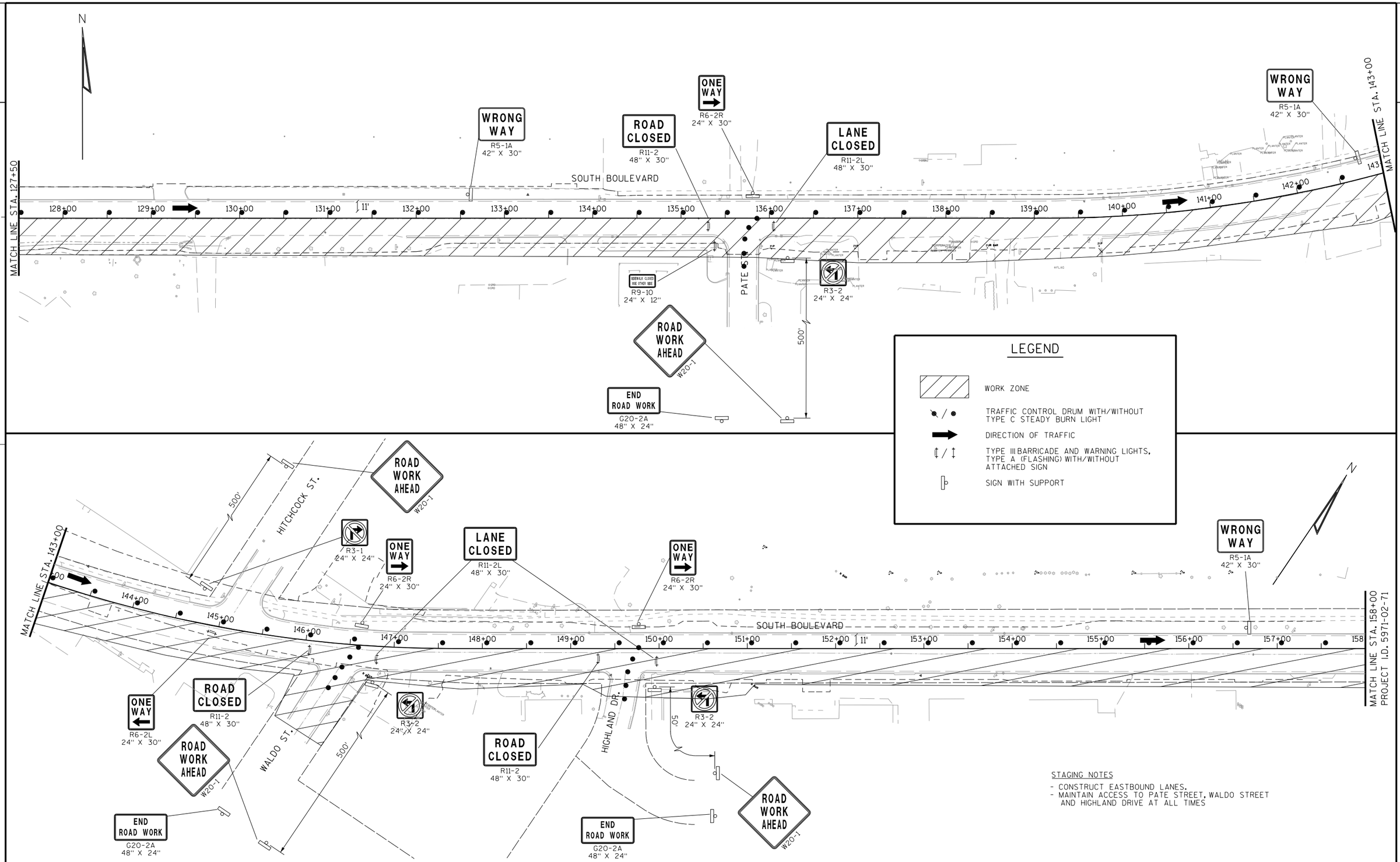
- WORK ZONE
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C STEADY BURN LIGHT
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT ATTACHED SIGN
- SIGN WITH SUPPORT



STAGING NOTES

- CONSTRUCT EASTBOUND LANES.
- MAINTAIN ACCESS TO MOORE STREET AT ALL TIMES

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STAGE CONSTRUCTION - STAGE 1	SHEET 62	E

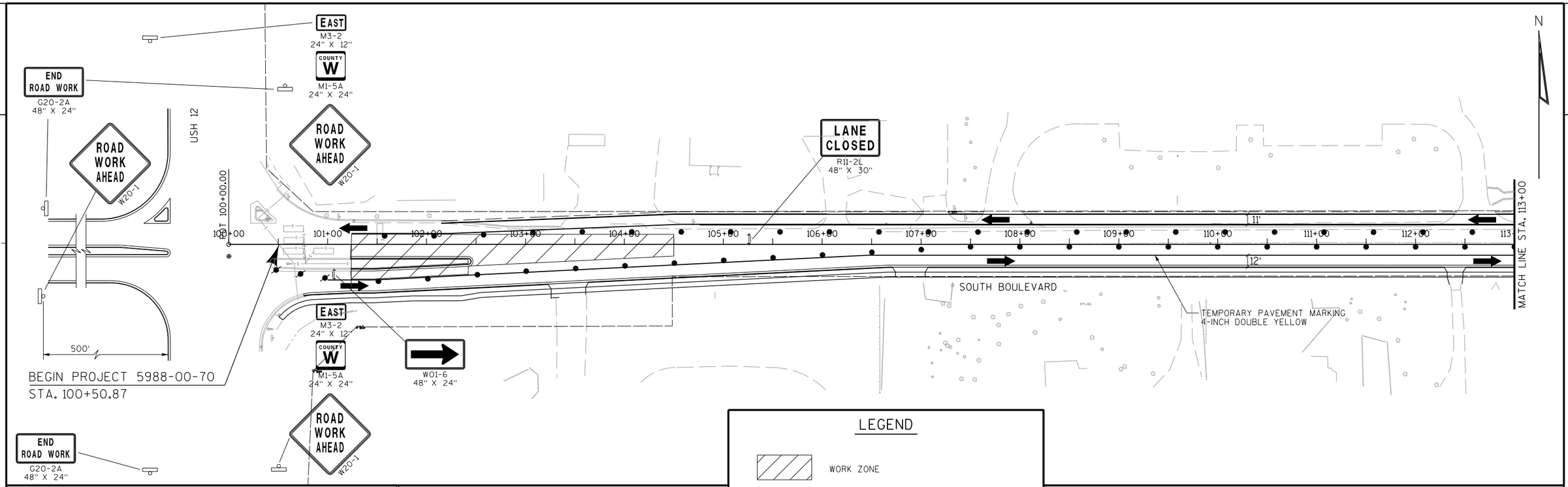


STAGING NOTES

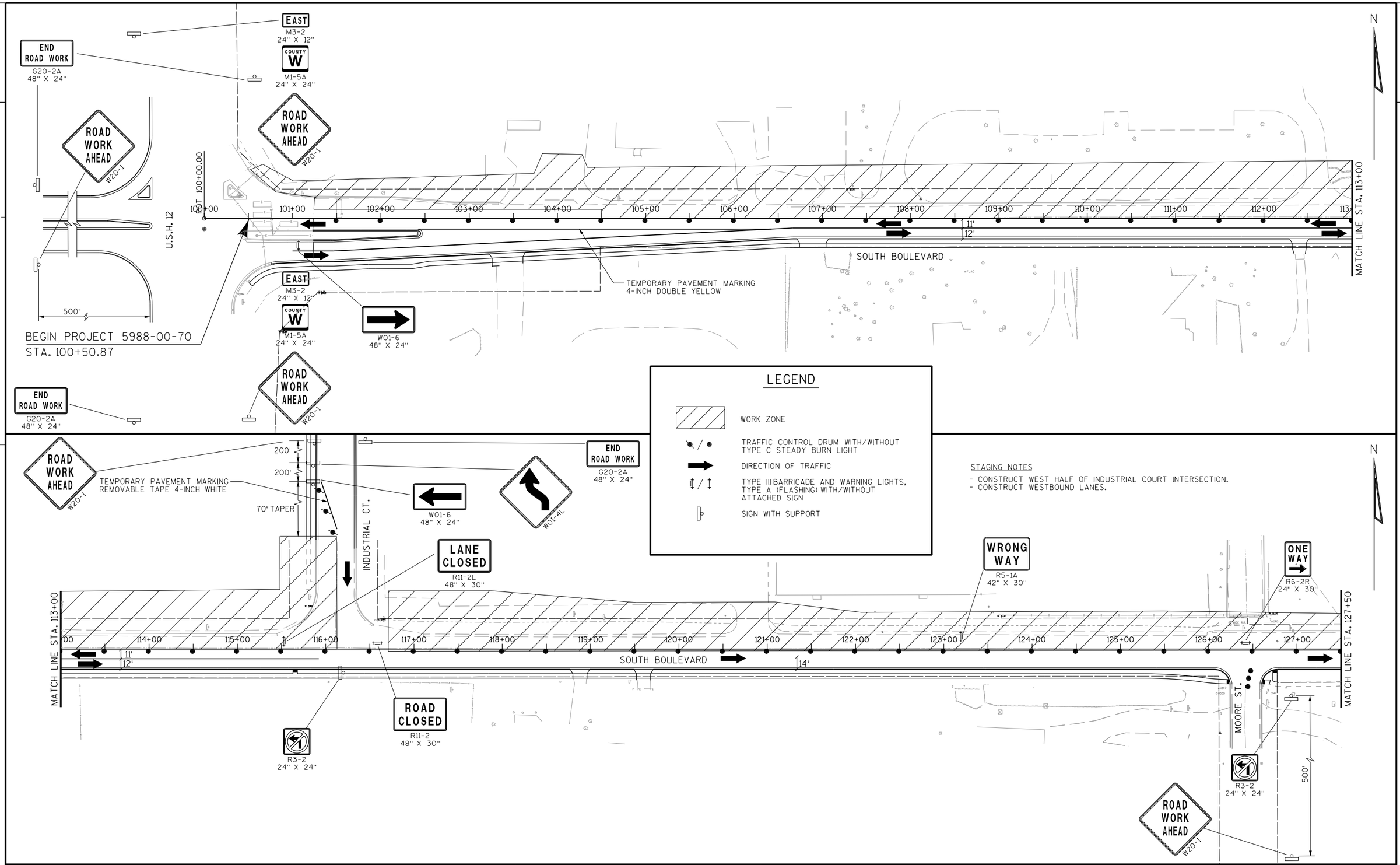
- CONSTRUCT EASTBOUND LANES.
- MAINTAIN ACCESS TO PATE STREET, WALDO STREET AND HIGHLAND DRIVE AT ALL TIMES

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STAGE CONSTRUCTION - STAGE 1	SHEET 63	E

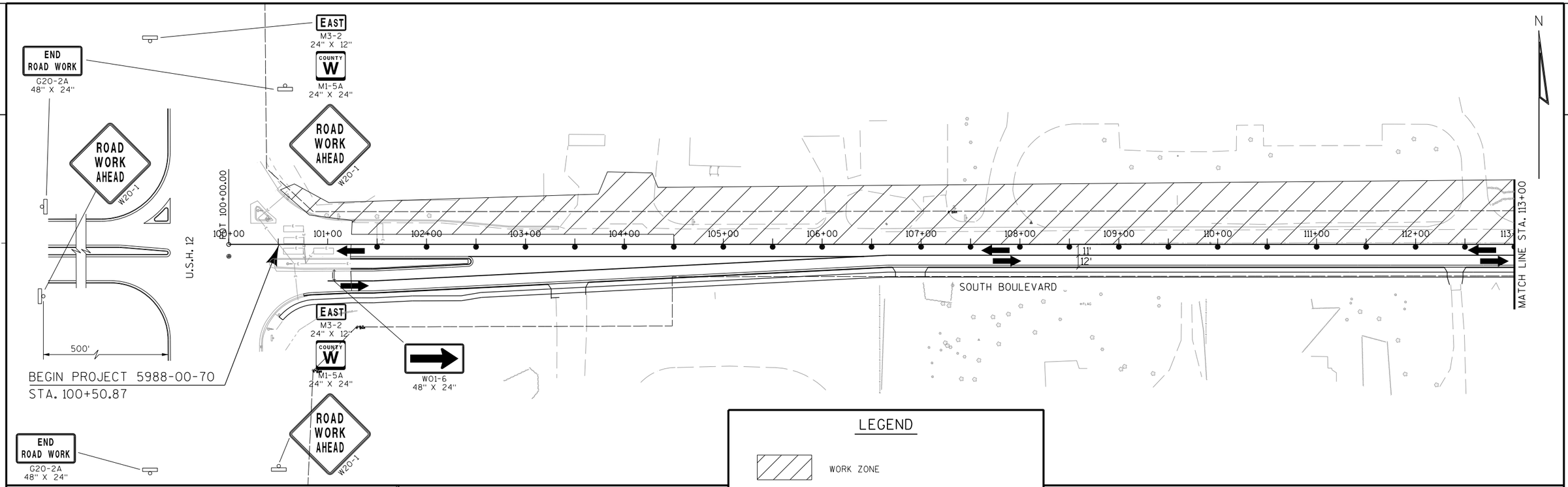
2



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STAGE CONSTRUCTION - STAGE 2A	SHEET 64	E



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STAGE CONSTRUCTION - STAGE 2B	SHEET 65	E



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STAGE CONSTRUCTION - STAGE 2C	SHEET 66	E

2

N

MATCH LINE STA. 127+50

128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00 136+00 137+00 138+00 139+00 140+00 141+00 142+00 143+00

MATCH LINE STA. 143+00

14'

SOUTH BOULEVARD

WRONG WAY
R5-1A
42" X 30"

OBSTACLE CLOSED USE OTHER LANE
R9-10
24" X 12"

ONE WAY
R6-2R
24" X 30"

WRONG WAY
R5-1A
42" X 30"

PATE ST.

R3-2
24" X 24"

500'

ROAD WORK AHEAD
W20-1

LEGEND

- WORK ZONE
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C STEADY BURN LIGHT
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT ATTACHED SIGN
- SIGN WITH SUPPORT

MATCH LINE STA. 143+00

144+00 145+00 146+00 147+00 148+00 149+00 150+00 151+00 152+00 153+00 154+00 155+00 156+00 157+00 158

MATCH LINE STA. 158+00
PROJECT I.D. 5971-02-71

HITCHCOCK ST.

500'

ROAD WORK AHEAD
W20-1

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

R3-1
24" X 24"

ONE WAY
R6-2R
24" X 30"

ONE WAY
R6-2R
24" X 30"

WRONG WAY
R5-1A
42" X 30"

SOUTH BOULEVARD

14'

LANE CLOSED
R11-2L
48" X 30"

ONE WAY
R6-2L
24" X 30"

WALDO ST.

500'

R3-2
24" X 24"

HIGHLAND DR.

50'

R3-2
24" X 24"

ROAD WORK AHEAD
W20-1

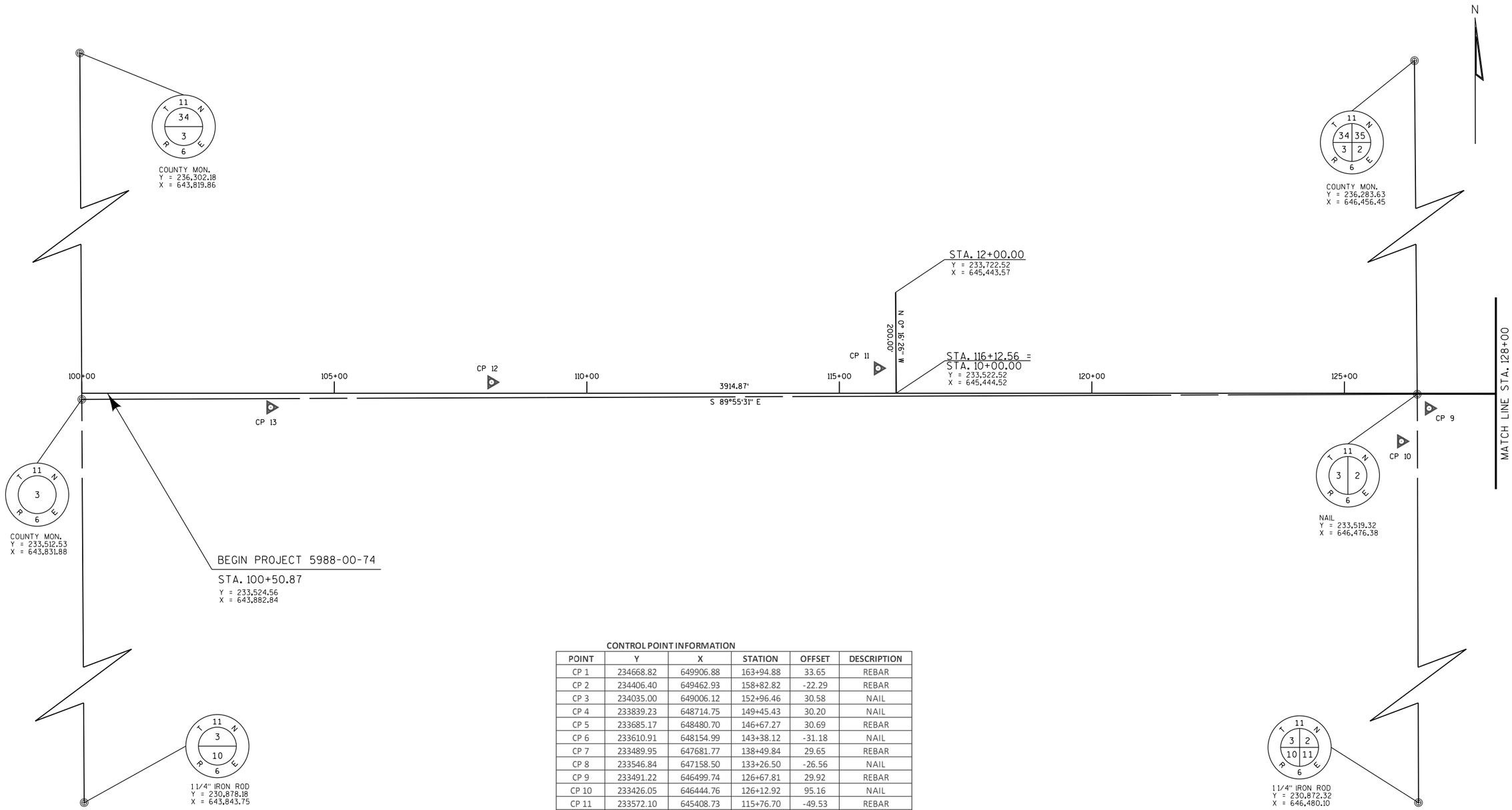
ROAD WORK AHEAD
W20-1

STAGING NOTES

- CONSTRUCT WESTBOUND LANES.
- MAINTAIN ACCESS TO HITCHCOCK STREET AT ALL TIMES

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	STAGE CONSTRUCTION - STAGE 2	SHEET 67	E

2



CONTROL POINT INFORMATION

POINT	Y	X	STATION	OFFSET	DESCRIPTION
CP 1	234668.82	649906.88	163+94.88	33.65	REBAR
CP 2	234406.40	649462.93	158+82.82	-22.29	REBAR
CP 3	234035.00	649006.12	152+96.46	30.58	NAIL
CP 4	233839.23	648714.75	149+45.43	30.20	NAIL
CP 5	233685.17	648480.70	146+67.27	30.69	REBAR
CP 6	233610.91	648154.99	143+38.12	-31.18	NAIL
CP 7	233489.95	647681.77	138+49.84	29.65	REBAR
CP 8	233546.84	647158.50	133+26.50	-26.56	NAIL
CP 9	233491.22	646499.74	126+67.81	29.92	REBAR
CP 10	233426.05	646444.76	126+12.92	95.16	NAIL
CP 11	233572.10	645408.73	115+76.70	-49.53	REBAR
CP 12	233545.44	644643.34	108+11.34	-21.87	NAIL
CP 13	233496.27	644205.94	103+74.01	27.87	REBAR
CP 100	232690.11	648436.53	143+39.56	931.70	REBAR

CONTROL POINT INFORMATION

POINT	Y	X	STATION	OFFSET	DESCRIPTION
CP 1	234668.82	649906.88	163+94.88	33.65	REBAR
CP 2	234406.40	649462.93	158+82.82	-22.29	REBAR
CP 3	234035.00	649006.12	152+96.46	30.58	NAIL
CP 4	233839.23	648714.75	149+45.43	30.20	NAIL
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CP 7	233489.95	647681.77	138+49.84	29.65	REBAR
CP 8	233546.84	647158.50	133+26.50	-26.56	NAIL
CP 9	233491.22	646499.74	126+67.81	29.92	REBAR
CP 10	233426.05	646444.76	126+12.92	95.16	NAIL
CP 11	233572.10	645408.73	115+76.70	-49.53	REBAR
CP 12	233545.44	644643.34	108+11.34	-21.87	NAIL
CP 13	233496.27	644205.94	103+74.01	27.87	REBAR
CP 100	232690.11	648436.53	143+39.56	931.70	REBAR

CURVE 1

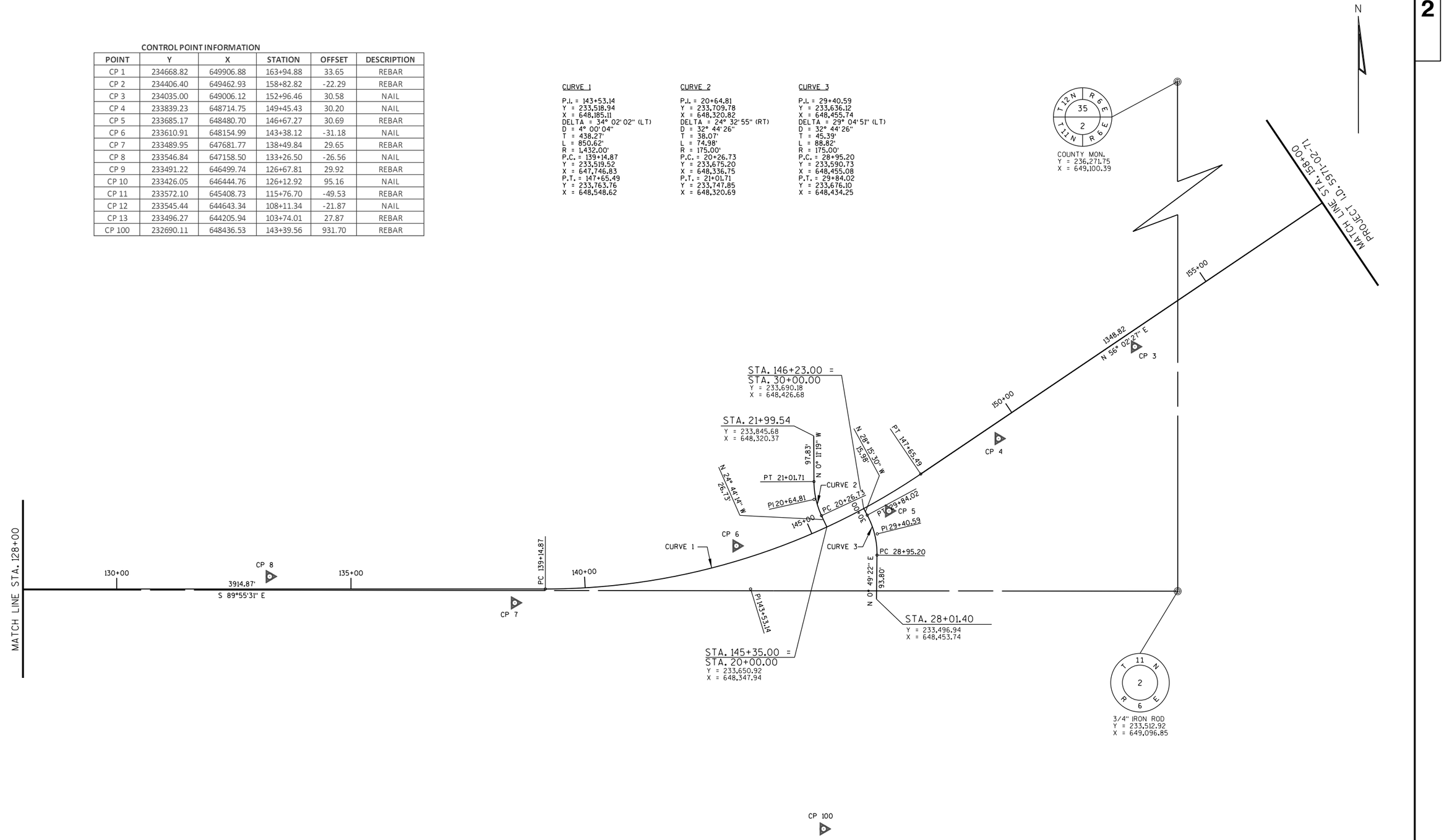
P.I. = 143+53.14
Y = 233,518.94
X = 648,185.11
DELTA = 34° 02' 02" (LT)
D = 4° 00' 04"
T = 438.27'
L = 850.62'
R = 1,432.00'
P.C. = 139+14.87
Y = 233,519.52
X = 647,746.83
P.T. = 147+65.49
Y = 233,763.76
X = 648,548.62

CURVE 2

P.I. = 20+64.81
Y = 233,709.78
X = 648,320.82
DELTA = 24° 32' 55" (RT)
D = 32° 44' 26"
T = 38.07'
L = 74.98'
R = 175.00'
P.C. = 20+26.73
Y = 233,675.20
X = 648,336.75
P.T. = 21+01.71
Y = 233,747.85
X = 648,320.69

CURVE 3

P.I. = 29+40.59
Y = 233,636.12
X = 648,455.74
DELTA = 29° 04' 51" (LT)
D = 32° 44' 26"
T = 45.39'
L = 88.82'
R = 175.00'
P.C. = 28+95.20
Y = 233,590.73
X = 648,455.08
P.T. = 29+84.02
Y = 233,676.10
X = 648,434.25



DATE 07MAR14 — E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	5988-00-70 QUANTITY
0010	201.0105	CLEARING	STA	8.000	8.000
0030	201.0205	GRUBBING	STA	8.000	8.000
0050	203.0100	REMOVING SMALL PIPE CULVERTS	EACH	5.000	5.000
0060	203.0200	REMOVING OLD STRUCTURE (STATION) 01. 109+56.45	LS	1.000	1.000
0070	203.0200	REMOVING OLD STRUCTURE (STATION) 02. 112+26.63	LS	1.000	1.000
0080	204.0100	REMOVING PAVEMENT	SY	8,556.000	8,556.000
0090	204.0130	REMOVING CURB	LF	410.000	410.000
0100	204.0150	REMOVING CURB & GUTTER	LF	6,281.000	6,281.000
0110	204.0155	REMOVING CONCRETE SIDEWALK	SY	816.000	816.000
0120	204.0170	REMOVING FENCE	LF	561.000	561.000
0130	204.0210	REMOVING MANHOLES	EACH	2.000	2.000
0140	204.0220	REMOVING INLETS	EACH	15.000	15.000
0150	204.0245	REMOVING STORM SEWER (SIZE) 01. 12-INCH	LF	237.000	237.000
0160	204.0245	REMOVING STORM SEWER (SIZE) 02. 24-INCH	LF	21.000	21.000
0180	204.0291.S	ABANDONING SEWER	CY	2.000	2.000
0190	205.0100	EXCAVATION COMMON	CY	30,433.000	30,433.000
0210	208.0100	BORROW	CY	341.000	341.000
0230	213.0100	FINISHING ROADWAY (PROJECT) 02. 5988-00-70	EACH	1.000	1.000
0240	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	74.000	74.000
0250	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	14,202.000	14,202.000
0260	310.0110	BASE AGGREGATE OPEN GRADED	TON	96.000	96.000
0270	312.0110	SELECT CRUSHED MATERIAL	TON	22,812.000	22,812.000
0290	416.0260	CONCRETE DRIVEWAY HES 6-INCH	SY	1,345.000	1,345.000
0320	455.0120	ASPHALTIC MATERIAL PG64-28	TON	523.000	523.000
0330	455.0605	TACK COAT	GAL	720.000	720.000
0340	460.1103	HMA PAVEMENT TYPE E-3	TON	9,507.000	9,507.000
0350	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	6,090.000	6,090.000
0370	465.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	TON	410.000	410.000
0380	465.0125	ASPHALTIC SURFACE TEMPORARY	TON	528.000	528.000
0390	520.8000	CONCRETE COLLARS FOR PIPE	EACH	4.000	4.000
0400	521.0118	CULVERT PIPE CORRUGATED STEEL 18-INCH	LF	44.000	44.000
0410	521.1018	APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH	EACH	2.000	2.000
0420	532.0200.S	WALL MODULAR BLOCK GRAVITY	SF	1,166.000	1,166.000
0430	601.0110	CONCRETE CURB TYPE D	LF	435.000	435.000
0450	601.0411	CONCRETE CURB & GUTTER 30-INCH TYPE D	LF	11,760.000	11,760.000
0470	601.0600	CONCRETE CURB PEDESTRIAN	LF	58.000	58.000
0480	602.0410	CONCRETE SIDEWALK 5-INCH	SF	37,218.000	37,218.000
0490	602.0505	CURB RAMP DETECTABLE WARNING FIELD YELLOW	SF	128.000	128.000
0500	606.0200	RIPRAP MEDIUM	CY	4.000	4.000
0510	608.0318	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH	LF	260.000	260.000
0520	608.0324	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH	LF	678.000	678.000
0530	608.0330	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH	LF	7.000	7.000
0540	608.0415	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH	LF	123.000	123.000
0550	608.0512	STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH	LF	650.000	650.000

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DATE 07MAR14 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	5988-00-70 QUANTITY
0560	610.0119	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 19X30-INCH	LF	245.000	245.000
0570	611.0420	RECONSTRUCTING MANHOLES	EACH	7.000	7.000
0580	611.0530	MANHOLE COVERS TYPE J	EACH	17.000	17.000
0590	611.0612	INLET COVERS TYPE C	EACH	1.000	1.000
0600	611.0624	INLET COVERS TYPE H	EACH	43.000	43.000
0610	611.0639	INLET COVERS TYPE H-S	EACH	6.000	6.000
0620	611.0642	INLET COVERS TYPE MS	EACH	6.000	6.000
0640	611.1005	CATCH BASINS 5-FT DIAMETER	EACH	2.000	2.000
0650	611.2004	MANHOLES 4-FT DIAMETER	EACH	5.000	5.000
0660	611.2005	MANHOLES 5-FT DIAMETER	EACH	1.000	1.000
0670	611.2006	MANHOLES 6-FT DIAMETER	EACH	6.000	6.000
0680	611.2008	MANHOLES 8-FT DIAMETER	EACH	1.000	1.000
0700	611.3230	INLETS 2X3-FT	EACH	45.000	45.000
0710	611.3901	INLETS MEDIAN 1 GRATE	EACH	4.000	4.000
0720	611.3902	INLETS MEDIAN 2 GRATE	EACH	2.000	2.000
0730	611.8110	ADJUSTING MANHOLE COVERS	EACH	11.000	11.000
0740	611.8115	ADJUSTING INLET COVERS	EACH	1.000	1.000
0750	611.8120.S	COVER PLATES TEMPORARY	EACH	5.000	5.000
0760	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	1,446.000	1,446.000
0770	619.1000	MOBILIZATION	EACH	0.750	0.750
0780	620.0300	CONCRETE MEDIAN SLOPED NOSE	SF	14.000	14.000
0790	624.0100	WATER	MGAL	199.000	199.000
0800	625.0100	TOPSOIL	SY	11,831.000	11,831.000
0810	628.1104	EROSION BALES	EACH	30.000	30.000
0820	628.1504	SILT FENCE	LF	3,008.000	3,008.000
0830	628.1520	SILT FENCE MAINTENANCE	LF	3,008.000	3,008.000
0840	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	3.000	3.000
0850	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	3.000	3.000
0860	628.7005	INLET PROTECTION TYPE A	EACH	7.000	7.000
0870	628.7015	INLET PROTECTION TYPE C	EACH	54.000	54.000
0880	628.7504	TEMPORARY DITCH CHECKS	LF	130.000	130.000
0890	628.7555	CULVERT PIPE CHECKS	EACH	4.000	4.000
0900	629.0210	FERTILIZER TYPE B	CWT	7.450	7.450
0910	630.0200	SEEDING TEMPORARY	LB	185.000	185.000
0920	630.0300	SEEDING BORROW PIT	LB	15.000	15.000
0930	631.0300	SOD WATER	MGAL	71.000	71.000
0940	631.1000	SOD LAWN	SY	11,831.000	11,831.000
0950	634.0612	POSTS WOOD 4X6-INCH X 12-FT	EACH	1.000	1.000
0960	634.0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	33.000	33.000
0970	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	7.000	7.000
0990	637.2210	SIGNS TYPE II REFLECTIVE H	SF	180.580	180.580
1000	637.2230	SIGNS TYPE II REFLECTIVE F	SF	42.000	42.000
1010	638.2102	MOVING SIGNS TYPE II	EACH	13.000	13.000
1020	638.2602	REMOVING SIGNS TYPE II	EACH	39.000	39.000
1030	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	31.000	31.000
1040	638.4000	MOVING SMALL SIGN SUPPORTS	EACH	6.000	6.000
1070	643.0100	TRAFFIC CONTROL (PROJECT) 02. 5988-00-70	EACH	1.000	1.000
1080	643.0300	TRAFFIC CONTROL DRUMS	DAY	20,551.000	20,551.000
1090	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	1,564.000	1,564.000
1100	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	3,128.000	3,128.000
1110	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	1,132.000	1,132.000

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DATE 07MAR14 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	5988-00-70 QUANTITY
1120	643.0900	TRAFFIC CONTROL SIGNS	DAY	5,428.000	5,428.000
1130	643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	5.000	5.000
1150	643.1050	TRAFFIC CONTROL SIGNS PCMS	DAY	48.000	48.000
1180	645.0112	GEOTEXTILE FABRIC TYPE DF SCHEDULE B	SY	643.000	643.000
1190	645.0120	GEOTEXTILE FABRIC TYPE HR	SY	14.000	14.000
1200	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	24,318.000	24,318.000
1210	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	202.000	202.000
1220	646.0600	REMOVING PAVEMENT MARKINGS	LF	2,235.000	2,235.000
1230	647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	2.000	2.000
1240	647.0356	PAVEMENT MARKING WORDS EPOXY	EACH	2.000	2.000
1250	647.0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF	173.000	173.000
1260	647.0606	PAVEMENT MARKING ISLAND NOSE EPOXY	EACH	1.000	1.000
1270	647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	195.000	195.000
1280	647.0766	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	LF	836.000	836.000
1290	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	20,470.000	20,470.000
1300	649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	LF	140.000	140.000
1310	649.0801	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH	LF	70.000	70.000
1320	650.4000	CONSTRUCTION STAKING STORM SEWER	EACH	68.000	68.000
1330	650.4500	CONSTRUCTION STAKING SUBGRADE	LF	5,925.000	5,925.000
1340	650.5000	CONSTRUCTION STAKING BASE	LF	5,925.000	5,925.000
1350	650.5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	LF	12,203.000	12,203.000
1360	650.6000	CONSTRUCTION STAKING PIPE CULVERTS	EACH	1.000	1.000
1380	650.8500	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) 02. 5988-00-70	LS	1.000	1.000
1400	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 02. 5988-00-70	LS	1.000	1.000
1410	650.9920	CONSTRUCTION STAKING SLOPE STAKES	LF	5,925.000	5,925.000
1420	652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	5,591.000	5,591.000
1430	652.0240	CONDUIT RIGID NONMETALLIC SCHEDULE 40 4-INCH	LF	86.000	86.000
1440	652.0800	CONDUIT LOOP DETECTOR	LF	73.000	73.000
1450	653.0105	PULL BOXES STEEL 12X24-INCH	EACH	1.000	1.000
1460	653.0140	PULL BOXES STEEL 24X42-INCH	EACH	9.000	9.000
1470	653.0905	REMOVING PULL BOXES	EACH	1.000	1.000
1480	654.0105	CONCRETE BASES TYPE 5	EACH	44.000	44.000
1490	654.0200	CONCRETE CONTROL CABINET BASES TYPE 6	EACH	2.000	2.000
1500	655.0610	ELECTRICAL WIRE LIGHTING 12 AWG	LF	4,752.000	4,752.000
1510	655.0615	ELECTRICAL WIRE LIGHTING 10 AWG	LF	2,262.000	2,262.000
1520	655.0620	ELECTRICAL WIRE LIGHTING 8 AWG	LF	10,968.000	10,968.000
1530	655.0625	ELECTRICAL WIRE LIGHTING 6 AWG	LF	3,978.000	3,978.000
1540	655.0800	LOOP DETECTOR WIRE	LF	196.000	196.000
1550	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 01. STA. 115+57	LS	1.000	1.000
1560	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 02. STA. 134+17	LS	1.000	1.000
1580	690.0150	SAWING ASPHALT	LF	2,842.000	2,842.000
1590	690.0250	SAWING CONCRETE	LF	4,137.000	4,137.000
1600	ASP.1T0A	ON-THE-JOB TRAINING APPRENTICE AT $5.00/HR	HRS	1,200.000	1,200.000
1610	ASP.1T0G	ON-THE-JOB TRAINING GRADUATE AT $5.00/HR	HRS	1,320.000	1,320.000
1620	SPV.0060	SPECIAL 01. POLE ASSEMBLY 30-FT	EACH	44.000	44.000

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DATE 07MAR14 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	5988-00-70 QUANTITY
1630	SPV.0060	SPECIAL 02. LED LUMINAIRE 140 LED	EACH	44.000	44.000
1650	SPV.0060	SPECIAL 04. LIGHTING CONTROL CABINET	EACH	2.000	2.000
1660	SPV.0060	SPECIAL 05. ADJUSTING SANITARY MANHOLES	EACH	22.000	22.000
1670	SPV.0060	SPECIAL 06. RECONSTRUCTING SANITARY MANHOLES	EACH	8.000	8.000
1680	SPV.0060	SPECIAL 07. ADJUSTING WATER VALVES	EACH	24.000	24.000
1700	SPV.0060	SPECIAL 09. ADJUSTING HYDRANTS	EACH	11.000	11.000
1710	SPV.0060	SPECIAL 10. LANDMARK REFERENCE MONUMENTS SPECIAL	EACH	5.000	5.000
1740	SPV.0090	SPECIAL 01. CONCRETE CURB & GUTTER 36-INCH TYPE D MODIFIED	LF	247.000	247.000
1770	SPV.0165	SPECIAL 01. STAMPED COLORED CONCRETE SIDEWALK 4-INCH	SF	1,155.000	1,155.000
1780	SPV.0180	SPECIAL 01. GEOTEXTILE FABRIC TYPE FF	SY	50.000	50.000

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CLEARING AND GRUBBING

STREET	STATION	TO	STATION	CLEARING 201.0105 STA	GRUBBING 201.0205 STA
SOUTH BOULEVARD	101+00	-	102+00	1	1
SOUTH BOULEVARD	109+00	-	111+00	2	2
SOUTH BOULEVARD	152+00	-	155+00	3	3
SOUTH BOULEVARD	156+00	-	158+00	2	2
PROJECT TOTAL				8	8

203.0100
REMOVING SMALL PIPE CULVERTS

STREET	STATION	OFFSET		TYPE	SIZE (IN)	LENGTH (FT)	203.0100 EACH
SOUTH BOULEVARD	103+43.84	32.43'	RT	CMP	N/A	40	1
SOUTH BOULEVARD	112+59.44	49.10'	LT	CMP	24	50	1
SOUTH BOULEVARD	120+85.04	29.21'	LT	CMP	18	44	1
SOUTH BOULEVARD	129+63.39	28.76'	RT	CONC	24	34	1
SOUTH BOULEVARD	129+63.40	31.48'	RT	CONC	24	34	1
PROJECT TOTAL							5

3

203.0200
REMOVING OLD STRUCTURE

STREET	STR. NO.	STATION	TO	STATION	LF	OFFSET	203.0200.01 LS	203.0200.02 LS
SOUTH BOULEVARD		109+56.45	-	109+80.93	25	RT	1	
SOUTH BOULEVARD		112+26.63	-	112+50.14	24	RT		1
						TOTAL:	1	1

204.0100
REMOVING PAVEMENT

STATION	TO	STATION	204.0100 SY
104+60	-	113+00	1867
115+50	-	131+89	3642
131+89	-	145+60	3047
PROJECT TOTAL			8556

204.0130
REMOVING CURB

STREET	FROM STATION		TO STATION	OFFSET	204.0150 LF
SOUTH BOULEVARD	129+44	-	133+54	LT	410
PROJECT TOTAL					410

204.0150
REMOVING CURB & GUTTER

STREET	FROM STATION		TO STATION	OFFSET	204.0150 LF
SOUTH BOULEVARD	100+76	-	100+88	RT	12
SOUTH BOULEVARD	101+27	-	103+33	LT	207
SOUTH BOULEVARD	101+23	-	102+97	RT	352
INDUSTRIAL COURT	10+29	-	11+25	LT	102
INDUSTRIAL COURT	10+28	-	11+25	RT	105
SOUTH BOULEVARD	126+24	-	126+25	RT	29
SOUTH BOULEVARD	126+60	-	126+68	RT	43
SOUTH BOULEVARD	126+06	-	145+03	LT	1895
HITCHCOCK STREET	20+36	-	21+00	LT	74
HITCHCOCK STREET	20+47	-	21+00	RT	50
SOUTH BOULEVARD	131+89	-	135+53	RT	376
SOUTH BOULEVARD	135+88	-	136+32	RT	58
SOUTH BOULEVARD	139+75	-	142+07	RT	235
SOUTH BOULEVARD	144+97	-	146+16	RT	129
WALDO STREET	29+00	-	29+63	LT	60
WALDO STREET	29+00	-	29+66	RT	76
SOUTH BOULEVARD	146+55	-	149+44	RT	311
SOUTH BOULEVARD	145+46	-	158+00	LT	1324
SOUTH BOULEVARD	149+76	-	158+00	RT	843
PROJECT TOTAL					6281

204.0155
REMOVING CONCRETE SIDEWALK

STREET	FROM STATION		TO STATION	OFFSET	204.0155 SY
INDUSTRIAL COURT	10+68	-	11+24	LT	31
SOUTH BOULEVARD	126+61	-	126+70	RT	5
SOUTH BOULEVARD	129+39	-	133+55	LT	647
SOUTH BOULEVARD	133+79	-	134+28	LT	60
SOUTH BOULEVARD	134+57	-	134+67	LT	6
SOUTH BOULEVARD	135+42	-	135+50	RT	6
SOUTH BOULEVARD	144+86	-	145+01	LT	20
SOUTH BOULEVARD	145+45	-	146+19	LT	41
PROJECT TOTAL					816

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

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204.0170
REMOVING FENCE

STREET	STATION	TO	STATION	LOCATION	204.0170 LF
SOUTH BOULEVARD	113+22	-	117+68	RT	561
PROJECT TOTAL					561

204.0210
REMOVING MANHOLES

STREET	STR. NO.	STATION	OFFSET	EACH
SOUTH BOULEVARD		126+16	RT	1
SOUTH BOULEVARD		136+07	RT	1
			TOTAL	2

204.0220
REMOVING INLETS

STREET	STR. NO.	STATION	OFFSET	EACH
SOUTH BOULEVARD		101+27	RT	1
SOUTH BOULEVARD		134+22	RT	1
SOUTH BOULEVARD		134+28	RT	1
SOUTH BOULEVARD		134+13	LT	1
SOUTH BOULEVARD		136+08	RT	1
SOUTH BOULEVARD		136+14	RT	1
SOUTH BOULEVARD		139+87	LT	1
SOUTH BOULEVARD		141+21	LT	1
SOUTH BOULEVARD		141+28	LT	1
SOUTH BOULEVARD		146+06	RT	1
SOUTH BOULEVARD		146+16	RT	1
SOUTH BOULEVARD		146+55	RT	1
SOUTH BOULEVARD		149+32	RT	1
SOUTH BOULEVARD		150+83	LT	1
SOUTH BOULEVARD		153+90	RT	1
			TOTAL	15

3

204.0245
REMOVING STORM SEWER

STREET	STATION	LOCATION	TO	STATION	LOCATION	204.0245.01 12-INCH	204.0245.02 24-INCH
SOUTH BOULEVARD	101+26.77	LT	-	101+27.16	RT	30	-
SOUTH BOULEVARD	125+95.02	RT	-	126+16.06	RT	-	21
SOUTH BOULEVARD	126+14.72	LT	-	126+95.80	LT	81	-
SOUTH BOULEVARD	135+98.53	RT	-	136+07.15	RT	9	-
SOUTH BOULEVARD	136+07.15	RT	-	136+07.61	RT	5	-
SOUTH BOULEVARD	136+07.61	RT	-	136+13.60	RT	6	-
SOUTH BOULEVARD	139+79.12	LT	-	139+86.78	LT	8	-
SOUTH BOULEVARD	141+20.34	LT	-	141+21.18	LT	7	-
SOUTH BOULEVARD	141+21.18	LT	-	141+28.30	LT	7	-
SOUTH BOULEVARD	146+04.64	RT	-	146+15.82	RT	16	-
SOUTH BOULEVARD	146+04.64	RT	-	146+54.82	RT	53	-
SOUTH BOULEVARD	149+31.00	RT	-	149+31.75	RT	3	-
SOUTH BOULEVARD	150+82.66	LT	-	150+82.87	LT	5	-
SOUTH BOULEVARD	153+89.97	RT	-	153+90.09	RT	7	-
PROJECT TOTAL						237	21

204.0291.S
ABANDONING STORM SEWER

STREET	STATION	LOCATION	TO	STATION	LOCATION	SIZE	204.0291.S CY
SOUTH BOULEVARD	101+19.52	46.60 RT	-	101+19.19	5.27 LT	12-INCH	2
PROJECT TOTAL							2

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

EARTHWORK SUMMARY

Division	From/To Station	Location	Common Excavation (1)	(item # 205.0100)	Salvaged/ Unusable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate +/- (14)	Waste	Borrow (15)	Comment:
			Cut (2)	EBS Excavation (3)				Factor 1.25			(item #208.0100)	
SOUTH BOULEVARD - TEMP WIDENING	102+15 to 115+75	Mainline	389	0	0	389	584	730	-341		341	
SOUTH BOULEVARD	100+63 to 158+00	Mainline	27879	1500	6120	21760	4051	5063	16696			
INDUSTRIAL COURT	10+50 to 11+25	Sideroad	207	15	68	138	54	67	71			
HITCHCOCK STREET	20+35 to 21+00	Sideroad	209	15	43	166	0	0	166			
WALDO STREET	29+00 to 29+60	Sideroad	204	15	56	148	3	3	144			
			28888	1545								
CATEGORY 0010 SUBTOTAL			Total Common Exc	30433	6288	22600	4691	5864	17077	17077	341	

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 Breaker run. Excavated EBS material is useable in Fills outside the 1:1 slope.
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
13) Expanded Fill. Factor = 1.25
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) Borrow Excavation item number 208.0100

BASE AGGREGATE DENSE 3/4-INCH

STREET	STATION		305.0110 TON
SOUTH BOULEVARD	103+46	RT	10
SOUTH BOULEVARD	104+02	LT	50
SOUTH BOULEVARD	106+12	LT	14
PROJECT TOTAL			74

305.0120
BASE AGGREGATE DENSE 1 1/4-INCH

STREET	STATION	TO	STATION	LOCATION	305.0120 TON
SOUTH BOULEVARD	100+85	-	115+75	TEMPORARY WIDENING	1220
SOUTH BOULEVARD	100+51	-	116+13	MAINLINE PAVEMENT	3600
SOUTH BOULEVARD	116+13	-	126+42	MAINLINE PAVEMENT	2258
SOUTH BOULEVARD	126+42	-	135+70	MAINLINE PAVEMENT	1910
SOUTH BOULEVARD	135+70	-	145+35	MAINLINE PAVEMENT	2122
SOUTH BOULEVARD	145+35	-	146+23	MAINLINE PAVEMENT	230
SOUTH BOULEVARD	146+23	-	149+62	MAINLINE PAVEMENT	714
SOUTH BOULEVARD	149+62	-	158+00	MAINLINE PAVEMENT	1880
INDUSTRIAL COURT	10+70	-	11+25	MAINLINE PAVEMENT	92
HITCHCOCK STREET	20+44	-	21+00	MAINLINE PAVEMENT	88
WALDO STREET	29+00	-	29+54	MAINLINE PAVEMENT	88
PROJECT TOTAL					14202

BASE AGGREGATE OPEN GRADED

STREET	STATION		310.0110 TON
SOUTH BOULEVARD	118+50	LT	24
SOUTH BOULEVARD	118+50	RT	24
SOUTH BOULEVARD	132+60	LT	24
SOUTH BOULEVARD	132+60	RT	24
PROJECT TOTAL			96

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\030201_mq.dgn PLOT DATE : 3/5/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0001 ft / in.
WISDOT/CADDS SHEET 43

312.0110
SELECT CRUSHED MATERIAL

LOCATION	STATION		TO STATION	OFFSET	312.0110 TONS
TEMPORARY WIDENING	102+00	-	115+75	LT	1134
SOUTH BOULEVARD	100+51	-	116+13	LT & RT	5225
SOUTH BOULEVARD	116+13	-	126+42	LT & RT	3427
SOUTH BOULEVARD	126+42	-	135+70	LT & RT	3027
SOUTH BOULEVARD	135+70	-	145+35	LT & RT	3069
SOUTH BOULEVARD	145+35	-	146+23	LT & RT	337
SOUTH BOULEVARD	146+23	-	149+62	LT & RT	1138
SOUTH BOULEVARD	149+62	-	158+00	LT & RT	2716
INDUSTRIAL COURT	10+70	-	11+25	LT & RT	166
HITCHCOCK STREET	20+44	-	21+00	LT & RT	141
WALDO STREET	29+00	-	29+54	LT & RT	131
UNDISTRIBUTED (EBS)					2300
PROJECT TOTAL					22812

416.0260
CONCRETE DRIVEWAY HES 6-INCH

STREET	STATION	OFFSET	416.0260 SY
SOUTH BOULEVARD	102+07	LT	25
SOUTH BOULEVARD	103+43	RT	37
SOUTH BOULEVARD	104+23	LT	41
SOUTH BOULEVARD	105+10	LT	28
SOUTH BOULEVARD	106+16	LT	37
SOUTH BOULEVARD	106+89	RT	37
SOUTH BOULEVARD	107+11	LT	37
SOUTH BOULEVARD	107+80	LT	37
SOUTH BOULEVARD	112+40	RT	18
SOUTH BOULEVARD	112+59	LT	37
SOUTH BOULEVARD	118+88	RT	19
SOUTH BOULEVARD	119+60	RT	19
SOUTH BOULEVARD	120+85	LT	37
SOUTH BOULEVARD	129+21	LT	31
SOUTH BOULEVARD	129+62	RT	60
SOUTH BOULEVARD	131+95	RT	48
SOUTH BOULEVARD	133+71	LT	23
SOUTH BOULEVARD	133+88	RT	21
SOUTH BOULEVARD	135+62	LT	7
SOUTH BOULEVARD	136+08	LT	10
SOUTH BOULEVARD	137+17	RT	37
SOUTH BOULEVARD	138+04	LT	14
SOUTH BOULEVARD	138+17	RT	24
SOUTH BOULEVARD	138+62	LT	15
SOUTH BOULEVARD	138+66	RT	28
SOUTH BOULEVARD	139+91	RT	35
SOUTH BOULEVARD	140+14	LT	12
SOUTH BOULEVARD	140+66	LT	13
SOUTH BOULEVARD	140+96	RT	11
SOUTH BOULEVARD	141+85	RT	28
SOUTH BOULEVARD	142+43	LT	7
SOUTH BOULEVARD	142+70	RT	32
SOUTH BOULEVARD	142+92	LT	11
SOUTH BOULEVARD	144+50	RT	33
SOUTH BOULEVARD	145+27	RT	31
SOUTH BOULEVARD	145+72	RT	28
SOUTH BOULEVARD	147+05	RT	33
SOUTH BOULEVARD	148+07	RT	28
SOUTH BOULEVARD	149+43	LT	33
SOUTH BOULEVARD	150+13	RT	19
SOUTH BOULEVARD	150+78	RT	36
SOUTH BOULEVARD	151+22	RT	28
SOUTH BOULEVARD	152+78	RT	28
SOUTH BOULEVARD	154+18	RT	28
SOUTH BOULEVARD	155+68	RT	37
SOUTH BOULEVARD	156+38	RT	19
SOUTH BOULEVARD	156+98	RT	28
SOUTH BOULEVARD	157+73	RT	28
HITCHCOCK STREET	20+88	RT	23
WALDO STREET	29+52	RT	9
PROJECT TOTAL			1345

ASPHALTIC PAVEMENT

STATION	TO	STATION	ROADWAY	LOCATION	455.0120 ASPHALTIC MATERIAL PG64-28 (TON)	455.0605 TACK COAT (GAL)	460.1103 HMA PAVEMENT TYPE E-3 (TON)
100+51	-	116+13	SOUTH BOULEVARD	MAINLINE	141	194	2567
116+13	-	126+42	SOUTH BOULEVARD	MAINLINE	91	126	1663
126+42	-	135+70	SOUTH BOULEVARD	MAINLINE	83	115	1517
135+70	-	145+35	SOUTH BOULEVARD	MAINLINE	83	114	1502
145+35	-	146+23	SOUTH BOULEVARD	MAINLINE	10	13	175
146+23	-	149+62	SOUTH BOULEVARD	MAINLINE	31	42	556
149+62	-	158+00	SOUTH BOULEVARD	MAINLINE	73	100	1321
10+70	-	11+25	INDUSTRIAL COURT	MAINLINE	4	6	80
20+44	-	21+00	HITCHCOCK STREET	MAINLINE	4	5	66
29+00	-	29+54	WALDO STREET	MAINLINE	3	5	60
PROJECT TOTALS					523	720	9507

ASPHALTIC SURFACE TEMPORARY

STATION	TO	STATION	ROADWAY	LOCATION	465.0125 (TON)
100+85	-	103+00	SOUTH BOULEVARD	MEDIAN	61
102+15	-	115+75	SOUTH BOULEVARD	LT	467
PROJECT TOTALS					528

465.0120
ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

LOCATION	STATION	OFFSET	465.0120 TON
DRIVEWAYS			
SOUTH BOULEVARD	103+46.00	RT	3
SOUTH BOULEVARD	106+12.00	LT	12
SOUTH BOULEVARD	107+11.00	LT	6
SOUTH BOULEVARD	107+80.00	LT	7
SOUTH BOULEVARD	112+41.00	RT	3
SOUTH BOULEVARD	112+59.00	LT	20
SOUTH BOULEVARD	118+88.00	RT	4
SOUTH BOULEVARD	119+60.00	RT	1
SOUTH BOULEVARD	120+85.00	LT	15
SOUTH BOULEVARD	129+21.00	LT	6
SOUTH BOULEVARD	133+65.00	LT	5
SOUTH BOULEVARD	137+17.00	RT	10
SOUTH BOULEVARD	138+17.00	RT	7
SOUTH BOULEVARD	138+66.00	RT	2
SOUTH BOULEVARD	139+91.00	RT	6
SOUTH BOULEVARD	141+85.00	RT	2
SOUTH BOULEVARD	142+70.00	RT	8
SOUTH BOULEVARD	144+50.00	RT	4
SOUTH BOULEVARD	145+27.00	RT	4
SOUTH BOULEVARD	145+72.00	RT	1
SOUTH BOULEVARD	147+05.00	RT	1
SOUTH BOULEVARD	148+07.00	RT	4
SOUTH BOULEVARD	150+13.00	RT	2
SOUTH BOULEVARD	150+78.00	RT	12
SOUTH BOULEVARD	151+22.00	RT	1
SOUTH BOULEVARD	152+78.00	RT	1
SOUTH BOULEVARD	154+18.00	RT	2
SOUTH BOULEVARD	155+68.00	RT	4
SOUTH BOULEVARD	156+38.00	RT	2
SOUTH BOULEVARD	156+98.00	RT	3
SOUTH BOULEVARD	157+73.00	RT	2
WALDO STREET	29+52.00	RT	4
PARKING LOT MATCHES			
SOUTHBOULEVARD	117+55.83	LT	16
SOUTHBOULEVARD	140+89.52	RT	15
SOUTHBOULEVARD	142+27.72	RT	7
SOUTHBOULEVARD	143+60.00	RT	8
SOUTHBOULEVARD	144+87.82	RT	4
SOUTHBOULEVARD	145+03.00	LT	27
SOUTHBOULEVARD	145+50.00	RT	2
SOUTHBOULEVARD	145+92.45	RT	2
WALDO STREET	29+21.18	LT	11
SOUTHBOULEVARD	150+27.14	RT	12
SOUTHBOULEVARD	151+02.00	RT	3
SOUTHBOULEVARD	152+00.00	RT	26
SOUTHBOULEVARD	153+48.00	RT	47
SOUTHBOULEVARD	154+91.00	RT	27
SOUTHBOULEVARD	156+07.00	RT	11
SOUTHBOULEVARD	156+66.00	RT	15
SOUTHBOULEVARD	157+35.80	RT	13
PROJECT TOTAL			410

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

STRUCT. NO.	STATION	OFFSET	C-C (FT)	TO STRUCT.	INLET TYPE & COVER	MH TYPE & COVER	RIM/GRATE ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	INLET ELEV.	DISCH. ELEV.	LENGTH (FT)	SLOPE (%)	PIPE CLASS	REMARKS
10	101+26.80	5.4' LT	--	9	-- --	-- --	932.51	--	--	--	--	--	--	--	RECONSTRUCT MANHOLE
10A	101+26.60	24.1' LT	--	10	-- --	-- --	932.14	--	--	--	--	--	--	--	
10B	101+28.00	25.0' RT	30.0	10	-- --	6-FT DIA. H	932.97	4.80	24	928.17	927.89	30.00	0.94	III	
10C	101+75.00	23.5' RT	47.0	10B	2x3-FT H	-- --	932.73	3.20	12	929.53	928.83	47.00	1.50	V	
10D	101+30.00	67.0' RT	42.0	10B	MEDIAN 2 GRATE MS	-- --	931.91	3.37	24	928.54	928.17	42.00	0.88	III	
10E	102+50.00	60.5' RT	120.0	10D	MEDIAN 1 GRATE MS	-- --	932.12	2.62	18	929.50	929.04	120.00	0.38	III	
10F	102+40.00	44.3' RT	10.0	10G	2x3-FT HS	-- --	932.01	2.50	12	929.51	929.41	10.00	1.00	V	
10G	102+50.00	43.8' RT	17.0	10E	2x3-FT H	-- --	932.06	2.65	12	929.41	929.34	17.00	0.40	V	
10H	103+70.00	55.0' RT	120.0	10E	MEDIAN 1 GRATE MS	-- --	932.50	2.17	12	930.33	929.73	120.00	0.50	V	
11	102+40.00	5.0' LT	113.0	10	-- --	4-FT DIA. J	931.97	3.76	18	928.21	927.87	113.00	0.30	III	
11A	102+40.00	24.14' LT	19.0	11	2x3-FT HS	-- --	931.58	3.05	15	928.53	928.46	19.00	0.35	IV	
11B	102+50.00	24.14' LT	10.0	11A	2x3-FT H	-- --	931.63	2.80	12	928.83	928.78	10.00	0.50	V	
11C	102+40.00	14.20' RT	19.0	11	2x3-FT HS	-- --	932.30	3.40	12	928.90	928.71	19.00	1.00	V	
12	110+50.00	6.0' RT	300.0	13	-- --	5-FT DIA. J	922.71	5.64	24	917.07	902.07	300.00	5.00	III	
12A	110+50.00	23.0' LT	29.0	12	2x3-FT H	-- --	922.41	3.50	12	918.91	918.48	29.00	1.50	V	
12B	110+50.00	23.0' RT	17.0	12	CB 5-FT DIA H	-- --	922.41	4.41	24	918.00	917.32	17.00	4.00	V	CATCH BASIN 5-FT DIAMETER
12C	109+80.00	23.0' RT	70.0	12B	CB 5-FT DIA H	-- --	925.75	4.70	24	921.05	918.25	70.00	4.00	V	CATCH BASIN 5-FT DIAMETER
13	113+50.00	6.0' RT	192.0	14	-- --	4-FT DIA. J	907.71	5.74	24	901.97	892.37	192.00	5.00	III	
13A	113+50.00	23.0' LT	29.0	13	2x3-FT H	-- --	907.41	3.50	12	903.91	903.48	29.00	1.50	V	
13B	113+50.00	23.0' RT	17.0	13	2x3-FT H	-- --	907.41	3.50	12	903.91	903.66	17.00	1.50	V	
14	115+42.00	6.0' RT	94.0	15	-- --	4-FT DIA. J	898.11	5.84	24	892.27	887.57	94.00	5.00	III	
14A	115+42.00	23.0' LT	29.0	14	2x3-FT H	-- --	897.81	3.50	12	894.31	893.88	29.00	1.50	V	
14B	115+42.00	23.0' RT	17.0	14	2x3-FT H	-- --	897.81	3.50	12	894.31	894.06	17.00	1.50	V	
15	116+36.00	6.0' RT	--	--	-- --	8-FT DIA. J	894.03	14.53	--	879.50	--	--	--	--	CONNECT TO EXISTING 38" X 60" SSPRCHE
16	116+36.20	32.0' RT	--	15	-- --	-- J	894.36	--	--	--	--	--	--	--	RECONSTRUCT MANHOLE
17	118+50.00	32.2' RT	--	16	-- --	-- J	889.84	--	--	--	--	--	--	--	RECONSTRUCT MANHOLE
17A	118+50.00	23.0' LT	46.0	17B	2x3-FT H	-- --	889.20	3.50	12	885.70	885.24	46.00	1.00	V	
17B	118+50.00	23.0' RT	9.0	17	2x3-FT H	-- --	889.20	4.06	12	885.14	885.05	9.00	1.00	V	
17C	118+50.00	38.0' RT	6.0	17	MEDIAN 1 GRATE MS	-- --	888.80	3.80	18	885.00	884.88	6.00	2.00	III	
17D	119+29.70	32.0' RT	--	17	-- --	-- J	888.95	--	--	--	--	--	--	--	RECONSTRUCT MANHOLE
18	120+56.00	32.3' RT	--	17D	-- --	6-FT DIA. J	887.93	8.14	--	879.79	--	--	--	--	
18A	120+46.00	23.0' LT	10.0	18B	2x3-FT H	-- --	887.32	3.50	12	883.82	883.72	10.00	1.00	V	CORE FOR 6" TILE TO DRAIN
18B	120+56.00	23.0' LT	46.0	18D	2x3-FT HS	-- --	887.29	3.82	15	883.47	883.01	46.00	1.00	IV	CORE FOR 6" TILE TO DRAIN
18C	120+46.00	23.0' RT	10.0	18D	2x3-FT H	-- --	887.32	3.50	15	883.82	883.72	10.00	1.00	IV	CORE FOR 6" TILE TO DRAIN
18D	120+56.00	23.0' RT	9.0	18	2x3-FT HS	-- --	887.29	4.38	15	882.91	882.82	9.00	1.00	IV	CORE FOR 6" TILE TO DRAIN
19	122+76.90	32.9' RT	--	18	-- --	-- J	887.83	--	--	--	--	--	--	--	RECONSTRUCT MANHOLE
19A	122+77.00	40.0' RT	7.0	19	MEDIAN 2 GRATE MS	-- --	886.30	4.80	30	881.50	881.36	7.00	2.00	III	
20	125+95.00	32.7' RT	--	19	-- --	6-FT DIA. J	886.32	6.00	--	880.32	--	--	--	--	
20A	125+93.00	46.0' RT	13.0	20	MEDIAN 1 GRATE MS	-- --	884.55	2.71	18	881.84	881.58	13.00	2.00	III	
20	125+95.00	32.7' RT	--	--	-- --	-- --	886.32	--	--	880.32	--	--	--	--	
21	126+16.10	32.6' RT	20.0	20	-- --	6-FT DIA. J	885.90	5.38	24	880.52	880.42	20.00	0.50	III	
21A	126+20.45	29.45' RT	5.0	21	2x3-FT H	-- --	885.43	3.50	12	881.93	881.83	5.00	2.00	V	
22	126+96.00	28.9' LT	--	24	-- --	-- --	885.35	--	--	--	--	--	--	--	ADJUST MANHOLE
22A	126+96.00	23.0' LT	--	22	2x3-FT H	-- --	884.77	3.17	12	881.60	--	--	--	--	
23	129+30.00	31.0' RT	245.0	26	-- --	6-FT DIA. C	879.90	3.50	19X30	876.40	874.76	245.00	0.67	III	
23A	129+30.00	23.0' RT	8.0	23	2x3-FT H	-- --	879.93	2.88	12	877.05	876.97	8.00	1.00	V	
24	129+64.40	27.6' LT	--	24B	-- --	-- --	879.73	--	--	--	--	--	--	--	ADJUST MANHOLE
24A	129+64.50	23.0' LT	--	24	2x3-FT H	-- --	879.19	2.54	12	876.65	--	--	--	--	
24B	130+44.50	27.3' LT	--	25	-- --	-- J	878.54	--	--	--	--	--	--	--	ADJUST MANHOLE

NOTES:
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2. INLET RIM/GRATE ELEVATIONS ARE TO THE FLANGE LINE.
3. MANHOLE RIM/GRATE ELEVATIONS ARE TO THE CENTER OF STRUCTURE.
4. DEPTH OF STRUCTURES ARE MEASURED FROM THE LOWEST INVERT OF THE STRUCTURE TO THE RIM/GRATE ELEVATION.
5. PIPE LENGTHS FOR ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

STRUCT. NO.	STATION	OFFSET	C-C (FT)	TO STRUCT.	INLET TYPE & COVER	MH TYPE & COVER	RIM/GRATE ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCH. ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	DISCHARGE PIPE CLASS	REMARKS
25	131+17.90	27.1' LT	--	27	-- --	-- J	878.00	--	--	--	--	--	--	--	ADJUST MANHOLE
25A	131+18.00	36.0' LT	9.0	25	2x3-FT H	-- --	879.75	5.25	12	874.50	874.32	9.00	2.00	V	
26	131+75.00	30.0' RT	--	30	-- --	6-FT DIA. J	878.12	3.36	19X30	874.76	--	--	--	--	
26A	131+75.00	23.0' RT	7.0	26	2x3-FT H	-- --	877.12	1.71	12	875.41	875.34	7.00	1.00	V	
27	132+34.10	26.7' LT	--	--	-- --	-- --	877.25	--	--	--	--	--	--	--	ADJUST MANHOLE
27A	133+45.00	36.0' LT	9.0	--	2x3-FT H	-- --	877.25	3.50	12	873.75	873.57	9.00	2.00	V	CONCRETE COLLAR REQUIRED
28	134+13.50	23.0' LT	--	--	2x3-FT H	-- --	875.58	2.61	12	872.97	--	--	--	--	
28A	134+62.00	23.0' LT	4.0	--	2x3-FT HS	-- --	875.36	2.25	15	873.11	873.07	4.00	1.00	IV	CONCRETE COLLAR REQUIRED, CORE FOR 6" TILE TO DRAIN
29	134+22.50	23.0' RT	--	--	2x3-FT H	-- --	875.53	2.12	12	873.41	--	--	--	--	
29A	134+28.00	23.0' RT	--	--	2x3-FT H	-- --	875.49	2.05	12	873.44	--	--	--	V	
29B	134+62.00	23.0' RT	5.0	--	2x3-FT HS	-- --	875.36	2.00	12	873.36	873.31	5.00	1.00	V	CONCRETE COLLAR REQUIRED, CORE FOR 6" TILE TO DRAIN
30	135+48.40	27.4' RT	--	31	-- --	-- --	875.73	--	--	--	--	--	--	--	ADJUST INLET
30A	135+52.70	40.4' RT	--	30	-- --	-- --	875.85	--	--	--	--	--	--	--	
31	135+89.20	24.4' RT	--	32	-- --	-- --	876.27	--	--	--	--	--	--	--	ADJUST MANHOLE
31A	135+98.50	24.5' RT	--	31	-- --	4-FT DIA. H	876.31	3.59	18	872.72	--	--	--	--	
31B	136+06.00	23.0' RT	8.0	31A	2x3-FT H	-- --	876.45	3.32	15	873.13	872.97	8.00	2.00	IV	
31C	136+12.00	23.0' RT	6.0	31B	2x3-FT H	-- --	876.50	3.25	15	873.25	873.13	6.00	2.00	IV	
32	135+43.60	27.1' LT	--	32B	-- --	-- --	876.14	--	--	--	--	--	--	--	
32A	135+44.00	23.0' LT	--	32	2x3-FT H	-- --	875.89	2.69	15	873.20	--	--	--	--	
32B	135+89.70	19.0' LT	--	32C	-- --	-- --	876.34	--			--	--	--	--	ADJUST MANHOLE
32C	136+23.90	40.5' LT	--	32D	-- --	-- --	876.61	--	--	--	--	--	--	--	
32D	136+27.00	21.3' LT	--	33	-- --	-- --	876.64	--	--	--	--	--	--	--	ADJUST MANHOLE
33	139+79.10	21.7' LT	--	34	-- --	-- --	879.62	--	--	--	--	--	--	--	ADJUST MANHOLE
33A	139+90.00	23.0' LT	11.0	33	2x3-FT H	-- --	879.72	4.00	15	875.72	875.50	11.00	2.00	IV	
34	141+20.30	14.9' LT	--	35	-- --	-- --	881.35	--	--	--	--	--	1.00	--	RECONSTRUCT MANHOLE
34A	141+20.00	23.0' LT	8.0	34	2x3-FT H	-- --	881.16	4.00	18	877.16	877.00	8.00	2.00	III	
34B	141+30.00	23.0' LT	10.0	34A	2x3-FT H	-- --	881.28	3.50	15	877.78	877.58	10.00	2.00	IV	
34C	141+20.00	23.0' RT	38.0	34	2x3-FT H	-- --	882.42	3.50	12	878.92	877.78	38.00	3.00	V	
35	142+38.80	16.2' LT	--	--	-- --	-- --	882.51	--	--	--	--	--	--	--	ADJUST MANHOLE
36	146+54.80	37.4' RT	--	38	-- --	4-FT DIA. J	883.65	5.69	15	877.96	--	--	--	--	
36A	146+38.50	37.0' RT	17.0	36	2x3-FT H	-- --	883.35	4.21	12	879.14	878.72	17.00	2.50	V	
36B	146+04.00	37.0' RT	35.0	36A	2x3-FT H	-- --	884.14	4.38	12	879.76	879.34	35.00	1.20	V	
36C	145+90.00	23.3' RT	20.0	36B	2x3-FT H	-- --	883.56	3.50	12	880.06	879.96	20.00	0.50	V	
38	146+81.20	23.0' LT	--	39	-- H	-- --	880.29	--	--	--	--	--	--	--	RECONSTRUCT MANHOLE
39	149+21.00	17.7' LT	--	39D	-- --	-- J	871.17	--	--	--	--	--	--	--	ADJUST MANHOLE
39A	149+20.00	23.0' LT	5.0	39	2x3-FT H	-- --	871.14	3.50	12	867.64	867.59	5.00	1.00	V	
39B	149+31.20	23.8' RT	--	39	2x3-FT H	-- --	870.63	3.13	12	867.50	867.30	--	--	V	
39C	149+76.50	45.0' RT	50.0	39B	2x3-FT H	-- --	870.49	2.82	12	867.67	867.50	50.00	0.35	V	
39D	149+67.40	29.8' LT	--	40	-- --	-- --	869.46	--	--	--	--	--	--	--	
40	150+83.10	28.8' LT	--	--	-- --	-- --	--	--	--	--	--	--	--	--	
40A	150+83.00	23.0' LT	--	40	2x3-FT H	-- --	865.76	5.71	18	860.05	--	--	--	--	
41	153+91.20	27.3' LT	--	42	-- --	-- --	858.46	--	--	--	--	--	--	--	
41A	153+91.00	23.0' LT	--	41	2x3-FT H	-- --	857.64	3.39	15	854.25	--	--	--	--	
41B	153+90.00	23.0' RT	--	--	2x3-FT H	-- --	857.67	2.52	12	855.15	--	--	--	--	
--	--	--	6.0	41A	-- --	-- --	--	--	12	854.55	854.46	6.00	1.50	V	CONCRETE COLLAR REQUIRED

NOTES:
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3. MANHOLE RIM/GRATE ELEVATIONS ARE TO THE CENTER OF STRUCTURE.
4. DEPTH OF STRUCTURES ARE MEASURED FROM THE LOWEST INVERT OF THE STRUCTURE TO THE RIM/GRATE ELEVATION.
5. PIPE LENGTHS FOR ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

STORM SEWER SUMMARY

ITEM NUMBER	ITEM	QUANTITY		NOTES
520.8000	CONCRETE COLLARS FOR PIPE	4	EACH	
521.0118	CULVERT PIPE CORRUGATED STEEL 18-INCH	44	LF	MIN. THICKNESS 0.064"
521.1018	APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH	2	EACH	
608.0318	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH	260	LF	
608.0324	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH	678	LF	
608.0330	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH	7	LF	
608.0415	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH	123	LF	
608.0512	STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH	650	LF	
609.0119	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 19X30-INCH	245	LF	
611.0420	RECONSTRUCTING MANHOLES	7	EACH	
611.0530	MANHOLE COVERS TYPE J	17	EACH	
611.0612	INLET COVERS TYPE C	1	EACH	
611.0624	INLET COVERS TYPE H	43	EACH	
611.0639	INLET COVERS TYPE H-S	6	EACH	
611.0642	INLET COVERS TYPE MS	6	EACH	
611.1105	CATCH BASINS 5-FT DIAMETER	2	EACH	
611.2004	MANHOLES 4-FT DIAMETER	5	EACH	
611.2005	MANHOLES 5-FT DIAMETER	1	EACH	
611.2006	MANHOLES 6-FT DIAMETER	6	EACH	
611.2008	MANHOLES 8-FT DIAMETER	1	EACH	
611.3230	INLETS 2x3-FT	45	EACH	
611.3901	INLETS MEDIAN 1 GRATE	4	EACH	
611.3902	INLETS MEDIAN 2 GRATE	2	EACH	
611.8110	ADJUSTING MANHOLE COVERS	11	EACH	
611.8115	ADJUSTING INLET COVERS	1	EACH	

532.0200.S
WALL MODULAR BLOCK GRAVITY

STREET	STATION	TO	STATION	532.0200.S SF
SOUTH BOULEVARD	129+50	-	133+30	900
SOUTH BOULEVARD	148+25	-	149+30	266
PROJECT TOTAL				1166

601.0110
CONCRETE CURB TYPE D

STREET	STATION	TO	STATION	LOCATION	601.0110 LF
SOUTH BOULEVARD	128+98	-	129+05	LT	10
SOUTH BOULEVARD	129+37	-	133+56	LT	425
PROJECT TOTAL					435

601.0411
CONCRETE CURB & GUTTER 30-INCH TYPE D

STREET	STATION	TO	STATION	LOCATION	601.0411 LF
SOUTH BOULEVARD	100+51	-	116+13	LT & RT	3033
SOUTH BOULEVARD	116+13	-	126+42	LT & RT	2092
SOUTH BOULEVARD	126+42	-	135+70	LT & RT	1872
SOUTH BOULEVARD	135+70	-	145+35	LT & RT	1916
SOUTH BOULEVARD	145+35	-	146+23	LT & RT	161
SOUTH BOULEVARD	146+23	-	149+62	LT & RT	682
SOUTH BOULEVARD	149+62	-	158+00	LT & RT	1674
INDUSTRIAL COURT	10+70	-	11+25	LT & RT	109
HITCHCOCK STREET	20+44	-	21+00	LT & RT	112
WALDO STREET	29+00	-	29+54	LT & RT	109
PROJECT TOTAL					11760

601.0600
CONCRETE CURB PEDESTRIAN

STREET	STATION	TO	STATION	LOCATION	601.0600 LF
SOUTH BOULEVARD	145+90	-	145+98	RT	8
UNDISTRIBUTED		-			50
PROJECT TOTAL					58

602.0410
CONCRETE SIDEWALK 5-INCH

STREET	STATION	TO	STATION	OFFSET	602.0410 SF
SOUTH BOULEVARD	100+51	-	116+13	LT & RT	14685
SOUTH BOULEVARD	116+13	-	126+42	LT & RT	9964
SOUTH BOULEVARD	126+42	-	135+70	LT & RT	3864
SOUTH BOULEVARD	135+70	-	145+35	LT & RT	3399
SOUTH BOULEVARD	145+35	-	146+23	LT & RT	787
SOUTH BOULEVARD	146+23	-	149+67	LT & RT	1239
SOUTH BOULEVARD	149+67	-	158+00	LT & RT	3280
PROJECT TOTAL					37218

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

602.0505
CURB RAMP DETECTABLE WARNING FIELD YELLOW

INTERSECTION	STATION	OFFSET	SF
INDUSTRIAL COURT	115+63.78	LT	8
	115+65.48	RT	8
	116+54.92	LT	8
MOORE STREET	126+21.69	RT	8
	126+62.59	RT	8
	126+75.03	RT	8
	126+74.99	LT	8
PATE STREET	135+45.92	RT	8
	135+94.84	RT	8
HITCHCOCK STREET	144+99.17	LT	8
	145+01.33	RT	8
	145+72.03	LT	8
WALDO STREET	145+99.49	RT	8
	146+44.82	RT	8
HIGHLAND DRIVE	149+37.15	RT	8
	149+84.48	RT	8
PROJECT TOTAL			128

RIPRAP & GEOTEXTILE FABRIC

STREET	STATION	TO	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE FABRIC TYPE HR SY
SOUTH BOULEVARD	112+88	-	113+00	LT	4	14
				PROJECT TOTALS	4	14

COVER PLATES TEMPORARY

STREET	STATION	OFFSET		611.8120.S EACH
South Boulevard	102+40.00	5.0'	LT	1
South Boulevard	110+50.00	6.0'	RT	1
South Boulevard	113+50.00	6.0'	RT	1
South Boulevard	115+42.00	6.0'	RT	1
South Boulevard	116+36.20	6.0'	RT	1
PROJECT TOTAL				5

STATION	TO	STATION	LOCATION	PIPE UNDERDRAIN WRAPPED 5-INCH 612.0406 LF	GEOTEXTILE FABRIC TYPE DF, SCHEDULE B 645.0112 SY
118+55	-	122+50	LT	395	176
118+55	-	122+50	RT	395	176
132+12	-	135+40	LT	328	146
132+12	-	135+40	RT	328	146
PROJECT TOTAL				1445	643

* ANY AND ALL CONNECTIONS BETWEEN THE PROPOSED UNDERDRAIN AND EXISTING AND PROPOSED DRAINAGE STRUCTURES ARE CONSIDERED INCIDENTAL TO THE PIPE UNDERDRAIN BID ITEM.

620.0300
CONCRETE MEDIAN SLOPED NOSE

STREET	STATION	LOCATION	620.0300 SF
SOUTH BOULEVARD	102+43	RT	14
PROJECT TOTAL			14

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EROSION CONTROL

STREET	STATION	TO	STATION	LOCATION	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	SPV.0180.01 GEOTEXTILE FABRIC, TYPE FF SY
SOUTH BOULEVARD	100+51	-	116+13	RT & LT	0	1060	1060	0	0	3	14	110	4	0
SOUTH BOULEVARD	116+13	-	126+42	RT & LT	0	867	867	0	0	3	7	20	0	0
SOUTH BOULEVARD	126+42	-	135+70	RT & LT	0	0	0	0	0	1	14	0	0	0
SOUTH BOULEVARD	135+70	-	145+35	RT & LT	0	0	0	0	0	0	9	0	0	0
SOUTH BOULEVARD	145+35	-	146+23	RT & LT	0	66	66	0	0	0	2	0	0	0
SOUTH BOULEVARD	146+23	-	149+62	RT & LT	0	96	96	0	0	0	3	0	0	0
SOUTH BOULEVARD	149+62	-	158+00	RT & LT	0	390	390	0	0	0	4	0	0	0
INDUSTRIAL COURT	10+70	-	11+25	RT & LT	0	150	150	0	0	0	0	0	0	0
HITCHCOCK STREET	20+44	-	21+00	RT & LT	0	29	29	0	0	0	1	0	0	0
WALDO STREET	29+00	-	29+54	RT & LT	0	0	0	0	0	0	0	0	0	0
UNDISTRIBUTED					30	350	350	3	3	0	0	0	0	50
				PROJECT TOTALS	30	3008	3008	3	3	7	54	130	4	50

LANDSCAPING

STREET	STATION	TO	STATION	LOCATION	624.0100 WATER MGAL	625.0100 TOPSOIL S.Y.	629.0210 FERTILIZER TYPE B Cwt	630.0200 SEEDING TEMPORARY LB	630.0300 SEEDING BORROW PIT LB	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY
SOUTH BLVD	102+15		115+75	LT	0	0	0.00	170	0	0	0
SOUTH BLVD	100+51		116+13	LT & RT	51	5350	3.37	0	0	32	5350
SOUTH BLVD	116+13	-	126+42	LT & RT	34	2582	1.63	0	0	16	2582
SOUTH BLVD	126+42	-	135+70	LT & RT	30	1482	0.93	0	0	9	1482
SOUTH BLVD	135+70	-	145+35	LT & RT	32	739	0.47	0	0	4	739
SOUTH BLVD	145+35	-	146+23	LT & RT	3	76	0.05	0	0	1	76
SOUTH BLVD	146+23	-	149+62	LT & RT	11	335	0.21	0	0	2	335
SOUTH BLVD	149+62	-	158+00	LT & RT	27	766	0.48	0	0	5	766
INDUSTRIAL	10+70	-	11+25	LT & RT	2	118	0.07	0	0	1	118
HITCHCOCK	20+44	-	21+02	LT & RT	1	20	0.01	0	0	0	20
WALDO	28+95	-	29+54	LT & RT	1	30	0.02	0	0	0	30
WASTE SITE / UNDISTRIBUTED					7	333	0.21	15	15	2	333
PROJECT TOTAL					199	11831	7.45	185	15	71	11831

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TYPE II SIGNS

SIGN NO.	LOCATION	SIGN CODE	MESSAGE	SIZE	634.0612 POSTS WOOD 4X6-INCH X 12 FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14 FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16 FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS TYPE II EACH	REMARKS
1-2	SOUTH BOULEVARD RT	R5-1A	WRONG WAY	36 X 24	-	1	-	6.00	-	-	-	
1-5	SOUTH BOULEVARD LT	J1-2	USH 12/CTH W	48 X 45	-	-	1	15.00	-	-	-	
1-7	SOUTH BOULEVARD RT	J4-2	USH 12/CTH W	48 X 36	-	-	1	12.00	-	-	-	
1-8	SOUTH BOULEVARD RT	R5-1	DO NOT ENTER	30 X 30	-	-	-	6.25	-	-	-	
1-9	SOUTH BOULEVARD LT	R4-7	KEEP RIGHT	24 X 30	-	1	-	5.00	-	-	-	
1-13	SOUTH BOULEVARD RT	R7-1D	NO PARKING ANYTIME	18 X 24	-	1	-	3.00	-			
1-14	SOUTH BOULEVARD LT	W3-3	SIGNAL AHEAD	36 X 36	-	-	1	-	9.00	-	-	
1-15	SOUTH BOULEVARD RT	R2-1	SPEED LIMIT 35	24 X 30	-	1	-	5.00	-	-	-	
1-16	SOUTH BOULEVARD LT	J1-1	JCT/USH 12	24 X 39	-	1	-	6.50	-	-	-	
1-19	SOUTH BOULEVARD RT	R7-1R	NO PARKING ANY TIME	18 X 24	-	1	-	3.00	-			
1-20	SOUTH BOULEVARD LT	R7-1L	NO PARKING ANY TIME	18 X 24	-	1	-	3.00	-			
2-1	SOUTH BOULEVARD LT	R2-1	SPEED LIMIT 35	24 X 30	-	1	-	5.00	-	-	-	
2-3	SOUTH BOULEVARD RT		SAUK COUNTY SHERIFF'S DEPARTMENT	X	-	-	-	-	-	1	1	
2-5	INDUSTRIAL COURT LT	R1-1	STOP	30 X 30	-	1	-	5.18	-			
2-6	SOUTH BOULEVARD LT		SAUK COUNTY SHERIFF'S DEPARTMENT	X	-	-	-	-	-	1	1	
2-7	SOUTH BOULEVARD RT	R2-1	SPEED LIMIT 35	24 X 30	-	1	-	5.00	-	-	-	
2-9	SOUTH BOULEVARD RT		BARABOO POPULATION 11,505	X	-	-	-	-	-	1	1	
			BUCKLE UP	X	-	-	-	-	-	1	-	
			CALL SAUK CO.	X	-	-	-	-	-	1	-	
3-1	SOUTH BOULEVARD RT		ALTERNATE SIDE PARKING	X	-	-	-	-	-	1	1	
			NO ENGINE BRAKING	X	-	-	-	-	-	1	-	
3-2	SOUTH BOULEVARD RT	R7-51L	NO PARKING HERE TO CORNER	18 X 24	-	1	-	3.00	-			
3-3	SOUTH BOULEVARD RT		PEDDLER AND SOLICITER LICENSING REQUIRED	X	-	-	-	-	-	1	1	
			NO PARKING SEMIS IN RESIDENTIAL DISTRICT	X	-	-	-	-	-	1	-	
			24 HOUR PARKING LIMIT ENFORCED	X	-	-	-	-	-	1	-	
			THIS IS A D.A.R.E. COMMUNITY	X	-	-	-	-	-	1	-	
3-4	SOUTH BOULEVARD LT	R2-1	SPEED LIMIT 35	24 X 30	-	1	-	5.00	-	-	-	
3-5	SOUTH BOULEVARD LT	M1-5A	CTH W	24 X 24	-	1	-	4.00	-	-	-	
3-7	MOORE STREET RT	R1-1	STOP	30 X 30	-	1	-	5.18	-	-	-	
3-9	SOUTH BOULEVARD RT	W11-2	PEDESTRIAN CROSSING	30 X 30	-	-	1	-	6.25	-	-	FLUORESCENT SIGN
3-10		W16-7L	DIAGONAL LEFT ARROW	24 X 12	-	-	-	-	2.00	-	-	FLUORESCENT SIGN
3-11	SOUTH BOULEVARD LT	W11-2	PEDESTRIAN CROSSING	30 X 30	-	-	1	-	6.25	-	-	FLUORESCENT SIGN
3-12		W16-7L	DIAGONAL LEFT ARROW	24 X 12	-	-	-	-	2.00	-	-	FLUORESCENT SIGN
3-15	SOUTH BOULEVARD RT	R2-1	SPEED LIMIT 35	24 X 30	-	1	-	5.00	-	-	-	
3-16	SOUTH BOULEVARD RT	R7-51R	NO PARKING HERE TO CORNER	18 X 24	-	1	-	3.00	-			
3-18	SOUTH BOULEVARD RT		CIRCUS WORLD	X	-	-	-	-	-	1	1	
			STRAIGHT AHEAD	X	-	-	-	-	-	1	-	
3-19	SOUTH BOULEVARD RT	R7-51L	NO PARKING HERE TO CORNER	18 X 24	-	1	-	3.00	-			
4-1	PATTE STREET RT	R1-1	STOP	30 X 30	-	1	-	5.18	-	-	-	
4-3	SOUTH BOULEVARD RT	R2-1	SPEED LIMIT 30	24 X 30	-	1	-	5.00	-	-	-	
4-4	SOUTH BOULEVARD LT	R2-1	SPEED LIMIT 35	24 X 30	-	1	-	5.00	-	-	-	
4-6	SOUTH BOULEVARD LT	R7-1R	NO PARKING ANYTIME	18 X 24	-	1	-	3.00	-			
4-9	SOUTH BOULEVARD LT	R7-1D	NO PARKING ANYTIME	18 X 24	-	1	-	3.00	-			
4-11	SOUTH BOULEVARD LT	R2-1	SPEED LIMIT 30	24 X 30	-	1	-	5.00	-	-	-	
4-12	SOUTH BOULEVARD RT	R7-51L	NO PARKING HERE TO CORNER	18 X 24	-	1	-	3.00	-			
4-14	SOUTH BOULEVARD RT	W11-2	PEDESTRIAN CROSSING	30 X 30	-	-	1	-	6.25	-	-	FLUORESCENT SIGN
4-15		WF16-7L	DIAGONAL LEFT ARROW	24 X 12	-	-	-	-	2.00	-	-	FLUORESCENT SIGN
4-16	SOUTH BOULEVARD LT	W11-2	PEDESTRIAN CROSSING	30 X 30	-	-	1	-	6.25	-	-	FLUORESCENT SIGN
4-17		WF16-7L	DIAGONAL LEFT ARROW	24 X 12	-	-	-	-	2.00	-	-	FLUORESCENT SIGN
4-19	HITCHCOCK STREET LT	R1-1	STOP	30 X 30	-	1	-	5.18	-	-	-	
4-20	WALDO STREET RT	R1-1	STOP	30 X 30	-	1	-	5.18	-	-	-	
4-23	SOUTH BOULEVARD RT	R9-3A	NO PEDESTRIANS	18 X 18	-	-	-	2.25	-	-	-	
4-24	SOUTH BOULEVARD RT	R9-3BL	USE CROSSWALK	18 X 12	1	-	-	1.50	-	-	-	
5-2	SOUTH BOULEVARD RT	R2-1	SPEED LIMIT 30	24 X 30	-	1	-	5.00	-	-	-	
5-4	SOUTH BOULEVARD LT	R7-51L	NO PARKING HERE TO CORNER	18 X 24	-	1	-	3.00	-			
5-5	HIGHLAND DRIVE RT	R1-1	STOP	30 X 30	-	1	-	5.18	-	-	-	
5-7	SOUTH BOULEVARD LT	R2-1	SPEED LIMIT 30	24 X 30	-	1	-	5.00	-	-	-	
5-8	SOUTH BOULEVARD RT	R2-1	SPEED LIMIT 30	24 X 30	-	1	-	5.00	-	-	-	
5-11	SOUTH BOULEVARD RT	R7-51L	NO PARKING HERE TO CORNER	18 X 24	-	1	-	3.00	-			
5-12	SOUTH BOULEVARD LT	R7-51L	NO PARKING HERE TO CORNER	18 X 24	-	1	-	3.00	-			
			TOTAL		1	33	7	180.58	42.00	13	6	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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EXISTING SIGNS

SIGN NO.	LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1-1	SOUTH BOULEVARD	1	1	USH 12
1-1	SOUTH BOULEVARD	1	-	DOUBLE ARROW
1-1	SOUTH BOULEVARD	1	-	CTH W
1-1	SOUTH BOULEVARD	1	-	ARROW
1-4	SOUTH BOULEVARD	1	1	END DIVIDED HIGHWAY
1-5	SOUTH BOULEVARD	1	-	WRONG WAY
1-7	SOUTH BOULEVARD	1	1	BUSINESS
1-7	SOUTH BOULEVARD	1	-	HWY 12
1-7	SOUTH BOULEVARD	1	-	COUNTY HWY W
1-11	SOUTH BOULEVARD	1	1	KEEP RIGHT
1-12	SOUTH BOULEVARD	1	1	TWO WAY TRAFFIC
1-13	SOUTH BOULEVARD	1	-	DO NOT ENTER
1-17	SOUTH BOULEVARD	1	1	JCT
1-17	SOUTH BOULEVARD	1	-	USH 12
1-21	SOUTH BOULEVARD	1	1	SIGNAL AHEAD
2-2	SOUTH BOULEVARD	1	1	SPEED LIMIT
2-4	SOUTH BOULEVARD	1	1	STOP SIGN
2-8	SOUTH BOULEVARD	1	1	SPEED LIMIT
3-6	SOUTH BOULEVARD	1	1	COUNTY HWY W
3-8	SOUTH BOULEVARD	1	1	STOP SIGN
3-13	SOUTH BOULEVARD	1	1	SPEED LIMIT
3-14	SOUTH BOULEVARD	1	1	SPEED LIMIT
3-17	SOUTH BOULEVARD	1	1	SPEED LIMIT
3-20	SOUTH BOULEVARD	1	1	SPEED LIMIT
4-2	SOUTH BOULEVARD	1	1	STOP SIGN
4-5	SOUTH BOULEVARD	1	1	SPEED LIMIT
4-7	SOUTH BOULEVARD	1	1	NO PARKING
4-8	SOUTH BOULEVARD	1	1	NO PARKING
4-10	SOUTH BOULEVARD	1	1	30 MIN PARKING BETWEEN SIGNS
4-13	SOUTH BOULEVARD	1	1	SPEED LIMIT
4-18	SOUTH BOULEVARD	1	1	STOP SIGN
4-21	SOUTH BOULEVARD	1	1	STOP SIGN
4-22	SOUTH BOULEVARD	1	1	SPEED LIMIT
5-1	SOUTH BOULEVARD	1	1	NO PARKING
5-3	SOUTH BOULEVARD	1	1	NO PARKING
5-4	SOUTH BOULEVARD	1	1	STOP SIGN
5-9	SOUTH BOULEVARD	1	1	SPEED LIMIT
5-10	SOUTH BOULEVARD	1	1	SPEED LIMIT
5-13	SOUTH BOULEVARD	1	1	NO PARKING
PROJECT TOTAL		39	31	

REMOVING PAVEMENT MARKINGS

STREET	STATION	TO	STATION	LOCATION	646.0600 LF
SOUTH BOULEVARD	102+40	-	103+75	C/L	225
SOUTH BOULEVARD	103+75	-	115+50	LT	1175
SOUTH BOULEVARD	117+10	-	120+55	LT	345
SOUTH BOULEVARD	121+15	-	126+05	LT	490
PROJECT TOTAL					2235

TRAFFIC CONTROL

STAGE	LOCATION	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE 'A' DAYS	643.0715 WARNING LIGHTS TYPE 'C' DAYS	643.0900 SIGNS DAYS	643.0920 COVERING SIGNS TYPE II EACH	643.1050 SIGNS PCMS DAYS	649.0100 TEMPORARY PAVEMENT MARKING 4-INCH LF	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH LF	649.0801 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH LF
PRE-STAGE 1	SOUTH BOULEVARD	735	30	60	--	240	--	--	--	--	--
STAGE 1A	SOUTH BOULEVARD	6660	540	1080	720	1980	--	--	5800	40	70
STAGE 1B	SOUTH BOULEVARD	3256	264	528	352	968	--	48	5800	40	--
STAGE 2A	SOUTH BOULEVARD	1650	130	260	30	400	--	--	6950	--	--
STAGE 2B	SOUTH BOULEVARD	1650	120	240	30	400	--	--	1920	60	--
STAGE 2C	SOUTH BOULEVARD	6600	480	960	--	1440	--	--	--	--	--
	UNDISTRIBUTED	--	--	--	--	--	5	--	--	--	--
PROJECT TOTAL		20551	1564	3128	1132	5428	5	48	20470	140	70

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PAVEMENT MARKING

LOCATION	STATION	TO	STATION	646.0106 EPOXY 4-INCH WHITE LF	646.0106 EPOXY 4-INCH YELLOW LF	646.0126 EPOXY 8-INCH WHITE LF	647.0166 ARROWS EPOXY TYPE 2 EACH	647.0356 WORDS EPOXY EACH	647.0566 STOP LINE EPOXY 18-INCH LF	647.0606 ISLAND NOSE EPOXY EACH	647.0726 DIAGONAL EPOXY 12-INCH YELLOW LF	647.0766 CROSSWALK EPOXY 6-INCH LF
SOUTH BLVD	100+51	-	116+13	3149	4497	202	2	2	38	1	195	91
SOUTH BLVD	116+13	-	126+42	1965	2238	-	-	-	-	-	-	33
SOUTH BLVD	126+42	-	135+70	1750	1856	-	-	-	16	-	-	156
SOUTH BLVD	135+70	-	145+35	1853	2080	-	-	-	16	-	-	137
SOUTH BLVD	145+35	-	146+23	102	89	-	-	-	-	-	-	-
SOUTH BLVD	146+23	-	149+62	610	808	-	-	-	-	-	-	39
SOUTH BLVD	149+62	-	158+00	1645	1676	-	-	-	30	-	-	34
INDUSTRIAL CT	10+70	-	11+25	-	-	-	-	-	33	-	-	155
HITCHCOCK ST	20+44	-	21+00	-	-	-	-	-	25	-	-	117
WALDO ST	29+00	-	29+54	-	-	-	-	-	15	-	-	74
				11074	13244	202	2	2	173	1	195	836
PROJECT TOTAL				24318		202	2	2	173	1	195	836

CONSTRUCTION STAKING

ITEM	DESCRIPTION	LOCATION	QUANTITY	UNIT	CATEGORY
650.4000	CONSTRUCTION STAKING STORM SEWER SYSTEM	SOUTH BLVD (STA 101+25 - STA 158+00, LT & RT)	68	EACH	0010
650.4500	CONSTRUCTION STAKING SUBGRADE	SOUTH BLVD (STA 101+25 - STA 158+00), INDUSTRIAL CT (STA 10+25 - 11+25), BADGER DR (STA 20+25 - 21+00), HIGHLAND DR (STA 29+00 - 29+75)	5925	LF	0010
650.5000	CONSTRUCTION STAKING BASE	SOUTH BLVD (STA 101+25 - STA 158+00), INDUSTRIAL CT (STA 10+25 - 11+25), BADGER DR (STA 20+25 - 21+00), HIGHLAND DR (STA 29+00 - 29+75)	5925	LF	0010
650.5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	SOUTH BLVD (STA 100+75 - 158+00, RT & STA 101+25 - 158+00, LT)	12203	LF	0010
650.6000	CONSTRUCTION STAKING PIPE CULVERTS	CONSTRUCTION STAKING PIPE CULVERTS (STA 112+62, LT)	1	EACH	0010
650.8500	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (5988-00-70)	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT 5988-00-70)	1	LS	0020
650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (5988-00-70)	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT 5988-00-70)	1	LS	0010
650.9920	CONSTRUCTION STAKING SLOPE STAKES	SOUTH BLVD (STA 101+25 - STA 158+00), INDUSTRIAL CT (STA 10+25 - 11+25), BADGER DR (STA 20+25 - 21+00), HIGHLAND DR (STA 29+00 - 29+75)	5925	LF	0010

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

ELECTRICAL

LOCATION				652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	653.0140 PULL BOXES STEEL 24X42-INCH	654.0105 CONCRETE BASES TYPE 5	654.0200 CONCRETE CONTROL CABINET BASES TYPE 6	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG	656.0200 ELECTRIC SERVICE METER BREAKER PEDESTAL	SPV.0060.01 POLE ASSEMBLY 30-FT	SPV.0060.02 LED LUMINAIRE 140 LED	SPV.0060.04 LIGHTING CONTROL CABINET
FROM		TO													
ID	STATION	ID	STATION	LF	EACH	EACH	EACH	LF	LF	LF	LF	LS	EACH	EACH	EACH
ES-1	STA. 115+57.5 (35LT)	PB-1-1-1	STA. 115+48 (35LT)	6	---	---	1	---	6	18	---	1	---	---	1
PB-1-1-1	STA. 115+48 (35LT)	Pole-1-1	STA. 115+45 (35LT)	2	1	1	---	108	---	6	---	---	1	1	---
Pole-1-1	STA. 115+45 (35LT)	Pole-1-2	STA. 114+21 (26LT)	124	---	1	---	108	---	372	---	---	1	1	---
Pole-1-2	STA. 114+21 (26LT)	Pole-1-3	STA. 113+02 (26LT)	119	---	1	---	108	---	357	---	---	1	1	---
Pole-1-3	STA. 113+02 (26LT)	Pole-1-4	STA. 111+66 (26LT)	136	---	1	---	108	---	408	---	---	1	1	---
Pole-1-4	STA. 111+66 (26LT)	Pole-1-5	STA. 110+26 (26LT)	140	---	1	---	108	---	420	---	---	1	1	---
Pole-1-5	STA. 110+26 (26LT)	Pole-1-6	STA. 109+17 (26LT)	109	---	1	---	108	---	327	---	---	1	1	---
Pole-1-6	STA. 109+17 (26LT)	Pole-1-7	STA. 108+04 (26LT)	113	---	1	---	108	---	339	---	---	1	1	---
Pole-1-7	STA. 108+04 (26LT)	Pole-1-8	STA. 106+86 (26LT)	113	---	1	---	108	---	339	---	---	1	1	---
Pole-1-8	STA. 106+86 (26LT)	Pole-1-9	STA. 105+84 (26LT)	107	---	1	---	108	---	321	---	---	1	1	---
Pole-1-9	STA. 105+84 (26LT)	Pole-1-10	STA. 104+55 (26LT)	129	---	1	---	108	---	387	---	---	1	1	---
Pole-1-10	STA. 104+55 (26LT)	Pole-1-11	STA. 103+19 (26LT)	136	---	1	---	108	---	408	---	---	1	1	---
Pole-1-11	STA. 103+19 (26LT)	PB-1-1-2	STA. 101+31 (28LT)	188	---	---	---	---	---	564	---	---	---	---	---
PB-1-1-2	STA. 101+31 (28LT)	PB-1-1-3	STA. 101+31 (22RT)	50	1	---	---	---	50	150	---	---	---	---	---
PB-1-1-3	STA. 101+31 (22RT)	Pole-1-12	STA. 101+35 (22RT)	4	1	1	---	108	4	12	---	---	1	1	---
Pole-1-12	STA. 101+35 (22RT)	Pole-1-13	STA. 102+20 (17.5RT)	85	---	1	---	108	---	255	---	---	1	1	---
ES-1	STA. 115+57.5 (35LT)	PB-1-2-1	STA. 115+68 (35LT)	8	---	---	---	---	8	24	---	---	---	---	---
PB-1-2-1	STA. 115+68 (35LT)	PB-1-2-2	STA. 116+47 (37LT)	77	1	---	---	---	---	231	---	---	---	---	---
PB-1-2-2	STA. 116+47 (37LT)	Pole-2-1	STA. 116+40 (46LT)	10	1	1	---	108	10	60	---	---	1	1	---
PB-1-2-2	STA. 116+47 (37LT)	Pole-2-2	STA. 117+15 (35LT)	67	---	1	---	108	---	201	---	---	1	1	---
Pole-2-2	STA. 117+15 (35LT)	Pole-2-3	STA. 118+55 (35LT)	140	---	1	---	108	---	420	---	---	1	1	---
Pole-2-3	STA. 118+55 (35LT)	Pole-2-4	STA. 119+95 (35LT)	140	---	1	---	108	---	420	---	---	1	1	---
Pole-2-4	STA. 119+95 (35LT)	Pole-2-5	STA. 121+35 (35LT)	140	---	1	---	108	---	420	---	---	1	1	---
Pole-2-5	STA. 121+35 (35LT)	Pole-2-6	STA. 122+75 (35LT)	140	---	1	---	108	---	420	---	---	1	1	---
Pole-2-6	STA. 122+75 (35LT)	Pole-2-7	STA. 124+16 (34LT)	141	---	1	---	108	---	423	---	---	1	1	---
Pole-2-7	STA. 124+16 (34LT)	Pole-2-8	STA. 125+65 (34LT)	149	---	1	---	108	---	447	---	---	1	1	---
ES-2	STA. 134+17 (33LT)	PB-2-1-1	STA. 134+11 (32.5LT)	3	---	---	1	---	12	---	---	1	---	---	1
PB-2-1-1	STA. 134+11 (32.5LT)	Pole-1-1	STA. 133+96 (32.5LT)	14	1	1	---	108	42	---	---	---	1	1	---
Pole-1-1	STA. 133+96 (32.5LT)	Pole-1-2	STA. 132+54 (32.5LT)	142	---	1	---	108	426	---	---	---	1	1	---
Pole-1-2	STA. 132+54 (32.5LT)	Pole-1-3	STA. 131+13 (32.5LT)	141	---	1	---	108	423	---	---	---	1	1	---
Pole-1-3	STA. 131+13 (32.5LT)	Pole-1-4	STA. 129+76 (32.5LT)	137	---	1	---	108	411	---	---	---	1	1	---
Pole-1-4	STA. 129+76 (32.5LT)	Pole-1-5	STA. 128+36 (32.5LT)	140	---	1	---	108	420	---	---	---	1	1	---
Pole-1-5	STA. 128+36 (32.5LT)	Pole-1-6	STA. 127+14 (34LT)	122	---	1	---	108	366	---	---	---	1	1	---
ES-2	STA. 134+17 (33LT)	PB-2-2-1	STA. 134+23 (25LT)	8	---	---	---	---	8	24	---	---	---	---	---
PB-2-2-1	STA. 134+23 (25LT)	Pole-2-1	STA. 135+26 (25.5LT)	102	1	1	---	108	---	306	---	---	1	1	---
Pole-2-1	STA. 135+26 (25.5LT)	Pole-2-2	STA. 136+76 (25.5LT)	150	---	1	---	108	---	450	---	---	1	1	---
Pole-2-2	STA. 136+76 (25.5LT)	Pole-2-3	STA. 138+29 (25.5LT)	153	---	1	---	108	---	459	---	---	1	1	---
Pole-2-3	STA. 138+29 (25.5LT)	Pole-2-4	STA. 139+61 (25.5LT)	132	---	1	---	108	---	396	---	---	1	1	---
Pole-2-4	STA. 139+61 (25.5LT)	Pole-2-5	STA. 140+90 (25.5LT)	129	---	1	---	108	---	387	---	---	1	1	---
Pole-2-5	STA. 140+90 (25.5LT)	Pole-2-6	STA. 142+28 (25.5LT)	136	---	1	---	108	---	408	---	---	1	1	---
Pole-2-6	STA. 142+28 (25.5LT)	Pole-2-7	STA. 143+59 (25.5LT)	129	---	1	---	108	---	387	---	---	1	1	---
Pole-2-7	STA. 143+59 (25.5LT)	Pole-2-8	STA. 144+90 (36LT)	134	---	1	---	108	---	402	---	---	1	1	---
ES-3	STA. 158+92 (40.5LT)	PB-3-1-1	STA. 158+98 (26LT)	---	---	---	---	---	---	---	42	---	---	---	---
PB-3-1-1	STA. 158+98 (26LT)	PB-3-1-2	STA. 158+98.5 (26RT)	---	---	---	---	---	---	---	156	---	---	---	---
PB-3-1-2	STA. 158+98.5 (26RT)	Pole-1-1	STA. 159+05 (26RT)	---	---	---	---	---	---	---	42	---	---	---	---
PB-3-1-2	STA. 158+98.5 (26RT)	Pole-1-2	STA. 157+55 (26RT)	144	---	1	---	108	---	---	432	---	1	1	---
Pole-1-2	STA. 157+55 (26RT)	Pole-1-3	STA. 156+15 (26RT)	140	---	1	---	108	---	---	420	---	1	1	---
Pole-1-3	STA. 156+15 (26RT)	Pole-1-4	STA. 154+75 (26RT)	140	---	1	---	108	---	---	420	---	1	1	---
Pole-1-4	STA. 154+75 (26RT)	Pole-1-5	STA. 153+35 (26RT)	140	---	1	---	108	---	---	420	---	1	1	---
Pole-1-5	STA. 153+35 (26RT)	Pole-1-6	STA. 151+97 (26RT)	138	---	1	---	108	---	---	414	---	1	1	---
Pole-1-6	STA. 151+97 (26RT)	Pole-1-7	STA. 150+55 (26RT)	142	---	1	---	108	---	---	426	---	1	1	---
Pole-1-7	STA. 150+55 (26RT)	PB-3-1-3	STA. 149+91 (26RT)	64	---	---	---	---	64	---	192	---	---	---	---
PB-3-1-3	STA. 149+91 (26RT)	PB-3-1-4	STA. 149+29 (26RT)	62	1	---	---	---	---	---	186	---	---	---	---
PB-3-1-4	STA. 149+29 (26RT)	Pole-1-8	STA. 149+17 (26RT)	12	1	1	---	108	12	---	36	---	1	1	---
Pole-1-8	STA. 149+17 (26RT)	Pole-1-9	STA. 147+75 (26RT)	142	---	1	---	108	---	---	426	---	1	1	---
Pole-1-9	STA. 147+75 (26RT)	Pole-1-10	STA. 146+55 (26RT)	122	---	1	---	108	---	---	366	---	1	1	---
		TOTALS		5591	9	44	2	4752	2262	10968	3978	2	44	44	2

ALL ITEMS ON THIS PAGE ARE CATEGORY 0020

3

652.0240
CONDUIT RIGID NONMETALLIC SCHEDULE 40 4-INCH

LOCATION	STATION	OFFSET		STATION	OFFSET	652.0240 LF
SOUTH BOULEVARD	120+63.00	40' LT	-	121+06.00	40' LT	43
SOUTH BOULEVARD	120+63.00	40.5' LT	-	121+06.00	40.5' LT	43
PROJECT TOTAL						86

653.0105
PULL BOXES STEEL 12x24-INCH

STREET	PB. NO.	STATION	OFFSET	EACH
SOUTH BOULEVARD	PB2	101+50	19.3'RT	1
			TOTAL:	1

653.0905
REMOVING PULL BOX

STREET	PB. NO.	STATION	OFFSET	EACH
SOUTH BOULEVARD	PB2	101+50	19.3'RT	1
			TOTAL:	1

3

CONDUIT LOOP DETECTOR
LOOP DETECTOR WIRE

LOOP NO.	HOME RUN PB	STATION	LOCATION	SIZE	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0800 LOOP DETECTOR WIRE L.F.
81	PB2	101+50.00	11.0' LT	6x20'	3	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	73	196
						TOTALS	73	196

* STATION AND LOCATION IS TO FRONT CENTER OF DETECTION LOOP
** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

690.0150
SAWING ASPHALT

STREET	STATION	TO	STATION	690.0150 L.F.
SOUTH BOULEVARD	100+50.87	-	116+12.56	108
SOUTH BOULEVARD	116+12.56	-	126+42.17	167
SOUTH BOULEVARD	126+42.17	-	135+70.25	516
SOUTH BOULEVARD	135+70.25	-	145+35.00	736
SOUTH BOULEVARD	145+35.00	-	146+23.00	123
SOUTH BOULEVARD	146+23.00	-	149+62.08	87
SOUTH BOULEVARD	149+62.08	-	158+00.00	864
INDUSTRIAL COURT	10+70.43	-	11+25.00	47
HITCHCOCK STREET	20+44.07	-	21+00.00	144
WALDO STREET	29+00.00	-	29+54.44	50
			PROJECT TOTAL	2842

690.0250
SAWING CONCRETE

STREET	STATION	TO	STATION	690.0250 LF	LOCATION
SOUTH BOULEVARD	100+51	-	116+13	1190	EX. CONCRETE SUBGRADE
SOUTH BOULEVARD	116+13	-	126+42	1029	EX. CONCRETE SUBGRADE
SOUTH BOULEVARD	126+42	-	135+70	928	EX. CONCRETE SUBGRADE
SOUTH BOULEVARD	135+70	-	145+35	965	EX. CONCRETE SUBGRADE
SOUTH BOULEVARD	145+35	-	146+23	25	EX. CONCRETE SUBGRADE
			PROJECT TOTAL	4137	

ADJUSTING SANITARY MANHOLES

CATEGORY 0030
SPV.0060.05

STATION	OFFSET	EACH	EXIST. RIM ELEV.	PROP. RIM ELEV.	COMMENTS
107+48.40	27.3' LT	1	933.42	933.85	ADJ FOR TEMP WIDENING
109+61.40	28.3' LT	1	927.35	927.46	ADJ FOR TEMP WIDENING
113+60.90	27.6' LT	1	903.71	904.21	ADJ FOR TEMP WIDENING
107+48.40	27.3' LT	1	933.85	933.06	
109+61.40	28.3' LT	1	927.46	927.12	
119+59.10	25.8' LT	1	888.29	888.45	
123+08.10	27.1' LT	1	887.02	887.53	
127+19.40	24.9' RT	1	884.38	884.86	
129+07.80	24.3' LT	1	880.81	880.50	
131+57.70	19.8' LT	1	876.63	877.24	
133+19.00	23.6' RT	1	876.03	876.57	
134+16.70	19.1' LT	1	875.32	875.60	
135+77.30	22.6' RT	1	876.18	876.18	
136+17.60	20.8' LT	1	876.3	876.55	
136+18.00	22.5' RT	1	876.84	876.56	
139+47.60	20.5' RT	1	880.87	880.57	
144+91.50	18.1' RT	1	884.78	884.39	
20+63.6	7.1' RT	1	880.58	880.78	
146+29.30	30.7' RT	1	883.76	883.28	
146+44.70	19.0' RT	1	882.82	882.46	
149+73.60	15.4' RT	1	869.59	869.19	
152+37.10	15.2' RT	1	862.44	861.82	
PROJECT TOTAL		22			

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

RECONSTRUCTING SANITARY MANHOLES

CATEGORY 0030
SPV.0060.06

STATION	OFFSET	EACH	EXIST. RIM ELEV.	PROP. RIM ELEV.	COMMENTS
113+60.90	27.6' LT	1	903.71	907.41	
116+12.20	25.5' LT	1	893.05	894.53	
123+78.30	25.2' RT	1	888.2	887.11	
125+26.70	24.1' RT	1	887.33	886.32	
126+45.80	25.2' LT	1	886.78	885.75	
129+93.10	22.9' RT	1	878.99	879.05	ROTATE COVER BEHIND CURB
140+84.50	23.1' RT	1	882.24	882.40	ROTATE COVER BEHIND CURB
155+36.90	14.4' RT	1	854.94	853.97	
PROJECT TOTAL		8			

ADJUSTING HYDRANTS

CATEGORY 0030
SPV.0060.09

STATION	OFFSET	PROP. GRADE	EACH	COMMENTS
107+54.90	26.1' LT	932.92	1	TEMPORARY EXTEND PIPE 10 FEET FOR STAGE 1 TRAFFIC
113+11.20	25.9' LT	909.83	1	TEMPORARY EXTEND PIPE 10 FEET FOR STAGE 1 TRAFFIC
103+34.20	24.8' LT	932.49	1	TEMPORARY CAP IN PRE-STAGE 1. REINSTALL HYDRANT IN STAGE 2
107+54.90	26.1' LT	932.92	1	REMOVE TEMPORARY 10 FOOT EXTENSION INSTALLED IN PRE-STAGE1
110+09.40	26.4' LT	924.90	1	TEMPORARY CAP IN PRE-STAGE 1. REINSTALL HYDRANT IN STAGE 2
113+11.20	25.9' LT	909.83	1	REMOVE TEMPORARY 10 FOOT EXTENSION INSTALLED IN PRE-STAGE1, ADD 42" VERTICAL EXTENSION
115+67.40	44.3' LT	895.67	1	ADD 36" VERTICAL EXTENSION
119+45.00	25.1' LT	888.58	1	ADD 18" VERTICAL EXTENSION
123+21.50	23.8' LT	887.40	1	EXTEND PIPE 2 FEET, ADD 12" VERTICAL EXTENSION
139+72.00	23.4' RT	881.25	1	EXTEND PIPE 3 FEET
145+51.90	39.1' LT	882.44	1	EXTEND PIPE 15 FEET
PROJECT TOTAL			11	

ADJUSTING WATER VALVES

CATEGORY 0030
SPV.0060.07

STATION	OFFSET	EACH	REMARKS
107+51.80	19.8' LT	1	ADJ FOR TEMP WIDENING
110+55.60	25.9' LT	1	ADJ FOR TEMP WIDENING
101+62.50	19.9' LT	1	
101+64.50	17.6' LT	1	
101+70.00	19.9' LT	1	
107+51.80	19.8' LT	1	
110+55.60	25.9' LT	1	
115+76.50	18.2' LT	1	
115+81.20	22.2' LT	1	
115+84.80	18.6' LT	1	
126+54.40	11.1' LT	1	
126+57.40	17.6' RT	1	
126+57.50	11.2' RT	1	
126+60.50	14.3' RT	1	
127+40.60	35.8' RT	1	
129+27.80	17.6' RT	1	
137+06.00	31.2' RT	1	
138+17.40	25.1' RT	1	
139+72.50	17.1' RT	1	
140+57.40	19.7' RT	1	
145+28.10	23.5' RT	1	
145+31.80	18.6' RT	1	
145+32.90	30.0' RT	1	
149+41.50	37.9' RT	1	
PROJECT TOTAL		24	

SPV.0060.10
LANDMARK REFERENCE MONUMENTS SPECIAL

STATION	OFFSET	REFERENCE EACH	WITNESS EACH
126+44.40	1.9' RT	1	4
PROJECT TOTAL		5	

SPV.0090.01
CONCRETE CURB & GUTTER 36-INCH TYPE D MODIFIED

STREET	STATION	TO	STATION	LOCATION	SPV.0090.01 LF
SOUTH BOULEVARD	100+51	-	116+13	LT & RT	247
PROJECT TOTAL					247

SPV.0165.01
STAMPED COLORED CONCRETE SIDEWALK 4-INCH

STREET	STATION	TO	STATION	SPV.0165.01 SF
SOUTH BOULEVARD	100+85	-	102+42	1155
PROJECT TOTAL				1155

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
5988-00-04		
FEDERAL PROJECT NUMBER	4.01	13

PLAT OF RIGHT-OF-WAY REQUIRED FOR

SOUTH BOULEVARD

(U.S.H. 12 - S.T.H. 123)

CTHW — SAUK COUNTY

CONSTRUCTION PROJECT NUMBER

5988-00-74

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

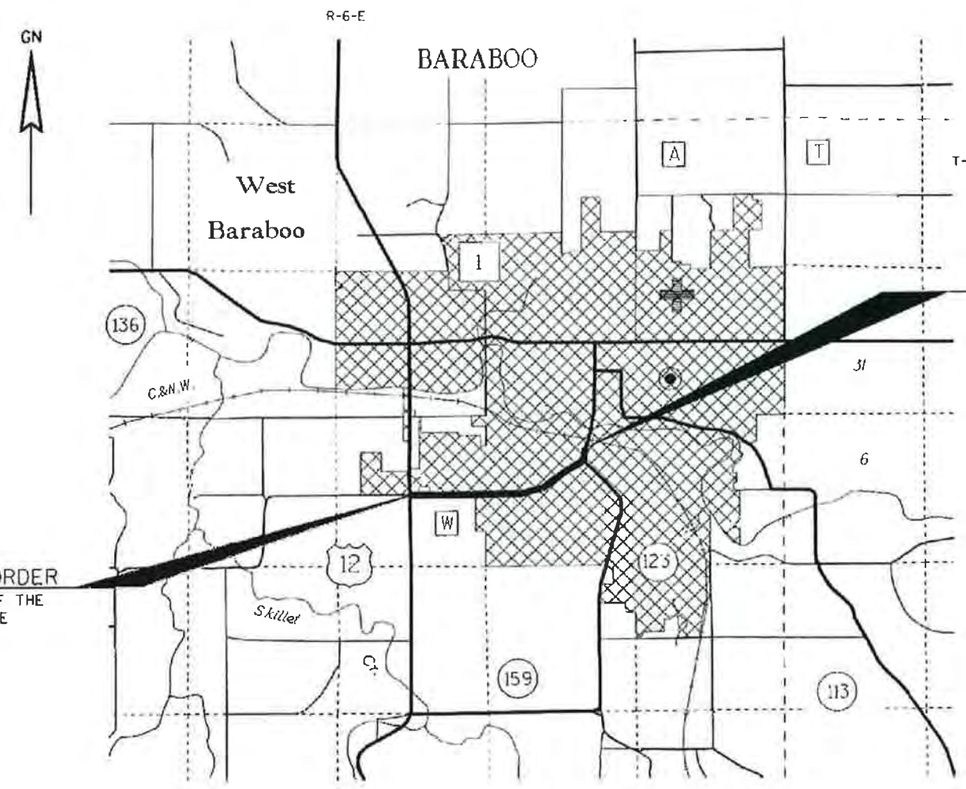
STATE, COUNTY, OR TOWN LINE		ACCESS POINT	AP
SECTION LINE		ACCESS RIGHTS	AR
QUARTER LINE		ACRES	AC.
SIXTEENTH LINE		AND OTHERS	ET. AL.
PROPOSED REFERENCE LINE		CENTERLINE	C/L
PROPOSED R/W LINE		CERTIFIED SURVEY MAP	CSM
EXISTING H.E. LINE		DOCUMENT	DOC.
PROPERTY LINE		HIGHWAY EASEMENT	H.E.
EASEMENT LINE		LAND CONTRACT	LC
CORPORATE LIMITS		MONUMENT	MON.
EXISTING CENTERLINE		PAGE	P.
LOT & TIE LINES		POINT OF CURVE	P.C.
UTILITIES	FO (FIBER OPTIC)	POINT OF INTERSECT	P.I.
(TELEPHONE, GAS, ELECTRIC, CABLE TV, FIBER OPTIC)		PERMANENT LIMITED EASEMENT	PLE
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)		PROPERTY LINE	PL
NO ACCESS (BY ACQUISITION)		POINT OF TANGET	P.T.
NO ACCESS (BY STATUTORY AUTHORITY)		RECORDED AS	(100')
FEE (HATCH VARIES)		REFERENCE LINE	R/L
TEMPORARY LIMITED EASEMENT		REMAINING	REM.
PERMANENT LIMITED EASEMENT		RIGHT-OF-WAY	R/W
PARCEL NUMBER	102	SECTION	SEC.
SIGN NUMBER (OFF PREMISE)	21	SQUARE FEET	SQ.FT.
BUILDING		STATION	STA.
FOUND IRON PIPE/PIN	(IF UNLESS NOTED)	TEMPORARY LIMITED EASEMENT	TLE
R/W MONUMENT	■ (SET) (CHISELED CROSS) + (SET) (MACHINE) ⊙ (SET)	VOLUME	V.
R/W STANDARD	△ (SET)		
SIGN	(SIGN)		
SECTION CORNER SYMBOL			

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER		
GAS		
TELEPHONE		
OVERHEAD TRANSMISSION LINES		
ELECTRIC		
CABLE TELEVISION		
FIBER OPTIC		
SANITARY SEWER		
STORM SEWER		
POWER POLE	○	●
TELEPHONE POLE	⊠	⊠
TELEPHONE PEDESTAL	⊠	⊠
GUY WIRE		● GUY



BEGIN RELOCATION ORDER
2,777.56' S. OF AND 12.11' E. OF THE N 1/4 COR. OF SEC. 3, T11N, R6E
STA. 100+00.00
Y=233,524.624
X=643,831.968

END RELOCATION ORDER
1,287.54' S. OF AND 866.85' E OF THE N 1/4 COR. OF SEC. 2, T11N, R6E
STA. 167+00.00
Y=234,984.209
X=649,967.239

LAYOUT
SCALE 0 0.5 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.266 MI. (URBAN)

NOTES

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, SAUK COUNTY ZONE, NAD 83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON HIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE 1"x24" IRON PIPES UNLESS OTHERWISE NOTED AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT

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

ORIGINAL PLANS PREPARED BY

GRAEF
1150 Springhurst Drive,
Suite 201
Green Bay, WI 54304-5950
920 / 592 9440
920 / 592 9445 fax
www.graef-usa.com

WISCONSIN MICHAEL C. JENSEN S-2447 WI LAND SURVEYOR

9-15-2010
(Date) (Signature)

REVISION DATE
11-30-2010
10-14-2013

ACCEPTED FOR CITY OF BARABOO

DATE: 9/15/10 (Signature)

MAYOR (Title)

E

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
5988-00-04		
FEDERAL PROJECT NUMBER	4.01	13

PLAT OF RIGHT-OF-WAY REQUIRED FOR

SOUTH BOULEVARD

(U.S.H. 12 - S.T.H. 123)

CTHW — SAUK COUNTY

CONSTRUCTION PROJECT NUMBER
5988-00-74

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, OR TOWN LINE	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
PROPOSED REFERENCE LINE	
PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
EASEMENT LINE	
CORPORATE LIMITS	
EXISTING CENTERLINE	
LOT & TIE LINES	
UTILITIES (TELEPHONE,GAS,ELECTRIC,CABLE TV,FIBER OPTIC)	FO (FIBER OPTIC)
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
NO ACCESS (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
PARCEL NUMBER	102
SIGN NUMBER (OFF PREMISE)	21
BUILDING	
FOUND IRON PIPE/PIN	(IF UNLESS NOTED)
R/W MONUMENT	● =(SET) (CHISELED CROSS +(SET) (MACHINE ⊙(SET)
R/W STANDARD	△ =(SET)
SIGN	=SIGN
SECTION CORNER SYMBOL	

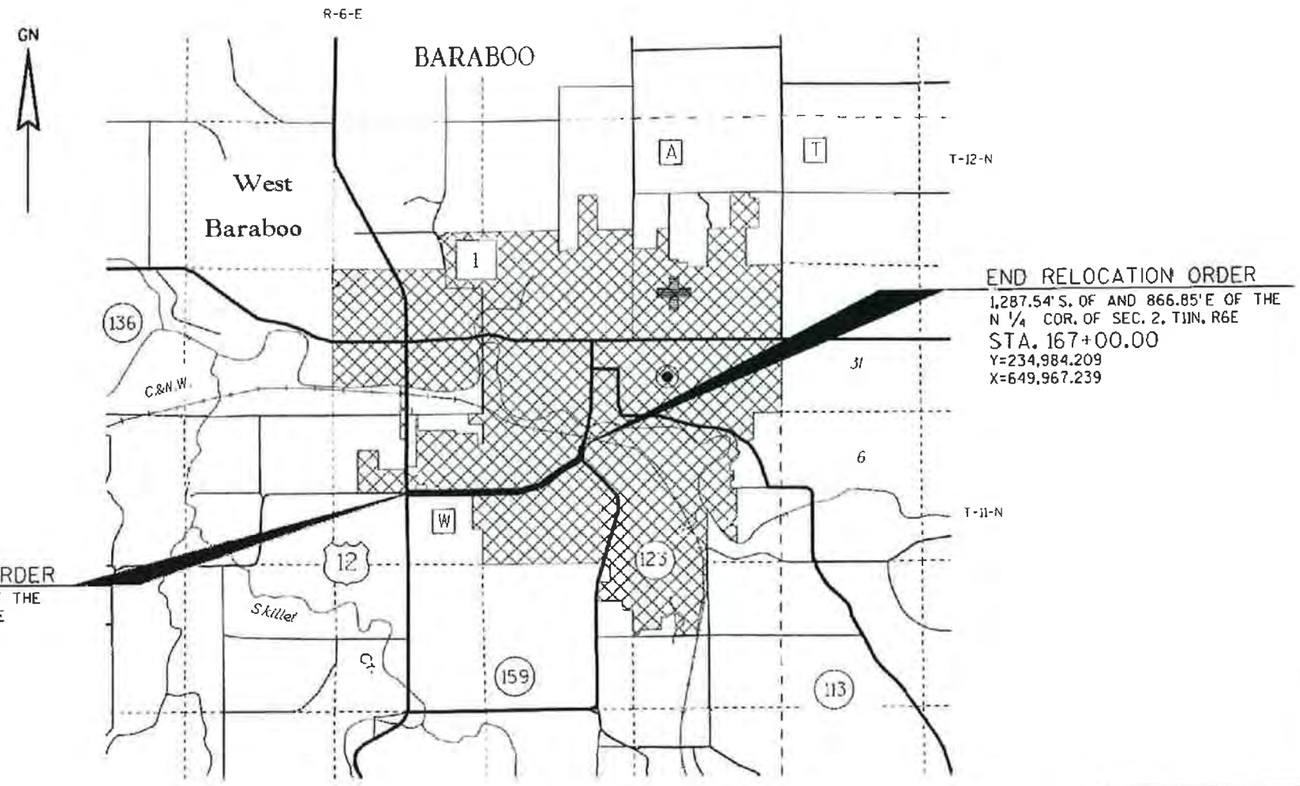
ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET. AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
POINT OF CURVE	P.C.
POINT OF INTERSECT	P.I.
PERMANENT LIMITED EASEMENT	PLE
PROPERTY LINE	PL
POINT OF TANGET	P.T.
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER		
GAS		
TELEPHONE		
OVERHEAD TRANSMISSION LINES		
ELECTRIC		
CABLE TELEVISION		
FIBER OPTIC		
SANITARY SEWER		
STORM SEWER		
POWER POLE	○	●
TELEPHONE POLE	⊗	⊗
TELEPHONE PEDESTAL	⊠	⊠
GUY WIRE		●GUY



BEGIN RELOCATION ORDER
2,777.56' S. OF AND 12.11' E. OF THE N 1/4 COR. OF SEC. 3, T11N, R6E
STA. 100+00.00
Y=233,524.624
X=643,831.968

END RELOCATION ORDER
1,287.54' S. OF AND 866.85' E OF THE N 1/4 COR. OF SEC. 2, T11N, R6E
STA. 167+00.00
Y=234,984.209
X=649,967.239

LAYOUT
SCALE 0 0.5 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.266 MI. (URBAN)

NOTES

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ORIGINAL PLANS PREPARED BY

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Green Bay, WI 54304-5950
920 / 592 9440
920 / 592 9445 fax
www.graef-usa.com

WISCONSIN MICHAEL C. JENSEN S-2613 LAND SURVEYOR

9-15-2010 (Date) (Signature)

REVISION DATE
11-30-2010
10-14-2013

ACCEPTED FOR CITY OF BARABOO

DATE: 9/15/10 (Signature)

MAYOR (Title)

E

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	R/W ACRES REQUIRED			TLE ACRES	P.L.E. ACRES
				NEW	EXISTING	TOTAL		
1	4.03	LOECHLER PROPERTIES, LLC	FEE & TLE	0.011	---	0.011	0.031	---
2	4.03	LOECHLER PROPERTIES, LLC	TLE	---	---	---	0.026	---
3	4.03	LOECHLER PROPERTIES, LLC	TLE	---	---	---	0.125	---
4	4.03, 4.04	JUSTUS H. & ARLENE B. RATHJEN	TLE	---	---	---	0.043	---
5	4.05	MSA PROFESSIONAL SERVICES, INC.	PLE & TLE	---	---	---	0.228	0.001
6	4.03, 4.04	TWJ PROPERTIES, LLC	FEE & TLE	0.037	---	0.037	0.037	---
7	4.04	JEFFREY R. & KATHLEEN BLUM	TLE	---	---	---	0.029	---
8	4.04, 4.05	MSA BARABOO BUILDING, LLC	TLE	---	---	---	0.198	---
9	4.04	MERRY GREENWOOD	FEE & TLE	0.009	---	0.009	0.116	---
10	4.04, 4.05	COMMUNITY FIRST BANK	FEE & TLE	0.011	---	0.011	0.156	---
11	4.05, 4.06	FARM & FLEET OF MADISON, INC.	PLE & TLE	---	---	---	0.263	0.0007
12	4.05, 4.06	MABEL L. DAVID, C/O DALE BURGESS	FEE, PLE & TLE	0.046	---	0.046	0.311	0.004
13	4.06, 4.07, 4.08	BARABOO SYSCO FOOD SERVICES	FEE, PLE & TLE	0.098	---	0.098	0.136	0.0007
14	4.06, 4.07	BLACKHAWK MANOR, LLC	FEE, PLE & TLE	0.025	---	0.025	0.084	0.003
15								
16	4.09	GPK, LLC	TLE	---	---	---	0.019	---
17	4.09	JON N. & KRISTIN H. MARKING	TLE	---	---	---	0.062	---
18	4.09	VERNON HOHL	TLE	---	---	---	0.017	---
19	4.09, 4.10	MICHAEL J. HOPPE, LC	TLE	---	---	---	0.031	---
20								
21	4.10	AMERIGAS PROPANE LP PETROLANE GAS SERVICE LIMITED PARTNERSHIP	TLE	---	---	---	0.020	---
22	4.10	POINTON ENTERPRISES, LLC	FEE & TLE	0.0003	---	0.0003	0.007	---
23	4.11	FRANK M. & CHERI L. NECKAR	TLE	---	---	---	0.010	---
24		(ELIMINATED)	---	---	---	---	---	---
25								
26	4.12, 4.13	SAUK COUNTY FARM BUREAU COOPERATIVE	FEE & TLE	0.002	---	0.002	0.017	---
27	4.12, 4.13	CITY OF BARABOO SWIMMING POOL	FEE & TLE	0.086	---	0.086	0.111	---
28	4.13	MARTIN H. BERNING	FEE & TLE	0.029	---	0.029	0.056	---
29	4.13	EXPRESS FOOD MART, LLC	FEE & TLE	0.002	---	0.002	0.020	---
30								
80	4.03, 4.05, 4.06, 4.07, 4.09	ALLIANT ENERGY CORP. (ELECTRIC)	RELEASE OF RIGHTS	---	---	---	---	---
81	4.04, 4.05,	ALLIANT ENERGY CORP. (GAS)	RELEASE OF RIGHTS	---	---	---	---	---
82	4.03, 4.05, 4.06, 4.07	CHARTER COMMUNICATIONS (CABLE)	RELEASE OF RIGHTS	---	---	---	---	---
83	4.05, 4.06, 4.07, 4.09	SAUK COUNTY EMERGENCY MANAGEMENT BUILDINGS AND SAFETY	RELEASE OF RIGHTS	---	---	---	---	---
84	4.03, 4.06, 4.07, 4.09, 4.13	CENTURYTEL (TELEPHONE)	RELEASE OF RIGHTS	---	---	---	---	---
85	4.08	CITY OF BARABOO (SANITARY SEWER)	RELEASE OF RIGHTS	---	---	---	---	---
86	4.08	CITY OF BARABOO (STORM SEWER)	RELEASE OF RIGHTS	---	---	---	---	---
87	4.03, 4.05, 4.06, 4.07	AMERICAN TRANSMISSION COMPANY	RELEASE OF RIGHTS	---	---	---	---	---

4

4

REVISION DATE 11-30-2010
10-14-2013 - REVISED SHEET NUMBERS FOR PARCELS 82, 83, & 87

DATE 9-15-2010

SCALE, FEET
0 N/A

HWY: SOUTH BOULEVARD

COUNTY: SAUK

STATE R/W PROJECT NUMBER 5988-00-04

CONSTRUCTION PROJECT NUMBER 5988-00-74

PLAT SHEET 4.02

PS&E SHEET

E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040101_rs.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 100.000000 ft / in.

WISDOT/CADDS SHEET 60

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	STATE AID PROJECT NO. 1017	VARIES	UNK.
	R/W PORJECT NO. 1670-00-24	VARIES	1999
USH 12	R/W PROJECT NO. 1670-00-24	VARIES	1999

CURVE TABLE

CURVE	CURVE LENGTH	CHORD LENGTH	CHORD BEARING	RADIUS
C28	49.42'	48.69'	S 29°55'15" E	82.50'
C29	47.78'	46.77'	S 67°30'39" E	67.00'
C30	5.00'	5.00'	S 45°20'46" E	82.50'
C31	4.70'	4.70'	N 45°20'46" W	77.50'
C32	35.43'	34.69'	N 67°30'39" W	49.69'

PARCEL 1

COURSE	BEARING	DISTANCE
7490-7053	N 89°58'33" W	94.57'
7053-7196	N 47°05'36" W	64.42'
7196-7472	N 00°29'06" W	22.93'
	C28	
7485-7487	S 47°04'57" E	6.20'
	C29	
7760-7490	S 87°56'21" E	69.96'

PARCEL 6

COURSE	BEARING	DISTANCE
7052-7388	S 89°58'33" E	212.78'
7388-7533	S 00°12'49" E	2.33'
7533-7528	S 87°12'55" W	213.02'
7528-7052	N 00°06'49" W	12.77'

CITY OF BARABOO

TOWN SW-NE SEC. 3

NW-SE SEC. 3

USH 12

SOUTH BOULEVARD

CTH W

LOECHLER PROPERTIES, LLC (1) LOT 2 VOL 7, OF CSM'S PAGE 1749

LOECHLER PROPERTIES, LLC (2) LOT 1 VOL 16, OF CSM'S PAGE 3307

LOECHLER PROPERTIES, LLC (3) LOT 1 VOL 16, OF CSM'S PAGE 3295

JUSTUS H. & ARLENE B. RATHJEN (4)

TWJ PROPERTIES, LLC (6) LOT 1 VOL 10, OF CSM'S PAGE 2385

COMMONWEALTH CREDIT UNION LOT 1 CSM #3315

BEGIN RELOCATION ORDER STA. 100+00.00
Y = 233,524.624
X = 643,831.968

STA. 99+99.86
12.09' N 00°14'49" W

Y = 233,512.526
X = 643,831.876
COUNTY MONUMENT

Y = 230,878.182
X = 643,843.748
1 1/4" IRON ROD

Y = 233,519.321
X = 646,476.375
NAIL
STA. 126+44.41
1.85' RIGHT

Y = 236,302.175
X = 643,819.858
COUNTY MONUMENT

℄ ELEC. EASEMENT VOL. 268 PG. 95

50' WIDE ELEC. EASEMENT REEL 562, IMAGE 255

EXISTING 66' WIDE INGRESS/EGRESS ACCESS EASEMENT PER CSM #2385

SOUTH BLVD. R/W ℄ AND CONSTRUCTION ℄

ELECTRIC EASEMENT ALONG R/W FENCE VOL 110, P. 635 VOL 119, P. 22

CHARTER COMMUNICATIONS (CABLE) (82)

CENTURYTEL (TELE.) (84)

ALLIANT ENERGY CORP. (ELEC.) (80)

AMERICAN TRANSMISSION CO. (87)

SLOPE INTERCEPTS

T.L.E. DRIVE & SLOPES

T.L.E. SLOPES

MATCH LINE SEE SHEET

GN

REVISION DATE 11-30-2010 10-14-2013 ADDED PARCEL 87	DATE 9-15-2010	SCALE, FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.03	
	GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 92	E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040101_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

WISDOT/CADDS SHEET 75

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	STATE AID PROJECT NO. 1017	66'	UNK
	E.A. MADALON INDUSTRIAL PARK	66'	1980

PARCEL 6

COURSE	BEARING	DISTANCE
7052-7388	S 89°58'33" E	212.78'
7388-7533	S 00°12'49" E	2.33'
7533-7528	S 87°12'55" W	213.02'
7528-7052	N 00°06'49" W	12.77'

PARCEL 9

COURSE	BEARING	DISTANCE
7388-7387	S 89°58'33" E	661.11'
7387-7546	S 00°10'08" E	1.63'
7546-7526	N 89°55'31" W	635.28'
7526-7533	S 87°12'55" W	25.86'
7533-7388	N 00°12'49" W	2.33'

GN

T12N R6E 34 34 3 3 T11N R6E
Y = 236,302.175
X = 643,819.858
COUNTY MONUMENT

CITY

TOWN

SW-NE SEC. 3

JUSTUS H. & ARLENE B. RATHJEN (4)

JEFFREY R. & KATHLEEN BLUM (7)
LOT 1
VOL 7, OF CSM'S
PAGE 1861

MSA BARABOO BUILDING, LLC (8)
LOT 2

LOT 3

E.A. MADALON INDUSTRIAL PARK

ALLIANT ENERGY CORP. (GAS) (81)

OF

106+00.00 7512 63'
106+27.32 7511 63'
106+34.00 7811 63.00'
106+37.00 7514 44.52'
7515 107+27.39 44.60'
7516 107+27.45 33.60'
T.L.E. DRIVES & SLOPES
107+60.00 7817 48.00'
7517 108+20.00 48.00'
7518 108+50.00 60'
SLOPE INTERCEPTS
109+00.00 7663 55.00'
109+55.00 7519 38.80'
110+05.00 7520 38.85'
7521 111+00.00 38.93'
7522 111+50.00 44'

106-00 4.03
112+00 4.05

S 89°58'33" E 1,379.01'

SOUTH BOULEVARD
SOUTH BLVD. R/W & CONSTRUCTION

+00 +50 107+00 +50 108+00 S 89°55'31" E +50 109+00 +50 110+00 +50 111+00 +50 112+00

66'

CTH W

QUARTER LINE
N 89°51'10" E 2,644.50'

7388 106+61.16 32.46'
106+14.00 7531 43.00'
7533 106+61.18 34.79'
7532 106+61.23 44.47'
7526 106+87.00 33.50'
7536 107+14.00 41.00'
7847 109+91.73 33.50'
109+91.72 7386 32.16'
7538 109+53.00 48.50'
108+60.00 7537 48.50'
7540 109+56.00 81.00'
7542 110+50.00 62.00'
109+91.83 7848 56.79'
109+83.00 7539 56.00'
109+80.00 7541 81.00'
7543 111+80.00 51.00'
7544 111+50.00 56'

40' WIDE ELECTRIC EASEMENT REEL 573, IMAGE 333
40' WIDE ELECTRIC EASEMENT REEL 569, IMAGE 077

84.02'
79.78'

MATCH LINE SEE SHEET

TWJ PROPERTIES, LLC (6)
LOT 1
VOL 10, OF CSM'S
PAGE 2385

MERRY GREENWOOD (9)

COMMUNITY FIRST BANK (10)

NW-SE SEC. 3

BARABOO

T11N R6E 3 3 3 3
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X = 643,831.876
COUNTY MONUMENT

T11N R6E 10 10
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X = 643,843.748
1 1/4" IRON ROD

T11N R6E 3 2 3 2
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X = 646,476.375
NAIL
STA. 126+44.41
1.85' RIGHT

REVISION DATE 11-30-2010 10-14-2013 NO CHANGES	DATE 9-15-2010	SCALE, FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.04
	GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 93 E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040102_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

WISDOT/CADDS SHEET 75

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	STATE AID PROJECT NO. 1017	66'	UNK
	E.A. MADALON INDUSTRIAL PARK	66'	1980
INDUSTRIAL CT.	E.A. MADALON INDUSTRIAL PARK	100'	1980

SIGN SCHEDULE

SIGN NUMBER	OWNER	STATION	OFFSET
9-1	HONEYWOOD ENTERPRISES LLC	112+80	38.8' RT.

PARCEL 9

COURSE	BEARING	DISTANCE
7388-7387	S 89°58'33" E	661.11'
7387-7546	S 00°10'08" E	1.63'
7546-7526	N 89°55'31" W	635.28'
7526-7533	S 87°12'55" W	25.86'
7533-7388	N 00°12'49" W	2.33'

PARCEL 12

COURSE	BEARING	DISTANCE
7387-7391	S 89°58'33" E	972.21'
7391-7557	S 00°04'50" E	2.49'
7557-7546	N 89°55'31" W	972.21'
7546-7387	N 00°10'08" W	1.63'

T12N R6E, 34, 34, 3, 3 — Y = 236,302.175, X = 643,819.858 COUNTY MONUMENT

CITY OF BARABOO

SW-NE SEC. 3

SE-NE SEC. 3

NW-SE SEC. 3

NE-SE SEC. 3

MSA BARABOO BUILDING, LLC (8)

MSA PROFESSIONAL SERVICES, LLC (5)

COMMUNITY FIRST BANK (10)

FARM & FLEET OF MADISON, INC. (11)

TOWN OF BARABOO (12)

LOT 3

LOT 4

E.A. MADALON INDUSTRIAL PARK

INDUSTRIAL COURT R/W ℄ AND CONSTRUCTION ℄

INDUSTRIAL COURT

SOUTH BLVD. R/W ℄ AND CONSTRUCTION ℄

SOUTH BOULEVARD

CHARTER COMMUNICATIONS (CABLE) (82)

ALLIANT ENERGY CORP. (GAS) (81)

ALLIANT ENERGY CORP. (ELEC.) (80)

AMERICAN TRANSMISSION CO. (87)

MABEL L. DAVID C/O DALE BURGESS (87)

SAUK CO. EMERGENCY MANAGEMENT BUILDINGS AND SAFETY (83)

7523 112+30.00 70.05'

7846 112+81.87 70.09'

7844 112+82.09 34.09'

7818 112+51.00 51.00'

7819 112+53.00 40.00'

7771 115+46.50 34.33' & 36.33'

7770

7768 115+43.50 34.32' & 36.32'

7769

7525 115+58.79 70.34'

7798 115+52.97 40.33'

7797 115+58.97 40.34'

7055 115+59.01 34.34'

7796 115+53.01 34.33'

7775 117+16.50 34.48' & 36.48'

7774

7772 117+13.50 34.37' & 36.37'

7773

7561 116+58.93 47.43'

7666 117+25.00 66.48'

7665 117+90.00 54.00' & 66.54'

7664

7017 116+59.01 34.43'

7387 113+22.28 31.87'

7546 113+22.28 33.50'

7545 113+22.36 52.50'

7548 114+00.00 63.00'

7821 114+75.00 61.00'

7820 115+50.00 51.00'

7549 117+00.00 43.00'

9-1 ELECTRIC EASEMENT ALONG R/W FENCE VOL 119, P. 31

40' WIDE ELECTRIC EASEMENT REEL 569, IMAGE 077

45' WIDE ELECTRIC EASEMENT REEL 562, IMAGE 253

ELECTRIC EASEMENT ALONG R/W FENCE VOL 110, PAGE 503

T.L.E. SLOPES

T.L.E. DRIVE & SLOPES

SLOPE INTERCEPTS

P.L.E. LIGHT POLE

P.L.E. CONTROL CABINET

GUY

R BAR

MH

SAN

W

WV

OH

HO

G

FO

S 89°58'33" E 1,379.01'

S 89°58'33" E PL 985.08'

S 89° 55' 31" E

S 89°55'31" E

N 89°51'10" E 2,644.50'

N 00°16'26" W

112+00

113+00

114+00

115+00

116+00

117+00

118+00

100'

+50

4.04

4.06

66'

99'

32'

36'

STA. 116+12.56 SOUTH BOULEVARD
STA. 10+00.00 INDUSTRIAL COURT

QUARTER LINE

CTH W

SIXTEENTH LINE

MATCH LINE SEE SHEET

T11N R6E, 3, 3, 3, 3 — Y = 233,512.526, X = 643,831.876 COUNTY MONUMENT

T11N R6E, 3, 3, 10, 10 — Y = 230,878.182, X = 643,843.748 1 1/4" IRON ROD

T11N R6E, 3, 2, 3, 2 — Y = 233,519.321, X = 646,476.375 NAIL STA. 126+44.41 1.85' RIGHT

GN

4

4

REVISION DATE 11-30-2010 10-14-2013 ADDED PARCELS 80 AND 82	DATE 9-15-2010	SCALE, FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.05
	GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 94 E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040103_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

WISDOT/CADDS SHEET 75

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	STATE AID PROJECT NO. 1017	66'	UNK.

PARCEL 12

COURSE	BEARING	DISTANCE
7387-7391	S 89°58'33" E	972.21'
7391-7557	S 00°04'50" E	2.49'
7557-7546	N 89°55'31" W	972.21'
7546-7387	N 00°10'08" W	1.63'

PARCEL 14

COURSE	BEARING	DISTANCE
7049-7558	S 00°04'50" E	9.27'
7558-7529	N 85°04'10" W	76.79'
7529-7557	N 89°55'31" W	240.50'
7557-7391	N 00°04'50" W	2.49'
7391-7049	S 89°58'33" E	317.00'

T 12 N R 6 E, Sec. 34 / 34 / 3 / 3 — T 11 N R 6 E
Y = 236,302.175
X = 643,819.858
COUNTY MONUMENT

CITY

SE-NE
SEC. 3

GN

T 12 N R 6 E, Sec. 34 / 35 / 3 / 2 — T 11 N R 6 E
Y = 236,283.650
X = 646,456.230
COUNTY MONUMENT

PL

BARABOO
SYSCO FOOD
SERVICES
13

FARM & FLEET
OF MADISON, INC.
11

4

4

7823 118+50.00 45.00'
7776 7777 118+53.50 34.60' & 36.60'
P.L.E. LIGHT POLE 118+56.50 34.60' & 36.60' 7779 7778
7824 119+50.00 54.00'
T.L.E. DRIVE& SLOPES
7780 7781 119+93.50 34.72' & 36.72'
P.L.E. LIGHT POLE
119+96.50 34.72' & 36.72' 7783 7782
7565 120+50.00 58.00'
7825 120+46.00 45.00'
SLOPE INTERCEPTS
7566 121+04.00 58.00'
7567 121+09.00 50.00'
121+33.50 34.84' & 36.84' 7784 7785
P.L.E. LIGHT POLE
121+36.50 34.85' & 36.85' 7787 7786
7668 121+80.00 44.89'
P.L.E. LIGHT POLE
7788 7789 122+73.50 34.97' & 36.97'
122+76.50 34.97' & 36.97' 7791 7790
7570 123+61.11 45.04'
7403 123+61.17 35.05'
118+00 4.05
124+00 4.07
S 89°58'33" E 985.08'
BLDG.
OF
10'
R BAR
SOUTH BOULEVARD
SOUTH BLVD. R/W & CONSTRUCTION ℄
118+00 +50 119+00 +50 120+00 +50 121+00 +50 122+00 +50 123+00 +50 124
S 89°55'31" E 2,644.50'
N 89°51'10" E
QUARTER LINE
CTH W

80 87 83 84 CENTURYTEL (TELE.)
ALLIANT ENERGY CORP. (ELEC.) 80 87 AMERICAN TRANSMISSION CO.
82 CHARTER COMMUNICATIONS (CABLE)
7391 84 80

MATCH LINE SEE SHEET
7662 118+45.00 33.50'& 40.50'
7667
P.L.E. STORM SEWER
7550 7551 118+75.00 43.00'& 50.00'
118+55.00 33.50'& 40.50' 7669 7670
7552 119+00.00 50.00'
7553 119+03.00 40.00'
40.87'
72.58'
BLDG.
ELECTRIC EASEMENT ALONG ROAD VOL 129, P. 245
7554 120+00.00 40.00'
7555 120+50.00 44.00'
45' WIDE ELECTRIC EASEMENT REEL 562, PG. 253
T.L.E. DRIVE& SLOPES
SAUK CO. EMERGENCY MANAGEMENT BUILDINGS AND SAFETY 83
7822 121+50.00 46.00'
SLOPE INTERCEPTS
ELECTRIC EASEMENT ALONG FENCE VOL 110, P. 509
TELEPHONE EASEMENT ALONG ROAD VOL 129, P. 245
7671 7672 122+72.00 33.50'& 42.50'
P.L.E. STORM SEWER
7673 7674 122+82.00 33.50'& 42.50'
7557 122+94.50 33.50'
7556 122+94.53 45.00'
T.L.E. SLOPES
54.54'
25' WIDE ELECTRIC EASEMENT REEL 569, I073
PERMANENT STORM WATER EASEMENT DOC.# 777488
MATCH LINE SEE SHEET

T 11 N R 6 E, Sec. 3 / 3 / 3 / 3
Y = 233,512.526
X = 643,831.876
COUNTY MONUMENT

TOWN OF MABEL L. DAVID C/O DALE BURGESS
12

BARABOO BLACKHAWK MANOR, LLC
14

T 11 N R 6 E, Sec. 3 / 2 / 3 / 2
Y = 233,519.321
X = 646,476.375
NAIL
STA. 126+44.41
1.85' RIGHT

T 11 N R 6 E, Sec. 3 / 3 / 10 / 10
Y = 230,878.182
X = 643,843.748
1 1/4" IRON ROD

NE-SE
SEC. 3

BARABOO

T 11 N R 6 E, Sec. 3 / 2 / 10 / 11
Y = 230,872.323
X = 646,480.097
1 1/4" IRON ROD

REVISION DATE	DATE	SCALE, FEET	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.06	
11-30-2010 10-14-2013 ADDED PARCELS 80 & 87	9-15-2010	0 20 40	COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 95	E
	GRID FACTOR					

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040104_rp.dgn
PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.
WISDOT/CADDS SHEET 75

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	STATE AID PROJECT NO. 1017	66'	UNK.
	CSM NO. 4366, 3297, 2904, AND 1390	66'	1994-2001
	DOC. NO. 845226, 777487	66'	2002 & 2004
MOORE ST.			
W½	VOL. 341, P. 286	33'	1967
E½	TOWN/CITY RECORDS	33'	UNK.

PARCEL 13

COURSE	BEARING	DISTANCE
7433-7451	N 00°25'03" W	7.22'
7451-7591	S 89°52'02" E	785.91'
7591-7588	S 00°04'29" W	3.64'
7588-7433	S 89°52'18" W	785.85'

PARCEL 14

COURSE	BEARING	DISTANCE
7049-7558	S 00°04'50" E	9.27'
7558-7529	N 85°04'10" W	76.79'
7529-7557	N 89°55'31" W	240.50'
7557-7391	N 00°04'50" W	2.49'
7391-7049	S 89°58'33" E	317.00'

GN

T 12 N R 6 E, Sec. 34 / 34 / 3 / 3
Y = 236,302.175
X = 643,819.858
COUNTY MONUMENT

T 12 N R 6 E, Sec. 34 / 35 / 3 / 2
Y = 236,283.650
X = 646,456.230
COUNTY MONUMENT

66' WIDE UTILITY EASEMENT
REEL 567, IMAGE 919

SE-NE
SEC. 3

SW-NW
SEC. 2

CITY

VACATED MOORE STREET

N 00°25'03" W 2,764.40'

BARABOO
SYSCO FOOD
SERVICES
13

SECTION LINE
SOUTH BLVD ℄
N 00°25'03" W 1.85'
QUARTER LINE
DETAIL
E.¼CORNER SEC. 3
W.¼CORNER SEC. 2

34' WIDE ELECTRIC EASEMENT
REEL 563, IMAGE 798

7573 STA. 126+44.05 40.29'
7451 STA. 126+44.09 35.29'
STA. 124+50.00 7571 40.12'
7826 STA. 129+00.00 7827 40.04'&45.04'
STA. 129+45.00 7829 7828 39.99'&44.99'
T.L.E. SLOPES 5'
SLOPE INTERCEPTS
10'
84 82

S 89°58'33" E 985.08'

N 00°25'03"W 29.93'
7433
STA. 126+44.40
S 89°55'31" E

SOUTH BOULEVARD
SOUTH BLVD. R/W ℄ AND CONSTRUCTION ℄

80 ALLIANT ENERGY CORP. (ELEC.)

124+00 +50 125+00 +50 126+00 +50 127+00 +50 128+00 +50 129+00 +50 130

QUARTER LINE N 89°51'10" E 2,644.50'
N 89°58'33" W 33.00'
S 00°04'50" E 28.85'
QUARTER LINE S 89°51'36" E 2,620.48'

87 AMERICAN TRANSMISSION CO.
83 SAUK CO. EMERGENCY MANAGEMENT BUILDINGS AND SAFETY
CENTURYTEL (TELE.) 84
10'x10' TELEPHONE EASEMENT REEL 186, 1199
7529 125+35.00 33.50'
7049
126+77.51 7438 37.81'
126+11.51 7558 40.00'
N 89°52'18" E 859.45'
CTH W

82 CHARTER COMMUNICATIONS (CABLE)
25' WIDE ELECTRIC EASEMENT REEL 569, 1073
7560 125+50.00 47.00'
7677 125+88.00 38.00'&52.00'
7765
T.L.E. SLOPES
SLOPE INTERCEPTS
P.L.E. STORM SEWER
7834 124+75.00 45.00'
7675 125+98.00 38.85'&52.00'
7766
7559 126+11.55 52.00'
5' WIDE SIDEWALK PERMANENT EASEMENT DOC.# 845226
25' WIDE ELECTRIC EASEMENT REEL 569, 1073
UTILITY EASEMENT VOL 376, PAGE 664
10' WIDE SIDEWALK PERMANENT EASEMENT DOC.# 777487

MATCH LINE SEE SHEET 57.79'
MATCH LINE SEE SHEET

BLDG.

PERMANENT STORM WATER EASEMENT DOC.# 777488

NE-SE
SEC. 3

BLACKHAWK MANOR, LLC
14

N 00°04'50" W 2,647.00'
33' 33'
SECTION
MOORE STREET

T 11 N R 6 E, Sec. 3 / 3 / 3 / 3
Y = 233,512.526
X = 643,831.876
COUNTY MONUMENT

T 11 N R 6 E, Sec. 3 / 3 / 10 / 10
Y = 230,878.182
X = 643,843.748
1¼" IRON ROD

T 11 N R 6 E, Sec. 3 / 2 / 3 / 2
Y = 233,519.321
X = 646,476.375
NAIL
STA. 126+44.41
1.85' RIGHT

T 11 N R 6 E, Sec. 3 / 2 / 10 / 11
Y = 230,872.323
X = 646,480.097
1¼" IRON ROD

NW-SW
SEC. 2

OF

BARABOO

STATE OF WISCONSIN
(THE ADJUTANT GENERAL'S OFFCE)
(NATIONAL GUARD ARMORY)

T 11 N R 6 E, Sec. 2 / 2 / 2 / 2
Y = 233,512.920
X = 649,096.850
¾" IRON ROD

REVISION DATE 11-30-2010 10-14-2013 ADDED PARCELS 84 & 87. REVISED FO LINE EAST OF STA. 129+40	DATE 9-15-2010	SCALE, FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.07
	GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 96 E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040105_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

WISDOT/CADDS SHEET 75

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	STATE AID PROJECT NO. 1017	66'	UNK
	CSM NO. 4366, 3297, 2904, AND 1390	66'	1994-2001
	DOC. NO. 845226, 777487	66'	2002 & 2004
PATE ST.	CITY RESOLUTION	66'	1994

PARCEL 13

COURSE	BEARING	DISTANCE
7433-7451	N 00°25'03" W	7.22'
7451-7591	S 89°52'02" E	785.91'
7591-7588	S 00°04'29" W	3.64'
7588-7433	S 89°52'18" W	785.85'

T 12 N R 6 E
34 35
3 2
T 11 N R 6 E

Y = 236,283.650
X = 646,456.230
COUNTY MONUMENT

CITY

SW-NW
SEC. 2

R BAR

PL

GN

BARABOO
SYSCO FOOD
SERVICES
13

CITY OF BARABOO
(SANITARY SEWER) 85

16' STORM SEWER
EASEMENT
VOL. 200, P. 537

86 CITY OF BARABOO
(STORM SEWER)

16' SANITARY
EASEMENT
VOL. 200, P. 537

7792 STA. 134+14.00
7793 34.52' & 39.52'

7833 STA. 133+90.00
7832 39.54' & 44.54'

7830 STA. 133+50.00
7831 39.58' & 44.58'

P.L.E.
CONTROL
CABINET

STA. 134+20.00 7794
34.51' & 39.51' 7795

STA. 134+30.00 7588
30.86' & 34.50' 7591

T.L.E.
SLOPES

SLOPE
INTERCEPTS

10'

5'

130+00
4.07

136+00
4.09

N 89°52'18" E 492.36'

SOUTH BLVD.
R/W ℄ AND
CONSTRUCTION ℄

SOUTH BOULEVARD

+00 +50 131+00 +50 132+00 +50 133+00 +50 134+00 +50 135+00 +50 136

QUARTER LINE

S 89°55'31" E

S 89°51'36" E 2,620.48'

CTH W

N 89°52'18" E 859.45'

OF

7439 STA. 135+36.95
34.76'

SLOPE
INTERCEPTS

10' WIDE SIDEWALK
PERMANENT EASEMENT
DOC.# 777487

MATCH LINE
SEE SHEET

STATE OF WISCONSIN
(THE ADJUTANT GENERAL'S OFFICE)
(NATIONAL GUARD ARMORY)

T 11 N R 6 E
3 2
3 2

Y = 233,519.321
X = 646,476.375
NAIL
STA. 126+44.41
1.85' RIGHT

T 11 N R 6 E
3 2
10 11

Y = 230,872.323
X = 646,480.097
1¼" IRON ROD

BARABOO CUSTOM LUBE AND WASH
TAMDEE, LLC

LOT 1
VOL 23, OF CSM'S
PAGE 4366

NW-SW
SEC. 2

CASEY'S
MARKETING CO.

LOT 1
VOL 16, OF CSM'S
PAGE 3297

BARABOO

N 00° 11' 57" E

PATE STREET

66'

T 11 N R 6 E
2 2
2 2

Y = 233,512.920
X = 649,096.850
¾" IRON RIDE

MATCH LINE
SEE SHEET

4

4

REVISION DATE 11-30-2010 10-14-2013 REVISED TV TO FO SYMBOL ALONG SOUTH SIDE	DATE 9-15-2010	SCALE. FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.08
	GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 97 E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040106_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	STATE AID PROJECT NO. 1017	66'	UNK.
	CSM NO. 4366, 3297, 2904, AND 1390	66'	1994-2001
	DOC. NO. 845226, 777487	66'	2002 & 2004
PATE ST.	CITY RESOLUTION	66'	1994

SIGN SCHEDULE

SIGN NUMBER	OWNER	STATION	OFFSET
17-1	JON N. & KRISTIN H. MARKING	137+89	34.3' RT

CURVE TABLE

CURVE	CURVE LENGTH	CHORD LENGTH	CHORD BEARING	RADIUS
C25	548.36'	544.86'	N 78°38'45" E	1,399.39'
C26	692.87'	686.43'	N 76°19'35" E	1,465.39'
C33	32.35'	32.35'	N 89°14'22" E	1,465.39'
C34	32.39'	32.39'	S 89°14'30" W	1,472.39'
C35	16.56'	16.56'	S 88°17'21" W	1,472.39'
C36	41.20'	41.20'	S 87°10'00" W	1,474.89'
C37	210.37'	210.19'	S 82°15'55" W	1,469.39'
C38	267.90'	267.53'	N 83°22'10" E	1,465.39'

CURVE DATA
P.I. = 143+53.14
Y = 233,518.944
X = 648,185.106
DELTA = 34° 02' 02" (LT)
D = 4° 00' 04"
T = 438.27'
L = 850.62'
R = 1,432.00'
P.C. = 139+14.87
P.T. = 147+65.49

GN

T 12 N R 6 E (34 35 3 2) T 11 N R 6 E
Y = 236,283.650
X = 646,456.230
COUNTY MONUMENT

SW-NW SEC. 2

CITY

LEE C. HOPPE

SE-NW SEC. 2

T 11 N (2 2 2 2) R 6 E
Y = 233,512.920
X = 649,096.850
¾" IRON ROD

JAMES D. WEICKGENANT

136+00 4.08

N 89°52'18" E 492.36'

SLOPE INTERCEPTS

139+22.53 32.58' 7589

SOUTH BLVD. R/W ℄ AND CONSTRUCTION ℄

83 SAUK CO. EMERGENCY MANAGEMENT BUILDINGS AND SAFETY

SOUTH BOULEVARD

PC 139+14.87

QUARTER — S 89° 55' 31" E — S 89° 51' 36" E — 1,310.24' — LINE — 1,310.24'

+00 +50 137+00 +50 138+00 +50 139+00 +50 140+00 +50 141+00 +50 142+00 4.10

STA. 136+02.95 34.53' 7437

80 ALLIANT ENERGY CORP. (ELEC.)

STA. 136+96.95 34.19' 7579

17-1

138+46.95 33.66' 7580

139+22.41 33.42' 7578

139+54.02 33.47' 7594

STA. 139+54.55 3.89' 7183

S 00°28'04" E 29.58'

84 CENTURYTEL (TELE.)

C26-TOTAL R/W

C38 C37

4' T.L.E. DRIVES & SLOPES

I"IP — I"IP — I"IR BAR 319.63' — N 89°52'18" E

6' WIDE EXISTING UTILITY EASEMENT CSM# 2904

T.L.E. SLOPES

9' 18' 7'

STA. 136+02.94 43.53' 7581

7582 136+96.93 43.20'

7583 136+96.92 52.20'

SLOPE INTERCEPTS

T.L.E. DRIVES & SLOPES

STA. 138+46.94 40.66' 7585

7586 139+22.40 40.42'

STA. 138+46.91 51.66' 7584

7595 139+53.90 40.47'

C33 C34 C35 C36

9.5'

STA. 139+70.00 40.50' & 43.00' 7596 7597

STA. 140+10.00 37.57' & 43.07' 7598 7599

JON N. & KRISTIN H. MARKING

17

LOT 1 VOL 6, OF CSM'S PAGE 1390

NW-SW SEC. 2

OF VERNON HOHL

18

MICHAEL J. HOPPE, LC

19

NOTE:
THE TLE FOR DRIVES AND SLOPES SHOWN ON PARCEL 18 WILL NOT BE ACQUIRED BY THE CITY OF BARABOO FOR USE IN THIS PROJECT. NO WORK IS ALLOWED OFF EXISTING RIGHT-OF-WAY IN THIS LOCATION

GPK, LLC

16

LOT 1 VOL 13, OF CSM'S PAGE 2904

T 11 N (3 2 3 2) R 6 E
Y = 233,519.321
X = 646,476.375
NAIL
STA. 126+44.41
1.85' RIGHT

T 11 N (3 2 10 11) R 6 E
Y = 230,872.323
X = 646,480.097
1¼" IRON ROD

PATE STREET

N 00° 11' 57" E

MATCH LINE — SEE SHEET

SIXTEENTH

NE-SW SEC. 2

BARABOO

REVISION DATE 11-30-2010 10-14-2013 REVISED TV SYMBOL TO FO FOR PARCEL 83. ADDED NOTE TO PARCEL 18.	DATE 9-15-2010	SCALE, FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.09	
	GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 98	E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040107_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

Y = 233,519.321
X = 646,476.375
NAIL
STA. 126+44.41
1.85' RIGHT

T 12 N, R 6 E, Sec. 34

Y = 236,283.650
X = 646,456.230
COUNTY MONUMENT

CITY

JAMES D.
WEICKGENANT

T 11 N, R 6 E, Sec. 3

CURVE TABLE				
CURVE	CURVE LENGTH	CHORD LENGTH	CHORD BEARING	RADIUS
C25	548.36'	544.86'	N 78°38'45" E	1,399.39'
C26	692.87'	686.43'	N 76°19'35" E	1,465.39'
C37	210.37'	210.19'	S 82°15'55" W	1,469.39'
C38	267.90'	267.53'	N 83°22'10" E	1,465.39'
C39	70.88'	70.87'	N 76°44'47" E	1,465.39'
C40	31.03'	31.03'	S 75°57'37" W	1,480.39'
C41	41.09'	41.09'	S 77°21'45" W	1,469.39'
C42	30.72'	30.72'	N 68°45'19" E	1,465.39'
C43	30.89'	30.89'	S 68°45'19" W	1,473.39'
C44	36.04'	36.04'	S 65°39'07" W	1,473.39'
C45	35.84'	35.84'	N 65°39'09" E	1,465.39'
C68	153.58'	153.51'	S 72°21'30" W	1,465.39'
C69	5.00'	5.00'	S 62°52'44" W	1,465.39'
C70	113.29'	113.26'	S 64°59'45" W	1,465.39'
C72	21.93'	21.93'	S 66°46'55" W	1,465.39'
C73	50.52'	50.51'	S 63°57'51" W	1,465.39'
C75	24.15'	24.15'	S 67°40'58" W	1,465.39'

CURVE DATA
P.I. = 143+53.14
Y = 233,518.944
X = 648,185.106
DELTA = 34° 02' 02" (LT)
D = 4° 00' 04"
T = 438.27'
L = 850.62'
R = 1,432.00'
P.C. = 139+14.87
P.T. = 147+65.49

PME PARTNERS, LLC

CURVE DATA
P.I. = 20+64.81
Y = 233,709.780
X = 648,320.816
DELTA = 24° 32' 55" (RT)
D = 32° 44' 26"
T = 38.08'
L = 74.98'
R = 175.00'
P.C. = 20+26.73
P.T. = 21+01.71

SE-NW SEC. 2

POT 21+99.54

HITCHCOCK STREET R/W ℄ AND CONSTRUCTION ℄

LOT 1

HITCHCOCK STREET

N 00°11'19" W

N 00°17'52" W

PT 21+01.71

21+00

PLAT OF VICTORY HEIGHTS

PACJETS LTD.

LOT 3

LOT 2

145+62.46 (7070) 42.27'

SLOPE INTERCEPTS

146+86.16 (7071) 42.49'

N 61° 35' 00" E 120.00'

PC 20+26.73

N 24°44'14" W

N 56°38'00" E 130.00'

STA. 145+35.00 SOUTH BOULEVARD
STA. 20+00.00 HITCHCOCK STREET

STA. 146+23.00 SOUTH BOULEVARD
STA. 30+00.00 WALDO STREET

N 28°15'30" W

PT 29+84.02

N 56°02'27" E

PT 147+65.49

MATCH LINE SEE SHEET 4.11

MATCH LINE SEE SHEET 4.09

142+00

143+00

144+00

145+00

146+00

147+00

148+00

SOUTH BOULEVARD

CTH W

SOUTH BLVD. R/W ℄ AND CONSTRUCTION ℄

SLOPE INTERCEPTS

STA. 142+15.76 (7600) 33.93'

STA. 142+14.97 (7603) 37.93'

142+85.00 (7606) 34.05' & 49.05' (7607)

142+55.00 (7604) 38.00' & 49.00' (7605)

144+83.46 (7590) 31.62'

144+88.58 (7613) 34.39'

144+35.00 (7608) 34.30' & 42.30' (7609)

144+65.00 (7835) 34.35' & 42.35' (7836)

145+10.00 (7837) 34.42' & 42.42' (7838)

145+45.00 (7839) 34.48' & 42.48' (7840)

145+94.33 (7763) 34.56'

145+96.98 (7762) 39.01'

MICHAEL J. HOPPE, LC (19)

T.L.E. DRIVES & SLOPES

QUARTER

15'

4'

8'

C25 C26=TOTAL R/W C68 C37 C38 C39 C40 C41 C42 C43 C44 C45 C75 C72 C70=TOTAL PARCEL C73 C69

S 58°33'02" E 5.21'

N 00°01'12" E 5.00'

7436

AMERIGAS PROPANE LP
PETROLANE GAS SERVICE
LIMITED PARTNERSHIP (21)

Y = 230,872.323
X = 646,480.097
1 1/4" IRON ROD

S 89°51'36" E 1,945.07'

NE-SW SEC. 2

OF

POINTON ENTERPRISES, LLC (22)

OUTLOT 1

Y = 233,512.920
X = 649,096.850
3/4" IRON ROD

675.41'

LINE

N 00°01'12" E 128.81' (133.81' TO BLOCK CORNER)

PC 28+95.20

29+00

WALDO STREET

PC 28+01.40

N 00°49'22" E

KEVIN M. BARTOL, DC

146+71.95 (2585) 35.98'

N 59°15'02" E 123.56'

147+93.03 (7092) 39.77'

FIRST ADDITION TO VICTORY HEIGHTS BLOCK I

LOT 1

LOT 3

LOT 6

LOT 4

BARABOO

CURVE DATA
P.I. = 29+40.59
Y = 233,636.119
X = 648,455.735
DELTA = 29° 04' 52" (LT)
D = 32° 44' 26"
T = 45.39'
L = 88.82'
R = 175.00'
P.C. = 28+95.20
P.T. = 29+84.02

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	PLAT OF VICTORY HEIGHTS	VARIES	1942
	STATE AID PROJECT NO. 1017	66'	UNK.
	FIRST ADDITION TO VICTORY HEIGHTS	VARIES	1946
HITCHCOCK ST.	PLAT OF VICTORY HEIGHTS	66'	1942
WALDO ST.	FIRST ADDITION TO VICTORY HEIGHTS	66'	1946

REVISION DATE 11-30-2010
10-14-2013 NO CHANGES

DATE 9-15-2010

GRID FACTOR

SCALE, FEET 0 20 40

HWY: SOUTH BOULEVARD

COUNTY: SAUK

STATE R/W PROJECT NUMBER 5988-00-04

CONSTRUCTION PROJECT NUMBER 5988-00-74

PLAT SHEET 4.10

PS&E SHEET 99

E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040108_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

WISDOT/CADDS SHEET 75

CURVE TABLE

CURVE	CURVE LENGTH	CHORD LENGTH	CHORD BEARING	RADIUS
C13	72.90'	71.74'	N 17°40'41" W	117.53'

SIGN SCHEDULE

SIGN NUMBER	OWNER	STATION	OFFSET
E-1	PACJETS LTD.	148+82	37.9'
E-2	PACJETS LTD.	149+09	43.5'
E-3	PACJETS FINANCIAL LTD.	148+66	38.2'

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	PLAT OF VICTORY HEIGHTS	VARIES	1942
	STATE AID PROJECT NO. 1017	66'	UNK.
	FIRST ADDITION TO VICTORY HEIGHTS	VARIES	1946
HIGHLAND DR.	FIRST ADDITION TO VICTORY HEIGHTS	50'	1946

CITY

PACJETS LTD.

LOT 14

LOT 15

PLAT OF VICTORY HEIGHTS

LOT 16 LOT 17 LOT 18 LOT 19

SE-NW SEC. 2

GN

T 12 N R 6 E / T 11 N R 6 E — 35 35 2 2

Y = 236,271.747
X = 649,100.391
COUNTY MONUMENT

CITY OF BARABOO

MYRON PARK

148+00
4.10

N 56°38'00" E
130.00'

148+18.54
43.28'

7072

E-1

E-2

E-3

N 55°55'41" E 1,013.58'

SLOPE INTERCEPTS

154+00
4.12

N 00°04'25" E
2,138.23'

STA. 149+85.03

SOUTH BOULEVARD

STA. 154+27.41

+00 +50 149+00 +50 150+00 N 56°02'27" E +50 151+00 +50 152+00 +50 153+00 +50 154

83'

CTH W

SOUTH BLVD. R/W & CONSTRUCTION ℄

S 33°57'33" E
39.39'

149+85.03
39.39'

7076

N 55° 55' 41" E 142.00'

7090

149+35.03
39.49'

50'

SLOPE INTERCEPTS

PACJETS FINANCIAL LTD.

LOT 2 BLOCK 1 FIRST ADDITION TO VICTORY HEIGHTS

LOT 3

LOT 4

N 00° 05' 29" E

HIGHLAND DRIVE

VACATED STREET

VARIES

N 34° 04' 19" W

FRANK M. & CHERI L. NECKAR

23

LOT 2

T.L.E. DRIVE 12'

SLOPE INTERCEPTS

150+60.00
39.24' & 51.24'

7620 7621

150+96.00
39.17' & 51.17'

7622 7623

LOT 1

N 55° 55' 41" E 932.27'

GPK, LLC

LOT 3 LOT 4 LOT 5 LOT 6 LOT 7 LOT 8

BLOCK 4 FIRST ADDITION TO VICTORY HEIGHTS

Y = 233,512.920
X = 649,096.850
¾" IRON ROD

N 00°51'18" E LINE
620.59'

QUARTER

N 00°51'18" E
2,645.90'

Y = 230,867.310
X = 649,136.330
COUNTY MONUMENT

SW-NW SEC. 2

BARABOO

MATCH LINE SEE SHEET

4

REVISION DATE 11-30-2010 10-14-2013 NO CHANGES	DATE 9-15-2010	SCALE, FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.11
	GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 100 E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040109_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

WISDOT/CADDS SHEET 75

4

CURVE TABLE

CURVE	CURVE LENGTH	CHORD LENGTH	CHORD BEARING	RADIUS
C1	96.31'	95.42'	N 20°36'50" W	205.00'
C2	72.82'	72.15'	N 20°36'50" W	155.00'
C4	38.42'	37.97'	S 18°17'22" E	71.97'
C5	65.55'	64.76'	S 18°23'21" E	121.97'
C74	4.00'	4.00'	N 32°50'41" W	121.97'

PARCEL 26

COURSE	BEARING	DISTANCE
7080-7081	N 55°55'41" E	86.68'
7081-7636	N 88°42'40" E	1.85'
7636-7633	S 55°55'41" W	88.23'
7633-7080	N 33°47'04" W	1.00'

ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	PLAT OF VICTORY HEIGHTS	VARIES	1942
	STATE AID PROJECT NO. 1017	66'	UNK.
	FIRST ADDITION TO VICTORY HEIGHTS	VARIES	1946
HIGHLAND DR.	FIRST ADDITION TO VICTORY HEIGHTS	50'	1946
BADGER DR.	PLAT OF VICTORY HEIGHTS	50'	1942

CITY SEC.-NW SEC. 2

T 12 N R 6 E, T 11 N R 6 E, 35, 35, 2, 2

Y = 236,271.747
X = 649,100.391
COUNTY MONUMENT

2,138.23' LINE

PLAT OF VICTORY HEIGHTS

LOT 19 LOT 20 LOT 21 LOT 22 LOT 23 LOT 24 LOT 25 LOT 27

CITY OF BARABOO

MYRON PARK

154+00 4.11

N 55° 55' 41" E 1013.58' PL

SLOPE INTERCEPTS

QUARTER

N 00°04'25" E 620.59'

STA. 154+27.41

SOUTH BOULEVARD

CTH W

N 56°02'27" E

SOUTH BLVD. R/W ℄ AND CONSTRUCTION ℄

BADGER DRIVE

N 7° 09' 20" W

LOT 21

CITY OF BARABOO SWIMMING POOL

27

T.L.E. DRIVES & SLOPES

7061 158+32.12 45.28'

7694 159+84.65 47.58'

158+82.12 45.38' 7063

7321 159+83.38 45.58'

50'

N 55° 55' 41" E 101.26'

PL

S 01°34'19" W 14.23'

SLOPE INTERCEPTS

7322 159+75.76 33.56'

N 55°55'41" E 121.77'

160+00 4.13

STA. 159+75.76

STA. 159+67.31

S 33°57'33" E 32.45'

7080 159+67.31 32.45'

7633 159+67.31 33.45'

PL

7077 159+17.29 37.55'

S 33°47'04" E 4.00'

7695 159+67.22 41.45'

SLOPE INTERCEPTS

T.L.E. SLOPES

52.66'

MATCH LINE SEE SHEET

MATCH LINE SEE SHEET

LOT 8 GPK, LLC

LOT 9

LOT 10 LOT 11 LOT 12 LOT 13 LOT 14

SCOTT T. & BETH A. MULOCK

QUINDT & QUINDT, LLC

LOT 15 LOT 16

BARABOO

HIGHLAND DRIVE

SAUK COUNTY FARM BUREAU COOPERATIVE

26

LOT 1 LOT 2

BLOCK 4 FIRST ADDITION TO VICTORY HEIGHTS

BLOCK 3 FIRST ADDITION TO VICTORY HEIGHTS

SW-NE SEC. 25

N 00°51'18" E 2,645.90'

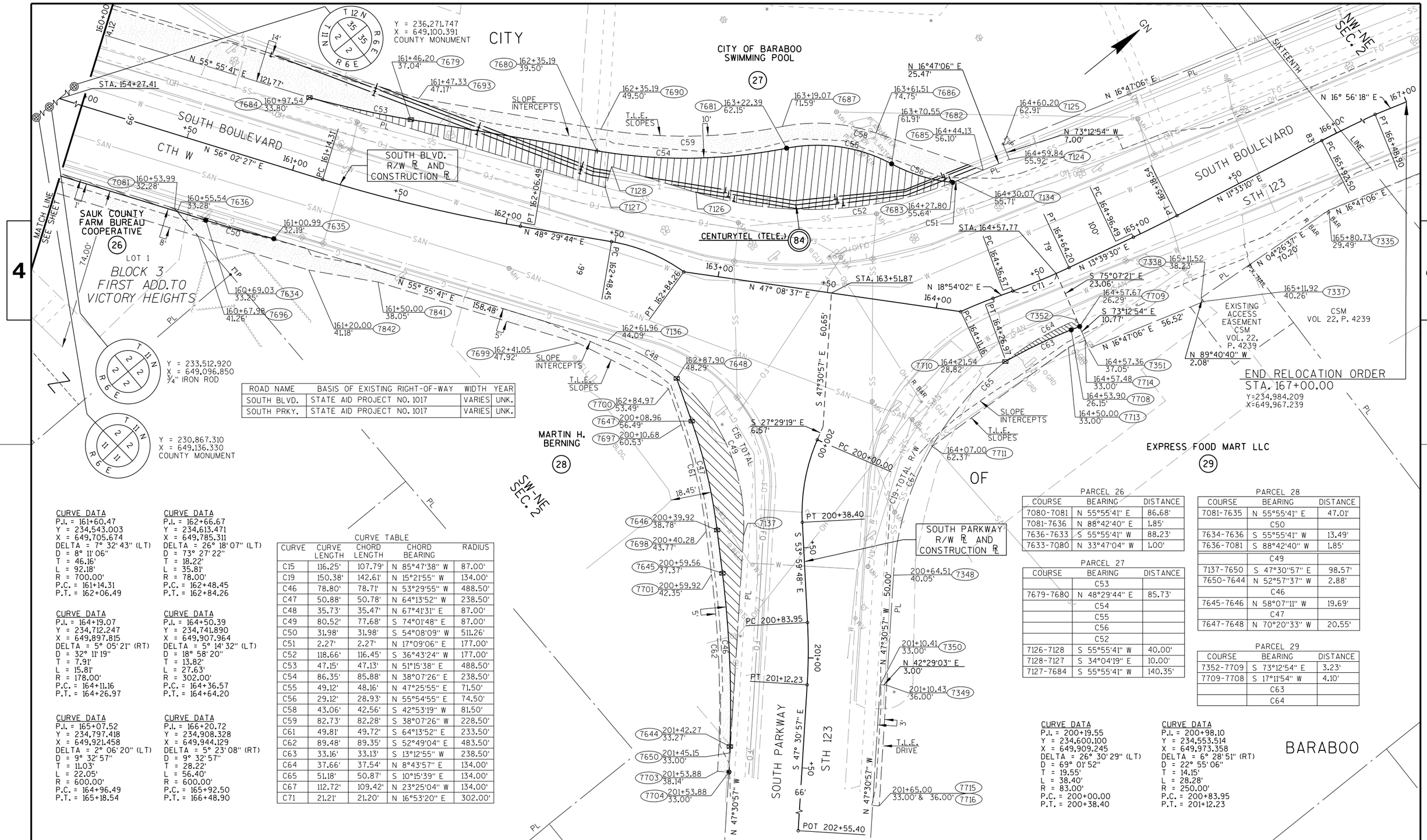
Y = 233,512.920
X = 649,096.850
¾" IRON ROD

Y = 230,867.310
X = 649,136.330
COUNTY MONUMENT

REVISION DATE 11-30-2010 10-14-2013 REMOVED OVERHEAD POWER LINES ACROSS HIGHLAND DRIVE	DATE 9-15-2010	SCALE, FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.12	
	GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 101	E

FILE NAME : J:\Jobs2005\20055028\CAD\Site\DGN\00\GB\040110_rp.dgn PLOT DATE : 2/3/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.000080 ft / in.

WISDOT/CADDS SHEET 75



ROAD NAME	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
SOUTH BLVD.	STATE AID PROJECT NO. 1017	VARIES	UNK.
SOUTH PRKY.	STATE AID PROJECT NO. 1017	VARIES	UNK.

CURVE DATA
P.I. = 161+60.47
Y = 234,543.003
X = 649,705.674
DELTA = 7° 32' 43" (LT)
D = 8° 11' 06"
T = 46.16'
L = 92.18'
R = 700.00'
P.C. = 161+14.31
P.T. = 162+06.49

CURVE DATA
P.I. = 162+66.67
Y = 234,613.471
X = 649,785.311
DELTA = 26° 18' 07" (LT)
D = 73° 27' 22"
T = 18.22'
L = 35.81'
R = 78.00'
P.C. = 162+48.45
P.T. = 162+84.26

CURVE DATA
P.I. = 164+19.07
Y = 234,712.247
X = 649,897.815
DELTA = 5° 05' 21" (RT)
D = 32° 11' 19"
T = 7.91'
L = 15.81'
R = 178.00'
P.C. = 164+11.16
P.T. = 164+26.97

CURVE DATA
P.I. = 164+50.39
Y = 234,741.890
X = 649,907.964
DELTA = 5° 14' 32" (LT)
D = 18° 58' 20"
T = 13.82'
L = 27.63'
R = 302.00'
P.C. = 164+36.57
P.T. = 164+64.20

CURVE DATA
P.I. = 165+07.52
Y = 234,797.418
X = 649,921.458
DELTA = 2° 06' 20" (LT)
D = 9° 32' 57"
T = 11.03'
L = 22.05'
R = 600.00'
P.C. = 164+96.49
P.T. = 165+18.54

CURVE DATA
P.I. = 166+20.72
Y = 234,908.328
X = 649,944.129
DELTA = 5° 23' 08" (RT)
D = 9° 32' 57"
T = 28.22'
L = 56.40'
R = 600.00'
P.C. = 165+92.50
P.T. = 166+48.90

CURVE TABLE

CURVE	CURVE LENGTH	CHORD LENGTH	CHORD BEARING	RADIUS
C15	116.25'	107.79'	N 85°47'38" W	87.00'
C19	150.38'	142.61'	N 15°21'55" W	134.00'
C46	78.80'	78.71'	N 53°29'55" W	488.50'
C47	50.88'	50.78'	N 64°13'52" W	238.50'
C48	35.73'	35.47'	N 67°41'31" E	87.00'
C49	80.52'	77.68'	S 74°01'48" E	87.00'
C50	31.98'	31.98'	S 54°08'09" W	511.26'
C51	2.27'	2.27'	N 17°09'06" E	177.00'
C52	118.66'	116.45'	S 36°43'24" W	177.00'
C53	47.15'	47.13'	N 51°15'38" E	488.50'
C54	86.35'	85.88'	N 38°07'26" E	238.50'
C55	49.12'	48.16'	N 47°25'55" E	71.50'
C56	29.12'	28.93'	N 55°54'55" E	74.50'
C58	43.06'	42.56'	S 42°53'19" W	81.50'
C59	82.73'	82.28'	S 38°07'26" W	228.50'
C61	49.81'	49.72'	S 64°13'52" E	233.50'
C62	89.48'	89.35'	S 52°49'04" E	483.50'
C63	33.16'	33.13'	S 13°12'55" W	238.50'
C64	37.66'	37.54'	N 8°43'57" E	134.00'
C65	51.18'	50.87'	S 10°15'39" E	134.00'
C67	112.72'	109.42'	N 23°25'04" W	134.00'
C71	21.21'	21.20'	N 16°53'20" E	302.00'

PARCEL 26

COURSE	BEARING	DISTANCE
7080-7081	N 55°55'41" E	86.68'
7081-7636	N 88°42'40" E	1.85'
7636-7633	S 55°55'41" W	88.23'
7633-7080	N 33°47'04" W	1.00'

PARCEL 27

COURSE	BEARING	DISTANCE
	C53	
7679-7680	N 48°29'44" E	85.73'
	C54	
	C55	
	C56	
	C52	
7126-7128	S 55°55'41" W	40.00'
7128-7127	S 34°04'19" E	10.00'
7127-7684	S 55°55'41" W	140.35'

PARCEL 28

COURSE	BEARING	DISTANCE
7081-7635	N 55°55'41" E	47.01'
	C50	
7634-7636	S 55°55'41" W	13.49'
7636-7081	S 88°42'40" W	1.85'
	C49	
7137-7650	S 47°30"57" E	98.57'
7650-7644	N 52°57"37" W	2.88'
	C46	
7645-7646	N 58°07"11" W	19.69'
	C47	
7647-7648	N 70°20"33" W	20.55'

PARCEL 29

COURSE	BEARING	DISTANCE
7352-7709	S 73°12'54" E	3.23'
7709-7708	S 17°11'54" W	4.10'
	C63	
	C64	

CURVE DATA
P.I. = 200+19.55
Y = 234,600.100
X = 649,909.245
DELTA = 26° 30' 29" (LT)
D = 69° 01' 52"
T = 19.55'
L = 38.40'
R = 83.00'
P.C. = 200+00.00
P.T. = 200+38.40

CURVE DATA
P.I. = 200+98.10
Y = 234,553.514
X = 649,973.358
DELTA = 6° 28' 51" (RT)
D = 22° 55' 06"
T = 14.15'
L = 28.28'
R = 250.00'
P.C. = 200+83.95
P.T. = 201+12.23

REVISION DATE 11-30-2010 10-14-2013 REVISED OVERHEAD POWER LINES AND UNDERGOUND TELEPHONE.	DATE 9-15-2010	SCALE: FEET 0 20 40	HWY: SOUTH BOULEVARD	STATE R/W PROJECT NUMBER 5988-00-04	PLAT SHEET 4.13
	GRID FACTOR		COUNTY: SAUK	CONSTRUCTION PROJECT NUMBER 5988-00-74	PS&E SHEET 102 E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
15	103+33.76, 25.90' LT	CHISELED "X" ON N.W. TOP FLANGE BOLT OF HYDRANT #485	935.21

PROPOSED R/W

JAMES D.
(JAMES L.)
LOECHLER

ADDITIONAL SITE WORK AT THIS LOCATION TO BE COMPLETED BY OTHERS OUTSIDE OF RIGHT-OF-WAY. CONTRACTOR AND PROJECT ENGINEER TO COORDINATE WITH OWNER AND CITY OF BARABOO PRIOR TO COMPLETING WORK IN THIS LOCATION.

LOECHLER
PROPERTIES, LLC

TEMPORARY EASEMENT

LOECHLER
INVESTMENTS, LLC

N

B.M. #15

EXIST. R/W

MATCH EXISTING PAVEMENT

38.3'F-F

SOUTH BOULEVARD

100+00 +50 101+00 +50 102+00 +50 103+00 +50 104+00 +50 105

S 89° 55' 31" E

MATCH LINE STA. 105+00

U.S.H. 12

CAUTION

24.1'F-F

MATCH EXISTING PAVEMENT

R BAR

PROPOSED R/W

TEMPORARY EASEMENT

SLOPE INTERCEPTS

UTILITY EASEMENT

BEGIN PROJECT 5988-00-70
STA. 100+50.87
Y = 233,524.56
X = 643,882.84

ADDITIONAL SITE WORK AT THIS LOCATION TO BE COMPLETED BY OTHERS OUTSIDE OF RIGHT-OF-WAY. CONTRACTOR AND PROJECT ENGINEER TO COORDINATE WITH OWNER AND CITY OF BARABOO PRIOR TO COMPLETING WORK IN THIS LOCATION.

COMMONWEALTH CREDIT UNION

R BAR EXIST. R/W

EXIST. R/W

DEPPE TRANSIT, LLC

5

5

938 936 934 932 930 928 926 924 922

L = 70'
K = 70

VPC 102+05.00
EL. 932.15

VPT 102+75.00
EL. 932.15

EXISTING PROFILE

FINISHED PROFILE

932.58

-0.50% +0.50%

VPI 102+40.00
EL. 931.98

933.2 932.8 932.43 933.0 932.18 933.2 932.07 933.4 932.28 933.6 932.53 933.6 932.78 934.1 933.03 934.5 933.28

100+50 101+00 101+50 102+00 102+50 103+00 103+50 104+00 104+50 105+00

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN AND PROFILE	SHEET 103	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\050101_pp.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.

WISDOT/CADDS SHEET 35

ADDITIONAL SITE WORK AT THIS LOCATION TO BE COMPLETED BY OTHERS OUTSIDE OF RIGHT-OF-WAY. CONTRACTOR AND PROJECT ENGINEER TO COORDINATE WITH OWNER AND CITY OF BARABOO PRIOR TO COMPLETING WORK IN THIS LOCATION.

JUSTUS H. & ARLENE B. RATHJEN

JEFFREY R. & KATHLEEN BLUM

B.M. #14

CAUTION

OAK BLUFF VENTURE

TEMPORARY EASEMENT

B.M. #13

EXIST R/W

EXIST R/W

N

MATCH LINE STA. 105+00

MATCH LINE STA. 111+00

SOUTH BOULEVARD

105+00 +50 106+00 +50 107+00 +50 108+00 +50 109+00 +50 110+00 +50 111+00

S 89° 55' 31" E

46' F-F

R BAR

R BAR

PROP. R/W

DEPPE TRANSIT, LLC

TEMPORARY EASEMENT

HONEYWOOD ENTERPRISES, LLC
H.R. VOLLBRECHT

SLOPE INTERCEPTS

UTILITY EASEMENT

ADDITIONAL SITE WORK AT THIS LOCATION TO BE COMPLETED BY OTHERS OUTSIDE OF RIGHT-OF-WAY. CONTRACTOR AND PROJECT ENGINEER TO COORDINATE WITH OWNER AND CITY OF BARABOO PRIOR TO COMPLETING WORK IN THIS LOCATION.

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
14	107+55.12, 26.07'LT	CHISELED "X" ON N.W. TOP FLANGE BOLT OF HYDRANT #429	935.03
13	110+09.45, 26.64'LT	CHISELED "X" ON N.W. TOP FLANGE BOLT OF HYDRANT #428	926.89

VPI 108+10.00
EL. 934.83
+0.50%
-5.00%

EXISTING PROFILE

FINISHED PROFILE

VPC 105+90.00
EL. 933.73

L = 440'
K = 80

VPT 110+30.00
EL. 923.83

934 932 930 928 926 924 922 920 918

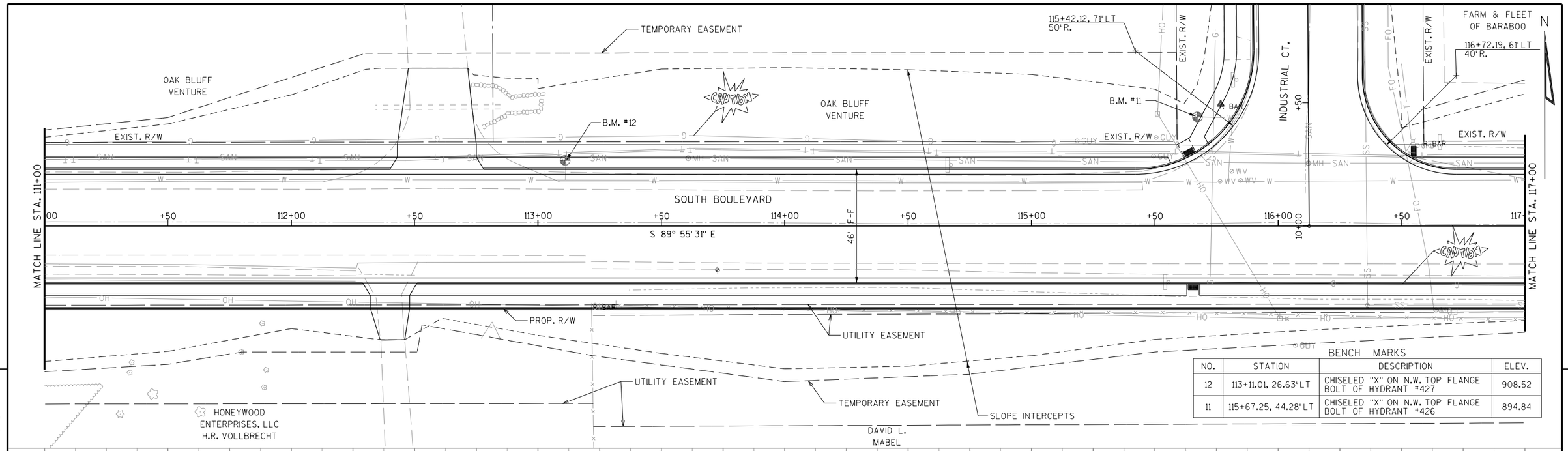
934.5 933.28 | 934.8 933.53 | 934.9 933.77 | 934.8 933.80 | 934.6 933.52 | 934.2 932.93 | 933.4 932.02 | 932.1 930.80 | 930.6 929.27 | 928.5 927.43 | 926.2 925.27 | 923.6 922.83 | 920.7 920.33

105+00 105+50 106+00 106+50 107+00 107+50 108+00 108+50 109+00 109+50 110+00 110+50 111+00

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN AND PROFILE	SHEET 104	E

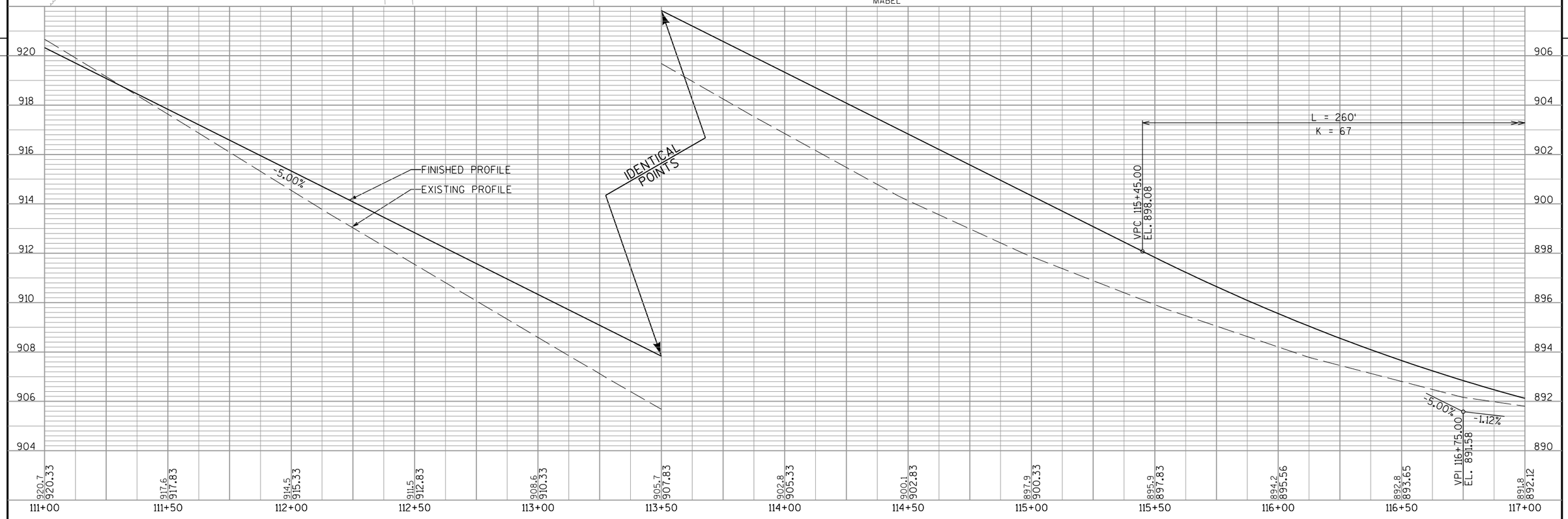
FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\050102_pp.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.

WISDOT/CADDS SHEET 35

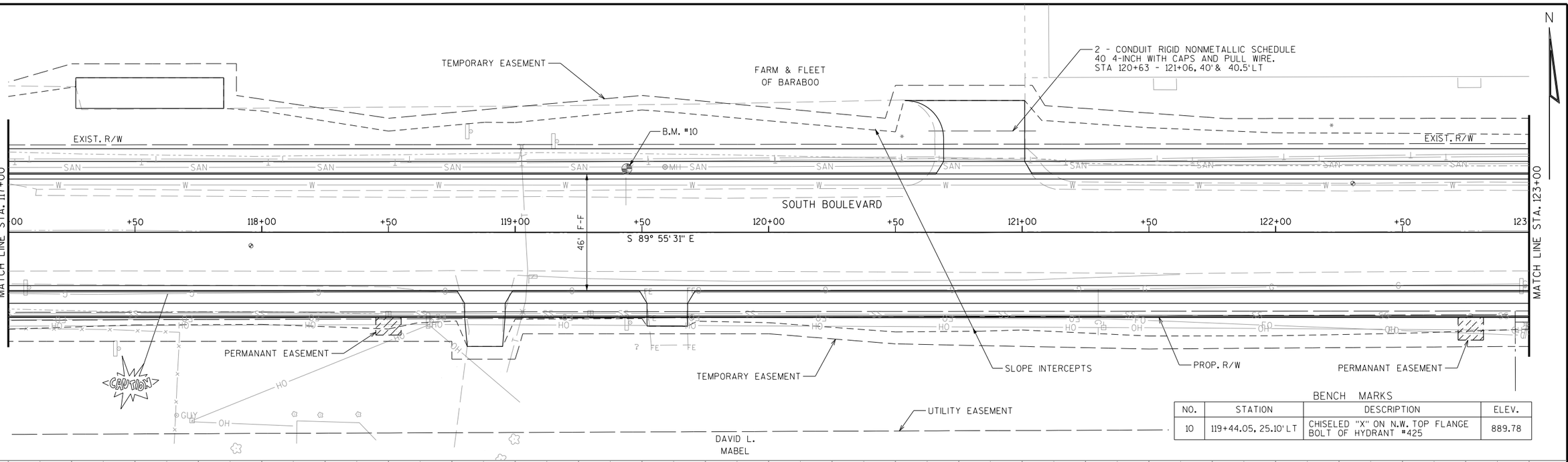


BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
12	113+11.01, 26.63' LT	CHISELED "X" ON N.W. TOP FLANGE BOLT OF HYDRANT #427	908.52
11	115+67.25, 44.28' LT	CHISELED "X" ON N.W. TOP FLANGE BOLT OF HYDRANT #426	894.84



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN AND PROFILE	SHEET 105	E



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN AND PROFILE	SHEET 106	E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
9	123+21.30, 24.63' LT	CHISELED "X" ON N.W. TOP FLANGE BOLT OF HYDRANT #424	888.88
8	126+79.90, 36.01' RT	CHISELED "X" ON N.W. TOP FLANGE BOLT OF HYDRANT #298	886.52

TEMPORARY EASEMENT
EXISTING FENCE TO REMAIN
BARABOO SYSCO FOOD SERVICE
BARABOO SYSCO FOODS
EXIST R/W
B.M. #9
R BAR
PROP. R/W
6" WIDE R.R. SAFE WALL
SOUTH BOULEVARD
MATCH LINE STA. 123+00
MATCH LINE STA. 129+00
46' F-F
S 89° 55' 31" E
CAUTION
B.M. #8
TEMPORARY EASEMENT
PROP. R/W
PERMANANT EASEMENT
126+06.44, 41' RT
20' R.
MOORE ST.
126+78.05, 41' RT
20' R.
EXIST. R/W
SIDEWALK EASEMENT
UTILITY EASEMENT
NORMAN L. & DARLENE A. SCHWEISS
SLOPE INTERCEPTS
SAWCUT AND MATCH EXISTING
NORMAN L. & DARLENE A. SCHWEISS
UTILITY EASEMENT

FINISHED PROFILE
EXISTING PROFILE
VPI 126+96.00
EL. 885.49
-0.50%
2.20%
VPC 126+26.00
EL. 885.84
VPT 127+66.00
EL. 883.95
L = 140'
K = 83

888.7 887.47 | 888.6 887.22 | 888.5 886.97 | 888.3 886.72 | 888.1 886.47 | 887.7 886.22 | 887.1 885.97 | 886.3 885.69 | 885.6 885.14 | 884.7 884.29 | 883.7 883.21 | 882.7 882.11 | 881.5 881.01

123+00 123+50 124+00 124+50 125+00 125+50 126+00 126+50 127+00 127+50 128+00 128+50 129+00

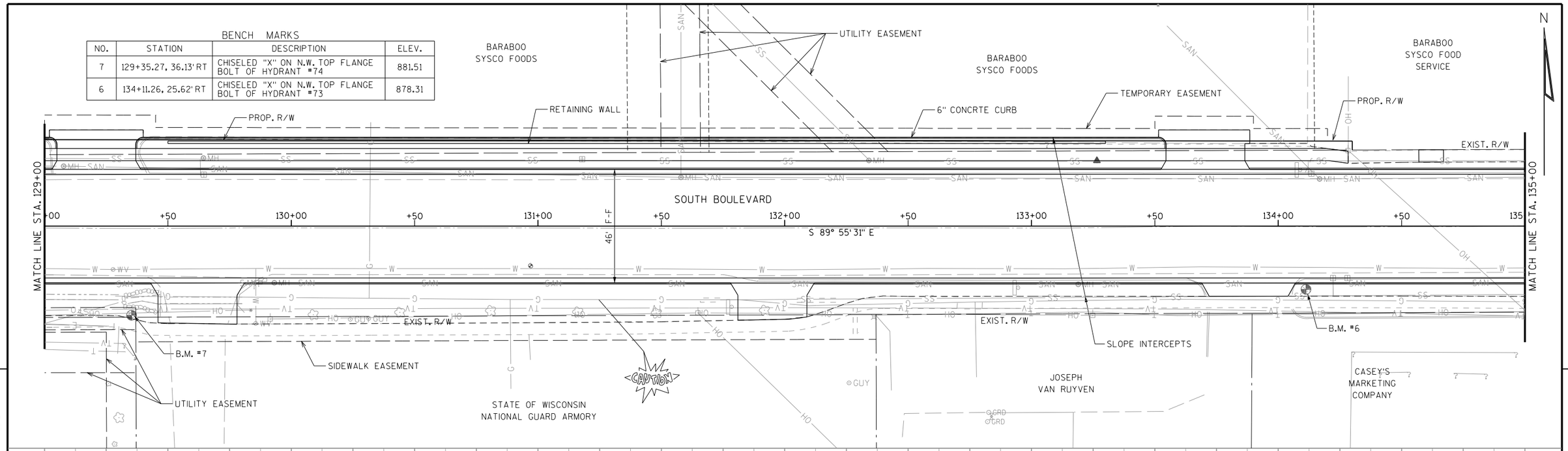
892 890 888 886 884 882 880 878 876

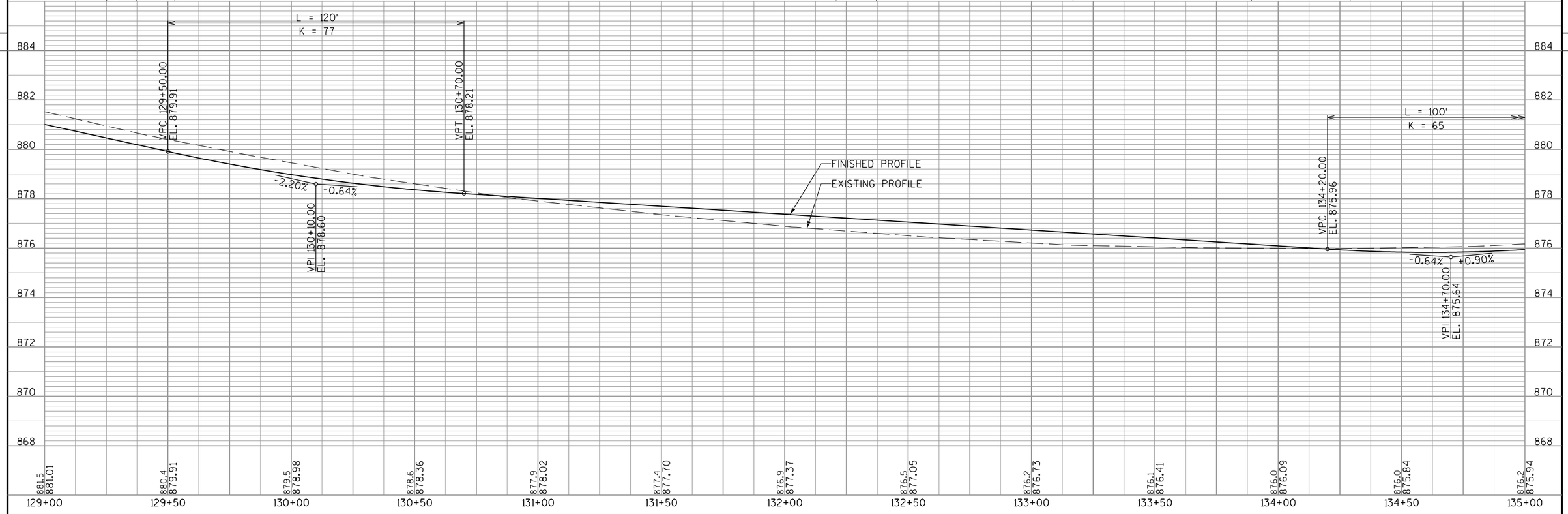
PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN AND PROFILE	SHEET 107 E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\050105_pp.dgn
PLOT DATE : 1/27/2014
PLOT BY : GRAEF
PLOT NAME :
PLOT SCALE : 40.0000 ft / in.
WISDOT/CADDS SHEET 35

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
7	129+35.27, 36.13' RT	CHISELED "X" ON N.W. TOP FLANGE BOLT OF HYDRANT #74	881.51
6	134+11.26, 25.62' RT	CHISELED "X" ON N.W. TOP FLANGE BOLT OF HYDRANT #73	878.31

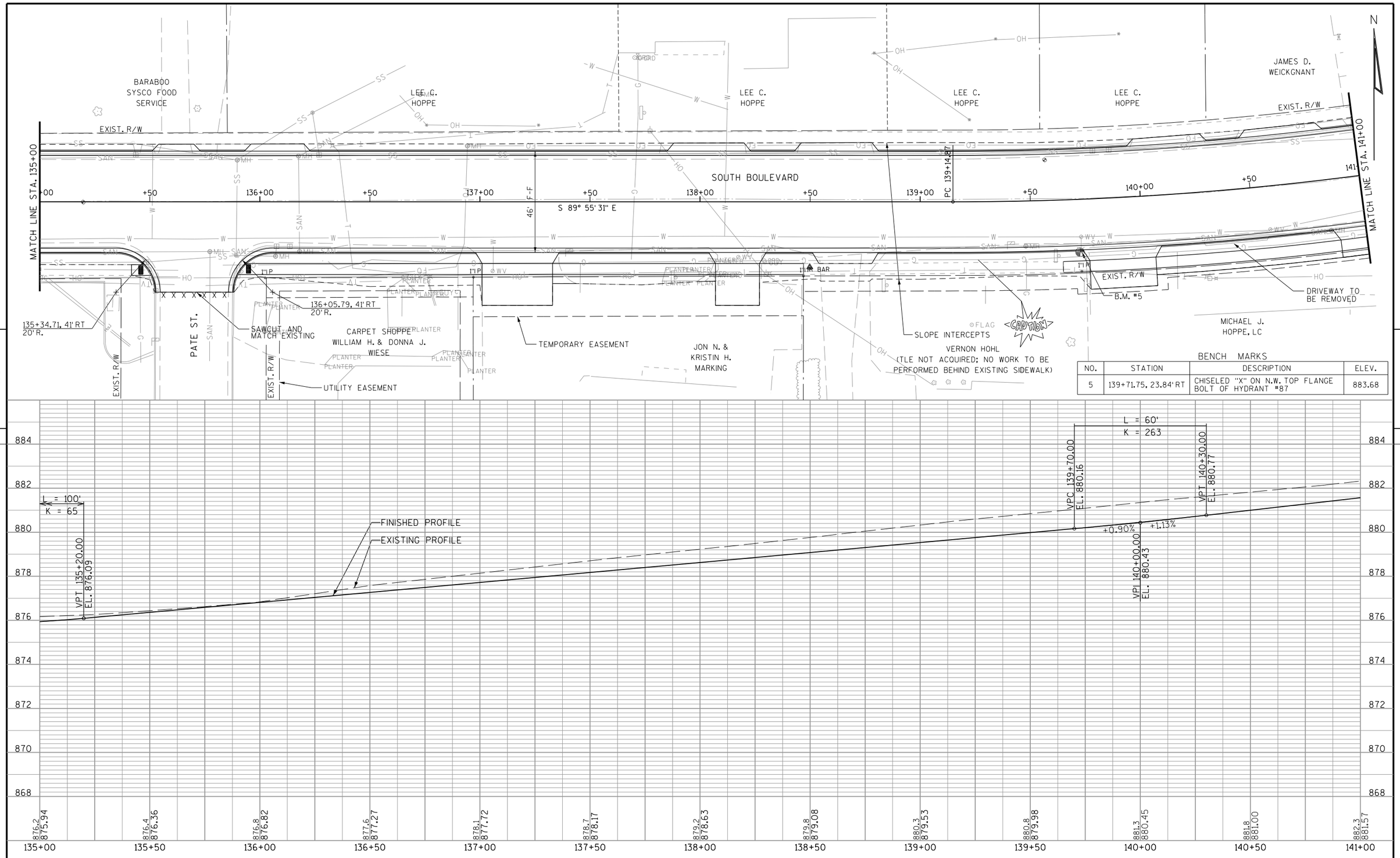




PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN AND PROFILE	SHEET 108	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\050106_pp.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 ft / in.

WISDOT/CADDS SHEET 35



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
5	139+71.75, 23.84' RT	CHISELED "X" ON N.W. TOP FLANGE BOLT OF HYDRANT #87	883.68

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN AND PROFILE	SHEET 109	E

BENCH MARKS

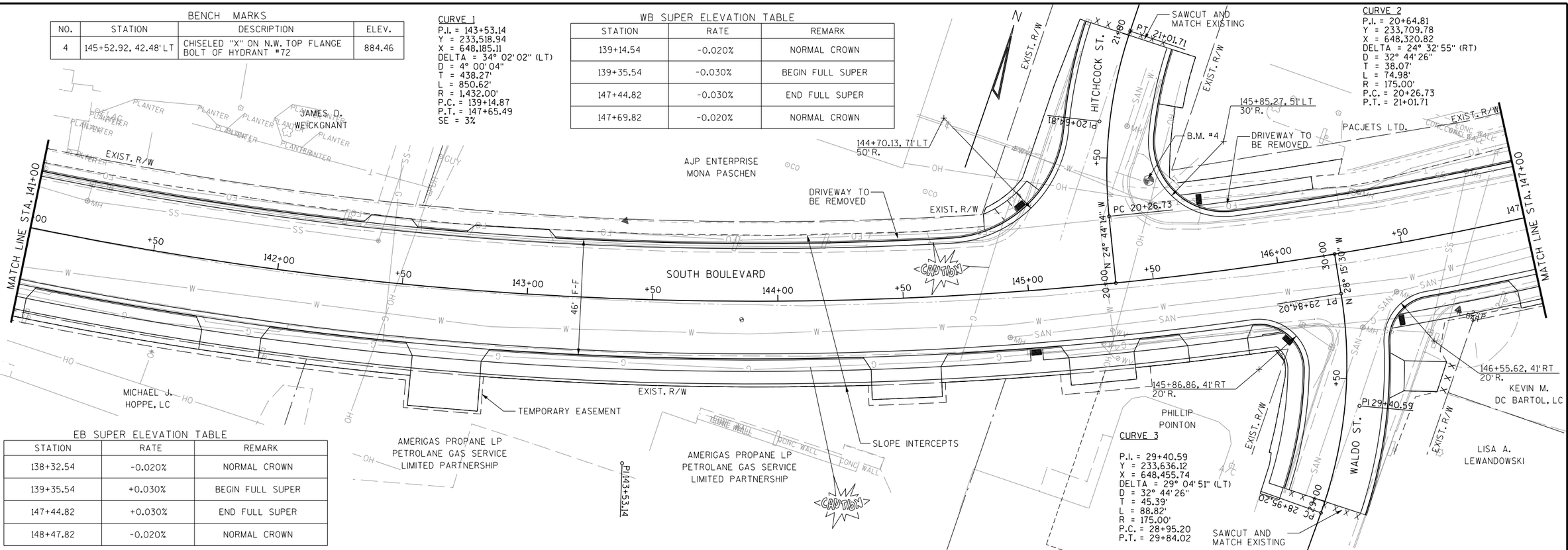
NO.	STATION	DESCRIPTION	ELEV.
4	145+52.92, 42.48' LT	CHISELED "X" ON N.W. TOP FLANGE BOLT OF HYDRANT #72	884.46

CURVE 1
P.I. = 143+53.14
Y = 233,518.94
X = 648,185.11
DELTA = 34° 02' 02" (LT)
D = 4° 00' 04"
T = 438.27'
L = 850.62'
R = 1,432.00'
P.C. = 139+14.87
P.T. = 147+65.49
SE = 3%

WB SUPER ELEVATION TABLE

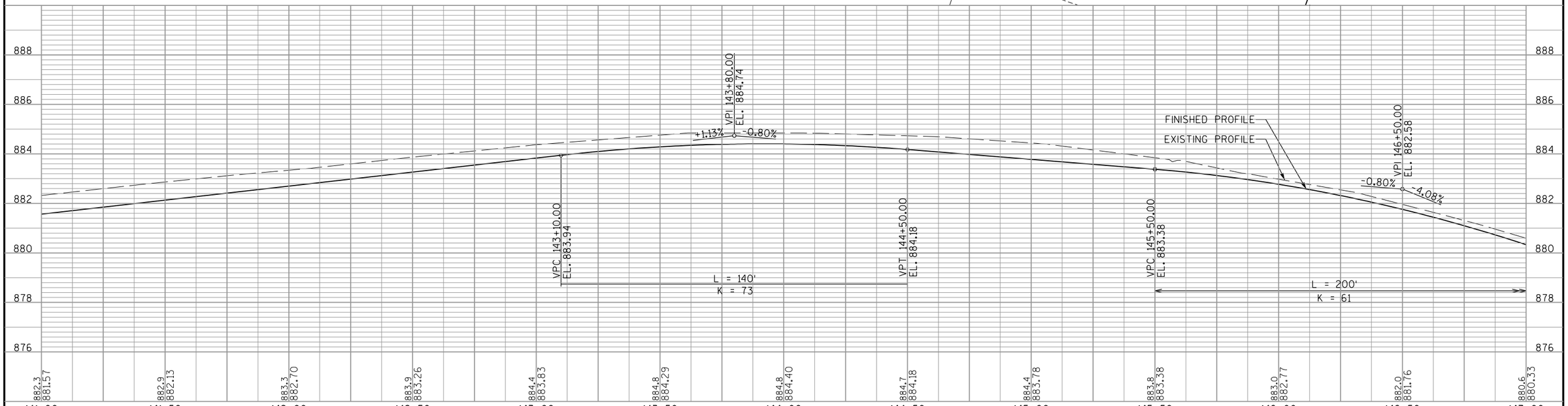
STATION	RATE	REMARK
139+14.54	-0.020%	NORMAL CROWN
139+35.54	-0.030%	BEGIN FULL SUPER
147+44.82	-0.030%	END FULL SUPER
147+69.82	-0.020%	NORMAL CROWN

CURVE 2
P.I. = 20+64.81
Y = 233,709.78
X = 648,320.82
DELTA = 24° 32' 55" (RT)
D = 32° 44' 26"
T = 38.07'
L = 74.98'
R = 175.00'
P.C. = 20+26.73
P.T. = 21+01.71



EB SUPER ELEVATION TABLE

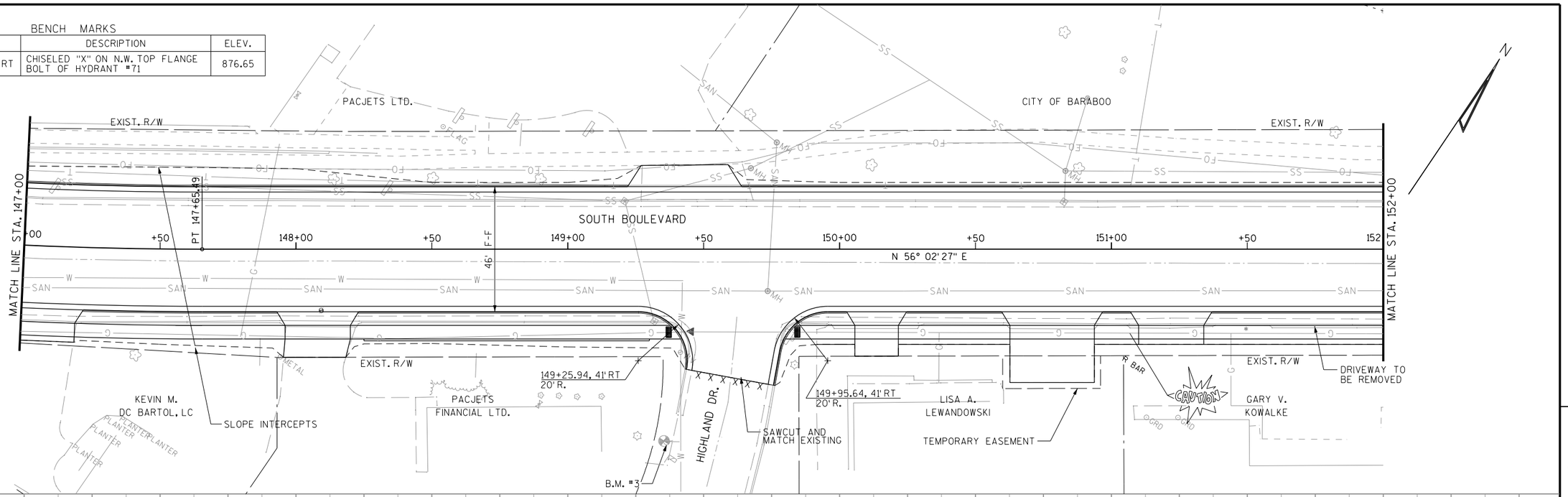
STATION	RATE	REMARK
138+32.54	-0.020%	NORMAL CROWN
139+35.54	+0.030%	BEGIN FULL SUPER
147+44.82	+0.030%	END FULL SUPER
148+47.82	-0.020%	NORMAL CROWN

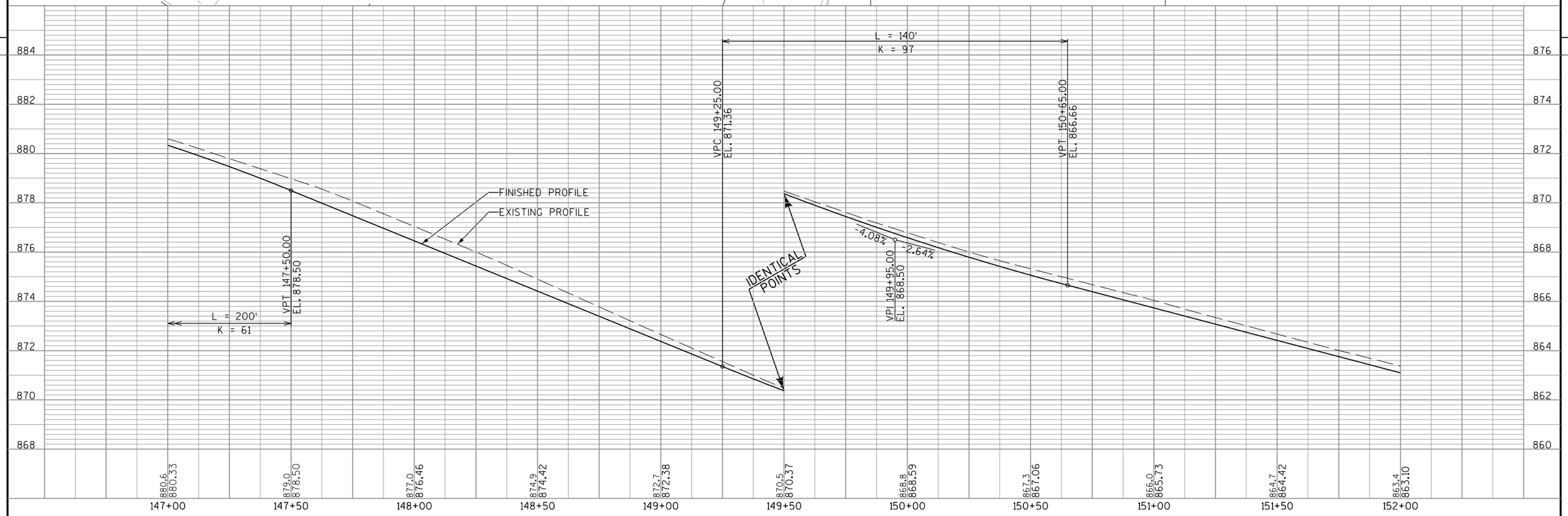


PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN AND PROFILE	SHEET 110	E

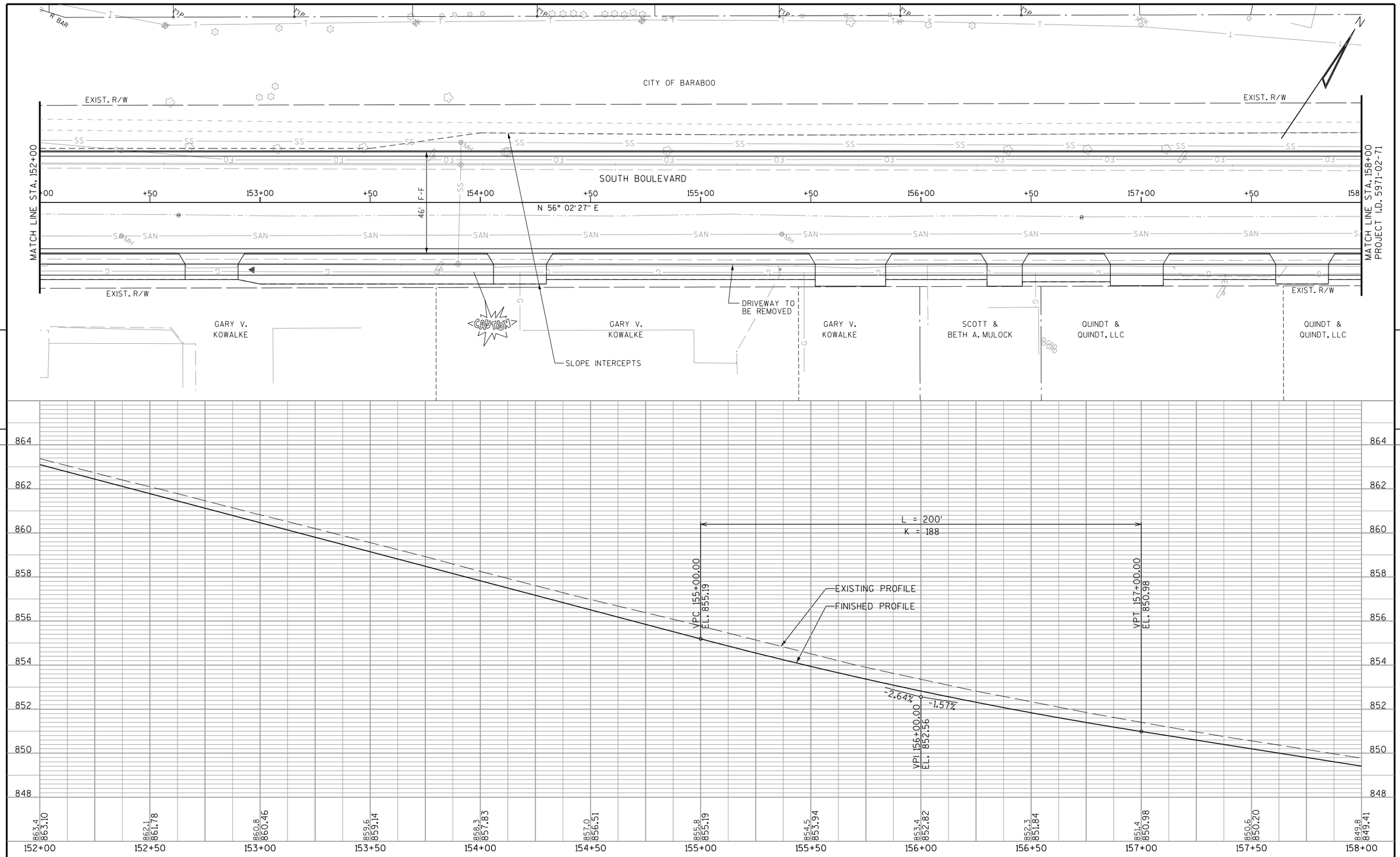
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
3	149+36.61, 65.51' RT	CHISELED "X" ON N.W. TOP FLANGE BOLT OF HYDRANT #71	876.65





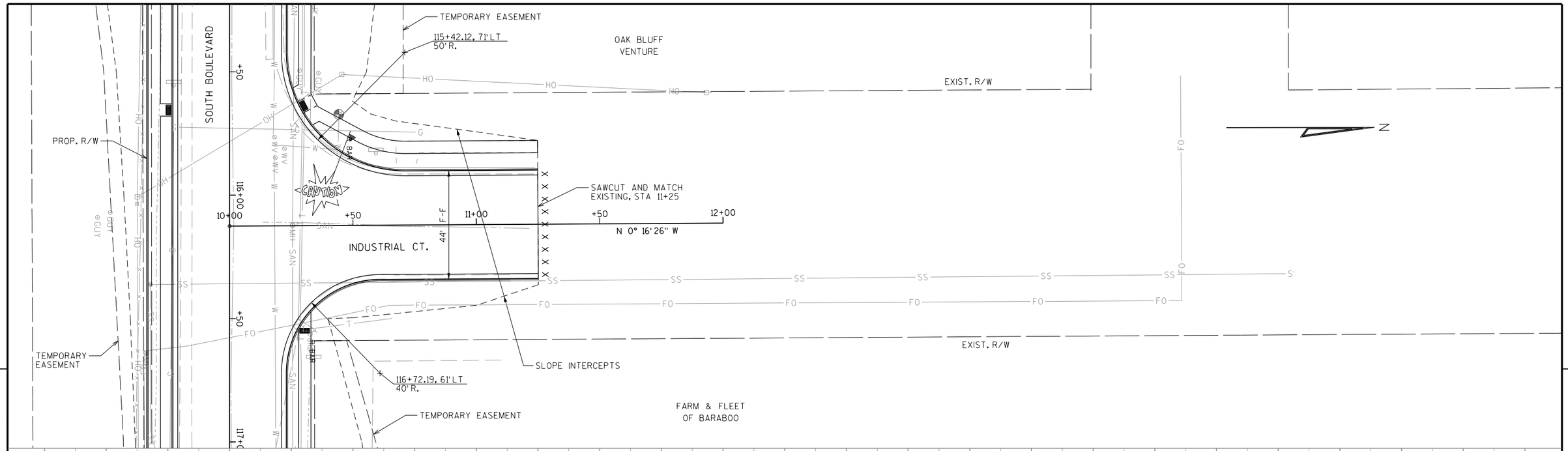
PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN AND PROFILE	SHEET 111	E



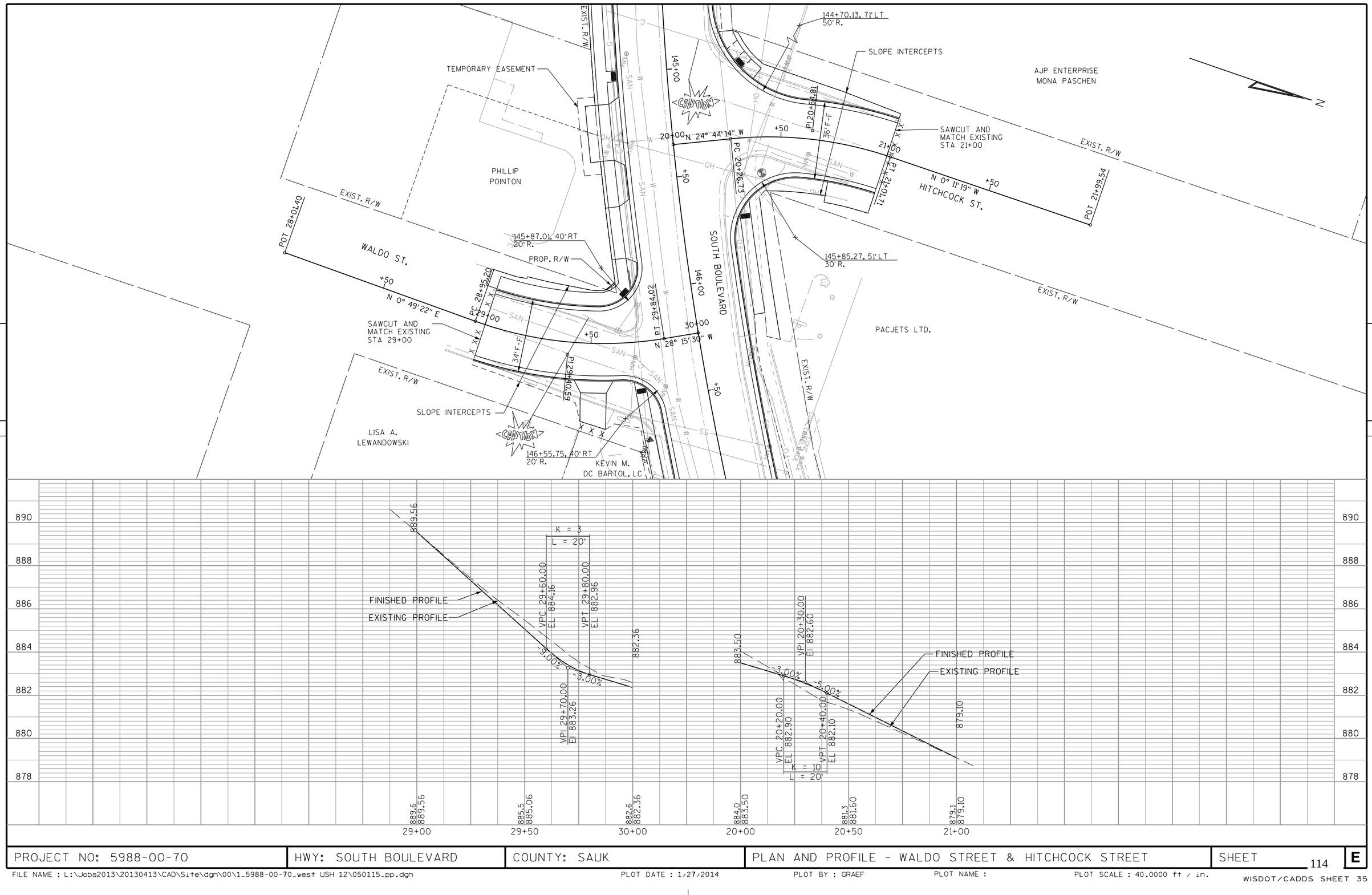
PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN AND PROFILE	SHEET 112	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\050110_pp.dgn | PLOT DATE : 1/27/2014 | PLOT BY : GRAEF | PLOT NAME : | PLOT SCALE : 40.0000 ft / in.

WISDOT/CADDS SHEET 35



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN AND PROFILE - INDUSTRIAL COURT	SHEET 113	E

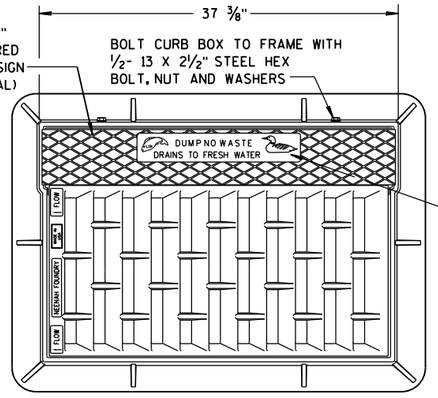


PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	PLAN AND PROFILE - WALDO STREET & HITCHCOCK STREET	SHEET 114	E

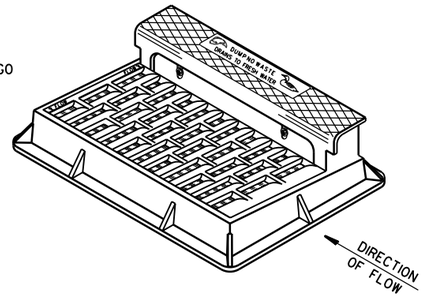
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08A08-01	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-15A	CURB RAMPS TYPES 1 AND 1-A
08D05-15B	CURB RAMPS TYPES 2 AND 3
08D05-15C	CURB RAMPS TYPES 4A AND 4A1
08D05-15D	CURB RAMPS TYPE 4B AND 4B1
08D05-15E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
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
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS
09B02-07	CONDUIT
09B04-10	PULL BOX
09C02-06	CONCRETE BASES, TYPES 1, 2 & 5
09C05-08	CONCRETE CONTROL CABINET BASES
09D01-04	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-02	SIGNAL OR LIGHTING CONTROL CABINET
09F15-03A	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)
11B02-02	CONCRETE MEDIAN NOSE
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-02	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C18-03	MEDIAN ISLAND MARKING
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D28-02	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-01	TRAFFIC CONTROL, SIDEWALK CLOSURE
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS

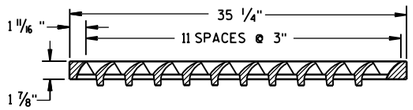
6

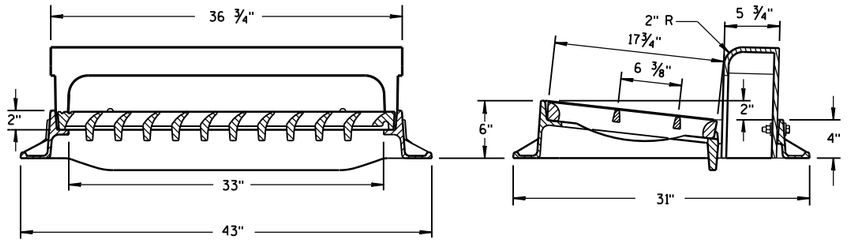


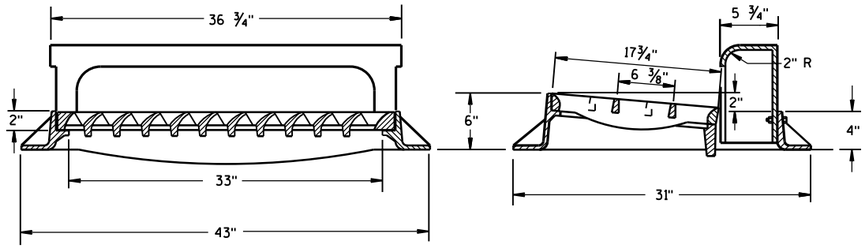
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

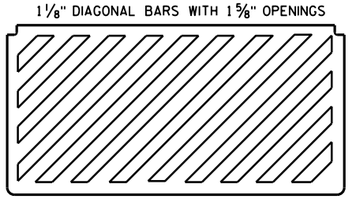






TYPE "H"

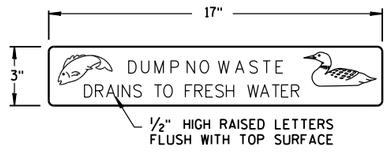
NOTE: EITHER CASTING IS ACCEPTABLE



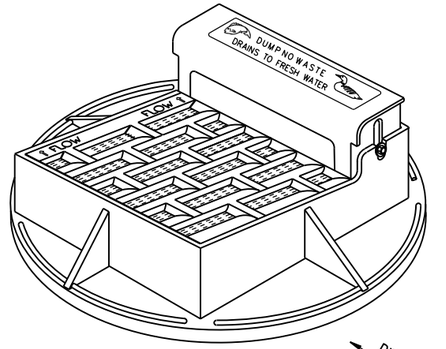
SPECIAL GRATE FOR TYPE "H" COVER

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

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

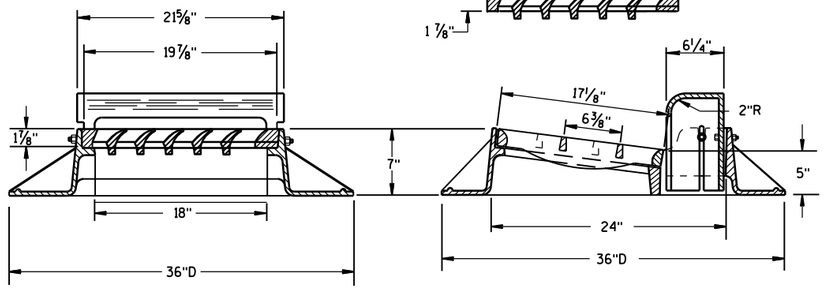


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



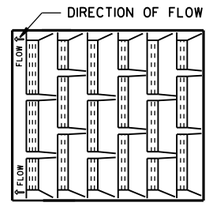
TYPE "A"

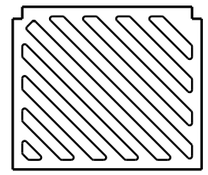
GENERAL NOTES

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.

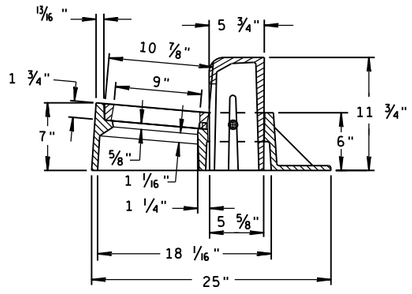


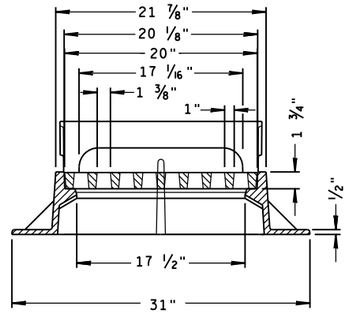


SPECIAL GRATE FOR TYPE "A" COVER

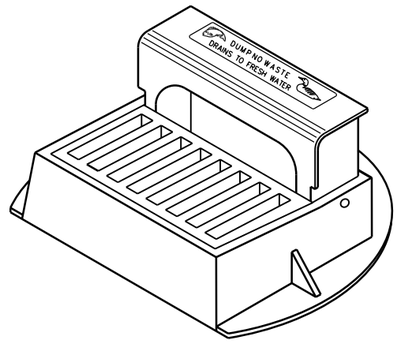
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"

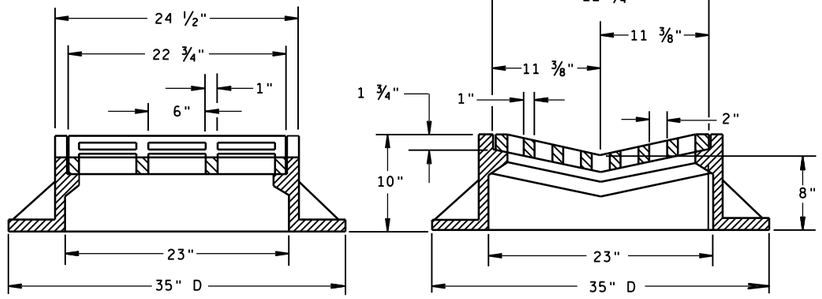


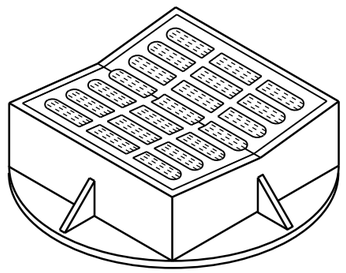
INLET COVERS TYPE A, H, A-S, H-S & Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

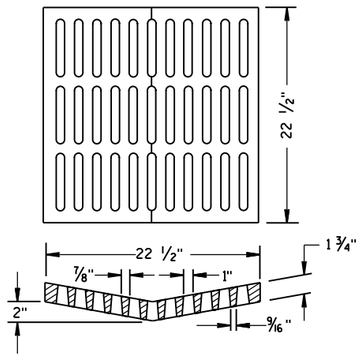
APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

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



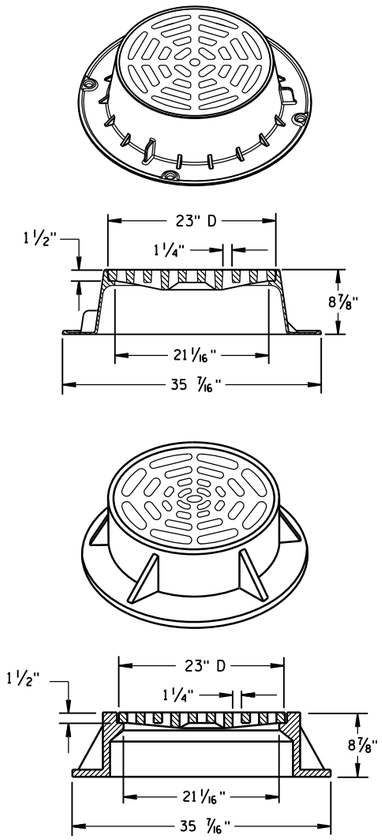


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

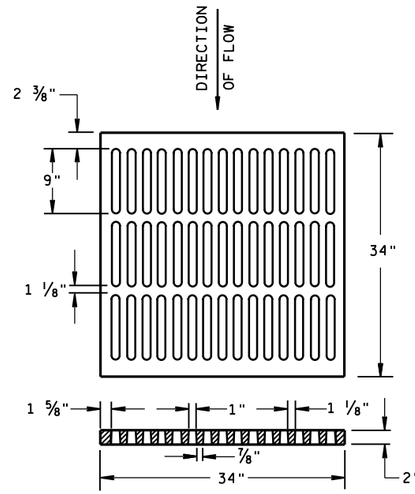
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

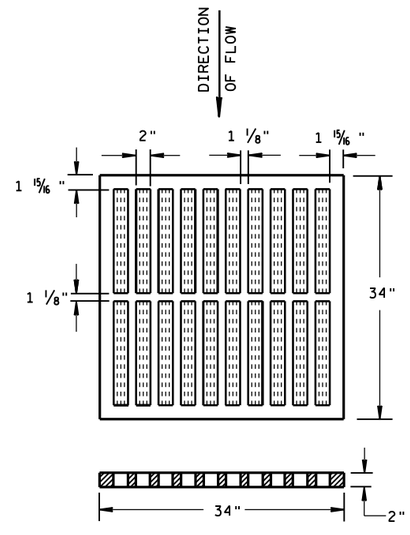
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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



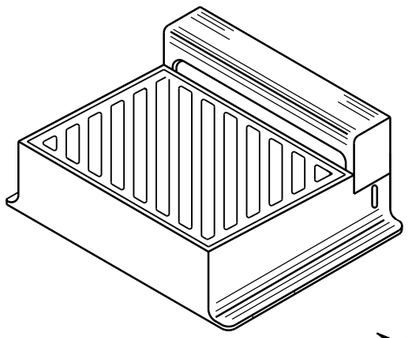
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

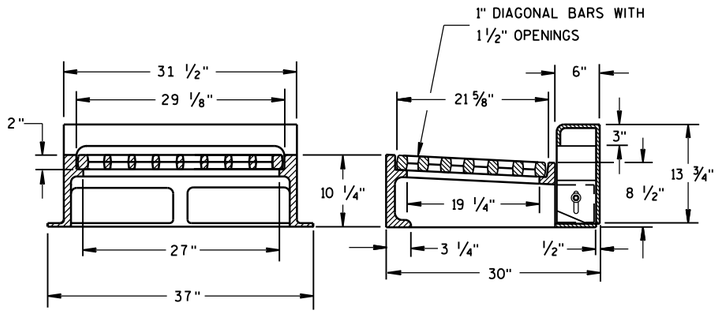


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

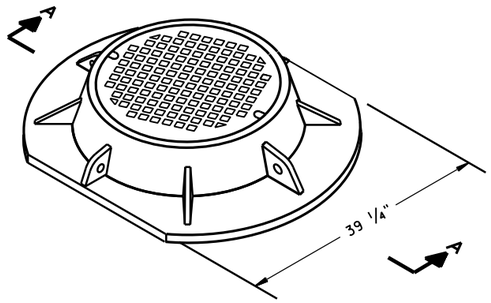
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

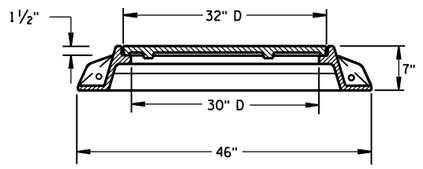
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

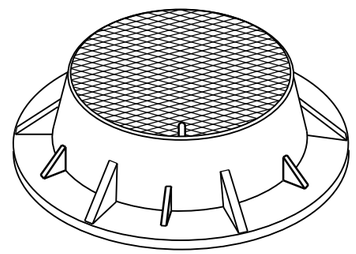
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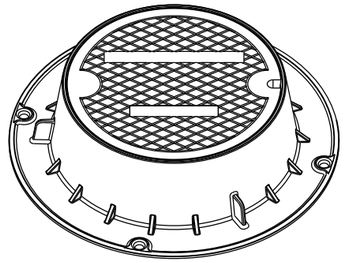
S.D.D. 8 A 5-19b

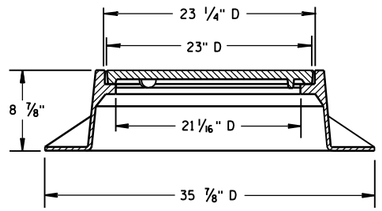


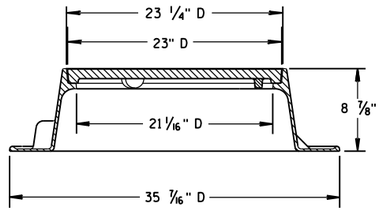


SECTION A-A
TYPE "K"









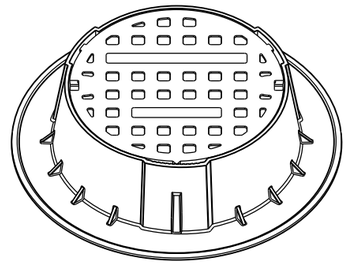
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

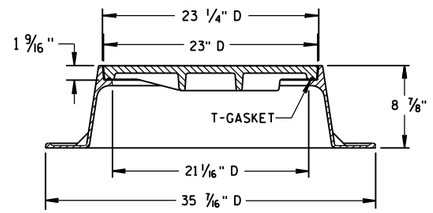
GENERAL NOTES

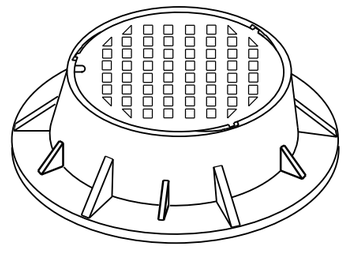
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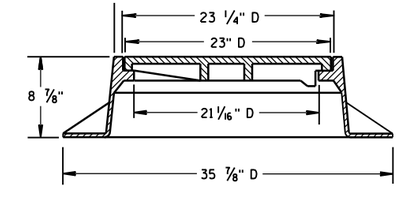
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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

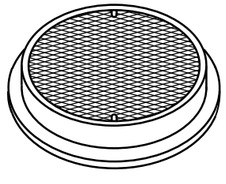


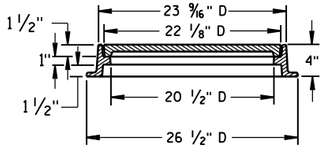




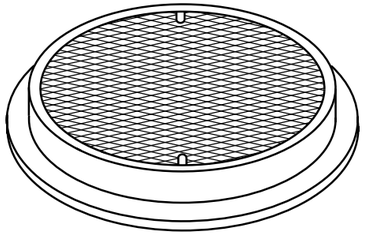


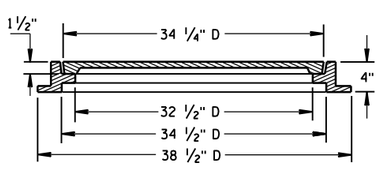
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



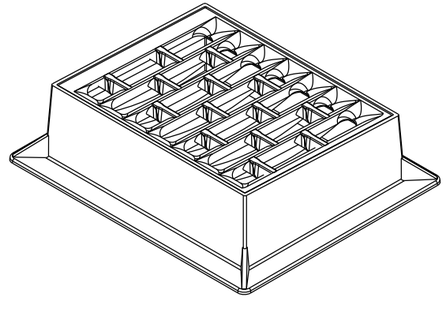


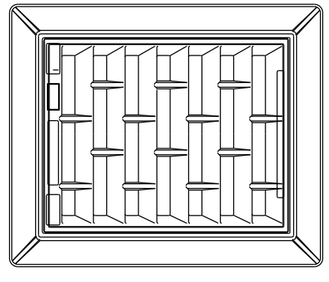
TYPE "L"

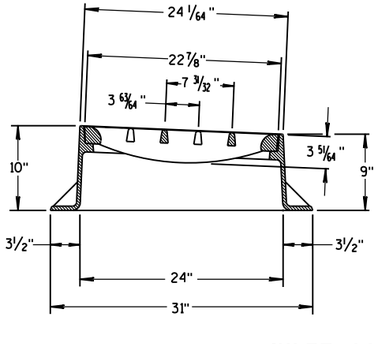


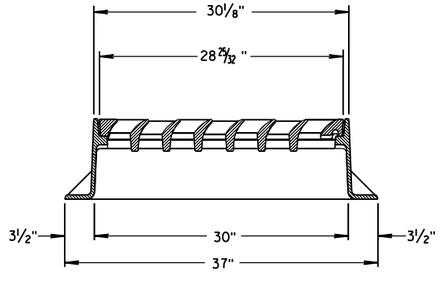


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

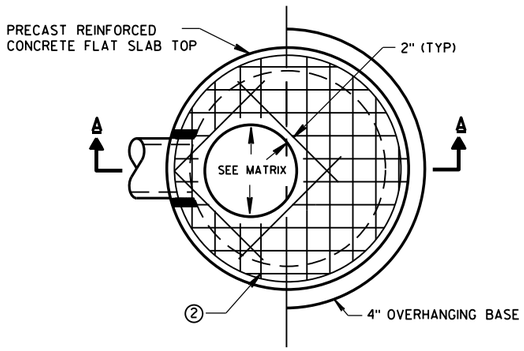
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

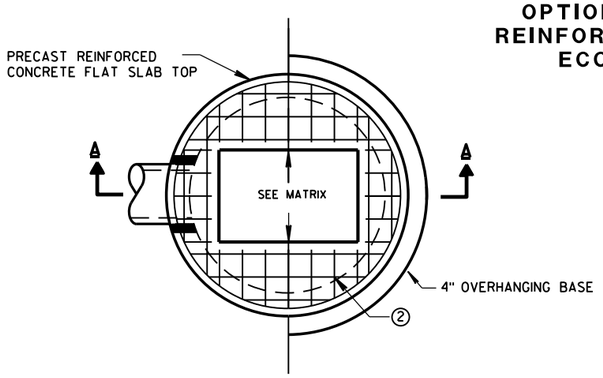
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

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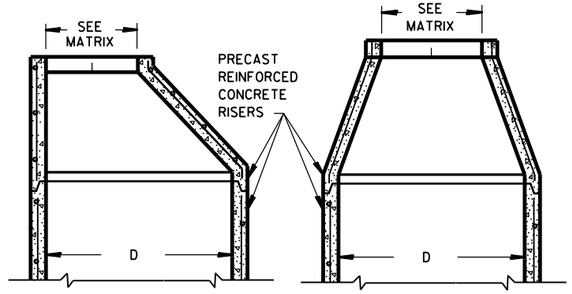
S.D.D. 8 A 5-19d



PLAN VIEW CIRCULAR OPENING

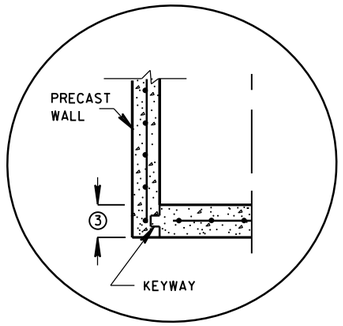


PLAN VIEW RECTANGULAR OPENING

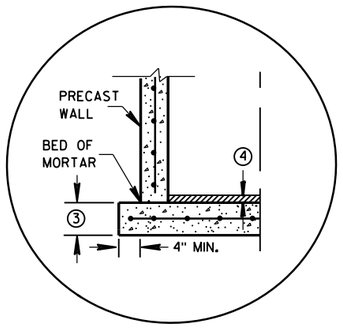


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

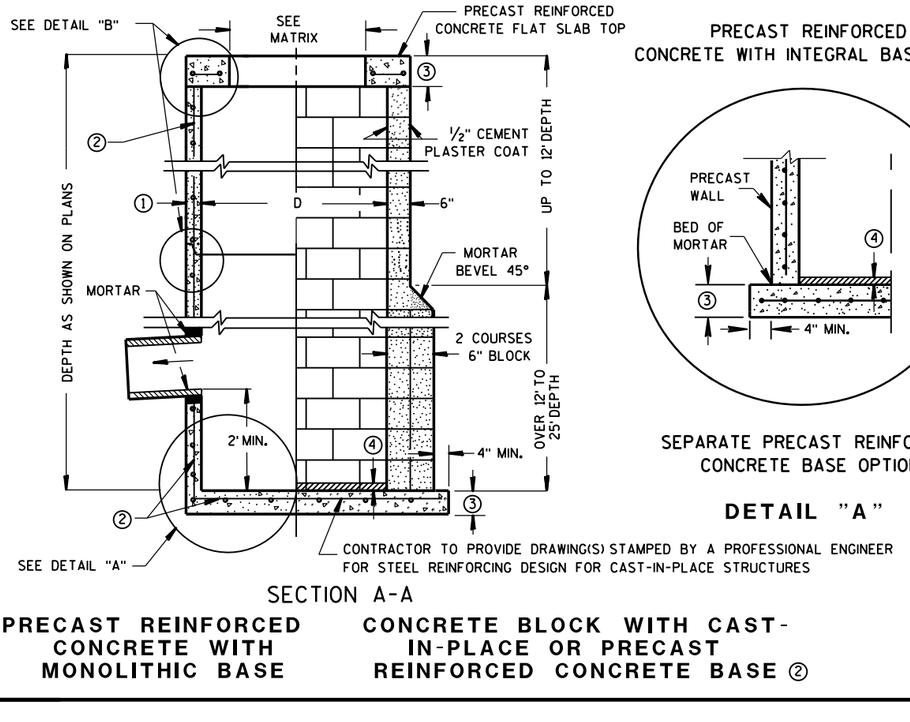


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

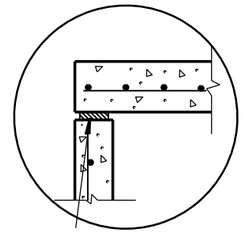


CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES

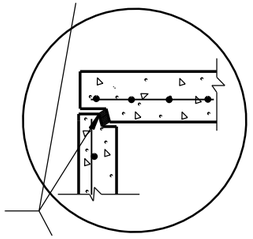
SECTION A-A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

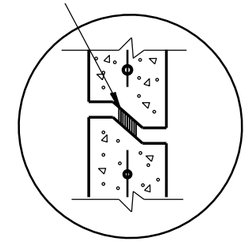


TOP WITH PLAIN END JOINT



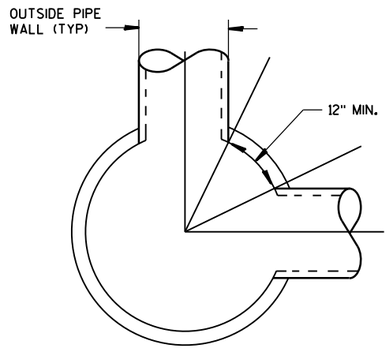
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



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 CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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

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

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

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

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

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

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2 INCH AND MEET THE REQUIREMENTS OF ASTM A615.

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

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

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

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

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

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

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

② FOR PRECAST CATCH BASINS 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".

④ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

PIPE MATRIX

CATCH BASIN 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	30

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

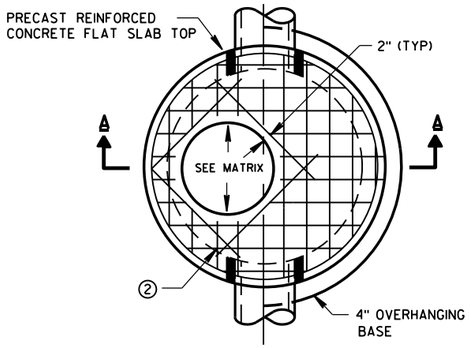
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

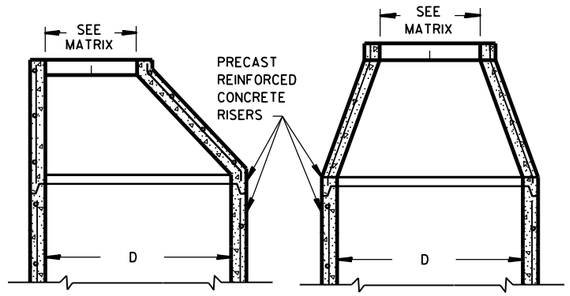
CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

S.D.D. 8 A 8-1

S.D.D. 8 A 8-1

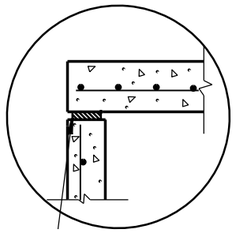


PLAN VIEW CIRCULAR OPENING

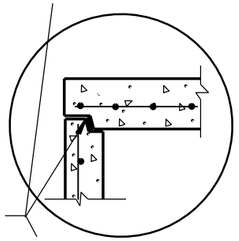


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

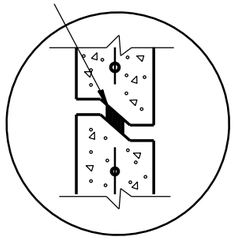


TOP WITH PLAIN END JOINT



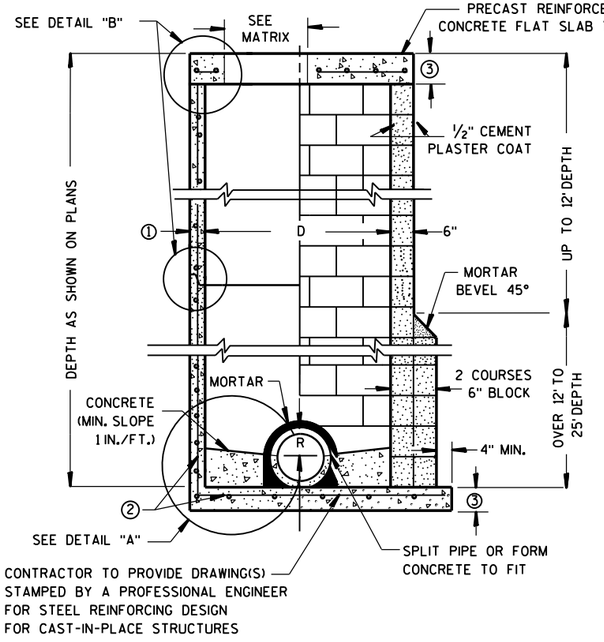
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



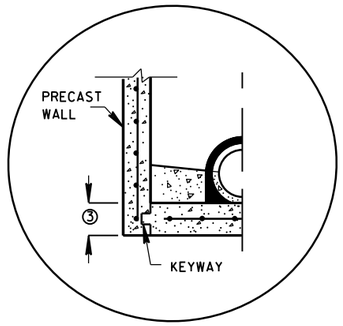
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

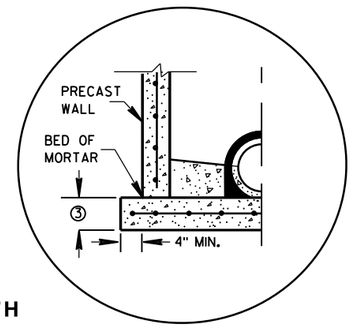


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

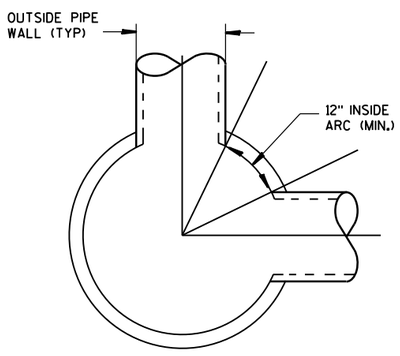


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



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 GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

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

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

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

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

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

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

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

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

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

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

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

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

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

MANHOLE COVER OPENING MATRIX

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

PIPE MATRIX

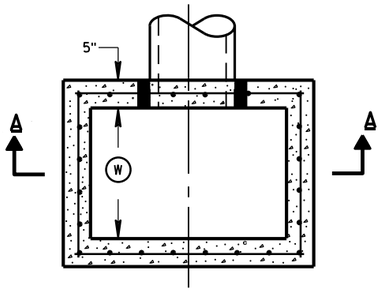
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

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

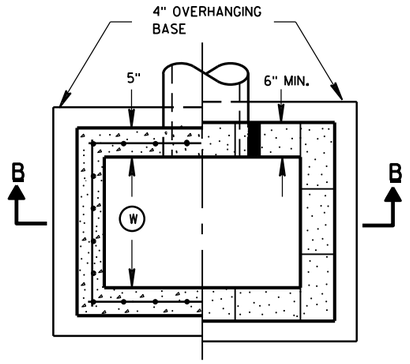
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

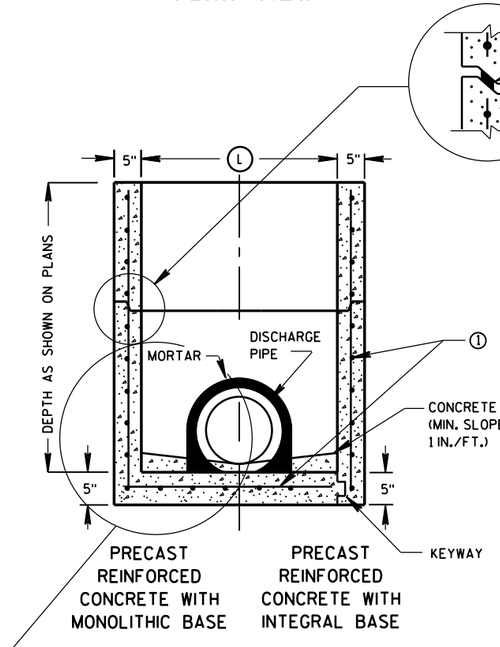
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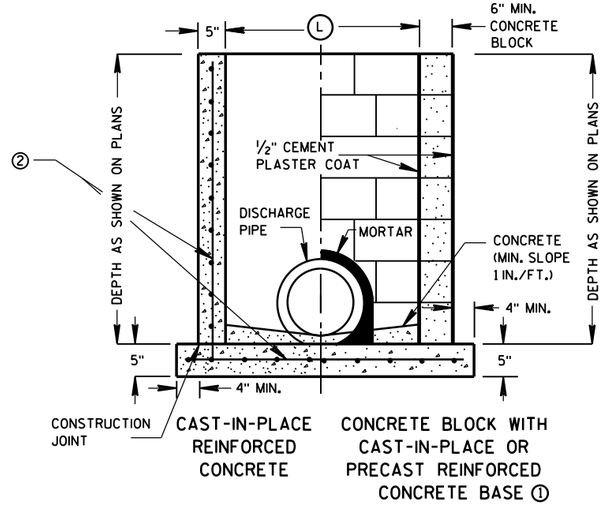
PLAN VIEW



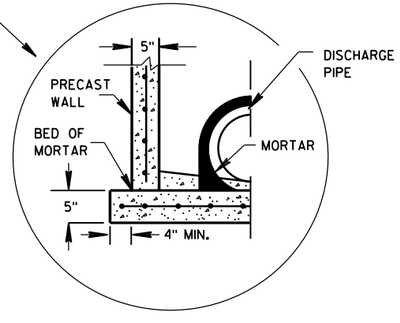
PLAN VIEW



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.

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

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

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

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

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR 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.

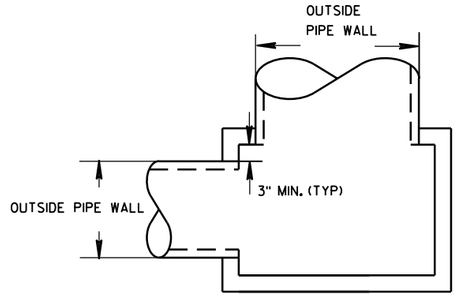
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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"

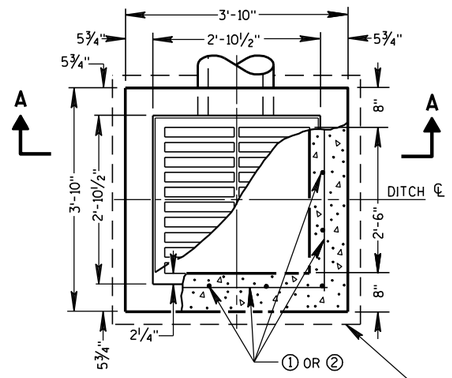
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

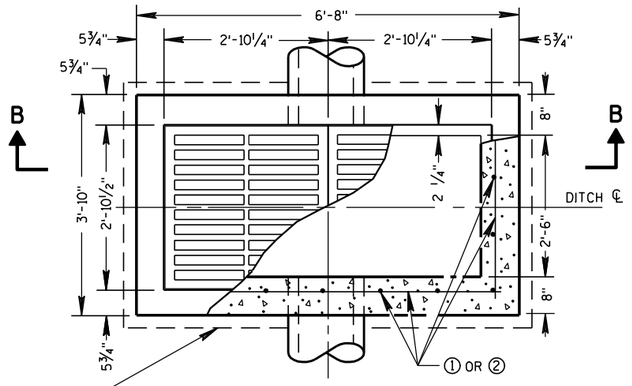
APPROVED
6/5/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DE ENGINEER
FHWA

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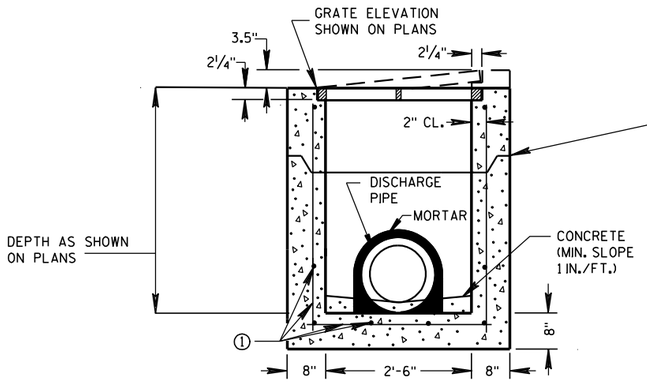


PLAN VIEW

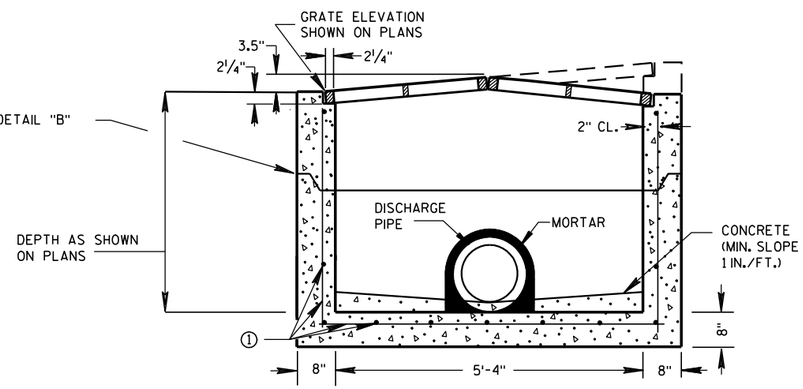


PLAN VIEW

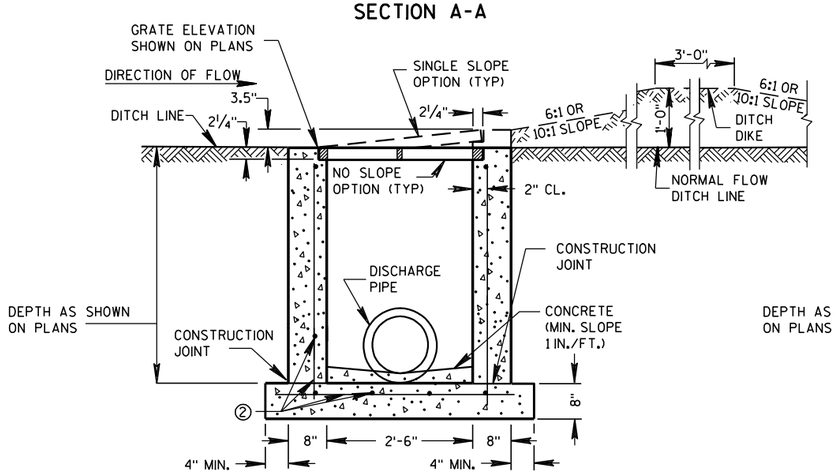
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



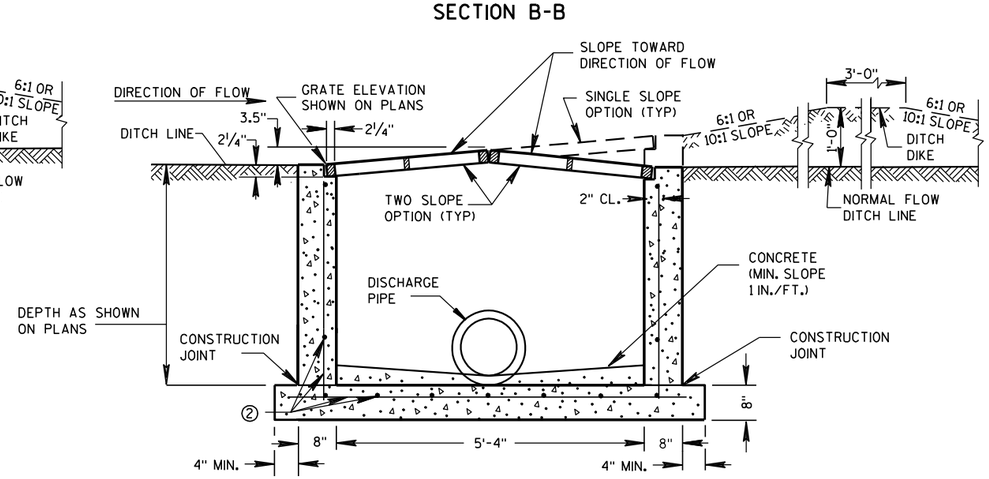
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

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

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

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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.

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

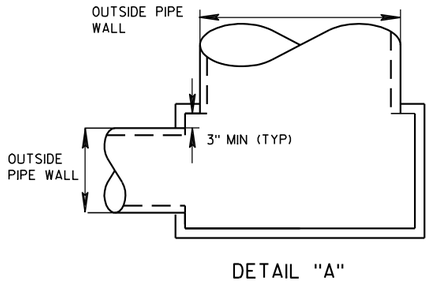
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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

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

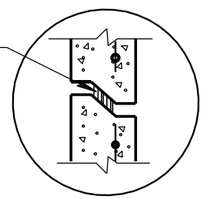
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

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DEPARTMENT OF TRANSPORTATION

APPROVED

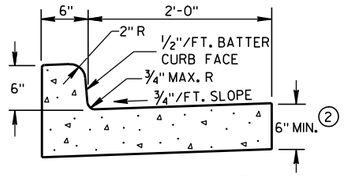
6/5/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

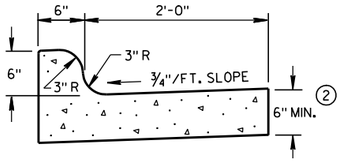
FHWA

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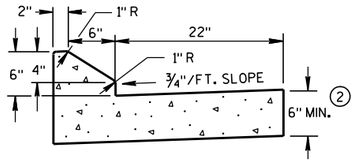
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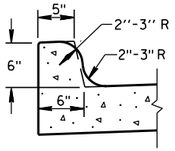
TYPES A & D (1)



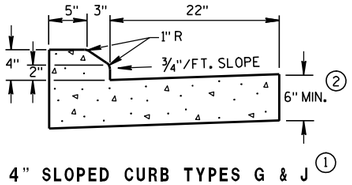
TYPES K & L (1)



6" SLOPED CURB TYPES G & J (1)

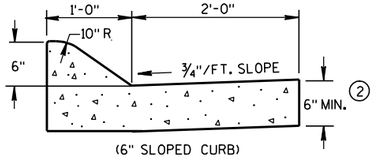


OPTIONAL CURB SHAPE FOR TYPES K & L (1)

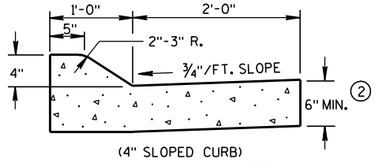


4" SLOPED CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

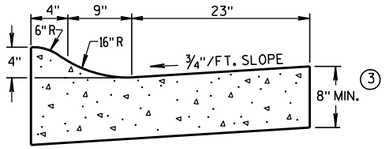


(6" SLOPED CURB)



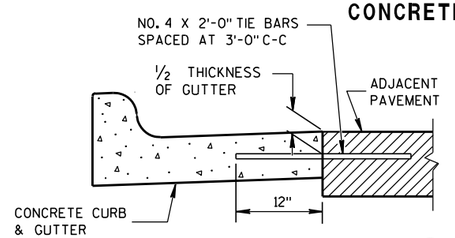
(4" SLOPED CURB)

TYPES A & D (1)

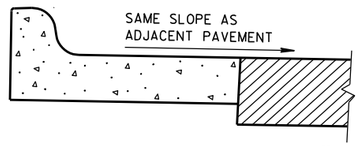


4" SLOPED CURB TYPES R & T (1) (4)

CONCRETE CURB & GUTTER 36"



TYPICAL TIE BAR LOCATION (1)



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

GENERAL NOTES

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

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

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

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

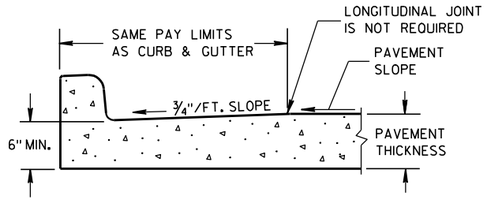
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

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

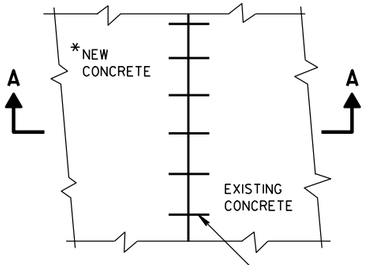
(3) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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

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

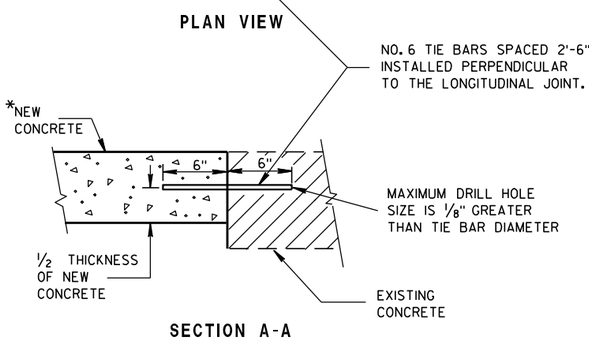


PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



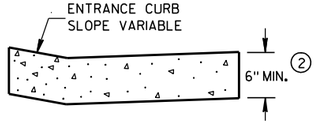
PLAN VIEW

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

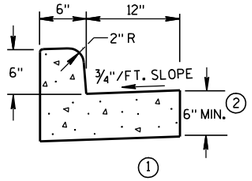


SECTION A-A

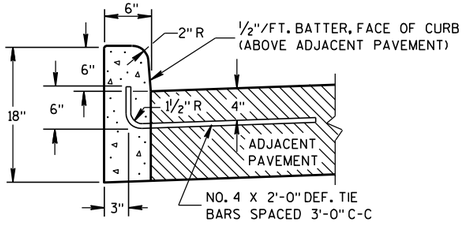
TIE BARS DRILLED INTO EXISTING PAVEMENT



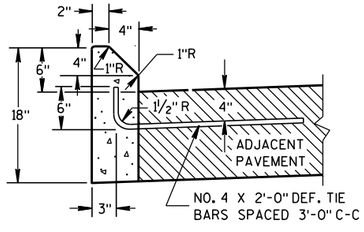
DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)



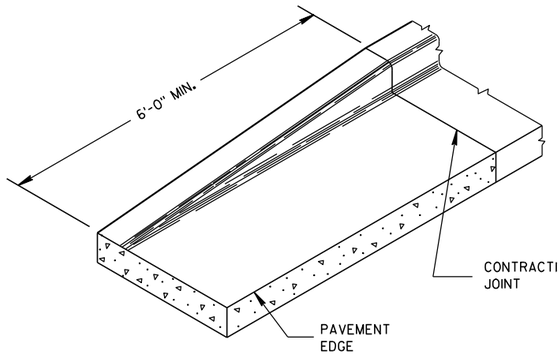
(1)
TYPES A & D
CONCRETE CURB & GUTTER 18"



(1)
TYPES A & D



(1)
TYPES G & J



END SECTION CURB & GUTTER

CONCRETE CURB

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

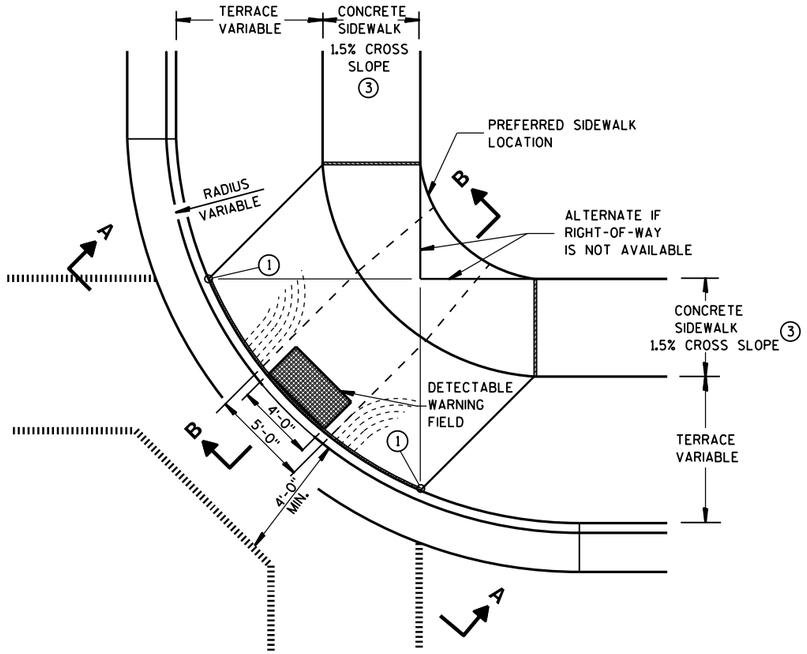
ENT

6

S.D.D. 8 D 1-17

6

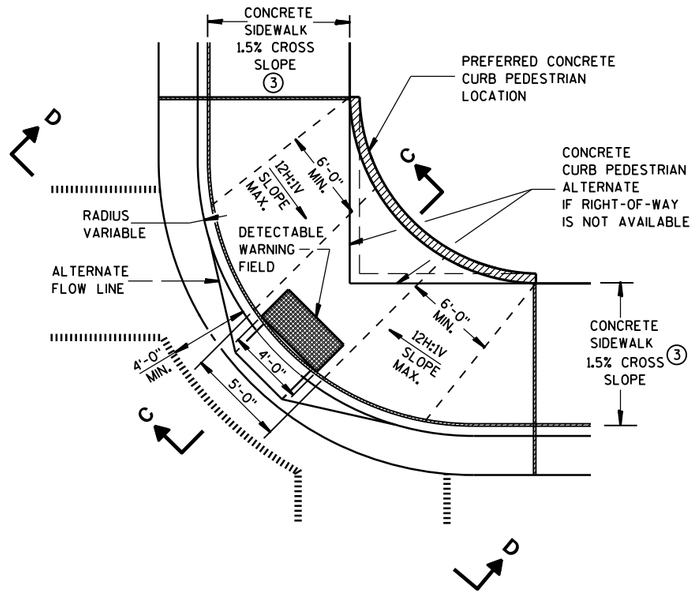
S.D.D. 8 D 1-17



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

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.

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

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

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

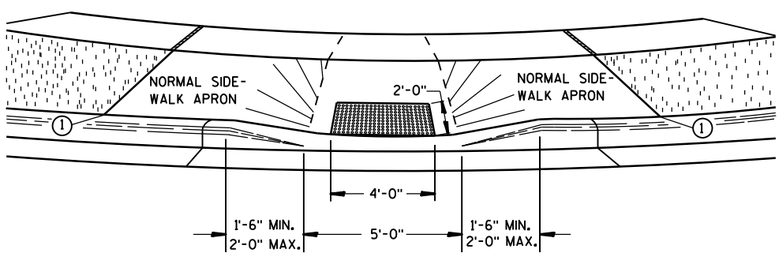
① THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.

② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

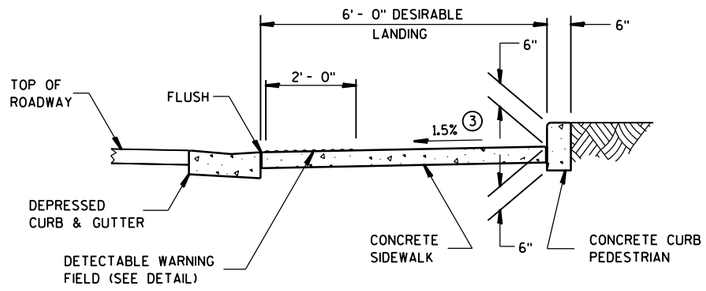
③ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

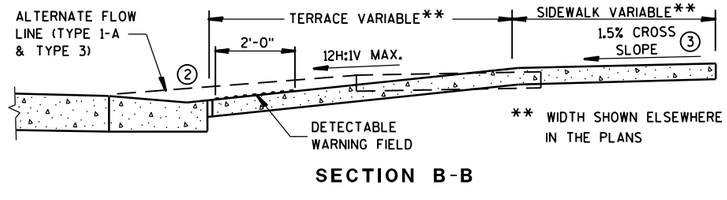
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



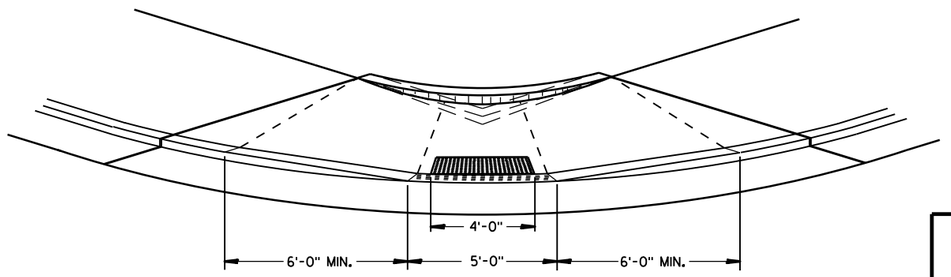
VIEW A-A



SECTION C-C



SECTION B-B



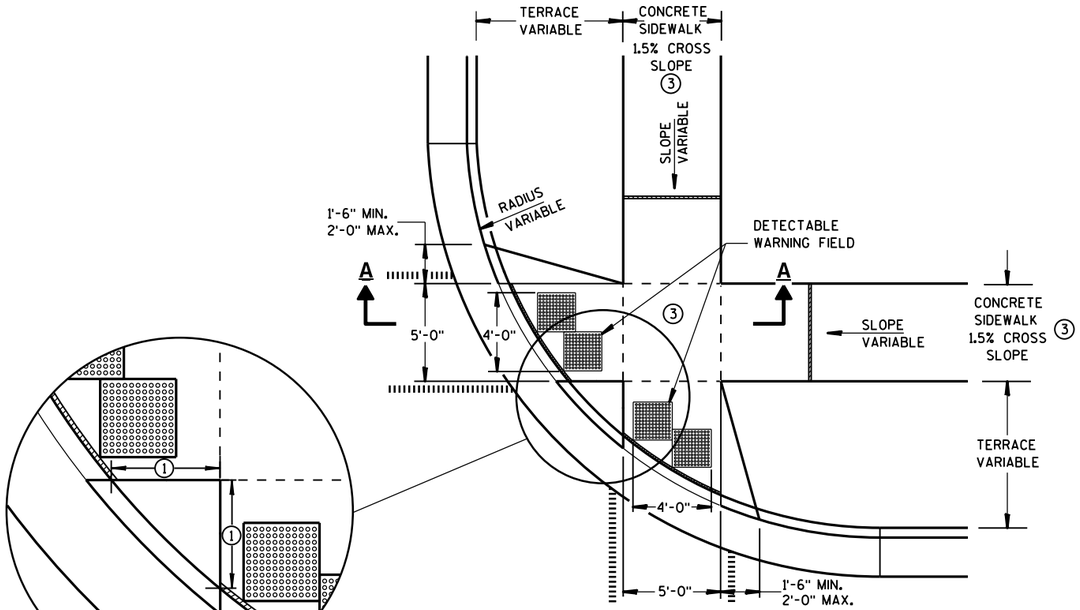
VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

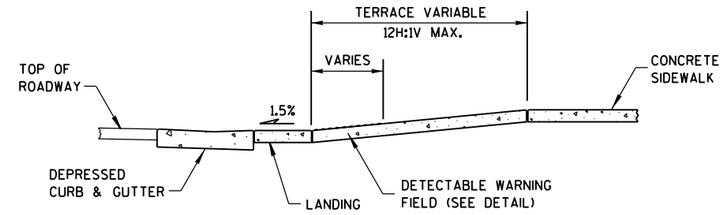
S.D.D. 8 D 5-15a



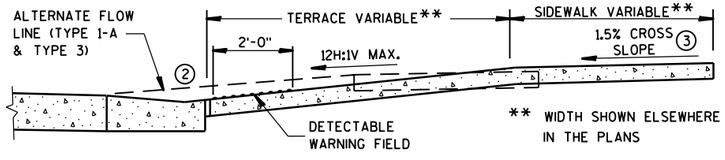
PLAN VIEW

TYPE 2 RAMP

(ON LINE WITH SIDEWALK)



SECTION A-A



SECTION B-B

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

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

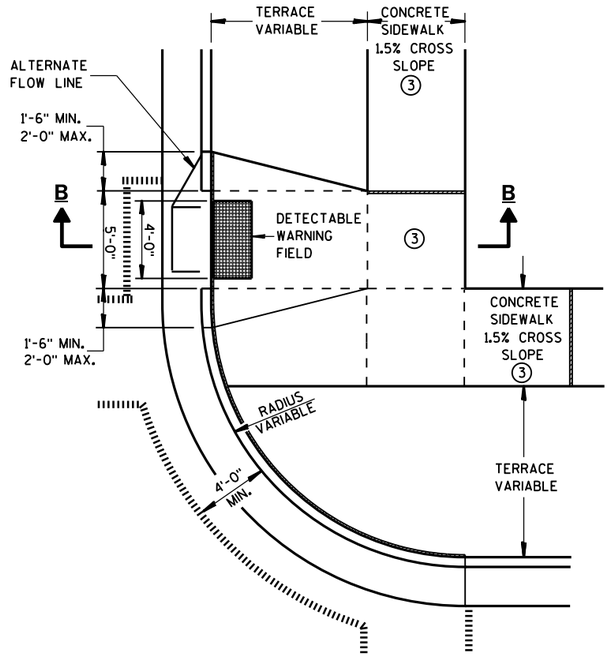
① WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.

② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

③ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

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



PLAN VIEW

TYPE 3 RAMP

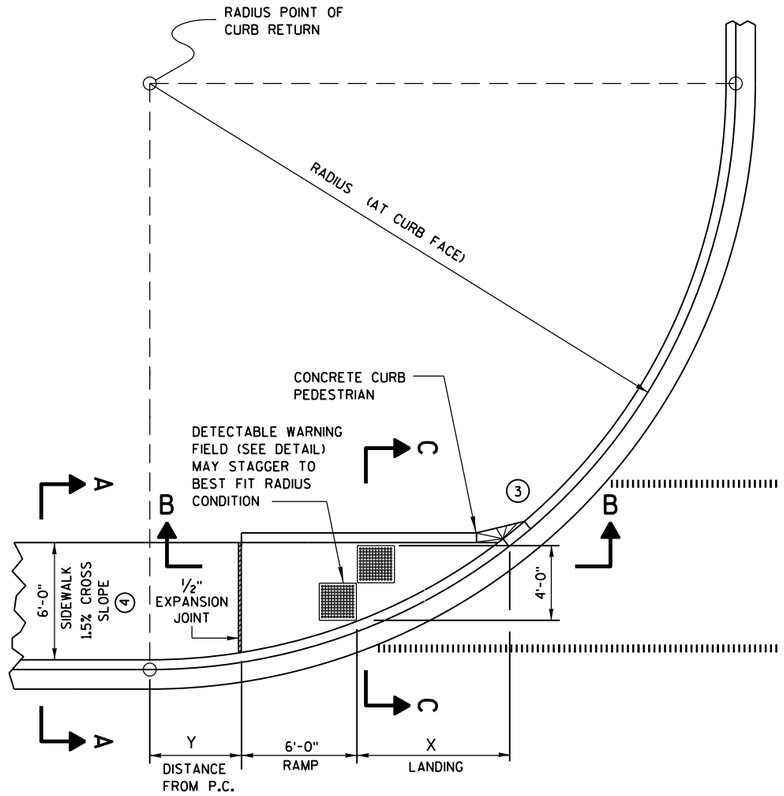
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS
TYPES 2 AND 3

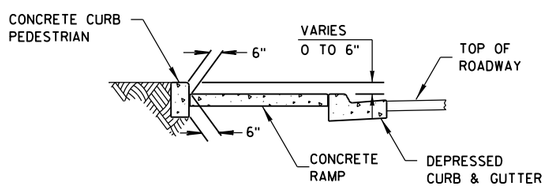
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

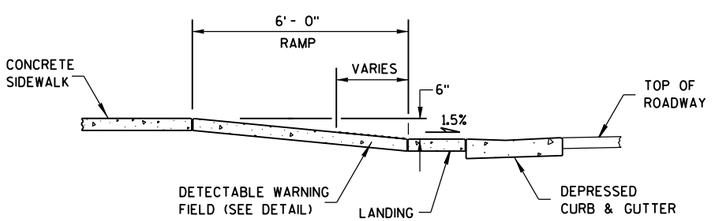
S.D.D. 8 D 5-15b



CURB RAMP TYPE 4A
PLAN VIEW



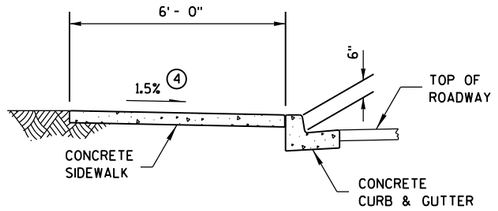
SECTION C-C FOR TYPE 4A



SECTION B-B FOR TYPE 4A

RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

GENERAL NOTES

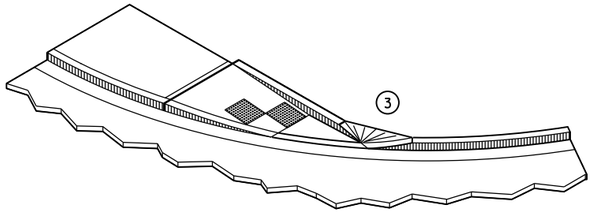
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

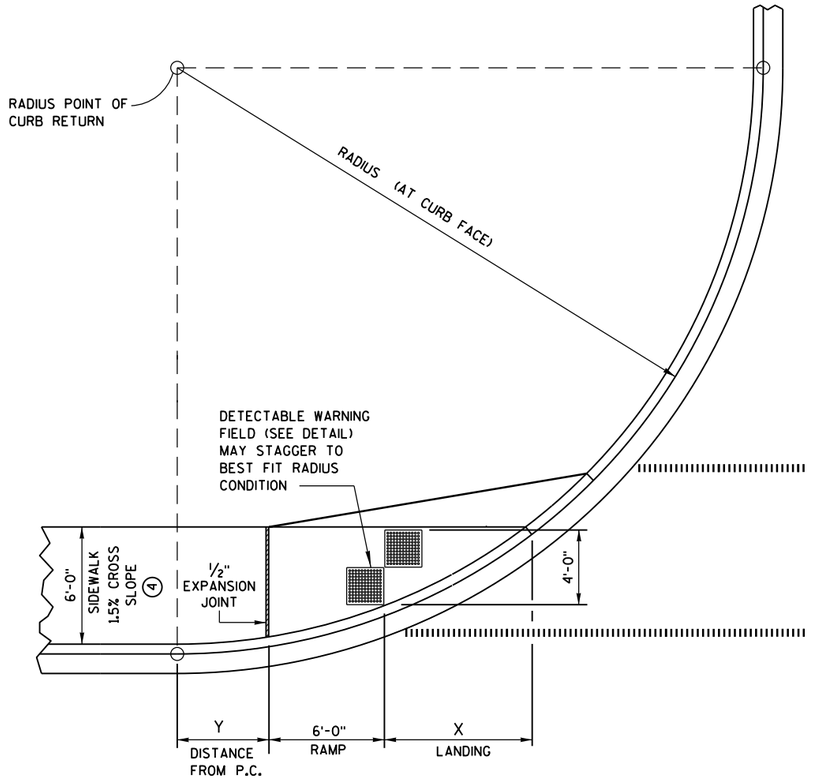
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

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

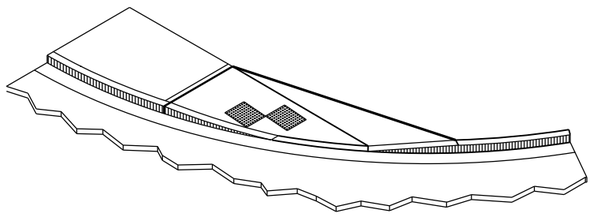
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



ISOMETRIC VIEW FOR TYPE 4A



CURB RAMP TYPE 4A1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

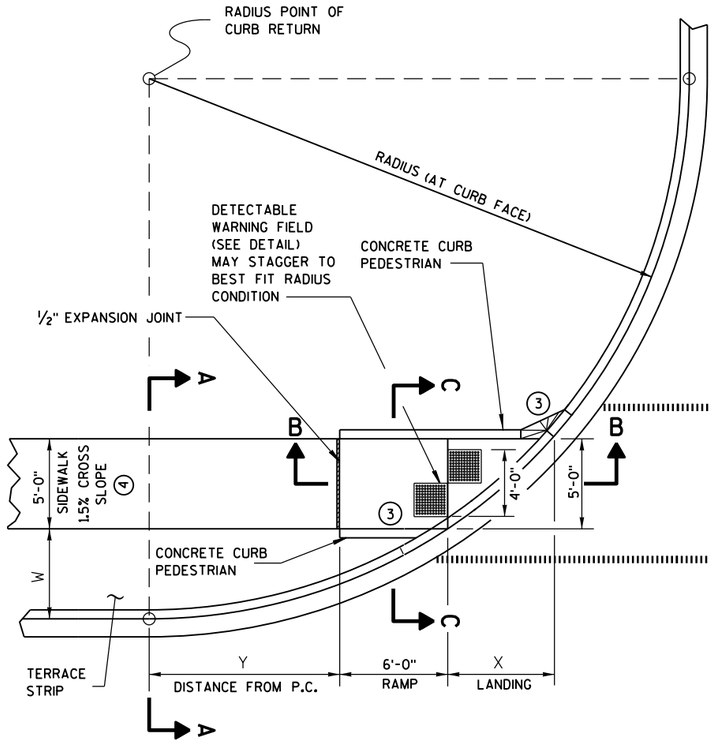
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

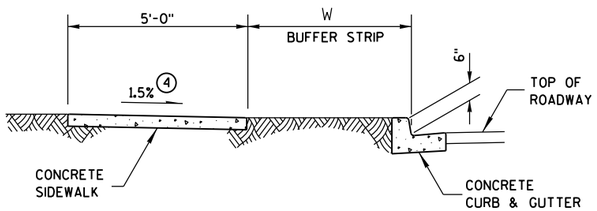
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

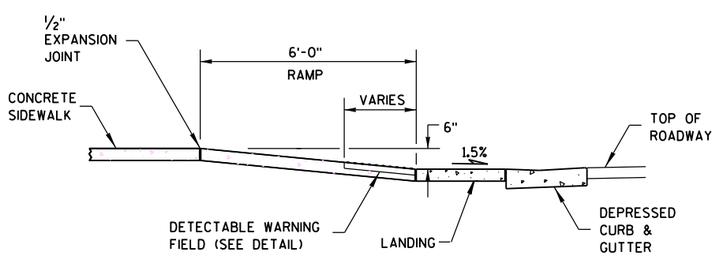
S.D.D. 8 D 5-15c



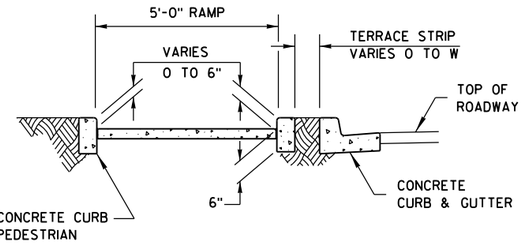
CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



SECTION B-B FOR TYPE 4B



SECTION C-C FOR TYPE 4B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-5½"	4'-6½"	4'-8½"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-3½"	3'-1½"	9'-2½"
30 FEET	7'-3¾"	7'-1"	6'-5½"	8'-11½"	5'-9¼"	10'-7"	5'-2½"	12'-0"	4'-8¾"	13'-3¼"
40 FEET	8'-9½"	9'-2½"	7'-10"	11'-5¼"	7'-1"	13'-4½"	6'-5¾"	15'-¾"	5'-11½"	16'-7¼"
50 FEET	10'-¾"	11'-¾"	9'-¼"	13'-7¼"	8'-2½"	15'-9½"	7'-6½"	17'-9"	6'-11¾"	19'-6¼"
60 FEET	11'-2½"	12'-8¾"	10'-¾"	15'-6½"	9'-2¼"	17'-11¾"	8'-5¾"	20'-1¾"	7'-10½"	22'-1½"

INTERMEDIATE RADII CAN BE INTERPOLATED

GENERAL NOTES

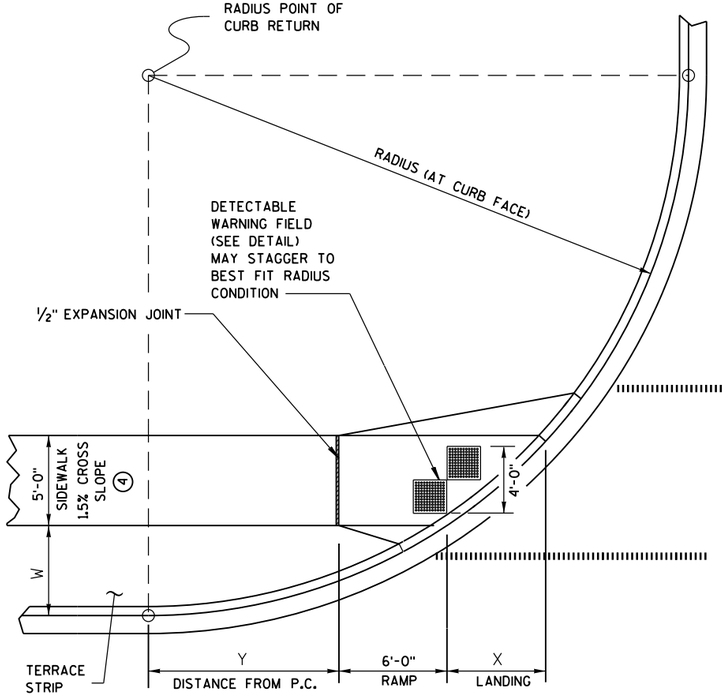
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

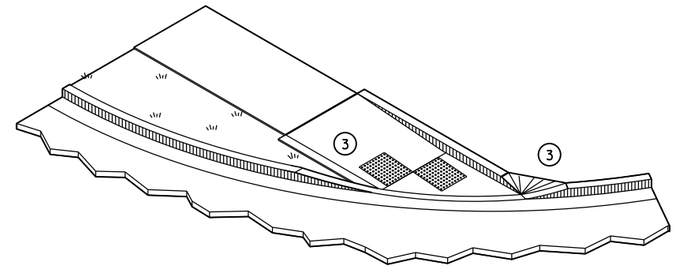
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

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

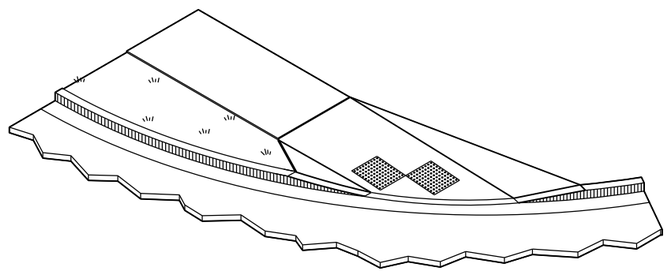
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



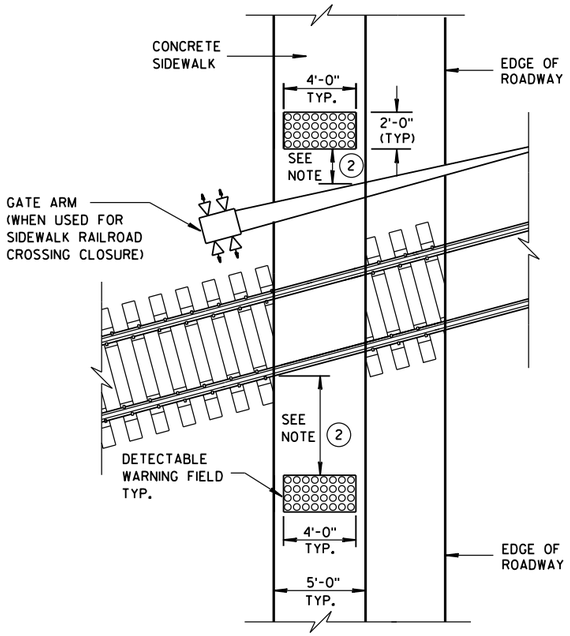
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

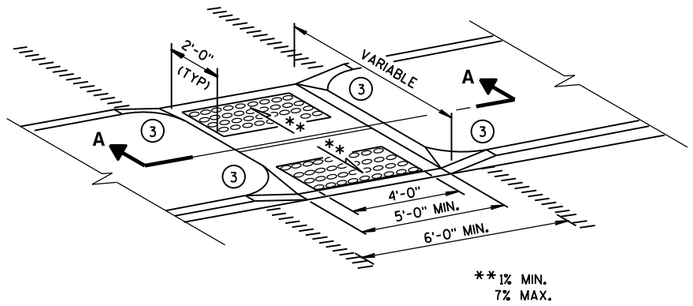
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-15d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

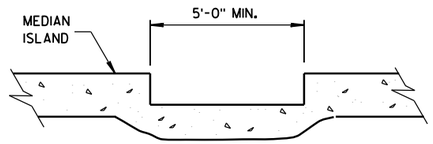
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

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

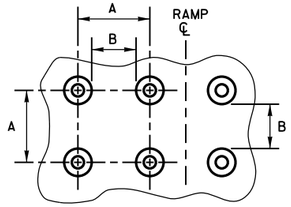
(2) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET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

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

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



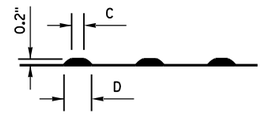
SECTION A-A



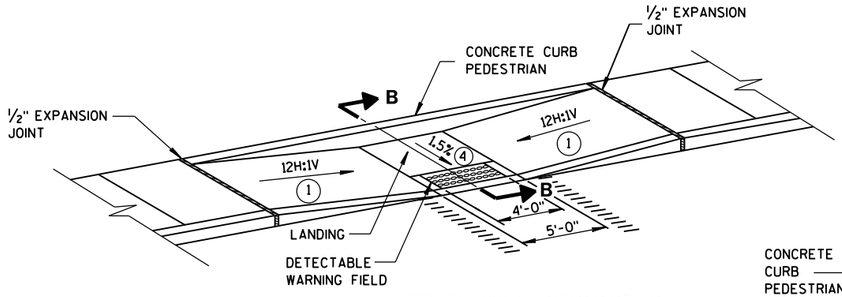
PLAN VIEW

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

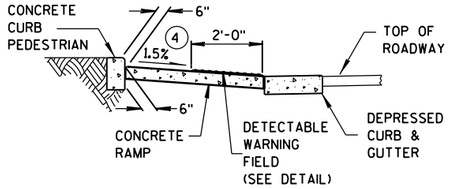
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



ELEVATION VIEW

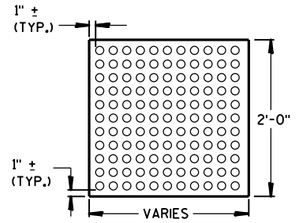


MID-BLOCK CROSSING
TYPE 7A



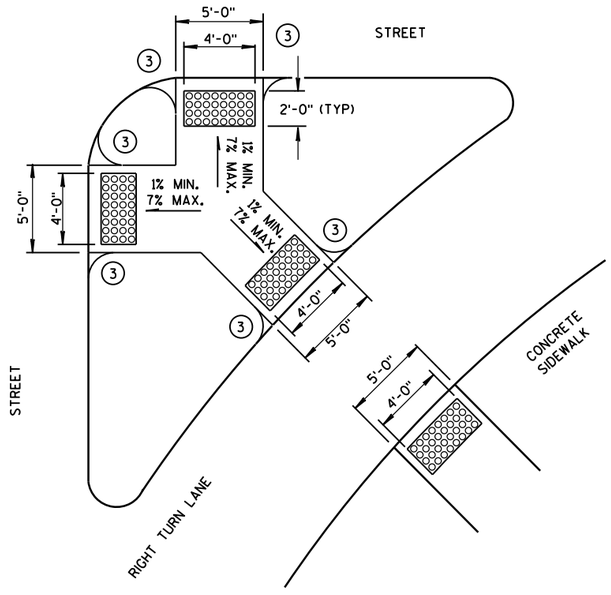
SECTION B-B

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

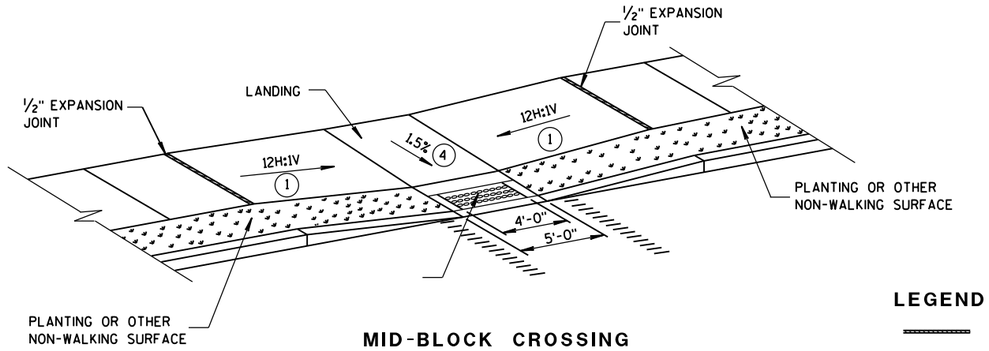


PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

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

LEGEND

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

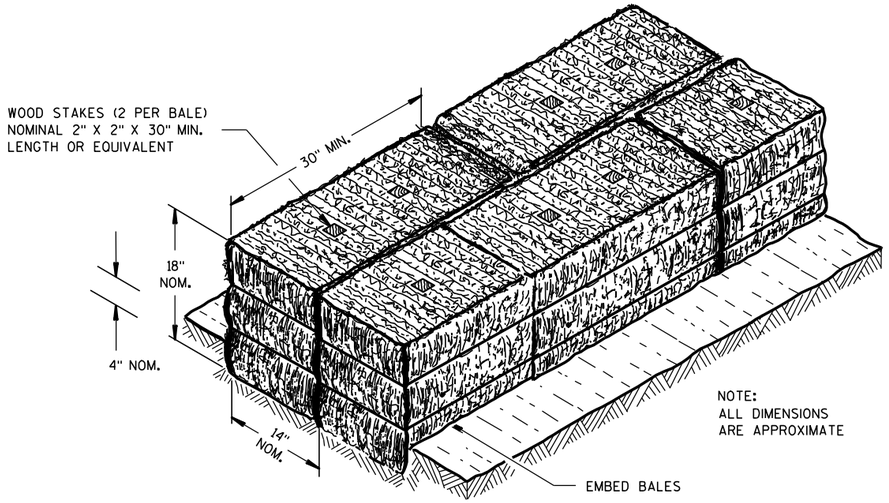
CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

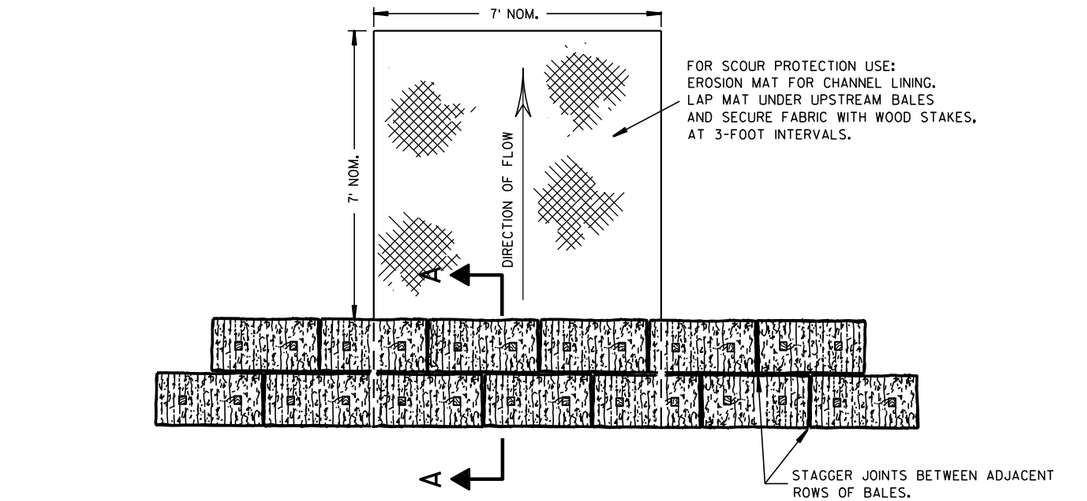
APPROVED
2-6-2013 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

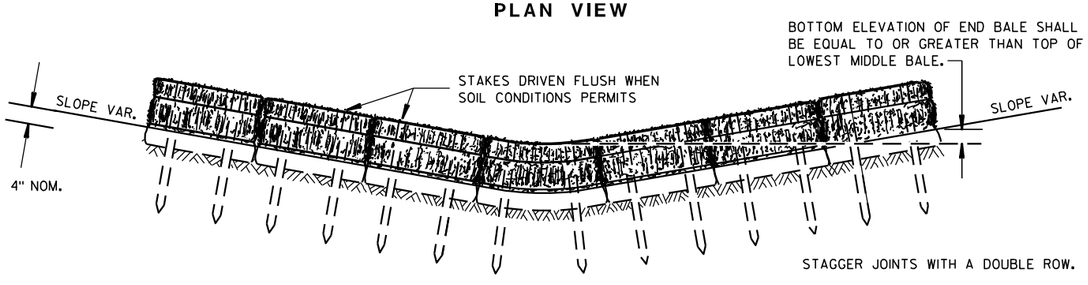
S.D.D. 8 D 5-15e



SECTION A-A



PLAN VIEW



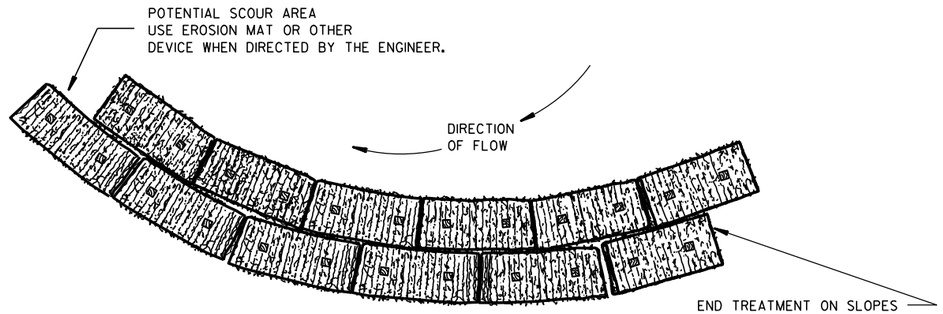
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

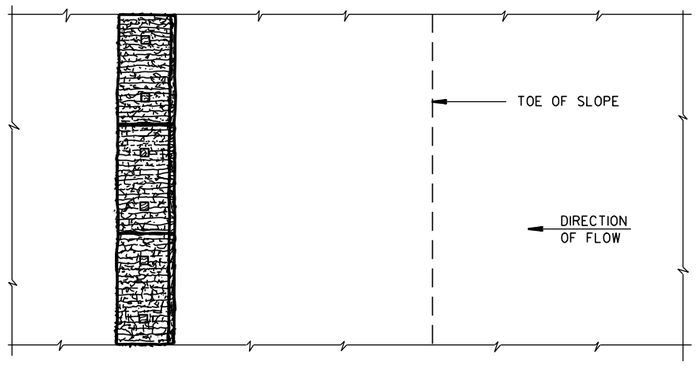
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

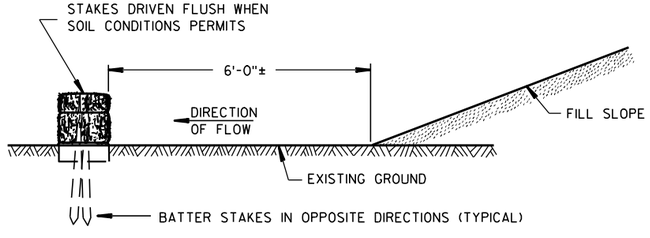


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

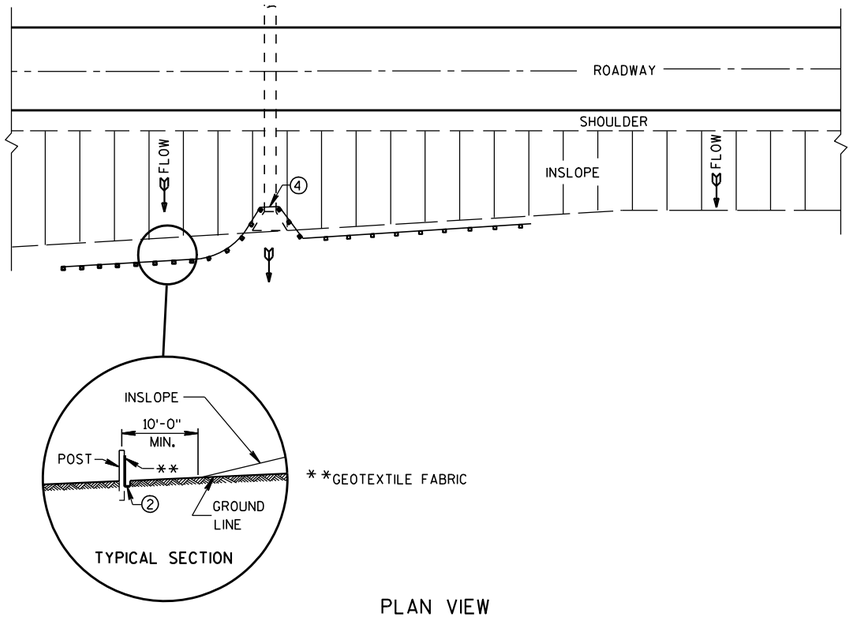
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

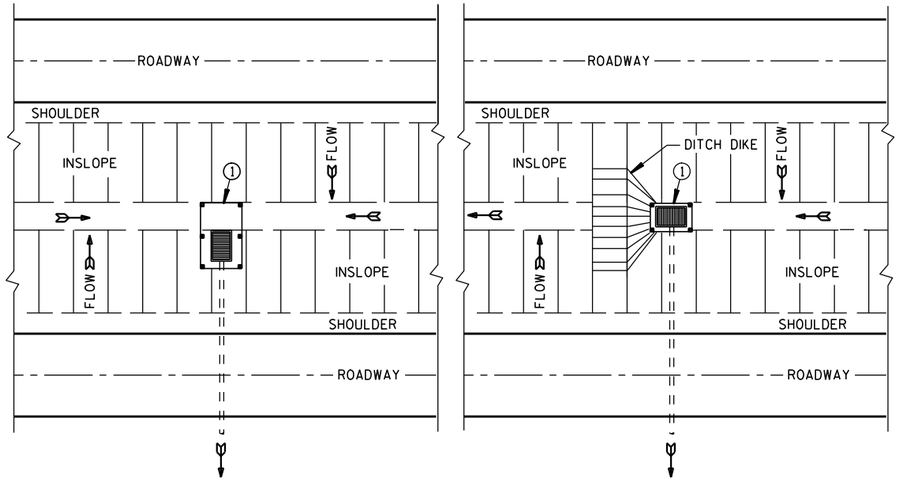
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



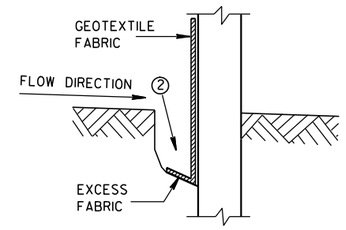
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

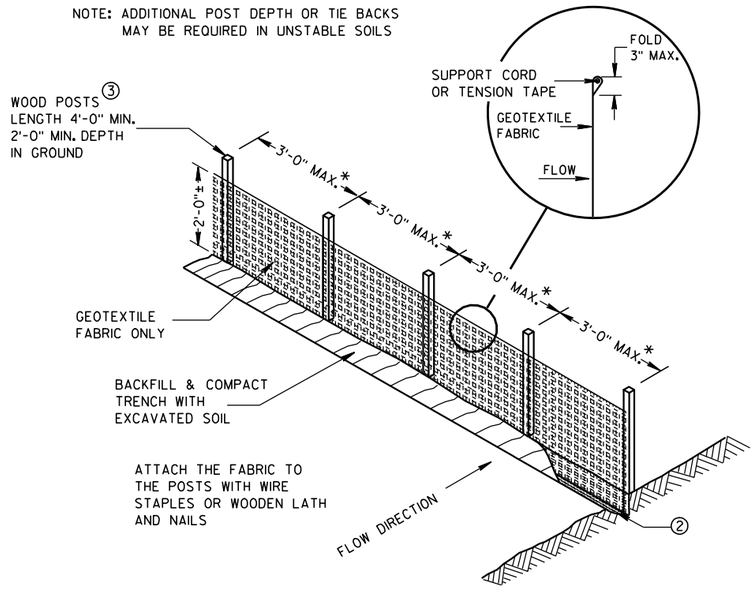
GENERAL NOTES

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.

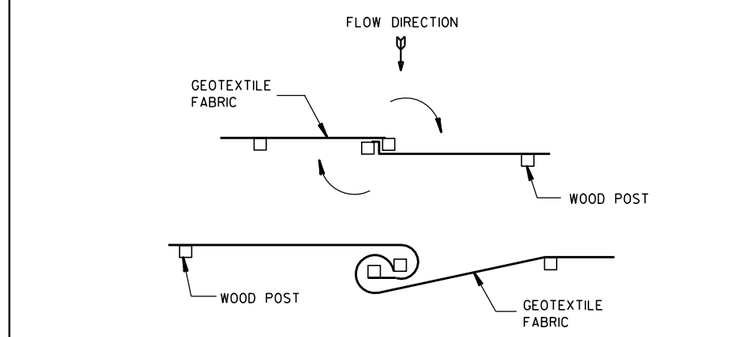


TRENCH DETAIL

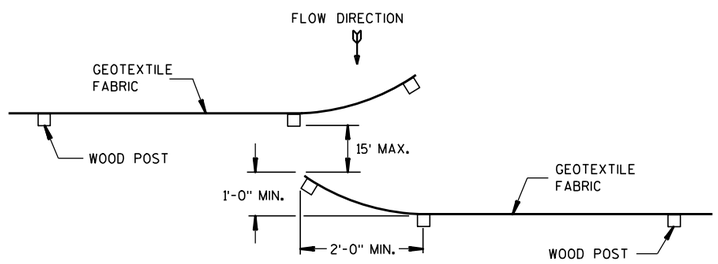


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

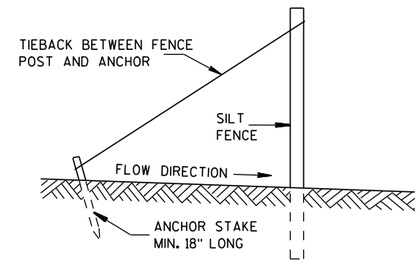


TWIST METHOD



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

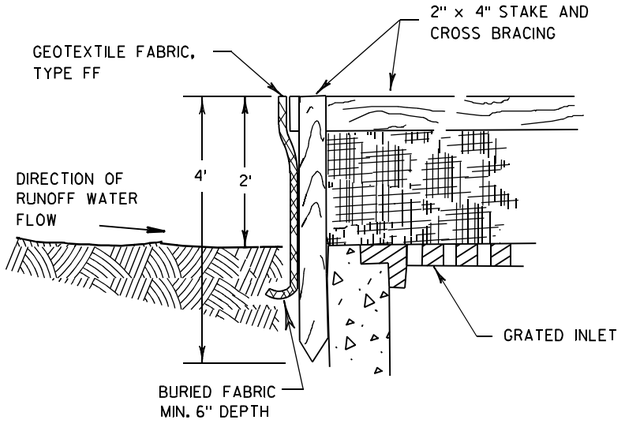
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

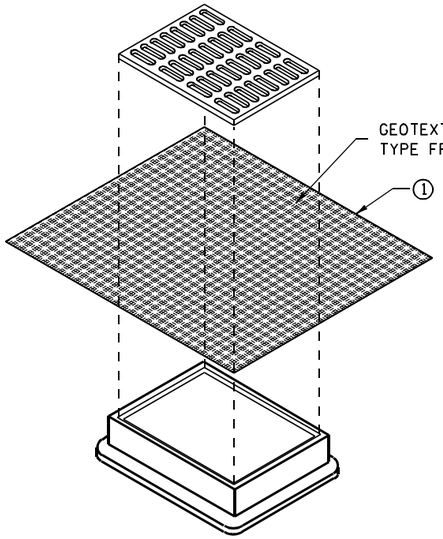
6

S.D.D. 8 E 9-6

6

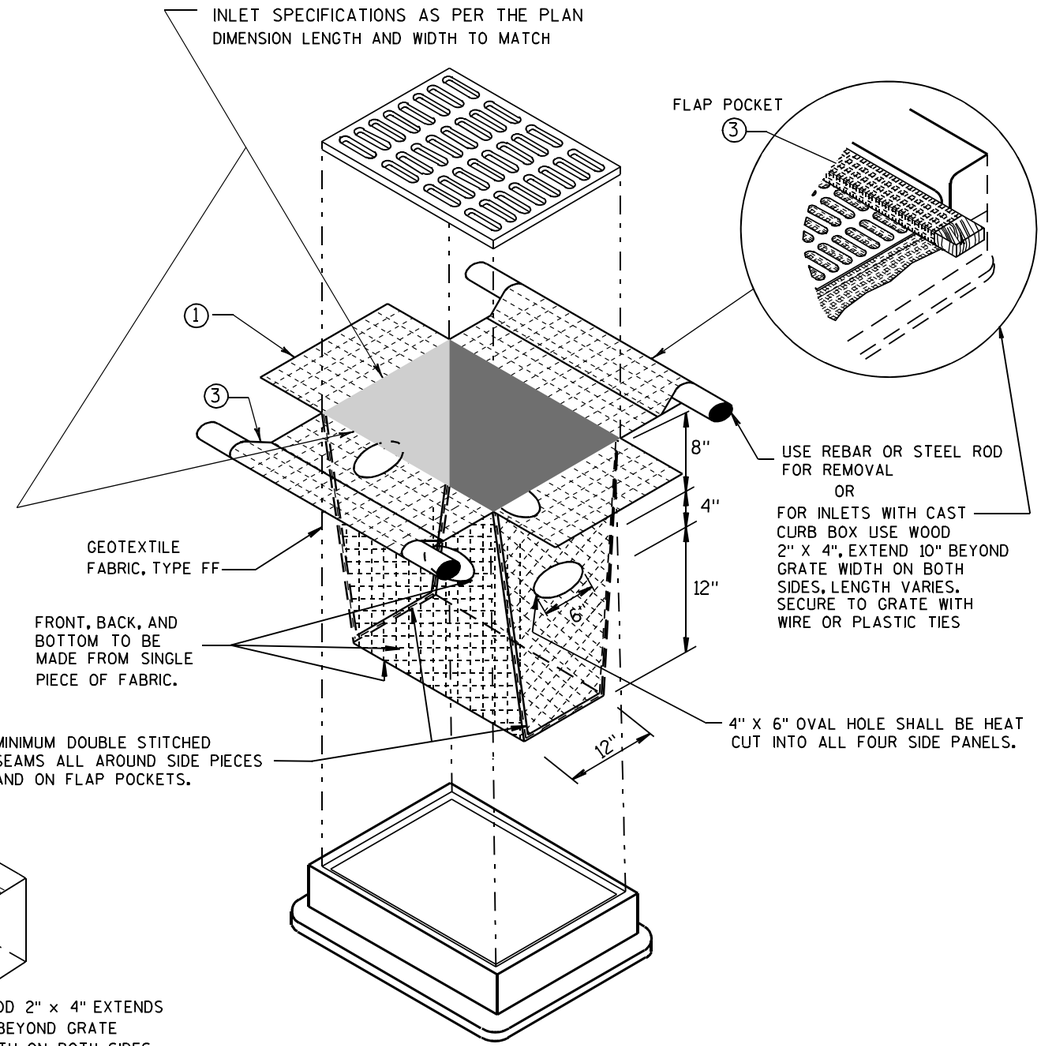
S.D.D. 8 E 9-6

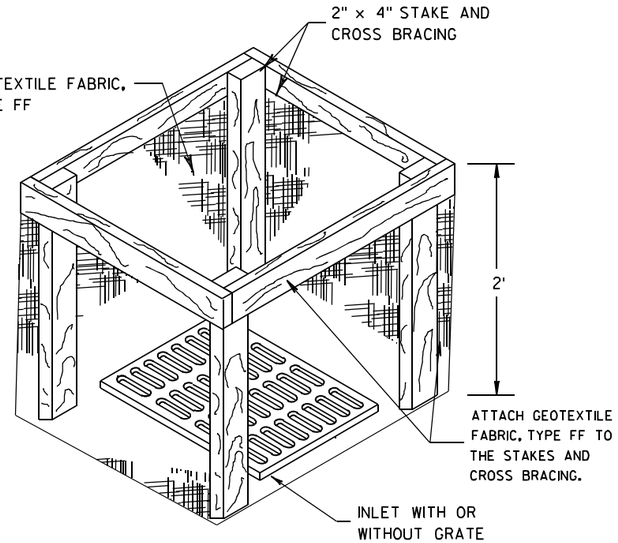




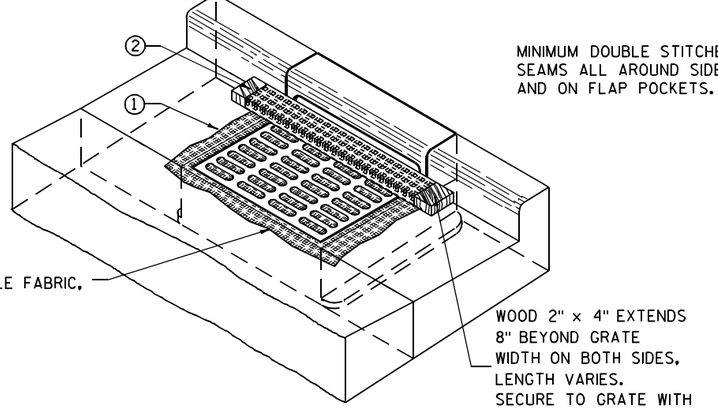
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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





INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE C (WITH CURB BOX)

INLET PROTECTION, TYPE D

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

GENERAL NOTES

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

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

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

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

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

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

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 8 E 10-2

METAL APRON ENDWALLS

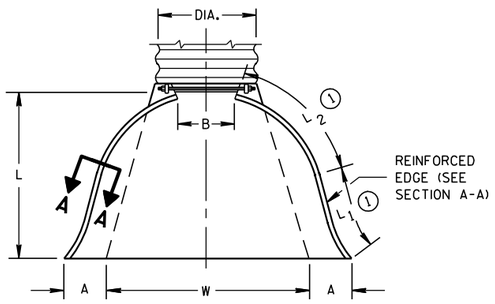
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

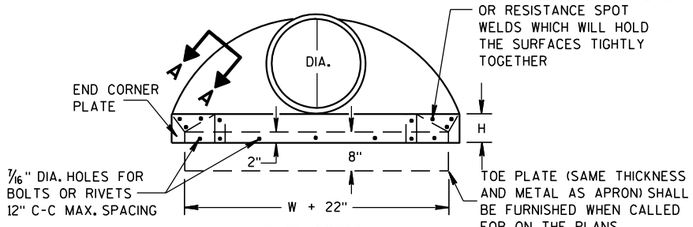
REINFORCED CONCRETE APRON ENDWALLS

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

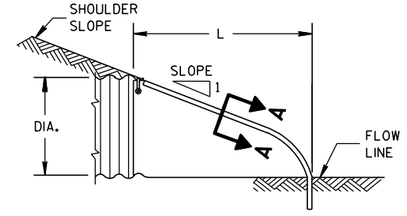
*MINIMUM
**MAXIMUM



PLAN VIEW

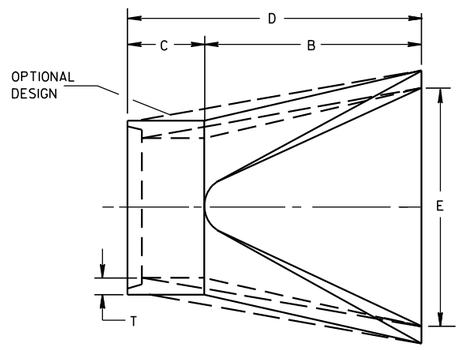


END VIEW

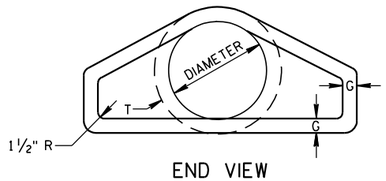


SIDE ELEVATION

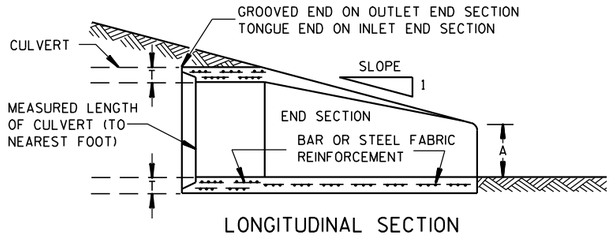
METAL ENDWALLS



PLAN

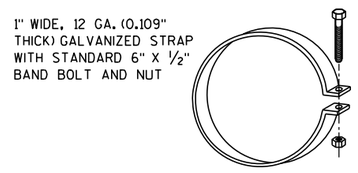


END VIEW



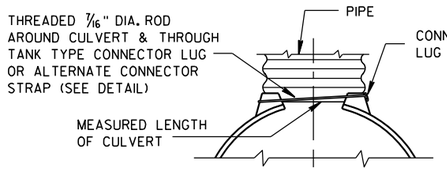
LONGITUDINAL SECTION

CONCRETE ENDWALLS

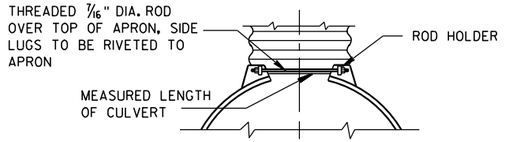


ALTERNATE FOR TYPE 1 CONNECTION

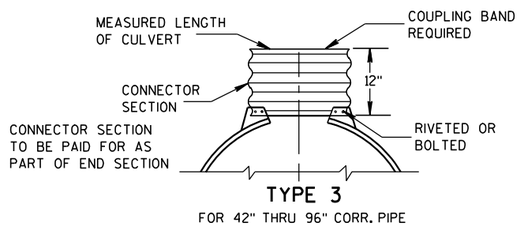
END SECTION CONNECTOR STRAP



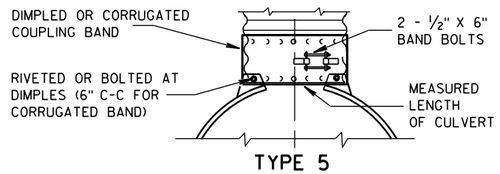
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

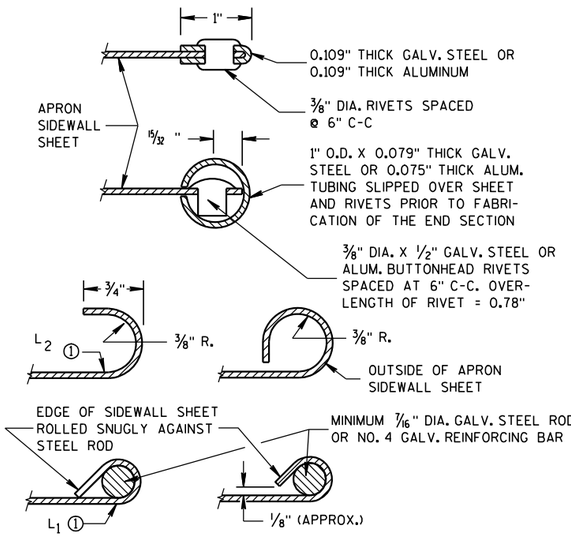
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

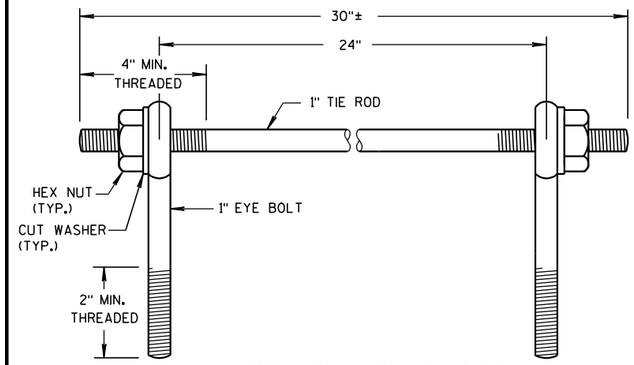
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

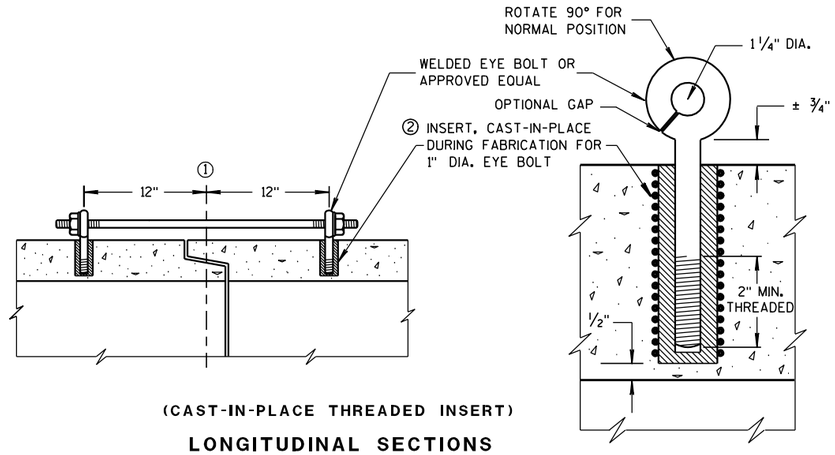
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

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

GENERAL NOTES

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

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

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

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

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

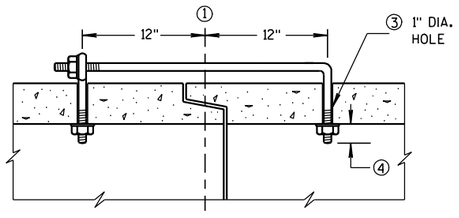
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

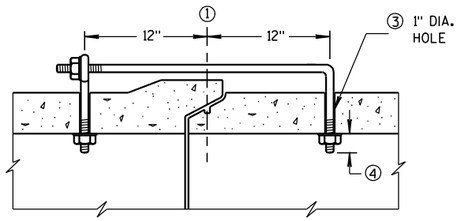
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

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



(TONGUE & GROOVE PIPE)

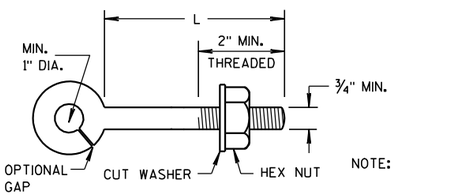


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

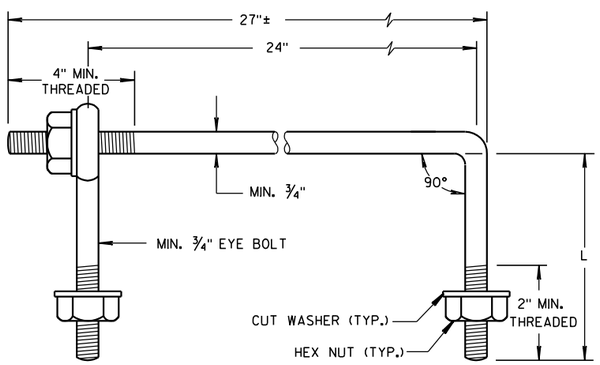
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

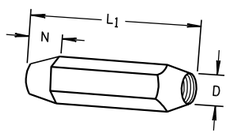
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

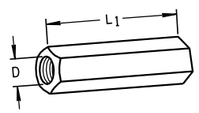
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



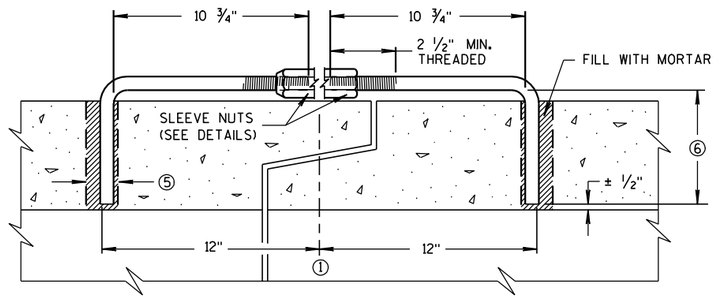
TAPERED



PLAIN

RIGHT AND LEFT THREADS

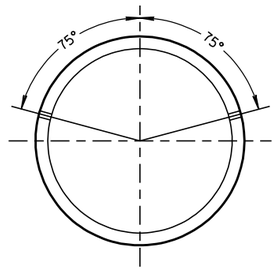
SLEEVE NUTS



LONGITUDINAL SECTION

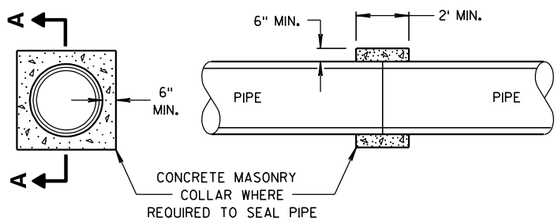
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

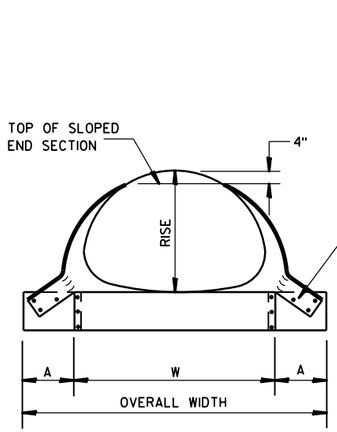
APPROVED
6/5/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6

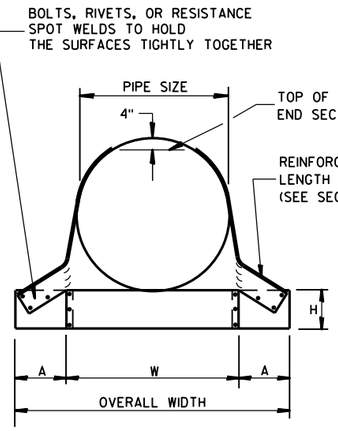
S.D.D. 8 F 4-7

6

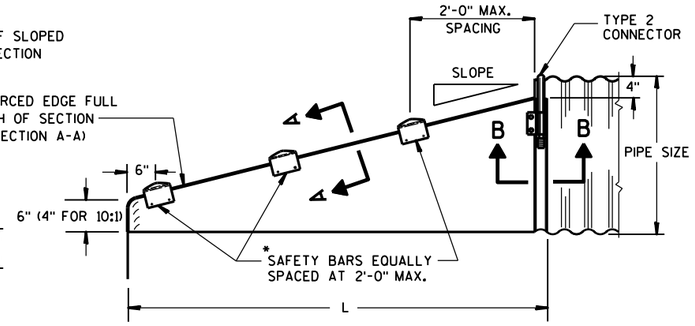
S.D.D. 8 F 4-7



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

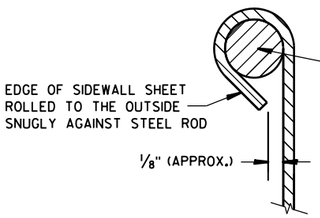
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

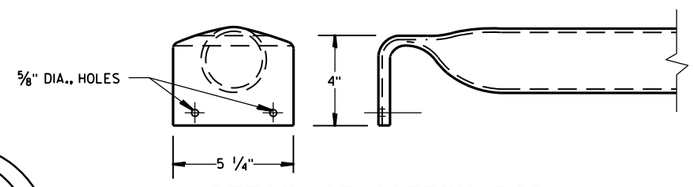
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

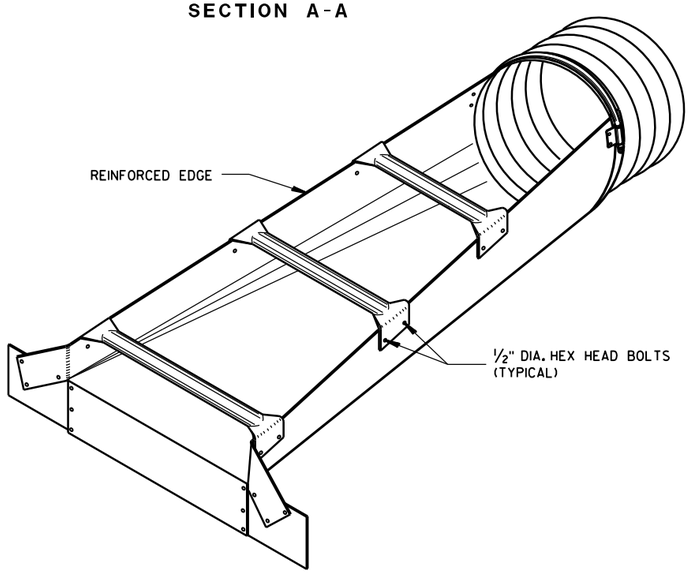


DETAIL OF SAFETY BAR

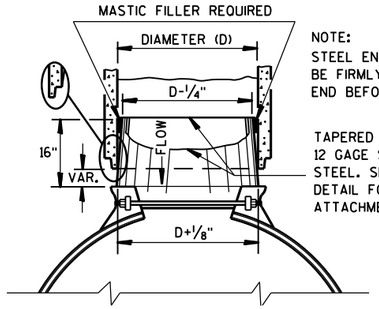
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

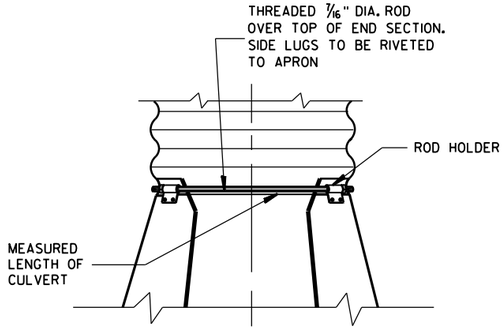
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



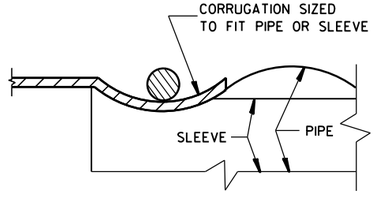
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

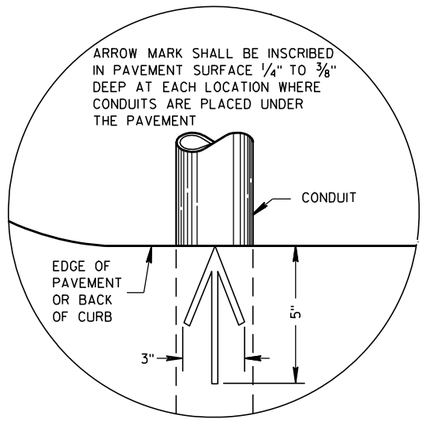
APPROVED
9/14/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 7-5

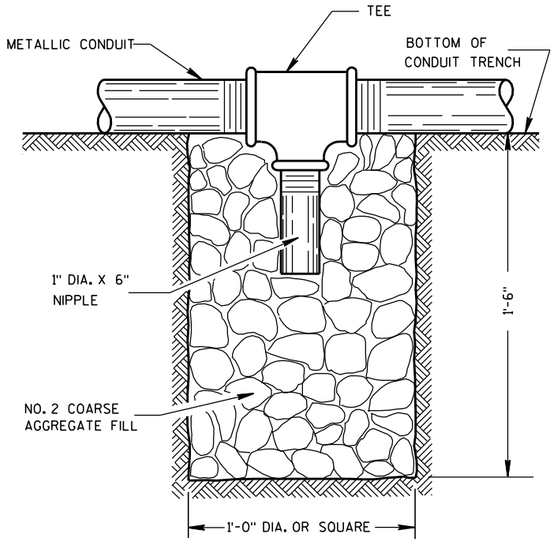
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S.D.D. 8 F 7-5



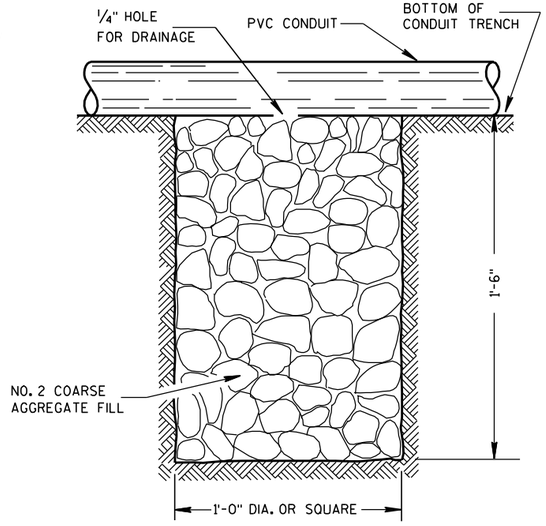
PLAN VIEW

ARROW MARK



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

DRAIN SUMP FOR METALLIC CONDUIT



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

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

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

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

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

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

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

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

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

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

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

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

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

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

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

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

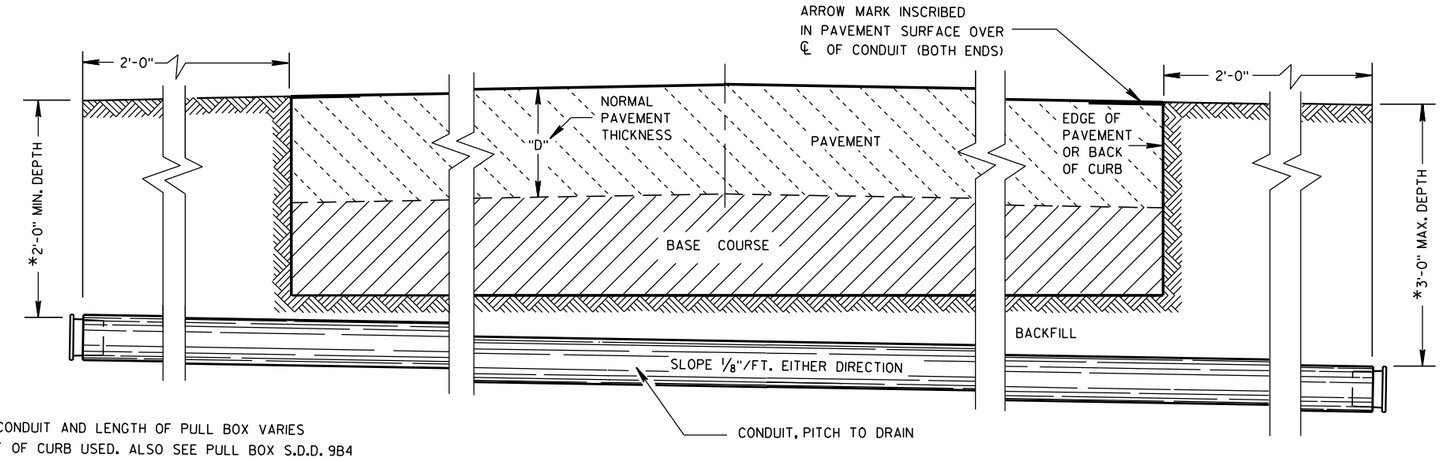
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

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

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

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

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



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

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/23/03 — DATE

/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGI

FHWA

HWYS

6

S.D.D. 9 B 2-7

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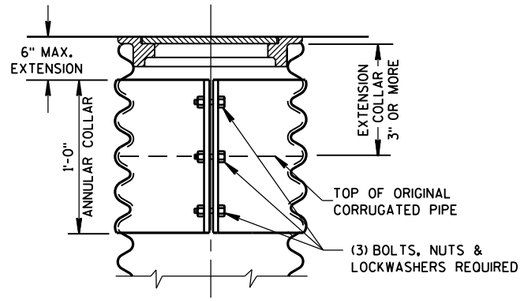
S.D.D. 9 B 2-7

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

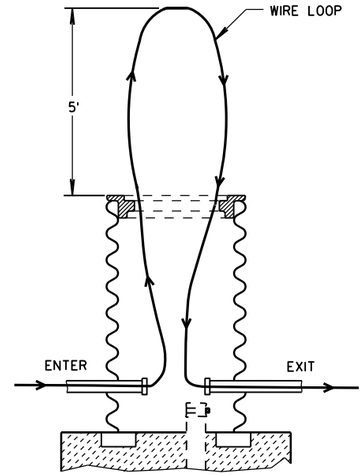
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2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

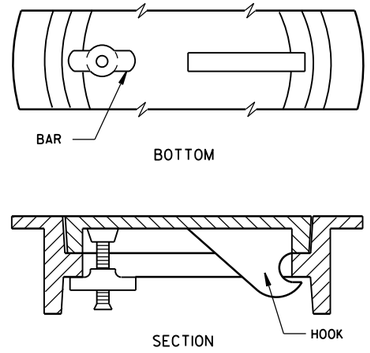
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

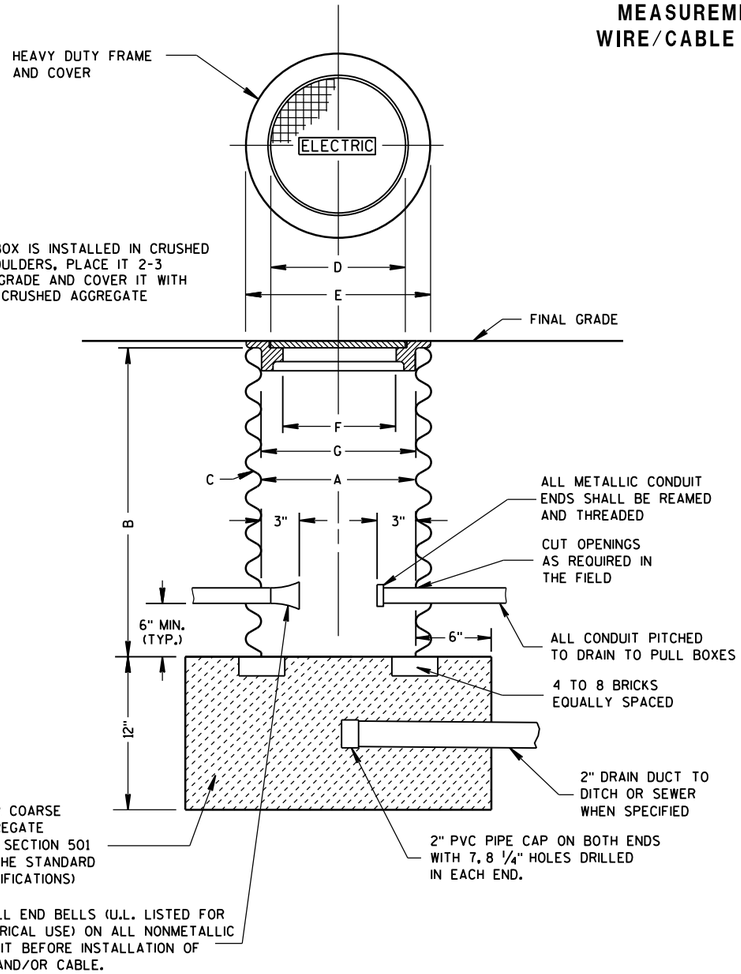


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



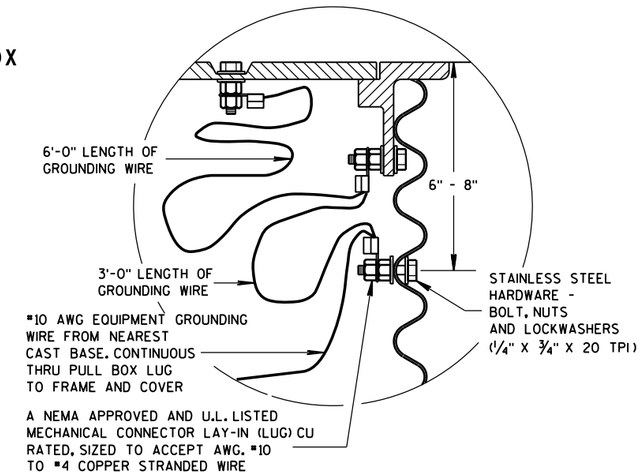
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

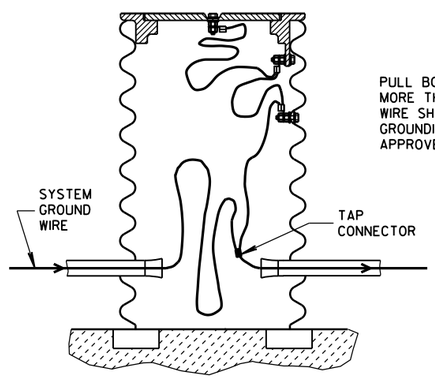


WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



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

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.

GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

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

S.D.D. 9B2, "CONDUIT", APPLIES TO THIS DRAWING.

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2-7-2013 — DATE

/S/ Ahmet Demirbilek — STATE ELECTRICAL

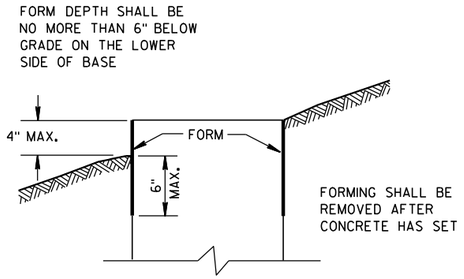
FHWA

6

S.D.D. 9 B 4-10

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S.D.D. 9 B 4-10



FORMING DETAIL

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

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

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

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

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

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

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

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

GENERAL NOTES (CONTINUED)

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

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

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

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

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

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

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

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

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

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

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

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

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

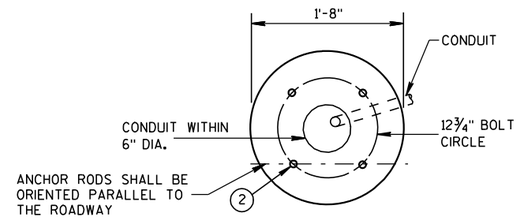
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

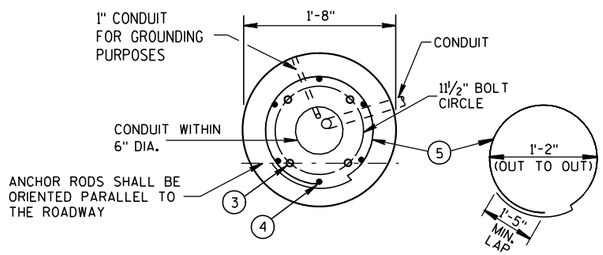
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

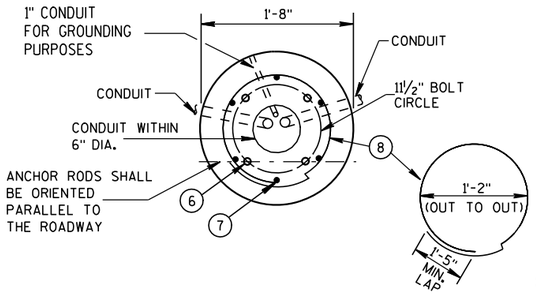
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

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

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

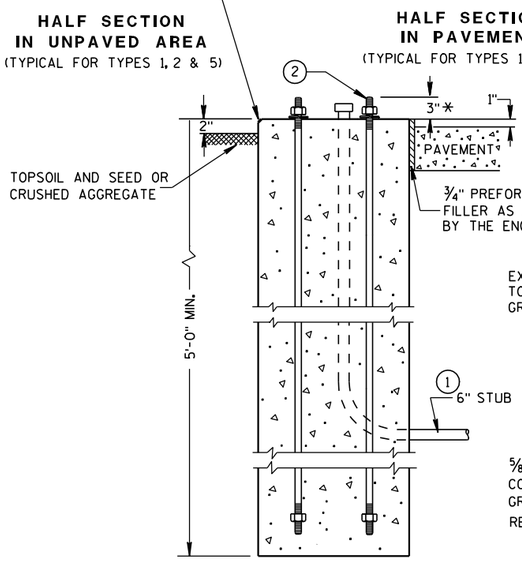






FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND

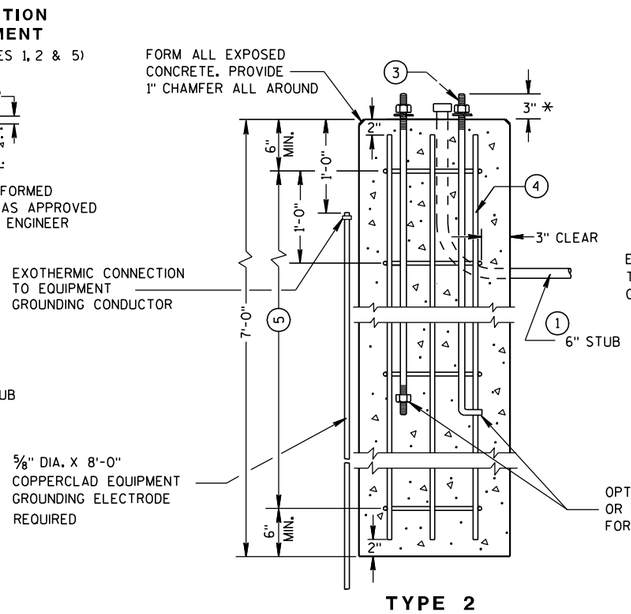
HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2 & 5)



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

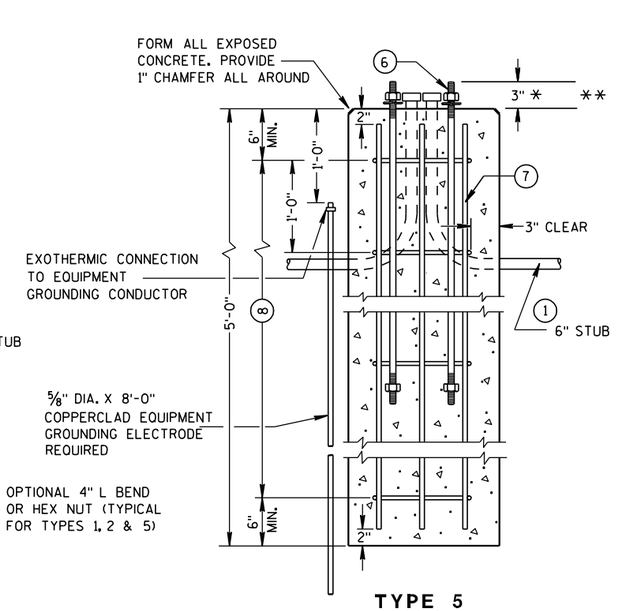
TYPE 1

FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND



TYPE 2

FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND



TYPE 5

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

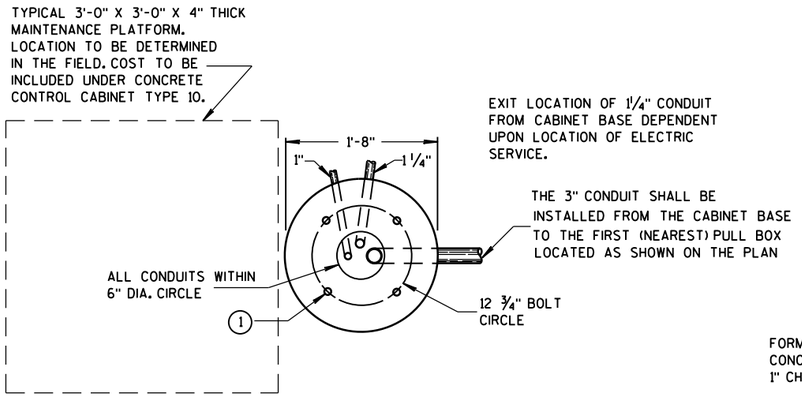
CONCRETE BASES, TYPES 1, 2 & 5

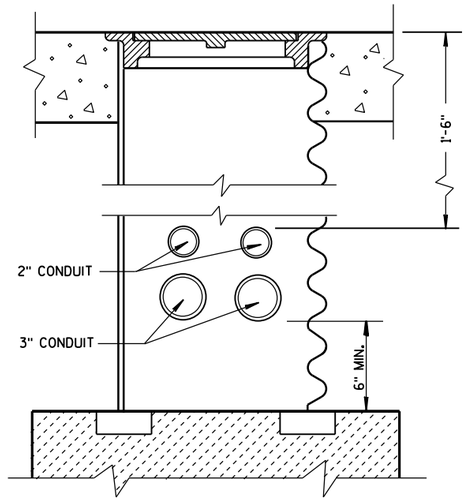
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/3/10 (DATE)
/S/ Joanna L. Rush
STATE ELECTRICAL ENGI 137 HWYS
FHWA

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

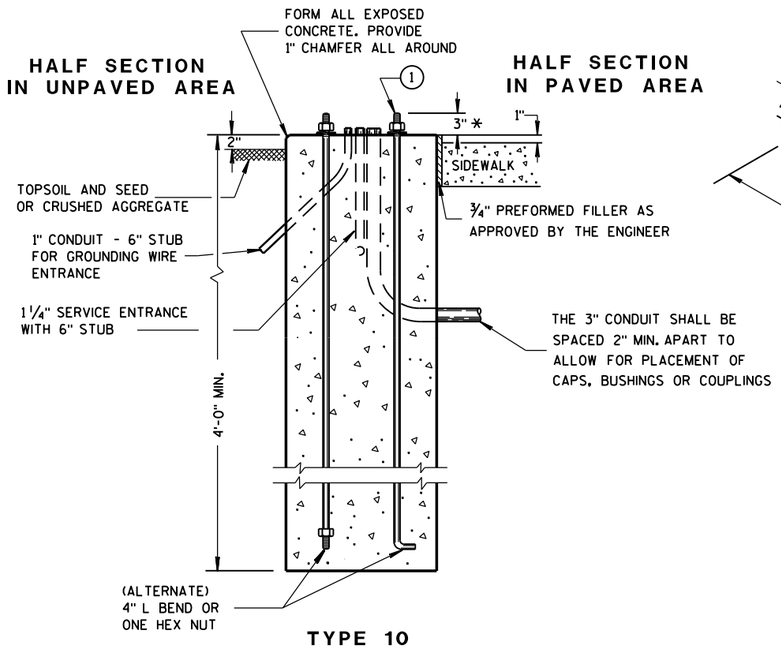
* INCLUDES MAINTENANCE PLATFORM.



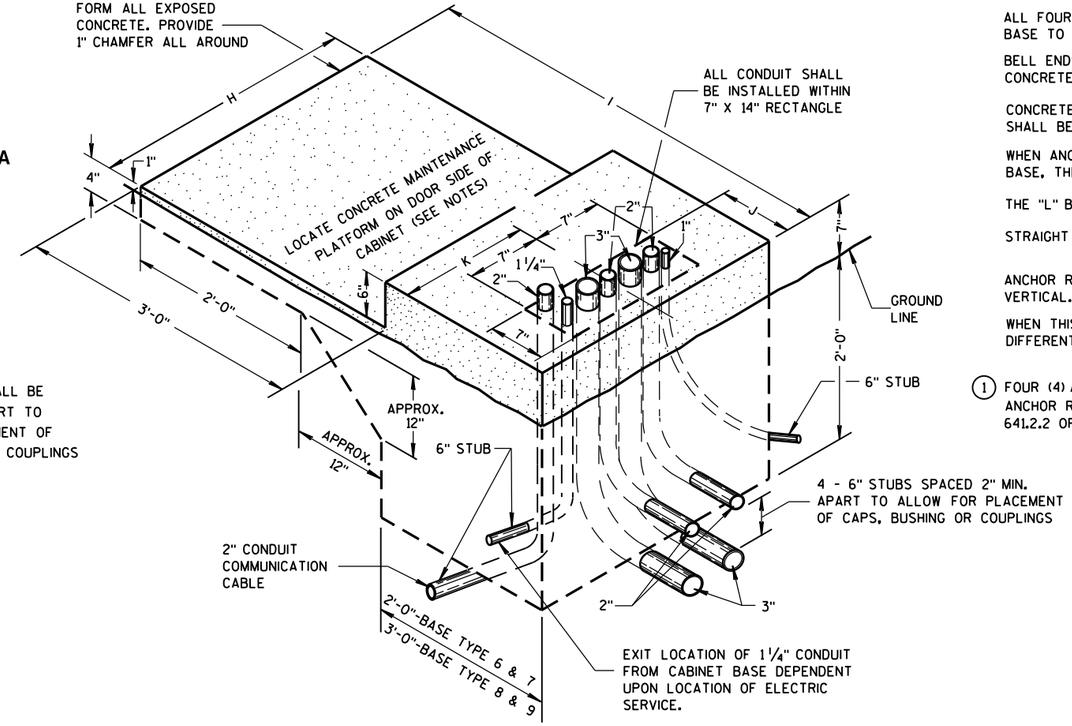


CONDUIT LOCATIONS IN 24" X 36" PULL BOX

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



TYPE 10



TYPE 6,7,8 AND 9
(ISOMETRIC VIEW)

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

GENERAL NOTES

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

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS 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.

WHEN THIS DRAWING IS USED FOR STREET LIGHTING CABINET BASES, CONDUIT MAY BE DIFFERENT AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

(1) FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6"
ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS.

CONCRETE CONTROL CABINET BASES

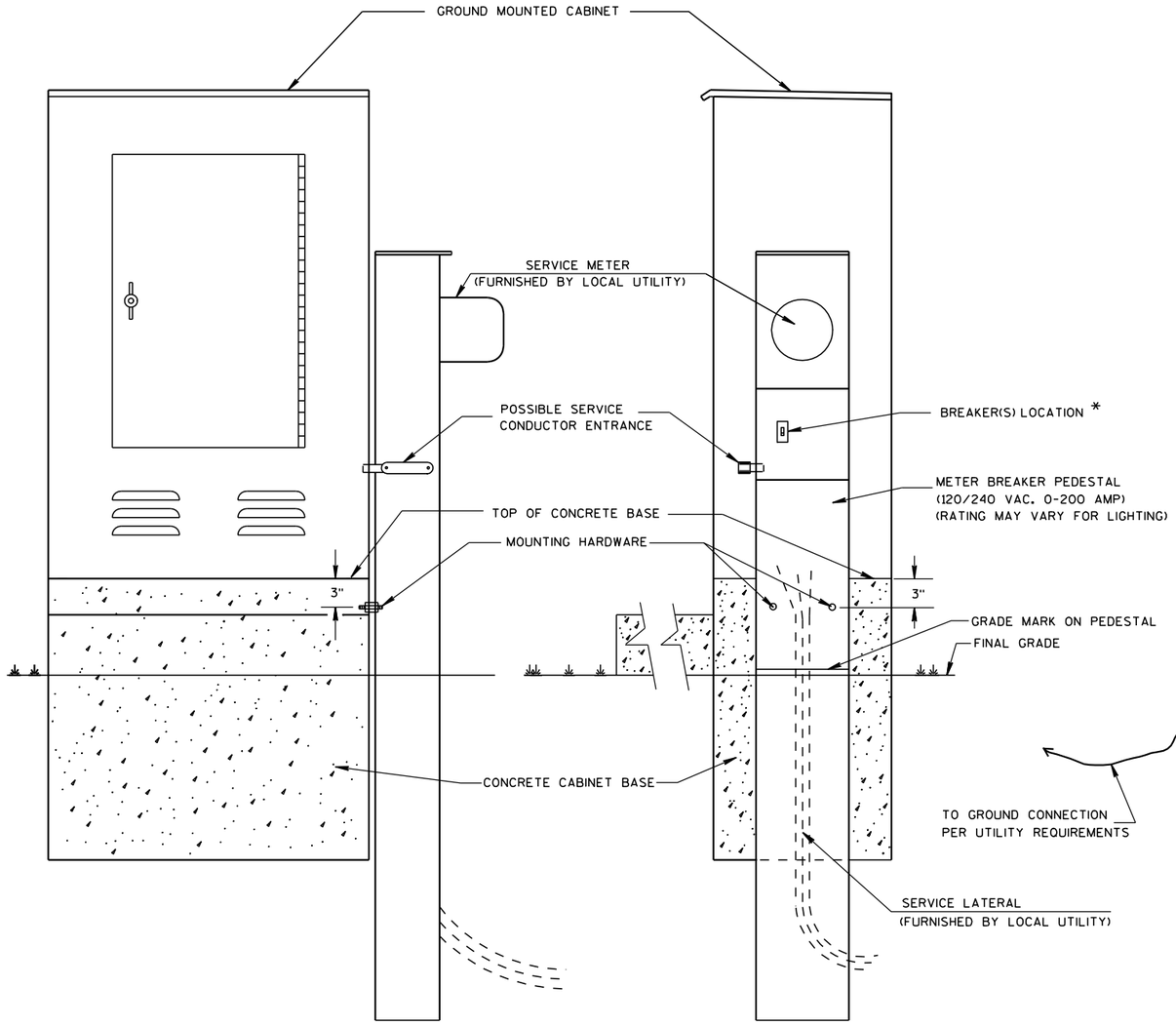
CONCRETE CONTROL CABINET BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/26/2013 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 5-8



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.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/27/09 DATE

/S/ Joanna L. Bush
STATE ELECTRICAL ENGI

FHWA

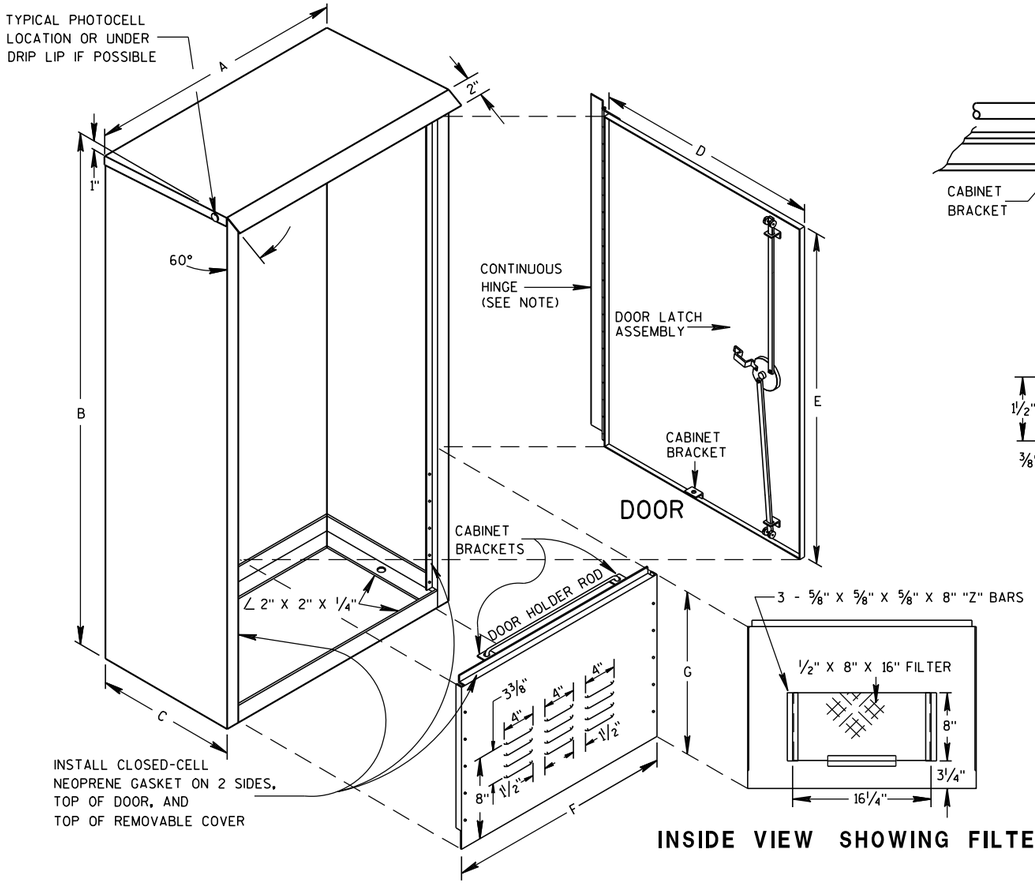
HWYS

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S.D.D. 9 D 1-4

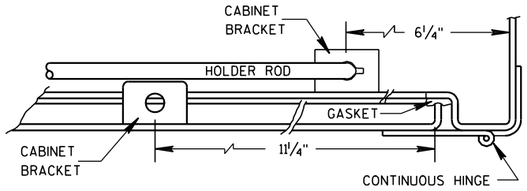
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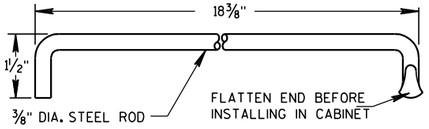


REMOVABLE COVER

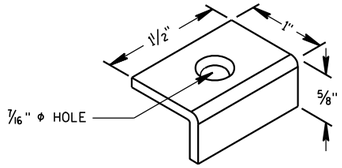
INSIDE VIEW SHOWING FILTER



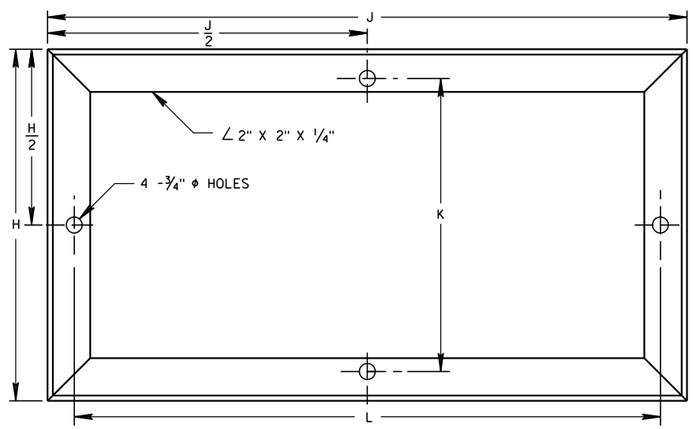
HINGE & DOOR HOLDER



HOLDER ROD



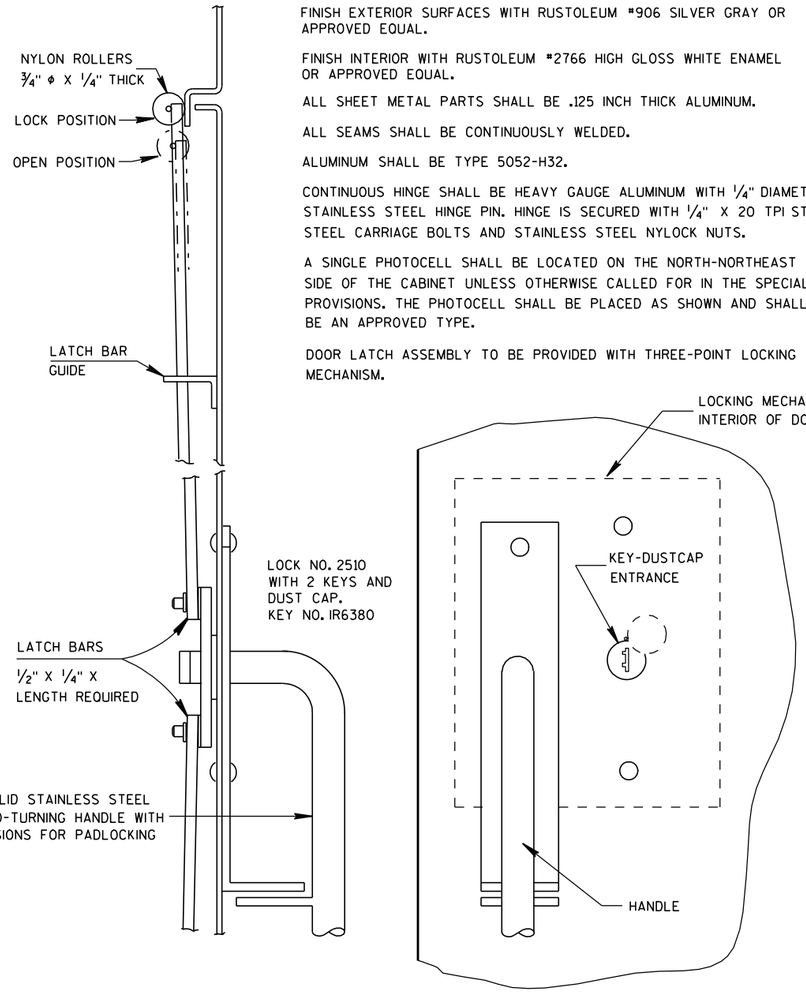
CABINET BRACKET



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

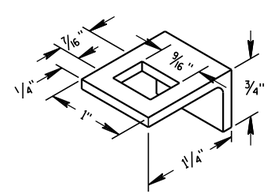
MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

GENERAL NOTES

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

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE AN APPROVED TYPE.

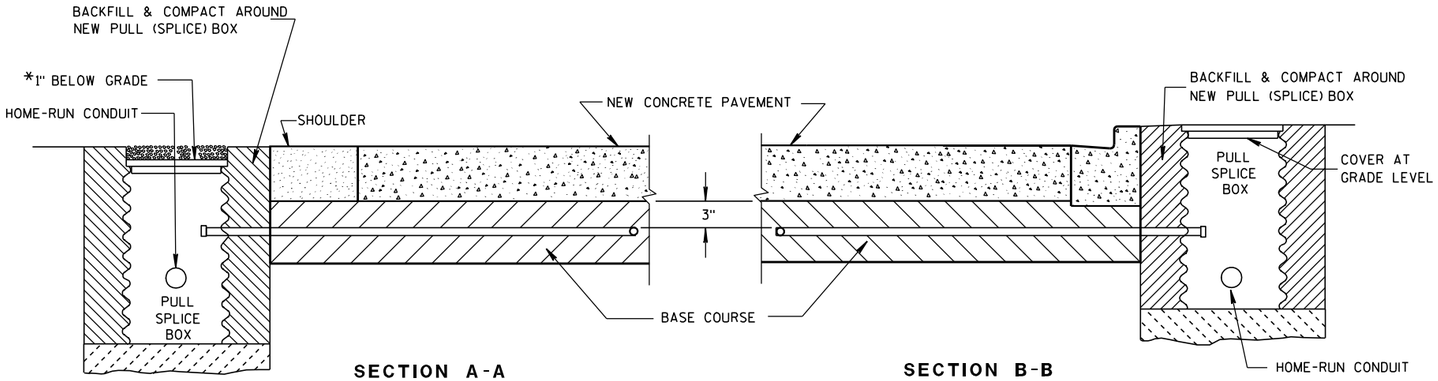
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.

SIGNAL OR LIGHTING CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/21/96 — DATE
/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGI
FHWA

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S.D.D. 9 D 2-2



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS SUCH AS 3M TYPE 82A1 OR APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

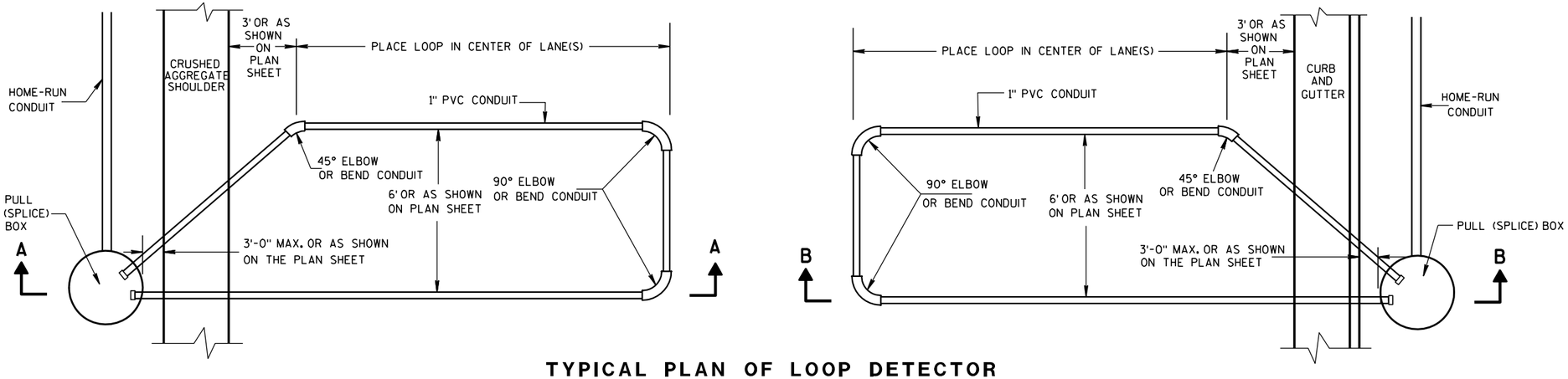
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICE CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE, SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 18" OR 24" PULL (SPLICE) BOX

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/7/06
DATE

/S/ Balu Aganthanarayanan
STATE ELECTRICAL ENGI

141

HWYS

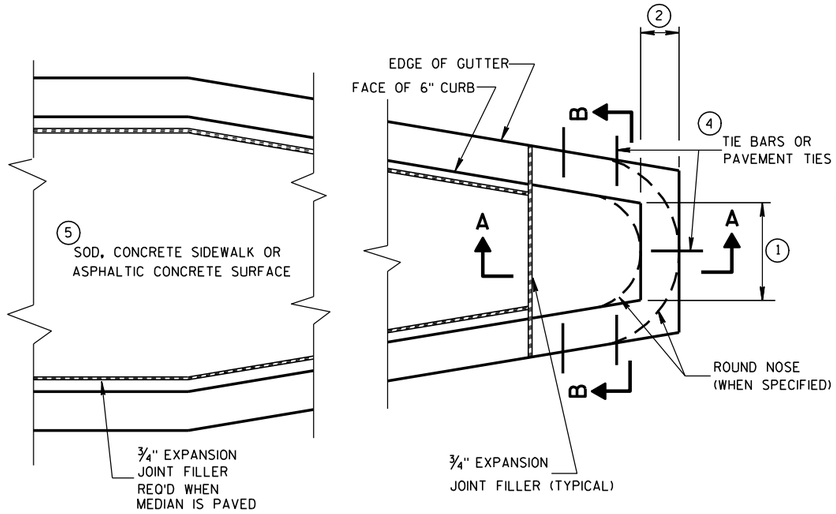
FHWA

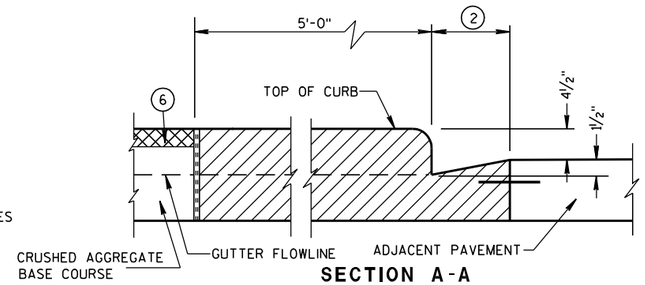
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S.D.D. 9 F 15-3a

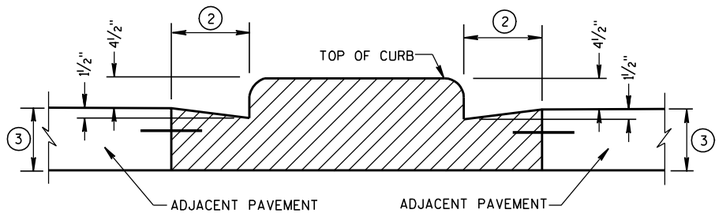
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S.D.D. 9 F 15-3a





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.

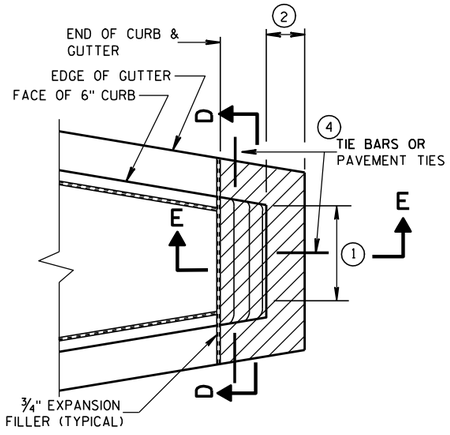
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

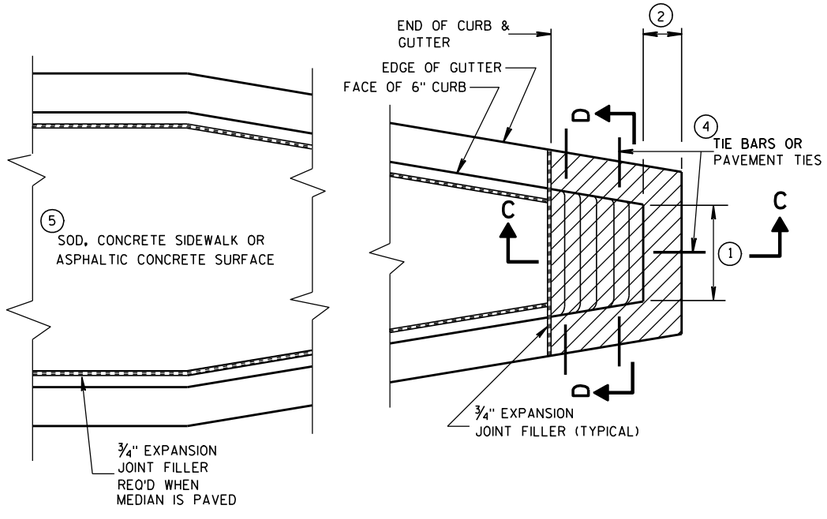
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

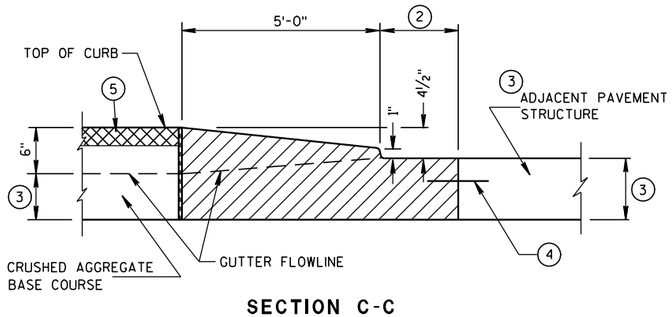
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

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.

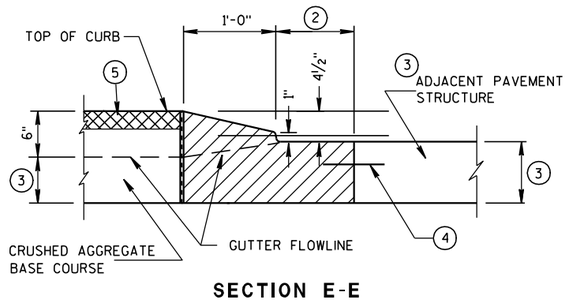
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.







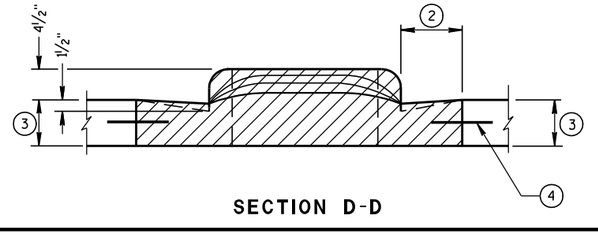
SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

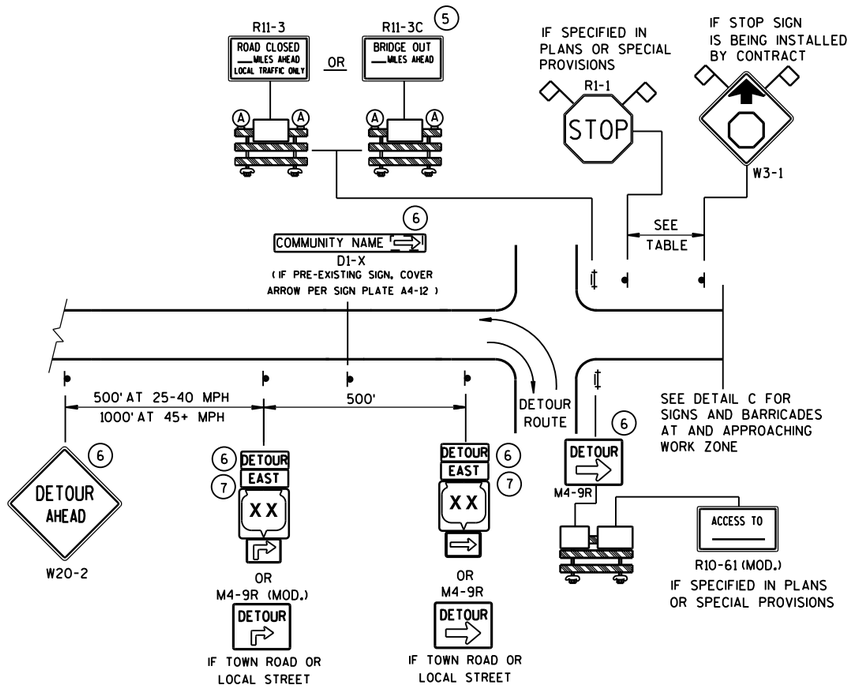
CONCRETE MEDIAN NOSE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6/8/2006 DATE FHWA	/S/ Jerry H. [illegible] ROADWAY STANDARDS ENGINEER 142 NT

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S.D.D. 11 B 2-2

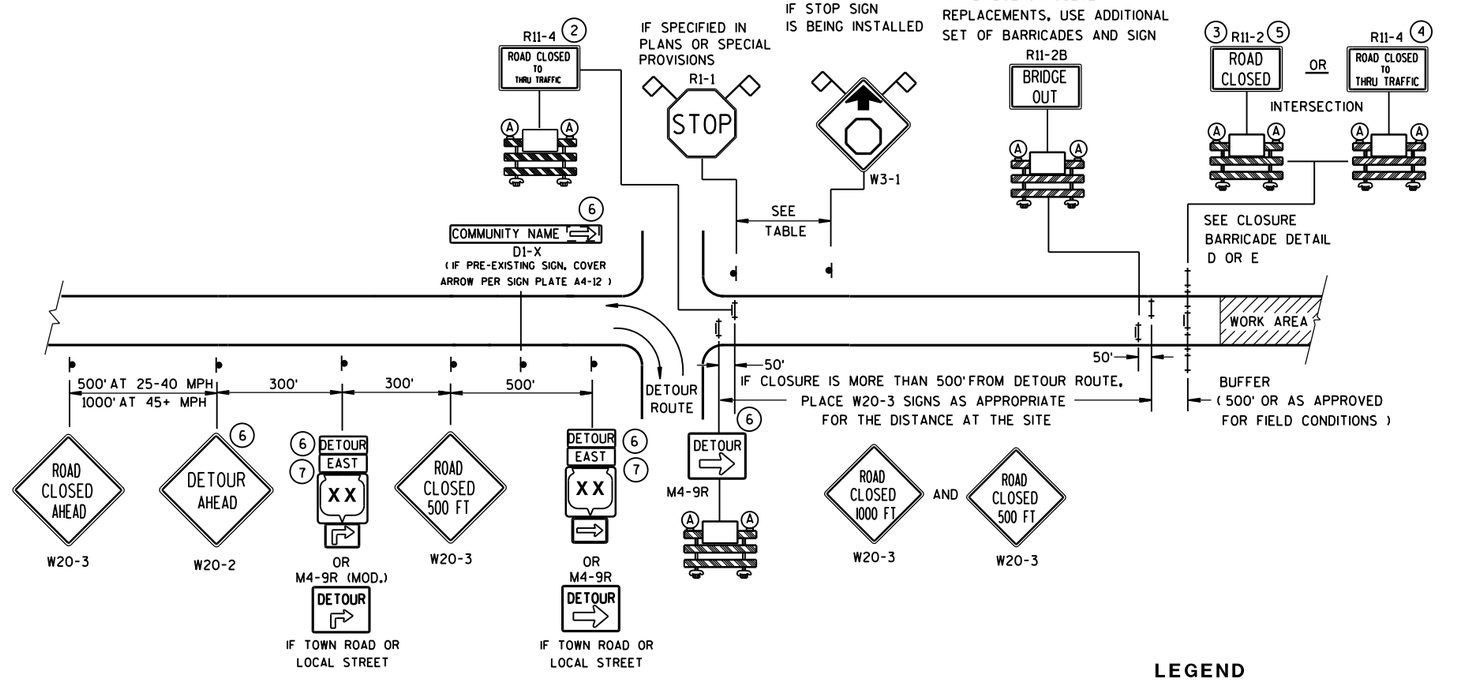
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S.D.D. 11 B 2-2



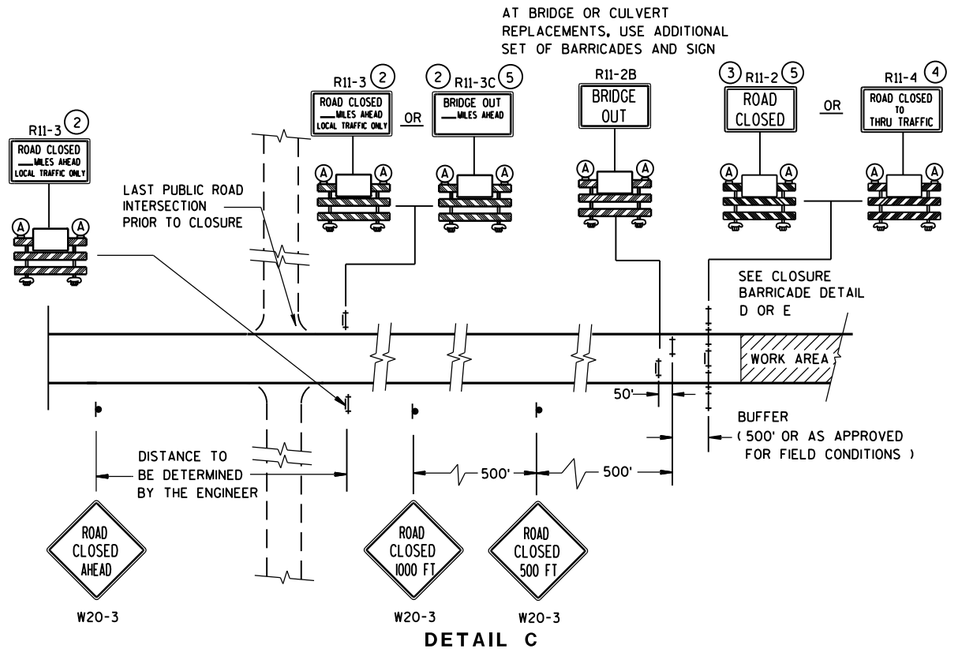
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "**b**" FOR GENERAL NOTES AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

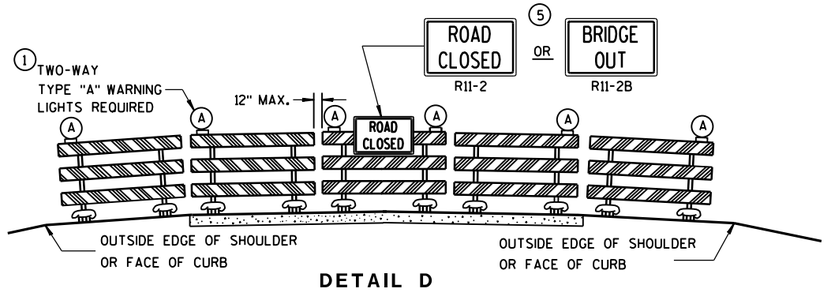
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

8/2013 DATE — /S/ Travis Feltes STATE TRAFFIC ENGINEER — DESIGN

FHWA

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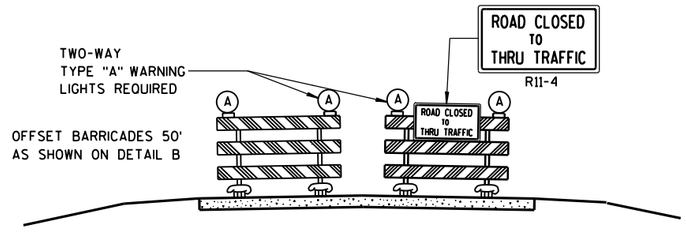
S.D.D. 15 C 2-5a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

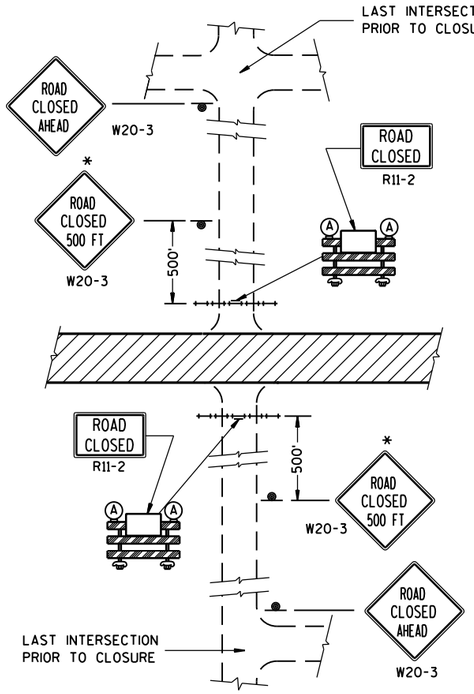
8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

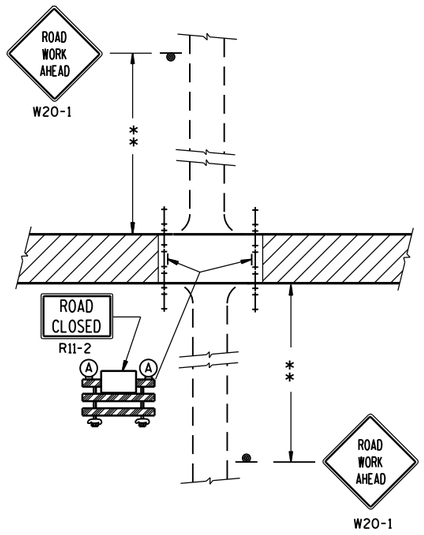
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S.D.D. 15 C 2-5b



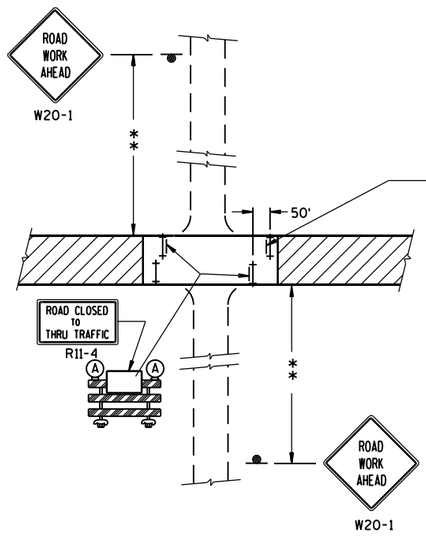
DETAIL 1

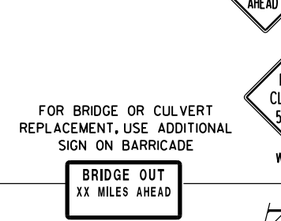
(NO ACCESS TO PROJECT)



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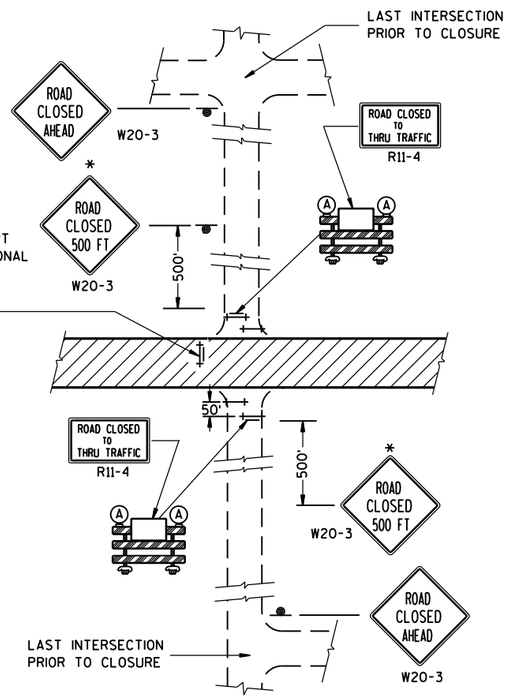
(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).





DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

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 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

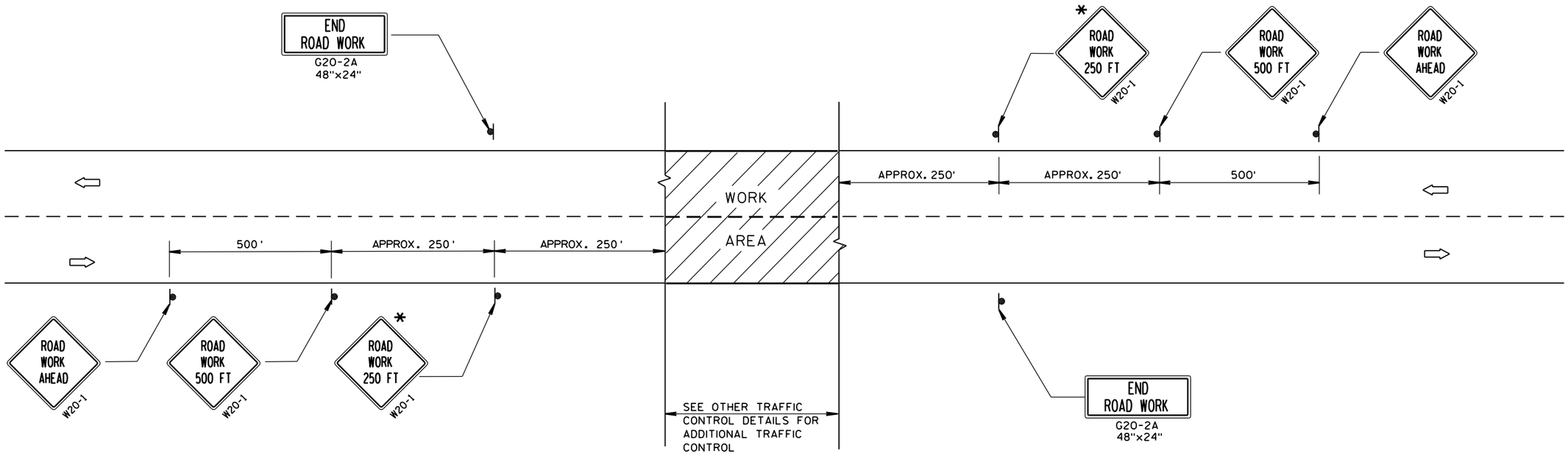
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S.D.D. 15 C 3-2

6

S.D.D. 15 C 3-2

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

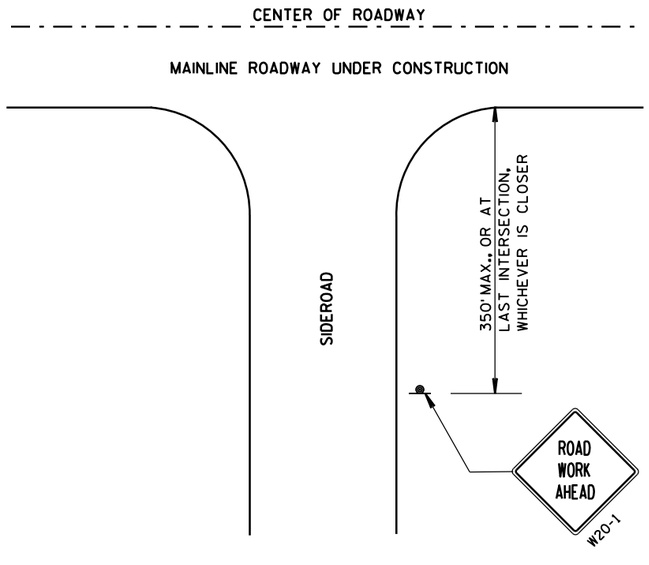
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 DATE — /S/ Travis Feltes STATE TRAFFIC ENGINEER — SIGN

FHWA

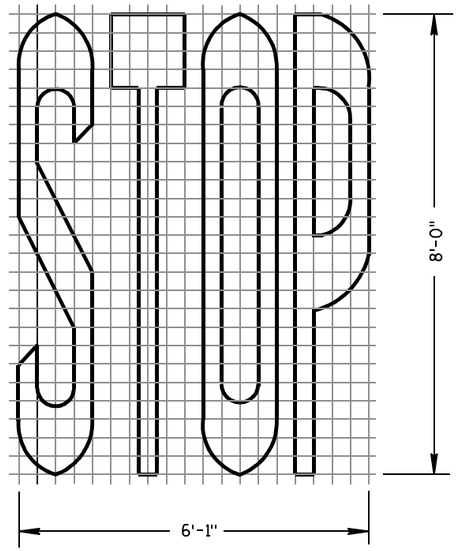
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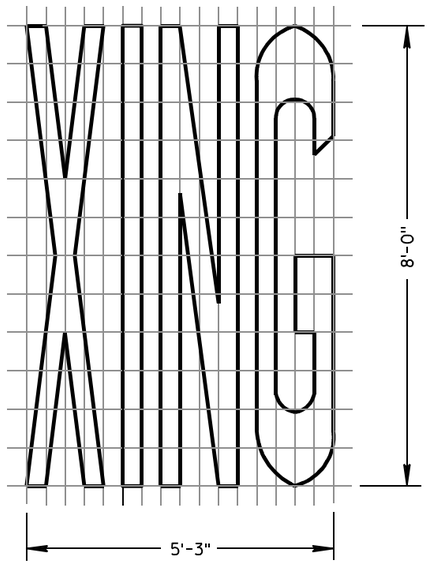
S.D.D. 15 C 5-2

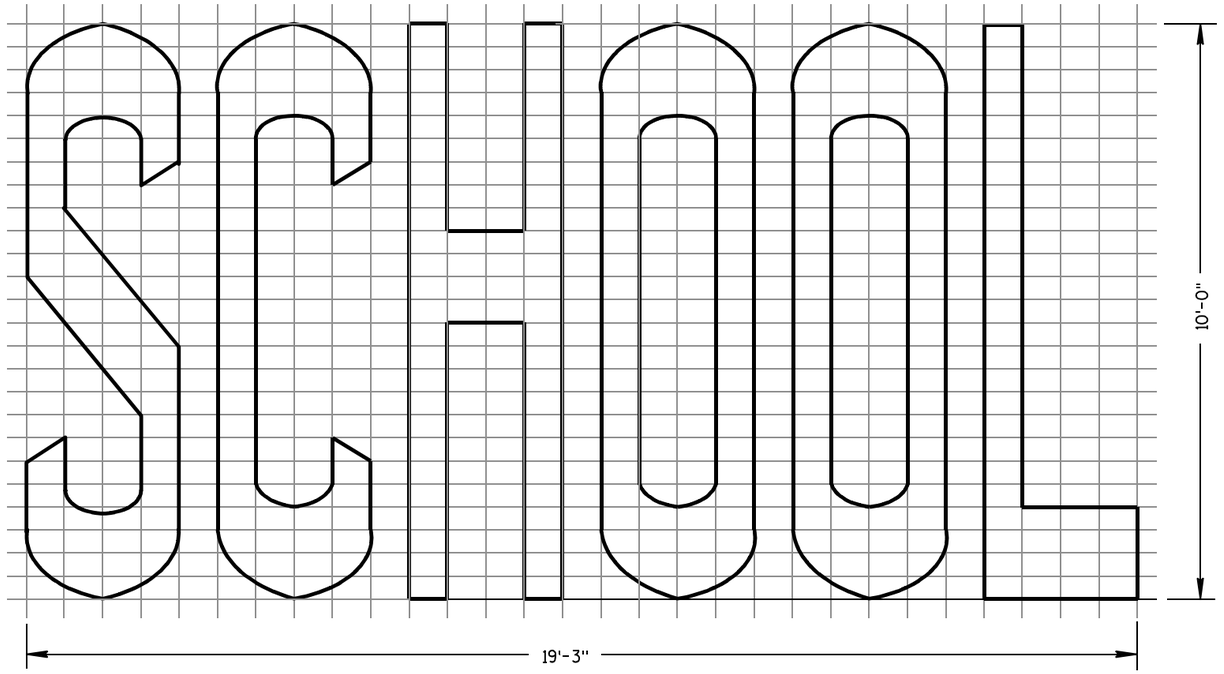
GENERAL NOTES

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

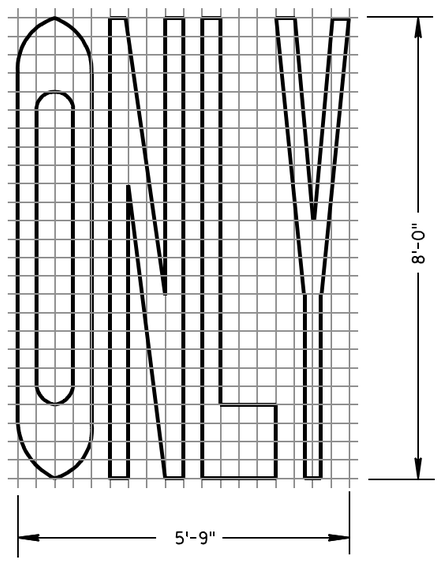
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

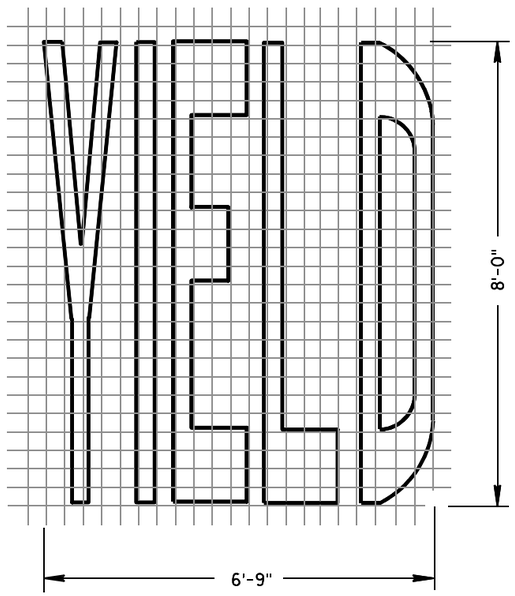


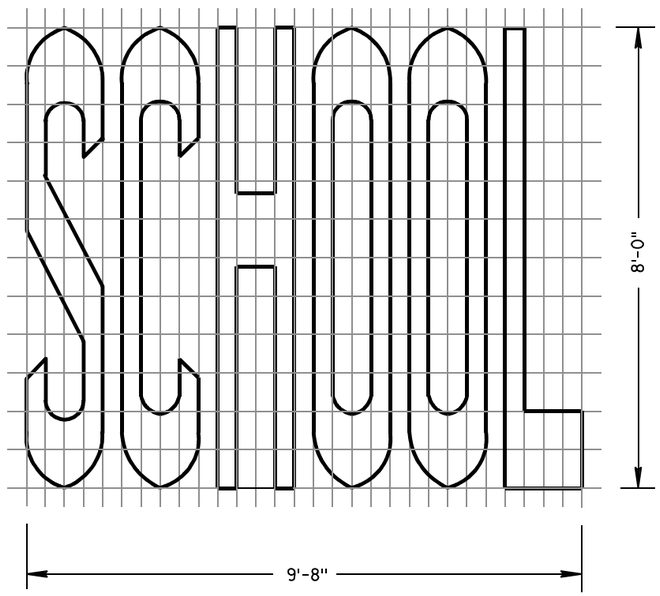




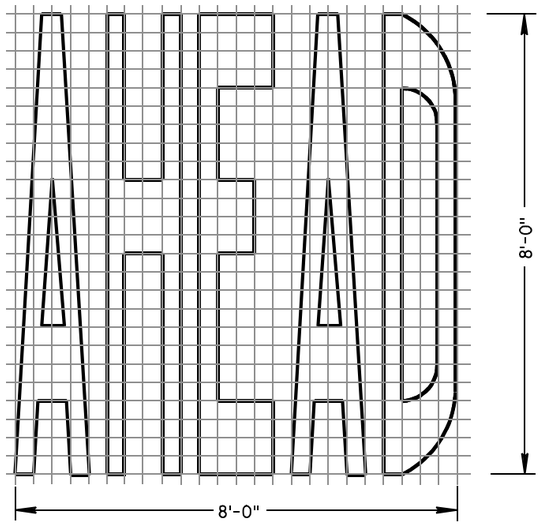
TWO-LANE







SINGLE-LANE



PAVEMENT MARKING WORDS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 7-1-11 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER
FHWA	

6

S.D.D. 15 C 7-12b

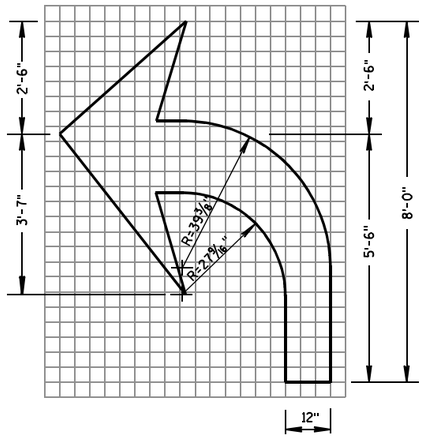
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S.D.D. 15 C 7-12b

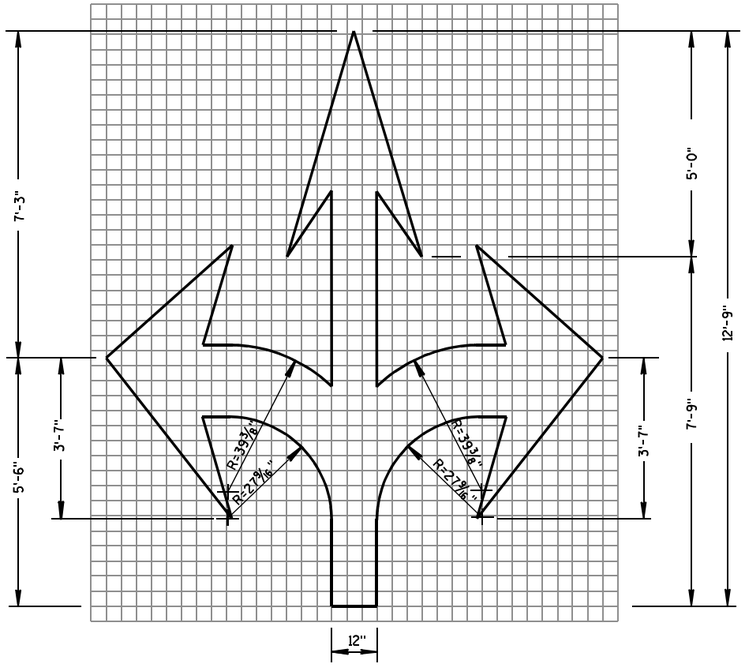
GENERAL NOTES

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

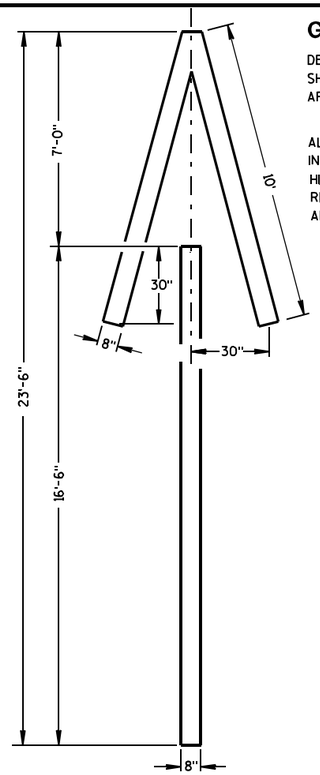
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



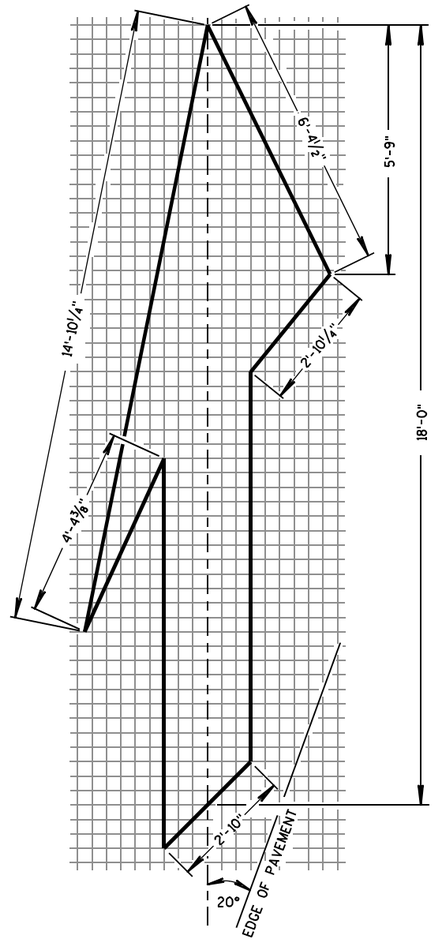
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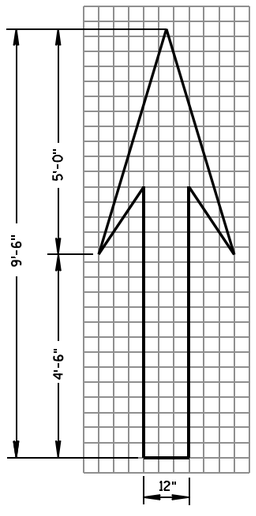
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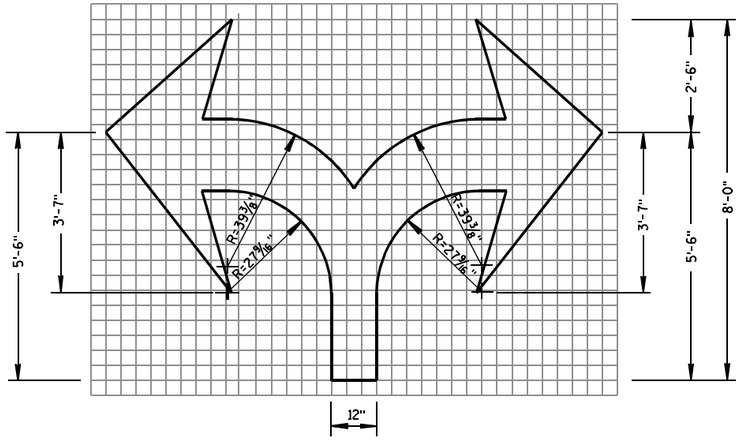
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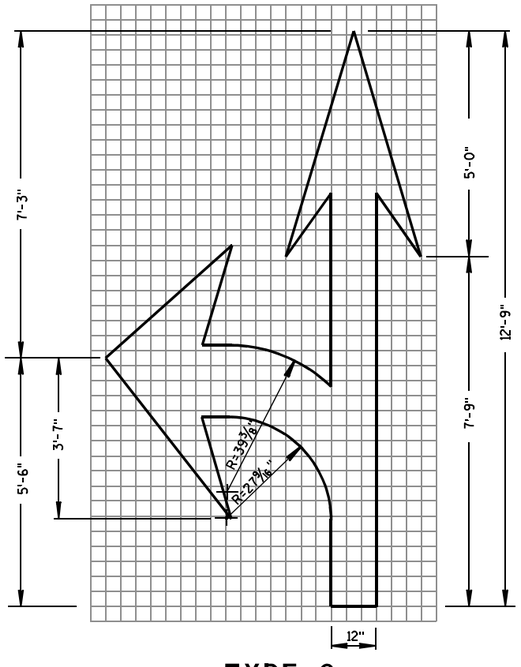
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

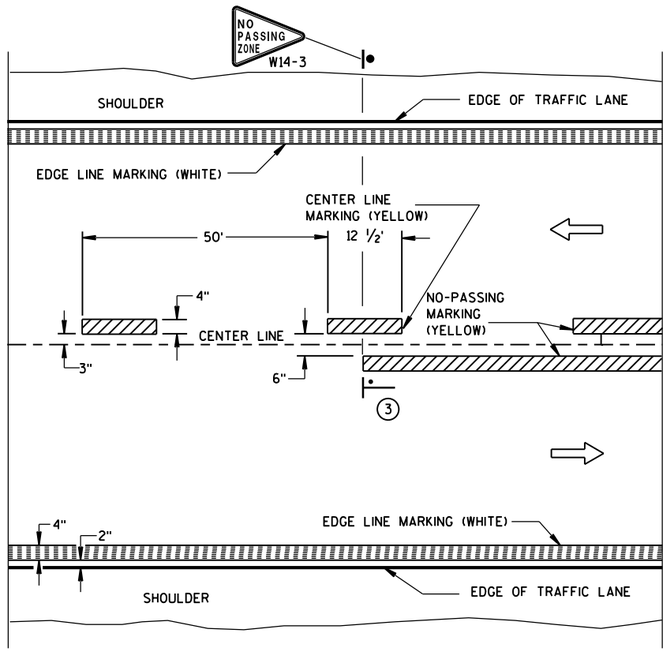
7/1/11 — DATE

/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

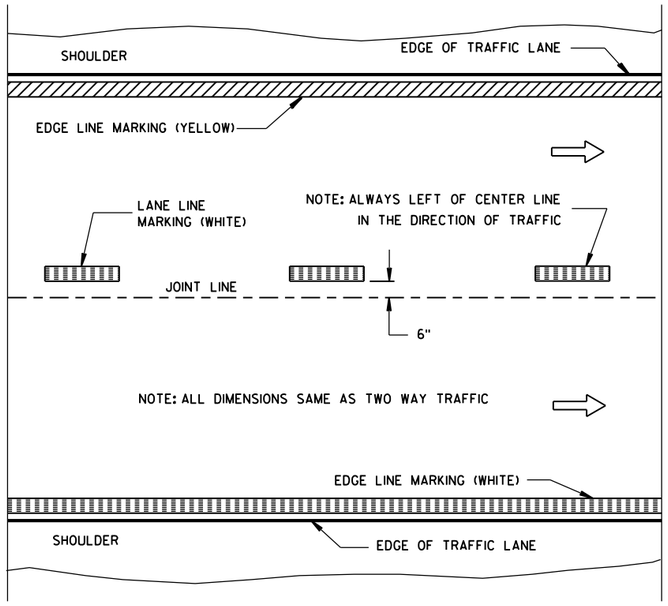
FHWA

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S.D.D. 15 C 7-12c

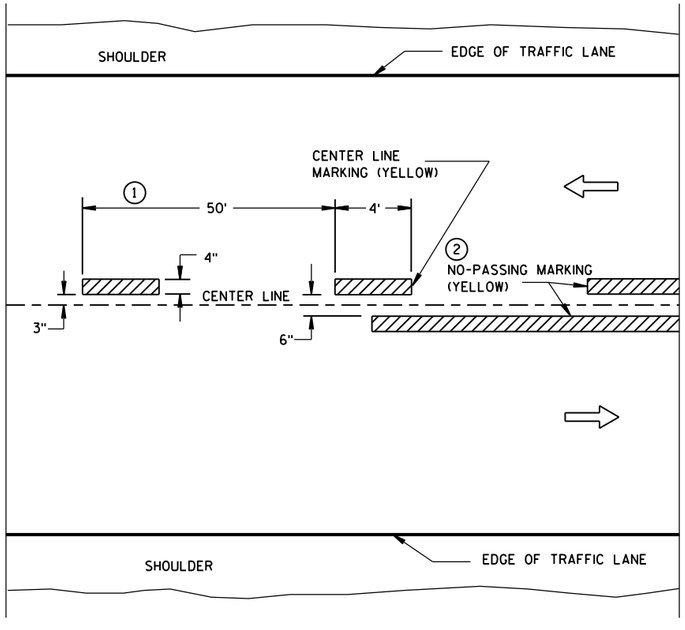


TWO WAY TRAFFIC

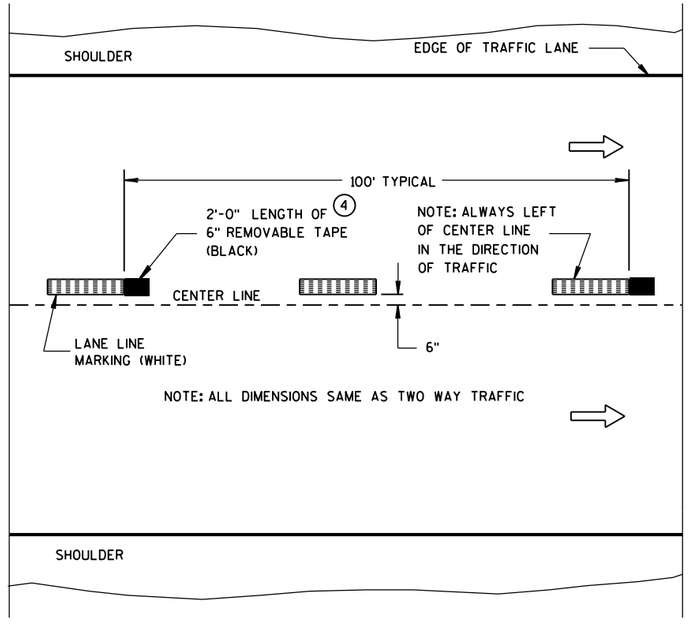


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

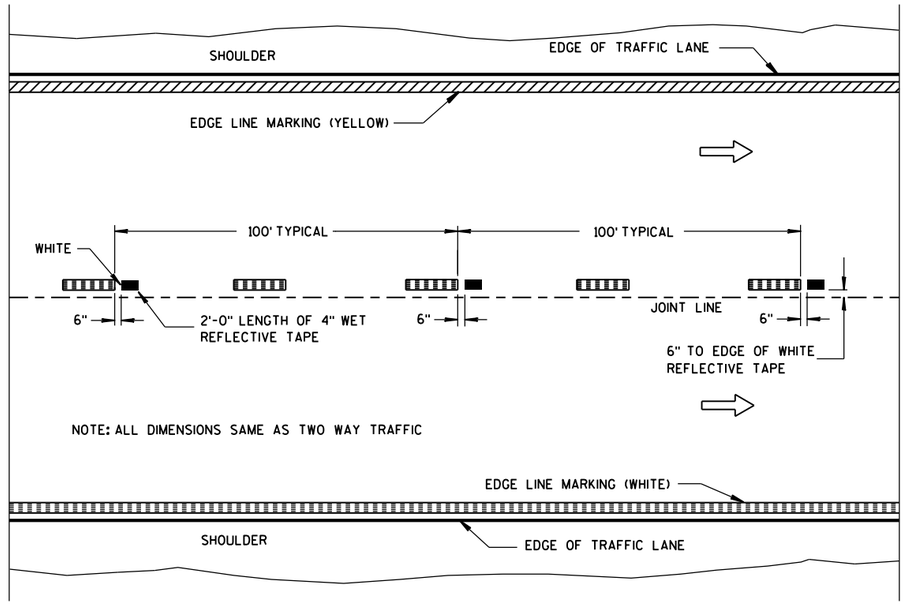
GENERAL NOTES

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

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-13-2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

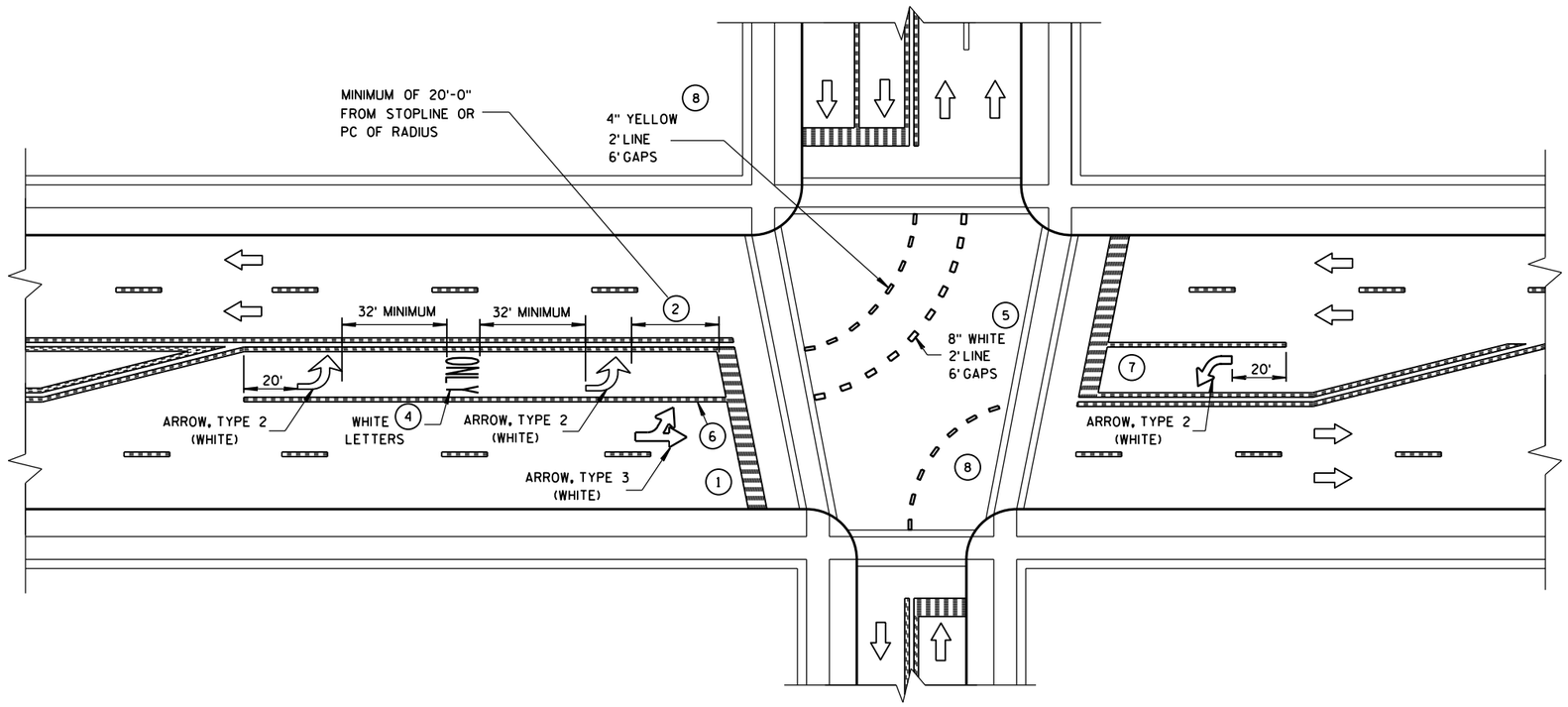
FHWA

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S.D.D. 15 C 8-16a

6

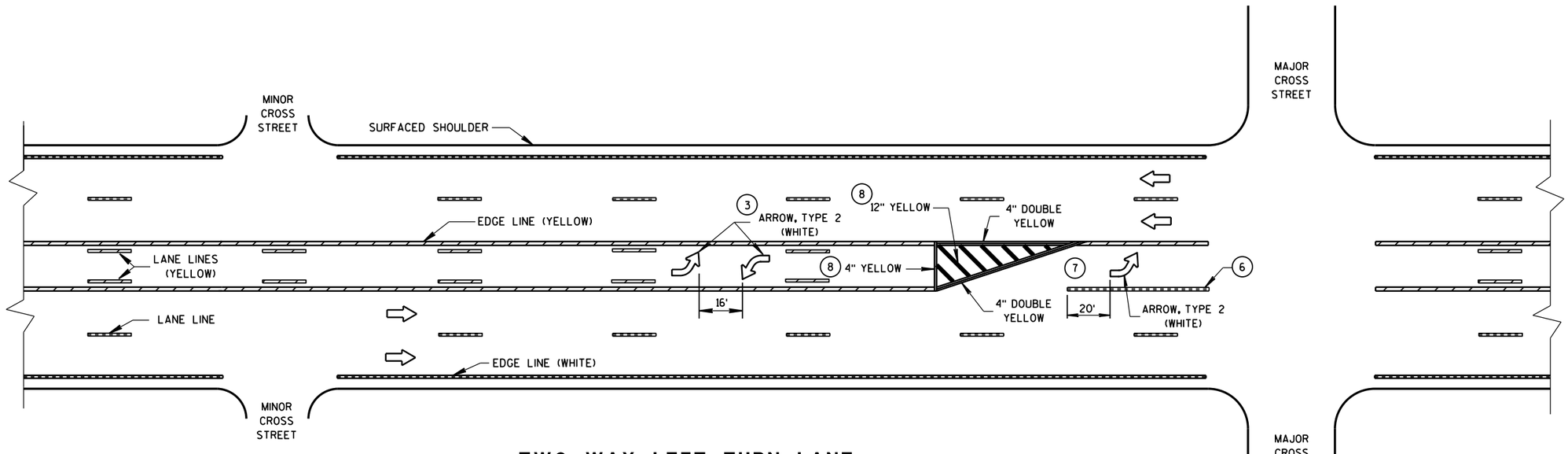
S.D.D. 15 C 8-16a



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

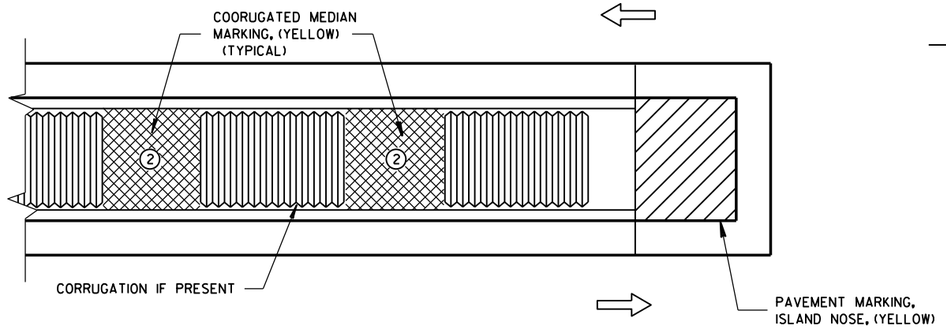
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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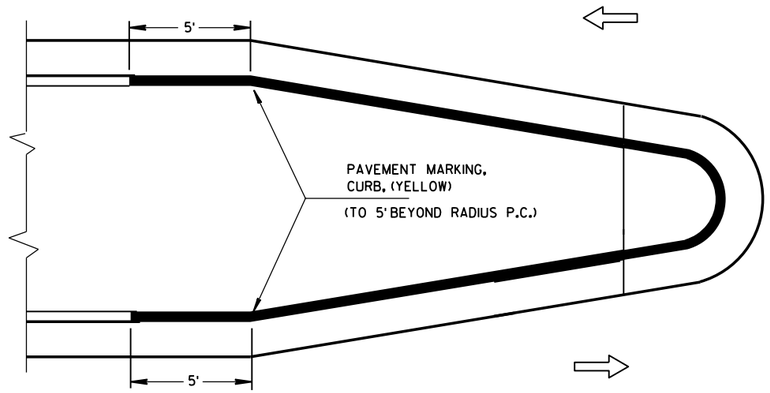
S.D.D. 15 C 8-16e

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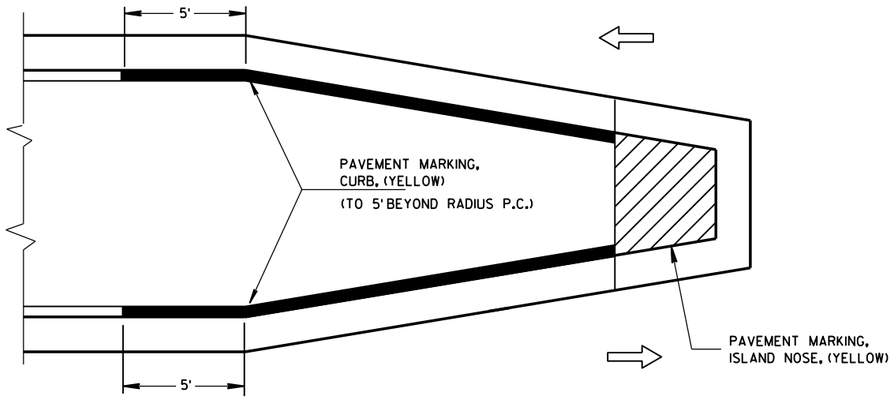
S.D.D. 15 C 8-16e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

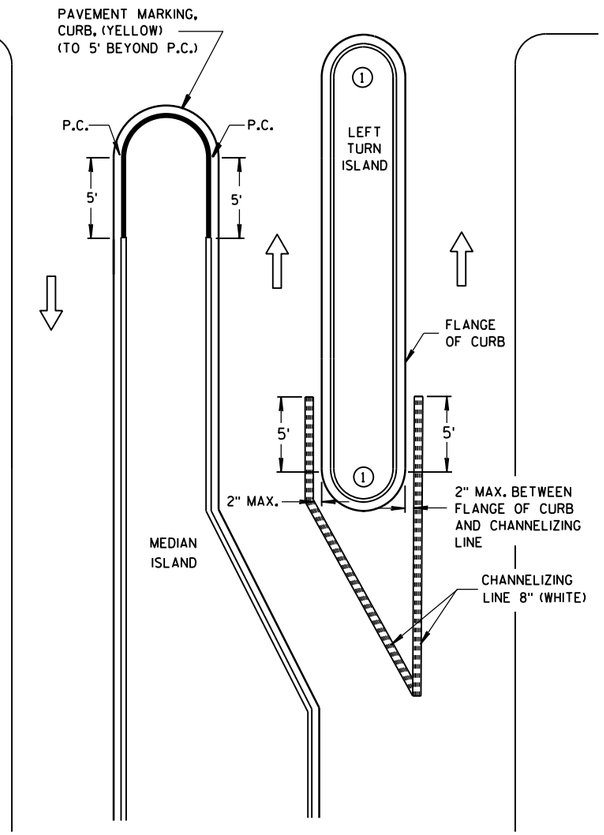


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

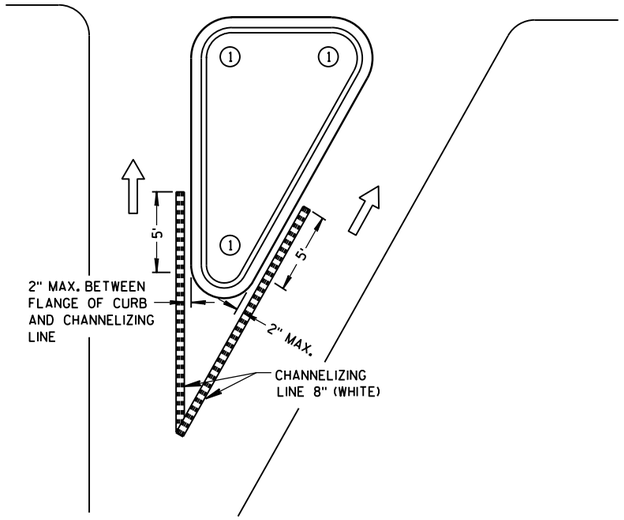


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 C 8-16f

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S.D.D. 15 C 8-16f

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

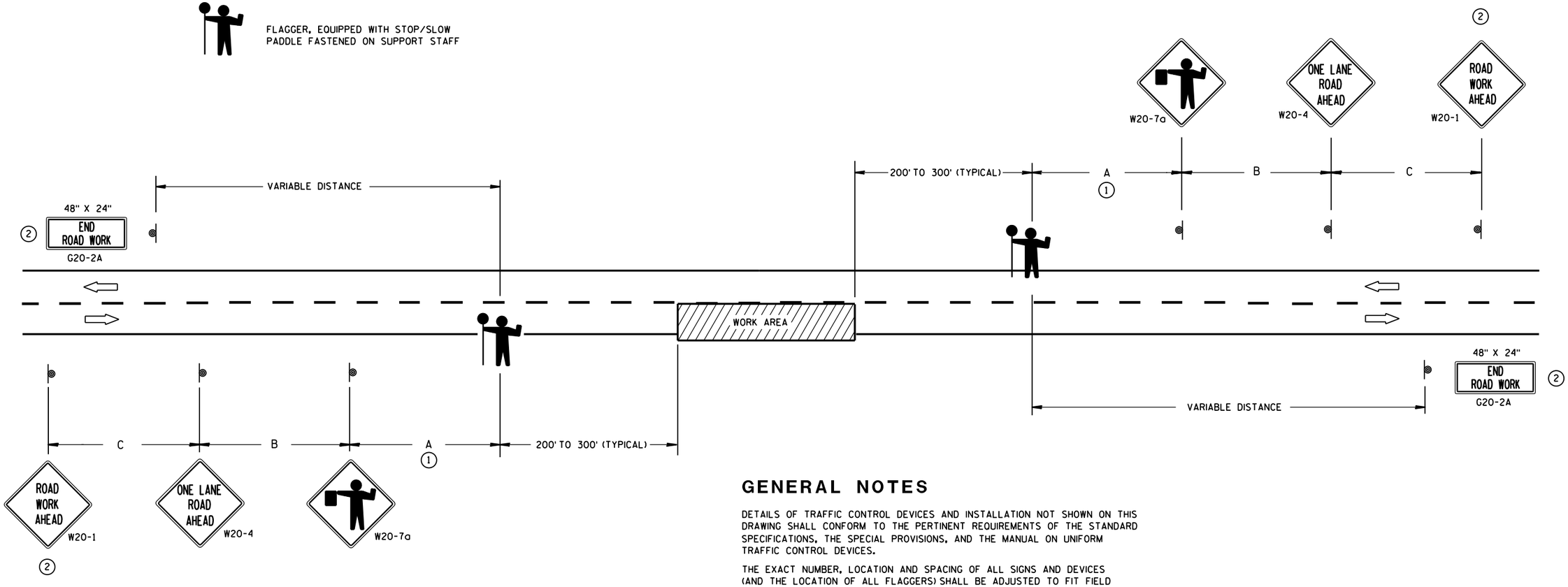
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

BE PREPARED TO STOP
W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

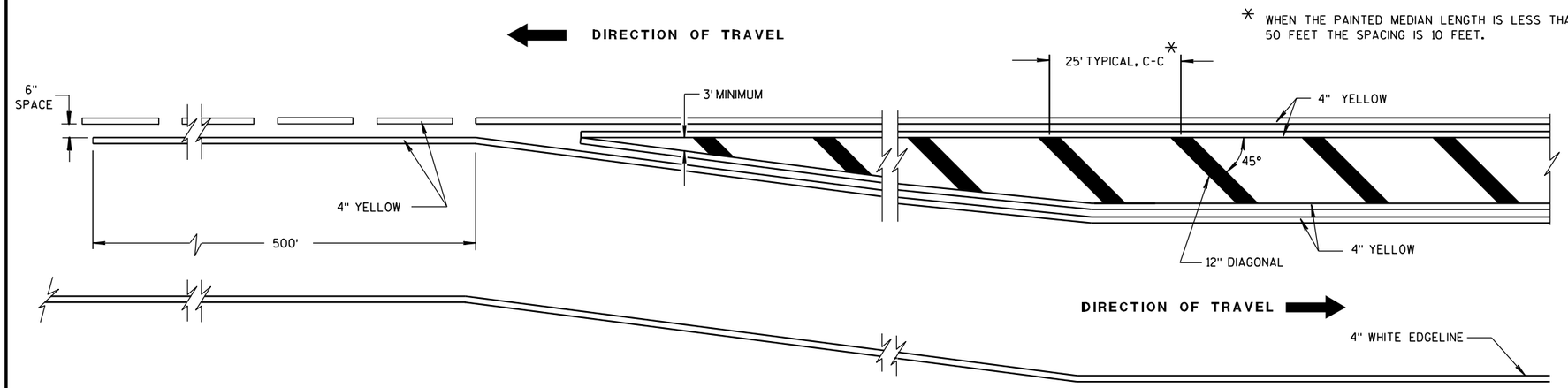
APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 12-4

6

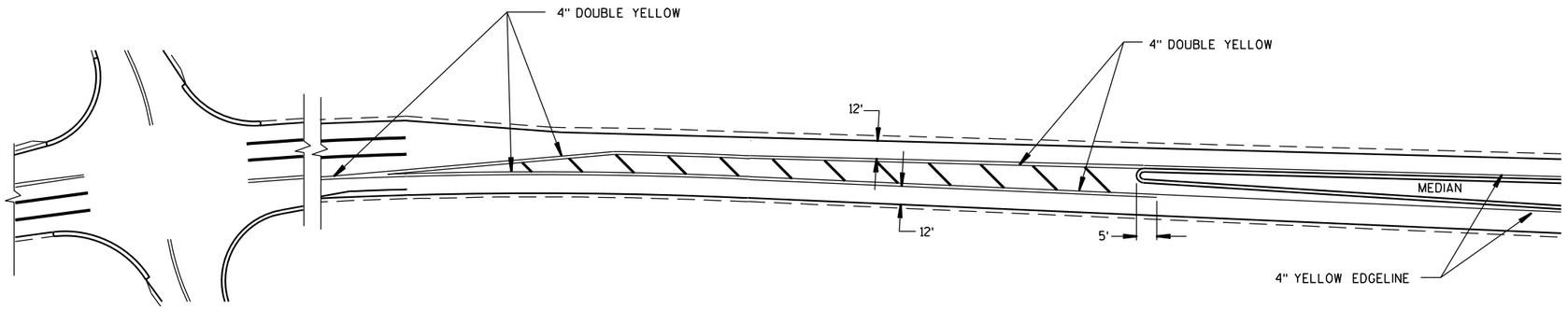
S.D.D. 15 C 12-4



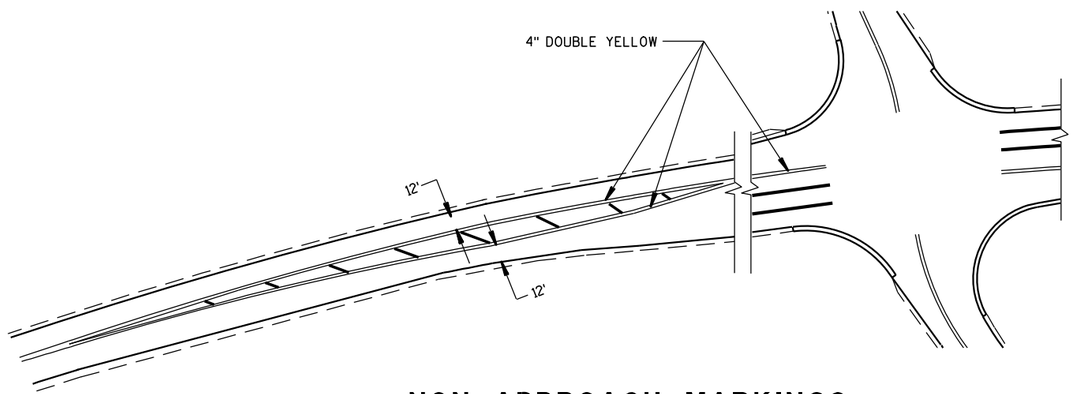
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

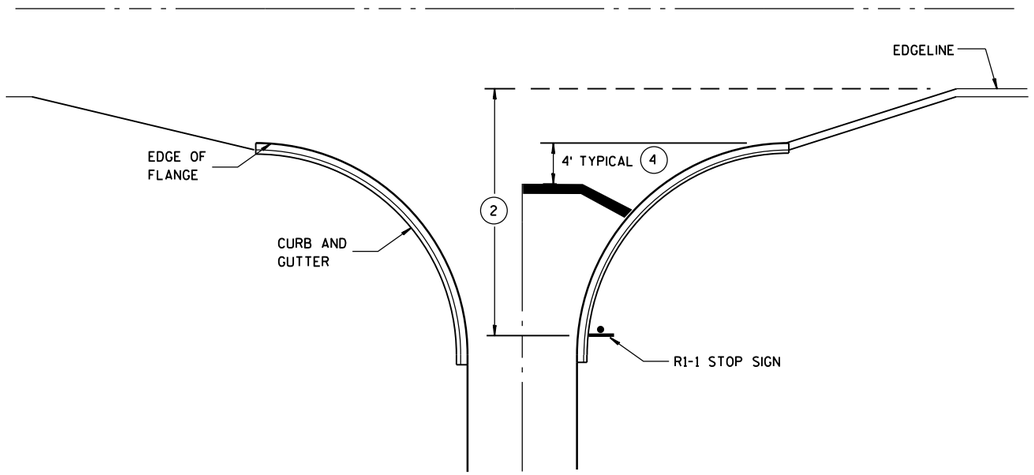
MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER
FHWA	153 IGN

6

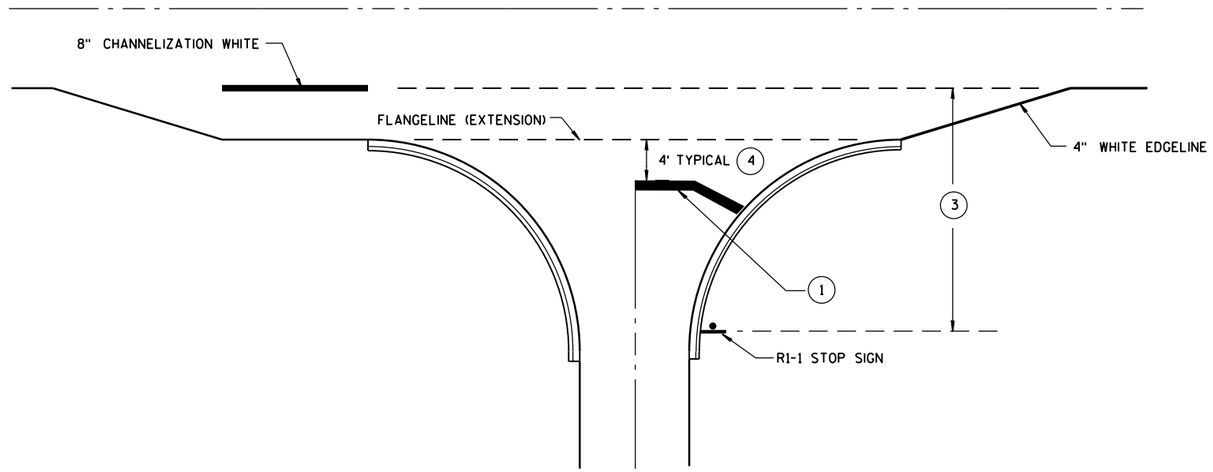
S.D.D. 15 C 18-3

6

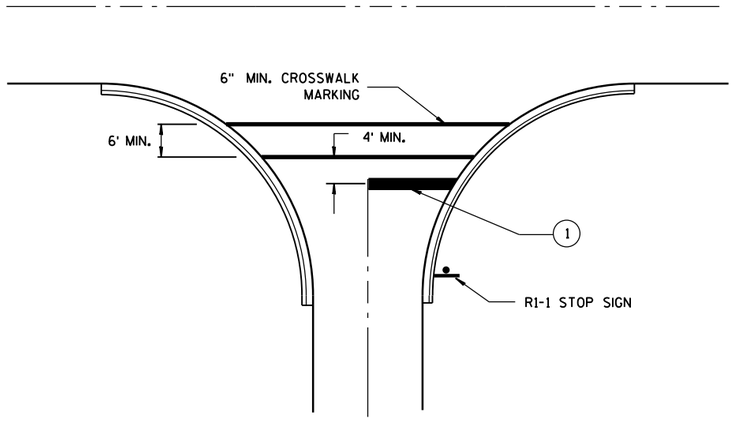
S.D.D. 15 C 18-3



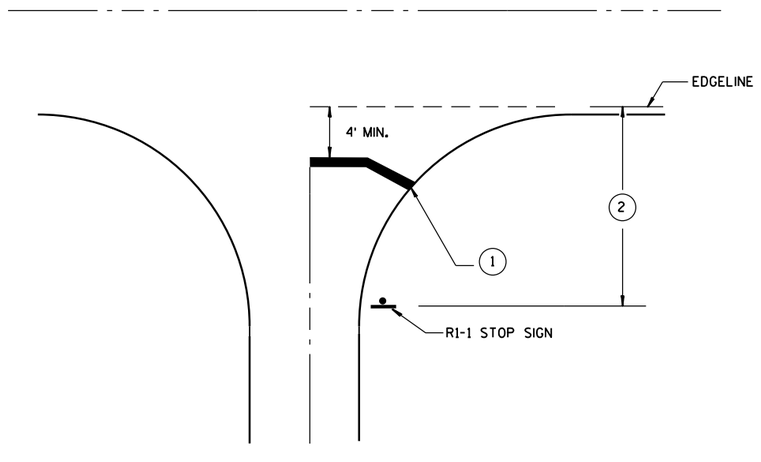
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

6

S.D.D. 15 C 33-1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

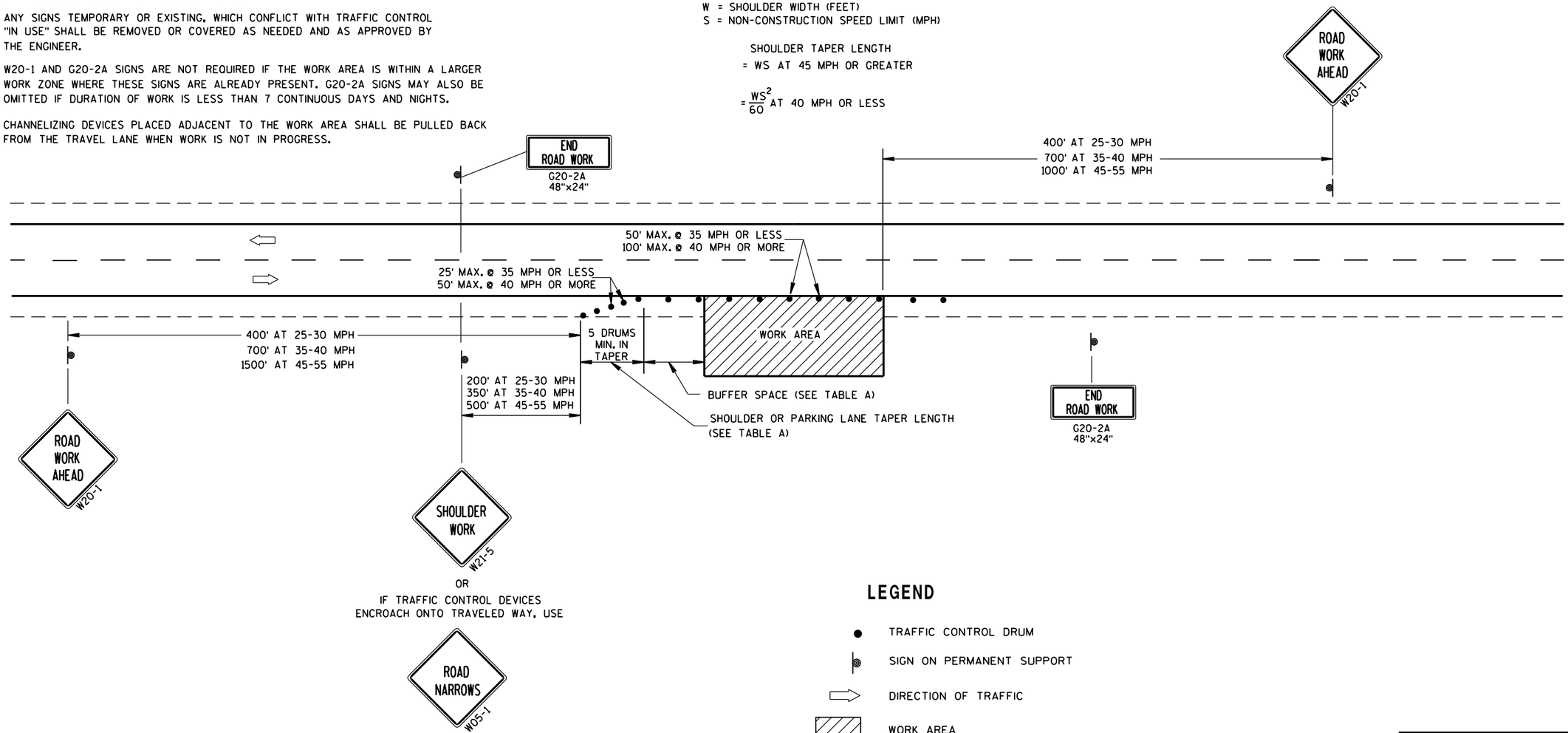
TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= WS AT 45 MPH OR GREATER

$= \frac{WS^2}{60}$ AT 40 MPH OR LESS



LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 DATE

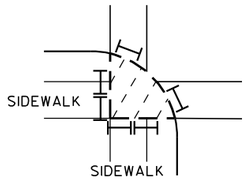
/S/ Travis Feltes
STATE TRAFFIC ENGINEER

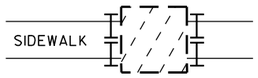
FHWA

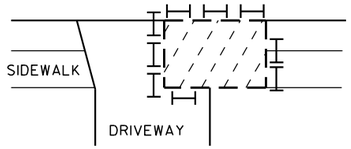
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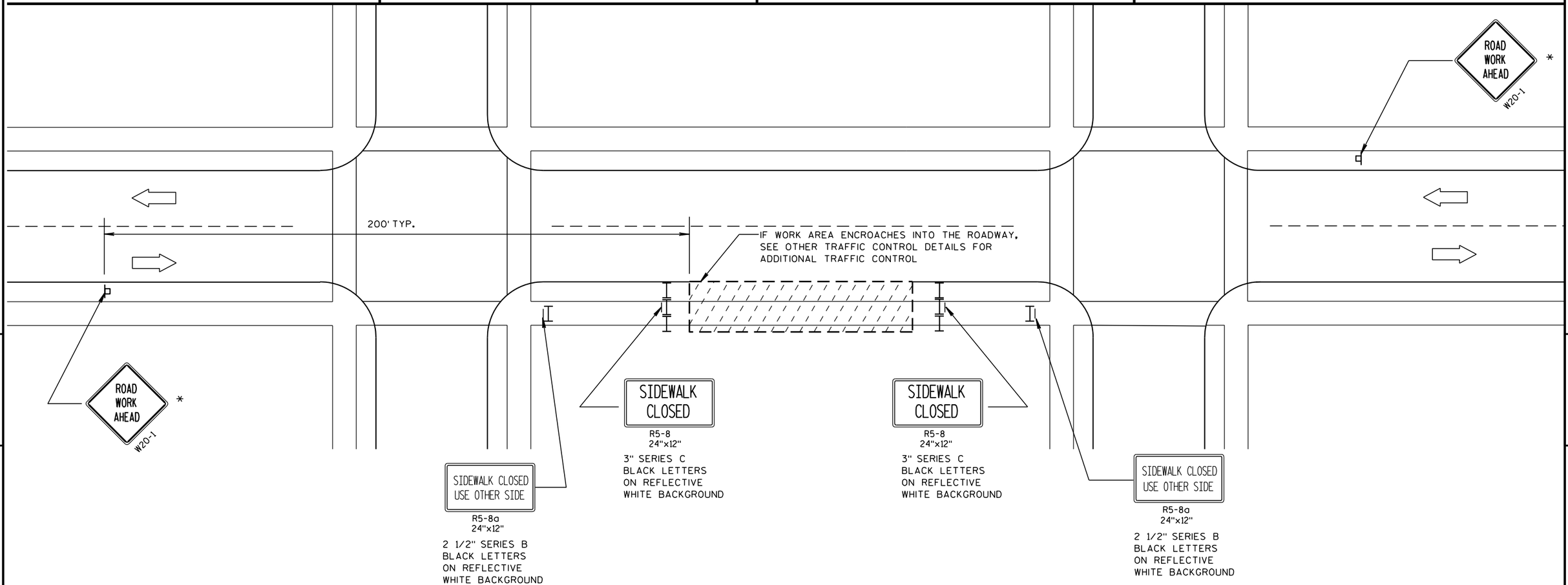
S.D.D. 15 D 28-2

WARNING OF LOCALIZED SIDEWALK WORK AREAS









LEGEND

- POST MOUNTED SIGN
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- WORK AREA
- DIRECTION OF TRAFFIC FLOW

GENERAL NOTES :

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

THE EXACT LOCATION AND PLACEMENT OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

* "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

TRAFFIC CONTROL, SIDEWALK CLOSURE

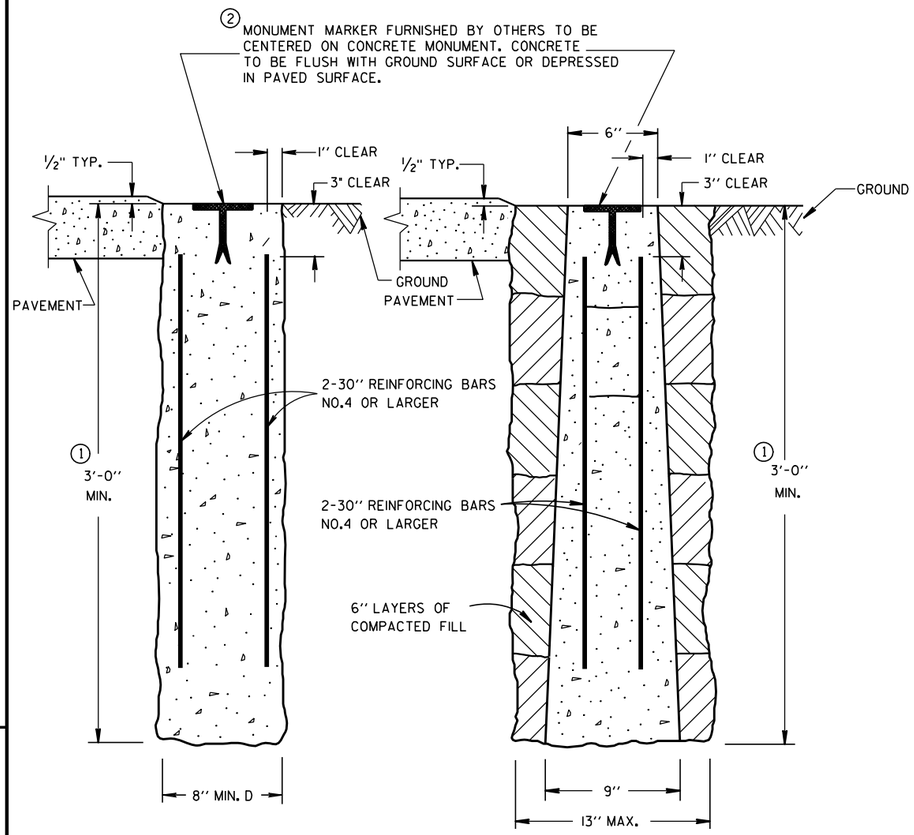
TRAFFIC CONTROL, SIDEWALK CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/2000 DATE
/S/ Chester J. [illegible]
CHIEF SIGNS AND MARK[illegible] ENGINEER
FHWA

6

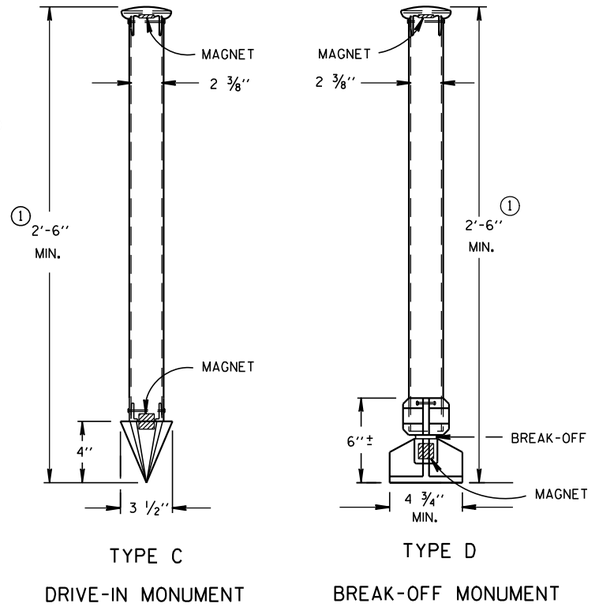
S.D.D. 15 D 30-1



CAST-IN-PLACE PRECAST

CONCRETE MONUMENTS

TYPE A



TYPE C DRIVE-IN MONUMENT

TYPE D BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

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.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

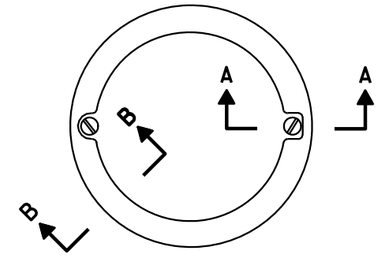
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

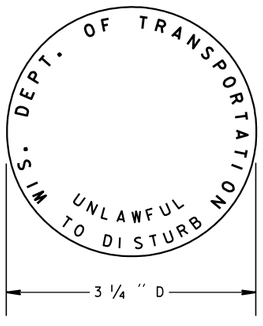
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

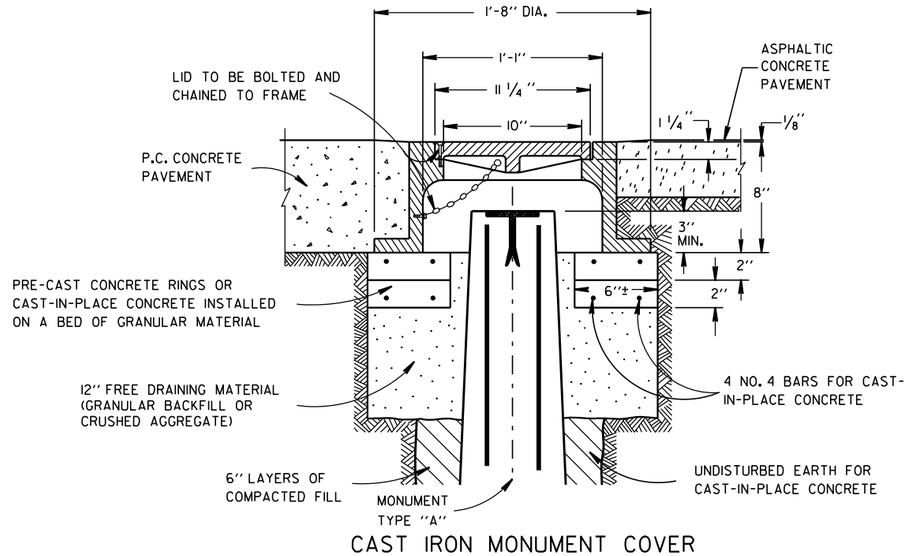
② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW

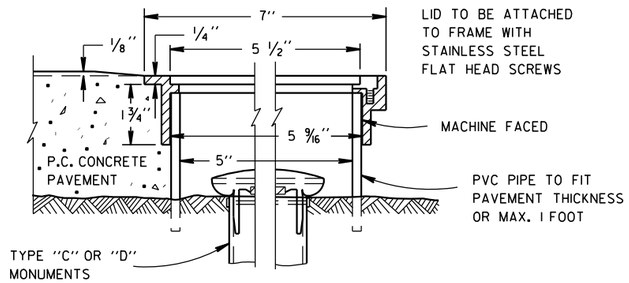


② WIS DOT MONUMENT MARKER LOGO FOR TYPES "A", "C" & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)

(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MOUNMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/22/1999 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 16 A 1-6

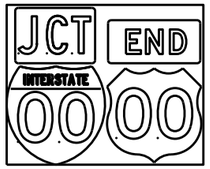
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S.D.D. 16 A 1-6

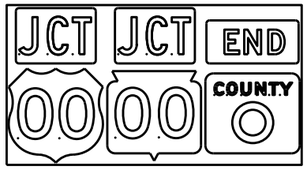
TYPICAL ASSEMBLIES



J1-1



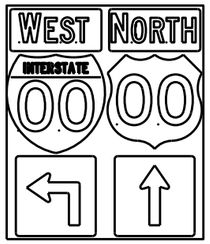
J1-2



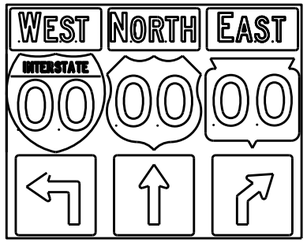
J1-3



J2-1



J2-2

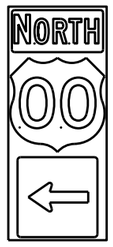


J2-3

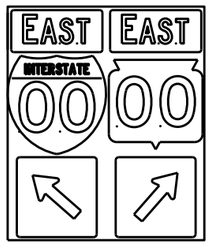


JV

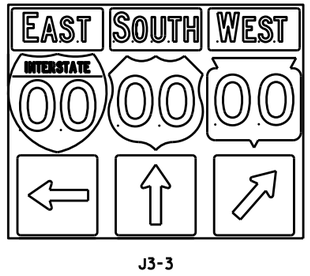
(Typical Vertical J-Assembly
See Note 10 and 11)



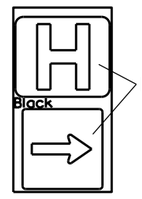
J3-1



J3-2



J3-3

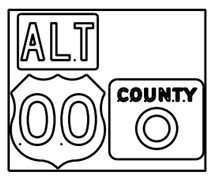


Blue Background

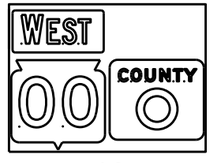
JH-1



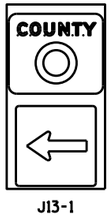
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

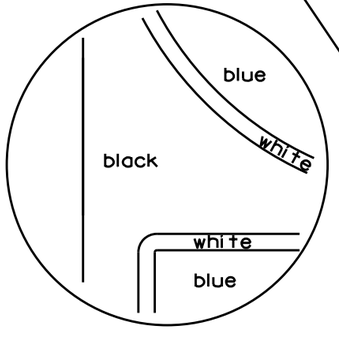


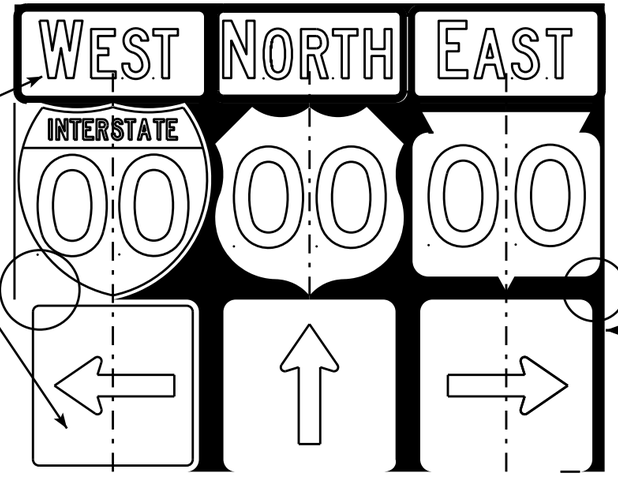
J23-1

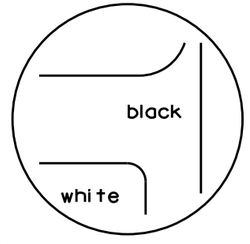


J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

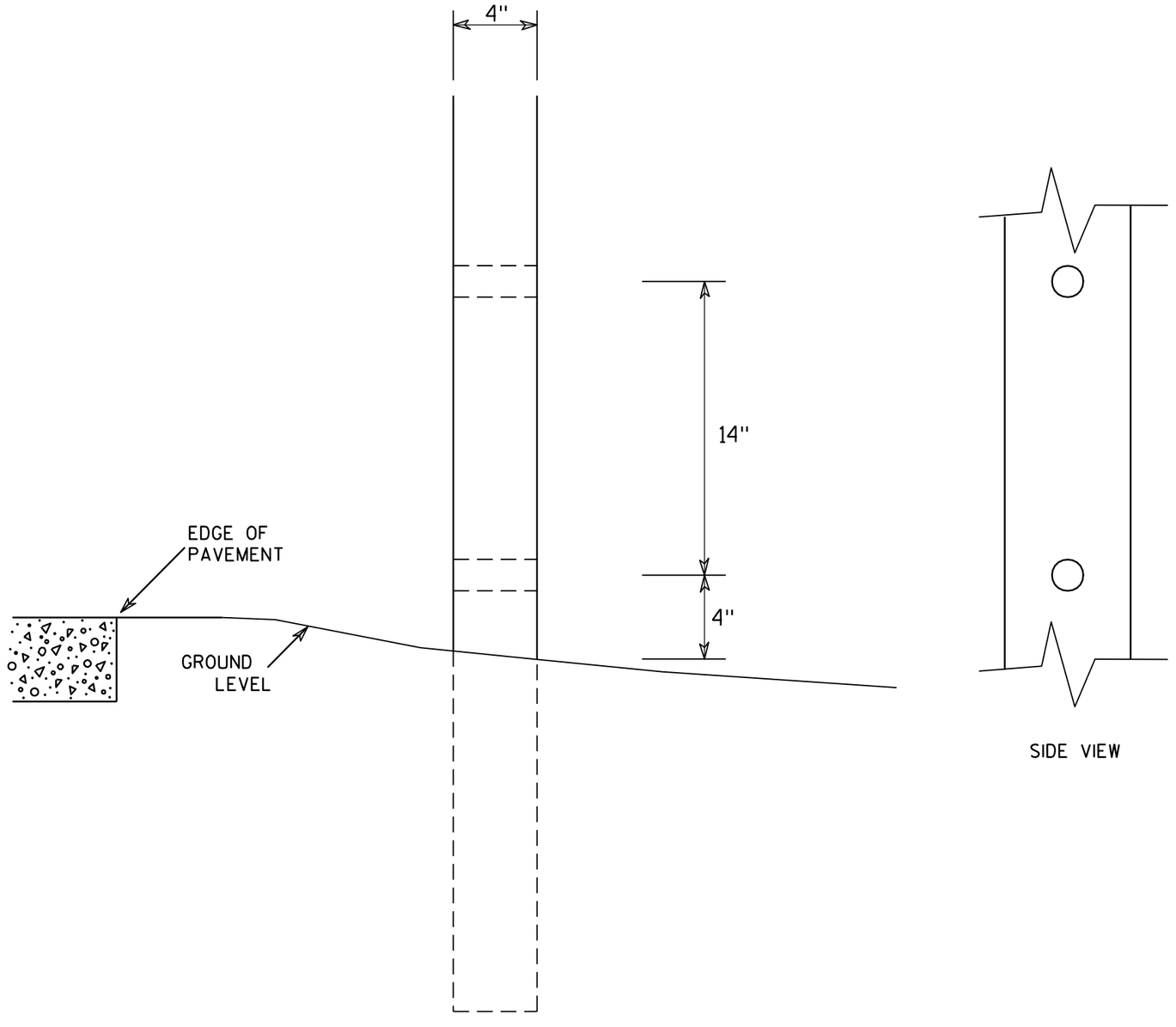
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

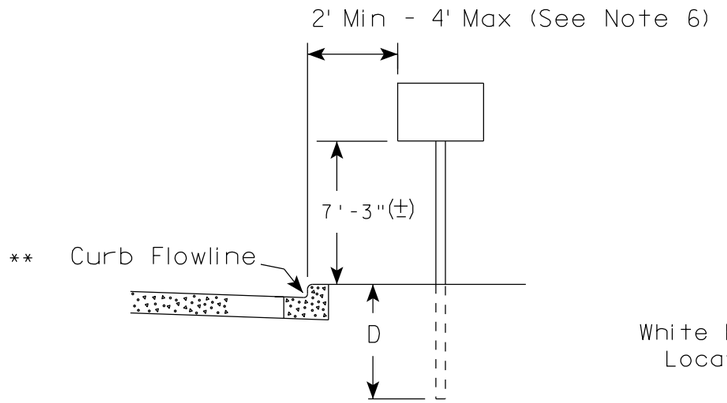
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

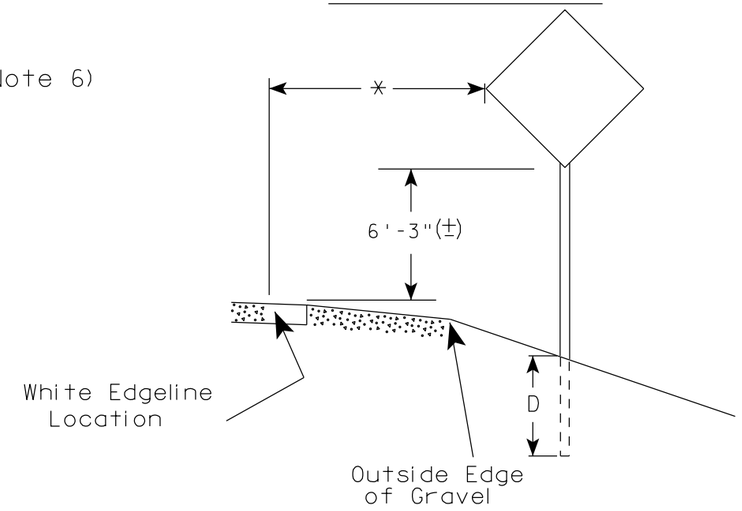
DATE 3/27/97 PLATE NO. A4-11.2

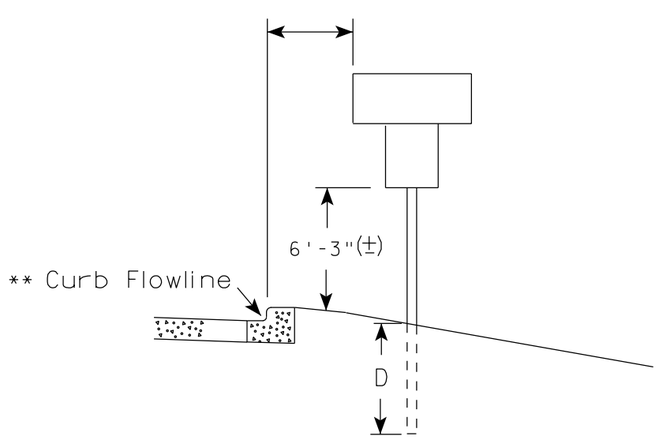
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 159	E

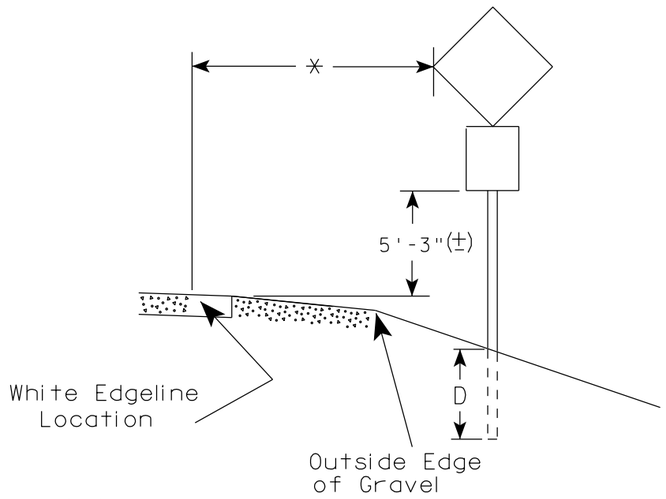
URBAN AREA



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, 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

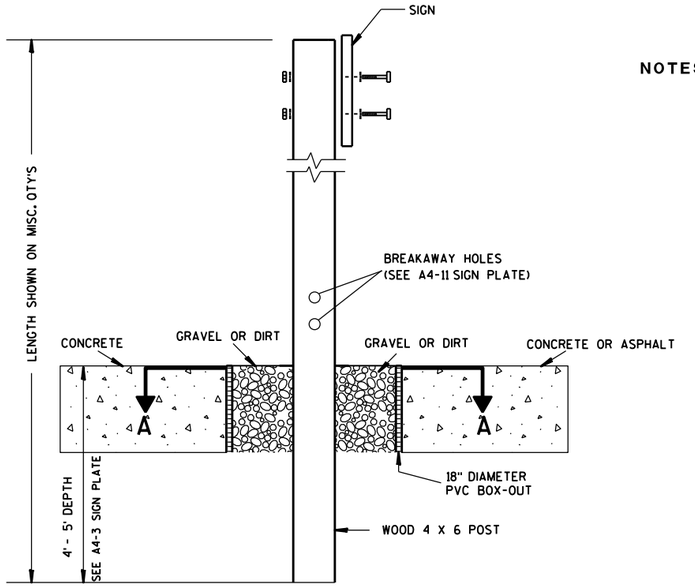
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/13 PLATE NO. A4-3.18

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

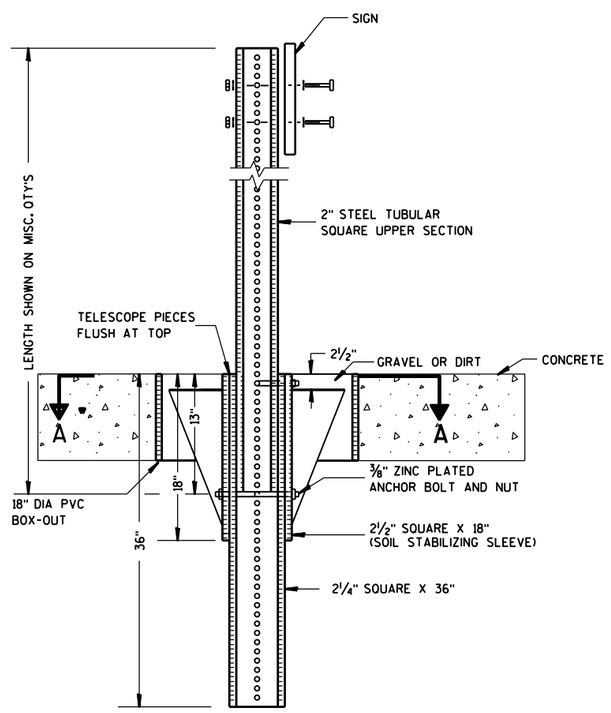
7



ELEVATION VIEW

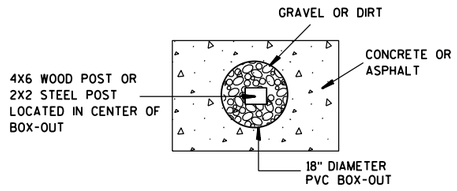
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

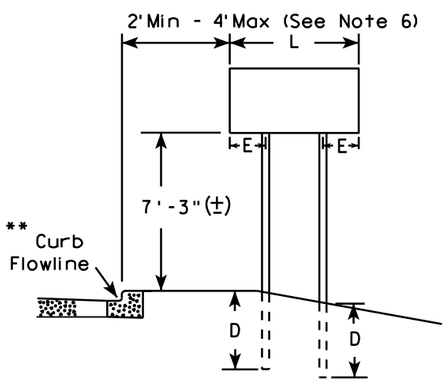
APPROVED Matthew R Rauch
for State Traffic Engineer

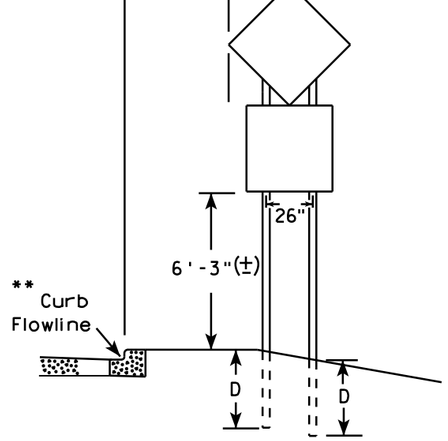
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

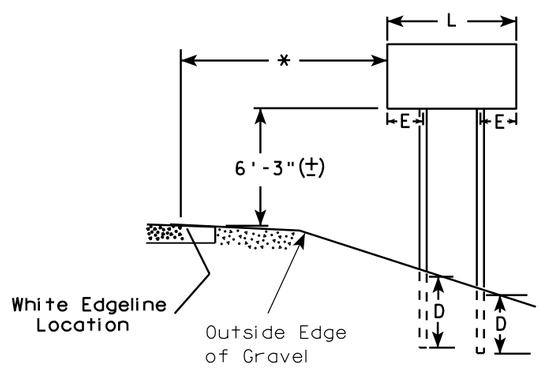
URBAN AREA

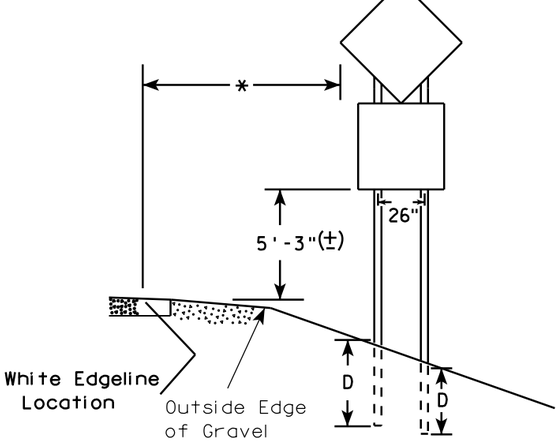




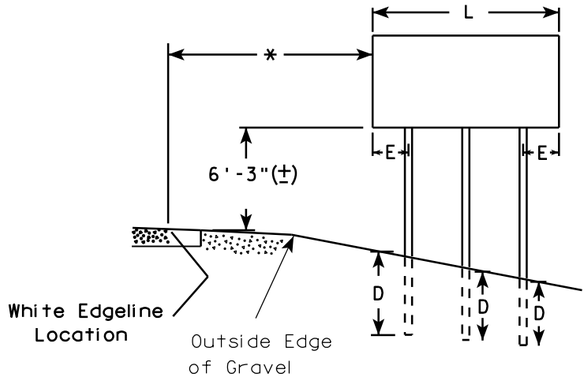
48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)





48" DIAMOND WARNING SIGN



GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding stop signs (R1-1F) 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) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width or 20 S.F. or less in area.

***

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

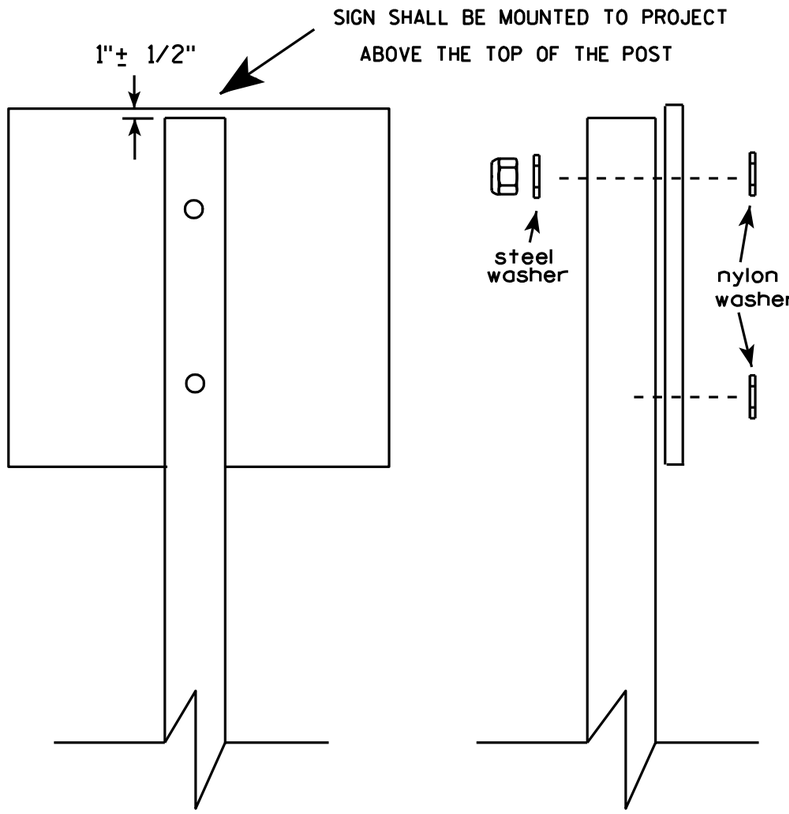
WISCONSIN DEPT OF TRANSPORTATION

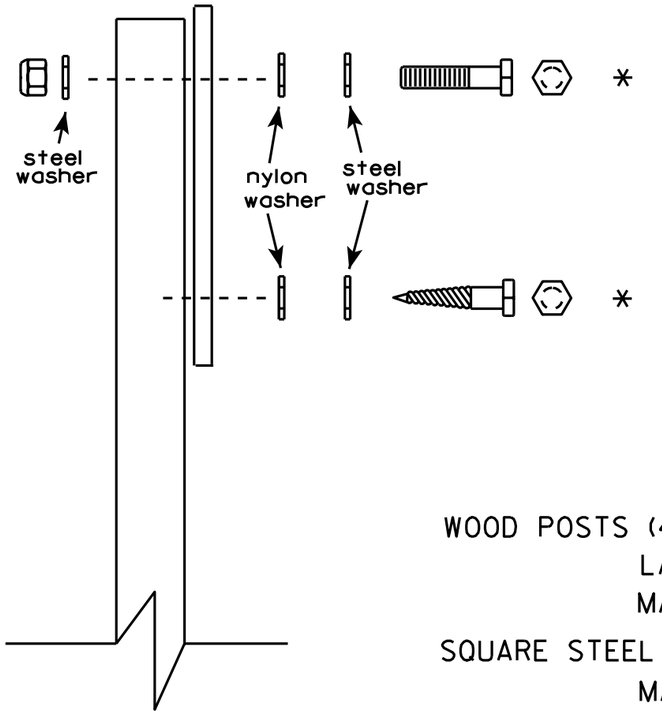
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/13 PLATE NO. A4-4 12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 30-SEP-2013 13:27 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000 WISDOT/CADDS SHEET 42





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

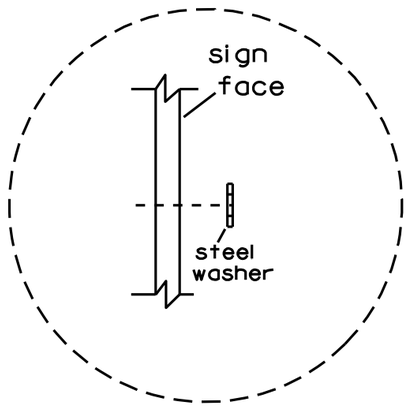
a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts

SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/10 PLATE NO. A4-8.7

7

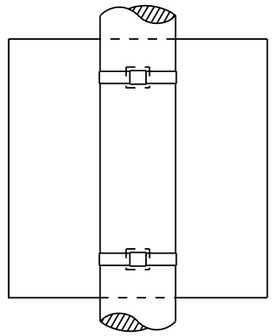
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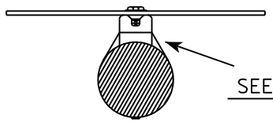
PROJECT NO:

SHEET NO: 163 E

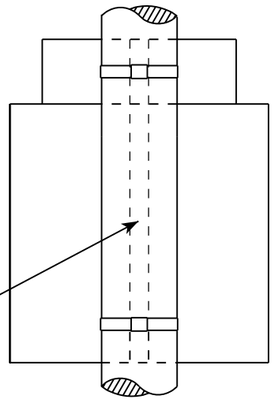
BANDING

SINGLE SIGN

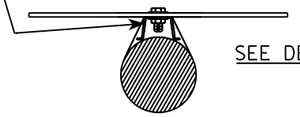


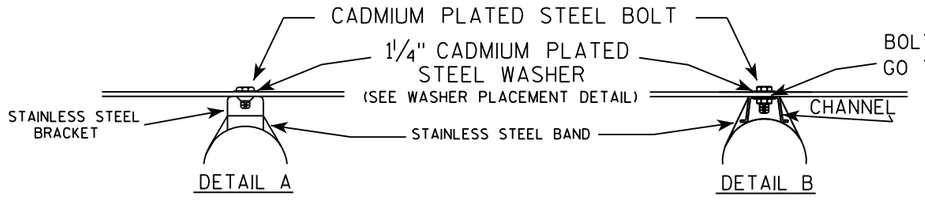


"J" ASSEMBLY

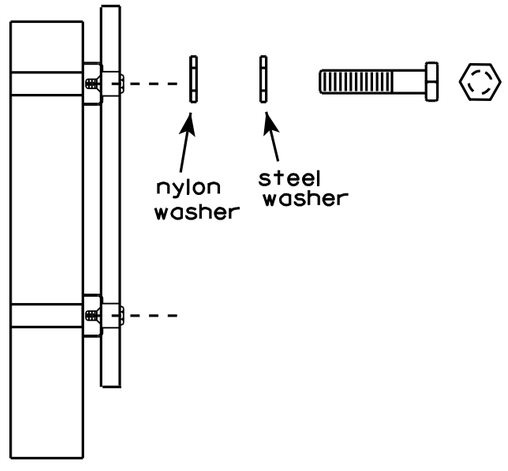


CHANNEL
SEE TYPICAL PANEL INSTALLATION SHEET





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.

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

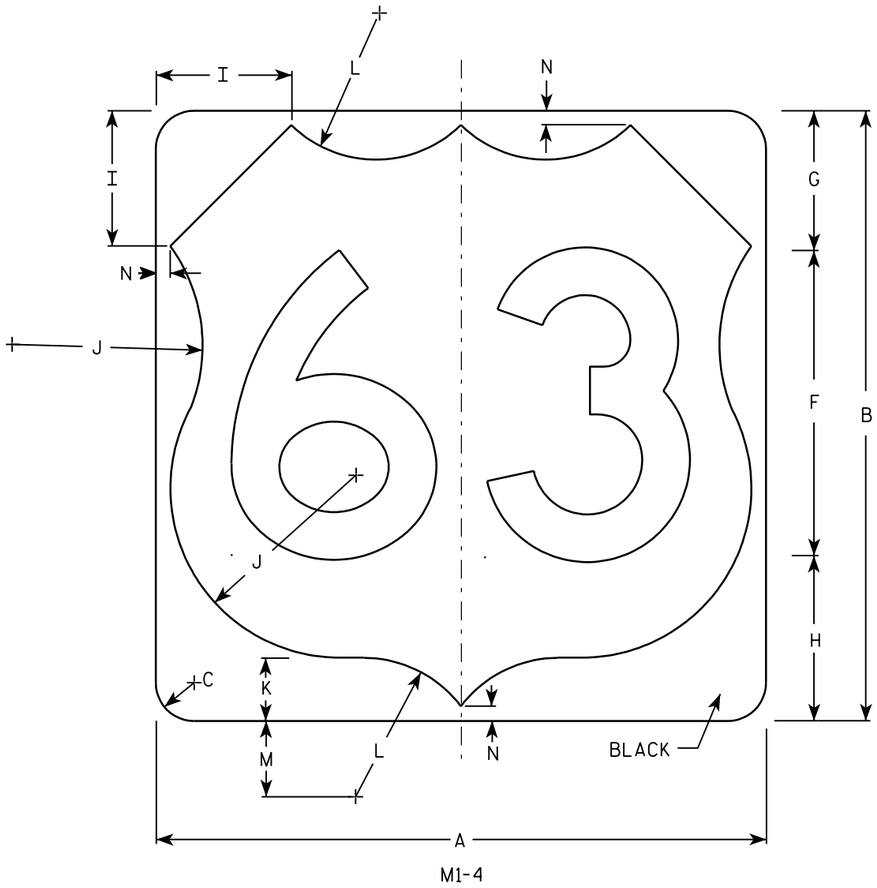
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

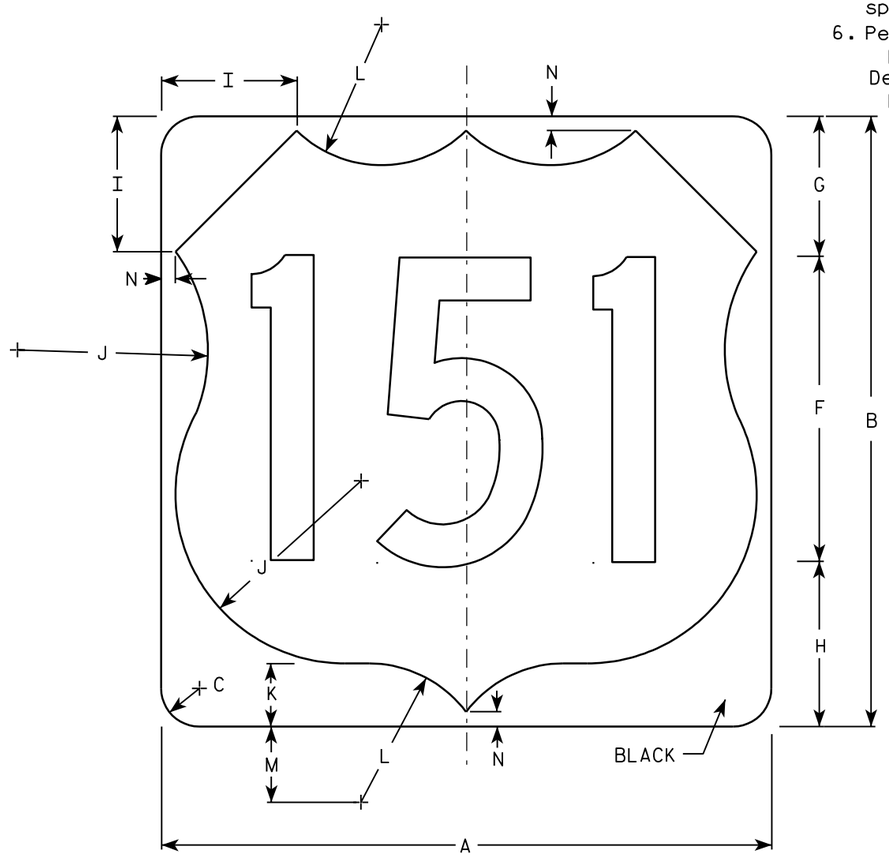
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 164	E

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective



M1-4



M1-4

7

7

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

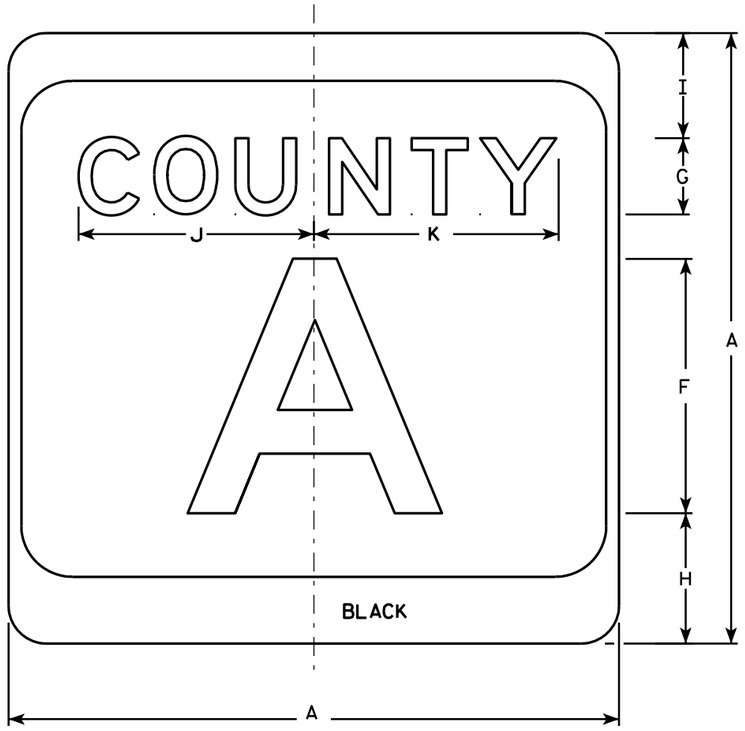
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

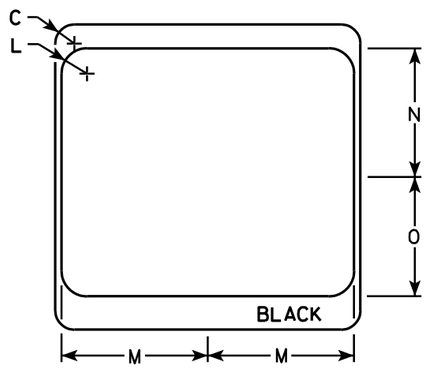
APPROVED Matthew R Rauch
for State Traffic Engineer

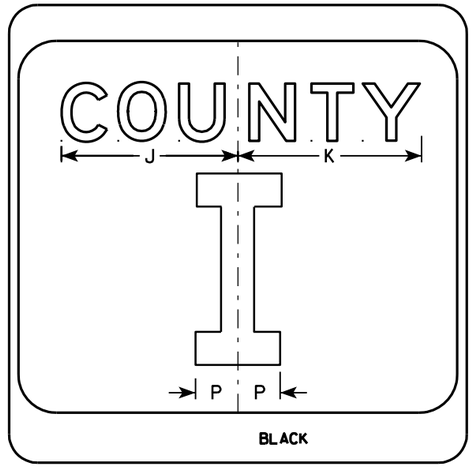
DATE 08/25/05 PLATE NO. M1-4.9

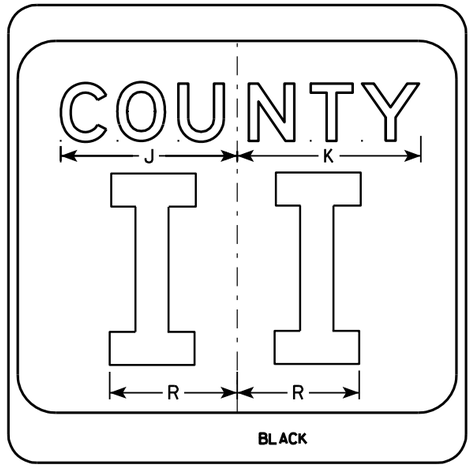
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 165	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

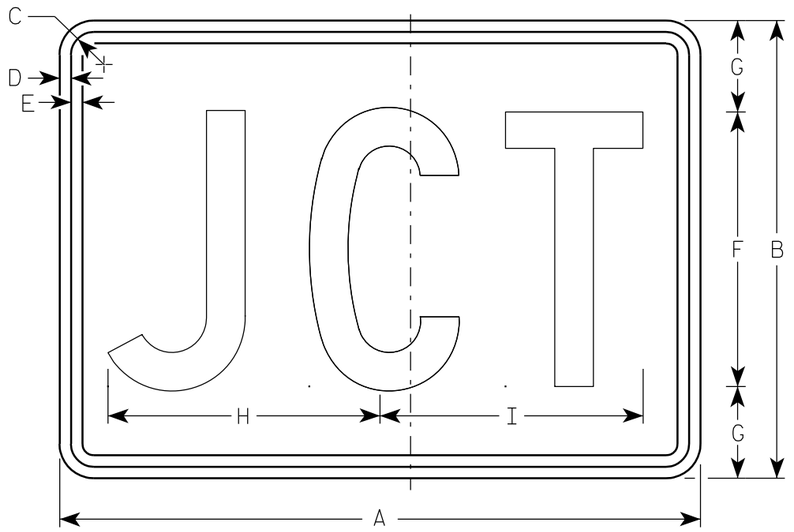
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

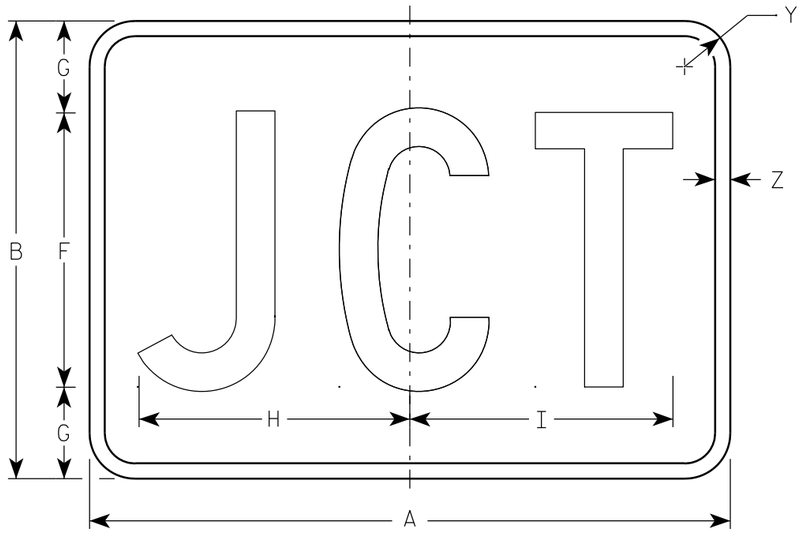
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 166 | E



M2-1
MK2-1
MM2-1
MR2-1



MB2-1
MG2-1
MN2-1

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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 - Type H Reflective
   (Detour or temporary Signs - Reflective)
   Message - Black
   MB2-1 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   MG2-1 Background - Green
   Message - White - Type H Reflective
   MK2-1 Background - Green
   Message - White - Type H Reflective
   MM2-1 Background - White - Type H Reflective
   Message - Green
   MN2-1 Background - Brown
   Message - White - Type H Reflective
   MR2-1 Background - Brown
   Message - Yellow - Type H Reflective

Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 375 mm
3	750 mm X 525 mm
4	750 mm X 525 mm
5	750 mm X 525 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20	0.20
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	0.20
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	0.20
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	0.20

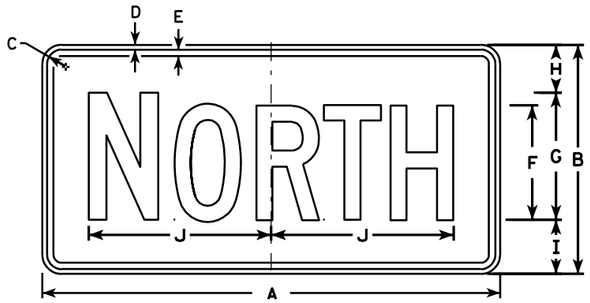
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

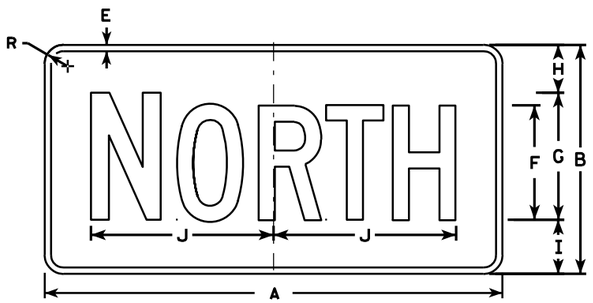
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M2-1.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 167	E



M3-1
MK3-1
MO3-1



MB3-1
MG3-1
MM3-1
MN3-1



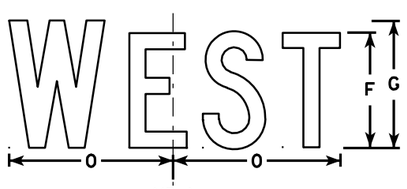
M3-2
MK3-2
MO3-2



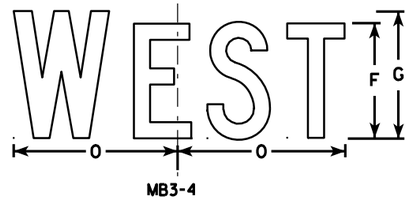
MB3-2
MG3-2
MM3-2
MN3-2

M3-3
MK3-3
MO3-3

MB3-3
MG3-3
MM3-3
MN3-3



M3-4
MK3-4
MO3-4



MB3-4
MG3-4
MM3-4
MN3-4

NOTES

1. All Signs Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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 - Type H Reflective (Detour or temporary signs - Reflective) Message - Black
   MB3-1 thru MB3-4 Background - Blue Message - White - Type H Reflective (Detour or temporary signs - Reflective)
   MG3-1 thru MG3-4 Background - Green Message - White - Type H Reflective
   MK3-1 thru MK3-4 Background - Green Message - White - Type H Reflective
   MM3-1 thru MM3-4 Background - White - Type H Reflective Message - Green
   MN3-1 thru MN3-4 Background - Brown Message - White - Type H Reflective
   M03-1 thru M03-4 Background - Orange - Reflective Message - Black
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

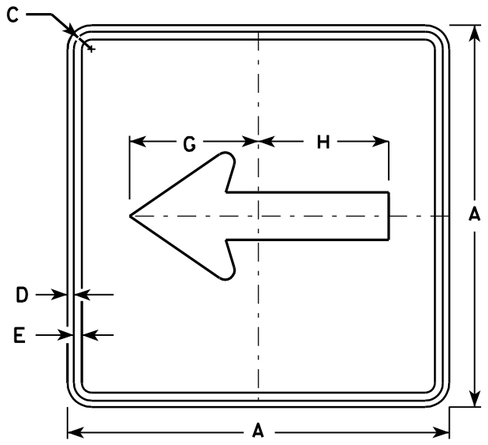
STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

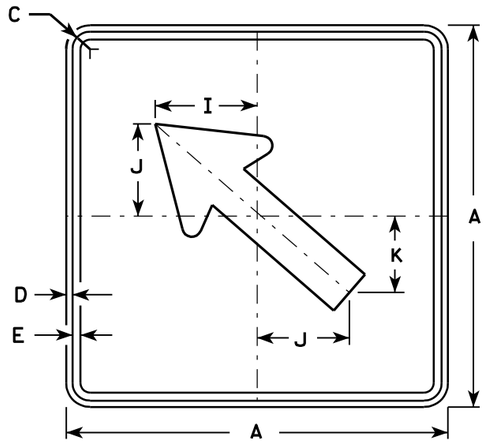
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/10/10 PLATE NO. M3-1.12

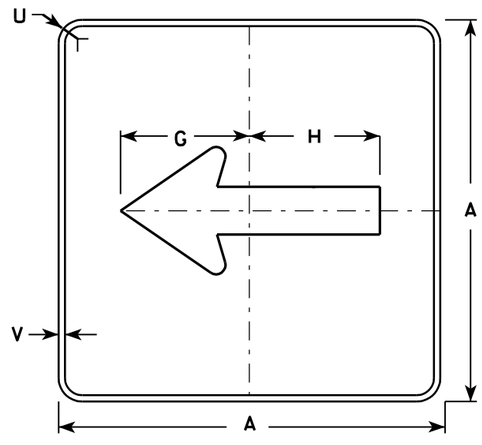
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 168	E



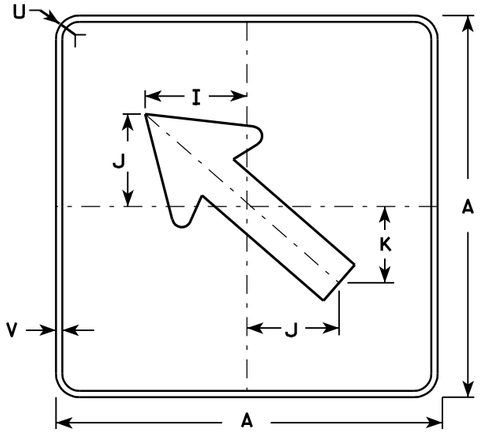
M6-1
MK6-1
MM6-1
MO6-1
MP6-1
MR6-1



M6-2
MK6-2
MM6-2
MO6-2
MP6-2
MR6-2



MB6-1
MG6-1
MN6-1



MB6-2
MG6-2
MN6-2

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White - Type H Reflective
   Message - Black

   MB6-1 and MB6-2 Background - Blue
   Message - White - Type H Reflective

   MG6-1 and MG6-2 Background - Green
   Message - White - Type H Reflective

   MK6-1 and MK6-2 Background - Green
   Message - White - Type H Reflective

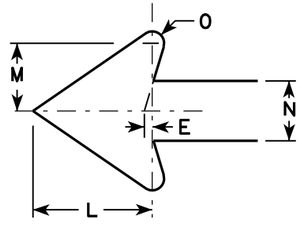
   MM6-1 and MM6-2 Background - White - Type H Reflective
   Message - Green

   MN6-1 and MN6-2 Background - Brown
   Message - White - Type H Reflective

   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black

   MP6-1 and MP6-2 Background - White - Type H Reflective
   Message - Blue

   MR6-1 and MR6-2 Background - Brown
   Message - Yellow - Type H 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	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

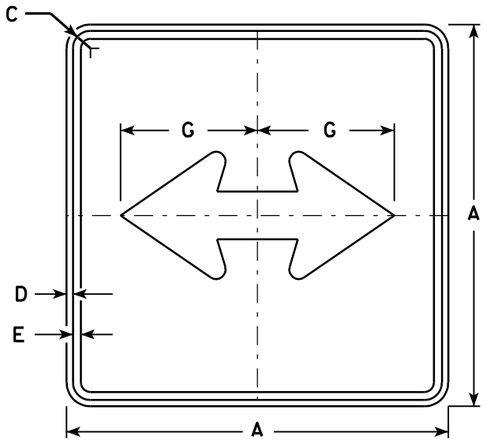
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

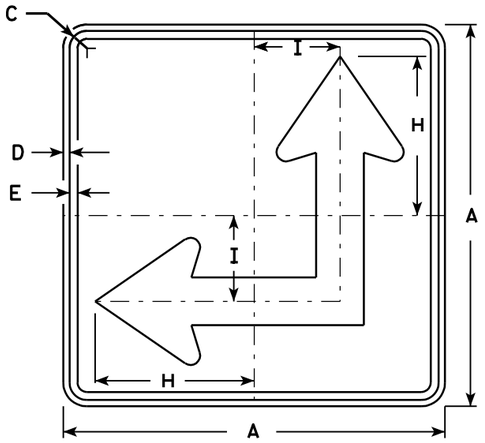
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/29/13 PLATE NO. M6-1.13

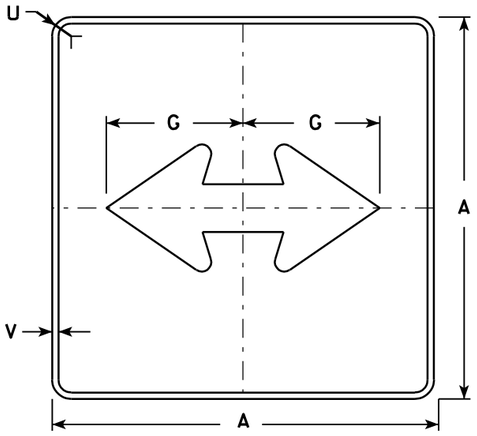
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 169 | E



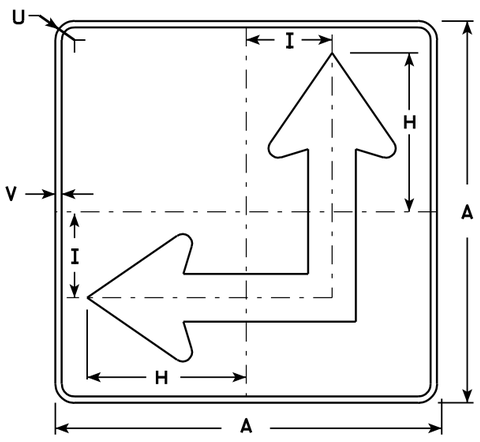
M6-4
MK6-4
MM6-4
MO6-4
MP6-4
MR6-4



M6-6
MK6-6
MM6-6
MO6-6
MP6-6
MR6-6



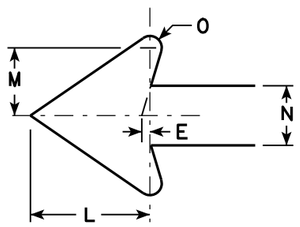
MB6-4
MG6-4
MN6-4



MB6-6
MG6-6
MN6-6

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White - Type H Reflective
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White - Type H Reflective
   MG6-4 and MG6-6 Background - Green
   Message - White - Type H Reflective
   MK6-4 and MK6-6 Background - Green
   Message - White - Type H Reflective
   MM6-4 and MM6-6 Background - White - Type H Reflective
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White - Type H Reflective
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White - Type H Reflective
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow - Type H Reflective
5. M6-6R same as M6-6L except arrow points ahead and right.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

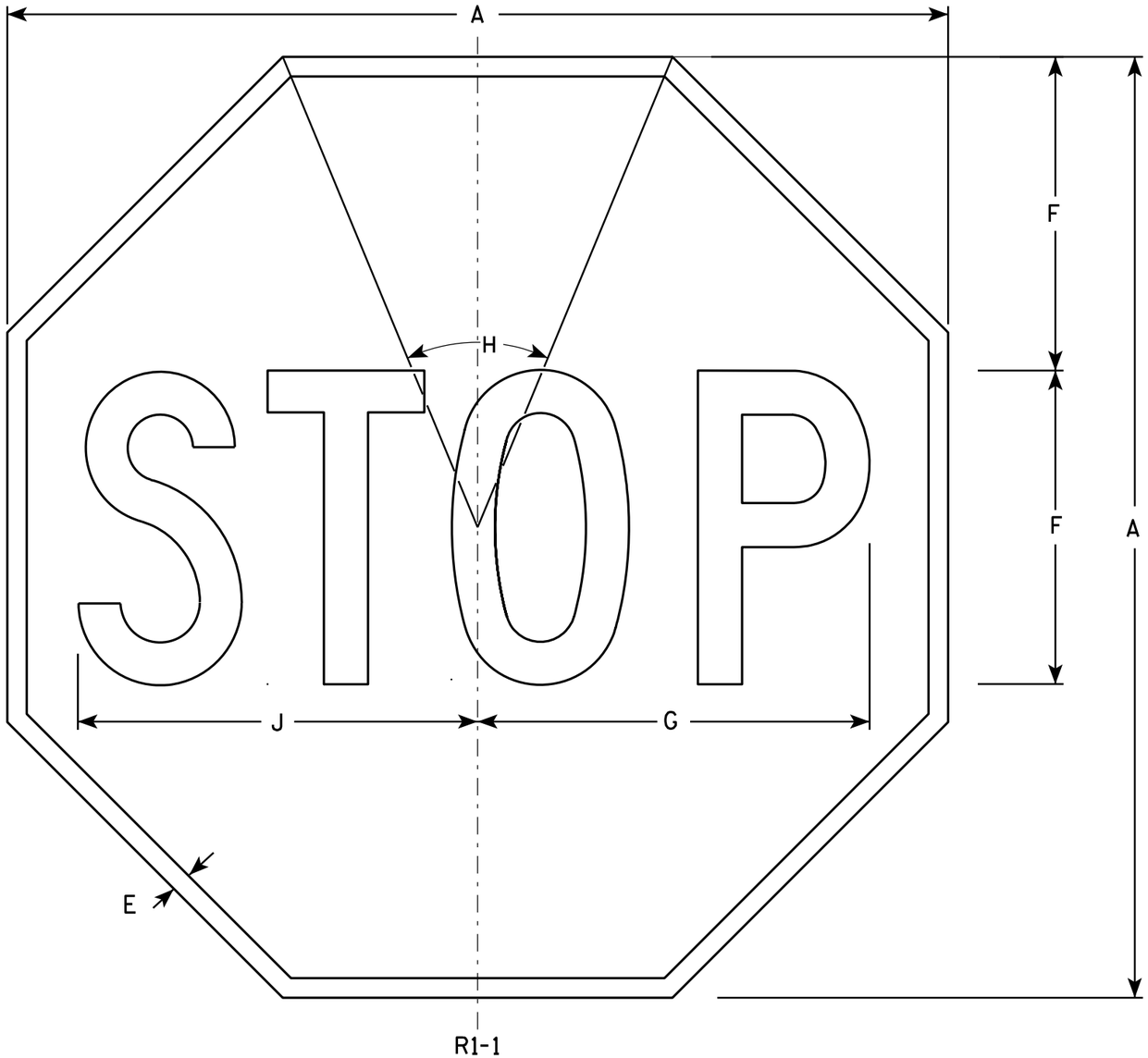
STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 7/29/13 PLATE NO. M6-4.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 170 | E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

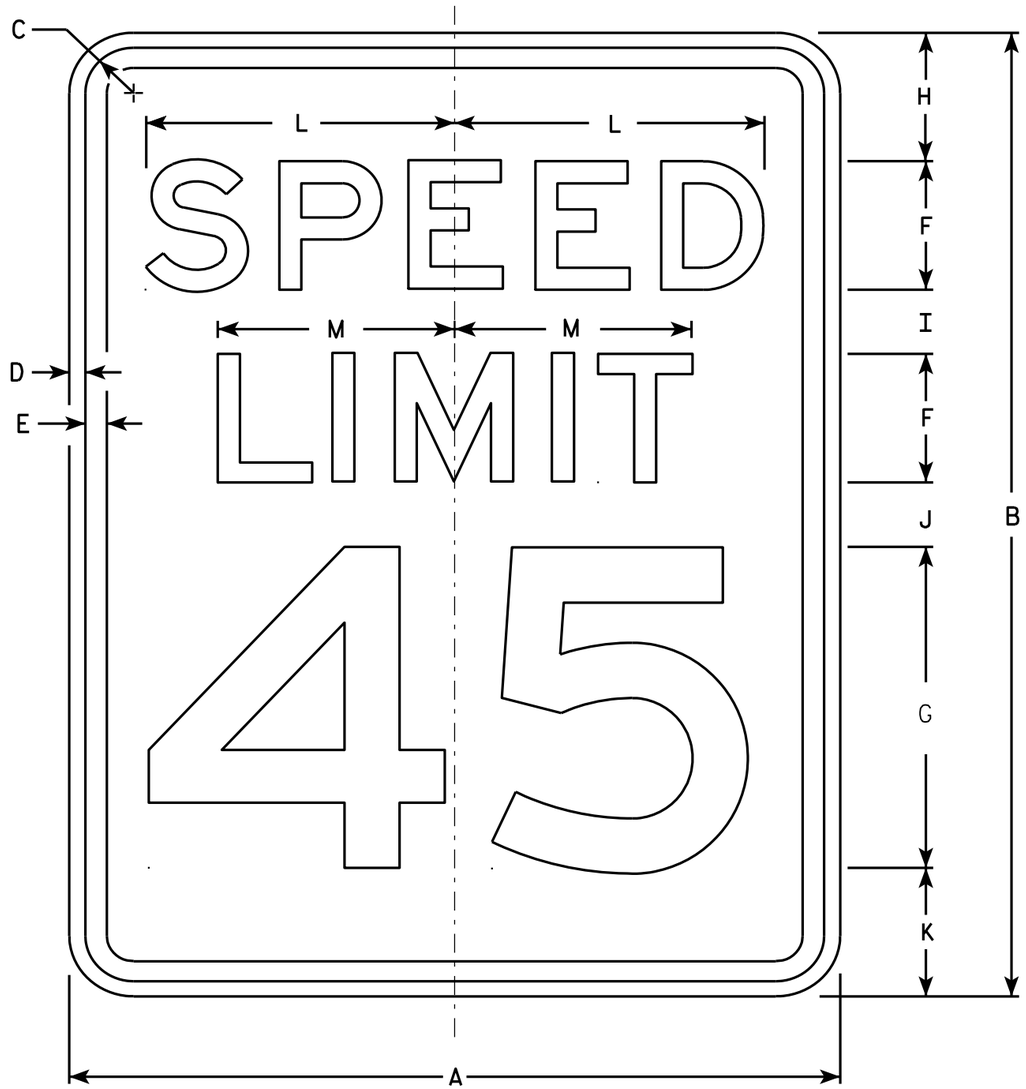
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 171	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

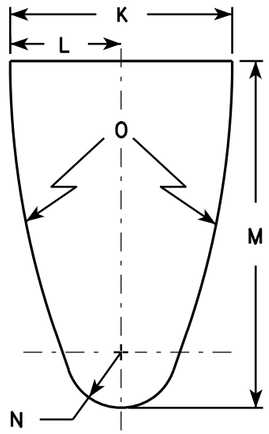
WISCONSIN DEPT OF TRANSPORTATION

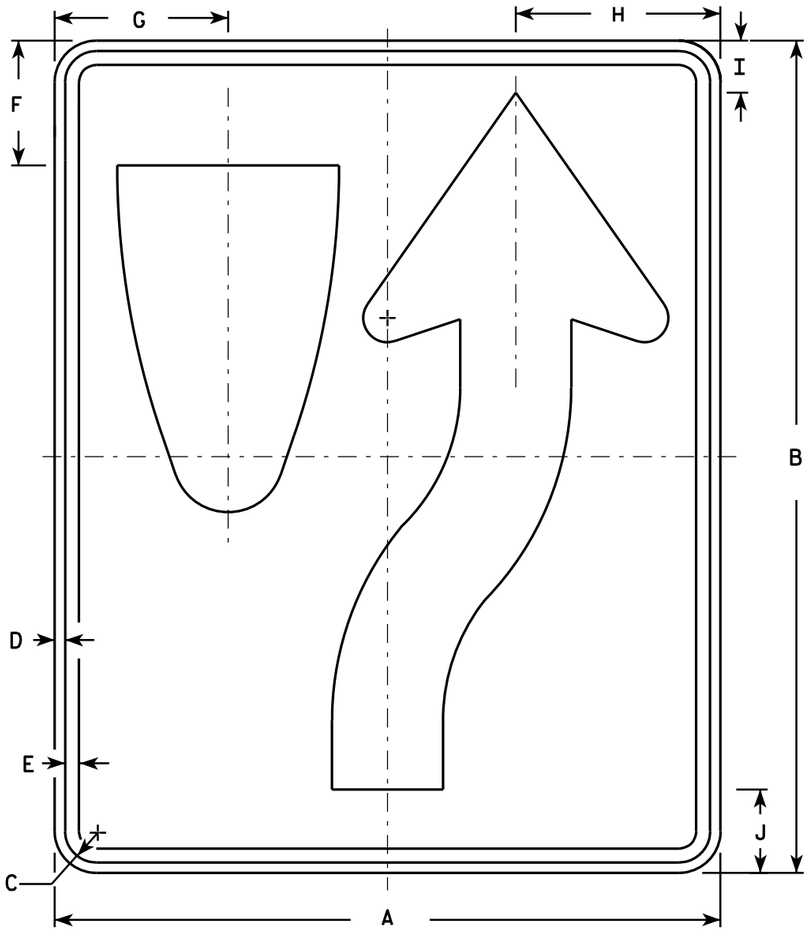
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 172 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000 WISDOT/CADDS SHEET 42

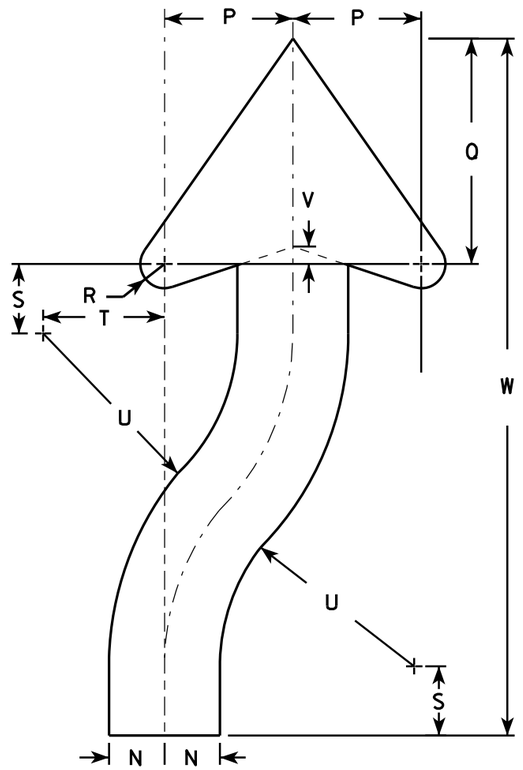




R4-7

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

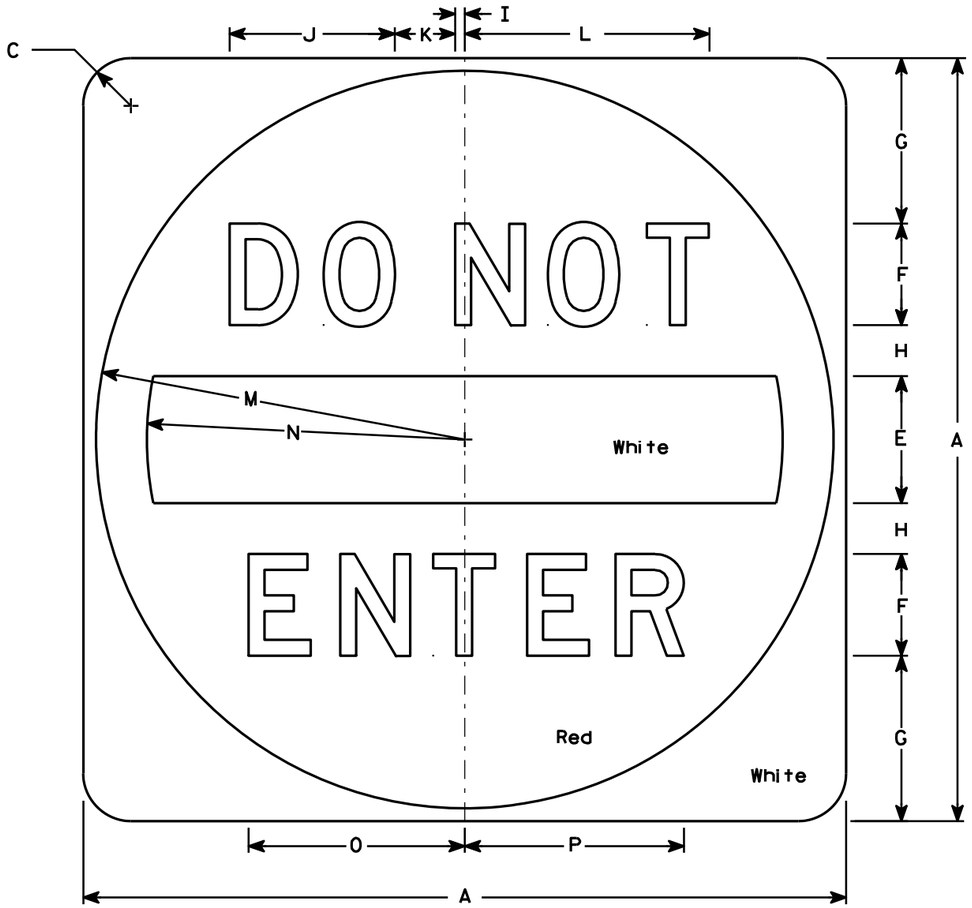
STANDARD SIGN
R4-7 & R4-8

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: 173	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

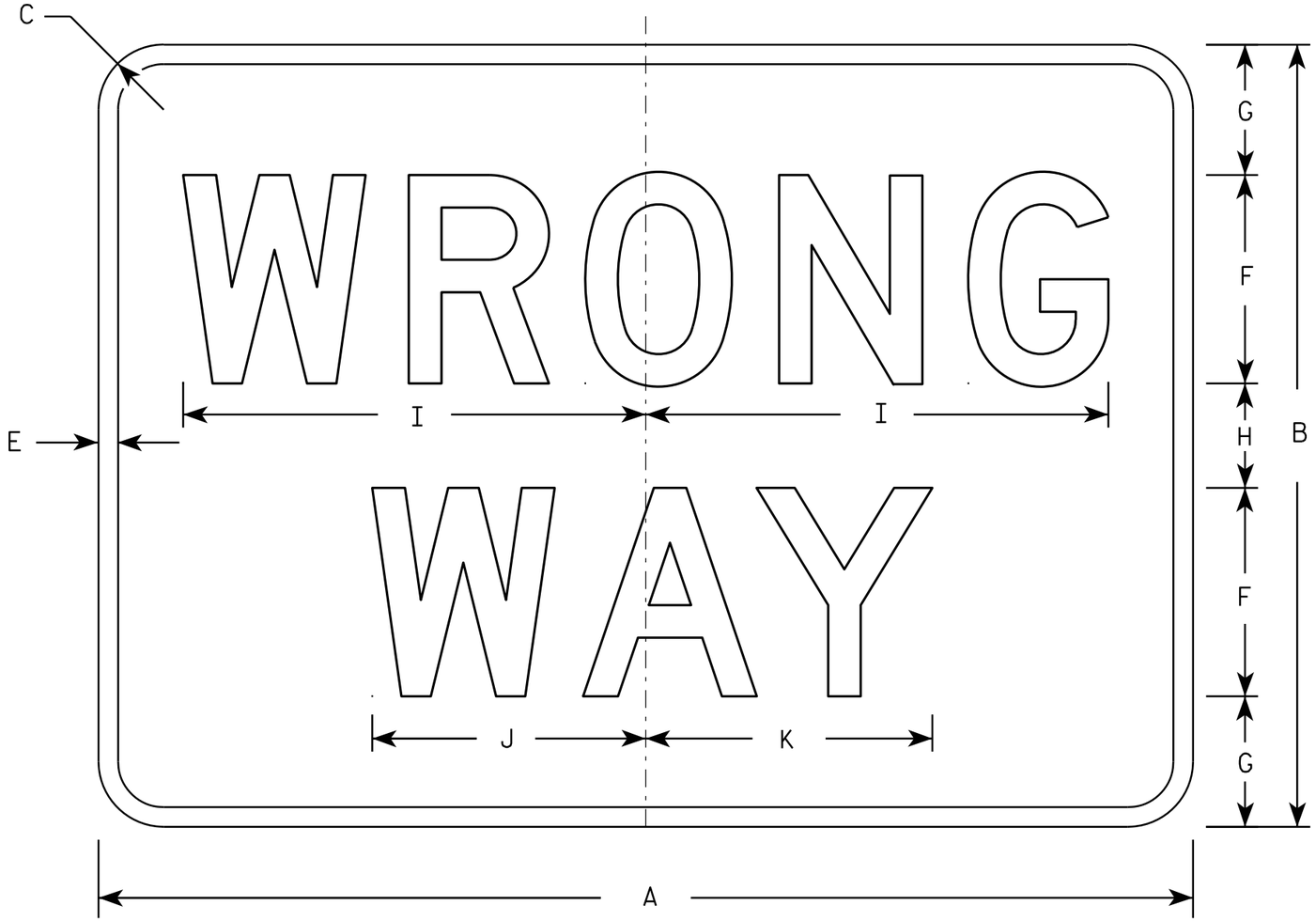
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 174 | 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

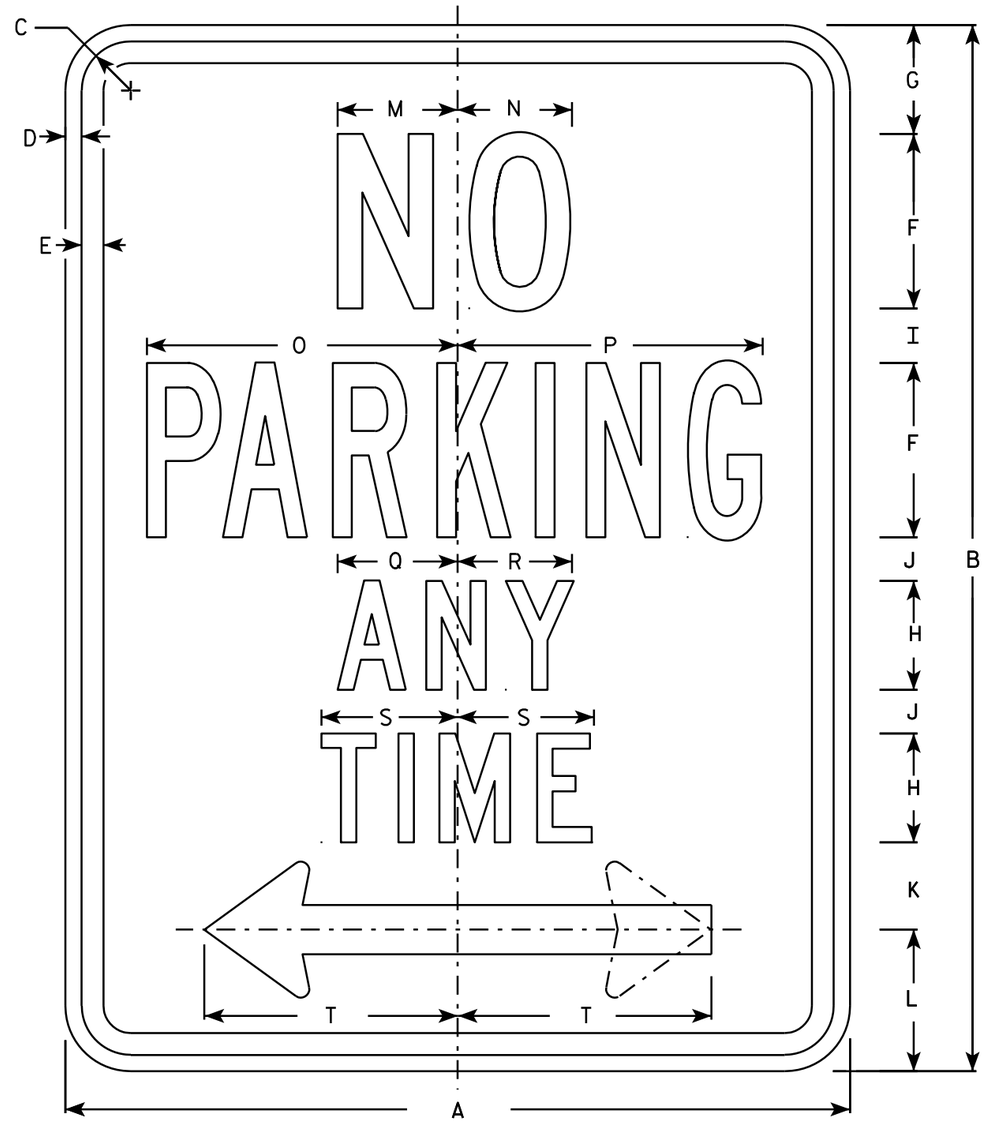
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

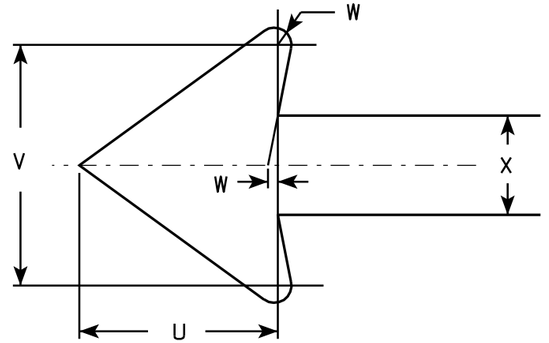
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 175 | E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 176	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

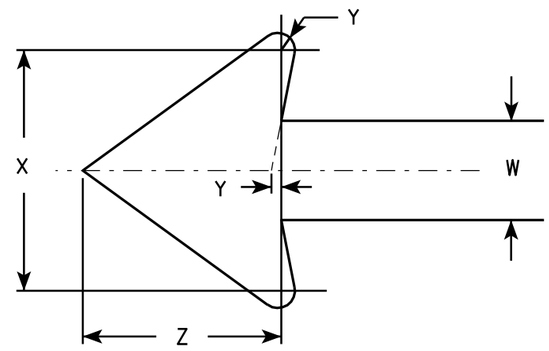
WISDOT/CADDS SHEET 42



R7-51

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 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. R7-51D (double arrow)
   R7-51R (right arrow)
   R7-51L (left arrow)
6. Lines 1, 3 and 4 are Series C.
   Line 2 is Series B.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	4 7/8	5/8	1 3/4	2 1/2	4 3/8	3 7/8	3/4	1 3/4	1/8	1 1/2	1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	5 3/4	1 1/8	1 1/2	3 1/8	5 1/2	5 7/8	1 1/8	2 5/8	1/4	2 1/4	3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
4																											
5																											

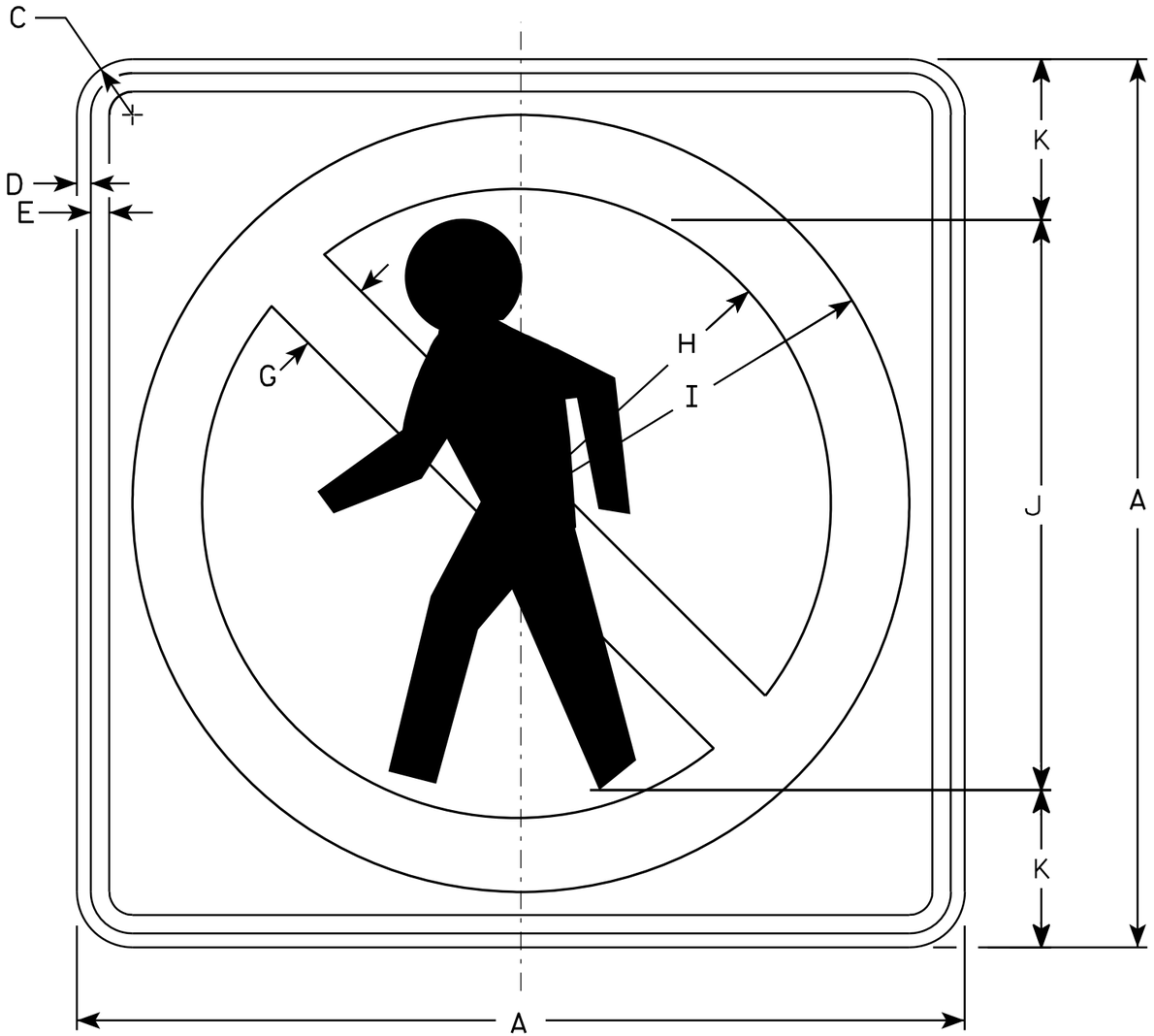
STANDARD SIGN
R7-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-51.6

PROJECT NO:	HWY:	COUNTY:			SHEET NO: 177	E



R9-3A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Pedistrian are non-reflective black. Circle with diagonal bar is reflective red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	18		1 1/8	3/8	3/8		1 1/2	6 1/4	7 7/8	12	3																2.25
2M	18		1 1/8	3/8	3/8		1 1/2	6 1/4	7 7/8	12	3																2.25
3																											
4	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	15	4																4.00
5																											

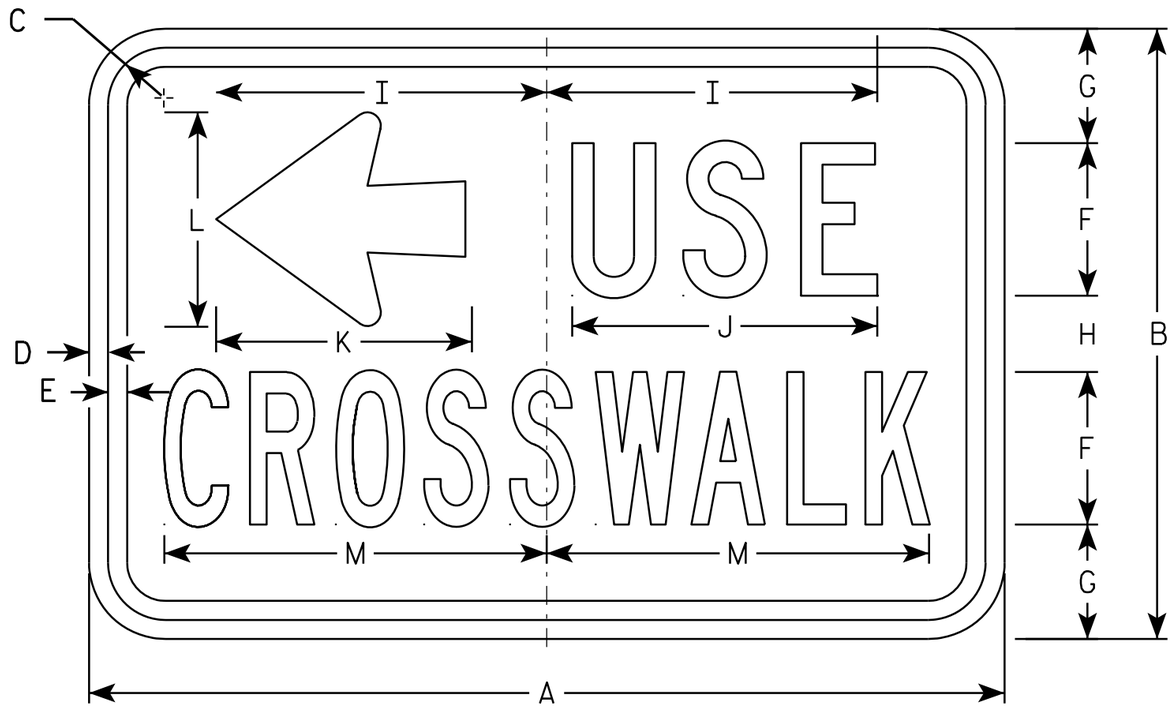
STANDARD SIGN
R9-3A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/4/10 PLATE NO. R9-3A.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 178 | E



R9-3BL

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 Line 1, Series B Line 2
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	
2	450 mm X 300 mm
3	
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	18	12	1⅛	⅜	⅜	3	2 ¼	1 ½	6 ½	6	5	4 ¼	7 ½														1.5	0.14
3																												
4																												
5																												

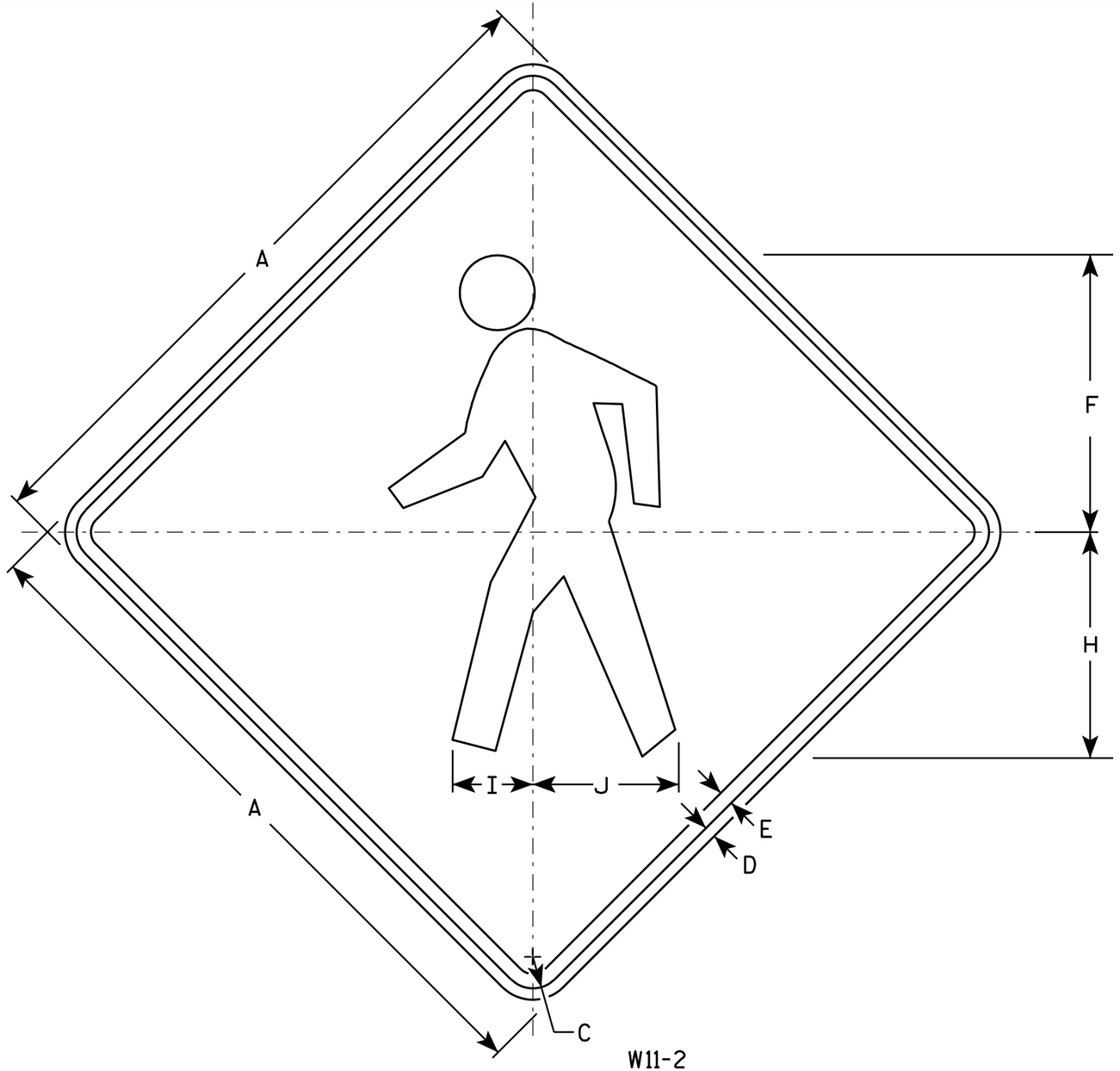
STANDARD SIGN
R9-3BL

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/05/09 PLATE NO. R9-3BL.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 179 | E



W11-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

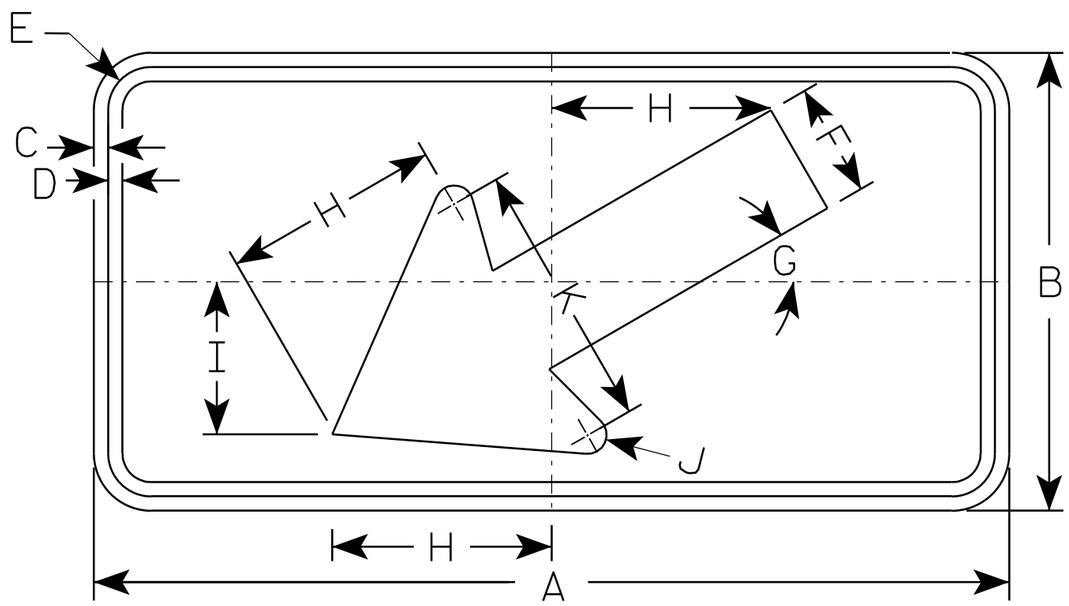
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W11-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 180	E



W16-7L

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W16-7R is the same as W16-L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4																											8
5																											8

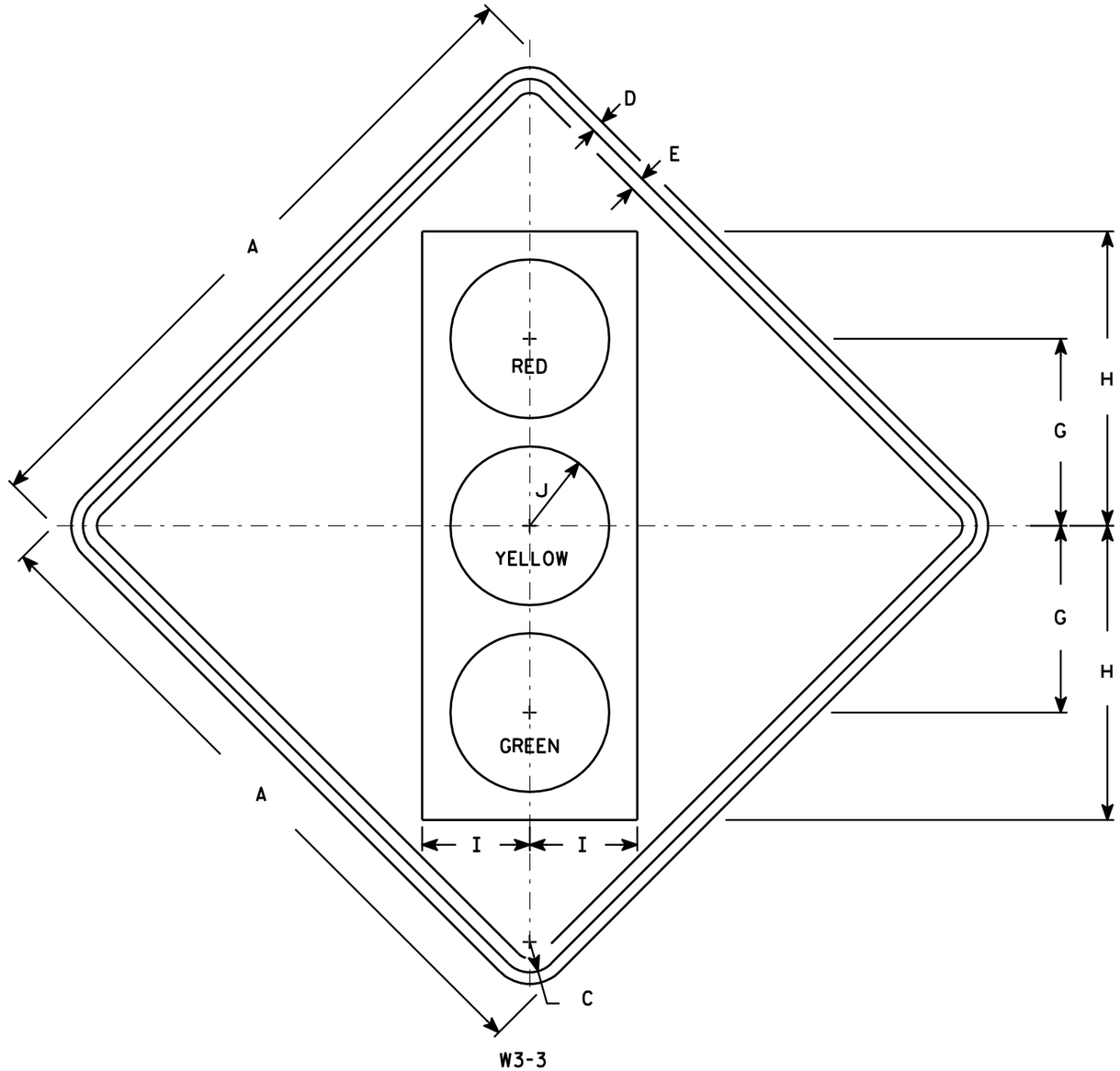
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. W16-7.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 181	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 182 | E

SOUTH BOULEVARD - TEMP WIDENING

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
102+15.00		8	0	0	0	0	0	0	0	0
102+50.00	35	13	0	0	14	0	0	14	0	14
103+00.00	50	6	0	2	18	0	2	32	2	29
103+50.00	50	9	0	0	13	0	2	45	4	40
104+00.00	50	5	0	15	13	0	14	57	21	36
104+50.00	50	6	0	15	10	0	28	68	56	12
105+00.00	50	6	0	18	10	0	31	78	94	-16
105+50.00	50	6	0	2	11	0	19	89	118	-29
106+00.00	50	9	0	0	14	0	2	103	120	-17
106+50.00	50	15	0	0	22	0	0	125	121	5
107+00.00	50	5	0	0	19	0	0	144	121	23
107+50.00	50	16	0	0	20	0	0	164	121	43
108+00.00	50	7	0	12	22	0	11	186	135	51
108+50.00	50	4	0	11	10	0	22	196	162	34
109+00.00	50	12	0	0	14	0	11	210	175	35
109+50.00	50	13	0	0	23	0	0	233	175	58
110+00.00	50	15	0	0	26	0	0	259	175	84
110+50.00	50	14	0	0	26	0	0	285	175	110
111+00.00	50	14	0	0	26	0	0	311	175	136
111+50.00	50	7	0	2	20	0	2	331	178	153
112+00.00	50	4	0	0	10	0	2	341	181	160
112+50.00	50	4	0	11	7	0	10	348	193	155
113+00.00	50	4	0	50	7	0	56	355	263	91
113+50.00	50	3	0	60	7	0	102	361	390	-29
114+00.00	50	3	0	61	6	0	111	367	530	-163
114+50.00	50	3	0	44	5	0	97	372	651	-279
115+00.00	50	6	0	12	8	0	52	381	716	-336
115+50.00	50	2	0	0	7	0	11	388	730	-342
115+75.00	25	0	0	0	1	0	0	389	730	-341
					389	0	584			

INDUSTRIAL COURT

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
10+50.00		40	23	49	0	0	0	0	0	0
11+00.00	50	90	23	6	120	34	51	120	64	22
11+25.00	25	97	23	0	86	34	3	207	67	71
					207	68	54			

HITCHCOCK STREET

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
20+35.00		114	18	0	0	0	0	0	0	0
20+50.00	15	86	18	0	56	10	0	56	0	46
20+75.00	25	82	18	0	78	17	0	134	0	107
21+00.00	25	82	18	0	76	17	0	209	0	166
					209	43	0			

WALDO STREET

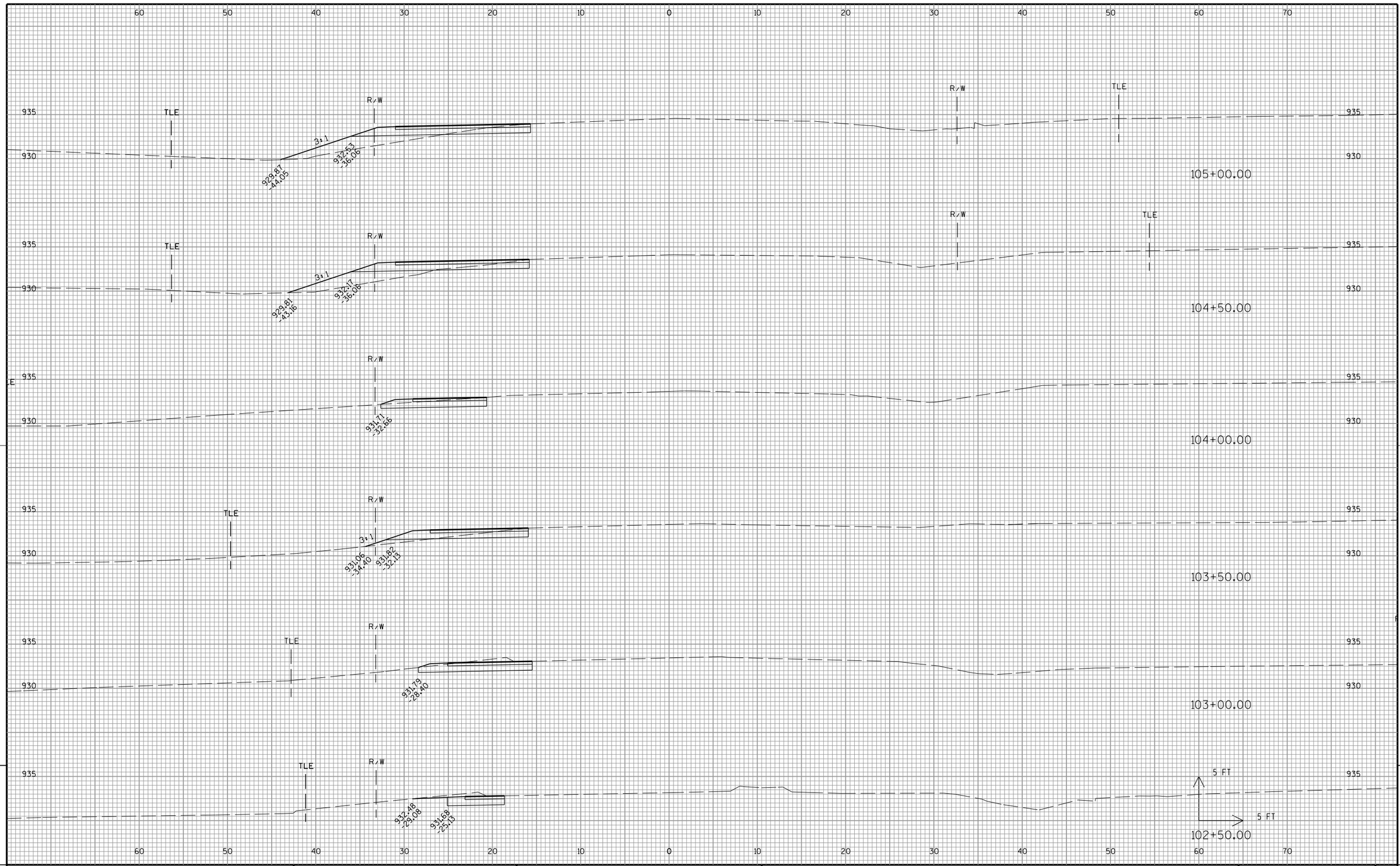
STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
29+00.00		78	17	0	0	0	0	0	0	0
29+25.00	25	84	17	2	75	16	1	75	1	58
29+50.00	25	111	17	0	90	16	1	165	3	132
29+60.00	10	96	17	3	39	25	1	204	3	144
					204	56	3			

SOUTH BOULEVARD

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
100+63.00		9	0	0	0	0	0	0	0	0
101+00.00	37	5	0	18	10	0	12	10	15	-5
101+25.00	25	144	37	22	69	17	18	79	38	24
101+50.00	25	167	35	21	144	33	20	223	63	111
102+00.00	50	202	31	6	342	61	25	565	94	361
102+50.00	50	213	27	1	384	53	7	949	103	682
103+00.00	50	180	22	7	363	45	7	1312	112	991
103+50.00	50	213	19	11	364	38	17	1676	133	1296
104+00.00	50	171	20	4	356	36	14	2031	150	1598
104+50.00	50	178	16	11	323	33	14	2354	168	1870
105+00.00	50	183	29	0	334	41	10	2688	181	2150
105+50.00	50	178	29	9	334	53	9	3022	191	2421
106+00.00	50	175	29	3	327	53	12	3349	206	2680
106+14.00	14	169	29	0	89	15	1	3438	207	2753
106+50.00	36	151	29	4	213	38	3	3651	210	2925
107+00.00	50	180	29	0	306	53	4	3957	215	3174
107+14.00	14	173	29	2	91	15	0	4049	215	3250
107+50.00	36	180	29	0	236	38	1	4284	217	3446
107+80.00	30	222	29	0	224	32	0	4508	217	3638
108+00.00	20	204	29	0	158	21	0	4666	217	3775
108+50.00	50	204	29	7	378	53	7	5043	225	4091
109+00.00	50	212	29	5	384	53	11	5428	239	4409
109+50.00	50	196	29	1	378	53	5	5805	245	4728
109+68.00	18	196	29	0	131	19	0	5936	246	4839
110+00.00	32	248	29	0	263	34	0	6199	246	5068
110+50.00	50	286	29	0	495	53	0	6694	247	5509
111+00.00	50	236	29	2	483	53	2	7177	249	5937
111+50.00	50	174	29	10	379	53	11	7556	263	6249
112+00.00	50	82	29	44	237	53	49	7793	325	6371
112+40.00	40	48	29	63	96	42	79	7889	424	6326
112+50.00	10	37	29	26	16	11	16	7905	445	6311
112+61.00	11	26	29	32	13	12	12	7918	459	6297
113+00.00	39	7	29	125	24	41	114	7941	601	6138
113+50.00	50	0	29	221	6	53	320	7948	1002	5691
114+00.00	50	0	29	295	0	53	477	7948	1598	5042
114+50.00	50	0	29	302	0	53	553	7948	2290	4297
115+00.00	50	0	29	239	0	53	501	7948	2916	3619
115+50.00	50	0	29	138	0	53	349	7948	3352	3130
116+00.00	50	36	29	43	34	53	167	7981	3561	2902
116+50.00	50	50	29	43	80	53	79	8061	3660	2830
117+00.00	50	72	29	42	113	53	78	8174	3757	2793
117+50.00	50	102	29	34	161	53	70	8335	3844	2814
118+00.00	50	116	29	20	202	53	50	8537	3907	2901
118+50.00	50	129	29	20	227	53	37	8764	3953	3029
118+88.00	38	171	29	13	211	40	23	8975	3982	3171
119+00.00	12	151	29	15	72	13	6	9047	3990	3222
119+50.00	50	160	29	33	288	53	45	9334	4046	3401
119+60.00	10	172	29	31	61	11	12	9396	4060	3437
120+00.00	40	171	29	23	255	42	40	9651	4110	3600
120+50.00	50	171	29	14	317	53	34	9967	4152	3821
120+83.00	33	184	29	5	217	35	11	10184	4166	3989
121+00.00	17	178	29	7	114	18	4	10298	4171	4080
121+50.00	50	133	29	35	288	53	38	10585	4219	4267
122+00.00	50	130	29	34	243	53	64	10828	4298	4378
122+50.00	50	131	29	32	242	53	62	11069	4375	4489
123+00.00	50	139	29	18	250	53	47	11319	4434	4628
123+50.00	50	146	29	18	264	53	33	11583	4475	4798
124+00.00	50	152	29	19	276	53	34	11859	4518	4977
124+50.00	50	155	29	19	284	53	35	12142	4562	5164
125+00.00	50	156	29	16	288	53	32	12430	4603	5359
125+50.00	50	155	29	20	288	53	33	12719	4645	5553
126+00.00	50	147	35	28	280	58	45	12999	4701	5718
126+50.00	50	236	35	0	355	64	26	13353	4733	5976
127+00.00	50	124	35	3	334	64	2	13687	4736	6244
127+50.00	50	124	35	6	230	64	8	13917	4746	6400
128+00.00	50	126	35	6	231	64	11	14149	4760	6554
128+50.00	50	126	35	6	233	64	12	14382	4774	6708
129+00.00	50	121	35	10	229	64	15	14610	4793	6854
129+21.00	21	131	35	9	98	27	7	14708	4802	6916
129+50.00	29	146	35	0	149	37	5	14857	4809	7021
129+62.00	12	146	35	0	65	15	0	14922	4809	7071
130+00.00	38	129	35	21	194	49	15	15116	4827	7197
130+50.00	50	118	35	20	228	64	38	15344	4875	7314
131+00.00	50	98	35	24	200	64	41	15544	4925	7399
131+50.00	50	85	35	22	170	64	43	15714	4979	7452
132+00.00	50	89	35	2	161	64	23	15875	5007	7521

SOUTH BOULEVARD

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/ Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
132+50.00	50	78	35	3	155	64	4	16030	5012	7607
133+00.00	50	79	35	3	145	64	5	16175	5019	7682
133+50.00	50	80	35	3	147	64	5	16322	5024	7759
133+68.00	18	93	35	1	58	23	1	16379	5026	7792
133+88.00	20	90	35	1	68	26	1	16447	5027	7834
134+00.00	12	92	35	1	40	15	0	16487	5027	7859
134+50.00	50	104	35	0	182	64	1	16669	5028	7975
135+00.00	50	109	35	0	198	64	0	16867	5028	8109
135+50.00	50	109	35	2	202	64	1	17068	5030	8245
135+62.00	12	129	35	0	53	15	0	17121	5030	8282
136+00.00	38	103	35	0	163	49	0	17284	5030	8397
136+50.00	50	110	35	4	197	64	3	17481	5034	8526
137+00.00	50	128	35	0	221	64	3	17702	5038	8678
137+17.00	17	154	35	0	89	22	0	17791	5038	8746
137+50.00	33	137	35	0	178	42	0	17968	5038	8881
138+00.00	50	139	35	0	255	64	0	18224	5038	9073
138+17.00	17	162	35	0	95	22	0	18319	5038	9146
138+50.00	33	127	35	0	176	42	0	18495	5038	9280
138+63.00	13	131	35	0	62	17	0	18557	5038	9325
139+00.00	37	123	35	0	174	47	0	18730	5038	9451
139+50.00	50	125	35	1	229	64	1	18959	5039	9615
139+91.00	41	140	35	0	201	52	0	19160	5040	9763
140+00.00	9	145	35	0	47	12	0	19207	5040	9799
140+50.00	50	131	35	0	256	64	0	19463	5040	9990
140+66.00	16	128	35	0	77	20	0	19540	5040	10047
141+00.00	34	124	35	0	159	43	0	19699	5040	10162
141+50.00	50	122	35	0	228	64	0	19927	5040	10326
141+85.00	35	127	35	0	161	45	0	20088	5040	10443
142+00.00	15	116	35	1	67	19	0	20156	5040	10491
142+50.00	50	122	35	0	220	64	0	20375	5041	10646
142+68.00	18	140	35	0	87	23	0	20462	5041	10711
143+00.00	32	118	35	0	153	41	0	20615	5041	10822
143+50.00	50	112	35	0	213	64	0	20828	5041	10971
144+00.00	50	114	35	0	209	64	0	21038	5042	11116
144+50.00	50	132	35	0	227	64	0	21265	5042	11279
145+00.00	50	139	35	0	250	64	1	21515	5043	11465
145+27.00	27	145	35	0	142	35	0	21657	5043	11572
145+50.00	23	120	35	0	113	29	0	21770	5043	11655
145+80.00	30	112	23	2	129	32	1	21899	5045	11751
146+00.00	20	118	23	2	85	17	2	21984	5047	11817
146+25.00	25	147	23	0	123	21	1	22107	5048	11918
146+50.00	25	117	23	0	122	21	0	22229	5048	12020
147+00.00	50	119	23	0	218	42	0	22448	5048	12197
147+50.00	50	123	23	2	224	42	2	22672	5050	12377
148+00.00	50	144	23	0	248	42	2	22920	5052	12581
148+50.00	50	137	23	1	261	42	0	23181	5053	12800
149+00.00	50	125	23	0	243	42	1	23424	5054	13000
149+50.00	50	157	23	0	261	42	0	23685	5054	13220
150+00.00	50	112	23	1	250	42	1	23935	5056	13426
150+13.00	13	122	23	0	56	11	0	23991	5056	13471
150+50.00	37	115	23	1	162	31	1	24154	5057	13602
150+78.00	28	138	23	0	131	23	0	24285	5057	13709
151+00.00	22	118	23	1	104	18	0	24389	5058	13795
151+22.00	22	122	23	0	98	18	0	24487	5059	13873
151+50.00	28	118	23	1	124	23	0	24611	5059	13974
152+00.00	50	121	23	1	221	42	1	24832	5061	14152
152+50.00	50	124	23	0	227	42	1	25059	5062	14336
152+78.00	28	131	23	0	132	23	0	25192	5062	14445
153+00.00	22	128	23	0	106	18	0	25297	5062	14532
153+50.00	50	132	23	0	241	42	0	25538	5063	14731
154+00.00	50	136	23	0	248	42	0	25786	5063	14937
154+18.00	18	145	23	0	93	15	0	25880	5063	15016
154+50.00	32	138	23	0	168	27	0	26047	5063	15157
155+00.00	50	142	23	0	260	42	0	26307	5063	15375
155+50.00	50	141	23	0	263	42	0	26570	5063	15596
155+68.00	18	150	23	0	97	15	0	26667	5063	15678
156+00.00	32	141	23	0	172	27	0	26839	5063	15823
156+38.00	38	151	23	0	205	32	0	27045	5063	15997
156+50.00	12	142	23	0	65	10	0	27110	5063	16052
157+00.00	50	146	23	0	267	42	0	27377	5063	16278
157+50.00	50	130	23	0	256	42	0	27632	5063	16491
157+73.00	23	138	23	0	114	19	0	27746	5063	16586
158+00.00	27	128	23	0	133	23	0	27879	5063	16696
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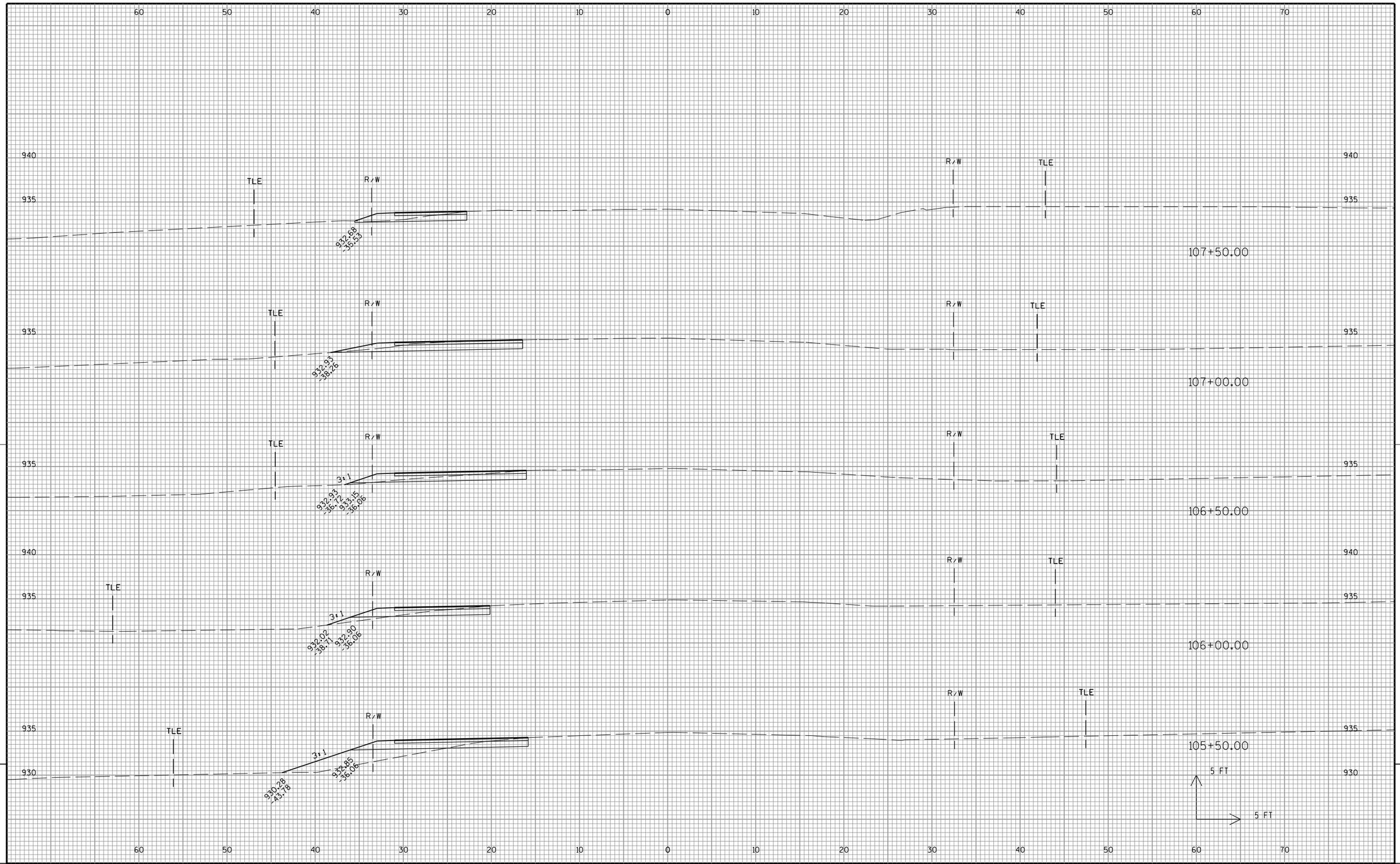


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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: STAGE 1 - TEMPORARY WIDENING	SHEET 185	E

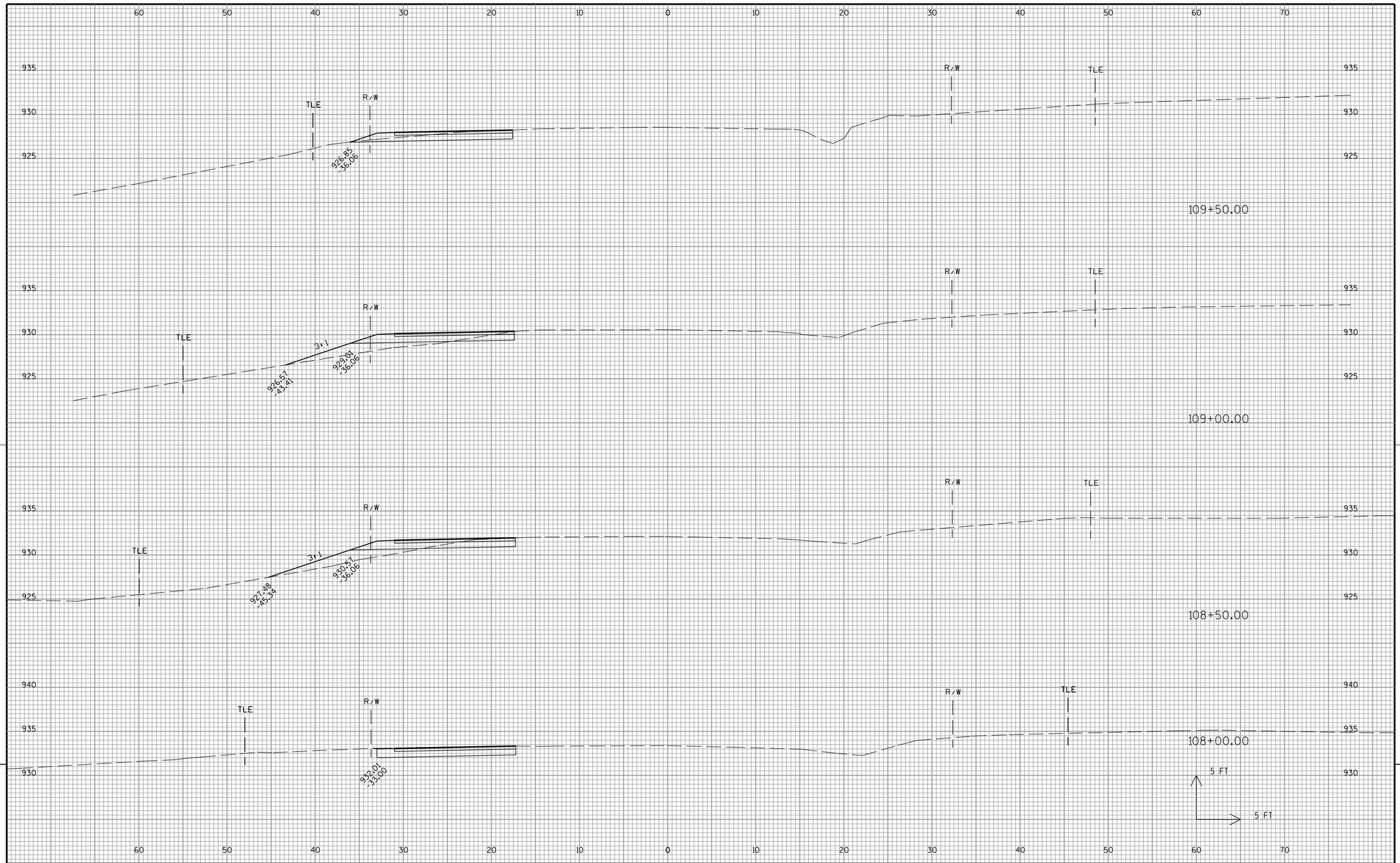
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PLOT DATE : 1/27/2014
PLOT BY : GRAEF
PLOT NAME :
PLOT SCALE : 10.0000 ft / in.
WISDOT/CADDS SHEET 21



9

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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: STAGE 1 - TEMPORARY WIDENING	SHEET 186	E



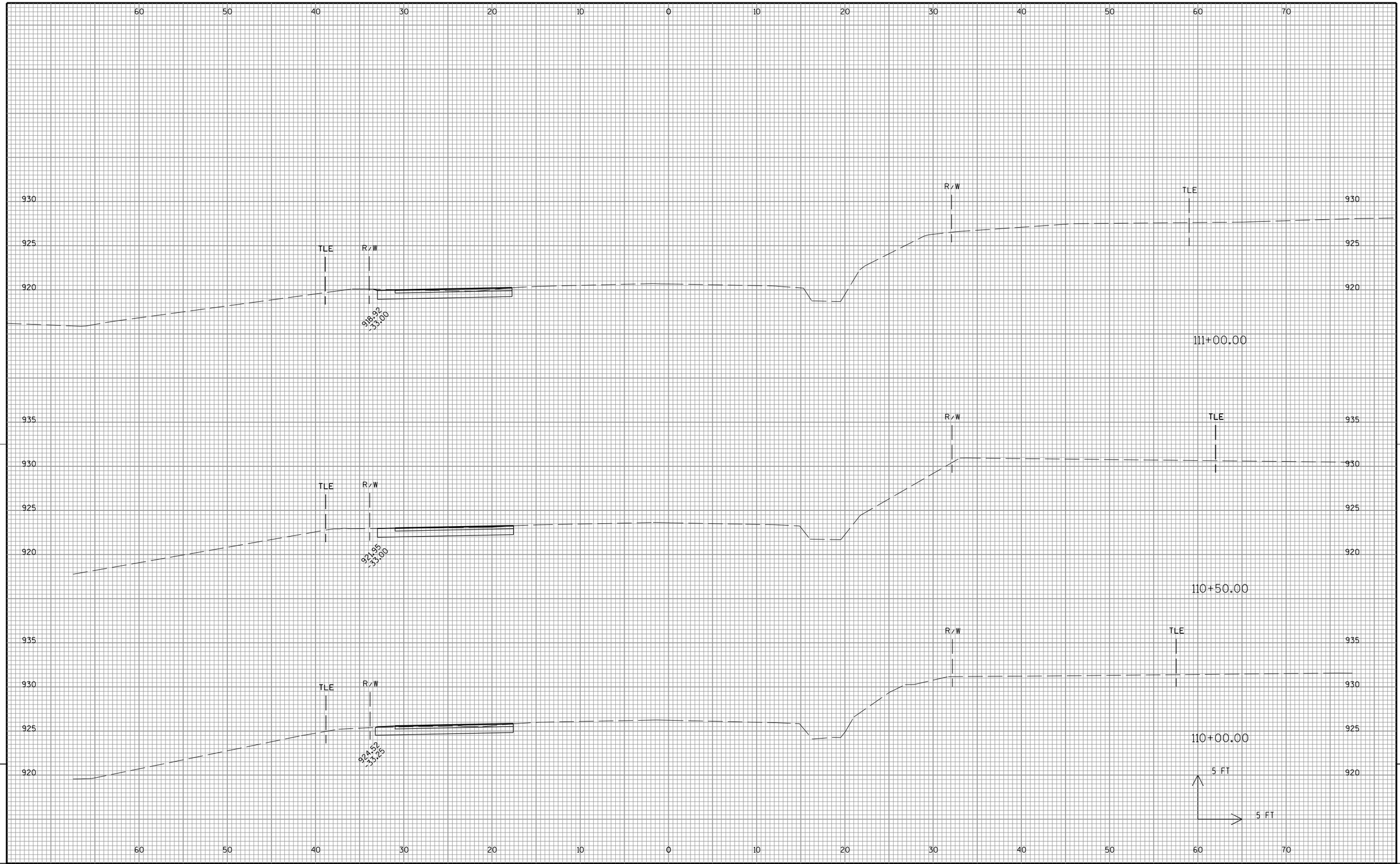
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: STAGE 1 - TEMPORARY WIDENING	SHEET 187	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090201_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: STAGE 1 - TEMPORARY WIDENING	SHEET 188	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090201_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21

60 50 40 30 20 10 0 10 20 30 40 50 60 70

910
905
TLE
R/W
3:1
903.60
-44.68
906.47
-36.06
TLE
R/W
910
905
113+00.00

915
TLE
TLE
R/W
910.24
-34.00
TLE
R/W
915
112+50.00

920
915
TLE
R/W
3:1
911.84
-38.74
912.73
-36.06
TLE
R/W
920
915
112+00.00

925
920
915
TLE
R/W
915.90
-31.00
TLE
R/W
925
920
915
111+50.00
5 FT
5 FT

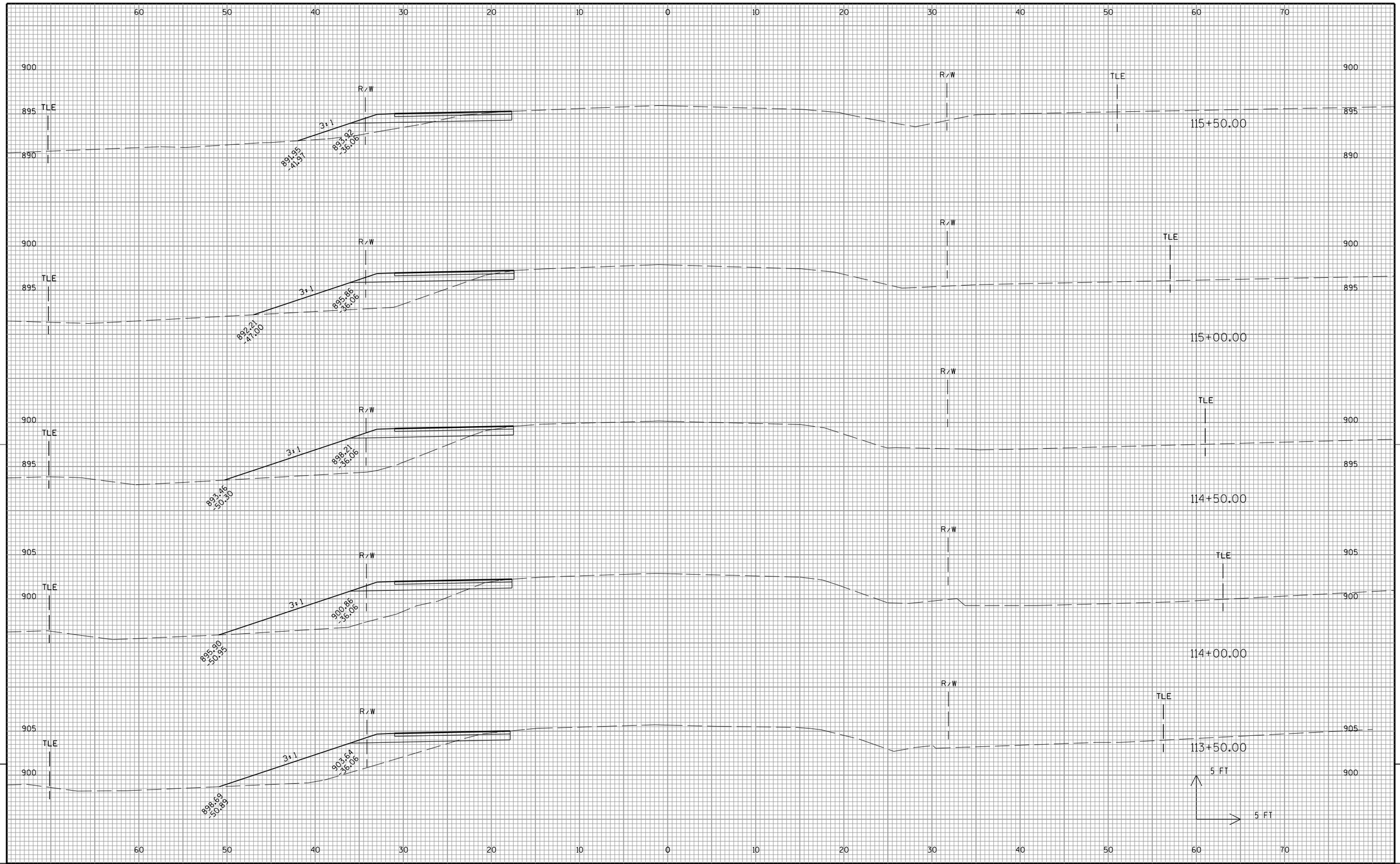
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60 50 40 30 20 10 0 10 20 30 40 50 60 70

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: STAGE 1 - TEMPORARY WIDENING	SHEET 189	E

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PLOT BY : GRAEF
PLOT NAME :
PLOT SCALE : 10.0000 ft / in.
WISDOT/CADDS SHEET 21

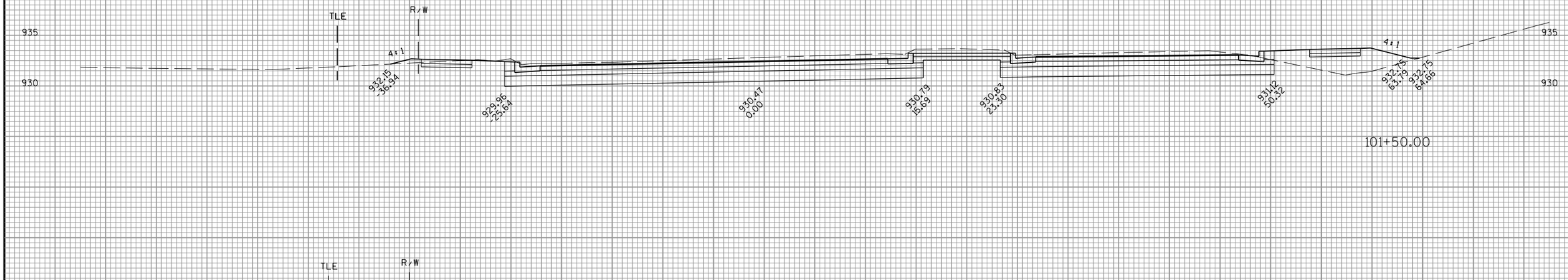


PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: STAGE 1 - TEMPORARY WIDENING	SHEET 190	E

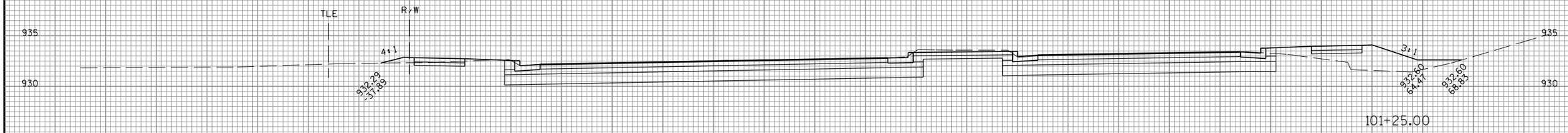
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WISDOT/CADDS SHEET 21

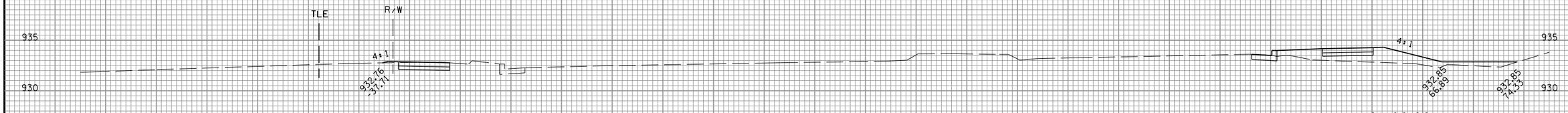
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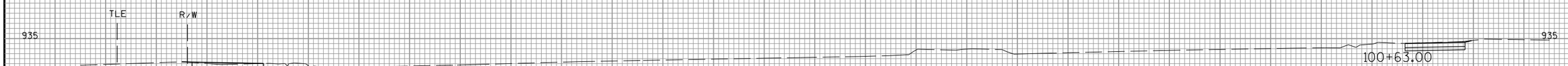
101+50.00



101+25.00



101+00.00



100+63.00

BEGIN ABRUPT

5 FT

5 FT

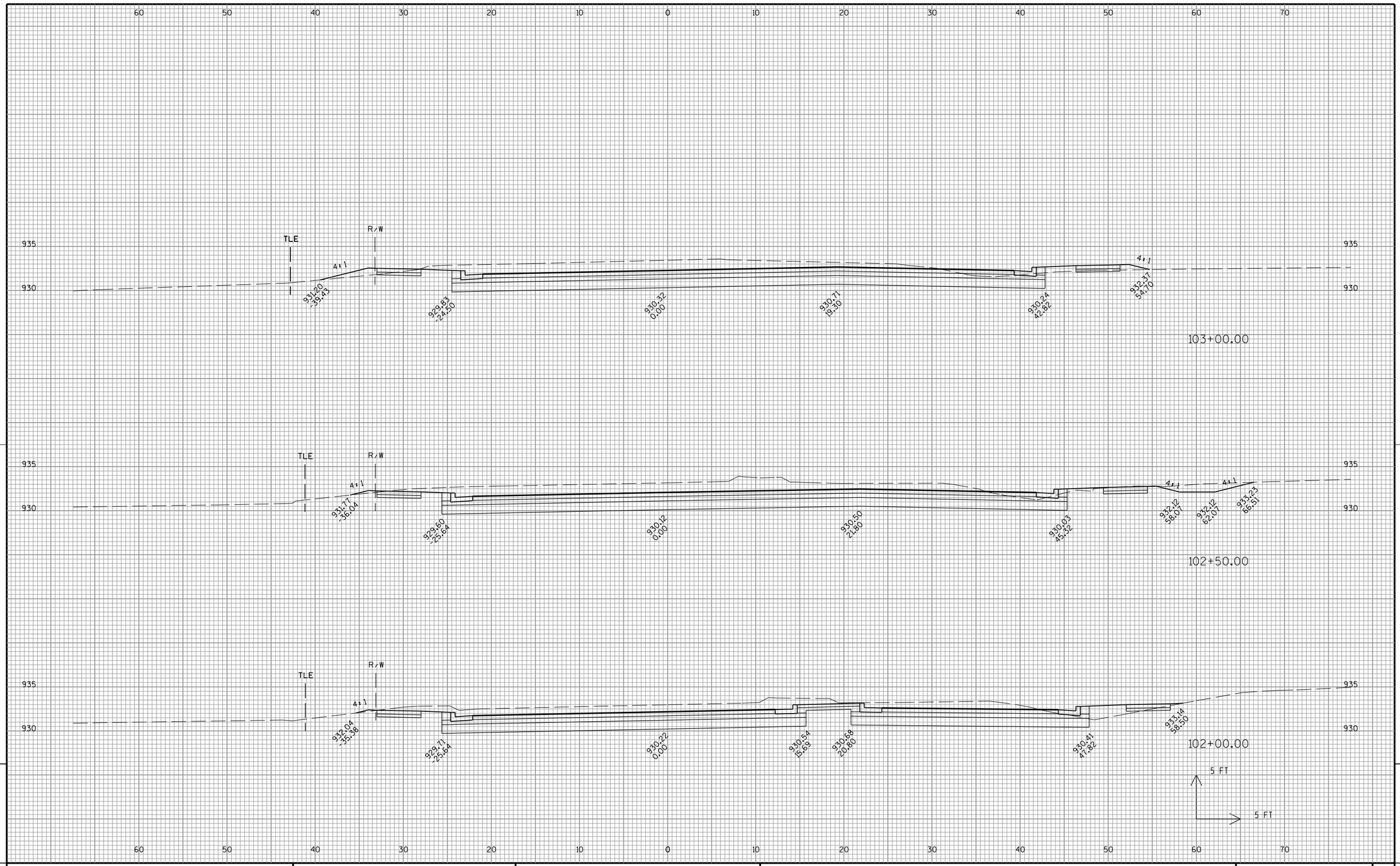
60 50 40 30 20 10 0 10 20 30 40 50 60 70

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PROJECT NO:5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 191	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

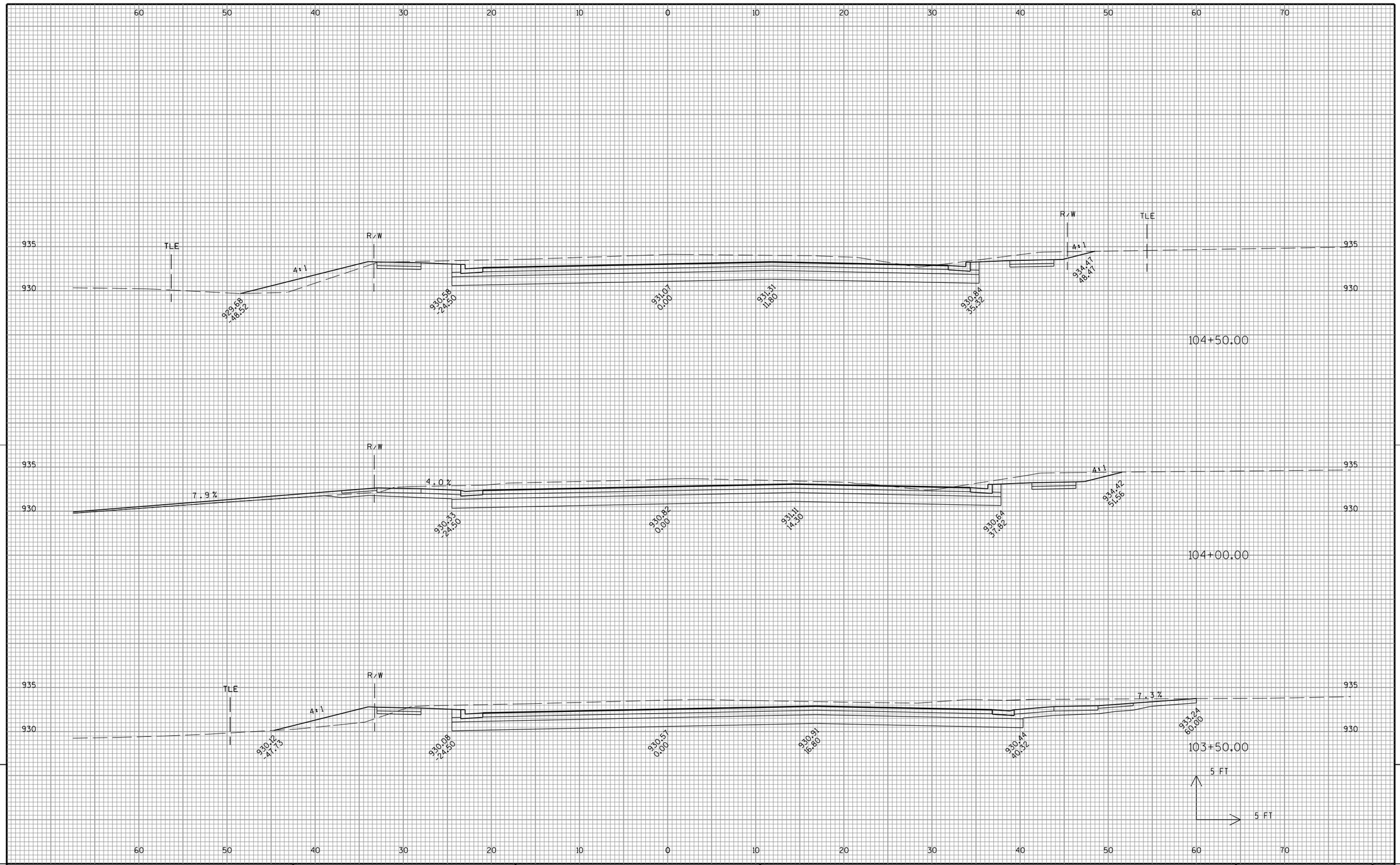
WISDOT/CADDS SHEET 21



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 192	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn | PLOT DATE : 1/27/2014 | PLOT BY : GRAEF | PLOT NAME : | PLOT SCALE : 10.0000 ft / in.

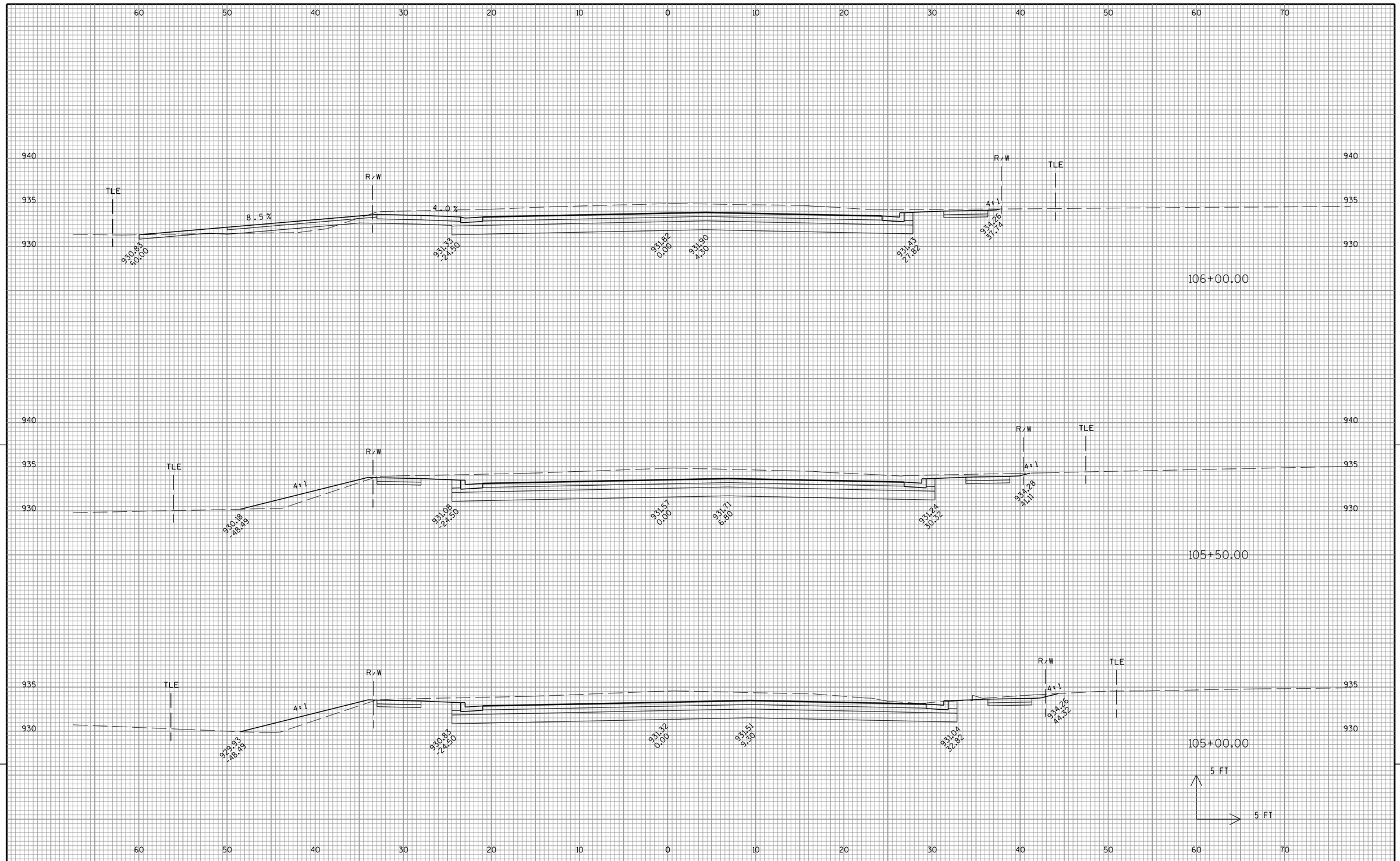
WISDOT/CADDS SHEET 21



PROJECT NO:5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 193	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



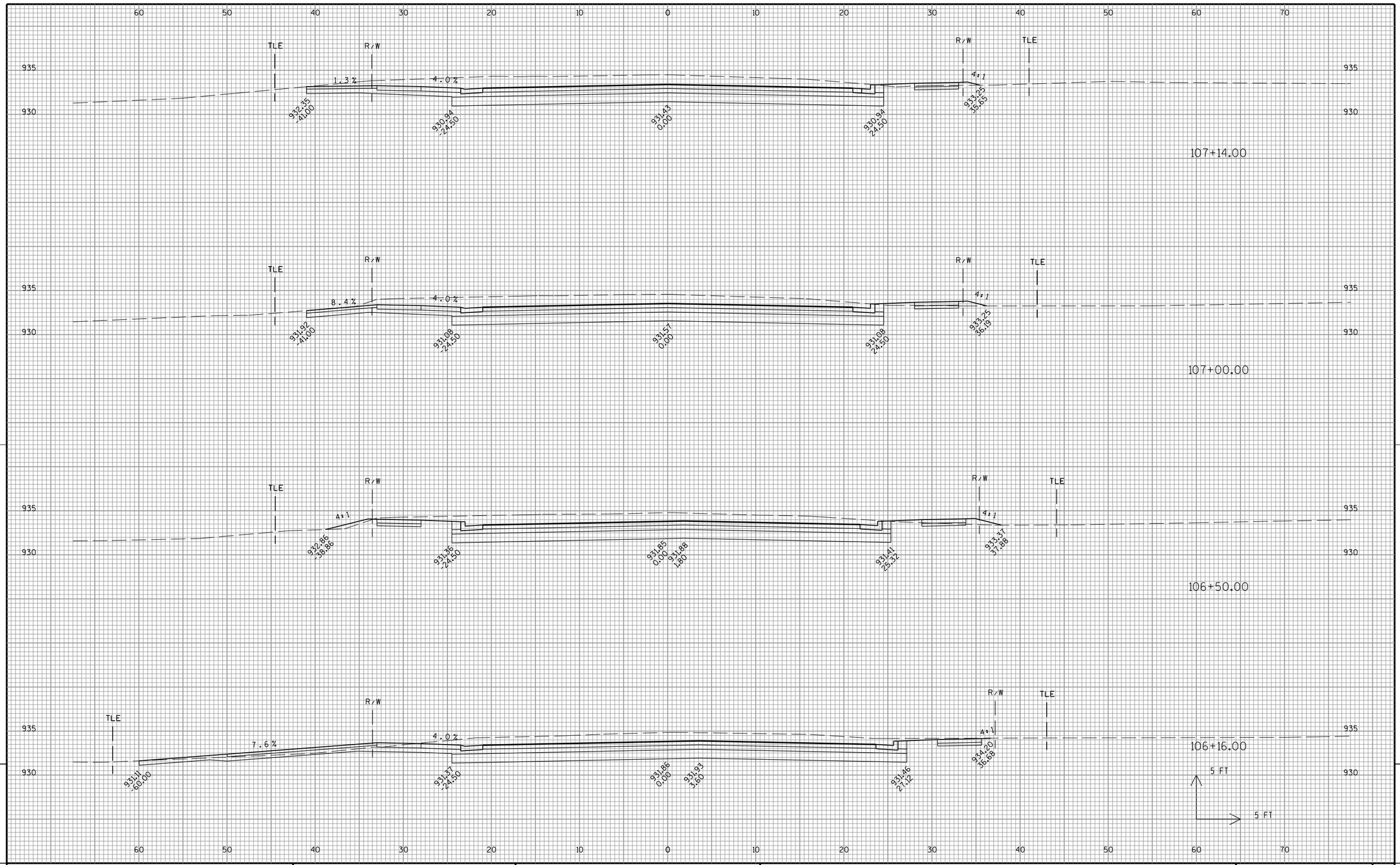
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 194	E

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WISDOT/CADDS SHEET 21



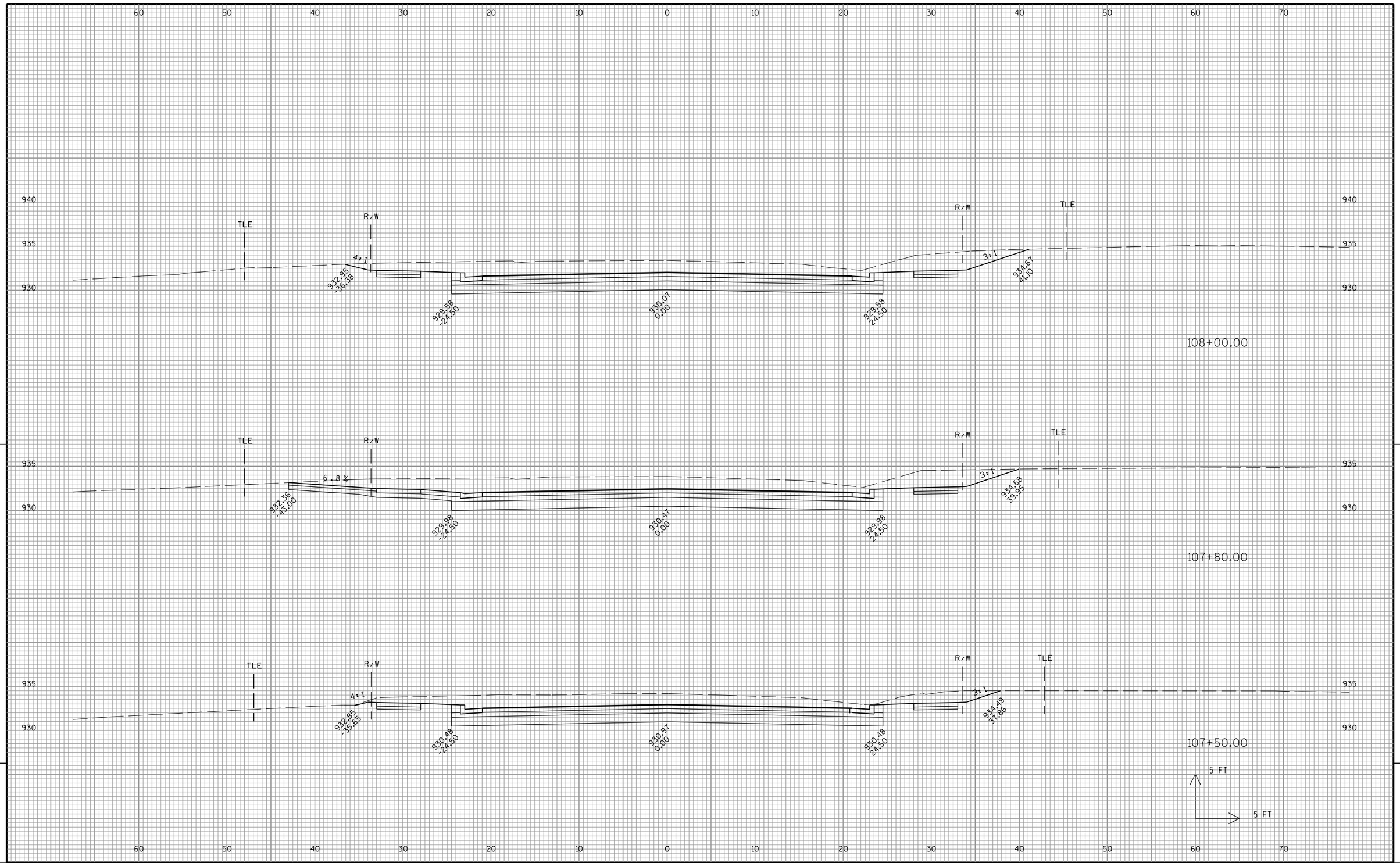
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 195	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

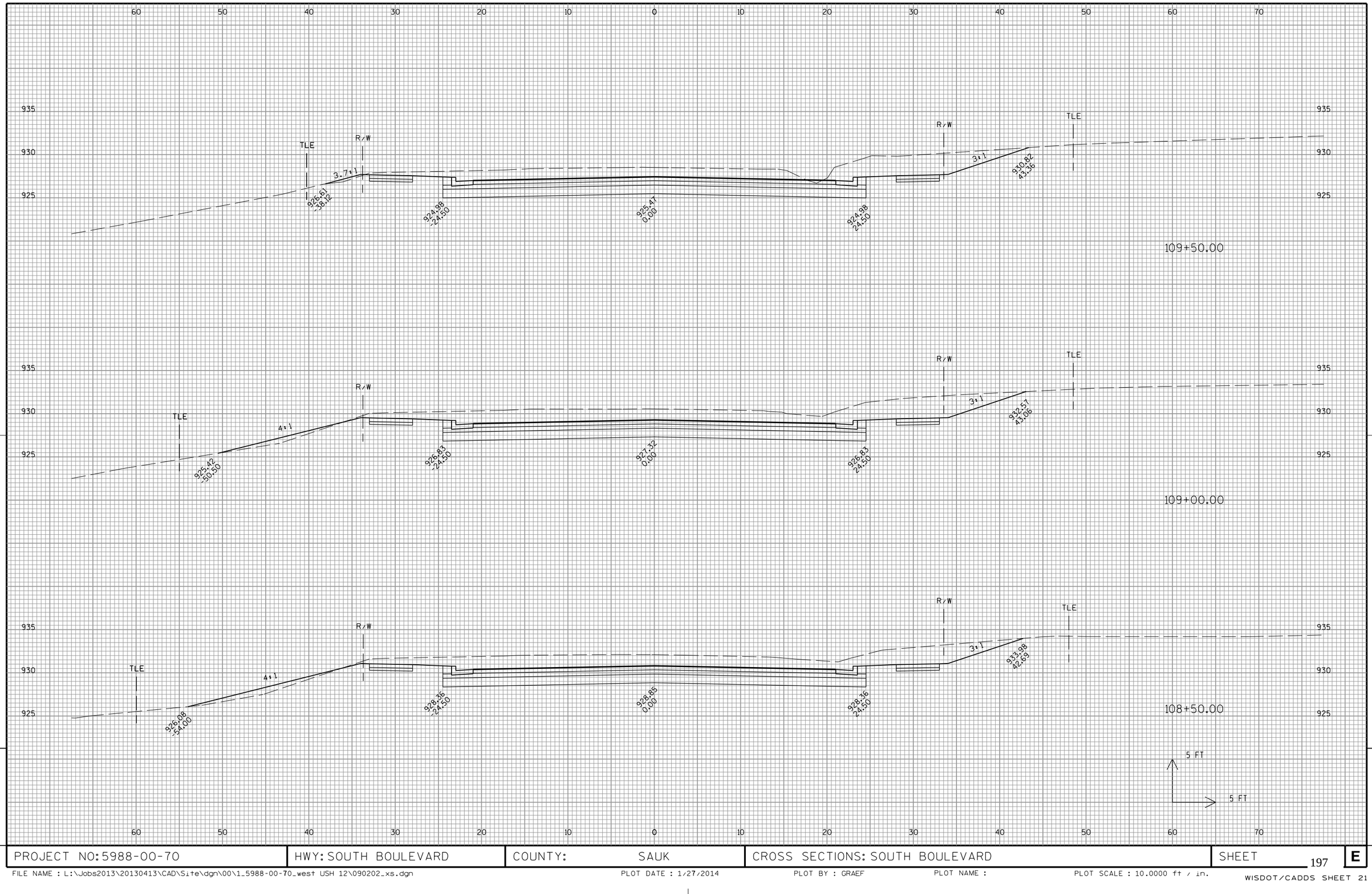
WISDOT/CADDS SHEET 21



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 196	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



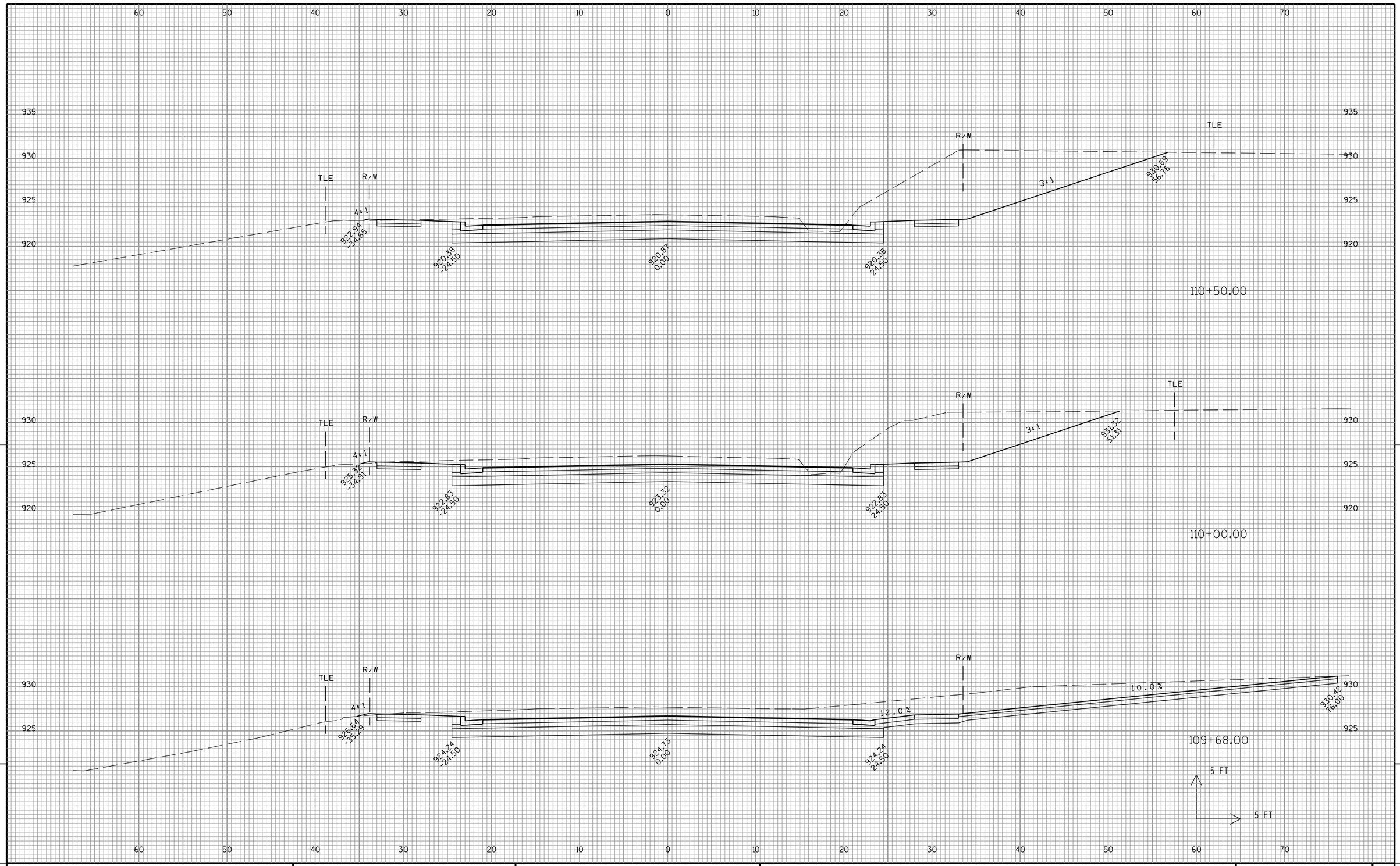
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 197	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21

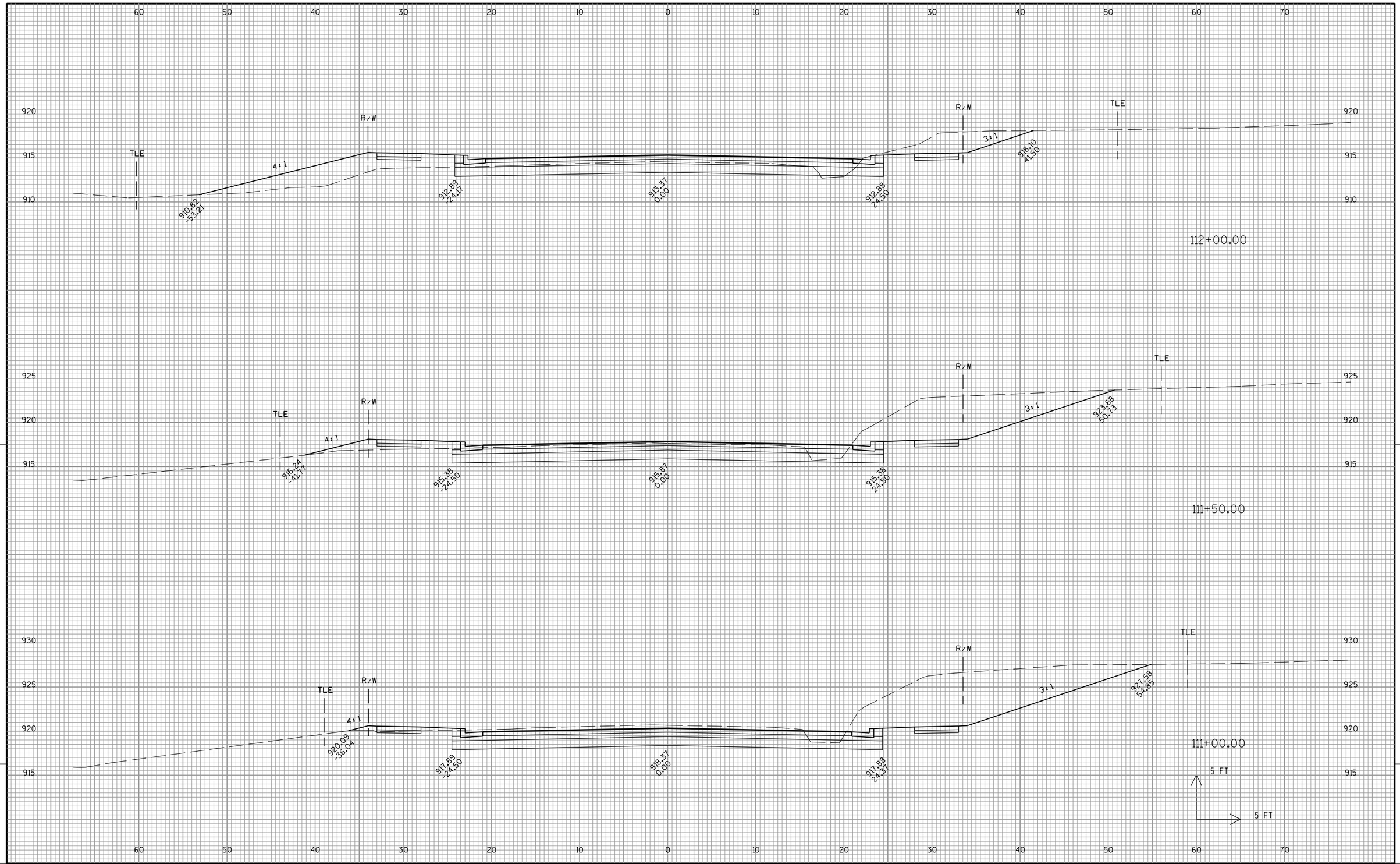


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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 198	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn
PLOT DATE : 1/27/2014
PLOT BY : GRAEF
PLOT NAME :
PLOT SCALE : 10.0000 ft / in.
WISDOT/CADDS SHEET 21



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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 199	E

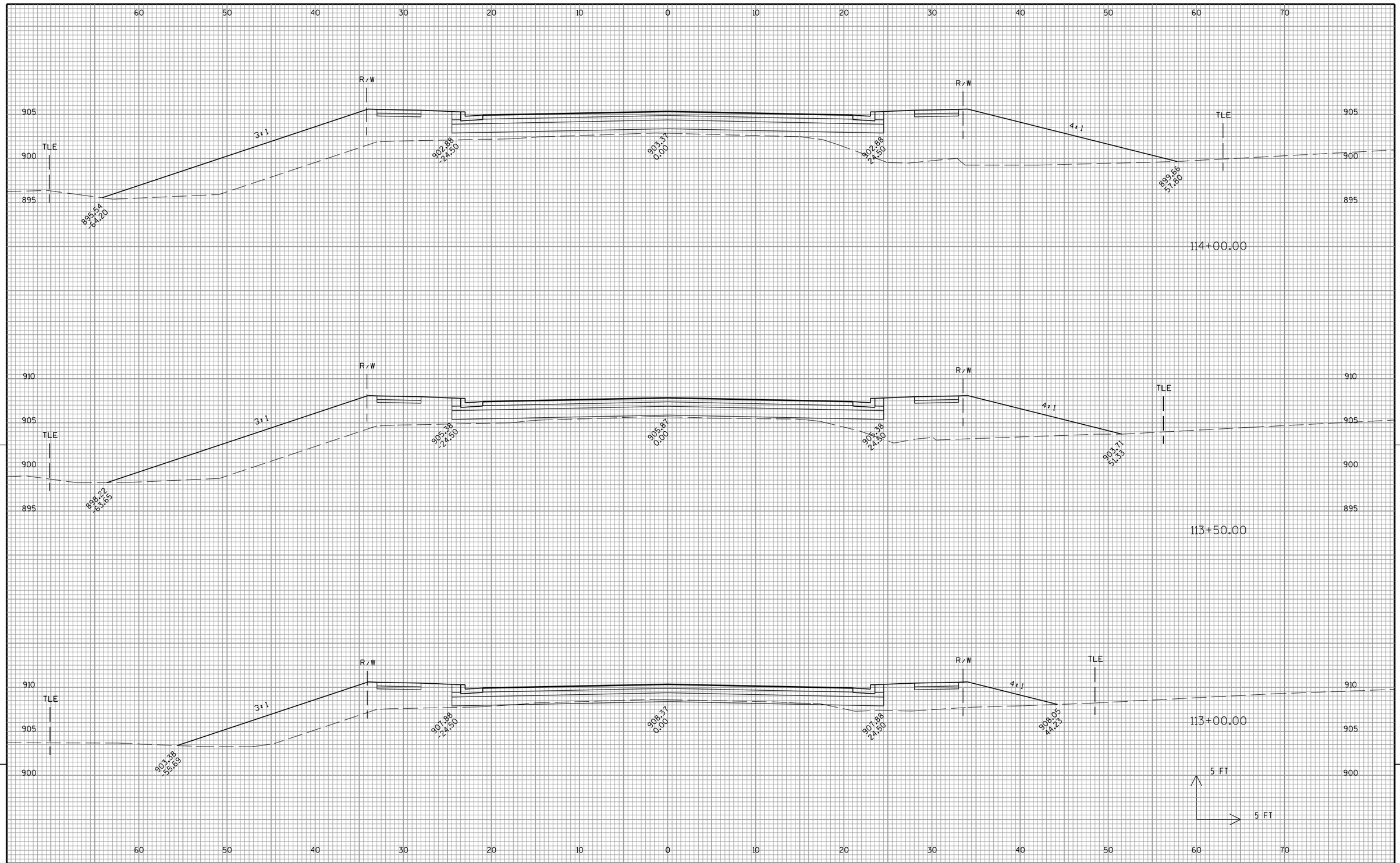
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 200	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



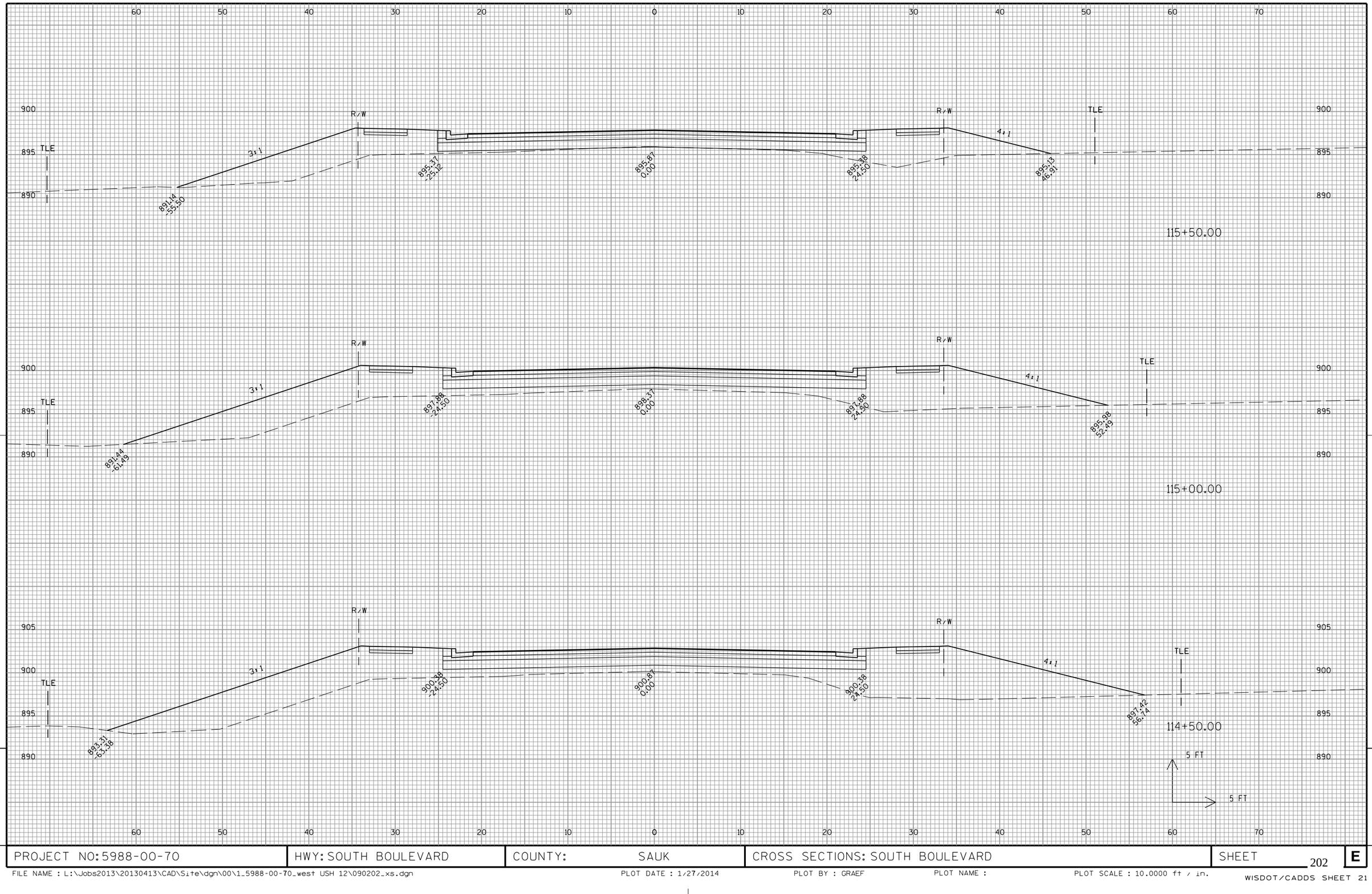
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 201	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



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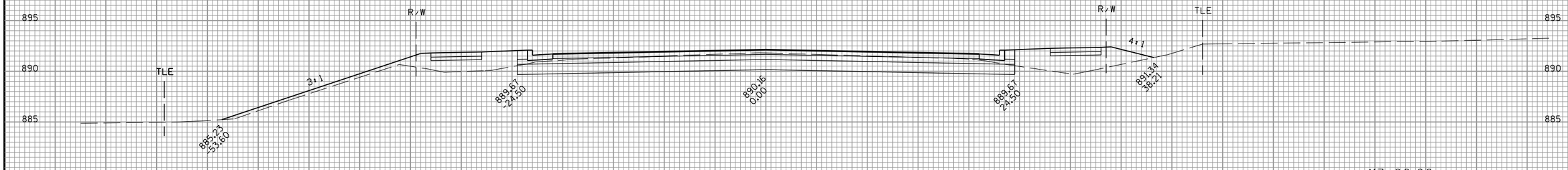
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 202	E

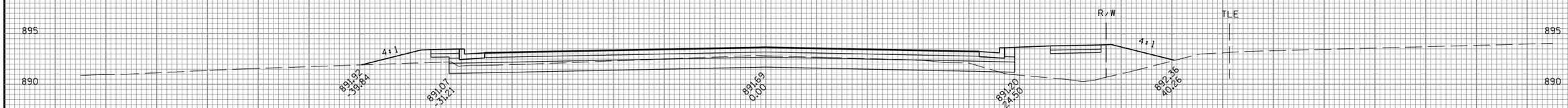
FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21

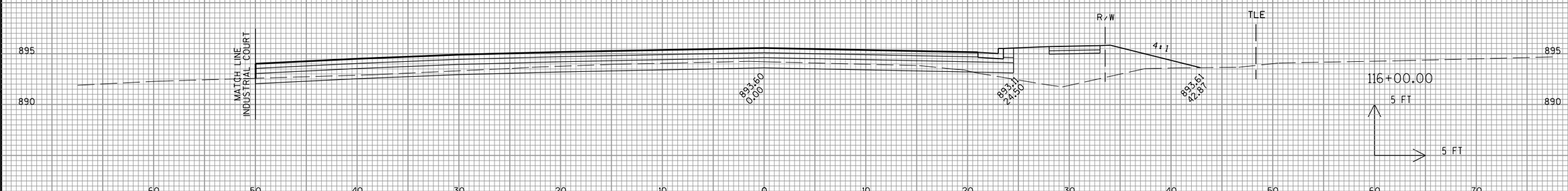
60 50 40 30 20 10 0 10 20 30 40 50 60 70



117+00.00



116+50.00



116+00.00

5 FT

5 FT

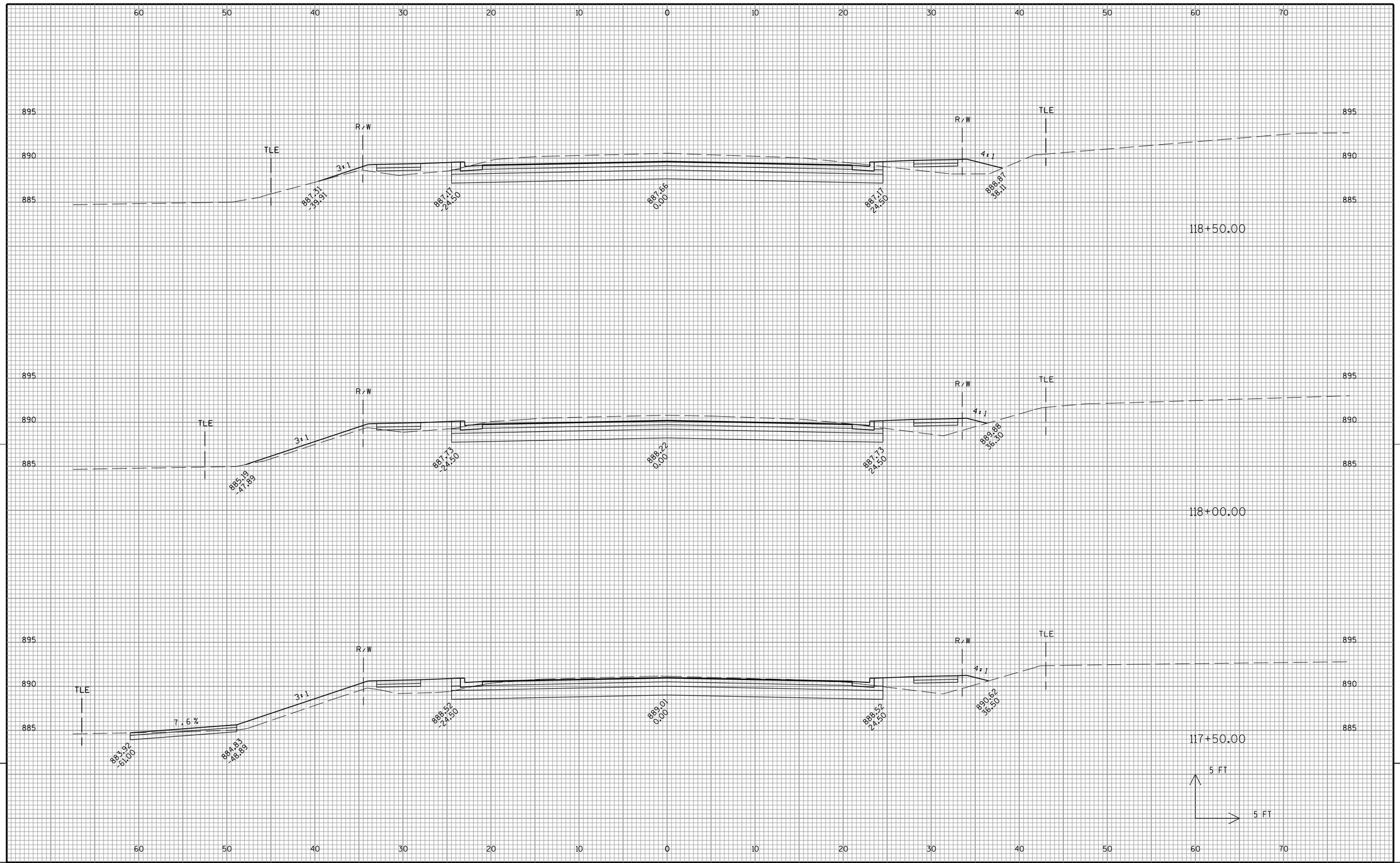
60 50 40 30 20 10 0 10 20 30 40 50 60 70

9 9

PROJECT NO:5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 203	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

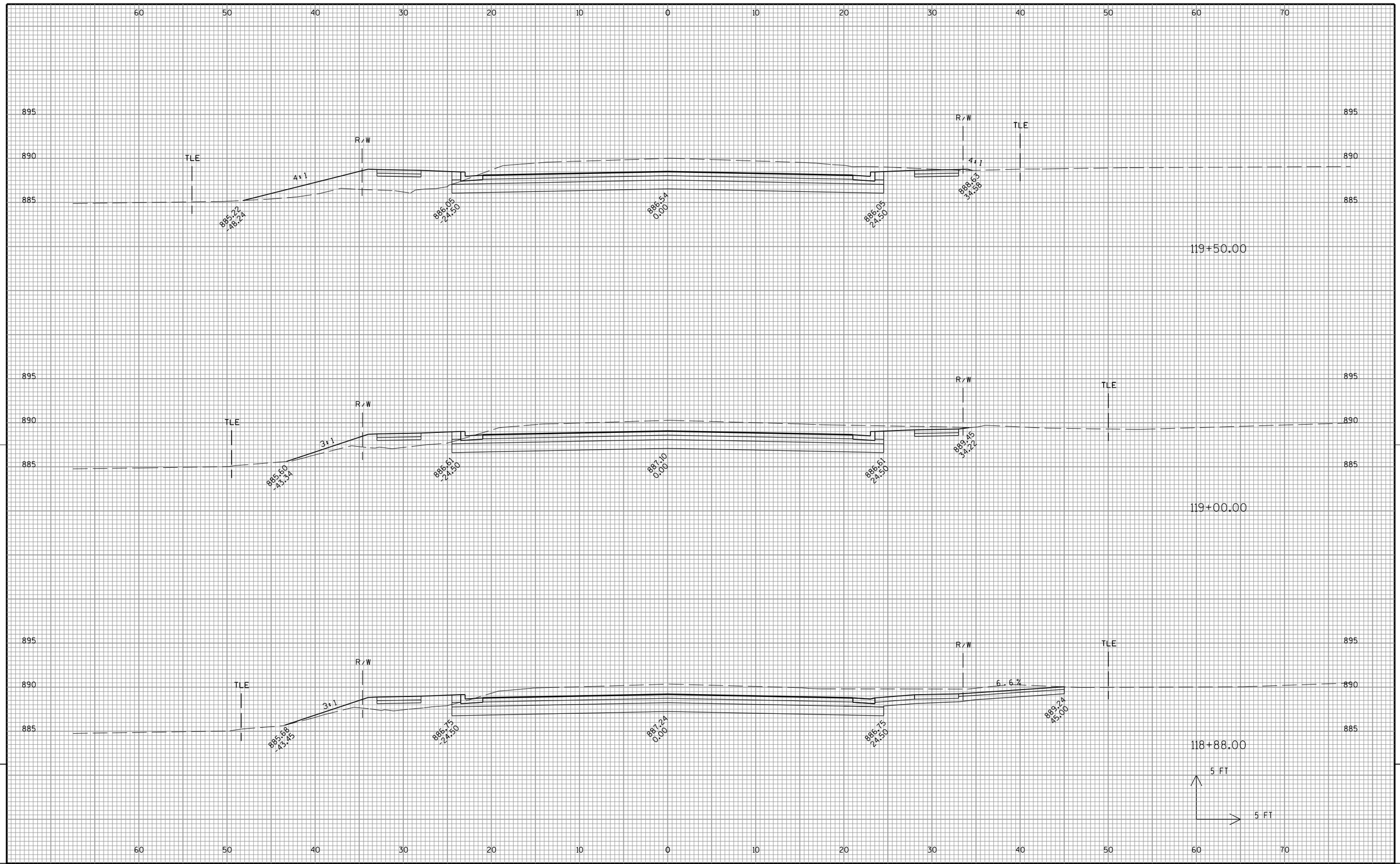
WISDOT/CADDS SHEET 21



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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 204	E



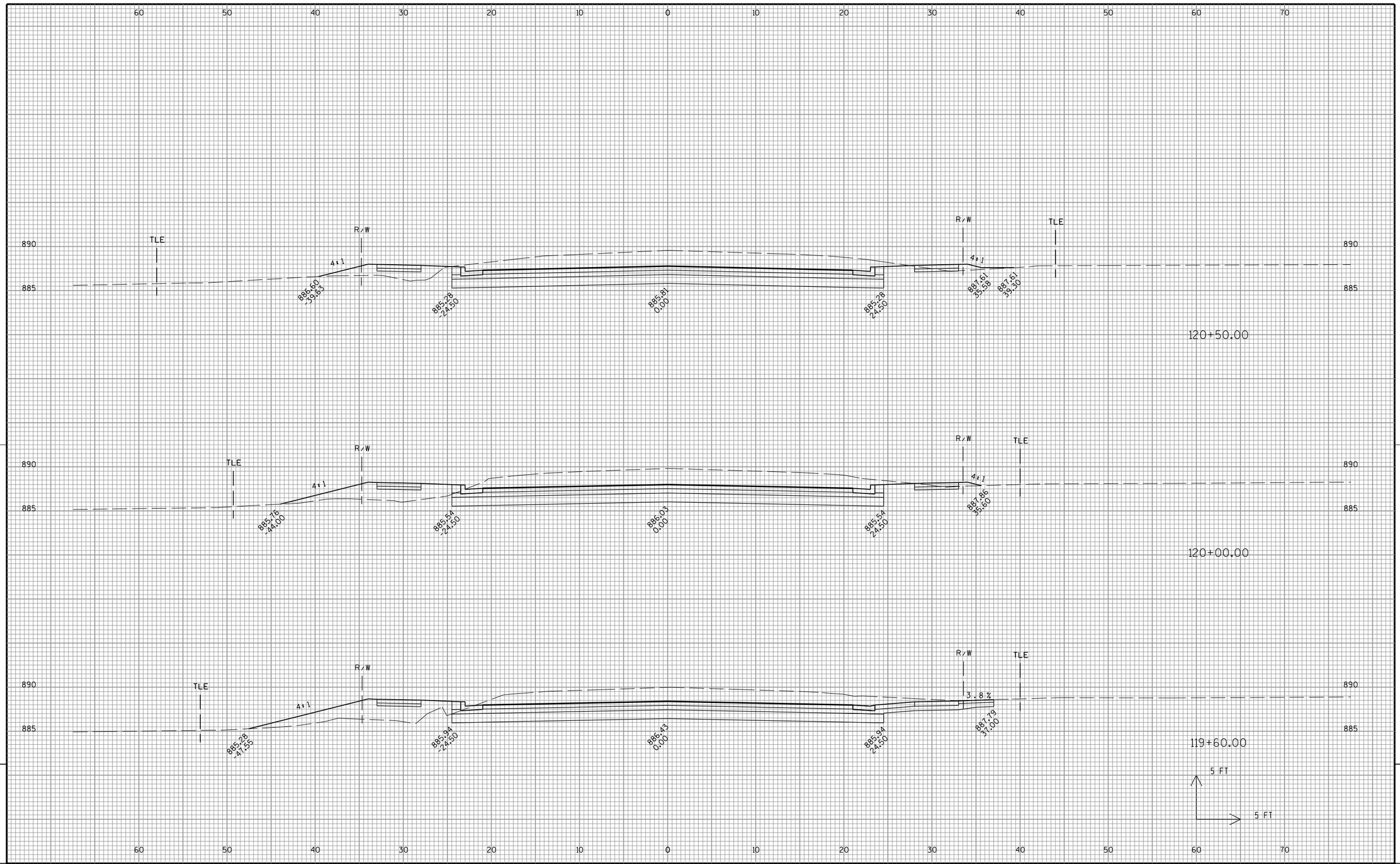
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 205	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



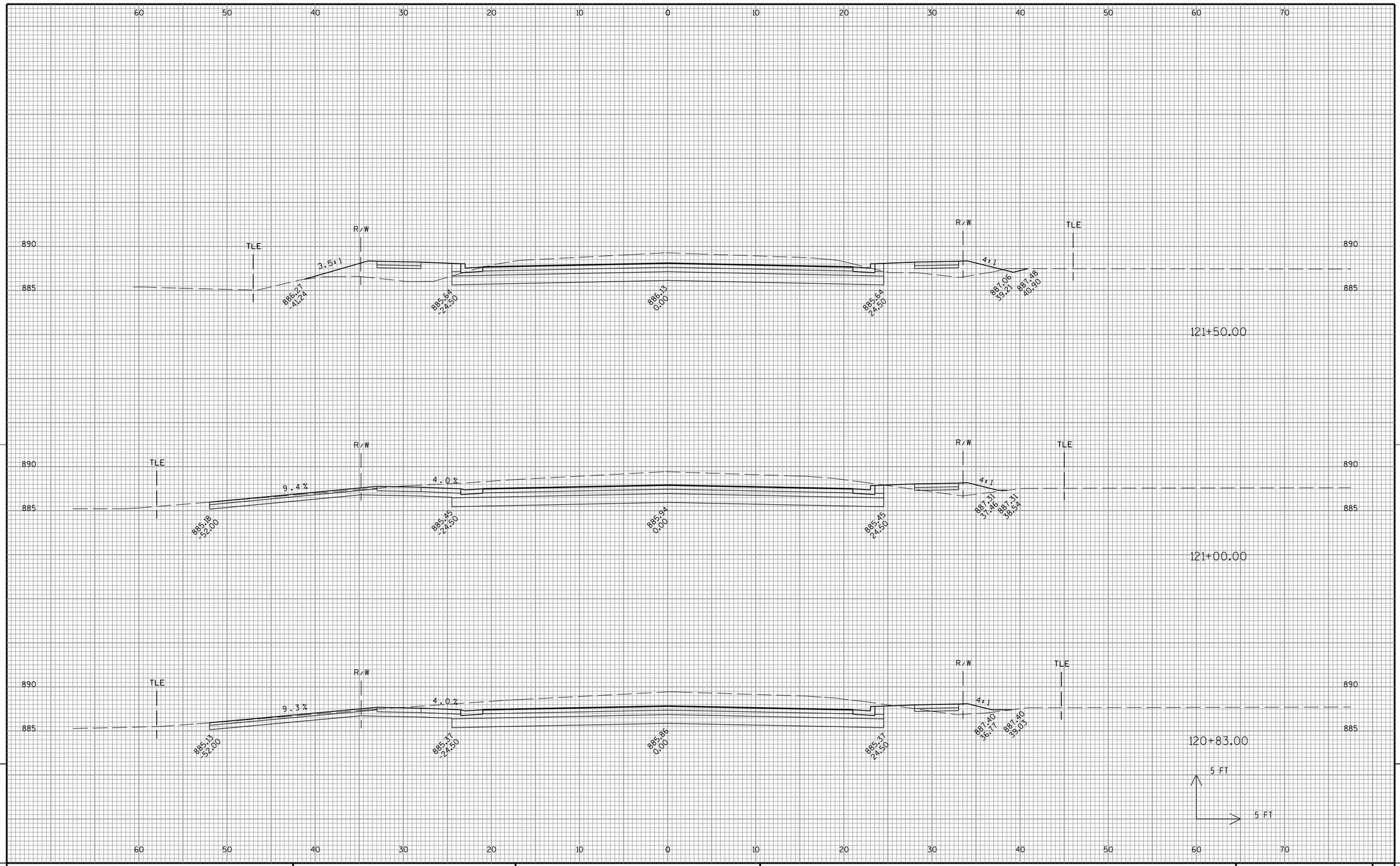
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 206	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

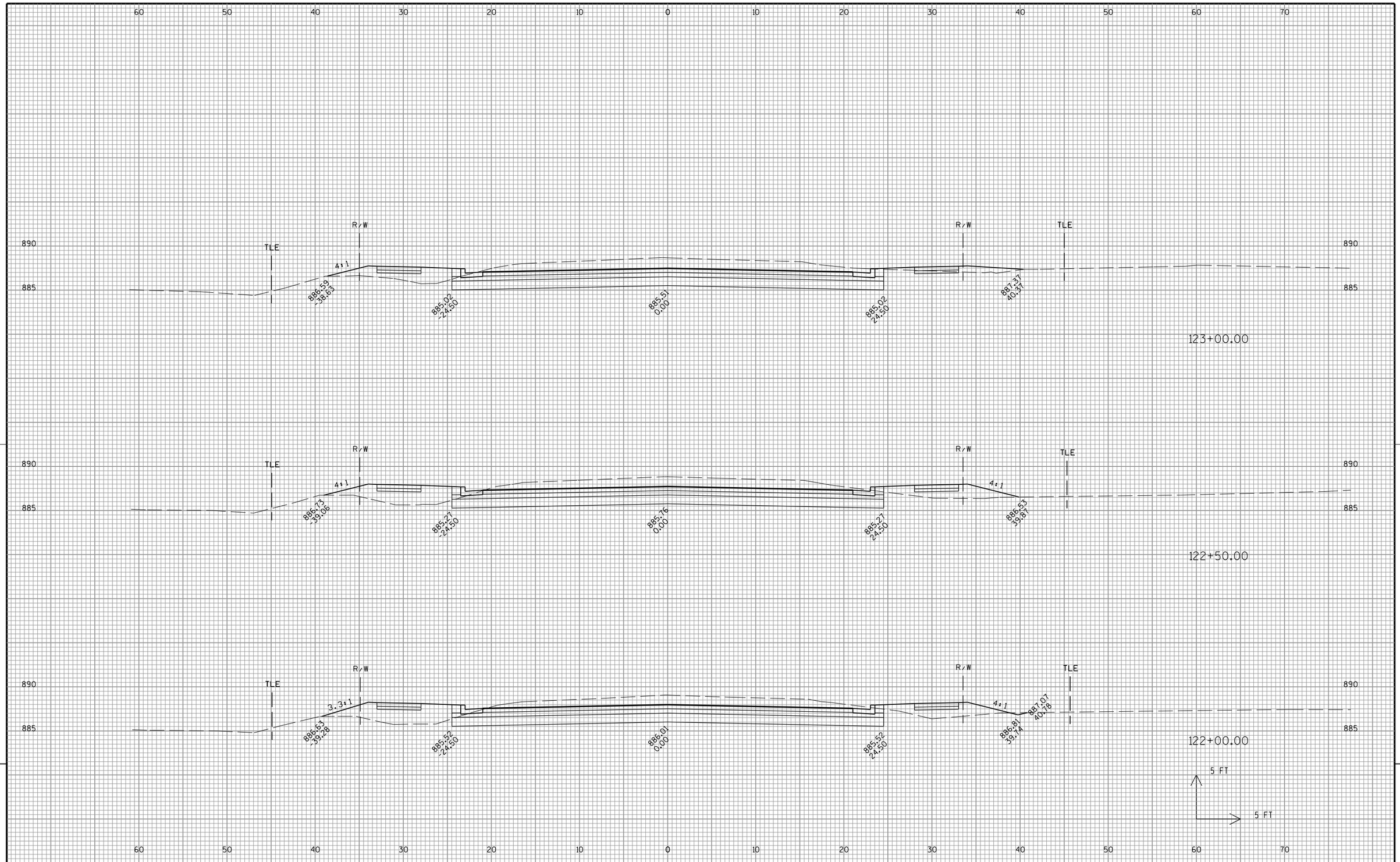
WISDOT/CADDS SHEET 21



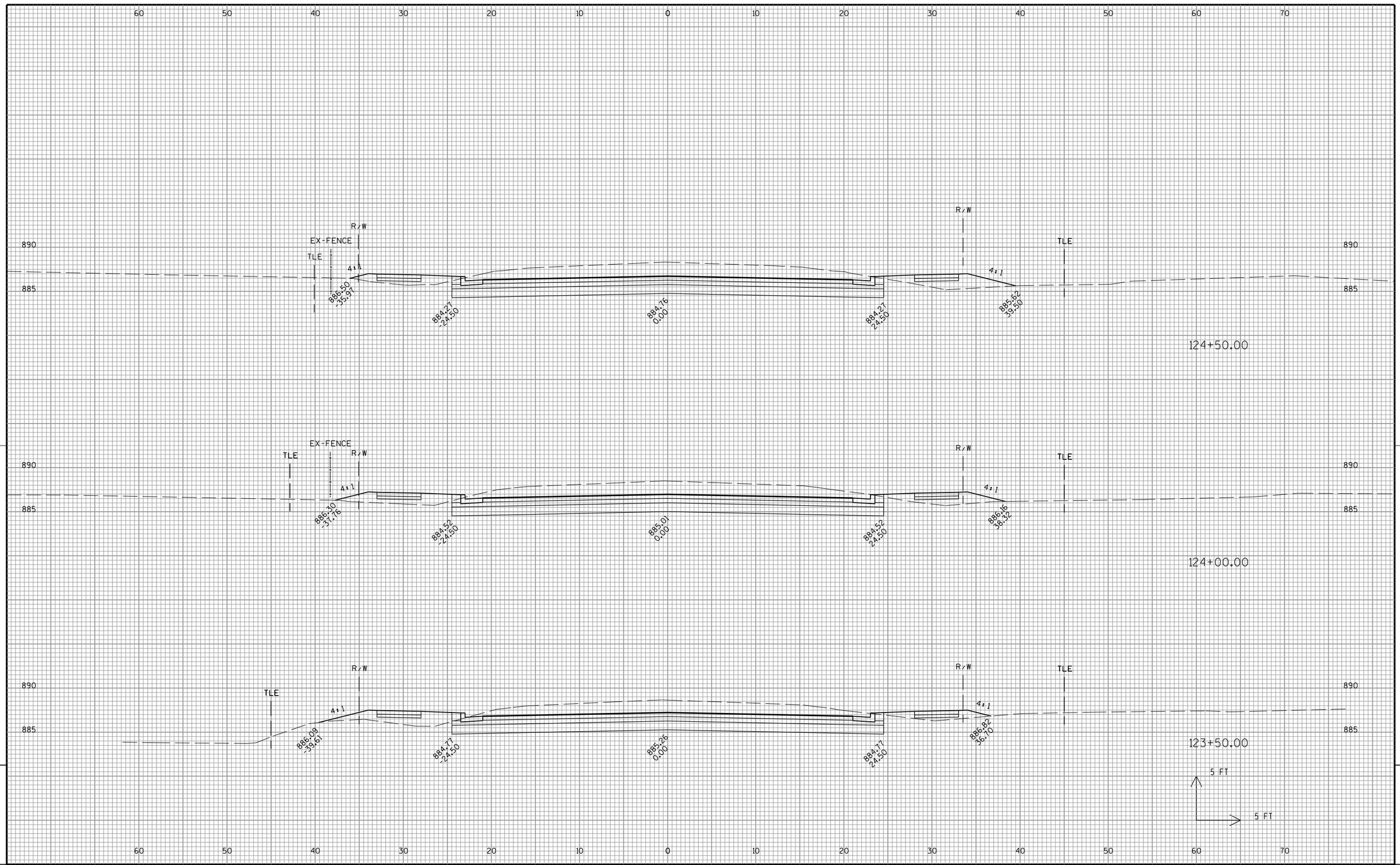
PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 207	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



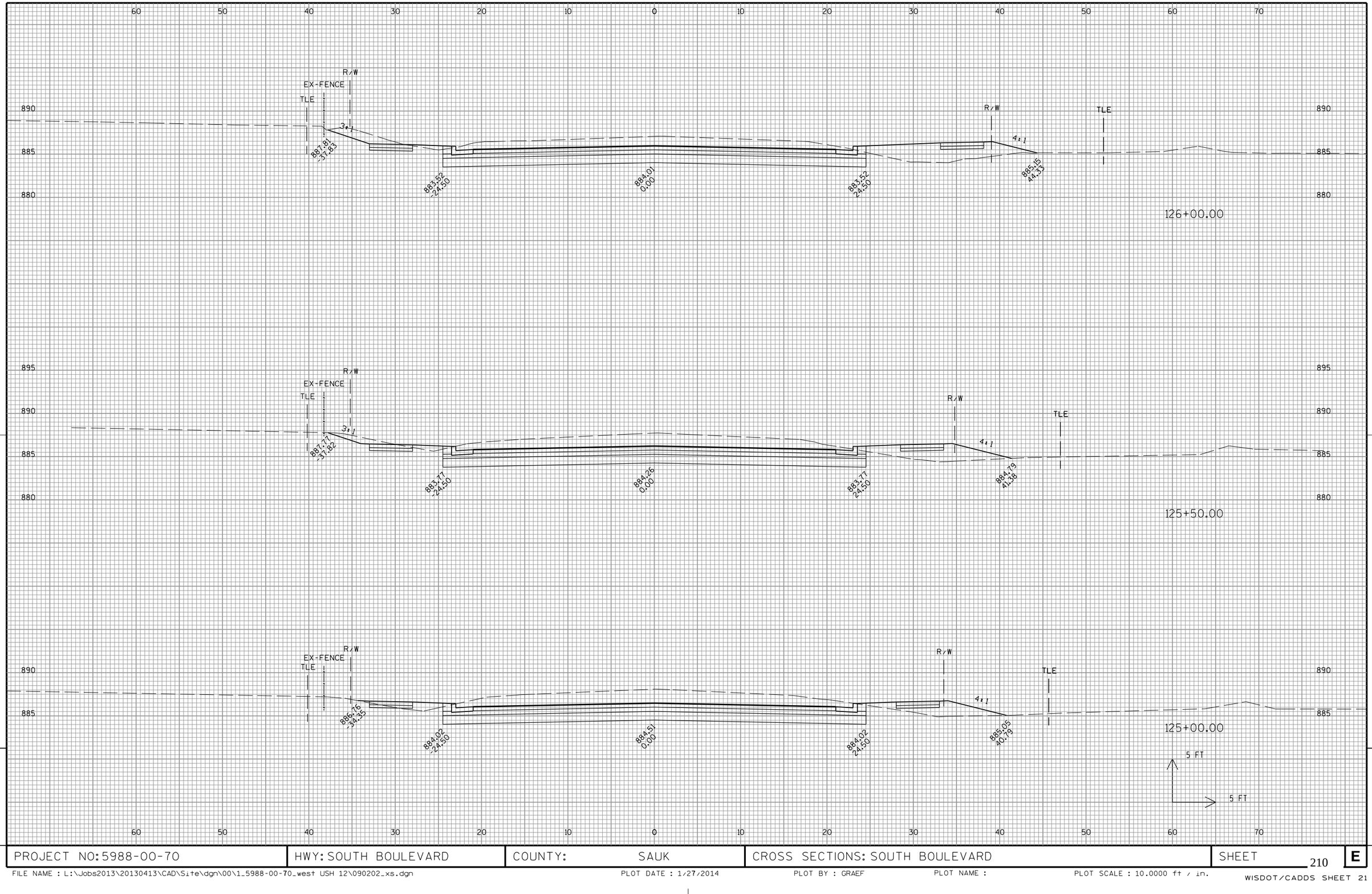
PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 208	E



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 209	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

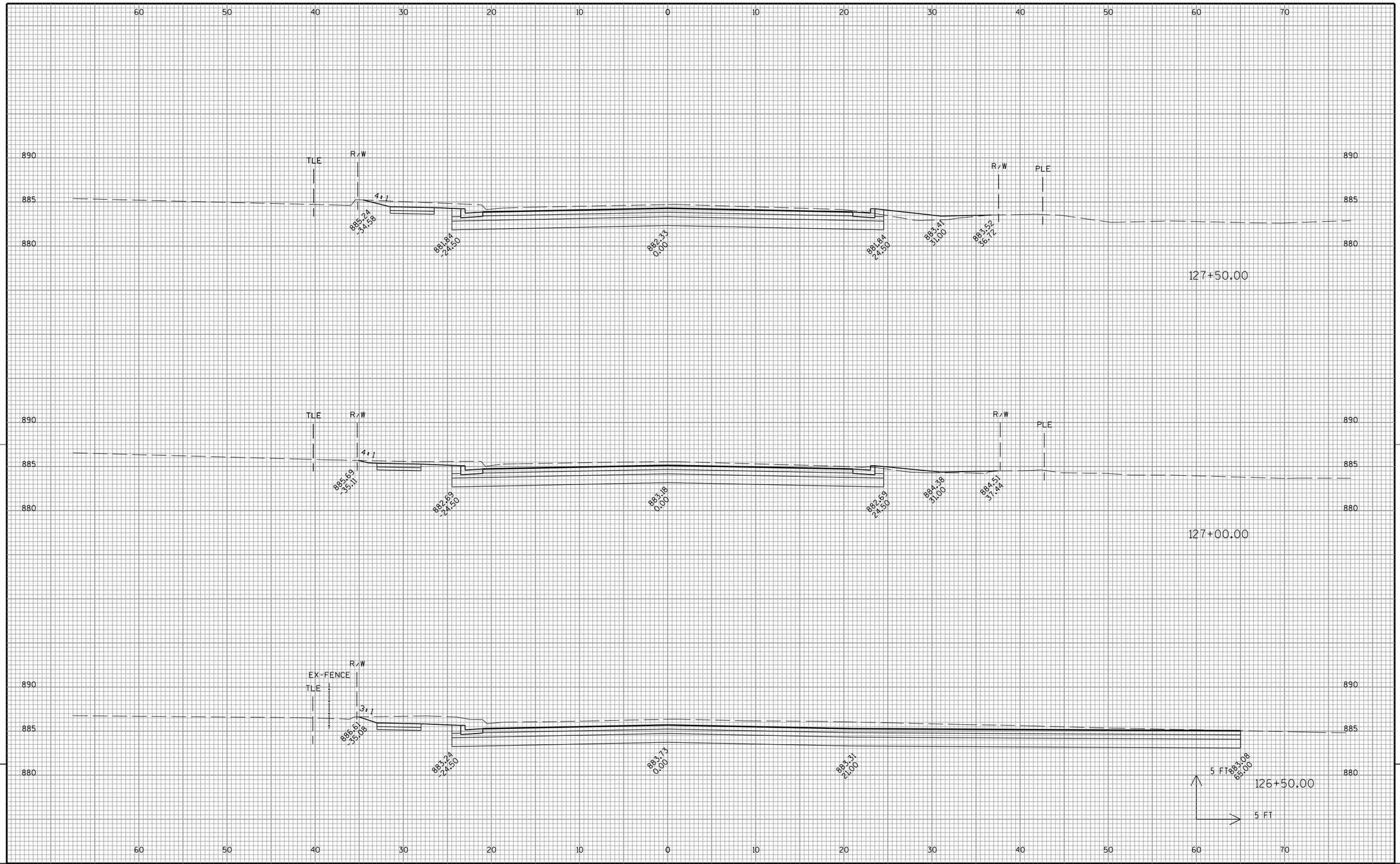
WISDOT/CADDS SHEET 21



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 210	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



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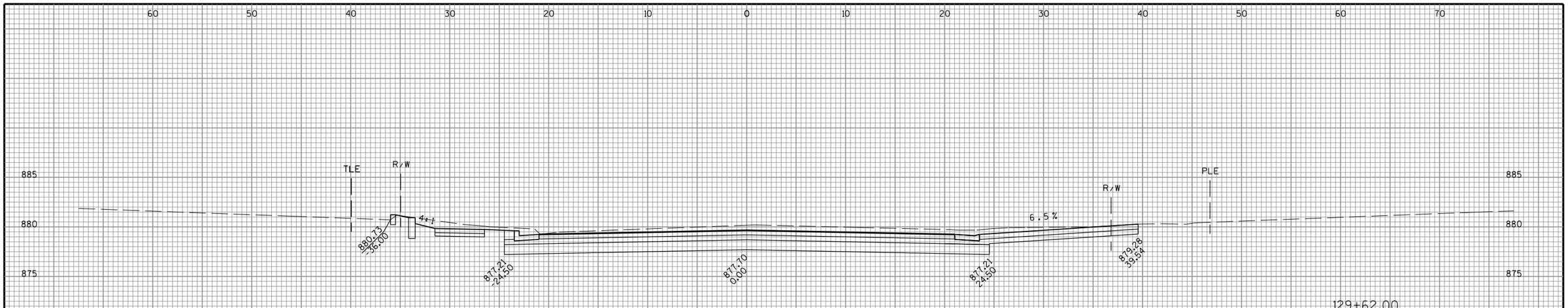
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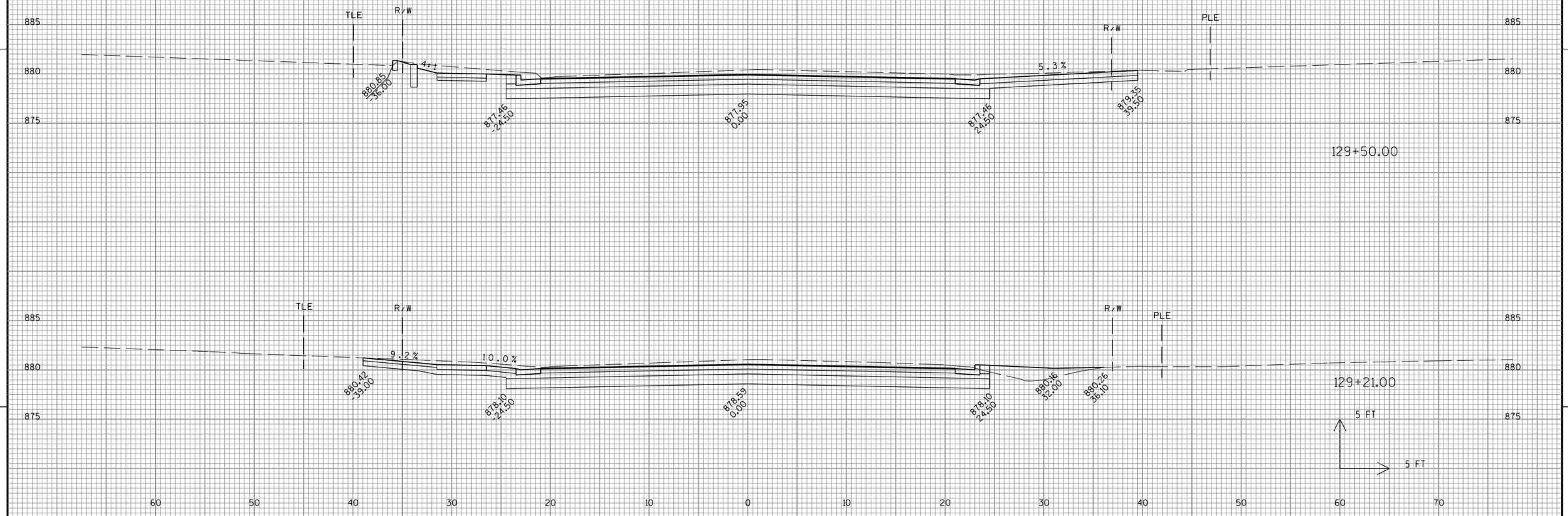
PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 211	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21

PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 212	E

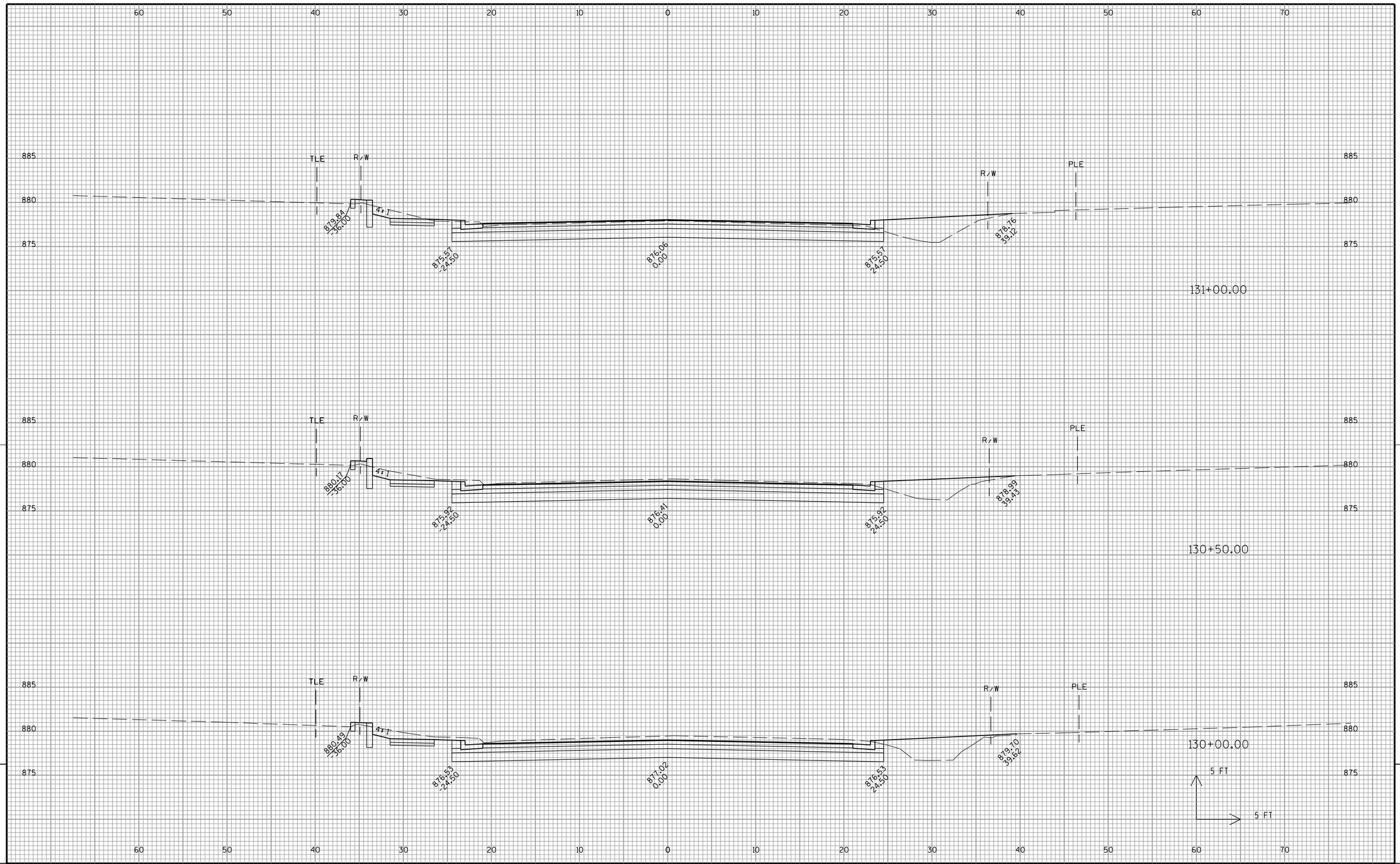




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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 213	E

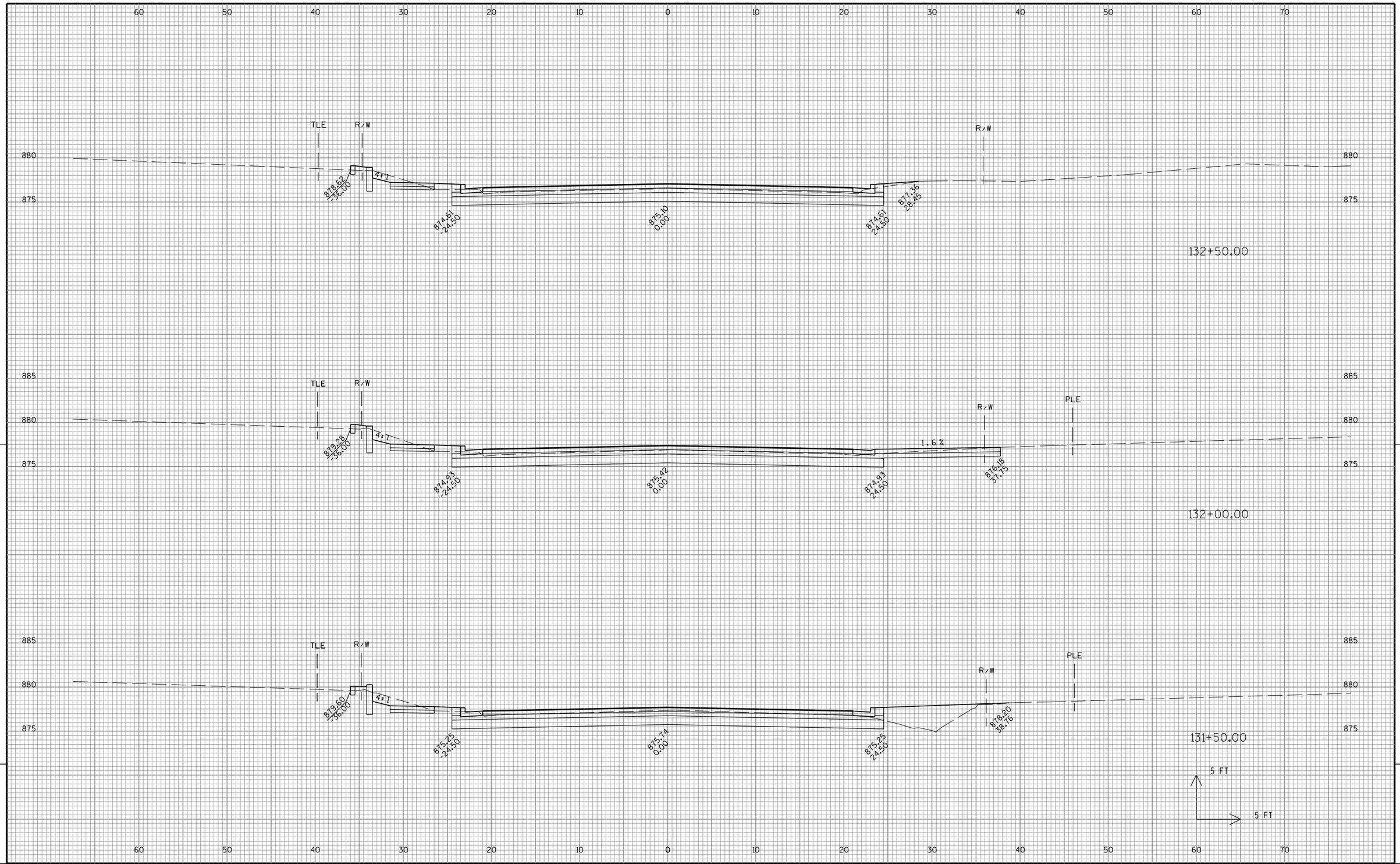


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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 214	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn
PLOT DATE : 1/27/2014
PLOT BY : GRAEF
PLOT NAME :
PLOT SCALE : 10.0000 ft / in.
WISDOT/CADDS SHEET 21



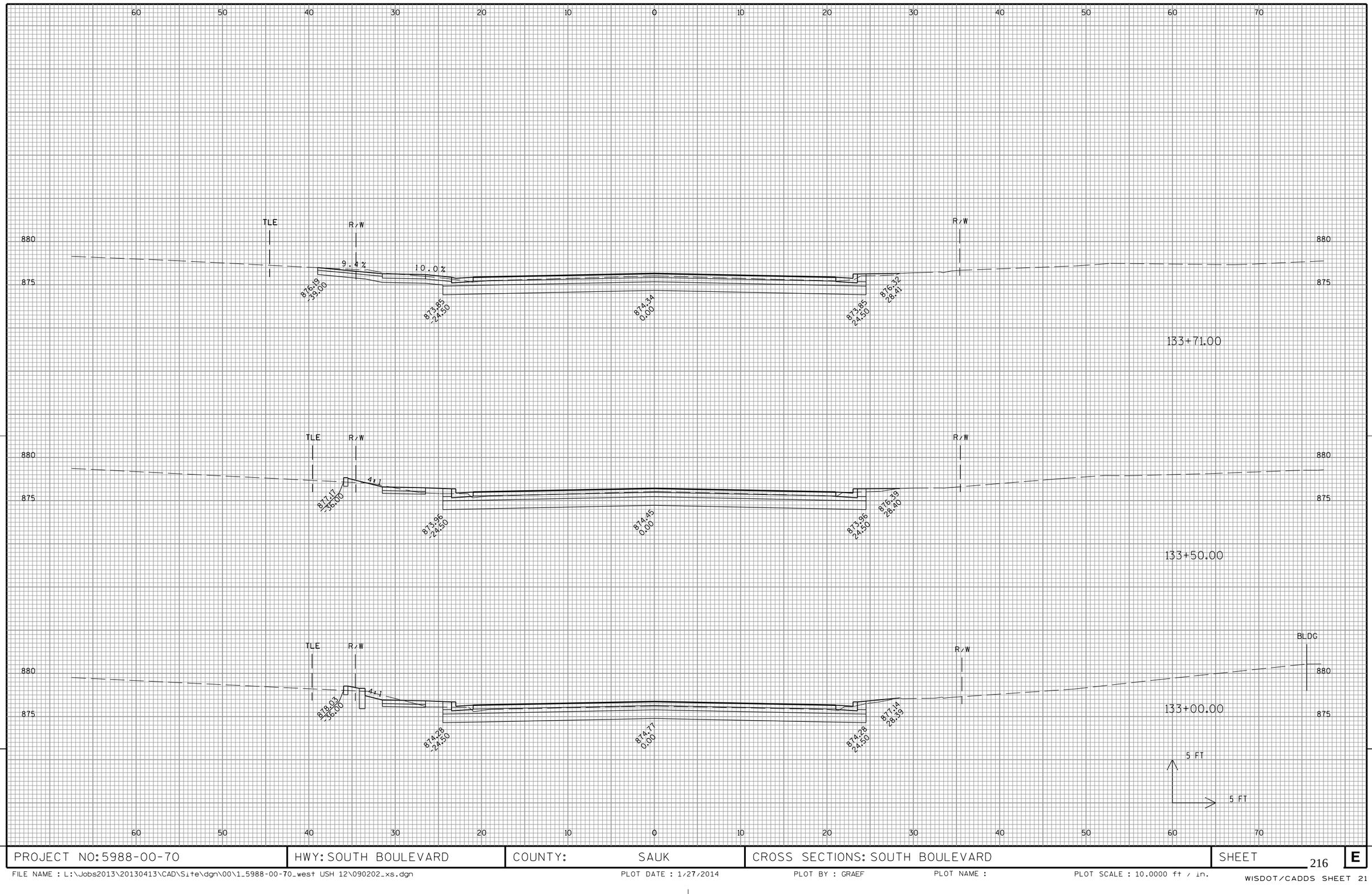
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 215	E

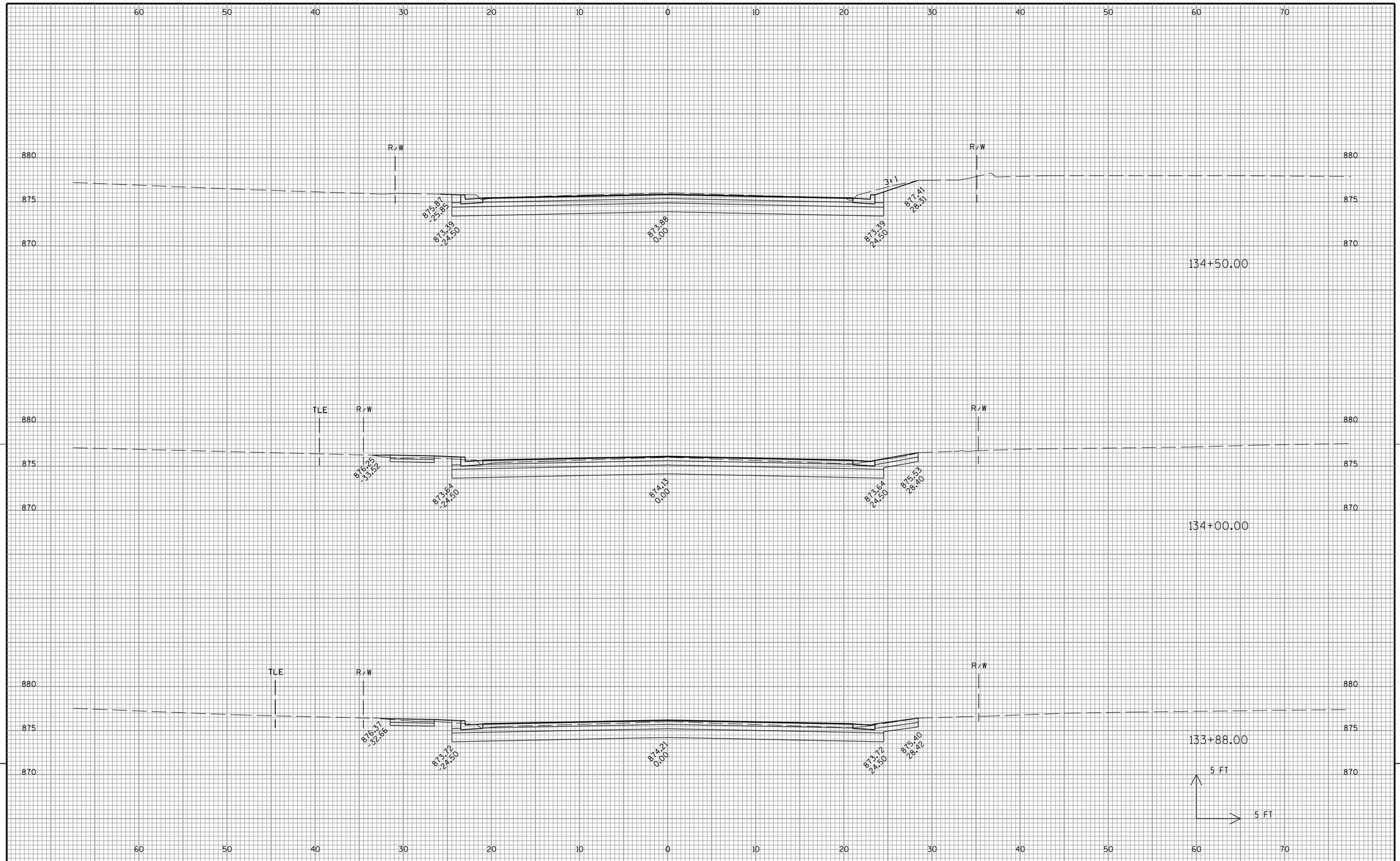
FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 216	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.



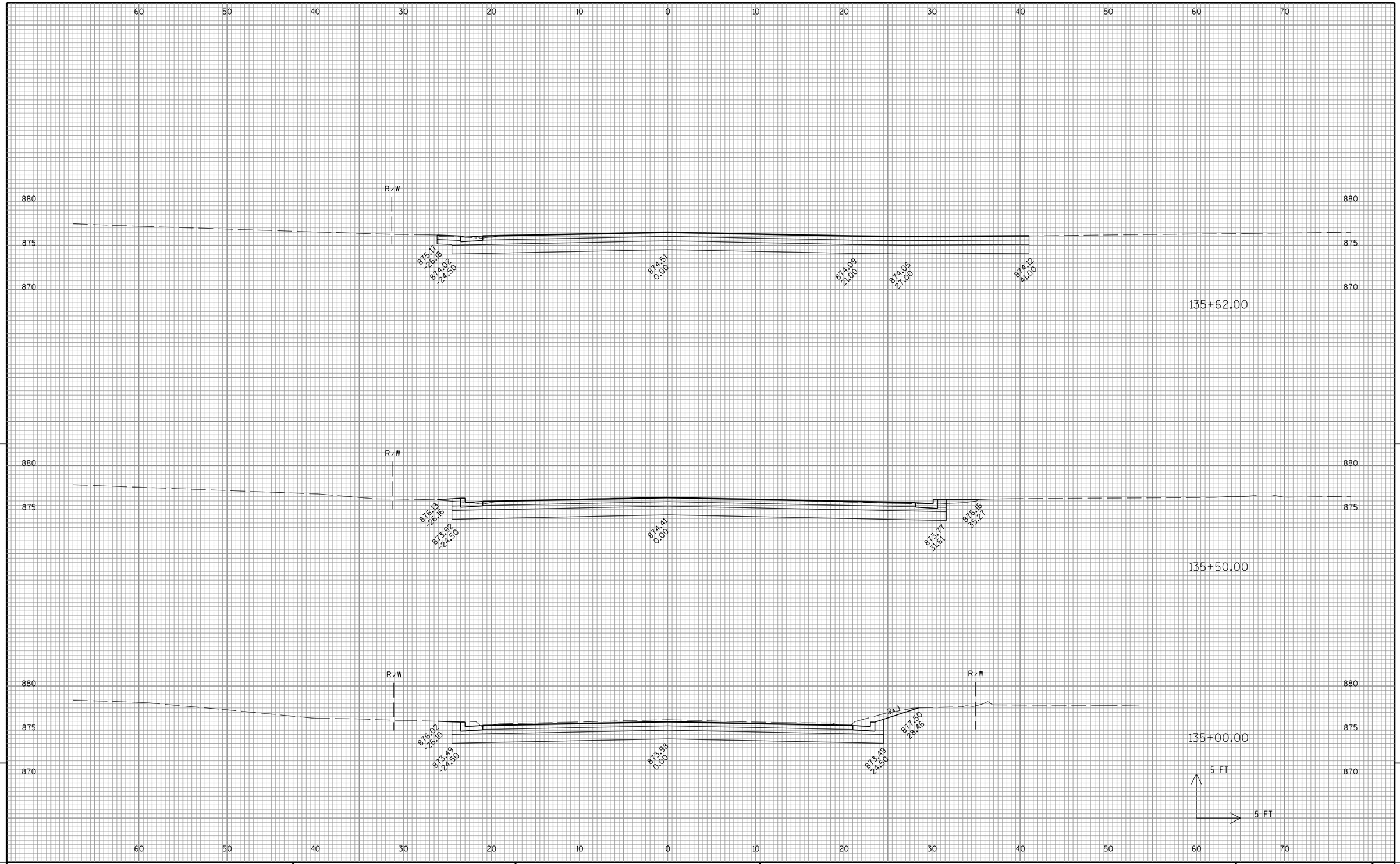
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 217	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



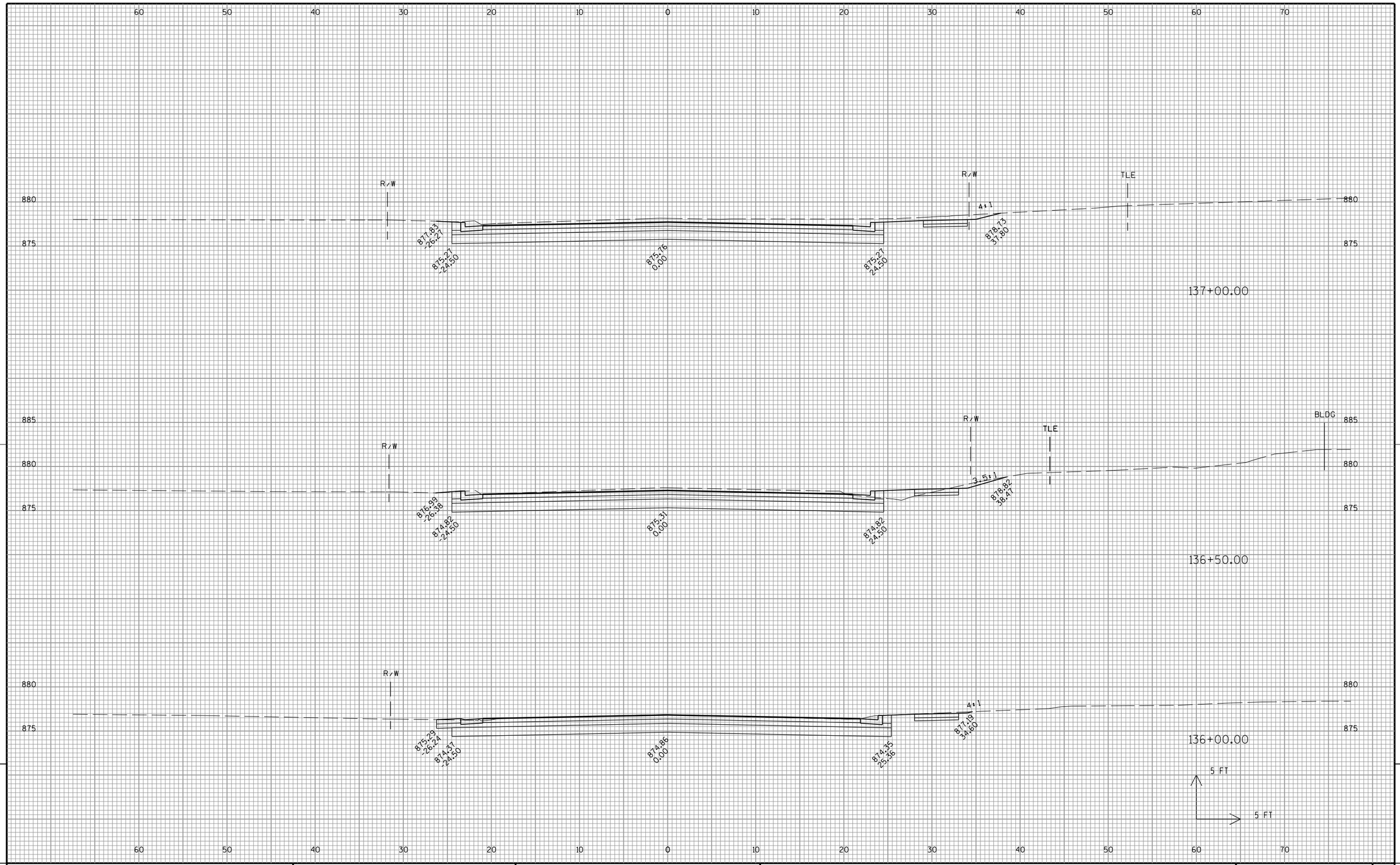
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PROJECT NO:5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 218	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 219	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21

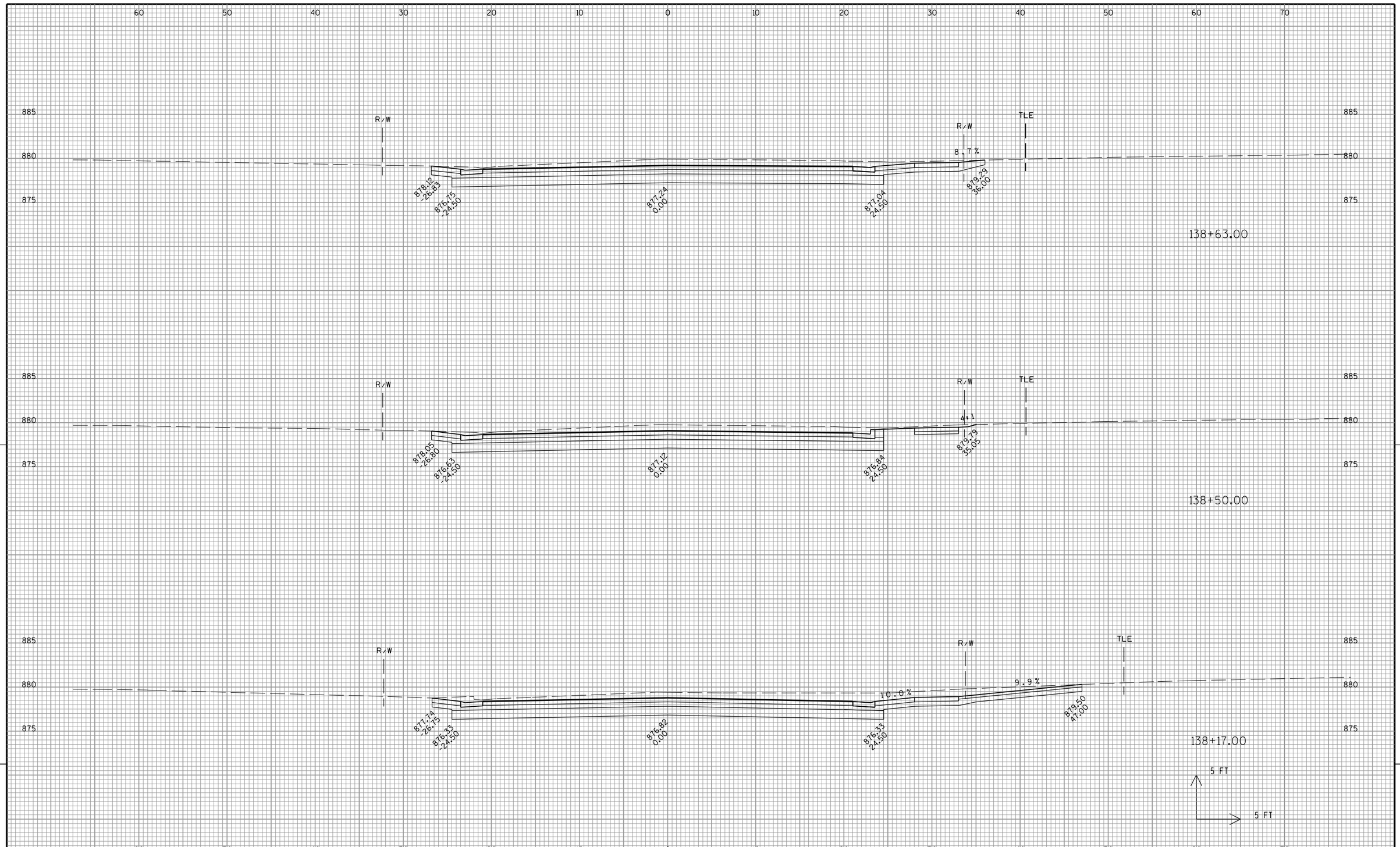
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 220	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



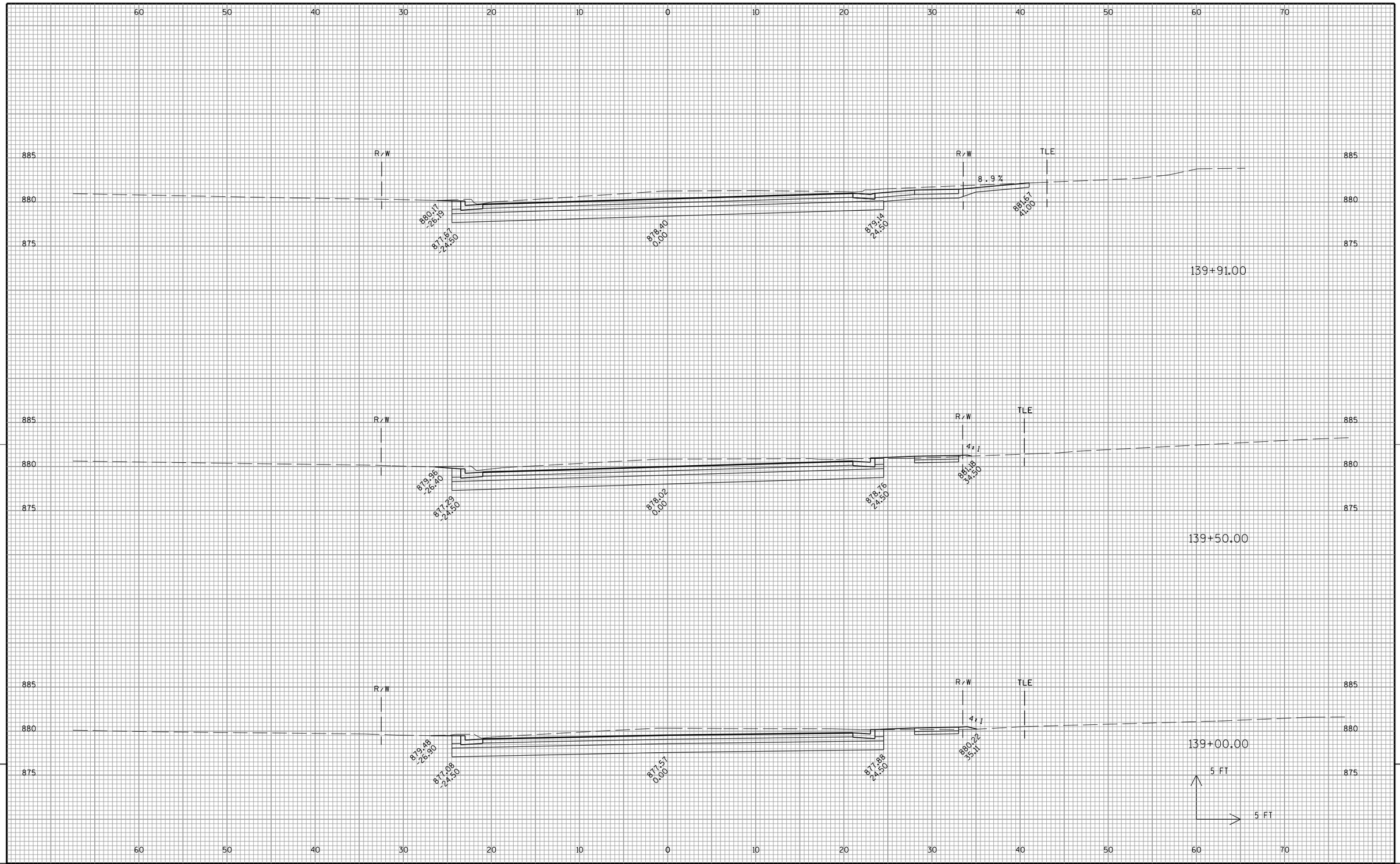
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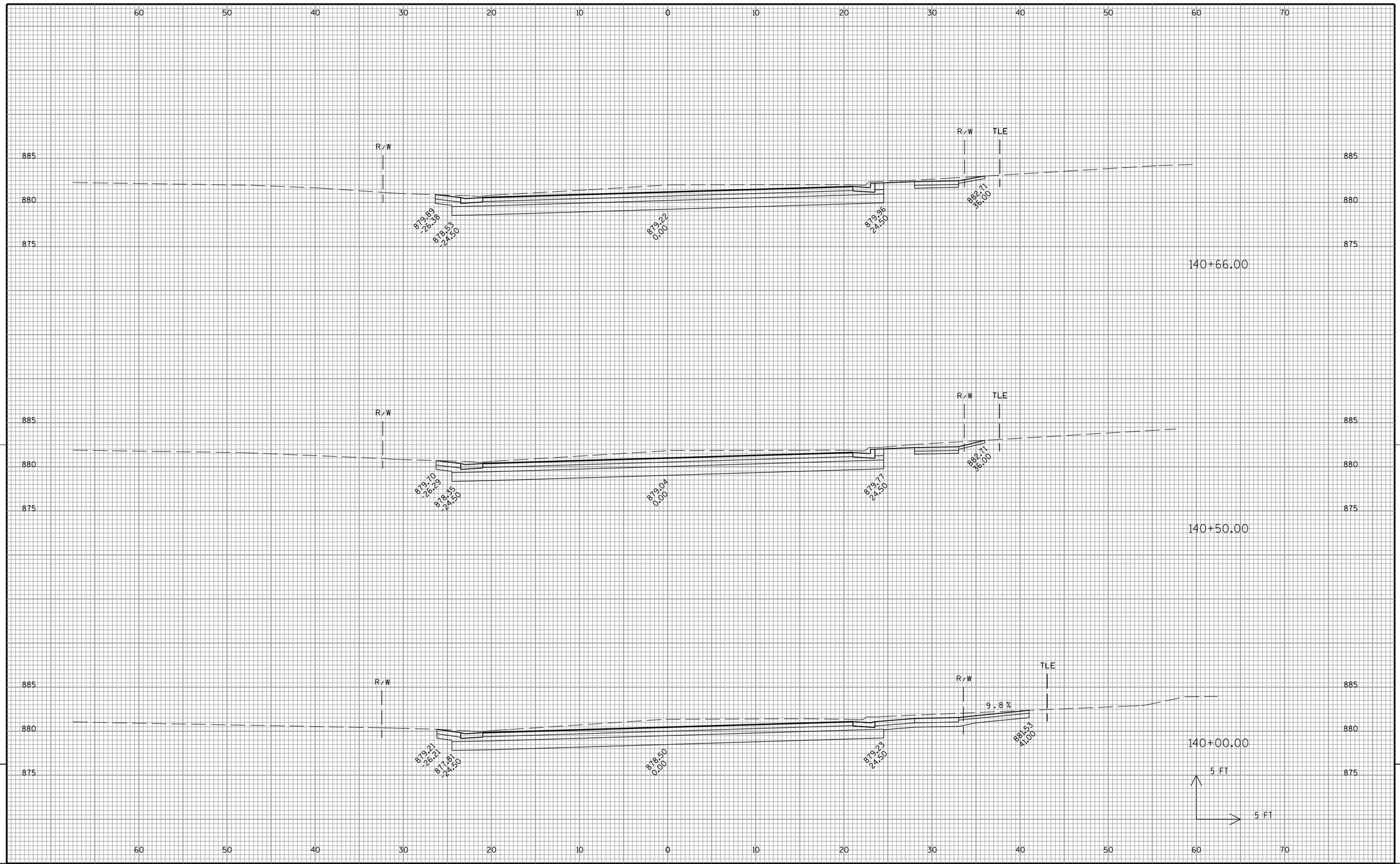
PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 221	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 222	E

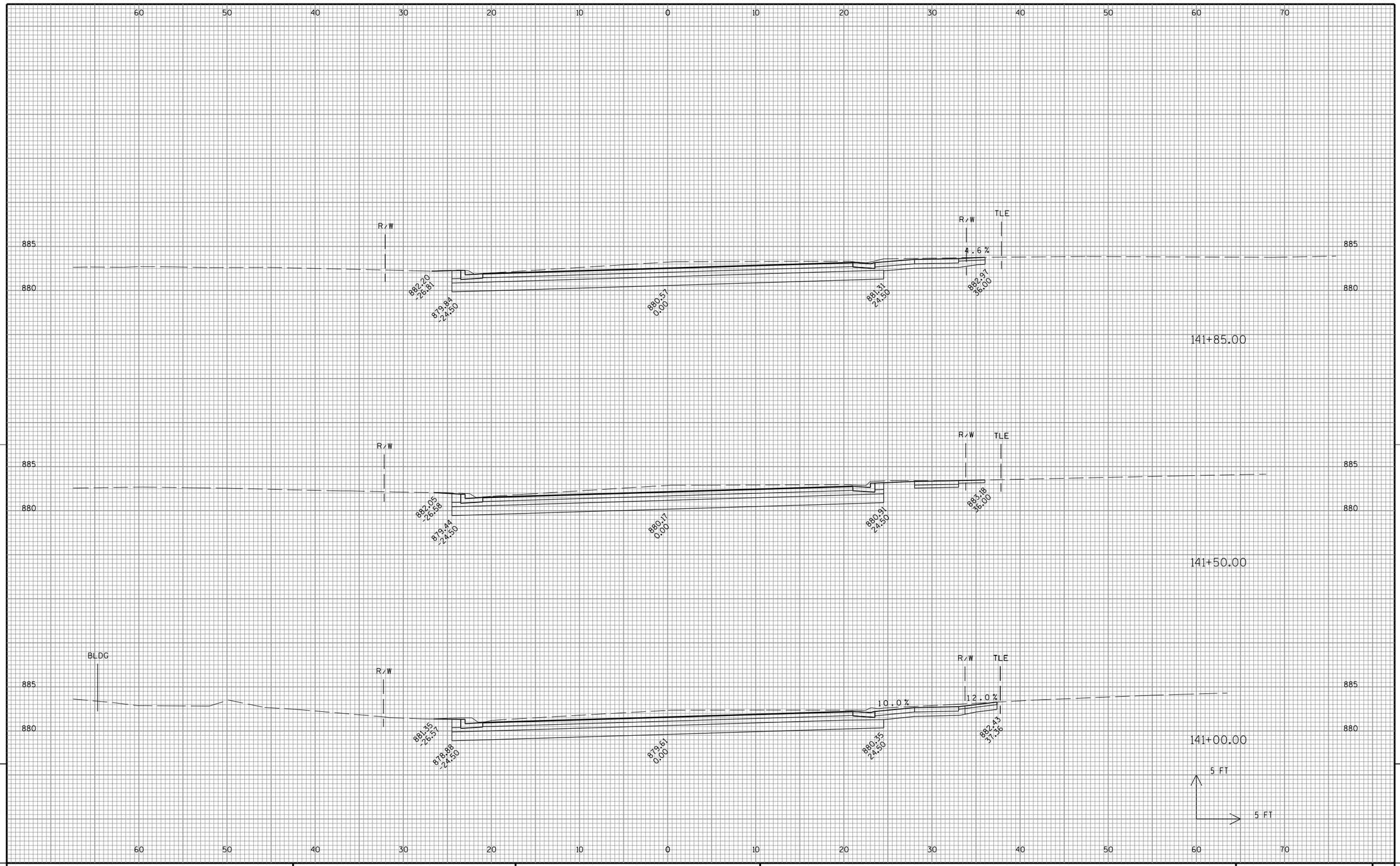


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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 223	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.
WISDOT/CADDS SHEET 21



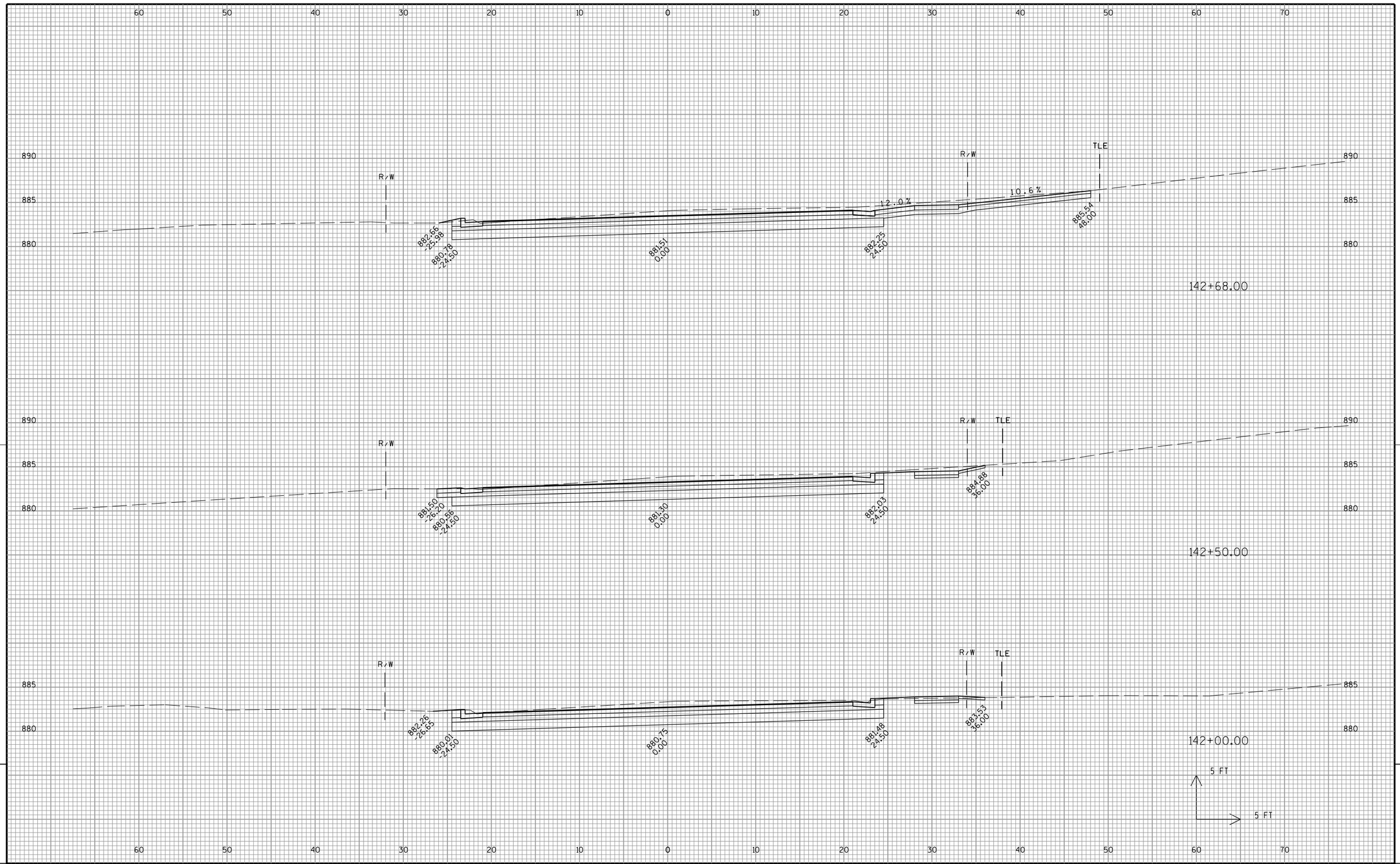
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PROJECT NO:5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 224	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



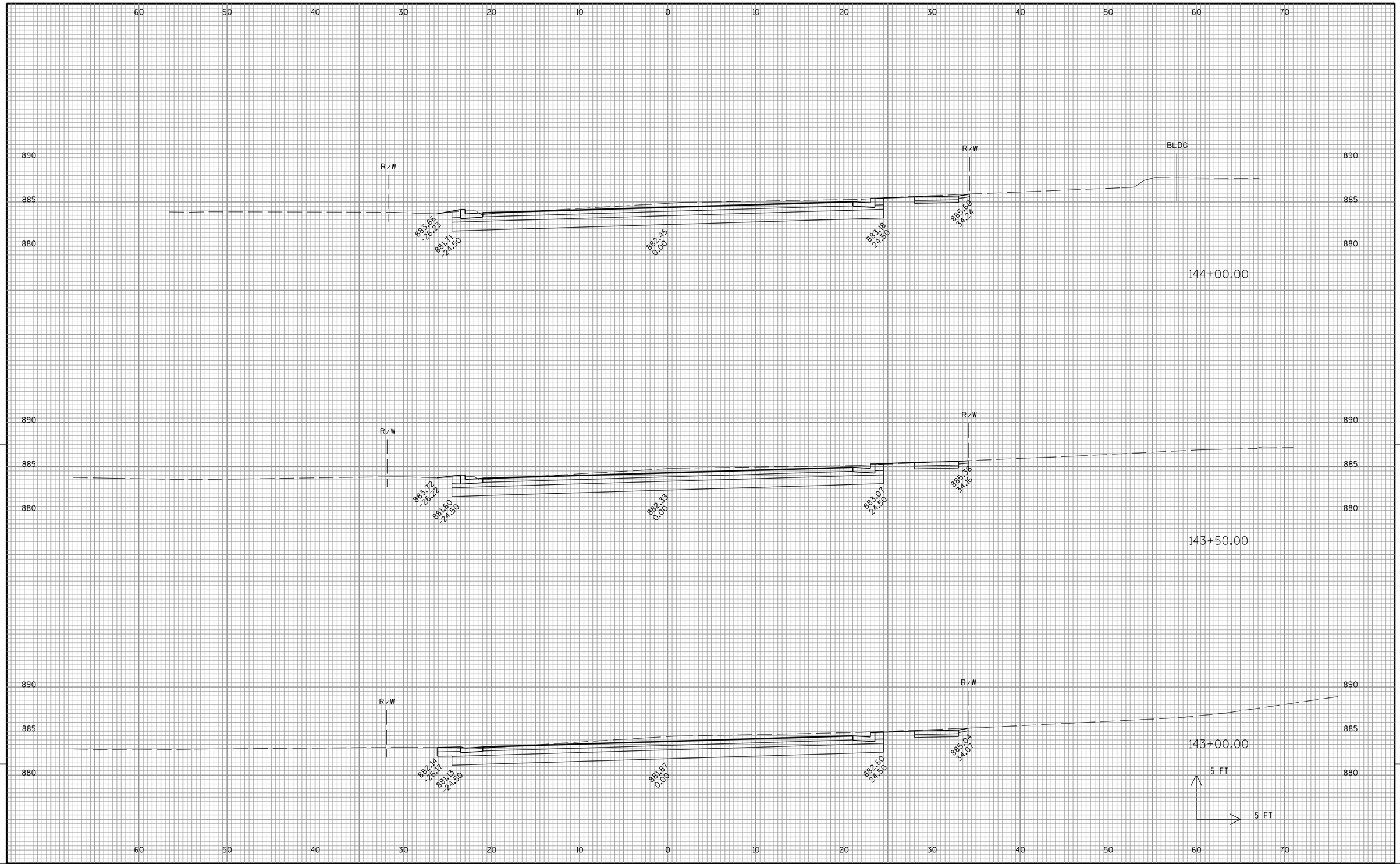
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 225	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

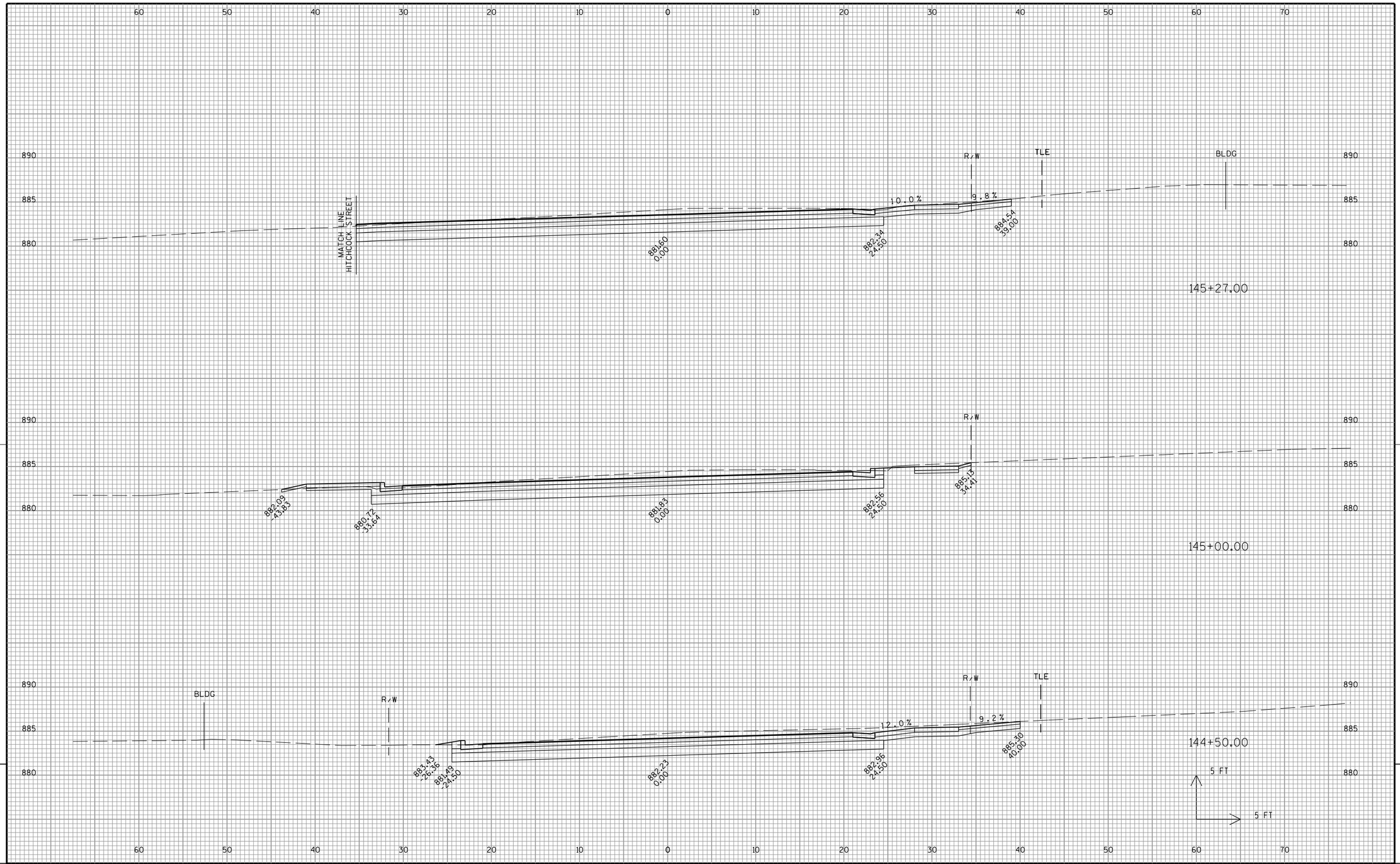
WISDOT/CADDS SHEET 21



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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 226	E



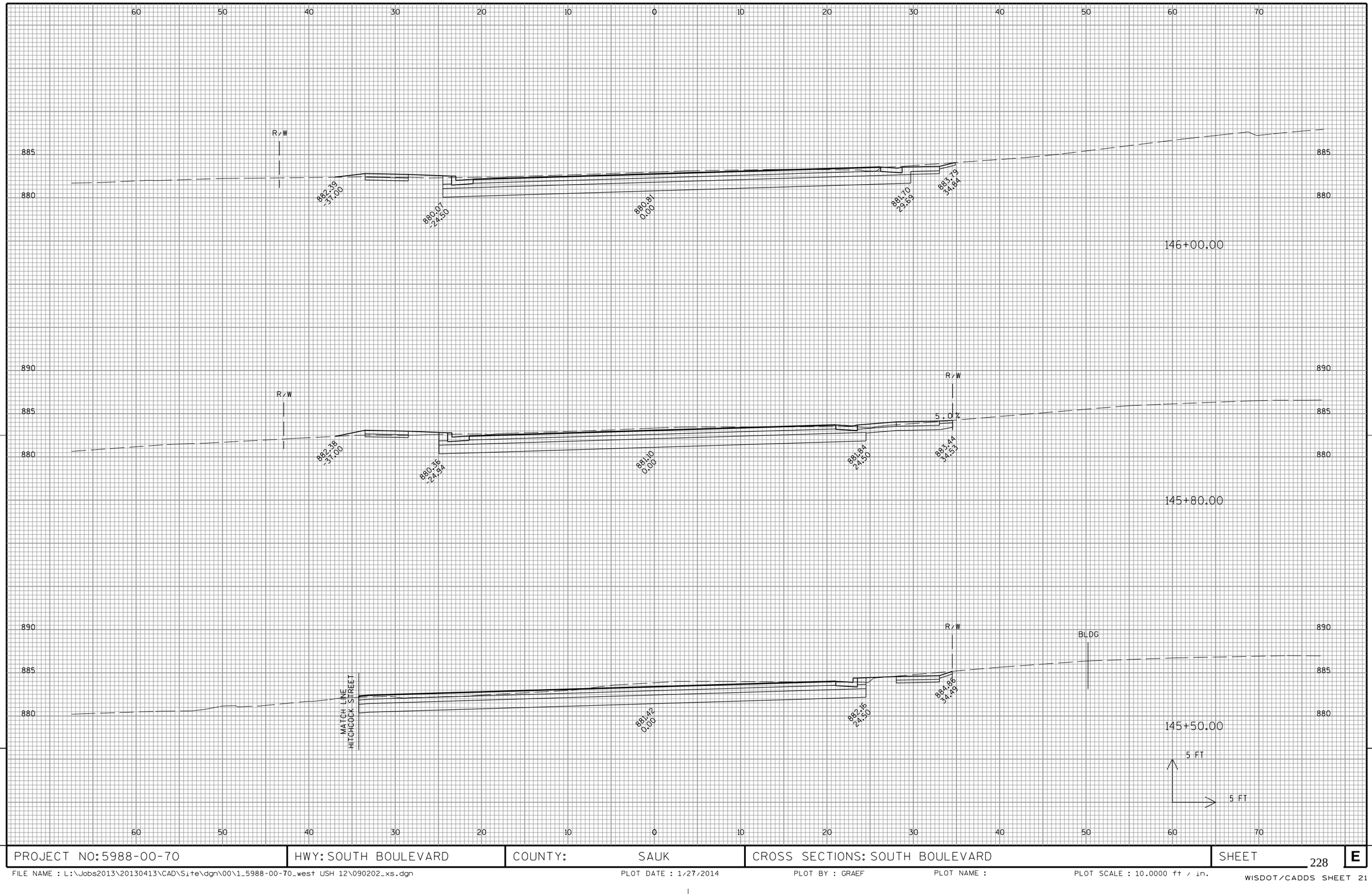
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 227	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



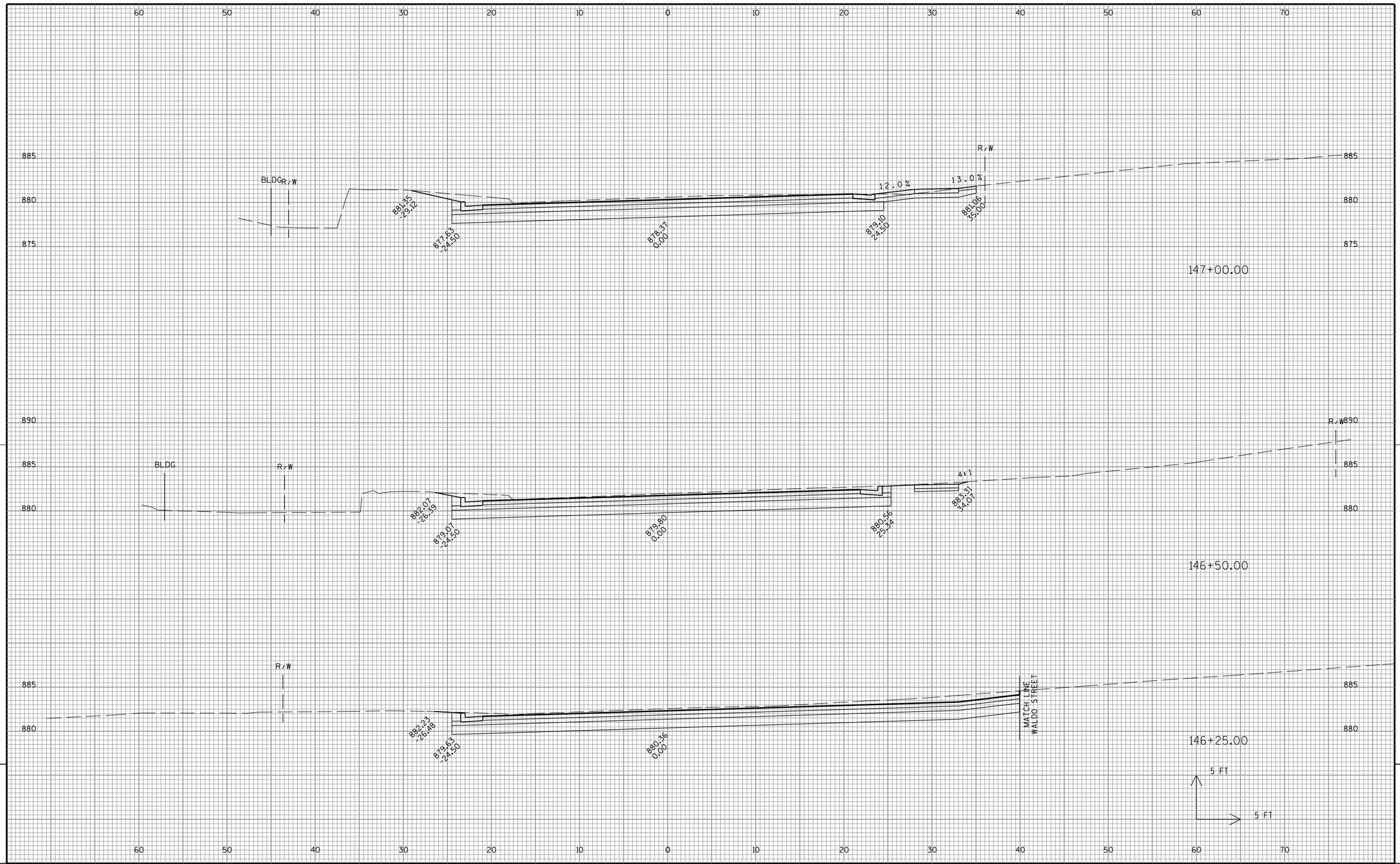
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 228	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



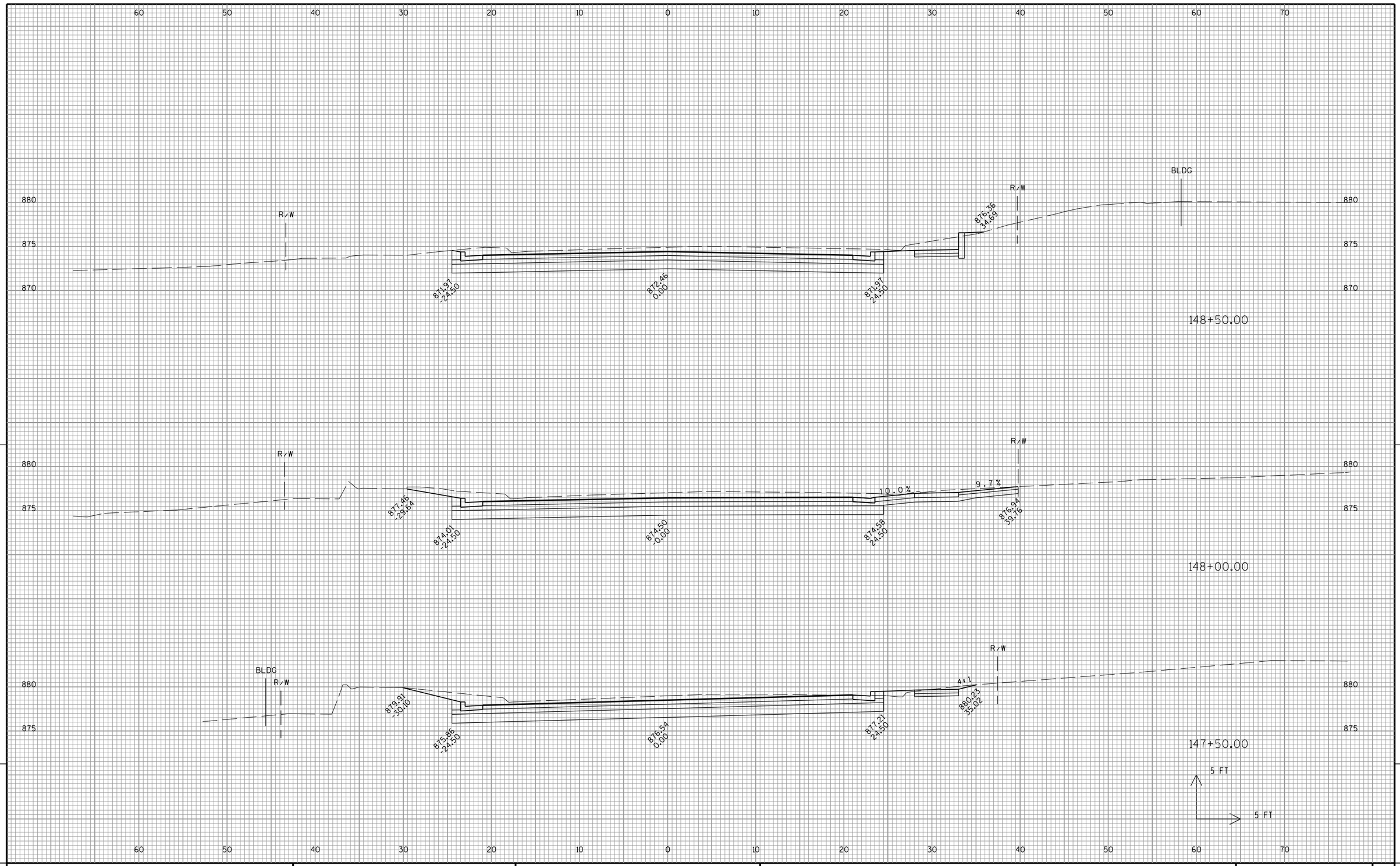
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 229	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

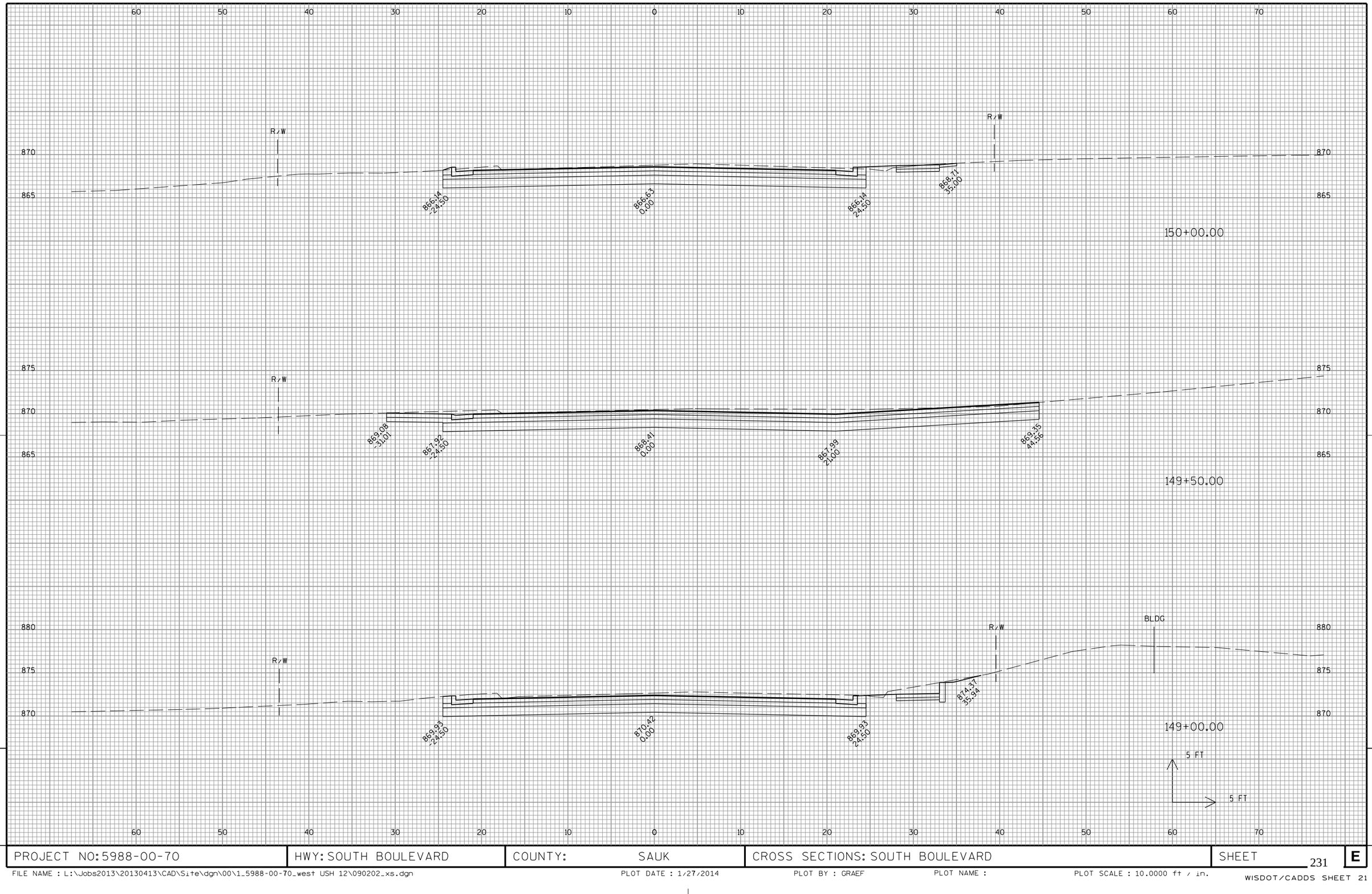
WISDOT/CADDS SHEET 21



PROJECT NO:5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 230	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



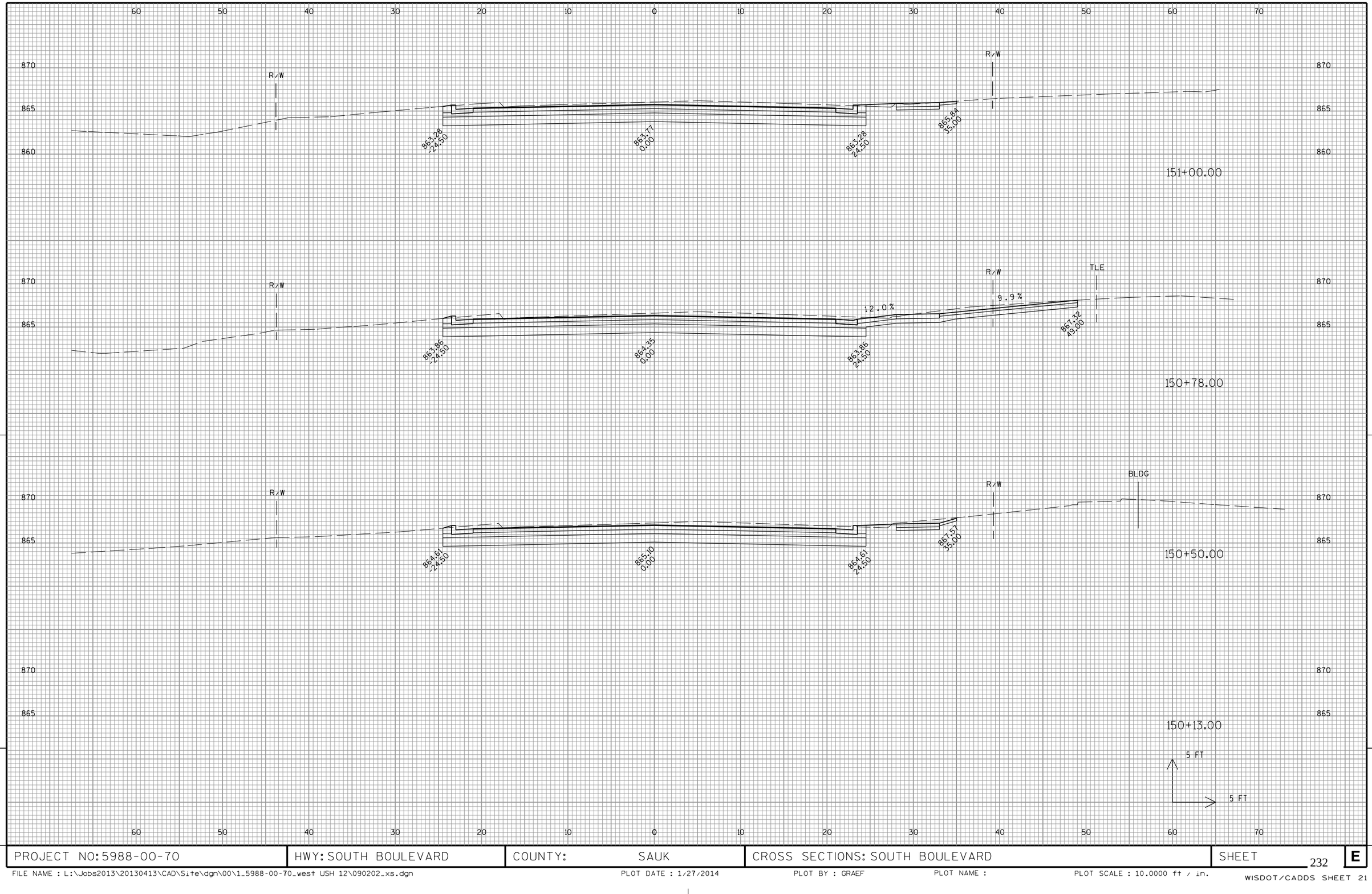
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 231	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

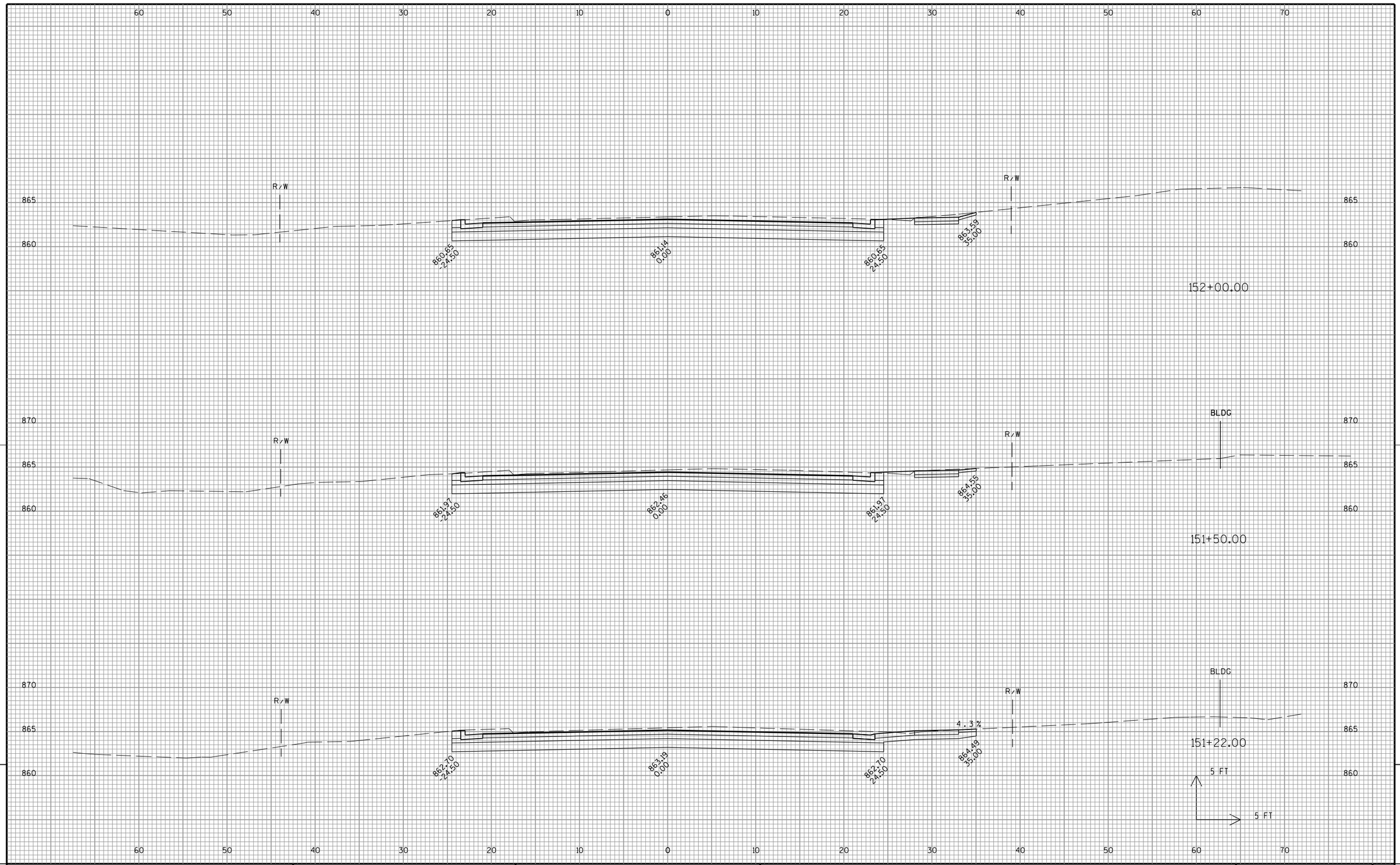
WISDOT/CADDS SHEET 21



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 232	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

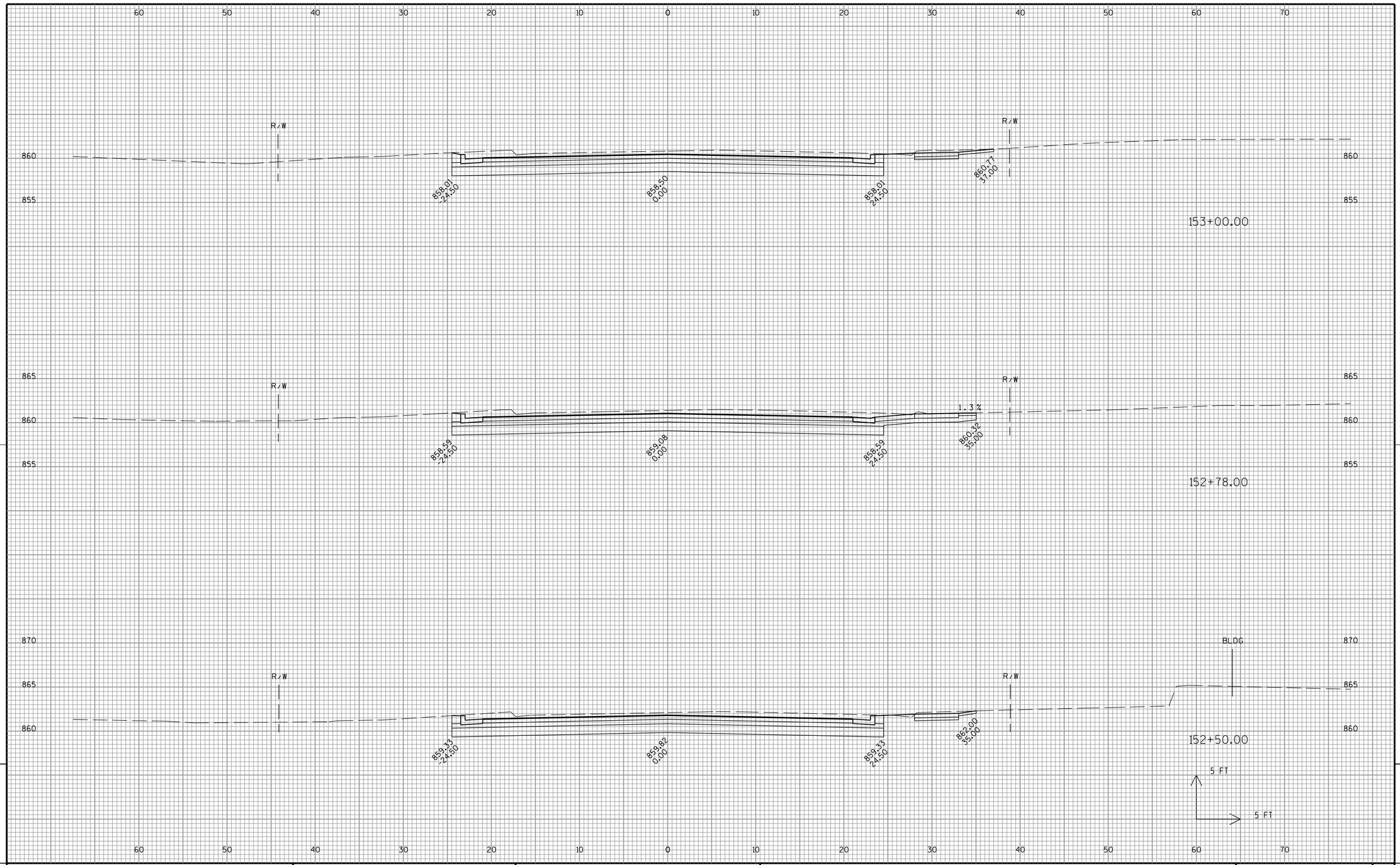
WISDOT/CADDS SHEET 21



PROJECT NO:5988-00-70	HWY:SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS:SOUTH BOULEVARD	SHEET 233	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



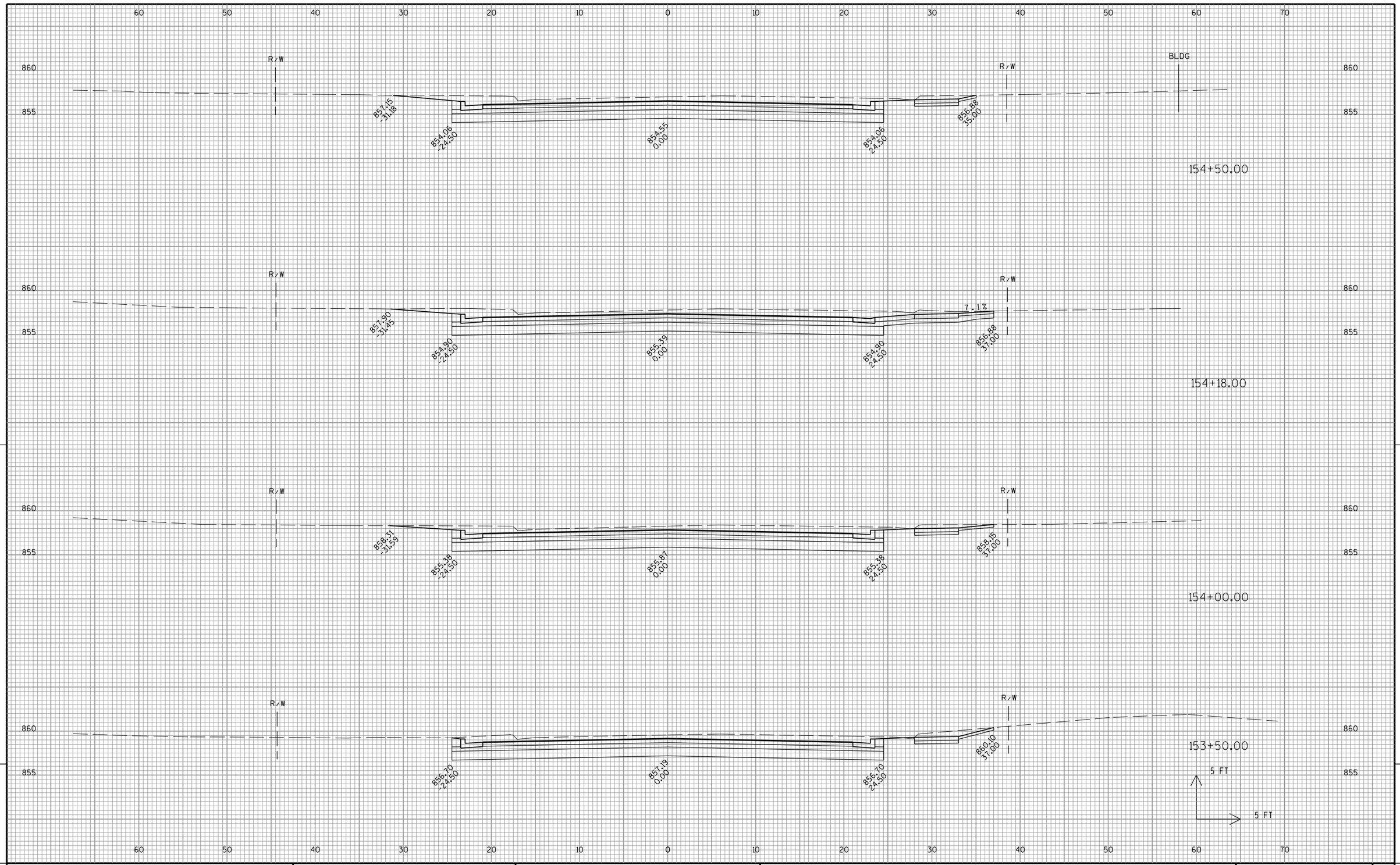
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 234	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



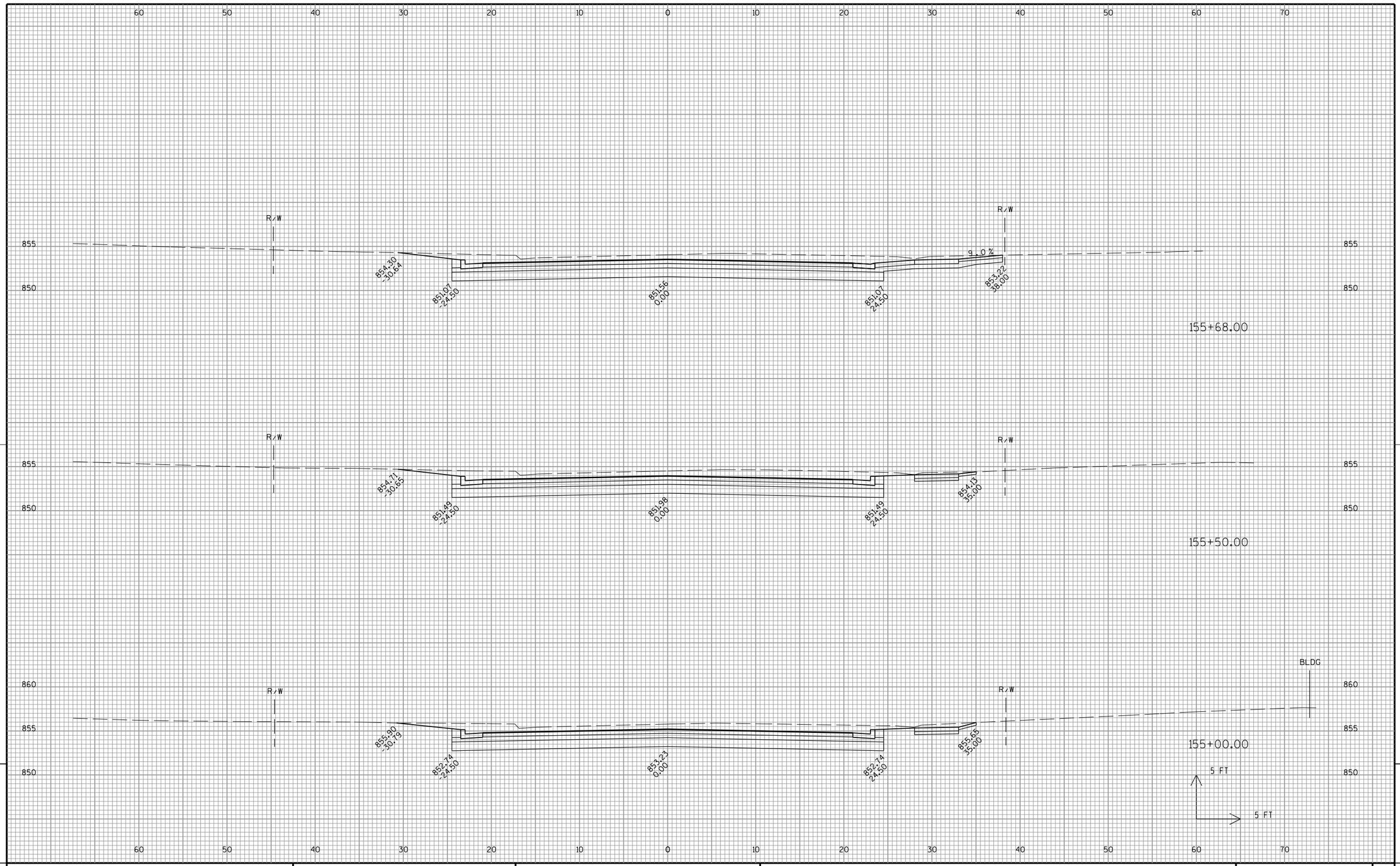
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PROJECT NO:5988-00-70	HWY:SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS:SOUTH BOULEVARD	SHEET 235	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



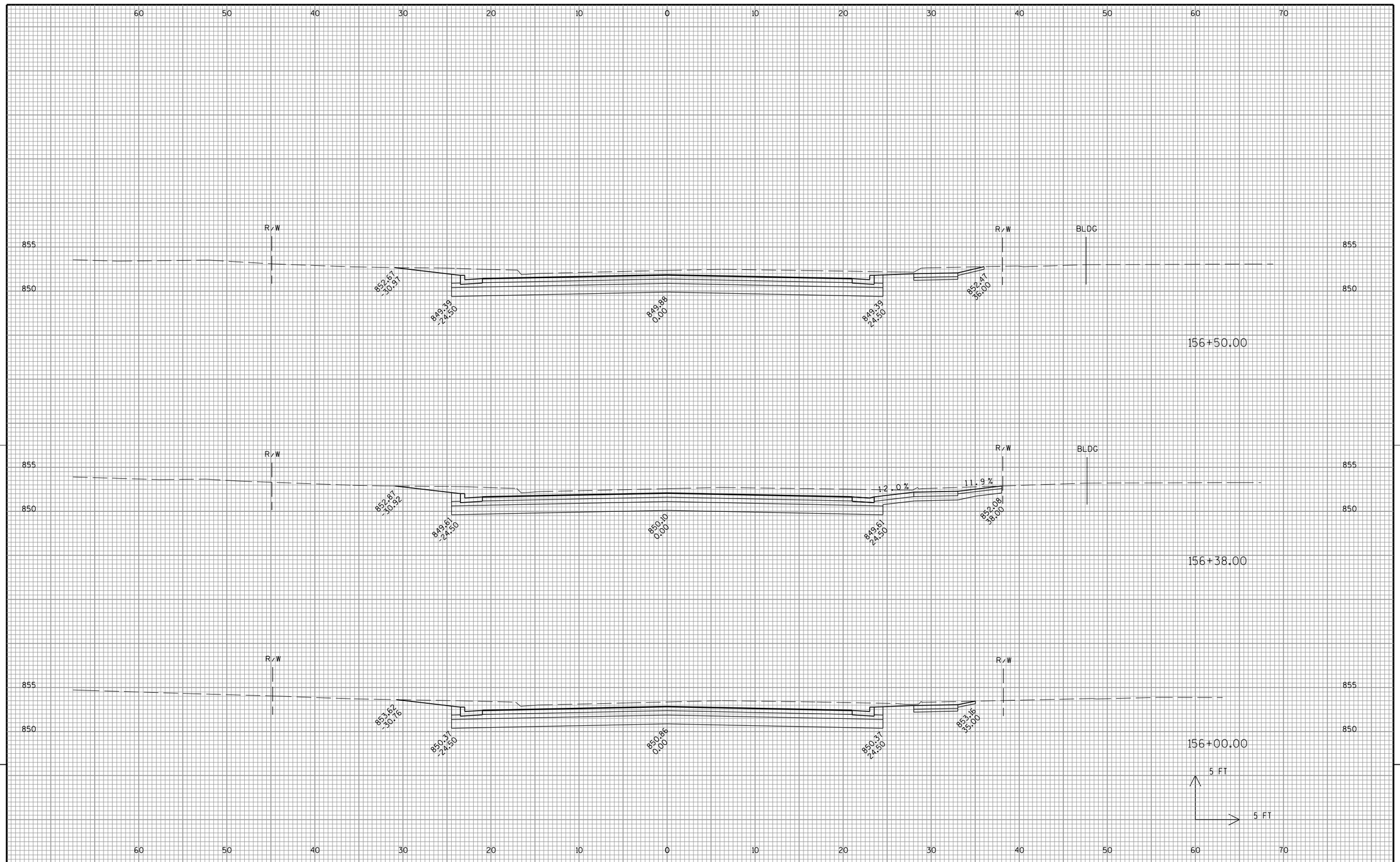
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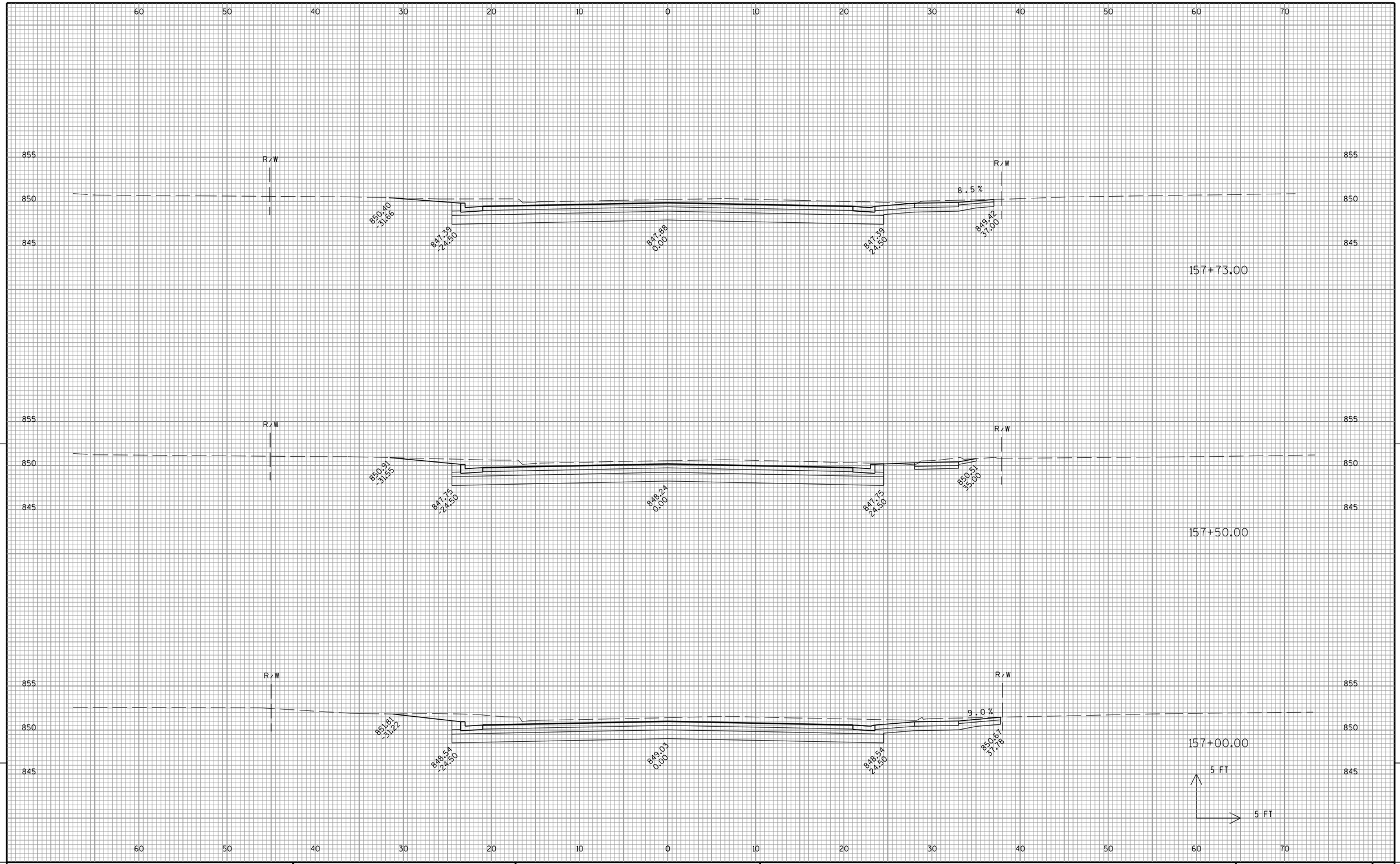
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FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 237	E



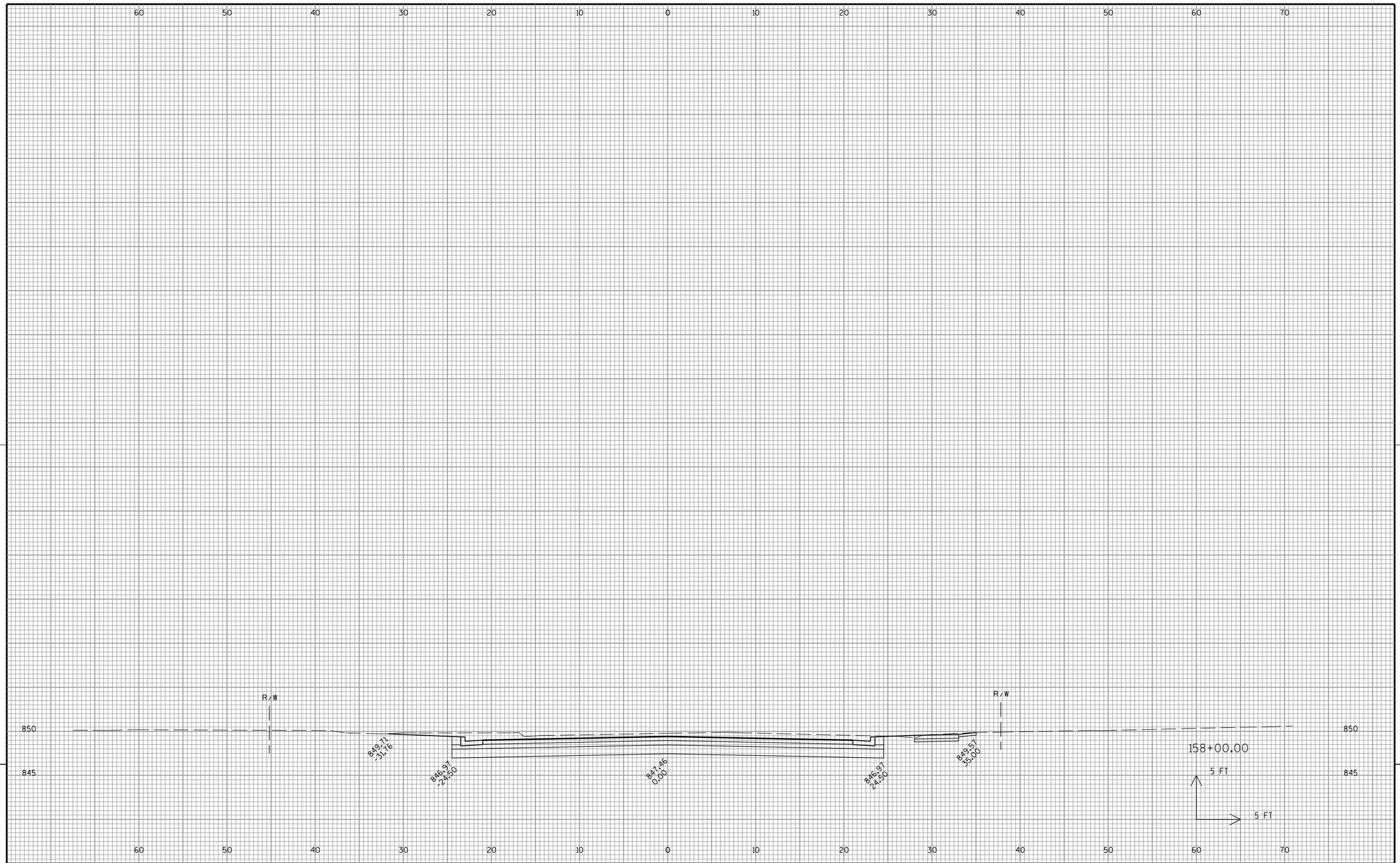
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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: SOUTH BOULEVARD	SHEET 238	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn | PLOT DATE : 1/27/2014 | PLOT BY : GRAEF | PLOT NAME : | PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



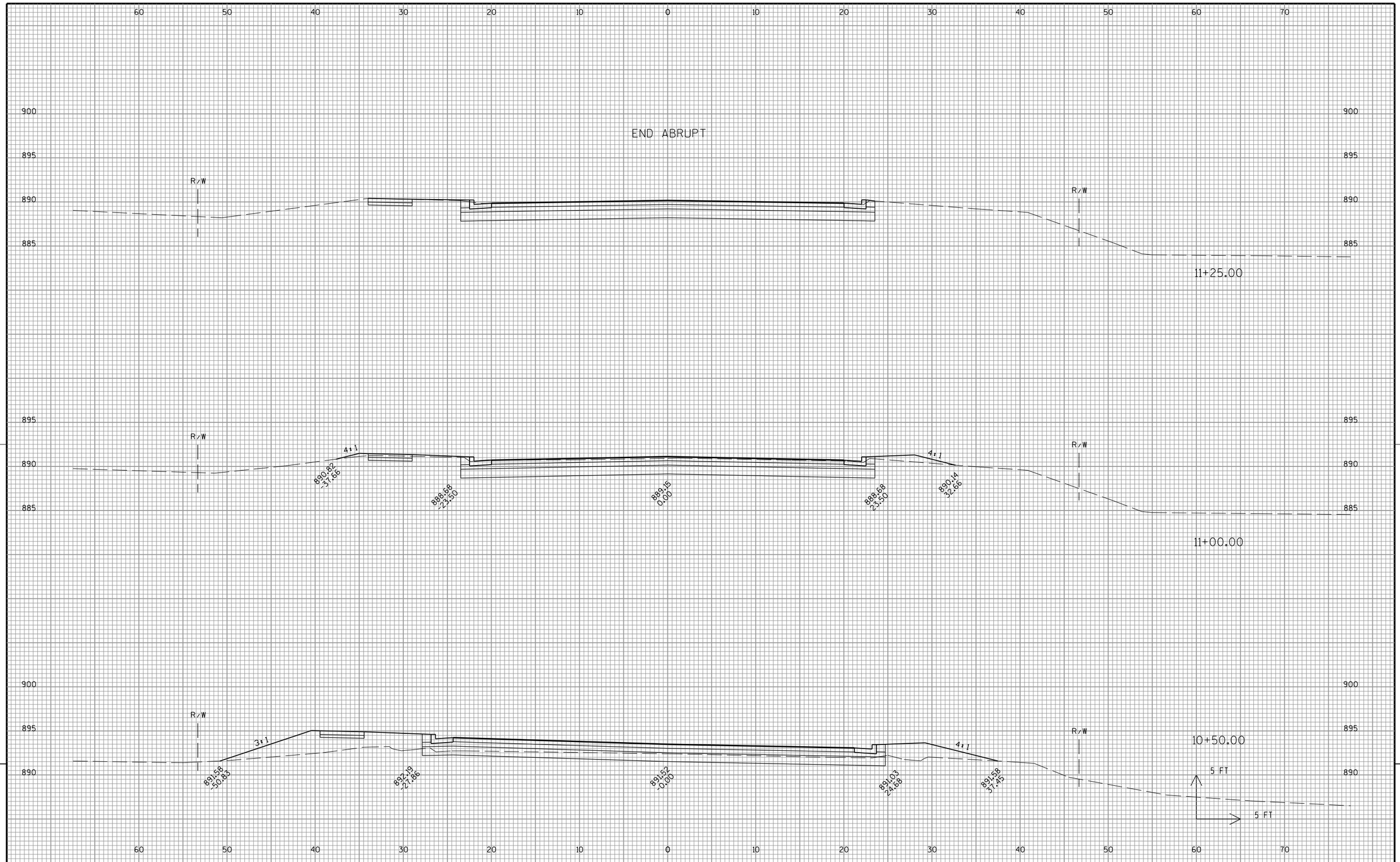
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PROJECT NO:5988-00-70	HWY:SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS:SOUTH BOULEVARD	SHEET 239	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090202_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: INDUSTRIAL COURT	SHEET 240	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090203_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21

60 50 40 30 20 10 0 10 20 30 40 50 60 70

END ABRUPT

R/W R/W

880 880

875 875

21+00.00

R/W R/W

878.72
24.00

877.98
19.50

878.39
0.00

877.98
20.50

879.44
28.00

880 880

875 875

20+75.00

R/W R/W

881.08
30.65

879.22
21.07

879.64
0.00

879.22
20.88

881.61
29.00

880 880

875 875

20+50.00

R/W

882.12
44.18

880.46
30.78

880.38
0.00

880.07
27.80

880 880

875 875

20+35.00

5 FT

5 FT

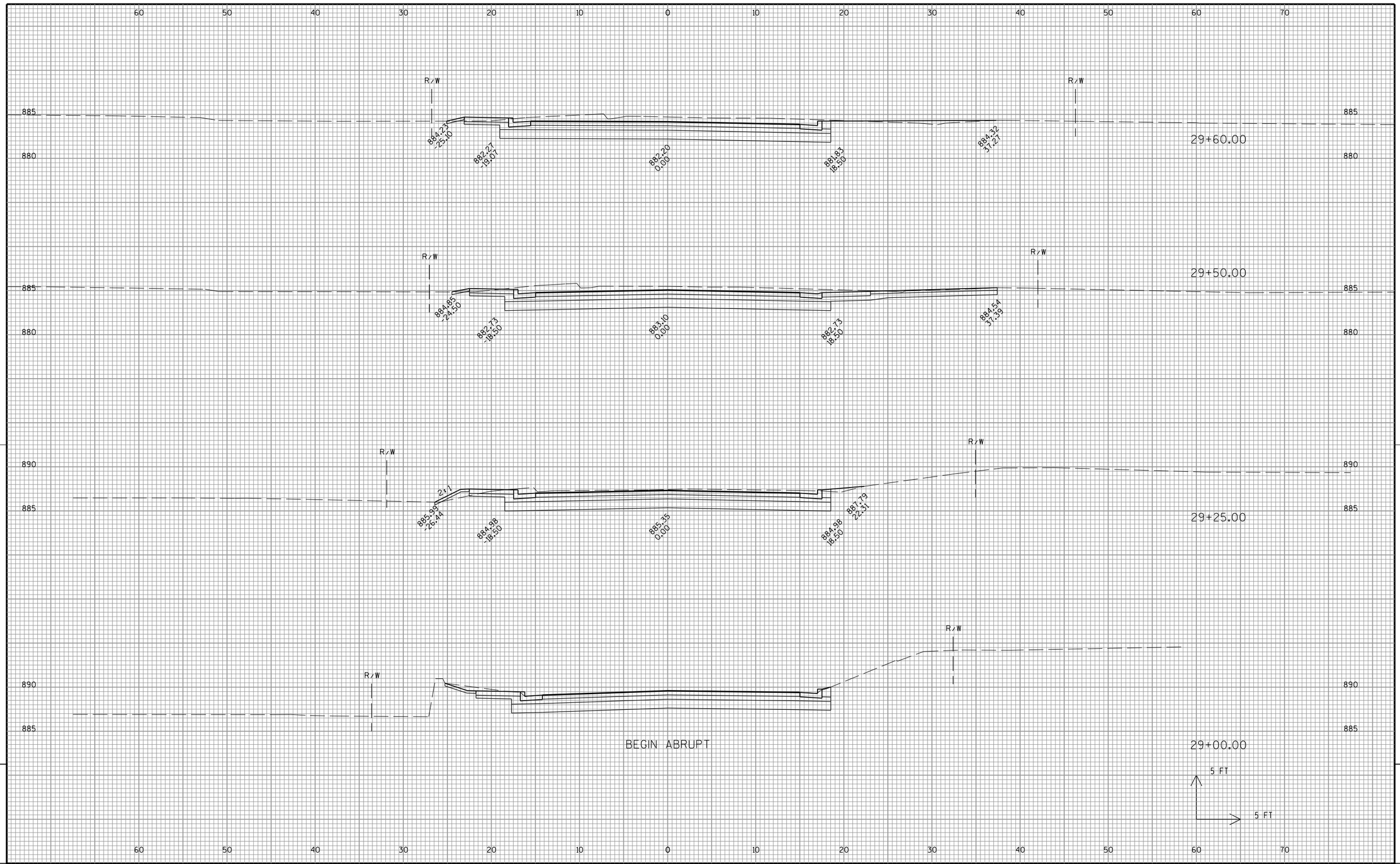
60 50 40 30 20 10 0 10 20 30 40 50 60 70

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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: HITCHCOCK STREET	SHEET 241	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090204_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21



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PROJECT NO: 5988-00-70	HWY: SOUTH BOULEVARD	COUNTY: SAUK	CROSS SECTIONS: WALDO STREET	SHEET 242	E

FILE NAME : L:\Jobs2013\20130413\CAD\Site\dgn\00\1_5988-00-70_west USH 12\090205_xs.dgn PLOT DATE : 1/27/2014 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 ft / in.

WISDOT/CADDS SHEET 21

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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