MAD

DECEMBER 2019

PROJECT ID: 5992-09-26
WITH: 5992-09-27

COUNTY: DANE

05

ORDER OF SHEETS

Section No. 1 Title
Section No. 2 Typical Sections and Details (Includes Erosion Control)
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 = 360

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

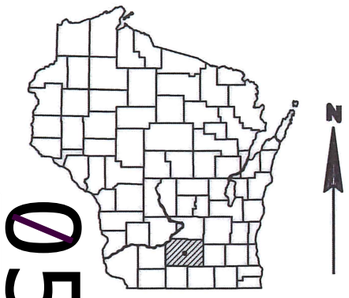
CITY OF MADISON, COTTAGE GROVE ROAD

NORTH STAR DR. TO SPRECHER ROAD

CTH BB

DANE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5992-09-26	WISC 2019733	1
5992-09-27	————	—



STATE PROJECT NUMBER
5992-09-26
ROADWAY

STATE PROJECT NUMBER
5992-09-27
LOCAL UTILITIES
(WATER MAIN)

DESIGN DESIGNATION
COTTAGE GROVE RD

A.A.D.T. (2018)	=	15,100
A.A.D.T. (2038)	=	19,950
D.H.V. (2038)	=	1,995
D.D.	=	90/10
T.	=	4.3%
DESIGN SPEED	=	40 MPH
ESALS	=	1,200,000

CONVENTIONAL SYMBOLS

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

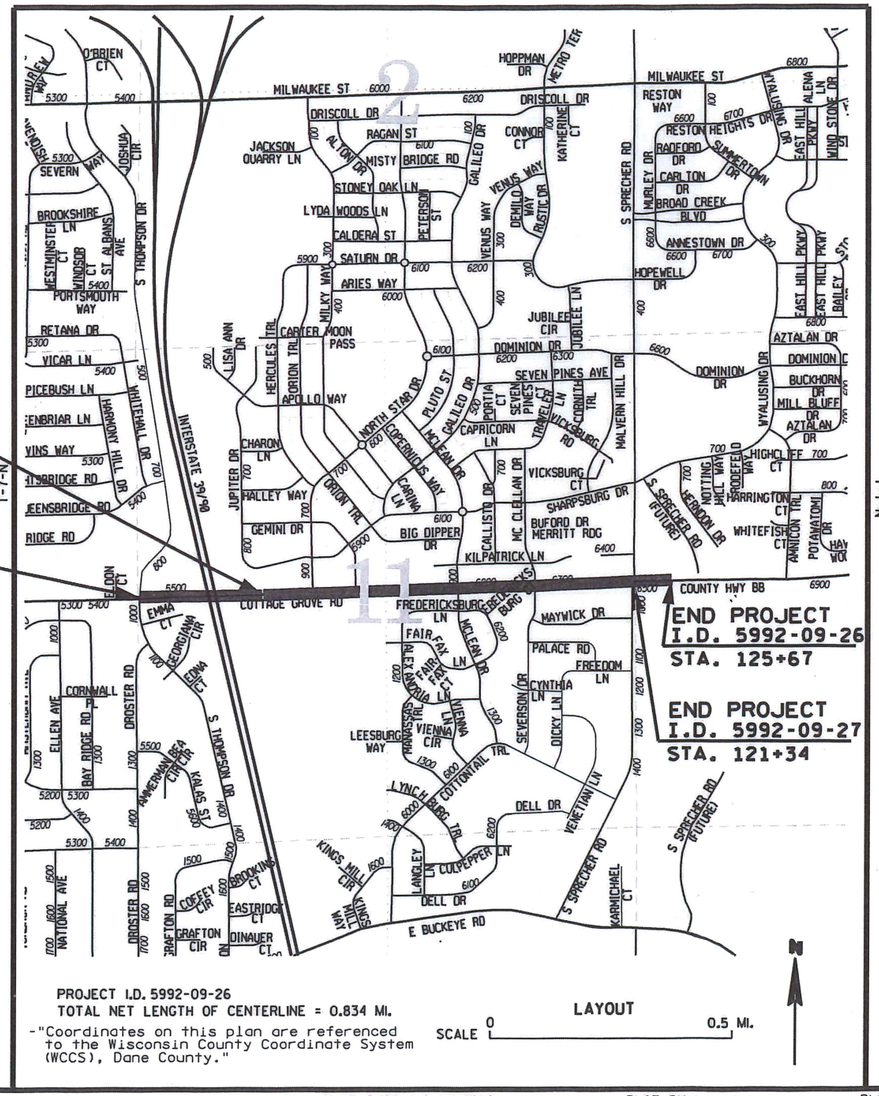
PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

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

BEGIN PROJECT
I.D. 5992-09-26
STA. 81+62

BEGIN PROJECT
I.D. 5992-09-27
STA. 68+90

R-10-E



END PROJECT
I.D. 5992-09-26
STA. 125+67

END PROJECT
I.D. 5992-09-27
STA. 121+34

PROJECT I.D. 5992-09-26
TOTAL NET LENGTH OF CENTERLINE = 0.834 MI.

-"Coordinates on this plan are referenced to the Wisconsin County Coordinate System (WCCS), Dane County."

LAYOUT
SCALE 0 0.5 MI.

GEOMETRICS AND TRAFFIC CONTROL
DESIGNED BY: CITY OF MADISON

WISCONSIN
MARK S.
WINTER
E-39453
MADISON
WI
9-19-19
PROFESSIONAL ENGINEER

WATERMAIN
DESIGNED BY: CITY OF MADISON

WISCONSIN
PETER E.
HOLMGREN
E-42156
MADISON
WI
9/19/2019
PROFESSIONAL ENGINEER

STREET LIGHTING/TRAFFIC SIGNALS
DESIGNED BY: CITY OF MADISON

WISCONSIN
JERRY L.
SCHIPPA
44406-6
SUN PRAIRIE,
WI
9/19/2019
PROFESSIONAL ENGINEER

ACCEPTED FOR
DANE COUNTY HIGHWAY DEPARTMENT
9-26-19 (Date)
(HIGHWAY COMMISSIONER)

ACCEPTED FOR
CITY OF MADISON
9/23/19 (Date)
(City Engineer)

ORIGINAL PLANS PREPARED BY:
CITY OF MADISON
ENGINEERING DIVISION

WISCONSIN
GLEN E
YOERGER
E-41148
MADISON
WIS.
9/19/2019
PROFESSIONAL ENGINEER

DATE: 9/19/2019
(Professional Engineer)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor: SNYDER & ASSOCIATES
Designer: CITY OF MADISON

APPROVED FOR THE DEPARTMENT
DATE: 9/26/2019
Mark Westerveld
(Signature)

E

2

STANDARD ABBREVIATIONS

AC	ACRES
AH	AHEAD
ALUM.	ALUMINUM
A.P.	ACCESS POINT
BK	BACK
BLK	BLOCK
BM	BENCHMARK
CL or C/L	CENTERLINE
Δ	CENTRAL ANGLE or DELTA
CSM	CERTIFIED SURVEY MAP
D	DEGREE OF CURVE
E	EAST
X	EAST GRID COORDINATE
EB	EASTBOUND
ET AL	AND OTHERS
EXIST	EXISTING
FT	FOOT
GN	GRID NORTH
IN	INCH
IP	IRON PIPE
L	LENGTH
L	LENGTH OF CURVE
LF	LINEAL FEET
LC	LONG CHORD
LCB	LONG CHORD BEARING
LT	LEFT
MH	MANHOLE
MI	MILE
MON	MONUMENT
N	NORTH
Y	NORTH GRID COORDINATE
NB	NORTHBOUND
NO	NUMBER
PT	POINT
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PL	PROPERTY LINE
PLE	PERMANENT LIMITED EASEMENT
POB	POINT OF BEGINNING
R	RADIUS
RP	RADIUS POINT
R	RANGE
RL or R/L	REFERENCE LINE
REQ'D	REQUIRED
RT	RIGHT
R/W	RIGHT-OF-WAY
RD	ROAD
SAN	SANITARY SEWER
S	SOUTH
SB	SOUTHBOUND
SQ	SQUARE
FT2	SQUARE FEET
STD	STANDARD
SEC	SECTION
STA	STATION
STM	STORM SEWER
STR	STRUCTURE
T	TANGENT
TAN	TANGENT
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
T or TN	TOWN
TYP	TYPICAL
WM	WATERMAIN
WV	WATER VALVE
W	WEST
WB	WESTBOUND

UTILITY CONTACTS

WATERMAIN:
CITY OF MADISON WATER UTILITY
ATTN: PETER HOLMGREN
119 E. OLIN AVENUE
MADISON, WI 53713
PHONE: (608) 261-5530
FAX: (608) 266-4426
E-MAIL: pholmgren@madisonwater.org

SANITARY SEWER:
CITY OF MADISON ENGINEERING DIVISION
ATTN: MARK MODER
CITY-COUNTY BUILDING, ROOM 115
210 MARTIN LUTHER KING JR. BOULEVARD
MADISON, WI 53703
PHONE: (608) 261-9250
FAX: (608) 264-9275
E-MAIL: mmoder@cityofmadison.com

ELECTRIC:
MG&E
ATTN: MARK BOHM
P.O. BOX 1231
MADISON, WI 53701-1231
PHONE: (608) 252-4730
E-MAIL: mbohm@mge.com

STORM SEWER:
CITY OF MADISON ENGINEERING DIVISION
ATTN: FADI EL MUSA GONZALEZ
CITY-COUNTY BUILDING, ROOM 115
210 MARTIN LUTHER KING JR. BOULEVARD
MADISON, WI 53703
PHONE: (608) 243-5214
FAX: (608) 264-9275
E-MAIL: felmusagonzalez@cityofmadison.com

TRAFFIC SIGNALS & STREET LIGHTING:
CITY OF MADISON TRAFFIC ENGINEERING DIVISION
ATTN: JERRY SCHIPPA
MADISON MUNICIPAL BUILDING, SUITE 100
215 MARTIN LUTHER KING JR. BOULEVARD
MADISON, WI 53703
PHONE: (608) 267-1969
FAX: (608) 267-1158
E-MAIL: jschippa@cityofmadison.com

GAS:
MG&E
ATTN: ROGER AHLES
P.O. BOX 1231
MADISON, WI 53701-1231
PHONE: (608) 252-5682
E-MAIL: rahles@mge.com

MADISON GAS AND ELECTRIC (MG&E) 24-HOUR EMERGENCY NUMBER: 608-252-7111

ELECTRIC:
AMERICAN TRANSMISSION COMPANY
ATTN: JULIE PURVES
2 FEN OAK COURT
MADISON, WI 53718-8810
PHONE: (608) 877-3631
E-MAIL: jpurves@atcllc.com

COMMUNICATIONS:
WISCONSIN INDEPENDANT NETWORK
ATTN: TODD ELLICKSON
4955 Bullis Farm Rd.
EAU CLAIRE, WI 54701
PHONE: (608)852-4072
E-MAIL: tellickson@wins.net

TELEPHONE:
AT&T WISCONSIN
ATTN: CAROL ANASON
316 W. WASHINGTON AVE.
MADISON, WI 53703
PHONE: (608) 252-2385
E-MAIL: CA2624@att.com

CABLE TELEVISION:
CHARTER COMMUNICATIONS
ATTN: ANDY WIETECKA
2701 DANIELS ST.
MADISON, WI 53718
PHONE: (608) 274-3822 ex 86825
E-MAIL: andy.wietecka@chartercom.com

COMMUNICATIONS:
WISCONSIN DEPARTMENT OF TRANSPORTATION
ATTN: JEFF MADSON
433 W. ST. PAUL AVE. STE. 300
MILWAUKEE, WI 53203
PHONE: (414) 225-3723
E-MAIL: jeffrey.madson@dot.wi.gov

TELEPHONE:
AT&T TRANSMISSION
ATTN: EMMET LUKASIK
316 W. WASHINGTON AVE., ROOM 209
MADISON, WI 53703
PHONE: (608) 252-2106
E-MAIL: el1345@att.com

GENERAL NOTES

ABBREVIATIONS FOR THE ALIGNMENTS ARE AS FOLLOWS:
"EB" = COTTAGE GROVE RD. EASTBOUND (MAIN ALIGNMENT FOR PROJECT)
"WB" = COTTAGE GROVE RD. WESTBOUND

TYPICAL FINISHED SECTIONS SHOW THE GENERAL ROADWAY FEATURES THROUGHOUT THE PROJECT. PAVEMENT SLOPES, BORDER SLOPES, ETC., MAY VARY WITHIN THE STATION LIMITS OF EACH SECTION.

CROSS SLOPES AS SHOWN ON THE TYPICAL SECTION WILL VARY AT THE INTERSECTIONS. SEE DETAIL SHEETS AND CROSS SECTIONS FOR SLOPES AND GRADES.

ALL RADII DIMENSIONS MEASURED TO THE EDGE OF GUTTER (FLAG) UNLESS NOTED OTHERWISE.

CURB GRADES PROVIDED GIVE EDGE OF GUTTER (FLAG) ELEVATIONS UNLESS NOTED OTHERWISE.

OFFSETS FOR INLETS AND MANHOLES ARE GIVEN TO THE CENTER OF STRUCTURE.

STORM SEWER PIPE REMOVALS IN PROPOSED STORM SEWER TRENCHES ARE NOT SHOWN IN THE STORM SEWER PLAN. REMOVALS ARE INCLUDED IN MISCELLANEOUS QUANTITIES.

ELEVATIONS GIVEN IN THE PLAN FOR STORM SEWER INLETS ARE GIVEN TO THE TOP OF CURB AT THE INLET LOCATION.

ELEVATIONS GIVEN IN THE PLAN FOR STORM SEWER STRUCTURES ARE DENOTED "RIM" AND ARE GIVEN TO THE TOP OF CASTING AT THE STRUCTURE LOCATION.

THE EXACT LOCATION AND WIDTH OF DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. DRIVEWAYS SHALL BE REPLACED IN KIND. RESIDENTIAL DRIVEWAYS SHALL BE A MAXIMUM OF 20 FEET WIDE.

THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE.

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

PIPE ELEVATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

GRADES SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

WHEN REPLACING INDIVIDUAL SECTIONS OF SIDEWALK, MATCH EXISTING CONCRETE, ASPHALT OR STRUCTURES (WALLS, BUILDINGS, ETC. THAT ARE CONSTRUCTED TO THE PROPERTY LINE) BEHIND THE SIDEWALK. WHERE TURF EXISTS BEHIND THE SIDEWALK, KEEP DISTURBANCE TO WITHIN 6" OF THE SIDEWALK AND RESTORE WITH TOPSOIL, SEED, FERTILIZER, & EROSION MAT.

CURB RAMPS SHALL BE TYPE 2 UNLESS OTHERWISE NOTED. CONCRETE SIDEWALK FOR CURB RAMPS SHALL BE CONCRETE SIDEWALK, 7-INCH.

CONCRETE SIDEWALK FOR BUS STOPS SHALL BE CONCRETE SIDEWALK, 7-INCH.

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

TEMPORARY PAVEMENT SHALL BE INSTALLED AS 4" OF TEMPORARY SURFACE OVER 8" BASE AGGREGATE DENSE 1.25"

ACCESS TO COMMERCIAL PARKING LOTS (4 OR MORE PARKING SPACES) MUST BE MAINTAINED AT ALL TIMES. ACCESS MAY BE MAINTAINED BY RECONSTRUCTING MULTIPLE DRIVE ENTRANCES ONE AT A TIME, CONSTRUCTING DRIVE APRONS ONE HALF AT A TIME OR BY PLATING THE WORK AT DRIVE ENTRANCES.

SIDE STREET PAVEMENT STRUCTURE SHALL BE THE SAME AS THE MAINLINE PAVEMENT STRUCTURE UNLESS NOTED OTHERWISE IN THE PLAN.

HMA PAVEMENT, WHEN INDICATED ON THE PLANS, SHALL CONSIST OF THE FOLLOWING COURSES UNLESS NOTED OTHERWISE ON THE PLANS:

6.0" TOTAL DEPTH	TYPE	SIZE GRADATION	PERFORMANCE GRADE
4" LOWER	3 MT 58-28 S	19 mm	PG58-28
2.0" UPPER	4 MT 58-28 S	12.5 mm	PG58-28

SECTION 2 ORDER OF SHEETS

GENERAL NOTES
PROJECT OVERVIEW
ALIGNMENT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
GRADES DETAILS
EROSION CONTROL
STORM SEWER
WATERMAIN
PERMANENT SIGNING
TRAFFIC SIGNALS & STREET LIGHT PLAN
MARKING PLAN
TRAFFIC CONTROL

**NOT A MEMBER OF DIGGERS HOTLINE

DESIGN CONTACT

CITY OF MADISON
ATTN: GLEN YOERGER, P.E.
CITY-COUNTY BUILDING, ROOM 115
210 MARTIN LUTHER KING JR. BOULEVARD
MADISON, WI 53703
PHONE: (608) 261-9177
FAX: (608) 264-9275
E-MAIL: gyoerger@cityofmadison.com

DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
ATTN: ERIC HEGGELUND
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
PHONE: (608) 275-3301
EMAIL: eric.heggelund@wisconsin.gov

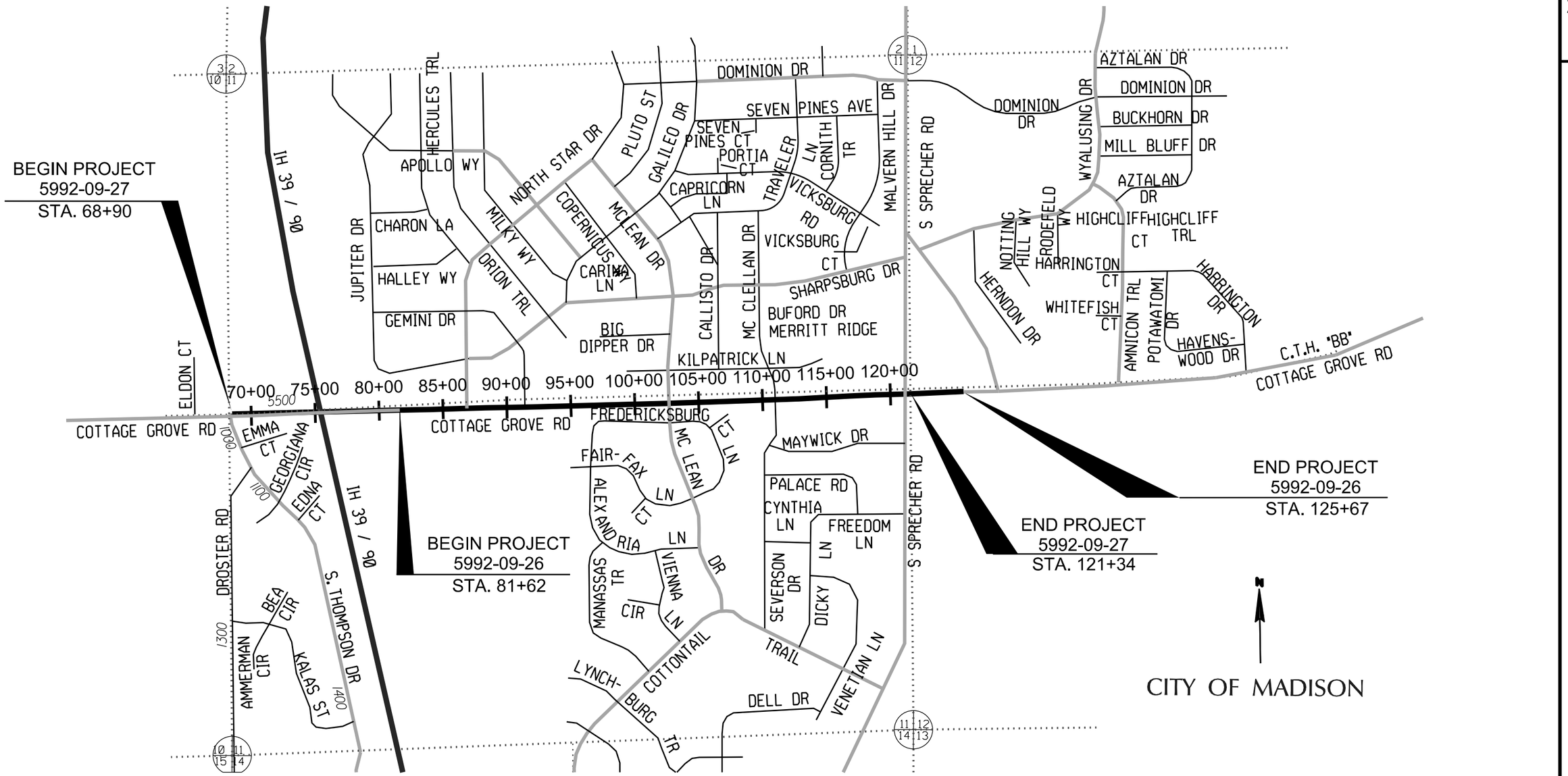
DANE COUNTY HIGHWAY

DANE COUNTY HIGHWAY
ATTN: PAM DUNPHY, P.E.
2302 FISH HATCHERY ROAD
MADISON, WI 53703
PHONE: (608) 266-4036
EMAIL: Dunphy@countyofdane.com

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

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	GENERAL NOTES	SHEET 2	E

2



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PROJECT OVERVIEW	SHEET 3	E

2

2

N

0 100 200

GRAPHIC SCALE

MATCH LINE STA 94'EB'+00 & STA 28'WB'+50

NORTH STAR DRIVE

GEMINI DRIVE

CP COT 5
N=486502.96
E=848323.33
ELV=1002.21

COTTAGE GROVE RD WB R/L
POB 16+00.00
N=486476.08
E=848553.49

COTTAGE GROVE RD WB R/L
PI 18+25.00
N=486483.13
E=848778.38
DELTA=0°03'17"

CP COT 4
N=486538.20
E=849244.99
ELEV=1024.27

COTTAGE GROVE RD WB R/L
PI 21+57.93
N=486493.24
E=849111.16
DELTA=0°08'41"

COTTAGE GROVE RD WB R/L
PI 25+67.83
N=486504.65
E=849520.90
DELTA=0°45'44"

COTTAGE GROVE RD WB R/L
PI 26+49.01
N=486507.99
E=849602.00
DELTA=0°46'05"

COTTAGE GROVE RD WB R/L

16+00 225.00' N88°12'18"E 17+00 18+00 19+00 332.93' N88°15'35"E 20+00 21+00 22+00 23+00 24+00 409.90' N88°24'16"E 25+00 26+00 81.17' N87°38'32"E 27+00 636.89' N88°24'37"E 28+00

81+00 82+00 83+00 428.19' N88°42'35"E 84+00 85+00 86+00 300.71' N88°13'01"E 87+00 88+00 89+00 330.86' N88°58'29"E 90+00 91+00 92+00 93+00 1092.58' N88°28'07"E 94+00

COTTAGE GROVE RD EB R/L
POB 81+00.00
N=486457.91
E=848497.06

COTTAGE GROVE RD EB R/L

COTTAGE GROVE RD EB R/L
PI 85+28.19
N=486467.55
E=848925.14
DELTA=0°29'34"

200+00.00 POB

200+39.47 PC

39.47'
R=76.00'
Delta=29°45'43"

COTTAGE GROVE RD EB R/L
PI 88+28.89
N=486476.91
E=849225.70
DELTA=0°45'28"

COTTAGE GROVE RD EB R/L
PI 91+59.76
N=486482.83
E=849556.51
DELTA=0°30'22"

200+90.14 PT

201+00 102.16' S74°09'20"E 202+00

DRIVEWAY R/L

PI
N=486357.76
E=849092.04
CURVE
R=40.00'
Delta=72°34'37"
Arc=50.67'
Chord=S37°52'02"E 47.35'
Tan=29.37'

201+92.30 PC

202+46.38 PT

202+62.84 POE

16.47' S61°47'11"E 202+63

PI
N=486313.48
E=849248.06
CURVE
R=46.00'
Delta=67°21'39"
Arc=54.08'
Chord=S40°28'31"E 51.02'
Tan=30.66'

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	ALIGNMENT DETAILS - COTTAGE GROVE RD.	SHEET 4	E

2

2

N

0 100 200

GRAPHIC SCALE

MATCH LINE STA 94'EB'+00 & STA 28'WB'+50

MATCH LINE STA 109'EB'+00 & STA 43'WB'+50

COTTAGE GROVE RD WB R/L
PI 32+85.89
N=486525.66
E=850238.64
DELTA=0°04'10"

COTTAGE GROVE RD WB R/L
PI 36+17.99
N=486534.47
E=850570.62
DELTA=0°16'09"

COTTAGE GROVE RD WB R/L
PI 37+38.37
N=486537.10
E=850690.98
DELTA=0°16'09"

COTTAGE GROVE RD WB R/L
PI 41+24.62
N=486547.84
E=851077.08
DELTA=0°28'57"

29+00 636.89' N88°24'37"E 30+00 31+00 32+00 33+00 34+00 332.09' N88°28'47"E 35+00 36+00 120.38' N88°44'56"E 37+00 38+00 39+00 386.25' N88°24'24"E 40+00 41+00 42+00 627.20' N87°55'27"E 43+00

95+00 96+00 97+00 1092.58' N88°28'07"E 98+00 99+00 100+00 101+00 102+00 103+00 104+00 429.57' N88°09'15"E 105+00 106+00 107+00 599.59' N87°55'27"E 108+00 109+00

COTTAGE GROVE RD EB R/L

CP COT 3
N=486467.45
E=850597.52
ELV=1001.41

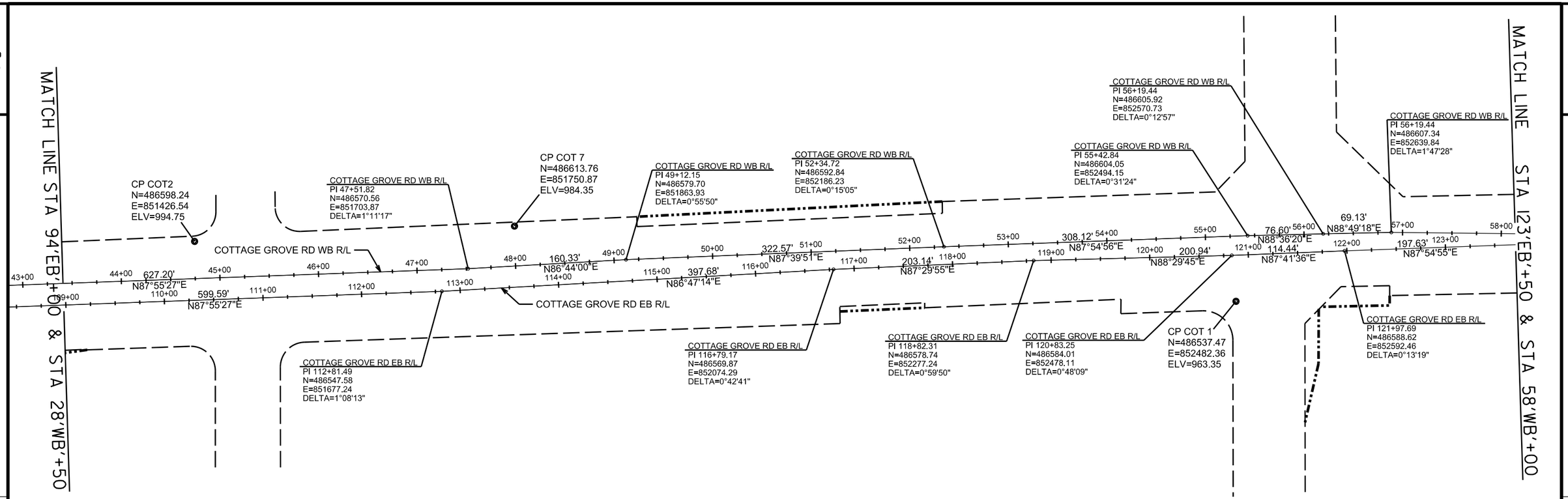
MCCLEAN DRIVE

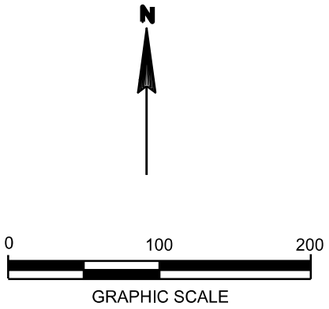
COTTAGE GROVE RD EB R/L
PI 102+52.34
N=486512.03
E=850648.70
DELTA=0°18'52"

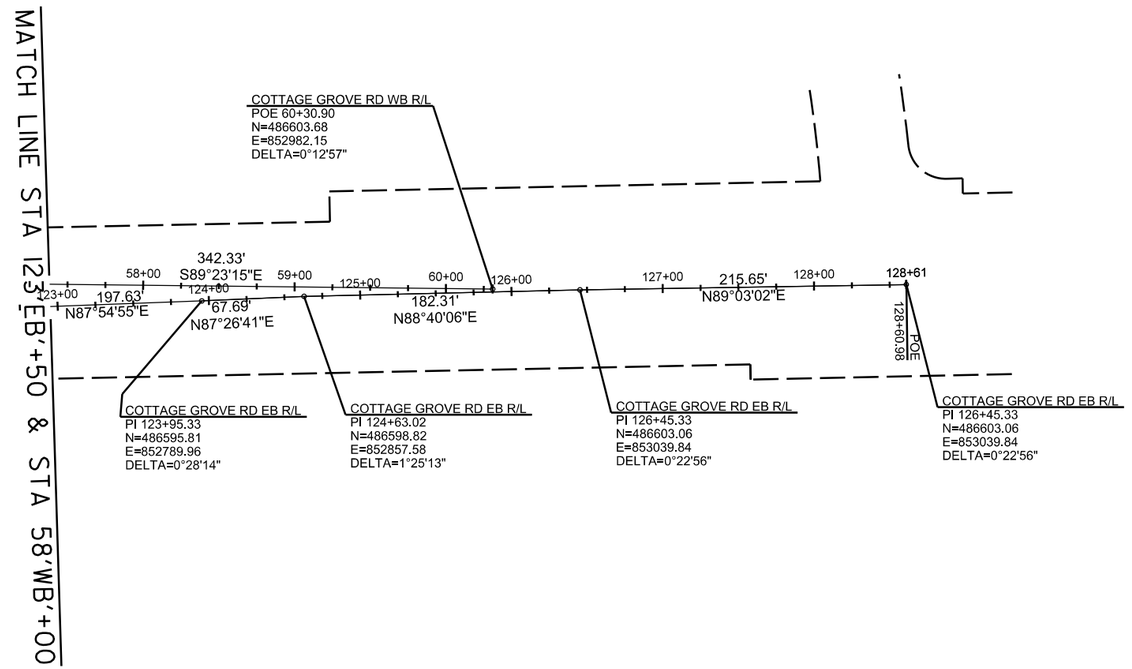
COTTAGE GROVE RD EB R/L
PI 106+81.91
N=486525.86
E=851078.04
DELTA=0°18'52"

CP COT 6
N=486480.63
E=851205.55
ELV=998.16

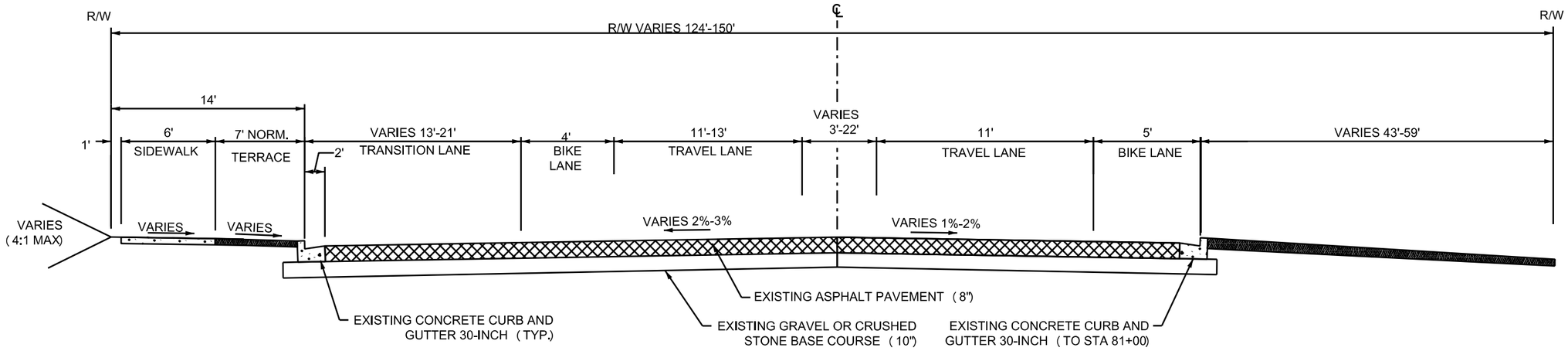
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	ALIGNMENT DETAILS - COTTAGE GROVE RD.	SHEET 5	E





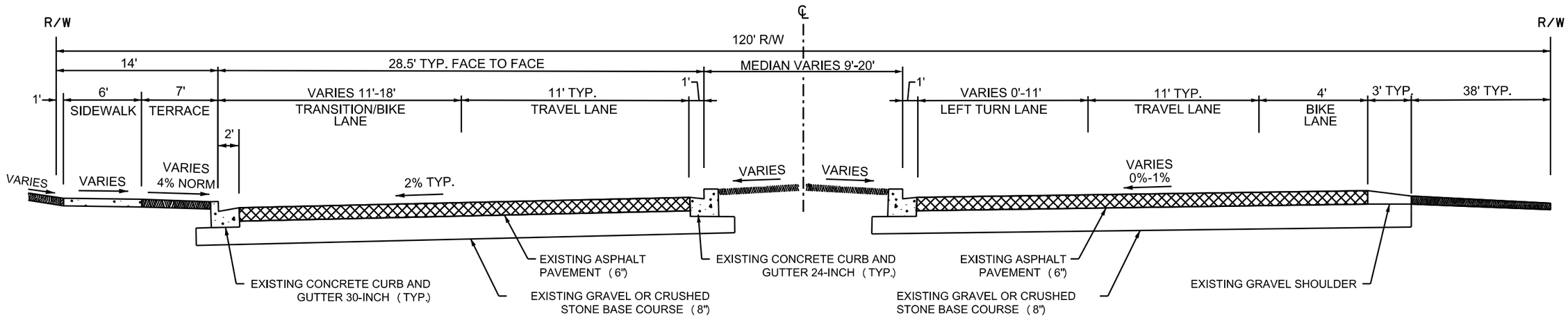


PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PLAN DETAILS - COTTAGE GROVE RD.	SHEET 6 E



EXISTING TYPICAL SECTION - COTTAGE GROVE ROAD

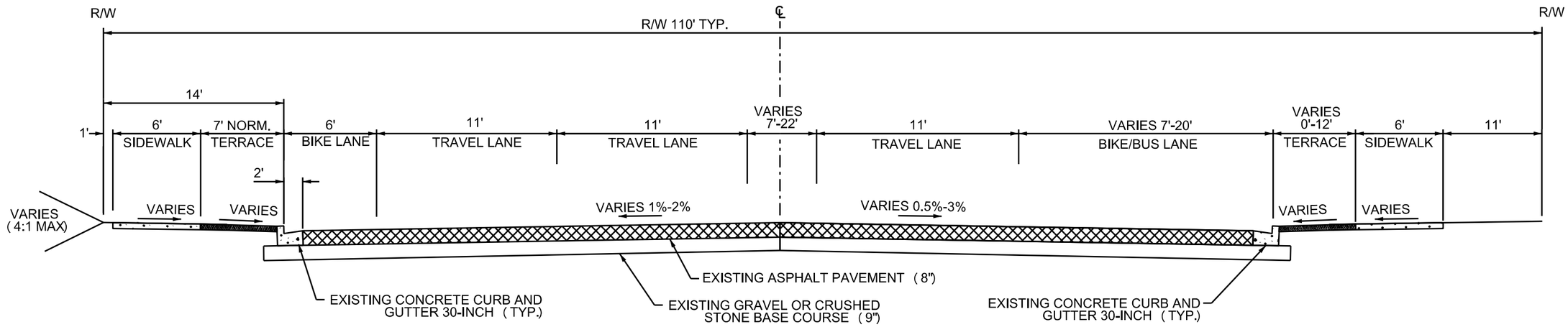
I-39/90/94 OVERPASS TO STA 84+00



EXISTING TYPICAL SECTION - COTTAGE GROVE ROAD

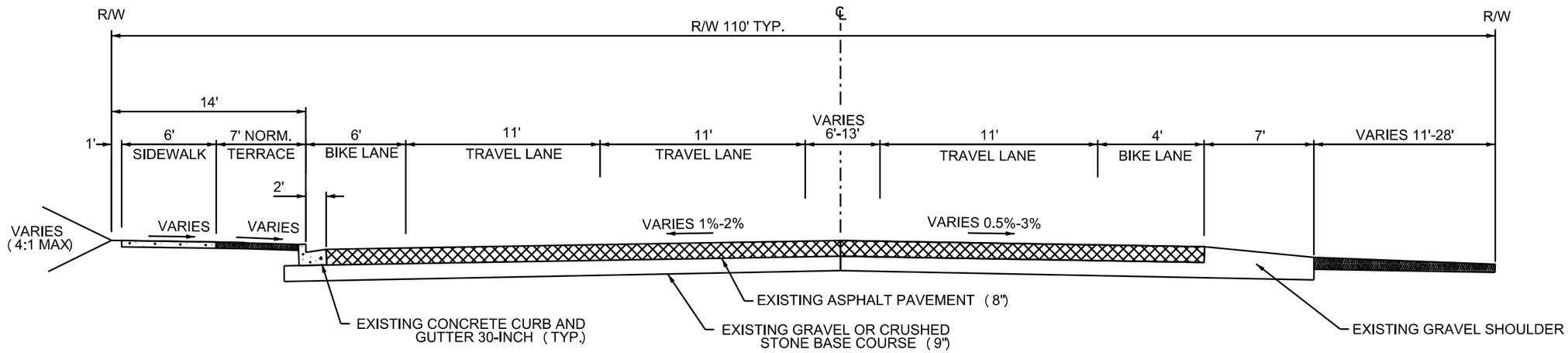
STA 84+00 TO NORTHSTAR DR.

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 7	E



EXISTING TYPICAL SECTION - COTTAGE GROVE ROAD

NORTHSTAR DR TO STA 89+49



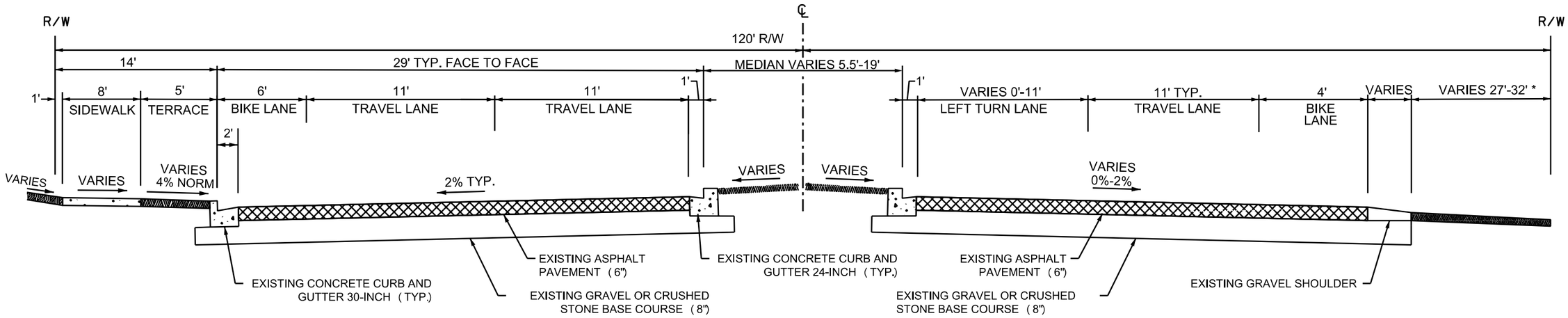
EXISTING TYPICAL SECTION - COTTAGE GROVE ROAD

STA 89+49 TO GEMINI DR

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 8	E

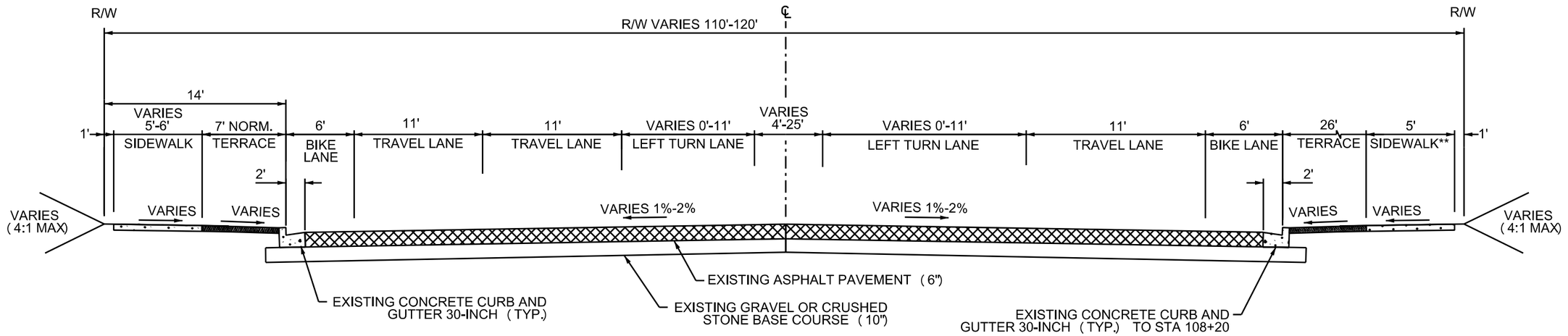
FILE NAME : M:\DESIGN\Projects\53W0472\Streets\60% Plans\DGNs\Typical Sections\Existing Typical Section 02.dgn PLOT DATE : 7/15/2016 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 7.8750 ' / in.

WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION - COTTAGE GROVE ROAD

GEMINI DR TO MCLEAN DR

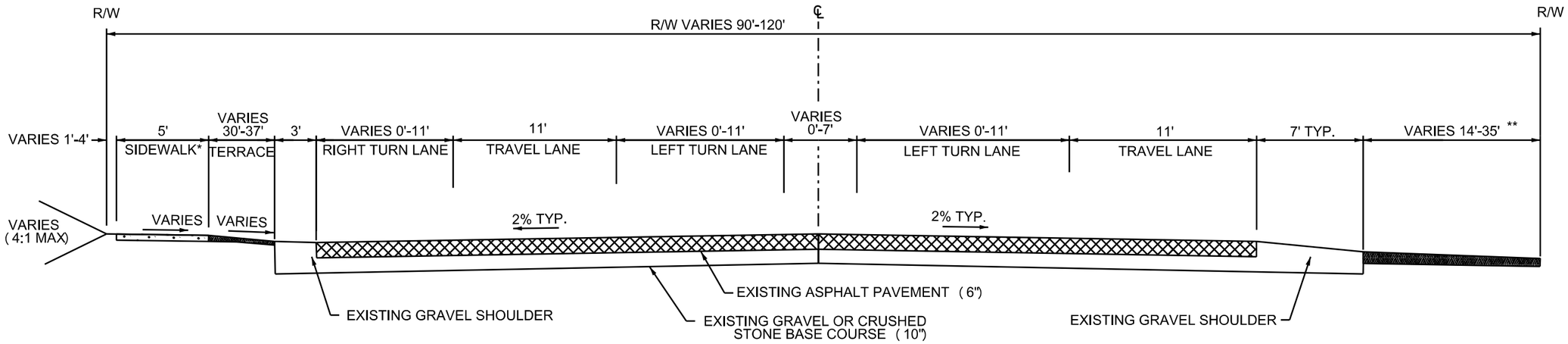


EXISTING TYPICAL SECTION - COTTAGE GROVE ROAD

MCLEAN DR TO SEVERSON DR

* 5' SIDEWALK STA 99+56 TO MCLEAN DR
** 5' SIDEWALK ENDS STA 108+20

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 9	E



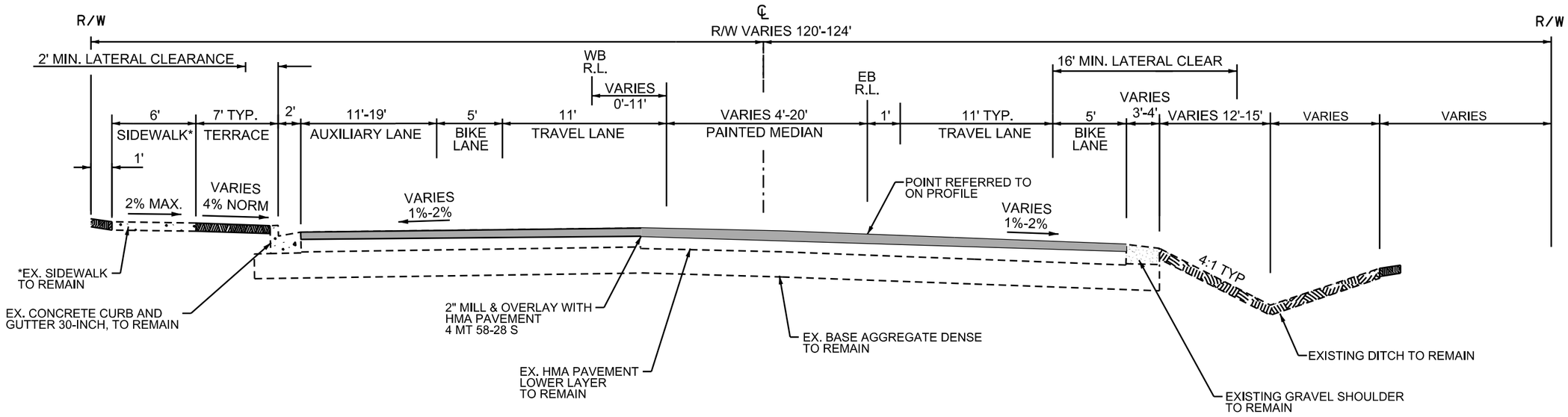
EXISTING TYPICAL SECTION - COTTAGE GROVE ROAD

SEVERSON DR TO SPRECHER RD

* SIDEWALK FROM SEVERSON TO STA 114+67,
STA 117+92 TO SPRECHER

** SIDEWALK FROM SEVERSON TO STA 114+50,
STA 119+68 TO SPRECHER

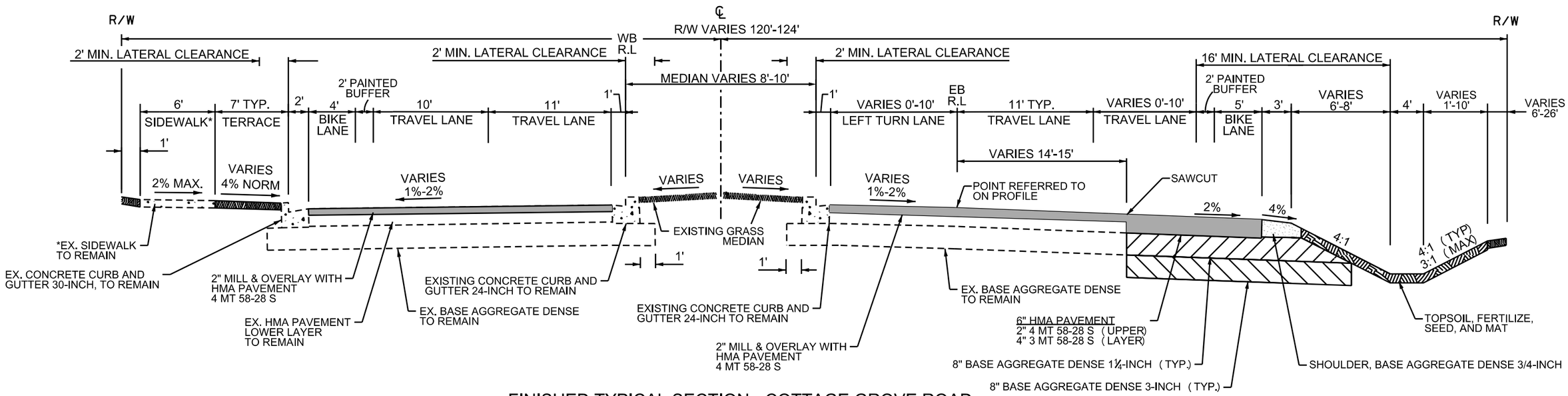
PROJECT NO:5992-09-26	HWY:COTTAGE GROVE RD	COUNTY:DANE	EXISTING TYPICAL SECTIONS	SHEET 10	E



FINISHED TYPICAL SECTION - COTTAGE GROVE ROAD

WB STA 16+04 TO STA 18+43
EB STA 81+60 TO STA 84+00
(WEST TERMINUS TO WEST OF NORTH STAR DR.)

* EXISTING CONCRETE SIDEWALK TO REMAIN (2% MAX)
OR NEW CONCRETE SIDEWALK 5-INCH (1.5% TYP.)
OVER 2" BASE AGGREGATE DENSE ¾ INCH

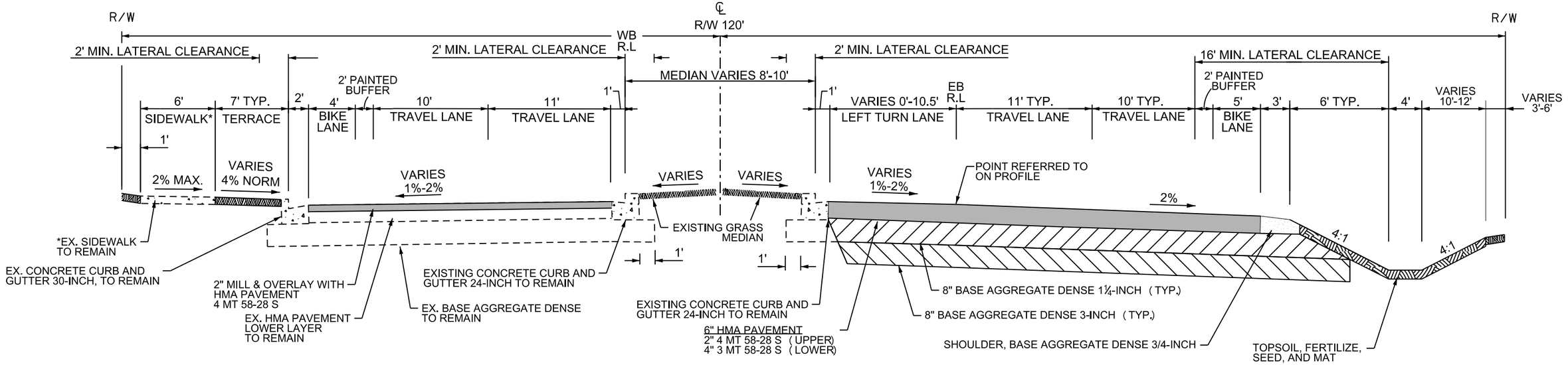


FINISHED TYPICAL SECTION - COTTAGE GROVE ROAD

WB STA 18+43 TO STA 19+93
EB STA 84+00 TO STA 85+50
(WEST OF NORTH STAR DR.)

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PROPOSED TYPICAL SECTIONS	SHEET 11	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\Typical Sections\Proposed Typical Section 01.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 7.8750 ' / in.
WISDOT/CADDS SHEET 42

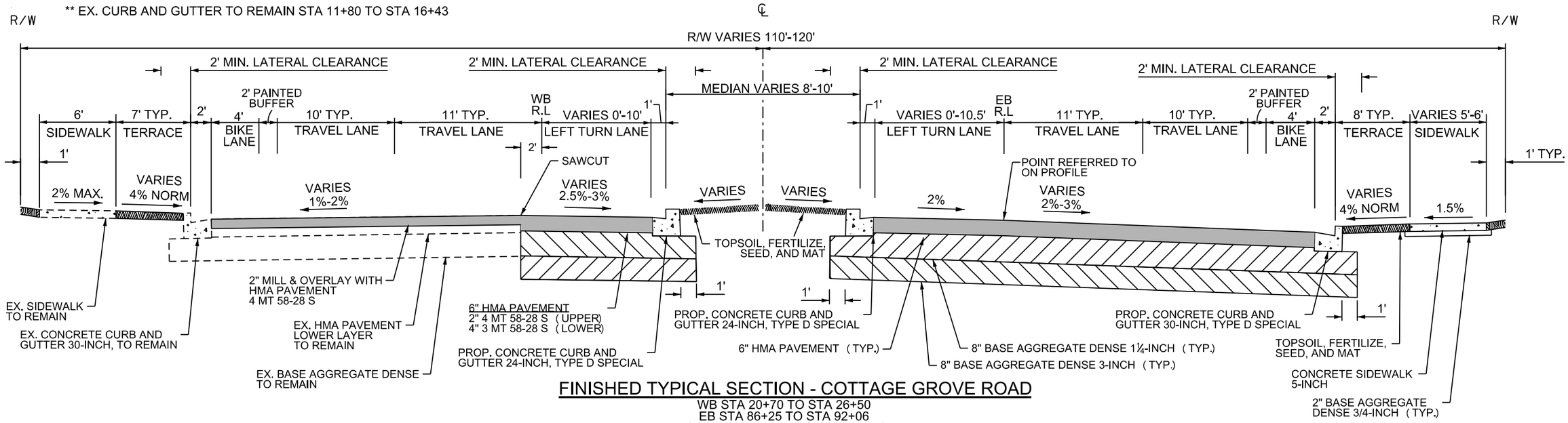


FINISHED TYPICAL SECTION - COTTAGE GROVE ROAD

WB STA 19+93 TO STA 20+70
EB STA 85+50 TO STA 86+25
(WEST OF NORTHSTAR DR TO NORTHSTAR DR)

* EXISTING CONCRETE SIDEWALK TO REMAIN (2% MAX)
OR NEW CONCRETE SIDEWALK 5-INCH (1.5% TYP.)
OVER 2" BASE AGGREGATE DENSE ¾ INCH

** EX. CURB AND GUTTER TO REMAIN STA 11+80 TO STA 16+43

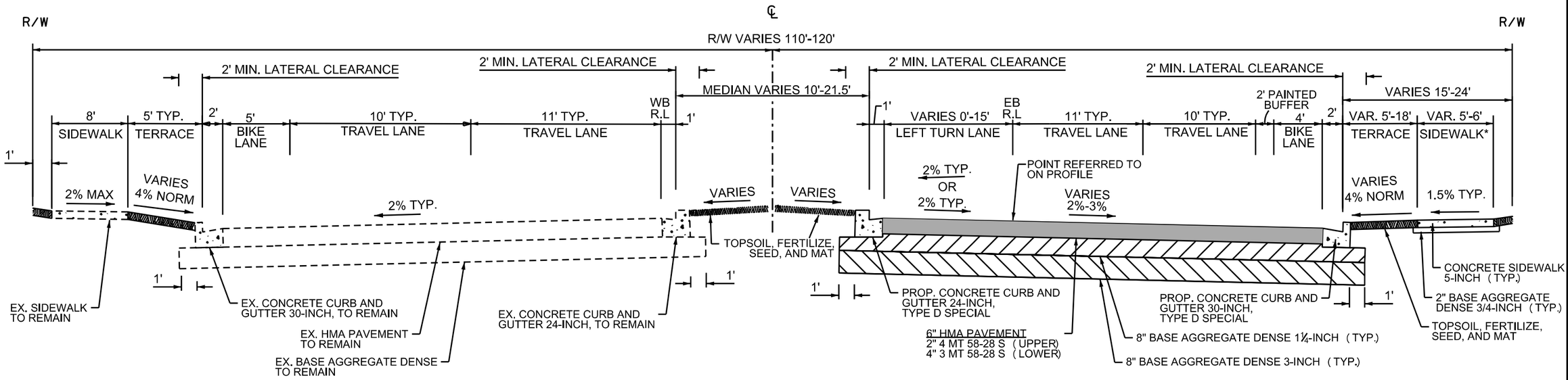


FINISHED TYPICAL SECTION - COTTAGE GROVE ROAD

WB STA 20+70 TO STA 26+50
EB STA 86+25 TO STA 92+06
(NORTHSTAR DR TO GEMINI DR)

PROJECT NO:5992-09-26	HWY:COTTAGE GROVE ROAD	COUNTY:DANE	PROPOSED TYPICAL SECTIONS	SHEET 12	E

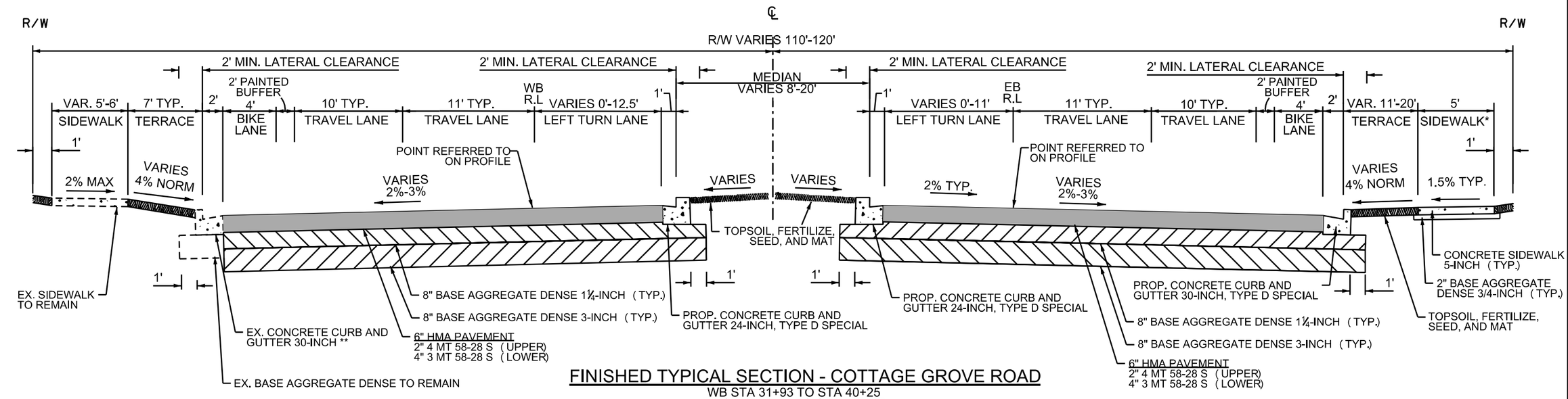
2



FINISHED TYPICAL SECTION - COTTAGE GROVE ROAD

WB STA 21+00 TO STA 31+93
EB STA 91+56 TO STA 102+50
(GEMINI DR TO MCLEAN DR)

* EXISTING CONCRETE SIDEWALK TO REMAIN (2% MAX)
OR NEW CONCRETE SIDEWALK 5-INCH (1.5% TYP.)
OVER 2" BASE AGGREGATE DENSE ¾ INCH



FINISHED TYPICAL SECTION - COTTAGE GROVE ROAD

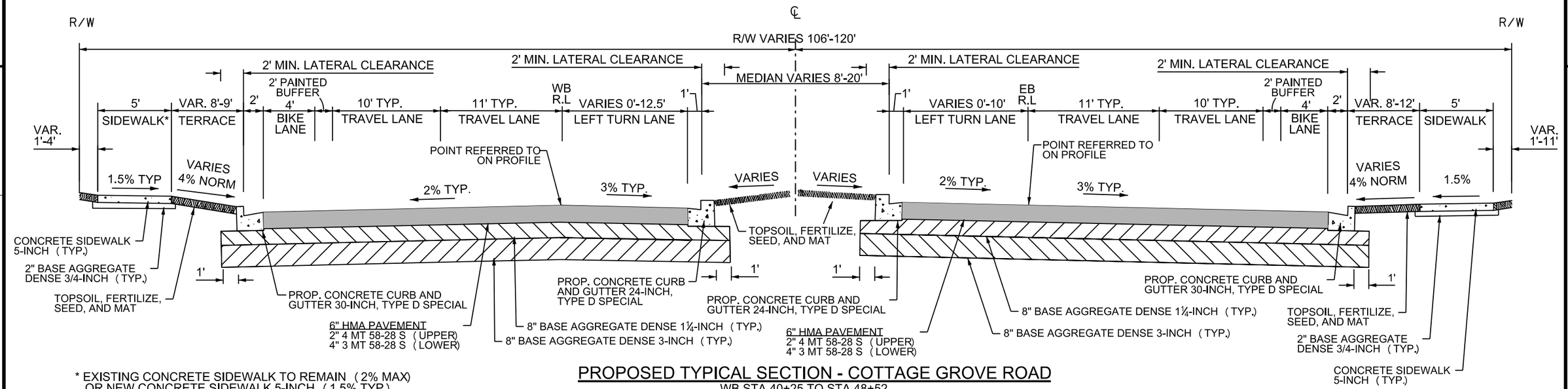
WB STA 31+93 TO STA 40+25
EB STA 102+50 TO STA 110+82
(MCLEAN DR TO MCCLELLAN DR)

** EX. CURB AND GUTTER TO REMAIN STA 31+93 TO STA 36+25

* EXISTING CONCRETE SIDEWALK TO REMAIN (2% MAX)
OR NEW CONCRETE SIDEWALK 5-INCH (1.5% TYP.)
OVER 2" BASE AGGREGATE DENSE ¾ INCH

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PROPOSED TYPICAL SECTIONS	SHEET 13	E

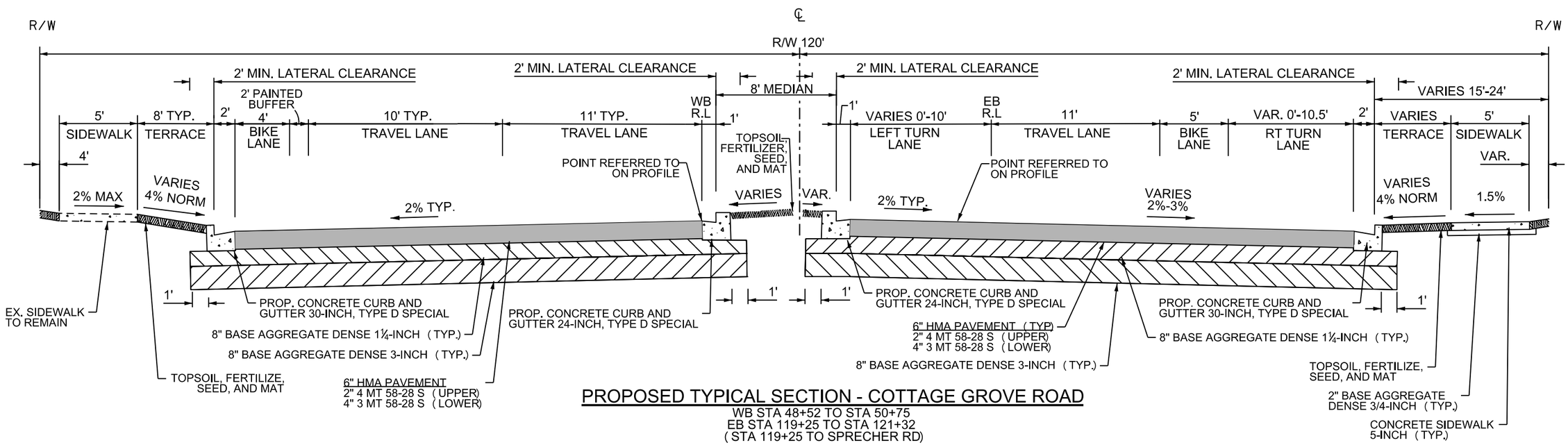
FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\Typical Sections\Proposed Typical Section 03.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 7.8750 ' / in.
WISDOT/CADDS SHEET 42



* EXISTING CONCRETE SIDEWALK TO REMAIN (2% MAX)
OR NEW CONCRETE SIDEWALK 5-INCH (1.5% TYP.)
OVER 2" BASE AGGREGATE DENSE ¾ INCH

PROPOSED TYPICAL SECTION - COTTAGE GROVE ROAD

WB STA 40+25 TO STA 48+52
EB STA 110+82 TO STA 119.25
(MCCLELLAN DR TO STA 119+25)

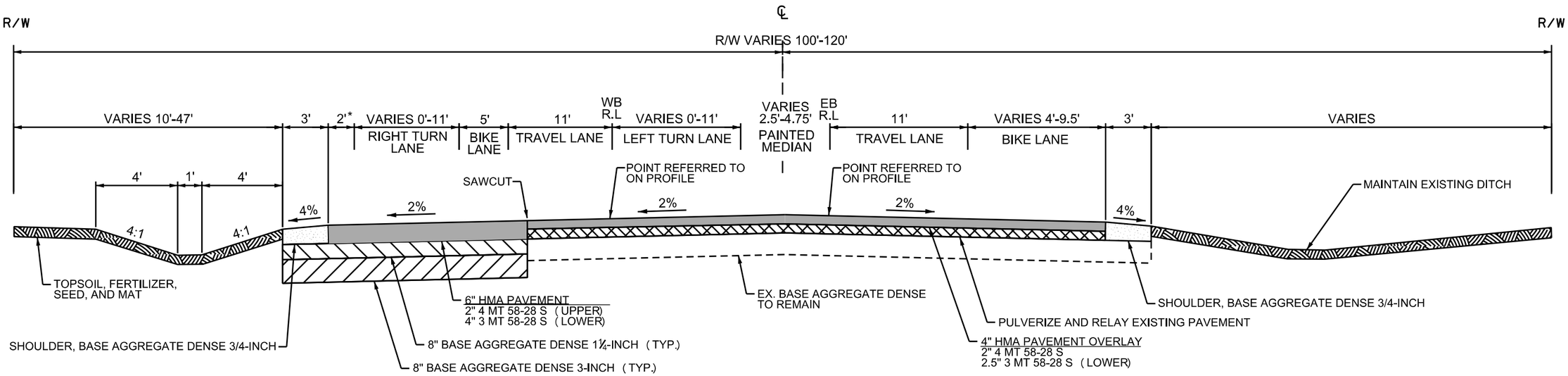


PROPOSED TYPICAL SECTION - COTTAGE GROVE ROAD

WB STA 48+52 TO STA 50+75
EB STA 119+25 TO STA 121+32
(STA 119+25 TO SPRECHER RD)

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PROPOSED TYPICAL SECTIONS	SHEET 14	E

2

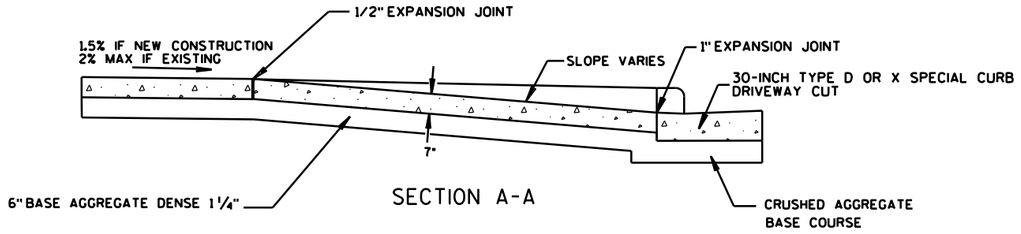


FINISHED TYPICAL SECTION - COTTAGE GROVE ROAD

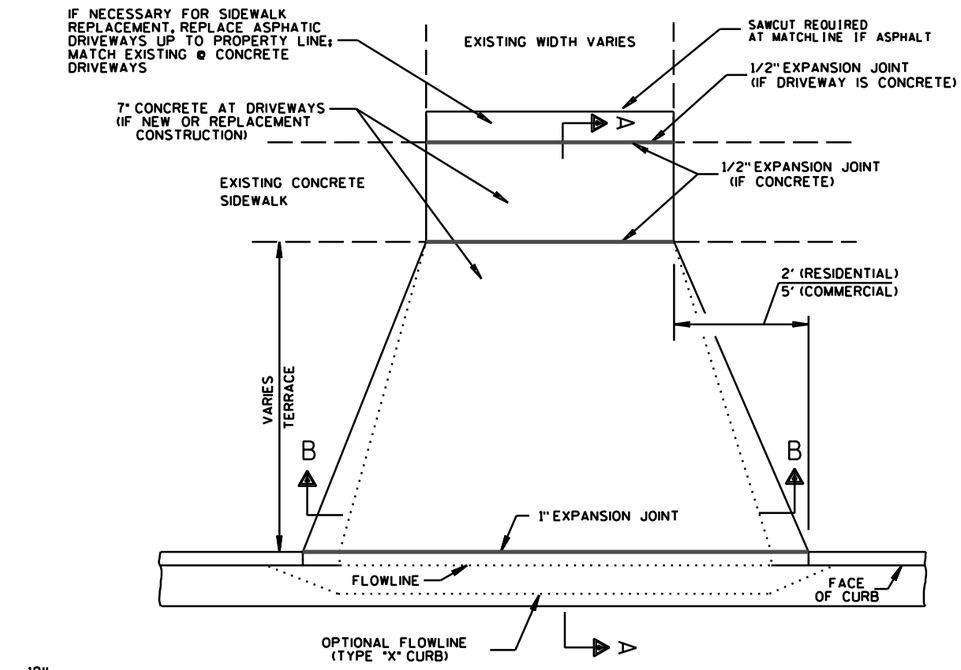
WB STA 50+75 TO TERMINUS
EB STA 121+32 TO STA 125+67
(SPRECHER RD TO EAST TERMINUS)

* PAVED SHOULDER

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PROPOSED TYPICAL SECTIONS	SHEET 15	E



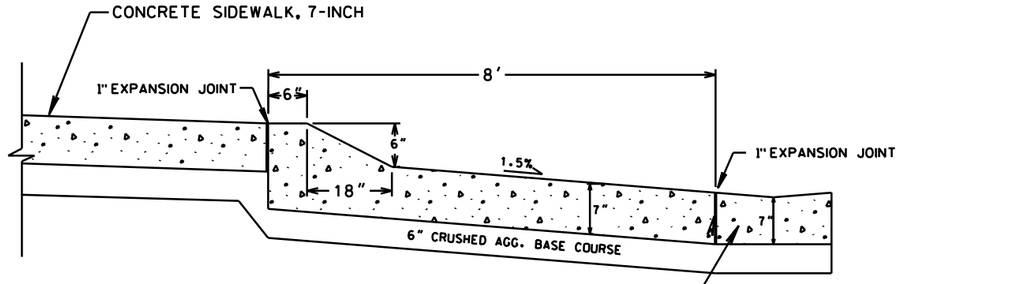
SECTION A-A



SECTION B-B

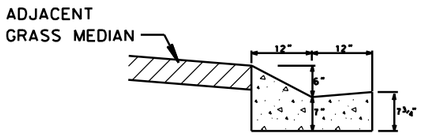
CONCRETE DRIVE APRON DETAIL

NOT TO SCALE



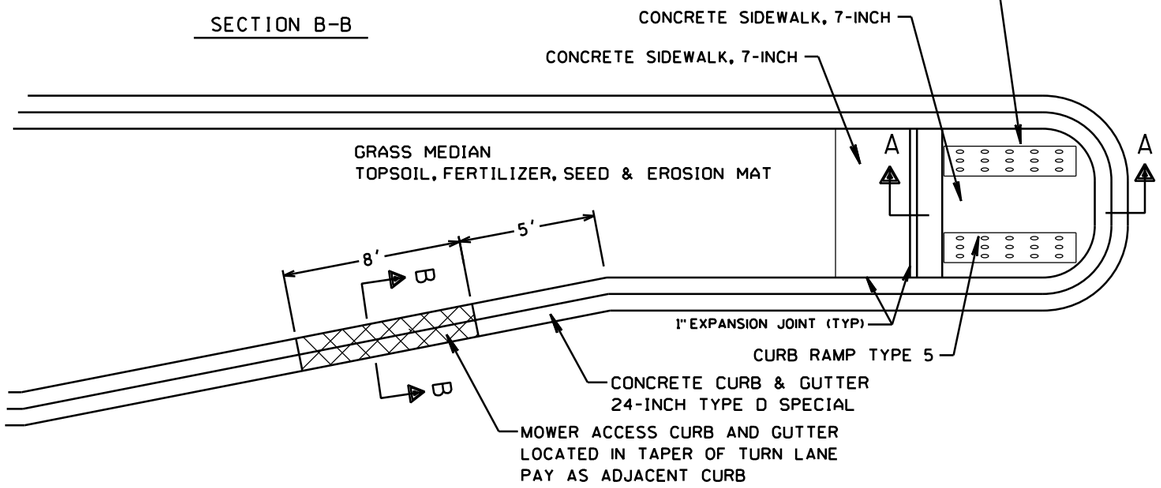
SECTION A-A

CONCRETE CURB & GUTTER
24-INCH TYPE D SPECIAL, WHERE
SHOWN ON PLAN. OTHERWISE,
CONSTRUCT SLOPED NOSE TO
EDGE OF PAVEMENT



SECTION B-B

CURB RAMP DETECTABLE WARNING FIELD (TYP)
FULL WIDTH OF RAMP; ONLY INSTALL ONLY WHEN
BACK-OF-CURB TO BACK-OF-CURB DIMENSION IS 6' MIN.



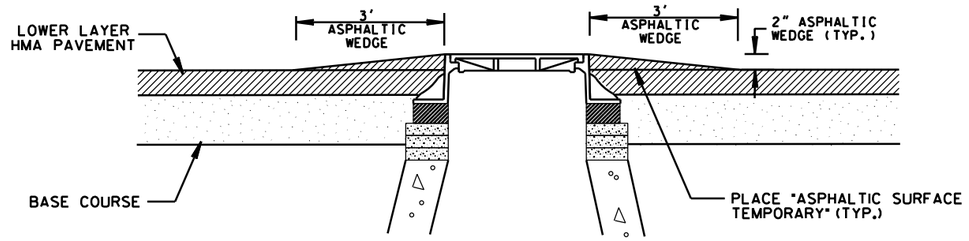
MEDIAN NOSE DETAIL

NOT TO SCALE

NOTES:

PROVIDE ASPHALTIC WEDGES PRIOR TO OPENING LANE TO TRAFFIC

PRIOR TO SURFACE PAVING, REMOVE ALL ASPHALTIC WEDGES DOWN TO THE TOP OF THE LOWER LAYER OF HMA PAVEMENT. REMOVAL OF ASPHALTIC WEDGES WILL BE PAID FOR AS "REMOVE ASPHALTIC SURFACE BUTT JOINTS"

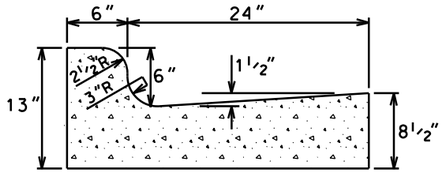


TEMPORARY WEDGING DETAIL

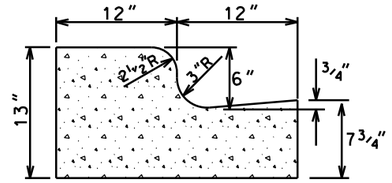
NOT TO SCALE

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 16	E

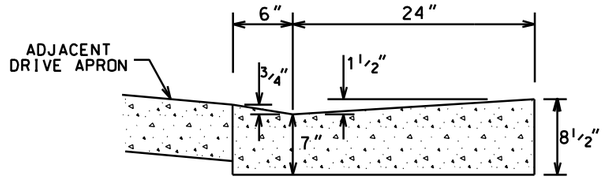
CONCRETE CURB AND GUTTER DETAILS



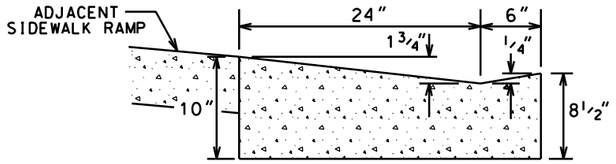
CONCRETE CURB AND GUTTER 30-INCH TYPE D SPECIAL
(CITY OF MADISON TYPE 'A' CURB & GUTTER)
NOT TO SCALE



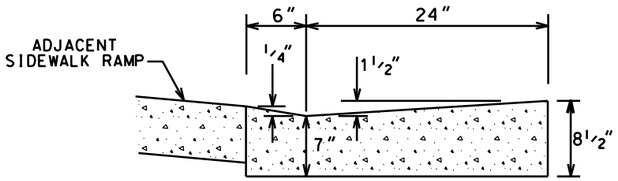
CONCRETE CURB AND GUTTER 24-INCH TYPE D SPECIAL
(CITY OF MADISON TYPE 'H' CURB & GUTTER)
NOT TO SCALE



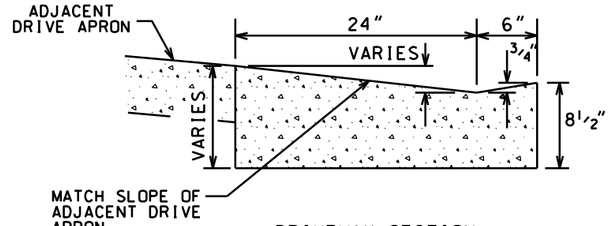
DRIVEWAY SECTION
CONCRETE CURB AND GUTTER 30-INCH TYPE D SPECIAL
(CITY OF MADISON TYPE 'A' CURB & GUTTER)
NOT TO SCALE



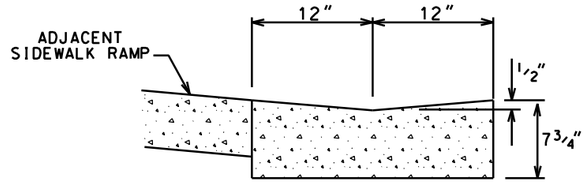
SIDEWALK RAMP SECTION
CONCRETE CURB AND GUTTER 30-INCH TYPE X SPECIAL
(CITY OF MADISON TYPE 'X' CURB & GUTTER)
NOT TO SCALE



SIDEWALK RAMP SECTION
CONCRETE CURB AND GUTTER 30-INCH TYPE D SPECIAL
(CITY OF MADISON TYPE 'A' CURB & GUTTER)
NOT TO SCALE



DRIVEWAY SECTION
CONCRETE CURB AND GUTTER 30-INCH TYPE X SPECIAL
(CITY OF MADISON TYPE 'X' CURB & GUTTER)
NOT TO SCALE



SIDEWALK RAMP SECTION
CONCRETE CURB AND GUTTER 24-INCH TYPE D SPECIAL
(CITY OF MADISON TYPE 'H' CURB & GUTTER)
NOT TO SCALE

GENERAL NOTES:

LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15' NOR LESS THAN 6' IN LENGTH. THE JOINTS SHALL BE A MINIMUM OF 3" IN DEPTH

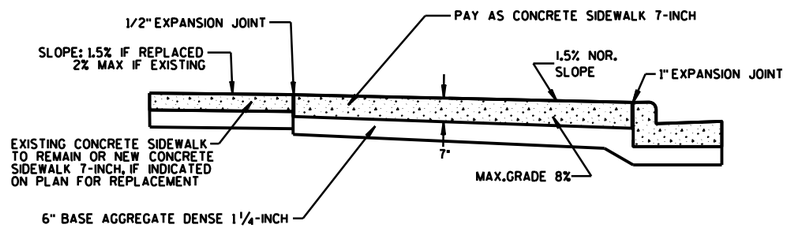
EXPANSION JOINTS SHALL BE PLACED TRANSVERSLY AT RADIUS POINTS ON CURVES OF RADIUS 200' OR LESS. AND AT ANGLE POINTS. OR AS DIRECTED BY THE ENGINEER. THE EXPANSION JOINT SHALL BE A ONE PIECE ASPHALTIC MATERIAL HAVING THE SAME DIMENSIONS AS CURB & GUTTER AT THAT STATION AND BE ½" THICK.

IN ALL CASES. CONCRETE CURB & GUTTER SHALL BE PLACED ON THOROUGHLY COMPACTED CRUSHED STONE

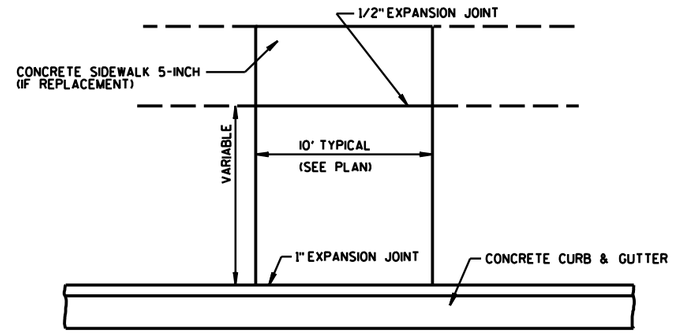
TRANSITIONS BETWEEN TYPE D CURB AND TYPE X CURB ARE TO BE MADE OVER A MINIMUM AS 6 FT. LENGTHEN TRANSITIONS AS NECESSARY TO MAINTAIN DRAINAGE ALONG THE FLOW LINE. PAY THESE TRANSITIONS AS THE TYPE X CURBS OR AS NOTED.

BUS BOARDING PAD DETAIL

NOT TO SCALE



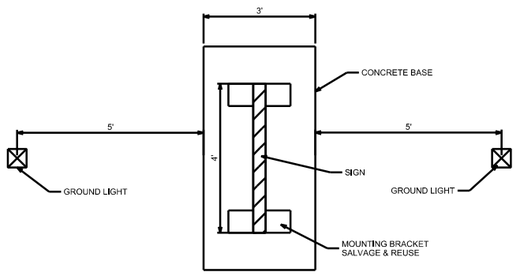
PROFILE



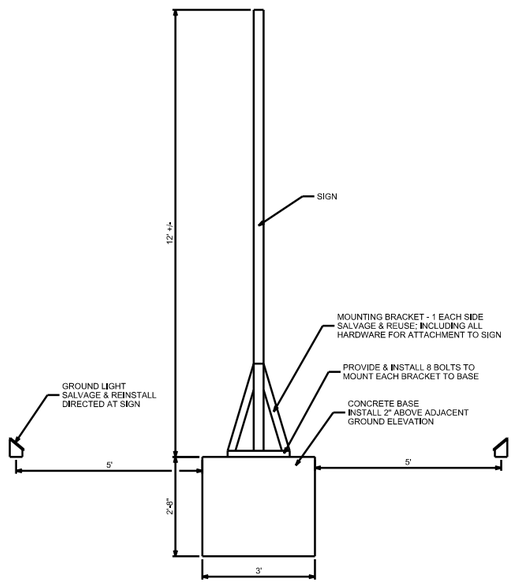
PLAN

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\53W0472EN-Const Detail2.dgn
PLOT DATE : 8/7/2019
PLOT BY : enjmw
PLOT NAME :
PLOT SCALE : 121.8712 sf / in.
WISDOT/CADDS SHEET 42



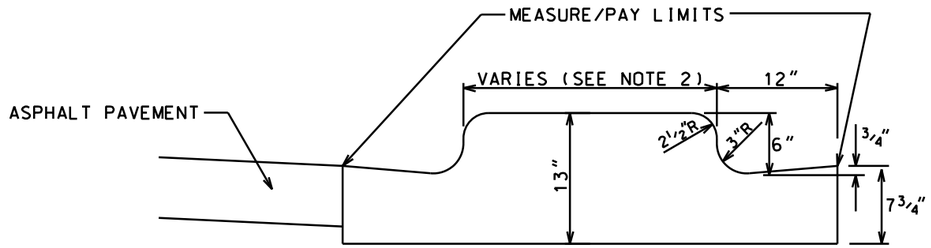
PLAN VIEW



PROFILE VIEW

SIGN WITH LIGHTING DETAIL

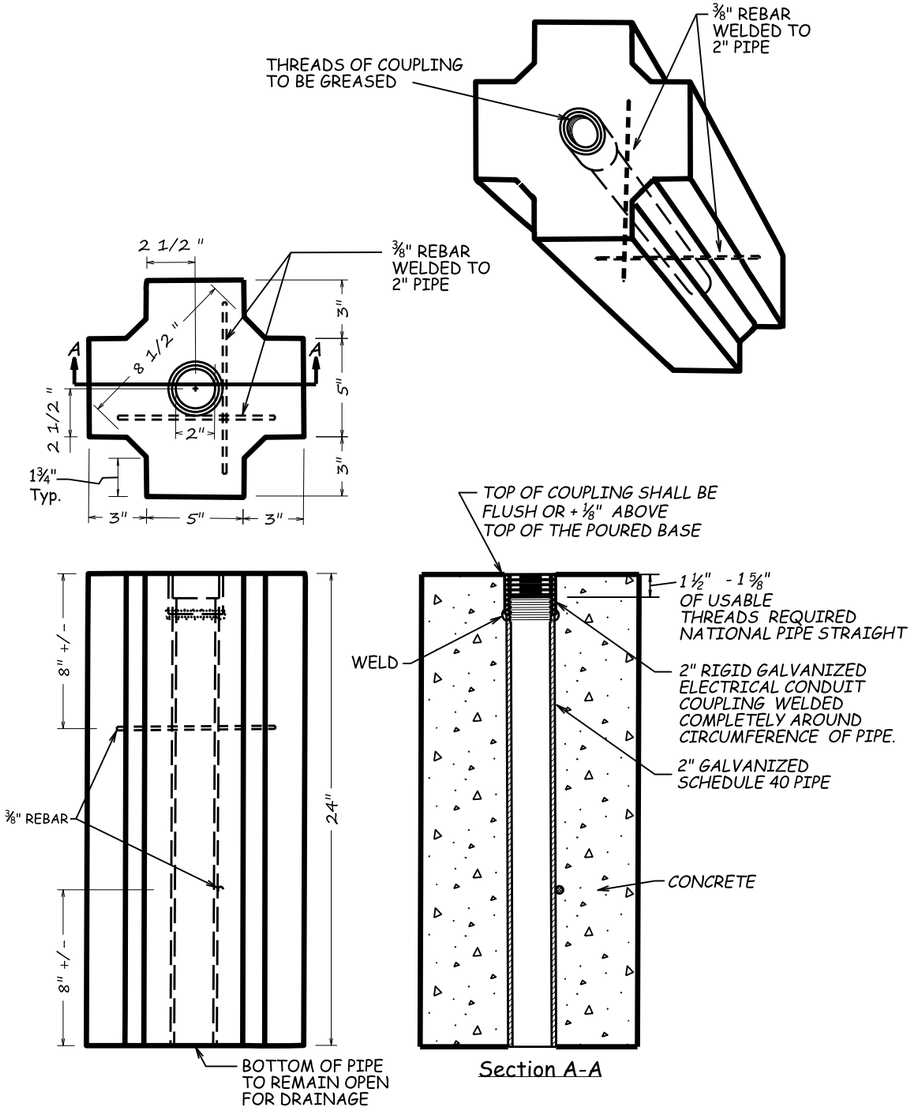
NOT TO SCALE



NOTES:
1. CURB & GUTTER DIMENSIONS MIRRORED ON LEFT SIDE
2. INSTALL WHEN FACE-OF-CURB TO FACE-OF-CURB DIMENSION IS LESS THAN 2.5'.

MONOLITHIC CONCRETE MEDIAN DETAIL

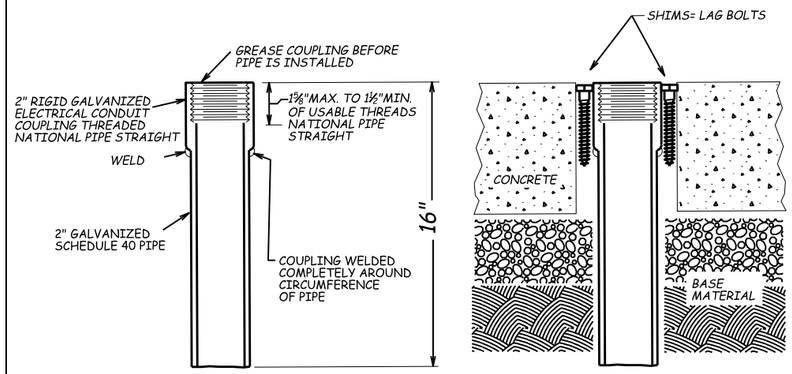
NOT TO SCALE



NOTES
1. MINIMUM CONCRETE STRENGTH TO BE 3200 PSI IN 28 DAYS
2. TOP OF BASE TO HAVE SMOOTH FINISH
3. CONCRETE TO BE VIBRATED IN FORM TO REMOVE AIR POCKETS

PRECAST SIGN POST BASE DETAIL

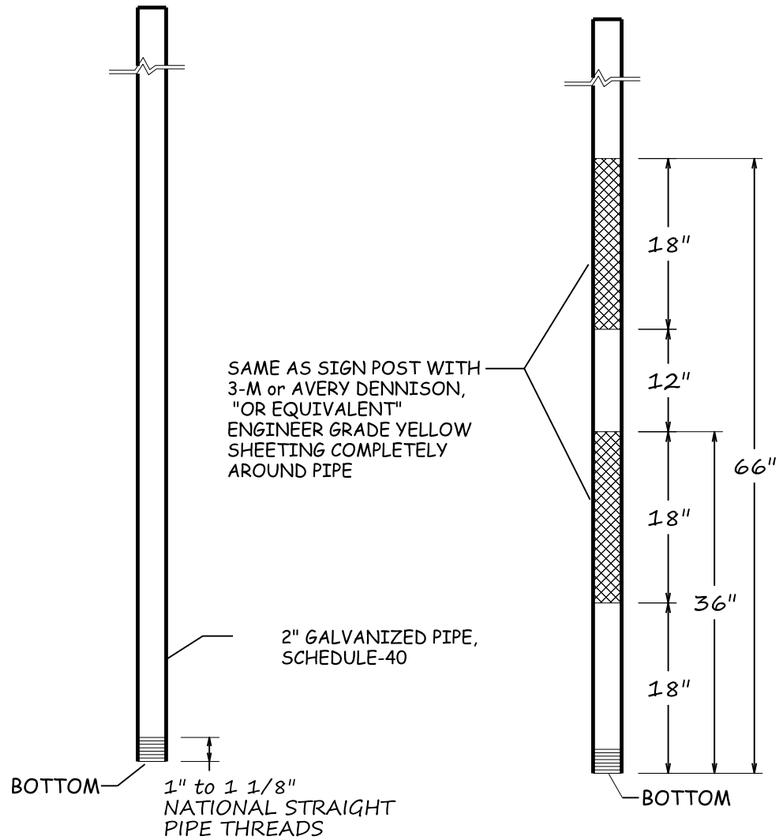
NOT TO SCALE



SIGN POST PIPE INSERT IN CONCRETE INSTALLATION:
Drill or core drill 3 1/8" hole all the way through the concrete to the base material. Temporarily hand-tighten a threaded pipe about 4 feet long into the insert (see Insert detail). Drive the insert into the base material at a level/plumb position until the insert is flush with the top of the concrete. Shim insert to a level/plumb position using various sizes of lag bolts. Remove temporary pipe, install permanent pipe. Use large pipe wrench to tighten until insert turns, then reset shims/or add shims until pipe no longer turns. Re-tighten pipe, recheck level/plumb/top of concrete with insert.
Mix up a batch of waterproof anchoring cement for concrete that has a compressive strength of 8000psi at 28 days. The anchoring cement should be mixed up to a liquid consistency, not a paste. Pour the anchoring cement between the concrete and outside of the pipe, until flush with the top of the insert. Quickly recheck insert for level/plumb/top of concrete since the anchoring cement is fast-setting. May need to add more anchoring cement as it settles. Installation needs to be level/plumb, solid and strong when completed.

SIGN POST BASE FOR CONCRETE INSTALLATION

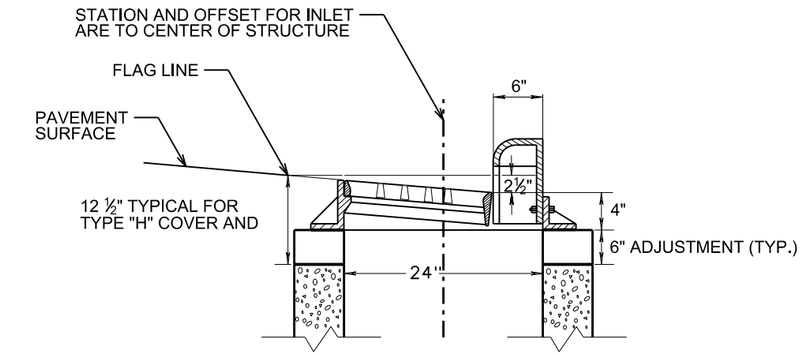
NOT TO SCALE



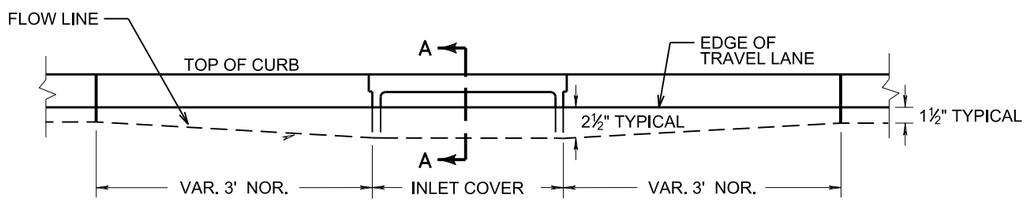
SIGN POST

REFLECTIVE SIGN POST

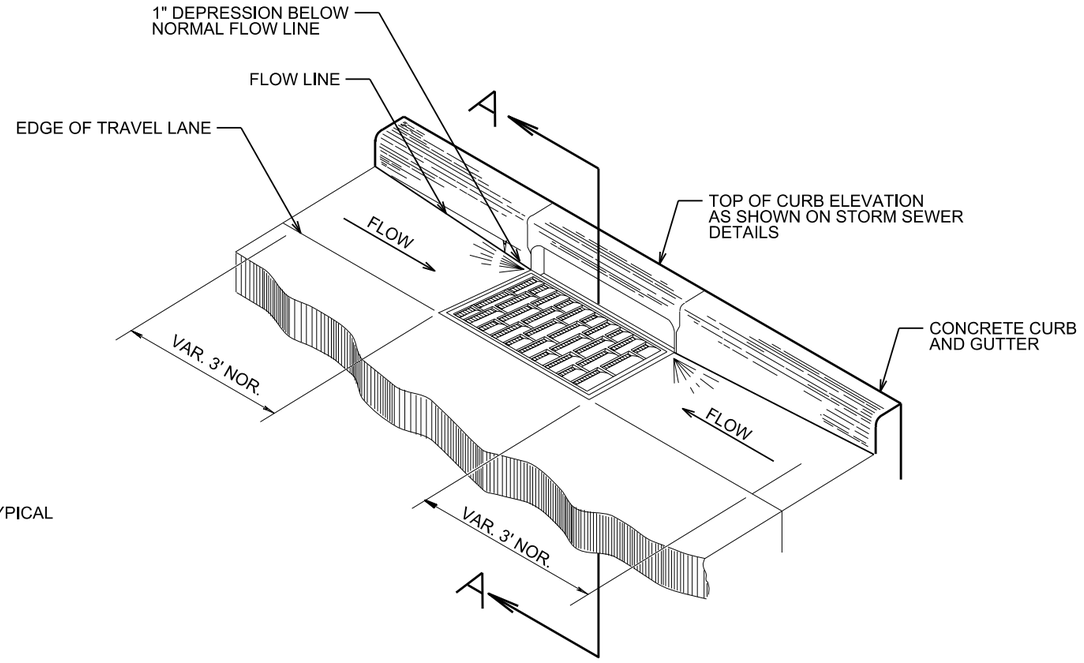
(TRUCK ROUTE STREETS ONLY)



SECTION A-A

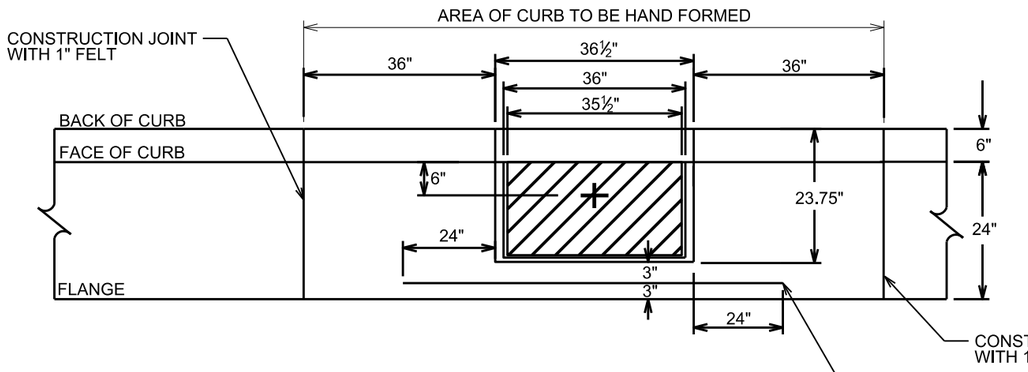


ELEVATION VIEW

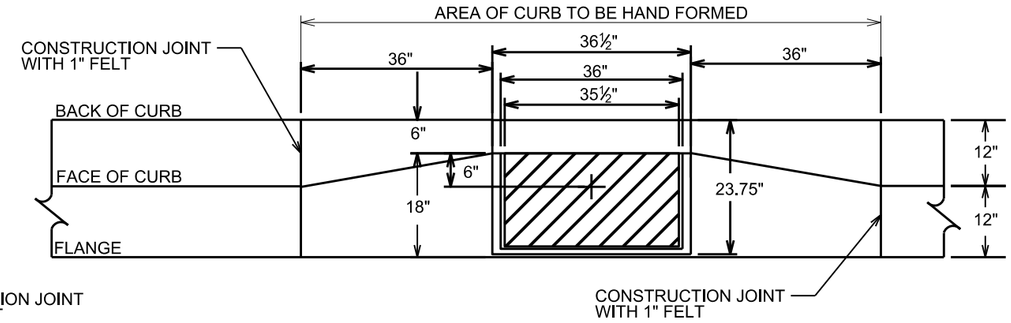


CURB AND GUTTER AT INLET DETAIL
SCALE: NONE

\+ = CENTER OF STRUCTURE (STATION AND OFFSET AS INDICATED ON THE STORM SEWER PLANS)



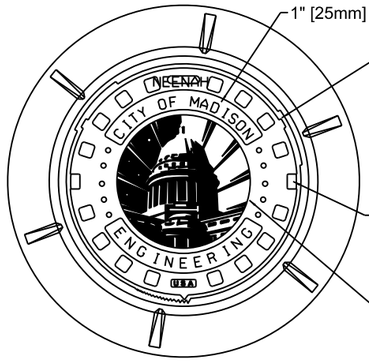
CONCRETE CURB AND GUTTER 30-INCH TYPE D SPECIAL
PLAN VIEW



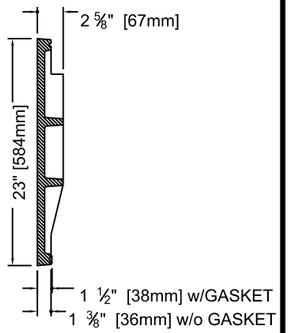
CONCRETE CURB AND GUTTER 24-INCH TYPE D SPECIAL
PLAN VIEW

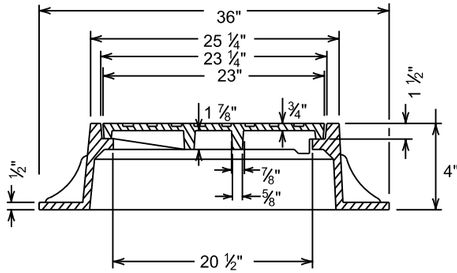
CURB AND GUTTER AT INLET DETAIL
SCALE: NONE

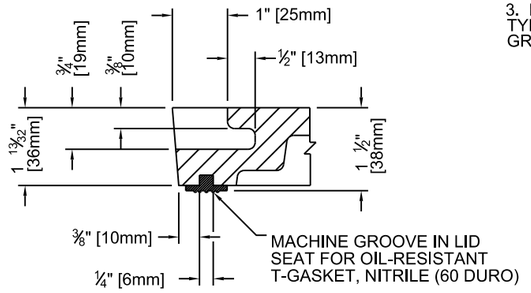
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 20	E



LOGO DETAIL







T-SEAL GASKET / CONCEALED PICK DETAIL

NOTES:
APPROXIMATE TOTAL WEIGHTS:
R-1550 w/ LOGO LID 1550-0054, 9" FRAME AND LID = 265 LBS.
R-1689 w/ LOGO LID 1550-0054, 4" FRAME AND LID = 279 LBS.

IF LOCKABLE LID IS NECESSARY, R-1920, 83/4" FRAME AND LID = 300 LBS
THERE IS NO CITY OF MADISON LOGO LID AVAILABLE FOR THIS FRAME AND CASTING.

THE FOLLOWING NEENAH FOUNDRY CASTINGS (OR EQUAL CASTINGS) SHALL BE ACCEPTABLE:

1. R-1550, 9" NON-ROCKING ACCESS STRUCTURE FRAME.

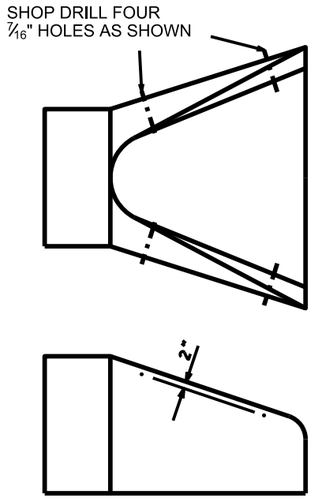
2. R-1689, 4" NON-ROCKING ACCESS STRUCTURE FRAME (WHEN REQUESTED BY THE CITY CONSTRUCTION ENGINEER).

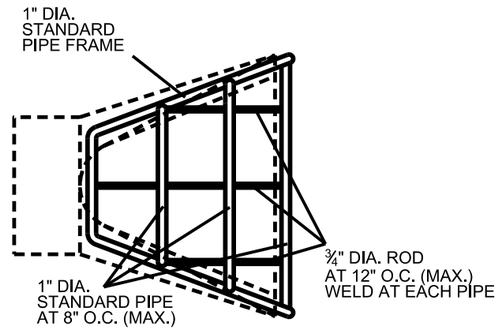
3. R-1920, 83/4" ACCESS STRUCTURE FRAME WITH LOCKING LID, TYPE 'F' LOCKS, AND CONCEALED PICK HOLES. TO BE USED IN GREENWAYS AND EASEMENTS.

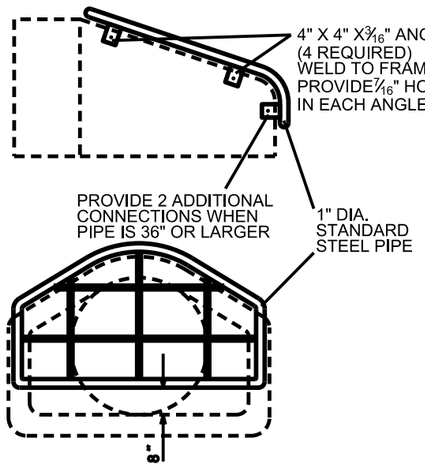
1. FRAME AND COVER SHALL BE MACHINED AND FITTED SO THAT ROCKING AND CHATTERING WILL BE ELIMINATED.
2. ALL LIDS SHALL BE SELF-SEALING EXCEPT FOR STORM SEWER.
3. ALL LIDS SHALL HAVE CITY OF MADISON LOGO AS SHOWN IN DETAIL (R-1550-0054 OR EQUIV.)

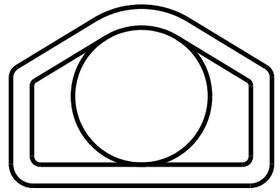
LID NOTES: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND [METRIC]
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B

MANHOLE COVERS TYPE J SPECIAL
SCALE: NONE



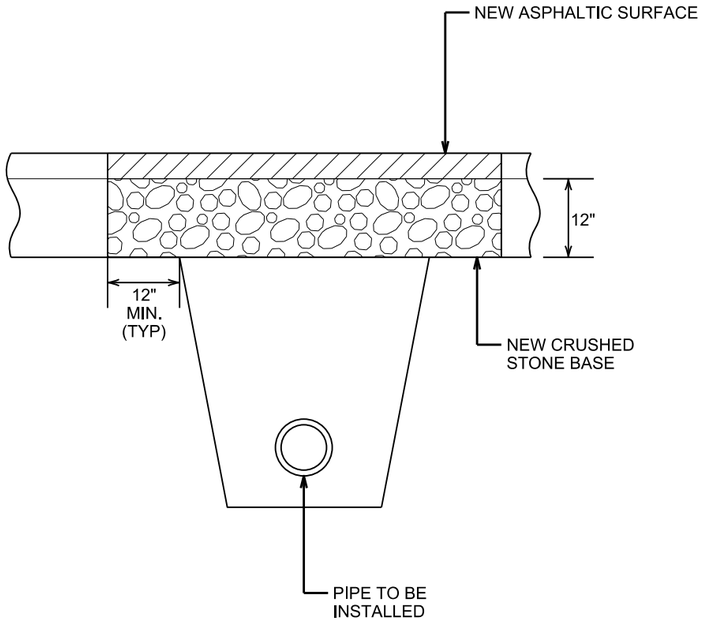






THE CONTRACTOR SHALL BOLT THE PIPE GATE TO THE CONCRETE ENDWALL WITH FOUR 3/8" X 6" MACHINE BOLTS WITH NUTS ON INSIDE WALL.

PIPE GRATES DETAIL
SCALE: NONE



THE PATCH SHALL BE CRUSHED STONE BASE COURSE, GRADATION NO. 2 OVERLAID WITH ASPHALT UPPER LAYER EQUAL IN THICKNESS TO THE EXISTING ASPHALTIC PAVEMENT,WITH A MINIMUM THICKNESS OF 3.5" AND A MAXIMUM THICKNESS OF 6" UNLESS OTHERWISE SPECIFIED AND LAID IN ONE OR MORE COURSES AS DIRECTED BY THE ENGINEER.

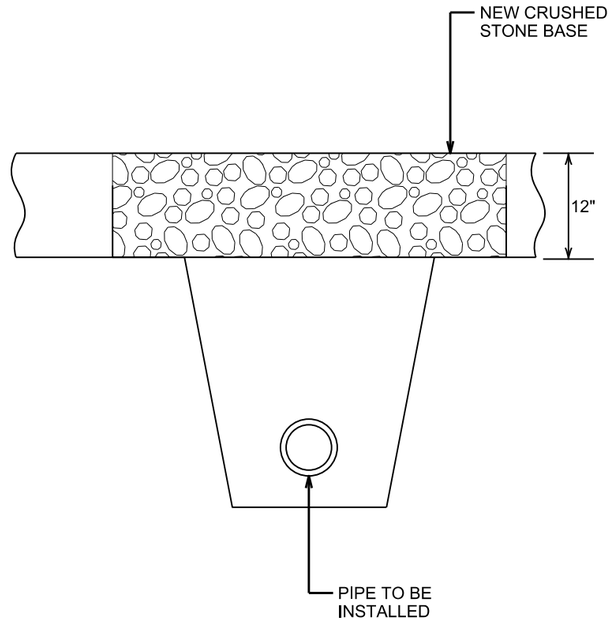
THE PAVEMENT ALONG THE PATCH SHALL BE SAWCUT, FULL DEPTH, AND INCIDENTAL TO THE TRENCH PATCH. THE EDGES OF THE EXISTING ASPHALTIC PAVEMENT SHALL BE FREE OF LOOSE STONES OR PAVEMENT MATERIAL.

THE CRUSED STONE BASE COURSE SHALL BE INSTALLED IN TWO LIFTS. THE LOWER LIFT SHALL BE THOROUGHLY MECHANICALLY COMPACTED PRIOR TO PLACING THE UPPER LIFT.

THE ASPHALT UPPER LAYER SHALL BE LAID IN TWO LIFTS. THE ASPHALT UPPER LAYER SHALL BE MACHINE LAID WHERE DIRECTED BY THE ENGINEER. WHERE THE ASPHALTIC UPPER LAYER IS MACHINE LAID AND IS NOT MORE THAN 3" IN THICKNESS, THE ASPHALT SURFACE COURSE MAY BE IN ONE LIFT.

PRIOR TO PLACING THE ASPHALT UPPER LAYER, THE EDGES OF THE PATCH AND THE SURFACE OF THE CRUSED STONE BASE SHALL BE TACKED AND PRIMED WITH LIQUID ASPHALT.

UTILITY TRENCH PATCH TYPE III
SCALE: NONE

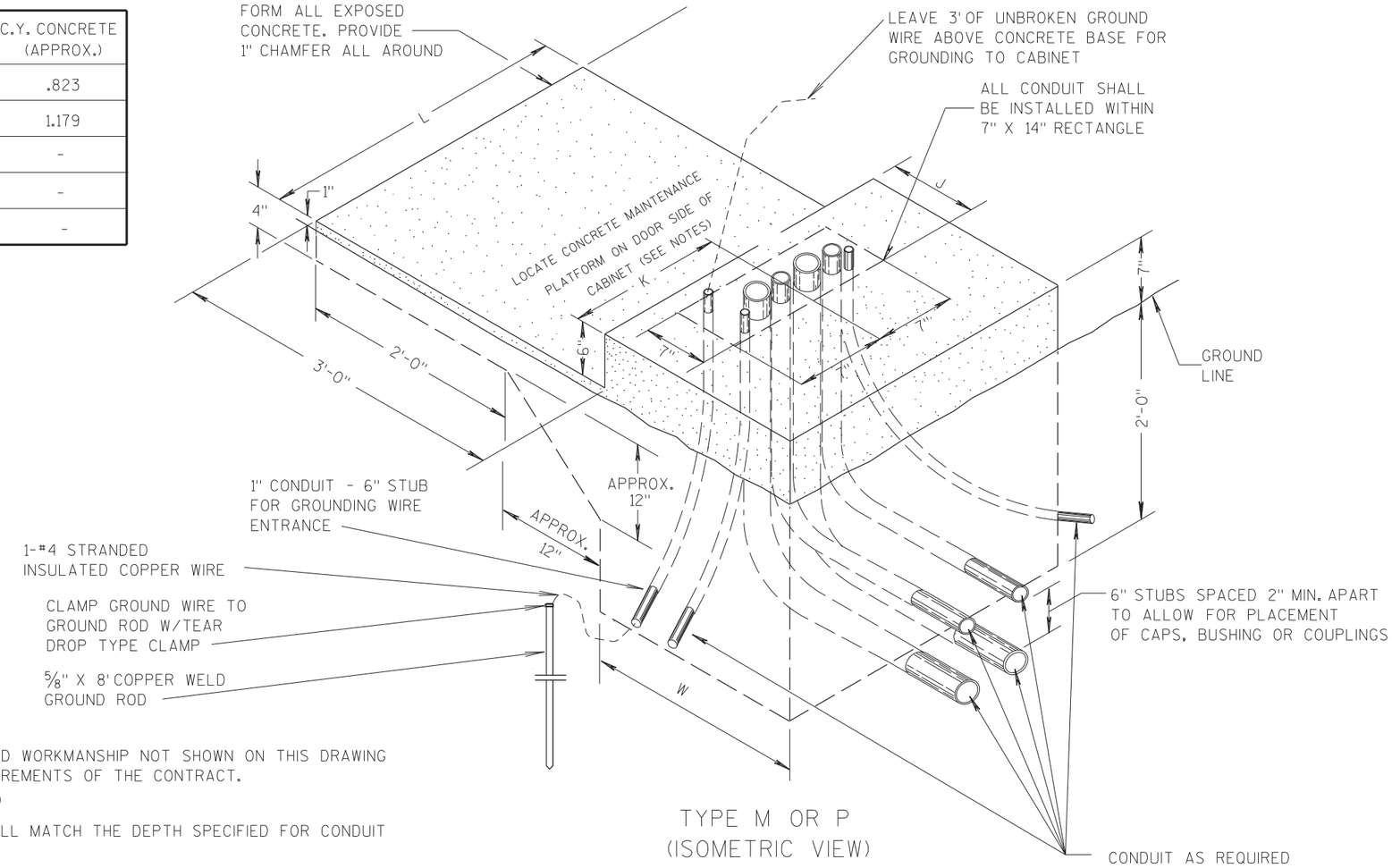


THE PATCH SHALL BE 12" CRUSHED STONE BASE COURSE, GRADATION NO. 2. FULL DEPTH SAWCUTTING OF ADJACENT PAVEMENT (IF ANY) SHALL BE CONSIDERED INCIDENTAL TO THE TRENCH PATCH.

THE CRUSHED STONE BASE COURSE SHALL BE INSTALLED IN THREE LIFTS. EACH LIFT SHALL BE THOROUGHLY MECHANICALLY COMPACTED PRIOR TO PLACING SUCCEEDING LIFTS.

UTILITY TRENCH PATCH TYPE IV
SCALE: NONE

CONTROL CABINET BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	L	W	J	K	
TYPE M	40"	30"	12"	20"	.823
TYPE P	48"	30"	16"	24"	1.179
TYPE M MODIFIED	-	-	-	-	-
TYPE P MODIFIED	-	-	-	-	-
TYPE OTHER	-				-



TYPE M OR P
(ISOMETRIC VIEW)

CONCRETE CONTROL CABINET BASES

GENERAL NOTES

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

ALL CONDUIT SHALL BE PVC, SCHEDULE 40

DEPTH OF CONDUIT EXITING THE BASE SHALL MATCH THE DEPTH SPECIFIED FOR CONDUIT INSTALLATION.

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 AND LEVEL.

MAINTENANCE PLATFORM SHALL NOT BE INSTALLED WHEN THE SURROUNDING AREA IS PAVED.

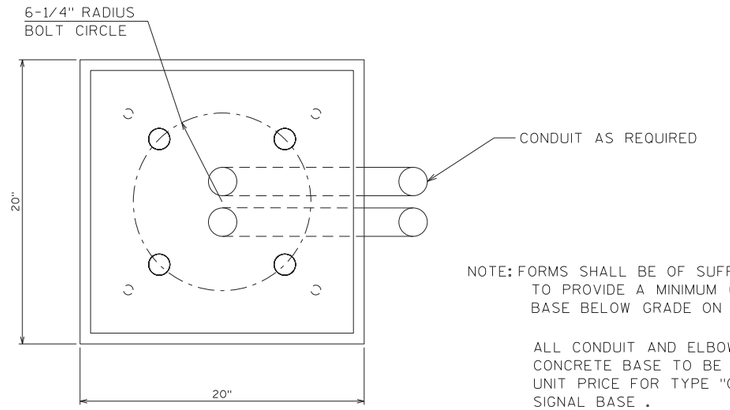
MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

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

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

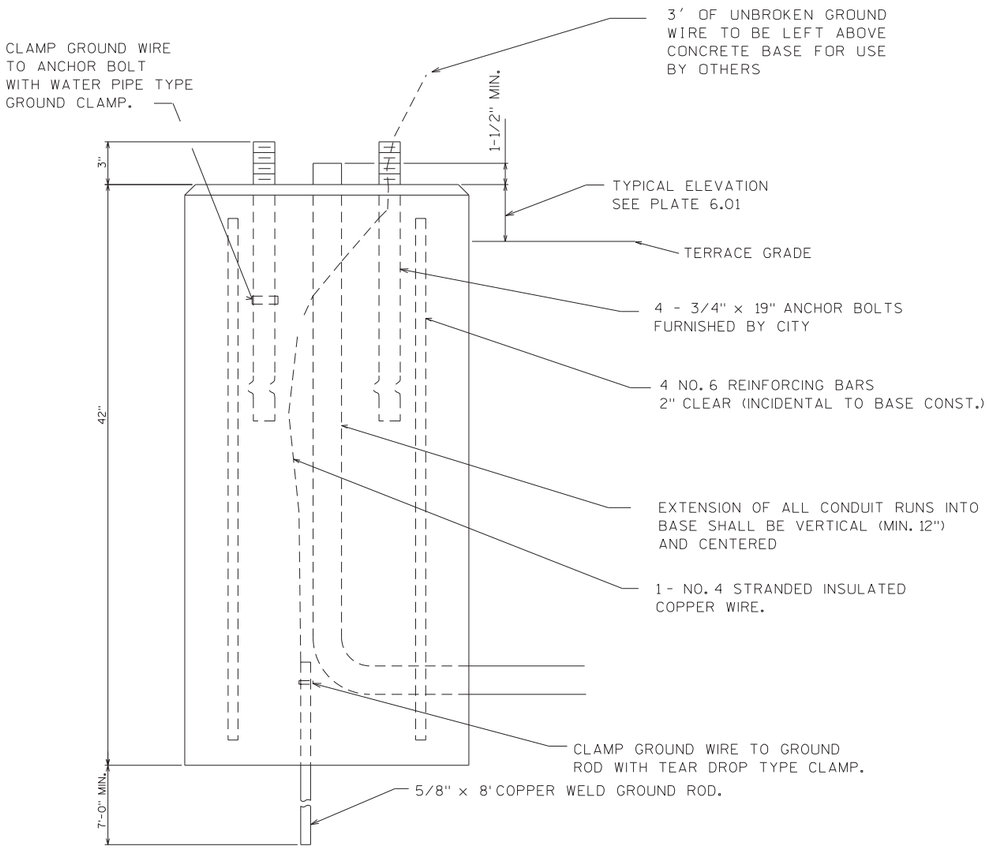
CONDUITS SHALL EXIT THE BASE IN THE DIRECTION OF THE STRUCTURE IT IS TERMINATING INTO.

MAINTENANCE PLATFORM SIZE MAY VARY ON ACCOUNT OF CONDITIONS. VERIFY THE MAINTENANCE PLATFORM SIZE WITH ENGINEER PRIOR TO POURING BASE.

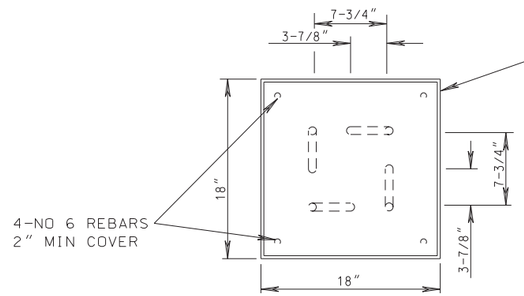


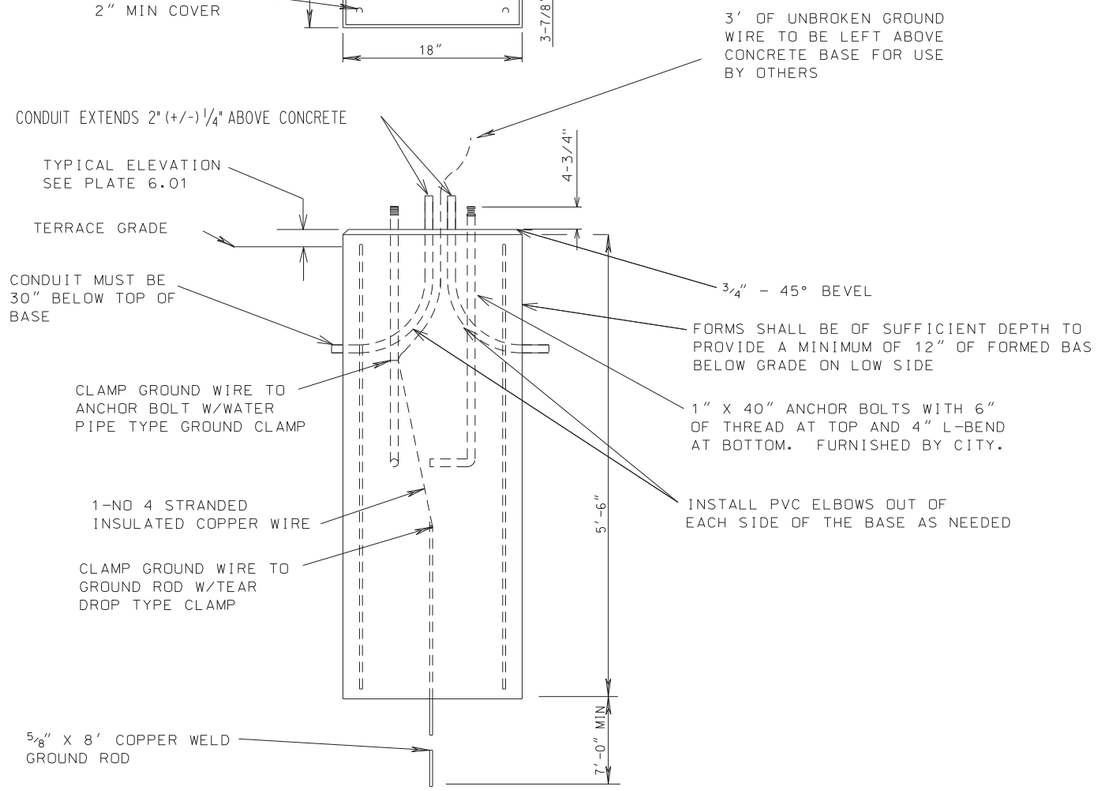
NOTE: FORMS SHALL BE OF SUFFICIENT DEPTH TO PROVIDE A MINIMUM OF 12" OF FORMED BASE BELOW GRADE ON THE LOW SIDE.

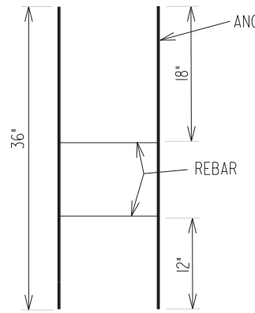
ALL CONDUIT AND ELBOWS SHOWN IN CONCRETE BASE TO BE INCLUDED IN UNIT PRICE FOR TYPE "G" TRAFFIC SIGNAL BASE .



TYPE G BASE







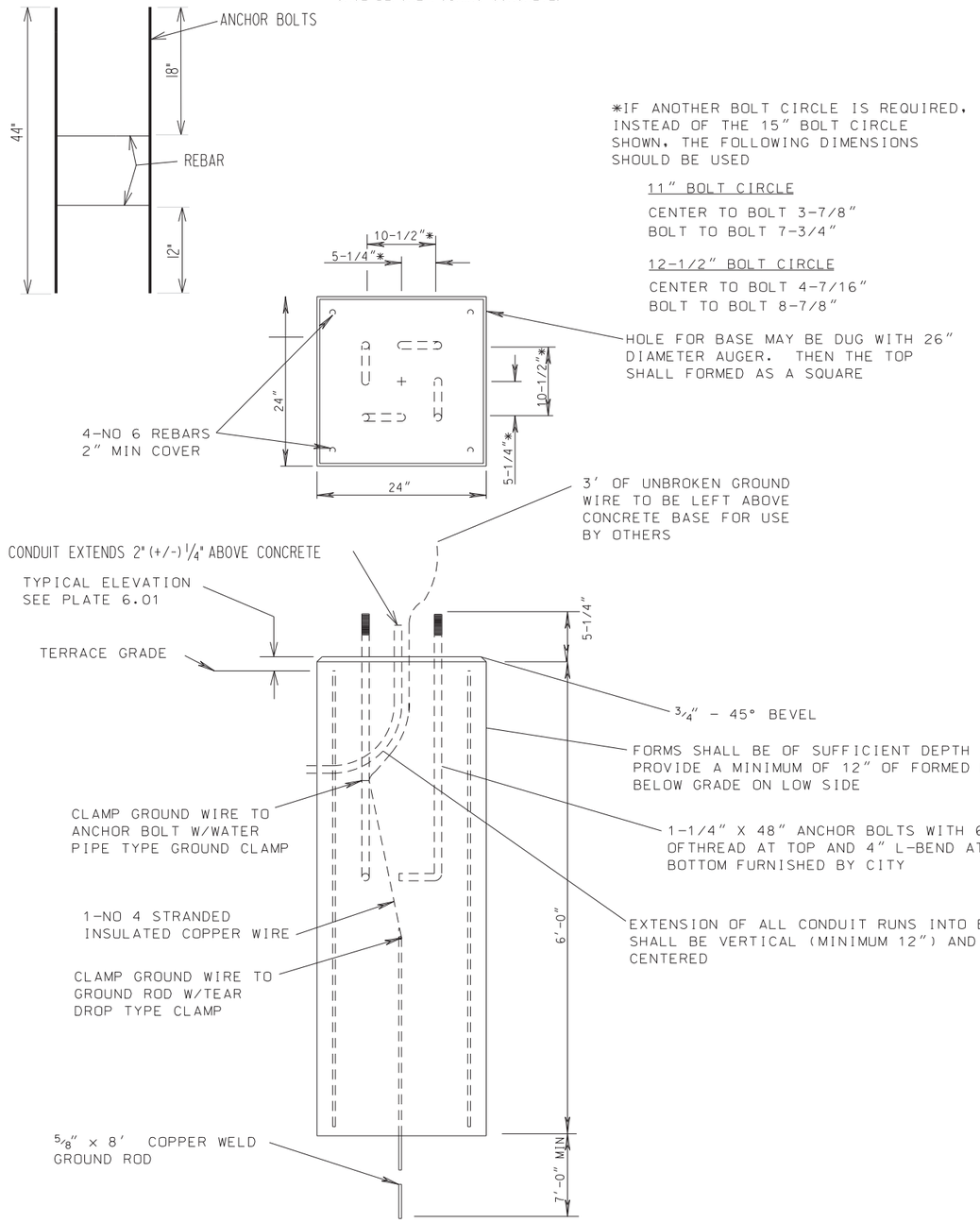
HORIZONTAL REBAR SHALL BE TACK WELDED OR WIRED TO ANCHOR BOLTS TO FORM ANCHOR BOLT CAGE BEFORE POURING CONCRETE.

TYPE LB-3 BASE

2

TYPE LB-8 BASE

HORIZONTAL REBAR SHALL BE TACK WELDED OR WIRED TO ANCHOR BOLTS TO FORM ANCHOR BOLT CAGE BEFORE POURING CONCRETE.



*IF ANOTHER BOLT CIRCLE IS REQUIRED, INSTEAD OF THE 15" BOLT CIRCLE SHOWN, THE FOLLOWING DIMENSIONS SHOULD BE USED

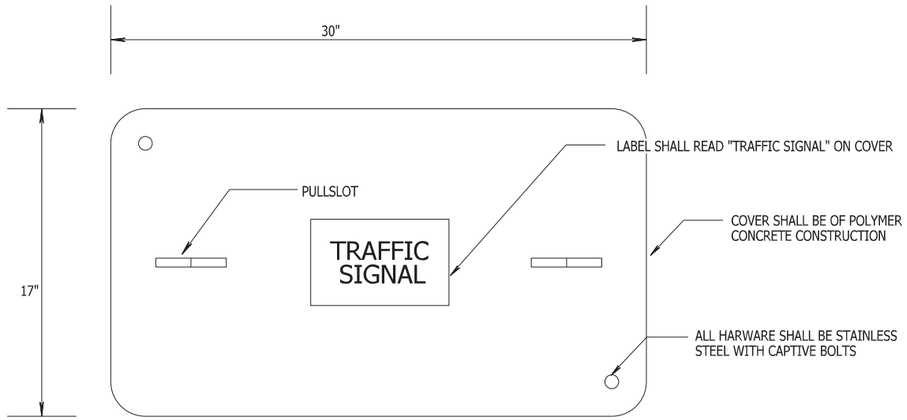
11" BOLT CIRCLE

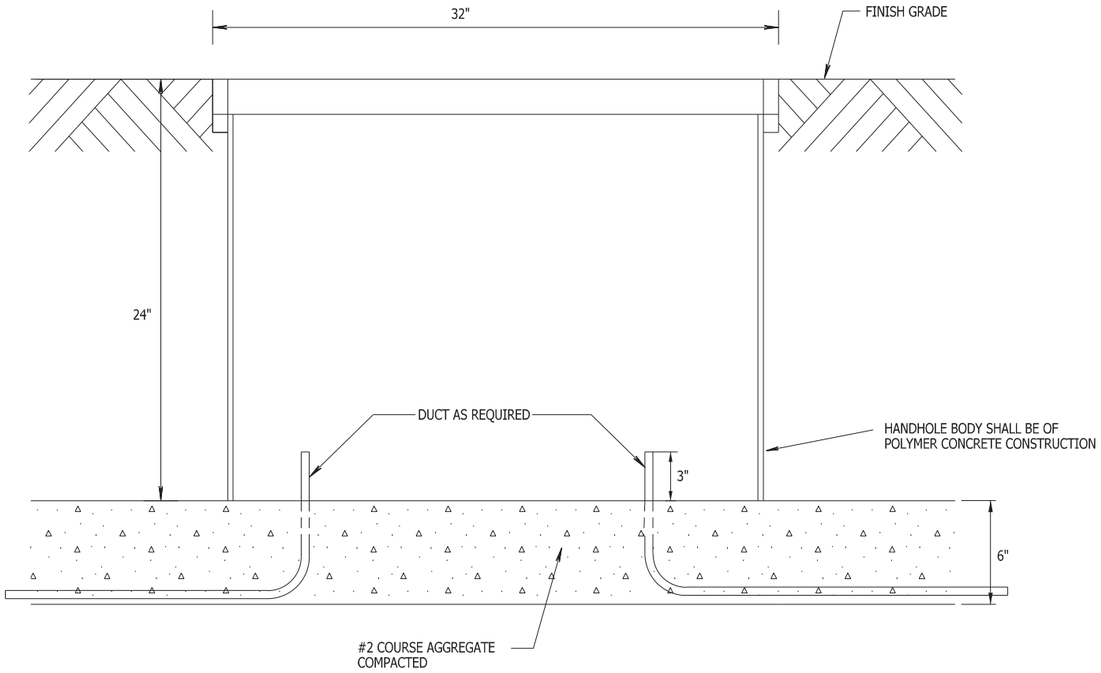
CENTER TO BOLT 3-7/8"
BOLT TO BOLT 7-3/4"

12-1/2" BOLT CIRCLE

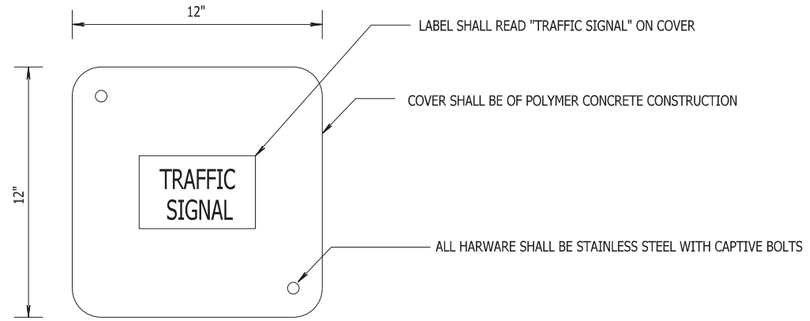
CENTER TO BOLT 4-7/16"
BOLT TO BOLT 8-7/8"

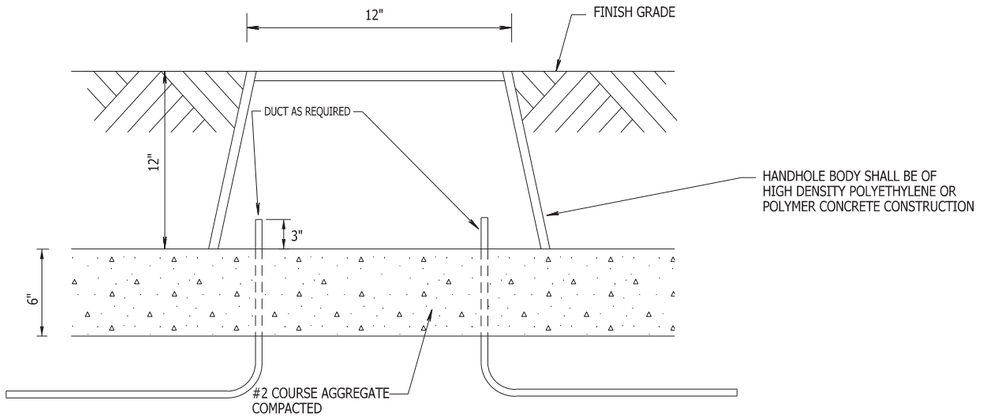
HOLE FOR BASE MAY BE DUG WITH 26" DIAMETER AUGER. THEN THE TOP SHALL FORMED AS A SQUARE





TYPE I ELECTRICAL PULLBOX

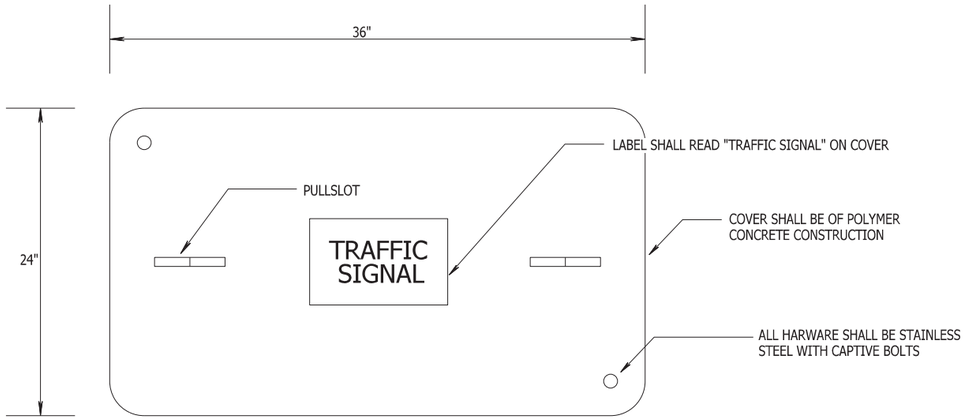


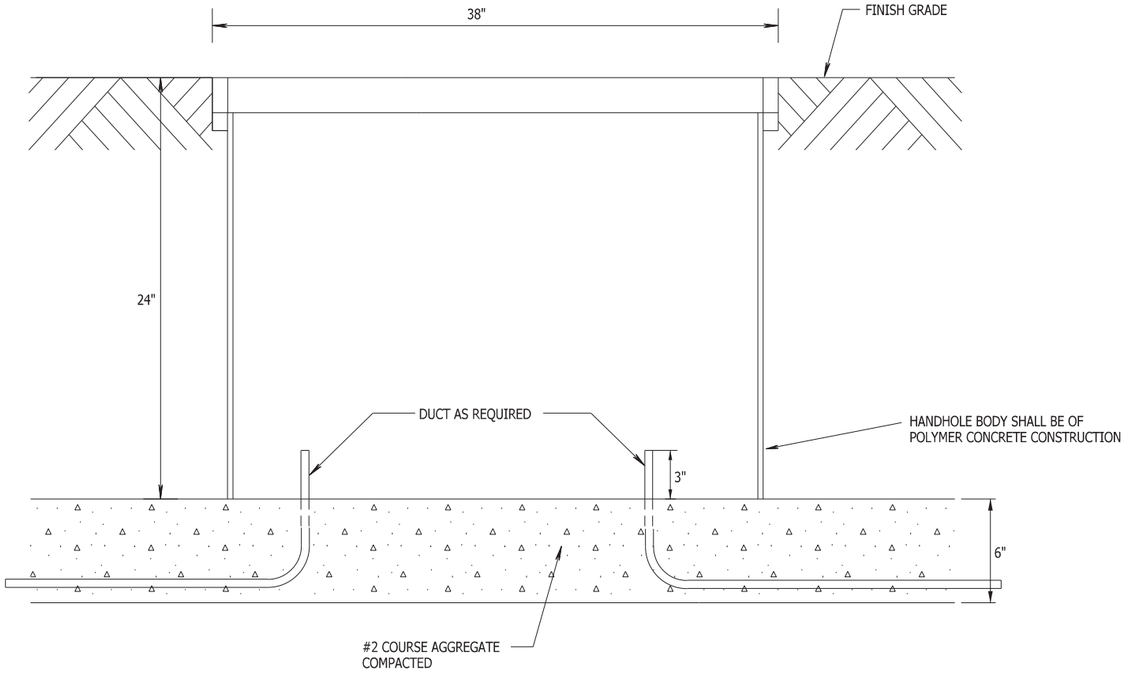


TYPE III ELECTRICAL PULLBOX

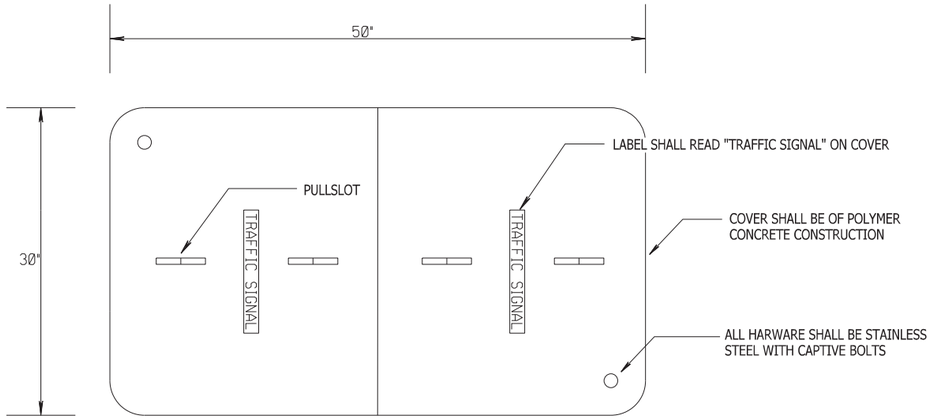
2

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS DETAILS - TYPE I AND TYPE III ELECTRICAL PULLBOXES	SHEET 26	E

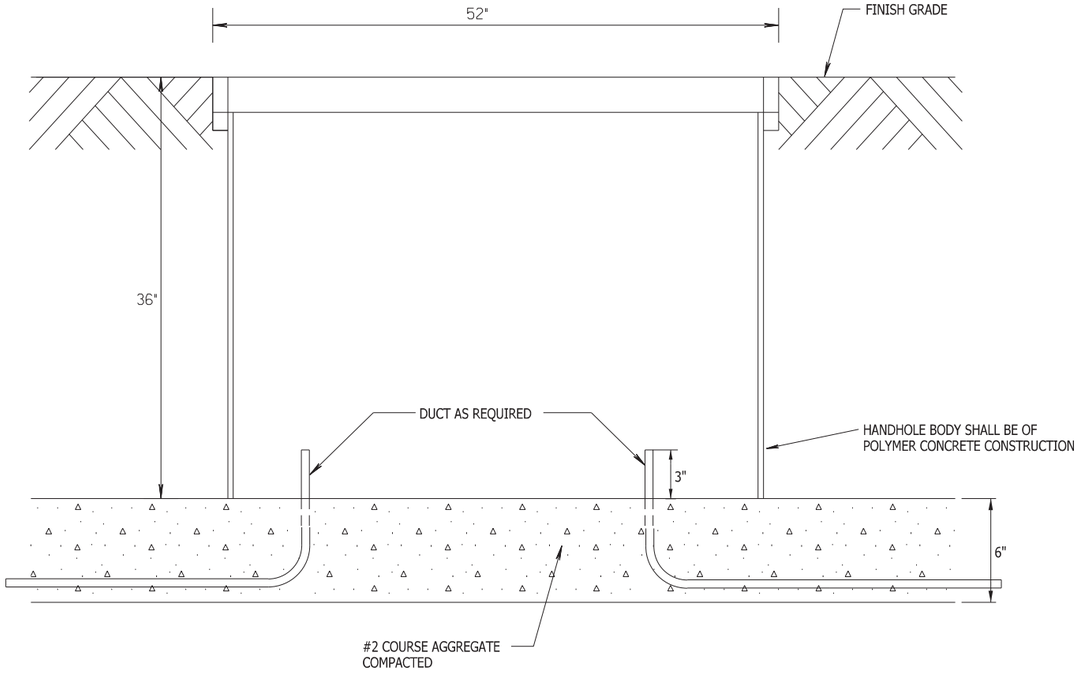




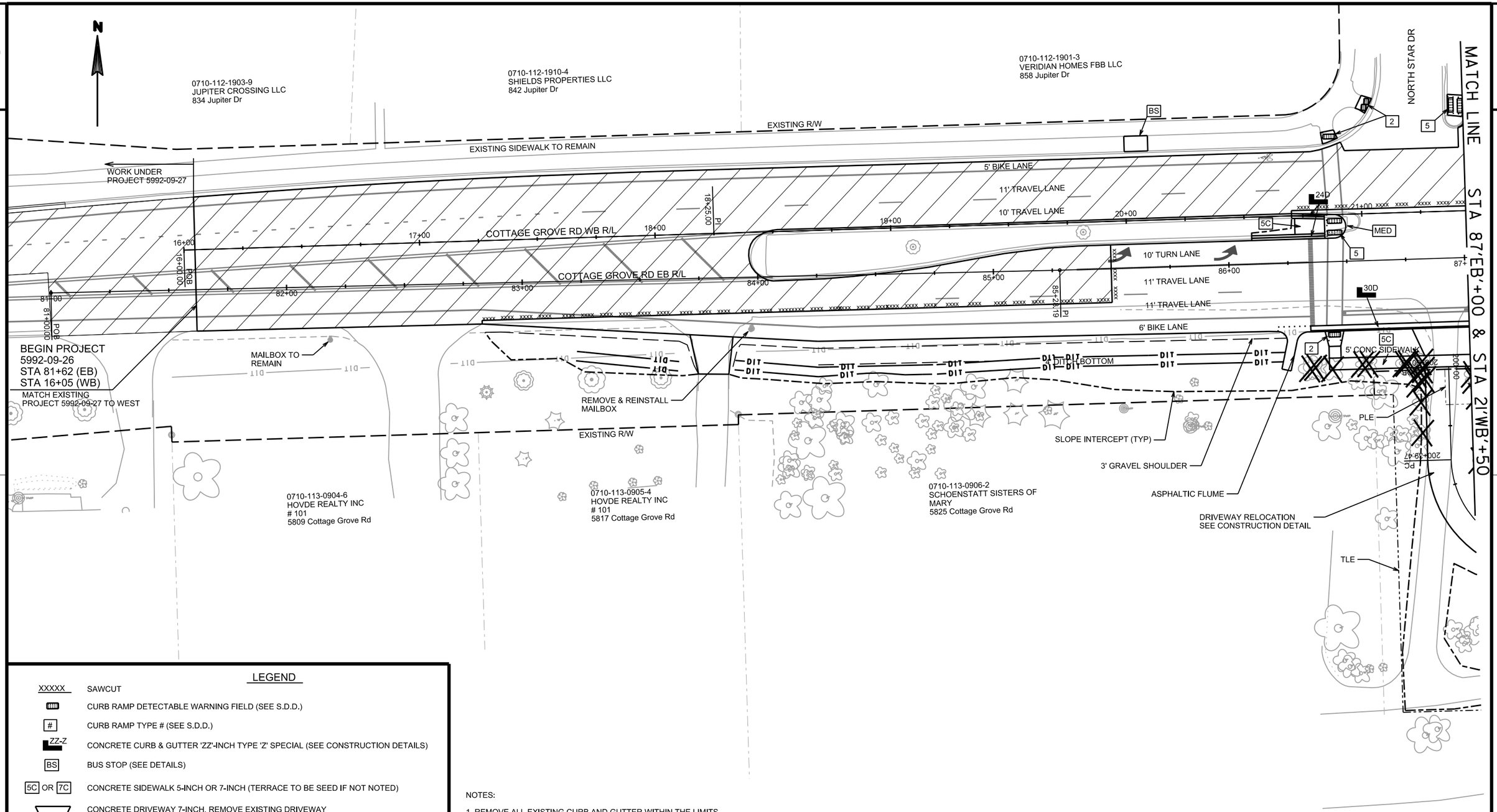
TYPE V ELECTRICAL PULLBOX



*15,000 LBS MAXIMUM LOAD OVER A 10'X10' TEST AREA RATING FOR COVER AND BOX



TYPE VII ELECTRICAL PULLBOX



LEGEND

XXXXX	SAWCUT
	CURB RAMP DETECTABLE WARNING FIELD (SEE S.D.D.)
#	CURB RAMP TYPE # (SEE S.D.D.)
ZZ-Z	CONCRETE CURB & GUTTER 'ZZ'-INCH TYPE 'Z' SPECIAL (SEE CONSTRUCTION DETAILS)
BS	BUS STOP (SEE DETAILS)
5C OR 7C	CONCRETE SIDEWALK 5-INCH OR 7-INCH (TERRACE TO BE SEED IF NOT NOTED)
	CONCRETE DRIVEWAY 7-INCH, REMOVE EXISTING DRIVEWAY
MED	CONCRETE MEDIAN NOSE (SEE DETAILS)
	REMOVE TREE (CLEAR & GRUB)
	MILL & OVERLAY
CT	CURB TRANSTION (SEE NOTE 4)

NOTES:

1. REMOVE ALL EXISTING CURB AND GUTTER WITHIN THE LIMITS OF THE PROPOSED CURB AND GUTTER.

2. REMOVE ALL EXISTING SIDEWALK WITHIN THE LIMITS OF THE PROPOSED SIDEWALK.

3. SIDEWALK CONSTRUCTED THROUGH DRIVEWAYS IS TO BE CONCRETE SIDEWALK 7-INCH.

4. CURB TRANSTIONS OVER 6' BETWEEN FULL CURB HEIGHT AND ADJACENT PAVEMENT EDGE ELEVATION. CURB TRANSITIONS ARE INCLUDED WITH THE CURB AND GUTTER ITEM.

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PLAN DETAILS - COTTAGE GROVE RD.	SHEET 28	E

2

NORTH STAR DR

ASPHALT PAVEMENT ONLY
EXISTING BASE AGGREGATE
TO REMAIN

30X

30D

0710-112-2502-8
MREC VH MADISON INVESTORS
LLC
6033 Gemini Dr

EXISTING R/W

EXISTING SIDEWALK TO REMAIN

5' BIKE LANE

10' TRAVEL LANE

11' TRAVEL LANE

COTTAGE GROVE RD WB R/L

10' TURN LANE

TURN LANE VARIES 10'-11'

11' TRAVEL LANE

10' TRAVEL LANE

4' BIKE LANE W/ 2' BUFFER

TERRACE WIDTH VARIES

TERRACE WIDTH VARIES

TERRACE WIDTH VARIES

5' CONCRETE SIDEWALK

12' TERRACE

EXISTING R/W

GEMINI DRIVE

0710-111-2618-5
1200 SOUTH LLC
6034 Gemini Dr

EXISTING SIDEWALK TO REMAIN

COTTAGE GROVE RD EB R/L

MATCH LINE STA 87'EB'+00 & STA 21'WB'+50

MATCH LINE STA 93'EB'+00 & STA 27'WB'+50

21+57.83 PI

22+00

23+00

24+00

25+00

25+57.83 PI

26+00

26+49.01 PI

27+00

88+00

88+28.89 PI

89+00

90+00

91+00

91+59.76 PI

92+00

93+00

24D

30'

MED

5C

7C

5

RF

2

BS

DIT

PLE

REMOVE EXISTING DRIVEWAY
INCLUDED WITH EXCAVATION COMMON
RESTORE WITH TOPSOIL & SEED

REALIGN DRIVEWAY WITH
NORTH STAR INTERSECTION
PLAN AND PROFILE

REMOVE SIGN AND LIGHTING;
REINSTALL ADJACENT TO NEW DRIVEWAY
APPROXIMATELY 140 FT. WEST TO STA 87+12.50, RT

TLE

SLOPE INTERCEPT (TYP)

0710-113-0908-8
SCHOENSTATT SISTERS OF
MARY
5901 Cottage Grove Rd

201+00

202+00

202+63

202+90.74 PT

202+92.30 PC

202+46.38 PT

202+62.84 POE

N

NOTES:

1. REMOVE ALL EXISTING CURB AND GUTTER WITHIN THE LIMITS OF THE PROPOSED CURB AND GUTTER.

2. REMOVE ALL EXISTING SIDEWALK WITHIN THE LIMITS OF THE PROPOSED SIDEWALK.

3. SIDEWALK CONSTRUCTED THROUGH DRIVEWAYS IS TO BE CONCRETE SIDEWALK 7-INCH

4. REMOVE ASPHALT FLUME. INCLUDED WITH EXCAVATION COMMON.

LEGEND

XXXXX	SAWCUT
	CURB RAMP DETECTABLE WARNING FIELD (SEE S.D.D.)
#	CURB RAMP TYPE # (SEE S.D.D.)
ZZ-Z	CONCRETE CURB & GUTTER 'ZZ'-INCH TYPE 'Z' SPECIAL (SEE CONSTRUCTION DETAILS)
BS	BUS STOP (SEE DETAILS)
5C OR 7C	CONCRETE SIDEWALK 5-INCH OR 7-INCH (TERRACE TO BE SEED IF NOT NOTED)
	CONCRETE DRIVEWAY 7-INCH, REMOVE EXISTING DRIVEWAY
MED	CONCRETE MEDIAN NOSE (SEE DETAILS)
	REMOVE TREE (CLEAR & GRUB)
	MILL & OVERLAY
RF	REMOVE ASPHALT FLUME (SEE NOTE 4)

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PLAN DETAILS - COTTAGE GROVE RD.	SHEET 29	E

2

MATCH LINE STA 93'EB'+00 & STA 27'WB'+50

MATCH LINE STA 99'EB'+00 & STA 33'WB'+50

0710-111-2616-9
1200 SOUTH LLC
6010 Cottage Grove Rd

0710-111-2616-9
1200 SOUTH LLC
6010 Cottage Grove Rd

EXISTING R/W

EXISTING SIDEWALK TO REMAIN

5' BIKE LANE

10' TRAVEL LANE

11' TRAVEL LANE

REMOVE CONC

28+00

29+00

30+00

31+00

32+00

32+85.89 PI

33+00

COTTAGE GROVE RD WB R/L

5C

24D

MED

11' TURN LANE

12' TURN LANE

94+00

95+00

96+00

97+00

98+00

99+

COTTAGE GROVE RD EB R/L

11' TRAVEL LANE

MCM

7C

30D

10' TRAVEL LANE

4' BIKE LANE W/ 2' BUFFER

8' TERRACE

TERRACE WIDTH VARIES

6' CONCRETE SIDEWALK

5' CONCRETE SIDEWALK

SHRUB

EXISTING R/W

TLE

SLOPE INTERCEPT (TYP)

TRANSITION SIDEWALK WIDTH

FENCES TO REMAIN

0710-113-0908-8
SCHOENSTATT SISTERS OF
MARY
5901 Cottage Grove Rd

0710-114-0106-6
SEMOVSKI, NEDZMI
& NERMIN SEMOVSKI
6102 Fredericksburg Ln

0710-114-0105-8
HILL, KATHRYN D
& GREGORY J CIESLEWICZ
6106 Fredericksburg Ln

0710-114-0102-4
DICKRELL, ALAN & JOAN
6110 Fredericksburg Ln

N

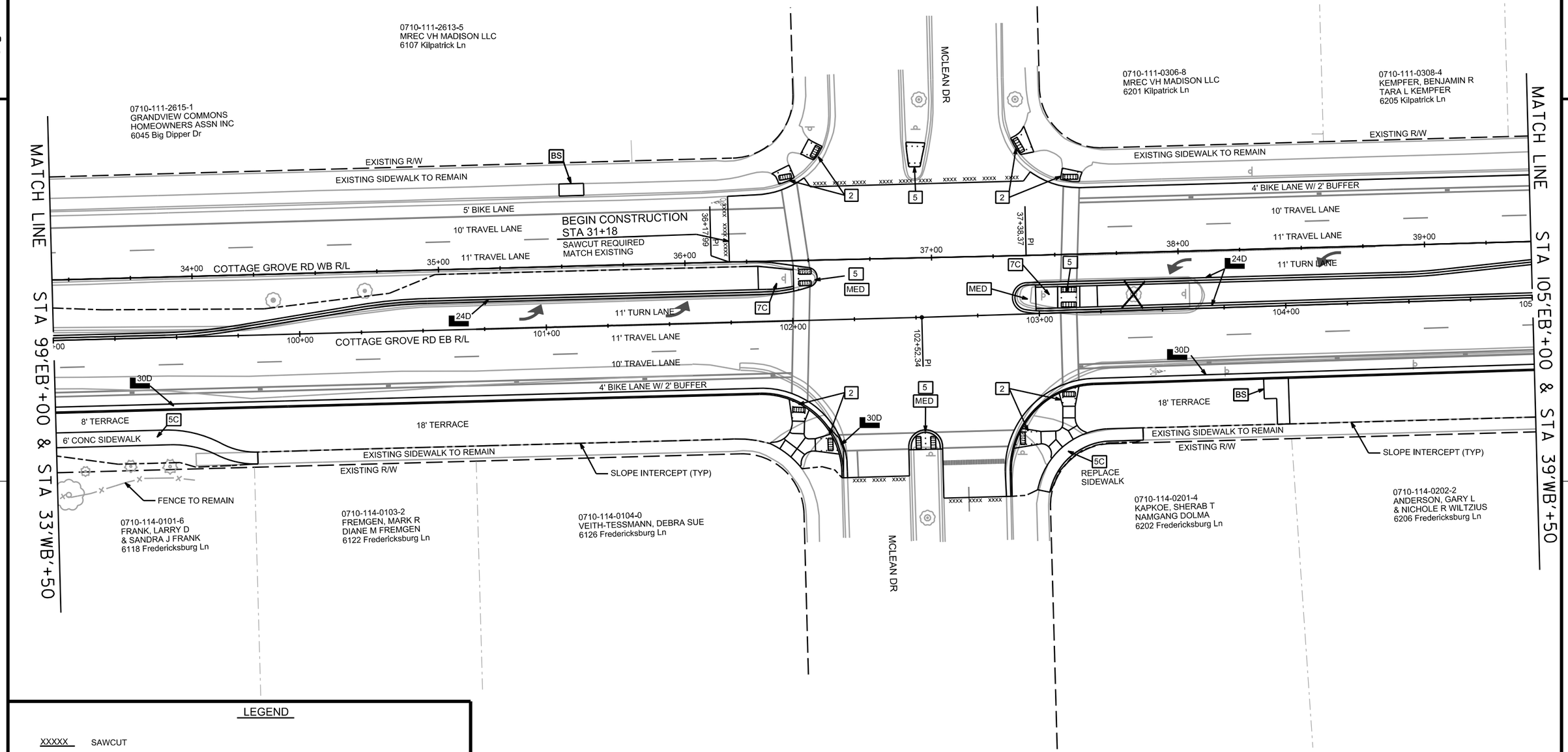
LEGEND

XXXXX	SAWCUT
	CURB RAMP DETECTABLE WARNING FIELD (SEE S.D.D.)
#	CURB RAMP TYPE # (SEE S.D.D.)
ZZ-Z	CONCRETE CURB & GUTTER 'ZZ'-INCH TYPE 'Z' SPECIAL (SEE CONSTRUCTION DETAILS)
BS	BUS STOP (SEE DETAILS)
5C OR 7C	CONCRETE SIDEWALK 5-INCH OR 7-INCH (TERRACE TO BE SEED IF NOT NOTED)
	CONCRETE DRIVEWAY 7-INCH, REMOVE EXISTING DRIVEWAY
MED	CONCRETE MEDIAN NOSE (SEE DETAILS)
	REMOVE TREE (CLEAR & GRUB)
	LANDMARK REFERENCE MONUMENT
MCM	MONOLITHIC CONCRETE MEDIAN (SEE DETAILS)

NOTES:

1. REMOVE ALL EXISTING CURB AND GUTTER WITHIN THE LIMITS OF THE PROPOSED CURB AND GUTTER.

2. REMOVE ALL EXISTING SIDEWALK WITHIN THE LIMITS OF THE PROPOSED SIDEWALK.



LEGEND

XXXXX	SAWCUT
	CURB RAMP DETECTABLE WARNING FIELD (SEE S.D.D.)
#	CURB RAMP TYPE # (SEE S.D.D.)
ZZ-Z	CONCRETE CURB & GUTTER 'ZZ'-INCH TYPE 'Z' SPECIAL (SEE CONSTRUCTION DETAILS)
BS	BUS STOP (SEE DETAILS)
5C OR 7C	CONCRETE SIDEWALK 5-INCH OR 7-INCH (TERRACE TO BE SEED IF NOT NOTED)
	CONCRETE DRIVEWAY 7-INCH, REMOVE EXISTING DRIVEWAY
MED	CONCRETE MEDIAN NOSE (SEE DETAILS)
	REMOVE TREE (CLEAR & GRUB)

N

NOTES:

1. REMOVE ALL EXISTING CURB AND GUTTER WITHIN THE LIMITS OF THE PROPOSED CURB AND GUTTER.

2. REMOVE ALL EXISTING SIDEWALK WITHIN THE LIMITS OF THE PROPOSED SIDEWALK.

2

MATCH LINE STA 105'EB'+00 & STA 39'WB'+50

MATCH LINE STA 11'EB'1+00 & STA 45'WB'+50

0710-111-0309-2
VEGA, NICOLAS & TANYA A
& IMELDA VEGA
6207 Kilpatrick Ln

0710-111-0310-9
FIX, DANIEL L
LEAH J FIX
6209 Kilpatrick Ln

0710-111-0311-7
FAIT, PATRICK
CHELSEA FAIT
6211 Kilpatrick Ln

0710-111-0312-5
MACKLEM, TODD
SARAH MACKLEM
6213 Kilpatrick Ln

0710-111-0313-3
DICKRELL, ALAN L
JOAN H DICKRELL
6215 Kilpatrick Ln

0710-111-0301-8
BIRCHWOOD RIDGE CDMS ASSN
CONDO MGMT ASSOC LLC
6227 Kilpatrick Ln

MCLELLAN DR

SLOPE INTERCEPT (TYP)

BS

EXISTING R/W

EXISTING SIDEWALK TO REMAIN

4' BIKE LANE W/ 2' BUFFER

10' TRAVEL LANE

11' TRAVEL LANE

30D

41+24.62 PI

7C

45+00

5

MED

40+00

COTTAGE GROVE RD WB R/L

41+00

42+00

43+00

44+00

24D

11' TURN LANE

111

110+00

109+00

108+00

COTTAGE GROVE RD EB R/L

107+00

106+00

+00

106+81.91 PI

11' TRAVEL LANE

10' TRAVEL LANE

4' BIKE LANE W/ 2' BUFFER

30D

2

TERRACE WIDTH VARIES

5C

5' CONCRETE SIDEWALK

REMOVE & REINSTALL
MAILBOX

TERRACE WIDTH VARIES

EXISTING SIDEWALK TO REMAIN

EXISTING R/W

SLOPE INTERCEPT (TYP)

TLE (TYP)

PROPOSED
ROW

ASPHALT
DRIVEWAY

REMOVE CONC FLUME; PAY
AS REMOVE CONC SIDEWALK

xxxx xxxx xxxx

xxxx xxxx xxxx

0710-114-0203-0
REPKA, RAQUEL A
BRIAN J BECKER
1 Fredericksburg Ct

0710-114-0204-8
FINGER, THOMAS J
& PAMELA A FINGER
5 Fredericksburg Ct

0710-114-0205-6
SEVERSIN, MICHAEL & LISA
9 Fredericksburg Ct

0710-114-1702-1
CHEN, YONG
& AMANDA LYNN CHEN
6221 Cottage Grove Rd

0710-114-1701-3
FIELDSTONE ESTATES LLC
1002 Severson Dr

SEVERSON DR

N

LEGEND

XXXXX	SAWCUT
	CURB RAMP DETECTABLE WARNING FIELD (SEE S.D.D.)
#	CURB RAMP TYPE # (SEE S.D.D.)
ZZ-Z	CONCRETE CURB & GUTTER 'ZZ'-INCH TYPE 'Z' SPECIAL (SEE CONSTRUCTION DETAILS)
BS	BUS STOP (SEE DETAILS)
5C OR 7C	CONCRETE SIDEWALK 5-INCH OR 7-INCH (TERRACE TO BE SEED IF NOT NOTED)
	CONCRETE DRIVEWAY 7-INCH, REMOVE EXISTING DRIVEWAY
MED	CONCRETE MEDIAN NOSE (SEE DETAILS)
	REMOVE TREE (CLEAR & GRUB)

NOTES:

1. REMOVE ALL EXISTING CURB AND GUTTER WITHIN THE LIMITS OF THE PROPOSED CURB AND GUTTER.

2. REMOVE ALL EXISTING SIDEWALK WITHIN THE LIMITS OF THE PROPOSED SIDEWALK.

3. SIDEWALK CONSTRUCTED THROUGH DRIVEWAYS IS TO BE CONCRETE SIDEWALK 7-INCH

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PLAN DETAILS - COTTAGE GROVE RD.	SHEET 32	E

2

MATCH LINE STA 111'EB'+00 & STA 45'WB'+50

MATCH LINE STA 117'EB'+00 & STA 51'WB'+50

DEC.

5C REPLACE EX. WALK

REMOVE CONC FLUME; PAY AS REMOVE CONC SIDEWALK

EXISTING SIDEWALK TO REMAIN

0710-111-0201-0
BIRCHWOOD RIDGE CDMS ASSN
CONDO MGMT ASSOC LLC
6319 Kilpatrick Ln

SLOPE INTERCEPT (TYP)

TLE (TYP)

EXISTING R/W

5' CONCRETE SIDEWALK

TERRACE VARIES

4' BIKE LANE & 2' BUFFER

10' TRAVEL LANE

11' TRAVEL LANE

COTTAGE GROVE RD WB R/L

COTTAGE GROVE RD EB R/L

47+51.82 PI

49+12.15 PI

112+81.49 PI

116+79.17 PI

46+00

47+00

48+00

49+00

50+00

51+00

112+00

113+00

114+00

115+00

116+00

117

+00

PROPOSED ROW

REMOVE & REINSTALL MAILBOX ADJACENT TO NEW CURB & DRIVEWAY

ASPHALT DRIVEWAY

0710-111-9810-3
LYNCH, DANIEL J
3458 COUNTY HIGHWAY BB

PED

30° DEC.

5.5' TERRACE

30X

24D

TURN LANE VARIES 11'-12'

7C

MED

11' TRAVEL/TURN LANE

30D

9' TERRACE

5' CONCRETE SIDEWALK

REMOVE BOULDERS; INCLUDED WITH EXCAVATION COMMON

REMOVE CONCRETE STEPS PAY AS REMOVE SIDEWALK

REMOVE FENCES

ASPHALT DRIVEWAY

TLE (TYP)

0710-114-1801-1
MAYWICK ESTATES CDM ASSN
ATTN TED FRANK
1001 Severson Dr #CDM

0710-114-1804-5
FIELDSTONE ESTATES LLC
STE 101
6326 Maywick Dr

0710-114-0780-5
FIRST WISCONSIN NATL BANK
3461 COUNTY HIGHWAY BB

BUILDING

EXISTING LIGHT TO REMAIN; REMOVE & RESET BOULDERS AROUND LIGHT BASE; INLCUDED WITH EXCAVATION & CONCRETE SIDEWALK WORK

N

LEGEND

XXXXX	SAWCUT
	CURB RAMP DETECTABLE WARNING FIELD (SEE S.D.D.)
#	CURB RAMP TYPE # (SEE S.D.D.)
ZZ-Z	CONCRETE CURB & GUTTER 'ZZ'-INCH TYPE 'Z' SPECIAL (SEE CONSTRUCTION DETAILS)
BS	BUS STOP (SEE DETAILS)
5C OR 7C	CONCRETE SIDEWALK 5-INCH OR 7-INCH (TERRACE TO BE SEED IF NOT NOTED)
	CONCRETE DRIVEWAY 7-INCH, REMOVE EXISTING DRIVEWAY
MED	CONCRETE MEDIAN NOSE (SEE DETAILS)
	REMOVE TREE (CLEAR & GRUB)

NOTES:

1. REMOVE ALL EXISTING CURB AND GUTTER WITHIN THE LIMITS OF THE PROPOSED CURB AND GUTTER.

2. REMOVE ALL EXISTING SIDEWALK WITHIN THE LIMITS OF THE PROPOSED SIDEWALK.

3. SIDEWALK CONSTRUCTED THROUGH DRIVEWAYS IS TO BE CONCRETE SIDEWALK 7-INCH

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PLAN DETAILS - COTTAGE GROVE RD.	SHEET 33	E

MATCH LINE STA 117'EB'+00 & STA 51'WB'+50

TLE (TYP)
PROPOSED R/W
SLOPE INTERCEPT (TYP)
EXISTING R/W
EXISTING SIDEWALK TO REMAIN
5' CONC SIDEWALK
4' BIKE LANE W/ 2' BUFFER
10' TRAVEL LANE
11' TRAVEL LANE
COTTAGE GROVE RD WB R/L
COTTAGE GROVE RD EB R/L
REMOVE & REINSTALL MAILBOX ADJACENT TO NEW CURB & DRIVE
11' TRAVEL/TURN LANE
7.5' TERRACE
5' CONCRETE SIDEWALK
10' TURN LANE
5' BIKE LANE
11' TURN LANE
ONLY
GRAVEL DRIVEWAY BASE AGGREGATE DENSE, 3/4-INCH
ASPHALT DRIVEWAY
REMOVE & REINSTALL MAILBOX ADJACENT TO NEW CURB & DRIVE
ASPHALT DRIVEWAY
REPLACE SIDEWALK
SIDEWALK CONSTRUCTED BY OTHERS
PROPOSED 2' DITCH BOTTOM
CONTAMINATED SOILS- APPROXIMATE LIMITS
PROPOSED R/W
TLE
STORMWATER MANAGEMENT BIOFILTER BASIN SEE STORM SEWER PLANS & DETAILS
MATCH LINE STA 123'EB'+00 & STA 57'WB'+50

0710-111-0205-2
STAGE TWO DEVELOPMENT LLC
6420 Cottage Grove Rd

0710-114-8040-4
HOSKING, BRIAN C
3453 COUNTY HIGHWAY BB

0710-114-8030-6
GEHRKE, RENO K
LYNNE M GEHRKE
3449 COUNTY HIGHWAY BB

0710-114-8020-8
NEUHENGEN, RICHARD
3445 COUNTY HIGHWAY BB

0710-114-1808-7
PITTZ, BRADY MICHAEL
JACQUELINE NICOLE PITTZ
1002 S Sprecher Rd

0710-126-8007-4
CITY OF MADISON ENGINEERING
ATTN: TRANSPORTATION 535
EDDIE STEENBERG
6402 Cottage Grove Rd

SPRECHER RD
16' TRAVEL LANE
15' TRAVEL LANE
11' TRAVEL LANE
11' TURN LANE
5' BIKE LANE
TURN LANE WIDTH VARIES
SHOULDER VARIES

N

XXXXX SAWCUT
CURB RAMP DETECTABLE WARNING FIELD (SEE S.D.D.)
CURB RAMP TYPE # (SEE S.D.D.)
ZZ-Z CONCRETE CURB & GUTTER 'ZZ'-INCH TYPE 'Z' SPECIAL (SEE CONSTRUCTION DETAILS)
BS BUS STOP (SEE DETAILS)
5C OR 7C CONCRETE SIDEWALK 5-INCH OR 7-INCH (TERRACE TO BE SEED IF NOT NOTED)
CONCRETE DRIVEWAY 7-INCH, REMOVE EXISTING DRIVEWAY
MED CONCRETE MEDIAN NOSE (SEE DETAILS)
REMOVE TREE (CLEAR & GRUB)
PULVERIZE & RELAY WITH 4" ASPHALT PAVEMENT OVERLAY
CT CURB TRANSTION (SEE NOTE 3)
LANDMARK REFERENCE MONUMENT

NOTES:

1. REMOVE ALL EXISTING CURB AND GUTTER WITHIN THE LIMITS OF THE PROPOSED CURB AND GUTTER.

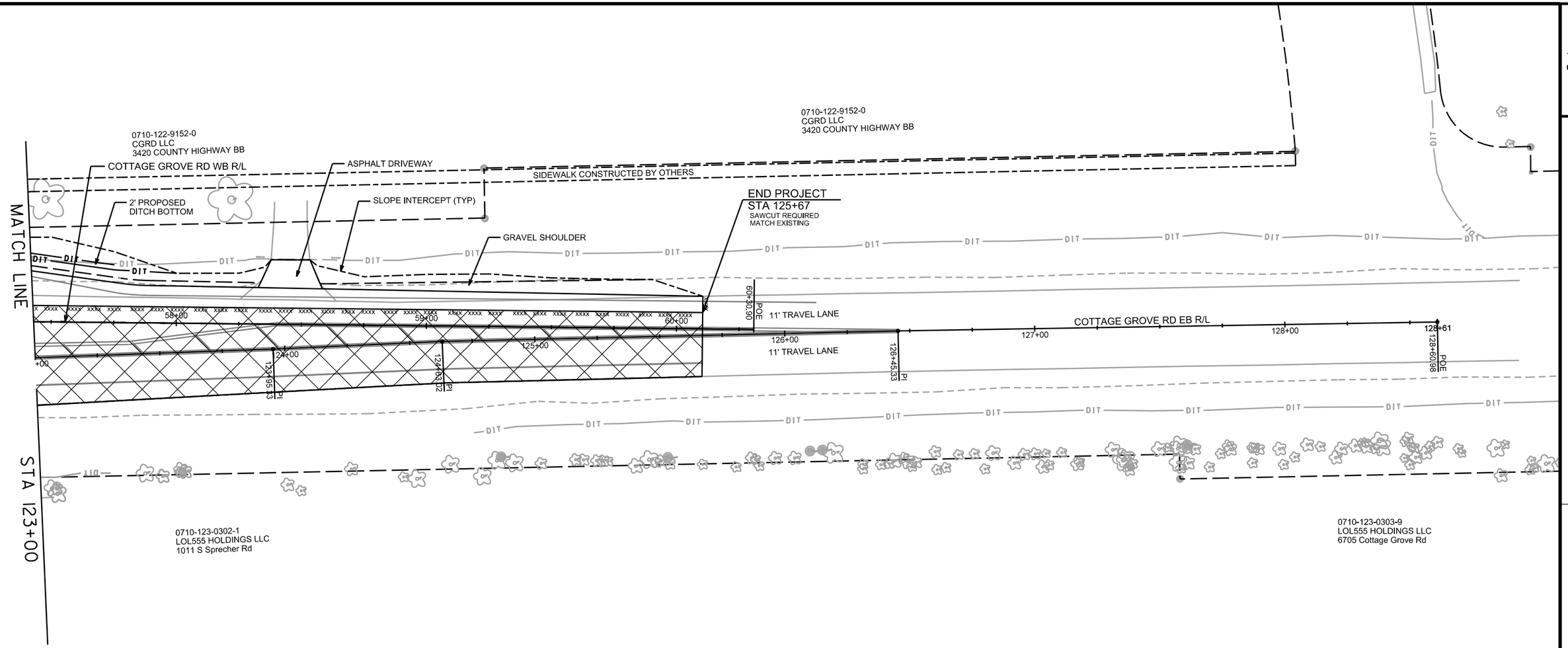
2. REMOVE ALL EXISTING SIDEWALK WITHIN THE LIMITS OF THE PROPOSED SIDEWALK.

3. CURB TRANSTIONS OVER 6' BETWEEN FULL CURB HEIGHT AND ADJACENT PAVEMENT EDGE ELEVATION. CURB TRANSITIONS ARE INCLUDED WITH THE CURB AND GUTTER ITEM.

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PLAN DETAILS - COTTAGE RD.	SHEET E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\Plan Details\53W0472EN-PlanDetail7.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 39.9999 sf / in.

2

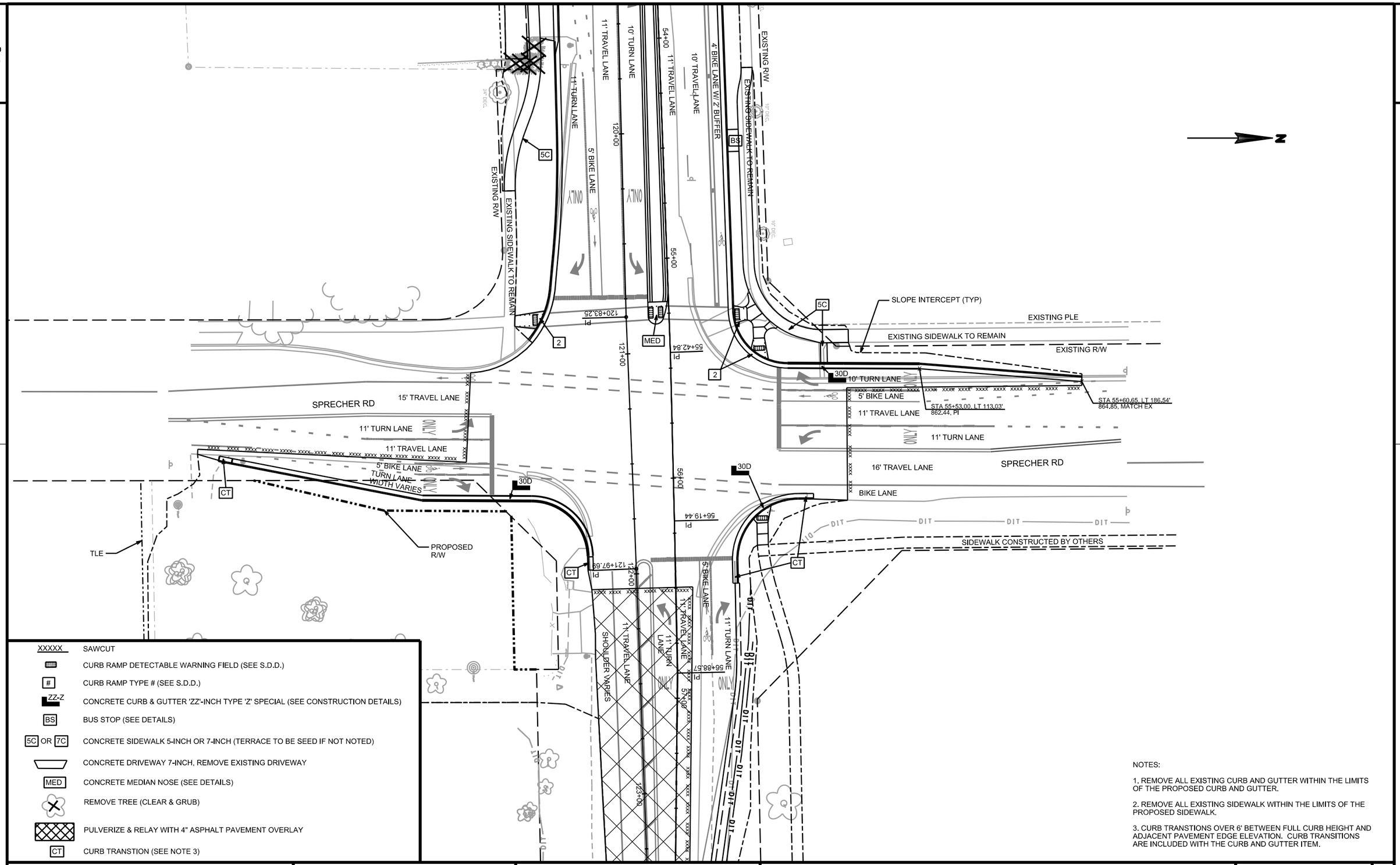


XXXXX	SAWCUT
	CURB RAMP DETECTABLE WARNING FIELD (SEE S.D.D.)
#	CURB RAMP TYPE # (SEE S.D.D.)
ZZ-Z	CONCRETE CURB & GUTTER 'ZZ'-INCH TYPE 'Z' SPECIAL (SEE CONSTRUCTION DETAILS)
BS	BUS STOP (SEE DETAILS)
5C OR 7C	CONCRETE SIDEWALK 5-INCH OR 7-INCH (TERRACE TO BE SEED IF NOT NOTED)
	CONCRETE DRIVEWAY 7-INCH, REMOVE EXISTING DRIVEWAY
MED	CONCRETE MEDIAN NOSE (SEE DETAILS)
	REMOVE TREE (CLEAR & GRUB)
	PULVERIZE & RELAY WITH 4" ASPHALT PAVEMENT OVERLAY

N

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PLAN DETAILS - COTTAGE GROVE RD.	SHEET 35 E

2



XXXXX	SAWCUT
	CURB RAMP DETECTABLE WARNING FIELD (SEE S.D.D.)
#	CURB RAMP TYPE # (SEE S.D.D.)
ZZ-Z	CONCRETE CURB & GUTTER 'ZZ'-INCH TYPE 'Z' SPECIAL (SEE CONSTRUCTION DETAILS)
BS	BUS STOP (SEE DETAILS)
5C OR 7C	CONCRETE SIDEWALK 5-INCH OR 7-INCH (TERRACE TO BE SEED IF NOT NOTED)
	CONCRETE DRIVEWAY 7-INCH, REMOVE EXISTING DRIVEWAY
MED	CONCRETE MEDIAN NOSE (SEE DETAILS)
	REMOVE TREE (CLEAR & GRUB)
	PULVERIZE & RELAY WITH 4" ASPHALT PAVEMENT OVERLAY
CT	CURB TRANSTION (SEE NOTE 3)

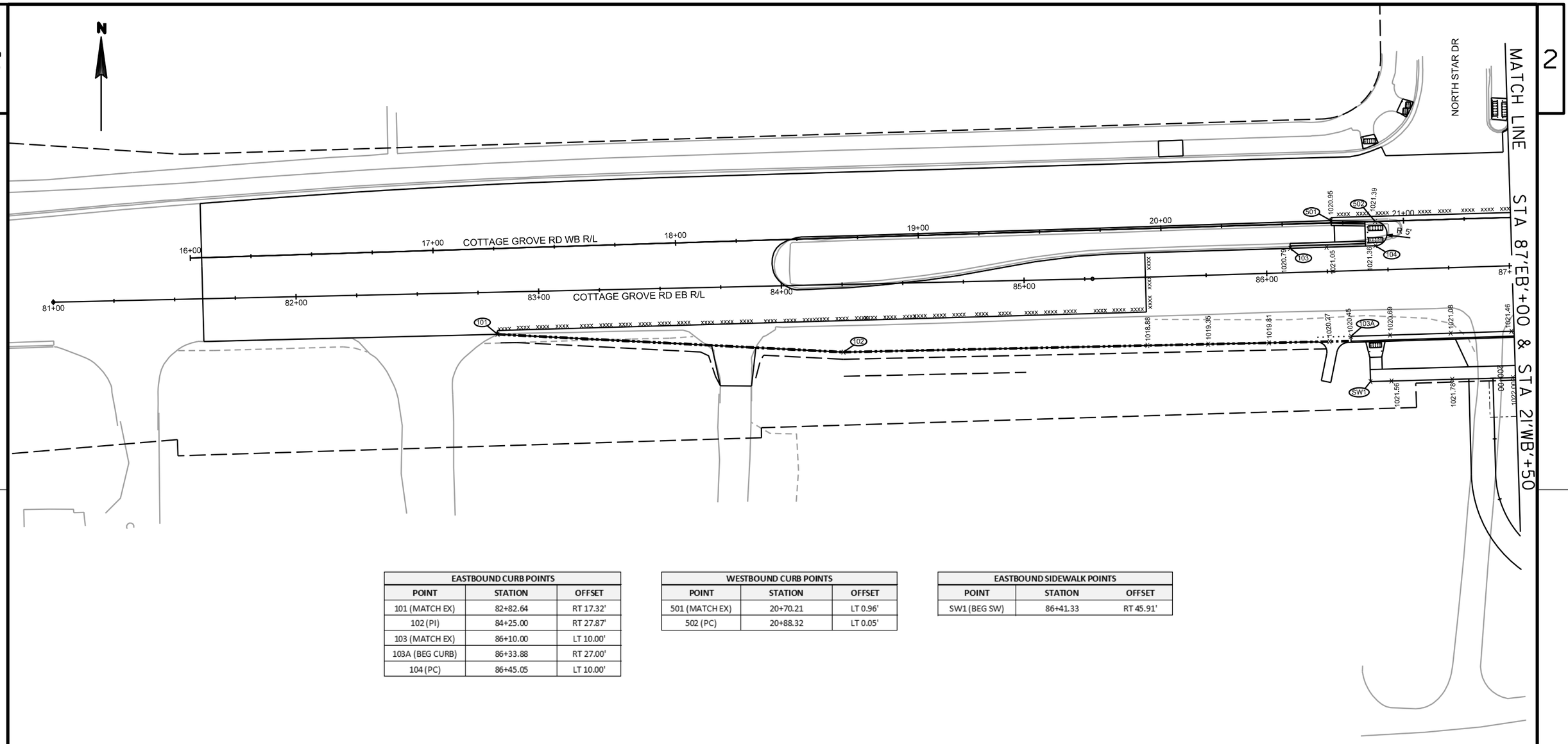
NOTES:

1. REMOVE ALL EXISTING CURB AND GUTTER WITHIN THE LIMITS OF THE PROPOSED CURB AND GUTTER.

2. REMOVE ALL EXISTING SIDEWALK WITHIN THE LIMITS OF THE PROPOSED SIDEWALK.

3. CURB TRANSTIONS OVER 6' BETWEEN FULL CURB HEIGHT AND ADJACENT PAVEMENT EDGE ELEVATION. CURB TRANSITIONS ARE INCLUDED WITH THE CURB AND GUTTER ITEM.

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PLAN DETAILS - COTTAGE GROVE RD.	SHEET 36 E



EASTBOUND CURB POINTS		
POINT	STATION	OFFSET
101 (MATCH EX)	82+82.64	RT 17.32'
102 (PI)	84+25.00	RT 27.87'
103 (MATCH EX)	86+10.00	LT 10.00'
103A (BEG CURB)	86+33.88	RT 27.00'
104 (PC)	86+45.05	LT 10.00'

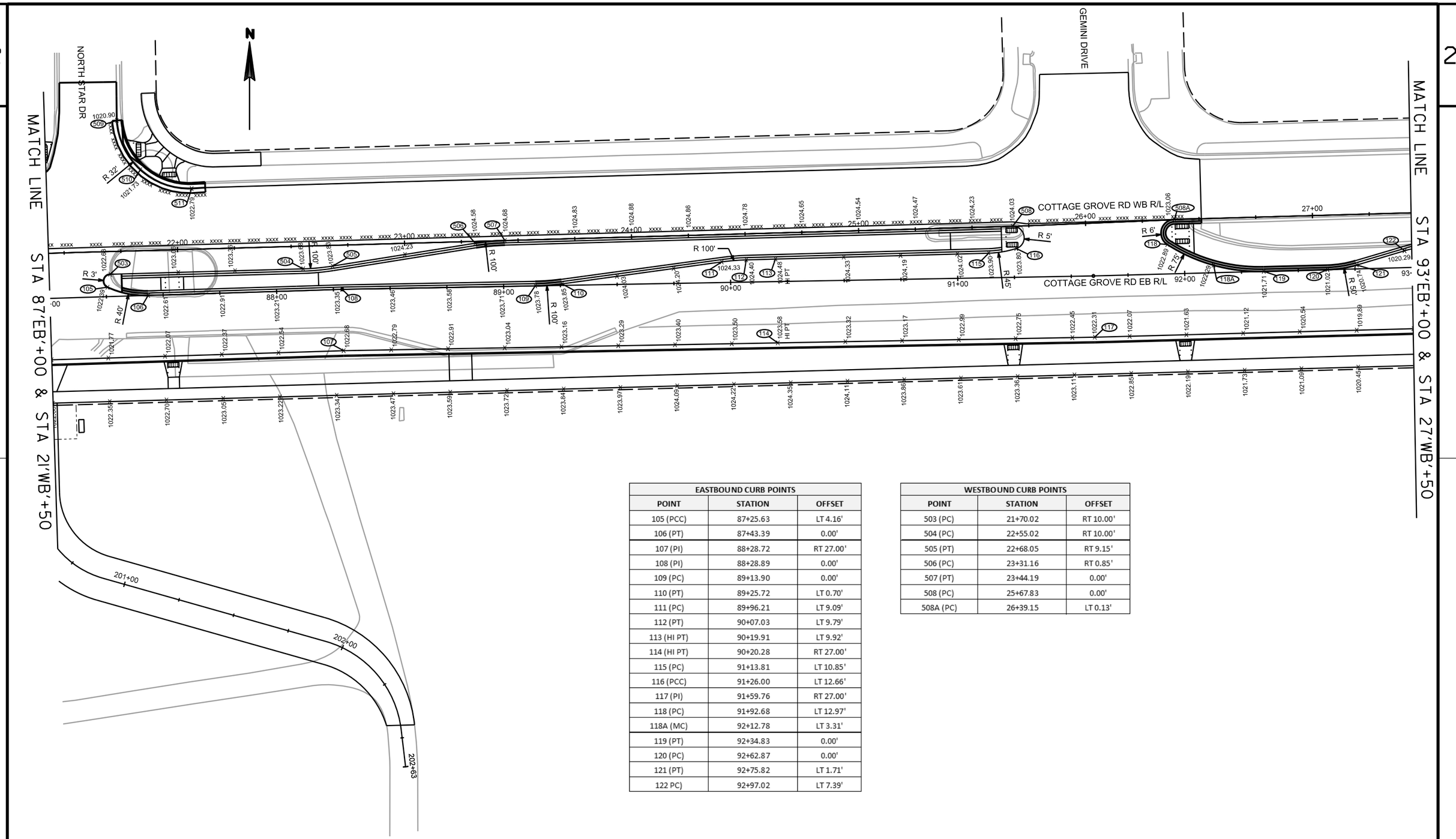
WESTBOUND CURB POINTS		
POINT	STATION	OFFSET
501 (MATCH EX)	20+70.21	LT 0.96'
502 (PC)	20+88.32	LT 0.05'

EASTBOUND SIDEWALK POINTS		
POINT	STATION	OFFSET
SW1 (BEG SW)	86+41.33	RT 45.91'

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	GRADES DETAILS - COTTAGE GROVE RD.	SHEET	E

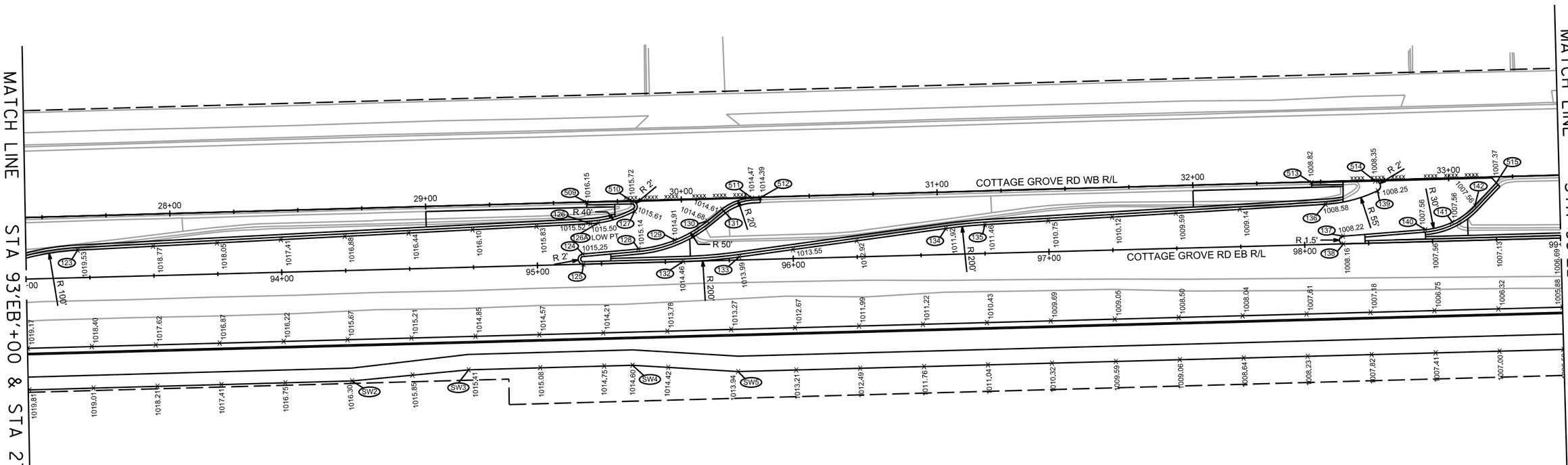
FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\Grades\53W0472EN-Grades1.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 39.9999 sf / in.

WISDOT/CADDS SHEET 42



EASTBOUND CURB POINTS		
POINT	STATION	OFFSET
105 (PCC)	87+25.63	LT 4.16'
106 (PT)	87+43.39	0.00'
107 (PI)	88+28.72	RT 27.00'
108 (PI)	88+28.89	0.00'
109 (PC)	89+13.90	0.00'
110 (PT)	89+25.72	LT 0.70'
111 (PC)	89+96.21	LT 9.09'
112 (PT)	90+07.03	LT 9.79'
113 (HI PT)	90+19.91	LT 9.92'
114 (HI PT)	90+20.28	RT 27.00'
115 (PC)	91+13.81	LT 10.85'
116 (PCC)	91+26.00	LT 12.66'
117 (PI)	91+59.76	RT 27.00'
118 (PC)	91+92.68	LT 12.97'
118A (MC)	92+12.78	LT 3.31'
119 (PT)	92+34.83	0.00'
120 (PC)	92+62.87	0.00'
121 (PT)	92+75.82	LT 1.71'
122 PC)	92+97.02	LT 7.39'

WESTBOUND CURB POINTS		
POINT	STATION	OFFSET
503 (PC)	21+70.02	RT 10.00'
504 (PC)	22+55.02	RT 10.00'
505 (PT)	22+68.05	RT 9.15'
506 (PC)	23+31.16	RT 0.85'
507 (PT)	23+44.19	0.00'
508 (PC)	25+67.83	0.00'
508A (PC)	26+39.15	LT 0.13'

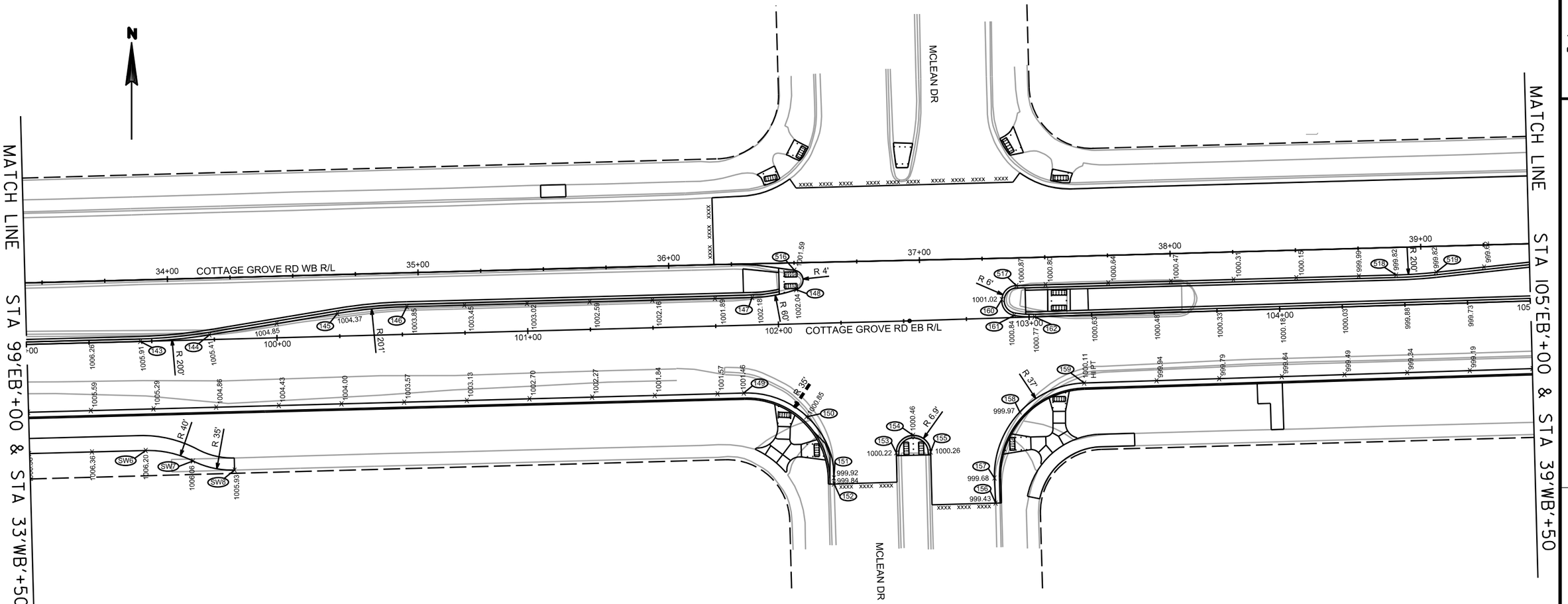


EASTBOUND CURB POINTS		
POINT	STATION	OFFSET
123 (PT)	93+20.45	LT 10.78'
124 (PC)	95+17.83	LT 4.00'
125 (PC)	95+17.96	0.00
126 (PC)	95+21.16	LT 15.76'
126A (LO PT)	95+24.15	LT 15.93'
127 (PCC)	95+38.54	LT 20.22'
128 (PC)	95+39.66	LT 5.38'
129 (MC)	95+53.96	LT 8.44'
130 (PT)	95+66.78	LT 15.51'
131 (PC)	95+72.68	LT 20.00'
132 (PC)	95+56.95	0.00
133 (PT)	95+78.90	LT 1.21'
134 (PC)	96+59.90	LT 10.15'
135 (PT)	96+75.24	LT 11.25'
136 (PC)	98+08.55	LT 15.66'
137 (PC)	98+15.04	LT 3.00'
138 (PC)	98+15.12	0.00
139 (PCC)	98+29.03	LT 20.36'
140 (PC)	98+47.22	LT 4.73'
141 (MC)	98+57.87	LT 7.31'
142 (PT)	98+66.89	LT 13.54'

WESTBOUND CURB POINTS		
POINT	STATION	OFFSET
509 (MATCH EX)	29+62.97	RT 0.14'
510 (PC)	29+80.74	RT 0.28'
511 (PT)	30+27.62	RT 0.24'
512 (MATCH EX)	30+30.84	RT 0.20'
513 (MATCH EX)	32+46.39	RT 0.31'
514 (PC)	32+71.33	RT 0.39'
515 (MATCH EX)	33+18.58	RT 2.40'

EASTBOUND SIDEWALK POINTS		
POINT	STATION	OFFSET
SW2 (PI)	94+26.30	RT 43.14'
SW3 (PI)	94+72.00	RT 40.00'
SW4(PI)	95+36.08	RT 39.94'
SW5 (PI)	95+77.25	RT 43.50'

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	GRADES DETAILS - COTTAGE GROVE RD.	SHEET 39	E

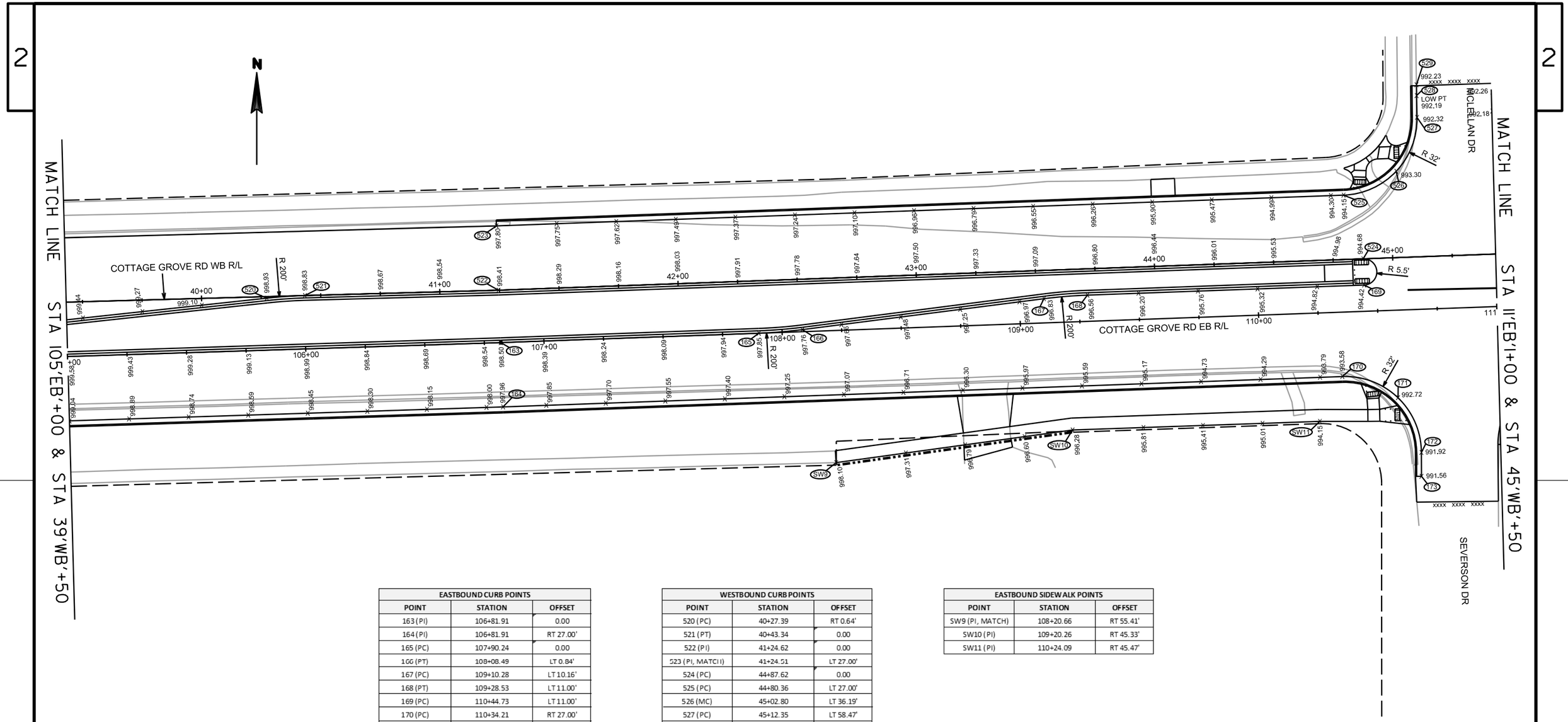


EASTBOUND CURB POINTS		
POINT	STATION	OFFSET
143 (PC)	99+45.42	0.00
144 (PT)	99+73.07	LT 1.92'
145 (PC)	100+24.26	LT 9.07'
146 (PT)	100+52.06	LT 11.00'
147 (PC)	101+89.83	LT 11.00'
148 (PCC)	102+07.48	LT 13.66'
149 (PC)	101+85.49	RT 27.00'
150 (MC)	102+10.16	RT 37.17'
151 (PT)	102+20.49	RT 61.78'
152 (MATCH EX)	102+20.50	RT 64.20'
153 (PC)	102+45.64	RT 52.44'
154 (MC)	102+52.34	RT 45.60'
155 (PC)	102+59.07	RT 52.50'
156 (MATCH EX)	102+84.30	RT 73.69'
157 (PC)	102+84.16	RT 63.68'
158 (MC)	102+95.10	RT 37.73'
159 (PT)	103+21.16	RT 27.00'
160 (MC)	102+89.36	LT 7.32'
161 (PCC)	102+94.11	LT 0.82'
162 (PT)	103+02.19	0.00

WESTBOUND CURB POINTS		
POINT	STATION	OFFSET
516 (PC)	36+50.05	RT 2.94'
517 (PC)	37+38.37	RT 11.00'
518 (PC)	38+89.88	RT 11.00'
519 (PT)	39+05.83	RT 10.36'

EASTBOUND SIDEWALK POINTS		
POINT	STATION	OFFSET
SW6 (PC)	99+46.41	RT 43.50'
SW7 (PRC)	99+65.18	RT 48.18'
SW8 (PT, MATCH)	99+81.66	RT 52.27'

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	GRADES DETAILS - COTTAGE GROVE RD.	SHEET 40	E

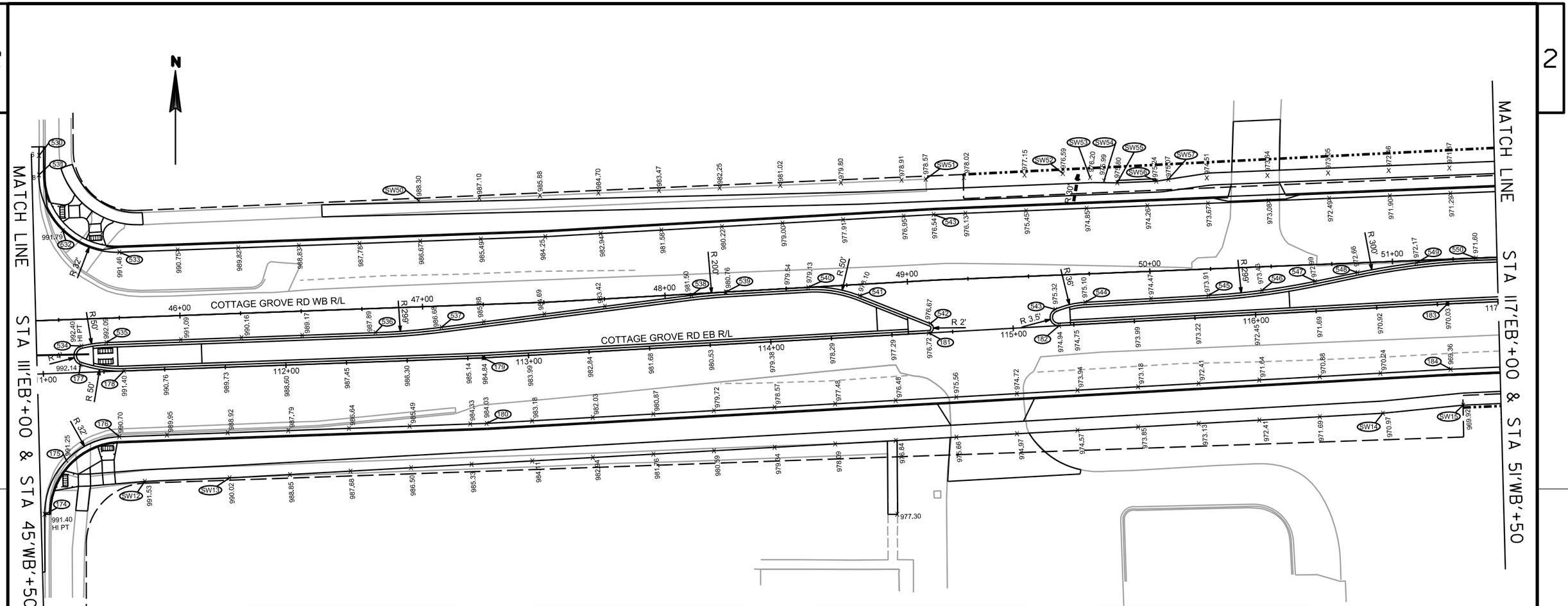


EASTBOUND CURB POINTS		
POINT	STATION	OFFSET
163 (PI)	106+81.91	0.00
164 (PI)	106+81.91	RT 27.00'
165 (PC)	107+90.24	0.00
166 (PT)	108+08.49	LT 0.84'
167 (PC)	109+10.28	LT 10.16'
168 (PT)	109+28.53	LT 11.00'
169 (PC)	110+44.73	LT 11.00'
170 (PC)	110+34.21	RT 27.00'
171 (MC)	110+57.21	RT 36.75'
172 (PT)	110+66.19	RT 60.06'
173 (END CURB)	110+65.86	RT 70.05'
174 (PC, HI PT, MATCH EX)	110+98.40	RT 57.84'

WESTBOUND CURB POINTS		
POINT	STATION	OFFSET
520 (PC)	40+27.39	RT 0.64'
521 (PT)	40+43.34	0.00
522 (PI)	41+24.62	0.00
523 (PI, MATCH)	41+24.51	LT 27.00'
524 (PC)	44+87.62	0.00
525 (PC)	44+80.36	LT 27.00'
526 (MC)	45+02.80	LT 36.19'
527 (PC)	45+12.35	LT 58.47'
528 (LO PT)	45+12.50	LT 67.61'
529 (MATCH EX)	45+12.58	LT 71.76'

EASTBOUND SIDEWALK POINTS		
POINT	STATION	OFFSET
SW9 (PI, MATCH)	108+20.66	RT 55.41'
SW10 (PI)	109+20.26	RT 45.33'
SW11 (PI)	110+24.09	RT 45.47'

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	GRADES DETAILS - COTTAGE GROVE RD.	SHEET 41	E



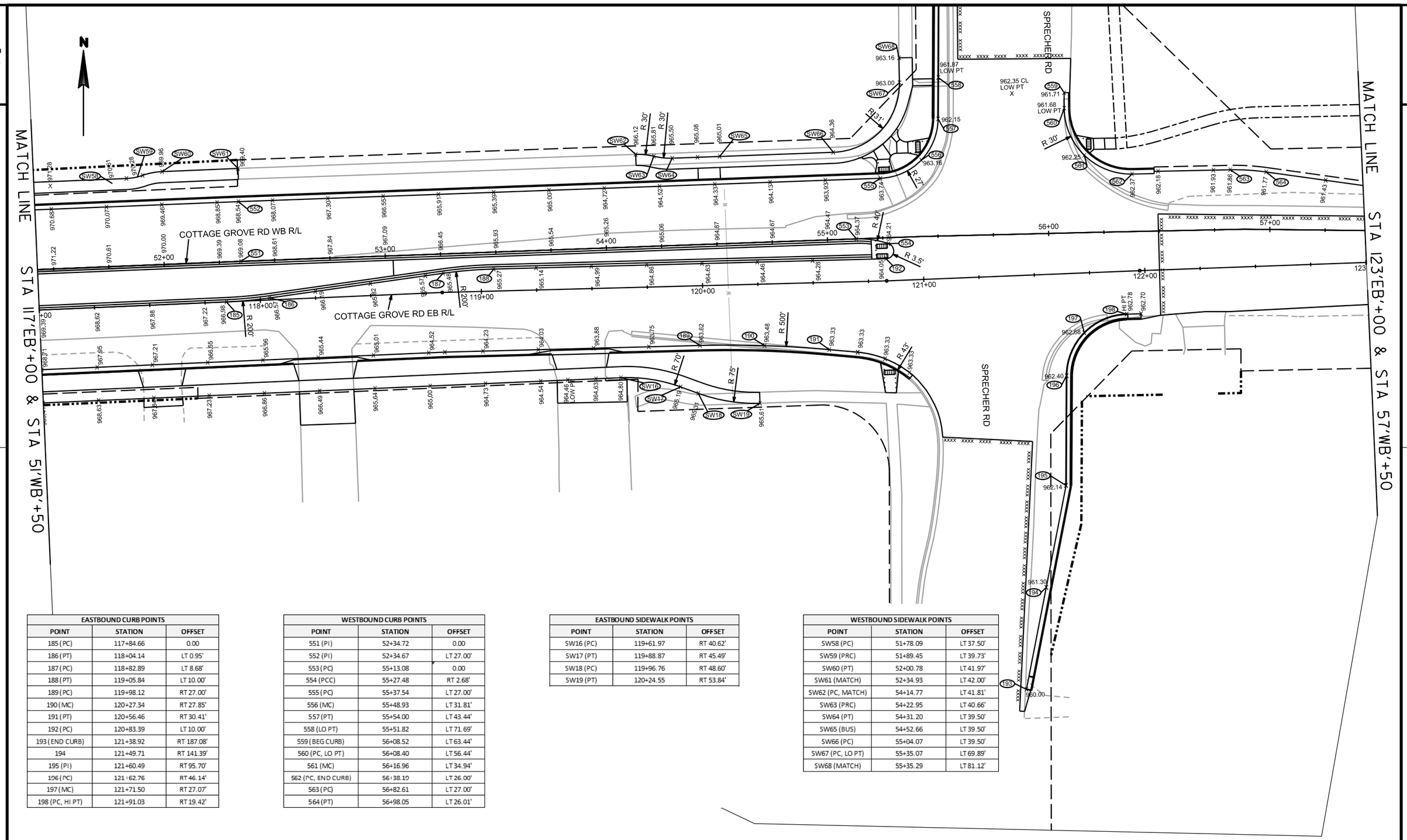
EASTBOUND CURB POINTS		
POINT	STATION	OFFSET
175 (MC)	111+08.16	RT 35.97'
176 (PC)	111+30.38	RT 27.00'
177 (PCC)	111+15.46	LT 3.28'
178 (PT)	111+33.26	0.00
179 (PI)	112+81.49	0.00
180 (PI)	112+81.49	RT 27.00'
181 (PC)	114+65.17	0.00
182 (PC)	115+18.94	0.00
183 (PI)	116+79.17	0.00
184 (PI)	116+79.00	RT 27.00'

WESTBOUND CURB POINTS		
POINT	STATION	OFFSET
530 (MATCH EX)	45+44.37	LT 68.00'
531 (PC)	45+44.01	LT 59.97'
532 (MC)	45+53.03	LT 36.72'
533 (PT)	45+75.99	LT 27.00'
534 (PCC)	45+58.94	RT 11.07'
535 (PT)	45+69.25	RT 10.00'
536 (PC)	46+80.20	RT 10.00'
537 (PT)	47+07.50	RT 8.75'
538 (PC)	48+10.93	RT 0.50'
539 (PT)	48+25.05	0.00
540 (PC)	48+59.05	0.00
541 (PT)	48+80.07	RT 4.63'
542 (PC)	49+08.45	RT 17.78'
543 (PCC)	49+60.41	RT 14.08'
544 (PT)	49+72.81	RT 11.67'
545 (PC)	50+23.67	RT 10.90'
546 (MC)	50+45.83	RT 9.73'
547 (PT)	50+67.84	RT 6.93'
548 (PC)	50+85.48	RT 4.01'
549 (MC)	51+09.86	RT 1.01'
550 (PT)	51+34.40	0.00

EASTBOUND SIDEWALK POINTS		
POINT	STATION	OFFSET
SW12 (PI)	111+40.15	RT 45.80'
SW13 (PI)	111+75.10	RT 45.62'
SW14 (PI)	116+50.08	RT 43.50'
SW15 (PI)	116+83.78	RT 42.00'

WESTBOUND SIDEWALK POINTS		
POINT	STATION	OFFSET
SW50 (MATCH)	47+00.06	LT 43.74'
SW51 (PI)	49+09.95	LT 41.74'
SW52 (PC)	49+65.85	LT 41.75'
SW53 (PRC)	49+76.97	LT 39.62'
SW54 (PI)	49+82.65	LT 37.99'
SW55 (PI)	49+88.06	LT 37.00'
SW56 (PI)	50+04.12	LT 37.00'
SW57 (PI)	50+09.12	LT 37.50'

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	GRADES DETAILS - COTTAGE GROVE RD.	SHEET 42	E



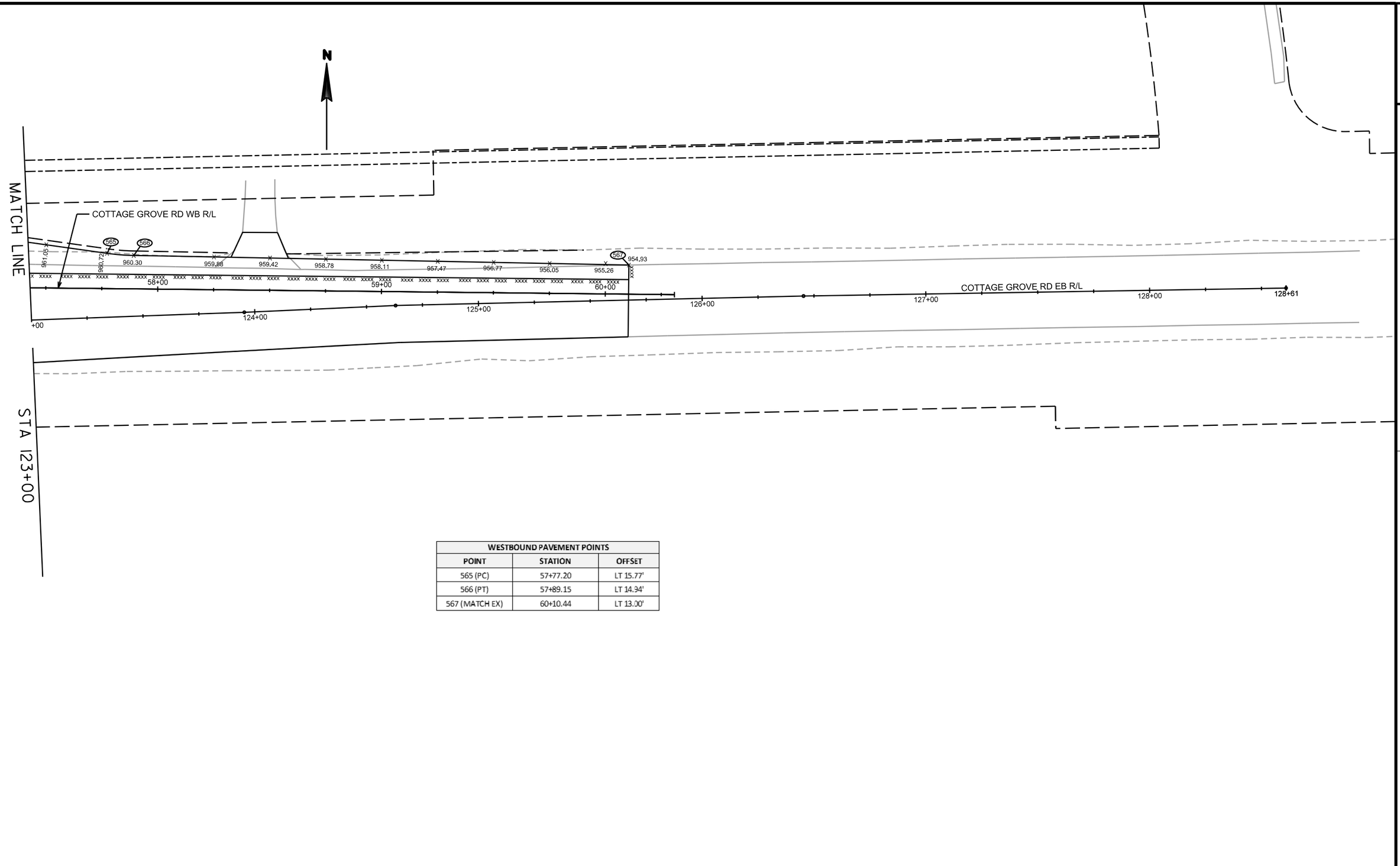
EASTBOUND CURB POINTS		
POINT	STATION	OFFSET
185 (PC)	117+84.66	0.00
186 (PT)	118+04.14	LT 0.95'
187 (PC)	118+82.89	LT 8.68'
188 (PT)	119+05.84	LT 10.00'
189 (PC)	119+98.12	RT 27.00'
190 (MC)	120+27.34	RT 27.85'
191 (PT)	120+56.46	RT 30.41'
192 (PC)	120+83.39	LT 10.00'
193 (END CURB)	121+38.92	RT 187.08'
194	121+49.71	RT 141.39'
195 (PI)	121+60.49	RT 95.70'
196 (PC)	121+62.76	RT 46.14'
197 (MC)	121+71.50	RT 27.07'
198 (PC, HI PT)	121+91.03	RT 19.42'

WESTBOUND CURB POINTS		
POINT	STATION	OFFSET
551 (PI)	52+34.72	0.00
552 (PI)	52+34.67	LT 27.00'
553 (PC)	55+13.08	0.00
554 (PCC)	55+27.48	RT 2.68'
555 (PC)	55+37.54	LT 27.00'
556 (MC)	55+48.93	LT 31.81'
557 (PT)	55+54.00	LT 43.44'
558 (LO PT)	55+51.82	LT 71.69'
559 (BEG CURB)	56+08.52	LT 63.44'
560 (PC, LO PT)	56+08.40	LT 56.44'
561 (MC)	56+16.96	LT 34.94'
562 (PC, END CURB)	56+38.10	LT 26.00'
563 (PC)	56+82.61	LT 27.00'
564 (PT)	56+98.05	LT 26.01'

EASTBOUND SIDEWALK POINTS		
POINT	STATION	OFFSET
SW16 (PC)	119+61.97	RT 40.62'
SW17 (PT)	119+88.87	RT 45.49'
SW18 (PC)	119+96.76	RT 48.60'
SW19 (PT)	120+24.55	RT 53.84'

WESTBOUND SIDEWALK POINTS		
POINT	STATION	OFFSET
SW58 (PC)	51+78.09	LT 37.50'
SW59 (PRC)	51+89.45	LT 39.73'
SW60 (PT)	52+00.78	LT 41.97'
SW61 (MATCH)	52+34.93	LT 42.00'
SW62 (PC, MATCH)	54+14.77	LT 41.81'
SW63 (PRC)	54+22.95	LT 40.66'
SW64 (PT)	54+31.20	LT 39.50'
SW65 (BUS)	54+52.66	LT 39.50'
SW66 (PC)	55+04.07	LT 39.50'
SW67 (PC, LO PT)	55+35.07	LT 69.89'
SW68 (MATCH)	55+35.29	LT 81.12'

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	GRADES DETAILS - COTTAGE GROVE RD.	SHEET 43	E



WESTBOUND PAVEMENT POINTS		
POINT	STATION	OFFSET
565 (PC)	57+77.20	LT 15.77'
566 (PT)	57+89.15	LT 14.34'
567 (MATCH EX)	60+10.44	LT 13.00'

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	GRADES DETAILS - COTTAGE GROVE RD.	SHEET 44	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\Grades\53W0472EN-Grades8.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 39.9999 sf / in.

2

2

N

NORTH STAR DR

1021.80

R 26'

STA 21+97.41
LT 51.87

1022.09

STA 21+87.03
LT 47.60

R 4'

STA 22+01.66
LT 47.58

1021.90

6.9%

1022.34

STA 22+04.96
LT 45.34

1022.53

1023.15

1023.75

5%

1021.85

2%

1022.15

STA 21+94.23
LT 35.99

STA 21+93.37
LT 40.44

R 4'

1022.29

5.3%

1022.41

STA 22+00.43
LT 35.72

0.5%

STA 21+87.12
LT 41.38

XXXX XXXX XXXX

2

2

COTTAGE GROVE RD EB R/L

87+00

200+00

1020.89

6.7%

1020.96

1021.22

1021.30

STA 86+41.33, RT 45.91'

1021.93

1022.35

5.5%

1022.43

1022.63

1022.71

STA 87+50.97, RT 46.30'

N

PROJECT NO:5992-09-26	HWY:COTTAGE GROVE RD	COUNTY:DANE	GRADES DETAILS - COTTAGE GROVE RD CURB RAMPS	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\Grades\53W0472EN-Grades10_ramps.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

2

XXXX XXXX XXXX XXXX XXXX XXXX XXXX 26+00 XXXX XXXX XXXX XXXX XXXX

2

COTTAGE GROVE RD WB R/L

COTTAGE GROVE RD EB R/L

91+00

92+00

STA 91+21.53
RT 38.74

6.7%

1023.31

1023.26

6.4%

7.0%

STA 92+01.92
RT 38.33

1022.16

1022.08

N

PROJECT NO:5992-09-26	HWY:COTTAGE GROVE RD	COUNTY:DANE	GRADES DETAILS - COTTAGE GROVE RD CURB RAMPS	SHEET 47	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\Grades\53W0472EN-Grades11_ramps.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 42

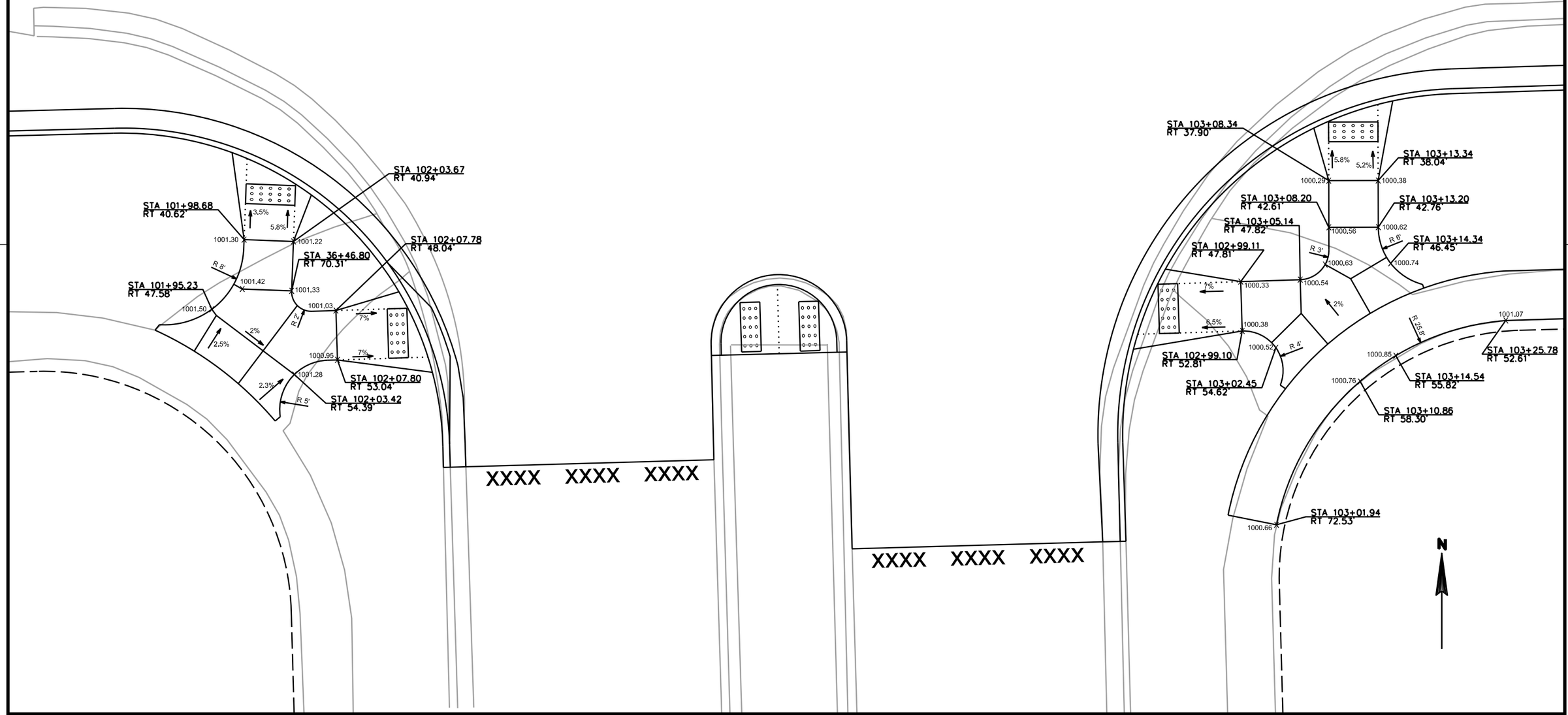
2

102+00

COTTAGE GROVE RD EB R/L

103+00

2



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	GRADES DETAILS - COTTAGE GROVE RD CURB RAMPS	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\Grades\53W0472EN-Grades12_ramps.dgn
PLOT DATE : 8/7/2019
PLOT BY : enjmw
PLOT NAME :
PLOT SCALE : 10.0000 sf / in.
WISDOT/CADDS SHEET 42

2

2

N

XXXX XXXX XXXX

STA 45+00.71
LT 46.66

STA 44+91.71
LT 40.28

STA 44+99.68
LT 41.65

STA 44+84.99
LT 34.49

STA 44+90.15
LT 36.95

STA 44+89.98
LT 34.18

STA 45+58.00
LT 63.87

STA 45+65.04
LT 51.39

STA 45+72.34
LT 46.02

STA 45+86.01
LT 42.99

STA 45+55.79
LT 46.83

STA 45+55.80
LT 41.83

STA 45+60.28
LT 41.85

STA 45+62.91
LT 41.00

STA 45+63.82
LT 38.93

STA 45+63.91
LT 35.49

STA 45+68.91
LT 35.63

45+00

46+00

COTTAGE GROVE RD WB R/L

PROJECT NO:5992-09-26	HWY:COTTAGE GROVE RD	COUNTY:DANE	GRADES DETAILS - COTTAGE GROVE RD CURB RAMPS	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\Grades\53W0472EN-Grades13_ramps.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 42

2

2

COTTAGE GROVE RD EB R/L

111+00

STA 110+44.24
RT 36.73

STA 110+49.23
RT 36.59

STA 110+44.28
RT 46.23

STA 111+22.85
RT 36.48

STA 111+12.84
RT 41.85

STA 111+27.85
RT 36.50

STA 111+22.84
RT 41.70

STA 111+40.15
RT 45.80

STA 111+28.08
RT 46.39

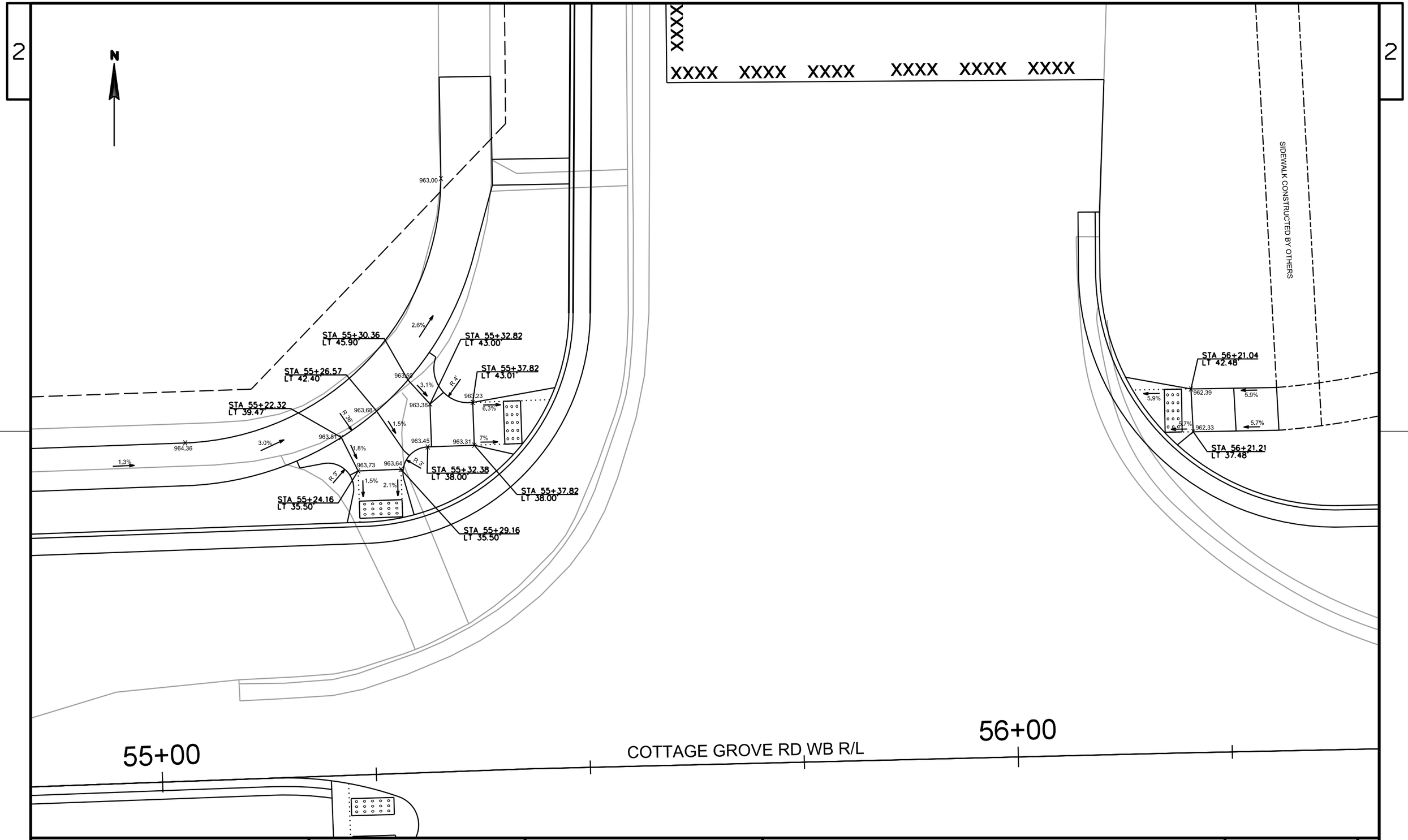
STA 111+17.80
RT 46.89

STA 111+16.18
RT 57.12

N

PROJECT NO:5992-09-26	HWY:COTTAGE GROVE RD	COUNTY:DANE	GRADES DETAILS - COTTAGE GROVE RD CURB RAMPS	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\Grades\53W0472EN-Grades14_ramps.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.



PROJECT NO:5992-09-26	HWY:COTTAGE GROVE RD	COUNTY:DANE	GRADES DETAILS - COTTAGE GROVE RD CURB RAMPS	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\Grades\53W0472EN-Grades15_ramps.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 42

2

2

N

0710-112-0099-7
CITY OF MADISON POLICE
EAST DISTRICT STATION
809 S Thompson Dr

16-IN D.I. (1980)

COTTAGE GROVE RD

INLET PROTECTION
TYPE C

INLET PROTECTION
TYPE C

INLET PROTECTION
TYPE C

INLET PROTECTION
TYPE C

INLET PROTECTION
TYPE C

69+00
70+00
71+00
72+00
73+00
74+00

MATCH LINE

STA 75+00

0710-113-0701-6
EULAINE V SCHRACK CDM UNT
OWNR ASSC % P NJOKANMA
1001 S Thompson Dr #CDM

0710-113-0703-2
SALERNO, JERRY & ANITA
106 Emma Ct

0710-113-0704-0
SCHROECKENTHALER, THOMAS
& JILL SCHROECKENTHALER
110 Emma Ct

0710-113-0705-8
SCHROECKENTHALER, THOMAS
& JILL SCHROECKENTHALER
114 Emma Ct

0710-113-0706-6
SCHROECKENTHALER, THOMAS
& JILL A SCHROECKENTHALER
118 Emma Ct

LEGEND

- TERRACE SEEDING AND EROSION MATTING
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- TUBULAR SEDIMENT CONTROL
- ROCK BAGS

NOTE: PLACE ROCK BAGS AND DITCH CHECKS
AS SHOWN IN THE PLANS AND AS DIRECTED
BY THE ENGINEER AS REQUIRED BY STAGING.

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	EROSION CONTROL PLAN	SHEET E

FILE NAME : M:\DESIGN\Projects\53W0472\Storm\Design\EC Plans\53W0472EC-PlanDetail1.dgn
PLOT DATE : 9/24/2019
PLOT BY : engey
PLOT NAME : _____
PLOT SCALE : 40.0000 sf / in.
WISDOT/CADDS SHEET 42

2

MATCH LINE

STA 75+00

N

90

90

90

90

ST

INLET PROTECTION
TYPE C

COTTAGE GROVE RD

COTTAGE GROVE RD
OVERPASS BRIDGE

76+00

77+00

78+00

79+00

80+00

81+

24" DEC.

MATCH LINE

STA 81+00

2

0710-113-0901-2
HOVDE REALTY INC
101
5781 Cottage Grove Rd

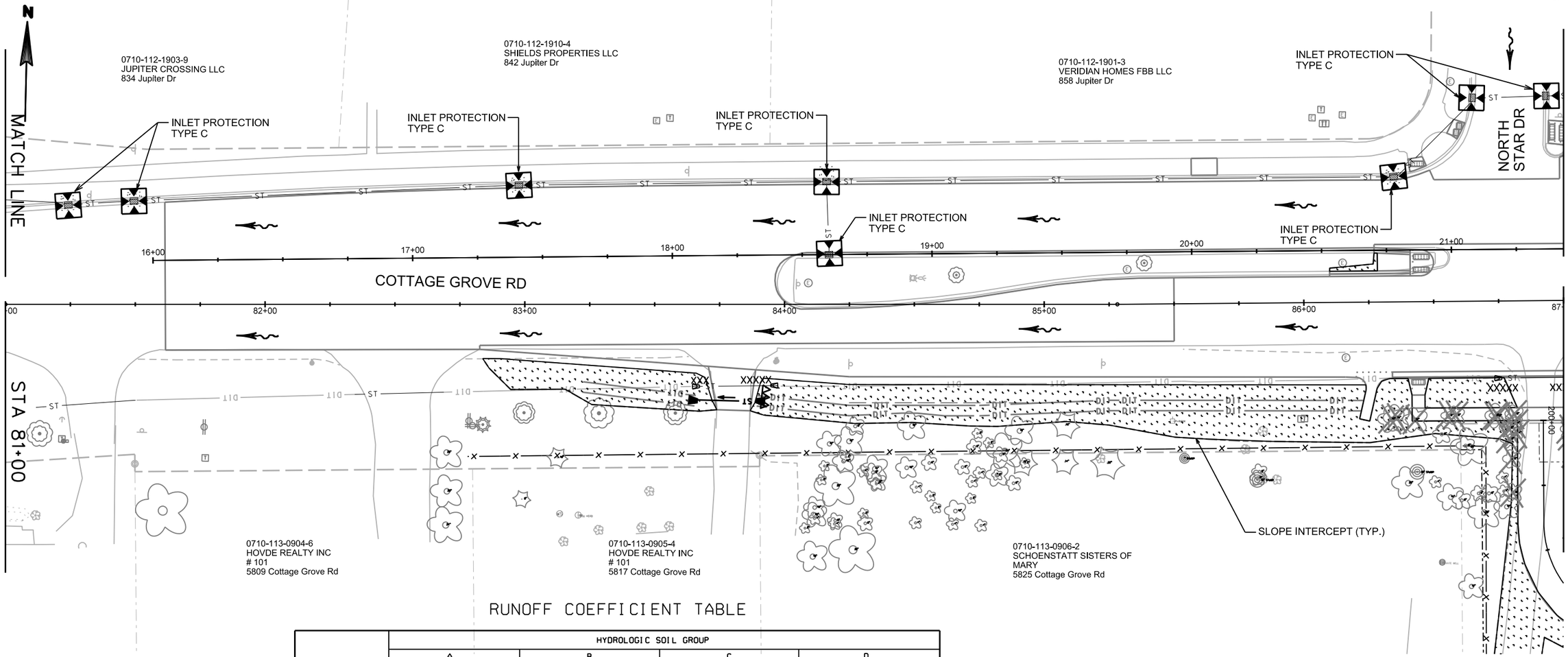
0710-113-0902-0
THOMPSON, ROB
GERALDINE L BRI
5785 Cottage Grov

LEGEND

- TERRACE SEEDING AND EROSION MATTING
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- TUBULAR SEDIMENT CONTROL
- ROCK BAGS

NOTE: PLACE ROCK BAGS AND DITCH CHECKS
AS SHOWN IN THE PLANS AND AS DIRECTED
BY THE ENGINEER AS REQUIRED BY STAGING.

PROJECT NO: 5992-09-26	HWY:COTTAGE GROVE RD	COUNTY:DANE	EROSION CONTROL PLAN	SHEET 53	E



RUNOFF COEFFICIENT TABLE

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

TOTAL PROJECT AREA = 13.51 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 9.63 ACRES

LEGEND

- TERRACE SEEDING AND EROSION MATTING
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- TUBULAR SEDIMENT CONTROL
- ROCK BAGS

NOTE: PLACE ROCK BAGS AND DITCH CHECKS AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER AS REQUIRED BY STAGING.

2

N

MATCH LINE

STA 87+00

NORTH STAR DR

INLET PROTECTION TYPE C

INLET PROTECTION TYPE C

0710-112-2502-8
MREC VH MADISON INVESTORS LLC
6033 Gemini Dr

GEMINI DR

0710-111-2618-5
1200 SOUTH LLC
6034 Gemini Dr

COTTAGE GROVE RD

INLET PROTECTION TYPE C

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

INLET PROTECTION TYPE C

22+00 23+00 24+00 25+00 26+00 27+00

88+00 89+00 90+00 91+00 92+00

MATCH LINE

STA 93+00

0710-113-0908-8
SCHOENSTATT SISTERS OF MARY
5901 Cottage Grove Rd

201+00 202+00 202+63

SLOPE INTERCEPT (TYP.)

0710-113-0908-8
SCHOENSTATT SISTERS OF MARY
5901 Cottage Grove Rd

LEGEND

- TERRACE SEEDING AND EROSION MATTING
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- TUBULAR SEDIMENT CONTROL
- ROCK BAGS

NOTE: PLACE ROCK BAGS AND DITCH CHECKS AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER AS REQUIRED BY STAGING.

PROJECT NO: 5992-09-26	HWY:COTTAGE GROVE RD	COUNTY:DANE	EROSION CONTROL PLAN	SHEET 55	E

2

N

0710-111-2616-9
1200 SOUTH LLC
6010 Cottage Grove Rd

MATCH LINE

STA 93+00

MATCH LINE

STA 99+00

INLET PROTECTION TYPE C

INLET PROTECTION TYPE C

COTTAGE GROVE RD

INLET PROTECTION TYPE C

28+00 29+00 30+00 31+00 32+00 33+00

94+00 95+00 96+00 97+00 98+00

INLET PROTECTION TYPE D

INLET PROTECTION TYPE C

ST 12" ST 12" ST 12" ST 12" ST

6" DEC. 8" DEC. 16" DEC. 20" DEC. 36" DEC. 36" DEC. 14" DEC. 12" DEC. 20" DEC. 14" DEC.

SHRUB

¾" SOLID IRON ROD FOUND

SLOPE INTERCEPT (TYP.)

0710-113-0908-8
SCHOENSTATT SISTERS OF MARY
5901 Cottage Grove Rd

0710-114-0106-6
SEMOVSKI, NEDZMI & NERMIN SEMOVSKI
6102 Fredericksburg Ln

0710-114-0105-8
HILL, KATHRYN D & GREGORY J CIESLEWICZ
6106 Fredericksburg Ln

0710-114-0102-4
DICKRELL, ALAN & JOAN
6110 Fredericksburg Ln

0710-114-0107-4
BLANKMAN, SCOTT A & DENISE R DE MARB
6010 Fredericksburg Ln

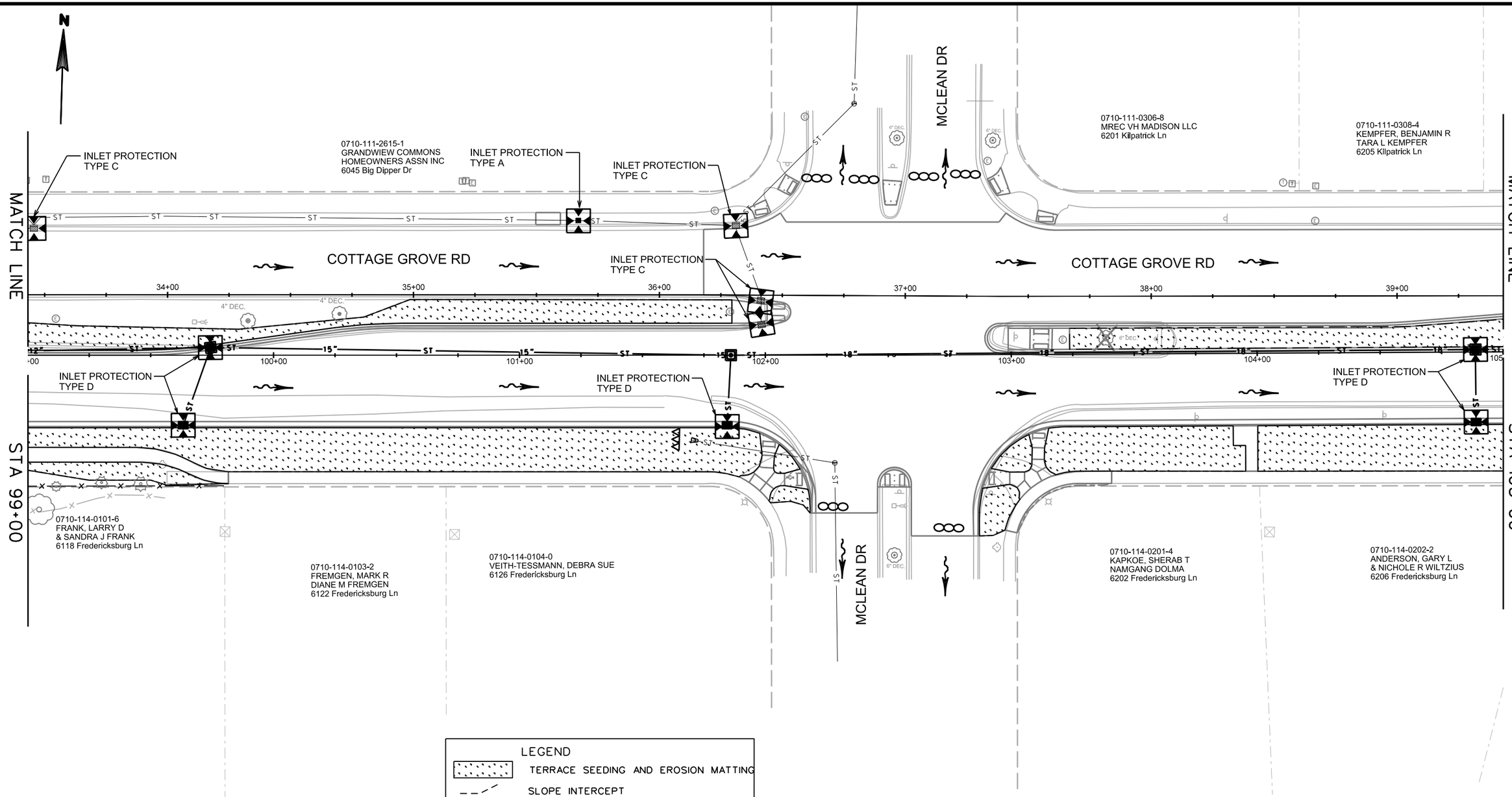
LEGEND

- TERRACE SEEDING AND EROSION MATTING
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- TUBULAR SEDIMENT CONTROL
- ROCK BAGS

NOTE: PLACE ROCK BAGS AND DITCH CHECKS AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER AS REQUIRED BY STAGING.

PROJECT NO: 5992-09-26	HWY:COTTAGE GROVE RD	COUNTY:DANE	EROSION CONTROL PLAN	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Storm\Design\EC Plans\53W0472EC-PlanDetail5.dgn PLOT DATE : 9/18/2019 PLOT BY : enfbg PLOT NAME : PLOT SCALE : 39.9999 sf / in.



LEGEND

- TERRACE SEEDING AND EROSION MATTING
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- TUBULAR SEDIMENT CONTROL
- ROCK BAGS

NOTE: PLACE ROCK BAGS AND DITCH CHECKS AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER AS REQUIRED BY STAGING.

PROJECT NO: 5992-09-26	HWY:COTTAGE GROVE RD	COUNTY:DANE	EROSION CONTROL PLAN	SHEET 57	E

2

N

0710-111-0309-2
VEGA, NICOLAS & TANYA A
& IMELDA VEGA
6207 Kilpatrick Ln

¾" SOLID IRON ROD FOUND

0710-111-0310-9
FIX, DANIEL L
LEAH J FIX
6209 Kilpatrick Ln

0710-111-0311-7
FAIT, PATRICK
CHELSEA FAIT
6211 Kilpatrick Ln

0710-111-0312-5
MACKLEM, TODD
SARAH MACKLEM
6213 Kilpatrick Ln

0710-111-0313-3
DICKRELL, ALAN L
JOAN H DICKRELL
6215 Kilpatrick Ln

0710-111-0301-8
BIRCHWOOD RIDGE CDMS ASSN
CONDO MGMT ASSOC LLC
6227 Kilpatrick Ln

MCCLELLAN DR

MATCH LINE

MATCH LINE

STA 105+00

STA 111+00

INLET PROTECTION TYPE D

INLET PROTECTION TYPE C

INLET PROTECTION TYPE D

1 ¼" SOLID IRON ROD FOUND

INLET PROTECTION TYPE D

INLET PROTECTION TYPE A

40+00 41+00 42+00 43+00 44+00 45+00

+00 106+00 107+00 108+00 109+00 110+00 111

21" ST 24"

COTTAGE GROVE RD

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

INLET PROTECTION TYPE C

INLET PROTECTION TYPE D

INLET PROTECTION TYPE C

INLET PROTECTION TYPE C

INLET PROTECTION TYPE A

SLOPE INTERCEPT (TYP.)

1 ¼" SOLID IRON ROD FOUND

0710-114-0203-0
REPKA, RAQUEL A
BRIAN J BECKER
1 Fredericksburg Ct

0710-114-0204-8
FINGER, THOMAS J
& PAMELA A FINGER
5 Fredericksburg Ct

0710-114-0205-6
SEVERSIN, MICHAEL & LISA
9 Fredericksburg Ct

0710-114-1702-1
CHEN, YONG
& AMANDA LYNN CHEN
6221 Cottage Grove Rd

0710-114-1701-3
FIELDSTONE ESTATES LLC
1002 Severson Dr

SEVERSON DR

LEGEND

- TERRACE SEEDING AND EROSION MATTING
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- TUBULAR SEDIMENT CONTROL
- ROCK BAGS

NOTE: PLACE ROCK BAGS AND DITCH CHECKS AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER AS REQUIRED BY STAGING.

PROJECT NO: 5992-09-26	HWY:COTTAGE GROVE RD	COUNTY:DANE	EROSION CONTROL PLAN	SHEET 58	E

2

N

MATCH LINE

STA 111+00

STA 117+00

INLET PROTECTION TYPE D

INLET PROTECTION TYPE C

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

INLET PROTECTION TYPE D

COTTAGE GROVE RD

COTTAGE GROVE RD

SLOPE INTERCEPT (TYP.)

46+00 47+00 48+00 49+00 50+00 51+00

112+00 113+00 114+00 115+00 116+00

ST

21" 27" 30"

IRON PIN, PIPE, MARKER FOUND

SOLID IRON ROD FOUND

36" DEC.

BUILDING

0710-111-0201-0
BIRCHWOOD RIDGE CDMS ASSN
CONDO MGMT ASSOC LLC
6319 Kilpatrick Ln

0710-114-1801-1
MAYWICK ESTATES CDM ASSN
ATTN TED FRANK
1001 Severson Dr #CDM

0710-114-1804-5
FIELDSTONE ESTATES LLC
STE 101
6326 Maywick Dr

0710-114-1810-2
FIRST WISCONSIN NATL BANK
3401 COTTAGE GROVE ROAD

LEGEND

- TERRACE SEEDING AND EROSION MATTING
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- TUBULAR SEDIMENT CONTROL
- ROCK BAGS

NOTE: PLACE ROCK BAGS AND DITCH CHECKS AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER AS REQUIRED BY STAGING.

PROJECT NO: 5992-09-26	HWY:COTTAGE GROVE RD	COUNTY:DANE	EROSION CONTROL PLAN	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Storm\Design\EC Plans\53W0472EC-PlanDetail8.dgn PLOT DATE : 9/18/2019 PLOT BY : enfbg PLOT NAME : PLOT SCALE : 39.9999 sf / in.

2

N

0710-111-0206-0
LYNCH, DANIEL J
6404 COTTAGE GROVE ROAD

0710-111-0205-2
STAGE TWO DEVELOPMENT LLC
6420 Cottage Grove Rd

SPRECHER RD

MATCH LINE

STA 117+00

STA 123+00

COTTAGE GROVE RD

INLET PROTECTION TYPE D

INLET PROTECTION TYPE A

INLET PROTECTION TYPE C

52+00 53+00 54+00 55+00 56+00 57+00

118+00 119+00 120+00 121+00 122+00 123

30" 36"

IRON PIN, PIPE MARKER FOUND

SLOPE INTERCEPT (TYP.)

0710-114-1808-7
PITTZ, BRADY MICHAEL
JACQUELINE NICOLE PITTZ
1002 S Sprecher Rd

0710-114-1811-0
HOSKING, BRIAN C
6409 COTTAGE GROVE ROAD

0710-114-1812-8
GEHRKE, RENO K
LYNNE M GEHRKE
6413 COTTAGE GROVE ROAD

0710-114-1813-6
NEUHENGEN, RICHARD
6417 COTTAGE GROVE ROAD

0710-123-0304-7
CITY OF MADISON ENGINEER
FUTURE TRANSPORTATION 535
6503 Cottage Grove Rd

955 960

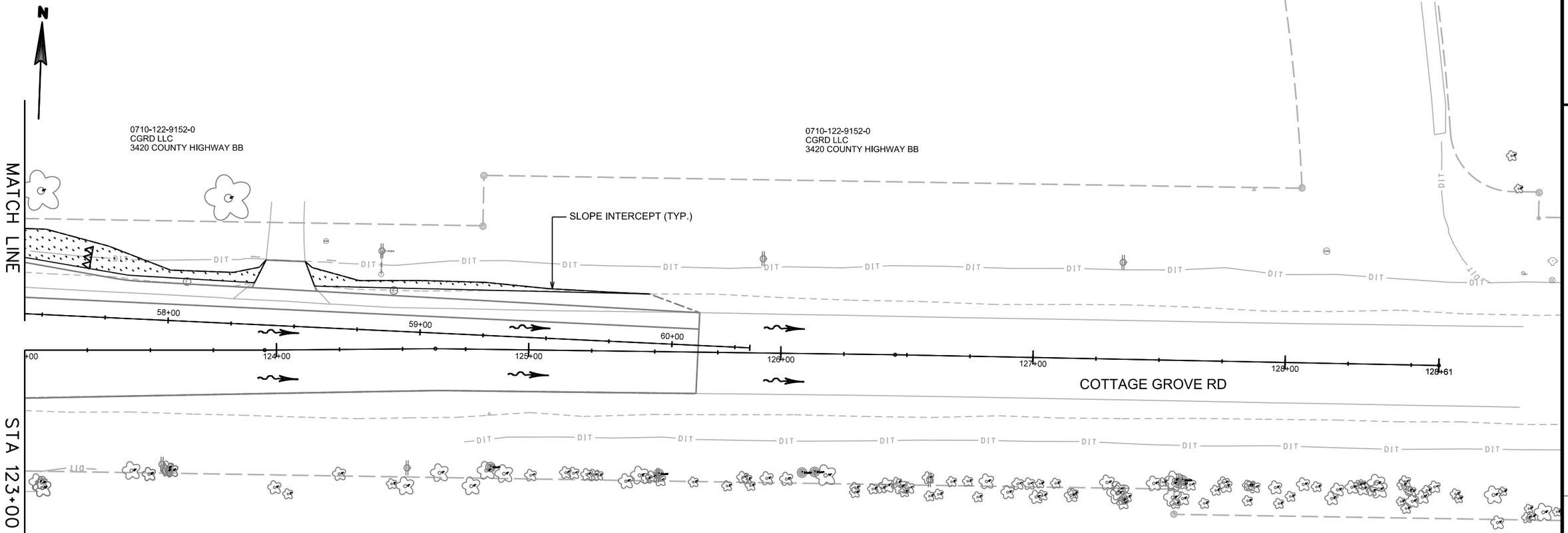
LEGEND

- TERRACE SEEDING AND EROSION MATTING
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- TUBULAR SEDIMENT CONTROL
- ROCK BAGS

NOTE: PLACE ROCK BAGS AND DITCH CHECKS AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER AS REQUIRED BY STAGING.

PROJECT NO: 5992-09-26	HWY:COTTAGE GROVE RD	COUNTY:DANE	EROSION CONTROL PLAN	SHEET 60	E

2



LEGEND

- TERRACE SEEDING AND EROSION MATTING
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- TUBULAR SEDIMENT CONTROL
- ROCK BAGS

NOTE: PLACE ROCK BAGS AND DITCH CHECKS AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER AS REQUIRED BY STAGING.

PROJECT NO: 5992-09-26	HWY:COTTAGE GROVE RD	COUNTY:DANE	EROSION CONTROL PLAN	SHEET 61	E

2

N

0710-112-1901-3
VERIDIAN HOMES FBB LLC
858 Jupiter Dr

0710-112-1910-4
SHIELDS PROPERTIES LLC
842 Jupiter Dr

MG&E ELEC
AT&T
WIN
CHARTER
EXISTING RIGHT-OF-WAY
EXISTING STORM SEWER TO REMAIN
MG&E
AT&T
NORTH STAR DR
STA 87+72.03, LT 8.69'
INLETS 2X3-FT WITH INLET COVERS TYPE H
40.0
UTILITY TRENCH PATCH TYPE IV SPECIAL REQ'D
CONNECT TO EXISTING
MG&E GAS
6" 60PSI
6" PE GAS MAIN
6" PLASTIC GAS MAIN
ULO-4
EXISTING STORM SEWER TO REMAIN
EXISTING STORM SEWER TO REMAIN
MG&E GAS
MG&E ELEC
COTTAGE GROVE RD
EXISTING STORM SEWER TO REMAIN
CITY OF MADISON TRAFFIC ENG
GAS MAIN TO BE ABANDONED
17+00
18+00
19+00
20+00
21+00
22+00
STA 83+92.56, RT 37.50'
APRON ENDWALL 18" RCP
46.0
PROPOSED WATER MAIN (SEE WATER PLANS)
82+00
83+00
84+00
85+00
86+00
87+00
88
EXISTING STORM CULVERT TO REMAIN
STA 83+62.90, RT 36.75'
APRON ENDWALL 18" RCP
45.0
PROPOSED WATER MAIN (SEE WATER PLANS)
STA 87+71.78, LT 1.00'
INLETS 2X3-FT WITH INLET COVERS TYPE H
40.1
MATCHLINE STA 88+00.00
AT&T
MG&E OVERHEAD ELEC
EXISTING RIGHT-OF-WAY
CHARTER
AT&T
MG&E ELEC
STA 87+70.85, RT 28.50'
INLETS 2X3-FT WITH INLET COVERS TYPE H
40.2
0710-113-0904-6
HOVDE REALTY INC
101
5809 Cottage Grove Rd
0710-113-0905-4
HOVDE REALTY INC
101
5817 Cottage Grove Rd
0710-113-0906-2
SCHOENSTATT SISTERS OF MARY
5825 Cottage Grove Rd
0710-113-0908-8
SCHOENSTATT SISTERS OF MARY
5901 Cottage Grove Rd

SEWER FLOW DIRECTION
XXXXX REMOVING STORM SEWER
REMOVING INLETS/MANHOLES

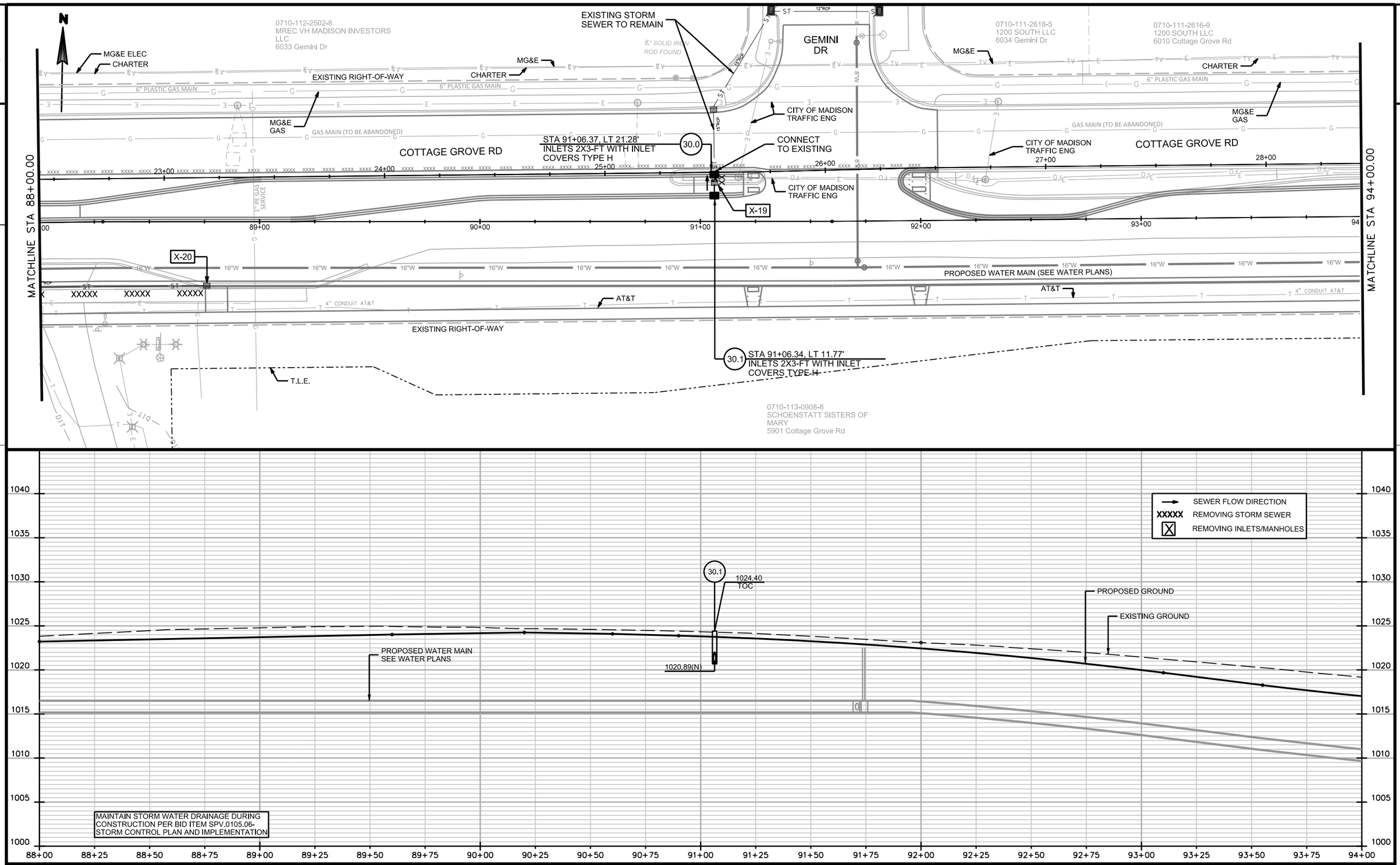
PROPOSED GROUND
EXISTING GROUND
TOP OF BEDROCK AT 1019.91
40.2
1022.70 TOC
46.0
45.0
29 LF SSPRC 18" @ 2.00%
1010.80
1010.21
1019.45(N)
PROPOSED WATER MAIN SEE WATER PLANS

1025
1020
1015
1010
1005
1000
995
990

82+00 82+25 82+50 82+75 83+00 83+25 83+50 83+75 84+00 84+25 84+50 84+75 85+00 85+25 85+50 85+75 86+00 86+25 86+50 86+75 87+00 87+25 87+50 87+75 88+00

MAINTAIN STORM WATER DRAINAGE DURING CONSTRUCTION PER BID ITEM SPV.0105.06-STORM CONTROL PLAN AND IMPLEMENTATION

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	STORM SEWER PLAN	SHEET 62	E



PROJECT NO: 5992-09-26	HWY:COTTAGE GROVE ROAD	COUNTY: DANE	STORM SEWER PLAN	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Storm\Design\Storm Sewer Plans\53W0472STM-PnP**4.dgn PLOT DATE : 9/23/2019 PLOT BY : enfbg PLOT NAME : PLOT SCALE : 39.9999 sf / in.

WISDOT/CADDS SHEET 46

2

N

MATCHLINE STA 94+00.00

MATCHLINE STA 100+00.00

0710-111-2616-9
1200 SOUTH LLC
6010 Cottage Grove Rd

EX 5.0 STA 95+25.55, LT 22.99'
ADJUSTING INLET COVERS

EXISTING STORM SEWER TO REMAIN

EXISTING RIGHT OF WAY

0710-111-2616-9
1200 SOUTH LLC
6010 Cottage Grove Rd

MG&E GAS

AT&T

STA 97+99.81, LT 16.38'
ADJUSTING INLET COVERS
EX 4.1

EXISTING STORM SEWER TO REMAIN

EX 4.0 STA 98+12.91, LT 23.44'
ADJUSTING INLET COVERS

EXISTING STORM SEWER TO REMAIN

0710-111-2615-1
GRANDVIEW COMMONS
HOMEOWNERS ASSN INC
6045 Big Dipper Dr

¾" SOLID IRON ROD FOUND

6" PLASTIC GAS MAIN

GAS MAIN (TO BE ABANDONED)

CONNECT TO EXISTING

X-18

18.0 STA 95+55.00, LT 1.00'
INLETS 2X3-FT WITH INLET COVERS TYPE H

COTTAGE GROVE RD

EXISTING STORM SEWER TO REMAIN

STA 99+74.42, LT 3.12'
MANHOLES 3X3-FT WITH MANHOLE COVERS TYPE H
16.0

29+00 30+00 31+00 32+00 33+00 34+00

STA 95+21.20, LT 16.75'
INLETS 2X3-FT WITH INLET COVERS TYPE H-S
20.0

95+00 96+00 97+00 98+00 99+00 100

EXISTING STORM SEWER TO REMAIN

4" DEC.

12" ST

PROPOSED WATER MAIN (SEE WATER PLANS)

16"W

12-IN D.I. (1993)

4" CONDUIT AT&T

MG&E

AT&T

EXISTING RIGHT OF WAY

¾" SOLID IRON ROD FOUND

SHRUB

STA 98+55.00, LT 1.00'
INLETS 2X3-FT WITH INLET COVERS TYPE H
17.0

19.0 STA 95+41.40, RT 28.50'
INLETS 2X3-FT WITH INLET COVERS TYPE H

STA 99+63.25, RT 28.50'
INLETS 2X3-FT WITH INLET COVERS TYPE H
16.1

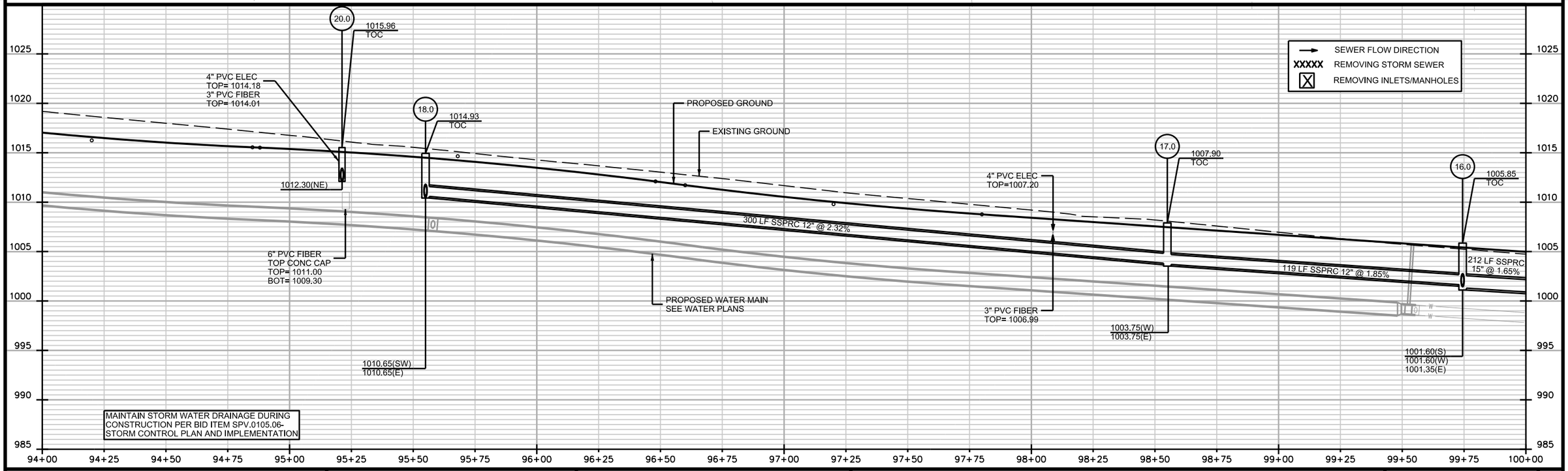
0710-113-0908-8
SCHOENSTATT SISTERS OF MARY
5901 Cottage Grove Rd

0710-114-0106-6
SEMOVSKI, NEDZMI
& NERMIN SEMOVSKI
6102 Fredericksburg Ln

0710-114-0105-8
HILL, KATHRYN D
& GREGORY J CIESLEWICZ
6106 Fredericksburg Ln

0710-114-0102-4
DICKRELL, ALAN & JOAN
6110 Fredericksburg Ln

0710-114-0101-6
FRANK, LARRY D
& SANDRA J FRANK
6118 Fredericksburg Ln



MAINTAIN STORM WATER DRAINAGE DURING CONSTRUCTION PER BID ITEM SPV.0105.06-STORM CONTROL PLAN AND IMPLEMENTATION

PROJECT NO: 5992-09-26	HWY:COTTAGE GROVE ROAD	COUNTY: DANE	STORM SEWER PLAN	SHEET 64	E

2

N

EXISTING STORM SEWER TO REMAIN

AT&T

MG&E ELEC.

6" PLASTIC GAS MAIN

MG&E GAS

0710-111-2615-1
GRANDWIEW COMMONS HOMEOWNERS ASSN INC
6045 Big Dipper Dr

McCLEAN DR

EXISTING STORM SEWER TO REMAIN

GAS MAIN (TO BE ABANDONED)

STA 101+85.97, CL
MANHOLES 3X3-FT WITH MANHOLE COVERS TYPE J SPECIAL REQ'D
15.0

EX 3.0 STA 101+98.39, LT 12.69'
ADJUSTING INLET COVERS

24-IN CASING

12-IN D.I. (2001)

0710-111-0306-8
MREC VH MADISON LLC
6201 Kilpatrick Ln

1 ½" SOLID IRON ROD FOUND

CITY OF MADISON TRAFFIC ENG.

EXISTING RIGHT OF WAY

MG&E GAS

0710-111-0308-4
KEMPFER, BENJAMIN R
TARA L KEMPFER
6205 Kilpatrick Ln

0710-111-0309-2
VEGA, NICOLAS & TANYA A
& IMELDA VEGA
6207 Kilpatrick Ln

¾" SOLID IRON ROD FOUND

0710-111-0310-9
FIX, DANIEL L
LEAH J FIX
6209 Kilpatrick Ln

STA 104+88.78, LT 1.00'
MANHOLES 3X3-FT WITH INLET COVERS TYPE H
14.0

MATCHLINE STA 100+00.00

MATCHLINE STA 106+00.00

COTTAGE GROVE RD

COTTAGE GROVE RD

12-IN D.I. (1993)

12-IN D.I. (1993)

MG&E GAS

MG&E

EXISTING RIGHT OF WAY

STA 101+84.47, RT 28.50'
INLETS 2X3-FT WITH INLET COVERS TYPE H
15.1

STA 104+88.90, RT 28.50'
INLETS 2X3-FT WITH INLET COVERS TYPE H
14.1

STA 102+28.23, RT 43.77'
EX 3.1 ADJUSTING MANHOLE COVERS

EXISTING STORM SEWER TO REMAIN

0710-114-0103-2
FREMGEN, MARK R
DIANE M FREMGEN
6122 Fredericksburg Ln

0710-114-0104-0
VEITH-TESSMANN, DEBRA SUE
6126 Fredericksburg Ln

0710-114-0201-4
KAPKOE, SHERAB T
NAMGANG DOLMA
6202 Fredericksburg Ln

0710-114-0202-2
ANDERSON, GARY L
& NICHOLE R WILTZIUS
6206 Fredericksburg Ln

0710-114-0203-0
REPKA, RAQUEL A
BRIAN J BECKER
1 Fredericksburg Ct

SEWER FLOW DIRECTION
XXXXX REMOVING STORM SEWER
REMOVING INLETS/MANHOLES

1020
1015
1010
1005
1000
995
990
985
980

15.0
1002.00
RIM

14.0
1000.09
TOC

PROPOSED GROUND
EXISTING GROUND

212 LF SSPRC 15" @ 1.65%

301 LF SSPRC 18" @ 0.93%

298 LF SSPRC 21" @ 0.60%

EXISTING WATER MAIN

998.40(S)
997.90(W)
997.80(E)

995.85(S)
995.00(W)
995.00(E)

4" PL GAS
TOP= 995.00 APPROX. @ CROSSING WITH PROPOSED STORM

24" STEEL WATER
TOP=991.29

MAINTAIN STORM WATER DRAINAGE DURING CONSTRUCTION PER BID ITEM SPV.0105.06-STORM CONTROL PLAN AND IMPLEMENTATION

100+00 100+25 100+50 100+75 101+00 101+25 101+50 101+75 102+00 102+25 102+50 102+75 103+00 103+25 103+50 103+75 104+00 104+25 104+50 104+75 105+00 105+25 105+50 105+75 106+00

PROJECT NO: 5992-09-26	HWY:COTTAGE GROVE ROAD	COUNTY: DANE	STORM SEWER PLAN	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Storm\Design\Storm Sewer Plans\53W0472STM-PnP**6.dgn PLOT DATE : 9/23/2019 PLOT BY : enfbg PLOT NAME : PLOT SCALE : 39.9999 sf / in.

WISDOT/CADDS SHEET 46

2

N

MATCHLINE STA 106+00.00

MATCHLINE STA 112+00.00

0710-111-0311-7
FAIT, PATRICK
CHELSEA FAIT
6211 Kilpatrick Ln

0710-111-0312-5
MACKLEM, TODD
SARAH MACKLEM
6213 Kilpatrick Ln

0710-111-0313-3
DICKRELL, ALAN L
JOAN H DICKRELL
6215 Kilpatrick Ln

0710-111-0310-9
FIX, DANIEL L
LEAH J FIX
6209 Kilpatrick Ln

0710-111-0301-8
BIRCHWOOD RIDGE CDMS ASSN
CONDO MGMT ASSOC LLC
6227 Kilpatrick Ln

EXISTING RIGHT-OF-WAY

MG&E ELEC

MG&E GAS

STA 107+81.94, LT 50.50'
INLETS 2X3-FT WITH INLET
COVERS TYPE H
13.2

EXISTING RIGHT-OF-WAY

15" CON.

6" PLASTIC GAS MAIN

GAS MAIN (TO BE ABANDONED)

COTTAGE GROVE RD

41+00 42+00 43+00 44+00 45+00 46+00

STA 107+83.28, LT 21.00
INLETS 2X3-FT WITH INLET
COVERS TYPE H
13.1

STA 107+88.64, LT 1.00'
MANHOLES 3X3-FT WITH INLET
COVERS TYPE H
13.0

107+00 108+00 109+00 110+00 111+00

12-IN D.I. (1998)

12-IN D.I. (1993)

12.0 STA 108+54.92, LT 6.09'
MANHOLES 3X3-FT WITH INLET
COVERS TYPE H

MG&E OVERHEAD ELEC

AT&T

MG&E GAS

STA 110+20.70, LT 50.50'
INLETS 2X3-FT WITH INLET
COVERS TYPE H
11.2

STA 110+20.70, LT 21.00'
INLETS 2X3-FT WITH INLET
COVERS TYPE H
11.1

STA 110+68.23, LT 90.50'
INLETS 2X3-FT WITH INLET
COVERS TYPE H-S
10.3

X-14

MG&E ELEC

McCLELLAN DR

8" DEC.

CONNECT TO EXISTING

10.2 STA 111+02.93, LT 91.21'
MANHOLES 3X3-FT WITH INLET
COVERS TYPE H

AT&T

10.1 STA 111+04.74, LT 56.30'
MANHOLES 3X3-FT WITH
MANHOLE COVERS TYPE J
SPECIAL REQ'D

X-11

X-10

X-12

X-9

15" RCP

24" RCP

6" PLASTIC GAS MAIN

GAS MAIN (TO BE ABANDONED)

STA 110+23.54, LT 12.00'
MANHOLES 3X3-FT WITH INLET
COVERS TYPE H
11.0

STA 111+46.29, LT 1.00'
MANHOLES 6X6-FT WITH INLET
COVERS TYPE H
10.0

COTTAGE GROVE RD

MG&E ELEC

X-17

X-13

X-16

X-15

X-8

2" PLASTIC GAS MAIN

19"X30" HERCP

15"X30" HERCP

12"X24"

AT&T

MG&E ELEC

EXISTING RIGHT-OF-WAY

CITY OF MADISON
SANITARY SEWER

STA 108+51.77, RT 28.50'
INLETS 2X3-FT WITH INLET
COVERS TYPE H
12.1

T.L.E.

STA 110+23.54, RT 28.50'
INLETS 2X3-FT WITH INLET
COVERS TYPE H
11.3

MG&E GAS

SEVERSON DR

0710-114-0204-8
FINGER, THOMAS J
& PAMELA A FINGER
5 Fredericksburg Ct

0710-114-0205-6
SEVERSIN, MICHAEL & LISA
9 Fredericksburg Ct

0710-114-1702-1
CHEN, YONG
& AMANDA LYNN CHEN
6221 Cottage Grove Rd

0710-114-1701-3
FIELDSTONE
ESTATES LLC
1002 Severson Dr

0710-114-1801-1
MAYWICK ESTATES CDM ASSN
ATTN TED FRANK
1001 Severson Dr #CDM

SEWER FLOW DIRECTION
XXXXX REMOVING STORM SEWER
REMOVING INLETS/MANHOLES

PROPOSED GROUND
EXISTING GROUND

13.0 998.29 TOC

12.0 997.87 TOC

11.0 995.29 TOC

10.0 991.34 TOC

298 LF SSPRC 21" @ 0.60%

66 LF SSPRC 21" @ 0.83%

169 LF SSPRC 21" @ 1.52%

123 LF SSPRC 24" @ 3.19%

301 LF SSPRC 27" @ 4.87%

EXISTING WATER MAIN

993.95(N)
993.22(W)
993.22(E)

6" PVC ELEC, TOP=994.35
TO BE RELOCATED
BY OTHERS

2" TEL CABLE, TOP=994.15
TO BE RELOCATED
BY OTHERS

12" WATER
TOP= 991.63

993.57(S)
992.70(W)
992.70(E)

6" ELEC, TOP= 992.94
TO BE RELOCATED
BY OTHERS

1" STEEL GAS
ABANDONED
TOP= 991.81

991.44(N)
990.67(S)
990.17(W)
990.17(E)

2" PLASTIC GAS
TOP= 986.4 APPROX.

8" WATER
TOP= 984.47

986.39(W)
986.69(NW)
985.90(E)

12" WATER
TOP= 981.42

MAINTAIN STORM WATER DRAINAGE DURING
CONSTRUCTION PER BID ITEM SPV.0105.06-
STORM CONTROL PLAN AND IMPLEMENTATION

1010 1005 1000 995 990 985 980 975 970

106+00 106+25 106+50 106+75 107+00 107+25 107+50 107+75 108+00 108+25 108+50 108+75 109+00 109+25 109+50 109+75 110+00 110+25 110+50 110+75 111+00 111+25 111+50 111+75 112+00

PROJECT NO: 5992-09-26	HWY:COTTAGE GROVE ROAD	COUNTY: DANE	STORM SEWER PLAN	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Storm\Design\Storm Sewer Plans\53W0472STM-PnP**7.dgn PLOT DATE : 9/23/2019 PLOT BY : enfbg PLOT NAME : PLOT SCALE : 39.9999 sf / in.

2

MATCHLINE STA 112+00.00

MATCHLINE STA 118+00.00

N

AT&T

MG&E OVERHEAD ELEC

MG&E ELEC

0710-111-0201-0
BIRCHWOOD RIDGE CDMS ASSN
CONDO MGMT ASSOC INC
6319 Kilpatrick Ln

T.L.E.

IRON PIN, PIPE
MARKER FOUND

EX SAS
7445-012
ADJ. SAS

PROPOSED RIGHT-OF-WAY

STA 117+34.44, LT 46.75'
INLETS 2X3-FT WITH INLET
COVERS TYPE H
8.2

STA 117+39.20, LT 17.25'
INLETS 2X3-FT WITH INLET
COVERS TYPE H
8.1

0710-111-0206-0
LYNCH, DANIEL J
6404 COTTAGE GROVE ROAD

ULO-3

6" PLASTIC GAS MAIN

GAS MAIN (TO BE ABANDONED)

MG&E
GAS

CAUTION

12-IN D.I. (1998)

12-IN D.I. (1998)

24"x36" CMP

XXXXX

XXXXX

EX. 10" PVC SAN

47+00

48+00

49+00

50+00

51+00

52+00

STA 114+25.96, LT 50.00'
INLETS 2X3-FT WITH INLET
COVERS TYPE H
9.2

9.1
STA 114+43.85, LT 12.90'
INLETS 2X3-FT WITH INLET
COVERS TYPE H

ST

27"

30"

113+00

114+00

115+00

116+00

117+00

COTTAGE GROVE RD

COTTAGE GROVE RD

MG&E
ELEC

AT&T

19"x30" HERCP

18" CMP

GAS SERVICE
(TO BE ABANDONED)

GAS MAIN
(TO BE ABANDONED)

2" PLASTIC GAS MAIN

EXISTING
RIGHT-OF-WAY

TLE (TYP)

AT&T

STA 114+47.25, LT 1.00'
MANHOLES 4X4-FT WITH INLET
COVERS TYPE H
9.0

STA 114+46.45, RT 28.50'
INLETS 2X3-FT WITH INLET
COVERS TYPE H
9.3

0710-114-1804-5
FIELDSTONE ESTATES LLC
STE 101
6326 Maywick Dr

IRON PIN, PIPE
MARKER FOUND

T.L.E.

0710-114-1810-2
FIRST WISCONSIN NATL BANK
3401 COTTAGE GROVE ROAD

STA 117+27.51, RT 28.50'
INLETS 2X3-FT WITH INLET
COVERS TYPE H
8.3

STA 117+42.44, LT 1.00'
MANHOLES 4X4-FT WITH INLET
COVERS TYPE H
8.0

0710-114-1811-0
HOSKING, BRIAN C
6409 COTTAGE GROVE ROAD

0710-114-1812-8
GEHRKE, RENO K
LYNNE M GEHRKE
6413 COTTAGE GROVE ROAD

2

SEWER FLOW DIRECTION

XXXXX REMOVING STORM SEWER

REMOVING INLETS/MANHOLES

995 990 985 980 975 970 965 960 955

990 985 980 975 970 965 960 955 950

PROPOSED GROUND

EXISTING GROUND

9.0

977.84
TOC

6" PVC ELEC
TOP= 974.06

301 LF SSPRC 27" @ 4.87%

EXISTING WATER MAIN

973.86(N)
973.49(S)
971.50(W)
971.00(E)

295 LF SSPRC 30" @ 2.88%

EX 10" SAN PVC

ADJUST MH COVER
EX #7445-012
STA 115+37.86, LT-33.17'
EX. RIM= 975.11
PROP. RIM= 975.02

PROPOSED GROUND

EXISTING GROUND

8.0

968.54
TOC

295 LF SSPRC 30" @ 2.88%

EX 10" SAN PVC

133 LF SSPRC 30" @ 2.51%

EXISTING WATER MAIN

965.09(N)
964.75(SW)
962.60(W)
962.60(E)

MAINTAIN STORM WATER DRAINAGE DURING
CONSTRUCTION PER BID ITEM SPV.0105.06-
STORM CONTROL PLAN AND IMPLEMENTATION

112+00 112+25 112+50 112+75 113+00 113+25 113+50 113+75 114+00 114+25 114+50 114+75 115+00 115+25 115+50 115+75 116+00 116+25 116+50 116+75 117+00 117+25 117+50 117+75 118+00

PROJECT NO: 5992-09-26	HWY:COTTAGE GROVE ROAD	COUNTY: DANE	STORM SEWER PLAN	SHEET 67	E

2

N

MATCHLINE STA 118+00.00

CONNECT EXISTING 18" STORM SEWER TO INLET 4.1

STA 121+08.69, LT 90.92'
INLETS 2X3-FT WITH INLET COVERS TYPE H-S (4.1)

ULO-2

CONNECT EXISTING 18" STORM SEWER TO INLET 4.1

STA 120+76.37, LT 47.87'
INLETS 2X3-FT WITH INLET COVERS TYPE H (5.2)

PIPE UNDERDRAIN WRAPPED 6-INCH

STA 120+68.07, LT 18.30'
INLETS 2X3-FT WITH INLET COVERS TYPE H (5.1)

STA 120+68.61, LT 11.00'
MANHOLES 5X5-FT WITH INLET COVERS TYPE H (5.0)

EX.8" PVC SAN

EX.SAS #7445-010 ADJ.RIM

0710-111-0205-2
STAGE TWO DEVELOPMENT LLC
6420 Cottage Grove Rd

EX.SAS #7445-011 ADJ.RIM

MG&E OVERHEAD ELEC

MG&E GAS

EXISTING RIGHT-OF-WAY

6" PLASTIC GAS MAIN

GAS MAIN (TO BE ABANDONED)

EX.10" PVC SAN

MG&E GAS

EX.10" PVC SAN

EX.SAS #7445-018 ADJ.RIM

ATC-DUCT PACKAGE

EX.SAS #7545-005 ADJ.RIM

COTTAGE GROVE RD

SPRECHER ROAD

CONNECT UPSTREAM TO EXISTING

EX 1.1 STA 121+14.51, LT 92.85'
RECONSTRUCTING MANHOLE WITH MANHOLE COVERS TYPE J SPECIAL REQ'D

4.0 STA 121+24.95, LT 65.22'
MANHOLES 6X6-FT WITH MANHOLE COVERS TYPE J SPECIAL REQ'D

3.1 STA 121+68.04, LT 74.72'
INLETS 2X3-FT WITH INLET COVERS TYPE H-S

3.0 STA 121+60.92, LT 64.00'
MANHOLES 6X6-FT WITH MANHOLE COVERS TYPE J SPECIAL REQ'D

2.0 STA 121+97.45, LT 45.25'
MANHOLES 6X6-FT WITH INLET COVERS TYPE H

0710-122-9152-0
CGRD LLC
3420 COUNTY HIGHWAY BB

ULO-1

X-3

X-2

X-4

X-5

INSTALL FLUID THERMAL BACKFILL

MG&E GAS

12-IN D.I. (1999)

2" PLASTIC GAS MAIN

CITY OF MADISON TRAFFIC ENG

MG&E ELEC

X-7

PIPE UNDERDRAIN WRAPPED 6-INCH

X-6

EX.SAS #7446-010 ADJ.RIM

X-1

EXISTING RIGHT-OF-WAY

T.L.E

STA 118+74.95, RT 5.45' (7.0)
MANHOLES 4X4-FT WITH MANHOLE COVERS TYPE J SPECIAL REQ'D

0710-114-1812-8
GEHRKE, RENO K
LYNNE M GEHRKE
6413 COTTAGE GROVE ROAD

0710-114-1813-6
NEUHENGEN, RICHARD
6417 COTTAGE GROVE ROAD

0710-114-1808-7
PITTZ, BRADY MICHAEL
JACQUELINE NICOLE PITTZ
1002 S Sprecher Rd

STA 120+42.91, RT 6.00' (6.0)
MANHOLES 4X4-FT WITH MANHOLE COVERS TYPE J SPECIAL REQ'D

EX.8" PVC SAN

SPRECHER ROAD

STA 120+65.86, RT 33.00' (EX 2.1)
ADJUSTING INLET COVERS

EXISTING STORM SEWER TO REMAIN

STA 121+03.93, RT 30.29' (EX 2.0)
ADJUSTING MANHOLE COVERS

MG&E

EXISTING STORM SEWER TO REMAIN

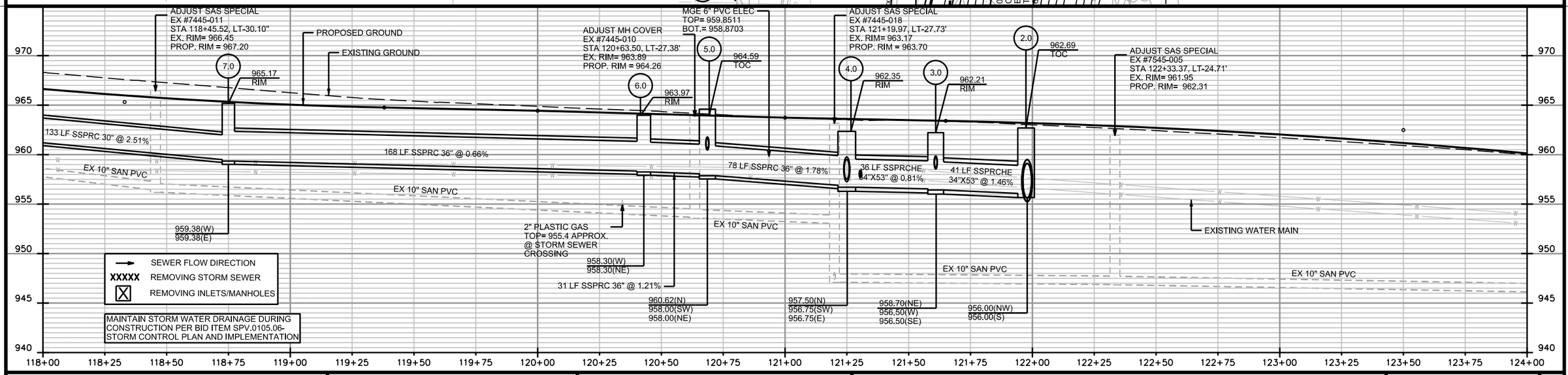
0710-123-0304-7
CITY OF MADISON
ENGINEER FUTURE
TRANSPORTATION 53
6563 Cottage Grove Rd

PROPOSED RIGHT-OF-WAY

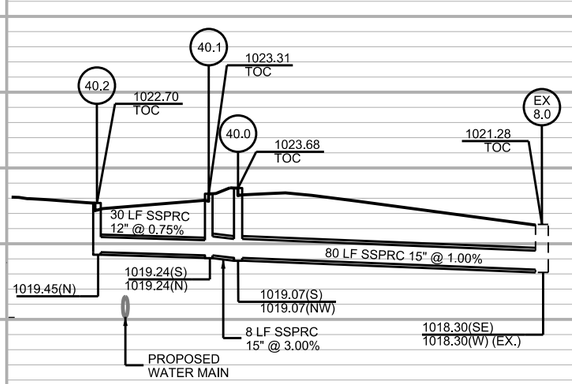
1.0 STA 121+98.85, RT 68.76'
APRON ENDWALL 42" RCP WITH PIPE GRATE

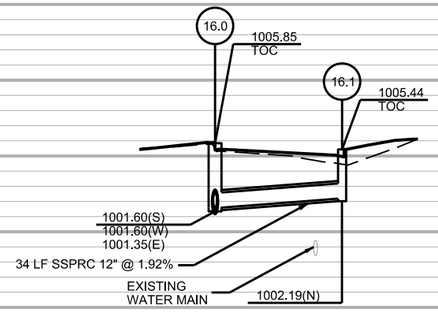
EXISTING RIGHT-OF-WAY

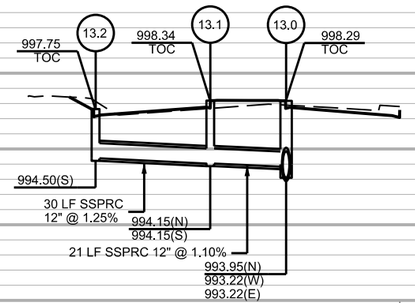
0710-123-0302-1
LOL555 HOLDINGS LLC
1011 S Sprecher Rd

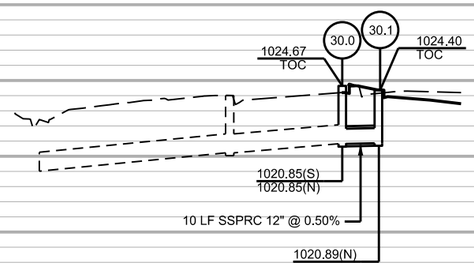


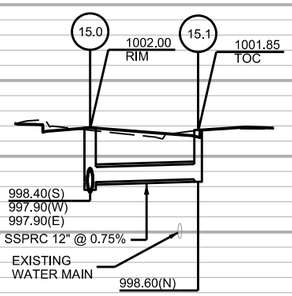
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	STORM SEWER PLAN	SHEET 68	E

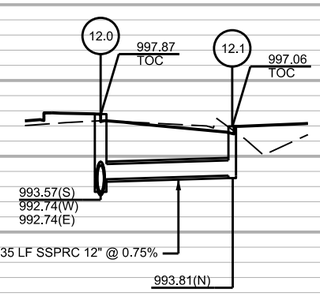

40.2
1022.70
TOC
40.1
1023.31
TOC
40.0
1023.68
TOC
EX
8.0
1021.28
TOC
30 LF SSPRC
12" @ 0.75%
80 LF SSPRC 15" @ 1.00%
1019.45(N)
1019.24(S)
1019.24(N)
1019.07(S)
1019.07(NW)
8 LF SSPRC
15" @ 3.00%
1018.30(SE)
1018.30(W) (EX.)
PROPOSED
WATER MAIN

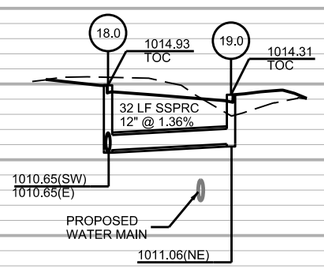

16.0
1005.85
TOC
16.1
1005.44
TOC
1001.60(S)
1001.60(W)
1001.35(E)
34 LF SSPRC 12" @ 1.92%
EXISTING
WATER MAIN
1002.19(N)

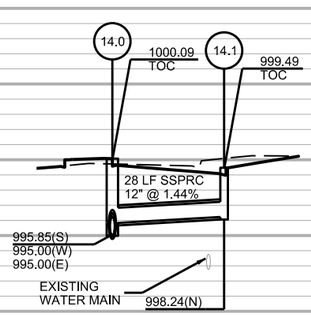

13.2
997.75
TOC
998.34
TOC
13.1
13.0
998.29
TOC
994.50(S)
30 LF SSPRC
12" @ 1.25%
994.15(N)
994.15(S)
21 LF SSPRC 12" @ 1.10%
993.95(N)
993.22(W)
993.22(E)

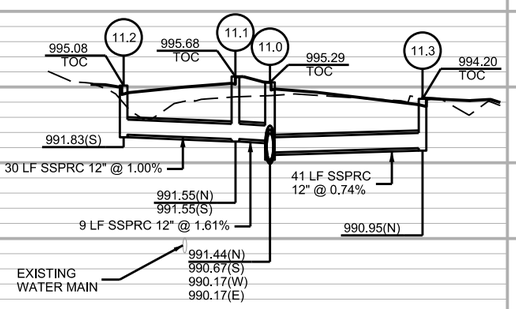

30.0
30.1
1024.67
TOC
1024.40
TOC
1020.85(S)
1020.85(N)
10 LF SSPRC 12" @ 0.50%
1020.89(N)

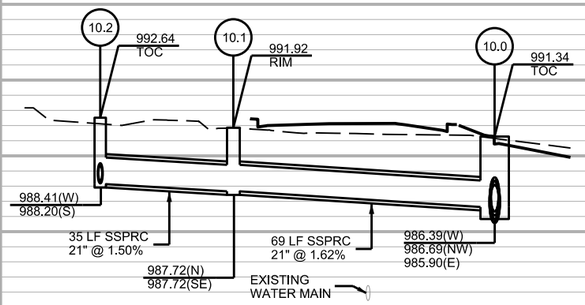

15.0
1002.00
RIM
15.1
1001.85
TOC
998.40(S)
997.90(W)
997.90(E)
29 LF SSPRC 12" @ 0.75%
EXISTING
WATER MAIN
998.60(N)

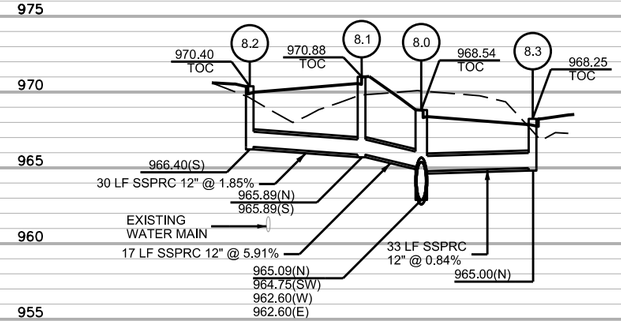

12.0
997.87
TOC
12.1
997.06
TOC
993.57(S)
992.74(W)
992.74(E)
35 LF SSPRC 12" @ 0.75%
993.81(N)

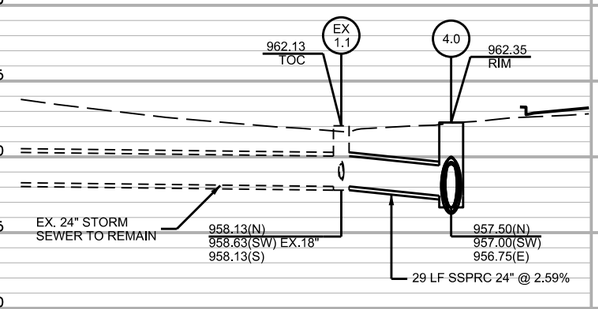

18.0
1014.93
TOC
19.0
1014.31
TOC
32 LF SSPRC
12" @ 1.36%
1010.65(SW)
1010.65(E)
PROPOSED
WATER MAIN
1011.06(NE)

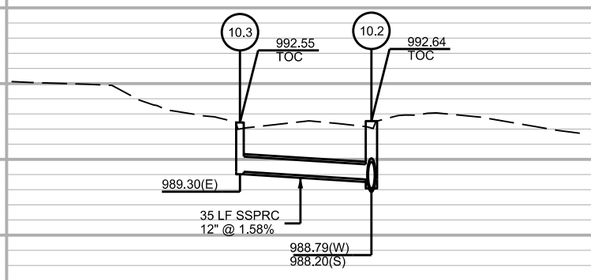

14.0
1000.09
TOC
14.1
999.49
TOC
28 LF SSPRC
12" @ 1.44%
995.85(S)
995.00(W)
995.00(E)
EXISTING
WATER MAIN
998.24(N)

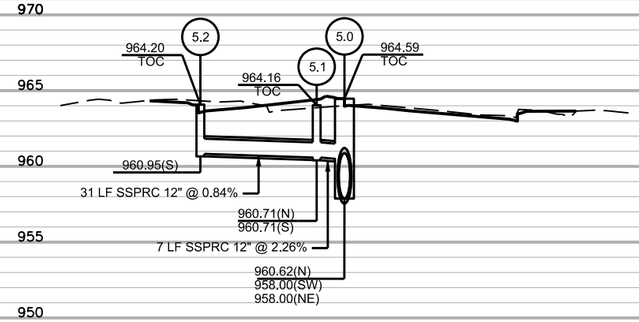

995.08
TOC
11.2
995.68
TOC
11.1
11.0
995.29
TOC
11.3
994.20
TOC
991.83(S)
30 LF SSPRC 12" @ 1.00%
991.55(N)
991.55(S)
9 LF SSPRC 12" @ 1.61%
41 LF SSPRC
12" @ 0.74%
990.95(N)
991.44(N)
990.67(S)
990.17(W)
990.17(E)
EXISTING
WATER MAIN

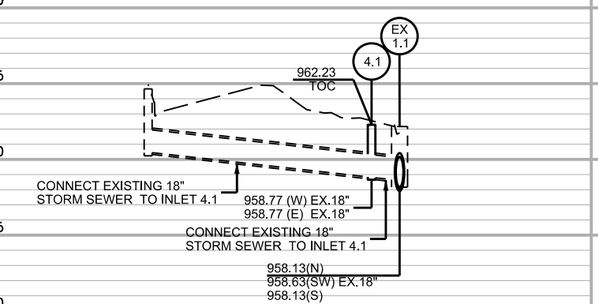


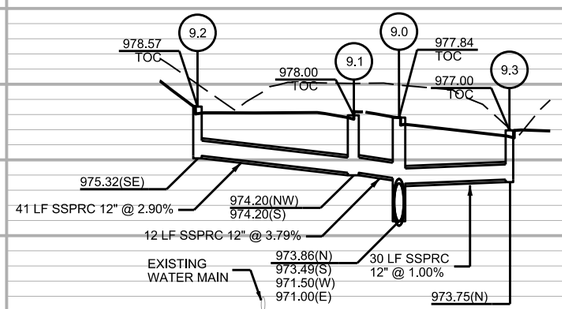


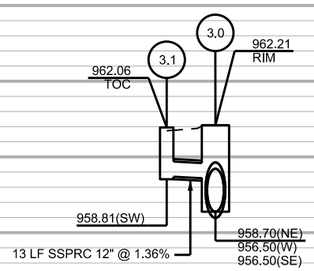


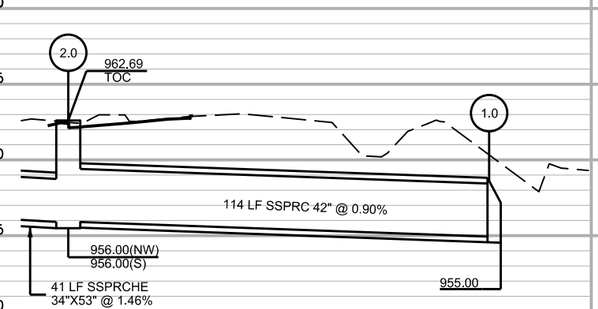






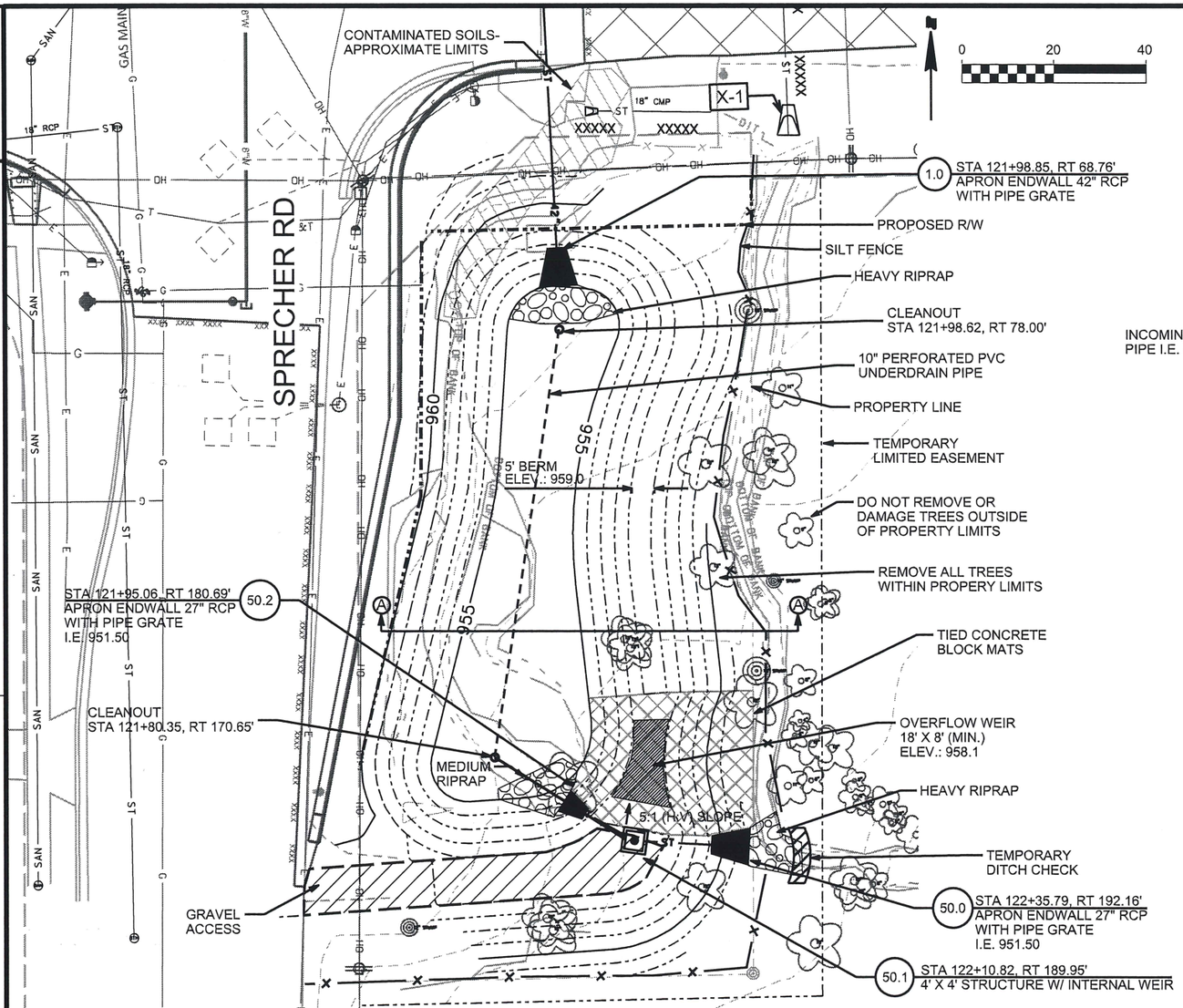


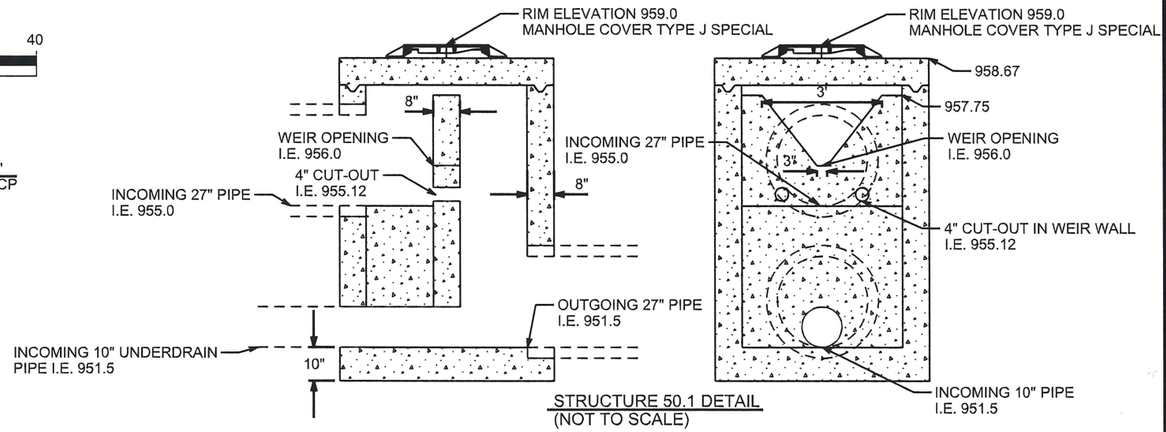


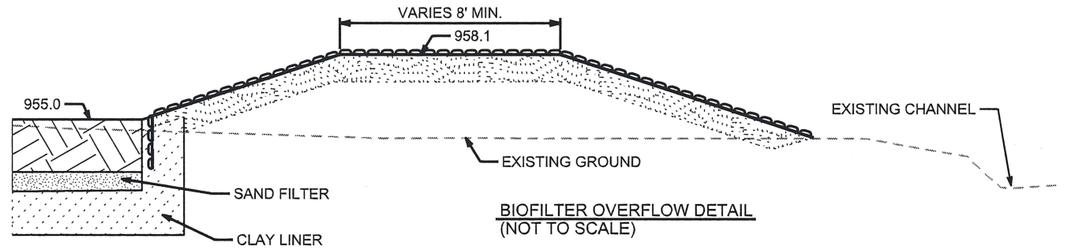


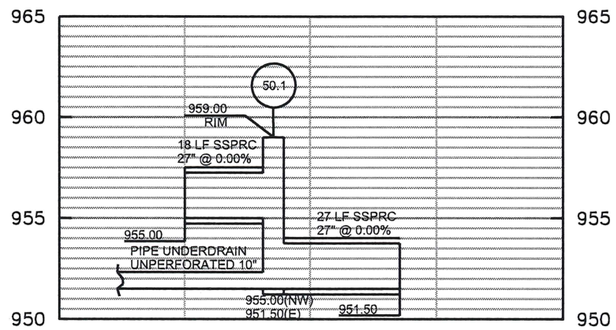
PROJECT NO:5992-09-26	HWY:COTTAGE GROVE ROAD	COUNTY:DANE	STORM SEWER PLAN	SHEET E

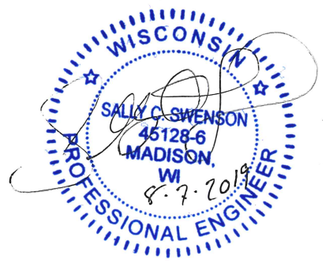
FILE NAME : M:\DESIGN\Projects\53W0472\Storm\Design\Storm Sewer Plans\53W0472STM-ProfShT"2.dgn PLOT DATE : 9/17/2019 PLOT BY : enfbg PLOT NAME : PLOT SCALE : 40.0000 sf / in.
WISDOT/CADDS SHEET 41

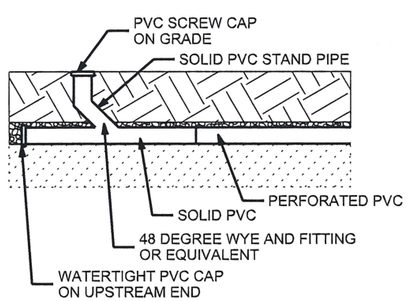


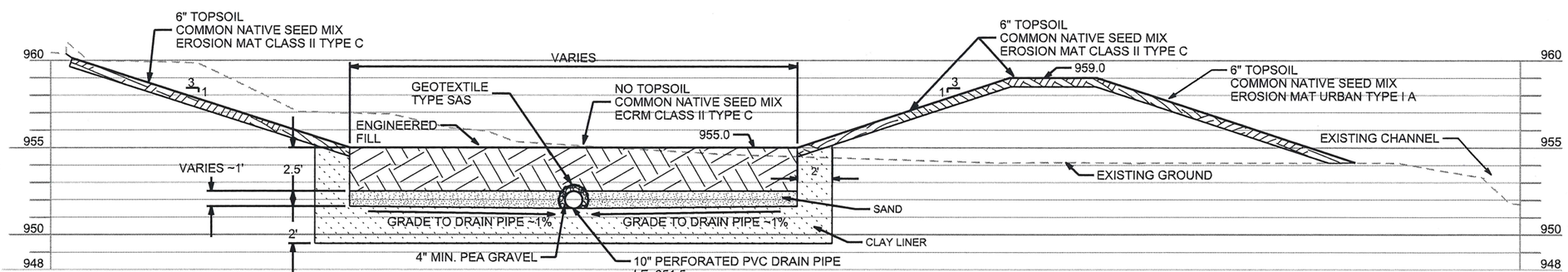












PROJECT NO: 5992-09-26	HWY:COTTAGE GROVE ROAD	COUNTY: DANE	BIOFILTER BASIN PLAN	SHEET

FILE NAME : M:\DESIGN\Projects\53W0472\Storm\Design\Storm Sewer Plans\53W0472STM-PondDetail.dgn PLOT DATE : 8/7/2019 PLOT BY : enfbg PLOT NAME : _____ PLOT SCALE : 29.9999 sf / in.

WISDOT/CADDS SHEET 42

REMOVE AND REPLACE WALK SECTIONS AS REQ.

STA 0+44.5 / 0.0'LT
16-IN X 16-IN TEE
CUT-IN CONNECTION

STA 0+47.5 / 0.0'LT
16-IN VALVE & BOX

INSULATION (TYP.)

SEEDING/MATTING AREA (TYP.)

0710-112-0099-7
CITY OF MADISON POLICE
EAST DISTRICT STATION
809 S Thompson Dr

STA 3+00.0 / 0.0'RT
20-IN X 16-IN REDUCER
CONNECT TO HDPE
INSTALL TRACER WIRE BOX
DIRECTIONAL DRILL LIMITS

STA 2+97.0 / 0.0'RT
16-IN X 6-IN TEE

STA 2+97.0 / 3.0'RT
6-IN VALVE & BOX

STA 2+97.0 / 6.0'RT
5-IN HYDRANT

APPROX. 775-FT OF 20-INCH
HDPE PIPE VIA DIRECTIONAL
DRILL UNDER INTERSTATE
SEE PROFILE AND SHEET W-2

PONDING AREA

APPROX. SOIL BORING
LOCATION / # (TYP.)
SEE SOIL BORING REPORT

ULO:
GAS/ELECTRIC/FIBER
UTILITIES

N

MATCHLINE STA 6+00.00

0+00 1+00 2+00 3+00 4+00 5+00 6+

#1 #2

S. THOMPSON DR

COTTAGE GROVE RD

16-IN D.I. (1980)

12-IN D.I. (1980)

16-IN D.I. (1980)

4" 60PSI

16-IN D.I. (1980)

16-IN X 16-IN TEE
CUT-IN CONNECTION

16-IN VALVE & BOX

16-IN X 6-IN TEE

20-IN X 16-IN REDUCER

EXISTING GROUND PROFILE
AT ALIGNMENT CENTER

6-FT (TYP.)

PROP 16-IN WM

APPROX. BEDROCK DEPTH
SEE SOIL BORING REPORT

STA 5+00 - STA 8+25 ±
MAINTAIN MIN DEPTH ~940.0

20-IN HPDE PIPE / APPROX. DIRECTIONAL DRILL PATH

975 970 965 960 955 950 945 940 935

0+00 0+25 0+50 0+75 1+00 1+25 1+50 1+75 2+00 2+25 2+50 2+75 3+00 3+25 3+50 3+75 4+00 4+25 4+50 4+75 5+00 5+25 5+50 5+75 6+00

PROJECT NO: 5992-09-27	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	WATER PLAN AND PROFILE / W-1	SHEET 72	E

2

APPROX. 775-FT OF 20-INCH HDPE PIPE VIA DIRECTIONAL DRILL UNDER INTERSTATE SEE PROFILE AND SHEET W-1

STA 6+75.0 / 0.0'LT BEGIN 1200-FT RADIAL DIRECTION

ULO (2): FIBER UTILITIES

APPROX. SOIL BORING LOCATION / # (TYP.) SEE SOIL BORING REPORT

ULO (3): GAS, ELECTRIC, FIBER UTILITIES

STA 9+90.7 / 22.3'LT END 1200-FT RADIAL DIRECTION

ULO: FIBER UTILITY

STA 10+78.0 / 0.0'RT 20-IN X 16-IN REDUCER CONNECT TO HDPE INSTALL TRACER WIRE BOX DIRECTIONAL DRILL LIMITS

STA 10+81.0 / 0.0'RT 16-IN X 6-IN TEE

STA 10+81.0 / 3.0'RT 6-IN VALVE & BOX

STA 10+81.0 / 6.0'RT 5-IN HYDRANT

STA 11+86.6 / 0.0'RT PIPE DEFLECTION PT

#3 #4 #5

MATCHLINE STA 6+00.00

MATCHLINE SHEET W-3

N

12" ST - IN CASING

4" 60PSI 6" 60PSI

12" ST

RIM EL = 983.568
12" SE INV = 979.718
12" NW INV = 974.928
24" NW INV = 974.828

INTERSTATE 90 INTERSTATE 39

COTTAGE GROVE RD OVERPASS BRIDGE

COTTAGE GROVE RD

TC: 998.76
12" SE INV = 987.513
12" NW INV = 987.363

TC: 998.76
IE: 989.63

11+00 16"W 16"W

SEE SHEET W-3 FOR CONTINUATION

SEEDING/MATTING AREA (TYP.)

AT&T

EXISTING GROUND PROFILE AT ALIGNMENT CENTER

EXISTING GROUND PROFILE AT ALIGNMENT CENTER

20-IN X 16-IN REDUCER

16-IN X 6-IN TEE

6-FT (TYP.)

SEE W-3

EX 24-IN STM

CONTINUATION POINT; ANGLE OR RADIUS MAY VARY

20-IN HPDE PIPE / APPROX. DIRECTIONAL DRILL PATH

EX 24-IN STM

APPROX. BEDROCK DEPTH SEE SOIL BORING REPORT

APPROX. BEDROCK DEPTH SEE SOIL BORING REPORT

MIN 30-FT

STA 5+00 - STA 8+25 ± MAINTAIN MIN DEPTH ~940.0

MINIMUM 12-IN BOREHOLE CLEARANCE AROUND STORM SEWER AT XING

APPROX. BEDROCK DEPTH SEE SOIL BORING REPORT

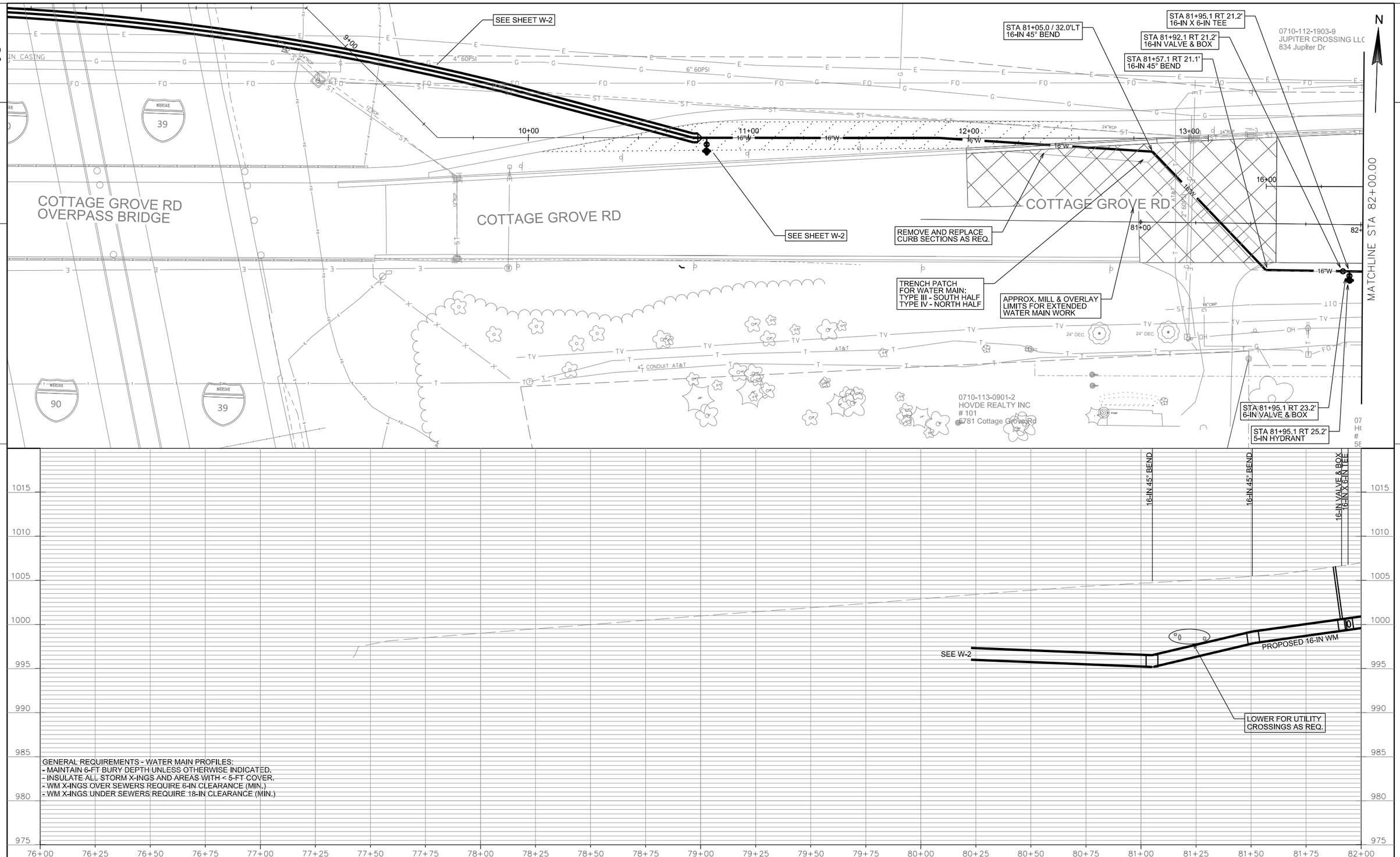
20-IN HPDE PIPE / APPROX. DIRECTIONAL DRILL PATH

980 975 970 965 960 955 950 945 940

1000 995 990 985 980 975 970 965 960

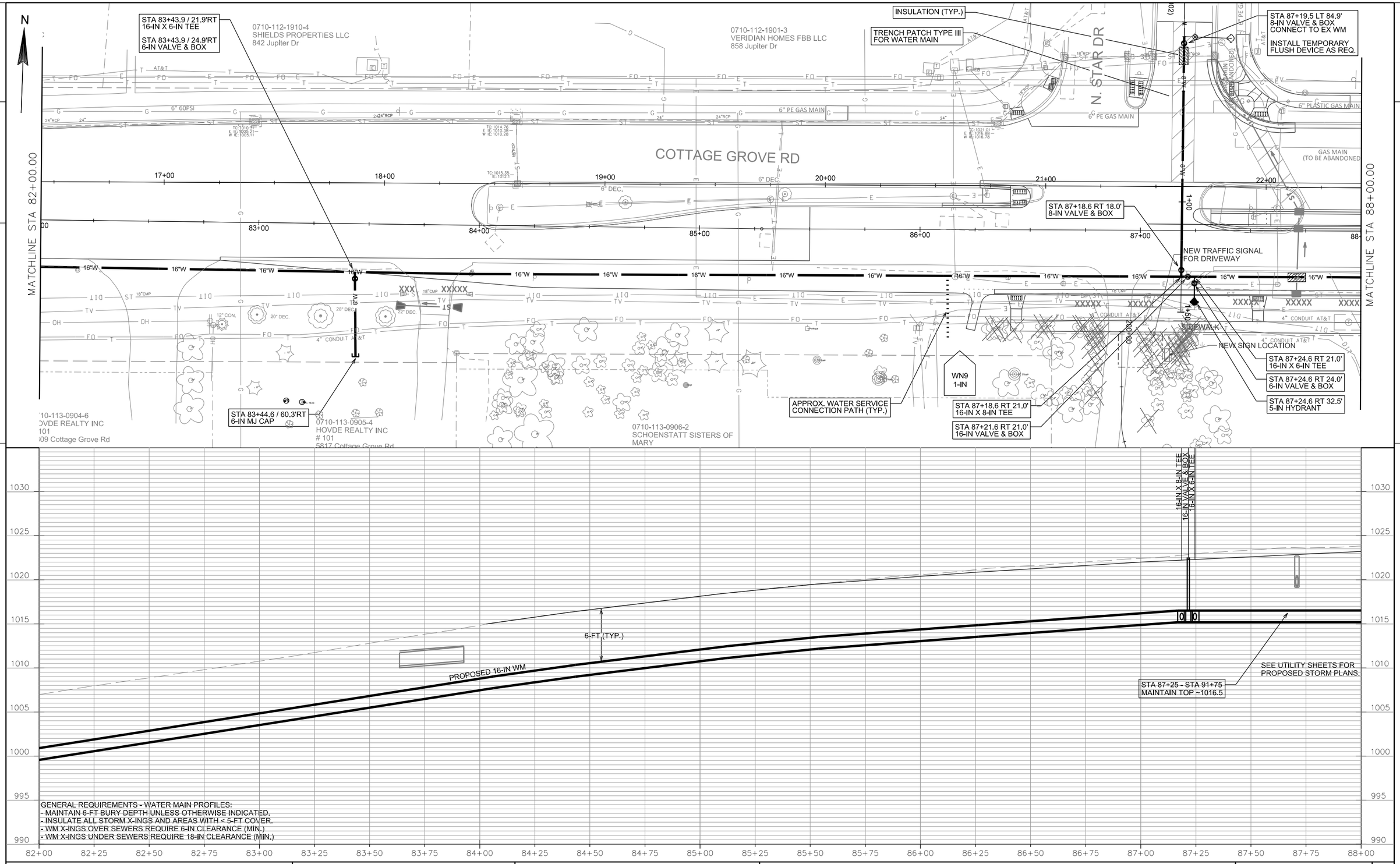
6+00 6+25 6+50 6+75 7+00 7+25 7+50 7+75 8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00

PROJECT NO: 5992-09-27	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	WATER PLAN AND PROFILE / W-2	SHEET 73	E



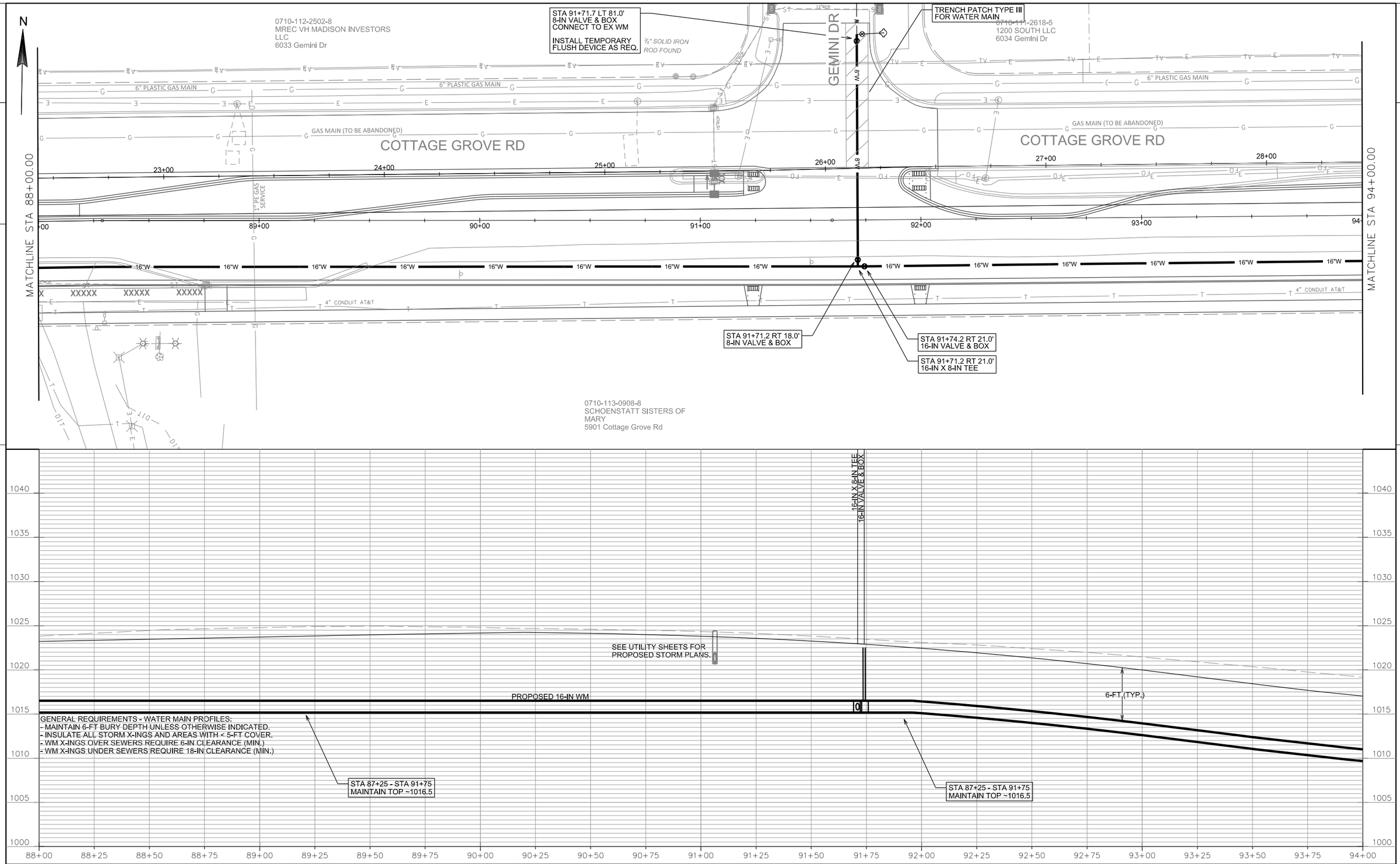
GENERAL REQUIREMENTS - WATER MAIN PROFILES:
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
- INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
- WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
- WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

PROJECT NO: 5992-09-27	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	WATER PLAN AND PROFILE / W-3	SHEET 74	E



GENERAL REQUIREMENTS - WATER MAIN PROFILES:
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
- INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
- WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
- WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

PROJECT NO: 5992-09-27	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	WATER PLAN AND PROFILE / W-4	SHEET 75	E



PROJECT NO: 5992-09-27	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	WATER PLAN AND PROFILE / W-5	SHEET 76	E

2

N

MATCHLINE STA 94+00.00

MATCHLINE STA 100+00.00

0710-111-2616-9
1200 SOUTH LLC
6010 Cottage Grove Rd

0710-111-2615-1
GRANDVIEW COMMONS
HOMEOWNERS ASSN INC
6045 Big Dipper Dr

INSULATION (TYP.)

¾" SOLID IRON ROD FOUND

6" PLASTIC GAS MAIN

GAS MAIN (TO BE ABANDONED)

COTTAGE GROVE RD

29+00 30+00 31+00 32+00 33+00 34+00

95+00 96+00 97+00 98+00 99+00 100

16"W

12"

ST

4" DEC.

4" CONDUIT AT&T

8" DUCT AT&T

SHRUBS

¾" SOLID IRON ROD FOUND

12-IN D.I. (1993)

1 ¼" SOLID IRON ROD FOUND

¾" SOLID IRON ROD FOUND

STA 95+58.2 RT 20.5'
16-IN X 6-IN TEE

STA 95+58.1 RT 23.5'
6-IN VALVE & BOX

STA 95+58.0 RT 45.1'
5-IN HYDRANT

STA 99+48.9 RT 21.3'
16-IN X 12-IN REDUCER

STA 99+51.9 RT 21.4'
12-IN VALVE & BOX
CONNECT TO EX WM

RELOCATE EXISTING HYDRANT TO STA 99+54.9 RT 35.1'

0710-114-0106-6
SEMOVSKI, NEDZMI
& NERMIN SEMOVSKI
6102 Fredericksburg Ln

0710-114-0105-8
HILL, KATHRYN D
& GREGORY J CIESLEWICZ
6106 Fredericksburg Ln

0710-114-0102-4
DICKRELL, ALAN & JOAN
6110 Fredericksburg Ln

0710-114-0101-6
FRANK, LARRY D
& SANDRA J FRANK
6118 Fredericksburg Ln

16-IN X 6-IN TEE

16-IN X 12-IN REDUCER
12-IN VALVE & BOX

1025 1020 1015 1010 1005 1000 995 990 985

6-FT. (TYP.)

PROPOSED 16-IN WM

SEE UTILITY SHEETS FOR PROPOSED STORM PLANS.

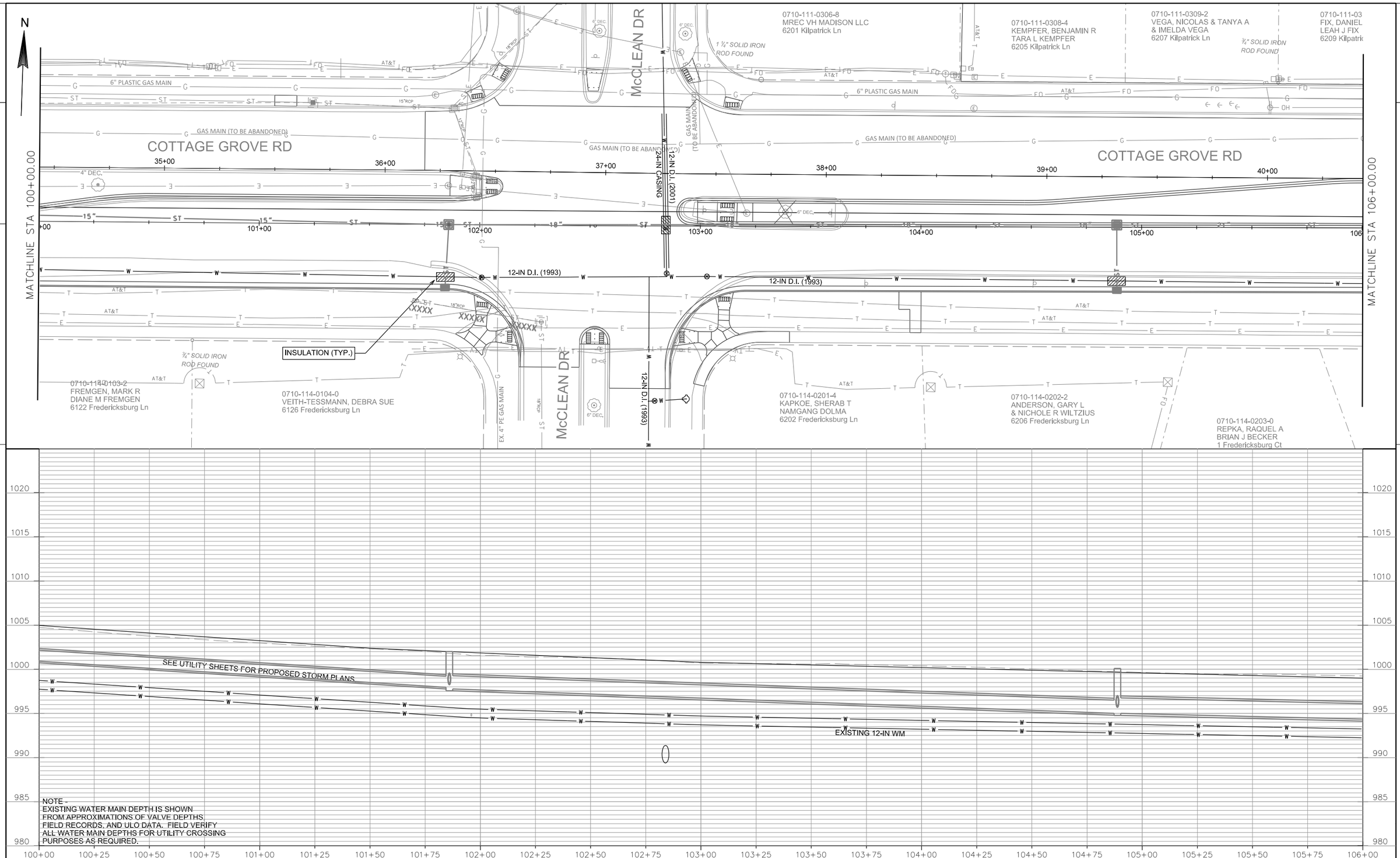
EXISTING 12-IN WM

GENERAL REQUIREMENTS - WATER MAIN PROFILES:
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
- INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
- WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
- WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

94+00 94+25 94+50 94+75 95+00 95+25 95+50 95+75 96+00 96+25 96+50 96+75 97+00 97+25 97+50 97+75 98+00 98+25 98+50 98+75 99+00 99+25 99+50 99+75 100+00

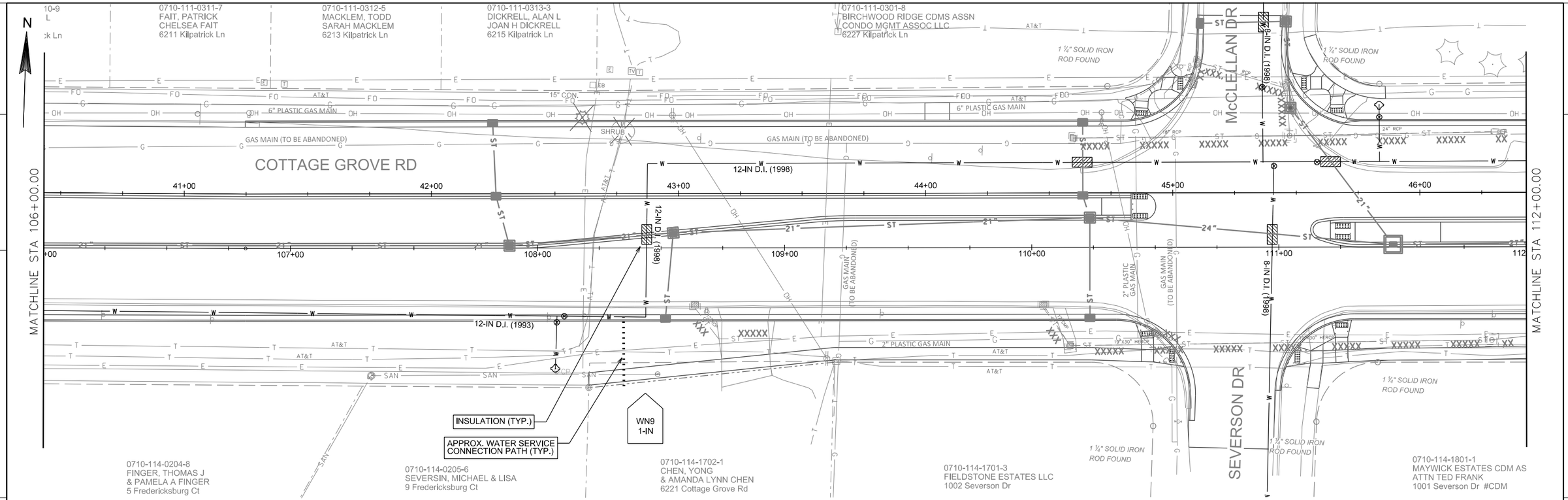
PROJECT NO: 5992-09-27	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	WATER PLAN AND PROFILE / W-6	SHEET 77	E

FILE NAME : M:\DESIGN\Projects\53W0472\Water\Design\53W0472WU-PnP**6.dgn PLOT DATE : 9/17/2019 PLOT BY : wupeh PLOT NAME : PLOT SCALE : 40.0000 sf / in.



PROJECT NO: 5992-09-27	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	WATER PLAN AND PROFILE / W-7	SHEET 78	E

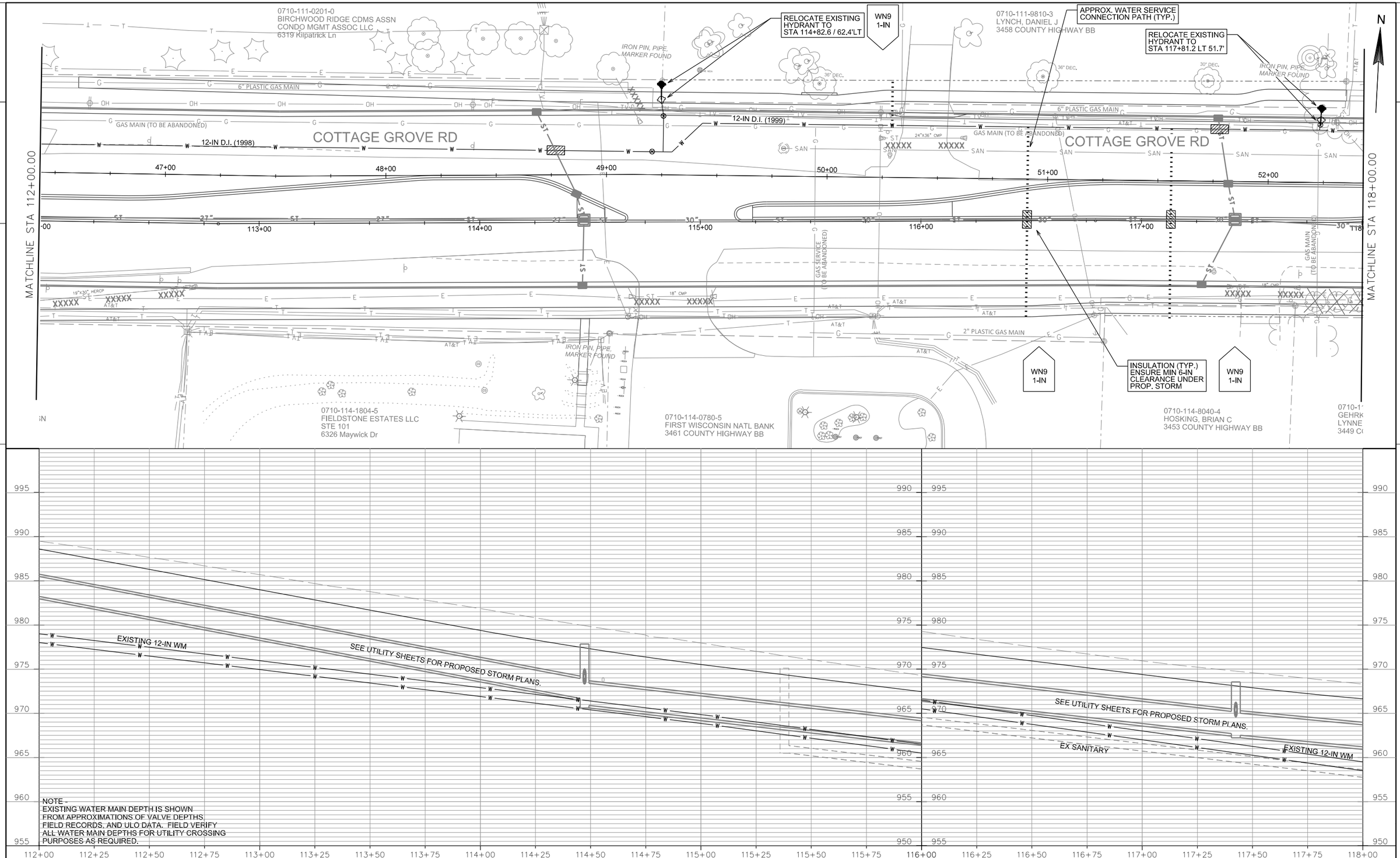
FILE NAME : M:\DESIGN\Projects\53W0472\Water\Design\53W0472WU-PnP**7.dgn PLOT DATE : 9/17/2019 PLOT BY : wupeh PLOT NAME : PLOT SCALE : 40.0000 sf / in.



PROJECT NO: 5992-09-27	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	WATER PLAN AND PROFILE / W-8	SHEET 79	E

FILE NAME : M:\DESIGN\Projects\53W0472\Water\Design\53W0472WU-PnP**8.dgn PLOT DATE : 9/17/2019 PLOT BY : wupeh PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 46



PROJECT NO: 5992-09-27	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	WATER PLAN AND PROFILE / W-9	SHEET 80	E

N

MATCHLINE STA 118+00.00

0710-111-0205-2
STAGE TWO DEVELOPMENT LLC
6420 Cottage Grove Rd

APPROX. WATER SERVICE CONNECTION PATH (TYP.)

STA 121+37.0 / 92.7'LT
12-IN X 8-IN TAP SLEEVE
8-IN TAPPING VALVE

STA 121+35.9 / 64.9'LT
4 X 8-IN 45° BENDS
UNDER PROP STORM
TOP ~954.0 AT CROSSING
SEE PROFILE

IRON PIN, PIPE MARKER FOUND

12-IN D.I. (1999)

0710-122-9152-0
CGRD LLC
3420 COUNTY HIGHWAY BB

6" PLASTIC GAS MAIN

GAS MAIN (TO BE ABANDONED)

COTTAGE GROVE RD

6" PLASTIC GAS MAIN

2" COAST

12-IN D.I. (1999)

53+00 54+00 55+00 56+00 57+00 58+00

118+00 119+00 120+00 121+00 122+00 123+00 124+00

WN9
1-IN

WN9
1-IN

INSULATION (TYP.)
ENSURE MIN 6-IN
CLEARANCE UNDER
PROP. STORM

STA 120+95.5 / 67.9'RT
5-IN HYDRANT
REPLACE CURB AS REQ.

STA 121+27.5 / 69.2'RT
6-IN VALVE & BOX

STA 121+30.5 / 69.3'RT
8-IN X 6-IN TEE
w/ 8-IN MJ PLUG

SPRECHER RD

14-8030-6
KE, RENO K
M GEHRKE
OUNTY HIGHWAY BB

0710-114-8020-8
NEUHENGEN, RICHARD
3445 COUNTY HIGHWAY BB

0710-114-1808-7
PITTZ, BRADY MICHAEL
JACQUELINE NICOLE PITTZ
1002 S Sprecher Rd

0710-123-0302-1
LOL555 HOLDINGS LLC
1011 S Sprecher Rd

0304-7
ADISON ENGINEER
RANSPORTATION 535
ge Grove Rd

SEE UTILITY SHEETS FOR PROPOSED STORM PLANS.

EX SANITARY

EXISTING 12-IN WM

EX SANITARY

NOTE -
EXISTING WATER MAIN DEPTH IS SHOWN FROM APPROXIMATIONS OF VALVE DEPTHS, FIELD RECORDS, AND ULO DATA. FIELD VERIFY ALL WATER MAIN DEPTHS FOR UTILITY CROSSING PURPOSES AS REQUIRED.

980 975 970 965 960 955 950 945 940

118+00 118+25 118+50 118+75 119+00 119+25 119+50 119+75 120+00 120+25 120+50 120+75 121+00 121+25 121+50 121+75 122+00 122+25 122+50 122+75 123+00 123+25 123+50 123+75 124+00

PROJECT NO: 5992-09-27	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	WATER PLAN AND PROFILE / W-10	SHEET 81	E

FILE NAME : M:\DESIGN\Projects\53W0472\Water\Design\53W0472WU-PnP**10.dgn PLOT DATE : 9/17/2019 PLOT BY : wupeh PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 46

2

2

DISCLAIMER NOTE:
THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES TO AID PLANNING CONNECTION POINT ISOLATION AND PREPARING NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

N

V-4

V-2

SERVICES TO MADISON POLICE EAST DISTRICT STATION

CUT-IN CONNECTION (W-1)

S THOMPSON DR

INTERSTATE 39/90

COTTAGE GROVE ROAD

COTTAGE GROVE ROAD

EMMA CT

S THOMPSON DR

INTERSTATE 39/90

N

PROJECT NO: 5992-09-27	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	WATER IMPACT PLAN / W-11	SHEET 82	E

DISCLAIMER NOTE:
THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES TO AID PLANNING CONNECTION POINT ISOLATION AND PREPARING NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

N

2

2

SHARPSBURG DR

NORTHSTAR DR

GEMINI DR

COTTAGE GROVE RD

FREDRICKSBURG LN

V-3011

V-7

V-14

V-13

V-15

V-28

CUT-IN CONNECTION (W-5)

CUT-IN CONNECTION (W-5)

CUT-IN CONNECTION (W-5)

180A

800 826 5902 5900 6004 6011 6013 6015 6017 6019 6021 6023 6045

876 900 858 864 6003 6035 6019 6051 6067 6075 6079 6083

6012 6016 6020 6030 6034 6038 6010 6000

6104 6108 6118 6103 6107 6111 900

5825 5827

6102 6106 6110 6118 6122 6100 6126 1000

6100

6010 6006 6002 6101 6109 6117 6121 6125 1106 1110 6070 6014 6018 6022

PROJECT NO: 5992-09-27 | HWY: COTTAGE GROVE ROAD | COUNTY: DANE | WATER IMPACT PLAN / W-12 | SHEET 83 | E

CONSTRUCTION NOTES:

1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. THE EXISTING UTILITIES SHOWN ON THIS PLAN REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN PREPARATION. CONTRACTOR IS RESPONSIBLE FOR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.

WN1 REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.

WN2 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.

WN3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.

WN4 DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.

WN5 RELOCATE THE EXISTING FIRE HYDRANT.

WN6 ABANDON WATER VALVE ACCESS STRUCTURE.

WN7 FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.

WN8 ABANDON THE VALVE BOX.

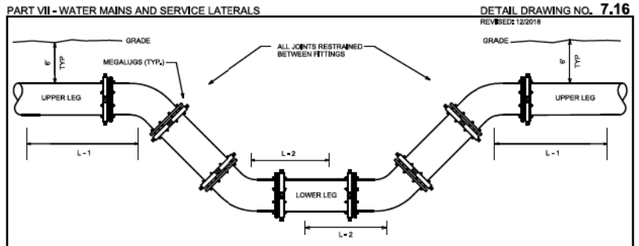
WN9 FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.

WN10 REMOVE AND SALVAGE EXISTING HYDRANT

WN11 REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE

WN20+ SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTFICATION INFORMATION.

PART VII - WATER MAINS AND SERVICE LATERALS — DETAIL DRAWING NO. 7.16
REVISED 12/2018



L - 1: RESTRAINED JOINT LENGTH UPPER LEG OF VERTICAL BEND

L - 2: RESTRAINED JOINT LENGTH LOWER LEG OF VERTICAL BEND

*NOTE - AS THE BEND ANGLE APPROACHES 90° (VERTICAL SWEEPS/OFFSETS), LATERAL MOVEMENT OF THE OUTER LEGS APPROACHES ZERO, FOR THIS CONDITION, RESTRAIN ALL PIPE BETWEEN THE FITTINGS AND RESTRAIN THE OUTER LEGS AS DEAD ENDS.

	45° BEND		22.5° BEND		11.25° BEND	
FITTING SIZE (IN)	L - 1 (FT)	L - 2 (FT)	L - 1 (FT)	L - 2 (FT)	L - 1 (FT)	L - 2 (FT)
4	13	3	6	2	3	1
6	18	4	9	2	5	1
8	24	5	12	3	6	2
10	28	6	14	3	7	2
12	34	7	16	4	8	2
16	43	10	21	5	11	3
20	53	12	26	6	13	3
24	62	13	30	7	15	4

NOTES:
SOURCE: Adapted from the DIPRA Iron Restraint Length Calculator, Version 7.1.2
Material: Poly Wrapped Ductile Iron Pipe
Soil Type = Gravelly Gravels, Gravel-Sand Mixtures
Test Pressure = 150 PSI
Safety Factor = 1.5
Trench Type = 4
Bury Depth = 6'
Low Side Depth = 6'

CITY OF MADISON WATER UTILITY	NOT TO SCALE	JOINT RESTRAINT LENGTHS FOR VERTICAL BENDS

City of Madison Standard Specifications for Public Works Construction

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

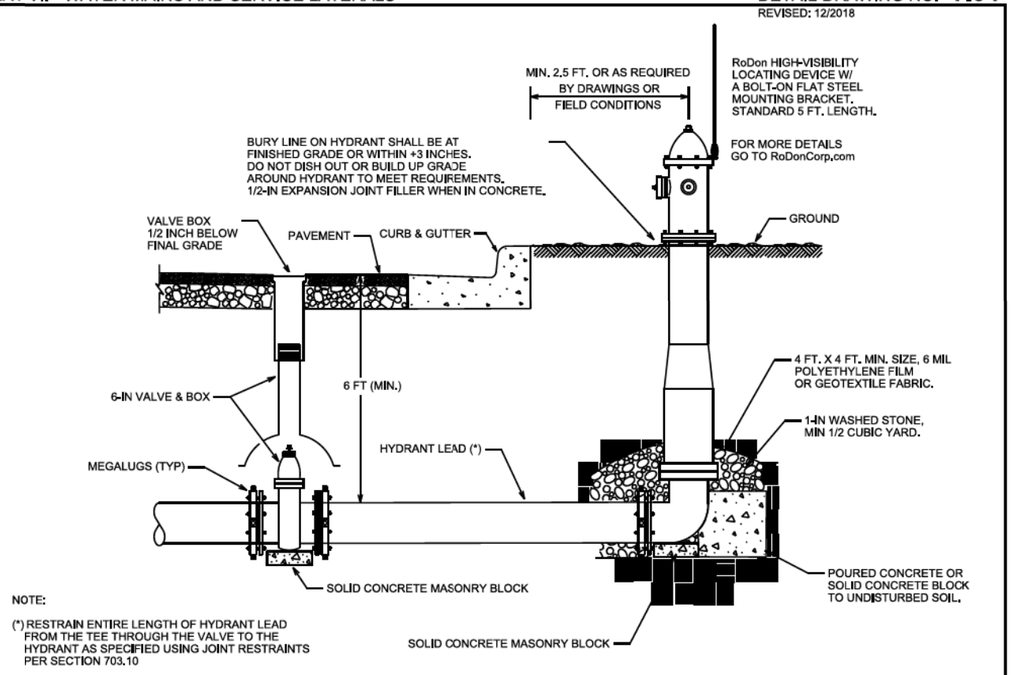
CALL DIGGERS HOTLINE
TOLL FREE
811 OR 1-800-242-8511
FAX-A-LOCATE 1-800-338-3860
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

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

MEMBER ONE CALL SYSTEMS INTERNATIONAL

DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

PART VII - WATER MAINS AND SERVICE LATERALS — DETAIL DRAWING NO. 7.04
REVISED: 12/2018



NOTE:
(*) RESTRAIN ENTIRE LENGTH OF HYDRANT LEAD FROM THE TEE THROUGH THE VALVE TO THE HYDRANT AS SPECIFIED USING JOINT RESTRAINTS PER SECTION 703.10

CITY OF MADISON WATER UTILITY	NOT TO SCALE	TYPICAL HYDRANT INSTALLATION

City of Madison Standard Specifications for Public Works Construction

2

1-01 SPEED LIMIT 35 R2-1

1-02 W6-1

1-03 W6-1

1-04 NO PARKING ANY TIME R7-1LR

1-05 W12-1 MODIFIED

1-06 W12-1 MODIFIED

1-07 SPEED LIMIT 35 R2-1

1-08 COUNTY BB M1-5A

N COTTAGE GROVE ROAD

1-10 NO PARKING ANY TIME R7-1LR

1-11 W12-1 MODIFIED

1-12 NO PARKING ANY TIME R7-1LR

1-13 W6-3

2-01 BIKE LANE R3-17 MODIFIED

1-09 NO PARKING ANY TIME R7-1LR

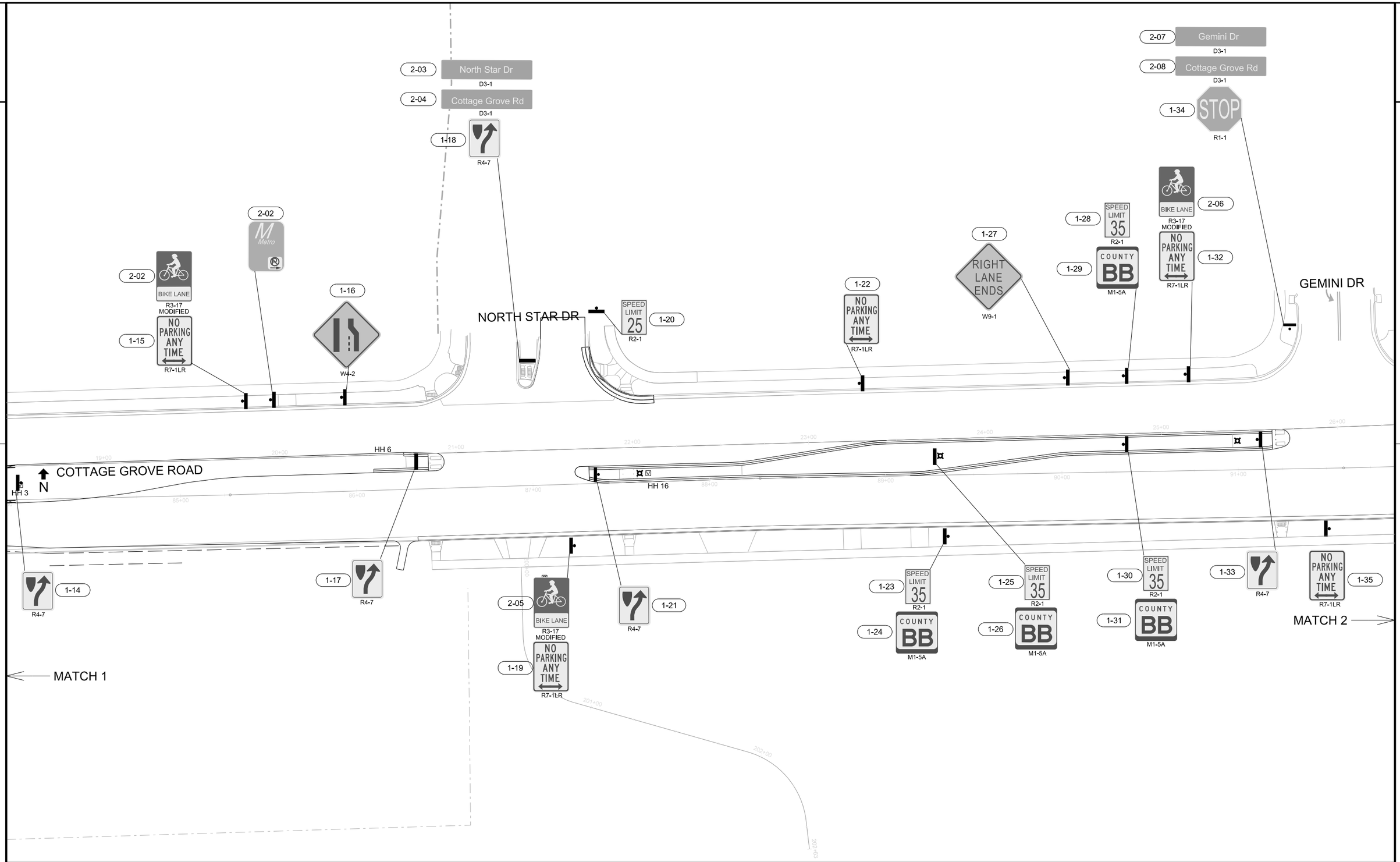
16+00 17+00 18+00

81+00 82+00 83+00

MATCH 1

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	SIGNING - COTTAGE GROVE RD.	SHEET 85	E

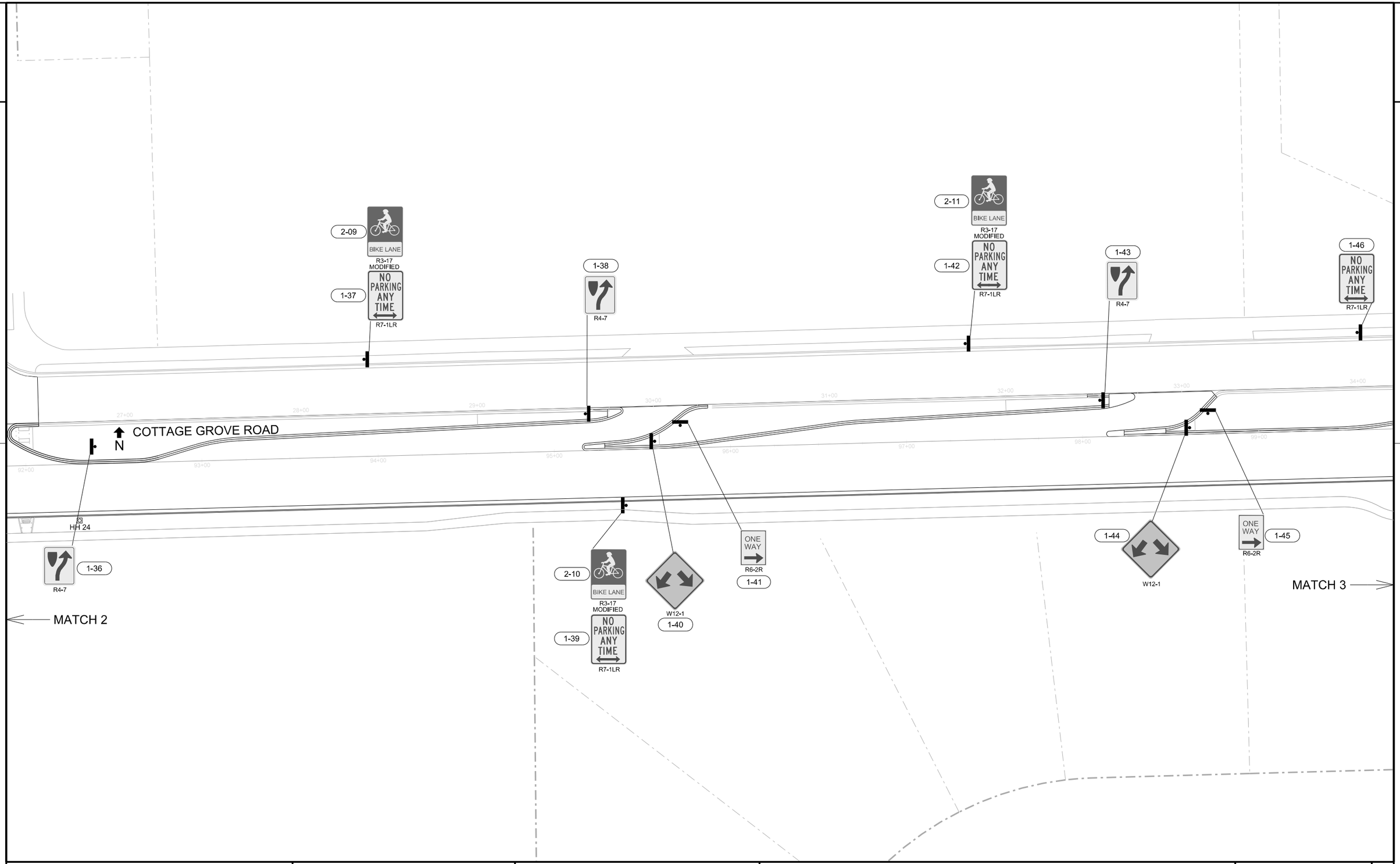
FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



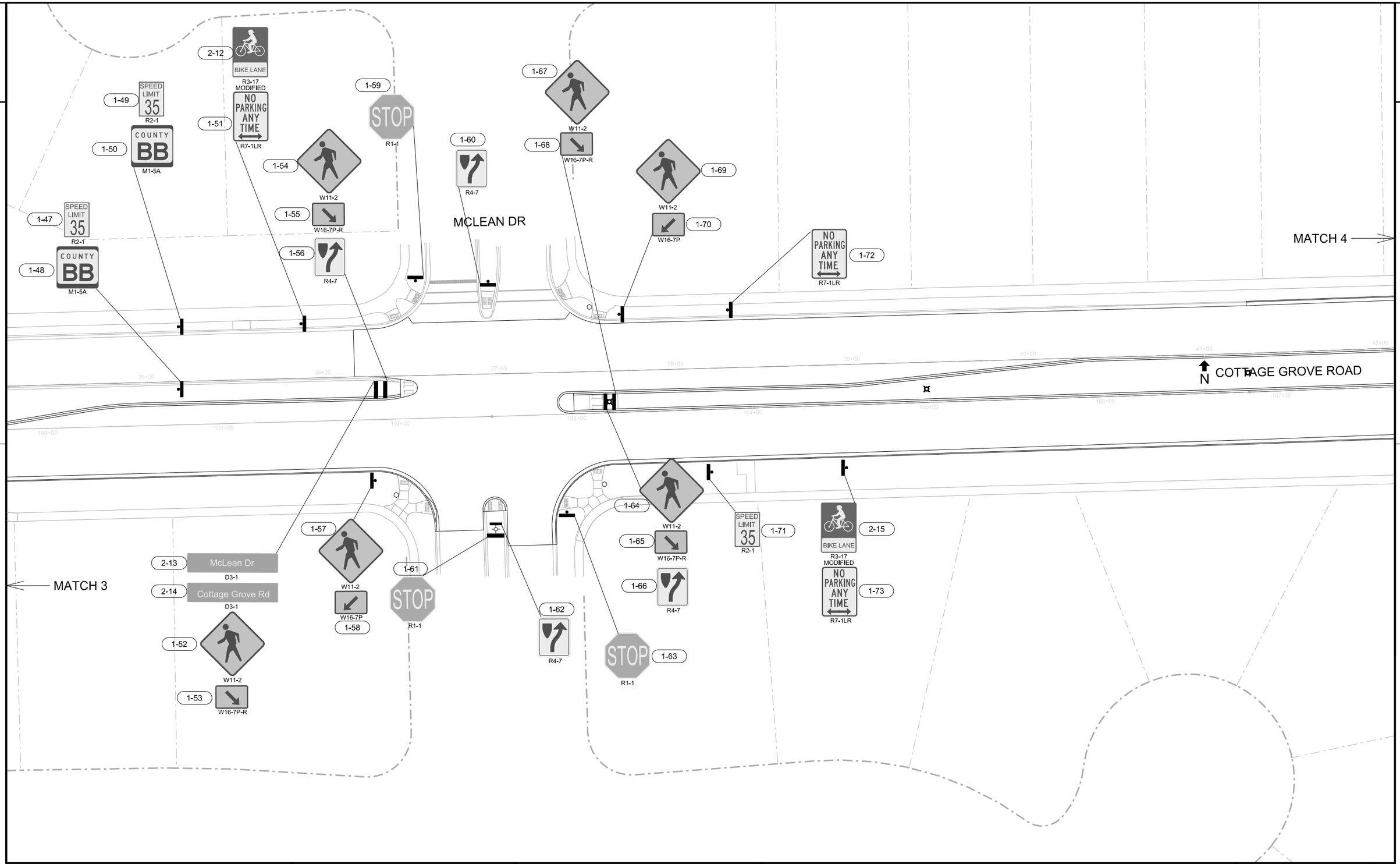
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	SIGNING - COTTAGE GROVE RD.	SHEET 86	E

2

2



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	SIGNING - COTTAGE GROVE RD.	SHEET 87	E



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	SIGNING - COTTAGE GROVE RD.	SHEET 88	E

2

2

MCCLELLAN DR

2-17 McClellan Dr D3-1

2-18 Cottage Grove Rd D3-1

1-79 STOP R1-1

2-16 BIKE LANE R3-17 MODIFIED

1-74 NO PARKING ANY TIME R7-1LR

1-75 SPEED LIMIT 35 R2-1

1-76 SPEED LIMIT 35 R2-1

1-83 NO PARKING ANY TIME R7-1LR

1-89 SPEED LIMIT 35 R2-1

1-90 COUNTY BB M1-5A

1-91 SPEED LIMIT 35 R2-1

1-92 COUNTY BB M1-5A

MATCH 4

N

COTTAGE GROVE ROAD

1-77 NO PARKING ANY TIME R7-1LR

1-78 R4-7

1-81 R4-7

1-80 STOP R1-1

W3-3 1-82

1-84 SPEED LIMIT 35 R2-1

1-85 COUNTY BB M1-5A

1-86 SPEED LIMIT 35 R2-1

1-87 COUNTY BB M1-5A

2-19 BIKE LANE R3-17 MODIFIED

1-88 NO PARKING ANY TIME R7-1LR

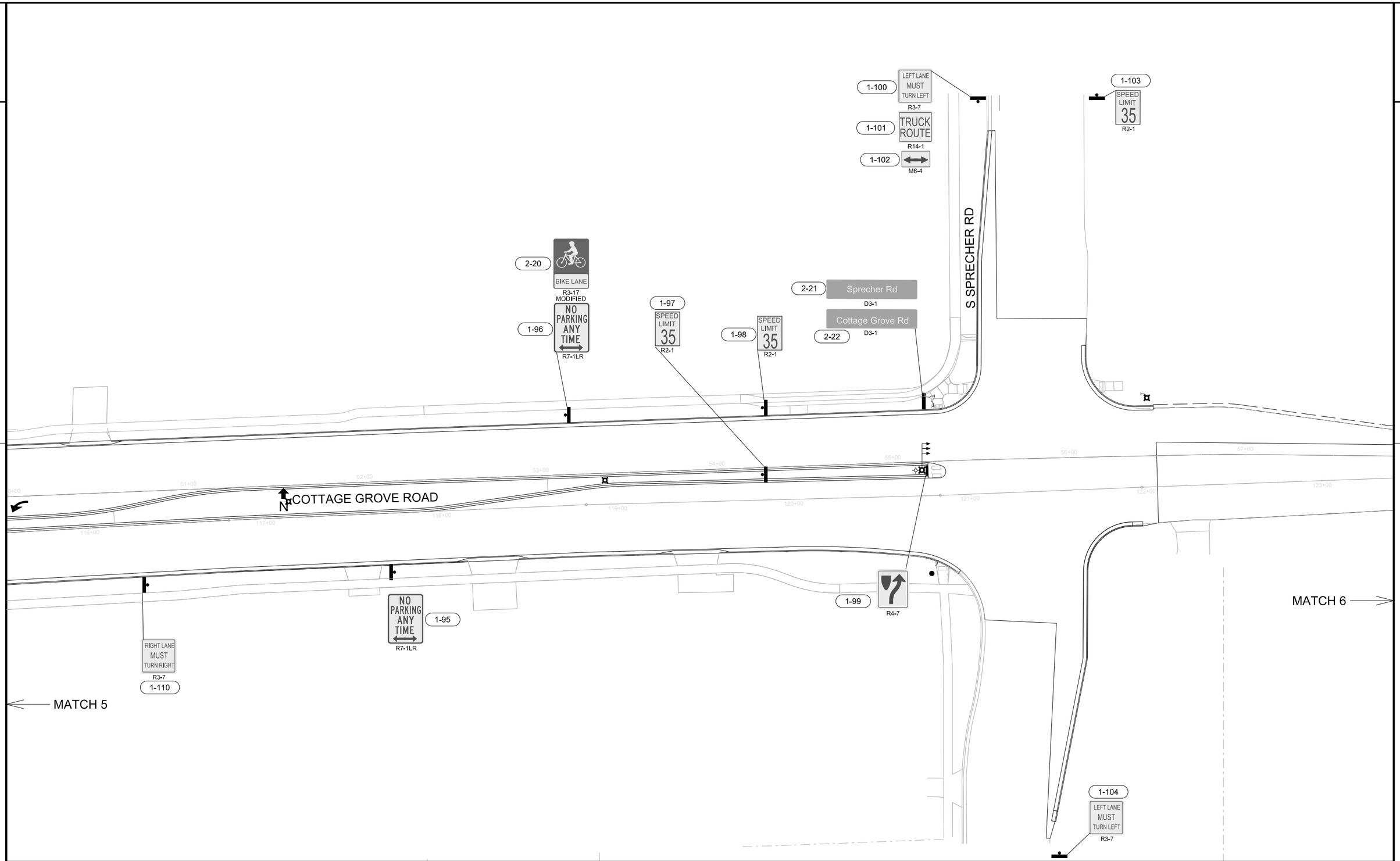
1-93 R4-7

1-94 R4-7

MATCH 5

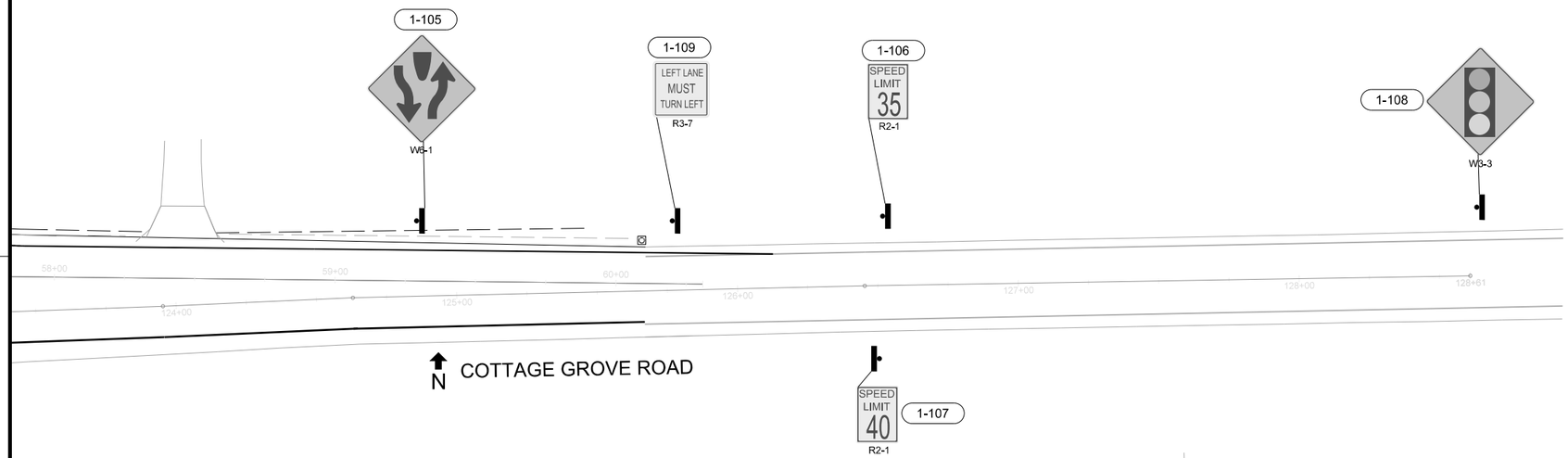
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	SIGNING - COTTAGE GROVE RD.	SHEET 89	E

2



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	SIGNING - COTTAGE GROVE RD.	SHEET 90	E

2



MATCH 6

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	SIGNING - COTTAGE GROVE RD.	SHEET 91	E

2

2

SCALE: 1" = 30'

0710-112-1903-9
JUPITER CROSSING LLC
834 Jupiter Dr

0710-112-1910-4
SHIELDS PROPERTIES LLC
842 Jupiter Dr

STA 15+80 "WB", 28.4' L
SL9460 - LC1 - A1 - TYPE II

STA 17+36.5 "WB", 32.4' L
SL9461 - LC1 - 2M - TYPE II

SL 9460

HH 1

SL 9461

HH 2

STA 18+92.3 "WB", 9.3' R
SL8604 - LC1 - 2M/1A - TYPE II

PROJECT BEGIN STA 81+00

MATCHLINE STA 85+07

COTTAGE GROVE RD

N

HH 3

L1

428.19'
N88°42'35"E

81+00
81+00.00
POB
16+00
16+00.00
POB
17+00
18+00
18+25.00
PI
82+00
83+00
84+00
85+00

0710-113-0901-2
HOVDE REALTY INC
101
5781 Cottage Grove Rd

0710-113-0905-4
HOVDE REALTY INC
101
5817 Cottage Grove Rd

0710-113-0906-2
SCHOENSTATT SISTERS OF MARY
5825 Cottage Grove Rd

LEGEND

- EXISTING TYPE G BASE
- EXISTING LB-3 BASE
- EXISTING LB-8 BASE
- EXISTING TYPE I PULLBOX
- EXISTING TYPE III PULLBOX
- EXISTING TYPE M CONTROLLER CABINET

LEGEND

- INSTALL TYPE G BASE
- INSTALL LB-3 BASE
- INSTALL LB-8 BASE
- INSTALL TYPE I PULLBOX
- INSTALL TYPE III PULLBOX
- INSTALL TYPE M CONTROLLER CABINET BASE
- INSTALL TYPE V PULLBOX
- INSTALL 3" PVC CONDUIT (UNLESS NOTED OTHERWISE)
- INSTALL 2" PVC STREET LIGHT CONDUIT

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS ELECTRICAL PLANS	SHEET 92	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

SCALE: 1" = 30'

0710-112-1901-3
VERIDIAN HOMES FBB LLC
858 Jupiter Dr

0710-112-2502-8
MREC VH MADISON INVESTORS LLC
6033 Gemini Dr

NORTH STAR DR

COTTAGE GROVE RD

NORTH STAR DR

HH 10
HH 9
HH 11
HH 13
HH 5
HH 6
HH 4
HH 7
HH 8
HH 12
HH 14
HH 16
HH 17
HH 18
HH 19
HH80
HH86
HH85

TC1 LC1
TS #1
TS #2
TS #3
TS #4
TS #5
TS #6
TS #7
TS #8
TS #9
TS #10
TS #11
TS #12
TS #13
TS #14

(1) 3" PVC
(1) 1 1/4" PVC
(1) 2" PVC
(2) 3" PVC

L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L42 L43 L44 L45 L46

STA 21+41 "WB", 97.2' L
SL8606 - MAINTAIN EXISTING

REMOVE TS #5
REMOVE TS #12
REMOVE TS #11
REMOVE TS #6

STA 20+73 "WB", 4.3' R
SL8605 - LC1 - 1A/1A - TYPE III

STA 22+04 "WB", 14.7' R
SL9462 - LC1 - 3A/3A - TYPE III

STA 89+31.2 "EB", 10.9' L
SL9463 - LC1 - 3A/4M - TYPE I

MATCHLINE STA 85+07

MATCHLINE STA 89+80

300.71'
N88°13'01"E

0710-113-0906-2
SCHOENSTATT SISTERS OF MARY
5825 Cottage Grove Rd

0710-113-0906-2
SCHOENSTATT SISTERS OF MARY
5825 Cottage Grove Rd

0710-113-0908-8
SCHOENSTATT SISTERS OF MARY
5901 Cottage Grove Rd

LEGEND

- INSTALL TYPE G BASE
- INSTALL LB-3 BASE
- INSTALL LB-8 BASE
- INSTALL TYPE I PULLBOX
- INSTALL TYPE III PULLBOX
- INSTALL TYPE M CONTROLLER CABINET BASE
- INSTALL TYPE V PULLBOX
- INSTALL 3" PVC CONDUIT (UNLESS NOTED OTHERWISE)
- INSTALL 2" PVC STREET LIGHT CONDUIT
- EXISTING TYPE G BASE
- EXISTING LB-3 BASE
- EXISTING LB-8 BASE
- EXISTING TYPE I PULLBOX
- EXISTING TYPE III PULLBOX
- EXISTING TYPE M CONTROLLER CABINET BASE

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS ELECTRICAL PLANS	SHEET 93	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

0710-112-2502-8
MREC VH MADISON INVESTORS LLC
6033 Gemini Dr

SCALE: 1" = 30'

GEMINI DR

STA 25+76.7 "WB", OFF 59.1' L
SL8608 - LC1 - 4M - TYPE I

0710-111-2618-5
1200 SOUTH LLC
6034 Gemini Dr

0710-111-2616-9
1200 SOUTH LLC
6010 Cottage Grove Rd

HH 20

HH 26

L20

STA 25+43 "WB", 5.4' R
SL9464 - LC1 - 4M/3A - TYPE III

STA 26+68 "WB", 6' R
SL8609 - LC1 - 3A/4M - TYPE III

STA 28+57.5 "WB", 3.5' R
SL8610 - LC1 - 4M/3A - TYPE II

MATCHLINE STA 89+80

MATCHLINE STA 94+52

HH 23

HH 25

COTTAGE GROVE ROAD

N

HH 22

330.86'
S88°58'29"E

HH 21

HH 24

0710-113-0908-8
SCHOENSTATT SISTERS OF MARY
5901 Cottage Grove Rd

LEGEND

- INSTALL TYPE G BASE
- INSTALL LB-3 BASE
- INSTALL LB-8 BASE
- INSTALL TYPE I PULLBOX
- INSTALL TYPE III PULLBOX
- INSTALL TYPE M CONTROLLER CABINET BASE
- INSTALL TYPE V PULLBOX
- INSTALL 3" PVC CONDUIT (UNLESS NOTED OTHERWISE)
- INSTALL 2" PVC STREET LIGHT CONDUIT
- EXISTING TYPE G BASE
- EXISTING LB-3 BASE
- EXISTING LB-8 BASE
- EXISTING TYPE I PULLBOX
- EXISTING TYPE III PULLBOX
- EXISTING TYPE M CONTROLLER CABINET BASE

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS ELECTRICAL PLANS	SHEET 94	E

2

0710-111-2616-9
1200 SOUTH LLC
6010 Cottage Grove Rd

MATCHLINE STA 94+52

STA 30+42.9 "WB", 8.7' R
SL8611 - LC2 - 1A/2M - TYPE II

STA 32+30.3 "WB", 8.7' R
SL8612 - LC2 - 2M/1A - TYPE II

HH 27

HH 28

MATCHLINE STA 99+25

95+00 96+00 97+00 98+00 99+00

1092.58'
N88°28'07"E

AT&T

AT&T

MG&E

0710-114-0106-6
SEMOVSKI, NEDZMI
& NERMIN SEMOVSKI
6102 Fredericksburg Ln

0710-114-0105-8
HILL, KATHRYN D
& GREGORY J CIESLEWICZ
6106 Fredericksburg Ln

0710-114-0102-4
DICKRELL, ALAN & JOAN
6110 Fredericksburg Ln

SCALE: 1" = 30'

LEGEND

- EXISTING TYPE G BASE
- EXISTING LB-3 BASE
- EXISTING LB-8 BASE
- EXISTING TYPE I PULLBOX
- EXISTING TYPE III PULLBOX
- EXISTING TYPE M CONTROLLER CABINET

LEGEND

- INSTALL TYPE G BASE
- INSTALL LB-3 BASE
- INSTALL LB-8 BASE
- INSTALL TYPE I PULLBOX
- INSTALL TYPE III PULLBOX
- INSTALL TYPE M CONTROLLER CABINET BASE
- INSTALL TYPE V PULLBOX
- INSTALL 3" PVC CONDUIT (UNLESS NOTED OTHERWISE)
- INSTALL 2" PVC STREET LIGHT CONDUIT

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS ELECTRICAL PLANS	SHEET 95	E

2

2

0710-111-2613-5
MREC VH MADISON LLC
6107 Kilpatrick Ln

MCLEAN DR

STA 36+94.2 "WB", 94.5' L
SL8615 - MAINTAIN EXISTING

0710-111-0306-8
MREC VH MADISON LLC
6201 Kilpatrick Ln

0710-111-2615-1
GRANDVIEW COMMONS
HOMEOWNERS ASSN INC
6045 Big Dipper Dr

LC2
TC2
HH 36
HH 37
HH 39
TS#30
HH 44
TS #31
HH 32
RRRB
STA 36+35.6 "WB", 7.4' R
SL8614 - LC2 - 1A/1A - TYPE III
L51
L52
STA 37+62 "WB", 17.3' R (LB-8)
SL9465 - LC2 - 3A/3A - TYPE III
L54
L53
HH 43
HH 41
STA 34+10.9 "WB", 11' R
SL8613 - LC2 - 1A/2M - TYPE II
MATCHLINE STA 99+25
MATCHLINE STA 103+97
HH 31
HH 34
HH 30
L59
L60
L61
L47
L48
L49
L50
RRRB
HH 29
L57
L58
HH 33
TS #30
TS #29
HH 42
TS#29
HH 35
HH 38
HH 40

0710-114-0101-6
FRANK, LARRY D
& SANDRA J FRANK
6118 Fredericksburg Ln

0710-114-0103-2
FREMGEN, MARK R
DIANE M FREMGEN
6122 Fredericksburg Ln

0710-114-0104-0
VEITH-TESSMANN, DEBRA SUE
6126 Fredericksburg Ln

0710-114-0201-4
KAPKOE, SHERAB T
NAMGANG DOLMA
6202 Fredericksburg Ln

SCALE: 1" = 30'

LEGEND

- EXISTING TYPE G BASE
- EXISTING LB-3 BASE
- EXISTING LB-8 BASE
- EXISTING TYPE I PULLBOX
- EXISTING TYPE III PULLBOX
- EXISTING TYPE M CONTROLLER CABINET

LEGEND

- INSTALL TYPE G BASE
- INSTALL LB-3 BASE
- INSTALL LB-8 BASE
- INSTALL TYPE I PULLBOX
- INSTALL TYPE III PULLBOX
- INSTALL TYPE M CONTROLLER CABINET BASE
- INSTALL TYPE V PULLBOX
- INSTALL 3" PVC CONDUIT (UNLESS NOTED OTHERWISE)
- INSTALL 2" PVC STREET LIGHT CONDUIT

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS ELECTRICAL PLANS	SHEET 96	E

2

0710-111-0308-4
KEMPFER, BENJAMIN R
TARA L KEMPFER
6205 Kilpatrick Ln

0710-111-0309-2
VEGA, NICOLAS & TANYA A
& IMELDA VEGA
6207 Kilpatrick Ln

0710-111-0310-9
FIX, DANIEL L
LEAH J FIX
6209 Kilpatrick Ln

0710-111-0311-7
FAIT, PATRICK
CHELSEA FAIT
6211 Kilpatrick Ln

0710-111-0312-5
MACKLEM, TODD
SARAH MACKLEM
6213 Kilpatrick Ln

0710-111-0313-3
DICKRELL, ALAN L
JOAN H DICKRELL
6215 Kilpatrick Ln

2

HH 45

HH 46

L55

L56

STA 39+42 "WB", 15.1' R
SL9466 - LC2 - 4M/3A - TYPE II

STA 41+24.3 "WB", 11' R
SL9467 - LC2 - 3A/4M - TYPE II

HH 47

MATCHLINE STA 103+97

MATCHLINE STA 108+70

N

N

39+00 40+00 41+00 42+00 43+00 105+00 106+00 107+00 108+00

N88°09'15"E

0710-114-0202-2
ANDERSON, GARY L
& NICHOLE R WILTZIUS
6206 Fredericksburg Ln

0710-114-0203-0
REPKA, RAQUEL A
BRIAN J BECKER
1 Fredericksburg Ct

0710-114-0204-8
FINGER, THOMAS J
& PAMELA A FINGER
5 Fredericksburg Ct

0710-114-0205-6
SEVERSIN, MICHAEL & LISA
9 Fredericksburg Ct

0710-114-1702-1
CHEN, YONG
& AMANDA LYNN CHEN
6221 Cottage Grove Rd

LEGEND

- INSTALL TYPE G BASE
- INSTALL LB-3 BASE
- INSTALL LB-8 BASE
- INSTALL TYPE I PULLBOX
- INSTALL TYPE III PULLBOX
- INSTALL TYPE M CONTROLLER CABINET BASE
- INSTALL TYPE V PULLBOX
- INSTALL 3" PVC CONDUIT (UNLESS NOTED OTHERWISE)
- INSTALL 2" PVC STREET LIGHT CONDUIT
- EXISTING TYPE G BASE
- EXISTING LB-3 BASE
- EXISTING LB-8 BASE
- EXISTING TYPE I PULLBOX
- EXISTING TYPE III PULLBOX
- EXISTING TYPE M CONTROLLER CABINET BASE

SCALE: 1" = 30'

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS ELECTRICAL PLANS	SHEET 97	E

2

0710-111-0301-8
BIRCHWOOD RIDGE CDMS ASSN
CONDO MGMT ASSOC LLC
6227 Kilpatrick Ln

0710-111-0201-0
BIRCHWOOD RIDGE CDMS ASSN
CONDO MGMT ASSOC LLC
6319 Kilpatrick Ln

HH 50

HH 53

STA 44+74 "WB", 5.5' R
SL9469 - LC2 - 3A/3A - TYPE II

STA 43+14 "WB", 8.1' R
SL9468 - LC2 - 4M/3A - TYPE II

STA 46+06.2 "WB", 16' R
SL9470 - LC2 - 3A/3A - TYPE II

MATCHLINE STA 108+70

MATCHLINE STA 113+43

HH 49

HH 52

599.59'
N87°55'27"E

HH 48

HH 51

0710-114-1801-1
MAYWICK ESTATES CDM ASSN
ATTN TED FRANK
1001 Severson Dr #CDM

0710-114-1702-1
CHEN, YONG
& AMANDA LYNN CHEN
6221 Cottage Grove Rd

0710-114-1701-3
FIELDSTONE ESTATES LLC
1002 Severson Dr

xxxx xxxx xxxx

SCALE: 1" = 30'

LEGEND

- INSTALL TYPE G BASE
- INSTALL LB-3 BASE
- INSTALL LB-8 BASE
- INSTALL TYPE I PULLBOX
- INSTALL TYPE III PULLBOX
- INSTALL TYPE M CONTROLLER CABINET BASE
- INSTALL TYPE V PULLBOX
- INSTALL 3" PVC CONDUIT (UNLESS NOTED OTHERWISE)
- INSTALL 2" PVC STREET LIGHT CONDUIT
- EXISTING TYPE G BASE
- EXISTING LB-3 BASE
- EXISTING LB-8 BASE
- EXISTING TYPE I PULLBOX
- EXISTING TYPE III PULLBOX
- EXISTING TYPE M CONTROLLER CABINET BASE

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS ELECTRICAL PLANS	SHEET 98	E

2

2

0710-111-0201-0
BIRCHWOOD RIDGE CDMS ASSN
CONDO MGMT ASSOC LLC
6319 Kilpatrick Ln

AT&T

STA 48+47 "WB", 10.8' R
SL9471 - LC2 - 3A/4M - TYPE II

STA 49+76.2 "WB", 16.6' R
SL9472 - LC2 - 4M/3A - TYPE II

STA 51+56.2 "WB", 9.1' R
SL9473 - LC2 - 3A/4M - TYPE II

MATCHLINE STA 113+43

MATCHLINE STA 118+18

COTTAGE GROVE ROAD

HH 54

HH 55

N87°47'14"E 397.68

ONLY

MG&E

AT&T

0710-114-8040-4
HOSKING, BRIAN C
3453 COUNTY HIGHWAY BB

0710-114-8030-6
GEHRKE, RENO K
LYNNE M GEHRKE
3449 COUNTY HIGHWAY B

SCALE: 1" = 30'

LEGEND

- INSTALL TYPE G BASE
- INSTALL LB-3 BASE
- INSTALL LB-8 BASE
- INSTALL TYPE I PULLBOX
- INSTALL TYPE III PULLBOX
- INSTALL TYPE M CONTROLLER CABINET BASE
- INSTALL TYPE V PULLBOX
- INSTALL 3" PVC CONDUIT (UNLESS NOTED OTHERWISE)
- INSTALL 2" PVC STREET LIGHT CONDUIT
- EXISTING TYPE G BASE
- EXISTING LB-3 BASE
- EXISTING LB-8 BASE
- EXISTING TYPE I PULLBOX
- EXISTING TYPE III PULLBOX
- EXISTING TYPE M CONTROLLER CABINET BASE

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS ELECTRICAL PLANS	SHEET 99	E

FILE NAME : $$...designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

SCALE: 1" = 30'

0710-111-0205-2
STAGE TWO DEVELOPMENT LLC
6420 Cottage Grove Rd

0710-122-9152-0
CGRD LLC
3420 COUNTY HIGHWAY BB

MATCHLINE B

MATCHLINE STA 118+18

MATCHLINE STA 122+90

MATCHLINE A

STA 53+36.2 "WB", 3.9' R
SL9474 - LC2 - 4M/3A - TYPE II

(1) - 2" SCH 40 PVC
(1) - 3" SCH 40 PVS (F.O.)

STA 55+16 "WB", 4.8' R
SL9475 - LC2 - 3A/3A - TYPE III

STA 56+45 "WB", 32.9' L
SL9476 - LC2 - 3A - TYPE III

SL 9476

REMOVE TS #16

REMOVE TS #18

REMOVE TS #20

REMOVE TS #22

REMOVE TS #25

200.94'
N88°29'45"E

114.44'
N87°41'36"E

HH 56 HH 57 HH 58 HH 59 HH 60 HH 61 HH 62 HH 63 HH 64 HH 65 HH 66 HH 69 HH 70 HH 71 HH 72 HH 78

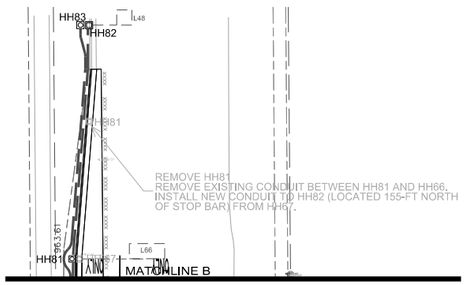
TS #15 TS #16 TS #17 TS #18 TS #20 TS #21 TS #22 TS #23 TS #25 TS #26 TS #27 TS #28 TS #31

TC3 LC3 AT&T CHARTER MG&E

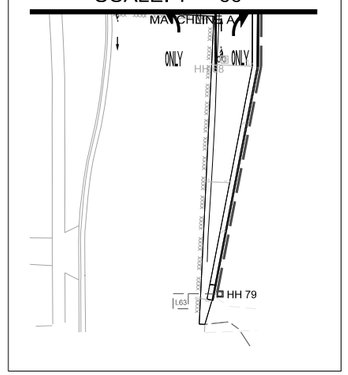
0710-114-8020-8
NEUHENGEN, RICHARD

0710-114-1808-7
PITTZ, BRADY MICHAEL
JACQUELINE NICOLE PITTZ

SB SPRECHER APPROACH
SCALE: 1" = 60'



NB SPRECHER APPROACH
SCALE: 1" = 60'



LEGEND

- INSTALL TYPE G BASE
- INSTALL LB-3 BASE
- INSTALL LB-8 BASE
- INSTALL TYPE I PULLBOX
- INSTALL TYPE III PULLBOX
- INSTALL TYPE M CONTROLLER CABINET BASE
- INSTALL TYPE V PULLBOX
- INSTALL 3" PVC CONDUIT (UNLESS NOTED OTHERWISE)
- INSTALL 2" PVC STREET LIGHT CONDUIT
- EXISTING TYPE G BASE
- EXISTING LB-3 BASE
- EXISTING LB-8 BASE
- EXISTING TYPE I PULLBOX
- EXISTING TYPE III PULLBOX
- EXISTING TYPE M CONTROLLER CABINET BASE

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS ELECTRICAL PLANS	SHEET 100	E

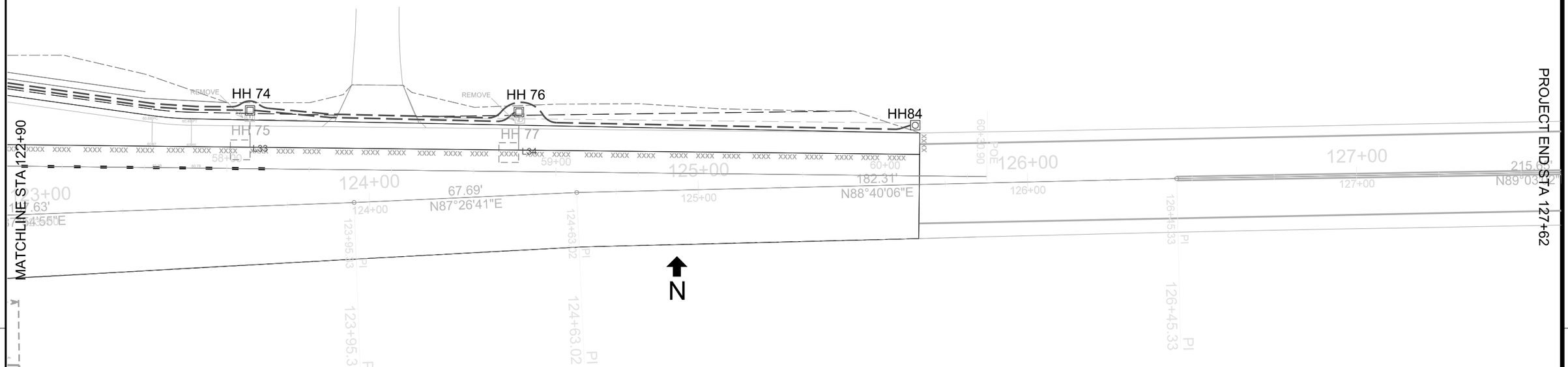
FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

0710-122-9152-0
CGRD LLC
3420 COUNTY HIGHWAY BB

0710-122-9152-0
CGRD LLC
3420 COUNTY HIGHWAY BB



0710-123-0302-1
LOL555 HOLDINGS LLC
1011 S Sprecher Rd

LEGEND

- INSTALL TYPE G BASE
- INSTALL LB-3 BASE
- INSTALL LB-8 BASE
- INSTALL TYPE I PULLBOX
- INSTALL TYPE III PULLBOX
- INSTALL TYPE M CONTROLLER CABINET BASE
- INSTALL TYPE V PULLBOX
- INSTALL 3" PVC CONDUIT (UNLESS NOTED OTHERWISE)
- INSTALL 2" PVC STREET LIGHT CONDUIT
- EXISTING TYPE G BASE
- EXISTING LB-3 BASE
- EXISTING LB-8 BASE
- EXISTING TYPE I PULLBOX
- EXISTING TYPE III PULLBOX
- EXISTING TYPE M CONTROLLER CABINET BASE

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS ELECTRICAL PLANS	SHEET 101	E

2

2

NORTH STAR DR

0710-112-1901-3
VERIDIAN HOMES FBB LLC
858 Jupiter Dr

0710-112-2502-8
MREC VH MADISON INVESTORS LLC
6033 Gemini Dr

0710-113-0906-2
SCHOENSTATT SISTERS OF MARY
5825 Cottage Grove Rd

MATCHLINE STA 85+07

MATCHLINE STA 89+80

TC1 LC1

HH 10

HH 9

HH 11

HH 13

HH 5

HH 6

HH 4

HH 7

HH 8

HH 12

HH 16

HH 17

HH 14

HH 18

HH 19

HH80

HH86

HH85

TS #1

TS #2

TS #3

TS #4

TS #5

TS #6

TS #7

TS #8

TS #9

TS #10

TS #11

TS #12

TS #13

TS #14

REMOVE TS #5

REMOVE TS #12

REMOVE TS #11

REMOVE TS #6

STA 21+41 "WB", 97.2' L
SL8606 - MAINTAIN EXISTING

STA 20+73 "WB", 4.3' R
SL8605 - LC1 - 1A/1A - TYPE III

STA 22+04 "WB", 14.7' R
SL9462 - LC1 - 3A/3A - TYPE III

STA 89+31.2 "EB", 10.9' L
SL9463 - LC1 - 3A/4M - TYPE I

300.71'
S88°13'01"E

L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L42 L43 L44 L45 L46

SCALE: 1" = 30'

SIGNAL OPERATION NOTES

PHASE 2: EB COTTAGE GROVE ROAD
PHASE 4: NB PRIVE DRIVE & SB NORTH STAR DR.
PHASE 5: EBLT COTTAGE GROVE ROAD
PHASE 6: WB COTTAGE GROVE ROAD

EBLT FLASHING YELLOW ARROW WITH PHASE 6

PED PHASE 4: CROSSING COTTAGE GROVE ROAD (EAST & WEST LEG)
PEDESTRIAN PUSH BUTTONS ON: TS14, SL8605, TS13, TS4, SL9462, TS7
PED PHASE 6: CROSSING NORTH STAR DR.
PHASE RECALLED

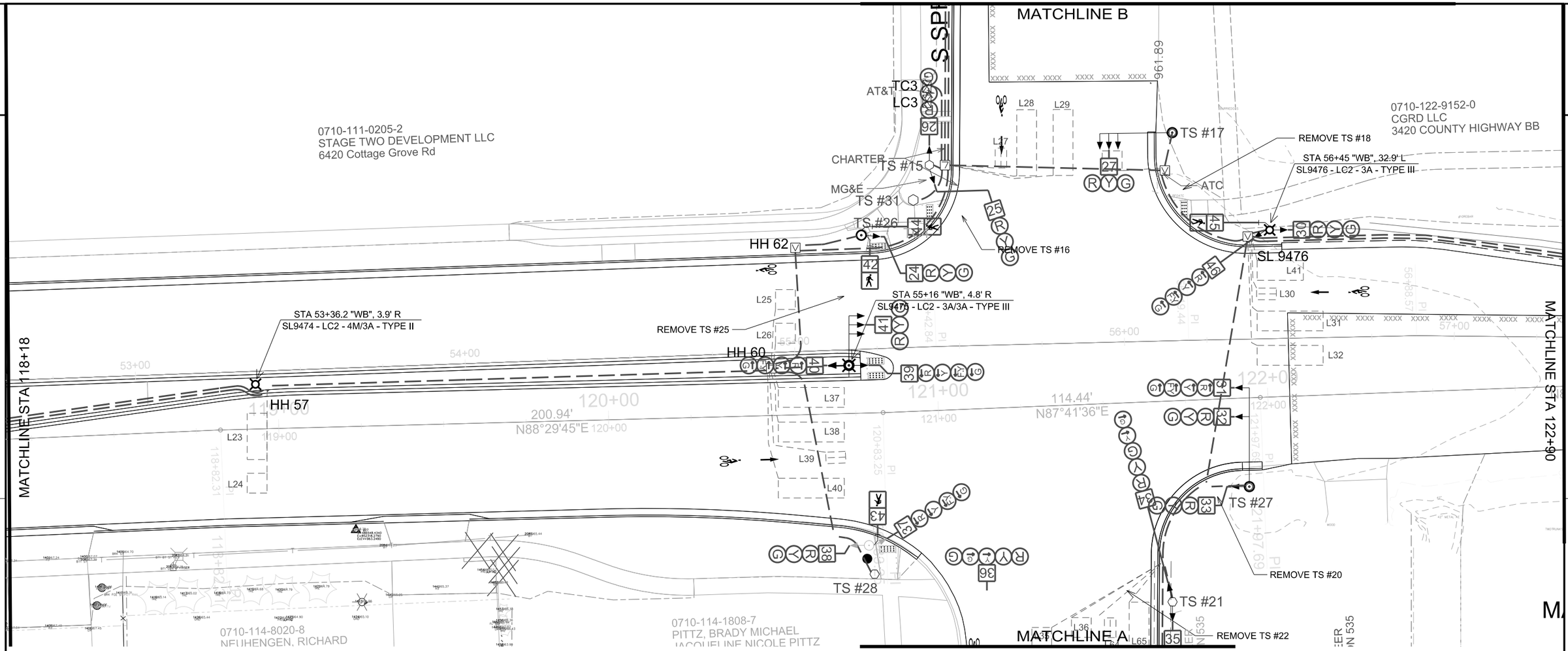
SIGNAL HEAD LEGEND

- (R) 12-INCH RED LED INDICATOR
- (Y) 12-INCH YELLOW LED INDICATOR
- (G) 12-INCH GREEN LED INDICATOR
- (R) 12-INCH SOLID RED LEFT TURN ARROW LED INDICATOR
- (Y) 12-INCH SOLID YELLOW LEFT TURN ARROW LED INDICATOR
- (FY) 12-INCH FLASHING YELLOW LEFT TURN ARROW LED INDICATOR
- (G) 12-INCH SOLID GREEN LEFT TURN ARROW INDICATOR
- 16-INCH PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN
- # SIGNAL HEAD NUMBER

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS TRAFFIC SIGNAL - COTTAGE GROVE RD. & NORTH STAR DR.	SHEET 102	E

FILE NAME : $$....desIgnfIle....$$ PLOT DATE : $$...plottIngdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42



TRAFFIC SIGNAL NOTES

PHASE1: WBLT COTTAGE GROVE ROAD
PHASE 2: EB COTTAGE GROVE ROAD
PHASE 4: SB SPRECHER ROAD
PHASE 5: EBLT COTTAGE GROVE ROAD
PHASE 6: WB COTTAGE GROVE ROAD
PHASE 7: SBLT COTTAGE GROVE ROAD
PHASE 8: NB COTTAGE GROVE ROAD

WB FLASHING YELLOW ARROW WITH PHASE 2
EB FLASHING YELLOW ARROW WITH PHASE 6

PED PHASE 4: CROSSING COTTAGE GROVE ROAD (WEST LEG)
PED BUTTONS ON: TS26, SL9475, TS28
PED PHASE 6: CROSSING SPRECHER ROAD (NORTH LEG)
PED BUTTONS ON: TS15, SL9476

SCALE: 1" = 30'

SIGNAL HEAD LEGEND

- (R) 12-INCH RED LED INDICATOR
- (Y) 12-INCH YELLOW LED INDICATOR
- (G) 12-INCH GREEN LED INDICATOR
- (R) 12-INCH SOLID RED LEFT TURN ARROW LED INDICATOR
- (Y) 12-INCH SOLID YELLOW LEFT TURN ARROW LED INDICATOR
- (FY) 12-INCH FLASHING YELLOW LEFT TURN ARROW LED INDICATOR
- (G) 12-INCH SOLID GREEN LEFT TURN ARROW INDICATOR
- 16-INCH PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN
- # SIGNAL HEAD NUMBER

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS TRAFFIC SIGNAL - COTTAGE GROVE RD. & SPRECHER RD.	SHEET 103	E

2

North Star Dr

Cottage Grove Rd

HH 10

HH 9

HH 11

HH 13

HH 19

HH 5

HH 6

HH 7

HH 16

HH 17

HH86

HH85

TS #10

TS #12

TS #11

TS #6

TC1 LC1

WP1

WP2

WP3

WP4

STA 21+41 "WB", 97.2' L
SL8606 - MAINTAIN EXISTING

STA 20+73 "WB", 4.3' R
SL8605 - LC1 - 1A/1A - TYPE III

STA 22+04 "WB", 14.7' R
SL9462 - LC1 - 3A/3A - TYPE III

STA 89+31.2 "EB", 10.9' L
SL9463 - LC1 - 3A/4M - TYPE I

ATTACH 20-FT OF EXTRA CABLE AND WIRE FROM SL8605 AND TEMPORARY SIGNAL TO THE NORTH FOR FUTURE USE.

MATCHLINE STA 85+07

MATCHLINE STA 89+80

(1) 3" PVC

(1) 2" PVC

(1) 1 1/4" PVC

(2) 3" PVC

4" CONDUIT AT&T

6" PLASTIC GAS MAIN

SCALE: 1" = 30'

0710-113-0906-2
SCHOENSTATT SISTERS OF MARY
5825 Cottage Grove Rd

TEMPORARY SIGNAL NOTES

1. PHASE 1 SHALL USE EXISTING SIGNAL HEADS AND PEDESTRIAN SIGNAL HEADS.
2. WOOD POLES AND OVERHEAD CABLES ARE TO BE INSTALLED FOR PREPARATION FOR UPCOMING TRAFFIC CONTROL PHASES.

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS TEMP SIGNAL PHASE 1 - NORTH STAR DRIVE	SHEET 104	E

FILE NAME : $$...designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

MATCHLINE B

Sprecher Rd

TEMP SIGNAL ON STAND

TC3

TEMP POLE FOR PEDESTRIAN PUSH BUTTON

TS #25 AND HH63 TO BE REMOVED DURING PHASE 1A.

0710-122-9152-0
CGRD LLC
3420 COUNTY HIGHWAY BB

WP10

WP5

WP9

TEMP SIGNAL ON STAND

6" PLASTIC GAS MAIN

MATCHLINE STA 118+18

MATCHLINE STA 122+90

Cottage Grove Rd

6" PLASTIC GAS MAIN

AT&T

WP8

WP7

TEMP SIGNAL ON STAND

TEMP SIGNAL ON STAND

WP6

AT&T

0710-114-8020-8
NEUHENGEN, RICHARD

0710-114-1808-7
PITTZ, BRADY MICHAEL
JACQUELINE NICOLE PITTZ

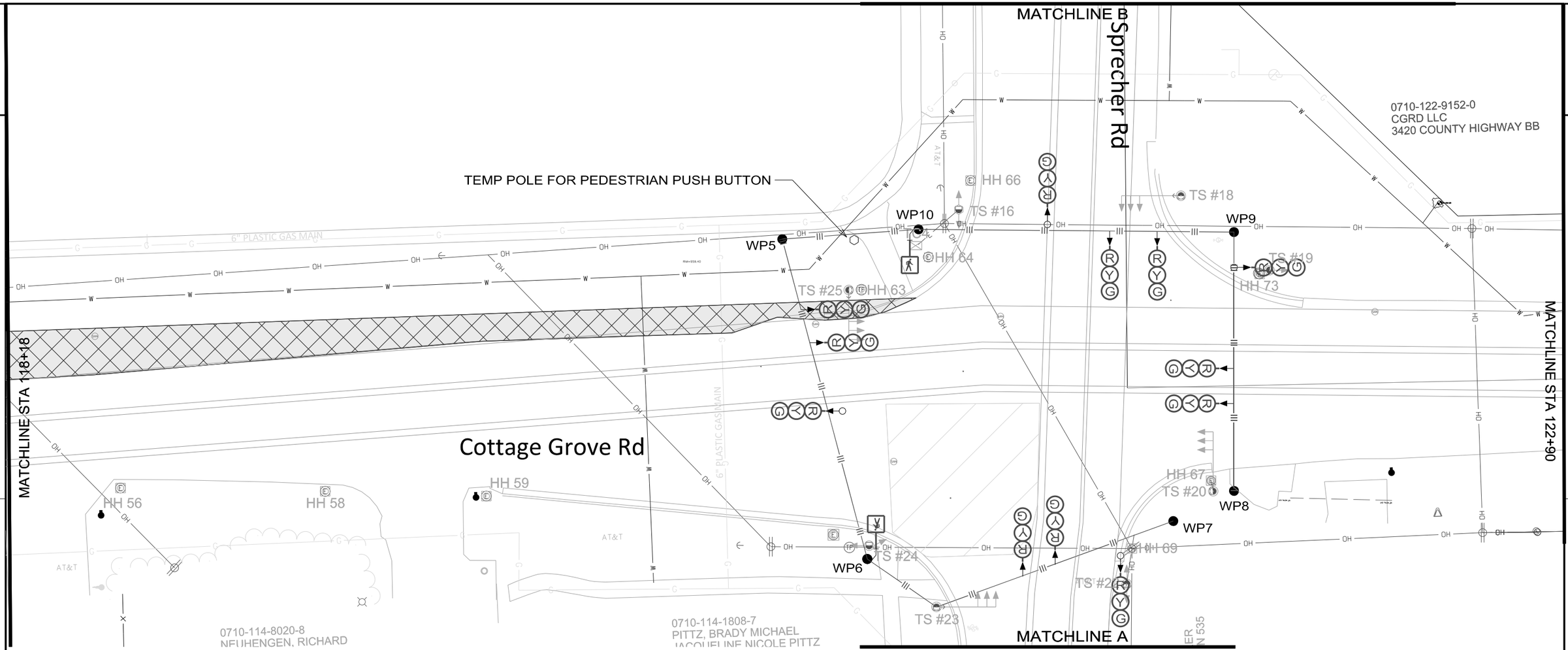
MATCHLINE A

SCALE: 1" = 30'

TEMPORARY SIGNAL NOTES

1. INSTALL WOOD POLES #5 THROUGH #10 AND INSTALL OVERHEAD CABLES AS SHOWN.
2. INSTALL SIGNAL HEADS FROM CABLES AS SHOWN ON ON PLAN.
3. PROVIDE MOVABLE SIGNALS MOUNTED TO POLES.
4. SIGNALHEADS FOR OTHER PHASES SHALL BE BAGGED.
5. PROVIDE TEMPORARY POLE FOR PEDESTRIAN PUSH BUTTON ON NORTHWEST CORNER AS SHOWN.
6. PROVIDE PEDESTRIAN SIGNAL ON WP6 AND WP10 AS SHOWN.

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS TEMP SIGNAL PHASE 1A - SPRECHER ROAD	SHEET 105	E



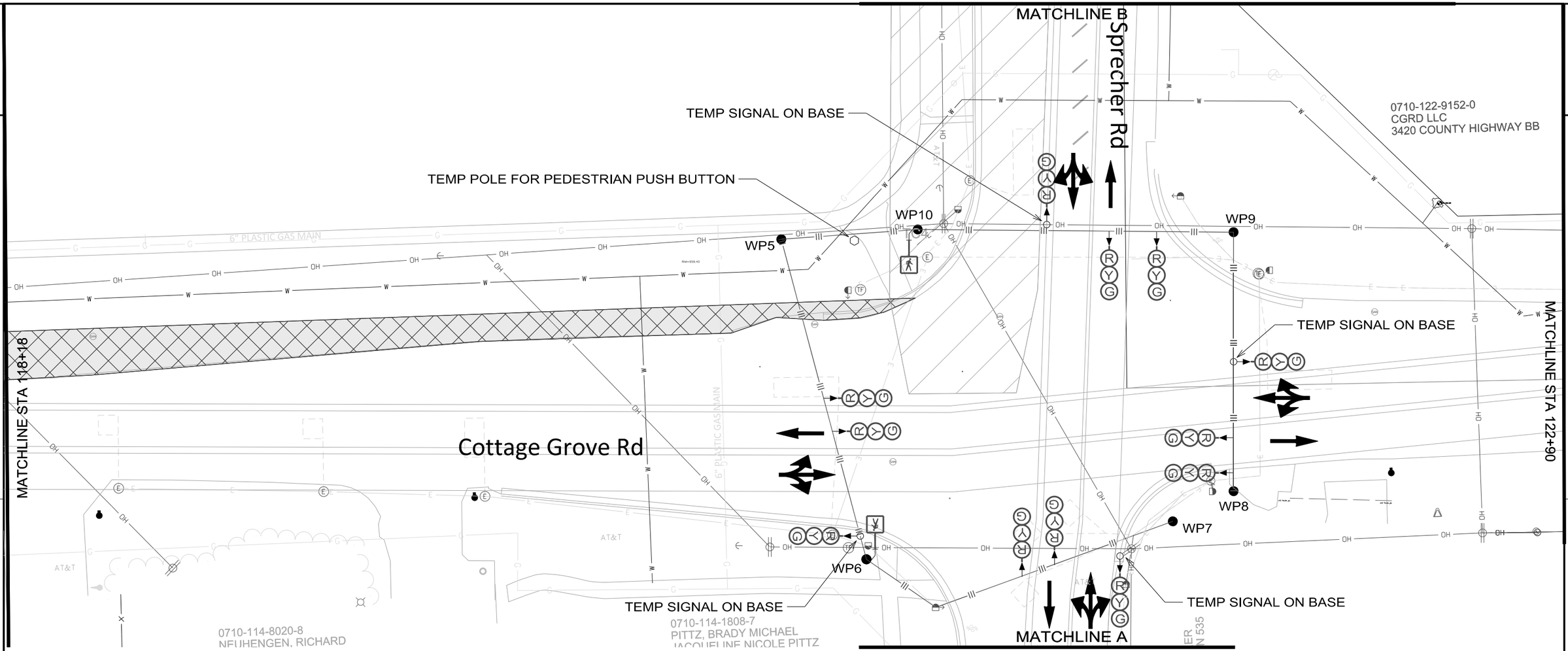
SCALE: 1" = 30'

TEMPORARY SIGNAL NOTES

1. SIGNALHEADS FOR OTHER PHASES SHALL BE BAGGED.
2. CONFORM TO MUTCD SIGNAL PLACEMENT REQUIREMENTS DURING TRAFFIC SHIFTS.
3. PROVIDE TEMPORARY POLE FOR PEDESTRIAN PUSH BUTTON ON NORTHWEST CORNER AS SHOWN.
4. PROVIDE PEDESTRIAN SIGNALS ON WP6 AND WP10 AS SHOWN.

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS TEMP SIGNAL PHASE 1B - SPRECHER ROAD	SHEET 106	E

2



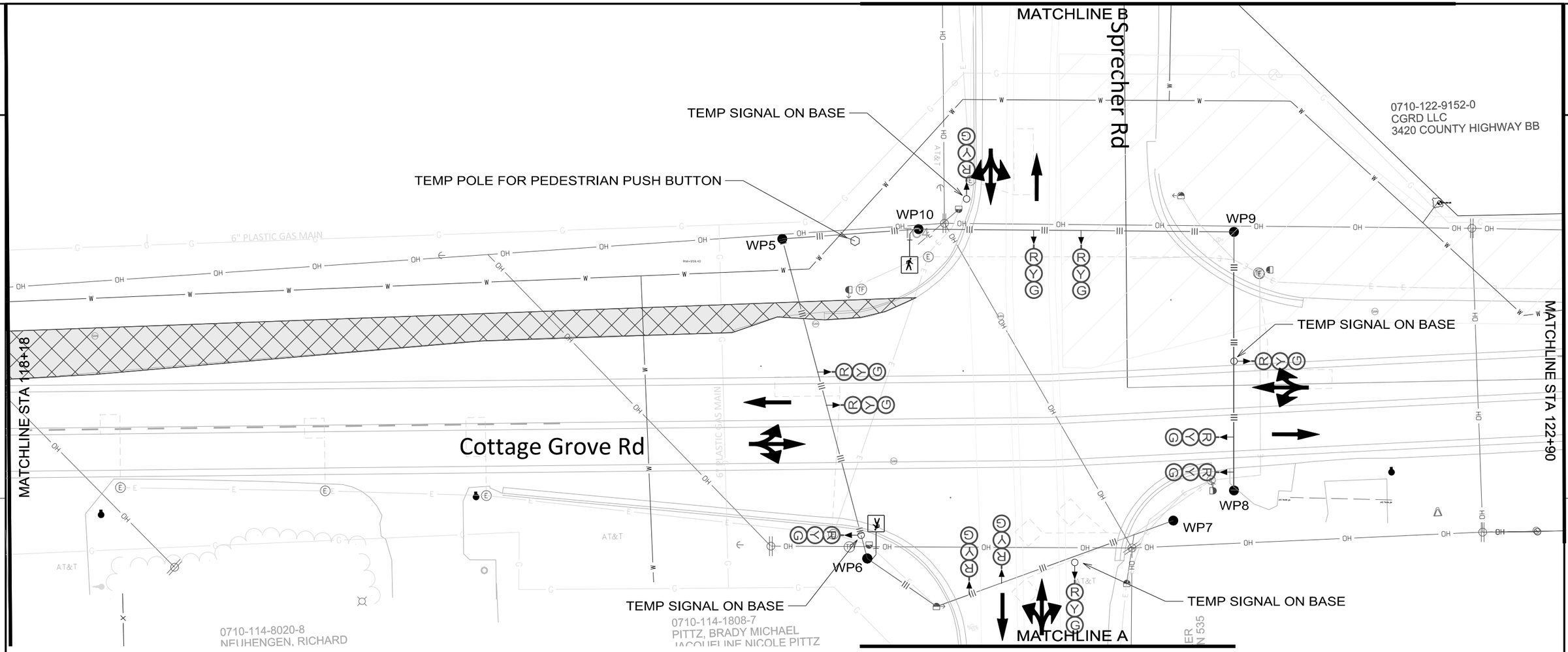
SCALE: 1" = 30'

TEMPORARY SIGNAL NOTES

1. SIGNALHEADS FOR OTHER PHASES SHALL BE BAGGED.
2. CONFORM TO MUTCD SIGNAL PLACEMENT REQUIREMENTS DURING TRAFFIC SHIFTS.
3. PROVIDE TEMPORARY POLE FOR PEDESTRIAN PUSH BUTTON ON NORTHWEST CORNER AS SHOWN.
4. PROVIDE PEDESTRIAN SIGNAL HEADS ON WP6 AN WP10

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS TEMP SIGNAL PHASE 1C - SPRECHER ROAD	SHEET 107	E

2



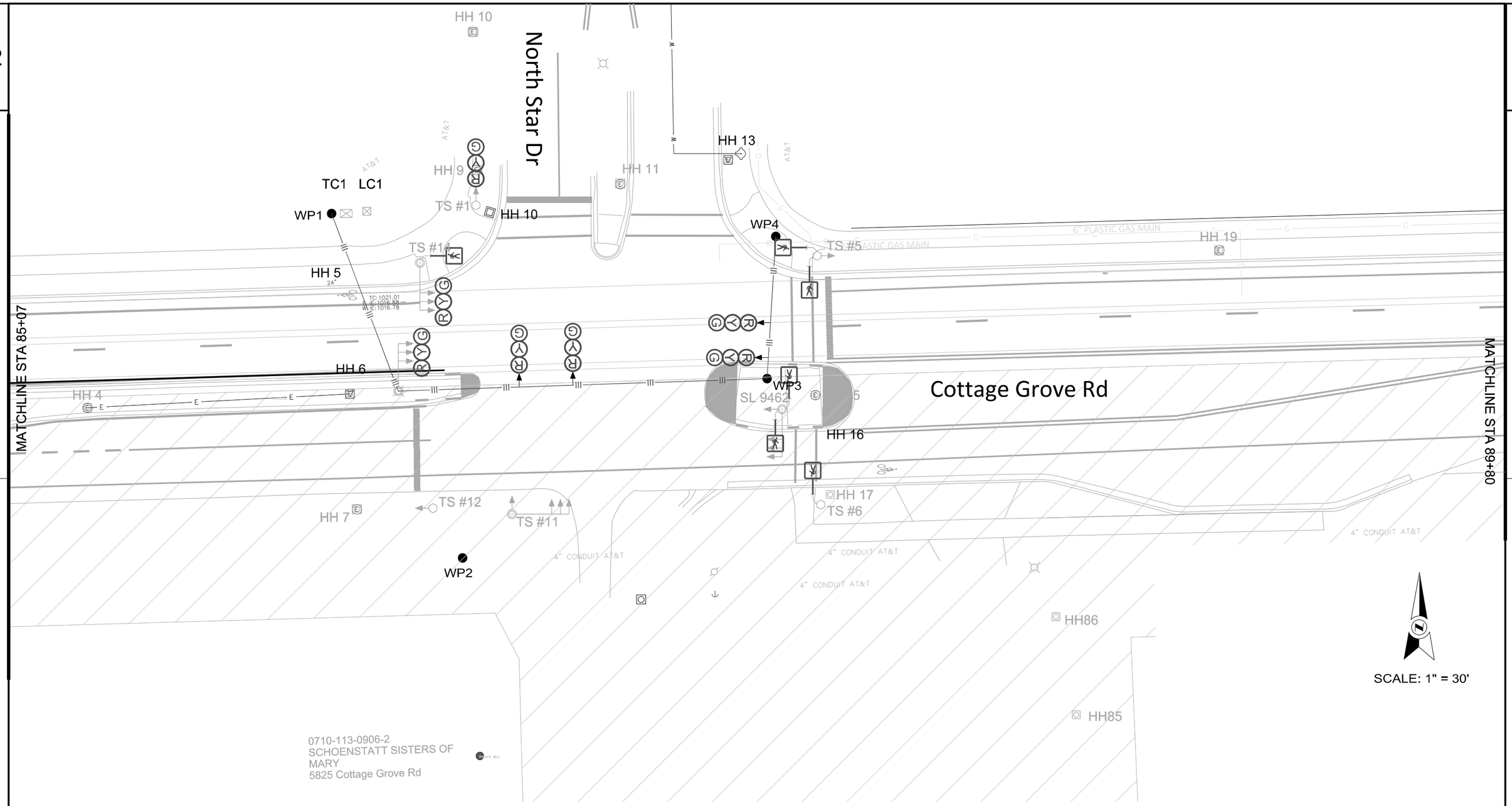
SCALE: 1" = 30'

TEMPORARY SIGNAL NOTES

1. SIGNALHEADS FOR OTHER PHASES SHALL BE BAGGED.
2. CONFORM TO MUTCD SIGNAL PLACEMENT REQUIREMENTS DURING TRAFFIC SHIFTS.
3. PROVIDE TEMPORARY POLE FOR PEDESTRIAN PUSH BUTTON ON NORTHWEST CORNER AS SHOWN.
4. PROVIDE PEDESTRIAN SIGNALS ON WP6 AND WP10 AS SHOWN.

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS TEMP SIGNAL PHASE 1D - SPRECHER ROAD	SHEET 108	E

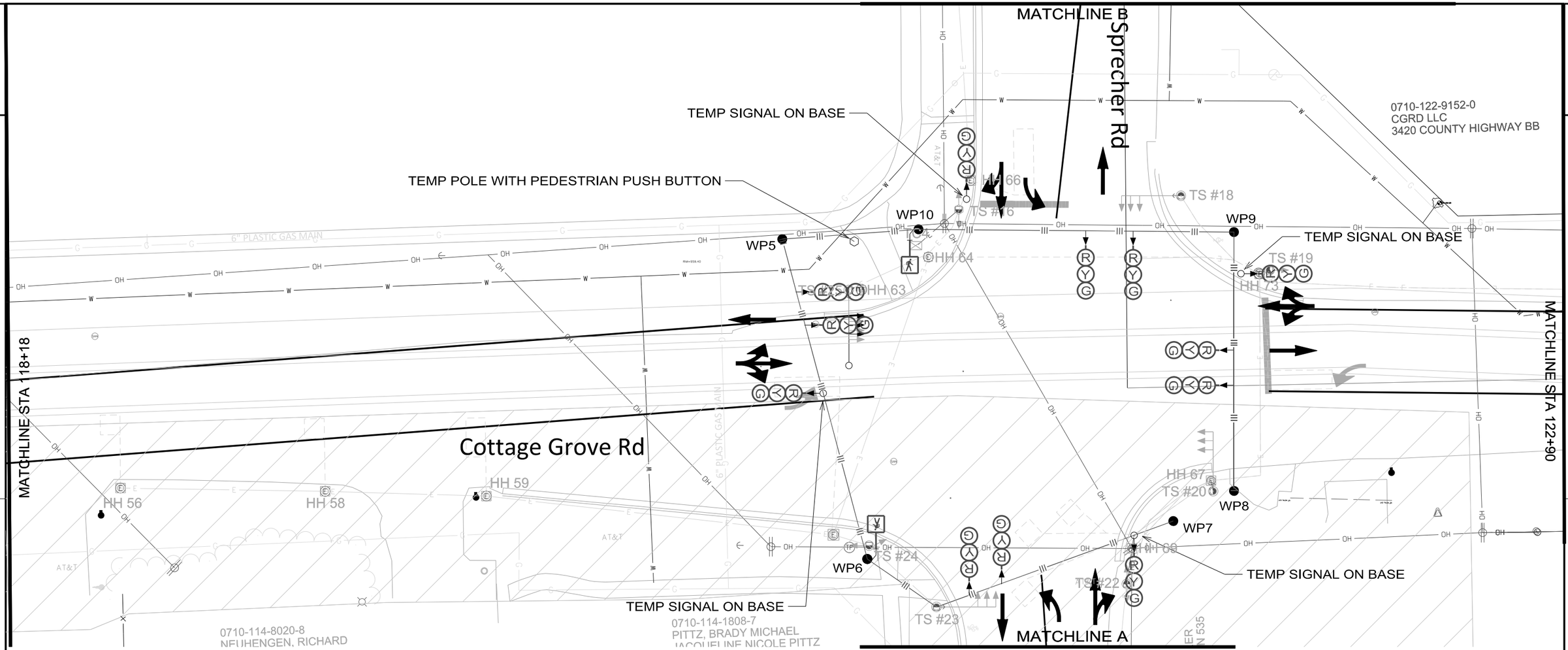
2



TEMPORARY SIGNAL NOTES

1. PHASE 1 SHALL USE EXISTING SIGNAL HEADS AND PEDESTRIAN SIGNAL HEADS.
2. BAG ANY UNUSED SIGNAL HEADS.
3. UTILIZE EXISTING PEDESTRIAN SIGNALS.

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS TEMP SIGNAL PHASE 2 - NORTH STAR DRIVE	SHEET 109	E



SCALE: 1" = 30'

TEMPORARY SIGNAL NOTES

1. SIGNALHEADS FOR OTHER PHASES SHALL BE BAGGED.
2. CONFORM TO MUTCD SIGNAL PLACEMENT REQUIREMENTS DURING TRAFFIC SHIFTS.
3. PROVIDE POLE FOR PEDESTRIAN PUSH BOTTON ON NORTHWEST CORNER AS SHOWN.
4. PROVIDE PEDESTRIAN SIGNAL HEADS ON WP 6 AND WP10

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS TEMP SIGNAL PHASE 2 - SPRECHER ROAD	SHEET 110	E

2

MATCHLINE B

Sprecher Rd

TEMP SIGNAL ON BASE

TEMP POLE WITH PEDESTRIAN PUSHBUTTON

0710-122-9152-0
CGRD LLC
3420 COUNTY HIGHWAY BB

WP10

WP5

WP9

TEMP SIGNAL ON BASE

MATCHLINE STA 118+18

MATCHLINE STA 122+90

Cottage Grove Rd

WP8

WP7

WP6

TEMP SIGNAL ON BASE

TEMP SIGNAL ON BASE

0710-114-8020-8
NEUHENGEN, RICHARD

0710-114-1808-7
PITTZ, BRADY MICHAEL
JACQUELINE NICOLE PITTZ

MATCHLINE A

SCALE: 1" = 30'

TEMPORARY SIGNAL NOTES

1. SIGNALHEADS FOR OTHER PHASES SHALL BE BAGGED.
2. CONFORM TO MUTCD SIGNAL PLACEMENT REQUIREMENTS DURING TRAFFIC SHIFTS.
3. PROVIDE PEDESTRIAN PUSH BUTTONS FOR WALK CROSSING COTTAGE GROVE ROAD ON WP6, AND ON NORTHWEST CORNER AS SHOWN.

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS TEMP SIGNAL PHASE 3 - SPRECHER ROAD	SHEET 111	E

2

North Star Dr

N. STAR DR

TC1 LC1

MATCHLINE STA 85+07

MATCHLINE STA 89+80

Cottage Grove Rd

COTTAGE GROVE RD

6" PE GAS MAIN

6" PLASTIC GAS MAIN

GAS MAIN (TO BE ABANDONED)

AT&T

0710-113-0906-2
SCHOENSTATT SISTERS OF MARY
5825 Cottage Grove Rd

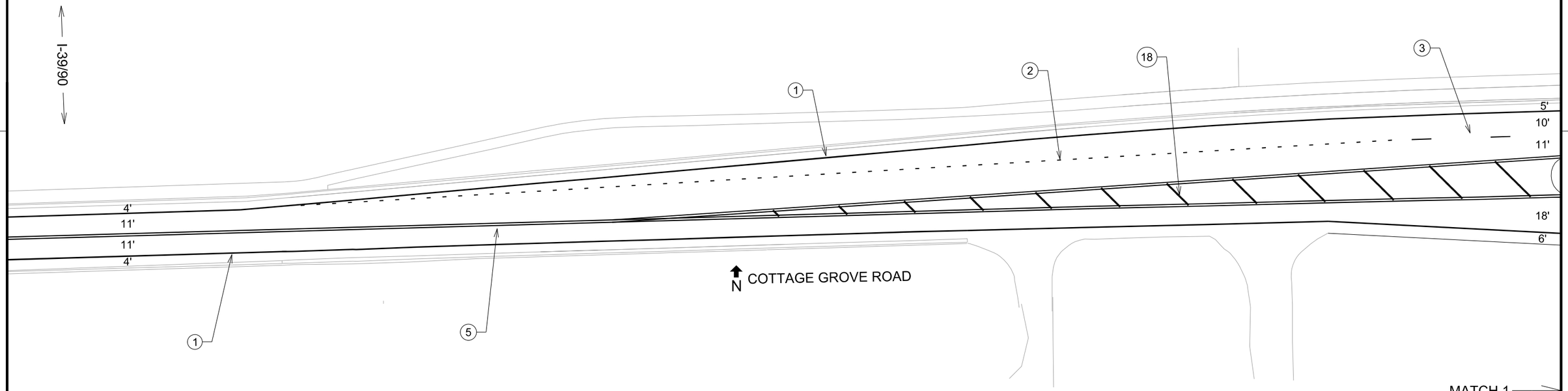
SCALE: 1" = 30'

TEMPORARY SIGNAL NOTES

1. EXTEND OVERHEAD CABLE FROM SL8605 TO WP2 FOR WB TRAVEL LANES.
2. BAG ANY UNUSED SIGNAL HEADS.
3. UTILIZE NEW SIGNALS ON SOUTH SIDE OF STREET.

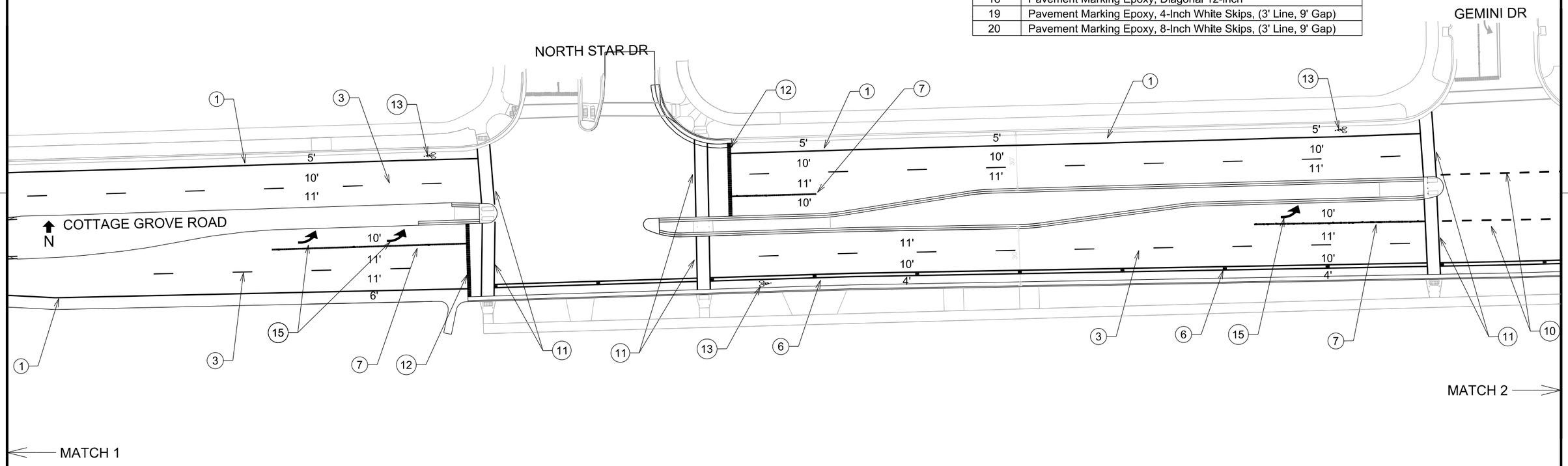
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	PLAN DETAILS TEMP SIGNAL PHASE 3 - NORTH STAR DRIVE	SHEET 112	E

Callout	Description
1	Pavement Marking Epoxy, 4-Inch Solid White
2	Pavement Marking Epoxy, 4-Inch White Skips, (2' Line, 6' Gap)
3	Pavement Marking Epoxy, 4-Inch White Skips, (10' Line, 30' Gap)
4	Pavement Marking Epoxy, 4-Inch White Skips, (5' Line, 5' Gap)
5	Pavement Marking Epoxy, 4-Inch Double Yellow
6	Pavement Marking Epoxy, 4-Inch White 2' Wide Buffered Bike Lane
7	Pavement Marking Epoxy, 8-Inch Solid White
8	Pavement Marking Epoxy, 8-Inch Solid Yellow
9	Pavement Marking Epoxy, 8-Inch White Skips, (2' Line, 6' Gap)
10	Pavement Marking Epoxy, 8-Inch White Skips, (5' Line, 5' Gap)
11	Pavement Marking Epoxy, Crosswalk, 6-Inch
12	Pavement Marking Epoxy, Stop Line, 18-Inch
13	Pavement Marking Epoxy, Symbol, Bike Lane
14	Pavement Marking Epoxy, Symbol, Bike Straight Arrow
15	Pavement Marking Epoxy, Symbol, Left Arrow
16	Pavement Marking Epoxy, Symbol, Right Arrow
17	Pavement Marking Epoxy, Word, Only
18	Pavement Marking Epoxy, Diagonal 12-inch
19	Pavement Marking Epoxy, 4-Inch White Skips, (3' Line, 9' Gap)
20	Pavement Marking Epoxy, 8-Inch White Skips, (3' Line, 9' Gap)



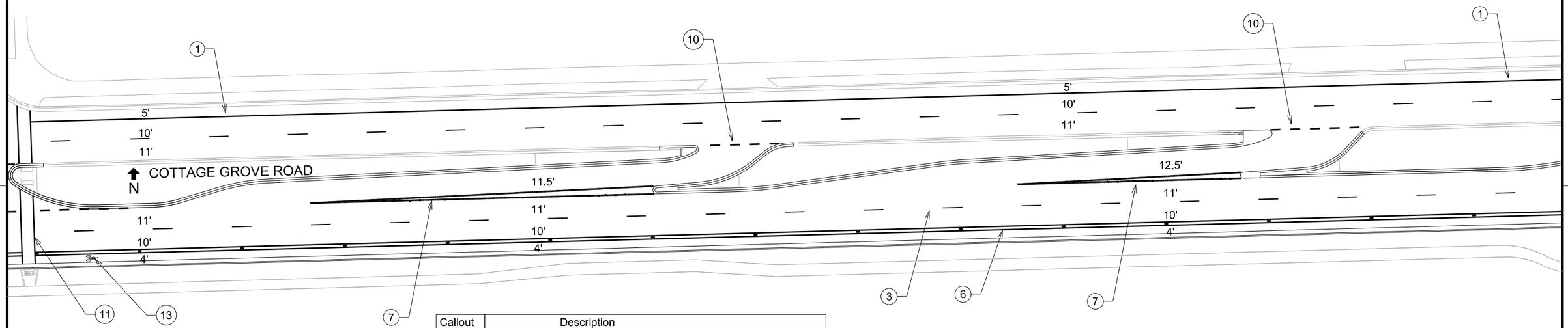
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PAVEMENT MARKING PLAN - COTTAGE GROVE RD.	SHEET 113	E

Callout	Description
1	Pavement Marking Epoxy, 4-Inch Solid White
2	Pavement Marking Epoxy, 4-Inch White Skips, (2' Line, 6' Gap)
3	Pavement Marking Epoxy, 4-Inch White Skips, (10' Line, 30' Gap)
4	Pavement Marking Epoxy, 4-Inch White Skips, (5' Line, 5' Gap)
5	Pavement Marking Epoxy, 4-Inch Double Yellow
6	Pavement Marking Epoxy, 4-Inch White 2' Wide Buffered Bike Lane
7	Pavement Marking Epoxy, 8-Inch Solid White
8	Pavement Marking Epoxy, 8-Inch Solid Yellow
9	Pavement Marking Epoxy, 8-Inch White Skips, (2' Line, 6' Gap)
10	Pavement Marking Epoxy, 8-Inch White Skips, (5' Line, 5' Gap)
11	Pavement Marking Epoxy, Crosswalk, 6-Inch
12	Pavement Marking Epoxy, Stop Line, 18-Inch
13	Pavement Marking Epoxy, Symbol, Bike Lane
14	Pavement Marking Epoxy, Symbol, Bike Straight Arrow
15	Pavement Marking Epoxy, Symbol, Left Arrow
16	Pavement Marking Epoxy, Symbol, Right Arrow
17	Pavement Marking Epoxy, Word, Only
18	Pavement Marking Epoxy, Diagonal 12-inch
19	Pavement Marking Epoxy, 4-Inch White Skips, (3' Line, 9' Gap)
20	Pavement Marking Epoxy, 8-Inch White Skips, (3' Line, 9' Gap)



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PAVEMENT MARKING PLAN - COTTAGE GROVE RD.	SHEET 114	E

2



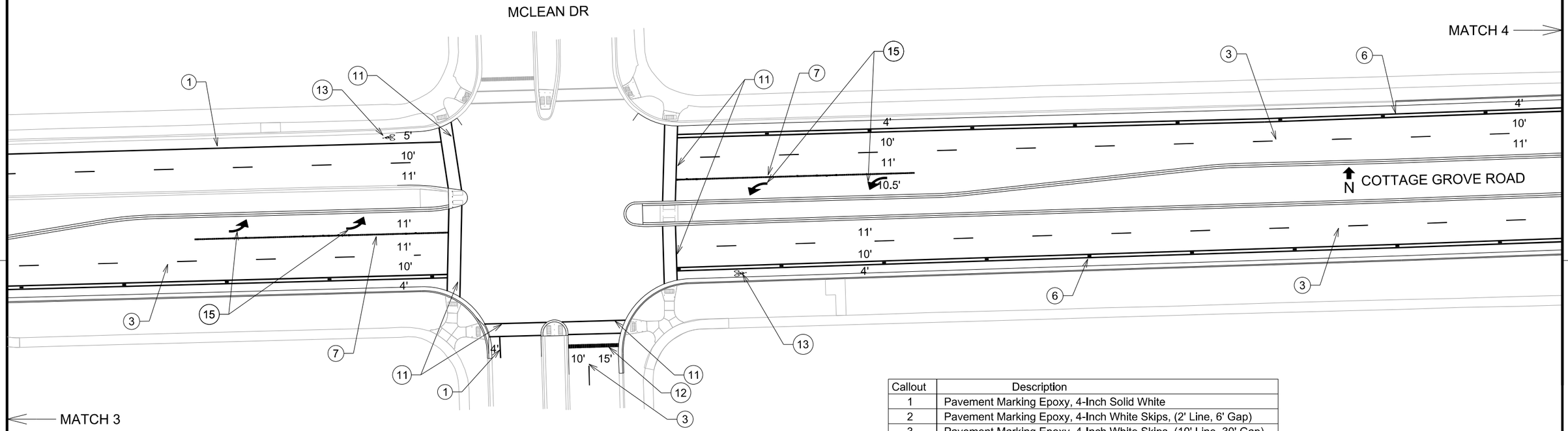
Callout	Description
1	Pavement Marking Epoxy, 4-Inch Solid White
2	Pavement Marking Epoxy, 4-Inch White Skips, (2' Line, 6' Gap)
3	Pavement Marking Epoxy, 4-Inch White Skips, (10' Line, 30' Gap)
4	Pavement Marking Epoxy, 4-Inch White Skips, (5' Line, 5' Gap)
5	Pavement Marking Epoxy, 4-Inch Double Yellow
6	Pavement Marking Epoxy, 4-Inch White 2' Wide Buffered Bike Lane
7	Pavement Marking Epoxy, 8-Inch Solid White
8	Pavement Marking Epoxy, 8-Inch Solid Yellow
9	Pavement Marking Epoxy, 8-Inch White Skips, (2' Line, 6' Gap)
10	Pavement Marking Epoxy, 8-Inch White Skips, (5' Line, 5' Gap)
11	Pavement Marking Epoxy, Crosswalk, 6-Inch
12	Pavement Marking Epoxy, Stop Line, 18-Inch
13	Pavement Marking Epoxy, Symbol, Bike Lane
14	Pavement Marking Epoxy, Symbol, Bike Straight Arrow
15	Pavement Marking Epoxy, Symbol, Left Arrow
16	Pavement Marking Epoxy, Symbol, Right Arrow
17	Pavement Marking Epoxy, Word, Only
18	Pavement Marking Epoxy, Diagonal 12-inch
19	Pavement Marking Epoxy, 4-Inch White Skips, (3' Line, 9' Gap)
20	Pavement Marking Epoxy, 8-Inch White Skips, (3' Line, 9' Gap)

MATCH 2

MATCH 3

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PAVEMENT MARKING PLAN - COTTAGE GROVE RD.	SHEET 115	E

2



Callout	Description
1	Pavement Marking Epoxy, 4-Inch Solid White
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3	Pavement Marking Epoxy, 4-Inch White Skips, (10' Line, 30' Gap)
4	Pavement Marking Epoxy, 4-Inch White Skips, (5' Line, 5' Gap)
5	Pavement Marking Epoxy, 4-Inch Double Yellow
6	Pavement Marking Epoxy, 4-Inch White 2' Wide Buffered Bike Lane
7	Pavement Marking Epoxy, 8-Inch Solid White
8	Pavement Marking Epoxy, 8-Inch Solid Yellow
9	Pavement Marking Epoxy, 8-Inch White Skips, (2' Line, 6' Gap)
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11	Pavement Marking Epoxy, Crosswalk, 6-Inch
12	Pavement Marking Epoxy, Stop Line, 18-Inch
13	Pavement Marking Epoxy, Symbol, Bike Lane
14	Pavement Marking Epoxy, Symbol, Bike Straight Arrow
15	Pavement Marking Epoxy, Symbol, Left Arrow
16	Pavement Marking Epoxy, Symbol, Right Arrow
17	Pavement Marking Epoxy, Word, Only
18	Pavement Marking Epoxy, Diagonal 12-inch
19	Pavement Marking Epoxy, 4-Inch White Skips, (3' Line, 9' Gap)
20	Pavement Marking Epoxy, 8-Inch White Skips, (3' Line, 9' Gap)

Callout	Description
1	Pavement Marking Epoxy, 4-Inch Solid White
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4	Pavement Marking Epoxy, 4-Inch White Skips, (5' Line, 5' Gap)
5	Pavement Marking Epoxy, 4-Inch Double Yellow
6	Pavement Marking Epoxy, 4-Inch White 2' Wide Buffered Bike Lane
7	Pavement Marking Epoxy, 8-Inch Solid White
8	Pavement Marking Epoxy, 8-Inch Solid Yellow
9	Pavement Marking Epoxy, 8-Inch White Skips, (2' Line, 6' Gap)
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13	Pavement Marking Epoxy, Symbol, Bike Lane
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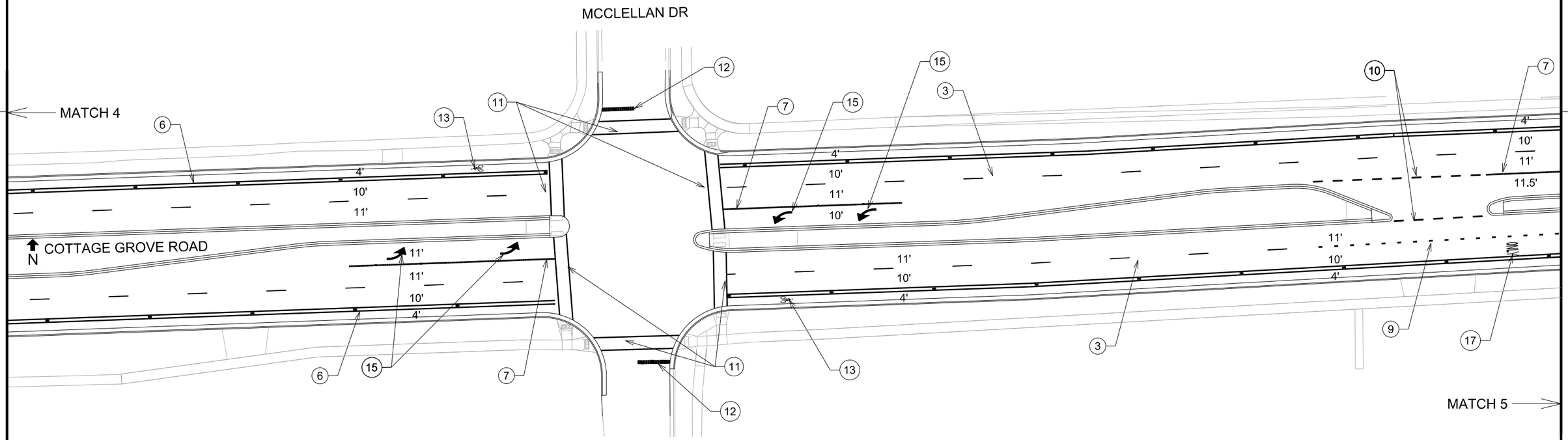
15	Pavement Marking Epoxy, Symbol, Left Arrow
16	Pavement Marking Epoxy, Symbol, Right Arrow
17	Pavement Marking Epoxy, Word, Only
18	Pavement Marking Epoxy, Diagonal 12-inch
19	Pavement Marking Epoxy, 4-Inch White Skips, (3' Line, 9' Gap)
20	Pavement Marking Epoxy, 8-Inch White Skips, (3' Line, 9' Gap)



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PAVEMENT MARKING PLAN - COTTAGE GROVE RD.	SHEET 117	E

Callout	Description
1	Pavement Marking Epoxy, 4-Inch Solid White
2	Pavement Marking Epoxy, 4-Inch White Skips, (2' Line, 6' Gap)
3	Pavement Marking Epoxy, 4-Inch White Skips, (10' Line, 30' Gap)
4	Pavement Marking Epoxy, 4-Inch White Skips, (5' Line, 5' Gap)
5	Pavement Marking Epoxy, 4-Inch Double Yellow
6	Pavement Marking Epoxy, 4-Inch White 2' Wide Buffered Bike Lane
7	Pavement Marking Epoxy, 8-Inch Solid White
8	Pavement Marking Epoxy, 8-Inch Solid Yellow
9	Pavement Marking Epoxy, 8-Inch White Skips, (2' Line, 6' Gap)
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13	Pavement Marking Epoxy, Symbol, Bike Lane
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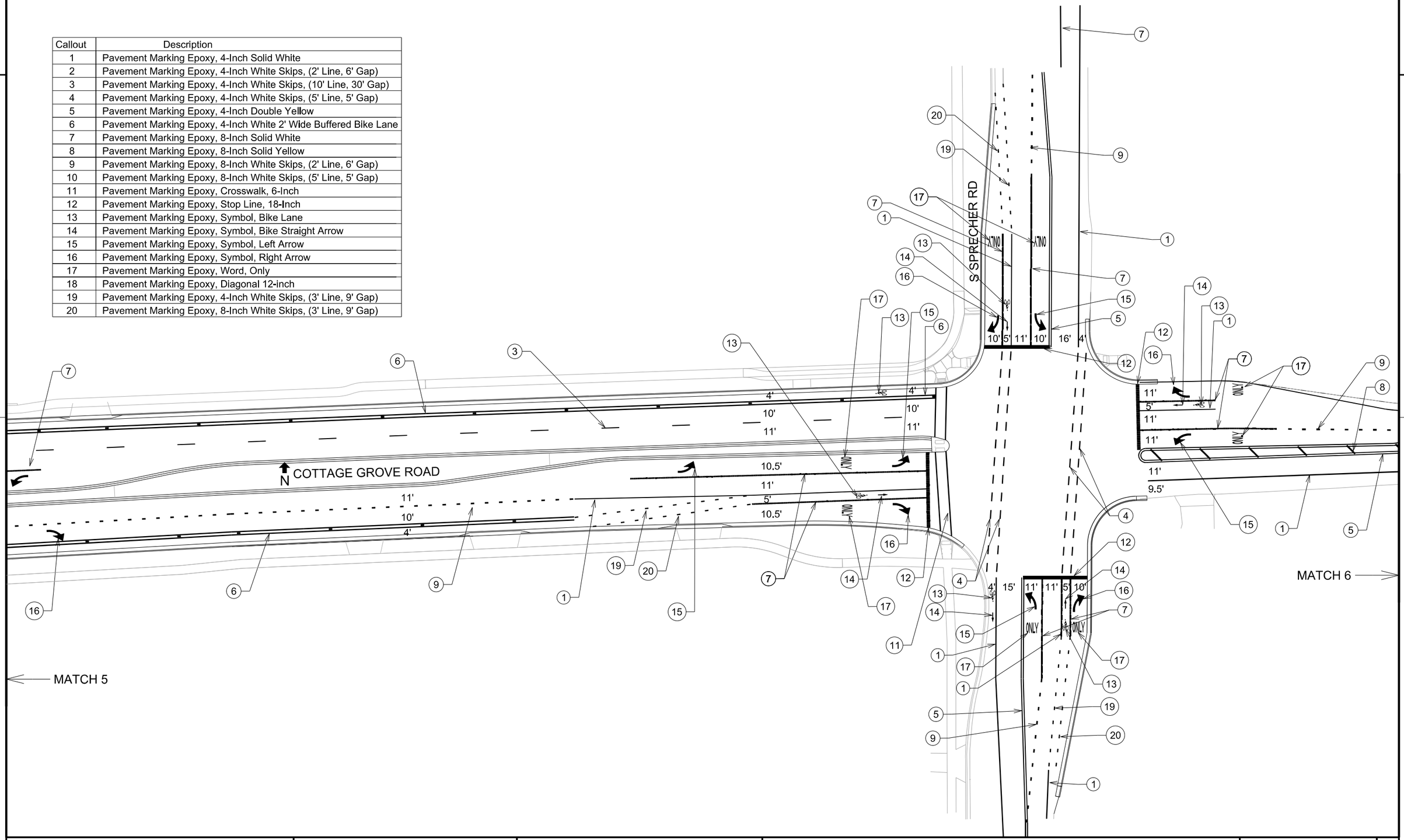
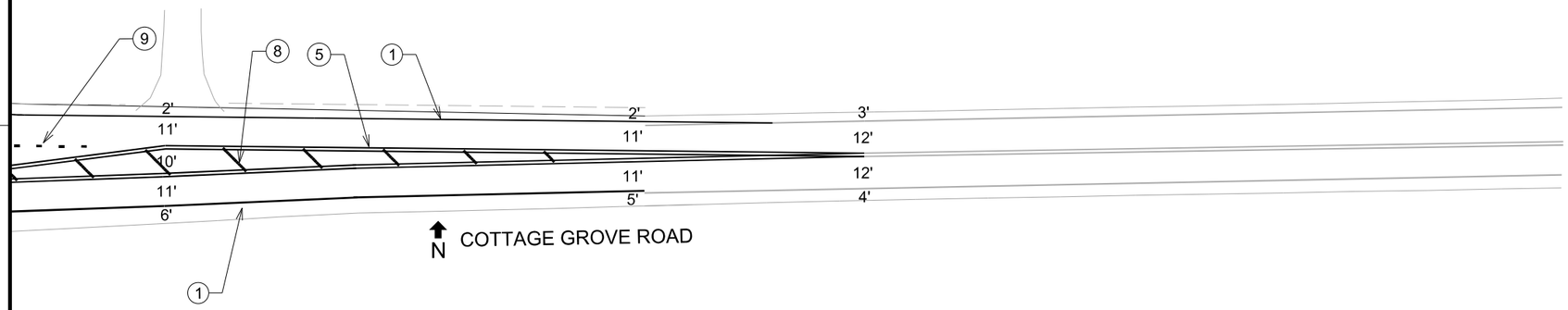
15	Pavement Marking Epoxy, Symbol, Left Arrow
16	Pavement Marking Epoxy, Symbol, Right Arrow
17	Pavement Marking Epoxy, Word, Only
18	Pavement Marking Epoxy, Diagonal 12-inch
19	Pavement Marking Epoxy, 4-Inch White Skips, (3' Line, 9' Gap)
20	Pavement Marking Epoxy, 8-Inch White Skips, (3' Line, 9' Gap)



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PAVEMENT MARKING PLAN - COTTAGE GROVE RD.	SHEET 118	E

Callout	Description
1	Pavement Marking Epoxy, 4-Inch Solid White
2	Pavement Marking Epoxy, 4-Inch White Skips, (2' Line, 6' Gap)
3	Pavement Marking Epoxy, 4-Inch White Skips, (10' Line, 30' Gap)
4	Pavement Marking Epoxy, 4-Inch White Skips, (5' Line, 5' Gap)
5	Pavement Marking Epoxy, 4-Inch Double Yellow
6	Pavement Marking Epoxy, 4-Inch White 2' Wide Buffered Bike Lane
7	Pavement Marking Epoxy, 8-Inch Solid White
8	Pavement Marking Epoxy, 8-Inch Solid Yellow
9	Pavement Marking Epoxy, 8-Inch White Skips, (2' Line, 6' Gap)
10	Pavement Marking Epoxy, 8-Inch White Skips, (5' Line, 5' Gap)
11	Pavement Marking Epoxy, Crosswalk, 6-Inch
12	Pavement Marking Epoxy, Stop Line, 18-Inch
13	Pavement Marking Epoxy, Symbol, Bike Lane
14	Pavement Marking Epoxy, Symbol, Bike Straight Arrow
15	Pavement Marking Epoxy, Symbol, Left Arrow
16	Pavement Marking Epoxy, Symbol, Right Arrow
17	Pavement Marking Epoxy, Word, Only
18	Pavement Marking Epoxy, Diagonal 12-inch
19	Pavement Marking Epoxy, 4-Inch White Skips, (3' Line, 9' Gap)
20	Pavement Marking Epoxy, 8-Inch White Skips, (3' Line, 9' Gap)



MATCH 6

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PAVEMENT MARKING PLAN - COTTAGE GROVE RD.	SHEET 119	E

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

N

MATCH 1
PHASE 1A

Remove 2x6 dashed line

END ROAD WORK

I-39/90

Cottage Grove Rd

I-39/90

200'

ROAD WORK AHEAD

ROAD WORK AHEAD

DETOUR

BIKE LANE CLOSED AHEAD

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 1A - COTTAGE GROVE RD.	SHEET 120 E

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

N

2

2

MATCH 1
PHASE 1A

Remove 2x6 dashed line

Begin removal of 4" line

Remove 10x30 dashed line

Remove 4" line

2

Cottage Grove Rd

MATCH 2
PHASE 1A

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 1A - COTTAGE GROVE RD.	SHEET 121 E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

N

2

2

ROAD WORK AHEAD

ROAD WORK AHEAD

North Star Dr

Gemini Dr

ONLY

Remove 10x30 dashed line

Remove 4" line

Remove 4" line

Remove 4" line

Cottage Grove Rd

MATCH 2
PHASE 1A

MATCH 3
PHASE 1A

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 1A - COTTAGE GROVE RD.	SHEET E

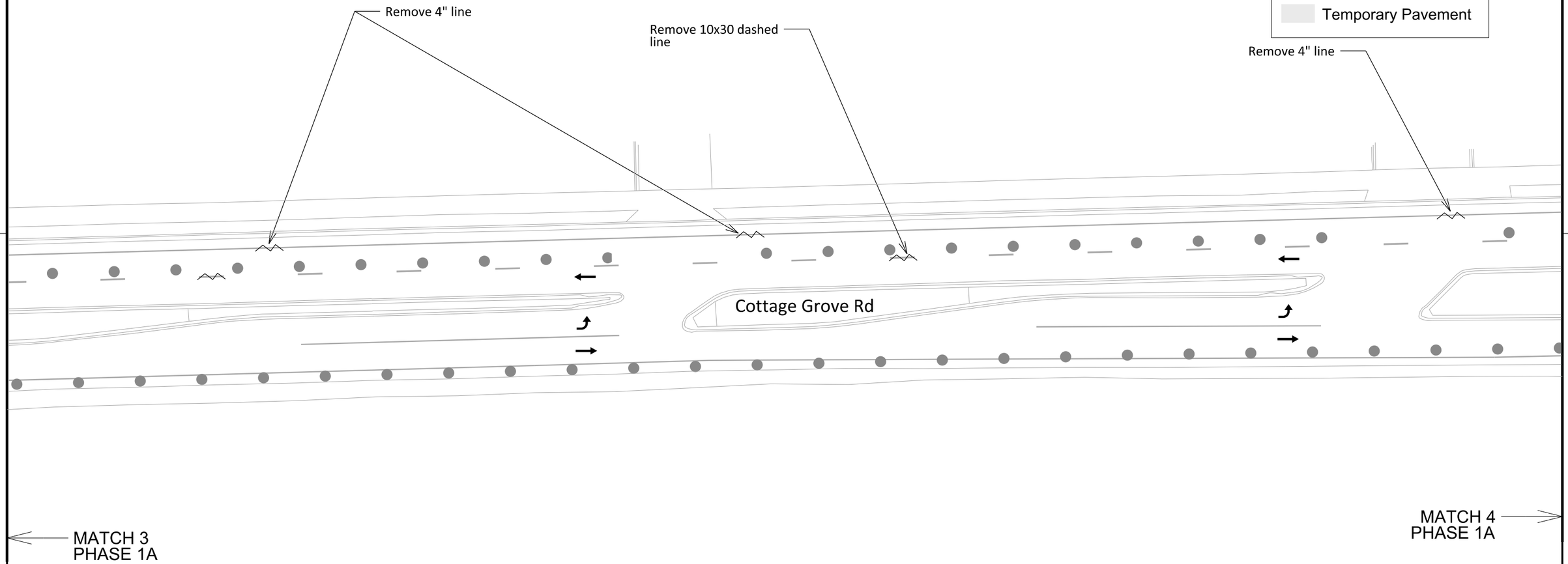
FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

N



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 1A - COTTAGE GROVE RD.	SHEET 123 E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

N

ROAD WORK AHEAD

Remove 4" line

Remove 10x30 dashed line

Remove 4" line

Remove 4" line

Remove double yellow line

Remove 10x30 dashed line

Remove 2x6 dashed line

McLean Dr

2

Cottage Grove Rd

2

1

MATCH 4
PHASE 1A

MATCH 5
PHASE 1A

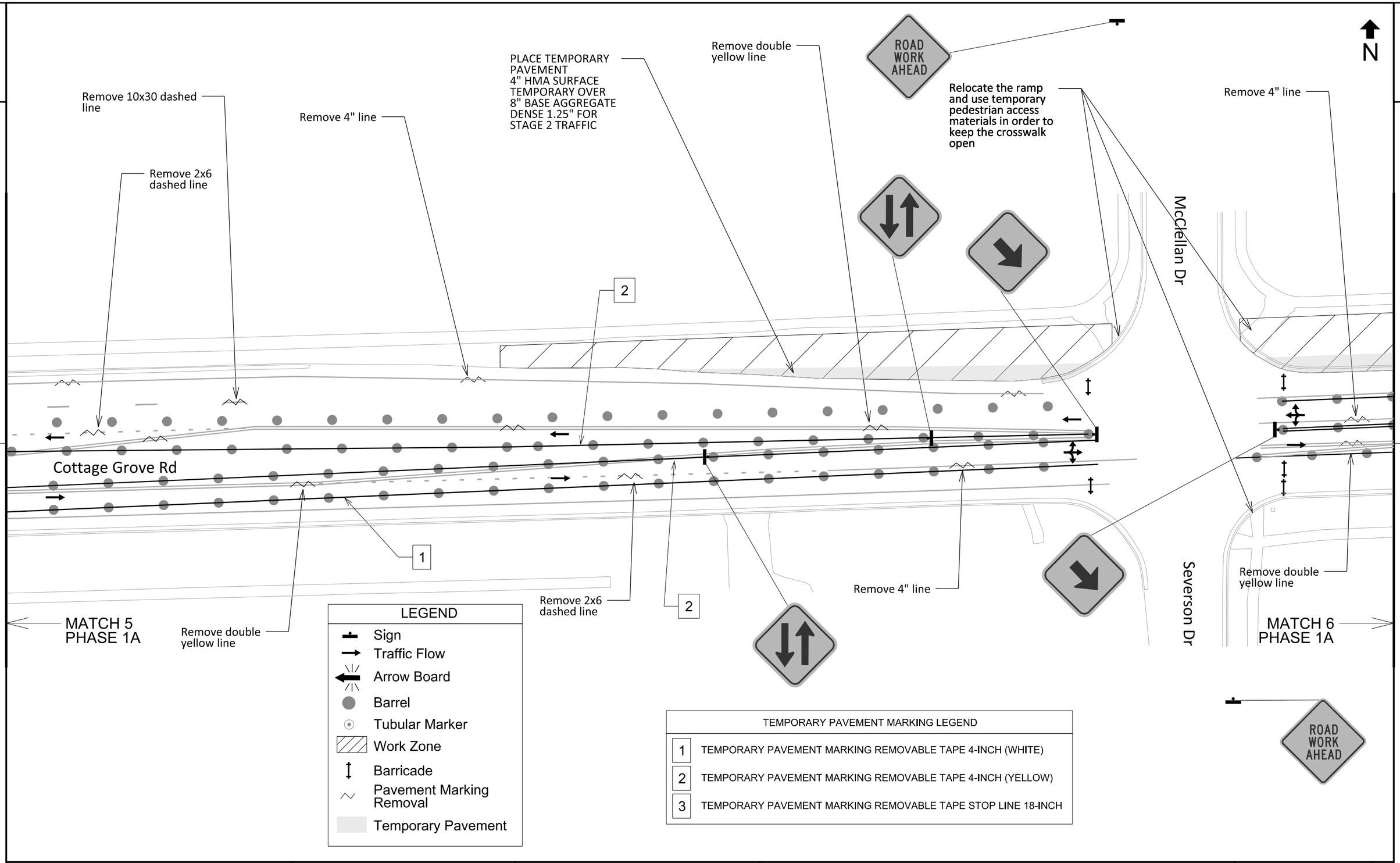
ROAD WORK AHEAD

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 1A - COTTAGE GROVE RD.	SHEET 124 E



LEGEND
Sign
Traffic Flow
Arrow Board
Barrel
Tubular Marker
Work Zone
Barricade
Pavement Marking Removal
Temporary Pavement

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 1A - COTTAGE GROVE RD.	SHEET 125 E

2

N

PLACE TEMPORARY PAVEMENT 4" HMA SURFACE TEMPORARY OVER 8" BASE AGGREGATE DENSE 1.25" FOR STAGE 2 TRAFFIC

Remove 2x6 dashed line

Remove 4" line

Remove double yellow line

Remove 4" line

Remove 2x6 dashed line

1

2

Cottage Grove Rd

1

Remove double yellow line

MATCH 6
PHASE 1A

MATCH 7
PHASE 1A

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 1A - COTTAGE GROVE RD.	SHEET E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

PLACE TEMPORARY PAVEMENT 4" HMA SURFACE TEMPORARY OVER 8" BASE AGGREGATE DENSE 1.25" FOR STAGE 2 TRAFFIC

Remove 4" line

Remove 8" line

Remove 4" line

Remove double yellow line

Relocate the ramp and use temporary pedestrian access materials in order to keep the crosswalk open

Sprecher Rd

Cottage Grove Rd

Remove 5x5 dashed line

Remove double yellow line

Remove ONLY

Remove 8" line

Remove left arrow

Remove 8" line

Remove ONLY

Remove left arrow

Remove double yellow line

Remove 5x5 dashed line

Remove double yellow line

Remove 8" line

Remove 8" line

Remove 5x5 dashed line

TEMPORARY PAVEMENT MARKING LEGEND

1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

N

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

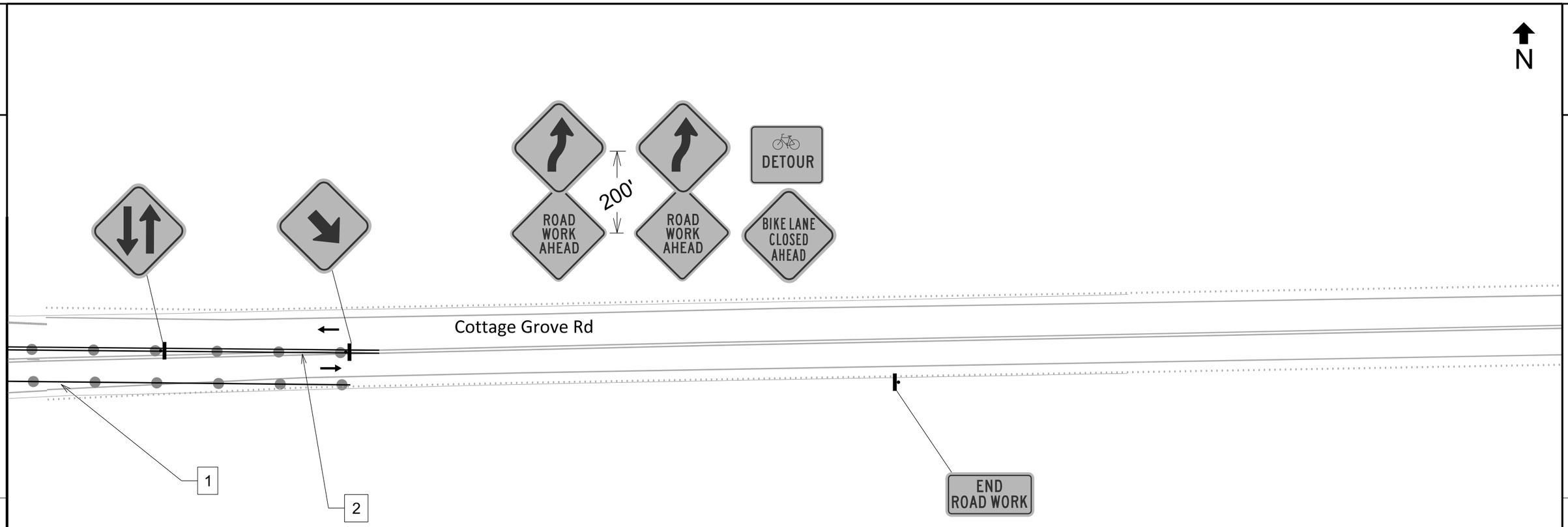
ROAD WORK AHEAD

MATCH 7 PHASE 1A

MATCH 8 PHASE 1A

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 1A - COTTAGE GROVE RD.	SHEET E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$



MATCH 8
PHASE 1A

LEGEND
Sign
Traffic Flow
Arrow Board
Barrel
Tubular Marker
Work Zone
Barricade
Pavement Marking Removal
Temporary Pavement

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 1A - COTTAGE GROVE RD.	SHEET 128	E

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

N

Sprecher Rd

Cottage Grove Rd

Relocate the ramp and use temporary pedestrian access materials in order to keep the crosswalk open

ROAD WORK AHEAD

LEGEND
Sign
Traffic Flow
Arrow Board
Barrel
Tubular Marker
Work Zone
Barricade
Pavement Marking Removal
Temporary Pavement

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 1B - COTTAGE GROVE RD.	SHEET 129 E

2

Sprecher Rd

Cottage Grove Rd

Relocate the ramp and use temporary pedestrian access materials in order to keep the crosswalk open

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

N

LEGEND	
	Sign
	Traffic Flow
	Arrow Board
	Barrel
	Tubular Marker
	Work Zone
	Barricade
	Pavement Marking Removal
	Temporary Pavement

ROAD WORK AHEAD

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 1C - COTTAGE GROVE RD.	SHEET 130	E

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

Sprecher Rd

Cottage Grove Rd

N

Relocate the ramp and use temporary pedestrian access materials in order to keep the crosswalk open

Connect storm sewer pipe to stub installed in Stage 1A utilizing flaggers as necessary during off peak hours

ROAD WORK AHEAD

LEGEND	
	Sign
	Traffic Flow
	Arrow Board
	Barrel
	Tubular Marker
	Work Zone
	Barricade
	Pavement Marking Removal
	Temporary Pavement

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 1D - COTTAGE GROVE RD.	SHEET 131 E

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

N

MATCH 1
PHASE 2

END ROAD WORK

I-39/90

Cottage Grove Rd

I-39/90

2

1

200'

ROAD WORK AHEAD

ROAD WORK AHEAD

DETOUR

BIKE LANE CLOSED AHEAD

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 2 - COTTAGE GROVE RD.	SHEET E

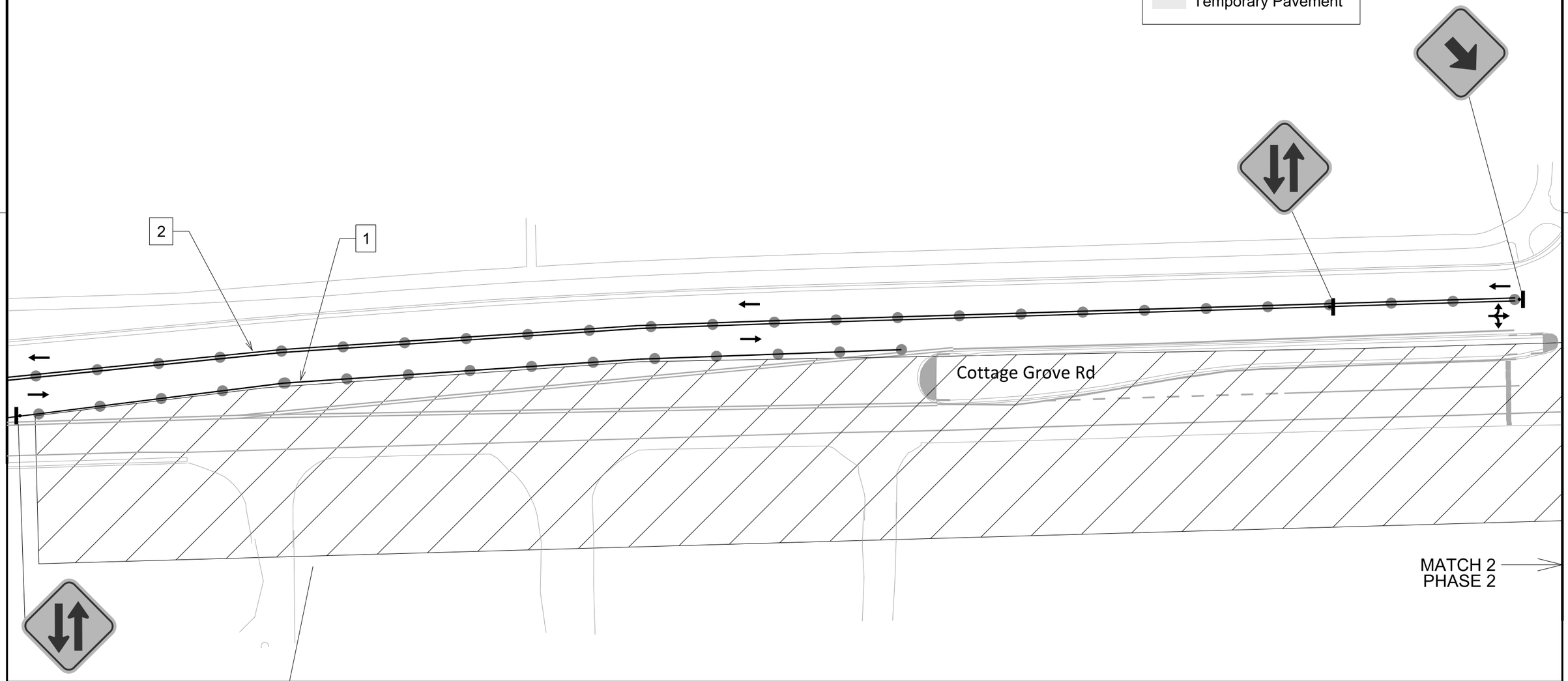
FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND
Sign
Traffic Flow
Arrow Board
Barrel
Tubular Marker
Work Zone
Barricade
Pavement Marking Removal
Temporary Pavement

N

MATCH 1
PHASE 2



MATCH 2
PHASE 2

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 2 - COTTAGE GROVE RD.	SHEET 133 E

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

N

2

2

North Star Dr

Gemini Dr

ONLY

Cottage Grove Rd

2

2

MATCH 2
PHASE 2

MATCH 3
PHASE 2

Relocate the ramp and use temporary pedestrian access materials in order to keep the crosswalk open

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 2 - COTTAGE GROVE RD.	SHEET E

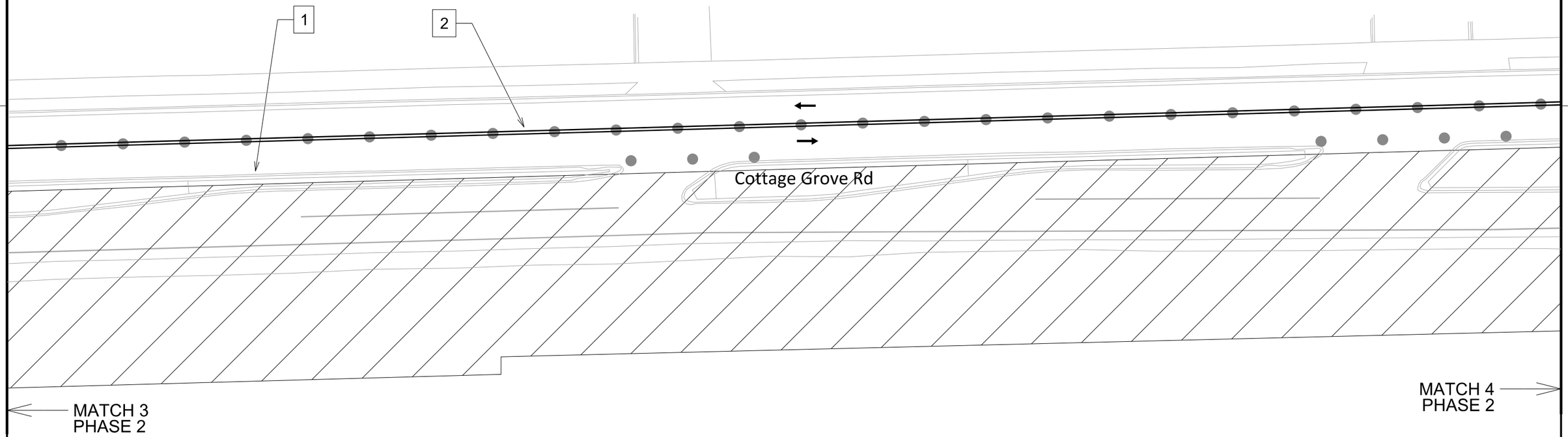
FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

N



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 2 - COTTAGE GROVE RD.	SHEET 135 E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

N

McLean Dr

Cottage Grove Rd

2

2

Keep one crosswalk open at all times

MATCH 4
PHASE 2

MATCH 5
PHASE 2

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 2 - COTTAGE GROVE RD.	SHEET 136 E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

2

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

N

2

1

2

Cottage Grove Rd

McClellan Dr

Severson Dr

Relocate the ramp and use temporary pedestrian access materials in order to keep the crosswalk open

MATCH 5
PHASE 2

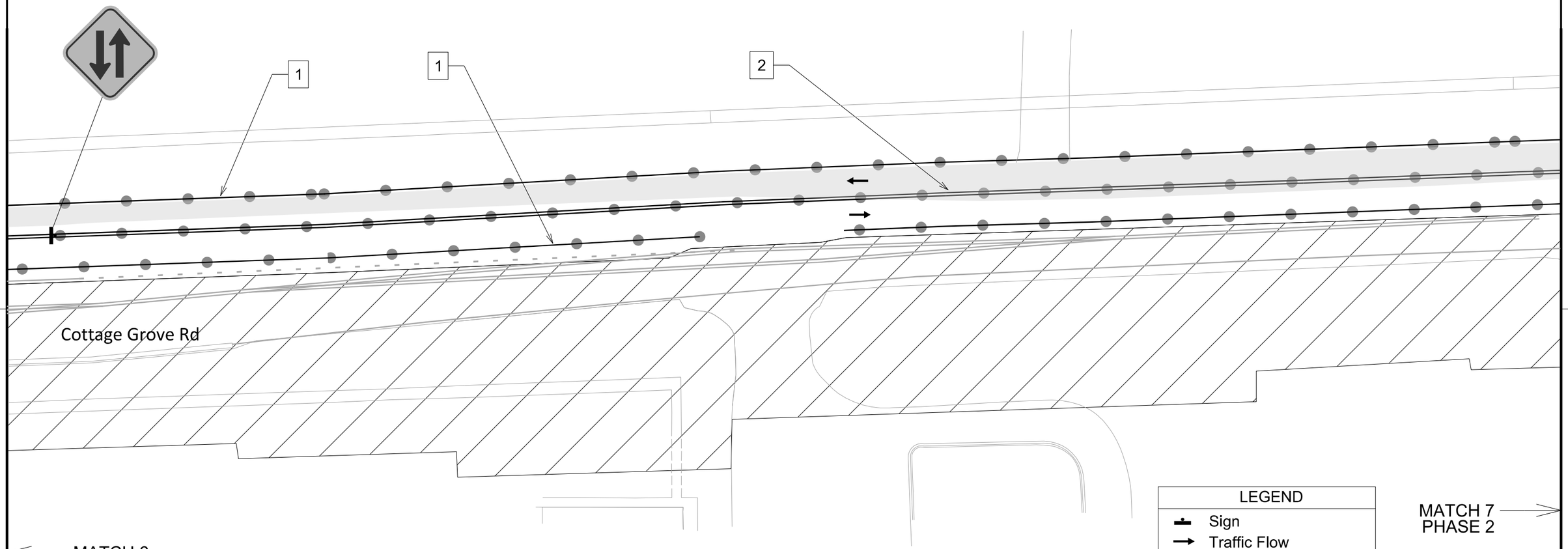
MATCH 6
PHASE 2

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 2 - COTTAGE GROVE RD.	SHEET 137 E

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

N



LEGEND	
	Sign
	Traffic Flow
	Arrow Board
	Barrel
	Tubular Marker
	Work Zone
	Barricade
	Pavement Marking Removal
	Temporary Pavement

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 2 - COTTAGE GROVE RD.	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

N

Sprecher Rd

Cottage Grove Rd

Relocate the ramp and use temporary pedestrian access materials in order to keep the crosswalk open

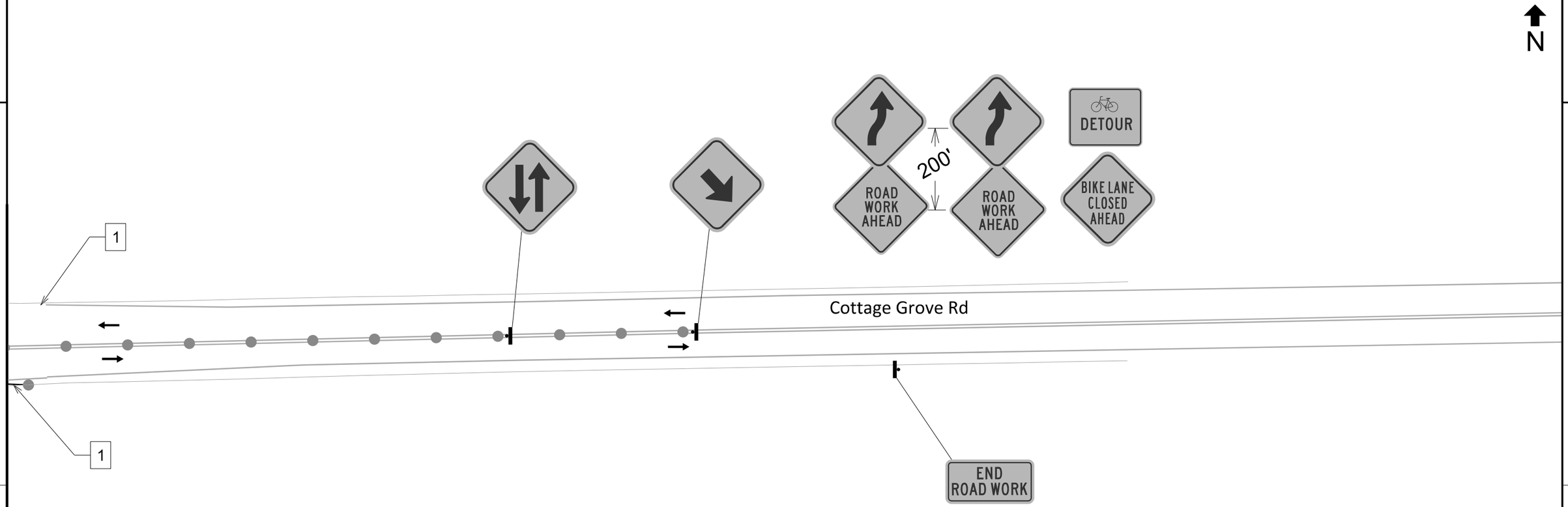
LEGEND	
	Sign
	Traffic Flow
	Arrow Board
	Barrel
	Tubular Marker
	Work Zone
	Barricade
	Pavement Marking Removal
	Temporary Pavement

MATCH 7 PHASE 2

MATCH 8 PHASE 2

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 2 - COTTAGE GROVE RD.	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



MATCH 8
PHASE 2

LEGEND
Sign
Traffic Flow
Arrow Board
Barrel
Tubular Marker
Work Zone
Barricade
Pavement Marking Removal
Temporary Pavement

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 2 - COTTAGE GROVE RD.	SHEET 140 E

2

2

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

N

McClellan Dr

2

Cottage Grove Rd

Relocate the ramp and use temporary pedestrian access materials in order to keep the crosswalk open

Severson Dr

MATCH 1
PHASE 2A

TEMPORARY PAVEMENT MARKING LEGEND

1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 2A - COTTAGE GROVE RD.	SHEET 141 E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

N

2

2

Cottage Grove Rd

MATCH 1
PHASE 2A

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND
Sign
Traffic Flow
Arrow Board
Barrel
Tubular Marker
Work Zone
Barricade
Pavement Marking Removal
Temporary Pavement

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 2A - COTTAGE GROVE RD.	SHEET E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

2

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Temporary Pavement
- Barricade
- Pavement Marking Removal

N

North Star Dr

Gemini Dr

ONLY

Cottage Grove Rd

Relocate the ramp and use temporary pedestrian access materials in order to keep the crosswalk open

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 2B - COTTAGE GROVE RD.	SHEET E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

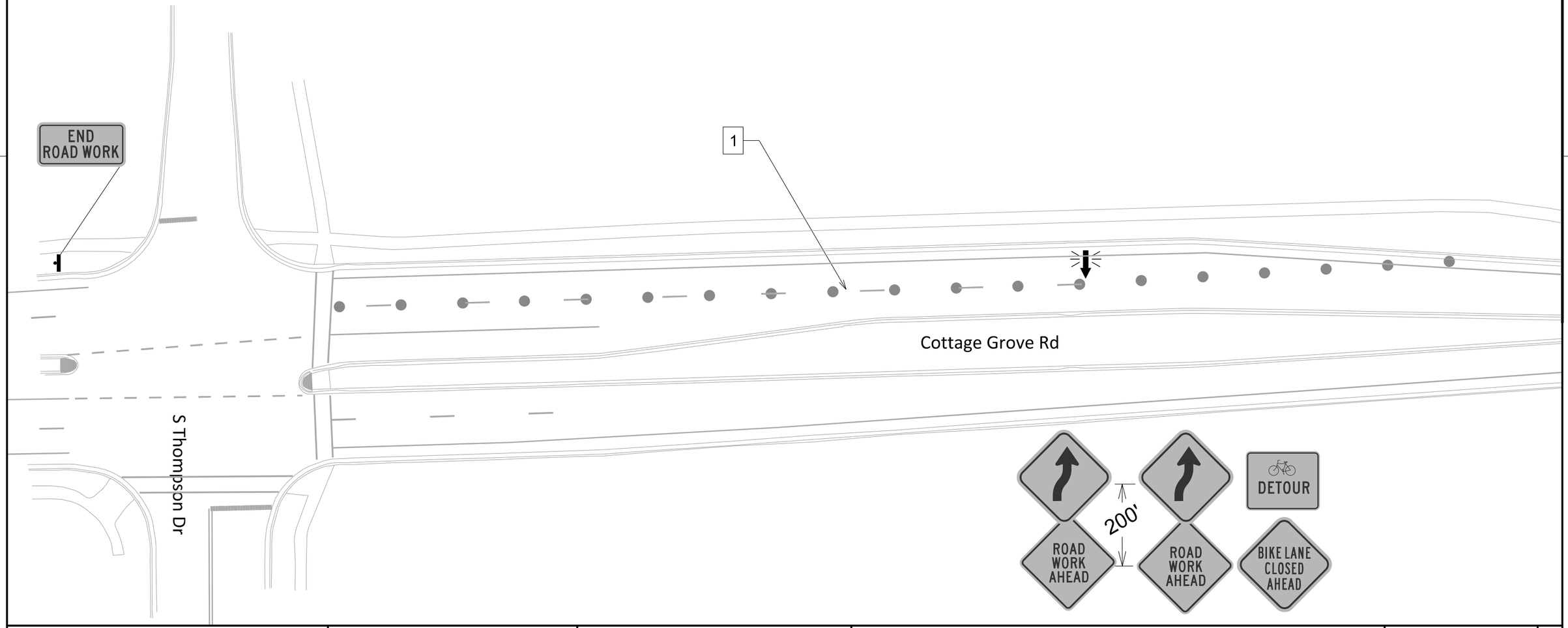
TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

N

MATCH 1
PHASE 3



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 3 - COTTAGE GROVE RD.	SHEET 144 E

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND
Sign
Traffic Flow
Arrow Board
Barrel
Tubular Marker
Work Zone
Barricade
Pavement Marking Removal
Temporary Pavement

N

2

2

MATCH 1
PHASE 3

MATCH 2
PHASE 3

I-39/90

Cottage Grove Rd

I-39/90

1

2

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 3 - COTTAGE GROVE RD.	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND

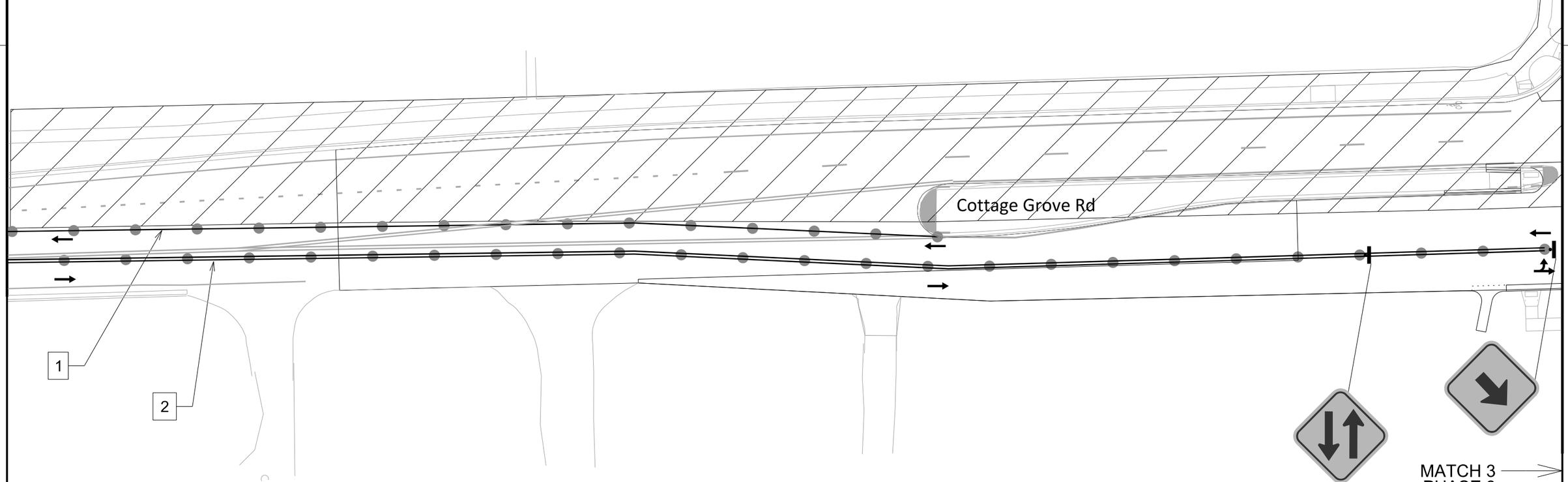
- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

N

2

2

MATCH 2
PHASE 3



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 3 - COTTAGE GROVE RD.	SHEET 146 E

2

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

Keep one crosswalk open at all times

North Star Dr

Cottage Grove Rd

SIDEWALK CLOSED

SIDEWALK CLOSED

Gemini Dr

ONLY

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

N

2

2

2

MATCH 3
PHASE 3

2

MATCH 4
PHASE 3

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 3 - COTTAGE GROVE RD.	SHEET E

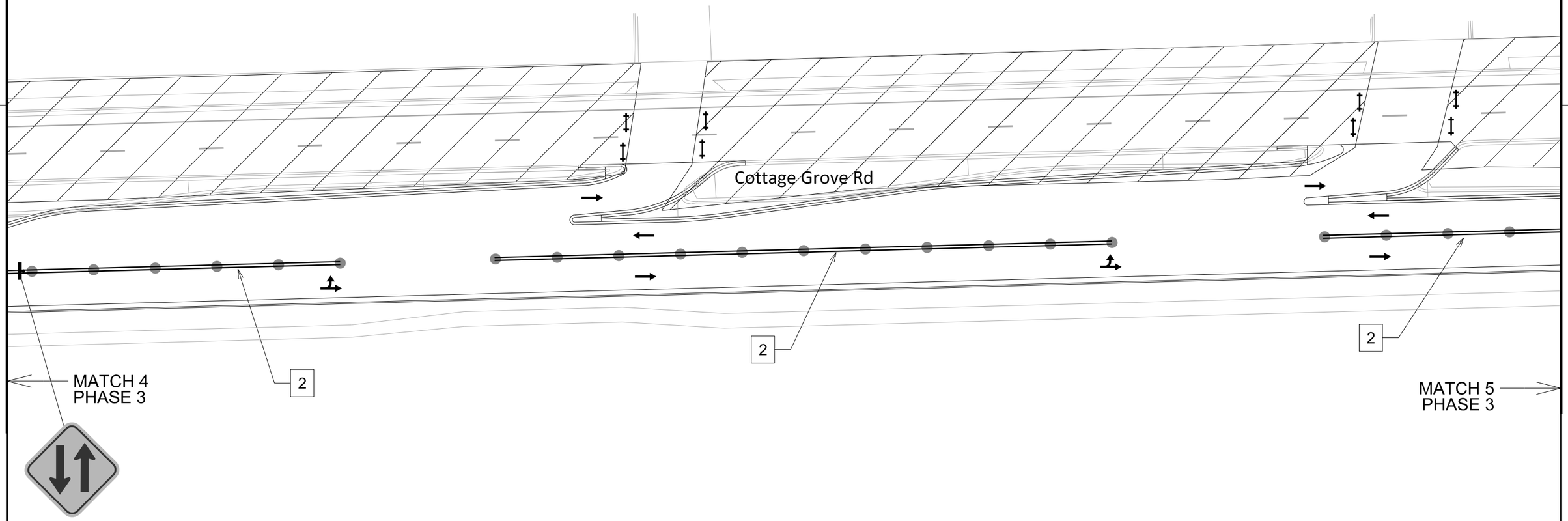
FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$
WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

N



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 3 - COTTAGE GROVE RD.	SHEET 148 E

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

N

Keep one crosswalk open at all times

McLean Dr

Cottage Grove Rd

1 1

2 2

3

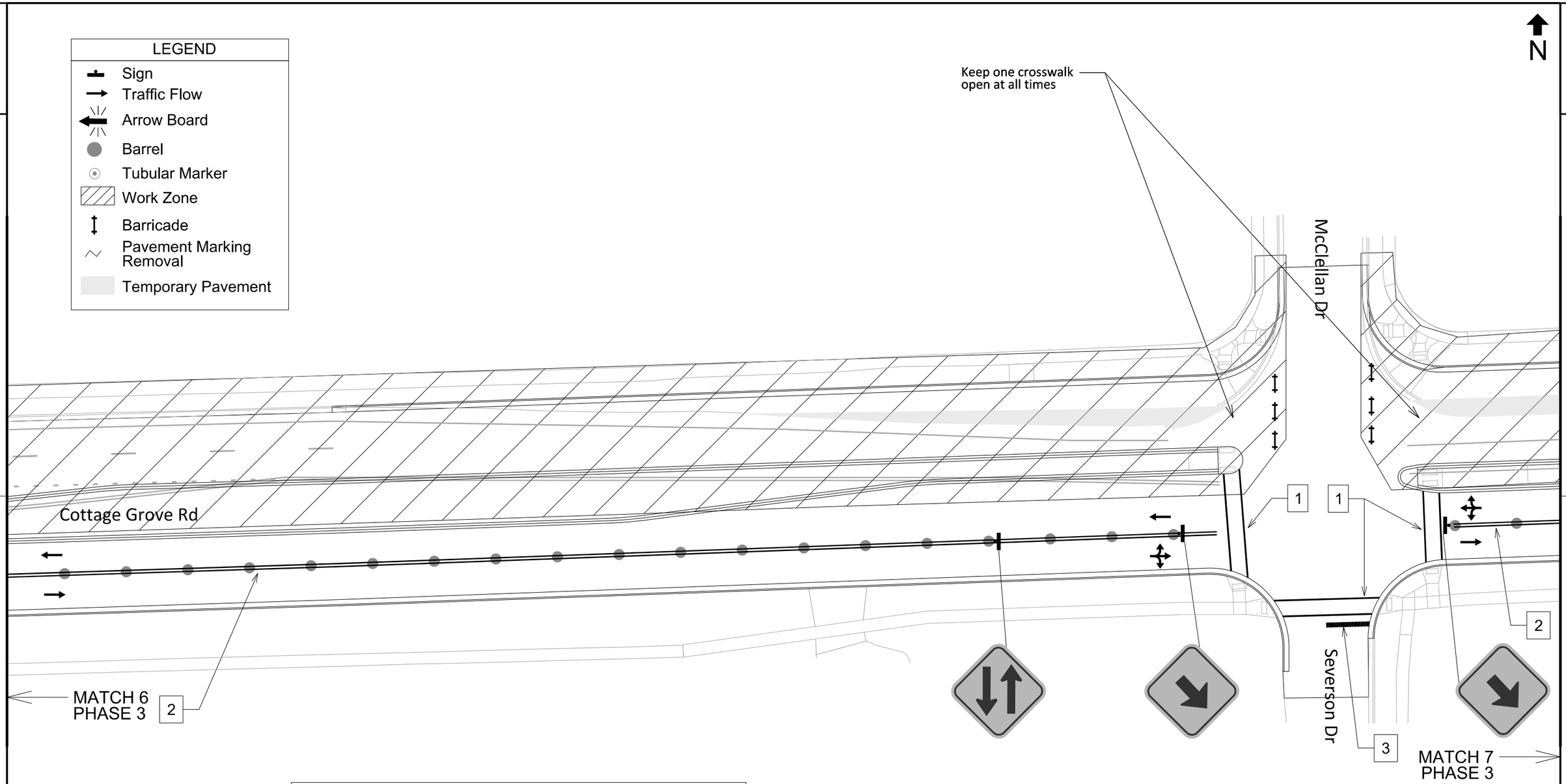
MATCH 5
PHASE 3

MATCH 6
PHASE 3

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 3 - COTTAGE GROVE RD.	SHEET E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

LEGEND
Sign
Traffic Flow
Arrow Board
Barrel
Tubular Marker
Work Zone
Barricade
Pavement Marking Removal
Temporary Pavement



TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 3 - COTTAGE GROVE RD.	SHEET 150 E

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

N

Cottage Grove Rd

2

MATCH 7
PHASE 3

MATCH 8
PHASE 3

LEGEND	
	Sign
	Traffic Flow
	Arrow Board
	Barrel
	Tubular Marker
	Work Zone
	Barricade
	Pavement Marking Removal
	Temporary Pavement

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 3 - COTTAGE GROVE RD.	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

LEGEND
Sign
Traffic Flow
Arrow Board
Barrel
Tubular Marker
Work Zone
Barricade
Pavement Marking Removal
Temporary Pavement

Relocate the ramp and use temporary pedestrian access materials in order to keep the crosswalk open

Sprecher Rd

Cottage Grove Rd

N

2

1

2

2

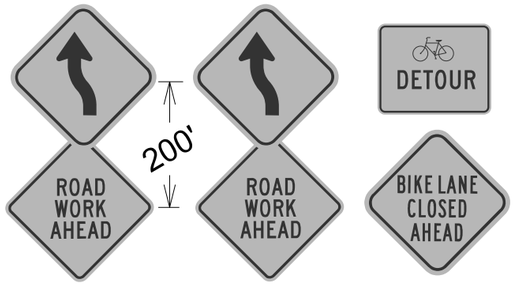
MATCH 8
PHASE 3

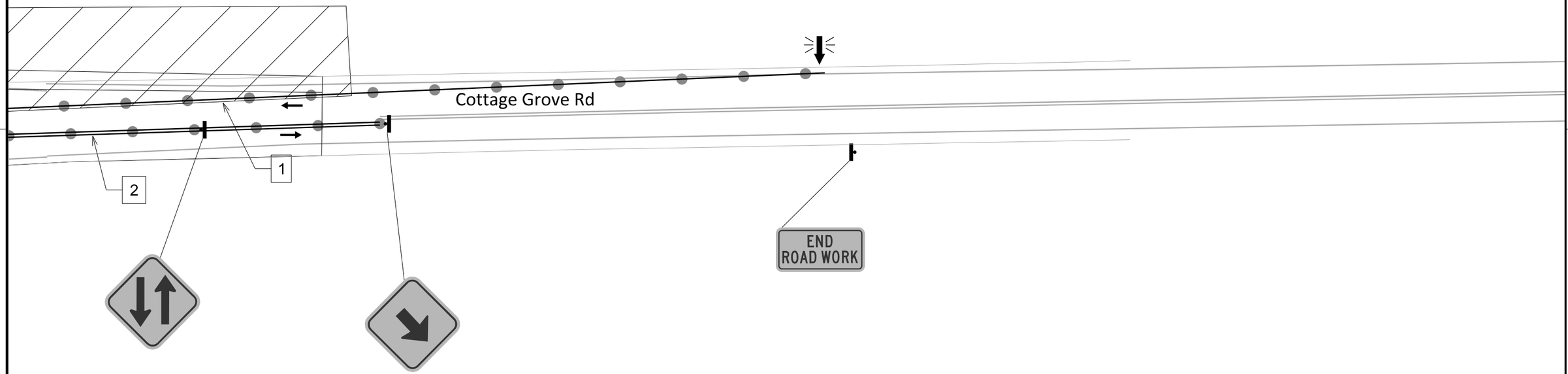
MATCH 9
PHASE 3

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

N

LEGEND
Sign
Traffic Flow
Arrow Board
Barrel
Tubular Marker
Work Zone
Barricade
Pavement Marking Removal
Temporary Pavement





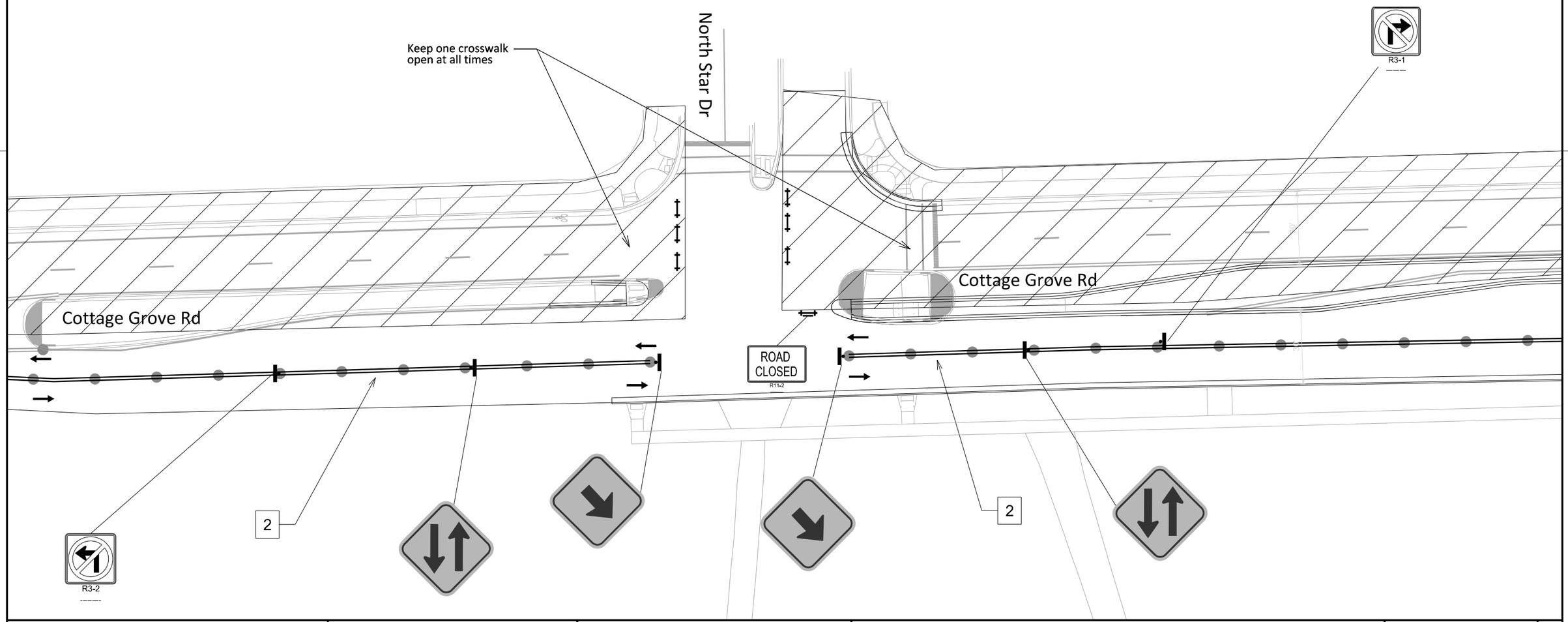
MATCH 9
PHASE 3

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND	
	Sign
	Traffic Flow
	Arrow Board
	Barrel
	Tubular Marker
	Work Zone
	Barricade
	Pavement Marking Removal
	Temporary Pavement

N

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 3A - COTTAGE GROVE RD.	SHEET 154 E

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

LEGEND

- Sign
- Traffic Flow
- Arrow Board
- Barrel
- Tubular Marker
- Work Zone
- Barricade
- Pavement Marking Removal
- Temporary Pavement

N

ROAD CLOSED AHEAD

ROAD CLOSED R11-2

SIDEWALK CLOSED

SIDEWALK CLOSED

Gemini Dr

ONLY

ROAD CLOSED R11-2

ve Rd

2

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 3B - COTTAGE GROVE RD.	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

TEMPORARY PAVEMENT MARKING LEGEND	
1	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE STOP LINE 18-INCH

ROAD CLOSED AHEAD

N

ROAD CLOSED R11-2

SIDEWALK CLOSED

SIDEWALK CLOSED

McClellan Dr

R3-1

Cottage Grove Rd

ROAD CLOSED R11-2

2

2

R3-2

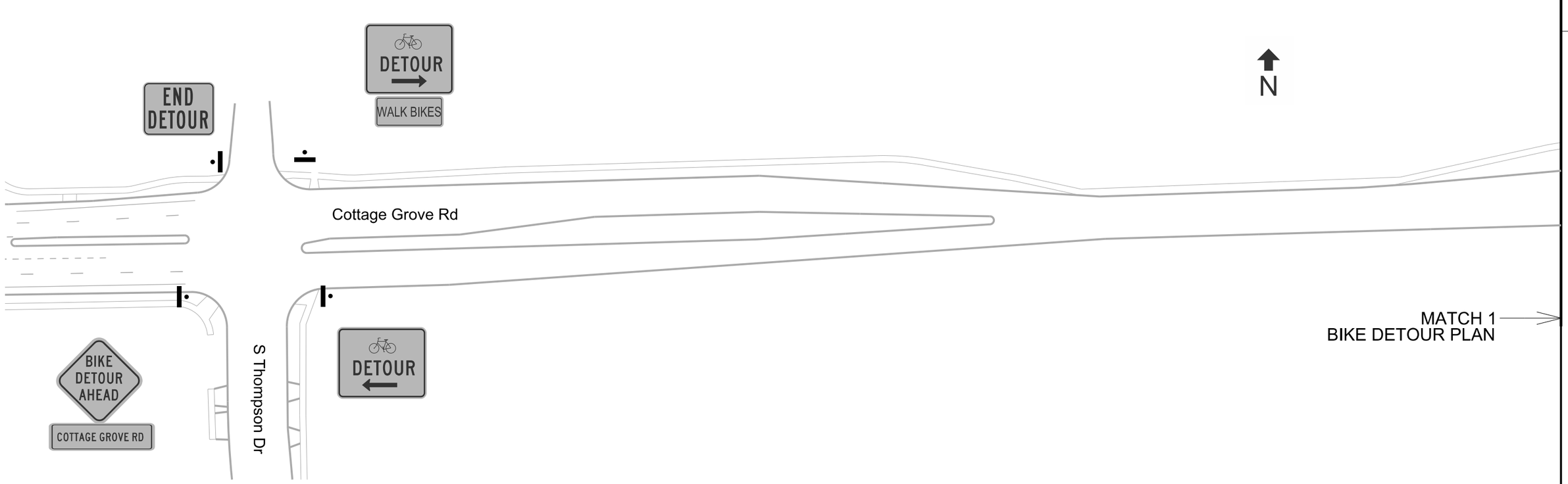
Severson Dr

ROAD CLOSED AHEAD

LEGEND
Sign
Traffic Flow
Arrow Board
Barrel
Tubular Marker
Work Zone
Barricade
Pavement Marking Removal
Temporary Pavement

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	TRAFFIC CONTROL STAGE 3C - COTTAGE GROVE RD.	SHEET 156 E

2



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	BICYCLE DETOUR PLAN - COTTAGE GROVE RD.	SHEET 157 E

2

2

DETOUR

MATCH 2
BIKE DETOUR PLAN

Sharpsburg Dr

DETOUR

Jupiter Dr

North Star Dr

DETOUR

N

DETOUR

WALK BIKES

DETOUR

Cottage Grove Rd

MATCH 1
BIKE DETOUR PLAN

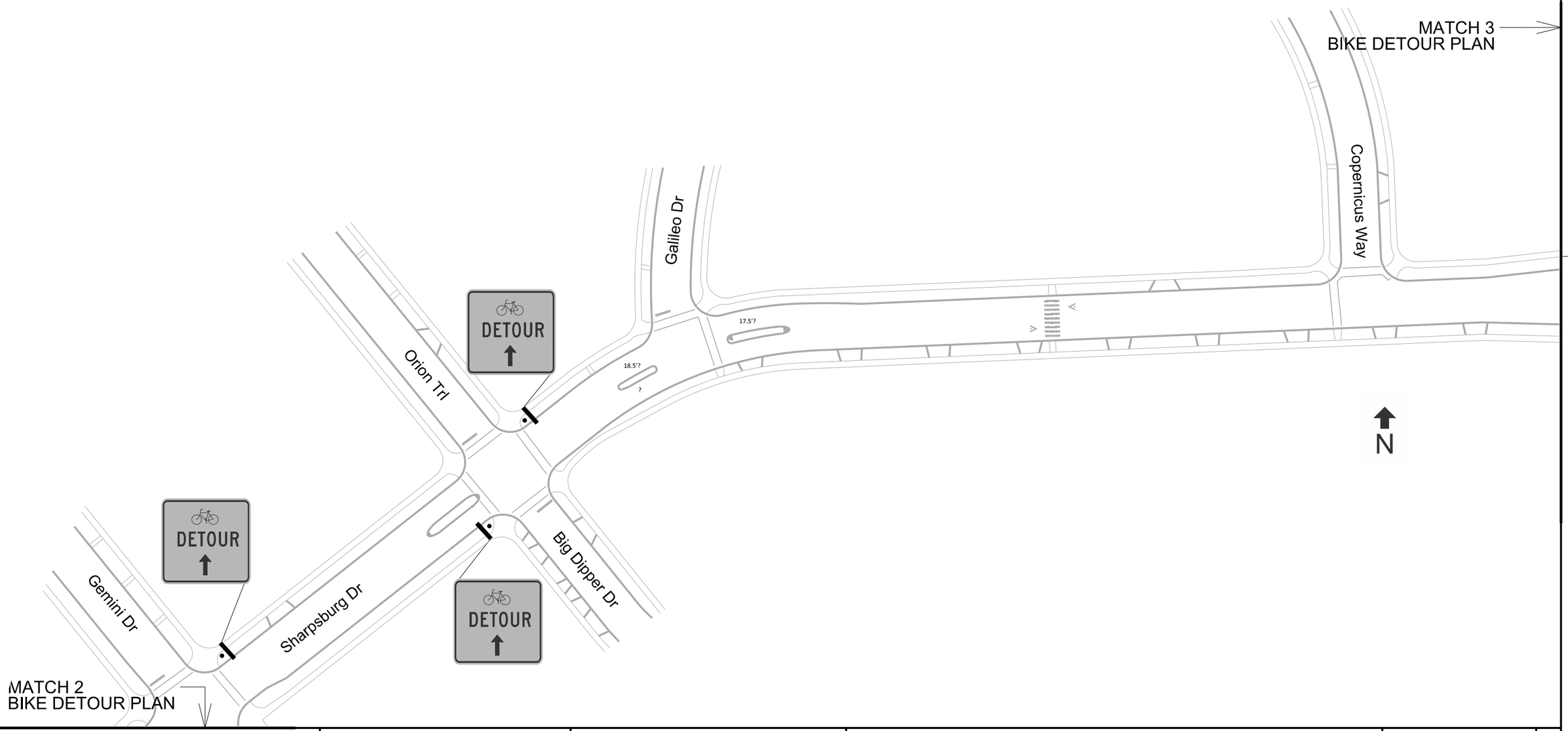
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	BICYCLE DETOUR PLAN - COTTAGE GROVE RD.	SHEET 158	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

MATCH 3
BIKE DETOUR PLAN



MATCH 2
BIKE DETOUR PLAN

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	BICYCLE DETOUR PLAN - COTTAGE GROVE RD.	SHEET 159 E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : _____ PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

MATCH 3
BIKE DETOUR PLAN

McLean Dr

Callisto Dr

Sharpsburg Dr

McClellan Dr

DETOUR

DETOUR

DETOUR

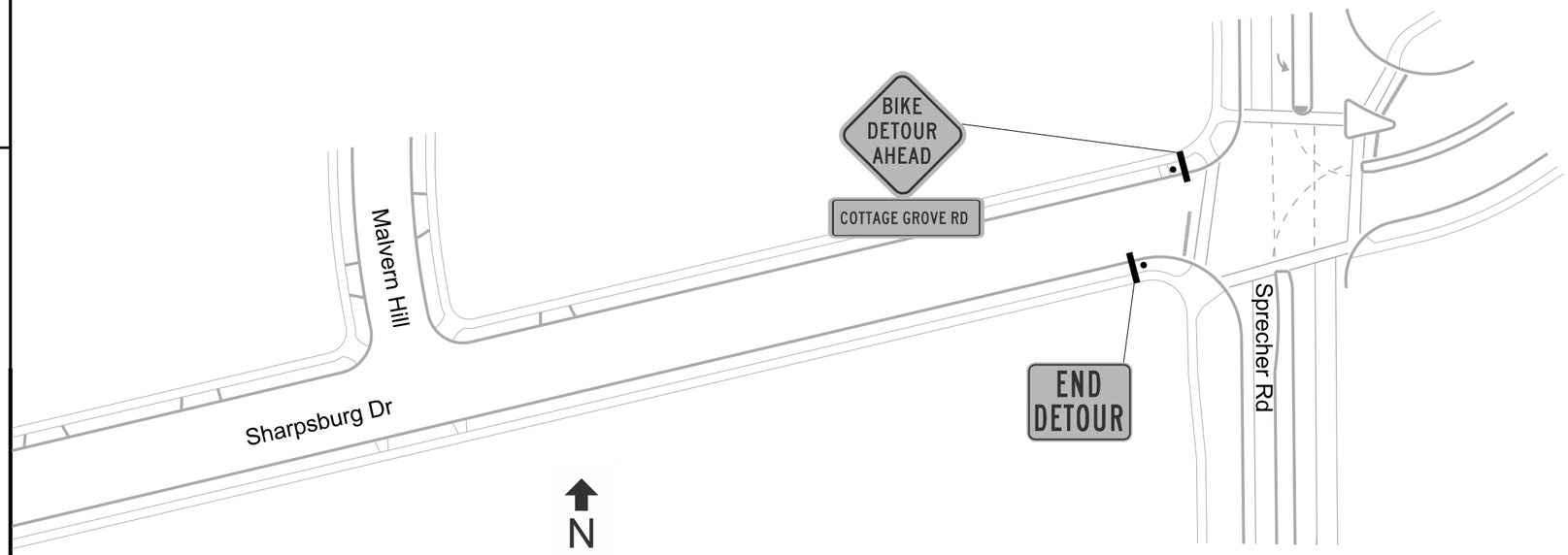
DETOUR

DETOUR

N

MATCH 4
BIKE DETOUR PLAN

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	BICYCLE DETOUR PLAN - COTTAGE GROVE RD.	SHEET 160 E



MATCH 4
BIKE DETOUR PLAN

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	BICYCLE DETOUR PLAN - COTTAGE GROVE RD.	SHEET 161 E

					5992-09-26	5992-09-27
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0002	201.0120	Clearing	ID	695.000	695.000	
0004	201.0220	Grubbing	ID	744.000	744.000	
0006	204.0115	Removing Asphaltic Surface Butt Joints	SY	225.000	225.000	
0008	204.0120	Removing Asphaltic Surface Milling	SY	5,210.000	4,560.000	650.000
0010	204.0150	Removing Curb & Gutter	LF	3,750.000	3,650.000	100.000
0012	204.0155	Removing Concrete Sidewalk	SY	1,182.000	1,170.000	12.000
0014	204.0170	Removing Fence	LF	42.000	42.000	
0016	204.0195	Removing Concrete Bases	EACH	15.000	15.000	
0018	204.0210	Removing Manholes	EACH	4.000	4.000	
0020	204.0220	Removing Inlets	EACH	16.000	16.000	
0022	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	245.000	245.000	
0024	204.0245	Removing Storm Sewer (size) 02. 15-Inch to 30-Inch	LF	874.000	874.000	
0026	204.0245	Removing Storm Sewer (size) 03. 19-Inch X 30-Inch	LF	254.000	254.000	
0028	204.0245	Removing Storm Sewer (size) 04. 24-Inch X 36-Inch	LF	40.000	40.000	
0030	204.0245	Removing Storm Sewer (size) 05. 42-Inch	LF	77.000	77.000	
0032	205.0100	Excavation Common	CY	27,667.000	27,667.000	
0034	205.0200	Excavation Rock	CY	102.000	102.000	
0036	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 5992-09-26	LS	1.000	1.000	
0038	213.0100	Finishing Roadway (project) 01. 5992-09-26	EACH	1.000	1.000	
0040	305.0110	Base Aggregate Dense 3/4-Inch	TON	580.000	580.000	
0042	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	14,030.000	14,030.000	
0044	305.0130	Base Aggregate Dense 3-Inch	TON	13,665.000	13,665.000	
0046	310.0110	Base Aggregate Open-Graded	TON	145.000	145.000	
0048	311.0110	Breaker Run	TON	5,600.000	5,600.000	
0050	325.0100	Pulverize and Relay	SY	1,345.000	1,345.000	
0052	416.0170	Concrete Driveway 7-Inch	SY	185.000	185.000	
0054	455.0605	Tack Coat	GAL	1,900.000	1,900.000	
0056	460.2000	Incentive Density HMA Pavement	DOL	5,870.000	5,870.000	
0058	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	1,900.000	1,900.000	
0060	460.6223	HMA Pavement 3 MT 58-28 S	TON	5,675.000	5,675.000	
0062	460.6224	HMA Pavement 4 MT 58-28 S	TON	3,575.000	3,495.000	80.000
0064	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	305.000	305.000	
0066	465.0125	Asphaltic Surface Temporary	TON	425.000	425.000	
0068	465.0315	Asphaltic Flumes	SY	12.000	12.000	
0070	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	2.000	2.000	
0072	522.1027	Apron Endwalls for Culvert Pipe Reinforced Concrete 27-Inch	EACH	2.000	2.000	
0074	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	1.000	1.000	

					5992-09-26	5992-09-27
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0076	601.0600	Concrete Curb Pedestrian	LF	20.000	20.000	
0078	602.0410	Concrete Sidewalk 5-Inch	SF	23,200.000	23,100.000	100.000
0080	602.0420	Concrete Sidewalk 7-Inch	SF	2,420.000	2,420.000	
0082	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	512.000	512.000	
0084	606.0200	Riprap Medium	CY	10.000	10.000	
0086	606.0300	Riprap Heavy	CY	19.000	19.000	
0088	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	1,005.000	1,005.000	
0090	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	300.000	300.000	
0092	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	330.000	330.000	
0094	608.0321	Storm Sewer Pipe Reinforced Concrete Class III 21-Inch	LF	637.000	637.000	
0096	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	152.000	152.000	
0098	608.0327	Storm Sewer Pipe Reinforced Concrete Class III 27-Inch	LF	344.000	344.000	
0100	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	428.000	428.000	
0102	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	277.000	277.000	
0104	608.0342	Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	LF	114.000	114.000	
0106	608.2334	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 34x53-Inch	LF	77.000	77.000	
0108	611.0420	Reconstructing Manholes	EACH	1.000	1.000	
0110	611.0624	Inlet Covers Type H	EACH	36.000	36.000	
0112	611.0639	Inlet Covers Type H-S	EACH	4.000	4.000	
0114	611.2033	Manholes 3x3-FT	EACH	8.000	8.000	
0116	611.2044	Manholes 4x4-FT	EACH	2.000	2.000	
0118	611.2055	Manholes 5x5-FT	EACH	3.000	3.000	
0120	611.2066	Manholes 6x6-FT	EACH	4.000	4.000	
0122	611.3230	Inlets 2x3-FT	EACH	29.000	29.000	
0124	611.8110	Adjusting Manhole Covers	EACH	5.000	5.000	
0126	611.8115	Adjusting Inlet Covers	EACH	5.000	5.000	
0128	611.9800.S	Pipe Grates 01. 27-Inch	EACH	2.000	2.000	
0130	611.9800.S	Pipe Grates 02. 42-Inch	EACH	1.000	1.000	
0132	612.0110	Pipe Underdrain 10-Inch	LF	105.000	105.000	
0134	612.0210	Pipe Underdrain Unperforated 10-Inch	LF	36.000	36.000	
0136	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	240.000	240.000	
0138	619.1000	Mobilization	EACH	1.000	1.000	

					5992-09-26	5992-09-27
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0140	620.0300	Concrete Median Sloped Nose	SF	930.000	930.000	
0142	621.1100	Landmark Reference Monuments and Cast Iron Covers	EACH	2.000	2.000	
0144	623.0200	Dust Control Surface Treatment	SY	49,172.000	49,172.000	
0146	624.0100	Water	MGAL	296.000	296.000	
0148	628.1504	Silt Fence	LF	270.000	270.000	
0150	628.1520	Silt Fence Maintenance	LF	270.000	270.000	
0152	628.1905	Mobilizations Erosion Control	EACH	10.000	10.000	
0154	628.1910	Mobilizations Emergency Erosion Control	EACH	12.000	12.000	
0156	628.2006	Erosion Mat Urban Class I Type A	SY	13,628.000	13,628.000	
0158	628.2027	Erosion Mat Class II Type C	SY	1,200.000	1,200.000	
0160	628.7005	Inlet Protection Type A	EACH	7.000	7.000	
0162	628.7015	Inlet Protection Type C	EACH	45.000	45.000	
0164	628.7020	Inlet Protection Type D	EACH	40.000	40.000	
0166	628.7504	Temporary Ditch Checks	LF	110.000	110.000	
0168	628.7560	Tracking Pads	EACH	13.000	13.000	
0170	628.7570	Rock Bags	EACH	23.000	23.000	
0172	629.0210	Fertilizer Type B	CWT	8.000	8.000	
0174	630.0140	Seeding Mixture No. 40	LB	237.000	237.000	
0176	630.0500	Seed Water	MGAL	592.000	592.000	
0178	637.2210	Signs Type II Reflective H	SF	592.690	592.690	
0180	642.5201	Field Office Type C	EACH	1.000	1.000	
0182	643.0300	Traffic Control Drums	DAY	108,080.000	108,080.000	
0184	643.0420	Traffic Control Barricades Type III	DAY	4,368.000	4,368.000	
0186	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	54.000	54.000	
0188	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	54.000	54.000	
0190	643.0705	Traffic Control Warning Lights Type A	DAY	45,318.000	45,318.000	
0192	643.0715	Traffic Control Warning Lights Type C	DAY	8,736.000	8,736.000	
0194	643.0800	Traffic Control Arrow Boards	DAY	356.000	356.000	
0196	643.0900	Traffic Control Signs	DAY	12,088.000	12,088.000	
0198	643.1050	Traffic Control Signs PCMS	DAY	49.000	49.000	
0200	643.5000	Traffic Control	EACH	1.000	1.000	
0202	644.1410	Temporary Pedestrian Surface Asphalt	SF	4,650.000	4,650.000	
0204	644.1601	Temporary Curb Ramp	DAY	168.000	168.000	
0206	644.1810	Temporary Pedestrian Barricade	LF	1,600.000	1,600.000	
0208	645.0140	Geotextile Type SAS	SY	6,280.000	6,280.000	
0210	646.1020	Marking Line Epoxy 4-Inch	LF	21,125.000	21,125.000	
0212	646.3020	Marking Line Epoxy 8-Inch	LF	2,751.000	2,751.000	
0214	646.5020	Marking Arrow Epoxy	EACH	22.000	22.000	
0216	646.5120	Marking Word Epoxy	EACH	9.000	9.000	
0218	646.5220	Marking Symbol Epoxy	EACH	13.000	13.000	

					5992-09-26	5992-09-27
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0220	646.6120	Marking Stop Line Epoxy 18-Inch	LF	288.000	288.000	
0222	646.7120	Marking Diagonal Epoxy 12-Inch	LF	179.000	179.000	
0224	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	1,553.000	1,553.000	
0226	646.9000	Marking Removal Line 4-Inch	LF	7,200.000	7,200.000	
0228	646.9100	Marking Removal Line 8-Inch	LF	5,930.000	5,930.000	
0230	646.9300	Marking Removal Special Marking	EACH	4.000	4.000	
0232	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	38,501.000	38,501.000	
0234	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	15.000	15.000	
0236	650.4000	Construction Staking Storm Sewer	EACH	52.000	52.000	
0238	650.4500	Construction Staking Subgrade	LF	7,040.000	7,040.000	
0240	650.5000	Construction Staking Base	LF	7,040.000	7,040.000	
0242	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	10,625.000	10,625.000	
0244	650.8500	Construction Staking Electrical Installations (project) 01. 5992-09-26	LS	1.000	1.000	
0246	650.9000	Construction Staking Curb Ramps	EACH	21.000	21.000	
0248	650.9910	Construction Staking Supplemental Control (project) 01. 5992-09-26	LS	1.000	1.000	
0250	650.9920	Construction Staking Slope Stakes	LF	2,080.000	2,080.000	
0252	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	3,384.000	3,384.000	
0254	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	2,769.000	2,769.000	
0256	652.0325	Conduit Rigid Nonmetallic Schedule 80 2-Inch	LF	855.000	855.000	
0258	652.0335	Conduit Rigid Nonmetallic Schedule 80 3-Inch	LF	2,056.000	2,056.000	
0260	652.0615	Conduit Special 3-Inch	LF	92.000	92.000	
0262	653.0905	Removing Pull Boxes	EACH	18.000	18.000	
0264	654.0110	Concrete Bases Type 10	EACH	1.000	1.000	
0266	655.0230	Cable Traffic Signal 5-14 AWG	LF	3,053.000	3,053.000	
0268	655.0240	Cable Traffic Signal 7-14 AWG	LF	901.000	901.000	
0270	655.0250	Cable Traffic Signal 9-14 AWG	LF	600.000	600.000	
0272	655.0260	Cable Traffic Signal 12-14 AWG	LF	325.000	325.000	
0274	655.0615	Electrical Wire Lighting 10 AWG	LF	4,387.000	4,387.000	
0276	655.0620	Electrical Wire Lighting 8 AWG	LF	3,357.000	3,357.000	
0278	655.0630	Electrical Wire Lighting 4 AWG	LF	10,071.000	10,071.000	
0280	655.0800	Loop Detector Wire	LF	8,594.000	8,594.000	
0282	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. Cottage Grove Rd - Sprecher Rd	LS	1.000	1.000	
0284	656.0200	Electrical Service Meter Breaker Pedestal (location) 02. Temporary Signals	LS	1.000	1.000	
0286	656.0200	Electrical Service Meter Breaker Pedestal (location) 03. Cottage Grove Rd - McLean Dr	LS	1.000	1.000	
0288	657.0100	Pedestal Bases	EACH	11.000	11.000	
0290	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	14.000	14.000	

					5992-09-26	5992-09-27
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0292	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	11.000	11.000	
0294	658.0500	Pedestrian Push Buttons	EACH	11.000	11.000	
0296	658.5069	Signal Mounting Hardware (location) 01. Cottage Grove Rd - North Star Dr	LS	1.000	1.000	
0298	658.5069	Signal Mounting Hardware (location) 02. Cottage Grove Rd - Sprecher Rd	LS	1.000	1.000	
0300	690.0150	Sawing Asphalt	LF	2,170.000	2,170.000	
0302	740.0440	Incentive IRI Ride	DOL	8,200.000	8,200.000	
0304	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	800.000	800.000	
0306	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	800.000	800.000	
0308	SPV.0035	Special 01. 3/8" Pea Gravel	CY	8.000	8.000	
0310	SPV.0035	Special 02. Engineered Soil	CY	242.000	242.000	
0312	SPV.0035	Special 03. Select Borrow - Clay	CY	317.000	317.000	
0314	SPV.0035	Special 04. Rock Excavation for Water Main	CY	50.000		50.000
0316	SPV.0060	Special 01. Erecting City-Owned Signs Type II	EACH	22.000	22.000	
0318	SPV.0060	Special 02. Precast Sign Post Base	EACH	54.000	54.000	
0320	SPV.0060	Special 03. Remove and Reinstall Mailbox	EACH	6.000	6.000	
0322	SPV.0060	Special 04. Remove and Reinstall Sign with Lighting	EACH	1.000	1.000	
0324	SPV.0060	Special 05. Root Pruning Existing Terrace Trees	EACH	5.000	5.000	
0326	SPV.0060	Special 06. Sign Post Base for Concrete Installation	EACH	18.000	18.000	
0328	SPV.0060	Special 07. 4' x 4' Storm Sewer Access Structure with Internal Weir	EACH	1.000	1.000	
0330	SPV.0060	Special 08. Fluid Thermal Backfill	EACH	1.000	1.000	
0332	SPV.0060	Special 09. Manhole Covers Type J Special	EACH	8.000	8.000	
0334	SPV.0060	Special 10. Storm Sewer Tap	EACH	1.000	1.000	
0336	SPV.0060	Special 11. Underdrain Cleanout	EACH	2.000	2.000	
0338	SPV.0060	Special 12. Utility Line Opening (ULO)	EACH	22.000	22.000	
0340	SPV.0060	Special 13. Traffic Signal Heads 16-Inch Pedestrian with Countdown	EACH	10.000	10.000	
0342	SPV.0060	Special 14. Backplates Signal Face, 3-Section 12-Inch	EACH	23.000	23.000	
0344	SPV.0060	Special 15. Backplates Signal Face, 4-Section 12-Inch	EACH	6.000	6.000	
0346	SPV.0060	Special 16. Backplates Signal Face, 5-Section 12-Inch	EACH	2.000	2.000	
0348	SPV.0060	Special 17. Concrete Base Offset	EACH	2.000	2.000	
0350	SPV.0060	Special 18. Concrete Base Type G	EACH	14.000	14.000	
0352	SPV.0060	Special 19. Electrical Pullbox Type I	EACH	28.000	28.000	
0354	SPV.0060	Special 20. Electrical Pullbox Type III	EACH	7.000	7.000	
0356	SPV.0060	Special 21. Electrical Pullbox Type V	EACH	10.000	10.000	
0358	SPV.0060	Special 22. Electrical Pullbox Type VII	EACH	3.000	3.000	
0360	SPV.0060	Special 23. Malfunction Management Unit (MMU)	EACH	2.000	2.000	
0362	SPV.0060	Special 24. Monotube Arm, 30-Foot	EACH	1.000	1.000	
0364	SPV.0060	Special 25. Monotube Pole, Type 9	EACH	1.000	1.000	

					5992-09-26	5992-09-27
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0366	SPV.0060	Special 26. Optical Signal Preempt	EACH	2.000	2.000	
0368	SPV.0060	Special 27. Pole 20-Foot, 7 Gauge	EACH	2.000	2.000	
0370	SPV.0060	Special 28. Traffic Signal Control Cabinet	EACH	2.000	2.000	
0372	SPV.0060	Special 29. Traffic Signal Controller	EACH	2.000	2.000	
0374	SPV.0060	Special 30. Traffic Signal Ethernet Switch	EACH	2.000	2.000	
0376	SPV.0060	Special 31. Traffic Signal Heads 12-Inch, 3-Section	EACH	23.000	23.000	
0378	SPV.0060	Special 32. Traffic Signal Heads 12-Inch, 4-Section	EACH	6.000	6.000	
0380	SPV.0060	Special 33. Traffic Signal Heads 12-Inch, 5-Section	EACH	2.000	2.000	
0382	SPV.0060	Special 34. Traffic Signal Removal	EACH	10.000	10.000	
0384	SPV.0060	Special 35. Traffic Signal Trombone Arm Aluminum 15-Foot	EACH	2.000	2.000	
0386	SPV.0060	Special 36. Traffic Signal Trombone Arm Aluminum 18-Foot	EACH	1.000	1.000	
0388	SPV.0060	Special 37. Traffic Signal Trombone Arm Aluminum 22-Foot	EACH	3.000	3.000	
0390	SPV.0060	Special 38. Transformer Base 16-Inch Steel	EACH	4.000	4.000	
0392	SPV.0060	Special 39. Concrete Base Type LB-8	EACH	3.000	3.000	
0394	SPV.0060	Special 40. Concrete Base Type P	EACH	1.000	1.000	
0396	SPV.0060	Special 41. LED Luminaire and Mounting Bracket Type I	EACH	1.000	1.000	
0398	SPV.0060	Special 42. LED Luminaire and Mounting Bracket Type II	EACH	31.000	31.000	
0400	SPV.0060	Special 43. LED Luminaire and Mounting Bracket Type III	EACH	17.000	17.000	
0402	SPV.0060	Special 44. Lighting Control Cabinet	EACH	1.000	1.000	
0404	SPV.0060	Special 45. Pole 30-Foot, 7 Gauge	EACH	3.000	3.000	
0406	SPV.0060	Special 46. Pole 30-Foot, 11 Gauge	EACH	15.000	15.000	
0408	SPV.0060	Special 47. Street Light Removal	EACH	2.000	2.000	
0410	SPV.0060	Special 48. Concrete Base Type LB-3	EACH	17.000	17.000	
0412	SPV.0060	Special 49. Concrete Base Type M	EACH	1.000	1.000	
0414	SPV.0060	Special 50. Adjust SAS Special	EACH	3.000	3.000	
0416	SPV.0060	Special 51. Adjust Water Valve Box Sections	EACH	36.000		36.000
0418	SPV.0060	Special 52. Cut-In Or Connect To Existing Water System	EACH	4.000		4.000
0420	SPV.0060	Special 53. Furnish & Install 12-Inch Valve	EACH	1.000		1.000
0422	SPV.0060	Special 54. Furnish & Install 16-Inch Valve	EACH	4.000		4.000
0424	SPV.0060	Special 55. Furnish & Install 1-Inch Service Laterals	EACH	7.000		7.000
0426	SPV.0060	Special 56. Furnish & Install 6-Inch Valve	EACH	7.000		7.000
0428	SPV.0060	Special 57. Furnish & Install 8-Inch Valve	EACH	4.000		4.000
0430	SPV.0060	Special 58. Furnish & Install Hydrant	EACH	6.000		6.000
0432	SPV.0060	Special 59. Furnish Excavation & Ditch For Live Tap	EACH	1.000		1.000
0434	SPV.0060	Special 60. Relocate Hydrant	EACH	3.000		3.000

					5992-09-26	5992-09-27
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0436	SPV.0060	Special 61. Utility Line Opening (ULO) Water Main	EACH	7.000		7.000
0438	SPV.0085	Special 01. Common Native Seed Mix	LB	4.500	4.500	
0440	SPV.0090	Special 01. Concrete Curb and Gutter 24-Inch Type D Special	LF	5,305.000	5,305.000	
0442	SPV.0090	Special 02. Concrete Curb and Gutter 30-Inch Type D Special	LF	5,205.000	5,105.000	100.000
0444	SPV.0090	Special 03. Concrete Curb and Gutter 30-Inch Type X Special	LF	195.000	195.000	
0446	SPV.0090	Special 04. Construction Staking Sidewalk	LF	3,735.000	3,735.000	
0448	SPV.0090	Special 05. Construction Staking Temporary Asphalt	LF	1,200.000	1,200.000	
0450	SPV.0090	Special 06. Reflective Sign Post	LF	716.000	716.000	
0452	SPV.0090	Special 07. Sign Post	LF	79.000	79.000	
0454	SPV.0090	Special 08. Tubular Sediment Control	LF	3,505.000	3,505.000	
0456	SPV.0090	Special 09. Fiber Optic Cable 144-Count	LF	4,823.000	4,823.000	
0458	SPV.0090	Special 10. Loop Detector Lead-In Cable Special	LF	3,681.000	3,681.000	
0460	SPV.0090	Special 11. Electrical Wire Lighting 14-3 Grounded	LF	630.000	630.000	
0462	SPV.0090	Special 12. Furnish & Install 2-In Foam Board Insulation	LF	136.000		136.000
0464	SPV.0090	Special 13. Furnish & Install 6-Inch Pipe & Fittings	LF	137.000		137.000
0466	SPV.0090	Special 14. Furnish & Install 8-Inch Pipe & Fittings	LF	376.000		376.000
0468	SPV.0090	Special 15. Furnish & Install 16-Inch Pipe & Fittings	LF	2,338.000		2,338.000
0470	SPV.0090	Special 16. Horizontal Directional Drill 20-Inch HDPE Pipe	LF	775.000		775.000
0472	SPV.0090	Special 17. Landscape Restoration for Water Main	LF	495.000		495.000
0474	SPV.0090	Special 18. Utility Trench Patch Type III	LF	225.000		225.000
0476	SPV.0090	Special 19. Utility Trench Patch Type IV	LF	100.000	50.000	50.000
0478	SPV.0105	Special 01. Construction Staking Pond	LS	1.000	1.000	
0480	SPV.0105	Special 02. Temporary Traffic Signals Cottage Grove Road - North Star Drive	LS	1.000	1.000	
0482	SPV.0105	Special 03. Temporary Traffic Signals Cottage Grove Road - Sprecher Road	LS	1.000	1.000	
0484	SPV.0105	Special 04. Temporary Street Lighting	LS	1.000	1.000	
0486	SPV.0105	Special 05. Construction Staking Water Main	LS	1.000		1.000
0488	SPV.0105	Special 06. Storm Control Plan and Implementation	LS	1.000	1.000	
0490	SPV.0165	Special 01. Monolithic Concrete Median	SF	100.000	100.000	
0492	SPV.0165	Special 02. Tied Concrete Block Mats	SF	1,351.000	1,351.000	
0494	SPV.0180	Special 01. Removal of Buried Asphalt Parking Lot	SY	300.000	300.000	
0496	SPV.0180	Special 02. Topsoil Special	SY	13,628.000	13,628.000	
0498	SPV.0195	Special 01. Disposal of Contaminated Soil	TON	160.000	160.000	
0500	SPV.0195	Special 02. Sand	TON	170.000	170.000	

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SAWCUTTING

CATEGORY	STATION	STATION	LOCATION	690.0150 SAWING ASPHALT LF
COTTAGE GROVE RD, EASTBOUND LOCATIONS				
0010	82+83	85+50	COTTAGE GROVE RD	295
	88+45	88+60	ASPHALT DRIVEWAY	15
	102+20	102+85	MCCLEAN DR	50
	110+63	110+98	SEVERSON DR	35
	114+75	115+25	ASPHALT DRIVEWAY	60
	118+25	--	ASPHALT DRIVEWAY	25
	119+50	--	ASPHALT DRIVEWAY	35
	121+06	121+46	SPRECHER RD	165
	122+07	--	COTTAGE GROVE RD	25
COTTAGE GROVE RD, WESTBOUND LOCATIONS				
0010	20+70	26+49	COTTAGE GROVE RD	580
	29+63	30+31	COTTAGE GROVE RD	70
	32+46	33+19	COTTAGE GROVE RD	75
	36+18	--	COTTAGE GROVE RD	30
	36+49	37+41	MCCLEAN DR	100
	45+13	45+45	MCCLELLAN DR	35
	50+50	--	ASPHALT DRIVEWAY	20
	55+61	56+12	SPRECHER RD	160
	56+50	60+10	COTTAGE GROVE RD	395
			PROJECT TOTALS	2170

204.0120 REMOVING ASPHALTIC SURFACE MILLING**

CATEGORY	STATION - STATION	LOCATION	SY
0010	81+62 - 85+50	COTTAGE GROVE RD, EB	1140
	16+05 - 26+49	COTTAGE GROVE RD, WB	3420
		PROJECT TOTAL	4560

325.0100 PULVERIZE AND RELAY

CATEGORY	STATION - STATION	LOCATION	SY
0010	122+07 - 125+67	COTTAGE GROVE RD, EB	675
	56+50 - 60+10	COTTAGE GROVE RD, WB	670
		PROJECT TOTAL	1345

** ITEM IS ALSO FOUND ELSEWHERE IN THE TABLES

REMOVING CONCRETE SIDEWALK**

CATEGORY	STATION - STATION	LOCATION	204.0155 SY
0010	TRAFFIC CONTROL STAGE 2 (COTTAGE GROVE RD EB)		
	81+62 - 91+75	RT	20
	81+62 - 91+75	LT	75
	91+75 - 102+50	RT	45
	91+75 - 102+50	LT	160
	102+50 - 110+75	RT	70
	102+50 - 110+75	LT	20
	110+75 - 125+67	RT	290
	110+75 - 125+67	LT	0
	TRAFFIC CONTROL STAGE 3 (COTTAGE GROVE RD WB)		
	16+05 - 26+00	LT	85
	26+00 - 37+00	LT	15
	37+00 - 45+25	LT	35
	45+25 - 60+10	LT	275
	UNDISTRIBUTED, PROJECT	--	80
		PROJECT TOTAL	1170

NOTEs: QUANTITIES INCLUDE CONCRETE REMOVAL FOR UTILITY CONSTRUCTION

** ITEM IS ALSO FOUND ELSEWHERE IN TABLES

REMOVING CURB & GUTTER**

CATEGORY	STATION - STATION	LOCATION	204.0150 LF
0010	TRAFFIC CONTROL STAGE 1		155
	TRAFFIC CONTROL STAGE 2 (COTTAGE GROVE RD EB)		
	81+62 - 91+75	LT	155
	81+62 - 91+75	RT	230
	91+75 - 102+50	LT	995
	91+75 - 102+50	RT	85
	102+50 - 110+75	LT	85
	102+50 - 110+75	RT	845
	110+75 - 125+67	LT	0
	110+75 - 125+67	RT	365
	TRAFFIC CONTROL STAGE 3 (COTTAGE GROVE RD WB)		
	16+05 - 26+00	LT	55
	16+05 - 26+00	RT	130
	26+00 - 37+00	LT	0
	26+00 - 37+00	RT	70
	37+00 - 45+25	LT	100
	37+00 - 45+25	RT	80
	45+25 - 60+10	LT	300
	45+25 - 60+10	RT	0
		PROJECT TOTAL	3650

CONSTRUCTION STAKING

CATEGORY	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.8500 ELECTRICAL INSTALLATIONS LUMP	650.9910 SUPPLEMENTAL CONTROL LUMP	650.9920 SLOPE STAKES LF
0010	STAGE 2					
	COTTAGE GROVE RD	3930	3930	--	--	1150
	SIDEROADS	510	510	--	--	0
	STAGE 2 TOTAL	4440	4440	--	--	1150
0010	STAGE 3					
	COTTAGE GROVE RD	2400	2400	--	--	930
	SIDEROADS	200	200	--	--	0
	STAGE 3 TOTAL	2600	2600			930
	PROJECT TOTALS	7040	7040	1	1	2080

NOTE: SEE MISCELLANEOUS QUANTITIES FOR CURB & GUTTER, SIDEWALK, STORM SEWER, AND WATER FOR ADDITIONAL CONSTRUCTION STAKING QUANTITITES

TREE REMOVAL

CATEGORY	STATION	LOCATION	201.0120 CLEARING IN DIA	201.0220 GRUBBING IN DIA	SPV.0060.05 ROOT PRUNING EXISTING TREES EACH
0010	86+33 - 87+23	RT	270	270	--
	94+68	RT	6	6	--
	95+47	RT	6	6	--
	95+88	RT	27	27	--
	96+47	RT	36	36	--
	97+15	RT	6	6	--
	98+37	RT	12	12	--
	98+53	RT	20	20	--
	98+69	RT	14	14	--
	98+79	RT	14	14	--
	108+18	LT	18	18	--
	117+79	RT	10	10	--
	117+89	RT	10	10	--
	118+00	RT	10	10	--
	118+10	RT	10	10	--
	119+60-119+67	RT	36	36	--
0010	UNDISTRIBUTED	PROJECT	30	30	5
	SUBOTOTAL FOR CATEGORY		535	535	5
0020	121+75-122+50 (POND)	RT	160	209	--
	PROJECT TOTALS		695	744	5

NOTE: LOCATIONS CALLED OUT ARE BOTH ON EASTBOUND & WESTBOUND COTTAGE GROVE RD

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TEMPORARY PEDESTRIAN ACCESS ITEMS

CATEGORY	LOCATION (INTERSECTION)	644.1410 TEMPORARY PEDESTRIAN SURFACE ASPHALT SF	644.1601 TEMPORARY CURB RAMP DAY	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF
0010	COTTAGE GROVE RD, EASTBOUND, STAGE 2			
	NORTH STAR	500	14	130
	GEMINI	--	--	--
	MCCLEAN	800	28	320
	SEVERSON/MCCLELLAN	400	14	120
	SPRECHER	400	14	150
	STAGE 2 - SUBTOTALS	2100	70	720
0010	COTTAGE GROVE RD, EASTBOUND, STAGE 2			
	NORTH STAR	650	28	200
	GEMINI	400	--	160
	MCCLEAN	500	28	160
	SEVERSON/MCCLELLAN	600	28	240
	SPRECHER	400	14	120
	STAGE 3 - SUBTOTALS	2550	98	880
	PROJECT TOTALS	4650	168	1600

CONCRETE DRIVEWAY 7-INCH

CATEOGRY	STATION	LOCATION	416.0170 SY
0010	COTTAGE GROVE RD, EASTBOUND		
	86+90	RT	35
	108+85	RT	35
	114+90	RT	35
	117+55	RT	20
	118+30	RT	25
	119+45	RT	20
	COTTAGE GROVE RD, WESTBOUND		
	50+45	LT	15
	PROJECT TOTAL		185

CONCRETE MEDIAN

CATEGORY	STATION	LOCATION	CONCRETE MEDIAN SLOPED NOSE 620.0300 SF	MONOLITHIC CONCRETE MEDIAN SPV.0165.01 SF
0010	COTTAGE GROVE ROAD, EASTBOUND			
	81+62 - 91+75	LT	220	--
	91+75 - 102+50	LT	300	100
	102+50 - 110+75	LT	210	--
	110+75 - 125+67	LT	200	--
	PROJECT TOTALS		930	100

ASPHALTIC SURFACE TEMPORARY

CATEGORY	TRAFFIC CONTROL STAGE	STATION-STATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	465.0125 ASPHALTIC SURFACE TEMPORARY TON	SPV.0090.05 CONSTRUCTION STAKING TMPORARY ASPHALT LF	REMARKS
0010	STAGE 1	42+90-55+50	--	340	1200	TEMPORARY PAVEMENT
	STAGE 2	81+62-122+06 (EB)	--	20	--	TEMPORARY WEDGING AT MANHOLES & RAMPS
	STAGE 3	26+50-56+50 (WB)	--	15	--	TEMPORARY WEDGING AT MANHOLES & RAMPS
	STAGE 4	PROJECT	175	--	--	TEMPORARY WEDGING AT MANHOLES & RAMPS
		UNDISTRIBUTED	50	50	--	TEMPORARY PAVEMENT
	PROJECT TOTALS		225	425	1200	

3

CONCRETE SIDEWALK

CATEGORY	STATION - STATION	LOCATION	** 602.0410 5-INCH SF	602.0420 7-INCH SF	SPV.0090.04 CONSTRUCTION STAKING SIDEWALK LF
0010	COTTAGE GROVE ROAD, EASTBOUND				
	81+62 - 91+75	LT	700	60	90
	81+62 - 91+75	RT	2750	270	535
	91+75 - 102+50	LT	1000	--	205
	91+75 - 102+50	RT	4700	175	810
	102+50 - 110+75	LT	225	80	35
	102+50 - 110+75	RT	1600	370	230
	110+75 - 125+67	LT	1850	75	370
	110+75 - 125+67	RT	4800	170	920
	COTTAGE GROVE ROAD, WESTBOUND				
	16+05 - 26+00	LT	525	270	--
	26+00 - 37+00	LT	--	190	--
	37+00 - 45+25	LT	125	230	--
	45+25 - 60+10	LT	3625	230	540
	UNDISTRIBUTED, PROJECT	--	1200	300	--
	PROJECT TOTALS		23100	2420	3735

NOTE: QUANTITIES INCLUDE SIDEWALK REPLACEMENT FOR UTILITY CONSTRUCTION

** ITEM IS ALSO FOUND ELSEWHERE IN TABLES

CONCRETE CURB & GUTTER

CATEGORY	STATION - STATION	LOCATION	SPV.0090.01 24-INCH TYPE D SPECIAL LF	** SPV.0090.02 30-INCH TYPE D SPECIAL LF	SPV.0090.03 30-INCH TYPE X SPECIAL LF	601.0600 PEDESTRIAN LF	650.5500 CONSTRUCTION STAKING CURB GUTTER LF
0010	COTTAGE GROVE ROAD, EASTBOUND						
	81+62 - 91+75	LT	420	--	--	--	420
	81+62 - 91+75	RT	--	540	--	--	540
	91+75 - 102+50	LT	1070	--	--	--	1070
	91+75 - 102+50	RT	10	1050	15	--	1075
	102+50 - 110+75	LT	755	--	--	--	755
	102+50 - 110+75	RT	10	835	--	--	845
	110+75 - 125+67	LT	920	--	--	--	920
	110+75 - 125+67	RT	--	1120	80	--	1200
	COTTAGE GROVE ROAD, WESTBOUND						
	16+05 - 26+00	LT	--	35	20	--	55
	16+05 - 26+00	RT	400	--	--	--	400
	26+00 - 37+00	LT	--	--	--	--	0
	26+00 - 37+00	RT	45	--	--	--	45
	37+00 - 45+25	LT	--	415	--	--	415
	37+00 - 45+25	RT	750	--	--	--	750
	45+25 - 60+10	LT	--	1110	80	20	1210
	45+25 - 60+10	RT	925	--	--	--	925
	PROJECT TOTALS		5305	5105	195	20	10625

** ITEM IS ALSO FOUND ELSEWHERE IN TABLES

CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA

CATEGORY	STATION - STATION	LOCATION	602.0515 SF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH
0010	86+25 - 87+75	NORTH STAR INT.	112	4
	91+00 - 92+25	GEMINI INT.	64	2
	102+00 - 103+25	MCCLEAN INT.	148	4
	110+25 - 111+50	SEVERSON/MCCLELLAN INT.	128	8
	120+75 - 121+75	SPRECHER INT.	60	3
	PROJECT TOTAL		512	21

BASE AGGREGATE

CATEGORY	STATION	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0130 BASE AGGREGATE DENSE 3-INCH TON	310.0110 BASE AGGREGATE OPEN-GRADED TON	311.0110 BREAKER RUN TON	624.0100 WATER MGAL	645.0140 GEOTEXTILE TYPE SAS SY
0010	COTTAGE GROVE ROAD, EASTBOUND, STAGE 2									
	81+62	91+75	COTTAGE GROVE RD	--	1500	1500	--	--	30	--
			SIDEWALK/DRIVEWAY	60	235	--	--	--	3	--
			SHOULDER	60	--	--	--	--	1	--
			SIDE ROADS	--	--	--	--	--	0	--
	91+75	102+50	COTTAGE GROVE RD	--	2550	2550	--	--	51	--
			SIDEWALK/DRIVEWAY	100	--	--	--	--	1	--
			SIDE ROADS	--	75	75	--	--	2	--
	102+50	110+75	COTTAGE GROVE RD	--	1640	1640	--	--	33	--
			SIDEWALK/DRIVEWAY	35	20	--	--	--	1	--
			SIDE ROADS	--	160	160	--	--	3	--
	110+75	125+67	COTTAGE GROVE RD	--	2270	2270	65	--	45	--
			SIDEWALK/DRIVEWAY	100	85	--	--	--	2	--
			SIDE ROADS	--	285	285	--	--	6	--
0020			POND	55	285	285	--	--	6	80
			UNDISTRIBUTED FOR STAGE	--	--	--	--	3600	8	4000
			STAGE 2 SUBTOTALS	410	9105	8765	65	3600	191	4080
0010	COTTAGE GROVE ROAD, WESTBOUND, STAGE 3									
	16+05	26+00	COTTAGE GROVE RD	--	240	240	--	--	5	--
			SIDEWALK/DRIVEWAY	10	--	--	--	--	0	--
			SIDE ROADS	--	--	--	--	--	0	--
	26+00	37+00	COTTAGE GROVE RD	--	180	180	--	--	4	--
			SIDEWALK/DRIVEWAY	10	--	--	--	--	0	--
			SIDE ROADS	--	--	--	--	--	0	--
	37+00	45+25	COTTAGE GROVE RD	--	1590	1590	--	--	32	--
			SIDEWALK/DRIVEWAY	10	--	--	--	--	0	--
			SIDE ROADS	--	55	55	--	--	1	--
	45+25	60+10	COTTAGE GROVE RD	--	2535	2535	40	--	51	--
			SIDEWALK/DRIVEWAY	80	25	--	--	--	1	--
			SHOULDER	60	--	--	--	--	1	--
			SIDE ROADS	--	300	300	40	--	6	--
			UNDISTRIBUTED FOR STAGE	--	--	--	--	2000	5	2200
			STAGE 3 SUBTOTALS	170	4925	4900	80	2000	105	2200
			UNDISTRIBUTED FOR DUST CONTROL - PROJECT	--	--	--	--	--	60	--
			PROJECT TOTALS	580	14030	13665	145	5600	296	6280

ASPHALT

CATEGORY	STATION	STATION	LOCATION	455.0605 TACK COAT GAL	460.4110.S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS LF	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	** 460.6224 HMA PAVEMENT 4 MT 58-28 S TON	465.0315 ASPHALTIC FLUME SY	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
0010	COTTAGE GROVE ROAD, EASTBOUND, STAGE 2								
	81+62	91+75	COTTAGE GROVE RD	--	--	620	--	--	--
			SIDE ROADS	--	--	--	--	--	--
			DRIVEWAYS	--	--	--	--	--	125
		86+25, RT	FLUME	--	--	--	--	12	125
	91+75	102+50	COTTAGE GROVE RD	--	--	1095	--	--	--
			SIDE ROADS	--	--	40	--	--	--
			DRIVEWAYS	--	--	--	--	--	--
	102+50	110+75	COTTAGE GROVE RD	--	--	675	--	--	--
			SIDE ROADS	--	--	75	--	--	--
			DRIVEWAYS	--	--	--	--	--	5
	110+75	125+67	COTTAGE GROVE RD	--	--	935	--	--	--
			SIDE ROADS	--	--	130	--	--	--
			DRIVEWAYS	--	--	--	--	--	35
			STAGE 2 SUBTOTALS	0	0	3570	0	12	290
0010	COTTAGE GROVE ROAD, WESTBOUND, STAGE 3								
	16+05	26+00	COTTAGE GROVE RD	--	270	85	--	--	--
			SIDE ROADS	--	--	--	--	--	--
			DRIVEWAYS	--	--	--	--	--	--
	26+00	37+00	COTTAGE GROVE RD	--	90	85	--	--	--
			SIDE ROADS	--	--	--	--	--	--
			DRIVEWAYS	--	--	--	--	--	--
	37+00	45+25	COTTAGE GROVE RD	--	320	700	--	--	--
			SIDE ROADS	--	--	25	--	--	--
			DRIVEWAYS	--	--	--	--	--	--
	45+25	60+10	COTTAGE GROVE RD	--	660	1075	--	--	--
			SIDE ROADS	--	--	135	--	--	--
			DRIVEWAYS	--	--	--	--	--	15
			STAGE 3 SUBTOTALS	0	1340	2105	0	0	15
0010	COTTAGE GROVE ROAD, STAGE 4								
	81+62	125+75	COTTAGE GROVE RD WB	750	--	--	1370	--	--
	16+05	60+10	COTTAGE GROVE RD EB	1020	460	--	1880	--	--
			SIDE ROADS	130	100	--	245	--	--
			STAGE 4 SUBTOTALS	1900	560	0	3495	0	0
			PROJECT TOTALS	1900	1900	5675	3495	12	305

** ITEM IS ALSO FOUND ELSEWHERE IN TABLES

EARTHWORK SUMMARY (205.0100 EXCAVATION COMMON)

CATEGORY	TRAFFIC CONTROL STAGE	STATION - STATION	CUT FACT	CUT VOLUME (cu yd)	CUT ADJUSTED (cu yd)	FILL FACT	FILL VOLUME (cu yd)	FILL ADJUSTED (cu yd)	MASS ORD. (cu yd)
0010	STAGE 1 (WESTBOUND)	43+00 - 55+25	1.0	418	418	1.2	0	0	418
	STAGE 2 (EASTBOUND)	82+85 - 122+00	1.0	15332	15332	1.2	1931	2317	13015
	STAGE 3 (WESTBOUND)	16+05 - 66+00	1.0	7767	7767	1.2	59	71	7696
	TOPSOIL REMOVAL - STAGE 2 (UNDISTRIBUTED)	EASTBOUND	1.0	482	482	1.2	0	0	482
	TOPSOIL REMOVAL - STAGE 3 (UNDISTRIBUTED)	WESTBOUND	1.0	226	226	1.2	0	0	226
	EBS - STAGE 2 (UNDISTRIBUTED)	EASTBOUND	1.0	1500	1500	1.2	0	0	1500
	EBS - STAGE 3 (UNDISTRIBUTED)	WESTBOUND	1.0	910	910	1.2	0	0	910
0020	STAGE 2 (EASTBOUND)	WESTBOUND	1.0	1032	1032	1.2	0	0	1032
		PROJECT TOTALS	--	27667	27667	--	1990	2388	25279
		PLAN QUANTITY EXCAVATION (PROJECT TOTAL LESS EBS)	--	--	25257	--	--	--	--

NOTE: REFER TO EARTHWORK DATA SHEETS WIHTIN THE PLANS FOR ADDITIONAL INFORMATION

MISCELLANEOUS ITEMS

CATEGORY	STATION*	LOCATION	204.0170 REMOVING FENCE LF	SPV.0060.03 REMOVE AND REINSTALL MAILBOX EACH	SPV.0060.04 REMOVE AND REINSTALL SIGN WITH LIGHTING EACH
0010	50+28	LT	--	1	--
	83+97	RT	--	1	--
	88+54**	RT	--	--	1
	108+68	RT	--	1	--
	114+70	RT	12	--	--
	115+05	RT	10	--	--
	117+33	RT	--	1	--
	118+45	RT	--	1	--
	119+59	RT	--	1	--
	SUBTOTAL FOR CATEGORY		22	6	1
0020	122+25	RT	20	--	--
	PROJECT TOTALS		42	6	1

NOTES:
*REINSTALL MAILBOXES ADJACENT TO NEW CURB AND DRIVEWAY APRON, NOT AT EXISTING LOCATION
**LOCATION TO REINSTALL SIGN WITH LIGHTING IS STATION 87+12

LANDMARK REFERENCE MONUMENTS AND CAST IRON COVERS

CATEGORY	STATION	LOCATION	621.1100 EACH
0010	94+88	LT	1
	121+58	LT	1
	PROJECT TOTALS		2

STORM SEWER STRUCTURES

CATEGORY	STRUCTURE I.D.	STATION	LOCATION	(522.1018) APRON ENDWALL 18" RCP EACH	(522.1027) APRON ENDWALL 27" RCP EACH	(522.1042) APRON ENDWALL 42" RCP EACH	(611.0420) RECONSTRUCTING MANHOLES EACH	(611.0624) INLET COVERS TYPE H EACH	(611.0639) INLET COVERS TYPE H-S EACH	(611.2033) MANHOLES 3X3-FT EACH	(611.2044) MANHOLES 4X4-FT EACH	(611.2055) MANHOLES 5X5-FT EACH	(611.2066) MANHOLES 6X6-FT EACH	(611.3230) INLETS 2X3-FT EACH	(611.8110) ADJUSTING MANHOLE COVERS EACH	(611.8115) ADJUSTING INLET COVERS EACH	(611.9800.S.27") PIPE GRATES 27" EACH	(611.9800.S.42") PIPE GRATES 42" EACH	(650.4000) CONSTRUCTION STAKING STORM SEWER EACH	(SPV.0060.07) 4' X 4' S.A.S. WITH INTERNAL WEIR SPECIAL EACH	(SPV.0060.09) MANHOLE COVERS TYPE J SPECIAL EACH	(SPV.0060.10) STORM SEWER TAP EACH	TOP OF CASTING ELEVATION
0020	1.0	121+98.85	RT-68.76	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-
	2.0	121+97.45	LT-45.25	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	1	-	-	-	962.69
	3.0	121+60.92	LT-64.00	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	1	-	962.21
	3.1	121+68.04	LT-74.72	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	962.06
	4.0	121+24.95	LT-65.22	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	1	-	962.35
	4.1	121+08.69	LT-90.92	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	962.23
	5.0	120+68.61	LT-11.00	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	1	-	-	-	964.59
	5.1	120+68.07	LT-18.30	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	964.16
	5.2	120+76.37	LT-47.87	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	964.20
	6.0	120+42.91	RT-6.00	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	1	-	963.97
	7.0	118+74.95	RT-5.45	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	1	-	965.17
	8.0	117+32.44	LT-1.00	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	968.54
	8.1	117+33.10	LT-17.25	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	870.88
	8.2	117+34.44	LT-46.75	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	970.40
	8.3	117+27.51	RT-28.50	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	968.25
	9.0	114+47.25	LT-1.00	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	977.84
	9.1	114+43.85	LT-12.90	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	978.00
	9.2	114+25.96	LT-50.00	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	978.57
	9.3	114+46.45	RT-28.50	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	977.00
	10.0	111+46.29	LT-1.00	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	1	-	-	-	991.34
	10.1	111+04.74	LT-56.30	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	1	-	991.92
	10.2	111+02.93	LT-91.21	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	1	-	-	-	992.64
	10.3	110+68.23	LT-90.50	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	992.55
	11.0	110+23.54	LT-12.00	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	1	-	-	-	995.29
	11.1	110+20.70	LT-21.00	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	995.68
	11.2	110+20.70	LT-50.50	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	995.08
	11.3	110+23.54	RT-28.50	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	994.20
	12.0	108+54.92	LT-6.09	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	1	-	-	-	997.87
	12.1	108+51.77	RT-28.50	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	997.06
	13.0	107+88.64	LT-1.00	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	1	-	-	-	998.29
	13.1	107+88.78	LT-21.00	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	998.34
	13.2	107+81.94	LT-50.50	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	997.75
	14.0	104+88.78	LT-1.00	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	1	-	-	-	1000.09
	14.1	104+88.90	RT-28.50	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	999.49
	15.0	101+85.97	CL	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	1	-	1002.00
	15.1	101+84.47	RT-28.50	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1001.85
	16.0	99+64.38	RT-5.50	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	1	-	-	-	1005.85
	16.1	99+63.25	RT-28.50	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1005.44
	17.0	98+55.00	LT-1.00	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1007.90
	18.0	95+55.00	LT-1.00	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1014.93
	19.0	95+41.40	RT-28.50	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1014.31
	20.0	95+21.20	LT-16.75	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	1015.96
	30.0	91+06.37	LT-21.28	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1024.67
	30.1	91+06.34	LT-11.77	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1024.40
	40.0	87+72.03	LT-8.69	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1023.68
	40.1	87+71.78	LT-1.00	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1023.31
	40.2	87+70.85	RT-28.50	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1022.70
	45.0	83+62.90	RT-36.75	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
	46.0	83+92.56	RT-37.50	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
	50.0	122+35.79	RT-192.16	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
	50.1	83+92.80	RT-35.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	959.00
	50.2	83+92.80	RT-35.52	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
	EX.1.1	121+14.51	LT-92.85	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	962.13
	EX.2.0	121+03.93	RT-30.29	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	963.50
	EX.2.1	120+65.86	RT-33.00	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	963.66
	EX.3.0	101+98.39	LT-12.69	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	992.34
	EX.3.1	102+28.23	RT-43.77	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1000.49
	EX.4.0	98+12.91	LT-23.44	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1002.01
	EX.4.1	97+99.81	LT-16.38	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1002.15
	EX.5.0	95+25.55	LT-22.99	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1001.55
PROJECT TOTALS				**2**	**2**	**1**	**1**	**36**	**4**	**8**	**2**	**3**	**4**	**29**	**2**	**5**	**2**	**1**	**52**	**1**	**8**	**1**	-

STORM SEWER PIPE

CATEGORY	STRUCTURE I.D. FROM	STRUCTURE I.D. TO	(608.0312) CLASS III SS RCP 12-INCH LF	(608.0315) CLASS III SS RCP 15-INCH LF	(608.0318) CLASS III SS RCP 18-INCH LF	(608.0321) CLASS III SS RCP 21-INCH LF	(608.0324) CLASS III SS RCP 24-INCH LF	(608.0327) CLASS III SS RCP 27-INCH LF	(608.0330) CLASS III SS RCP 30-INCH LF	(608.0336) CLASS III SS RCP 36-INCH LF	(608.0342) CLASS III SS RCP 42-INCH LF	(608.2334) CLASS III SSP RCHE 34X53-INCH LF
0020	1.0	2.0	-	-	-	-	-	-	-	-	114	-
	2.0	3.0	-	-	-	-	-	-	-	-	-	41
	3.0	3.1	13	-	-	-	-	-	-	-	-	-
	3.0	4.0	-	-	-	-	-	-	-	-	-	36
	4.0	EX 1.1	-	-	-	-	29	-	-	-	-	-
	4.0	5.0	-	-	-	-	-	-	-	78	-	-
	5.0	5.1	7	-	-	-	-	-	-	-	-	-
	5.1	5.2	31	-	-	-	-	-	-	-	-	-
	5.0	6.0	-	-	-	-	-	-	-	31	-	-
	6.0	7.0	-	-	-	-	-	-	-	168	-	-
	7.0	8.0	-	-	-	-	-	-	133	-	-	-
	8.0	8.1	17	-	-	-	-	-	-	-	-	-
	8.1	8.2	30	-	-	-	-	-	-	-	-	-
	8.0	8.3	33	-	-	-	-	-	-	-	-	-
	8.0	9.0	-	-	-	-	-	-	295	-	-	-
	9.0	9.1	12	-	-	-	-	-	-	-	-	-
	9.1	9.2	41	-	-	-	-	-	-	-	-	-
	9.0	9.3	30	-	-	-	-	-	-	-	-	-
	9.0	10.0	-	-	-	-	-	301	-	-	-	-
	10.0	10.1	-	-	-	69	-	-	-	-	-	-
	10.1	10.2	-	-	-	35	-	-	-	-	-	-
	10.2	10.3	35	-	-	-	-	-	-	-	-	-
	10.0	11.0	-	-	-	-	123	-	-	-	-	-
	11.0	11.1	9	-	-	-	-	-	-	-	-	-
	11.1	11.2	30	-	-	-	-	-	-	-	-	-
	11.0	11.3	41	-	-	-	-	-	-	-	-	-
	11.0	12.0	-	-	-	169	-	-	-	-	-	-
	12.0	12.1	35	-	-	-	-	-	-	-	-	-
	12.0	13.0	-	-	-	66	-	-	-	-	-	-
	13.0	13.1	21	-	-	-	-	-	-	-	-	-
	13.1	13.2	30	-	-	-	-	-	-	-	-	-
	13.0	14.0	-	-	-	298	-	-	-	-	-	-
	14.0	14.1	28	-	-	-	-	-	-	-	-	-
	14.0	15.0	-	-	301	-	-	-	-	-	-	-
	15.0	15.1	29	-	-	-	-	-	-	-	-	-
	15.0	16.0	-	212	-	-	-	-	-	-	-	-
	16.0	16.1	34	-	-	-	-	-	-	-	-	-
	16.0	17.0	119	-	-	-	-	-	-	-	-	-
	17.0	18.0	300	-	-	-	-	-	-	-	-	-
	18.0	19.0	32	-	-	-	-	-	-	-	-	-
	EX 5.0	20.0	8	-	-	-	-	-	-	-	-	-
	30.0	30.1	10	-	-	-	-	-	-	-	-	-
	EX.8.0	40.0	-	80	-	-	-	-	-	-	-	-
	40.0	40.1	-	8	-	-	-	-	-	-	-	-
	40.1	40.2	30	-	-	-	-	-	-	-	-	-
	45.0	46.0	-	-	29	-	-	-	-	-	-	-
	50.0	50.1	-	-	-	-	-	18	-	-	-	-
	50.1	50.2	-	-	-	-	-	25	-	-	-	-
PROJECT TOTALS			**1,005**	**300**	**330**	**637**	**152**	**344**	**428**	**277**	**114**	**77**

FINISHING ITEMS

CATEGORY	STATION	TO STATION	LOCATION	(628.2006) EROSION MAT URBAN CLASS 1 TYPE A SY	(628.2027) EROSION MAT CLASS II TYPE C SY	(629.0210) FERTILIZER TYPE B CWT	(630.0140) SEEDING MIXTURE NO. 40 LB	(630.0500) SEED WATER MGAL	(SPV.0180.02) TOPSOIL SPECIAL SY
0020	81+00	87+00	E.B. COTTAGE GROVE ROAD	742	0	0.47	13	33	742
	87+00	93+00	E.B. COTTAGE GROVE ROAD	3,377	0	2.13	61	152	3,377
	93+00	99+00	E.B. COTTAGE GROVE ROAD	1,467	0	0.92	26	66	1,467
	99+00	105+00	E.B. COTTAGE GROVE ROAD	1,419	0	0.89	26	64	1,419
	105+00	111+00	E.B. COTTAGE GROVE ROAD	2,234	0	1.41	40	100	2,234
	111+00	117+00	E.B. COTTAGE GROVE ROAD	2,484	0	1.56	45	111	2,484
	117+00	123+00	E.B. COTTAGE GROVE ROAD	1,323	0	0.83	24	59	1,323
	123+00	125+67	E.B. COTTAGE GROVE ROAD	112	0	0.07	2	5	112
	-	-	BIORETENTION BASIN	470	1,200	-	-	1	470
	PROJECT TOTALS			**13,628**	**1,200**	**8**	**237**	**592**	**13,628**

EROSION CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	(623.0200) DUST CONTROL SURFACE TREATMENT SY	(628.1504) SILT FENCE LF	(628.1520) SILT FENCE MAINTENANCE LF	(628.7005) INLET PROTECTION TYPE A EACH	(628.7015) INLET PROTECTION TYPE C EACH	(628.7020) INLET PROTECTION TYPE D EACH	(628.7504) TEMPORARY DITCH CHECKS LF	(628-7570) ROCK BAGS EACH	(SPV.0090.08) TUBULAR SEDIMENT CONTROL SPECIAL LF
0020	69+00		75+00	E.B. COTTAGE GROVE ROAD	-	-	-	-	10	-	-	-	366
	75+00		81+00	E.B. COTTAGE GROVE ROAD	-	-	-	-	2	-	-	-	-
	81+00		87+00	E.B. COTTAGE GROVE ROAD	3023	-	-	-	8	-	-	-	549
	87+00		93+00	E.B. COTTAGE GROVE ROAD	9656	-	-	-	5	5	-	3	713
	93+00		99+00	E.B. COTTAGE GROVE ROAD	5043	-	-	-	7	4	-	-	604
	99+00		105+00	E.B. COTTAGE GROVE ROAD	5721	-	-	1	4	5	5	6	66
	105+00		111+00	E.B. COTTAGE GROVE ROAD	7390	-	-	2	5	11	5	2	224
	111+00		117+00	E.B. COTTAGE GROVE ROAD	7709	-	-	-	1	5	25	-	646
	117+00		123+00	E.B. COTTAGE GROVE ROAD	10159	-	-	4	3	10	15	2	337
	123+00		126+00	E.B. COTTAGE GROVE ROAD	471	-	-	-	-	-	5	-	-
	-		-	BIORETENTION BASIN	-	270	270	-	-	-	55	-	-
	-		-	UNDISTRIBUTED	-	-	-	-	-	-	-	10	-
	PROJECT TOTALS				**49172**	**270**	**270**	**7**	**45**	**40**	**110**	**23**	**3505**

MOBILIZATIONS

CATEGORY	(628.1905) EROSION CONTROL EACH	(628.1910) EMERGENCY EROSION CONTROL EACH	(SPV.0105.06) STORM CONTROL PLAN AND IMPLEMENTATION LS
0020	10	12	1
PROJECT TOTALS	**10**	**12**	**1**

TRACKING PADS

CATEGORY	LOCATION	(628.7560) EACH
0020	BEGIN PROJECT	1
	END PROJECT	1
	UNDISTRIBUTED	11
	PROJECT TOTAL	**13**

UTILITY LINE OPENING (ULO)

CATEGORY	I.D.	STATION	LOCATION	UTILITY	(SPV.0060.12) EACH
0020	ULO-1	121+71.50	LT-59.00	ELECTRIC-ATC	1
	ULO-2	120+99.50	LT-40.72	ELECTRIC-MG&E	1
	ULO-3	117+34.40	LT-46.00	TEL & TV	1
	ULO-4	87+40.26	LT-67.59	ELECTRIC & TV	1
	UNDISTRIBUTED				18
			PROJECT TOTAL		**22**

REMOVING STORM SEWER STRUCTURES

CATEGORY	STRUCTURE PLANS I.D.	STRUCTURE CITY I.D.	STATION	LOCATION	OFFSET	(204.0210) REMOVING MANHOLES EACH	(204.0220) REMOVING INLETS EACH
0020	X-20	IN 7246-003	88+76.00	E.B. COTTAGE GROVE RD	RT-29.00'	-	1
	X-19	IN 7245-050	91+06.50	E.B. COTTAGE GROVE RD	LT-17.50'	-	1
	X-18	IN 7345-053	95+21.25	E.B. COTTAGE GROVE RD	LT-18.50'	-	1
	X-17	IN 7446-004	108+63.50	E.B. COTTAGE GROVE RD	RT-23.00'	-	1
	X-16	IN 7446-005	110+04.50	E.B. COTTAGE GROVE RD	RT-23.00'	-	1
	X-15	IN 7446-002	110+15.50	E.B. COTTAGE GROVE RD	RT-40.00'	-	1
	X-14	IN 7445-016	110+17.00	E.B. COTTAGE GROVE RD	LT-44.00'	-	1
	X-13	IN 7446-006	110+50.00	E.B. COTTAGE GROVE RD	RT-34.50'	-	1
	X-12	IN 7445-013	110+65.50	E.B. COTTAGE GROVE RD	LT-66.00'	-	1
	X-11	IN 7445-014	110+67.50	E.B. COTTAGE GROVE RD	LT-74.50'	-	1
	X-10	IN 7445-011	111+03.50	E.B. COTTAGE GROVE RD	LT-65.00'	-	1
	X-9	AS 7445-012	111+04.50	E.B. COTTAGE GROVE RD	LT-45.00'	1	-
	X-8	AS 7446-007	111+86.00	E.B. COTTAGE GROVE RD	RT-37.50'	1	-
	X-7	IN 7446-009	119+58.50	E.B. COTTAGE GROVE RD	RT-30.50'	-	1
	X-6	IN 7446-011	120+64.00	E.B. COTTAGE GROVE RD	RT-43.75'	-	1
	X-5	IN 7445-037A	121+09.50	E.B. COTTAGE GROVE RD	LT-50.50'	-	1
	X-4	IN 7445-037	121+16.00	E.B. COTTAGE GROVE RD	LT-51.50'	1	-
	X-3	IN 7545-001	122+05.50	E.B. COTTAGE GROVE RD	LT-55.30'	-	1
	X-2	IN 7545-002	122+50.50	E.B. COTTAGE GROVE RD	LT-42.00'	1	-
	X-1	AE-7546-001	122+50.00	E.B. COTTAGE GROVE RD	RT-34.50'	-	1
				PROJECT TOTALS		**4**	**16**

REMOVING STORM SEWER

CATEGORY	STATION	OFFSET	TO	STATION	OFFSET	LOCATION	(204.0245.01) SIZE 01. 12-INCH OR LESS LF	(204.0245.02) SIZE 02 15-INCH TO 30-INCH LF	(204.0245.03) SIZE 03 19-INCH X 30-INCH LF	(204.0245.04) SIZE 04 24-INCH X 36-INCH LF	(204.0245.05) SIZE 05 42-INCH LF
0020	83+65.00	RT-50.00'		83+98.00	RT-50.00'	E.B. COTTAGE GROVE RD	-	32	-	-	-
	86+73.30	RT-29.50'		87+04.65	RT-29.50'	E.B. COTTAGE GROVE RD	-	31	-	-	-
	87+34.00	RT-29.00'		88+75.75	RT-28.75'	E.B. COTTAGE GROVE RD	141	-	-	-	-
	91+06.00	LT-17.30'		91+06.00	LT-19.00'	E.B. COTTAGE GROVE RD	-	15	-	-	-
	95+21.25	LT-18.50'		95+25.50	LT-22.00'	E.B. COTTAGE GROVE RD	5	-	-	-	-
	101+70.00	RT-34.50'		102+28.25	RT-43.50'	E.B. COTTAGE GROVE RD	-	60	-	-	-
	108+63.50	RT-22.75'		109+00.00	RT-36.50'	E.B. COTTAGE GROVE RD	41	-	-	-	-
	110+04.50	RT-23.00'		110+15.50	RT-39.50'	E.B. COTTAGE GROVE RD	20	-	-	-	-
	110+15.50	RT-39.50'		111+86.00	RT-37.50'	E.B. COTTAGE GROVE RD	-	-	170	-	-
	111+86.00	RT-37.50'		112+71.50	RT-28.50'	E.B. COTTAGE GROVE RD	-	-	84	-	-
	110+16.75	LT-44.00'		111+04.50	LT-45.00'	E.B. COTTAGE GROVE RD	-	87	-	-	-
	111+04.50	LT-45.00'		111+91.00	LT-46.50'	E.B. COTTAGE GROVE RD	-	87	-	-	-
	110+66.00	LT-66.00'		110+67.50	LT-75.00'	E.B. COTTAGE GROVE RD	6	-	-	-	-
	110+67.50	LT-75.00'		111+02.25	LT-64.50'	E.B. COTTAGE GROVE RD	-	35	-	-	-
	111+02.25	LT-64.50'		111+04.50	LT-45.00'	E.B. COTTAGE GROVE RD	-	19	-	-	-
	114+70.50	RT-33.75'		115+05.00	RT-33.50'	E.B. COTTAGE GROVE RD	-	34	-	-	-
	114+62.00	LT-65.50'		114+72.50	LT-46.25'	E.B. COTTAGE GROVE RD	21	-	-	-	-
	115+82.75	LT-37.50'		116+20.50	LT-37.50'	E.B. COTTAGE GROVE RD	-	-	-	40	-
	117+40.25	RT-29.50'		117+71.50	RT-29.50'	E.B. COTTAGE GROVE RD	-	32	-	-	-
	118+12.00	RT-30.00'		118+45.00	RT-30.50'	E.B. COTTAGE GROVE RD	-	32	-	-	-
	119+26.75	RT-31.25'		119+58.25	RT-30.50'	E.B. COTTAGE GROVE RD	-	32	-	-	-
	119+58.50	RT-30.50'		120+66.00	RT-32.50'	E.B. COTTAGE GROVE RD	-	107	-	-	-
	120+66.00	RT-32.50'		120+64.00	RT-44.00'	E.B. COTTAGE GROVE RD	11	-	-	-	-
	120+49.50	LT-41.00'		121+16.00	LT-51.50'	E.B. COTTAGE GROVE RD	-	67	-	-	-
	121+16.00	LT-51.50'		121+16.00	LT-93.00'	E.B. COTTAGE GROVE RD	-	41	-	-	-
	121+16.00	LT-51.00'		122+05.50	LT-55.50'	E.B. COTTAGE GROVE RD	-	89	-	-	-
	122+05.50	LT-55.50'		122+50.50	LT-42.00'	E.B. COTTAGE GROVE RD	-	47	-	-	-
	122+50.50	LT-42.00'		122+50.00	RT-37.75'	E.B. COTTAGE GROVE RD	-	-	-	-	77
	122+07.50	RT-31.00'		122+34.00	RT-32.00'	E.B. COTTAGE GROVE RD	-	27	-	-	-
				PROJECT TOTALS			**245**	**874**	**254**	**40**	**77**

BIORETENTION BASIN ITEMS

CATEGORY	(SPV.0035.01) 3/8" PEA GRAVEL SPECIAL C.Y.	(SPV.0035.02) ENGINEERED SOIL SPECIAL C.Y.	(SPV.0035.03) SELECT BORROW CLAY SPECIAL C.Y.	(SPV.0060.11) UNDERDRAIN CLEANOUT SPECIAL EACH	(SPV.0085.01) COMMON NATIVE SEED MIX SPECIAL L.B.	(SPV.0105.01) CONSTRUCTION STAKING POND SPECIAL L.S.	(SPV.0165.02) TIED CONCRETE BLOCK MATS SPECIAL S.F.	(SPV.0180.01) REMOVAL OF BURIED ASPHALT PARKING LOT SPECIAL S.Y.	(SPV.0195.01) DISPOSAL OF CONTAMINATED SOIL SPECIAL TON	(SPV.0195.02) SAND SPECIAL TON
20	**8**	**242**	**317**	**2**	**4.5**	**1**	**1,351.0**	**300.0**	**160.0**	**170**

MISCELLANEOUS STORM SEWER ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	(606.0200) RIPRAP MEDIUM CY	(606.0300) RIPRAP HEAVY CY	(612.0106) PIPE UNDERDRAIN 6-INCH LF	(612.0110) PIPE UNDERDRAIN 10-INCH LF	(612.0210) PIPE UNDERDRAIN UNPER. 10-INCH LF	(SPV.0060.08) FLUID THERMAL BACKFILL EACH	(SPV.0090.19) UTILITY TRENCH PATCH TYPE IV LF
0020	82+00.00		88+00.00	E.B. COTTAGE GROVE ROAD	-	-	-	-	-	-	50
	88+00.00		94+00.00	E.B. COTTAGE GROVE ROAD	-	-	-	-	-	-	-
	94+00.00		100+00.00	E.B. COTTAGE GROVE ROAD	-	-	-	-	-	-	-
	100+00.00		106+00.00	E.B. COTTAGE GROVE ROAD	-	-	-	-	-	-	-
	106+00.00		112+00.00	E.B. COTTAGE GROVE ROAD	-	-	-	-	-	-	-
	112+00.00		118+00.00	E.B. COTTAGE GROVE ROAD	-	-	-	-	-	-	-
	118+00.00		124+00.00	E.B. COTTAGE GROVE ROAD	-	-	240	-	-	1	-
	-		-	BIORETENTION BASIN	10	19	-	105	36	-	-
	PROJECT TOTALS				**10**	**19**	**240**	**105**	**36**	**1**	**50**

SANITARY SEWER STRUCTURES

CATEGORY	STRUCTURE NUMBER	STATION	LOCATION	FINAL RIM	EXISTING TOP OF	EXISTING ADJUST	NET ADJUST	IE	DEPTH	(SPV.0060.50) ADJUST SEWER ACCESS STRUCTURE SPECIAL EACH	(611.8110) ADJUSTING MANHOLE COVERS EACH	NOTES
0050	EX.7545-004	124'CG'+20.03	LT-42.98	959.40	959.40	1.00	0	946.05	13.35	-	-	-
	EX.7545-005	122'CG'+33.37	LT-24.71	962.31	961.95	0.67	0.36	946.88	15.43	1	-	-
	EX.7445-018	121'CG'+19.97	LT-27.73	963.70	963.17	0.92	0.53	947.12	16.58	1	-	-
	EX.7445-010	120'CG'+63.50	LT-27.38	964.26	963.89	0.58	0.37	953.64	10.62	-	1	-
	EX.7445-011	118'CG'+45.52	LT-30.10	967.20	966.45	0.42	0.75	956.25	10.95	1	-	-
	EX.7445-012	115'CG'+37.86	LT-33.17	975.02	975.11	0.25	-0.09	965.61	9.41	-	1	-
	EX.7446-010	120'CG'+85.89	RT-14.91	963.53	963.45	0.08	0.08	947.75	15.78	-	1	-
				PROJECT TOTALS						**3**	**3**	**-**

WATER MAIN PIPES
CATEGORY: 0010

SHEET	STATION	OFFSET	TO STATION	OFFSET	SPV.0090.13 FURNISH & INSTALL 6-IN PIPE LF	SPV.0090.14 FURNISH & INSTALL 8-INCH PIPE LF	SPV.0090.15 FURNISH & INSTALL 16-INCH PIPE LF	SPV.0090.16 HORIZ. DIR. DRILL 20-INCH PIPE LF	SPV.0090.17 LANDSCAPE RESTORATION FOR WATER LF	SPV.0090.12 2-INCH FOAM BOARD INSULATION LF	SPV.0090.18 UTILITY TRENCH PATCH TYPE III LF	SPV.0090.19 UTILITY TRENCH PATCH TYPE IV LF	NOTES
W-1	0+30.0	0.0'LT	3+50.0	0.0'LT	-	-	-	-	320	-	-	-	
W-1	0+44.5	0.0'LT	3+00.0	0.0'RT	-	-	256	-	-	-	-	-	
W-1	0+50.5	0.0'LT	0+58.5	0.0'LT	-	-	-	-	-	8	-	-	
W-1	2+97.0	0.0'RT	2+97.0	6.0'RT	6	-	-	-	-	-	-	-	
W-1	3+00.0	0.0'RT	6+00.0	0.0'RT	-	-	-	300	-	-	-	-	
W-2	10+25.0	0.0'RT	12.00.0	0.0'RT	-	-	-	-	175	-	-	-	
W-2	10+75.0	0.0'RT	12.00.0	0.0'RT	-	-	125	-	-	-	-	-	
W-2	10+81.0	0.0'RT	10+81.0	6.0'RT	6	-	-	-	-	-	-	-	
W-2	6+00.0	0.0'RT	10+75.0	0.0'RT	-	-	-	475	-	-	-	-	
W-3	80+12.0	37.3'LT	82+00.0	21.2'RT	-	-	202	-	-	-	-	-	
W-3	80+37.0	35.0'LT	81+10.0	28.0'LT	-	-	-	-	-	-	85	-	
W-3	81+10.0	28.0'LT	81+55.0	20.0'RT	-	-	-	-	-	-	-	40	
W-3	81+95.1	21.2'RT	81+95.1	25.2'RT	4	-	-	-	-	-	-	-	
W-4	82+00.0	21.0'RT	88+00.0	21.0'RT	-	-	600	-	-	-	-	-	
W-4	83+43.9	21.9'RT	87+19.5	87.9'LT	-	109	-	-	-	-	-	-	
W-4	87+18.6	21.0'RT	83+44.6	60.3'RT	39	-	-	-	-	-	-	-	
W-4	87+18.6	22.0'LT	87+19.5	95.0'LT	-	-	-	-	-	-	73	-	
W-4	87+24.6	24.0'RT	87+24.6	32.5'RT	9	-	-	-	-	-	-	-	
W-4	87+66.0	21.0'RT	87+74.0	21.0'RT	-	-	-	-	-	8	-	-	
W-4	91+71.7	76.0'LT	91+71.7	84.0'LT	-	-	-	-	-	8	-	-	
W-5	88+00.0	21.0'RT	94+00.0	21.0'RT	-	-	600	-	-	-	-	-	
W-5	91+71.2	21.0'RT	91+71.7	84.0'LT	-	105	-	-	-	-	-	-	
W-5	91+71.2	23.6'LT	91+71.7	90.0'LT	-	-	-	-	-	-	67	-	
W-6	94+00.0	21.0'RT	99+48.9	21.3'RT	-	-	555	-	-	-	-	-	INCLUDES <10-FEET OF 12-INCH PIPE
W-6	95+40.0	20.5'RT	95+48.0	20.5'RT	-	-	-	-	-	8	-	-	
W-6	95+58.2	20.5'RT	95+58.0	45.1'RT	25	-	-	-	-	-	-	-	
W-6	99+60.0	21.5'RT	99+68.0	21.5'RT	-	-	-	-	-	8	-	-	
W-7	101+77.0	21.5'RT	101+85.0	21.5'RT	-	-	-	-	-	8	-	-	
W-7	102+80.0	4.0'RT	102+80.0	4.0'LT	-	-	-	-	-	8	-	-	
W-8	108+44.2	1.3'LT	108+44.2	9.3'LT	-	-	-	-	-	8	-	-	
W-8	110+16.0	34.4'LT	110+24.0	34.4'LT	-	-	-	-	-	8	-	-	
W-8	111+17.1	34.5'LT	111+25.1	34.5'LT	-	-	-	-	-	8	-	-	
W-9	114+30.5	32.7'LT	114+38.5	32.7'LT	-	-	-	-	-	8	-	-	
W-9	114+82.6	55.4'LT	114+82.6	62.4'LT	7	-	-	-	-	-	-	-	
W-9	116+48.1	4.0'LT	116+48.1	4.0'RT	-	-	-	-	-	8	-	-	
W-9	117+13.3	4.0'LT	117+13.3	4.0'RT	-	-	-	-	-	8	-	-	
W-9	117+30.3	41.8'LT	117+38.3	41.8'LT	-	-	-	-	-	8	-	-	
W-9	117+81.2	45.7'LT	117+81.2	51.7'LT	6	-	-	-	-	-	-	-	
W-10	118+08.6	2.0'LT	118+08.6	6.0'RT	-	-	-	-	-	8	-	-	
W-10	118+92.6	0.0'LT	118+92.6	8.0'RT	-	-	-	-	-	8	-	-	
W-10	120+11.7	0.0'LT	120+11.7	8.0'RT	-	-	-	-	-	8	-	-	
W-10	120+95.5	67.9'RT	121+30.5	69.3'RT	35	-	-	-	-	-	-	-	
W-10	121+35.9	68.6'LT	121+35.9	60.6'LT	-	-	-	-	-	-	-	-	
W-10	121+37.0	92.7'LT	121+30.5	69.3'RT	-	162	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
			TOTAL		**137**	**376**	**2338**	**775**	**495**	**136**	**225**	**40**	

WATER MAIN APPURTENANCES
CATEGORY: 0010

SHEET	STATION	OFFSET	SPV.0060.56 FURNISH & INSTALL 6-IN VALVE EA	SPV.0060.57 FURNISH & INSTALL 8-INCH VALVE EA	SPV.0060.53 FURNISH & INSTALL 12-INCH VALVE EA	SPV.0060.54 FURNISH & INSTALL 16-INCH VALVE EA	SPV.0060.58 FURNISH & INSTALL HYDRANT EA	SPV.0060.55 FURNISH & INSTALL 1-IN LATERAL EA	NOTES
W-1	0+47.0	0.0'LT	-	-	-	1	-	-	
W-1	2+97.0	3.0'RT	1	-	-	-	-	-	
W-1	2+97.0	6.0'RT	-	-	-	-	1	-	
W-2	10+81.0	3.0'RT	1	-	-	-	-	-	
W-2	10+81.0	6.0'RT	-	-	-	-	1	-	
W-3	81+92.1	21.2'RT	-	-	-	1	-	-	
W-3	81+95.1	23.2'RT	1	-	-	-	-	-	
W-3	81+95.1	25.2'RT	-	-	-	-	1	-	
W-4	83+43.9	24.9'RT	1	-	-	-	-	-	
W-4	86+12.1	21.0'RT	-	-	-	-	-	1	APPROXIMATE CONNECTION POINT AT WATER MAIN; CURB STOP LOCATION TO BE COORDINATED
W-4	87+18.6	18.0'RT	-	1	-	-	-	-	
W-4	87+19.5	84.9'LT	-	1	-	-	-	-	
W-4	87+21.6	21.0'RT	-	-	-	1	-	-	
W-4	87+24.6	24.0'RT	1	-	-	-	-	-	
W-4	87+24.6	32.5'RT	-	-	-	-	1	-	
W-5	91+71.2	18.0'RT	-	1	-	-	-	-	
W-5	91+71.7	81.0'LT	-	1	-	-	-	-	
W-5	91+74.2	21.0'RT	-	-	-	1	-	-	
W-6	95+58.0	45.1'RT	-	-	-	-	1	-	
W-6	95+58.1	23.5'RT	1	-	-	-	-	-	
W-6	99+51.9	21.4'RT	-	-	1	-	-	-	
W-8	108+34.8	27.8'RT	-	-	-	-	-	1	APPROXIMATE CONNECTION POINT AT WATER MAIN; CURB STOP LOCATION TO BE COORDINATED
W-9	115+87.1	43.4'LT	-	-	-	-	-	1	APPROXIMATE CONNECTION POINT AT WATER MAIN; CURB STOP LOCATION TO BE COORDINATED
W-9	116+48.8	42.5'LT	-	-	-	-	-	1	APPROXIMATE CONNECTION POINT AT WATER MAIN; CURB STOP LOCATION TO BE COORDINATED
W-9	117+13.4	41.9'LT	-	-	-	-	-	1	APPROXIMATE CONNECTION POINT AT WATER MAIN; CURB STOP LOCATION TO BE COORDINATED
W-10	118+08.6	41.6'LT	-	-	-	-	-	1	APPROXIMATE CONNECTION POINT AT WATER MAIN; CURB STOP LOCATION TO BE COORDINATED
W-10	118+91.9	41.6'LT	-	-	-	-	-	1	APPROXIMATE CONNECTION POINT AT WATER MAIN; CURB STOP LOCATION TO BE COORDINATED
W-10	120+95.5	67.9'RT	-	-	-	-	1	-	
W-10	121+27.5	69.2'RT	1	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
		TOTAL	**7**	**4**	**1**	**4**	**6**	**7**	

WATER MAIN MISCELLANEOUS
CATEGORY: 0010

SHEET	STATION	OFFSET	TO STATION	OFFSET	SPV.0035.04 ROCK EXCAVATION WATER MAIN CY	SPV.0060.51 ADJUST WATER VALVE BOX SECTIONS EA	SPV.0060.52 CUT-IN OR CONNECT TO EXISTING WATER EA	SPV.0060.59 FURNISH EXCAVATION FOR LIVE TAP EA	SPV.0060.60 RELOCATE HYDRANT EA	SPV.0060.61 UTILITY LINE OPENING FOR WATER EA	SPV.0105.05 CONSTRUCTION STAKING OF WATER LS	SPV.0090.02 CURB & GUTTER 30-INCH TYPE D SPECIAL LF	204.012 ** REMOVING ASPHALTIC SURFACE MILLING SY	204.015 ** REMOVING CURB & GUTTER LF	204.0155 ** REMOVING CONCRETE SIDEWALK SF	460.6224 ** HMA PAVEMENT 4MT 58-28 S TON	602.0410 ** CONCRETE SIDEWALK 5-INCH SF	NOTES
N/A	UNISTRIBUTED		-	-	50	-	-	-	-	-	1	-	-	-	-	-	-	
W-1	0+42.3	7.2'LT	0+46.5	10.6'RT	-	-	-	-	-	-	-	-	-	-	100	-	100	
W-1	0+44.5	0.0'LT	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
W-1	5+00.0	0.0'LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	APPROXIMATE LOCATION; MULTIPLE UTILITIES EXPECTED
W-2	10+00.0	25.0'LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	APPROXIMATE LOCATION
W-2	6+20.0	0.0'LT	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	APPROXIMATE LOCATION; MULTIPLE UTILITIES EXPECTED
W-2	8+90.0	0.0'LT	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	APPROXIMATE LOCATION; MULTIPLE UTILITIES EXPECTED
W-3	80+32.0	35.0'LT	81+12.0	37.0'LT	-	-	-	-	-	-	-	80	-	80	-	-	-	
W-3	80+20.0	30.0'LT	81+60.0	18.0'RT	-	-	-	-	-	-	-	-	650	-	-	80	-	
W-4	87+19.5	87.9'LT	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
W-4	87+24.5	87.7'LT	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	
W-5	91+71.7	84.0'LT	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
W-5	91+74.1	84.1'LT	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	
W-6	99+54.9	21.4'RT	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
W-6	99+54.9	35.1'RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
W-7	102+01.1	23.8'RT	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	
W-7	102+84.8	21.5'RT	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	
W-7	103+03.0	22.8'RT	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	
W-8	108+07.8	30.0'RT	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	
W-8	108+10.8	27.5'RT	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	
W-8	110+98.1	32.8'LT	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	
W-8	111+15.5	34.4'LT	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	
W-8	111+40.7	52.5'LT	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	
W-9	114+78.3	32.0'LT	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	
W-9	114+82.6	62.4'LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
W-9	114+83.5	48.1'LT	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	
W-9	117+81.2	51.7'LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
W-10	121+37.0	92.7'LT	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
W-10	121+04.7	63.7'RT	121+05.7	71.6'RT	-	-	-	-	-	-	-	20	-	20	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				TOTAL	**50**	**36**	**4**	**1**	**3**	**7**	**1**	**100**	**650**	**100**	**100**	**80**	**100**	

** Denotes items that are accounted for in other miscellaneous quantity tables.

PROJECT NO: 5992-09-27	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	MISCELLANEOUS QUANTITIES - WATER	SHEET 180	E

PERMANENT SIGNING, CONTRACTOR FURNISHED SIGNS

SIGN #	SIGN CODE	SIGN SIZE (IN x IN)	637.2210 SIGNS REFLECTIVE TYPE II:H (SF)	SPV.0060.02 PRECAST SIGN POST BASE (EACH)	SPV.0060.06 SIGN POST BASE FOR CONCRETE INSTALLATION (EACH)	SPV.0090.06 REFLECTIVE SIGN POST (LF)	SPV.0090.07 SIGN POST (LF)	SIGN MOUNTED ON SAME POST AS…	REMARKS
1-01	R2-1	30x36	7.50	1.00		10.00			SPEED LIMIT 35 MPH
1-02	W6-1	36x36	9.00	1.00		10.00			DIVIDED HIGHWAY
1-03	W6-1	36x36	9.00	1.00		10.00			DIVIDED HIGHWAY
1-04	R7-1LR	12x18	1.50	1.00		12.00		1-05	NO PARKING ANYTIME: DOUBLE ARROW
1-05	W12-1 MODIFIED	30x30	6.25					1-04	DOWN LEFT ARROW
1-06	W12-1 MODIFIED	30x30	6.25	1.00		10.00			DOWN LEFT ARROW
1-07	R2-1	30x36	7.50	1.00		12.00		1-08	SPEED LIMIT 35 MPH
1-08	M1-5A	24x24	4.00					1-07	COUNTY ROUTE SIGN
1-09	R7-1LR	12x18	1.50	1.00		12.00		2-01	NO PARKING ANYTIME: DOUBLE ARROW
1-10	R7-1LR	12x18	1.50					STREET LIGHT, 1-11	NO PARKING ANYTIME: DOUBLE ARROW
1-11	W12-1 MODIFIED	30x30	6.25					STREET LIGHT, 1-10	DOWN LEFT ARROW
1-12	R7-1LR	12x18	6.25					STREET LIGHT	NO PARKING ANYTIME: DOUBLE ARROW
1-13	W6-3	36x36	9.00	1.00		10.00			TWO-WAY TRAFFIC
1-14	R4-7	24x30	5.00		1.00	5.00			KEEP RIGHT
1-15	R7-1LR	12x18	1.50	1.00		12.00		2-02	NO PARKING ANYTIME: DOUBLE ARROW
1-16	W4-2	36x36	9.00	1.00		10.00			LANE ENDS
1-17	R4-7	24x30	5.00					SIGNAL	KEEP RIGHT
1-18	R4-7	24x30	5.00					SIGNAL, 2-03, 2-04	KEEP RIGHT
1-19	R7-1LR	12x18	1.50	1.00		12.00		2-05	NO PARKING ANYTIME: DOUBLE ARROW
1-20	R2-1	30x36	7.50	1.00			10.00		SPEED LIMIT 25 MPH
1-21	R4-7	24x30	5.00		1.00	5.00			KEEP RIGHT
1-22	R7-1LR	12x18	1.50	1.00		10.00			NO PARKING ANYTIME: DOUBLE ARROW
1-23	R2-1	30x36	7.50	1.00		12.00		1-24	SPEED LIMIT 35 MPH
1-24	M1-5A	24x24	4.00					1-23	COUNTY ROUTE SIGN
1-25	R2-1	30x36	7.50					STREET LIGHT, 1-26	SPEED LIMIT 35 MPH
1-26	M1-5A	24x24	4.00					STREET LIGHT, 1-25	COUNTY ROUTE SIGN
1-27	W9-1	36x36	9.00	1.00		10.00			RIGHT LANE ENDS
1-28	R2-1	30x36	7.50	1.00		12.00		1-29	SPEED LIMIT 35 MPH
1-29	M1-5A	24x24	4.00					1-28	COUNTY ROUTE SIGN
1-30	R2-1	30x36	7.50		1.00	12.00		1-31	SPEED LIMIT 35 MPH
1-31	M1-5A	24x24	4.00					1-30	COUNTY ROUTE SIGN
1-32	R7-1LR	12x18	1.50	1.00		12.00		2-06	NO PARKING ANYTIME: DOUBLE ARROW
1-33	R4-7	24x30	5.00		1.00	5.00			KEEP RIGHT
1-34	R1-1	36x36	9.00	1.00		12.00	12.00	STREET LIGHT, 2-07, 2-08	STOP
1-35	R7-1LR	12x18	1.50	1.00		10.00			NO PARKING ANYTIME: DOUBLE ARROW
1-36	R4-7	24x30	5.00		1.00	5.00			KEEP RIGHT
1-37	R7-1LR	12x18	1.50	1.00		12.00		2-09	NO PARKING ANYTIME: DOUBLE ARROW
1-38	R4-7	24x30	5.00		1.00	5.00			KEEP RIGHT
1-39	R7-1LR	12x18	1.50	1.00		12.00		2-10	NO PARKING ANYTIME: DOUBLE ARROW
1-40	W12-1	30x30	6.25		1.00	5.00			DOUBLE ARROW
1-41	R6-2R	30x36	7.50		1.00	10.00			ONE WAY: RIGHT ARROW
	SHEET SUBTOTAL		215.25	21.00	8.00	274.00	22.00		

PERMANENT SIGNING, CONTRACTOR FURNISHED SIGNS (CONTINUED)

SIGN #	SIGN CODE	SIGN SIZE (IN x IN)	637.2210 SIGNS REFLECTIVE TYPE II:H (SF)	SPV.0060.02 PRECAST SIGN POST BASE (EACH)	SPV.0060.06 SIGN POST BASE FOR CONCRETE INSTALLATION (EACH)	SPV.0090.06 REFLECTIVE SIGN POST (LF)	SPV.0090.07 SIGN POST (LF)	SIGN MOUNTED ON SAME POST AS…	REMARKS
1-42	R7-1LR	12x18	1.50	1.00		12.00		2-11	NO PARKING ANYTIME: DOUBLE ARROW
1-43	R4-7	24x30	5.00		1.00	5.00			KEEP RIGHT
1-44	W12-1	30x30	6.25		1.00	5.00			DOUBLE ARROW
1-45	R6-2R	30x36	7.50		1.00	10.00			ONE WAY: RIGHT ARROW
1-46	R7-1LR	12x18	1.50	1.00		10.00			NO PARKING ANYTIME: DOUBLE ARROW
1-47	R2-1	30x36	7.50		1.00	12.00		1-48	SPEED LIMIT 35 MPH
1-48	M1-5A	24x24	4.00					1-47	COUNTY ROUTE SIGN
1-49	R2-1	30x36	7.50	1.00		12.00		1-50	SPEED LIMIT 35 MPH
1-50	M2-51	24x24	4.00					1-49	COUNTY ROUTE SIGN
1-51	R7-1LR	12x18	1.50	1.00		12.00		2-12	NO PARKING ANYTIME: DOUBLE ARROW
1-52	W11-2	36x36	9.00					STREET LIGHT, 1-53, 2-13, 2-	PEDESTRIAN WARNING SIGN
1-53	W16-7P-R	24x12	2.00					STREET LIGHT, 1-52, 2-13, 2-	DOWNWARD DIAGONAL ARROW: RIGHT
1-54	W11-2	36x36	9.00					STREET LIGHT, 1-55, 1-56	PEDESTRIAN WARNING SIGN
1-55	W16-7P-R	24x12	2.00					STREET LIGHT, 1-54, 1-56	DOWNWARD DIAGONAL ARROW: RIGHT
1-56	R4-7	24x30	5.00					STREET LIGHT, 1-54, 1-55	KEEP RIGHT
1-57	W11-2	36x36	9.00	1.00		12.00		1-58	PEDESTRIAN WARNING SIGN
1-58	W16-7P	24x12	2.00					1-57	DOWNWARD DIAGONAL ARROW: LEFT
1-59	R1-1	36x36	9.00	1.00		10.00	10.00		STOP
1-60	R4-7	24x30	5.00				5.00	STREET LIGHT	KEEP RIGHT
1-61	R1-1	36x36	9.00				10.00	STREET LIGHT	STOP
1-62	R4-7	24x30	5.00					STREET LIGHT	KEEP RIGHT
1-63	R1-1	36x36	9.00	1.00		10.00	10.00	--	STOP
1-64	W11-2	36x36	9.00					STREET LIGHT, 1-65, 1-66	PEDESTRIAN WARNING SIGN
1-65	W16-7P-R	24x12	2.00					STREET LIGHT, 1-64, 1-66	DOWNWARD DIAGONAL ARROW: RIGHT
1-66	R4-7	24x30	5.00					STREET LIGHT, 1-64, 1-65	KEEP RIGHT
1-67	W11-2	36x36	9.00					STREET LIGHT, 1-68	PEDESTRIAN WARNING SIGN
1-68	W16-7P-R	24x12	2.00					STREET LIGHT, 1-67	DOWNWARD DIAGONAL ARROW: RIGHT
1-69	W11-2	36x36	9.00	1.00		12.00		1-70	PEDESTRIAN WARNING SIGN
1-70	W16-7P	24x12	2.00					1-69	DOWNWARD DIAGONAL ARROW: LEFT
1-71	R2-1	30x36	7.50	1.00		10.00			SPEED LIMIT 35 MPH
1-72	R7-1LR	12x18	1.50	1.00		10.00			NO PARKING ANYTIME: DOUBLE ARROW
1-73	R7-1LR	12x18	1.50	1.00		12.00		2-15	NO PARKING ANYTIME: DOUBLE ARROW
1-74	R7-1LR	12x18	1.50	1.00		12.00		2-16	NO PARKING ANYTIME: DOUBLE ARROW
1-75	R2-1	30x36	7.50	1.00		10.00			SPEED LIMIT 35 MPH
1-76	R2-1	30x36	7.50		1.00	10.00			SPEED LIMIT 35 MPH
1-77	R7-1LR	12x18	1.50	1.00		10.00			NO PARKING ANYTIME: DOUBLE ARROW
1-78	R4-7	24x30	5.00					STREET LIGHT	KEEP RIGHT
1-79	R1-1	36x36	9.00	1.00		12.00	12.00	2-17, 2-18	STOP
1-80	R1-1	36x36	9.00	1.00		10.00	10.00		STOP
1-81	R4-7	24x30	5.00		1.00	5.00			KEEP RIGHT
1-82	W3-3	36x36	9.00	1.00		10.00			SIGNAL AHEAD
	SHEET SUBTOTAL		224.75	17.00	6.00	233.00	57.00		

PERMANENT SIGNING, CONTRACTOR FURNISHED SIGNS (CONTINUED)

SIGN #	SIGN CODE	SIGN SIZE (IN x IN)	637.2210 SIGNS REFLECTIVE TYPE II:H (SF)	SPV.0060.02 PRECAST SIGN POST BASE (EACH)	SPV.0060.06 SIGN POST BASE FOR CONCRETE INSTALLATION (EACH)	SPV.0090.06 REFLECTIVE SIGN POST (LF)	SPV.0090.07 SIGN POST (LF)	SIGN MOUNTED ON SAME POST AS…	REMARKS
1-83	R7-1LR	12X18	1.50	1.00		10.00			NO PARKING ANYTIME: DOUBLE ARROW
1-84	R2-1	30X36	7.50		1.00	12.00		1-85	SPEED LIMIT 35 MPH
1-85	M1-5A	24X24	4.00					1-84	COUNTY ROUTE SIGN
1-86	R2-1	30X36	7.50	1.00		12.00		1-87	SPEED LIMIT 35 MPH
1-87	M1-5A	24X24	4.00					1-86	COUNTY ROUTE SIGN
1-88	R7-1LR	12X18	1.50	1.00		12.00		2-19	NO PARKING ANYTIME: DOUBLE ARROW
1-89	R2-1	30X36	7.50		1.00	12.00		1-90	SPEED LIMIT 35 MPH
1-90	M1-5A	24X24	4.00					1-89	COUNTY ROUTE SIGN
1-91	R2-1	30X36	7.50	1.00		12.00		1-92	SPEED LIMIT 35 MPH
1-92	M1-5A	24X24	4.00					1-91	COUNTY ROUTE SIGN
1-93	R4-7	24X30	5.00		1.00	5.00		--	KEEP RIGHT
1-94	R4-7	24X30	5.00					STREET LIGHT	KEEP RIGHT
1-95	R7-1LR	12X18	1.50	1.00		10.00			NO PARKING ANYTIME: DOUBLE ARROW
1-96	R7-1LR	12X18	1.50	1.00		12.00		2-20	NO PARKING ANYTIME: DOUBLE ARROW
1-97	R2-1	30X36	7.50		1.00	10.00			SPEED LIMIT 35 MPH
1-98	R2-1	30X36	7.50	1.00		10.00			SPEED LIMIT 35 MPH
1-99	R4-7	24X30	5.00					STREET LIGHT	KEEP RIGHT
1-100	R3-7	30X30	6.25	1.00		12.00		1-101, 1-102	LEFT LANE MUST TURN LEFT
1-101	R14-1	24X18	3.00					1-100, 1-102	TRUCK ROUTE
1-102	M6-4	21X15	2.19					1-100, 1-101	DIRECTION ARROW: DOUBLE ARROW
1-103	R2-1	30X36	7.50	1.00		10.00			SPEED LIMIT 35 MPH
1-104	R3-7	30X30	6.25	1.00		10.00			LEFT LANE MUST TURN LEFT
1-105	W6-1	36X36	9.00	1.00		10.00			DIVIDED HIGHWAY
1-106	R2-1	30X36	7.50	1.00		10.00			SPEED LIMIT 35 MPH
1-107	R2-1	30X36	7.50	1.00		10.00			SPEED LIMIT 40 MPH
1-108	W3-3	36X36	9.00	1.00		10.00			SIGNAL AHEAD
1-109	R3-7	30X30	6.25	1.00		10.00			LEFT LANE MUST TURN LEFT
1-110	R3-7	30X30	6.25	1.00		10.00			RIGHT LANE MUST TURN RIGHT
		SHEET SUBTOTAL	152.69	16.00	4.00	209.00	0.00		
		TOTAL	592.69	54.00	18.00	716.00	79.00		

PERMANENT SIGNING, CITY OF MADISON FURNISHED SIGNS

SIGN #	SIGN CODE	SIGN SIZE (IN x IN)	SPV.0060.01 ERECTING CITY-OWNED SIGNS TYPE II (EACH)	SIGN MOUNTED ON SAME POST AS…	REMARKS
2-01	R3-17 MODIFIED	18X24	1	1-09	BIKE LANE
2-02	R3-17 MODIFIED	18X24	1	1-15	BIKE LANE
2-03	D3-1	N/A	1	SIGNAL, 2-04, 1-18	NORTH STAR DR
2-04	D3-1	N/A	1	SIGNAL, 2-05, 1-18	COTTAGE GROVE RD
2-05	R3-17 MODIFIED	18X24	1	1-19	BIKE LANE
2-06	R3-17 MODIFIED	18X24	1	1-32	BIKE LANE
2-07	D3-1	N/A	1	STREET LIGHT, 2-08, 1-34	GEMINI DR
2-08	D3-1	N/A	1	STREEET LIGHT, 2-07, 1-34	COTTAGE GROVE RD
2-09	R3-17 MODIFIED	18X24	1	1-37	BIKE LANE
2-10	R3-17 MODIFIED	18X24	1	1-39	BIKE LANE
2-11	R3-17 MODIFIED	18X24	1	1-42	BIKE LANE
2-12	R3-17 MODIFIED	18X24	1	1-51	BIKE LANE
2-13	D3-1	N/A	1	STREET LIGHT, 2-14, 1-52, 1-	MCLEAN DR
2-14	D3-1	N/A	1	STREET LIGHT, 2-13, 1-52, 1-	COTTAGE GROVE RD
2-15	R3-17 MODIFIED	18X24	1	1-73	BIKE LANE
2-16	R3-17 MODIFIED	18X24	1	1-74	BIKE LANE
2-17	D3-1	N/A	1	2-18, 1-79	MCCLELLAN DR
2-18	D3-1	N/A	1	2-17, 1-79	COTTAGE GROVE RD
2-19	R3-17 MODIFIED	18X24	1	1-88	BIKE LANE
2-20	R3-17 MODIFIED	18X24	1	1-96	BIKE LANE
2-21	D3-1	N/A	1	STREET LIGHT, 2-22	SPRECHER RD
2-22	D3-1	N/A	1	STREET LIGHT, 2-21	COTTAGE GROVE RD
CITY FURNISHED SIGNS TOTALS			22		

CONDUIT (LIGHTING)

CATEGORY			652.0235 SCHEDULE 40 3"	652.0225 SCHEDULE 40 2"	652.0325 SCHEDULE 80 2"	655.0630 4 AWG	655.0620 8 AWG	
0040	SL9460	HH1	-	7	-	21	7	1-2"
	HH1	SL9461	-	154	-	462	154	1-2"
	SL9461	HH2	-	117	-	351	117	1-2"
	HH2	HH3	-	-	-	126	42	-
	HH3	SL8604	-	-	-	120	40	-
	HH6	HH8	-	-	51	153	51	1-2"
	SL8605	SL9462	-	-	-	0	0	-
	HH16	SL9463	-	-	168	504	168	1-2"
	SL9463	SL9464	-	169	-	507	169	1-2"
	SL9464	HH22	-	13	-	39	13	1-2"
	HH22	EXISTING	-	8	-	24	8	1-2"
	HH22	HH25	-	-	118	354	118	1-2"
	SL8614	HH31	-	16	-	48	16	1-2"
	SL8614	EXISTING	-	5	-	15	5	1-2"
	HH31	HH33	-	-	49	147	49	1-2"
	HH33	HH35	-	50	-	150	50	1-2"
	HH35	HH38	-	-	36	108	36	1-2"
	HH38	HH40	-	-	38	114	38	1-2"
	HH40	HH42	-	52	-	156	52	1-2"
	HH42	HH43	-	-	37	111	37	1-2"
	HH43	SL9465	-	9	-	27	9	1-2"
	HH43	SL9466	-	173	-	519	173	1-2"
	SL9466	SL9467	-	184	-	552	184	1-2"
	SL9467	SL9468	-	185	-	555	185	1-2"
	SL9468	HH49	-	168	-	504	168	1-2"
	HH49	SL9469	-	6	-	18	6	1-2"
	SL9469	SL9470	-	33	95	384	128	1-2"
	SL9470	SL9471	-	192	-	576	192	1-2"
	SL9471	SL9472	-	104	78	546	182	1-2"
	SL9472	SL9473	-	182	-	546	182	1-2"
	SL9473	SL9474	-	184	-	552	184	1-2"
	SL9474	HH60	-	156	-	468	156	1-2"
	HH60	SL9475	-	-	-	0	0	1-2"
	HH60	HH62	-	-	43	129	43	1-2"
	HH62	HH65	-	60	-	180	60	1-2"
	HH65	HH70	-	-	65	195	65	1-2"
	HH70	HH72	-	34	-	102	34	1-2"
	HH72	SL9476	-	-	-	0	0	1-2"
	HH65	LC3	-	44	-	132	44	2-2"
	HH72	HH71	-		77	231	77	1-2"
	HH86	END	-	115	-	345	115	1-2"
		TOTALS	0	2420	855	10071	3357	

CONDUIT (SIGNALS)

CATEGORY	FROM	TO	652.0235 SCHEDULE 40 3" (LF)	652.0225 SCHEDULE 40 2" (LF)	652.0335 SCHEDULE 80 3" (LF)	652.0615 CONDUIT SPECIAL 3" (LF)	COMMENT
0030	HH1	HH2	269	-	-	-	1-3"
	HH5	HH10	-	56	-	-	1-2"
	HH11	TS2	-	9	-	-	1-2"
	HH13	TS3	-	18	-	-	1-2"
	HH13	HH80	60	-	-	-	1-3"
	HH80	TS4	-	9	-	-	1-2"
	HH80	EXISTING	-	-	9	-	1-3" *
	HH6	HH8	-	-	102	-	2-3"
	HH6	HH16	-	-	302	-	2-3"
	SL8605	SL9462	-	-	131	-	1-3"
	HH8	TS13	-	5	-	-	1-2"
	HH8	TS10	-	30	-	-	1-2"
	HH8	HH14	-	-	124	-	1-3"
	HH14	TS8	-	48	-	-	1-2"
	HH14	HH12	62	-	-	-	1-3"
	HH12	TS9	-	4	-	-	1-2"
	HH12	TS7	-	7	-	-	1-2"
	HH14	HH18	-	20	-	-	1-2"
	HH14	HH16	-	-	72	-	2-3"
	HH16	SL9462	5	-	-	-	1-3"
	HH16	HH15	7	-	-	-	1-3"
	HH16	HH22	347	-	-	-	1-3"
	HH22	HH21	-	-	47	-	1-3"
	HH22	HH25	-	-	118	-	1-3"
	HH25	HH24	-	-	51	-	1-3"
	UNDISTRIBUTED		-	-	-	18	-
	SUB TOTALS		750	206	956	18	

CONDUIT (SIGNALS)

CATEGORY	FROM	TO	652.0235 SCHEDULE 40 3" (LF)	652.0225 SCHEDULE 40 2" (LF)	652.0335 SCHEDULE 80 3" (LF)	652.0615 ONDUIT SPECIAL 3" (LF)	COMMENT
0030	HH29	HH30	-	118	-	-	1-2"
	HH30	HH31	-	102	-	-	1-2"
	HH31	HH33	-	-	100	-	2-3"
	HH33	HH35	47	-	-	-	1-3"
	HH35	HH38	-	-	-	37	1-3"
	HH38	HH40	-	-	-	37	1-3"
	HH40	HH42	52	-	-	-	1-3"
	HH42	HH43	-	-	76	-	2-3"
	HH43	EXISTING	-	7	-	-	1-2" *
	HH43	EXISTING	-	6	-	-	1-2" *
	HH43	HH44	-	-	98	-	2-3"
	HH44	EXISTING	-	8	-	-	1-2" *
	HH45	HH46	-	128	-	-	1-2"
	HH43	HH47	508	-	-	-	1-3"
	HH47	HH52	212	-	102	-	1-3"
	HH49	HH50	-	-	37	-	1-3"
	HH49	HH50	-	-	49	-	1-3"
	HH53	HH52	-	-	50	-	1-3"
	HH52	HH51	-	-	35	-	1-3"
	HH52	HH54	400	-	75	-	1-3"
	HH54	HH57	273	-	-	-	1-3"
	HH55	HH57	-	119	-	-	1-2"
	HH57	HH60	153	153	-	-	1-2", 1-3"
	HH60	SL9475	24	-	-	-	1-3"
	HH60	HH62	-	-	84	-	2-3"
	HH62	TC3	33	-	-	-	3-3"
	HH62	HH65	126	-	-	-	2-3"
	HH65	TS31	-	15	-	-	1-2"
	HH65	TS15	5	-	-	-	1-3"
	HH65	HH70	-	-	130	-	2-3"
	HH70	TS17	16	-	-	-	1-3"
	HH70	HH72	64	-	-	-	2-3"
	HH72	SL9476	7	-	-	-	1-3"
	HH72	HH71	-	-	148	-	2-3"
	HH71	TS27	8	-	-	-	1-3"
	HH71	HH78	80	-	-	-	2-3"
	HH78	TS21	11	-	-	-	1-3"
	HH78	HH79	-	43	-	-	1-2"
	HH60	HH61	-	-	116	-	2-3"
	HH44	TS30	-	13	-	-	1-2"
	TT42	TS29	-	11	-	-	1-2"
	HH61	TS28	-	14	-	-	1-2"
	HH62	TS26	-	21	-	-	1-2"
	TOTALS		2769	964	2056	92	

PULLBOX

CATEGORY	STRUCTURE	STATION	OFFSET	SPV.0060.19 ELECTRICAL PULLBOX TYPE I EACH	SPV.0060.20 ELECTRICAL PULLBOX TYPE III EACH	SPV.0060.21 ELECTRICAL PULLBOX TYPE V EACH	SPV.0060.22 ELECTRICAL PULLBOX TYPE VII EACH
0030	HH1	15+85.2 WB	27' L	-	-	1	-
	HH3	15+52.3 WB	10.8' R	-	-	1	-
	HH5	21+58.4 WB	31.3' L	1	-	-	-
	HH6	21+58 WB	4.8' R	-	-	-	1
	HH8	81+37 EB	31.1' R	1	-	-	-
	HH10	21+03.9 WB	51.8' L	-	1	-	-
	HH12	87+04.9	52.5' R	1	-	-	-
	HH13	21+79.4 WB	65.6' L	-	-	1	-
	HH14	81+61 EB	31.4' R	1	-	-	-
	HH15	87+61.9 EB	10.3' L	-	-	-	-
	HH16	87+66 EB	4.9' L	-	-	1	-
	HH18	87+80 EB	31.3' R	-	1	-	-
	HH22	91+12 EB	14.9' L	1	-	-	-
	HH21	91+12 EB	31.9' R	1	-	-	-
	HH23	91+17.2 EB	20' L	-	-	-	-
	HH24	92+30 EB	32' R	1	-	-	-
	HH29	99+59 EB	5.8' L	-	1	-	-
	HH30	100+75 EB	14.5' L	1	-	-	-
	HH31	101+77 EB	17.5' L	-	-	1	-
	HH34	101+85.6 EB	17.7' L	-	-	-	-
	HH33	101+85 EB	31.4' R	1	-	-	-
	HH35	102+16 EB	59' R	1	-	-	-
	HH38	102+57 EB	65.5' R	1	-	-	-
	HH40	102+89 EB	63.4' R	1	-	-	-
	HH42	103+21 EB	31.4' R	1	-	-	-
	HH41	103+21 EB	5.9' L	-	-	-	-
	HH43	103+26.7 EB	5.8' L	-	-	1	-
	HH44	37+72.5 WB	31.3' L	1	-	-	-
	HH46	39+96 WB	30.9' L	-	1	-	-
	HH47	108+39 EB	7.1' L	1	-	-	-
	HH48	110+29 EB	31.8' R	1	-	-	-
	HH49	110+31 EB	16.6' L	-	-	1	-
	HH50	87+62 WB	10.3' L	1	-	-	-
	HH51	111+47 EB	31.5' R	1	-	-	-
	HH52	111+48 EB	3.8' L	-	-	1	-
	HH53	45+93 WB	32.3' L	1	-	-	-
	HH54	116+24 EB	3.7' L	1	-	-	-
	HH55	117+79 EB	4.8' L	-	1	-	-
	HH56	118+51.3 EB	16.2' R	-	-	-	-
	HH57	118+97 EB	13.4' L	1	-	-	-
	HH58	119+13.6 EB	19.4' R	-	-	-	-
	HH59	119+62.3 EB	22' R	-	-	-	-
	HH60	120+50 EB	14.8' L	-	-	-	1
	HH61	120+67 EB	36.3' R	1	-	-	-
	HH62	55+01 WB	31.4' L	-	-	1	-
	HH63	55+20.8 WB	18' L	-	-	-	-
	HH64	55+41.5 WB	27.2' L	-	-	-	-
	HH65	55+47.6 WB	54.8' L	-	-	-	1
	HH66	55+54.6 WB	50' L	-	-	-	-
	HH67	121+81.7 EB	24.5' R	-	-	-	-
	HH68	121+50 EB	92.5' R	-	-	-	-
	HH69	121+57 EB	44.1' R	-	-	-	-
	HH70	56+14.3 WB	47.7' L	1	-	-	-
	HH71	121+85.6 EB	24.3'R	1	-	-	-
	HH72	56+38.1 WB	31' L	-	-	1	-
	HH73	56+41.7 WB	19.7' L	-	-	-	-
	HH74	58+06.9 WB	17.6' L	-	1	-	-
	HH75	58+06.8 WB	15.8' L	-	-	-	-
	HH76	58+88.6 WB	18.1' L	1	-	-	-
	HH77	58+88.8 WB	16' L	-	-	-	-
	HH78	121+61.3 EB	50.3' R	1	-	-	-
	HH79	121+59.3 WB	92.9' R	-	1	-	-
	HH80	22+10.1 WB	31.1' L	1	-	-	-
	HH81	55+49.0 WB	111.7' L	1	-	-	-
TOTALS				28	7	10	3

CONCRETE BASE (SIGNALS)

CATEGORY	STRUCTURE	STATION	OFFSET	SPV.0060.18 CONCRETE BASE TYPE G EACH	SPV.0060.39 CONCRETE BASE TYPE LB-8 EACH	SPV.0060.40 CONCRETE BASE TYPE P EACH	654.0110 CONCRETE BASE TYPE 10 EACH	SPV.0060.17 CONCRETE BASE OFFSET EACH	COMMENTS
0030	TS13	86+39.7 EB	35.9' R	1	-	-	-	-	
	TS12	86+40 EB	21.7' R	-	-	-	-	-	
	TS11	86+65 EB	24.3' R	-	-	-	-	-	
	TS10	86+66.7 EB	34.5' R	1	-	-	-	-	
	TS2	21+41.9 WB	50.7' R	1	-	-	-	-	
	TS9	87+06.2 EB	48.1' R	1	-	-	-	-	
	TS8	87+13.3 EB	34.7' R	1	-	-	-	-	
	TS3	21+87.9 WB	49.7' L	1	-	-	-	-	
	TS4	22+02 WB	35.5' L	1	-	-	-	-	
	TS5	22+06.7 WB	34.5' L	-	-	-	-	-	
	TS6	87+62.5 EB	24.3' R	-	-	-	-	-	
	TS7	87+57.7 EB	36.4' R	1	-	-	-	-	
	TC3	55+11.9 WB	34.3' L	-	-	1	-	-	
	TS25	55+17 WB	18.1' L	-	-	-	-	-	
	TS26	55+21 WB	34.2' L	-	1	-	-	-	
	TC4	55+37.4 WB	30.7' L	-	-	-	-	-	
	TS15	55+42.1 EB	55.0' L	1	-	-	-	-	
	TS16	55+50.8 WB	41.4' L	-	-	-	-	-	
	TS17	56+16 WB	63.1' L	-	1	-	-	-	
	TS18	56+18 WB	43.9' L	-	-	-	-	-	
	TS22	121+54.9 EB	54.8' R	-	-	-	-	-	
	TS21	121+62.6 EB	61.6' R	1	-	-	-	-	
	TS20	121+82.3 EB	27.8' R	-	-	-	-	-	
	TS27	121+93.3 EB	26.9' R	-	-	-	1	-	
	TS19	56+44.4 WB	20.8' L	-	-	-	-	-	
	TS28	120+78.7 EB	48.8' R	1	-	-	-	-	
	TS29	103+14.6 EB	40.3'R	1	-	-	-	-	
	TS30	37+52.2 WB	36.6' L	1	-	-	-	-	
	TS31	55+37.3 EB	44.5' L	1	-	-	-	-	
	UNDISTRIBUTED	-	-	-	-	-	-	1	
	TOTALS			14	2	1	1	1	

CABLE & WIRE

CATEGORY	FROM	TO	655.0230 5-14 AWG (LF)	655.0240 7-14 AWG (LF)	655.0250 9-14 AWG (LF)	655.0260 12-14 AWG (LF)	655.0615 10 AWG (LF)	SPV.0090.10 LOOP DETECTOR LEAD-IN CABLE SPECIAL (LF)	SPV.0090.09 FIBER OPTIC CABLE 144-COUNT (LF)
0030	COTTAGE GROVE/NORTH STAR								
	TC1	TS2	106	-	-	-	106	-	-
	TC1	TS3	-	151	-	-	151	-	-
	TC1	TS4	-	-	-	180	180	-	-
	TC1	SL9462	693	-	-	-	693	-	-
	TC1	TS7	-	248	-	-	248	-	-
	TC1	TS8	290	-	-	-	290	-	-
	TC1	TS9	310	-	-	-	310	-	-
	TC1	TS10	148	-	-	-	148	-	-
	TC1	TS13	-	123	-	-	123	-	-
	TC1	SL8605	-	-	83	-	83	-	-
	TC1	TS14	42	-	42	-	84	-	-
	TC1	HH5	-	-	-	-	-	25	-
	TC1	HH6	-	-	-	-	-	65	-
	TC1	HH10	-	-	-	-	-	85	-
	TC1	HH4	-	-	-	-	-	150	-
	TC1	HH12	-	-	-	-	-	305	-
	TC1	HH18	-	-	-	-	-	261	-
	TC1	HH16	-	-	-	-	-	550	-
	HH1	HH2	-	-	-	-	-	-	318
	HH2	HH3	-	-	-	-	-	-	91
	HH3	HH6	-	-	-	-	-	-	256
	HH6	HH16	-	-	-	-	-	-	201
	HH16	HH22	-	-	-	-	-	-	397
	HH22	HH25	-	-	-	-	-	-	168
	HH6	TC1	-	-	-	-	-	-	80
	TC1	HH80	-	-	-	-	-	370	-
SUBTOTALS			1589	522	125	180	2416	1811	1511
	COTTAGE GROVE/SPRECHER								
	TC3	TS26	-	-	20	-	20	-	-
	TC3	TS15	-	-	85	-	85	-	-
	TC3	TS17	330	-	-	-	330	-	-
	TC3	SL9476	390	-	-	-	390	-	-
	TC3	TS21	-	313	-	-	313	-	-
	TC3	SL9475	132	66	-	-	198	-	-
	TC3	TS24	-	-	-	115	115	-	-
	TC3	TS27	260	-	260	-	520	-	-
	TC3	HH60	-	-	-	-	-	195	-
	TC3	HH57	-	-	-	-	-	220	-
	TC3	HH55	-	-	-	-	-	250	-
	TC3	HH65	-	-	-	-	-	180	-
	TC3	HH72	-	-	-	-	-	380	-
	TC3	HH78	-	-	-	-	-	295	-
	TC3	HH79	-	-	-	-	-	350	-
	HH25	HH28	-	-	-	-	-	-	730
	HH28	HH34	-	-	-	-	-	-	318
	HH34	HH43	-	-	-	-	-	-	200
	HH43	HH47	-	-	-	-	-	-	558
	HH47	HH52	-	-	-	-	-	-	364
	HH52	HH54	-	-	-	-	-	-	525
	HH54	HH57	-	-	-	-	-	-	325
	HH57	HH60	-	-	-	-	-	-	202
	HH60	HH62	-	-	-	-	-	-	65
	HH62	TC3	-	-	-	-	-	-	25
SUBTOTALS			1112	379	365	115	1971	1870	3312
TOTALS			2701	901	490	295	4387	3681	4823

STREET LIGHTING

CATEGORY	STRUCTURE	STATION	OFFSET	SPV.0060.48 CONCRETE BASE TYPE LB-3 EACH	SPV.0060.39 CONCRETE BASE LB-8 EACH	SPV.0060.49 CONCRETE BASE TYPE M EACH	SPV.0060.17 OFFSET EACH	SPV.0060.45 POLES 30-FOOT 11 GAUGE EACH	SPV.0060.46 POLES 30-FOOT 7 GAUGE EACH	657.0255 TRANSFORMER TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	SPV.0060.38 BASE, STEEL 16-INCH EACH	SPV.0060.41 LED LUMINAIRE AND MOUNTING BRACKET TYPE-1 EACH	SPV.0060.42 LED LUMINAIRE AND MOUNTING BRACKET TYPE-2 EACH	SPV.0060.43 LED LUMINAIRE AND MOUNTING BRACKET TYPE-3 EACH	655.0630 4 AWG L.F.	655.0620 8 AWG L.F.	SPV.0090.11 ELECTRIAL WIRE LIGHTING 14-3 UF GROUNDED (LF)	COMMENTS
0040	SL9460	15+80 WB	28.4' L	1	-	-	-	1	-	1	-	-	1	-	90	30	35	
	SL9461	17+36.5 WB	32.4' L	1	-	-	-	1	-	1	-	-	1	-	90	30	35	
	SL9462	22+04 WB	14.7' R	-	1	-	-	-	1	-	1	-	-	2	90	30	35	
	SL9463	23+52 WB	10.1' R	1	-	-	-	1	-	1	-	-	2	-	90	30	35	
	SL9464	24+99 WB	5.75' R	1	-	-	-	1	-	1	-	-	-	2	90	30	35	
	SL8614	36+35.6 WB	7.5' R	1	-	-	-	-	1	-	1	-	-	2	90	30	35	
	SL9810	102+52.2 EB	61.2' R	1	-	-	-	1	-	1	-	-	2	-	90	30	35	
	SL9465	37+62 WB	17.3' R	1	-	-	-	1	-	1	-	-	-	2	90	30	35	
	SL9466	39+42 WB	15.1' R	1	-	-	-	1	-	1	-	-	2	-	90	30	35	
	SL9467	41+24.3 WB	11' R	1	-	-	-	1	-	1	-	-	2	-	90	30	35	
	SL9468	43+14 WB	8.1' R	1	-	-	-	1	-	1	-	-	2	-	90	30	35	
	SL9469	44+74 WB	5.5' R	1	-	-	-	1	-	1	-	-	-	2	90	30	35	
	SL9470	46+67 WB	16' R	1	-	-	-	1	-	1	-	-	2	-	90	30	35	
	SL9471	48+47 WB	10.8' R	1	-	-	-	1	-	1	-	-	2	-	90	30	35	
	SL9472	50+32.2 WB	15.2' R	1	-	-	-	1	-	1	-	-	2	-	90	30	35	
	SL9473	52+17 WB	9.1' R	1	-	-	-	1	-	1	-	-	2	-	90	30	35	
	SL9474	54+06 WB	4.1' R	1	-	-	-	1	-	1	-	-	2	-	90	30	35	
	SL9475	55+16 WB	4.8' R	1	-	-	-	-	1	-	1	-	-	2	90	30	35	
	SL9476	56+45 WB	32.9' L	1	-	-	-	1	-	-	1	-	-	1	90	30	35	
	LC3	55+41.9 EB	74.4' L	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
	SL8608	25+76.6 WB	59.1' L	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
	SL8604	84+49.1 EB	10.1' L	-	-	-	-	-	-	-	-	-	2	-	-	-	-	
	SL8605	86+30.3 EB	15.6' L	-	-	-	-	-	-	-	-	-	-	2	-	-	-	
	SL8609	92+25.1 EB	17.9' L	-	-	-	-	-	-	-	-	-	-	2	-	-	-	
	SL8610	94+14.3 EB	20.6' L	-	-	-	-	-	-	-	-	-	2	-	-	-	-	
	SL8611	95+99 EB	15.6' L	-	-	-	-	-	-	-	-	-	2	-	-	-	-	
	SL8612	97+87.2 EB	20' L	-	-	-	-	-	-	-	-	-	2	-	-	-	-	
	SL8613	99+67.8 EB	13.5' L	-	-	-	-	-	-	-	-	-	2	-	-	-	-	
	UNDISTRIBUTED			-	-	-	1	-	-	-	-	-	-	-	-	-	-	
			TOTAL	17	1	1	1	15	3	14	4	1	31	17	1620	540	630	

TRAFFIC SIGNAL POLES

CATEGORY	STRUCTURE	657.010 BASE PEDESTAL EACH	SPV.0060.25 MONOTUBE POLES TYPE 9 EACH	SPV.0060.27 20-FOOT 7 GAUGE EACH	SPV.0060.35 TRAFFIC SIGNAL TROMBONE ARM 15-FOOT EACH	SPV.0060.36 TRAFFIC SIGNAL TROMBONE ARM 18-FOOT EACH	SPV.0060.37 TRAFFIC SIGNAL TROMBONE ARM 22-FOOT EACH	657.0420 STANDARD 13' ALUMINUM EACH	SPV.0060.24 MONOTUBE ARM 30' EACH
0030	TS2	1	-	-	-	-	-	1	-
	TS3	1	-	-	-	-	-	1	-
	TS4	1	-	-	-	-	-	1	-
	SL9462	-	-	-	1	-	-	-	-
	TS7	1	-	-	-	-	-	1	-
	TS8	1	-	-	-	-	-	1	-
	TS9	1	-	-	-	-	-	1	-
	TS10	1	-	-	-	-	-	1	-
	TS13	1	-	-	-	-	-	1	-
	TS26	1	-	-	-	-	-	1	-
	TS15	1	-	-	-	-	-	1	-
	TS17	-	-	1	-	-	1	-	-
	TS27	-	1	-	-	-	-	-	1
	SL9475	-	-	-	1	-	-	-	-
	TS14	1	-	-	-	1	-	1	-
	TS31	-	-	1	-	-	1	-	-
	SL8614	-	-	-	-	-	1	-	-
	TOTALS	11	1	2	2	1	3	11	1

CABLE TRAFFIC SIGNAL

CATEGORY	AT POLE #	TO HEAD #	655.0230 5-14 AWG (LF)	655.0240 7-14 AWG (LF)	655.0250 9-14 AWG (LF)	655.0260 12-14 AWG (LF)
0030						
	COTTAGE GROVE/NORTH STAR					
	TS1	1	15	-	-	-
	TS2	2	15	-	-	-
	TS3	3	15	-	-	-
	TS4	4, 17, 18	-	-	-	15
	SL9462	5	15	-	-	-
	SL9462	6	40	-	-	-
	SL9462	19, 20	15	-	-	-
	TS7	7, 12	-	15	-	-
	TS8	8	15	-	-	-
	TS9	9	15	-	-	-
	TS10	10	15	-	-	-
	TS13	11, 22	-	15	-	-
	TS14	15, 16, 23	-	-	30	-
	TS14	14	35	-	-	-
			-	-	-	-
SUBTOTAL			195	30	30	15

CATEGORY	AT POLE #	TO HEAD #	655.0230 5-14 AWG (LF)	655.0240 7-14 AWG (LF)	655.0250 9-14 AWG (LF)	655.0260 12-14 AWG (LF)
0030						
	COTTAGE GROVE/SPRECHER					
	TS26	24, 42	-	-	15	-
	TS15	25, 26	-	-	15	-
	TS17	27	50	-	-	-
	TS17	28	15	-	-	-
	SL9476	29	15	-	-	-
	SL9476	30	15	-	-	-
	TS27	31, 32	-	-	50	-
	TS27	33	15	-	-	-
	TS21	34, 35	-	15	-	-
	TS24	37, 38, 43	-	-	-	15
	SL9475	44, 45	15	-	-	-
	SL9475	39, 40	-	15	-	-
	SL9475	41	32	-	-	-
			-	-	-	-
			-	-	-	-
SUBTOTAL			157	30	80	15

TOTALS			352	60	110	30

REMOVALS

CATEGORY	DESCRIPTION	STATION	OFFSET	204.0195 REMOVING CONCRETE BASES EACH	205.0200 EXCAVATION ROCK C.Y.	653.0905 REMOVING PULL BOXES EACH	SPV.0060.47 STREET LIGHT REMOVAL EACH	SPV.0060.34 TRAFFIC SIGNAL REMOVAL EACH
0030	HH3	18+52.3 WB	10.6' R	-	-	1	-	-
-	HH6	20+58.1 WB	4.8' R	-	-	1	-	-
-	HH7	86+16.1 EB	21.3' R	-	-	1	-	-
-	TS12	86+40.1 EB	21.7'R	1	-	-	-	1
-	TS11	86+65 EB	24.3' R	1	-	-	-	1
-	HH13	21+79.4 WB	65.6' L	1	-	-	-	-
0040	SL9462	87+51.2 EB	6' L	-	-	-	1	-
0030	HH17	87+65.6 EB	21.3' L	1	-	-	-	-
-	TS5	22+06.7 WB	34.5' L	1	-	-	-	1
-	TS6	87+62.5 EB	24.3' R	1	-	-	-	1
-	HH23	25+60.4 WB	2.2' R	-	-	1	-	-
-	HH28	33+54.6 WB	9.7' R	-	-	1	-	-
-	HH30	100+75.5 EB	14.5' L	-	-	1	-	-
-	HH31	101+76.9 EB	17.5' L	-	-	1	-	-
-	HH34	101+85.6 EB	17.7' L	-	-	1	-	-
0040	SL8614	101+92.5 EB	17' L	-	-	-	1	-
0030	HH41	103+21 EB	5.9' L	-	-	1	-	-
-	TS25	55+17 WB	18.1' L	1	-	-	-	1
-	HH63	55+20.6 WB	17.8' L	-	-	1	-	-
-	TC4	55+37.4 WB	30.7' L	1	-	-	-	-
-	HH64	55+41.5 WB	27.2' L	-	-	1	-	-
-	TS16	55+50.8 WB	41.4' L	1	-	-	-	1
-	HH66	55+54.6 WB	50.1' L	-	-	1	-	-
-	TS18	56+18.2 WB	43.9' L	1	-	-	-	1
-	TS19	56+44.5 WB	20.7' L	1	-	-	-	1
-	HH73	56+41.7 WB	19.7' L	-	-	1	-	-
-	HH67	121+81.8 EB	24.5' R	-	-	1	-	-
-	TS20	121+82.3 EB	27.7' R	1	-	-	-	1
-	HH69	121+57 EB	44.1' R	-	-	1	-	-
-	TS22	121+55 EB	54.8' R	1	-	-	-	1
-	HH68	121+50 EB	92.6' R	-	-	1	-	-
-	HH75	58+06.8 WB	15.7' L	-	-	1	-	-
-	HH77	58+88.9 WB	16' L	-	-	1	-	-
0030	UNDISTRIBUTED	-	-	-	2	-	-	-
			TOTALS	13	2	18	2	10

TRAFFIC SIGNALS

CATEGORY	STRUCTURE	SPV.0060.26 Optical Signal Preempt* EACH	SPV.0060.31 TRAFFIC SIGNAL HEADS 12-INCH 3-SECTION EACH	SPV.0060.32 TRAFFIC SIGNAL HEADS 12-INCH 4-SECTION EACH	SPV.0060.33 TRAFFIC SIGNAL HEADS 12-INCH 5-SECTION EACH	SPV.0060.13 16-INCH PEDESTRIAN WITH COUNTDOWN EACH	SPV.0060.14 BACKPLATES SIGNAL FACE 12-INCH 3-SECTION EACH	SPV.0060.15 BACKPLATES SIGNAL FACE 12-INCH 4-SECTION EACH	SPV.0060.16 BACKPLATES SIGNAL FACE 12-INCH 5-SECTION EACH	658.0500 PEDESTRIAN PUSH BUTTON EACH	SPV.0060.28 TRAFFIC SIGNAL CONTROL CABINET EACH	SPV.0060.29 TRAFFIC SIGNAL CONTROLLER EACH	SPV.0060.23 MALFUNCTION MANAGEMENT UNIT EACH	SPV.0060.30 TRAFFIC SIGNAL ETHERNET SWITCH EACH
0030	TS1	-	1	-	-	-	1	-	-	-	-	-	-	-
	TS2	-	1	-	-	-	1	-	-	-	-	-	-	-
	TS3	-	1	-	-	-	1	-	-	-	-	-	-	-
	TS4	-	1	-	-	2	1	-	-	1	-	-	-	-
	SL9462	*	1	1	-	-	1	1	-	1	-	-	-	-
	TS7	-	1	-	-	1	1	-	-	1	-	-	-	-
	TS8	-	1	-	-	-	1	-	-	-	-	-	-	-
	TS9	-	1	-	-	-	1	-	-	-	-	-	-	-
	TS10	-	1	-	-	-	1	-	-	-	-	-	-	-
	TS13	-	1	-	-	1	1	-	-	1	-	-	-	-
	SL8605	*	2	1	-	-	2	1	-	1	-	-	-	-
	TS14	-	1	-	-	2	1	-	-	1	-	-	-	-
	TS15	-	2	-	-	-	2	-	-	-	-	-	-	-
	TS17	*	1	-	-	-	1	-	-	-	-	-	-	-
	SL9476	-	1	-	-	1	1	-	-	1	-	-	-	-
	TS27	*	2	1	-	-	2	1	-	-	-	-	-	-
	TS21	-	1	-	1	-	1	-	1	-	-	-	-	-
	TS23	*	-	-	1	-	-	-	1	-	-	-	-	-
	TS24	-	1	1	-	1	1	1	-	-	-	-	-	-
	SL9475	*	1	2	-	-	1	2	-	1	-	-	-	-
	TS26	-	1	-	-	2	1	-	-	1	-	-	-	-
	TC1	1	-	-	-	-	-	-	-	-	1	1	1	1
	TC2	1	-	-	-	-	-	-	-	-	1	1	1	1
	TS28	-	-	-	-	-	-	-	-	1	-	-	-	-
	TS31	-	-	-	-	-	-	-	-	1	-	-	-	-
	TOTALS	2	23	6	2	10	23	6	2	11	2	2	2	2

* MISC. QUANTITIES SHOWS PLACEMENT LOCATION FOR EACH OPTICAL PREEMPTION DEVICE.

LIGHTING CONTROL

CATEGORY	STATION	OFFSET	STRUCTURE	656.0200 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.	SPV.0060.44 LIGHTING CONTROL CABINET EACH
0040	55+41.9 EB	74.4' L	LC3	1	1
TOTALS				1	1

TEMPORARY LIGHTING

CATEGORY	ITEM NUMBER	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
0040	SPV.0105.04	TEMPORARY STREET LIGHTING	LS	1

ADDITIONAL ITEMS

CATEGORY	ITEM NUMBER	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
0030	658.5069	SIGNAL MOUNTING HARDWARE 01. COTTAGE GROVE RD - NORTH STAR DR	LS	1
	658.5069	SIGNAL MOUNTING HARDWARE 02. COTTAGE GROVE RD - S. SPRECHER RD	LS	1
	SPV.0105.03	TEMPORARY TRAFFIC SIGNALS COTTAGE GROVE RD - SPRECHER RD	LS	1
	SPV.0105.02	TEMPORARY TRAFFIC SIGNALS COTTAGE GROVE RD. - NORTH STAR DR.	LS	1

TRAFFIC DETECTOR LOOPS

LOOP NO.	STATION	OFFSET		Curbline Reference	SIZE	NO. TURNS	655.08 LOOP DETECTOR WIRE LF
L1	84+08.8 EB	5.3	ft	R	6x6	3	98
L2	85+34.6 EB	12.6	ft	R	6x6	3	122
L3	85+33.3 EB	2.7	ft	R	6x6	3	102
L4	20+59.8 WB	13.5	ft	L	6x6	3	94
L5	20+84.9 WB	3.3	ft	L	6x6	3	90
L6	86+15.9 EB	8.2	ft	L	6x6	3	84
L7	86+63.9 EB	7.7	ft	L	6X20	3	276
L8	21+11.1 WB	37.9	ft	L	6X14	3	132
L9	21+21.9 WB	47.3	ft	L	3.5X6	3	127
L10	21+12 WB	101.5	ft	L	6X6	3	94
L11	21+21.8 WB	101.1	ft	L	6X6	3	114
L12	86+99.4 EB	52.4	ft	R	6X6	3	80
L13	21+75.3 WB	7.9	ft	R	6X6	3	132
L14	22+11.7 WB	8	ft	R	6X6	3	86
L15	22+23.6 WB	7.5	ft	R	6X6	3	118
L16	87+81.6 EB	12.6	ft	R	6X6	3	94
L17	87+81.8 EB	9.6	ft	R	6X6	3	114
L18	23+33.4 WB	19.1	ft	L	6X6	3	96
L19	23+33.2 WB	9.5	ft	L	6x6	3	118
L20	25+9.1 WB	19.8	ft	L	6X14	3	142
L21	117+77.5 EB	3.5	ft	R	6X6	3	86
L22	117+76.9 EB	13.6	ft	R	6X6	3	106
L23	118+96.5 EB	4.7	ft	L	6X14	3	134
L24	118+95.8 EB	13.7	ft	R	6X6	3	122
L25	54+94.6 WB	13	ft	L	6X6	3	84
L26	54+94.5 WB	8.8	ft	L	6X6	3	104
L27	55+57.9 WB	50.9	ft	L	3X6	3	127
L28	55+65.3 WB	51.2	ft	L	3.5X6	3	184
L29	55+75.7 WB	50.9	ft	L	6X20	3	206
L30	56+40.4 WB	15.4	ft	L	3.5X6	3	123
							3589

3

TRAFFIC DETECTOR LOOPS

LOOP NO.	STATION	OFFSET		Curbline Reference	SIZE	NO. TURNS	655.08 LOOP DETECTOR WIRE LF
L31	56+40.4 WB	8.4	ft	L	6X20	3	200
L32	56+40.2 WB	2	ft	R	6X20	3	222
L33	58+07 WB	8.7	ft	L	6X6	3	88
L34	58+88.6 WB	8.8	ft	L	6X6	3	88
L35	121+33.6 EB	63.7	ft	R	6X6	3	130
L36	121+44.2 EB	63.9	ft	R	6X6	3	112
L37	120+71.8 EB	8	ft	L	6X20	3	170
L38	120+71.4 EB	2.5	ft	R	6X20	3	182
L39	120+71.5 EB	11.5	ft	R	3.5X6	3	171
L40	120+70.9 EB	19.6	ft	R	6X20	3	202
L41	56+23.8 WB	23.8	ft	L	6X14	3	136
L42	22+13.2 WB	26.1	ft	L	3.5X6	3	105
L43	33+13.9 WB	13.3	ft	L	6X14	3	146
L44	22+13.7 WB	3.2	ft	L	6X14	3	164
L45	86+32.4 EB	2.7	ft	R	6X14	3	166
L46	86+32.1 EB	13.1	ft	R	6X14	3	146
L47	101+74 EB	5.3	ft	L	6X6	3	92
L48	101+91.1 EB	5	ft	L	6X14	3	140
L49	101+90.8 EB	5.7	ft	R	6X14	3	160
L50	101+90.8 EB	16.3	ft	R	6X14	3	180
L51	37+60.3 WB	16	ft	L	6X14	3	148
L52	37+60.4 WB	5	ft	L	6X14	3	166
L53	37+83.7 WB	5.8	ft	R	6X6	3	112
L54	37+60.4 WB	5.9	ft	R	6X6	3	92
L55	39+96.3 EB	15.5	ft	L	6X6	3	98
L56	39+96.3 EB	26	ft	L	6X6	3	120
L57	99+63.5 WB	6.5	ft	R	6X6	3	92
L58	99+63.5 WB	16.5	ft	R	6X6	3	112
L59	100+80.2 WB	5.5	ft	L	6X6	3	92
L60	100+80.2 WB	3	ft	R	6X6	3	112
L61	100+80.2 WB	14	ft	R	6X6	3	132
L62	121+28.6 WB	188	ft	R	6X14	3	144
L63	121+17.3 EB	177.8	ft	R	6X6	3	126
L64	121+46.2 EB	64	ft	L	3.5X6	3	145
L65	121+55 EB	60.4	ft	R	6X14	3	154
L66	55+71.7 WB	111.1	ft	L	6X14	3	160
						TOTAL	8594

Offset is to front center of loop.

Curbline Reference:
- E: Curb EAST of loop
- W: Curb WEST of loop
- N: Curb NORTH of loop
- S: Curb SOUTH of loop

PAVEMENT MARKING EPOXY

STATION	TO	STATION	LOCATION	646.1020 4-INCH (WHITE) (LF)	646.1020 4-INCH (YELLOW) (LF)	646.3020 8-INCH (WHITE) (LF)	646.3020 8-INCH (YELLOW) (LF)	646.5020 ARROWS TYPE II (EACH)	646.5020 ARROWS BIKE LANE (EACH)	646.5120 WORDS (EACH)	646.5220 SYMBOLS BIKE LANE (EACH)	646.6120 STOP LINE 18-INCH (LF)	646.7120 DIAGONAL 12-INCH (LF)	646.7420 CROSSWALK 6-INCH (LF)
BRIDGE	-	18+50	COTTAGE GROVE RD	1741	2560	-	-	-	-	-	-	-	179	-
18+50	-	26+35	COTTAGE GROVE RD	2156	-	291	-	3	-	-	3	74	-	405
26+35	-	34+20	COTTAGE GROVE RD	2724	-	650	-	-	-	-	1	-	-	158
34+20	-	42+10	COTTAGE GROVE RD	2790	-	249	-	4	-	-	2	-	-	288
42+10	-	50+00	COTTAGE GROVE RD	3120	-	332	-	4	-	1	2	-	-	271
50+00	-	57+85	COTTAGE GROVE RD	2593	588	749	40	7	2	4	2	80	-	154
57+85	-	60+25	COTTAGE GROVE RD	500	1228	8	71	-	-	-	-	-	-	-
36+50	-	37+50	MCLEAN DR	21	-	-	-	-	-	-	-	26	-	117
45+00	-	45+50	MCCLELLAN DR	-	-	-	-	-	-	-	-	33	-	160
55+50	-	56+25	S SPRECHER RD	498	606	361	-	4	3	4	3	75	-	-
			SUBTOTALS	16143	4982	2640	111	22	5	9	13	288	179	1553
			TOTALS	21125		2751		22	5	9	13	288	179	1553

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

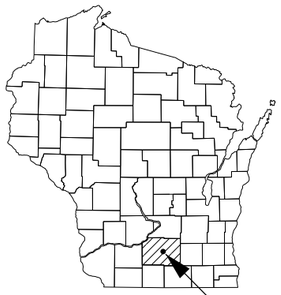
TRAFFIC CONTROL DEVICES

STAGE	STATION	TO	STATION	LOCATION	643.0300 DRUMS (DAYS)	643.0420 BARRICADES TYPE III (DAYS)	643.0500 TUBULAR MARKER POSTS (EACH)	643.0600 TUBULAR MARKER BASES (EACH)	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A (DAY)	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C (DAY)	643.0800 ARROW BOARDS (DAYS)	643.0900 TRAFFIC CONTROL SIGNS (DAYS)	643.1050 TRAFFIC CONTROL SIGNS PCMS (DAYS)
STAGE 1A	16+00	-	126+00	COTTAGE GROVE ROAD	4480	192	18	18	1992	384	-	320	14
STAGE 1B	52+50	-	58+80	COTTAGE GROVE ROAD	560	24	18	18	249	48	-	40	-
STAGE 1C	52+50	-	58+80	COTTAGE GROVE ROAD	560	24	18	18	249	48	-	40	-
STAGE 1D	52+50	-	58+80	COTTAGE GROVE ROAD	560	24	-	-	249	48	-	40	-
STAGE 2	16+00	-	126+00	COTTAGE GROVE ROAD	53200	2280	-	-	23655	4560	190	3800	14
STAGE 2A	40+00	-	52+50	COTTAGE GROVE ROAD	2240	96	-	-	996	192	8	160	-
STAGE 2B	21+00	-	25+00	COTTAGE GROVE ROAD	2240	96	-	-	996	192	-	160	-
STAGE 3	S THOMPSON DR	-	126+00	COTTAGE GROVE ROAD	34720	1488	-	-	15438	2976	124	2480	14
STAGE 3A	84+00	-	90+00	COTTAGE GROVE ROAD	1120	48	-	-	498	96	4	80	-
STAGE 3B	88+25	-	94+00	COTTAGE GROVE ROAD	1120	48	-	-	498	96	4	80	-
STAGE 3C	107+00	-	114+50	COTTAGE GROVE ROAD	1120	48	-	-	498	96	4	80	-
BICYCLE DETOUR	S THOMPSON DR	-	SPRECHER RD	COTTAGE GROVE ROAD	-	-	-	-	-	-	-	4368	-
INTERSTATE				I-90	6160	-	-	-	-	-	22	440	7
	TOTALS				108080	4368	54	54	45318	8736	356	12088	49

TEMPORARY PAVEMENT MARKINGS

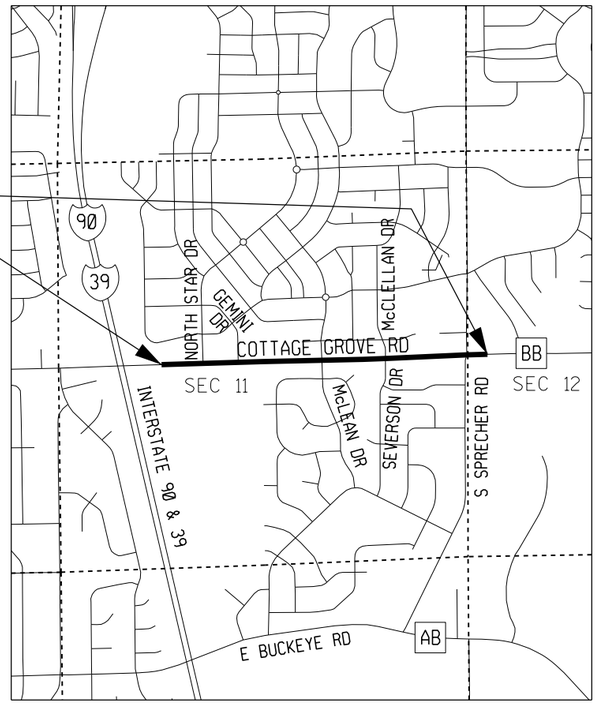
STAGE	STATION	TO	STATION	LOCATION	646.9000 REMOVE PAVEMENT MARKINGS 4-IN (LF)	646.9100 REMOVE PAVEMENT MARKINGS 8-IN (LF)	646.9300 REMOVE PAVEMENT MARKINGS SPECIAL (EACH)	649.0150 TEMPORARY PAVEMENT TAPE 4-IN WHITE (LF)	649.0150 TEMPORARY PAVEMENT TAPE 4-IN YELLOW (LF)	649.0850 TEMPORARY PAVEMENT TAPE 18-IN STOP LINE (LF)
STAGE 1A	16+00	-	126+00	COTTAGE GROVE ROAD	7200	5930	4	3646	5652	-
STAGE 1B	52+50	-	58+80	COTTAGE GROVE ROAD	-	-	-	1400	1500	15
STAGE 1C	52+50	-	58+80	COTTAGE GROVE ROAD	-	-	-	885	1974	-
STAGE 1D	52+50	-	58+80	COTTAGE GROVE ROAD	-	-	-	836	1420	-
STAGE 2	16+00	-	126+00	COTTAGE GROVE ROAD	-	-	-	3222	8200	-
STAGE 2A	40+00	-	52+50	COTTAGE GROVE ROAD	-	-	-	-	-	-
STAGE 2B	21+00	-	25+00	COTTAGE GROVE ROAD	-	-	-	-	-	-
STAGE 3	S THOMPSON DR	-	126+00	COTTAGE GROVE ROAD	-	-	-	1256	8510	-
STAGE 3A	84+00	-	90+00	COTTAGE GROVE ROAD	-	-	-	-	-	-
STAGE 3B	88+25	-	94+00	COTTAGE GROVE ROAD	-	-	-	-	-	-
STAGE 3C	107+00	-	114+50	COTTAGE GROVE ROAD	-	-	-	-	-	-
				TOTALS	7200	5930	4	11245	27256	15

TRANSPORTATION PROJECT PLAT TITLE SHEET
PROJECT NO. 5992-09-25
CITY OF MADISON, COTTAGE GROVE RD.
(NORTH STAR DR. - SPRECHER RD.)
CTH BB
DANE COUNTY



PROJECT LOCATION

T-7-N R-10-E



City of Madison

GN

LAYOUT

Scale 0 1/4 1/2MI.

NOTES:

HORIZONTAL POSITIONS SHOWN ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD 83 (1991) IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY ¾" X 24" REBAR) AND WILL BE PLACED UPON THE COMPLETION OF THE PROJECT CONSTRUCTION.

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

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

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

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

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

EXISTING ACCESS CONTROL ESTABLISHED FROM: CSM 4618, CSM 12762, CSM 12763, CSM 2676, CSM 353; SUBDIVISION PLATS: GRANDVIEW COMMONS, GRANDVIEW COMMONS REPLAT NO. 3, TOWN CENTER ADDN. TO GRANDVIEW COMMONS, FIRST ADDN. TO RICHMOND HILL, RICHMOND HILL, McCLELLAN ESTATES, COVERED BRIDGE, RAMBLING ACRES, MAYWICK ESTATES

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH BB ESTABLISHED FROM PREVIOUS DANE CO. HWY. DEPT. PROJ. NO. 1400, RECORDED PLATS, RECORDED CERTIFIED SURVEY MAPS, PLATS OF SURVEY AND EXISTING IRONS LOCATED IN THE FIELD. SEE SHEETS FOR SPECIFIC POINTS OF REFERENCE LISTED THEREON.

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

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

FOR LATEST ACCESS/DRIVEWAY INFORMATION CONTACT CITY OF MADISON TRAFFIC ENGINEERING AND CITY ENGINEERING.

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	MONUMENT	MON.
ACRES	AC.	POINT OF INTERSECTION	PI
ALUMINUM	ALUM.	PERMANENT LIMITED EASEMENT	PLE
AND OTHERS	ET.AL.	PROPERTY LINE	P.L.
CENTERLINE	C/L	RECORDED AS	(100')
CERTIFIED SURVEY MAP	CSM	REFERENCE LINE	R/L
CORNER	COR.	REMAINING	REM.
DOCUMENT NUMBER	DOC	RIGHT-OF-WAY	R/W
EASEMENT	EASE.	SANITARY SEWER	SAN.
GRID NORTH	GN	SECTION	SEC
HIGHWAY EASEMENT	H.E.	STATION	STA.
IRON PIPE	I.P.	TEMPORARY LIMITED EASEMENT	TLE
IRON ROD/REBAR	R.B.	UTILITY	UTIL.

CURVE DATA

POINT OF INTERSECTION	PI
POINT OF CURVE	PC
POINT OF TANGENCY	PT
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	Δ
LENGTH OF CURVE	L
TANGENT	T
LONG CHORD	LCH
LONG CHORD BEARING	LCB

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/ROD	LP (SIZE & TYPE NOTED)	PROPOSED R/W LINE	
		EXISTING R/W LINE	
R/W MONUMENT	(TO BE SET)	PROPERTY LINE	P.L.
NON-MONUMENTED R/W POINT		PROPOSED EASE. LINE	
SECTION CORNER MONUMENT		EXISTING EASE. LINE	
SECTION CORNER SYMBOL		LOT & TIE LINES	
		CORPORATE LIMITS	
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL, GRANT)	
PERMANENT LIMITED EASEMENT (PLE)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT (TLE)		NO ACCESS (BY STATUTORY AUTHORITY)	
R/W BOUNDARY POINT	101	SECTION LINE	
PARCEL NUMBER	10	QUARTER LINE	
UTILITY PARCEL NUMBER	92	SIXTEENTH LINE	
		EXISTING CENTERLINE	
BUILDING		PROPOSED REFERENCE LINE	
BUILDING TO BE RAZED		PARALLEL OFFSET	60' 15'
SIGN	I SIGN	SLOPE INTERCEPT	

CONVENTIONAL UTILITY SYMBOLS

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

HIGHWAY DESIGNATIONS

COUNTY TRUNK HIGHWAY	#
STATE TRUNK HIGHWAY	#
UNITED STATES HIGHWAY	#
INTERSTATE HIGHWAY	#

PROJECT NUMBER 5992-09-25 - 4.01
SHEET 2 OF 2

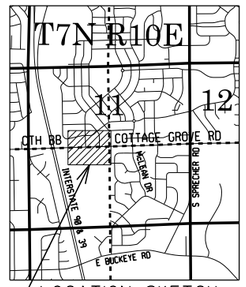
I, JEFFREY R. OUAMME, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095 OF THE WISCONSIN STATE STATUTES AND UNDER THE DIRECTION OF CITY OF MADISON, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 5992-09-25 - 4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN — JEFFREY R. OUAMME S-1922 DEERFIELD, WI — LAND SURVEYOR

(SIGNATURE)_____ / /2019

(PRINTED NAME) JEFFREY R. OUAMME

(REGISTRATION NO.) S-1922



LOCATION SKETCH
NOT TO SCALE

SHEET LOCATION

GN

0 50 100

SCALE, FEET

TRANSPORTATION PROJECT PLAT NO: 5992-09-25 - 4.01

PART OF THE SE 1/4 - NW 1/4 & NE 1/4 - SW 1/4 OF SECTION 11, T7N, R10E, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER COTTAGE GROVE RD/CTH BB, NORTH STAR DR. - SPRECHER RD, DANE COUNTY, WISCONSIN

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF MADISON HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY OF MADSION FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MADISON, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

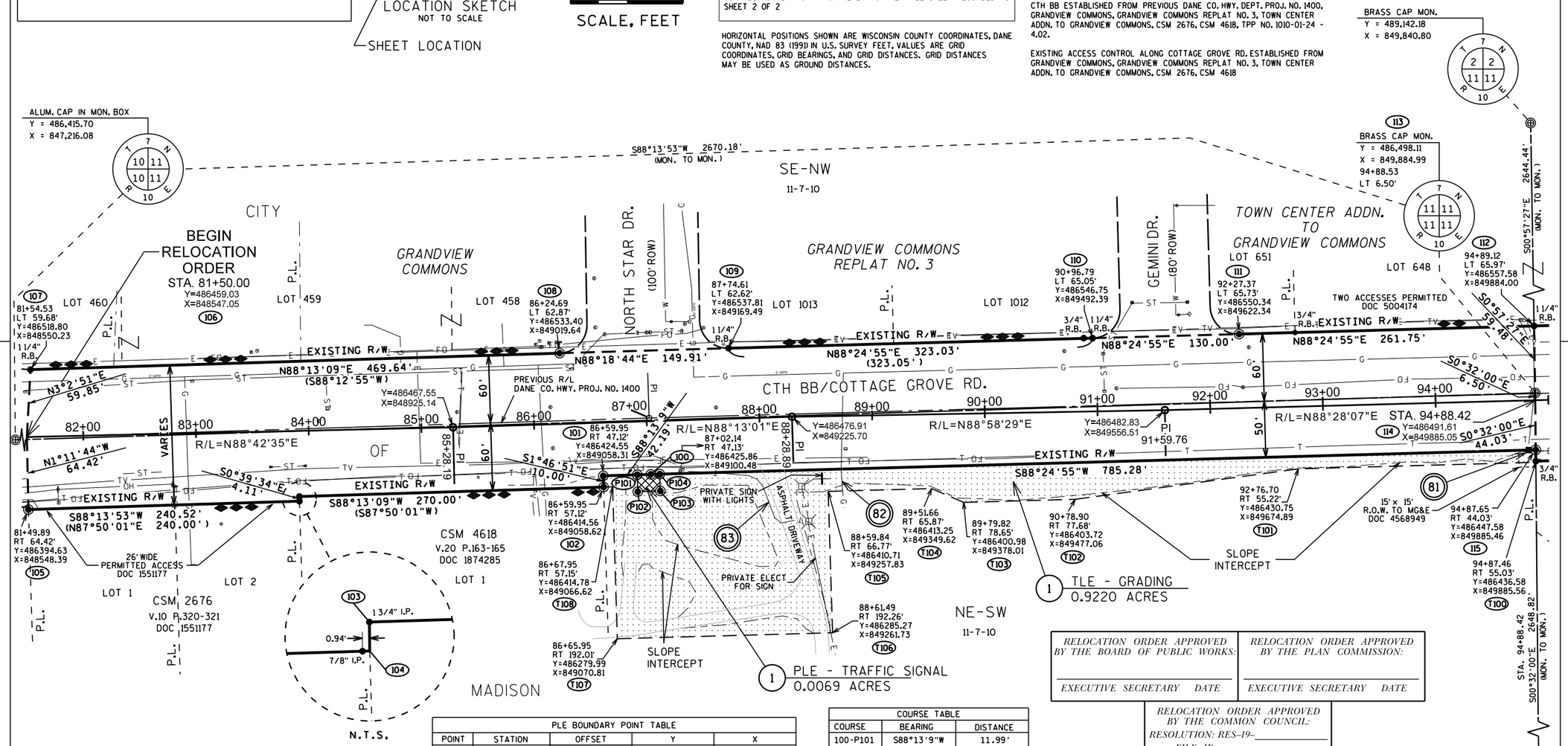
FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET RECORDED AS SHEET 2 OF 2

HORIZONTAL POSITIONS SHOWN ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD 83 (1991) IN U.S. SURVEY FEET, VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

EXISTING HIGHWAY RIGHT-OF-WAY AS SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH BB ESTABLISHED FROM PREVIOUS DANE CO. HWY. DEPT. PROJ. NO. 1400, GRANDVIEW COMMONS, GRANDVIEW COMMONS REPLAT NO. 3, TOWN CENTER ADDN. TO GRANDVIEW COMMONS, CSM 2676, CSM 4618, TPP NO. 1010-01-24 - 4.02.

EXISTING ACCESS CONTROL ALONG COTTAGE GROVE RD. ESTABLISHED FROM GRANDVIEW COMMONS, GRANDVIEW COMMONS REPLAT NO. 3, TOWN CENTER ADDN. TO GRANDVIEW COMMONS, CSM 2676, CSM 4618

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 5992-09-25 - 4.01
SHEET 1 OF 2



PLE BOUNDARY POINT TABLE				
POINT	STATION	OFFSET	Y	X
P101	86+90.15	RT 47.13'	486425.49	849088.49
P102	86+90.15	RT 62.13'	486410.50	849088.96
P103	87+10.15	RT 62.13'	486411.12	849108.95
P104	87+10.15	RT 47.15'	486426.08	849108.48

COURSE TABLE		
COURSE	BEARING	DISTANCE
100-P101	S88°13'9"W	11.99'
P101-P102	S1°46'51"E	15.00'
P102-P103	N88°13'9"E	20.00'
P103-P104	N1°46'51"W	14.97'
P104-P100	S88°24'55"W	8.01'

RELOCATION ORDER APPROVED BY THE BOARD OF PUBLIC WORKS:

_____
EXECUTIVE SECRETARY DATE

RELOCATION ORDER APPROVED BY THE PLAN COMMISSION:

_____
EXECUTIVE SECRETARY DATE

RELOCATION ORDER APPROVED BY THE COMMON COUNCIL:
RESOLUTION: RES-19-_____
FILE ID: _____

_____
CITY CLERK DATE

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LANDS TO THE CITY OF MADISON.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	PLE (S.F.)	TLE (S.F.)
1	SCHOENSTATT SISTERS OF MARY OF THE CATHOLIC APOSTOLATE N/K/A SECULAR INSTITUTE OF THE SCHOENSTATT SISTERS OF MARY, INC.	PLE/TLE	-	-	-	300	40,162

UTILITY NUMBER	UTILITY SCHEDULE & INTEREST	PARCEL AFFECTED - RECORDING INFO.	INTEREST REQUIRED
81	MG&E - ELECTRIC	1 - DOC 4568949	RELEASE OF RIGHTS
82	MG&E - GAS	1 - NO ESMT OF RECORD	RELEASE OF RIGHTS
83	AT&T	1 - NO ESMT OF RECORD	RELEASE OF RIGHTS

FILE NAME : M:\DESIGN\Projects\53W0472\Survey\Drawings\TPP\SHEET 1.dgn PLOT DATE : 4/30/2019 PLOT BY : djs APPRAISAL PLAT DATE :

5992-09-25 - 4.01

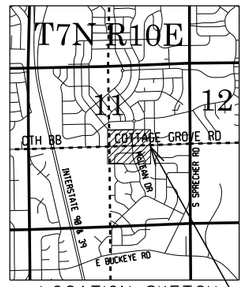
I, JEFFREY R. OUAMME, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095 OF THE WISCONSIN STATE STATUTES AND UNDER THE DIRECTION OF CITY OF MADISON, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 5992-09-25 - 4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN — JEFFREY R. OUAMME S-1922 DEERFIELD, WI — LAND SURVEYOR

(SIGNATURE)_____ / /2019

(PRINTED NAME) JEFFREY R. OUAMME

(REGISTRATION NO.) S-1922



LOCATION SKETCH
NOT TO SCALE

SHEET LOCATION

GN

0 50 100

SCALE, FEET

TRANSPORTATION PROJECT PLAT NO: 5992-09-25 - 4.02

PART OF THE SW 1/4 - NE 1/4 & NW 1/4 - SE 1/4 OF SECTION 11, T7N, R10E, CITY OF MADISON, DANE COUNTY, WISCONSIN.

COTTAGE GROVE RD/CTH BB, NORTH STAR DR. - SPRECHER RD, DANE COUNTY, WISCONSIN

THE CITY OF MADISON HAS DEEMED IT NECESSARY TO MONUMENT RIGHT-OF-WAY INTERESTS PREVIOUSLY ACQUIRED UNDER SECTIONS 82.01, 82.31(1), 82.31.2, 84.09, 62.22 OR DEDICATED UNDER SECTION 236.29 OF THE WISCONSIN STATUTES AND DOES HEREBY CERTIFY THE CITY OF MADISON HAS SURVEYED THE HIGHWAY RIGHT-OF-WAY AND THAT THIS PLAT IS A TRUE AND CORRECT REPRESENTATION OF THE EXTERIOR BOUNDARIES OF THE LAND SURVEYED AND SHOWS THE MEASUREMENTS THEREOF.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN DANE COUNTY, AS SHEET 2 OF 2 OF DOCUMENT _____

EXISTING HIGHWAY RIGHT-OF-WAY IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH BB ESTABLISHED FROM PREVIOUS DANE CO. HWY. DEPT. PROJ. NO. 1400, TOWN CENTER ADDN. TO GRANDVIEW COMMONS, FIRST ADDN. TO RICHMOND HILL, RICHMOND HILL, CSM 12110, CSM 12762 AND CSM 12763.

EXISTING ACCESS CONTROL ALONG COTTAGE GROVE RD. ESTABLISHED FROM TOWN CENTER ADDN. TO GRANDVIEW COMMONS, FIRST ADDN. TO RICHMOND HILL, RICHMOND HILL, CSM 12110, CSM 12762 AND CSM 12763.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 5992-09-25 - 4.02

HORIZONTAL POSITIONS SHOWN ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD 83 (1991) IN U.S. SURVEY FEET, VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

BRASS CAP MON.
Y = 489,142.18
X = 849,840.80

BRASS CAP MON.
Y = 486,591.53
X = 852,552.15

S87°59'38"W 2668.80'
(MON. TO MON.)

S00°57'27"E 2644.44'
(MON. TO MON.)

(113) BRASS CAP MON.
Y = 486,498.11
X = 849,884.99
94+88.53
LT 6.50'

(112) 94+89.12
LT 65.97'
Y=486557.58
X=849884.00

LOT 648
TWO ACCESSES PERMITTED
DOC 5004174

EXISTING R/W
N88°24'55"E 688.40'
N0°57'27"W 59.48'
N0°32'00"W 6.50'
CTH BB/COTTAGE GROVE RD.
R/L=N88°28'07"E
95+00 96+00 97+00 98+00 99+00 100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00

STA. 94+88.42
Y=486491.61
X=849885.05
(114)
N0°32'00"W 44.03'
N0°32'00"W 10.00'
SLOPE INTERCEPT

94+87.65
RT 44.03'
Y=486447.58
X=849885.46
(115)
94+87.47
RT 54.03'
Y=486437.58
X=849885.55
(207)
LOT 201

S88°24'55"W 689.96'
(N88°01'34"E 690.19')

LOT 202 LOT 203 LOT 204 LOT 45

FIRST ADDN. TO RICHMOND HILL

TOWN CENTER ADDN. TO GRANDVIEW COMMONS

CITY OF MADISON

OL 32

(200) 101+77.52
LT 66.62'
Y=486576.62
X=850572.13

N88°24'55"E 150.00'

PREVIOUS R/L
DANE CO. HWY. PROJ. NO. 1400

Y=486512.03
X=850648.70

S88°24'55"W 150.00'

(201) 103+27.88
LT 66.34'
Y=486580.77
X=850722.07

101+77.43
RT 53.38'
Y=486456.66
X=850575.25

LOT 46 (206)

103+27.14
RT 53.65'
Y=486460.81
X=850725.19
(205)

McLEAN DR. (100' ROW)

CSM 12110
V.74 P.328-332
DOC 4296353

LOT 1

CSM 12762
V.80 P.308-311
DOC 4593293

LOT 900 LOT 901 LOT 902 LOT 903 LOT 904

EXISTING R/W
N88°24'55"E 494.33'
(S88°01'34"W 493.69')

CTH BB/COTTAGE GROVE RD.
R/L=N88°09'15"E
Y=486525.86
X=851078.04

S88°24'55"W 493.81'

LOT 1 LOT 2 LOT 3 LOT 4 LOT 5

SLOPE INTERCEPT

RICHMOND HILL

CSM 12763
V.80 P.312-315
DOC 4593294

LOT 905

(202) 108+24.10
LT 63.54'
Y=486594.51
X=851217.84

N87°29'55"E 1.63'

108+22.47
LT 63.53'
Y=486594.44
X=851216.22

S6°57'11"W 64.34'

(203) Y=486491.61
X=849885.05
STA. 108+14.00

R/L=N87°55'27"E
S8°51'42"E 56.86'

108+20.72
RT 56.46'
Y=486474.47
X=851218.81
(204)

40 LINE

STA. 94+88.42
S00°32'00"E 2648.82'
(MON. TO MON.)

BRASS CAP MON.
Y = 483,849.40
X = 849,909.65

MADISON

RELOCATION ORDER APPROVED BY THE BOARD OF PUBLIC WORKS:	RELOCATION ORDER APPROVED BY THE PLAN COMMISSION:
EXECUTIVE SECRETARY DATE	EXECUTIVE SECRETARY DATE

RELOCATION ORDER APPROVED BY THE COMMON COUNCIL:
RESOLUTION: RES-19-_____
FILE ID: _____

CITY CLERK DATE

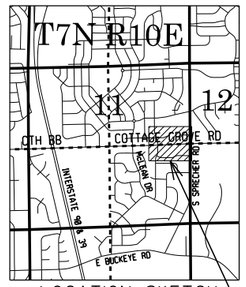
I, JEFFREY R. OUAMME, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095 OF THE WISCONSIN STATE STATUTES AND UNDER THE DIRECTION OF CITY OF MADISON, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 5992-09-25 - 4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN JEFFREY R. QUAMME S-1922 DEERFIELD, WI LAND SURVEYOR

(SIGNATURE) _____ / /2019

(PRINTED NAME) JEFFREY R. OUAMME

(REGISTRATION NO.) S-1922



LOCATION SKETCH
NOT TO SCALE

SHEET LOCATION

GN

0 50 100

SCALE, FEET

TRANSPORTATION PROJECT PLAT NO: 5992-09-25 - 4.03

PART OF THE SE 1/4 - NE 1/4 & NE 1/4 - SE 1/4 OF SECTION 11, T7N, R10E, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER COTTAGE GROVE RD/CTH BB, NORTH STAR DR. - SPRECHER RD, DANE COUNTY, WISCONSIN

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF MADISON HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY OF MADISON FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MADISON, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

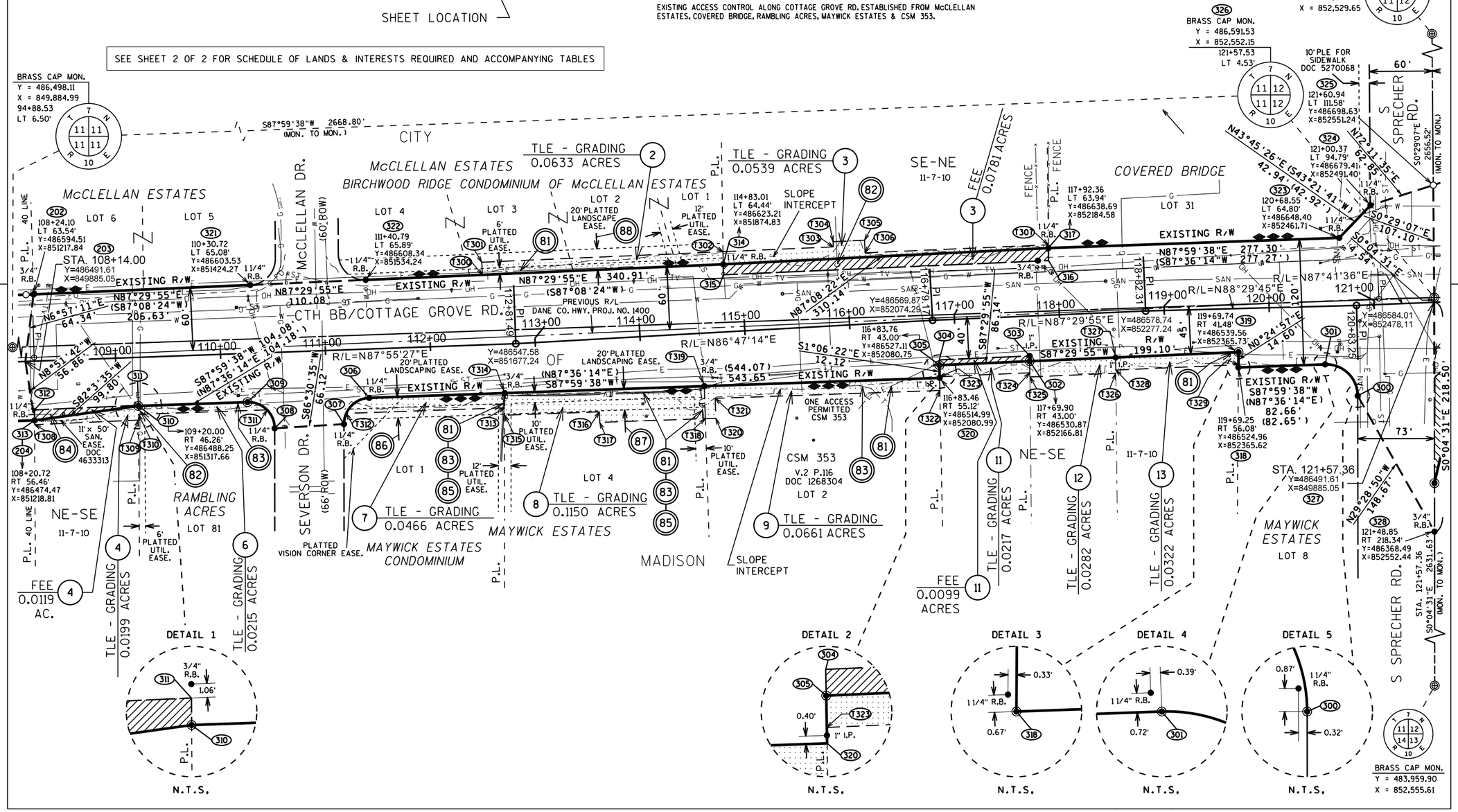
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 5992-09-25 - 4.03
SHEET 1 OF 2

EXISTING HIGHWAY RIGHT-OF-WAY IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH BB ESTABLISHED FROM PREVIOUS DANE CO. HWY. DEPT. PROJ. NO. 1400, McCLELLAN ESTATES, COVERED BRIDGE, RAMBLING ACRES, MAYWICK ESTATES, CSM 353 & PAULSON PLAT OF SURVEY - DANE CO. NO. 94-0008.

EXISTING ACCESS CONTROL ALONG COTTAGE GROVE RD. ESTABLISHED FROM McCLELLAN ESTATES, COVERED BRIDGE, RAMBLING ACRES, MAYWICK ESTATES & CSM 353.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN DANE COUNTY, AS SHEET 2 OF 2 OF DOCUMENT _____

SEE SHEET 2 OF 2 FOR SCHEDULE OF LANDS & INTERESTS REQUIRED AND ACCOMPANYING TABLES



4

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LANDS TO THE CITY OF MADISON.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W REQUIRED (S.F.)			PLE (S.F.)	TLE (S.F.)
			NEW	EXISTING	TOTAL		
2	BIRCHWOOD RIDGE CDMS OF McCLELLAN ESTATES HOMEOWNERS ASSN, INC.	TLE	-	-	-	-	2,758
3	DANIEL J. LYNCH	FEE/TLE	3,402	-	3,402	-	2,346
4	YONG & AMANDA LYNN CHEN	FEE/TLE	519	-	519	-	867
6	JOHN R. COOK & RYAN D. CONSTANT	TLE	-	-	-	-	935
7	MAYWICK ESTATES CONDOMINIUM UNITOWNERS ASSOCIATION, INC.	TLE	-	-	-	-	2,029
8	FIELDSTONE ESTATES, LLC	TLE	-	-	-	-	5,009
9	U.S. BANK NATIONAL ASSOCIATION	TLE	-	-	-	-	2,881
11	BRIAN C. HOSKING	FEE/TLE	431	-	431	-	947
12	RENO K. & LYNNE M. GEHRKE	TLE	-	-	-	-	1,229
13	RICHARD NEUHENGEN	TLE	-	-	-	-	1,405

UTILITY NUMBER	UTILITY SCHEDULE & INTEREST	PARCEL AFFECTED - RECORDING INFO.	INTEREST REQUIRED
81	MG&E - ELECTRIC	2 - UTILITY EASE. PLAT OF McCLELLAN ESTATES (DOC 2998387) 7&8 - UTILITY EASE. PLAT OF MAYWICK ESTATES (DOC 3881503) 9 - NO EASEMENT OF RECORD 13 - NO EASEMENT OF RECORD	RELEASE OF RIGHTS
82	MG&E - GAS	3 - NO EASEMENT OF RECORD 6 - UTILITY EASE. PLAT OF RAMBLING ACRES (DOC 1218596)	RELEASE OF RIGHTS RELEASE OF RIGHTS
83	AT&T	6 - NO EASEMENT OF RECORD 7&8 - UTILITY EASE. PLAT OF MAYWICK ESTATES (DOC 3881503) 9 - NO EASEMENT OF RECORD	RELEASE OF RIGHTS RELEASE OF RIGHTS RELEASE OF RIGHTS
84	CITY OF MADISON	4 - PUBLIC SANITARY SEWER EASEMENT (DOC 4633313)	RELEASE OF RIGHTS
85	CHARTER	7&8 - UTILITY EASE. PLAT OF MAYWICK ESTATES (DOC 3881503)	RELEASE OF RIGHTS
86	MAYWICK ESTATES CONDOMINIUM UNITOWNERS ASSOCIATION, INC.	7 - LANDSCAPING EASE. PLAT OF MAYWICK ESTATES (DOC 3881503)	RELEASE OF RIGHTS
87	FIELDSTONE ESTATES, LLC	8 - LANDSCAPING EASE. PLAT OF MAYWICK ESTATES (DOC 3881503) & MAINTENANCE OF RETAINING WALL DOC 4259793	RELEASE OF RIGHTS
88	BIRCHWOOD RIDGE CDMS OF McCLELLAN ESTATES HOMEOWNERS ASSN, INC.	2 - LANDSCAPING EASE. PLAT OF McCLELLAN ESTATES (DOC 2998387)	RELEASE OF RIGHTS

R/W BOUNDARY POINT TABLE				
POINT	STATION	OFFSET	Y	X
300	120+82.16	RT 86.10'	486497.91	852479.28
301	120+51.90	RT 55.35'	486527.85	852448.23
306	111+40.15	RT 46.53'	486495.96	851537.67
307	111+15.13	RT 70.65'	486470.96	851513.55
308	110+49.03	RT 72.28'	486466.93	851447.55
309	110+24.08	RT 46.39'	486491.90	851421.68

EXISTING R/W POINT TABLE				
POINT	STATION	OFFSET	Y	X
303	117+70.07	RT 38.00'	486535.87	852166.76
304	116+83.88	RT 38.00'	486532.11	852080.66
311	109+20.01	RT 45.75'	486488.77	851317.65
312	108+21.03	RT 46.49'	486484.45	851218.76
315	114+82.60	LT 54.44'	486613.21	851874.98
316	117+91.96	LT 52.00'	486626.74	852184.70

TLE BOUNDARY POINT TABLE				
POINT	STATION	OFFSET	Y	X
T300	112+52.04	LT 66.72'	486613.19	851645.39
T301	112+51.95	LT 78.72'	486625.18	851644.87
T302	114+83.50	LT 76.43'	486635.22	851874.65
T303	115+88.64	LT 75.13'	486639.81	851979.69
T304	115+88.70	LT 80.13'	486644.80	851979.47
T305	116+18.70	LT 79.76'	486646.11	852009.45
T306	116+18.55	LT 67.76'	486634.12	852009.97
T307	117+92.46	LT 67.00'	486641.75	852184.55
T308	108+20.59	RT 60.49'	486470.44	851218.83
T309	109+19.61	RT 59.75'	486474.76	851317.76
T310	109+19.77	RT 54.26'	486480.25	851317.72
T311	110+42.40	RT 54.41'	486484.54	851440.28
T312	111+17.68	RT 60.51'	486481.18	851515.73
T313	112+68.74	RT 60.69'	486486.47	851666.69
T314	112+69.25	RT 46.69'	486500.48	851666.69
T315	112+68.48	RT 67.69'	486479.47	851666.69
T316	113+57.35	RT 69.32'	486482.62	851756.86
T317	113+57.14	RT 79.32'	486472.63	851757.21
T318	114+57.75	RT 81.43'	486476.15	851857.78
T319	114+58.52	RT 50.44'	486507.14	851856.82
T320	114+67.75	RT 81.65'	486476.50	851867.78
T321	114+68.22	RT 62.65'	486495.49	851867.19
T322	116+83.17	RT 67.12'	486502.99	852081.22
T323	116+83.49	RT 54.00'	486516.11	852080.96
T324	117+69.53	RT 54.00'	486519.86	852166.93
T325	117+69.40	RT 58.00'	486515.86	852166.97
T326	118+51.35	RT 58.00'	486519.44	852248.84
T327	118+51.85	RT 43.00'	486534.45	852248.68
T328	118+51.45	RT 55.00'	486522.44	852248.80
T329	119+69.34	RT 53.49'	486527.54	852365.64

R/W CURVE TABLE					
FROM - TO	CURVE LENGTH	CENTRAL ANGLE	CHORD LENGTH	CHORD BEARING	RADIUS
300 - 301	48.13'	91°55'45"	43.13'	N 46°02'29" W	30.00'
306 - 307	38.41'	88°02'14"	34.74'	S 43°58'31" W	25.00'
308 - 309	40.13'	91°57'46"	35.96'	N 46°01'29" W	25.00'

COURSE TABLE		
COURSE	BEARING	DISTANCE
302-303	N0°35'32"W	5.00'
303-304	S87°29'55"W	86.19'
304-305	S1°06'22"E	5.00'
310-311	N0°25'11"W	0.51'
311-312	S87°29'55"W	98.99'
312-313	S0°18'29"E	9.98'
314-315	S0°51'15"E	10.00'
315-316	N87°29'55"E	310.02'
316-317	N0°36'29"W	11.95'

R/L PI COORDINATES TABLE		
PI STATION	Y	X
112+81.49	486547.58	851677.24
116+79.17	486569.87	852074.29
118+82.31	486578.74	852277.24
120+83.25	486584.01	852478.11

RELOCATION ORDER APPROVED BY THE BOARD OF PUBLIC WORKS:

EXECUTIVE SECRETARY DATE

RELOCATION ORDER APPROVED BY THE PLAN COMMISSION:

EXECUTIVE SECRETARY DATE

RELOCATION ORDER APPROVED BY THE COMMON COUNCIL:

RESOLUTION: RES-19-_____

FILE ID: _____

CITY CLERK DATE

TPP NUMBER 5992-09-25 - 4.03
SHEET 2 OF 2

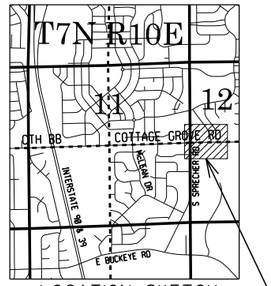
I, JEFFREY R. OUAMME, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095 OF THE WISCONSIN STATE STATUTES AND UNDER THE DIRECTION OF CITY OF MADISON, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 5992-09-25 - 4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN — JEFFREY R. OUAMME S-1922 DEERFIELD, WI — LAND SURVEYOR

(SIGNATURE)_____ / /2019

(PRINTED NAME) JEFFREY R. OUAMME

(REGISTRATION NO.) S-1922



LOCATION SKETCH
NOT TO SCALE

GN

0 50 100
SCALE, FEET

SHEET LOCATION

TRANSPORTATION PROJECT PLAT NO: 5992-09-25 - 4.04

PART OF THE SW 1/4 - NW 1/4 & NW 1/4 - SW 1/4 OF SECTION 12, T7N, R10E, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER COTTAGE GROVE RD/CTH BB, NORTH STAR DR. - SPRECHER RD, DANE COUNTY, WISCONSIN

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

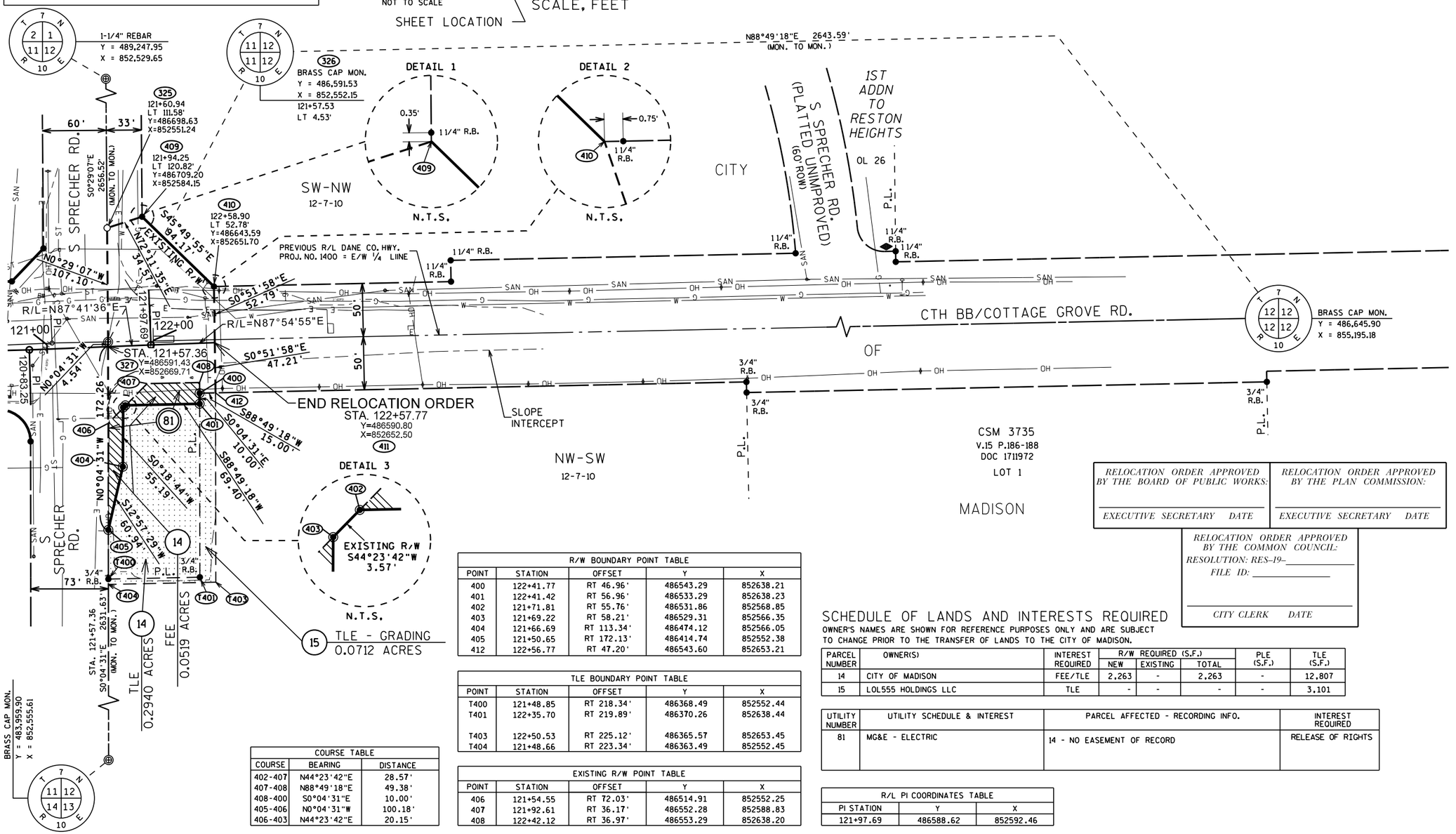
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF MADISON HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY OF MADISON FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MADISON, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN DANE COUNTY, AS SHEET 2 OF 2 OF DOCUMENT _____

EXISTING HIGHWAY RIGHT-OF-WAY IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH BB ESTABLISHED FROM PREVIOUS DANE CO. HWY. DEPT. PROJ. NO. 1400, FIRST ADDN. TO RESTON HEIGHTS AND CSM 3735.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 5992-09-25 - 4.04



R/W BOUNDARY POINT TABLE				
POINT	STATION	OFFSET	Y	X
400	122+41.77	RT 46.96'	486543.29	852638.21
401	122+41.42	RT 56.96'	486533.29	852638.23
402	121+71.81	RT 55.76'	486531.86	852568.85
403	121+69.22	RT 58.21'	486529.31	852566.35
404	121+66.69	RT 113.34'	486474.12	852566.05
405	121+50.65	RT 172.13'	486414.74	852552.38
412	122+56.77	RT 47.20'	486543.60	852653.21

TLE BOUNDARY POINT TABLE				
POINT	STATION	OFFSET	Y	X
T400	121+48.85	RT 218.34'	486368.49	852552.44
T401	122+35.70	RT 219.89'	486370.26	852638.44
T403	122+50.53	RT 225.12'	486365.57	852653.45
T404	121+48.66	RT 223.34'	486363.49	852552.45

EXISTING R/W POINT TABLE				
POINT	STATION	OFFSET	Y	X
406	121+54.55	RT 72.03'	486514.91	852552.25
407	121+92.61	RT 36.17'	486552.28	852588.83
408	122+42.12	RT 36.97'	486553.29	852638.20

COURSE TABLE		
COURSE	BEARING	DISTANCE
402-407	N44°23'42"E	28.57'
407-408	N88°49'18"E	49.38'
408-400	S0°04'31"E	10.00'
405-406	N0°04'31"W	100.18'
406-403	N44°23'42"E	20.15'

RELOCATION ORDER APPROVED BY THE BOARD OF PUBLIC WORKS:	RELOCATION ORDER APPROVED BY THE PLAN COMMISSION:
EXECUTIVE SECRETARY DATE	EXECUTIVE SECRETARY DATE

RELOCATION ORDER APPROVED BY THE COMMON COUNCIL:
RESOLUTION: RES-19-_____
FILE ID: _____

CITY CLERK DATE

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LANDS TO THE CITY OF MADISON.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W REQUIRED (S.F.) NEW	EXISTING	TOTAL	PLE (S.F.)	TLE (S.F.)
14	CITY OF MADISON	FEE/TLE	2,263	-	2,263	-	12,807
15	LOL555 HOLDINGS LLC	TLE	-	-	-	-	3,101

UTILITY NUMBER	UTILITY SCHEDULE & INTEREST	PARCEL AFFECTED - RECORDING INFO.	INTEREST REQUIRED
81	MG&E - ELECTRIC	14 - NO EASEMENT OF RECORD	RELEASE OF RIGHTS

R/L PI COORDINATES TABLE		
PI STATION	Y	X
121+97.69	486588.62	852592.46

BEGIN PROJECT 5992-09-26
STA 81+62 & STA 16+05
MILL & OVERLAY LIMITS
MATCH EXISTING
PROJECT 5992-09-27 TO WEST

0710-112-1903-9
JUPITER CROSSING LLC
834 Jupiter Dr

0710-112-1910-4
SHIELDS PROPERTIES LLC
842 Jupiter Dr

0710-112-1901-3
VERIDIAN HOMES FBB LLC
858 Jupiter Dr

CITY OF MADISON STORM SEWER
MG&E ELEC
AT&T
WIN
CHARTER
MG&E GAS
EXISTING RIGHT-OF-WAY
6" PE GAS MAIN
CITY OF MADISON TRAFFIC ENG
NORTH STAR DR
COTTAGE GROVE RD WB R/L
COTTAGE GROVE RD EB R/L
POB 16+00.00
POB 81+00.00
PI 18+25.00
PI 85+21.19
MATCHLINE STA 87'EB +00.00 & 21'EB +50.00
MG&E OVERHEAD ELEC
EXISTING RIGHT-OF-WAY
ASPHALTIC FLUME
SLOPE INTERCEPT (TYP)
PC 200+39.47

0710-113-0904-6
HOVDE REALTY INC
101
5809 Cottage Grove Rd

0710-113-0905-4
HOVDE REALTY INC
101
5817 Cottage Grove Rd

0710-113-0906-2
SCHOENSTATT SISTERS OF MARY
5825 Cottage Grove Rd

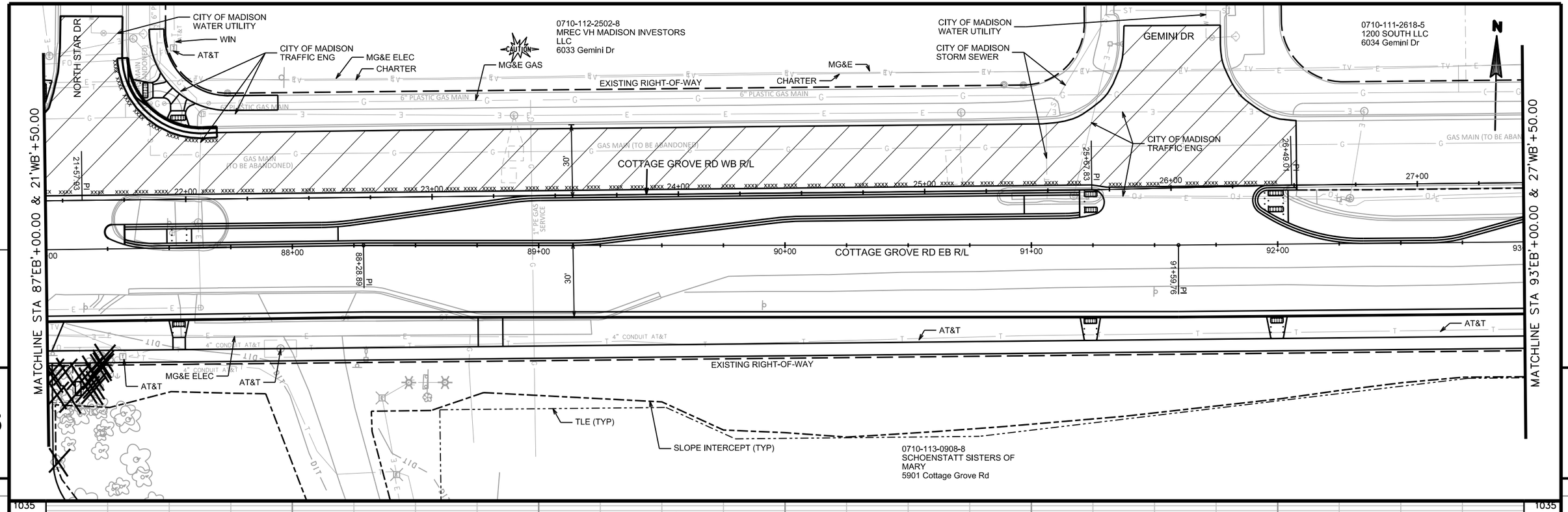
MATCH EXISTING PROFILE WITH MILL & OVERLAY

WESTBOUND PROFILE
VPI 20+70.00 1021.00
2.13%
CURVE L = 170.00'
K=150.92'
VPC STA 20+75.00
VPC ELV 1021.11

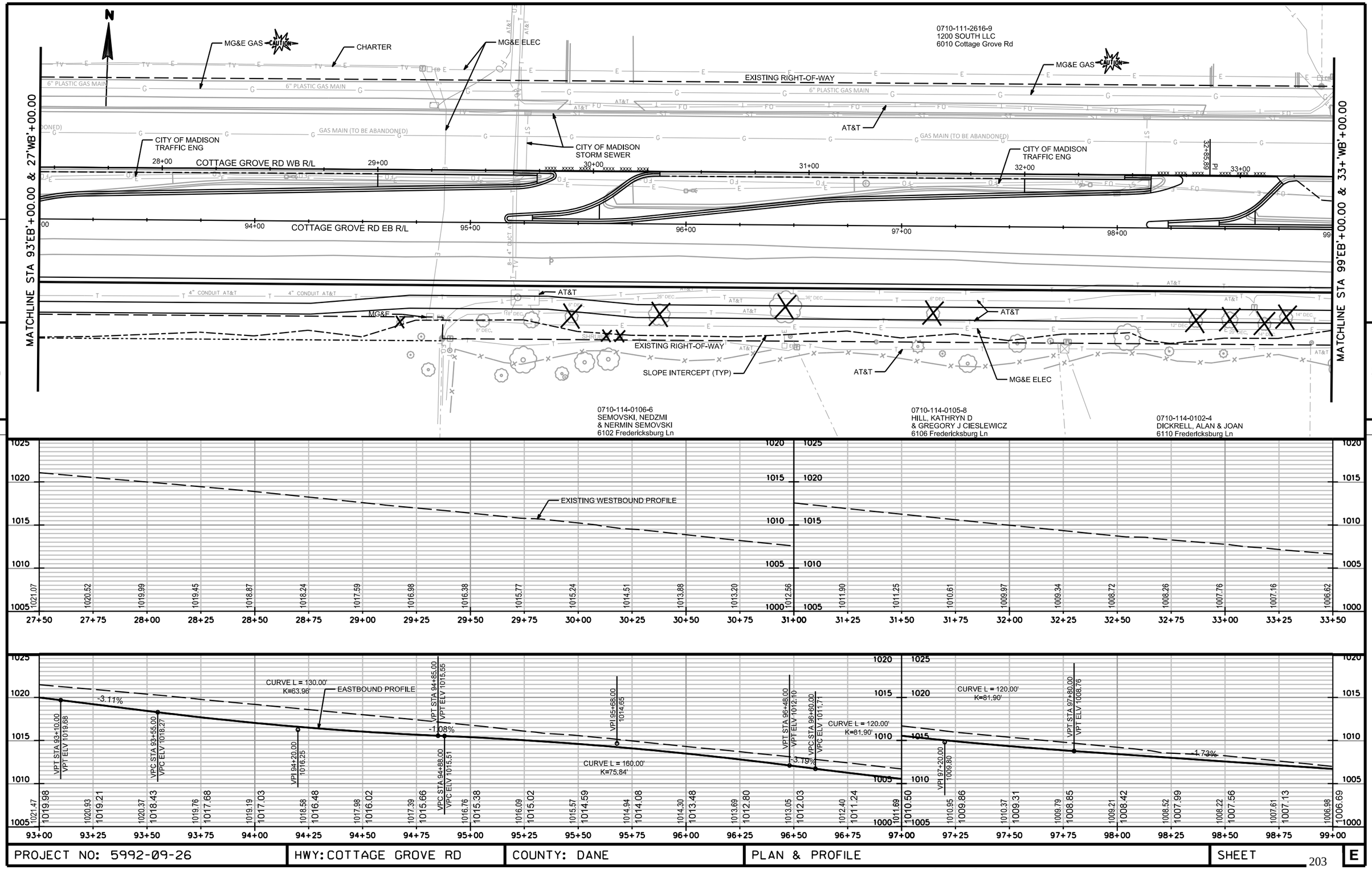
MATCH EXISTING PROFILE WITH MILL & OVERLAY

VPI 84+08.00 1014.98
3.50%
VPI 84+40.53 1016.29
3.09%
VPI 84+75.00 1017.36
3.06%
VPI 85+10.00 1018.43
2.52%
VPI 85+52.00 1019.49
1.86%
VPI 86+25.00 1020.85
1.53%
EASTBOUND PROFILE

PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PLAN & PROFILE	SHEET	E



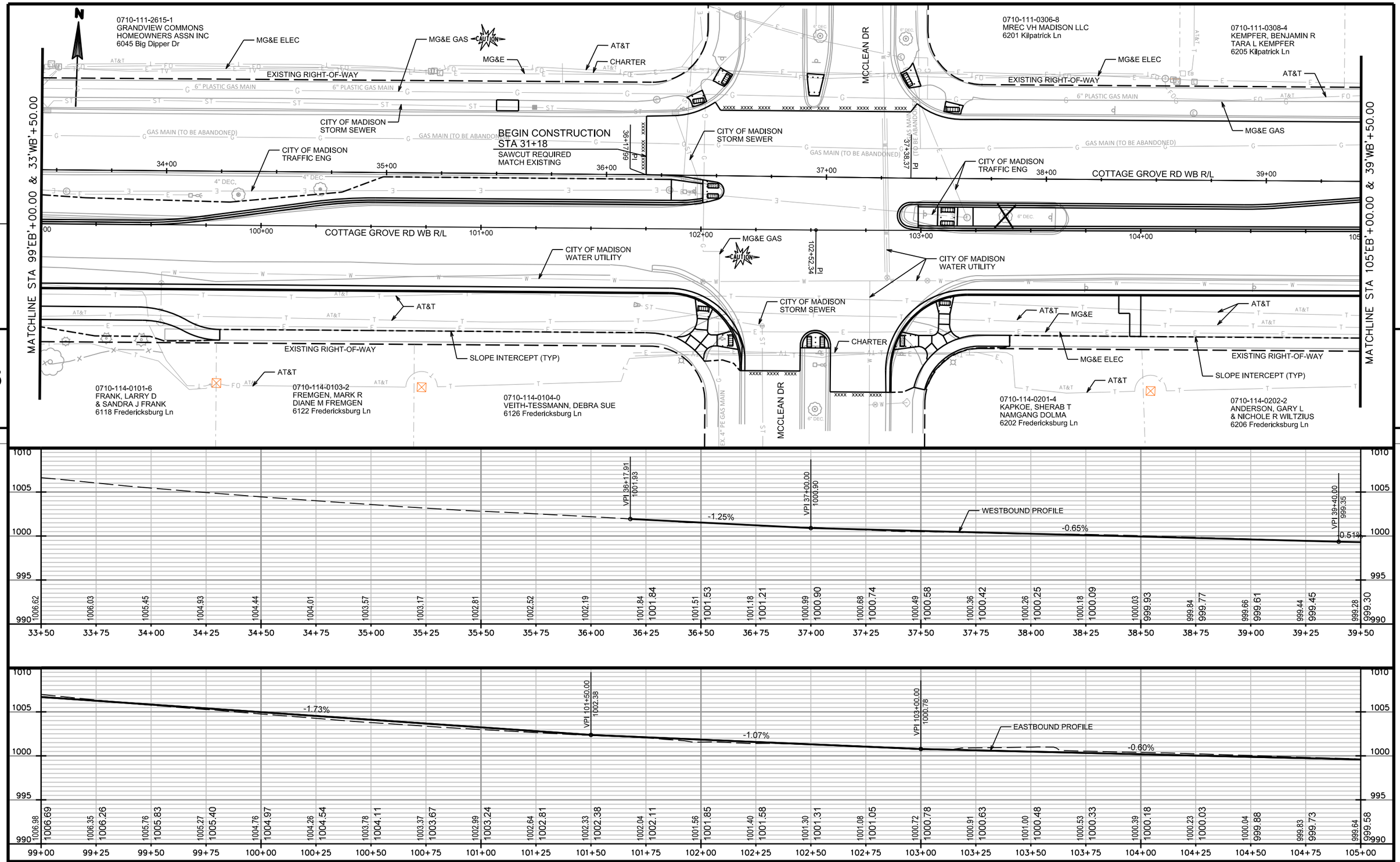
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PLAN & PROFILE	SHEET	E



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PLAN & PROFILE	SHEET 203 E

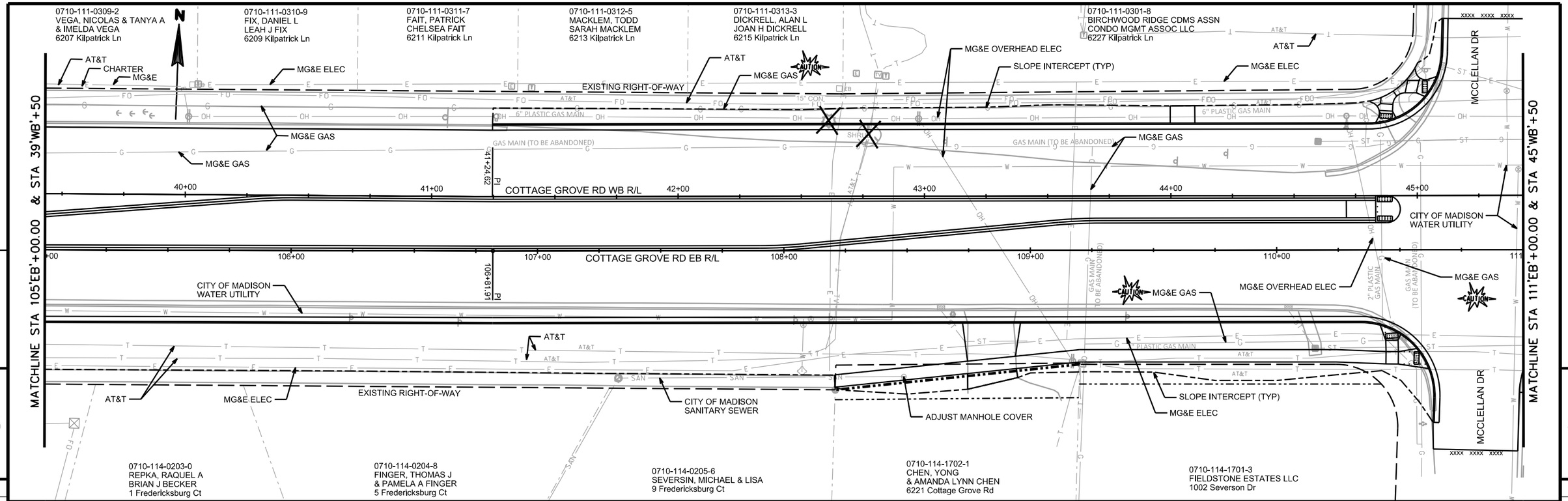
FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\PnPs\53W0472EN-PnPEB*3.dgn | PLOT DATE : 9/17/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 39.9999 sf / in.

WISDOT/CADDS SHEET 46



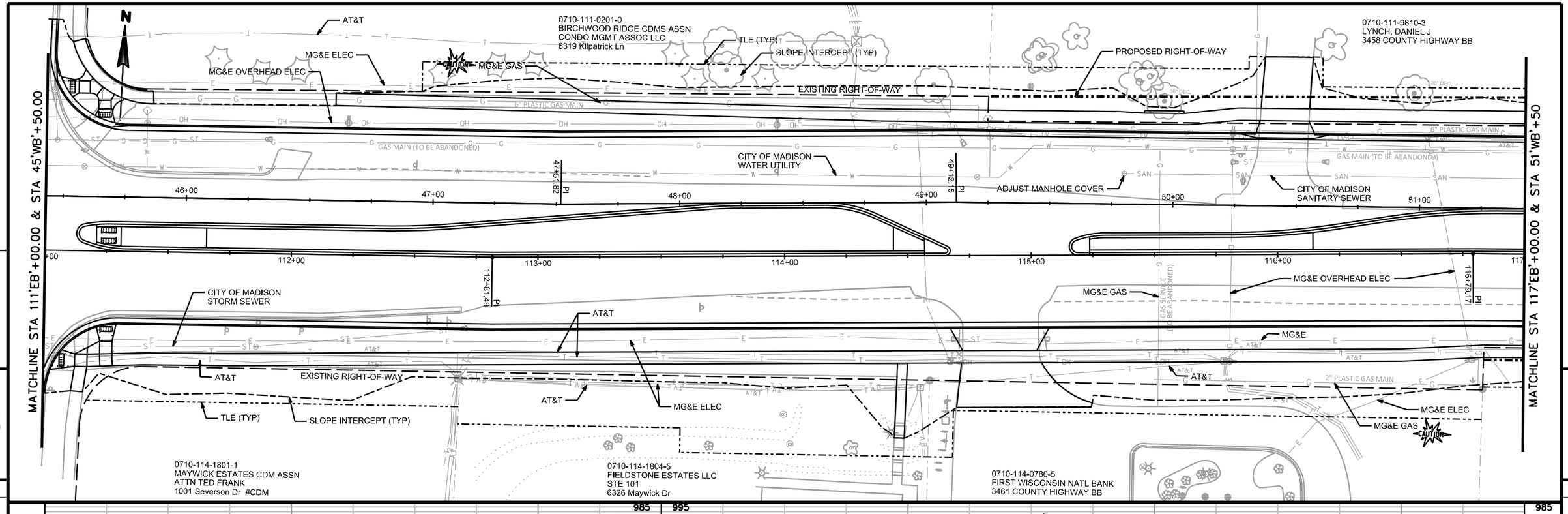
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PLAN & PROFILE	SHEET	E

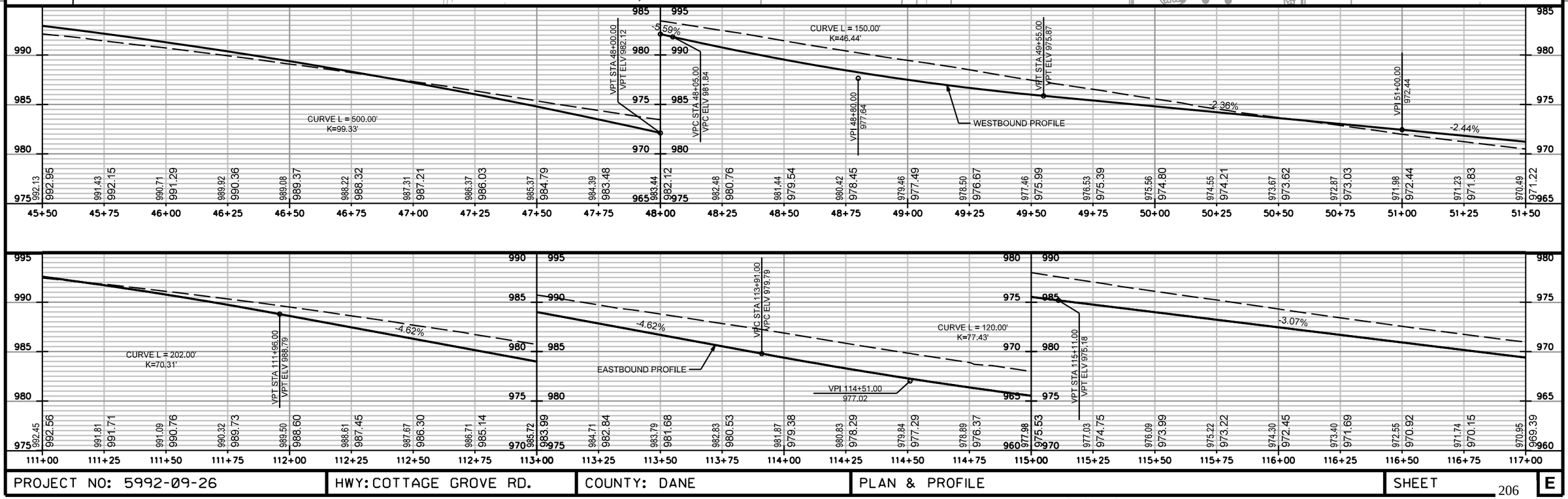
FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\PnPs\53W0472EN-PnPEB*4.dgn PLOT DATE : 10/17/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 39.9999 sf / in.



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD.	COUNTY: DANE	PLAN & PROFILE	SHEET E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\PnPs\53W0472EN-PnPEB*5.dgn PLOT DATE : 9/17/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 39.9999 sf / in.





PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD.	COUNTY: DANE	PLAN & PROFILE	SHEET E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\PnPs\53W0472EN-PnPEB*6.dgn PLOT DATE : 9/17/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 39.9999 sf / in.

MATCHLINE STA 117'EB'+00.00 & STA 51'WB'+50.00

MATCHLINE STA 123'EB'+00.00 & STA 57'WB'+50.00

5

5

N

0710-111-0205-2
STAGE TWO DEVELOPMENT LLC
6420 Cottage Grove Rd

EXISTING RIGHT-OF-WAY

SLOPE INTERCEPT (TYP)

MG&E OVERHEAD ELEC

MG&E GAS

AT&T

CHARTER

MG&E

S SPRECHER RD

CITY OF MADISON TRAFFIC ENG

CITY OF MADISON STORM SEWER

CITY OF MADISON WATER UTILITY

ATC

6" PLASTIC GAS MAIN

GAS MAIN (TO BE ABANDONED)

ADJUST SAS SPECIAL

CITY OF MADISON SANITARY SEWER

ADJUST MANHOLE COVER

52+34.72 PI

55+42.84 PI

56+19.44 PI

56+88.57 PI

118+82.31 PI

120+83.25 PI

121+97.63 PI

CITY OF MADISON TRAFFIC ENG

MG&E ELEC

ATC ELEC

SLOPE INTERCEPT (TYP)

TLE (TYP)

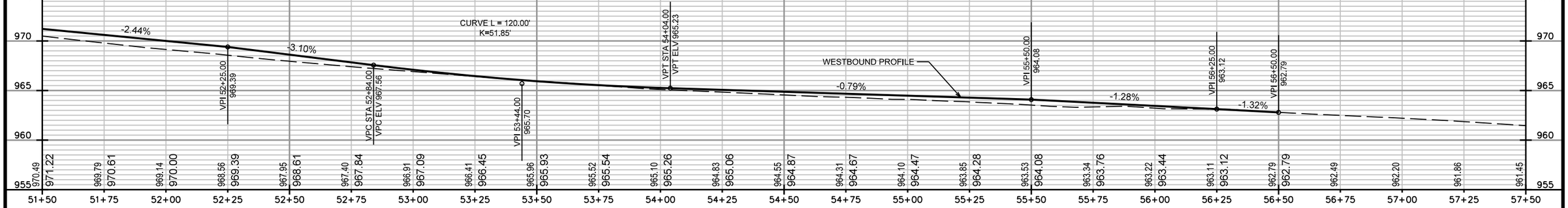
0710-114-1811-0
HOSKING, BRIAN C
6409 COTTAGE GROVE ROAD

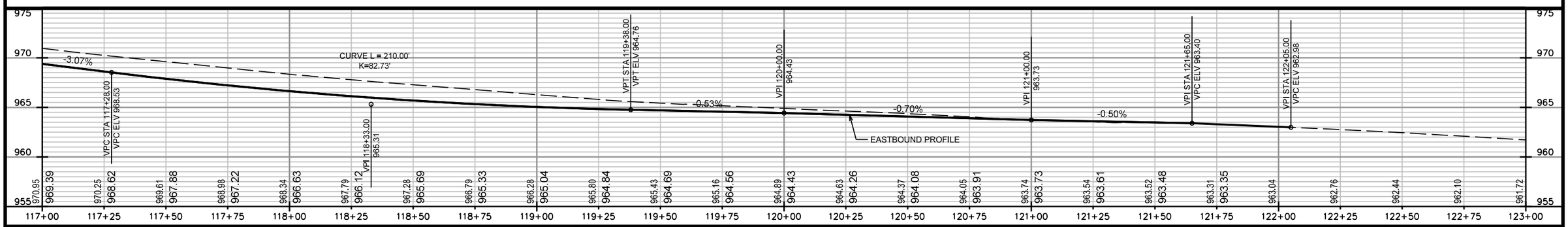
0710-114-1812-8
GEHRKE, RENO K
LYNNE M GEHRKE
6413 COTTAGE GROVE ROAD

0710-114-1813-6
NEUHENGEN, RICHARD
6417 COTTAGE GROVE ROAD

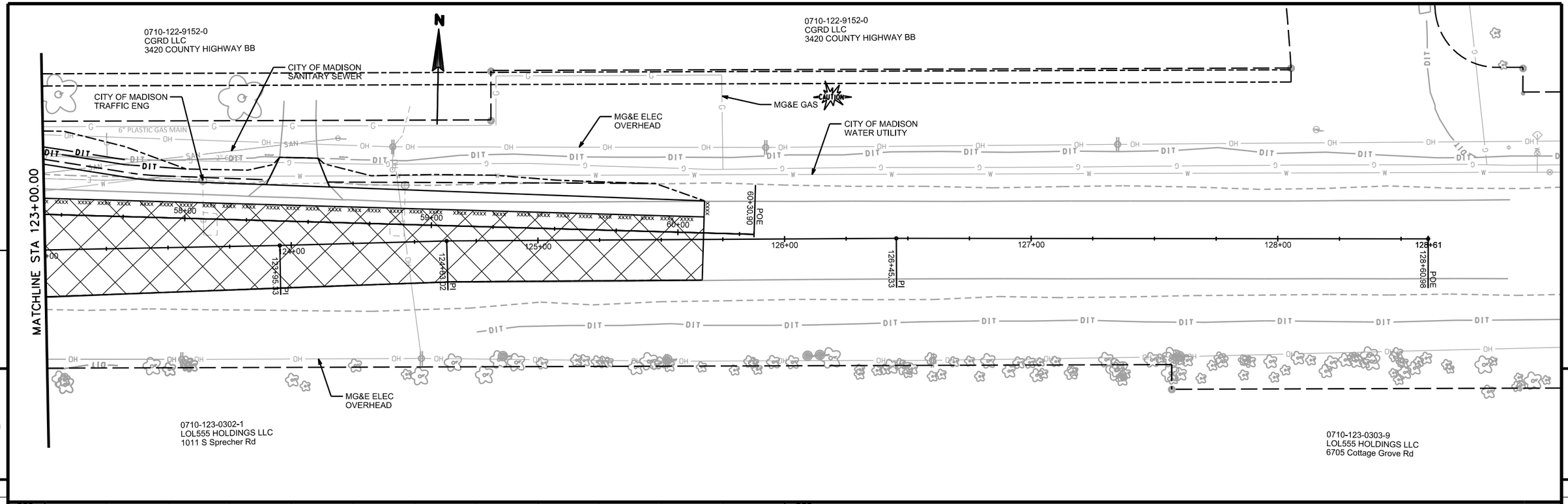
0710-114-1808-7
PITTZ, BRADY MICHAEL
JACQUELINE NICOLE PITTZ
1002 S Sprecher Rd

0710-114-1304-7
MADISON ENGINEER
TRANSPORTATION 535
Cottage Grove Rd





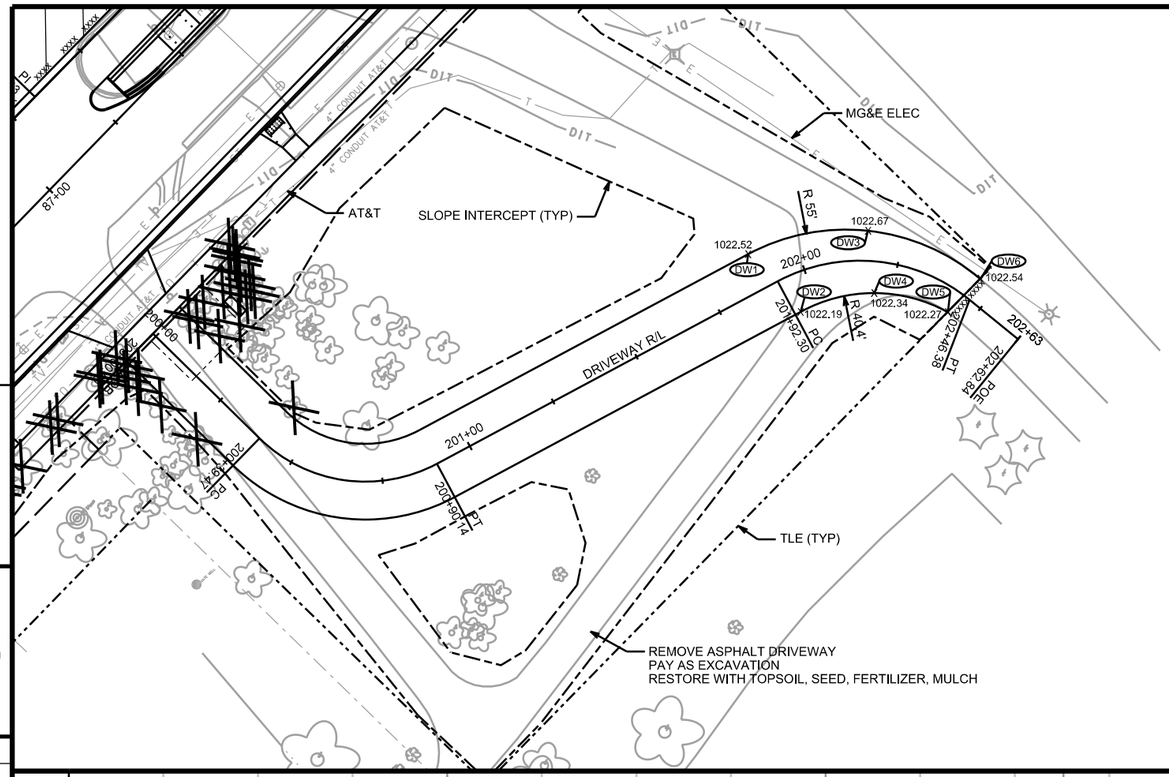
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD.	COUNTY: DANE	PLAN & PROFILE	SHEET	E



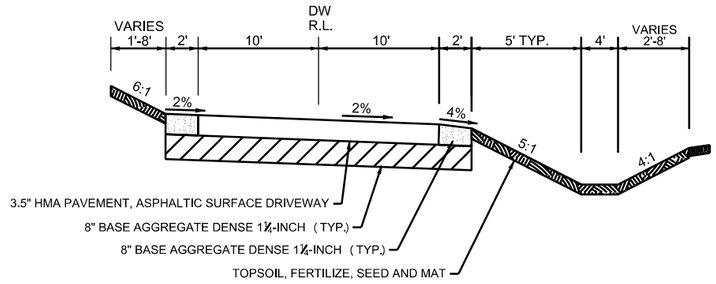
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD.	COUNTY: DANE	PLAN & PROFILE	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\PnPs\53W0472EN-PnPEB*8.dgn PLOT DATE : 9/17/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 39.9999 sf / in.

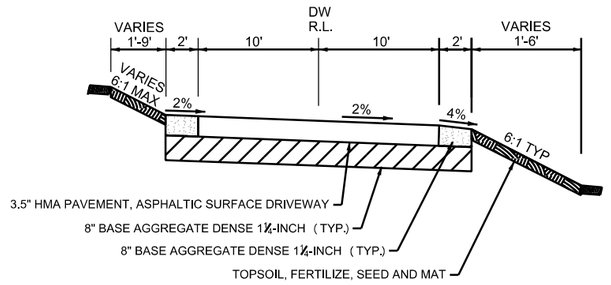
WISDOT/CADDS SHEET 46



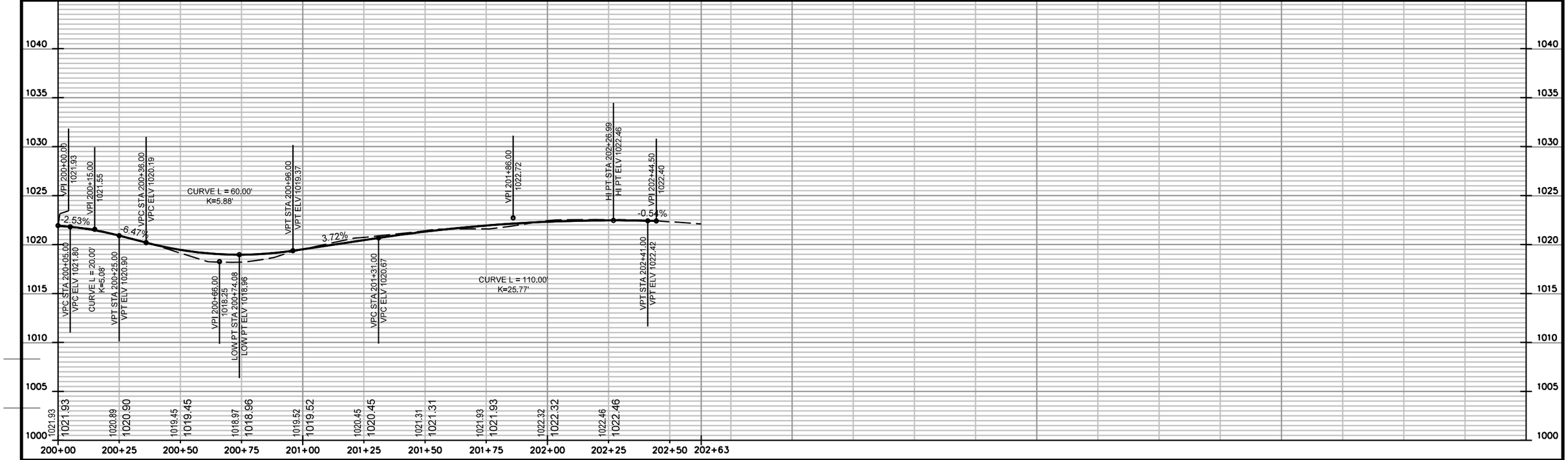
DRIVEWAY PAVEMENT POINTS		
POINT	STATION	OFFSET
DW1 (PC)	201+88.72	LT 10.00'
DW2 (PC)	201+94.16	RT 9.97'
DW3 (MC)	202+16.71	LT 7.93'
DW4 (MC)	202+19.50	RT 8.39'
DW5 (MATCH)	202+43.47	RT 6.11'
DW6 (MATCH)	202+45.14	LT 6.09'



PROPOSED TYPICAL SECTION - DRIVEWAY
STA 200+00 TO STA 200+50



PROPOSED TYPICAL SECTION - DRIVEWAY
STA 200+50 TO STA 202+44



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE RD	COUNTY: DANE	PLAN & PROFILE	SHEET E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\90% Plans\DGNs\PnPs\53W0472EN-PnPEB_DW1.dgn PLOT DATE : 9/17/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 39.9999 sf / in.

WISDOT/CADDS SHEET 46

Standard Detail Drawing List

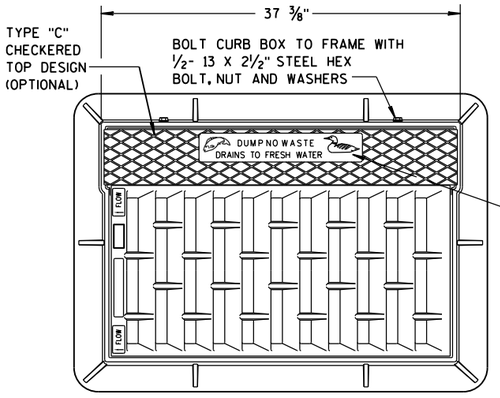
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B10-02	MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D15-05A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08D15-05B	EDGEDRAIN AND BASE AGGREGATE OPEN GRADED
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09C03-04	TRANSFORMER/PEDESTAL BASES
09C11-10	CONCRETE BASE TYPE 10
09F08-04	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW ASPHALTIC PAVEMENT)
09G01-04A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
11B02-02	CONCRETE MEDIAN NOSE
13C19-01	HMA LONGITUDINAL JOINTS
14A01-03	TREE PRESERVATION DETAILS
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C07-14E	PAVEMENT MARKING FOR BIKE LANES
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-04	MEDIAN ISLAND MARKING
15C19-05B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-05C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C21-08	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C27-03A	DOUBLE ARROW WARNING SIGN PLACEMENT
15C27-03B	PAVEMENT MARKING (ISLANDS)
15C29-06A	BICYCLE LANE MARKING
15C31-03A	PAVEMENT MARKING (RAMPS AND GORES)
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15D06-03	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D12-07A	TRAFFIC CONTROL, LANE CLOSURE
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-06	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D29-05	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D30-05A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-05B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-05C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D40-01	TRAFFIC CONTROL, LANE SHIFT, MULTILANE DIVIDED OR ONE WAY ROAD

6

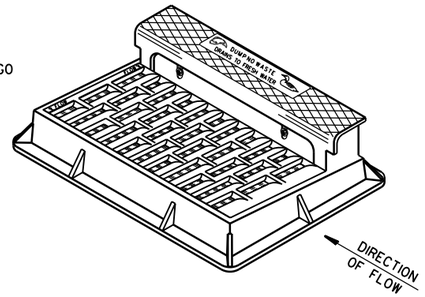
Standard Detail Drawing List

16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

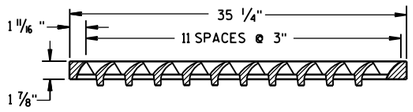
6

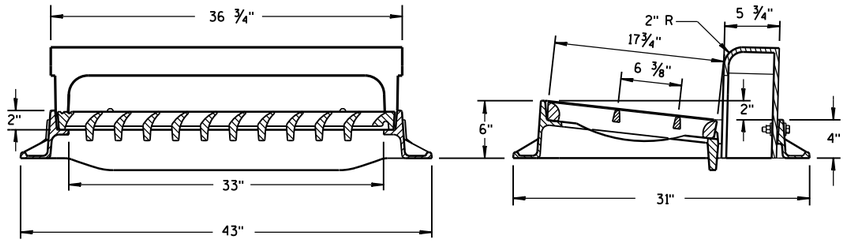


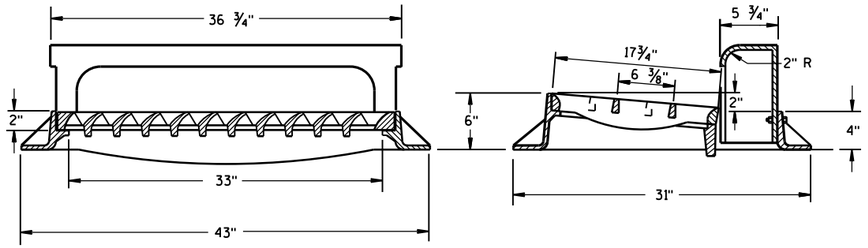
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

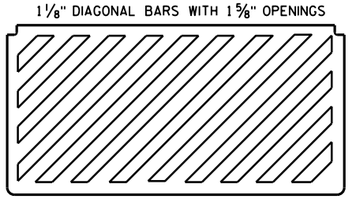






TYPE "H"

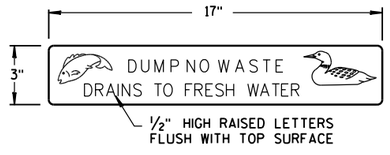
NOTE: EITHER CASTING IS ACCEPTABLE



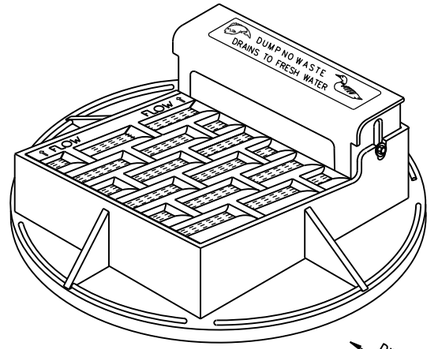
SPECIAL GRATE FOR TYPE "H" COVER

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

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

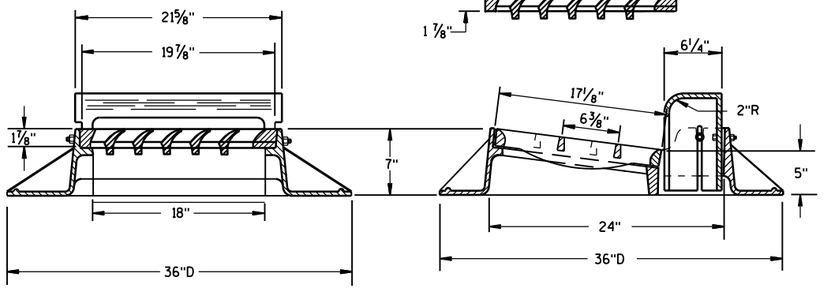


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



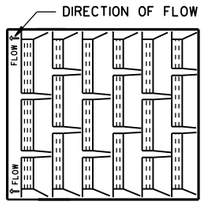
TYPE "A"

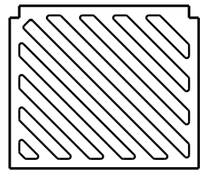
GENERAL NOTES

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.

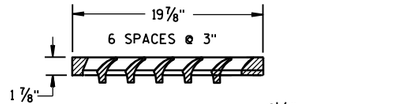


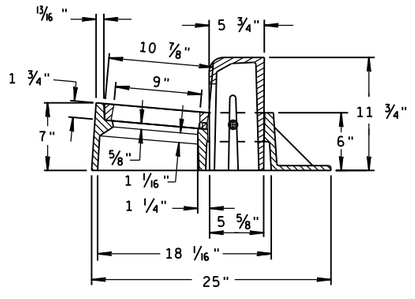


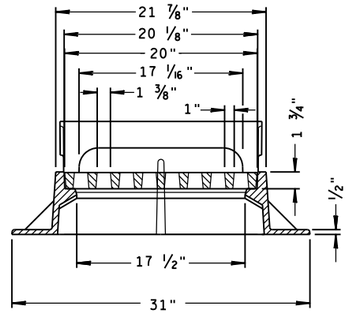
SPECIAL GRATE FOR TYPE "A" COVER

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

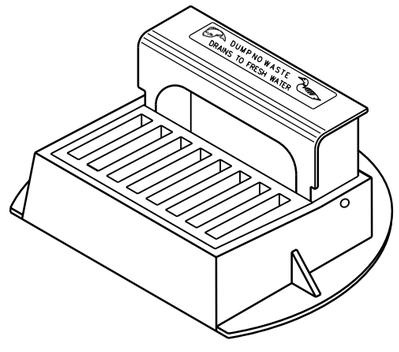
(NOTED AS TYPE A-S ON DRAINAGE TABLE)







TYPE "Z"



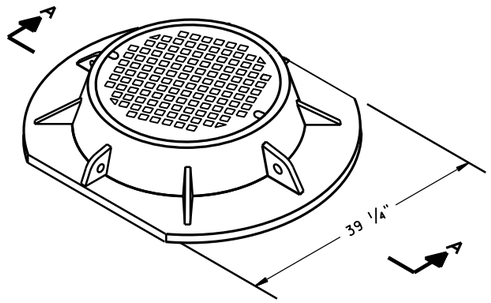
INLET COVERS
TYPE A, H, A-S, H-S & Z

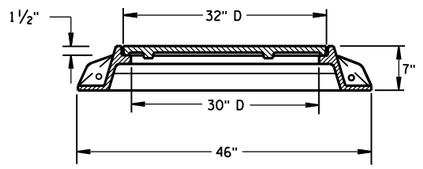
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

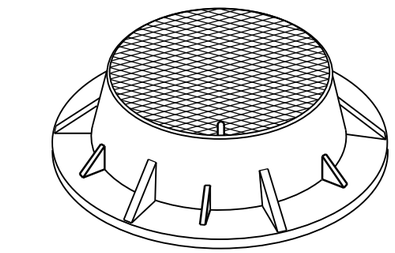
6

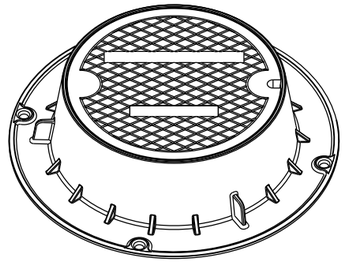
S.D.D. 8 A 5-19a

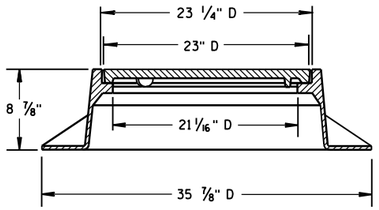


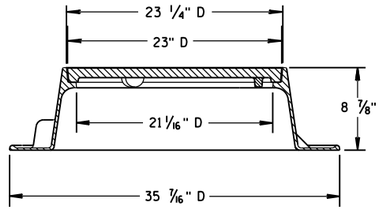


SECTION A-A
TYPE "K"









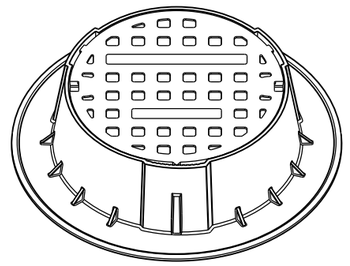
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

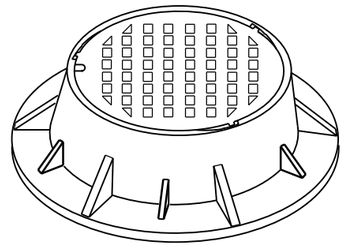
GENERAL NOTES

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

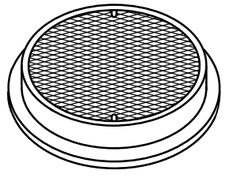
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

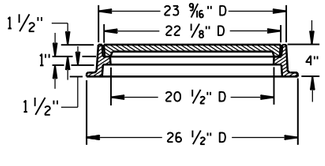
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.





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





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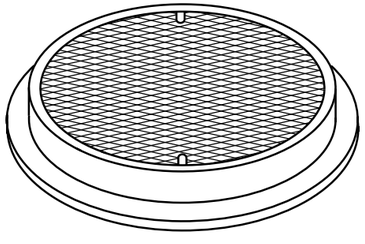
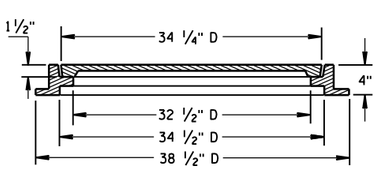
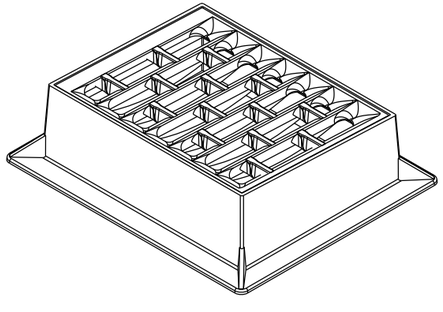
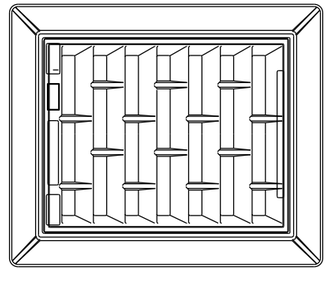
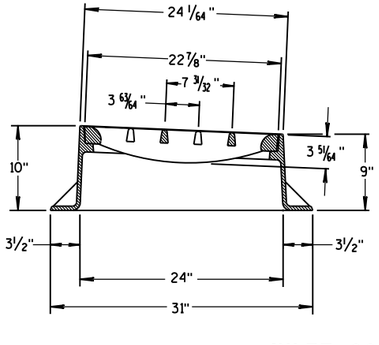


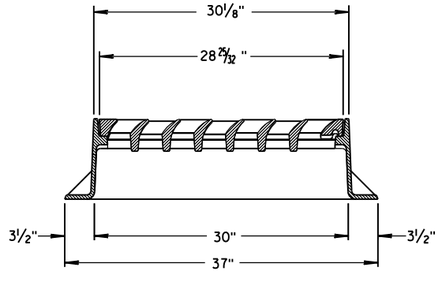


TYPE "M"









INLET COVER TYPE "BW"

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

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

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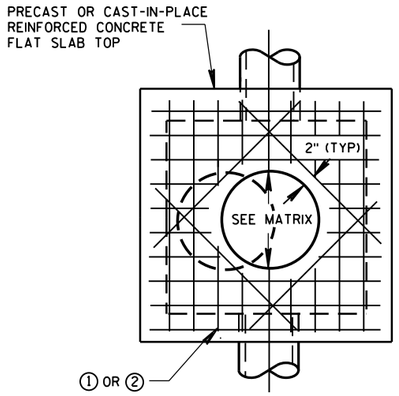
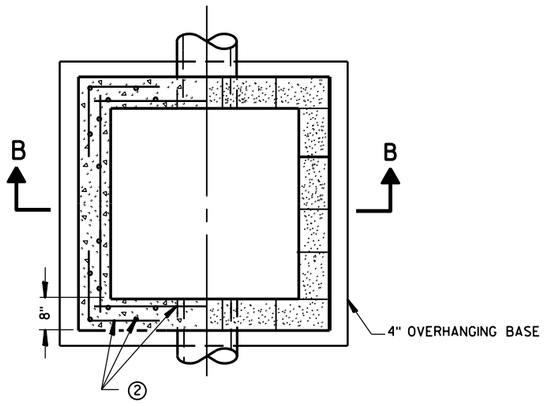
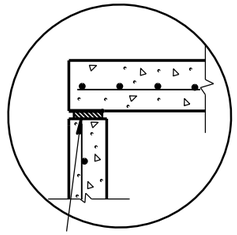
S.D.D. 8 A 5-19d



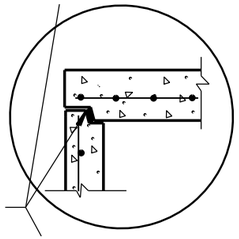
PLAN VIEW
CIRCULAR OPENING



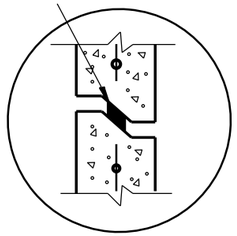
SECTION A-A
PLAN VIEW



TOP WITH PLAIN END JOINT

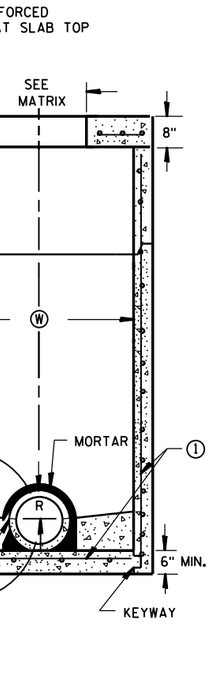


TOP WITH TONGUE AND GROOVE JOINT

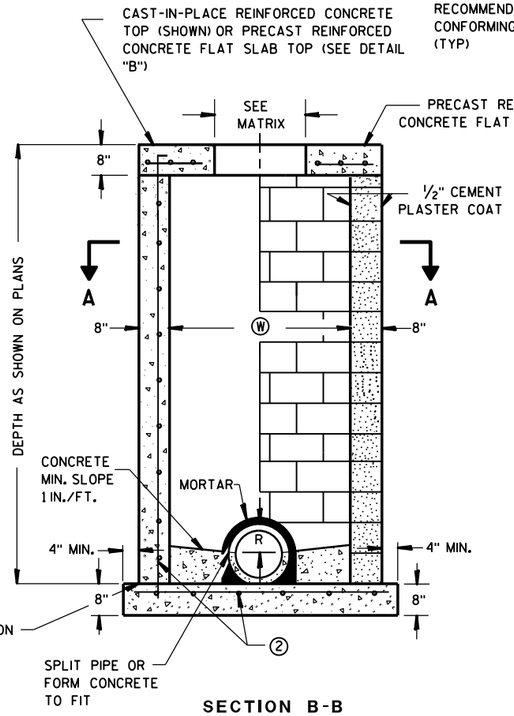


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

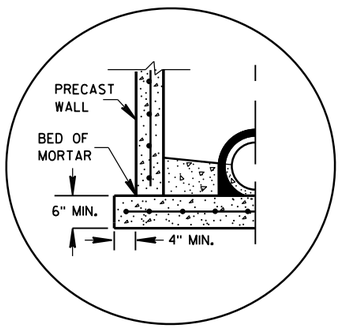


SECTION B-B

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

CAST-IN-PLACE REINFORCED CONCRETE

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



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "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.

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

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

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

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

PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

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 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.

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

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 ASTM C 913.

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.

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

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

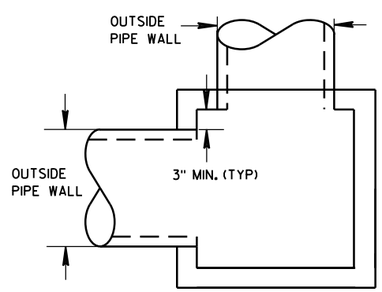
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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	
	WIDTH (W) (IN)	LENGTH (L) (IN)
3X3-FT	24	24
4X4-FT	30	30
5X5-FT	42	42
6X6-FT	54	54



DETAIL "C"

SQUARE MANHOLES W/ FLAT TOP

MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT

MANHOLES 3X3-FT, 4X4-FT 5X5-FT AND 6X6-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

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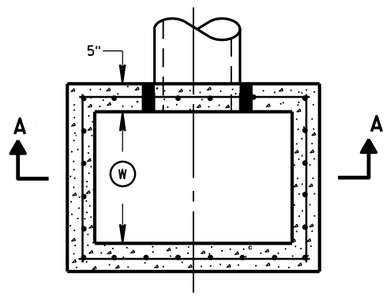
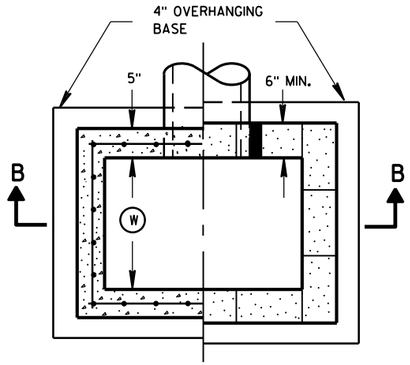
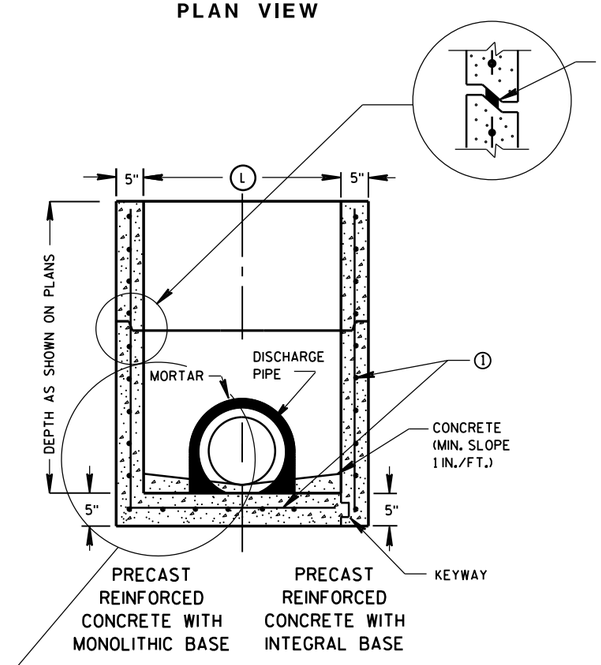
S.D.D. 8 B 10-2



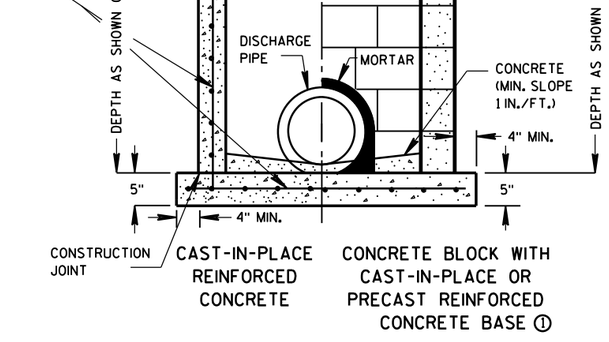
PLAN VIEW



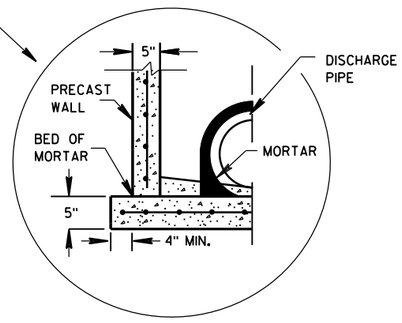
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

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 FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

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

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

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

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

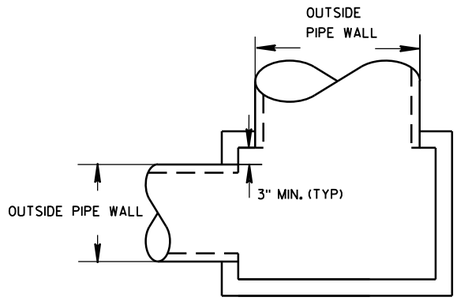
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

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

PIPE MATRIX

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



DETAIL "A"

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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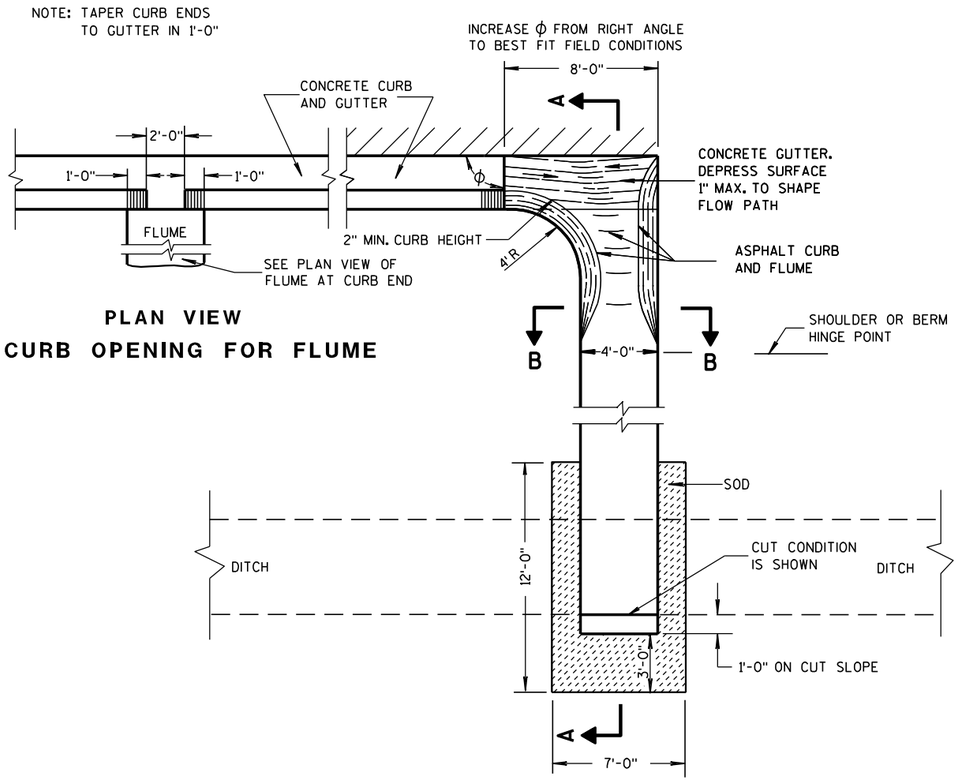
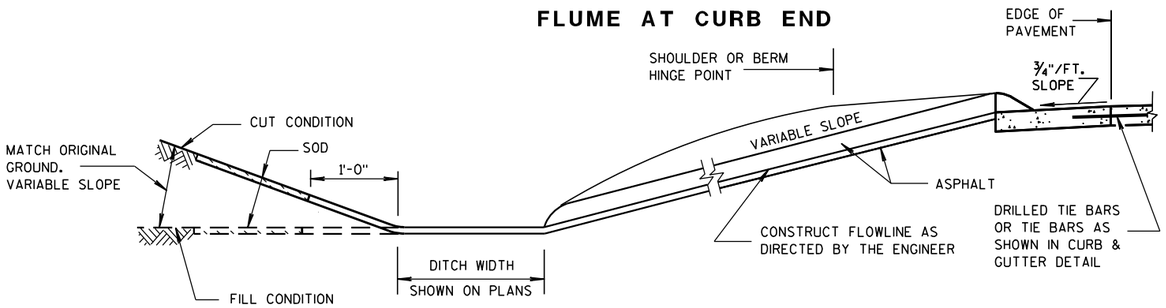
S.D.D. 8 C 7-2

ASPHALTIC FLUME

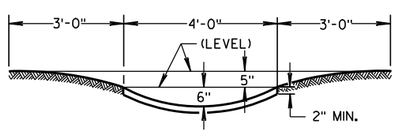


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

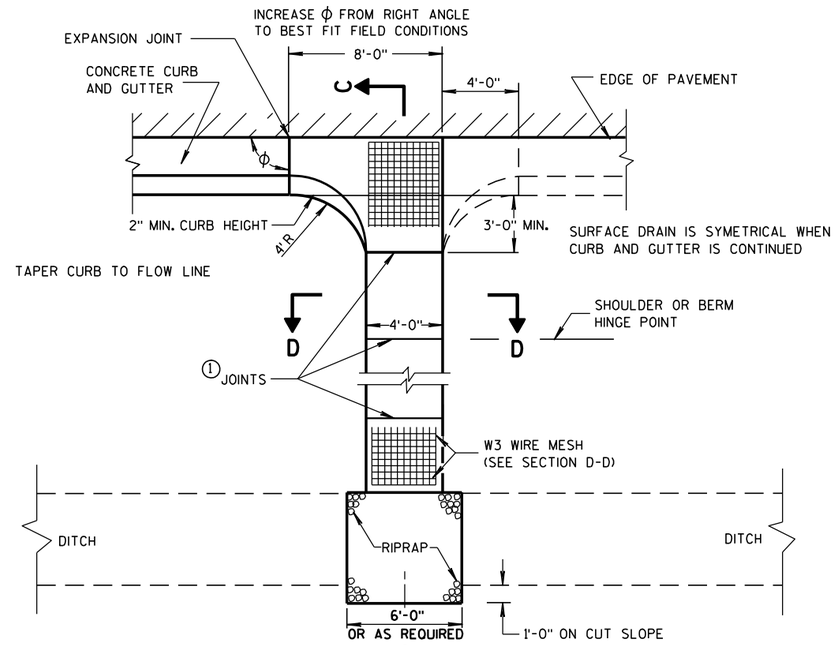
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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

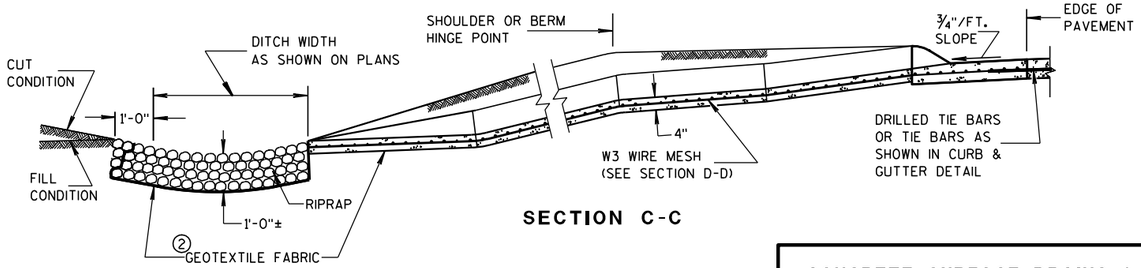
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

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

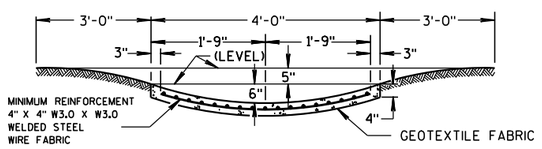
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

S.D.D. 8 D 4-5

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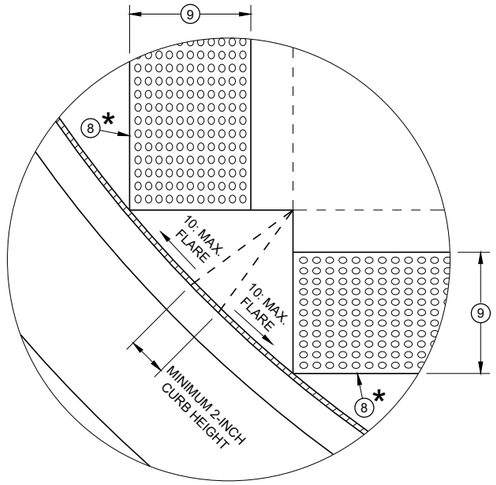
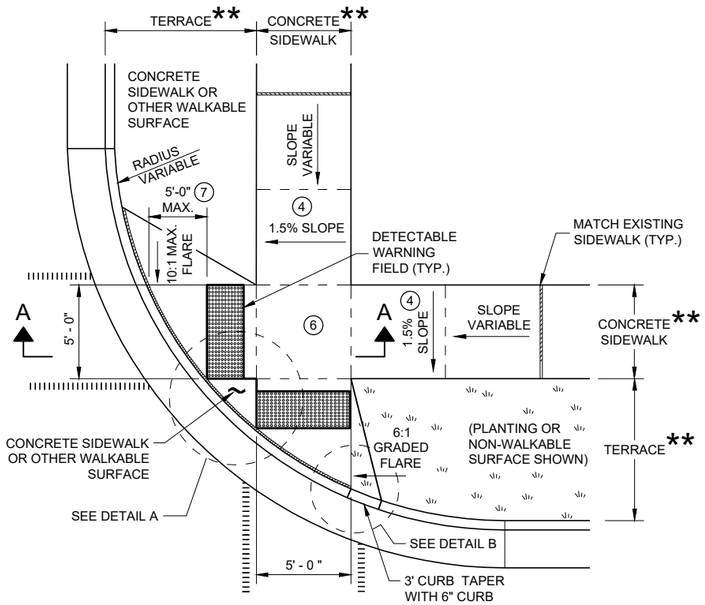
S.D.D. 8 D 4-5



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

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

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

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

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

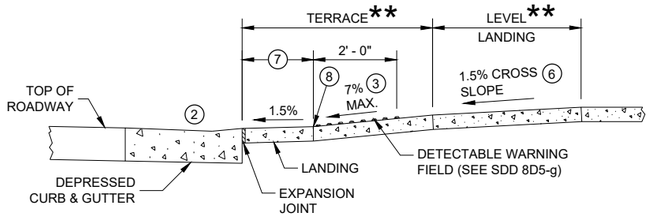
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

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

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

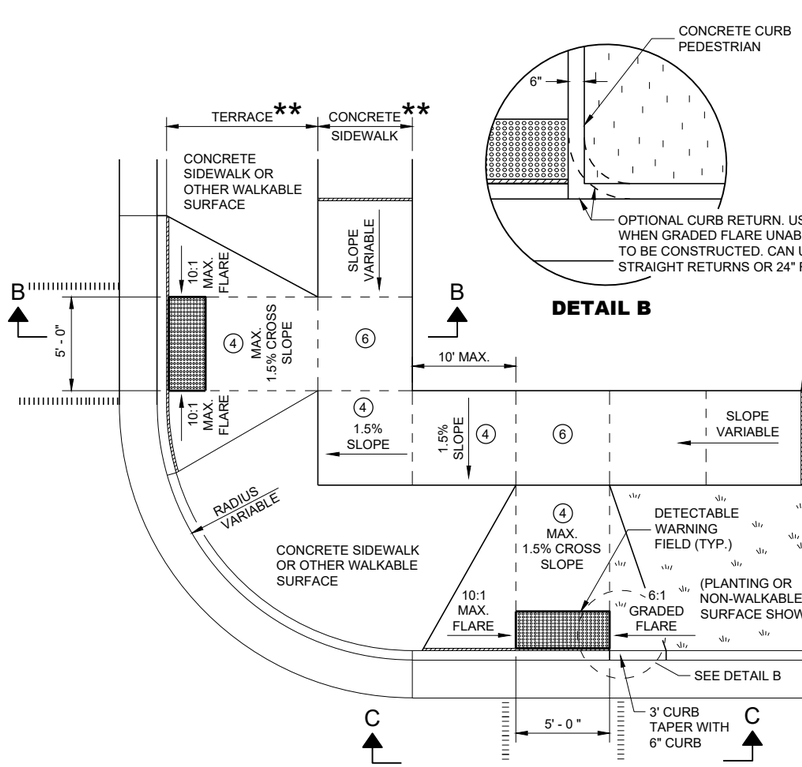
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

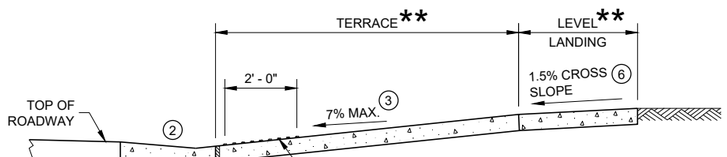
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

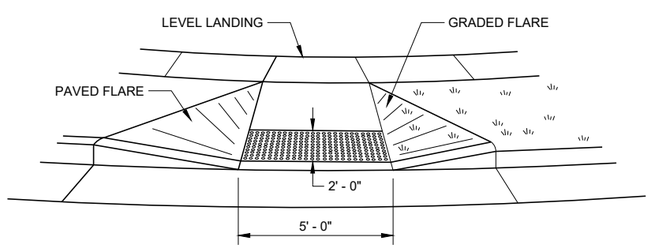


DETAIL B

PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3

LEGEND

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

CURB RAMPS TYPE 2 AND 3

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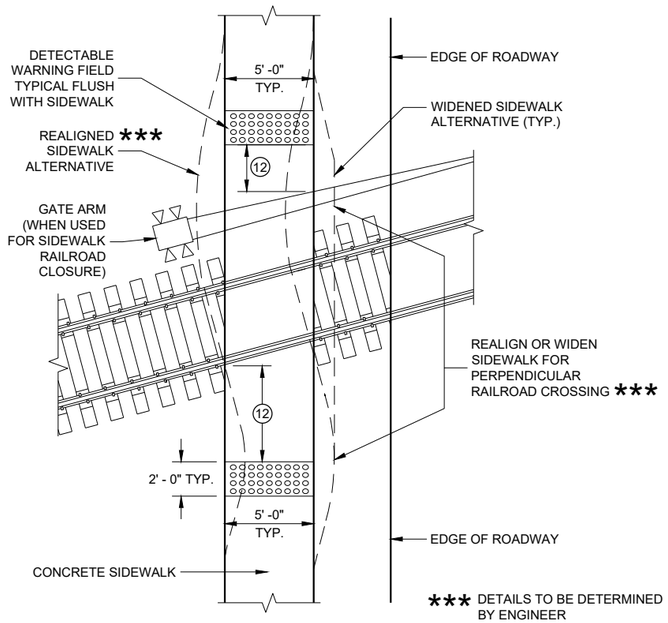
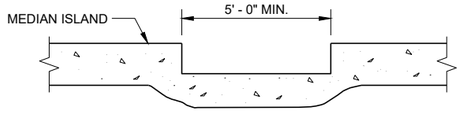
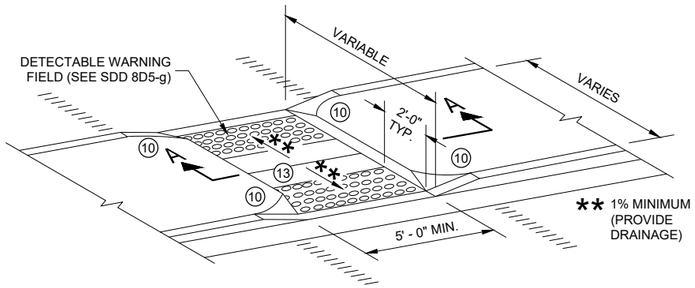


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

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

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

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

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

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

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

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

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

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

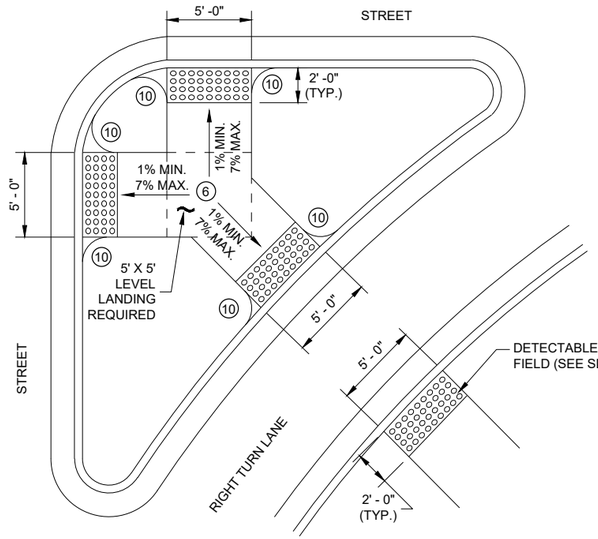
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

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

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

LEGEND

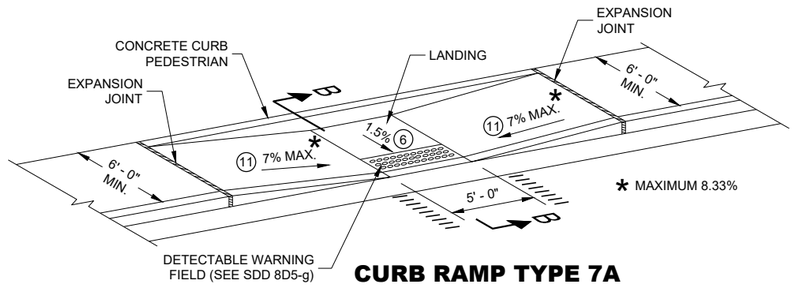
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

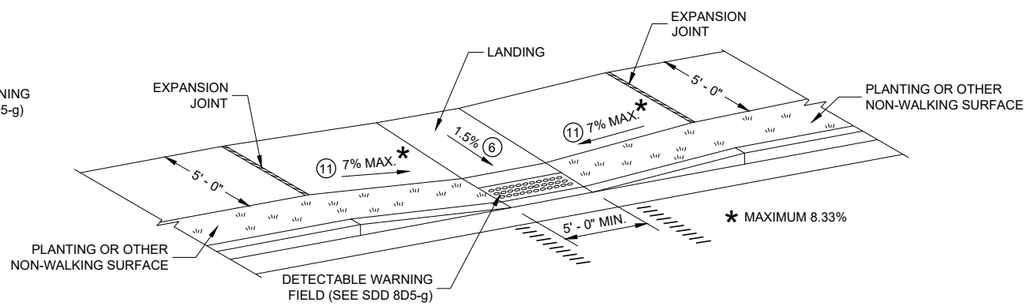
DETECTABLE WARNING AT ISLANDS

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



CURB RAMP TYPE 7A

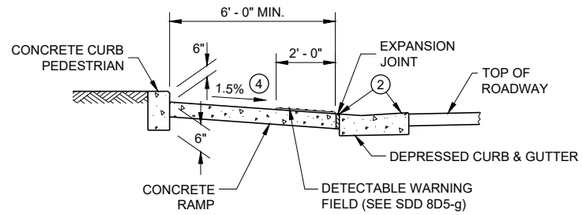
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

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



SECTION B - B FOR TYPE 7A

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

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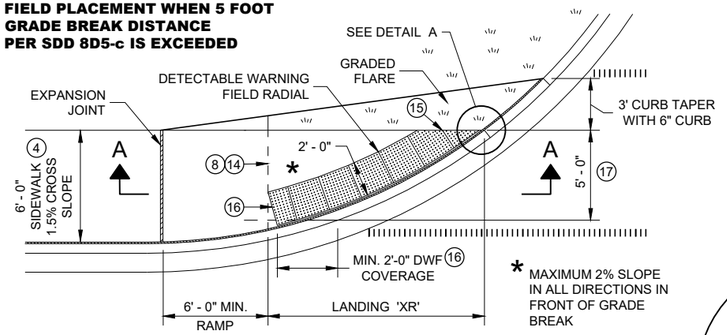
SDD 08D05 - 20e

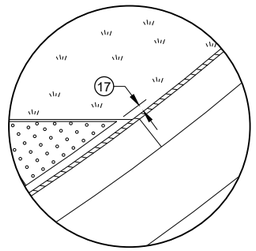
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



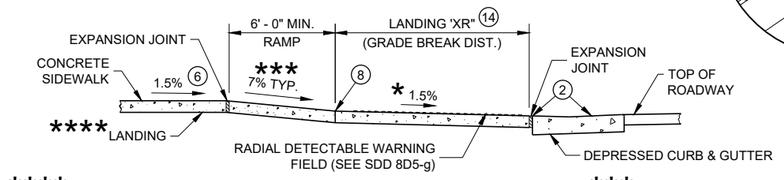
PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL A

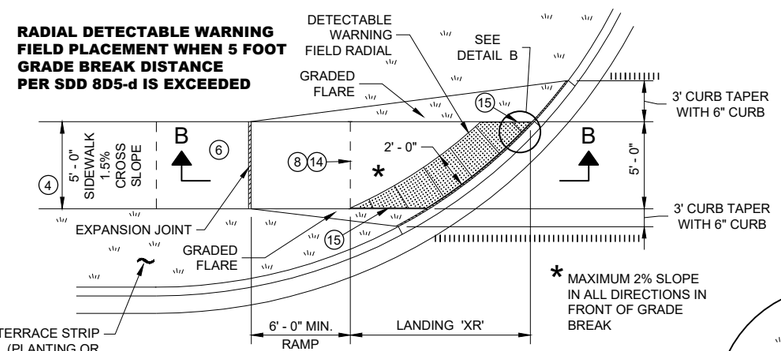


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1

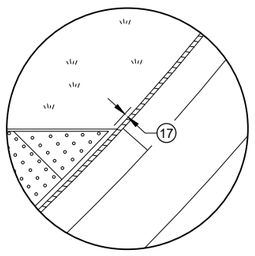
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



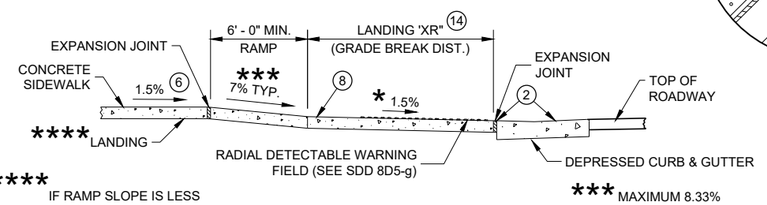
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

LEGEND

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

GENERAL NOTES

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

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

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

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

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

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

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

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

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

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

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

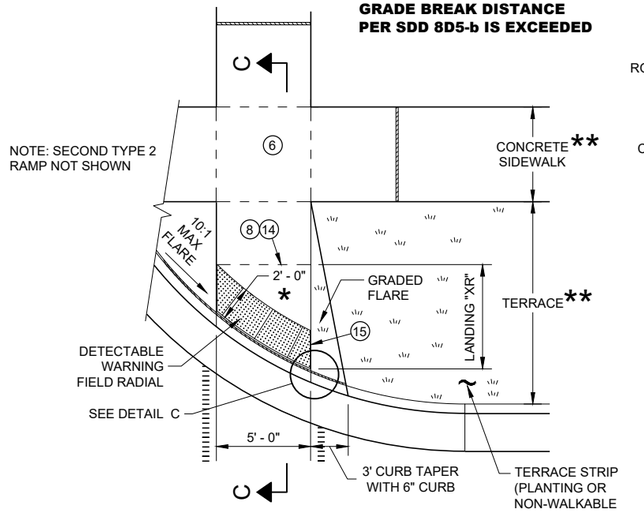
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

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

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

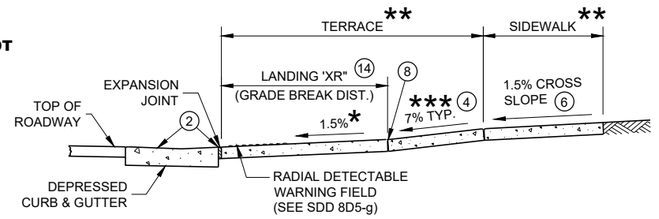


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

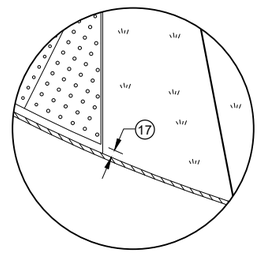


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
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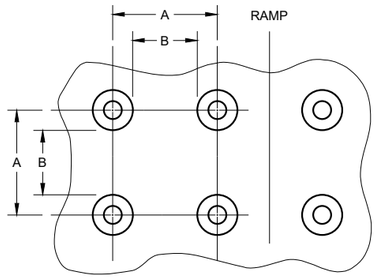
SDD 08D05 - 20f

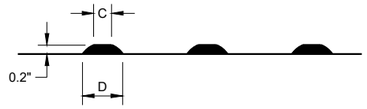
SDD 08D05 - 20f

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

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

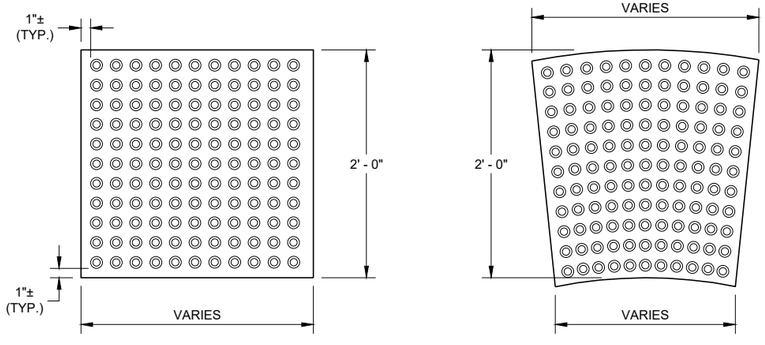


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

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

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

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

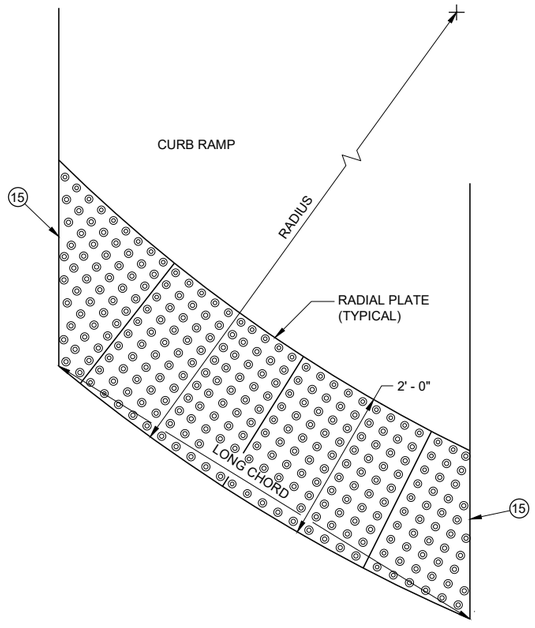
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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

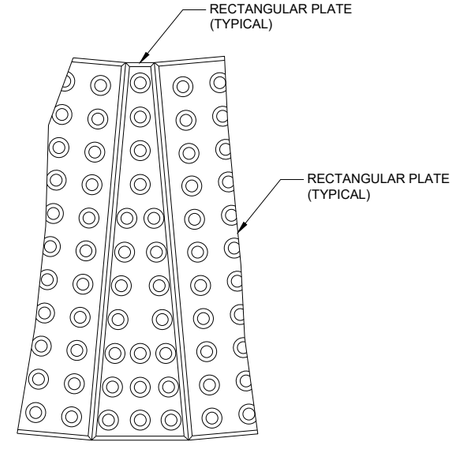
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

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

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



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

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SDD 08D05 - 20g

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) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

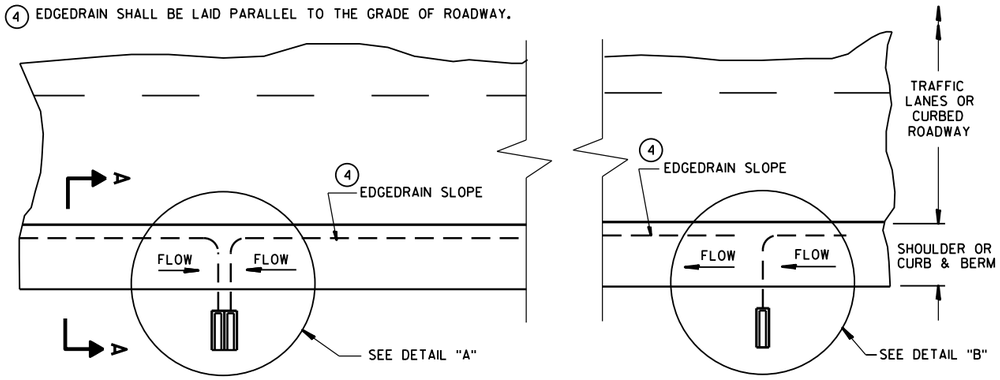
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

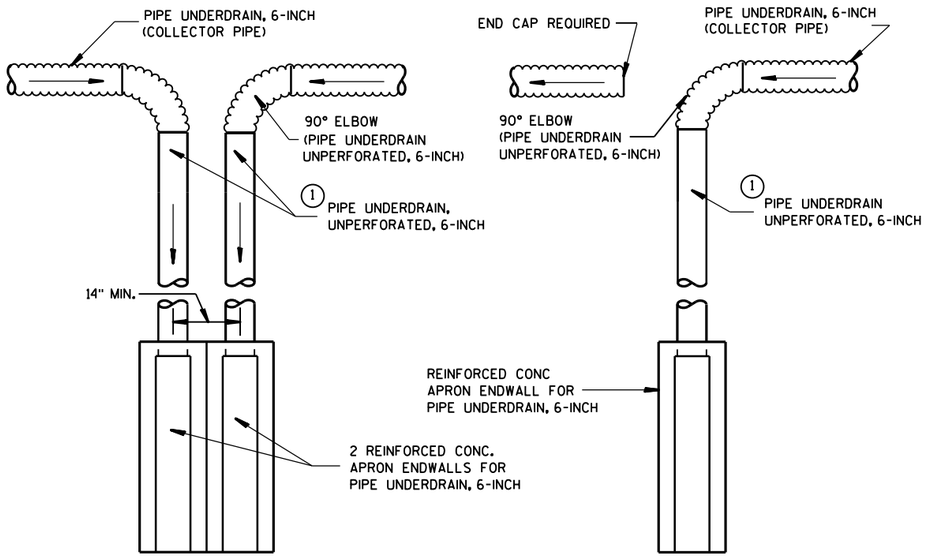
(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS

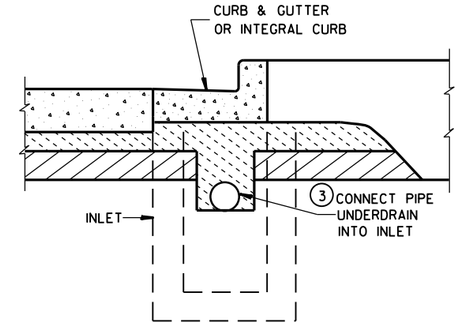
(EDGEDRAIN OUTLETS TO ROADSIDE)(2)



DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS

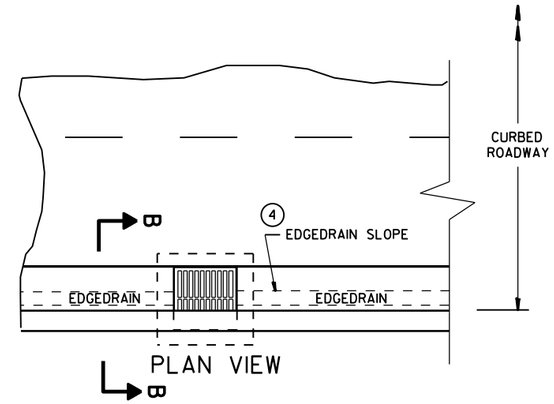
DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



SECTION B-B

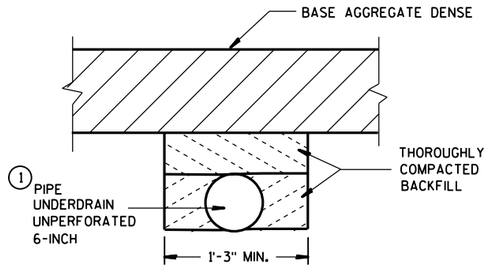
URBAN CROSS SECTION



PLAN VIEW

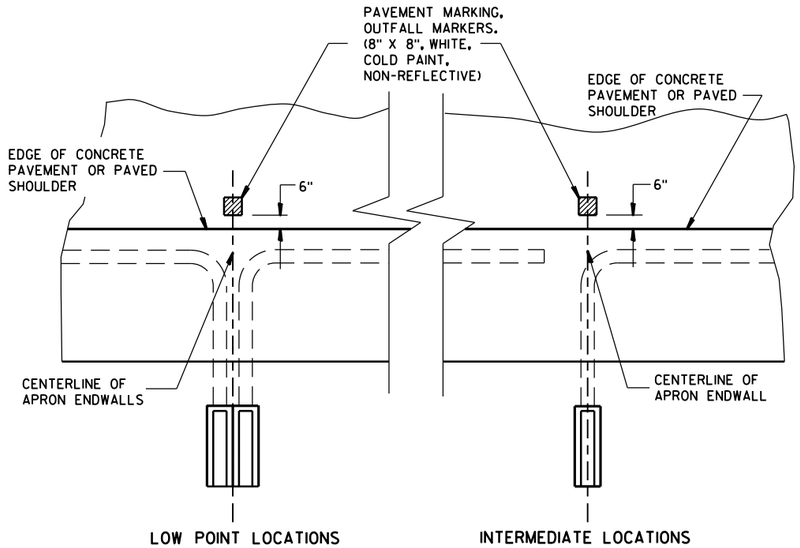
ROADWAY WITH CURBS

(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)



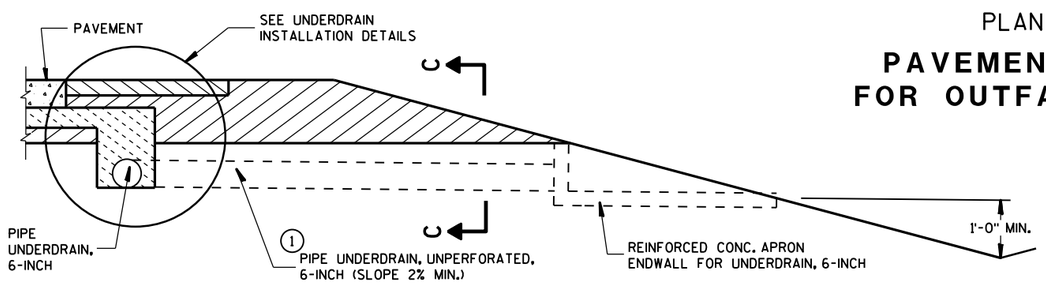
SECTION C-C

(TRENCH FOR OUTFALL PIPE)



PLAN VIEW

PAVEMENT MARKING FOR OUTFALL MARKERS



SECTION A-A

RURAL CROSS SECTION

EDGEDRAIN OUTLET AND OUTFALL MARKERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

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

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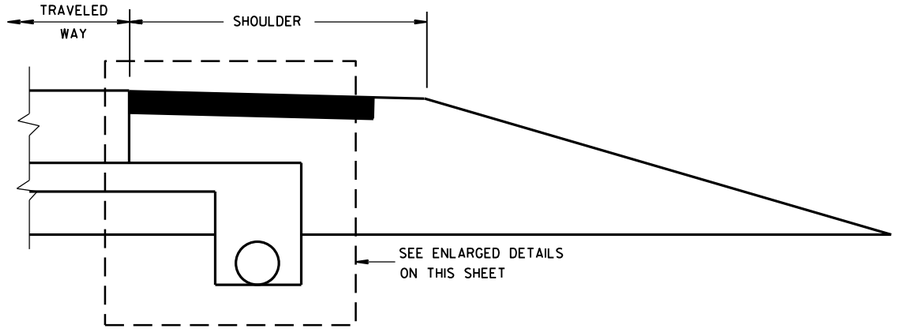
S.D.D. 8 D 15-5a



RURAL CROSS SECTION

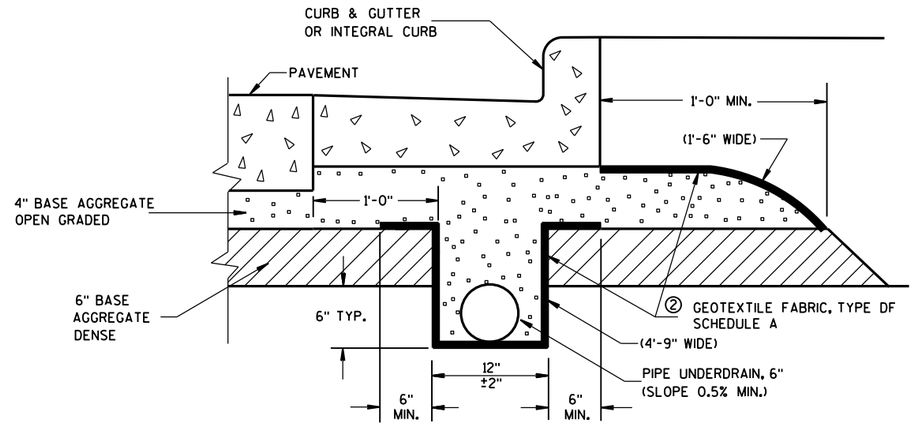
GENERAL NOTES

THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

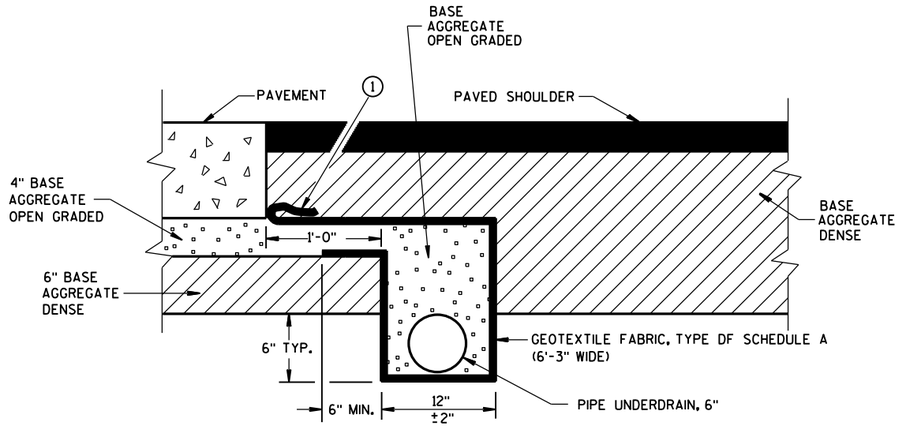
PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

① FOLD OVER EXCESS GEOTEXTILE FABRIC AT THIS LOCATION.

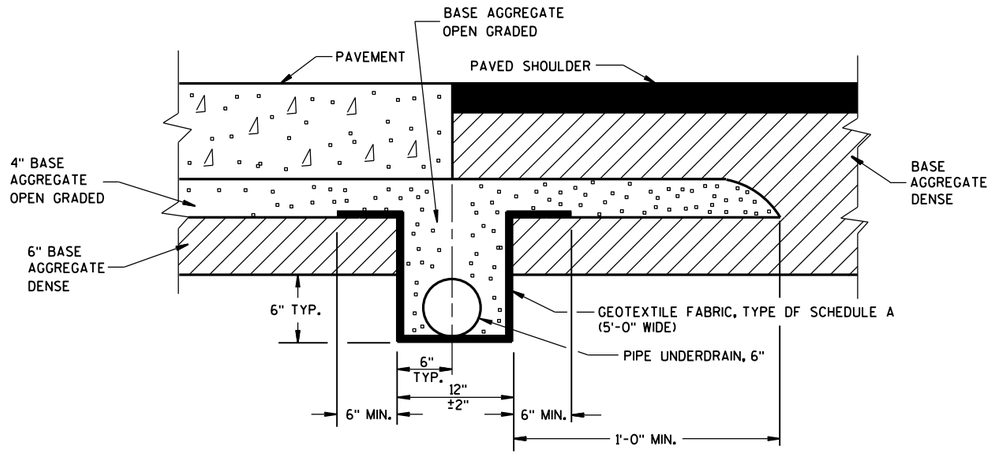
② TOTAL FABRIC WIDTH IS 6'-3" FOR PAYMENT.



EDGEDRAIN IN URBAN ROADWAY



POST PAVING INSTALLATION
(QUANTITIES ARE BASED ON THIS DETAIL)



PRE-PAVING INSTALLATION ALTERNATE

EDGEDRAIN IN RURAL ROADWAY

EDGEDRAIN AND BASE AGGREGATE OPEN GRADED

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

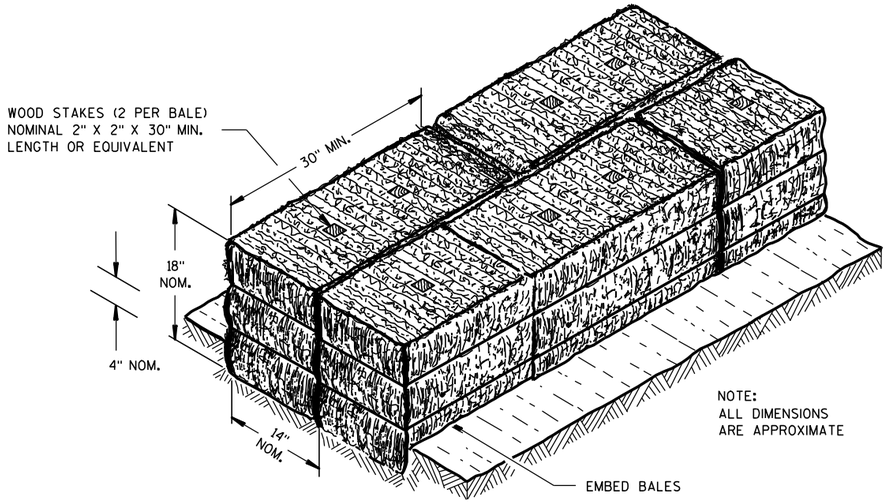
APPROVED
Sept. 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPE
222
FHWA

6

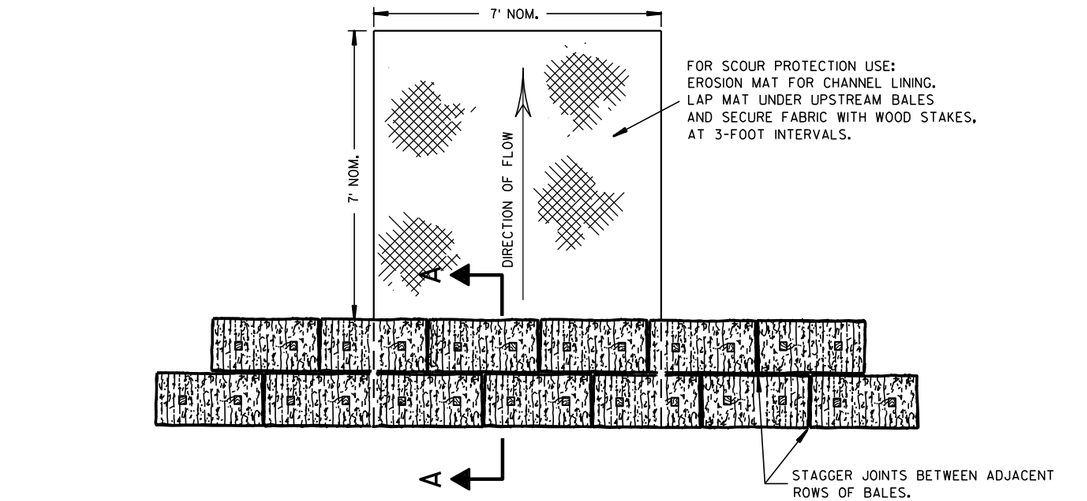
S.D.D. 8 D 15-5b

6

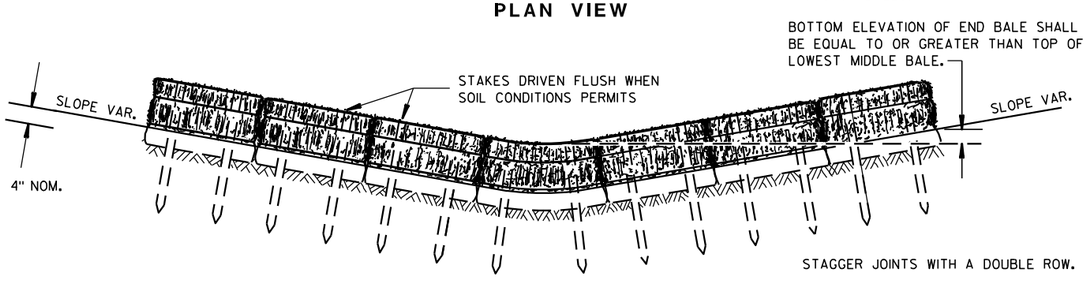
S.D.D. 8 D 15-5b



SECTION A-A



PLAN VIEW



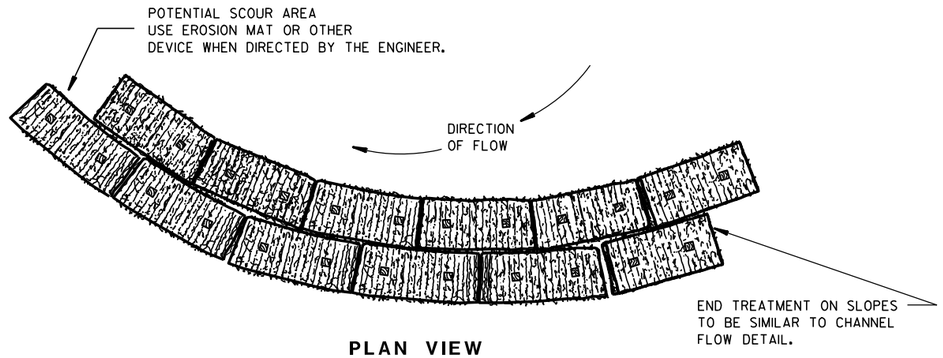
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

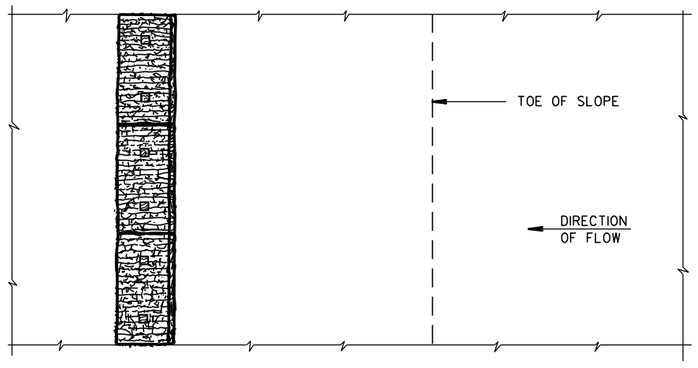
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

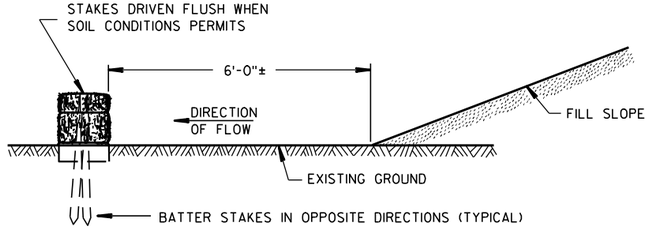


PLAN VIEW

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

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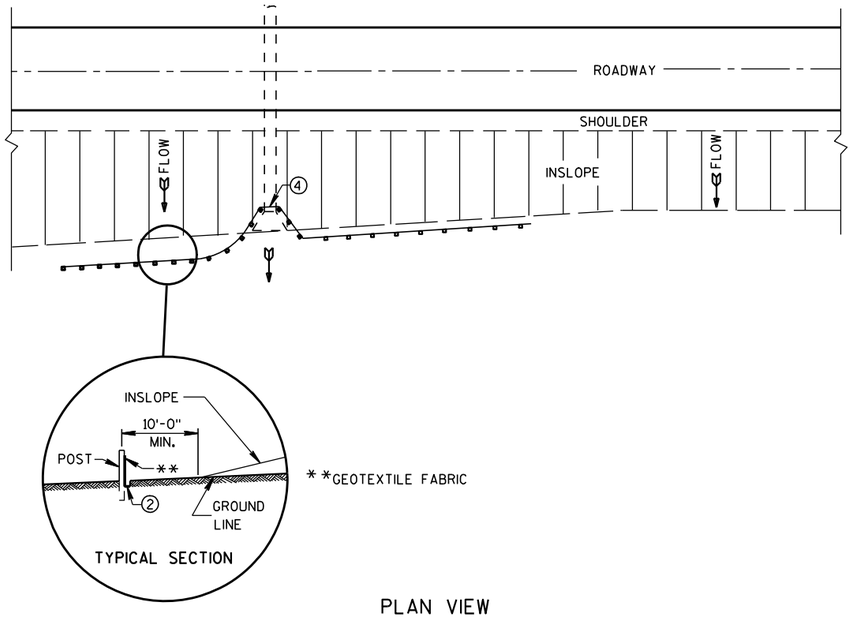
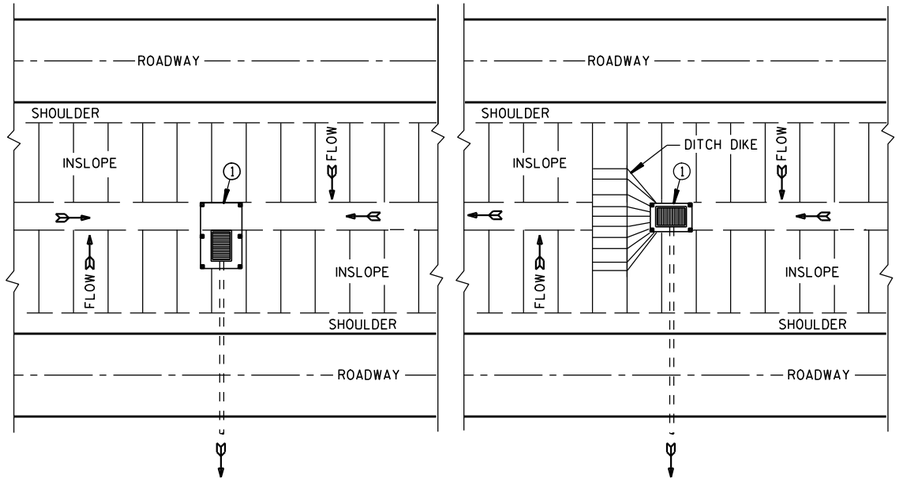
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



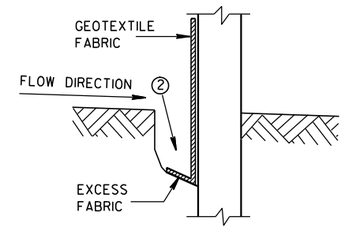
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

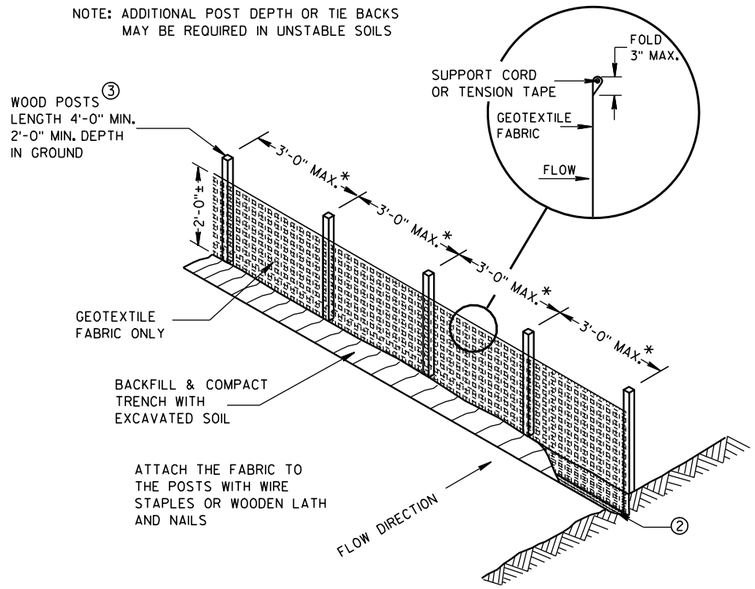
GENERAL NOTES

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

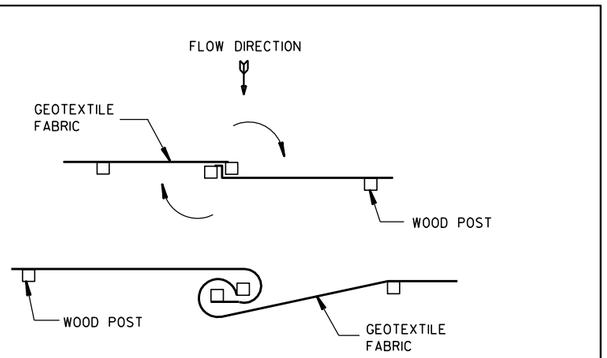
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL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



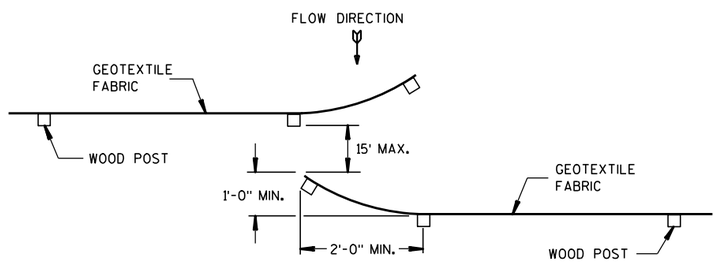
TRENCH DETAIL



SILT FENCE

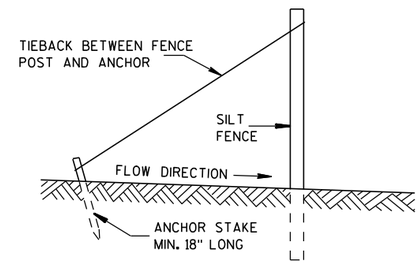


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

S.D.D. 8 E 9-6

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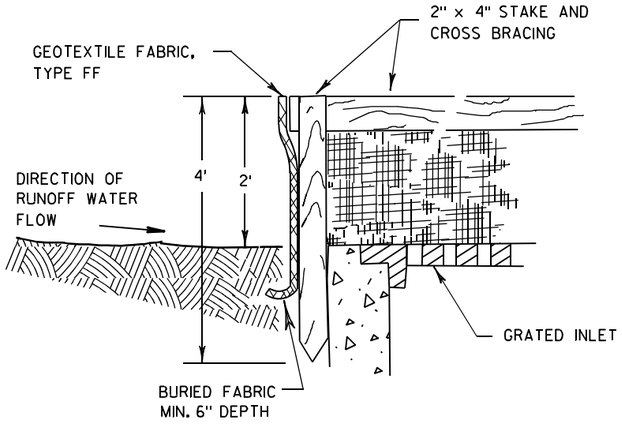
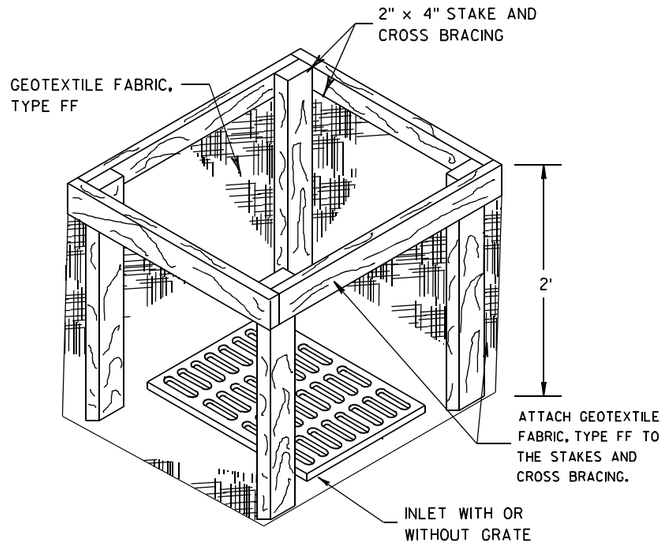
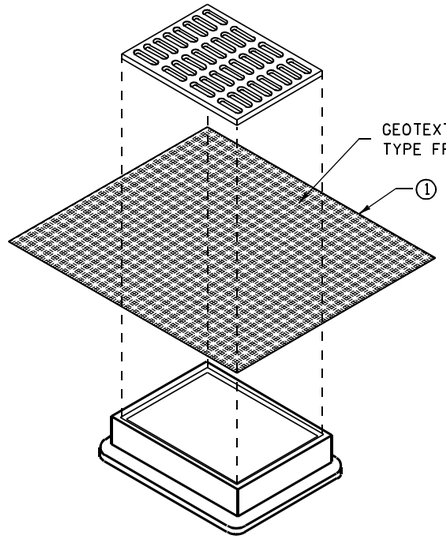
S.D.D. 8 E 9-6



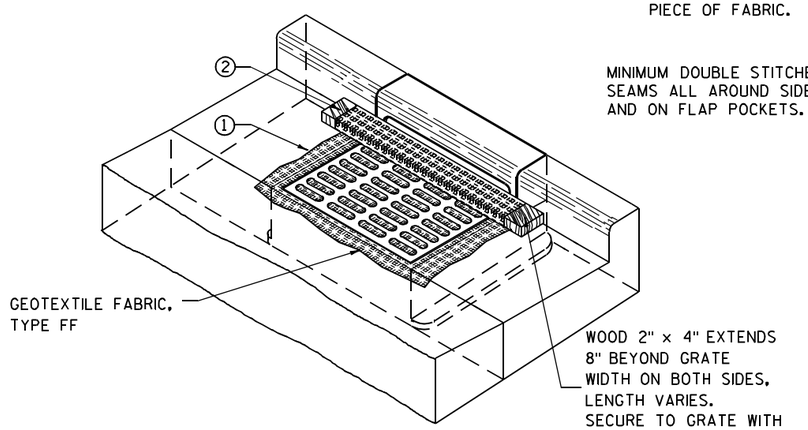


INLET PROTECTION, TYPE A

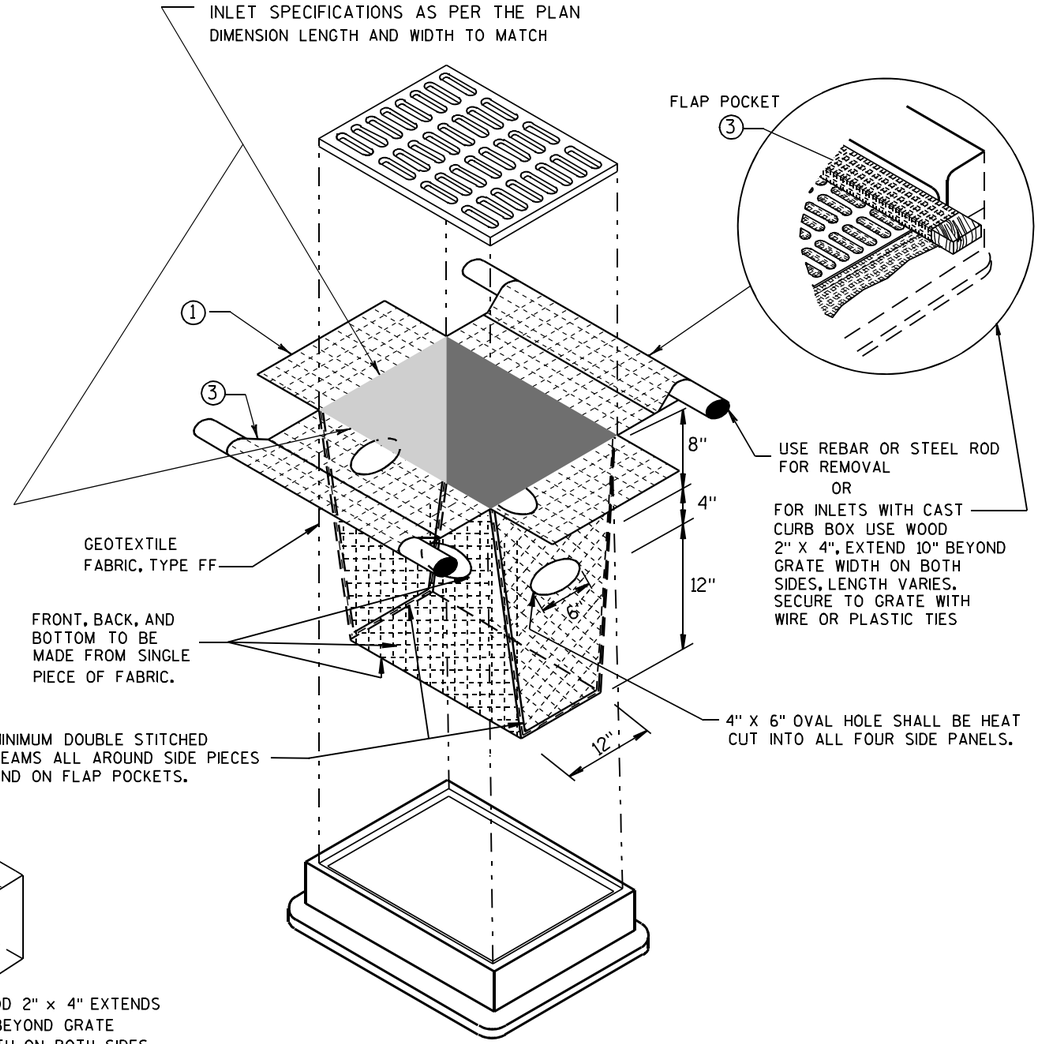


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

GENERAL NOTES

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

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

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

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

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

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

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

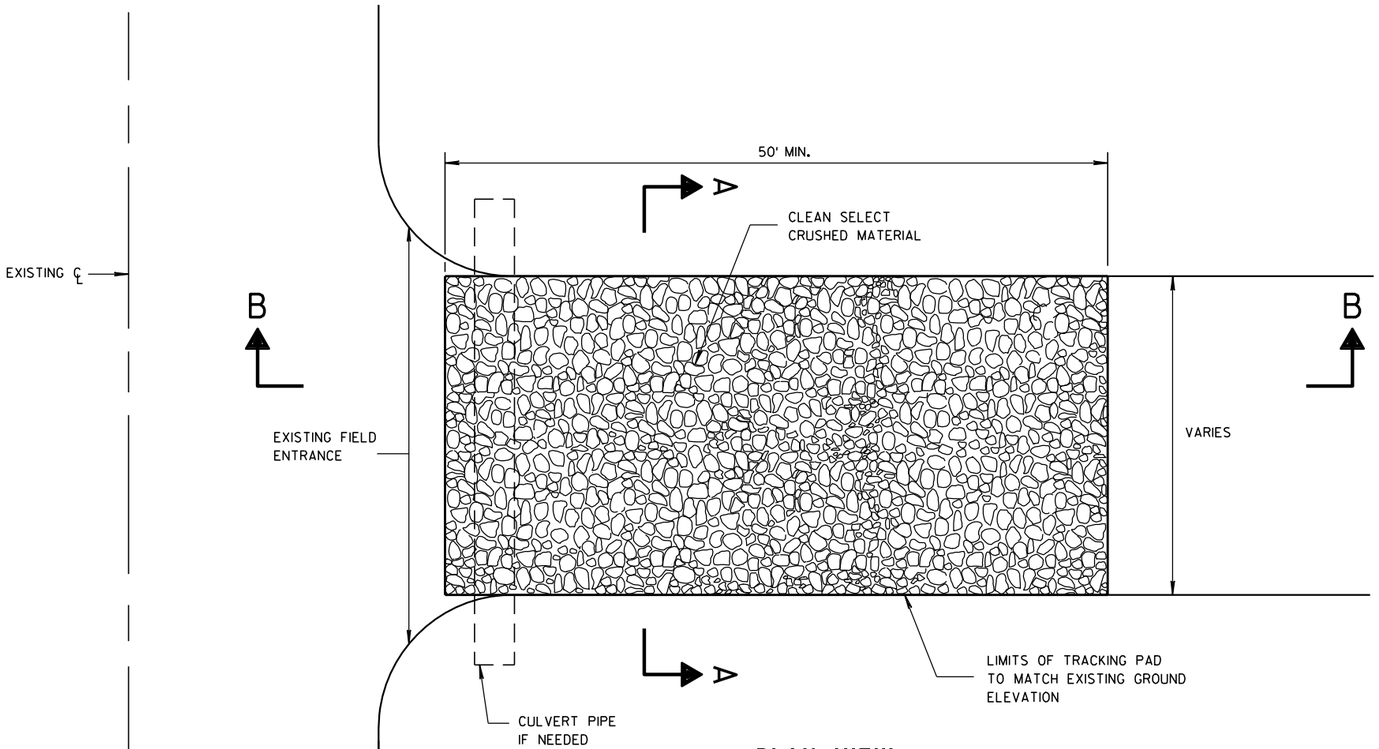
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE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

INLET PROTECTION
TYPE A, B, C, AND D

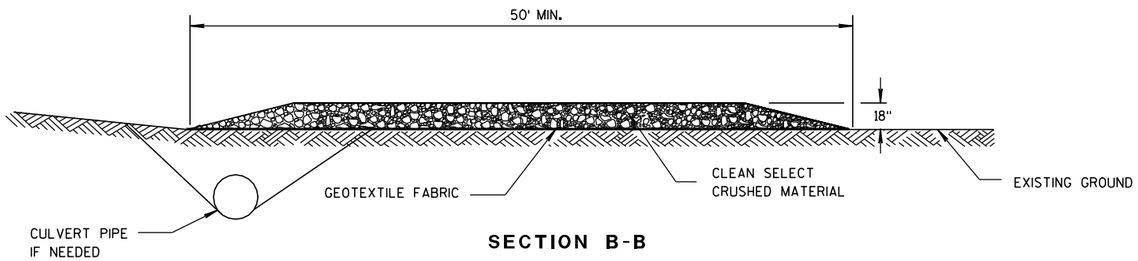
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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



PLAN VIEW



SECTION B-B

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

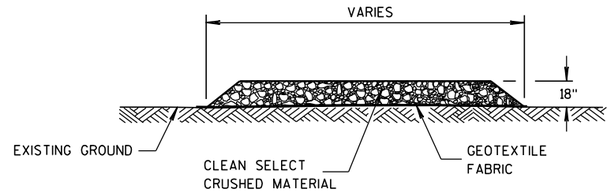
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

6

S.D.D. 8 E 14-1

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS ENGINEER
FHWA

ENT

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

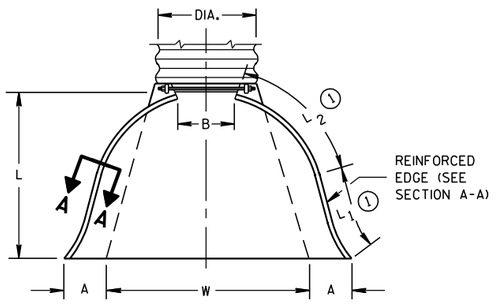
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

REINFORCED CONCRETE APRON ENDWALLS

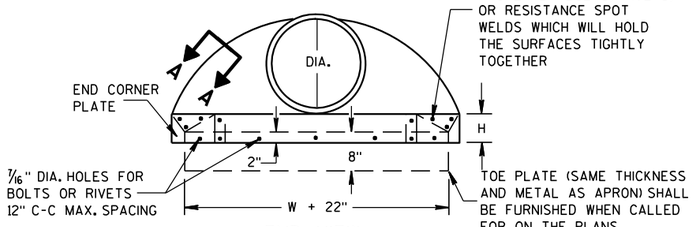
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3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

*MINIMUM
**MAXIMUM



REINFORCED EDGE (SEE SECTION A-A)

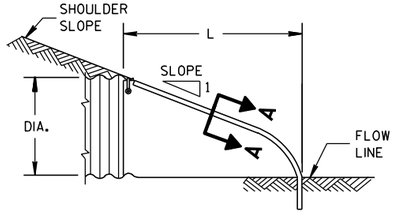
PLAN VIEW



END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER

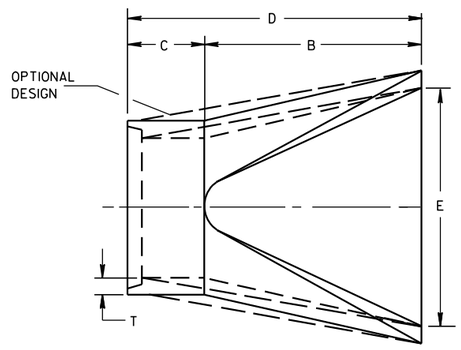
TOE PLATE (SAME THICKNESS AND METAL AS APRON) SHALL BE FURNISHED WHEN CALLED FOR ON THE PLANS

END VIEW

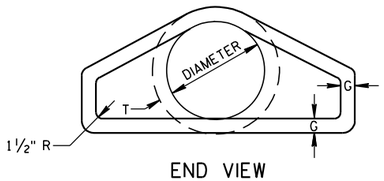


SIDE ELEVATION

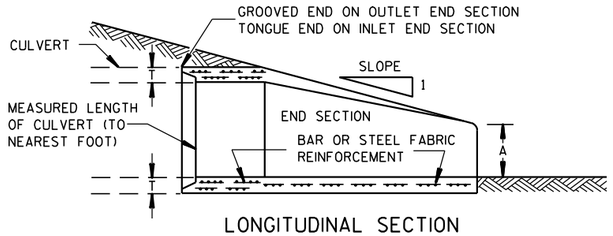
METAL ENDWALLS



PLAN

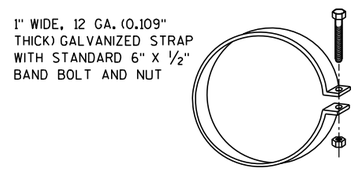


END VIEW



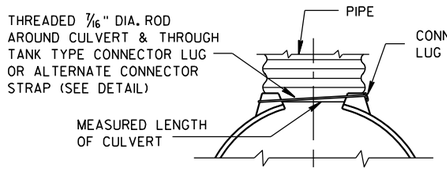
LONGITUDINAL SECTION

CONCRETE ENDWALLS

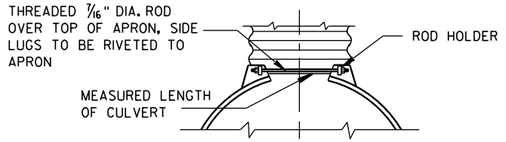


ALTERNATE FOR TYPE 1 CONNECTION

END SECTION CONNECTOR STRAP

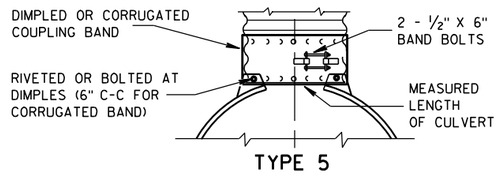


TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

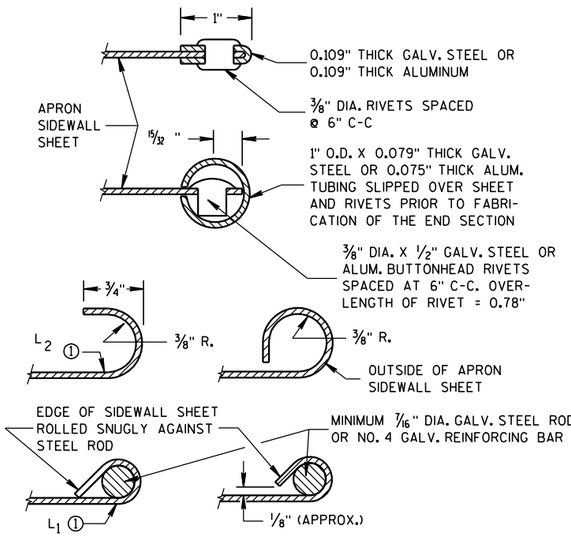
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

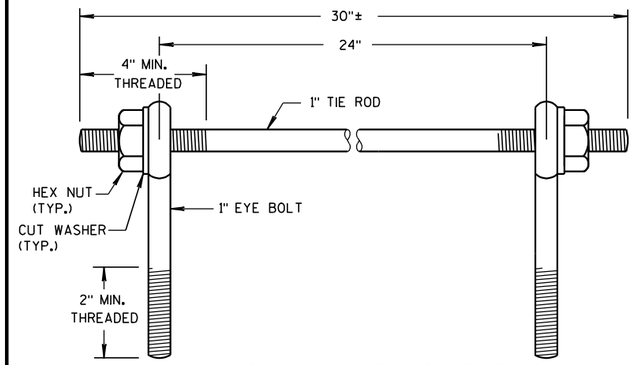
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

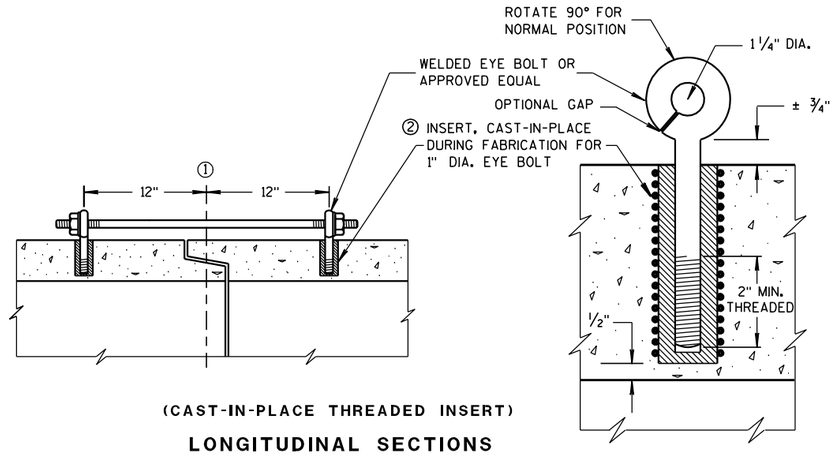
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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.

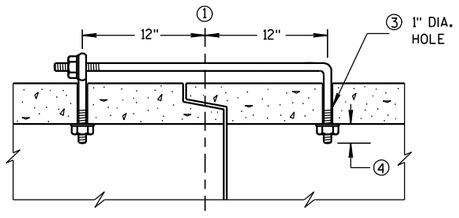
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

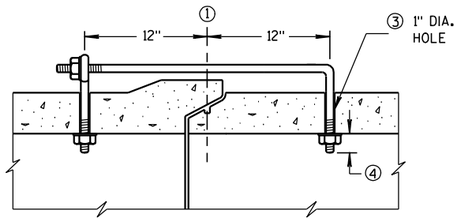
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

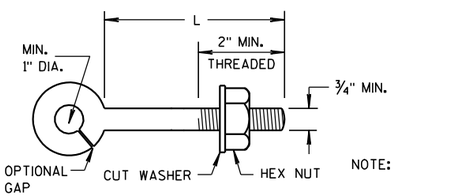


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

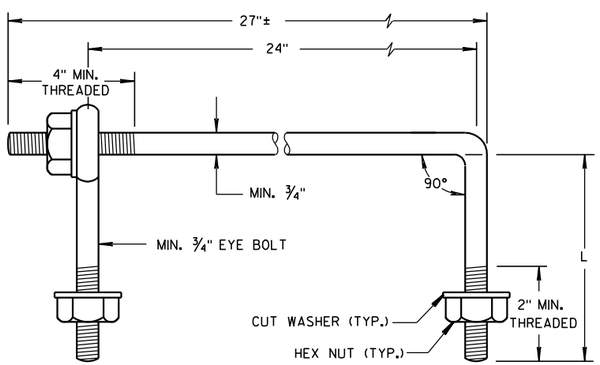
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

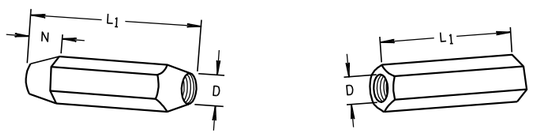
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

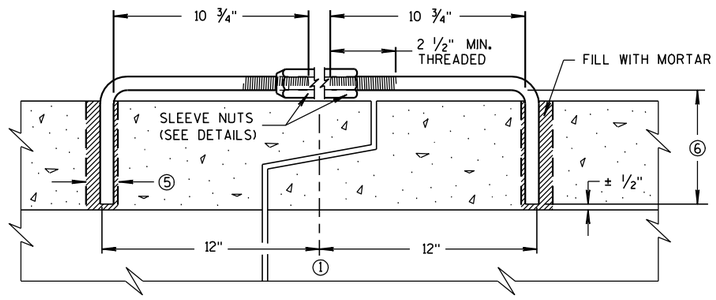
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

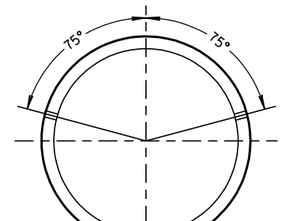
SLEEVE NUTS



LONGITUDINAL SECTION

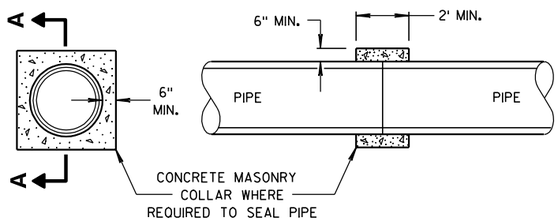
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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
228
FHWA

6

S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7

GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

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

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

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

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

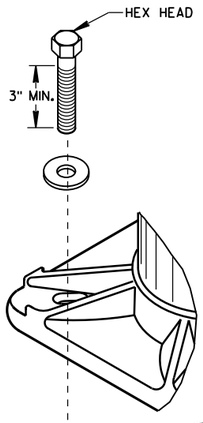
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

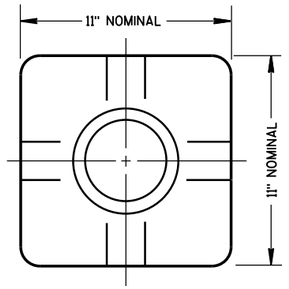
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

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

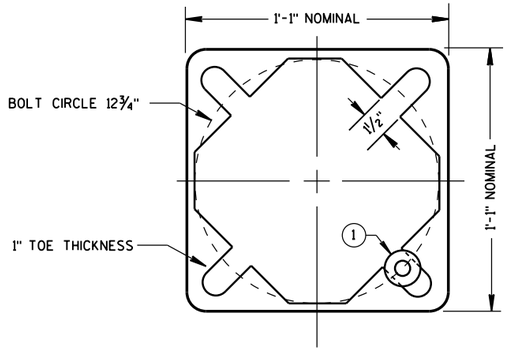
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

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

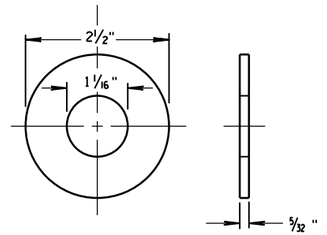




TOP VIEW
(PEDESTAL BASE)

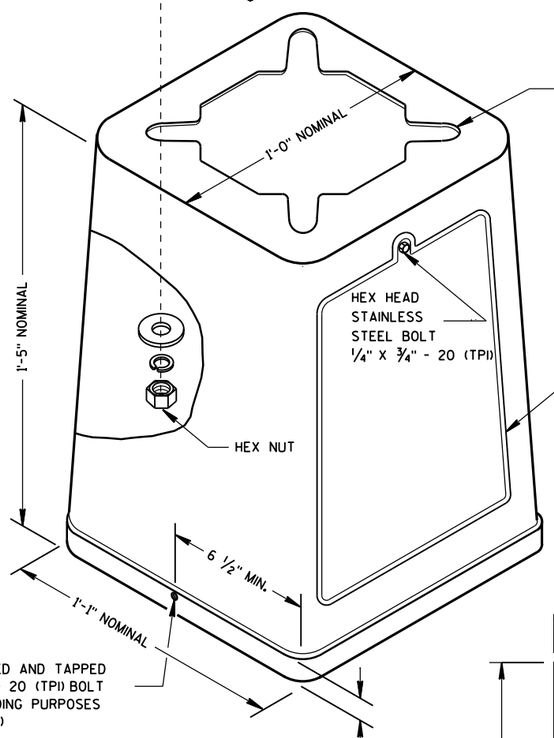


BOTTOM VIEW
(PEDESTAL BASE)

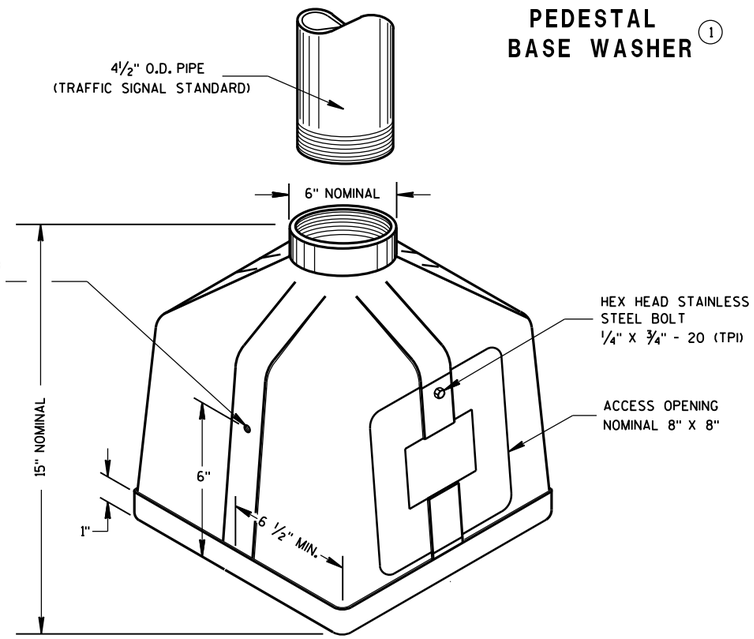


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

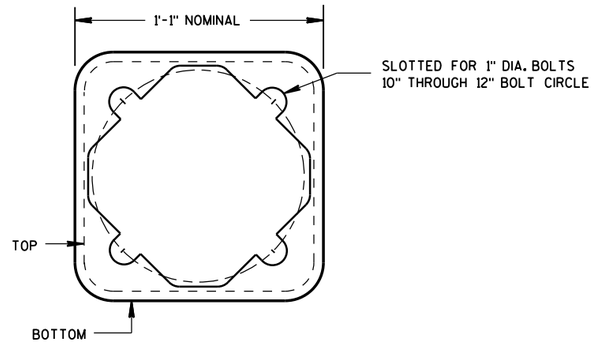


ISOMETRIC VIEW

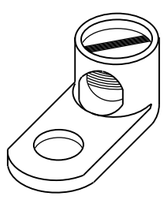


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

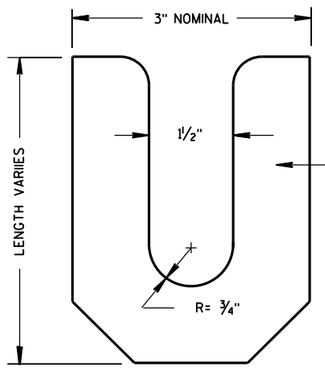


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

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



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

S.D.D. 9 C 3-4

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

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

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

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

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

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

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

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

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

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

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

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

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

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

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

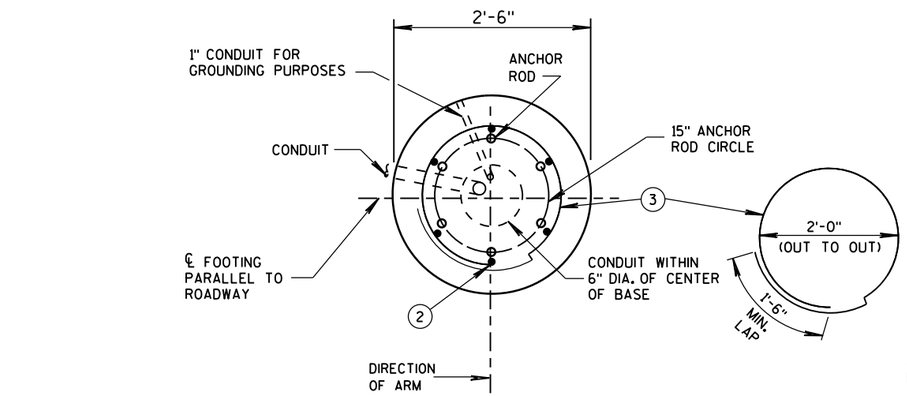
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

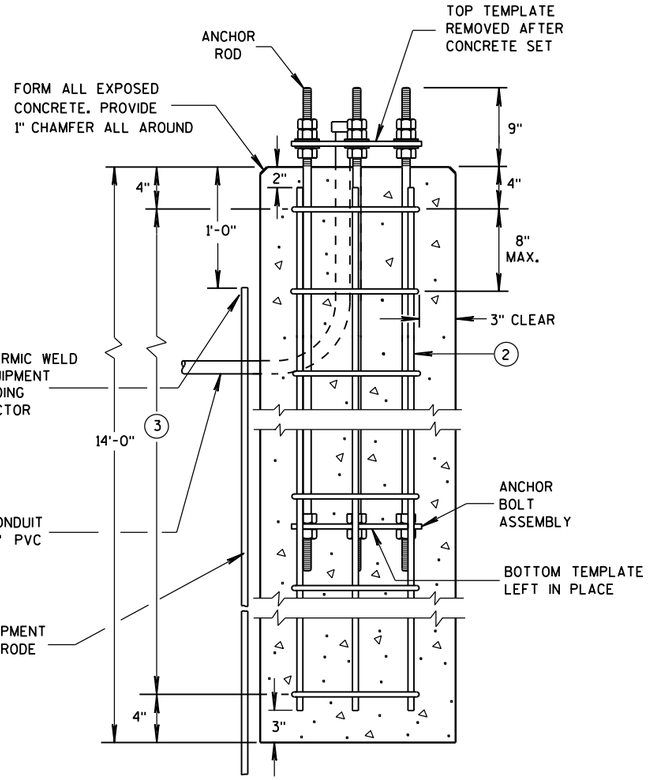
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES. (GREATER THAN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

(2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.

(3) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATION)	fy=55,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy=36,000 p.s.i.

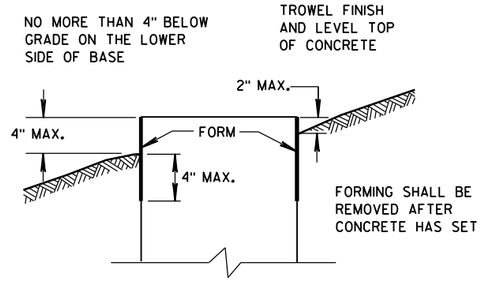




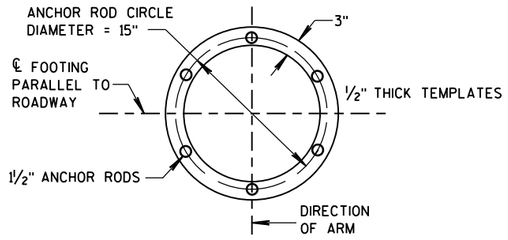
CONCRETE BASE TYPE 10

(FOR TYPE 9 & 10 & OVER HEIGHT (OH) POLES)

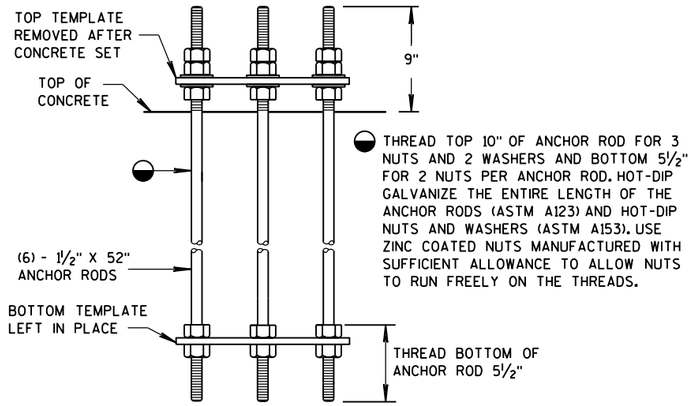
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 ANCHOR ASSEMBLY

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122

CONCRETE BASE TYPE 10

STATE OF WISCONSIN
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May 2017 — DATE
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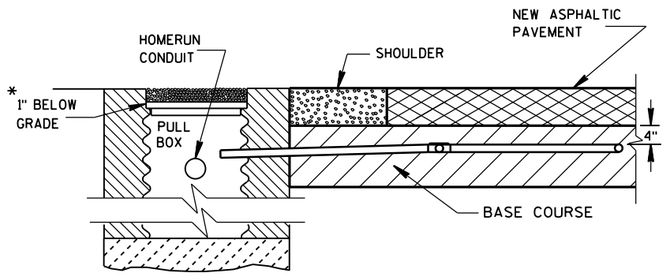
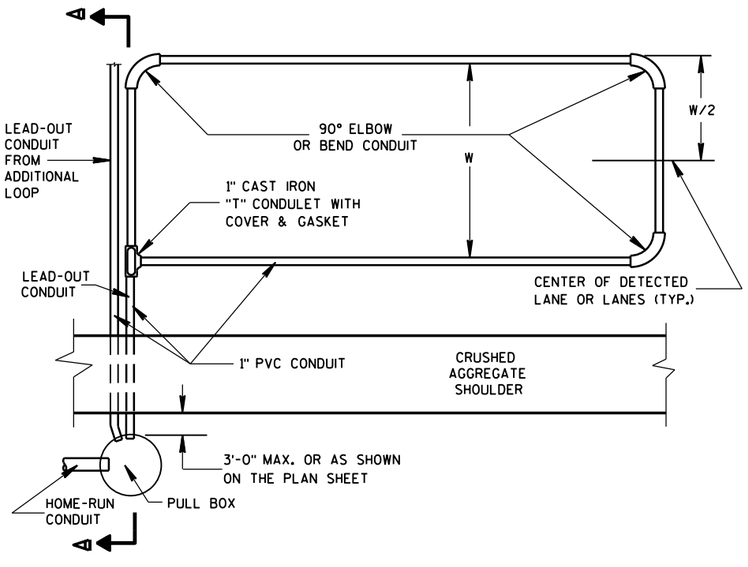
S.D.D. 9 C 11-10



SECTION A-A
NO CURB & GUTTER

DETECTOR LOOP INSTALLATION DETAIL

*RECESS PULL 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.



TYPICAL PLAN OF LOOP DETECTOR

GENERAL NOTES

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

LOOP SIZE, 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 BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

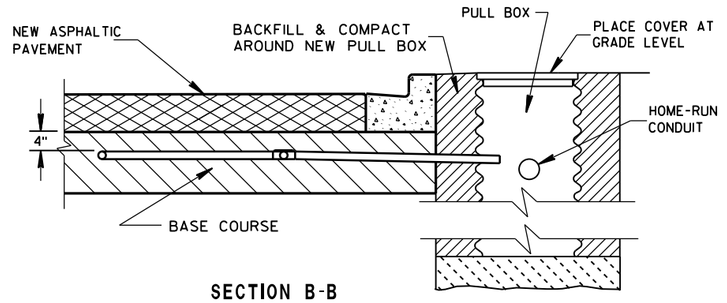
SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP DUCT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT AND CONDULET SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE THE ASPHALTIC PAVEMENT IS PLACED.

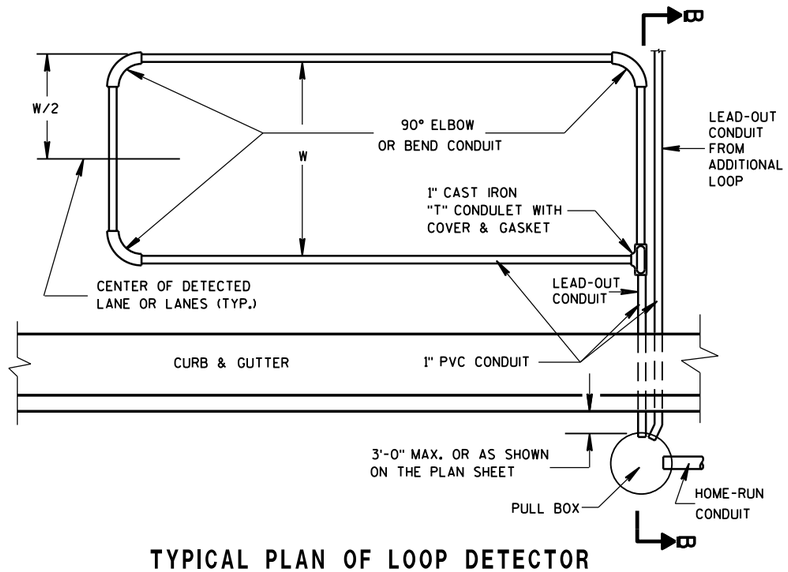
WHEN MULTIPLE LAYERS OF ASPHALTIC PAVEMENT ARE TO BE PLACED, LOOPS MAY BE INSTALLED BY SAWING A TWO INCH WIDE SLOT IN THE FIRST LAYER, DIG OUT THE ASPHALTIC MATERIAL AND BASE COURSE, PLACE THE LOOP, FILL THE SLOT WITH BASE COURSE MATERIAL AND NEW ASPHALTIC MATERIAL AND TAMP THE ASPHALTIC MATERIAL IN PLACE.

SHOULD TRAFFIC BE ALLOWED TO USE THE AREA OF ROADWAY WITH THE NEWLY INSTALLED LOOP BEFORE THE PLACEMENT OF THE NEXT LAYER OF ASPHALTIC PAVEMENT, THE SLOT/PAVEMENT OPENING SHALL BE SEALED WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".



SECTION B-B
CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAIL



TYPICAL PLAN OF LOOP DETECTOR

LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW ASPHALTIC PAVEMENT)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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S.D.D. 9 F 8-4

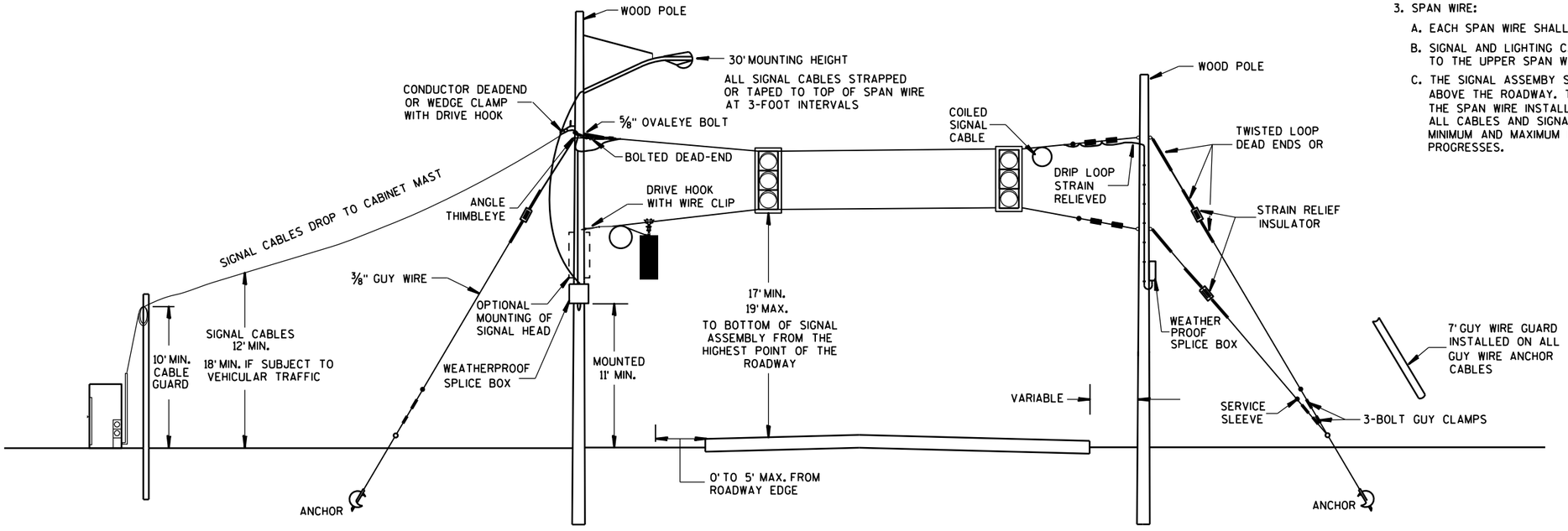
GENERAL NOTES

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

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.

3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS

MINIMUM POLE LENGTHS	POLE BURIEL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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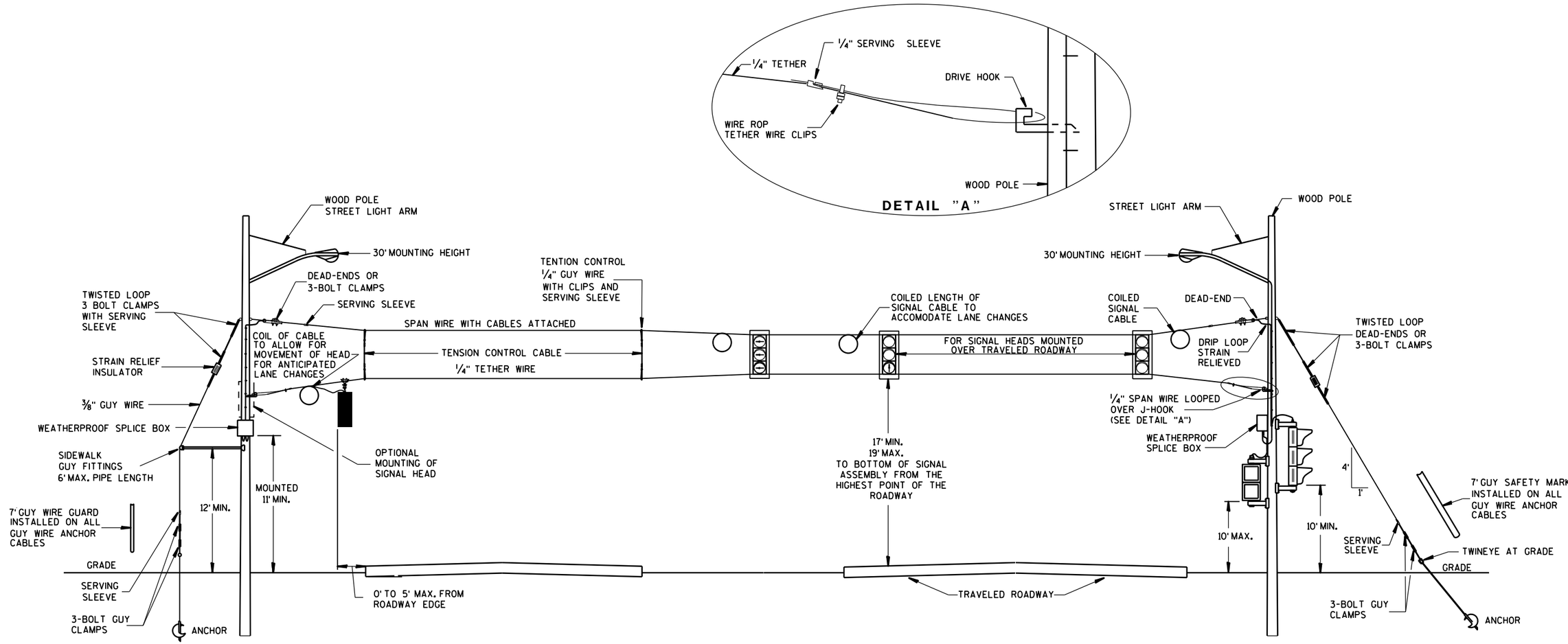
S.D.D. 9 G 1-4a



GENERAL NOTES

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   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
3. SPAN WIRE:
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   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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June. 2015 — DATE
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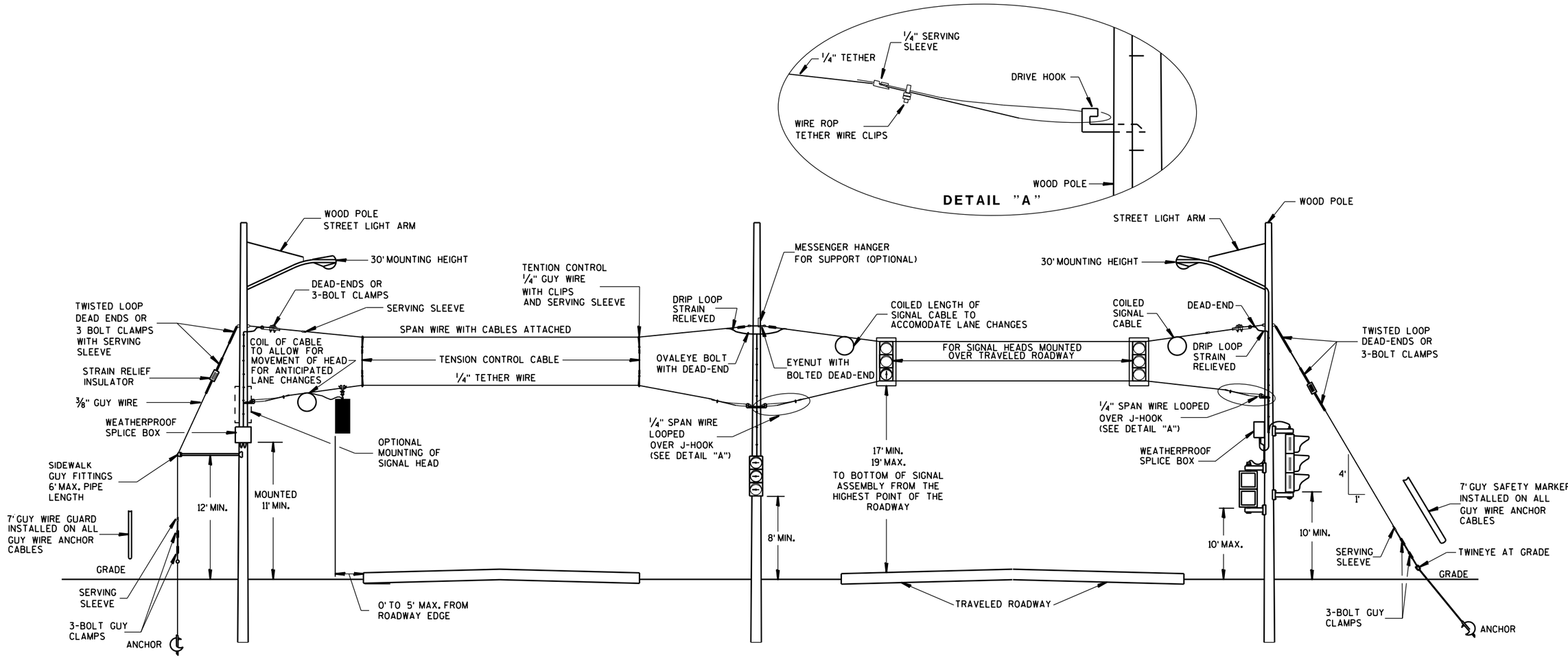
S.D.D. 9 G 1-4b



SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

GENERAL NOTES

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

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   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.

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MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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June. 2015 — DATE
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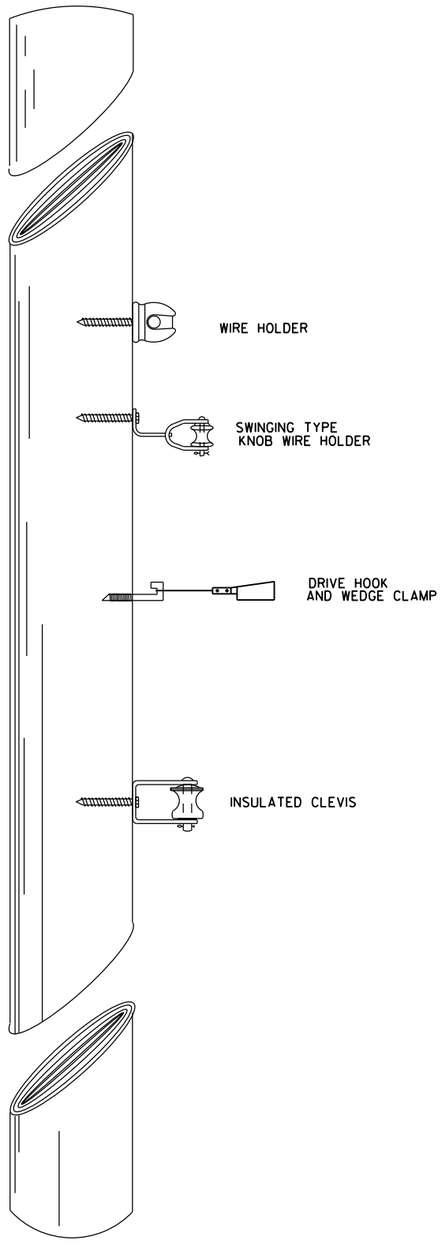
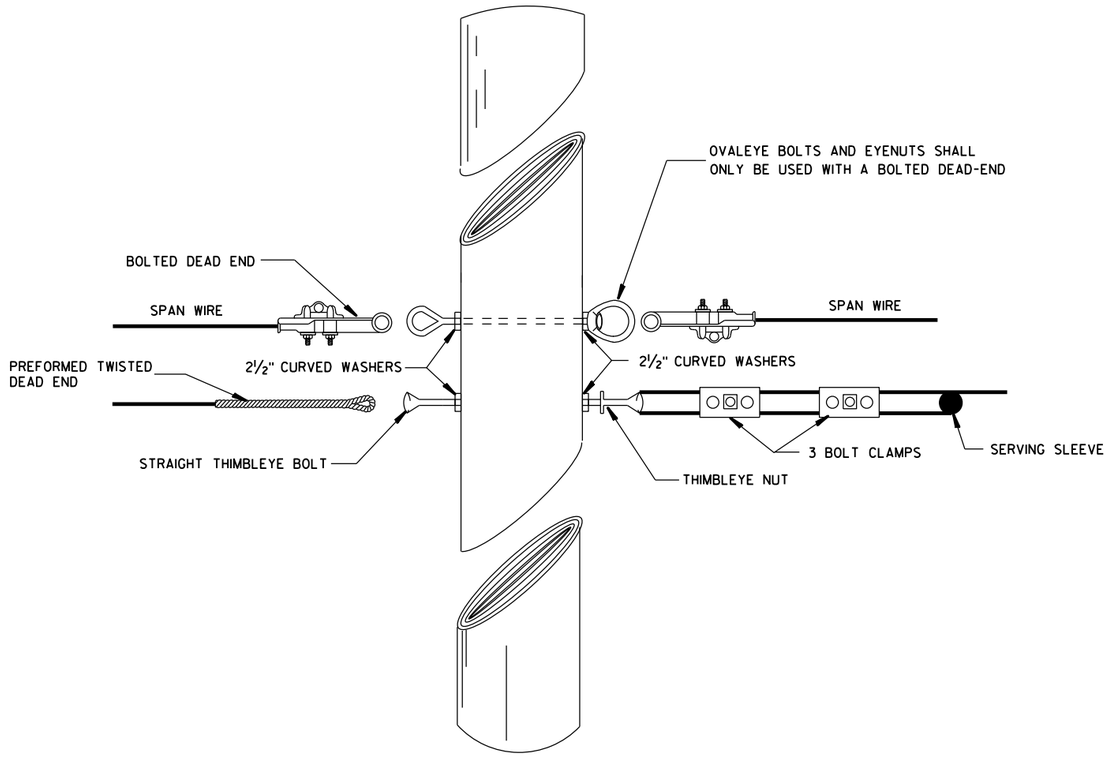
S.D.D. 9 G 1-4c



TYPICAL CABLE HANGERS



TYPICAL DEAD-ENDING

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
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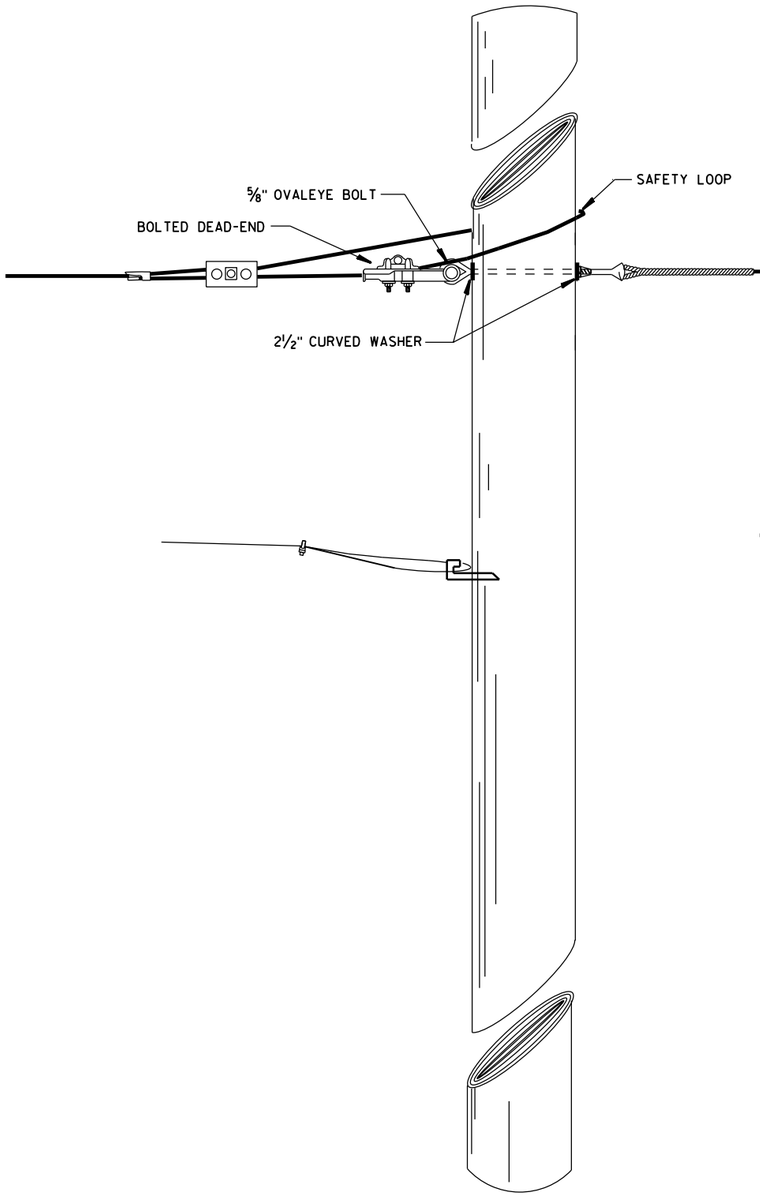
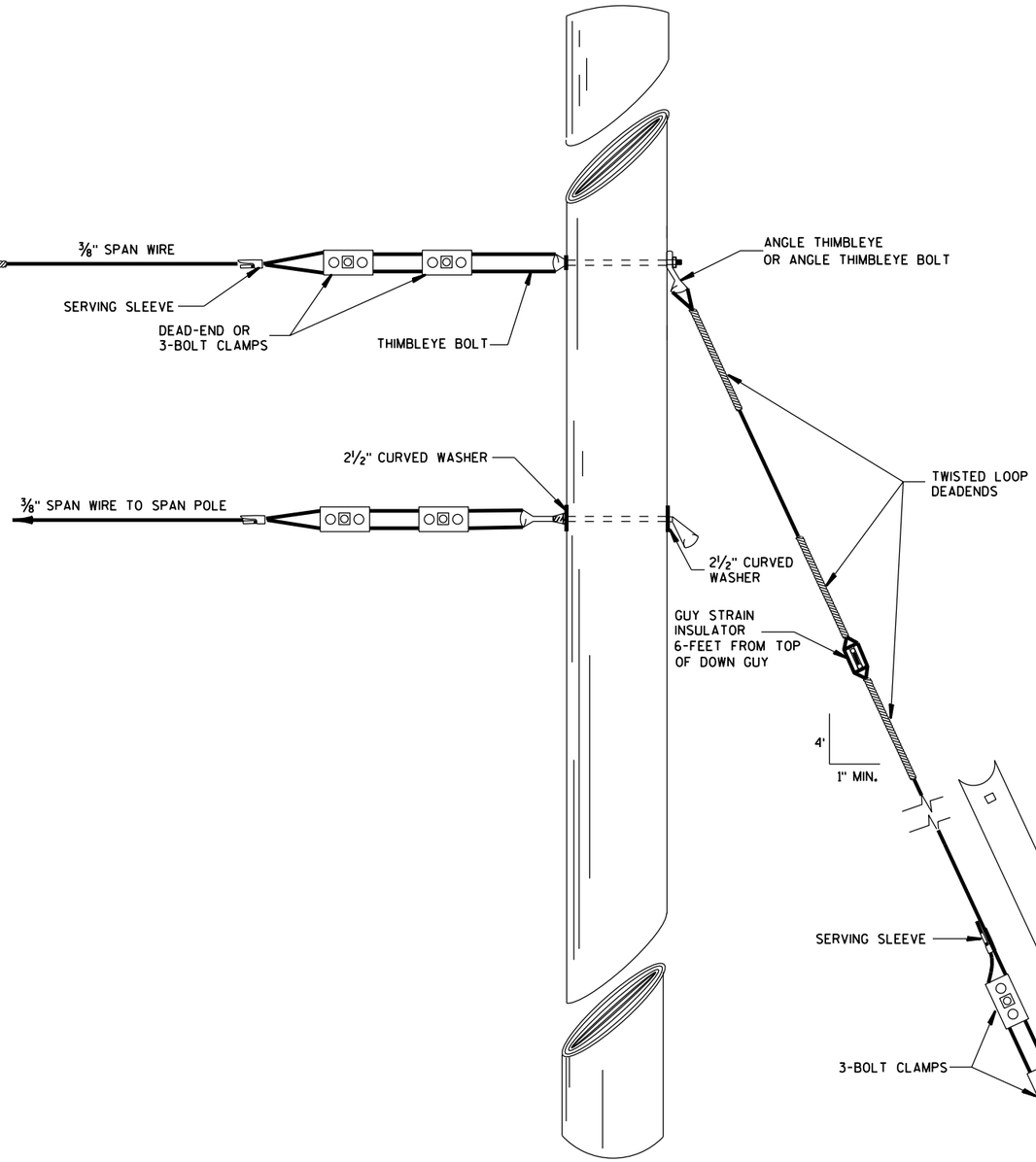
GENERAL NOTES

1. USE ¾" DRILL IN WOOD POLE TO PROVIDE HOLE FOR ⅝" BOLTS.
2. SAFTY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE



GUY POLE

TYPICAL DEAD-ENDINGS OR GUYING

SPAN WIRE TEMPORARY TRAFFIC SIGNAL
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED June. 2015 DATE /S/ Ahmet Demirbilek STATE ELECTRICAL

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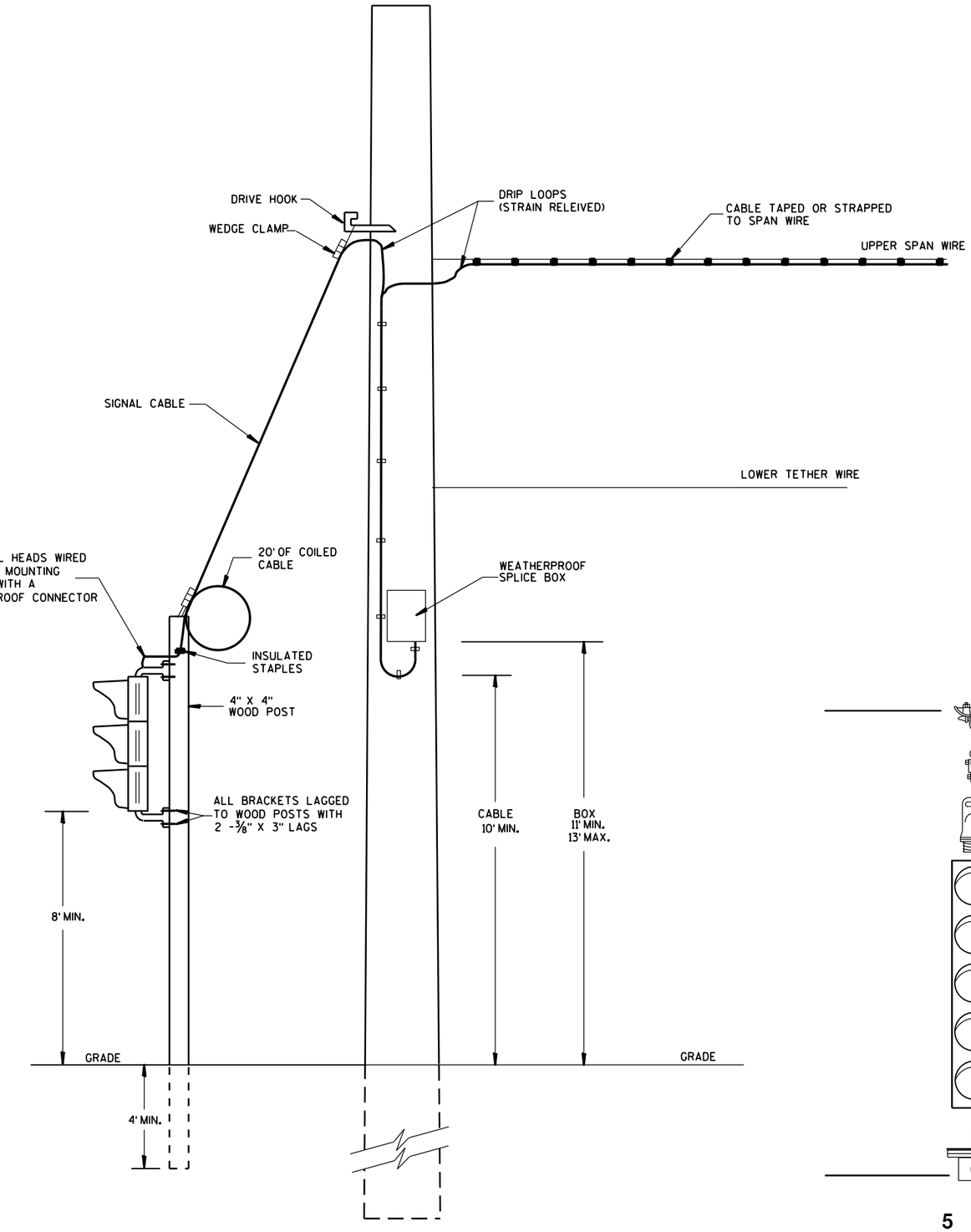
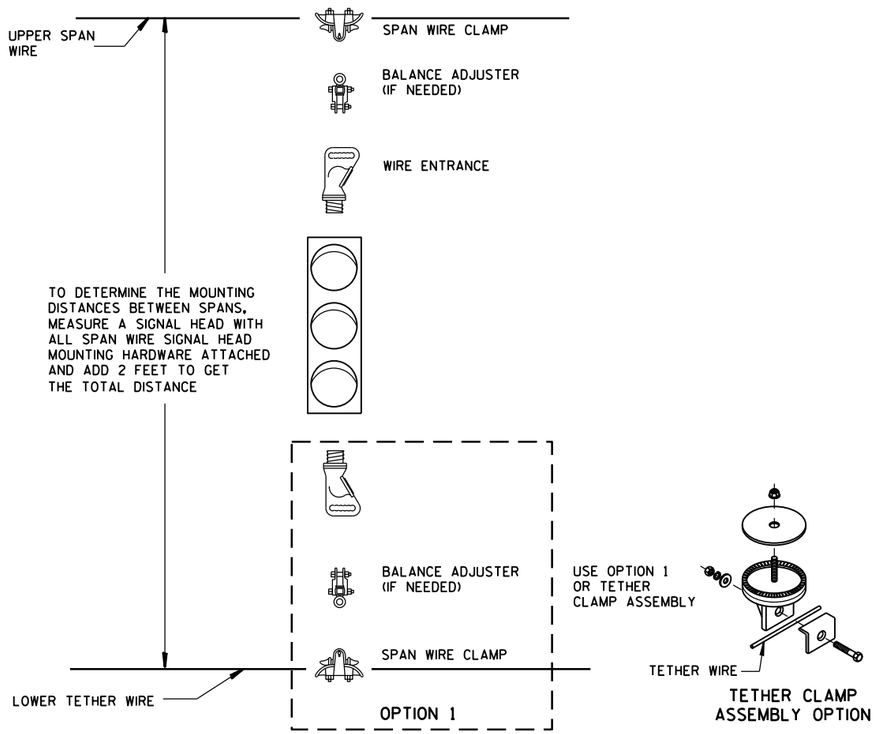
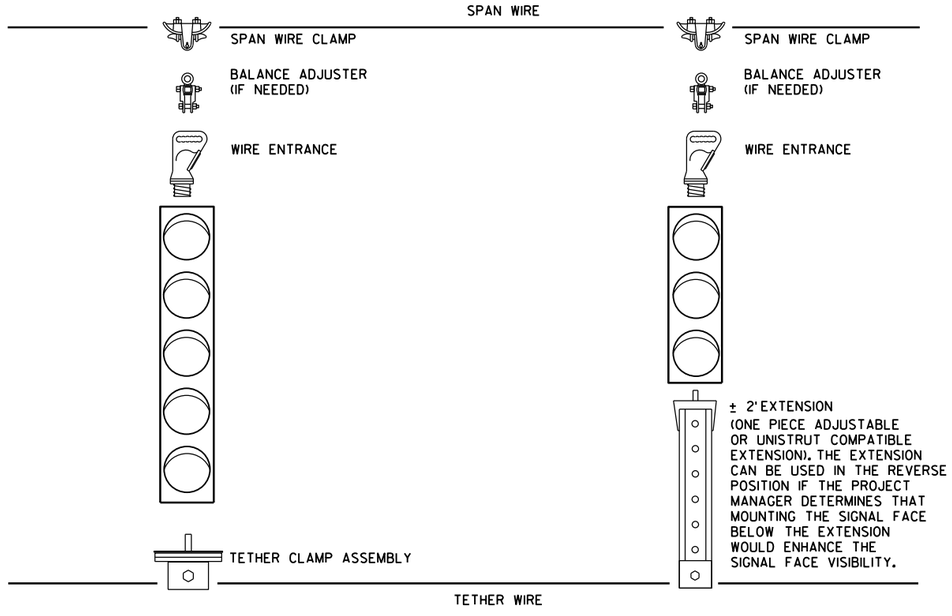


TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TETHER CLAMP ASSEMBLY OPTION

TYPICAL SPAN WIRE MOUNTING HARDWARE



5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

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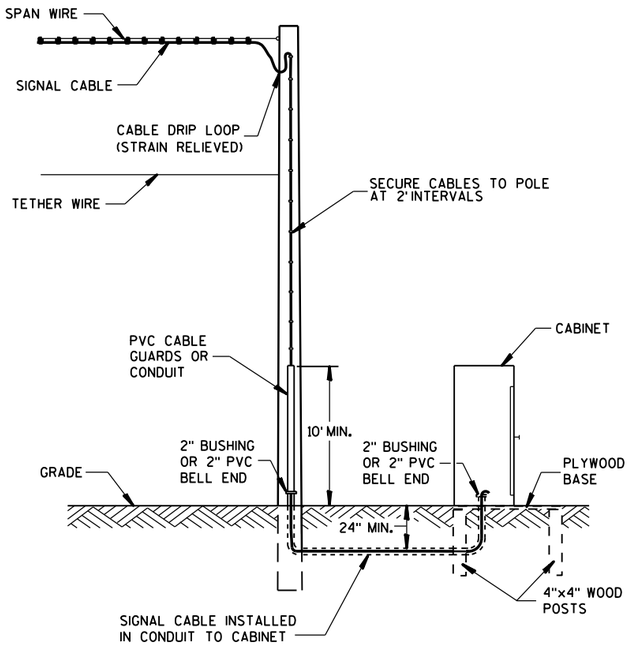
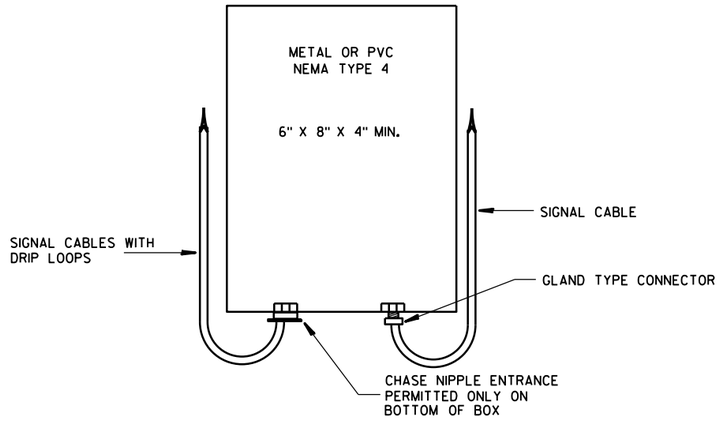
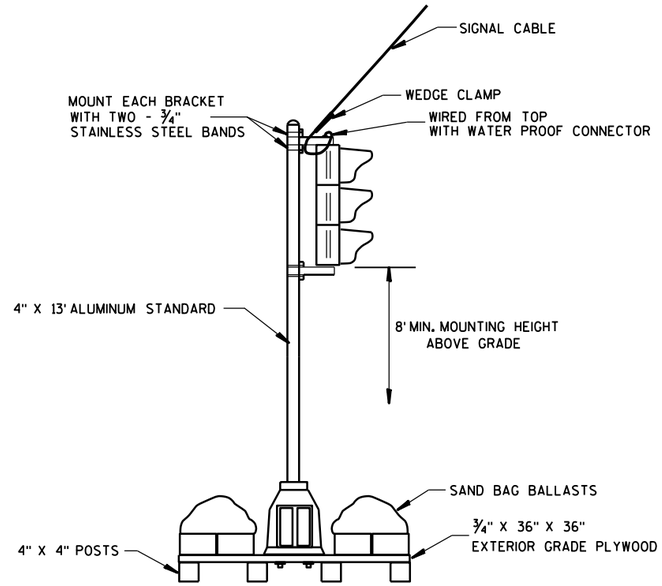
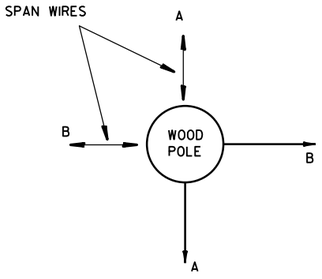




SPLICE BOX

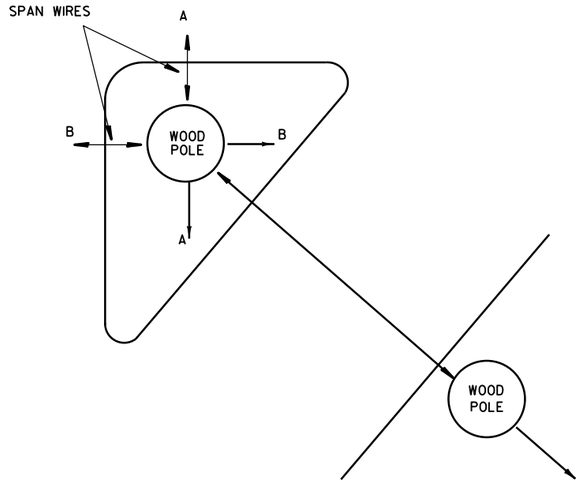


TYPICAL SKID TYPE TEMPORARY

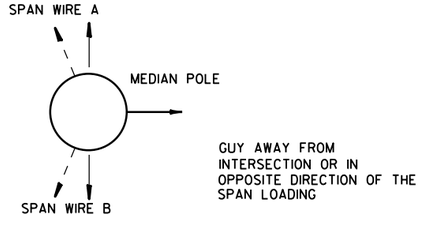


ALL DOWN OR SIDEWALK GUYS
SHALL BE INSTALLED IN THE
OPPOSITE DIRECTION OF THE
STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



GUY AWAY FROM
INTERSECTION OR IN
OPPOSITE DIRECTION OF THE
SPAN LOADING

MEDIAN POLES

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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S.D.D. 9 G 1-4g

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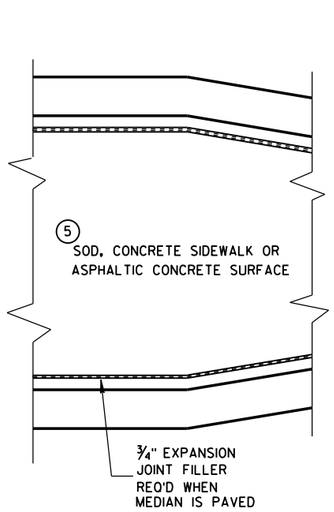
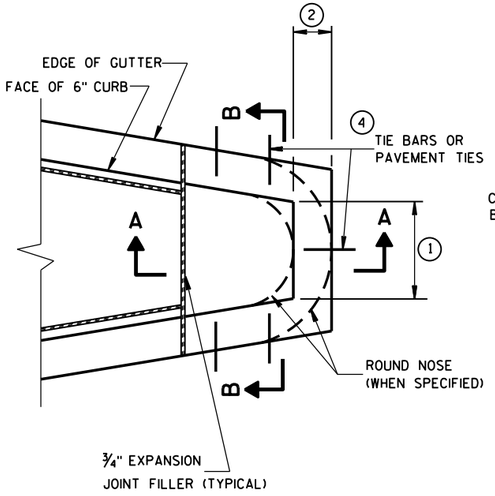
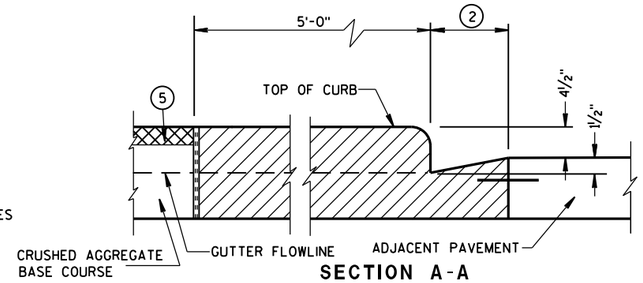
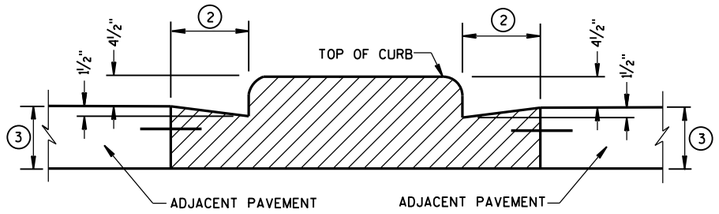
S.D.D. 9 G 1-4g







SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

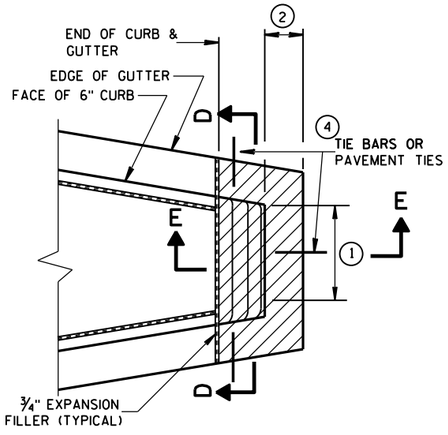
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

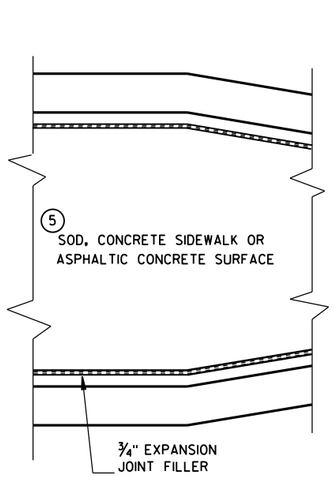
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

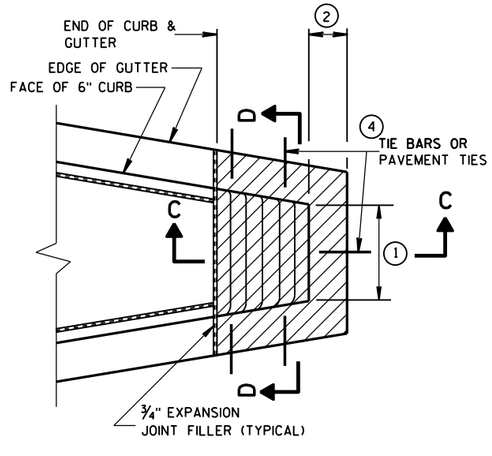
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

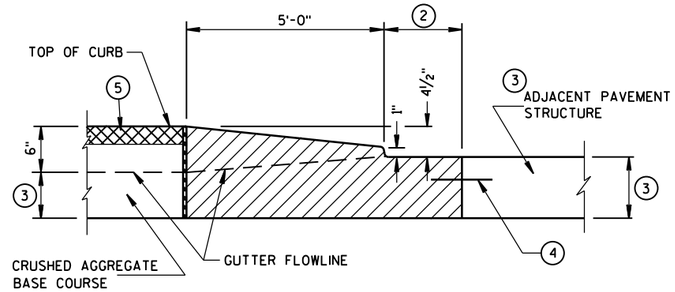
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



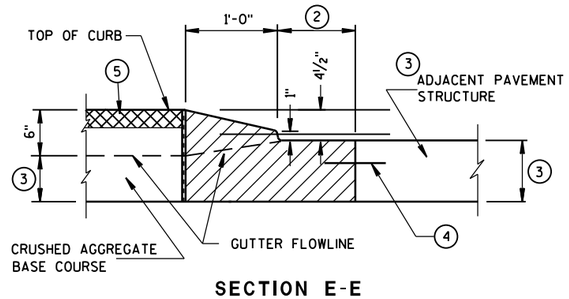




CONCRETE MEDIAN SLOPED NOSE TYPE 1

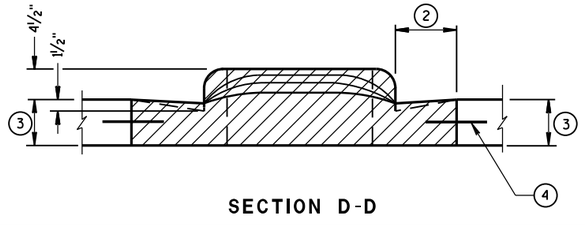


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 11 B 2-2

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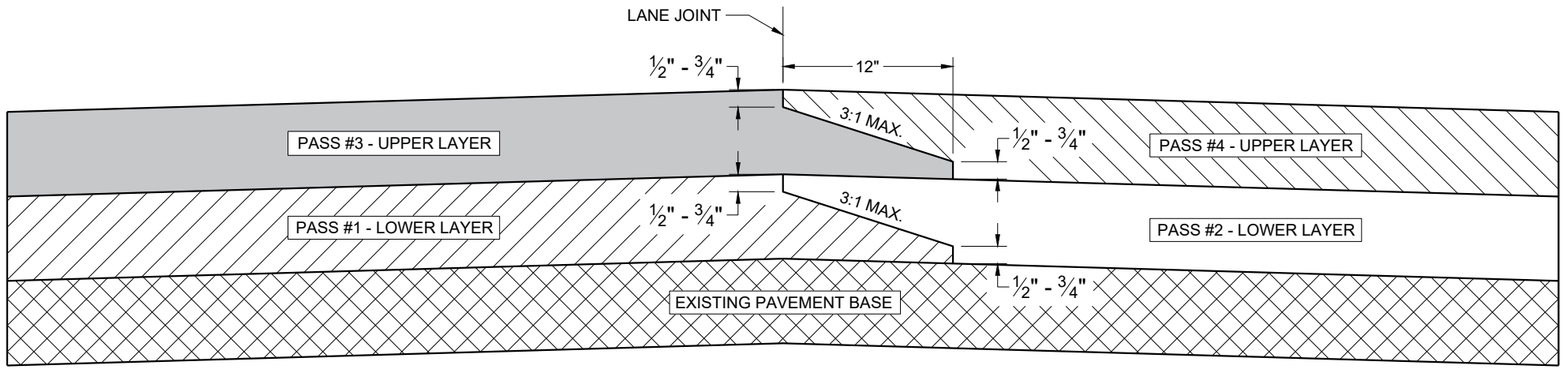
S.D.D. 11 B 2-2

GENERAL NOTES

CONFORM TO STANDARD SPECIFICATION 450.3.2.8



TYPICAL PAVEMENT CROSS SECTION
OF NOTCHED WEDGE LONGITUDINAL JOINTS

6

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SDD 13C19 - 01

SDD 13C19 - 01

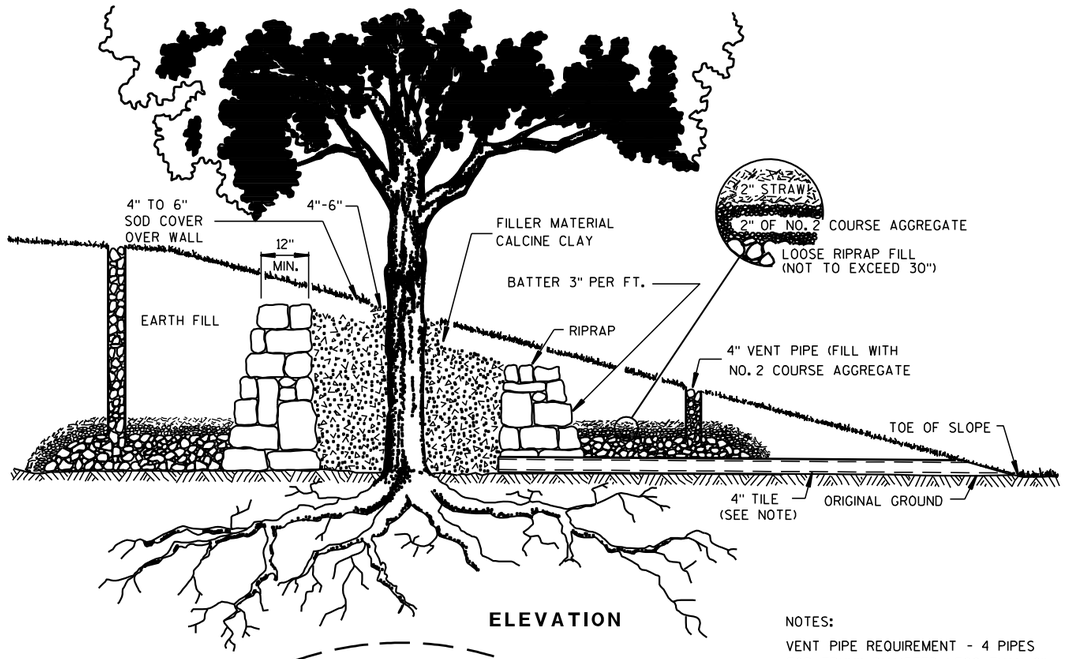
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

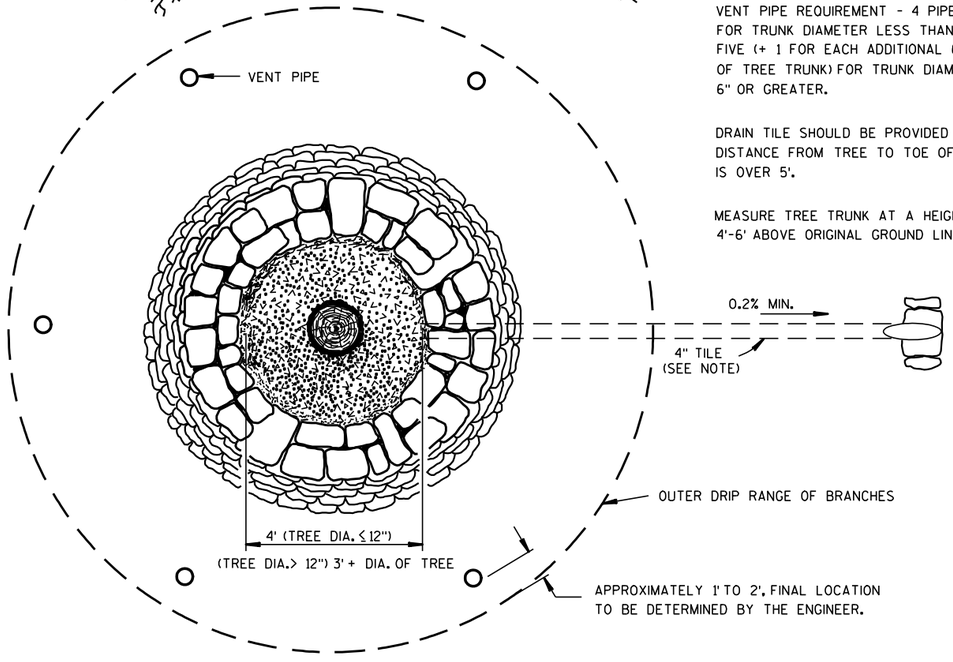
APPROVED
May 2019
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



ELEVATION



PLAN

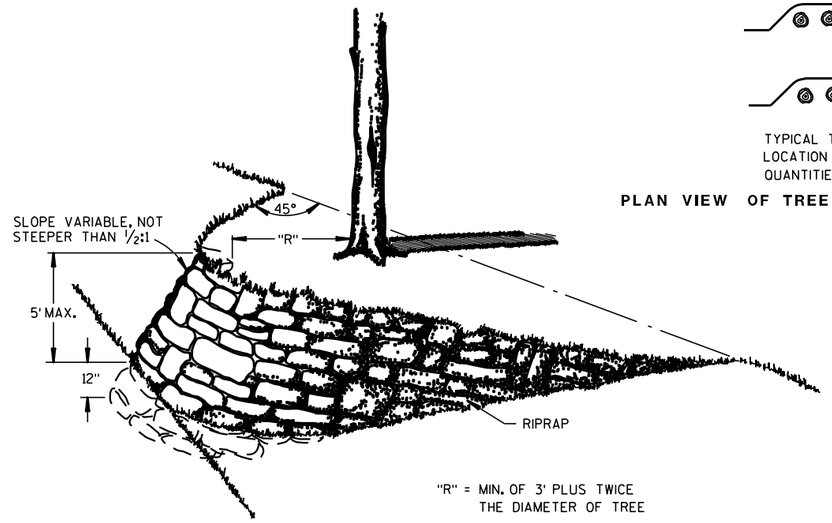
FULL TREE WELL WITH RIPRAP WALL

NOTES:

VENT PIPE REQUIREMENT - 4 PIPES FOR TRUNK DIAMETER LESS THAN 6". FIVE (+ 1 FOR EACH ADDITIONAL 6" OF TREE TRUNK) FOR TRUNK DIAMETER 6" OR GREATER.

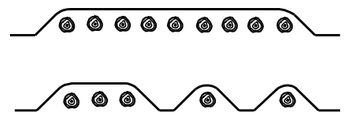
DRAIN TILE SHOULD BE PROVIDED IF DISTANCE FROM TREE TO TOE OF SLOPE IS OVER 5'.

MEASURE TREE TRUNK AT A HEIGHT 4'-6' ABOVE ORIGINAL GROUND LINE.



"R" = MIN. OF 3' PLUS TWICE THE DIAMETER OF TREE

DETAILS OF TREE ISLAND AND ROOT PROTECTION



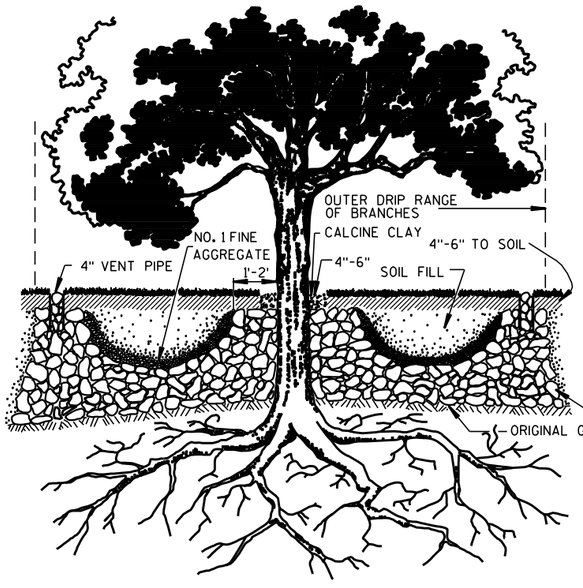
TYPICAL TREATMENTS OF ROOT PROTECTION. LOCATION SHOWN ON MISCELLANEOUS QUANTITIES SHEET.

PLAN VIEW OF TREE ISLANDS FOR ONE OR MORE TREES

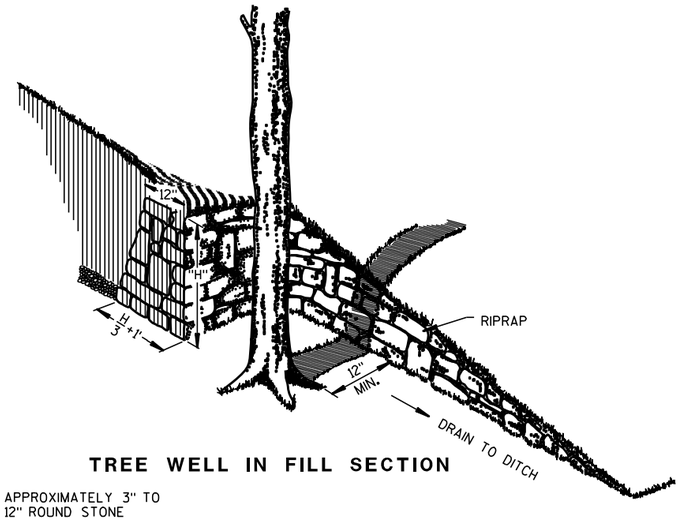
GENERAL NOTES

WALLS TO BE BUILT TO APPROXIMATE SHAPE AND DIMENSIONS SHOWN. STONE TO CONFORM TO SPECIFICATIONS FOR RIPRAP.

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



TREE WELL WITHOUT WALL



TREE WELL IN FILL SECTION

DETAILS FOR TREE WELLS

TREE PRESERVATION DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/25/76 DATE

/S/ D. L. Strand STATE DESIGN ENGINEER

241 WYS

FHWA

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S.D.D. 14 A 1-3

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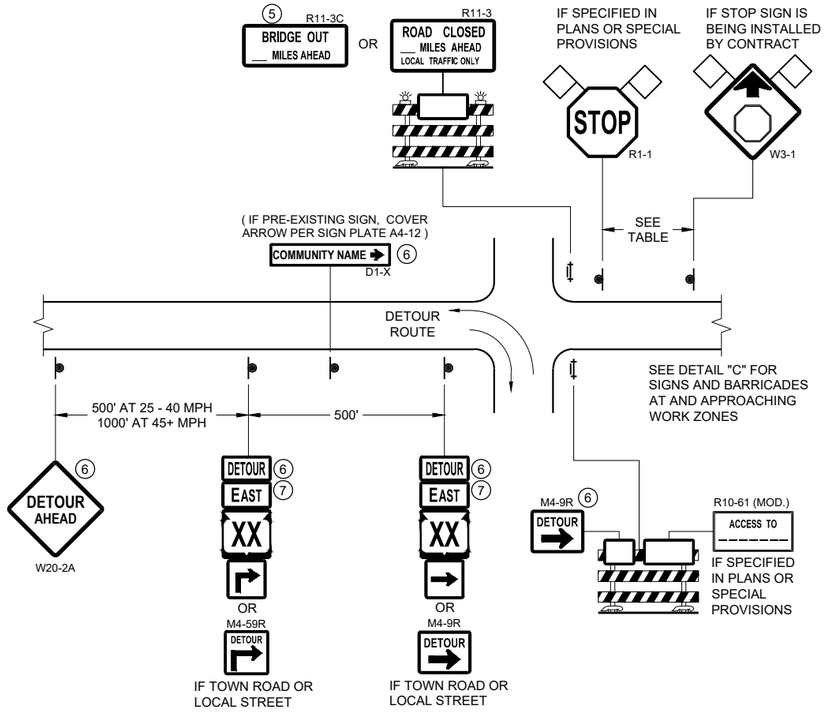
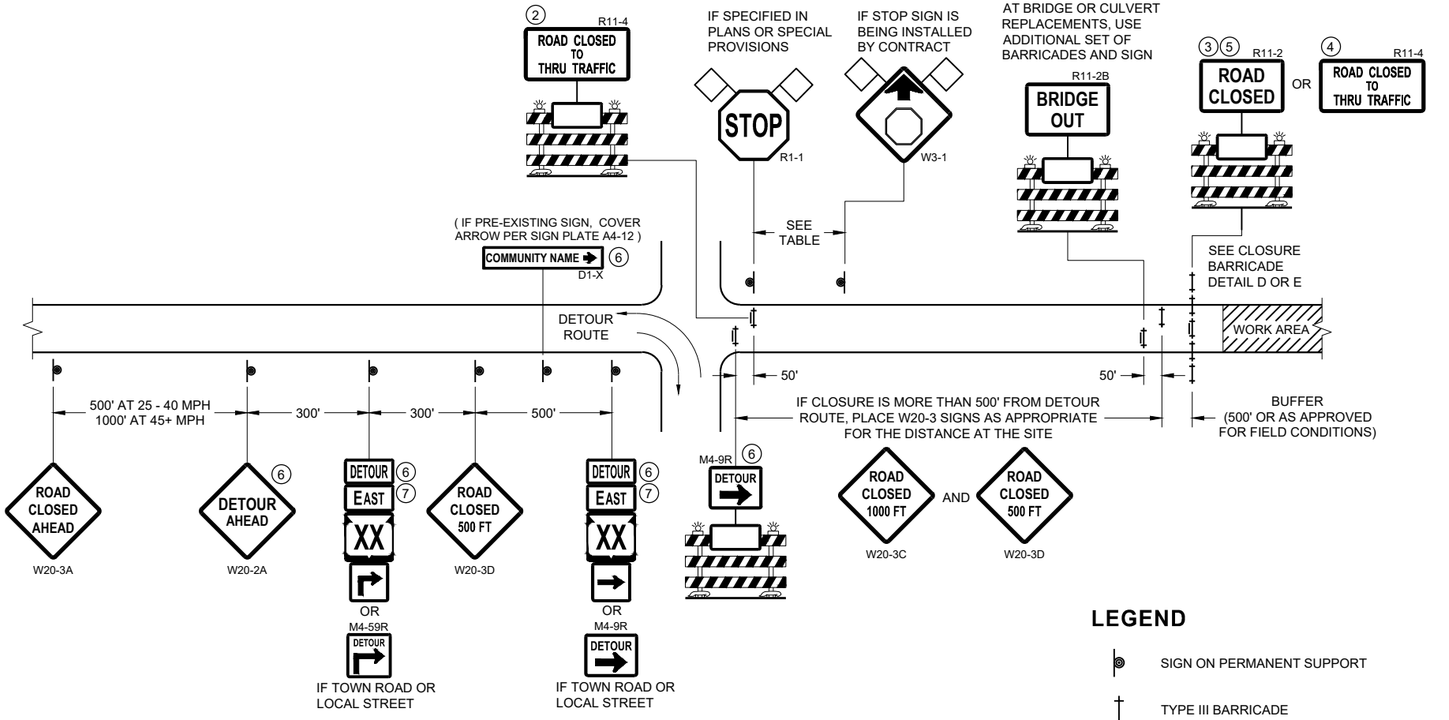
S.D.D. 14 A 1-3



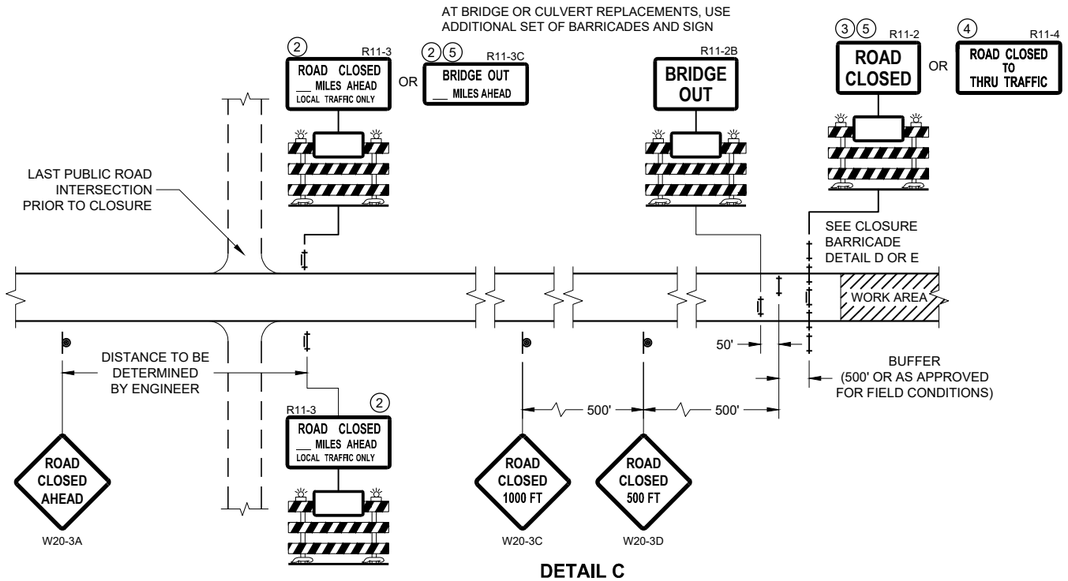


DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

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



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
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

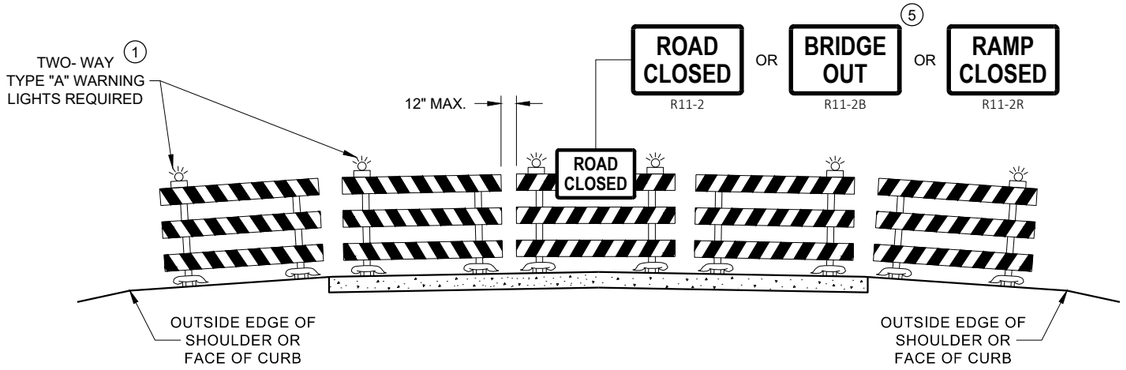
APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

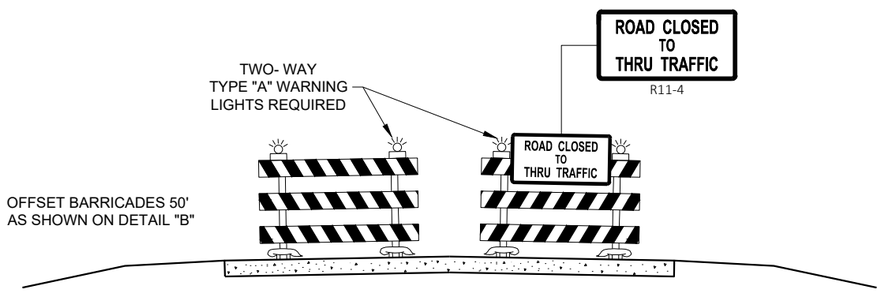
6

SDD 15C02 - 07a

SDD 15C02 - 07a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

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

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

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

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

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

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

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

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

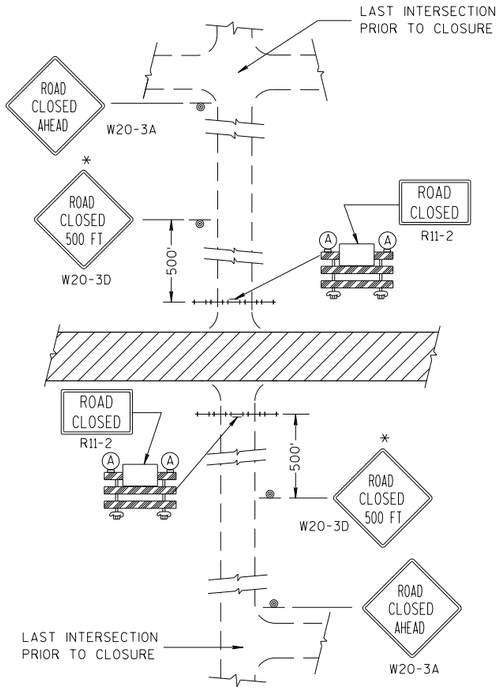
APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 07b

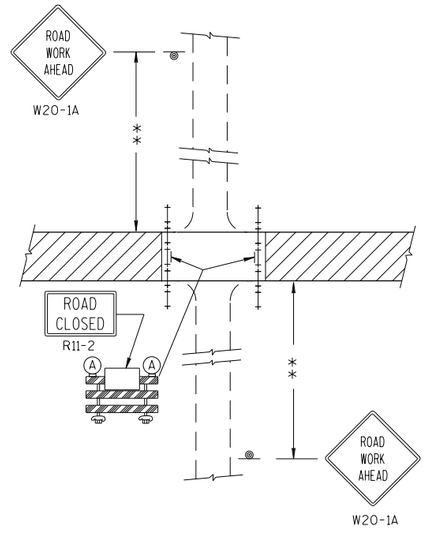
6

SDD 15C02 - 07b



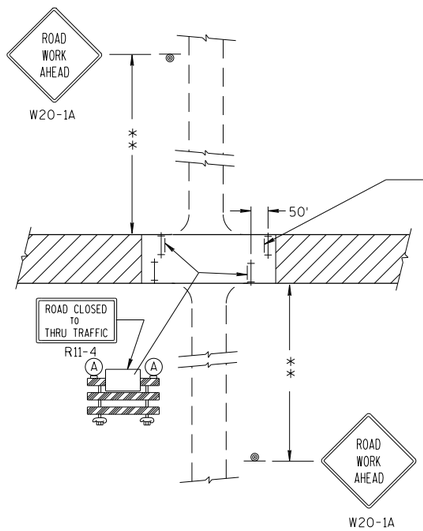
DETAIL 1

(NO ACCESS TO PROJECT)



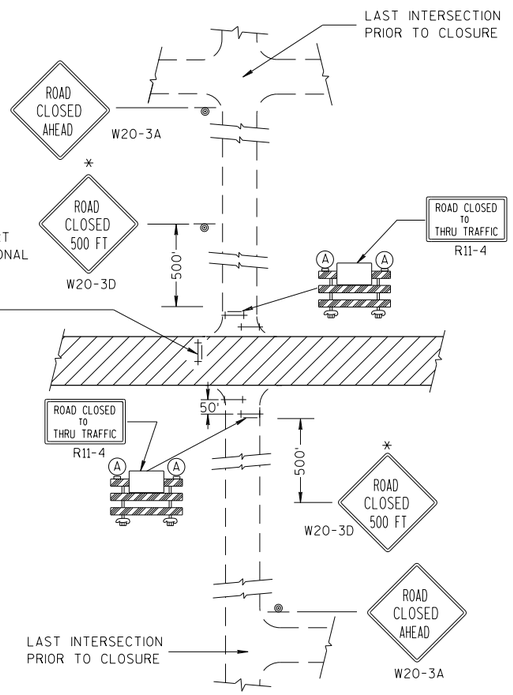
DETAIL 2

(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

7/2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGI

FHWA

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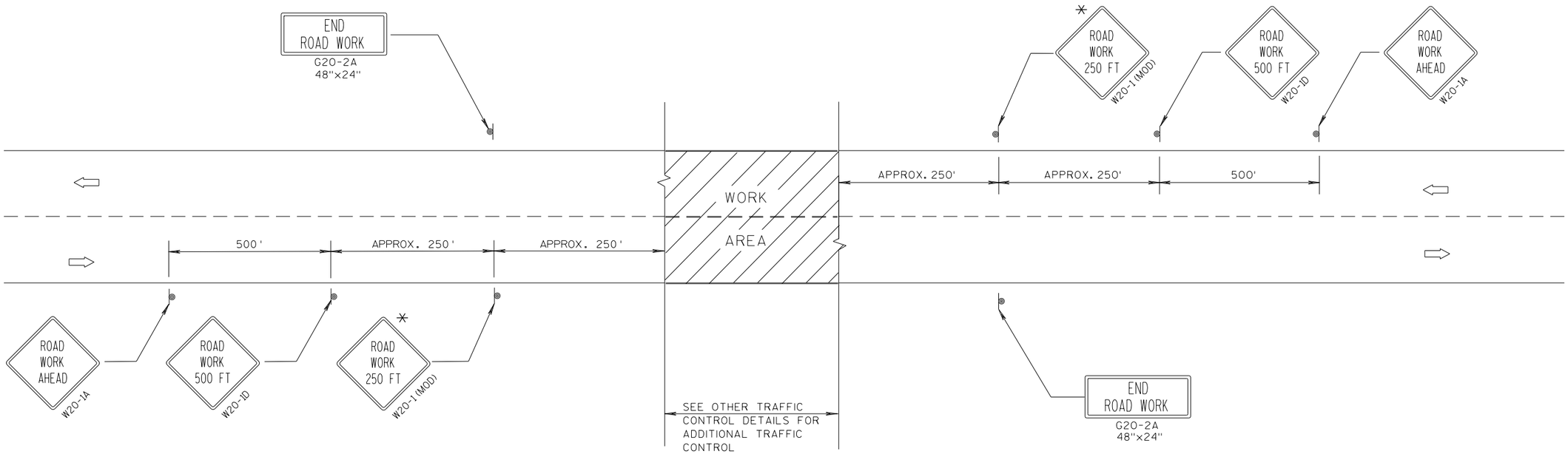
S.D.D. 15 C 3-5

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.

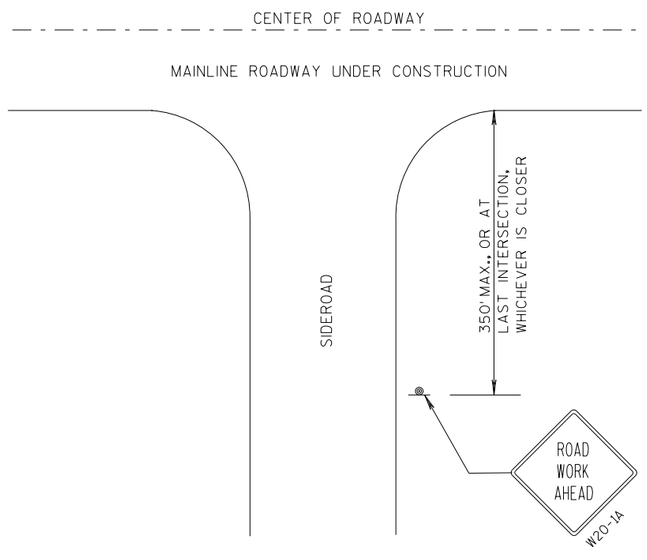
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

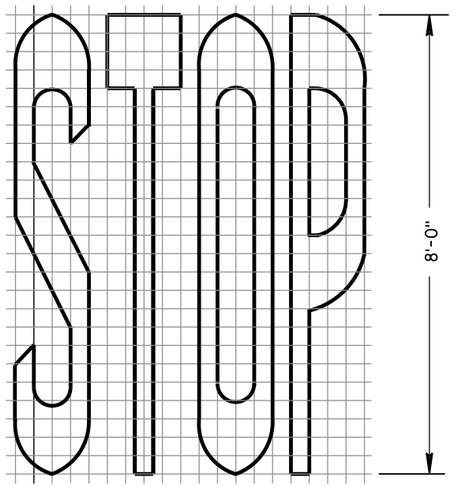
APPROVED
7/2018 — DATE
/S/ Andrew Heldtke — WORK ZONE ENGI
FHWA

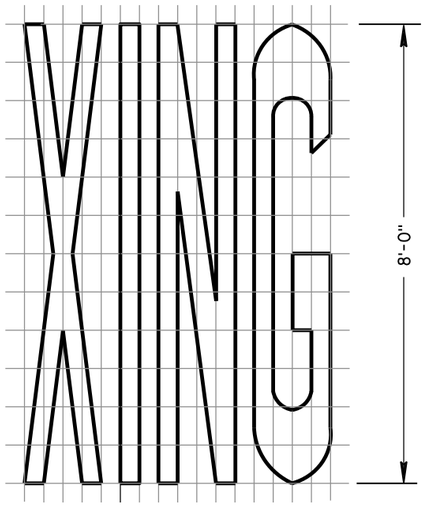
6

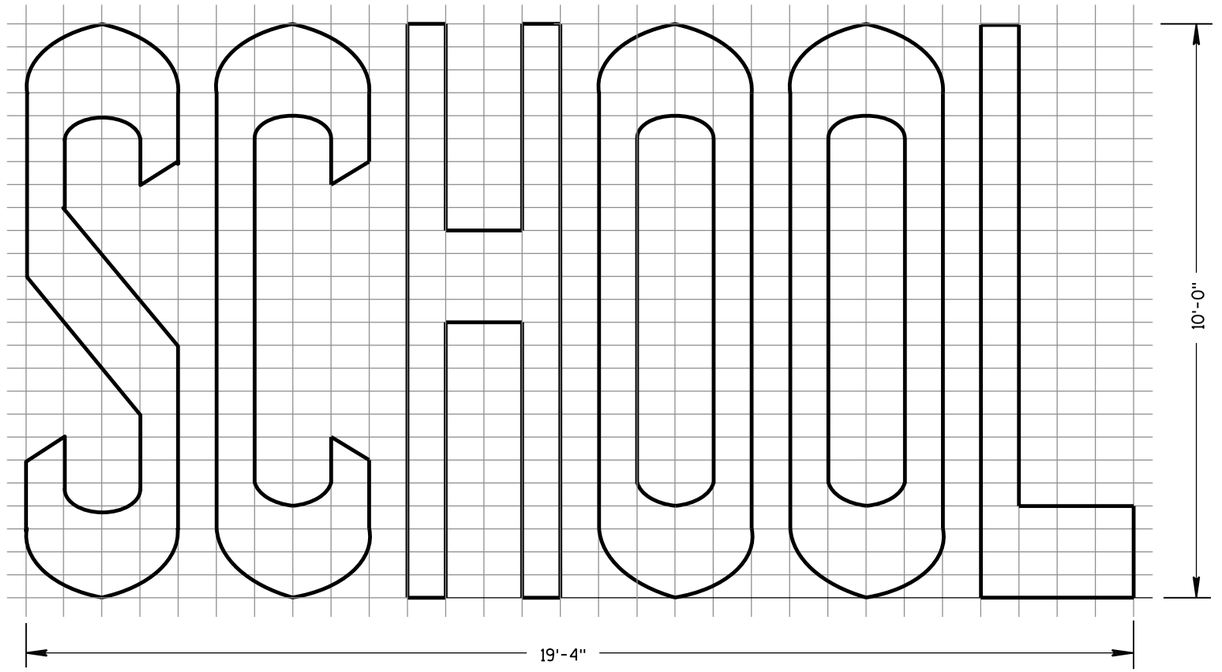
S.D.D. 15 C 5-5

GENERAL NOTES

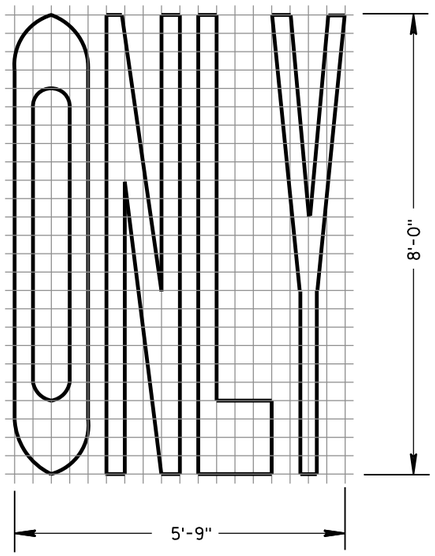
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

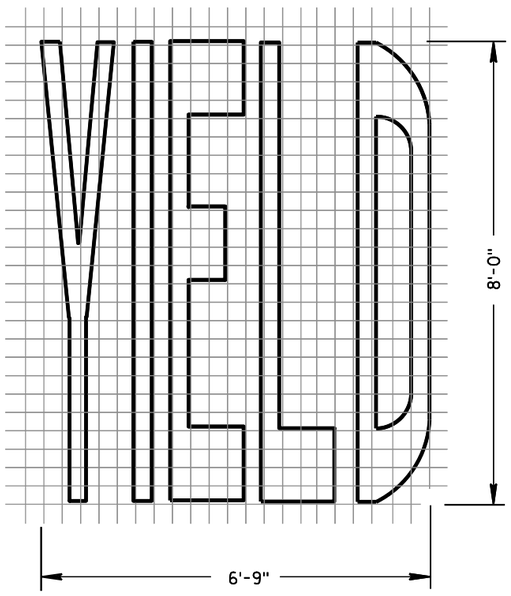


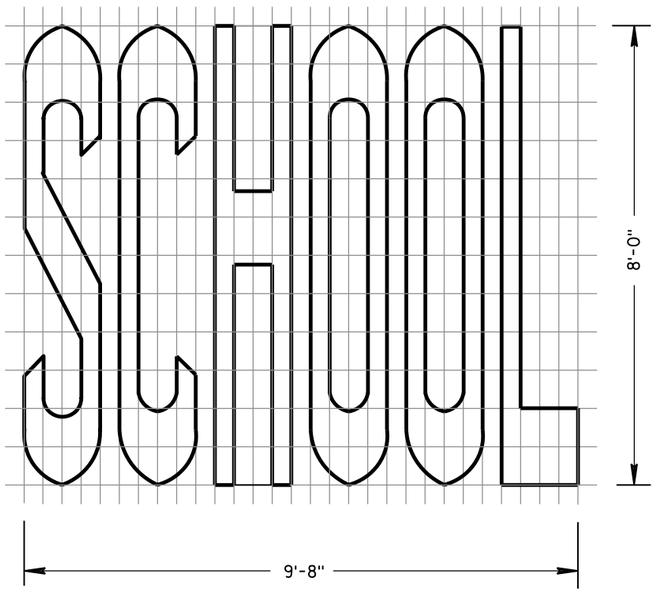




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARK ENGR
FHWA

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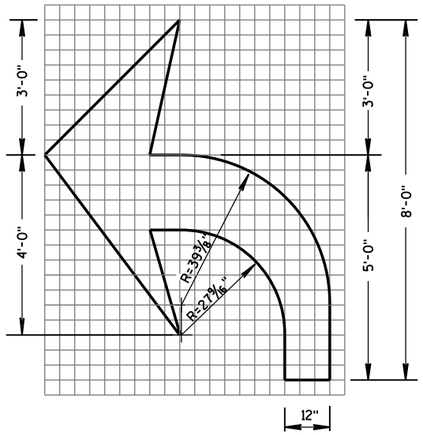
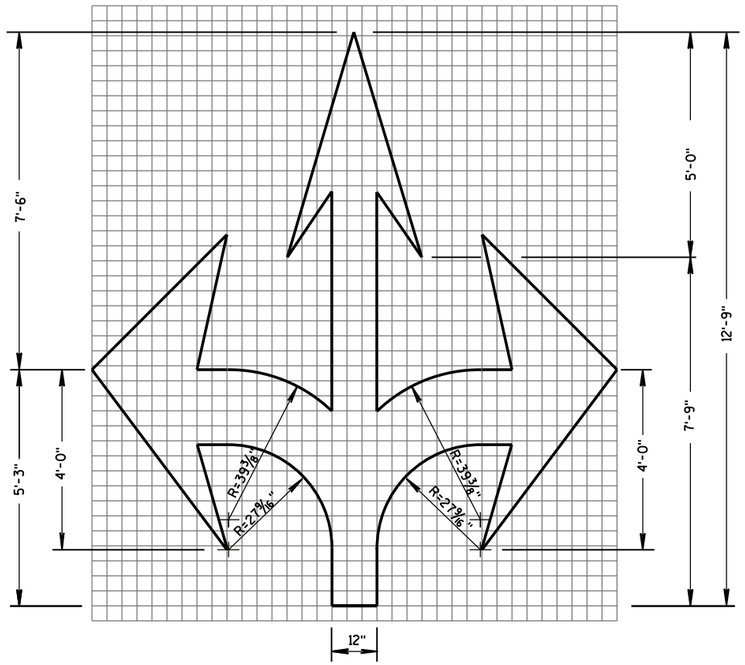
S.D.D. 15 C 7-14b

6

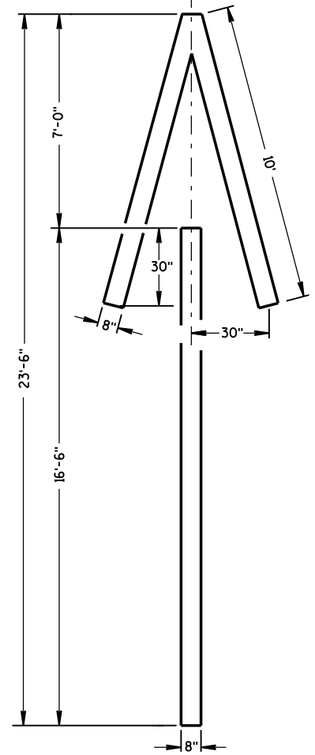
S.D.D. 15 C 7-14b



TYPE 2



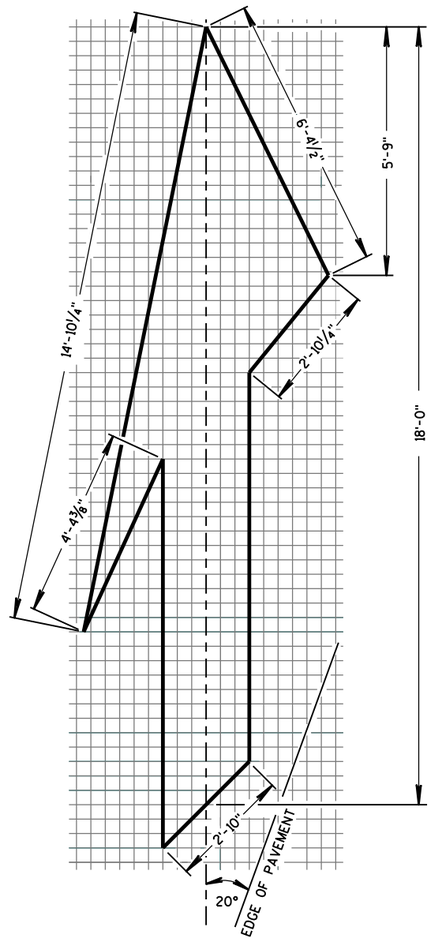
TYPE 6



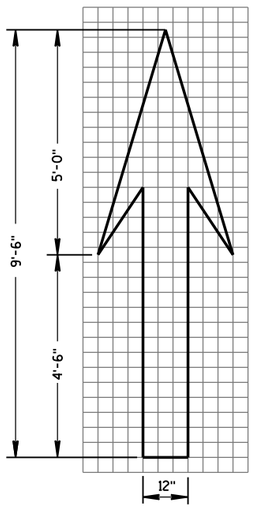
TYPE 4

GENERAL NOTES

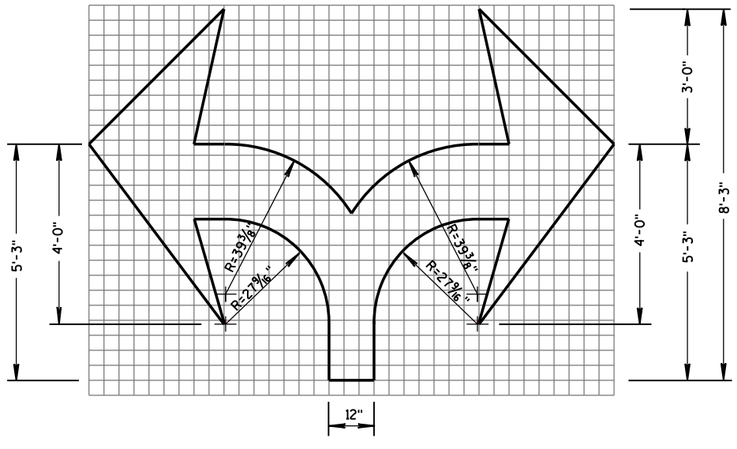
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



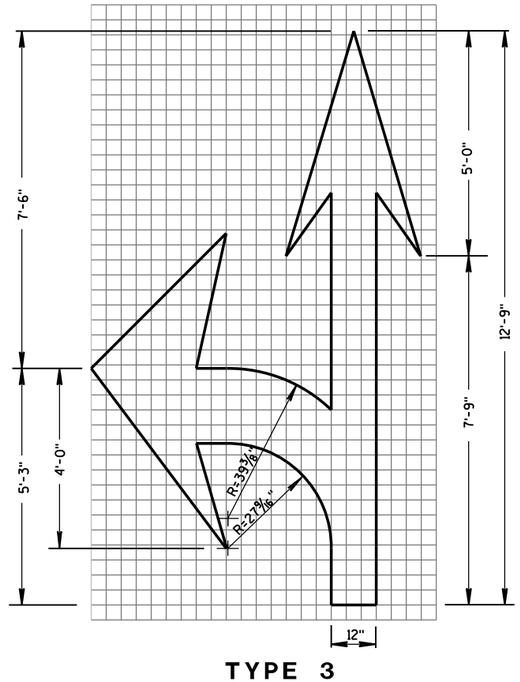
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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June 2017 — DATE
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S.D.D. 15 C 7-14c

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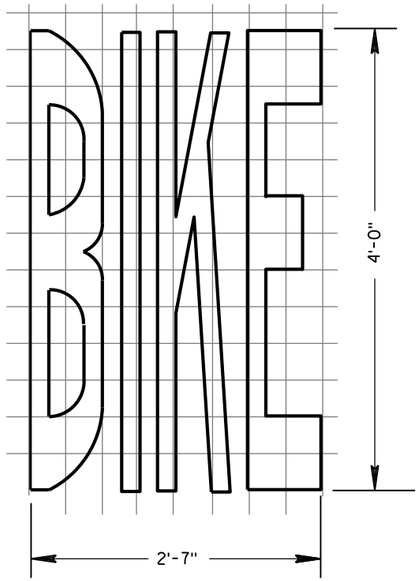
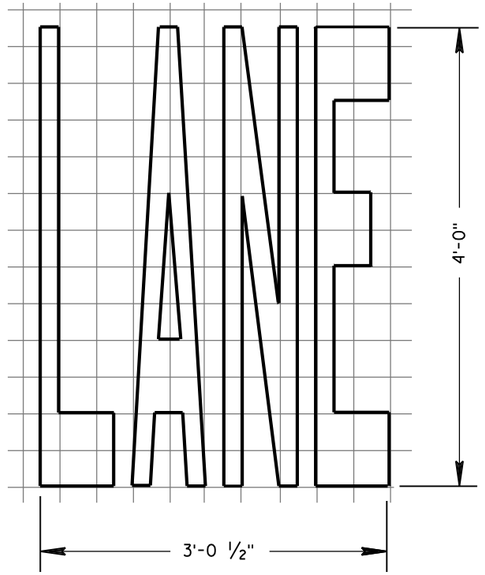
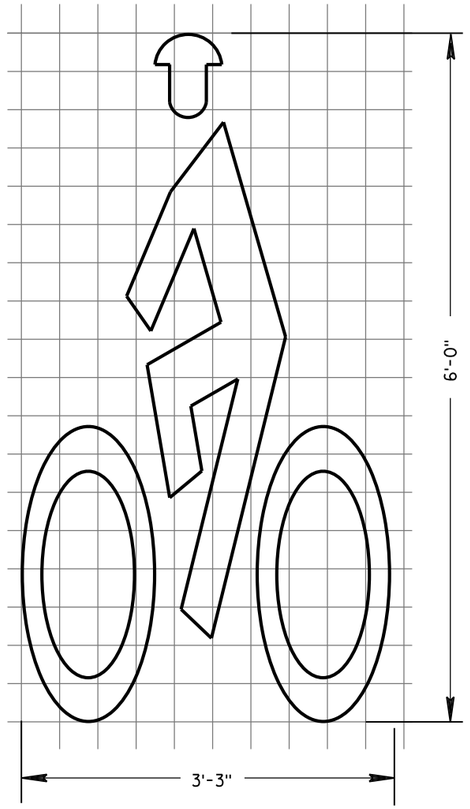
S.D.D. 15 C 7-14c

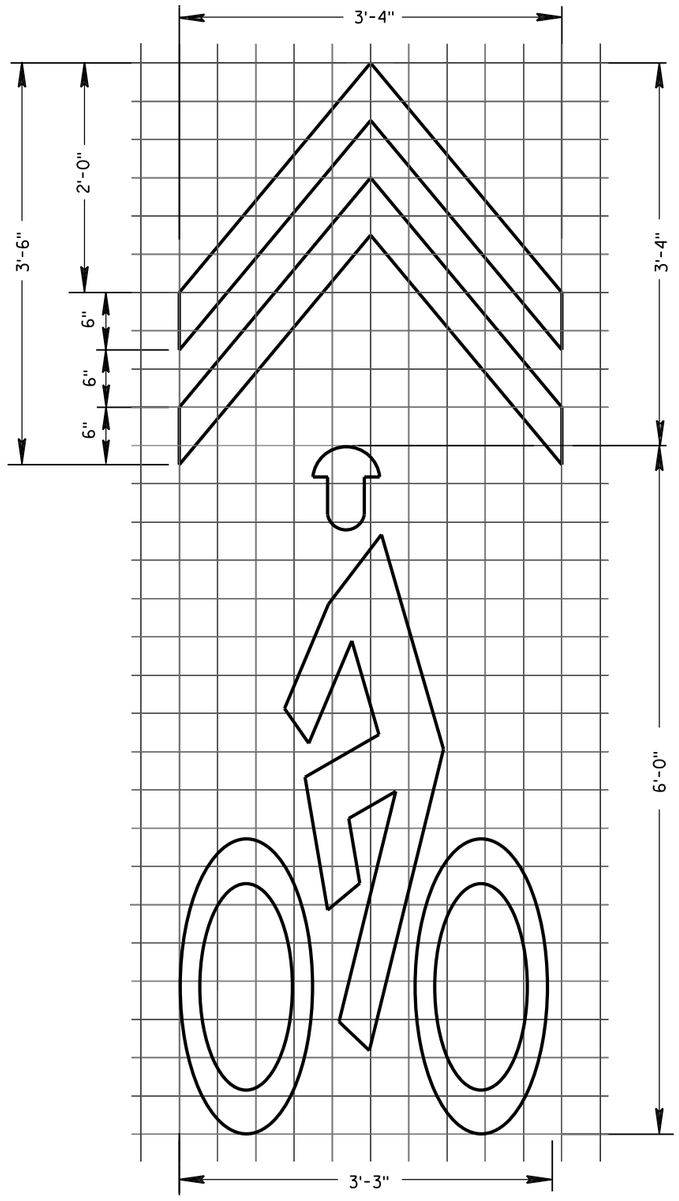




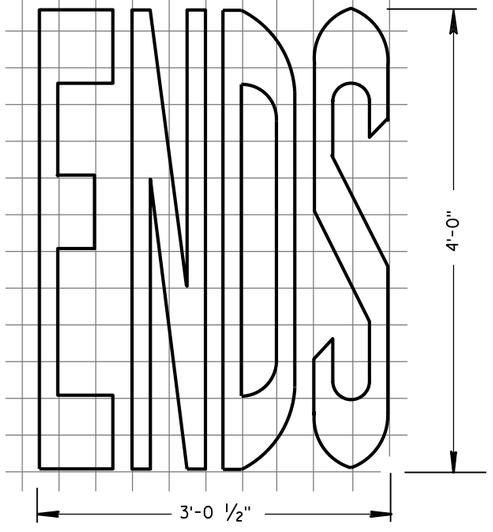
BIKE LANE WORDS



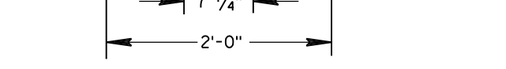
BIKE LANE SYMBOL



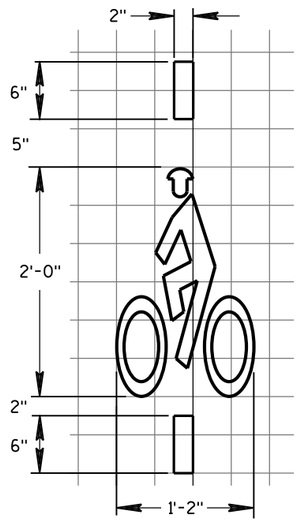
BIKE SYMBOL FOR SHARED LANE



BIKE LANE WORDS



BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING

GENERAL NOTES

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

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
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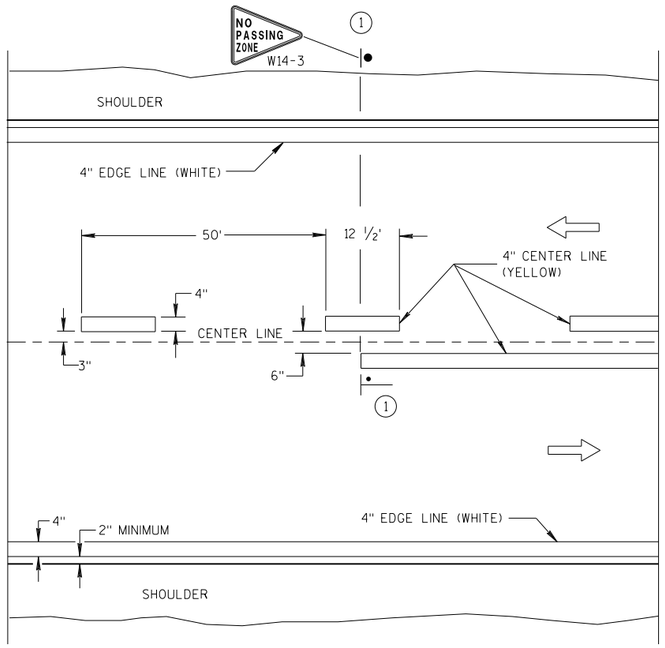
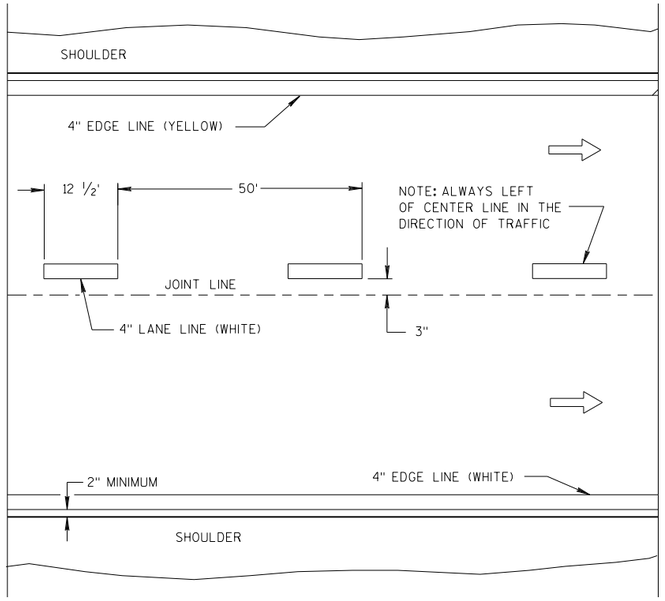
6

S.D.D. 15 C 7-14e



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

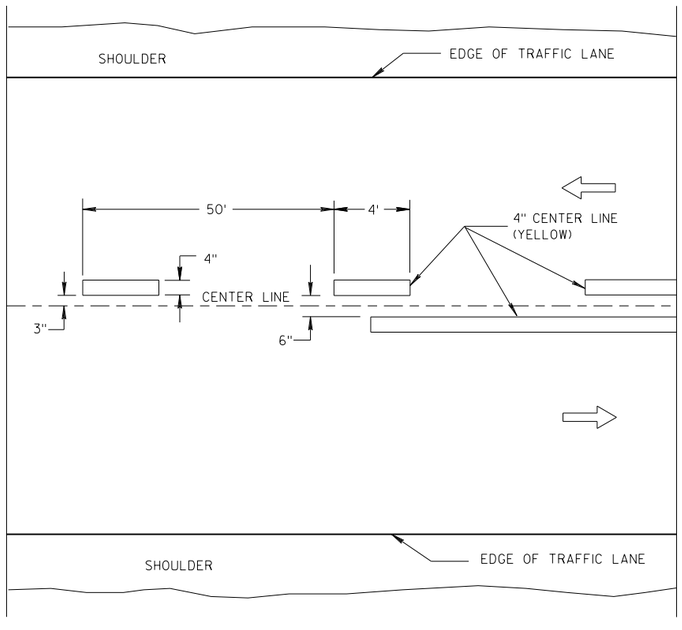
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

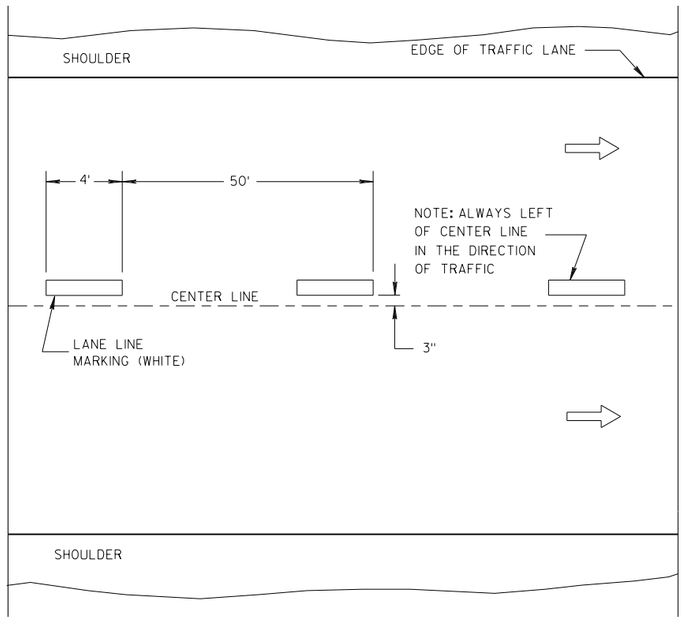
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

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S.D.D. 15 C 8-19a

6

S.D.D. 15 C 8-19a

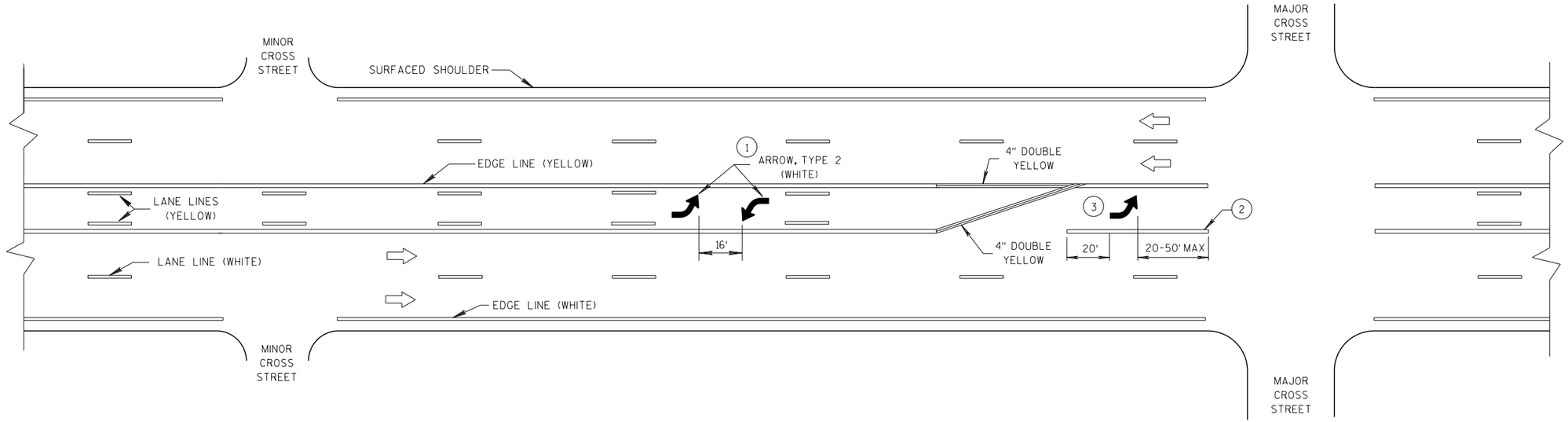
GENERAL NOTES

(1) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(2) 8" WHITE

(3) TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT

DIRECTION OF TRAFFIC



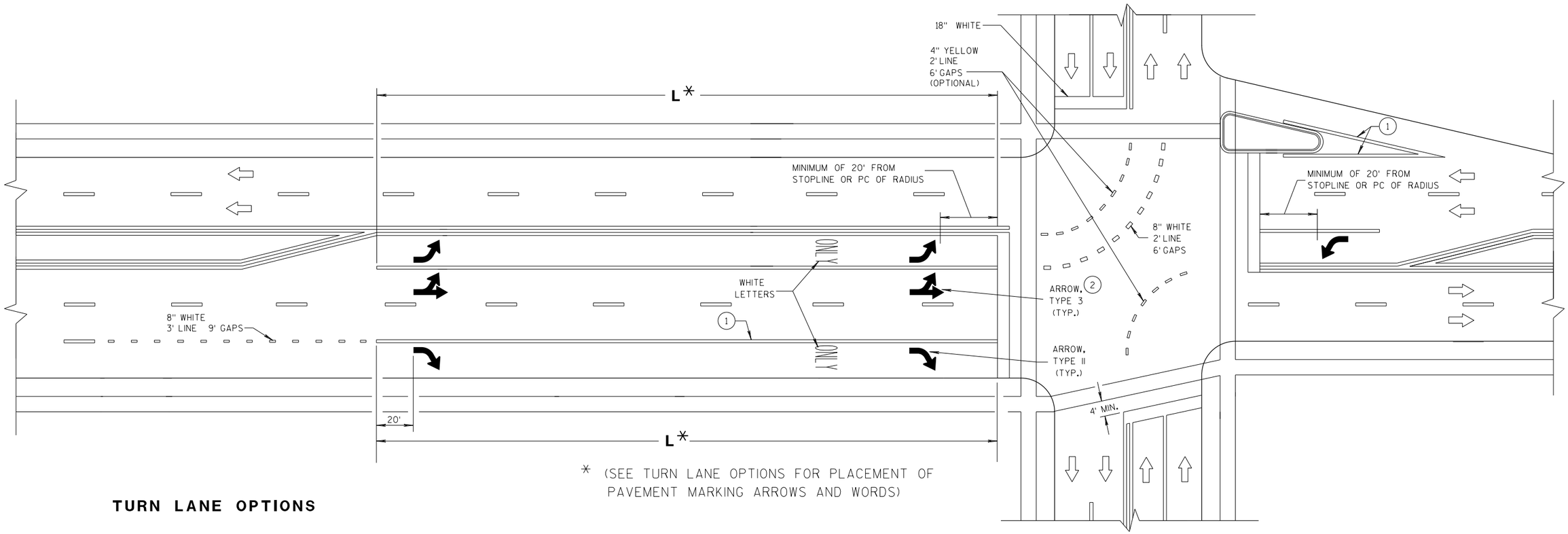
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

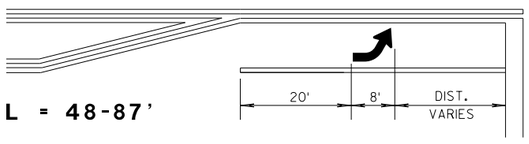
S.D.D. 15 C 8-19b



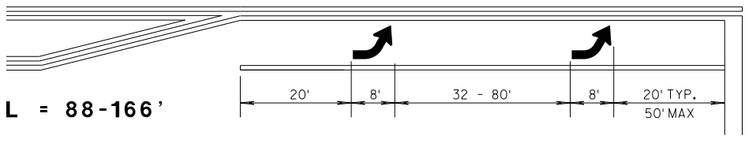
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

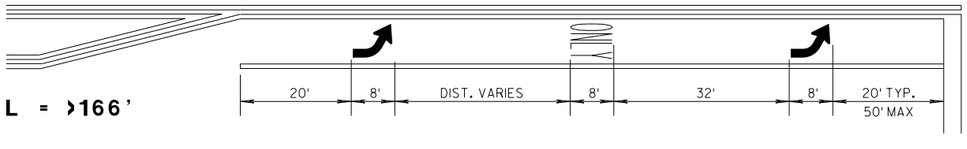
LENGTH OF TURN BAY (**L**) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48-87'



L = 88-166'



L = >166'

GENERAL NOTES

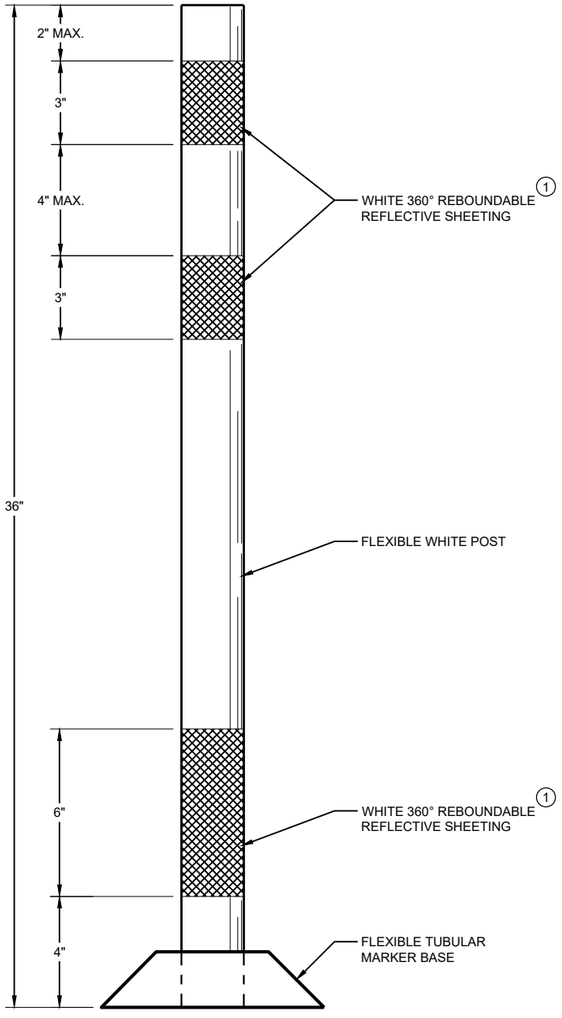
(1) 8" WHITE

(2) QUANTITY AND LOCATION OF TYPE 3 ARROW ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION, THE ARROWS AND ONLY MARKING ARE ELIMINATED.

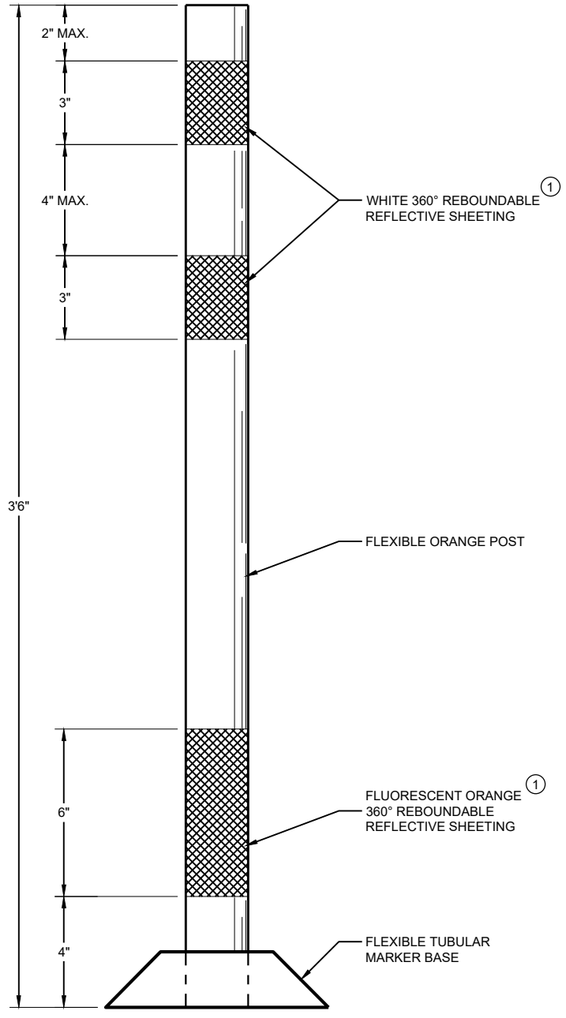
⇨ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)



FLEXIBLE TUBULAR MARKER POST PERMANENT CROSSOVER



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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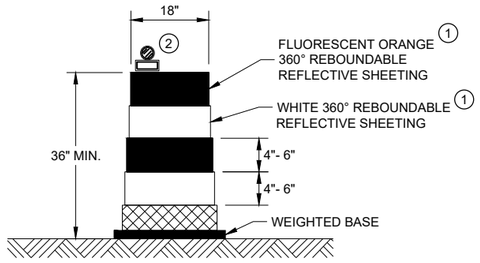
SDD 15C11 - 07a

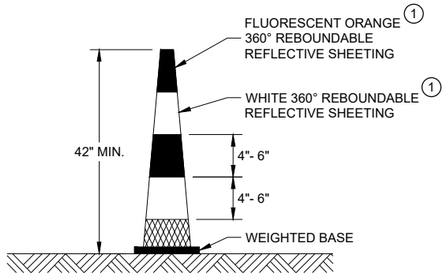
SDD 15C11 - 07a

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

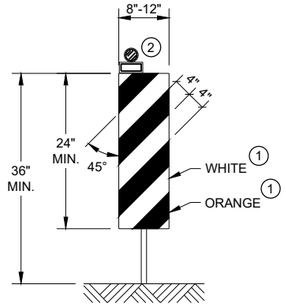


DRUM



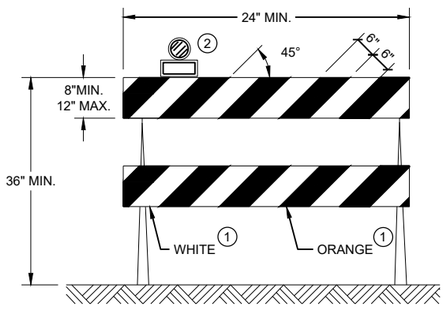
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



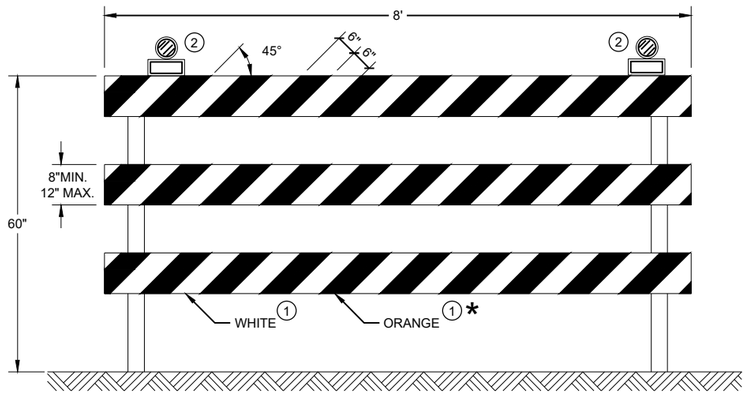
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

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SDD 15C11 - 07b

LEGEND

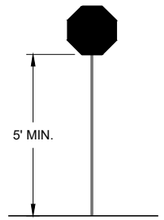
SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

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



STOP/SLOW PADDLE ON SUPPORT STAFF

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.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND 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.

FLAGGING

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 REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' 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.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

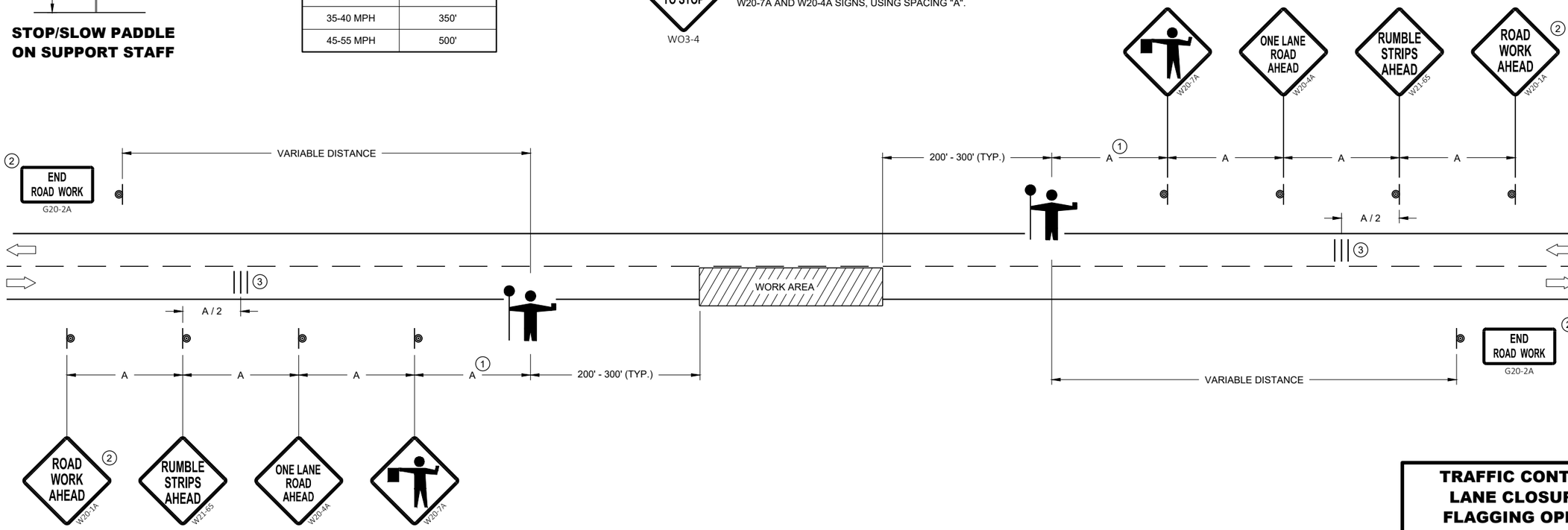
DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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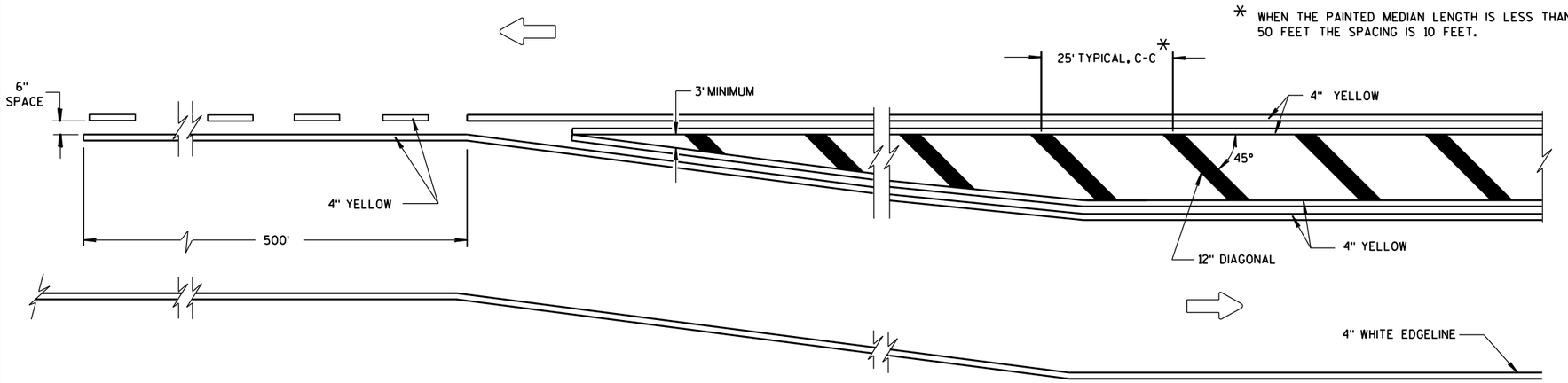
SDD 15C12 - 07

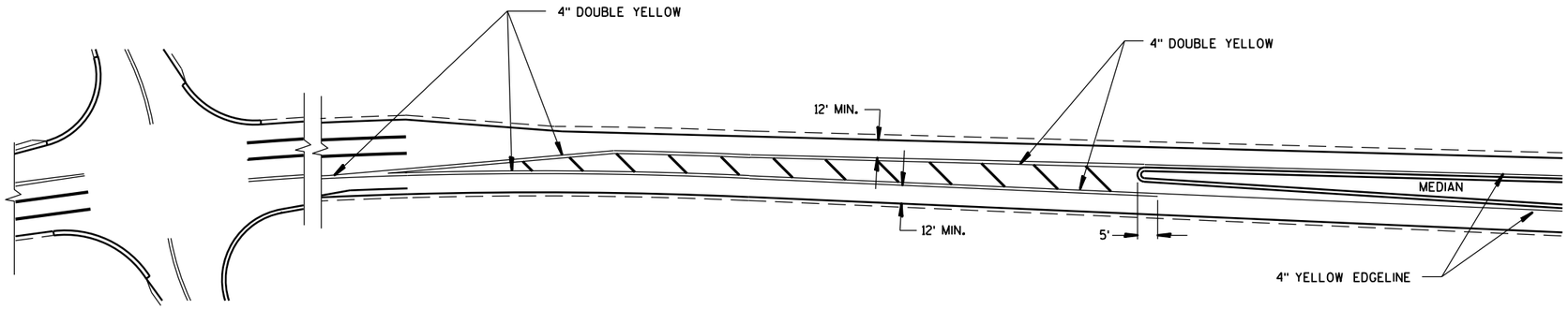


MEDIAN ISLAND DETAIL

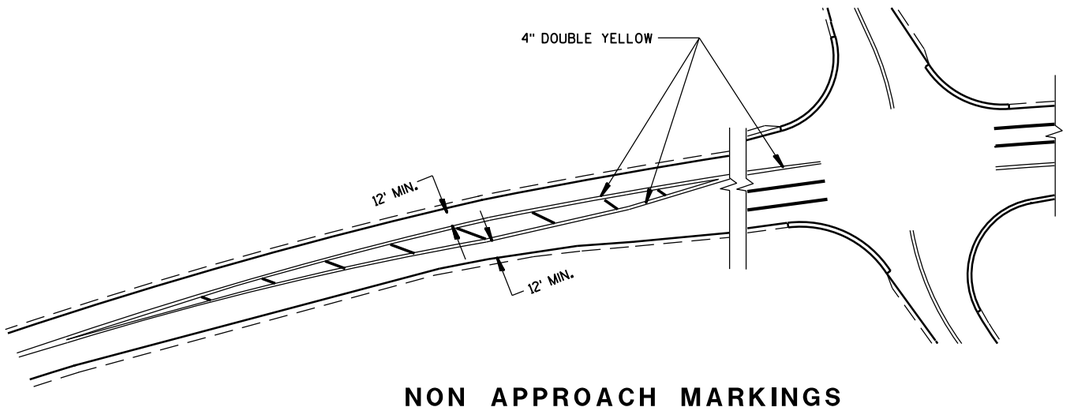
GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Matthew Rauch STATE SIGNING AND MARK 255 EER
FHWA	

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S.D.D. 15 C 18-4

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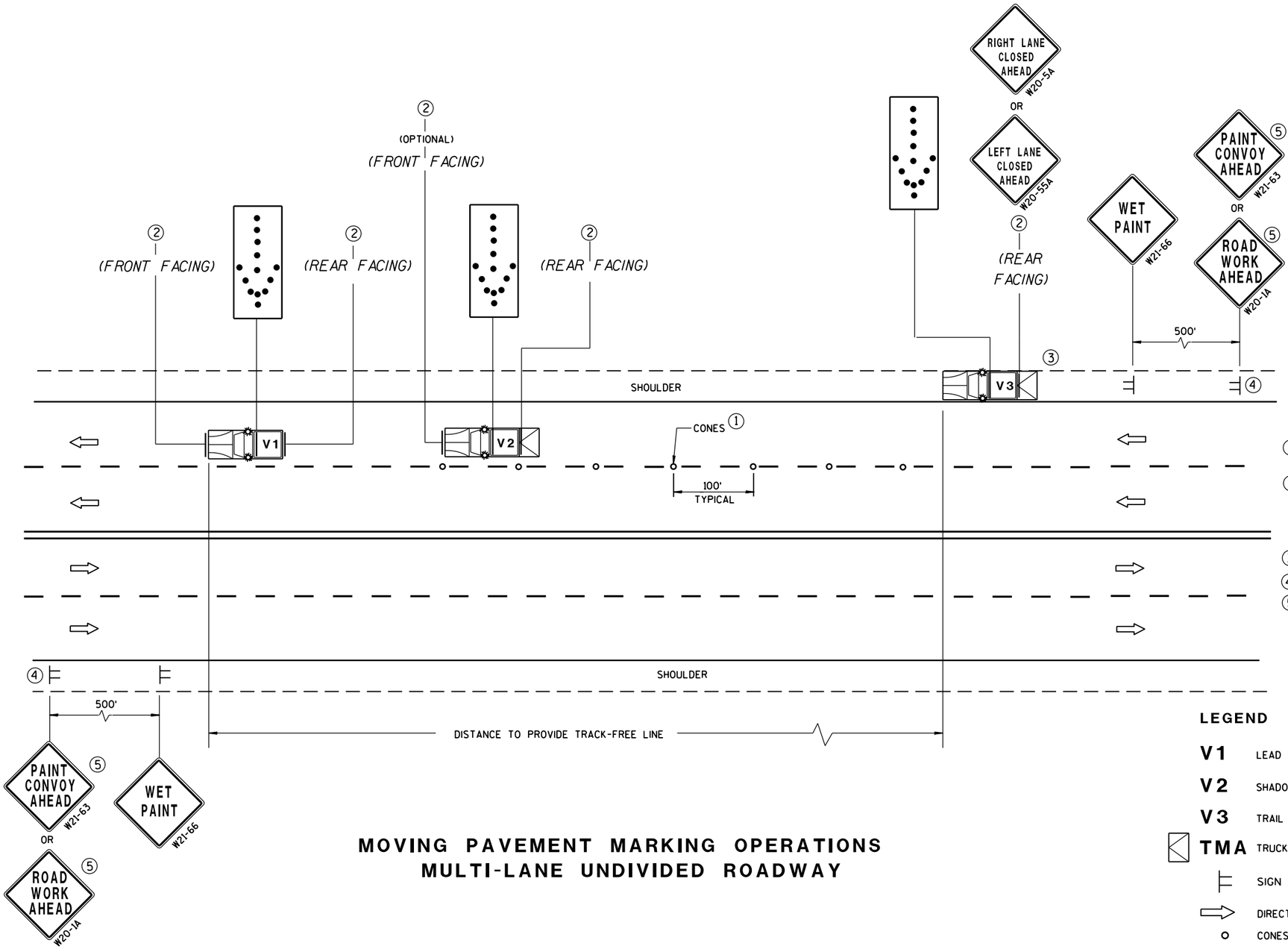
S.D.D. 15 C 18-4



GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE OR LANELINE MARKING FOR MULTILANE UNDIVIDED ROADWAYS.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE UNDIVIDED ROADWAY

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (MERGE)

MOVING PAVEMENT MARKING OPERATION
MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENGIN
FHWA

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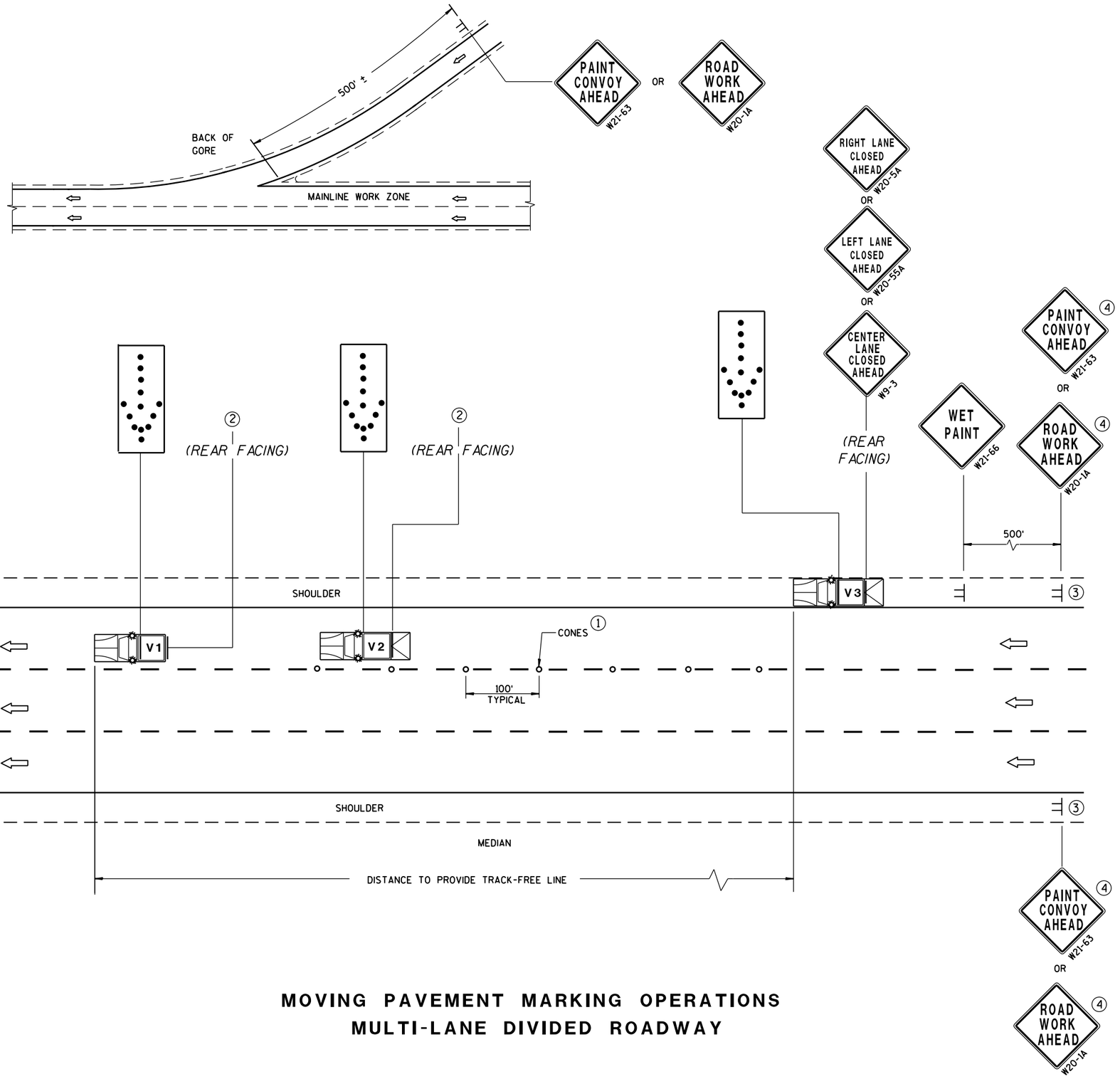
S.D.D. 15 C 19-5b



MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE DIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR EDGELINE OR LANELINE MARKING FOR MULTILANE DIVIDED ROADWAYS.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.

(4) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (MERGE)

MOVING PAVEMENT MARKING OPERATION
MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENGR
FHWA

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S.D.D. 15 C 19-5c

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S.D.D. 15 C 19-5c

GENERAL NOTES

SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

(1) USED ONLY WHEN APPROVED BY REGION TRAFFIC ENGINEER.

SYMBOLS

* SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT

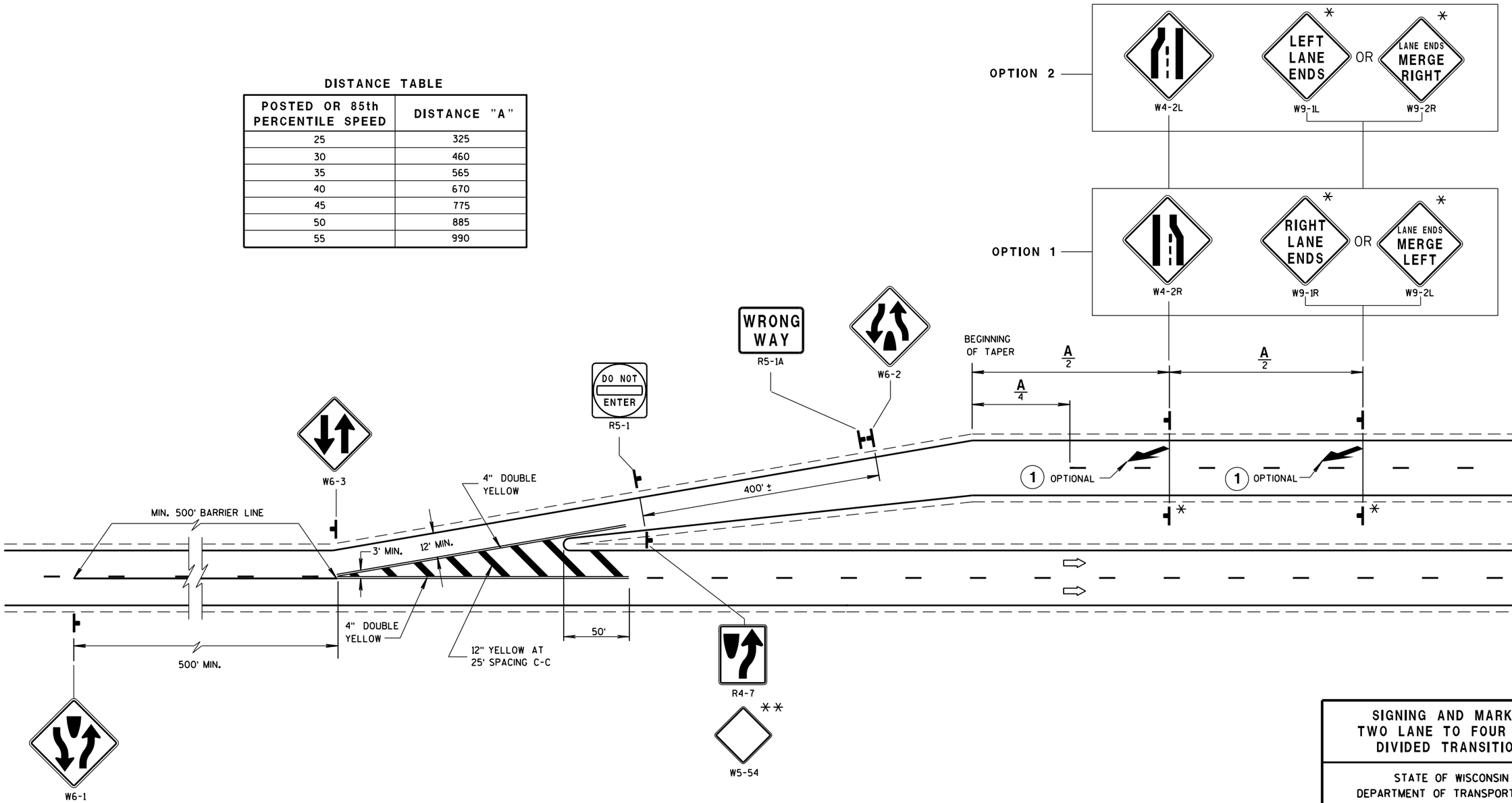
** IF POSTED SPEED 45 MPH OR GREATER, PLACE W5-54 SIGN UNDER R4-7 SIGN. MOUNT W5-54 SIGN AT 4' MOUNTING HEIGHT (TOP OF ROADWAY TO BOTTOM OF SIGN)

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	325
30	460
35	565
40	670
45	775
50	885
55	990



SIGNING AND MARKING
TWO LANE TO FOUR LANE
DIVIDED TRANSITIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

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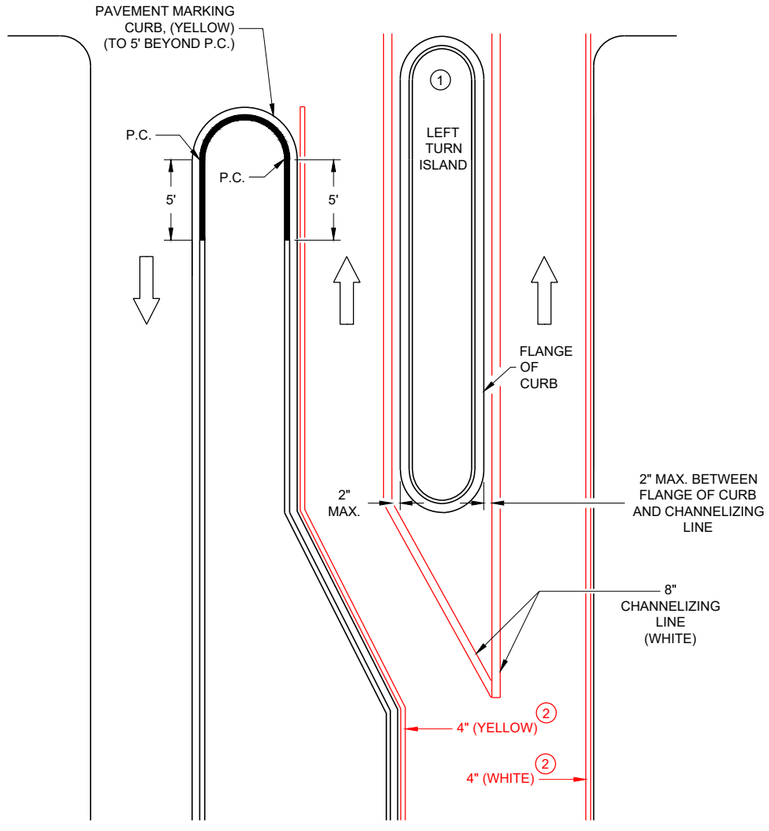
S.D.D. 15 C 21-8

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



LEFT TURN & MEDIAN ISLAND

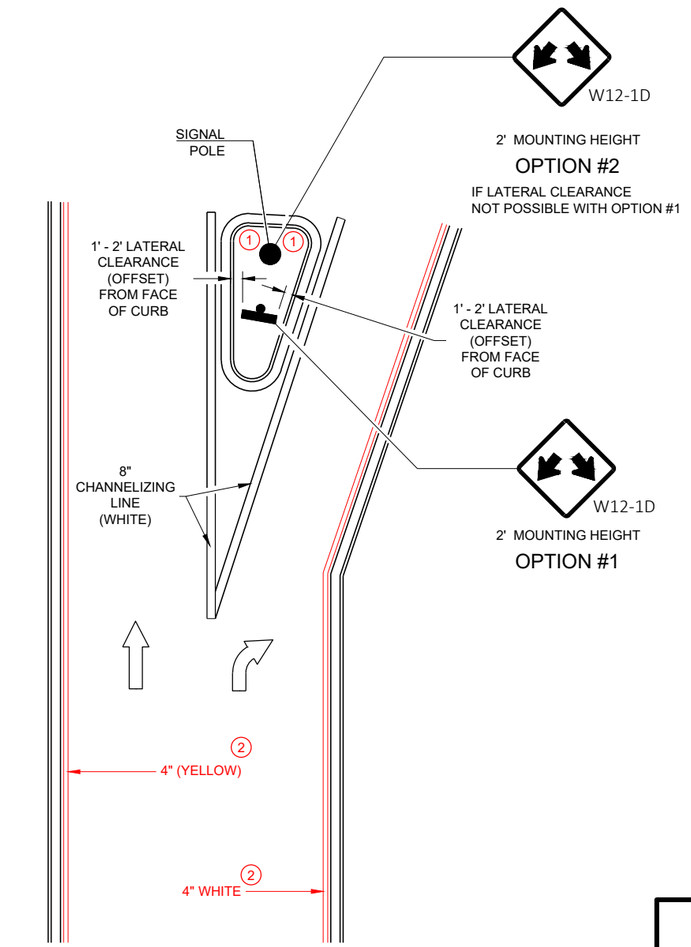
GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

1. MARK CURB NOSES YELLOW.
2. MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

DOUBLE ARROW
WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

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SDD 15C27 - 03a

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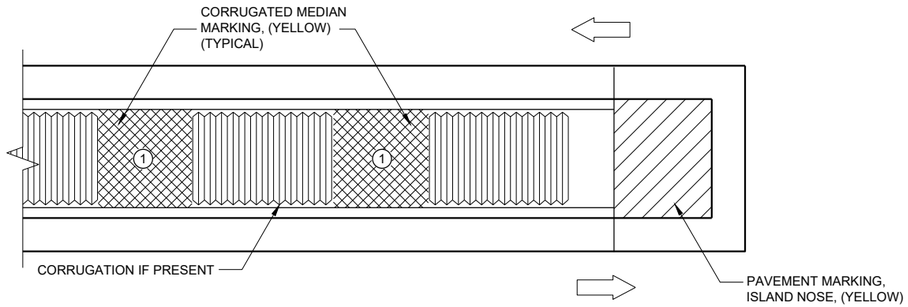
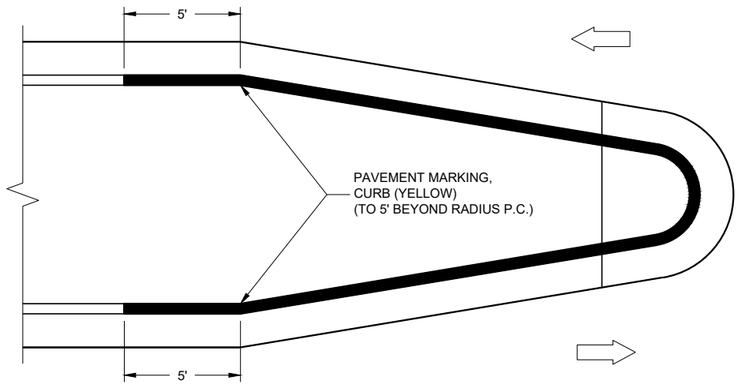
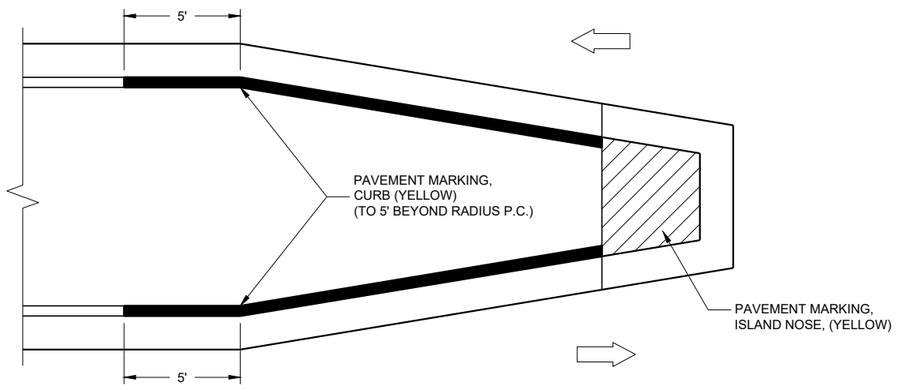
SDD 15C27 - 03a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

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

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS (ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR ENGINEER

FHWA

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SDD 15C27 - 03b

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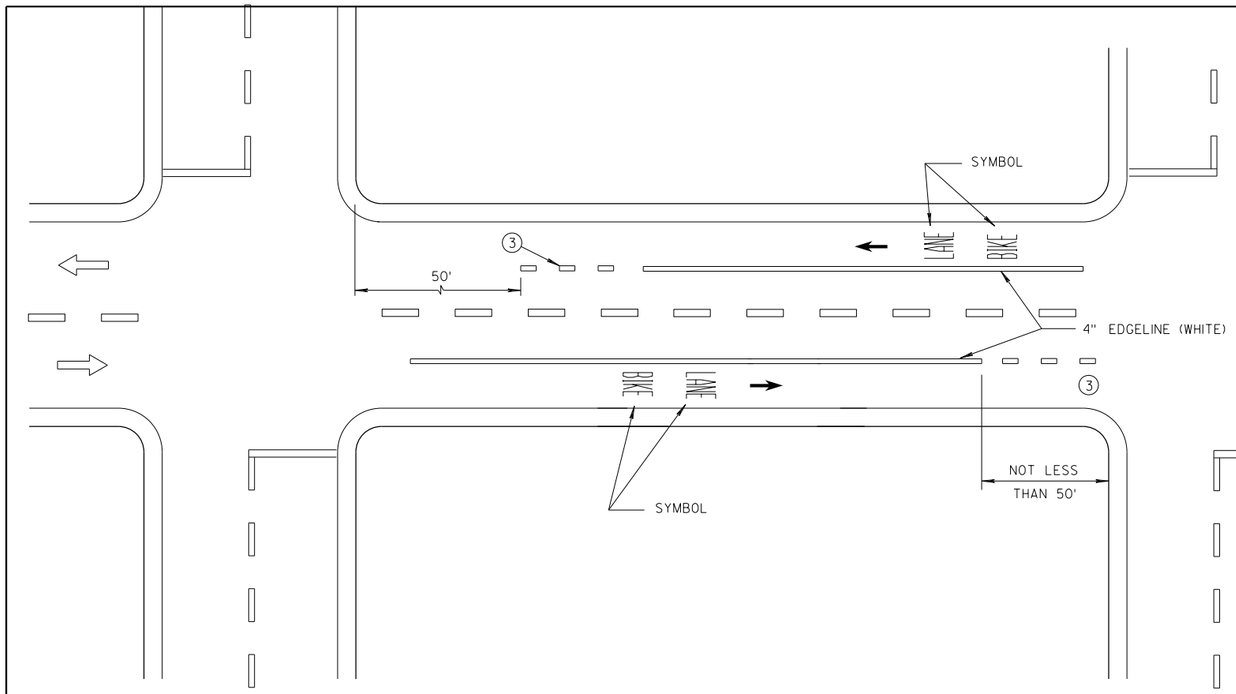
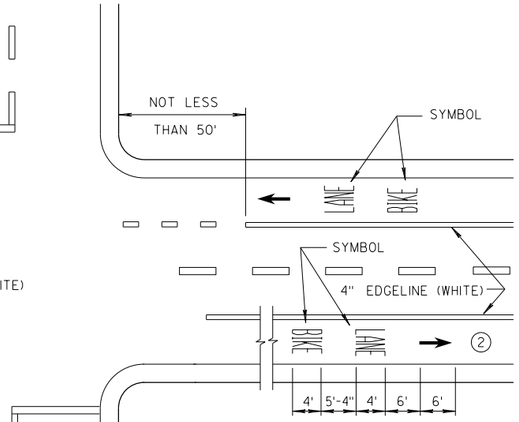
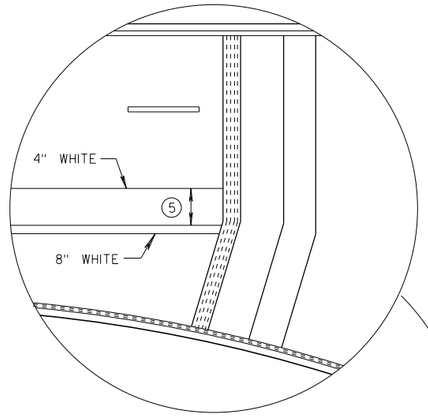
SDD 15C27 - 03b

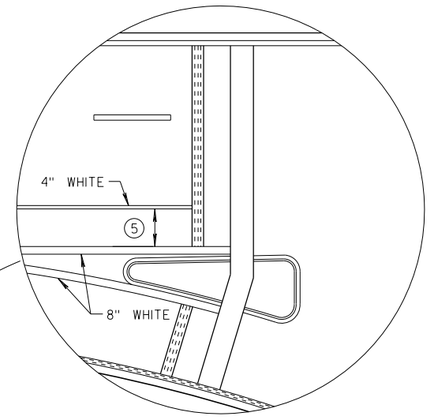




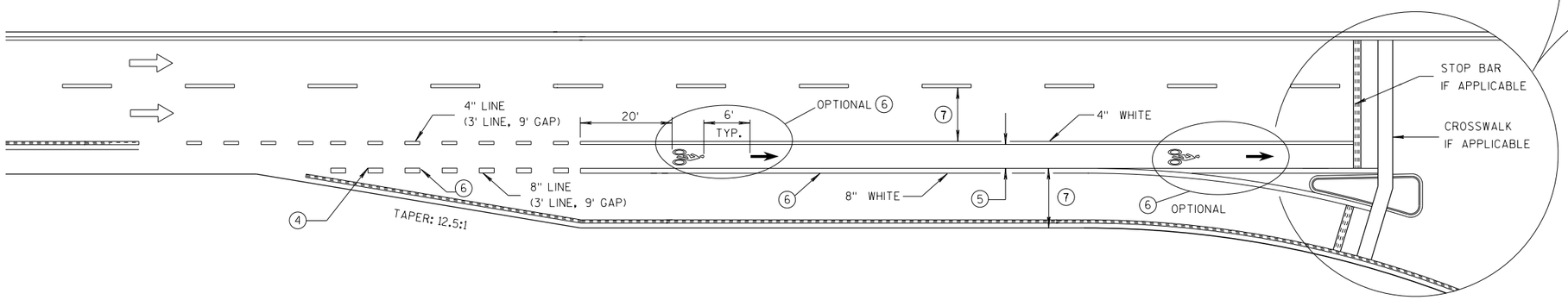
DESIGNATED BICYCLE LANE
NO PARKING



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. BIKE ACCOMODATION IS TYPICALLY 5 FEET WIDE AND A MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FEET WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

DIRECTION OF TRAVEL

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR 261 NEER

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S.D.D. 15 C 29-6a

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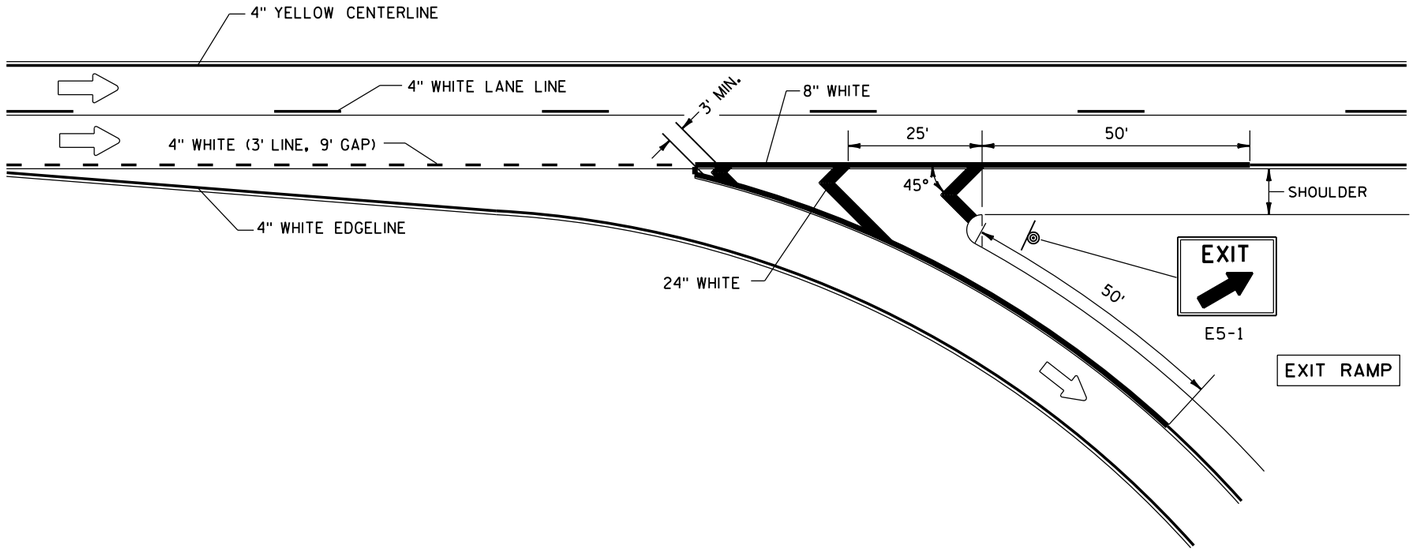
S.D.D. 15 C 29-6a



PAVEMENT MARKING FOR EXIT RAMP

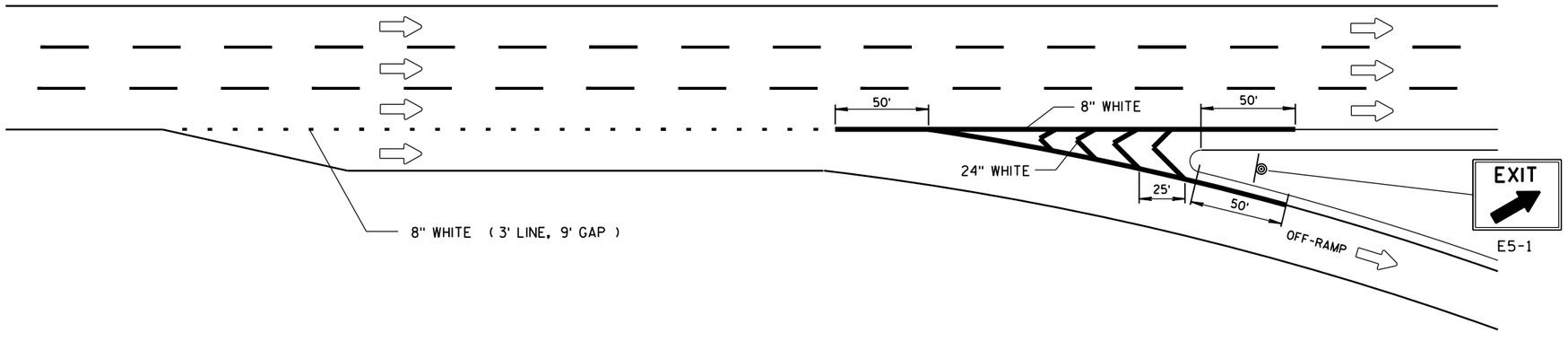
GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

DIRECTION OF TRAVEL

SIGN ON PERMANENT SUPPORT



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT-RAMP

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S.D.D. 15 C 31-3a

PAVEMENT MARKING (RAMPS AND GORES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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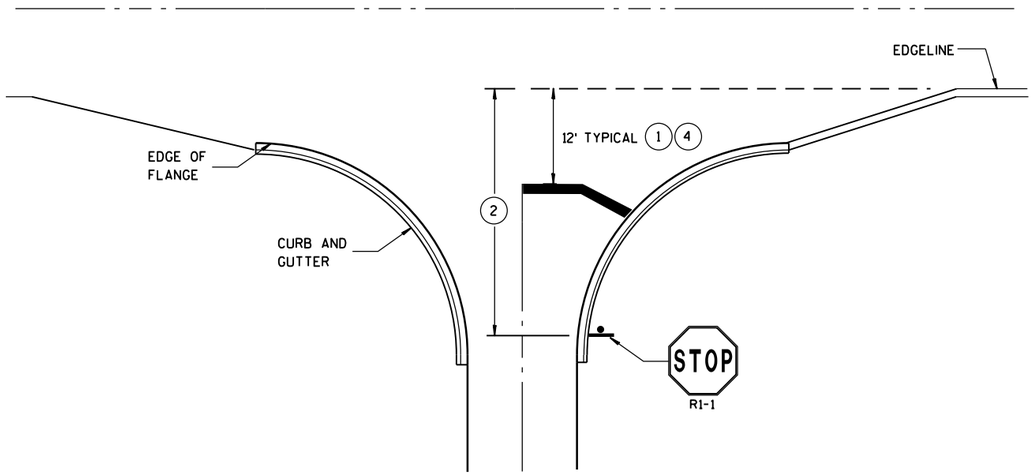
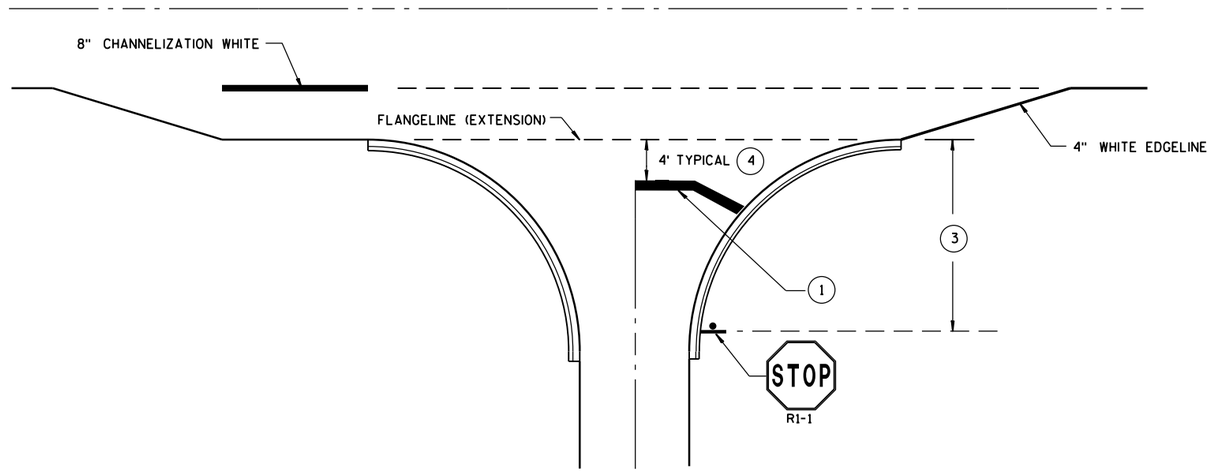
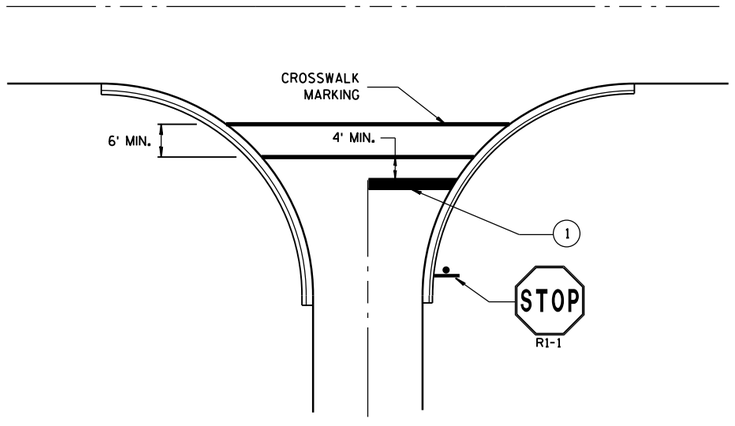


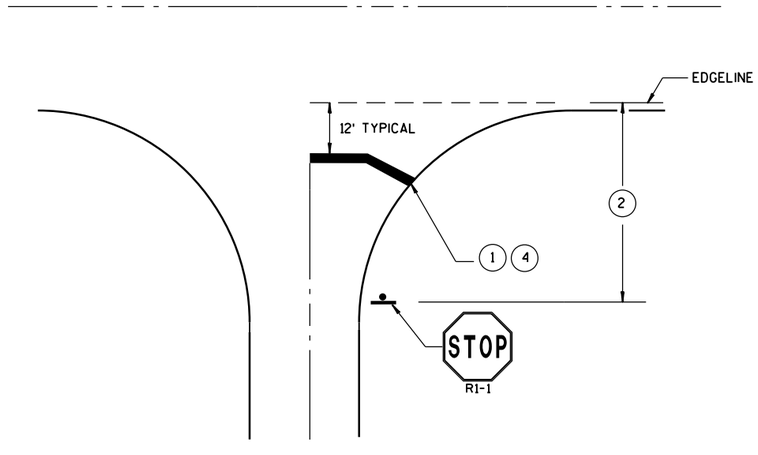
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR ENGINEER

FHWA

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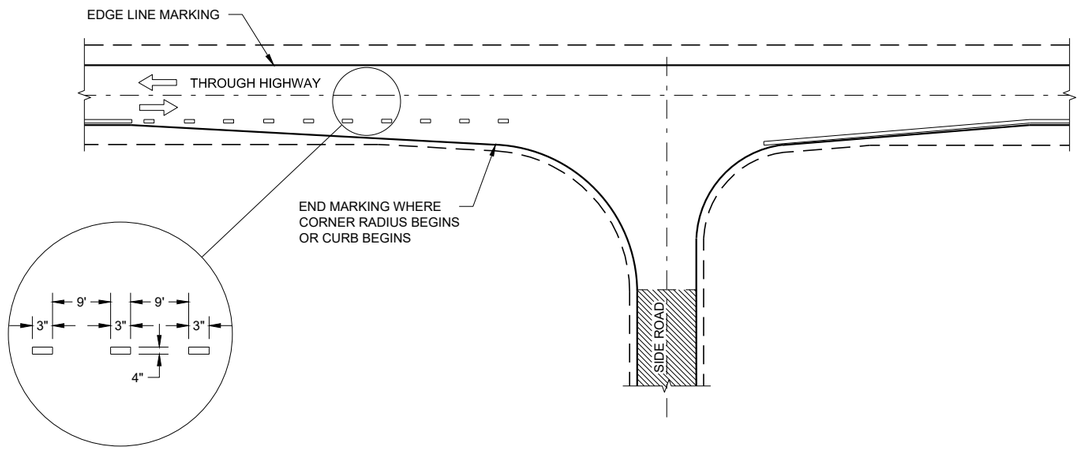
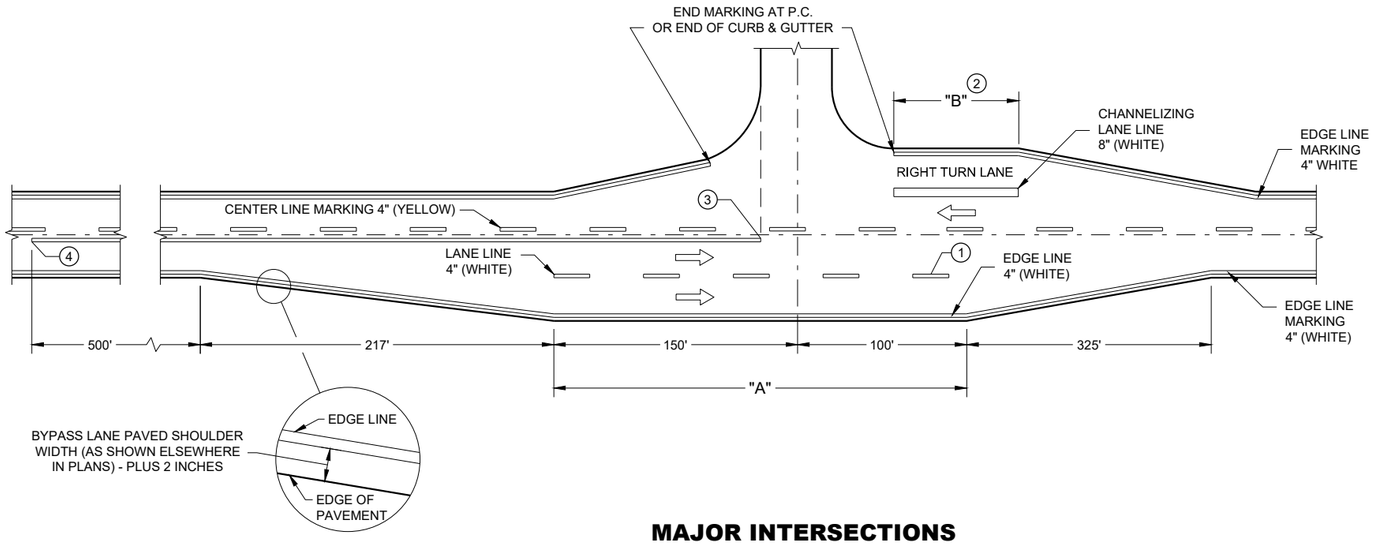
S.D.D. 15 C 33-3



MINOR INTERSECTION



MAJOR INTERSECTIONS

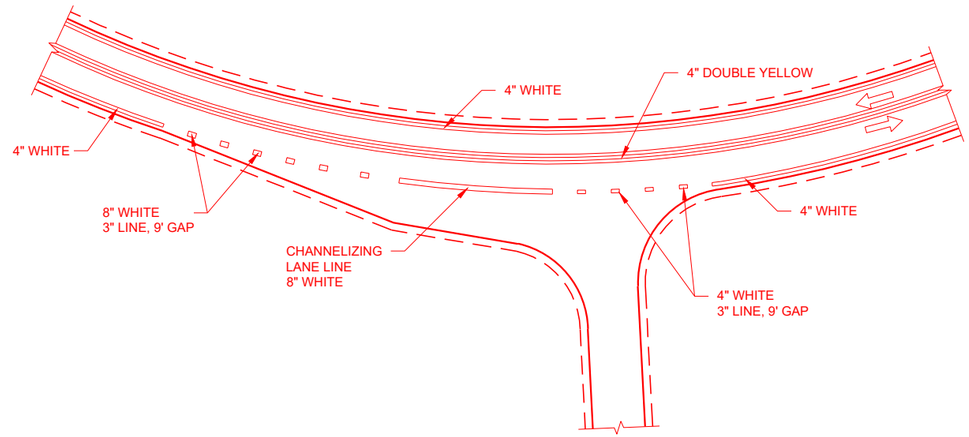
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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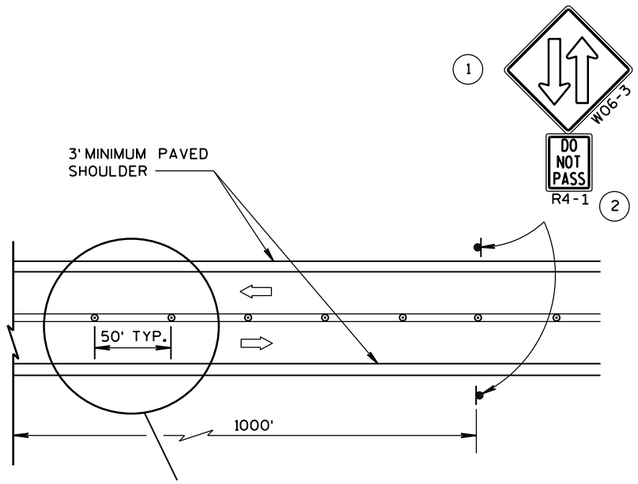
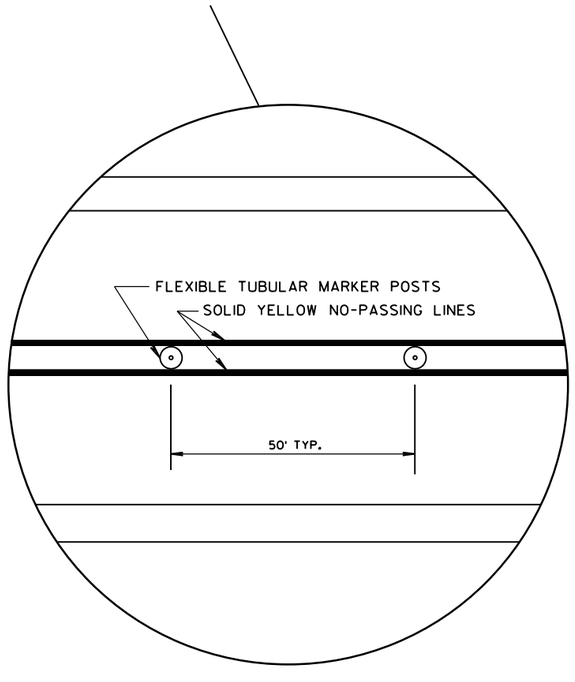


TWO LANE, TWO WAY OPERATION



LEGEND

- SIGN ON PERMANENT SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"x48" UNLESS OTHERS NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50-FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW.

THE W06-3 WITH THE W057-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND/OR 500 FEET BEYOND ANY SIDEROAD. THE W06-3 WITH THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE W06-3 AND THE W057-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN W06-3 SIGNS.

(2) CONVENTIONAL: 24"x30"
FREEWAY AND EXPRESSWAY: 36"x48"

TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION

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 D 6-3

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

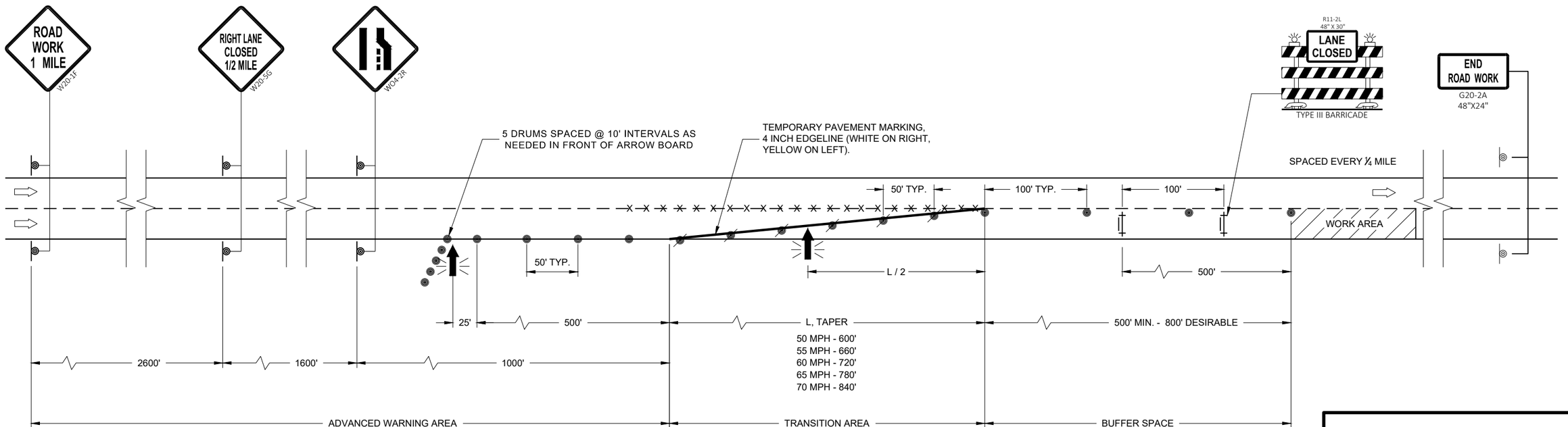
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15D12 - 07a

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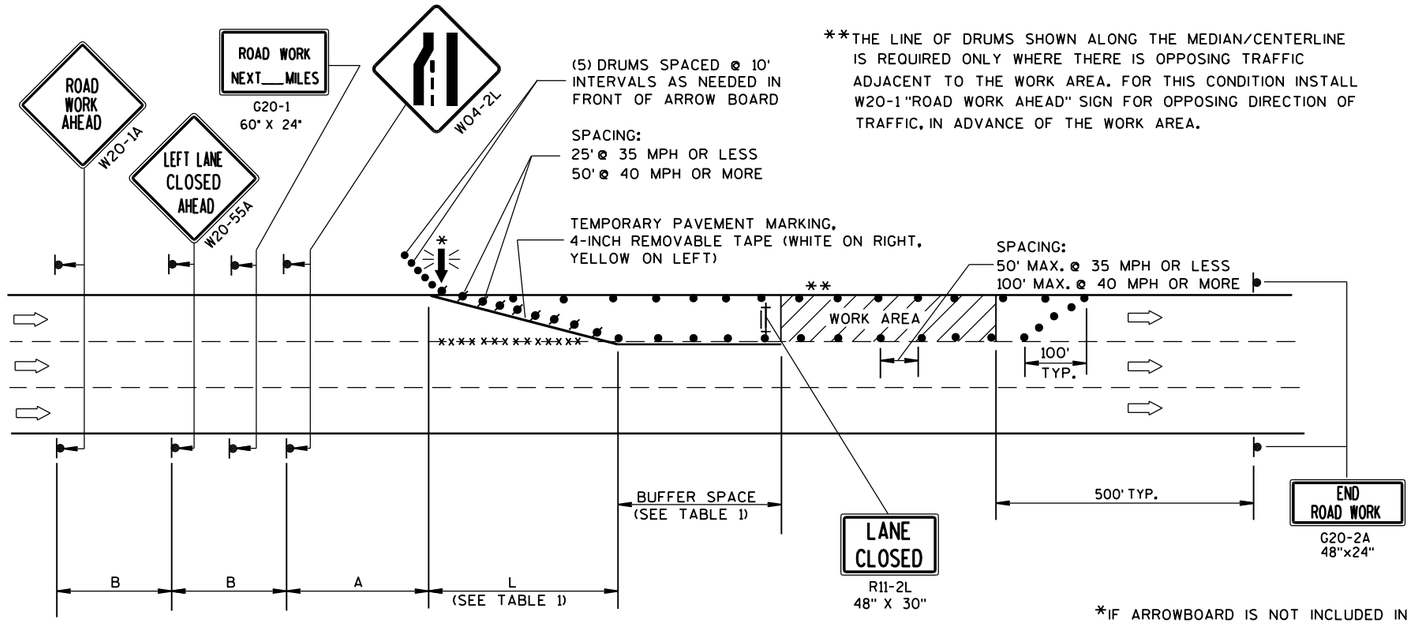
SDD 15D12 - 07a



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

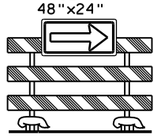


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

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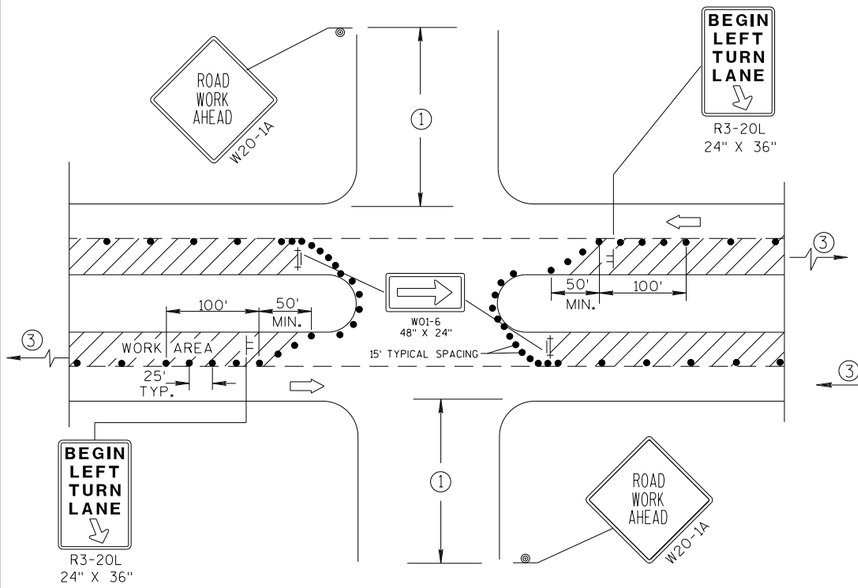
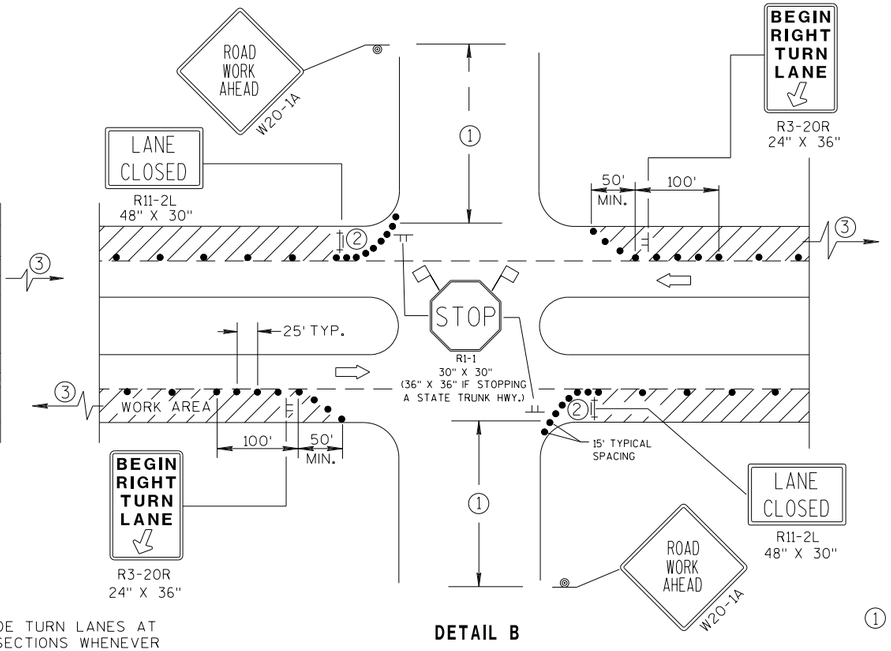


DETAIL A

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

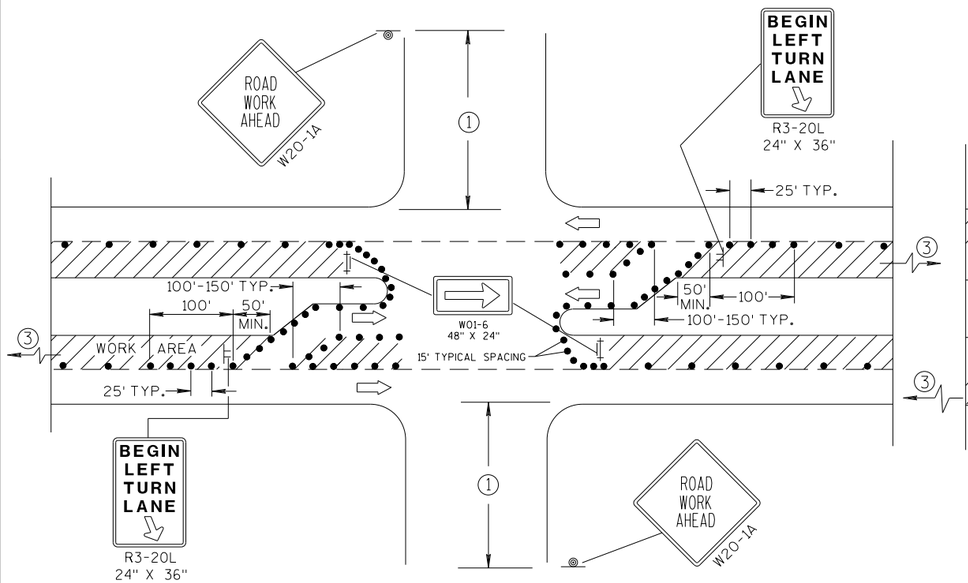
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

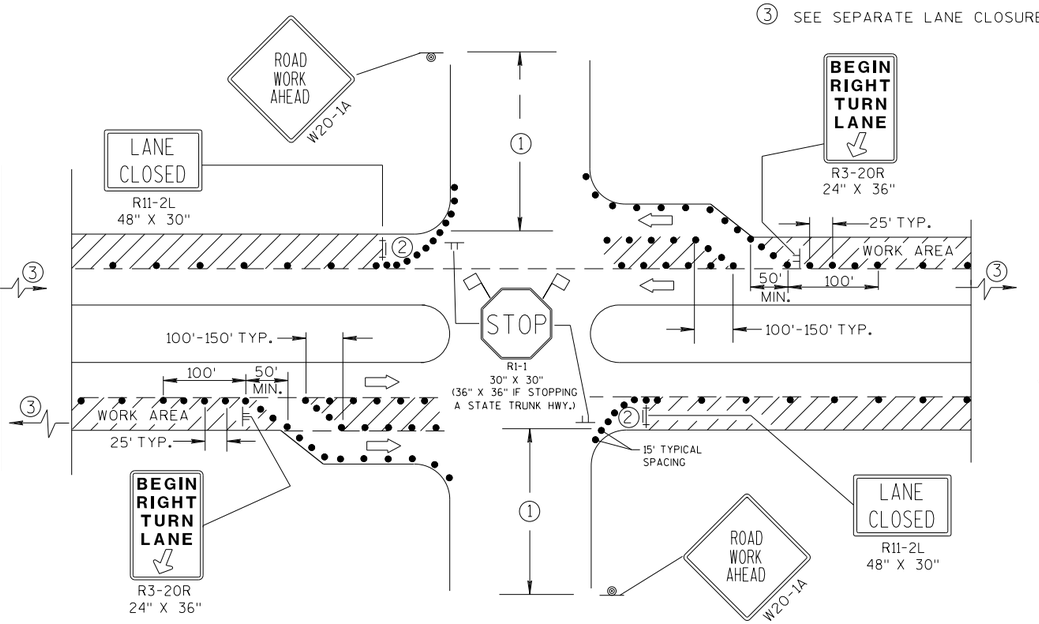
(2) ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., (ORANGE)
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

FHWA

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LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

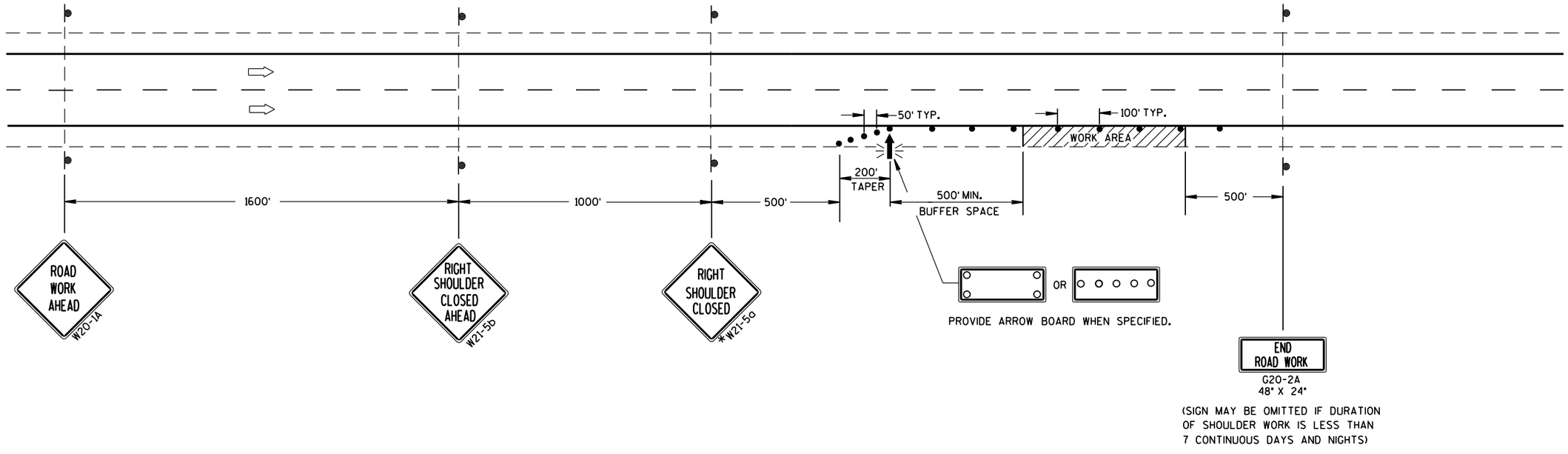
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

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S.D.D. 15 D 27-3

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK ZONE

TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
W / S	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

W = SHOULDER WIDTH (FEET
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L= WS AT 45 MPH OR GREATER
L = WS² / 60 AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = 1/3L

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

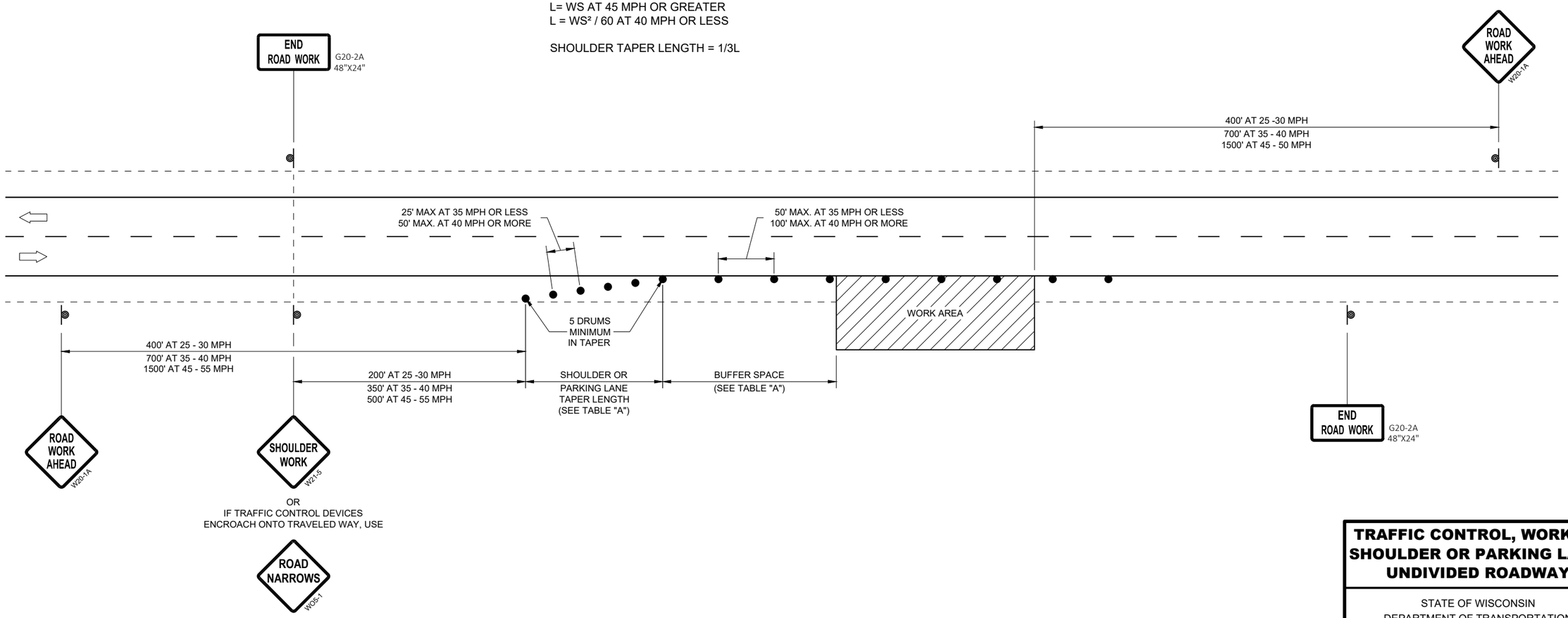
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY RESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2019
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

6
SDD 15D28 - 03

LEGEND

SIGN ON TEMPORARY SUPPORT

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TYPE "A" WARNING LIGHT (FLASHING)

DIRECTION OF TRAFFIC

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

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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

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

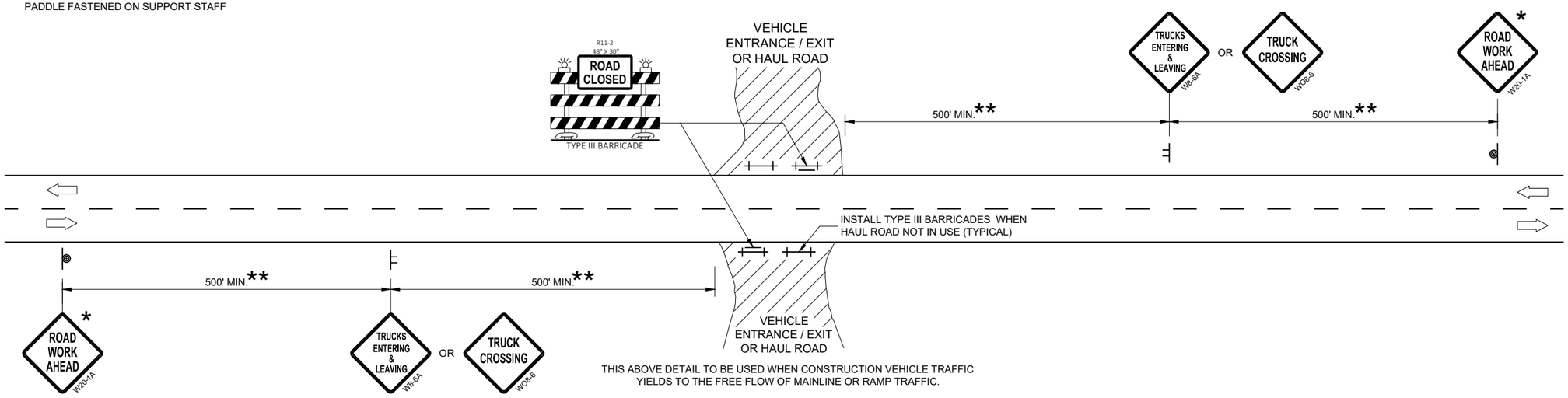
WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND / OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

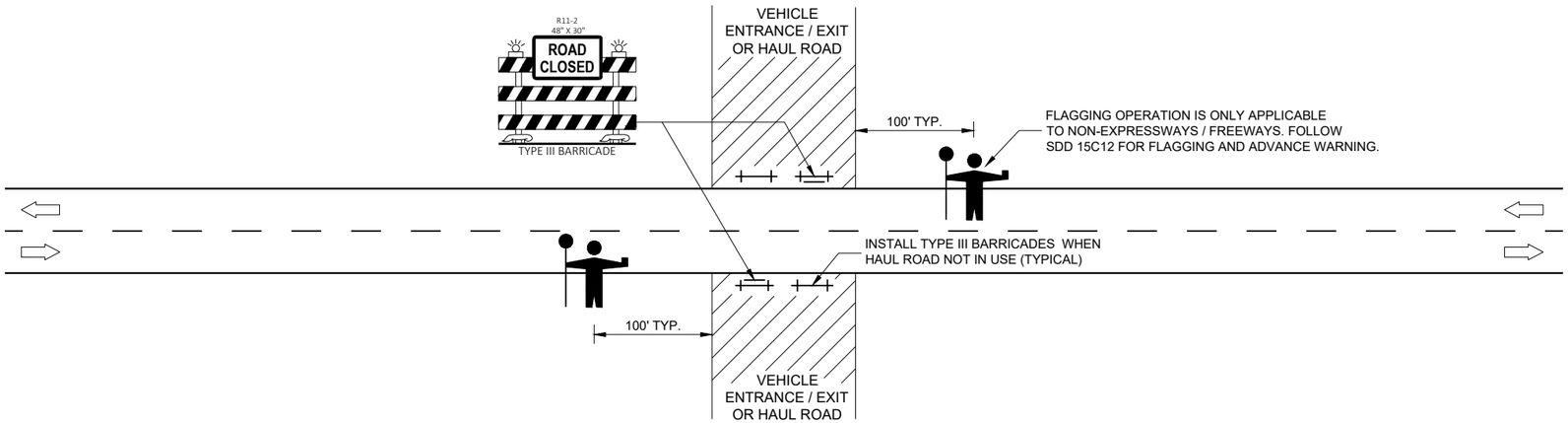
PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

* THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE ENTRANCE / EXIT CONDITIONS ARE SEPARATED BY MORE THAN TWO MILES FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.

** 500 FEET SHOWN IS FOR ROADWAYS WITH A NON-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35 -40 MPH, USE 350 FEET. FOR 25-30 MPH, USE 200 FEET. USE 1000-1500 FEET FOR EXPRESSWAY / FREEWAY.



THIS ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC.



THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15D29 - 05

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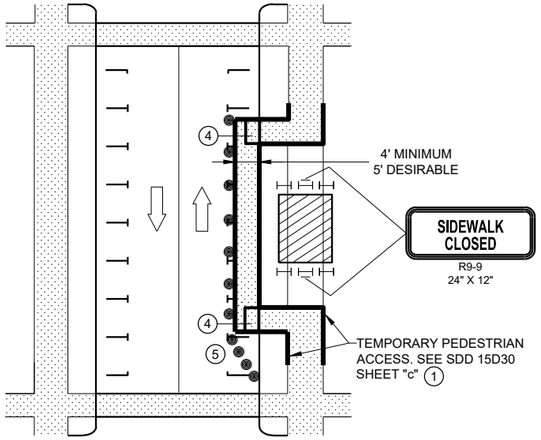
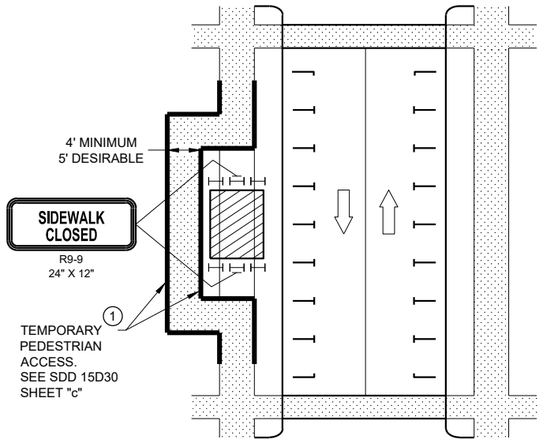
SDD 15D29 - 05

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

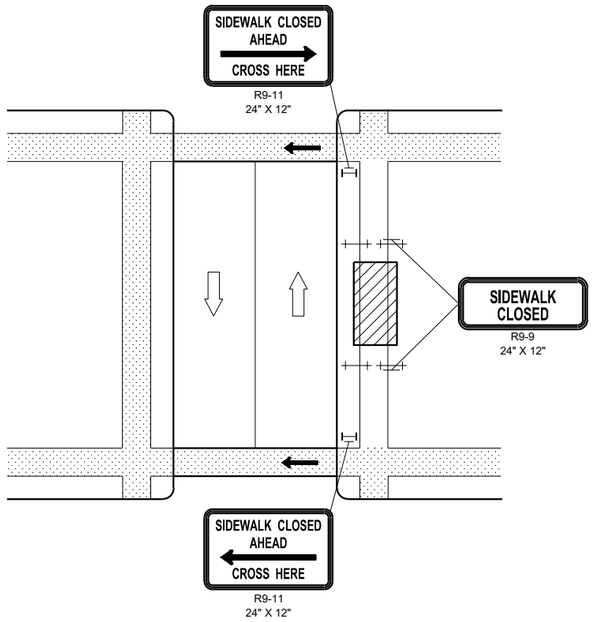


MID-BLOCK SIDEWALK SIDEWALK CLOSURE IN PARKING LANE

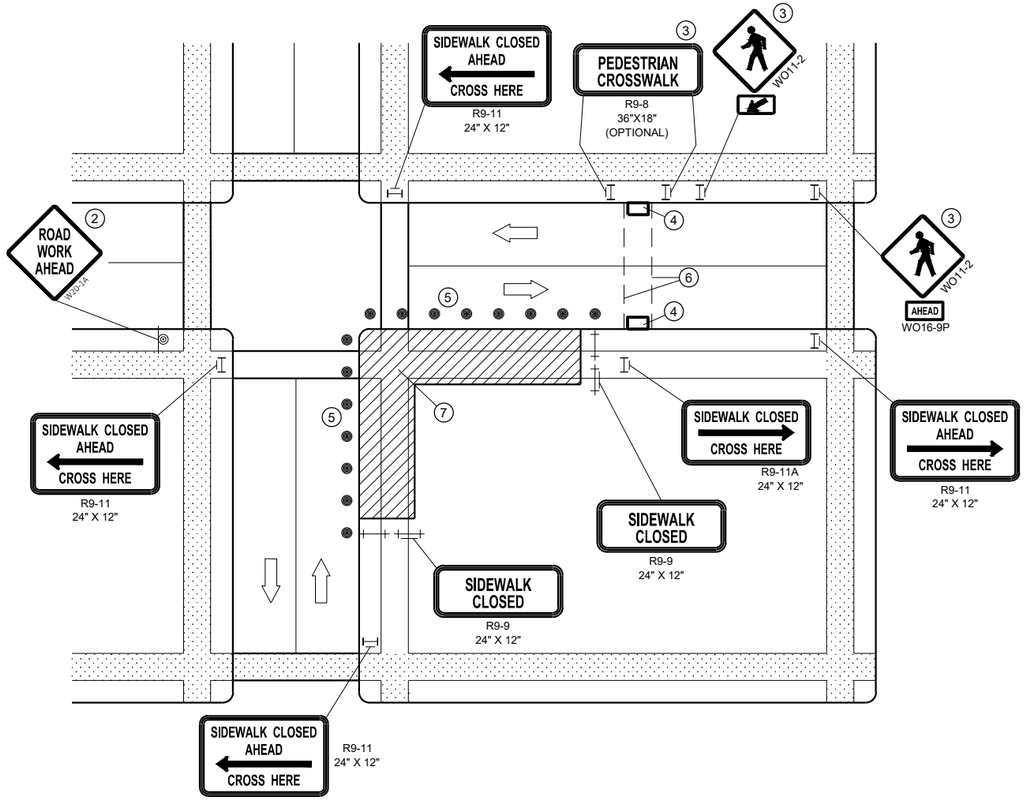
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN, EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE
2. "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.
3. IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
4. TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.
5. DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
6. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
7. LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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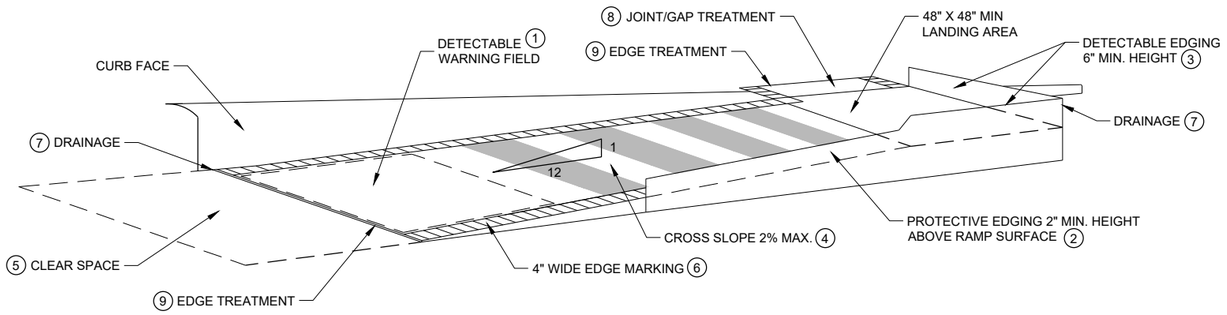
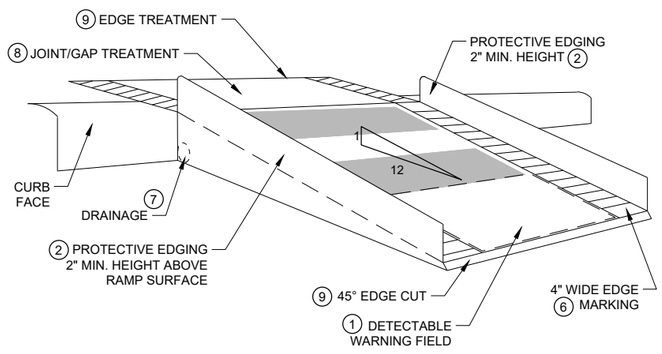
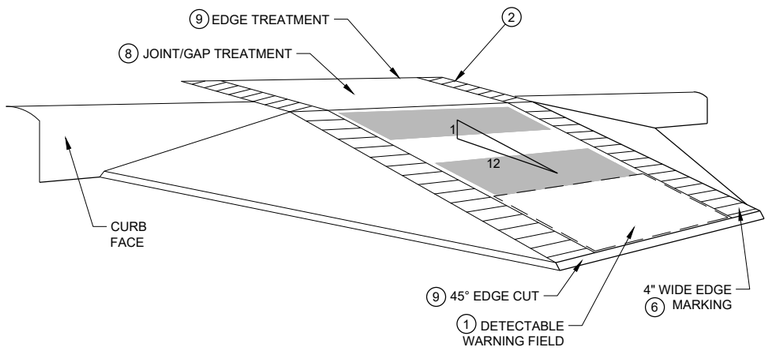
SDD 15D30 - 05a
SDD15D30 - 05a



TEMPORARY CURB RAMP PARALLEL TO CURB



WITH PROTECTIVE EDGE



WITH SIDE APRON

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

LEGEND

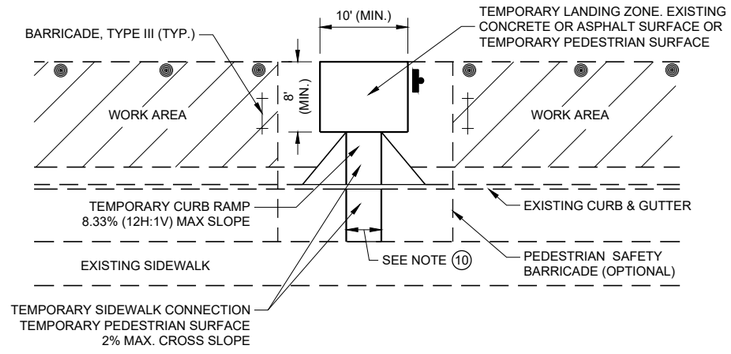
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- WORK AREA

GENERAL NOTES

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
5. CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
7. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
10. 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.



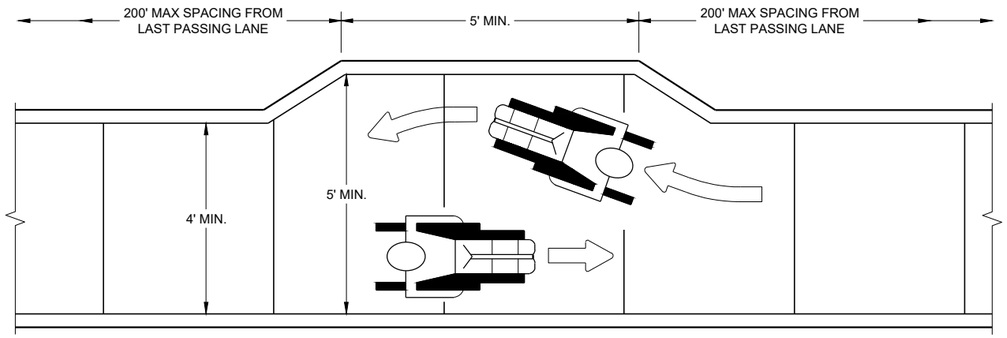
TEMPORARY BUS STOP PAD

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

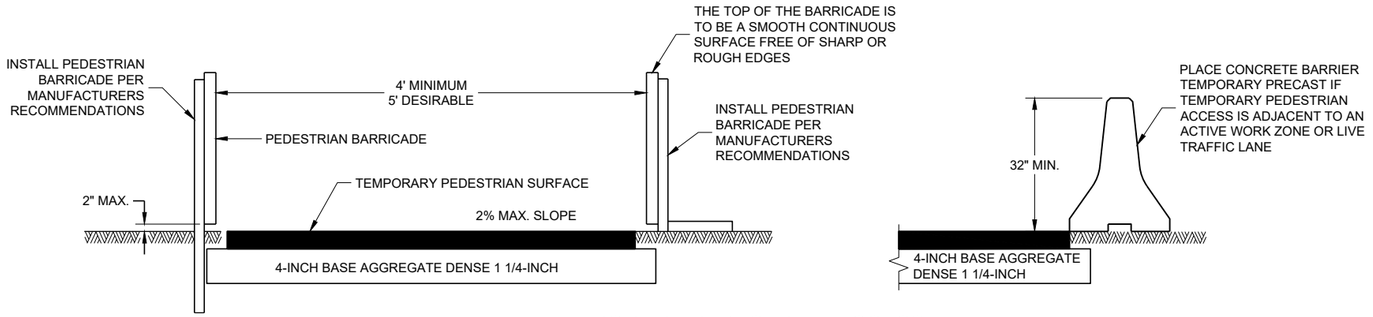
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 15D30 - 05b

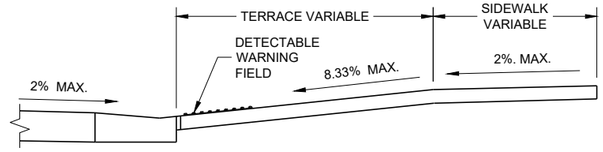
SDD 15D30 - 05b



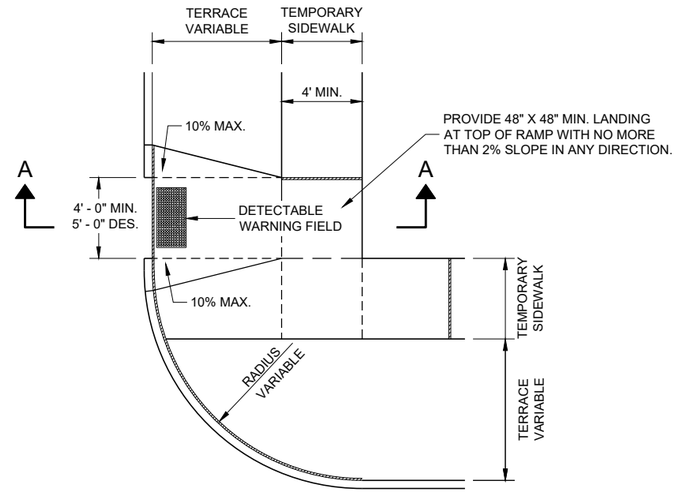
NARROW SIDEWALK PASSING DETAIL



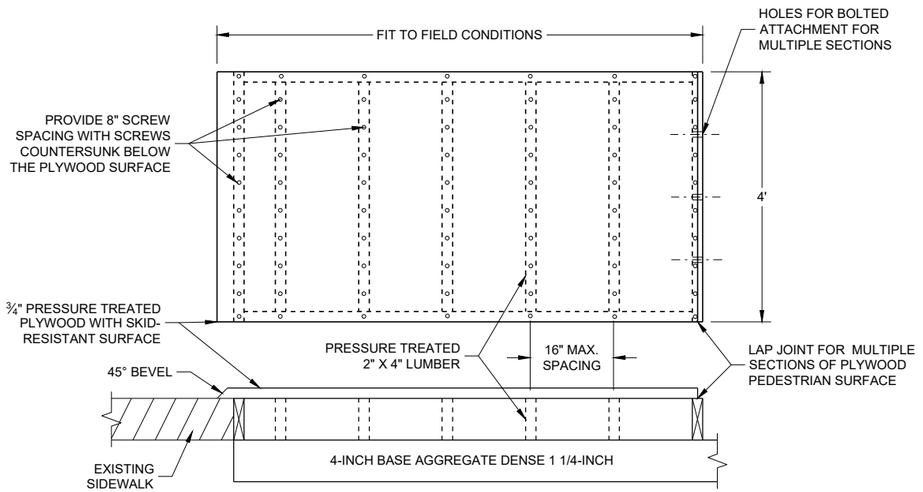
TEMPORARY PEDESTRIAN ACCESS



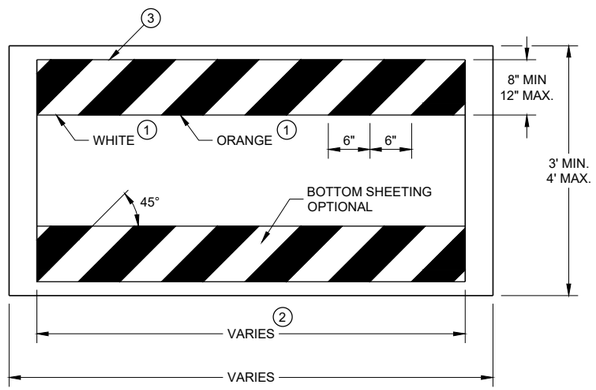
SECTION A - A



PLAN VIEW
TEMPORARY TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



TEMPORARY PEDESTRIAN BARRICADE *

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

SDD 15D30 - 05c

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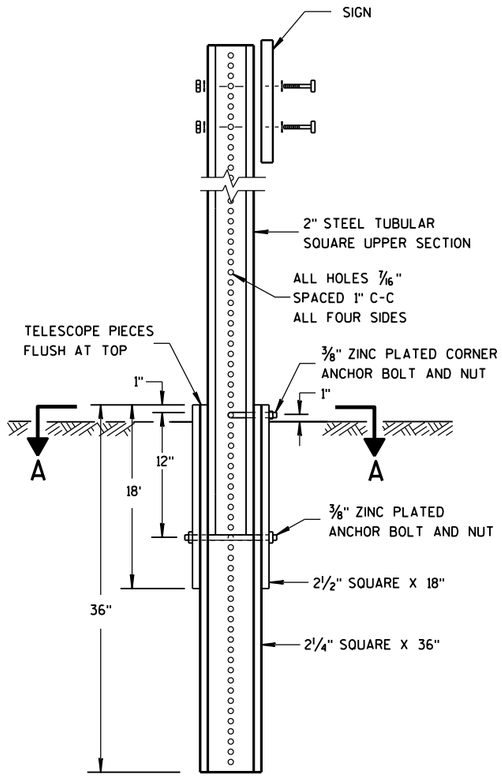
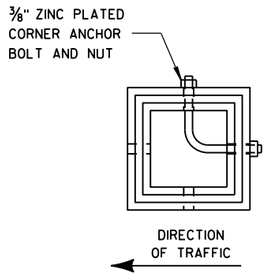
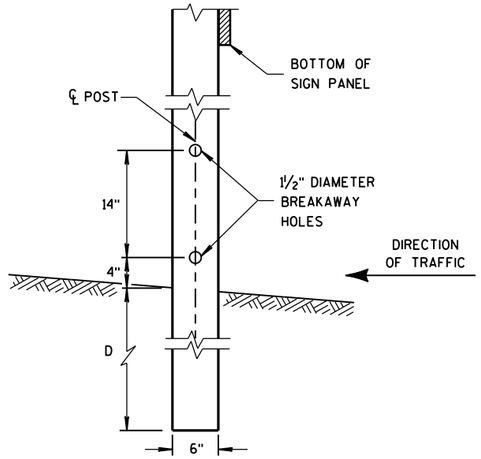
SDD 15D30 - 05c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



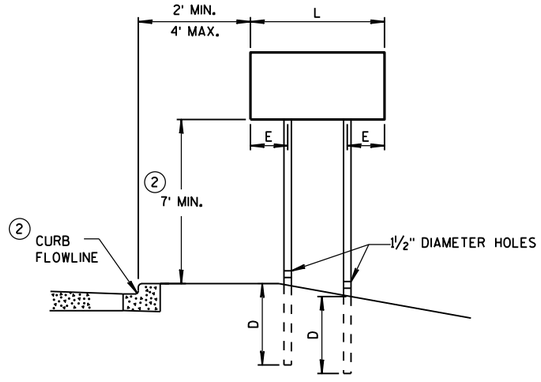
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

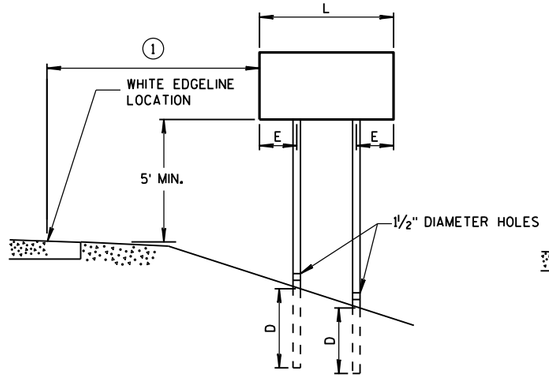
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

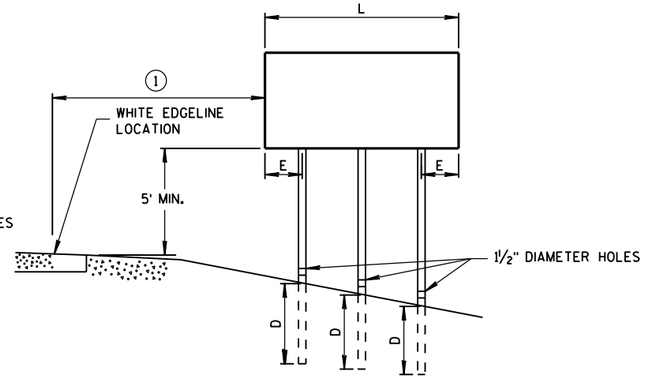
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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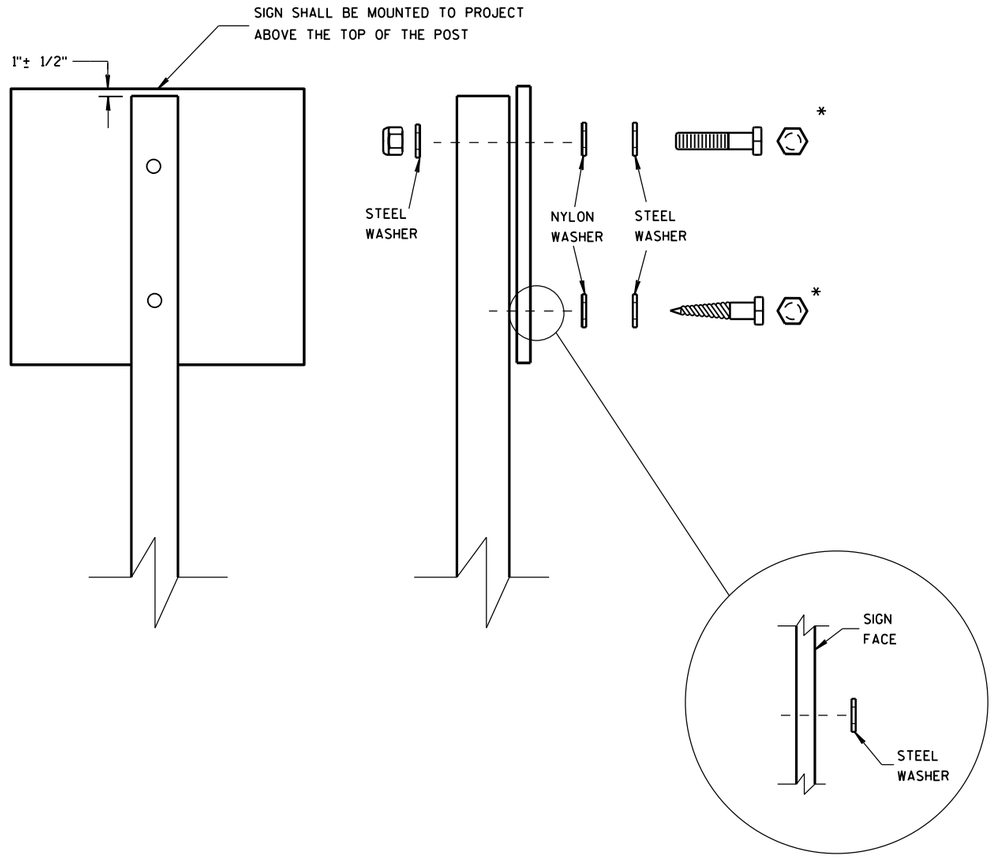
S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

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S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

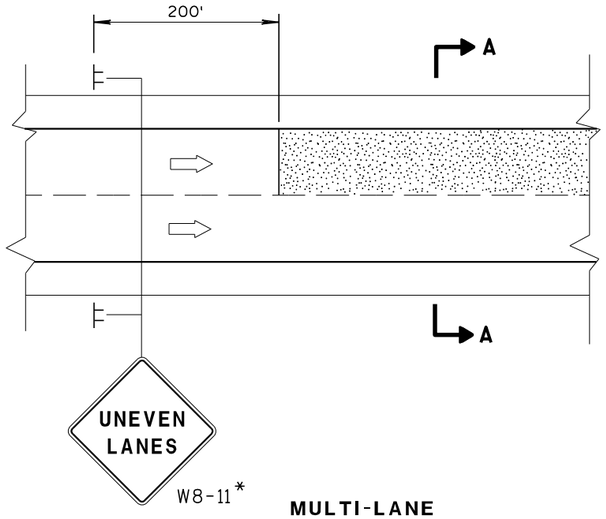
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

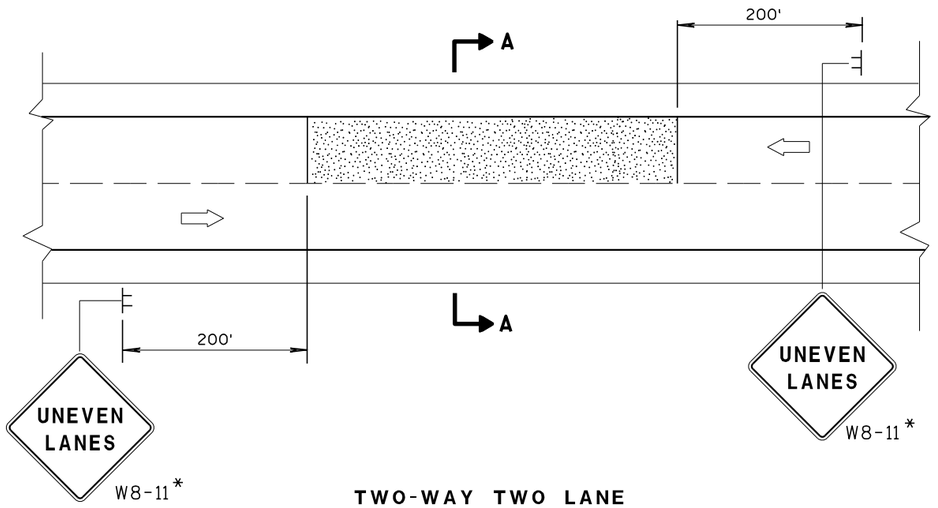
June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

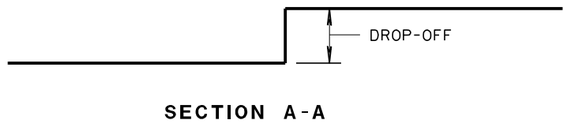
FHWA



MULTI-LANE



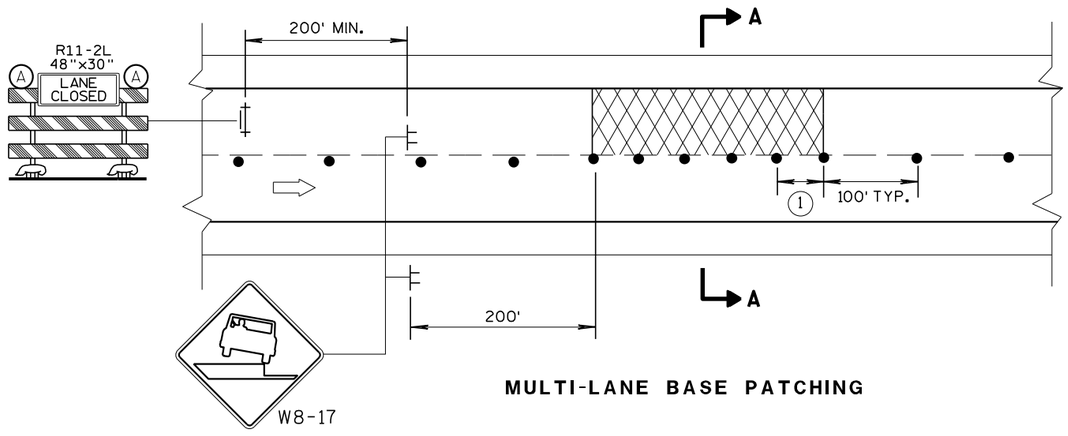
TWO-WAY TWO LANE



SECTION A-A

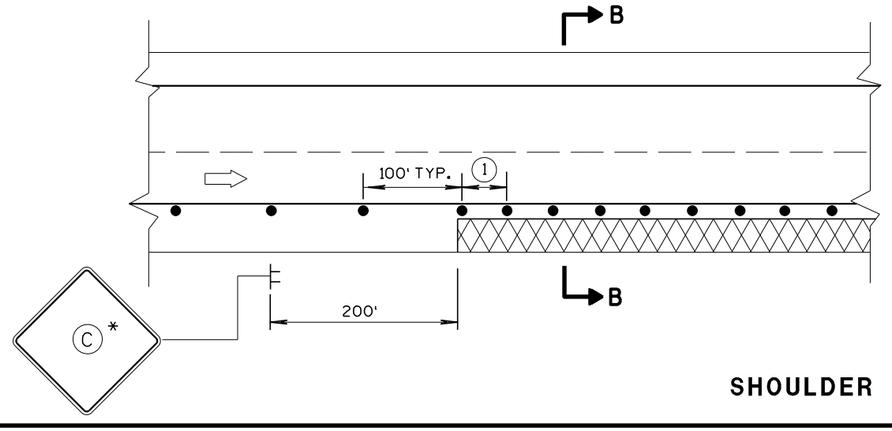
OR

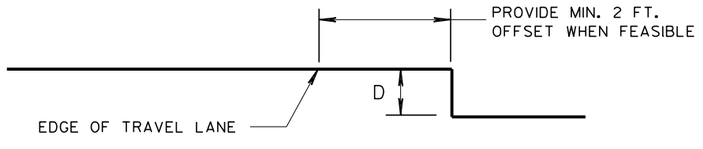
SECTION A-A



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS





SECTION B-B

SHOULDER DROP-OFFS

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EACH ENTRANCE RAMP.

(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP-OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE
/S/ Andrew H
WORK ZONE EN 277
FHWA

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S.D.D. 15 D 39-2

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S.D.D. 15 D 39-2

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR SHIFTING RIGHT LANE - REVERSE FOR SHIFTING LEFT LANE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

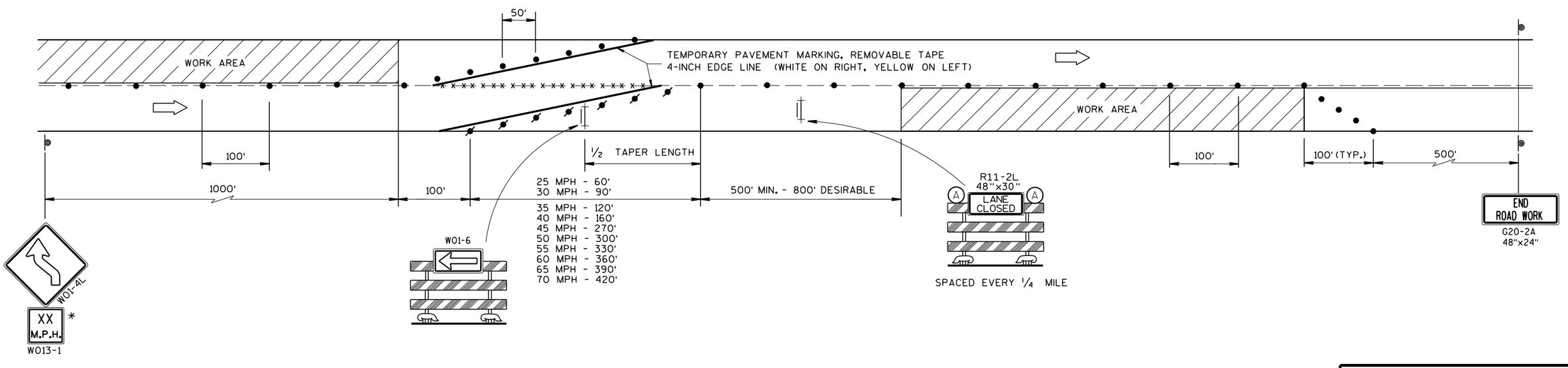
FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.



* USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED

LANE SHIFT MULTI-LANE DIVIDED OR ONE WAY ROAD

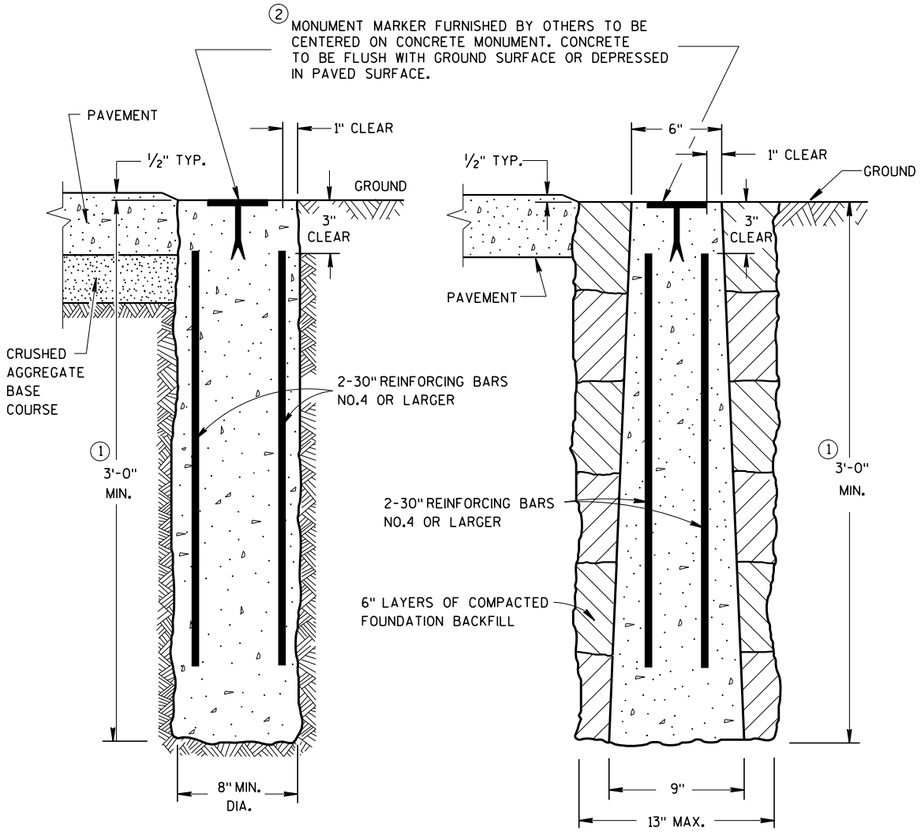
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE WAY ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE
/S/ Andrew I
WORK ZONE E
FHWA

6

S.D.D. 15 D 40-1

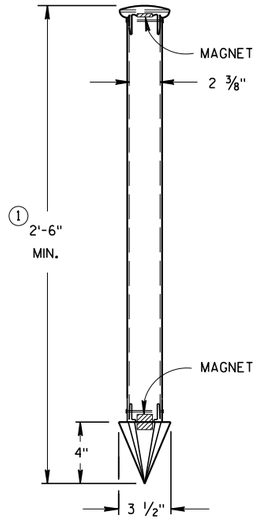


CAST-IN-PLACE

PRECAST

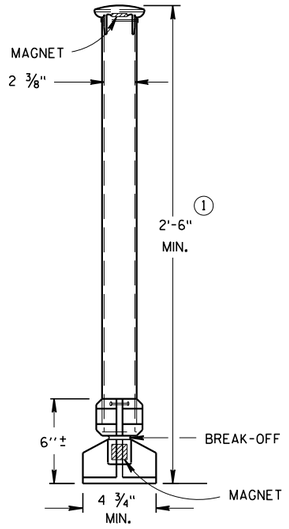
CONCRETE MONUMENTS

TYPE A



TYPE C

DRIVE-IN MONUMENT



TYPE D
NON-DRIVEN
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.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

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.

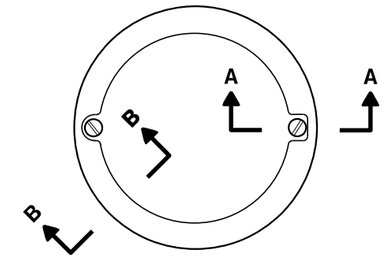
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

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.

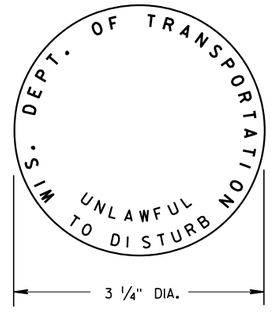
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

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.

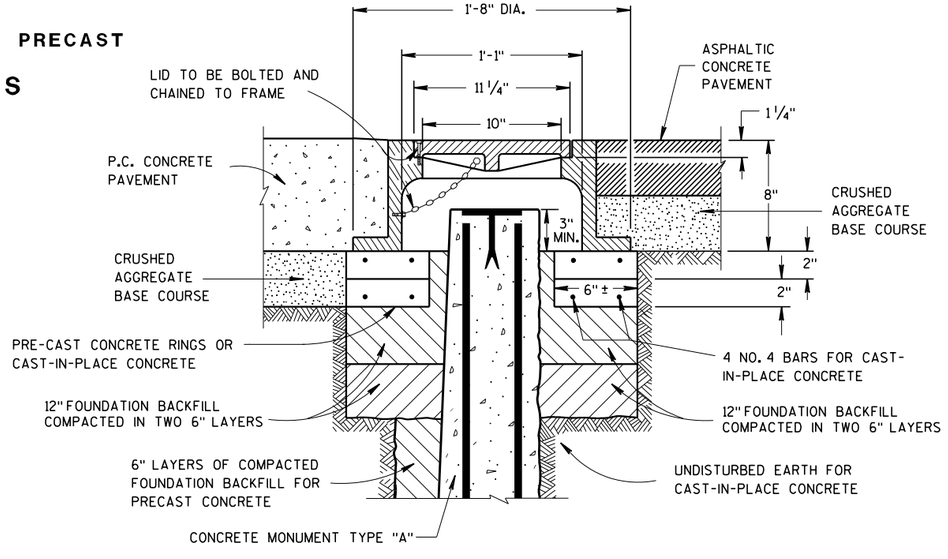


TOP VIEW



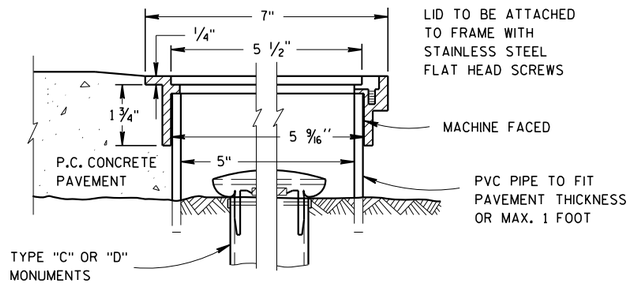
② WIS DOT MONUMENT MARKER LOGO

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 MONUMENTS AND COVERS

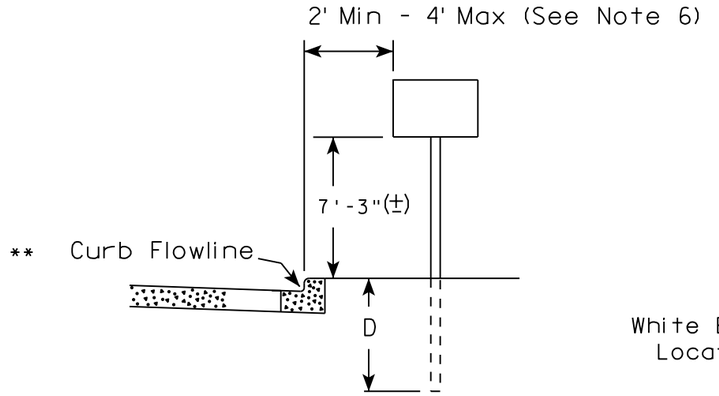
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

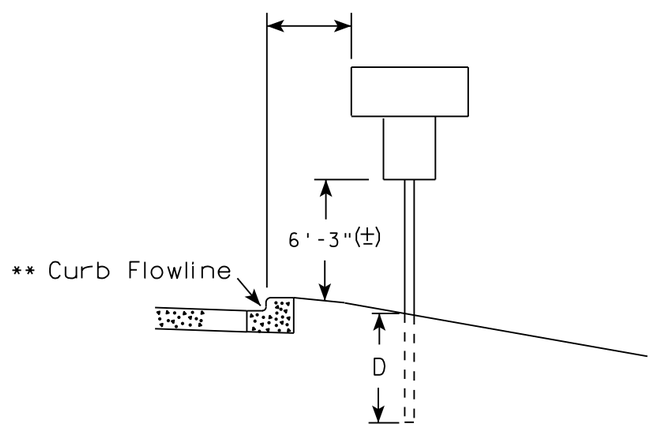
APPROVED
March 2018 — DATE
/S/ Raymond A. Kumagai — CHIEF SURVEYING AND MAPPING ENGINEER
FHWA

6

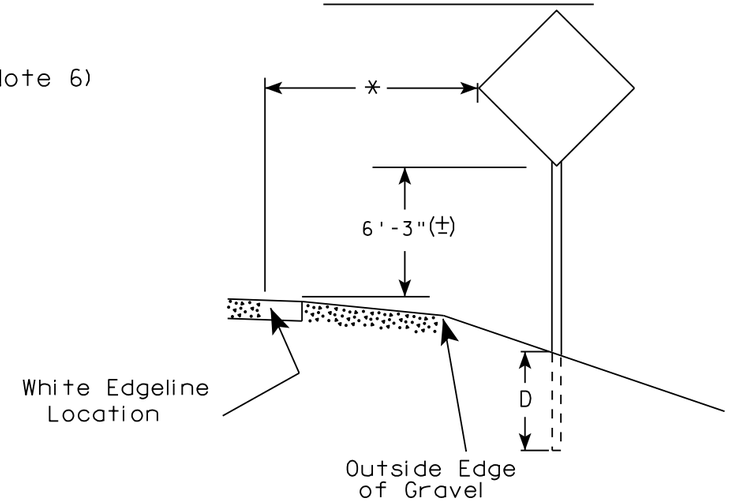
S.D.D. 16 A 1-7

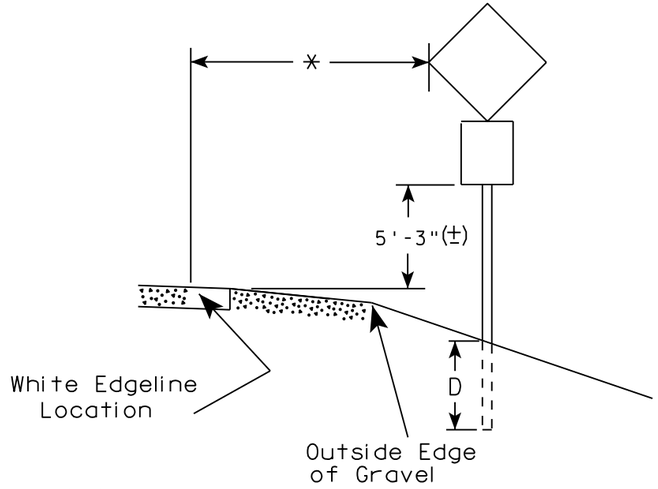
URBAN AREA





RURAL AREA (See Note 2)





GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

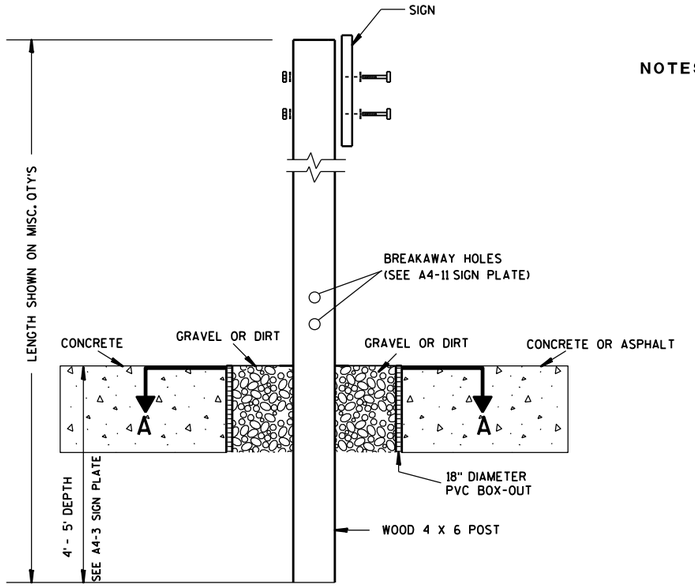
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

7

7

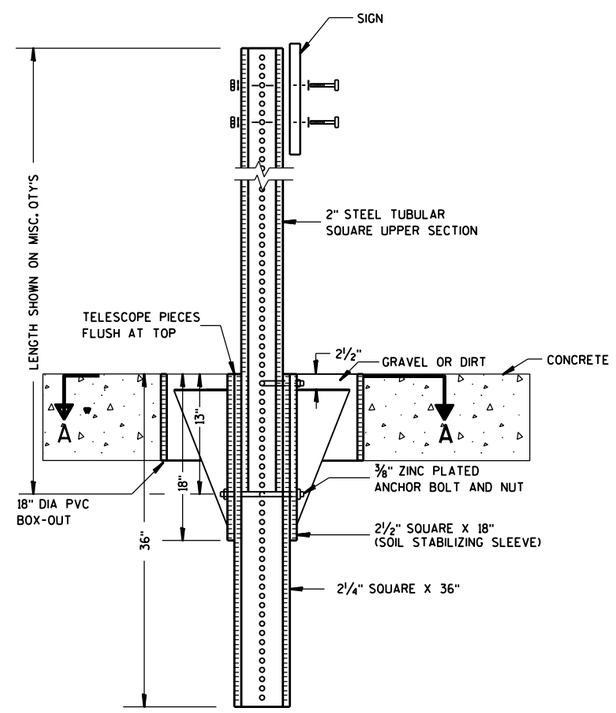
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 280	E



ELEVATION VIEW

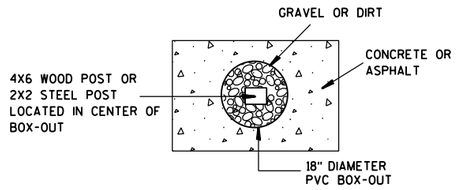
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

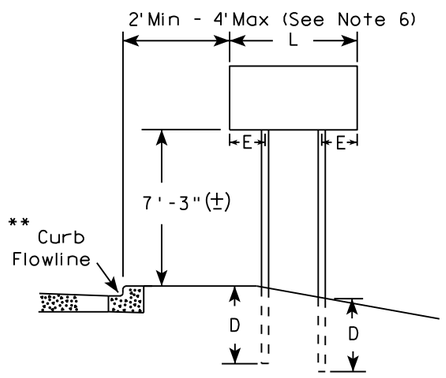
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

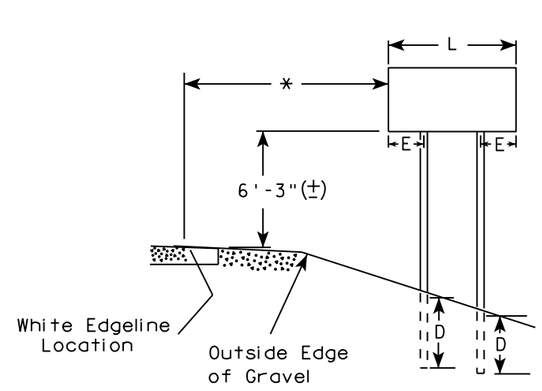
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

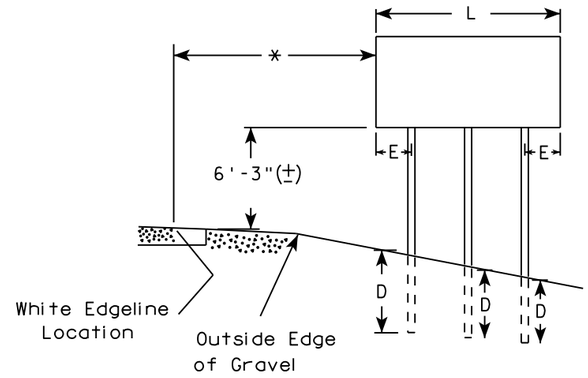
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

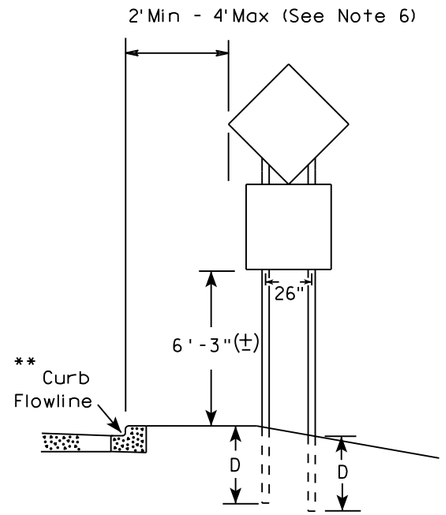
URBAN AREA



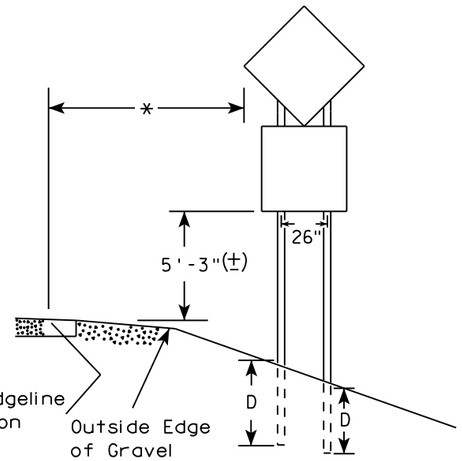
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

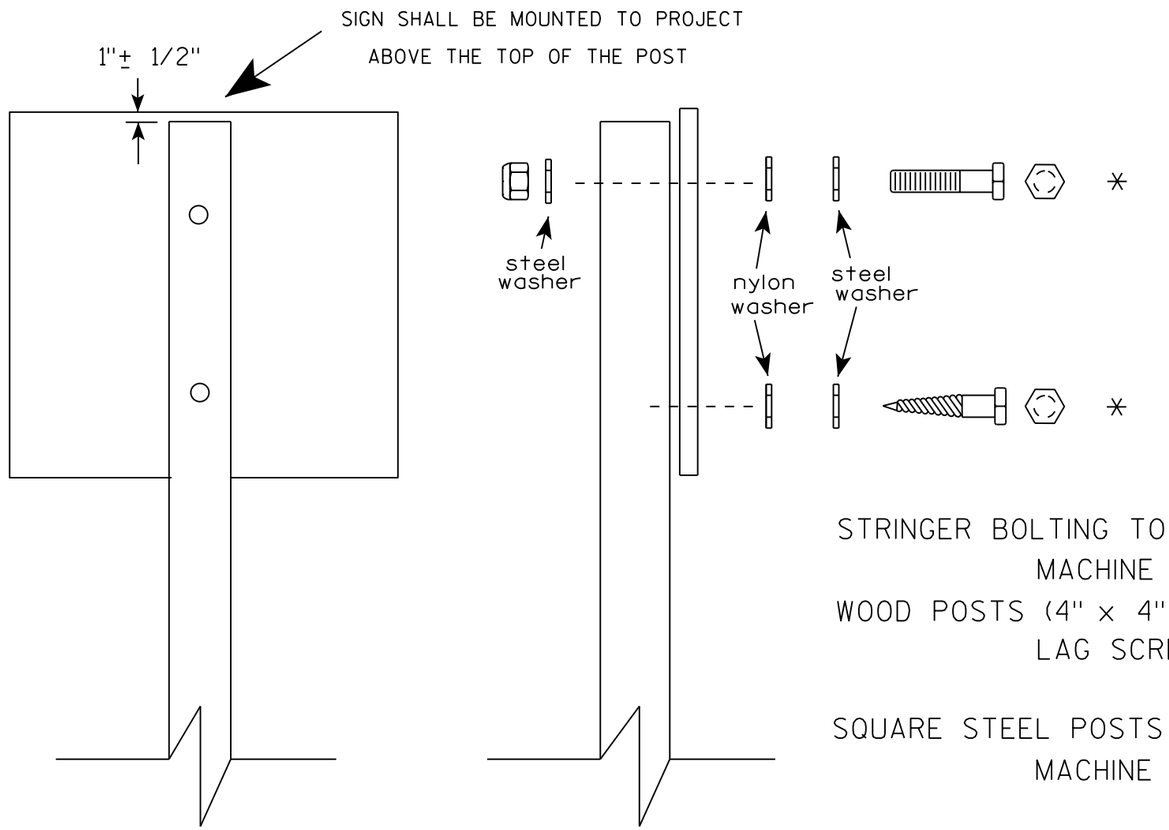
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 282	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)
SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

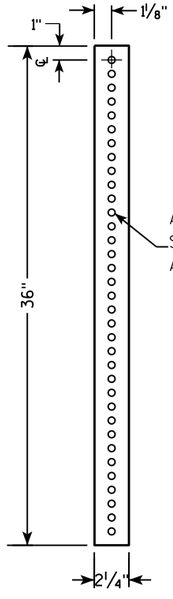
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

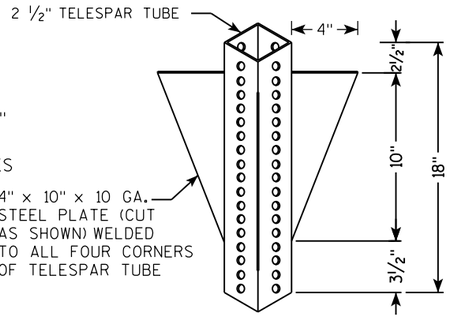
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

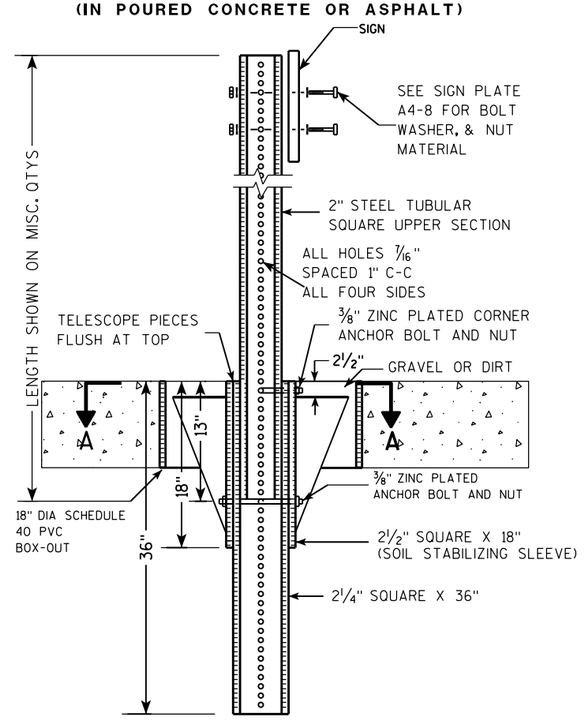
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



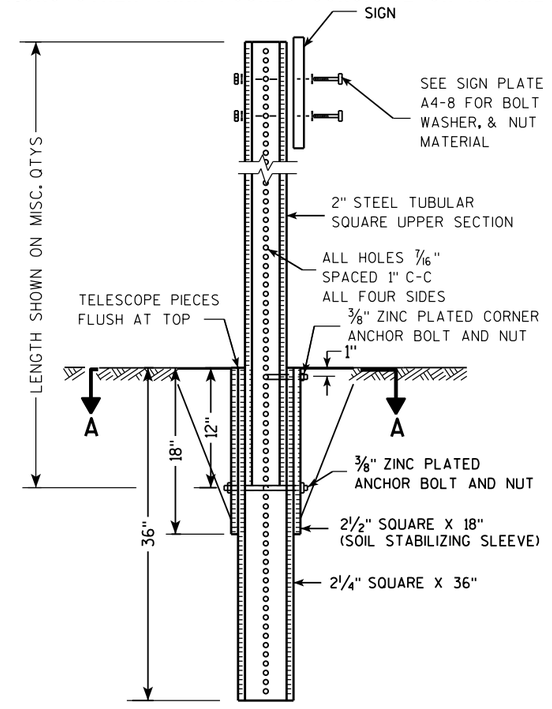
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

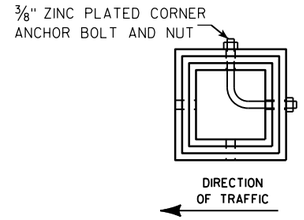


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

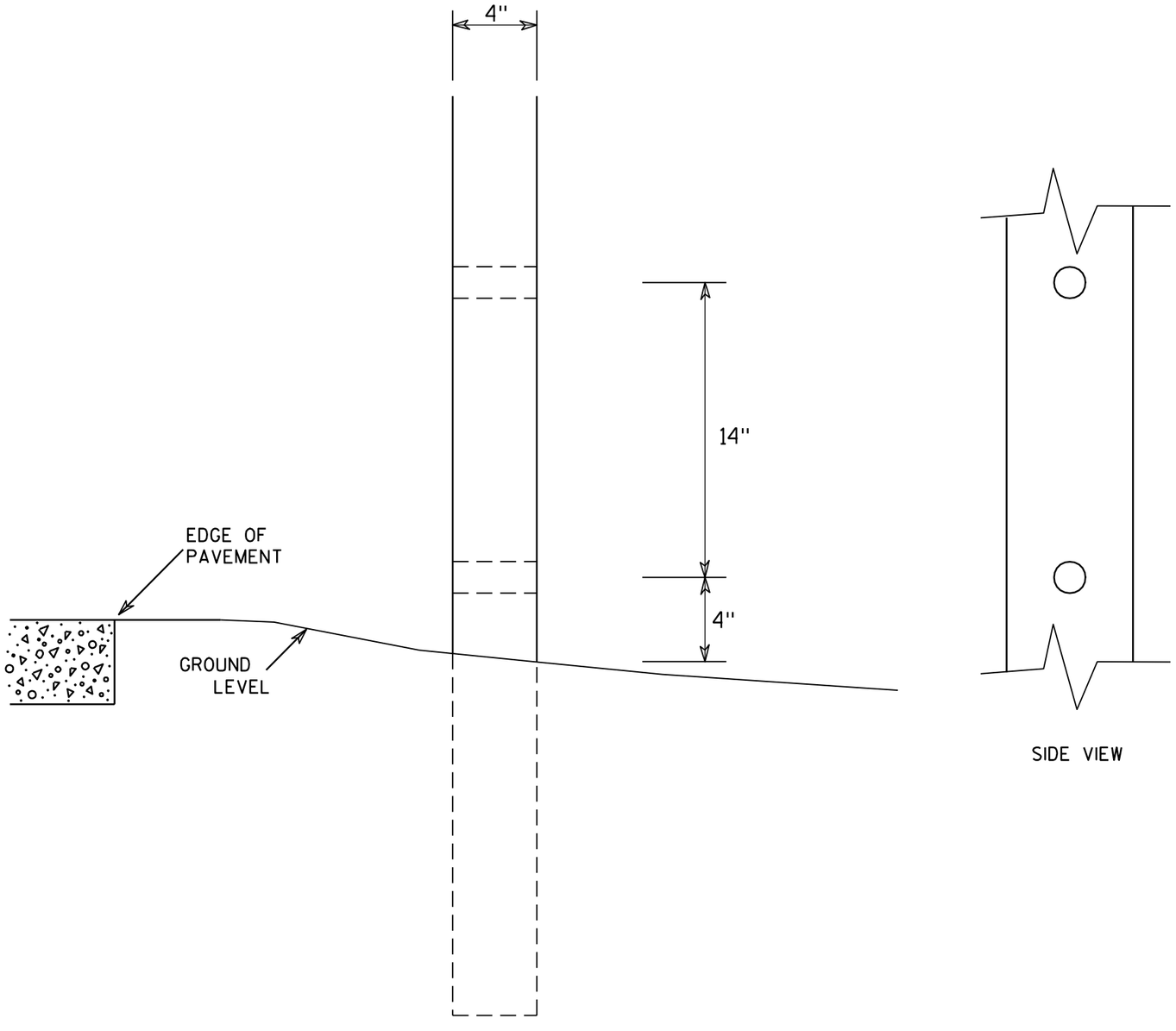
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 284 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



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

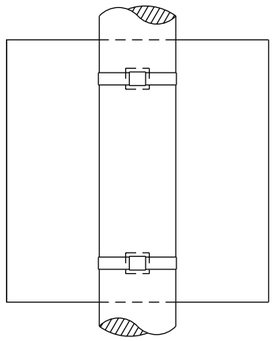
APPROVED Chester J Spang
for State Traffic Engineer

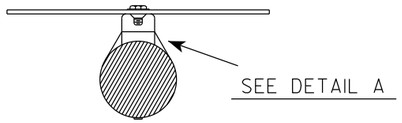
DATE 3/27/97 PLATE NO. A4-11.2

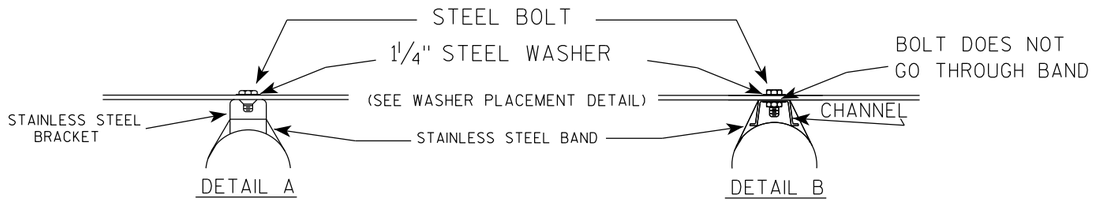
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 285	E

BANDING

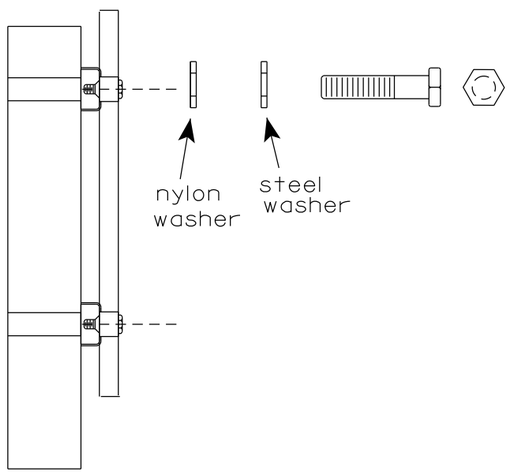
SINGLE SIGN







WASHER PLACEMENT

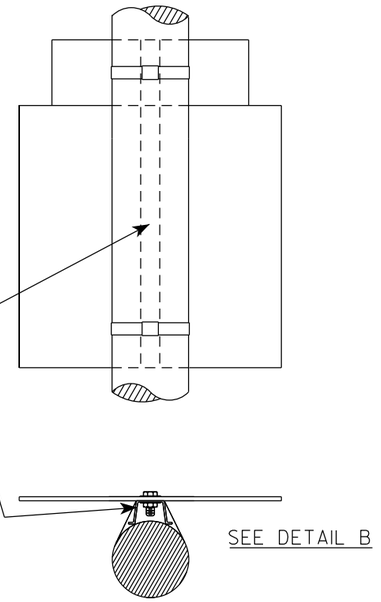


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

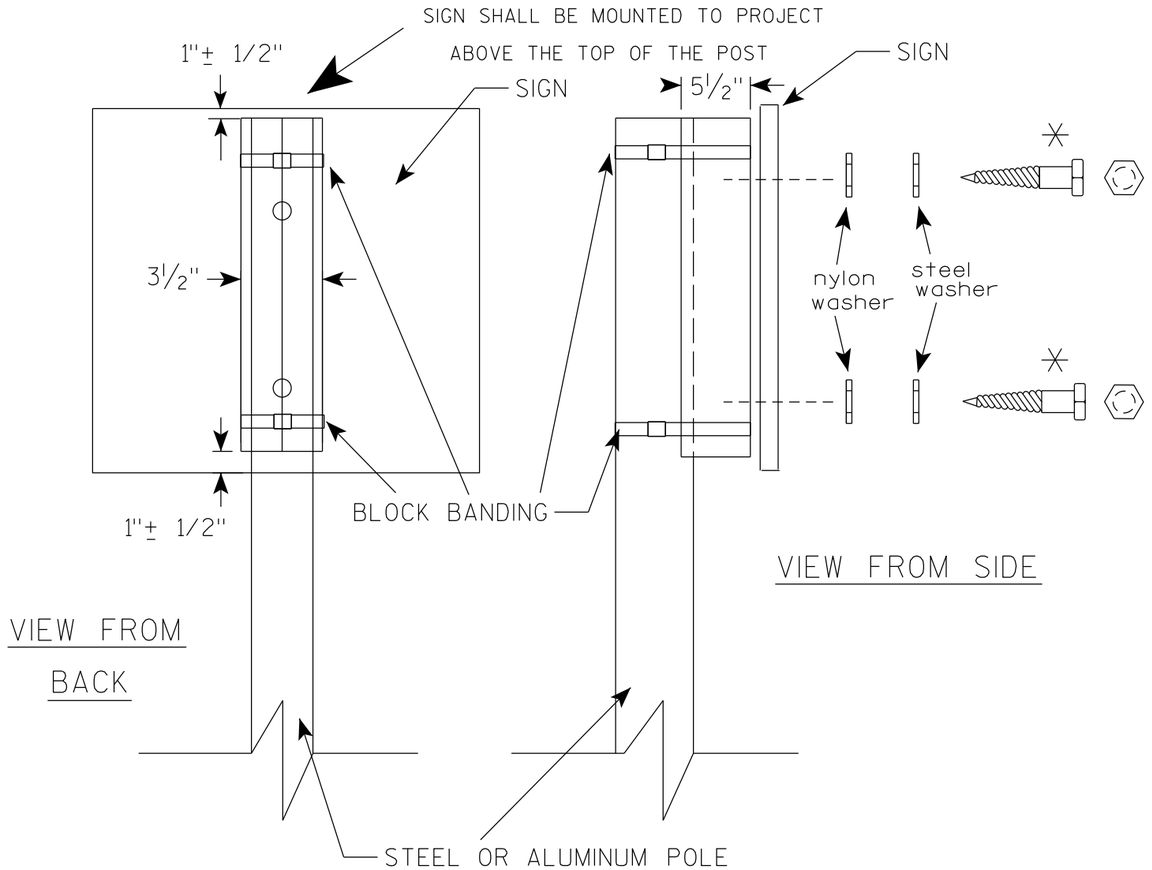
WISCONSIN DEPT OF TRANSPORTATION

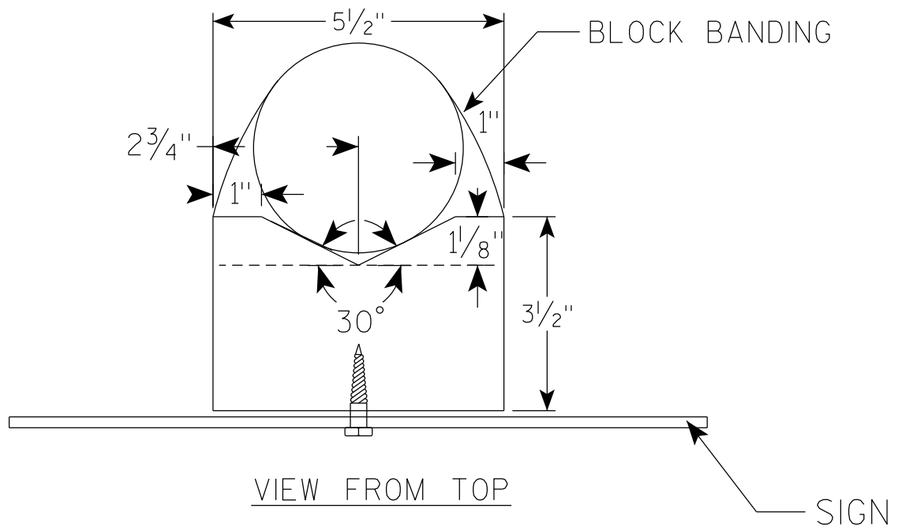
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-9.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 286	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

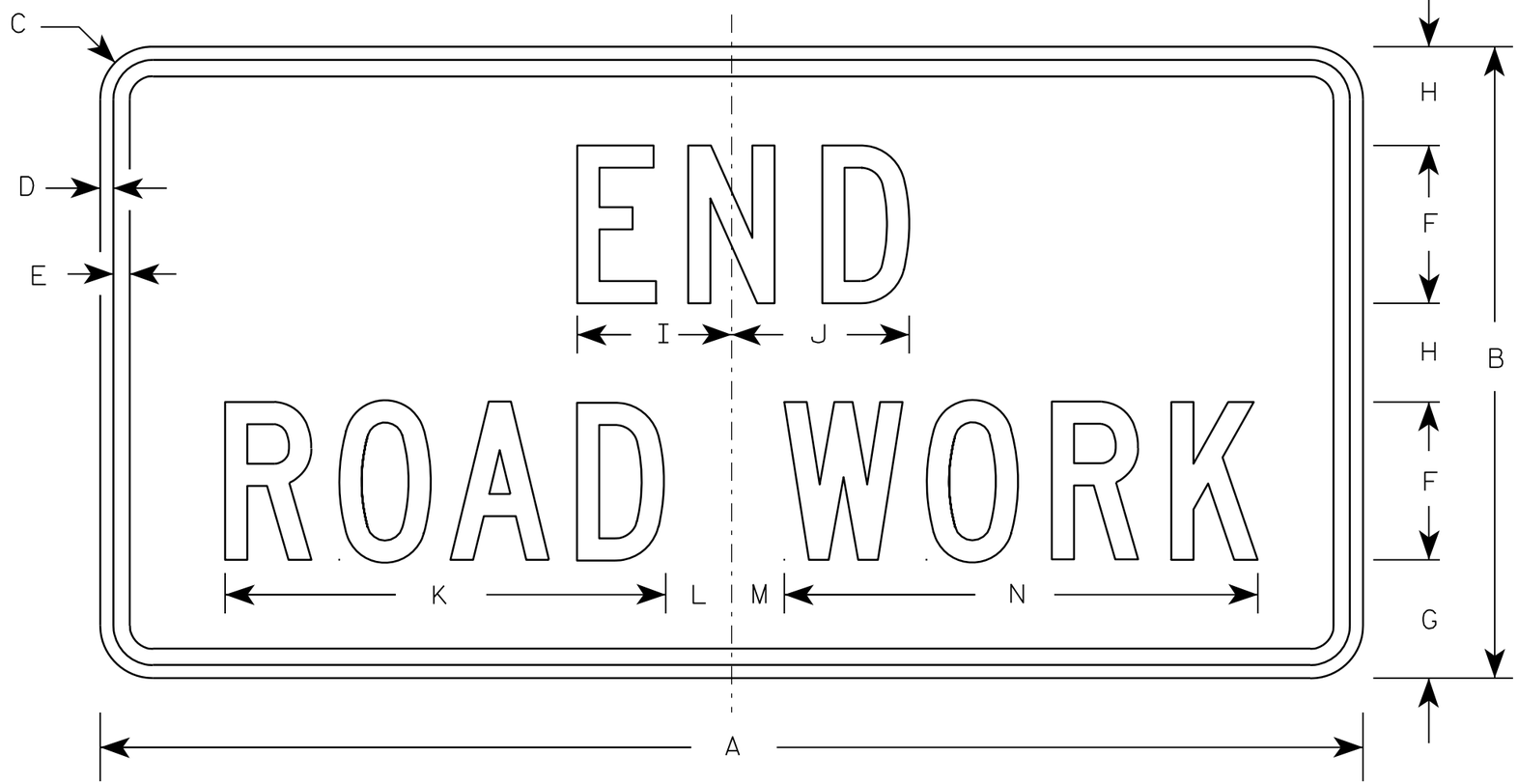
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO: | SHEET NO: 287 | E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

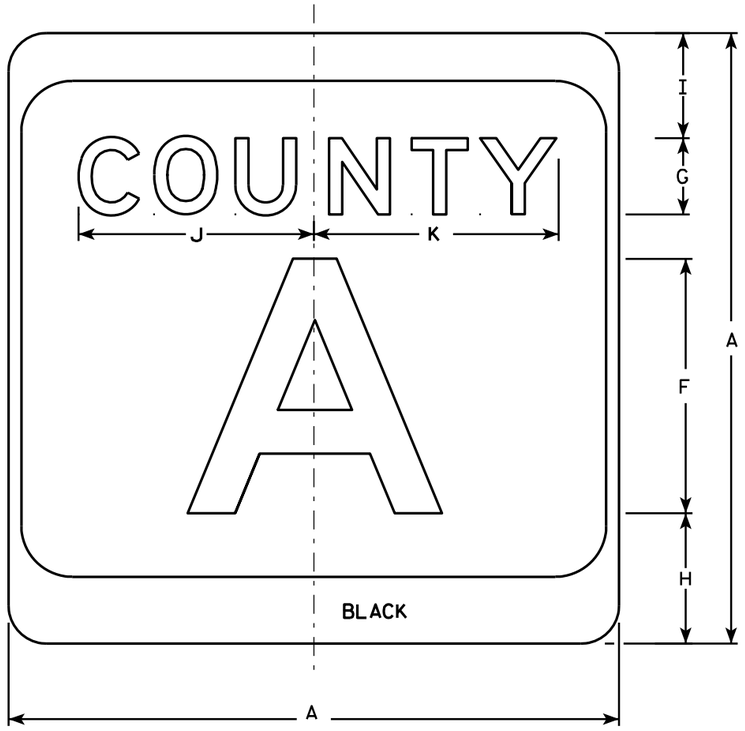
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

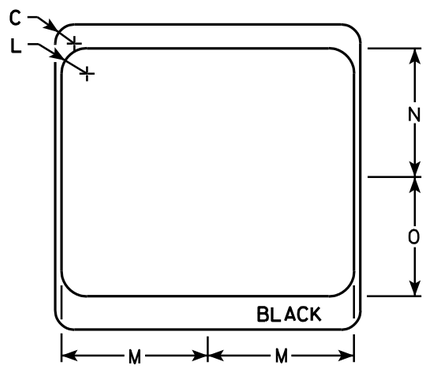
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 288	E

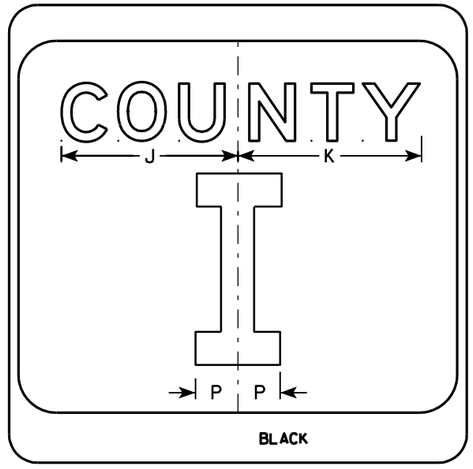
FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN PLOT DATE : 30-SEP-2009 09:31 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 5.561773:1.000000

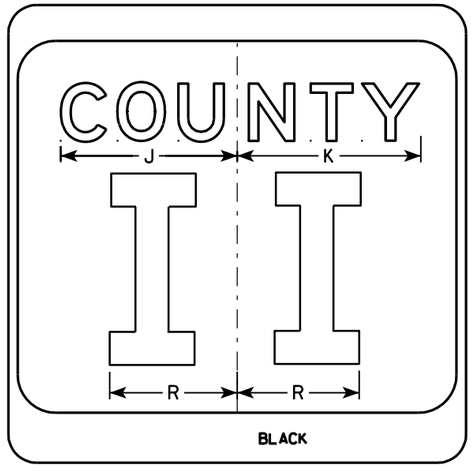
7



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

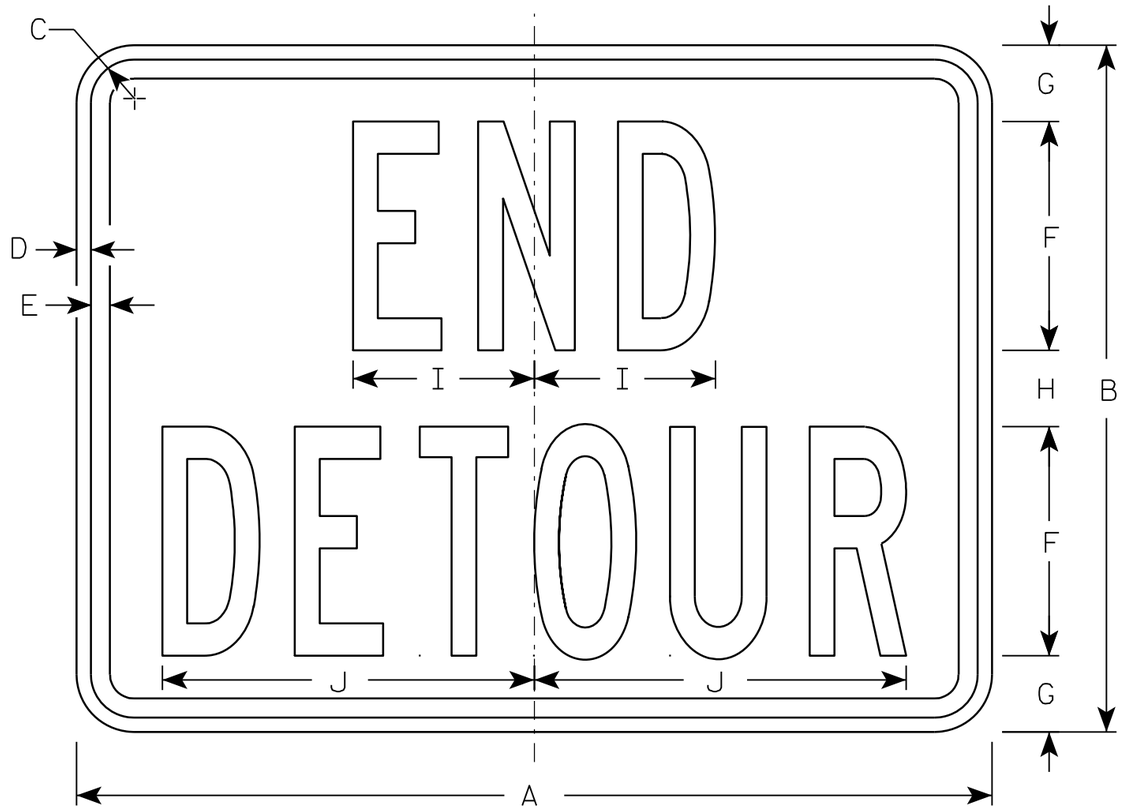
CTH MARKER
M1-5A FOR ASSEMBLIES

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: 289	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

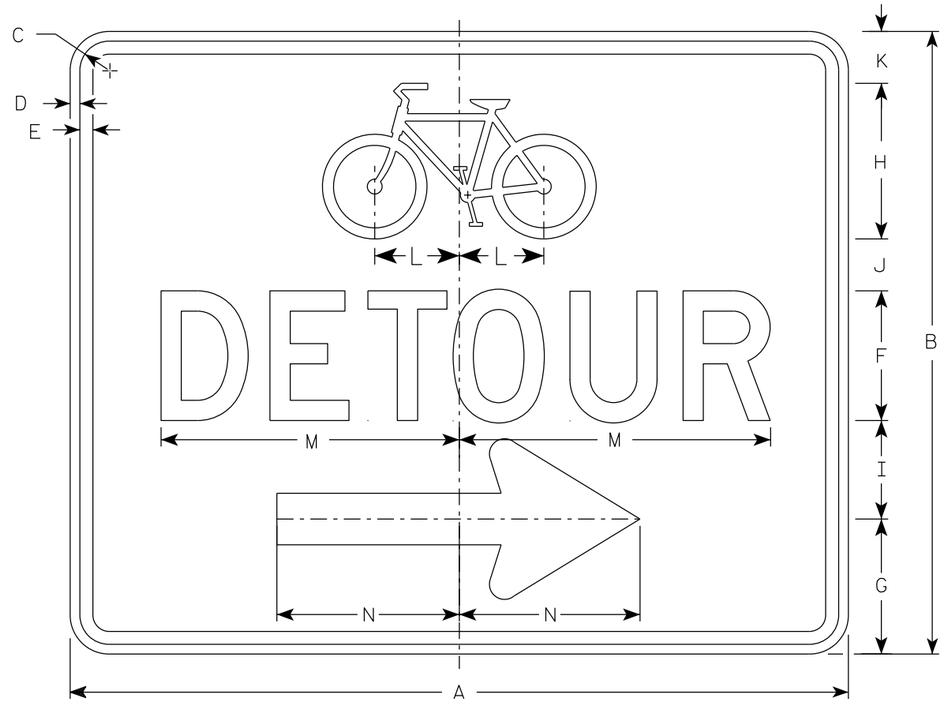
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

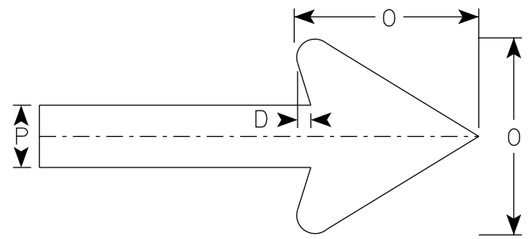
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 290	E



M4-9CR

NOTES

1. Sign is Type II-Type F Reflective
2. Color:
   Background - Orange
   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. M4-9CL is the same as M4-9CR except the arrow 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																											
2	30	24	1 1/8	3/8	1/2	5	5 1/4	6	3 3/4	2	2	3 1/4	11 3/4	7	6	2											5.00
3																											
4																											
5																											

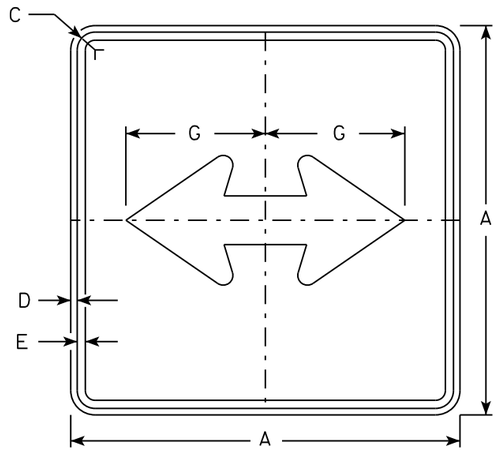
STANDARD SIGN
M4-9C L&R

WISCONSIN DEPT OF TRANSPORTATION

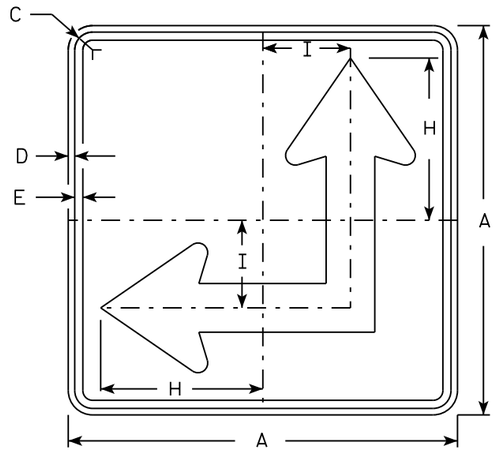
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/2/19 PLATE NO. M4-9C.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 291	E



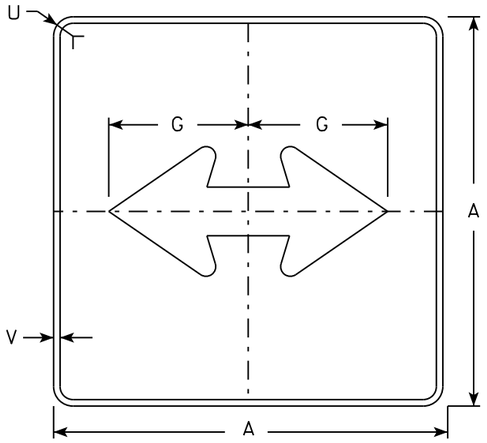
M6-4
MM6-4
MO6-4
MP6-4



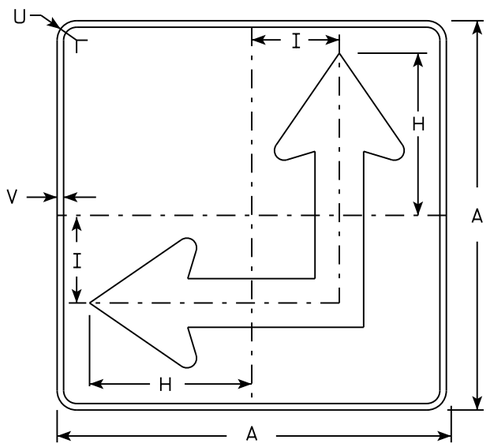
M6-6
MM6-6
MO6-6
MP6-6

NOTES

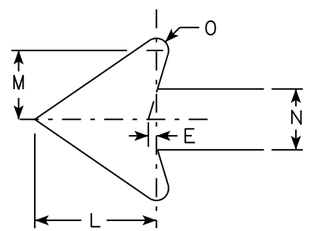
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

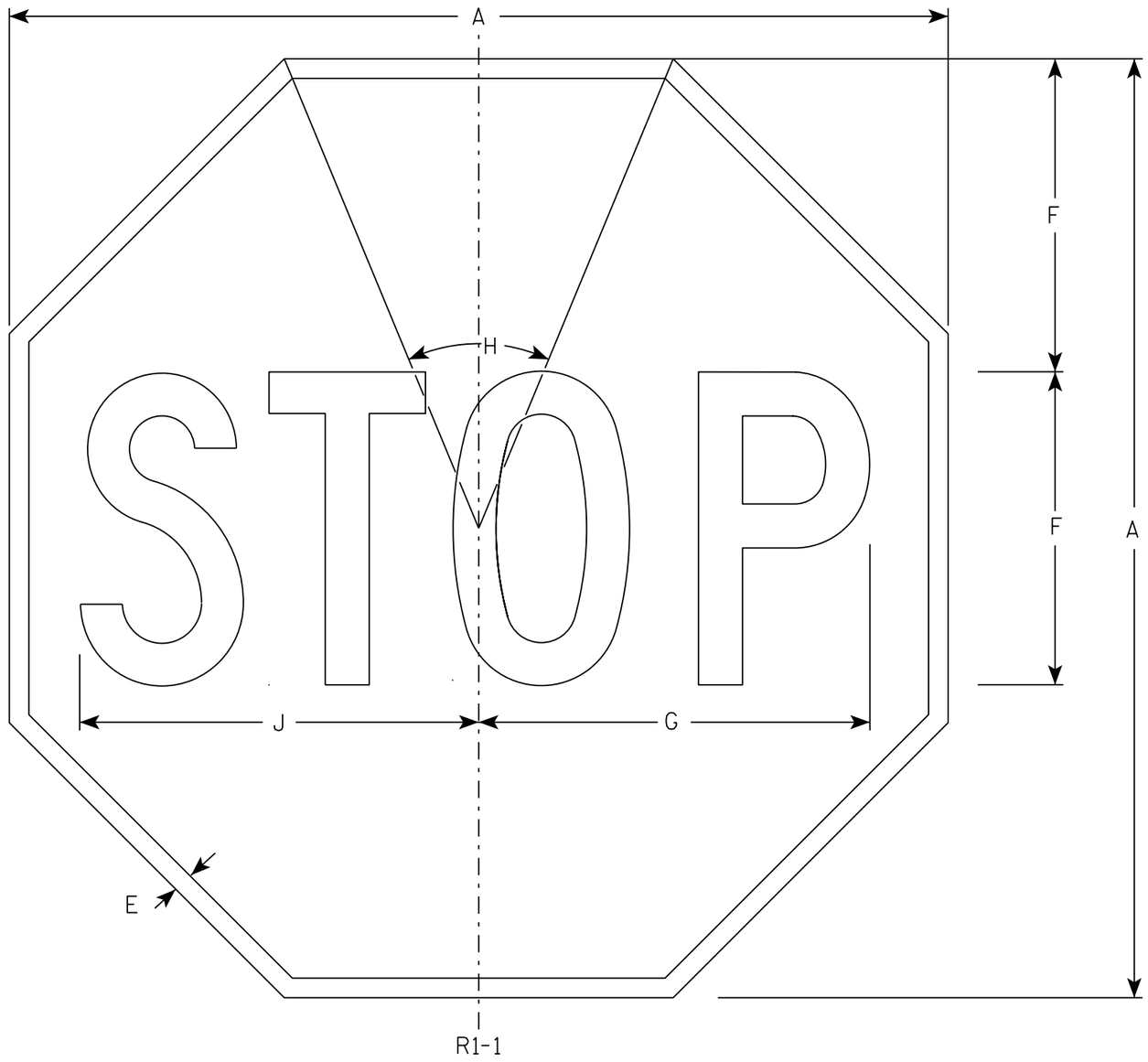
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 292 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

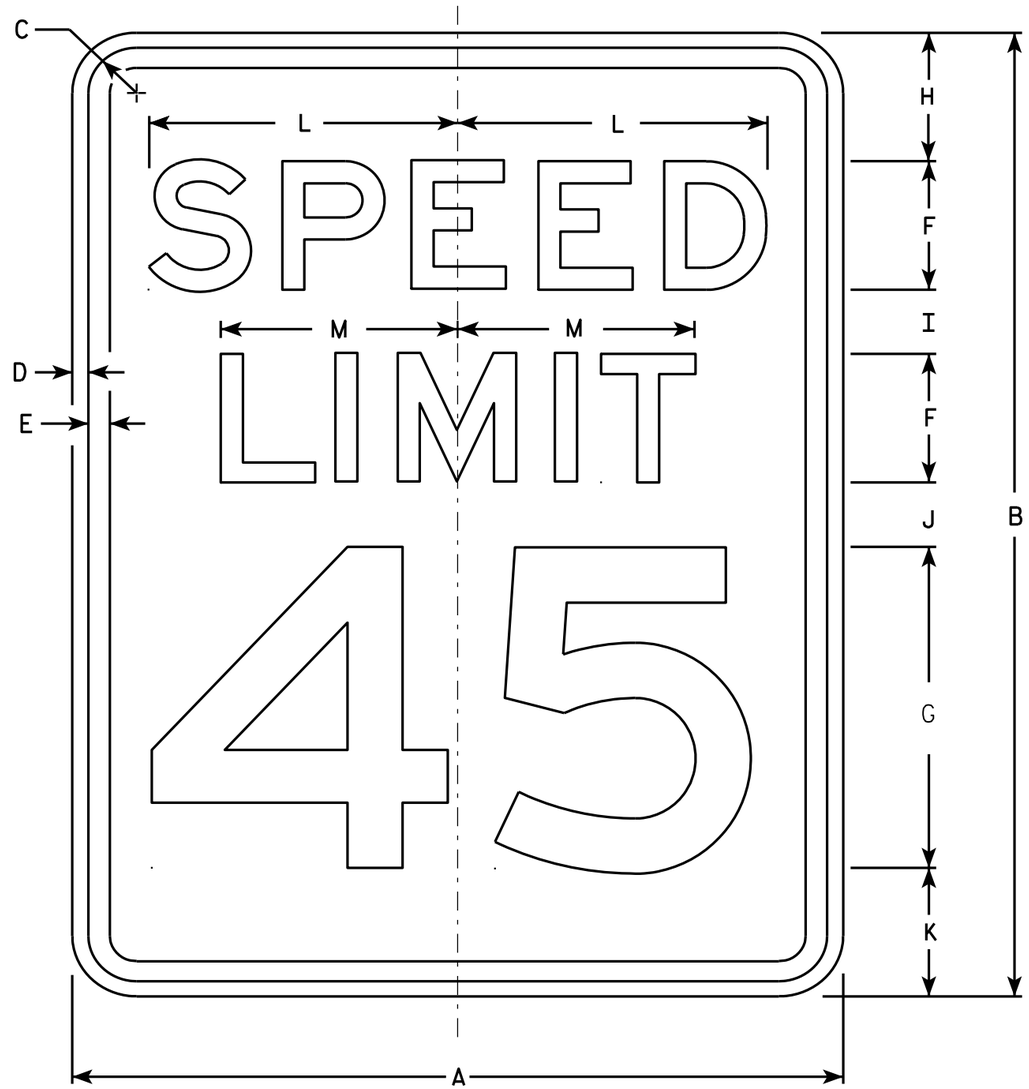
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 293	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

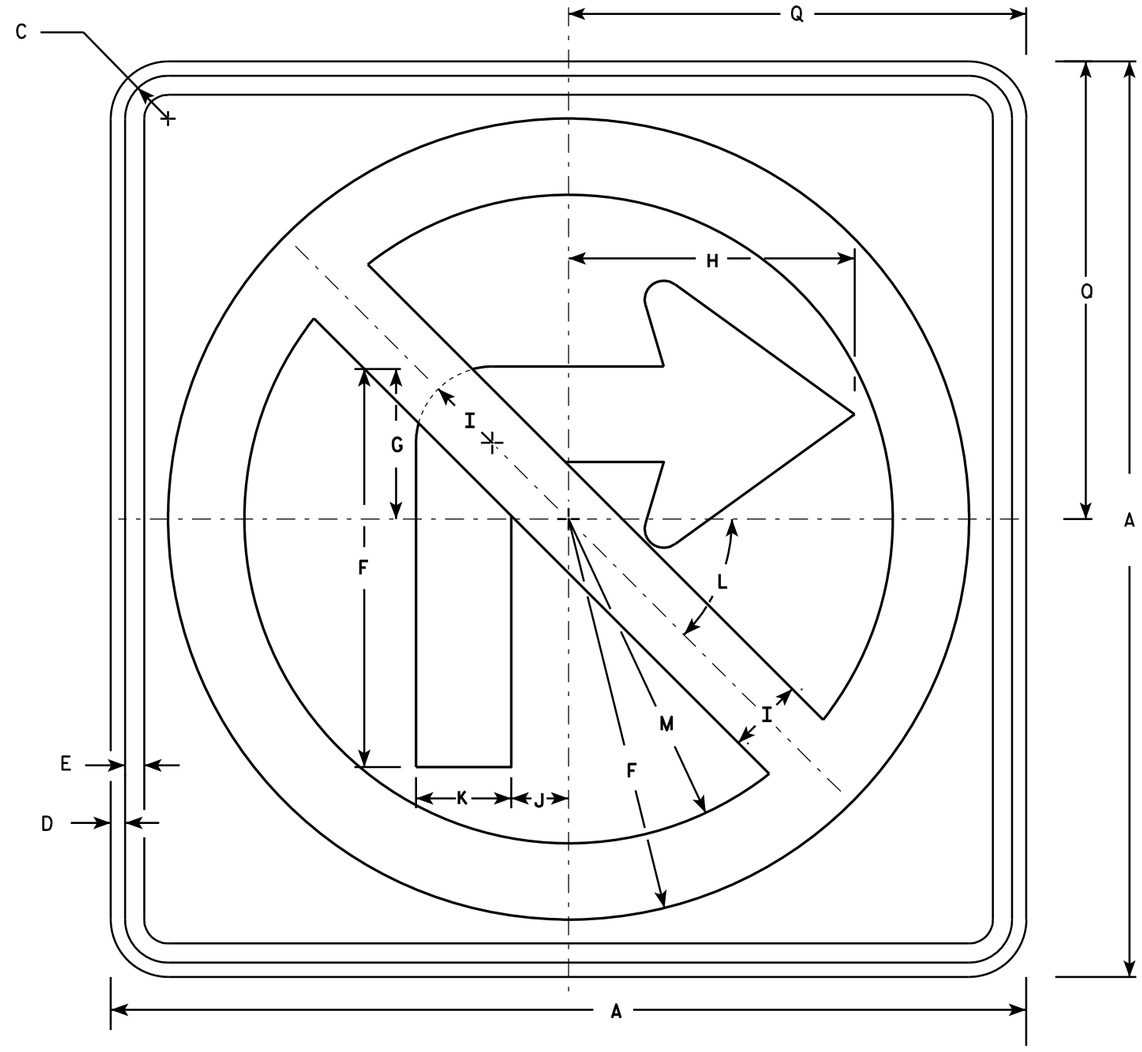
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 294 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000

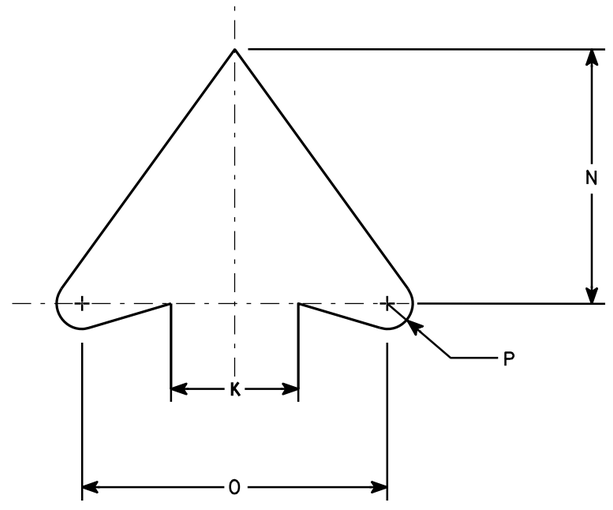
WISDOT/CADDS SHEET 42



R3-1

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 - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

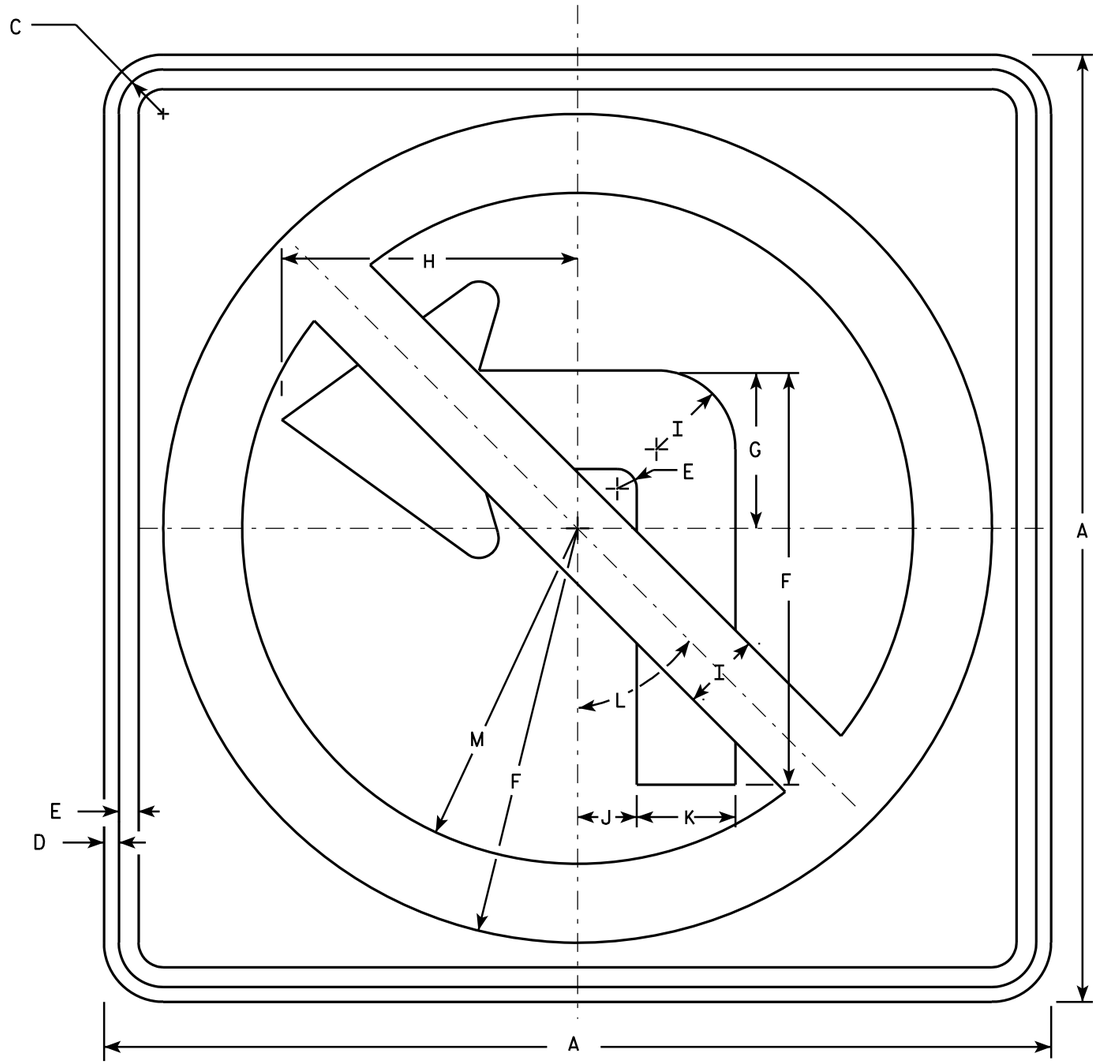
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

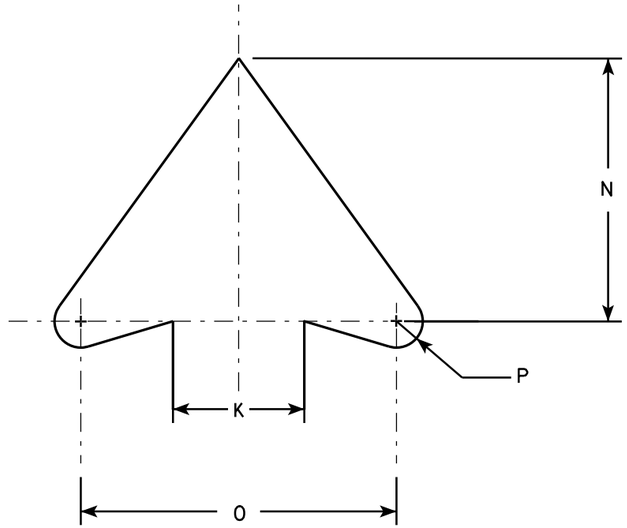
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 295	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

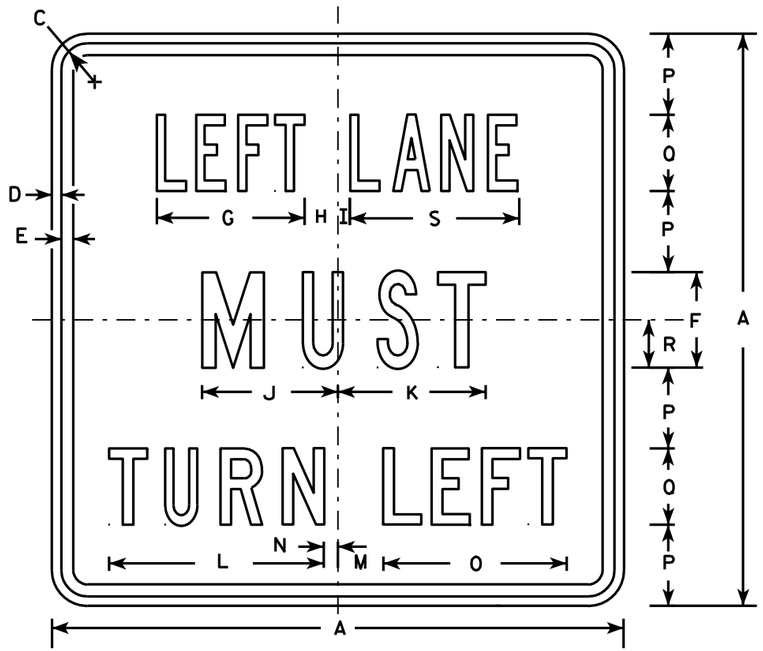
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

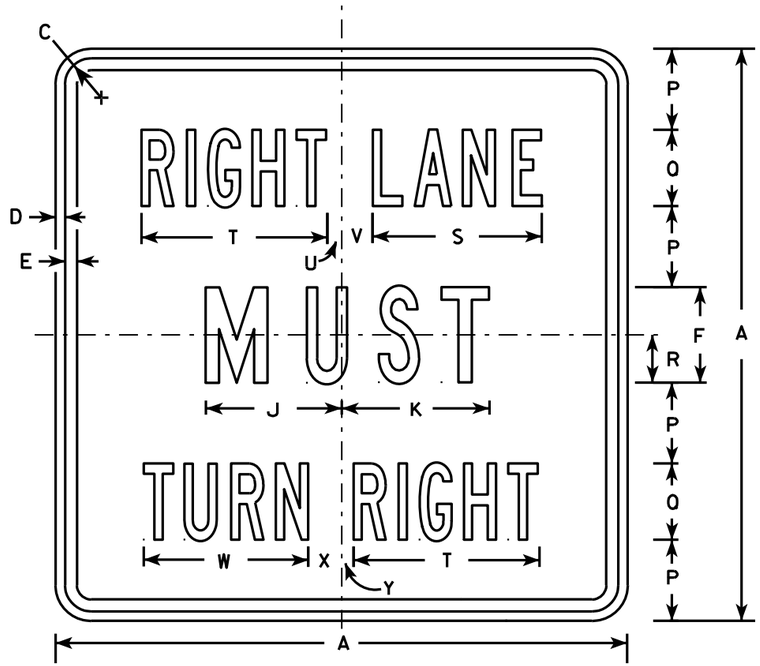
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 296	E



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

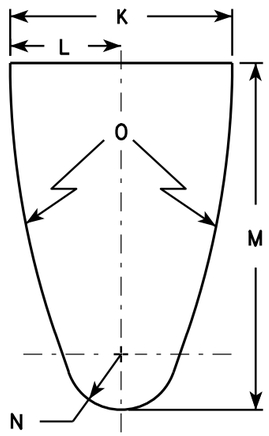
STANDARD SIGN
R3-7L & R3-7R

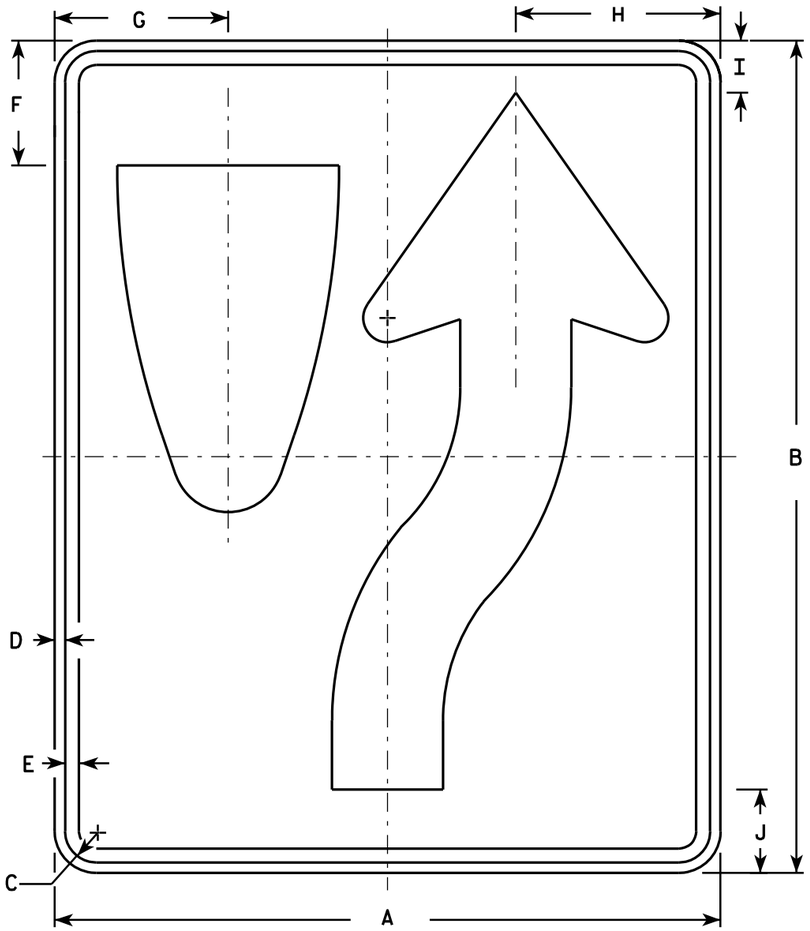
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 297 | E

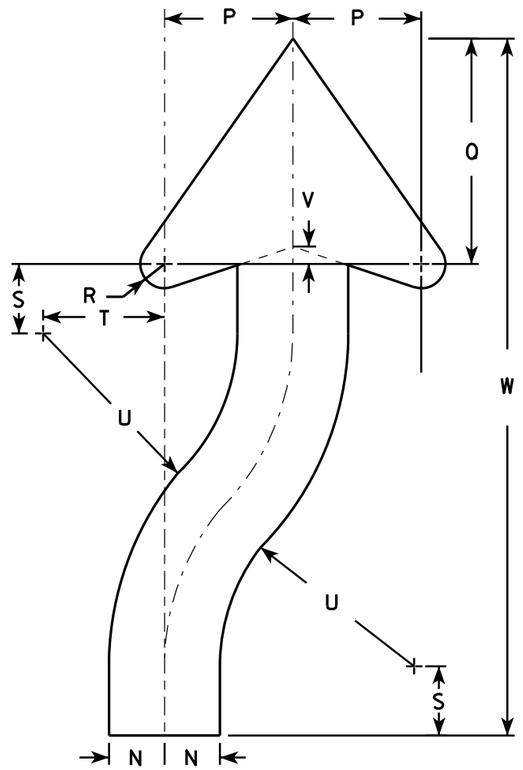




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

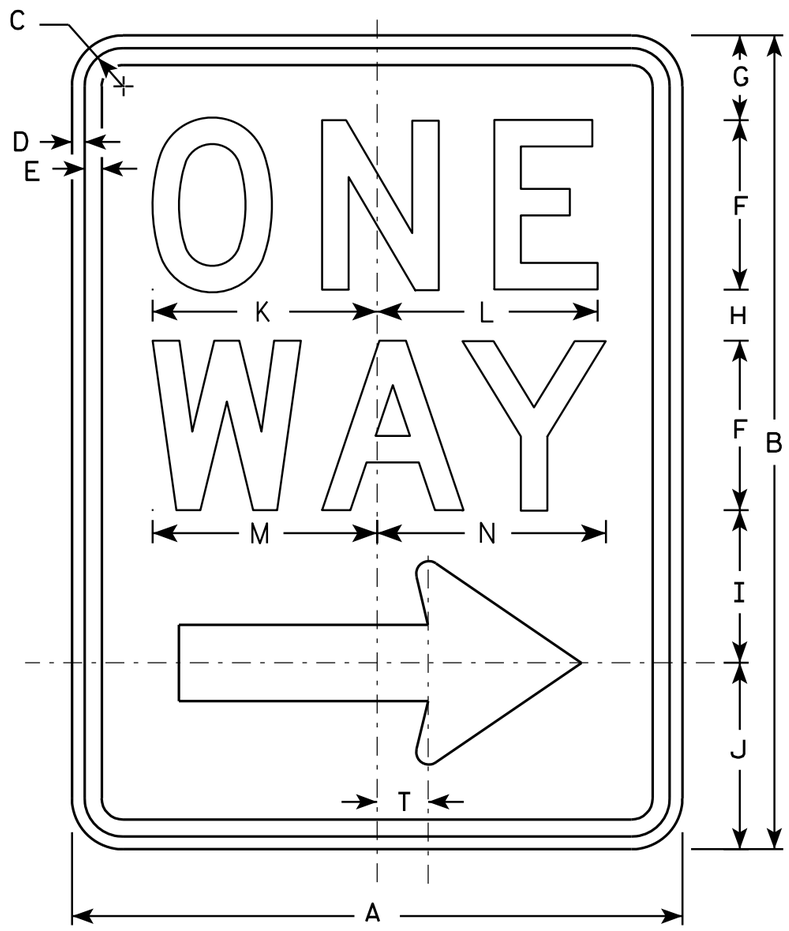
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

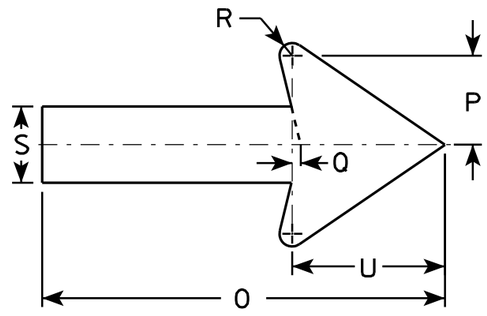
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 298	E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

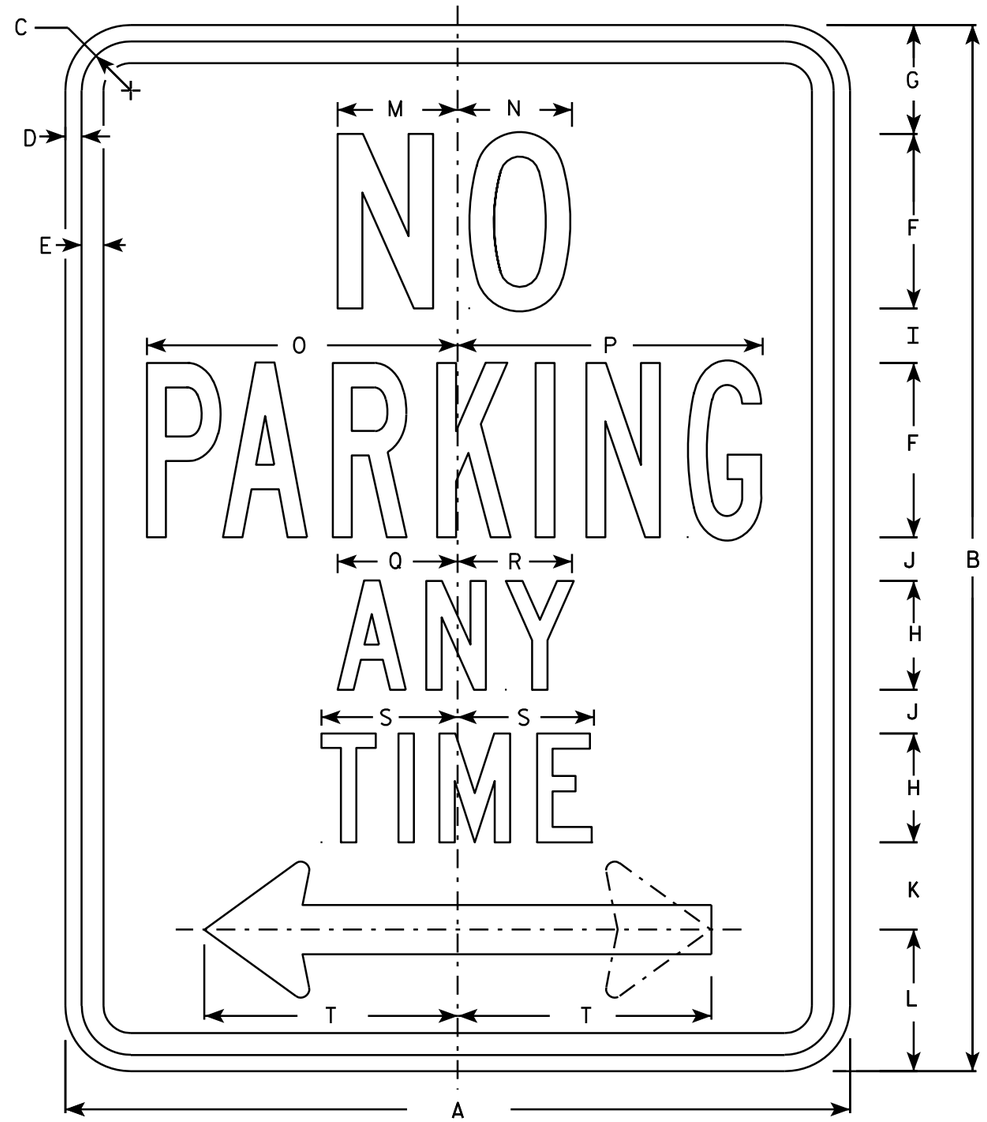
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

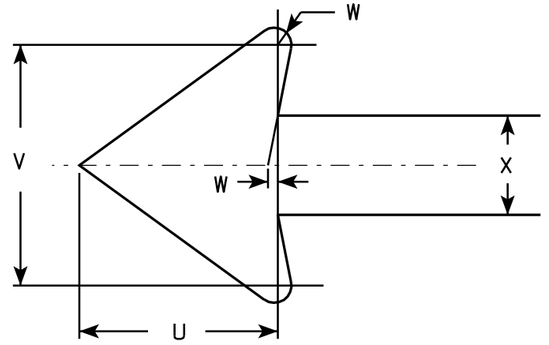
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 299	E



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

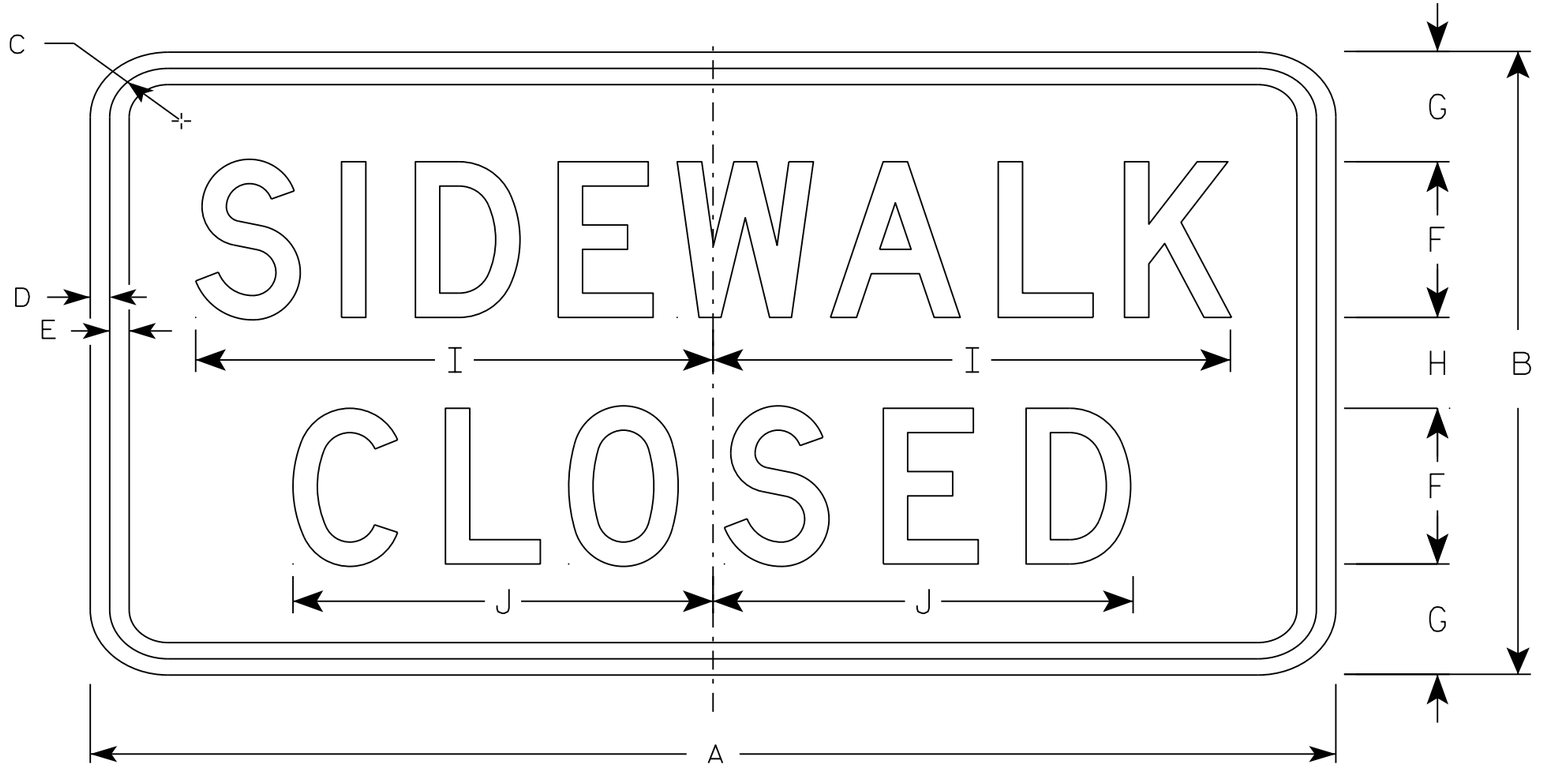
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 300	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



R9-9

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - 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. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

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	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

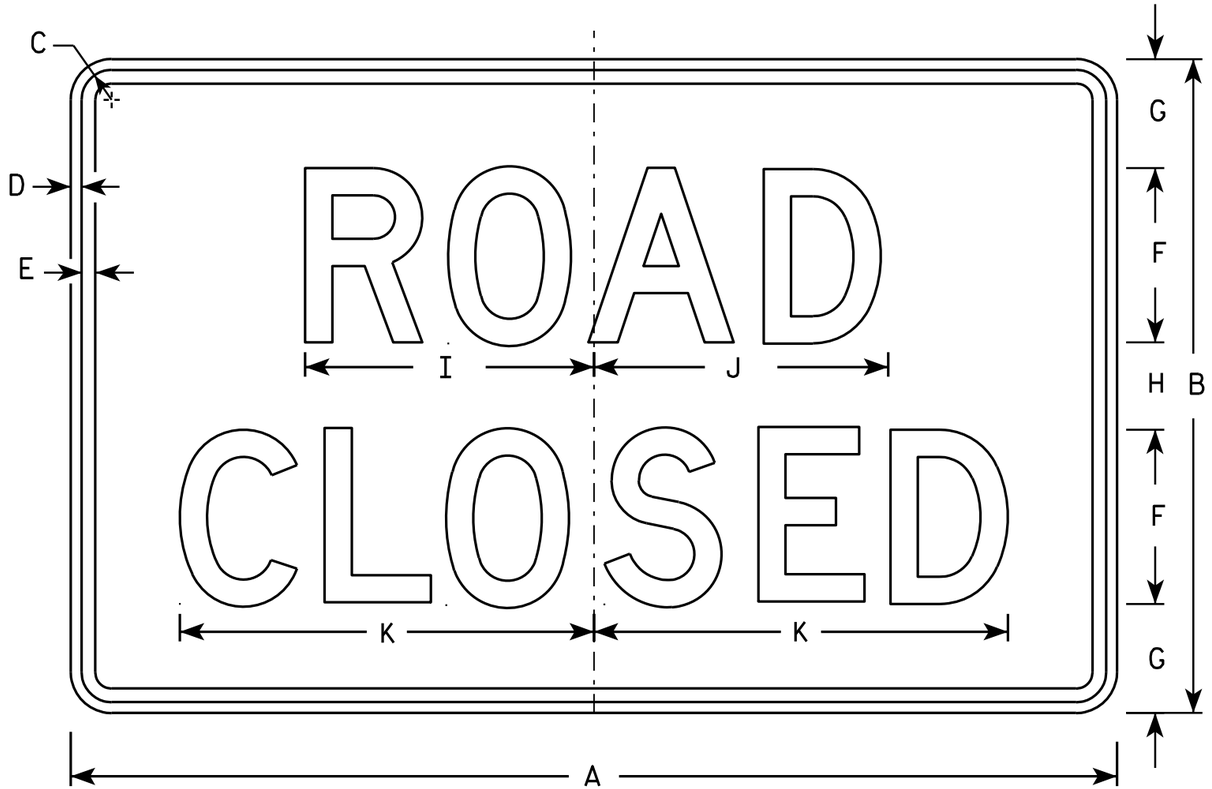
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/11/16 PLATE 301 R9-9.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

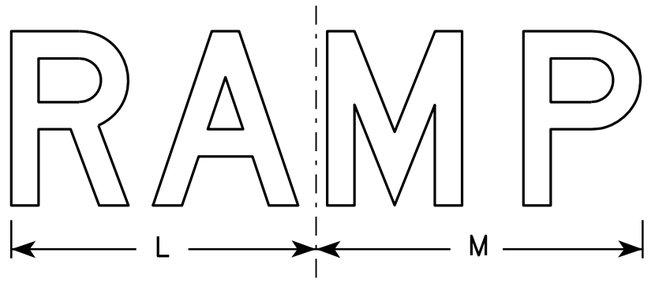
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000



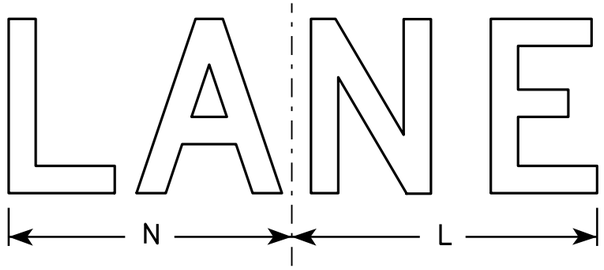
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

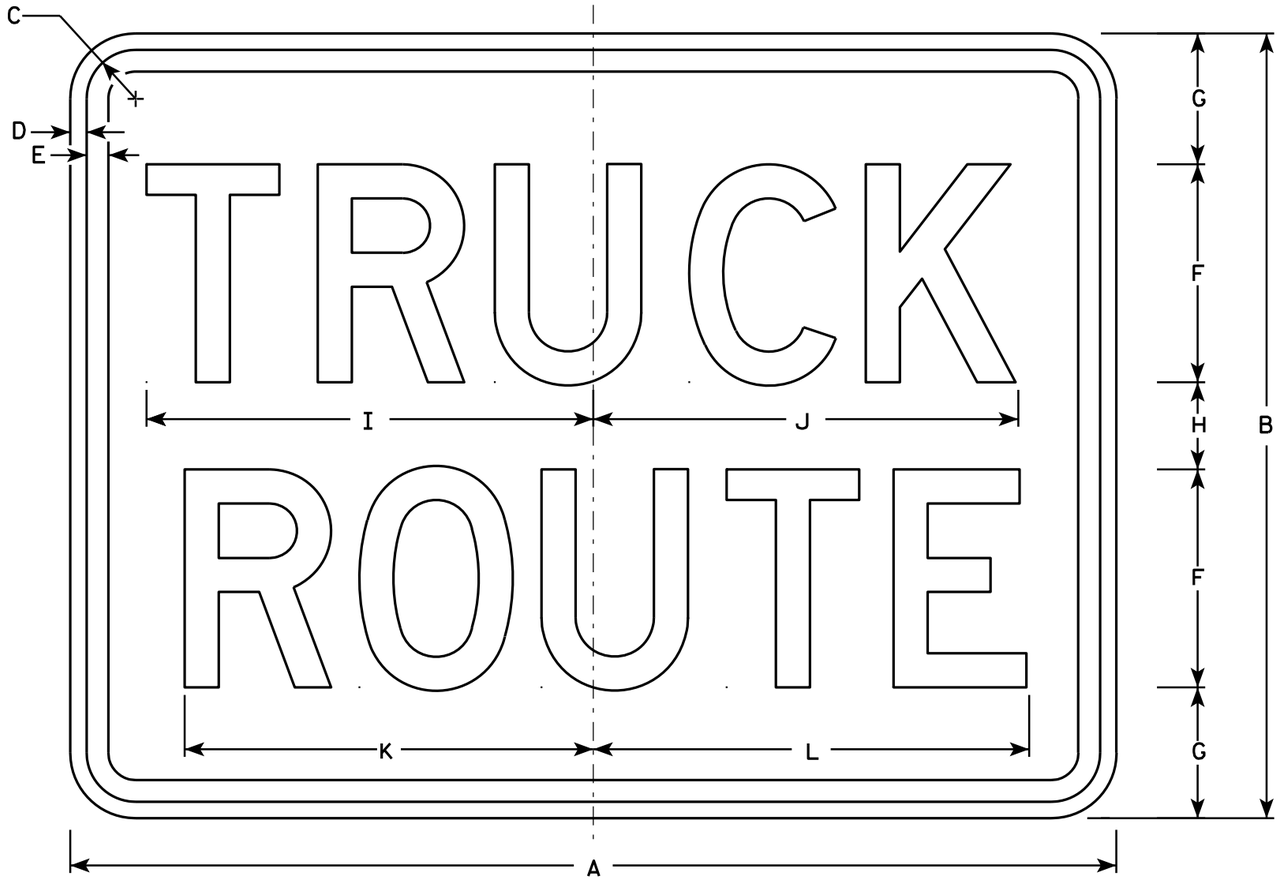
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 302	E



R14-1

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 - 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																											
2	24	18	1 1/8	3/8	1/2	5	3	2	10 1/4	9 3/4	9 3/8	10															3.0
2	24	18	1 1/8	3/8	1/2	5	3	2	10 1/4	9 3/4	9 3/8	10															3.0
3	30	24	1 1/8	3/8	1/2	6	4	4	12 1/4	11 3/4	11 1/4	12															5.0
4																											
5																											

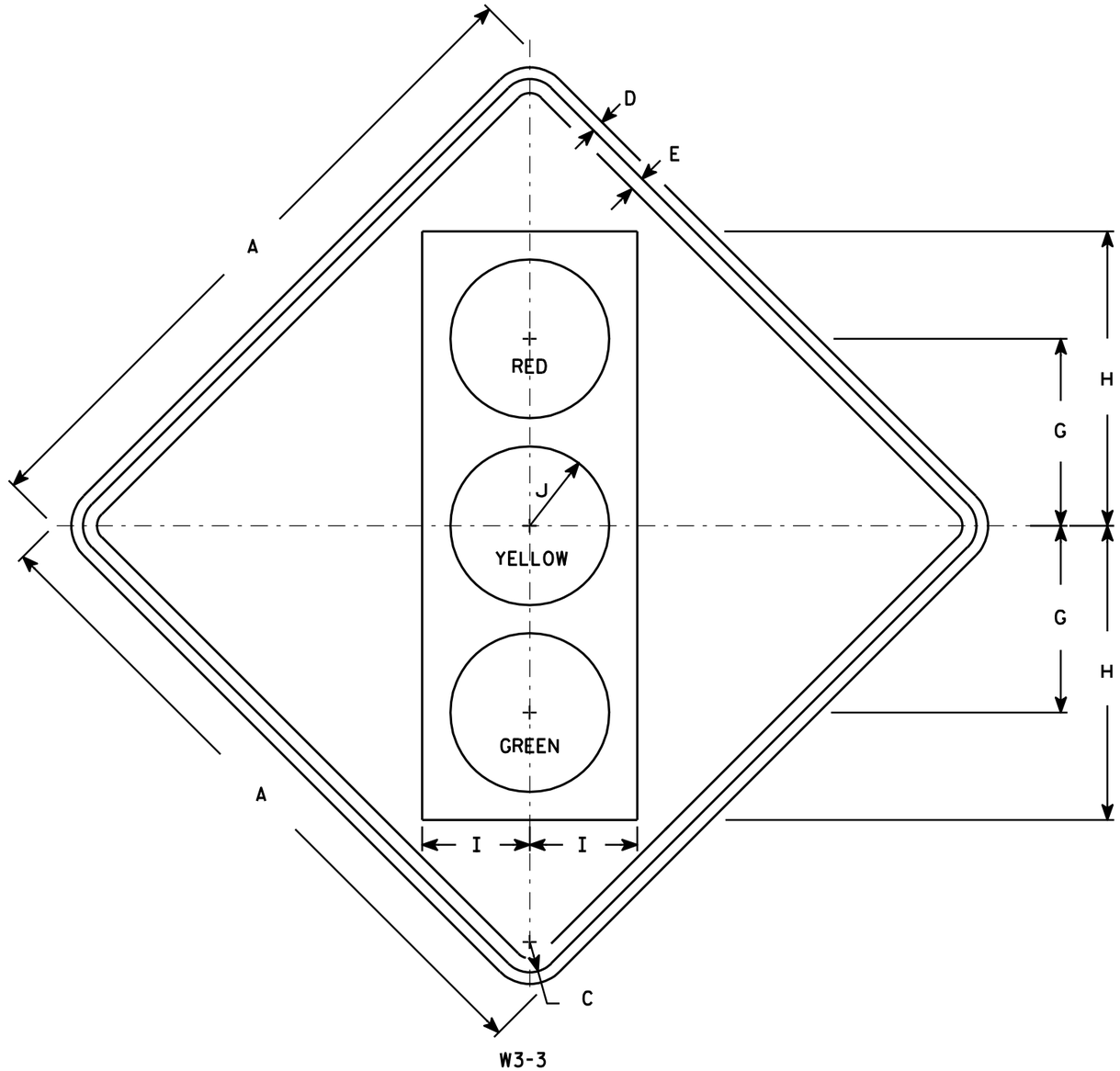
STANDARD SIGN
R14-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R14-1.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 303	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

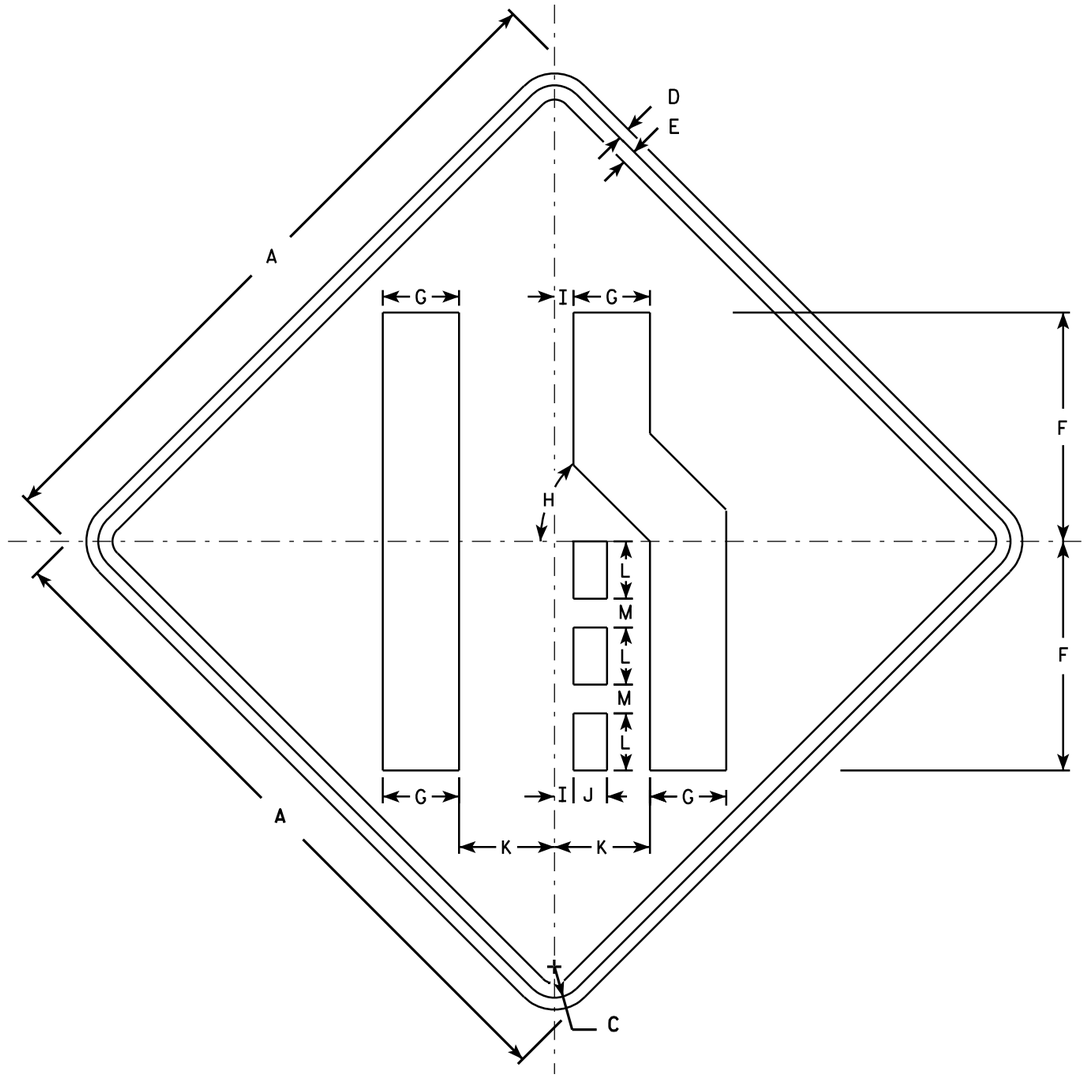
STANDARD SIGN
W3-3

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: 304 | E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

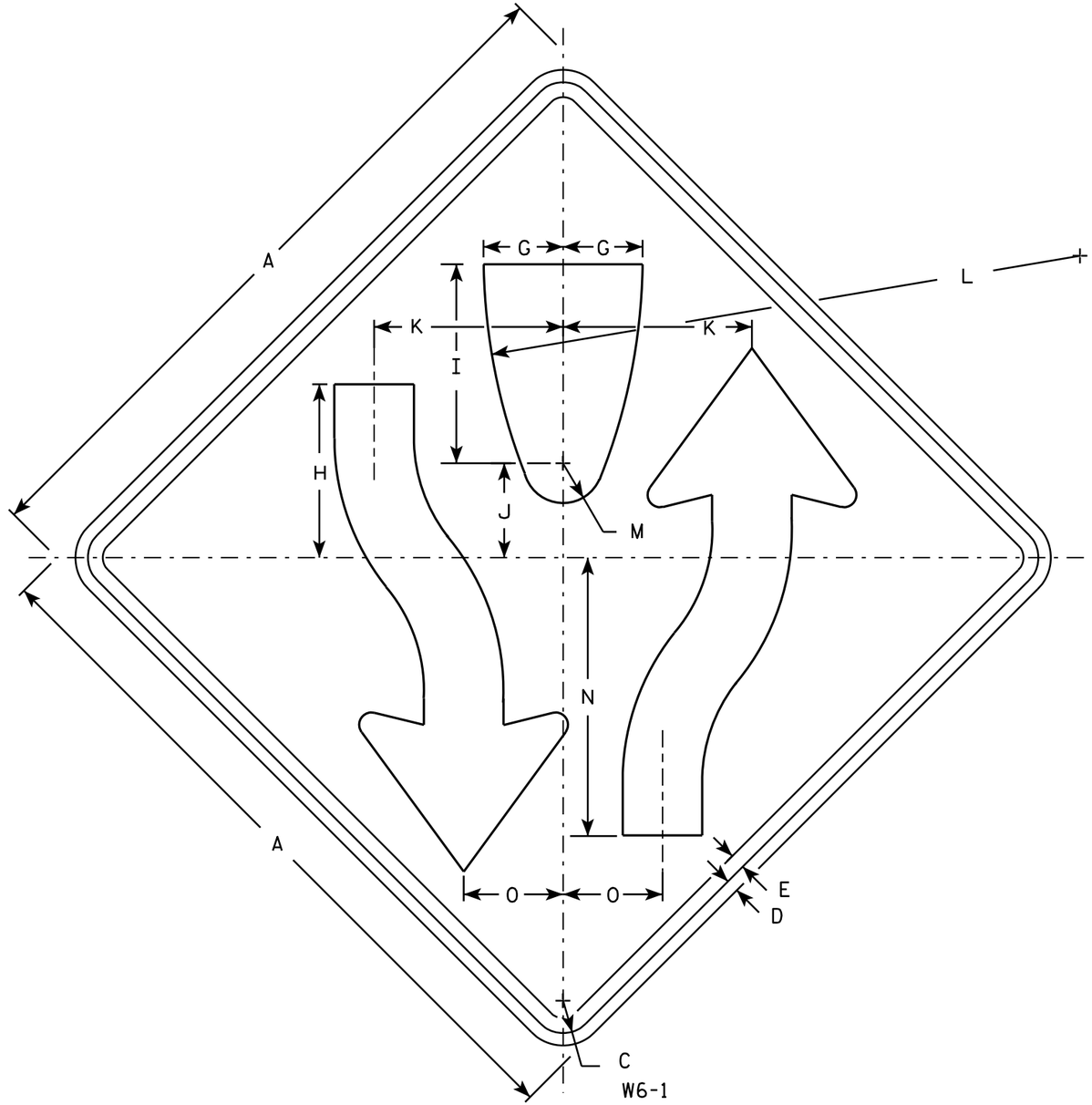
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

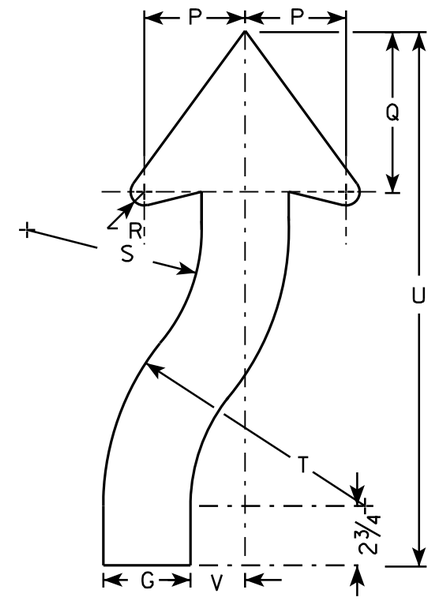
PROJECT NO:

SHEET NO: 305 E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

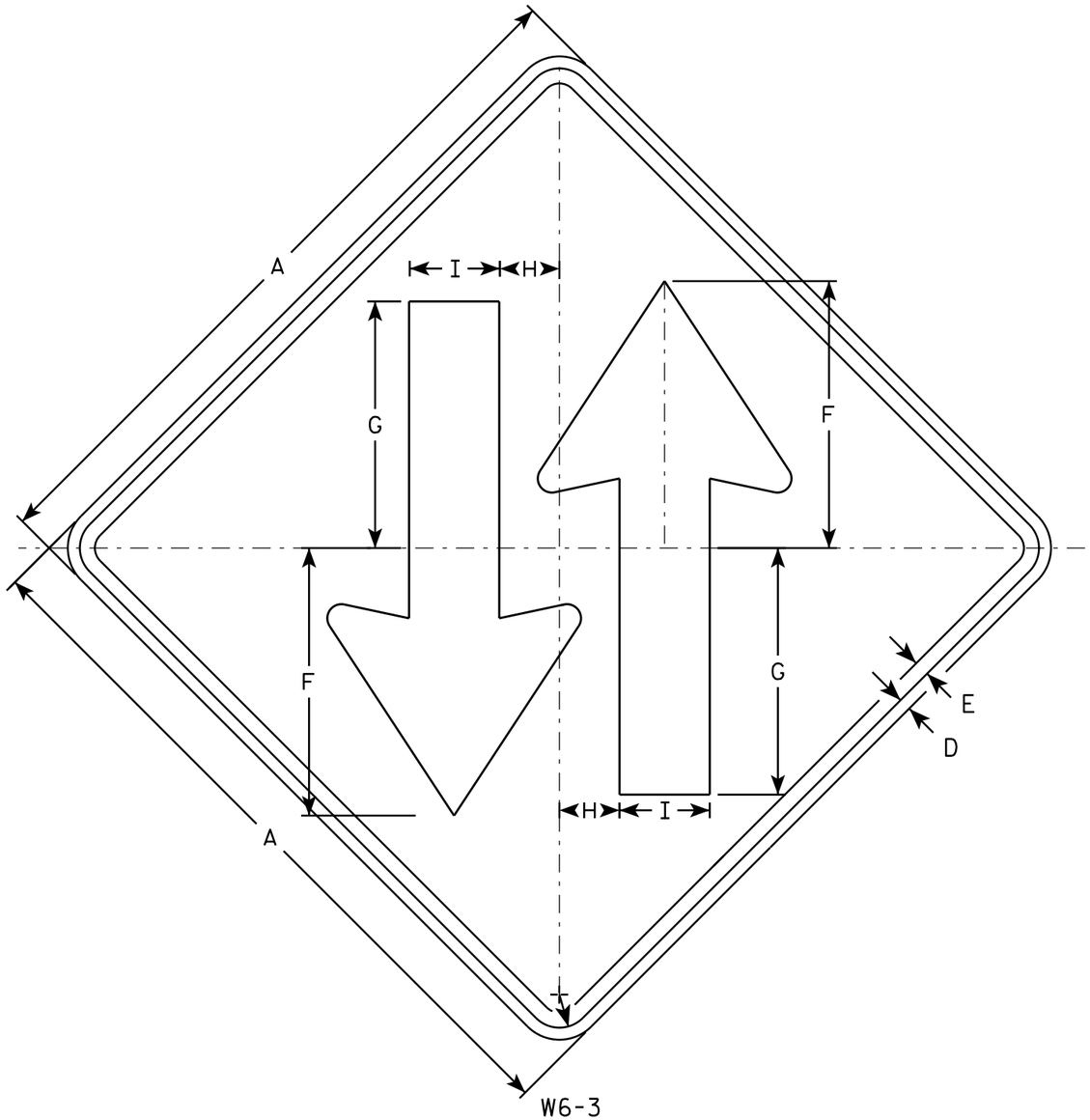
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 306	E

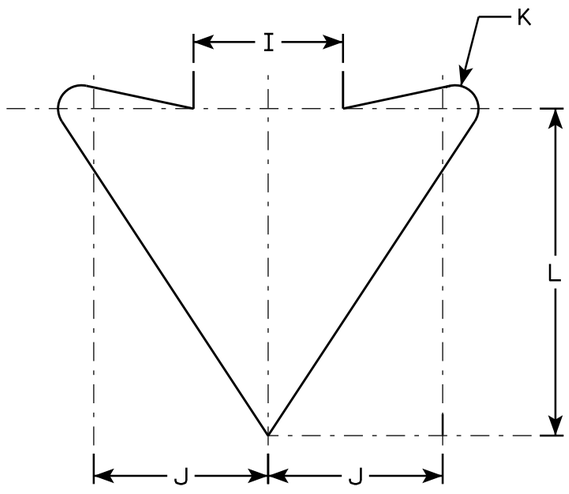
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W61.DGN PLOT DATE : 12-MAR-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946657:1.000000
WISDOT/CADDS SHEET 42



W6-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

STANDARD SIGN
W6-3

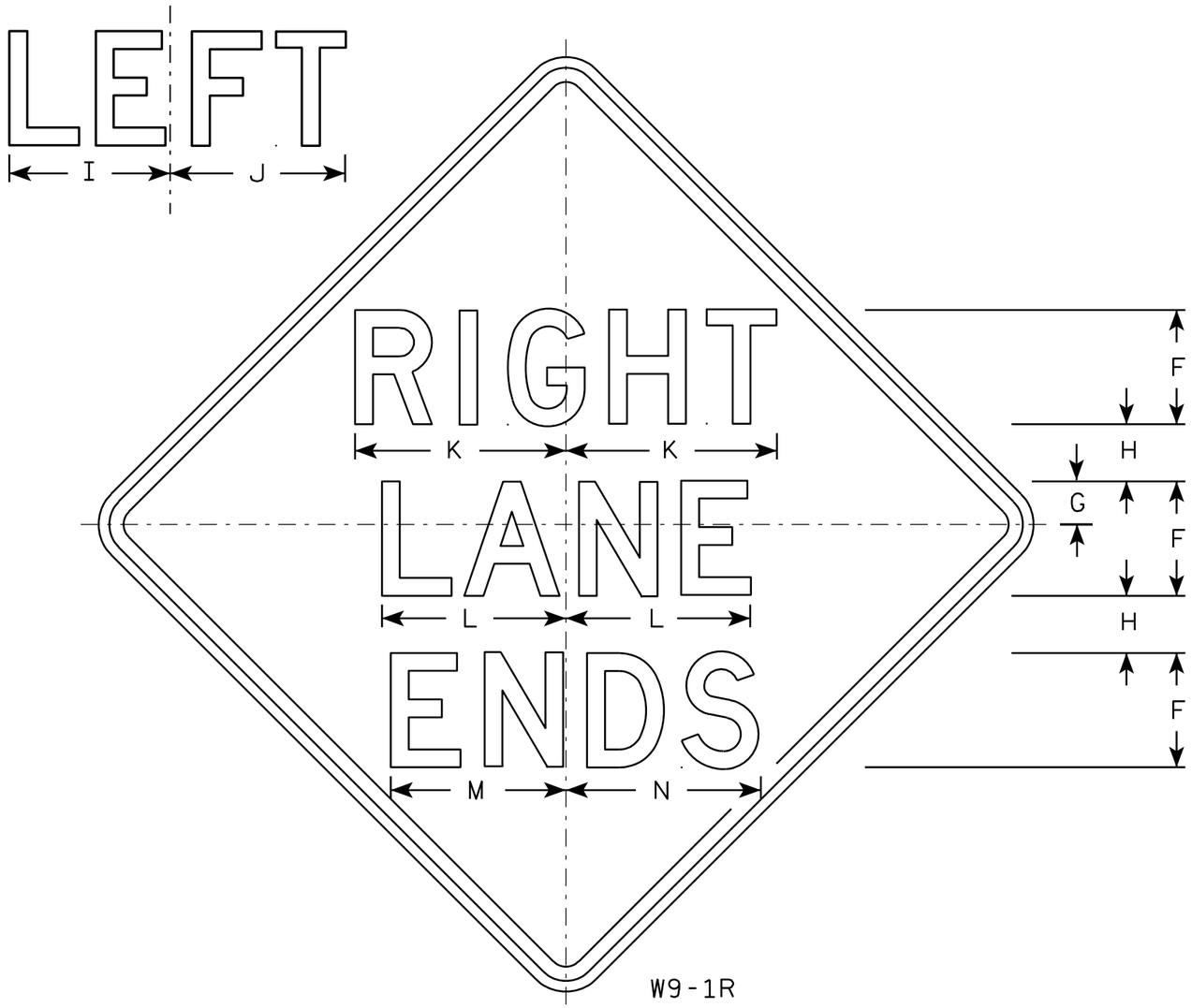
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE W6-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W63.DGN PLOT DATE : 10-MAR-2016 14:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000
WISDOT/CADDS SHEET 42



W9-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. W9-1L same as W9-1R except the word Left replaces Right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

STANDARD SIGN
W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 03/18/13 PLATE NO. W9-1.8

PROJECT NO:

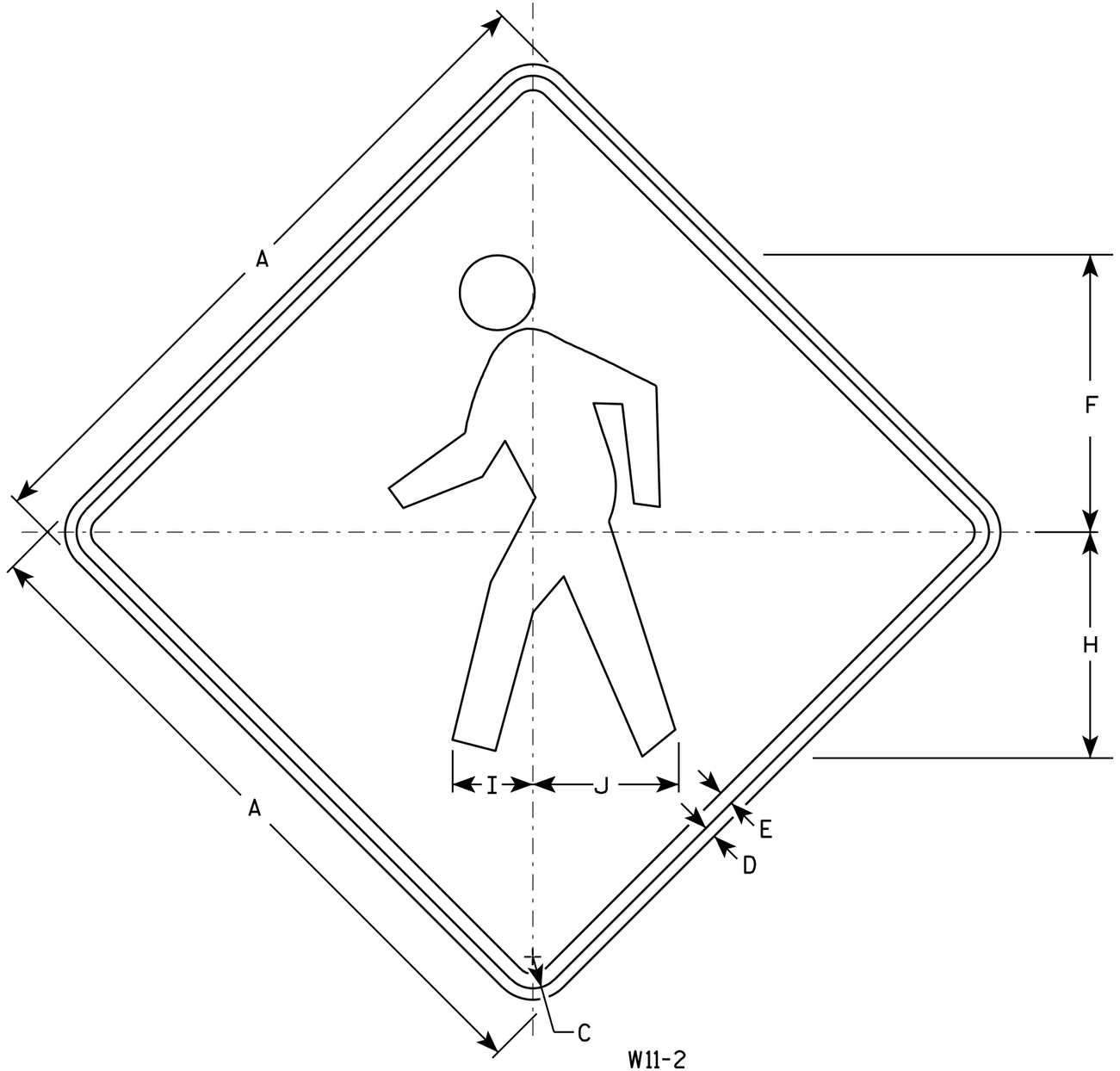
SHEET NO: 308 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W91.DGN PLOT DATE : 18-MAR-2013 11:42 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

7



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																											

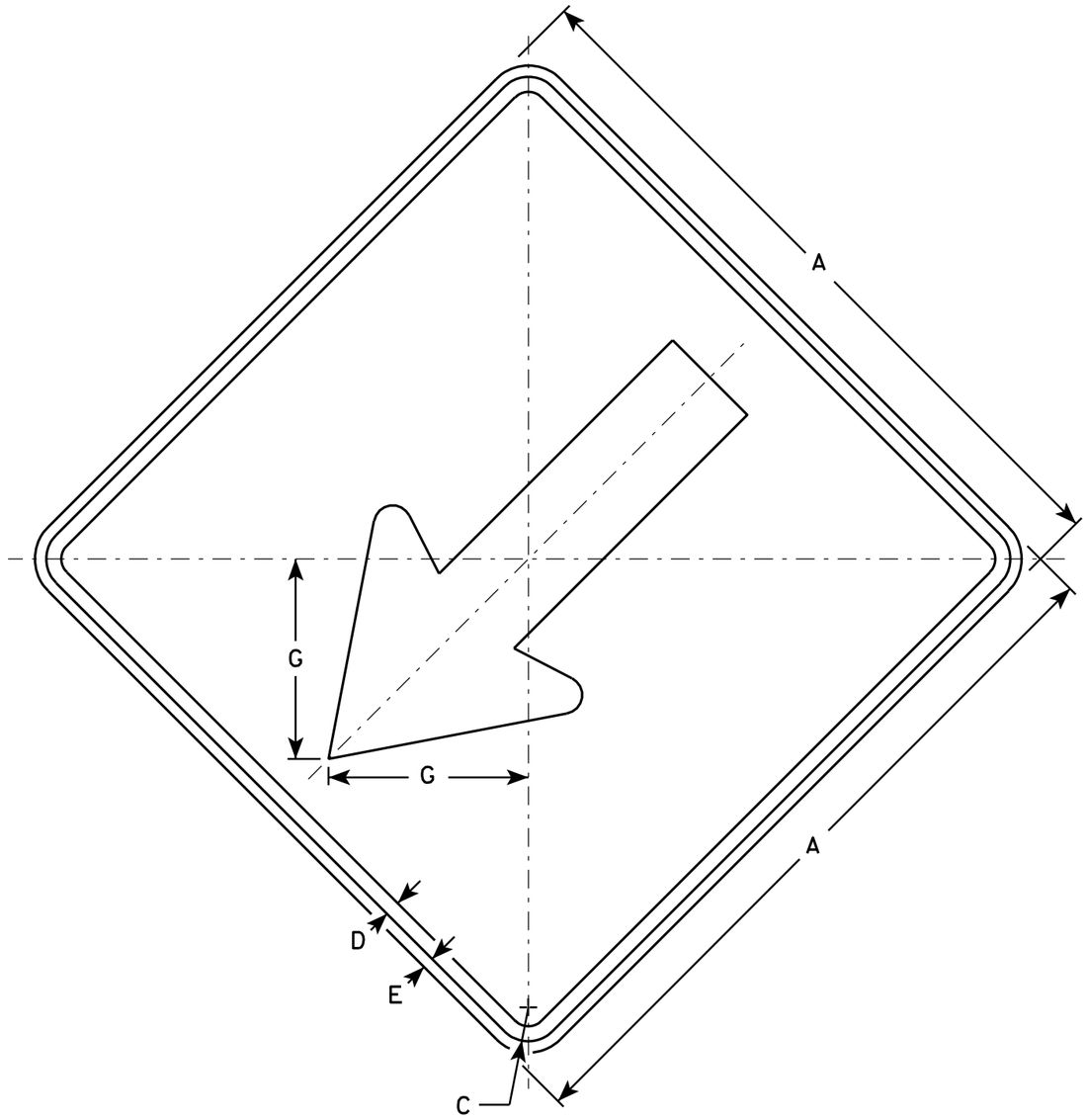
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W11-2.7

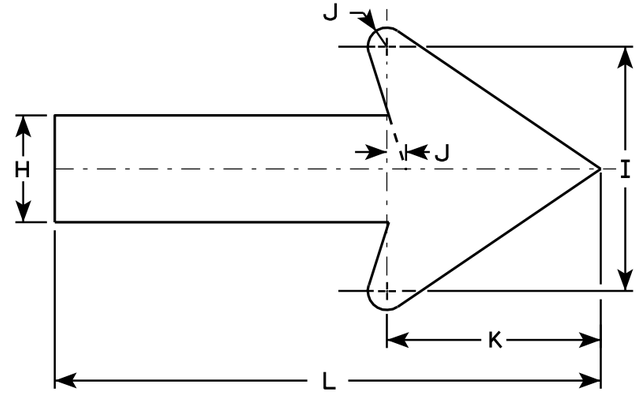
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 309	E



W12-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		6 5/8	3 1/2	8	5/8	7	18															4
2M	24		1 1/8	1/2	3/8		6 5/8	3 1/2	8	5/8	7	18															4
3	30		1 3/8	5/8	1/2		8 1/4	4 3/8	10	3/4	8 3/4	22 3/8															6.25
4	36		1 3/4	3/4	5/8		10 3/8	5 1/2	12 1/2	1	11	27 7/8															9.0
5	48		2 1/4	3/4	1		12 1/2	6 5/8	15	1 1/4	13 1/4	33 1/2															16

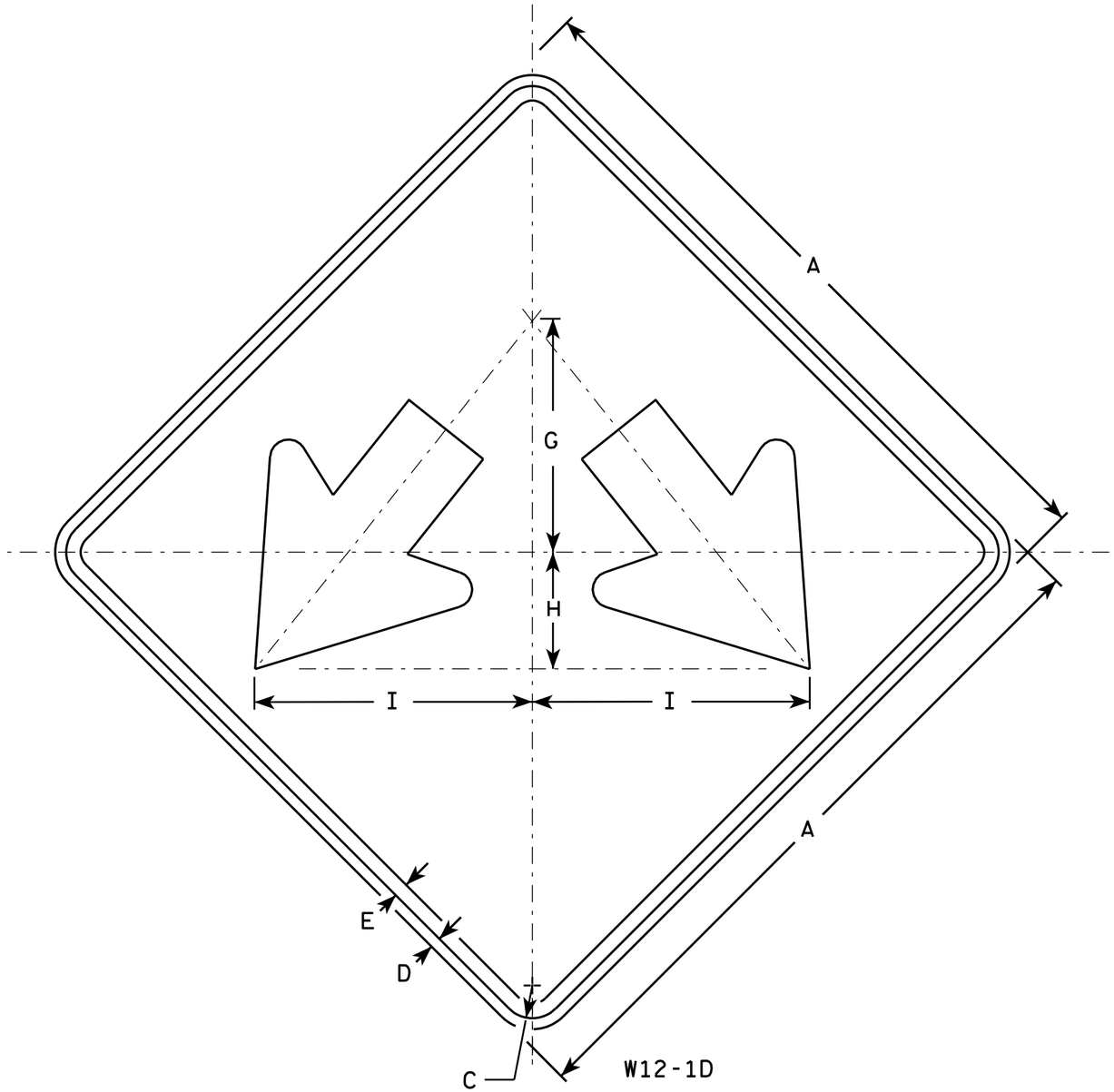
STANDARD SIGN
W12-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

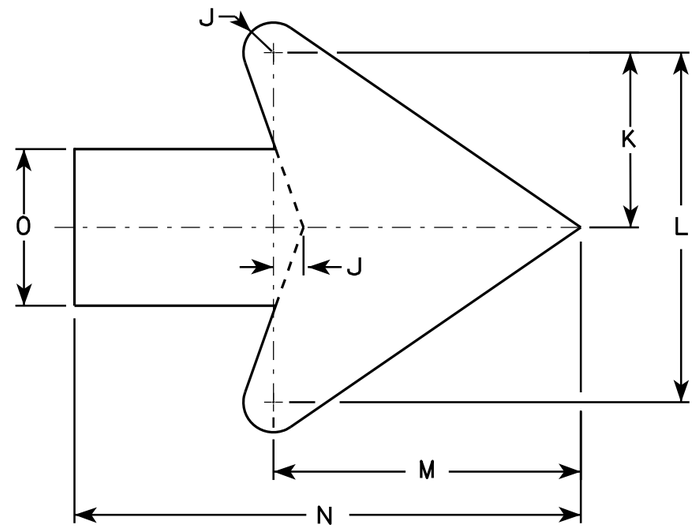
DATE 3/13/13 PLATE NO. W12-1.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 310 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

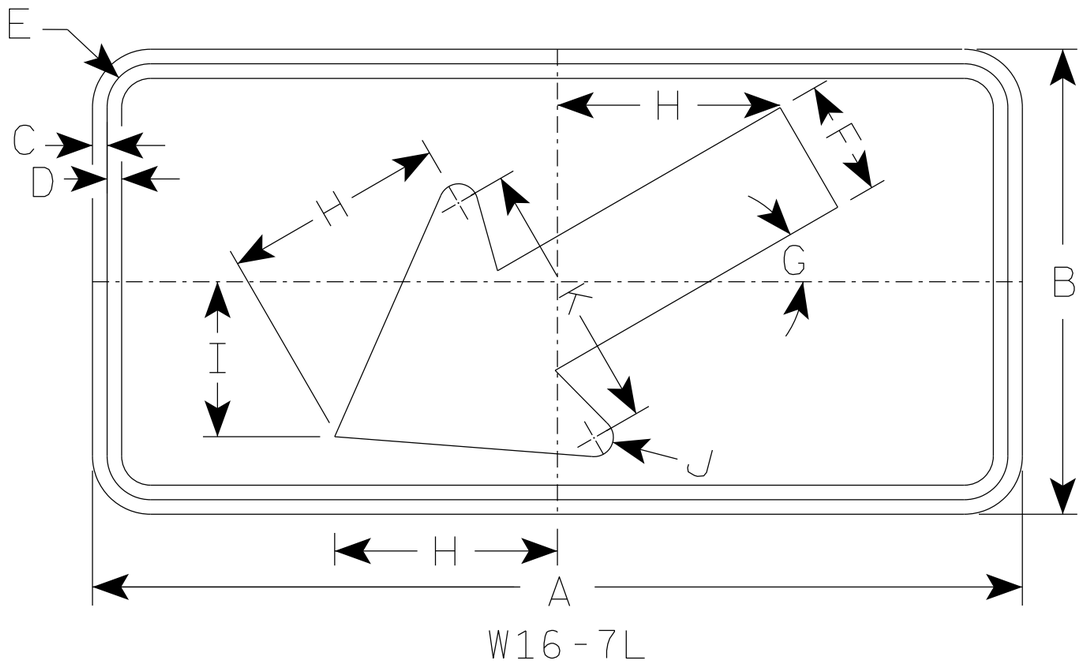
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 311	E



W16-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. 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	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8.0
5																											

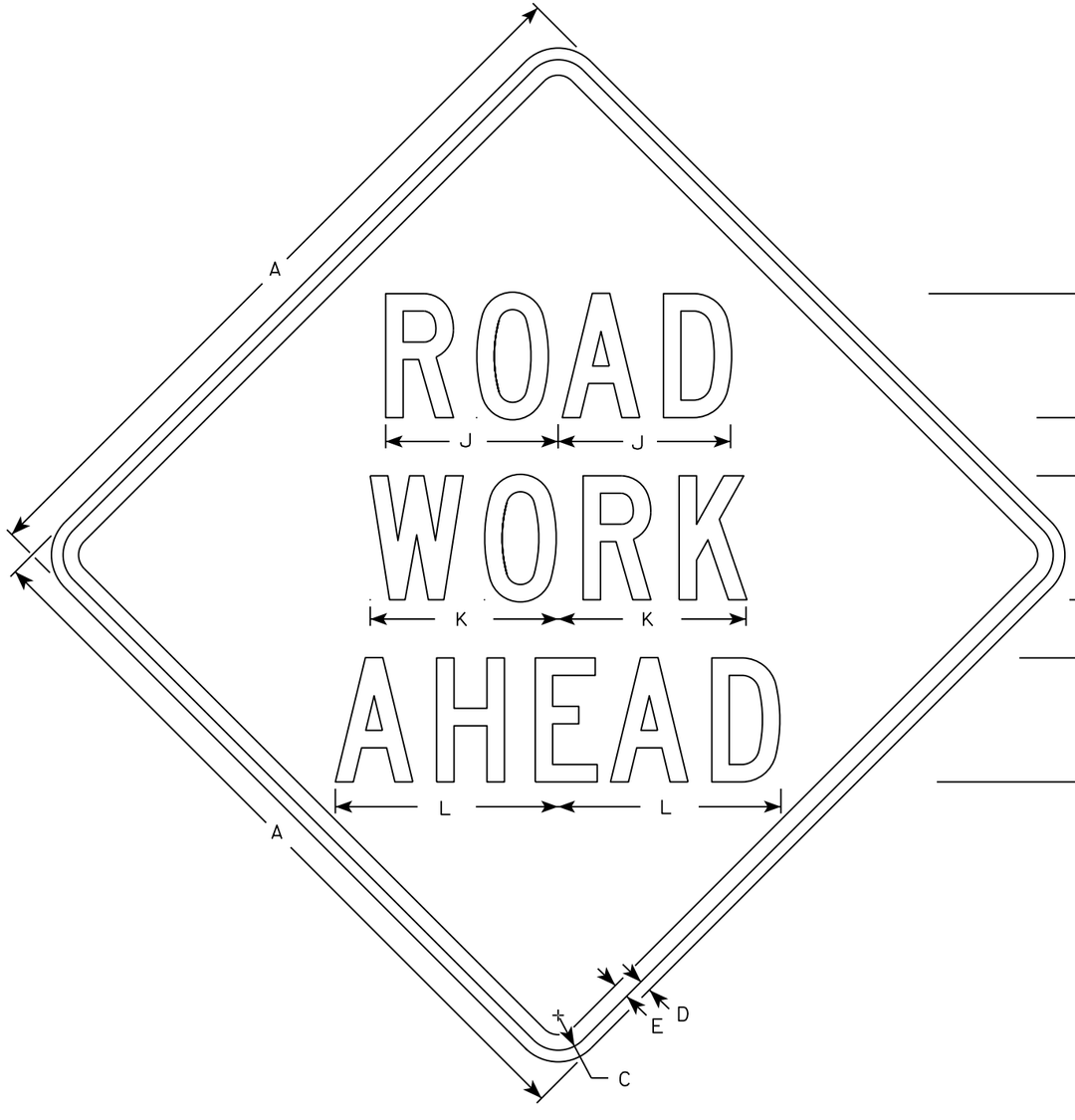
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

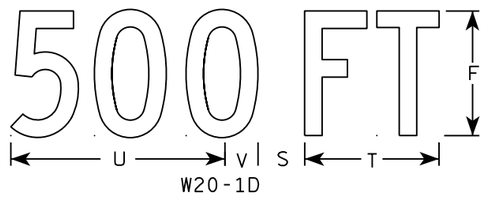
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 7/11/18 PLATE NO. W16-7.6

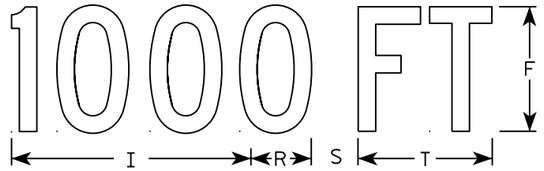
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 312 | E



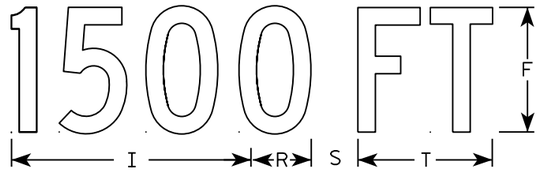
W20-1A



W20-1D

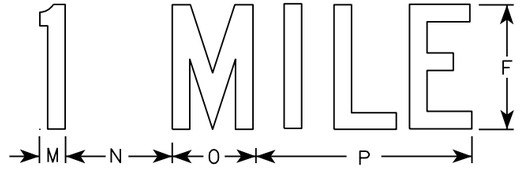


W20-1C

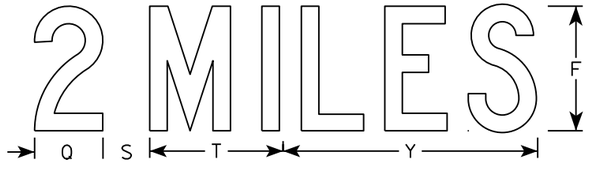


W20-1B

W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

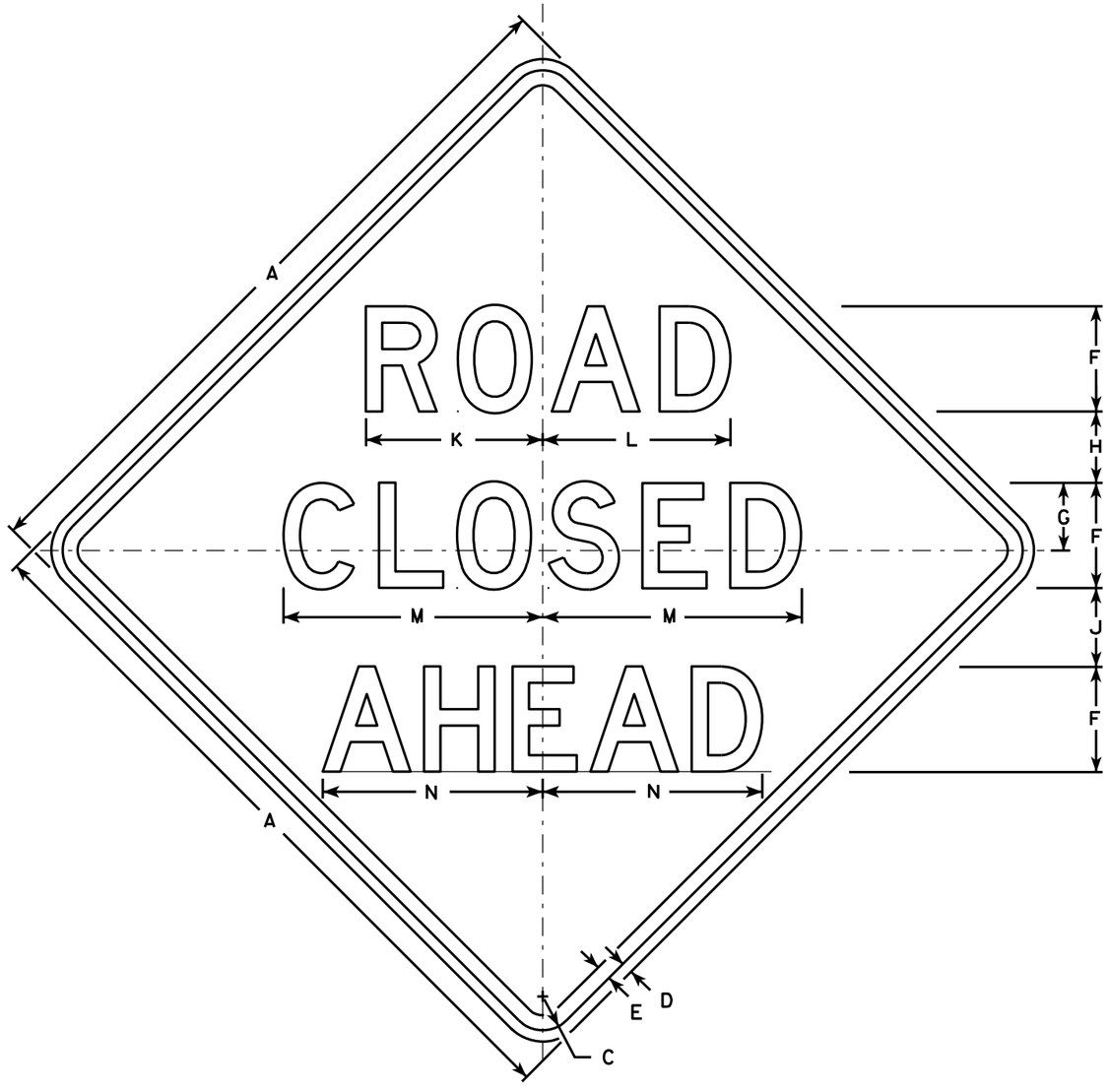
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

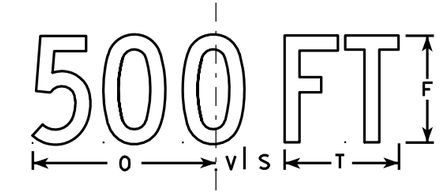
PROJECT NO:

SHEET NO: E

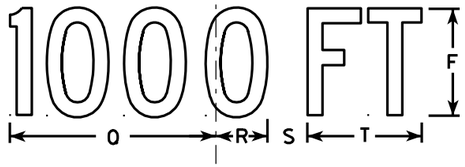
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



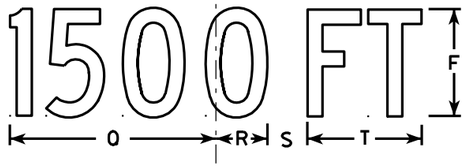
W20-3A



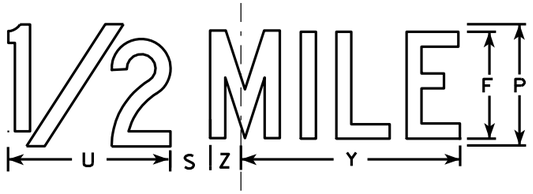
W20-3D



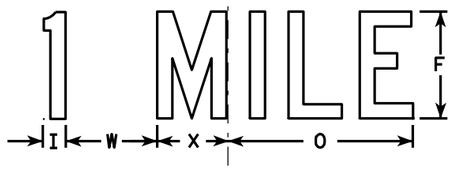
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

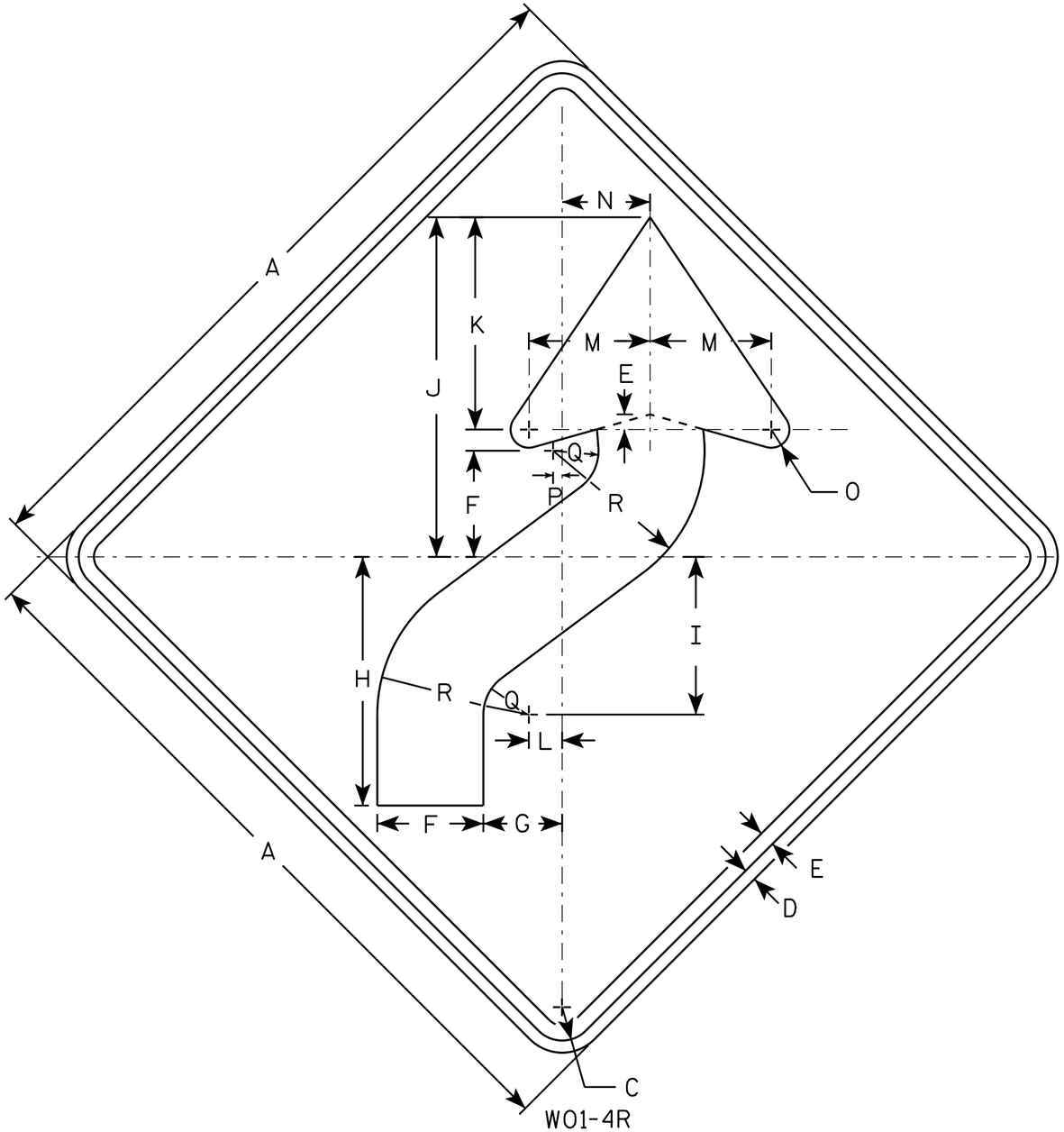
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 314 | E



W01-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
W01-4

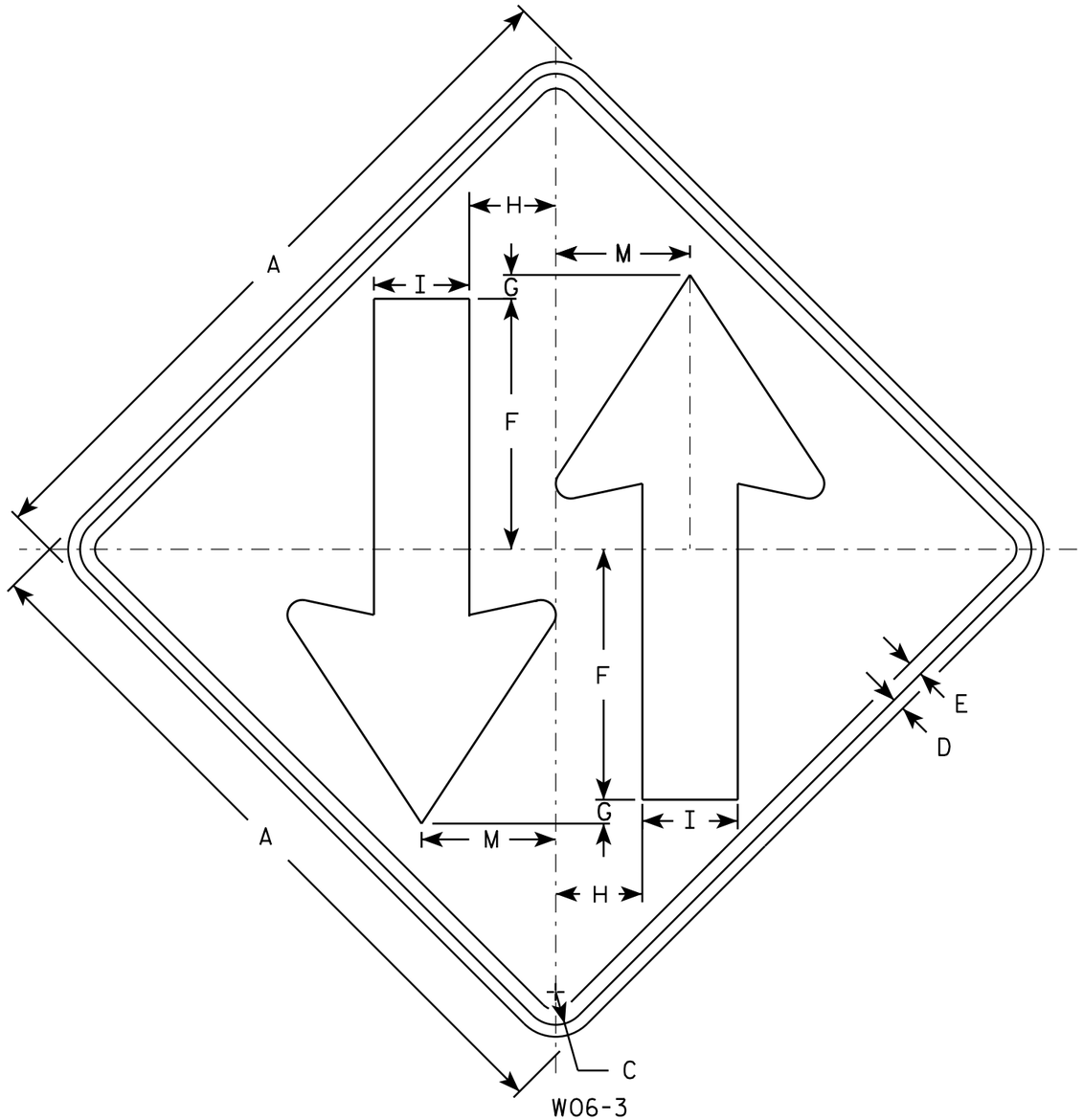
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-4.1

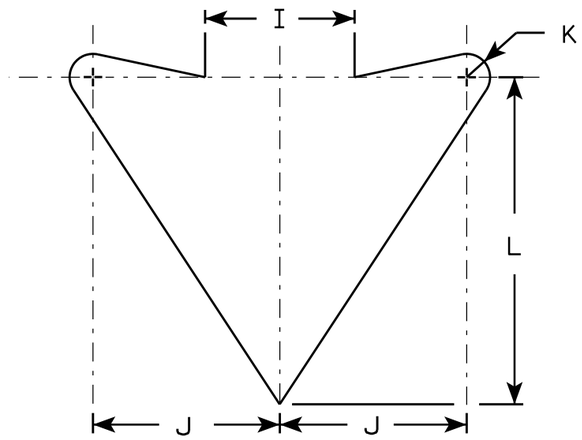
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000 WISDOT/CADDS SHEET 42



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2S	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
2M	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
3	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

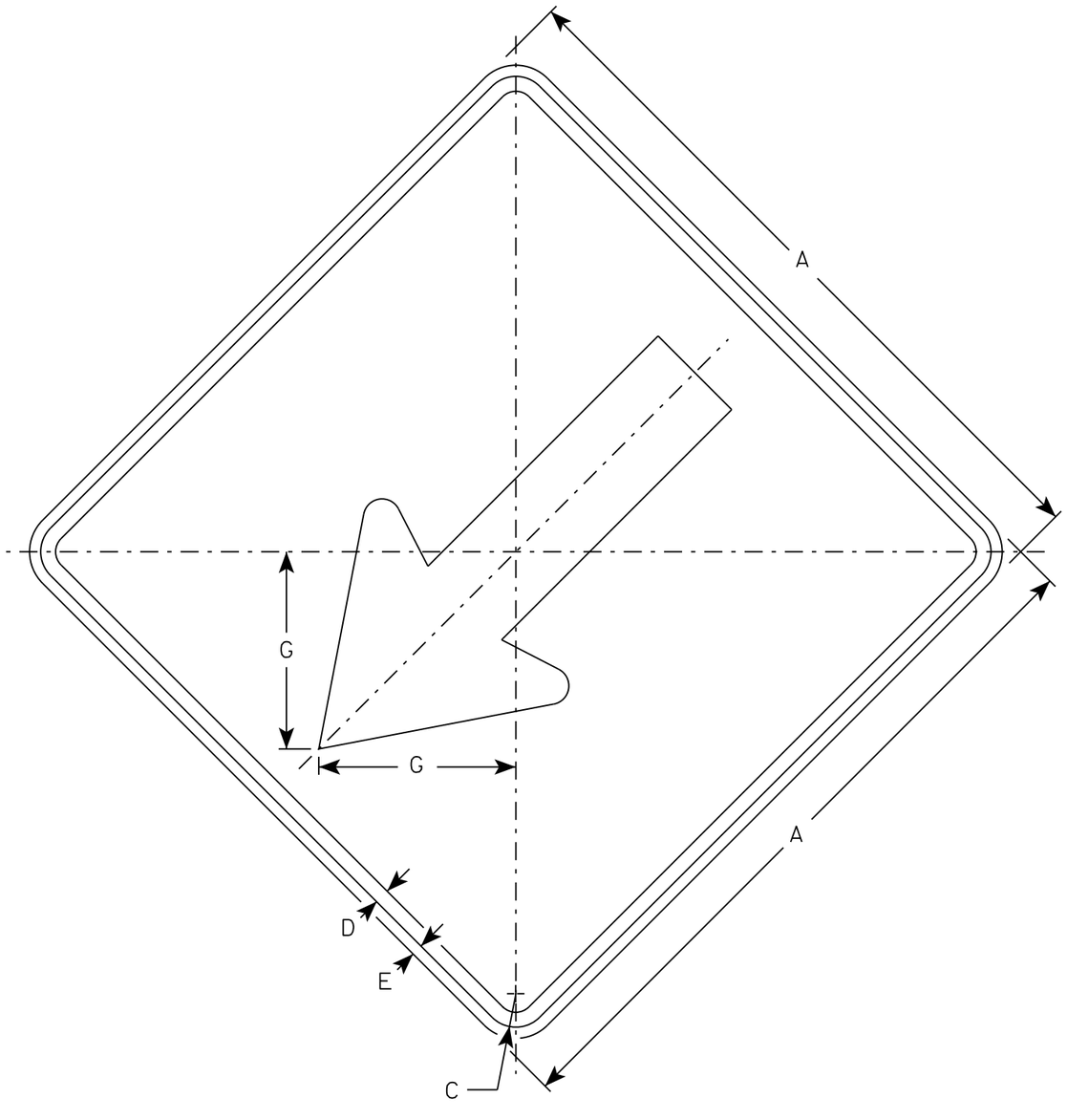
STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 316 W06-3.1

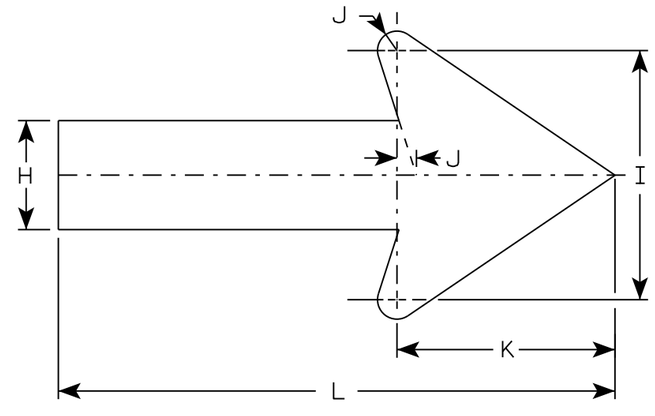
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



WO12-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	1/2	3/8		6 5/8	3 1/2	8	5/8	7	18															4
2S	24		1 1/8	1/2	3/8		6 5/8	3 1/2	8	5/8	7	18															4
2M	24		1 1/8	1/2	3/8		6 5/8	3 1/2	8	5/8	7	18															4
3	30		1 3/8	5/8	1/2		8 1/4	4 3/8	10	3/4	8 3/4	22 3/8															6.25
4	36		1 3/4	3/4	5/8		10 3/8	5 1/2	12 1/2	1	11	27 7/8															9.0
5	36		1 3/4	3/4	5/8		10 3/8	5 1/2	12 1/2	1	11	27 7/8															9.0

STANDARD SIGN
WO12-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 7/26/16 PLA 317 WO12-1.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\WO121.DGN PLOT DATE : 11-AUG-2016 11:29 PLOT BY : ** plotuser ** PLOT NAME : PLOT SCALE : 4.864607:1.000000

STAGE 1 EARTHWORK (WB STA 43+00 - STA 44+75 & STA 45+25 - STA 55+25)

STATION	DISTANCE (LF)	AREA CUT (SF)	AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME FILL (CY)	CUMULATIVE VOLUME CUT FACTOR 1.0 (CY)	CUMULATIVE VOLUME EXPANDED FILL FACTOR 1.2 (CY)	MASS ORD. (CY)
43+00	25	2.0	0.0	0	0	0	0	0
43+25	25	2.8	0.0	2	0	2	0	2
43+50	25	4.1	0.0	3	0	5	0	5
43+75	25	4.5	0.0	4	0	9	0	9
44+00	25	5.1	0.0	4	0	14	0	14
44+25	25	5.8	0.0	5	0	19	0	19
44+50	25	6.5	0.0	6	0	25	0	25
44+75	25	7.6	0.0	7	0	31	0	31
45+75	25	6.4	0.0	6	0	38	0	38
46+00	25	7.7	0.0	7	0	44	0	44
46+25	25	7.7	0.0	7	0	51	0	51
46+50	25	7.7	0.0	7	0	58	0	58
46+75	25	7.7	0.0	7	0	66	0	0
47+00	25	7.4	0.0	7	0	73	0	73
47+25	25	7.3	0.0	7	0	79	0	79
47+50	25	7.2	0.0	7	0	86	0	86
47+75	25	7.1	0.0	7	0	93	0	93
48+00	25	7.9	0.0	7	0	100	0	100
48+25	25	8.3	0.0	8	0	107	0	107
48+50	25	8.6	0.0	8	0	115	0	115
48+75	25	9.1	0.0	8	0	123	0	123
49+00	25	9.4	0.0	9	0	132	0	132
49+25	25	10.4	0.0	9	0	141	0	141
49+50	25	11.3	0.0	10	0	151	0	151
49+75	25	12.7	0.0	11	0	162	0	162
50+00	25	14.2	0.0	12	0	174	0	174
50+25	25	15.5	0.0	14	0	188	0	188
50+50	25	15.3	0.0	14	0	202	0	202
50+75	25	15.9	0.0	14	0	217	0	217
51+00	25	15.6	0.0	15	0	231	0	231
51+25	25	15.2	0.0	14	0	246	0	246
51+50	25	14.8	0.0	14	0	260	0	260
51+75	25	15.0	0.0	14	0	273	0	273
52+00	25	14.8	0.0	14	0	287	0	287
52+25	25	14.5	0.0	14	0	301	0	301
52+50	25	14.2	0.0	13	0	314	0	314
52+75	25	14.9	0.0	13	0	328	0	328
53+00	25	13.2	0.0	13	0	341	0	341
53+25	25	12.2	0.0	12	0	352	0	352
53+50	25	11.2	0.0	11	0	363	0	363
53+75	25	10.0	0.0	10	0	373	0	373
54+00	25	8.6	0.0	9	0	382	0	382
54+25	25	8.3	0.0	8	0	389	0	389
54+50	25	8.6	0.0	8	0	397	0	397
54+75	25	8.5	0.0	8	0	405	0	405
55+00	25	6.8	0.0	7	0	412	0	412
55+25	25	4.6	0.0	5	0	418	0	418
			STAGE 1 TOTALS	418	0	--	--	--

STAGE 2 MAINLINE EARTHWORK (STA 82+85 - STA 122+00, EASTBOUND)

STATION	DISTANCE (LF)	AREA CUT (SF)	AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME FILL (CY)	CUMULATIVE VOLUME CUT FACTOR 1.0 (CY)	CUMULATIVE VOLUME EXPANDED FILL FACTOR 1.2 (CY)	MASS ORD. (CY)
82+85	15	10.0	1.0	0	0	0	0	0
83+00	25	12.0	3.6	6	1	6	2	5
83+25	25	18.6	2.5	14	2	20	4	17
83+50	25	22.2	3.6	19	2	39	6	34
83+75	25	27.6	3.7	23	2	62	8	54
84+00	25	19.6	10.7	22	4	84	13	71
84+25	25	20.1	9.0	18	5	102	19	83
84+50	25	21.9	7.6	19	5	122	25	97
84+75	25	23.2	7.2	21	4	143	30	113
85+00	25	25.2	6.2	22	4	165	34	131
85+25	25	26.0	6.2	24	3	189	38	150
85+50	25	89.7	3.7	54	3	242	42	201
85+75	25	99.9	2.1	88	2	330	44	287
86+00	25	111.6	1.1	98	1	428	45	383
86+25	25	119.6	0.6	107	0	535	45	490
86+50	25	97.9	5.3	101	2	636	47	589
86+75	25	99.8	6.9	92	3	727	51	676
87+00	25	116.5	0.3	100	2	827	54	774
87+25	25	117.8	4.5	108	1	936	55	881
87+50	25	115.6	0.7	108	1	1044	57	987
87+75	25	104.2	1.2	102	1	1146	58	1088
88+00	25	117.1	0.0	102	0	1248	58	1190
88+25	25	118.7	0.0	109	0	1357	58	1299
88+50	25	143.7	0.2	121	0	1479	58	1421
88+75	25	113.1	7.2	119	2	1598	61	1537
89+00	25	111.5	16.5	104	7	1702	69	1633
89+25	25	109.6	32.5	102	14	1804	85	1719
89+50	25	101.9	70.2	98	29	1902	119	1783
89+75	25	82.5	111.2	85	50	1987	180	1808
90+00	25	88.2	117.9	79	64	2066	256	1810
90+25	25	83.1	131.3	79	69	2146	339	1807
90+50	25	87.4	123.4	79	71	2224	424	1801
90+75	25	89.7	114.7	82	66	2306	503	1803

STAGE 2 MAINLINE EARTHWORK (STA 82+85 - STA 122+00, EASTBOUND) CONTINUED

STATION	DISTANCE (LF)	AREA CUT (SF)	AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME FILL (CY)	CUMULATIVE VOLUME CUT FACTOR 1.0 (CY)	CUMULATIVE VOLUME EXPANDED FILL FACTOR 1.2 (CY)	MASS ORD. (CY)
91+00	25	90.6	103.3	83	101	2390	624	1766
91+25	25	88.2	93.9	83	91	2473	734	1739
91+50	25	111.9	76.5	93	79	2565	828	1737
91+75	25	111.6	69.4	103	68	2669	910	1759
92+00	25	115.7	56.3	105	58	2774	979	1795
92+25	25	105.0	41.0	102	45	2876	1033	1843
92+50	25	95.7	29.9	93	33	2969	1073	1896
92+75	25	105.7	19.1	93	23	3062	1100	1962
93+00	25	131.0	18.6	110	17	3172	1121	2051
93+25	25	149.0	15.0	130	16	3302	1140	2162
93+50	25	159.7	11.5	143	12	3444	1154	2290
93+75	25	165.3	11.1	150	10	3595	1167	2428
94+00	25	170.3	8.2	155	9	3750	1178	2573
94+25	25	170.2	7.7	158	7	3908	1186	2722
94+50	25	164.0	8.9	155	8	4063	1196	2867
94+75	25	152.3	5.7	146	7	4209	1204	3005
95+00	25	136.3	6.1	134	5	4343	1210	3132
95+25	25	124.2	6.5	121	6	4463	1217	3246
95+50	25	79.6	12.5	94	9	4558	1228	3330
95+75	25	80.1	19.0	74	15	4632	1245	3386
96+00	25	85.7	18.8	77	18	4708	1266	3442
96+25	25	98.3	20.1	85	18	4794	1288	3506
96+50	25	110.7	9.9	97	14	4890	1305	3586
96+75	25	122.1	8.2	108	8	4998	1315	3683
97+00	25	123.4	8.9	114	8	5112	1324	3787
97+25	25	124.8	4.1	115	6	5227	1331	3895
97+50	25	124.1	7.4	115	5	5342	1338	4004
97+75	25	123.4	6.7	115	7	5456	1346	4111
98+00	25	119.4	7.0	112	6	5569	1353	4216
98+25	25	114.8	13.2	108	9	5677	1364	4313
98+50	25	74.9	12.6	88	12	5765	1379	4386
98+75	25	74.1	11.8	69	11	5834	1392	4442
99+00	25	68.9	7.7	66	9	5900	1403	4497
99+25	25	59.8	15.5	60	11	5960	1416	4544
99+50	25	53.9	9.7	53	12	6012	1430	4582
99+75	25	58.7	7.7	52	8	6064	1440	4625
100+00	25	64.1	7.1	57	7	6121	1448	4673
100+25	25	68.2	9.5	61	8	6183	1457	4725
100+50	25	69.2	8.9	64	9	6246	1467	4779
100+75	25	72.6	8.8	66	8	6312	1477	4835
101+00	25	72.4	10.9	67	9	6379	1488	4891
101+25	25	73.5	12.3	68	11	6446	1501	4945
101+50	25	78.7	15.1	70	13	6517	1516	5001
101+75	25	84.9	1.0	76	7	6593	1525	5067
102+00	25	75.6	11.0	74	6	6667	1532	5135
102+25	25	80.9	3.7	72	7	6739	1540	5199
102+50	25	80.6	1.5	75	2	6814	1543	5271
102+75	25	76.0	0.8	73	1	6887	1544	5342
103+00	25	63.1	0.0	64	0	6951	1545	5406
103+25	25	74.0	0.0	63	0	7014	1545	5470
103+50	25	80.1	0.0	71	0	7086	1545	5541

STAGE 2 MAINLINE EARTHWORK (STA 82+85 - STA 122+00, EASTBOUND) CONTINUED

STATION	DISTANCE (LF)	AREA CUT (SF)	AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME FILL (CY)	CUMULATIVE VOLUME CUT FACTOR 1.0 (CY)	CUMULATIVE VOLUME EXPANDED FILL FACTOR 1.2 (CY)	MASS ORD. (CY)
103+75	25	80.7	1.5	74	1	7160	1545	5615
104+00	25	82.7	1.3	76	1	7236	1547	5689
104+25	25	83.8	1.3	77	1	7313	1548	5765
104+50	25	80.7	1.6	76	1	7389	1550	5839
104+75	25	81.2	2.4	75	2	7464	1552	5912
105+00	25	80.3	3.3	75	3	7539	1555	5983
105+25	25	80.9	4.0	75	3	7613	1559	6054
105+50	25	82.4	3.7	76	4	7689	1564	6125
105+75	25	82.8	3.0	77	3	7766	1567	6198
106+00	25	83.8	3.2	77	3	7843	1571	6272
106+25	25	83.1	3.3	77	3	7920	1574	6346
106+50	25	83.4	3.2	77	3	7997	1578	6419
106+75	25	83.3	3.2	77	3	8074	1582	6493
107+00	25	84.0	3.4	77	3	8152	1585	6566
107+25	25	80.0	3.6	76	3	8228	1589	6638
107+50	25	75.8	4.5	72	4	8300	1594	6706
107+75	25	72.0	5.9	68	5	8368	1599	6769
108+00	25	70.9	7.7	66	6	8434	1607	6827
108+25	25	71.8	20.9	66	13	8500	1623	6878
108+50	25	76.0	32.3	68	25	8569	1652	6916
108+75	25	84.1	8.0	74	19	8643	1675	6968
109+00	25	87.9	20.5	80	13	8722	1691	7032
109+25	25	86.0	19.4	81	18	8803	1713	7090
109+50	25	85.6	23.7	79	20	8882	1737	7146
109+75	25	83.4	26.4	78	23	8961	1764	7196
110+00	25	80.9	28.7	76	26	9037	1795	7242
110+25	25	78.8	11.5	74	19	9111	1817	7293
110+50	25	75.1	3.5	71	7	9182	1826	7356
110+75	25	78.1	0.6	71	2	9253	1828	7425
111+00	25	73.8	0.6	70	1	9323	1829	7495
111+25	25	79.2	1.9	71	1	9394	1830	7564
111+50	25	91.7	2.0	79	2	9473	1832	7641
111+75	25	107.8	0.9	92	1	9565	1834	7732
112+00	25	126.5	0.4	108	1	9674	1834	7839
112+25	25	144.9	0.1	126	0	9800	1835	7965
112+50	25	152.2	0.0	138	0	9937	1835	8102
112+75	25	142.6	0.0	137	0	10074	1835	8239
113+00	25	155.7	0.0	138	0	10212	1835	8377
113+25	25	166.6	0.0	149	0	10361	1835	8526
113+50	25	178.7	0.0	160	0	10521	1835	8686
113+75	25	198.3	0.0	175	0	10695	1835	8860
114+00	25	211.9	0.0	190	0	10885	1835	9050
114+25	25	205.7	0.0	193	0	11078	1835	9244
114+50	25	210.8	0.8	193	0	11271	1835	9436
114+75	25	152.4	2.1	168	1	11439	1837	9602
115+00	25	156.2	3.6	143	3	11582	1840	9742
115+25	25	116.1	37.4	126	19	11708	1863	9845
115+50	25	115.6	41.4	107	36	11815	1907	9909
115+75	25	115.0	39.6	107	37	11922	1952	9971
116+00	25	113.4	37.3	106	36	12028	1994	10034
116+25	25	109.9	35.8	103	34	12131	2035	10097

STAGE 2 MAINLINE EARTHWORK (STA 82+85 - STA 122+00, EASTBOUND) CONTINUED								
		AREA		INCREMENTAL VOLUME		CUMUMLATIVE VOLUME		
STATION	DISTANCE (LF)	CUT (SF)	FILL (SF)	CUT (CY)	FILL (CY)	CUT FACTOR 1.0 (CY)	EXPANDED FILL FACTOR 1.2 (CY)	MASS ORD. (CY)
116+50	25	106.2	35.0	100	33	12232	2074	10157
116+75	25	103.7	29.4	97	30	12329	2110	10219
117+00	25	101.8	26.2	95	26	12424	2141	10283
117+25	25	103.4	22.7	95	23	12519	2168	10351
117+50	25	124.7	3.7	106	12	12624	2183	10442
117+75	25	110.5	16.4	109	9	12733	2194	10539
118+00	25	111.3	10.0	103	12	12836	2208	10628
118+25	25	150.2	1.7	121	5	12957	2215	10742
118+50	25	125.8	6.1	128	4	13085	2219	10866
118+75	25	127.9	9.7	117	7	13202	2228	10974
119+00	25	123.0	6.2	116	7	13319	2237	11082
119+25	25	113.6	4.9	110	5	13428	2243	11185
119+50	25	118.5	0.7	107	3	13536	2246	11289
119+75	25	118.9	1.0	110	1	13645	2247	11398
120+00	25	120.9	1.3	111	1	13756	2248	11508
120+25	25	108.7	1.6	106	1	13863	2250	11613
120+50	25	101.9	2.4	97	2	13960	2252	11708
120+75	25	97.1	12.3	92	7	14052	2260	11792
121+00	25	69.7	9.8	77	10	14130	2273	11857
121+25	25	59.4	0.0	60	5	14189	2278	11911
121+50	25	40.2	0.0	46	0	14235	2278	11957
121+75	25	39.0	0.0	37	0	14272	2278	11994
122+00	25	47.0	4.4	40	2	14312	2281	12031
STAGE 2 MAINLINE SUBTOTALS				14312	1901	--	--	--

STAGE 2 CROSS STREET INTERSECTIONS EARTHWORK (STA 82+85 - STA 122+00, EASTBOUND)					
	INCREMENTAL VOLUME		CUMUMLATIVE VOLUME		
STATION - STATION (CROSS STREET)	CUT (CY)	FILL (CY)	CUT FACTOR 1.0 (CY)	EXPANDED FILL FACTOR 1.2 (CY)	MASS ORD. (CY)
86+75 - 88+50 (SCHOENSTATT DRIVEWAY)	210	10	210	12	198
102+00 - 103+00 (MCCLEAN DR)	240	0	450	12	438
110+50 - 111+25 (SEVERSON DR)	180	0	630	12	618
120+75 - 122+05 (SPRECHER ROAD)	390	20	1020	36	984
STAGE 2 CROSS STREET INTERSECTIONS SUBTOTALS	1020	30			
STAGE 2 TOTALS	**15332**	**1931**	--	**2317**	--

STAGE 3 CROSS STREET INTERSECTIONS EARTHWORK (STA 16+05-STA 26+50 & STA 36+25-STA 60+00, WESTBOUND)					
	INCREMENTAL VOLUME		CUMUMLATIVE VOLUME		
STATION - STATION (CROSS STREET)	CUT (CY)	FILL (CY)	CUT FACTOR 1.0 (CY)	EXPANDED FILL FACTOR 1.2 (CY)	MASS ORD. (CY)
21+00 - 22+00 (NORTH STAR)	25	0	25	0	25
25+75 - 26+50 (GEMINI)	0	0	25	0	25
36+50 - 37+50 (MCCLEAN)	0	0	25	0	25
45+00 - 45+75 (MCCLELLAN)	165	0	190	0	190
55+50 - 56+25 (SPRECHER)	350	0	540	0	540
STAGE 2 CROSS STREET INTERSECTIONS SUBTOTALS	540	0			
STAGE 2 TOTALS	**7767**	**59**	--	**71**	--

STAGE 3 MAINLINE EARTHWORK (STA 16+05-STA 26+50 & STA 36+25-STA 60+00, WESTBOUND)								
		AREA		INCREMENTAL VOLUME		CUMUMLATIVE VOLUME		
STATION	DISTANCE (LF)	CUT (SF)	FILL (SF)	CUT (CY)	FILL (CY)	CUT FACTOR 1.0 (CY)	EXPANDED FILL FACTOR 1.2 (CY)	MASS ORD. (CY)
16+05	15	61.6	0.0	0	0	0	0	0
16+25	25	20.7	0.0	23	0	23	0	23
16+50	25	20.7	0.0	19	0	42	0	42
16+75	25	20.7	0.0	19	0	61	0	61
17+00	25	20.7	0.0	19	0	80	0	80
17+25	25	20.7	0.0	19	0	100	0	100
17+50	25	20.7	0.0	19	0	119	0	119
17+75	25	20.7	0.0	19	0	138	0	138
18+00	25	20.7	0.0	19	0	157	0	157
18+25	25	20.7	0.0	19	0	176	0	176
18+50	25	20.7	0.0	19	0	196	0	196
18+75	25	20.7	0.0	19	0	215	0	215
19+00	25	20.7	0.0	19	0	234	0	234
19+25	25	20.7	0.0	19	0	253	0	253
19+50	25	20.7	0.0	19	0	272	0	272
19+75	25	20.7	0.0	19	0	292	0	292
20+00	25	20.7	0.0	19	0	311	0	311
20+25	25	20.7	0.0	19	0	330	0	330
20+50	25	20.7	0.0	19	0	349	0	349
20+70	25	20.7	0.0	19	0	368	0	368
20+75	25	20.7	0.0	19	0	388	0	388
21+00	25	69.1	0.0	42	0	429	0	429
21+25	25	81.3	0.0	70	0	499	0	499
21+50	25	84.4	0.0	77	0	575	0	575
21+75	25	102.6	0.0	87	0	662	0	662
22+00	25	83.0	0.0	86	0	748	0	748
22+25	25	88.3	0.0	79	0	827	0	827
22+50	25	53.6	0.0	66	0	893	0	893
22+75	25	53.0	0.0	49	0	942	0	942
23+00	25	52.6	0.0	49	0	991	0	991
23+25	25	51.0	0.0	48	0	1039	0	1039
23+50	25	51.7	0.0	48	0	1087	0	1087
23+75	25	52.0	0.0	48	0	1135	0	1135
24+00	25	55.0	0.0	49	0	1184	0	1184
24+25	25	53.3	0.0	50	0	1234	0	1234
24+50	25	51.5	0.0	49	0	1283	0	1283
24+75	25	50.3	0.0	47	0	1330	0	1330
25+00	25	51.5	0.0	47	0	1377	0	1377
25+25	25	53.2	0.0	48	0	1425	0	1425
25+50	25	57.5	0.0	51	0	1477	0	1477
25+75	25	55.5	0.0	52	0	1529	0	1529
26+00	25	53.3	0.0	50	0	1579	0	1579
26+25	25	52.6	0.0	49	0	1628	0	1628
26+50	25	57.6	0.0	51	0	1679	0	1679

STAGE 3 MAINLINE EARTHWORK (STA 16+05-STA 26+50 & STA 36+25-STA 60+00, WESTBOUND) CONTINUED

STATION	DISTANCE (LF)	AREA CUT (SF)	AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME FILL (CY)	CUMUMLATIVE VOLUME CUT FACTOR 1.0 (CY)	CUMUMLATIVE VOLUME EXPANDED FILL FACTOR 1.2 (CY)	MASS ORD. (CY)
36+25	25	49.6	0.0	50	0	1729	0	1729
36+50	25	62.0	0.0	52	0	1781	0	1781
36+75	25	75.0	0.0	63	0	1844	0	1844
37+00	25	75.5	0.0	70	0	1914	0	1914
37+25	25	76.0	0.0	70	0	1984	0	1984
37+50	25	77.9	0.0	71	0	2055	0	2055
37+75	25	73.8	0.0	70	0	2125	0	2125
38+00	25	75.5	0.0	69	0	2194	0	2194
38+25	25	78.2	0.0	71	0	2265	0	2265
38+50	25	78.6	0.0	73	0	2338	0	2338
38+75	25	77.8	0.0	72	0	2410	0	2410
39+00	25	78.2	0.0	72	0	2483	0	2483
39+25	25	76.5	0.0	72	0	2554	0	2554
39+50	25	67.5	0.0	67	0	2621	0	2621
39+75	25	63.3	0.0	61	0	2682	0	2682
40+00	25	60.0	0.0	57	0	2739	0	2739
40+25	25	58.2	0.0	55	0	2793	0	2793
40+50	25	56.1	0.0	53	0	2846	0	2846
40+75	25	56.4	0.0	52	0	2898	0	2898
41+00	25	55.6	0.0	52	0	2950	0	2950
41+25	25	58.5	0.0	53	0	3003	0	3003
41+50	25	60.0	0.0	55	0	3058	0	3058
41+75	25	61.6	0.0	56	0	3114	0	3114
42+00	25	63.2	0.0	58	0	3172	0	3172
42+25	25	65.1	0.0	59	0	3231	0	3231
42+50	25	64.9	0.0	60	0	3291	0	3291
42+75	25	60.3	0.0	58	0	3349	0	3349
43+00	25	55.4	0.0	54	0	3403	0	3403
43+25	25	49.7	0.0	49	0	3451	0	3451
43+50	25	44.3	0.0	44	0	3495	0	3495
43+75	25	40.5	0.0	39	0	3534	0	3534
44+00	25	35.1	1.5	35	1	3569	1	3568
44+25	25	25.2	4.1	28	3	3597	4	3593
44+50	25	22.1	4.2	22	4	3619	9	3610
44+75	25	40.1	0.9	29	2	3648	11	3636
45+00	25	35.9	0.0	35	0	3683	12	3671
45+25	25	63.6	0.0	46	0	3729	12	3717
45+50	25	54.2	0.0	55	0	3784	12	3772
45+75	25	67.4	0.0	56	0	3840	12	3828
46+00	25	74.8	0.0	66	0	3906	12	3894
46+25	25	67.6	1.0	66	0	3972	12	3959
46+50	25	50.7	3.4	55	2	4026	15	4012
46+75	25	94.6	0.0	67	2	4094	17	4077
47+00	25	99.1	0.0	90	0	4183	17	4167
47+25	25	107.3	0.0	96	0	4279	17	4262
47+50	25	93.7	0.0	93	0	4372	17	4355
47+75	25	103.1	0.0	91	0	4463	17	4447
48+00	25	114.6	0.0	101	0	4564	17	4547
48+25	25	120.7	0.0	109	0	4673	17	4656
48+50	25	131.0	0.0	116	0	4789	17	4773
48+75	25	148.7	0.0	129	0	4919	17	4902

STAGE 3 MAINLINE EARTHWORK (STA 16+05-STA 26+50 & STA 36+25-STA 60+00, WESTBOUND) CONTINUED

STATION	DISTANCE (LF)	AREA CUT (SF)	AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME FILL (CY)	CUMUMLATIVE VOLUME CUT FACTOR 1.0 (CY)	CUMUMLATIVE VOLUME EXPANDED FILL FACTOR 1.2 (CY)	MASS ORD. (CY)
49+00	25	202.6	0.0	163	0	5081	17	5065
49+25	25	171.2	0.0	173	0	5255	17	5238
49+50	25	159.7	0.0	153	0	5408	17	5391
49+75	25	137.3	0.0	137	0	5545	17	5529
50+00	25	102.2	0.0	111	0	5656	17	5639
50+25	25	103.0	0.0	95	0	5751	17	5734
50+50	25	56.6	0.0	74	0	5825	17	5808
50+75	25	50.8	1.2	50	1	5875	17	5857
51+00	25	30.9	3.4	38	2	5913	20	5893
51+25	25	25.9	3.0	26	3	5939	23	5915
51+50	25	24.3	2.6	23	3	5962	26	5936
51+75	25	23.1	4.1	22	3	5984	30	5954
52+00	25	17.9	5.8	19	5	6003	36	5967
52+25	25	16.9	9.1	16	7	6019	44	5975
52+50	25	22.3	3.3	18	6	6037	51	5986
52+75	25	27.1	4.1	23	3	6060	55	6005
53+00	25	37.1	1.1	30	2	6090	58	6032
53+25	25	45.8	0.9	38	1	6128	59	6069
53+50	25	62.1	0.0	50	0	6178	59	6119
53+75	25	68.6	0.5	61	0	6239	60	6179
54+00	25	59.0	0.2	59	0	6298	60	6238
54+25	25	57.1	1.1	54	1	6352	61	6291
54+50	25	52.3	2.0	51	1	6402	62	6340
54+75	25	47.6	2.8	46	2	6448	65	6383
55+00	25	75.8	0.0	57	1	6506	67	6439
55+25	25	71.0	0.0	68	0	6574	67	6507
55+50	25	70.8	0.0	66	0	6639	67	6573
55+75	25	74.6	0.0	67	0	6706	67	6640
56+00	25	80.7	0.0	72	0	6778	67	6712
56+25	25	93.1	0.0	80	0	6859	67	6792
56+50	25	39.6	1.5	61	1	6920	67	6853
56+75	25	35.4	0.7	35	1	6955	69	6886
57+00	25	37.5	0.0	34	0	6989	69	6920
57+25	25	34.7	0.1	33	0	7022	69	6953
57+50	25	31.5	0.0	31	0	7053	69	6983
57+75	25	23.8	0.0	26	0	7078	69	7009
58+00	25	18.4	0.4	20	0	7098	70	7028
58+25	25	18.9	0.0	17	0	7115	70	7045
58+50	25	20.9	0.0	18	0	7134	70	7064
58+75	25	17.6	0.0	18	0	7151	70	7082
59+00	25	17.0	0.0	16	0	7167	70	7098
59+25	25	16.3	0.1	15	0	7183	70	7113
59+50	25	15.8	0.3	15	0	7198	70	7128
59+75	25	15.8	0.2	15	0	7212	70	7142
60+00	25	15.1	0.3	14	0	7227	71	7156
STAGE 3 MAINLINE SUBTOTALS				7227	59	--	--	--

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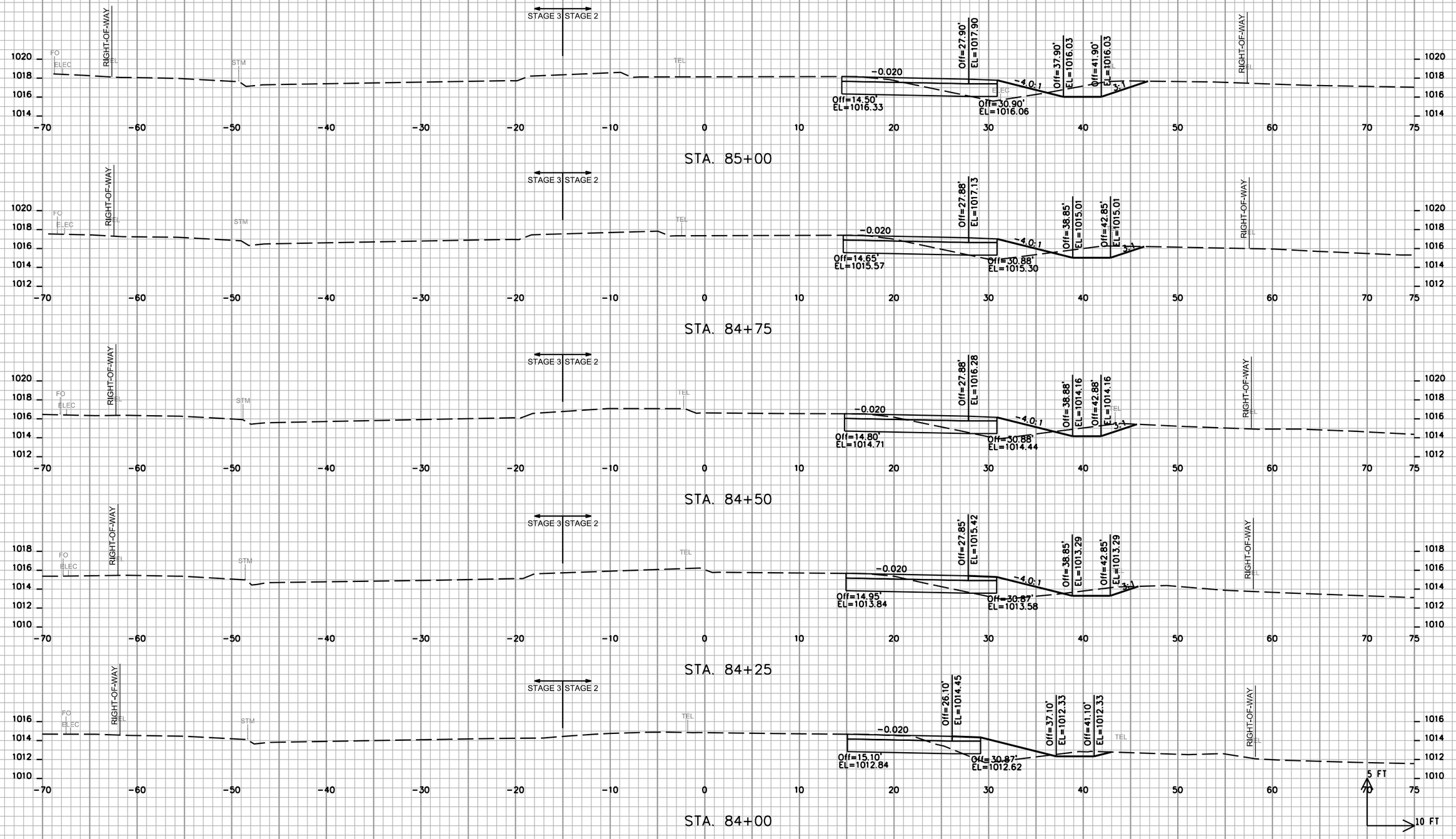
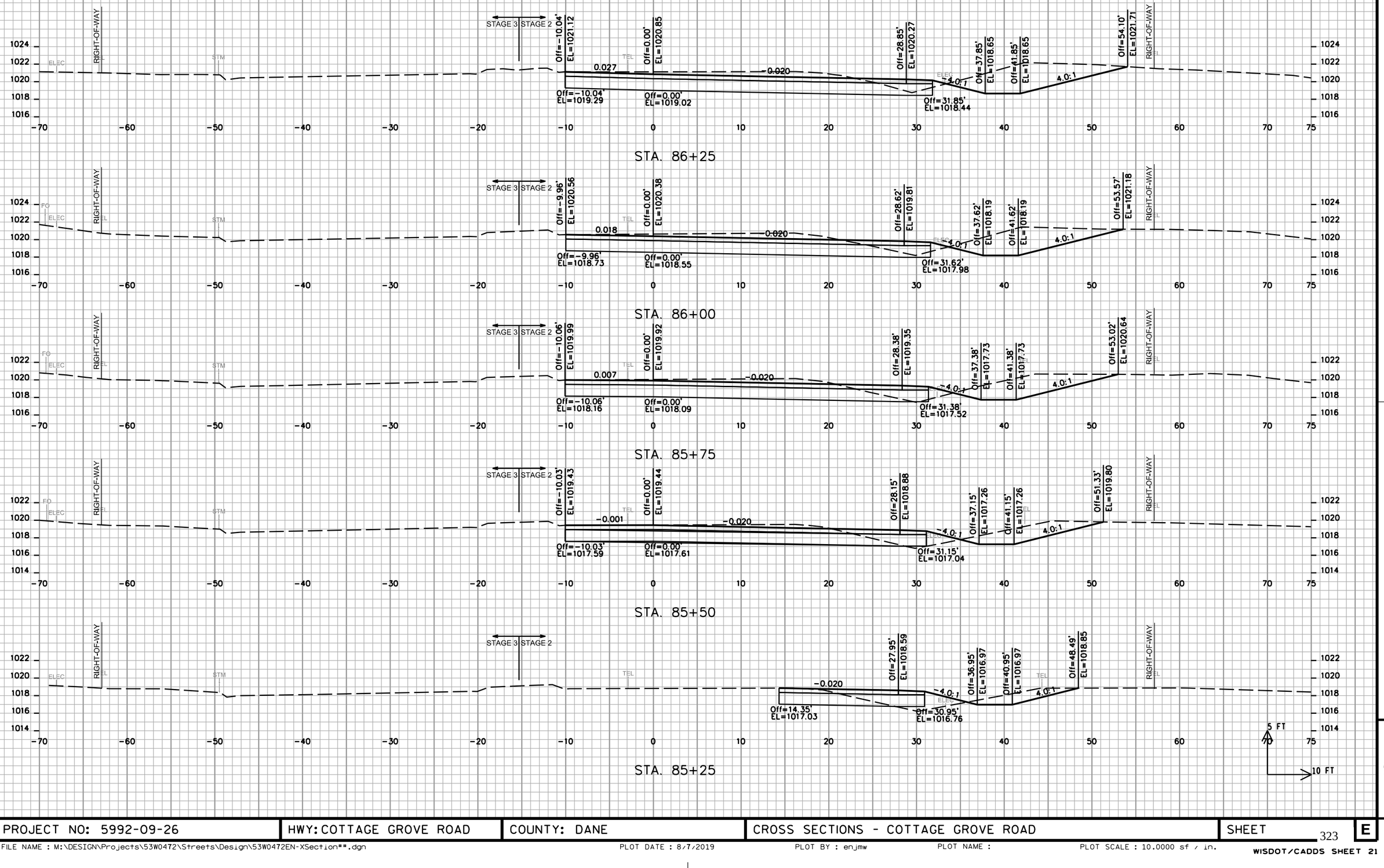


PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 322 E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

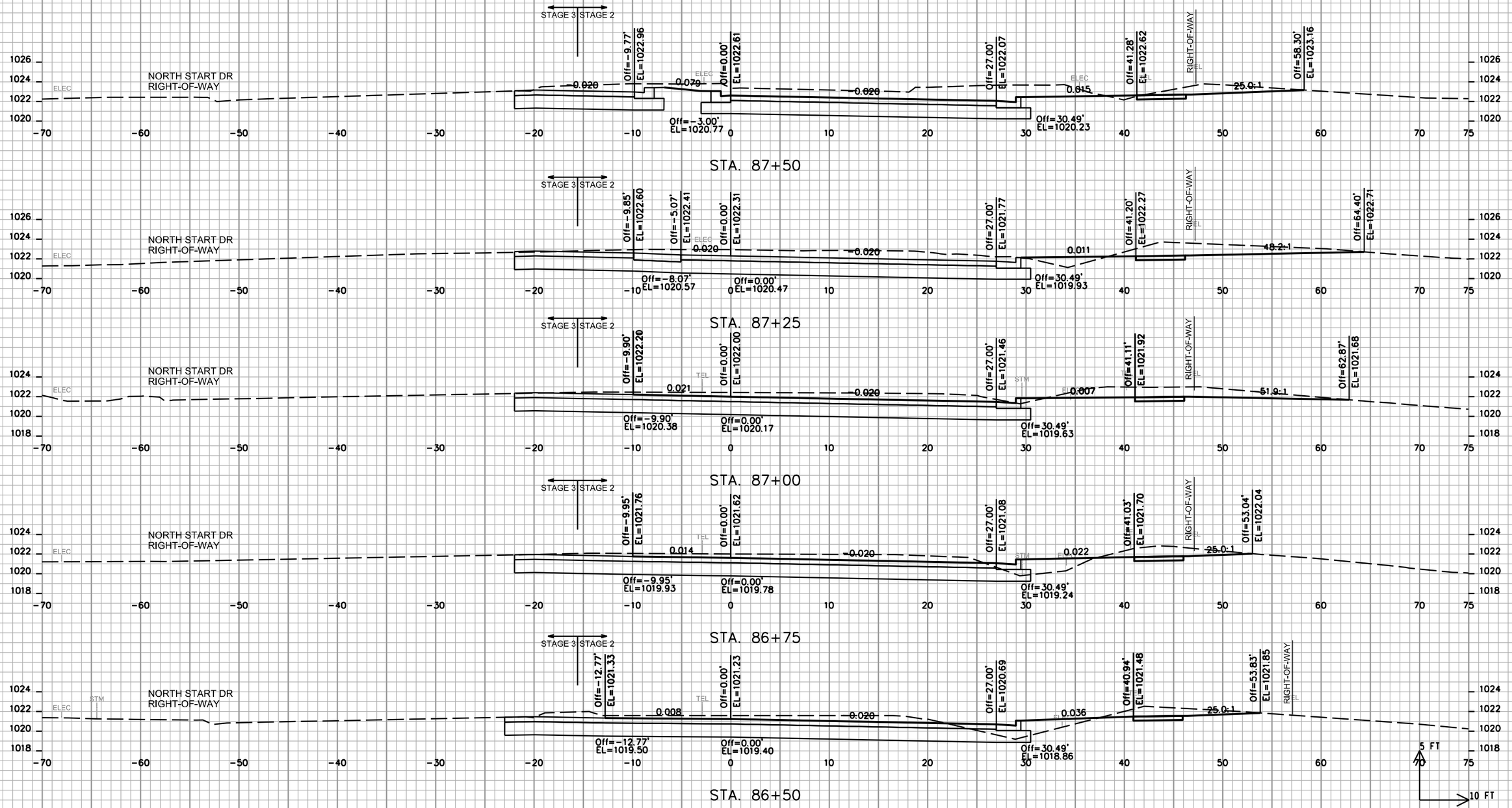
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 323 E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



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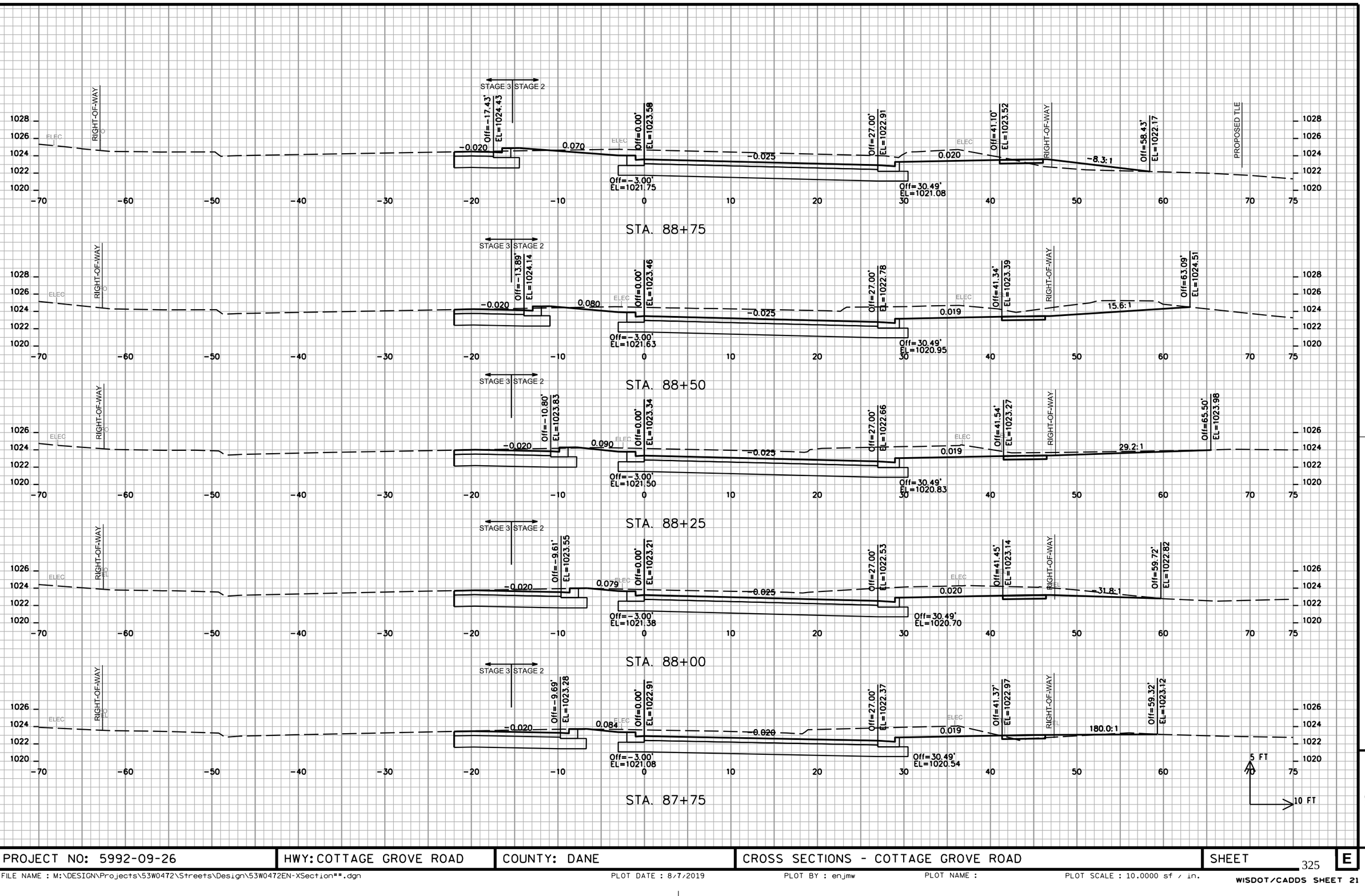
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 324	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

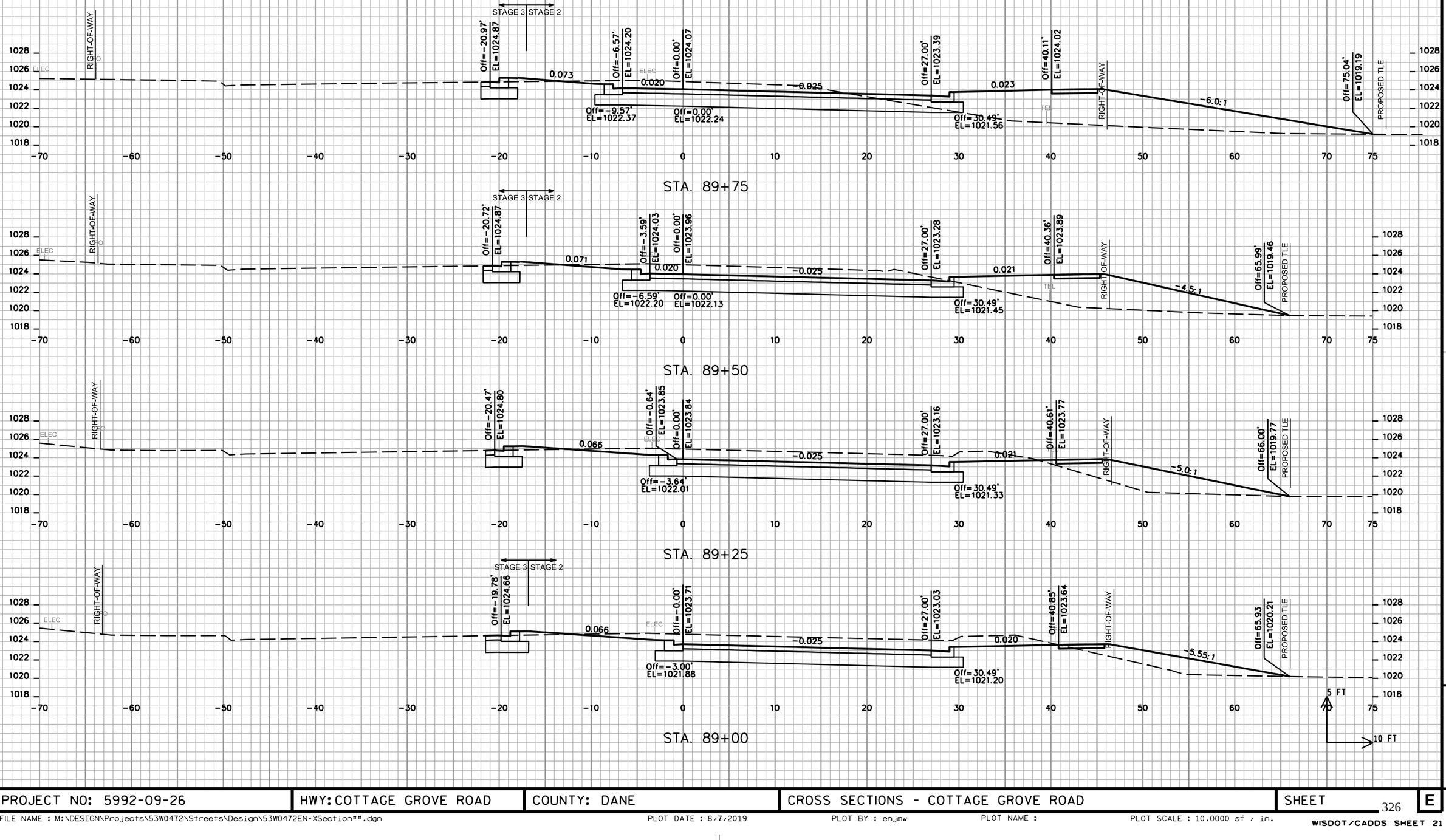
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



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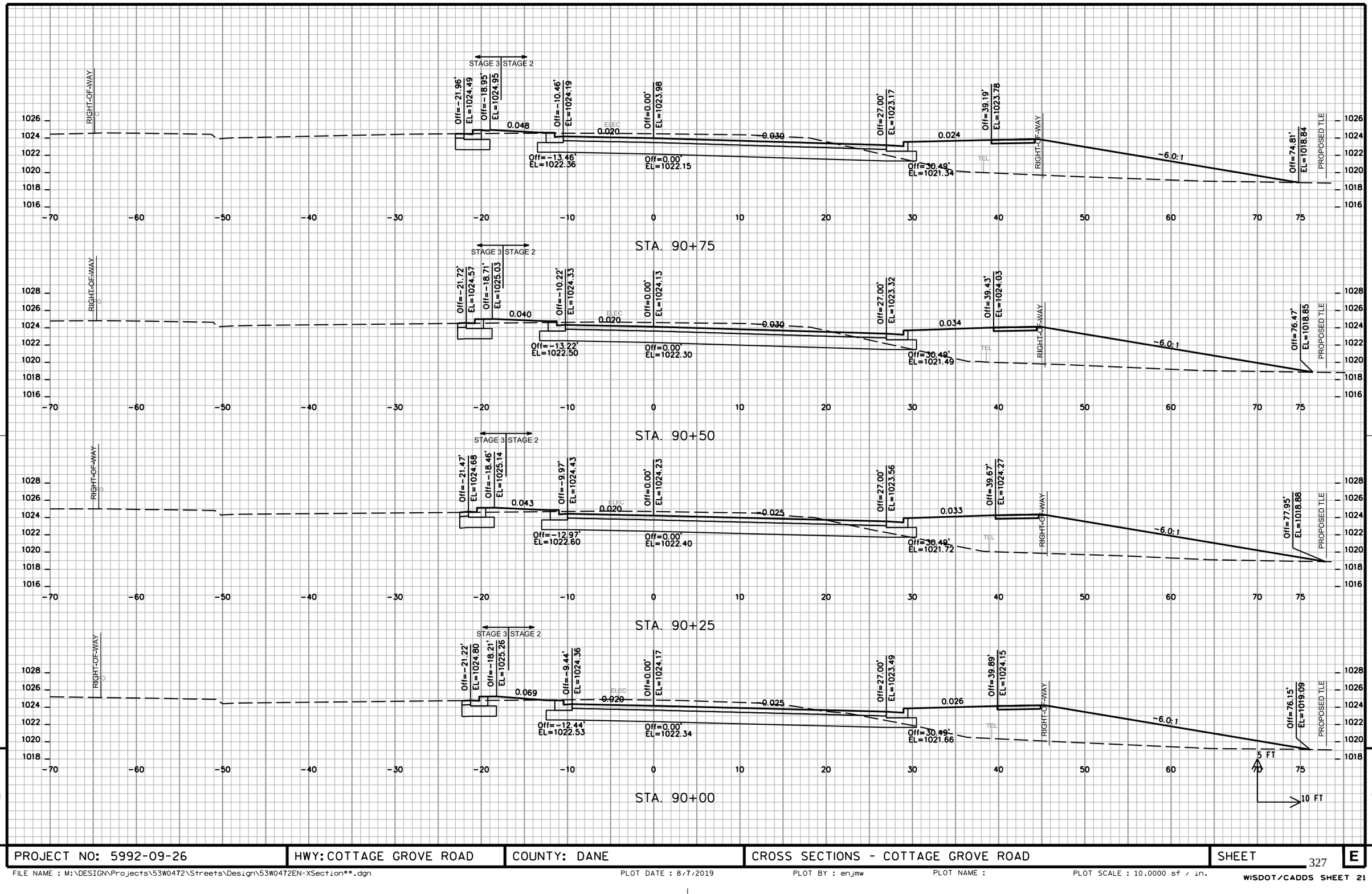
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



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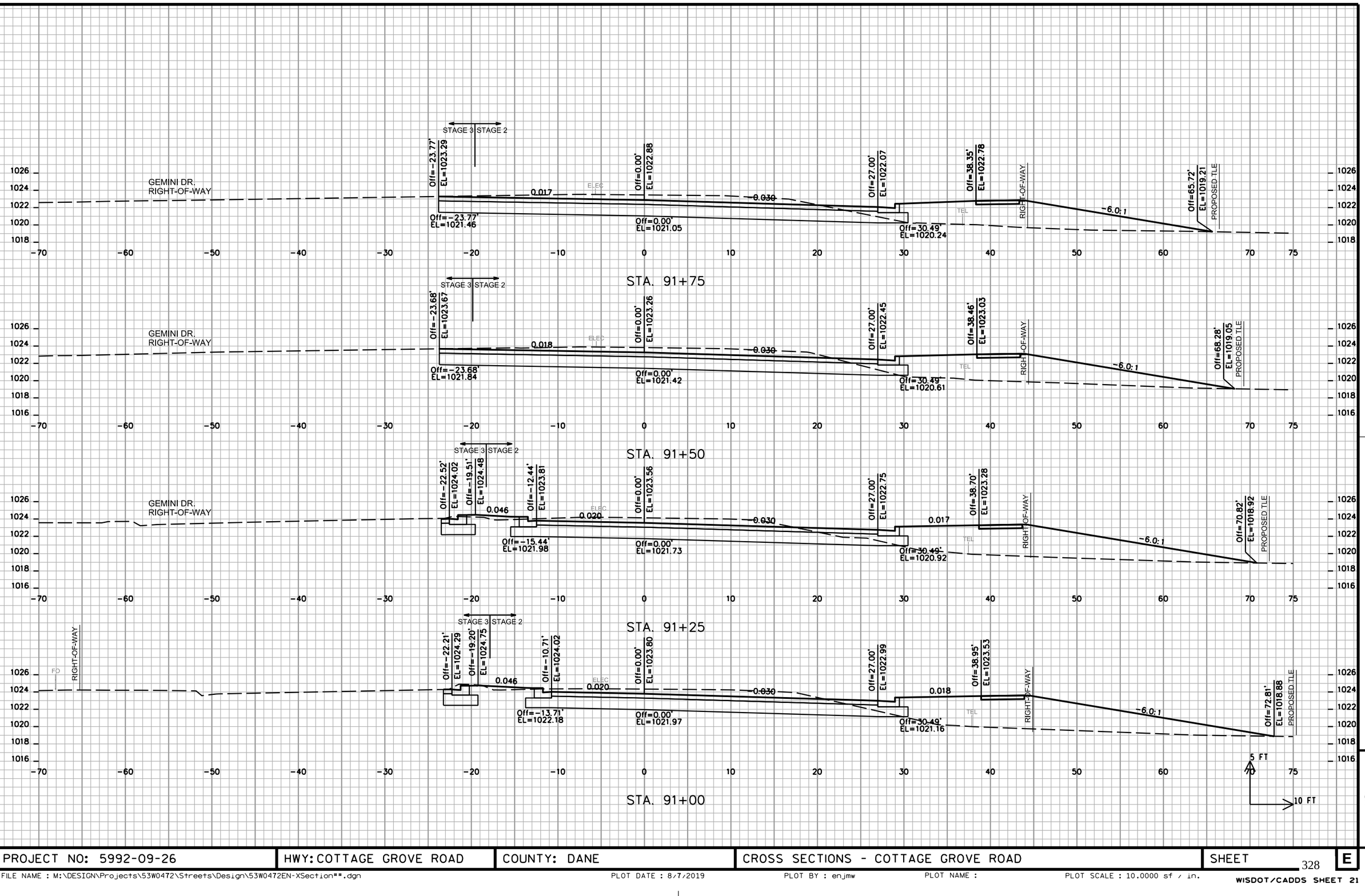
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

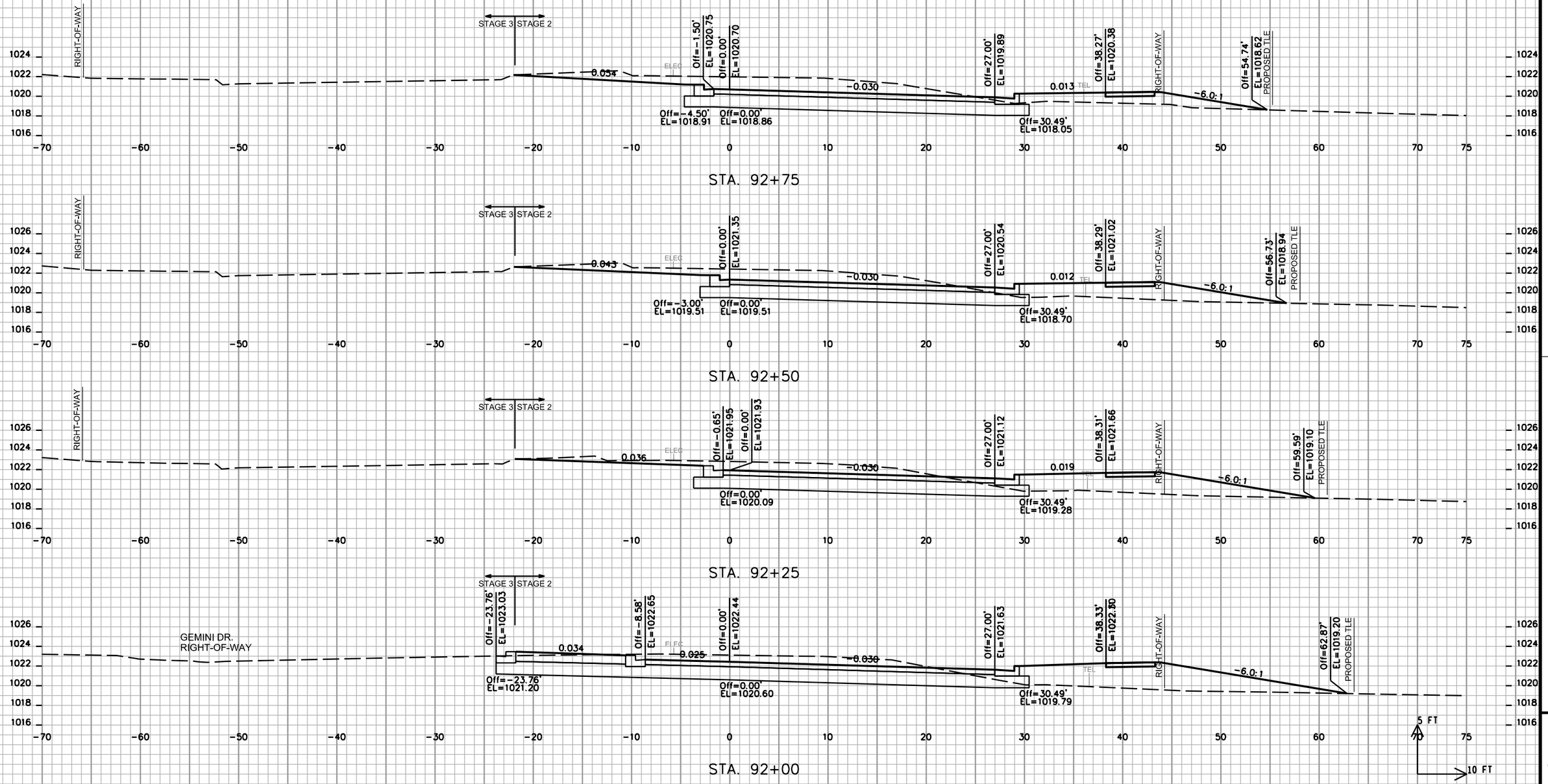
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

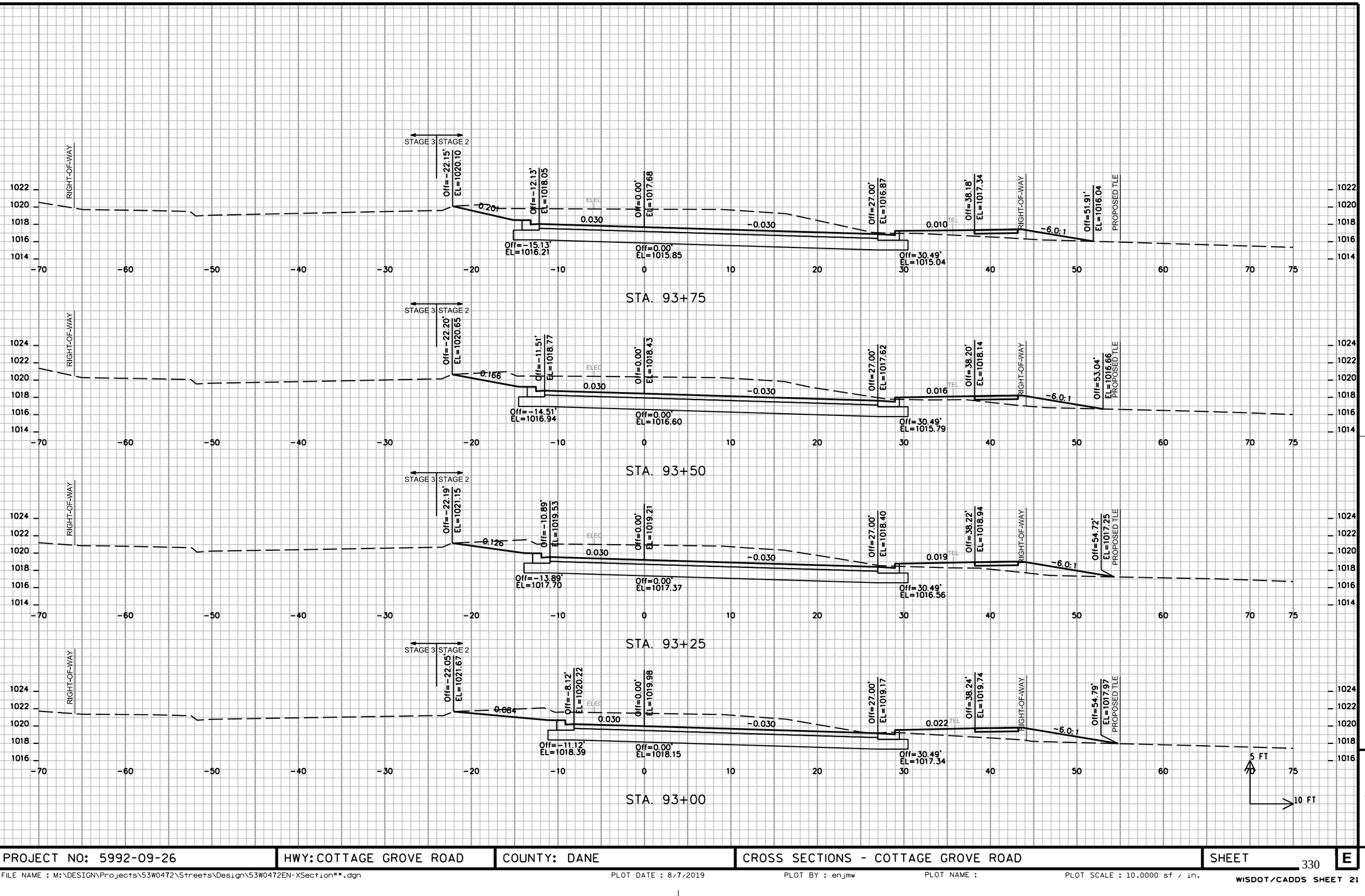
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 329	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

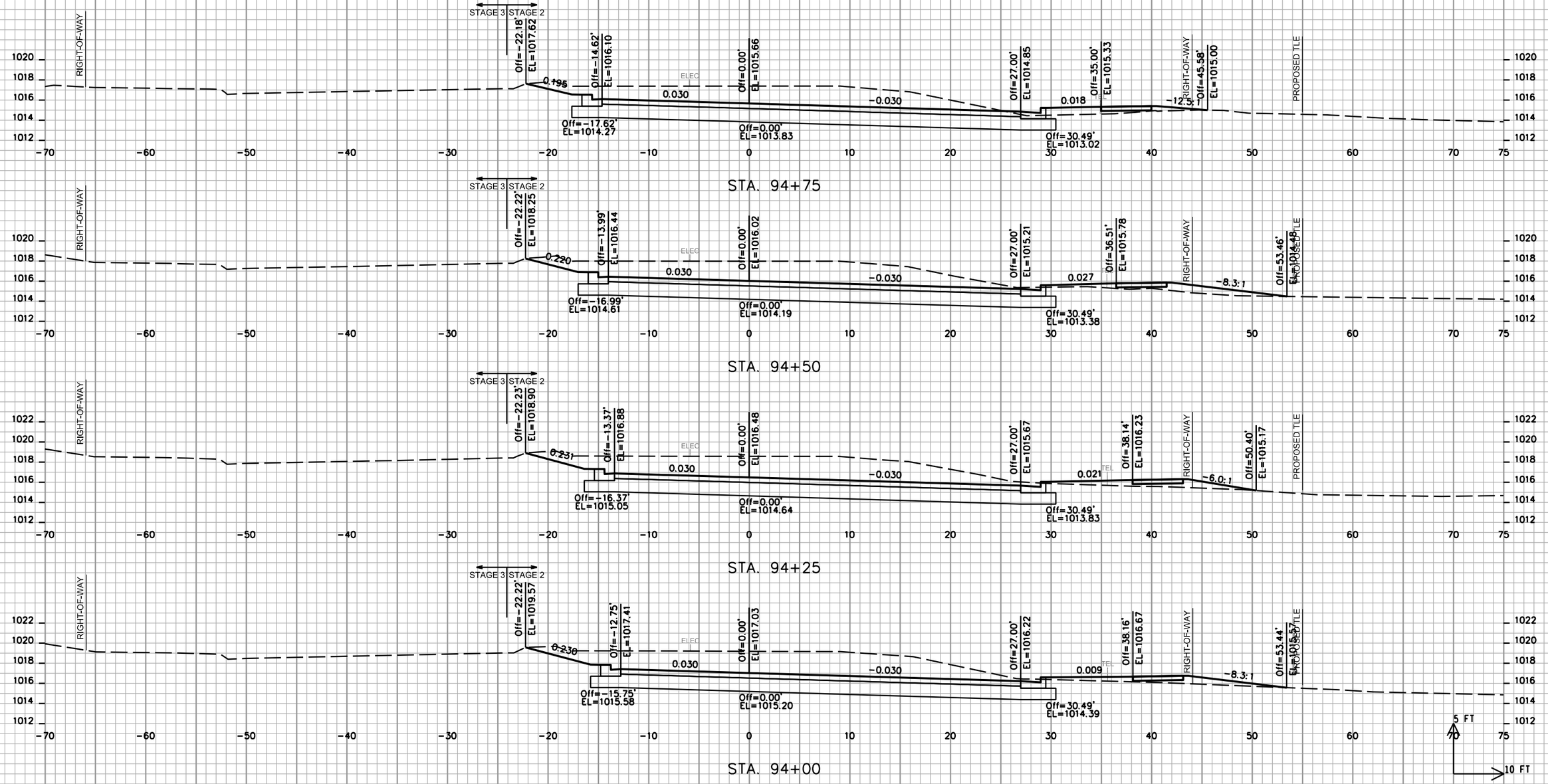
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 330 E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

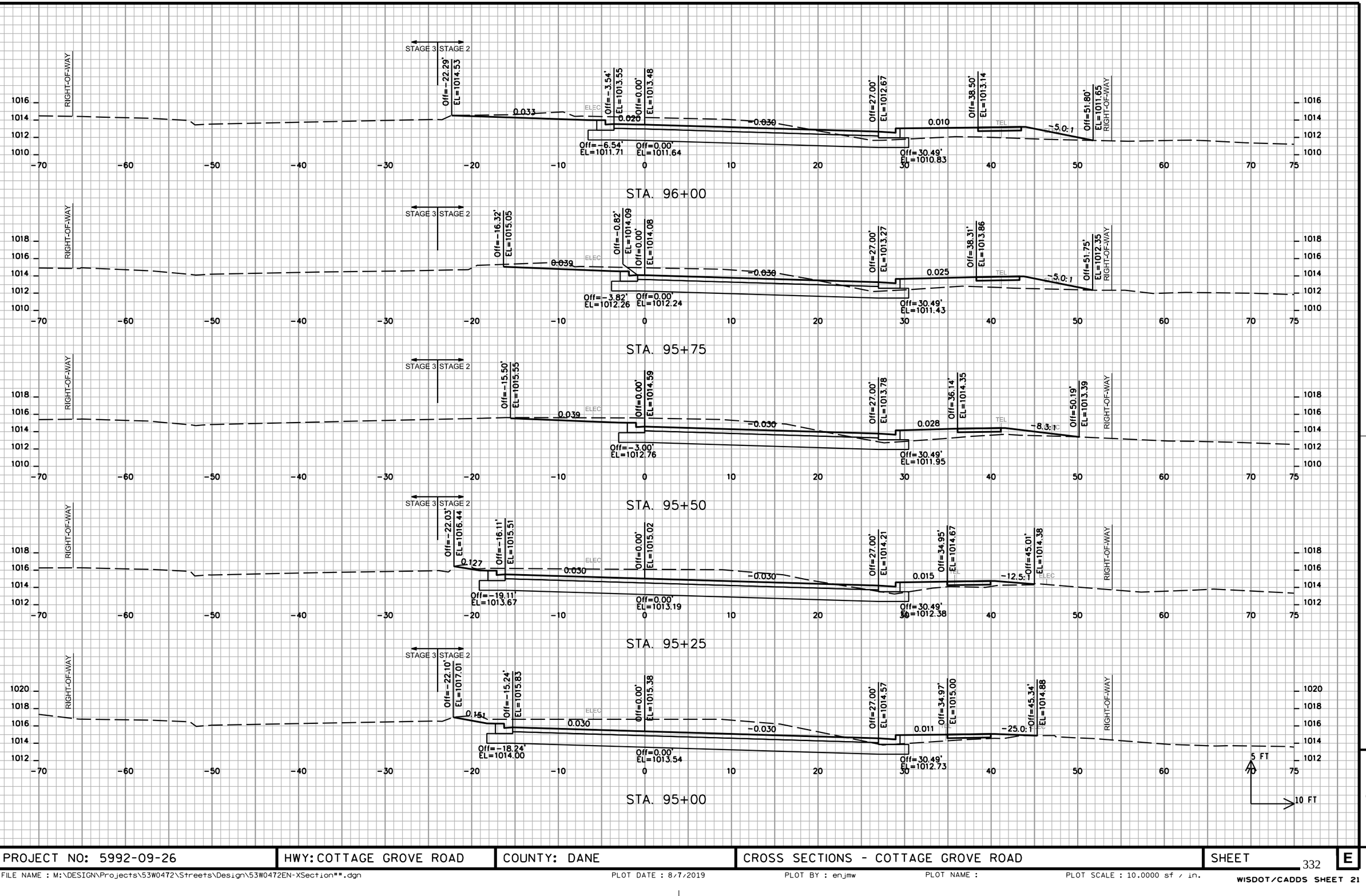
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 331 E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



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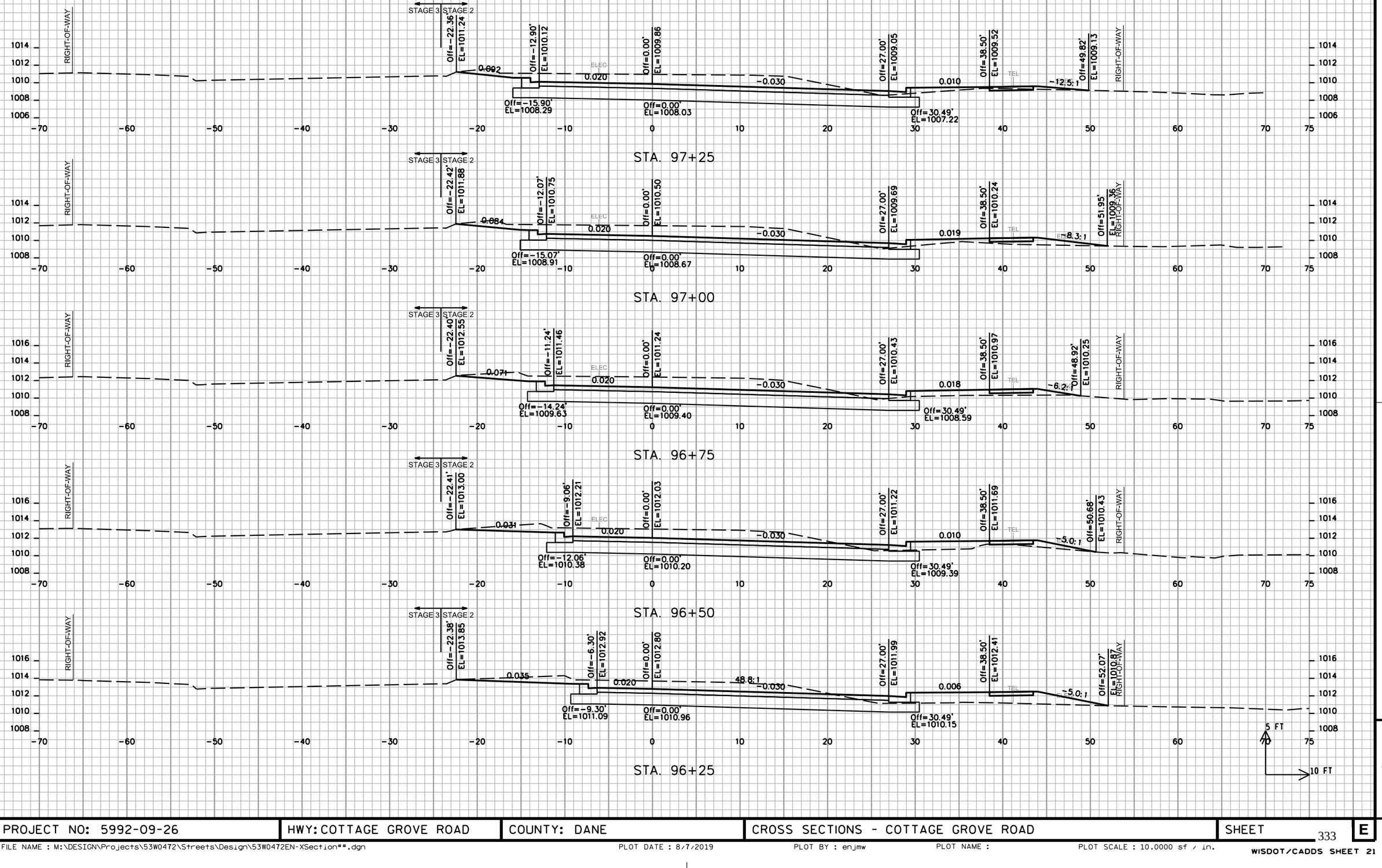
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 332	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

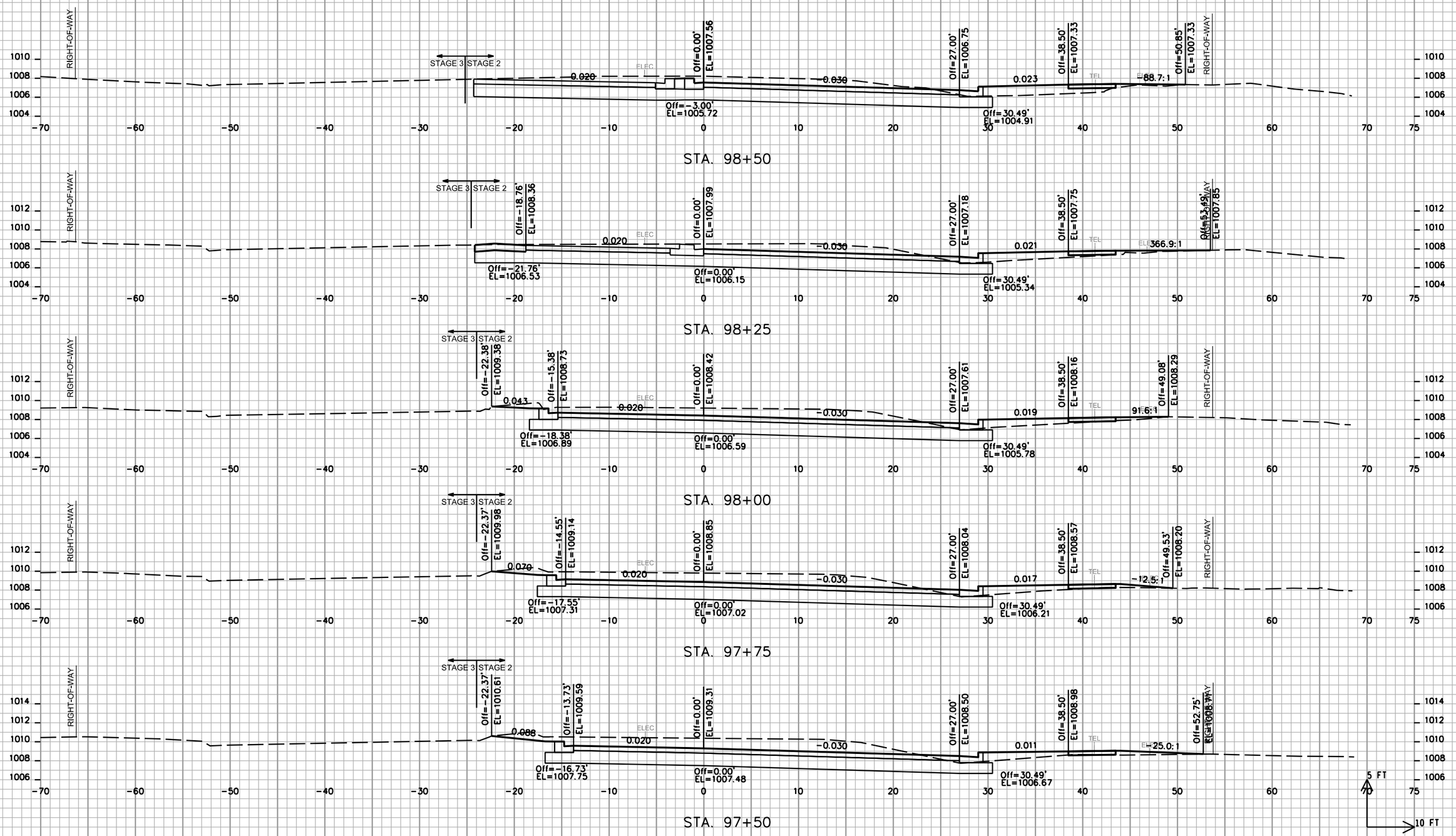
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 333	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

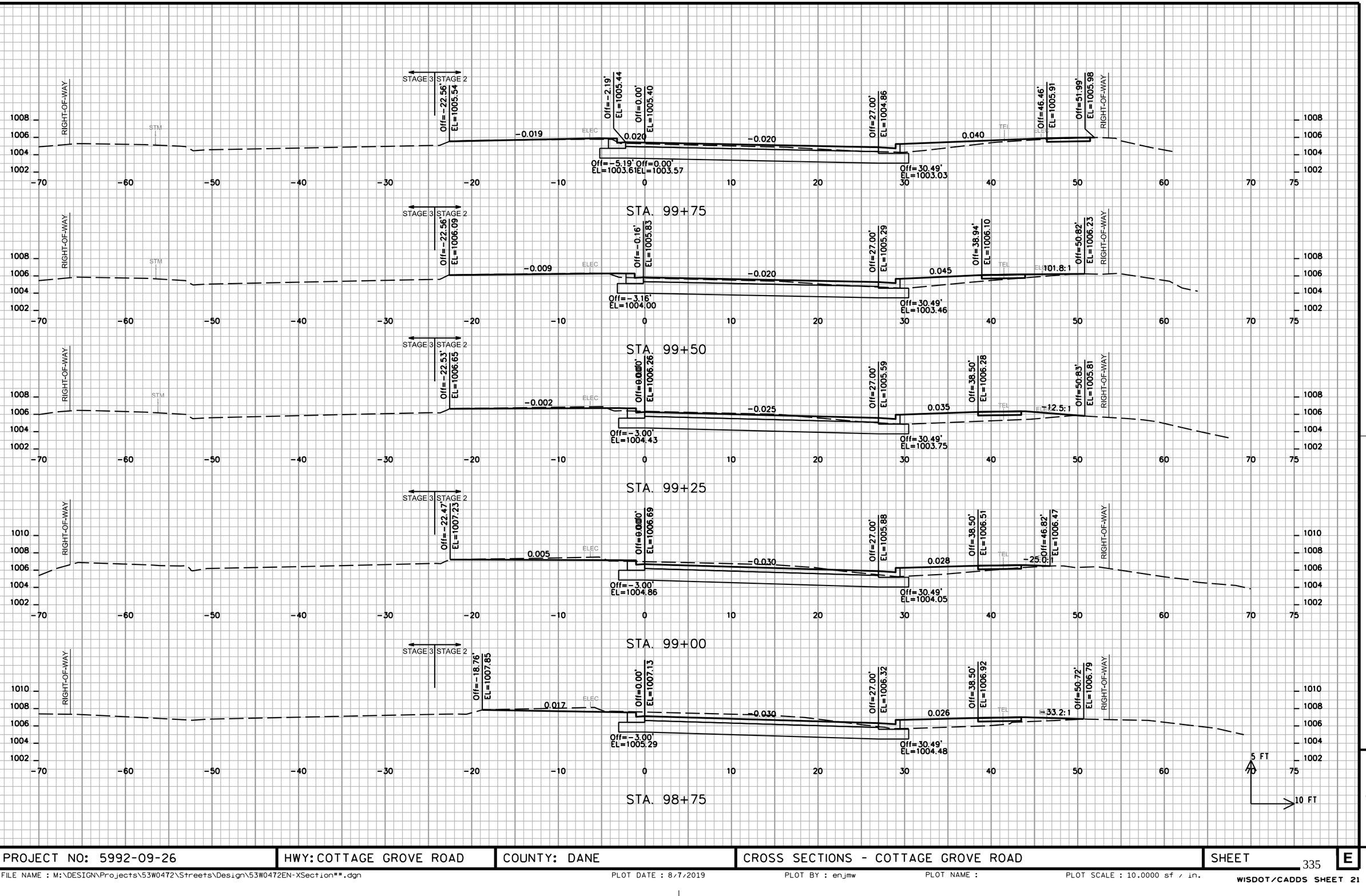
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



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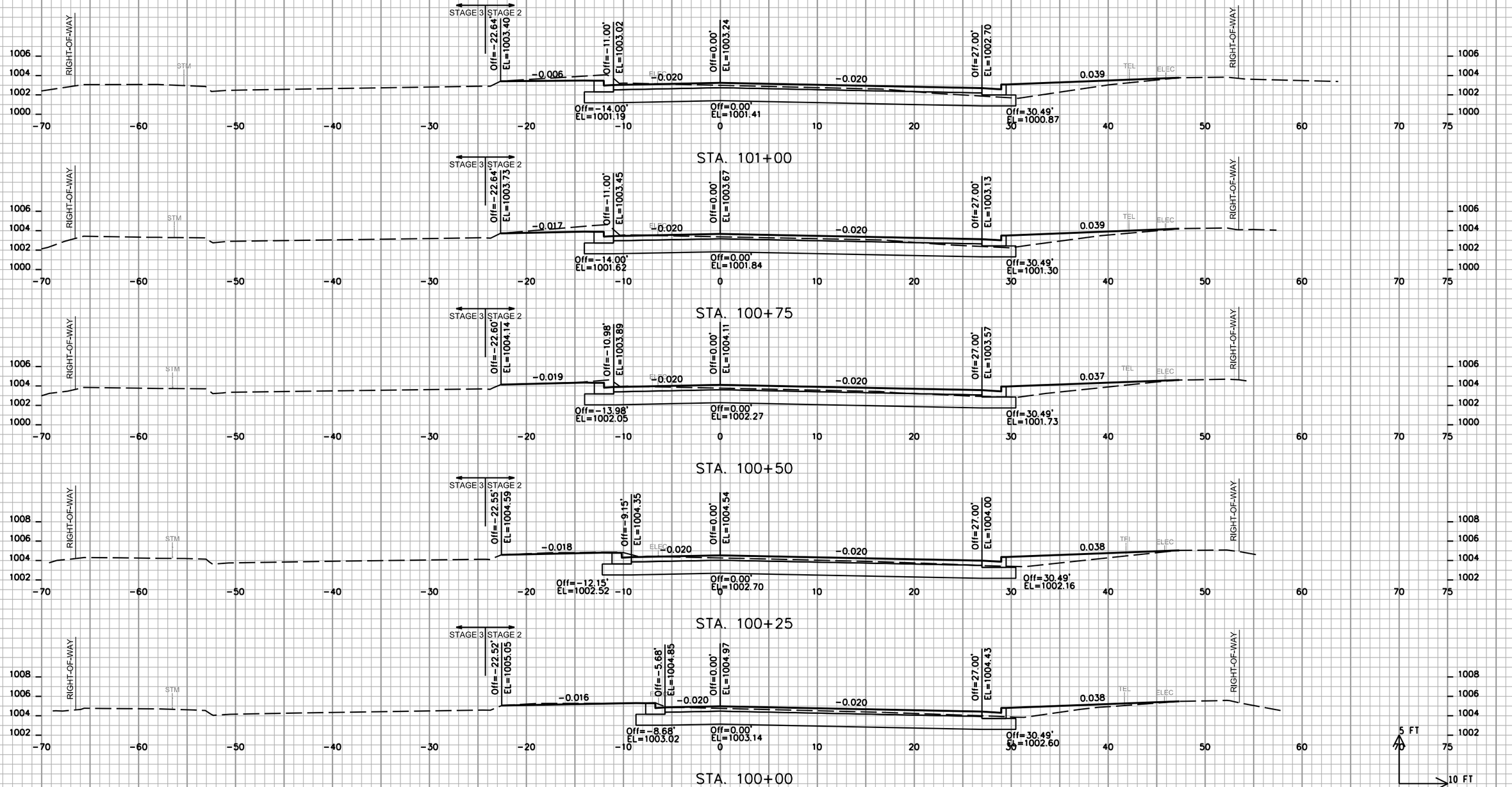
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 335	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

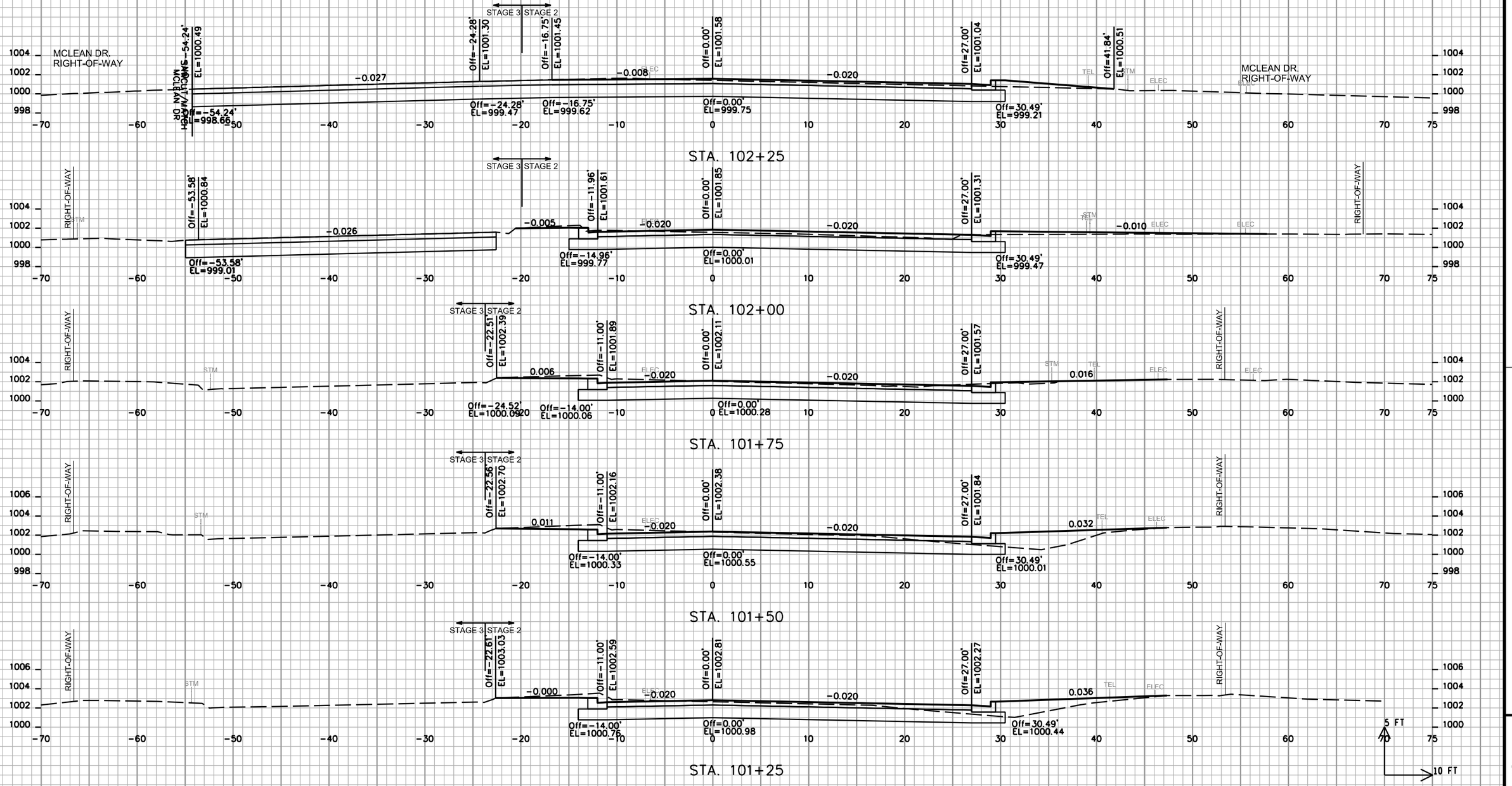
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

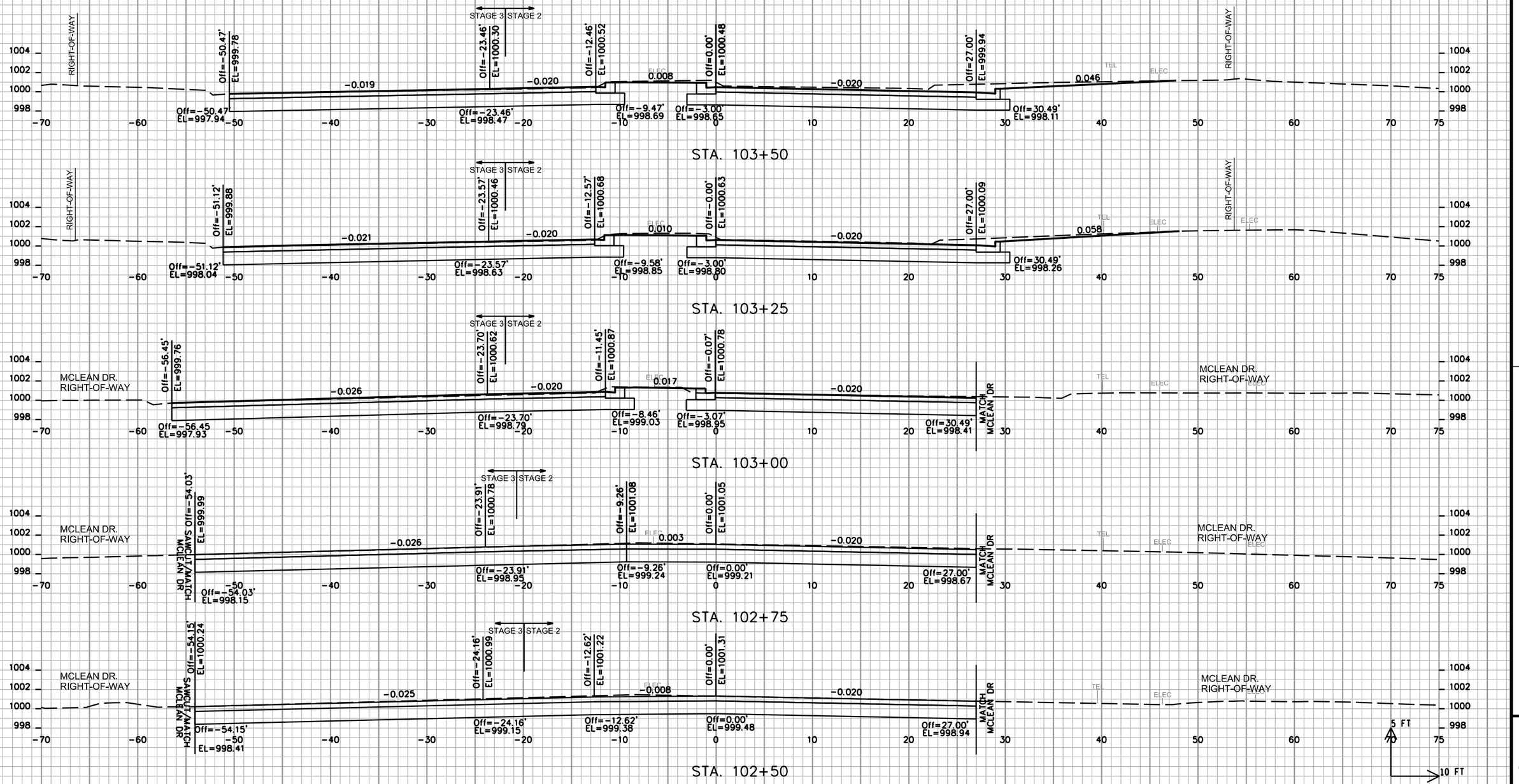
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

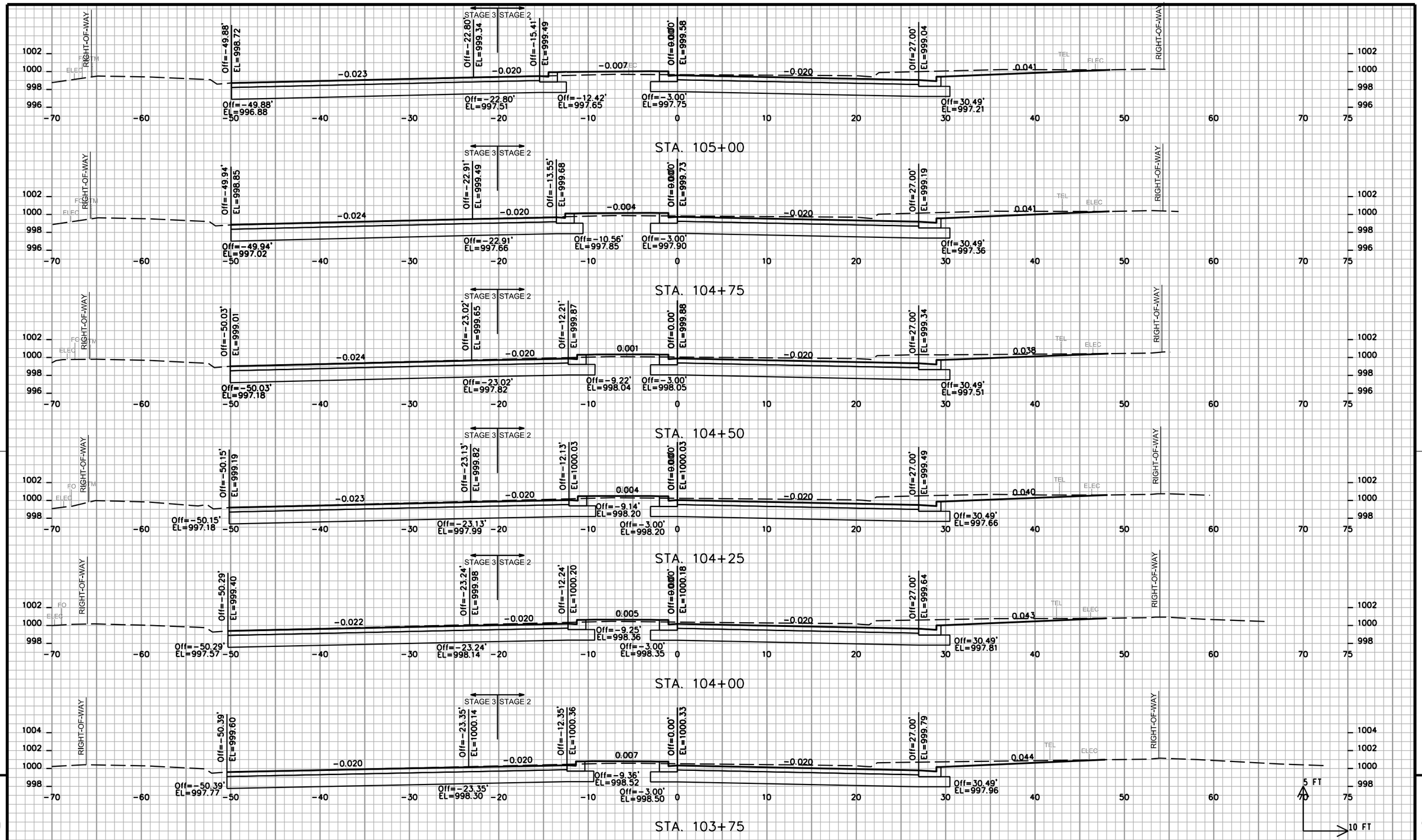
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 338	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

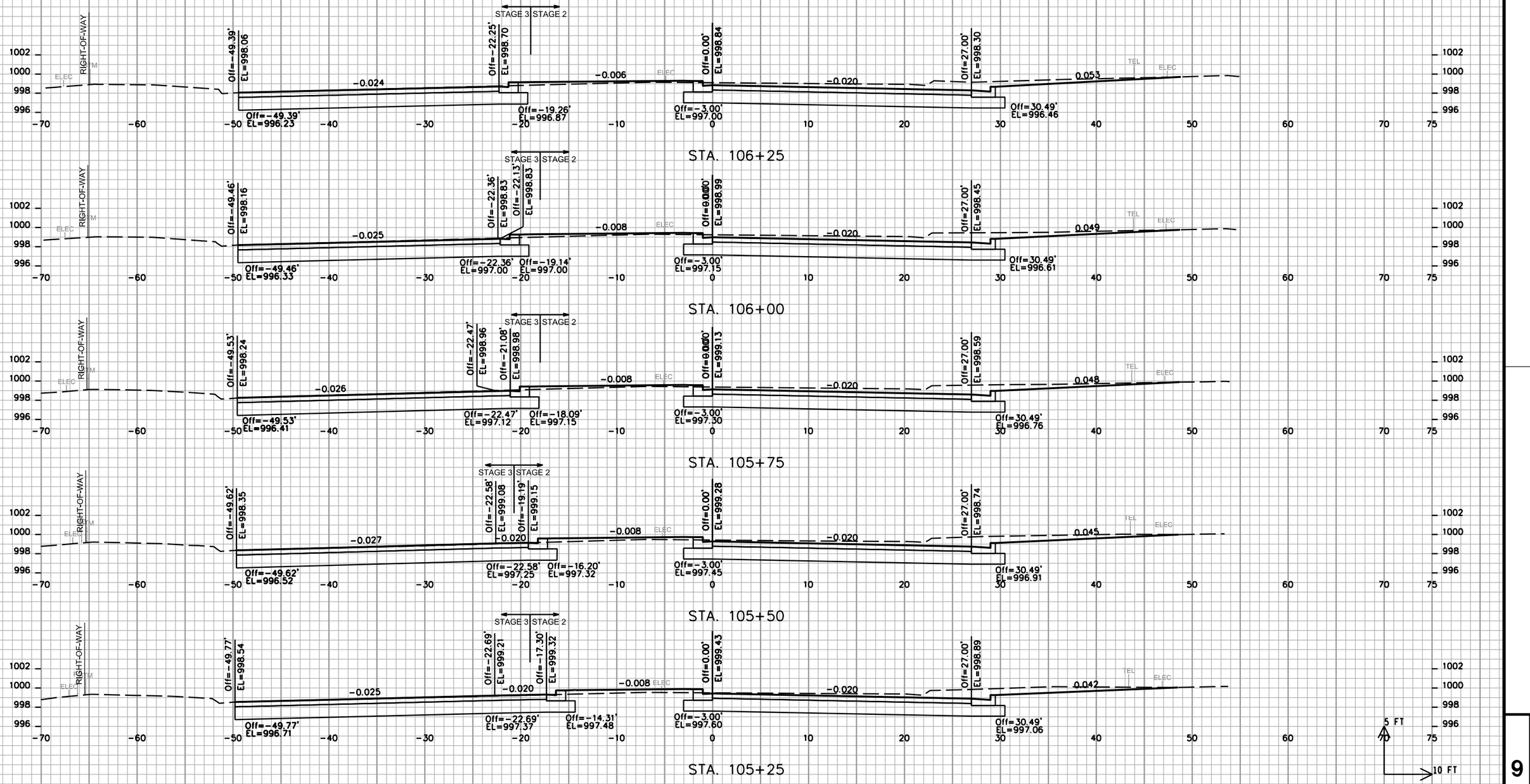
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 339	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



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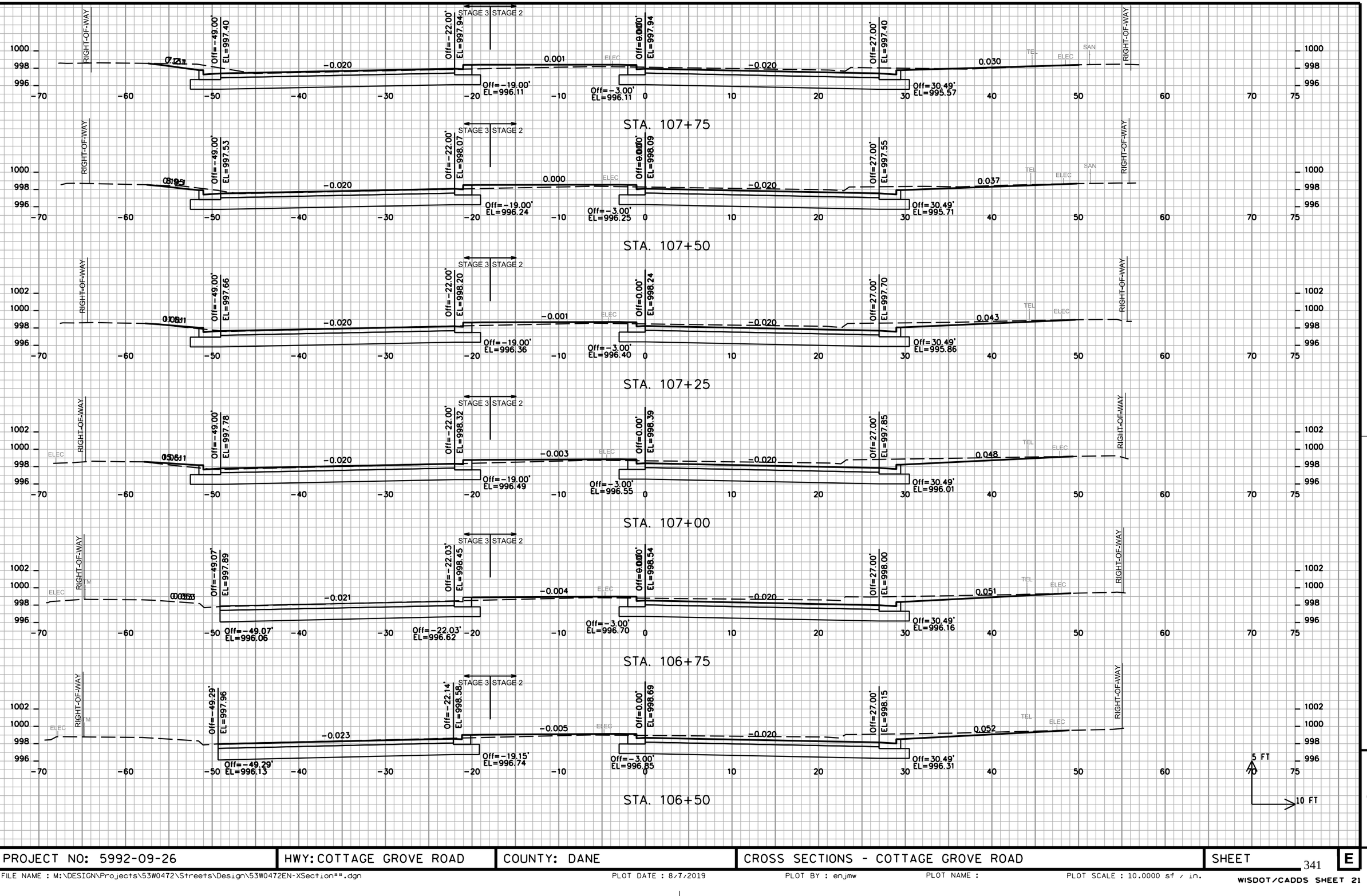
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 340	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

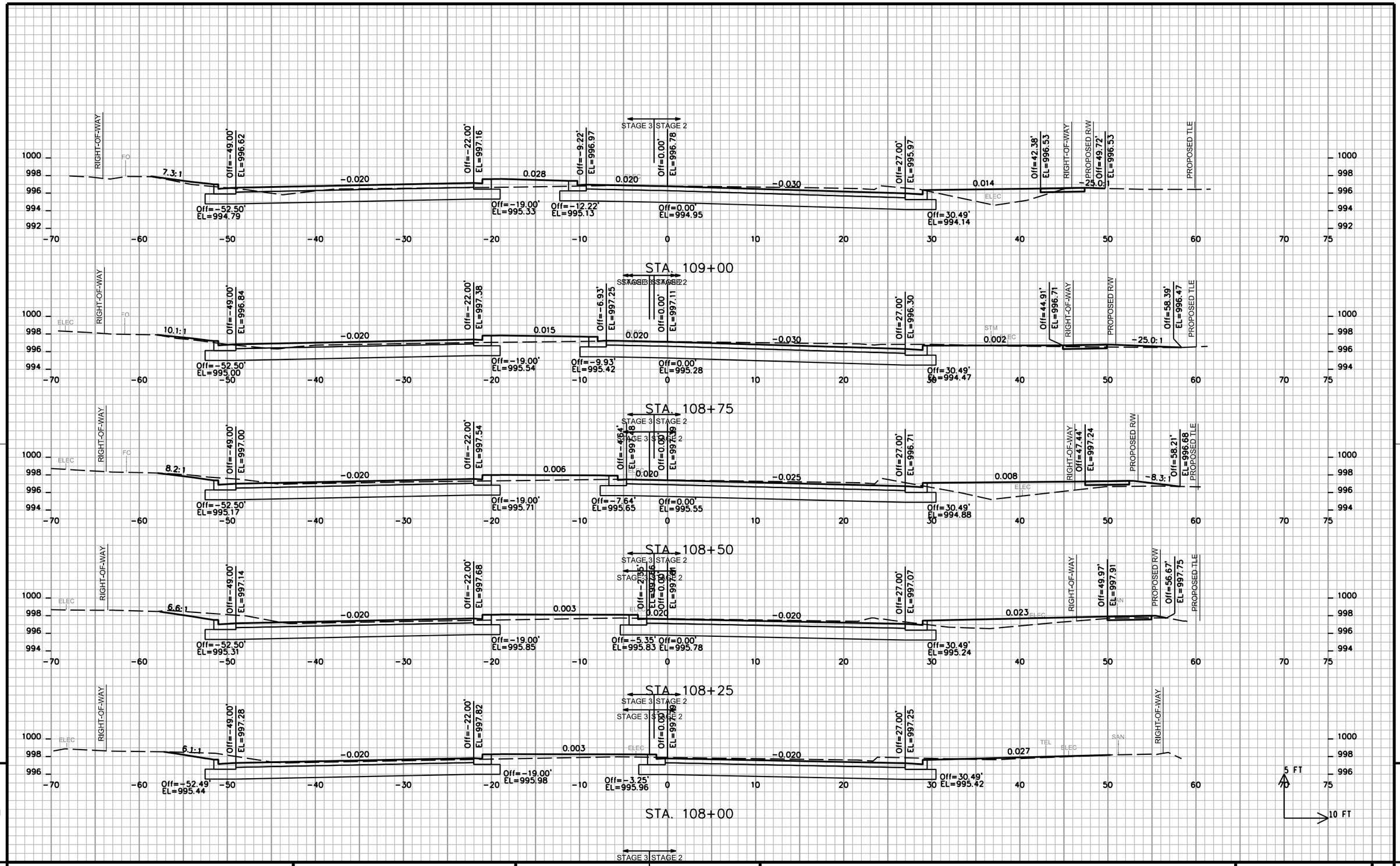
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

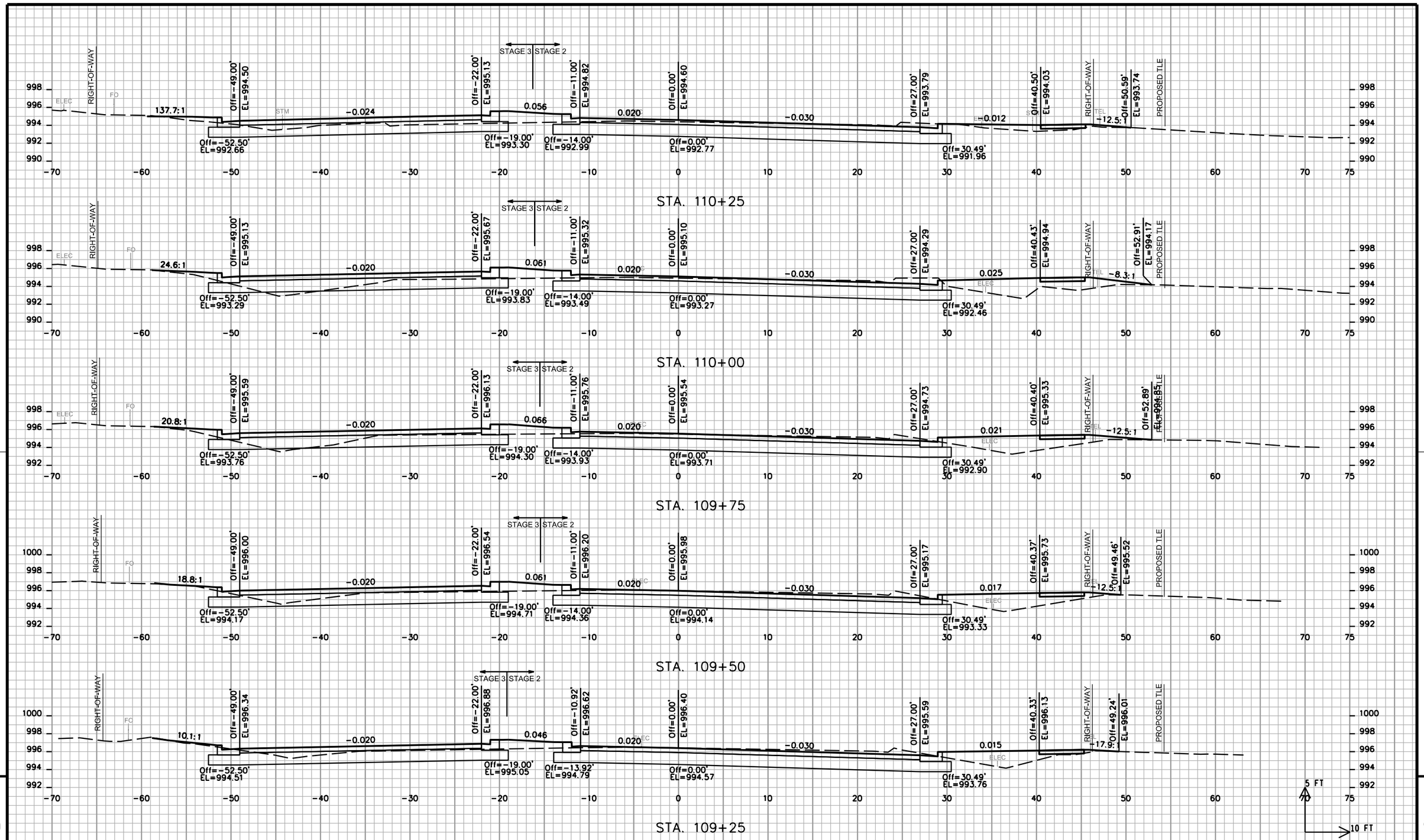
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

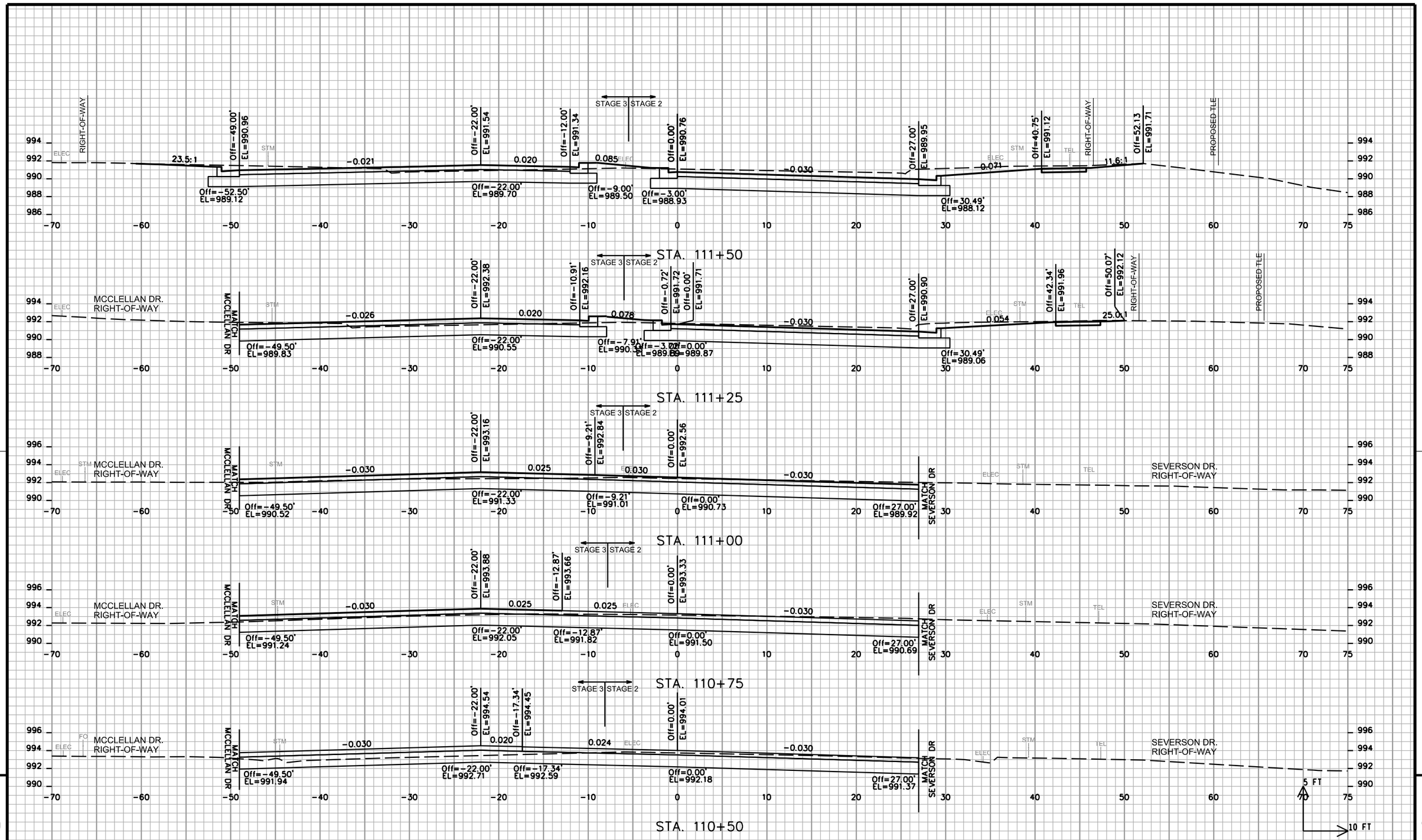
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

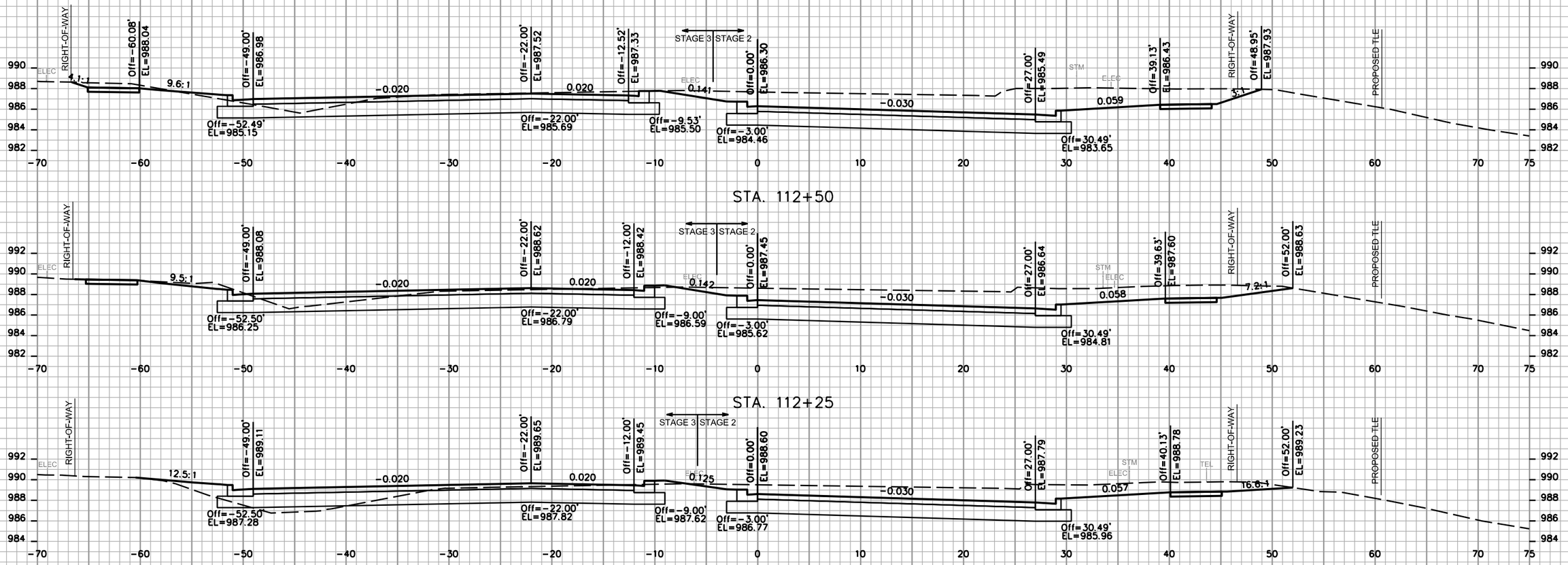
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 344 E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



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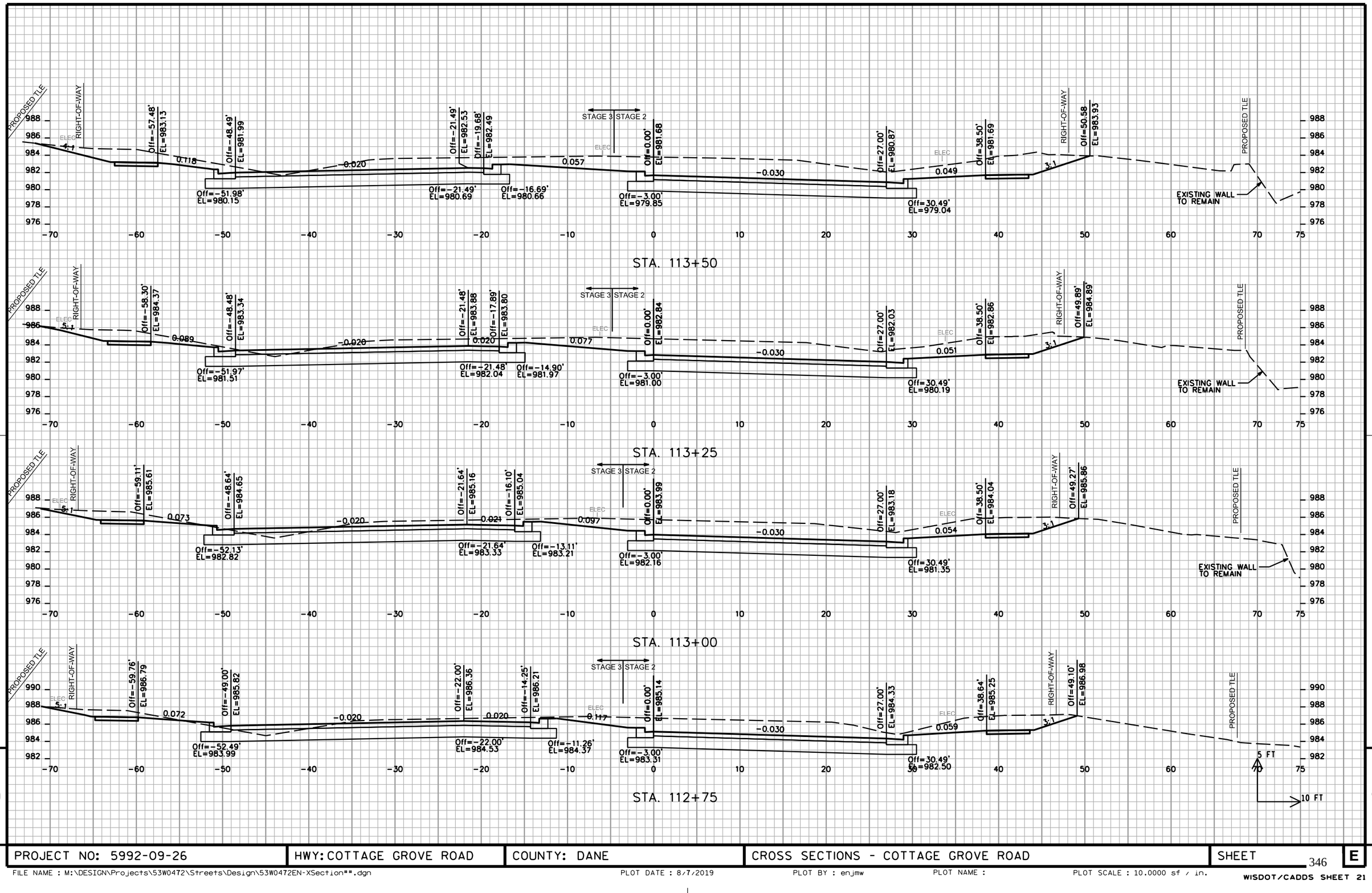
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 345	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

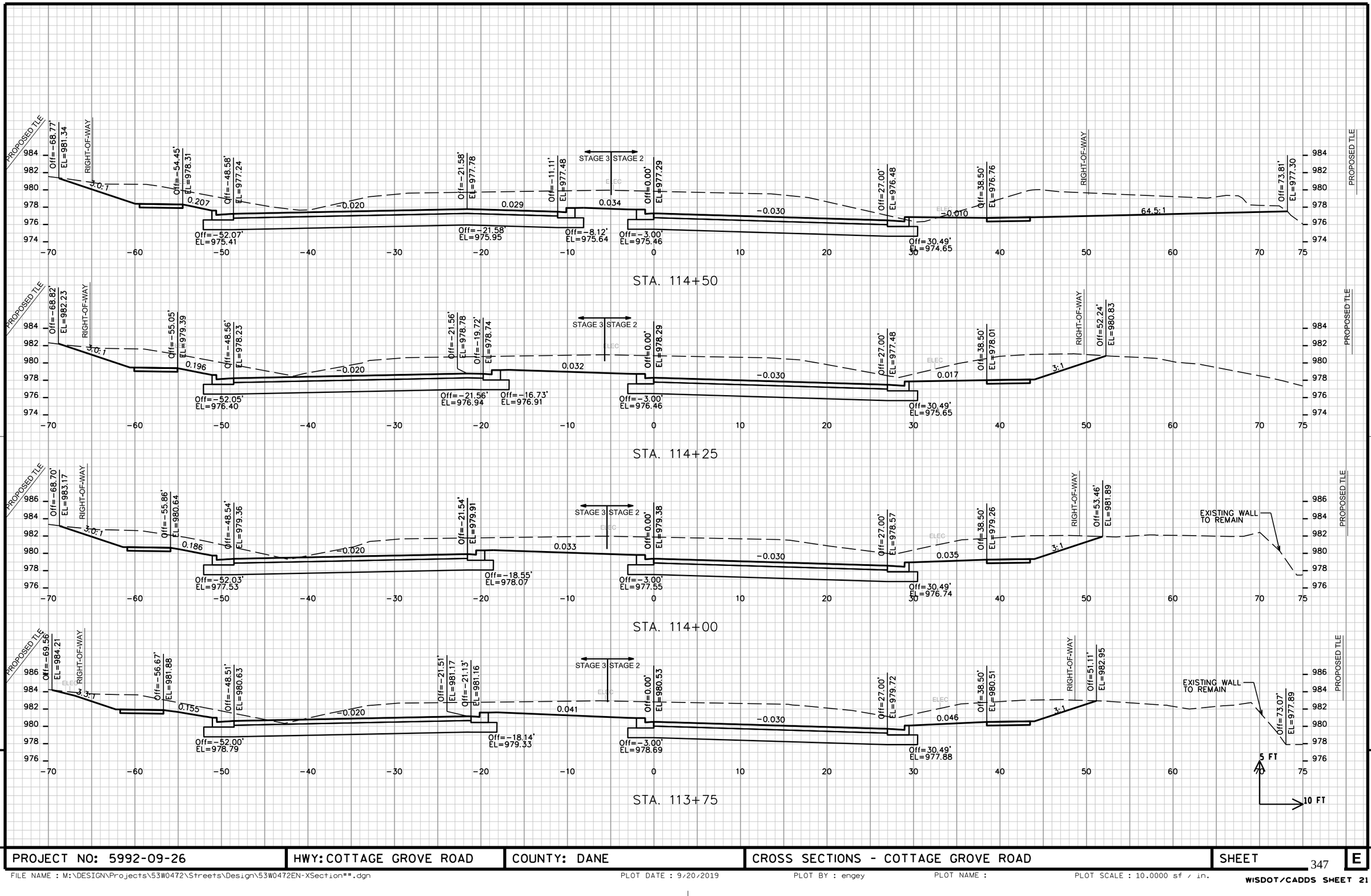
WISDOT/CADDS SHEET 21



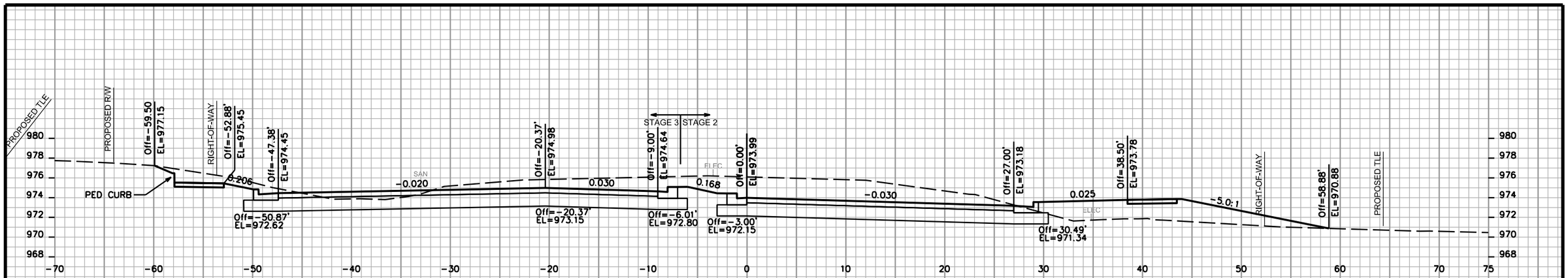
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 347	E



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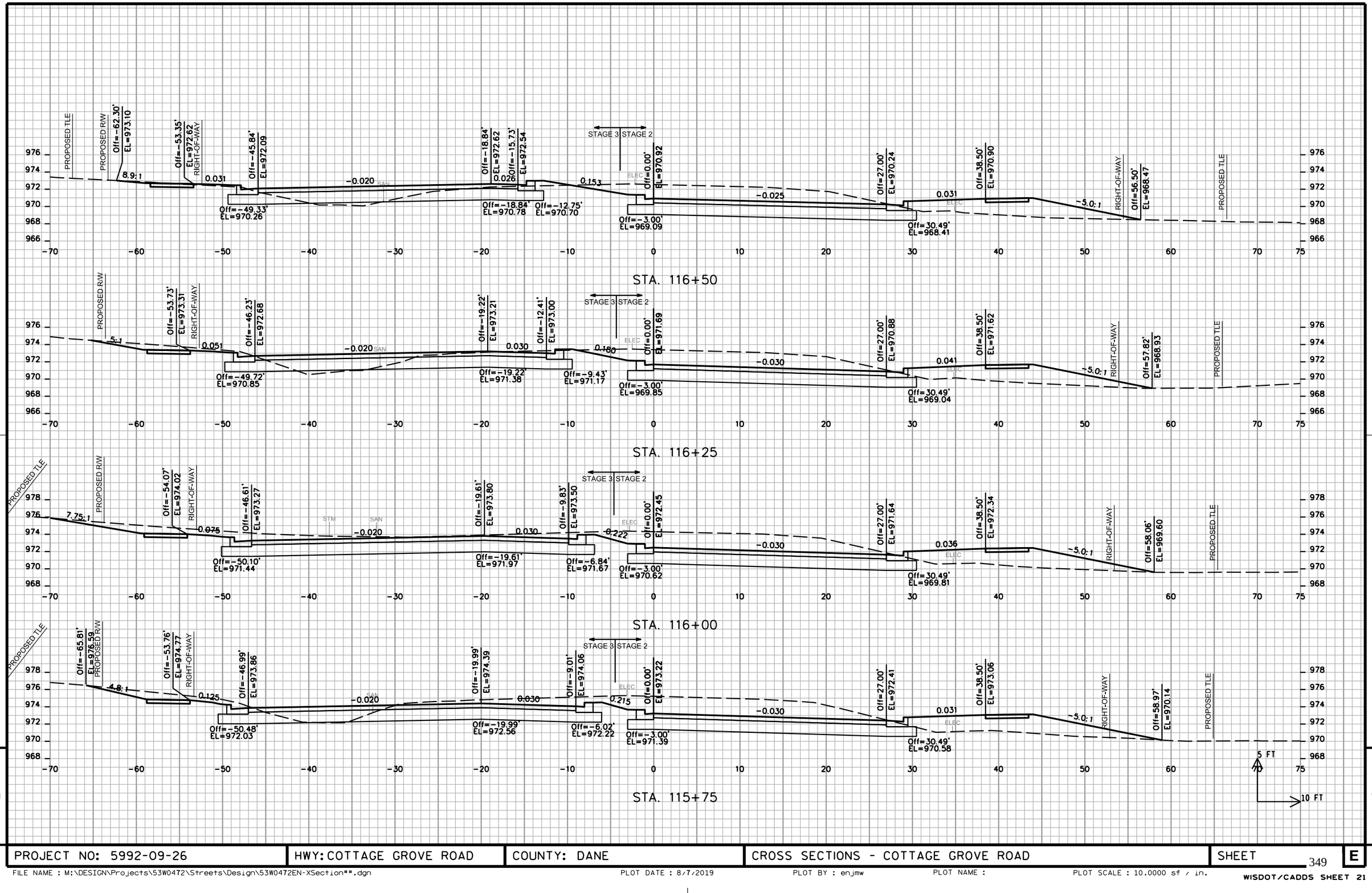
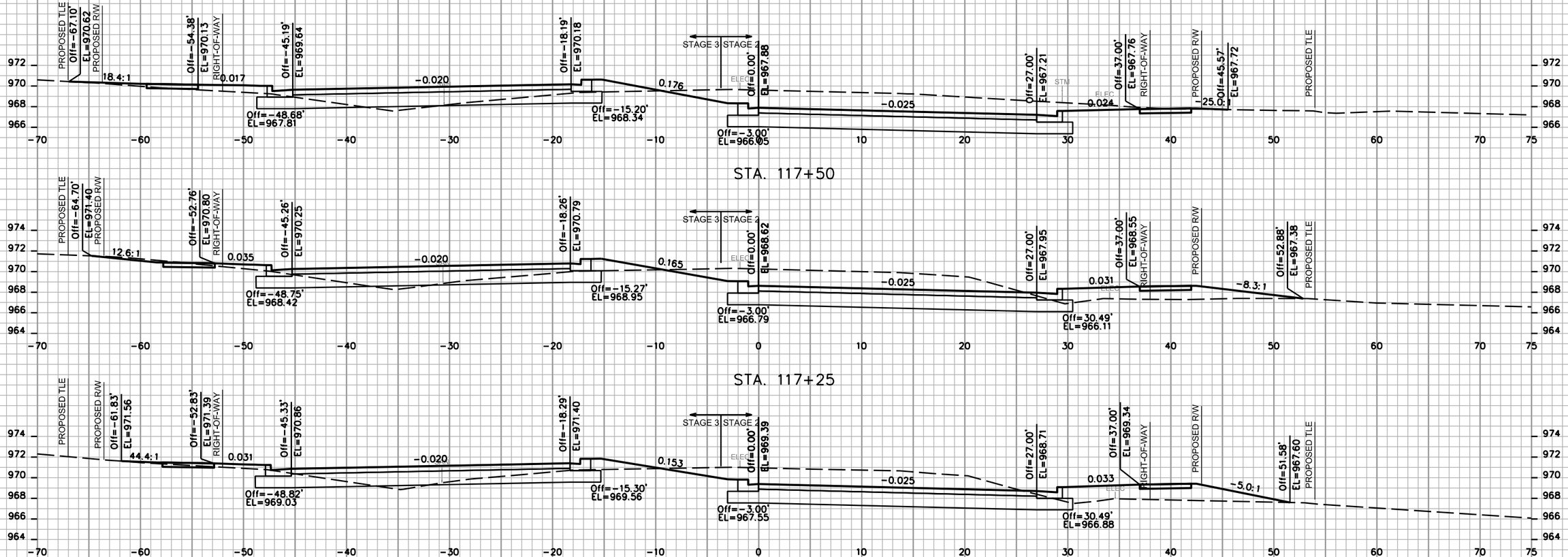
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 348	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21


STA. 116+50
PROPOSED TLE
PROPOSED R/W
Off=-62.30'
EL=973.10
8.9:1
Off=-53.35'
EL=972.62
RIGHT-OF-WAY
0.031
Off=-45.84'
EL=972.09
-0.020
SAN
Off=-49.33'
EL=970.26
Off=-18.84'
EL=972.62
0.026
Off=-15.73'
EL=972.54
Off=-18.84'
EL=970.78
Off=-12.75'
EL=970.70
STAGE 3
STAGE 2
0.153
ELEC
Off=0.00'
EL=970.92
Off=-3.00'
EL=969.09
-0.025
Off=27.00'
EL=970.24
Off=30.49'
EL=968.41
0.031
ELEC
Off=38.50'
EL=970.90
-5.0:1
RIGHT-OF-WAY
Off=56.50'
EL=968.47
PROPOSED TLE
STA. 116+25
PROPOSED R/W
5:1
Off=-53.73'
EL=973.31
RIGHT-OF-WAY
0.051
Off=-46.23'
EL=972.68
-0.020
SAN
Off=-49.72'
EL=970.85
Off=-19.22'
EL=973.21
0.030
Off=-12.41'
EL=973.00
Off=-19.22'
EL=971.38
Off=-9.43'
EL=971.17
STAGE 3
STAGE 2
0.180
ELEC
Off=0.00'
EL=971.69
Off=-3.00'
EL=969.85
-0.030
Off=27.00'
EL=970.88
Off=30.49'
EL=969.04
0.041
ELEC
Off=38.50'
EL=971.62
-5.0:1
RIGHT-OF-WAY
Off=57.82'
EL=968.93
PROPOSED TLE
STA. 116+00
PROPOSED TLE
PROPOSED R/W
7.75:1
Off=-54.07'
EL=974.02
RIGHT-OF-WAY
0.075
Off=-46.61'
EL=973.27
STM
SAN
-0.020
Off=-50.10'
EL=971.44
Off=-19.61'
EL=973.80
0.030
Off=-19.61'
EL=971.97
Off=-9.83'
EL=973.50
Off=-6.84'
EL=971.67
STAGE 3
STAGE 2
0.222
ELEC
Off=0.00'
EL=972.45
Off=-3.00'
EL=970.62
-0.030
Off=27.00'
EL=971.64
Off=30.49'
EL=969.81
0.036
ELEC
Off=38.50'
EL=972.34
-5.0:1
RIGHT-OF-WAY
Off=58.06'
EL=969.60
PROPOSED TLE
STA. 115+75
PROPOSED TLE
Off=-65.81'
EL=976.59
PROPOSED R/W
4.8:1
Off=-53.76'
EL=974.77
RIGHT-OF-WAY
0.125
Off=-46.99'
EL=973.86
SAN
-0.020
Off=-50.48'
EL=972.03
Off=-19.99'
EL=974.39
0.030
Off=-9.01'
EL=974.06
Off=-19.99'
EL=972.56
Off=-6.02'
EL=972.22
STAGE 3
STAGE 2
0.215
ELEC
Off=0.00'
EL=973.22
Off=-3.00'
EL=971.39
-0.030
Off=27.00'
EL=972.41
Off=30.49'
EL=970.58
0.031
ELEC
Off=38.50'
EL=973.06
-5.0:1
RIGHT-OF-WAY
Off=58.97'
EL=970.14
PROPOSED TLE
5 FT
10 FT



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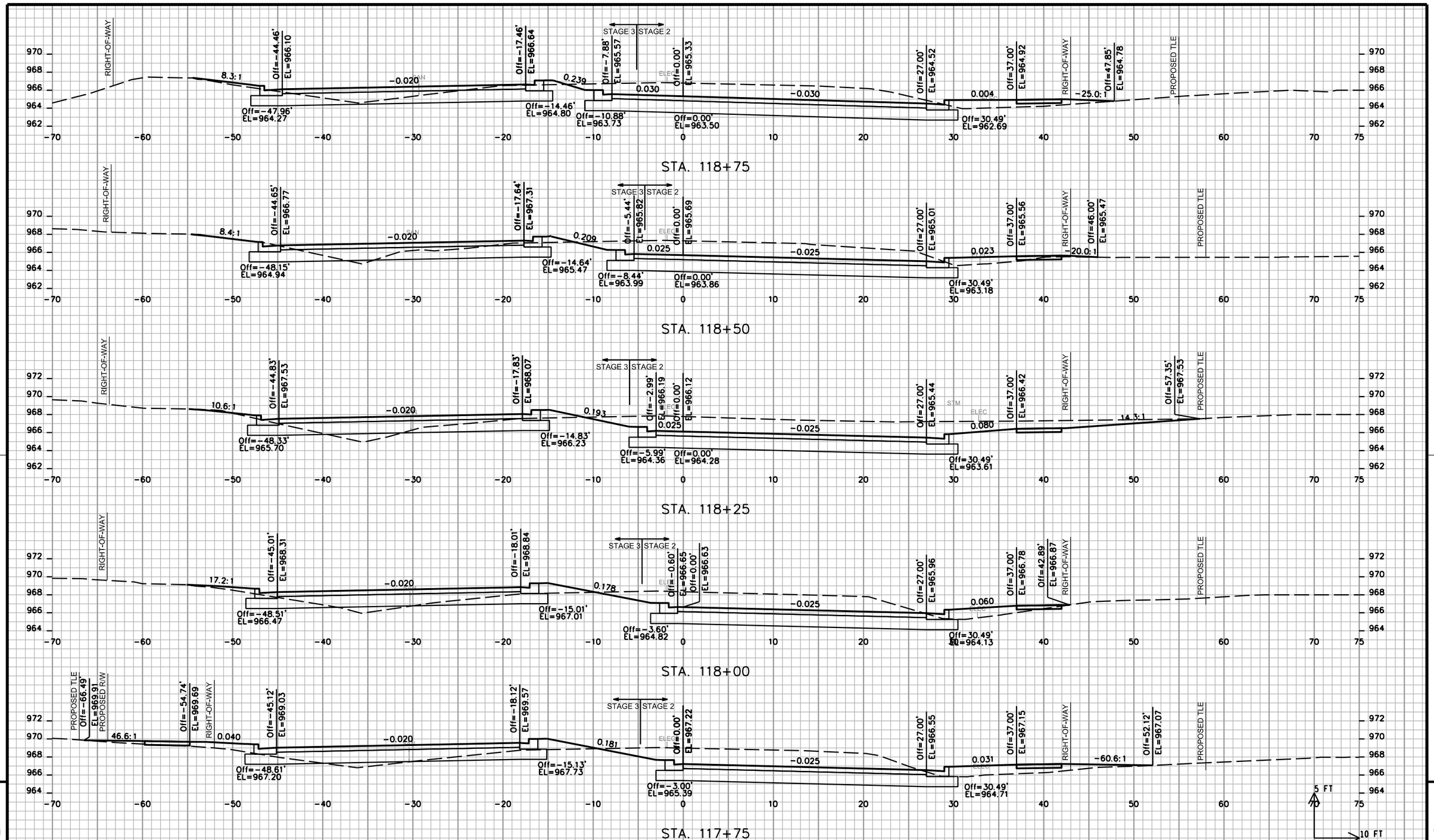
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 350	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

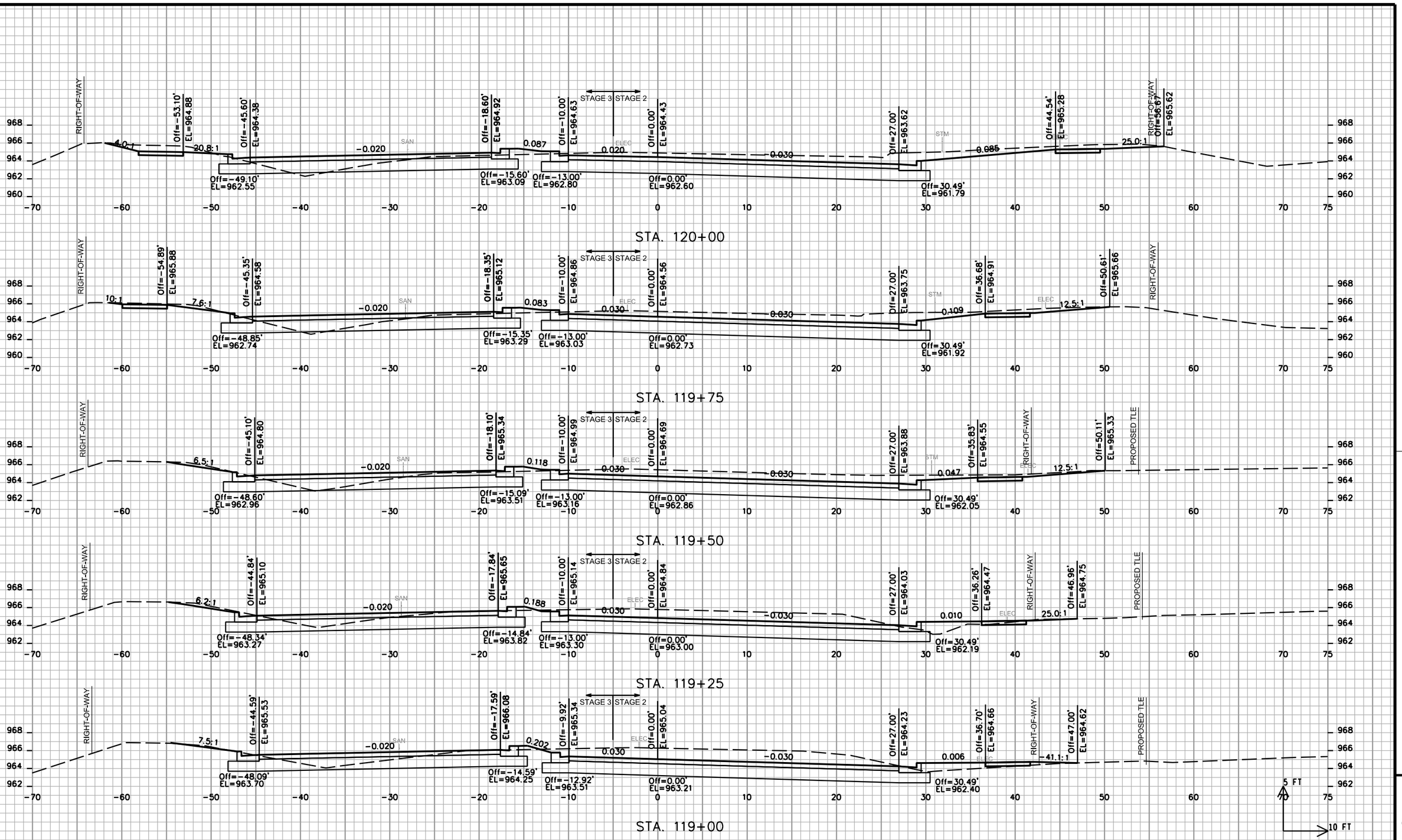
WISDOT/CADDS SHEET 21



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 351 E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

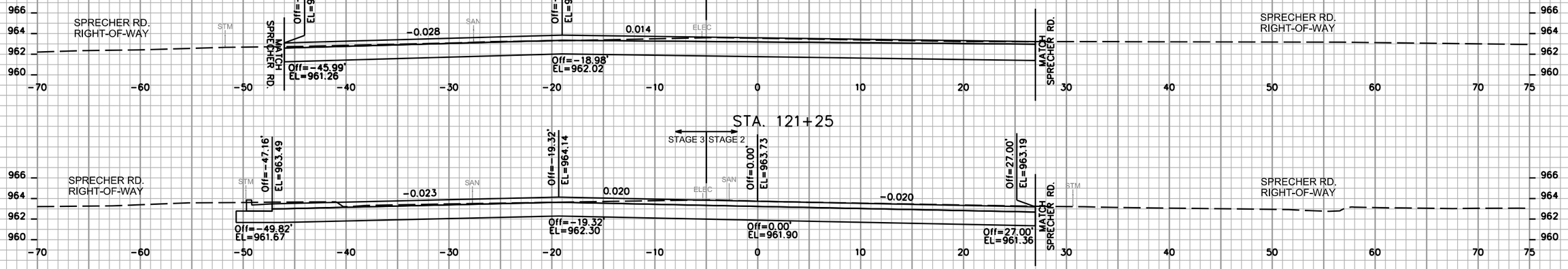


PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

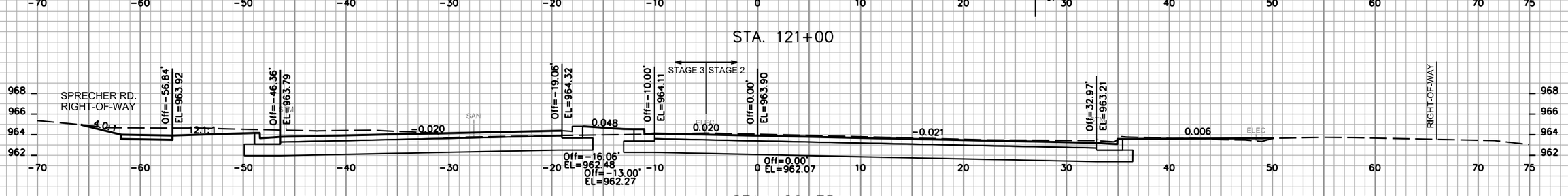
WISDOT/CADDS SHEET 21

STA. 121+25

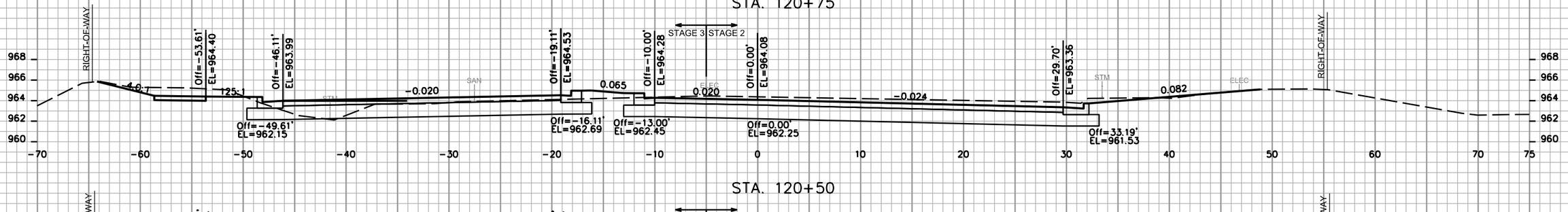


STA. 121+00

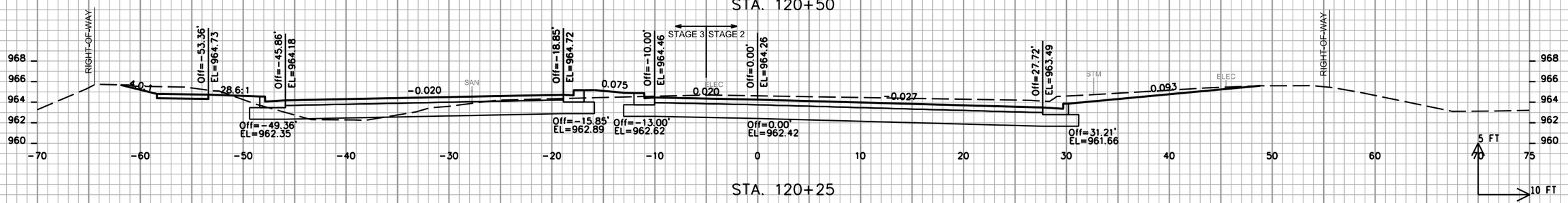
STA. 120+75



STA. 120+50



STA. 120+25



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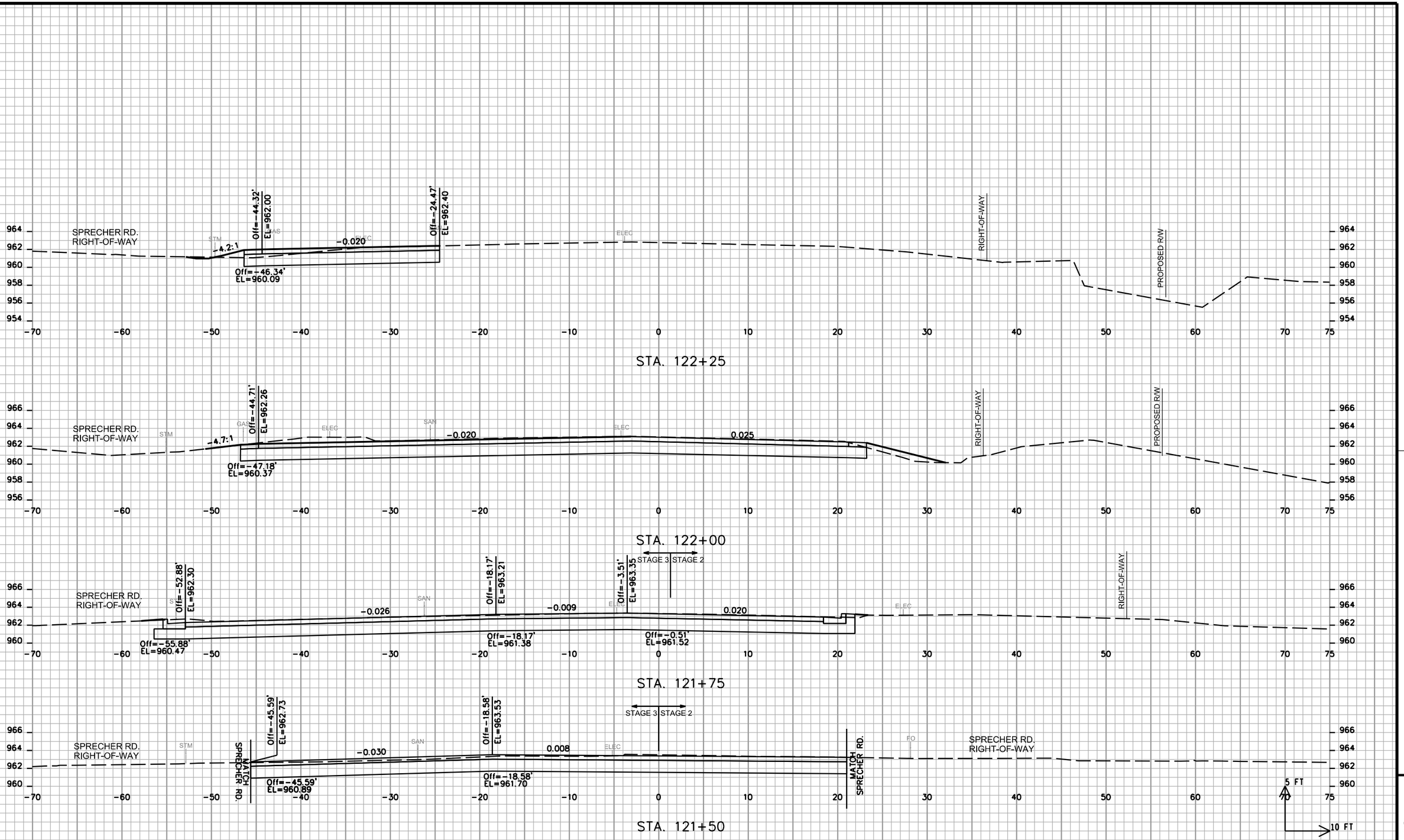
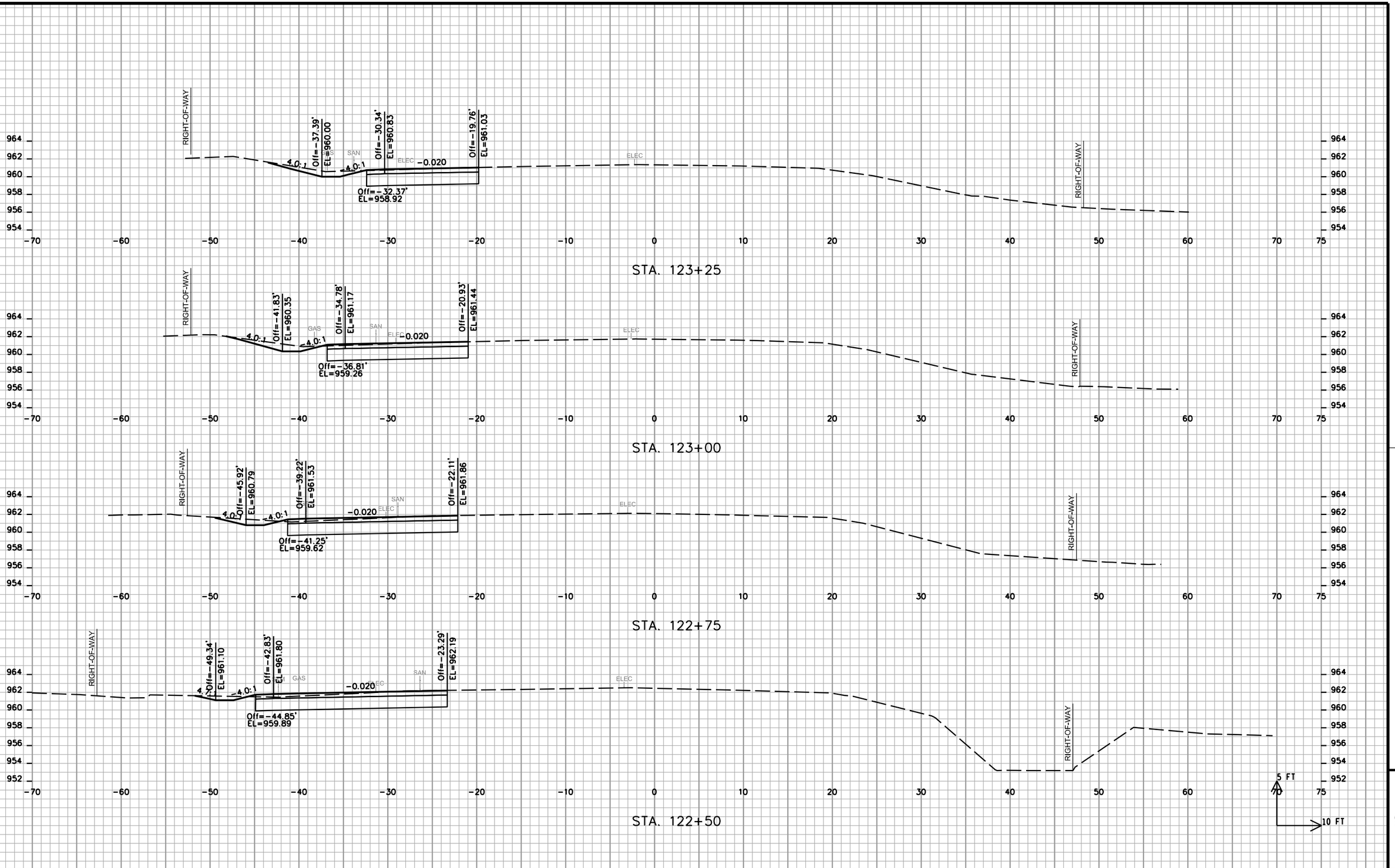
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 353	E



PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 354 E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



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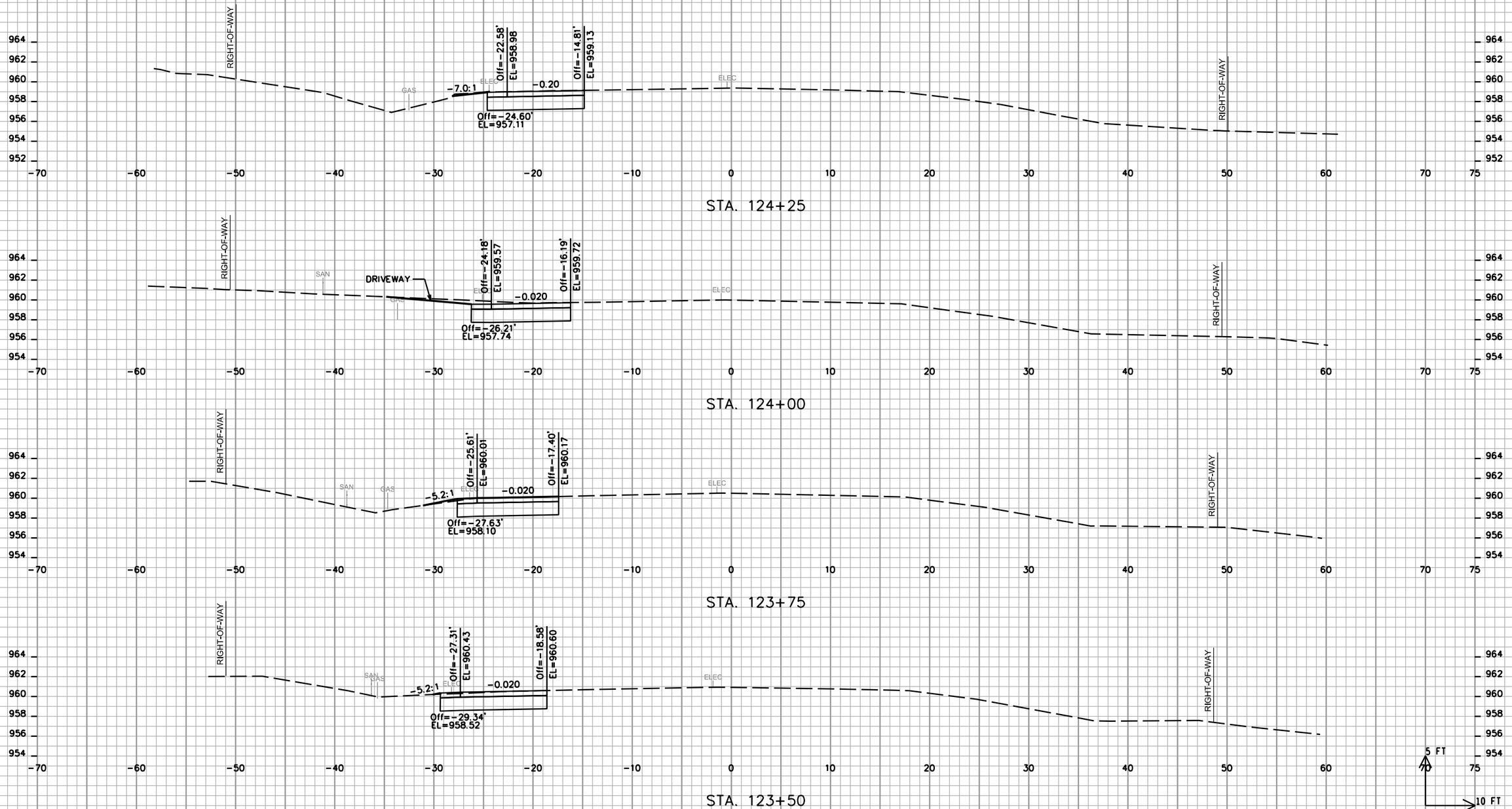
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 355	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



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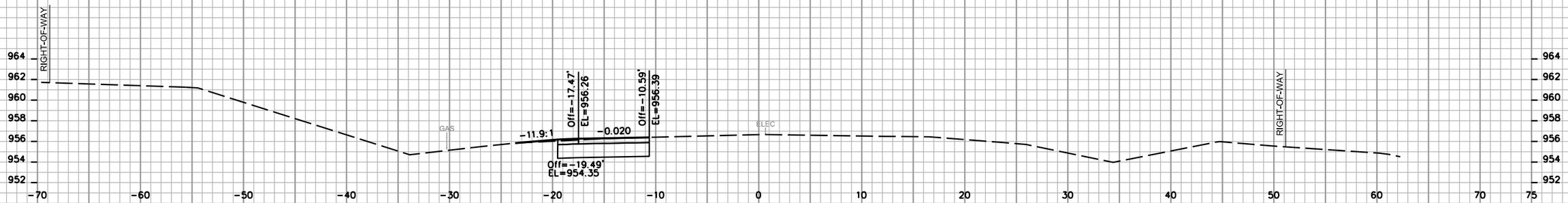
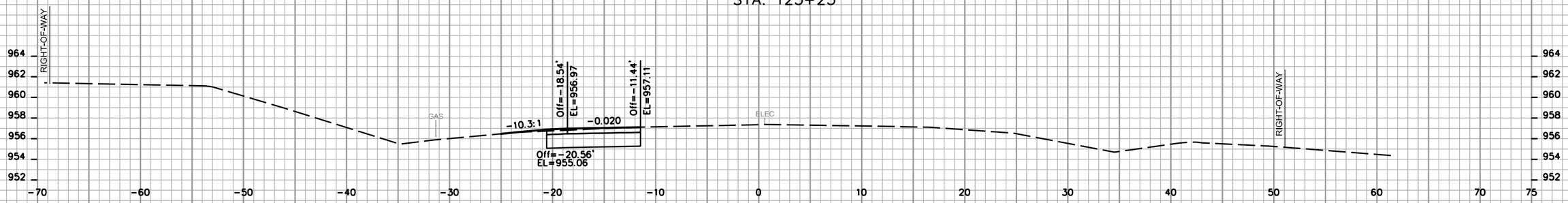
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 356	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn | PLOT DATE : 8/7/2019 | PLOT BY : enjmw | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

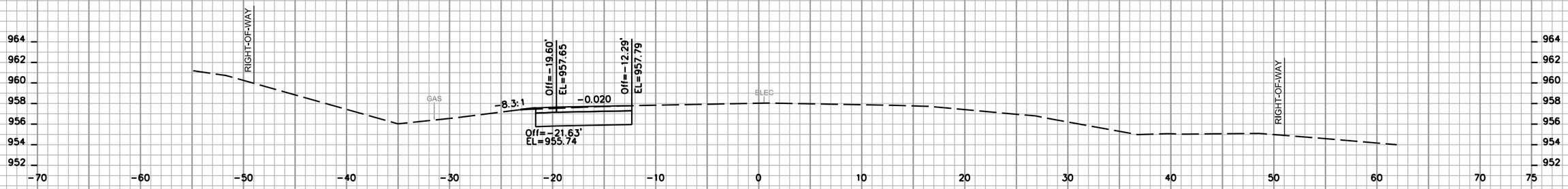
WISDOT/CADDS SHEET 21



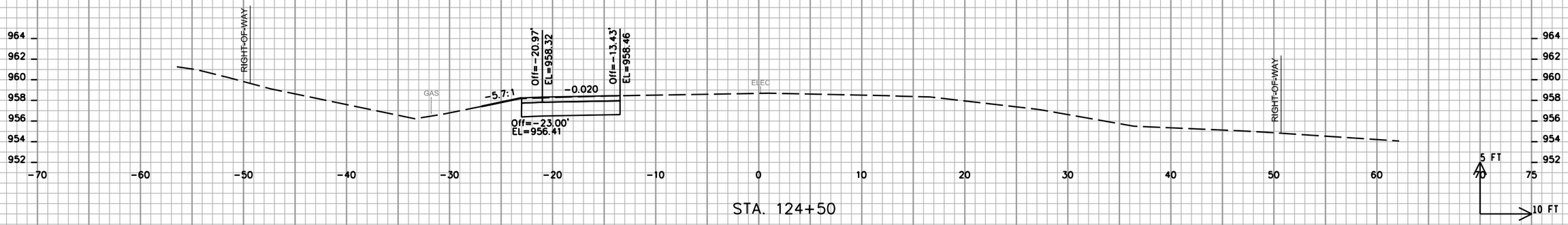
STA. 125+25



STA. 125+00



STA. 124+75



STA. 124+50

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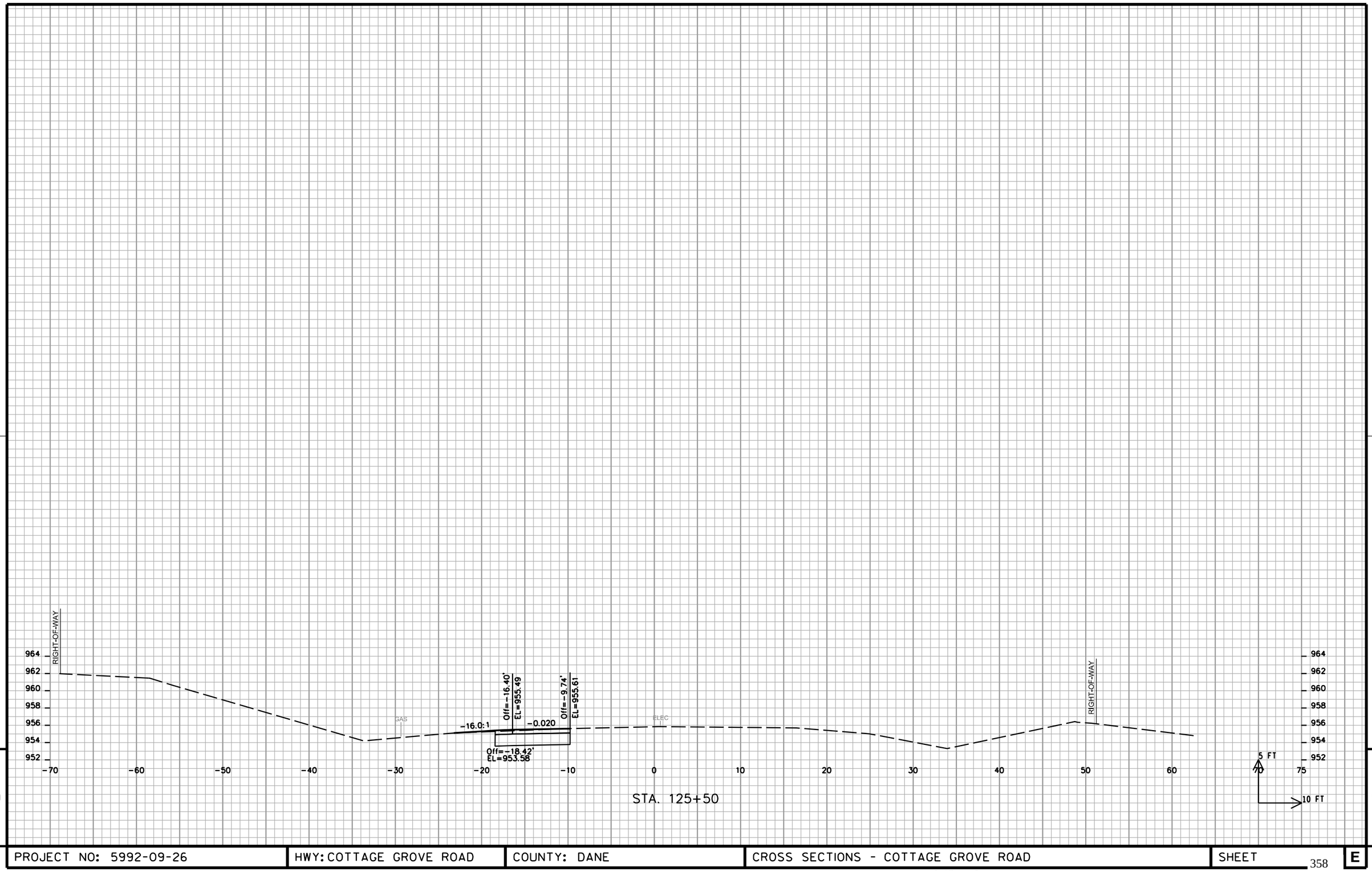
PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 357	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



STA. 125+50

9

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PROJECT NO: 5992-09-26	HWY: COTTAGE GROVE ROAD	COUNTY: DANE	CROSS SECTIONS - COTTAGE GROVE ROAD	SHEET 358	E

FILE NAME : M:\DESIGN\Projects\53W0472\Streets\Design\53W0472EN-XSection**.dgn PLOT DATE : 8/7/2019 PLOT BY : enjmw PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

Notes

Wisconsin Department of Transportation

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