WKE

MAY 2016

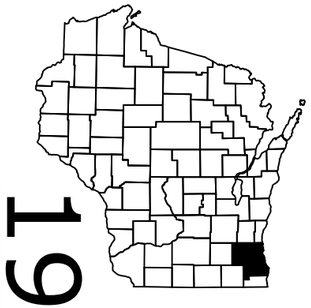
PROJECT ID: 2240-13-60

COUNTY: RACINE, WAUK, MILW

ORDER OF SHEETS

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

TOTAL SHEETS = 564



19

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DESIGN DESIGNATION		COUNTY Y - MUSKEGO DAM RD.	MUSKEGO DAM RD. - COUNTY OO	COUNTY OO - WIS 100
A.A.D.T.	2015	= 13,500	= 16,300	= 21,000
A.A.D.T.	2035	= 16,500	= 19,800	= 23,900
D.H.V.		= 1,650	= 1,980	= 2,390
D.D.		= 59/41	= 59/41	= 59/41
T.		= 5.4%	= 5.4%	= 5.4%
DESIGN SPEED		= 55 MPH	= 55 MPH	= 55 MPH
ESALS		= 2,018,085	= 2,428,429	= 2,861,432

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

LOOMIS ROAD, CITY OF MUSKEGO

CTH Y TO STH 100

STH 36

RACINE, WAUKESHA, MILWAUKEE COUNTIES

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2240-13-60	———	———

STATE PROJECT NUMBER
2240-13-60

STRUCTURES
NB: B-67-241
STA 743+55 TO STA 743+94
SB: B-67-100
STA 744+60 TO STA 744+98

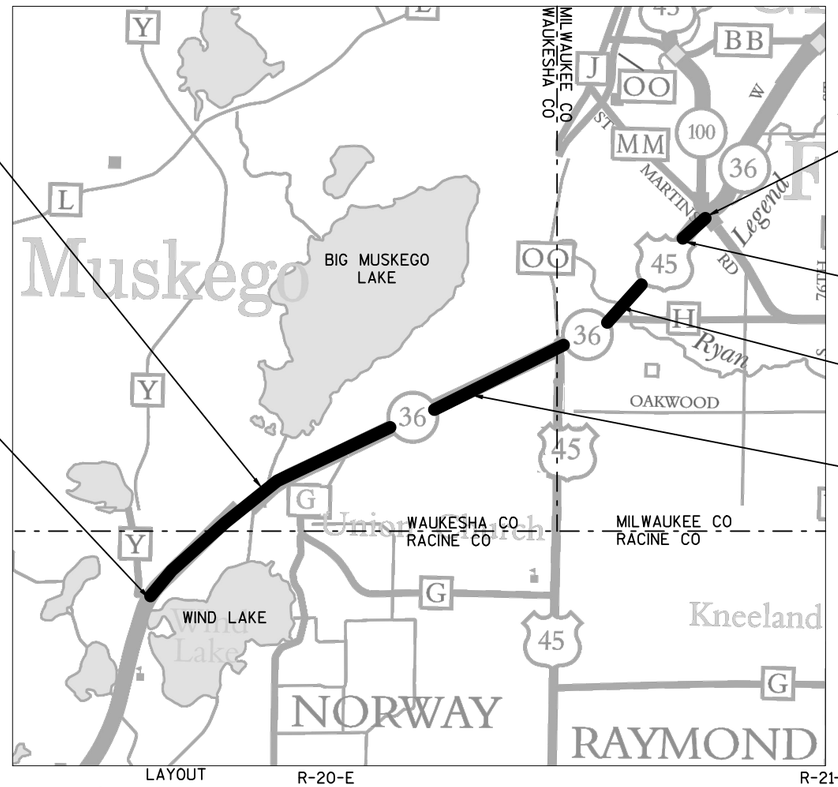
BEGIN PROJECT
STA 663+50
Y= 223,717.577
X= 540,058.061

T-5-N
END PROJECT
STA 1047+05
Y= 244,852.405
X= 571,172.421

BOX CULVERT
C-40-02
STA 1020+42

BOX CULVERT
C-40-01
STA 979+95

BOX CULVERT
C-67-15
STA 874+85



TOTAL NET LENGTH OF CENTERLINE = 7.264 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, RACINE/MILWAUKEE COUNTY, NAD83 (2007), IN U.S. SURVEY FEET.
ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88 (2007)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	MSA PROFESSIONAL SERVICES/WISDOT
Designer	WISDOT
Project Manager	GARY METZER
Regional Examiner	WISDOT
Regional Supervisor	JANET CANNON

APPROVED FOR THE DEPARTMENT

DATE February 1, 2016 (signature)

E

UTILITY CONTACTS:

ATC MANAGEMENT, INC.
MIKE OLSEN
801 O'KEEFE ROAD
PO BOX 6113
DEPERE, WI 54115-6113
PHONE: (920) 338-6582
EMAIL: MOLSEN@ATCLLC.COM

AT&T WISCONSIN - COMMUNICATION LINE
ALPER KOLCU
2005 PEWAUKEE RD
WAUKESHA, WI 53188
PHONE: (262) 970-8494
PHONE: (262) 352-3791
EMAIL: AK308X@ATT.COM

CITY OF FRANKLIN
GLEN MORROW
9229 W LOOMIS ROAD
FRANKLIN, WI 53132
PHONE: (414) 425-7510
EMAIL: GMORROW@FRANKLINWI.GOV

CITY OF MUSKEGO - SEWER AND WATER UTILITIES
SCOTT KLOSKOWSKI
PO BOX 749
MUSKEGO, WI 53150-749
PHONE: (262) 679-4149
EMAIL: SKLOSKOWSKI@CI.MUSKEGO.WI.US

MILWAUKEE METRO SEWERAGE DIST.
SEND ALL CORRESPONDENCE TO:
DEBRA JENSEN
260 W SEEBOTH ST
MILWAUKEE, WI 53204-1446
PHONE: (414) 272-5100

CONSTRUCTION FIELD CONTACT:
ROBERT REBITSKI
260 W SEEBOTH ST
MILWAUKEE, WI 53204-1446
PHONE: (414) 617-1438
EMAIL: BREBITSKI@MMSD.COM

TIME WARNER CABLE
STEVEN CRAMER
1320 N DR. MARTIN LUTHER KING JR DR.
MILWAUKEE, WI 53212-4002
PHONE: (414) 277-4045
EMAIL: STEVE.CRAMER@TWCABLE.COM

WE ENERGIES (ELECTRIC)
SEND ALL CORRESPONDENCE TO:
LATROY BRUMFIELD
333 W. EVERETT ST - ROOM A299
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
EMAIL: LATROY.BRUMFIELD@WE-ENERGIES.COM

CONSTRUCTION FIELD CONTACT:
BRYAN STOEHR
2890 BERWICK CT
BROOKFIELD, WI 53045
PHONE: (414) 416-6059
EMAIL: BRYAN.STOEHR@WE-ENERGIES.COM

WE ENERGIES (GAS)
SEND ALL CORRESPONDENCE TO:
LATROY BRUMFIELD
333 W. EVERETT ST - ROOM A299
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
EMAIL: LATROY.BRUMFIELD@WE-ENERGIES.COM

CONSTRUCTION FIELD CONTACT:
TYLER ROEBKE
500 S. 116TH ST.
WEST ALLIS, WI 53214
PHONE: (262) 424-9420
EMAIL: TYLER.ROEBKE@WE-ENERGIES.COM

WEST SHORE PIPELINE COMPANY
SEND ALL CORRESPONDENCE TO:
JEANNETTE FLUKE
FIVE TEK PARK, 9999 HAMILTON BLVD
BREINIGSVILLE, PA 18031
PHONE: (610) 904-4404
EMAIL: JFLUKE@BUCKEYE.COM

CONSTRUCTION FIELD CONTACT:
ARIC AUFDERMAUER
11115 W. COUNTY LINE RD.
MILWAUKEE, WI 53224
PHONE: (414) 391-8102
EMAIL: AAUFDERMAUER@BUCKEYE.COM

CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING:

LOCATION	UPPER LAYER HMA	UPPER LAYER DEPTH	LOWER LAYER HMA	LOWER LAYER DEPTH
2-INCH RESURFACING	4 MT 58-28 S	2-INCH	--	--
4-1/4-INCH SHOULDER WIDENING	4 MT 58-28 S	2-INCH	3 MT 58-28 S	2-1/4-INCH
6-INCH RECONSTRUCTION	4 MT 58-28 S	2-INCH	3 MT 58-28 S	4-INCH

ORDER OF SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
MEDIAN BEAM GUARD REPLACEMENT
RECONSTRUCTION DETAIL
TEMPORARY CROSSOVER CONSTRUCTION
TEMPORARY CROSSOVER REMOVAL
EROSION CONTROL DETAILS
TEMPORARY STORM SEWER
STORM SEWER
PERMANENT SIGNING
LIGHTING PLAN
TRAFFIC SIGNALS
PAVEMENT MARKING
CONSTRUCTION STAGING
TRAFFIC CONTROL
ALIGNMENT

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

2

GENERAL NOTES:

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

THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER AND SEWRPC (JOHN WASHBURN) AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

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

OBTAIN APPROVAL FROM THE ENGINEER FOR THE LOCATIONS OF LONGITUDINAL JOINTS IN THE HMA PAVEMENT.

CURB AND GUTTER GRADES ARE GIVEN AT THE FLANGE LINE. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE.

TRAFFIC CONTROL LOCATIONS AS SHOWN IN THE PLAN ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

FIELD VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN PRIOR TO ORDERING DRAINAGE STRUCTURES.

PIPE AND INVERT ELEVATIONS SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER.

NO TREES OR SHRUBS SHALL BE REMOVED UNLESS DESIGNATED FOR REMOVAL BY THE ENGINEER.

WHEN TEMPORARY PAVEMENT MARKING REMOVABLE TAPE IS REQUIRED, IT SHALL BE CUT THROUGH IT'S FULL WIDTH AND THICKNESS AT 25 FOOT INTERVALS.

DO NOT USE FERTILIZER WITHIN 20' OF WATERWAYS OR WETLAND AREAS.

USE SEED MIXTURE NO. 60 FOR WETLAND AREAS AND WITHIN 20' OF WETLAND AREAS.

IMMEDIATELY AFTER CONSTRUCTION OF ANY INLET, CONSTRUCT THE INLET PROTECTION TO MINIMIZE SEDIMENTATION IN THE INLET AND STORM SEWER.

FOR GRADING AREAS ADJACENT TO OR CONTAINING WETLANDS, FLOODPLAINS, OR WATERWAYS, COMPLETE ROUGH GRADING THROUGH FINISHED LANDSCAPING WITHIN FOURTEEN (14) CALENDAR DAYS.

FOR ALL OTHER GRADING AREAS, IF THE DURATION FROM BEGINNING ROUGH GRADING TO COMPLETING FINAL LANDSCAPING WILL BE LONGER THAN 14 DAYS, WITH 3 DAYS OF BEGINNING ROUGH GRADING SEED THE AREA WITH TEMPORARY SEED AND MULCH.

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLAND, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS TO BE LEFT FOR MORE THAN FOURTEEN (14) CALENDARD DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH WITHIN 3 DAYS OF CREATION.

EROSION CONTROL BMP'S ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE MAINTANINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.

SEE GEOTECHNICAL ENGINEERING REPORT FOR SOIL INFORMATION. REPORT IS AVAILABLE FROM THE SOUTHEAST REGION SOILS ENGINEER CASEY WIERZCHOWSKI, PHONE 262-521-4427 OR EMAIL CASEY.WIERZCHOWSKI@DOT.WI.GOV

TINING ON CONCRETE PAVEMENT REPAIR AND CONCRETE PAVEMENT REPLACEMENT SHALL BE TRANSVERSE TINING.

OTHER CONTACTS:

RACINE COUNTY
JULIE ANDERSON
14200 WASHINGTON AVE
STURTEVANT, WI 53177
PHONE: (262) 886-8440
EMAIL: JULIE.ANDERSON@GORACINE.ORG

WAUKESHA COUNTY
GARY EVANS
515 W. MORELAND BLVD
WAUKESHA , WI 53188
PHONE: (262) 548-7746
EMAIL: GEVANS@WAUKESHACOUNTY.GOV

MILWAUKEE COUNTY DEPT. OF TRANSPORTATION
GREG HEISEL
10190 WEST WATERTOWN PLANK ROAD
WAUWATOSA, WI 53226
PHONE: (414) 257-6566
EMAIL: GREGORY.HEISEL@MILWAUKEECOUNTYWI.GOV

TOWN OF NORWAY
SCOTT LAUX
6419 HEG PARK ROAD
WIND LAKE, WI 53185
PHONE: (262) 895-6335
EMAIL: PUBLICWORKS@TOWNOFNORWAY.ORG

CITY OF MUSKEGO
DAVID SIMPSON
W182 S8200 RACINE AVE
PO BOX 749
MUSKEGO, WI 53150
PHONE: (262) 679-4145
EMAIL: DSIMPSON@CITYOFMUSKEGO.ORG

CITY OF FRANKLIN
GLEN MORROW
9229 W. LOOMIS ROAD
FRANKLIN, WI 53132
PHONE: (414) 425-7510
EMAIL: GMORROW@FRANKLINWI.GOV

RACINE COUNTY SHERIFF
OFFICE
717 WISCONSIN AVE
RACINE, WI 53403
PHONE: (262) 636-3822
EMAIL: RCSHERIFF@GORACINE.ORG

WAUKESHA COUNTY SHERIFF
OFFICE
515 W. MORELAND BLVD.
WAUKESHA , WI 53188
PHONE: (262) 548-7122
EMAIL: SHERIFF@WAUKESHACOUNTY.GOV

FRANKLIN POLICE DEPARTMENT
OFFICE
9455 W. LOOMIS ROAD
FRANKLIN , WI 53132
PHONE: (414) 425-2522

MUSKEGO POLICE DEPARTMENT
OFFICE
W183 S8150 RACINE AVE
MUSKEGO, WI 53150
PHONE: (262) 679-4130

NORWAY POLICE DEPARTMENT
OFFICE
6419 HEG PARK ROAD
WIND LAKE, WI 53185
PHONE: (262) 895-2195
EMAIL: POLICECHIEF@TOWNOFNORWAY.ORG

WIND LAKE VOLUNTEER FIRE CO.
CHIEF ROB ROBINS
7857 S. LOOMIS ROAD
WIND LAKE, WI 53185
PHONE: (262) 895-7533
EMAIL: WLFDCLERK@WI.RR.COM

TESS CORNERS VOLUNTEER FIRE #2
CHIEF CARL WOJNOWSKI
S100 W13444 LOOMIS RD
MUSKEGO, WI 53150
PHONE: (414) 529-0450

TESS CORNERS VOLUNTEER FIRE #4
CHIEF CARL WOJNOWSKI
W196 S10030 RACINE AVE
MUSKEGO, WI 53150
PHONE: (262) 679-4117

FRANKLIN FIRE DEPARTMENT
CHIEF ADAM REMINGTON
8901 W. DREXEL AVE
FRANKLIN, WI 53132
PHONE: (414) 425-1420

WI DNR LIASON
CRAIG WEBSTER
141 NW BARSTOW STREET, ROOM 180
WAUKESHA, WI 53188
PHONE: (262) 574-2141
EMAIL: CRAIG.WEBSTER@DNR.WISCONSIN.GOV

WISDOT PROJECT MANAGER
GARY METZER
141 NW BARSTOW STREET
WAUKESHA, WI 53187
PHONE: (262) 548-5685
EMAIL: GARY.METZER@DOT.WI.GOV

WISDOT SIGNALS
WISDOT SIGNAL OPERATIONS
141 NW BARSTOW STREET
PO BOX 798
WAUKESHA, WI 53187-0798
PHONE: (414) 750-2605
PHONE: (414) 266-1170

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
JOHN WASHBURN
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE: (262) 953-4295
EMAIL: JWASHBURN@SEWRPC.ORG

2

2

LEGEND

RESURFACING

CONCRETE PAVEMENT REPAIR/ REPLACEMENT

RECONSTRUCTION

N

CITY OF MUSKEGO

STA 874+85
C-67-15
CONCRETE SURFACE REPAIR
WING WALL STRAPPING
(UNNAMED TRIBUTARY TO
BIG MUSKEGO LAKE)

THODE DRIVE
STA 832+90

STA 787+40

MUSKEGO DAM ROAD
STA 778+20

STA 744+00
B-67-100
B-67-241
CONCRETE SURFACE REPAIR

STA 767+00

MUSKEGO CANAL

CTH G
STA 795+00

OLD LOOMIS DRIVE

STA 811+70

STA 900+92

CHAMPIONS DRIVE
STA 903+00

STA 904+00

STA 917+50

STH 36, STA 929+61.35 =
CTH OO / USH 45, STA 109+09.13

MIL WAUKEE CO
WAUKESHA CO

CTH OO/ USH 45

PROJECT LIMITS
STA 10+70

STA 973+40

CTH H
STA 970+20

STA 979+95
C-40-01
(RYAN CREEK)

STA 1020+42
C-40-02
CONCRETE SURFACE REPAIR
JOINT REPAIR
(LEGEND CREEK
TRIBUTARY TO
ROOT RIVER)

W. FALCON LANE
STA 1023+80

DEERWOOD
LANE
STA 1041+75

STH 36

STH 100

END PROJECT
STA 1047+05

CITY OF MUSKEGO

CITY OF FRANKLIN

WAUKESHA CO
RACINE CO

MILWAUKEE CO
RACINE CO

TOWN OF NORWAY

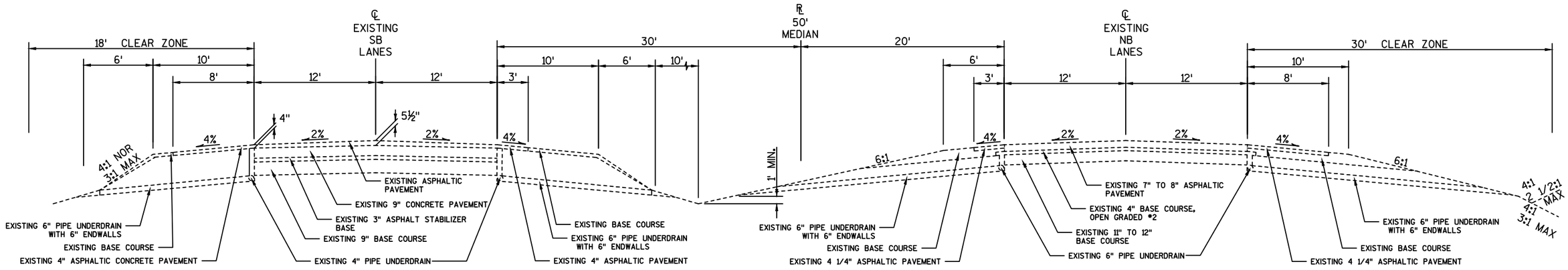
BEGIN PROJECT
STA 663+50

STH 36

CTH Y
STA 659+50

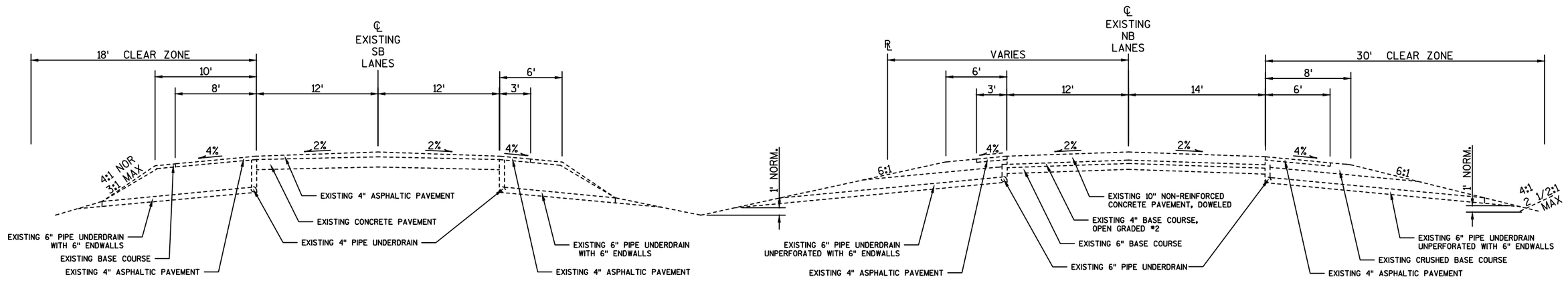
2

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PROJECT OVERVIEW	SHEET 4	E



EXISTING TYPICAL SECTION

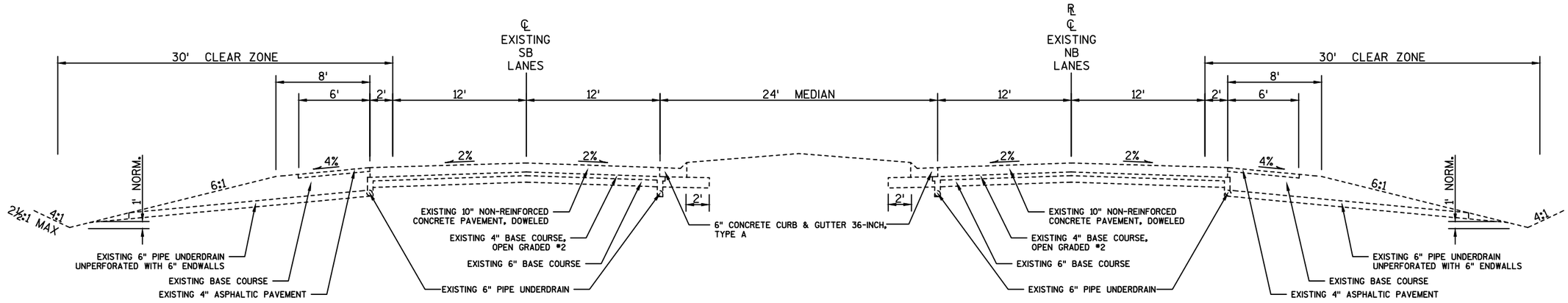
STA 663+50 TO STA 767+00



EXISTING TYPICAL SECTION

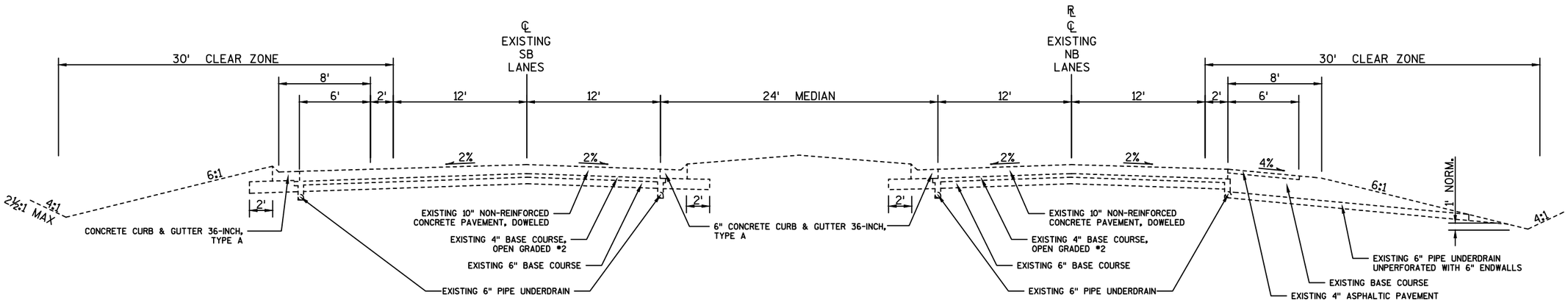
STA 767+00 TO STA 787+40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TYPICAL SECTION	SHEET 5	E



EXISTING TYPICAL SECTION

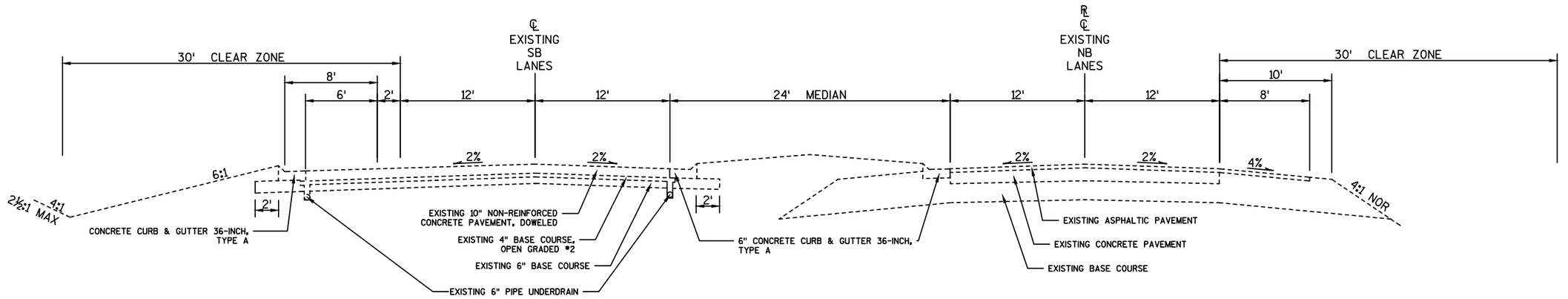
STA 787+40 TO STA 808+00
STA 931+00 TO STA 973+40



EXISTING TYPICAL SECTION

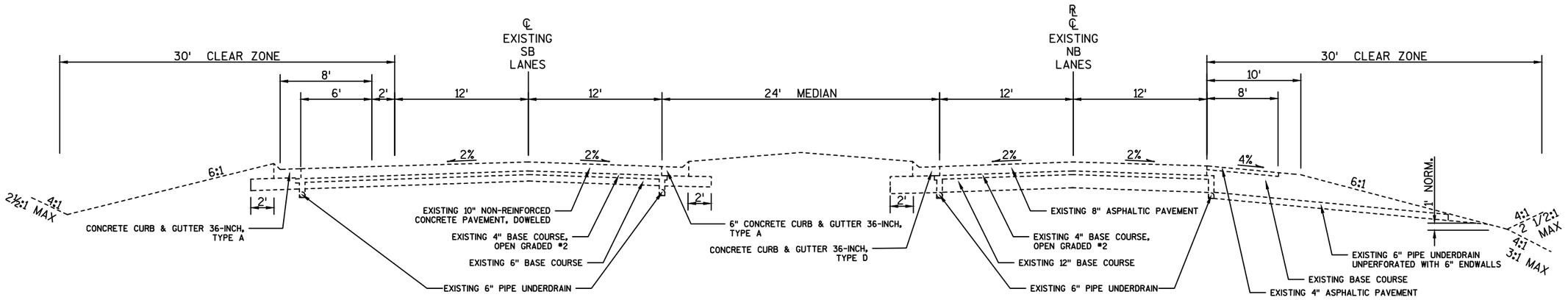
STA 808+00 TO STA 811+70
STA 917+50 TO STA 931+00

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TYPICAL SECTIONS	SHEET 6	E



EXISTING TYPICAL SECTION

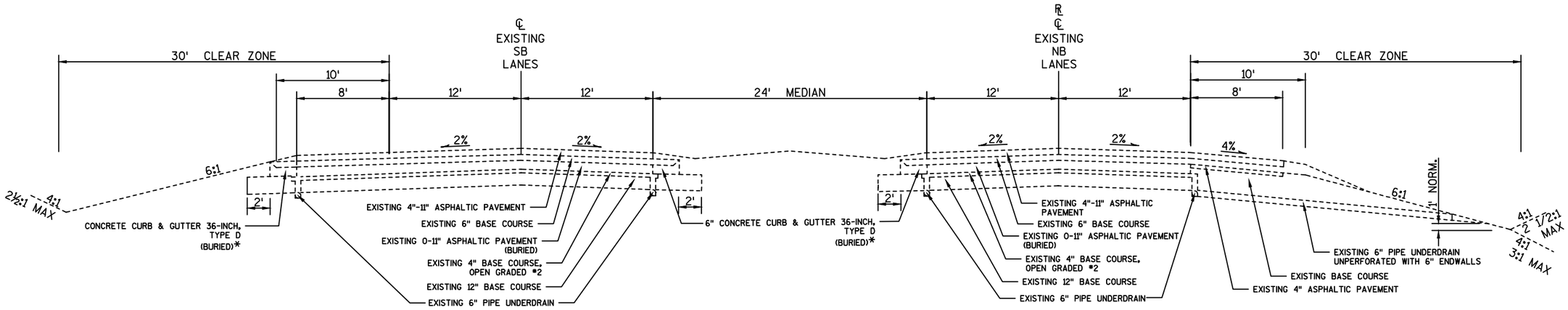
STA 811+70 TO STA 899+00



EXISTING TYPICAL SECTION

STA 899+00 TO STA 900+92

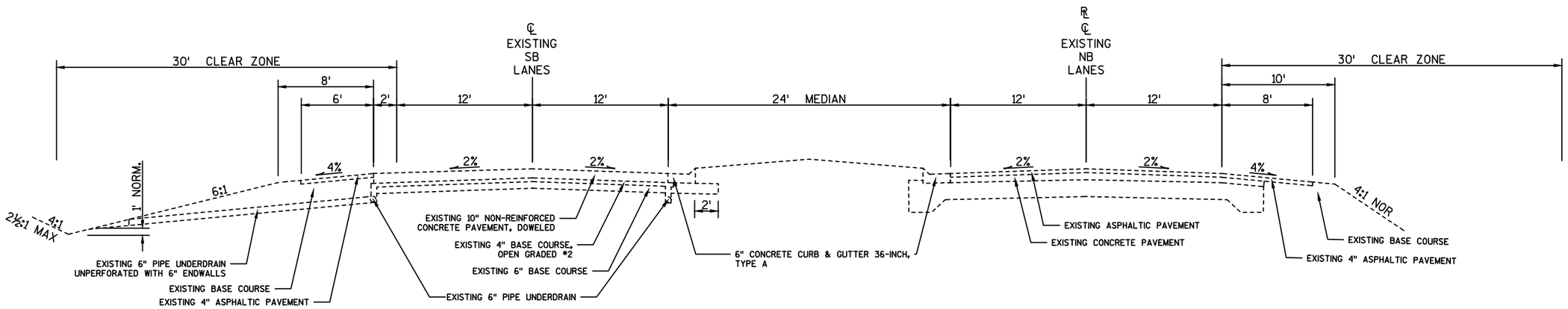
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TYPICAL SECTIONS	SHEET 7	E



EXISTING TYPICAL SECTION

STA 900+92 TO STA 917+50

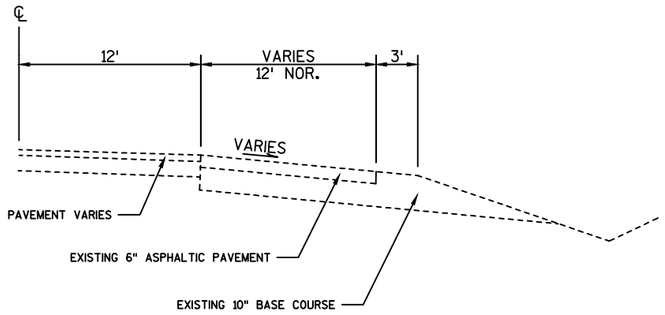
*CURB & GUTTER BURIED STA 904+00 TO STA 917+50



EXISTING TYPICAL SECTION

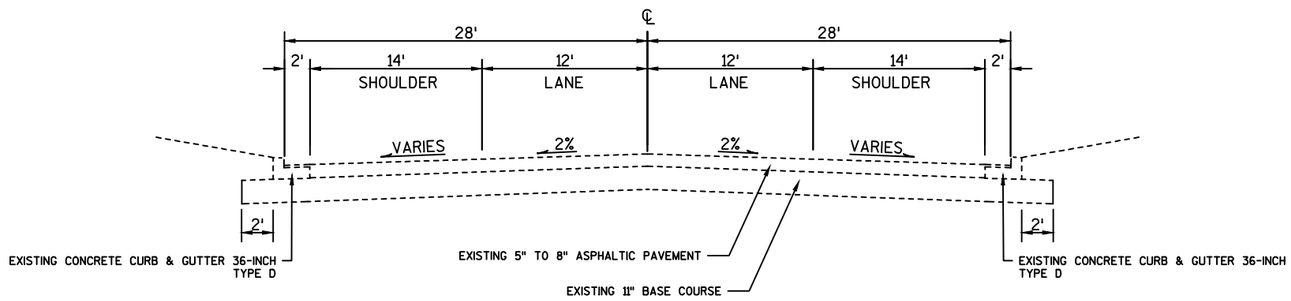
STA 973+40 TO STA 1047+05

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TYPICAL SECTIONS	SHEET 8	E



EXISTING TYPICAL SECTION

TURN LANES

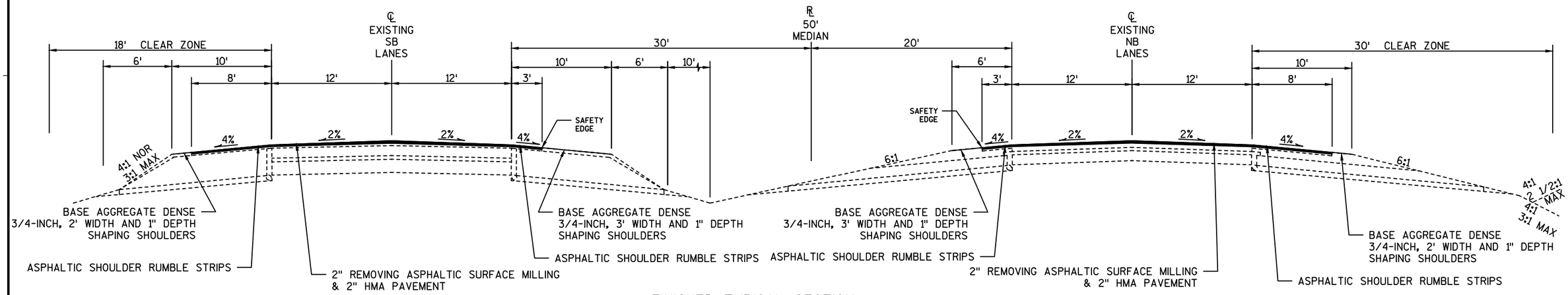


EXISTING TYPICAL SECTION

USH 45/ CTH 00

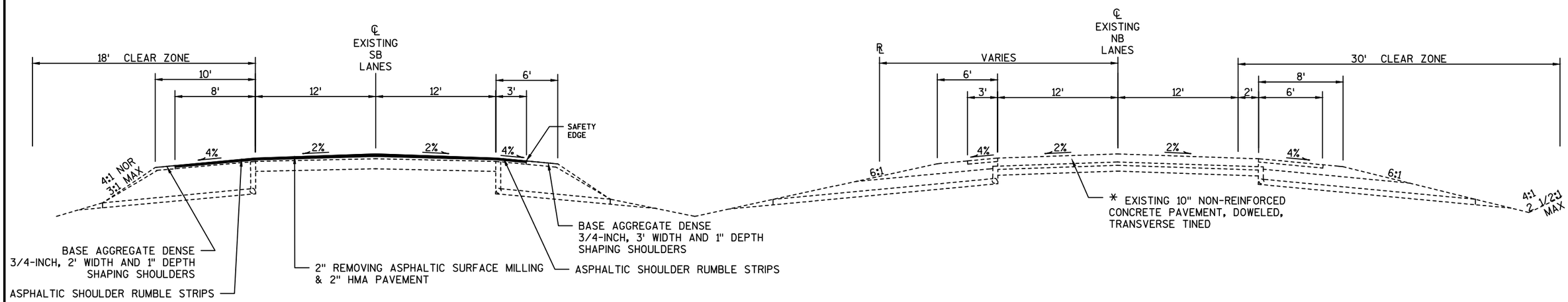
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TYPICAL SECTIONS	SHEET 9	E

2



FINISHED TYPICAL SECTION

STA 663+50 TO STA 767+00



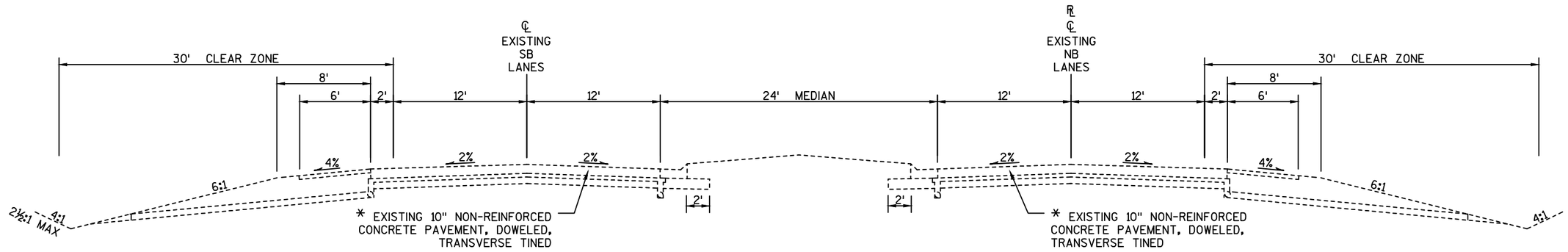
FINISHED TYPICAL SECTION

STA 767+00 TO STA 787+40

* SEE PLAN DETAILS FOR CONCRETE PAVEMENT REPAIR/REPLACEMENT LOCATIONS

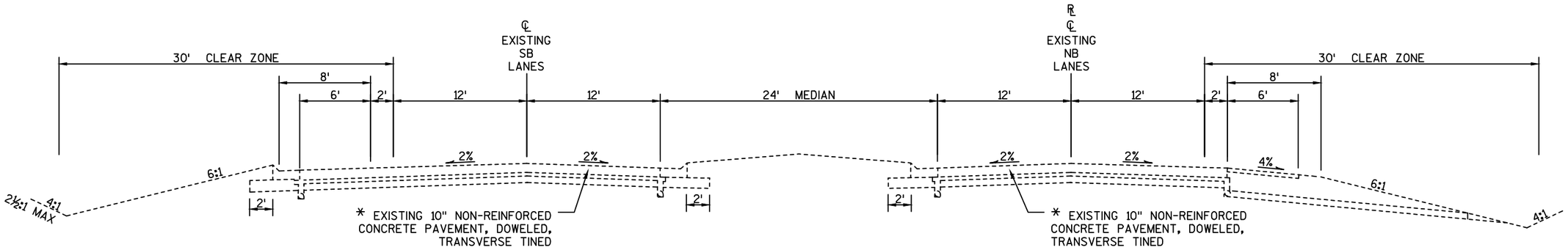
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TYPICAL SECTIONS	SHEET 10	E

2



FINISHED TYPICAL SECTION

STA 787+40 TO STA 808+00
STA 931+00 TO STA 973+40

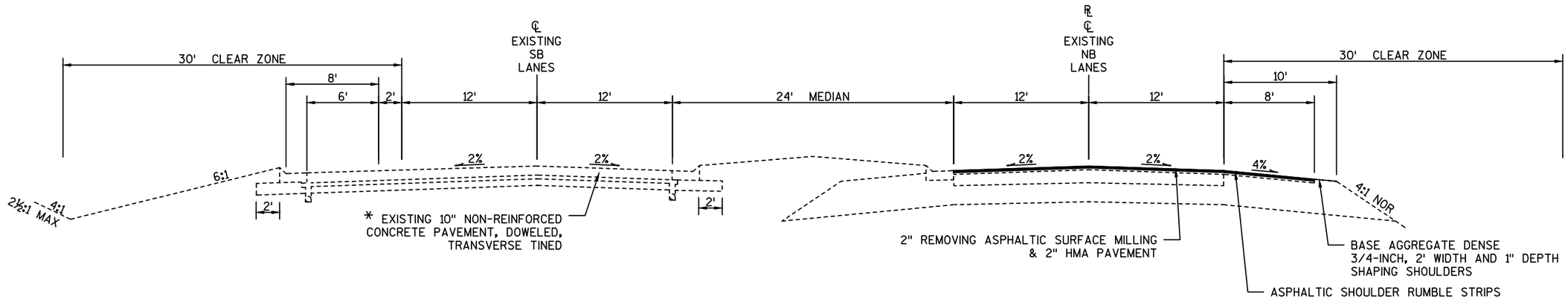


FINISHED TYPICAL SECTION

STA 808+00 TO STA 811+70
STA 917+50 TO STA 931+00

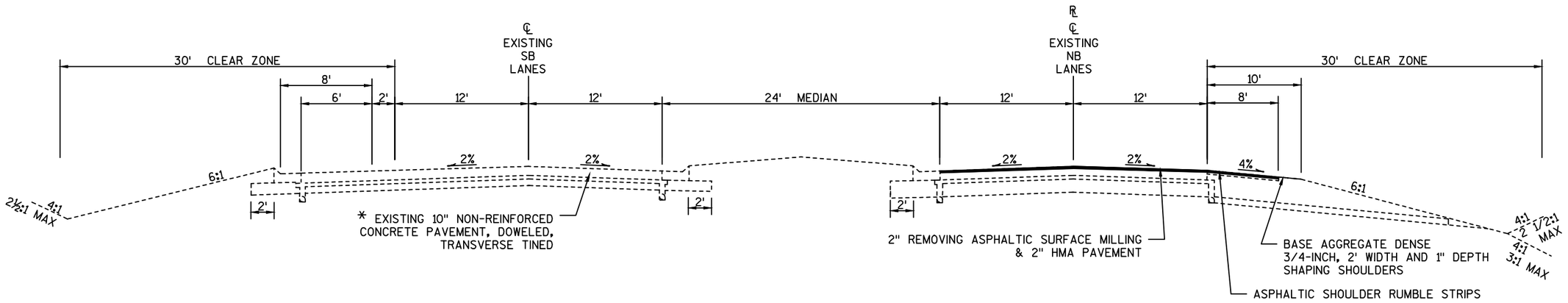
* SEE PLAN DETAILS FOR
CONCRETE PAVEMENT
REPAIR/REPLACEMENT LOCATIONS

2



FINISHED TYPICAL SECTION

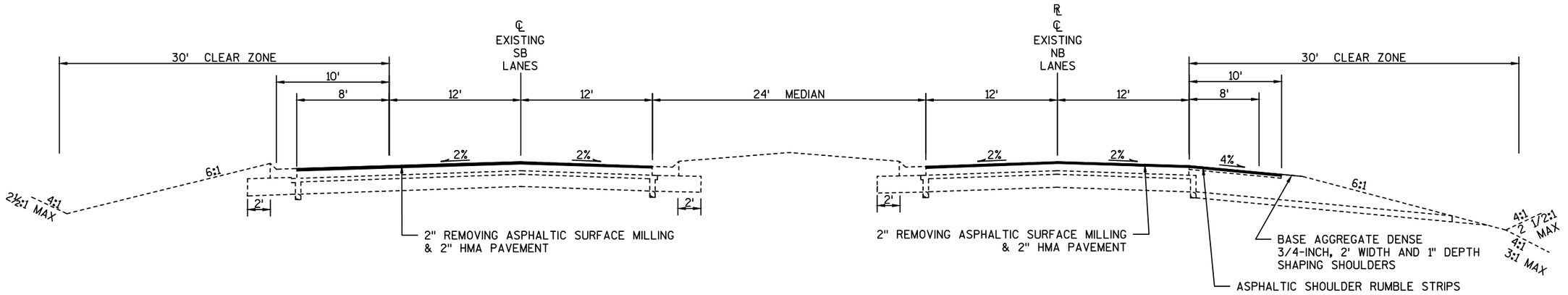
STA 811+70 TO STA 899+00



FINISHED TYPICAL SECTION

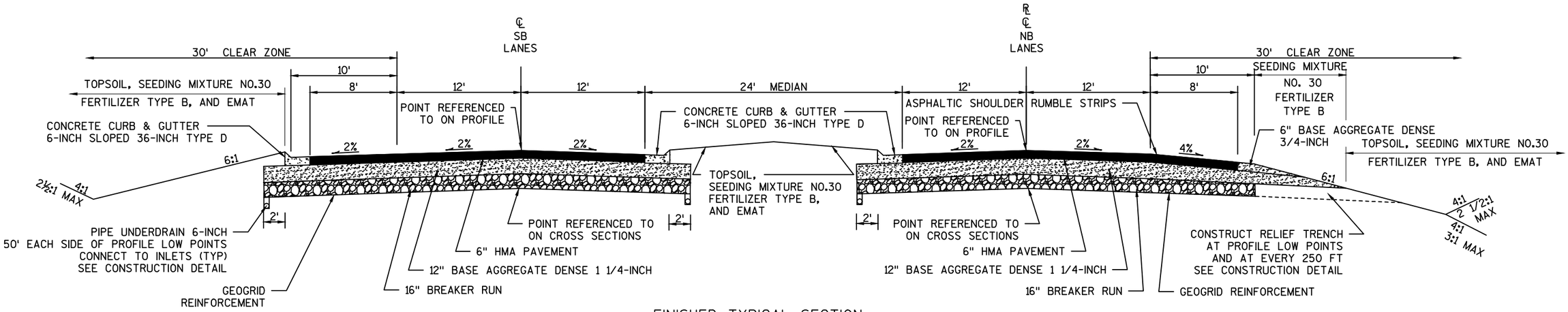
STA 899+00 TO STA 900+92

* SEE PLAN DETAILS FOR CONCRETE PAVEMENT REPAIR/REPLACEMENT LOCATIONS



FINISHED TYPICAL SECTION

STA 900+92 TO STA 904+00

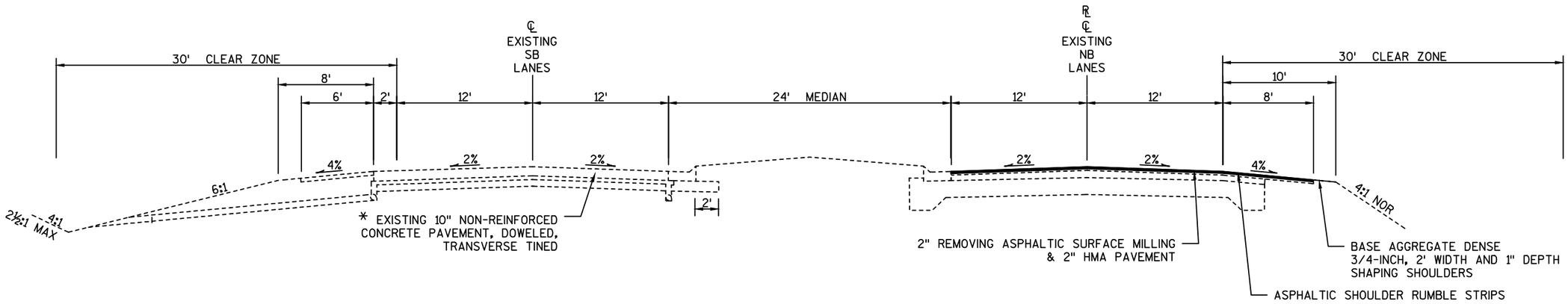


FINISHED TYPICAL SECTION

STA 904+00 TO STA 917+50

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TYPICAL SECTIONS	SHEET 13	E

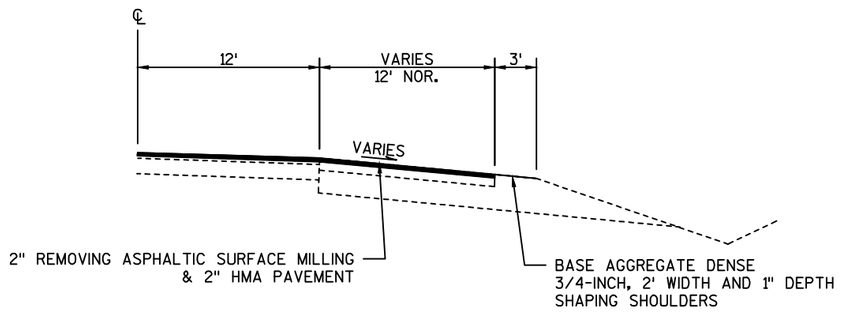
2



FINISHED TYPICAL SECTION

STA 973+40 TO STA 1047+05

* SEE PLAN DETAILS FOR
CONCRETE PAVEMENT
REPAIR/REPLACEMENT LOCATIONS

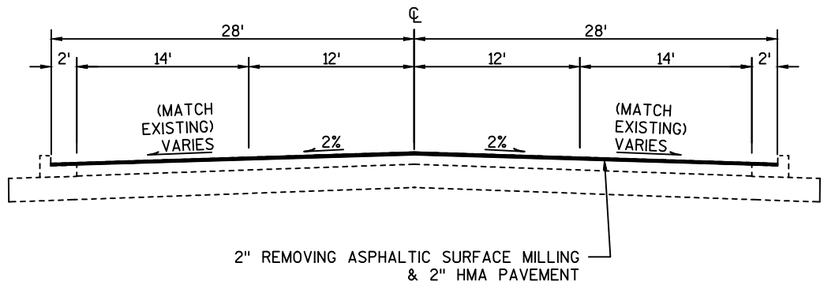


FINISHED TYPICAL SECTION

TURN LANES

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TYPICAL SECTIONS	SHEET 14	E

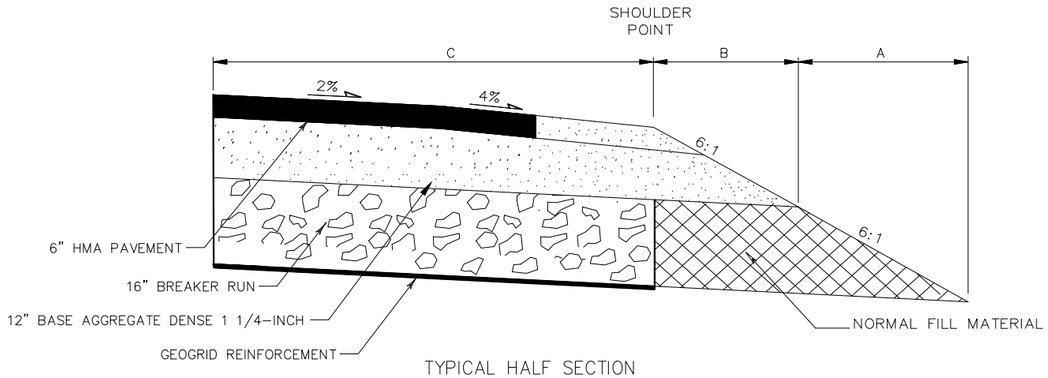
2



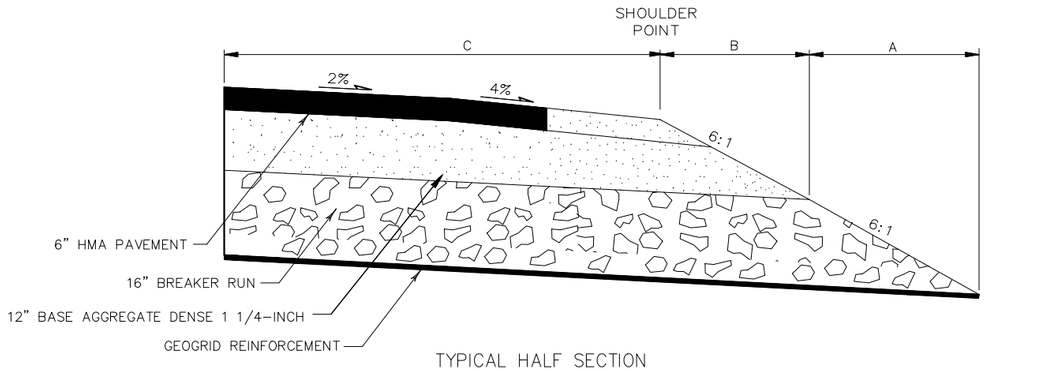
FINISHED TYPICAL SECTION

USH 45/ CTH 00

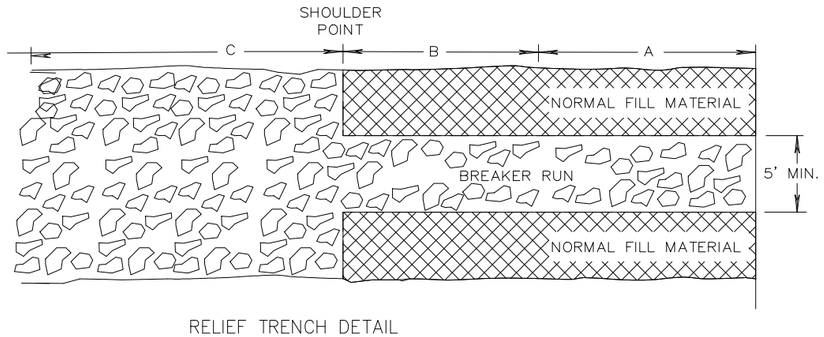
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TYPICAL SECTIONS	SHEET 15	E



TYPICAL HALF SECTION
(WITHOUT RELIEF TRENCH)



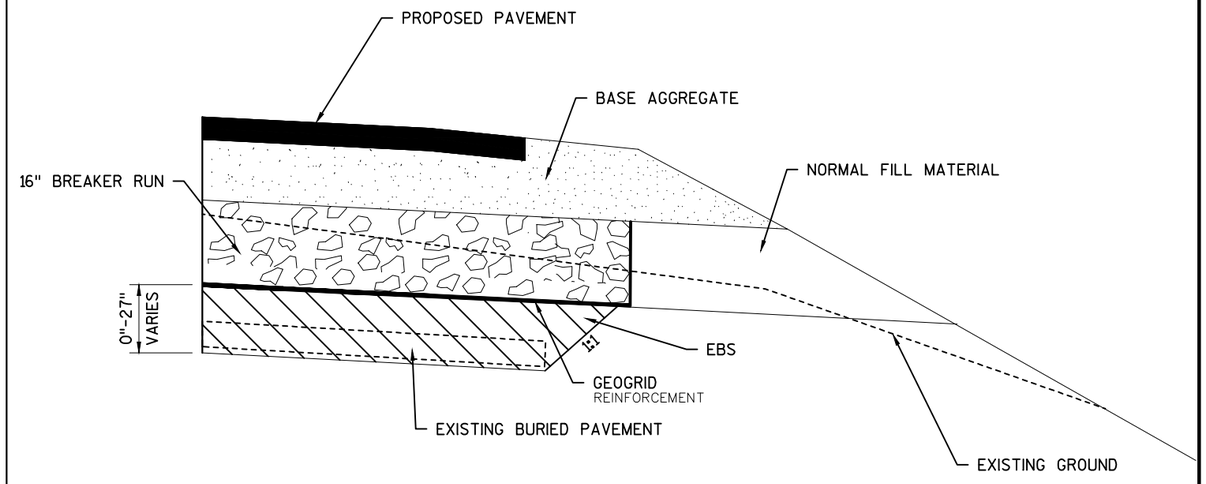
TYPICAL HALF SECTION
(RELIEF TRENCH)



RELIEF TRENCH DETAIL
PLAN VIEW

RELIEF TRENCH

CONSTRUCT RELIEF TRENCH AT
PROFILE LOW POINTS
AND AT EVERY 250 FT

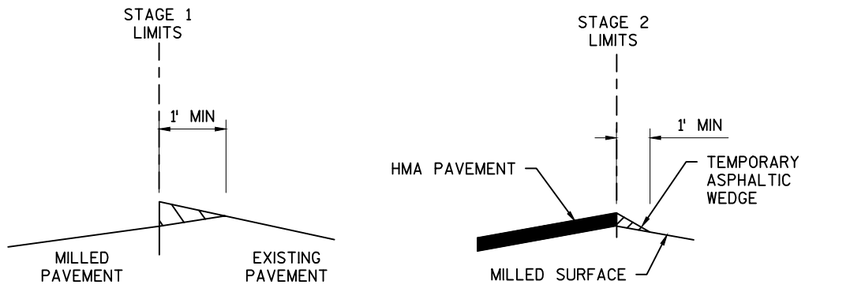


NOTE:

1) EBS NEEDED TO REMOVE ALL EXISTING PAVEMENT (BURIED AND EXPOSED)
2) EBS TO BE PAID FOR AS EXCAVATION COMMON
3) AS NOTED ON THE CROSS SECTIONS AND AS DIRECTED BY THE ENGINEER
4) FILL EBS AREA WITH SELECT BORROW

EXCAVATION BELOW SUBGRADE (EBS) – RECONSTRUCTION SECTION

STA 904+50 TO STA 908+00



STAGE 1

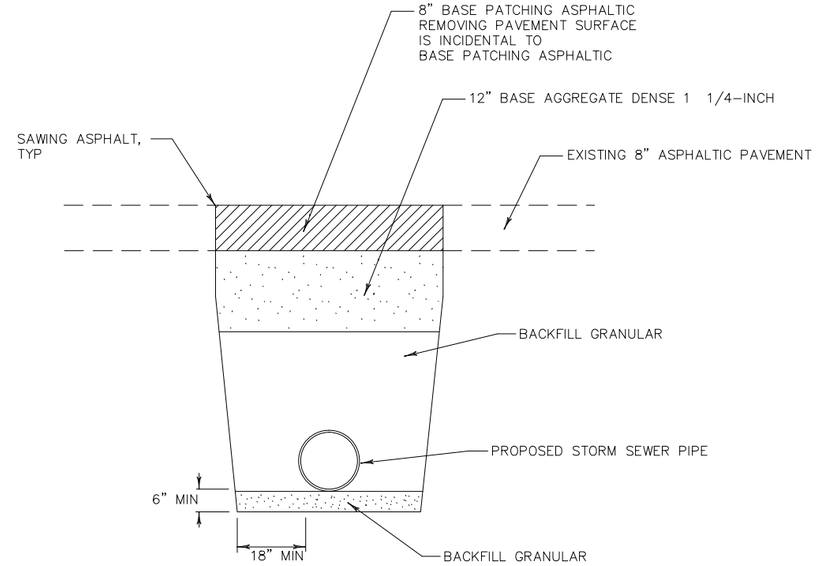
REMOVE WEDGE, PAID FOR AS REMOVING ASPHALTIC SURFACE MILLING

STAGE 2

PLACE TEMPORARY ASPHALT WEDGE (PAPER JOINT) PAID AS ASPHALTIC SURFACE TEMPORARY. REMOVAL IS INCIDENTAL TO ASPHALTIC SURFACE TEMPORARY

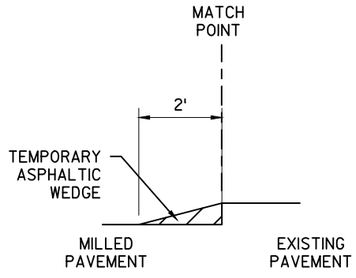
UNEVEN ASPHALTIC PAVEMENT JOINTS

USE AT INTERSECTIONS, TURN LANES, AND COMMERCIAL DRIVEWAYS



DETAIL FOR INSTALLATION OF STORM SEWER PIPE

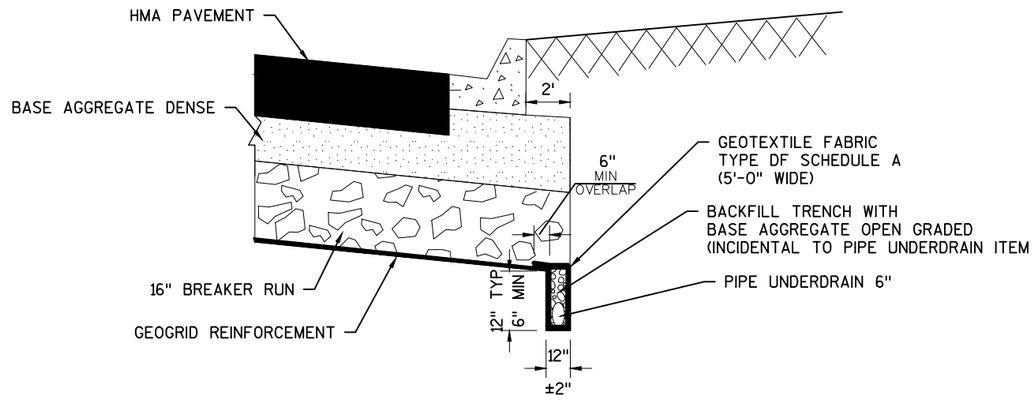
THROUGH EXISTING ROADWAY EMBANKMENT
STH 36 SOUTH OF CHAMPIONS DRIVE
STA 900+71



PLACE TEMPORARY ASPHALT WEDGE (PAPER JOINT) PAID AS ASPHALTIC SURFACE TEMPORARY. REMOVAL IS INCIDENTAL.

UNEVEN ASPHALTIC PAVEMENT JOINTS - MATCH POINTS

USE AT MATCH POINTS AT SIDE ROADS

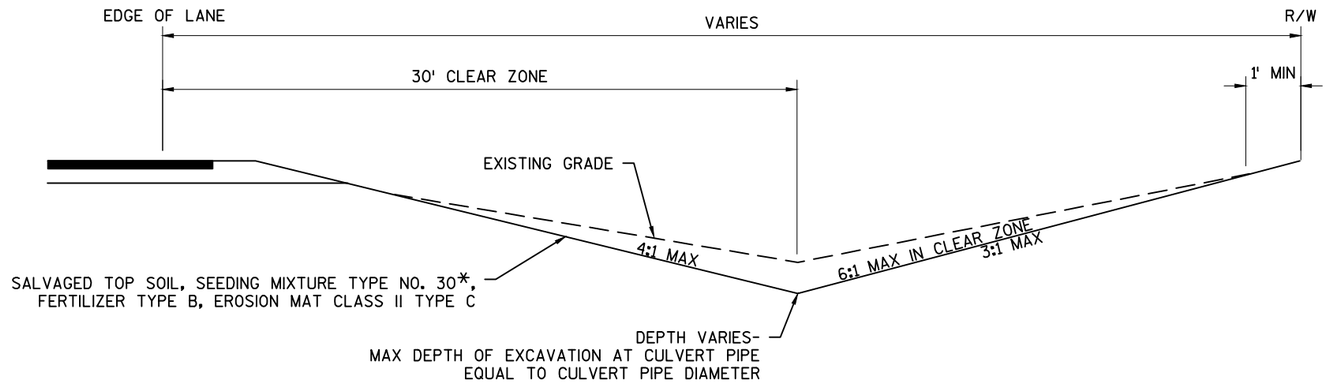


UNDERDRAIN TRENCH DETAIL

STA 904+00 TO STA 917+50

50' EACH SIDE OF PROFILE LOW POINTS
CONNECT PIPE UNDERDRAIN TO INLETS
SEE SDD EDGEDRAIN OUTLET AND OUTFALL MARKERS

2



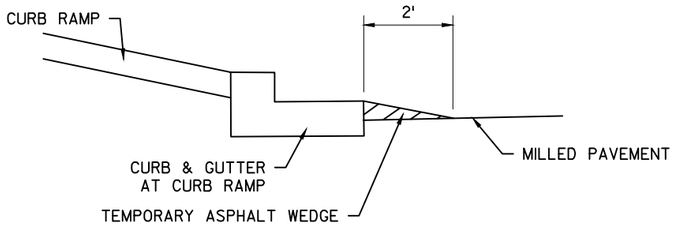
DITCHING AND SHAPING

NOTES:

AVERAGE WIDTH IS 15'

MINIMUM 0.5% SLOPE REQUIRED

* USE SEED MIXTURE NO. 60 NEAR WETLANDS
AND DO NOT USE FERTILIZER NEAR WETLANDS

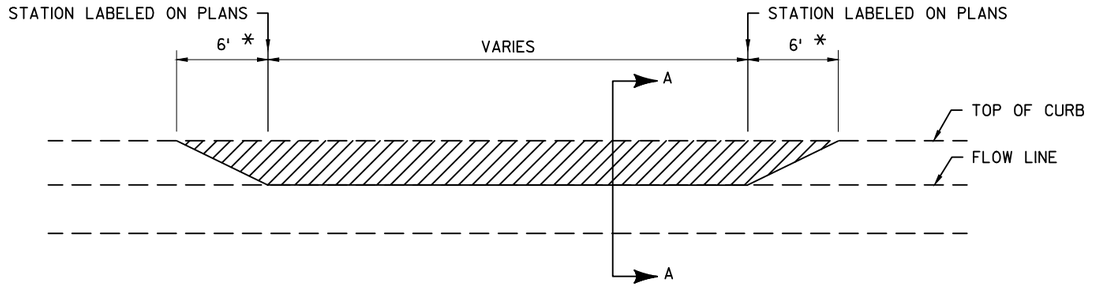


PLACE TEMPORARY ASPHALT WEDGE (PAPER JOINT) PAID AS ASPHALTIC SURFACE TEMPORARY. REMOVAL IS INCIDENTAL TO ASPHALTIC SURFACE TEMPORARY

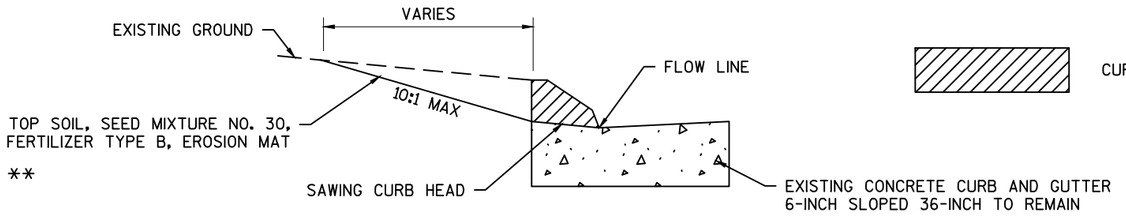
UNEVEN ASPHALTIC PAVEMENT JOINTS

USE AT CURB RAMPS

MUSKEGO DAM ROAD



* 2' FOR CURB RAMPS ALONG SEVEN WATERS TRAIL



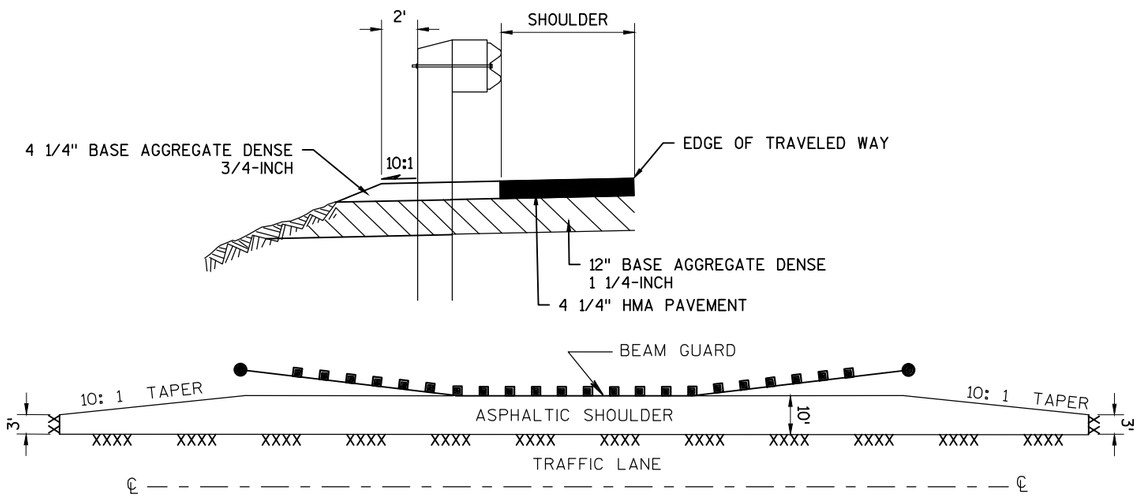
CURB HEAD REMOVAL

SECTION A–A

SAWING CURB HEAD

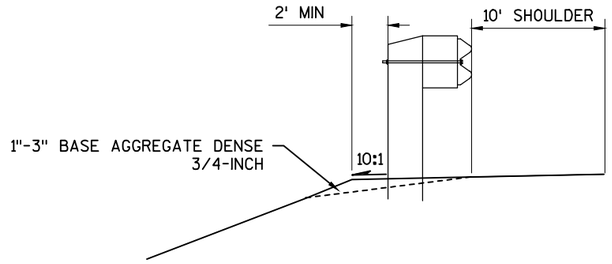
THODE DRIVE, STA 873+13 TO 873+84 SB OUTSIDE
STA 875+83 TO 879+44 SB OUTSIDE
CHAMPIONS DRIVE
USH 45

** NOTE:
5-INCH CONCRETE SIDEWALK AND
4" BASE AGGREGATE 1 1/4-INCH
AT THODE DRIVE, CHAMPIONS DRIVE
AND USH 45

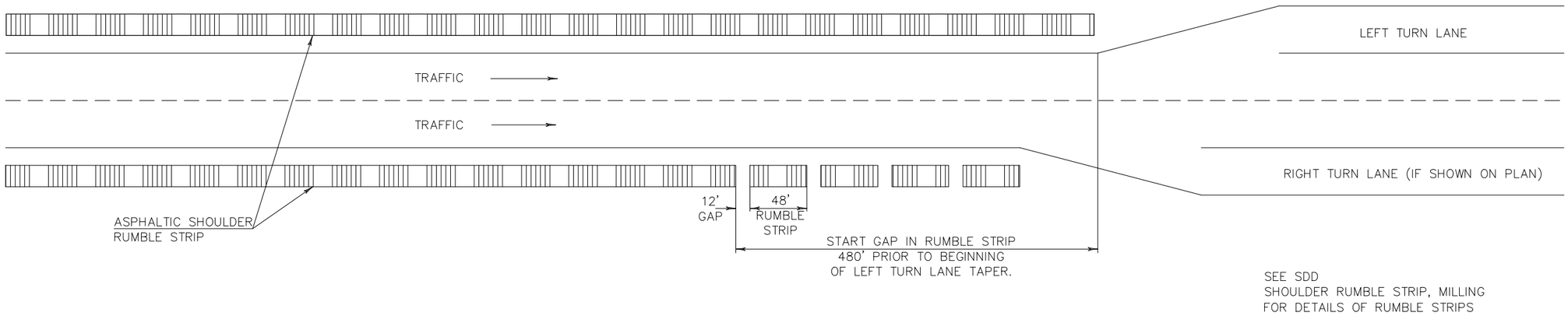


PAVED SHOULDER WIDENING AT MEDIAN

AT B-67-241 AND B-67-100 INSIDE SHOULDER

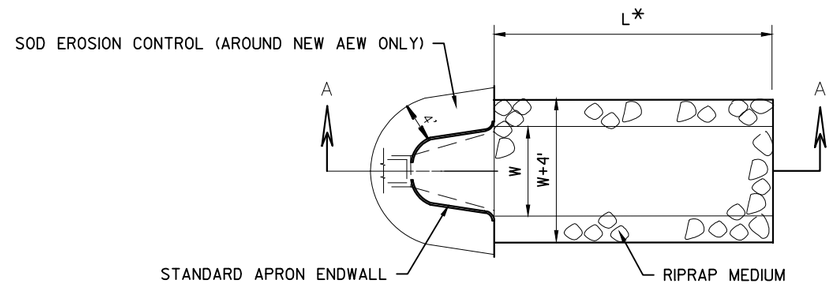


BEAM GUARD AT OUTSIDE SHOULDER



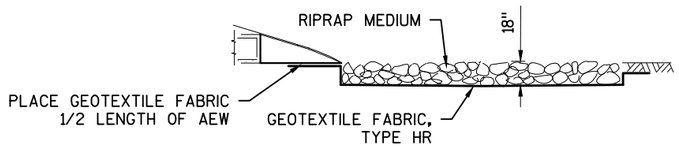
RUMBLE STRIP PRIOR TO INTERSECTION

2



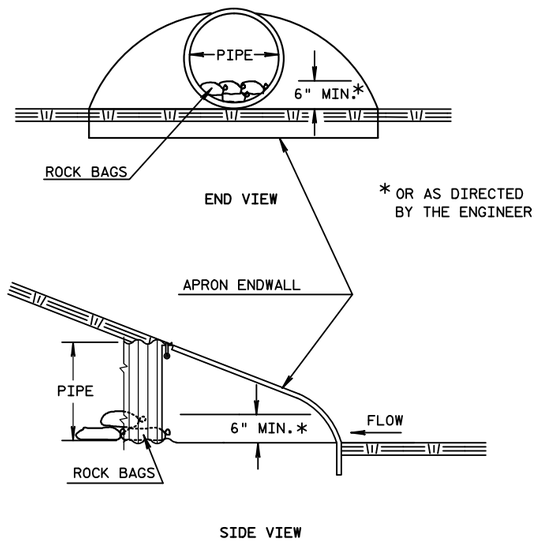
PLAN VIEW

*L = 3 x DIAMETER (NOR.) OR 10' MIN. OR AS DIRECTED BY THE ENGINEER.



SECTION A–A

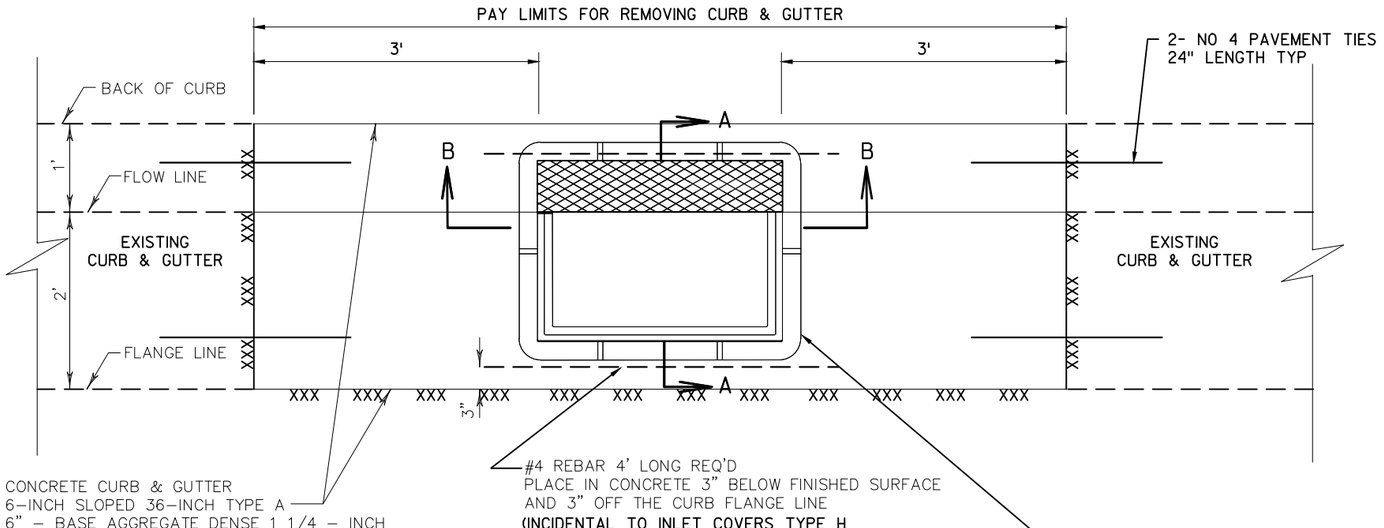
RIPRAP AT APRON ENDWALLS



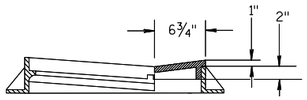
PIPE SIZE (IN)	# BAGS
12	1
15-24	2
19X30	3

CULVERT PIPE ENDS

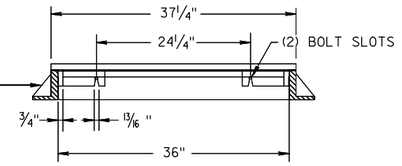
ROCK BAGS



PLAN VIEW



SECTION A-A

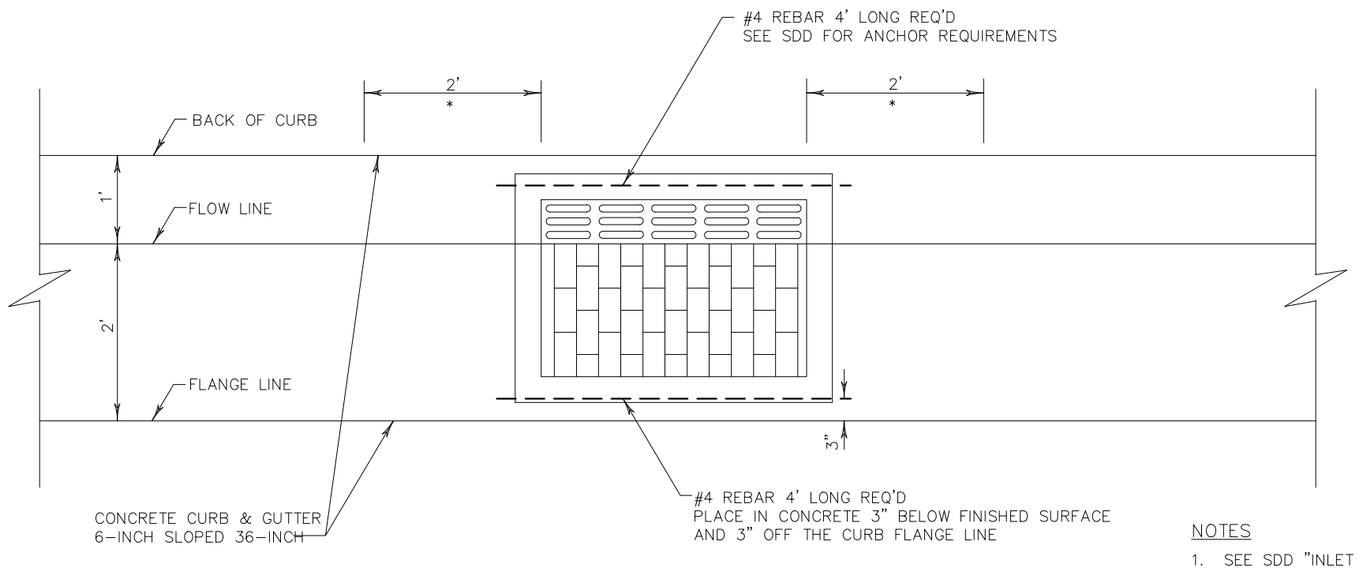


SECTION B-B

INLET COVER TYPE H WITH CURB PLATE

(WITH MOUNTABLE CURB PLATE) APPROXIMATE WT. (375 LBS.)

INLETS E75, E81A, E82B



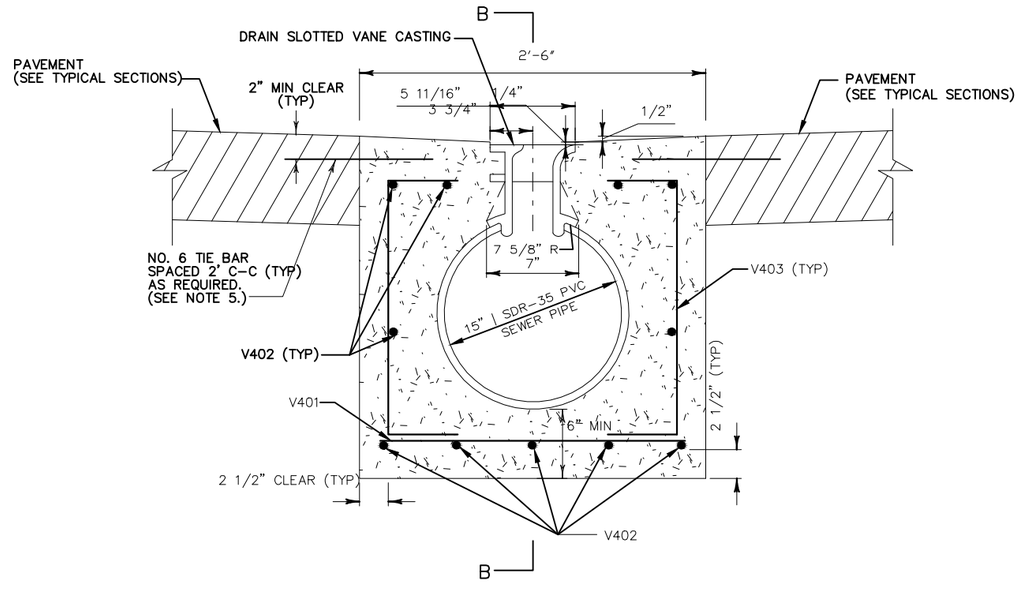
PLAN VIEW

* TRANSITION STANDARD CURB HEAD TO MATCH THE TYPE HM INLET COVER.

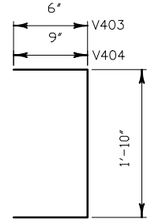
NOTES

1. SEE SDD "INLET COVERS TYPE F, HM, HM-S, S, V, HM-GJ, & HM-GJ-S" FOR ADDITIONAL INFORMATION.
2. THE TWO 2-FOOT LONG CURB TRANSITION SEGMENTS ARE PAID AS CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH.
3. THE TWO 4-FOOT LENGTHS OF #4 REBAR ARE INCIDENTAL TO THE BID ITEM "INLET COVERS TYPE HM" AND "INLET COVERS TYPE HM-S".

INLET COVERS, TYPE HM & HM-S



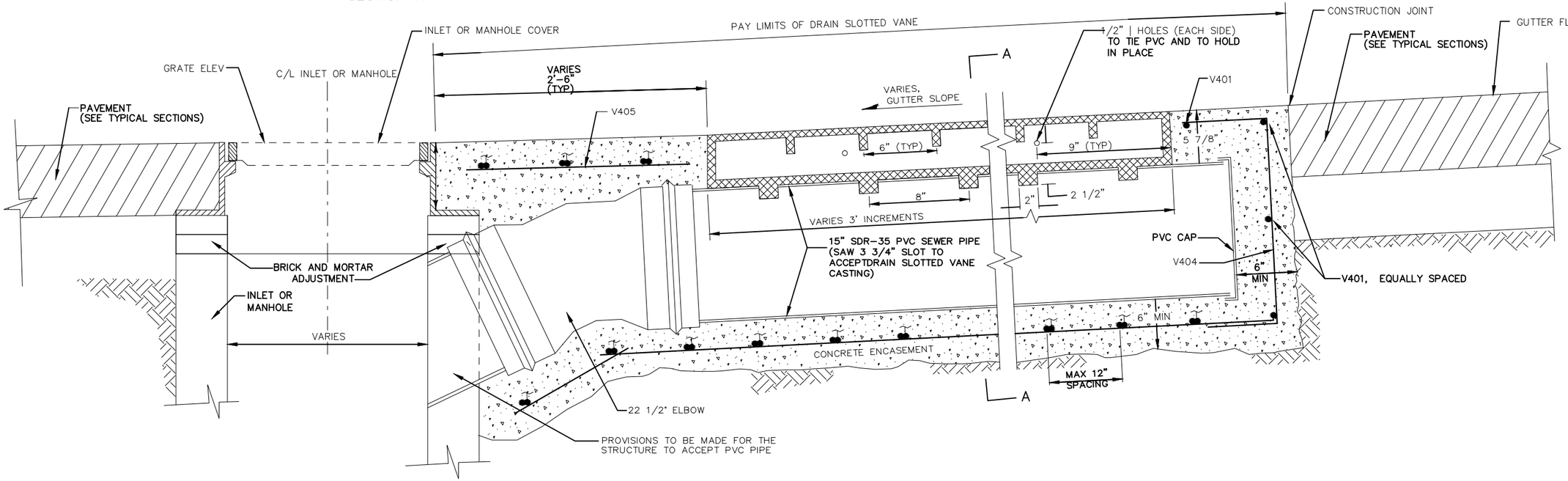
SECTION A–A



V403, V404

NOTES

1. THE FIRST DIGIT OF BAR MARK SIGNIFIES THE BAR SIZE.
2. ALL DIMENSIONS ARE OUT TO OUT OF BAR.
3. APPROXIMATE WEIGHT OF DRAIN SLOTTED VANE CASTING = 87 POUNDS.
4. THE CASTING AND PVC PIPE SHALL BE SECURELY STAKED AND ANCHORED INTO PLACE DURING THE POURING OF THE CONCRETE ENCASEMENT.
5. TIE BARS REQUIRED ADJACENT TO CONCRETE PAVEMENT.



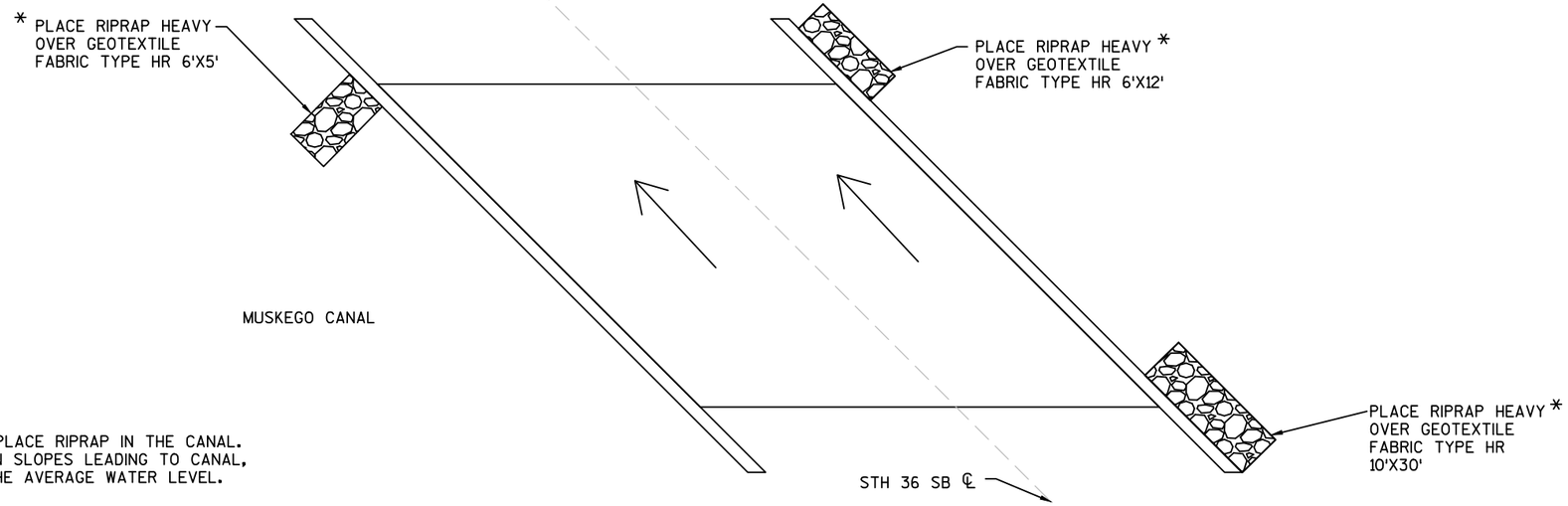
SECTION B–B

DRAIN SLOTTED VANE LONGITUDINAL TEMPORARY

TEMPORARY CROSS OVER
STA 896+50 TO 898+00

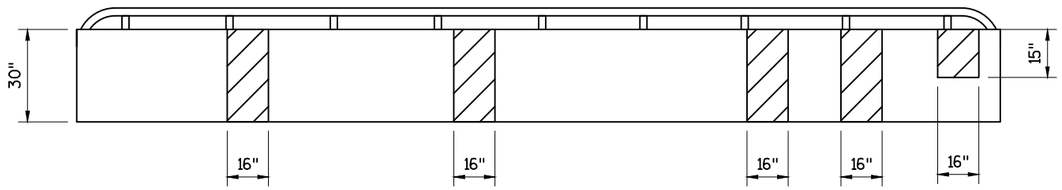
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CONSTRUCTION DETAILS	SHEET 22	E

2

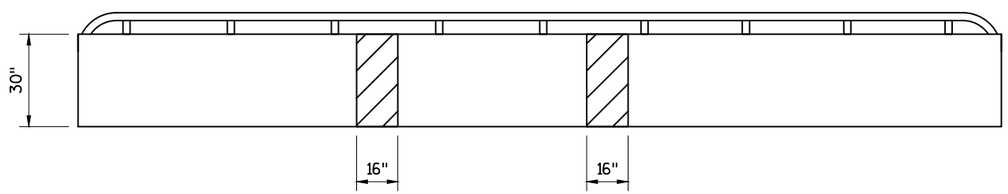


*NOTE:
DO NOT PLACE RIPRAP IN THE CANAL.
PLACE ON SLOPES LEADING TO CANAL,
ABOVE THE AVERAGE WATER LEVEL.

PLANVIEW - B-67-100
STH 36 SB OVER MUSKEGO CANAL

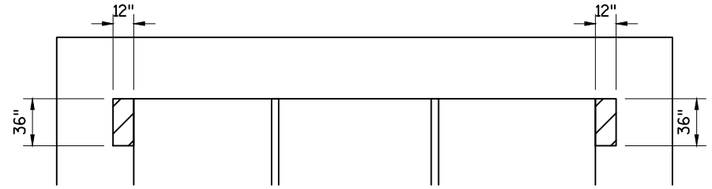


ELEVATION VIEW - NORTH RAIL
ROADSIDE FACE

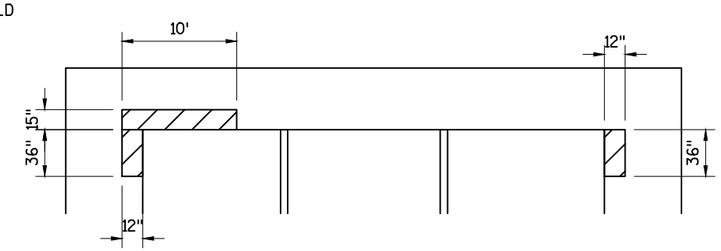


ELEVATION VIEW - SOUTH RAIL
ROADSIDE FACE

CONCRETE SURFACE REPAIR AREA
- AREAS ARE APPROXIMATE. ENGINEER SHALL FIELD VERIFY THE AREA

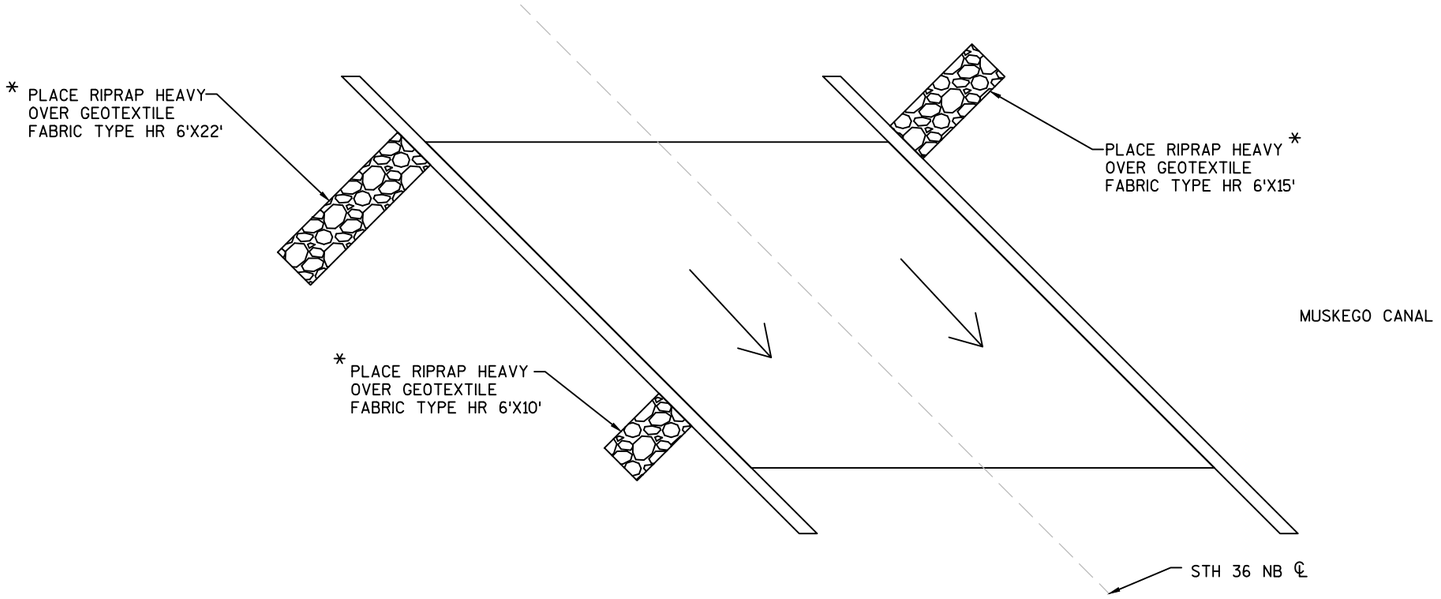


NORTH BRIDGE ELEVATION



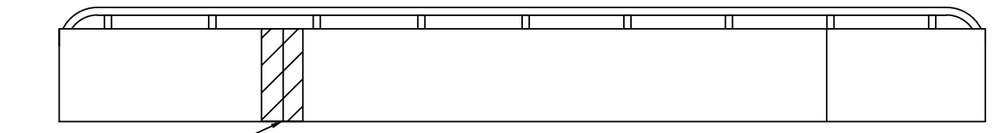
SOUTH BRIDGE ELEVATION

B-67-100 BRIDGE WORK
STA 744+00

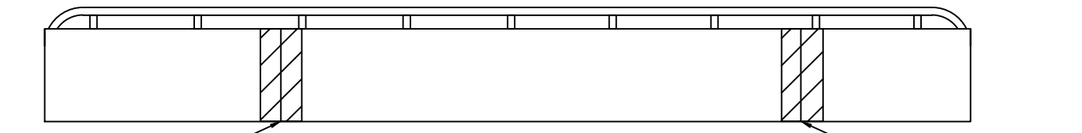


PLANVIEW - B-67-241
STH 36 NB OVER MUSKEGO CANAL

* NOTE:
DO NOT PLACE RIPRAP IN THE CANAL. PLACE ON SLOPES LEADING TO CANAL, ABOVE THE AVERAGE WATER LEVEL.



ELEVATION VIEW - SOUTH RAIL
ROADSIDE FACE

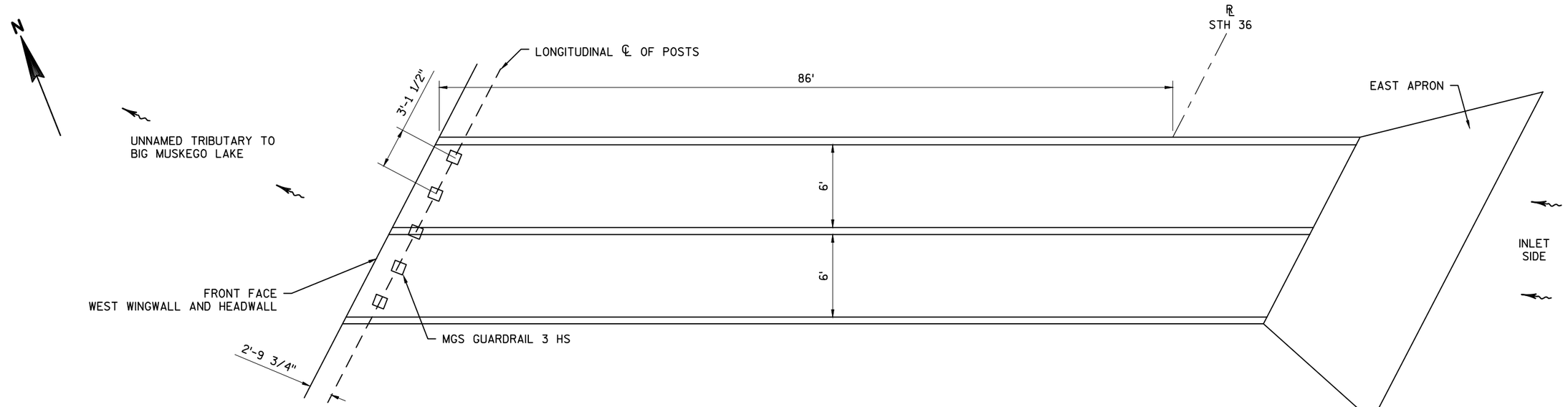


ELEVATION VIEW - NORTH RAIL
ROADSIDE FACE

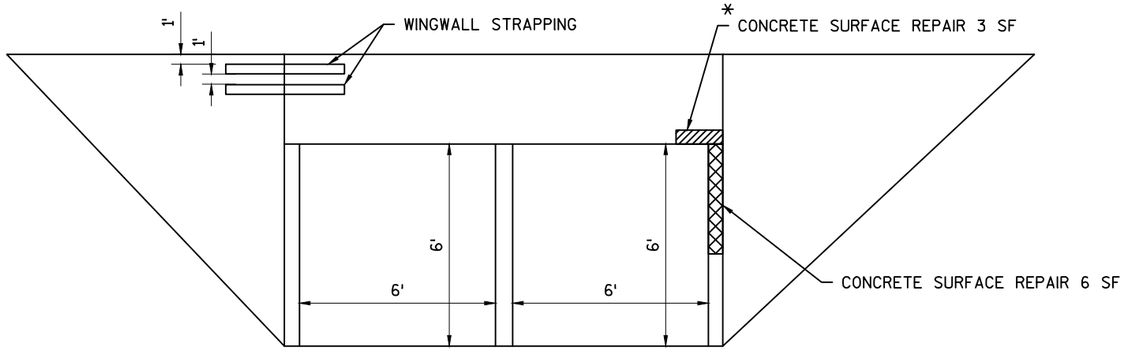
CONCRETE SURFACE REPAIR AREA
- AREAS ARE APPROXIMATE. ENGINEER SHALL FIELD VERIFY THE AREA

B-67-241 BRIDGE WORK
STA 744+00

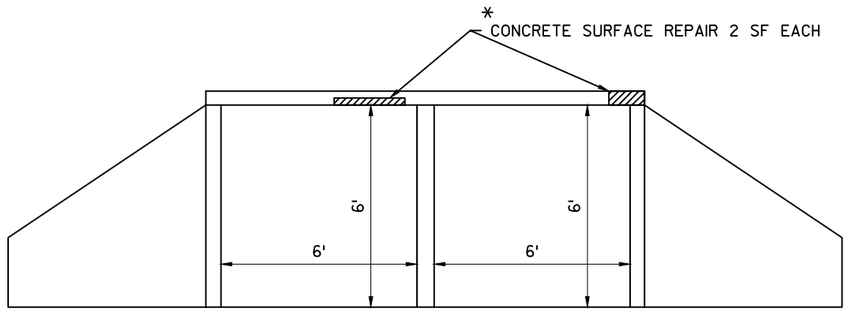
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CONSTRUCTION DETAIL - B-67-241	SHEET 24	E



PLANVIEW - C-67-15



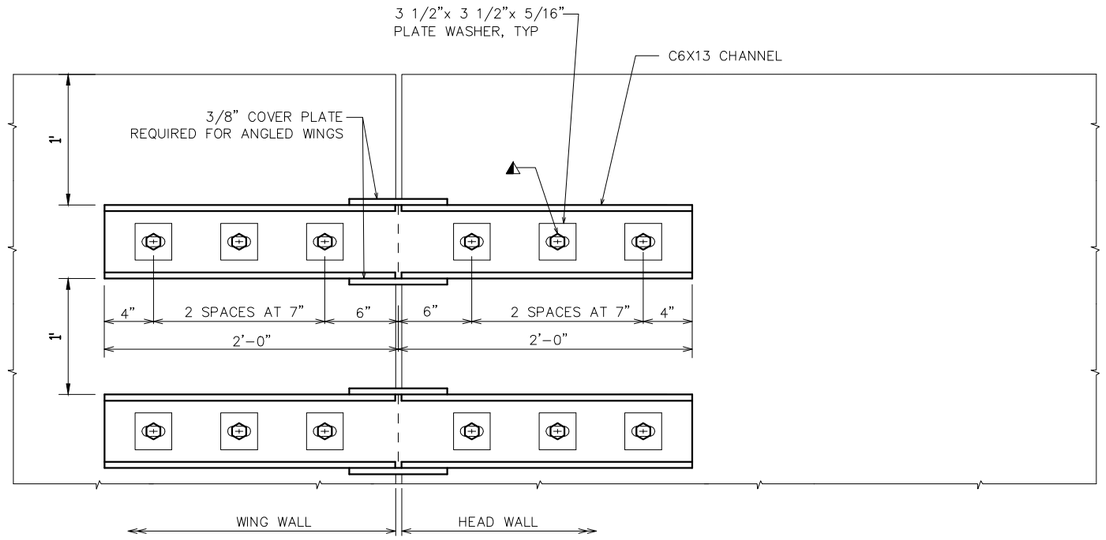
WEST ELEVATION



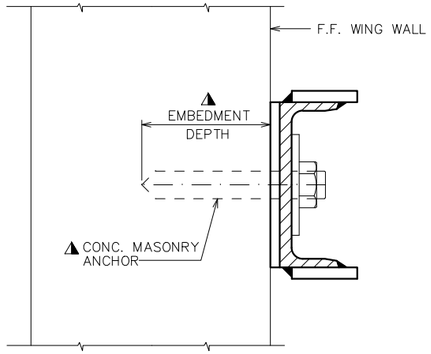
EAST ELEVATION

C-67-15 CULVERT WORK
STA 874+85
TWIN 6' X 6' BOX CULVERT

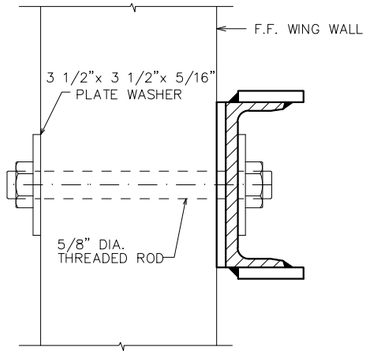
* AREAS ARE APPROXIMATE.
ENGINEER SHALL FIELD
VERIFY THE AREA



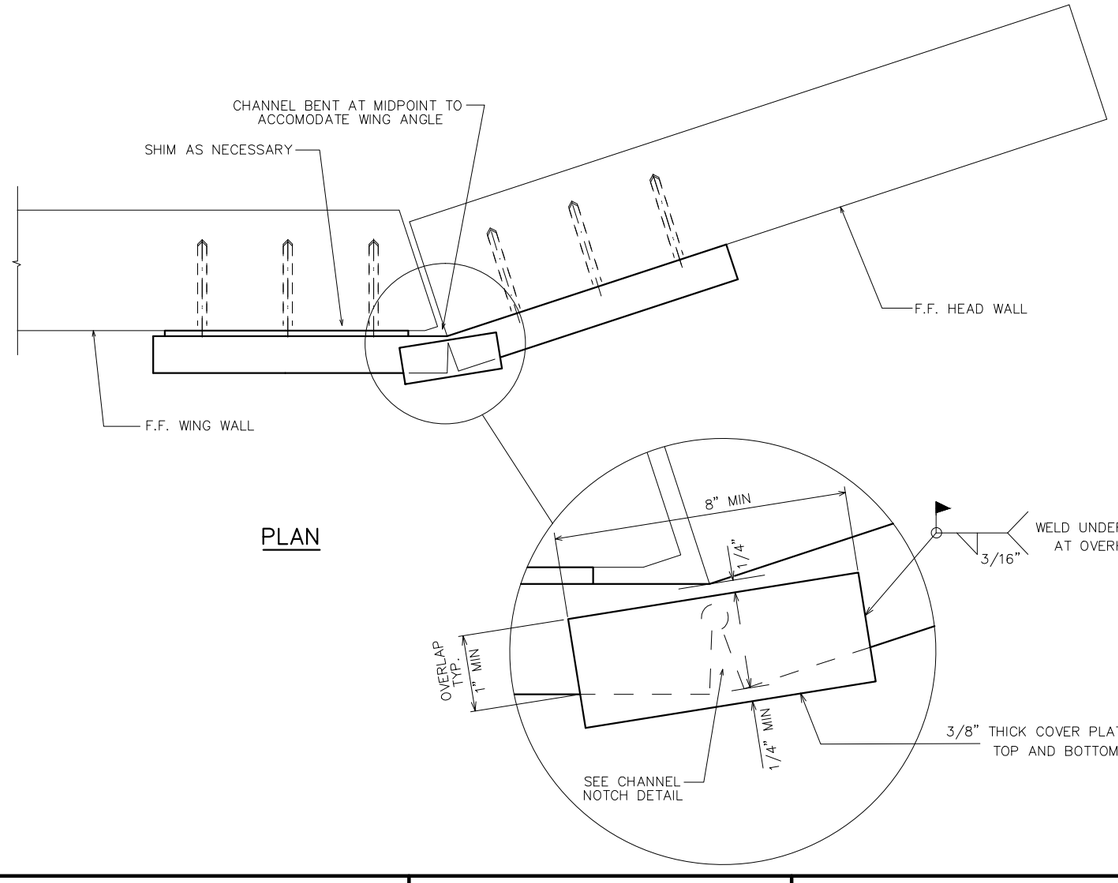
WING ELEVATION



DETAIL "A"
SECTION THRU CHANNEL



DETAIL "B"
SECTION THRU CHANNEL



PLAN

⚠ FOR CULVERT WINGS:

WITH WING WALL THICKNESS ≥ 8" USE:
5/8" DIA. CONCRETE MASONRY ANCHOR, TYPE S
5" EMBEDMENT DEPTH
SEE DETAIL "A"

WITH WING WALL THICKNESS < 8" USE:
5/8" DIA. THRU WALL THREADED ROD
SEE DETAIL "B"

USE 11/16" X 1 9/16" LONG SLOTTED HOLES

GENERAL NOTES

WING STRAPPING DETAIL FOR THE PURPOSE OF MITIGATING INWARD WING TIPPING, AS AN ALTERNATIVE TO THE PREFERRED METHOD OF WING REPLACEMENT.

BID ITEM SHALL BE "STRAPPING C-67-15" WHICH INCLUDES ALL ITEMS SHOWN.

WISDOT REGIONAL BRIDGE MAINTENANCE ENGINEER TO APPROVE USE OF DETAIL PRIOR TO INSTALLATION.

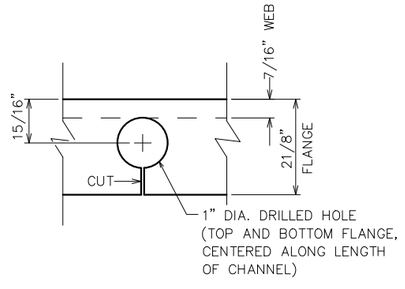
ALL PROVIDED STEEL MATERIAL SHALL CONFORM TO ASTM A36.

ALL STRUCTURAL STEEL SHOWN SHALL BE GALVANIZED. THREADED RODS, MASONRY ANCHORS, NUTS AND WASHERS SHALL BE GALVANIZEDIN ACCORDANCE WITH ASTM A153 CLASS C.

CUTTING AND DRILLING OF CHANNEL SHALL BE DONE IN FABRICATION SHOP, PRIOR TO GALVANIZING.

IF WELDING COVER PLATE IN FIELD, PRIOR TO WELDING, REMOVE GALVANIZING FROM AREA TO BE WELDED.TOUCH UP WITH PAINT ALL AREAS LACKING GALVANIZING WHEN COMPLETE.

CHAUK AROUND PERIMETER OF CHANNEL AND FILL PORTION OF HOLE AROUND ANCHOR BOLT AND SHIM WITH NON-STAINING GREY NON-BITUMINOUS JOINT SEALER.

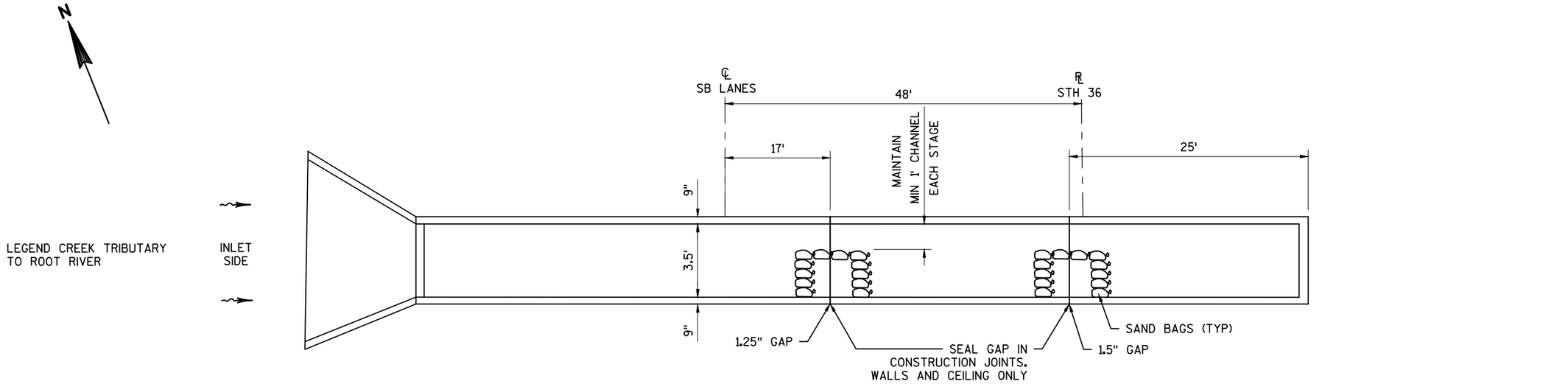


CHANNEL NOTCH DETAIL
FOR USE WITH ANGLED WINGS ONLY

WING WALL STRAPPING C-67-15

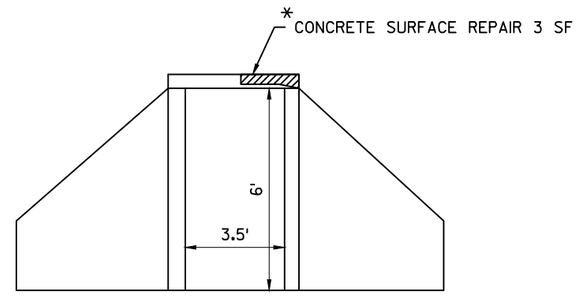
NOTE:
WING WALL AND HEAD WALL ARE 1' THICK
WING WALL IS NOT ANGLED

2



PLANVIEW - C-40-02

(STAGE 1 SAND BAGGING SHOWN - STAGE 2 IS MIRROR)



WEST ELEVATION

LOOKING EAST

NOTE:

-SEAL GAPS (SPV.0105.12) AND DEWATER (SPV.0105.11) IN TWO STAGES

-SAND BAGGING AND DEWATERING REQUIRED (SPV.0105.11)

-MAINTAIN MIN. 1' WIDE CHANNEL THRU CULVERT.

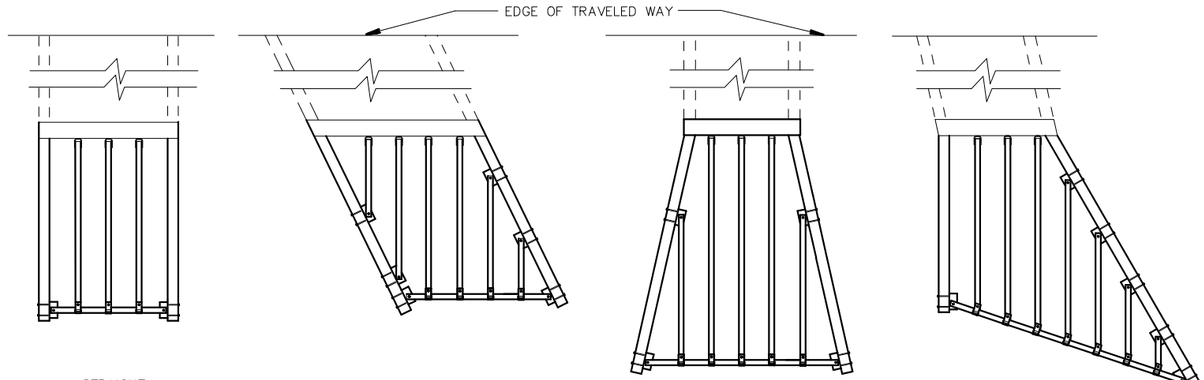
-DEPTH OF WATER WAS 2', WITH 15" OF SEDIMENT BELOW (ON JUNE 11, 2015)

* DIMENSIONS ARE APPROXIMATE. ENGINEER SHALL FIELD VERIFY THE AREA

C-40-02 CULVERT WORK
STA 1020+42
3.5' X 6' BOX CULVERT

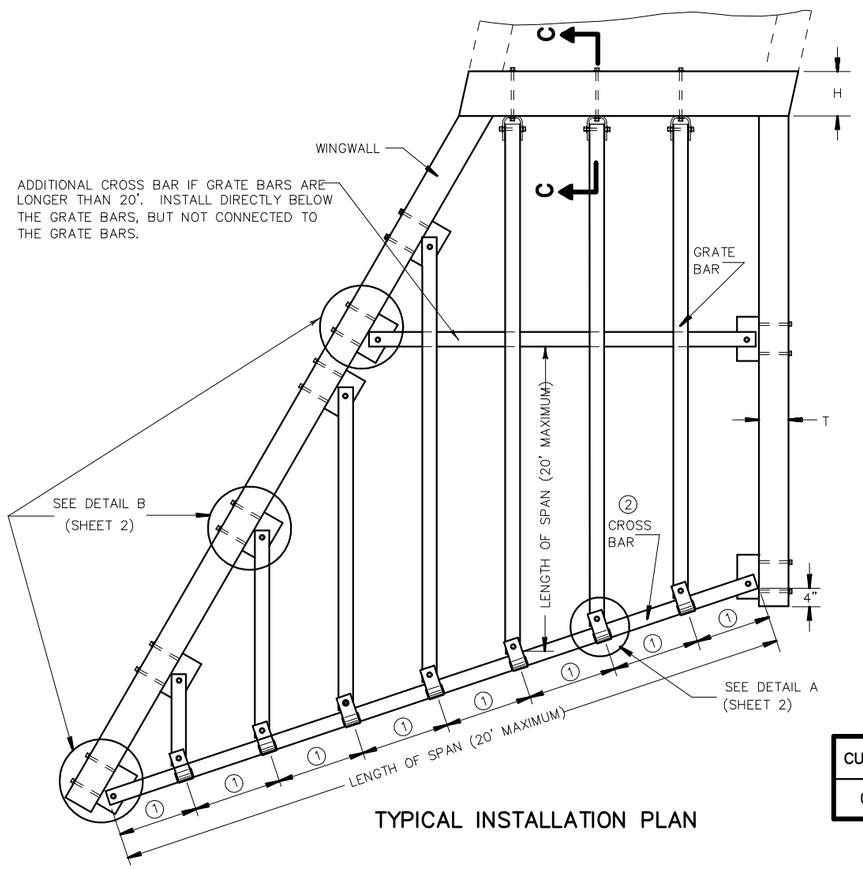
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CONSTRUCTION DETAIL - C-40-02	SHEET 27	E

2

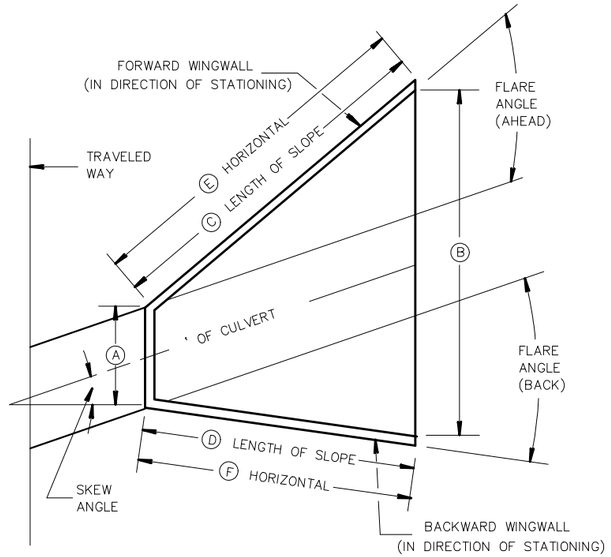


INSTALLATION TYPES

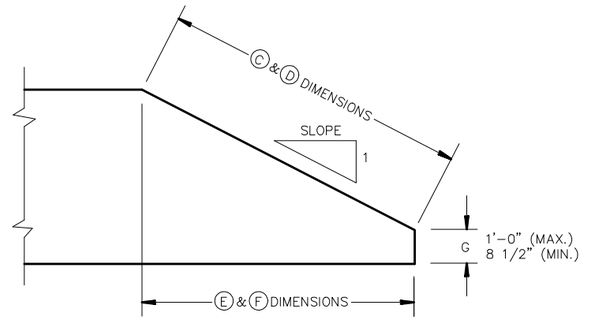
GRATE BARS TO BE PERPENDICULAR TO DIRECTION OF TRAFFIC FLOW



TYPICAL INSTALLATION PLAN



TOP VIEW



SIDE VIEW

DETAILS OF DIMENSIONS

CULVERT #	TYPE	③ CULVERT DIMENSIONS											
		A	B	C	D	E	F	G	H	T	SKEW ANGLE	FLARED ANGLES AHEAD	FLARED ANGLES BACK
C-40-02	1	3.5'	3.5'	16'	16'	15'	15'	1'	1'	9"	0°	0°	0°

GRATE & CROSS BAR SIZE REQUIREMENTS		
Length of Span (Ft.)	Nominal Pipe Size (In.)	O.D. Size (In.)
0–12	3.0	3.5
12–16	3.5	4
16–20	4.0	4.5

NOTES

SAFETY GRATE BARS SHALL BE FABRICATED FROM SCHEDULE 40, GRADE "B" GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A53 OR AN APPROVED EQUAL.

ANGLES AND BRACKETS SHALL MEET THE REQUIREMENTS OF ASTM A36 AND BE GALVANIZED IN ACCORDANCE WITH ASTM A123.

BOLTS AND NUTS SHALL MEET THE REQUIREMENTS OF ASTM A–307. WASHERS SHALL BE MADE OF STEEL AND MEET THE DIMENSIONAL REQUIREMENTS OF A.N.S.I. B18.2.2. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.

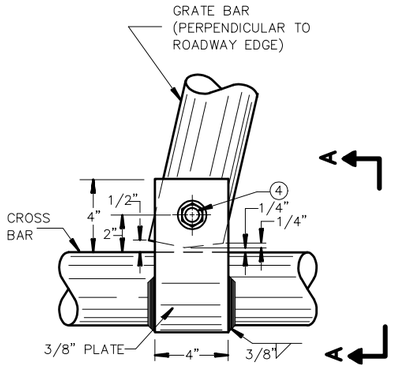
REINFORCING STEEL MAY BE ENCOUNTERED WHEN DRILLING THROUGH EXISTING STRUCTURE WALLS.

ALL PIPES, ANGLES AND BRACKETS SHALL BE GALVANIZED AFTER ALL CUTTING, WELDING, DRILLING AND FABRICATION,

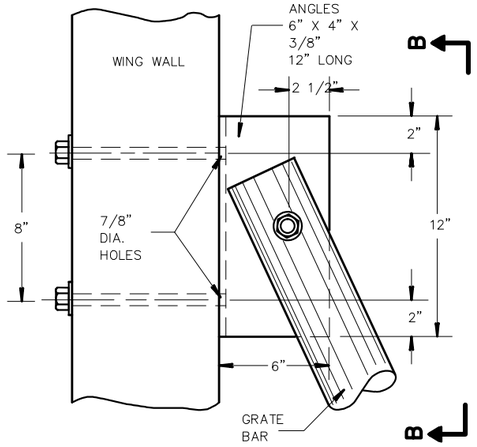
① EQUAL SPACES 24" MINIMUM, 30" MAXIMUM EDGE OF WINGWALL TO CENTER OF BRACKET OR CENTER TO CENTER OF BRACKET.

② CROSS BAR DIAMETER SHALL EQUAL OR EXCEED THE GRATE BAR DIAMETER.

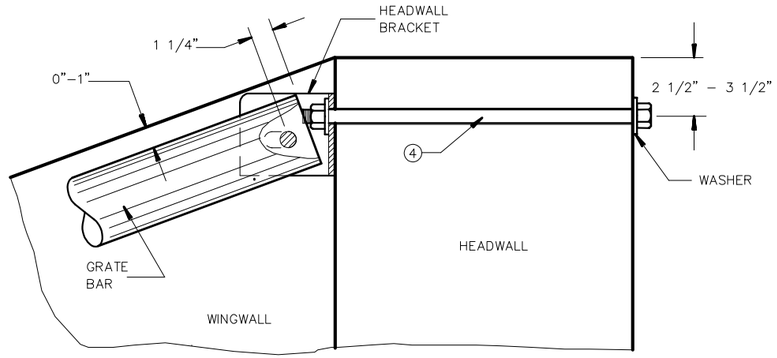
③ DIMENSIONS SHALL BE VERIFIED AT THE SITE BY THE CONTRACTOR BEFORE FABRICATION OF THE GRATE. THE CONTRACTOR IS RESPONSIBLE FOR USING THE CORRECT PIPE DIAMETERS AND CORRECT DIMENSIONS TO ASSURE PROPER FIT OF THE SAFETY GRATE.



DETAIL A
TOP VIEW

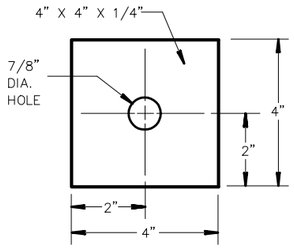


DETAIL B
TOP VIEW



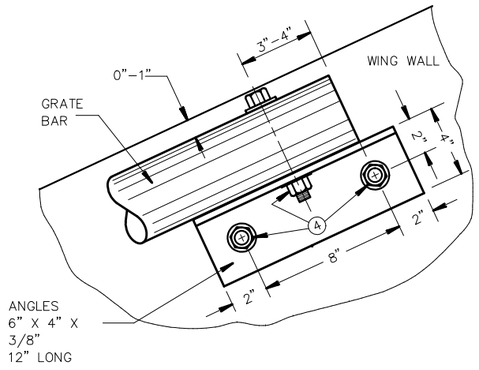
SECTION C–C

SECTION A–A



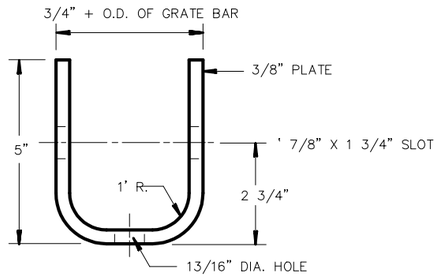
SHIM DETAIL

SHIMS SHALL BE PROVIDED WHEN NECESSARY TO EQUAL THE DIFFERENCE IN DIAMETERS OF GRATE BAR AND CROSS BAR

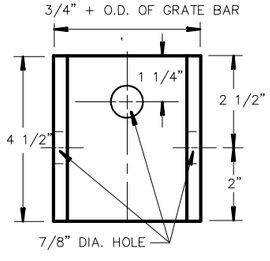


SECTION B–B

④ 3/4" DIA. BOLT WITH LOCK NUT AND WASHER



HEADWALL BRACKET
TOP VIEW



HEADWALL BRACKET
FRONT VIEW

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	SAFETY GRATE FOR BOX CULVERT	SHEET 29	E

2

LEGEND

SAWCUT XXXX

WETLAND

STH 36

STH 36 SB ℄

STH 36 NB ℄

STH 36 ℞

PC: 741+73.33

739+00 740+00 741+00 742+00 743+00 744+00

+02 +53 10' RT +83 +34 +93 +60 +88 30' LT +20 20' LT +71 20' RT +29 +38 +88 +81

775.04 775.11 775.38 775.12 775.34 775.12 775.35 775.15 775.33 775.14 775.33 775.12

774.98 774.96 774.69 774.58 774.66 774.39 774.33 774.71 774.37

REMOVING GUARDRAIL

REMOVING ASPHALTIC SURFACE

PREPARING FOUNDATION FOR ASPHALTIC SHOULDERS

PAVED SHOULDER WIDENING 4 1/4" HMA

PAVED SHOULDER WIDENING 4 1/4" HMA

HMA

STA 739+88 TO STA 743+00

REMOVING ASPHALTIC SURFACE AROUND BEAM GUARD

B-67-241

MUSKEGO CANAL

WETLANDS CONTINUE, UNIDENTIFIED END. DISTURBANCE IS ALLOWED WITHIN DITCHING AND SHAPING LIMITS.

BEAM GUARD LEGEND

- B1 BARRIER SYSTEM GRADING SHAPING FINISHING
- B2 MGS GUARDRAIL 3
- B3 MGS THRIE BEAM TRANSITION
- B4 MGS GUARDRAIL TERMINAL EAT
- B5 MGS GUARDRAIL TERMINAL TYPE 2
- B6 GUARDRAIL MOW STRIP ASPHALT

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	MEDIAN BEAM GUARD REPLACEMENT	SHEET 30	E

2

N

MUSKEGO CANAL

STA 745+60 TO STA 746+00
REMOVING ASPHALTIC SURFACE
AROUND BEAM GUARD
BASE AGGREGATE DENSE 3/4-INCH
B6

STA 745+60 TO STA 749+07
B1 B2 B3 B4

B1 B2 B5

SI

+69

+63

REMOVING GUARDRAIL

+07

+92

10"

8"

STH 36 SB ℄

B-67-100

PAVED SHOULDER
WIDENING 4 1/4" HMA

B2 B3 B4 B6

+25

3"

HMA

774.27

+85
30' LT

12"

10"

774.96
774.59

774.82
774.46

774.75
774.39

774.68
774.32

774.83
774.48

774.89
774.54

774.07

+85

REMOVING GUARDRAIL

SI

+65

20' LT

745+00

746+00

747+00

748+00

749+00

750+00

STH 36

STH 36 ℞

4"

10"

12"

775.68
775.36

775.70
775.39

775.73
775.42

+28
10' RT

775.72
775.47

775.53

+03

775.45

3"

STH 36 NB ℄

+62
20' RT

B2 B5 B6

PAVED SHOULDER
WIDENING 4 1/4" HMA

HMA

REMOVING SMALL CULVERT PIPE

8"

10"

+98

+18

SI

(-) TILE

(-) TILE

WETLANDS CONTINUE, UNIDENTIFIED END.
DISTURBANCE IS ALLOWED WITHIN
DITCHING AND SHAPING LIMITS.

LEGEND

SAWCUT XXXX

WETLAND

BEAM GUARD LEGEND

B1	BARRIER SYSTEM GRADING SHAPING FINISHING
B2	MGS GUARDRAIL 3
B3	MGS THRIE BEAM TRANSITION
B4	MGS GUARDRAIL TERMINAL EAT
B5	MGS GUARDRAIL TERMINAL TYPE 2
B6	GUARDRAIL MOW STRIP ASPHALT

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	MEDIAN BEAM GUARD REPLACEMENT	SHEET 31	E

FILE NAME : N:\PDS\C3D\CAD\22401330\021151_BG.DWG
LAYOUT NAME - ****

PLOT DATE : 8/17/2015 11:00 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- (A1) BASE PATCHING ASPHALTIC
- (A2) ASPHALTIC SURFACE SAFETY ISLANDS
- (C1) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (C2) SAWING CURB HEAD
- XXXX SAW CUT
- WATER SURFACE FLOW
- 6" PIPE UNDERDRAIN
- TAP 6" UNDERDRAIN INTO STRUCTURE OR PIPE
- CONCRETE ENDWALL FOR 6" UNDERDRAIN
- END CAP
- (XXX) CULVERT NUMBER

CHAMPIONS DRIVE

EXISTING ASPHALT

EXISTING ASPHALT

CONCRETE SIDEWALK 5-INCH CURB RAMP TYPE 2

EXISTING R/W

CP120

SEVEN WATERS TRAIL

SEVEN WATERS TRAIL

SI

SI

SI

10'

10'

10'

C2

C2

C2

C2

MATCH 81' LT

XXXX XXXX XXXX XXXX XXXX XXXX XXXX

STA 900+92
END CONCRETE REPAIR/ REPLACEMENT SB
BEGIN RESURFACING SB

REMOVING CURB & GUTTER (BURIED)

EXISTING 6" PIPE UNDERDRAIN TO REMAIN

CONC.

8'

12'

11'

CONNECT EXISTING 6" PIPE UNDERDRAIN TO INLET STRUCTURE

C1

EXISTING INLETS TO REMAIN

HMA

XXXX	782.11	782.36	12'	782.59	782.76
	782.35	782.60	12'	782.83	783.00
	782.59	782.84	12'	783.07	783.24
XXXX	782.35	782.60	12'	782.83	783.00
	782.11	782.36	12'	782.50	782.63
	XXXX 782.54	782.80	12'	783.05	783.24
	782.78	783.04	12'	783.29	783.48
XXXX	782.54	782.80	12'	783.05	783.24
	782.14	782.48	8'	782.73	782.92

C1 HMA

STH 36 SB ℄

C1

C1 HMA

12'

12'

12'

12'

12'

12'

12'

5'

2'

STH 36

900+00

901+00

902+00

903+00

904+00

905+00

STH 36 ℄

+67

+75

+85

A1

A2

REMOVING ASPHALTIC SURFACE

EXISTING 6" PIPE UNDERDRAIN TO REMAIN

CONNECT EXISTING 6" PIPE UNDERDRAIN TO STORM SEWER PIPE

+00
22' RT

+17
20' RT

RELIEF TRENCH

18A

STA 904+00
END RESUFACING
BEGIN RECONSTRUCTION

REMOVING CURB & GUTTER (BURIED)

MATCH 75' RT

EXISTING R/W

EXISTING ASPHALT

LOOMIS DRIVE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	RECONSTRUCTION DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\021101_ID.DWG
LAYOUT NAME - ****

PLOT DATE : 8/31/2015 1:57 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- A1 BASE PATCHING ASPHALTIC
- A2 ASPHALTIC SURFACE SAFETY ISLANDS
- C1 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- C2 SAWING CURB HEAD
- XXXX SAW CUT
- WATER SURFACE FLOW
- 6" PIPE UNDERDRAIN
- TAP 6" UNDERDRAIN INTO STRUCTURE OR PIPE
- CONCRETE ENDWALL FOR 6" UNDERDRAIN
- END CAP
- XXX CULVERT NUMBER

N

SEVEN WATERS TRAIL

EXISTING R/W

+30 72' LT

SI

+80 68' LT

REMOVING CURB & GUTTER (BURIED)

782.88 782.95 782.96 782.94 782.92 782.85 782.72 782.62 782.53 8' 782.28 782.03 781.78 C1 781.53 781.29 781.04

783.12 783.19 783.20 HMA 783.15 783.05 782.90 782.69 12' 782.44 782.19 781.94 781.69 781.45 781.20

783.36 783.43 783.44 783.39 783.29 783.14 782.93 12' 782.68 782.43 782.18 781.93 781.69 781.44

STH 36 SB ℄

783.12 783.19 783.20 783.15 783.05 782.85 782.90 782.78 782.69 12' 782.44 782.19 781.94 C1 781.69 781.45 781.20

A2 782.95

782.75 782.87 783.00 783.08 783.05 +80 36' LT 24' STH 36

+30 24' LT

REMOVING CURB & GUTTER (BURIED)

783.37 783.42 783.41 783.32 783.16 782.93 782.68 12' 782.43 782.18 781.93 C1 781.68 781.43 781.18

906+00 907+00 908+00 909+00 910+00 911+00 912+00

783.61 783.66 783.65 783.56 783.40 783.17 HMA 782.92 12' 782.67 782.42 782.17 781.92 781.67 781.42

STH 36 ℄

783.37 783.42 783.41 783.32 783.16 782.93 782.68 12' 782.43 782.18 781.93 781.68 781.43 781.18

783.05 783.10 783.09 783.00 782.84 782.61 782.36 8' 782.11 781.86 781.61 781.36 781.11 780.86

RELIEF TRENCH

2'

RELIEF TRENCH

SI

EXISTING R/W

HMOD
MUSKEGO E GPS
DO NOT DISTURB

SECTION CORNER MONUMENT
SEE GENERAL NOTES
FOR CONTACT INFORMATION
PRIOR TO BEGINNING CONSTRUCTION
NEAR MONUMENT

LOOMIS DRIVE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	RECONSTRUCTION DETAIL	SHEET 33	E

2

2

LEGEND

- A1 BASE PATCHING ASPHALTIC
- A2 ASPHALTIC SURFACE SAFETY ISLANDS
- C1 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- C2 SAWING CURB HEAD
- XXXX SAW CUT
- WATER SURFACE FLOW
- 6" PIPE UNDERDRAIN
- TAP 6" UNDERDRAIN INTO STRUCTURE OR PIPE
- CONCRETE ENDWALL FOR 6" UNDERDRAIN
- END CAP
- XXX CULVERT NUMBER

N

SEVEN WATERS TRAIL

CP121

EXISTING R/W

SI

REMOVING CURB & GUTTER (BURIED)

CONNECT TO EXISTING PIPE UNDERDRAIN

781.04 780.79 780.55 780.38 780.31 780.34 780.46 780.69 781.01 781.44 C1 8' 781.95 782.49 XXXX

781.20 780.95 780.71 780.54 780.47 780.50 780.62 780.85 781.17 781.60 12' 782.11 782.65

HMA

781.44 781.19 780.95 780.78 780.71 780.74 780.86 781.09 781.41 781.84 12' 782.35 782.89 XXXX

CONCRETE

STH 36 SB ℄

781.20 780.95 780.71 780.54 780.47 780.50 780.62 780.85 781.17 781.60 C1 12' 782.11 782.65

STH 36

REMOVING CURB & GUTTER (BURIED)

24'

CONNECT TO EXISTING PIPE UNDERDRAIN

781.18 780.93 780.70 780.55 780.50 780.53 780.66 780.87 781.18 781.58 C1 12' 782.06 782.60 XXXX

912+00 913+00 914+00 915+00 916+00 917+00 918+00

781.42 781.17 780.94 780.79 780.74 780.77 780.90 781.11 781.42 781.82 12' 782.30 782.84

CONCRETE

STH 36 ℄

781.18 780.93 780.70 780.55 780.50 780.53 780.66 780.87 781.18 781.58 12' 782.06 782.60 XXXX

HMA

780.86 780.61 780.38 780.23 780.18 780.21 780.34 780.55 780.86 781.26 8' 781.74 782.28 XXXX

ASPH.

RELIEF TRENCH

2'

RELIEF TRENCH

SI

EXISTING R/W

CONNECT TO EXISTING PIPE UNDERDRAIN

STA 917+50
END RECONSTRUCTION
BEGIN CONCRETE PAVEMENT REPAIR/ REPLACEMENT

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	RECONSTRUCTION DETAIL	SHEET 34	E

2

2

N

CP118

SEVEN WATERS TRAIL

EXISTING 6" PIPE UNDERDRAIN TO REMAIN
STA 892+15 TO STA 902+00

STH 36 SB ℄

CONC.

REMOVING CURB & GUTTER

ASPHALTIC SURFACE TEMPORARY

+04 36' LT 781.74 781.62

+01 24' LT 781.87 781.73

781.99 781.85

782.01 781.87

+28 24' LT 782.07 782.01 782.07

+65 29' LT 782.04 782.04

782.18 782.23

782.15 782.23

782.05

SI +58 29' LT 782.34 782.44

782.46 782.26

782.21 782.48

782.37 782.30

782.20

+99 17' LT 782.40 782.50

782.53

892+00 893+00 894+00 895+00 896+00 897+00

+56.5 12' LT

STH 36 ℞

+85 15' LT

+28 22' LT

+65 19' LT

HMA

REMOVING CURB & GUTTER

DRAIN SLOTTED VANE LONGITUDINAL TEMPORARY

STH 36

BEGIN TEMPORARY CROSSOVER CONSTRUCTION
STA 893+04

EXISTING R/W

SEE CONSTRUCTION STAGING-
TEMPORARY CROSSOVER
FOR TYPICAL SECTION

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TEMPORARY CROSSOVER CONSTRUCTION	SHEET 35	E

2

2

N

SEVEN WATERS TRAIL

CHAMPIONS DRIVE

DRAIN SLOTTED VANE LONGITUDINAL TEMPORARY

EXISTING 6" PIPE UNDERDRAIN TO REMAIN
STA 892+15 TO STA 902+00

REMOVING CURB & GUTTER

+90
29' LT

+47
24' LT

+89.7
24' LT

CONC.

HMA

+14
36' LT

STH 36 SB ℄

ASPHALTIC SURFACE TEMPORARY

782.13 781.96 781.78 781.53 781.29 781.09 780.84 781.16

781.95 781.86 781.60 781.53 781.50 781.60 781.22 781.02 780.78

782.10 782.01 781.84 781.71 781.36

12' 12' 12' 12' 12' 12'

898+00 899+00 900+00 901+00 902+00 903+00

+90
19.2' LT

+47
22' LT

+73
16.3' LT

+45
29' LT

STH 36

SI

REMOVING ASPHALTIC SURFACE

HMA

STH 36 ℞

REMOVING CURB & GUTTER

EXISTING 6" PIPE UNDERDRAIN TO REMAIN
STA 899+00 TO STA 902+00

END TEMPORARY CROSSOVER CONSTRUCTION
STA 901+14

EXISTING R/W

SEE CONSTRUCTION STAGING-
TEMPORARY CROSSOVER
FOR TYPICAL SECTION

LOOMIS DRIVE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TEMPORARY CROSSOVER CONSTRUCTION	SHEET 36	E

2

N

SEVEN WATERS TRAIL

EXISTING R/W

CP121

MH

HMA

CONC.

STH 36 SB ℄

STH 36

SI

783.05

783.58

783.65

783.09

784.12

784.05

784.17

784.24

784.75

784.74

784.81

784.84

785.26

785.25

785.32

785.36

785.38

785.41

785.44

785.72

785.84

785.95

786.28

786.40

786.50

786.78

786.90

787.06

916+00

917+00

918+00

919+00

920+00

921+00

+50
12' LT

+66
36' LT

+66
19' LT

+65
24' LT

+65
26' LT

+15
19' LT

+15
29' LT

STH 36 ℞

CURVE RADIUS = 3,284.5 FT

BEGIN TEMPORARY CROSSOVER CONSTRUCTION
STA 917+50

WETLAND CONTINUES, UNIDENTIFIED END.
DISTURBANCE IS ALLOWED WITHIN
DITCHING AND SHAPING LIMITS.

EXISTING 6" PIPE UNDERDRAIN TO REMAIN
STA 917+50 TO STA 926+00

REMOVING CURB & GUTTER

12'

12'

24'

12'

12'

ASPHALTIC
SURFACE
TEMPORARY

ASPH.

EXISTING R/W

SEE CONSTRUCTION STAGING-
TEMPORARY CROSSOVER
FOR TYPICAL SECTION

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TEMPORARY CROSSOVER CONSTRUCTION	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\021201_XO.DWG
LAYOUT NAME - ****

PLOT DATE : 10/1/2015 1:33 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

SEVEN WATERS TRAIL

EXISTING R/W

EXISTING 6" PIPE UNDERDRAIN TO REMAIN
STA 917+50 TO STA 926+00

REMOVING CURB & GUTTER

12'
12'
12'
12'

24'

ASPHALTIC SURFACE TEMPORARY

ASPH.

787.06 787.60 788.15 788.70
786.78 787.33 787.89 788.43
786.90 787.45 788.01 788.55

922+00 923+00 924+00 925+00 926+00 927+00

+50 29' LT — 789.23 / 789.07
+26 33' LT — 789.76 / 789.68
789.00 — 788.95 / 789.54 / 789.07 / 789.61
790.31 / 790.25 — 790.00 — 790.04
790.83 / 790.77
791.38
+55 36' LT
+11 31' LT
+71 17' LT
+50 19' LT
+64 23' LT
+64 25' LT

SI

CONC.

STH 36 SB ℄

STH 36

STH 36 NB ℄

REMOVING CURB & GUTTER

EXISTING 6" PIPE UNDERDRAIN TO REMAIN
STA 917+50 TO STA 926+00

END TEMPORARY CROSSOVER CONSTRUCTION
STA 925+55

EXISTING R/W

SEE CONSTRUCTION STAGING-
TEMPORARY CROSSOVER
FOR TYPICAL SECTION

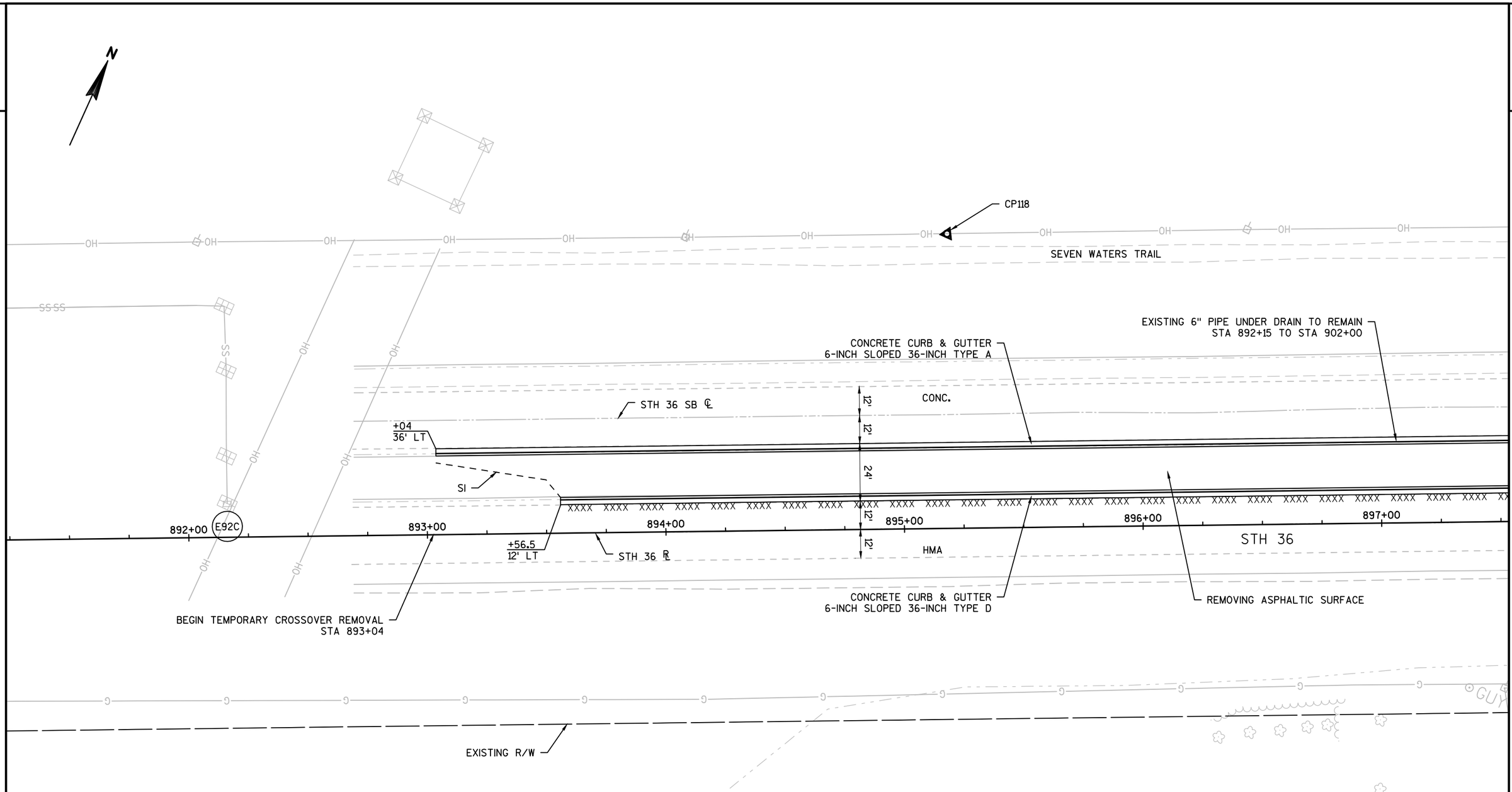
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TEMPORARY CROSSOVER CONSTRUCTION	SHEET 38	E

FILE NAME : N:\PDS\C3D\CAD\22401330\021201_XO.DWG
LAYOUT NAME - ****

PLOT DATE : 10/1/2015 1:33 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TEMPORARY CROSSOVER REMOVAL	SHEET 39	E

2

2

N

SEVEN WATERS TRAIL

CHAMPIONS DRIVE

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE A

EXISTING 6" PIPE UNDER DRAIN TO REMAIN
STA 892+15 TO STA 902+00

3" ASPHALTIC SURFACE SAFETY ISLANDS
4" BASE AGGREGATE DENSE 1 1/4-INCH

STH 36 SB ℄

12'
12'
24'
12'
12'

E101

E103A

E103

CONC.

HMA

+14
36' LT

5"

SI

+65

+73
16.3' LT

+16
12' LT

898+00

899+00

900+00

901+00

902+00

903+00

STH 36

HMA

STH 36 ℄

REMOVING ASPHALTIC SURFACE

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

EXISTING 6" PIPE UNDER DRAIN TO REMAIN
STA 899+00 TO STA 902+00

END TEMPORARY CROSSOVER REMOVAL
STA 901+14

EXISTING R/W

LOOMIS DRIVE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TEMPORARY CROSSOVER REMOVAL	SHEET 40	E

FILE NAME : N:\PDS\C3D\CAD\22401330\021301_XR.DWG
LAYOUT NAME - ****

PLOT DATE : 8/17/2015 11:23 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

OH OH OH

2

N

SEVEN WATERS TRAIL

EXISTING R/W

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE A

5" ASPHALTIC SURFACE
6" BASE AGGREGATE DENSE 1 1/4-INCH

EXISTING 6" PIPE UNDER DRAIN TO REMAIN
STA 917+50 TO STA 926+00

CONC.

STH 36 SB ℄

E125B +20

+05

+55
36' LT

SI

12'
12'
24'
12'
12'

922+00

923+00 E125C

924+00

+08

+71
17' LT

925+00

926+00

927+00

STH 36 ℄

STH 36

CONC.

ASPH.

REMOVING ASPHALTIC SURFACE

EXISTING 6" PIPE UNDER DRAIN TO REMAIN
STA 917+50 TO STA 926+00

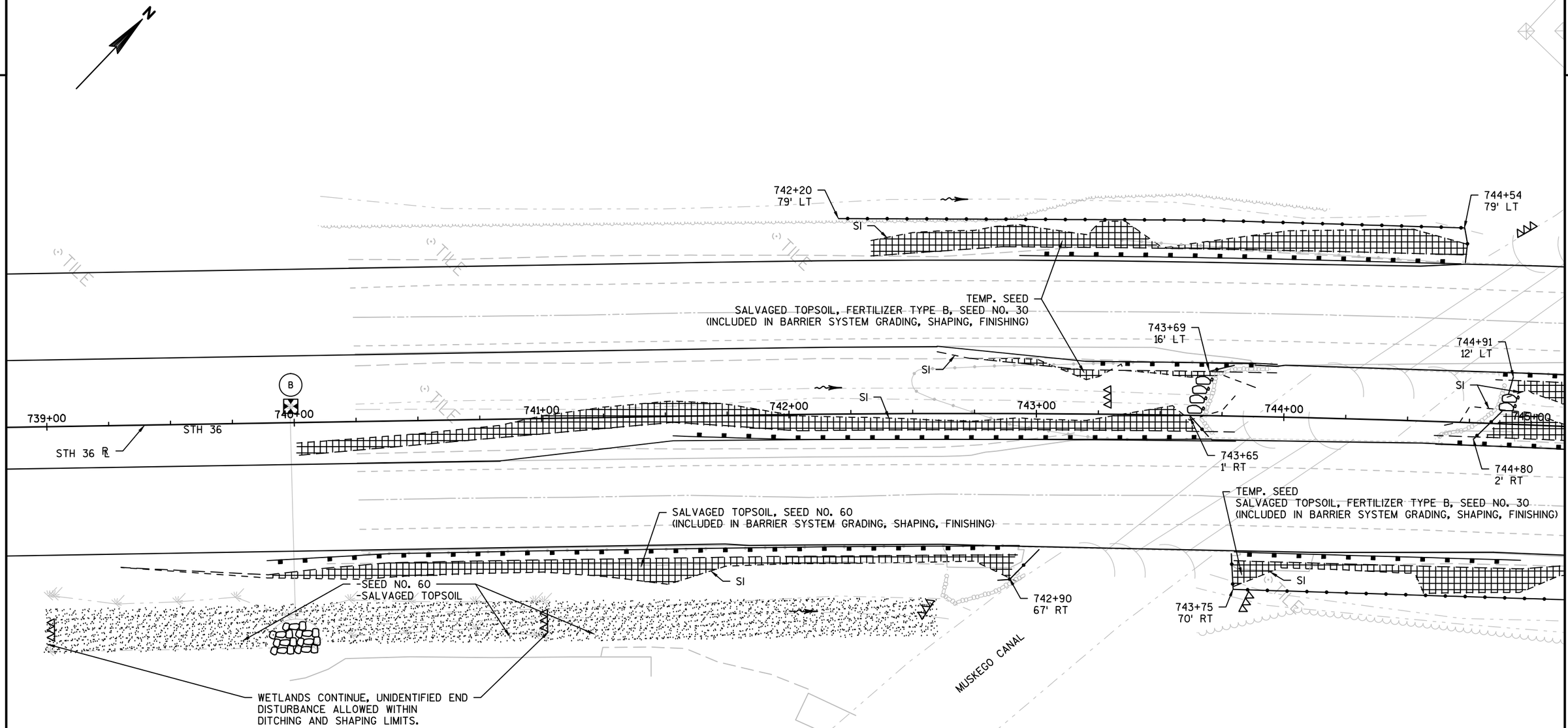
END TEMPORARY CROSSOVER REMOVAL
STA 925+55

EXISTING R/W

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE A

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TEMPORARY CROSSOVER REMOVAL	SHEET 42	E

2



LEGEND

- A INLET PROTECTION TYPE A
- B INLET PROTECTION TYPE B
- C INLET PROTECTION TYPE C
- D INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- ROCK BAGS
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS II TYPE C
- SURFACE WATER FLOW
- WETLANDS

NOTE:
-PLACING HEAVY RIPRAP DURING AVERAGE OR BELOW WATER LEVELS REQUIRES NO BMP'S UNLESS DIRECTED BY THE ENGINEER. UNDISTRIBUTED QTY OF ROCK BAGS AND TURBIDITY BARRIER INCLUDED IF WORK NEEDS TO BE DONE DURING HIGH WATER LEVELS.
SEE CONSTRUCTION DETAILS B-67-100 AND B-67-241.

-SEE PLAN DETAIL SHEETS FOR ADDITIONAL EROSION CONTROL ALONG PROJECT

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	EROSION CONTROL - MUSKEGO CANAL	SHEET 43	E

NOTE:
-PLACING HEAVY RIPRAP DURING AVERAGE OR BELOW WATER LEVELS REQUIRES NO BMP'S UNLESS DIRECTED BY THE ENGINEER. UNDISTRIBUTED QTY OF ROCK BAGS AND TURBIDITY BARRIER INCLUDED IF WORK NEEDS TO BE DONE DURING HIGH WATER LEVELS.
SEE CONSTRUCTION DETAILS B-67-100 AND B-67-241.

-SEE PLAN DETAIL SHEETS FOR ADDITIONAL EROSION CONTROL ALONG PROJECT

LEGEND

- A INLET PROTECTION TYPE A
- B INLET PROTECTION TYPE B
- C INLET PROTECTION TYPE C
- D INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- ROCK BAGS
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS II TYPE C
- SURFACE WATER FLOW
- WETLANDS

N

MUSKEGO CANAL

745+70
87' LT

749+07
95' LT

750+05
77' LT

TEMP. SEED
SALVAGED TOPSOIL, FERTILIZER TYPE B, SEED NO. 30
(INCLUDED IN BARRIER SYSTEM GRADING, SHAPING, FINISHING)

745+00
746+00
747+00
748+00
749+00
750+00
751+00
STH 36
STH 36 ℄
B

TEMP. SEED
SALVAGED TOPSOIL, FERTILIZER TYPE B, SEED NO. 30
(INCLUDED IN BARRIER SYSTEM GRADING, SHAPING, FINISHING)

745+30
70' LT

TILE

-SEED NO. 60
-SALVAGED TOPSOIL

WETLANDS CONTINUE, UNIDENTIFIED END
DISTURBANCE ALLOWED WITHIN
DITCHING AND SHAPING LIMITS.

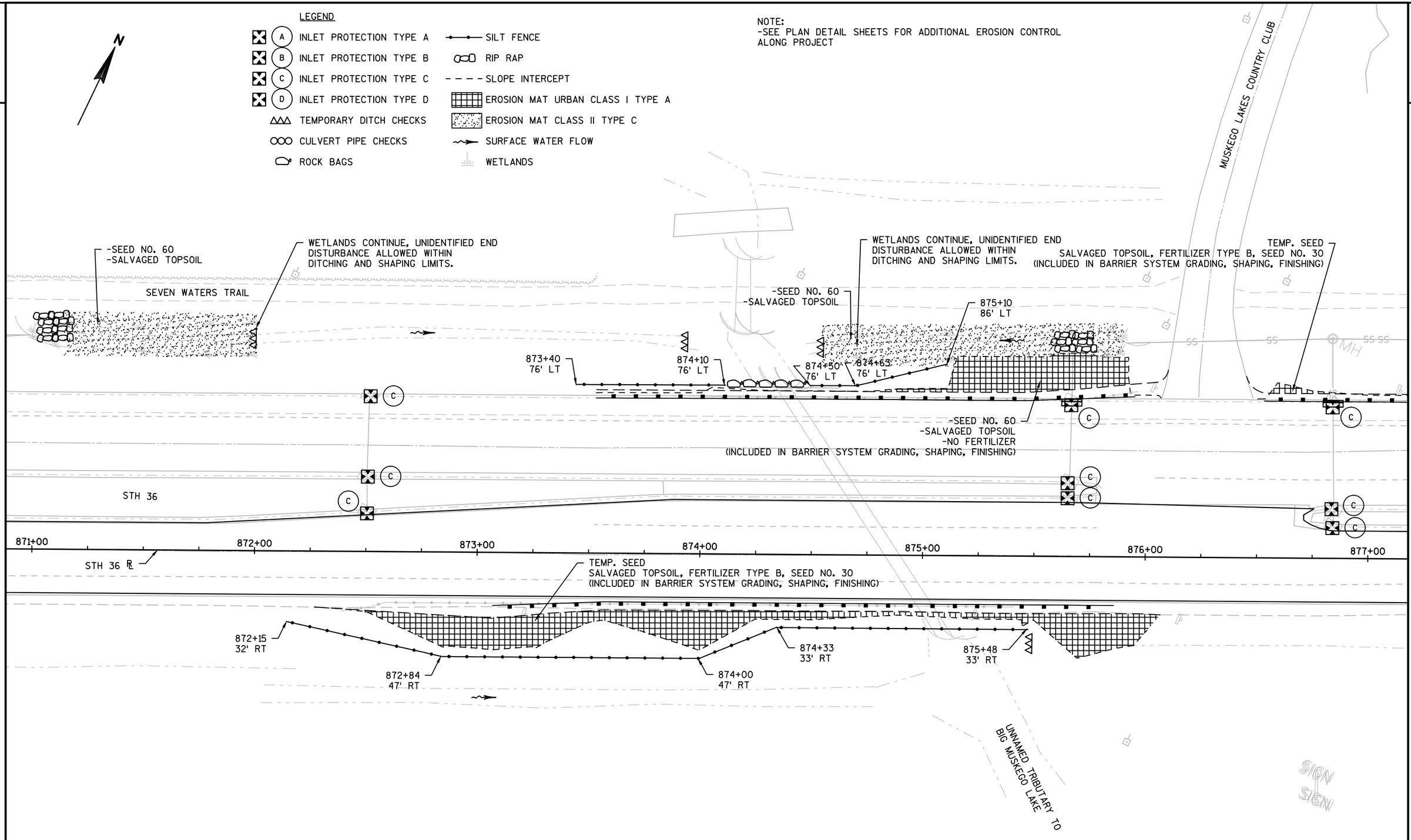
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	EROSION CONTROL - MUSKEGO CANAL	SHEET 44	E

2

LEGEND

- A INLET PROTECTION TYPE A
- B INLET PROTECTION TYPE B
- C INLET PROTECTION TYPE C
- D INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- ROCK BAGS
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS II TYPE C
- SURFACE WATER FLOW
- WETLANDS

NOTE:
-SEE PLAN DETAIL SHEETS FOR ADDITIONAL EROSION CONTROL ALONG PROJECT



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	EROSION CONTROL - UNNAMED TRIBUTARY TO BIG MUSKEGO LAKE	SHEET 45	E

2

2

N

SEVEN WATERS TRAIL

TEMP. SEED
SALVAGED TOPSOIL, FERTILIZER TYPE B, SEED NO. 30
(INCLUDED IN BARRIER SYSTEM GRADING, SHAPING, FINISHING)

STH 36

877+00 878+00 879+00 880+00 881+00 882+00

STH 36 ℄

SIGN
SIGN

NOTE:
-SEE PLAN DETAIL SHEETS FOR ADDITIONAL EROSION CONTROL ALONG PROJECT

LEGEND

- A INLET PROTECTION TYPE A
- B INLET PROTECTION TYPE B
- C INLET PROTECTION TYPE C
- D INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- ROCK BAGS
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS II TYPE C
- SURFACE WATER FLOW
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	EROSION CONTROL - UNNAMED TRIBUTARY TO BIG MUSKEGO LAKE	SHEET 46	E

2

NOTE:
-SEE PLAN DETAIL SHEETS FOR ADDITIONAL EROSION CONTROL ALONG PROJECT

LEGEND

- A — INLET PROTECTION TYPE A
- B — INLET PROTECTION TYPE B
- C — INLET PROTECTION TYPE C
- D — INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- ROCK BAGS
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS II TYPE C
- SURFACE WATER FLOW
- WETLANDS

CHAMPIONS DRIVE

TEMP. SEED
TOPSOIL, FERTILIZER TYPE B, SEED NO. 30
EROSION MAT URBAN CLASS I TYPE A

SI

SEVEN WATERS TRAIL

TEMP. SEED
TOPSOIL, FERTILIZER TYPE B, SEED NO. 30

STH 36

STAGE 1

STAGE 1

900+00 901+00 902+00 903+00 904+00 905+00 906+00

STH 36 ℄

SALVAGED TOPSOIL, SEED MIX 30,
FERTILIZER, EROSION MAT URBAN CLASS I TYPE A

900+00
57' RT

901+30
57' RT

903+85
53' RT

SALVAGED TOPSOIL, FERTILIZER TYPE B, SEED NO. 30

OLD LOOMIS DRIVE

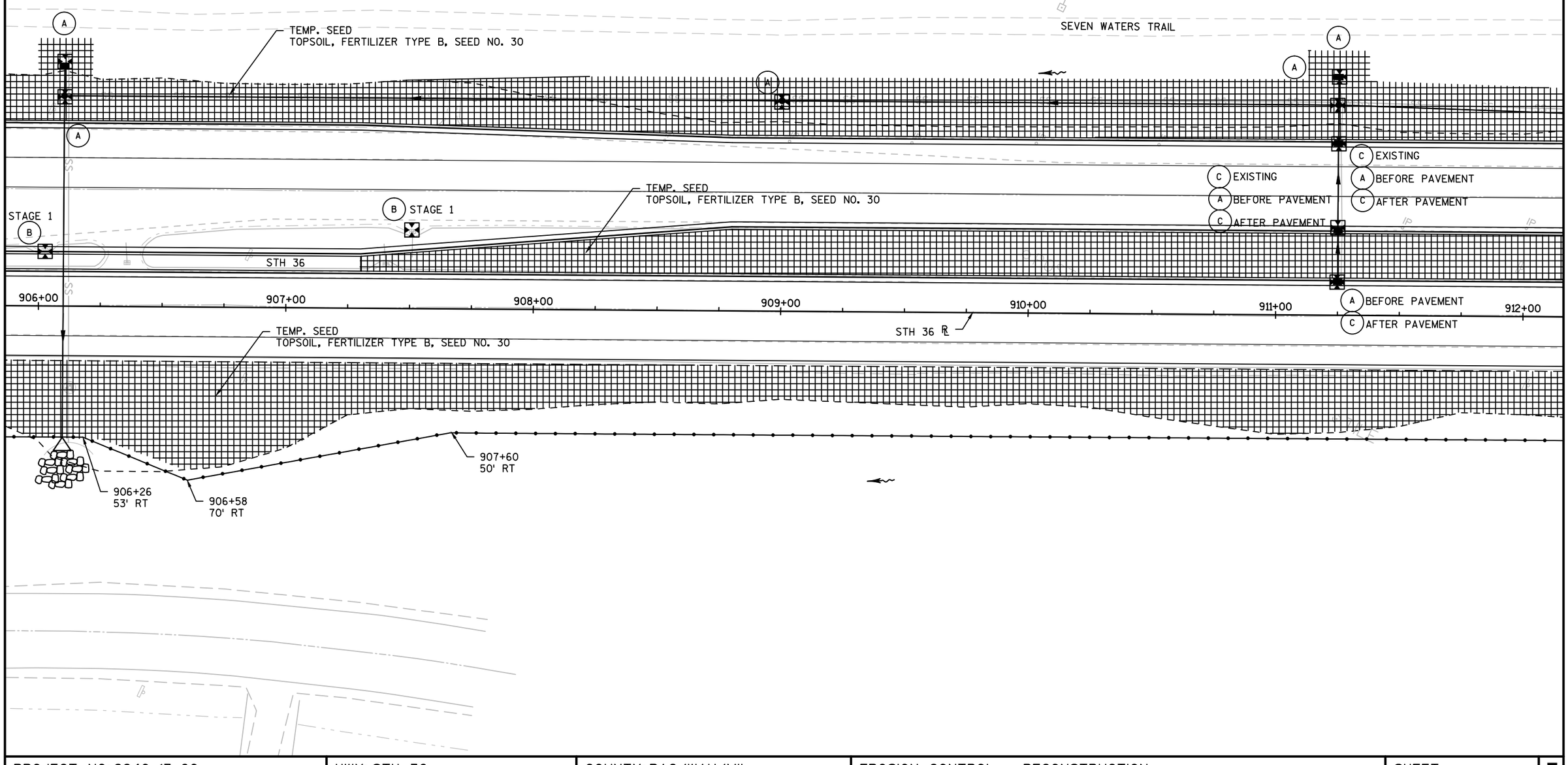
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	EROSION CONTROL - RECONSTRUCTION	SHEET 47	E

NOTE:
-SEE PLAN DETAIL SHEETS FOR ADDITIONAL EROSION CONTROL ALONG PROJECT

LEGEND

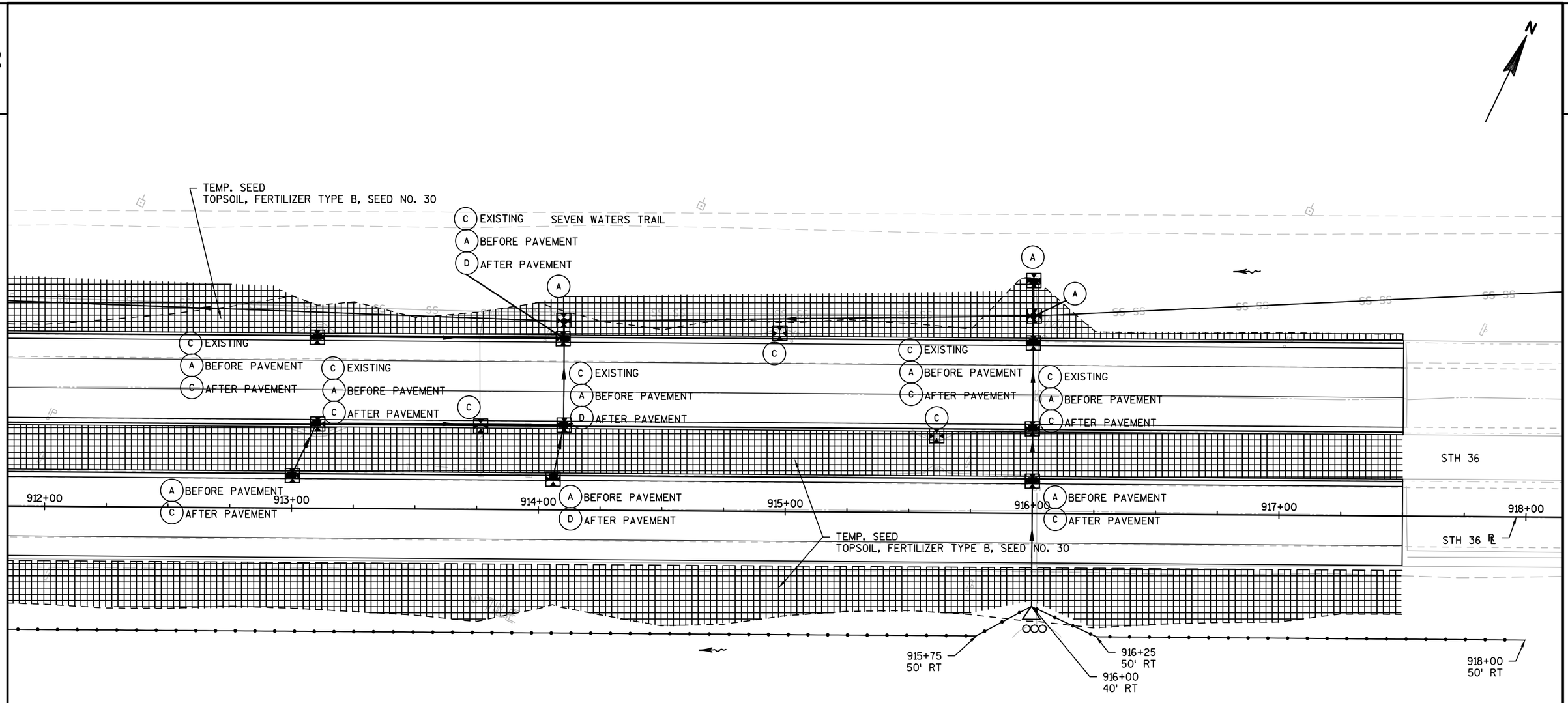
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- ROCK BAGS
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS II TYPE C
- SURFACE WATER FLOW
- WETLANDS

N



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	EROSION CONTROL - RECONSTRUCTION	SHEET 48	E

2



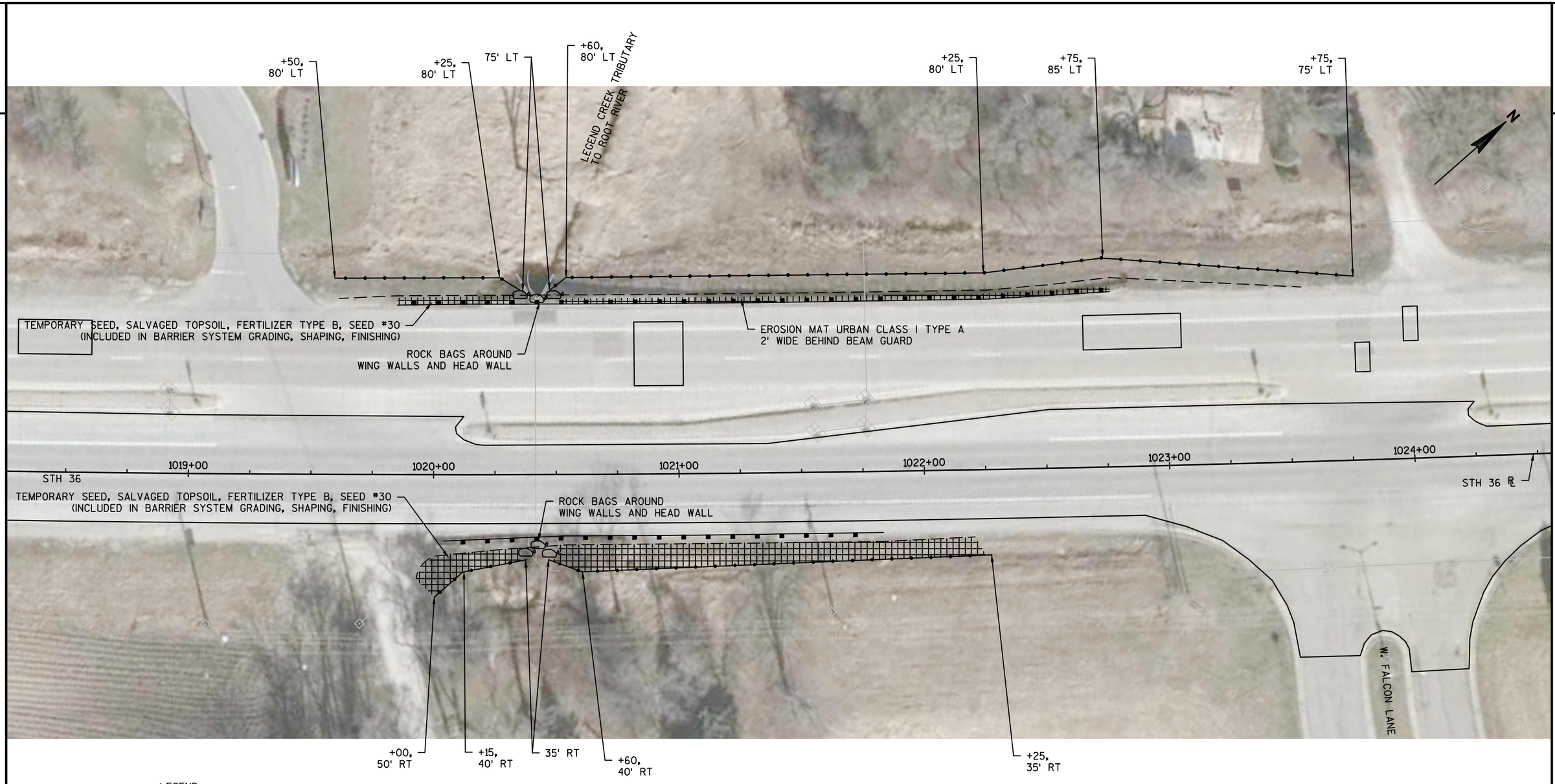
LEGEND

- A INLET PROTECTION TYPE A
- B INLET PROTECTION TYPE B
- C INLET PROTECTION TYPE C
- D INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- ROCK BAGS
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS II TYPE C
- SURFACE WATER FLOW
- WETLANDS

NOTE:
-SEE PLAN DETAIL SHEETS FOR ADDITIONAL EROSION CONTROL ALONG PROJECT

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	EROSION CONTROL - RECONSTRUCTION	SHEET 49	E

2



LEGEND

- A INLET PROTECTION TYPE A
- B INLET PROTECTION TYPE B
- C INLET PROTECTION TYPE C
- D INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- ROCK BAGS
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS II TYPE C
- SURFACE WATER FLOW
- WETLANDS

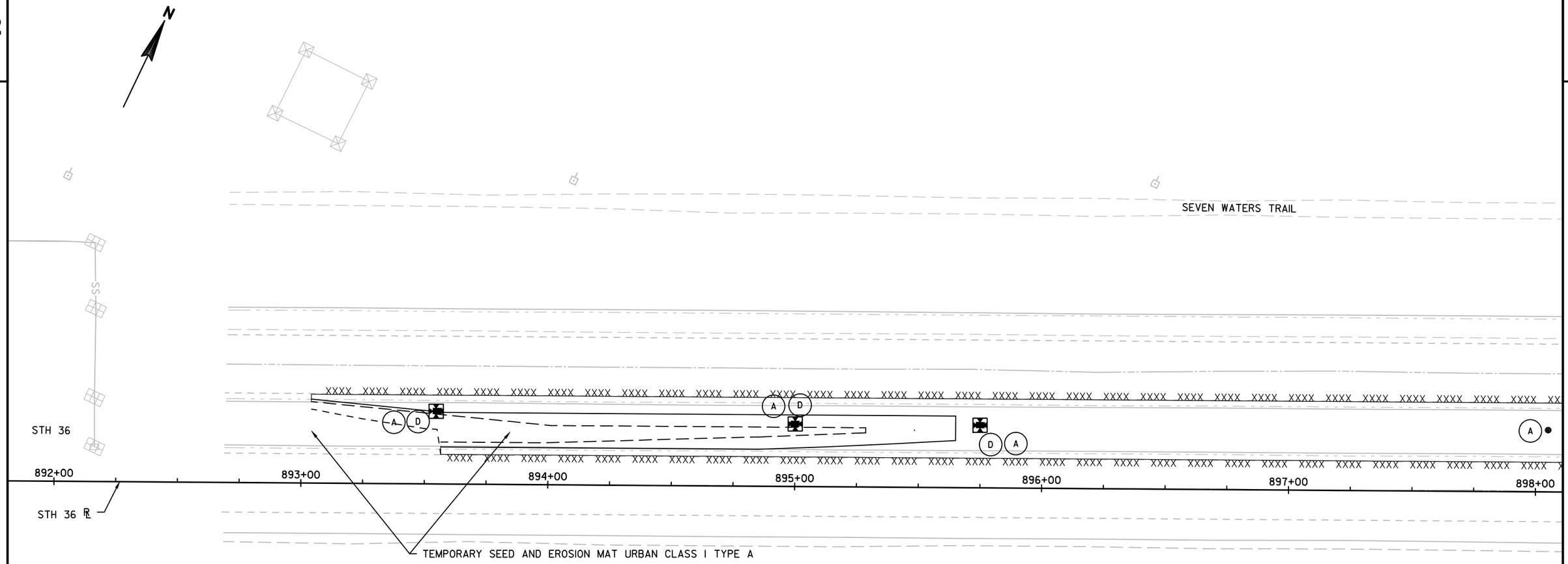
NOTE:

-SANDBAGGING AND DEWATERING C-40-02:
PLACE SEDMENT TRAY/ TEMPORARY SEDIMENT BASIN/ FILTER BAG ON PAVEMENT WITHIN CLOSED LANE.
DO NOT PLACE WITHIN 20 FEET OF A WETLAND AREA.

-SEE PLAN DETAIL SHEETS FOR ADDITIONAL EROSION CONTROL ALONG PROJECT

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	EROSION CONTROL: C-40-02	SHEET 50	E

2



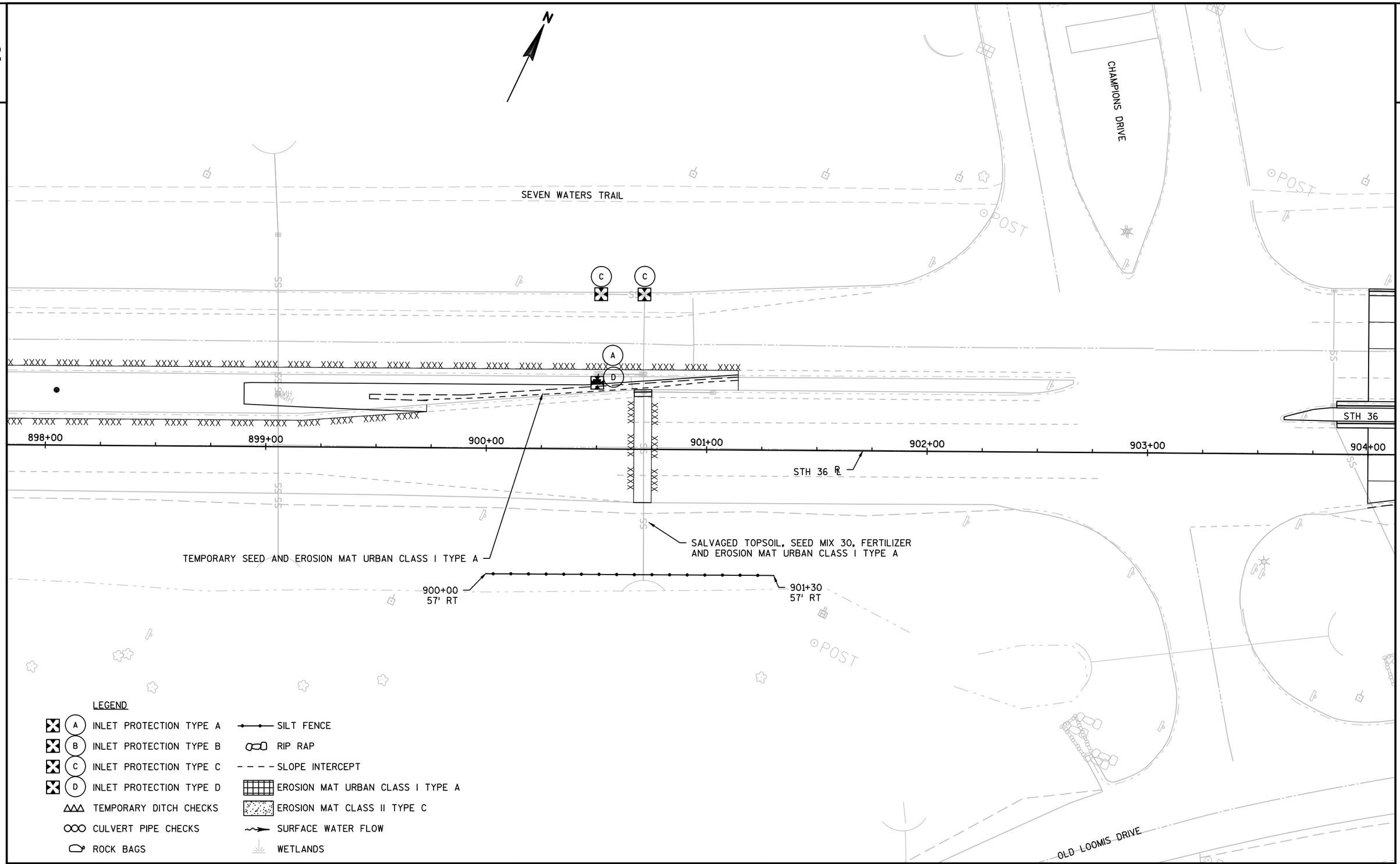
LEGEND

- A INLET PROTECTION TYPE A
- B INLET PROTECTION TYPE B
- C INLET PROTECTION TYPE C
- D INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- ROCK BAGS
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS II TYPE C
- SURFACE WATER FLOW
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	EROSION CONTROL - CROSSOVER	SHEET 51	E

2

2



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	EROSION CONTROL - CROSSOVER	SHEET 52	E

2

SEVEN WATERS TRAIL

TEMPORARY SEED AND EROSION MAT URBAN CLASS I TYPE A

STH 36

917+00 918+00 919+00 920+00 921+00 922+00 923+00

STH 36 ℄

918+00
50' RT

WETLAND CONTINUES, UNIDENTIFIED END.
DISTURBANCE IS ALLOWED WITHIN
DITCHING AND SHAPING LIMITS

-SEED NO. 60
-SALVAGED TOPSOIL

LEGEND

- A INLET PROTECTION TYPE A
- B INLET PROTECTION TYPE B
- C INLET PROTECTION TYPE C
- D INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- ROCK BAGS
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS II TYPE C
- SURFACE WATER FLOW
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	EROSION CONTROL - CROSSOVER	SHEET 53	E

FILE NAME : N:\PDS\C3D\CAD\22401330\022002_ECX0.DWG
LAYOUT NAME - 022002_ECX0 - 10_ECX0

PLOT DATE : 10/1/2015 1:48 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

SEVEN WATERS TRAIL

TEMPORARY SEED AND EROSION MAT URBAN CLASS I TYPE A

STH 36

923+00 924+00 925+00 926+00 927+00 928+00 929+0

STH 36

TILE TILE

CTH OO/ USH 45

LEGEND

- A INLET PROTECTION TYPE A
- B INLET PROTECTION TYPE B
- C INLET PROTECTION TYPE C
- D INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- ROCK BAGS
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS II TYPE C
- SURFACE WATER FLOW
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	EROSION CONTROL - CROSSOVER	SHEET 54	E

FILE NAME : N:\PDS\C3D\CAD\22401330\022002_ECXO.DWG
LAYOUT NAME - 022002_ECXO - 11_ECXO

PLOT DATE : 10/1/2015 1:48 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

SEVEN WATERS TRAIL

TEMP. SEED
TOPSOIL, FERTILIZER TYPE B, SEED NO. 30

STH 36

892+00 E92C 893+00 894+00 895+00 896+00 897+00 898+00

STH 36 ℄

10' WIDE
TEMPORARY SEED, TOPSOIL,
FERTILIZER AND SEED NO. 30

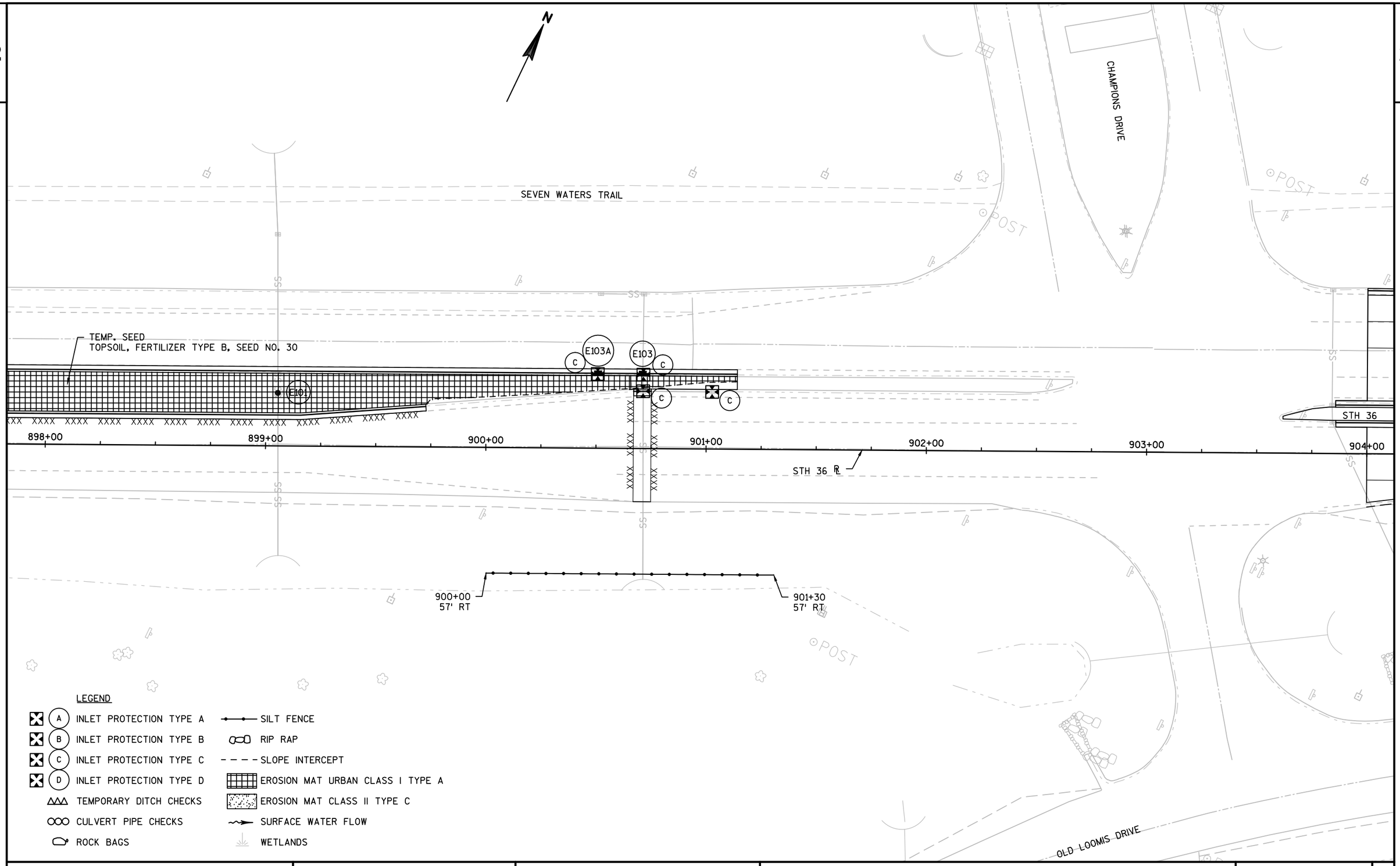
LEGEND

- A INLET PROTECTION TYPE A
- B INLET PROTECTION TYPE B
- C INLET PROTECTION TYPE C
- D INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- ROCK BAGS
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS II TYPE C
- SURFACE WATER FLOW
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	EROSION CONTROL - CROSSOVER REMOVAL	SHEET 55	E

FILE NAME : N:\PDS\C3D\CAD\22401330\022003_ECXR.DWG
LAYOUT NAME - 022003_ECXR - 12_ECXR
PLOT DATE : 8/17/2015 4:34 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	EROSION CONTROL - CROSSOVER REMOVAL	SHEET 56	E

FILE NAME : N:\PDS\C3D\CAD\22401330\022003_ECXR.DWG
LAYOUT NAME - 022003_ECXR - 13_ECXR
PLOT DATE : 8/17/2015 4:34 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

SEVEN WATERS TRAIL

SS

C

E124B

E124C

E125B

TEMP. SEED
TOPSOIL, FERTILIZER TYPE B, SEED NO. 30

STH 36

917+00

918+00

919+00

920+00

921+00

922+00

923+00

STH 36 ℄

WETLANDS CONTINUE, UNIDENTIFIED END.
DISTURBANCE IS ALLOWED WITHIN
DITCHING AND SHAPING LIMITS.

DITCHING AND SHAPING
SHOWN ON EC-CROSSOVER SHEET

LEGEND

- A INLET PROTECTION TYPE A
- B INLET PROTECTION TYPE B
- C INLET PROTECTION TYPE C
- D INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- ROCK BAGS
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS II TYPE C
- SURFACE WATER FLOW
- WETLANDS

PROJECT NO:2240-13-60	HWY: STH 36	COUNTY:RAC/WAU/MIL	EROSION CONTROL - CROSSOVER REMOVAL	SHEET 57	E

FILE NAME : N:\PDS\C3D\CAD\22401330\022003_ECXR.DWG
LAYOUT NAME - 022003_ECXR - 14_ECXR

PLOT DATE : 8/17/2015 4:34 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

SEVEN WATERS TRAIL

SS SS SSSS SSSS SSSS SSSS SSSS SSSS SSSS SSSS SSSS

MH

SS

C

E125B

C

TEMP. SEED
TOPSOIL, FERTILIZER TYPE B, SEED NO. 30

STH 36

C

923+00 E125C 924+00 925+00 926+00 927+00 928+00 929+0

STH 36 ℄

TILE

TILE

CTH 00/ USH 45

LEGEND

A INLET PROTECTION TYPE A	SILT FENCE
B INLET PROTECTION TYPE B	RIP RAP
C INLET PROTECTION TYPE C	SLOPE INTERCEPT
D INLET PROTECTION TYPE D	EROSION MAT URBAN CLASS I TYPE A
TEMPORARY DITCH CHECKS	EROSION MAT CLASS II TYPE C
CULVERT PIPE CHECKS	SURFACE WATER FLOW
ROCK BAGS	WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	EROSION CONTROL - CROSSOVER REMOVAL	SHEET 58	E

FILE NAME : N:\PDS\C3D\CAD\22401330\022003_ECXR.DWG
LAYOUT NAME - 022003_ECXR - 15_ECXR

PLOT DATE : 8/17/2015 4:35 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

TXX — TEMPORARY DRAINAGE STRUCTURE NUMBER

EXX — EXISTING DRAINAGE STRUCTURE NUMBER

SEVEN WATERS TRAIL

STA 892+16, 14' LT
EXISTING INLETS 2x3-HM
E92C

STH 36

T300 STA 893+55, 29.5' LT
Type MS - INLETS MEDIAN 1 - 2

STH 36 SB ℄

T302 STA 895+75, 25.4' LT
Type MS - INLETS MEDIAN 1 - 2

PT300 PT301 PT302

890+00 891+00 892+00 893+00 894+00 895+00 896+00 897+00

STH 36 ℞

STA 895+00, 25.4' LT
Type MS - INLETS MEDIAN 1 - 2
T301

DRAIN SLOTTED VANE
LONGITUDINAL TEMPORARY

795 790 785 780 775 770 765 760 755

E92C 781.80 — 777.80

SSPRC 12-INCH @ 0.75%
PT300

T300 781.62 — 778.85 / 778.90

SSPRC 12-INCH @ 0.50%
PT301

T301 781.79 — 779.63 / 779.75

SSPRC 12-INCH @ 0.50%
PT302

T302 782.03 — 780.13

889+50 +75 890+00 +25 +50 +75 891+00 +25 +50 +75 892+00 +25 +50 +75 893+00 +25 +50 +75 894+00 +25 +50 +75 895+00 +25 +50 +75 896+00 +25 +50 +75 897+00

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TEMPORARY STORM SEWER	SHEET 59	E

LEGEND

TXX TEMPORARY DRAINAGE STRUCTURE NUMBER

EXX EXISTING DRAINAGE STRUCTURE NUMBER

SEVEN WATERS TRAIL

T303 STA 898+05, 25' LT
TYPE C - CIRCULAR INLETS

E103A STA 900+51, 34' LT
EXISTING INLETS 2x3-HM

T302 STA 895+75, 25.4' LT
Type MS - INLETS MEDIAN 1 - 2

E101 STA 899+05, 24' LT
EXISTING MANHOLES 4-J

STH 36 SB ℄

PT304

PT302

PT303

E103 STA 900+71, 34' LT
EXISTING INLETS 2x3-HM

STH 36

896+00 897+00 898+00 899+00 900+00 901+00 902+00 903+00

STH 36 ℄

STA 900+50, 30.4' LT
Type MS - INLETS MEDIAN 1 - 2 T304

DRAIN SLOTTED VANE
LONGITUDINAL TEMPORARY

782.04 781.83 T303 781.38 E101

DRAIN SLOTTED VANE LONGITUDINAL TEMPORARY

PT303

SSPRC 15-INCH @ 0.75%

778.75 778.00

T304 E103A

780.79 780.76

PT304

SSPRC 12-INCH @ 4.00%

777.65 777.50

795 790 785 780 775 770 765 760 755

895+50 +75 896+00 +25 +50 +75 897+00 +25 +50 +75 898+00 +25 +50 +75 899+00 +25 +50 +75 900+00 +25 +50 +75 901+00 +25 +50 +75 902+00 +25 +50 +75 903+00

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TEMPORARY STORM SEWER	SHEET 60	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSPLAN\022500-SS.DWG
LAYOUT NAME - 022500B-SS

PLOT DATE : 10/1/2015 1:06 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

LEGEND

(TXX) TEMPORARY DRAINAGE STRUCTURE NUMBER

(EXX) EXISTING DRAINAGE STRUCTURE NUMBER

SEVEN WATERS TRAIL

STH 36

STH 36 SB ℄

STH 36 ℄

STA 919+01, 34' LT
EXISTING INLETS 2x3-HM
E124B

T401
STA 920+20, 24' LT
Type MS - INLETS MEDIAN 1 - 2

PT400

PT401

STA 923+11, 34' LT
EXISTING INLETS 2x3-HM
E125B

PT402

PT403

T403
STA 924+25, 24' LT
Type MS - INLETS MEDIAN 1 - 2

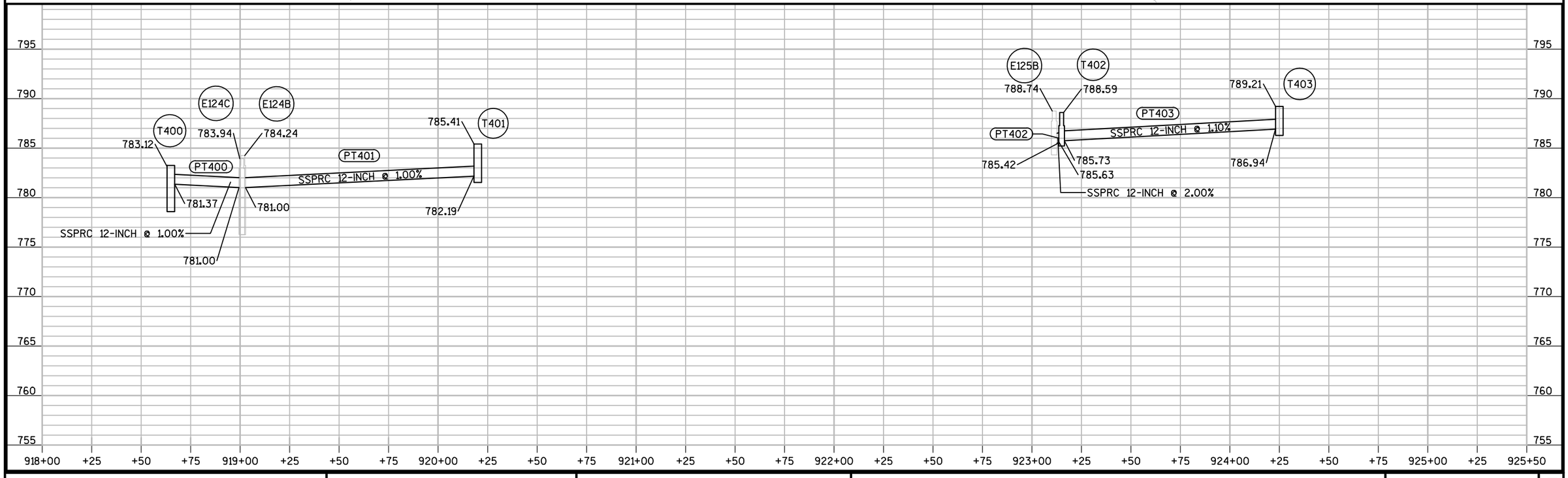
STA 923+11, 14' LT
EXISTING INLETS 2x3-HM
E125C

STA 918+65, 24' LT
Type MS - INLETS MEDIAN 1 - 2
T400

E124C
STA 919+01, 14' LT
EXISTING INLETS 2x3-HM

T402
STA 923+15, 24' LT
TYPE B - RECTANGULAR INLETS

918+00 919+00 920+00 921+00 922+00 923+00 924+00 925+00



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TEMPORARY STORM SEWER	SHEET 61	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSPLAN\022500-SS.DWG
LAYOUT NAME - 022500C-SS

PLOT DATE : 10/1/2015 1:07 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

LEGEND

(XX) DRAINAGE STRUCTURE NUMBER

[XX] EXISTING DRAINAGE STRUCTURE TO BE REMOVED

EXISTING STORM SEWER TO BE REMOVED

NOTE:

REMOVAL OF EXISTING PIPE UNDERDRAIN (PVC OR OTHER MATERIAL) IS INCIDENTAL TO EXCAVATION COMMON

TEMPORARY PIPE CONNECTION - UTILIZE FLEXIBLE PIPE TO CONNECT EXISTING AND NEW STORM SEWER PIPE AT CONSTRUCTION STAGE LIMITS. INCIDENTAL TO STORM SEWER PIPE ITEMS

CHAMPIONS DRIVE

SEVEN WATERS TRAIL

LOOMIS DRIVE

STH 36

STH 36 SB ℄

STH 36 ℄

TEMPORARY PIPE CONNECTION (18" PIPE REQUIRED)

E103 STA 900+71, 34.0' LT
EXISTING INLETS 2x3-HM

100A STA 900+71, 25.5' LT
INLETS 2x3-HM

100B STA 901+03, 25.9' LT
EXISTING INLETS 2x3-HM

100 STA 900+71, 55.2' RT
APRON ENDWALLS FOR CPRC 15-INCH

201A STA 906+10, 97.0' LT
INLETS MEDIAN 2G-MS

201 STA 906+10, 85.0' LT
MANHOLES 8-J

200 STA 906+10, 53.0' RT
APRON ENDWALLS FOR CPRC 42-INCH

P100A P100B P100 P200 P201A P201

1 2 3 4 5 6 7 8 9 10

XXX XXX

901+00 902+00 903+00 904+00 905+00 906+00 907+00 908+00

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	STORM SEWER	SHEET 62	E

NOTE:

REMOVAL OF EXISTING PIPE UNDERDRAIN (PVC OR OTHER MATERIAL) IS INCIDENTAL TO EXCAVATION COMMON

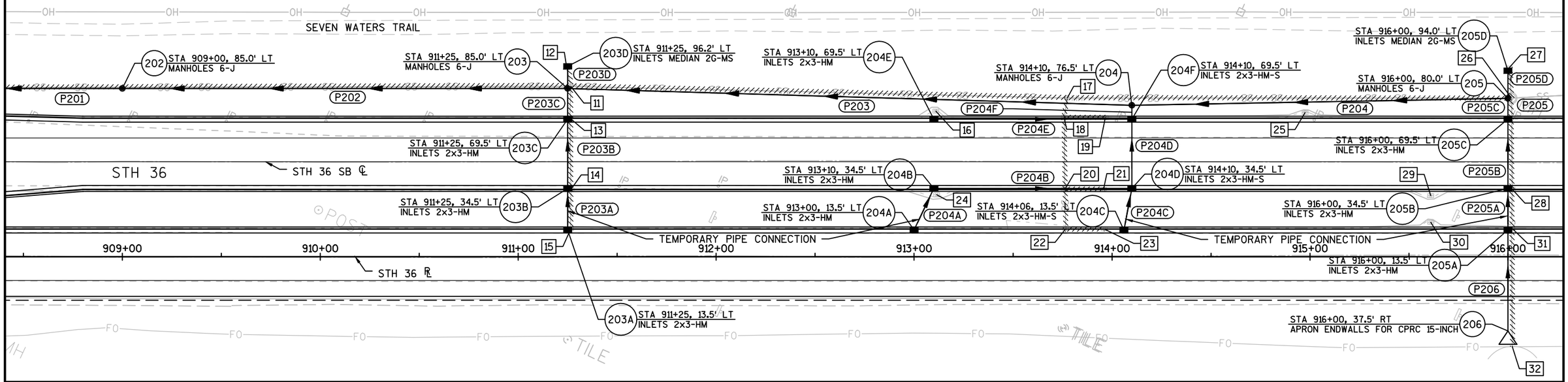
TEMPORARY PIPE CONNECTION - UTILIZE FLEXIBLE PIPE TO CONNECT EXISTING AND NEW STORM SEWER PIPE AT CONSTRUCTION STAGE LIMITS. INCIDENTAL TO STORM SEWER PIPE ITEMS

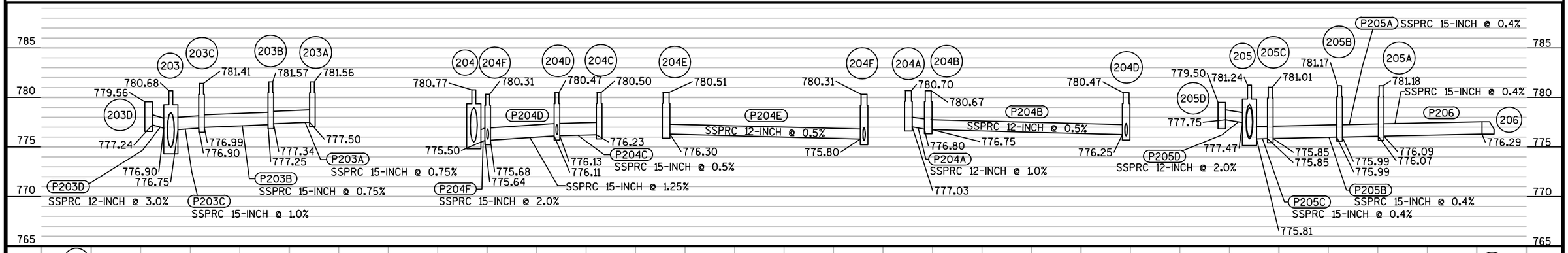
LEGEND

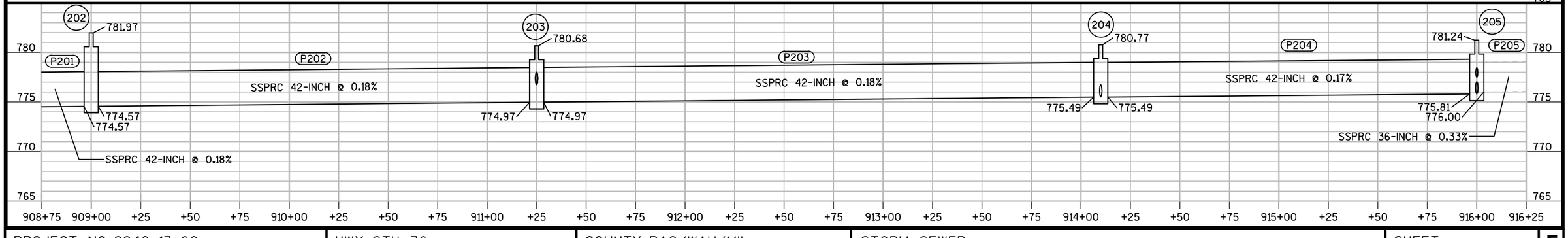
(XX) DRAINAGE STRUCTURE NUMBER

[XX] EXISTING DRAINAGE STRUCTURE TO BE REMOVED

////// EXISTING STORM SEWER TO BE REMOVED





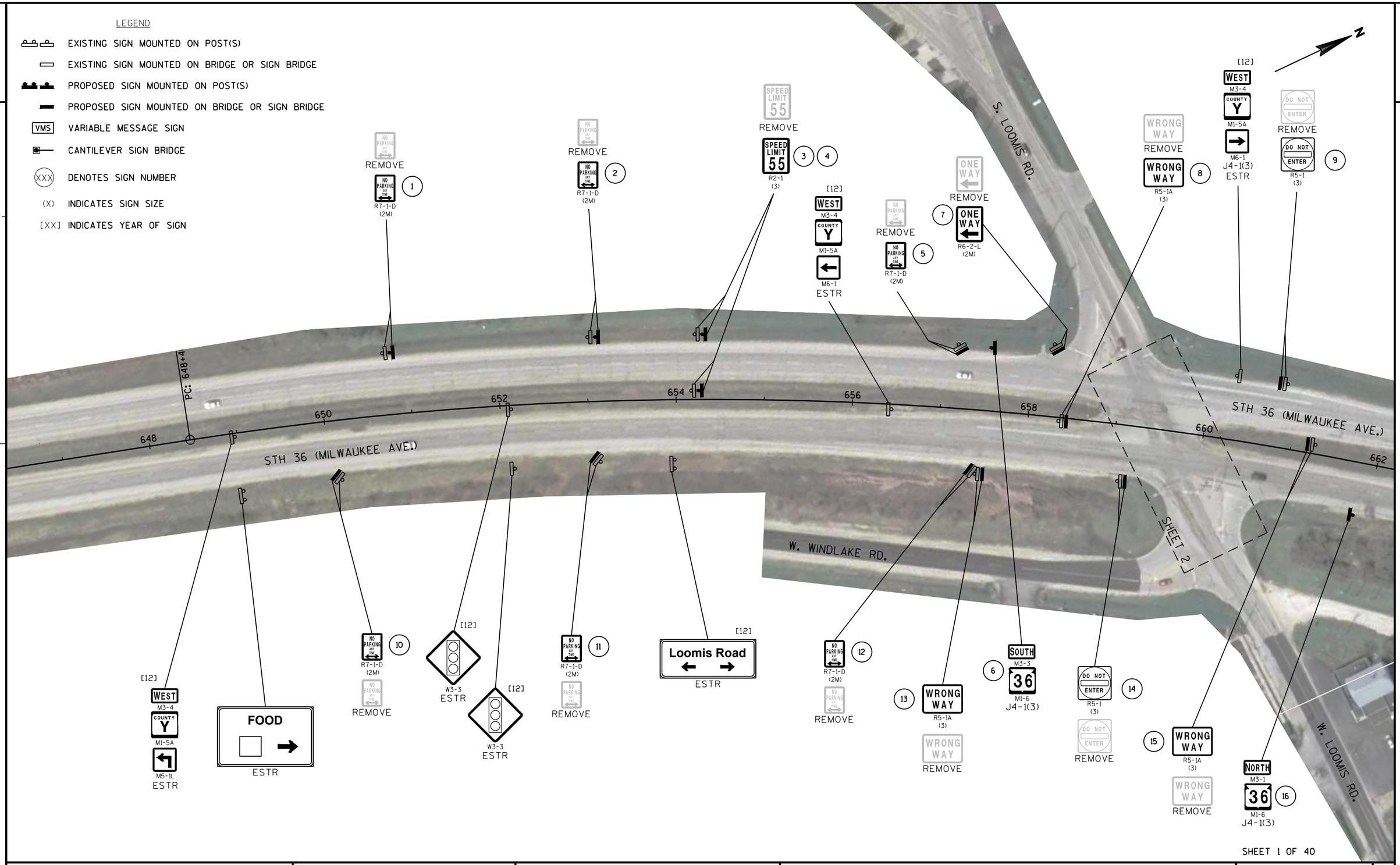


PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	STORM SEWER	SHEET 63	E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN



SHEET 1 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA/RACINE/MILWAUKEE	PERMANENT SIGNING	SHEET 64	E

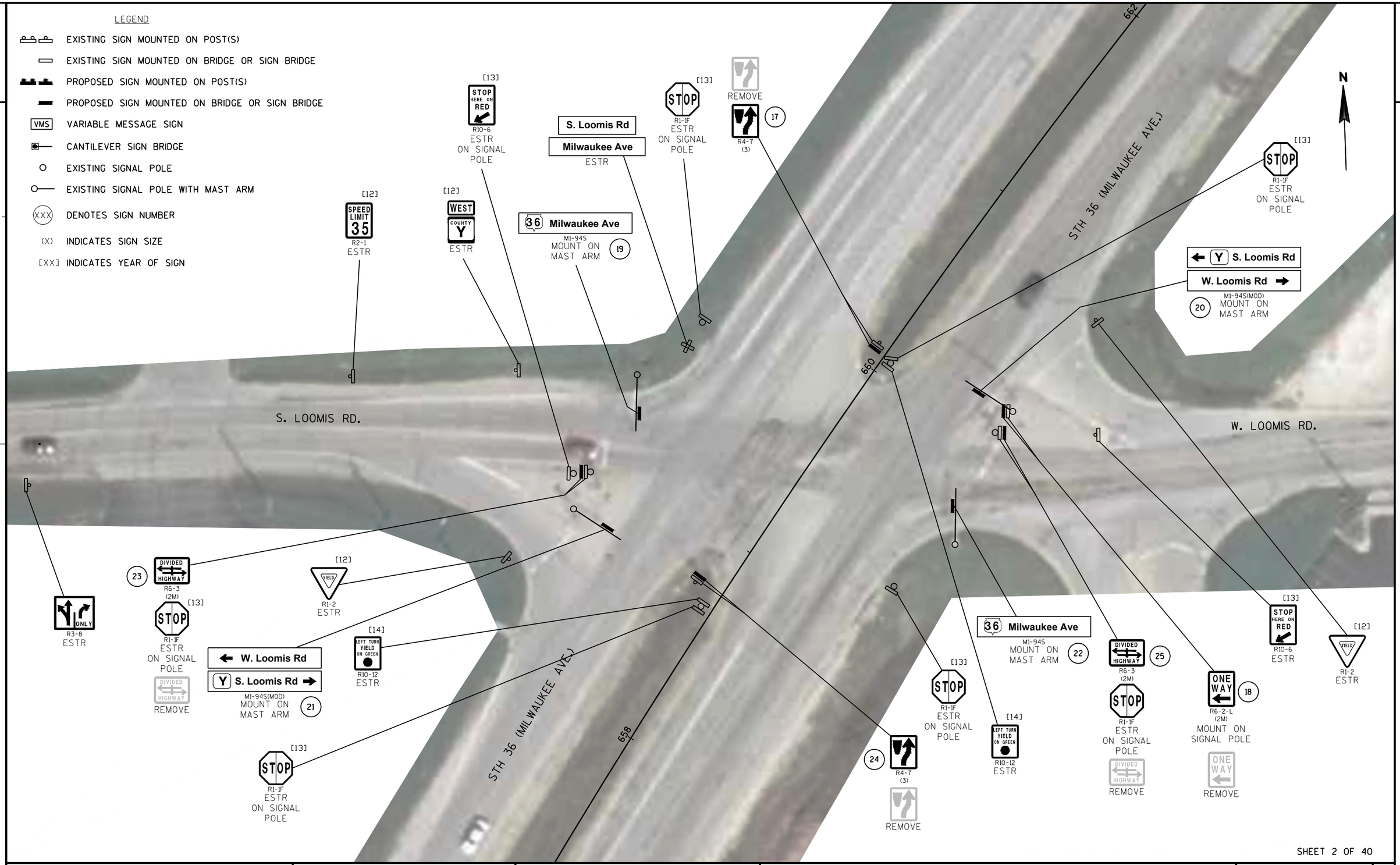
FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:05 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- [XX] INDICATES YEAR OF SIGN



SHEET 2 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 65	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:05 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- [XX] INDICATES YEAR OF SIGN

N

26 WRONG WAY R5-1A (3)

WRONG WAY REMOVE

REMOVE NO PARKING ANY TIME R7-1-D (2M) 27 28

[12] Loomis Road ESTR

REMOVE

29 30 W3-3 (3)

REMOVE NO PARKING ANY TIME R7-1-D (2M) 31 36

FOOD ESTR

[12] NO PARKING ANY TIME R7-1-D ESTR

[12] Windlake UNINCORPORATED I2-3-U ESTR

STH 36 (MILWAUKEE AVE.)

662 664 666 668 670 672 674 676

PT: 667+4

32 NO PARKING ANY TIME R7-1-D (2M)

REMOVE NO PARKING ANY TIME

33 34 SPEED LIMIT 55 R2-1 (3)

REMOVE SPEED LIMIT 55

35 NO PARKING ANY TIME R7-1-D (2M)

REMOVE NO PARKING ANY TIME

NORTH M3-1 36 M1-6 J4-1 340

[12] WEST M3-4 COUNTY Y M1-5A M5-1R ESTR

37 NO PARKING ANY TIME R7-1-D (2M)

REMOVE NO PARKING ANY TIME

SHEET 3 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 66	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:05 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

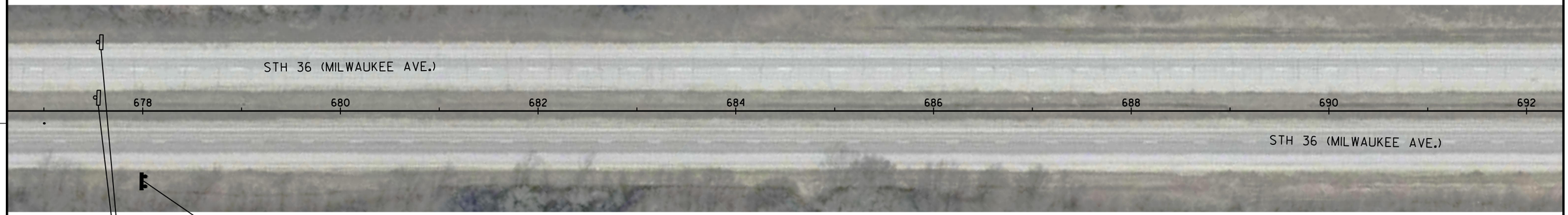
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- [XX] INDICATES YEAR OF SIGN

N

2



RIDESHARE
INFORMATION
www.rideshare.wi.gov

341

D12-2B
(2)

[12]

JCT
M2-1

COUNTY
Y
M1-5A

ESTR

SHEET 4 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 67	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:05 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

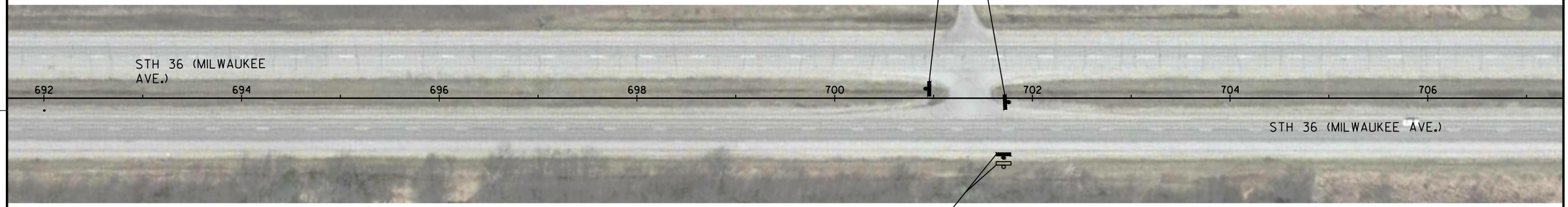
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- [XX] INDICATES YEAR OF SIGN

N



38 39
R4-7
(3)

ONE WAY
40
R6-2-L
(2M)

ONE WAY
REMOVE

2

SHEET 5 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 68	E

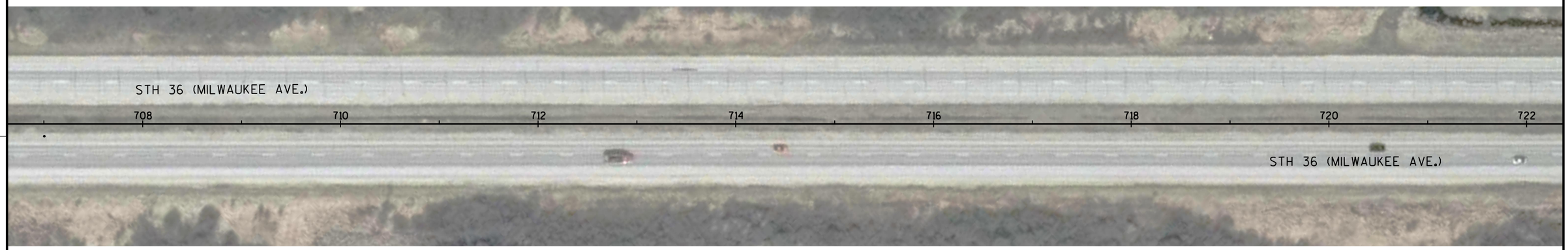
FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:05 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

NO SIGNS ON THIS SHEET



NO SIGNS ON THIS SHEET

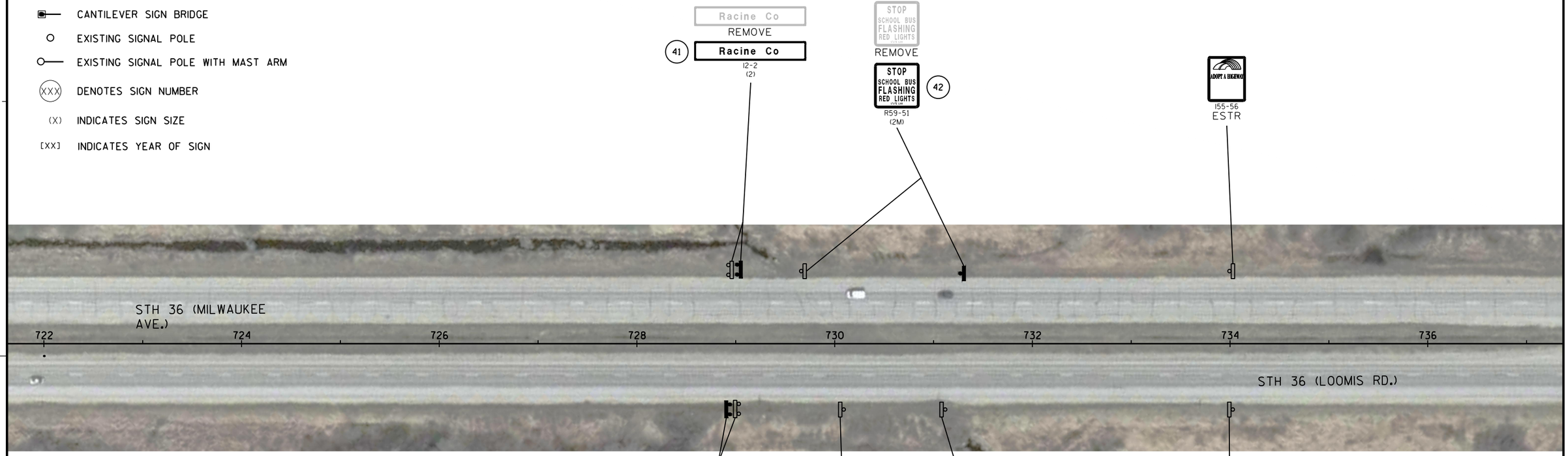
SHEET 6 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 69	E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN



Racine Co
REMOVE

41 Racine Co
I2-2
(2)

STOP
SCHOOL BUS
FLASHING
RED LIGHTS
REMOVE

STOP
SCHOOL BUS
FLASHING
RED LIGHTS
42
R59-51
(2M)

ADOPT A HIGHWAY
I55-56
ESTR

Waukesha Co
43
I2-2
(2)

Waukesha Co
REMOVE

ADOPT A HIGHWAY
I55-56
ESTR

NO ENGINE BRAKE
ESTR
VILLAGE SIGN

NO PARKING
ESTR

SHEET 7 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 70	E

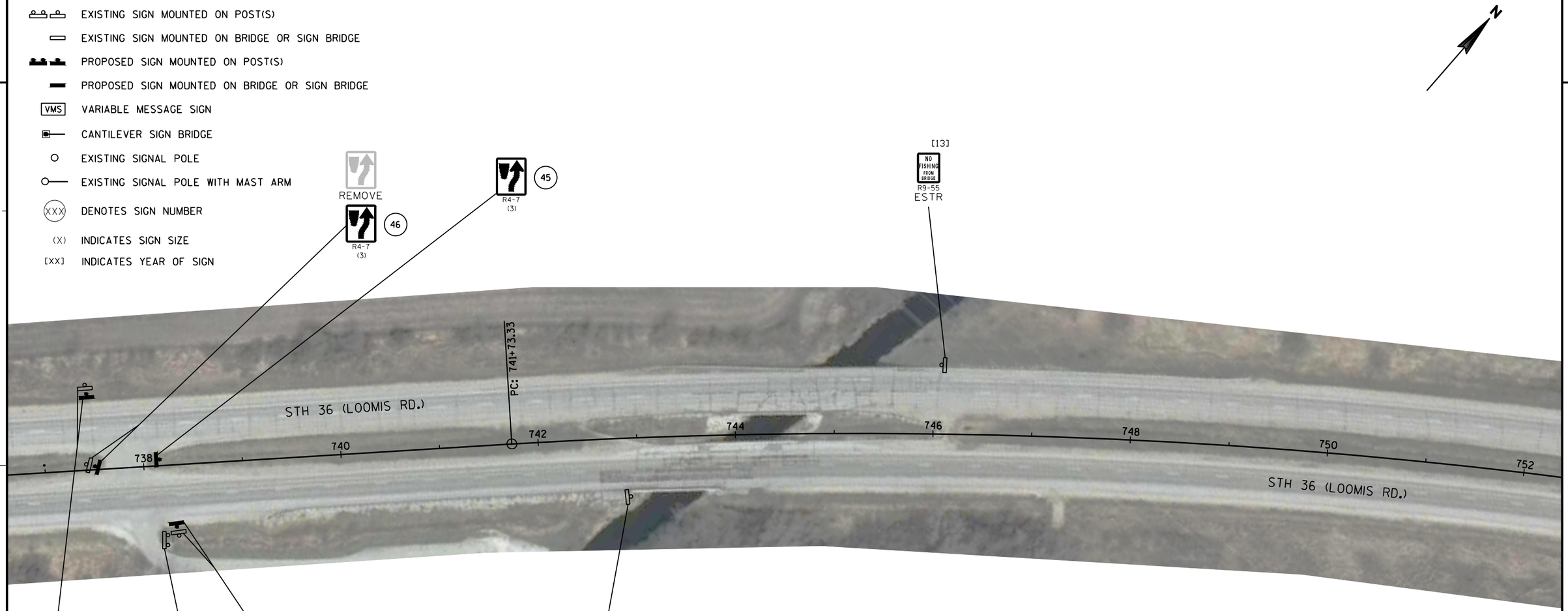
FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:06 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN



SHEET 8 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 71	E

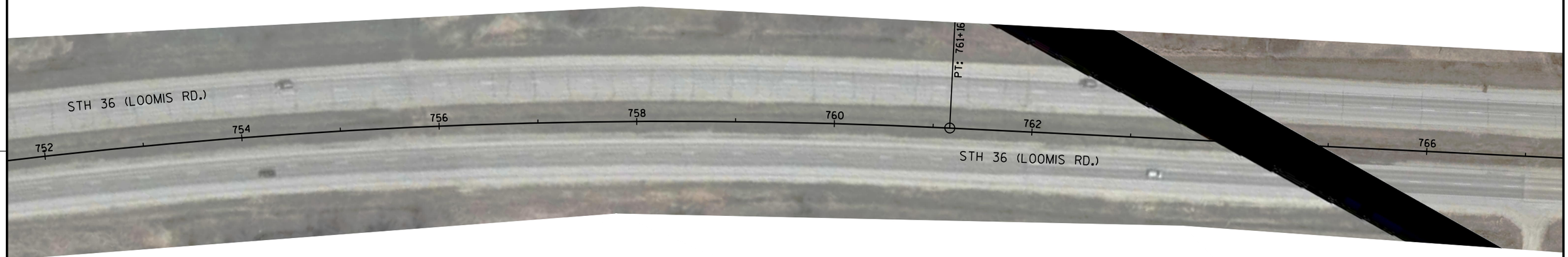
FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:06 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

NO SIGNS ON THIS SHEET



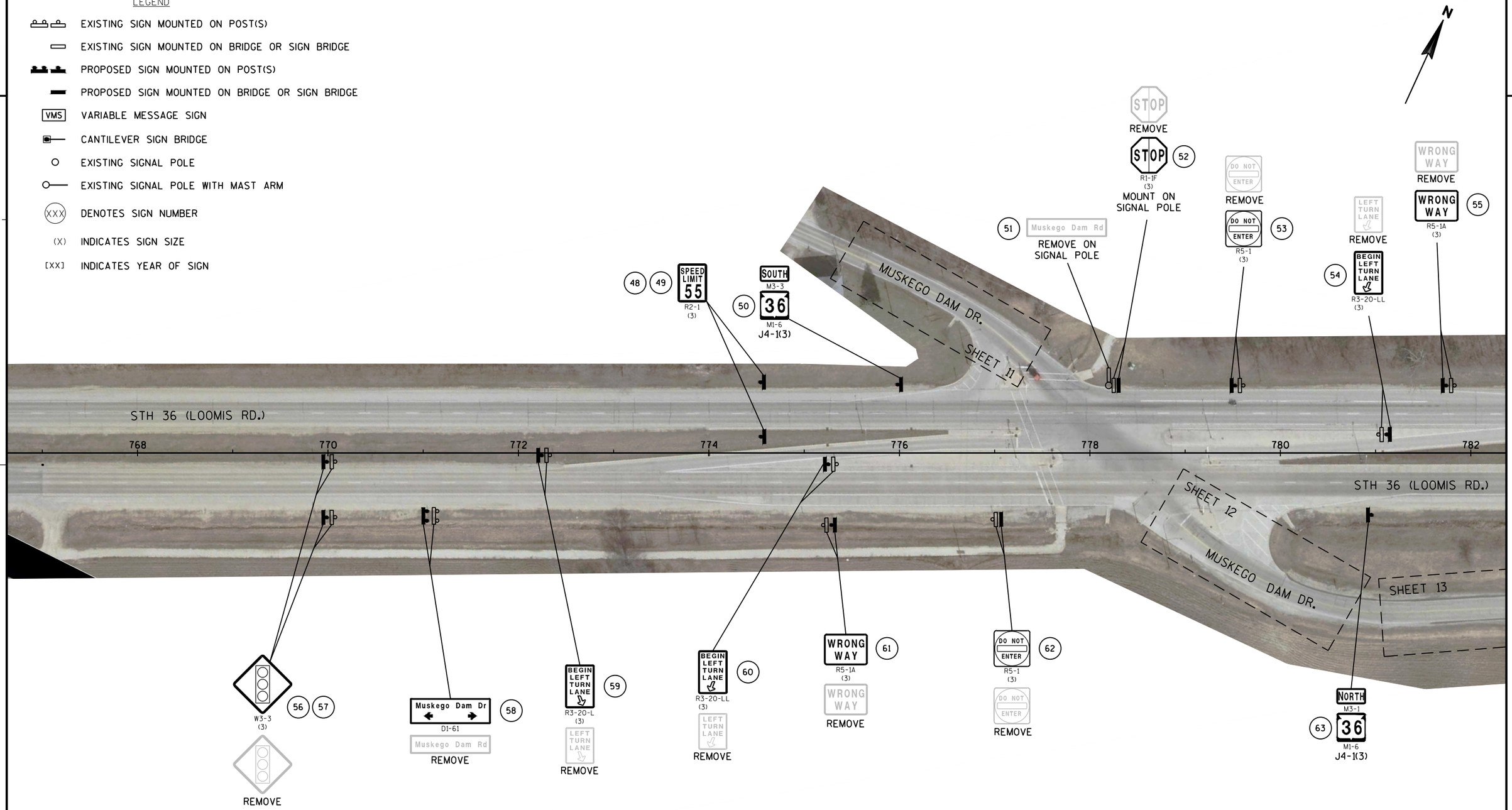
NO SIGNS ON THIS SHEET

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 72	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:06 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN



48 49 SPEED LIMIT 55 R2-1 (3)

50 SOUTH M3-3 36 M1-6 J4-1(3)

51 Muskego Dam Rd — REMOVE ON SIGNAL POLE

STOP — REMOVE

52 STOP R1-1F (3) — MOUNT ON SIGNAL POLE

DO NOT ENTER — REMOVE

53 DO NOT ENTER R5-1 (3)

LEFT TURN LANE — REMOVE

54 BEGIN LEFT TURN LANE R3-20-LL (3)

WRONG WAY — REMOVE

55 WRONG WAY R5-1A (3)

56 57 W3-3 (3) — REMOVE

58 Muskego Dam Dr D1-61 — REMOVE

59 BEGIN LEFT TURN LANE R3-20-L (3) — REMOVE

60 BEGIN LEFT TURN LANE R3-20-LL (3) — REMOVE

61 WRONG WAY R5-1A (3) — REMOVE

62 DO NOT ENTER R5-1 (3) — REMOVE

63 NORTH M3-1 36 M1-6 J4-1(3)

SHEET 10 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 73	E

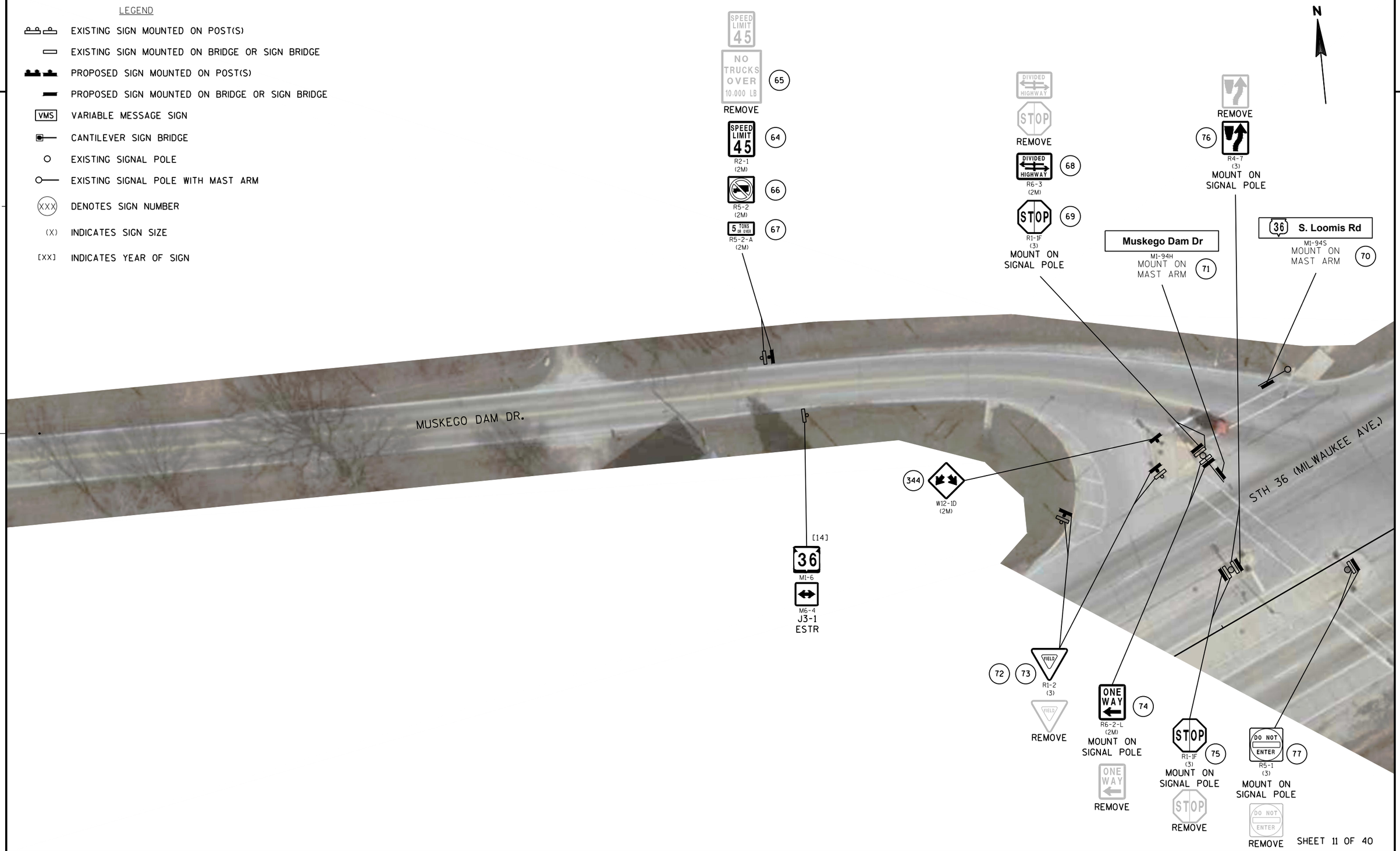
FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:06 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN



SHEET 11 OF 40

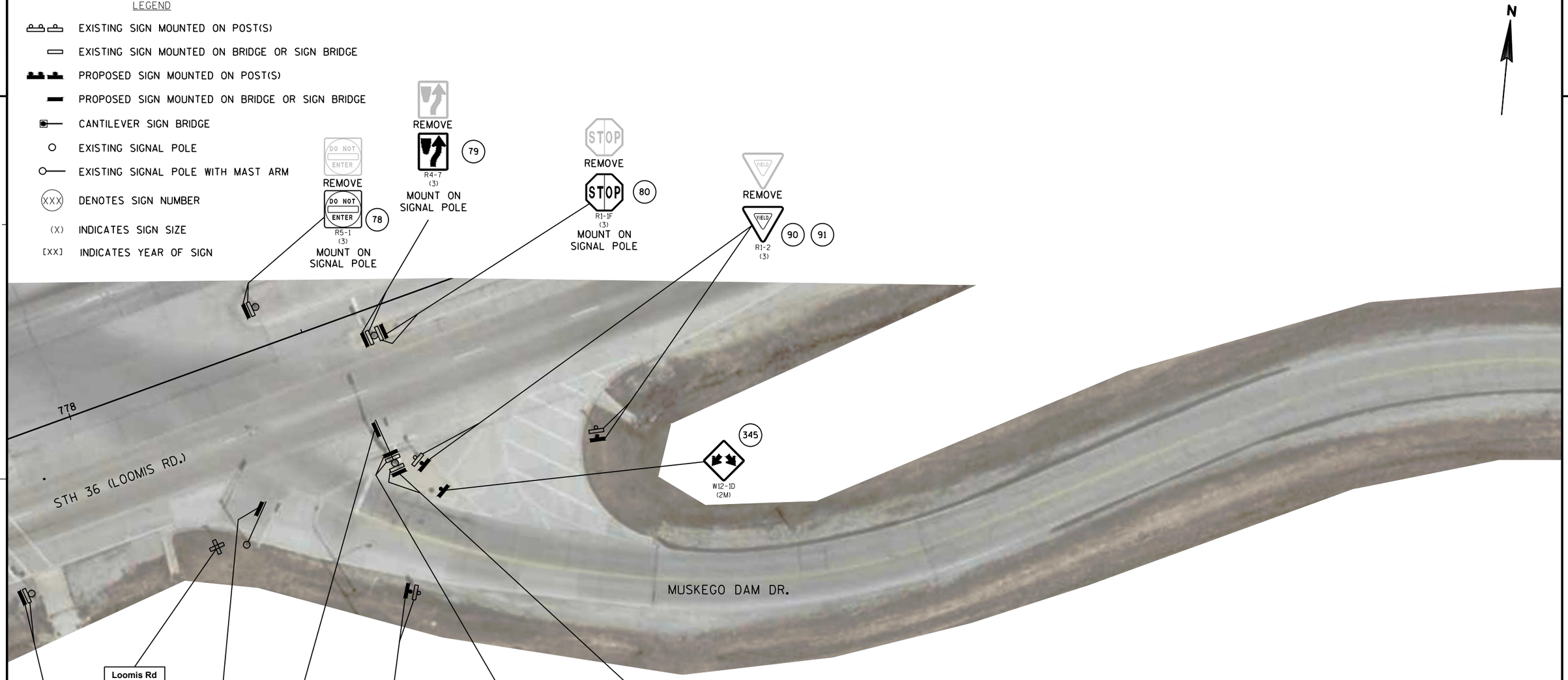
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 74	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:06 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- [XX] INDICATES YEAR OF SIGN



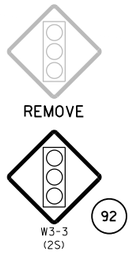
SHEET 12 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 75	E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN



N

2

SHEET 13 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 76	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:06 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIZE
- [XX] INDICATES YEAR OF SIGN

N

[14] JCT COUNTY G ESTR

SPEED LIMIT 55 R2-1 (3) 93 94

LEFT TURN LANE REMOVE

95 BEGIN LEFT TURN LANE R3-20-L (3)

Muskego Dam Rd REMOVE

Muskego Dam Dr D1-61 96

[14] COUNTY G ESTR

REMOVE W3-3 (2S) 97 98

REMOVE R4-7 (3) 105 106

ADOPT A HIGHWAY I55-56 ESTR

SPEED LIMIT 55 REMOVE

SPEED LIMIT 55 R2-1 (3) 99 100

[14] SOUTH 36 J4-1 ESTR

Loomis Rd

Loomis Dr ESTR

[14] Loomis Dr D1-1 ESTR

REMOVE R4-7 (3) 101 103

ONE WAY REMOVE

ONE WAY R6-2-L (2M) 102

DO NOT ENTER REMOVE

104 DO NOT ENTER R5-1 (3)

STH 36 (LOOMIS RD.)

782 784 786 788 790 792 794 796

STH 36 (LOOMIS RD.)

107 WRONG WAY R5-1A (3) WRONG WAY REMOVE

[14] COUNTY G ESTR

108 DO NOT ENTER R5-1 (3) DO NOT ENTER REMOVE

SPEED LIMIT 45 R2-1 ESTR

LOOMIS DR.

109 COUNTY G M1-5A COUNTY G REMOVE

JCT M2-1 36 M1-6 END M4-6 COUNTY G M1-5A 110 J1-2(2)

END COUNTY G JCT 36 REMOVE

STOP R1-1 (3) 111

DIVIDED HIGHWAY R6-3 (2M) 112

STOP DIVIDED HIGHWAY REMOVE

[14] 36 J4-1 ESTR

[14] COUNTY G ESTR

[14] NORTH 36 J4-1 ESTR

SHEET 14 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 77	E

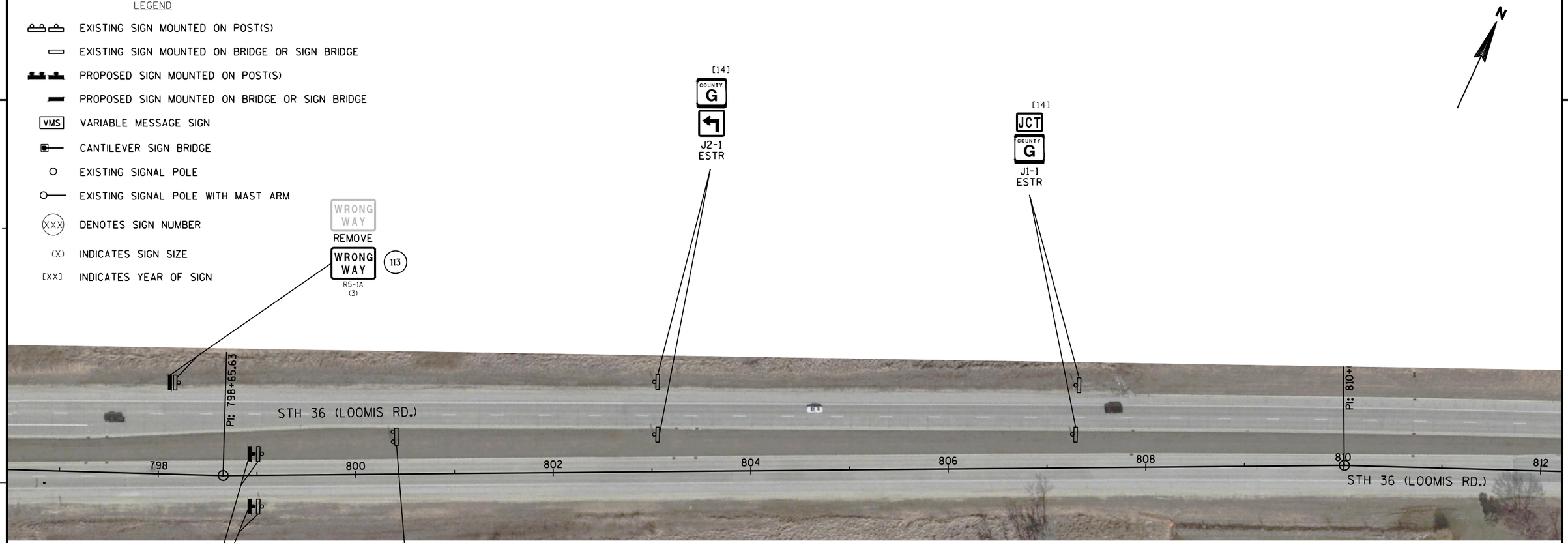
FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:06 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN



2

SHEET 15 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 78	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:06 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN

N

REMOVE

116 117

R4-7
(3)

STH 36 (LOOMIS RD.)

812 814 816 818 820 822 824 826

STH 36 (LOOMIS RD.)

[14]

Thode Dr

D1-61
ESTR

2

SHEET 16 OF 40

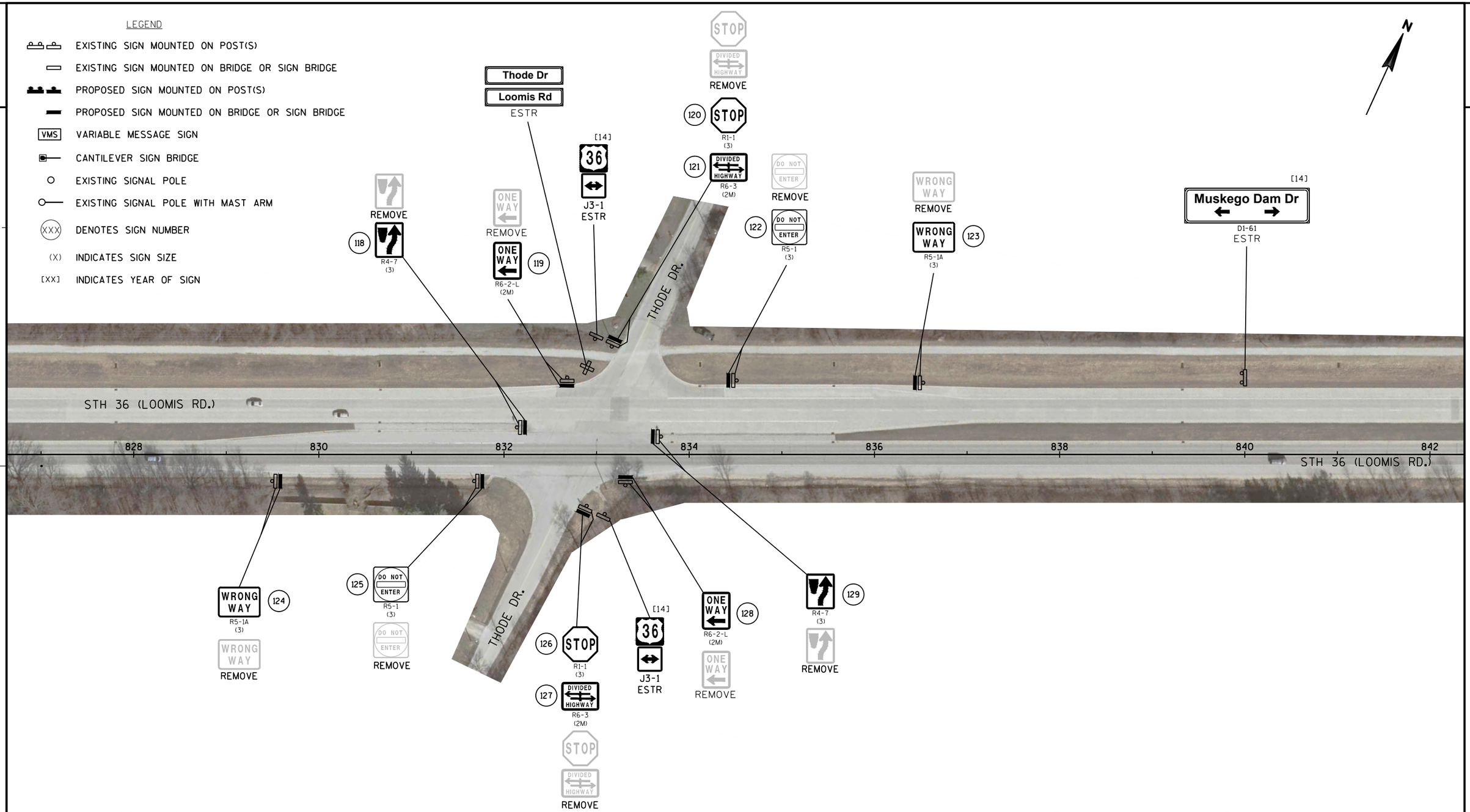
PROJECT NO:2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 79	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:06 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN



SHEET 17 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 80	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:06 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

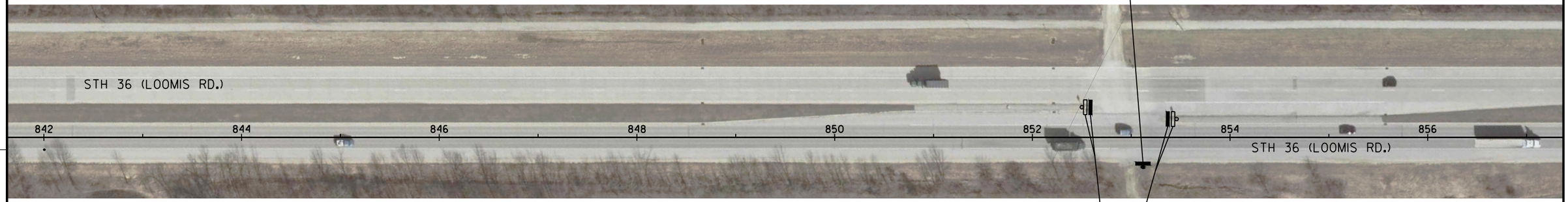
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN

N



ONE WAY
R6-2-L
(2M)
131

R4-7
(3)
130
132

REMOVE

2

SHEET 18 OF 40

PROJECT NO:2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 81	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:06 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

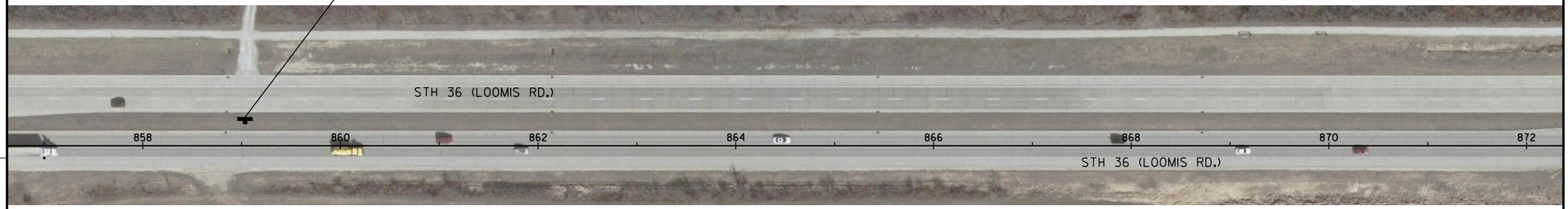
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

N

ONE WAY 133
R6-2-R
(2M)



2

SHEET 19 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 82	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:06 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN

N

STOP / DIVIDED HIGHWAY
REMOVE

134 — R4-7 (3)

135 — STOP R1-1 (3)

136 — DIVIDED HIGHWAY R6-3 (2M)

DO NOT ENTER
REMOVE

137 — DO NOT ENTER R5-1 (3)

WRONG WAY
REMOVE

138 — WRONG WAY R5-1A (3)

STH 36 (LOOMIS RD.)

872 874 876 878 880 882 884 886

STH 36 (LOOMIS RD.)

139 — WRONG WAY R5-1A (3)
WRONG WAY
REMOVE

140 — DO NOT ENTER R5-1 (3)
DO NOT ENTER
REMOVE

141 — ONE WAY R6-2-L (2M)
ONE WAY
REMOVE

142 — R4-7 (3)
REMOVE

2

SHEET 20 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 83	E

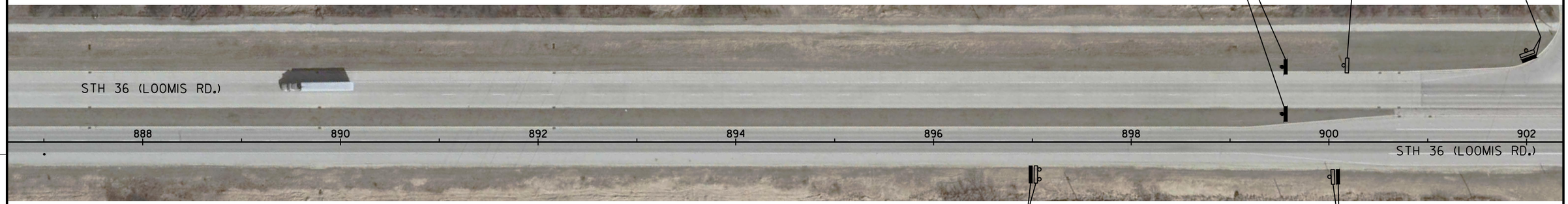
FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:07 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN



SPEED LIMIT 55
R2-1
(3)
143
144

[14]
SOUTH
36
J4-1
ESTR

ONE WAY
REMOVE

ONE WAY
R6-2-L
(2M)
145

Champions Dr
Loomis Dr
D1-2
146

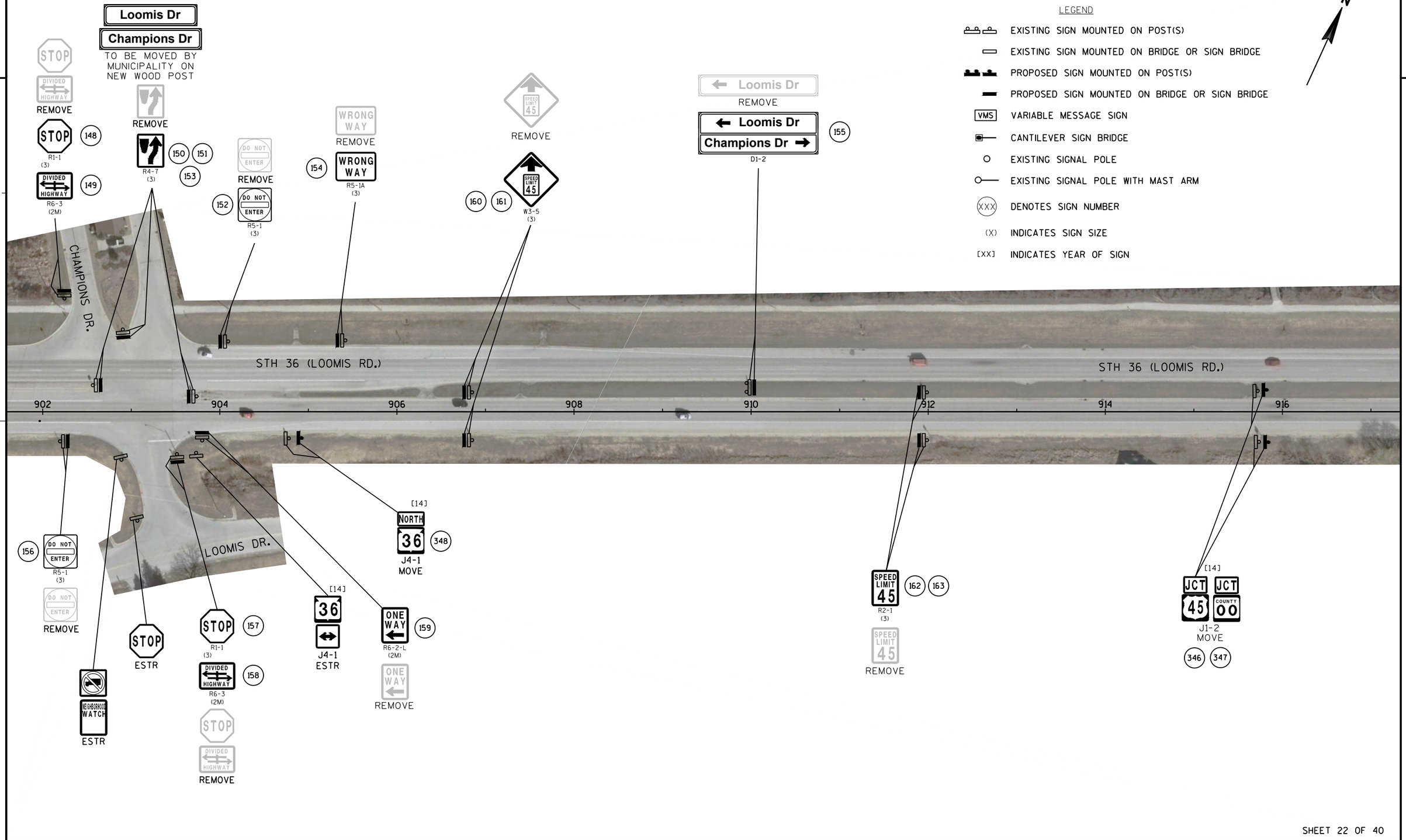
Loomis Dr
REMOVE

147
WRONG WAY
R5-1A
(3)

WRONG WAY
REMOVE

SHEET 21 OF 40

PROJECT NO:2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 84	E



SHEET 22 OF 40

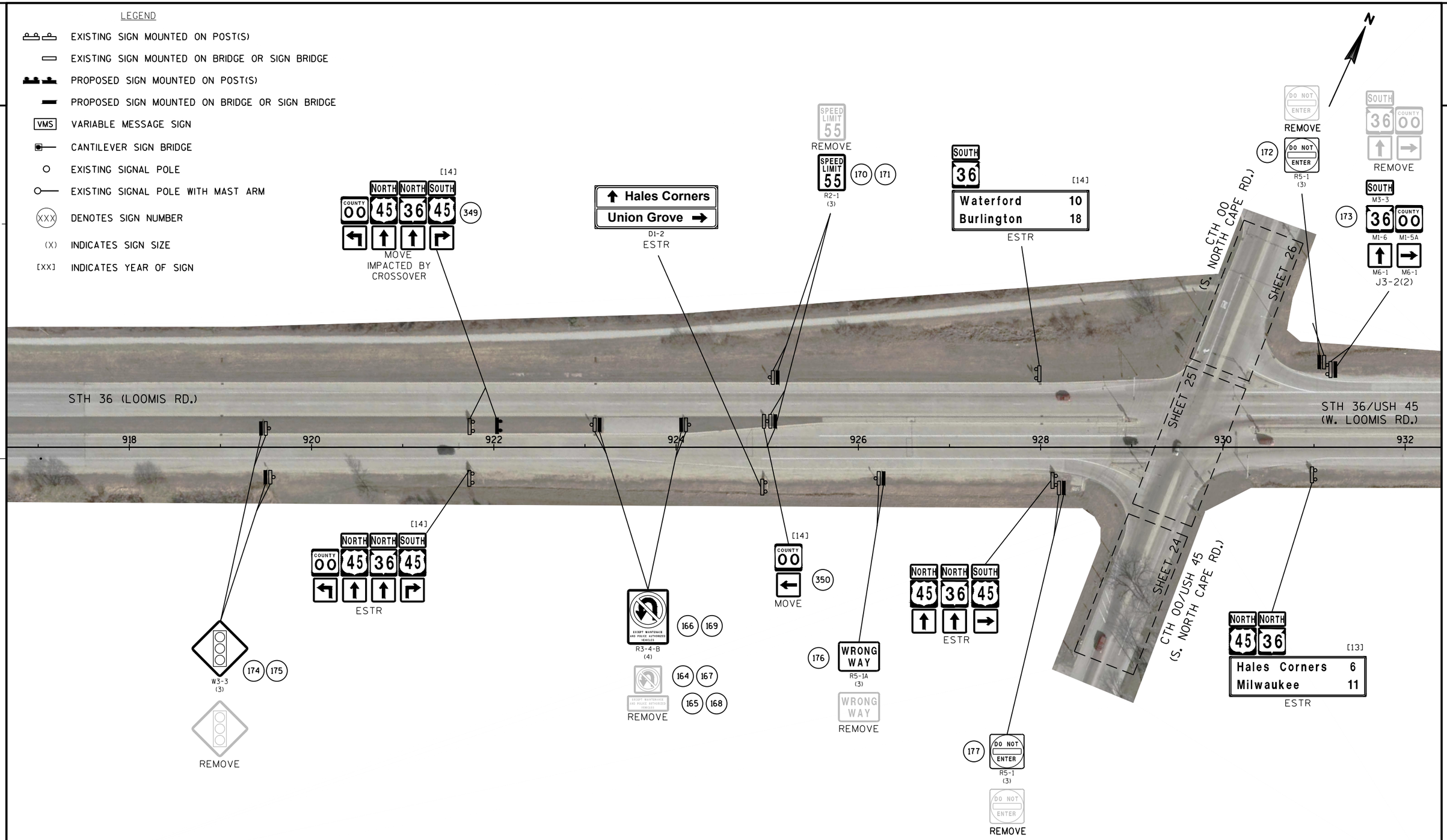
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 85	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:07 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN



SHEET 23 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 86	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:07 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN

N

REMOVE
SOUTH 45

SOUTH
M3-3
45
M1-4
178
J4-1(2)

[12]
W1-4L
ESTR

LOOMIS DR.

USH 45 (S. 124TH ST.)

USH 45 (S. 124TH ST.)

NORTH M3-1 | TO M4-5 | SOUTH M3-3
45 M1-4 | COUNTY OO M1-5A | 45 M1-4
M6-1 | M6-1 | M6-1
179
J3-3(2)

REMOVE
TO COUNTY OO | NORTH 45 | SOUTH 45

STOP
R1-1
(2M)
180

TRAFFIC ON 45 DOES NOT STOP
W4-4C
(2M)
181

REMOVE
STOP
TRAFFIC ON 45 DOES NOT STOP

2

SHEET 24 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 87	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:07 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE OR UTILITY POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN

N

LOOMIS DR.

USH US (S. 124TH ST.)

USH US (S. 124TH ST.)

JCT 36 JCT COUNTY OO
REMOVE

184
JCT M2-1 36 M1-6 JCT M2-1 COUNTY OO M1-5A
J1-2(2)

STOP 182
R1-1
(2M)

TRAFFIC ON 45 DOES NOT STOP 183
W4-4C
(2M)
MOVE

SPEED LIMIT 40 185
R2-1
(2M)

SPEED LIMIT 40
REMOVE

[12]
W3-3
ESTR

SPEED LIMIT 40 186
R2-1
(2M)
MOUNT ON NEW WOOD POST

SPEED LIMIT 40
REMOVE FROM UTILITY POLE

[13]
RIGHT LANE MUST TURN RIGHT
R3-7-R
ESTR

SHEET 25 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 88 E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:07 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

N

STOP
REMOVE
189 R1-1F (3)
MOUNT ON SIGNAL POLE

REMOVE
191 R4-7 (3)

STOP
REMOVE
190 R1-1F (3)
MOUNT ON SIGNAL POLE

45 S. North Cape Rd
00 S. North Cape Rd
M1-94S(MOD)
MOUNT ON MAST ARM
194

ONE WAY
REMOVE
ONE WAY
192 R6-2-L (2M)

STOP
REMOVE
193 R1-1F (3)
MOUNT ON SIGNAL POLE

[12]
NORTH 45 | NORTH 36 | SOUTH 45 | END COUNTY 00
ESTR

36 Loomis Rd
45 36 Loomis Rd
M1-94S(MOD)
MOUNT ON MAST ARM
197

[13]
RIGHT LANE MUST TURN RIGHT
R3-7-R
ESTR

STOP
R1-1F
ESTR

R4-7
ESTR

Champions Dr
North Cape Dr
ESTR

STOP
REMOVE
188 R1-1 (3)

45 36 Loomis Rd
36 Loomis Rd
M1-94S(MOD)
MOUNT ON MAST ARM
195

STH 36/USH 45 (LOOMIS RD.)
EP: 19+52.38

351 352
W12-1D (2M)
2' HEIGHT

18+00
19+00
19+52
930

USH 45 (S. 124TH ST.)

CTH OO (S. NORTH CAPE RD.)

STOP
R1-1 (3)
203
STOP
REMOVE

205 COUNTY 00 M1-5A (2)
206 HELP FIGHT CRIME
MOVE
COUNTY 00
REMOVE

SPEED LIMIT 40
204 R2-1 (2M)
SPEED LIMIT 40
REMOVE

187 SOUTH M3-3 | 45 M1-4
J4-1(2)
SOUTH 45
REMOVE

[14]
Hales Corners
Milwaukee
ESTR

198
SOUTH M3-3 | COUNTY 00 M1-5A | 36 M1-6 | NORTH M3-1 | 45 M1-4 | NORTH M3-1 | 36 M1-6
M6-1 M6-1 M6-1 M6-1
J3-4(2)
SOUTH 36 | COUNTY 00 | NORTH 36 | NORTH 45
REMOVE

199 STOP R1-1F (3)
MOUNT ON SIGNAL POLE
STOP
REMOVE

200 ONE WAY R6-2-L (2M)
ONE WAY
REMOVE

00 S. North Cape Rd
45 S. North Cape Rd
M1-94S(MOD)
MOUNT ON MAST ARM
196

202 STOP R1-1F (3)
MOUNT ON SIGNAL POLE
STOP
REMOVE

201 R4-7 (3)
REMOVE

STOP
R1-1F
ESTR

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE OR UTILITY POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN

SHEET 26 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 89	E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN

N

REMOVE
SOUTH 45
M3-3
208
45
M1-4
M6-1
J2-1(2)

ESTR
NO ENGINE BRAKING
VILLAGE SIGN BY PERMIT

SOUTH 45 SOUTH 36 COUNTY OO [13]
ESTR

REMOVE
210
W3-3
(3)

Waukesha Co [14]
I2-2
Muskego
POPULATION 24,207 [14]
I2-3
ESTR

JCT 45 JCT COUNTY OO
REMOVE
JCT 45 JCT COUNTY OO
M2-1 M1-4 M2-1 M1-5A
211 212
J1-2(3)

NO PARKING ANY TIME
ESTR

PC: 933+93
PT: 940+07.2
STH 36 (W. LOOMIS RD.)/USH 45
STH 36 (W. LOOMIS RD.)/USH 45
932 934 936 938 940 942 944 946

WRONG WAY
R5-1A
(3)
207
WRONG WAY
REMOVE

ADOPT A HIGHWAY
ESTR

SPEED LIMIT 55
R2-1
(3)
213 214
SPEED LIMIT 55
REMOVE

[12]
EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES
ESTR

209
Waterford
Union Grove
D1-2
Waterford
Union Grove
REMOVE

RIDESHARE INFORMATION
www.rideshare.wi.gov
D12-2B
(2)
342

W3-3
(3)
215

Milwaukee Co [12]
I2-2
Franklin
POPULATION 35,451 [13]
I2-3
ESTR

NO PARKING ANY TIME
ESTR

2

SHEET 27 OF 40

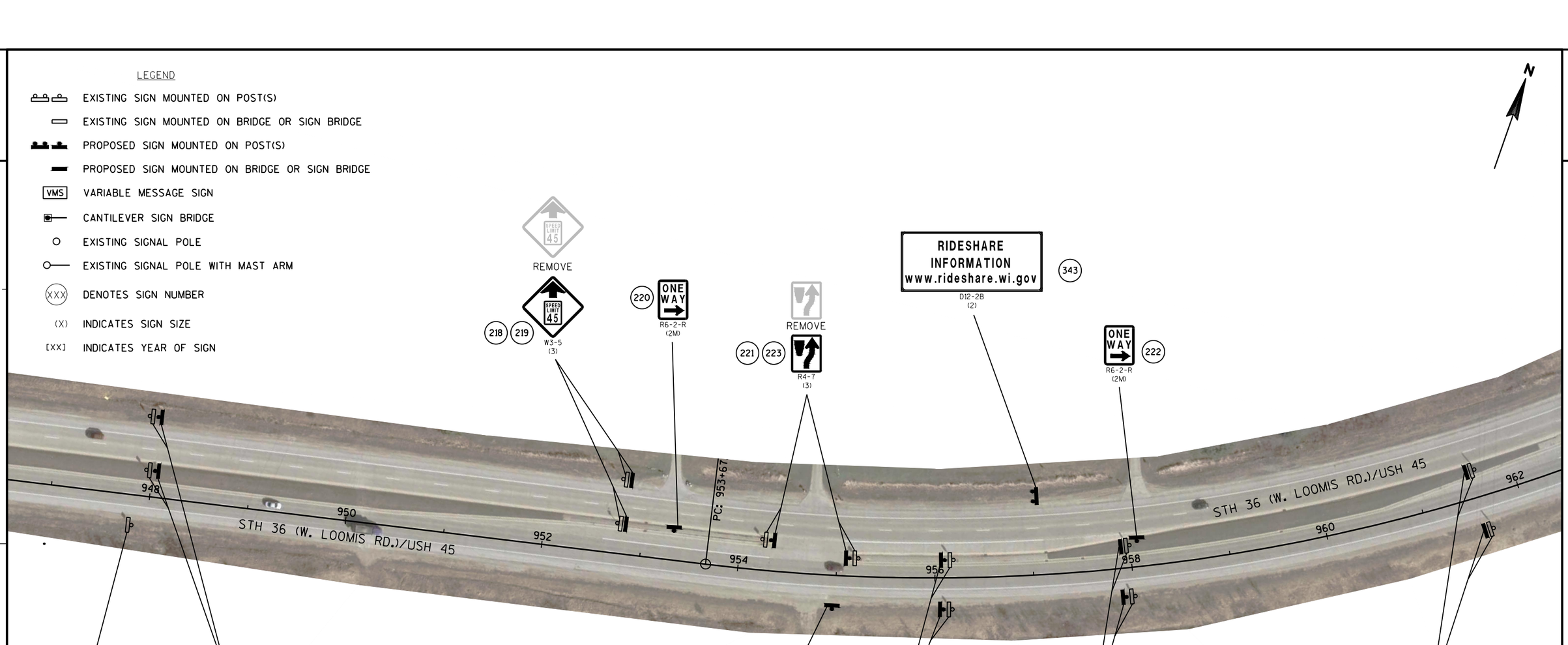
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 90	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:07 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN



REMOVE
SPEED LIMIT 45
218 219
W3-5
(3)

220
ONE WAY
R6-2-R
(2M)

REMOVE
221 223
R4-7
(3)

RIDESHARE INFORMATION www.rideshare.wi.gov
343
D12-2B
(2)

ONE WAY
222
R6-2-R
(2M)

NO ENGINE BRAKING EXCEPT IN EMERGENCY
R10-64
ESTR
VILLAGE SIGN
BY PERMIT

SPEED LIMIT 45
216 217
R2-1
(3)

REMOVE
SPEED LIMIT 45

224
ONE WAY
R6-2-L
(2M)

JCT
M2-1
COUNTY H
M1-5A
225 226
J1-1(3)

REMOVE
JCT
COUNTY H

227 228
W3-3
(3)

REMOVE

EAST
M3-2
COUNTY H
M1-5A
229 230
M5-1R
J2-1(3)

REMOVE
EAST
COUNTY H

SHEET 28 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:07 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

N

2

SPEED LIMIT 55 — REMOVE
231 232
SPEED LIMIT 55 — R2-1 (3)

SOUTH 45 | SOUTH 36 — REMOVE
236
SOUTH M3-3 45 M1-4 | SOUTH M3-3 36 M1-6 — J4-2(3)

ONE WAY — R6-2-L (2M)
234

Pt. 96+55

STH 36 (W. LOOMIS RD.)/USH 45

962 964 966 968 970 972 974 976

W. RYAN RD.

SHEET 30

DO NOT ENTER — REMOVE
237
DO NOT ENTER — R5-1 (3)

WRONG WAY — REMOVE
238
WRONG WAY — R5-1A (3)

EAST M3-2 / COUNTY H M1-5A
239 240
M6-1 — J2-1(3)

Ryan Rd 9500 SOUTH — REMOVE
Ryan Rd 9500 SOUTH NEXT SIGNAL
241
D1-65(MOD)

SHEET 31

W. RYAN RD.

SHEET 32

Ryan Rd 9500 SOUTH NEXT SIGNAL
242
D1-65(MOD)

Ryan Rd 9500 SOUTH — REMOVE

233 235
R4-7 (3)
REMOVE

243
WRONG WAY — R5-1A (3)
WRONG WAY — REMOVE

EAST M3-2 / COUNTY H M1-5A
244
M6-1 — J2-1(3)

WEIGHT LIMIT 3 TONS
245
R12-1 (2M) — MOVE
EAST / COUNTY H — REMOVE

246
WEIGHT LIMIT 3 TONS — REMOVE

247
DO NOT ENTER — R5-1 (3)
DO NOT ENTER — REMOVE

248
NORTH M3-1 45 M1-4 | NORTH M3-1 36 M1-6 — J4-2(3)
NORTH 45 | NORTH 36 — REMOVE

249 250
SPEED LIMIT 55 — R2-1 (3)
SPEED LIMIT 55 — REMOVE

251
R4-7 (3)
REMOVE

SHEET 29 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 92	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:07 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

N

2

252
JCT M2-1 JCT M2-1
45 M1-4 36 M1-6
J1-2(2M)

JCT JCT
45 36
REMOVE

253
W3-3
(2M)

REMOVE

SHEET 30 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 93	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:07 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- [XX] INDICATES YEAR OF SIGN

N

W. RYAN RD.

STH 36/USH 45 (W. LOOMIS RD.)

970

W. RYAN RD.

STH 36/USH 45 (W. LOOMIS RD.)

[07] STOP R1-1 ESTR

W Ryan Rd
S 116th St
ESTR

[06] W1-7 ESTR

SPEED LIMIT 35 R2-1 ESTR

NORTH M3-1 / SOUTH M3-3
45 M1-4 / 45 M1-4
36 M1-6 / 36 M1-6
M6-1 / M6-1
JV3-2(2) ESTR

WEIGHT LIMIT 3 TONS R12-1 ESTR CITY SIGN

45 36 Loomis Rd M1-94S MOUNT ON MAST ARM (262)

W Ryan Rd (254)
W Loomis Rd (255)
REMOVE

STOP HERE ON RED R10-6 (2M) (266)
STOP R1-1F (3) (267)
MOUNT ON SIGNAL POLE
STOP HERE ON RED
STOP
REMOVE

DIVIDED HIGHWAY R6-3 (2M) (268)
DIVIDED HIGHWAY
REMOVE

ONE WAY R6-2-L (2M) (269)
ONE WAY
REMOVE

H W Ryan Rd
W Ryan Rd
M1-94S(MOD) MOUNT ON MAST ARM (264)

STOP R1-1F (3) (256)
MOUNT ON SIGNAL POLE

REMOVE
R4-7 (2M) (257)
MOUNT ON SIGNAL POLE

STOP R1-1F (3) (270)
MOUNT ON SIGNAL POLE
STOP
REMOVE

R4-7 (2M) (271)
MOUNT ON SIGNAL POLE
REMOVE

STOP R1-1F (3) (272)
MOUNT ON SIGNAL POLE
STOP
REMOVE

REMOVE
ONE WAY R6-2-L (2M) (259)

STOP R1-1F (3) (258)
MOUNT ON SIGNAL POLE

REMOVE
DIVIDED HIGHWAY R6-3 (2M) (260)
STOP R1-1F (3) (261)
MOUNT ON SIGNAL POLE

W Ryan Rd (273)
W Loomis Rd (274)
REMOVE

45 36 Loomis Rd M1-94S MOUNT ON MAST ARM (265)

H W Ryan Rd
W Ryan Rd
M1-94S(MOD) MOUNT ON MAST ARM (263)

REMOVE
YIELD R1-2 (2M) (276)

[06] WEIGHT LIMIT 3 TONS R12-1 ESTR CITY SIGN

W12-1D (2M) (275)
2' MOUNT HEIGHT
REMOVE

SHEET 31 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 94	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 2/3/2016 2:01 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN

SOUTH NORTH
45 45
36 36
REMOVE

SOUTH NORTH
M3-3 M3-1
45 45
M1-4 M1-4
36 36
M1-6 M1-6
277
M6-1 M6-1
JV3-1(2M)

JCT JCT
45 36
REMOVE

JCT JCT
M2-1 M2-1
45 36
278
M1-4 M1-6
J4-2(2M)

[06]
W3-3
ESTR

[06]
SPEED LIMIT 40
R2-1
ESTR

[06]
STOP
SCHOOL BUS FLASHING RED LIGHTS
R59-51
ESTR

[11]
ROAD NARROWS
W5-1
ESTR

N

2

SHEET 32 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 95	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:07 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:40_XREF

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN

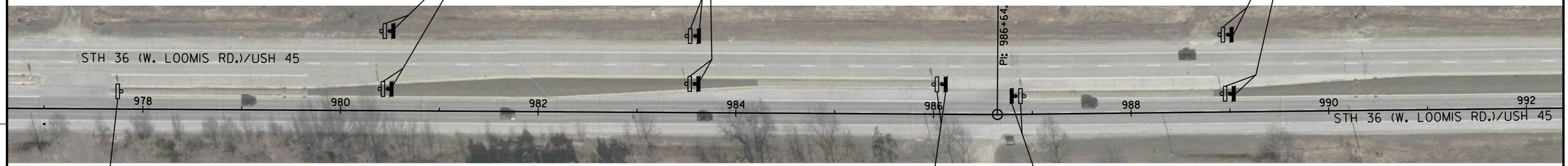
N

2

REMOVE
EAST
M3-2
COUNTY H
M1-5A
279 280
M5-1L
J2-1(3)

REMOVE
W3-3
(3)
281 282

REMOVE
JCT
M2-1
COUNTY H
M1-5A
283 284
J4-1(3)



[12]
R4-7
ESTR

R4-7
(3)
285
REMOVE

R4-7
(3)
286
REMOVE

SHEET 33 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 96	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:08 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

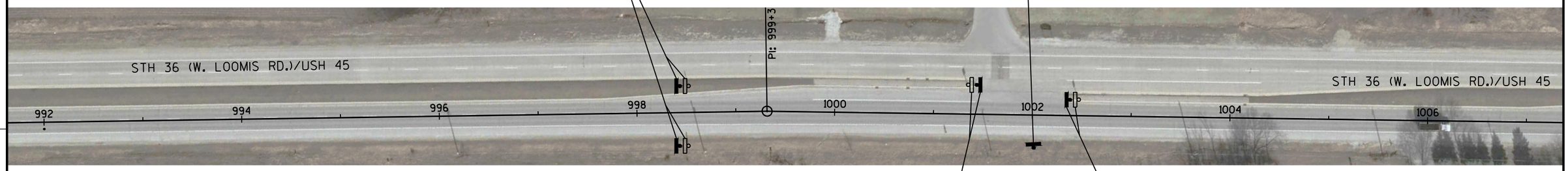
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

N

2



SHEET 34 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 97	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:08 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

SPEED LIMIT 55 — REMOVE

SPEED LIMIT 55 — 292 293 — R2-1 (3)

ONE WAY — 295 — R6-2-L (2M)

ONE WAY — 296 — R6-2-L (2M)

REMOVE

R4-7 (3) — 298

SPEED LIMIT 45 — 299 — R2-1 (3)

SPEED LIMIT 45 — REMOVE

ONE WAY — 294 — R6-2-R (2M)

SPEED LIMIT 45 — 300 — R2-1 (3)

SPEED LIMIT 45 — REMOVE

R4-7 (3) — 301

REMOVE

R4-7 (3) — 302

REMOVE

Falcon Lane — 303 — D1-1

Falcon Lane — REMOVE

R4-7 (3) — 297

REMOVE

ONE WAY — 304 — R6-2-L (2M)

SHEET 35 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 98	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:08 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN

N

STH 36 (W. LOOMIS RD.)/USH 45

1022 1024 1026 1028 1030 1032 1034 1036

PT: 1026+12.89

ONE WAY
R6-2-L
(2M)
306

REMOVE
R4-7
(3)
307

Falcon Lane
REMOVE
Falcon Lane
D1-1
308

SPEED LIMIT 45
REMOVE
SPEED LIMIT 45
R2-1
(3)
309 310

REMOVE
311
R4-7
(3)

DO NOT ENTER
REMOVE
312
DO NOT ENTER
R5-1
(3)

305
R4-7
(3)
REMOVE

[13]
STOP
R1-1
ESTR

R4-7
ESTR

NO OUTLET
W14-2
ESTR

SPEED LIMIT 45
313 314
R2-1
(3)
SPEED LIMIT 45
REMOVE

[11]
JCT
M2-1
100
M1-4
ESTR

315
DO NOT ENTER
R5-1
(3)
DO NOT ENTER
REMOVE

[14]
R4-7
ESTR

SHEET 36 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 99	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:08 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN

STH 36 (W. LOOMIS RD.)/USH 45

1038 1040 1042 1044 1046

PC: 1042+

317 STOP R1-1 (3) REMOVE

316 ONE WAY R6-2-L (2M)

318 R4-7 (2M) REMOVE

NORTH 45 M3-1 M1-4 M5-1L
NORTH 100 M3-1 M1-6 M5-1L
SOUTH 100 M3-3 M1-6 M5-1R
J2-3(3)
REMOVE
327 328

SPEED LIMIT 45 R2-1 (3) REMOVE
319 320

[10] ONE WAY R6-2-R ESTR

155-56 ESTR

[10] SOUTH 45 M3-3 M1-4
SOUTH 36 M3-3 M1-6
ESTR

LEFT TURN LANE ESTR

323 DO NOT ENTER R5-1 (3) REMOVE

324 326 R4-7 (3) REMOVE

325 ONE WAY R6-2-L (2M)

321 322 W3-3 (2M) REMOVE

[11] RIGHT LANE MUST TURN RIGHT R3-7-R ESTR

[10] ONE WAY R6-2-R ESTR

[10] NORTH 45 M3-1 M1-4
NORTH 100 M3-1 M1-6
M6-1 M6-1
ESTR

[10] SOUTH 100 M3-3 M1-6 M6-1 ESTR

[12] HWYS 36-45-100 TURN RIGHT ESTR

[10] RIGHT LANE MUST TURN RIGHT R3-7-R ESTR

SHEET 39

USH 45/STH 100

SHEET 40

STH 100/ W. ST. MARTINS RD.)

SHEET 37 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 100	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:46 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN

36 Loomis Rd
45 36 Loomis Rd

333 M1-94S(MOD) MOUNT ON MAST ARM

REMOVE
W4-2R (2M) 329 330

[10] SOUTH 45 / 36 / STOP R1-1F ESTR ON SIGNAL POLE

[10] SPEED LIMIT 45 R2-1 ESTR

[10] R4-7 ESTR ON SIGNAL POLE

STOP R1-1F ESTR

331 R1-1F (3) MOUNT ON SIGNAL POLE

[10] SOUTH 100 ESTR

[10] STOP R1-1F ESTR

100 St. Martins Rd
45 100 St. Martins Rd

334 M1-94S(MOD) MOUNT ON MAST ARM

[10] STOP R1-1F ESTR ON SIGNAL POLE

[14] DO NOT ENTER R5-1 ESTR ON SIGNAL POLE

[10] YIELD R1-2 ESTR

[10] SOUTH 45 / 36 ESTR

REMOVE
W12-1D (2M) 332 2' MOUNT HEIGHT

[10] DO NOT ENTER R5-1 ESTR

[10] R4-7 ESTR

[10] STOP R1-1F ESTR ON SIGNAL POLE

[10] DO NOT ENTER R5-1 ESTR ON SIGNAL POLE

PI: 1051+19.97

STH 100 (W. ST. MARTINS RD.)

[12] Burlington / Loomis Rd NEXT SIGNAL ESTR

[10] RIGHT TURN LANE ESTR

[10] ONE WAY R6-2-R ESTR

[10] LEFT TURN LANE ESTR

[10] NO PARKING R7-1-D ESTR

[10] SOUTH 45 / NORTH 45 / NORTH 100 ESTR

[10] NORTH 45 / 100 / 36 ESTR

[10] STOP R1-1F ESTR ON SIGNAL POLE

[10] NORTH 36 ESTR ON UPRIGHT

DO NOT ENTER R5-1 ESTR ON SIGNAL POLE

45 100 St. Martins Rd
100 St. Martins Rd

335 M1-94S(MOD) MOUNT ON MAST ARM

R4-7 ESTR ON SIGNAL POLE

STH 36 (W. LOOMIS RD.)

[10] SOUTH 100 / STOP R1-1F ESTR ON SIGNAL POLE

DO NOT ENTER R5-1 ESTR ON SIGNAL POLE

[10] STOP R1-1F ESTR ON SIGNAL POLE

[11] DO NOT ENTER R5-1 ESTR ON SIGNAL POLE

[10] SOUTH 45 ESTR

[10] NORTH 45 / 100 ESTR

[10] SPEED LIMIT 45 R2-1 ESTR

[10] NORTH 36 / SOUTH 100 / STOP R1-1F ESTR ON SIGNAL POLE

45 36 Loomis Rd
36 Loomis Rd

336 M1-94S(MOD) MOUNT ON MAST ARM

CANOPY

SHEET 38 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 2/3/2016 2:01 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- [XX] — INDICATES YEAR OF SIGN

N

[10] NORTH 36 — ESTR

[10] RIGHT LANE MUST TURN RIGHT — R3-7-R — ESTR

[10] LEFT TURN LANE — ESTR

[10] SOUTH SOUTH 45 36 — ESTR

[10] Loomis Rd — ESTR

[10] JCT 36 — ESTR

W3-3 (2M) — 338 339

[10] Burlington — ESTR

[10] ONE WAY — R6-2-R — ESTR

STH 100 (W. ST MARTINS RD.)

W. ST MARTINS RD.

[10] ONE WAY — R6-2-R — ESTR

[10] LEFT TURN LANE — ESTR

[10] St Martens Rd — ESTR

[10] JCT — M2-1

[10] COUNTY MM — M1-5A — ESTR

RIGHT LANE ENDS — W4-2 (2M) — 337 — ESTR

RIGHT LANE ENDS — REMOVE

[10] COUNTY MM — ESTR

SHEET 39 OF 40

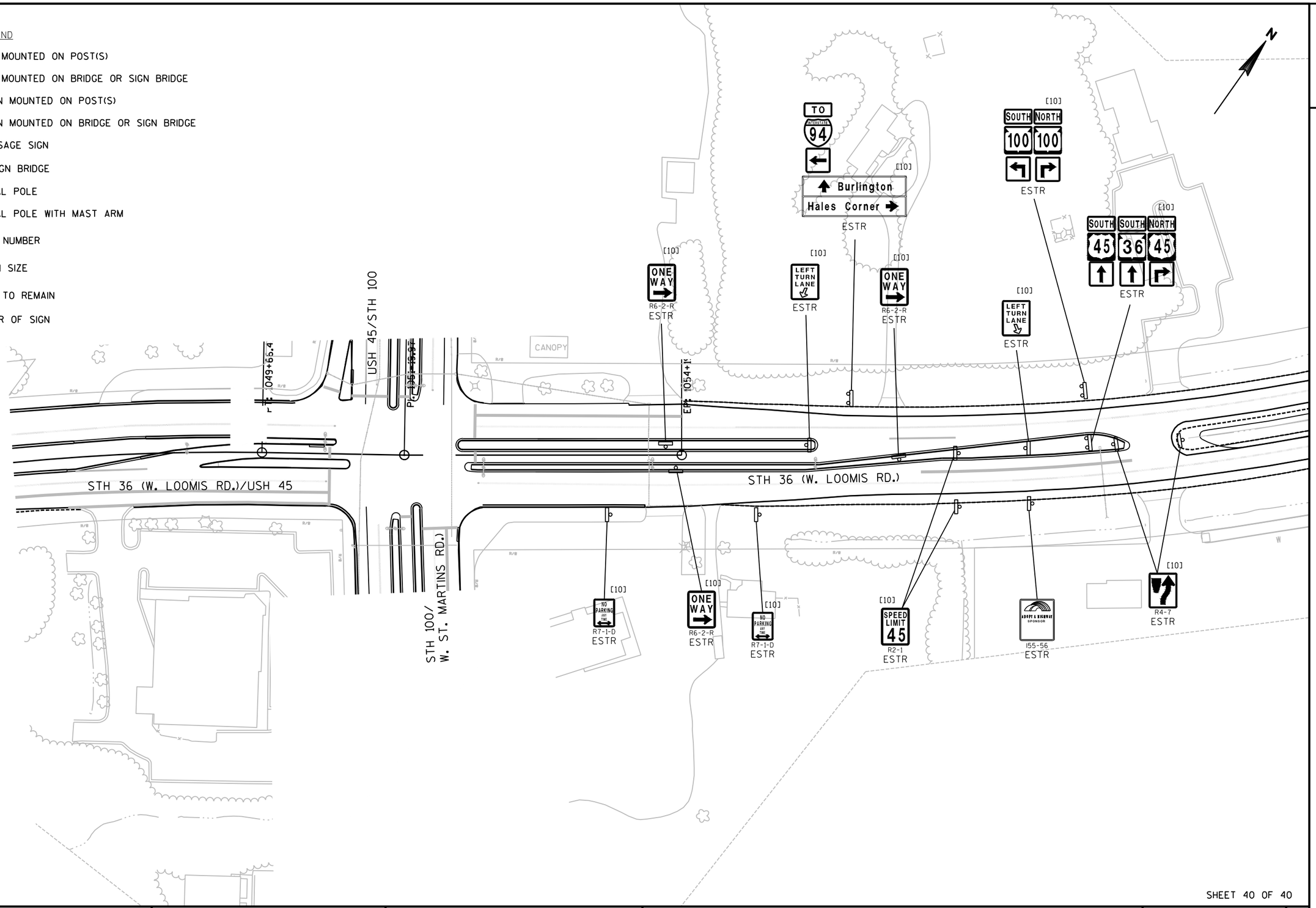
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 102 E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:08 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- CANTILEVER SIGN BRIDGE
- EXISTING SIGNAL POLE
- EXISTING SIGNAL POLE WITH MAST ARM
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN
- [XX] — INDICATES YEAR OF SIGN



SHEET 40 OF 40

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 103	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIGN\023201_PS.DWG PLOT DATE : 7/28/2015 7:08 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING LUMINAIRES UTILITY HPS TO BE REMOVED AND REPLACED WITH LUMINAIRES UTILITY LED-C

N

W. LOOMIS ROAD

658+40.49, 124.08' LT

658+73.58, 10.80' LT

659+38.07, 83.12' LT

660+16.12, 2.18' LT

659+59.99, 77.25' RT

660+12.07, 183.02' RT

STH 36 (MILWAUKEE AVENUE)

654 656 658 660 662 664 666

STH 36 (MILWAUKEE AVENUE)

W. LOOMIS ROAD

WELL

TILE

OH HO FO

SHEET 1 OF 5

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RACINE	LIGHTING PLAN	SHEET 104	E

FILE NAME : N:\PDS\C3D\CAD\22401330\LTG\023501_LP.DWG PLOT DATE : 4/22/2015 10:35 AM PLOT BY : LAROSA, PHILIP P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING LUMINAIRES UTILITY HPS TO BE REMOVED AND REPLACED WITH LUMINAIRES UTILITY LED-C

N

MUSKEGO DAM DRIVE

777+57.18, 111.77' LT

777+23.58, 5.57' RT

779+27.66, 15.07' LT

STH 36 (LOOMIS ROAD)

772 774 776 778 780 782 784 786

STH 36 (LOOMIS ROAD)

780+84.28, 8.08' RT

775+62.14, 19.50' LT

778+85.12, 106.82' RT

MUSKEGO DAM DRIVE

SHEET 2 OF 5

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RACINE	LIGHTING PLAN	SHEET 105	E

FILE NAME : N:\PDS\C3D\CAD\22401330\LTG\023501_LP.DWG PLOT DATE : 4/22/2015 10:35 AM PLOT BY : LAROSA, PHILIP P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING LUMINAIRES UTILITY HPS TO BE REMOVED AND REPLACED WITH LUMINAIRES UTILITY LED-C

N

928+97.82, 28.98' LT

930+53.62, 142.87' LT

930+38.96, 18.32' LT

929+80.96, 44.15' RT

STH 36 (W. LOOMIS ROAD)

924 926 928 930 932 934 936 938

CTH OO

USH 45

18 16

SHEET 3 OF 5

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RACINE	LIGHTING PLAN	SHEET 106	E

FILE NAME : N:\PDS\C3D\CAD\22401330\LTG\023501_LP.DWG PLOT DATE : 4/22/2015 10:35 AM PLOT BY : LAROSA, PHILIP P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING LUMINAIRES UTILITY HPS TO BE REMOVED AND REPLACED WITH LUMINAIRES UTILITY LED-C

N

W. RYAN ROAD

S. 116TH STREET

STH 36 (MILWAUKEE AVENUE)

968+26.79, 29.89' LT

969+49.17, 112.98' LT

970+95.89, 18.81' LT

969+76.81, 31.41' RT

970+26.01, 45.00' RT

971+47.72, 32.18' RT

CTH H (W. RYAN ROAD)

962 964 966 968 970 972 974 976

SHEET 4 OF 5

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RACINE	LIGHTING PLAN	SHEET 107	E

LEGEND

EXISTING LUMINAIRES UTILITY HPS TO BE REMOVED AND REPLACED WITH LUMINAIRES UTILITY LED-C

1051+34.76, 253.88' LT

1051+31.43, 74.25' LT

1048+85.23, 9.22' LT

1050+36.78, 12.49' LT

1053+89.16, 13.26' RT

1052+05.77, 12.78' RT

1051+10.77, 81.80' RT

1051+18.18, 220.90' RT

STH 100

STH 36 (MILWAUKEE AVENUE)

1042 1044 1046 1048 1050 1052 1054

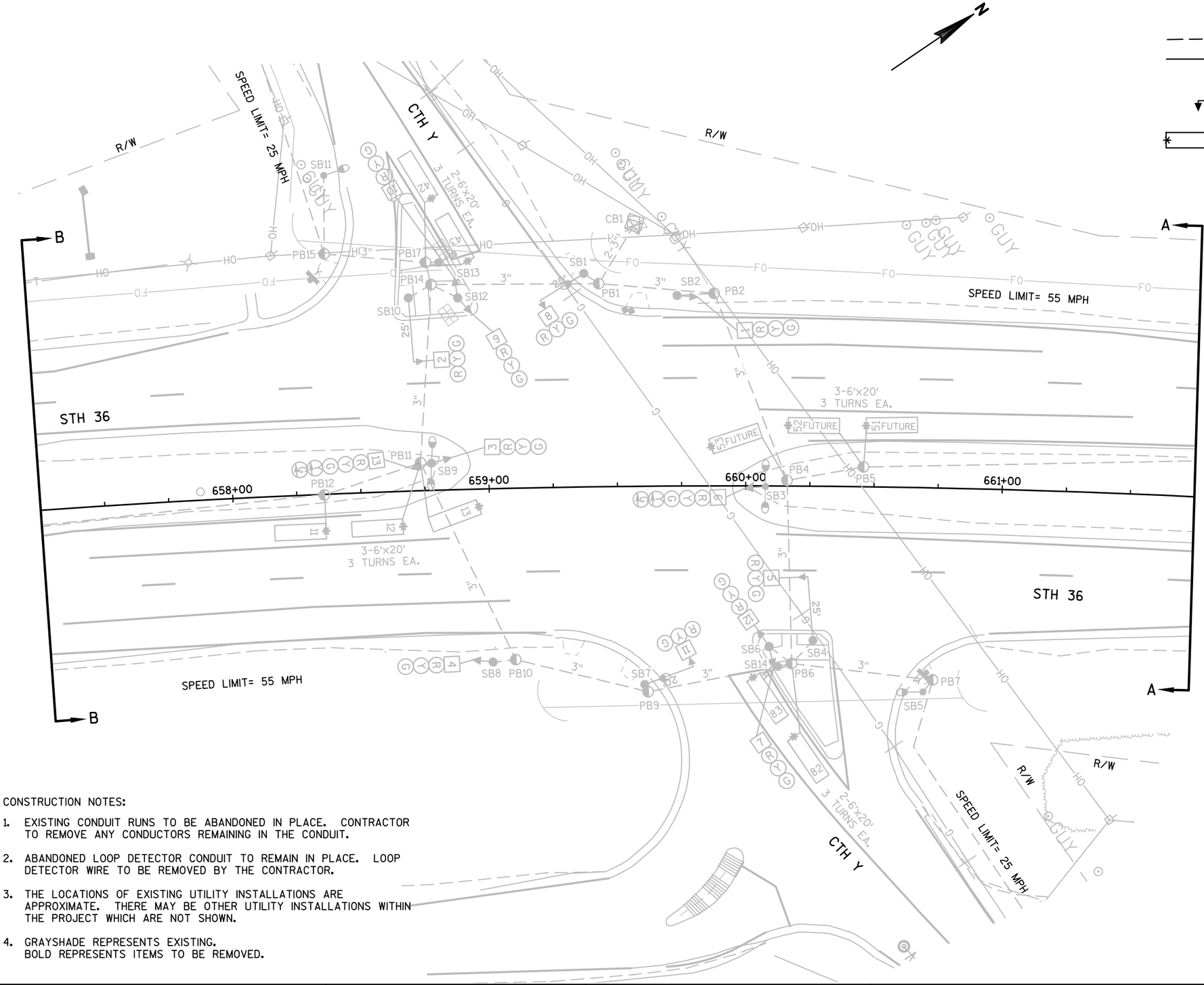
SHEET 5 OF 5

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RACINE	LIGHTING PLAN	SHEET 108 E

FILE NAME : N:\PDS\C3D\CAD\22401330\LTG\023501_LP.DWG PLOT DATE : 4/22/2015 10:35 AM PLOT BY : LAROSA, PHILIP P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- YIELD SIGN
- PUSH BUTTON

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE TO BE REMOVED BY THE CONTRACTOR.
3. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. GRAYSHADE REPRESENTS EXISTING.
BOLD REPRESENTS ITEMS TO BE REMOVED.

TRAFFIC CONTROL SIGNAL
STH 36 & CTH Y (LOOMIS RD)
TOWN OF NORWAY
RACINE COUNTY

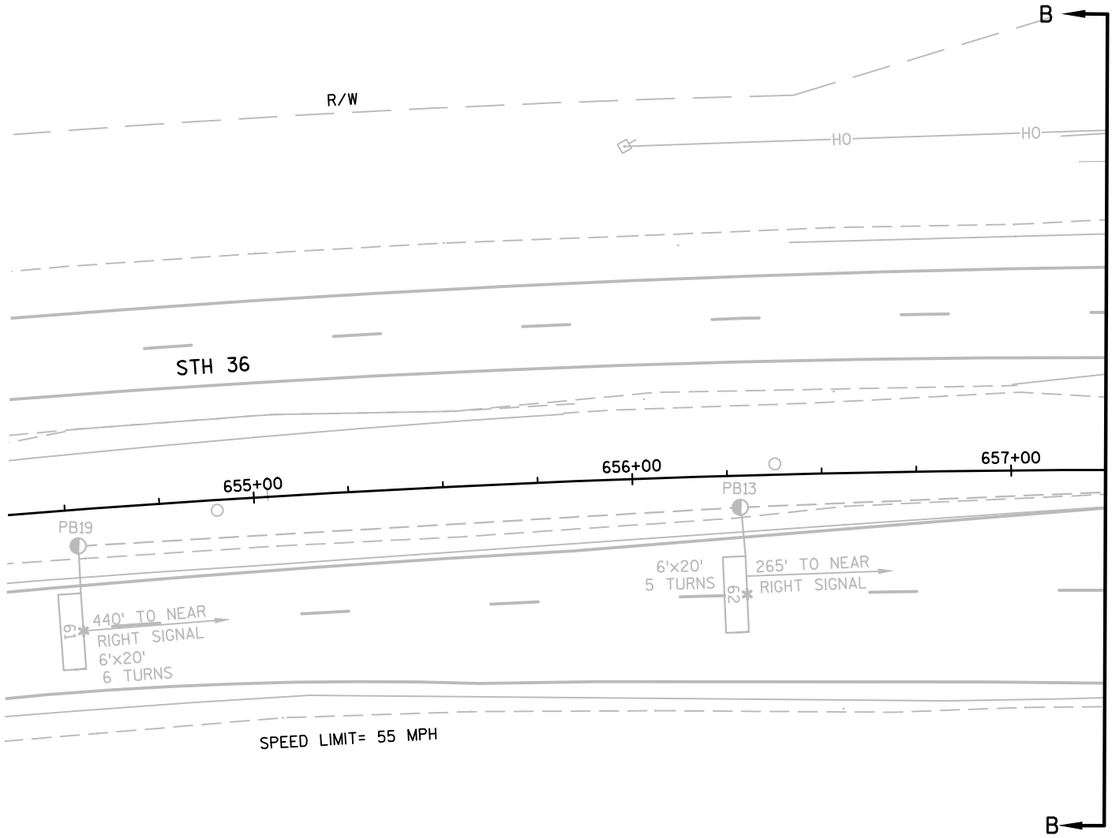
SIGNAL NO. S51-0582

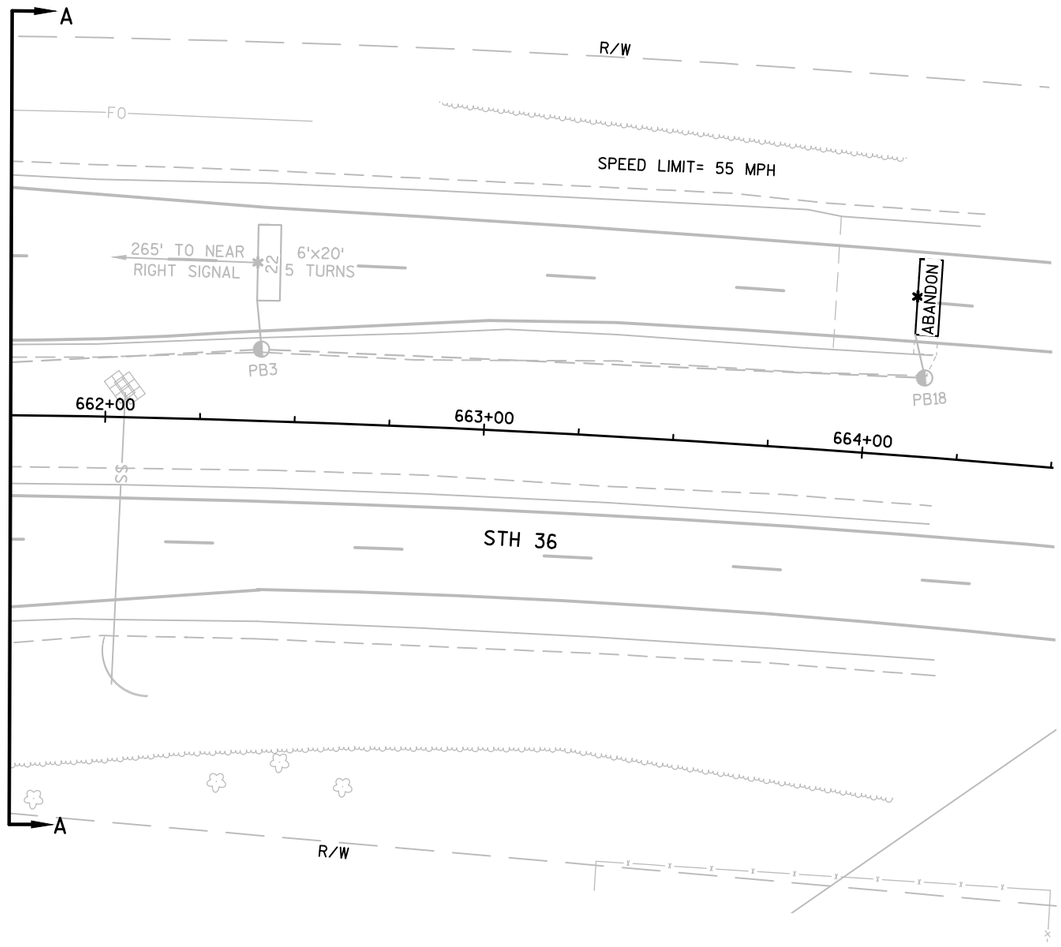
REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 109 E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIG\S51-0582\S51-0582_F_REM.DWG
LAYOUT NAME - 024005_REM_SP
PLOT DATE : 7/15/2015 10:10 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2





TRAFFIC CONTROL SIGNAL
STH 36 & CTH Y (LOOMIS RD)
TOWN OF NORWAY
RACINE COUNTY

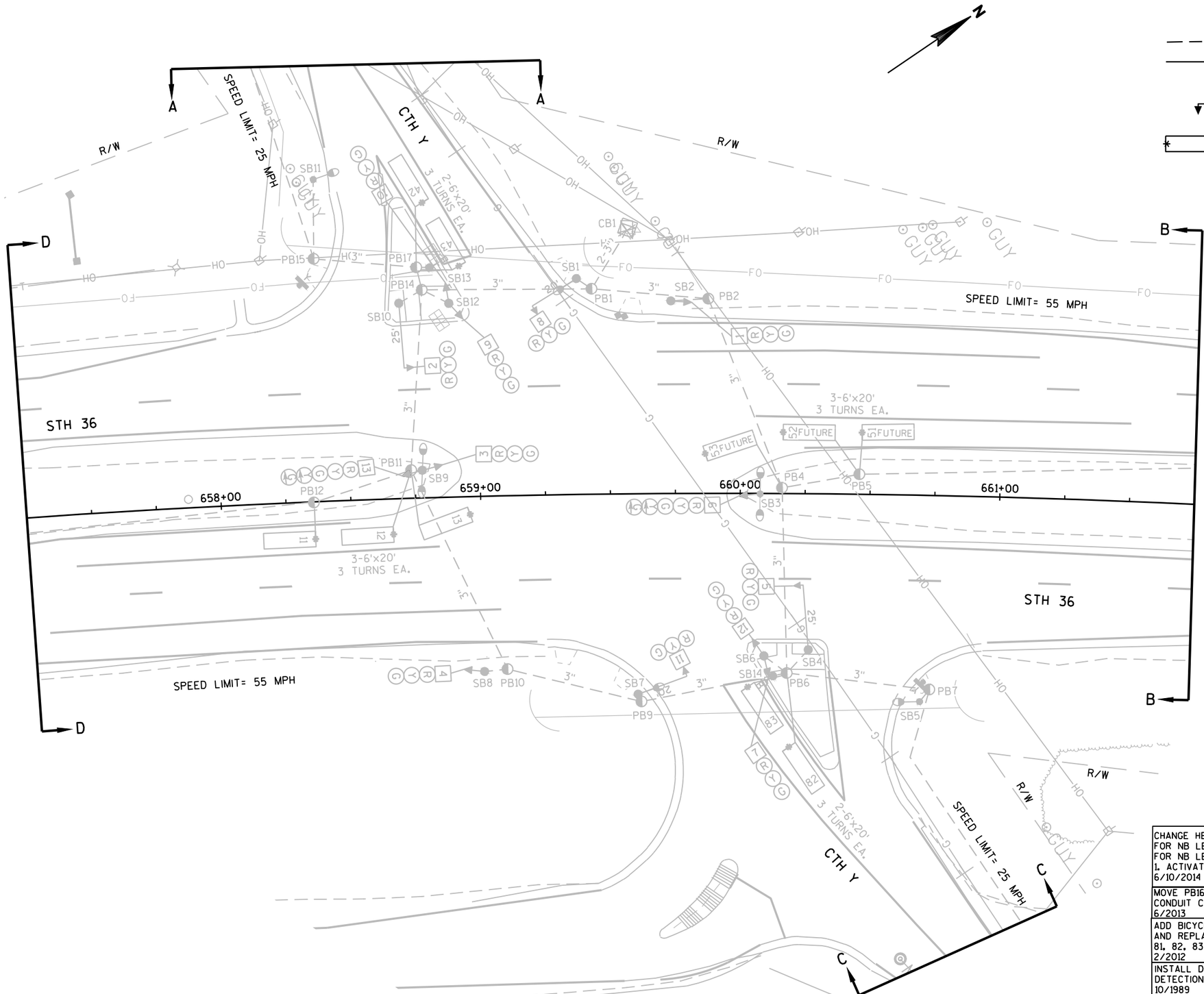
SIGNAL NO. S51-0582

REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 2 OF 2

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 110	E

2



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- Y YIELD SIGN
- PB PUSH BUTTON

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

REVISION				
REV. NO.	REPLACE LOOP #21			
	APPROVAL RECOMMENDED		APPROVED	
5	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY
	7/22/15	JMM	7/23/15	DJB

CHANGE HEAD 6 TO 5-SECTION FOR NB LEFT. ADD HEAD 13 FOR NB LEFT. ACTIVATE PHASE 1. ACTIVATE LOOPS 11, 12, 13. 6/10/2014

MOVE PB16 AND ADD NEW CONDUIT CONNECTION 6/2013

ADD BICYCLE PUSH BUTTONS AND REPLACE LOOPS 42, 42, 81, 82, 83 2/2012

INSTALL DILEMA ZONE DETECTION FOR PHASES 2 & 5 10/1989

TRAFFIC CONTROL SIGNAL
STH 36 & CTH Y (LOOMIS RD)
TOWN OF NORWAY
RACINE COUNTY
CABINET TYPE: TS1
SIGNAL NO. S51-0582 CONTROLLER TYPE: EPAC

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 7/27/95 C. KNERR, REGION TRAFFIC ENGINEER

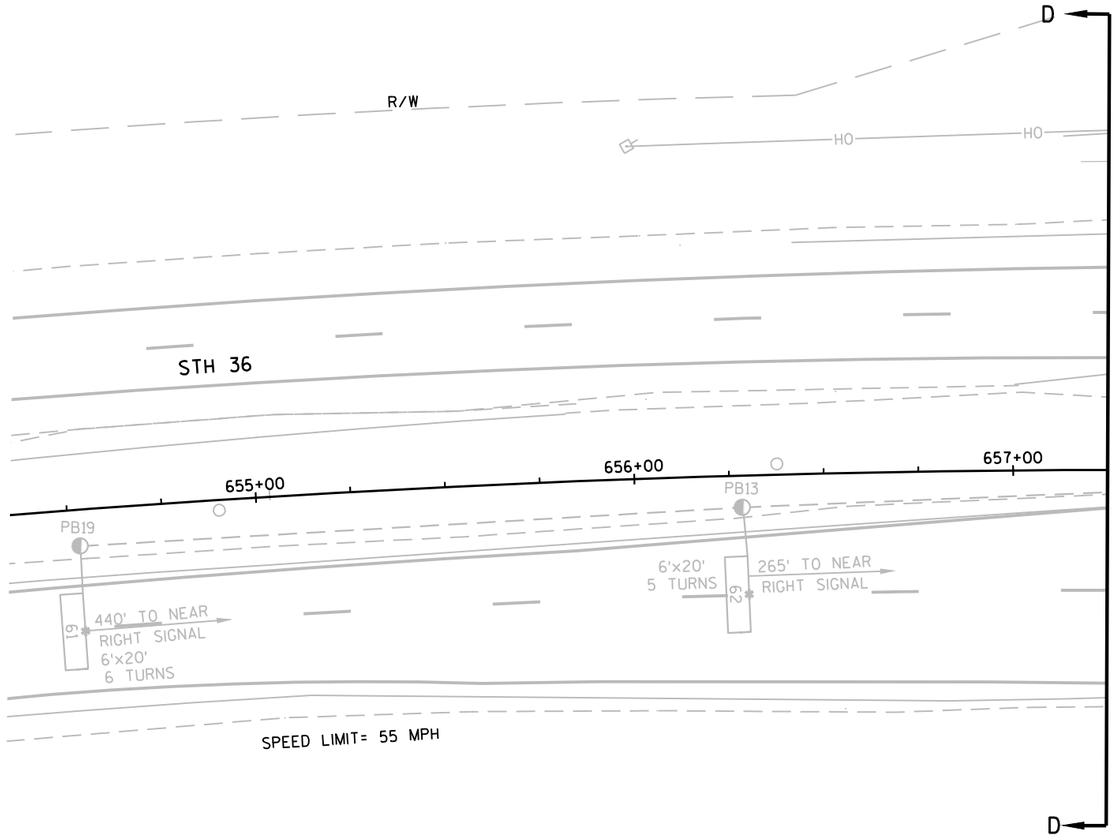
APPROVED
DATE 8/7/95 R. J. MOE, STATE TRAFFIC ENGINEER

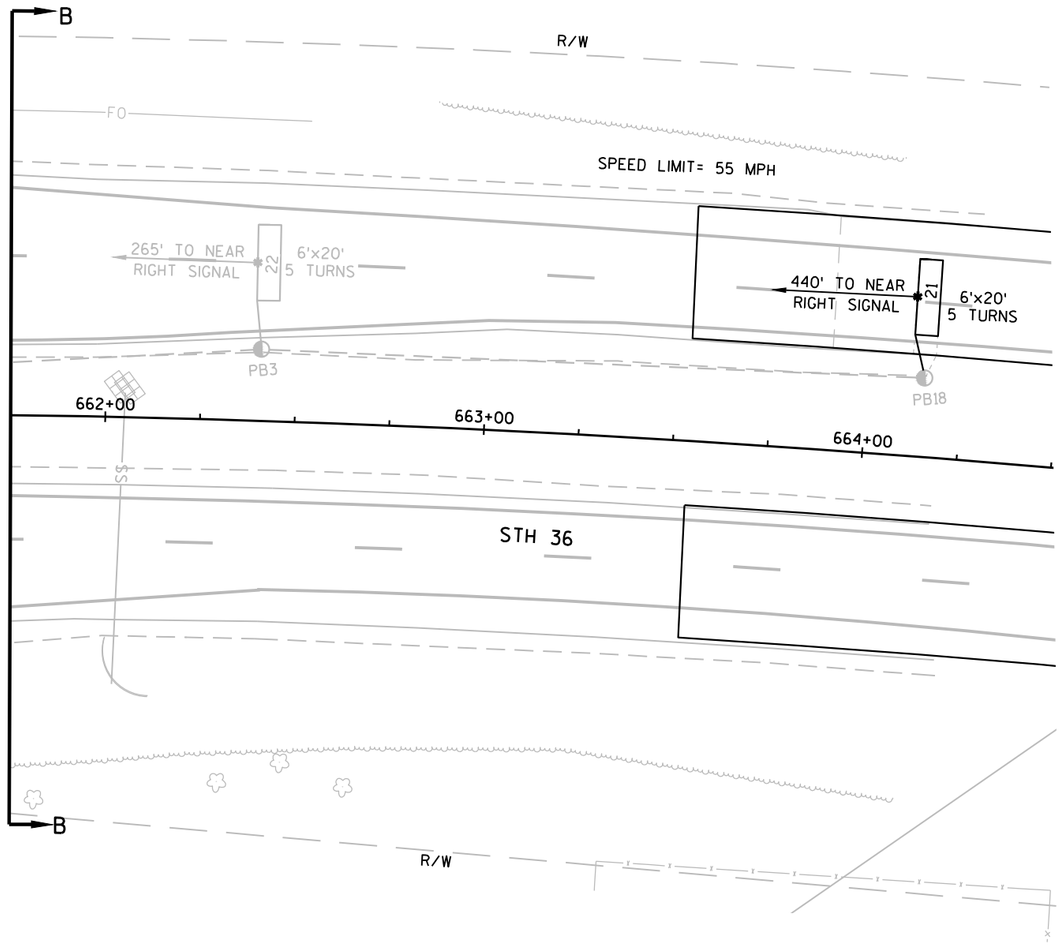
REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL PLAN	SHEET 111	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIG\S51-0582\S51-0582_F.DWG
LAYOUT NAME - 024005_SP
PLOT DATE : 7/23/2015 1:48 PM
PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2





TRAFFIC CONTROL SIGNAL
STH 36 & CTH Y (LOOMIS RD)
TOWN OF NORWAY
RACINE COUNTY

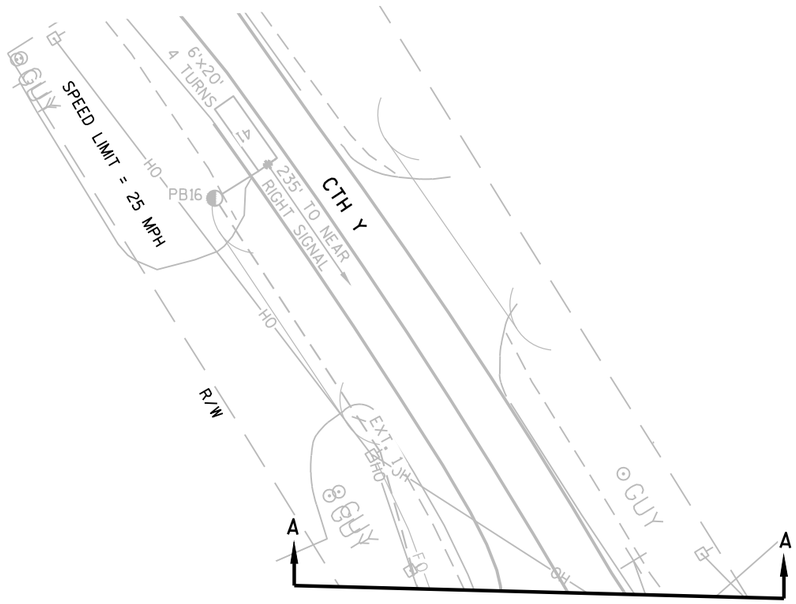
SIGNAL NO. S51-0582

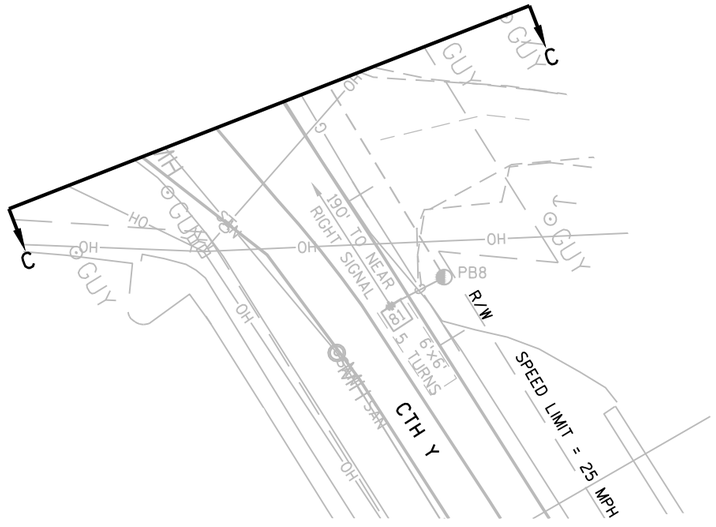
REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 2 OF 4

PROJECT NO:2240-13-60	HWY: STH 36	COUNTY:RAC/WAU/MIL	TRAFFIC SIGNAL PLAN	SHEET 112	E

2





TRAFFIC CONTROL SIGNAL
STH 36 & CTH Y (LOOMIS RD)
TOWN OF NORWAY
RACINE COUNTY

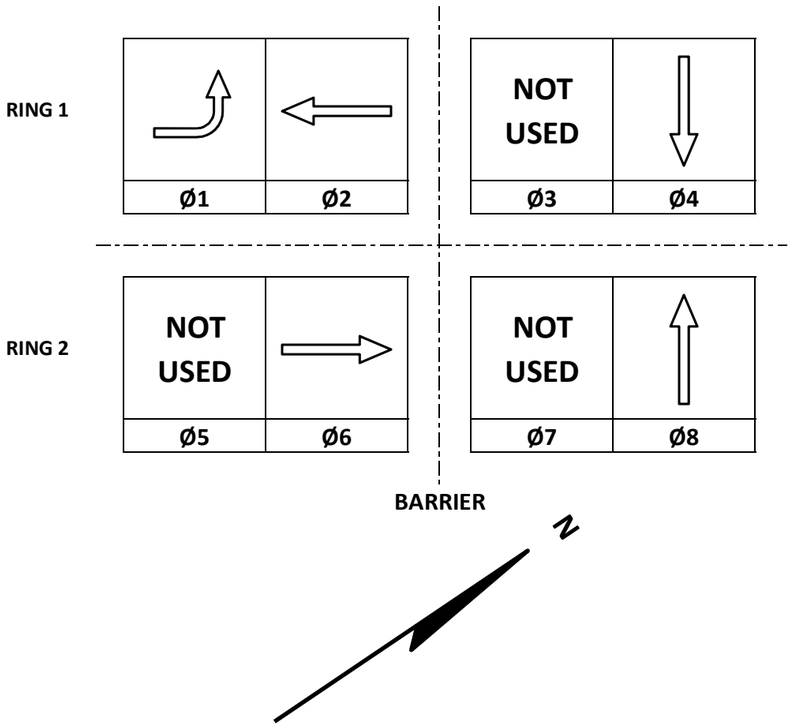
SIGNAL NO. S51-0582

REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 3 OF 4

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL PLAN	SHEET 113	E

	HEAD NUMBERS	FLASH
Ø1	6,13	-
Ø2	1,2,3	R
Ø3		
Ø4	10,11,12	R
Ø5		
Ø6	4,5,6,13	R
Ø7		
Ø8	7,8,9	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLA		
OLB		
OLC		
OLD		



DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
11	1	X			1	1				6'X20'	3
12	2	X			1	1				6'X20'	3
13	2	X			1	1				6'X20'	3
21	3	X			2	2				6'X20'	5
22	3	X			2	2				6'X20'	5
41	4			X		4			X	6'X20'	4
42	5	X			4	4		X		6'X20'	3
43	5	X			4	4		X		6'X20'	3
51	6	FUTURE								6'X20'	3
52	7	FUTURE								6'X20'	3
53	7	FUTURE								6'X20'	3
61	8	X			6	6				6'X20'	6
62	8	X			6	6				6'X20'	5
81	9			X		8			X	6'X20'	5
82	10	X			8	8		X		6'X20'	3
83	10	X			8	8		X		6'X20'	3

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3				
4		8		X
5				
6	X	2	MIN	X
7				
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

GENERAL NOTES:

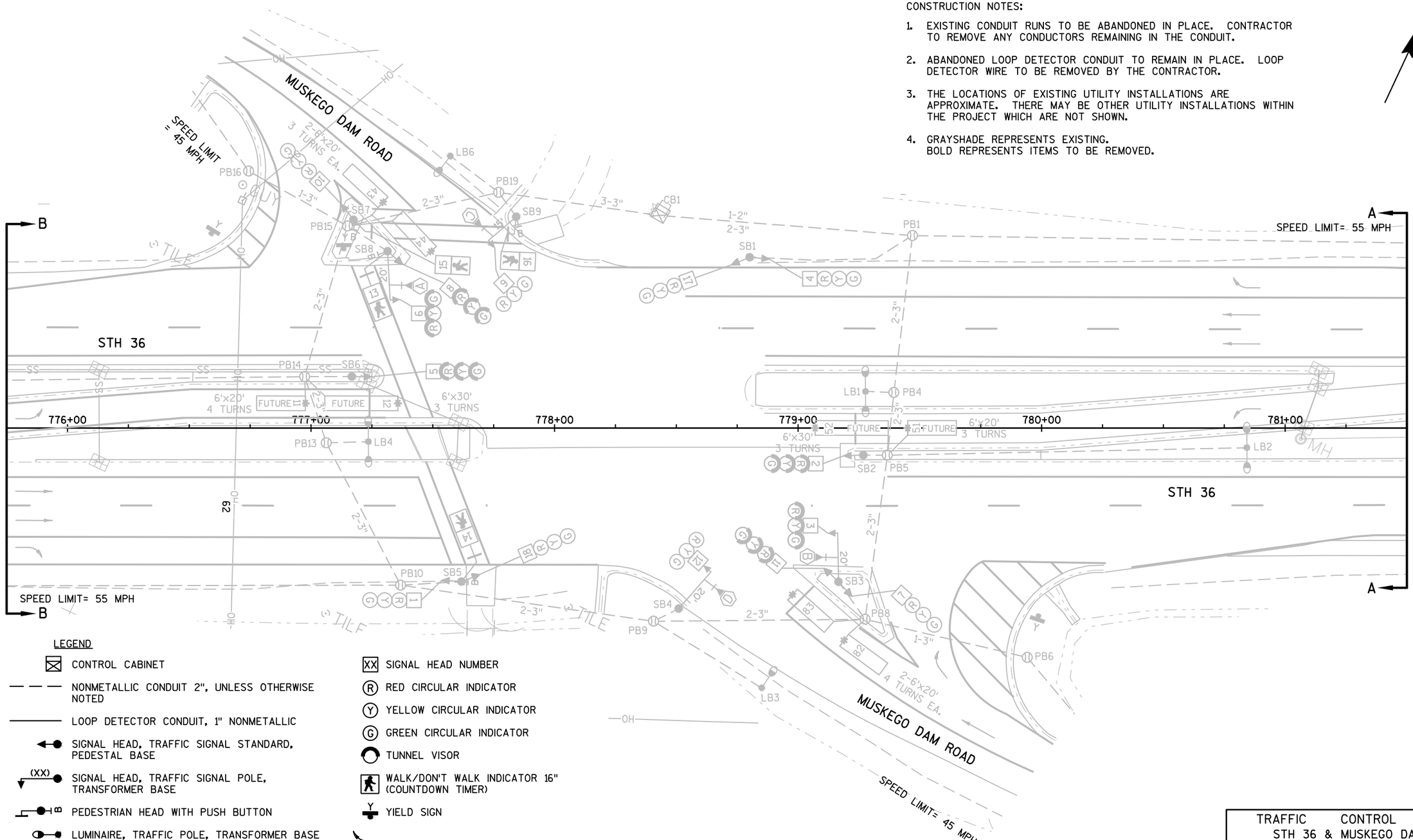
1. BUTTONS ON SB13 AND SB14 USED TO CALL PHASE 4 AND PHASE 8 GREEN FOR BICYCLISTS VIA PROGRAMMED PED TIMING.

STH 36 & CTH Y (LOOMIS RD)
TOWN OF NORWAY
RACINE COUNTY
SIGNAL NO: S51-0582 CABINET TYPE: TS1
CONTROLLER TYPE: EPAC
DATE: 5/15 PAGE NO. 4 OF 4

FILE NAME : \\WKERTOVFILPI01\n3public\SPO\Operations\Signals\Databases\Signal Intersection Files\S51-0582\PLANS\TS1.pptm PLOT DATE : 5/12/2015 11:40AM PLOT BY : WOLFORD, DERRIN PLOT NAME : _____ PLOT SCALE : 1:1

CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE TO BE REMOVED BY THE CONTRACTOR.
3. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. GRAYSHADE REPRESENTS EXISTING.
BOLD REPRESENTS ITEMS TO BE REMOVED.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- TUNNEL VISOR
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- YIELD SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

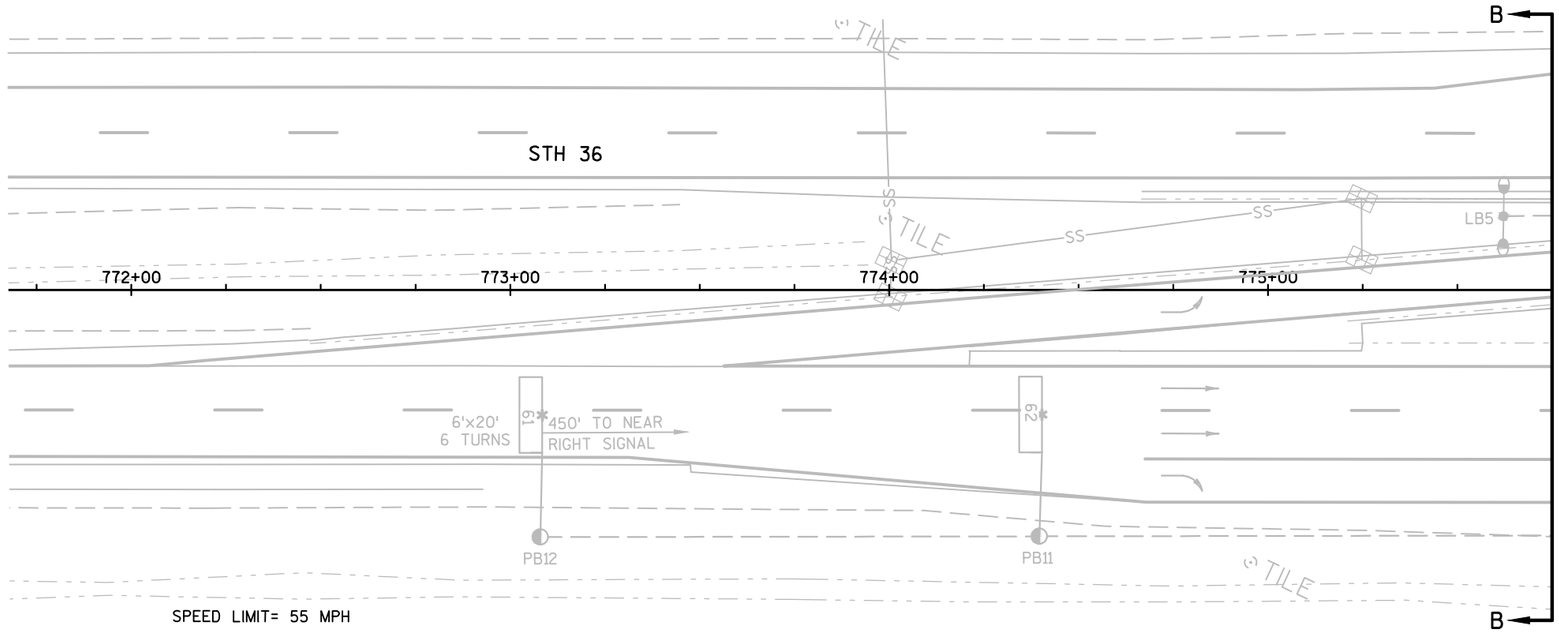
TRAFFIC CONTROL SIGNAL
STH 36 & MUSKEGO DAM ROAD
CITY OF MUSKEGO
WAUKESHA COUNTY

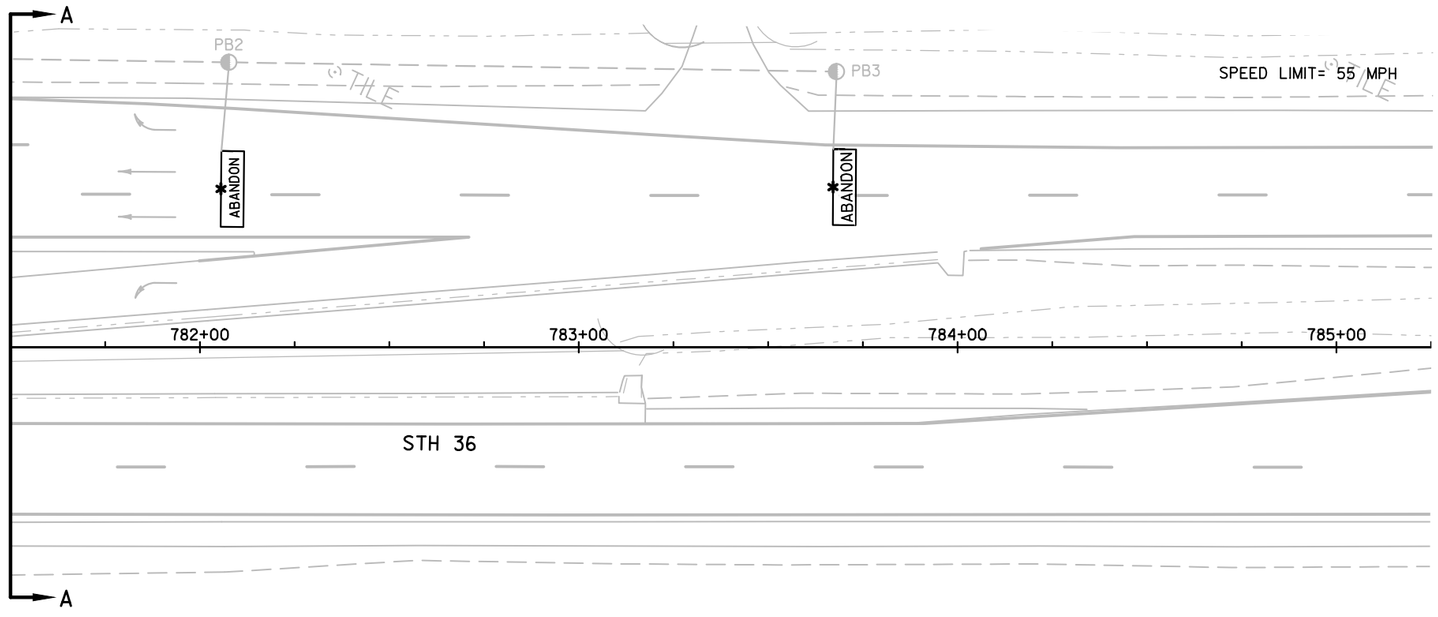
SIGNAL NO. S67-0980

REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 1 OF 2

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 115	E





2

TRAFFIC CONTROL SIGNAL
STH 36 & MUSKEGO DAM ROAD
CITY OF MUSKEGO
WAUKESHA COUNTY

SIGNAL NO. S67-0980

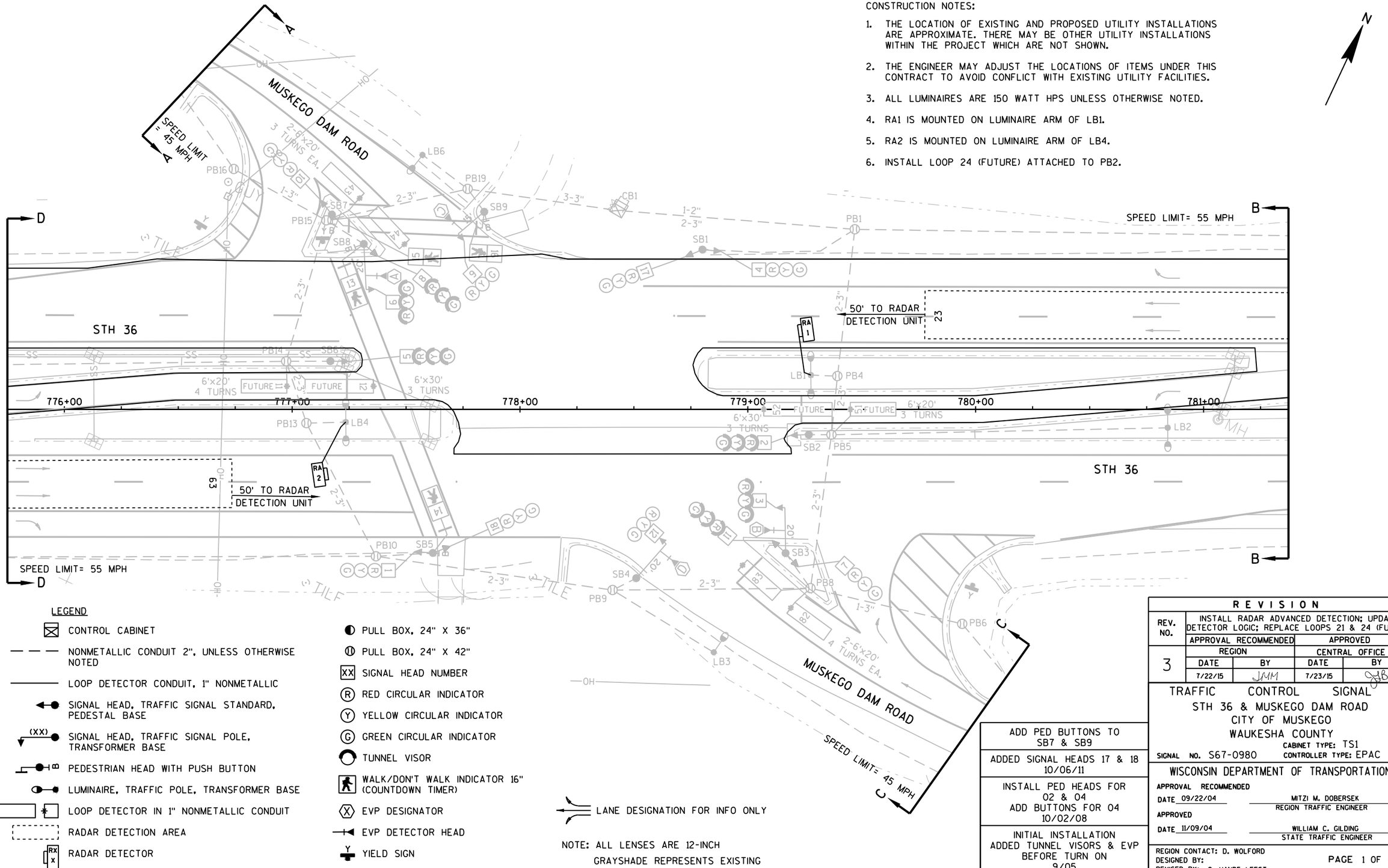
REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 2 OF 2

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 116	E

CONSTRUCTION NOTES:

1. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
3. ALL LUMINAIRES ARE 150 WATT HPS UNLESS OTHERWISE NOTED.
4. RA1 IS MOUNTED ON LUMINAIRE ARM OF LB1.
5. RA2 IS MOUNTED ON LUMINAIRE ARM OF LB4.
6. INSTALL LOOP 24 (FUTURE) ATTACHED TO PB2.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- RADAR DETECTION AREA
- RX RADAR DETECTOR
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- TUNNEL VISOR
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD
- Y YIELD SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

REVISION				
REV. NO.	INSTALL RADAR ADVANCED DETECTION; UPDATE DETECTOR LOGIC; REPLACE LOOPS 21 & 24 (FUTURE)			
	APPROVAL RECOMMENDED		APPROVED	
3	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY
	7/22/15	JMM	7/23/15	GJB

ADD PED BUTTONS TO SB7 & SB9

ADDED SIGNAL HEADS 17 & 18 10/06/11

INSTALL PED HEADS FOR 02 & 04
ADD BUTTONS FOR 04
10/02/08

INITIAL INSTALLATION
ADDED TUNNEL VISORS & EVP
BEFORE TURN ON
9/05

TRAFFIC CONTROL SIGNAL
STH 36 & MUSKEGO DAM ROAD
CITY OF MUSKEGO
WAUKESHA COUNTY
CABINET TYPE: TS1
SIGNAL NO. S67-0980 CONTROLLER TYPE: EPAC

WISCONSIN DEPARTMENT OF TRANSPORTATION

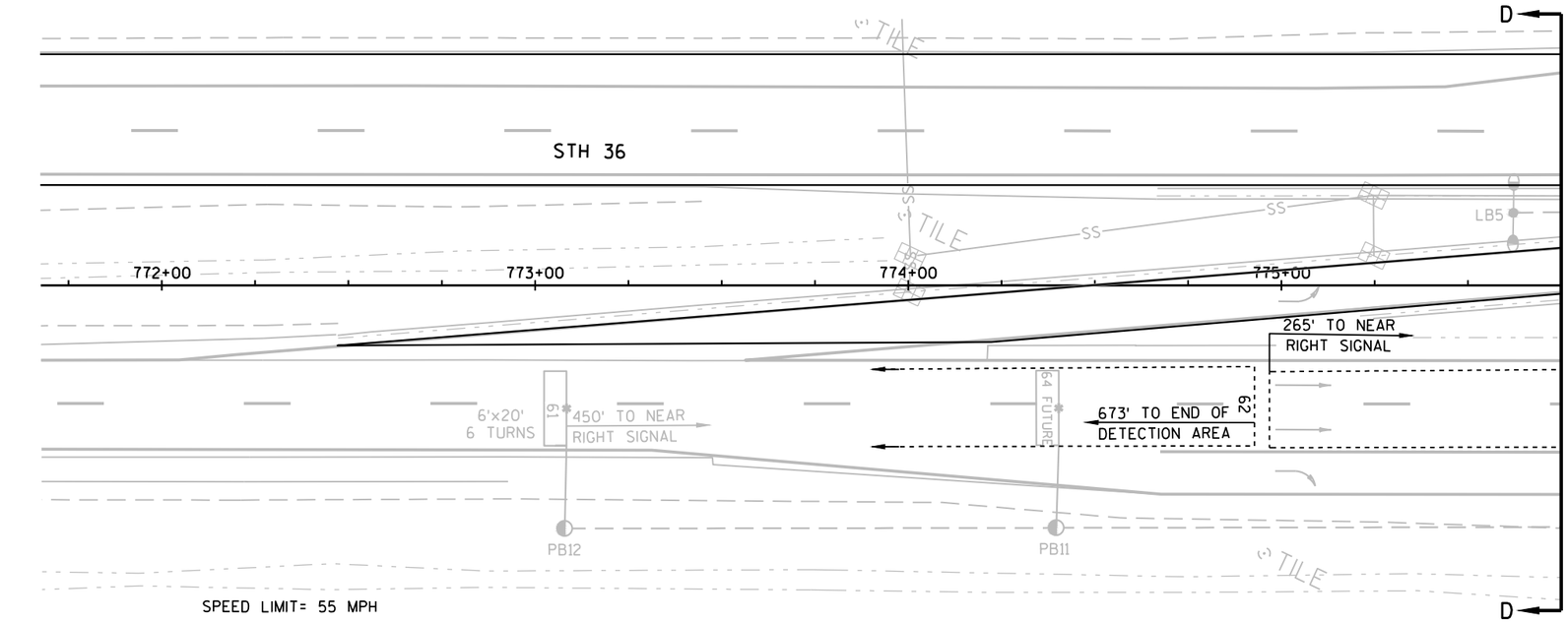
APPROVAL RECOMMENDED
DATE 09/22/04 — MITZI M. DOBERSEK, REGION TRAFFIC ENGINEER

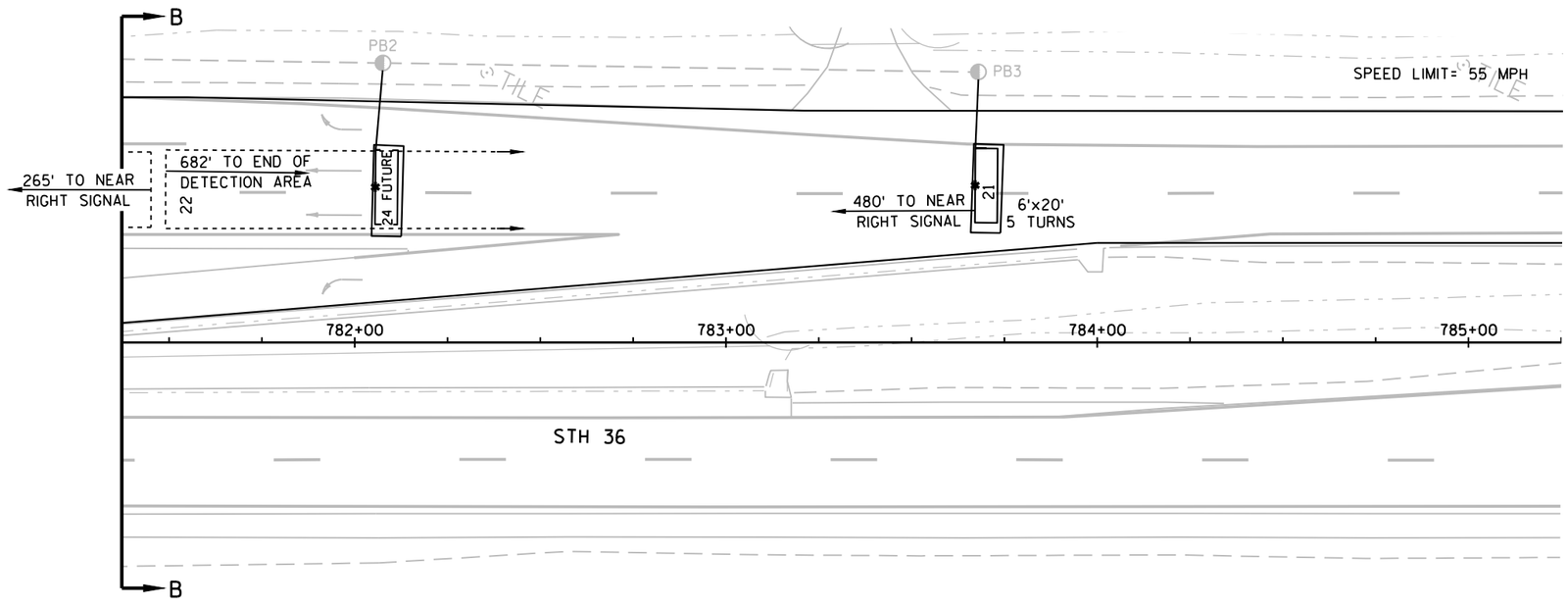
APPROVED
DATE 11/09/04 — WILLIAM C. GILDING, STATE TRAFFIC ENGINEER

REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL PLAN	SHEET 117	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIG\S67-0980\S67-0980_E.DWG
LAYOUT NAME - 024004_SP
PLOT DATE : 7/23/2015 1:58 PM
PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42





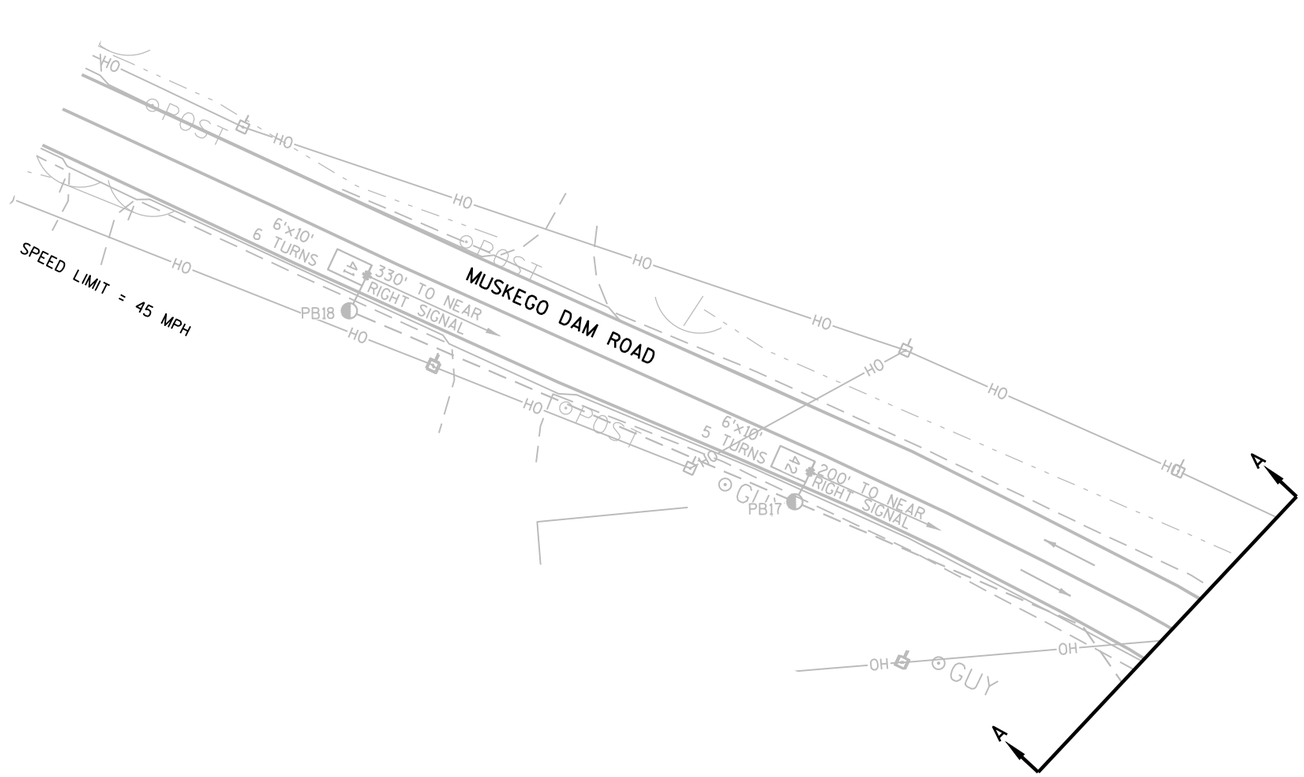
TRAFFIC CONTROL SIGNAL
STH 36 & MUSKEGO DAM ROAD
CITY OF MUSKEGO
WAUKESHA COUNTY

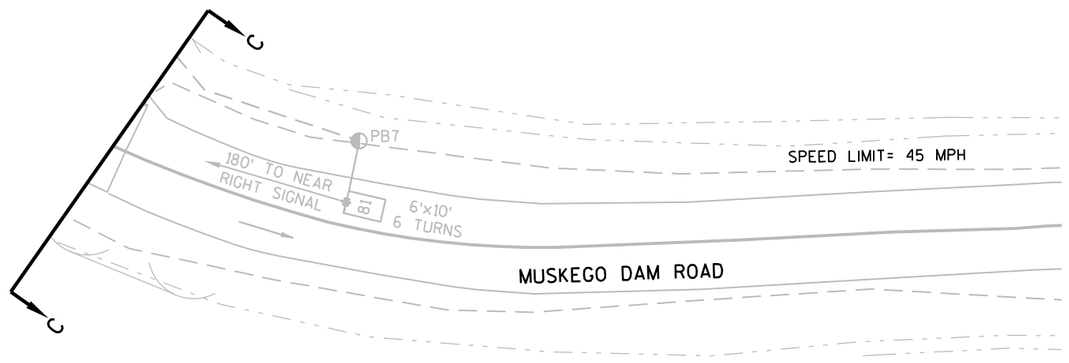
SIGNAL NO. S67-0980

REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 2 OF 4

PROJECT NO:2240-13-60	HWY: STH 36	COUNTY:RAC/WAU/MIL	TRAFFIC SIGNAL PLAN	SHEET 118	E





N

TRAFFIC CONTROL SIGNAL
STH 36 & MUSKEGO DAM ROAD
CITY OF MUSKEGO
WAUKESHA COUNTY

SIGNAL NO. S67-0980

REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 3 OF 4

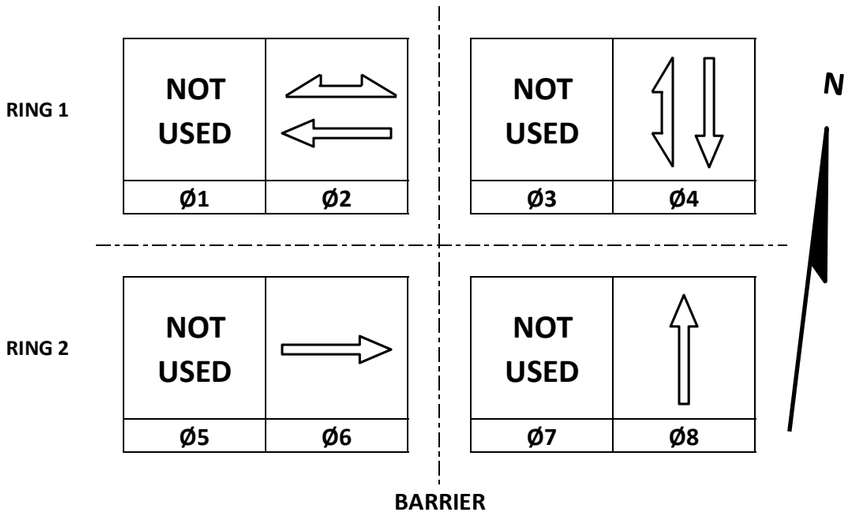
PROJECT NO:2240-13-60	HWY: STH 36	COUNTY:RAC/WAU/MIL	TRAFFIC SIGNAL PLAN	SHEET 119	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIG\S67-0980\S67-0980_E.DWG
LAYOUT NAME - 024004_SP (3)

PLOT DATE : 7/23/2015 1:59 PM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1		
Ø2	4,5,6,18	R
Ø3		
Ø4	10,11,12	R
Ø5		
Ø6	1,2,3,17	R
Ø7		
Ø8	7,8,9	R
Ø2P	15,16	
Ø4P	13,14	
Ø6P		
Ø8P		
OLA		
OLB		
OLC		
OLD		



DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
11	FUTURE									6'X20'	4
12	FUTURE									6'X30'	3
21	1			X		2			X	6'X20'	5
22/23				X		2				RADAR	
41	2			X		4			X	6'X10'	6
42	2					4			X	6'X10'	5
43	3	X			4	4		X		6'X20'	3
44	3	X			4	4		X		6'X20'	3
51	FUTURE									6'X20'	3
52	FUTURE									6'X30'	3
61	4			X		6			X	6'X20'	6
62/63				X		6				RADAR	
81	5			X		8			X	6'X10'	6
82	6	X			8	8		X		6'X20'	4
83	6	X			8	8		X		6'X20'	4
24	FUTURE									6'X20'	5
64	FUTURE									6'X20'	5

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MIN	X
3				
4		8		X
5				
6	X	2	MIN	X
7				
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	X
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	← →	← →	↓ ↑	↓ ↑
PHASE	2+6	6+2	4+8	8+4

AFTER PREEMPTION SEQUENCE 2+6 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 4+8.

STH 36 & MUSKEGO DAM ROAD
CITY OF MUSKEGO
WAUKESHA COUNTY
SIGNAL NO: S67-0980 CABINET TYPE: TS1
CONTROLLER TYPE: EPAC
DATE: 5/15 PAGE NO. 4 OF 4

FILE NAME : \\WKERTOVFILPI01\n3public\SPO\Operations\Signals\Databases\Signal Intersection Files\S67-0980\PLANS\TS1.pptm PLOT DATE : 5/12/2015 11:20AM PLOT BY : WOLFORD, DERRIN PLOT NAME : _____ PLOT SCALE : 1:1

PROJECT ID:	2240-13-60
INTERSECTION:	STH 36 & MUSKEGO DAM ROAD

2

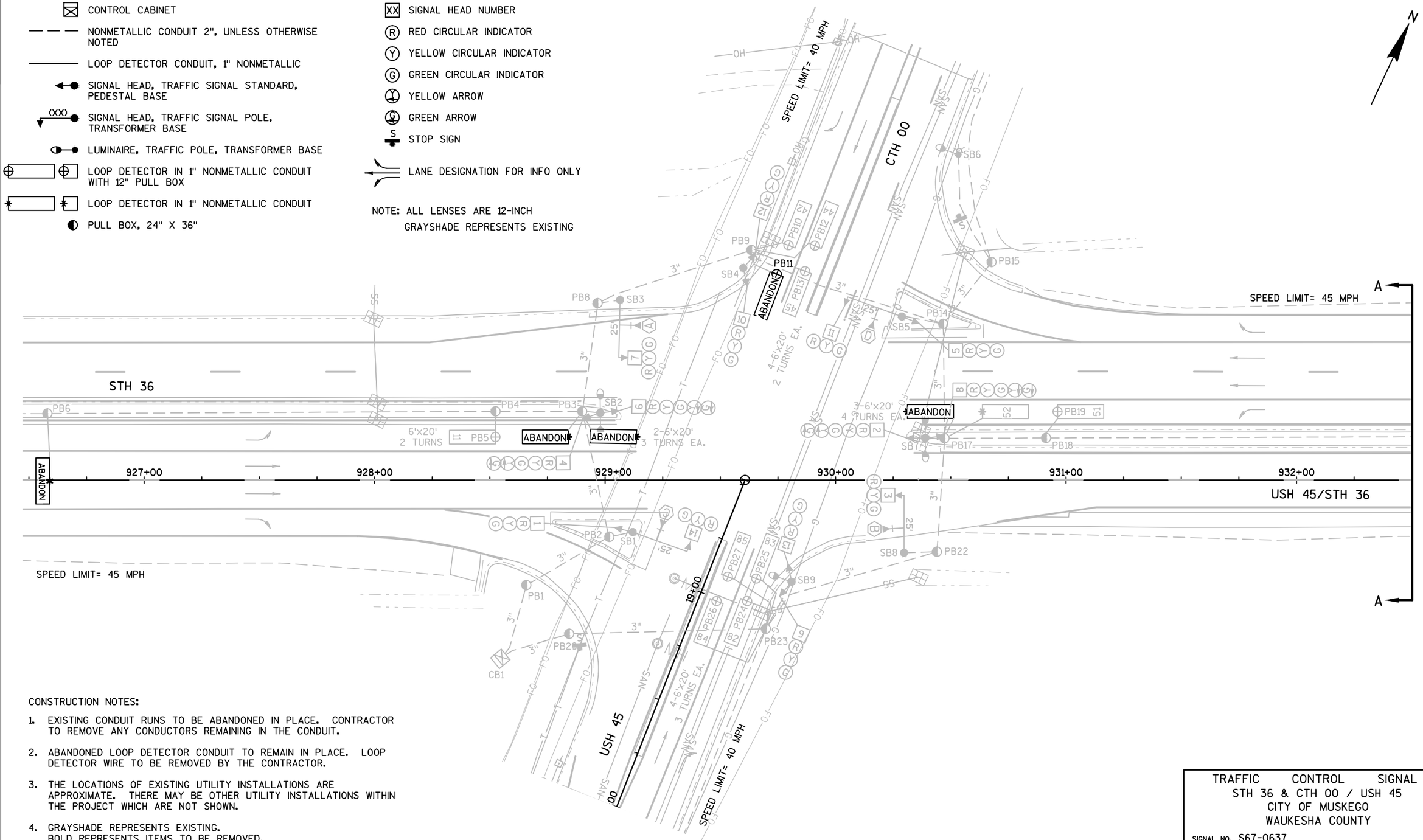
Radar Detection Cable	
From	To
CB1	LB1 (RA1)
CB1	LB4 (RA2)

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT WITH 12" PULL BOX
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- S STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE TO BE REMOVED BY THE CONTRACTOR.
3. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. GRAYSHADE REPRESENTS EXISTING.
   BOLD REPRESENTS ITEMS TO BE REMOVED.

TRAFFIC CONTROL SIGNAL
STH 36 & CTH OO / USH 45
CITY OF MUSKEGO
WAUKESHA COUNTY

SIGNAL NO. S67-0637

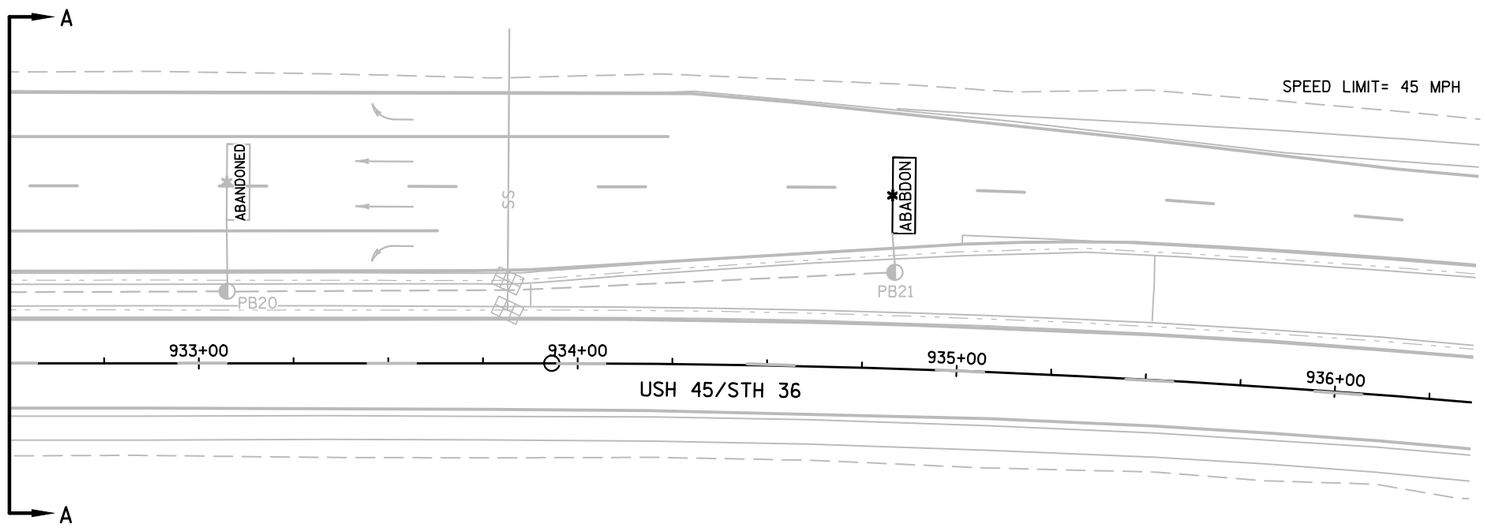
REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 1 OF 2

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 122	E

2

2



TRAFFIC CONTROL SIGNAL
STH 36 & CTH OO / USH 45
CITY OF MUSKEGO
WAUKESHA COUNTY

SIGNAL NO. S67-0637

REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 2 OF 2

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 123	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIG\S67-0637\S67-0637_REM.DWG
LAYOUT NAME - 024003_SP_REM (2)

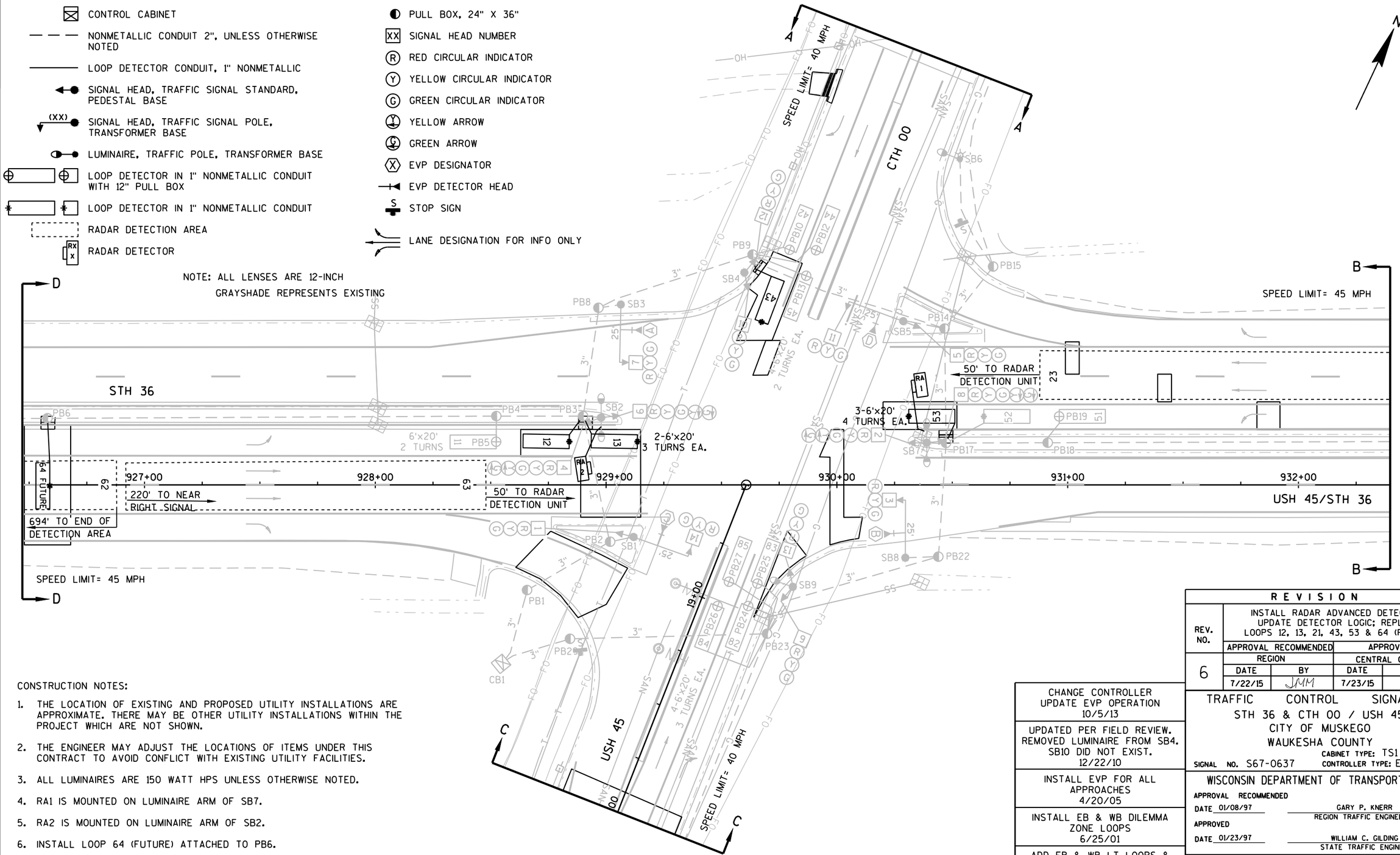
PLOT DATE : 7/15/2015 10:28 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT WITH 12" PULL BOX
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- RADAR DETECTION AREA
- RX RADAR DETECTOR
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- S STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
3. ALL LUMINAIRES ARE 150 WATT HPS UNLESS OTHERWISE NOTED.
4. RA1 IS MOUNTED ON LUMINAIRE ARM OF SB7.
5. RA2 IS MOUNTED ON LUMINAIRE ARM OF SB2.
6. INSTALL LOOP 64 (FUTURE) ATTACHED TO PB6.

REVISION	
REV. NO.	INSTALL RADAR ADVANCED DETECTION; UPDATE DETECTOR LOGIC; REPLACE LOOPS 12, 13, 21, 43, 53 & 64 (FUTURE)
	APPROVAL RECOMMENDED / APPROVED
6	REGION / CENTRAL OFFICE
	DATE 7/22/15 BY JMM — DATE 7/23/15 BY JB

CHANGE CONTROLLER UPDATE EVP OPERATION 10/5/13
UPDATED PER FIELD REVIEW. REMOVED LUMINAIRE FROM SB4. SB10 DID NOT EXIST. 12/22/10
INSTALL EVP FOR ALL APPROACHES 4/20/05
INSTALL EB & WB DILEMMA ZONE LOOPS 6/25/01
ADD EB & WB LT LOOPS & ARROWS 2/22/01

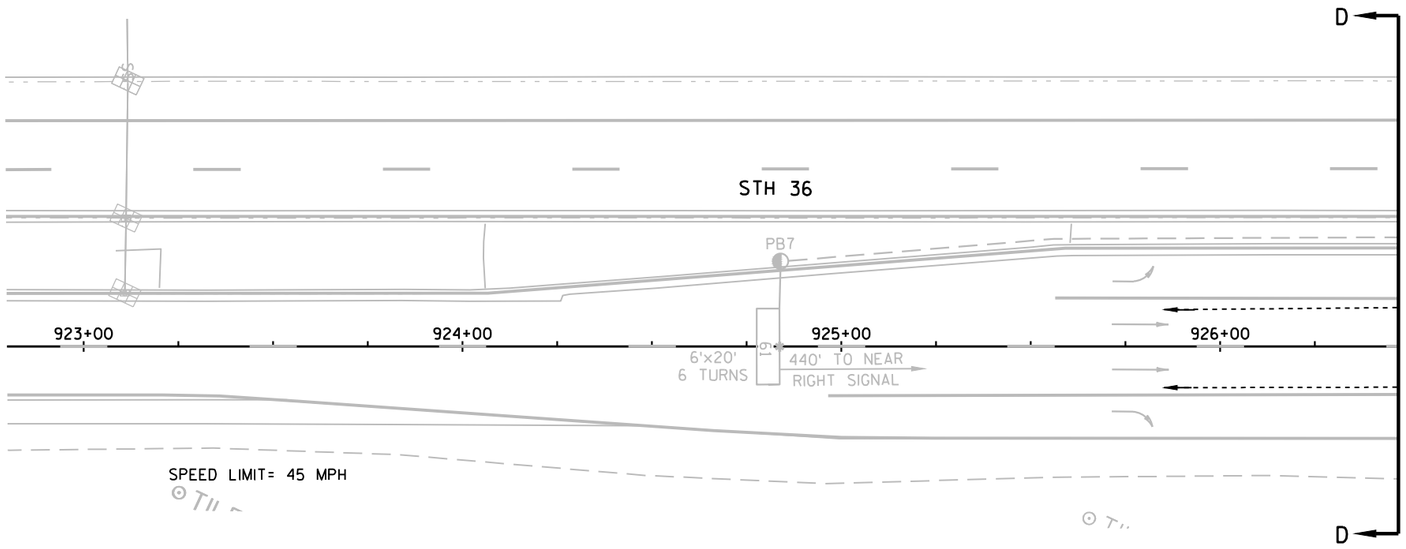
TRAFFIC CONTROL SIGNAL
STH 36 & CTH 00 / USH 45
CITY OF MUSKEGO
WAUKESHA COUNTY
CABINET TYPE: TS1
SIGNAL NO. S67-0637 CONTROLLER TYPE: EPAC

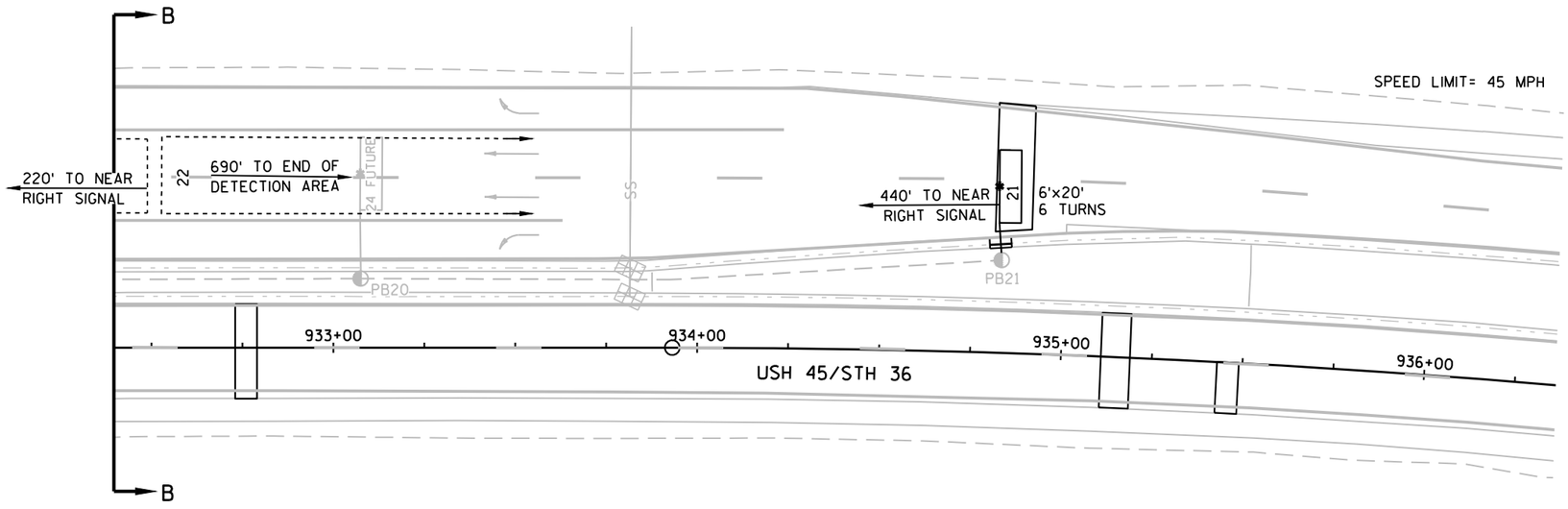
WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVAL RECOMMENDED
DATE 01/08/97 GARY P. KNERR, REGION TRAFFIC ENGINEER
APPROVED
DATE 01/23/97 WILLIAM C. GILDING, STATE TRAFFIC ENGINEER

REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL PLAN	SHEET 124 E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIG\S67-0637\S67-0637_E.DWG
LAYOUT NAME - 024003_SP
PLOT DATE : 7/23/2015 2:08 PM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42





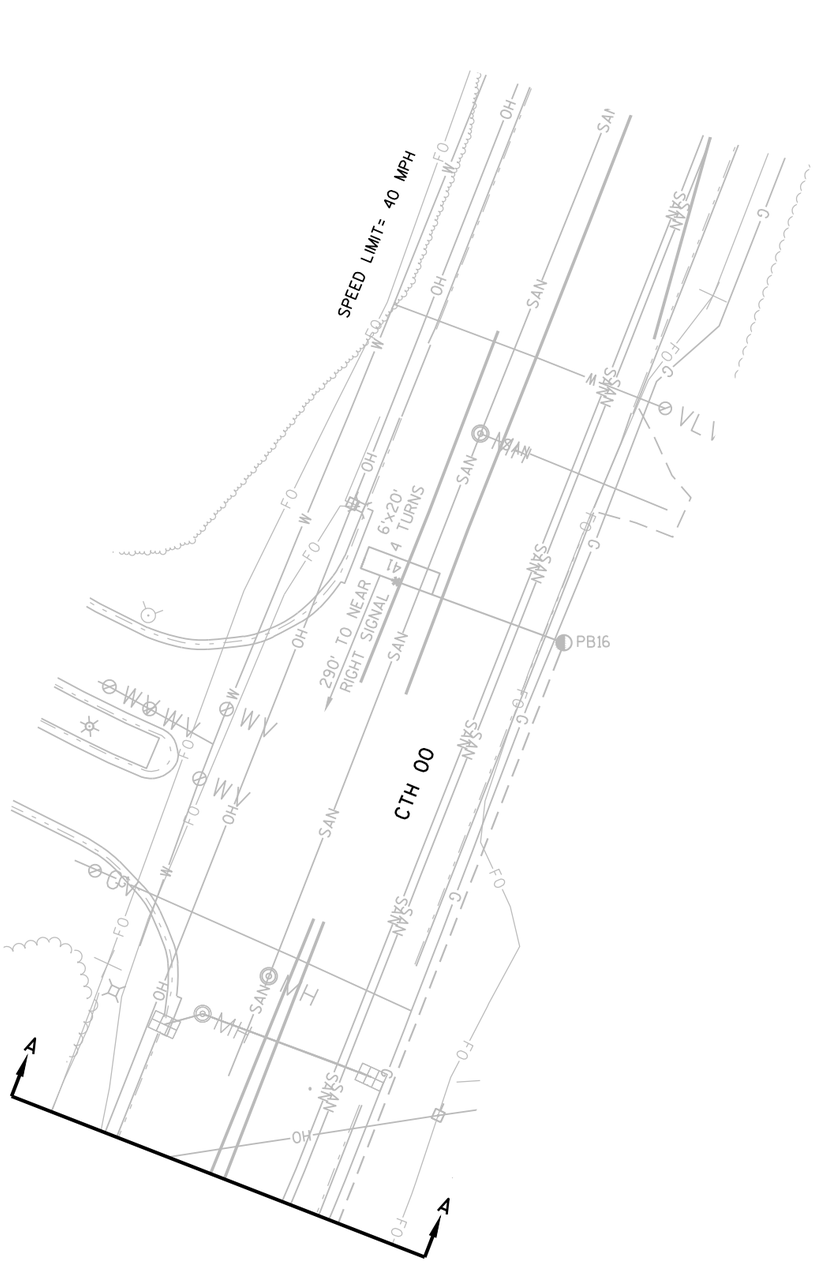
TRAFFIC CONTROL SIGNAL
STH 36 & CTH OO / USH 45
CITY OF MUSKEGO
WAUKESHA COUNTY

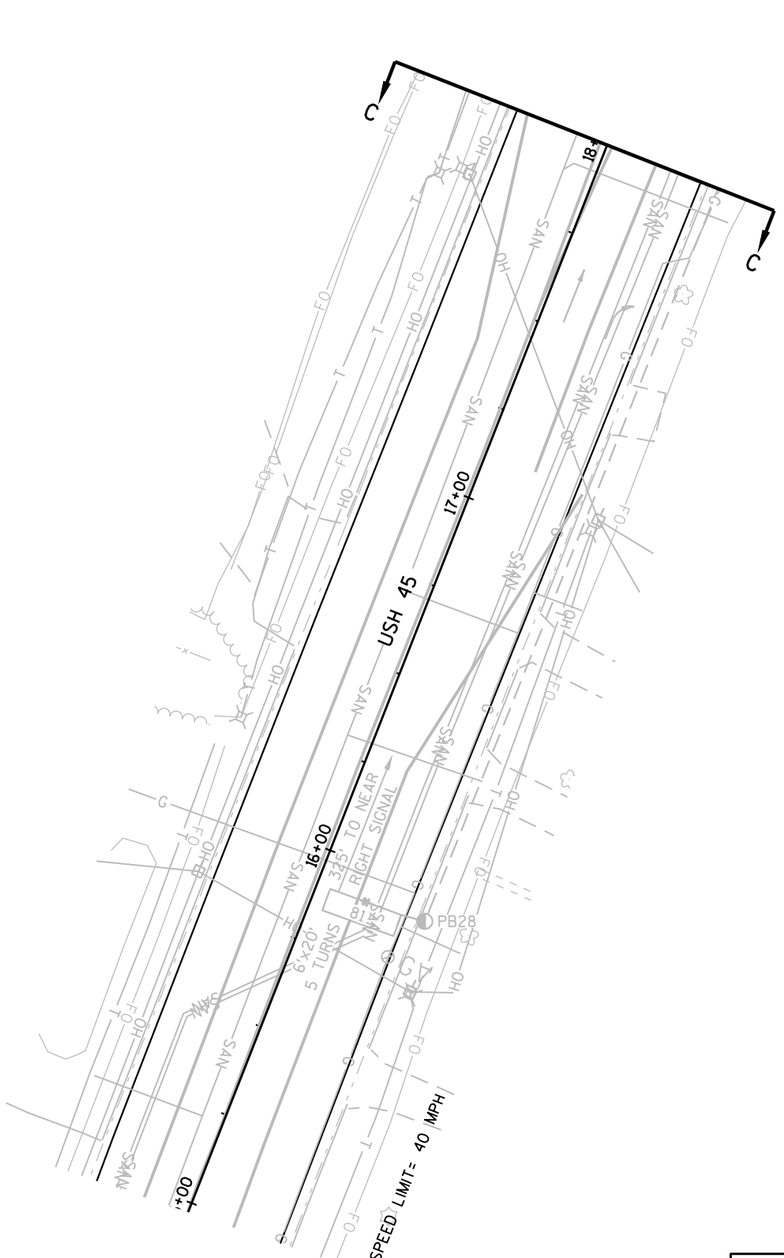
SIGNAL NO. S67-0637

REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 2 OF 4

PROJECT NO:2240-13-60	HWY: STH 36	COUNTY:RAC/WAU/MIL	TRAFFIC SIGNAL PLAN	SHEET 125 E





N

TRAFFIC CONTROL SIGNAL
STH 36 & CTH OO / USH 45
CITY OF MUSKEGO
WAUKESHA COUNTY

SIGNAL NO. S67-0637

REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

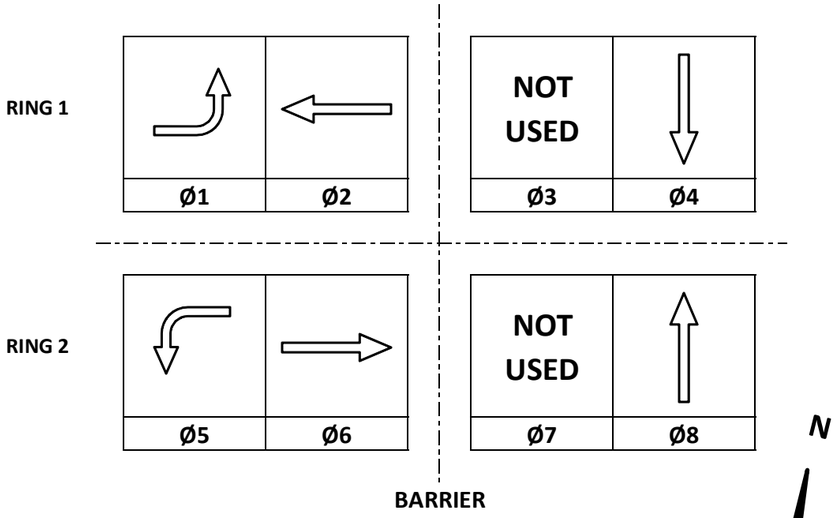
PAGE 3 OF 4

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL PLAN	SHEET 126	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIG\S67-0637\S67-0637_E.DWG
LAYOUT NAME - 024003_SP (3)

PLOT DATE : 7/23/2015 2:09 PM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1	2,4	-
Ø2	5,6,7,8	R
Ø3		
Ø4	12,13,14	R
Ø5	6,8	-
Ø6	1,2,3,4	R
Ø7		
Ø8	9,10,11	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLA		
OLB		
OLC		
OLD		



DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
11	1	X			1	1				6'X20'	2
12	2	X			1	1				6'X20'	3
13	2	X			1	1				6'X20'	3
21	3			X		2			X	6'X20'	6
22/23				X		2				RADAR	
41	4			X		4			X	6'X20'	4
42	5	X			4	4		X		6'X20'	2
43	5	X			4	4		X		6'X20'	2
44	6	X			4	4				6'X20'	2
45	6	X			4	4				6'X20'	2
51	7	X			5	5				6'X20'	4
52	8	X			5	5				6'X20'	4
53	8	X			5	5				6'X20'	4
61	9			X		6			X	6'X20'	6
62/63				X		6				RADAR	
81	10			X		8			X	6'X20'	5
82	11	X			8	8		X		6'X20'	3
83	11	X			8	8		X		6'X20'	3
84	12	X			8	8				6'X20'	3
85	12	X			8	8				6'X20'	3
24	FUTURE									6'X20'	5
64	FUTURE									6'X20'	5

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3				
4		8		X
5		2		X
6	X	2	MIN	X
7				
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	← →	← →	↓ ↑	↓ ↑
PHASE	2+6	6+2	4+8	8+4

AFTER PREEMPTION SEQUENCE 2+6 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 4+8.

STH 36 & CTH OO/USH 45
CITY OF MUSKEGO
WAUKESHA COUNTY
SIGNAL NO: S67-0637 CABINET TYPE: TS1
CONTROLLER TYPE: EPAC
DATE: 5/15 PAGE NO. 4 OF 4

FILE NAME : \\WKERTOVFILPI01\n3public\SPO\Operations\Signals\Databases\Signal Intersection Files\S67-0637\PLANS\TS1.pptm PLOT DATE : 5/12/2015 11:15AM PLOT BY : WOLFORD, DERRIN PLOT NAME : _____ PLOT SCALE : 1:1

PROJECT ID:	2240-13-60
INTERSECTION:	STH 36 & CTH OO/USH 45

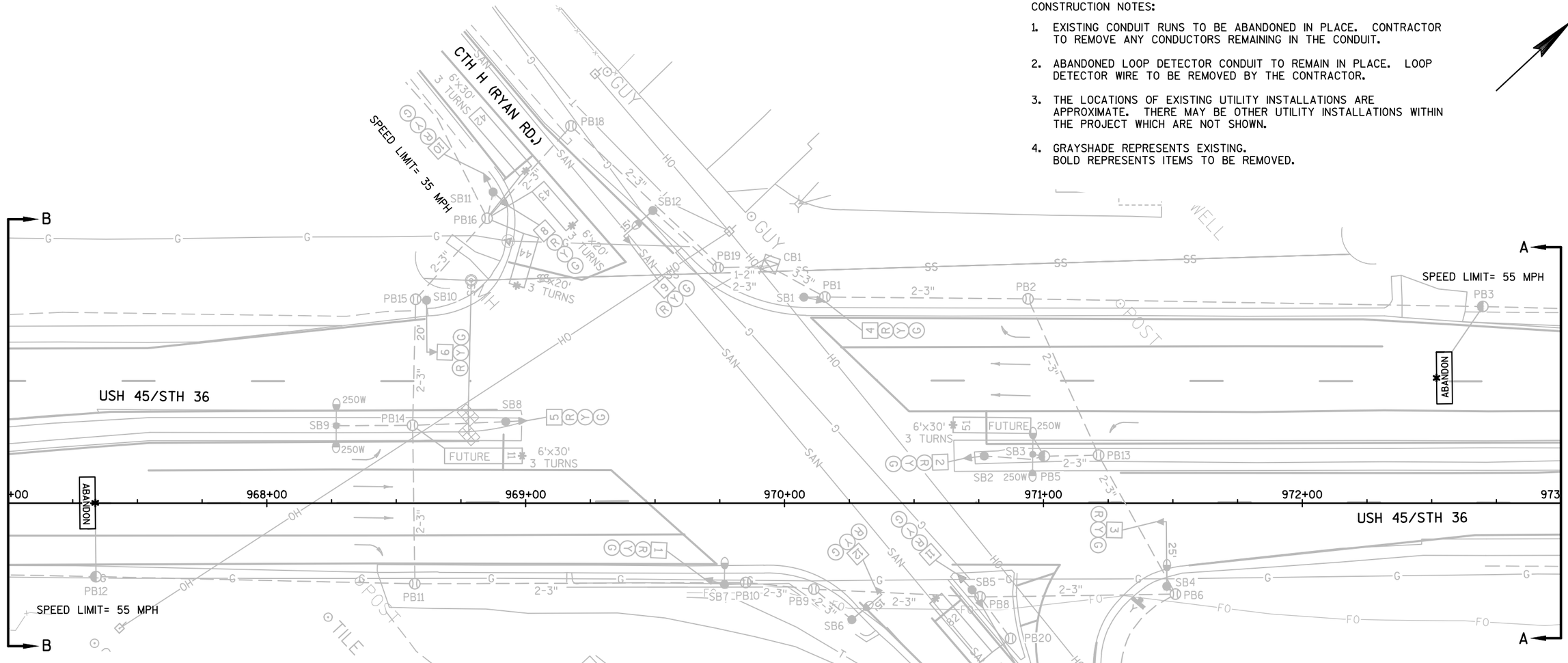
2

Radar Detection Cable	
From	To
CB1	SB7 (RA1)
CB1	SB2 (RA2)

2

CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE TO BE REMOVED BY THE CONTRACTOR.
3. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. GRAYSHADE REPRESENTS EXISTING.
   BOLD REPRESENTS ITEMS TO BE REMOVED.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- Y YIELD SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
USH 45/STH 36 & CTH H
CITY OF FRANKLIN
MILWAUKEE COUNTY

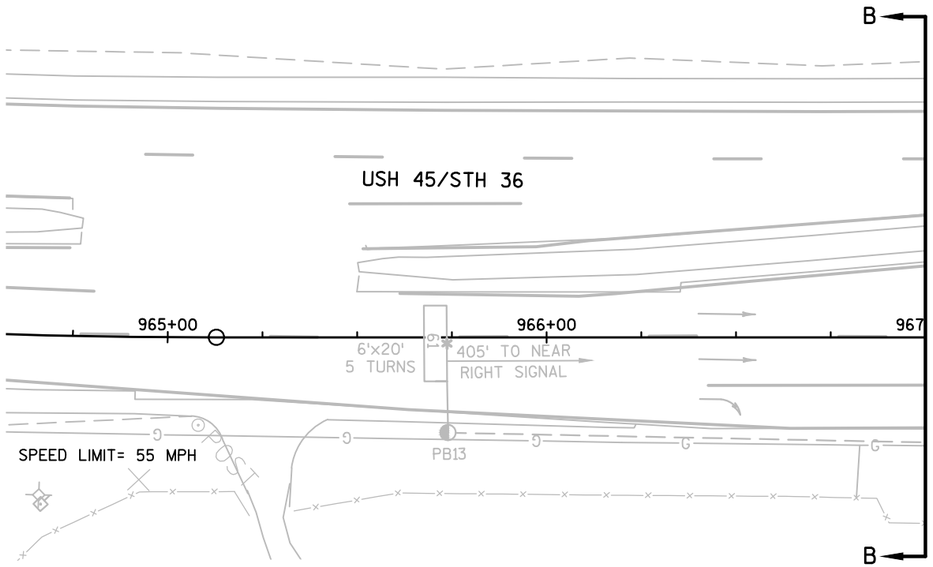
SIGNAL NO. S40-1238

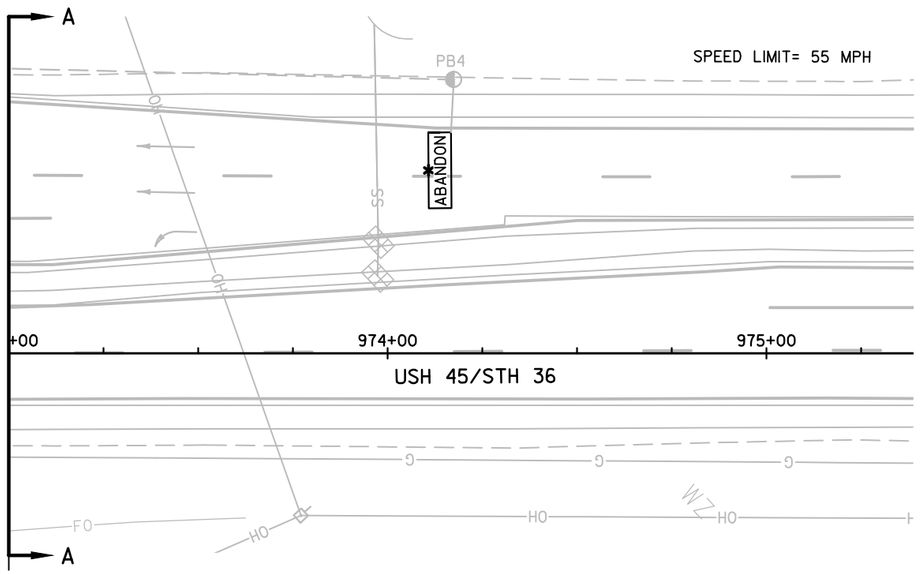
REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 1 OF 2

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 129	E

2





TRAFFIC CONTROL SIGNAL
USH 45/STH 36 & CTH H
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO. S40-1238

REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 2 OF 2

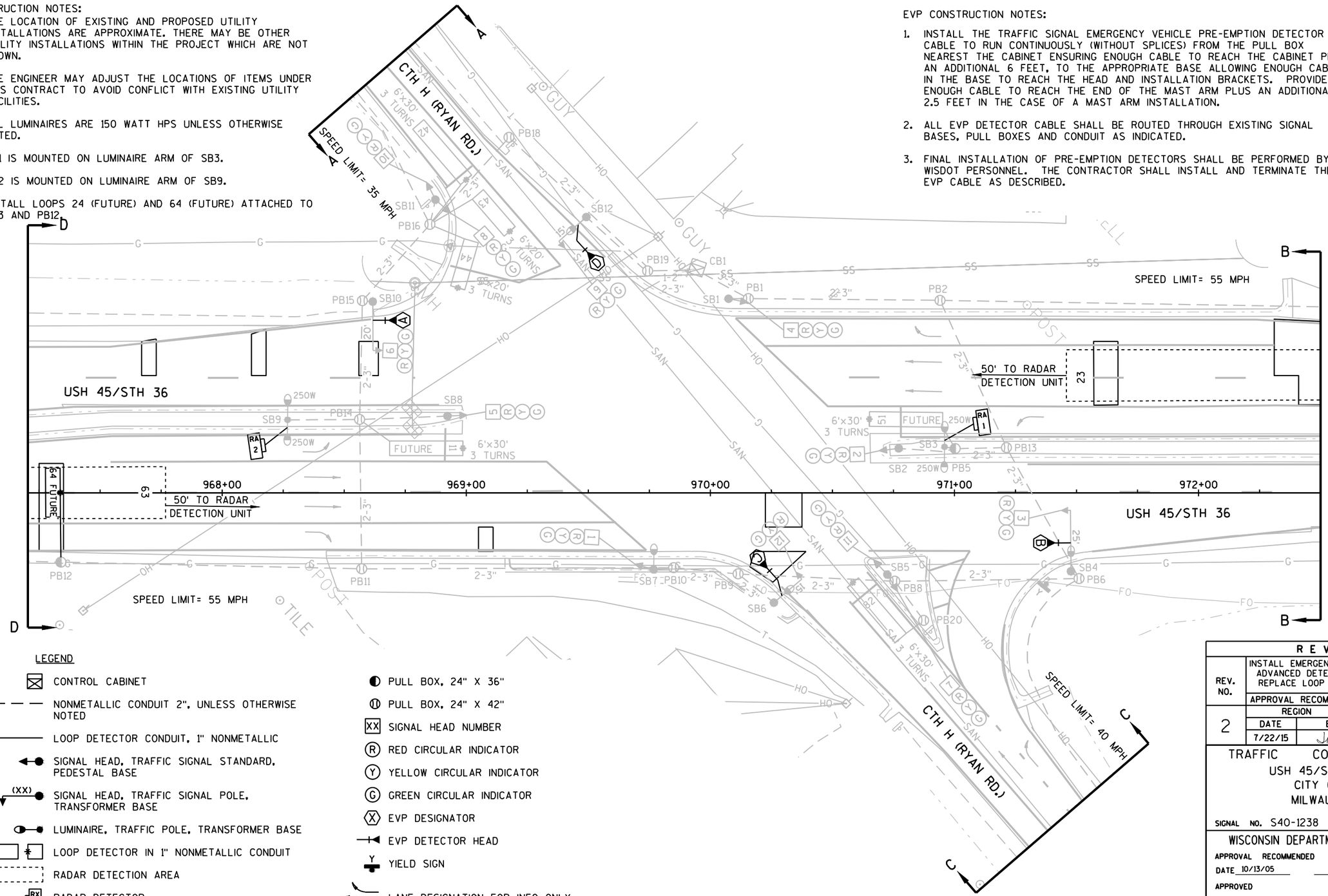
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 130	E

CONSTRUCTION NOTES:

1. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
3. ALL LUMINAIRES ARE 150 WATT HPS UNLESS OTHERWISE NOTED.
4. RA1 IS MOUNTED ON LUMINAIRE ARM OF SB3.
5. RA2 IS MOUNTED ON LUMINAIRE ARM OF SB9.
6. INSTALL LOOPS 24 (FUTURE) AND 64 (FUTURE) ATTACHED TO PB3 AND PB12.

EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE PULL BOX NEAREST THE CABINET ENSURING ENOUGH CABLE TO REACH THE CABINET PLUS AN ADDITIONAL 6 FEET, TO THE APPROPRIATE BASE ALLOWING ENOUGH CABLE IN THE BASE TO REACH THE HEAD AND INSTALLATION BRACKETS. PROVIDE ENOUGH CABLE TO REACH THE END OF THE MAST ARM PLUS AN ADDITIONAL 2.5 FEET IN THE CASE OF A MAST ARM INSTALLATION.
2. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH EXISTING SIGNAL BASES, PULL BOXES AND CONDUIT AS INDICATED.
3. FINAL INSTALLATION OF PRE-EMPTION DETECTORS SHALL BE PERFORMED BY WISDOT PERSONNEL. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- RADAR DETECTION AREA
- RX RADAR DETECTOR
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD
- Y YIELD SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION FIELD CHANGES - ASBUILT

REVISION				
REV. NO.	INSTALL EMERGENCY VEHICLE PREEMPTION & RADAR ADVANCED DETECTION; UPDATE DETECTOR LOGIC; REPLACE LOOP 21, 24 (FUTURE) & 64 (FUTURE)			
	APPROVAL RECOMMENDED		APPROVED	
2	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY
	7/22/15	JMM	7/23/15	

TRAFFIC CONTROL SIGNAL
USH 45/STH 36 & CTH H
CITY OF FRANKLIN
MILWAUKEE COUNTY
SIGNAL NO. S40-1238
CABINET TYPE: TS1
CONTROLLER TYPE: EPAC

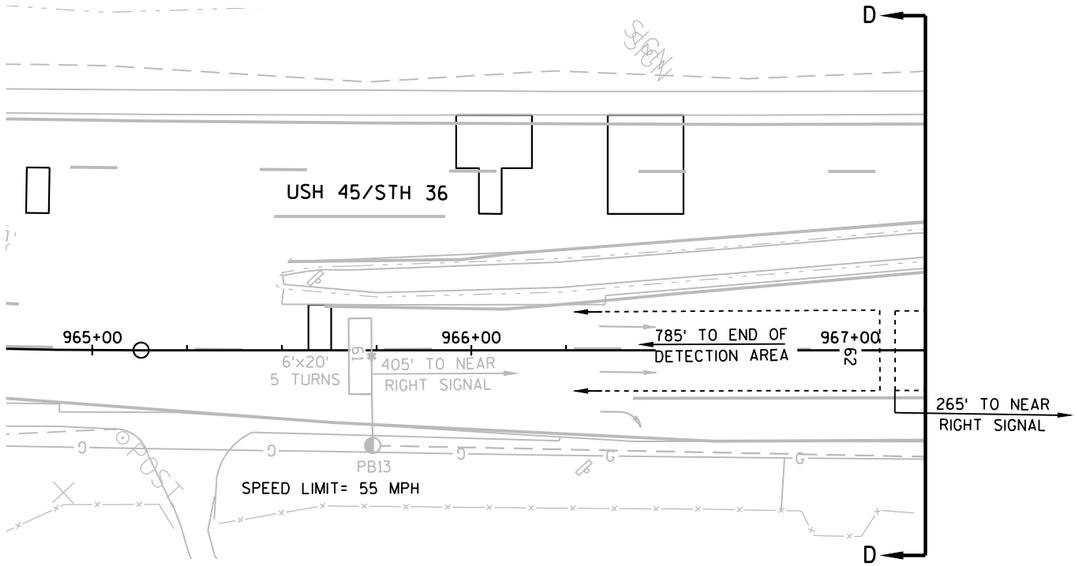
WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVAL RECOMMENDED
DATE 10/13/05 — DEBRA EVERS, REGION TRAFFIC ENGINEER
APPROVED
DATE 11/9/05 — WILLIAM C GILDING, STATE TRAFFIC ENGINEER

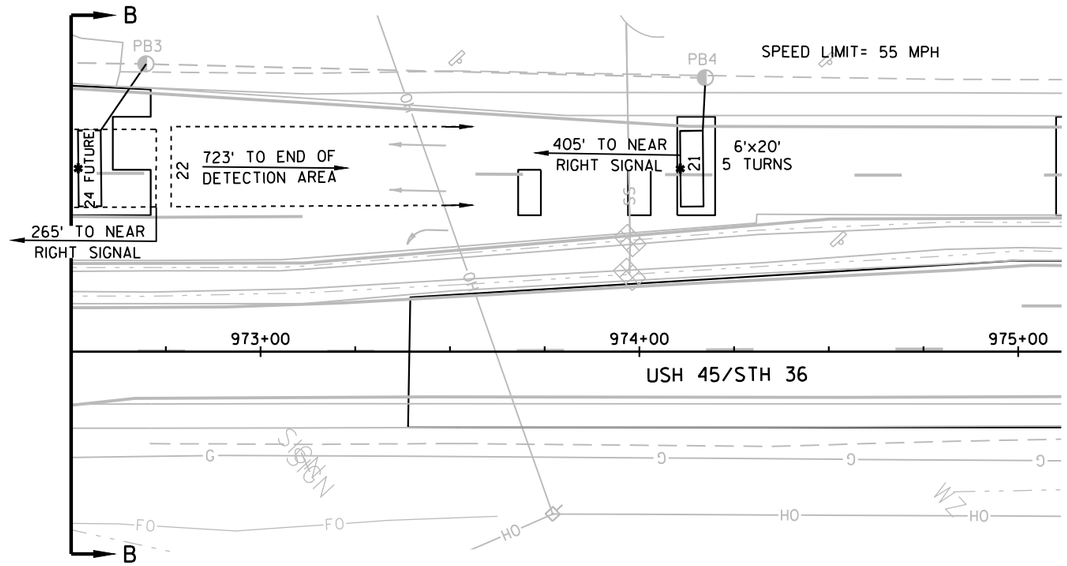
REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL PLAN	SHEET 131 E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIG\S40-1238\S40-1238_C.DWG
LAYOUT NAME - 024002_SP
PLOT DATE : 7/23/2015 2:21 PM
PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2





TRAFFIC CONTROL SIGNAL
USH 45/STH 36 & CTH H
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO. S40-1238

REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 2 OF 4

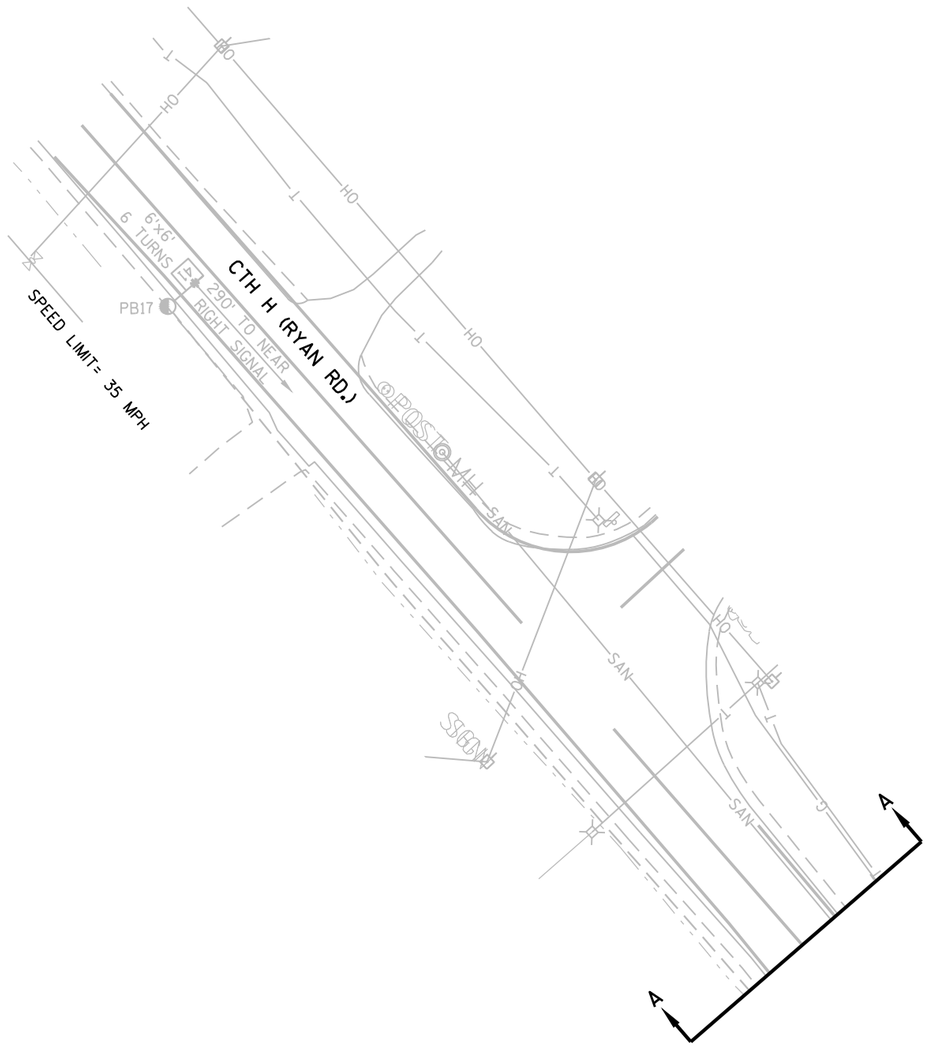
PROJECT NO:2240-13-60	HWY: STH 36	COUNTY:RAC/WAU/MIL	TRAFFIC SIGNAL PLAN	SHEET 132	E

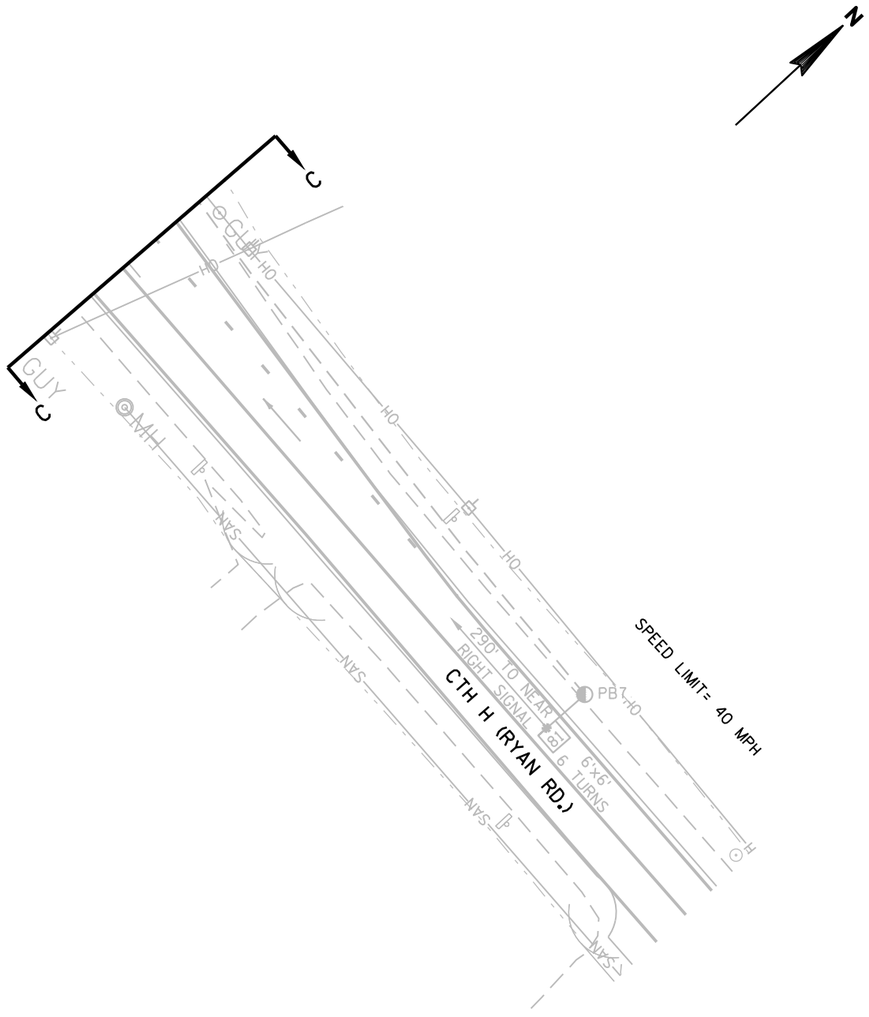
FILE NAME : N:\PDS\C3D\CAD\22401330\SIG\S40-1238\S40-1238_C.DWG
LAYOUT NAME - 024002_SP (2)

PLOT DATE : 7/23/2015 2:21 PM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME :

PLOT SCALE : 1 IN:40 FT

2





TRAFFIC CONTROL SIGNAL
USH 45/STH 36 & CTH H
CITY OF FRANKLIN
MILWAUKEE COUNTY

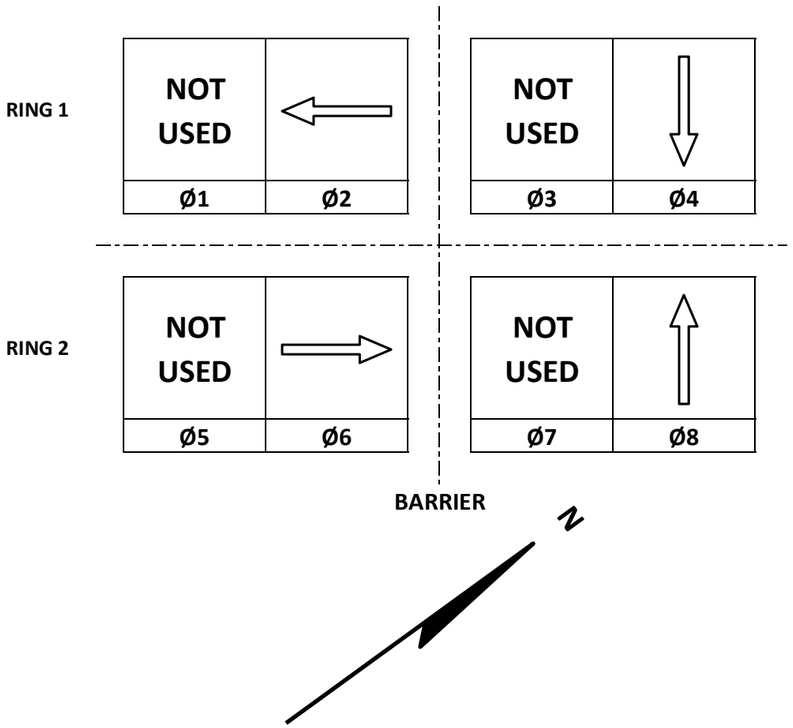
SIGNAL NO. S40-1238

REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 3 OF 4

PROJECT NO:2240-13-60	HWY: STH 36	COUNTY:RAC/WAU/MIL	TRAFFIC SIGNAL PLAN	SHEET 133	E

	HEAD NUMBERS	FLASH
Ø1		
Ø2	4,5,6	R
Ø3		
Ø4	10,11,12	R
Ø5		
Ø6	1,2,3	R
Ø7		
Ø8	7,8,9	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLA		
OLB		
OLC		
OLD		



DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
11	FUTURE									6'X30'	3
21	1			X		2			X	6'X20'	5
22/23				X		2				RADAR	
41	2			X		4			X	6'X6'	6
42	3	X			4	4		X		6'X30'	3
43	3	X			4	4		X		6'X20'	3
44	4	X			4	4		X		6'X20'	3
51	FUTURE									6'X30'	3
61	5			X		6			X	6'X20'	5
62/63				X		6				RADAR	
81	6			X		8			X	6'X6'	6
82	7	X			8	8		X		6'X30'	3
24	FUTURE									6'X20'	5
64	FUTURE									6'X20'	4

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MIN	X
3				
4		8		X
5				
6	X	2	MIN	X
7				
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	← →	← →	↓ ↑	↓ ↑
PHASE	2+6	6+2	4+8	8+4

AFTER PREEMPTION SEQUENCE 2+6 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 4+8.

USH 45/STH 36 & CTH H
CITY OF FRANKLIN
MILWAUKEE COUNTY
SIGNAL NO: S40-1238 CABINET TYPE: TS1
CONTROLLER TYPE: EPAC
DATE: 5/15 PAGE NO. 4 OF 4

FILE NAME : \\WKERTOVFILPI01\n3public\SPO\Operations\Signals\Databases\Signal Intersection Files\S40-1238\PLANS\TS1.pptm PLOT DATE : 5/12/2015 11:00AM PLOT BY : WOLFORD, DERRIN PLOT NAME : _____ PLOT SCALE : 1:1

PROJECT ID:	2240-13-60
INTERSECTION:	USH 45/STH 36 & CTH H

EVP Cable	
From	To
CB1	SB10 (HEAD A)
CB1	SB4 (HEAD B)
CB1	SB6 (HEAD C)
CB1	SB12 (HEAD D)

Radar Detection Cable	
From	To
CB1	SB3 (RA1)
CB1	SB9 (RA2)

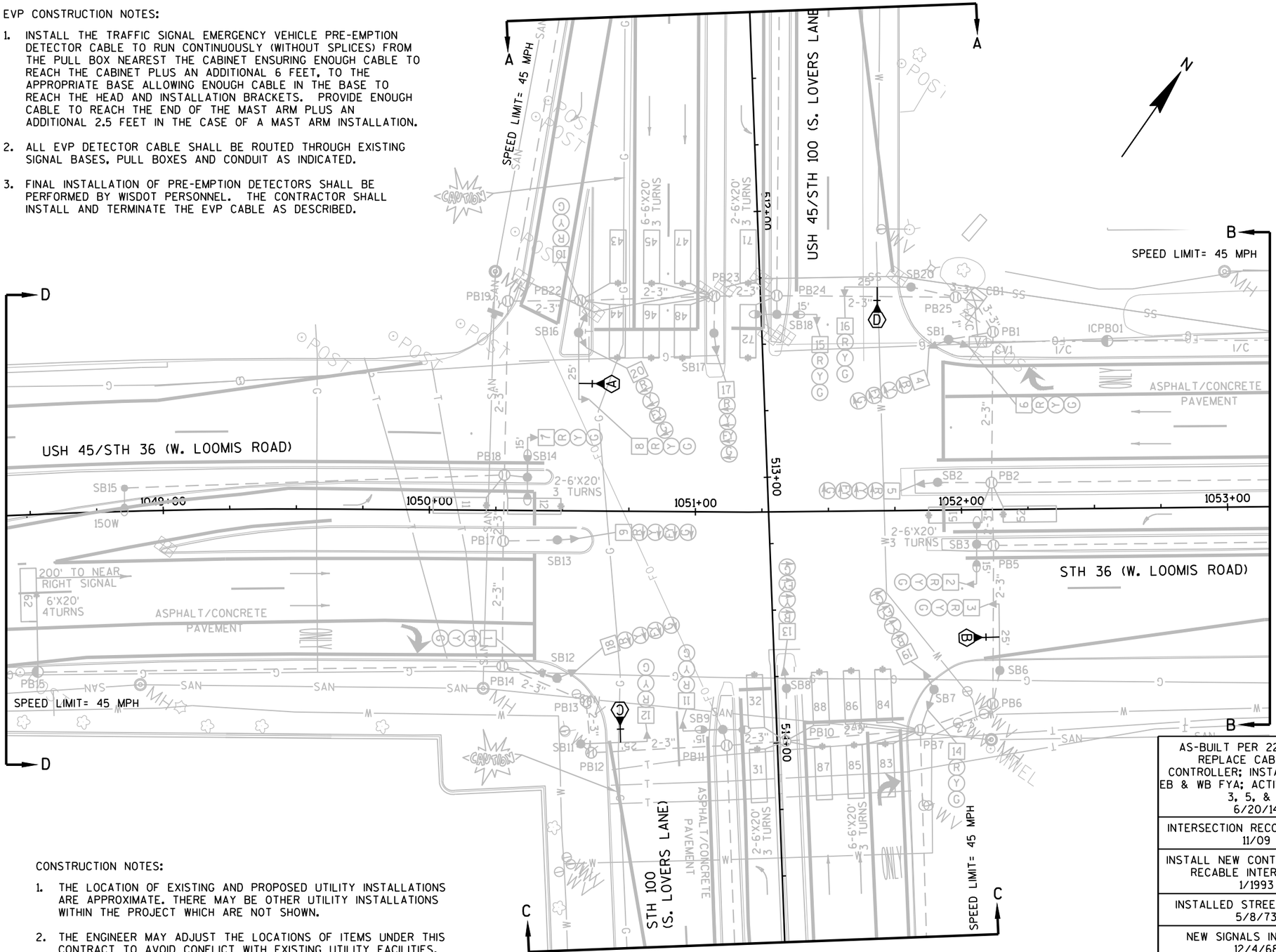
2

EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE PULL BOX NEAREST THE CABINET ENSURING ENOUGH CABLE TO REACH THE CABINET PLUS AN ADDITIONAL 6 FEET, TO THE APPROPRIATE BASE ALLOWING ENOUGH CABLE IN THE BASE TO REACH THE HEAD AND INSTALLATION BRACKETS. PROVIDE ENOUGH CABLE TO REACH THE END OF THE MAST ARM PLUS AN ADDITIONAL 2.5 FEET IN THE CASE OF A MAST ARM INSTALLATION.

2. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH EXISTING SIGNAL BASES, PULL BOXES AND CONDUIT AS INDICATED.

3. FINAL INSTALLATION OF PRE-EMPTION DETECTORS SHALL BE PERFORMED BY WISDOT PERSONNEL. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED.



CONSTRUCTION NOTES:

1. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

2. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.

3. ALL LUMINAIRES ARE 250 WATT HPS UNLESS OTHERWISE NOTED.

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY YELLOW ARROW
- G GREEN ARROW
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- Y YIELD SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

AS-BUILT PER 2240-16-70: REPLACE CABINET & CONTROLLER; INSTALL NB, SB, EB & WB FYA; ACTIVATE PHASES 3, 5, & 7
6/20/14

INTERSECTION RECONSTRUCTION
11/09

INSTALL NEW CONTROLLER AND RECABLE INTERSECTION
1/1993

INSTALLED STREET LIGHTING
5/8/73

NEW SIGNALS INSTALLED
12/4/68

FAR RIGHT SIGNALS ADDED
12/11/64

INITIAL INSTALL
3/1964

REVISION

REV. NO.	INSTALL EMERGENCY VEHICLE PREEMPTION			
	APPROVAL RECOMMENDED		APPROVED	
7	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY
	7/22/15	JMM	7/23/15	JB

TRAFFIC CONTROL SIGNAL
STH 36 & STH 100 (S. LOVER'S LANE)
CITY OF FRANKLIN
MILWAUKEE COUNTY
SIGNAL NO. S40-1076 CABINET TYPE: TS2 CONTROLLER TYPE: ECONOLITE

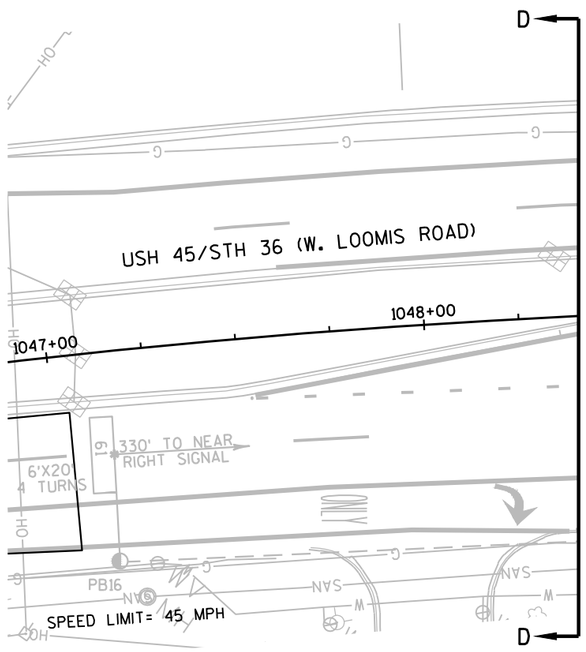
WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVAL RECOMMENDED
DATE 10/7/83 JOHN A. WHITE, REGION TRAFFIC ENGINEER
APPROVED
DATE 12/12/84 H. O. PRICE, STATE TRAFFIC ENGINEER

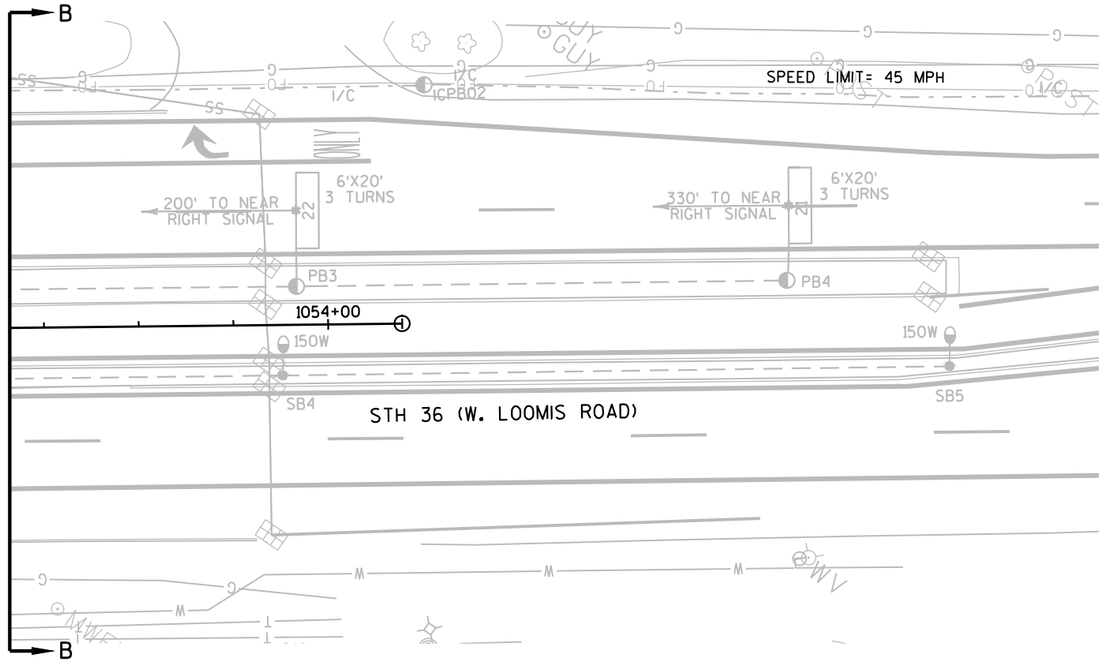
REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL PLAN	SHEET 136	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIG\S40-1076\S40-1076_G.DWG
LAYOUT NAME - 024001_SP
PLOT DATE : 7/23/2015 2:35 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

2





TRAFFIC CONTROL SIGNAL
STH 36 & STH 100 (S. LOVERS LANE)
CITY OF FRANKLIN
MILWAUKEE COUNTY

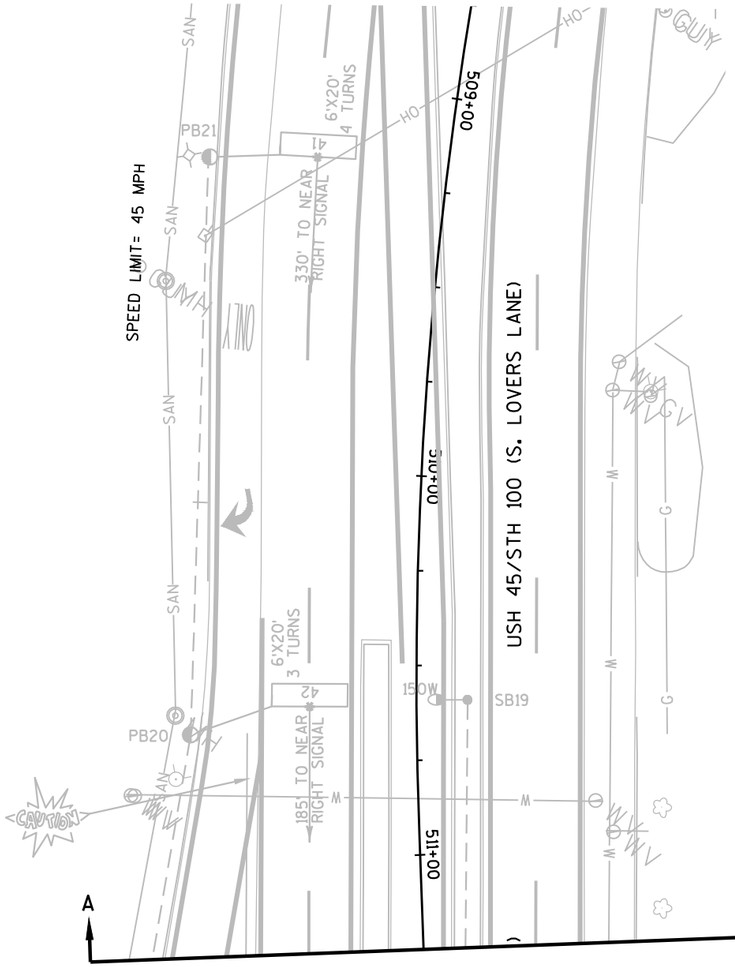
SIGNAL NO. S40-1076

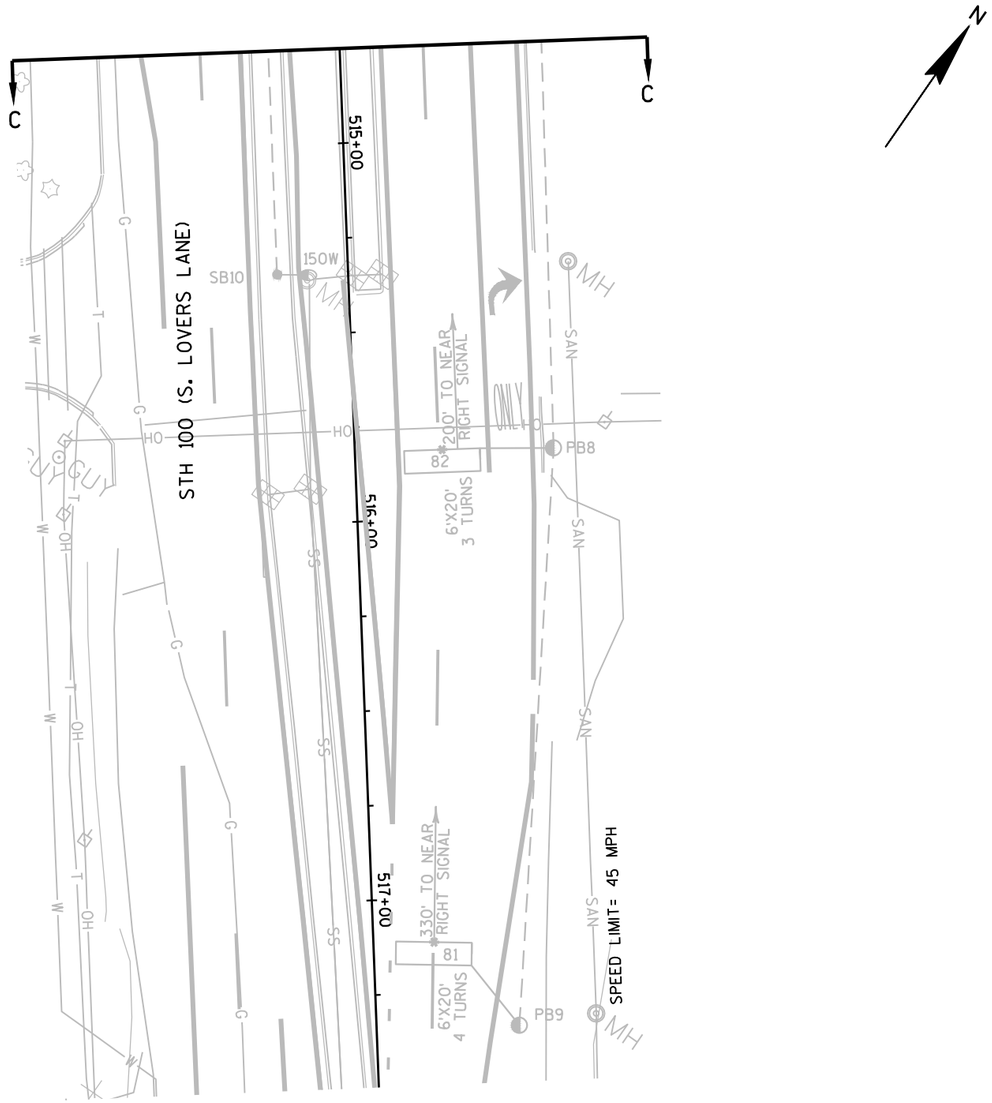
REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 2 OF 4

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL PLAN	SHEET 137	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIG\S40-1076\S40-1076_G.DWG
LAYOUT NAME - 024001_SP (2)
PLOT DATE : 7/23/2015 2:35 PM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42





TRAFFIC CONTROL SIGNAL
STH 36 & STH 100 (S. LOVERS LANE)
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO. S40-1076

REGION CONTACT: D. WOLFORD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 3 OF 4

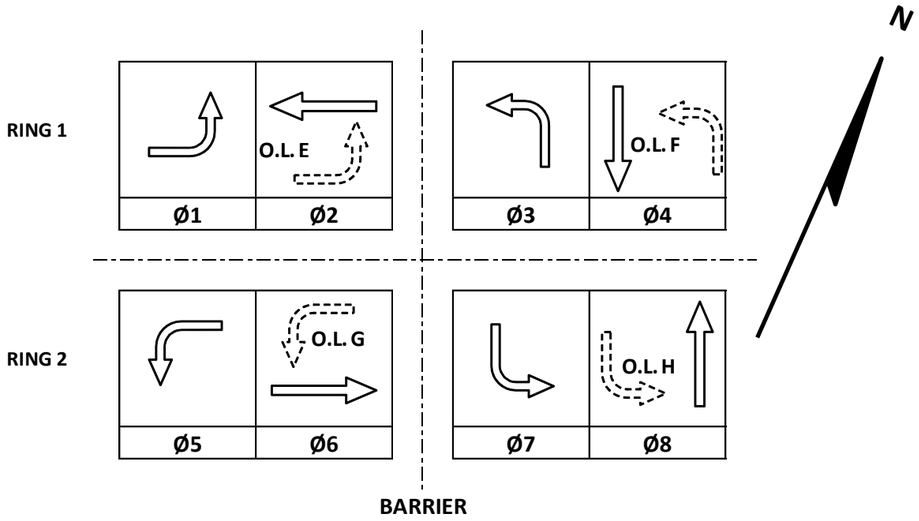
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC SIGNAL PLAN	SHEET 138	E

FILE NAME : N:\PDS\C3D\CAD\22401330\SIG\S40-1076\S40-1076_G.DWG
LAYOUT NAME - 024001_SP (3)

PLOT DATE : 7/23/2015 2:35 PM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5	R ←
Ø2	6,7,8	R
Ø3	17,20	R ←
Ø4	10,11,12	R
Ø5	9,18	R ←
Ø6	1,2,3	R
Ø7	13,19	R ←
Ø8	14,15,16	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLE	4,5	-
OLF	17,20	-
OLG	9,18	-
OLH	13,19	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	41/42	11/12	71/72	45/46	83/84	61/62		87/88
CALLED PHASE	4	1	7	4	8	6		8
CALL OPTION		X	X	X	X	X		X
DELAY TIME					X			
EXTENTION OPTION	X	X	X	X	X	X		X
EXTEND TIME	X							
USE ADDED INITIAL						X		
CROSS SWITCH PHASE		2	8					

19	17	23	21	27	25	31	29	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	43/44	21/22	51/52	47/48	85/86	81/82		31/32
CALLED PHASE	4	2	5	4	8	8		3
CALL OPTION	X	X	X	X	X			X
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X		X
EXTEND TIME						X		
USE ADDED INITIAL		X						
CROSS SWITCH PHASE			6					4

20	18	24	22	28	26	32	30	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

STH 36 & STH 100 (S. LOVER'S LANE)
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO: S40-1076 CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 4/15 PAGE NO. 4 OF 4

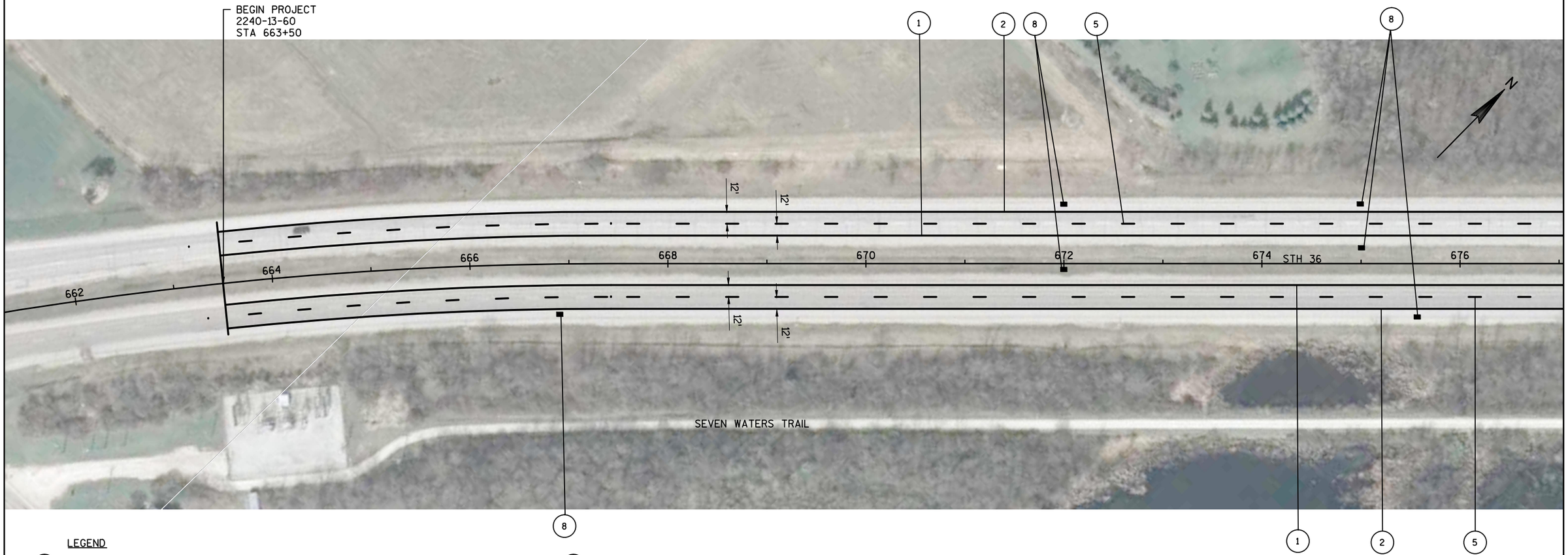
FILE NAME : \\WKERTOVFILPI01\n3public\SPO\Operations\Signals\Databases\Signal Intersection Files\S40-1076\PLANS\Econolite SEQ.pptm PLOT DATE : 4/21/2015 1:20PM PLOT BY : WOLFORD, DERRIN PLOT NAME : _____ PLOT SCALE : 1:1

PROJECT ID:	2240-13-60
INTERSECTION:	STH 36 (W. LOOMIS RD) & STH 100 (S. LOVERS LN)

EVP Cable	
From	To
CB1	SB16 (HEAD A)
CB1	SB6 (HEAD B)
CB1	SB11 (HEAD C)
CB1	SB20 (HEAD D)

2

2

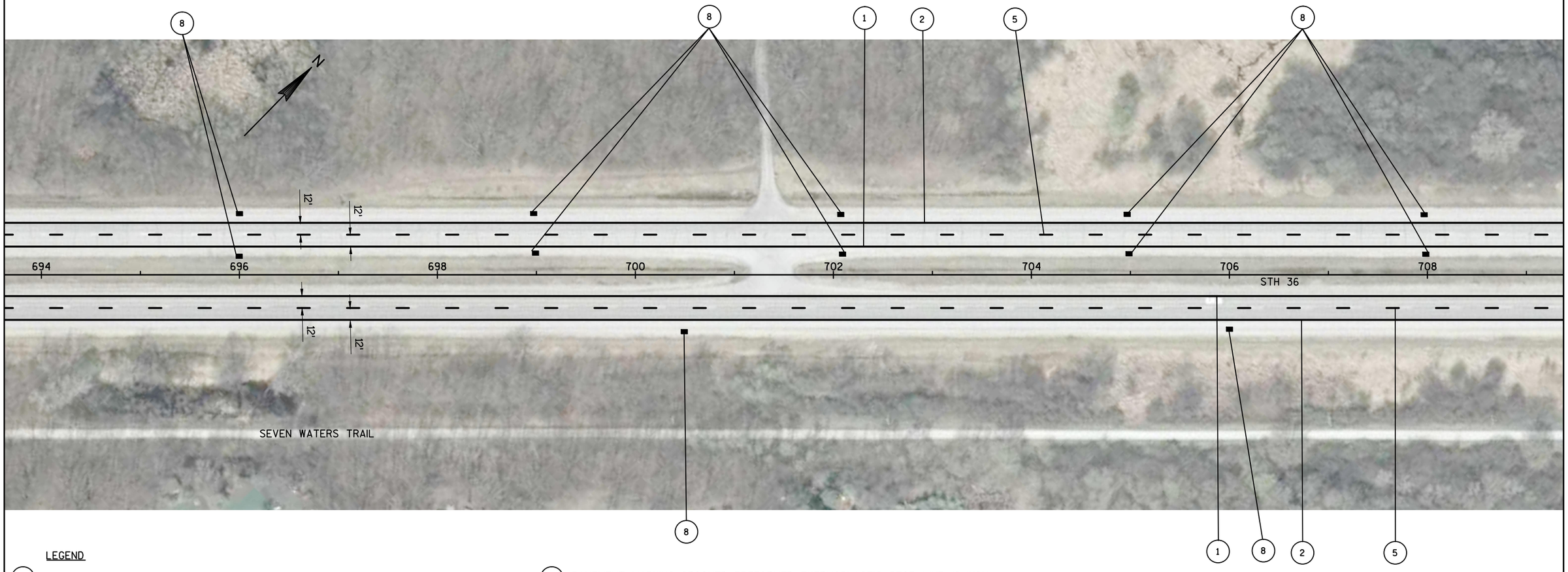


LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (12.5' LINE, WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, WHITE)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
8. PAVEMENT MARKING OUTFALL
9. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP LINE 18-INCH
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
13. PAVEMENT MARKING CURB EPOXY
14. PAVEMENT MARKING ISLAND NOSE EPOXY
15. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET 141	E

2



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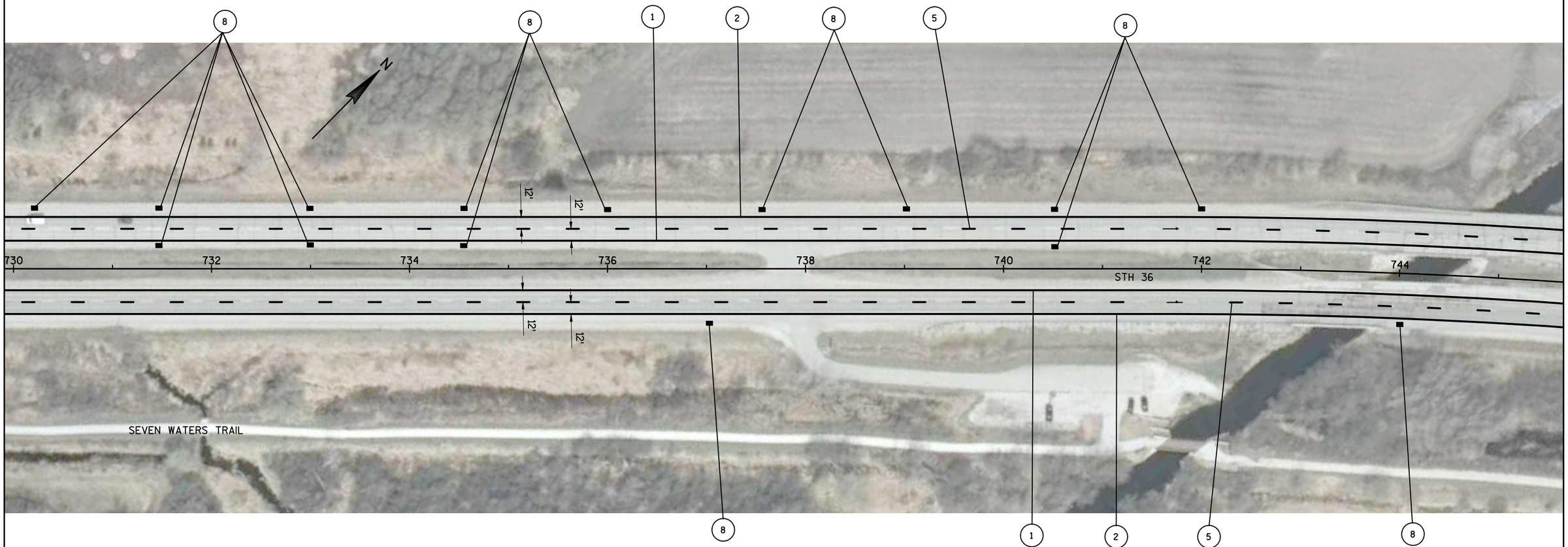
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET 142	E

2



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PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\024501_PM.DWG
LAYOUT NAME - (05)_PM

PLOT DATE : 8/17/2015 4:48 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : _____ PLOT SCALE : **********

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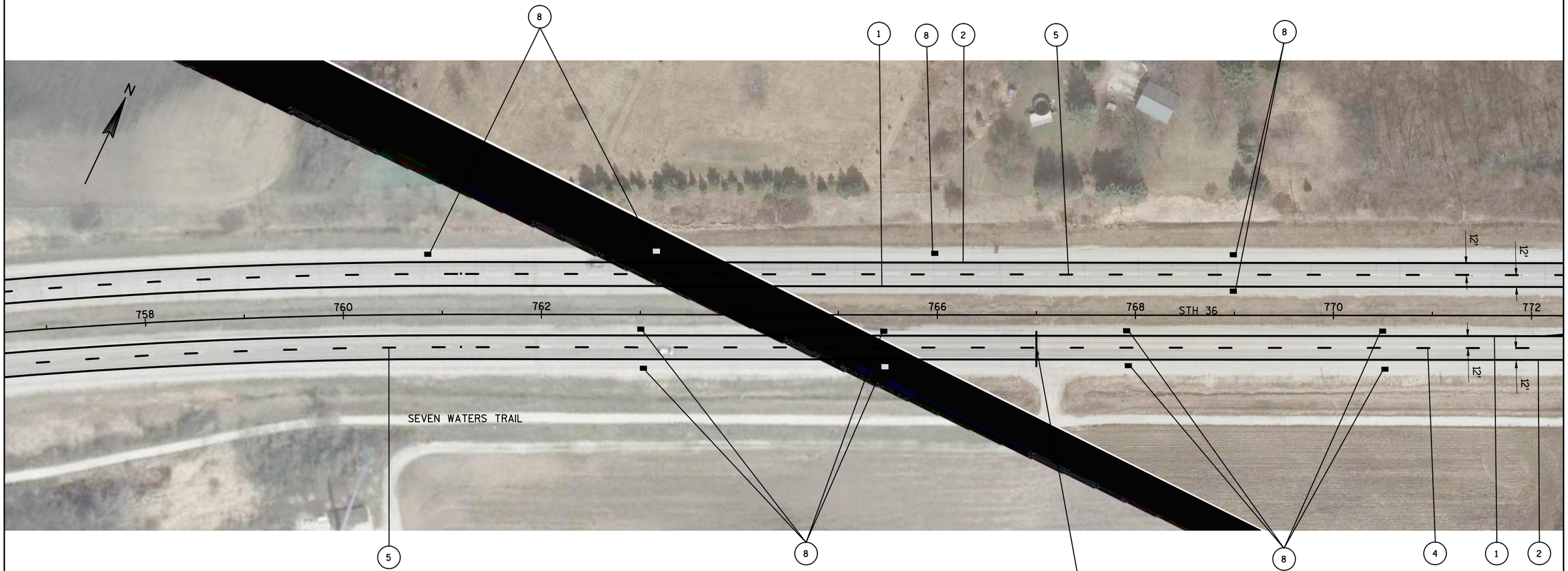

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15. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH

PAVING LIMITS
STA 767+00
END 5
BEGIN 4

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET 144	E

2

2

LEGEND

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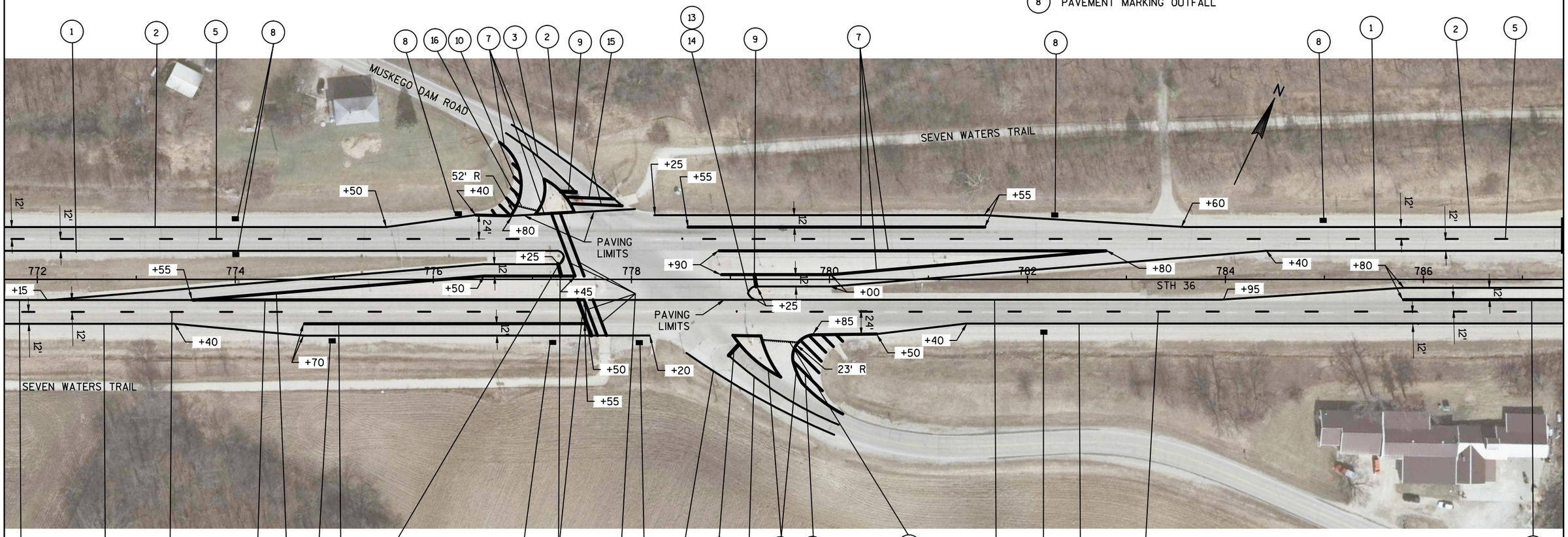

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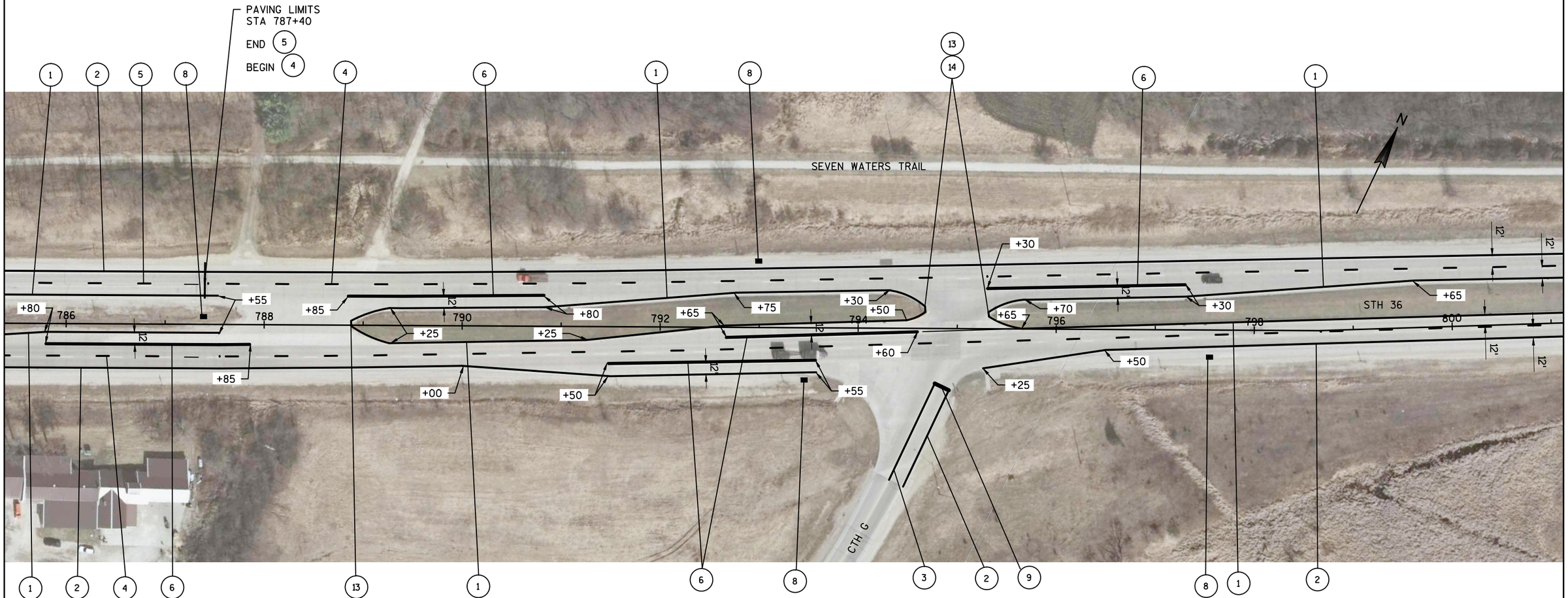
14. PAVEMENT MARKING ISLAND NOSE EPOXY
15. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH
16. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC YIELD LINE SYMBOLS 18-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\024501_PM.DWG
LAYOUT NAME - (08)_PM
PLOT DATE : 8/17/2015 4:48 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2



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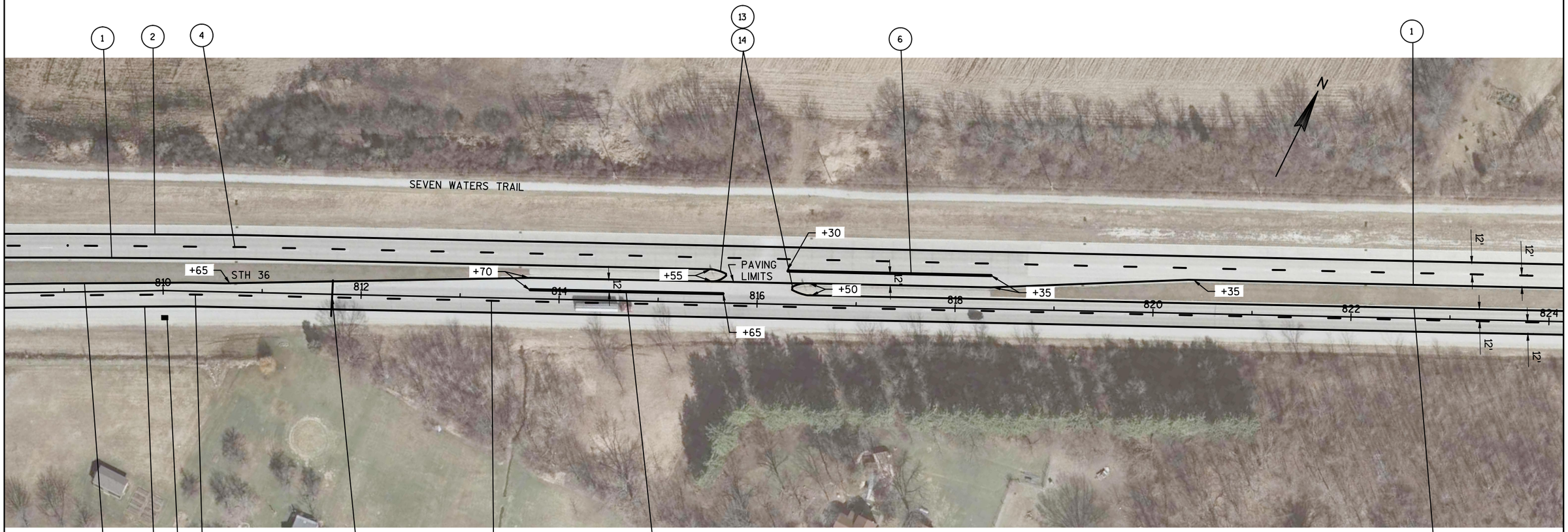
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET 146	E

2



PAVING LIMITS
STA 811+70

END (4)

BEGIN (5)

LEGEND

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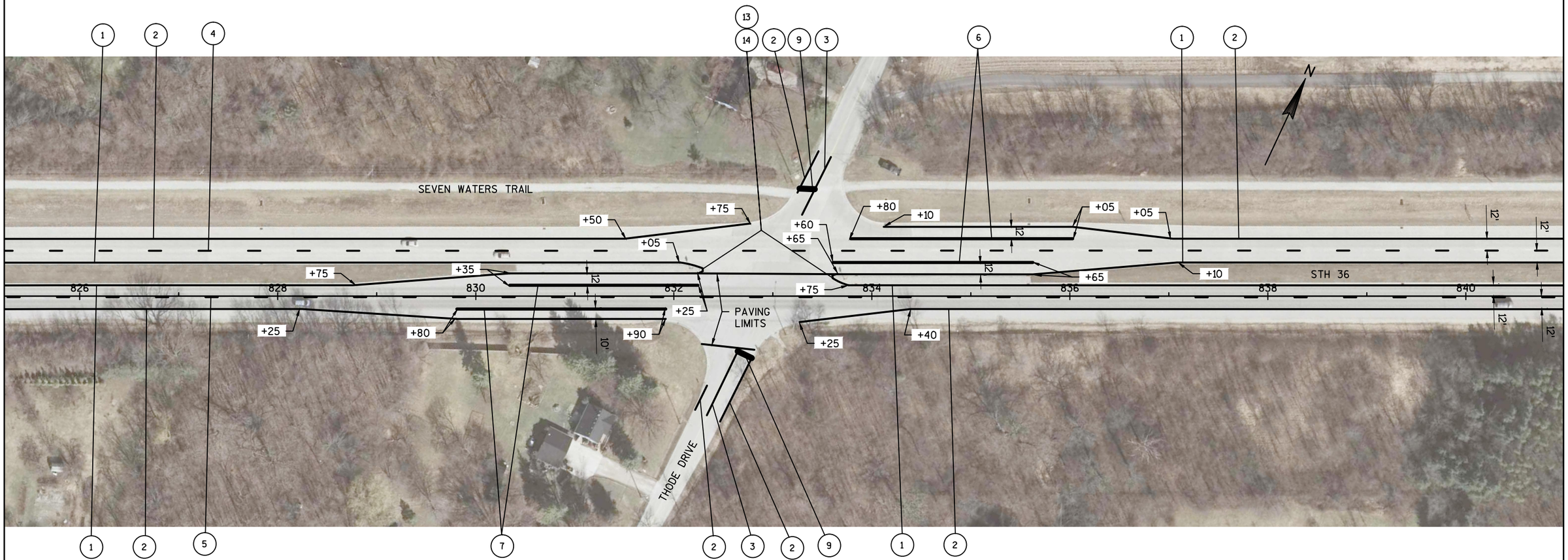
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET 147	E

2



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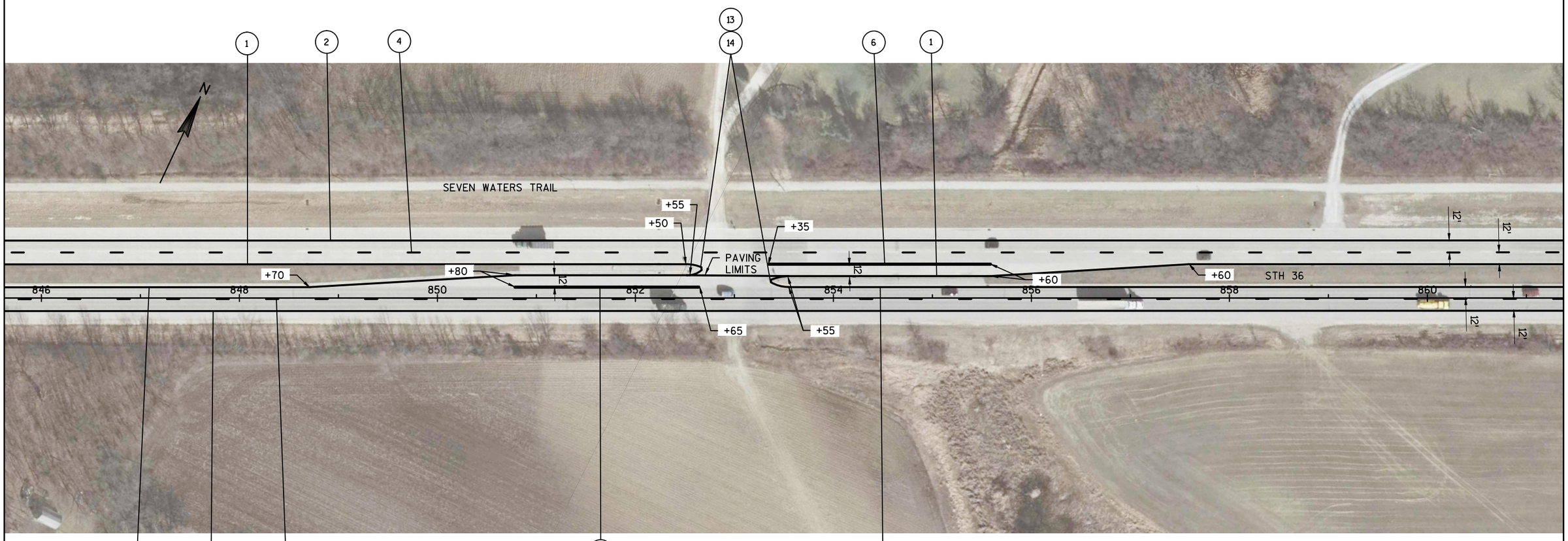
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET 148	E

2



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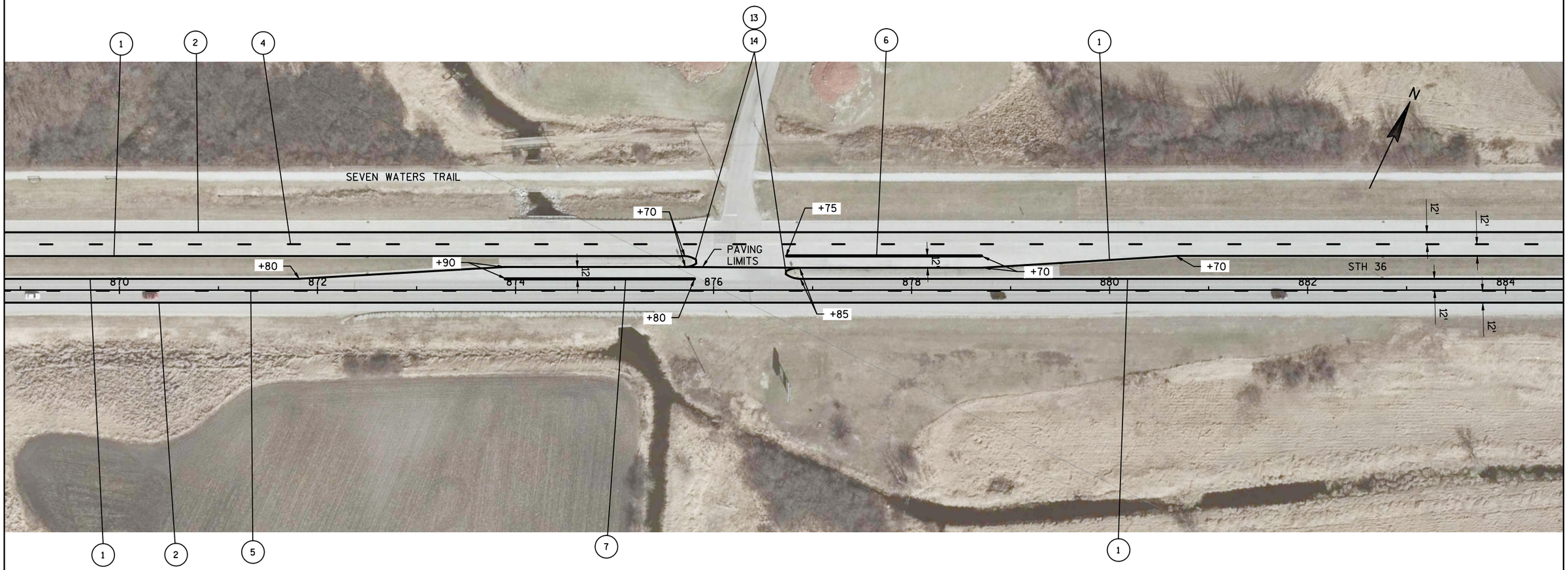
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET 149	E

2



LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (12.5' LINE, WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, WHITE)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
8. PAVEMENT MARKING OUTFALL
9. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP LINE 18-INCH
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
13. PAVEMENT MARKING CURB EPOXY
14. PAVEMENT MARKING ISLAND NOSE EPOXY
15. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH

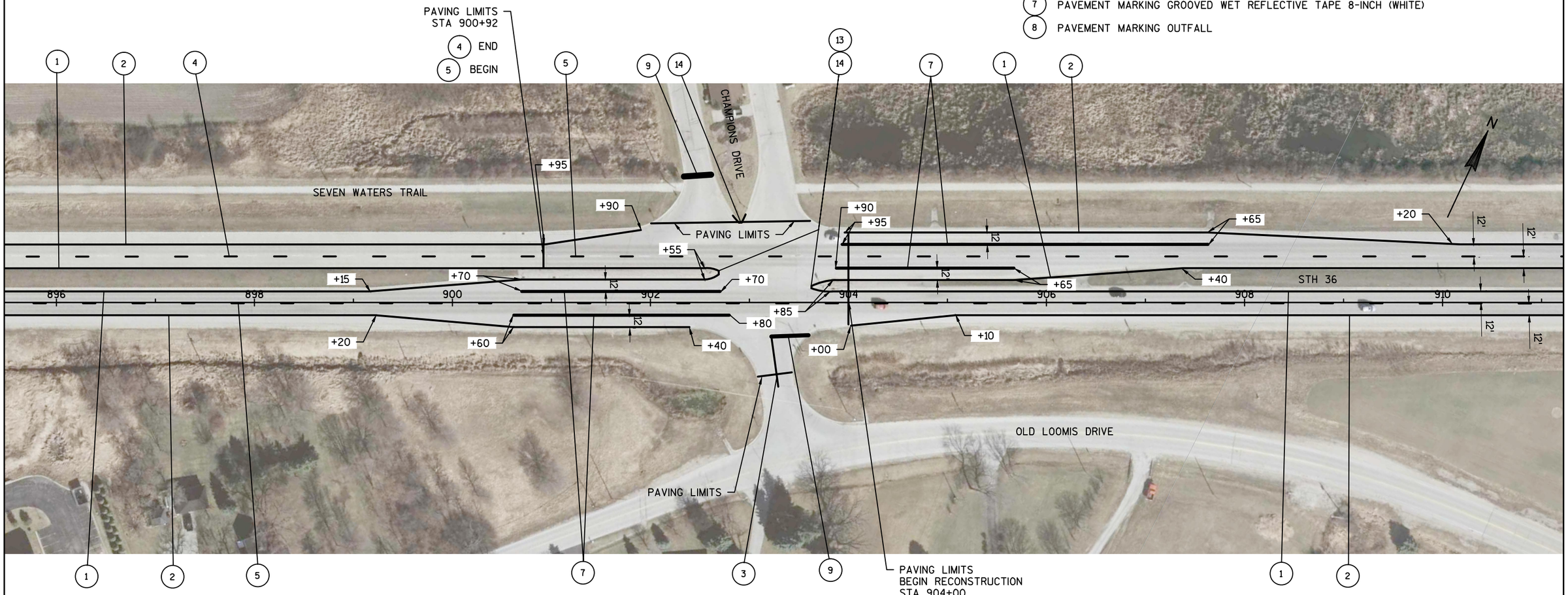
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET 150	E

2

2

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (12.5' LINE, WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, WHITE)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
8. PAVEMENT MARKING OUTFALL



9. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP LINE 18-INCH
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
13. PAVEMENT MARKING CURB EPOXY
14. PAVEMENT MARKING ISLAND NOSE EPOXY
15. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH

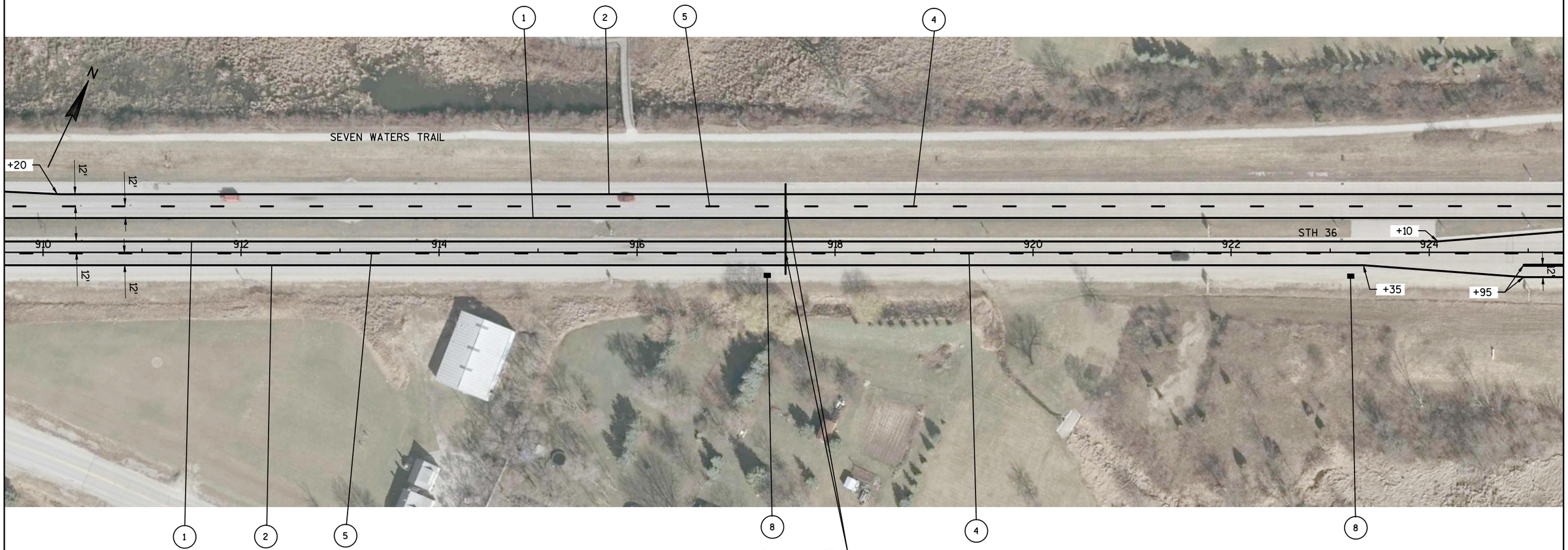
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET 151	E

2

2

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (12.5' LINE, WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, WHITE)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
8. PAVEMENT MARKING OUTFALL



9. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP LINE 18-INCH
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
13. PAVEMENT MARKING CURB EPOXY
14. PAVEMENT MARKING ISLAND NOSE EPOXY
15. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH

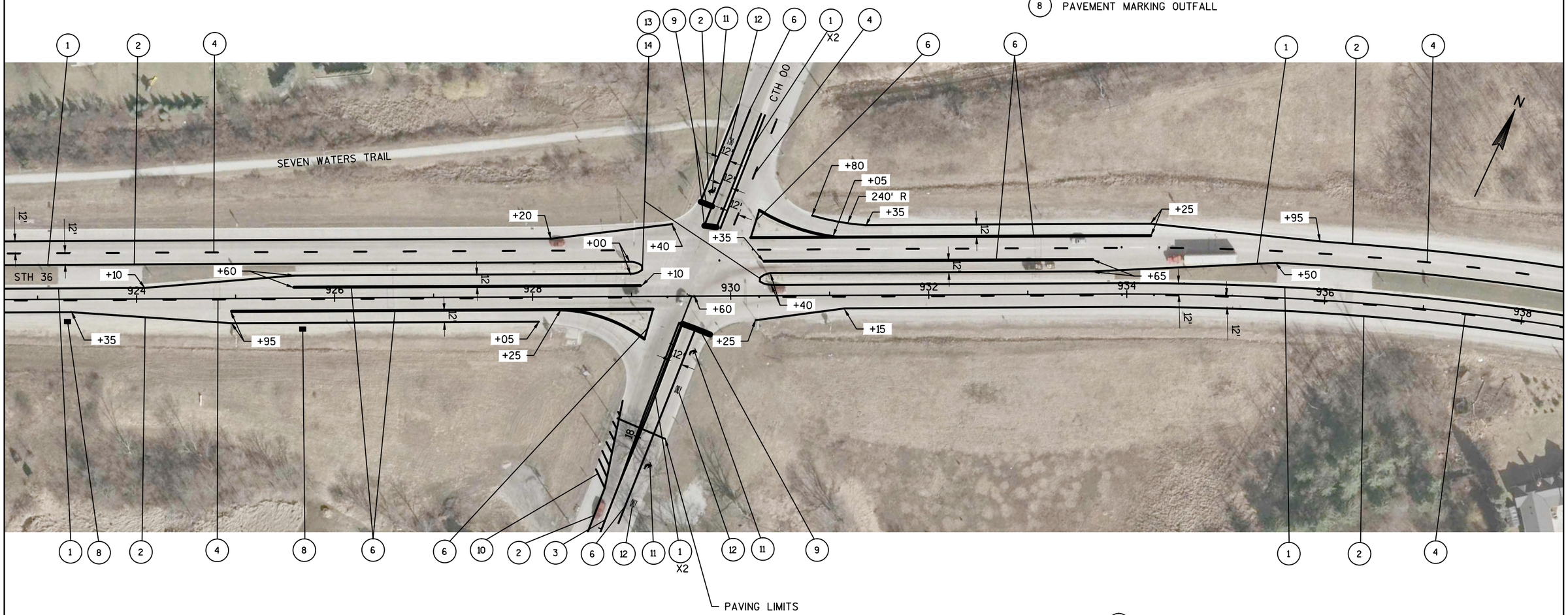
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET 152	E

2

2

LEGEND

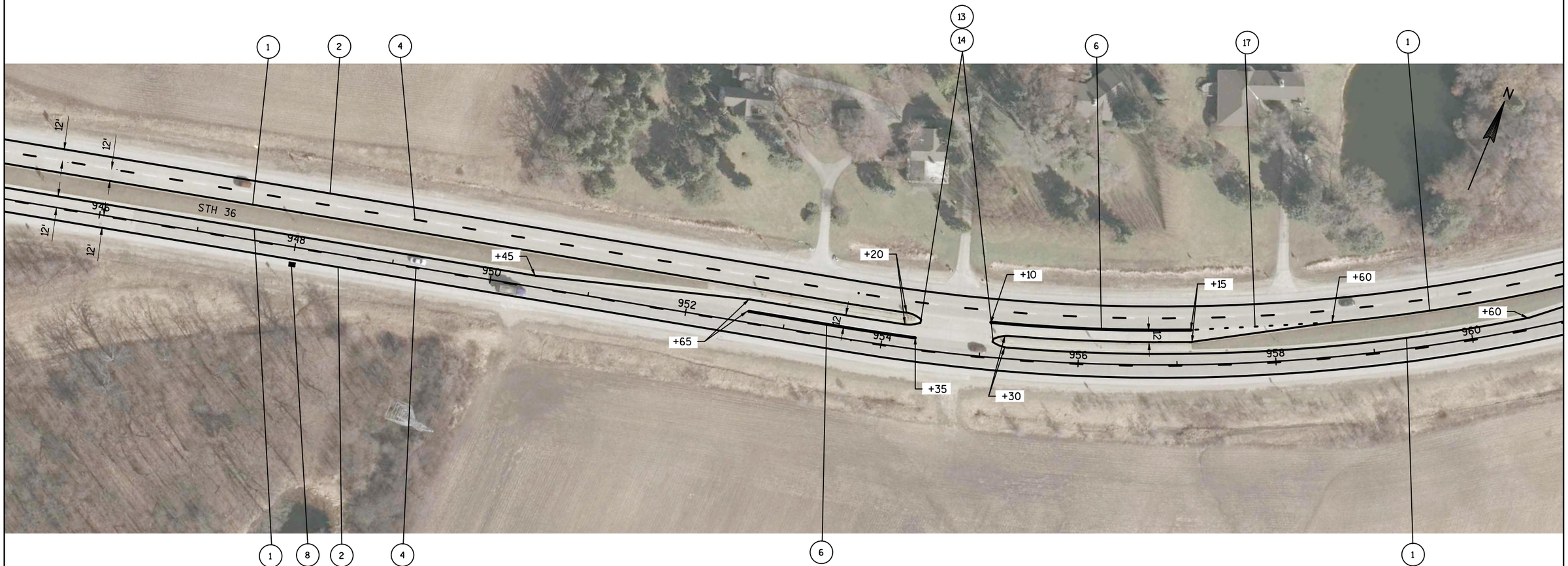
1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (12.5' LINE, WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, WHITE)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
8. PAVEMENT MARKING OUTFALL



9. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP LINE 18-INCH
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
13. PAVEMENT MARKING CURB EPOXY
14. PAVEMENT MARKING ISLAND NOSE EPOXY
15. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET 153	E

2



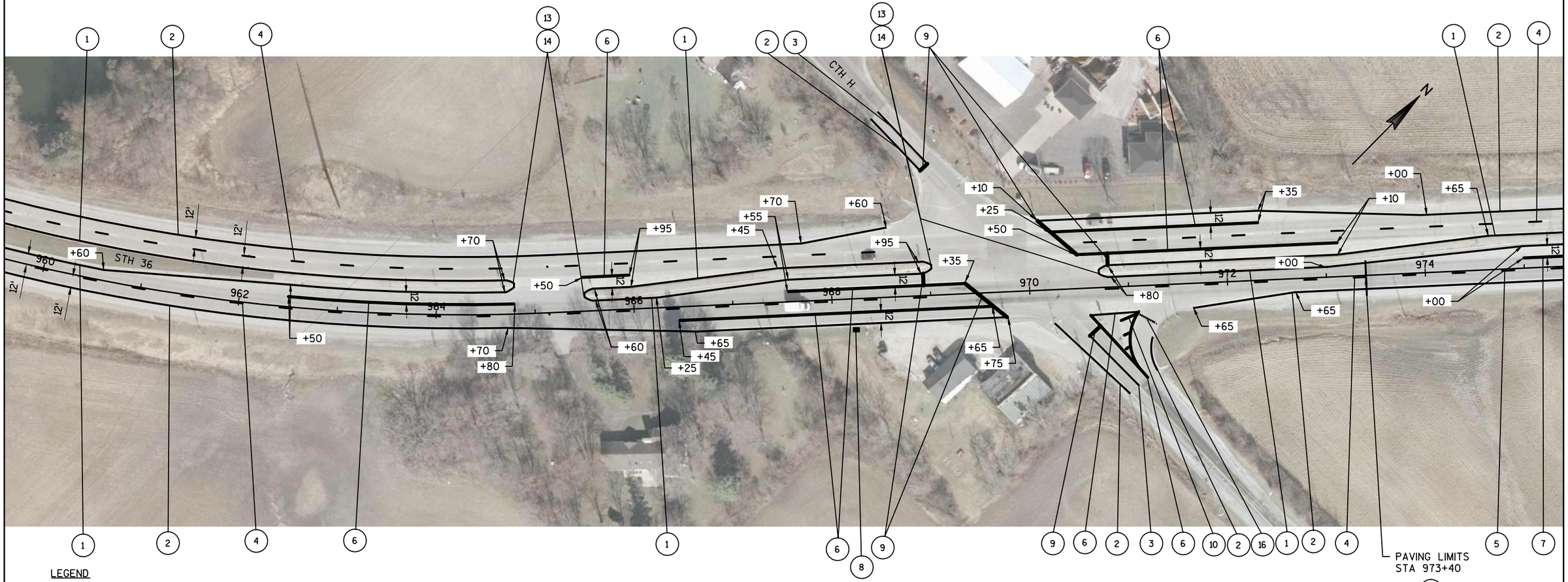
LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (12.5' LINE, WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, WHITE)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
8. PAVEMENT MARKING OUTFALL
9. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP LINE 18-INCH
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
13. PAVEMENT MARKING CURB EPOXY
14. PAVEMENT MARKING ISLAND NOSE EPOXY
15. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH
17. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE) (3' DOT PATTERN 9' GAP)

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET 154	E

FILE NAME : N:\PDS\C3D\CAD\22401330\024502_PM.DWG
LAYOUT NAME - (21)_PM
PLOT DATE : 8/20/2015 10:48 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : _____ PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2



LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (12.5' LINE, WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, WHITE)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
8. PAVEMENT MARKING OUTFALL
9. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP LINE 18-INCH
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12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
13. PAVEMENT MARKING CURB EPOXY
14. PAVEMENT MARKING ISLAND NOSE EPOXY
15. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH
16. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC YIELD LINE SYMBOLS 18-INCH

PAVING LIMITS
STA 973+40

END (4)

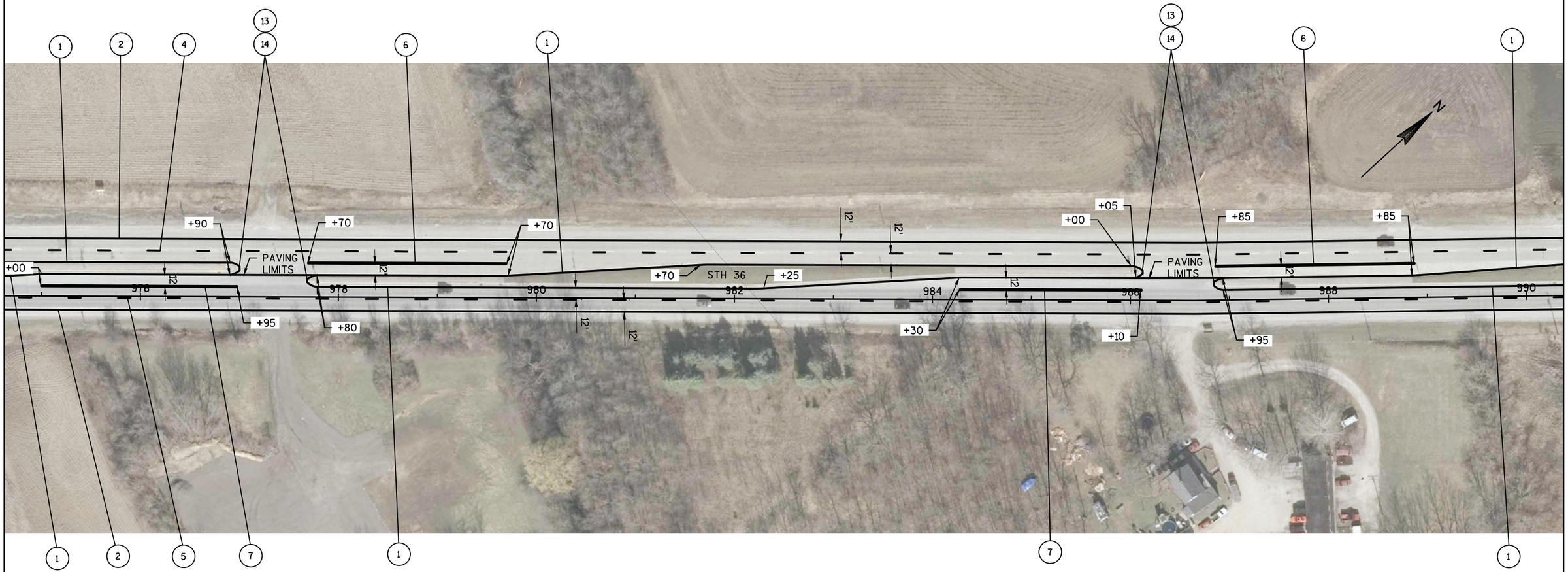
BEGIN (5)

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\024503_PM.DWG
LAYOUT NAME - (22)_PM

PLOT DATE : 8/20/2015 11:40 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : ---------- PLOT SCALE : **********

2



LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (12.5' LINE, WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, WHITE)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)
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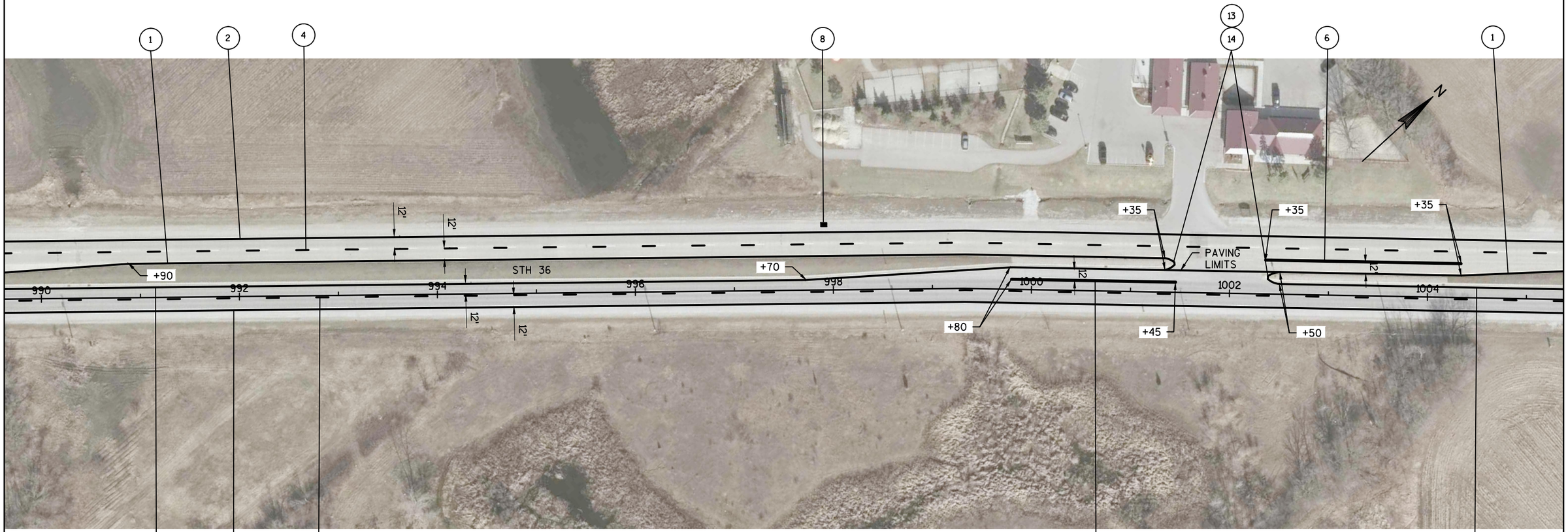
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
13. PAVEMENT MARKING CURB EPOXY
14. PAVEMENT MARKING ISLAND NOSE EPOXY
15. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET 156	E

2



LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (12.5' LINE, WHITE)
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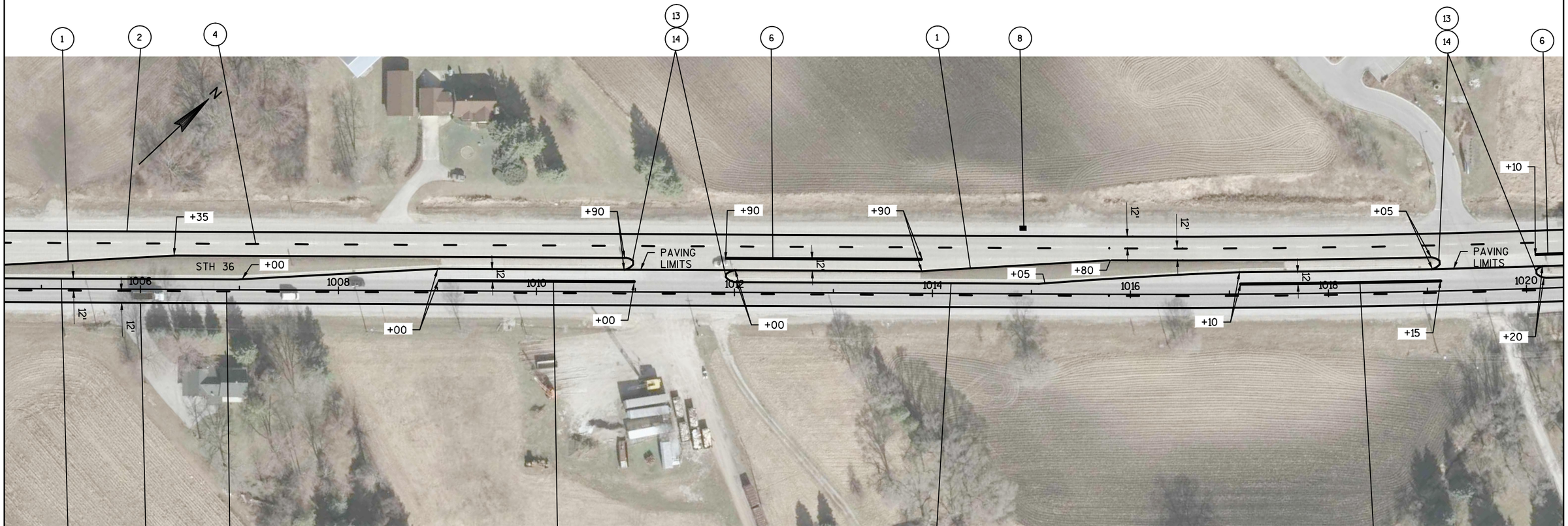
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
13. PAVEMENT MARKING CURB EPOXY
14. PAVEMENT MARKING ISLAND NOSE EPOXY
15. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET 157	E

2



LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (12.5' LINE, WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, WHITE)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
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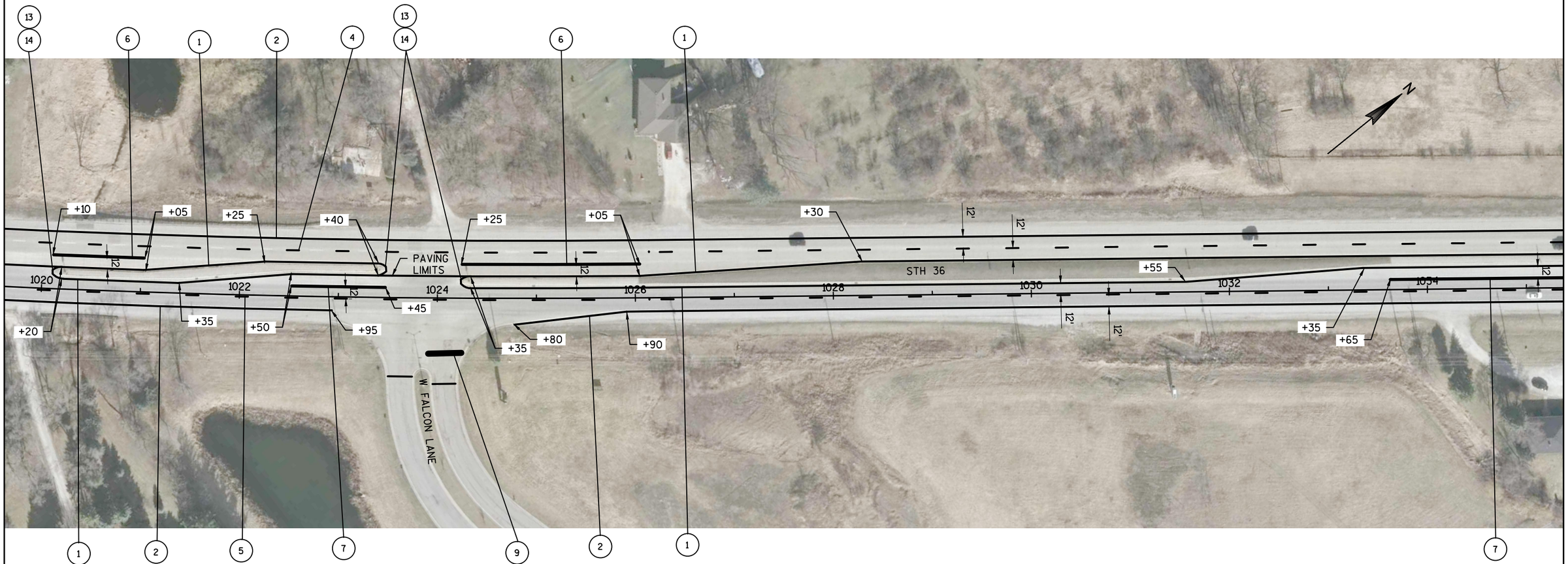
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
13. PAVEMENT MARKING CURB EPOXY
14. PAVEMENT MARKING ISLAND NOSE EPOXY
15. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET 158	E

FILE NAME : N:\PDS\C3D\CAD\22401330\024503_PM.DWG
LAYOUT NAME - (25)_PM
PLOT DATE : 8/20/2015 11:40 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : _____ PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2



LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (12.5' LINE, WHITE)
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12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
13. PAVEMENT MARKING CURB EPOXY
14. PAVEMENT MARKING ISLAND NOSE EPOXY
15. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\024503_PM.DWG
LAYOUT NAME - (26)_PM

PLOT DATE : 8/20/2015 11:40 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : ---------- PLOT SCALE : **********

2

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (12.5' LINE, WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, WHITE)
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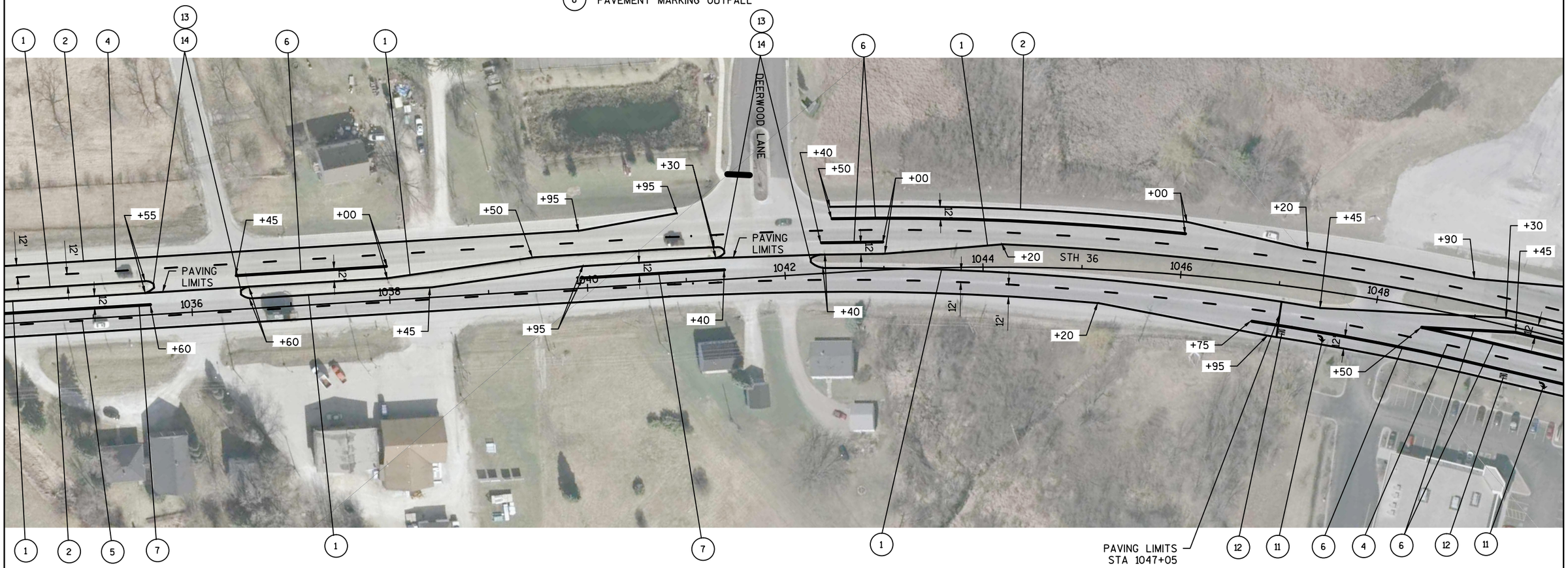
13. PAVEMENT MARKING CURB EPOXY
14. PAVEMENT MARKING ISLAND NOSE EPOXY
15. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH



2

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (12.5' LINE, WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, WHITE)
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12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
13. PAVEMENT MARKING CURB EPOXY
14. PAVEMENT MARKING ISLAND NOSE EPOXY
15. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\024503_PM.DWG
LAYOUT NAME - 024503_PM - (28)_PM

PLOT DATE : 8/20/2015 11:41 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : ---------- PLOT SCALE : **********

WISDOT/CADDS SHEET 42

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (12.5' LINE, WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, WHITE)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)
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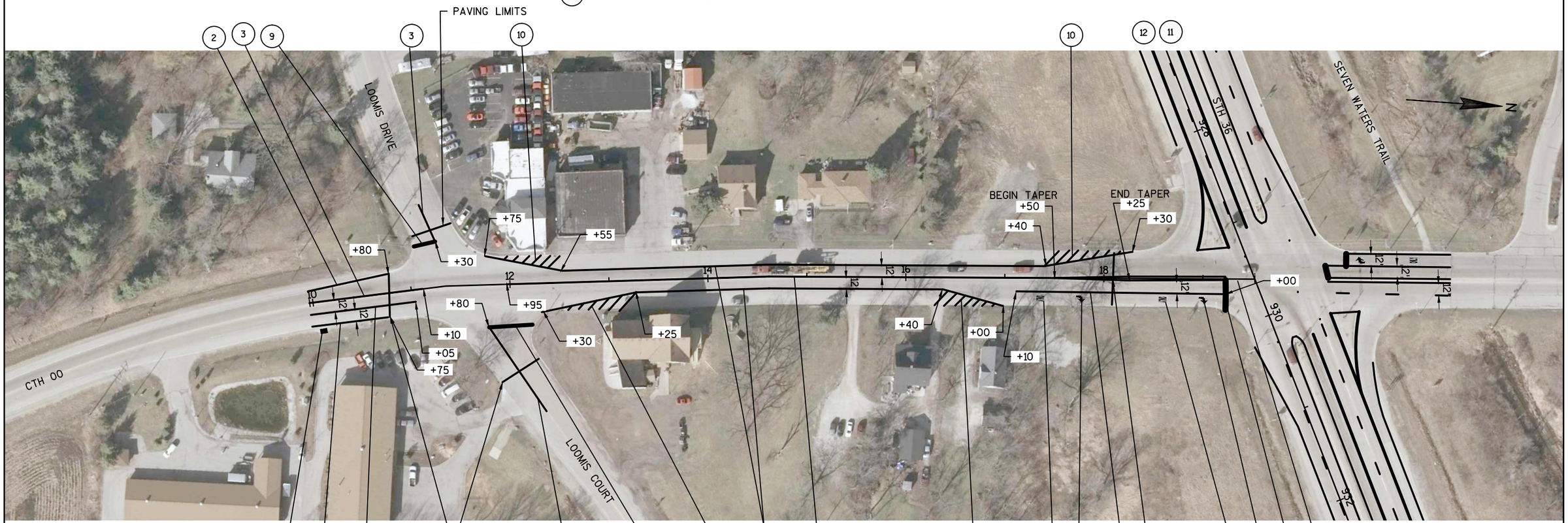
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
13. PAVEMENT MARKING CURB EPOXY
14. PAVEMENT MARKING ISLAND NOSE EPOXY
15. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH

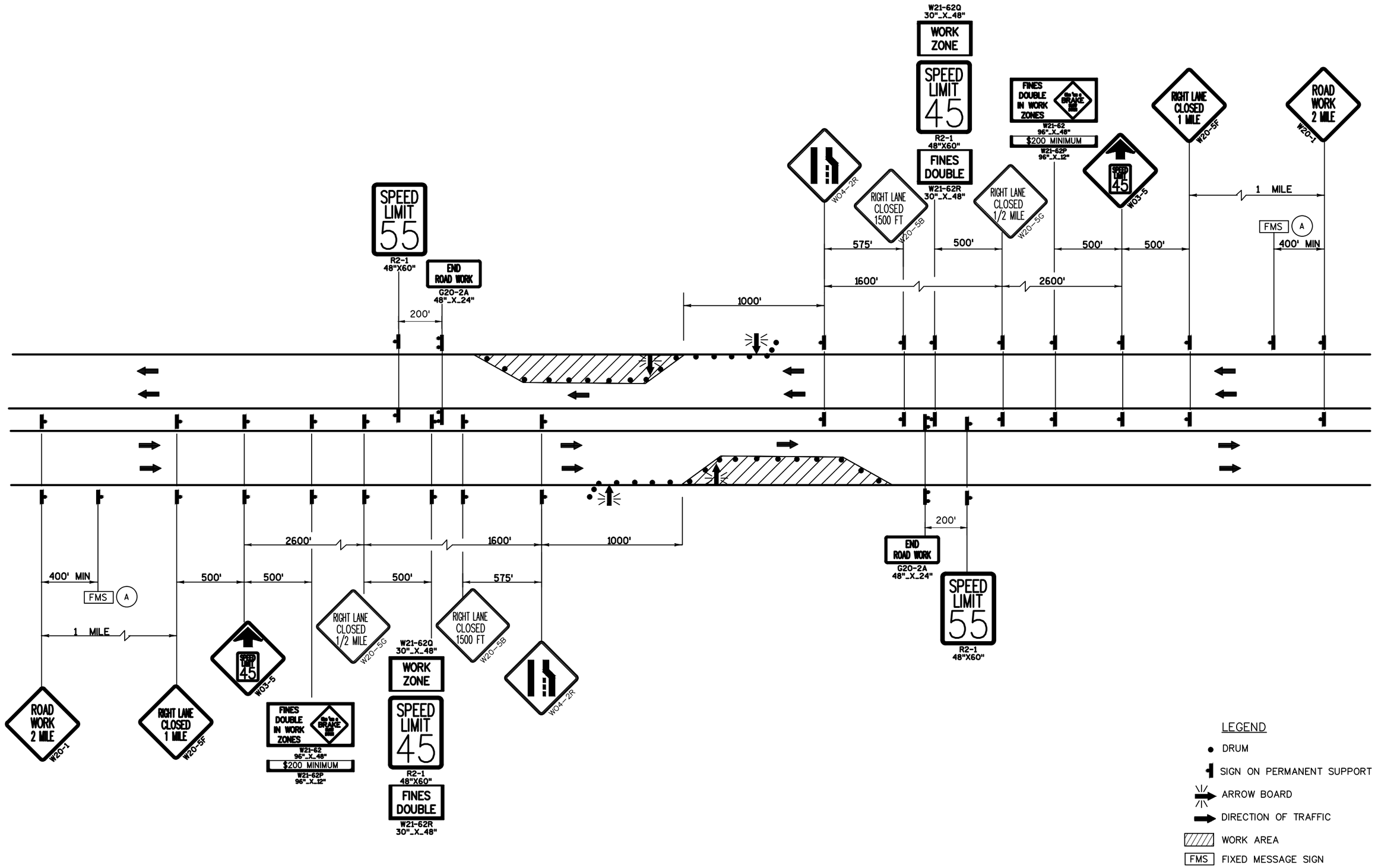


PROJECT NO:2240-13-60	HWY:STH 36	COUNTY:RAC/WAU/MIL	PAVEMENT MARKING - CTH 00/ USH 45	SHEET 162	E

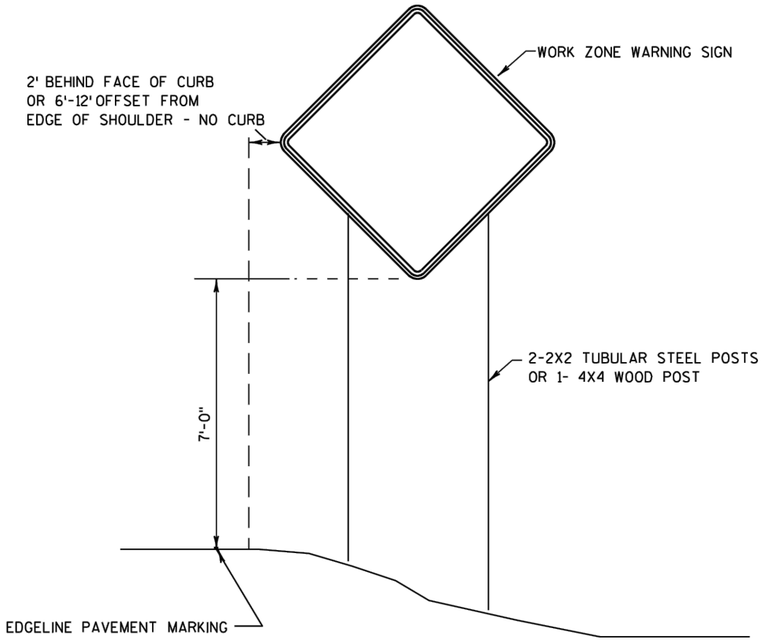
FILE NAME : N:\PDS\C3D\CAD\22401330\024503_PM.DWG
LAYOUT NAME - 024503_PM - (29)_PM

PLOT DATE : 8/20/2015 11:41 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : _____ PLOT SCALE : **********

2

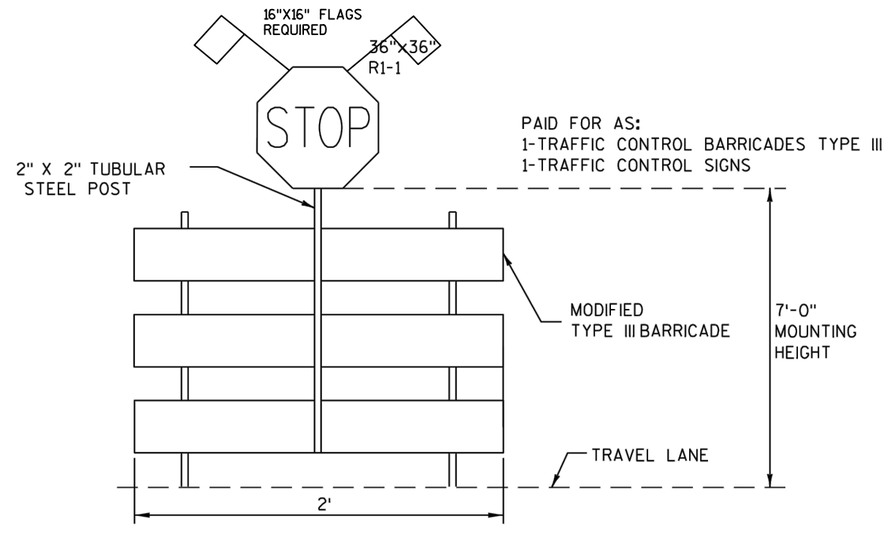


PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TEMPORARY TRAFFIC CONTROL - TEMPORARY SPEED LIMITS	SHEET 163	E



TYPICAL TEMPORARY TRAFFIC CONTROL DETAIL
MOUNTING ON FIXED SUPPORT

LONG TERM
7 DAYS OR MORE



TEMPORARY STOP SIGN

GENERAL NOTES FOR TRAFFIC CONTROL

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.

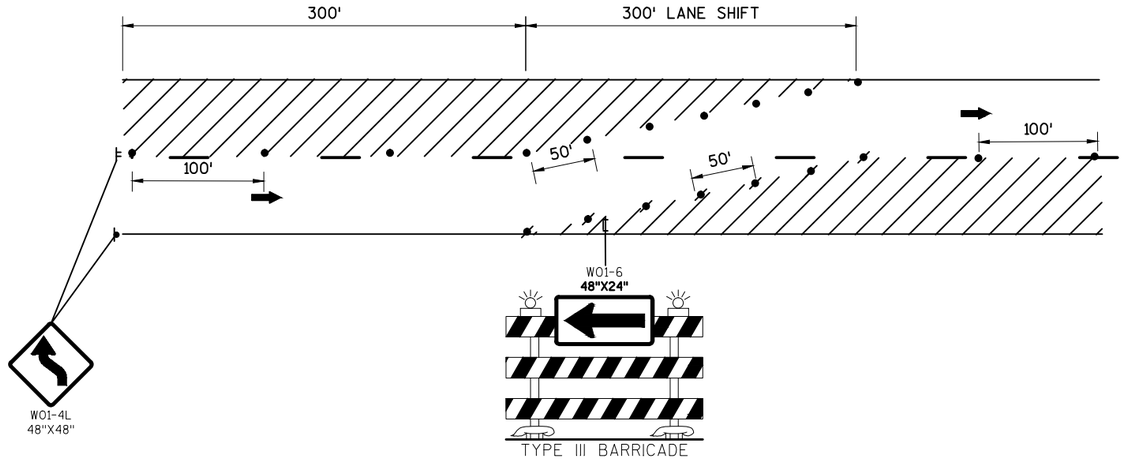
"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE IN PLACE 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.

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.

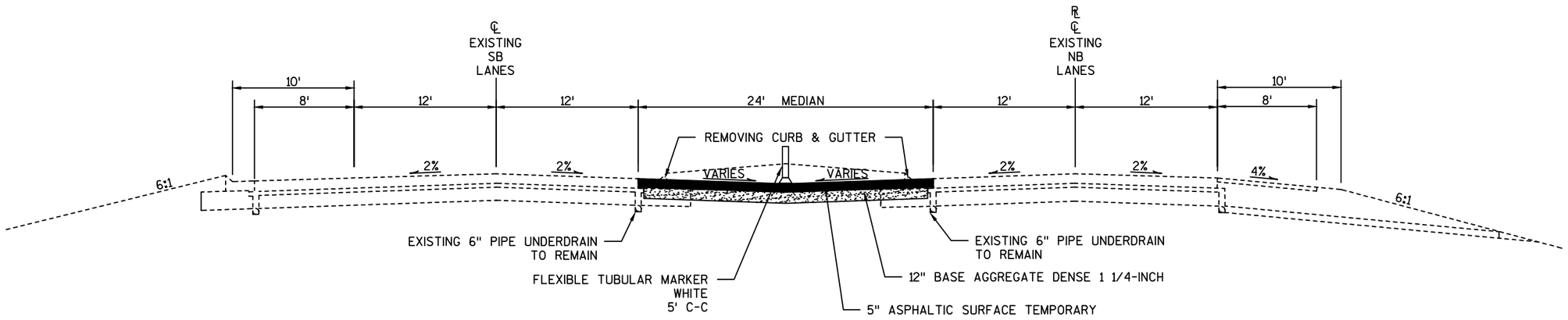
TEMPORARY PAVEMENT MARKING REMOVABLE TAPE SHALL BE CUT THROUGH ITS FULL WIDTH AND THICKNESS OR AT 25-FOOT INTERVALS TO CONTROL RAVELING.



TRANSITION BETWEEN STAGES 1 & 2

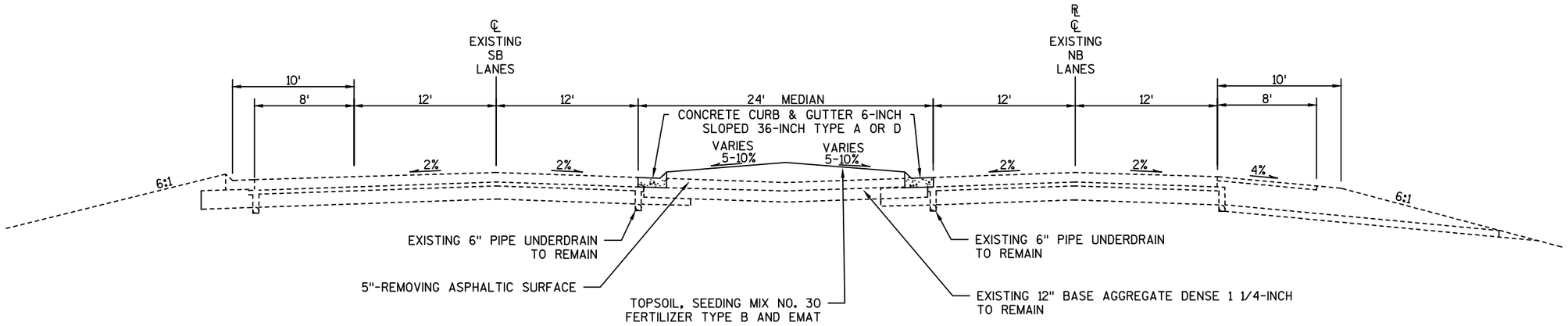
WORK AREA

FILE NAME : N:\PDS\C3D\CAD\22401330\024800_TTC.DWG
LAYOUT NAME - ****
PLOT DATE : 8/20/2015 11:59 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : Custom
WISDOT/CADDS SHEET 42



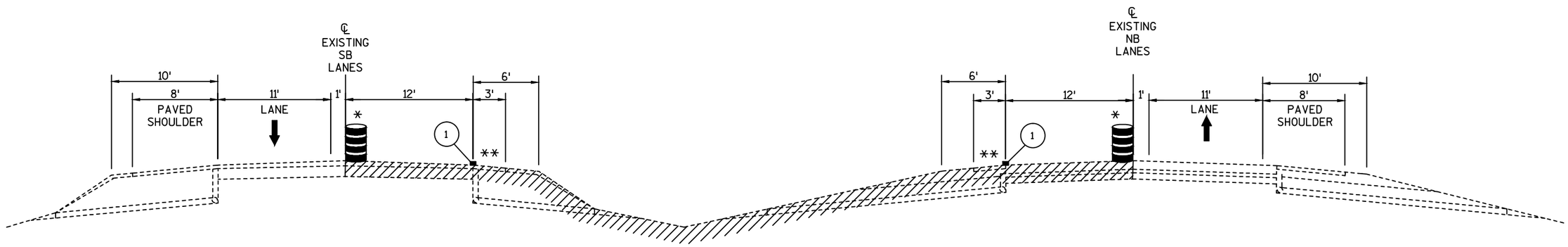
TEMPORARY CROSSOVER TYPICAL SECTION

STA 893+04 TO STA 901+14
STA 917+50 TO STA 925+54



TEMPORARY CROSSOVER REMOVAL TYPICAL SECTION

STA 893+04 TO STA 901+14
STA 917+50 TO STA 925+54



STAGE 1 WORK

1) ASPHALT SECTIONS => 2" MILLING, 2" HMA E-3

2) CONCRETE SECTIONS => CONCRETE PAVEMENT REPAIR/ REPLACEMENT

3) CLEANING CULVERTS

4) BEAM GUARD

5) SIGNAL/ LIGHTING WORK

6) PERMANENT PAVEMENT MARKINGS

7) CONSTRUCT TEMPORARY CROSSOVERS

* EXCEPT IN THE IMMEDIATE VICINITY OF MILLING AND PAVING OPERATIONS,
1 MILE MAX LENGTH. RESET DRUMS AS SOON AS POSSIBLE OR AS DIRECTED BY THE ENGINEER.

** DO NOT CONSTRUCT RUMBLE STRIPS UNTIL AFTER STAGE 2.

STAGE 1

STA 663+50 TO STA 787+40

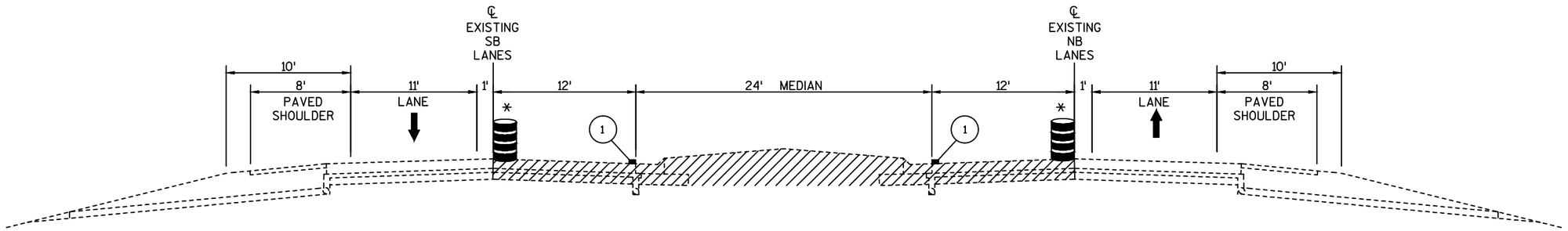
INSIDE LANES CLOSED

LEFT TURN LANES OPEN EXCEPT FOR OFF PEAK CLOSURES

LEGEND

LIMITS OF WORK

(1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)



STAGE 1

STA 787+40 TO STA 900+00
STA 920+00 TO STA 1047+05

INSIDE LANES CLOSED

LEFT TURN LANES OPEN EXCEPT FOR OFF PEAK CLOSURES

STAGE 2 WORK

1) ASPHALT SECTIONS => 2" MILLING, 2" HMA E-3

2) CONCRETE SECTIONS => CONCRETE PAVEMENT REPAIR/ REPLACEMENT

3) CLEANING CULVERTS

4) BEAM GUARD

5) DITCHING AND SHAPING

6) SIGNAL/ LIGHTING WORK

7) PERMANENT PAVEMENT MARKINGS

8) RUMBLE STRIPS - OUTSIDE SHOULDER

* EXCEPT IN THE IMMEDIATE VICINITY OF MILLING AND PAVING OPERATIONS, 1 MILE MAX LENGTH. RESET DRUMS AS SOON AS POSSIBLE OR AS DIRECTED BY THE ENGINEER.

STAGE 2

STA 663+50 TO STA 787+40

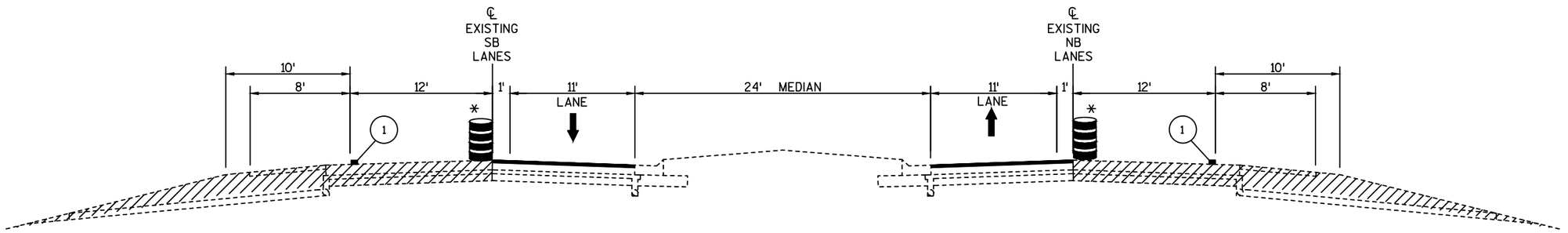
OUTSIDE LANES CLOSED

RIGHT TURN LANES OPEN EXCEPT FOR OFF PEAK CLOSURES

LEGEND

LIMITS OF WORK

(1) PAVEMENT MARKING EPOXY 4-INCH (WHITE)



STAGE 2

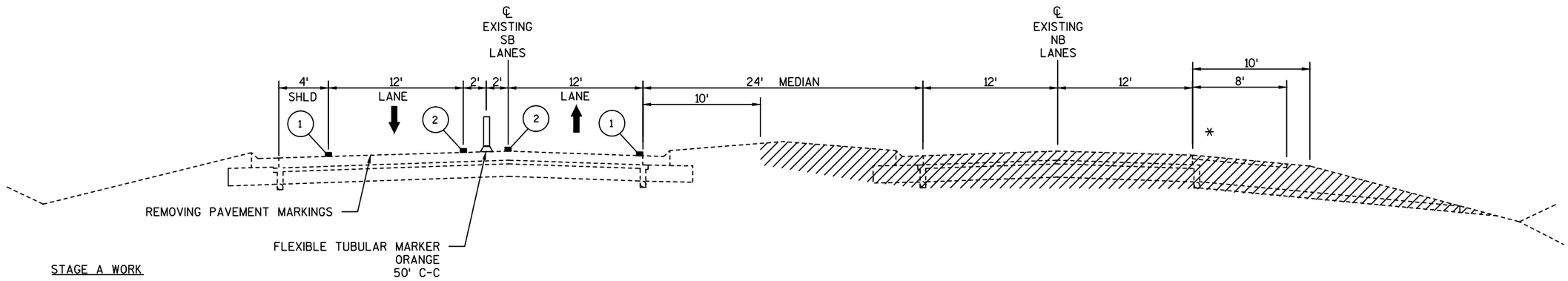
STA 787+40 TO STA 900+00
STA 920+00 TO STA 1047+05

OUTSIDE LANES CLOSED

RIGHT TURN LANES OPEN EXCEPT FOR OFF PEAK CLOSURES

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CONSTRUCTION STAGING - STAGE 2	SHEET 167	E

2



STAGE A WORK

1) RECONSTRUCT NORTHBOUND LANES

2) STORM SEWER

* DO NOT CONSTRUCT RUMBLE STRIPS UNTIL AFTER STAGE B

STAGE A

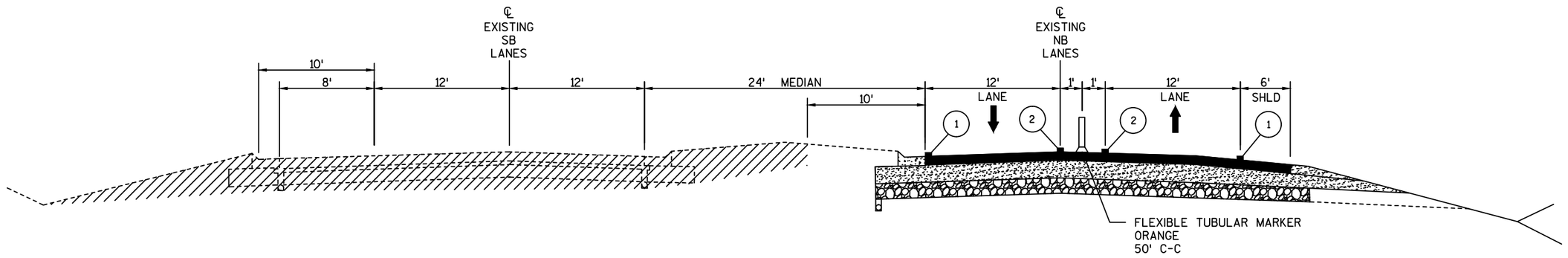
STA 900+00 TO STA 920+00

NORTHBOUND LANES CLOSED

LEGEND

- LIMITS OF WORK
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

- SEE TRAFFIC CONTROL PLAN SHEETS FOR BEGIN AND END LOCATIONS



STAGE B WORK

1) RECONSTRUCT SOUTHBOUND LANES

2) STORM SEWER

3) PERMANENT PAVEMENT MARKINGS (SOUTHBOUND)

STAGE B

STA 900+00 TO STA 920+00

SOUTHBOUND LANES CLOSED

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CONSTRUCTION STAGING - STAGE A & B	SHEET 168	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

FOR ADVANCED WARNING SIGNS
SEE TEMPORARY SPEED LIMITS DETAIL
ANDD SDD TRAFFIC CONTROL LANE CLOSURES

2

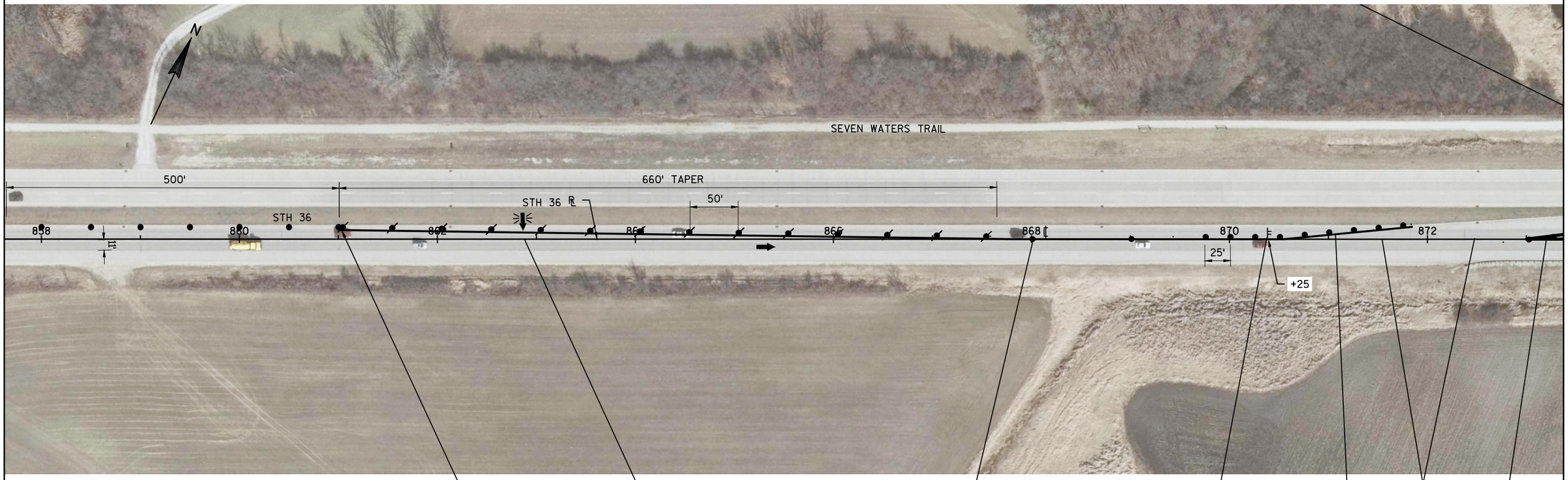
PROJECT NO:2240-13-60	HWY:STH 36	COUNTY:RAC/WAU/MILW	TRAFIC CONTROL - PHASE 1 STAGE 1	SHEET 169	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026101_P1S1.DWG
LAYOUT NAME - (01)_P1S1

PLOT DATE : 1/20/2016 9:57 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********

SINGLE LANE CLOSURE THRU MEDIAN OPENINGS
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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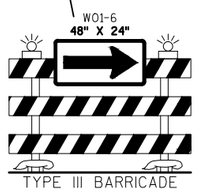
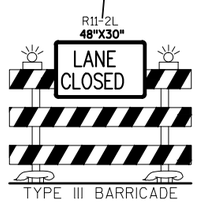
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO:2240-13-60	HWY: STH 36	COUNTY:RAC/WAU/MILW	TRAFIC CONTROL - PHASE 1 STAGE 1	SHEET 170	E

SINGLE LANE CLOSURE THRU MEDIAN OPENING
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

2





LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFIC CONTROL - PHASE 1 STAGE 1	SHEET 171	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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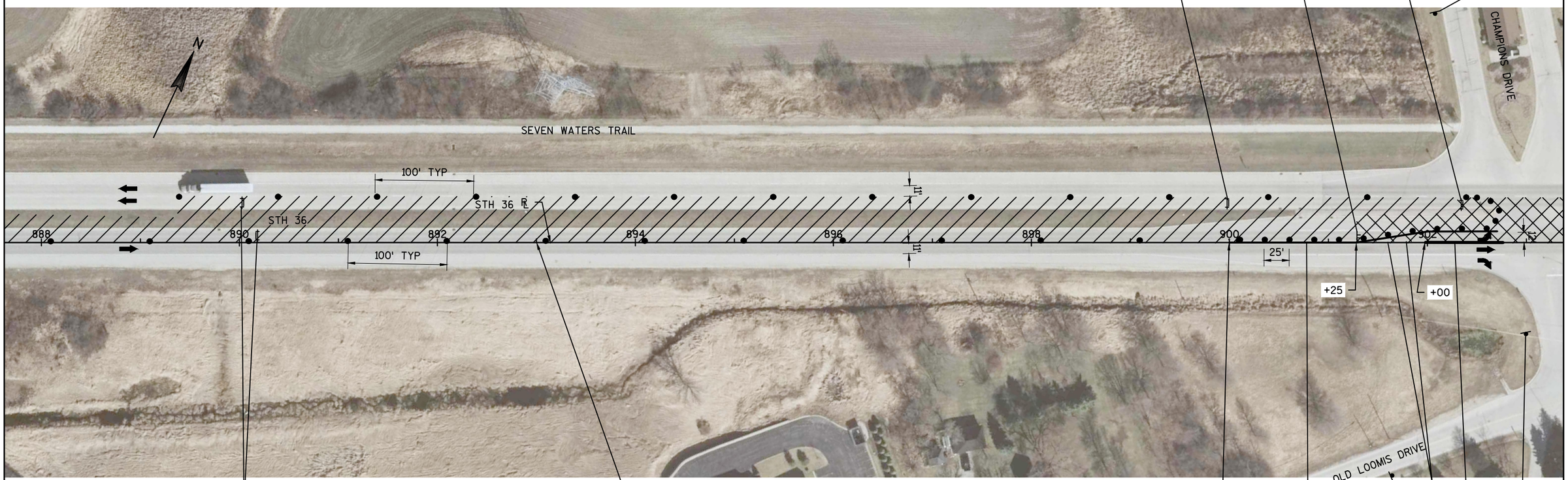
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

-USE THESE SHEETS FOR CROSS OVER CONSTRUCTION AND REMOVAL.



R11-2L 48"X30" LANE CLOSED TYPE III BARRICADE

R3-20-L 36"X54" BEGIN LEFT TURN LANE

W01-6 48" X 24" TYPE III BARRICADE

W20-1-A ROAD WORK AHEAD

R11-2L 48"X30" LANE CLOSED TYPE III BARRICADE

SEE TRAFFIC CONTROL STAGE 1 TO STAGE A AND STAGE 1 TO STAGE B FOR RECONSTRUCTION TRAFFIC CONTROL WHILE TEMPORARY CROSSOVER IS IN USE.

W20-1-A ROAD WORK AHEAD

G20-2A 48"X24" END ROAD WORK

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFIC CONTROL - PHASE 1 STAGE 1	SHEET 172	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026101_P1S1.DWG
LAYOUT NAME - (04)_P1S1

PLOT DATE : 1/19/2016 2:25 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : ********** WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

-USE THESE SHEETS FOR CROSS OVER CONSTRUCTION AND REMOVAL.

2

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

BEGIN LEFT TURN LANE
R3-20-L
36"X54"

W01-6
48" X 24"
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1-4

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFIC CONTROL - PHASE 1 STAGE 1	SHEET 173	E

2

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W01-6
48" X 24"
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

SEE CTH 00/ USH 45
TRAFFIC CONTROL SHEETS

3

CTH 00/ USH 45

SEVEN WATERS TRAIL

N

100' TYP

11'

STH 36

STH 36

25'

918 920 922 924 926 928 930 932

100' TYP

+75

+25

18'

BEGIN
1
+75

1

4

3

BEGIN LEFT TURN LANE
R3-20-L
36"X54"

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1-A

W01-6
48" X 24"
TYPE III BARRICADE

SEE TRAFFIC CONTROL STAGE 1 TO STAGE A
AND STAGE 1 TO STAGE B
FOR RECONSTRUCTION TRAFFIC CONTROL
WHILE TEMPORARY CROSSOVER IS IN USE.

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFIC CONTROL - PHASE 1 STAGE 1	SHEET 174	E

2

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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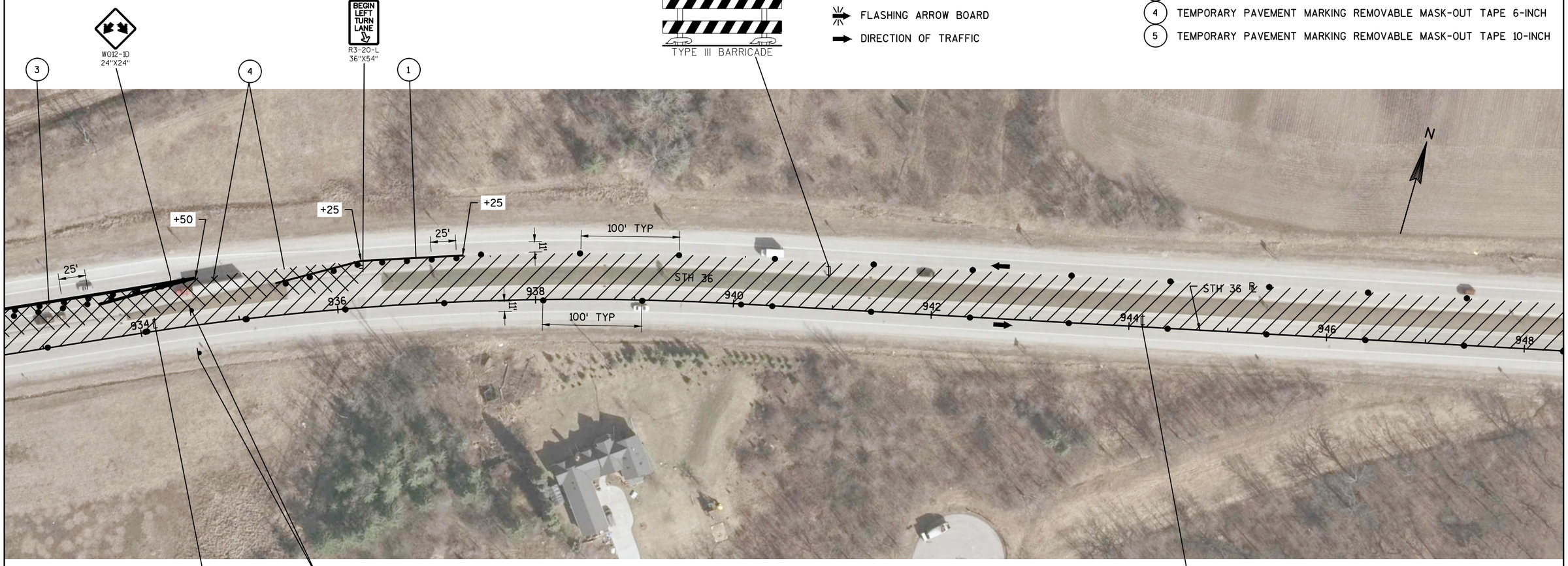
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH



PROJECT NO:2240-13-60	HWY: STH 36	COUNTY:RAC/WAU/MILW	TRAFIC CONTROL - PHASE 1 STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026101_P1S1.DWG
LAYOUT NAME - (07)_P1S1

PLOT DATE : 1/19/2016 2:25 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********

WISDOT/CADDS SHEET 42

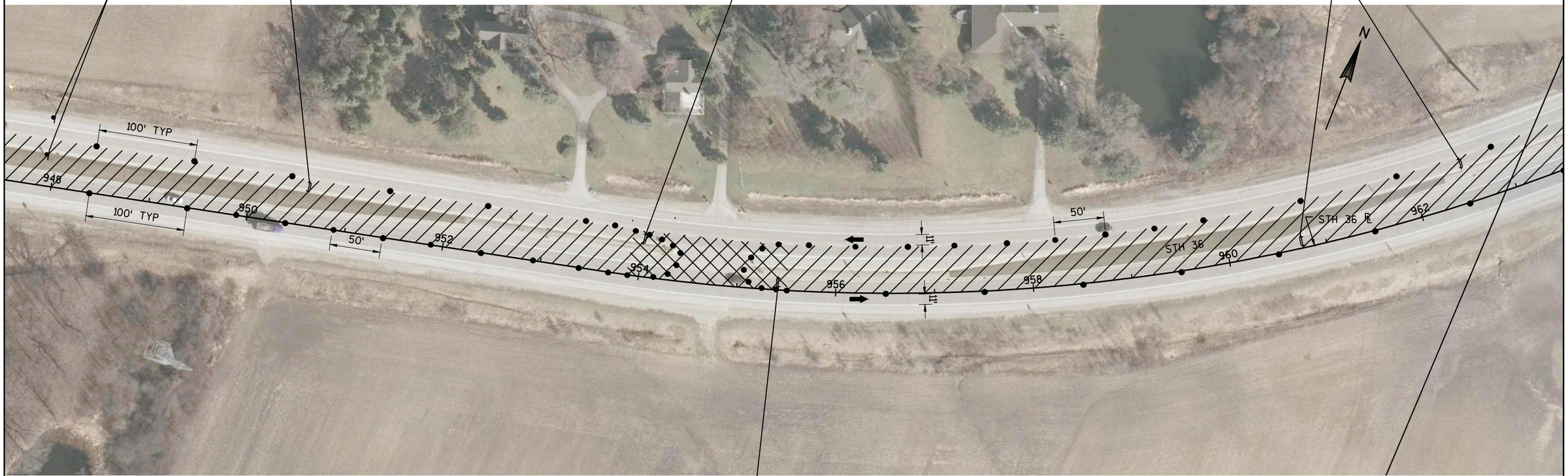
SINGLE LANE CLOSURE THRU MEDIAN OPENING
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

W21-62-O
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W01-6
48" X 24"
TYPE III BARRICADE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE



W01-6
48" X 24"
TYPE III BARRICADE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFIC CONTROL - PHASE 1 STAGE 1	SHEET 176	E

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

2

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

W01-6
48" X 24"
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1-A

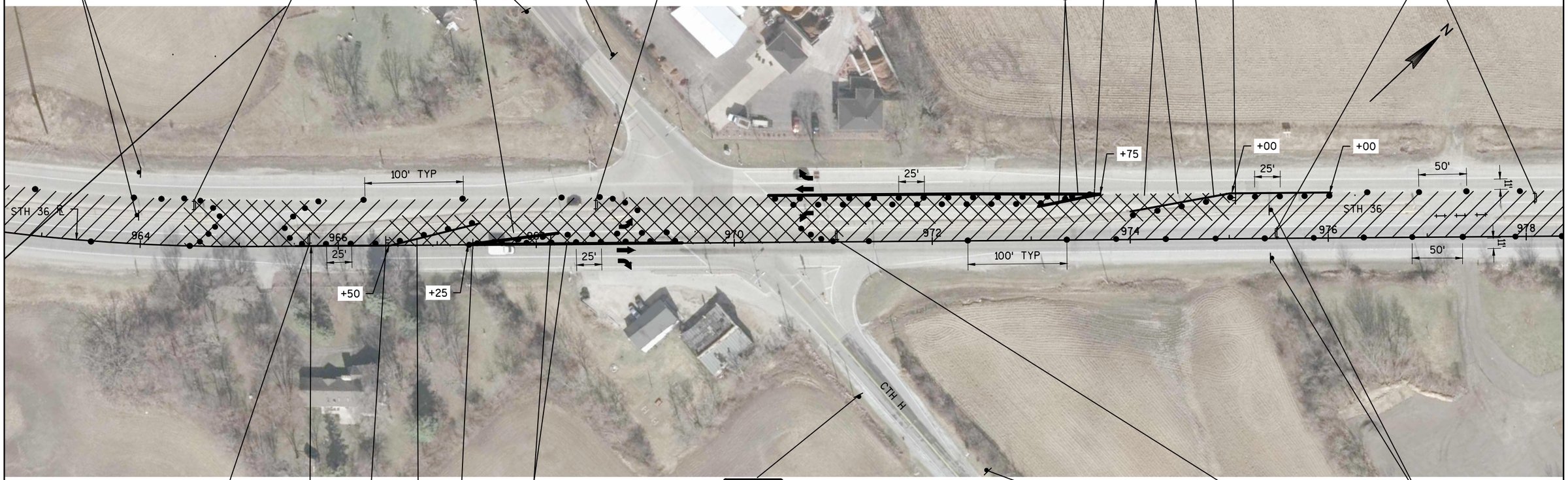
END ROAD WORK
G20-2A
48"X24"

W01-6
48" X 24"
TYPE III BARRICADE

W012-1D
24"X24"

BEGIN LEFT TURN LANE
R3-20-L
36"X54"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE



BEGIN
1
+75

W01-6
48" X 24"
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20-L
36"X54"

W012-1D
24"X24"

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1-A

W01-6
48" X 24"
TYPE III BARRICADE

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFIC CONTROL - PHASE 1 STAGE 1	SHEET 177	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026102_P1S1.DWG
LAYOUT NAME - (09)_P1S1
PLOT DATE : 1/19/2016 2:25 PM
PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

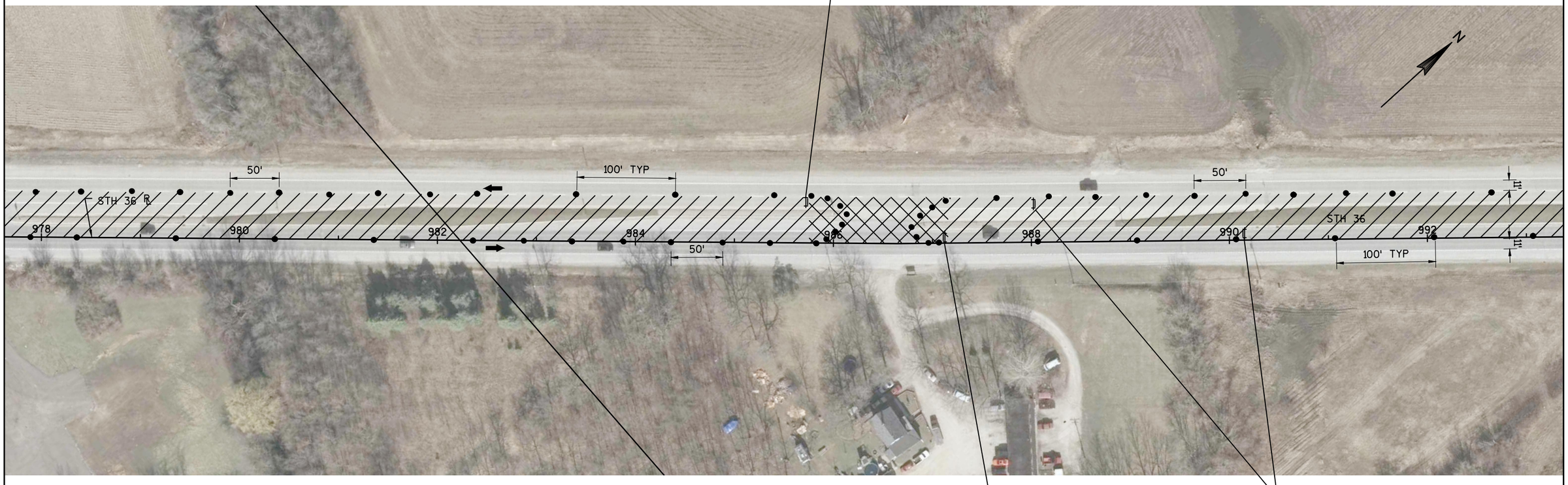
WORK ZONE

AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS.
(FLAGGING REQUIRED FOR OFF PEAK HOURS)

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
3. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

2



PROJECT NO:2240-13-60	HWY: STH 36	COUNTY:RAC/WAU/MILW	TRAFIC CONTROL - PHASE 1 STAGE 1	SHEET 178	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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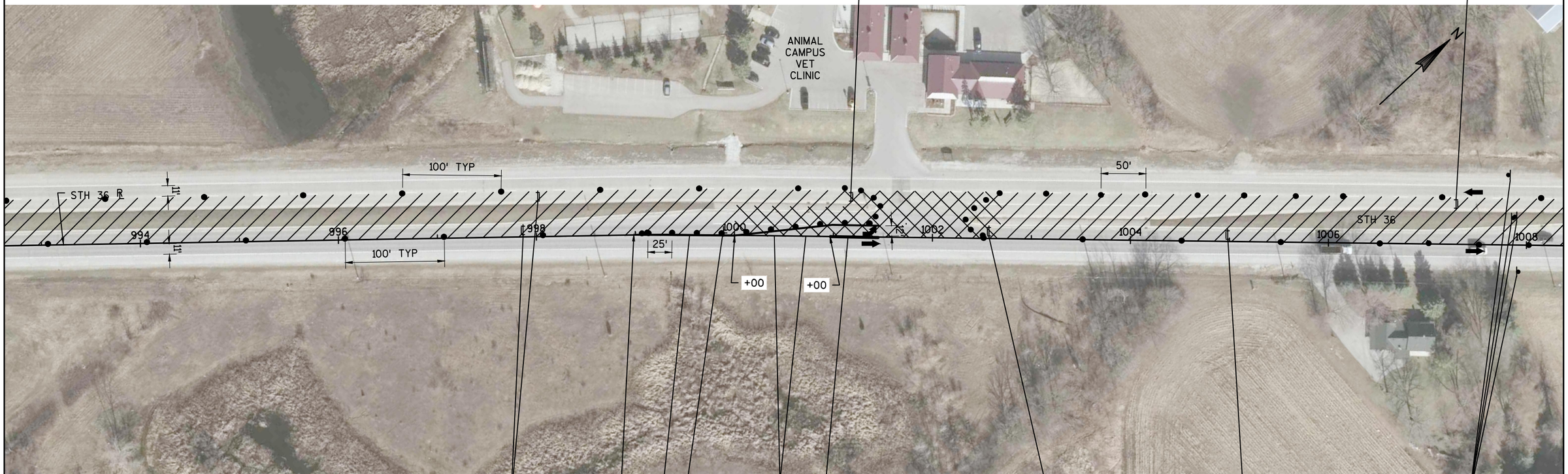
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

SINGLE LANE CLOSURE THRU MEDIAN OPENINGS
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

2

W01-6
48" X 24"
TYPE III BARRICADE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE



BEGIN
(1)
+00

(1)

(4)

(3)

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20-L
36"X54"

W01-6
48" X 24"
TYPE III BARRICADE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

PROJECT NO:2240-13-60	HWY:STH 36	COUNTY:RAC/WAU/MILW	TRAFIC CONTROL - PHASE 1 STAGE 1	SHEET 179	E

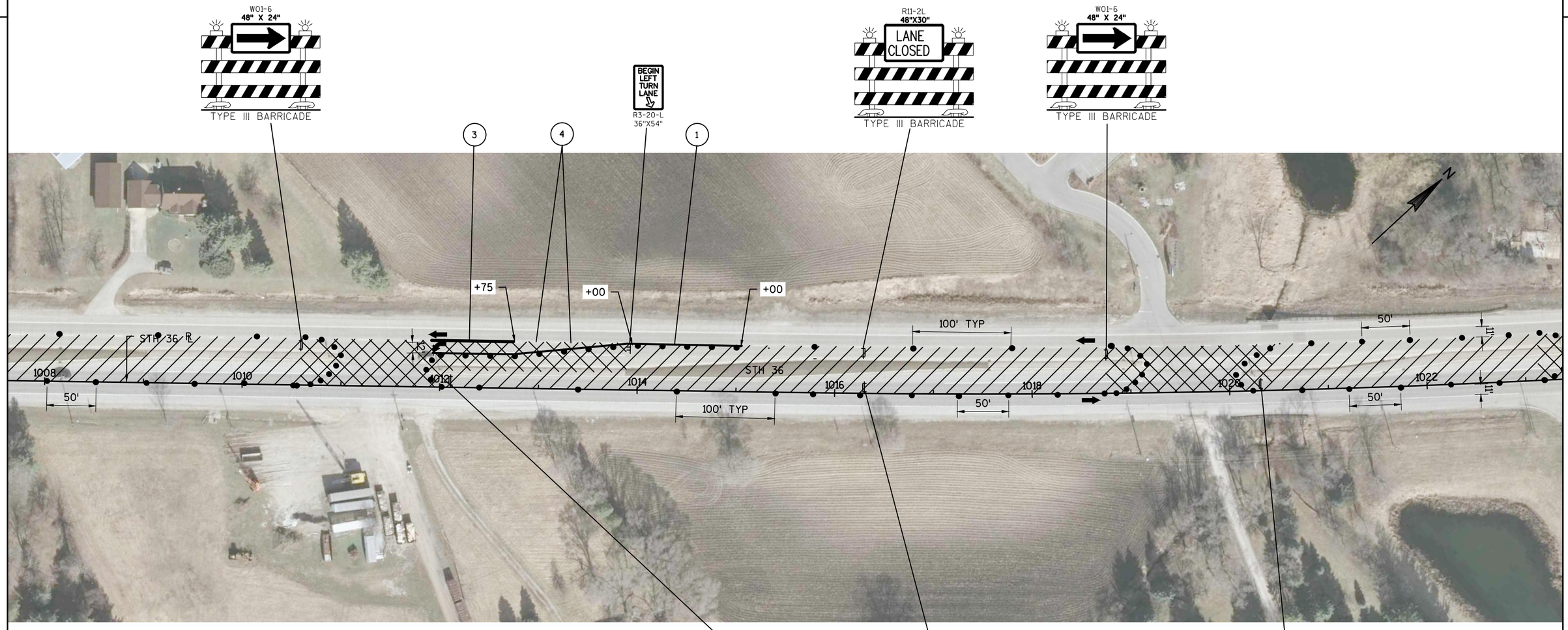
FILE NAME : N:\PDS\C3D\CAD\22401330\026102_P1S1.DWG
LAYOUT NAME - (11)_P1S1

PLOT DATE : 1/19/2016 2:25 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********

WISDOT/CADDS SHEET 42

SINGLE LANE CLOSURE THRU MEDIAN OPENING
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

2



LEGEND

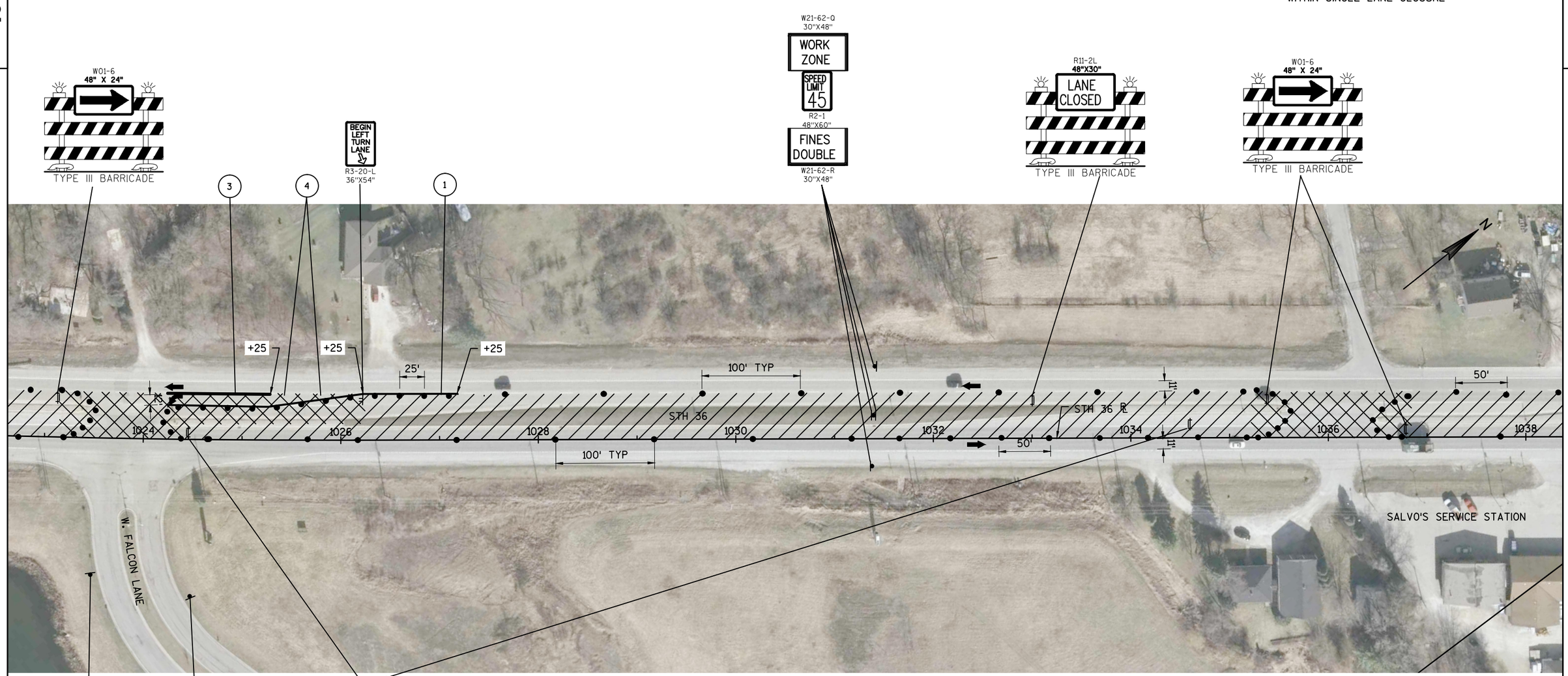
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO:2240-13-60	HWY:STH 36	COUNTY:RAC/WAU/MILW	TRAFIC CONTROL - PHASE 1 STAGE 1	SHEET 180	E

2

SINGLE LANE CLOSURE THRU MEDIAN OPENING
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFIC CONTROL - PHASE 1 STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026102_P1S1.DWG
LAYOUT NAME - (13)_P1S1

PLOT DATE : 1/19/2016 2:25 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W01-6
48" X 24"
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1-A

END ROAD WORK
G20-2A
48"X24"

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

BEGIN LEFT TURN LANE
R3-20-L
36"X54"

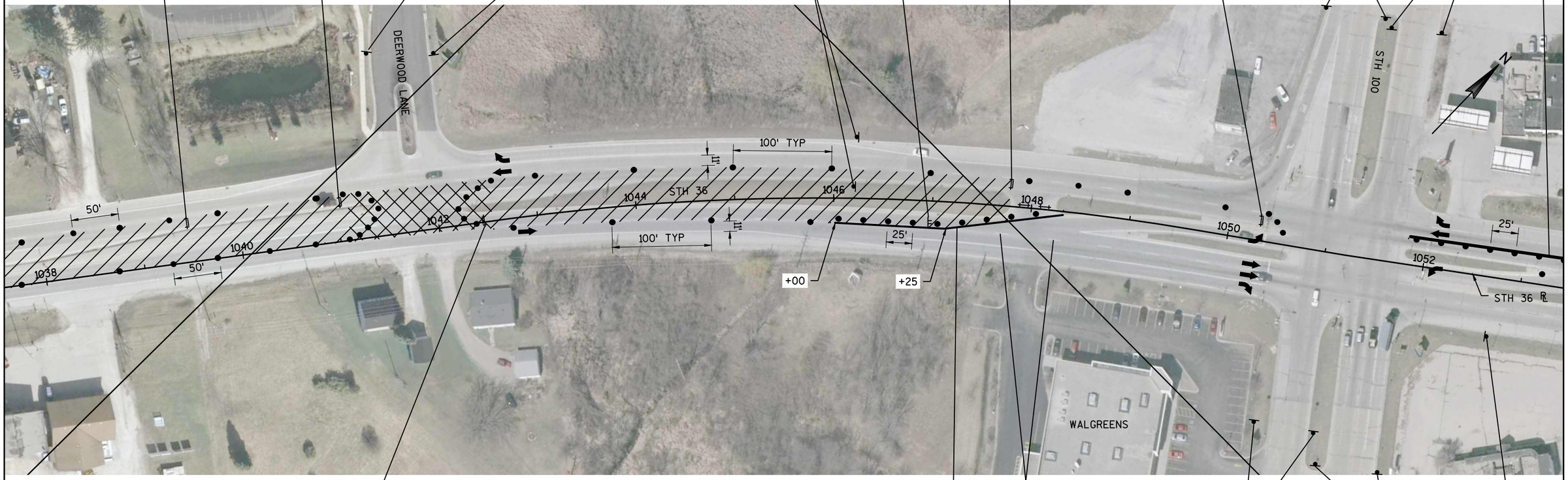
R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W01-6
48" X 24"
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1-A

END ROAD WORK
G20-2A
48"X24"

3



1

4

W01-6
48" X 24"
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1-A

END ROAD WORK
G20-2A
48"X24"

LEGEND

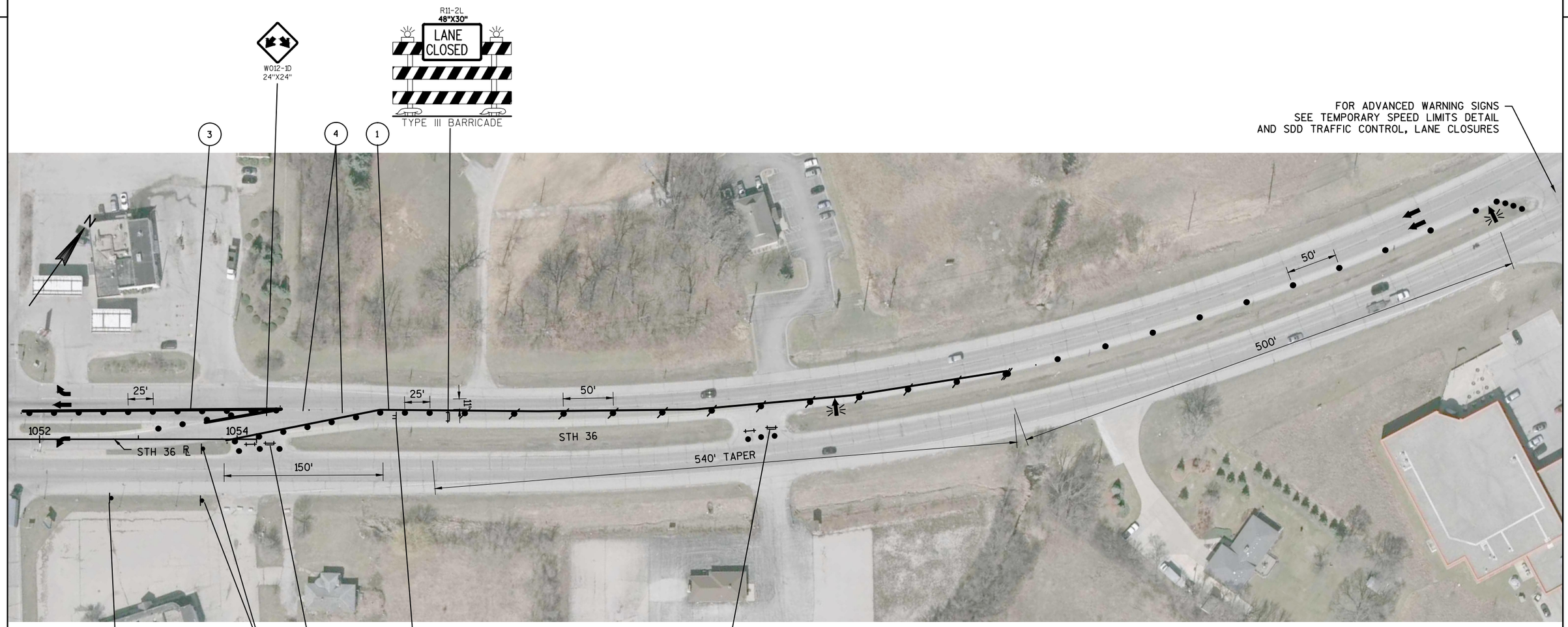
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
3. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFIC CONTROL - PHASE 1 STAGE 1	SHEET 182	E

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
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- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFIC CONTROL - PHASE 1 STAGE 1	SHEET 183	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO:2240-13-60	HWY: STH 36	COUNTY:RAC/WAU/MILW	TRAFIC CONTROL - PHASE 1 STAGE 1 - CTH 00/ USH 45	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026102_P1S1.DWG
LAYOUT NAME - (16)_P1S1

PLOT DATE : 1/19/2016 2:26 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********

2

2

FOR ADVANCED WARNING SIGNS
SEE TEMPORARY SPEED LIMITS DETAIL AND
SDD TRAFFIC CONTROL, LANE CLOSURES

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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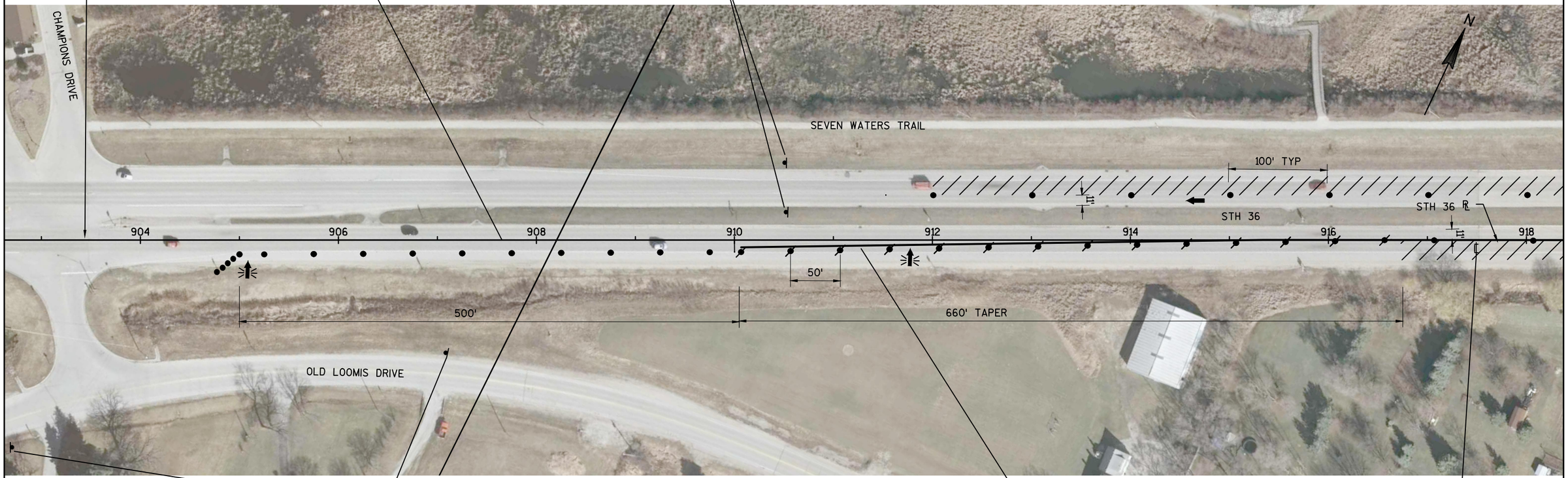
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 1 STAGE 2	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026103_P1S2.DWG
LAYOUT NAME - (01)_P1S2
PLOT DATE : 1/19/2016 2:28 PM
PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)

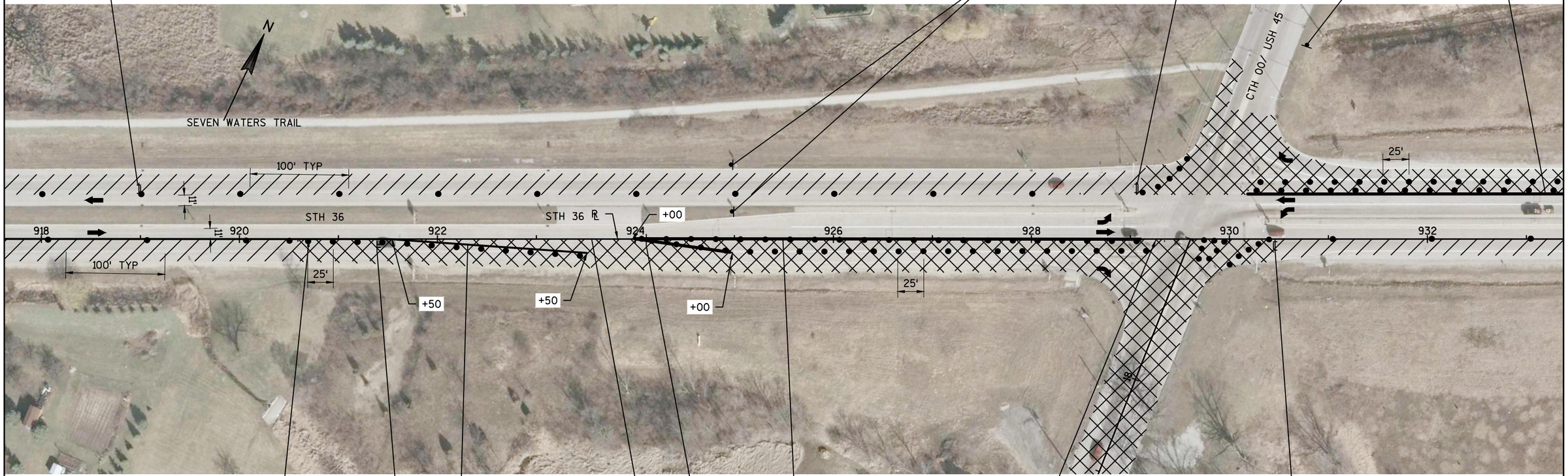
1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
3. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"



BEGIN
2
+75

BEGIN RIGHT TURN LANE
R3-20-R
36"X54"

2

4

W012-1D
24"X24"

3

SEE TRAFFIC CONTROL STAGE 2 TO STAGE A
AND STAGE 2 TO STAGE B
FOR RECONSTRUCTION TRAFFIC CONTROL
WHILE TEMPORARY CROSSOVER IS IN USE.

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 1 STAGE 2	SHEET 186	E

2

W21-62-0
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
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- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 1 STAGE 2	SHEET 187	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026103_P1S2.DWG
LAYOUT NAME - (03)_P1S2
PLOT DATE : 1/19/2016 2:28 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
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- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 1 STAGE 2	SHEET 188	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026104_P1S2.DWG
LAYOUT NAME - (04)_P1S2
PLOT DATE : 1/19/2016 2:28 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
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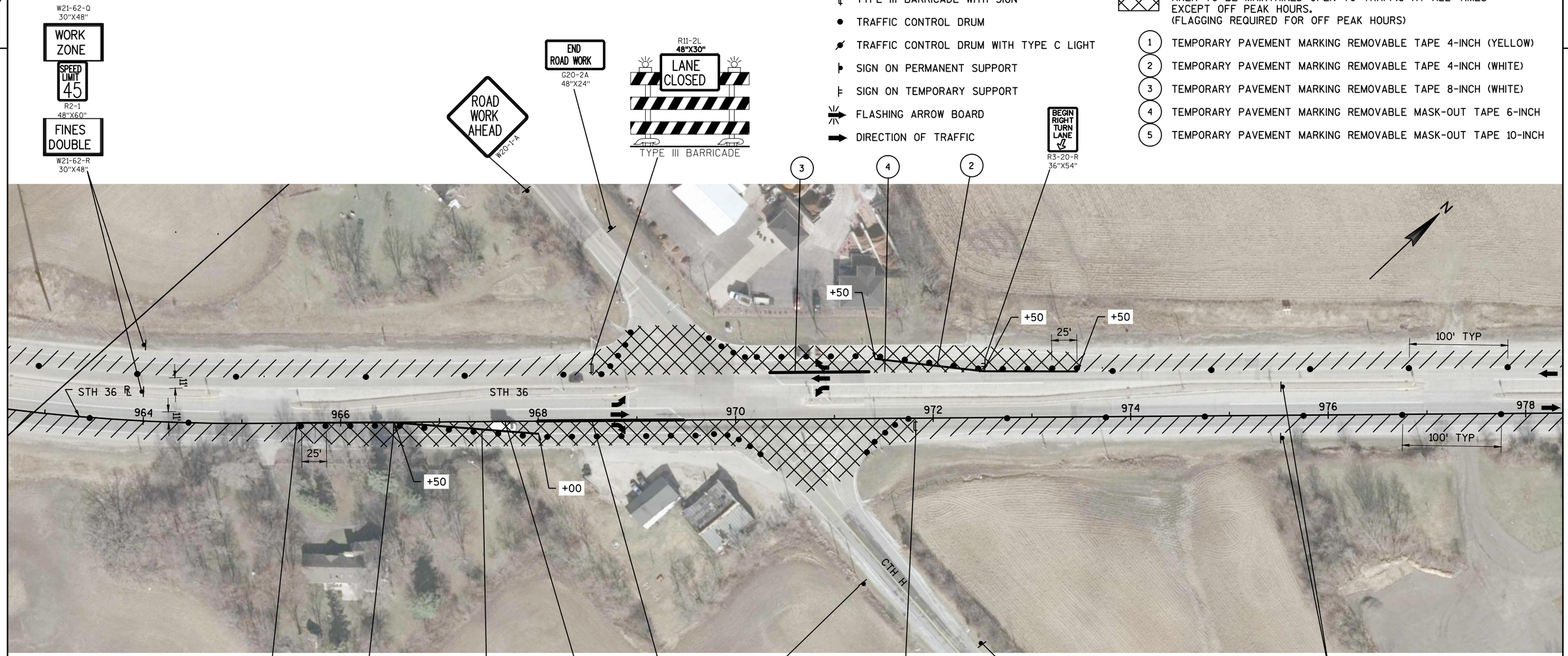
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH



SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 1 STAGE 2	SHEET 189	E

2

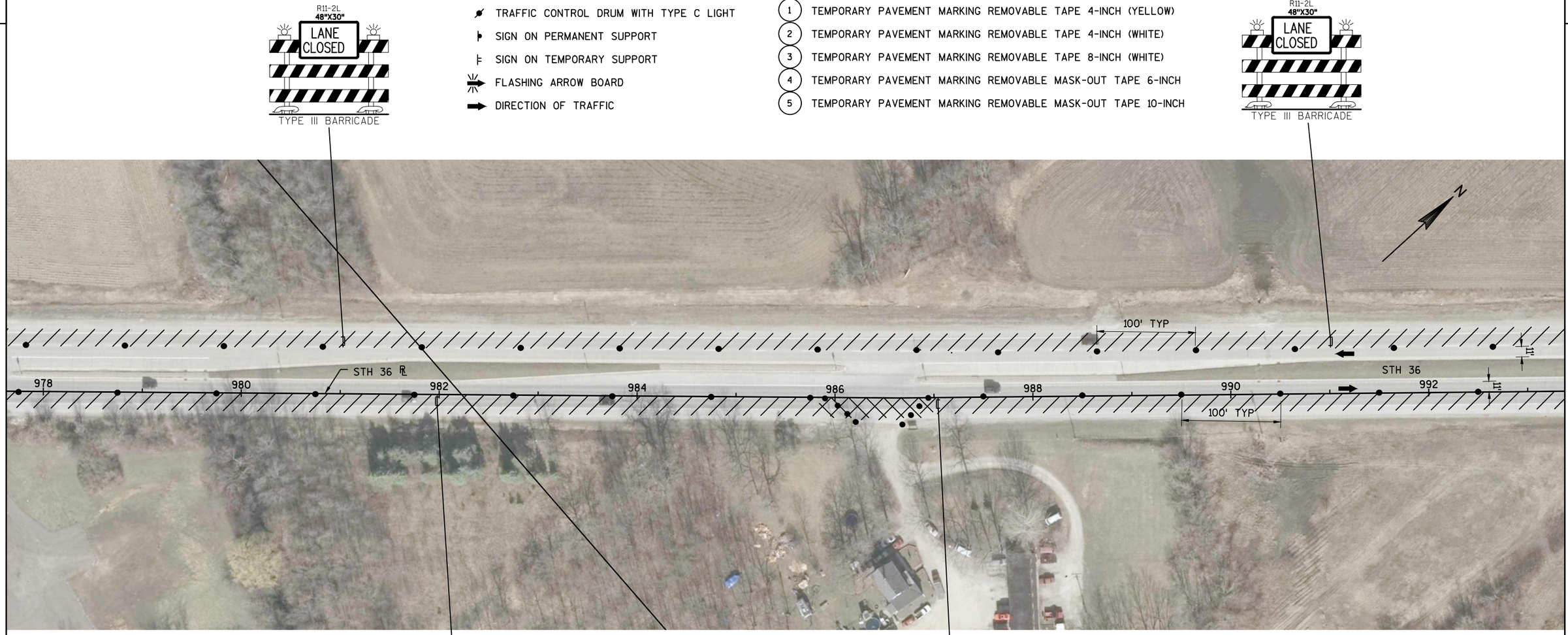
2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

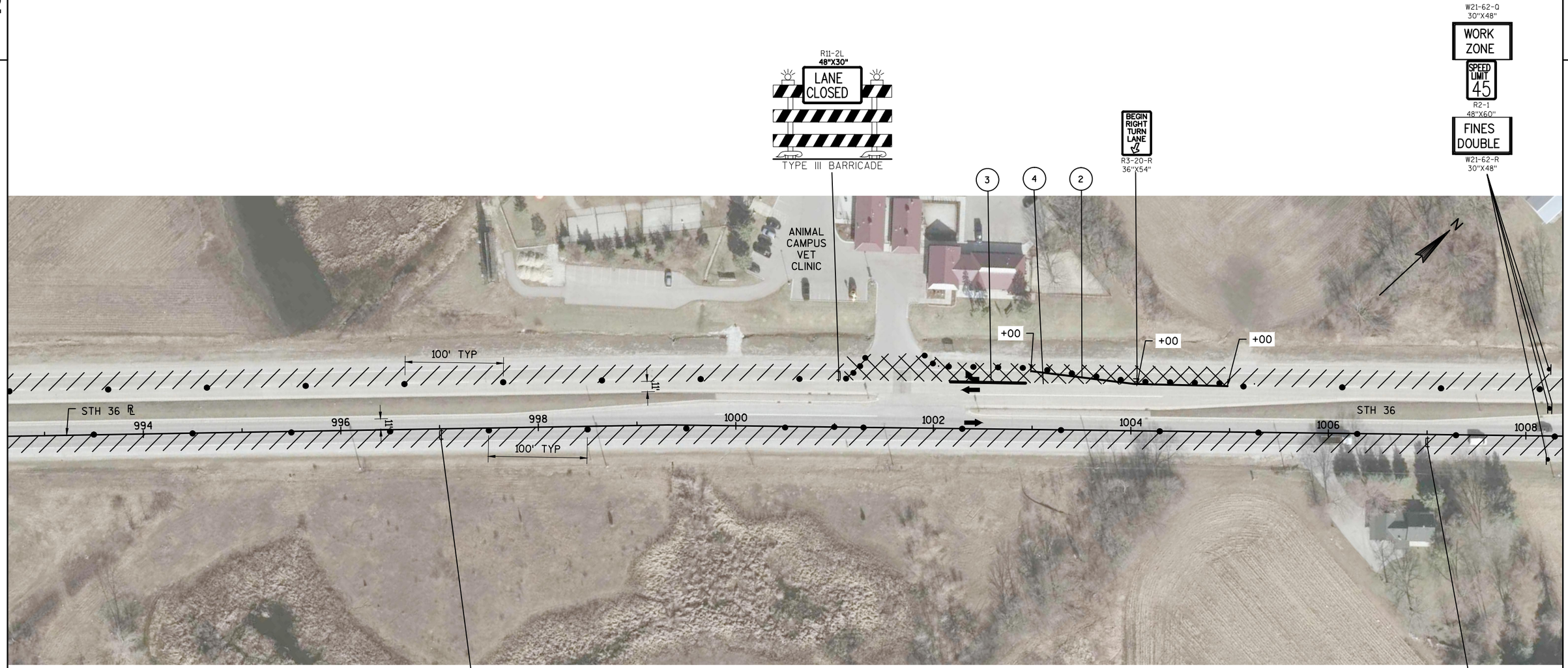
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
3. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 1 STAGE 2	SHEET 190	E

2

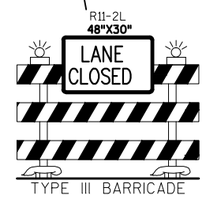


LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
3. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 1 STAGE 2	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026104_P1S2.DWG
LAYOUT NAME - (07)_P1S2
PLOT DATE : 1/19/2016 2:28 PM
PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

2

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 1 STAGE 2	SHEET 192	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
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- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

2

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1-A

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

PROJECT NO:2240-13-60	HWY: STH 36	COUNTY:RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 1 STAGE 2	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026104_P1S2.DWG
LAYOUT NAME - (09)_P1S2

PLOT DATE : 1/19/2016 2:28 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : _____ PLOT SCALE : **********

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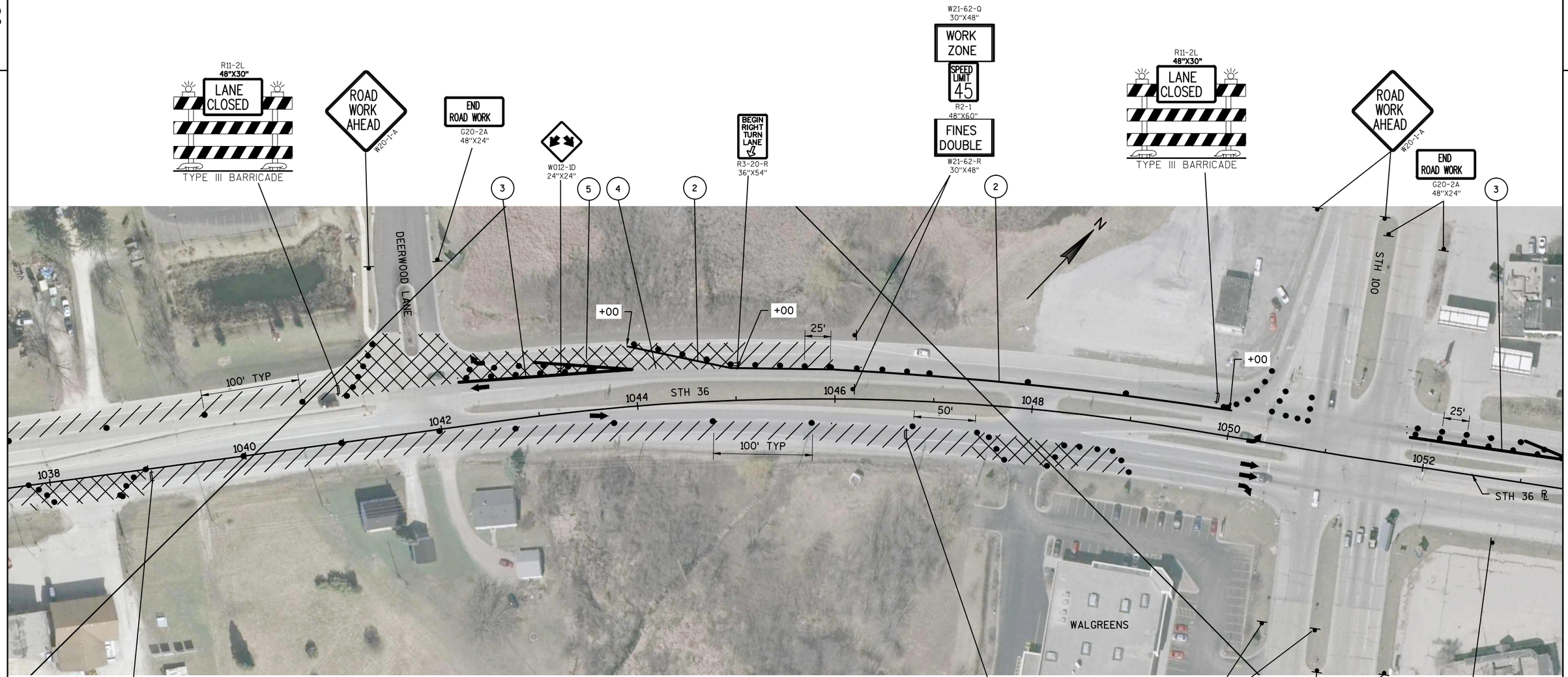

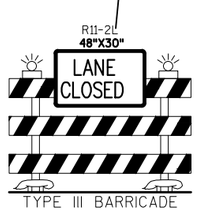

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)

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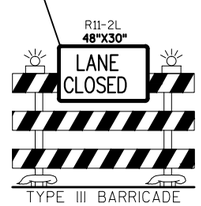
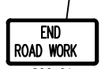
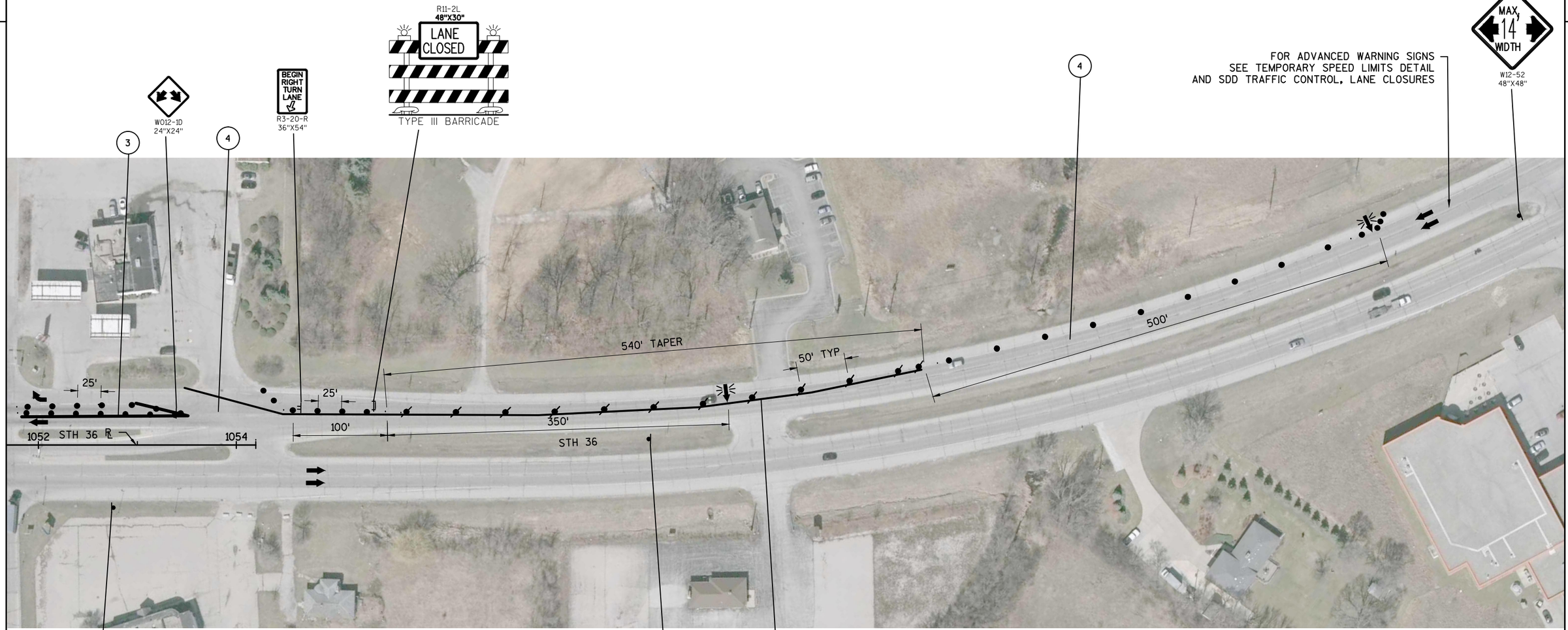
5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH





PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 1 STAGE 2	SHEET 194	E

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 1 STAGE 2	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026104_P1S2.DWG
LAYOUT NAME - (11)_P1S2
PLOT DATE : 1/19/2016 2:28 PM
PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

PLACE ONLY FOR THE TIME BETWEEN MILLING AND PAVING OF INTERSECTION.

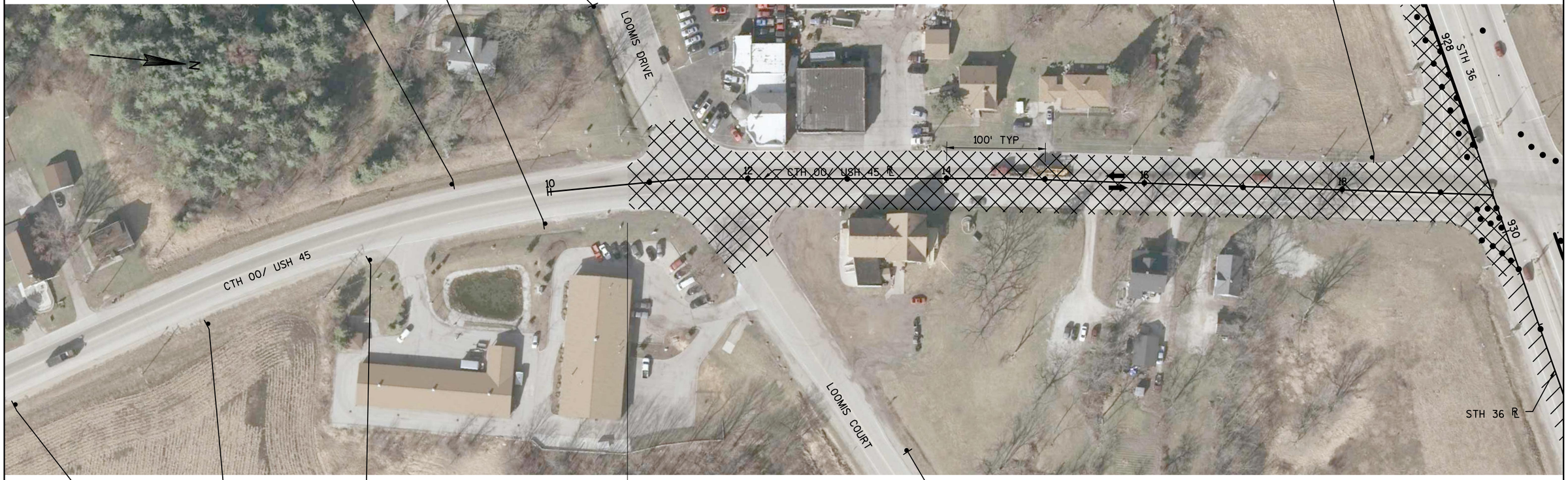
END ROAD WORK
G20-2A
48"X24"

BUMP
W08-1

ROAD WORK AHEAD
W20-1-A

PLACE ONLY FOR THE TIME BETWEEN MILLING AND PAVING OF INTERSECTION.

BUMP
W08-1



500' 500' 500'

ROAD WORK AHEAD
W20-1-A

ROAD WORK 1000 FT
W20-1-C

ROAD WORK 500 FT
W20-1-D

ROAD WORK AHEAD
W20-1-A

WORK ZONE

AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS.
(FLAGGING REQUIRED FOR OFF PEAK HOURS)

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
3. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 1 STAGE 2 CTH 00/ USH 45	SHEET 196	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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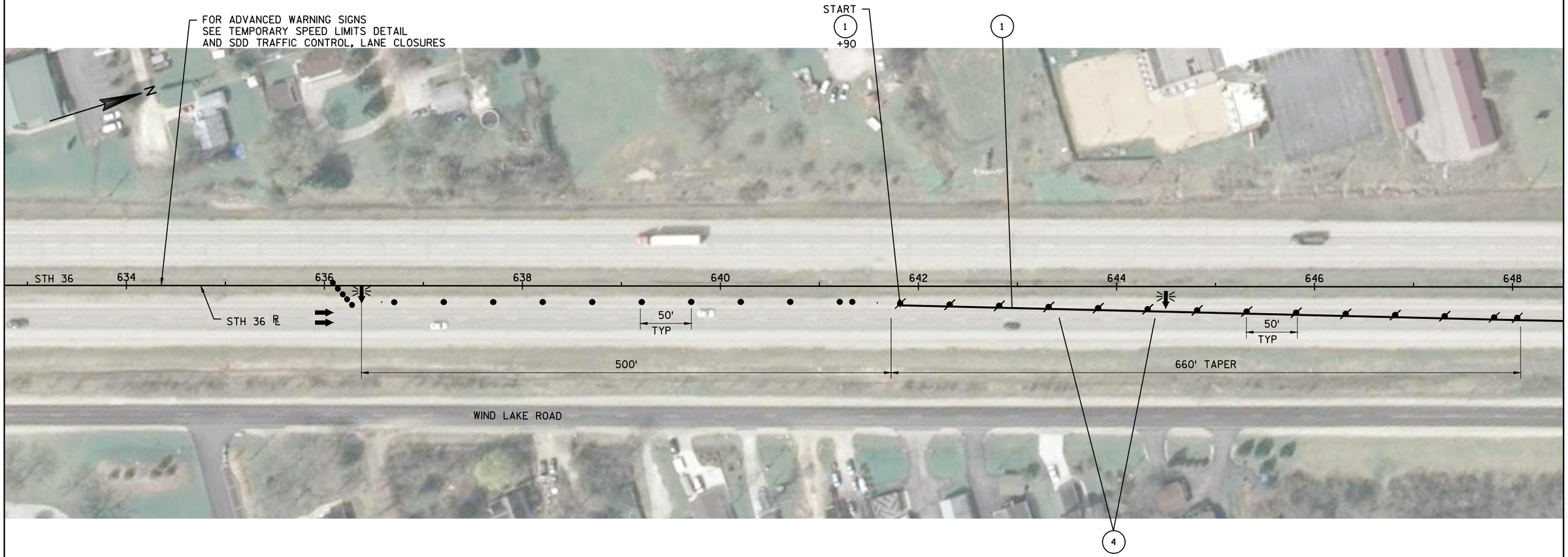
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO:2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 1 STAGE 2 CTH 00/USH 45	SHEET 197	E

2



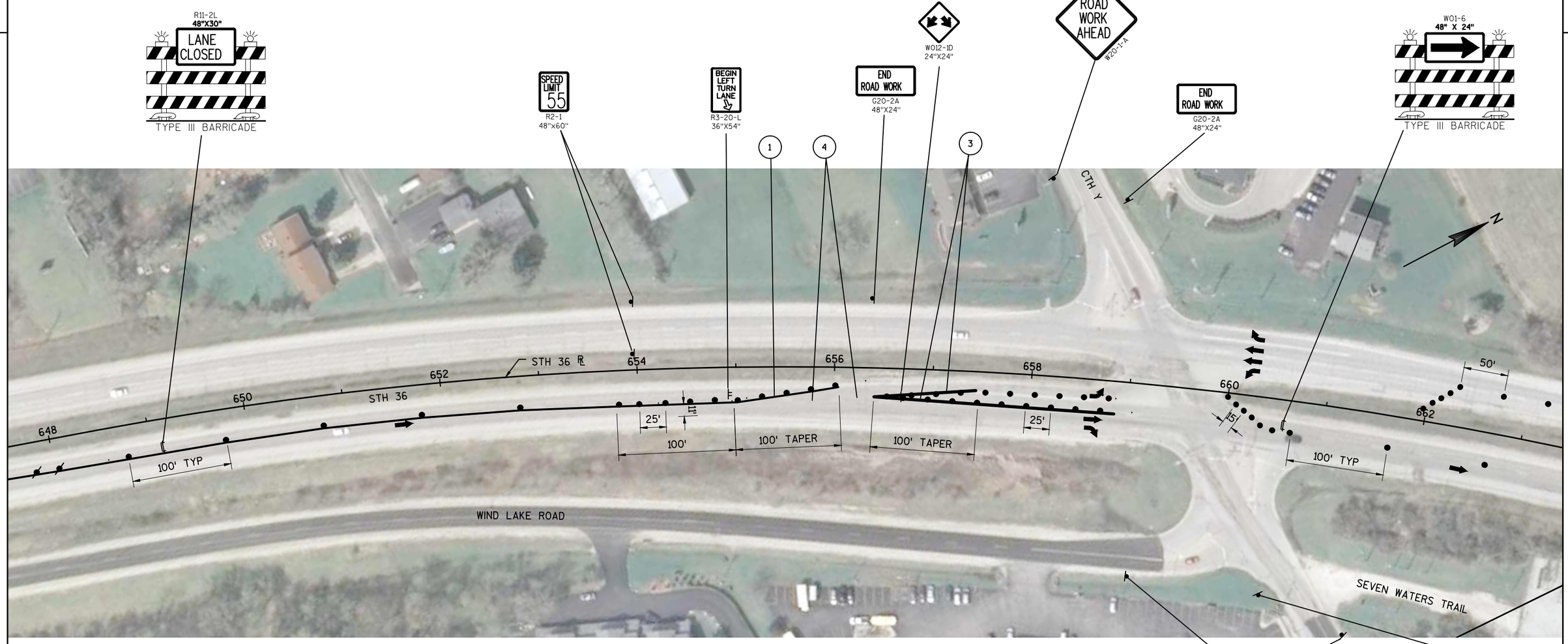
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS CLOSURE)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 198	E

2

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
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- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 199	E

2

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
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- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

R1-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

PROJECT NO:2240-13-60	HWY: STH 36	COUNTY:RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 200	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026201_P2S1.DWG
LAYOUT NAME - (02)_P2S1

PLOT DATE : 1/19/2016 2:07 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)

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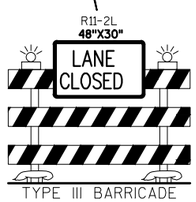
4. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 201	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

WORK ZONE

AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS.
(FLAGGING REQUIRED FOR OFF PEAK HOURS)

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
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5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

SINGLE LANE CLOSURE THRU MEDIAN OPENING
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

2

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W01-6
48" X 24"
TYPE III BARRICADE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W01-6
48" X 24"
TYPE III BARRICADE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

PROJECT NO:2240-13-60	HWY:STH 36	COUNTY:RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 202	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
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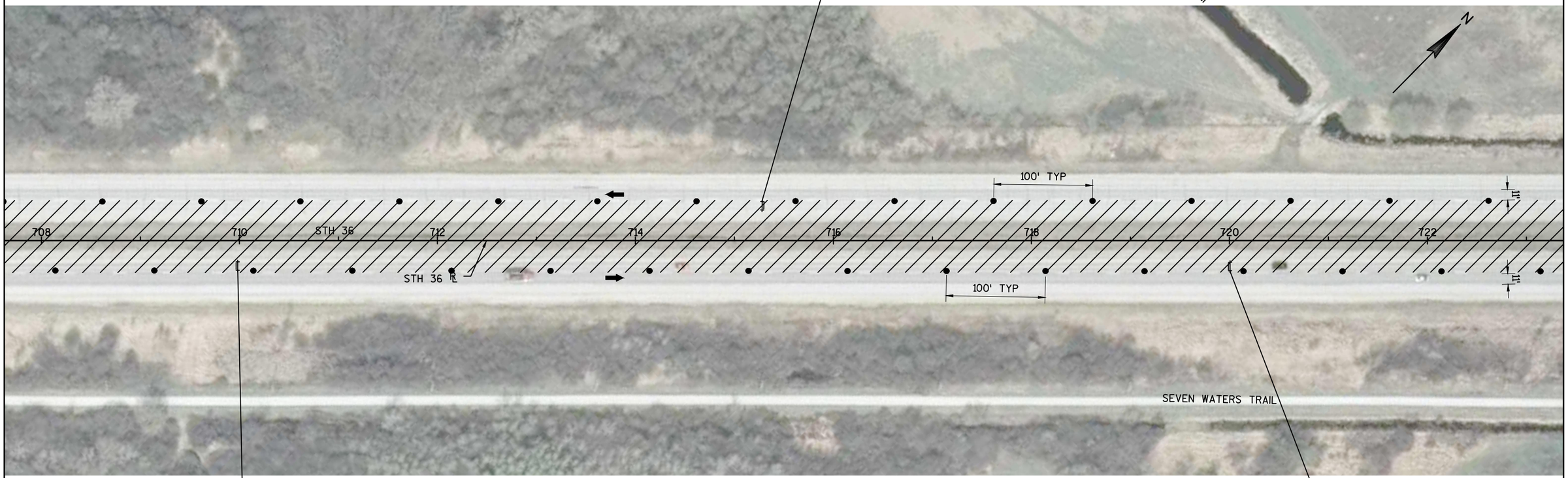
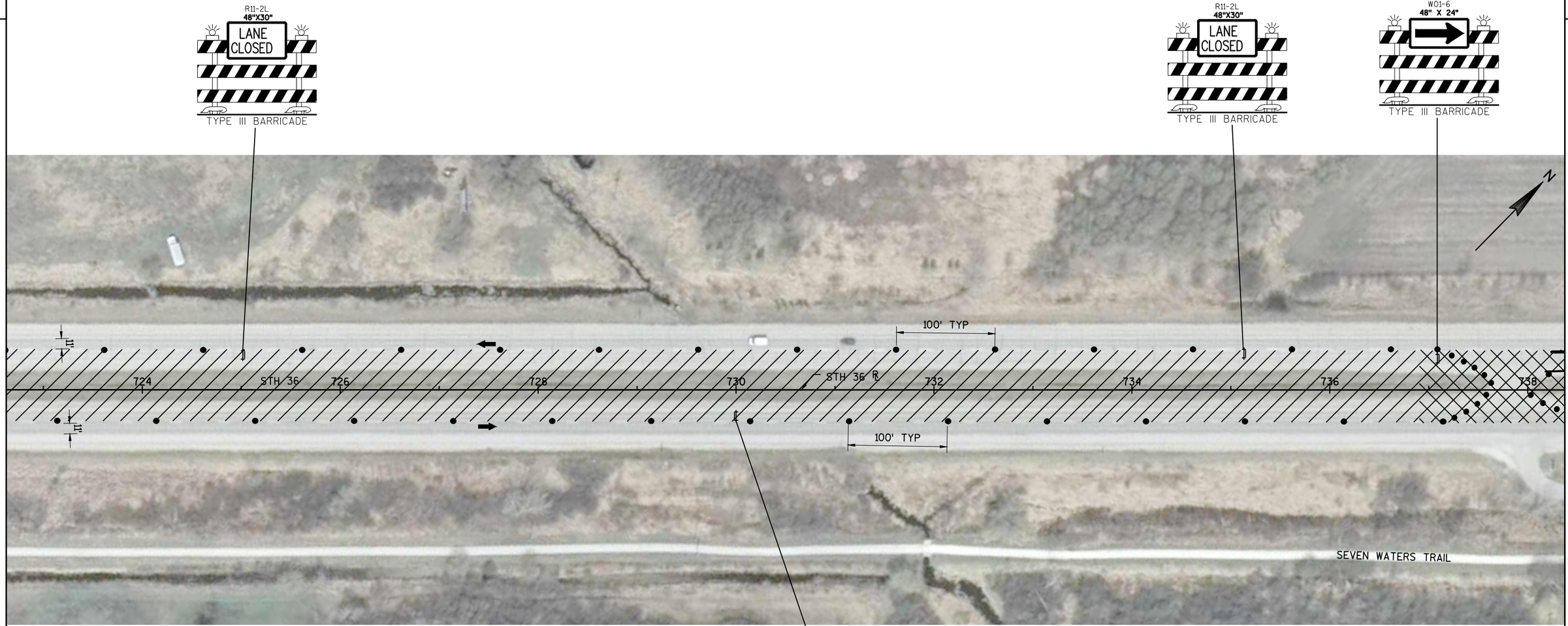
5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 203	E

SINGLE LANE CLOSURE THRU MEDIAN OPENING
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
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4. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 204	E

2

SINGLE LANE CLOSURE THRU MEDIAN OPENING
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

LEGEND

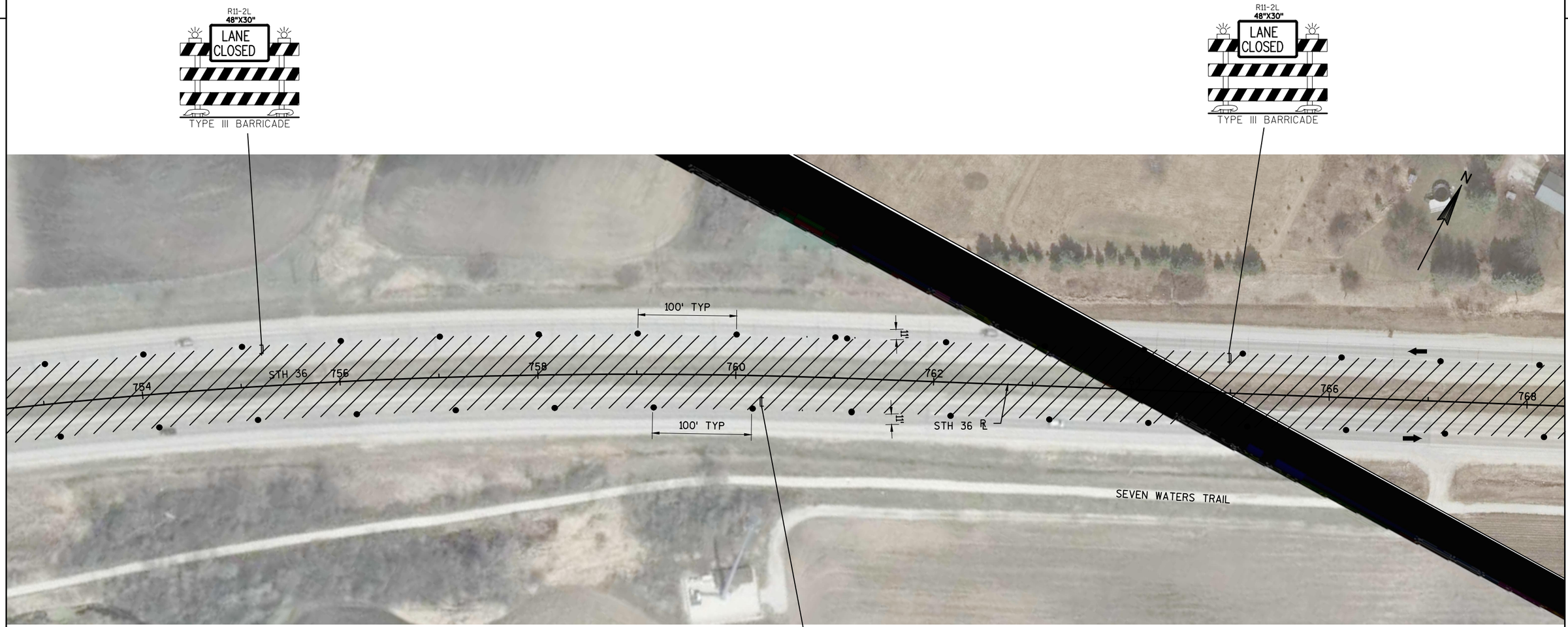
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026201_P2S1.DWG
LAYOUT NAME - (07)_P2S1

PLOT DATE : 1/19/2016 2:07 PM

PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
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- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO:2240-13-60	HWY:STH 36	COUNTY:RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 206	E

2

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20-L
36"X54"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1-A

PLACE ONLY FOR THE TIME BETWEEN MILLING AND PAVING OF INTERSECTION.

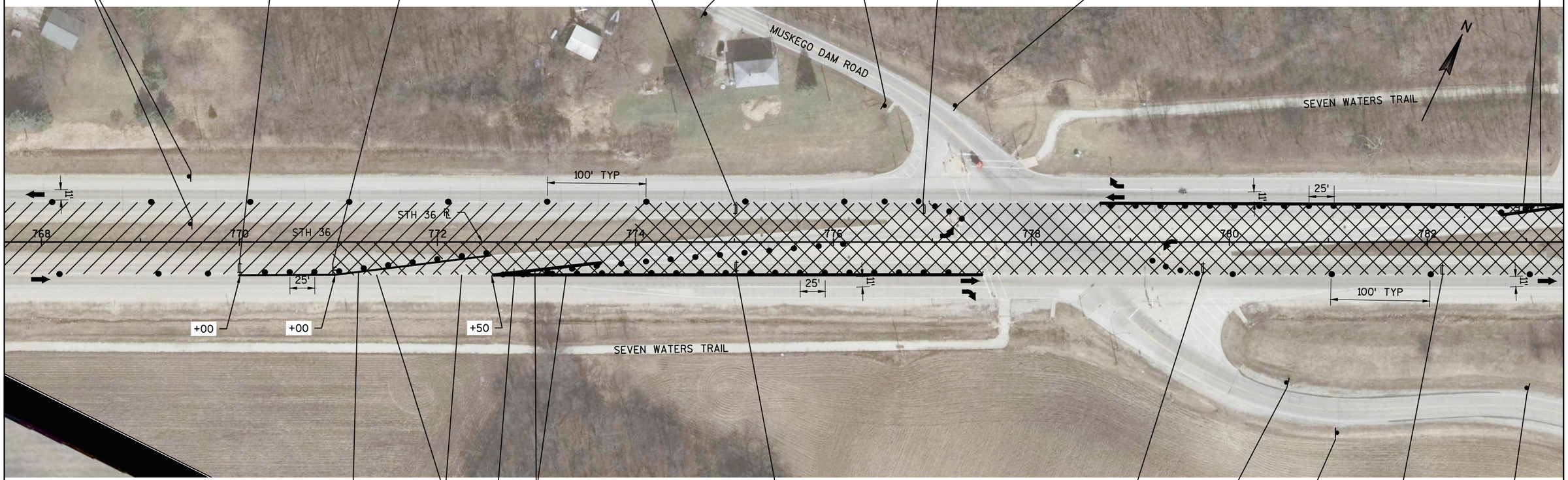
BUMP
W08-1

W01-6
48" X 24"
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

3



1 4 WO12-1D 24"X24" 3

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W01-6
48" X 24"
TYPE III BARRICADE

BUMP
W08-1

END ROAD WORK
G20-2A
48"X24"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1-A

PLACE ONLY FOR THE TIME BETWEEN MILLING AND PAVING OF INTERSECTION.

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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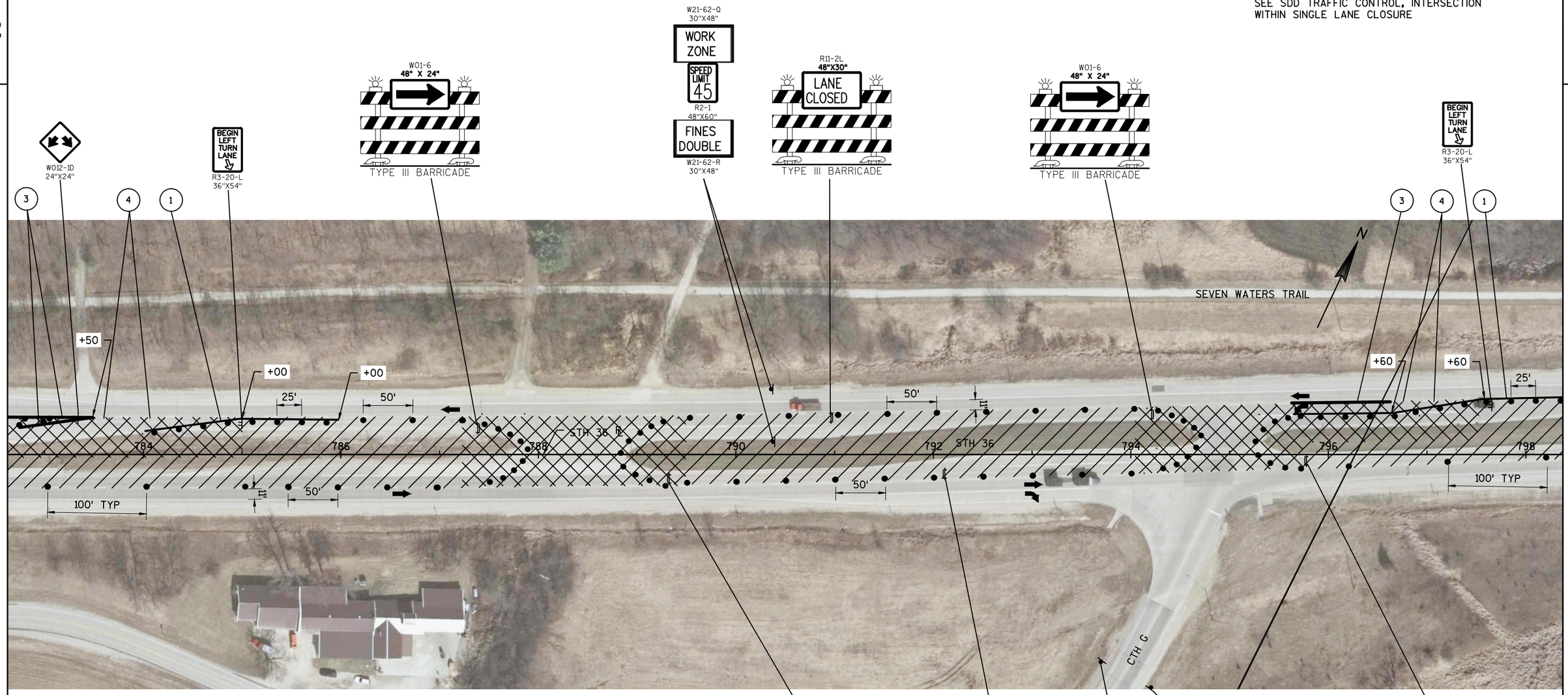
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026201_P2S1.DWG
LAYOUT NAME - (09)_P2S1
PLOT DATE : 1/19/2016 2:07 PM
PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
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PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 208	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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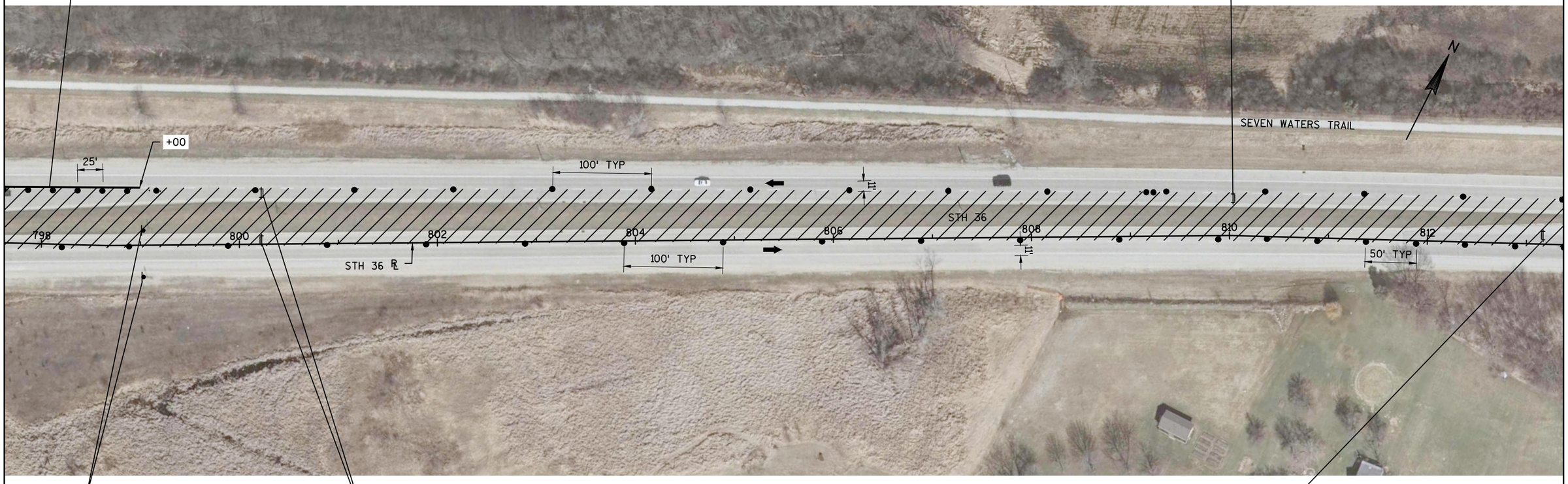
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 209	E

2

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
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PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 210	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026202_P2S1.DWG
LAYOUT NAME - (12)_P2S1

PLOT DATE : 1/19/2016 2:08 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W01-6
48" X 24"
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20-L
36"X54"

BUMP
W08-1

PLACE ONLY FOR THE TIME BETWEEN MILLING AND PAVING OF INTERSECTION.

ROAD WORK AHEAD
W20-1-A

END ROAD WORK
G20-2A
48"X24"

END
1
+00

THODE DRIVE

SEVEN WATERS TRAIL

STH 36

828 830 832 834 836 838 840 842

+50 +25 +00

25' 100' TYP 11'

BEGIN
1
+00

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026202_P2S1.DWG
LAYOUT NAME - (13)_P2S1
PLOT DATE : 1/19/2016 2:08 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

WORK ZONE

AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS.
(FLAGGING REQUIRED FOR OFF PEAK HOURS)

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
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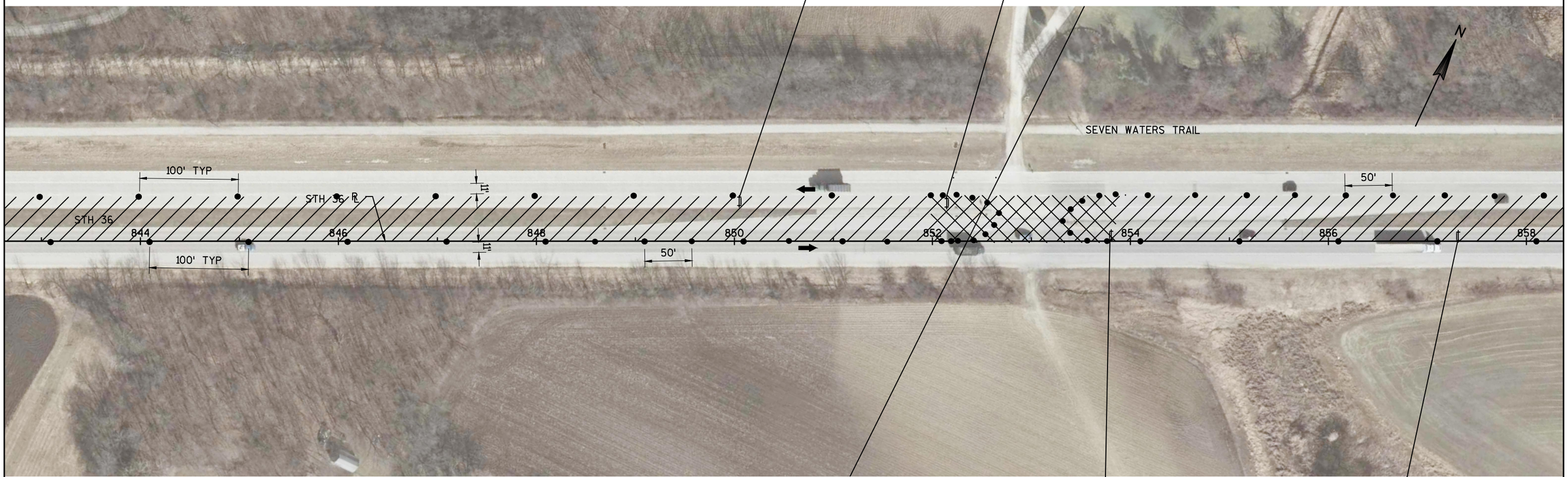
4. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

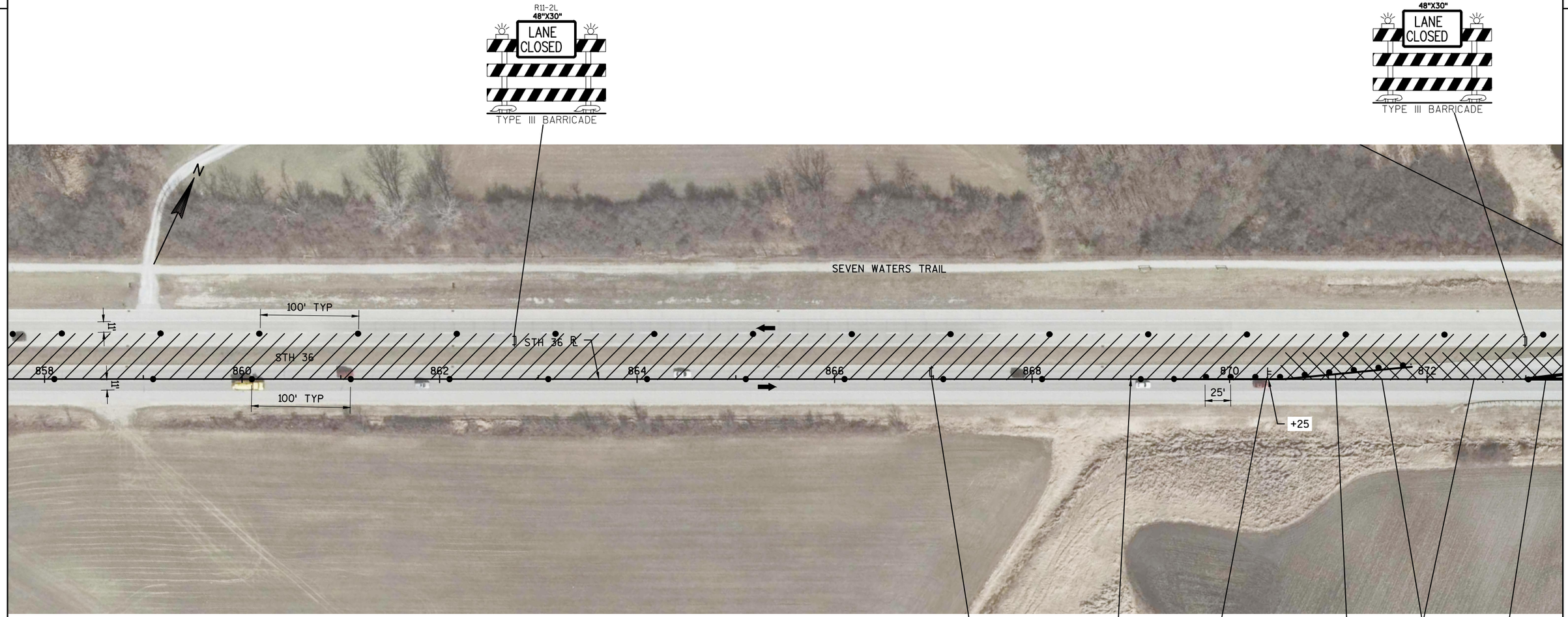


SINGLE LANE CLOSURE THRU MEDIAN OPENING
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

PROJECT NO:2240-13-60	HWY:STH 36	COUNTY:RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 212	E

2

SINGLE LANE CLOSURE THRU MEDIAN OPENINGS
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
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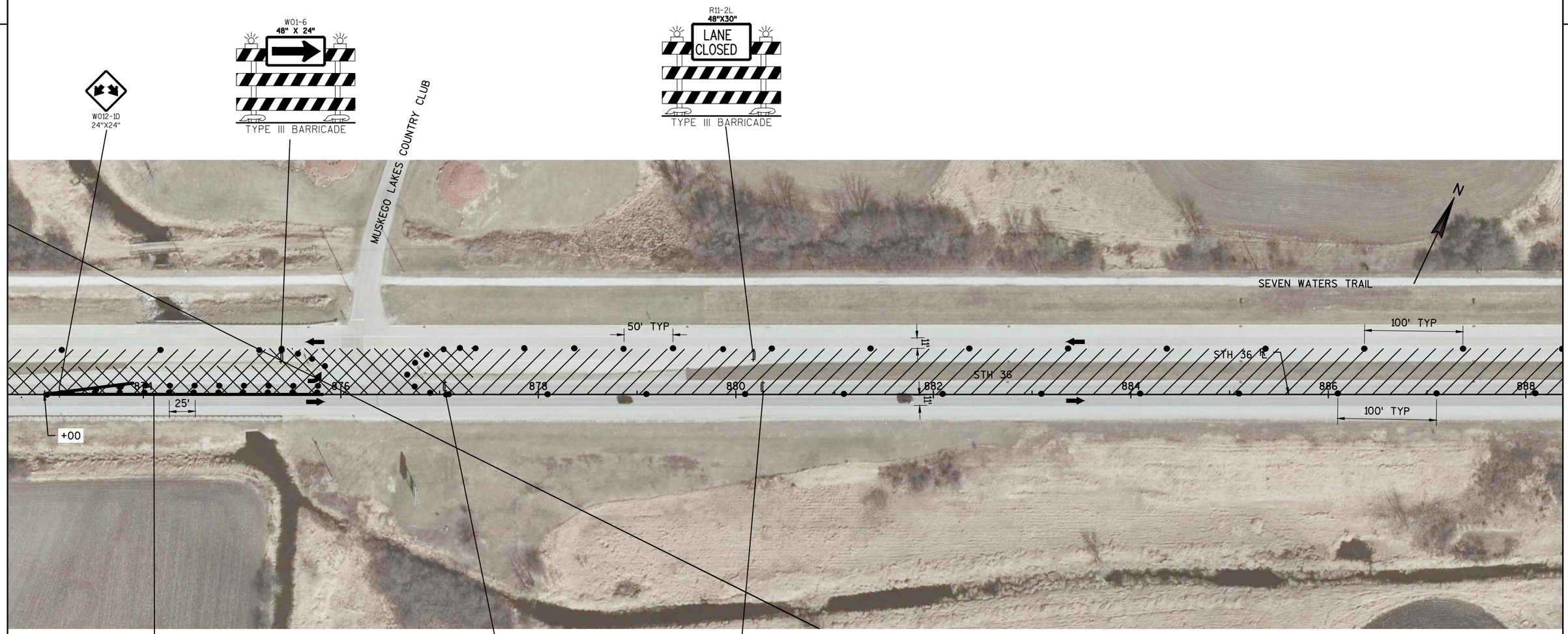
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 213	E

SINGLE LANE CLOSURE THRU MEDIAN OPENING
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
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- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 214	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

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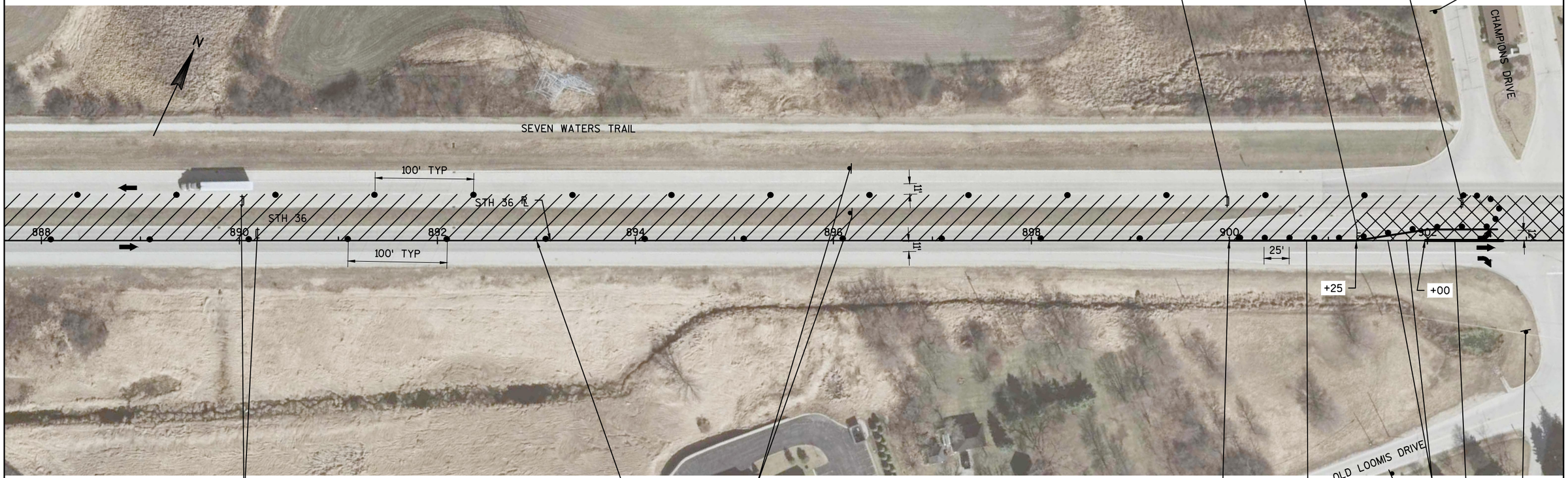
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

SEE TRAFFIC CONTROL: CROSS OVER SHEETS FOR DETAILS ON CROSS OVER TRAFFIC CONTROL AND HOW IT CONNECTS TO STAGE 1 TRAFFIC CONTROL.
-USE THESE SHEETS FOR CROSS OVER REMOVAL.



R11-2L 48"X30" LANE CLOSED — TYPE III BARRICADE

R3-20-L 36"X54" BEGIN LEFT TURN LANE

W01-6 48" X 24" — TYPE III BARRICADE

W20-1-A ROAD WORK AHEAD

R11-2L 48"X30" LANE CLOSED — TYPE III BARRICADE

SEE TRAFFIC CONTROL STAGE 1 TO STAGE A AND STAGE 1 TO STAGE B FOR RECONSTRUCTION TRAFFIC CONTROL WHILE TEMPORARY CROSSOVER IS IN USE.

W21-62-Q 30"X48" WORK ZONE

R2-1 48"X60" SPEED LIMIT 45

W21-62-R 30"X48" FINES DOUBLE

BEGIN (1) +00

(1)

OLD LOOMIS DRIVE

(4) (3)

W20-1-A ROAD WORK AHEAD

G20-2A 48"X24" END ROAD WORK

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 215	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
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- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

SEE TRAFFIC CONTROL: CROSS OVER SHEETS FOR DETAILS ON CROSS OVER TRAFFIC CONTROL AND HOW IT CONNECTS TO STAGE 1 TRAFFIC CONTROL. -USE THESE SHEETS FOR CROSS OVER REMOVAL.

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W01-6
48" X 24"
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1-A

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

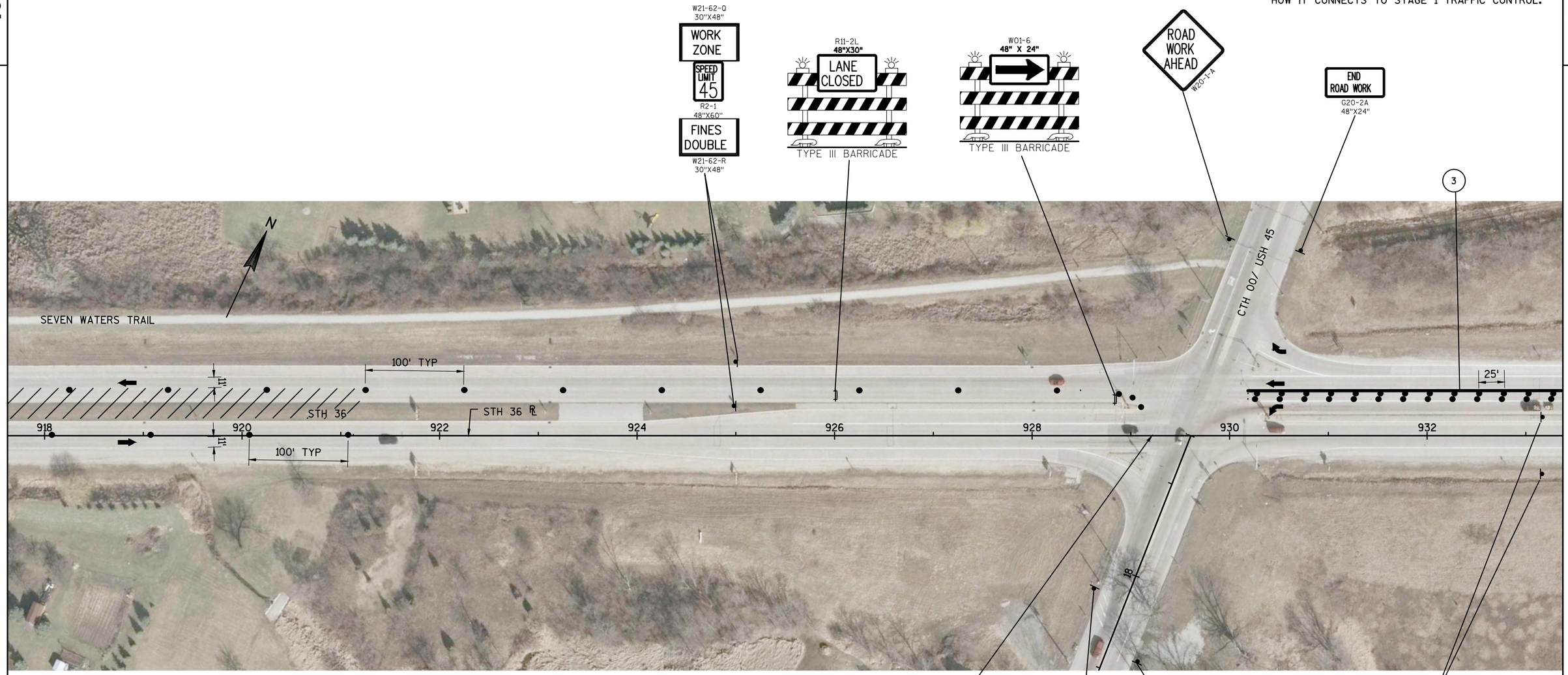
R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 216	E

2

SEE TRAFFIC CONTROL: CROSS OVER SHEETS FOR DETAILS ON CROSS OVER TRAFFIC CONTROL AND HOW IT CONNECTS TO STAGE 1 TRAFFIC CONTROL.



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

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- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

PROJECT NO:2240-13-60	HWY:STH 36	COUNTY:RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 217	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
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- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 218	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026202_P2S1.DWG
LAYOUT NAME - (20)_P2S1

PLOT DATE : 1/19/2016 2:08 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
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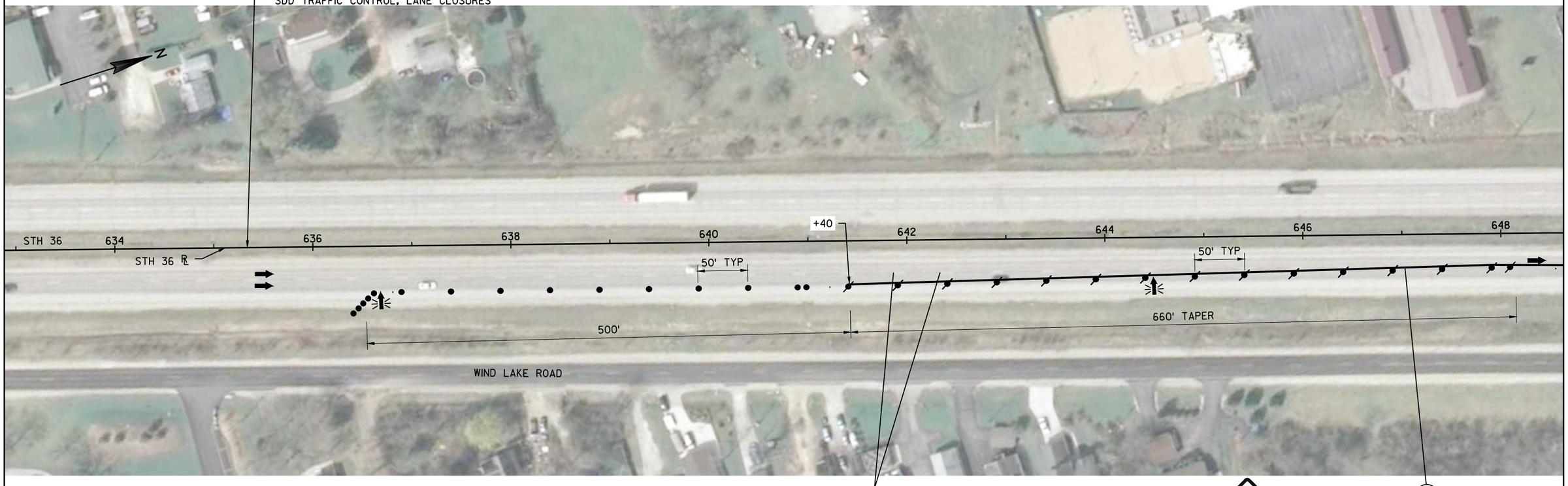
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO:2240-13-60	HWY: STH 36	COUNTY:RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 1	SHEET 219	E

2

FOR ADVANCED WARNING SIGNS
SEE TEMPORARY SPEED LIMITS DETAIL AND
SDD TRAFFIC CONTROL, LANE CLOSURES



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PLACE
MAX.
14
WIDTH
W12-52
48"X48"
6 MILES
AHEAD
W057-52
48"X36"

1000' PRIOR TO STH 36 & STH 20 INTERSECTION

PLACE
MAX.
14
WIDTH
W12-52
48"X48"
WIDE LOADS
EXCEEDING
14 FT
R12-70
96"X42"
M06-1
21"X21"

500' PRIOR TO STH 36 & STH 20 INTERSECTION

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 220	E

2

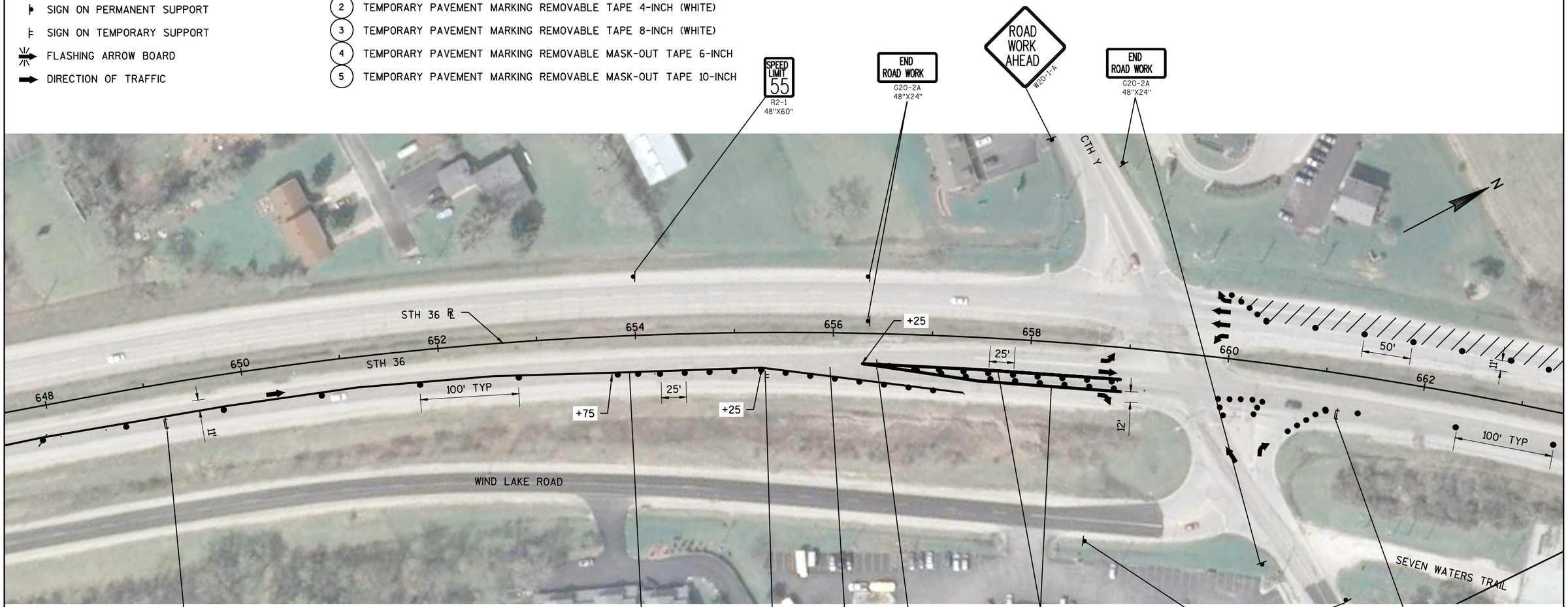
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
3. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE



R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

2

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 221	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026204_P2S2.DWG
LAYOUT NAME - (01)_P2S2

PLOT DATE : 1/19/2016 2:29 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 222	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
3. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 223	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026204_P2S2.DWG
LAYOUT NAME - (03)_P2S2

PLOT DATE : 1/19/2016 2:30 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO:2240-13-60	HWY:STH 36	COUNTY:RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 224	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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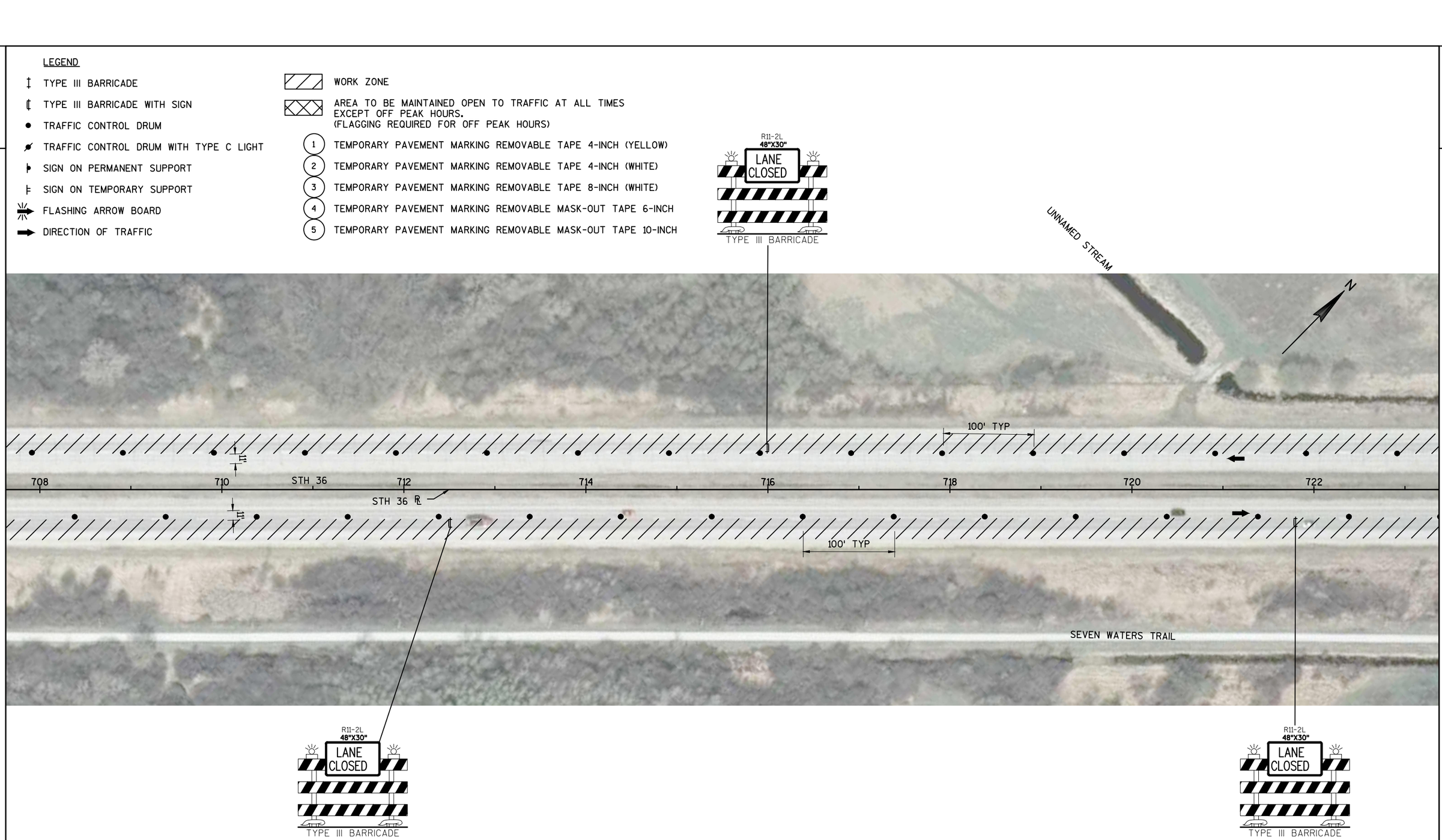
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH



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PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 225	E

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 226	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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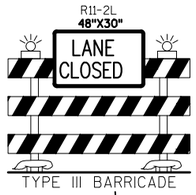
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 227	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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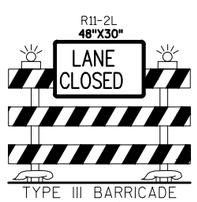
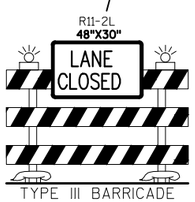
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

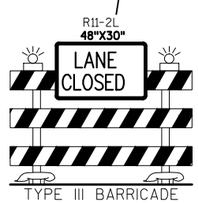


TYPE III BARRICADE

TYPE III BARRICADE



TYPE III BARRICADE



TYPE III BARRICADE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 228	E

2

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

ROAD WORK AHEAD
W20-1-A

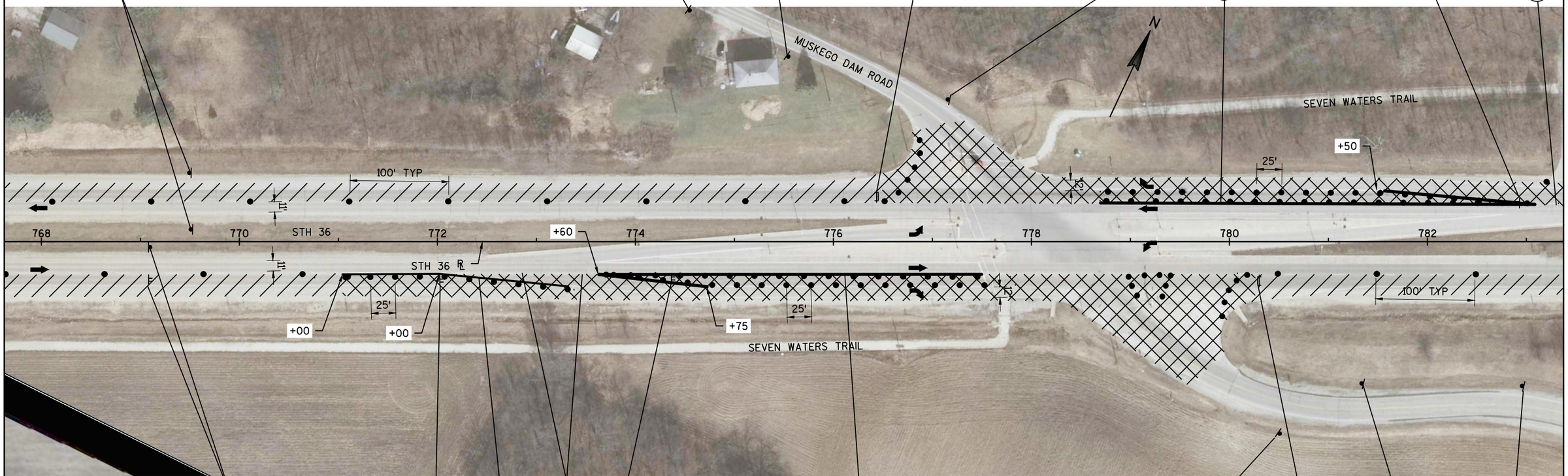
PLACE ONLY FOR THE TIME
BETWEEN MILLING AND PAVING
OF INTERSECTION.

BUMP
W08-1

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

W012-1D
24"X24"



MAX. 14' WIDTH
W12-52
48"X48"

BEGIN RIGHT TURN LANE
R3-20-R
36"X54"

W012-1D
24"X24"

END ROAD WORK
G20-2A
48"X24"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

BUMP
W08-1

ROAD WORK AHEAD
W20-1-A

PLACE ONLY FOR THE TIME
BETWEEN MILLING AND PAVING
OF INTERSECTION.

WORK ZONE

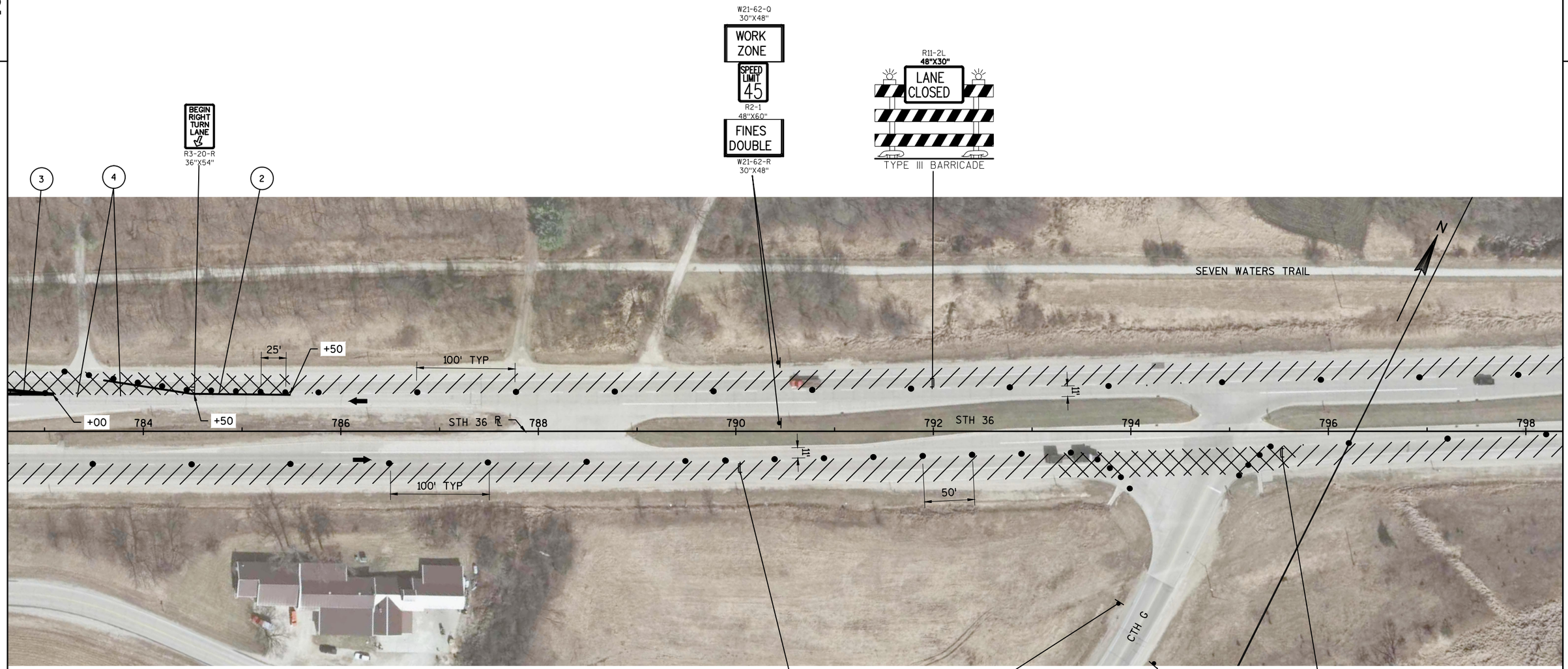
AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES
EXCEPT OFF PEAK HOURS.
(FLAGGING REQUIRED FOR OFF PEAK HOURS)

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
3. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 229	E

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
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- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 230	E

2

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W21-62-O
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 231	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)

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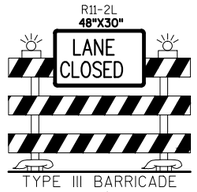
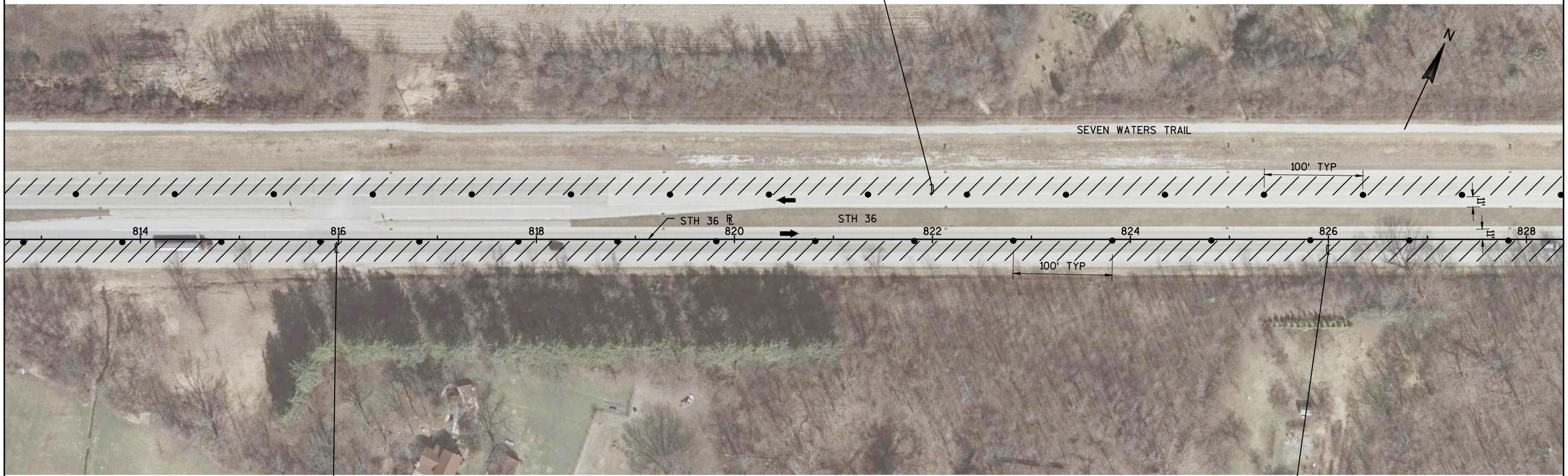
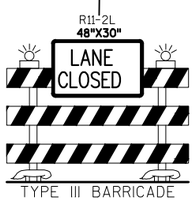
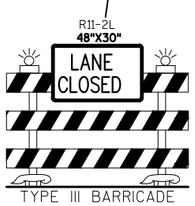
3. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH









PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 232 E

2

PLACE ONLY FOR THE TIME BETWEEN MILLING AND PAVING OF INTERSECTION.

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
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- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

W21-62-Q 30"X48" — WORK ZONE / SPEED LIMIT 45 / R2-1 48"X60" / FINES DOUBLE / W21-62-R 30"X48"

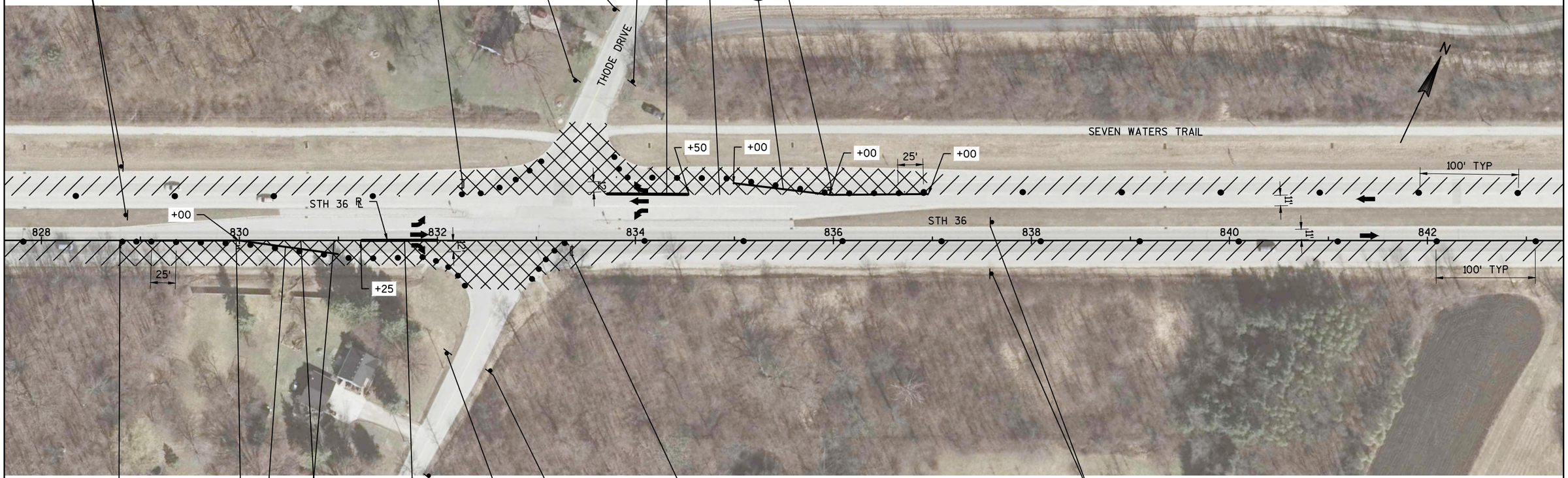
R11-2L 48"X30" — LANE CLOSED — TYPE III BARRICADE

BUMP W08-1

ROAD WORK AHEAD W20-1-A

END ROAD WORK G20-2A 48"X24"

BEGIN RIGHT TURN LANE R3-20-R 36"X54"



BEGIN (2) +75

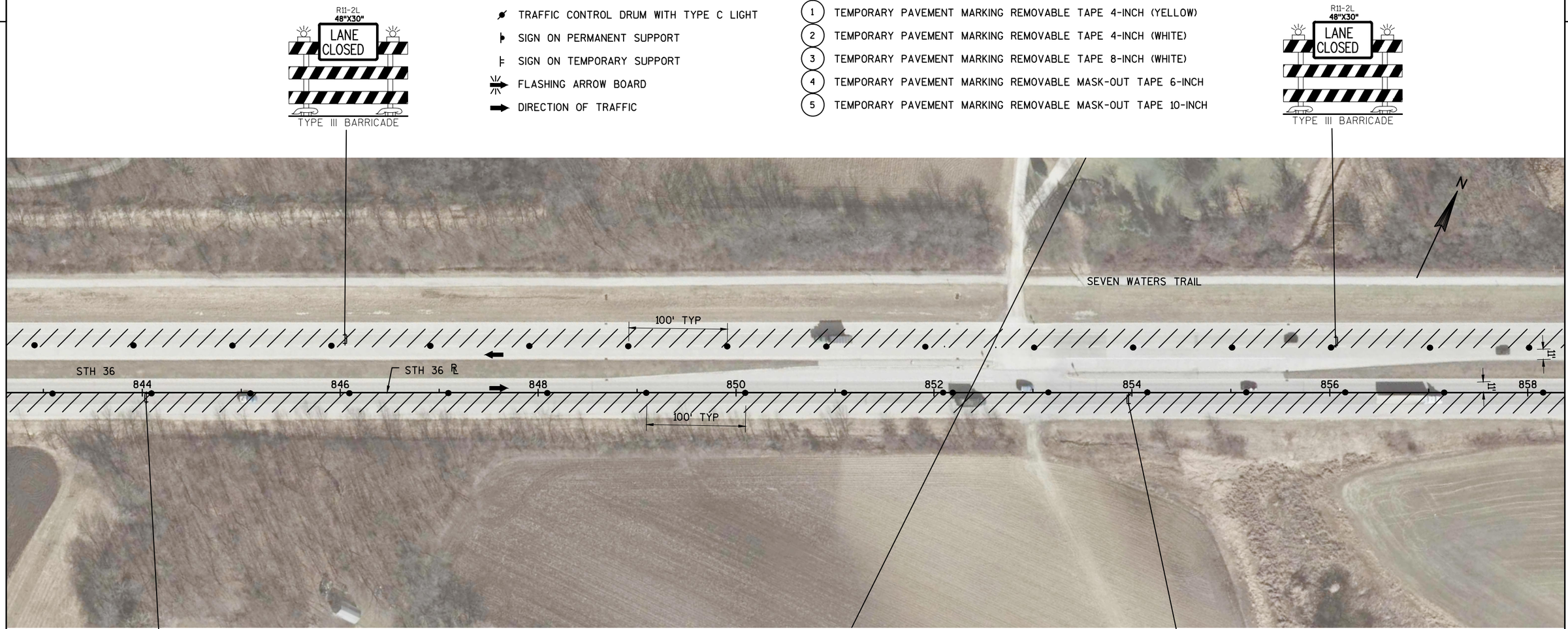
SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 233	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH



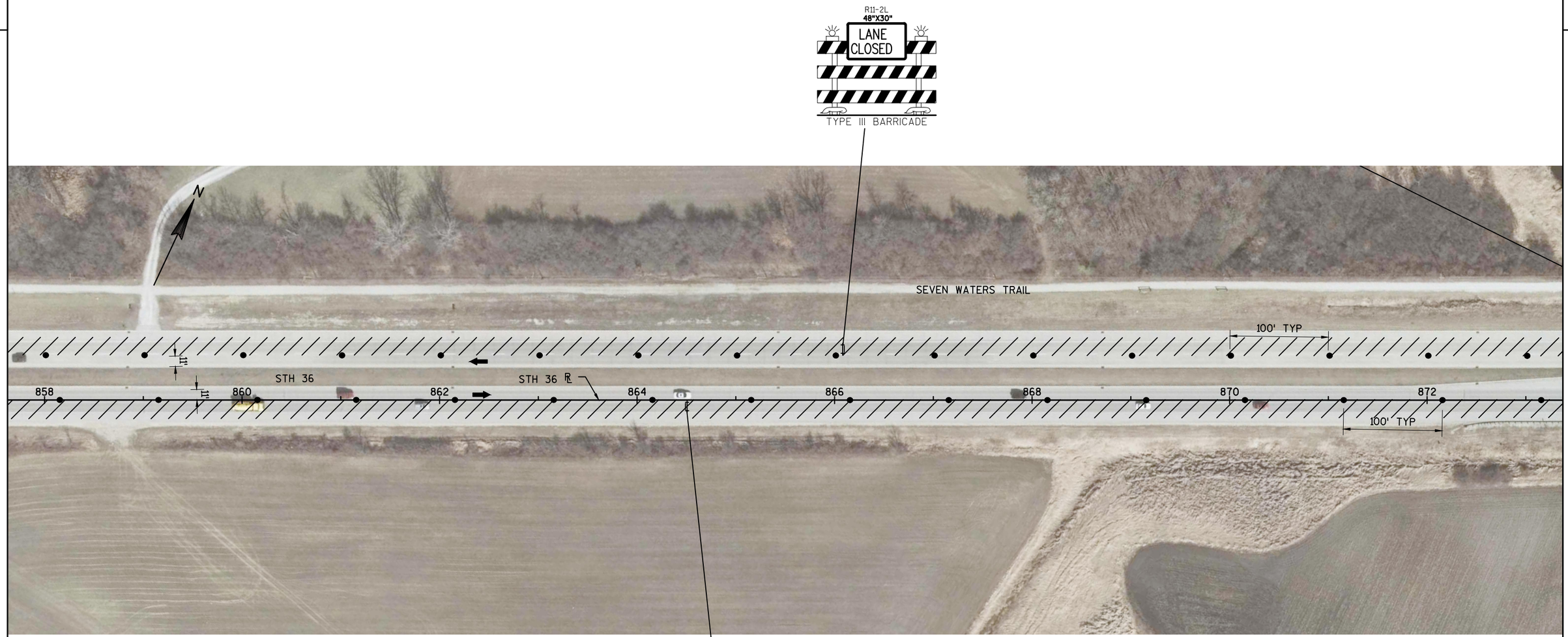
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 234	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026205_P2S2.DWG
LAYOUT NAME - (14)_P2S2

PLOT DATE : 1/19/2016 2:30 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

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- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

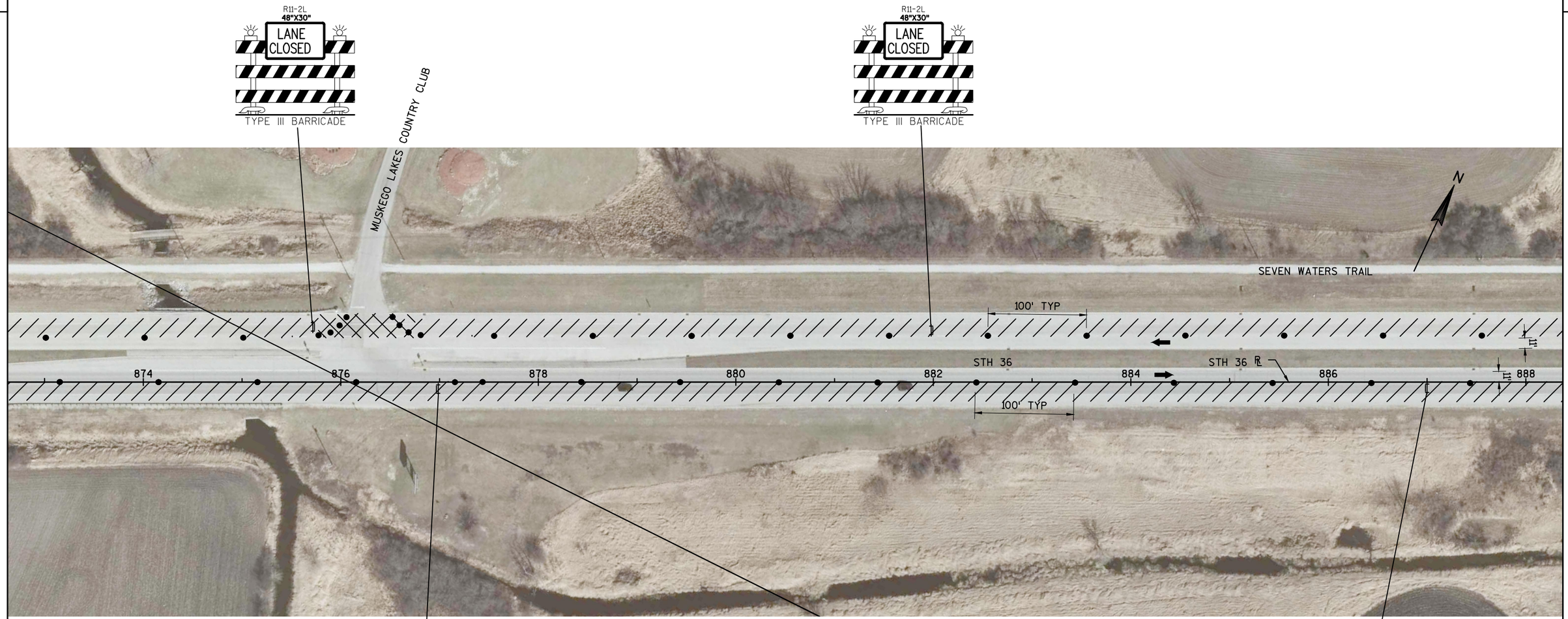
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 235	E

2

SEE TRAFFIC CONTROL: CROSS OVER SHEETS
FOR DETAILS ON CROSS OVER TRAFFIC CONTROL
AND HOW IT CONNECTS TO STAGE 2 TRAFFIC CONTROL.

USE THESE SHEETS FOR CROSS OVER
CONSTRUCTION AND REMOVAL

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

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5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 236	E

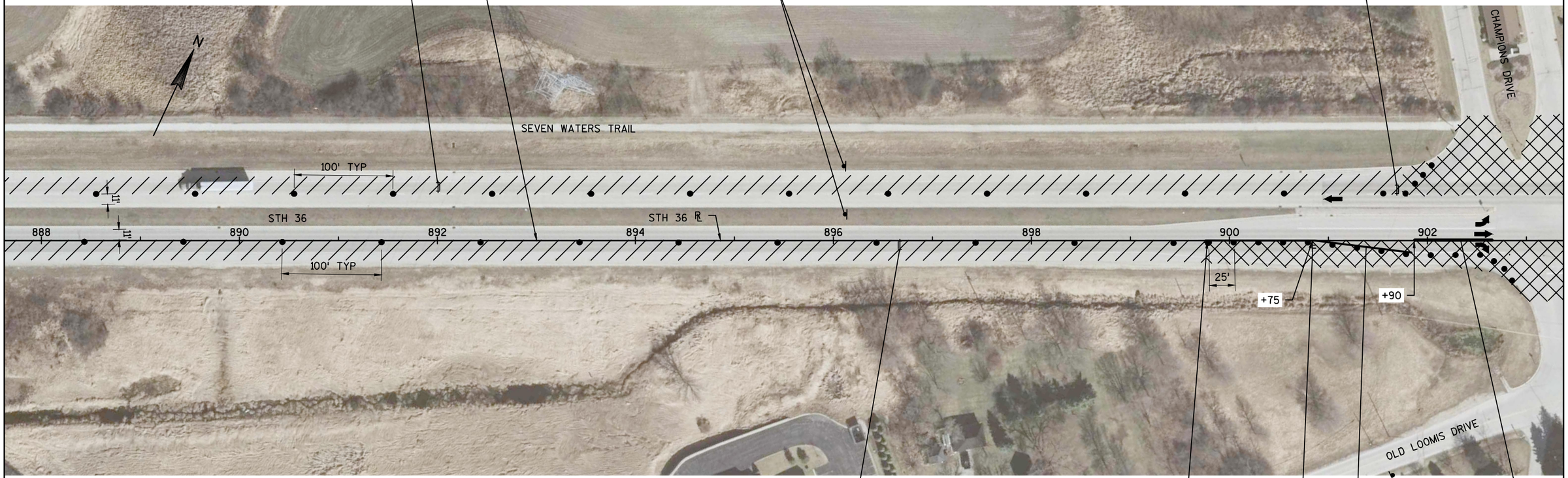
SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

SEE TRAFFIC CONTROL STAGE 2 TO STAGE A
AND STAGE 2 TO STAGE B
FOR RECONSTRUCTION TRAFFIC CONTROL
WHILE TEMPORARY CROSSOVER IS IN USE.

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE



R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

BEGIN
2
+75

BEGIN RIGHT TURN LANE
R3-20-R
36"X54"

ROAD WORK AHEAD
W20-1-A

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

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- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 237	E

2

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
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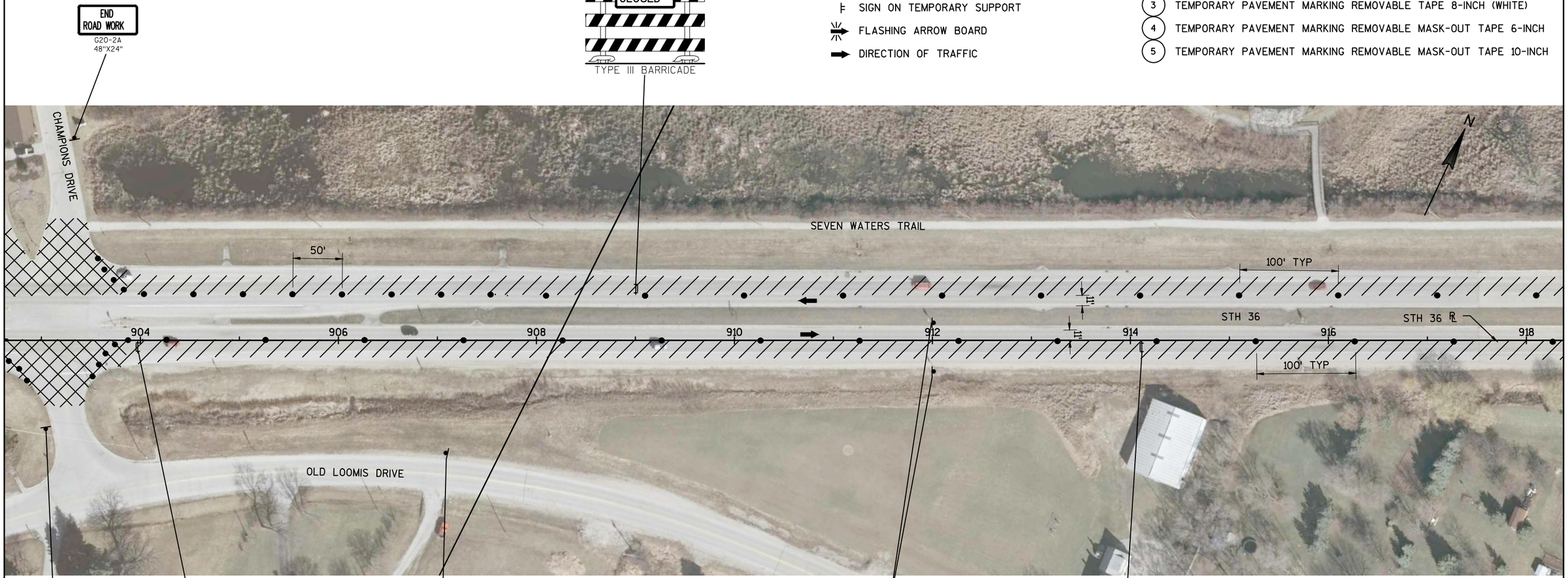

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 238	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC

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5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

SINGLE LANE CLOSURE THRU INTERSECTION
SEE SDD TRAFFIC CONTROL, INTERSECTION
WITHIN SINGLE LANE CLOSURE

2

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W21-62-Q
30"X48"
WORK ZONE
SPEED LIMIT 45
R2-1
48"X60"
FINES DOUBLE
W21-62-R
30"X48"

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1-A

END ROAD WORK
G20-2A
48"X24"

3

N

SEVEN WATERS TRAIL

CTH OO/ USH 45

100' TYP

STH 36

STH 36 ℄

25'

18'

918 920 922 924 926 928 930 932

100' TYP

SEE TRAFFIC CONTROL STAGE 2 TO STAGE A
AND STAGE 2 TO STAGE B
FOR RECONSTRUCTION TRAFFIC CONTROL
WHILE TEMPORARY CROSSOVER IS IN USE.

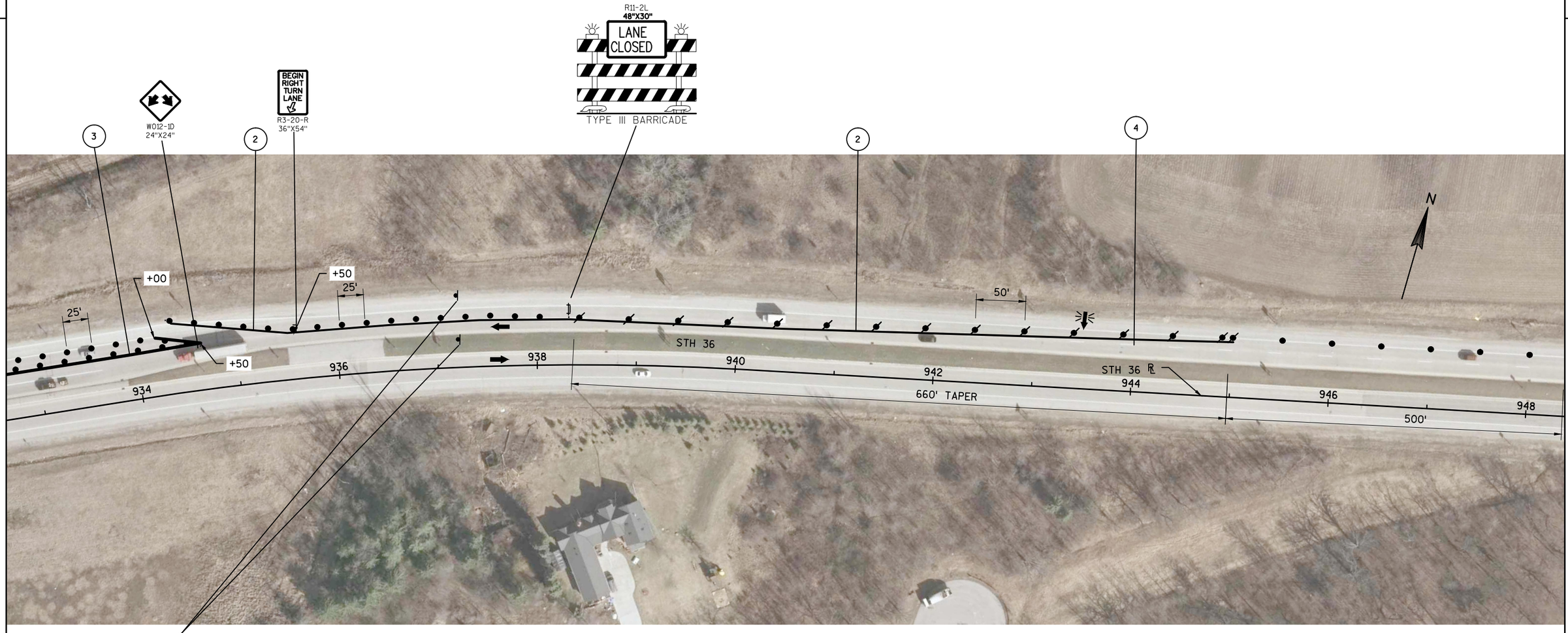
ROAD WORK AHEAD
W20-1-A

END ROAD WORK
G20-2A
48"X24"

PROJECT NO:2240-13-60	HWY:STH 36	COUNTY:RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026205_P2S2.DWG
LAYOUT NAME - (19)_P2S2
PLOT DATE : 1/19/2016 2:30 PM
PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2



W12-52
48"X48"

WIDE LOADS EXCEEDING 14 FT

R12-70
96"X42"

M06-1
21"X21"

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
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- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 240	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK ZONE
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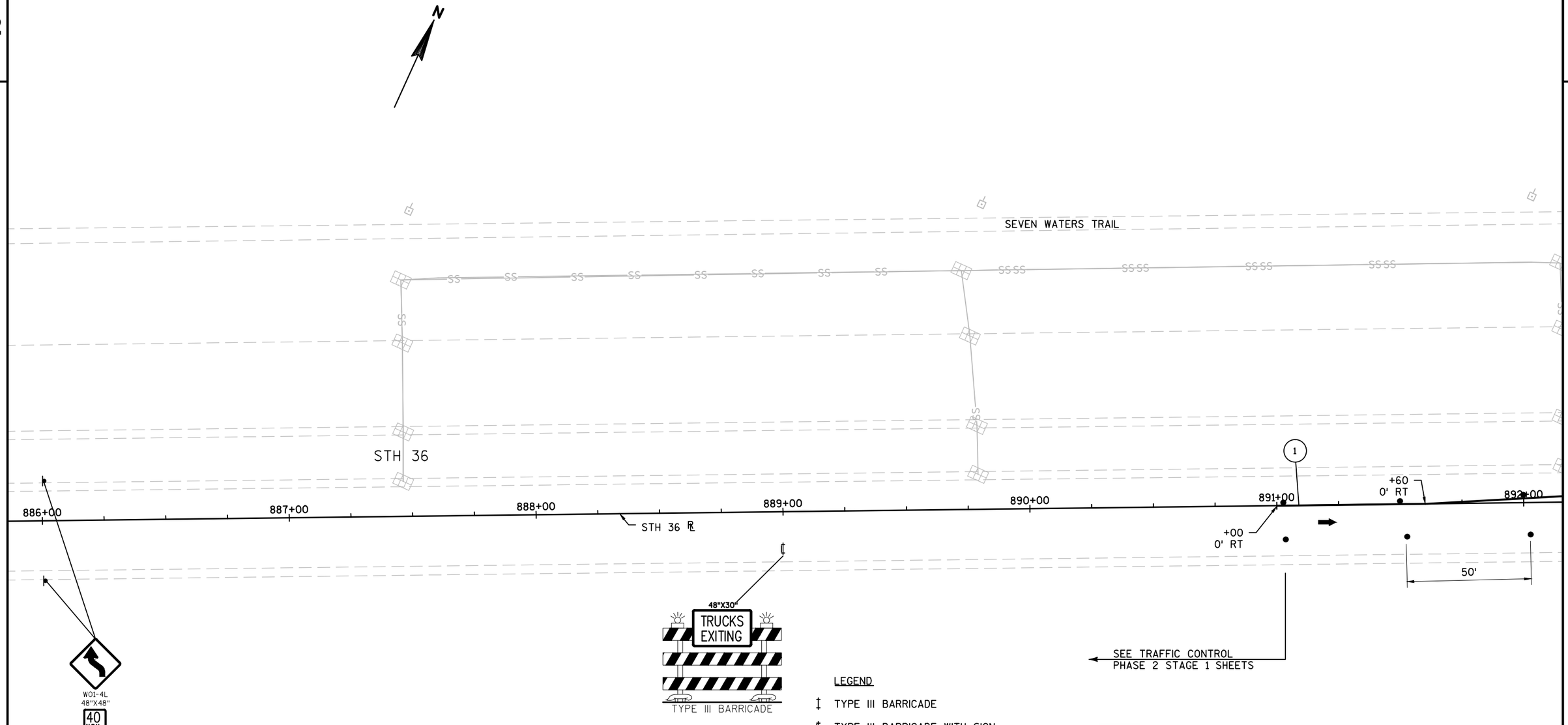
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MILW	TRAFFIC CONTROL - PHASE 2 STAGE 2	SHEET 241	E

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- DELINEATOR FLEXIBLE/ TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST WITH SINGLE DELINEATOR)
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- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC CONTROL - PHASE 2 STAGE 1 TO STAGE A	SHEET 242	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- DELINEATOR FLEXIBLE/ TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST WITH SINGLE DELINEATOR)

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- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

N

R11-2L 48"X30" LANE CLOSED — TYPE III BARRICADE

W01-6 48"X24" — TYPE III BARRICADE

SEVEN WATERS TRAIL

SEE TRAFFIC CONTROL PHASE 2 STAGE 1 SHEETS

TEMPORARY RAISED PAVEMENT MARKERS (WHITE) SPACED AT 25' STA 895+60 TO STA 897+00

TEMPORARY RAISED PAVEMENT MARKERS (YELLOW) SPACED AT 25' STA 895+60 TO STA 897+00

+60 60' LT

+50 64' LT

REMOVE PAVEMENT MARKINGS

50' | 12'

+50 48' LT | 25' | +60 48' LT

+50 52' LT | +00 30' LT | 25' | 12'

3300' R | 25' | 3300' R | 3285' R

TEMPORARY RAISED PAVEMENT MARKERS (YELLOW) SPACED AT 25' STA 891+00 TO STA 900+45

STH 36

+00 15' LT | 15' | +00 15' LT | 3315' R

893+00 | 894+00 | 895+00 | 896+00 | 897+00 | 898+00

+00 0' RT | 25' | STH 36 ℄

+30 12' RT | 50'

TEMPORARY RAISED PAVEMENT MARKERS (WHITE) SPACED AT 25' STA 892+30 TO STA 901+14

REMOVE PAVEMENT MARKINGS

W01-6 48"X24" — TYPE III BARRICADE

W01-6 48"X24" — TYPE III BARRICADE

R11-2 48" X 30" ROAD CLOSED — TYPE III BARRICADE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC CONTROL - PHASE 2 STAGE 1 TO STAGE A	SHEET 243	E

SEE CONSTRUCTION STAGING STAGE A DETAIL FOR STA 904+00 TO STA 917+00 AND SDD TRAFFIC CONTROL, SINGLE LANE CROSS OVER EXIT

ROAD WORK AHEAD W20-1-A
500'
ROAD WORK 500 FT W20-3-D
500'
ONLY R3-50-R 30"X36"
CHAMPIONS DRIVE
END ROAD WORK G20-2A 48"X24"
R3-2 24"X24"
W06-1
R3-2 24"X24"
SEVEN WATERS TRAIL
W01-4L 48"X48"
40 M.P.H. W013-1 36"X36"
TEMPORARY RAISED PAVEMENT MARKERS (YELLOW) SPACED AT 25' STA 891+00 TO STA 900+45
REMOVING PAVEMENT MARKINGS
REMOVE PAVEMENT MARKINGS
25'
12'
4"
12'
25'
3300' R
+02 32.7' LT
50'
+45 48' LT
+14 36' LT
3285' R
REMOVING PAVEMENT MARKINGS
899+00
900+00
901+00
902+00
903+00
904+00
STH 36
STH 36
TEMPORARY RAISED PAVEMENT MARKERS (WHITE) SPACED AT 25' STA 892+30 TO STA 901+14
W6-3 48"X48"
R3-2 24"X24"
R3-1 24"X24"
R11-2 48" X 30" ROAD CLOSED
TYPE III BARRICADE
W01-6 48"X24"
TYPE III BARRICADE
ROAD CLOSED AHEAD W20-3-A
ROAD WORK 500 FT W20-3-D
R3-1 24"X24"
500'
500'
ROAD CLOSED AHEAD W20-3-A
ROAD WORK 500 FT W20-3-D
500'
R3-2 24"X24"
500'
LOOMIS DRIVE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- DELINEATOR FLEXIBLE/ TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST WITH SINGLE DELINEATOR)
- WORK ZONE
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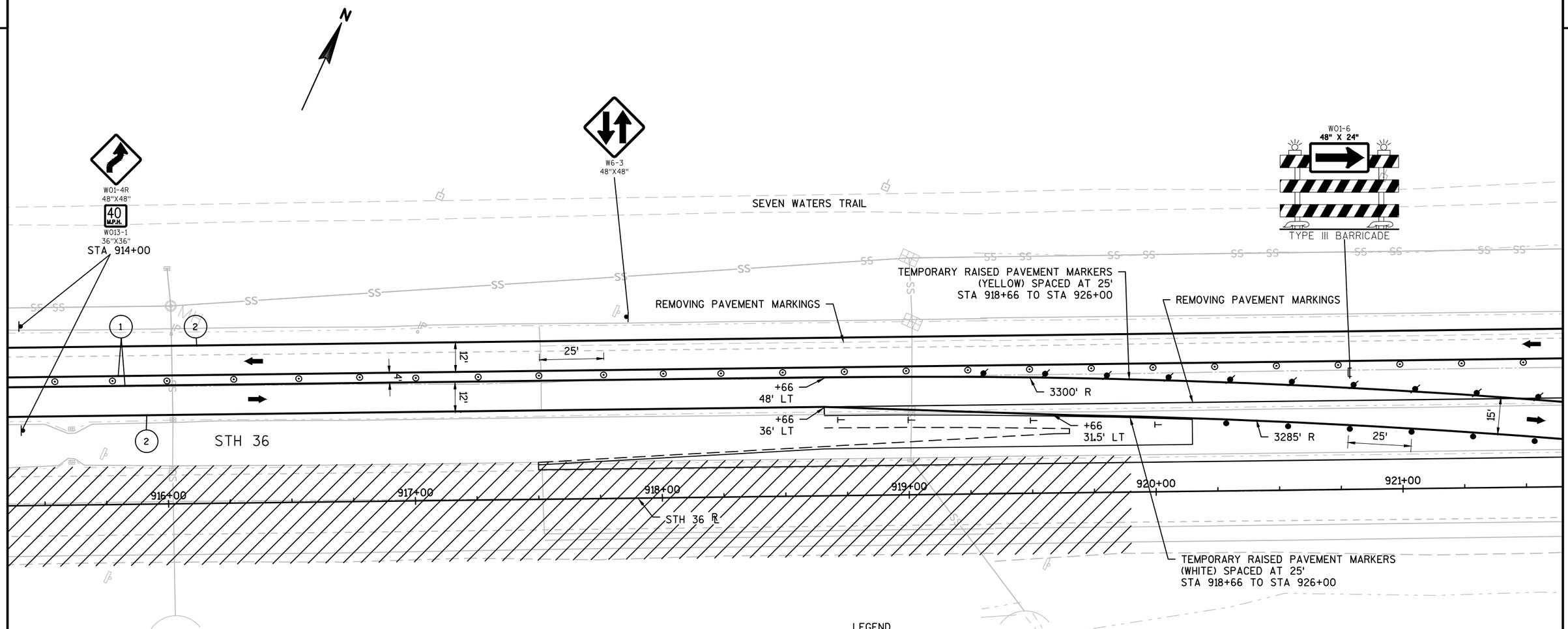
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC CONTROL - PHASE 2 STAGE 1 TO STAGE A	SHEET 244	E

SEE CONSTRUCTION STAGING
STAGE A DETAIL FOR
STA 904+00 TO STA 917+00
AND SDD TRAFFIC CONTROL,
SINGLE LANE CROSS OVER EXIT



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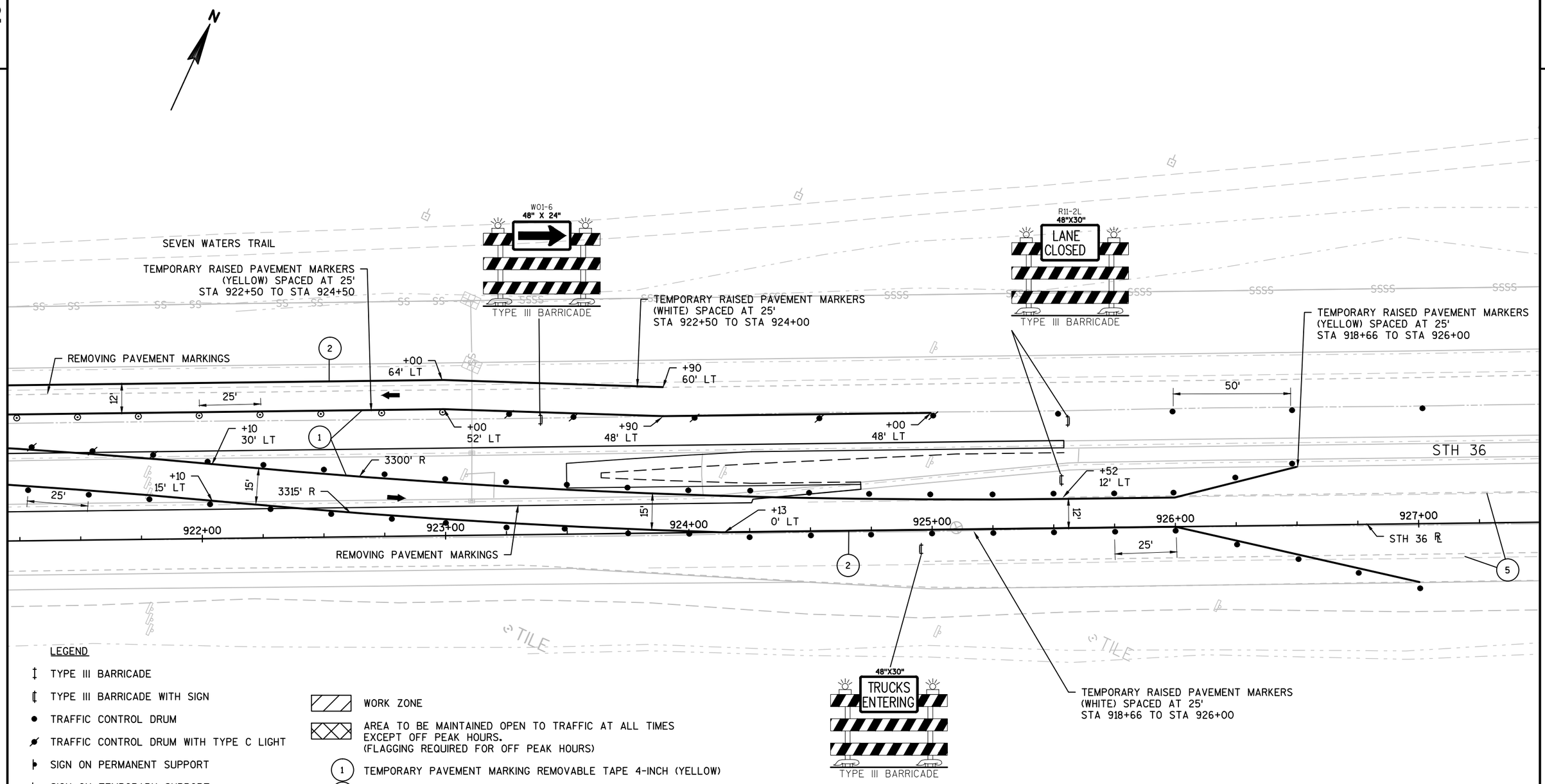
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC CONTROL - PHASE 2 STAGE 1 TO STAGE A	SHEET 245	E

2



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- TYPE III BARRICADE WITH SIGN
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5. TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC CONTROL - PHASE 2 STAGE 1 TO STAGE A	SHEET 246	E

2

CTH OO/
USH 45

N

SEVEN WATERS TRAIL

W01-4R
48"X48"

40
M.P.H.

W013-1
36"X36"

W01-6
48" X 24"

TYPE III BARRICADE

SSSS

MH

SS

SEE TRAFFIC CONTROL
PHASE 2 STAGE 1
SHEETS

STH 36

928+00 929+00 930+00 931+00 932+00 933+00

STH 36 ℄

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
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- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC CONTROL - PHASE 2 STAGE 1 TO STAGE A	SHEET 247	E

2

SEE TRAFFIC CONTROL
PHASE 2 STAGE 1 SHEETS

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

48"X30"
TRUCKS ENTERING
TYPE III BARRICADE

N

SEVEN WATERS TRAIL

TEMPORARY RAISED PAVEMENT MARKERS
(YELLOW) SPACED AT 25'
STA 891+00 TO STA 901+00

TEMPORARY RAISED PAVEMENT MARKERS
(WHITE) SPACED AT 25'
STA 892+25 TO STA 901+00

+28
60' LT

+00
48' LT

+60
48' LT

50'

15'

+00
48' LT

+00
33' LT

REMOVING PAVEMENT MARKINGS

3315' R

25'

+03
33' LT

3300' R

+02
18' LT

STH 36

892+00

STH 36 ℄

100'

893+00

50'

894+00

BEGIN
+00

12'

895+00

+55
0' RT

+55
12' RT

896+00

+00
2' RT

+00
14' RT

897+00

25'

REMOVING PAVEMENT MARKINGS

TEMPORARY RAISED PAVEMENT MARKERS
(WHITE) SPACED AT 25'
STA 895+50 TO STA 896+25

TEMPORARY RAISED PAVEMENT MARKERS
(YELLOW) SPACED AT 25'
STA 895+00 TO STA 896+25

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W01-6
48" X 24"
TYPE III BARRICADE

W01-4R
48"X48"
40 M.P.H.
W013-1
36"X36"
STA 891+00

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- DELINEATOR FLEXIBLE/ TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST WITH SINGLE DELINEATOR)

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC CONTROL - PHASE 2 STAGE 1 TO STAGE B	SHEET 248	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- DELINEATOR FLEXIBLE/ TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST WITH SINGLE DELINEATOR)

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

SEE SDD BARRICADES AND SIGNS FOR SIDEROAD CLOSURES DETAIL 1

SEE CONSTRUCTION STAGING STAGE B DETAIL FOR STA 904+00 TO STA 917+00 AND SDD TRAFFIC CONTROL, SINGLE LANE CROSS OVER EXIT

R11-2 48" X 30" ROAD CLOSED
TYPE III BARRICADE

CHAMPIONS DRIVE

SEVEN WATERS TRAIL

W01-4R 48"X48"

40 M.P.H. W013-1 36"X36"

R3-1 24"X24"

R3-2 24"X24"

TEMPORARY RAISED PAVEMENT MARKERS (YELLOW) SPACED AT 25' STA 891+00 TO STA 901+00

TEMPORARY RAISED PAVEMENT MARKERS (WHITE) SPACED AT 25' STA 892+25 TO STA 901+00

REMOVING PAVEMENT MARKINGS

STH 36

3285' R

3300' R

+50 12' LT

+50 16.4' LT

+46 0' RT

898+00 899+00 900+00 901+00 902+00 903+00 904+

12' 15' 25' 50' 25' IN INTERSECTION

REMOVING PAVEMENT MARKINGS

REMOVING PAVEMENT MARKING

STH 36 RT

W01-6 48" X 24"
TYPE III BARRICADE

R3-2 24"X24"

R3-50-R ONLY 30"X36"

R3-2 24"X24"

ROAD WORK AHEAD W20-1-A

W6-3 48"X48"

ROAD WORK AHEAD W20-1-A

LOOMIS DRIVE

POST

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC CONTROL - PHASE 2 STAGE 1 TO STAGE B	SHEET 249	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026501B_XOTC.DWG
LAYOUT NAME - ****

PLOT DATE : 1/19/2016 4:17 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

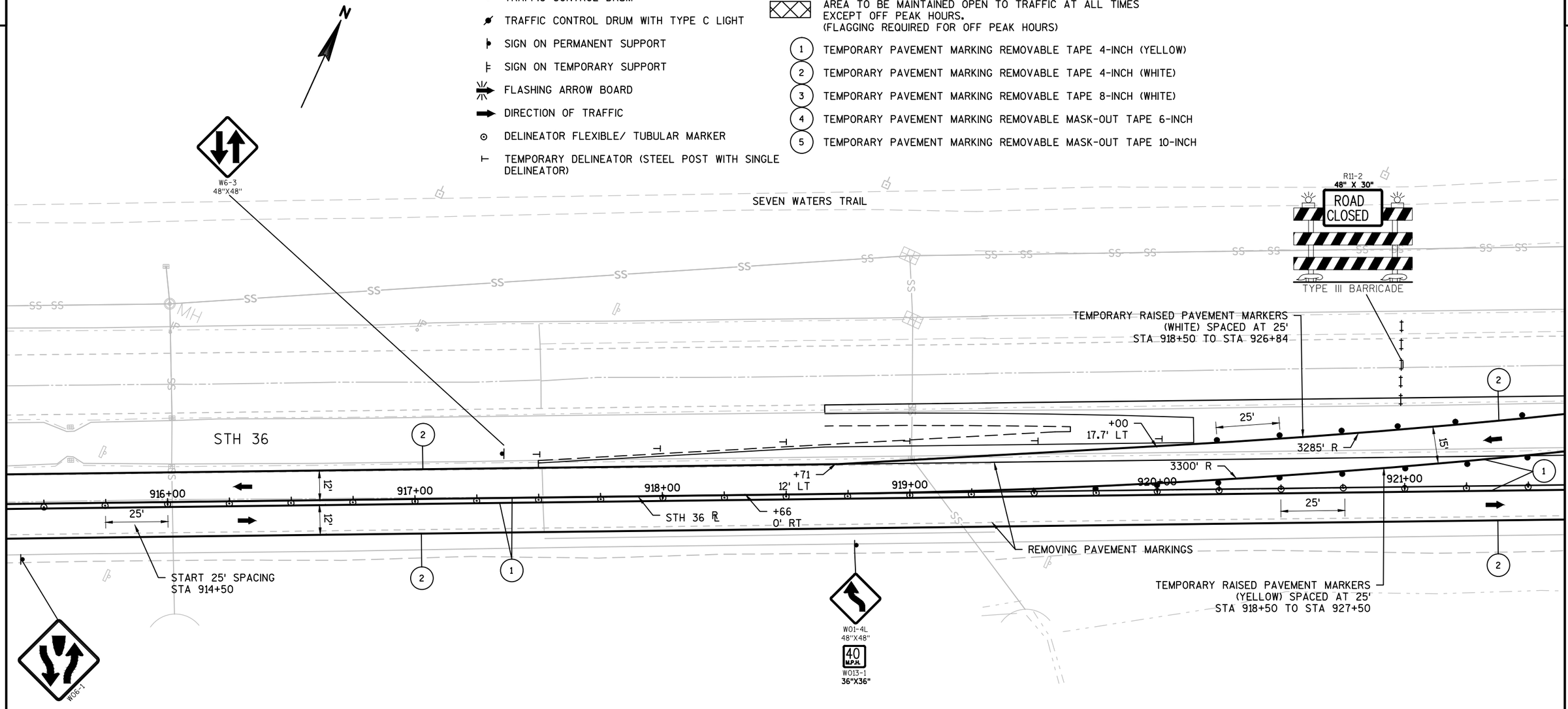
WISDOT/CADDS SHEET 42

SEE CONSTRUCTION STAGING
STAGE B DETAIL FOR
STA 904+00 TO STA 917+00
AND SDD TRAFFIC CONTROL,
SINGLE LANE CROSS OVER EXIT

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- DELINEATOR FLEXIBLE/ TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST WITH SINGLE DELINEATOR)

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC CONTROL - PHASE 2 STAGE 1 TO STAGE B	SHEET 250	E

2

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- DELINEATOR FLEXIBLE/ TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST WITH SINGLE DELINEATOR)

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

N

SEVEN WATERS TRAIL

W01-6 48"X24"

TYPE III BARRICADE

TEMPORARY RAISED PAVEMENT MARKERS (YELLOW) SPACED AT 25' STA 918+50 TO STA 927+50

TEMPORARY RAISED PAVEMENT MARKERS (WHITE) SPACED AT 25' STA 918+50 TO STA 926+84

REMOVING PAVEMENT MARKINGS

+84 60' LT

+00 47.4' LT

+00 32.4' LT

+09 33' LT

+10 18' LT

+75 2' RT

+25 0' RT

+50 48' LT

+00 0' RT

+75 14' RT

+25 12' RT

50'

25'

3315' R

3300' R

15'

12'

922+00

923+00

924+00

925+00

926+00

927+00

STH 36

STH 36 ℄

TILE

TEMPORARY RAISED PAVEMENT MARKERS (YELLOW) SPACED AT 25' STA 922+50 TO STA 923+25

TEMPORARY RAISED PAVEMENT MARKERS (WHITE) SPACED AT 25' STA 922+50 TO STA 923+25

W01-6 48"X24"

TYPE III BARRICADE

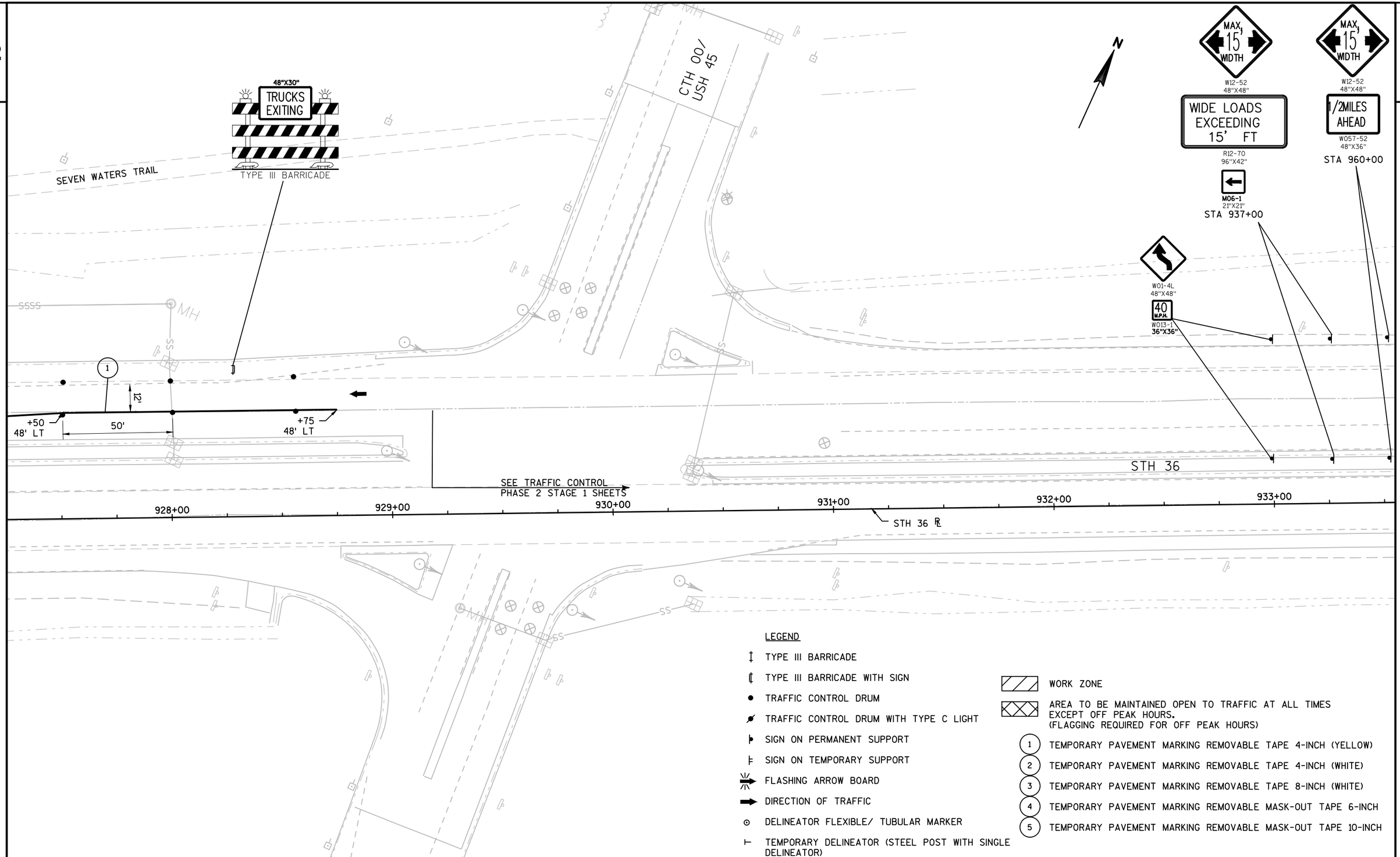
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC CONTROL - PHASE 2 STAGE 1 TO STAGE B	SHEET 251	E

FILE NAME : N:\PDS\C3D\CAD\22401330\026501B_XOTC.DWG
LAYOUT NAME - ****

PLOT DATE : 1/19/2016 4:18 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

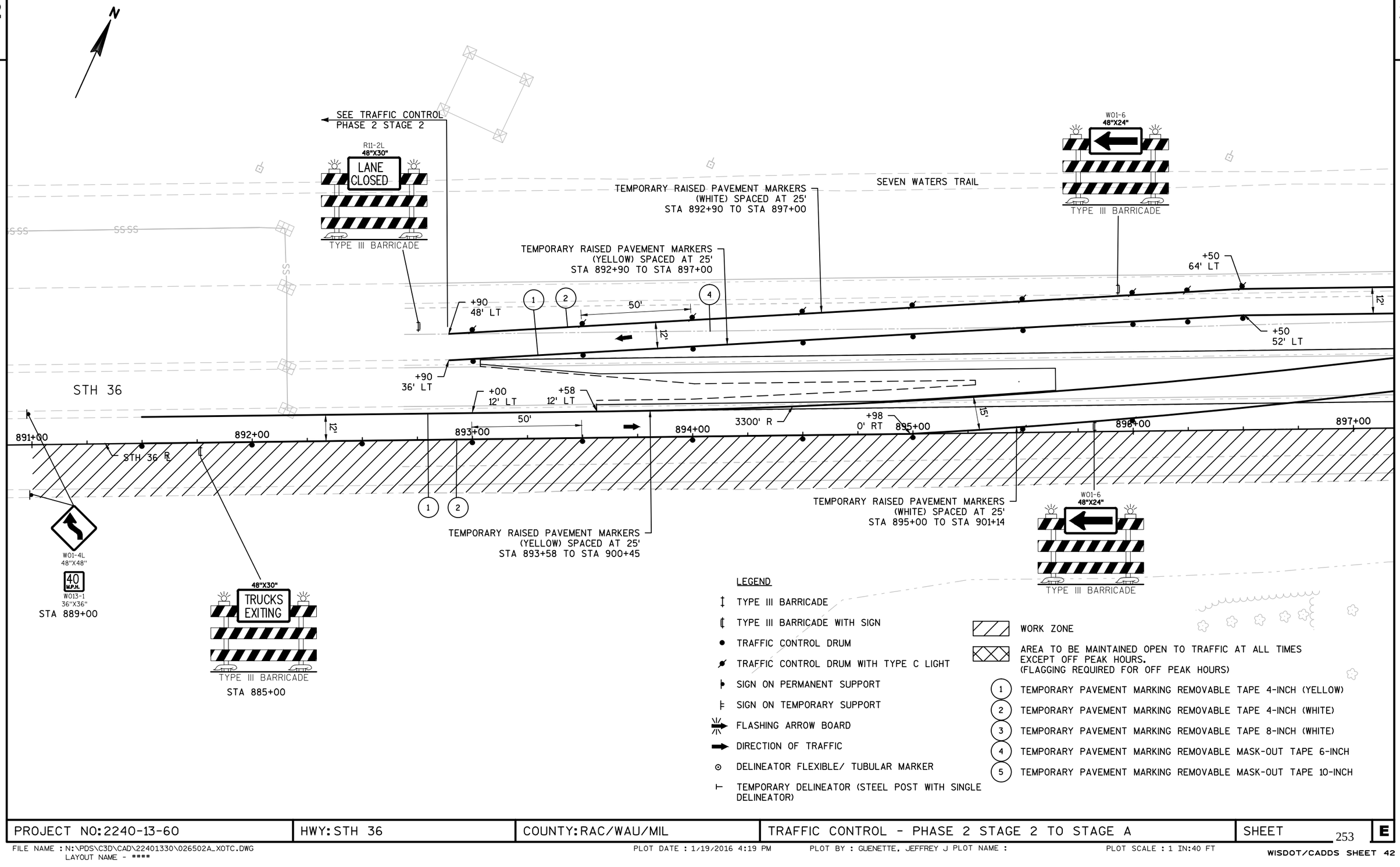


LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- DELINEATOR FLEXIBLE/ TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST WITH SINGLE DELINEATOR)
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC CONTROL - PHASE 2 STAGE 1 TO STAGE B	SHEET 252	E

SEE TRAFFIC CONTROL - PHASE 2 STAGE 1 TO STAGE A
FOR ADDITIONAL INFORMATION
STA 895+60 TO STA 923+90

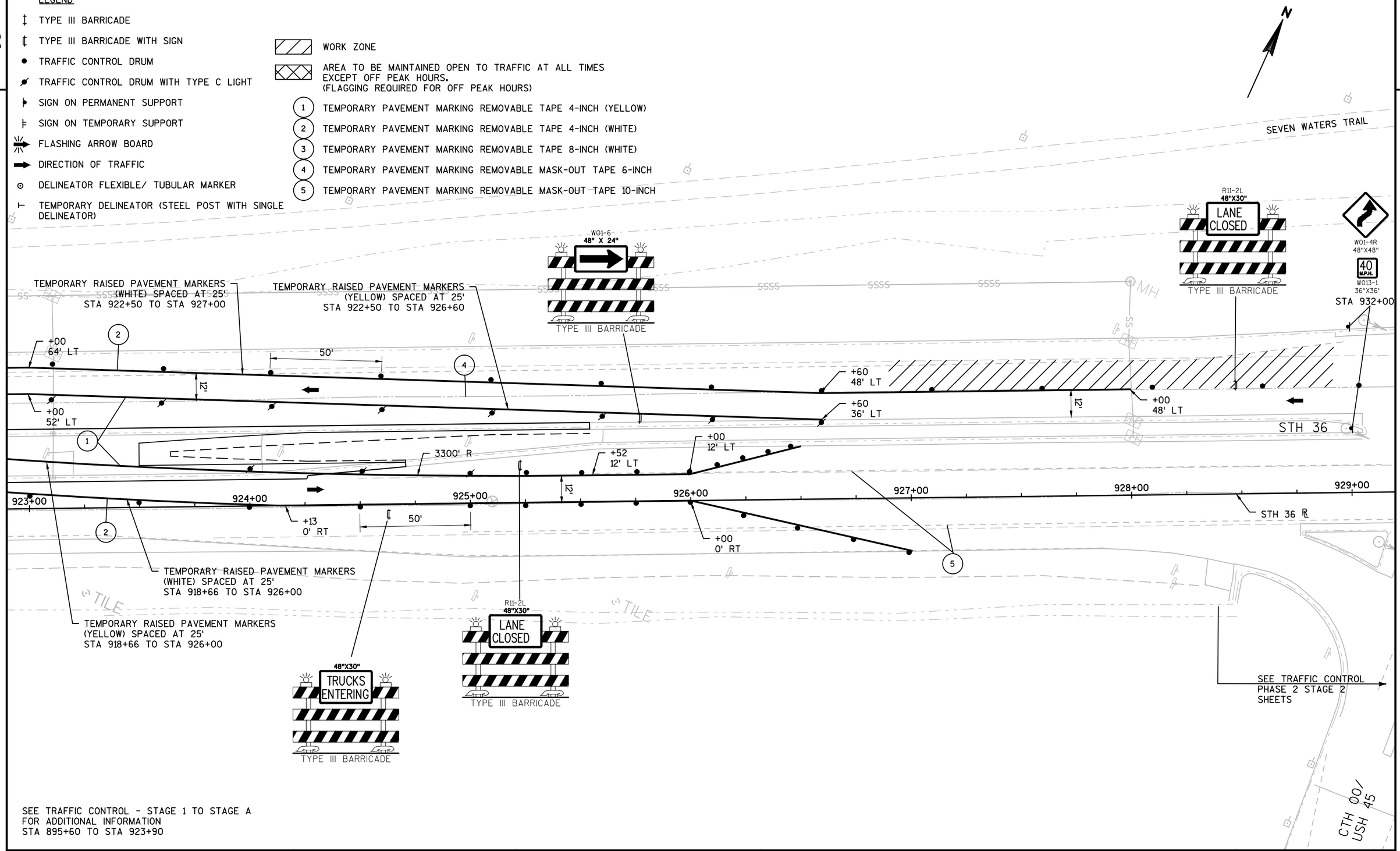


PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC CONTROL - PHASE 2 STAGE 2 TO STAGE A	SHEET 253	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- DELINEATOR FLEXIBLE/ TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST WITH SINGLE DELINEATOR)
- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC CONTROL - PHASE 2 STAGE 2 TO STAGE A	SHEET 254	E

2

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- DELINEATOR FLEXIBLE/ TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST WITH SINGLE DELINEATOR)

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

N

SEVEN WATERS TRAIL

SEE TRAFFIC CONTROL PHASE 2 STAGE 2 SHEETS

48"X30"
TRUCKS ENTERING
TYPE III BARRICADE

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

TEMPORARY RAISED PAVEMENT MARKERS (YELLOW) SPACED AT 25' STA 892+97 TO STA 901+00

TEMPORARY RAISED PAVEMENT MARKERS (WHITE) SPACED AT 25' STA 892+50 TO STA 901+00

REMOVING PAVEMENT MARKINGS

+50 48' LT
+58 36' LT
50'
+00 48' LT
3315' R
25'
+97 36' LT
+85 12' LT
+50 12' LT
3300' R
15'
STH 36
892+00
893+00
894+00
895+00
896+00
897+00
STH 36 ℄
+85 0' RT
+00 2' RT
+00 14' RT
12'
REMOVING PAVEMENT MARKINGS

BEGIN
(2)
+50
0' RT

W01-4R
48"X48"
40 M.P.H.
W013-1
36"X36"
STA 888+00

TEMPORARY RAISED PAVEMENT MARKERS (WHITE) SPACED AT 25' STA 892+50 TO STA 896+50

W01-6
48" X 24"
TYPE III BARRICADE

TEMPORARY RAISED PAVEMENT MARKERS (YELLOW) SPACED AT 25' STA 892+50 TO STA 896+50

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

SEE TRAFFIC CONTROL - PHASE 2 STAGE 1 TO STAGE B FOR ADDITIONAL INFORMATION STA 896+00 TO STA 922+75

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC CONTROL - PHASE 2 STAGE 2 TO STAGE B	SHEET 255	E

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- DELINEATOR FLEXIBLE/ TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST WITH SINGLE DELINEATOR)

- WORK ZONE
- AREA TO BE MAINTAINED OPEN TO TRAFFIC AT ALL TIMES EXCEPT OFF PEAK HOURS. (FLAGGING REQUIRED FOR OFF PEAK HOURS)
- (1) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (3) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 6-INCH
- (5) TEMPORARY PAVEMENT MARKING REMOVABLE MASK-OUT TAPE 10-INCH

SEVEN WATERS TRAIL

W01-6 48"X24"
TYPE III BARRICADE

TEMPORARY RAISED PAVEMENT MARKERS (YELLOW) SPACED AT 25'
STA 918+50 TO STA 926+00

TEMPORARY RAISED PAVEMENT MARKERS (WHITE) SPACED AT 25'
STA 918+50 TO STA 926+50

48"X30" TRUCKS EXITING
TYPE III BARRICADE

R11-2L 48"X30" LANE CLOSED
TYPE III BARRICADE

W01-4L 48"X48"
W013-1 36"X36" 40 M.P.H.
STA 933+00

50' | 3315' R | +14 48' LT | 3300' R | 12' | +55 36' LT | +00 36' LT | +50 48' LT

15'

STH 36

+75 2' RT | 923+00 | +25 0' RT | 924+00 | 25' | +00 0' RT | 925+00 | 926+00 | 927+00 | 928+00 | 929+

STH 36 ℄

+75 14' RT | +25 12' RT

W01-6 48"X24"
TYPE III BARRICADE

TEMPORARY RAISED PAVEMENT MARKERS (YELLOW) SPACED AT 25'
STA 922+50 TO STA 923+25

TEMPORARY RAISED PAVEMENT MARKERS (WHITE) SPACED AT 25'
STA 922+50 TO STA 923+25

SEE TRAFFIC CONTROL PHASE 2 STAGE 2 SHEETS

SEE TRAFFIC CONTROL - PHASE 2 STAGE 1 TO STAGE B FOR ADDITIONAL INFORMATION
STA 896+00 TO STA 922+75

CTH OO/ USH 45

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	TRAFFIC CONTROL - PHASE 2 STAGE 2 TO STAGE B	SHEET 256	E

2

N

PI: 658+13.62

BEGIN PROJECT
STA 663+50

42' TO SB ℄

PT: 667+40.97

650

660

CURVE 1

670

680

690

700

710

720

32' TO NB ℄

HMOD 1X14
Y= 223318.566
X= 539910.590
ELEV= 790.650

CURVE 1
PI STA = 658+13.62
Y = 223327.415
X = 539632.658
DELTA = 28°25'12"
D = 1°30'00"
T = 967.17'
L = 1894.51'
R = 3819.40'
PC STA = 648+46.46
Y = 222402.853
X = 539348.764
PT STA = 667+40.97
Y = 224005.438
X = 540322.365
BK = N17°04'10.0"E
AH = N45°29'22.0"E
S.E.= 3.70%

CP101
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 224437.113
X= 540585.640
ELEV= 790.440
STA 672+31.33, 123.27' LT

CP102
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 225390.840
X= 541858.059
ELEV= 782.780
STA 688+07.32, 88.62' RT

CP103
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 226439.335
X= 542660.245
ELEV= 779.240
STA 701+14.42, 96.72' LT

N45°29'22"E 7432.36'

CP104
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 226837.991
X= 543300.500
ELEV= 773.920
STA 708+50.47, 67.84' RT

CP105
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 227777.477
X= 544001.185
ELEV= 770.750
STA 720+08.76, 110.92' LT

STH 36 ℄

CP106
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 227913.893
X= 544390.035
ELEV= 773.050
STA 723+81.69, 64.40' RT

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	ALIGNMENT LAYOUT	SHEET 257	E

2

CP105
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 227777.477
X= 544001.185
ELEV= 770.750
STA 720+08.76, 110.92' LT

SEC 540162
QUARTER SECTION CORNER
3" IRON PIPE W/ BRASS CAP
Y= 228405.4610
X= 544401.5840

HMOD MUSKEGO S GPS
Y= 228949.802
X= 545245.796
ELEV= 772.280

PC: 741+73.33

PI: 751+54.51

42' TO SB ℄

PT: 761+16.84

33' TO NB ℄

CP108
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 230719.637
X= 547824.245
ELEV= 778.740
STA 768+41.90, 102.59' LT

CP110
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 231507.206
X= 549749.989
ELEV= 780.600
STA 789+19.93, 0.10' RT

720 730 740 750 760 770 780 790

CURVE 2

N45°29'22"E 7432.36'

STH 36 ℄

N64°55'40"E 3748.79'

N64°55'40"E 3748.79'

CURVE 2
PI STA = 751+54.51
Y = 229903.674
X = 546322.243
DELTA = 19°26'18"
D = 1°00'01"
T = 981.18'
L = 1943.51'
R = 5728.60'
PC STA = 741+73.33
Y = 229215.824
X = 545622.540
PT STA = 761+16.84
Y = 230319.460
X = 547210.975
BK = N45°29'22.0"E
AH = N64°55'40.4"E
S.E.= 2.70%

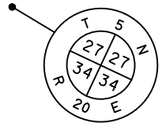
CP106
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 227913.893
X= 544390.035
ELEV= 773.050
STA 723+81.69, 64.40' RT

CP109
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 230949.576
X= 548802.010
ELEV= 782.990
STA 778+24.97, 103.47' RT

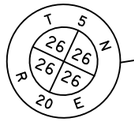
HMOD 1X15
Y= 231688.228
X= 550345.253
ELEV= 779.050

SEC 520151
CENTER OF SECTION
CONCRETE MONUMENT W/ BRASS CAP
Y= 231117.3960
X= 549683.4850

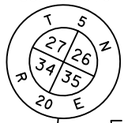
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	ALIGNMENT LAYOUT	SHEET 258	E



SEC 520138
QUARTER SECTION CORNER
CONCRETE MONUMENT W/ BRASS CAP
Y= 233804.600
X= 549687.191



SEC 520127
CENTER OF SECTION
CAST IRON MONUMENT W/ BRASS CAP
Y= 236447.689
X= 555034.380



SEC 520139
SECTION CORNER
CONCRETE MONUMENT W/ BRASS CAP
Y= 233782.270
X= 552363.670

CP111
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 232363.817
X= 551211.304
ELEV= 777.580
STA 806+11.83, 129.04' LT

CP112
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 232781.875
X= 552115.315
ELEV= 782.110
STA 816+03.31, 110.16' LT

CP113
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 233195.789
X= 553010.859
ELEV= 785.340
STA 825+89.87, 105.62' LT

CP114
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 233572.726
X= 553819.674
ELEV= 788.190
STA 834+82.20, 104.34' LT

CP115
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 233965.615
X= 554661.132
ELEV= 787.230
STA 844+10.86, 103.67' LT

Pi: 798+65.63
Y= 231908.043
X= 550606.538

Pi: 810+01.01
Y= 232426.884
X= 551616.433

49' TO SB ℄

BEGIN STH 36 ℞= NB ℄
STA 798+65.63

STH 36 ℞

790 800 810 820 830 840 850 860

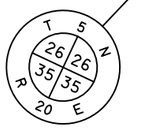
N64°55'40"E 3748.79'

N62°48'28"E 1135.38'

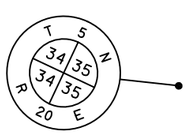
N64°55'49"E 12392.21'

HMOD 1X15
Y= 231688.228
X= 550345.253
ELEV= 779.050

HMOD 1X16
Y= 234353.331
X= 555826.432
ELEV= 783.090



SEC 520140
QUARTER SECTION CORNER
CAST IRON MONUMENT W/ BRASS CAP
Y= 233784.450
X= 555016.886



SEC 520152
QUARTER SECTION CORNER
CAST IRON MONUMENT W/ BRASS CAP
Y= 231113.709
X= 552350.453

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	ALIGNMENT LAYOUT	SHEET 259	E

2

2

SEC 520128
QUARTER SECTION CORNER
CONCRETE MONUMENT W/ BRASS CAP
Y= 236433.682
X= 557669.640

T 5 N
26 25
26 25
R 20 E

N

CP116
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 235082.964
X= 557048.231
ELEV= 781.140
STA 870+46.53, 104.30' LT

CP118
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 236148.053
X= 559279.996
ELEV= 779.790
STA 895+19.34, 123.41' LT

CP120
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 236526.439
X= 560125.148
ELEV= 779.370
STA 904+45.21, 108.04' LT

CP121
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 237028.100
X= 561194.019
ELEV= 783.790
STA 916+25.95, 109.54' LT

48' TO SB ℄

CP123
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 237458.023
X= 562512.309
ELEV= 796.670
STA 930+02.21, 59.62' RT

STH 36, STA 929+60.72 =
CTH 00/USH 45, STA 19+52.38
Y= 237494.448
X= 562449.462

PC: 933+93.22

PI: 937+01.39

860 870 880 890 900 910 920 930

N64°55'49"E 12392.21'

EP: 19+52.38

68°33'36"

490.36'

Y= 237005.071
X= 562480.505
PI: 14+62.02

326.89'

N03°37'47"W

15

STH 36 ℞

CP117
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 235498.896
X= 558307.039
ELEV= 774.450
STA 883+62.98, 52.33' RT

HMOD MUSKEGO E GPS
Y= 236576.931
X= 560587.995
ELEV= 779.090

T 5 N
25 25
25 25
R 20 E

SEC 520129
CENTER OF SECTION
CONCRETE MONUMENT W/ BRASS CAP
Y= 236499.269
X= 560351.209

Y= 236679.760
X= 562512.630
PI: 11+35.13

N05°38'23"W

BP: 9+96.62
Y= 236543.836
X= 562539.252

138.51'

CTH 00/ USH 45 ℞

N11°04'55"W

T 5 N
25 30
25 30
R 20/21 E

SEC 520130
QUARTER SECTION CORNER
CONCRETE MONUMENT W/ BRASS CAP
Y= 236553.806
X= 563028.747

T 5 N
26 25
35 36
R 20 E

SEC 520141
SECTION CORNER
CONCRETE MONUMENT W/ BRASS CAP
Y= 233764.168
X= 557662.596

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SEC 520117
SECTION CORNER
CONCRETE MONUMENT W/ BRASS CAP
Y= 239211.453
X= 563037.336

SEC 541093
CENTER OF SECTION
CONCRETE MONUMENT W/ BRASS CAP
Y= 241780.026
X= 565777.477

PC: 933+93.22

PI: 937+01.39

PT: 940+07.20

CP124
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 238113.897
X= 564001.182
ELEV= 801.730
STA 946+25.65, 103.06' LT

CURVE 3

STH 36 ℞

CP126
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 238401.310
X= 565381.718
ELEV= 800.840
STA 960+35.27, 40.39' RT

N77°12'41"E 1359.89'

950

PC: 953+67.09

CURVE 4

960

PT: 965+12.89

SEC 541106
QUARTER SECTION CORNER
CONCRETE MONUMENT W/ BRASS CAP
Y= 239121.089
X= 565739.624

48' TO SB ℄

970

980

CP128
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 239769.655
X= 566534.463
ELEV= 786.620
STA 978+17.39, 105.40' LT

HMOD 1X17
Y= 240212.911
X= 566948.809
ELEV= 791.450

PI: 986+64.56
Y= 240319.193
X= 567187.769

990

N41°49'45"E 1267.03'

1000

CP130
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 241732.013
X= 568328.998
ELEV= 792.690
STA 1004+75.46, 107.96' LT

PI: 999+31.59
Y= 241263.303
X= 568032.763

1010

N43°31'15"E 1645.25'

N42°50'20"E 2151.67'

PI: 959+57.82

CP127
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 239176.408
X= 566242.614
ELEV= 793.100
STA 971+83.95, 83.97' RT

CP129
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 240844.333
X= 567716.982
ELEV= 787.920
STA 994+08.80, 44.12' RT

SEC 541094
QUARTER SECTION CORNER
CONCRETE MONUMENT W/ BRASS CAP
Y= 241687.628
X= 568421.612

CURVE 3
PI STA = 937+01.39
Y = 237808.285
X = 563120.358
DELTA = 12°16'52"
D = 2°00'01"
T = 308.17'
L = 613.98'
R = 2864.47'
PC STA = 933+93.22
Y = 237677.707
X = 562841.218
PT STA = 940+07.20
Y = 237876.501
X = 563420.886
BK = N64°55'49.3"E
AH = N77°12'41.0"E
S.E.= 5.00%

CURVE 4
PI STA = 959+57.82
Y = 238308.278
X = 565323.112
DELTA = 34°22'21"
D = 3°00'00"
T = 590.73'
L = 1145.81'
R = 1909.94'
PC STA = 953+67.09
Y = 238177.518
X = 564747.039
PT STA = 965+12.89
Y = 238741.440
X = 565724.769
BK = N77°12'41.0"E
AH = N42°50'19.6"E
S.E.= 6.00%

SEC 541107
SECTION CORNER
CONCRETE MONUMENT W/ BRASS CAP
Y= 239042.532
X= 568381.175

SEC 541119
CENTER OF SECTION
CONCRETE MONUMENT W/ BRASS CAP
Y= 236470.851
X= 565699.620

2

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	ALIGNMENT LAYOUT	SHEET 261	E

SEC 541069
CENTER OF SECTION
CONCRETE MONUMENT W/ ALUMINUM CAP
Y= 246999.561
X= 571157.991

SEC 541081
SECTION CORNER
CONCRETE MONUMENT W/ BRASS CAP
Y= 244334.078
X= 568462.339

CP134
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 244740.616
X= 571042.676
ELEV= 806.360
STA 1045+34.07, 6.63' LT

CP133
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 243998.818
X= 570279.321
ELEV= 804.230
STA 1034+78.91, 130.18' LT

CP131
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 242534.508
X= 569087.140
ELEV= 802.590
STA 1015+79.46, 110.82' LT

CP130
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 241732.013
X= 568328.998
ELEV= 792.690

HMOD 9A016
Y= 245880.282
X= 572437.099
ELEV= 790.110

PT: 1049+66.41
PI: 1051+19.97
Y= 245098.202
X= 571506.393
EP: 1054+19.56
Y= 245271.492
X= 571750.772

PC: 1042+71.72
PI: 1046+21.75

END STH 36 ℄
= NB ℄
STA 1041+00

1050
N55°42'21"E 153.56'
N54°39'34"E 299.58'
CURVE 6
1040
END PROJECT
STA 1047+05

PT: 1026+12.89
1030
N38°20'20"E 1658.83'
48' TO SB ℄
PC: 1015+76.84
1020
CURVE 5
1010
N43°31'15"E 1645.25'
STH 36 ℄
1000
PI: 1020+95.22

SEC 541082
QUARTER SECTION CORNER
CONCRETE MONUMENT W/ BRASS CAP
Y= 244530.474
X= 571110.580

CURVE 6
PI STA = 1046+21.75
Y = 244814.458
X = 571090.349
DELTA = 17°22'01"
D = 2°30'00"
T = 350.03'
L = 694.69'
R = 2291.88'
PC STA = 1042+71.72
Y = 244539.910
X = 570873.222
PT STA = 1049+66.41
Y = 245011.680
X = 571379.529
BK = N38°20'19.9"E
AH = N55°42'20.9"E
S.E.= 4.00%

CP132
1000 mm BERNTSEN FENO MONUMENT
WITH ALUMINUM CAP AND A MARKER POST
Y= 243156.684
X= 569860.412
ELEV= 802.520
STA 1025+58.82, 63.76' RT

SEC 541094
QUARTER SECTION CORNER
CONCRETE MONUMENT W/ BRASS CAP
Y= 241687.628
X= 568421.612

CURVE 5
PI STA = 1020+95.22
Y = 242832.206
X = 569522.677
DELTA = 5°10'55"
D = 0°30'01"
T = 518.38'
L = 1036.05'
R = 11455.52'
PC STA = 1015+76.84
Y = 242456.316
X = 569165.712
PT STA = 1026+12.89
Y = 243238.801
X = 569844.234
BK = N43°31'14.7"E
AH = N38°20'19.9"E
S.E.= 2.00%

SEC 521095
CENTER OF SECTION
5" DIAMETER CONCRETE MONUMENT W/ CAST IRON PLUG
Y= 241704.559
X= 571064.397

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	ALIGNMENT LAYOUT	SHEET 262	E

DATE 02MAR16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2240-13-60 QUANTITY
0010	201.0120	Clearing	ID	32.000	32.000
0020	201.0220	Grubbing	ID	32.000	32.000
0030	203.0100	Removing Small Pipe Culverts	EACH	1.000	1.000
0040	204.0110	Removing Asphaltic Surface	SY	2,869.000	2,869.000
0050	204.0120	Removing Asphaltic Surface Milling	SY	164,571.000	164,571.000
0060	204.0150	Removing Curb & Gutter	LF	6,983.000	6,983.000
0070	204.0165	Removing Guardrail	LF	2,275.000	2,275.000
0080	204.0210	Removing Manholes	EACH	4.000	4.000
0090	204.0220	Removing Inlets	EACH	25.000	25.000
0100	204.0245	Removing Storm Sewer (size) 01. 12-INCH	LF	167.000	167.000
0110	204.0245	Removing Storm Sewer (size) 02. 15-INCH	LF	267.000	267.000
0120	204.0245	Removing Storm Sewer (size) 03. 18-INCH	LF	16.000	16.000
0130	204.0245	Removing Storm Sewer (size) 04. 42-INCH	LF	1,131.000	1,131.000
0140	204.9060.S	Removing (item description) 01. INLET COVERS	EACH	3.000	3.000
0150	205.0100	Excavation Common	CY	14,747.000	14,747.000
0160	208.0100	Borrow	CY	819.000	819.000
0170	208.1100	Select Borrow	CY	1,573.000	1,573.000
0180	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	2.000	2.000
0190	213.0100	Finishing Roadway (project) 01. 2240-13-60	EACH	1.000	1.000
0200	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,244.000	1,244.000
0210	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	11,451.000	11,451.000
0220	305.0500	Shaping Shoulders	STA	626.000	626.000
0230	311.0110	Breaker Run	TON	10,036.000	10,036.000
0240	390.0203	Base Patching Asphaltic	SY	60.000	60.000
0250	390.0403	Base Patching Concrete Shes	SY	84.000	84.000
0260	416.0610	Drilled Tie Bars	EACH	1,249.000	1,249.000
0270	416.0620	Drilled Dowel Bars	EACH	3,398.000	3,398.000
0280	416.1710	Concrete Pavement Repair	SY	1,112.000	1,112.000
0290	416.1715	Concrete Pavement Repair SHES	SY	430.000	430.000
0300	416.1720	Concrete Pavement Replacement	SY	636.000	636.000
0310	416.1725	Concrete Pavement Replacement SHES	SY	873.000	873.000
0320	440.4410	Incentive IRI Ride	DOL	32,100.000	32,100.000
0330	455.0605	Tack Coat	GAL	12,296.000	12,296.000
0340	460.2000	Incentive Density HMA Pavement	DOL	14,560.000	14,560.000
0350	460.6223	HMA Pavement 3 MT 58-28 S	TON	2,509.000	2,509.000
0360	460.6224	HMA Pavement 4 MT 58-28 S	TON	20,246.000	20,246.000
0370	465.0105	Asphaltic Surface	TON	57.000	57.000
0380	465.0125	Asphaltic Surface Temporary	TON	810.000	810.000
0390	465.0305	Asphaltic Surface Safety Islands	TON	46.000	46.000
0400	465.0400	Asphaltic Shoulder Rumble Strips	LF	60,715.000	60,715.000
0410	509.1500	Concrete Surface Repair	SF	73.000	73.000
0420	520.8700	Cleaning Culvert Pipes	EACH	33.000	33.000
0430	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	2.000	2.000
0440	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	1.000	1.000
0450	601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	LF	2,277.000	2,277.000
0460	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	4,706.000	4,706.000
0470	602.0410	Concrete Sidewalk 5-Inch	SF	850.000	850.000

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DATE 02MAR16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2240-13-60 QUANTITY
0480	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	140.000	140.000
0490	606.0200	Riprap Medium	CY	127.000	127.000
0500	606.0300	Riprap Heavy	CY	50.000	50.000
0510	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	37.000	37.000
0520	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	81.000	81.000
0530	608.0342	Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	LF	1,128.000	1,128.000
0540	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	223.000	223.000
0550	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	253.000	253.000
0560	611.0530	Manhole Covers Type J	EACH	5.000	5.000
0570	611.0627	Inlet Covers Type HM	EACH	10.000	10.000
0580	611.0636	Inlet Covers Type HM-S	EACH	3.000	3.000
0590	611.0642	Inlet Covers Type MS	EACH	6.000	6.000
0600	611.2006	Manholes 6-FT Diameter	EACH	4.000	4.000
0610	611.2008	Manholes 8-FT Diameter	EACH	1.000	1.000
0620	611.3230	Inlets 2x3-FT	EACH	13.000	13.000
0630	611.3902	Inlets Median 2 Grate	EACH	3.000	3.000
0640	611.9705	Salvaged Manhole Covers	EACH	1.000	1.000
0650	611.9710	Salvaged Inlet Covers	EACH	6.000	6.000
0660	612.0106	Pipe Underdrain 6-Inch	LF	970.000	970.000
0670	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	15.000	15.000
0680	612.0700	Drain Tile Exploration	LF	300.000	300.000
0690	612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	EACH	1.000	1.000
0700	614.0010	Barrier System Grading Shaping Finishing	EACH	10.000	10.000
0710	614.0396	Guardrail Mow Strip Asphalt	SY	511.000	511.000
0720	614.2300	MGS Guardrail 3	LF	2,172.000	2,172.000
0730	614.2330	MGS Guardrail 3 K	LF	60.000	60.000
0740	614.2500	MGS Thrie Beam Transition	LF	156.000	156.000
0750	614.2610	MGS Guardrail Terminal EAT	EACH	9.000	9.000
0760	614.2620	MGS Guardrail Terminal Type 2	EACH	9.000	9.000
0770	619.1000	Mobilization	EACH	1.000	1.000
0780	624.0100	Water	MGAL	190.450	190.450
0790	625.0100	Topsoil	SY	11,128.000	11,128.000
0800	625.0500	Salvaged Topsoil	SY	13,823.000	13,823.000
0810	627.0200	Mulching	SY	500.000	500.000
0820	628.1104	Erosion Bales	EACH	20.000	20.000
0830	628.1504	Silt Fence	LF	7,395.000	7,395.000
0840	628.1520	Silt Fence Maintenance	LF	7,395.000	7,395.000
0850	628.1905	Mobilizations Erosion Control	EACH	18.000	18.000
0860	628.1910	Mobilizations Emergency Erosion Control	EACH	13.000	13.000
0870	628.2006	Erosion Mat Urban Class I Type A	SY	12,603.000	12,603.000
0880	628.2027	Erosion Mat Class II Type C	SY	12,913.000	12,913.000
0890	628.6005	Turbidity Barriers	SY	120.000	120.000
0900	628.7005	Inlet Protection Type A	EACH	38.000	38.000
0910	628.7010	Inlet Protection Type B	EACH	17.000	17.000
0920	628.7015	Inlet Protection Type C	EACH	195.000	195.000
0930	628.7020	Inlet Protection Type D	EACH	14.000	14.000
0940	628.7504	Temporary Ditch Checks	LF	920.000	920.000
0950	628.7555	Culvert Pipe Checks	EACH	54.000	54.000

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DATE 02MAR16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2240-13-60 QUANTITY
0960	628.7570	Rock Bags	EACH	346.000	346.000
0970	629.0210	Fertilizer Type B	CWT	9.740	9.740
0980	630.0130	Seeding Mixture No. 30	LB	280.000	280.000
0990	630.0160	Seeding Mixture No. 60	LB	149.000	149.000
1000	630.0200	Seeding Temporary	LB	485.000	485.000
1010	631.1100	Sod Erosion Control	SY	27.000	27.000
1020	633.1100	Delineators Temporary	EACH	51.000	51.000
1030	633.5200	Markers Culvert End	EACH	37.000	37.000
1040	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	294.000	294.000
1050	637.2210	Signs Type II Reflective H	SF	3,239.975	3,239.975
1060	637.2215	Signs Type II Reflective H Folding	SF	134.280	134.280
1070	637.2230	Signs Type II Reflective F	SF	262.000	262.000
1080	638.2102	Moving Signs Type II	EACH	7.000	7.000
1090	638.2602	Removing Signs Type II	EACH	282.000	282.000
1100	638.3000	Removing Small Sign Supports	EACH	250.000	250.000
1110	642.5401	Field Office Type D	EACH	1.000	1.000
1120	643.0100	Traffic Control (project) 01. 2240-13-60	EACH	1.000	1.000
1130	643.0300	Traffic Control Drums	DAY	176,749.000	176,749.000
1140	643.0420	Traffic Control Barricades Type III	DAY	14,153.000	14,153.000
1150	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	362.000	362.000
1160	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	362.000	362.000
1170	643.0705	Traffic Control Warning Lights Type A	DAY	25,301.000	25,301.000
1180	643.0715	Traffic Control Warning Lights Type C	DAY	10,101.000	10,101.000
1190	643.0800	Traffic Control Arrow Boards	DAY	796.000	796.000
1200	643.0900	Traffic Control Signs	DAY	48,695.000	48,695.000
1210	643.0920	Traffic Control Covering Signs Type II	EACH	56.000	56.000
1220	643.1000	Traffic Control Signs Fixed Message	SF	156.000	156.000
1230	643.1050	Traffic Control Signs PCMS	DAY	90.000	90.000
1240	645.0111	Geotextile Fabric Type DF Schedule A	SY	540.000	540.000
1250	645.0120	Geotextile Fabric Type HR	SY	477.000	477.000
1260	646.0106	Pavement Marking Epoxy 4-Inch	LF	153,700.000	153,700.000
1270	646.0600	Removing Pavement Markings	LF	6,200.000	6,200.000
1280	646.0805.S	Pavement Marking Outfall	EACH	117.000	117.000
1290	646.0841.S	Pavement Marking Grooved Wet Reflective Contrast Tape 4-Inch	LF	8,650.000	8,650.000
1300	646.0843.S	Pavement Marking Grooved Wet Reflective Contrast Tape 8-Inch	LF	9,400.000	9,400.000
1310	646.0881.S	Pavement Marking Grooved Wet Reflective Tape 4-Inch	LF	10,600.000	10,600.000
1320	646.0883.S	Pavement Marking Grooved Wet Reflective Tape 8-Inch	LF	5,350.000	5,350.000
1330	647.0456	Pavement Marking Curb Epoxy	LF	1,110.000	1,110.000
1340	647.0606	Pavement Marking Island Nose Epoxy	EACH	41.000	41.000
1350	647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	590.000	590.000
1360	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	49,210.000	49,210.000
1370	649.0506	Temporary Pavement Marking Removable Mask-Out Tape 6-Inch	LF	2,219.000	2,219.000
1380	649.0510	Temporary Pavement Marking Removable Mask-Out Tape 10-Inch	LF	950.000	950.000
1390	649.0801	Temporary Pavement Marking Removable Tape 8-Inch	LF	9,375.000	9,375.000
1400	649.2100	Temporary Raised Pavement Markers	EACH	478.000	478.000

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DATE 02MAR16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2240-13-60 QUANTITY
1410	650.4000	Construction Staking Storm Sewer	EACH	41.000	41.000
1420	650.4500	Construction Staking Subgrade	LF	5,184.000	5,184.000
1430	650.5000	Construction Staking Base	LF	5,184.000	5,184.000
1440	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	4,697.000	4,697.000
1450	650.8000	Construction Staking Resurfacing Reference	LF	74,910.000	74,910.000
1460	650.9910	Construction Staking Supplemental Control (project) 01. 2240-13-60	LS	1.000	1.000
1470	650.9920	Construction Staking Slope Stakes	LF	5,184.000	5,184.000
1480	652.0800	Conduit Loop Detector	LF	982.000	982.000
1490	653.0905	Removing Pull Boxes	EACH	1.000	1.000
1500	655.0800	Loop Detector Wire	LF	4,294.000	4,294.000
1510	655.0900	Traffic Signal EVP Detector Cable	LF	2,532.000	2,532.000
1520	659.1125	Luminaires Utility LED C	EACH	44.000	44.000
1530	690.0150	Sawing Asphalt	LF	2,019.000	2,019.000
1540	690.0250	Sawing Concrete	LF	10,652.000	10,652.000
1550	SPV.0060	Special 01. INLET COVERS TYPE H WITH CURB PLATE	EACH	3.000	3.000
1560	SPV.0060	Special 02. COVER PLATE TEMPORARY	EACH	7.000	7.000
1570	SPV.0060	Special 03. STORM SEWER TAP TEMPORARY	EACH	6.000	6.000
1580	SPV.0060	Special 04. TEMPORARY INLET COVERS TYPE B	EACH	1.000	1.000
1590	SPV.0060	Special 05. TEMPORARY INLET COVERS TYPE C	EACH	1.000	1.000
1600	SPV.0060	Special 06. TEMPORARY INLET COVERS TYPE MS	EACH	10.000	10.000
1610	SPV.0060	Special 07. TEMPORARY MANHOLE 3-FT DIAMETER	EACH	1.000	1.000
1620	SPV.0060	Special 08. TEMPORARY INLET 2X2-FT	EACH	1.000	1.000
1630	SPV.0060	Special 09. TEMPORARY INLET MEDIAN 1 GRATE	EACH	4.000	4.000
1640	SPV.0060	Special 10. TEMPORARY INLET MEDIAN 2 GRATE	EACH	3.000	3.000
1650	SPV.0060	Special 11. SAFETY GRATE FOR BOX CULVERT	EACH	1.000	1.000
1660	SPV.0060	Special 12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2	EACH	5.000	5.000
1670	SPV.0060	Special 13. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS	EACH	5.000	5.000
1680	SPV.0060	Special 14. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC YEILD LINE SYMBOLS 18-INCH	EACH	40.000	40.000
1690	SPV.0060	Special 21. REMOVING LUMINAIRES	EACH	44.000	44.000
1700	SPV.0060	Special 22. LAMP DISPOSAL HIGH INTENSITY DISCHARGE	EACH	44.000	44.000
1710	SPV.0090	Special 01. STORM SEWER PIPE TEMPORARY 12-INCH	LF	641.000	641.000
1720	SPV.0090	Special 02. STORM SEWER PIPE TEMPORARY 15-INCH	LF	100.000	100.000
1730	SPV.0090	Special 03. DRAIN SLOTTED VANE LONGITUDINAL TEMPORARY	LF	154.000	154.000
1740	SPV.0090	Special 04. SAWING CURB HEAD	LF	554.000	554.000
1750	SPV.0090	Special 05. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP LINE 18-INCH	LF	575.000	575.000

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DATE 02MAR16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2240-13-60 QUANTITY
1760	SPV.0090	Special 06. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH	LF	320.000	320.000
1770	SPV.0105	Special 01. EVP DETECTOR HEAD INSTALLATION STH 36 & STH 100	LS	1.000	1.000
1780	SPV.0105	Special 02. EVP DETECTOR HEAD INSTALLATION USH 45/STH 36 & CTH H	LS	1.000	1.000
1790	SPV.0105	Special 03. TRANSPORT AND INSTALL STATE FURN RAD AR DETECTION SYS USH 45/STH 36 & CTH H	LS	1.000	1.000
1800	SPV.0105	Special 04. TRANSPORT AND INSTALL STATE FURN RAD AR DETECTION SYS STH 36 & CTH OO/USH 45	LS	1.000	1.000
1810	SPV.0105	Special 05. TRANSPORT AND INSTALL STATE FURN RAD AR DETECTION SYS STH 36 & MUSKEGO DAM RD	LS	1.000	1.000
1820	SPV.0105	Special 06. REMOVE LOOP DETECTOR WIRE USH 45/STH 36 & CTH H (RYAN RD)	LS	1.000	1.000
1830	SPV.0105	Special 07. REMOVE LOOP DETECTOR WIRE STH 36 & CTH OO/USH 45	LS	1.000	1.000
1840	SPV.0105	Special 08. REMOVE LOOP DETECTOR WIRE STH 36 & MUSKEGO DAM RD	LS	1.000	1.000
1850	SPV.0105	Special 09. REMOVE LOOP DETECTOR WIRE STH 36 & CTH Y	LS	1.000	1.000
1860	SPV.0105	Special 10. STRAPPING C-67-15	LS	1.000	1.000
1870	SPV.0105	Special 11. SAND BAGGING AND DEWATERING C-40-02	LS	1.000	1.000
1880	SPV.0105	Special 12. JOINT REPAIR C-40-02	LS	1.000	1.000
1890	SPV.0170	Special 01. DITCHING AND SHAPING	STA	75.000	75.000
1900	SPV.0180	Special 01. GEOGRID REINFORCEMENT	SY	12,919.000	12,919.000

EARTHWORK SUMMARY

Division	From / To Station	Location	205.0100 Common Excavation (1)		Salvaged / Unusable Pavement Material (4)	Available Material (5)	Expanded EBS Backfill (11)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate + / - (14)	Waste	208.0100 Borrow	208.1100 Select Borrow	Comment:
			Cut (2)	EBS Excavation (3)			Factor 1.1		Factor 1.2					
			CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	
1	STA 893+04 TO 901+14	SOUTH CROSSOVER	1,125	--	92	1,033	--	0	0	1,033	--	--	--	
	STA 917+50 TO 925+54	NORTH CROSSOVER	1,075	--	92	983	--	0	0	983	--	--	--	
Division 1 Subtotal			2,200	--	185	2,015	--	0	0	2,015	2,015	--	--	
2	STA 904+00 TO 917+50	NORTHBOUND RECONSTRUCTION (STAGE A)	5,218	505	1,169	4,049	555	242	290	3,759	4,314	--	555	Buried asphalt and curb & gutter
3	STA 904+00 TO 917+50	SOUTH BOUND RECONSTRUCTION (STAGE B)	5,034	925	1,338	3,696	1,017	362	435	3,262	4,279	--	1,017	Buried asphalt and curb & gutter
4	STA 893+04 TO 901+14	SOUTH CROSSOVER REMOVAL	159	--	106	53	--	422	507	-454	--	--	--	
	STA 917+50 TO 925+54	NORTH CROSSOVER REMOVAL	163	--	108	56	--	350	420	-365	--	--	--	
Division 4 Subtotal			323	--	214	109	--	773	927	-819	--	819	--	
5	STA 740+26 TO 743+75	NORTHBOUND INSIDE SHOULDER BEAM GUARD	154	--	20	134	--	34	41	93	--	--	--	
	STA 744+65 TO 747+03	NORTHBOUND INSIDE SHOULDER BEAM GUARD	120	--	15	104	--	24	29	75	--	--	--	
	STA 744+90 TO 747+89	SOUTHBOUND INSIDE SHOULDER BEAM GUARD	211	--	12	199	--	2	2	197	--	--	--	
Division 5 Subtotal			485	--	48	437	--	60	72	365	365	--	--	
6	SIDEWALK AND CURB & GUTTER	Various	58	--	--	--		--	--	58	58	--	--	
Grand Total			**13,317**	**1,430**	**2,953**	**10,306**	**1,573**	**1,437**	**1,724**	**8,582**	**10,973**	**819**	**1,573**	
		Total Common Excavation	**14,747**											

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut.
3) EBS Excavation to be backfilled with Select Borrow material.
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
11) Expanded EBS Backfill - This is to be filled with Select Borrow material. EBS Backfill Factor = 1.1. Item number 208.1100
13) Expanded Fill. Factor = 1.20

Expanded Fill = Unexpanded Fill * Fill Factor

14) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

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CLEARING AND GRUBBING

LOCATION	OFFSET	201.0120 CLEARING ID	201.0220 GRUBBING ID
STA 750+00	30' LT	12	12
STA 1020+50	40' RT	20	20
TOTAL		32	32

BASE AGGREGATE

LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON	305.0500 SHAPING SHOULDERS STA	624.0100 WATER MGAL	SPV.0180.01 GEOGRID REINFORCEMENT SY
NORTHBOUND						
663+50 TO 767+00	321	512	--	208	12.50	--
767+00 TO 904+00	129	1,013	--	94	17.13	--
904+00 TO 917+50	153	3,938	4,577	--	61.37	5,899
917+50 TO 1047+05	115	1,019	--	74	17.01	--
SOUTHBOUND						
663+50 TO 767+00	337	329	--	208	9.99	--
767+00 TO 904+00	55	--	--	42	0.83	--
904+00 TO 917+50	--	4,095	5,459	--	61.43	7,020
917+50 TO 1047+05	75	--	--	--	1.13	--
UNDISTRIBUTED	59	545	--	--	9.06	--
TOTAL	1,244	11,451	10,036	626	190.45	12,919

SAWING ASPHALT

LOCATION	690.0150 LF
NORTHBOUND	
663+50 TO 767+00	589
767+00 TO 904+00	187
904+00 TO 917+50	66
917+50 TO 1047+05	195
SOUTHBOUND	
663+50 TO 767+00	677
767+00 TO 904+00	201
904+00 TO 917+50	80
917+50 TO 1047+05	24
TOTAL	2,019

SAWING CURB HEAD

LOCATION	SPV.0090.04 SAWING CURB HEAD LF
STH 36	
STA 873+13 TO 873+84	83
STA 875+83 TO 879+44	373
SIDEROADS	
THODE DRIVE	28
CHAMPIONS DRIVE	56
CTH OO / USH 45	14
TOTAL	554

PIPE UNDERDRAIN

LOCATION	612.0106 PIPE UNDERDRAIN 6-INCH LF	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0700 DRAIN TILE EXPLORATION LF	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	645.0111 GEOTEXTILE FABRIC TYPE DF SCHEDULE A SY
STA 904+00 TO 917+00					
NORTHBOUND	340	15	--	1	190
SOUTHBOUND	630	--	--	--	350
UNDISTRIBUTED	--	--	300	--	--
TOTAL	970	15	300	1	540

CURB & GUTTER

	LOCATION	204.0150 REMOVING CURB & GUTTER LF	* 416.0610 DRILLED TIE BARS EACH	601.0555 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	* 690.0250 SAWING CONCRETE LF
	NORTHBOUND					
	663+50 TO 767+00	--	--	--	--	--
	767+00 TO 904+00	626	8	--	626	629
**	904+00 TO 917+50	1,365	8	--	1,365	6
	917+50 TO 1047+05	701	256	733	--	707
	SOUTHBOUND					
	663+50 TO 767+00	--	--	--	--	--
	767+00 TO 904+00	837	298	837	--	861
**	904+00 TO 917+50	2,715	4	--	2,715	12
	917+50 TO 1047+05	739	252	707	--	747
	TOTAL	6,983	826	2,277	4,706	2,962

* ADDITIONAL QUANTITIES ELSEWHERE

** EXISTING CURB AND GUTTER IS BURIED UNDER 4-11" OF APSHALT AND 6" OF BASE AGGREGATE

CONCRETE SIDEWALK

LOCATION	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF
THODE DRIVE	200	40
CHAMPIONS DRIVE	550	80
CTH OO/USH 45	100	20
TOTAL	850	140

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

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REMOVING ASPHALTIC SURFACE

LOCATION		204.0110 SY
STA 664+10	SB	3
STA 742+90	NB	30
STA 743+00	SB	57
STA 747+00	SB	6
STA 782+05	SB	10
STA 783+75	SB	8
STA 874+10	SB	22
STA 901+00	MEDIAN	32
STA 896+00	MEDIAN	1,338
STA 903+85	MEDIAN	11
STA 920+00	MEDIAN	1,301
STA 926+50	MEDIAN	2
STA 929+00	MEDIAN	2
STA 930+50	MEDIAN	2
STA 974+10	SB	7
STA 1020+20	SB	38
TOTAL		2,869

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

LOCATION	DIRECTION	211.0400 STA
STA 742+60 to 743+55	SB, INSIDE SHOULDER	2
TOTAL		2

ASPHALTIC SURFACE TEMPORARY

LOCATION	465.0125 TON
TEMPORARY CROSSOVER	
STA 893+04 to 901+14	385
STA 917+50 to 925+54	374
STAGE 1 - TEMPORARY ASPHALTIC WEDGE	16
STAGE 2 - TEMPORARY ASPHALTIC WEDGE	35
TOTAL	810

ASPHALTIC ITEMS

LOCATION	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	465.0400 ASPHALTIC SHOULDER RUMBLE STRIP LF
STAGE 1					
NORTHBOUND					
STA 663+50 TO 744+00	13,613	971	40	1,612	8,050
STA 744+00 TO 795+00	4,788	353	34	584	3,270
STA 795+00 TO 834+00	3,907	271	--	445	--
STA 834+00 TO 904+00	11,024	769	--	1,263	--
STA 971+00 TO 1047+05	13,600	945	--	1,553	--
SOUTHBOUND					
STA 663+50 TO 744+00	13,879	978	14	1,623	7,500
STA 744+00 TO 795+00	7,989	583	44	966	3,540
STA 795+00 TO 834+00	17	--	--	--	--
STA 834+00 TO 904+00	572	40	--	66	--
STA 971+00 TO 1047+05	--	--	--	--	--
STAGE 2					
NORTHBOUND					
STA 663+50 TO 744+00	17,802	1,246	--	2,047	8,050
STA 744+00 TO 795+00	5,193	363	--	597	3,270
STA 795+00 TO 834+00	5,462	382	--	628	1,730
STA 834+00 TO 904+00	15,857	1,110	--	1,824	6,600
STA 971+00 TO 1047+05	17,082	1,196	--	1,964	6,165
SOUTHBOUND					
STA 663+50 TO 744+00	18,107	1,268	--	2,082	7,850
STA 744+00 TO 795+00	9,774	684	--	1,124	3,340
STA 795+00 TO 834+00	--	--	--	--	--
STA 834+00 TO 904+00	1,013	71	--	116	--
STA 971+00 TO 1047+05	--	--	--	--	--
STAGE A NORTHBOUND					
STA 904+00 TO 917+50	--	337	1107	554	1,350
STAGE B SOUTH BOUND					
STA 904+00 TO 917+50	--	386	1270	635	--
CTH OO / USH 45					
NORTHBOUND	2,609	183	--	300	--
SOUTHBOUND	2,284	160	--	263	--
TOTAL	164,571	12,296	2,509	20,246	60,715

ASPHALTIC SURFACE

LOCATION		465.0105 TON
STA 664+10	SB	1
STA 782+05	SB	3
STA 783+75	SB	2
STA 923+50	MEDIAN	49
STA 974+10	SB	2
TOTAL		57

BASE PATCHING ASPHALTIC

LOCATION		390.0203 SY
STA 900+71	NB	43
UNDISTRIBUTED		17
TOTAL		60

BASE PATCHING CONCRETE

LOCATION		390.0403 BASE PATCHING CONCRETE SHES SY	* 416.0620 DRILLED DOWEL BARS EACH	* 690.0250 SAWING CONCRETE LF
STA 664+10	SB LOOP	21	32	63
STA 782+05	SB LOOP	22	32	65
STA 783+75	SB LOOP	21	32	64
UNDISTRIBUTED		20	32	65
TOTAL		84	128	257

*ADDITONAL QUANTITY ELSEWHERE

ASPHALTIC SURFACE SAFETY ISLANDS

LOCATION		465.0305 TON
STA 903+85 to 907+30	MEDIAN	40
STA 901+00	MEDIAN	5
STA 926+50	MEDIAN	0.33
STA 929+00	MEDIAN	0.33
STA 930+50	MEDIAN	0.33
TOTAL		46

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

CONCRETE REPAIR AND REPLACEMENT

LOCATION			* 416.0610 DRILLED TIE BARS	* 416.0620 DRILLED DOWEL BARS	* 416.1710 CONCRETE PAVEMENT REPAIR	* 416.1720 CONCRETE PAVEMENT REPLACEMENT	* 690.0250 SAWING CONCRETE
STAGE	STATION	DIRECTION	EACH	EACH	SY	SY	LF
1	790+95	NB	--	16	8	--	36
1	795+67	NB	--	16	8	--	36
1	799+77	NB	--	16	11	--	40
1	800+97	NB	--	16	8	--	36
1	803+33	NB	--	16	8	--	36
1	805+32	NB	--	16	8	--	36
1	806+45	NB	--	16	8	--	36
1	809+13	NB	--	16	8	--	36
1	842+30	SB	--	16	11	--	40
1	866+93	SB	--	16	8	--	36
1	879+73	SB	--	16	8	--	36
1	921+62	NB	--	16	8	--	36
1	922+24	NB	--	16	8	--	36
1	932+76	NB	--	16	8	--	36
1	934+86	SB	--	22	18	--	52
1	935+15	NB	--	16	11	--	40
1	937+44	NB	--	16	8	--	36
1	940+70	SB	--	16	8	--	36
1	942+69	SB	--	16	8	--	36
1	943+08	SB	--	16	8	--	36
1	943+88	SB	--	16	8	--	36
1	946+08	SB	--	16	8	--	36
1	949+90	SB	--	16	8	--	36
1	952+62	SB	--	16	8	--	36
1	954+25	NB	--	16	8	--	36
1	954+25	SB	--	16	8	--	36
1	957+55	SB	--	16	8	--	36
1	958+65	SB	--	16	8	--	36
1	959+55	SB	--	16	8	--	36
1	960+00	SB	--	16	11	--	40
1	961+68	SB	--	16	8	--	36
1	962+60	NB	--	28	15	--	56
1	964+85	SB	--	16	8	--	36
1	965+60	NB	--	16	8	--	36
1	966+05	SB	--	16	8	--	36
1	966+47	SB	7	16	--	27	64
1	967+30	NB	--	16	13	--	44
1	975+16	SB	--	16	8	--	36
1	975+41	SB	7	16	--	27	64
1	975+72	SB	--	16	11	--	40
		SUBTOTAL	14	658	341	54	1,560

*ADDITIONAL QUANTITIES ELSEWHERE

(CONTINUED IN NEXT SECTION)

CONCRETE REPAIR AND REPLACEMENT (CONTINUED FROM PREVIOUS SECTION)

LOCATION			* 416.0610 DRILLED TIE BARS	* 416.0620 DRILLED DOWEL BARS	* 416.1710 CONCRETE PAVEMENT REPAIR	* 416.1720 CONCRETE PAVEMENT REPLACEMENT	* 690.0250 SAWING CONCRETE
STAGE	STATION	DIRECTION	EACH	EACH	SY	SY	LF
1	977+41	SB	--	16	13	--	44
1	980+40	SB	--	16	13	--	44
1	986+84	SB	--	16	17	--	50
1	988+00	SB	--	16	8	--	36
1	988+58	SB	--	16	13	--	44
1	990+31	SB	10	16	--	40	84
1	992+90	SB	--	16	8	--	36
1	995+50	SB	--	16	13	--	44
1	997+36	SB	14	16	--	53	104
1	1004+25	SB	--	16	8	--	36
1	1007+76	SB	--	16	8	--	36
1	1016+65	SB	--	16	8	--	36
1	1020+92	SB	7	16	--	27	64
1	1032+43	SB	--	16	13	--	44
1	1039+33	SB	--	16	13	--	44
2	767+43	NB	--	20	16	--	48
2	790+95	NB	--	32	13	--	40
2	799+77	NB	--	20	12	--	28
2	800+97	NB	--	20	9	--	28
2	803+33	NB	--	20	9	--	28
2	806+45	NB	--	20	9	--	28
2	808+85	NB	--	20	9	--	34
2	809+13	NB	--	20	9	--	28
2	879+73	SB	--	20	9	--	34
2	897+97	SB	--	20	9	--	40
2	921+62	NB	--	20	9	--	28
2	922+24	NB	--	20	9	--	28
2	932+76	NB	--	20	9	--	28
2	934+86	SB	--	28	21	--	38
2	935+15	NB	--	20	12	--	28
2	935+46	NB	--	20	9	--	34
2	937+44	NB	--	20	9	--	28
2	938+82	NB	--	20	9	--	34
2	939+46	NB	--	20	9	--	34
2	941+55	NB	--	20	9	--	34
2	942+71	NB	--	20	9	--	34
2	946+03	NB	--	20	9	--	34
2	948+15	NB	--	20	9	--	34
2	949+05	SB	--	20	9	--	34
2	951+65	NB	--	20	9	--	34
		SUBTOTAL	31	760	389	120	1,566

*ADDITIONAL QUANTITIES ELSEWHERE

(CONTINUED ON NEXT SHEET)

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

CONCRETE REPAIR AND REPLACEMENT (CONTINUED FROM PREVIOUS SHEET)

LOCATION			* 416.0610 DRILLED TIE BARS	* 416.0620 DRILLED DOWEL BARS	* 416.1710 CONCRETE PAVEMENT REPAIR	* 416.1720 CONCRETE PAVEMENT REPLACEMENT	* 690.0250 SAWING CONCRETE
STAGE	STATION	DIRECTION	EACH	EACH	SY	SY	LF
2	954+25	NB	--	20	9	--	28
2	958+87	SB	--	20	9	--	34
2	959+61	SB	--	20	9	--	34
2	960+62	NB	--	20	9	--	34
2	962+60	NB	--	20	9	--	28
2	964+18	NB	--	20	9	--	34
2	966+05	SB	7	20	--	31	42
2	966+47	SB	7	20	--	31	28
2	967+30	NB	--	32	27	--	48
2	967+70	SB	--	21	10	--	36
2	968+15	SB	--	26	12	--	42
2	975+16	SB	--	20	9	--	28
2	975+41	SB	--	20	--	31	28
2	975+72	SB	--	20	12	--	28
2	977+41	SB	--	20	16	--	28
2	986+84	SB	--	20	20	--	28
2	988+00	SB	--	20	9	--	28
2	990+31	SB	--	20	--	47	28
2	992+90	SB	--	20	9	--	28
2	995+50	SB	--	20	16	--	28
2	997+36	SB	--	20	--	62	28
2	999+16	SB	--	20	9	--	34
2	1004+25	SB	--	20	9	--	28
2	1007+76	SB	--	20	9	--	28
2	1007+96	SB	--	20	9	--	34
2	1010+83	SB	--	20	9	--	34
2	1015+16	SB	--	20	16	--	38
2	1016+65	SB	--	20	9	--	28
2	1018+45	SB	10	20	--	47	58
2	1020+92	SB	--	20	--	31	28
2	1023+03	SB	15	20	--	62	68
2	1032+38	SB	15	20	--	62	58
2	1039+33	SB	--	20	17	--	30
UNDISTRIBUTED			10	210	101	58	426
		SUBTOTAL	64	889	382	462	1,560
		TOTAL	109	2,307	1,112	636	4,686

*ADDITIONAL QUANTITIES ELSEWHERE

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

CONCRETE REPAIR AND REPLACEMENT SHES

LOCATION			* 416.0610 DRILLED TIE BARS	* 416.0620 DRILLED DOWEL BARS	416.1715 CONCRETE PAVEMENT REPAIR SHES	416.1725 CONCRETE PAVEMENT REPLACEMENT SHES	* 690.0250 SAWING CONCRETE
STAGE	STATION	DIRECTION	EACH	EACH	SY	SY	LF
1	926+58	NB	7	32	--	58	92
1	928+75	NB	18	16	--	69	128
1	929+02	NB	18	16	--	35	44
1	929+98	SB	16	16	10	--	40
1	930+00	NB	--	16	8	--	30
1	930+36	SB	24	16	--	43	88
1	931+42	SB	--	16	8	--	36
1	931+87	SB	--	16	13	--	44
1	971+62	SB	--	16	13	--	44
1	972+51	SB	13	16	--	40	84
1	973+71	SB	--	16	8	--	36
1	974+00	SB	--	16	8	--	36
1	974+15	SB	--	16	13	--	44
1	1001+67	SB	--	16	20	--	54
1	1011+13	SB	--	16	8	--	36
1	1023+80	SB	--	16	8	--	36
1	1026+12	SB	--	34	15	--	56
1	1038+53	SB	12	16	--	33	74
1	1041+78	SB	--	16	8	--	36
2	795+70	NB	42	20	--	93	148
2	926+58	NB	--	32	--	58	52
2	928+80	NB	27	40	--	102	126
2	929+02	NB	--	20	--	40	48
2	929+67	CTH OO, SB	33	10	--	62	110
2	929+69	SB	--	24	11	--	44
2	929+76	CTH OO, NB	28	9	19	--	89
2	930+00	NB	--	20	9	--	34
2	930+03	NB	--	13	15	--	42
2	931+02	SB	--	20	9	--	40
2	968+60	SB	--	20	12	--	44
2	969+08	NB	--	14	7	--	32
2	970+25	NB	7	3	19	--	58
2	970+30	NB	--	20	23	--	58
2	971+62	SB	--	20	16	--	38
2	972+51	SB	3	14	--	44	28
2	972+51	SB	11	20	--	47	58
2	974+15	SB	--	20	16	--	28
2	1001+67	SB	--	20	23	--	28
2	1002+01	SB	--	20	9	--	34
2	1024+00	SB	--	20	9	--	34
2	1026+12	SB	--	18	11	--	32
2	1038+53	SB	12	20	--	39	28
2	1041+26	SB	--	20	16	--	38
2	1044+92	SB	14	20	--	31	68
2	1045+45	SB	--	20	9	--	40
2	1045+80	SB	--	20	9	--	40
2	1046+18	SB	--	20	9	--	40
UNDISTRIBUTED			29	88	39	79	250
		TOTAL	314	963	430	873	2,747

*ADDITIONAL QUANTITIES ELSEWHERE

REMOVING SMALL PIPE CULVERTS

LOCATION	OFFSET	203.0100 EACH
STA 745+71 TO 746+29	5' LT	1
TOTAL		1

CULVERT PIPES

CULVERT	STATION	OFFSET	PIPE SIZE INCH	MATERIAL	PIPE LENGTH FT	ENVIRONMENTAL PROTECTION TYPE	520.8700 CLEANING CULVERT PIPES EACH	* 606.0200 RIPRAP MEDIUM CY	633.5200 MARKERS CULVERT END EACH	* 645.0120 GEOTEXTILE FABRIC TYPE HR SY	SPV.0170.01 DITCHING AND SHAPING STA	GRADING LIMITS
1	662+05	77' RT	19x30	RCP	77	B	1	4	1	13	3	660+90 - 662+50
2	689+00	72' RT	19x30	RCP	72	B	1	4	2	13	2	688+00 - 690+00
3	697+04	69' RT	24	RCP	69	B	1	4	2	13	2	696+00 - 698+00
4	706+00	87' RT	24	RCP	172	B	1	4	2	13	2	705+00 - 707+00
5	715+00	72' RT	19x30	RCP	71	B	1	4	2	13	2	714+00 - 716+00
6	722+00	78' RT	19x30	RCP	78	B	1	4	2	13	2	721+00 - 723+00
7	727+00	78' RT	19x30	RCP	78	B	1	4	2	13	2	726+00 - 728+00
8	734+00	78' RT	19x30	RCP	78	B	1	4	2	13	2	733+00 - 735+00
9	739+98	80' RT	19x30	RCP	86	B	1	4	1	13	4	739+00 - 742+50
10	750+00	70' RT	24	RCP	76	B	1	4	1	13	4	747+00 - 751+00
11	758+01	72' RT	24	RCP	77	B	1	4	1	13	2	757+00 - 759+00
12	774+00	74' LT	24	RCP	66	B	1	4	1	13	4	772+00 - 776+00
13	787+00	73' RT	18	RCP	82	B	1	4	1	11	2	786+50 - 787+50
14	791+07	91' LT	24	RCP	165	B	1	4	2	13	2	790+50 - 791+75
15	803+25	100' LT	12	RCP	57	B	1	3	1	10	2	802+25 - 804+00
16	807+70	102' LT	30	RCP	20	B	1	5	1	15	2	806+70 - 807+70
17	870+98	96' LT	24	RCP	227	B	1	4	1	13	2	871+00 - 873+00
18	875+67	91' LT	15	RCP	21	B	1	4	1	11	2	874+75 - 875+85
18A	904+20	61' RT	12	RCP	84	C	1	2	1	5	1	904+00 - 904+50
19	919+46	48' RT	21	RCP	77	B	1	--	1	--	3	918+50 - 920+50
20	933+82	106' LT	12	RCP	84	B	1	3	1	10	2	933+25 - 934+25
21	938+70	102' LT	12	RCP	69	B	1	3	1	10	2	938+20 - 939+20
22	941+37	95' LT	12	RCP	60	B	1	3	1	10	3	940+50 - 942+50
23	948+01	88' LT	12	RCP	55	B	1	3	1	10	2	947+00 - 949+00
24	957+13	61' RT	12	RCP	75	B	1	3	1	10	2	956+00 958+00
25	976+79	86' LT	12	RCP	53	B	1	3	1	10	1	976+25 - 977+00
26	1005+69	32' RT	18	RCP	37	C	1	4	--	11	2	1005+00 - 1006+50
27	1024+99	93' LT	12	RCP	71	B	1	3	1	10	2	1024+00 - 1026+00
28	1028+24	91' LT	12	RCP	58	B	1	3	1	10	2	1027+00 - 1029+00
29	1031+39	92' LT	12	RCP	58	B	1	3	1	10	3	1030+50 - 1032+50
30	1035+81	42' RT	18	CMP	52	C	1	4	--	11	2	1035+00 - 1037+00
31	1036+34	42' RT	18	CMP	52	--	--	--	--	--	--	Included in 30
32	1036+19	89' LT	15	CMP	35	B	1	4	--	11	3	1035+25 - 1037+50
33	1036+53	89' LT	15	CMP	35	--	--	--	--	--	--	Included in 32
34	1041+26	95' LT	12	RCP	61	C	1	3	--	10	2	1040+00 - 1041+30
					TOTAL		33	116	37	367	75	

*ADDITIONAL QUANTITY ELSEWHERE

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

TEMPORARY STORM SEWER STRUCTURES

STRUCTURE NUMBER	STATION	OFFSET	RIM ELEVATION	DEPTH	SPV.0060.04 TEMPORARY INLET COVERS TYPE B EACH	SPV.0060.05 TEMPORARY INLET COVERS TYPE C EACH	SPV.0060.06 TEMPORARY INLET COVERS TYPE MS EACH	SPV.0060.07 TEMPORARY MANHOLE 3-FT DIAMETER EACH	SPV.0060.08 TEMPORARY INLET 2X2-FT EACH	SPV.0060.09 TEMPORARY INLET MEDIAN 1 GRATE EACH	SPV.0060.10 TEMPORARY INLET MEDIAN 2 GRATE EACH	COMMENTS
T300	893+55	29.5' LT	781.62	2.60	--	--	1	--	--	1	--	GRATE SLOPE = -2%
T301	895+00	25.4' LT	781.79	1.99	--	--	1	--	--	1	--	GRATE SLOPE = -2%
T302	895+75	25.4' LT	782.03	1.73	--	--	1	--	--	1	--	GRATE SLOPE = -1%
T303	898+05	25' LT	781.83	2.01	--	1	--	1	--	--	--	
T304	900+50	30.4' LT	780.79	2.97	--	--	1	--	--	1	--	GRATE SLOPE = -1%
T400	918+65	24' LT	783.12	1.58	--	--	2	--	--	--	1	GRATE SLOPE = -6:1, 6:1
T401	920+20	24' LT	785.41	3.05	--	--	2	--	--	--	1	GRATE SLOPE = -1.7%, 1%
T402	923+15	24' LT	788.59	1.79	1	--	--	--	1	--	--	
T403	924+25	24' LT	789.21	2.10	--	--	2	--	--	--	1	GRATE SLOPE = -6:1, 6:1
				TOTAL	1	1	10	1	1	4	3	

1. STATION AND OFFSETS ARE TO THE CENTER OF STRUCTURES
2. RIM ELEVATIONS ARE GIVEN AT THE CENTER OF STRUCTURE
3. DEPTH = RIM ELEVATION - LOWEST PIPE INVERT - CASTING HEIGHT - ADJUSMENT
4. CASTING HEIGHT = 10" FOR TYPE B COVERS; 8 7/8" FOR TYPE C COVERS; 2" FOR TYPE MS COVERS
5. ADJUSTMENT = 4" TYPICAL (NO ADJUSTMENT FOR INLET COVERS TYPE MS)
6. SLOPES FOR TEMPORARY INLET MEDIAN 1 AND 2 GRATE, LOOKING UP STATION, ARE POSTIVE SLOPING UP TO THE RIGHT AND NEGATIVE SLOPING DOWN TO THE RIGHT

TEMPORARY STORM SEWER PIPE

PIPE NUMBER	FROM STR	TO STR	INLET ELEV	DISCHARGE ELEV	SLOPE	STORM SEWER PIPE TEMPORARY SPV.0090.01 12-INCH LF	STORM SEWER PIPE TEMPORARY SPV.0090.02 15-INCH LF	COMMENTS
PT300	T300	E92C	778.85	777.80	0.75%	140	--	
PT301	T301	T300	779.63	778.90	0.50%	145	--	
PT302	T302	T301	780.13	779.75	0.50%	75	--	
PT303	T303	E101	778.75	778.00	0.75%	--	100	REINFORCED CONCRETE PIPE REQUIRED
PT304	T304	E103A	777.65	777.50	4.00%	4	--	
PT400	T400	E124C	781.37	781.00	1.00%	37	--	REINFORCED CONCRETE PIPE REQUIRED
PT401	T401	E124B	782.19	781.00	1.00%	119	--	
PT402	T402	E125B	785.63	785.42	2.00%	11	--	REINFORCED CONCRETE PIPE REQUIRED
PT403	T403	T402	786.94	785.73	1.10%	110	--	
					TOTAL	641	100	

1. PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES

DRAIN SLOTTED VANE LONGITUDINAL TEMPORARY

BEGIN STATION	BEGIN OFFSET	BEGIN ELEVATION	END STATION	END OFFSET	END ELEVATION	SPV.0090.03 LF	COMMENTS
896+50	24' LT	782.04	898+04	24' LT	781.83	154	CONNECT TO STRUCTURE T303
				TOTAL		154	

1. VANE DRAIN TO BE INSTALLED IN LOW POINT OF CROSSOVER
2. ELEVATIONS ARE TO THE CENTER OF CASTING

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

EXISTING STORM SEWER STRUCTURE REMOVALS

EXISTING STRUCTURE NUMBER	STATION	OFFSET	EXISTING STRUCTURE TYPE	EXISTING COVER TYPE	DEPTH	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	COMMENTS
1	900+71	26' LT	2 X 3	HM	6.11	--	1	
2	900+72	59' RT	15" AEW	--	--	--	--	
3	904+75	19' LT	24"	C	2.50	--	1	
4	906+02	22' LT	24"	C	2.35	--	1	
5	906+36	18' LT	24"	C	2.69	--	1	
6	907+40	18' LT	24"	C	2.54	--	1	
7	907+51	31' LT	24"	C	2.30	--	1	
8	906+13	55' RT	42" AEW	--	--	--	--	
9	906+12	85' LT	6' DIA.	J	6.90	1	--	
10	906+12	102' LT	MEDIAN 2G	MS	1.67	--	1	
11	911+27	86' LT	6' DIA.	J	5.62	1	--	
12	911+25	96' LT	MEDIAN 2G	MS	2.50	--	1	
13	911+2	70' LT	2 X 3	HM	5.74	--	1	
14	911+27	34' LT	2 X 3	HM	5.92	--	1	
15	911+27	14' LT	2 X 3	HM	5.84	--	1	
16	913+11	74' LT	24"	C	3.74	--	1	
17	913+77	80' LT	6' DIA.	J	5.04	1	--	
18	913+75	70' LT	2 X 3	HM	3.84	--	1	
19	913+97	70' LT	2 X 3	HM	3.16	--	1	
20	913+76	34' LT	2 X 3	HM	3.46	--	1	
21	913+96	34' LT	2 X 3	HM	3.02	--	1	
22	913+77	14' LT	2 X 3	HM	3.04	--	1	
23	913+96	14' LT	2 X 3	HM	2.83	--	1	
24	913+11	31' LT	24"	C	1.95	--	1	
25	914+98	73' LT	24"	C	3.16	--	1	
26	916+02	80' LT	6' DIA.	J	4.80	1	--	
27	916+00	95' LT	MEDIAN 2G	MS	2.20	--	1	
28	916+02	34' LT	2 X 3	HM	5.15	--	1	
29	915+61	31' LT	24"	C	2.74	--	1	
30	915+61	17' LT	24"	C	2.43	--	1	
31	916+02	14' LT	2 X 3	HM	5.07	--	1	
32	916+02	45' RT	15" AEW	--	--	--	--	
					TOTAL	4	25	

1. STATION AND OFFSETS ARE TO THE CENTER OF STRUCTURES
2. DEPTH = RIM ELEVATION - DISCHARGE INVERT
3. AEW REMOVAL PAID FOR AS REMOVING STORM SEWER (SIZE)

EXISTING STORM SEWER PIPE REMOVALS

FROM STR	TO STR	204.0245 REMOVING STORM SEWER 12-INCH LF	15-INCH LF	18-INCH LF	42-INCH LF	COMMENTS
1	2	--	85	--	--	
9	8	--	--	--	140	
10	9	16	--	--	--	
11	9	--	--	--	515	
15	14	--	20	--	--	
14	13	--	36	--	--	
13	11	--	--	16	--	
12	11	10	--	--	--	
17	11	--	--	--	251	
23	22	20	--	--	--	
22	20	20	--	--	--	
21	20	20	--	--	--	
20	18	36	--	--	--	
19	18	20	--	--	--	
18	17	10	--	--	--	
26	17	--	--	--	225	
32	31	--	60	--	--	
31	28	--	20	--	--	
28	26	--	46	--	--	
27	26	15	--	--	--	
TOTAL		167	267	16	1,131	

1. PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

3

EXISTING STORM SEWER STRUCTURE WORK

STRUCTURE NUMBER	STATION	OFFSET	EXISTING STRUCTURE TYPE	EXISTING COVER TYPE	RIM ELEVATION	DISCHARGE INVERT	DEPTH	204.9060.S REMOVING INLET COVERS EACH	611.9705 SALVAGED MANHOLE COVERS EACH	611.9710 SALVAGED INLET COVERS EACH	SPV.0060.01 INLET COVERS TYPE H WITH CURB PLATE EACH	SPV.0060.02 COVER PLATE TEMPORARY EACH	SPV.0060.03 STORM SEWER TAP TEMPORARY EACH	COMMENTS
E75	875+67	69.83' LT	2X3 FT	HM	779.35	--	--	1	--	--	1	--	--	
E81A	876+84	69.83' LT	2X3 FT	HM	778.98	--	--	1	--	--	1	--	--	
E82B	879+01	69.83' LT	2X3 FT	HM	778.83	--	--	1	--	--	1	--	--	
E92C	892+16	14' LT	2X3 FT	HM	781.80	777.69	4.11	--	--	--	--	--	1	
E101	899+05	24' LT	4-FT DIA	J	782.33	772.46	9.87	--	1	--	--	1	1	
E103A	900+51	34' LT	2X3 FT	HM	780.76	775.74	5.02	--	--	1	--	1	1	
E103	900+71	34' LT	2X3 FT	HM	780.77	--	--	--	--	1	--	1	--	
E124B	919+01	34' LT	2X3 FT	HM	784.24	776.67	7.57	--	--	1	--	1	1	
E124C	919+01	14' LT	2X3 FT	HM	783.94	776.68	7.26	--	--	1	--	1	1	
E125B	923+11	34' LT	2X3 FT	HM	788.74	784.72	4.02	--	--	1	--	1	1	
E125C	923+11	14' LT	2X3 FT	HM	788.32	--	--	--	--	1	--	1	--	
							TOTAL	3	1	6	3	7	6	

1. STATION AND OFFSETS ARE TO THE CENTER OF STRUCTURES
2. RIM ELEVATIONS ARE GIVEN AT THE CENTER OF STRUCTURE
3. DEPTH = RIM ELEVATION - DISCHARGE INVERT

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

STORM SEWER STRUCTURES

	STRUCTURE NUMBER	STATION	OFFSET	RIM ELEVATION	DEPTH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.1042 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 42-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0627 INLET COVERS TYPE HM EACH	611.0636 INLET COVERS TYPE HM-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	COMMENTS
	100	900+71	55.2' RT	772.75	--	1	--	--	--	--	--	--	--	--	--	OUTLET AEW
	100A	900+71	25.5' LT	780.91	6.04	--	--	--	1	--	--	--	--	1	--	
	100B	901+03	26' LT	780.85	--	--	--	--	--	--	--	--	--	--	--	EXISTING INLET 2X3-HM
	E103	900+71	34' LT	780.86	--	--	--	--	--	--	--	--	--	--	--	EXISTING INLET 2X3-HM
	200	906+10	53' RT	773.80	--	--	1	--	--	--	--	--	--	--	--	OUTLET AEW
*	201	906+10	85' LT	781.20	6.08	--	--	1	--	--	--	--	1	--	--	
	201A	906+10	97' LT	778.53	2.26	--	--	--	--	--	2	--	--	--	1	NO SLOPE ON GRATES
	202	909+00	85' LT	781.97	6.33	--	--	1	--	--	--	1	--	--	--	
	203	911+25	85' LT	780.68	4.63	--	--	1	--	--	--	1	--	--	--	
	203A	911+25	13.5' LT	781.56	3.22	--	--	--	1	--	--	--	--	1	--	
	203B	911+25	34.5' LT	781.57	3.49	--	--	--	1	--	--	--	--	1	--	
	203C	911+25	69.5' LT	781.41	3.68	--	--	--	1	--	--	--	--	1	--	
	203D	911+25	96.25' LT	779.56	2.16	--	--	--	--	--	2	--	--	--	1	NO SLOPE ON GRATES
*	204	914+10	76.5' LT	780.77	4.21	--	--	1	--	--	--	1	--	--	--	
	204A	913+00	13.5' LT	780.70	2.84	--	--	--	1	--	--	--	--	1	--	
	204B	913+10	34.5' LT	780.67	3.08	--	--	--	1	--	--	--	--	1	--	
	204C	914+06	13.5' LT	780.50	3.43	--	--	--	--	1	--	--	--	1	--	
	204D	914+10	34.5' LT	780.47	3.52	--	--	--	--	1	--	--	--	1	--	
	204E	913+10	69.5' LT	780.51	3.37	--	--	--	1	--	--	--	--	1	--	
	204F	914+10	69.5' LT	780.31	3.83	--	--	--	--	1	--	--	--	1	--	
*	205	916+00	80' LT	781.24	4.36	--	--	1	--	--	--	1	--	--	--	
	205A	916+00	13.5' LT	781.18	4.27	--	--	--	1	--	--	--	--	1	--	
	205B	916+00	34.5' LT	781.17	4.35	--	--	--	1	--	--	--	--	1	--	
	205C	916+00	69.5' LT	780.01	3.33	--	--	--	1	--	--	--	--	1	--	
	205D	916+00	94' LT	779.50	2.33	--	--	--	--	--	2	--	--	--	1	NO SLOPE ON GRATES
	206	916+00	37.5' RT	776.29	--	1	--	--	--	--	--	--	--	--	--	INLET AEW
	207	919+01	96' LT	780.58	--	--	--	--	--	--	--	--	--	--	--	EXISTING INLET MEDIAN 2G-MS
			TOTAL			2	1	5	10	3	6	4	1	13	3	

1. STATION AND OFFSETS ARE TO THE CENTER OF STRUCTURES
2. RIM ELEVATIONS ARE GIVEN AT THE CENTER OF STRUCTURE FOR MANHOLES AND MEDIAN INLETS AND AT FLANGE LINE FOR INLETS 2X3
3. STATION,OFFSET AND ELEVATION FOR APRON ENDWALLS ARE MEASURED AT THE END OF PIPE SECTION
4. DEPTH = RIM ELEVATION - LOWEST PIPE INVERT - CASTING HEIGHT - ADJUSMENT
5. CASTING HEIGHT = 6" FOR TYPE HM AND HM-S COVERS; 2" FOR TYPE MS; 8 7/8" FOR TYPE J
6. ADJUSTMENT = 4" TYPICAL (NO ADJUSTMENT FOR INLET COVERS TYPE MS)

* ADJUSTMENT 6" FOR STRUCTURE 201 AND 0" FOR STRUCTURES 204 AND 205.

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

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STORM SEWER PIPES

PIPE NUMBER	FROM STR	TO STR	INLET ELEV	DISCHARGE ELEV	SLOPE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	COMMENTS
P100	100A	100	774.04	772.75	1.59%	--	81	--	--	--	
P100A	E103	100A	774.80	774.32	5.70%	--	--	--	--	--	EXISTING 12" PIPE
P100B	100B	100A	774.74	774.32	1.33%	--	--	--	--	--	EXISTING 12" PIPE
P200	201	200	774.05	773.80	0.18%	--	--	138	--	--	
P201	202	201	774.57	774.05	0.18%	--	--	290	--	--	
P201A	201A	201	776.10	775.50	5.00%	12	--	--	--	--	
P202	203	202	774.97	774.57	0.18%	--	--	225	--	--	
P203	204	203	775.49	774.97	0.18%	--	--	285	--	--	
P203A	203A	203B	777.50	777.34	0.75%	--	--	--	--	21	
P203B	203B	203C	777.25	776.99	0.75%	--	--	--	--	35	
P203C	203C	203	776.90	776.75	1.00%	--	--	--	--	16	
P203D	203D	203	777.24	776.90	3.00%	11	--	--	--	--	
P204	205	204	775.81	775.49	0.17%	--	--	190	--	--	
P204A	204A	204B	777.03	776.80	1.00%	--	--	--	23	--	
P204B	204B	204D	776.75	776.25	0.50%	--	--	--	100	--	
P204C	204C	204D	776.23	776.13	0.50%	--	--	--	--	21	
P204D	204D	204F	776.11	775.68	1.25%	--	--	--	--	35	
P204E	204E	204F	776.30	775.80	0.50%	--	--	--	100	--	
P204F	204F	204	775.64	775.50	2.00%	--	--	--	--	7	
P205	207	205	777.00	776.00	0.33%	--	--	--	--	--	EXISTING 36" PIPE
P205A	205A	205B	776.07	775.99	0.40%	--	--	--	--	21	
P205B	205B	205C	775.99	775.85	0.40%	--	--	--	--	35	
P205C	205C	205	775.85	775.81	0.40%	--	--	--	--	11	
P205D	205D	205	777.75	777.47	2.00%	14	--	--	--	--	
P206	206	205A	776.29	776.09	0.40%	--	--	--	--	51	
					TOTAL	37	81	1,128	223	253	

1. PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES
2. PIPE LENGTHS FOR APRON ENDWALLS ARE MEASURED FROM CENTER OF STRUCTURE TO END OF PIPE SECTIONS, NOT END OF APRON ENDWALL.

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

EROSION CONTROL

LOCATION	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.6005 TURBIDITY BARRIER SY	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH
STH 36											
663+50 TO 767+00	--	2,180	2,180	--	--	6	--	--	280	27	134
767+00 TO 904+00	--	1,530	1,530	--	5	2	70	4	180	2	65
917+50 TO 1047+05	--	785	785	--	4	3	68	4	250	14	55
RECONSTRUCTION											
STAGE A	--	1,425	1,425	--	4	2	4	1	--	--	--
STAGE B	--	--	--	--	17	--	16	2	--	--	--
CTH OO / USH 45	--	--	--	--	--	1	5	--	20	--	--
UNDISTRIBUTED	20	1,475	1,475	120	8	3	32	3	190	11	92
TOTAL	20	7,395	7,395	120	38	17	195	14	920	54	346

LANDSCAPING

LOCATION	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.2027 EROSION MAT CLASS II TYPE C SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0160 SEEDING MIXTURE NO. 60 LB	630.0200 SEEDING TEMPORARY LB	631.1100 SOD EROSION CONTROL SY
STH 36										
663+50 TO 767+00	--	4,879	--	698	4,181	0.45	12	53	37	--
767+00 TO 904+00	83	2,131	--	113	2,101	0.05	4	27	16	6
917+50 TO 1047+05	--	3,965	--		3,965	0.51	15	39	32	--
RECONSTRUCTION										
STAGE A	2,420	83	--	2,420	83	2.69	77	--	116	15
STAGE B	3,585	--	--	3,585	--	2.26	65	--	98	--
TEMPORARY CROSSOVER										
STA 893+00 to 901+15	1,487	--	--	1,733	--	0.94	27	--	47	--
STA 917+50 to 925+55	1,327	--	--	1,533	--	0.84	24	--	42	--
UNDISTRIBUTED	2,226	2,765	500	2,521	2,583	2.00	56	30	97	6
TOTAL	11,128	13,823	500	12,603	12,913	9.74	280	149	485	27

EROSION CONTROL MOBILIZATIONS

LOCATON	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
TOTAL	18	13

RIPRAP MEDIUM

LOCATION	* 606.0200 RIPRAP MEDIUM CY	* 645.0120 GEOTEXTILE FABRIC TYPE HR SY
AEW, STA 900+71	4	12
AEW, STA 906+10	7	22
TOTAL	11	34

*ADDITONAL QUANTITY ELSEWHERE

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

3

BEAM GUARD ITEMS

LOCATION		204.0165	614.0396	614.2300	614.2330	614.2500 MGS	614.2610	614.2620
STA TO STA	DIRECTION	REMOVING GUARDRAIL LF	GUARDRAIL MOW STRIP ASPHALT SY	GUARDRAIL 3 LF	GUARDRAIL 3 K LF	THRIE BEAM TRANSITION LF	GUARDRAIL TERMINAL EAT EACH	GUARDRAIL TERMINAL TYPE 2 EACH
739+23 TO 742+93	NB, OUTSIDE	370	137	213	--	39	1	--
741+53 TO 743+71	NB, INSIDE	--	97	125	--	39	1	--
742+93 TO 744+69	SB, OUTSIDE	145	--	178	--	--	--	1
743+20 TO 743+88	SB, INSIDE	278	30	78	--	--	--	1
743+81 TO 744+98	NB, OUTSIDE	--	--	116	--	--	--	1
744+62 TO 746+28	NB, INSIDE	284	69	166	--	--	--	1
744+85 TO 747+65	SB, INSIDE	--	119	188	--	39	1	--
745+63 TO 749+07	SB, OUTSIDE	357	16	250	--	39	1	--
873+07 TO 875+86	NB, OUTSIDE	302	--	226	--	--	1	1
873+53 TO 875+95	SB, OUTSIDE	201	29	129	60	--	1	1
876+53 TO 878+44	SB, OUTSIDE	--	--	139	--	--	1	1
1019+85 TO 1022+77	SB, OUTSIDE	263	14	239	--	--	1	1
1020+04 TO 1021+83	NB, OUTSIDE	75	--	126	--	--	1	1
TOTAL		2,275	511	2,172	60	156	9	9

BARRIER SYSTEM GRADING SHAPING FINISHING

LOCATION		**EXCAVATION COMMON	**BORROW	**SALVAGED TOPSOIL	**FERTILIZER TYPE B	**SEED MIXTURE NO. 30	**SEED MIXTURE NO. 80	**EROSION MAT URBAN CLASS I TYPE A	614.0010
STA TO STA	DIRECTION	CY	CY	SY	CWT	LB	LB	SY	EACH
739+29 TO 742+92	NB, OUTSIDE	--	19	166	--	--	1	166	1
742+34 TO 744+71	SB, OUTSIDE	4	33	189	0.12	3	--	189	1
742+60 TO 743+88	SB, INSIDE	3	--	17	0.01	1	--	17	1
743+81 TO 745+18	NB, OUTSIDE	--	14	90	0.06	2	--	90	1
745+64 TO 749+92	SB, OUTSIDE	--	63	353	0.22	6	--	353	1
872+27 TO 876+01	NB, OUTSIDE	6	26	316	0.20	6	--	316	1
873+53 TO 876+07	SB, OUTSIDE	9	--	154	--	--	1	154	1
876+50 TO 879+50	SB, OUTSIDE	4	--	120	0.08	2	--	120	1
1019+61 TO 1023+56	SB, OUTSIDE	--	--	68	0.04	1	--	68	1
1019+93 TO 1022+20	NB, OUTSIDE	1	35	300	0.19	5	--	300	1
TOTAL		26	190	1,772	0.92	27	2	1,772	10

**INCIDENTAL TO BARRIER SYSTEM GRADING SHAPING FINISHING

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

3

TRAFFIC CONTROL

	633.1100 DELINEATORS TEMPORARY		643.0300		643.0420		643.0500 FLEXIBLE TUBULAR MARKER POSTS		643.0600	
	SINGLE SIDED	DOUBLE SIDED YELLOW	DRUMS		BARRICADES TYPE III		ORANGE	WHITE	FLEXIBLE TUBULAR MARKER BASES	ESTIMATED
	EACH	EACH	EACH	DAYS	EACH	DAYS	EACH	EACH	EACH	DURATION
PHASE 1										
STAGE 1	--	--	805	24,150	62	1,860	--	--	--	30
STAGE 2	--	--	620	36,580	28	1,652	--	--	--	59
PHASE 2										
STAGE 1	--	--	919	47,788	68	3,536	--	--	--	52
STAGE 2	--	--	903	52,374	56	3,248	--	--	--	58
RECONSTRUCTION SECTION										
STAGE A	13	--	134	7,370	35	1,925	101	--	101	55
STAGE B	12	--	123	8,487	28	1,932	88	--	88	69
TEMP X-OVER NOT IN USE	--	16	--	--	--	--		126	126	
UNDISTRIBUTED	5	5	--	--	--	--	28	19	47	
TOTAL	51			176,749		14,153	362		362	

(CONTINUED IN NEXT SECTION)

3

TRAFFIC CONTROL (CONTINUED FROM PREVIOUS SECTION)

	643.0705 WARNING LIGHTS TYPE A		643.0715 WARNING LIGHTS TYPE C		643.0800 ARROW BOARDS		643.0900 SIGNS		643.0920 COVERING SIGNS TYPE II	643.1050 SIGNS PCMS		
	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	EACH	DAYS	ESTIMATED DURATION
PHASE 1												
STAGE 1	124	3,720	27	810	4	120	211	6,330	20	2	20	30
STAGE 2	56	3,304	26	1,534	4	236	200	11,800	6	2	10	59
PHASE 2												
STAGE 1	136	7,072	43	2,236	4	208	226	11,752	22	2	20	52
STAGE 2	112	6,496	28	1,624	4	232	212	12,296	8	2	10	58
RECONSTRUCTION SECTION												
STAGE A	53	2,915	42	2,310	--	--	52	2,860	--	3	15	55
STAGE B	26	1,794	23	1,587	--	--	53	3,657	--	3	15	69
UNDISTRIBUTED	--	--	--	--	--	--	--	--	--	--	--	
TOTAL		25,301		10,101		796		48,695	56		90	

TRAFFIC CONTROL SIGNS FIXED MESSAGE

SIGN	SIZE	EACH	643.1000 SF
A	6' X 6.5'	4	156
		TOTAL	156

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

TEMPORARY PAVEMENT MARKING

LOCATION	646.0600 REMOVING PAVEMENT MARKINGS LF	649.0400 REMOVABLE TAPE 4-INCH YELLOW LF	649.0400 REMOVABLE TAPE 4-INCH WHITE LF	649.0506 REMOVABLE MASK-OUT TAPE 6-INCH LF	649.0510 REMOVABLE MASK-OUT TAPE 10-INCH LF	649.0801 REMOVABLE TAPE 8-INCH WHITE LF	649.2100 TEMPORARY RAISED PAVEMENT MARKERS YELLOW EACH	649.2100 TEMPORARY RAISED PAVEMENT MARKERS WHITE EACH
PHASE 1								
STAGE 1	--	4,375	--	503	50	2,425	--	--
STAGE 2	--	--	3,475	398	--	2,075	--	--
PHASE 2								
STAGE 1	--	5,760	--	535	--	2,400	--	--
STAGE 2	--	--	3,910	440	--	2,475	--	--
RECONSTRUCTION SECTION								
STAGE A	3,830	8,035	7,950	188	600	--	120	110
STAGE B	2,370	8,065	7,640	155	300	--	126	122
SUBTOTAL	**--**	26,235	22,975	--	--	--	246	232
TOTAL	6,200	49,210		2,219	950	9,375	478	

PAVEMENT MARKING

LOCATION	646.0106 EPOXY 4-INCH YELLOW LF	646.0106 EPOXY 4-INCH DOUBLE YELLOW LF	646.0106 EPOXY 4-INCH WHITE LF	646.0841.S GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH 12.5' LINE LF	646.0843.S GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH LF	646.0881.S GROOVED WET REFLECTIVE TAPE 4-INCH 12.5' LINE LF	646.0883.S GROOVED WET REFLECTIVE TAPE 8-INCH LF	647.0456 CURB EPOXY LF	647.0606 ISLAND NOSE EPOXY EACH	647.0726 DIAGONAL EPOXY 12-INCH WHITE LF	SPV.0060.12 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2 EACH	SPV.0060.13 GROOVED PREFORMED THERMOPLASTIC WORDS EACH	SPV.0060.14 GROOVED PREFORMED THERMOPLASTIC YIELD LINE SYMBOLS 18-INCH EACH	SPV.0090.05 GROOVED PREFORMED THERMOPLASTIC STOP LINE 18-INCH LF	SPV0090.06 GROOVED PREFORMED THERMOPLASTIC CROSSWALK 8-INCH LF
STAGE 1															
STA 663+50 TO 744+00	16,100	--	--	--	--	--	--	--	--	--	--	--	--	--	--
STA 744+00 TO 795+00	9,500	--	--	--	1,000	--	1,200	170	4	--	--	--	--	25	120
STA 795+00 TO 834+00	7,100	--	--	--	400	--	400	170	4	--	--	--	--	--	--
STA 834+00 TO 904+00	13,300	--	--	--	650	--	600	220	7	--	--	--	--	--	--
STA 904+00 TO 917+50	2,700	--	--	--	--	--	200	--	--	--	--	--	--	--	--
STA 917+50 TO 971+00	9,600	--	--	--	1,550	--	--	170	7	--	--	--	--	10	--
STA 971+00 TO 1047+05	14,300	--	--	--	2,000	--	1,400	380	18	--	--	--	--	10	--
STAGE 2															
STA 663+50 TO 744+00	--	--	16,100	850	--	4,050	--	--	--	--	--	--	--	40	--
STA 744+00 TO 795+00	--	--	9,500	--	500	1,600	300	--	--	--	--	--	--	--	100
STA 795+00 TO 834+00	--	--	7,600	1,400	--	550	200	--	--	--	--	--	--	--	--
STA 834+00 TO 904+00	--	--	13,700	1,650	250	1,700	200	--	--	--	--	--	--	--	--
STA 904+00 TO 917+50	--	--	2,700	--	--	850	350	--	--	--	--	--	--	--	--
STA 917+50 TO 971+00	--	--	10,000	2,550	1,550	--		--	--	--	--	--	--	55	--
STA 971+00 TO 1047+05	--	--	15,500	2,150	950	1,850	50	--	--	--	2	2	--	100	--
MUSKEGO DAM ROAD	--	500	300	--	350	--	250	--	--	230	--	--	29	30	100
CTH G	--	200	100	--	--	--		--	--	--	--	--	--	15	--
THODE DRIVE	--	300	200	--	--	--		--	--	--	--	--	--	30	--
CHAMPIONS DRIVE	--	100	--	--	--	--		--	1	--	--	--	--	65	--
CTH OO/USH 45	--	2,300	1,500	50	--	--	200	-	--	330	3	3	--	125	--
CTH H	--	300	200	--	200	--		--	--	30	--	--	11	15	--
FALCON LN	--	--	-- --	--	--	-- --	--	-- --	--	-- --	--	--	--	35	--
DEERWOOD LN	--	--	-- --	--	--	-- --	--	-- --	--	-- --	--	--	--	20	--
SUBTOTAL	72,600	3,700	77,400	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL		153,700		8,650	9,400	10,600	5,350	1,110	41	590	5	5	40	575	320

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

PAVEMENT MARKING - OUTFALL

LOCATION	* 646.0805.S OUTFALL EACH
NORTHBOUND	
INSIDE SHOULDER	
672+00	1
765+50	1
767+95	1
770+45	1
763+00	1
787+30	1
OUTSIDE SHOULDER	
666+97	1
675+50	1
679+10	1
683+75	1
693+00	1
701+50	1
705+95	1
711+00	1
718+25	1
724+50	1
737+00	1
743+95	1
745+95	1
748+05	1
751+95	1
754+95	1
763+00	1
765+50	1
767+95	1
770+55	1
774+95	1
777+05	1
778+05	1
782+10	1
793+45	1
797+45	1
803+40	1
805+55	1
807+85	1
810+05	1
917+25	1
923+25	1
925+65	1
947+95	1
968+25	1
SUBTOTAL	41

*ADDITIONAL QUANTITIES ELSEWHERE
(CONTINUED IN NEXT SECTION)

PAVEMENT MARKING - OUTFALL
(CONTINUED FROM PREVIOUS SECTION)

LOCATION	* 646.0805.S OUTFALL EACH
SOUTHBOUND	
INSIDE SHOULDER	
675+00	1
678+00	1
681+00	1
684+00	1
687+00	1
690+05	1
693+00	1
696+00	1
699+00	1
702+05	1
705+00	1
708+00	1
710+50	1
713+50	1
715+00	1
716+50	1
719+50	1
721+00	1
722+50	1
724+05	1
725+50	1
727+00	1
728+50	1
729+85	1
731+55	1
733+00	1
734+50	1
740+55	1
769+00	1
774+00	1
OUTSIDE SHOULDER	
672+00	1
675+00	1
678+00	1
681+00	1
684+00	1
687+00	1
690+05	1
693+00	1
696+00	1
SUBTOTAL	39

*ADDITIONAL QUANTITIES ELSEWHERE
(CONTINUED IN NEXT SECTION)

PAVEMENT MARKING - OUTFALL
(CONTINUED FROM PREVIOUS SECTION)

LOCATION	* 646.0805.S OUTFALL EACH
SOUTHBOUND	
OUTSIDE SHOULDER	
699+00	1
702+05	1
705+00	1
708+00	1
710+50	1
712+00	1
713+50	1
715+00	1
716+50	1
719+50	1
721+00	1
722+75	1
724+05	1
725+50	1
727+00	1
728+50	1
730+10	1
731+55	1
733+00	1
734+65	1
736+00	1
737+50	1
739+05	1
740+55	1
741+95	1
760+85	1
763+10	1
766+00	1
769+00	1
773+90	1
776+35	1
782+35	1
785+00	1
792+95	1
997+90	1
1014+90	1
CTH OO/USH 45	
10+15	1
SUBTOTAL	37
TOTAL	117

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

STRUCTURES ITEMS

*

CATEGORY	LOCATION	509.1500 CONCRETE SURFACE REPAIR SF	606.0300 RIPRAP HEAVY CY	645.0120 GEOTEXTILE FABRIC TYPE HR SY	SPV.0060.11 SAFETY GRATE FOR BOX CULVERT EACH	SPV.0105.10 STRAPPING C-67-15 LS	SPV.0105.11 SAND BAGGING AND DEWATERING C-40-02 LS	SPV.0105.12 JOINT REPAIR C-40-02 LS
0040	B-67-100	47	29	44	--	--	--	--
	CATEGORY 0040 TOTAL:	47	29	44	--	--	--	--
0050	B-67-241	10	21	32	--	--	--	--
	CATEGORY 0050 TOTAL:	10	21	32	--	--	--	--
0060	C-67-15	13	--	--	--	1	--	--
	CATEGORY 0060 TOTAL:	13	--	--	--	1	--	--
0070	C-40-02	3	--	--	1	--	1	1
	CATEGORY 0070 TOTAL:	3	--	--	1	--	1	1

*ADDITIONAL QUANTITY ELSEWHERE

CONSTRUCTION STAKING

LOCATION	650.4000 STORM SEWER EACH	650.4500 SUBGRADE LF	650.5000 BASE LF	650.5500 CURB GUTTER AND CURB & GUTTER LF	650.8000 RESURFACING REFERENCE LF	650.9920 SLOPE STAKES LF
STH 36	41	--	--	--	74,010	--
RECONSTRUCTION						
NB, STA 904+00 TO 917+50	--	1,350	1,350	1,350	--	1,350
SB, STA 904+00 TO 917+50	--	1,350	1,350	2,730	--	1,350
BEAM GUARD						
NB, STA 740+83 TO 743+71	--	288	288	--	--	288
NB, STA 744+62 TO 747+03	--	241	241	--	--	241
SB, STA 744+85 TO 748+25	--	340	340	--	--	340
TEMPORARY CROSSOVER						
STA 893+04 TO 901+14	--	810	810	617	--	810
STA 917+50 TO 925+55		805	805	--		805
CTH OO/USH 45	--	--	--	--	900	--
TOTAL	41	5,184	5,184	4,697	74,910	5,184

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1	R7-1D (2M)	--	24	x	30	5.000	--	--	1	1	1	--	--	--
2	R7-1D (2M)	--	24	x	30	5.000	--	--	1	1	1	--	--	--
3	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--
4	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--
5	R7-1D (2M)	--	24	x	30	5.000	--	--	1	1	1	--	--	--
6	J4-1(3)	--	36	x	54	13.500	--	--	--	--	1	--	--	--
	M3-3	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-6	36	36	x	36	--	--	--	--	--	--	--	--	--
7	R6-2L (2M)	--	30	x	36	7.500	--	--	1	1	1	--	--	--
8	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
9	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
10	R7-1D (2M)	--	24	x	30	5.000	--	--	1	1	1	--	--	--
11	R7-1D (2M)	--	24	x	30	5.000	--	--	1	1	1	--	--	--
12	R7-1D (2M)	--	24	x	30	5.000	--	--	1	1	1	--	--	--
13	R5-1A (3)	--	42	x	30	8.750	--	--	1	--	--	--	12	--
14	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
15	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
16	J4-1(3)	--	36	x	54	13.500	--	--	--	--	1	--	--	--
	M3-1	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-6	36	36	x	36	--	--	--	--	--	--	--	--	--
17	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
18	R6-2L (2M)	--	30	x	36	7.500	--	--	1	--	--	--	--	ON SIGNAL POLE
19	M1-94S	36 MILWAUKEE AVE	90	x	18	11.250	--	--	--	--	--	--	--	ON MAST ARM
20	M1-94S MOD	<- Y S LOOMIS RD W LOOMIS RD ->	84	x	27	15.750	--	--	--	--	--	--	--	ON MAST ARM
21	M1-94S MOD	<- W LOOMIS RD Y S LOOMIS RD ->	84	x	27	15.750	--	--	--	--	--	--	--	ON MAST ARM
22	M1-94S	36 MILWAUKEE AVE	90	x	18	11.250	--	--	--	--	--	--	--	ON MAST ARM
23	R6-3 (2M)	--	30	x	24	5.000	--	--	1	--	--	--	--	ON SIGNAL POLE
24	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
25	R6-3 (2M)	--	30	x	24	5.000	--	--	1	--	--	--	--	ON SIGNAL POLE
26	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
27	R7-1D (2M)	--	24	x	30	5.000	--	--	1	--	--	--	40	--
28	R7-1D (2M)	--	24	x	30	5.000	--	--	1	1	1	--	--	--
29	W3-3 (3)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
30	W3-3 (3)	--	36	x	36	--	9.000	--	1	1	1	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	**637.2210** SIGNS TYPE II REFLC H [SF]	**637.2230** SIGNS TYPE II REFLC F [SF]	**637.2215** SIGNS TYPE II REFLC H FOLDING [SF]	**638.2602** REM SIGNS TYPE II [EA]	**638.3000** REM SMALL SIGN SUP [EA]	**634.0618** WOOD POSTS 4"X 6"x18' [EA]	**638.2102** MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
31	R7-1D (2M)	--	24	x	30	5.000	--	--	1	1	1	--	--	--
32	R7-1D (2M)	--	24	x	30	5.000	--	--	1	1	1	--	--	--
33	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--
34	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--
35	R7-1D (2M)	--	24	x	30	5.000	--	--	1	1	1	--	--	--
36	R7-1D (2M)	--	24	x	30	5.000	--	--	1	1	1	--	--	--
37	R7-1D (2M)	--	24	x	30	5.000	--	--	1	1	1	--	--	--
38	R4-7 (3)	--	36	x	48	12.000	--	--	--	--	1	--	--	--
39	R4-7 (3)	--	36	x	48	12.000	--	--	--	--	1	--	--	--
40	R6-2L (2M)	--	30	x	36	7.500	--	--	1	1	1	--	--	--
41	I2-2	RACINE CO	78	x	21	11.375	--	--	1	2	2	--	--	--
42	R59-51 (2M)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
43	I2-2	WAUKESHA CO	96	x	21	14.000	--	--	1	2	2	--	--	--
44	R6-2L (2M)	--	30	x	36	7.500	--	--	1	1	1	--	--	--
45	R4-7 (3)	--	36	x	48	12.000	--	--	--	--	1	--	--	--
46	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
47	R6-2L (2M)	--	30	x	36	7.500	--	--	1	1	1	--	--	--
48	R2-1 (3)	55	36	x	48	12.000	--	--	--	--	1	--	--	--
49	R2-1 (3)	55	36	x	48	12.000	--	--	--	--	1	--	--	--
50	J4-1(3)	--	36	x	54	13.500	--	--	--	--	1	--	--	--
	M3-3	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-6	36	36	x	36	--	--	--	--	--	--	--	--	--
51	M1-94	MUSKEGO DAM RD	--	x	--	--	--	--	1	--	--	--	--	ON SIGNAL POLE
52	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
53	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
54	R3-20LL (3)	--	36	x	54	13.500	--	--	1	1	1	--	--	--
55	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
56	W3-3 (3)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
57	W3-3 (3)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
58	D1-61	MUSKEGO DAM DR	120	x	30	25.000	--	--	1	2	2	--	--	--
59	R3-20L (3)	--	36	x	54	13.500	--	--	1	1	1	--	--	--
60	R3-20LL (3)	--	36	x	54	13.500	--	--	1	1	1	--	--	--
61	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
62	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
63	J4-1(3)	--	36	x	54	13.500	--	--	--	--	1	--	--	--
	M3-1	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-6	36	36	x	36	--	--	--	--	--	--	--	--	--
64	R2-1 (2M)	45	30	x	36	7.500	--	--	1	1	1	--	--	--
65	--	NO TRUCKING OVER 10,000 LBS	--	x	--	--	--	--	1	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
66	R5-2 (2M)	--	24	x	24	4.000	--	--	--	--	--	--	64	--
67	R5-2A (2M)	--	24	x	12	2.000	--	--	--	--	--	--	64	--
68	R6-3 (2M)	--	30	x	24	5.000	--	--	1	--	--	--	--	ON SIGNAL POLE
69	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
70	M1-94S	36 LOOMIS RD	72	x	18	9.000	--	--	--	--	--	--	--	ON MAST ARM
71	M1-94H	MUSKEGO DAM DR	90	x	18	11.250	--	--	--	--	--	--	--	ON MAST ARM
72	R1-2 (3)	--	42	x	36	5.250	--	--	1	1	1	--	--	--
73	R1-2 (3)	--	42	x	36	5.250	--	--	1	1	1	--	--	--
74	R6-2L (2M)	--	30	x	36	7.500	--	--	1	--	--	--	--	ON SIGNAL POLE
75	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
76	R4-7 (3)	--	36	x	48	12.000	--	--	1	--	--	--	--	ON SIGNAL POLE
77	R5-1 (3)	--	36	x	36	9.000	--	--	1	--	--	--	--	ON SIGNAL POLE
78	R5-1 (3)	--	36	x	36	9.000	--	--	1	--	--	--	--	ON SIGNAL POLE
79	R4-7 (3)	--	36	x	48	12.000	--	--	1	--	--	--	--	ON SIGNAL POLE
80	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
81	M1-94H	MUSKEGO DAM DR	90	x	18	11.250	--	--	--	--	--	--	--	ON MAST ARM
82	M1-94S	36 LOOMIS RD	72	x	18	9.000	--	--	--	--	--	--	--	ON MAST ARM
83	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
84	R6-2L (2M)	--	30	x	36	7.500	--	--	1	--	--	--	--	ON SIGNAL POLE
85	R6-3 (2M)	--	30	x	24	5.000	--	--	1	--	--	--	--	ON SIGNAL POLE
86	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
87	--	NO TRUCKING OVER 10,000 LBS	--	x	--	--	--	--	1	1	--	--	--	--
88	R5-2 (2M)	--	24	x	24	4.000	--	--	--	--	1	--	--	--
89	R5-2A (2M)	--	24	x	12	2.000	--	--	--	--	--	--	88	--
90	R1-2 (2S)	--	42	x	36	5.250	--	--	1	1	1	--	--	--
91	R1-2 (2S)	--	42	x	36	5.250	--	--	1	1	1	--	--	--
92	W3-3 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
93	R2-1 (3)	55	36	x	48	12.000	--	--	--	--	1	--	--	--
94	R2-1 (3)	55	36	x	48	12.000	--	--	--	--	1	--	--	--
95	R3-20L (3)	--	36	x	54	13.500	--	--	1	1	1	--	--	--
96	D1-61	MUSKEGO DAM DR	120	x	30	25.000	--	--	1	2	2	--	--	--
97	W3-3 (3)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
98	W3-3 (3)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
99	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--
100	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--

FILE NAME : N:\SPO\Operations\Traffic_Ops\Signing\Miscellaneous Quantities\2240-13-60\030501_mq.pptx PLOT DATE : 7/27/2015 PLOT BY : AJT PLOT NAME : 030501_mq.pdf PLOT SCALE : 1:1

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	**637.2210** SIGNS TYPE II REFLC H [SF]	**637.2230** SIGNS TYPE II REFLC F [SF]	**637.2215** SIGNS TYPE II REFLC H FOLDING [SF]	**638.2602** REM SIGNS TYPE II [EA]	**638.3000** REM SMALL SIGN SUP [EA]	**634.0618** WOOD POSTS 4"X 6"x18' [EA]	**638.2102** MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
101	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
102	R6-2L (2M)	--	30	x	36	7.500	--	--	1	1	1	--	--	--
103	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
104	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
105	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
106	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
107	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
108	R5-1 (3)	--	36	x	36	9.000	--	--	1	--	--	--	--	BEHIND EXISTING J2-1
109	J4-1 (2)	--	24	x	24	4.000	--	--	1	1	1	--	--	--
	M1-5A	G	24	x	24	--	--	--	--	--	--	--	--	--
110	J1-2 (2)	--	48	x	39	13.000	--	--	1	1	1	--	--	--
	M4-6	--	24	x	12	--	--	--	--	--	--	--	--	--
	M1-5A	G	24	x	24	--	--	--	--	--	--	--	--	--
	M2-1	--	21	x	15	--	--	--	--	--	--	--	--	--
	M1-6	36	24	x	24	--	--	--	--	--	--	--	--	--
111	R1-1 (3)	--	36	x	36	7.460	--	--	1	1	1	--	--	--
112	R6-3 (2M)	--	30	x	24	5.000	--	--	1	--	--	--	111	--
113	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
114	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--
115	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--
116	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
117	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
118	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
119	R6-2L (2M)	--	30	x	36	7.500	--	--	1	1	1	--	--	--
120	R1-1 (3)	--	36	x	36	7.460	--	--	1	1	1	--	--	--
121	R6-3 (2M)	--	30	x	24	5.000	--	--	--	--	--	--	120	--
122	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
123	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
124	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
125	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
126	R1-1 (3)	--	36	x	36	7.460	--	--	1	1	1	--	--	--
127	R6-3 (2M)	--	30	x	24	5.000	--	--	1	--	--	--	126	--
128	R6-2L (2M)	--	30	x	36	7.500	--	--	1	1	1	--	--	--
129	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
130	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
131	R6-2L (2M)	--	30	x	36	7.500	--	--	--	--	1	--	--	--
132	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
133	R6-2R (2M)	--	24	x	30	5.000	--	--	--	--	1	--	--	--
134	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
135	R1-1 (3)	--	36	x	36	7.460	--	--	1	1	1	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
136	R6-3 (2M)	--	30	x	24	5.000	--	--	1	--	--	--	135	--
137	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
138	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
139	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
140	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
141	R6-2L (2M)	--	30	x	36	7.500	--	--	1	1	1	--	--	--
142	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
143	R2-1 (3)	55	36	x	48	12.000	--	--	--	--	1	--	--	--
144	R2-1 (3)	55	36	x	48	12.000	--	--	--	--	1	--	--	--
145	R6-2L (2M)	--	30	x	36	7.500	--	--	1	1	1	--	--	--
146	D1-2	<- CHAMPIONS DR LOOMIS DR ->	120	x	42	35.000	--	--	1	2	2	--	--	--
147	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
148	R1-1 (3)	--	36	x	36	7.460	--	--	1	1	1	--	--	--
149	R6-3 (2M)	--	30	x	24	5.000	--	--	1	--	--	--	148	--
150	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
151	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
152	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
153	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
154	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
155	D1-2	<- LOOMIS DR CHAMPION DR ->	120	x	42	35.000	--	--	1	2	2	--	--	--
156	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
157	R1-1 (3)	--	36	x	36	7.460	--	--	1	1	1	--	--	--
158	R6-3 (2M)	--	30	x	24	5.000	--	--	1	--	--	--	157	--
159	R6-2L (2M)	--	30	x	36	7.500	--	--	1	1	1	--	--	--
160	W3-5 (3)	45	36	x	36	--	9.000	--	1	1	1	--	--	--
161	W3-5 (3)	45	36	x	36	--	9.000	--	1	1	1	--	--	--
162	R2-1 (3)	45	36	x	48	12.000	--	--	1	1	1	--	--	--
163	R2-1 (3)	45	36	x	48	12.000	--	--	1	1	1	--	--	--
164	R3-4	--	--	x	--	--	--	--	1	1	--	--	--	--
165	R3-4A	--	--	x	--	--	--	--	1	--	--	--	--	--
166	R3-4B (4)	--	36	x	48	12.000	--	--	--	--	1	--	--	--
167	R3-4	--	--	x	--	--	--	--	1	1	--	--	--	--
168	R3-4A	--	--	x	--	--	--	--	1	--	--	--	--	--
169	R3-4B (4)	--	36	x	48	12.000	--	--	--	--	1	--	--	--
170	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--

TYPE II PERMANENT SIGNING -

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	**637.2210** SIGNS TYPE II REFLC H [SF]	**637.2230** SIGNS TYPE II REFLC F [SF]	**637.2215** SIGNS TYPE II REFLC H FOLDING [SF]	**638.2602** REM SIGNS TYPE II [EA]	**638.3000** REM SMALL SIGN SUP [EA]	**634.0618** WOOD POSTS 4"X 6"x18' [EA]	**638.2102** MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
171	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--
172	R5-1 (3)	--	36	x	36	9.000	--	--	1	--	--	--	173	--
173	J3-2 (3)	--	72	x	84	42.000	--	--	1	2	2	--	--	--
	M3-3	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-6	36	36	x	36	--	--	--	--	--	--	--	--	--
	M6-1	--	30	x	30	--	--	--	--	--	--	--	--	--
	M1-5A	OO	36	x	36	--	--	--	--	--	--	--	--	--
	M6-1	--	30	x	30	--	--	--	--	--	--	--	--	--
174	W3-3 (3)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
175	W3-3 (3)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
176	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
177	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
178	J4-1 (2)	--	24	x	36	6.000	--	--	1	1	1	--	--	--
	M3-3	--	24	x	12	--	--	--	--	--	--	--	--	--
	M1-4	45	24	x	24	--	--	--	--	--	--	--	--	--
179	J3-3 (2)	--	72	x	57	28.500	--	--	1	2	2	--	--	--
	M4-5	--	24	x	12	--	--	--	--	--	--	--	--	--
	M1-5A	OO	24	x	24	--	--	--	--	--	--	--	--	--
	M6-1	--	21	x	21	--	--	--	--	--	--	--	--	--
	M3-1	--	24	x	12	--	--	--	--	--	--	--	--	--
	M1-4	45	24	x	24	--	--	--	--	--	--	--	--	--
	M6-1	--	21	x	21	--	--	--	--	--	--	--	--	--
	M3-3	--	24	x	12	--	--	--	--	--	--	--	--	--
	M1-4	45	24	x	24	--	--	--	--	--	--	--	--	--
	M6-1	--	21	x	21	--	--	--	--	--	--	--	--	--
180	R1-1 (3)	--	36	x	36	7.460	--	--	1	1	1	--	--	--
181	W4-4C (2M)	45	24	x	12	--	2.000	--	1	--	--	--	180	--
182	R1-1 (3)	--	36	x	36	7.460	--	--	1	1	1	--	--	--
183	W4-4C	--	--	x	--	--	--	--	--	--	--	1	182	--
184	J1-2 (2)	--	48	x	39	13.000	--	--	1	1	1	--	--	--
	M2-1	--	21	x	15	--	--	--	--	--	--	--	--	--
	M1-6	36	24	x	24	--	--	--	--	--	--	--	--	--
	M2-1	--	21	x	15	--	--	--	--	--	--	--	--	--
	M1-5A	OO	24	x	24	--	--	--	--	--	--	--	--	--
185	R2-1 (2M)	40	30	x	36	7.500	--	--	1	1	1	--	--	--
186	R2-1 (2M)	40	30	x	36	7.500	--	--	1	1	1	--	--	--
187	J4-1 (2)	--	24	x	36	6.000	--	--	1	1	1	--	--	--
	M3-3	--	24	x	12	--	--	--	--	--	--	--	--	--
	M1-4	45	24	x	24	--	--	--	--	--	--	--	--	--

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
188	R1-1 (3)	--	36	x	36	7.460	--	--	1	1	1	--	--	--
189	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
190	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
191	R4-7 (3)	--	36	x	48	12.000	--	--	1	--	--	--	--	ON SIGNAL POLE
192	R6-2L (2M)	--	30	x	36	7.500	--	--	1	1	1	--	--	--
193	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
194	M1-94S MOD	<- 45 S NORTH CAPE RD 00 S NORTH CAPE RD ->	84	x	24	14.000	--	--	--	--	--	--	--	ON MAST ARM
195	M1-94S MOD	<- 36 45 LOOMIS RD 36 LOOMIS RD ->	84	x	24	14.000	--	--	--	--	--	--	--	ON MAST ARM
196	M1-94S MOD	<- OO S NORTH CAPE RD 45 S NORTH CAPE RD ->	84	x	24	14.000	--	--	--	--	--	--	--	ON MAST ARM
197	M1-94S MOD	<-36 LOOMIS RD 45 36 LOOMIS RD ->	84	x	24	14.000	--	--	--	--	--	--	--	ON MAST ARM
198	J3-4 (2)	--	96	x	57	38.000	--	--	1	2	2	--	--	--
	M3-3	--	24	x	12	--	--	--	--	--	--	--	--	--
	M1-6	STH 36	24	x	24	--	--	--	--	--	--	--	--	--
	M6-1	CTH 00	21	x	21	--	--	--	--	--	--	--	--	--
	M1-5A	--	24	x	24	--	--	--	--	--	--	--	--	--
	M6-1	--	21	x	21	--	--	--	--	--	--	--	--	--
	M3-1	--	24	x	21	--	--	--	--	--	--	--	--	--
	M1-6	STH 36	24	x	24	--	--	--	--	--	--	--	--	--
	M6-1	--	21	x	21	--	--	--	--	--	--	--	--	--
	M3-1	--	24	x	21	--	--	--	--	--	--	--	--	--
	M1-4	USH 45	24	x	24	--	--	--	--	--	--	--	--	--
	M6-1	--	21	x	21	--	--	--	--	--	--	--	--	--
199	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
200	R6-2L (2M)	--	30	x	36	7.500	--	--	1	1	1	--	--	--
201	R4-7 (3)	--	36	x	48	12.000	--	--	1	--	--	--	--	ON SIGNAL POLE
202	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
203	R1-1 (3)	--	36	x	36	7.460	--	--	1	1	1	--	--	--
204	R2-1 (2M)	40	30	x	36	7.500	--	--	1	1	1	--	--	--
205	J4-1 (2)	--	24	x	24	4.000	--	--	1	1	1	--	--	--
	M1-5A	OO	24	x	24	--	--	--	--	--	--	--	--	--
206	--	HELP FIGHT CRIME	--	x	--	--	--	--	--	--	--	1	205	--
207	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
208	J2-1 (2)	--	24	x	57	9.500	--	--	1	1	1	--	--	--
	M3-3	--	24	x	12	--	--	--	--	--	--	--	--	--
	M1-4	45	24	x	24	--	--	--	--	--	--	--	--	--
	M6-1	--	21	x	21	--	--	--	--	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
209	D1-2	^ WATERFORD <- UNION GROVE	108	x	42	31.500	--	--	1	2	2	--	--	--
210	W3-3 (3)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
211	J1-3 (3)	--	72	x	57	28.500	--	--	1	2	2	--	--	--
	M2-1	--	30	x	21	--	--	--	--	--	--	--	--	--
	M1-4	45	36	x	36	--	--	--	--	--	--	--	--	--
	M2-1	--	30	x	21	--	--	--	--	--	--	--	--	--
	M1-5A	OO	36	x	36	--	--	--	--	--	--	--	--	--
212	J1-3 (3)	--	72	x	57	28.500	--	--	1	2	2	--	--	--
	M2-1	--	30	x	21	--	--	--	--	--	--	--	--	--
	M1-4	45	36	x	36	--	--	--	--	--	--	--	--	--
	M2-1	--	30	x	21	--	--	--	--	--	--	--	--	--
	M1-5A	OO	36	x	36	--	--	--	--	--	--	--	--	--
213	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--
214	R2-1 (3)	55	36	x	48	12.000	--	--	1	--	--	--	208	--
215	W3-3 (3)	--	36	x	36	--	9.000	--	--	--	1	--	--	--
216	R2-1 (3)	45	36	x	48	12.000	--	--	1	1	1	--	--	--
217	R2-1 (3)	45	36	x	48	12.000	--	--	1	1	1	--	--	--
218	W3-5 (3)	45	36	x	36	--	9.000	--	1	1	1	--	--	--
219	W3-5 (3)	45	36	x	36	--	9.000	--	1	1	1	--	--	--
220	R6-2R (2M)	--	30	x	36	7.500	--	--	--	--	1	--	--	--
221	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
222	R6-2R (2M)	--	30	x	36	7.500	--	--	--	--	1	--	--	--
223	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
224	R6-2L (2M)	--	30	x	36	7.500	--	--	--	--	1	--	--	--
225	J1-1 (3)	--	36	x	57	14.250	--	--	1	1	1	--	--	--
	M2-1	--	30	x	21	--	--	--	--	--	--	--	--	--
	M1-5A	H	36	x	36	--	--	--	--	--	--	--	--	--
226	J1-1 (3)	--	36	x	57	14.250	--	--	1	1	1	--	--	--
	M2-1	--	30	x	21	--	--	--	--	--	--	--	--	--
	M1-5A	H	36	x	36	--	--	--	--	--	--	--	--	--
227	W3-3 (3)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
228	W3-3 (3)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
229	J2-1 (3)	--	36	x	84	21.000	--	--	1	1	2	--	--	--
	M3-2	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-5A	H	36	x	36	--	--	--	--	--	--	--	--	--
	M5-1L	--	30	x	30	--	--	--	--	--	--	--	--	--
230	J2-1 (3)	--	36	x	84	21.000	--	--	1	1	2	--	--	--
	M3-2	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-5A	H	36	x	36	--	--	--	--	--	--	--	--	--
	M5-1L	--	30	x	30	--	--	--	--	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
231	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--
232	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--
233	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
234	R6-2L (2M)	--	30	x	36	7.500	--	--	--	--	1	--	--	--
235	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
236	J4-2 (3)	--	72	x	54	27.000	--	--	1	2	2	--	--	--
	M3-3	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-4	45	36	x	36	--	--	--	--	--	--	--	--	--
	M3-3	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-6	36	36	x	36	--	--	--	--	--	--	--	--	--
237	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
238	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
239	J2-1 (3)	--	36	x	84	21.000	--	--	1	1	2	--	--	--
	M3-2	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-5A	H	36	x	36	--	--	--	--	--	--	--	--	--
	M6-1	--	30	x	30	--	--	--	--	--	--	--	--	--
240	J2-1 (3)	--	36	x	84	21.000	--	--	1	1	2	--	--	--
	M3-2	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-5A	H	36	x	36	--	--	--	--	--	--	--	--	--
	M6-1	--	30	x	30	--	--	--	--	--	--	--	--	--
241	D1-65 MOD	RYAN RD 9500 SOUTH NEXT SIGNAL	72	x	36	18.000	--	--	1	2	2	--	--	--
242	D1-65 MOD	RYAN RD 9500 SOUTH NEXT SIGNAL	72	x	36	18.000	--	--	1	2	2	--	--	--
243	R5-1A (3)	--	42	x	30	8.750	--	--	1	1	1	--	--	--
244	J3-1 (3)	--	36	x	84	21.000	--	--	1	1	2	--	--	--
	M3-2	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-5A	H	36	x	36	--	--	--	--	--	--	--	--	--
	M6-1	--	30	x	30	--	--	--	--	--	--	--	--	--
245	R12-1 (2M)	--	24	x	30	5.000	--	--	1	1	--	--	244	--
246	R12-1	--	--	x	--	--	--	--	1	1	--	--	--	--
	M6-1	--	--	x	--	--	--	--	--	--	--	--	--	--
247	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
248	J4-1 (3)	--	72	x	54	27.000	--	--	1	2	2	--	--	--
	M3-1	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-4	45	36	x	36	--	--	--	--	--	--	--	--	--
	M3-1	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-6	36	36	x	36	--	--	--	--	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
249	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--
250	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--
251	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
252	J1-2 (2)	--	48	x	39	13.000	--	--	1	1	1	--	--	--
	M2-1	--	21	x	15	--	--	--	--	--	--	--	--	--
	M1-4	45	24	x	24	--	--	--	--	--	--	--	--	--
	M2-1	--	21	x	15	--	--	--	--	--	--	--	--	--
	M1-6	36	24	x	24	--	--	--	--	--	--	--	--	--
253	W3-3 (2M)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
254	--	W RYAN RD	--	x	--	--	--	--	1	--	--	--	--	ON SIGNAL POLE
255	--	W LOOMIS RD	--	x	--	--	--	--	1	--	--	--	--	ON SIGNAL POLE
256	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
257	R4-7 (3)	--	36	x	48	12.000	--	--	1	--	--	--	--	ON SIGNAL POLE
258	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
259	R6-2L (2M)	--	30	x	36	7.500	--	--	1	--	--	--	--	ON SIGNAL POLE
260	R6-3 (2M)	--	30	x	24	5.000	--	--	1	--	--	--	--	ON SIGNAL POLE
261	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
262	M1-94S	--	90	x	18	11.250	--	--	--	--	--	--	--	ON MAST ARM
263	M1-94S MOD	--	72	x	24	12.000	--	--	--	--	--	--	--	ON MAST ARM
264	M1-94S MOD	--	72	x	24	12.000	--	--	--	--	--	--	--	ON MAST ARM
265	M1-94S	--	90	x	18	11.250	--	--	--	--	--	--	--	ON MAST ARM
266	R10-6 (2M)	--	24	x	30	5.000	--	--	1	--	--	--	--	ON SIGNAL POLE
267	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
268	R6-3 (2M)	--	30	x	24	5.000	--	--	1	1	1	--	--	--
269	R6-2L (2M)	--	30	x	36	7.500	--	--	1	--	--	--	268	--
270	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
271	R4-7 (3)	--	36	x	48	12.000	--	--	1	--	--	--	--	ON SIGNAL POLE
272	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
273	--	W RYAN RD	--	x	--	--	--	--	1	--	--	--	--	ON SIGNAL POLE
274	--	W LOOMIS RD	--	x	--	--	--	--	1	--	--	--	--	ON SIGNAL POLE
275	W12-1D (2M)	--	24	x	24	--	4.000	--	1	1	1	--	--	2' MOUNT HIEGHT
276	R1-2 (2S)	--	42	x	36	5.250	--	--	1	1	1	--	--	--
277	JV3-1 (2)	--	48	x	81	27.000	--	--	1	1	2	--	--	--
	--	M3-3	24	x	12	--	--	--	--	--	--	--	--	--
	--	M1-4	24	x	24	--	--	--	--	--	--	--	--	--
	--	M1-6	24	x	24	--	--	--	--	--	--	--	--	--
	--	M6-1	21	x	21	--	--	--	--	--	--	--	--	--
	--	M3-1	24	x	12	--	--	--	--	--	--	--	--	--
	--	M1-4	24	x	24	--	--	--	--	--	--	--	--	--
	--	M1-6	24	x	24	--	--	--	--	--	--	--	--	--
	--	M6-1	21	x	21	--	--	--	--	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
278	J4-2 (2)	--	48	x	39	13.000	--	--	1	1	1	--	--	--
	M2-1	--	21	x	15	--	--	--	--	--	--	--	--	--
	M1-4	45	24	x	24	--	--	--	--	--	--	--	--	--
	M2-1	--	21	x	15	--	--	--	--	--	--	--	--	--
	M1-6	36	24	x	24	--	--	--	--	--	--	--	--	--
279	J2-1 (3)	--	36	x	84	21.000	--	--	1	1	2	--	--	--
	M3-2	--	30	x	21	--	--	--	--	--	--	--	--	--
	M1-5A	H	36	x	36	--	--	--	--	--	--	--	--	--
	M5-1L	--	30	x	30	--	--	--	--	--	--	--	--	--
280	J2-1 (3)	--	36	x	84	21.000	--	--	1	1	2	--	--	--
	M3-2	--	30	x	18	--	--	--	--	--	--	--	--	--
	M1-5A	H	36	x	36	--	--	--	--	--	--	--	--	--
	M5-1L	--	30	x	30	--	--	--	--	--	--	--	--	--
281	W3-3 (3)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
282	W3-3 (3)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
283	J4-1 (3)	--	36	x	57	14.250	--	--	1	1	1	--	--	--
	M2-1	--	30	x	21	--	--	--	--	--	--	--	--	--
	M1-5A	H	36	x	36	--	--	--	--	--	--	--	--	--
284	J4-1 (3)	--	36	x	57	14.250	--	--	1	1	1	--	--	--
	M2-1	--	30	x	21	--	--	--	--	--	--	--	--	--
	M1-5A	H	36	x	36	--	--	--	--	--	--	--	--	--
285	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
286	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
287	W3-5 (3)	45	36	x	36	--	9.000	--	1	1	1	--	--	--
288	W3-5 (3)	45	36	x	36	--	9.000	--	1	1	1	--	--	--
289	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
290	R6-2L (2M)	--	30	x	36	7.500	--	--	--	--	1	--	--	ON SIGNAL POLE
291	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
292	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--
293	R2-1 (3)	55	36	x	48	12.000	--	--	1	1	1	--	--	--
294	R6-2R (2M)	--	30	x	36	7.500	--	--	--	--	1	--	--	--
295	R6-2L (2M)	--	30	x	36	7.500	--	--	--	--	1	--	--	--
296	R6-2L (2M)	--	30	x	36	7.500	--	--	--	--	1	--	--	--
297	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
298	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
299	R2-1 (3)	45	36	x	48	12.000	--	--	1	--	--	--	292	--
300	R2-1 (3)	45	36	x	48	12.000	--	--	1	1	1	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	**637.2210** SIGNS TYPE II REFLC H [SF]	**637.2230** SIGNS TYPE II REFLC F [SF]	**637.2215** SIGNS TYPE II REFLC H FOLDING [SF]	**638.2602** REM SIGNS TYPE II [EA]	**638.3000** REM SMALL SIGN SUP [EA]	**634.0618** WOOD POSTS 4"X 6"x18' [EA]	**638.2102** MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
301	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
302	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
303	D1-1	FALCON LANE ->	90	x	21	13.125	--	--	1	2	2	--	--	--
304	R6-2L (2M)	--	30	x	36	7.500	--	--	--	--	1	--	--	--
305	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
306	R6-2L (2M)	--	30	x	36	7.500	--	--	--	--	1	--	--	--
307	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
308	D1-1	<- FALCON LANE	90	x	21	13.125	--	--	1	2	2	--	--	--
309	R2-1 (3)	45	36	x	48	12.000	--	--	1	1	1	--	--	--
310	R2-1 (3)	45	36	x	48	12.000	--	--	1	1	1	--	--	--
311	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
312	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
313	R2-1 (3)	45	36	x	48	12.000	--	--	1	1	1	--	--	--
314	R2-1 (3)	45	36	x	48	12.000	--	--	1	--	--	--	309	--
315	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
316	R6-2L (2M)	--	30	x	36	7.500	--	--	--	--	1	--	--	--
317	R1-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
318	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
319	R2-1 (3)	45	36	x	48	12.000	--	--	1	1	1	--	--	--
320	R2-1 (3)	45	36	x	48	12.000	--	--	1	1	1	--	--	--
321	W3-3 (3)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
322	W3-3 (3)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
323	R5-1 (3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
324	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
325	R6-2L (2M)	--	30	x	36	7.500	--	--	--	--	1	--	--	--
326	R4-7 (3)	--	36	x	48	12.000	--	--	1	1	1	--	--	--
327	J2-3 (3)	--	108	x	84	63.000	--	--	1	2	2	--	--	--
	M3-1	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-4	USH 45	36	x	36	--	--	--	--	--	--	--	--	--
	M5-1L	--	30	x	30	--	--	--	--	--	--	--	--	--
	M3-1	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-6	STH 100	36	x	36	--	--	--	--	--	--	--	--	--
	M5-1L	--	30	x	30	--	--	--	--	--	--	--	--	--
	M3-3	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-6	STH 100	36	x	36	--	--	--	--	--	--	--	--	--
	M5-1R	--	30	x	30	--	--	--	--	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
328	J2-3 (3)	--	108	x	84	63.000	--	--	1	2	2	--	--	--
	M3-1	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-4	USH 45	36	x	36	--	--	--	--	--	--	--	--	--
	M5-1L	--	30	x	30	--	--	--	--	--	--	--	--	--
	M3-1	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-6	STH 100	36	x	36	--	--	--	--	--	--	--	--	--
	M5-1L	--	30	x	30	--	--	--	--	--	--	--	--	--
	M3-3	--	36	x	18	--	--	--	--	--	--	--	--	--
	M1-6	STH 100	36	x	36	--	--	--	--	--	--	--	--	--
	M5-1R	--	30	x	30	--	--	--	--	--	--	--	--	--
329	W4-2 (2M)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
330	W4-2 (2M)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
331	R1-1F (3)	--	36	x	36	--	--	7.460	1	--	--	--	--	ON SIGNAL POLE
332	W12-1D (2M)	--	24	x	24	--	4.000	--	1	1	1	--	--	2' MOUNT HEIGHT
333	M1-94S MOD	<- 36 LOOMIS RD 45 36 LOOMIS RD ->	84	x	24	14.000	--	--	--	--	--	--	--	ON MAST ARM
334	M1-94S MOD	<- 100 W ST MARTINS RD 45 100 W ST MARTINS RD ->	84	x	24	14.000	--	--	--	--	--	--	--	ON MAST ARM
335	M1-94S MOD	<- 45 100 W ST MARTINS RD 100 W ST MARTINS RD ->	84	x	24	14.000	--	--	--	--	--	--	--	ON MAST ARM
336	M1-94S MOD	<- 45 36 LOOMIS RD 36 LOOMIS RD ->	84	x	24	14.000	--	--	--	--	--	--	--	ON MAST ARM
337	W4-2 (2M)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
338	W3-3 (2M)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
339	W3-3 (2M)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
340	J4-1(3)	--	36	x	54	13.500	--	--	--	--	1	--	--	
	M3-1	--	36	x	18	--	--	--	--	--	--	--	--	SHEET 3
	M1-6	--	36	x	36	--		--	--	--	--	--	--	
341	D12-2B(2)	--	84	x	36	21.000		--	--	--	2	--	--	SHEET 4
342	D12-2B(2)	--	84	x	36	21.000		--	--	--	2	--	--	SHEET 27
343	D12-2B(2)	--	84	x	36	21.000		--	--	--	2	--	--	SHEET 28
344	W12-1D (2M)	--	24	x	24	4.000	--	--	--	--	1	--	--	2' MOUNTING HEIGHT SHEET 11
345	W12-1D (2M)	--	24	x	24	4.000	--	--	--	--	1	--	--	2' MOUNTING HEIGHT SHEET 12
346	J1-2	--	0	x	0	0.000	--	--	--	1	1	1	--	--
347	J1-2	--	0	x	0	0.000	--	--	--	1	1	1	--	--
348	J4-1	--	0	x	0	0.000	--	--	--	1	1	1	--	--
349	J3-4	--	0	x	0	0.000	--	--	--	2	2	1	--	--
350	J3-1	--	0	x	0	0.000	--	--	--	1.000	--	1	171	--
351	W12-1D (2M)	--	24	x	24	4.000	--	--	--	--	1	--	--	2' HEIGHT SHEET 26
352	W12-1D (2M)	--	24	x	24	4.000	--	--	--	--	1	--	--	2' HEIGHT SHEET 26
	TOTALS					3239.975	262.000	134.280	282	250	294	7		

SHEET: 13 OF 13

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RACINE	PERMANENT SIGNING QUANTITIES	SHEET:	E

CATEGORY 0020
LIGHTING UNIT QUANTITIES

659.1125 LUMINAIRES UTILITY LED C
SPV.0060.0101 REMOVING LUMINAIRES
SPV.0060.0102 LAMP DISPOSAL HIGH INTENSITY DISCHARGE

SYSTEM	STATION	OFFSET	659.1125 LUMINAIRES UTILITY LED C	SPV.0060.21 REMOVING LUMINAIRES	SPV.0060.22 LAMP DISPOSAL HIGH INTENSITY DISCHARGE	COMMENTS
			EACH	EACH	EACH	
INTERSECTION	658+40.49	124.08' LT	1	1	1	STH 36 AND W. LOOMIS ROAD
INTERSECTION	658+73.58	10.80' LT	2	2	2	"
INTERSECTION	659+38.07	83.12' LT	1	1	1	"
INTERSECTION	659+59.99	77.25' RT	1	1	1	"
INTERSECTION	660+12.07	183.02' RT	1	1	1	"
INTERSECTION	660+16.12	2.18' LT	2	2	2	"
INTERSECTION	775+62.14	19.50' LT	2	2	2	STH 36 AND MUSKEGO DAM ROAD
INTERSECTION	777+23.58	5.57' RT	2	2	2	"
INTERSECTION	777+57.18	111.77' LT	1	1	1	"
INTERSECTION	778+85.12	106.82' RT	1	1	1	"
INTERSECTION	779+27.66	15.07' LT	2	2	2	"
INTERSECTION	780+84.28	8.08' RT	2	2	2	"
INTERSECTION	980+97.82	28.98' LT	2	2	2	STH 36 AND CTH OO
INTERSECTION	929+80.96	44.15' RT	1	1	1	"
INTERSECTION	930+38.96	18.32' LT	2	2	2	"
INTERSECTION	930+53.62	142.87' LT	1	1	1	"
INTERSECTION	968+26.79	29.89' LT	2	2	2	STH 36 AND CTH H
INTERSECTION	969+49.17	112.98' LT	1	1	1	"
INTERSECTION	969+76.81	31.41' RT	1	1	1	"
INTERSECTION	970+26.01	45.00' RT	1	1	1	"
INTERSECTION	970+95.89	18.81' LT	2	2	2	"
INTERSECTION	971+47.72	32.18' RT	1	1	1	"
INTERSECTION	1048+85.23	9.22' LT	1	1	1	STH 36 AND STH 100
INTERSECTION	1050+36.78	12.49' LT	2	2	2	"
INTERSECTION	1051+10.77	81.80' RT	2	2	2	"
INTERSECTION	1051+18.18	220.90' RT	1	1	1	"
INTERSECTION	1051+31.43	74.25' LT	2	2	2	"
INTERSECTION	1051+34.76	253.88" LT	1	1	1	"
INTERSECTION	1052+05.77	12.78' RT	2	2	2	"
INTERSECTION	1053+89.16	13.26' RT	1	1	1	"
TOTAL (0020)			**44**	**44**	**44**	

SHEET 1 OF 1

3

3

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION*	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0800 LOOP DETECTOR WIRE L.F.
21	PB18	664+15.0, 20.9'LT	6'x20'	5	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	76	380
					**TOTALS	76	380

* LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

REMOVE LOOP DETECTOR WIRE

LOCATION	SPV.0105.09 REMOVE LOOP DETECTOR WIRE L.S.
STH 36 & CTH Y (LOOMIS RD)	1
TOTAL	1

** QUANTITY SHOWN ELSEWHERE ON PLAN

3

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
2	RADAR DETECTOR

STATE FURNISHED FOR INFORMATION ONLY

SIGNAL BASE NO.		RADAR DETECTOR EACH
LB1		1
LB4		1
	**TOTAL	2

TRANSPORT AND INSTALL STATE FURNISHED RADAR DETECTION SYSTEM

LOCATION		SPV.0105.05 TRANSPORT AND INSTALL STATE FURN RADAR DETECTION SYS L.S.
STH 36 & MUSKEGO DAM ROAD		1
	TOTAL	1

REMOVE LOOP DETECTOR WIRE

LOCATION		SPV.0105.08 REMOVE LOOP DETECTOR WIRE L.S.
STH 36 & MUSKEGO DAM RD		1
	TOTAL	1

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION*	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0800 LOOP DETECTOR WIRE L.F.
21	PB3	783+67.2, 42.3'LT	6'x20'	5	9F15-4B LOOP DETECTOR INSTALLEDIN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	470
24 (FUTURE)	PB2	782+05.6, 41.8'LT	6'x20'	5	9F15-4B LOOP DETECTOR INSTALLEDIN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	500
					**TOTALS	194	970

* LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

** QUANTITIES SHOWN ELSEWHERE ON PLAN

3

3

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
2	RADAR DETECTOR

STATE FURNISHED FOR INFORMATION ONLY

SIGNAL BASE NO.		RADAR DETECTOR EACH
SB2		1
SB7		1
	**TOTAL	2

TRANSPORT AND INSTALL STATE FURNISHED RADAR DETECTION SYSTEM

LOCATION	SPV.0105.04 TRANSPORT AND INSTALL STATE FURN RADAR DETECTION SYS L.S.
STH 36 & CTH OO/USH 45	1
TOTAL	1

REMOVE PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB11	1
TOTAL	1

REMOVE LOOP DETECTOR WIRE

LOCATION	SPV.0105.07 REMOVE LOOP DETECTOR WIRE L.S.
STH 36 & CTH OO/USH 45	1
TOTAL	1

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION*	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0800 LOOP DETECTOR WIRE L.F.
12	PB3	928+84.0, 18.8'LT	6'x20'	3	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	210
13	PB3	929+13.6, 18.7'LT	6'x20'	3	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	210
21	PB21	934+81.8, 45.7'LT	6'x20'	6	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	432
43	PB9	929+67.4, 70.6'LT	6'x20'	2	9F15-4B LOOP DETECTOR INSTALLEDIN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	160
53	PB17	930+31.1, 29.7'LT	6'x20'	4	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	288
64 (FUTURE)	PB6	926+59.0, 0.4'RT	6'x20'	5	9F15-4B LOOP DETECTOR INSTALLEDIN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	430
					**TOTALS	450	1730

* LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
* * FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

** QUANTITIES SHOWN ELSEWHERE ON PLAN

USH 45/STH 36 & CTH H (RYAN RD.)
MILWAUKEE COUNTY
CATEGORY 0030
S40-1238

3

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
4	EVP DETECTOR HEAD
2	RADAR DETECTOR

STATE FURNISHED FOR INFORMATION ONLY

SIGNAL BASE NO.	EVP DETECTOR HEADS EACH	RADAR DETECTOR EACH
SB4	1	
SB6	1	
SB10	1	
SB12	1	
SB3		1
SB9		1
**TOTALS	4	2

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB10 (HEAD A)	319
CB1	SB4 (HEAD B)	367
CB1	SB6 (HEAD C)	542
CB1	SB12 (HEAD D)	126
	**TOTAL	1354

** QUANTITIES SHOWN ELSEWHERE ON PLAN

EMERGENCY VEHICLE PREEMPTION (EVP) DETECTOR HEAD INSTALLATION

LOCATION	SPV.0105.02 EVP DETECTOR HEAD INSTALLATION L.S.
USH 45/STH 36 & CTH H (RYAN RD.)	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED RADAR DETECTION SYSTEM

LOCATION	SPV.0105.03 TRANSPORT AND INSTALL STATE FURN RADAR DETECTION SYS L.S.
USH 45/STH 36 & CTH H (RYAN RD.)	1
TOTAL	1

REMOVE LOOP DETECTOR WIRE

LOCATION	SPV.0105.06 REMOVE LOOP DETECTOR WIRE L.S.
USH 45/STH 36 & CTH H (RYAN RD.)	1
TOTAL	1

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION*	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0800 LOOP DETECTOR WIRE L.F.
21	PB4	974+10.8, 48.2'LT	6'x20'	5	9F15-4B LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	400
24 FUTURE	PB3	972+51.9, 48.3'LT	6'x20'	4	9F15-4B LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	384
64 FUTURE	PB12	967+33.6, 0.1'LT	6'x20'	5	9F15-4B LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	430
					**TOTALS	262	1214

* LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	MISCELLANEOUS QUANTITIES	SHEET:	E

3

3

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
4	EVP DETECTOR HEADS

STATE FURNISHED FOR INFORMATION ONLY

SIGNAL BASE NO.	EVP DETECTOR HEADS EACH
SB6	1
SB11	1
SB16	1
SB20	1
**TOTAL	4

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB16 (HEAD A)	291
CB1	SB6 (HEAD B)	293
CB1	SB11 (HEAD C)	487
CB1	SB20 (HEAD D)	107
	**TOTAL	1178

EMERGENCY VEHICLE PREEMPTION (EVP) DETECTOR HEAD INSTALLATION

LOCATION	SPV.0105.01 EVP DETECTOR HEAD INSTALLATION L.S.
STH 36 & STH 100 (S. LOVER'S LANE)	1
TOTAL	1

** QUANTITIES SHOWN ELSEWHERE ON PLAN

EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 304	E

BASE PATCHING CONCRETE
REMOVING ASPHALTIC SURFACE (INSIDE SHOULDER)
4" ASPHALTIC SURFACE (INSIDE SHOULDER)

BEGIN PROJECT
I.D. 2240-13-60
STA 663+50

PT MONUMENT
DO NOT DISTURB

CP101

PT: 667+40.97

35'

HMA

664 666 STH 36 668 670 672 674 676 678

STH 36 R

35'

HMA

B

SEVEN WATERS TRAIL

673+00
67' RT

675+75
67' RT

BEGIN ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND AND SOUTHBOUND
INSIDE AND OUTSIDE SHOULDER

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

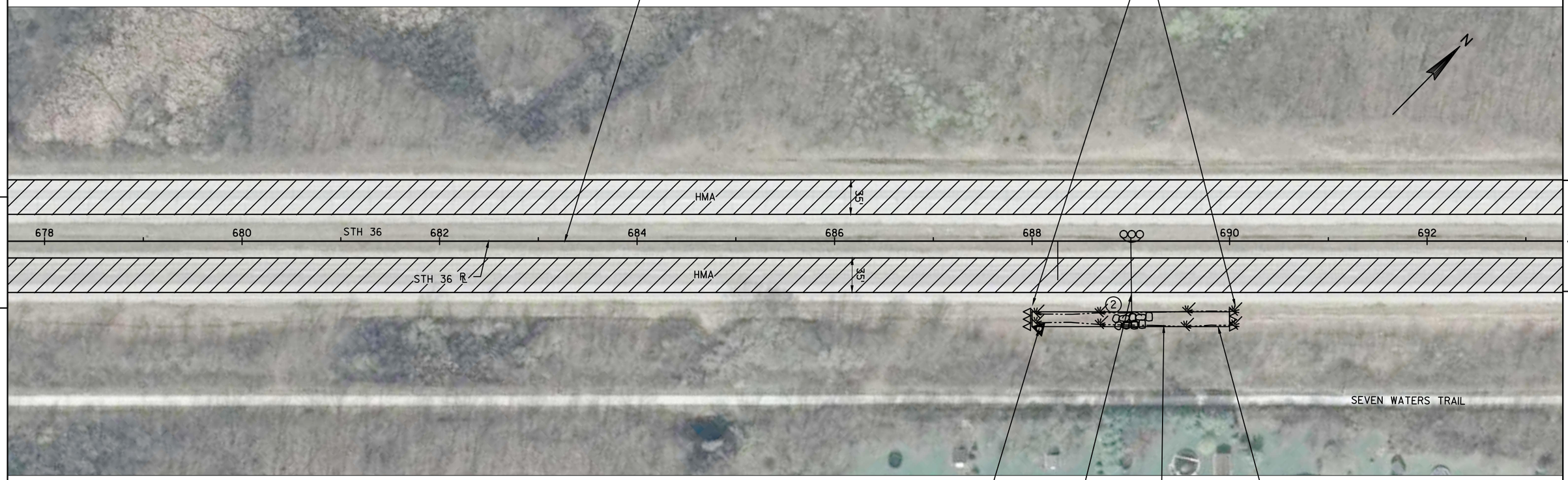
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 305	E

EROSION CONTROL LEGEND

- B — INLET PROTECTION TYPE B
- C — INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND AND SOUTHBOUND
INSIDE AND OUTSIDE SHOULDER

WETLAND CONTINUES,
UNIDENTIFIED END.
DISTURBANCE IS ALLOWED IN
DITCHING AND SHAPING LIMITS.



CP102
CLEANING CULVERT PIPES

WETLANDS

DITCHING AND SHAPING

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX — SAWCUT
- (#) — CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 306	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050001_PD.DWG
LAYOUT NAME – 050001_PD – (03)_PD

PLOT DATE : 1/5/2016 1:18 PM

PLOT BY : GUENETTE, JEFFREY J PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 42

EROSION CONTROL LEGEND

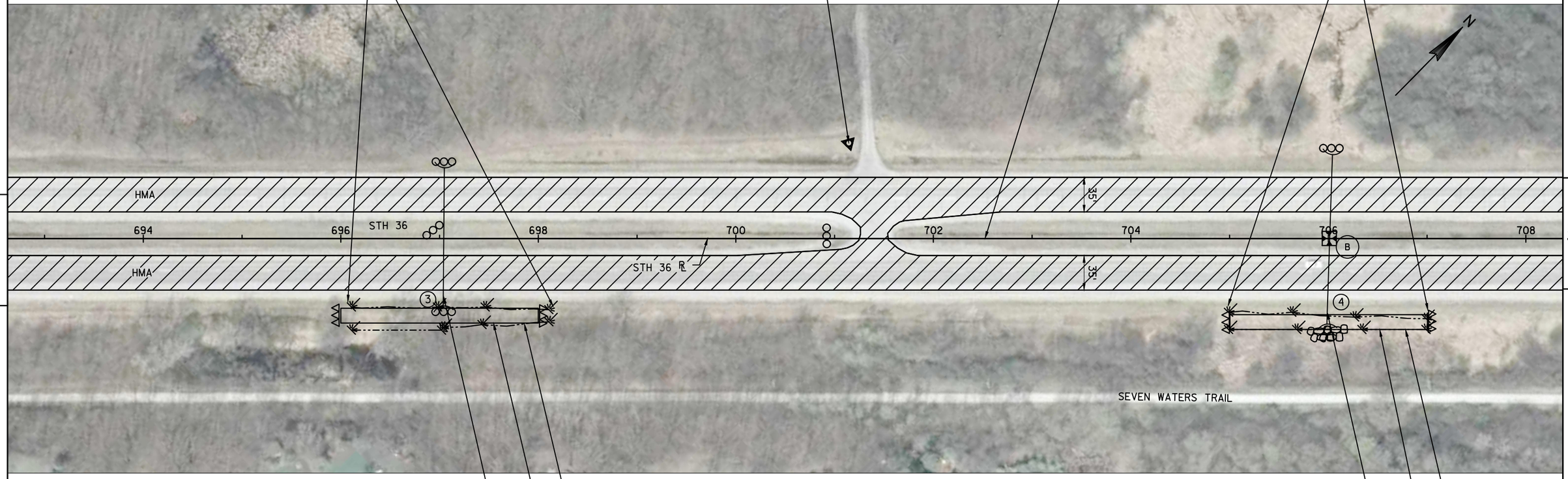
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

WETLAND CONTINUES, UNIDENTIFIED END. DISTURBANCE IS ALLOWED IN DITCHING AND SHAPING LIMITS.

CP103

ASPHALTIC SHOULDER RUMBLE STRIPS NORTHBOUND AND SOUTHBOUND INSIDE AND OUTSIDE SHOULDER

WETLAND CONTINUES, UNIDENTIFIED END. DISTURBANCE IS ALLOWED IN DITCHING AND SHAPING LIMITS.



WETLANDS

DITCHING AND SHAPING

CLEANING CULVERT PIPES

WETLANDS

DITCHING AND SHAPING

CLEANING CULVERT PIPES

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING 2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 307	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050001_PD.DWG
LAYOUT NAME – 050001_PD – (04)_PD

PLOT DATE : 1/5/2016 1:18 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 42

EROSION CONTROL LEGEND

- B — INLET PROTECTION TYPE B
- C — INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND AND SOUTHBOUND
INSIDE AND OUTSIDE SHOULDER

WETLAND CONTINUES.
UNIDENTIFIED END.
DISTURBANCE IS ALLOWED IN
DITCHING AND SHAPING LIMITS.

UNNAMED STREAM

CP105

WETLAND CONTINUES.
UNIDENTIFIED END.
DISTURBANCE IS ALLOWED IN
DITCHING AND SHAPING LIMITS.

720+90
76' LT

N

5

HMA

3.5"

708 710 STH 36 712 714 716 718 720 722

5

HMA

STH 36 ℄

3.5"

5

6

SEVEN WATERS TRAIL

CP104

DITCHING AND SHAPING

CLEANING CULVERT PIPES

WETLANDS

DITCHING AND SHAPING

CLEANING CULVERT PIPES

WETLANDS

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX — SAWCUT
- (#) — CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 308	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050001_PD.DWG
LAYOUT NAME – 050001_PD – (05)_PD

PLOT DATE : 1/5/2016 1:18 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 42

EROSION CONTROL LEGEND

- B — INLET PROTECTION TYPE B
- C — INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

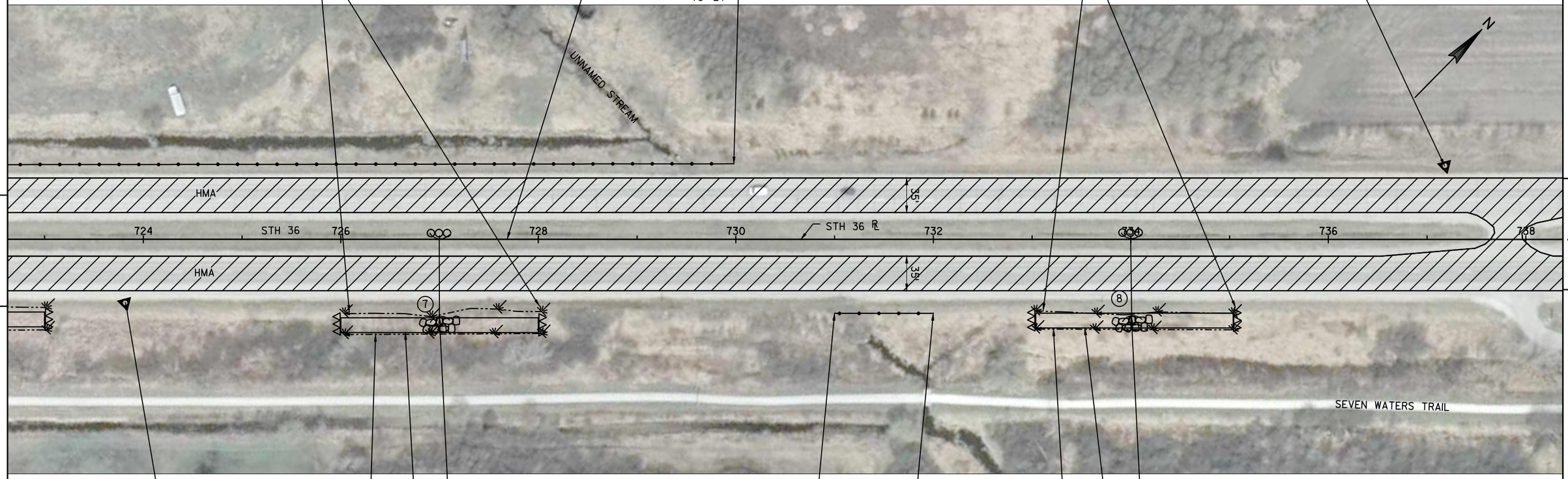
WETLAND CONTINUES, UNIDENTIFIED END. DISTURBANCE IS ALLOWED IN DITCHING AND SHAPING LIMITS.

ASPHALTIC SHOULDER RUMBLE STRIPS NORTHBOUND AND SOUTHBOUND INSIDE AND OUTSIDE SHOULDER

730+00 76' LT

WETLAND CONTINUES, UNIDENTIFIED END. DISTURBANCE IS ALLOWED IN DITCHING AND SHAPING LIMITS.

HMOD MUSKEGO S GPS



CP106

WETLANDS

CLEANING CULVERT PIPES

DITCHING AND SHAPING

731+00 75' RT

732+00 75' RT

WETLANDS

CLEANING CULVERT PIPES

DITCHING AND SHAPING

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING 2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX — SAWCUT
- (#) — CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 309	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050001_PD.DWG
LAYOUT NAME – 050001_PD – (06)_PD

PLOT DATE : 1/5/2016 1:18 PM

PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********

WISDOT/CADDS SHEET 42

EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

WETLAND CONTINUES, UNIDENTIFIED END. DISTURBANCE IS ALLOWED IN DITCHING AND SHAPING LIMITS.

PC MONUMENT DO NOT DISTURB

(B1) (B2) (B5) (B6) STA 743+20 TO STA 743+88 PAVED SHOULDER WIDENING

REMOVING GUARDRAIL STA 742+50 TO STA 743+88

REMOVING GUARDRAIL STA 743+28 TO STA 744+69

(B1) (B2) (B5) STA 742+93 TO STA 744+69

B-67-100 STA 744+60 TO STA 744+98 CONCRETE SURFACE REPAIR RIPRAP HEAVY SEE CONSTRUCTION DETAIL

REMOVING ASPHALTIC SURFACE AROUND BEAM GUARD

(B2) (B3) (B4) (B6) STA 744+85 TO STA 747+65 PAVED SHOULDER WIDENING

MUSKEGO CANAL

GRUBBING

REMOVING GUARDRAIL STA 745+64 TO STA 749+16

(B2) (B3) (B4) STA 745+64 TO STA 749+07

(B6) STA 745+64 TO STA 746+00

ASPHALTIC SHOULDER RUMBLE STRIPS NORTHBOUND AND SOUTHBOUND INSIDE AND OUTSIDE SHOULDER

PI MONUMENT DO NOT DISTURB

PI: 751+54.51

RC: 741+73.33

STH 36

SEVEN WATERS TRAIL

REMOVING GUARDRAIL STA 739+23 TO STA 742+93

WETLANDS

CLEANING CULVERT PIPES

DITCHING AND SHAPING

(B1) (B2) (B3) (B4) (B6) STA 739+09 TO STA 743+00 REMOVING ASPHALTIC SURFACE AROUND BEAM GUARD POSTS

(B2) (B3) (B4) (B6) STA 741+53 TO STA 743+71 PAVED SHOULDER WIDENING

B-67-241 STA 743+55 TO STA 743+94 CONCRETE SURFACE REPAIR RIPRAP HEAVY SEE CONSTRUCTION DETAIL

(B1) (B2) (B5) STA 743+81 TO STA 744+98

REMOVING GUARDRAIL STA 744+62 TO STA 746+11 PAVED SHOULDER WIDENING

(B2) (B5) (B6) STA 744+62 TO STA 746+28

WETLANDS

DITCHING AND SHAPING

CLEANING CULVERT PIPES

WETLAND CONTINUES, UNIDENTIFIED END. DISTURBANCE IS ALLOWED IN DITCHING AND SHAPING LIMITS.

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING 2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

BEAM GUARD LEGEND

- (B1) BARRIER SYSTEM GRADING SHAPING FINISHING
- (B2) MGS GUARDRAIL 3
- (B3) MGS THRIE BEAM TRANSITION
- (B4) MGS GUARDRAIL TERMINAL EAT
- (B5) MGS GUARDRAIL TERMINAL TYPE 2
- (B6) GUARDRAIL MOW STRIP ASPHALT

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 310	E

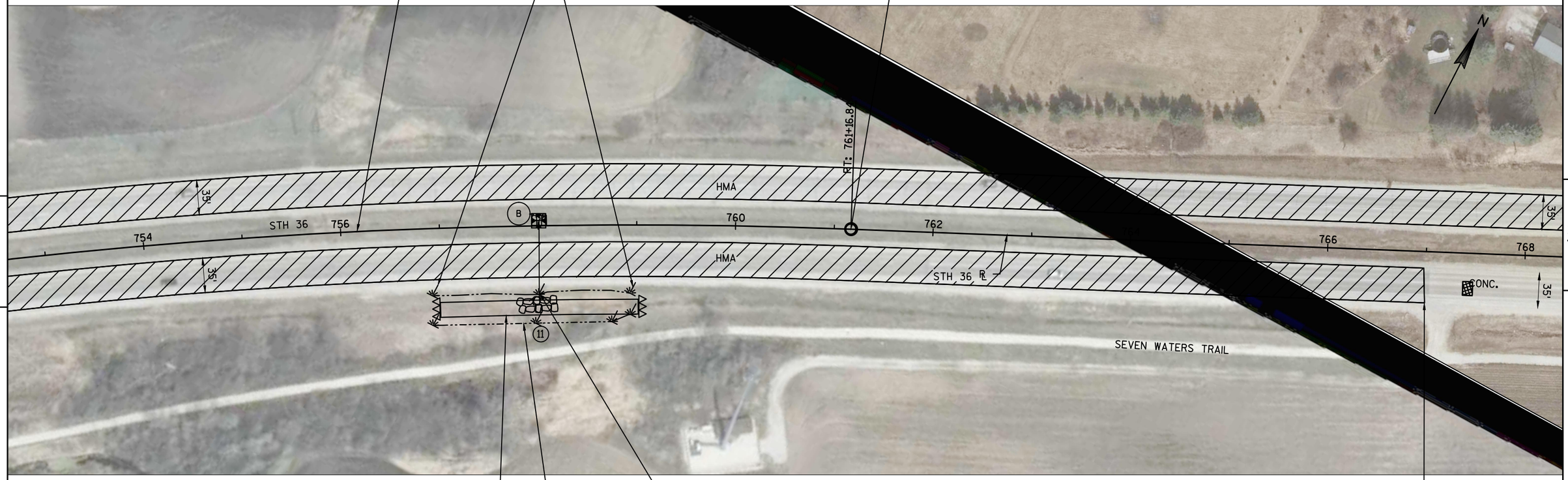
EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND AND SOUTHBOUND
INSIDE AND OUTSIDE SHOULDER

WETLAND CONTINUES,
UNIDENTIFIED END.
DISTURBANCE IS ALLOWED IN
DITCHING AND SHAPING LIMITS.

PT MONUMENT
DO NOT DISTURB



DITCHING AND SHAPING

WETLANDS

CLEANING CULVERT PIPES

STA 767+00
END ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND INSIDE AND OUTSIDE SHOULDERS

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

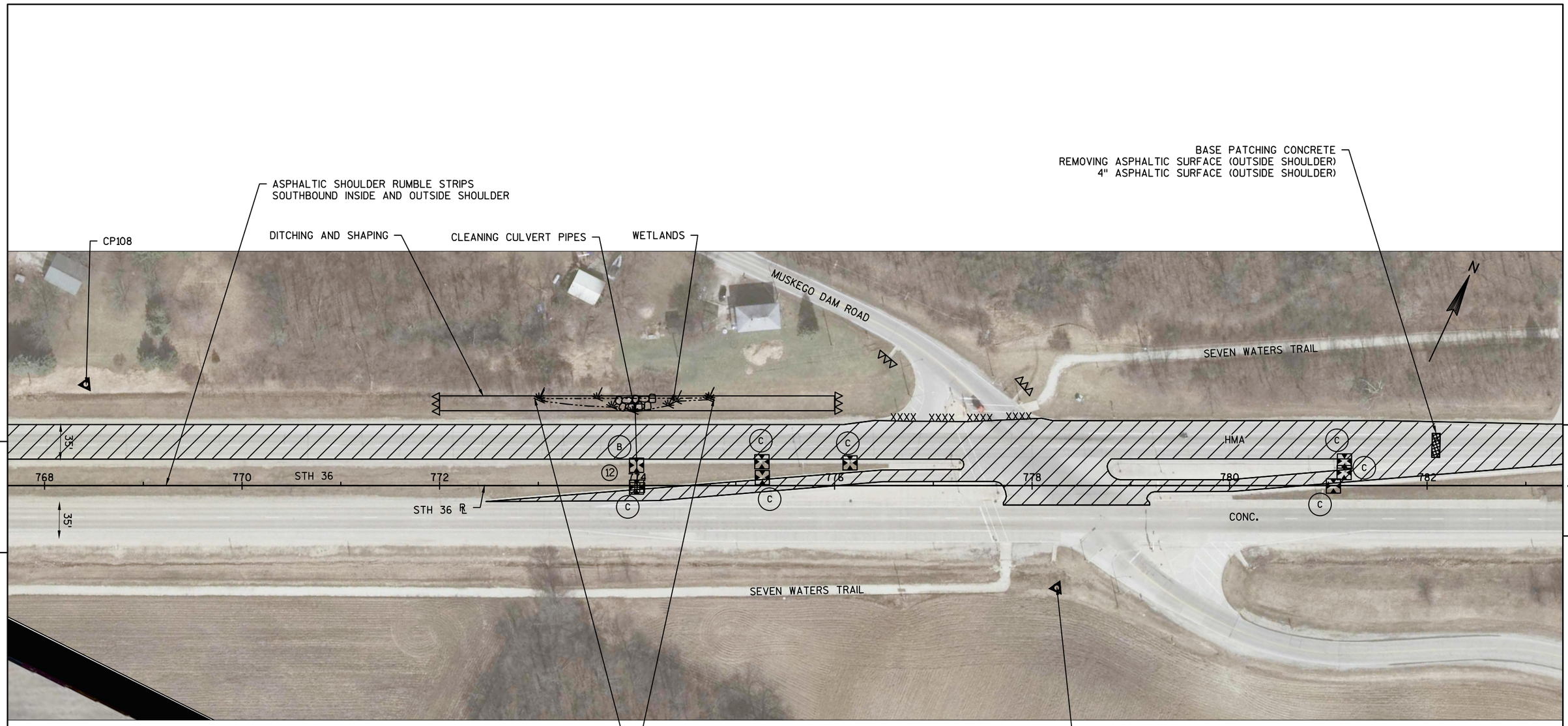
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 311	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050001_PD.DWG
LAYOUT NAME – 050001_PD – (08)_PD

PLOT DATE : 1/5/2016 1:18 PM

PLOT BY : GUENETTE, JEFFREY J PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 42



5

5

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING 2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 312	E

EROSION CONTROL LEGEND

- B — INLET PROTECTION TYPE B
- C — INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

BASE PATCHING CONCRETE
REMOVING ASPHALTIC SURFACE (OUTSIDE SHOULDER)
4" ASPHALTIC SURFACE (OUTSIDE SHOULDER)

WETLAND CONTINUES,
UNIDENTIFIED END.
DISTURBANCE IS ALLOWED IN
DITCHING AND SHAPING LIMITS.

STA 787+40
END ASPHALTIC SHOULDER RUMBLE STRIPS
SOUTHBOUND INSIDE AND OUTSIDE SHOULDER

CP110

WETLANDS

CLEANING CULVERT PIPES

DITCHING AND SHAPING

SEVEN WATERS TRAIL

HMA

CONC.

784 786 788 790 792 794 796 798

STH 36

STH 36 ℄

32'

32'

CONC.

CONC.

CTH G

WETLANDS

DITCHING AND SHAPING

CLEANING CULVERT PIPES

PI MONUMENT
DO NOT DISTURB

WETLAND CONTINUES,
UNIDENTIFIED END.
DISTURBANCE IS ALLOWED IN
DITCHING AND SHAPING LIMITS.

HMOD 1X15
DO NOT DISTURB

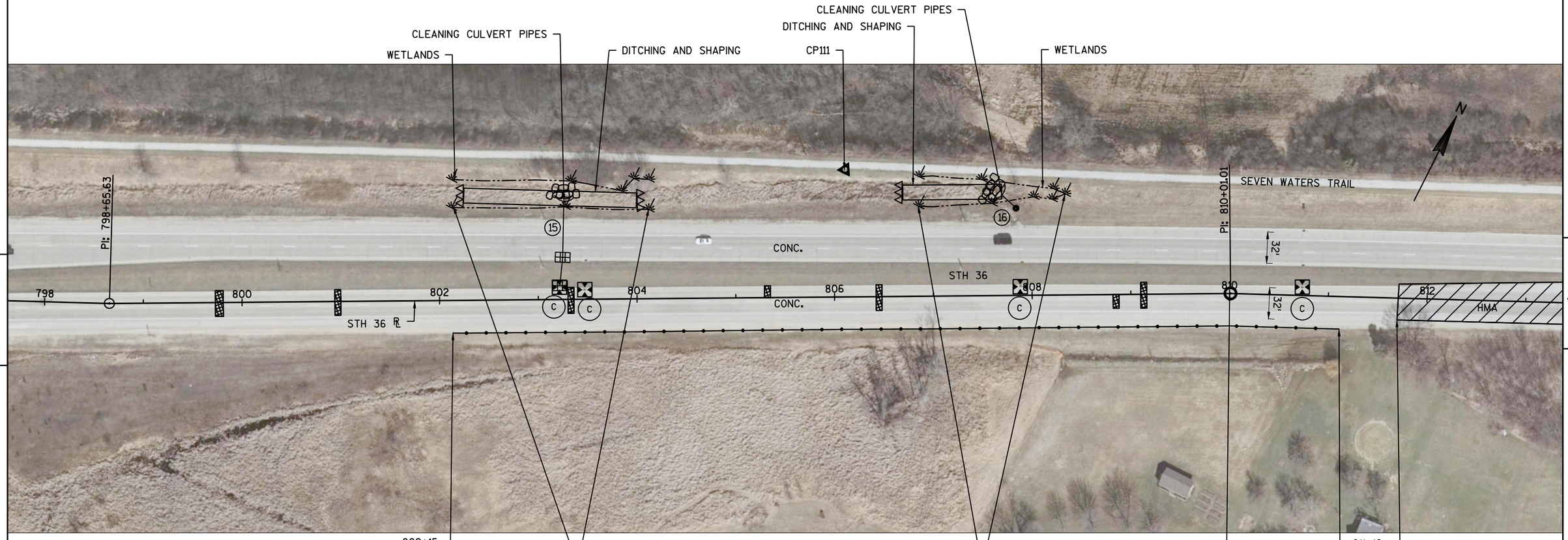
LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX — SAWCUT
- (#) — CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 313	E

EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE



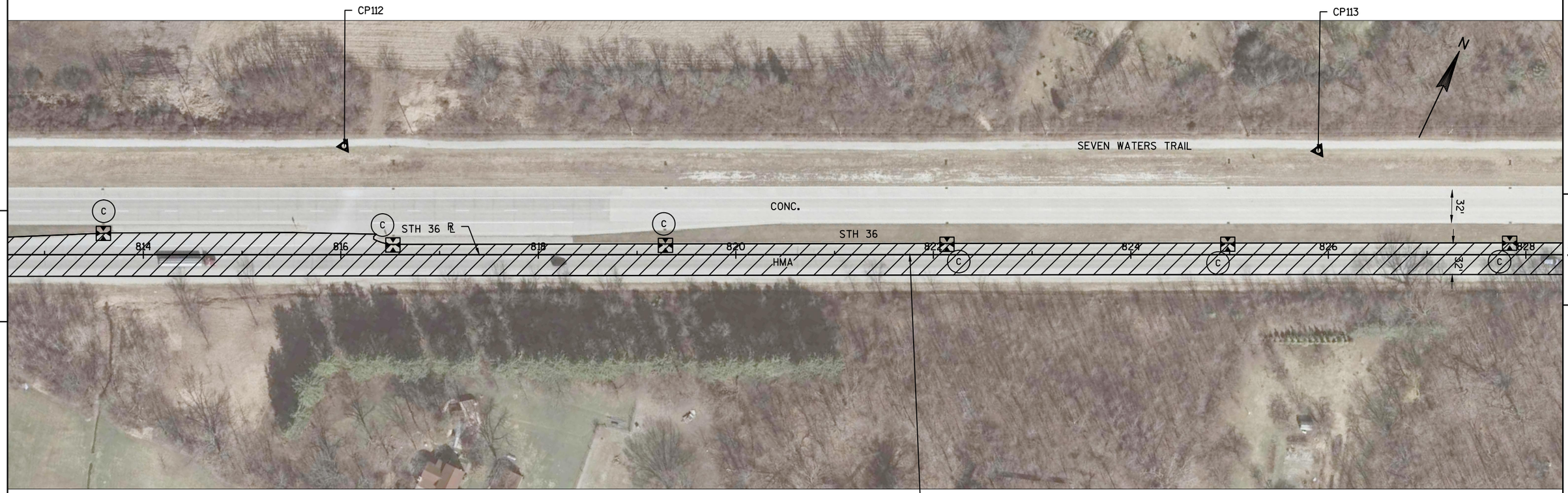
LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 314	E

EROSION CONTROL LEGEND

- B — INLET PROTECTION TYPE B
- C — INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

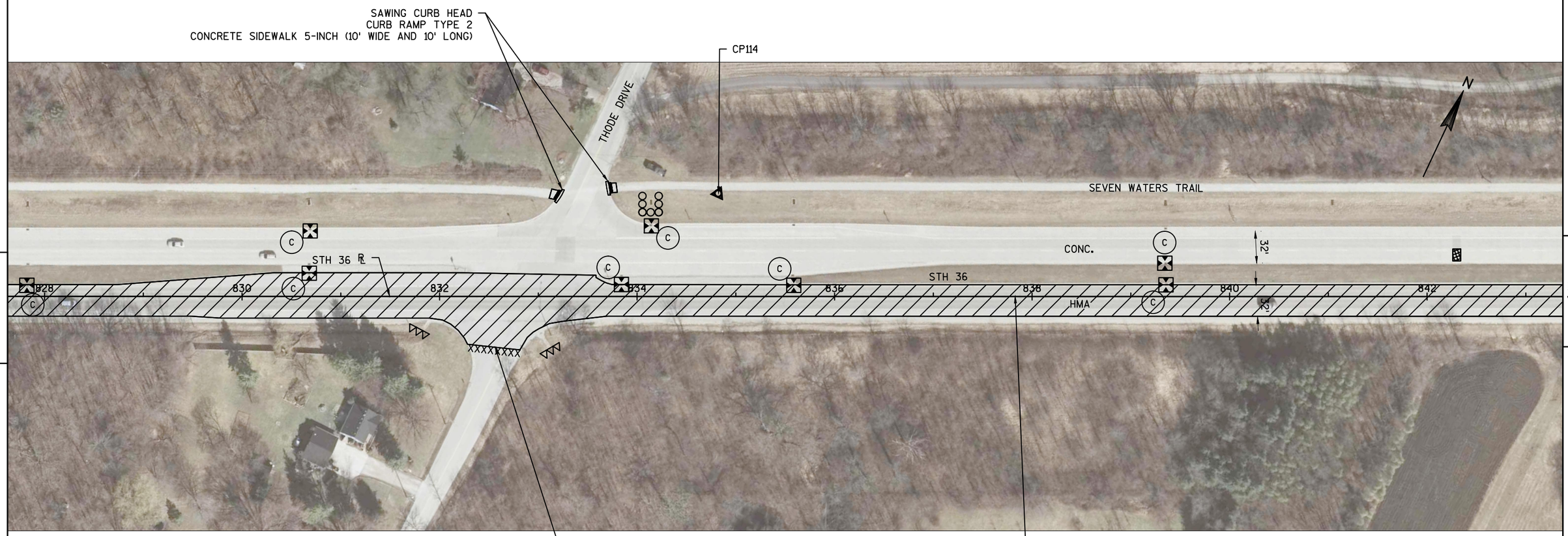


ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND OUTSIDE SHOULDER

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX — SAWCUT
- (#) — CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 315	E



5

5

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

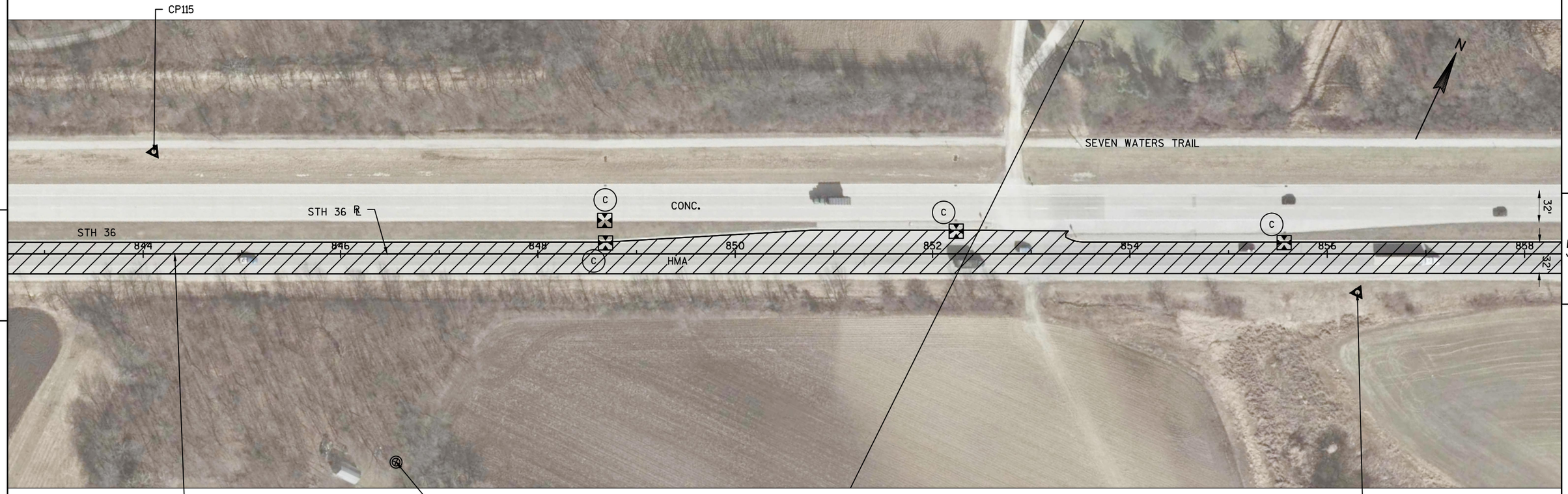
EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 316	E

EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE



ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND OUTSIDE SHOULDER

SECTION CORNER MONUMENT
DO NOT DISTURB

HMOD 1X16
DO NOT DISTURB

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

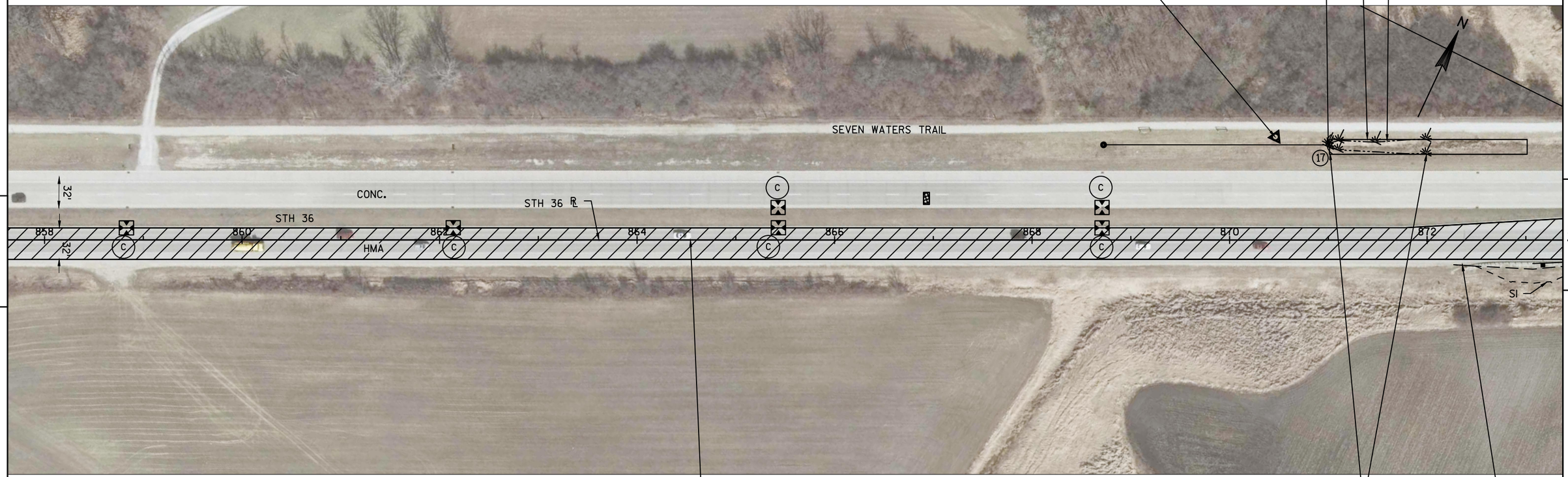
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 317	E

EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

BEAM GUARD LEGEND

- (B1) BARRIER SYSTEM GRADING SHAPING FINISHING
- (B2) MGS GUARDRAIL 3
- (B3) MGS THRIE BEAM TRANSITION
- (B4) MGS GUARDRAIL TERMINAL EAT
- (B5) MGS GUARDRAIL TERMINAL TYPE 2
- (B6) GUARDRAIL MOW STRIP ASPHALT



LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 318	E

REMOVING GUARDRAIL
STA 873+95 TO STA 875+96

STA 873+53 TO STA 875+95
B2 B4 B5

STA 874+10 TO STA 874+70
B7

STA 874+10 TO STA 874+60
REMOVING ASPHALTIC SURFACE

B6 STA 874+00 TO STA 874+75

WETLANDS

DITCHING AND SHAPING

CLEANING CULVERT PIPES

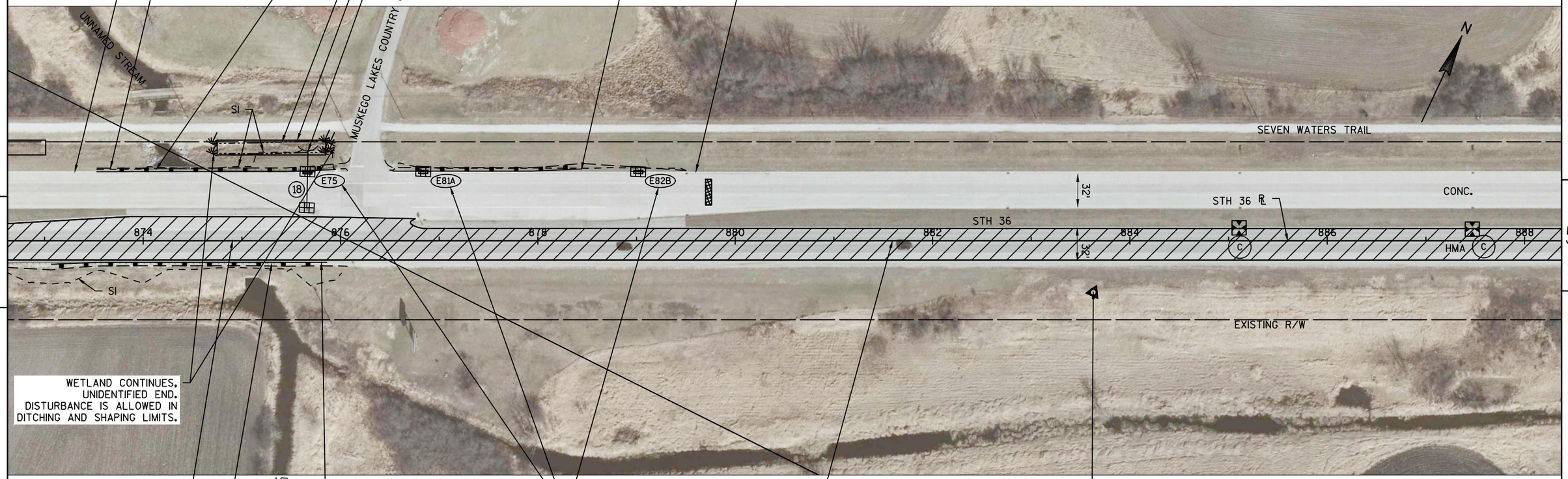
B1 B2 B4 B5
STA 876+53 TO STA 878+44

SAWING CURBHEAD
STA 873+13
TO STA 873+84

SAWING CURBHEAD
STA 875+83
TO STA 879+44

EROSION CONTROL LEGEND

- B — INLET PROTECTION TYPE B
- C — INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE



WETLAND CONTINUES,
UNIDENTIFIED END.
DISTURBANCE IS ALLOWED IN
DITCHING AND SHAPING LIMITS.

C-67-15
STA 874+85
CONCRETE SURFACE REPAIR
WING WALL STRAPPING
SEE CONSTRUCTION DETAIL

BASE AGGREGATE DENSE 3/4-INCH
UNDER BEAM GUARD
SEE CONSTRUCTION DETAIL

UNNAMED TRIBUTARY
TO BIG MUSKEGO LAKE

REMOVING GUARDRAIL
STA 872+39 TO STA 875+41
B1 B2 B4 B5
STA 873+07 TO STA 875+86

REMOVING CURB AND GUTTER
CONCRETE CURB AND GUTTER
6-INCH SLOPED 36-INCH TYPE A
(DRIVEWAY CURB)

ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND OUTSIDE SHOULDER

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX — SAWCUT
- (#) — CULVERT
- WETLANDS

BEAM GUARD LEGEND

- B1 — BARRIER SYSTEM GRADING SHAPING FINISHING
- B2 — MGS GUARDRAIL 3
- B3 — MGS THRIE BEAM TRANSITION
- B4 — MGS GUARDRAIL TERMINAL EAT
- B5 — MGS GUARDRAIL TERMINAL TYPE 2
- B6 — GUARDRAIL MOW STRIP ASPHALT
- B7 — MGS GUARDRAIL 3K

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 319	E

EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

SAWING CURB HEAD
CURB RAMP TYPE 2
CONCRETE SIDEWALK 5-INCH (10' WIDE)

SAWING CURB HEAD
CURB RAMP TYPE 2
CONCRETE SIDEWALK 5-INCH (10' WIDE BY 10' LONG)

SEE TEMPORARY CROSSOVER REMOVAL PLAN SHEETS

CP118

STA 900+92

CHAMPIONS DRIVE

SEVEN WATERS TRAIL

CONC.

32'

STH 36 ℄

STH 36

888 890 892 894 896 898 900 902

HMA

EXISTING R/W

UNNAMED TRIBUTARY TO BIG MUSKEGO LAKE

OLD LOOMIS DRIVE

N

ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND OUTSIDE SHOULDER

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 320	E

EROSION CONTROL LEGEND

- B — INLET PROTECTION TYPE B
- C — INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

SAWING CURB HEAD
CURB RAMP TYPE 2
CONCRETE SIDEWALK 5-INCH (10' WIDE)

SAWING CURB HEAD
CURB RAMP TYPE 2
CONCRETE SIDEWALK 5-INCH (10' WIDE BY 10' LONG)

EXISTING R/W

SI

SEE RECONSTRUCTION DETAIL SHEETS

CP120

CP121

CHAMPIONS DRIVE

SEVEN WATERS TRAIL

XXX XXXX XXXX

HMA

STH 36

STH 36 ℄

904 906 908 910 912 914 916 918

HMA

18A

XXXX

OLD LOOMIS DRIVE

STA 904+00
END RESURFACING
BEGIN RECONSTRUCTION

CLEANING CULVERT PIPES
DITCHING AND SHAPING

SECTION CORNER MONUMENT
SEE GENERAL NOTES
FOR CONTACT INFORMATION
PRIOR TO BEGINNING CONSTRUCTION
NEAR MONUMENT

HMOD MUSKEGO E GPS
DO NOT DISTURB

ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND OUTSIDE SHOULDER

SI
EXISTING R/W

STA 917+50
END RECONSTRUCTION
BEGIN CONCRETE PAVEMENT REPAIR/ REPLACEMENT
END ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND OUTSIDE SHOULDER

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX — SAWCUT
- # — CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 321	E

EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

WETLAND CONTINUES. UNIDENTIFIED END. DISTURBANCE IS ALLOWED IN DITCHING AND SHAPING LIMITS.

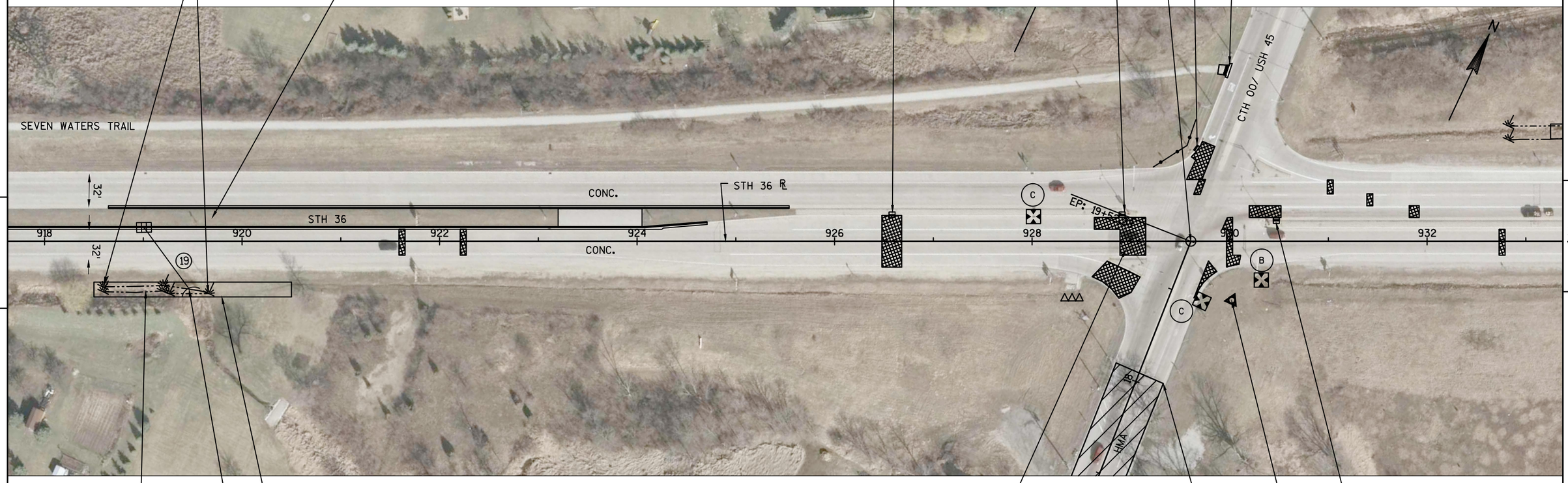
SEE TEMPORARY CROSSOVER REMOVAL PLAN SHEETS

STH 36, STA 929+61.35 = CTH 00/ USH 45, STA 109+09.13

REMOVING CURB AND GUTTER
CONCRETE CURB AND GUTTER
6-INCH SLOPED 36-INCH TYPE A

REMOVING CURB AND GUTTER
REMOVING ASPHALTIC SURFACE
ASPHALTIC SURFACE SAFETY ISLAND
CONCRETE CURB AND GUTTER
6-INCH SLOPED 36-INCH TYPE A

SAWING CURB HEAD
CURB RAMP TYPE 2
CONCRETE SIDEWALK 5-INCH (10' WIDE AND 10' LONG)



WETLANDS

DITCHING AND SHAPING

CLEANING CULVERT PIPES

CAUTION — MAIN POWER SUPPLY FOR TRAFFIC SIGNALS RUNS BENEATH CONCRETE REPAIR AREAS

STA 18+10

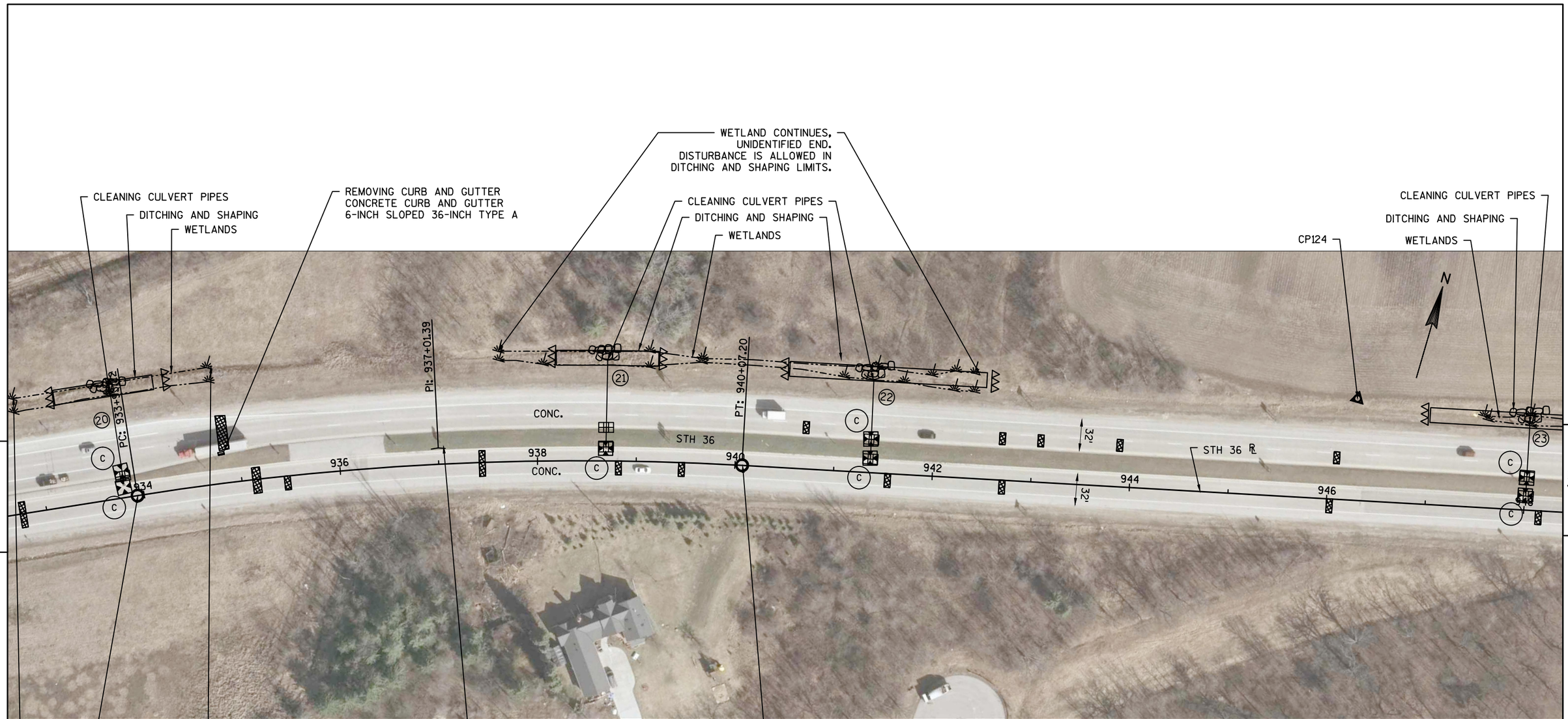
CP123

REMOVING CURB AND GUTTER
REMOVING ASPHALTIC SURFACE
ASPHALTIC SURFACE SAFETY ISLAND
CONCRETE CURB AND GUTTER
6-INCH SLOPED 36-INCH TYPE A

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING / 2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 322	E



EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 323	E

EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 324	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050003_PD.DWG
LAYOUT NAME – 050003_PD – (21)_PD

PLOT DATE : 1/5/2016 2:13 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********

WISDOT/CADDS SHEET 42

EROSION CONTROL LEGEND

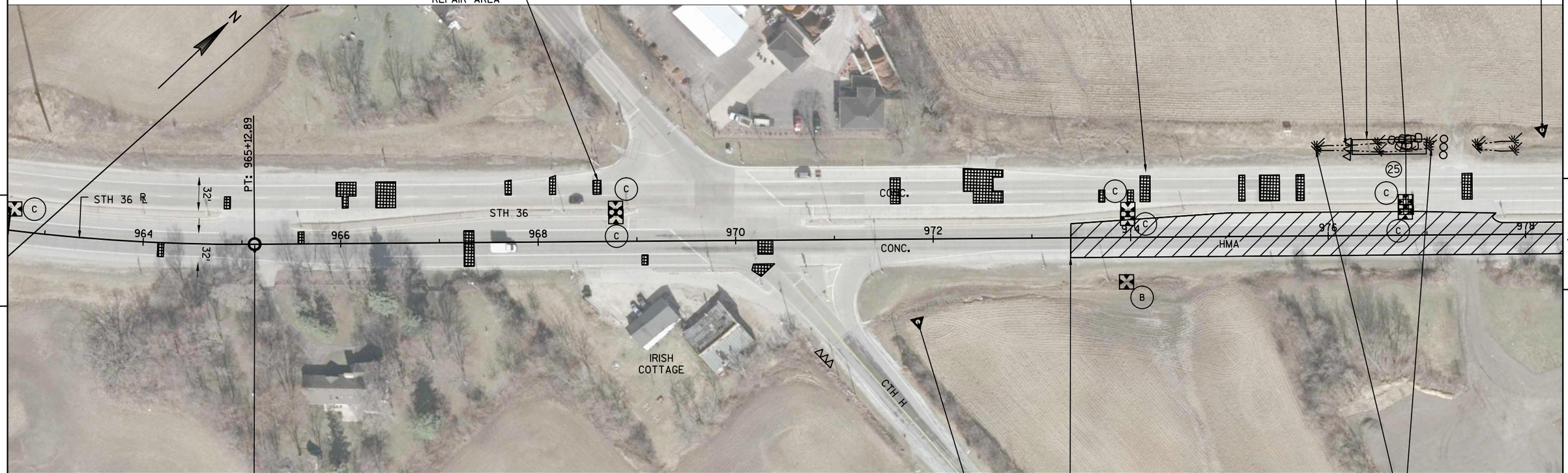
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

CAUTION — MAIN POWER SUPPLY FOR TRAFFIC SIGNALS RUNS BENEATH CONCRETE REPAIR AREA

REMOVING ASPHALTIC SURFACE
4" ASPHALTIC SURFACE

CLEANING CULVERT PIPES
DITCHING AND SHAPING
WETLANDS

CP128



PT MONUMENT
DO NOT DISTURB

CP127

WETLAND CONTINUES,
UNIDENTIFIED END.
DISTURBANCE IS ALLOWED IN
DITCHING AND SHAPING LIMITS.

STA 973+40
BEGIN ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND OUTSIDE SHOULDER

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING 2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

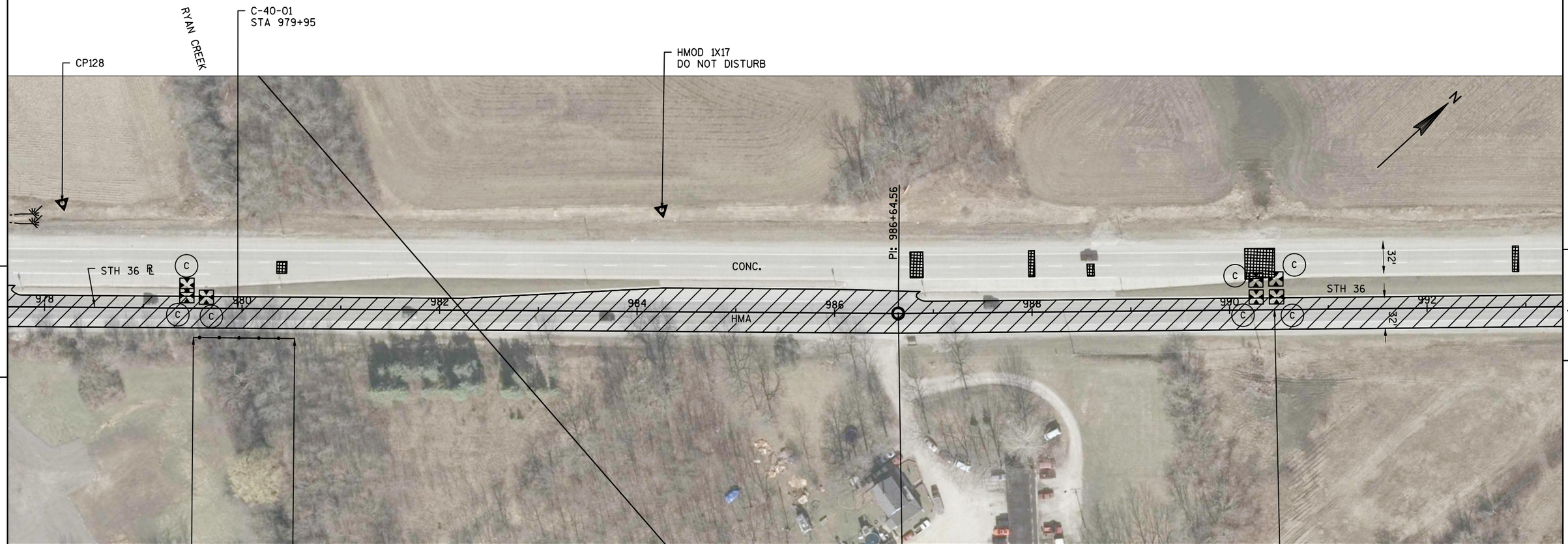
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 325	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050003_PD.DWG
LAYOUT NAME – 050003_PD – (22)_PD

PLOT DATE : 1/5/2016 2:13 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : ********** WISDOT/CADDS SHEET 42

EROSION CONTROL LEGEND

- B — INLET PROTECTION TYPE B
- C — INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE



PI MONUMENT
DO NOT DISTURB
MONUMENT TO BE MILLED AROUND
AND PAVING RING PLACED PRIOR TO PAVING.
RINGS TO BE PROVIDED BY THE DEPARTMENT

ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND OUTSIDE SHOULDER

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX — SAWCUT
- (#) — CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 326	E

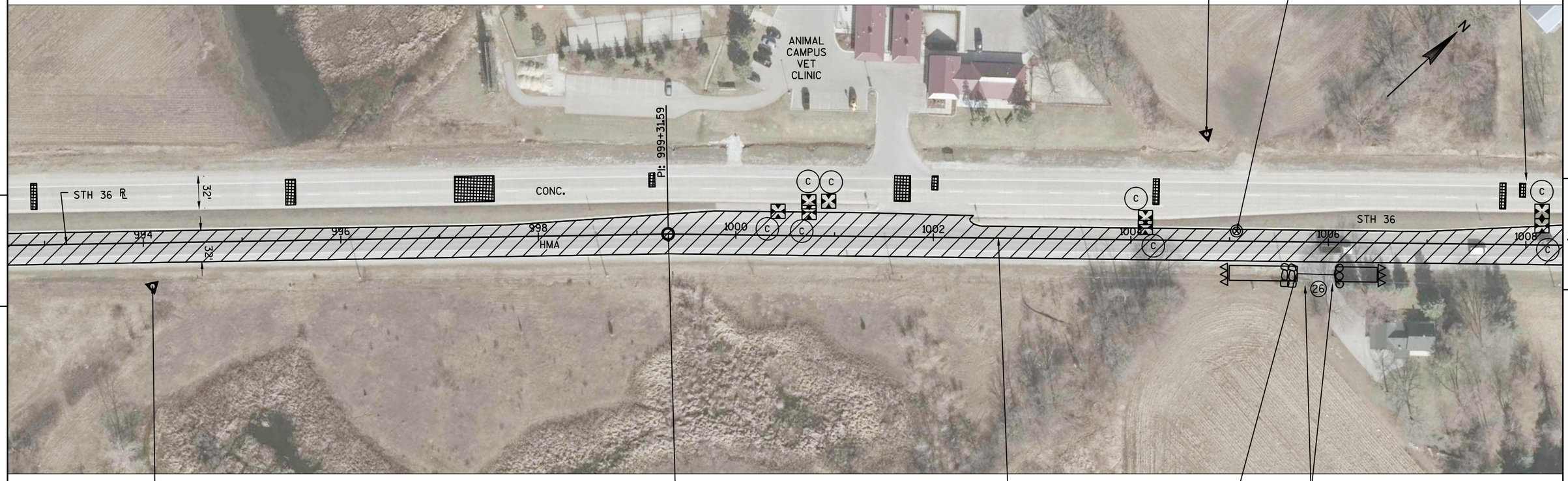
EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

STA 1006+00 TO STA 1009+00
3" BASE AGGREGATE DENSE 3/4-INCH
(5' WIDE)

SECTION CORNER MONUMENT
SEE GENERAL NOTES
FOR CONTACT INFORMATION
PRIOR TO BEGINNING CONSTRUCTION
NEAR MONUMENT

CP130



CP129

PI MONUMENT
DO NOT DISTURB
MONUMENT TO BE MILLED AROUND
AND PAVING RING PLACED PRIOR TO PAVING.
RINGS TO BE PROVIDED BY THE DEPARTMENT

ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND OUTSIDE SHOULDER

CLEANING CULVERT PIPES

DITCHING AND SHAPING

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 327	E

BEAM GUARD LEGEND

- B1 BARRIER SYSTEM GRADING SHAPING FINISHING
- B2 MGS GUARDRAIL 3
- B3 MGS THRIE BEAM TRANSITION
- B4 MGS GUARDRAIL TERMINAL EAT
- B5 MGS GUARDRAIL TERMINAL TYPE 2
- B6 GUARDRAIL MOW STRIP ASPHALT

EROSION CONTROL LEGEND

- B INLET PROTECTION TYPE B
- C INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

REMOVING ASPHALTIC SURFACE
STH 1020+20 TO STA 1021+05

REMOVING GUARDRAIL
STA 1020+21 TO STA 1022+85
B1 B2 B4 B5
STA 1019+85 TO STA 1022+91

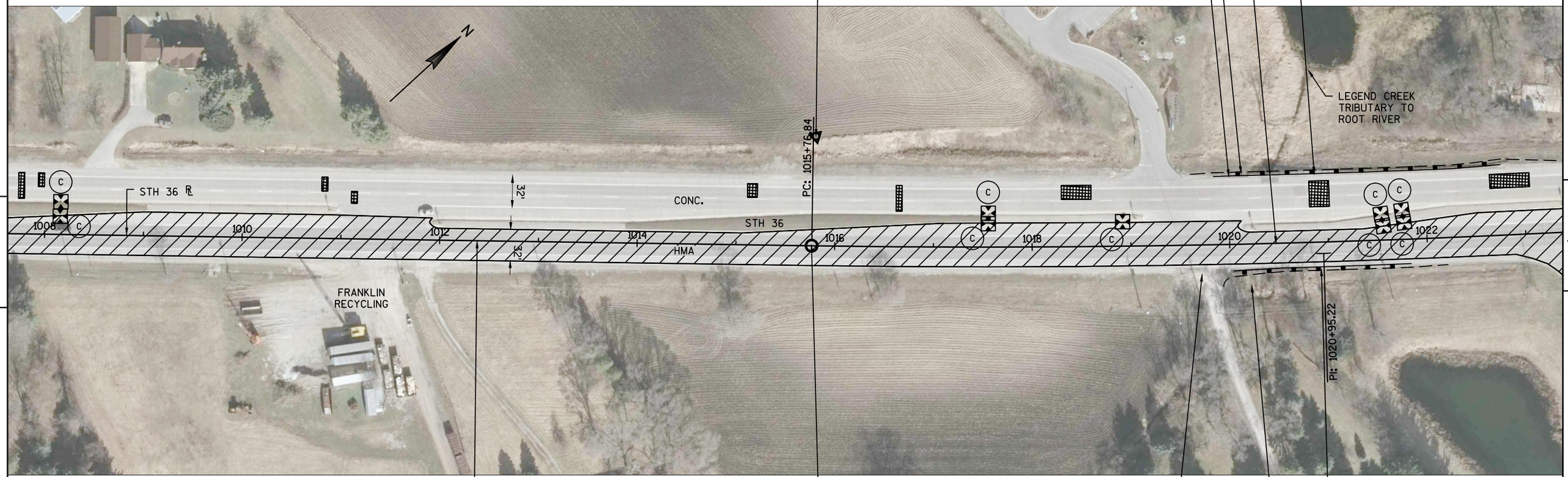
C-40-02
STA 1020+42
CONCRETE SURFACE REPAIR
JOINT REPAIR
SAFETY GRATE FOR BOX CULVERT
SEE CONSTRUCTION DETAIL

STA 1020+25 TO STA 1020+60 B6

SPACE BEAM GUARD TO MISS CULVERT

CP131

LEGEND CREEK
TRIBUTARY TO
ROOT RIVER



ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND OUTSIDE SHOULDER

PC MONUMENT
DO NOT DISTURB
MONUMENT TO BE MILLED AROUND
AND PAVING RING PLACED PRIOR TO PAVING.
RINGS TO BE PROVIDED BY THE DEPARTMENT

BASE AGGREGATE DENSE 3/4-INCH
FILL IN LOW DRIVEWAY
5" FOR 20'

GRUBBING

REMOVING GUARDRAIL
STA 1020+02 TO STA 1020+75
B1 B2 B4 B5
STA 1020+04 TO STA 1021+83
SPACE BEAM GUARD TO MISS CULVERT

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 328	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050003_PD.DWG
LAYOUT NAME – 050003_PD – (25)_PD

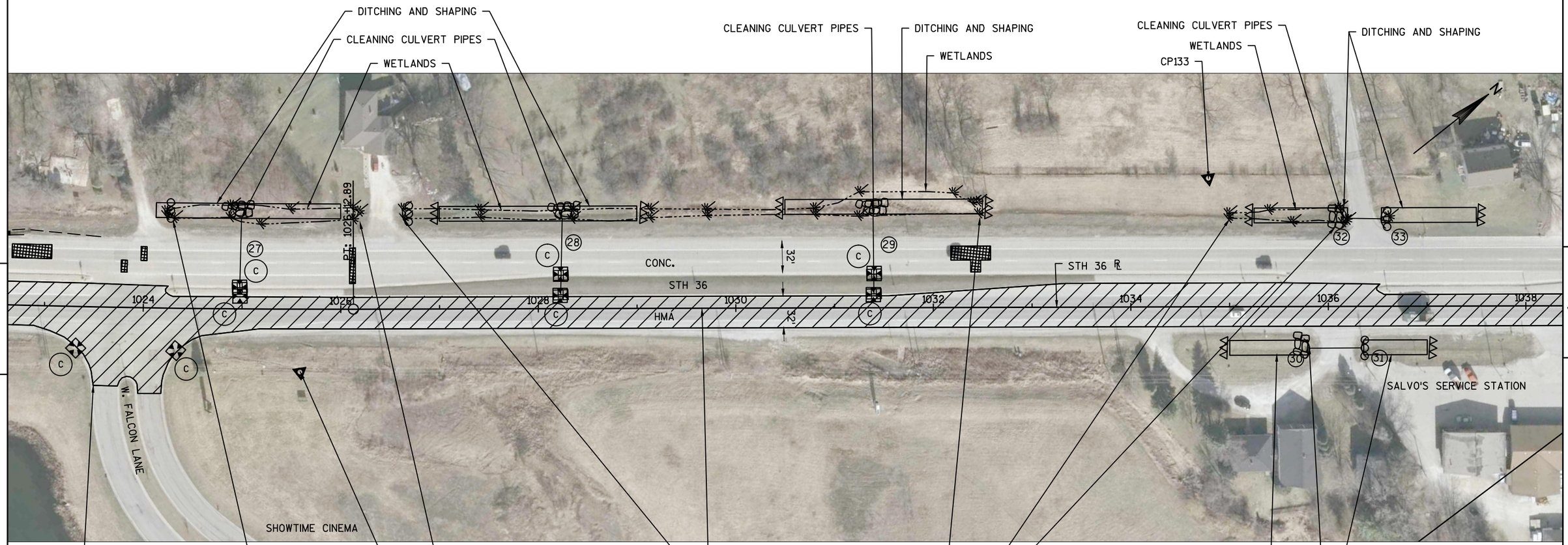
PLOT DATE : 1/5/2016 2:13 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : ---------- PLOT SCALE : **********

EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING 2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 329	E

EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

CLEANING CULVERT PIPES

DITCHING AND SHAPING

CP134

DEERWOOD LANE

PC: 1042+71.72

PI: 1046+21.75

PT: 1049+66.41

PI: 1051+19.97

STH 100

CONC.

HMA

STH 36

1040 1042 1044 1046 1048 1050 1052 1054

STH 36 ℄

32'

WALGREENS

ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND OUTSIDE SHOULDER

PC MONUMENT
DO NOT DISTURB
MONUMENT TO BE MILLED AROUND
AND PAVING RING PLACED PRIOR TO PAVING.
RINGS TO BE PROVIDED BY THE DEPARTMENT

END PROJECT
I.D. 2240-13-60
STA 1047+05
END ASPHALTIC SHOULDER RUMBLE STRIPS
NORTHBOUND OUTSIDE SHOULDER

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

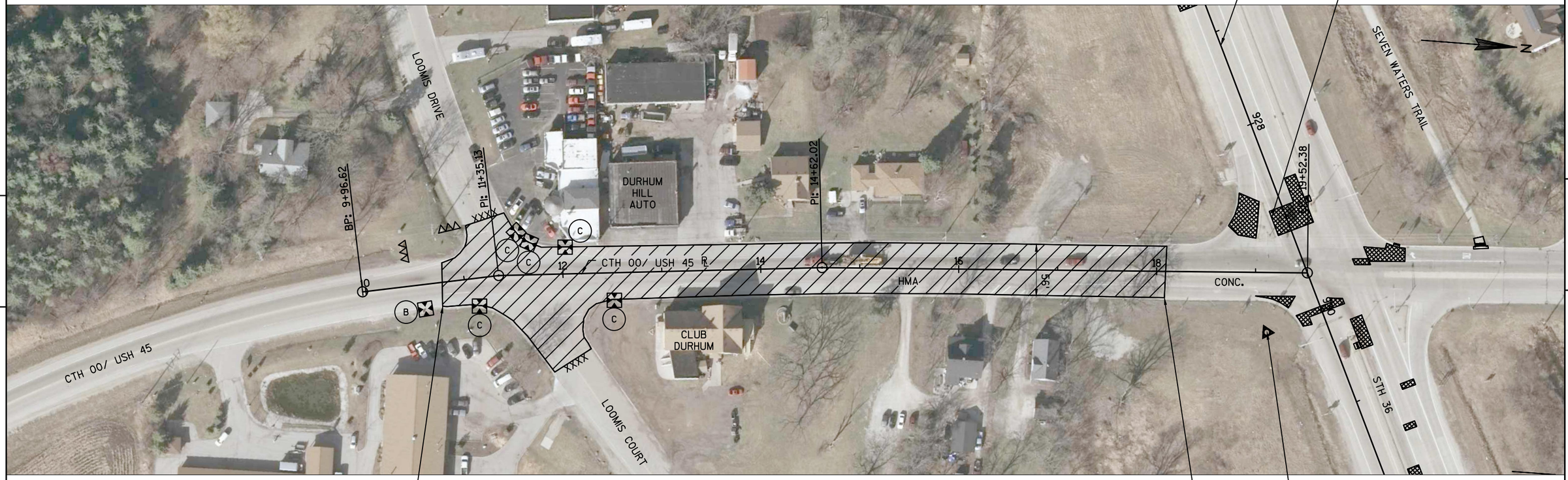
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS	SHEET 330	E

EROSION CONTROL LEGEND

- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- RIP RAP
- SILT FENCE

CAUTION

MAIN POWER SUPPLY
FOR TRAFFIC SIGNALS
RUNS BENEATH CONCRETE
REPAIR AREAS



PROJECT LIMITS
STA 10+70

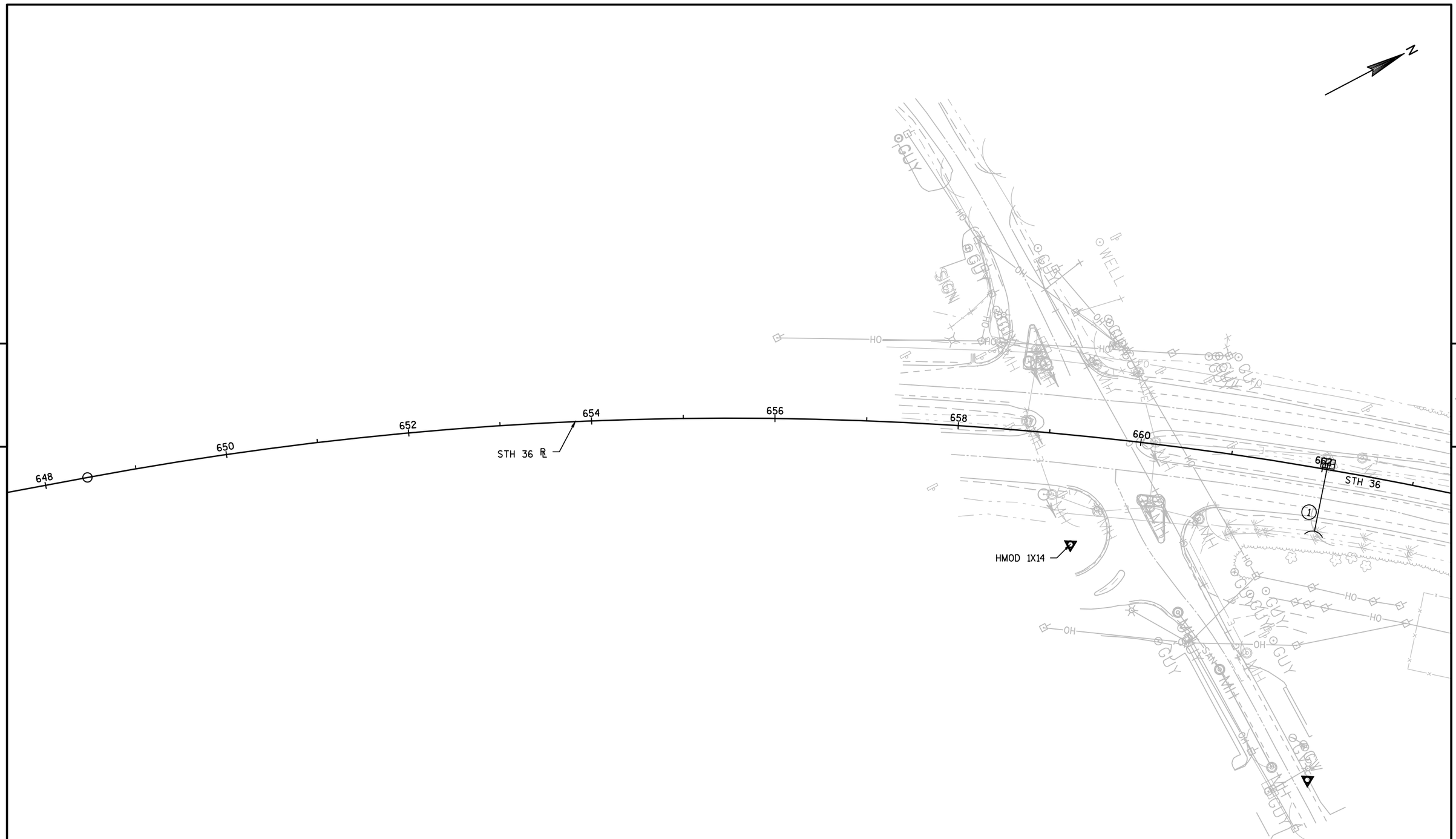
STA 18+10

CP123

LEGEND

- 2" REMOVING ASPHALTIC SURFACE MILLING
  2" HMA PAVEMENT
- CONCRETE PAVEMENT REPAIR/ REPLACEMENT
- RECONSTRUCTION
- XXXX SAWCUT
- (#) CULVERT
- WETLANDS

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN DETAILS - CTH 00/ USH 45	SHEET 331	E

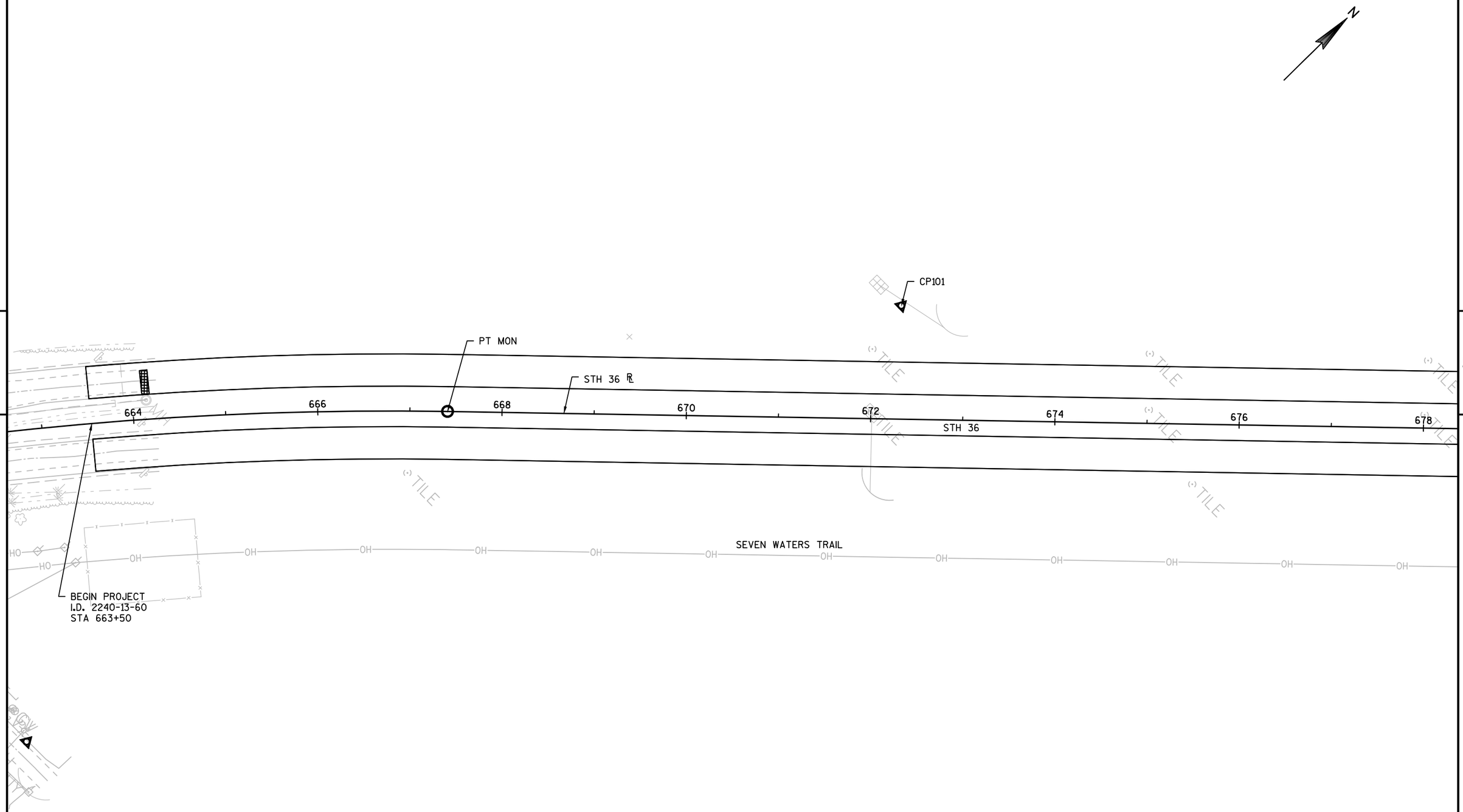


PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 332	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050051_UT.DWG
LAYOUT NAME - (51)_UT

PLOT DATE : 9/17/2015 1:38 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



5

5

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 333	E

5

5

STH 36 ℄

678 680 682 684 686 688 690 692

STH 36

2

CP102

SEVEN WATERS TRAIL

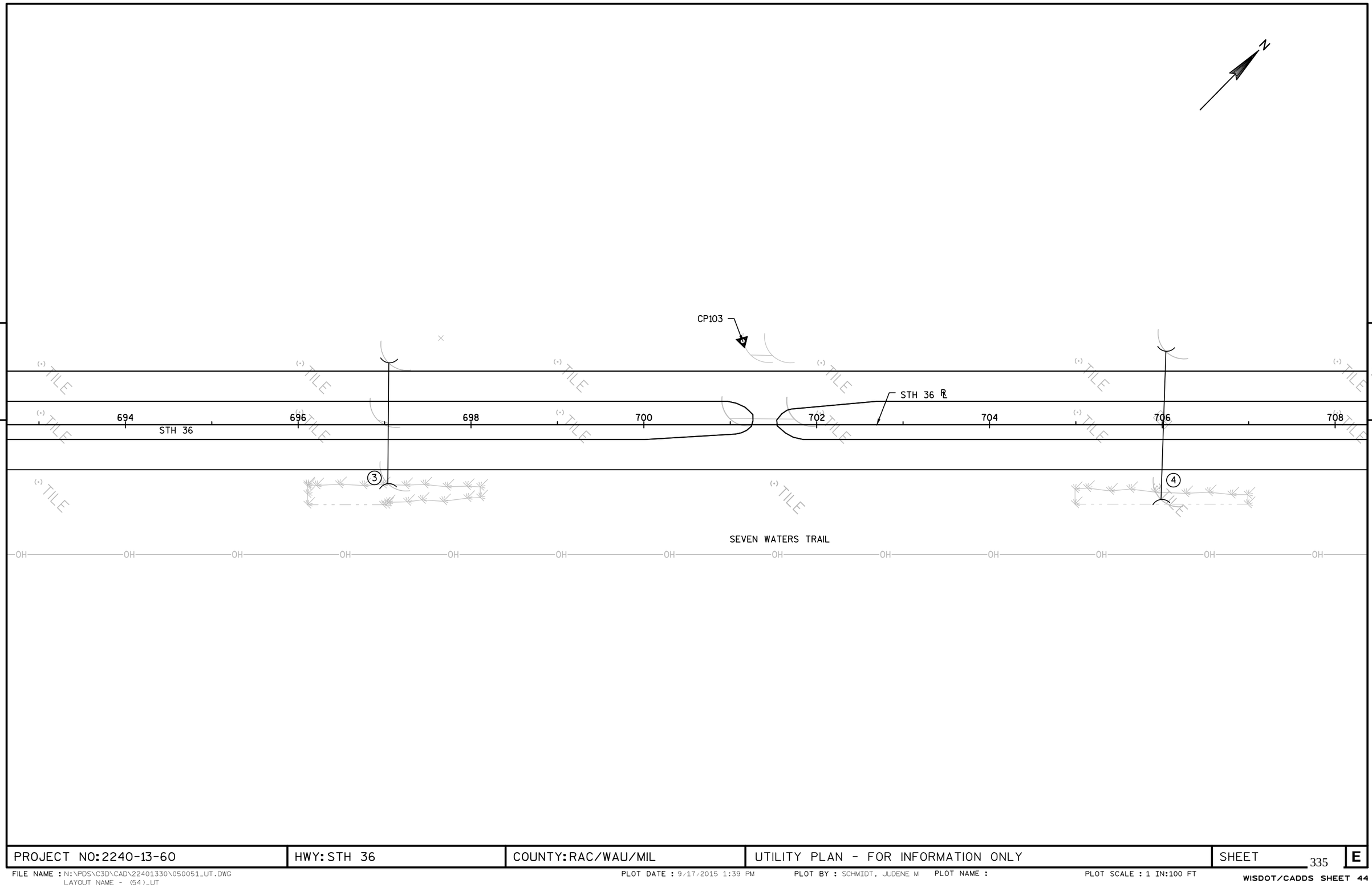
OH OH OH OH OH OH OH OH OH OH OH OH OH OH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 334	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050051_UT.DWG
LAYOUT NAME - (53)_UT

PLOT DATE : 9/17/2015 1:38 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



5

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PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 335	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050051_UT.DWG
LAYOUT NAME - (54)_UT

PLOT DATE : 9/17/2015 1:39 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

N

CP105

5

5

STH 36 ℄

708 710 712 714 716 718 720 722

STH 36

CP104

5

6

SEVEN WATERS TRAIL

OH OH OH OH OH OH OH OH OH OH OH OH OH OH

PROJECT NO:2240-13-60	HWY: STH 36	COUNTY:RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 336	E

5

5

N

HMOD MUSKEGO S GPS

STH 36 ℞

724 726 728 730 732 734 736 738

STH 36

7 8

CP106

TILE

SEVEN WATERS TRAIL

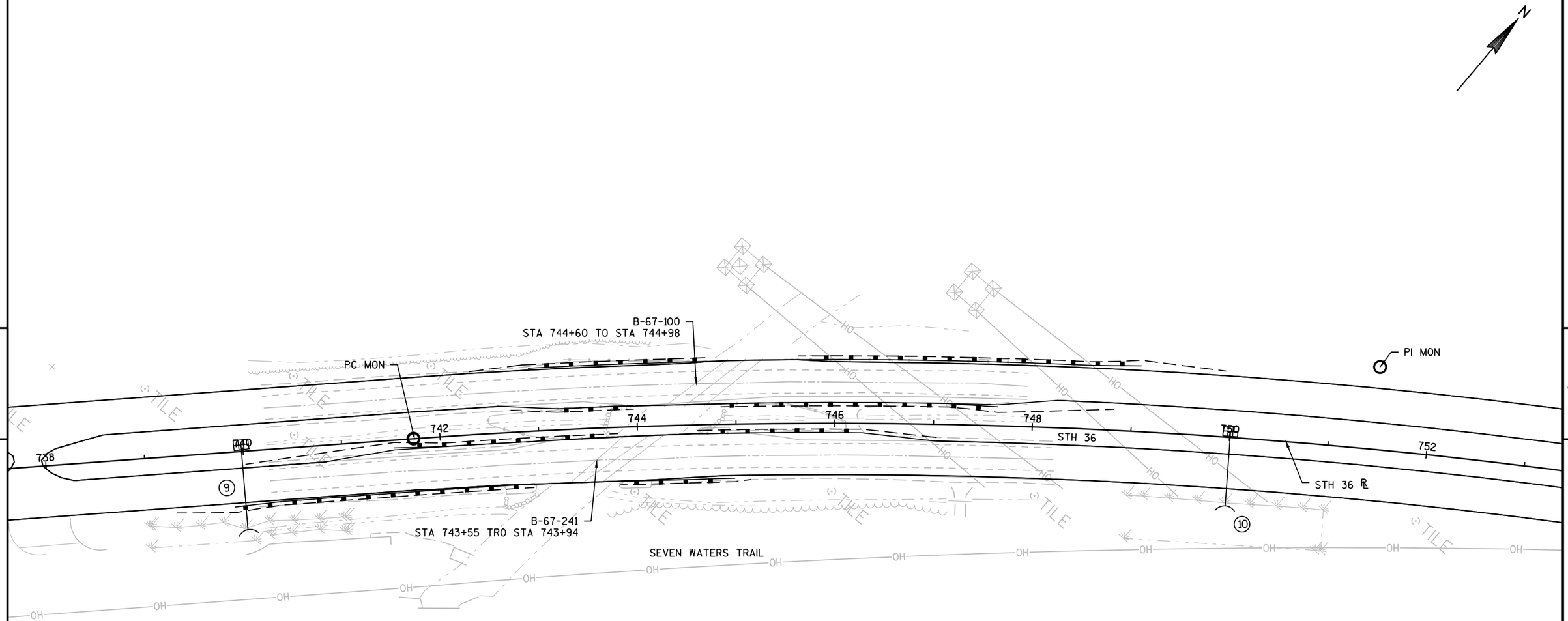
OH

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 337	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050051_UT.DWG
LAYOUT NAME - (56)_UT

PLOT DATE : 9/17/2015 1:39 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

5



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 338	E

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N

OH OH OH OH OH OH OH FO FO FO FO OH FO OH

GUY GUY

TILE TILE TILE TILE TILE TILE TILE TILE

754 756 758 760 762 764 766 768

STH 36

STH 36 ℄

PT MON

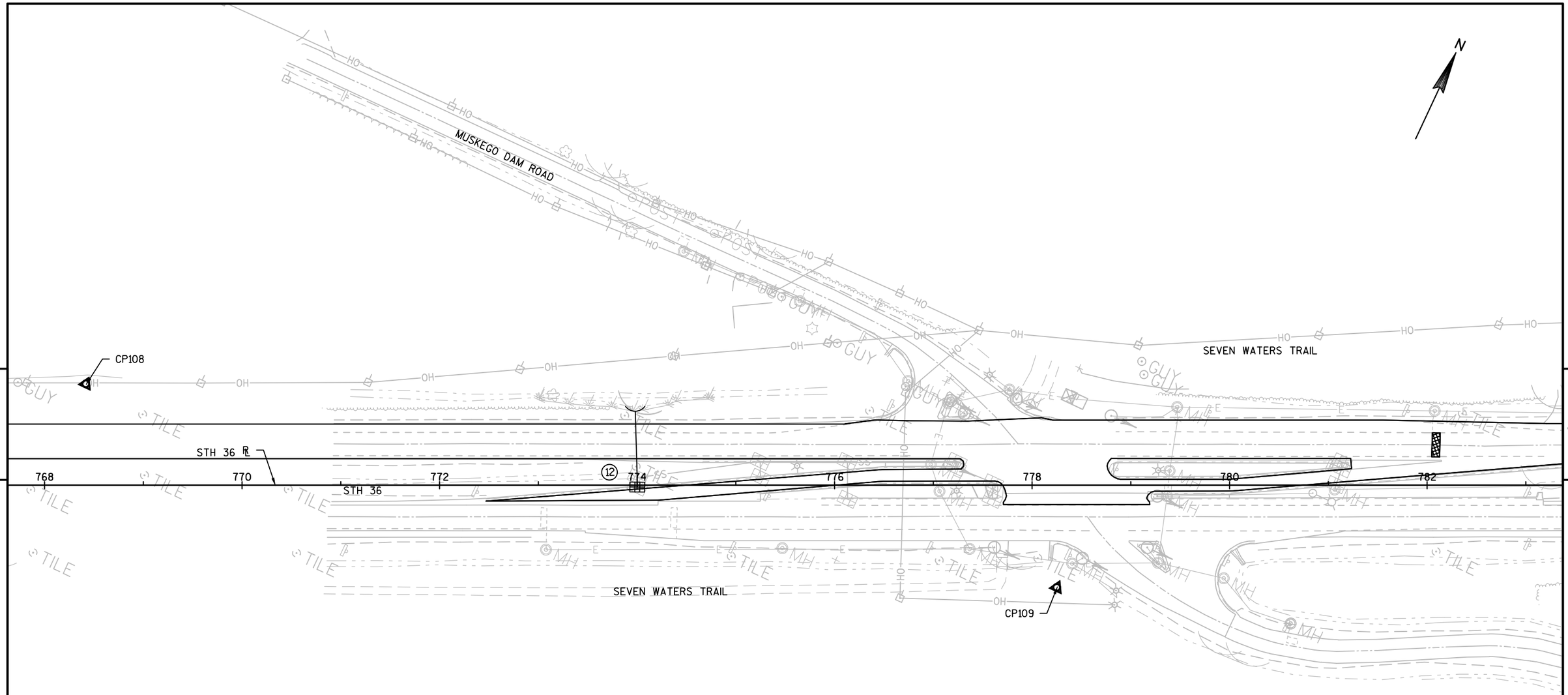
11

SEVEN WATERS TRAIL

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 339	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050051_UT.DWG
LAYOUT NAME - (58)_UT

PLOT DATE : 9/17/2015 1:39 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

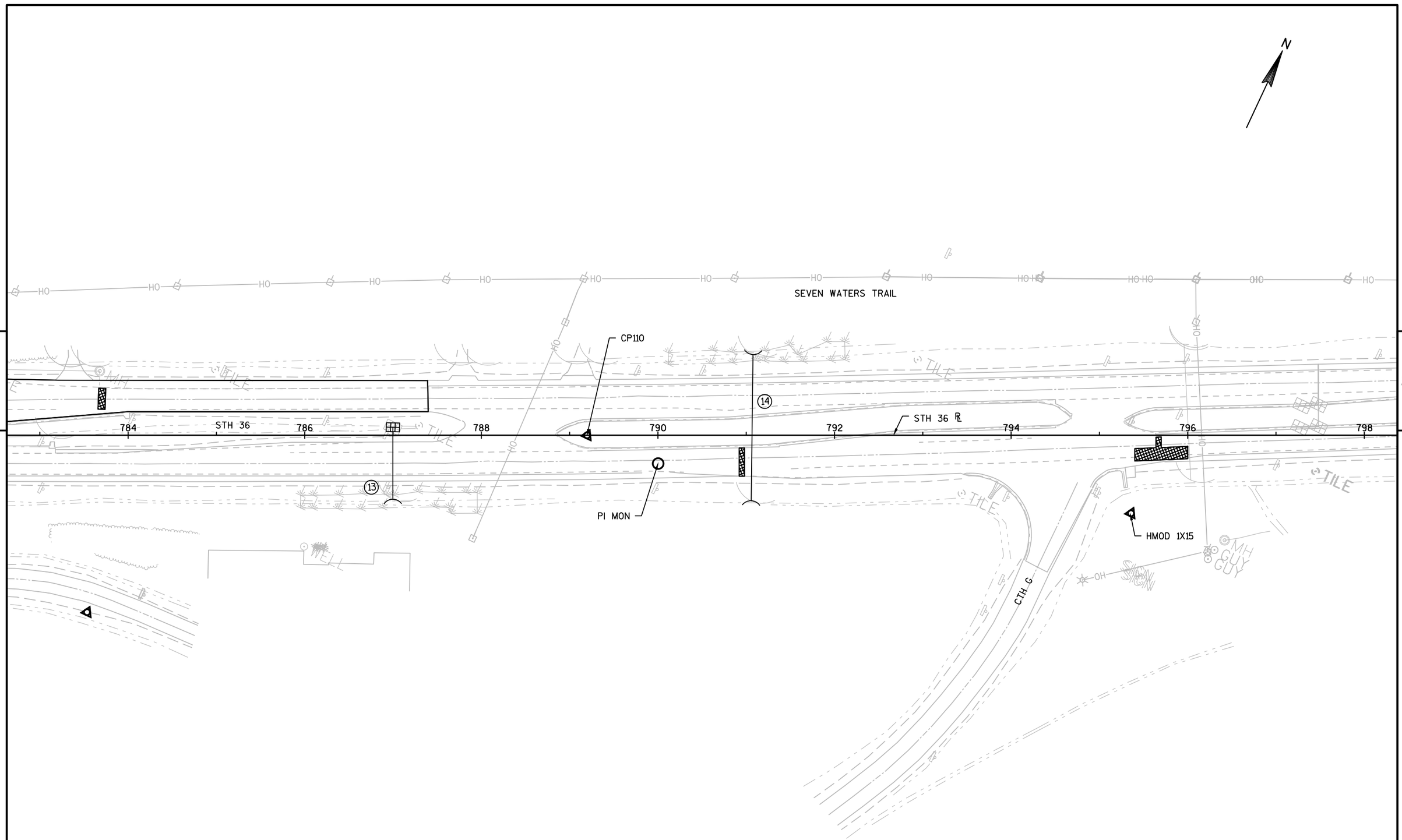


PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 340	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050051_UT.DWG
LAYOUT NAME - (59)_UT

PLOT DATE : 9/17/2015 1:39 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

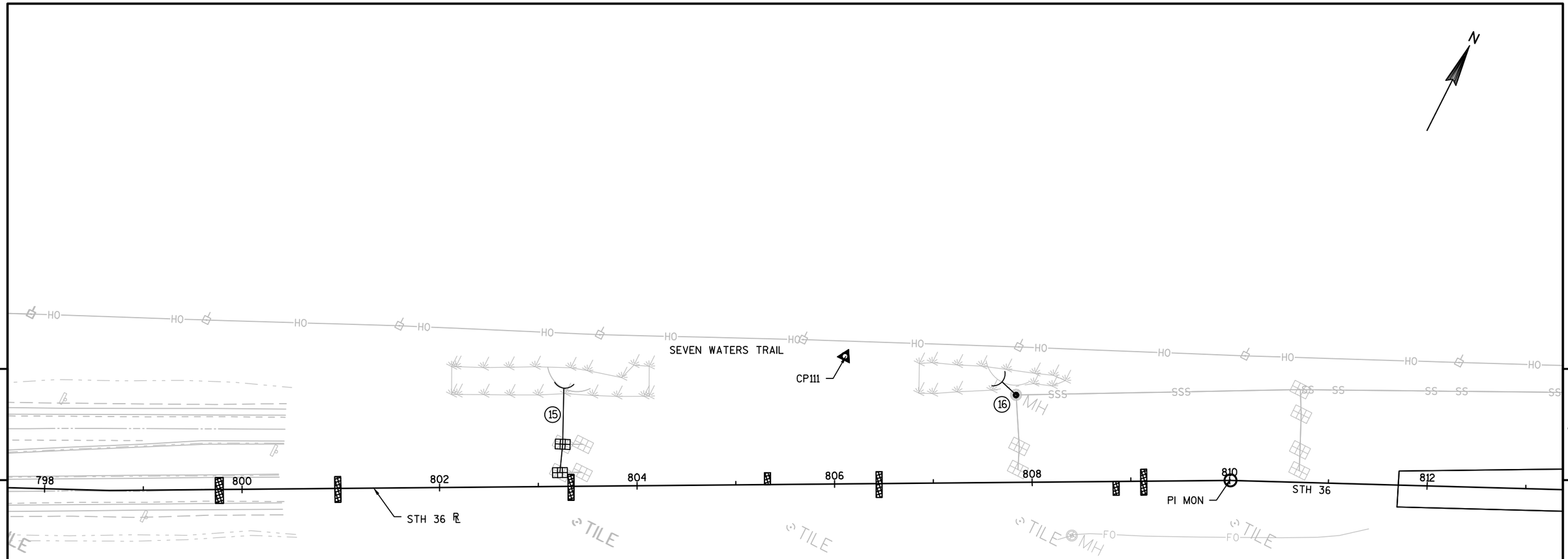


PROJECT NO:2240-13-60	HWY: STH 36	COUNTY:RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 341	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050052_UT.DWG
LAYOUT NAME - 050052_UT - (60)_UT

PLOT DATE : 9/17/2015 1:41 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



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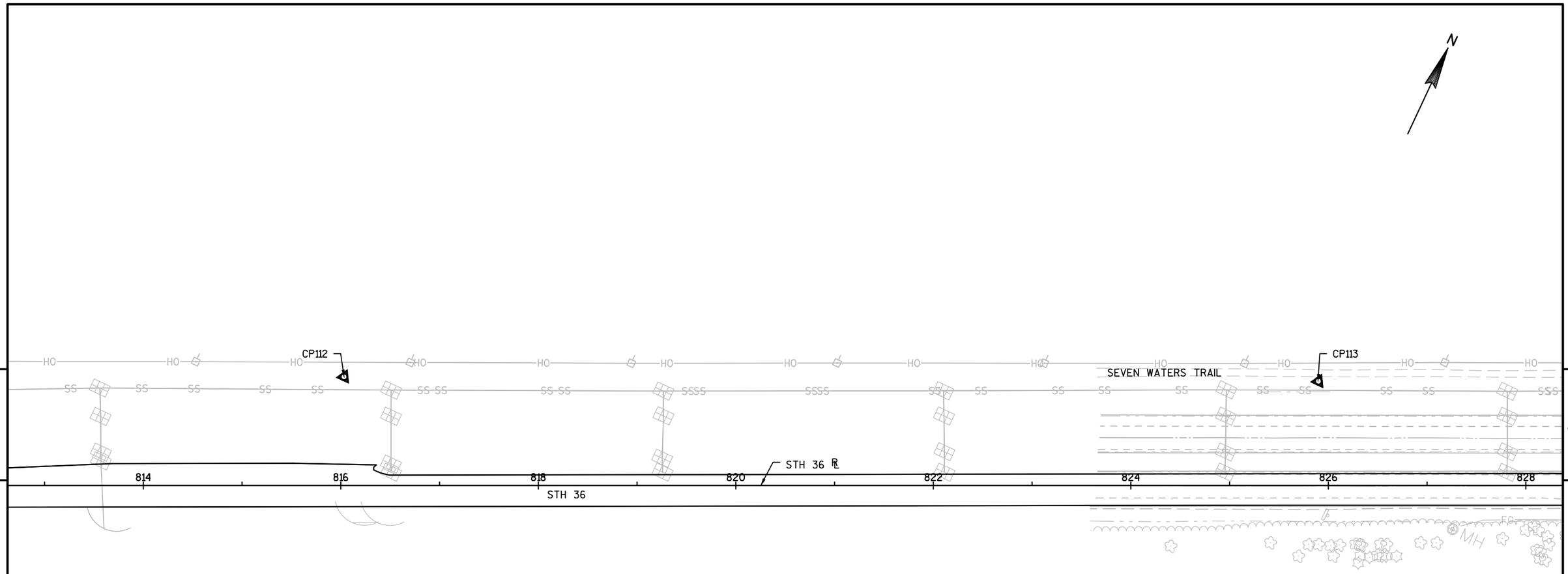
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 342	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050052_UT.DWG
LAYOUT NAME - 050052_UT - (61)_UT

PLOT DATE : 9/17/2015 1:41 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

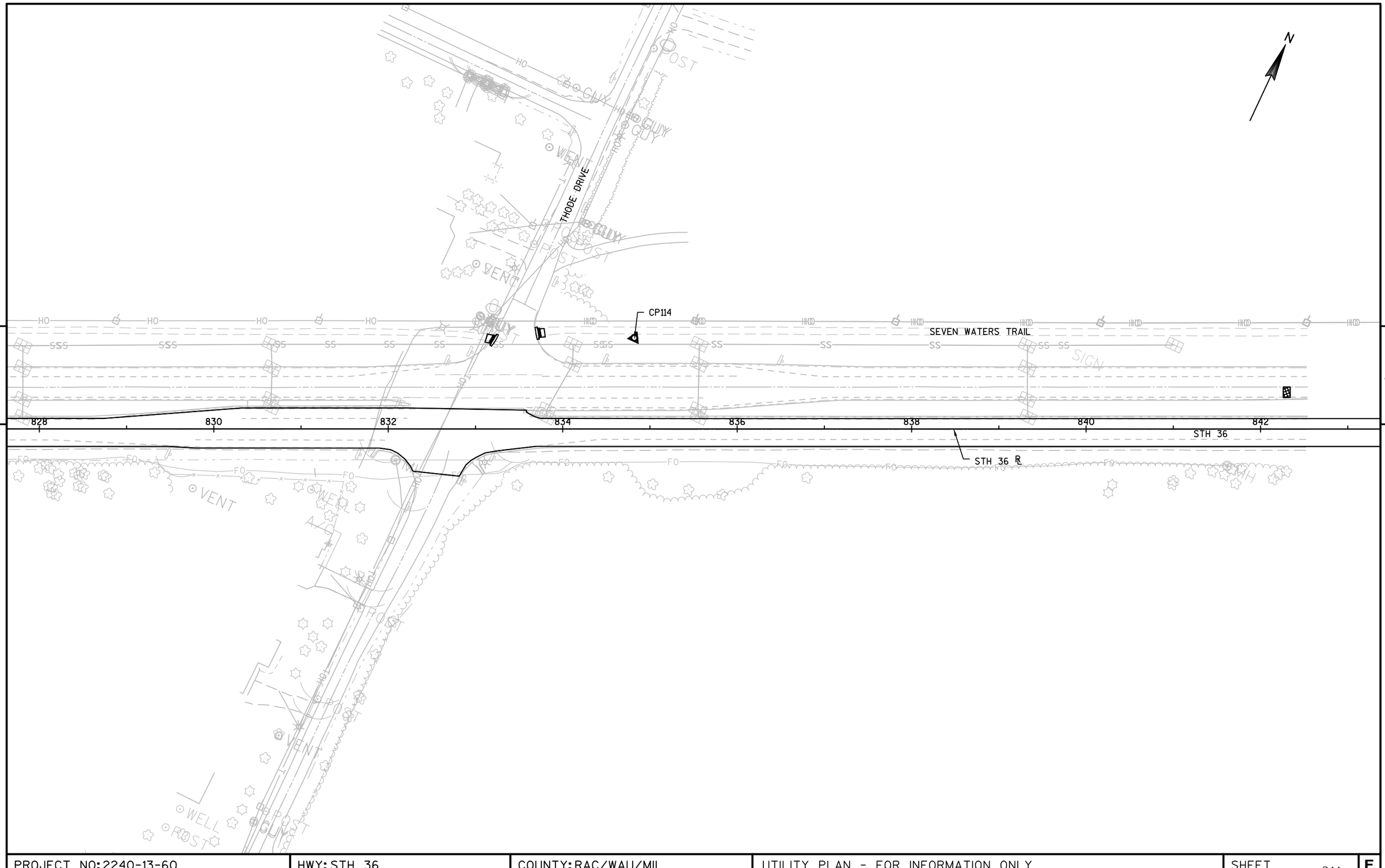


PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 343	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050052_UT.DWG
LAYOUT NAME - 050052_UT - (62)_UT

PLOT DATE : 9/17/2015 1:41 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 344	E

N

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HO HO HO HO HO HO HO OH OH OH OH OH

SEVEN WATERS TRAIL

SS SS SS SS SS SS SS SS SS

CP115

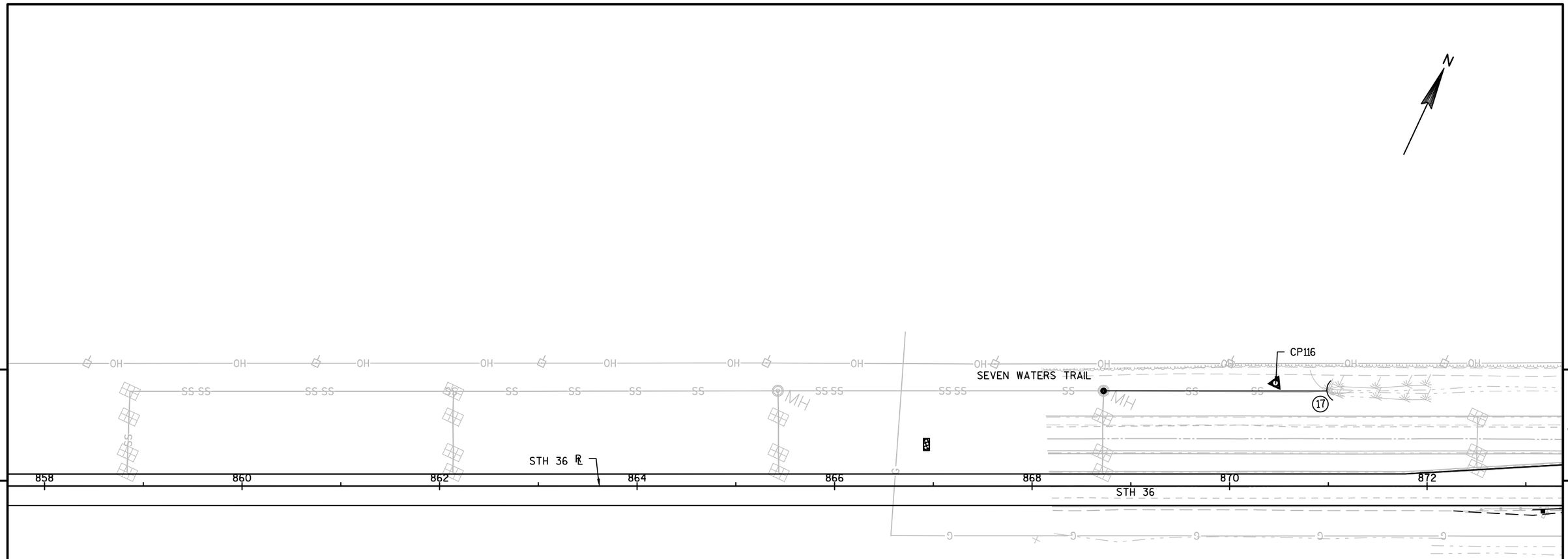
STH 36 ℄

844 846 848 850 852 854 856 858

SSTH 36

HMOD 1X16

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 345	E



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 346	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050052_UT.DWG
LAYOUT NAME - 050052_UT - (65)_UT

PLOT DATE : 9/17/2015 1:42 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

5

5

N

SEVEN WATERS TRAIL

STH 36

STH 36 ℄

874 876 878 880 882 884 886 888

C-67-15
STA 874+85

EXISTING R/W

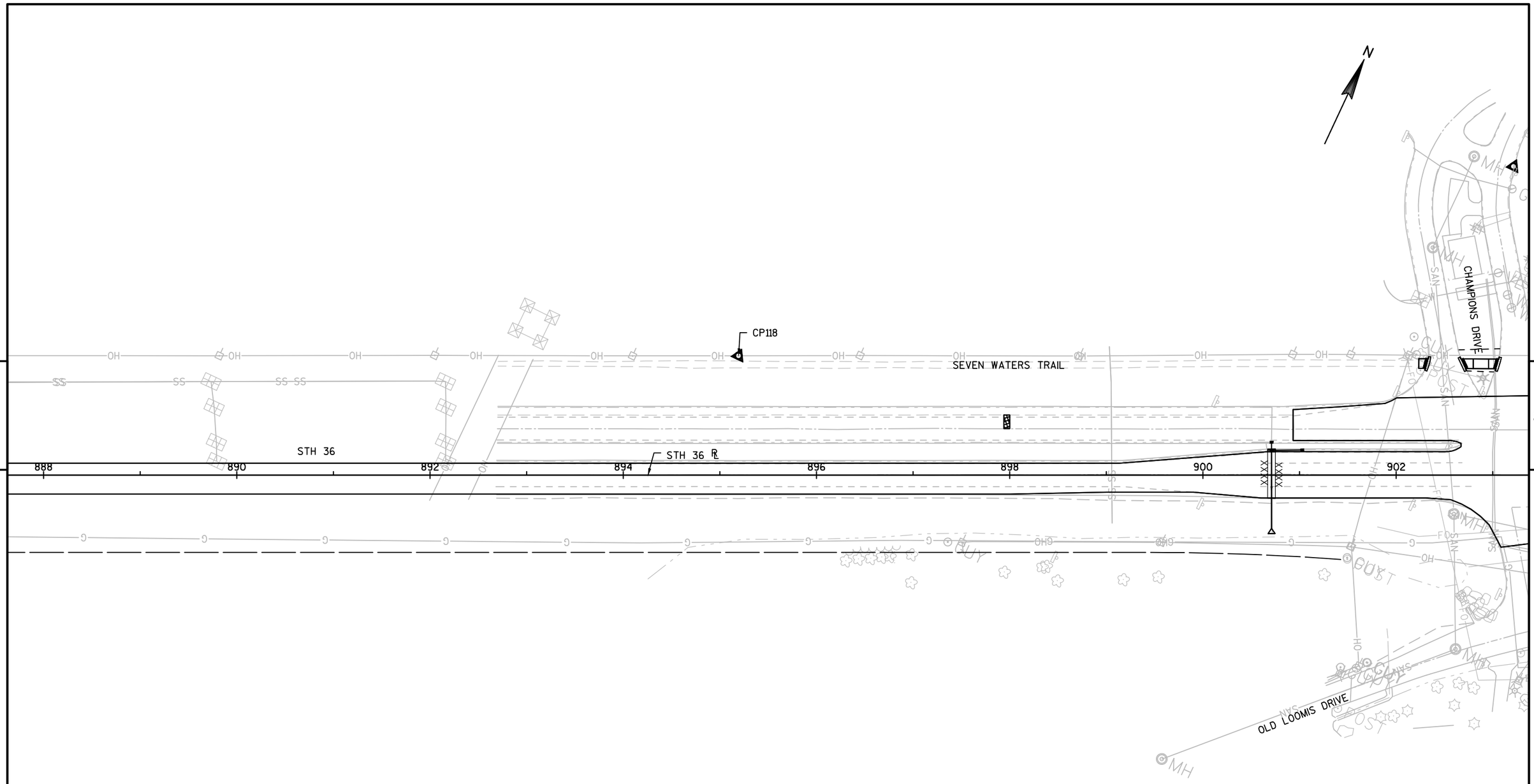
CP117

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 347	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050052_UT.DWG
LAYOUT NAME - 050052_UT - (66)_UT

PLOT DATE : 9/17/2015 1:42 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

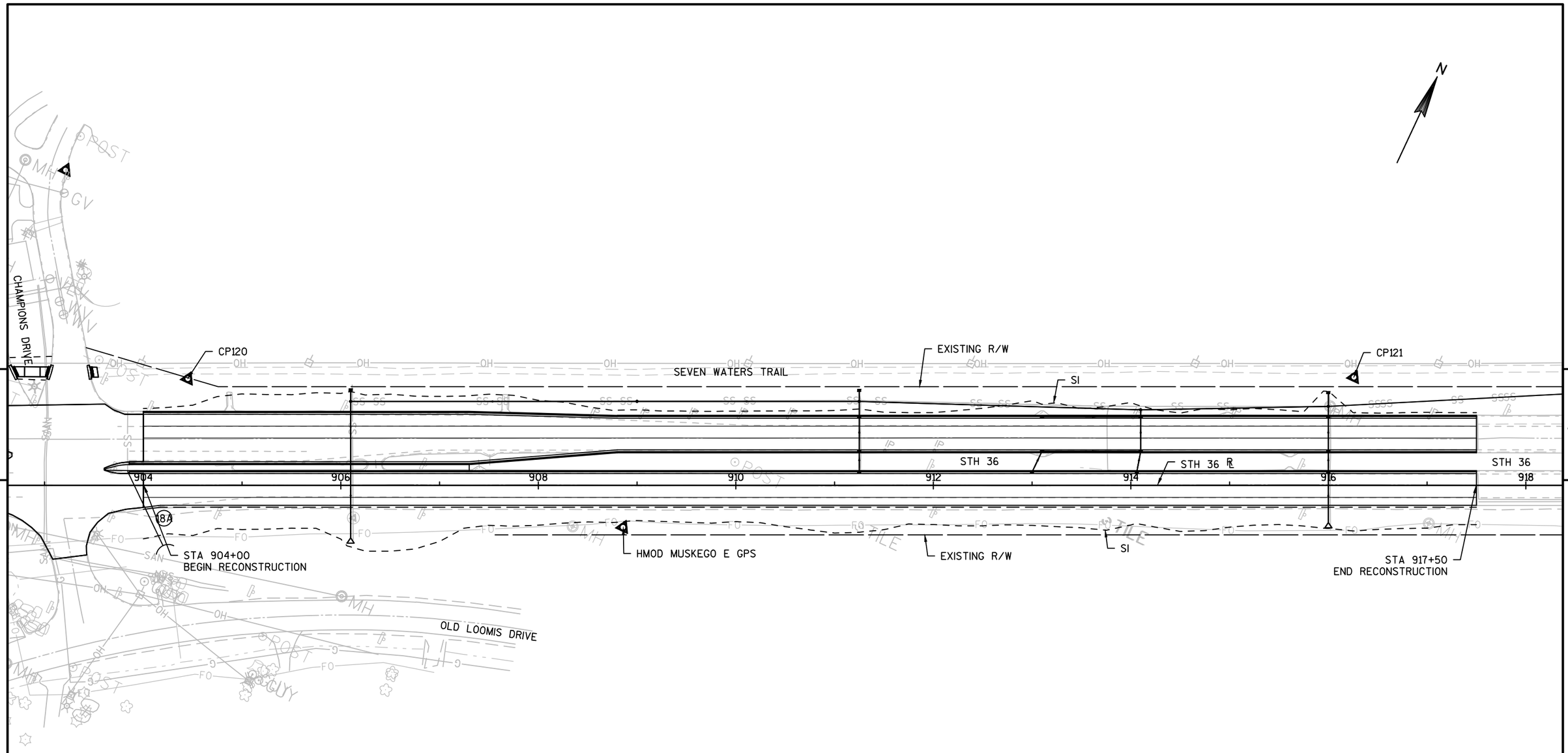


PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 348	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050052_UT.DWG
LAYOUT NAME - 050052_UT - (67)_UT

PLOT DATE : 9/17/2015 1:42 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 349	E

SEVEN WATERS TRAIL

STH 36

STH 36

CTH 00/ USH 45

CP123

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 350	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050053_UT.DWG
LAYOUT NAME - 050053_UT - (69)_UT

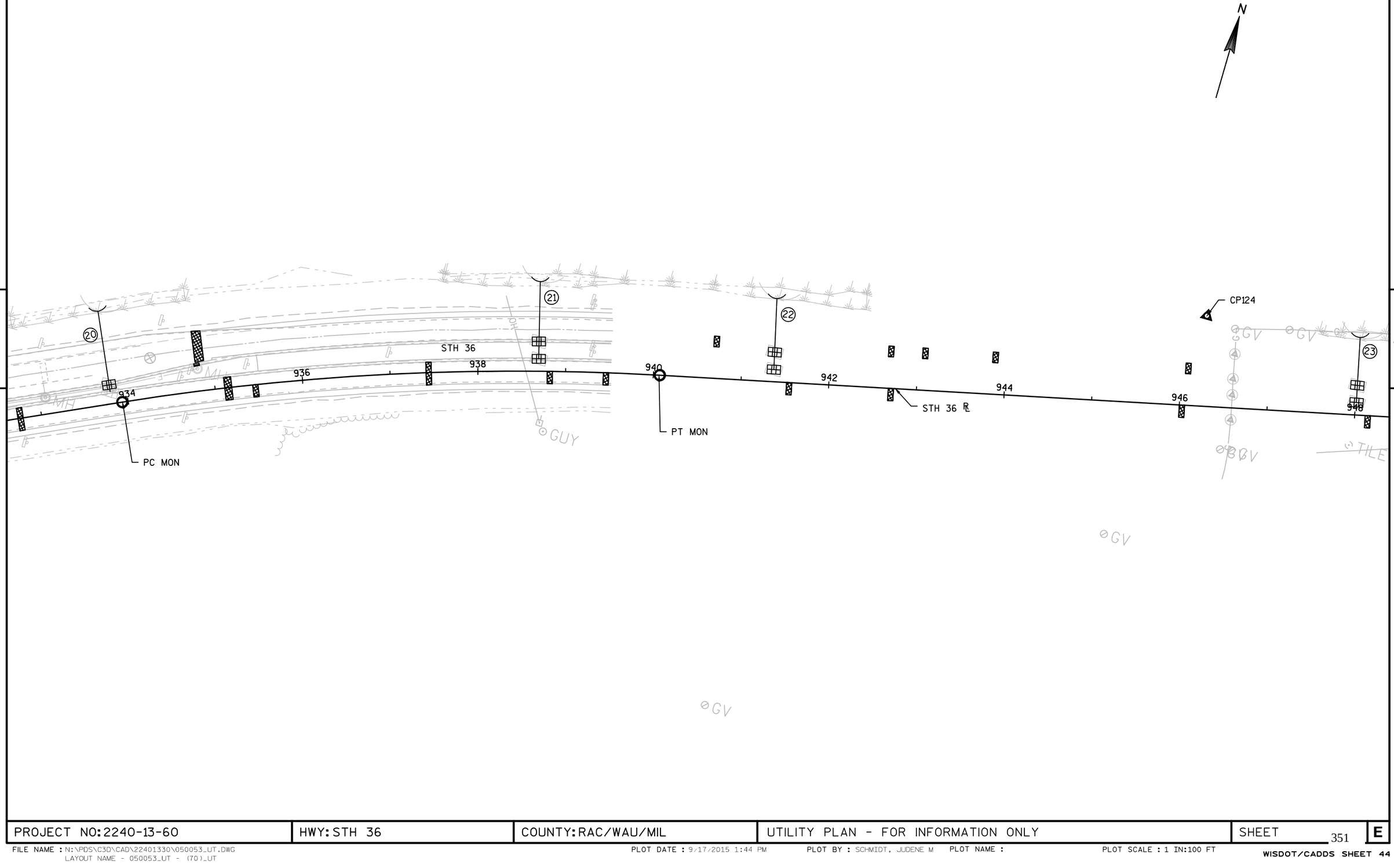
PLOT DATE : 9/17/2015 1:44 PM

PLOT BY : SCHMIDT, JUDENE M

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

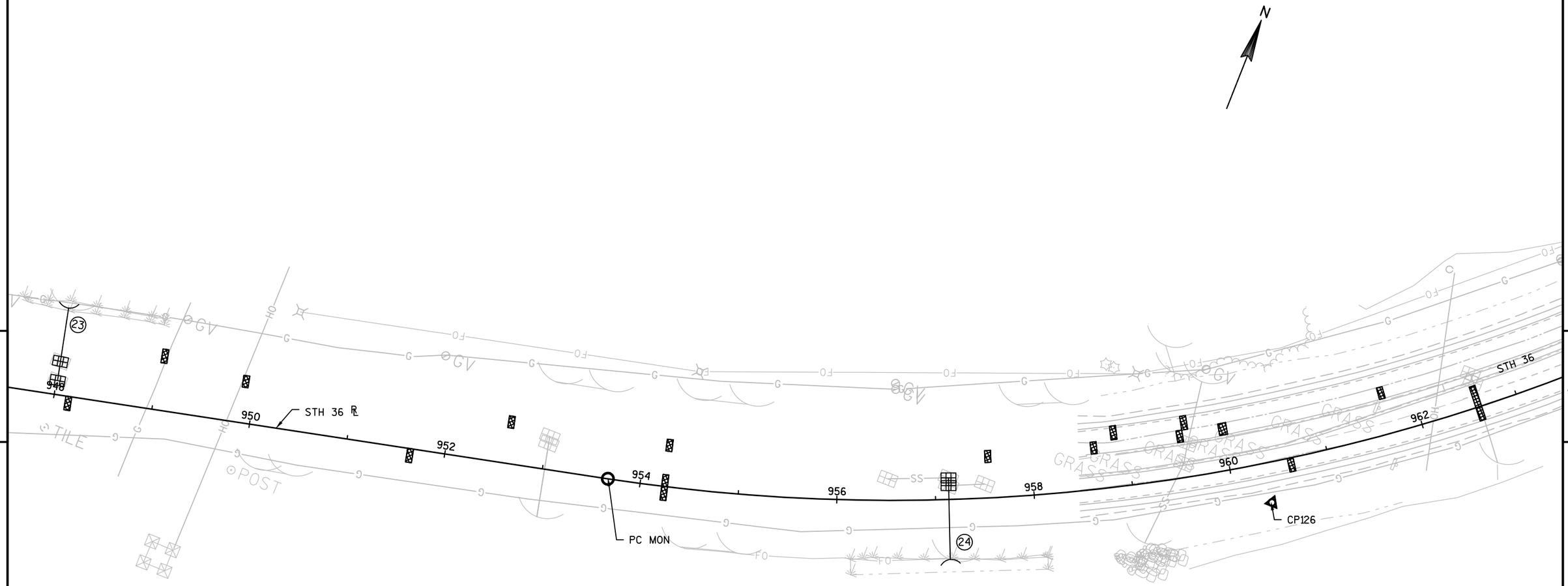


PROJECT NO:2240-13-60	HWY:STH 36	COUNTY:RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 351	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050053_UT.DWG
LAYOUT NAME - 050053_UT - (70)_UT

PLOT DATE : 9/17/2015 1:44 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

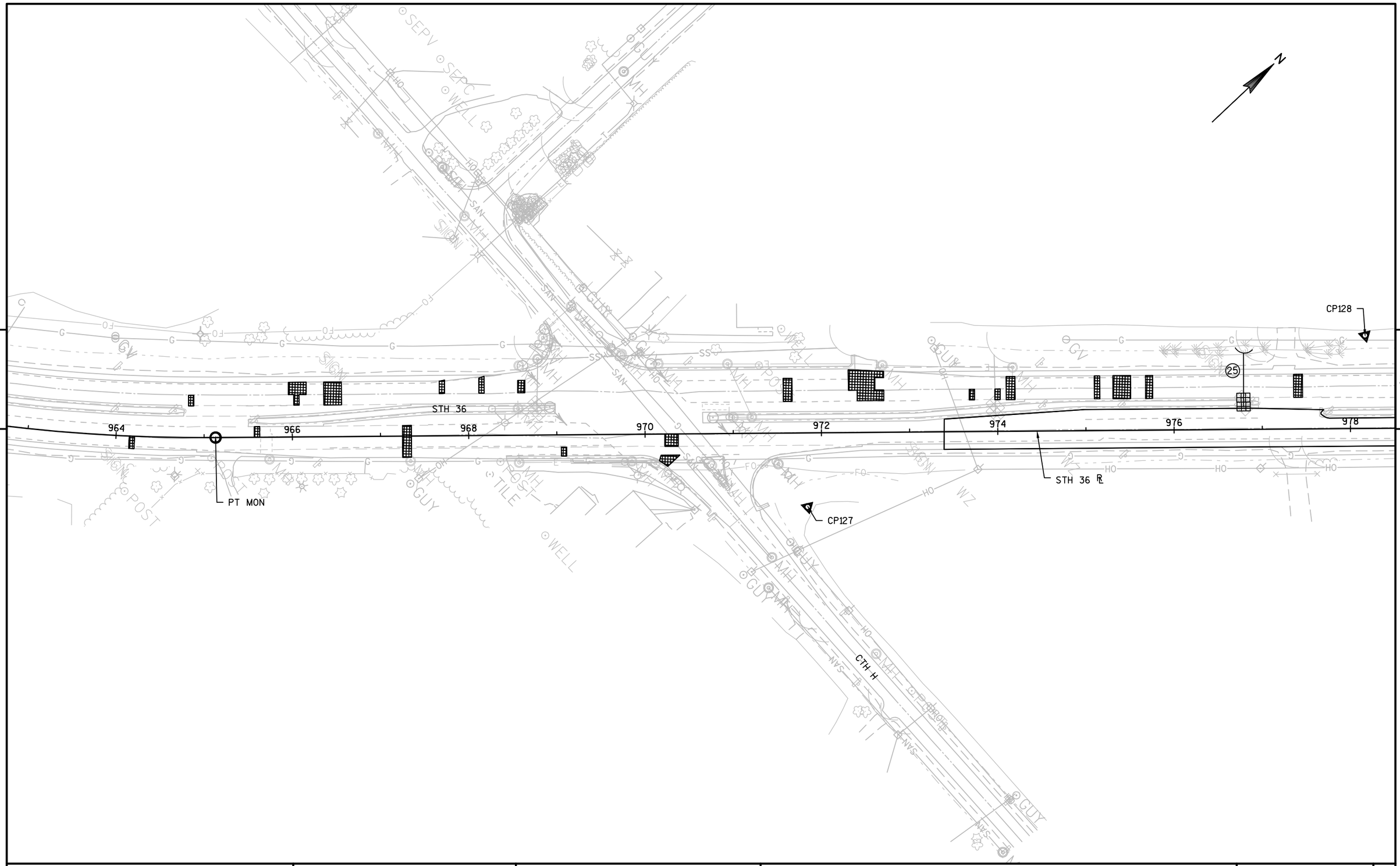


PROJECT NO:2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 352	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050053_UT.DWG
LAYOUT NAME - 050053_UT - (71)_UT

PLOT DATE : 9/17/2015 1:44 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO:2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 353	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050053_UT.DWG
LAYOUT NAME - 050053_UT - (72)_UT

PLOT DATE : 9/17/2015 1:44 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

5

5

HMOD 1X17

STH 36

STH 36 ℞

978 980 982 984 986 988 990 992

C-40-01
STA 979+95

PI MON

PROJECT NO:2240-13-60	HWY:STH 36	COUNTY:RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 354	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050053_UT.DWG
LAYOUT NAME - 050053_UT - (73)_UT

PLOT DATE : 9/17/2015 1:44 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

5

5

N

STH 36 ℄

994 996 998 1000 1002 1004 1006 1008

STH 36

CP130

CP129

PI MON

26

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 355	E

5

5

CP131

STH 36 ℄

PC MON

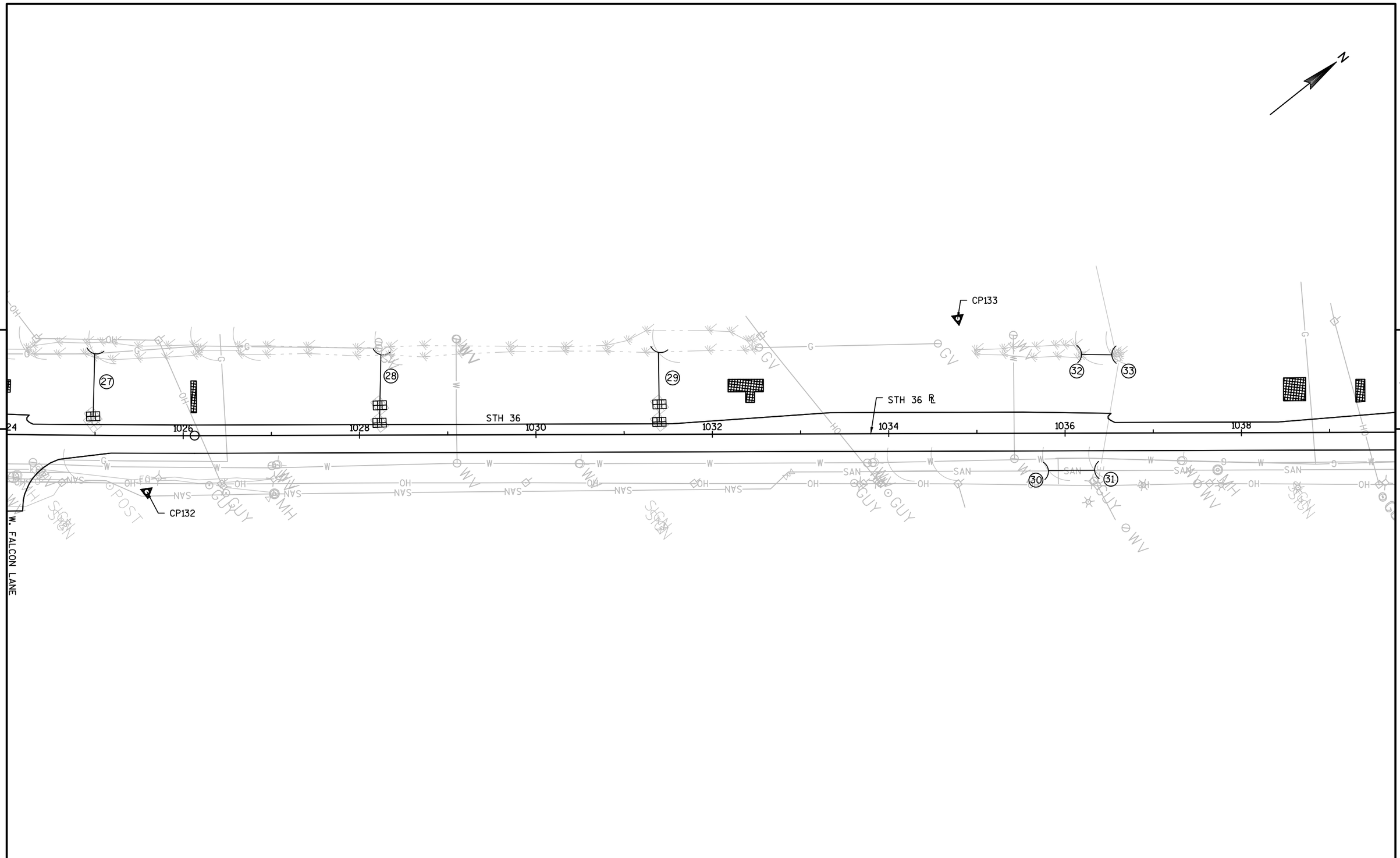
STH 36

1010 1012 1014 1016 1018 1020 1022 1024

C-40-02
STA 1020+42

W. FALCON LANE

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 356	E

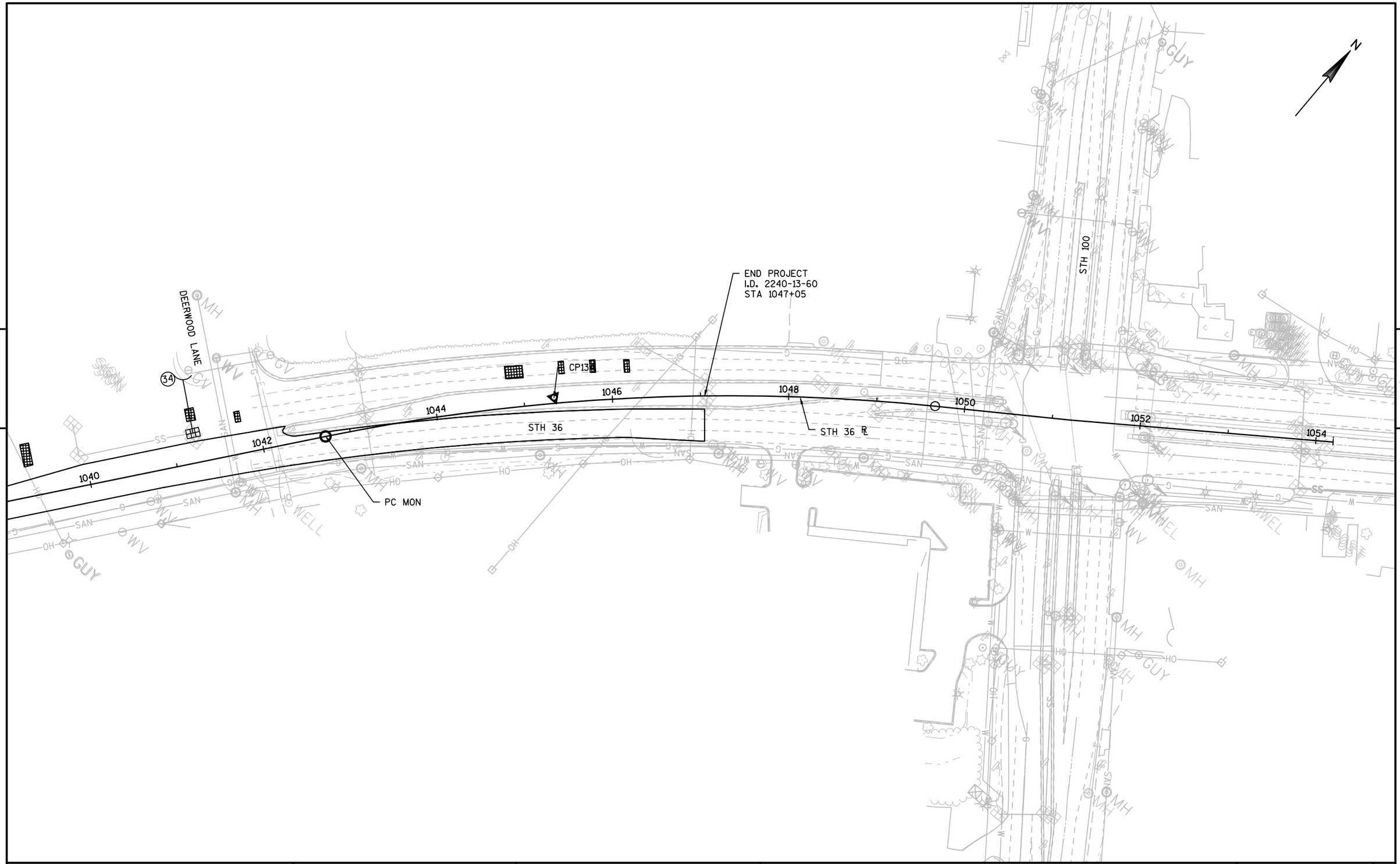


PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 357	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050053_UT.DWG
LAYOUT NAME - 050053_UT - (76)_UT

PLOT DATE : 9/17/2015 1:45 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY	SHEET 358	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050053_UT.DWG
LAYOUT NAME - 050053_UT - (77)_UT

PLOT DATE : 9/17/2015 1:45 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

5

5

LOOMIS DRIVE

STH 36

926

928

STH 36 ℄

10

12

14

16

18

CTH 00/ USH 45

STA 10+70

CTH 00/ USH 45 ℄

STA 18+40

CP123

LOOMIS COURT

932

934

PC MON

N

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	UTILITY PLAN - FOR INFORMATION ONLY - CTH 00/ USH 45	SHEET 359	E

FILE NAME : N:\PDS\C3D\CAD\22401330\050053_UT.DWG
LAYOUT NAME - 050053_UT - (78)_UT

PLOT DATE : 9/17/2015 1:45 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

SEE ALIGNMENT PLAN FOR
BENCHMARK INFORMATION

N

CHAMPIONS DRIVE

CP120

SI

SEVEN WATERS TRAIL

STH 36 SB ℄

EXISTING R/W

CP121

906 908 HMA 910 912 914 916 CONC.

HMA

STH 36

904 906 908 HMA 910 912 914 916 918 CONC.

SI

STH 36 ℄

EXISTING R/W

SECTION CORNER MONUMENT
SEE GENERAL NOTES
FOR CONTACT INFORMATION
PRIOR TO BEGINNING CONSTRUCTION
NEAR MONUMENT

HMOD
MUSKEGO E GPS
DO NOT DISTURB

LOOMIS DRIVE

STA 904+00
END RESUFACING
BEGIN RECONSTRUCTION

STA 917+50
END RECONSTRUCTION
BEGIN CONCRETE PAVEMENT REPAIR/ REPLACEMENT

5

5

STA 904+00.00
EL 782.78

VPC STA 904+86.56
VPC EL 783.22

VPI STA 906+62.29
VPI EL 784.11
HIGH POINT STA 906+63.24
HIGH POINT EL 783.67

VPT STA 908+38.03
VPT EL 783.23

VCL = 432.10
K = 275.00

STA 917+50.00
EL 782.84

795 790 785 780 775 770 765 760

0.50%

-0.50%

STH 36 ℄ PROPOSED PROFILE

1.07%

STH 36 ℄ EXISTING PROFILE

VPC STA 912+68.95
VPC EL 781.08

LOW POINT STA 914+06.28
LOW POINT EL 780.74

VPI STA 914+85.00
VPI EL 780.00

VPT STA 917+01.05
VPT EL 782.32

VCL = 351.47
K = 350.00

EXISTING PROFILE ELEVATION

PROPOSED PROFILE ELEVATION

903	903+50	904	904+50	905	905+50	906	906+50	907	907+50	908	908+50	909	909+50	910	910+50	911	911+50	912	912+50	913	913+50	914	914+50	915	915+50	916	916+50	917	917+50	918
782.29	782.63	782.79	782.59	782.34	781.86	781.50	781.38	781.64	781.72	782.34	782.92	782.85	782.60	782.22	781.94	781.89	781.79	781.39	781.10	780.86	780.78	780.70	780.59	780.48	780.35	780.93	781.69	782.30	782.77	783.33
		782.78	783.04	783.29	783.48	783.61	783.66	783.65	783.56	783.40	783.17	782.92	782.67	782.42	782.17	781.92	781.67	781.42	781.17	780.94	780.79	780.74	780.77	780.90	781.11	781.42	781.82	782.30	782.84	

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN AND PROFILE: STH 36 NORTHBOUND	SHEET 360	E

SEE ALIGNMENT PLAN FOR
BENCHMARK INFORMATION

CHAMPIONS DRIVE

CP120

SI

SEVEN WATERS TRAIL

STH 36 SB ℄

EXISTING R/W

CP121

HMA

STH 36

CONC.

SECTION CORNER MONUMENT
SEE GENERAL NOTES
FOR CONTACT INFORMATION
PRIOR TO BEGINNING CONSTRUCTION
NEAR MONUMENT

LOOMIS DRIVE

HMOD
MUSKEGO E GPS
DO NOT DISTURB

STA 904+00
END RESUFACING
BEGIN RECONSTRUCTION

STA 917+50
END RECONSTRUCTION
BEGIN CONCRETE PAVEMENT REPAIR/ REPLACEMENT

STH 36 ℄

EXISTING R/W

STA 904+00.00
EL 782.59

VPC STA 904+56.49
VPC EL 782.87

VPI STA 906+83.06
VPI EL 784.00

HIGH POINT STA 906+83.90
HIGH POINT EL 783.44

VPT STA 909+09.63
VPT EL 782.88

VCL = 400.87
K = 254.00

STA 917+50.00
EL 782.89

0.50%

-0.50%

STH 36 SB ℄ PROPOSED PROFILE

1.08%

STH 36 SB ℄ EXISTING PROFILE

VCL = 453.14
K = 455.00

VPC STA 912+84.42
VPC EL 781.02

LOW POINT STA 914+10.44
LOW POINT EL 780.71

VPI STA 914+84.86
VPI EL 780.03

VPT STA 916+85.30
VPT EL 782.19

EXISTING PROFILE ELEVATION

PROPOSED PROFILE ELEVATION

903	903+50	904	904+50	905	905+50	906	906+50	907	907+50	908	908+50	909	909+50	910	910+50	911	911+50	912	912+50	913	913+50	914	914+50	915	915+50	916	916+50	917	917+50	918
782.05	782.39	782.59	782.59	782.84	781.91	783.07	781.33	783.24	780.94	783.36	780.78	783.43	780.75	783.44	780.70	783.39	780.73	783.29	781.80	783.14	782.65	782.93	782.76	782.68	782.60	782.43	782.35	782.18	782.02	781.93	781.88	781.69	781.77	781.44	781.54	781.19	781.13	780.95	780.70	780.78	781.05	780.71	781.34	780.74	781.17	780.86	780.88	781.09	780.78	781.41	781.32	781.84	781.86	782.35	782.35	782.89	782.90	783.41

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	PLAN AND PROFILE: STH 36 SOUTHBOUND	SHEET 361	E

Standard Detail Drawing List

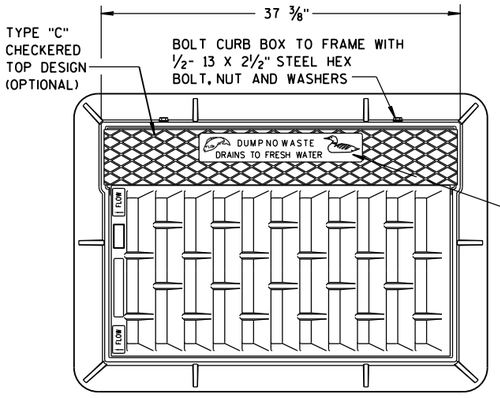
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-18	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-16A	CURB RAMPS TYPES 1 AND 1-A
08D05-16B	CURB RAMPS TYPES 2 AND 3
08D05-16C	CURB RAMPS TYPES 4A AND 4A1
08D05-16D	CURB RAMPS TYPE 4B AND 4B1
08D05-16E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D15-05A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E11-02	TURBIDITY BARRIER
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
09B04-11	PULL BOX
09F15-04A	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13A10-01C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C09-13A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-13B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-13C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C14-06A	BASE PATCHING CONCRETE
13C14-06B	BASE PATCHING CONCRETE
13C14-06C	BASE PATCHING CONCRETE
14B28-03	GUARDRAIL MOW STRIP
14B29-01	SAFETY EDGE
14B42-03A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B47-02A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15A02-08	DELINEATOR POST, DELINEATOR, AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-02	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)

6

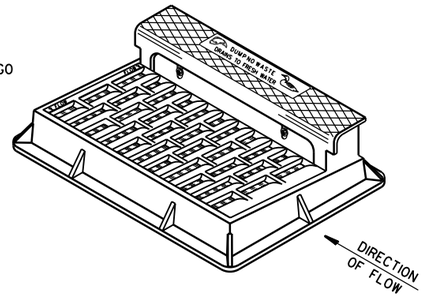
Standard Detail Drawing List

15C11-06	FLEXIBLE TUBULAR MARKER POST
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-03A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-03B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-03C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C20-01	YIELD MARKING
15C27-01	DOUBLE ARROW WARNING SIGN PLACEMENT
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D06-03	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D09-03	TRAFFIC CONTROL, SINGLE LANE CROSSOVER EXIT
15D11-06	TRAFFIC CONTROL, SINGLE LANE CROSSOVER
15D12-05A	TRAFFIC CONTROL, LANE CLOSURE
15D12-05B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D21-03	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-02	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS

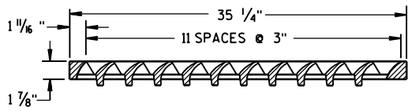
6

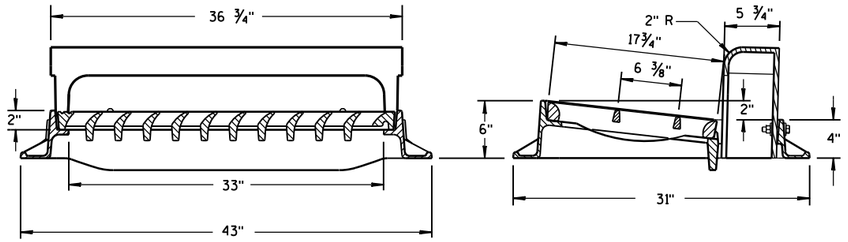


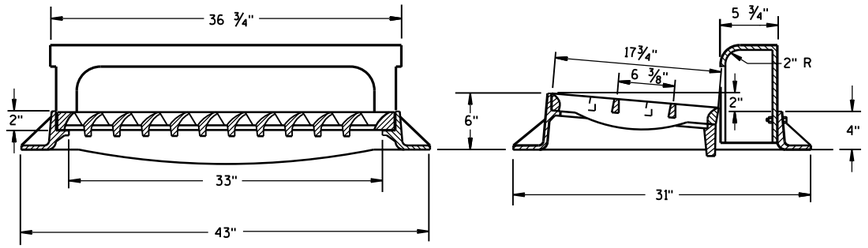
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

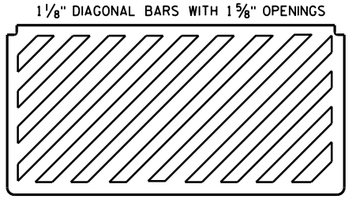






TYPE "H"

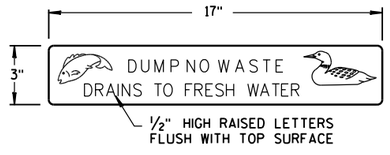
NOTE: EITHER CASTING IS ACCEPTABLE



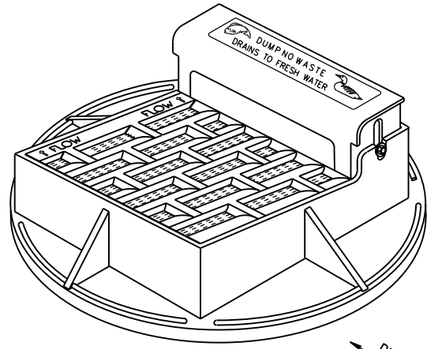
SPECIAL GRATE FOR TYPE "H" COVER

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

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

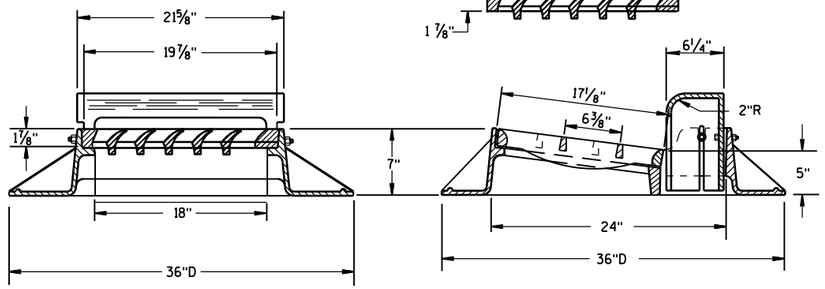


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



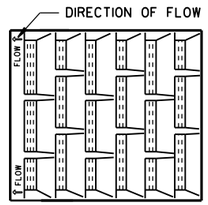
TYPE "A"

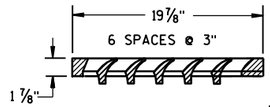
GENERAL NOTES

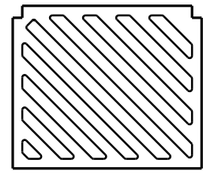
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.



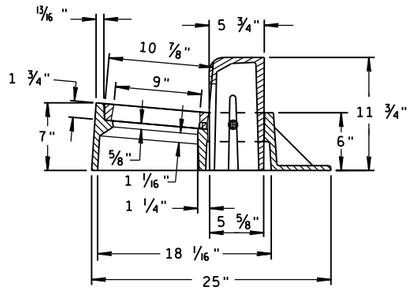


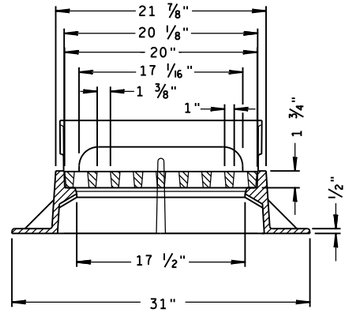


SPECIAL GRATE FOR TYPE "A" COVER

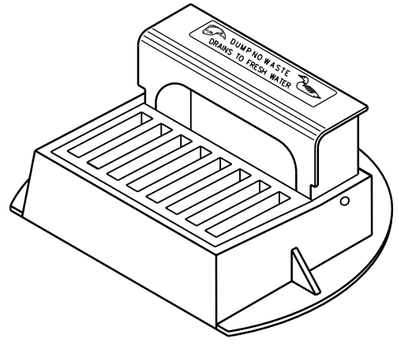
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"



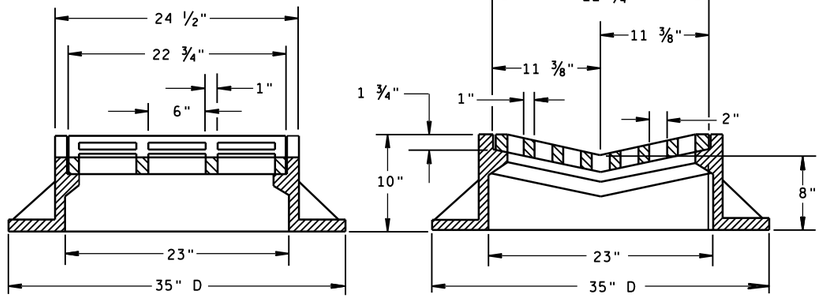
INLET COVERS TYPE A, H, A-S, H-S & Z

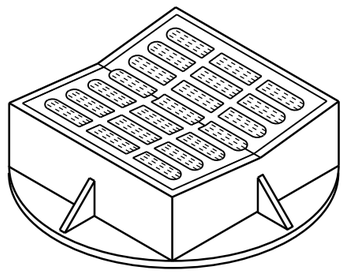
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

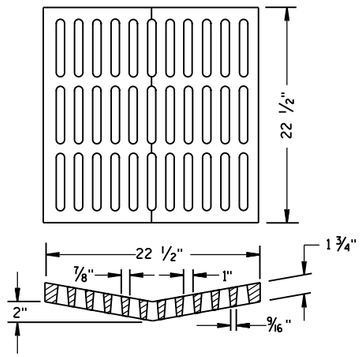
6

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



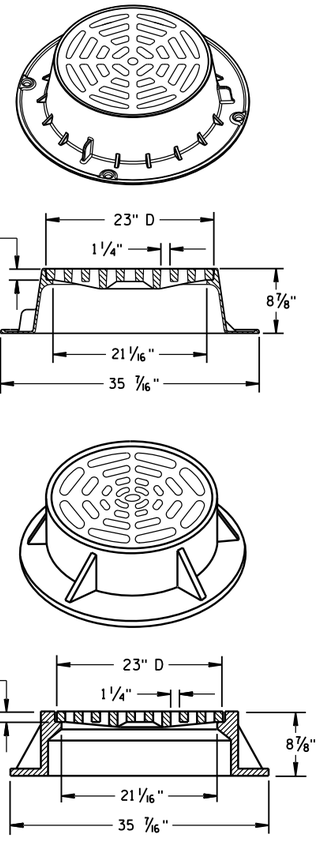


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

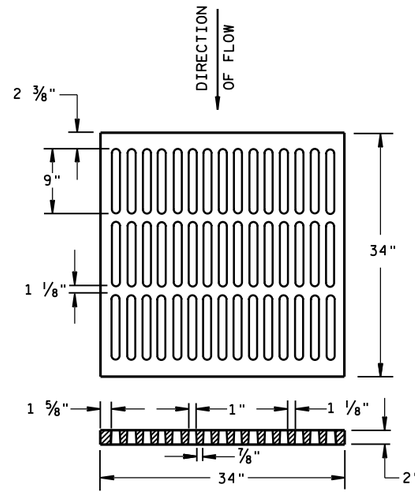
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

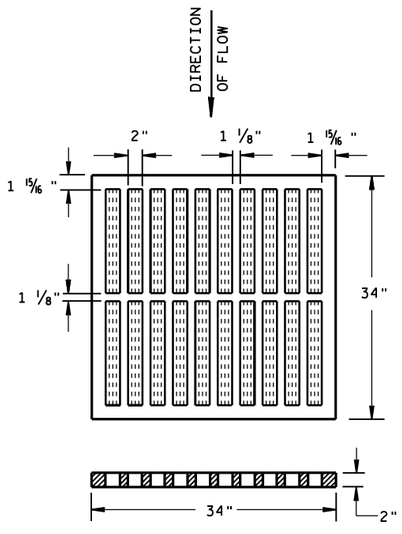
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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



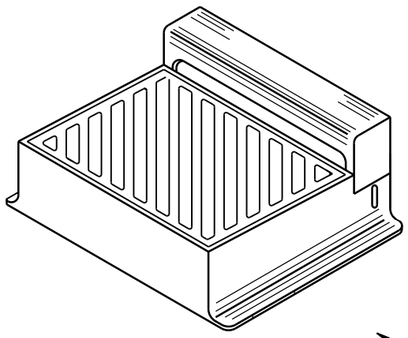
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

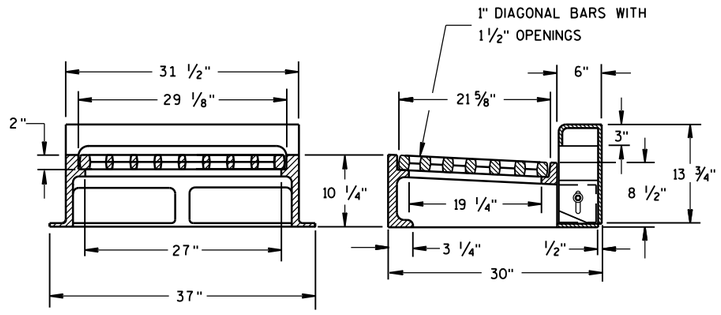


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

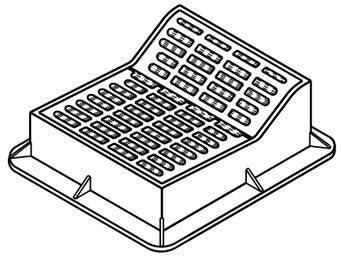
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

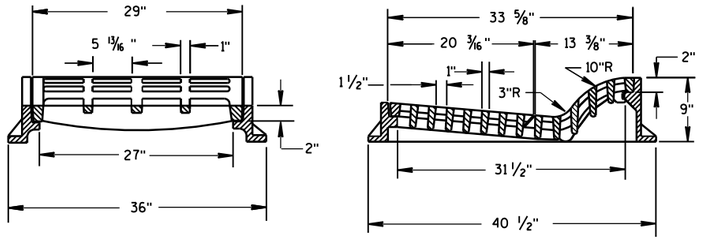
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

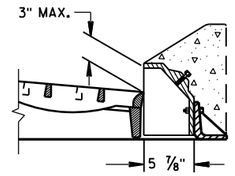
S.D.D. 8 A 5-19b





TYPE "F"

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



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

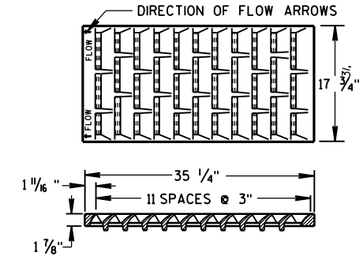
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

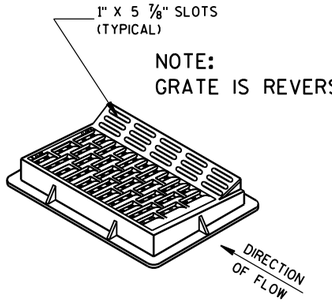
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

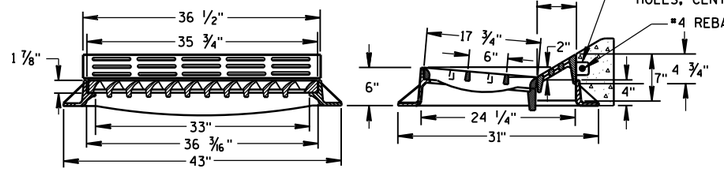
GENERAL NOTES

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

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



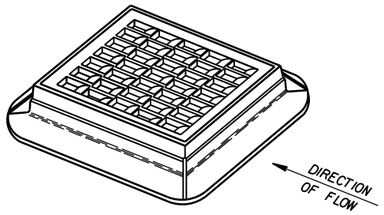


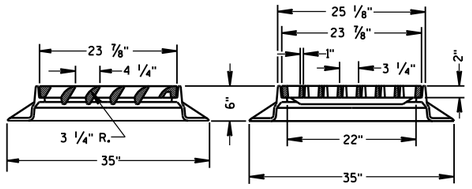


TYPE "HM"

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

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





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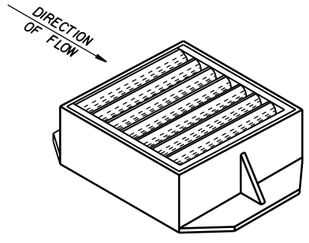

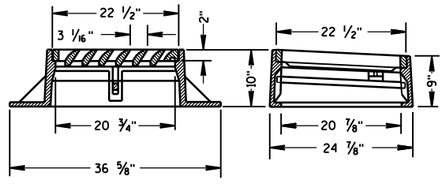

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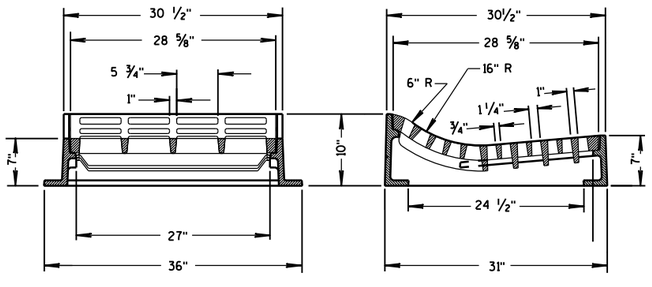
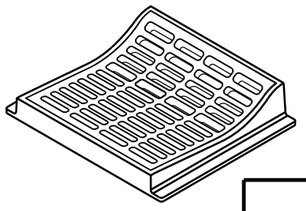




TYPE "T"

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

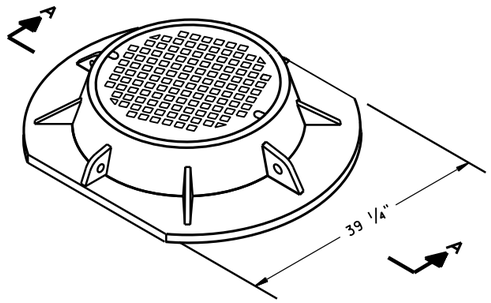
APPROVED
11/27/2013
DATE

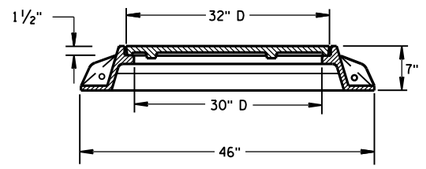
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

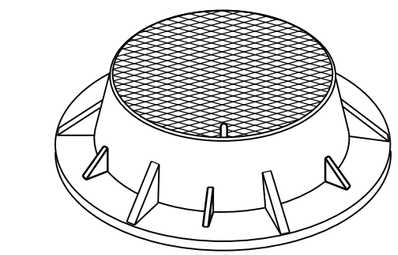
6

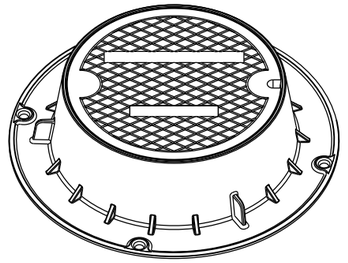
S.D.D. 8 A 5-19c

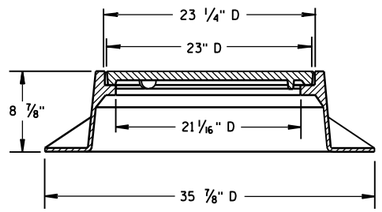


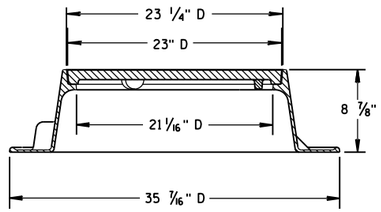


SECTION A-A
TYPE "K"









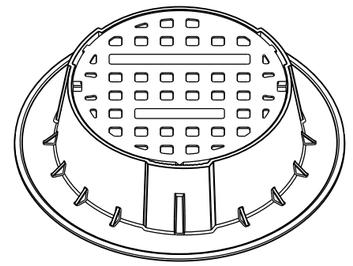
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

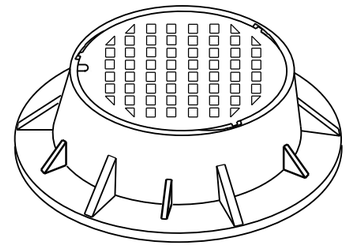
GENERAL NOTES

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.

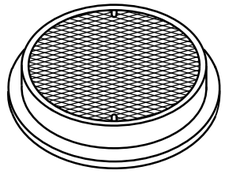
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

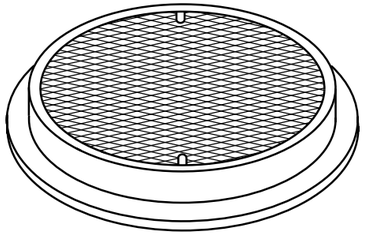
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

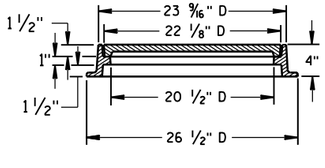




TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE







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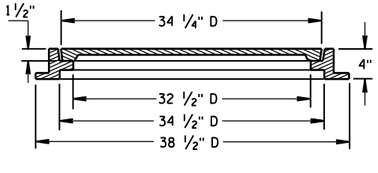
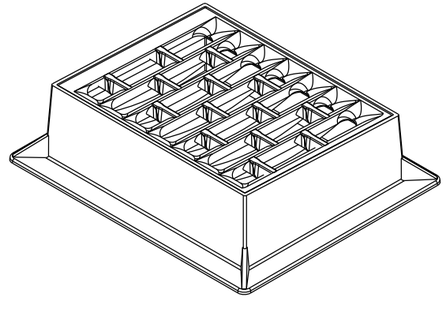
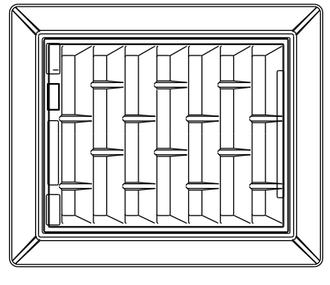
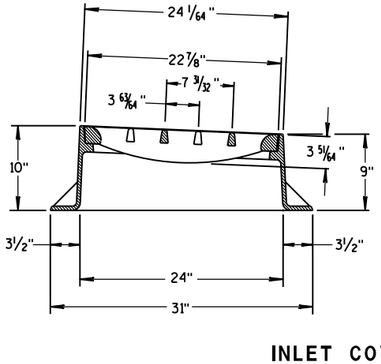
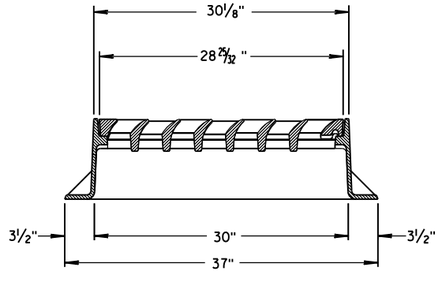


TYPE "M"









INLET COVER TYPE "BW"

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

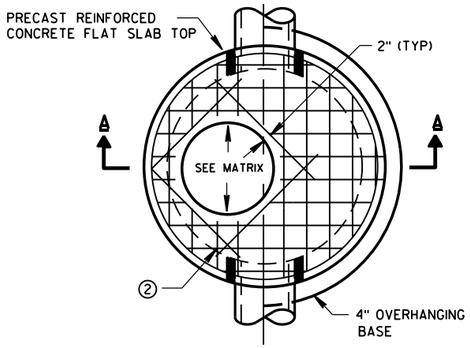
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

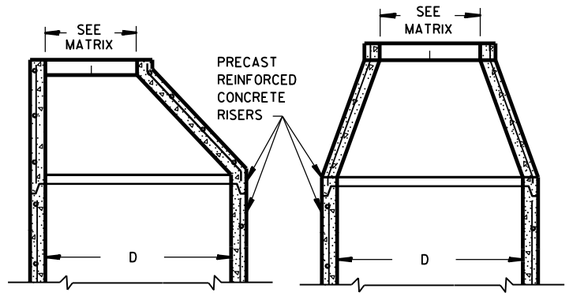
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

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

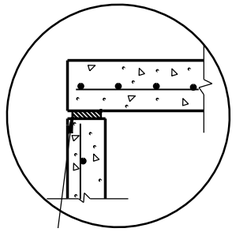


PLAN VIEW CIRCULAR OPENING

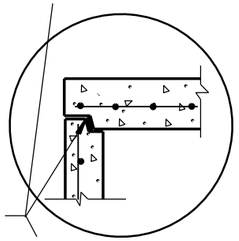


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

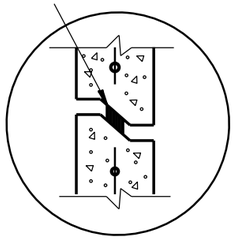


TOP WITH PLAIN END JOINT



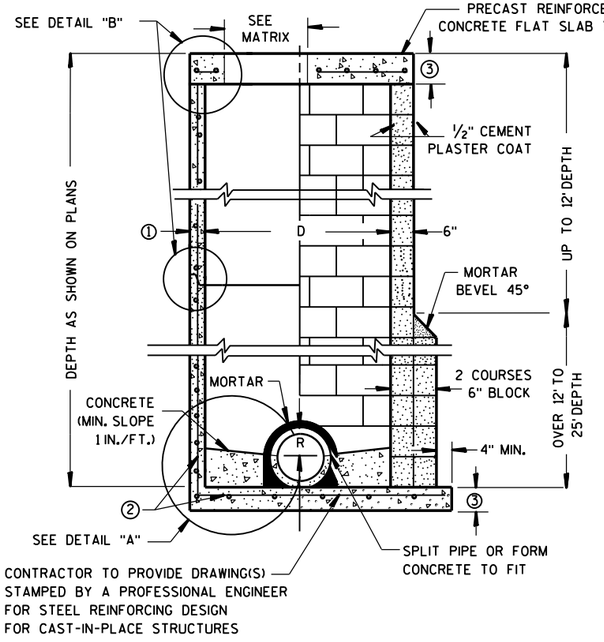
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



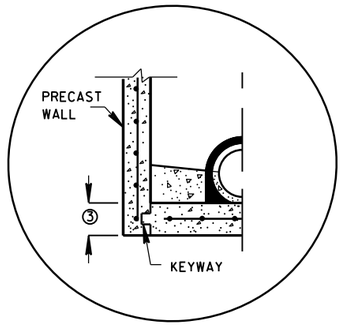
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

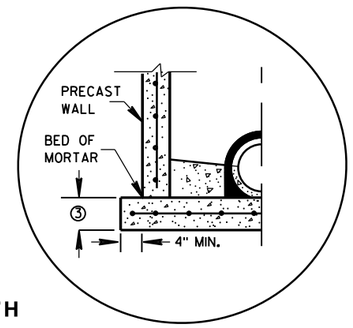


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

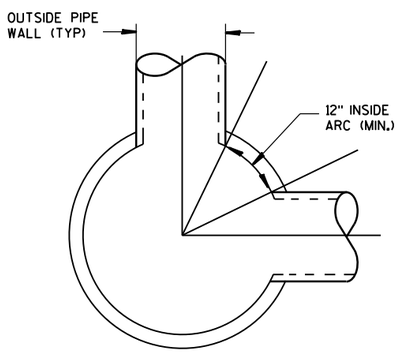


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

MANHOLE COVER OPENING MATRIX

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

PIPE MATRIX

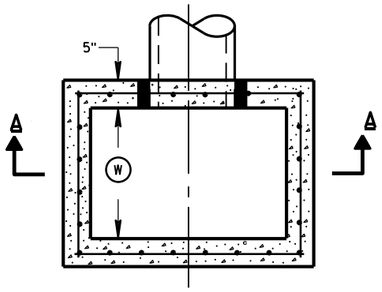
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

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

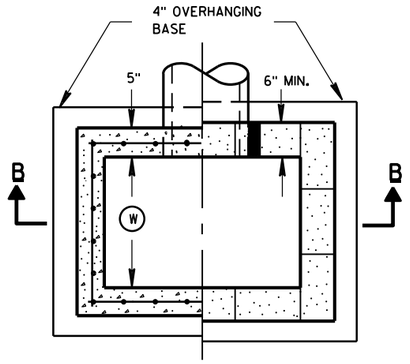
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

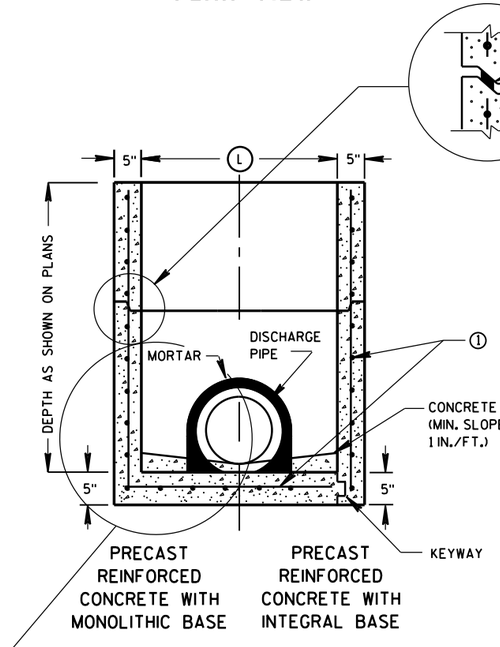
6
S.D.D. 8 B 9-1



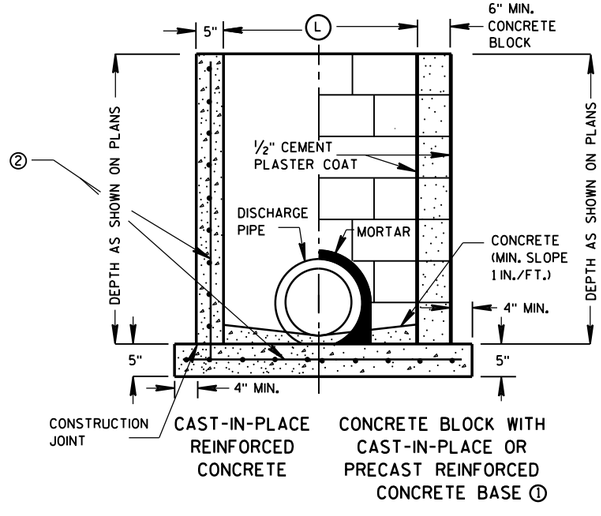
PLAN VIEW



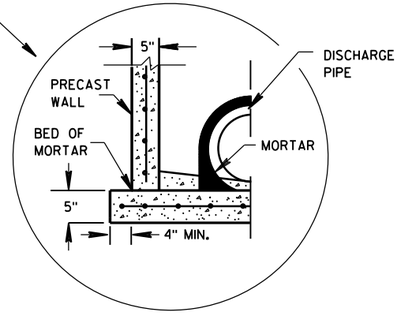
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

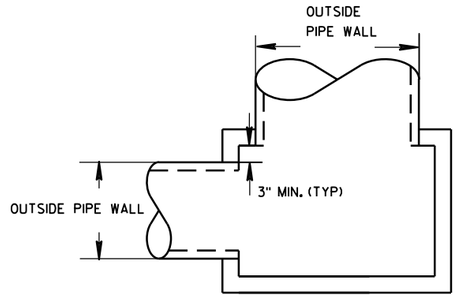
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

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

PIPE MATRIX

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



DETAIL "A"

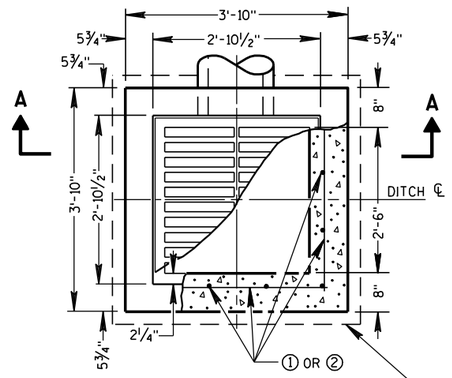
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

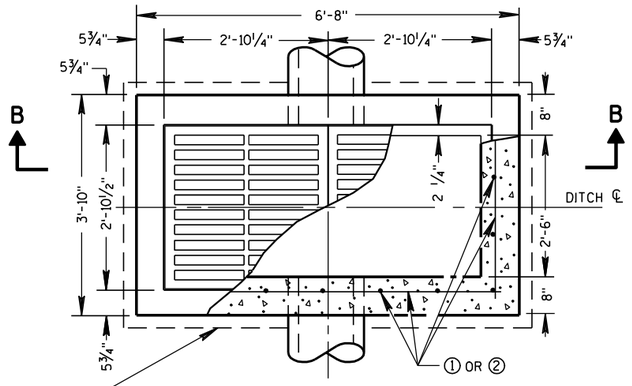
APPROVED
6/5/2012
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DE
ENGINEER

6
S.D.D. 8 C 7-1

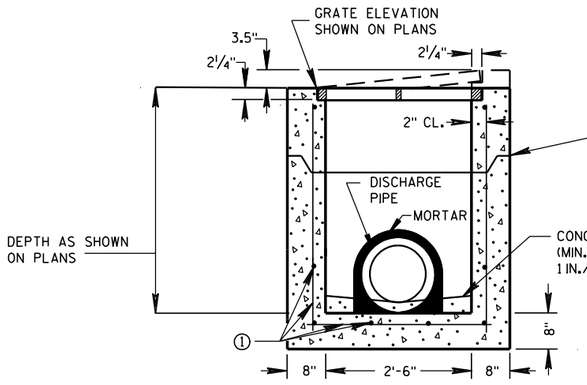


PLAN VIEW

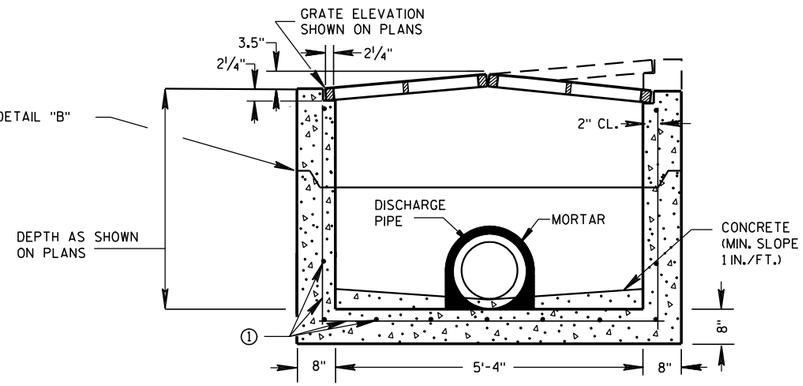


PLAN VIEW

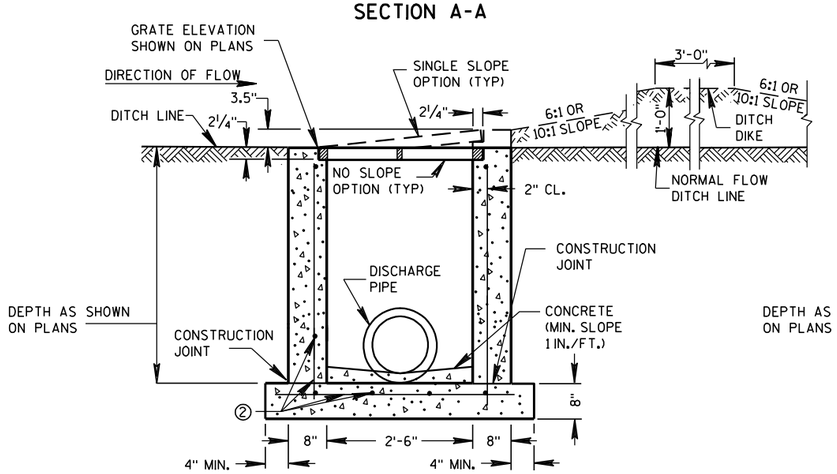
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



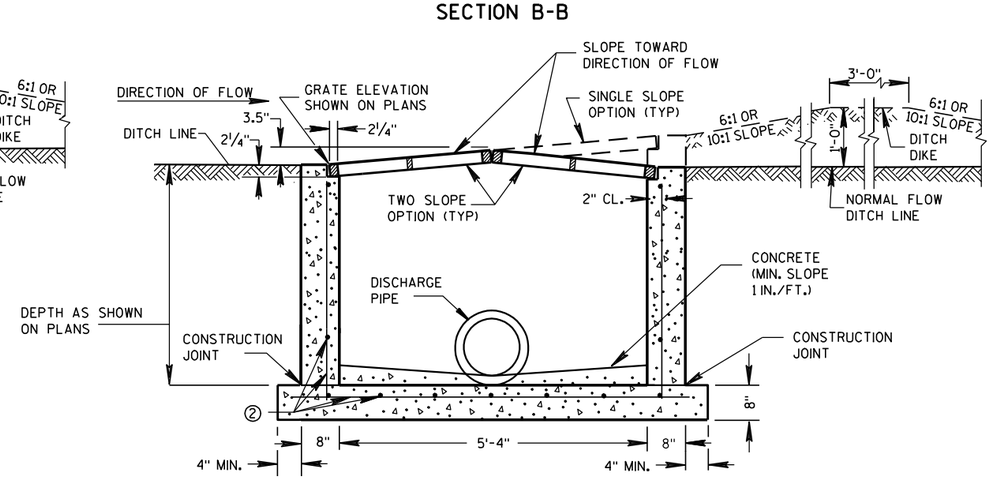
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

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

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

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

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

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

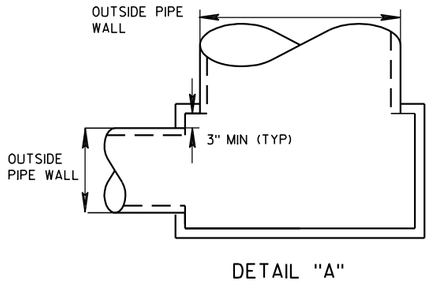
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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

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

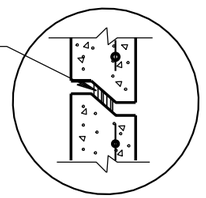
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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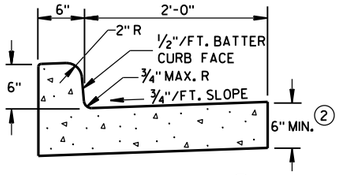
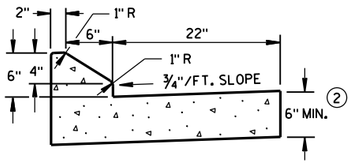
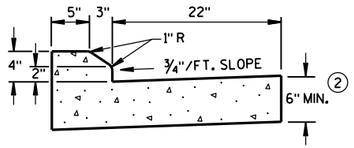
S.D.D. 8 C 8-1



TYPES A & D ①

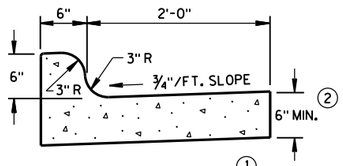


6" SLOPED CURB TYPES G & J ①

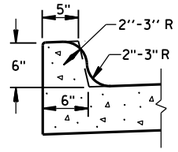


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

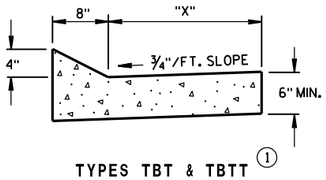


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

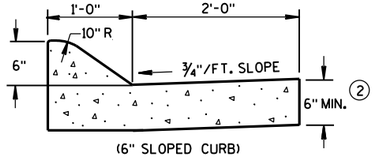
CONCRETE CURB & GUTTER 30"



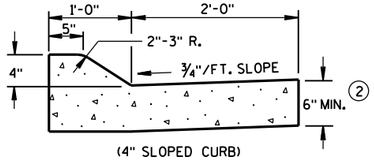
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

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

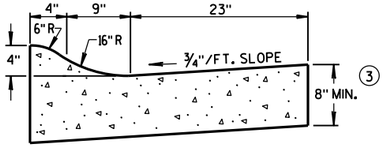


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ① ④

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

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

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

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

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

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

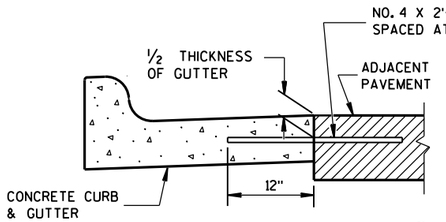
① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

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

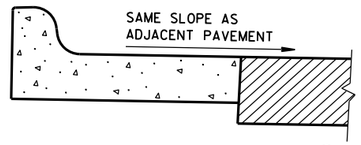
③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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

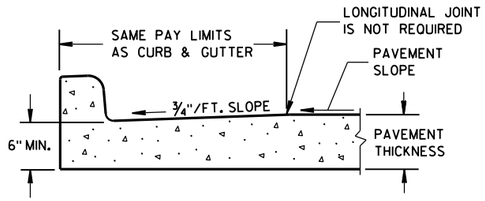
⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



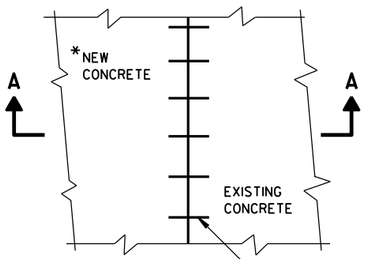
TYPICAL TIE BAR LOCATION ①



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

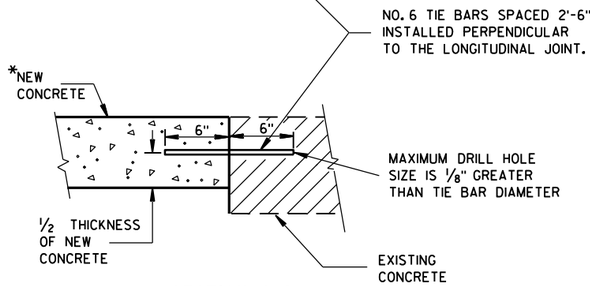


PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



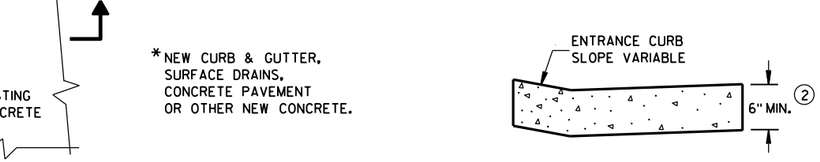
PLAN VIEW

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

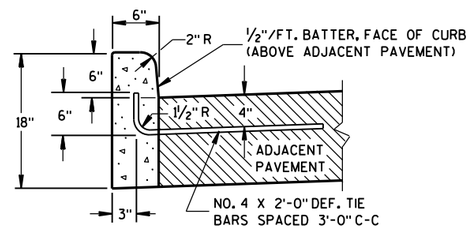


SECTION A-A

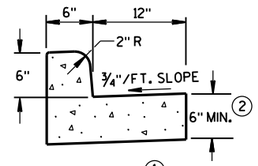
TIE BARS DRILLED
INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

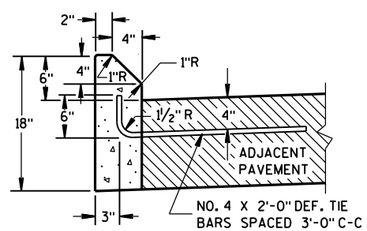


① TYPES A & D

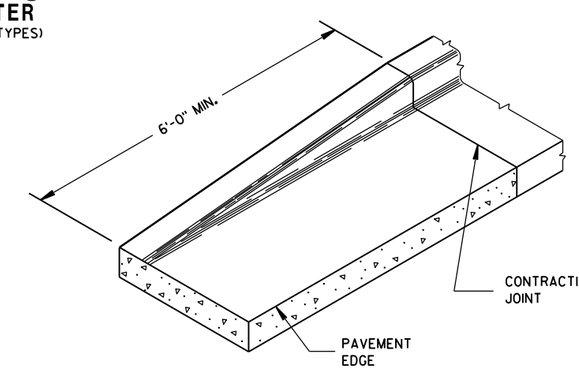


① TYPES A & D

CONCRETE CURB & GUTTER 18"



① TYPES G & J



END SECTION CURB & GUTTER

CONCRETE CURB

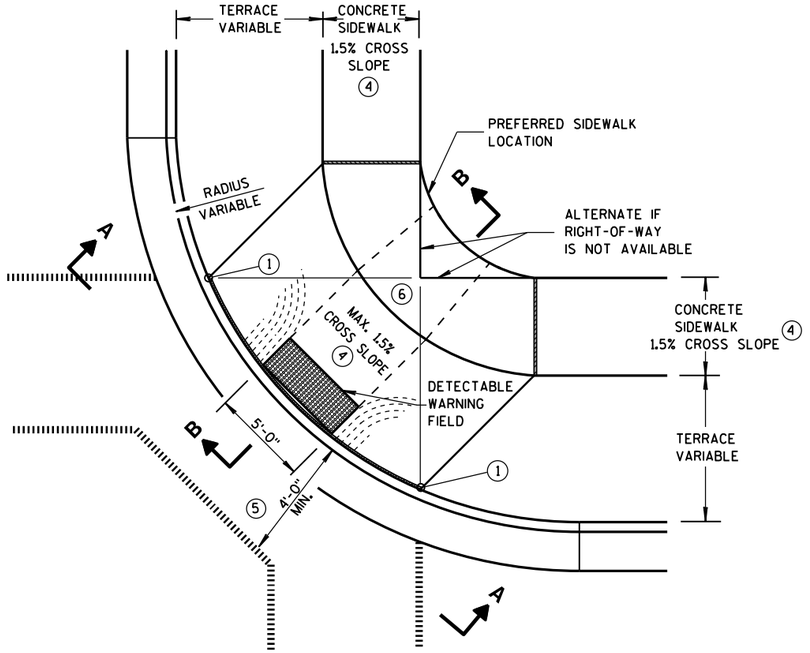
CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6

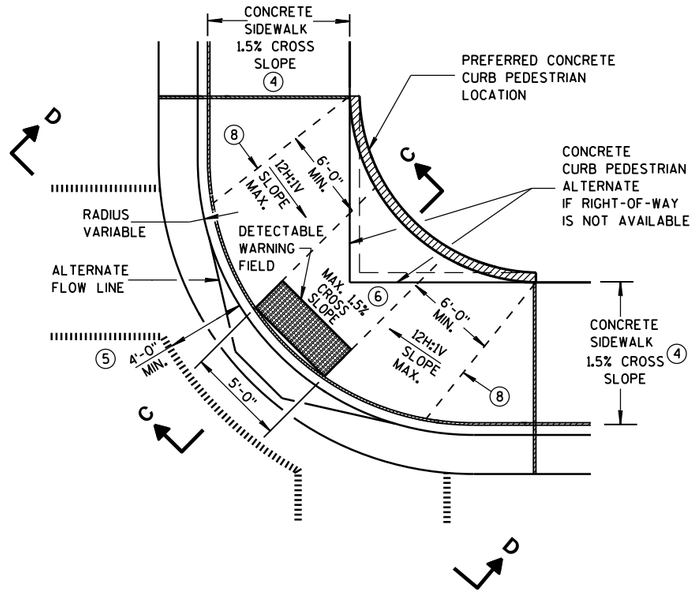
S.D.D. 8 D 1-18



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

GENERAL NOTES

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

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

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

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

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

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

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

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

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

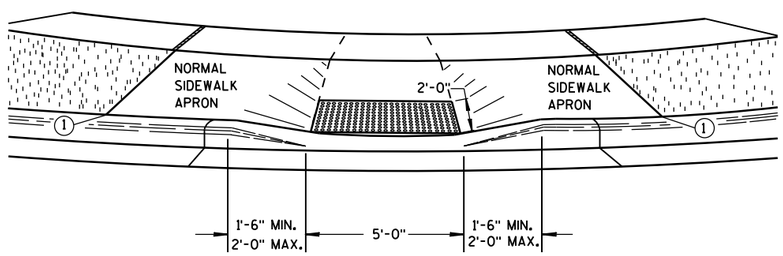
(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

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

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

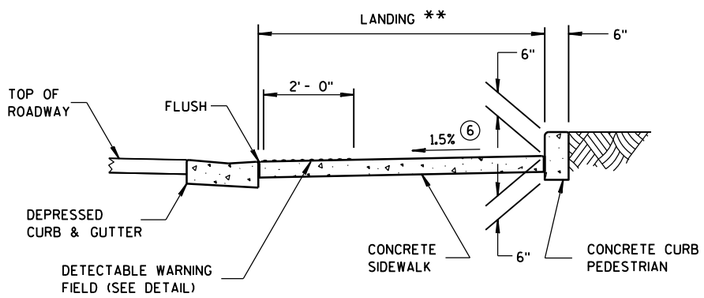
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.



VIEW A-A

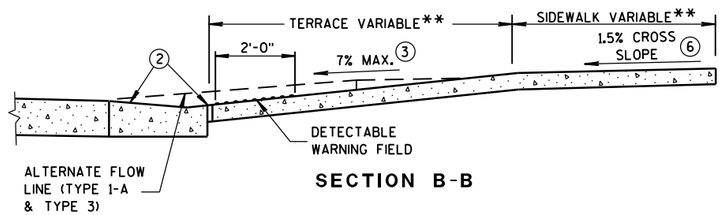
** WIDTH SHOWN ELSEWHERE IN THE PLANS



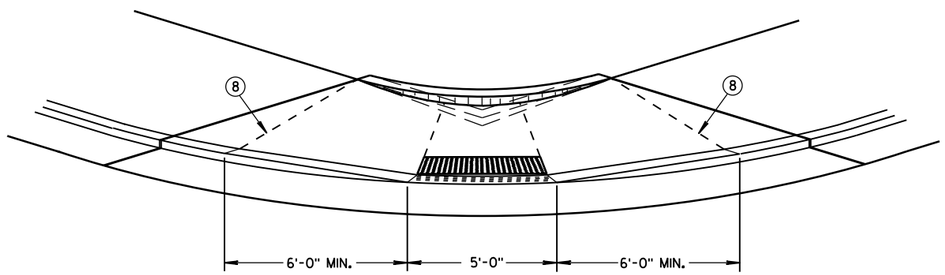
SECTION C-C

LEGEND

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



SECTION B-B



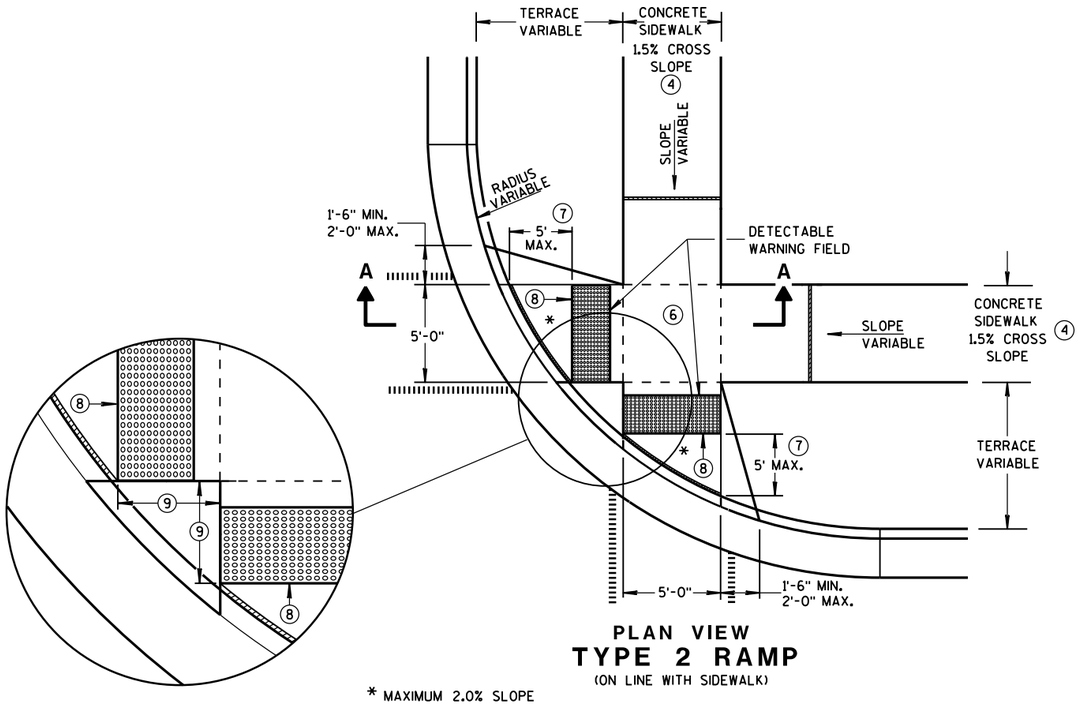
VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 8 D 5-16a

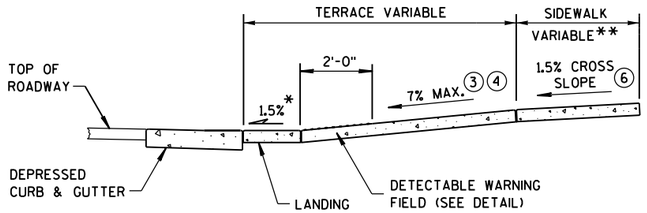


PLAN VIEW

TYPE 2 RAMP

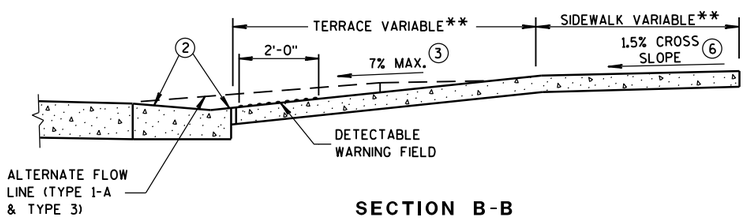
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B

GENERAL NOTES

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

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

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (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 X 5 FEET (MINIMUM 4 FEET X 4 FEET).

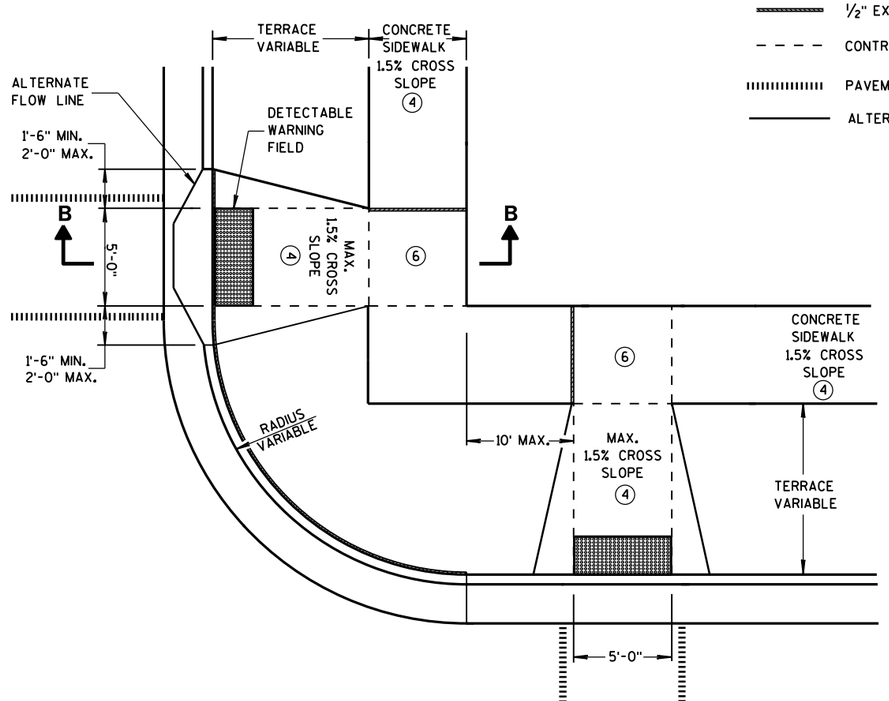
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS 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. 2" MINIMUM CURB HEIGHT.

LEGEND

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



PLAN VIEW

TYPE 3 RAMP

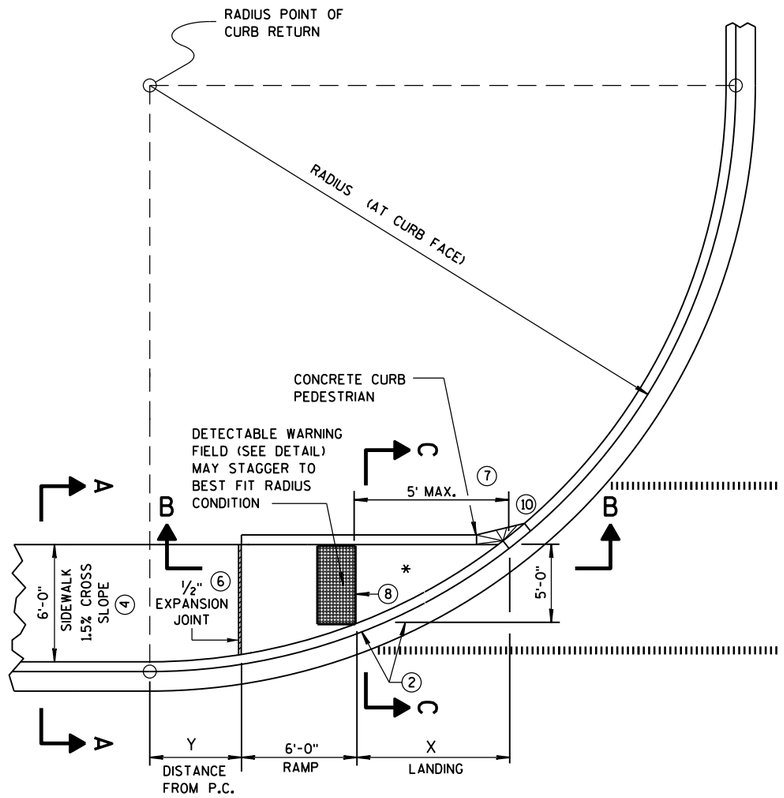
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

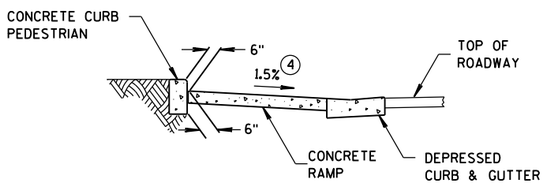
S.D.D. 8 D 5-16b



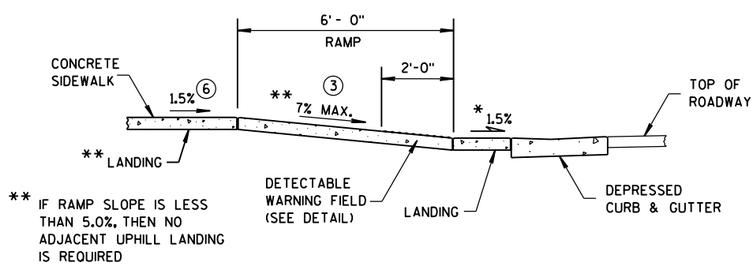
CURB RAMP TYPE 4A
PLAN VIEW

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

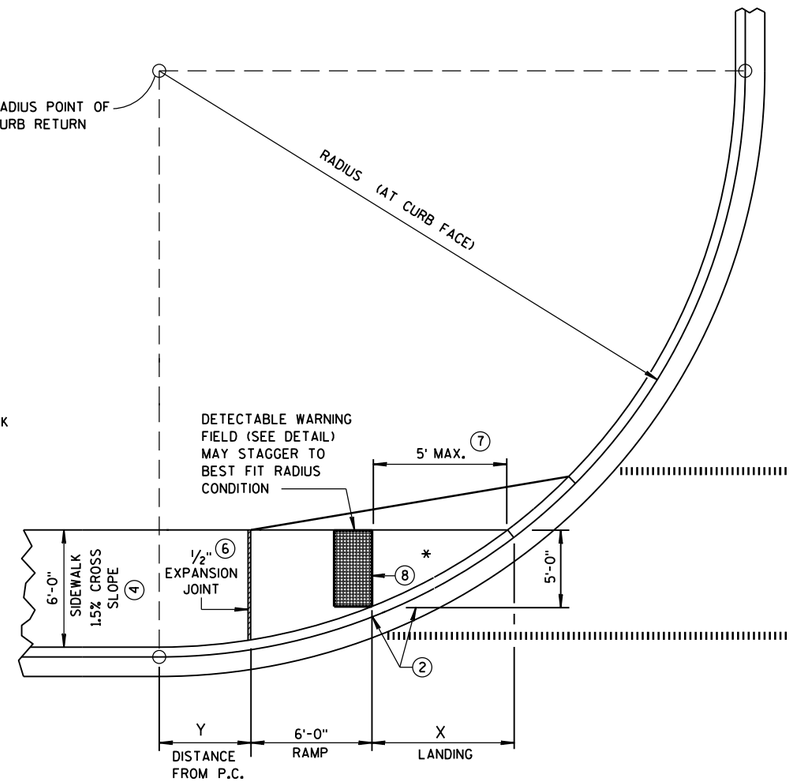
INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION C-C FOR TYPE 4A

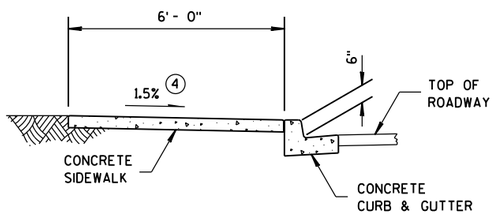


SECTION B-B FOR TYPE 4A



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

CURB RAMP TYPE 4A1
PLAN VIEW



SECTION A-A FOR TYPE 4A

GENERAL NOTES

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

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 DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

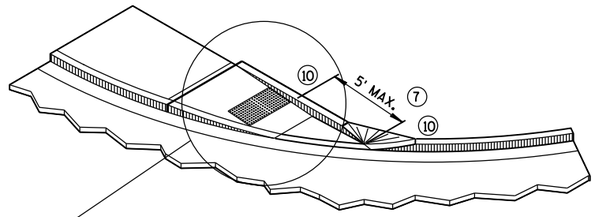
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

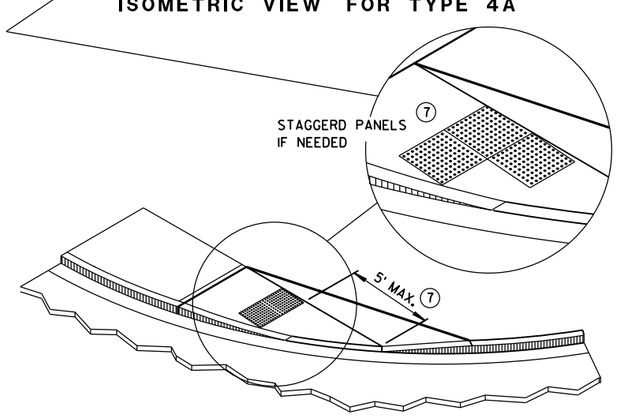
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

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



ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

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

CURB RAMPS
TYPES 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO 374

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S.D.D. 8 D 5-16c

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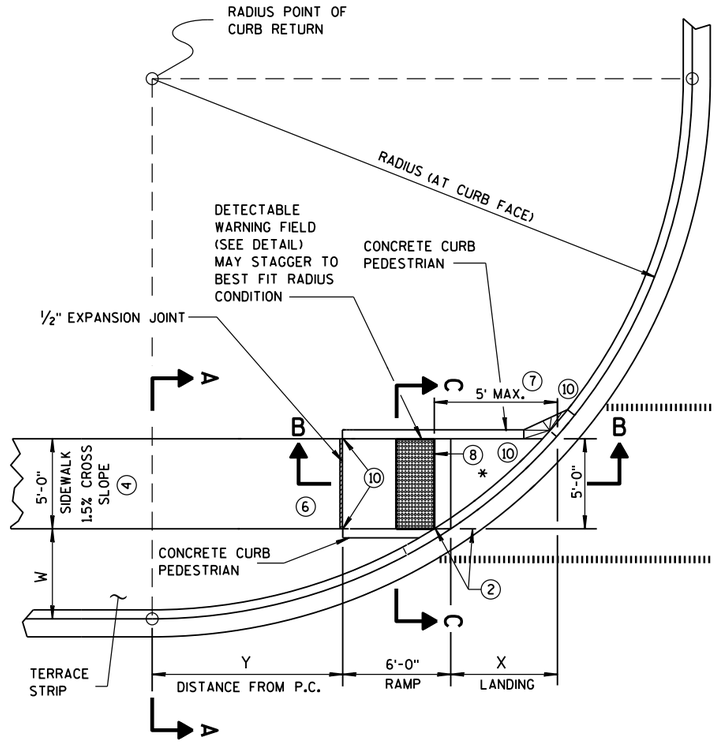
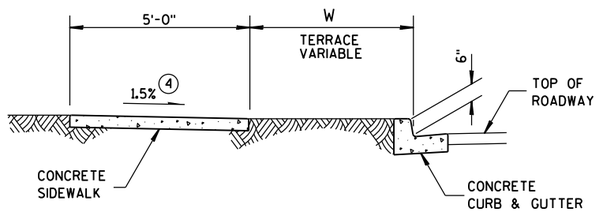
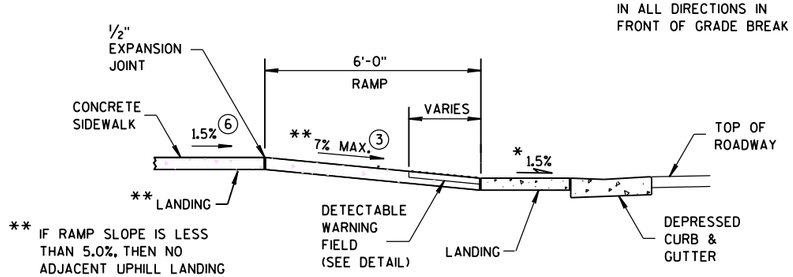
S.D.D. 8 D 5-16c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

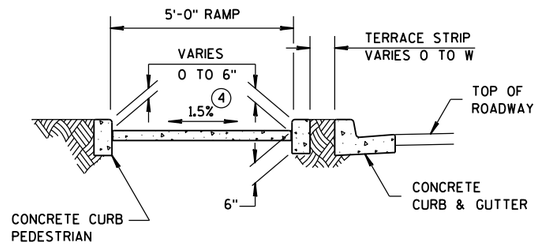
SECTION B-B FOR TYPE 4B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)



SECTION C-C FOR TYPE 4B

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

INTERMEDIATE RADII CAN BE INTERPOLATED

GENERAL NOTES

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

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 DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

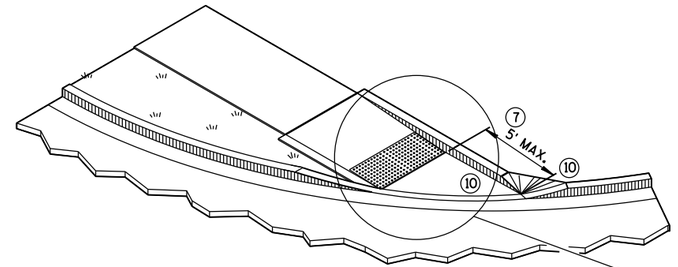
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

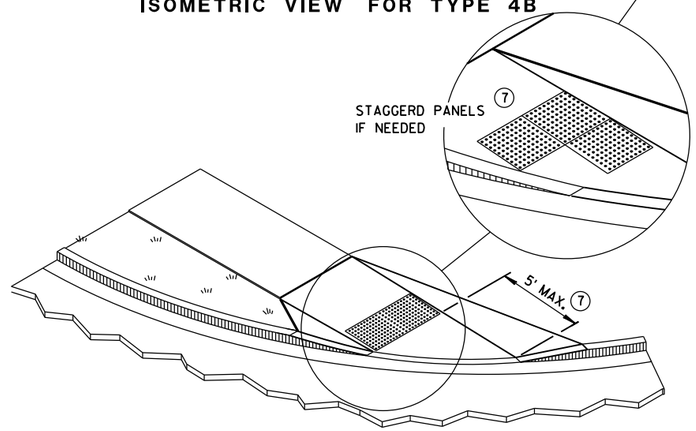
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

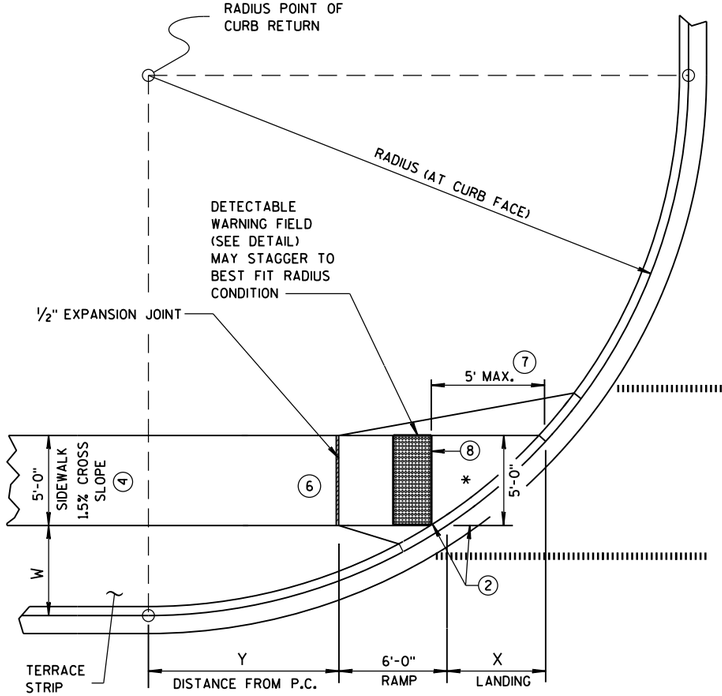
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1



CURB RAMP TYPE 4B1
PLAN VIEW

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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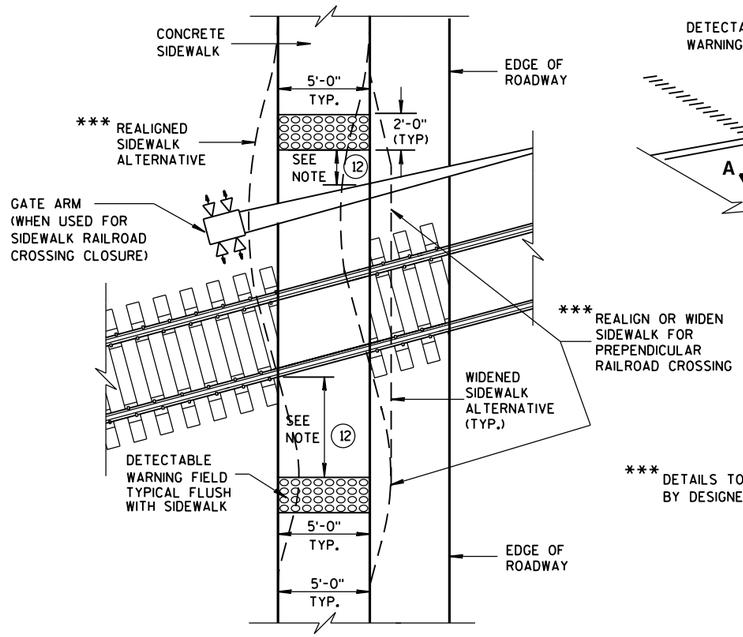
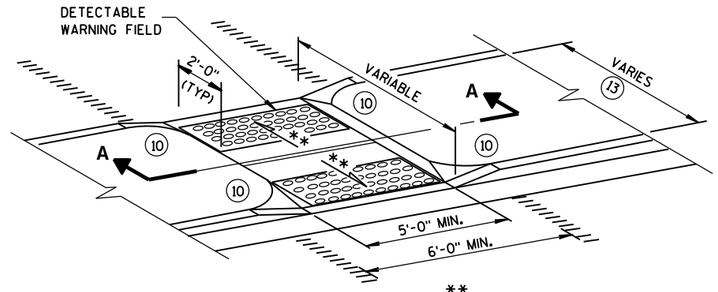
S.D.D. 8 D 5-16d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING

*** DETAILS TO BE DETERMINED BY DESIGNER



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

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

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (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.

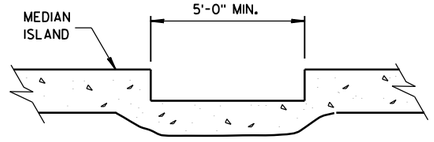
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

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

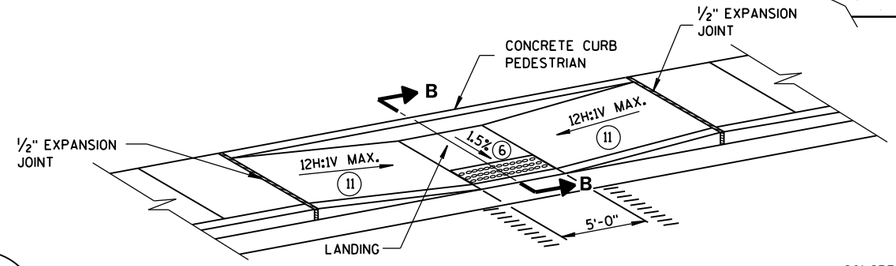
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(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 IF MEDIAN WIDTH BETWEEN BACK OF CURBS IS LESS THAN 6 FEET.



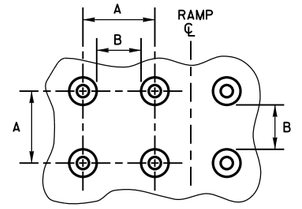
SECTION A-A



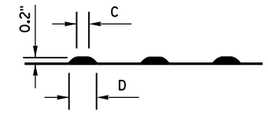
MID-BLOCK CROSSING
TYPE 7A

	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.

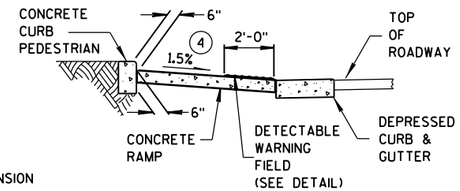


PLAN VIEW

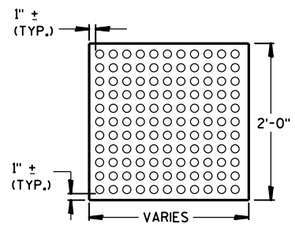


ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



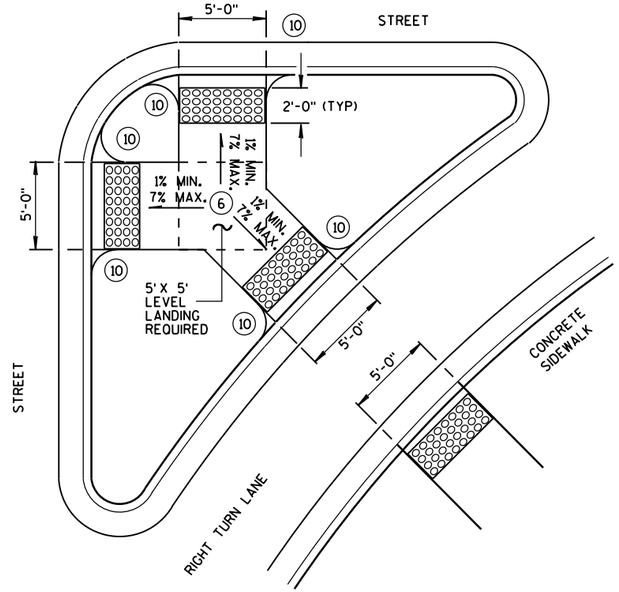
SECTION B-B



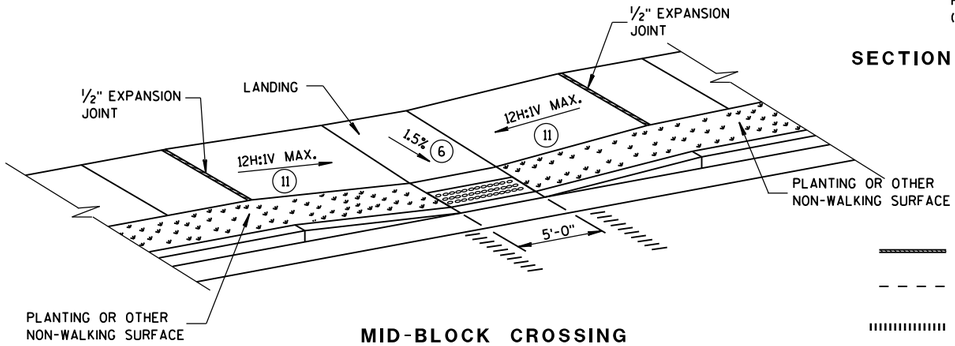
PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)

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



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

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

LEGEND

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS [illegible] ENGINEER
FHWA

6

S.D.D. 8 D 5-16e

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:

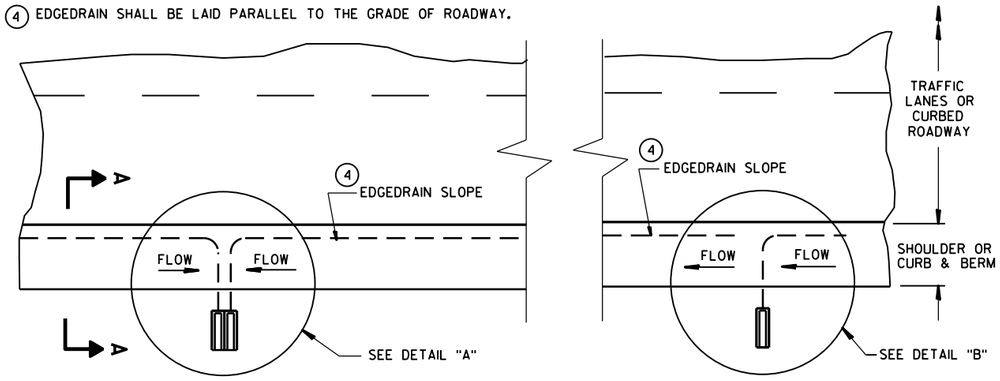
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

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.

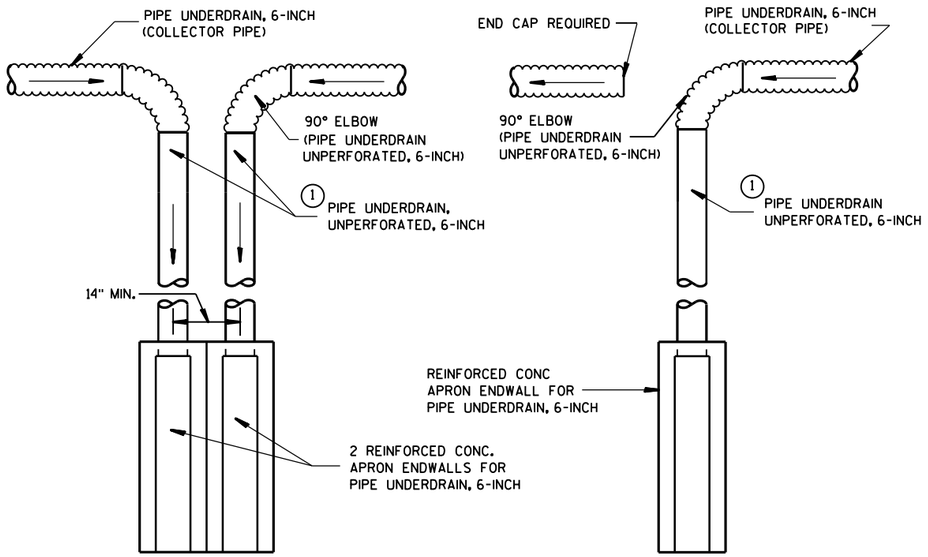
(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS

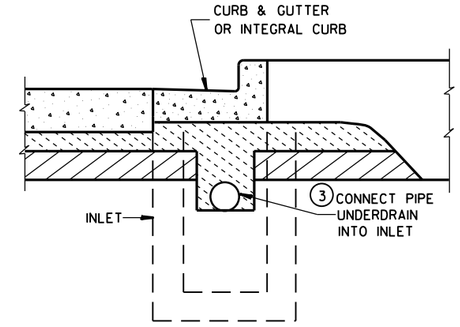
(EDGEDRAIN OUTLETS TO ROADSIDE)(2)



DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS

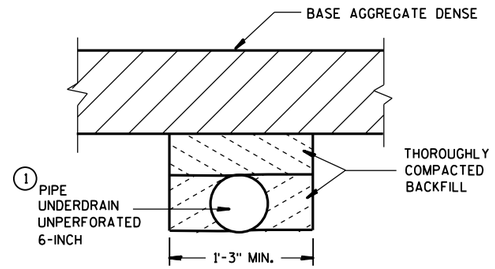
DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



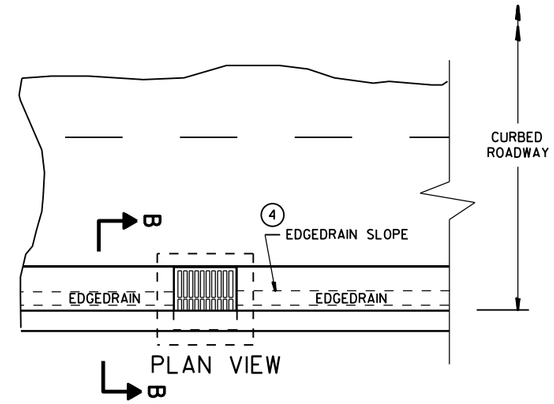
SECTION B-B

URBAN CROSS SECTION



SECTION C-C

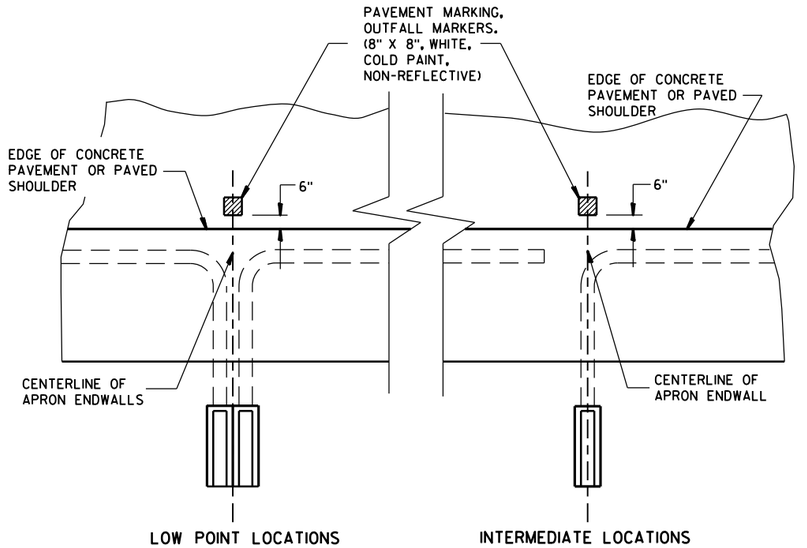
(TRENCH FOR OUTFALL PIPE)



PLAN VIEW

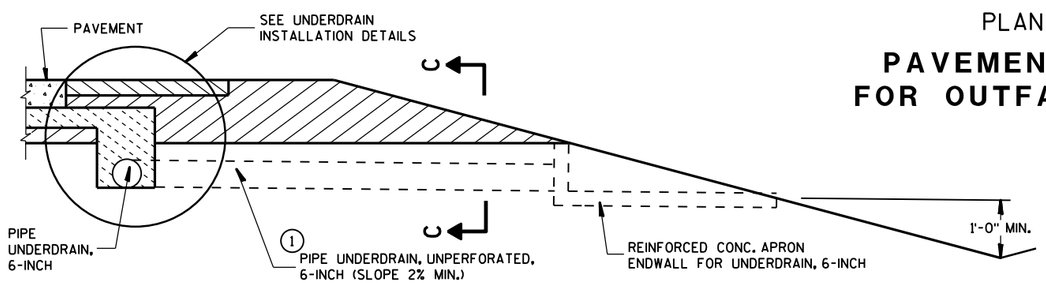
ROADWAY WITH CURBS

(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)



PLAN VIEW

PAVEMENT MARKING FOR OUTFALL MARKERS



SECTION A-A

RURAL CROSS SECTION

EDGEDRAIN OUTLET AND OUTFALL MARKERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 377

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

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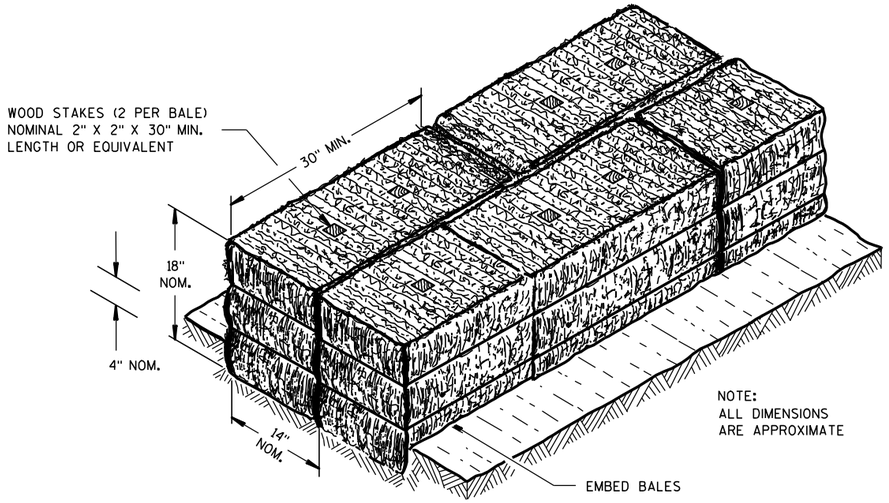
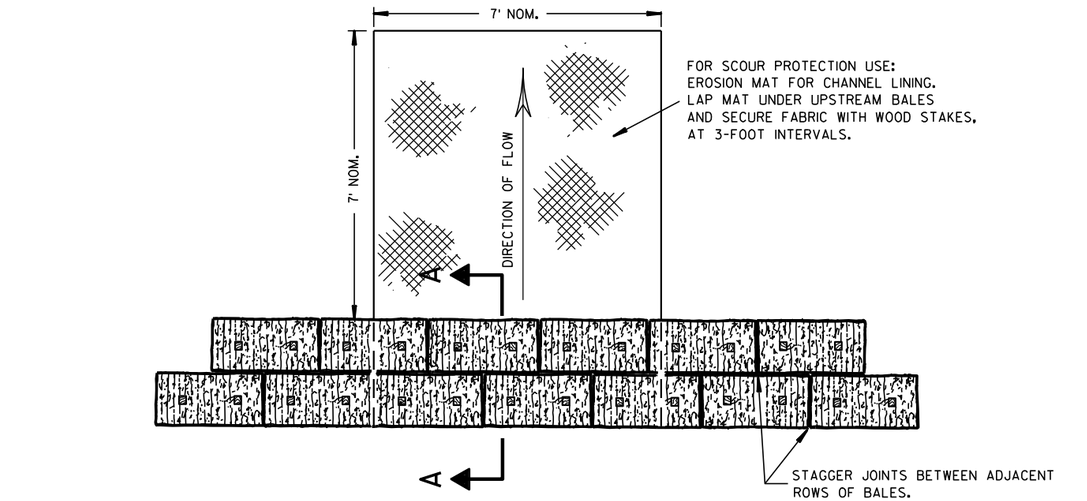
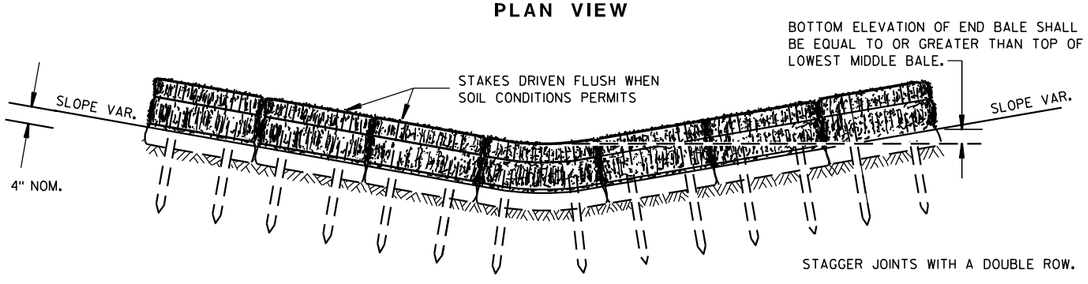
S.D.D. 8 D 15-5a



SECTION A-A



PLAN VIEW



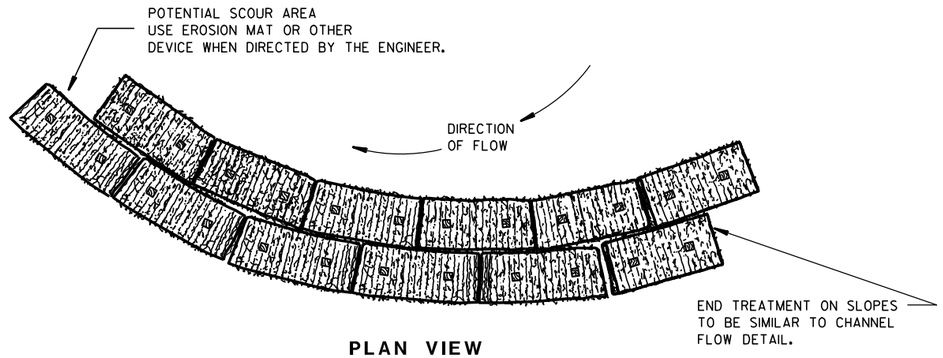
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

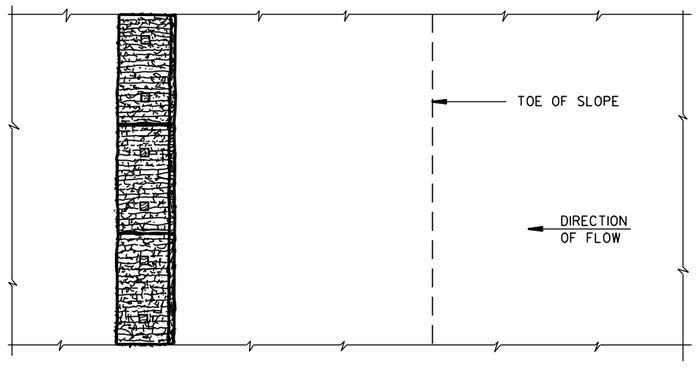
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

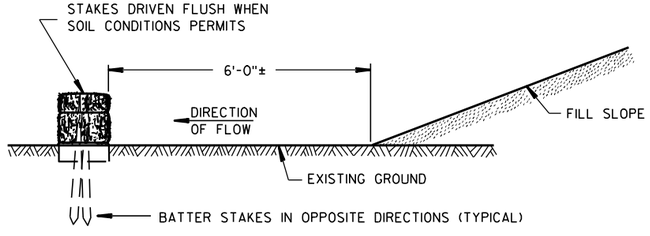


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

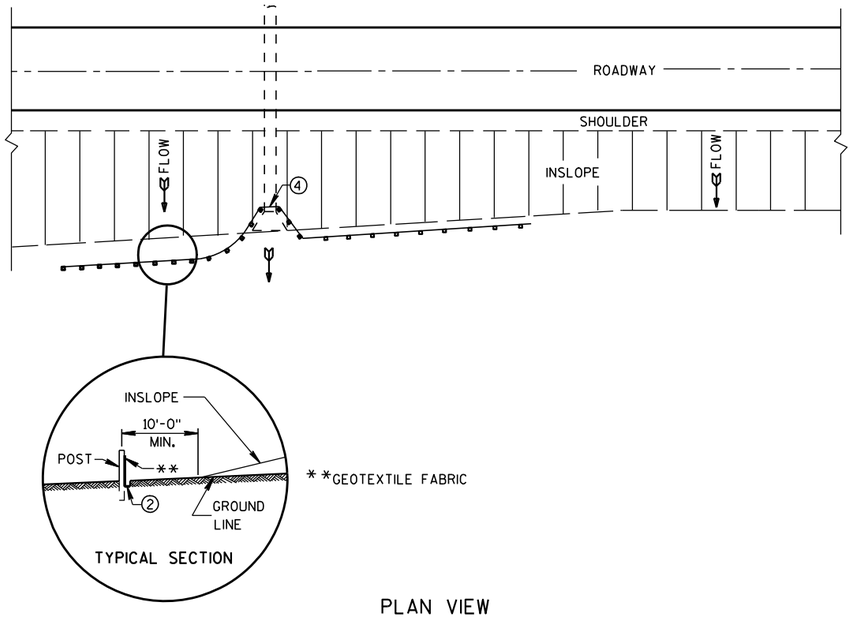
6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

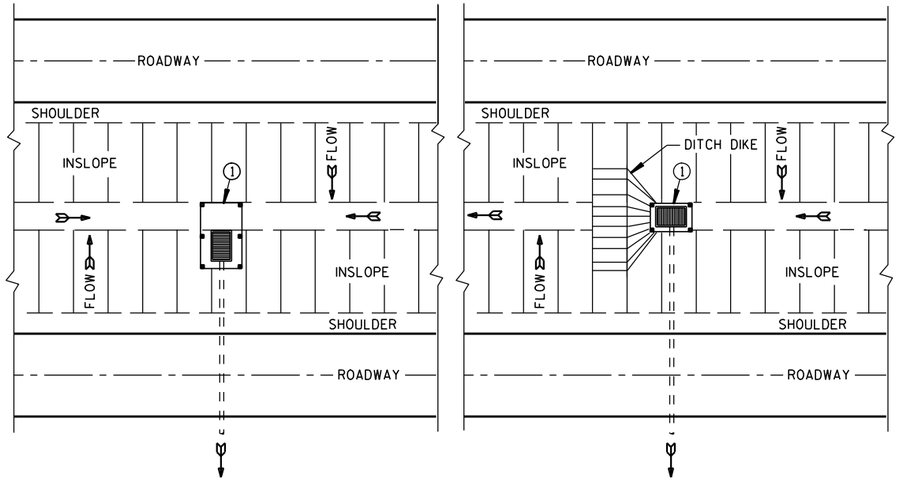
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



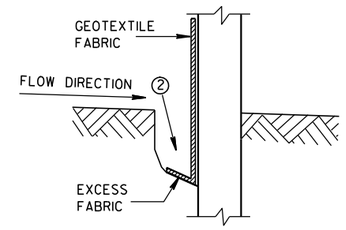
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

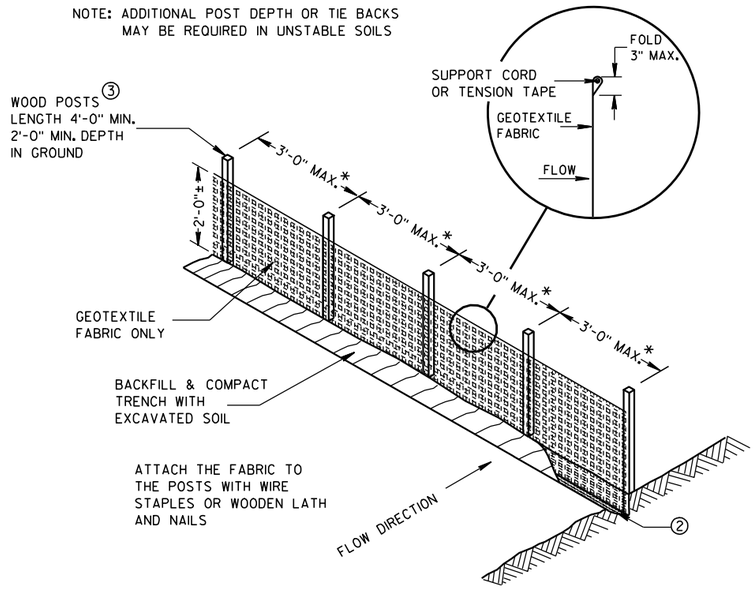
GENERAL NOTES

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

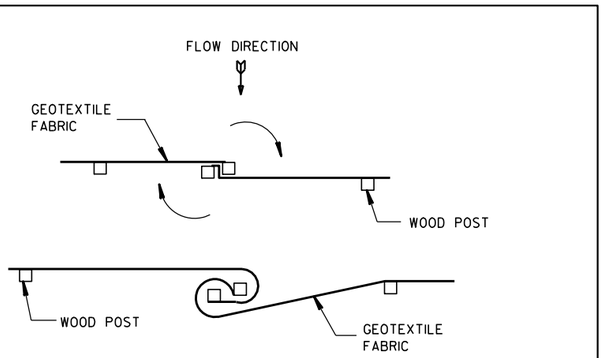
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL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



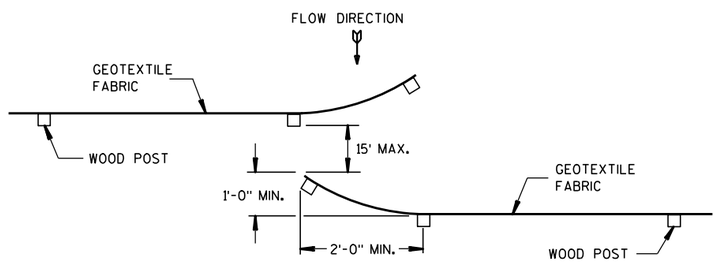
TRENCH DETAIL



SILT FENCE

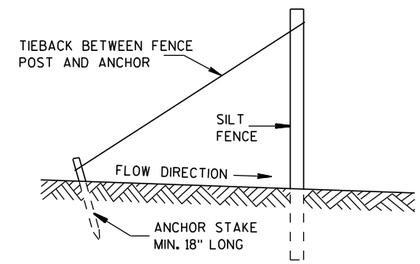


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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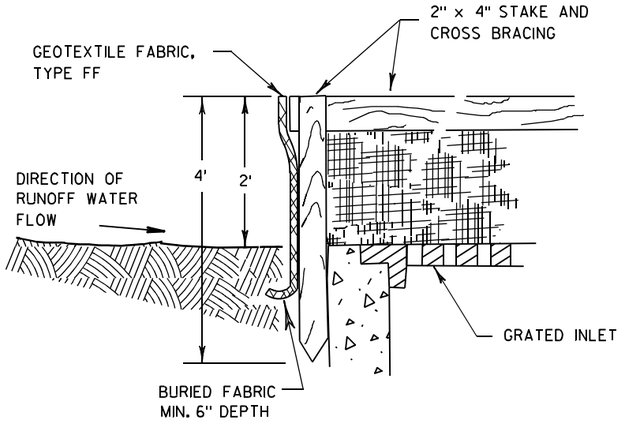
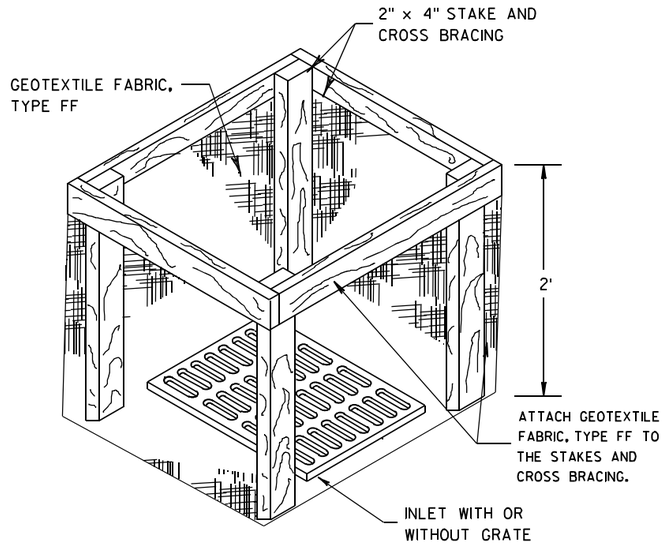
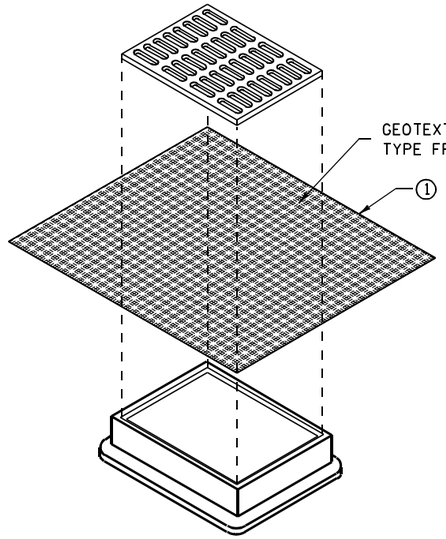
S.D.D. 8 E 9-6



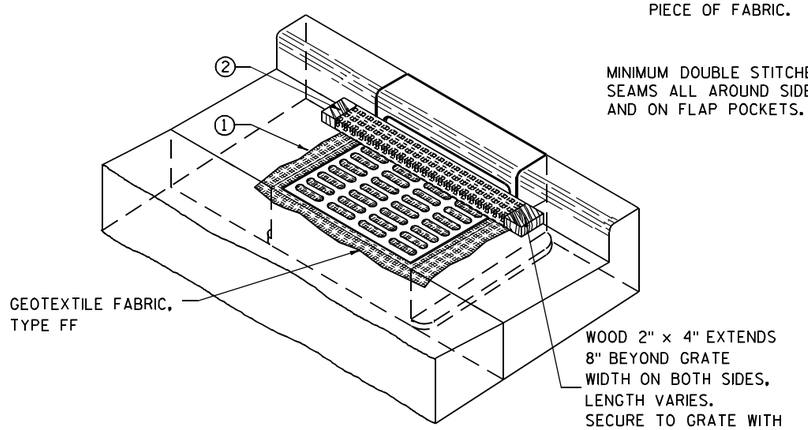


INLET PROTECTION, TYPE A

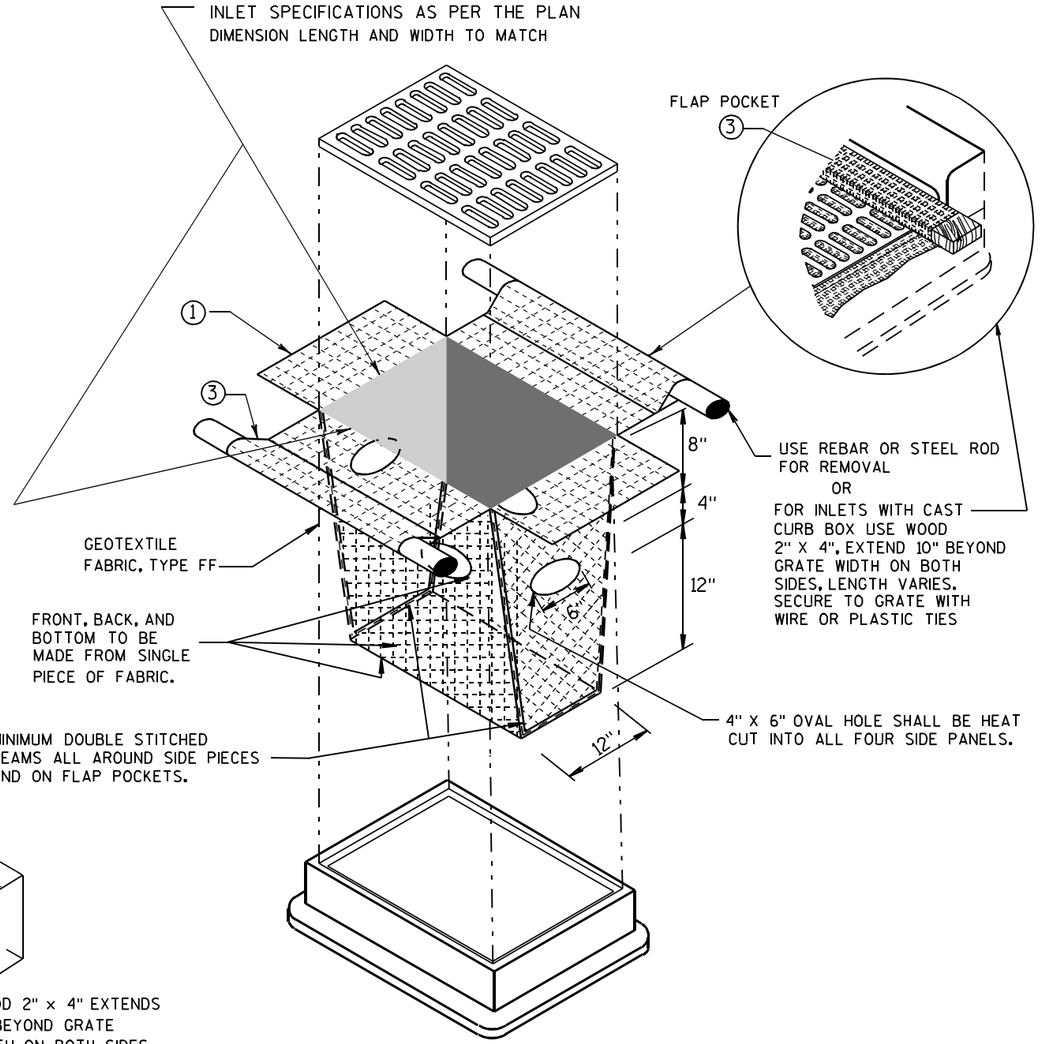


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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

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S.D.D. 8 E 10-2

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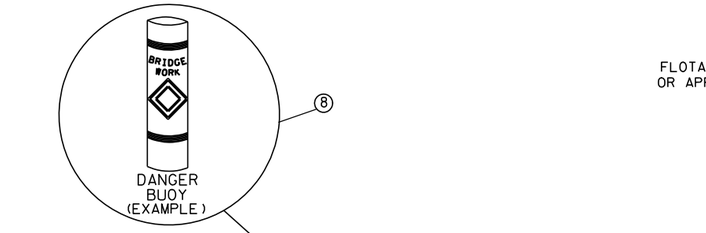
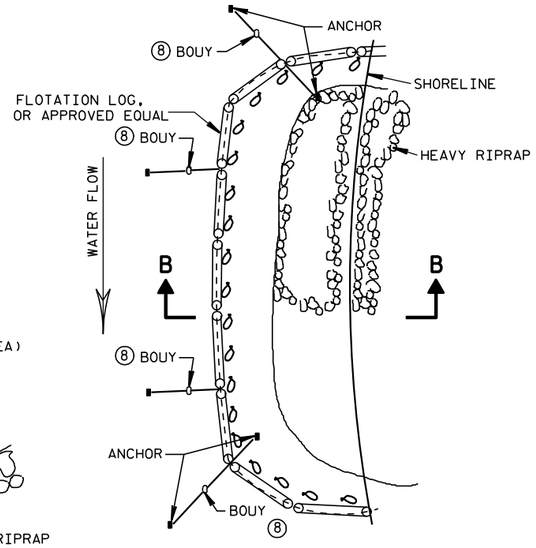
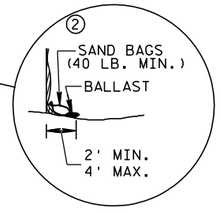
S.D.D. 8 E 10-2

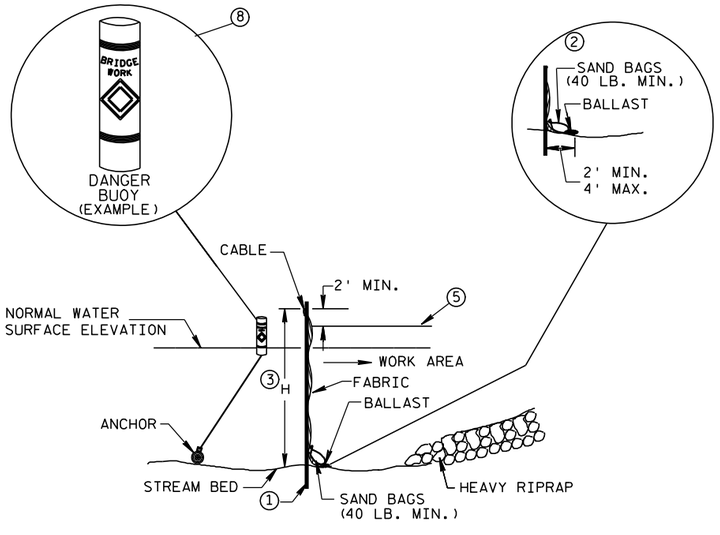


SECTION B-B

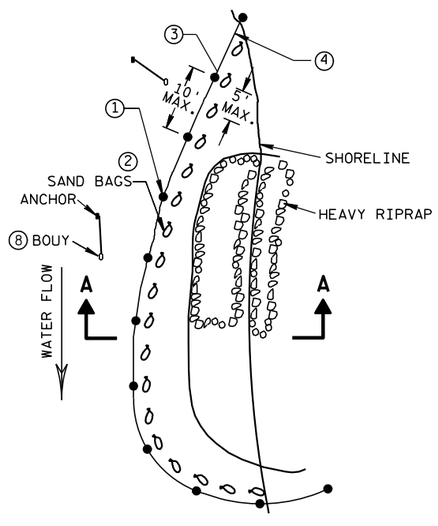




TURBIDITY BARRIER FLOAT ALTERNATIVE
CAUTION - SEE NOTE 6



SECTION A-A



PLAN VIEW

TURBIDITY BARRIER STANDARD POST INSTALLATION

TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

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

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.

② SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.

③ WHEN BARRIER HEIGHT, H, EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.

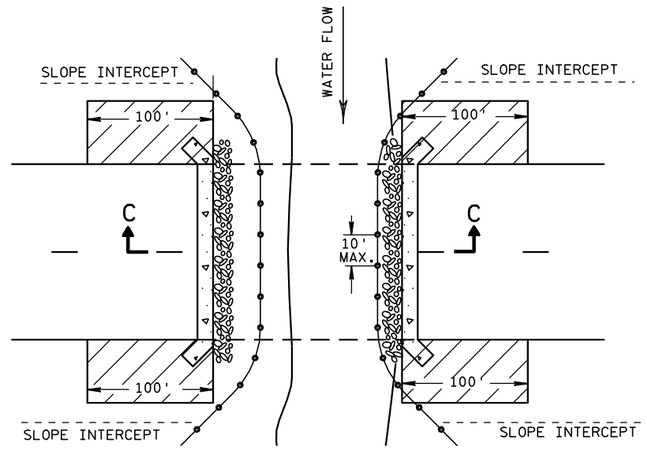
④ IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.

⑤ ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE O2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.

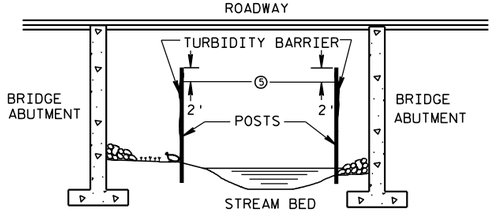
⑥ FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.

⑦ ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.

⑧ USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

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 11-2

6

S.D.D. 8 E 11-2

METAL APRON ENDWALLS

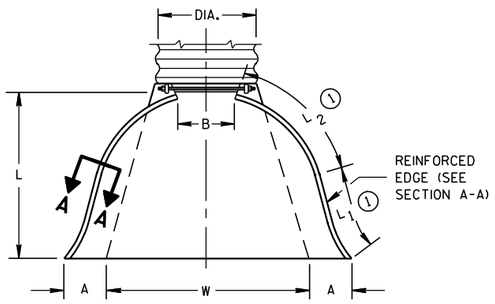
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

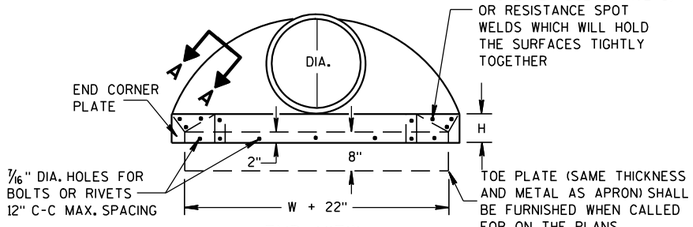
REINFORCED CONCRETE APRON ENDWALLS

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

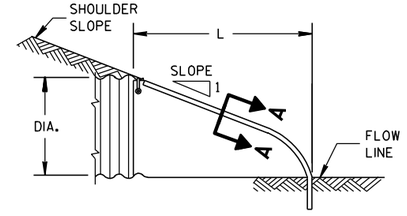
*MINIMUM
**MAXIMUM



PLAN VIEW

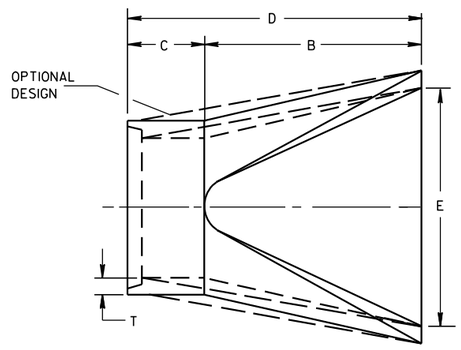


END VIEW

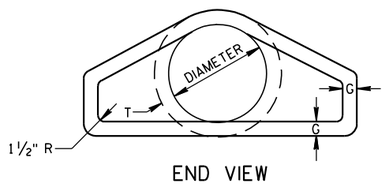


SIDE ELEVATION

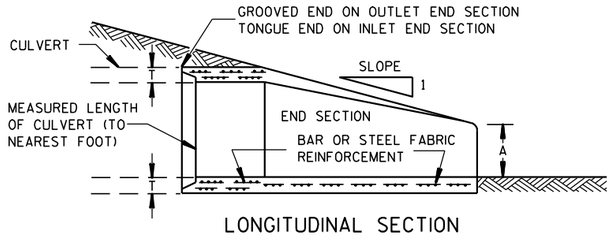
METAL ENDWALLS



PLAN

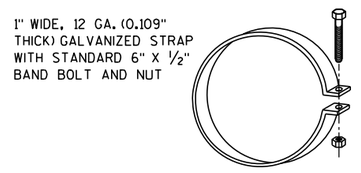


END VIEW



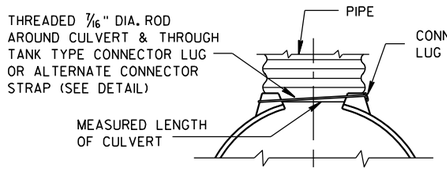
LONGITUDINAL SECTION

CONCRETE ENDWALLS

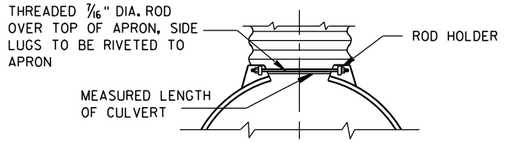


ALTERNATE FOR TYPE 1 CONNECTION

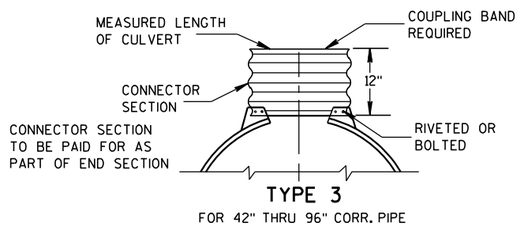
END SECTION CONNECTOR STRAP



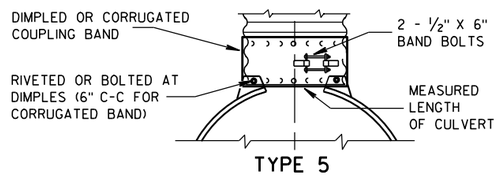
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

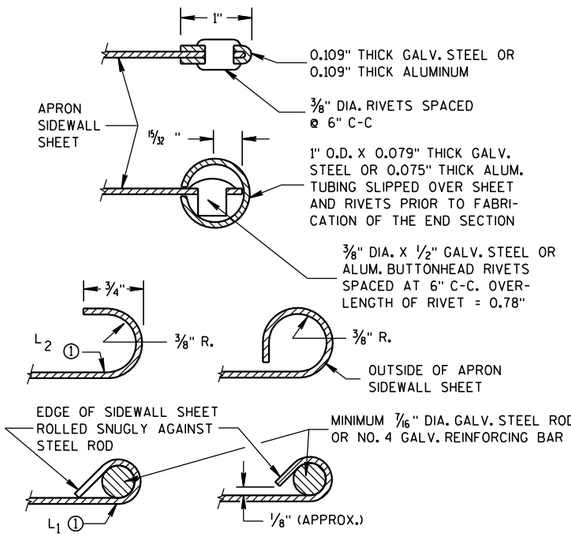
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

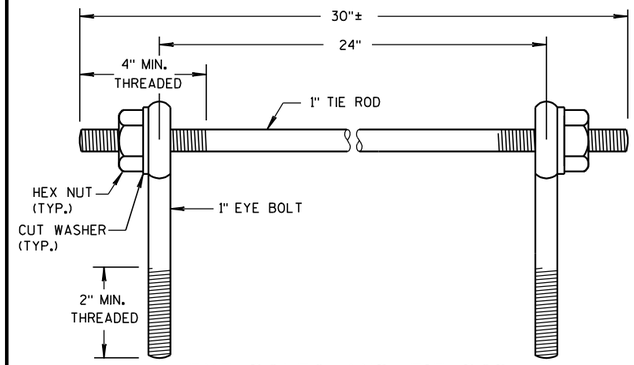
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

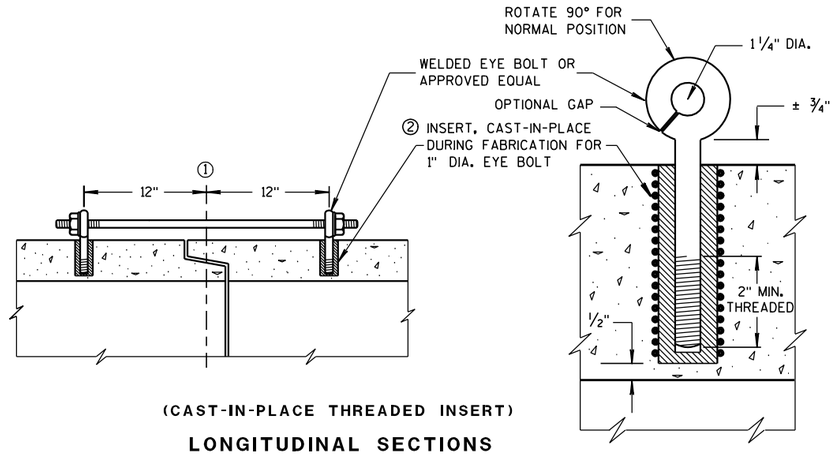
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

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

GENERAL NOTES

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

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

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

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

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

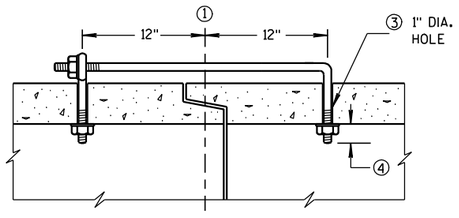
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

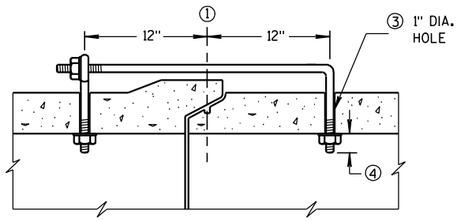
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

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



(TONGUE & GROOVE PIPE)

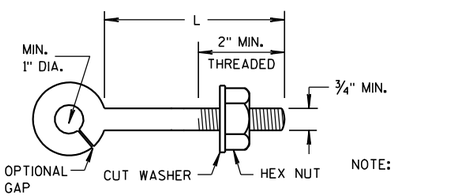


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

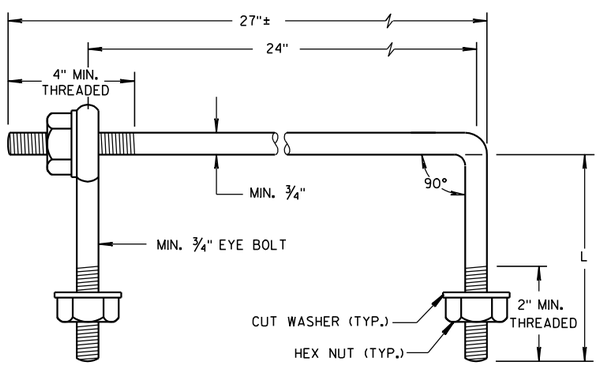
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

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



EYE BOLT AND TIE ROD

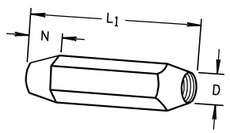
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

ADJUSTABLE TIE ROD TABLE

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

DIMENSIONS SHOWN ARE IN INCHES



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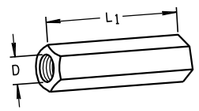
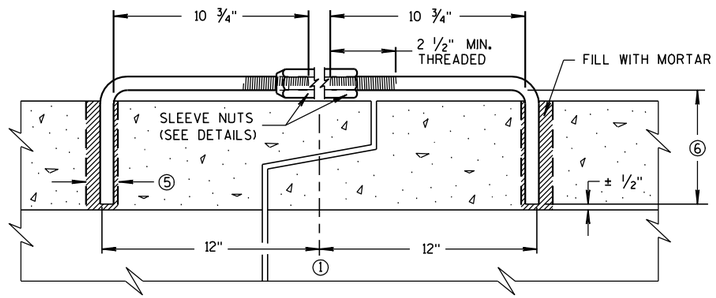


PLAIN

RIGHT AND LEFT THREADS

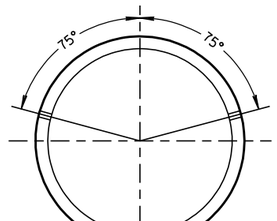
SLEEVE NUTS



LONGITUDINAL SECTION

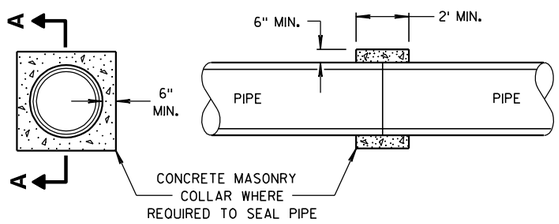
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

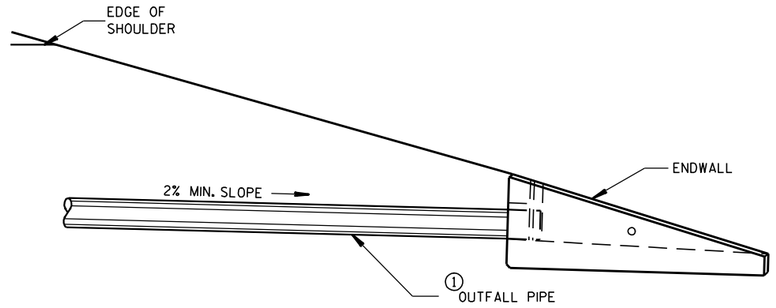
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
383
FHWA

6

S.D.D. 8 F 4-7

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

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



INSTALLATION DETAIL

GENERAL NOTES

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

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

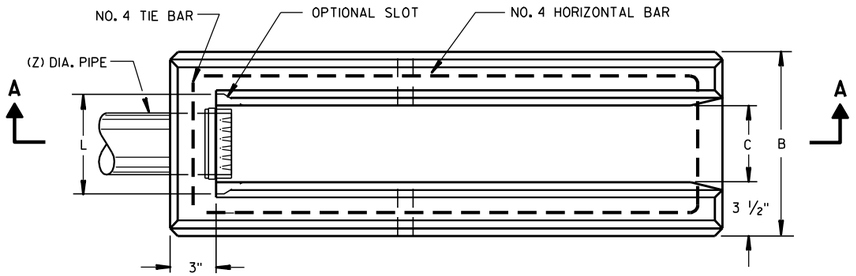
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

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

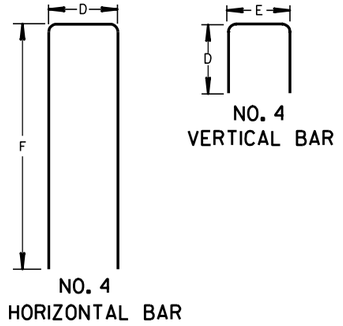
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE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

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

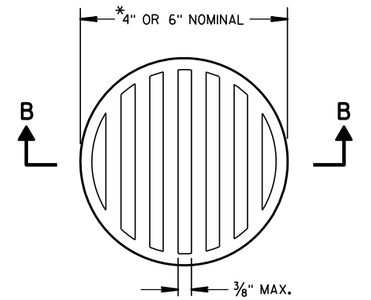
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL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

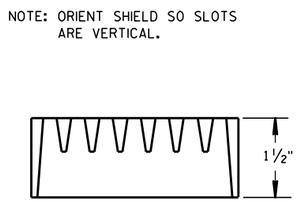


PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS

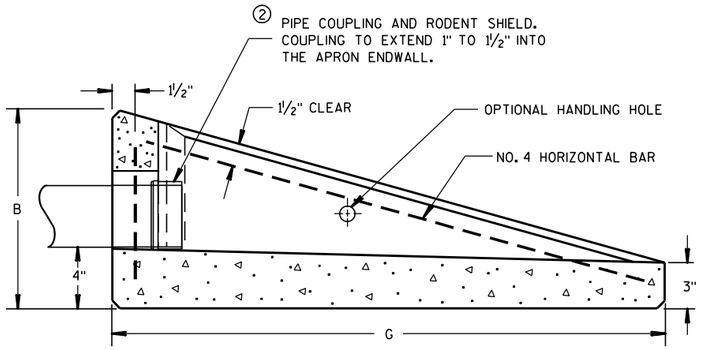




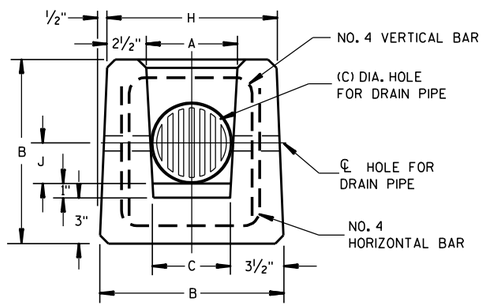
SECTION B-B

② RODENT SHIELD

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



SECTION A-A



END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN

REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

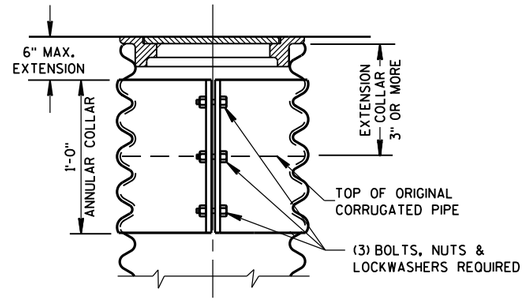
S.D.D. 8 F 6-4

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

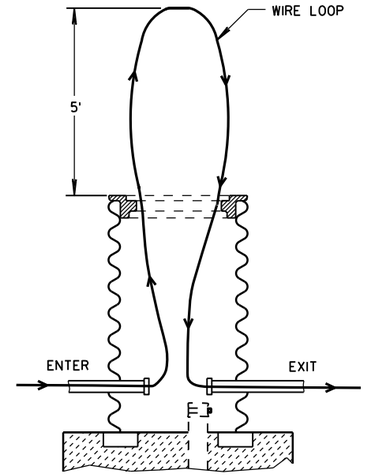
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2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

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

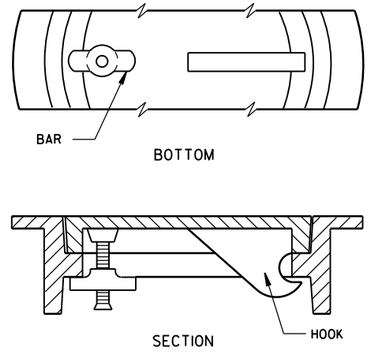
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

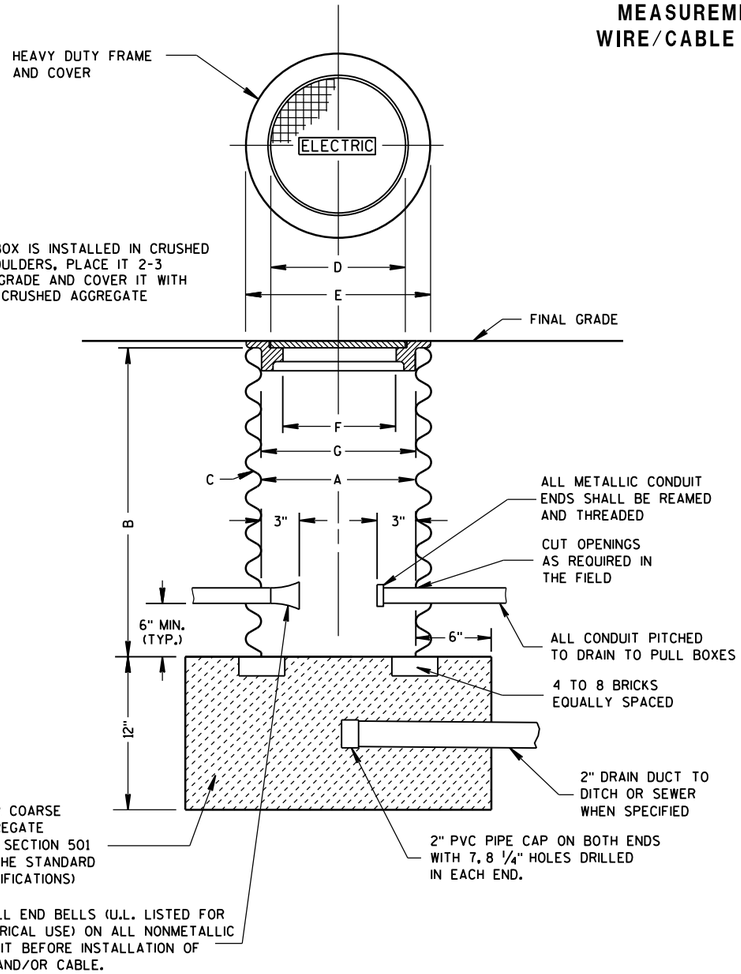


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



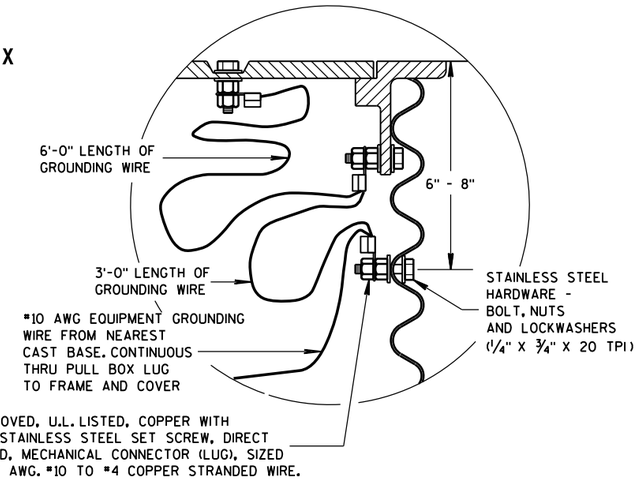
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

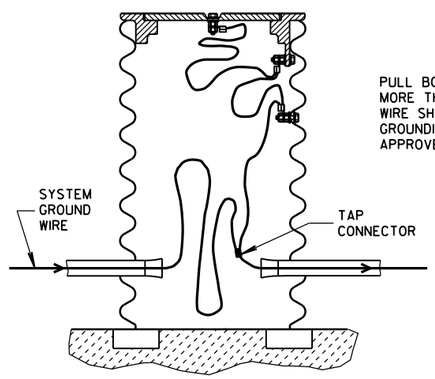


WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



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

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

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

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

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

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

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

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

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

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

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 385
FHWA

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S.D.D. 9 B 4-11

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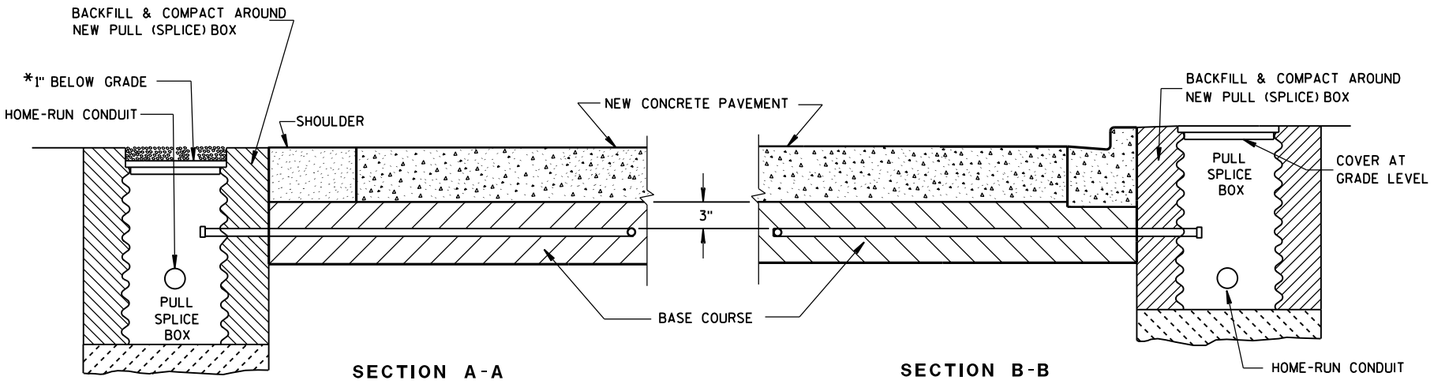


SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS 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.

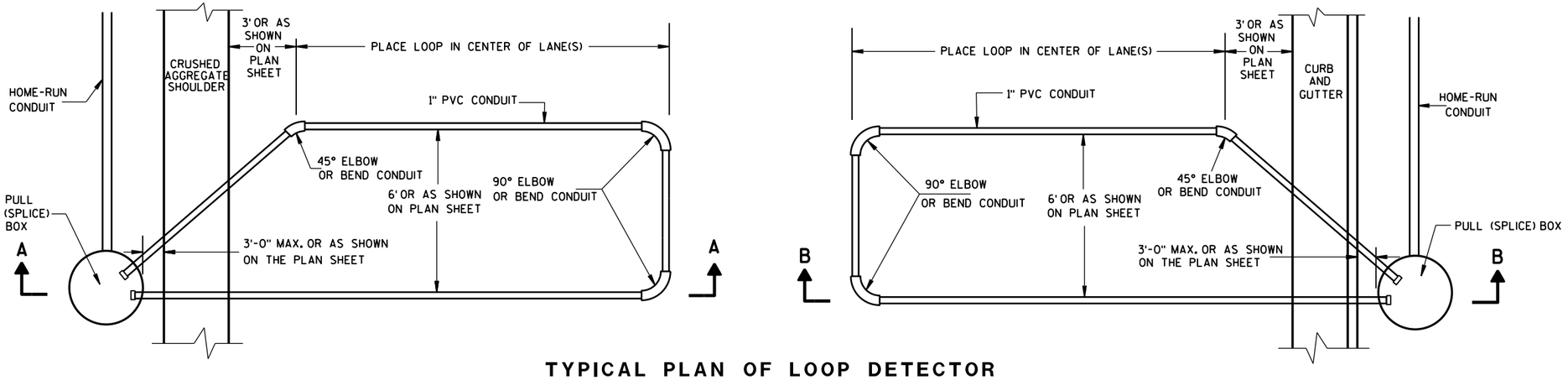
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICE CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE, SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 18" OR 24" PULL (SPLICE) BOX

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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S.D.D. 9 F 15-4a

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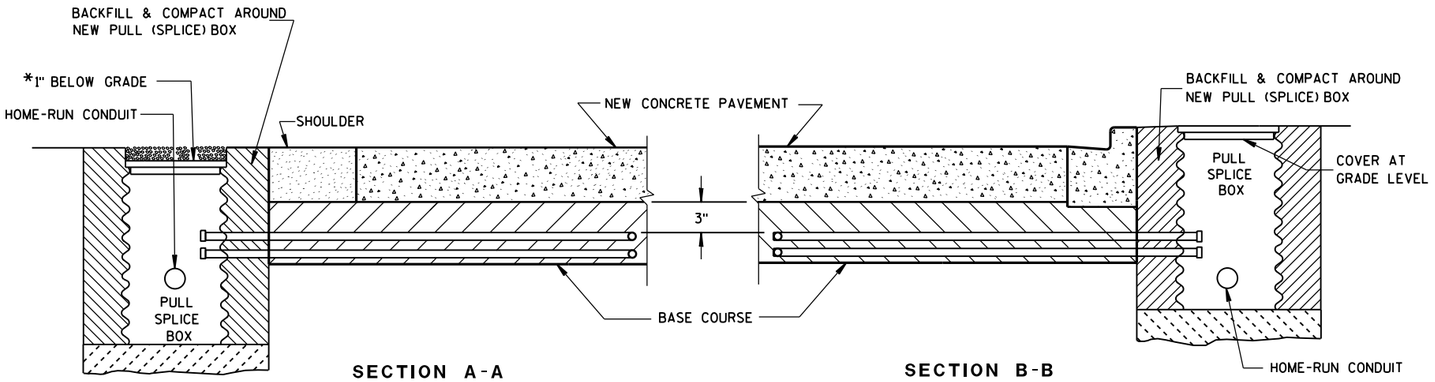
S.D.D. 9 F 15-4a



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS 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.

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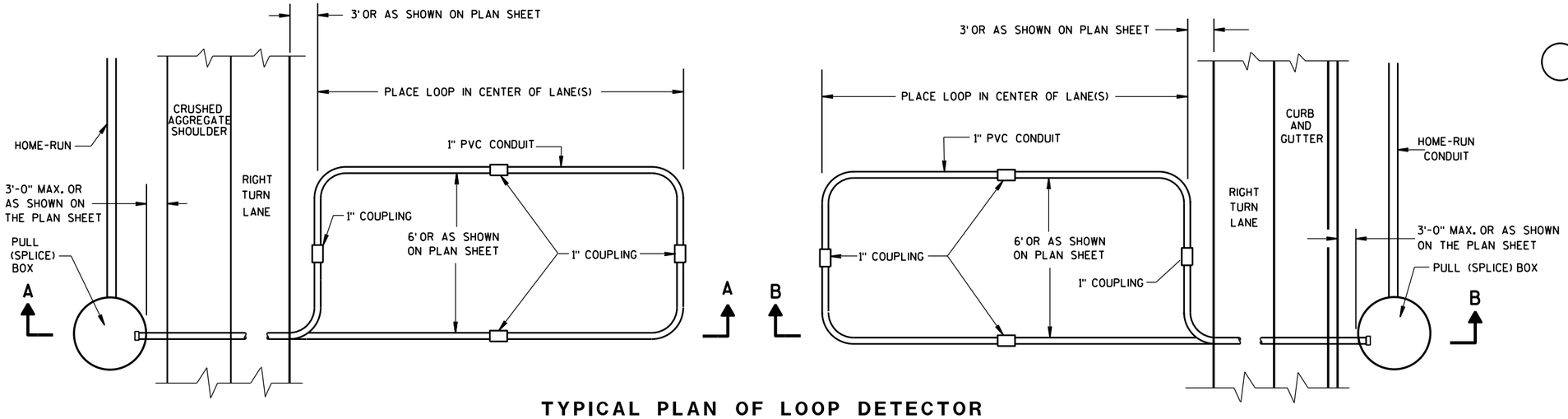
SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

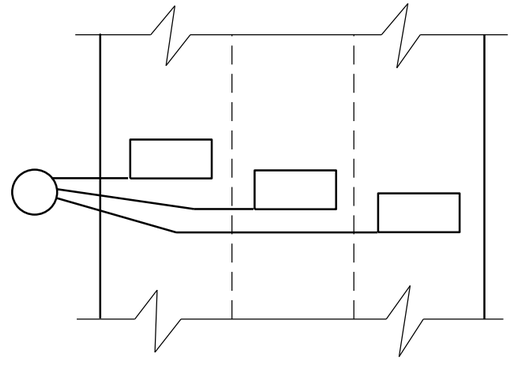
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.

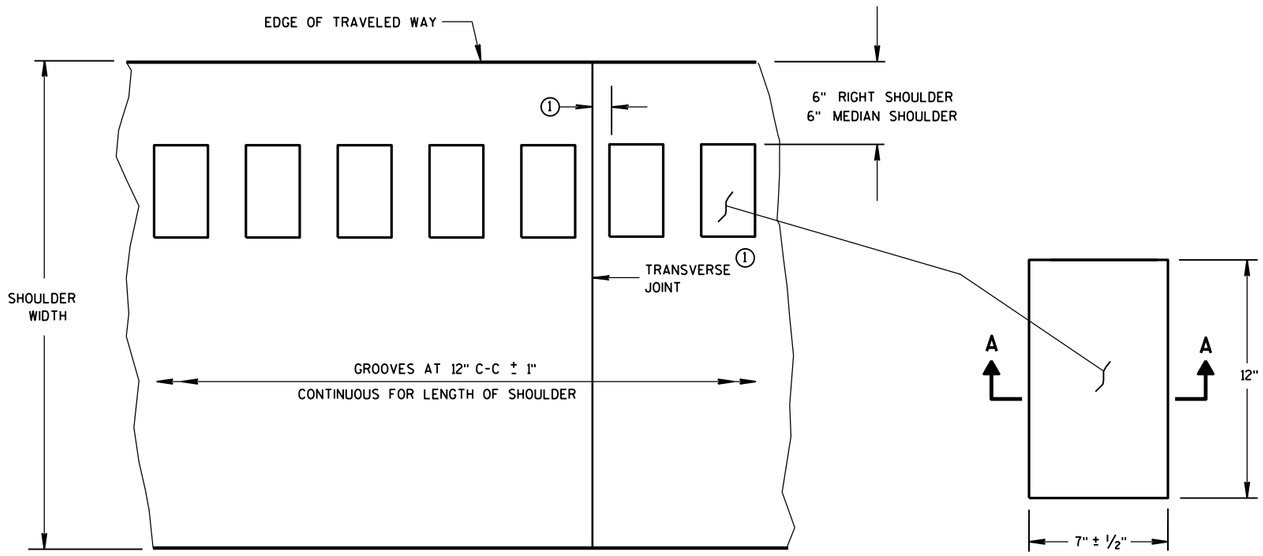


TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED Sept. 2014 — DATE /S/ Ahmet Demirbilek — STATE ELECTRICAL FHWA



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

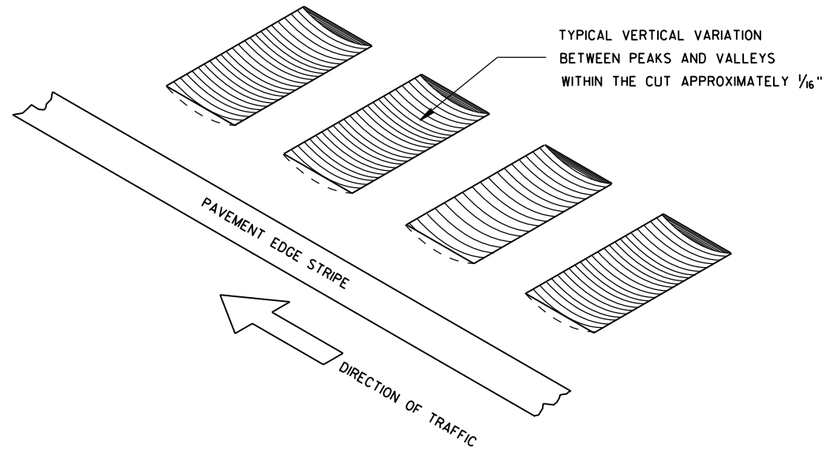
GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



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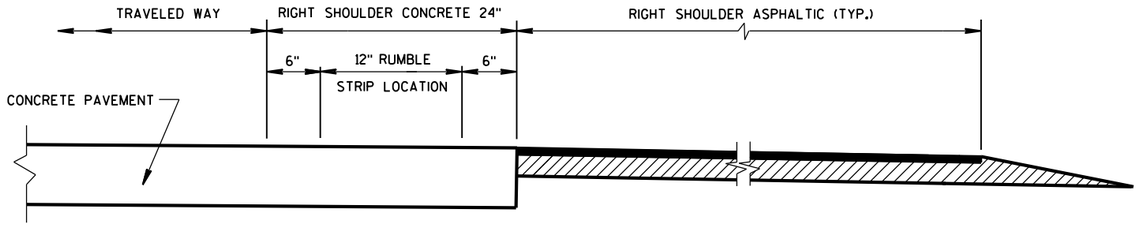
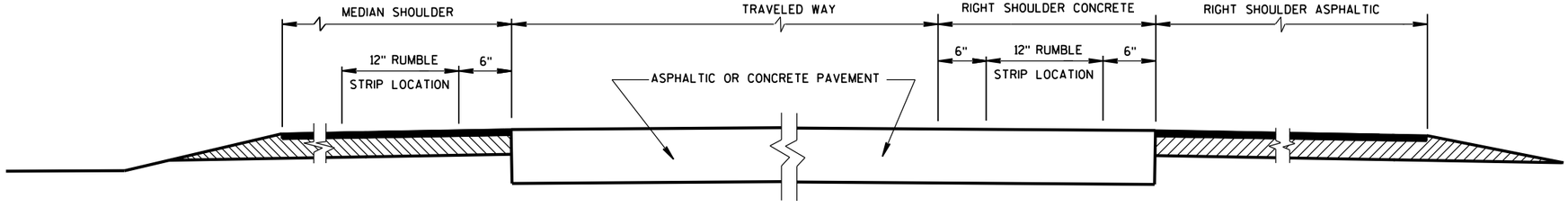


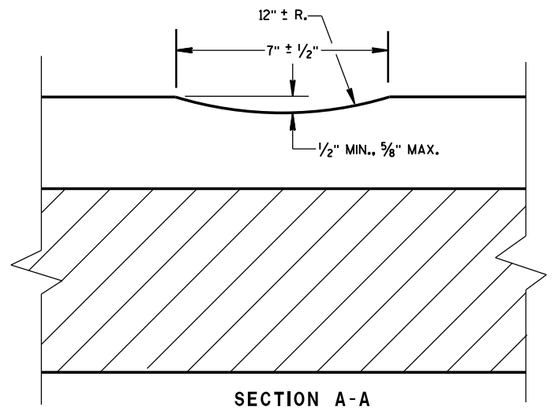
SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS IN RURAL DIVIDED HIGHWAYS

(ONE ROADWAY IS SHOWN)



SECTION A-A

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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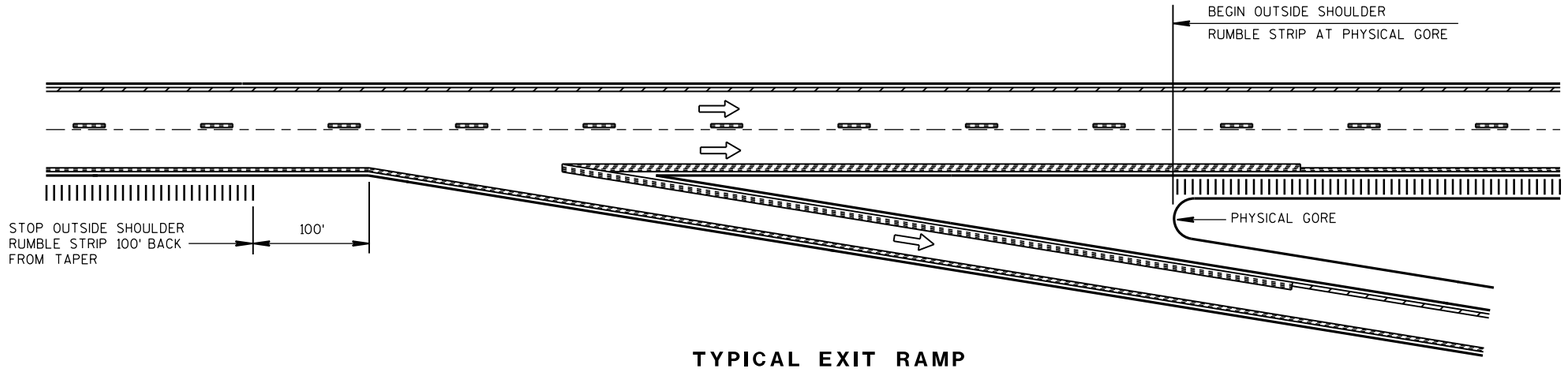
S.D.D. 13 A 5-5a



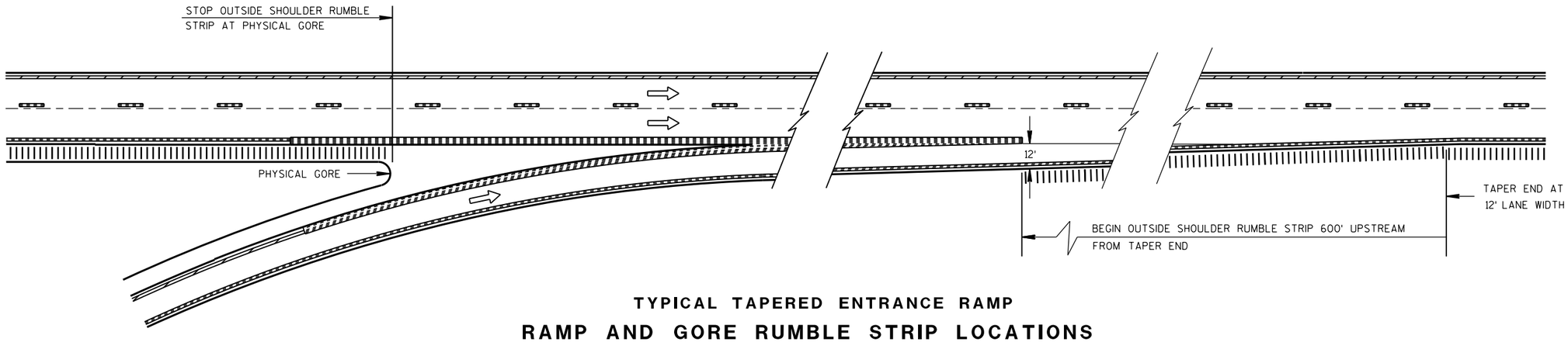
TYPICAL EXIT RAMP

NOTES:

NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

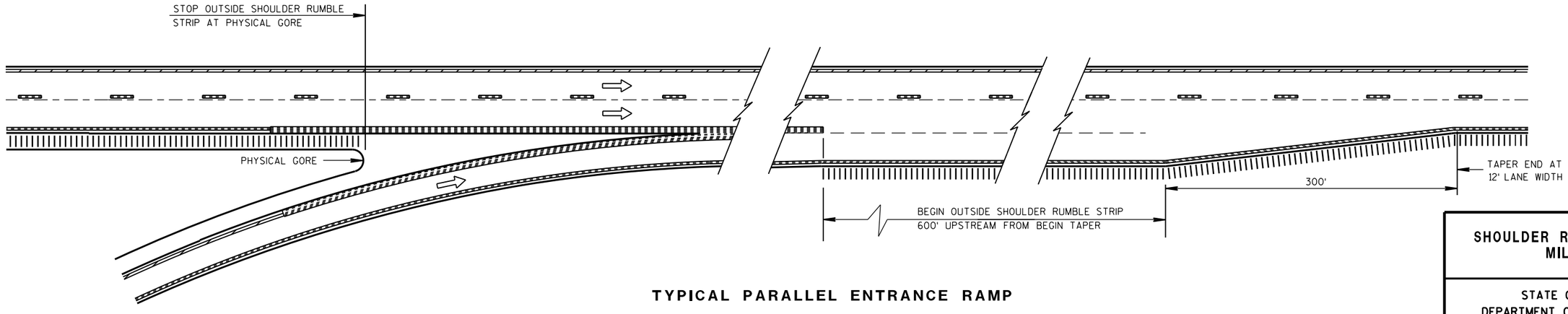
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/17/2012 DATE
/S/ Jerry H. Zoga
ROADWAY STANDARDS ENGINEER
FHWA

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S.D.D. 13 A 5-5b

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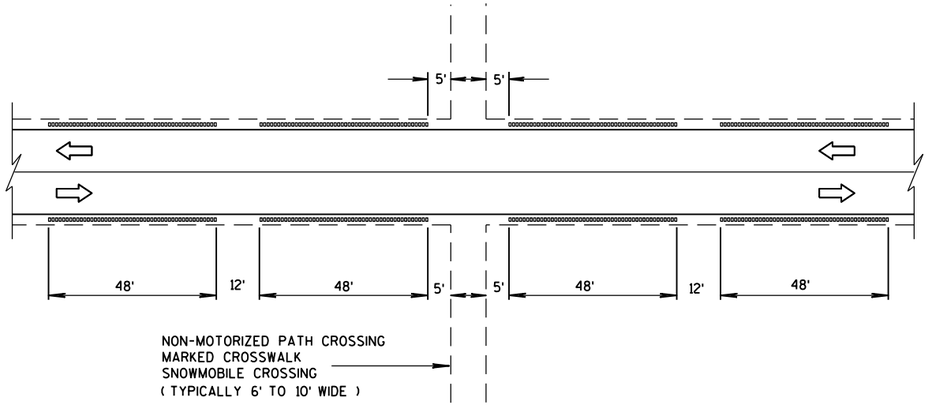
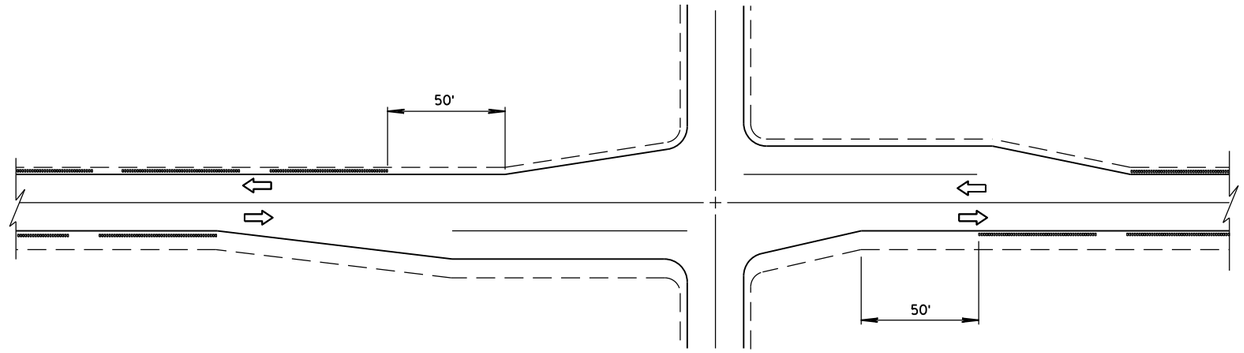
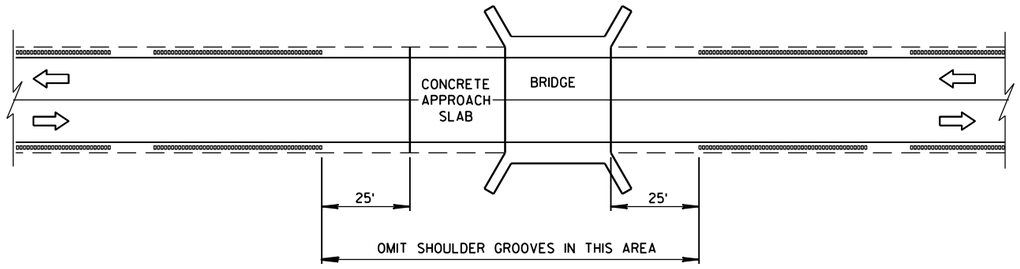
S.D.D. 13 A 5-5b



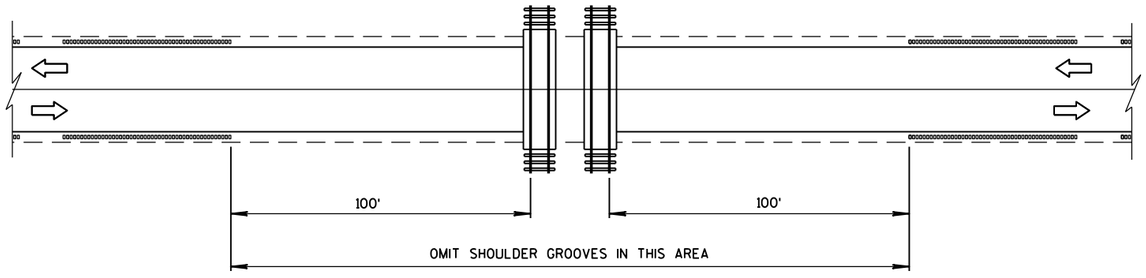
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



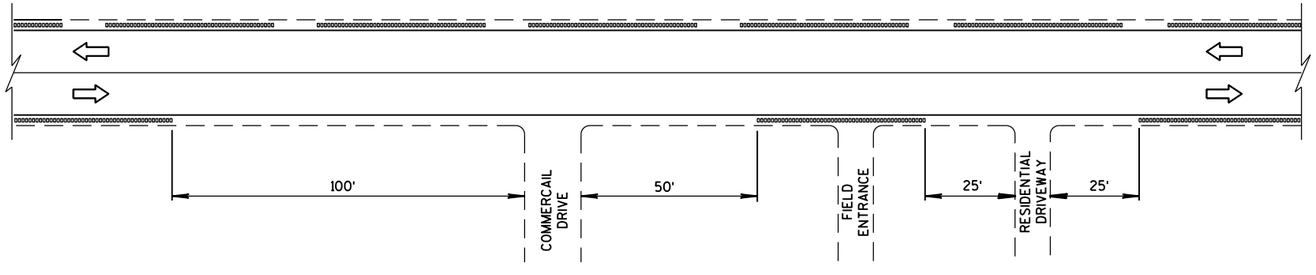
SHOULDER GROOVES AT INTERSECTIONS



SHOULDER GROOVES AT BRIDGES



SHOULDER GROOVES AT RAILROADS



SHOULDER GROOVES AT DRIVEWAYS (1)

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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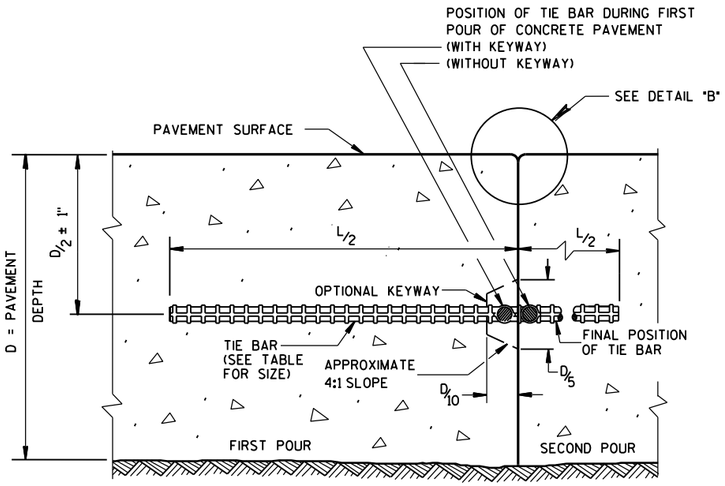
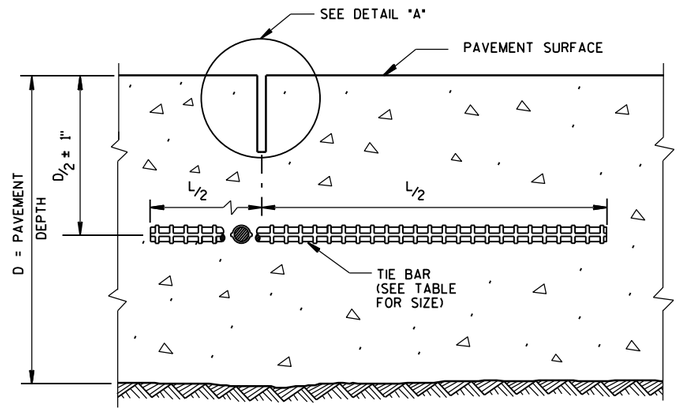
S.D.D. 13 A 10-1c



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

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

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

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

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

PLAN VIEW

SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

DETAIL "A"

DETAIL "B"

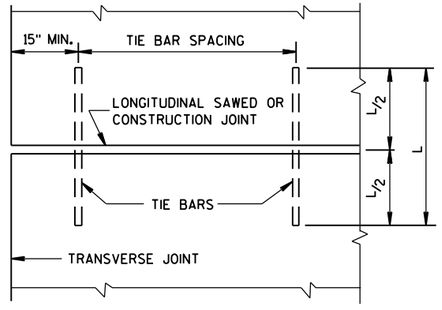
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

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S.D.D. 13 C 1-18

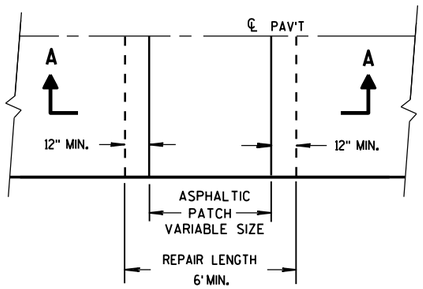
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

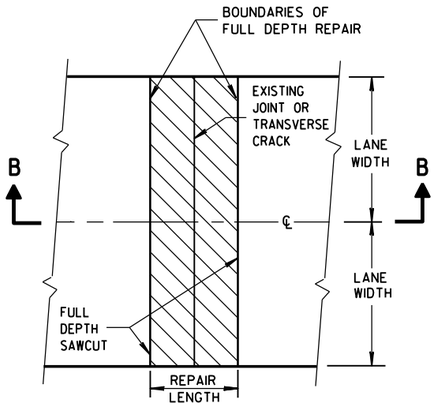
PROVIDE A 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK IN THE SAME LANE.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

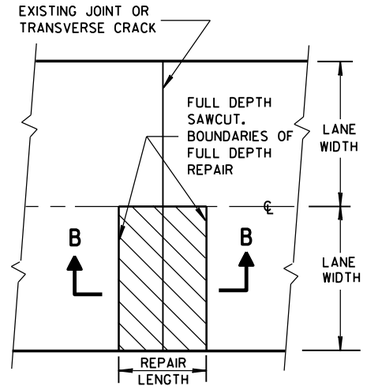
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW

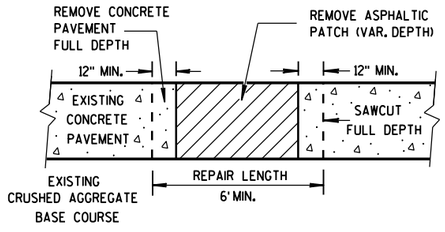


PLAN VIEW
(DOUBLE LANE REPAIR)



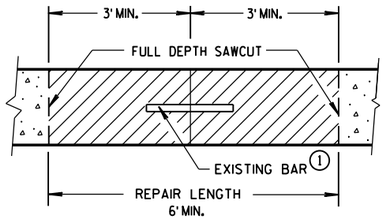
PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION A-A

HMA PATCH REMOVAL

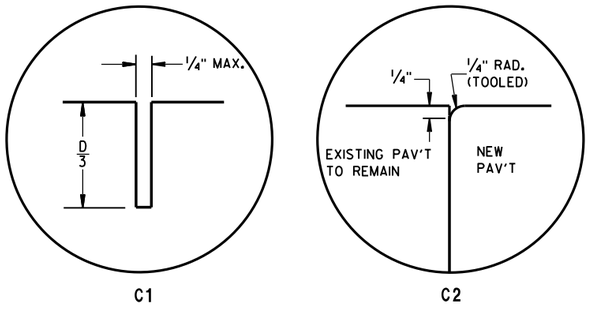


SECTION B-B

CONCRETE REMOVAL

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

6
S.D.D. 13 C 9-13a



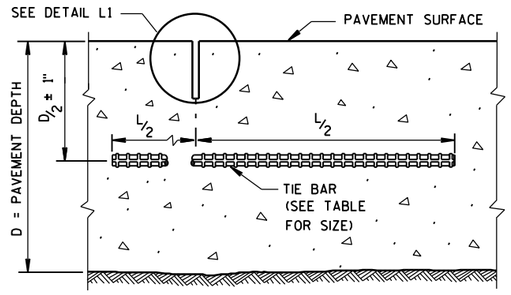
TRANSVERSE JOINTS

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



SECTION C-C

SAWED LONGITUDINAL JOINT

GENERAL NOTES

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

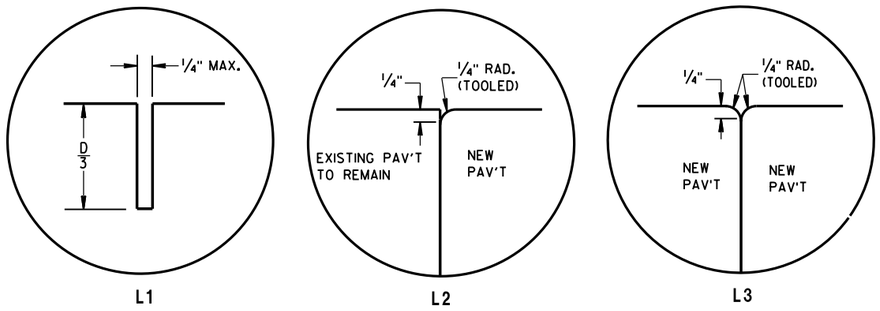
CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

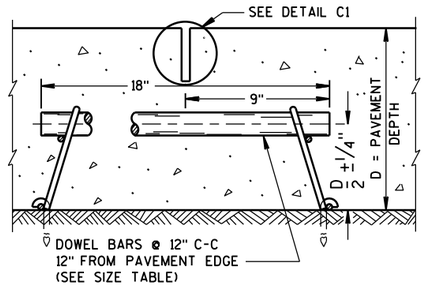
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

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

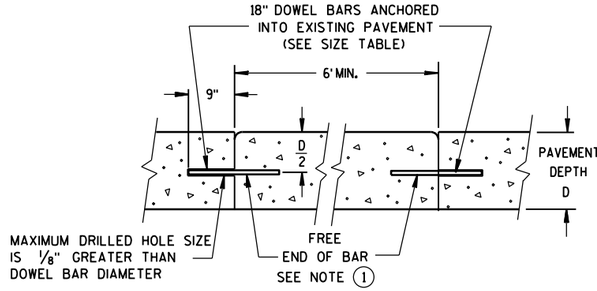


LONGITUDINAL JOINTS

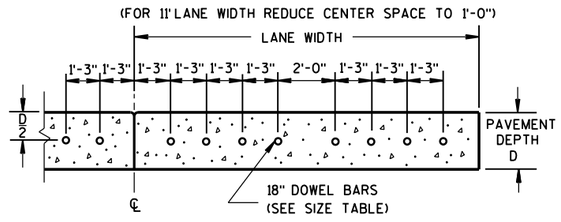


SECTION F-F

CONTRACTION JOINT



SECTION D-D

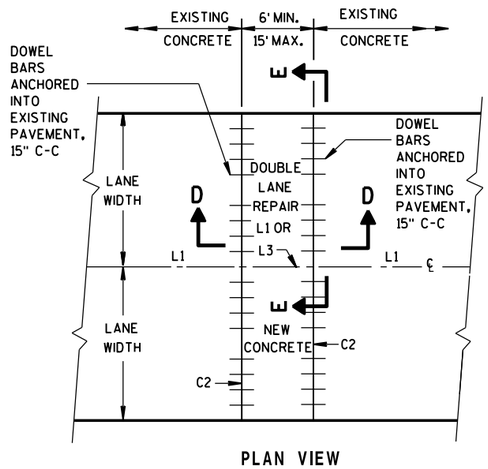


SECTION E-E

DRILLED DOWEL BAR CONSTRUCTION JOINT

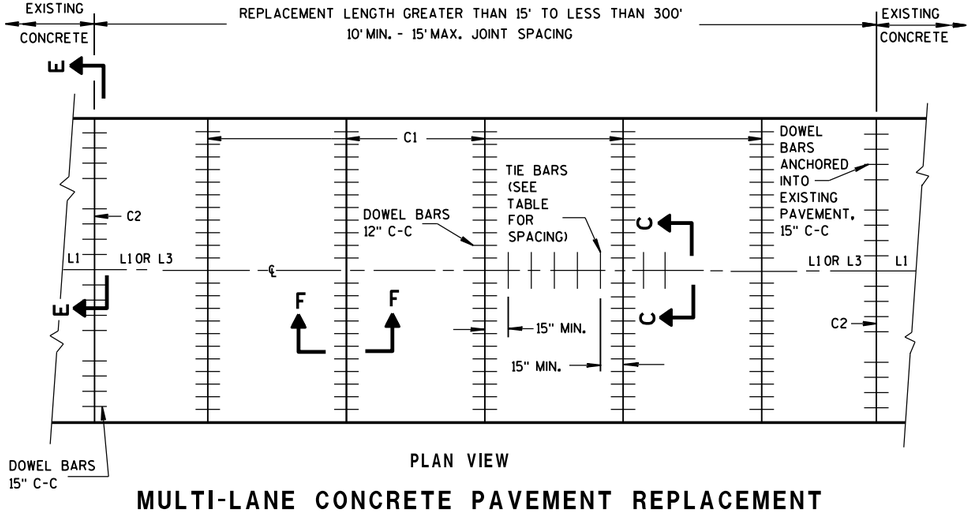
PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

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



PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

S.D.D. 13 C 9-13b
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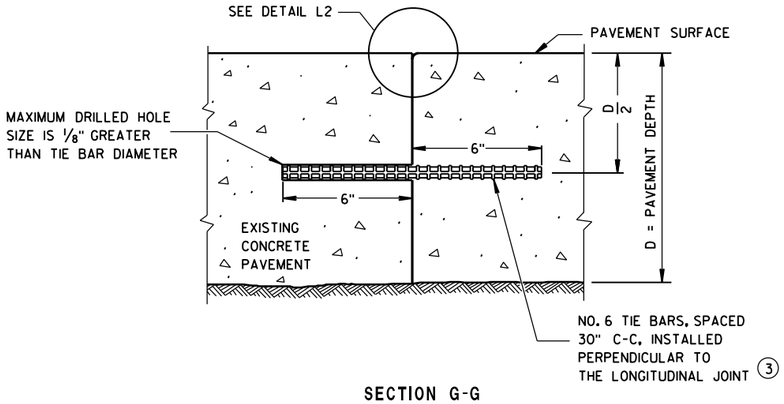


SECTION G-G

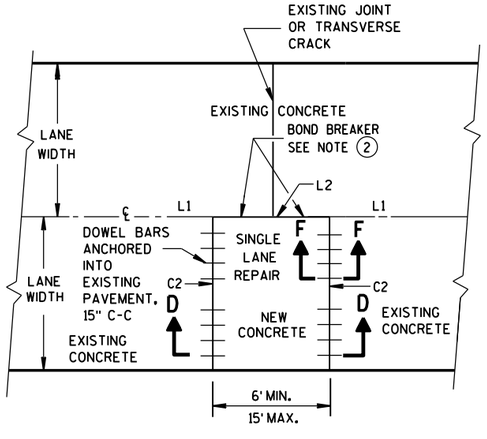
TIE BARS ANCHORED INTO EXISTING PAVEMENT

GENERAL NOTES

(1) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

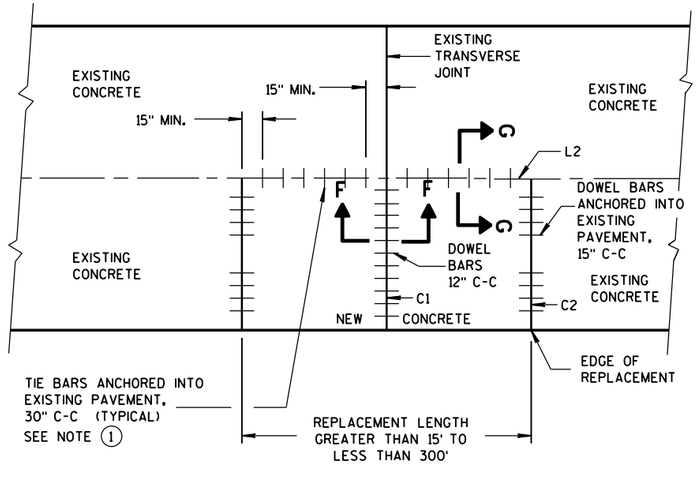
(2) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.

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



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

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S.D.D. 13 C 9-13c

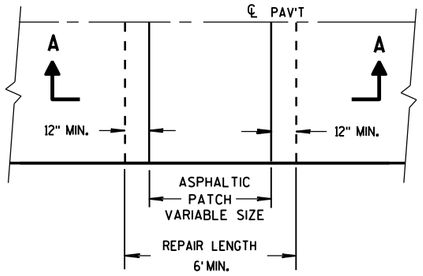
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

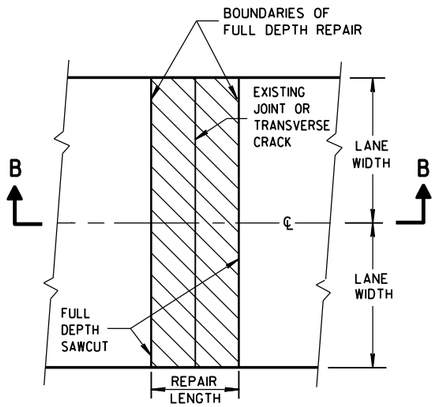
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

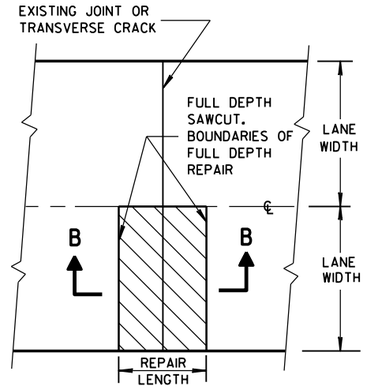
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW

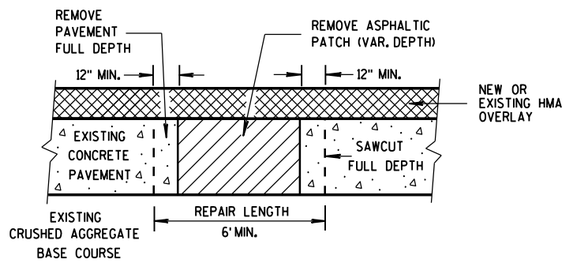


PLAN VIEW
(DOUBLE LANE REPAIR)



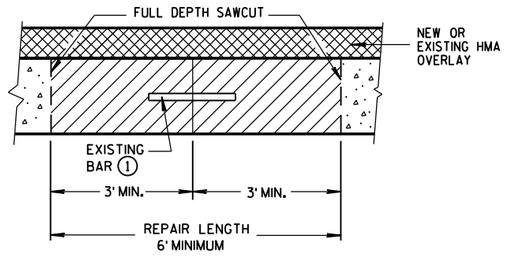
PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION A-A

HMA PATCH REMOVAL



SECTION B-B

CONCRETE REMOVAL

BASE PATCHING CONCRETE

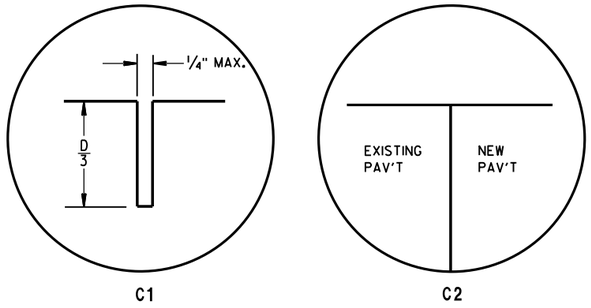
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

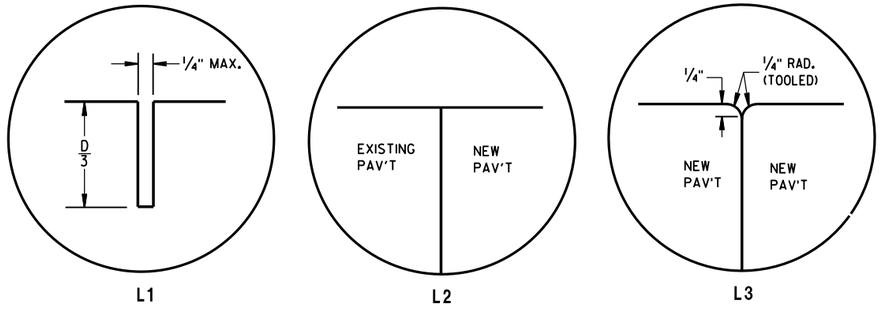
S.D.D. 13 C 14-6a

6

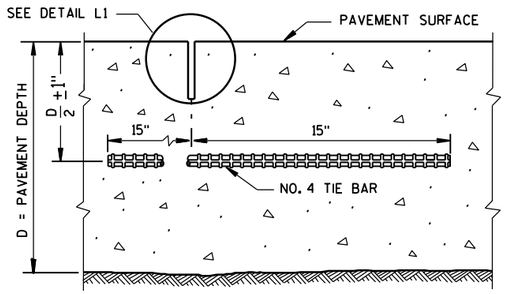
S.D.D. 13 C 14-6a



TRANSVERSE JOINTS

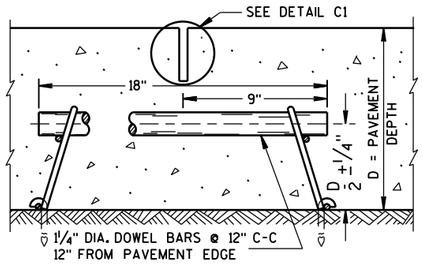


LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT



SECTION F-F

CONTRACTION JOINT

GENERAL NOTES

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

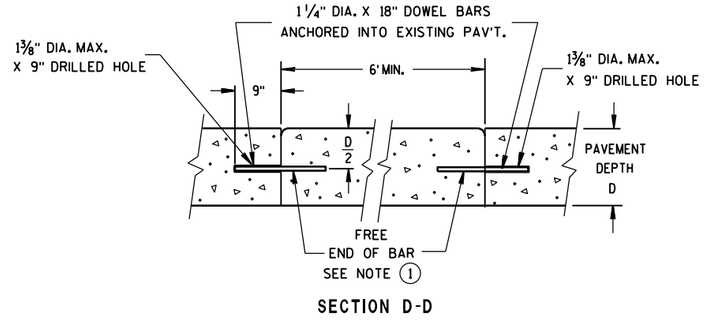
CONCRETE BASE PATCHES OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

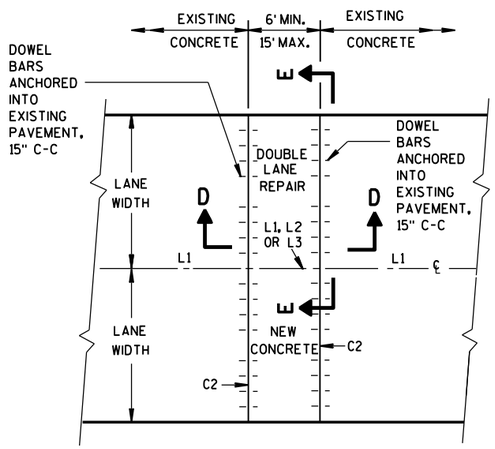
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

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

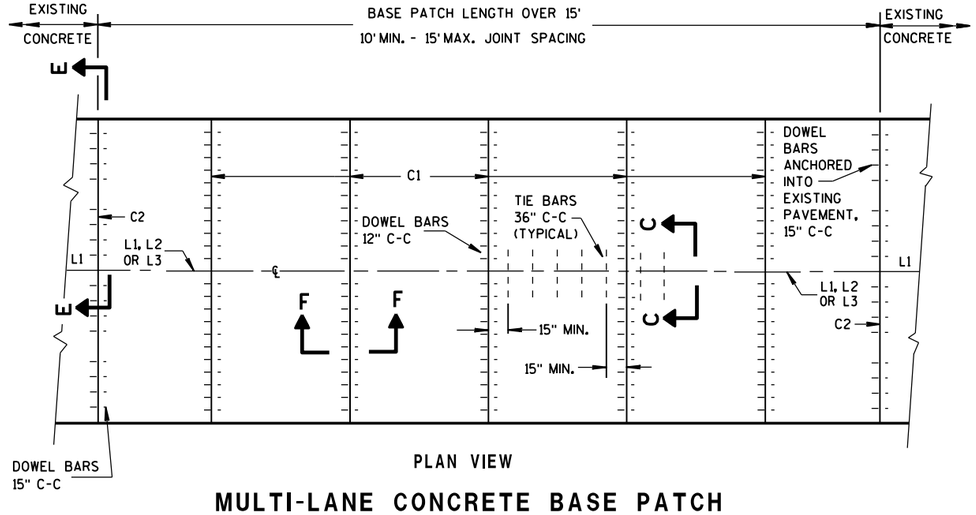


SECTION D-D



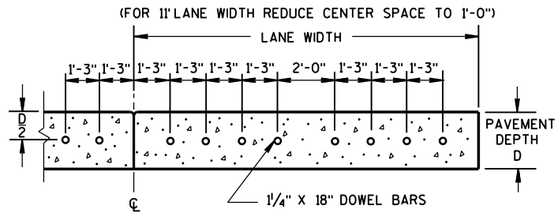
PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH



SECTION E-E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

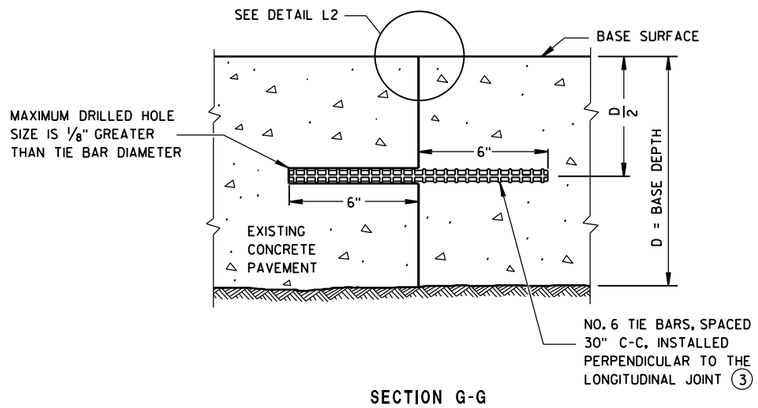
6
S.D.D. 13 C 14-6b

GENERAL NOTES

(1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.

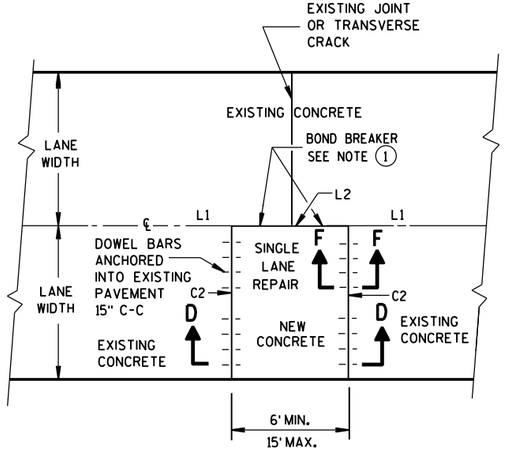
(2) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

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



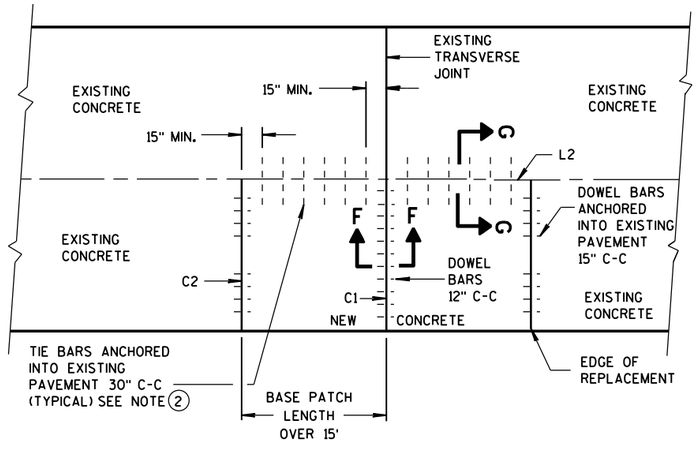
SECTION G-G

TIE BARS ANCHORED INTO EXISTING PAVEMENT



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

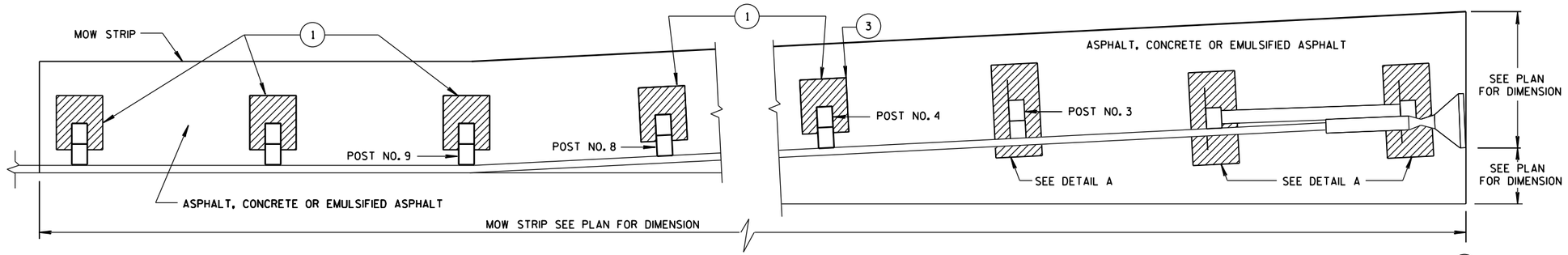
APPROVED
Sept., 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

6

S.D.D. 13 C 14-6c

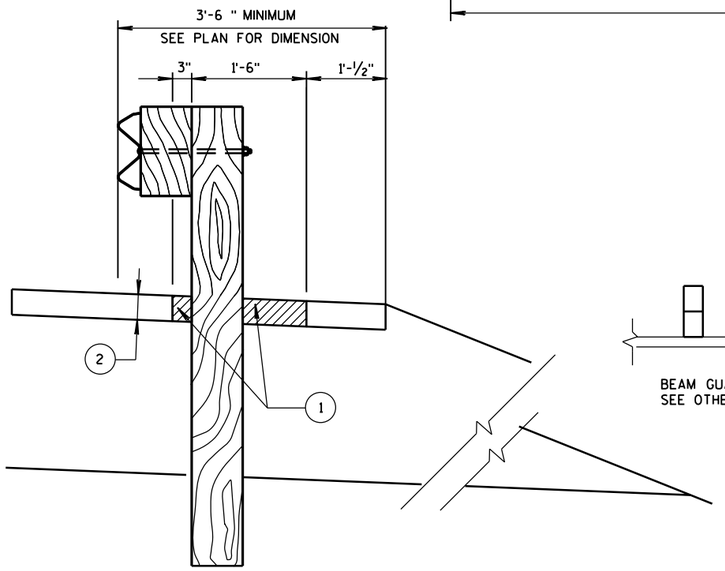
6

S.D.D. 13 C 14-6c

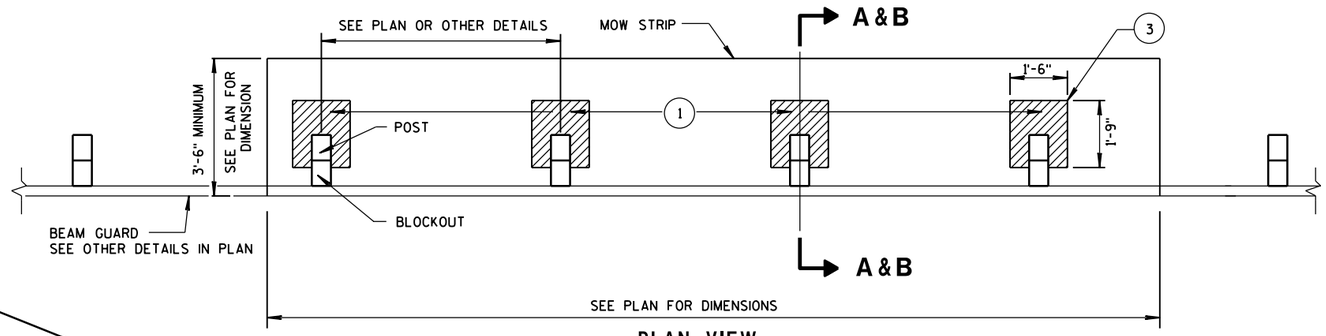


PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABORBING TERMINAL

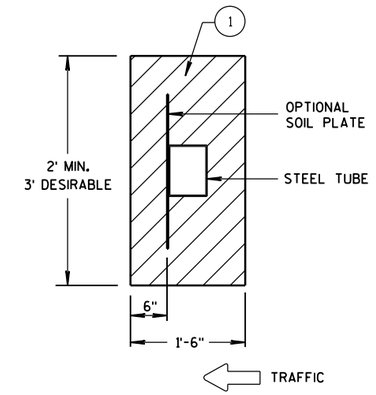


SECTION A-A

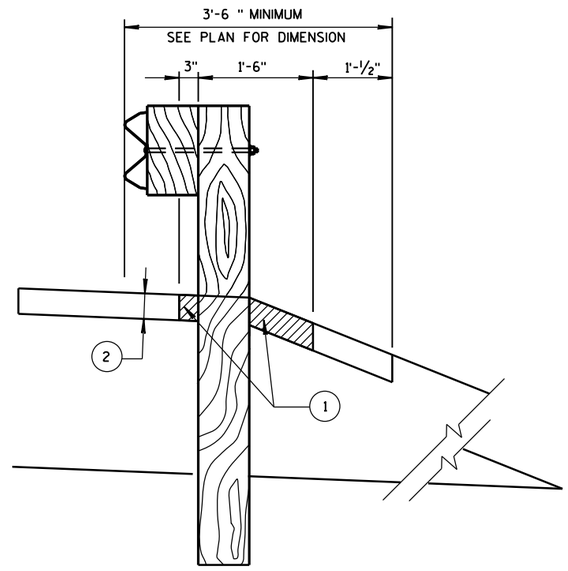


PLAN VIEW

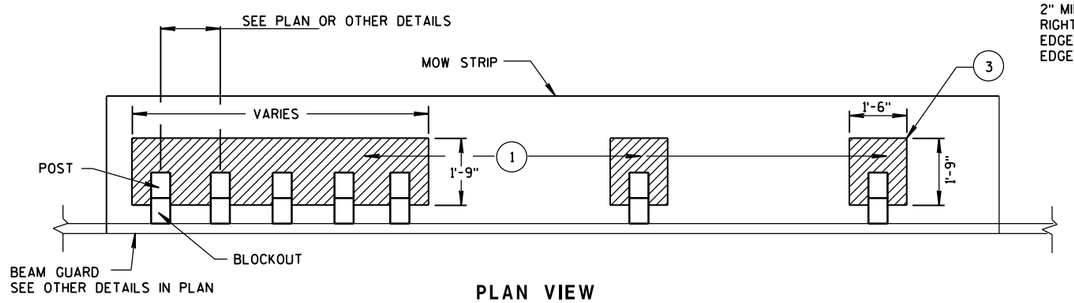
MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT



DETAIL A

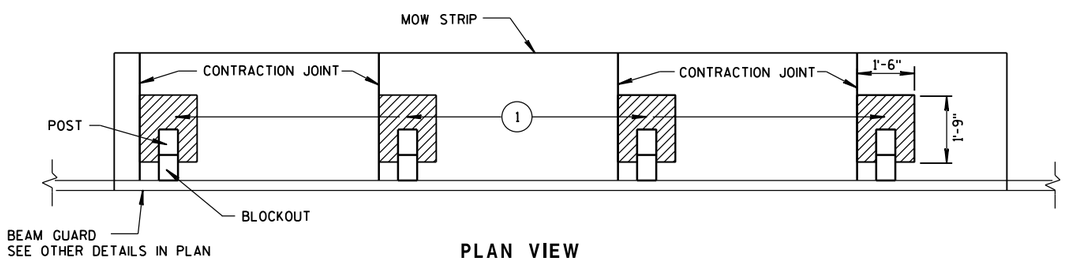


SECTION B-B



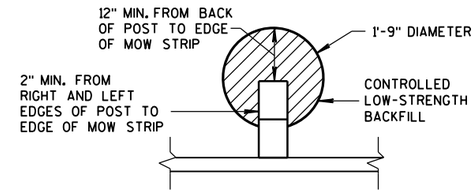
PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP



ALTERNATIVE HMA
MOW STRIP DESIGN

(1) CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.

(2) DEPTH OF MOW STRIP:
ASPHALT - 4"
CONCRETE - 4"
EMULSIFIED ASPHALT - 1" OR LESS

(3) FOR EMULSIFIED ASPHALT MOW STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS.)

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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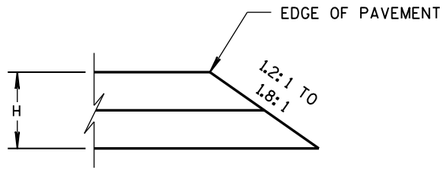
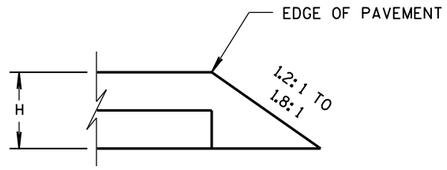
S.D.D. 14 B 28-3



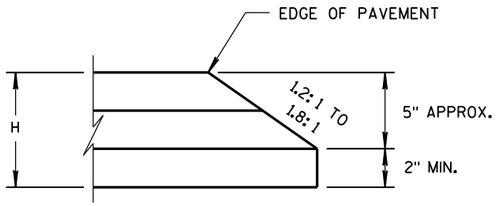
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



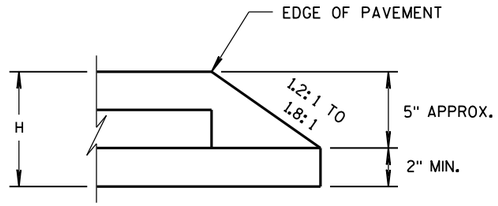
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

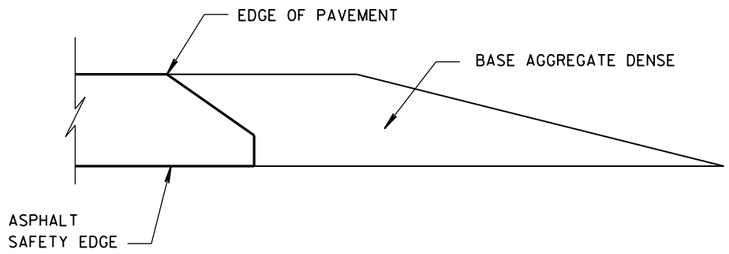
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

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S.D.D. 14 B 29-1

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

GENERAL NOTES

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

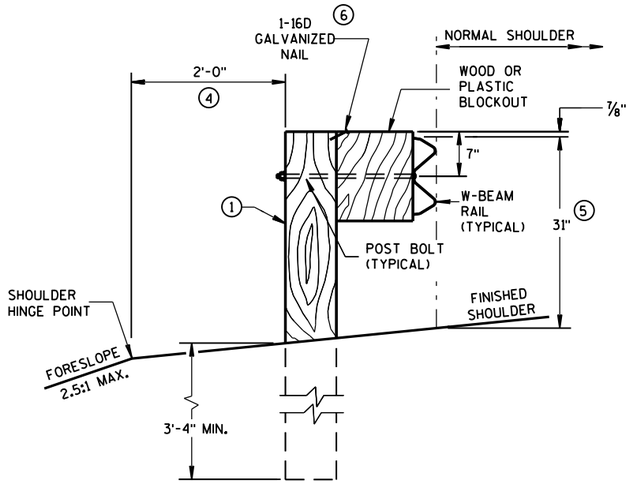
(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

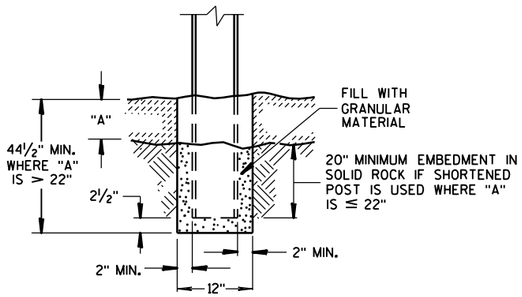
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

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



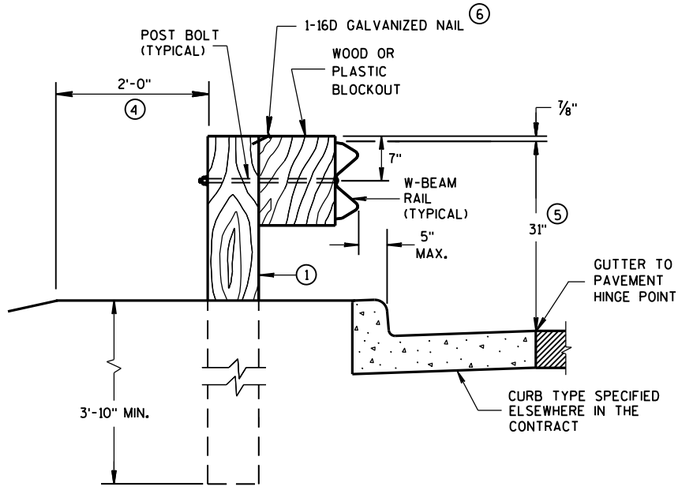
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



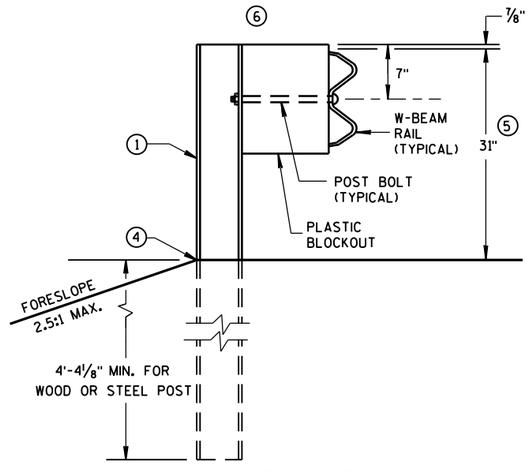
END VIEW

SETTING STEEL OR WOOD POST IN ROCK (3)



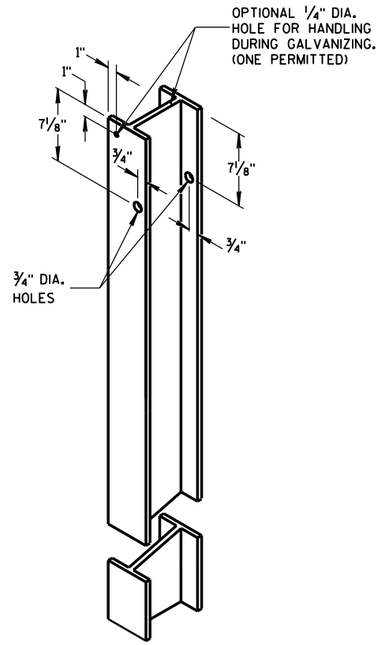
END VIEW

LOCATED ALONG A CURBED ROADWAY

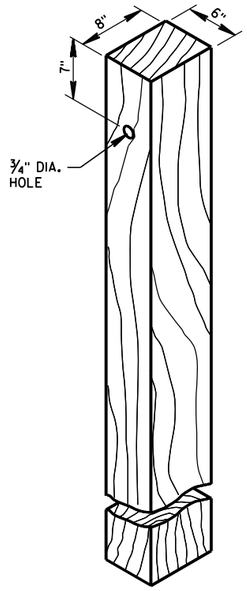


END VIEW

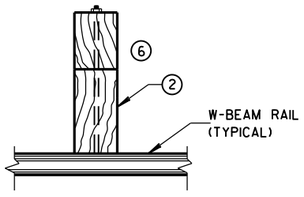
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



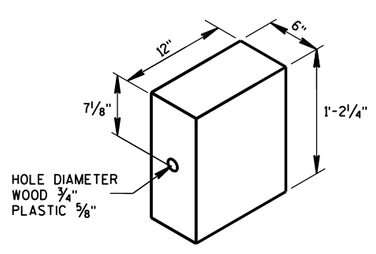
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) (1)



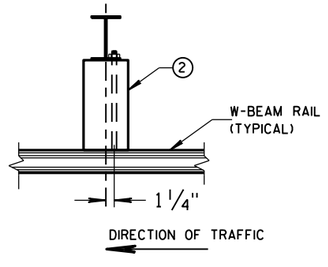
WOOD POST
(6" X 8") NOMINAL (1)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT (2)



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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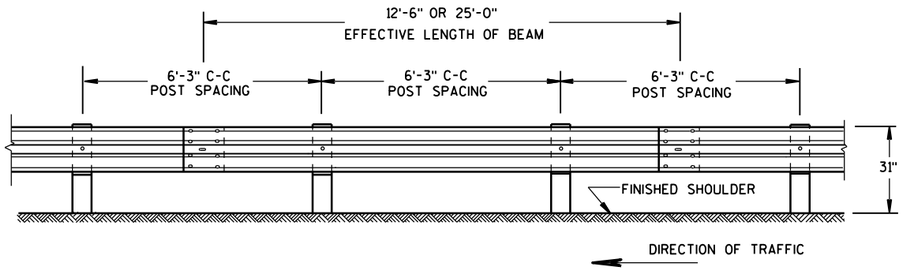
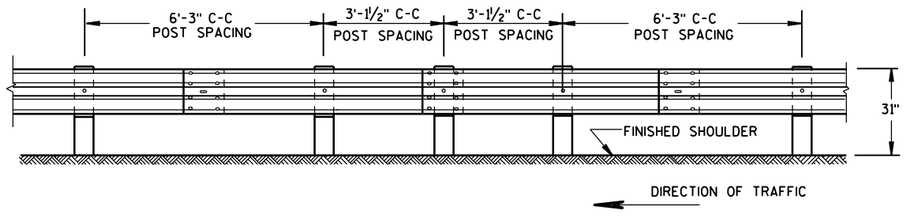


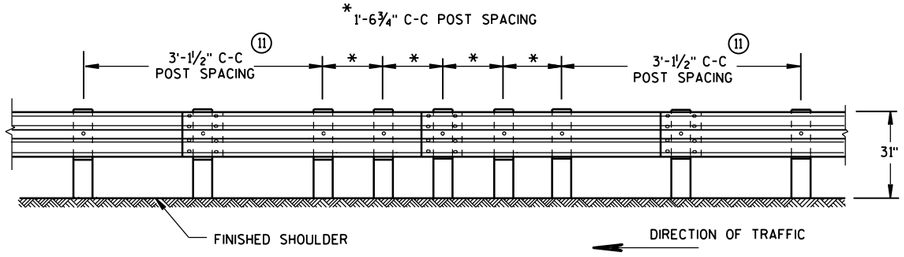
FRONT VIEW

POST SPACING STANDARD INSTALLATION



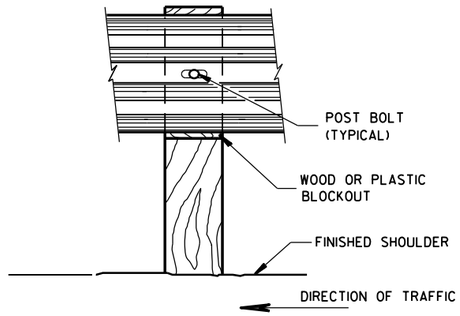
FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

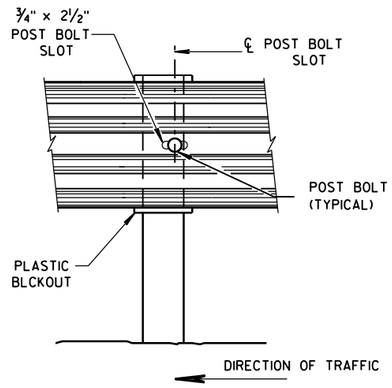


FRONT VIEW

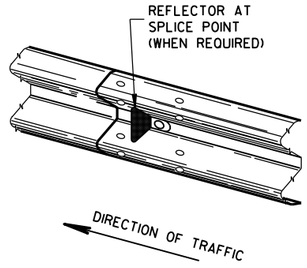
QUARTER POST SPACING (QS)

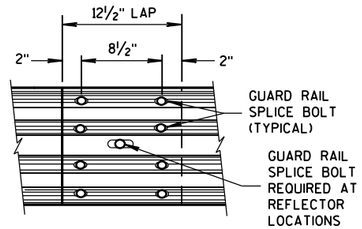


FRONT VIEW AT WOOD POST



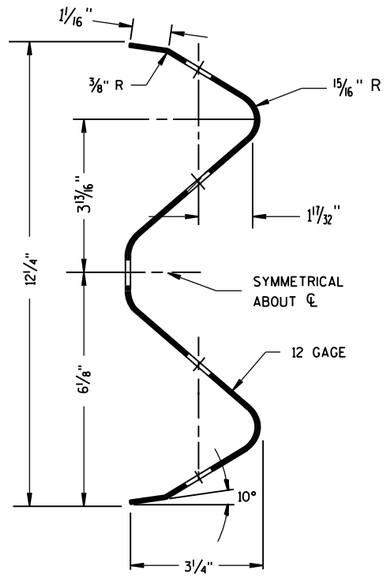
FRONT VIEW AT STEEL POST



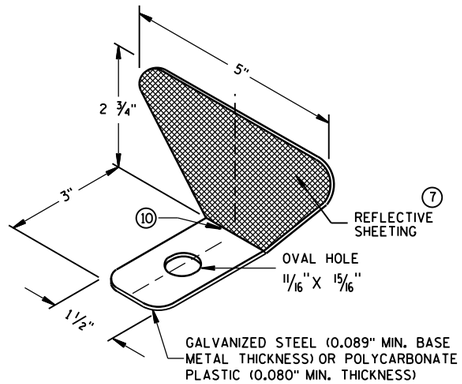


FRONT VIEW

MID-SPAN BEAM SPLICE



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION ⑦

GENERAL NOTES

⑦ PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

⑨ REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

⑩ PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

⑪ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

REFLECTOR SPACING ⑧

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 ⑨ 1	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 2 ⑩	3

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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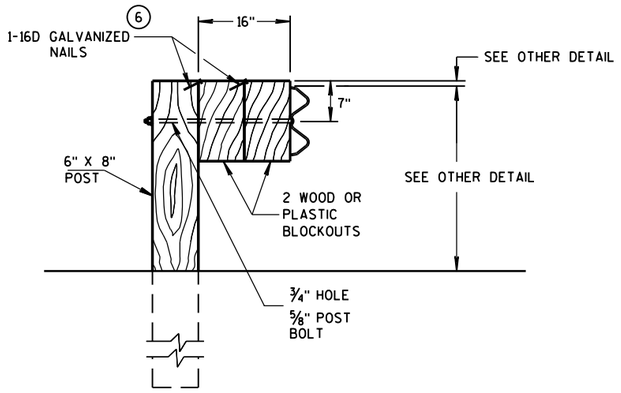
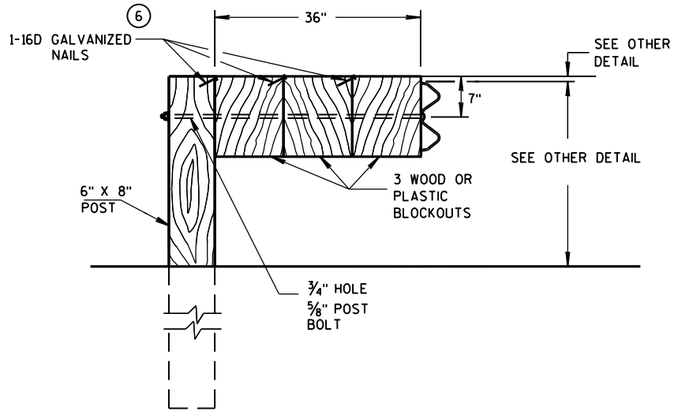
S.D.D. 14 B 42-3b



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

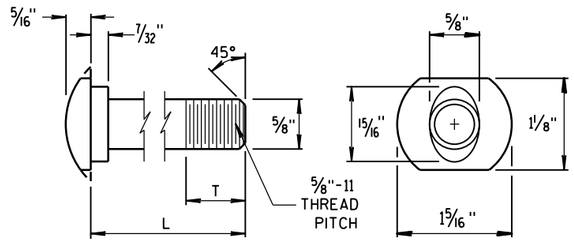


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

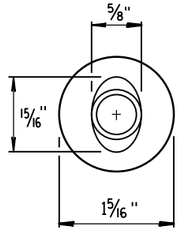
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

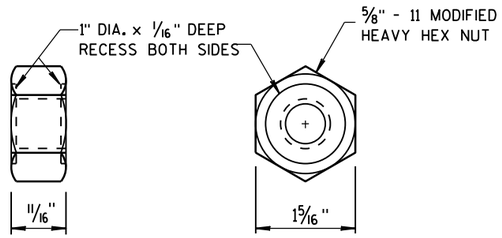


POST BOLT TABLE

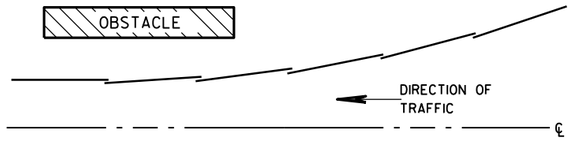
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

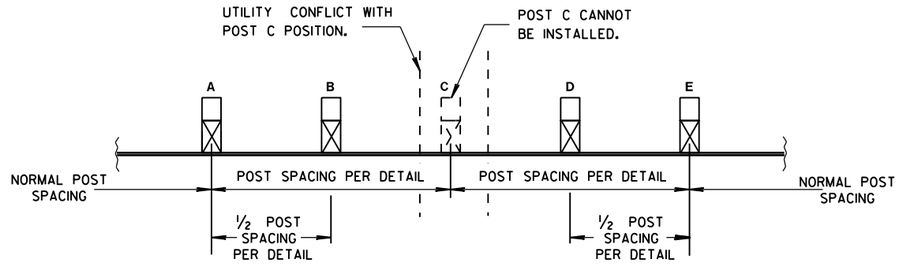


POST BOLT AND RECESS NUT

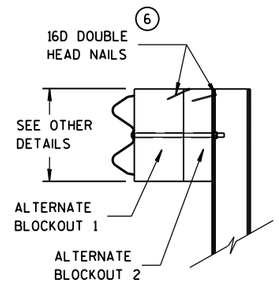


PLAN VIEW

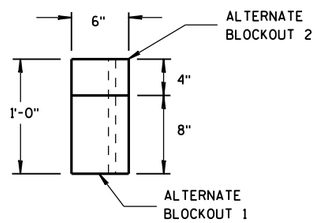
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS [402
ENGINEER
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S.D.D. 14 B 42-3c

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S.D.D. 14 B 42-3c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

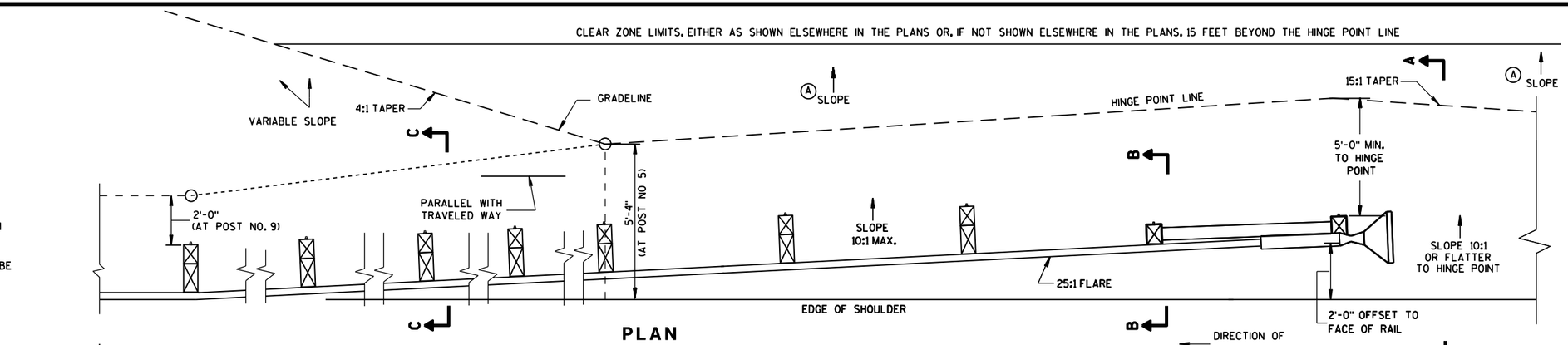
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

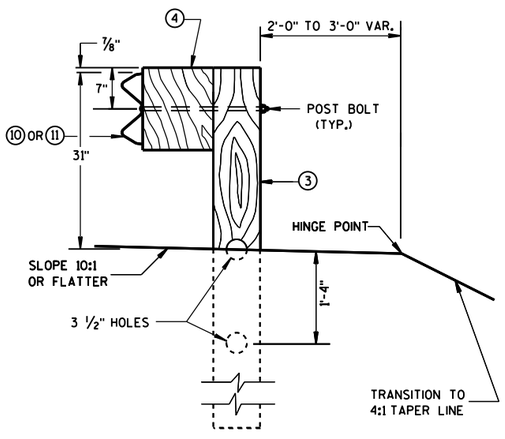
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

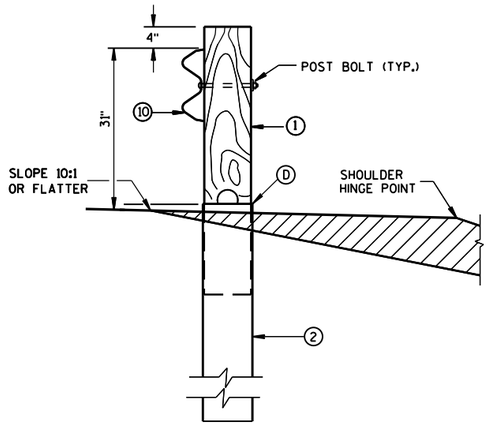
THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.



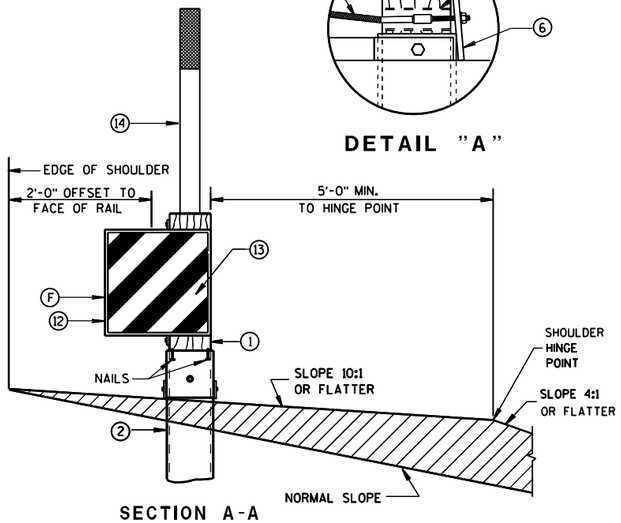
ELEVATION



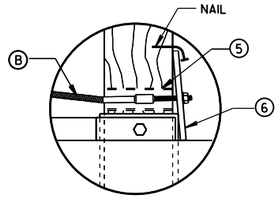
SECTION C-C
TYPICAL AT POST NOS. 3-9



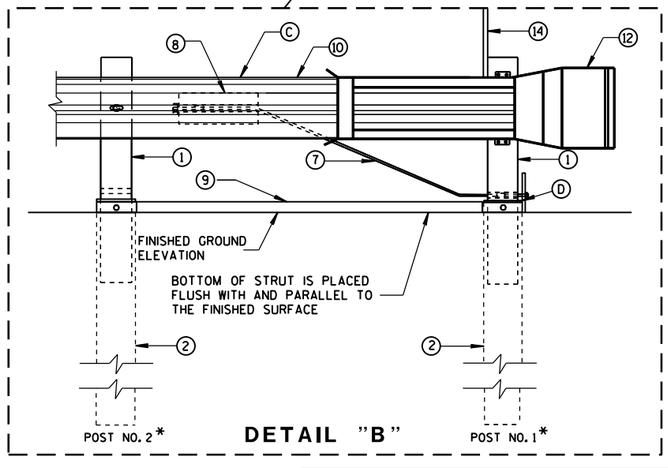
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"

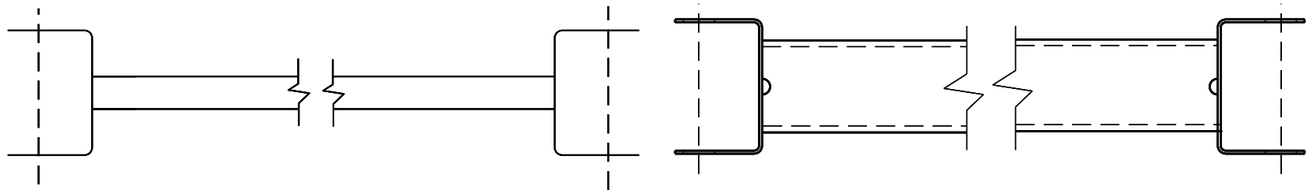


DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6
S.D.D. 14 B 44-2a

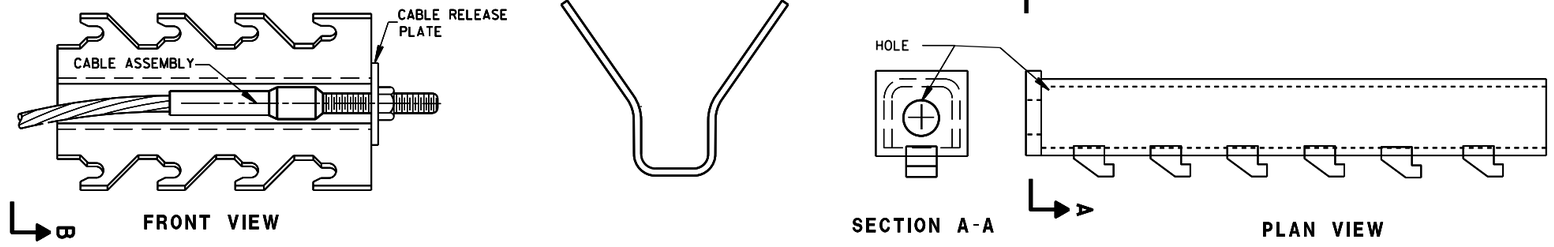


(9) (H)

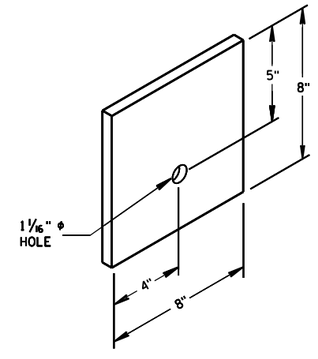
GENERIC GROUND STRUT

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



GENERIC ANCHOR CABLE BOX (8) (H)

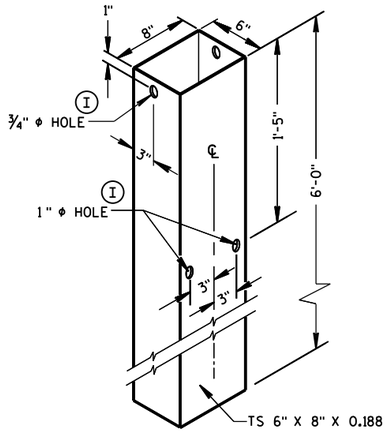


BEARING PLATE (6)

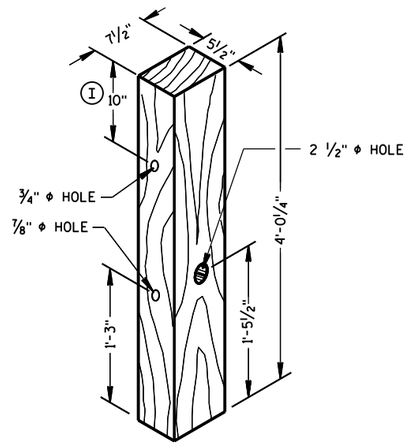
MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 14 B 44-2b

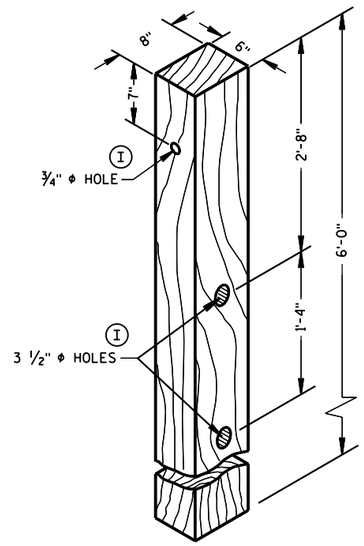


FOUNDATION TUBE (2)



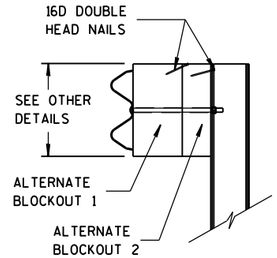
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

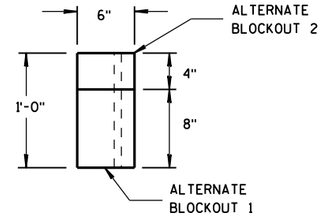


POSTS NUMBER 3-9

WOOD CRT POST (3)

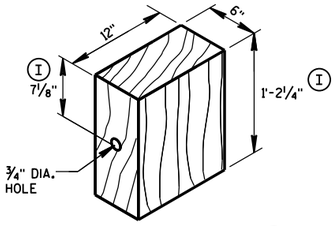


SIDE VIEW



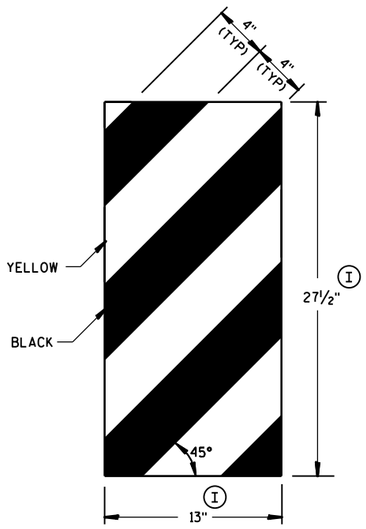
TOP VIEW

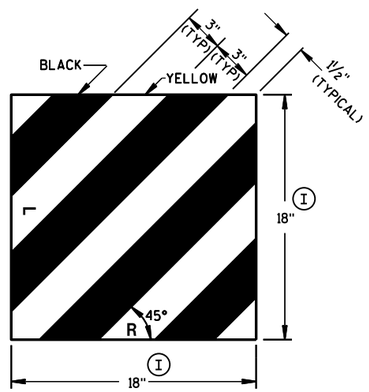
ALTERNATE WOOD BLOCKOUT DETAIL



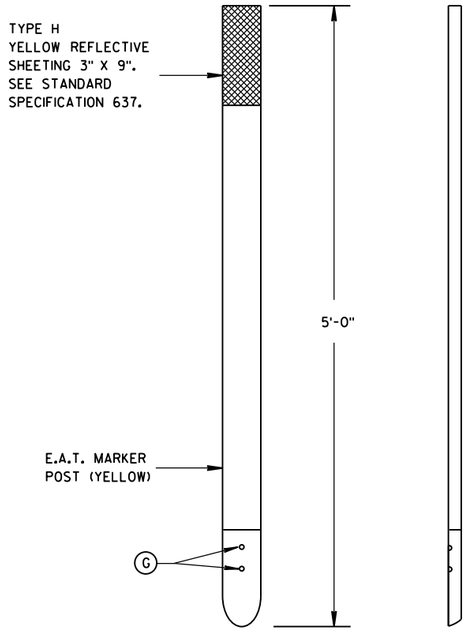
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





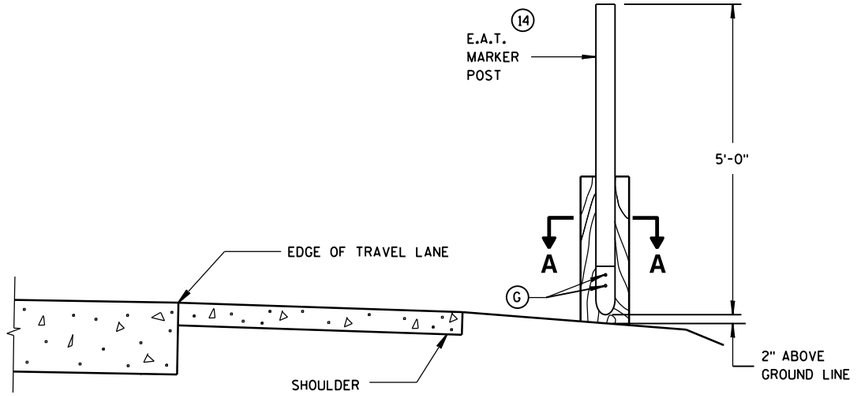
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

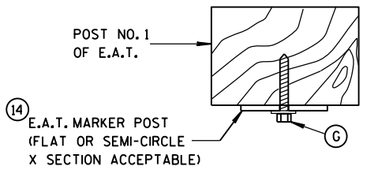
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

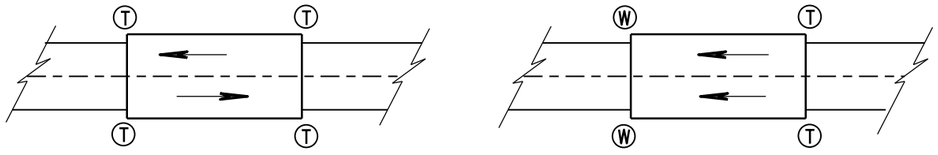
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 44-2c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

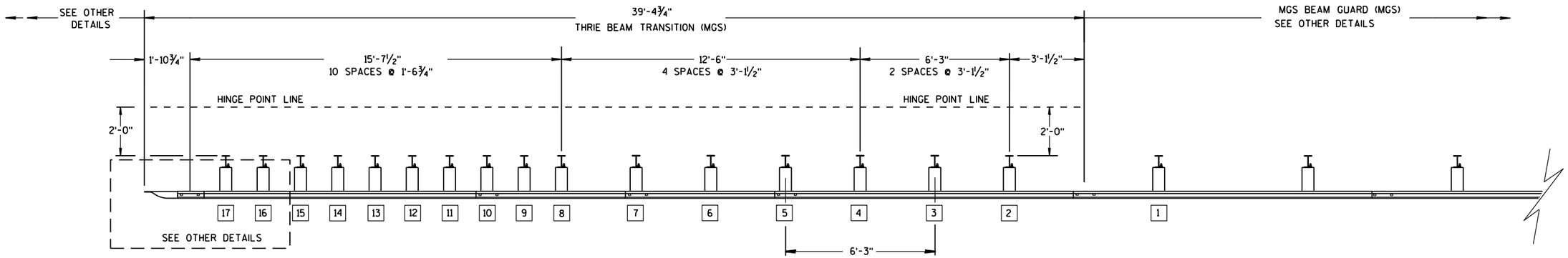
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

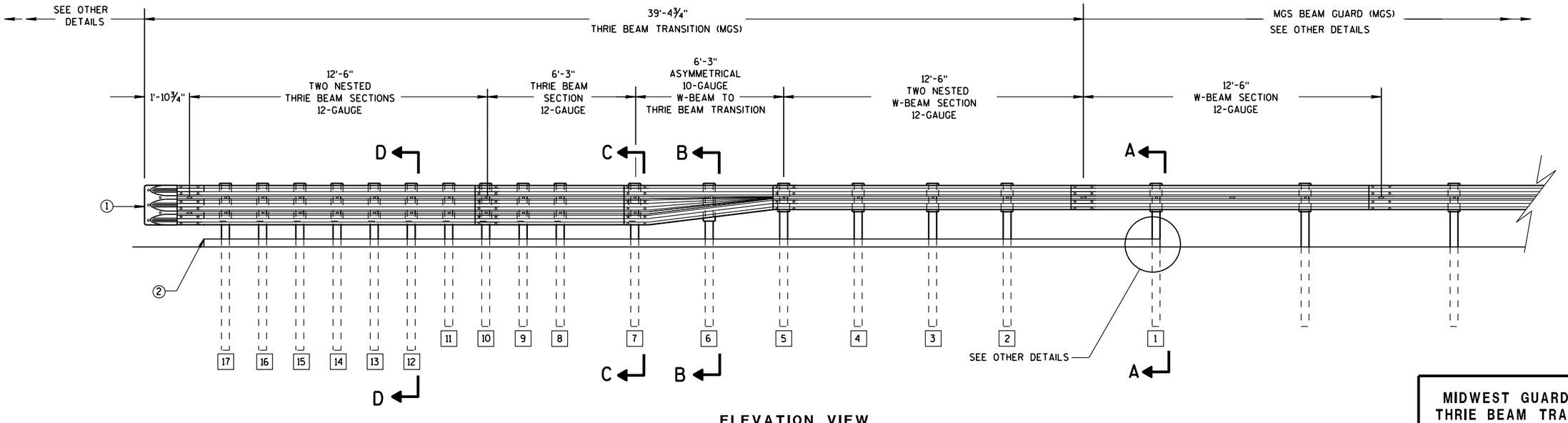
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

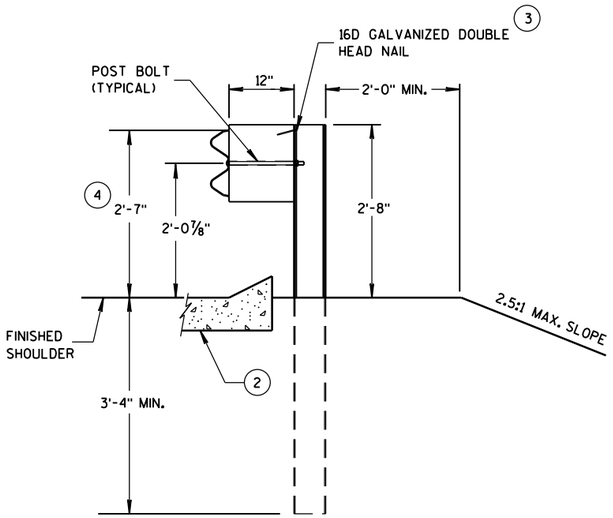
S.D.D. 14 B 45-4a

GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE_FEATURE SEE PLAN FOR INFORMATION.

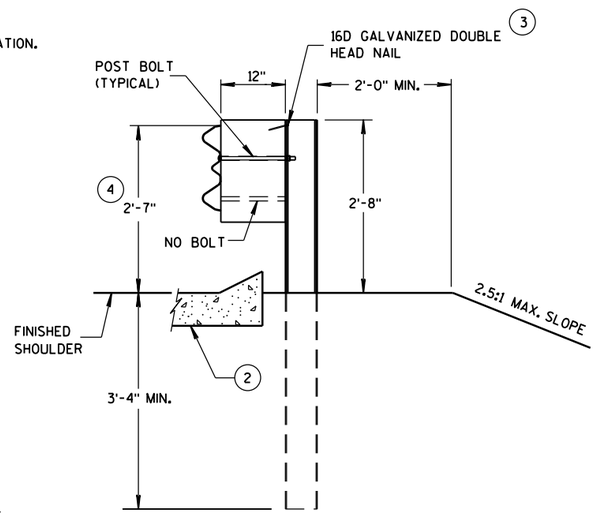
(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



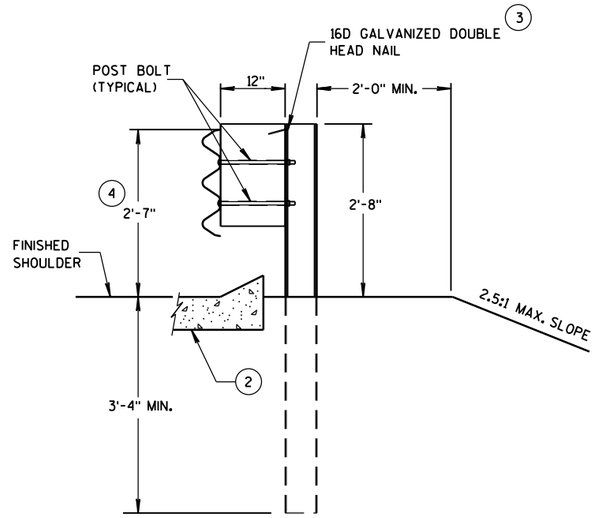
SECTION A-A

POSTS 1-5



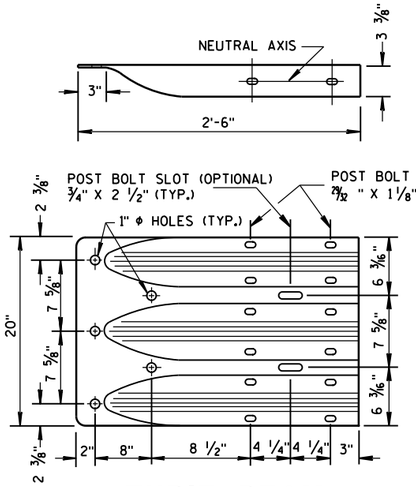
SECTION B-B

POST 6



SECTION C-C

POSTS 7-11



THRIE BEAM TERMINAL CONNECTOR

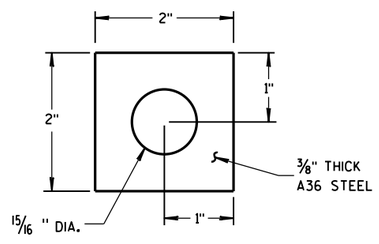
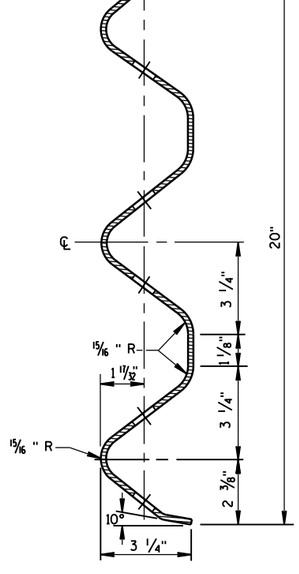
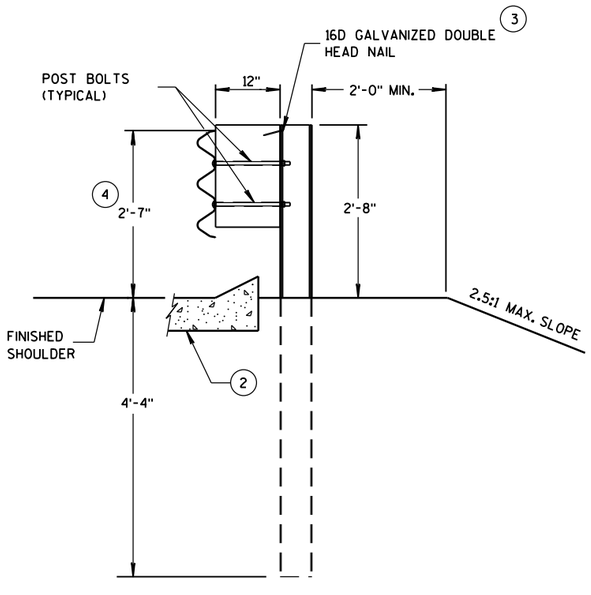


PLATE WASHER DETAIL

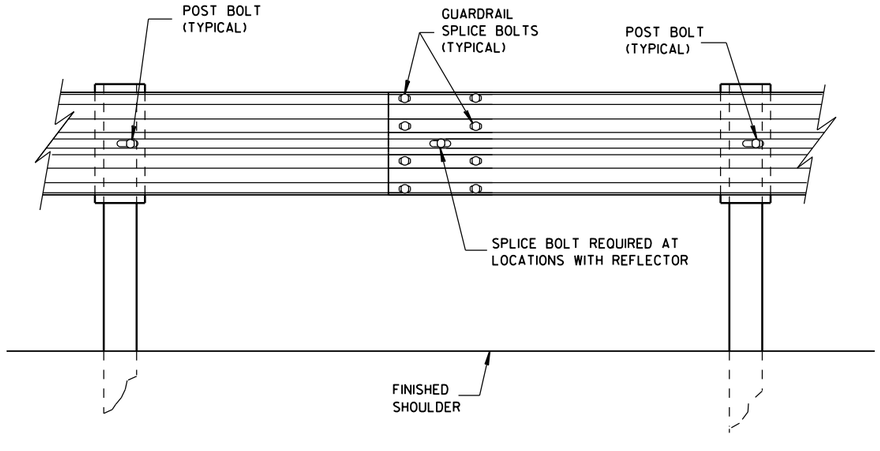


SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION D-D

POSTS 12-17



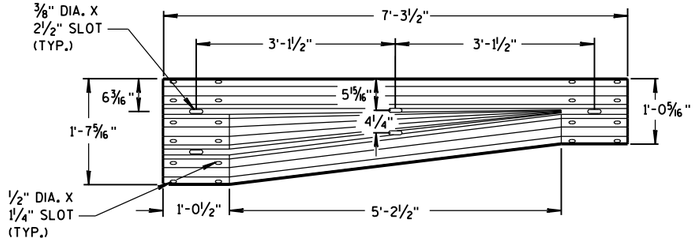
SPLICE DETAIL

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

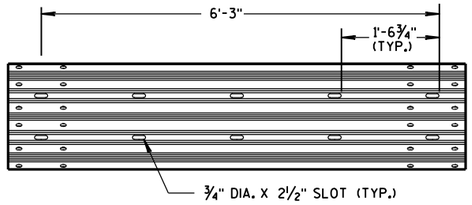
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

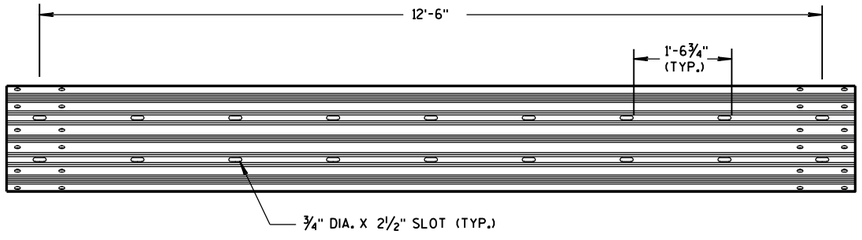
S.D.D. 14 B 45-4b



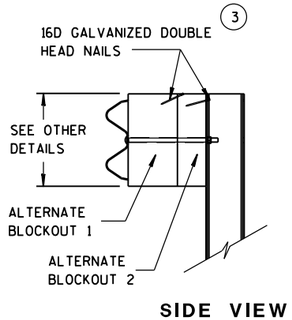
W-BEAM TO THRIE BEAM TRANSITION SECTION



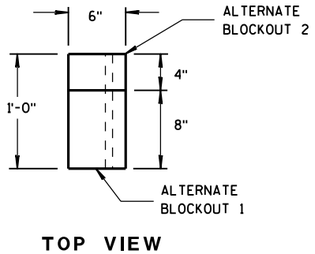
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

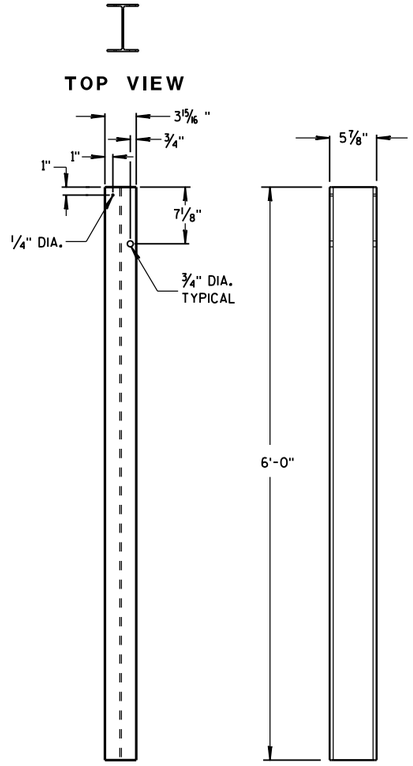


SIDE VIEW



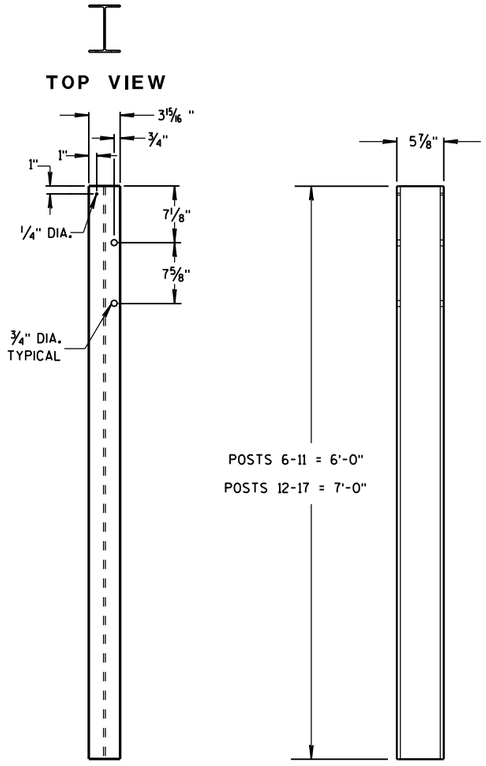
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



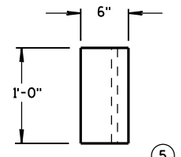
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5

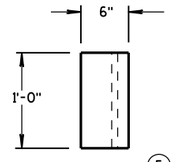


FRONT VIEW SIDE VIEW

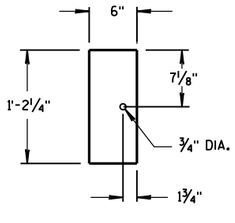
STEEL POSTS 6-17



TOP VIEW (5)

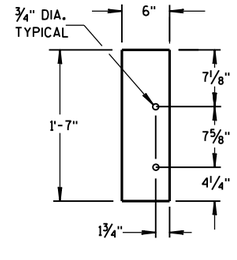


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

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

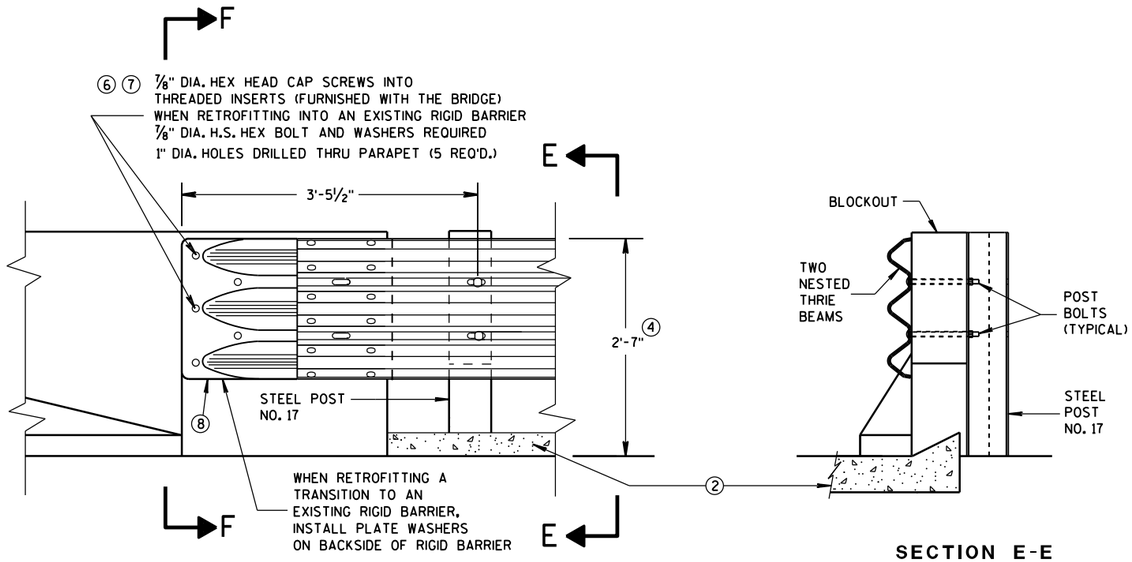
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 45-4c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

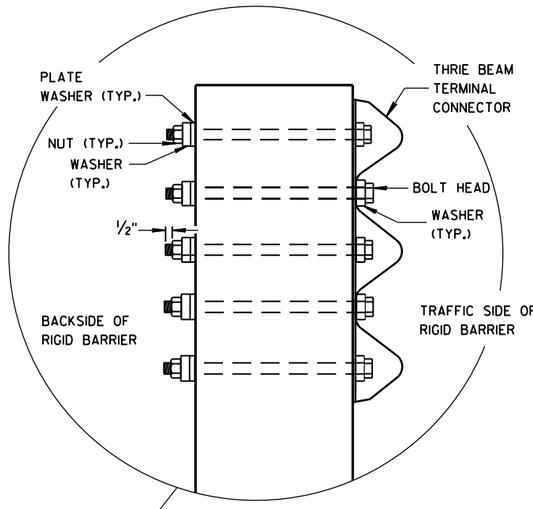
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

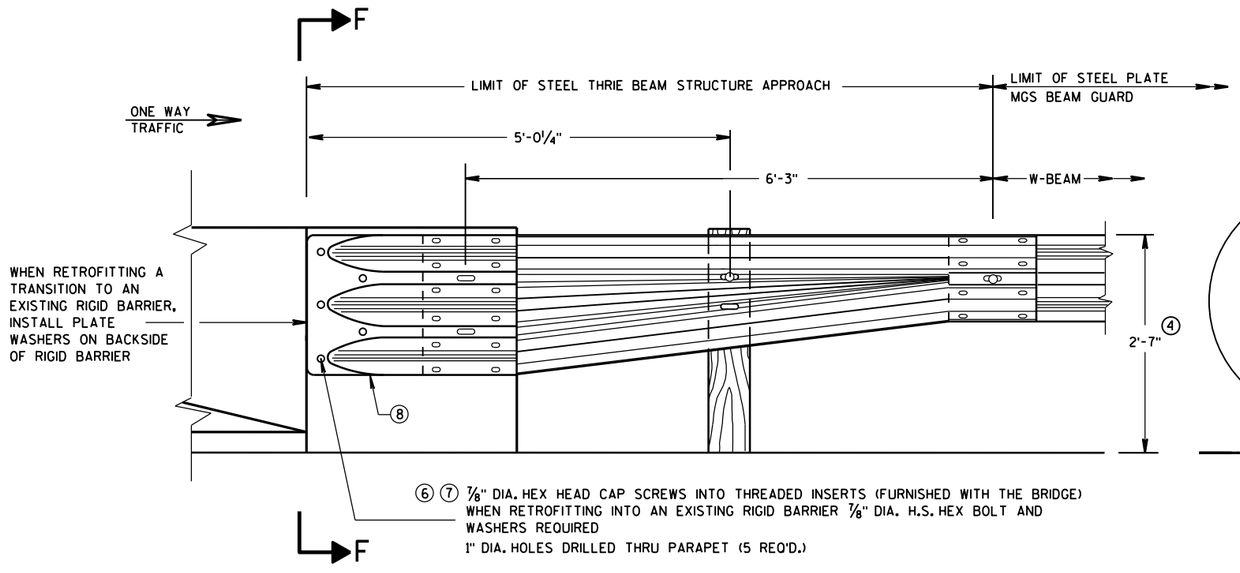
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

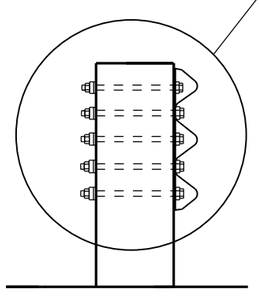
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

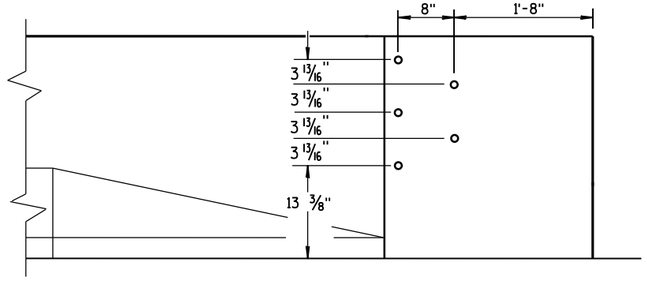




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
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GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

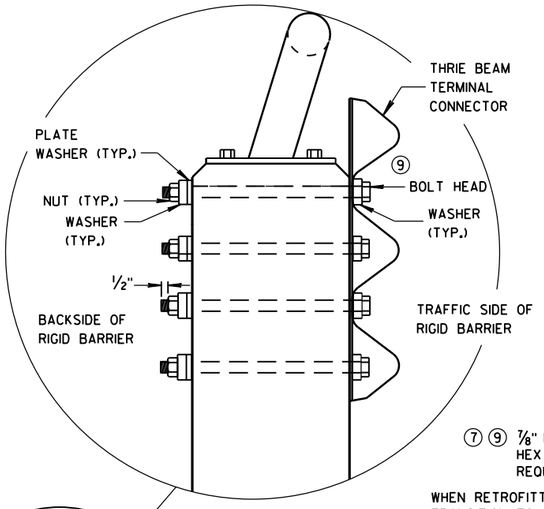
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

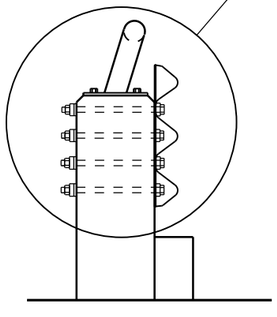
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

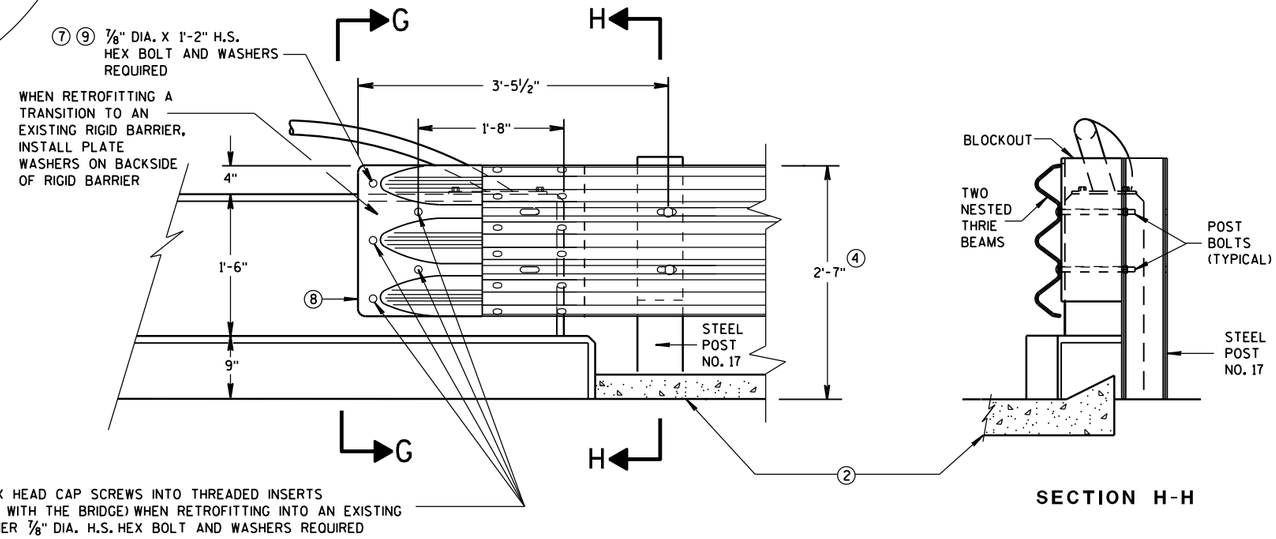
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





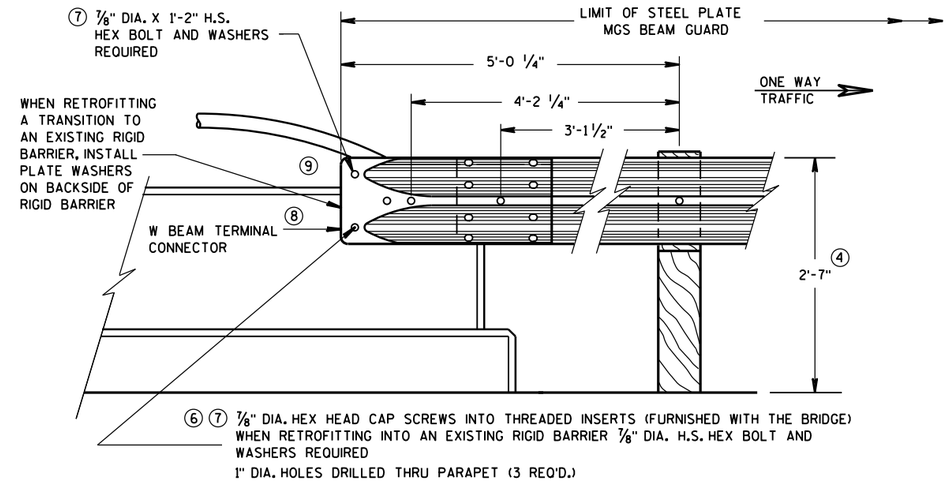
SECTION G-G



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

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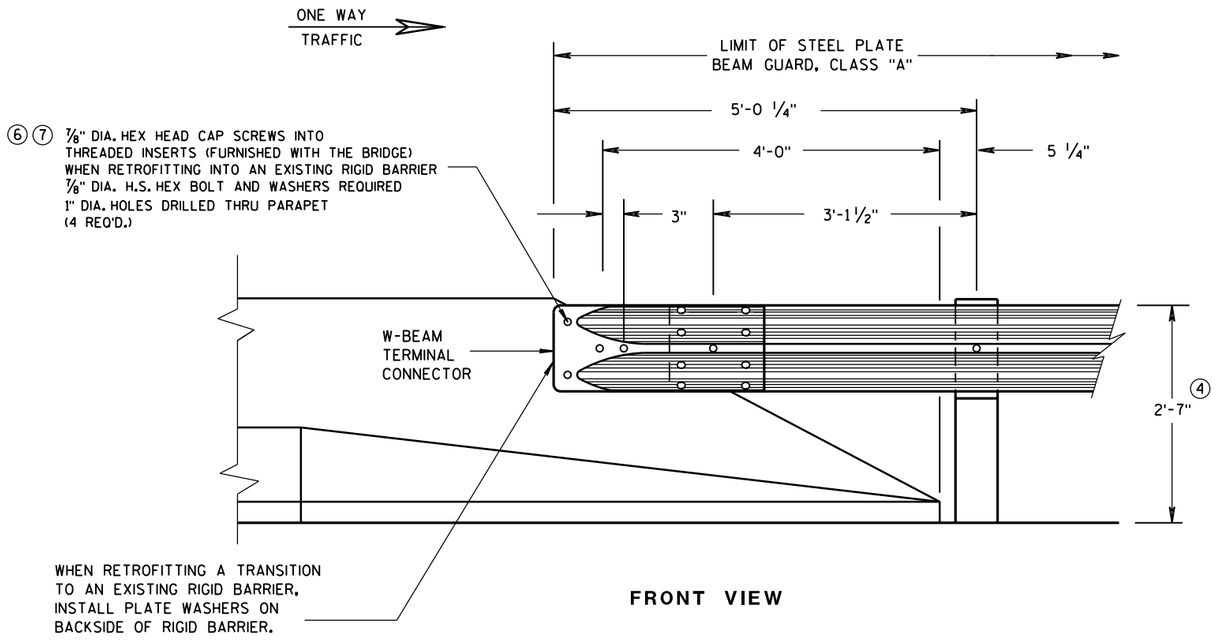


FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

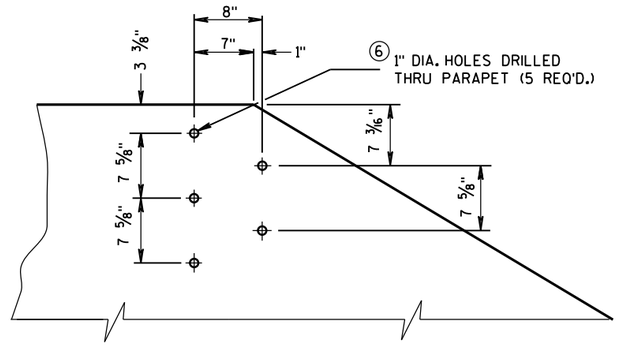
GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

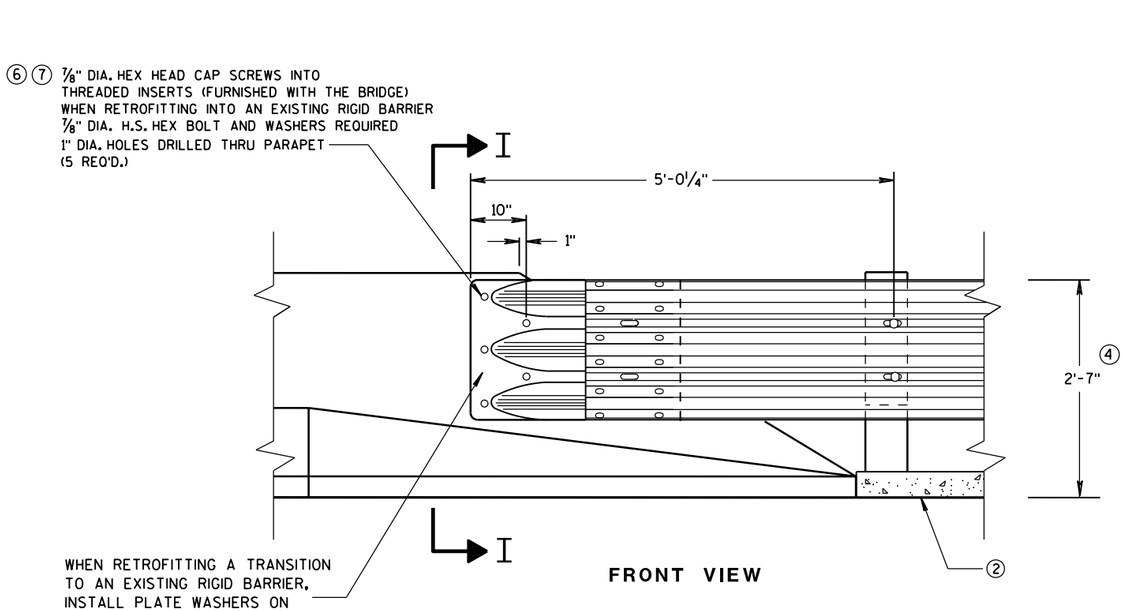
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

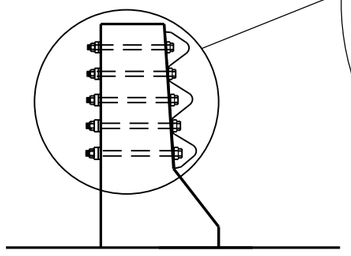
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



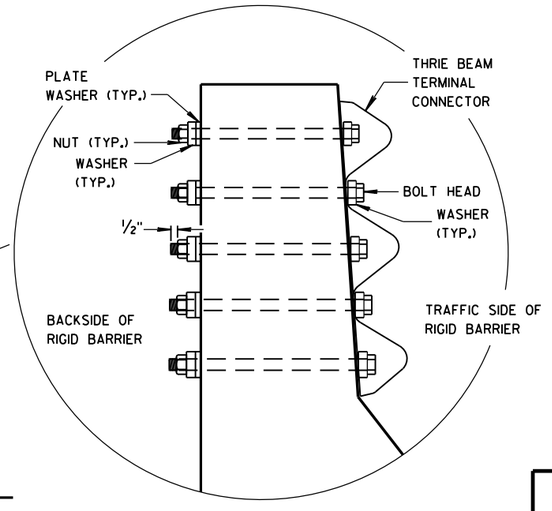
DRILL HOLE LOCATION AND PATTERN
FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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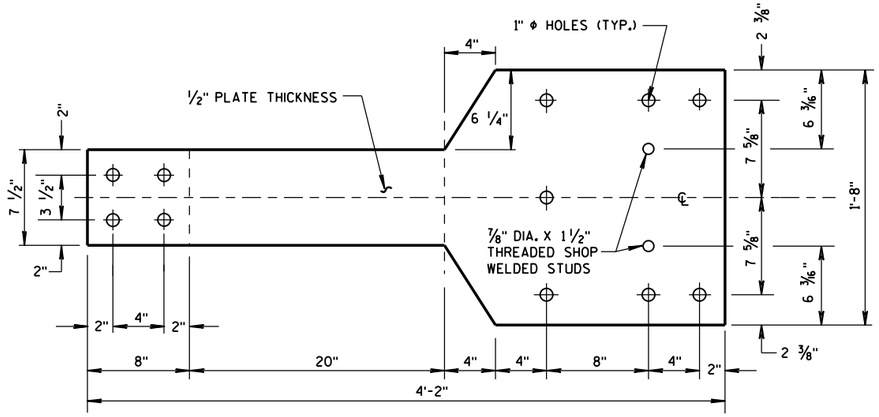
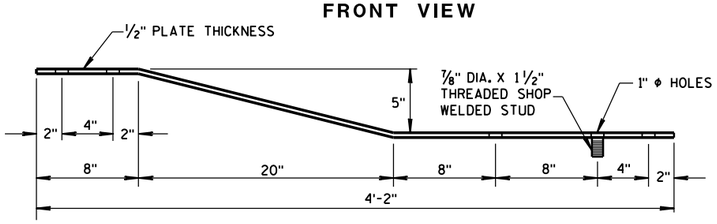
GENERAL NOTES

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

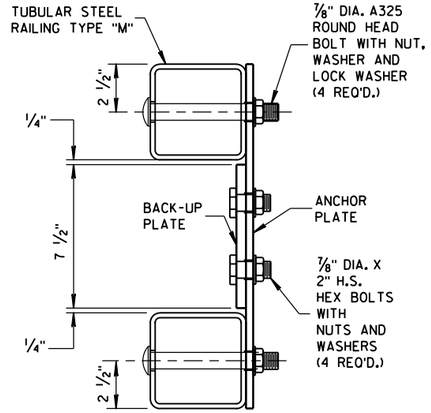


FRONT VIEW

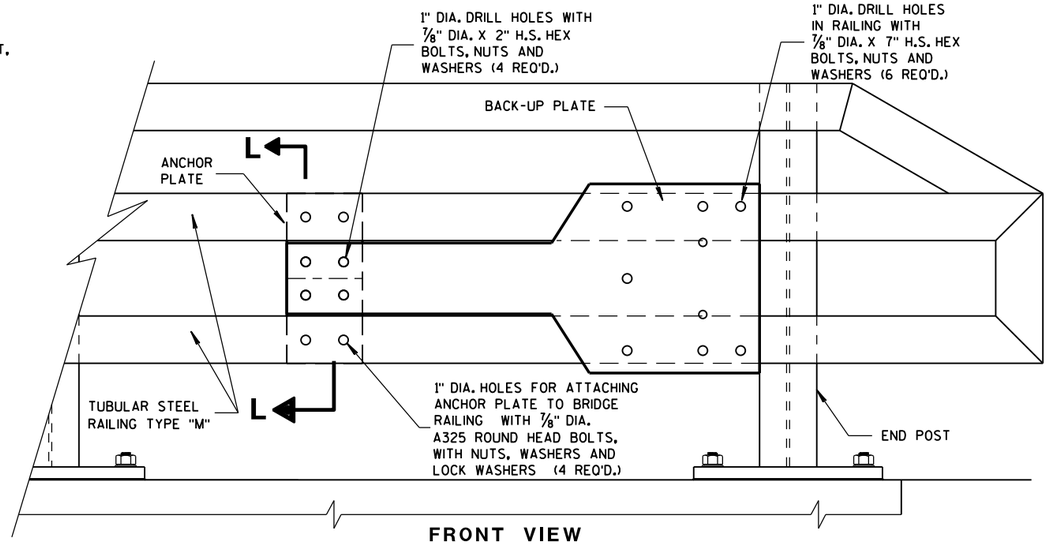


PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

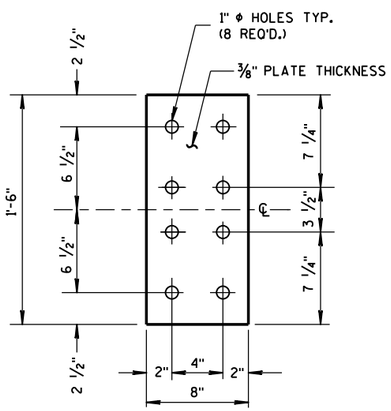


SECTION L-L



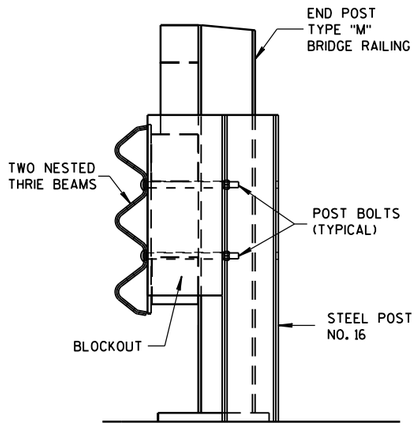
FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"

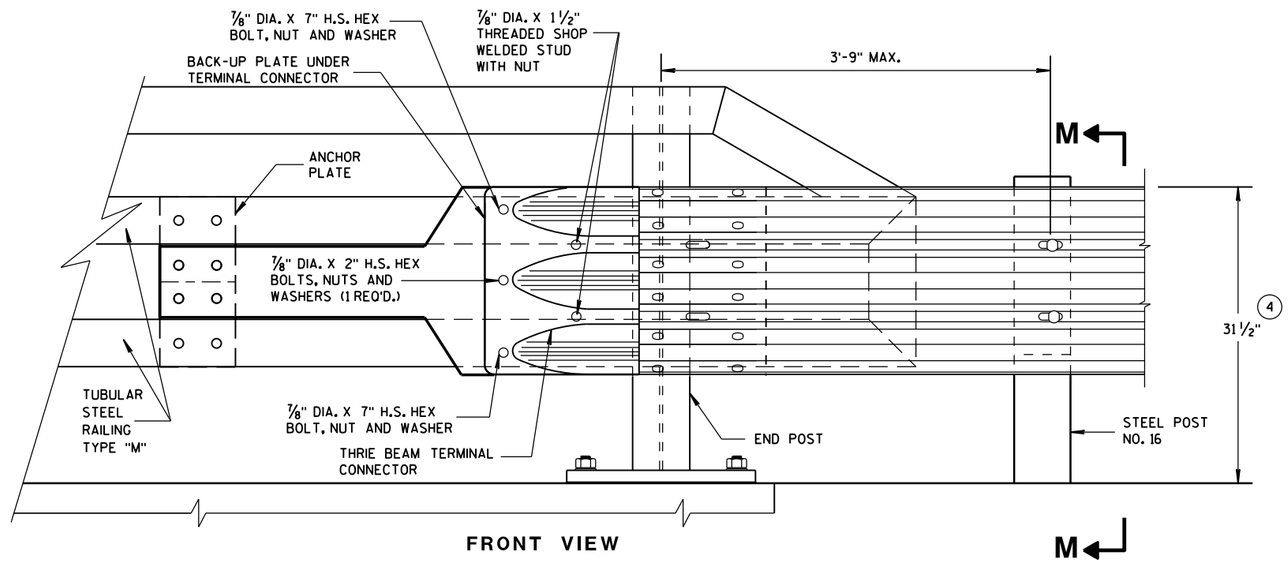


FRONT VIEW

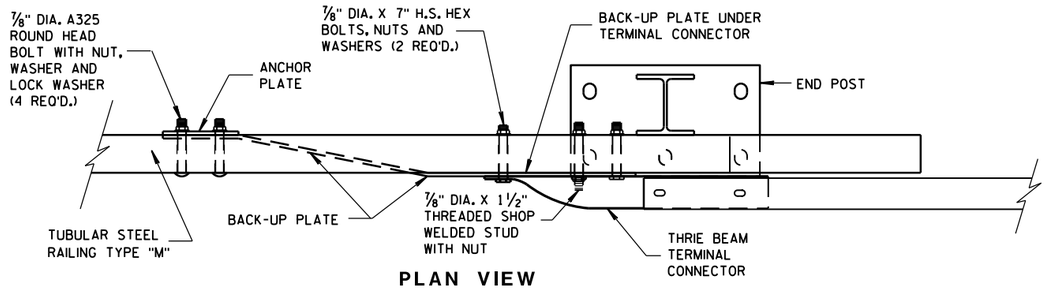
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
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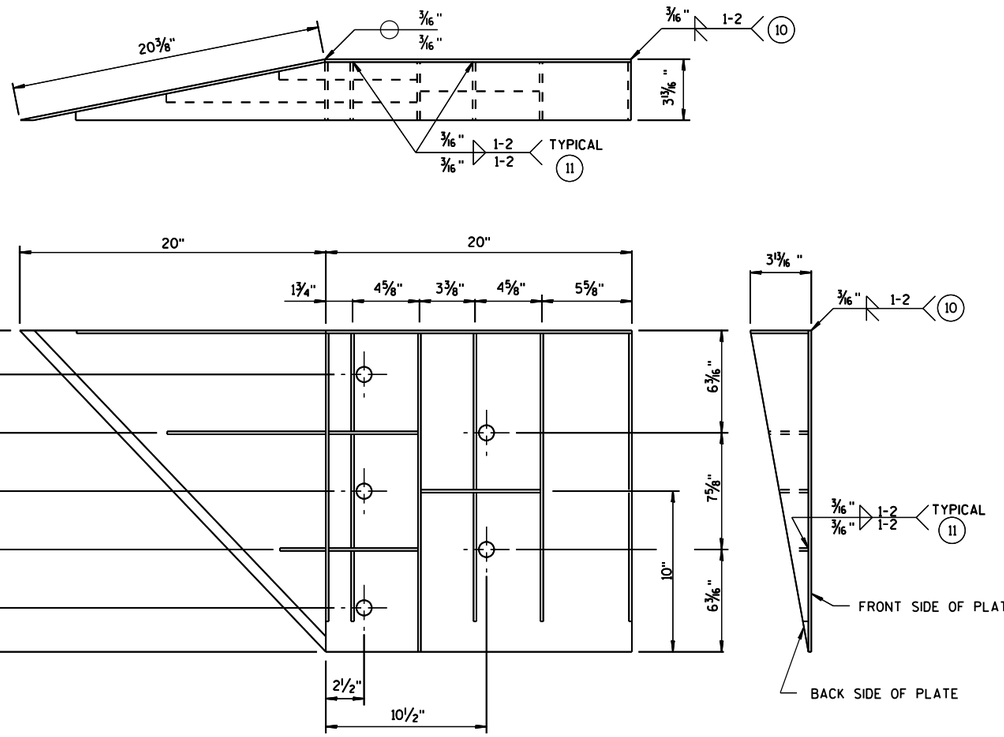

WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

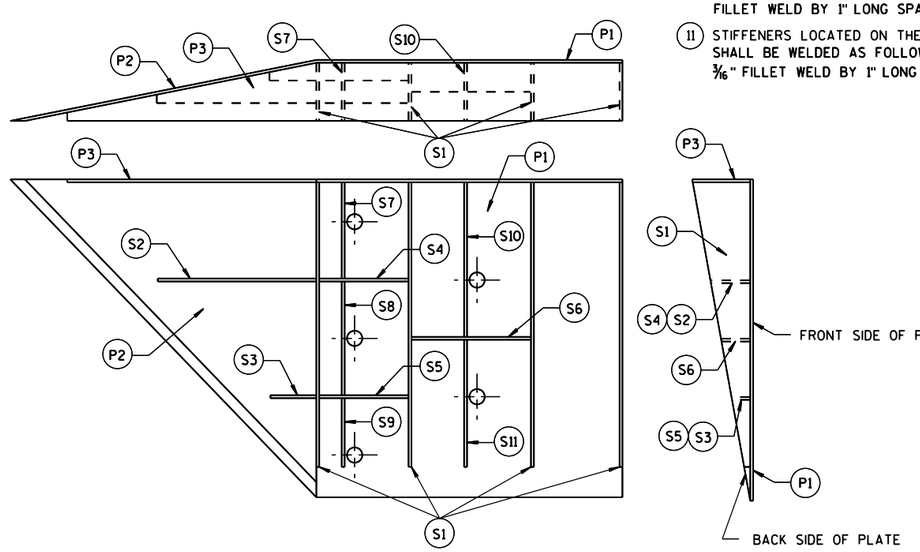

PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 3/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 1/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

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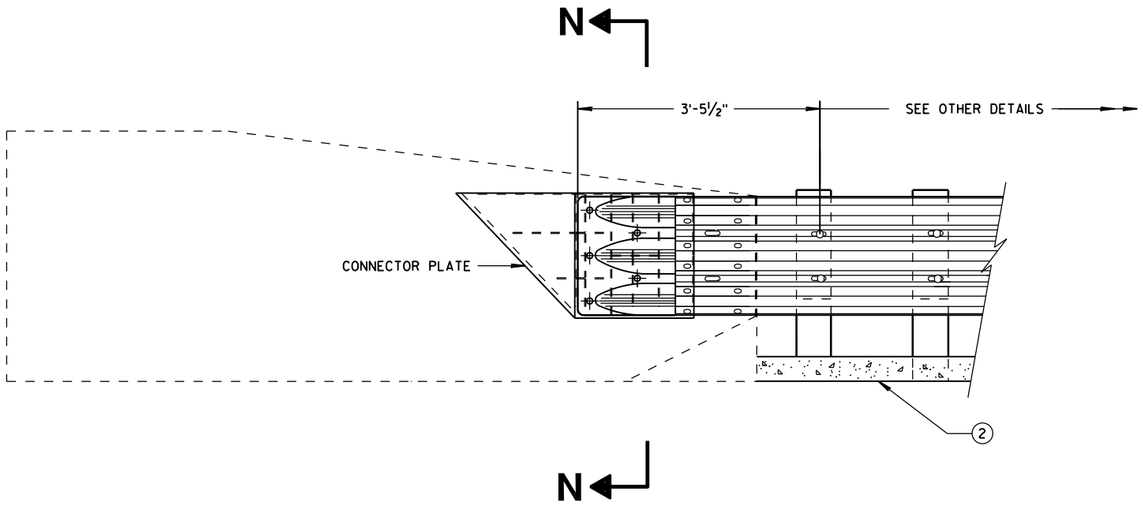
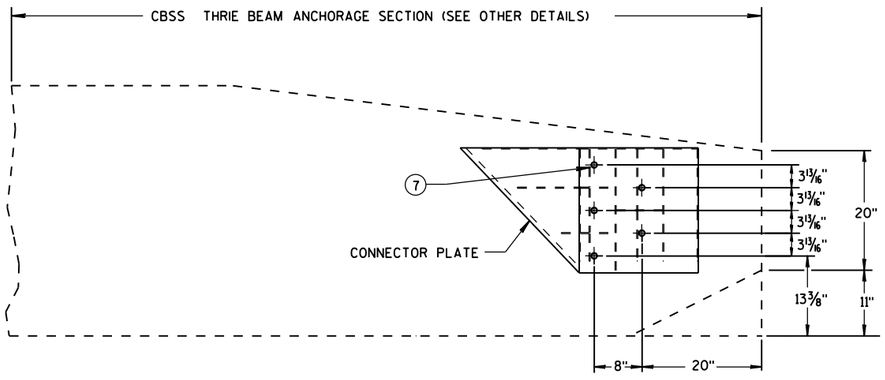


THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



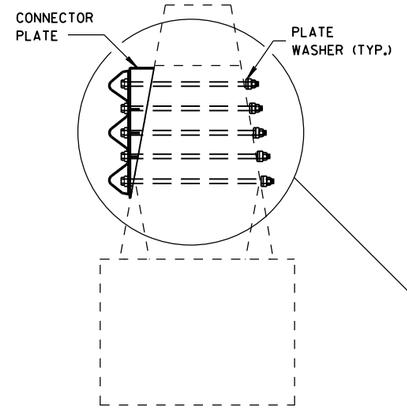
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

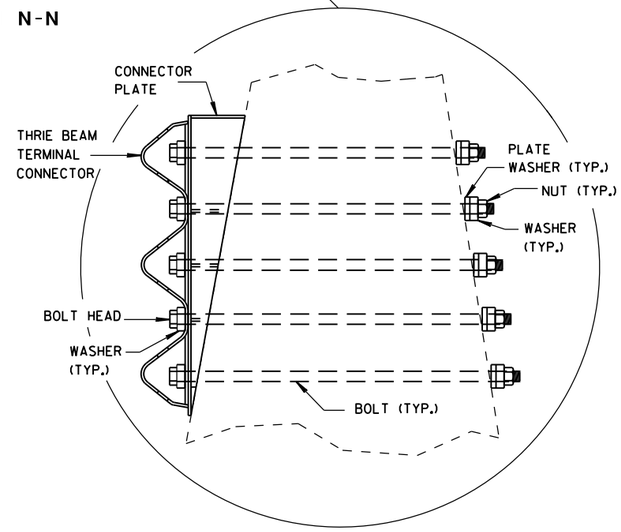
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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APPROVED
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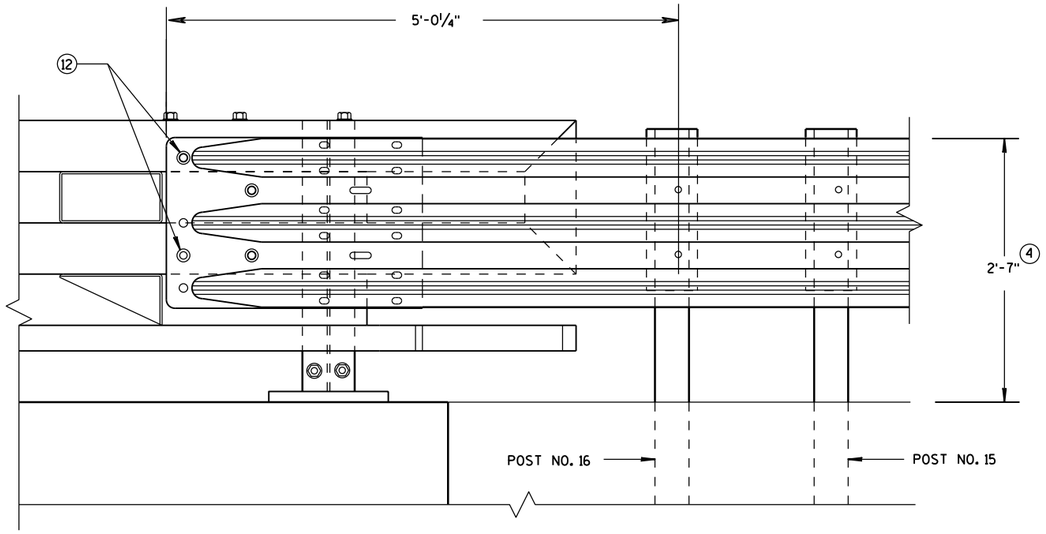
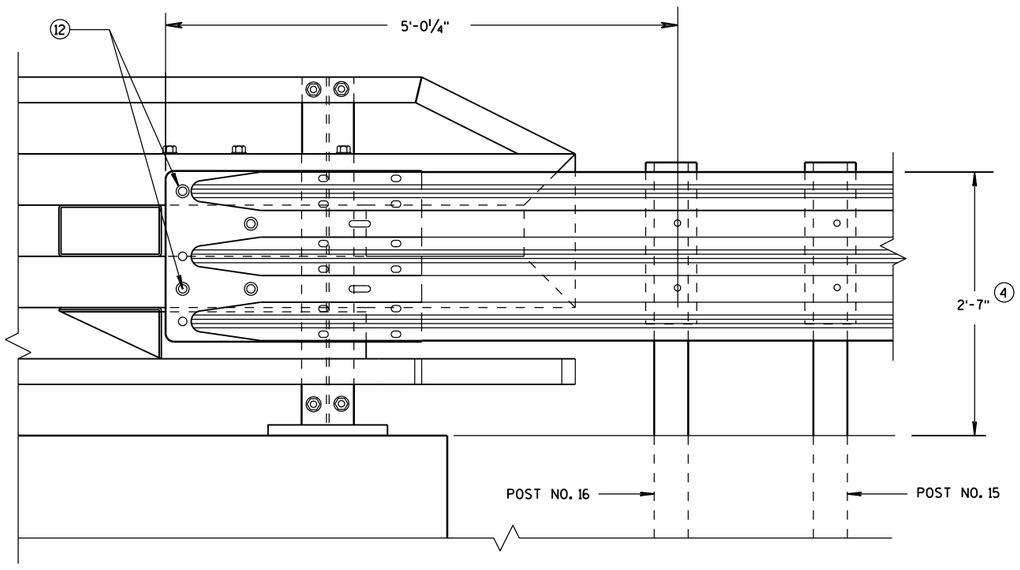


ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND ½-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

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APPROVED
June, 2015
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS D 415 NT
ENGINEER

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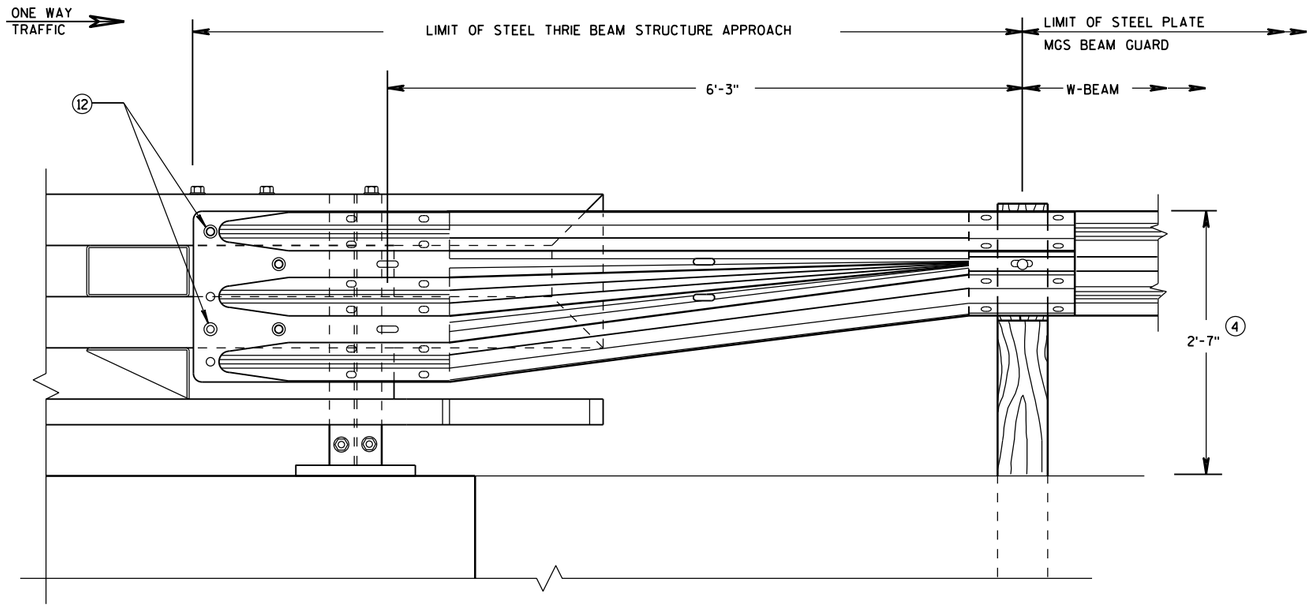
S.D.D. 14 B 45-4k



FRONT VIEW

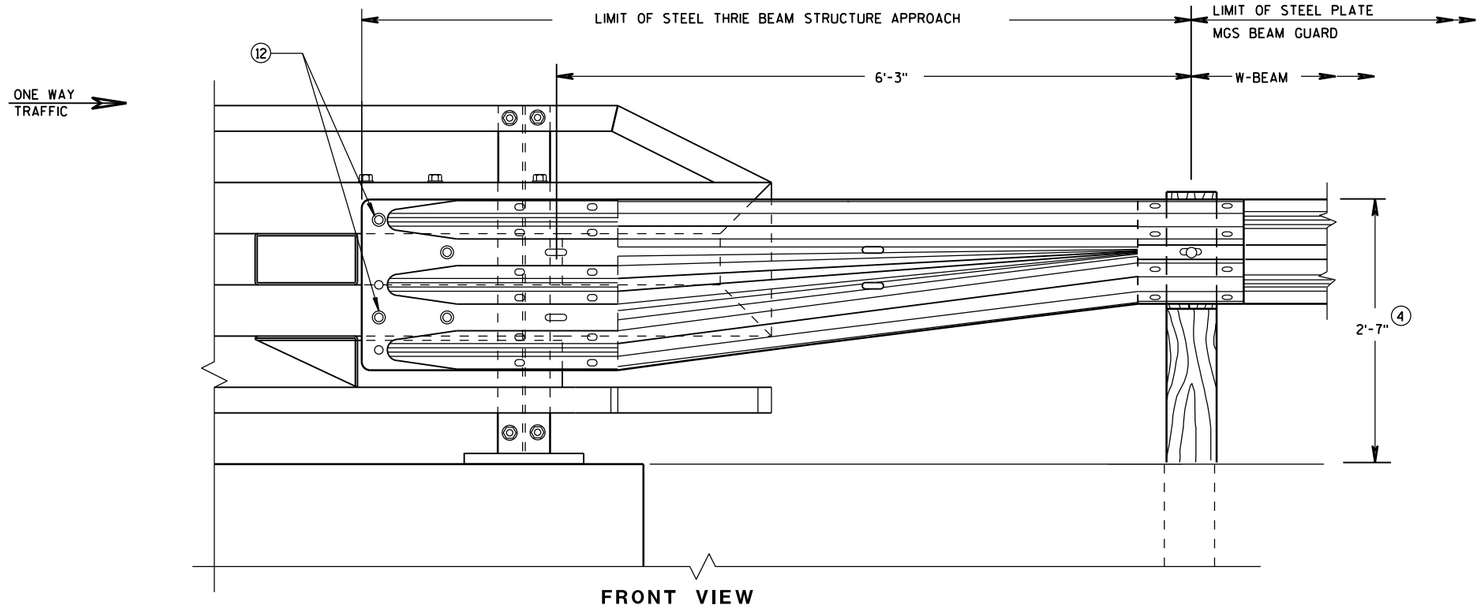
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND ½-INCH BEYOND NUT.



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

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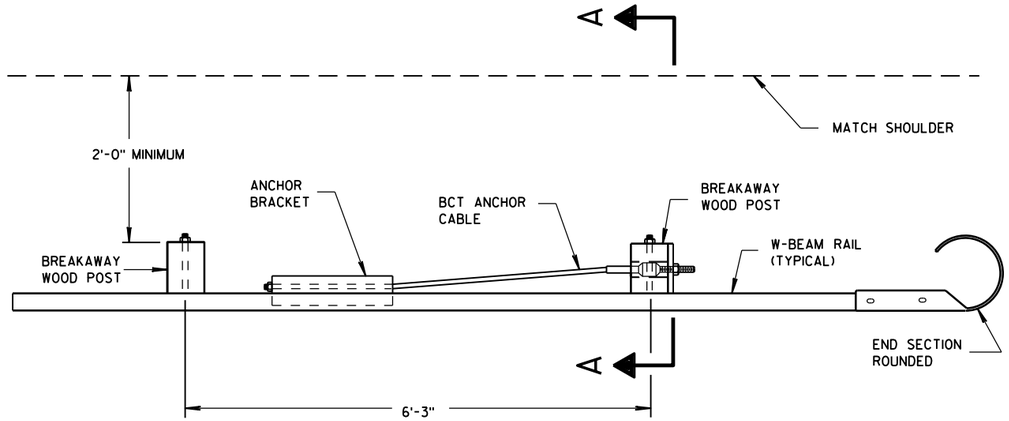
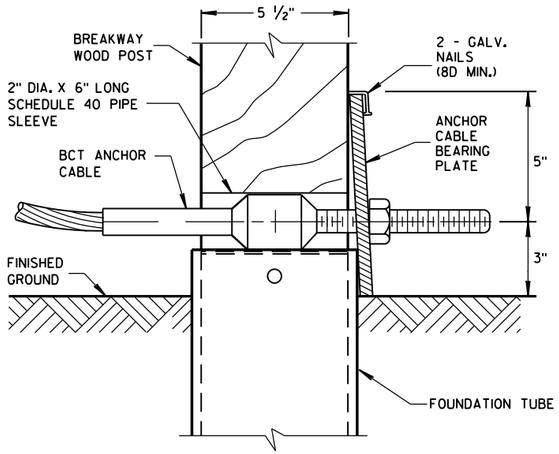


PLAN VIEW



DETAIL A

POST NO. 1
GROUNG STRUT NOT SHOWN FOR CLARITY.

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

END SECTION BOLTS AND NUTS HAVE THE SAME MATERIAL REQUIREMENTS AS SPLICE BOLTS.

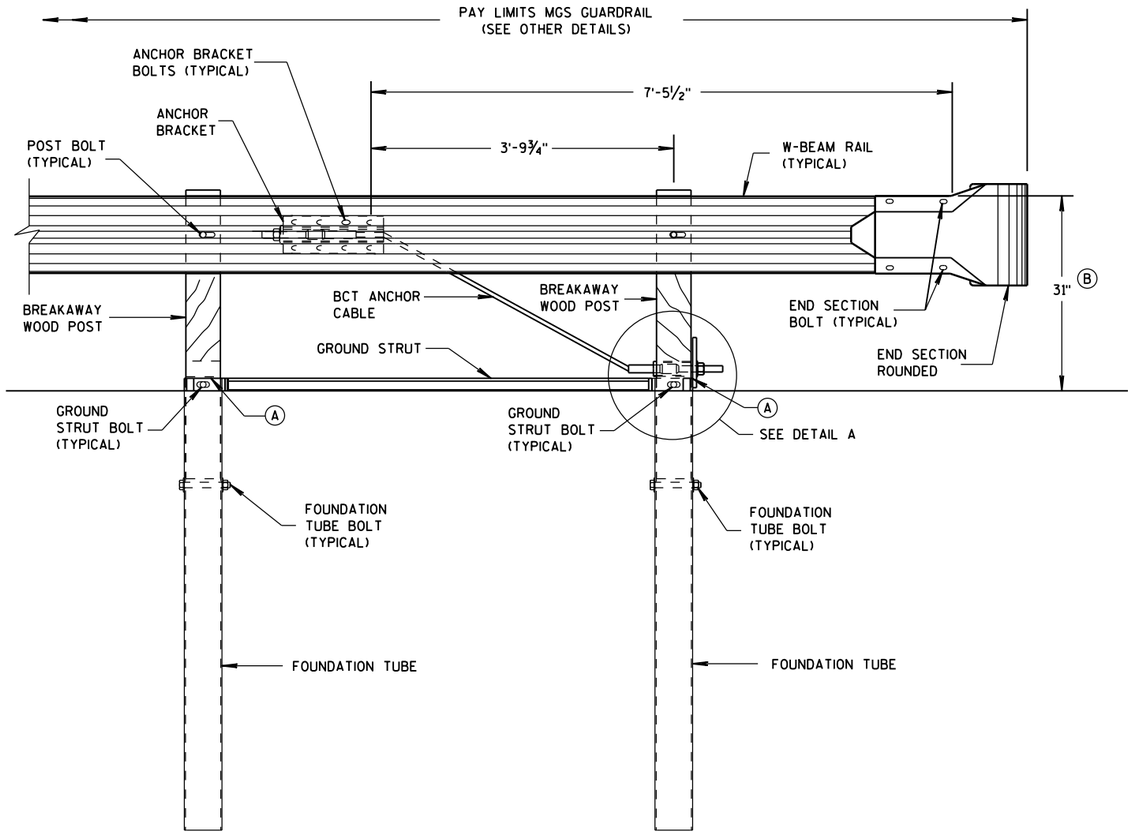
FOUNDATION TUBE BOLTS ARE ⅞" DIAMETER ASTM A307 HEX HEAD BOLT. FOUNDATION TUBE BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅞" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

ANCHOR BRACKET AND GROUND STRUT BOLTS ARE A ⅝" DIAMETER ASTM A307 HEX HEAD BOLT. ANCHOR BRACKET BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅝" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

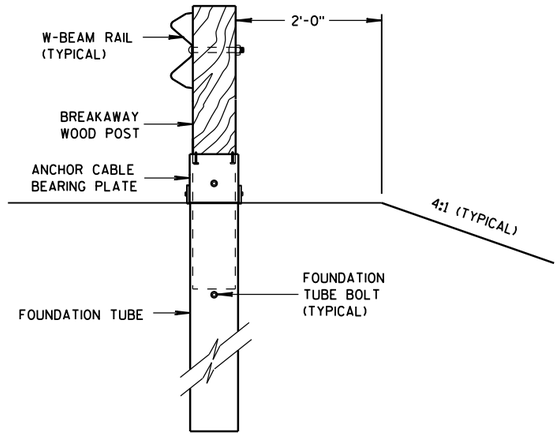
(A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.

(B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1".
FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27¾" TO 32" ± 1".

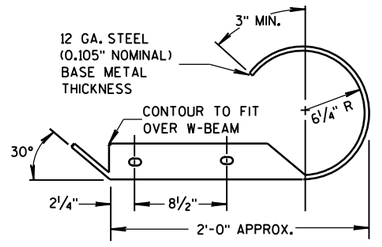


FRONT VIEW

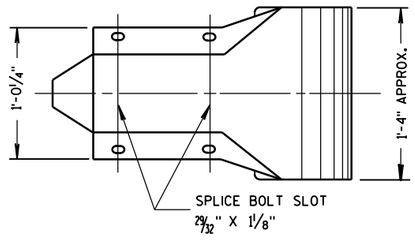
END RAIL DETAIL



SECTION A-A



PLAN VIEW



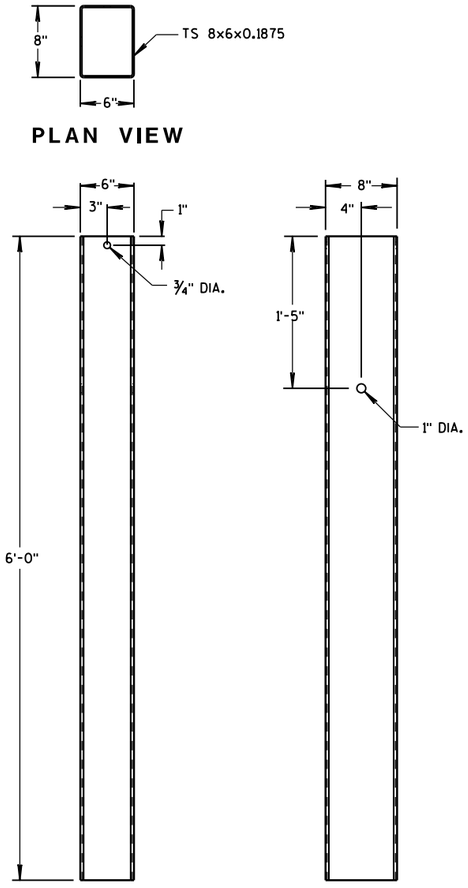
FRONT VIEW

W BEAM END SECTION ROUNDED

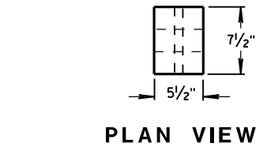
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

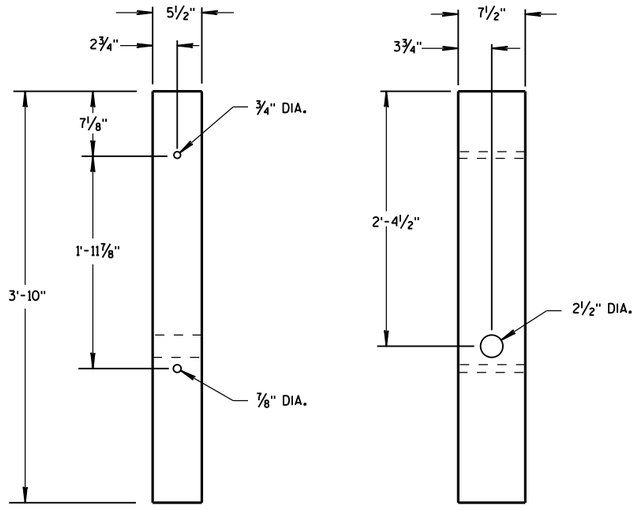
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 47-2a



FOUNDATION TUBE



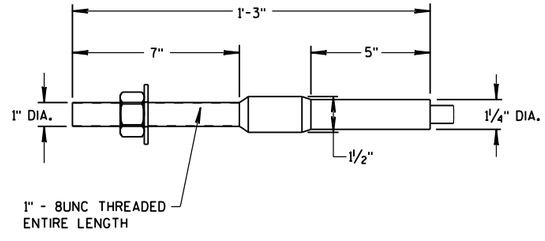


BREAKAWAY WOOD POST

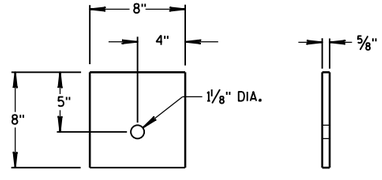
GENERAL NOTES

BCT ANCHOR CABLE IS A ¾" DIAMETER 6X19 IWRC IPS GALVANIZED WIRE ROPE. THE SWAGED FITTINGS AND STUD ARE REQUIRED. END FITTING SHALL BE MACHINED FROM HOT-ROLLED CARBON STEEL CONFORMING TO ASTM A576 GRADE 1035 AND GALVANIZED ACCORDING TO ASTM A123. TREADED STUD SHALL CONFORM TO ASTM A325 OR SAE GRADE 5. MINIMUM BREAKING STRENGTH OF WIRE ROPE IS 43,000 LB. WIRE ROPE IS TO BE TAUT.

BCT ANCHOR CABLE



DETAIL B



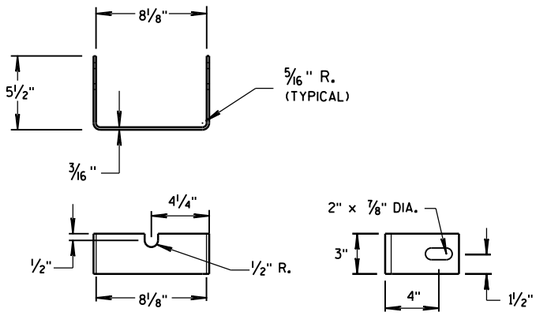
ANCHOR CABLE
BEARING PLATE

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

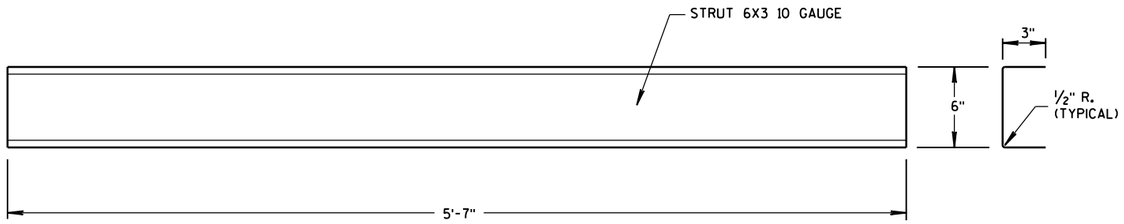
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

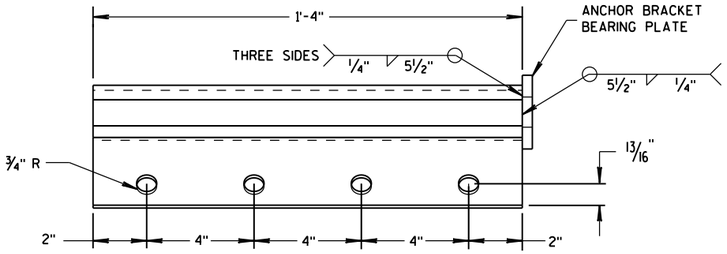
S.D.D. 14 B 47-2b

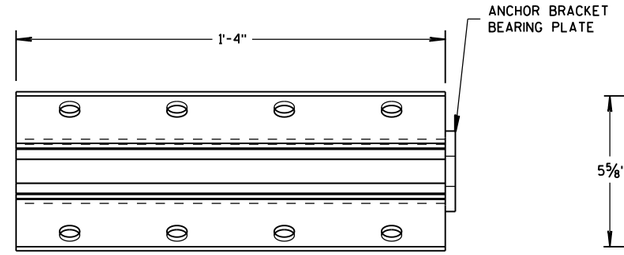


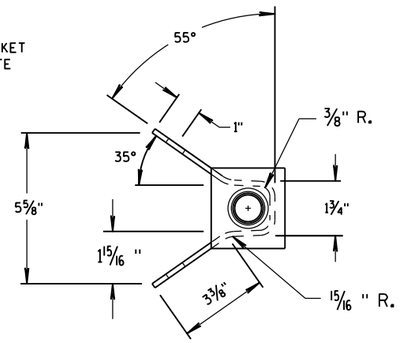
YOKE DETAIL



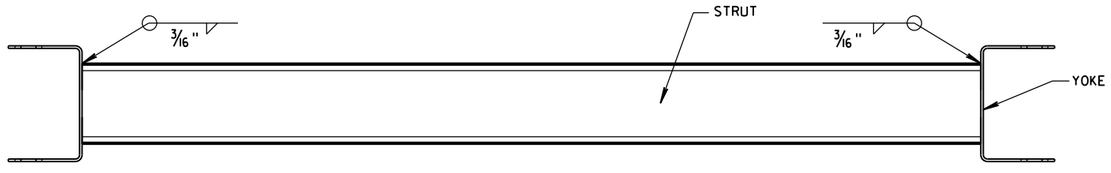
STRUT DETAIL



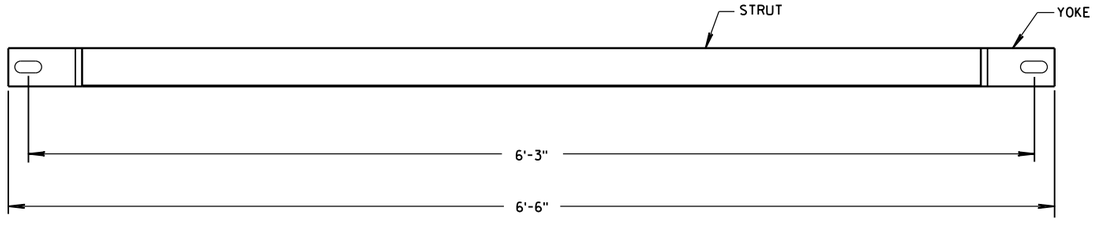




ANCHOR BRACKET

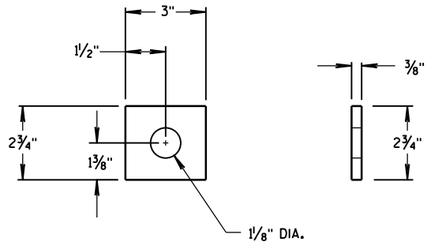


PLAN VIEW



FRONT VIEW

GROUND STRUT DETAIL



ANCHOR BRACKET BEARING PLATE

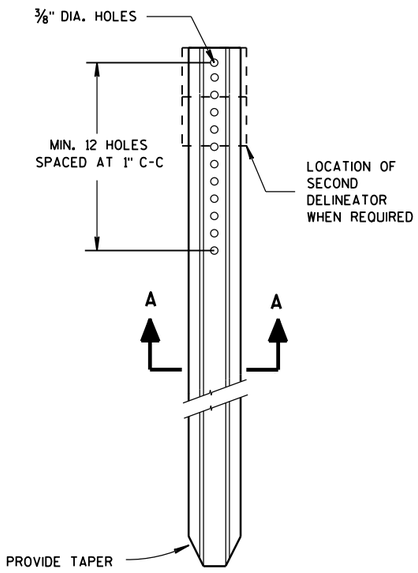
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

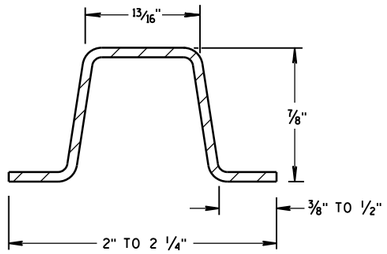
APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 47-2c

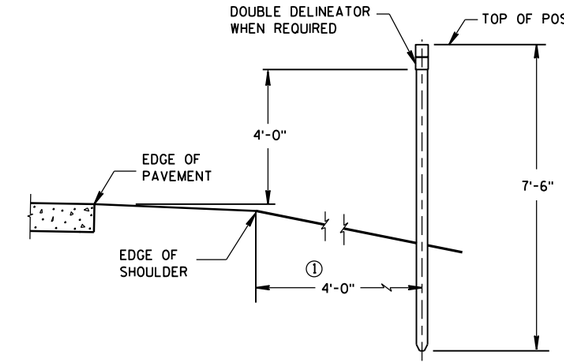


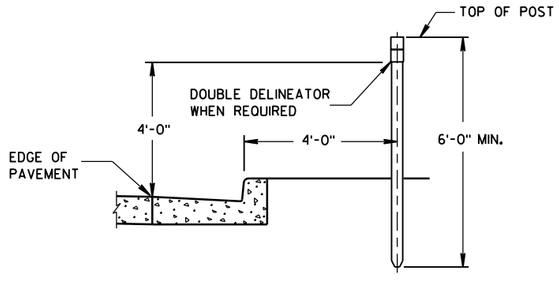
DELINEATOR POST



SECTION A-A

WEIGHT 1.12 LBS PER FT. ± 0.1 LB.



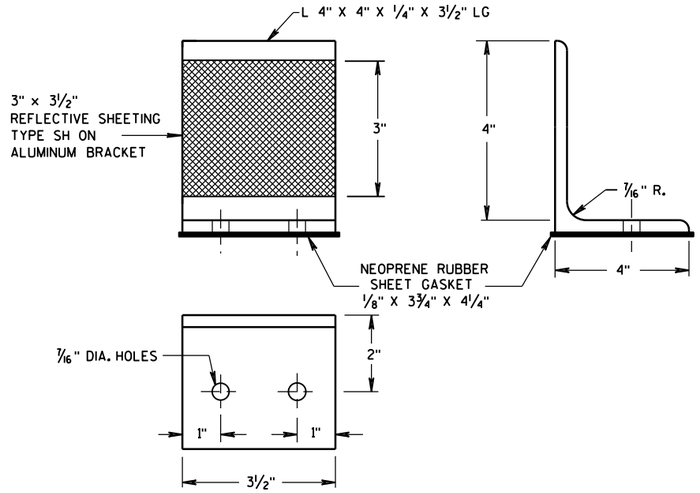


TYPICAL INSTALLATIONS OF DELINEATOR POSTS

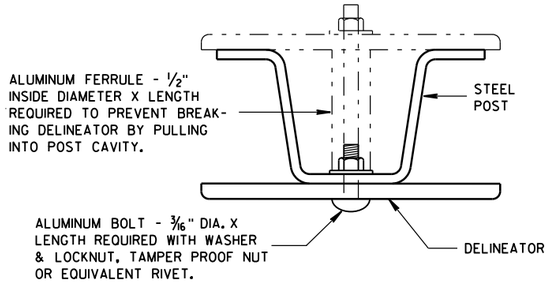
GENERAL NOTES

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

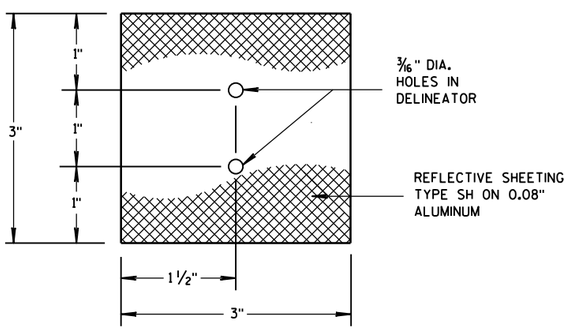
① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.



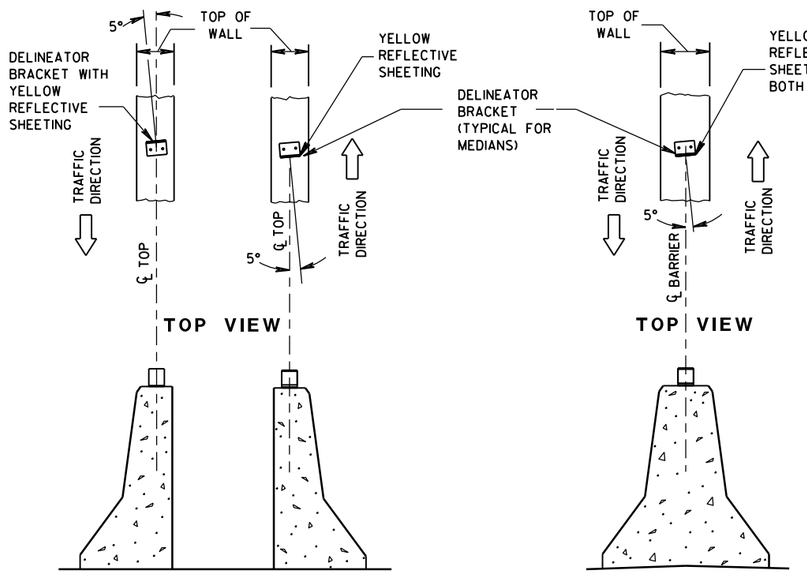
DELINEATOR BRACKET



MOUNTING DETAIL FOR DELINEATOR

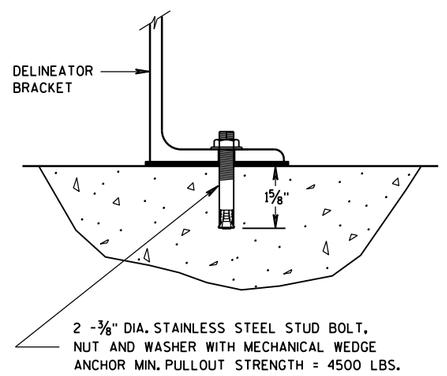


3"x 3" DELINEATOR



DOUBLE BARRIERS IN MEDIAN | MEDIAN BARRIER | BARRIER LOCATED TO RT. OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR DELINEATOR BRACKETS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET MOUNTING DETAIL

DELINEATOR POST, DELINEATOR, AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC E
FHWA

6

S.D.D. 15 A 2-8

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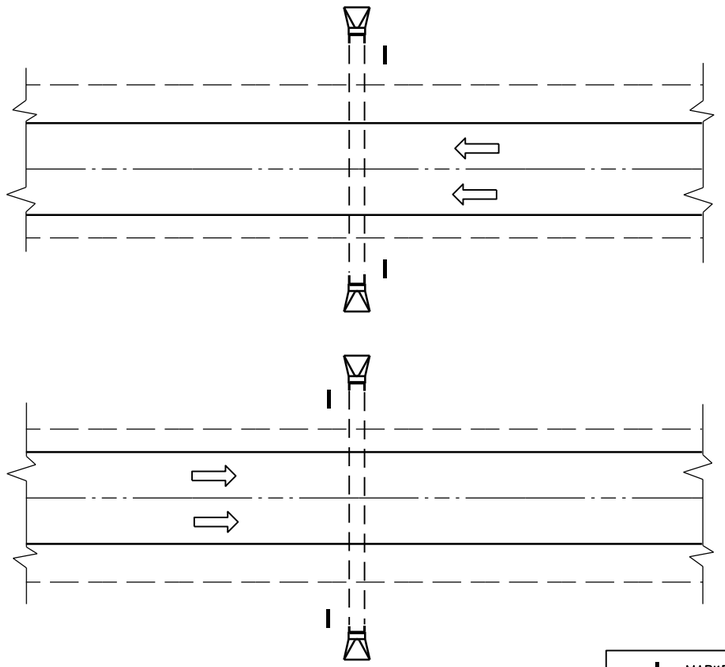
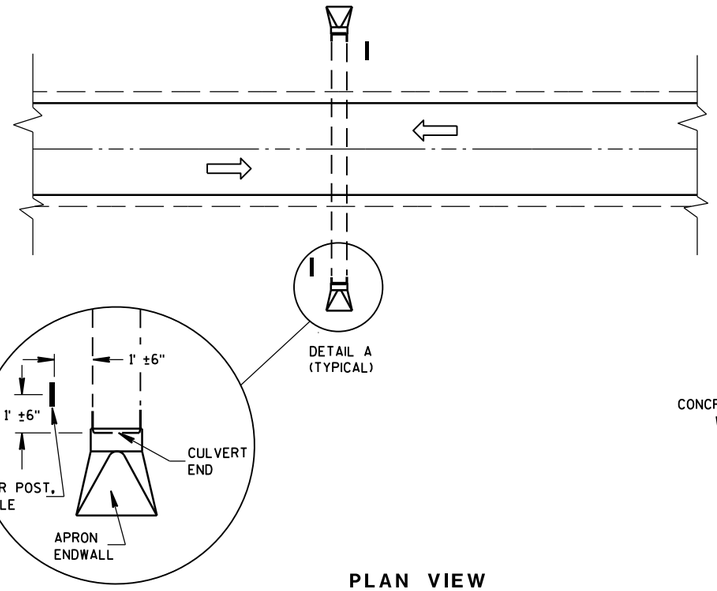
S.D.D. 15 A 2-8



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

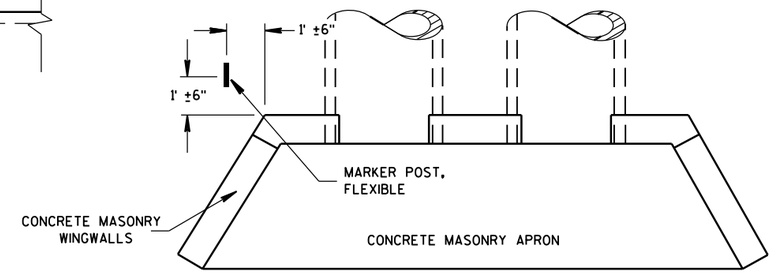
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

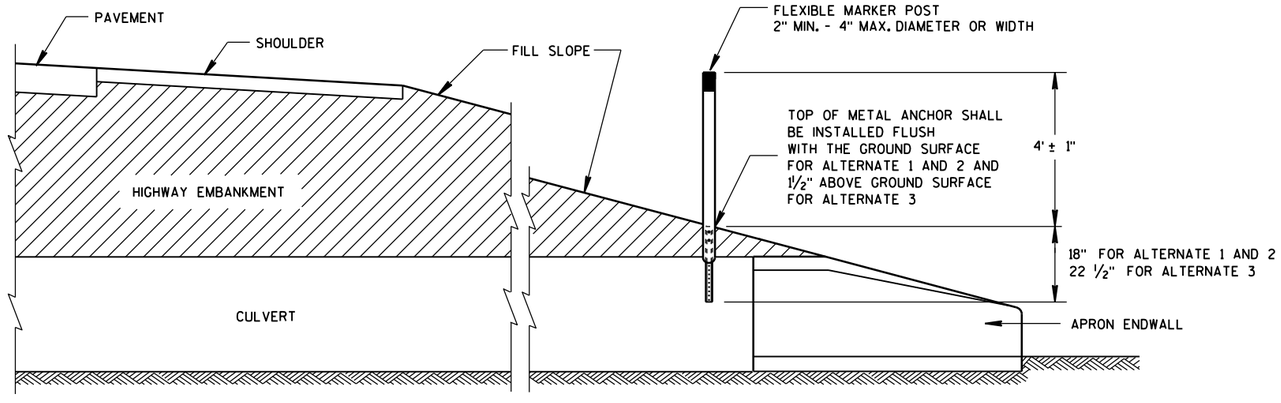
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 A 3-2a

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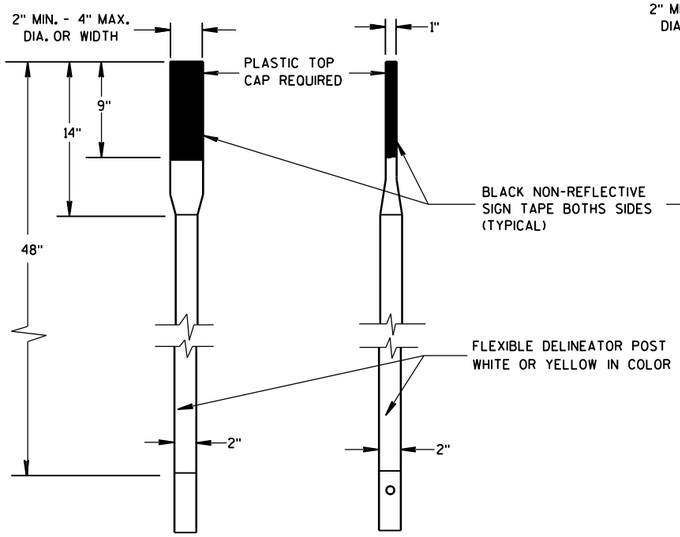
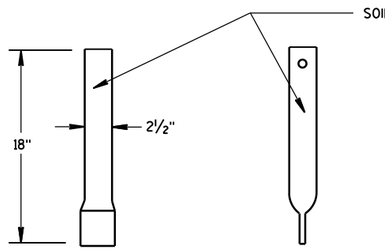
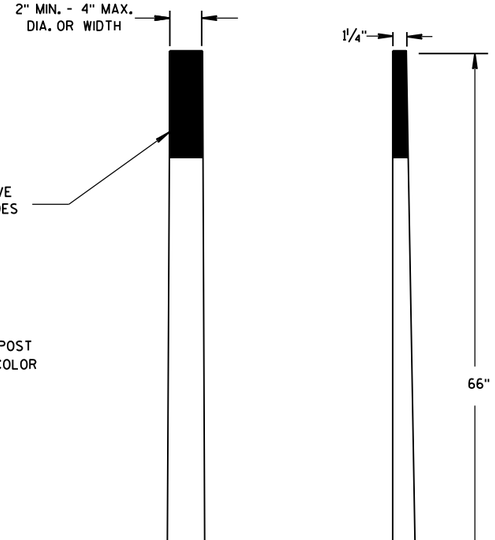
S.D.D. 15 A 3-2a





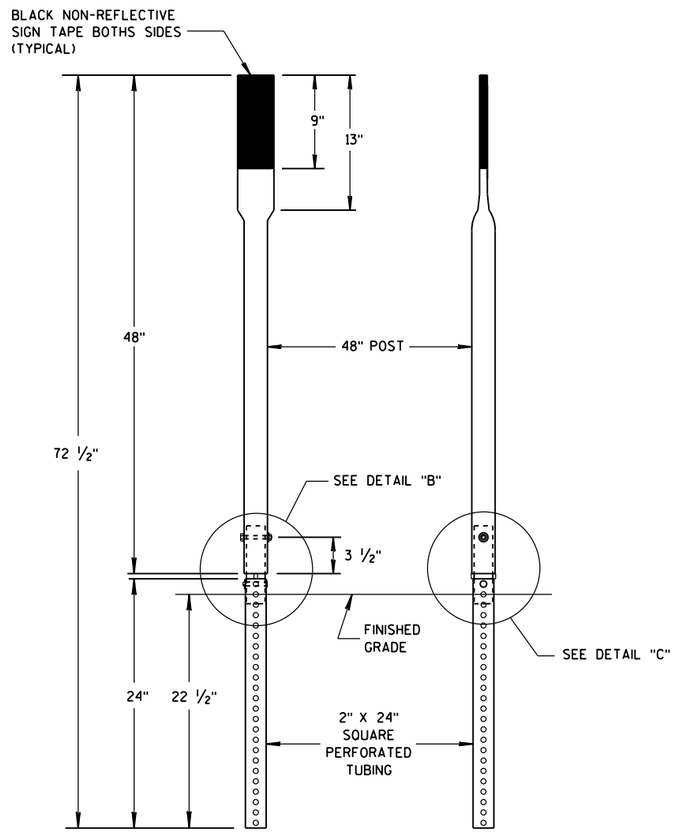
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

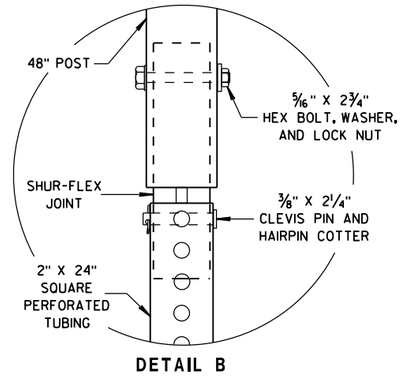
ALTERNATE 2



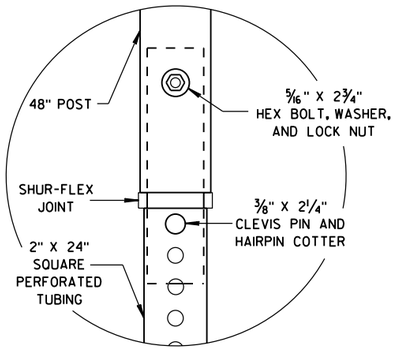
FRONT VIEW SIDE VIEW

ALTERNATE 3

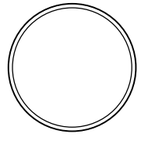
FLEXIBLE MARKER POSTS



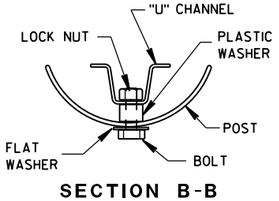
DETAIL B



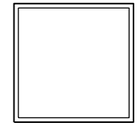
DETAIL C



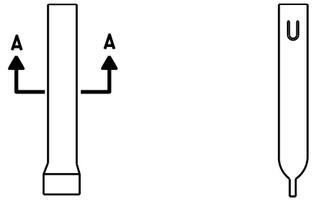
SECTION A-A



SECTION B-B

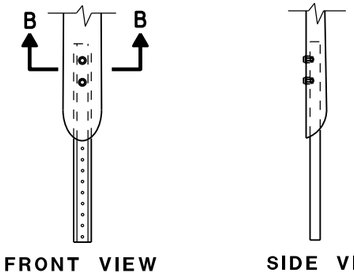


SECTION C-C



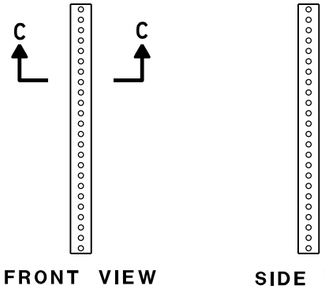
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
422
IGN
FHWA

6

S.D.D. 15 A 3-2b

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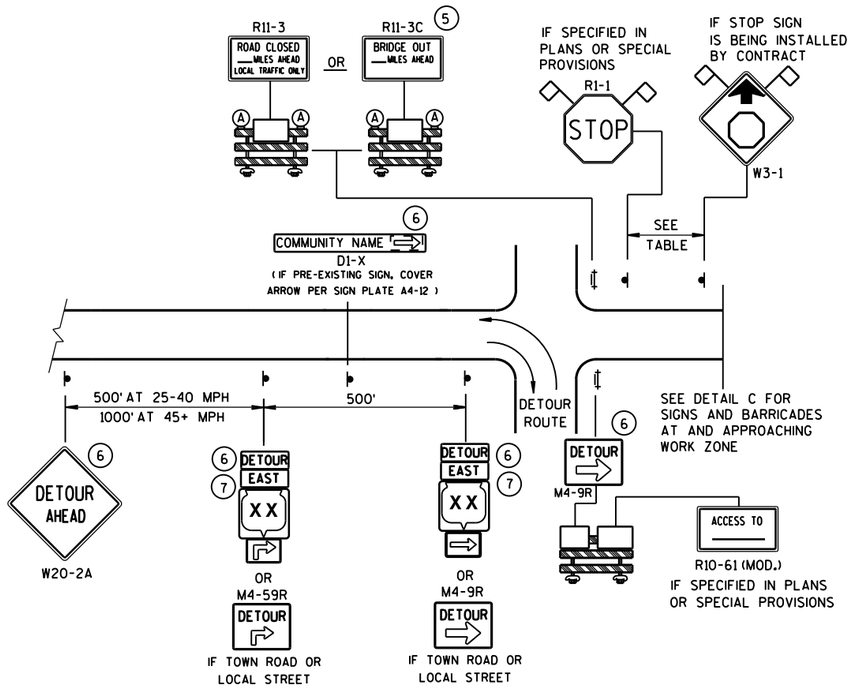
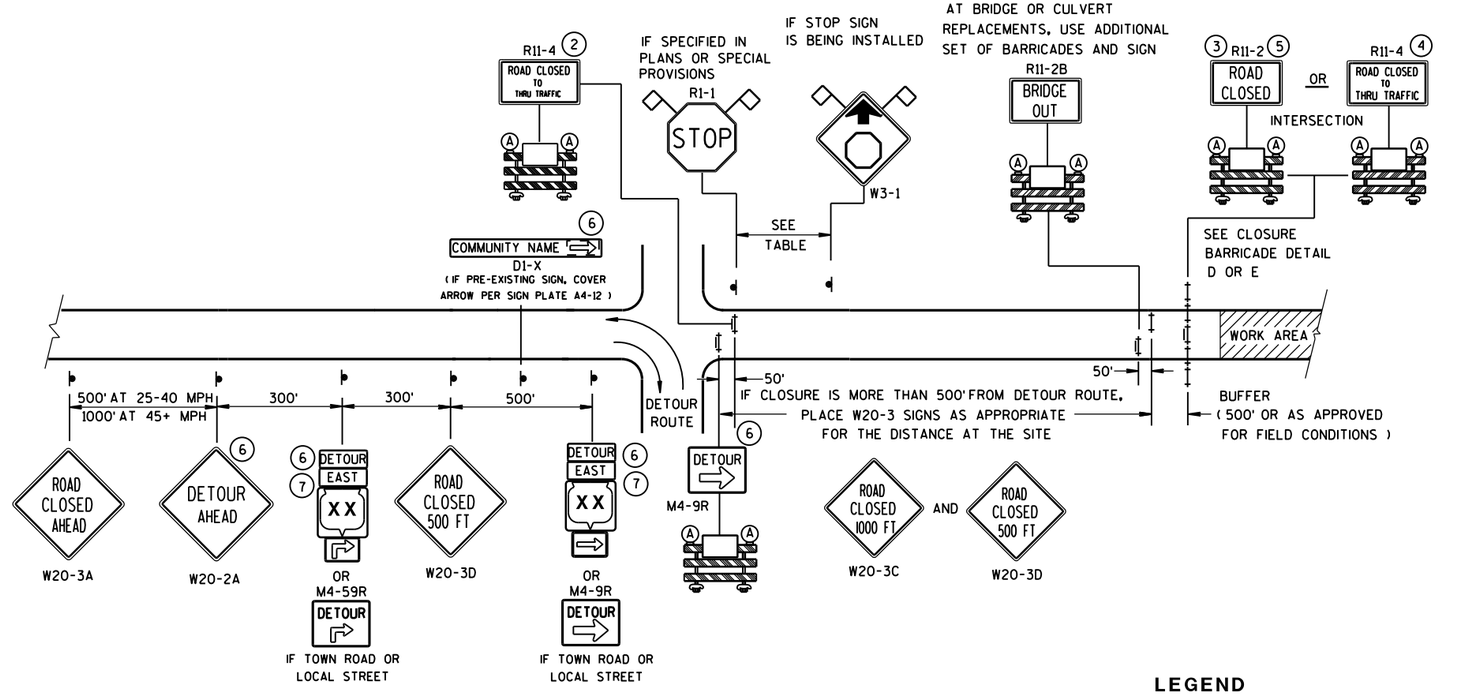
S.D.D. 15 A 3-2b



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

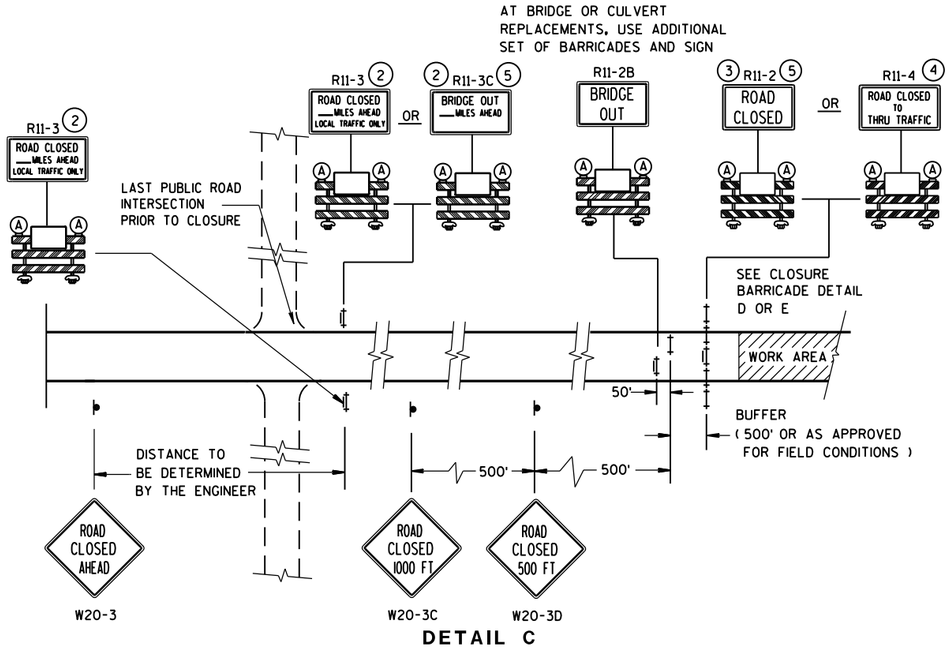
WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B

MAINLINE CLOSURE WITH POSTED DETOUR

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



DETAIL C

MAINLINE CLOSURE, NO POSTED DETOUR

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

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

LEGEND

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

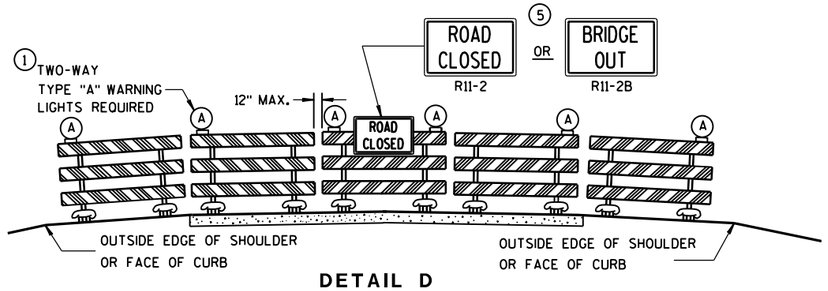
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6

S.D.D. 15 C 2-6a

6

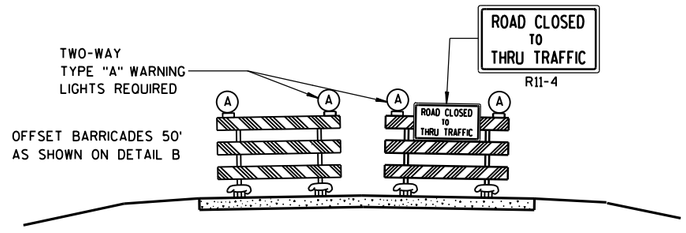
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

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

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI

424

FHWA — FIC

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S.D.D. 15 C 2-6b

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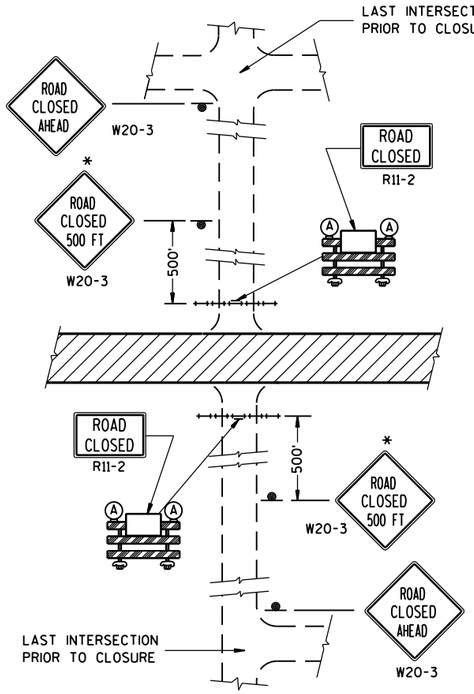
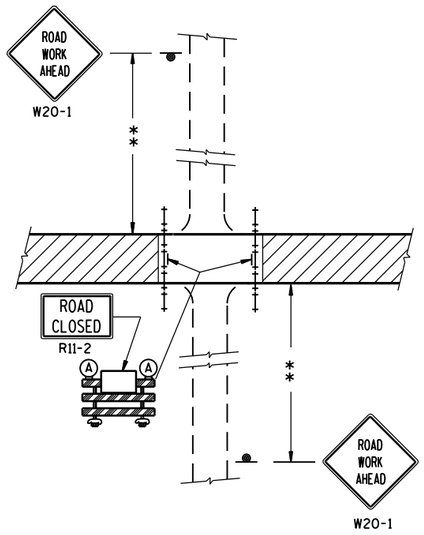
S.D.D. 15 C 2-6b



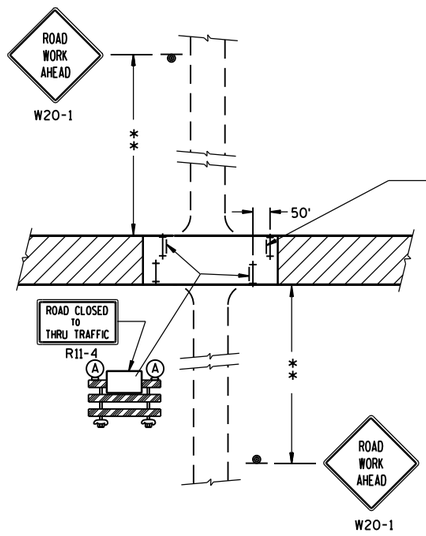
DETAIL 1

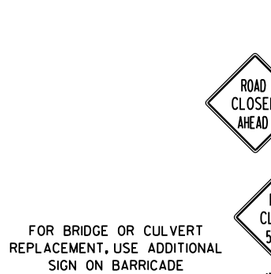
(NO ACCESS TO PROJECT)

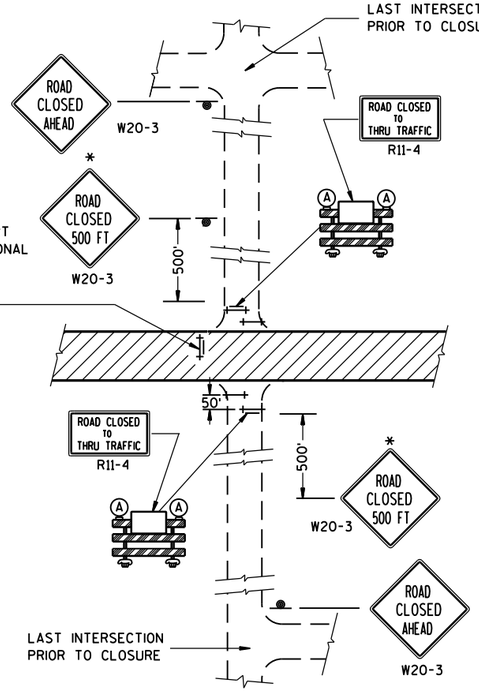


DETAIL 2

(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.

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

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

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

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

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

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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S.D.D. 15 C 3-2

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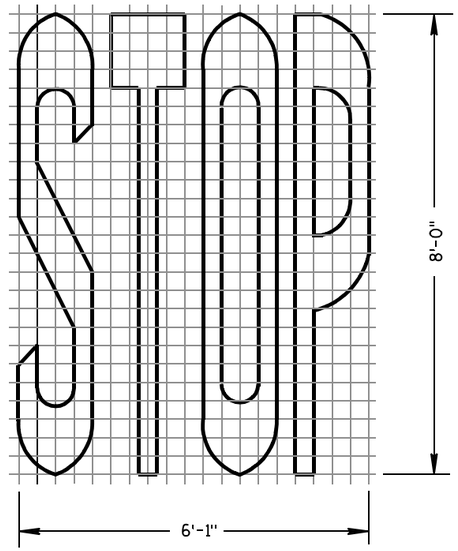
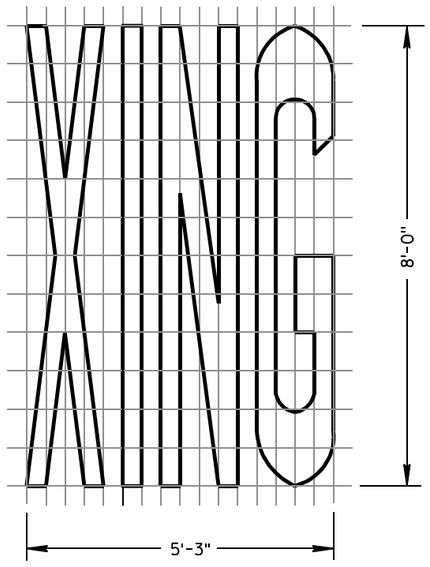
S.D.D. 15 C 3-2

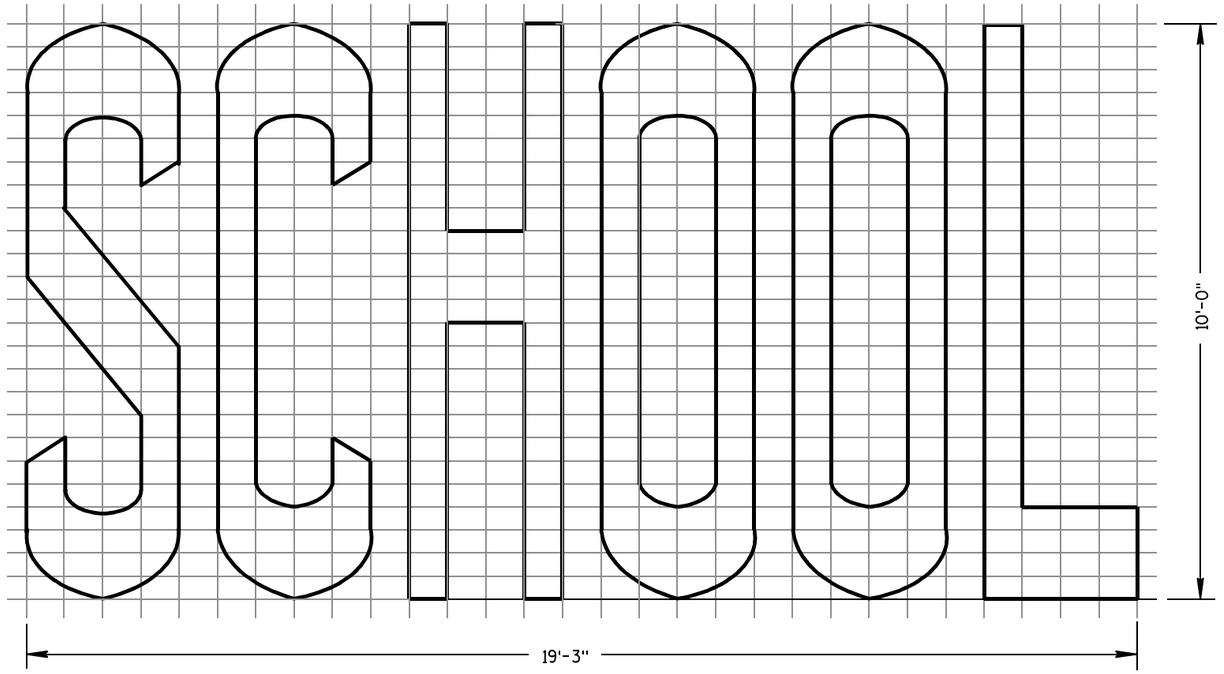
GENERAL NOTES

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

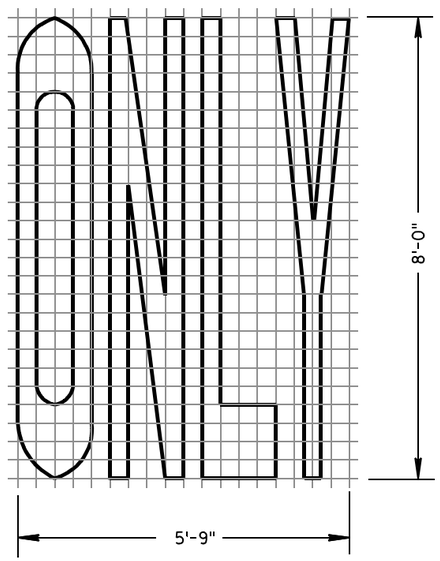
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES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

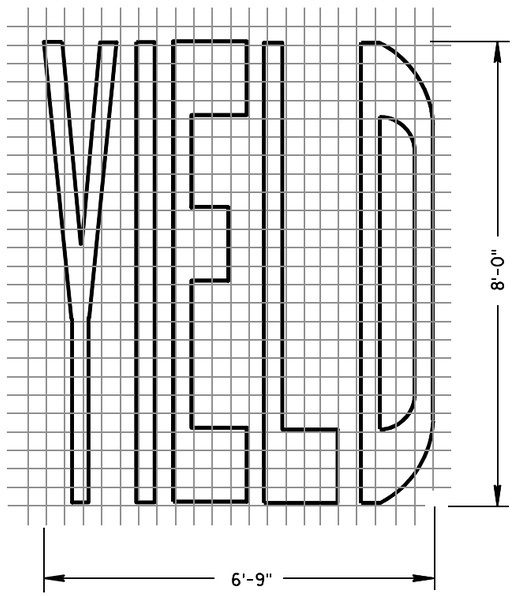


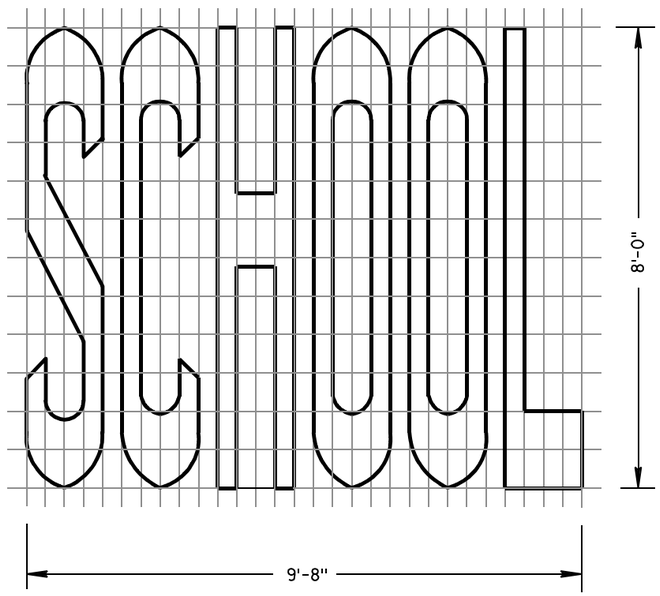




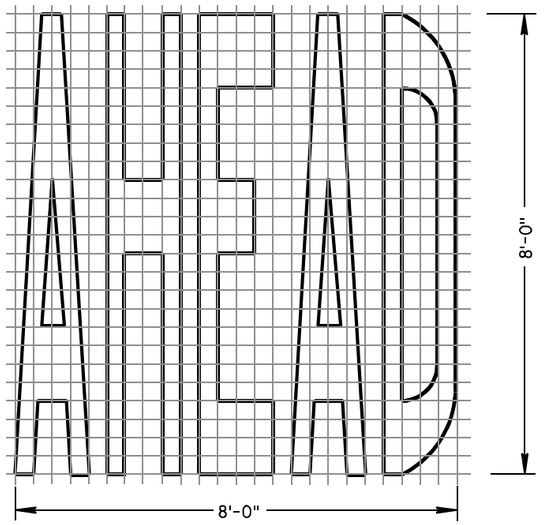
TWO-LANE







SINGLE-LANE



PAVEMENT MARKING WORDS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 7-1-11 DATE	/S/ Thomas N. Nottbohm STATE TRAFFIC ENGINEER
FHWA	

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

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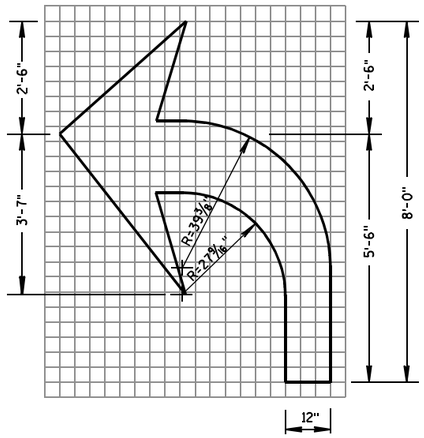
S.D.D. 15 C 7-12b

GENERAL NOTES

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

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



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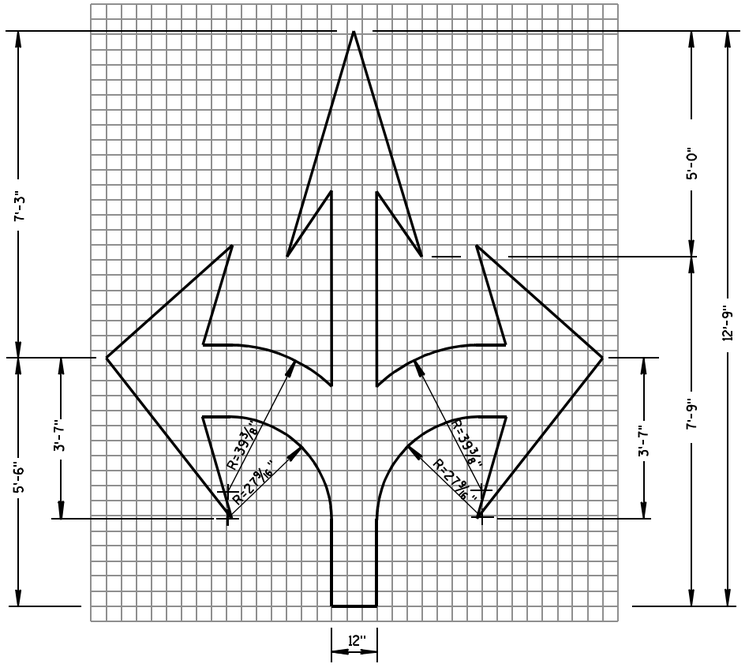

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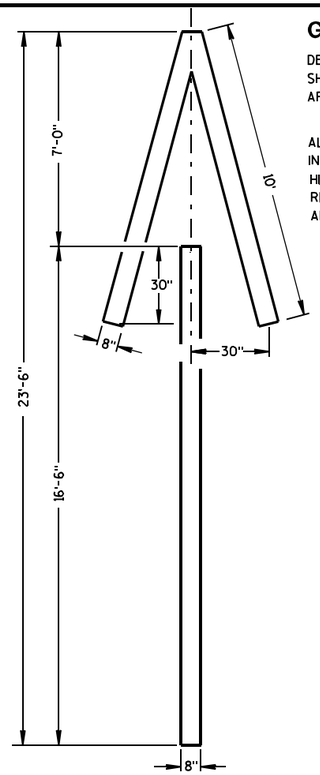

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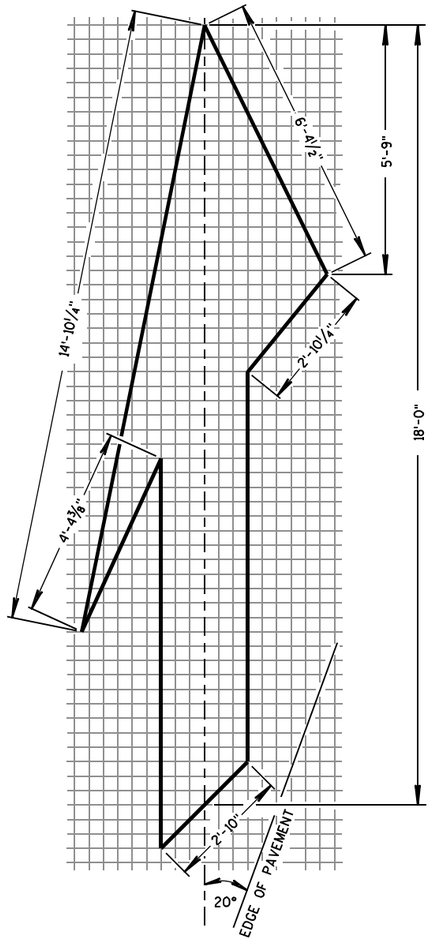
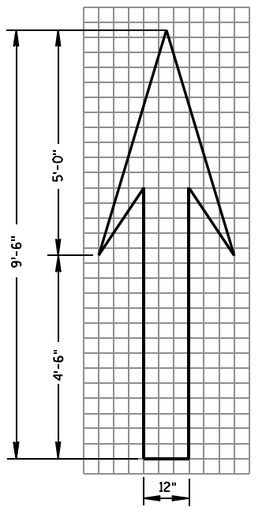
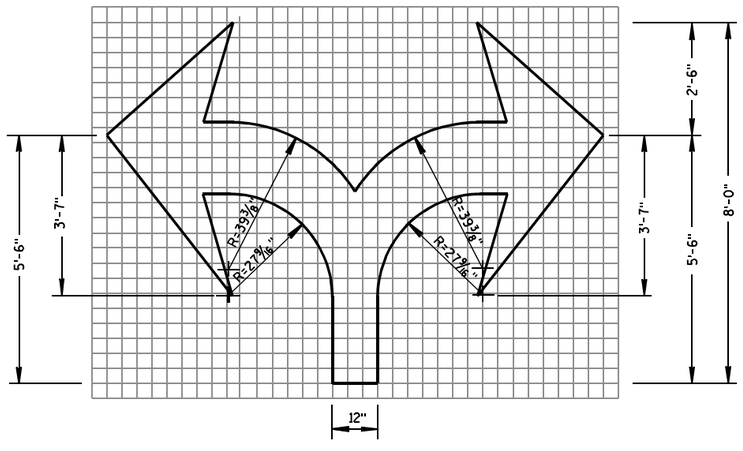


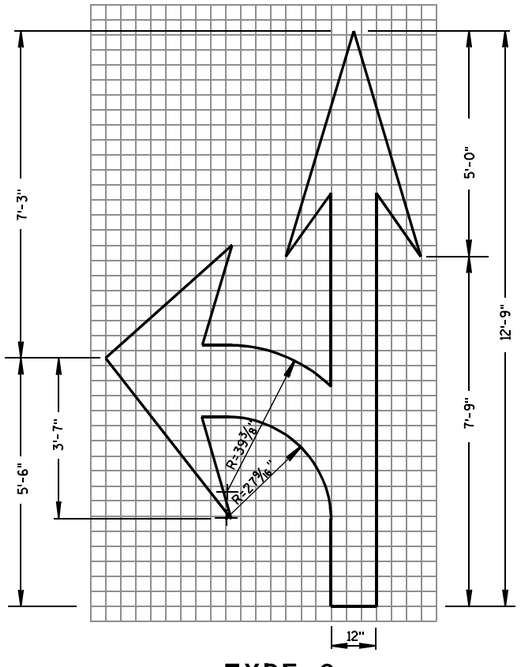
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

FHWA

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

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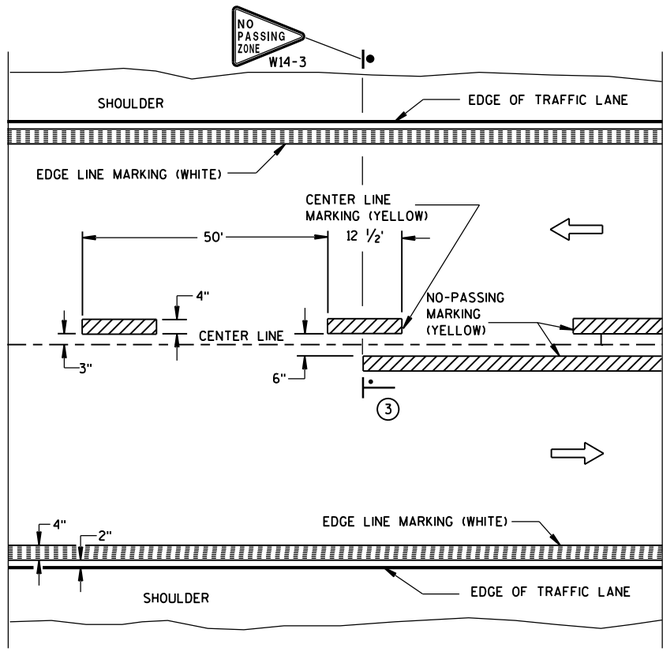
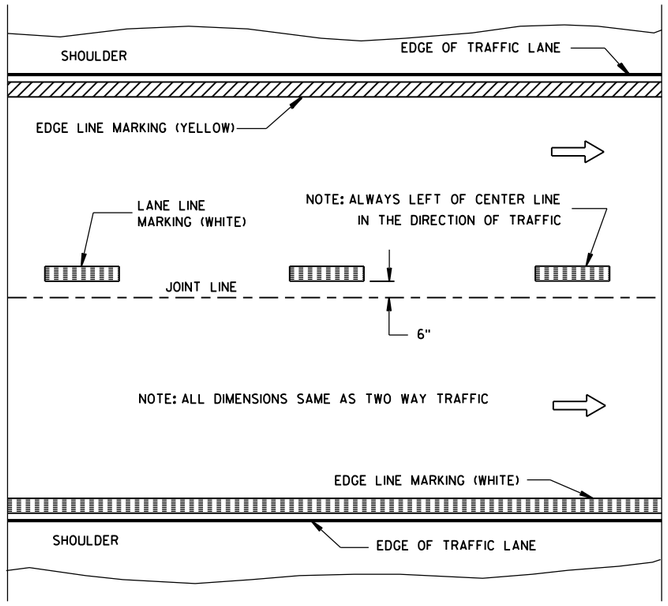
S.D.D. 15 C 7-12c

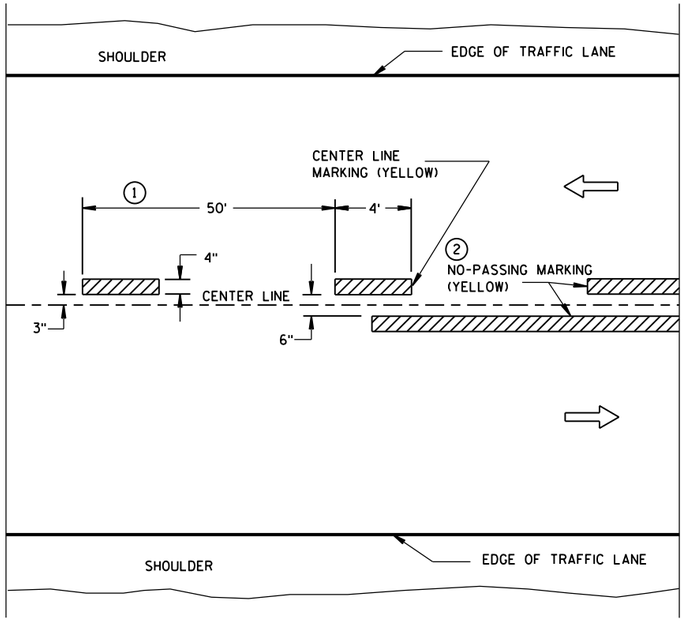


TWO WAY TRAFFIC

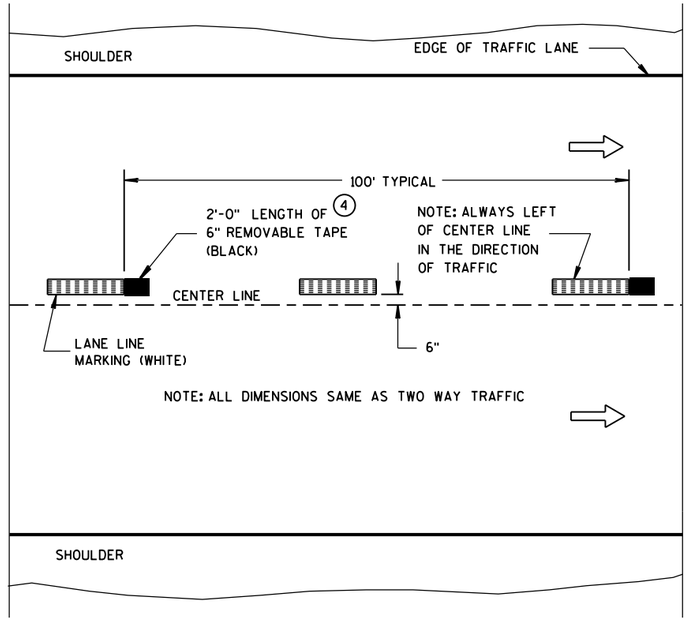


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

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

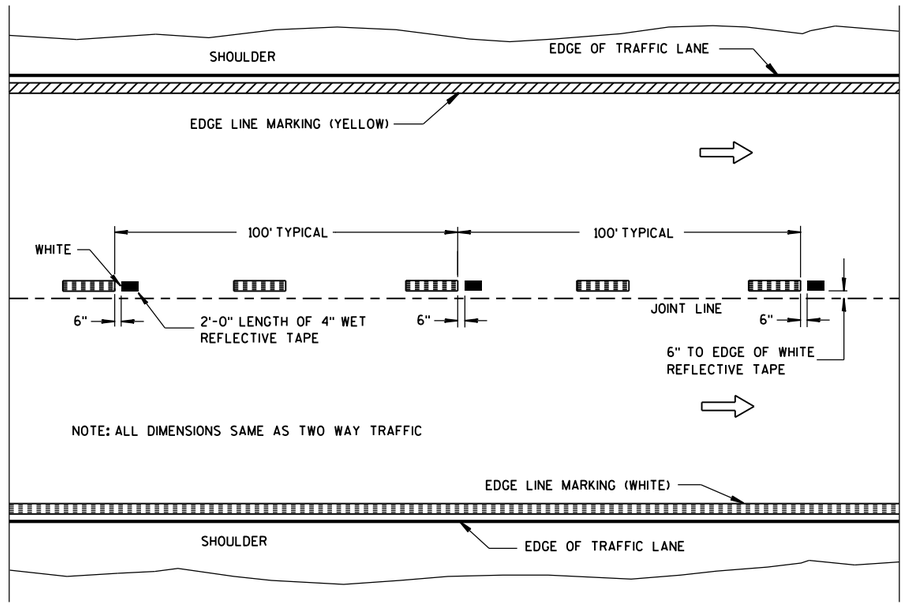
GENERAL NOTES

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

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

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



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

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-13-2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC E

FHWA

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

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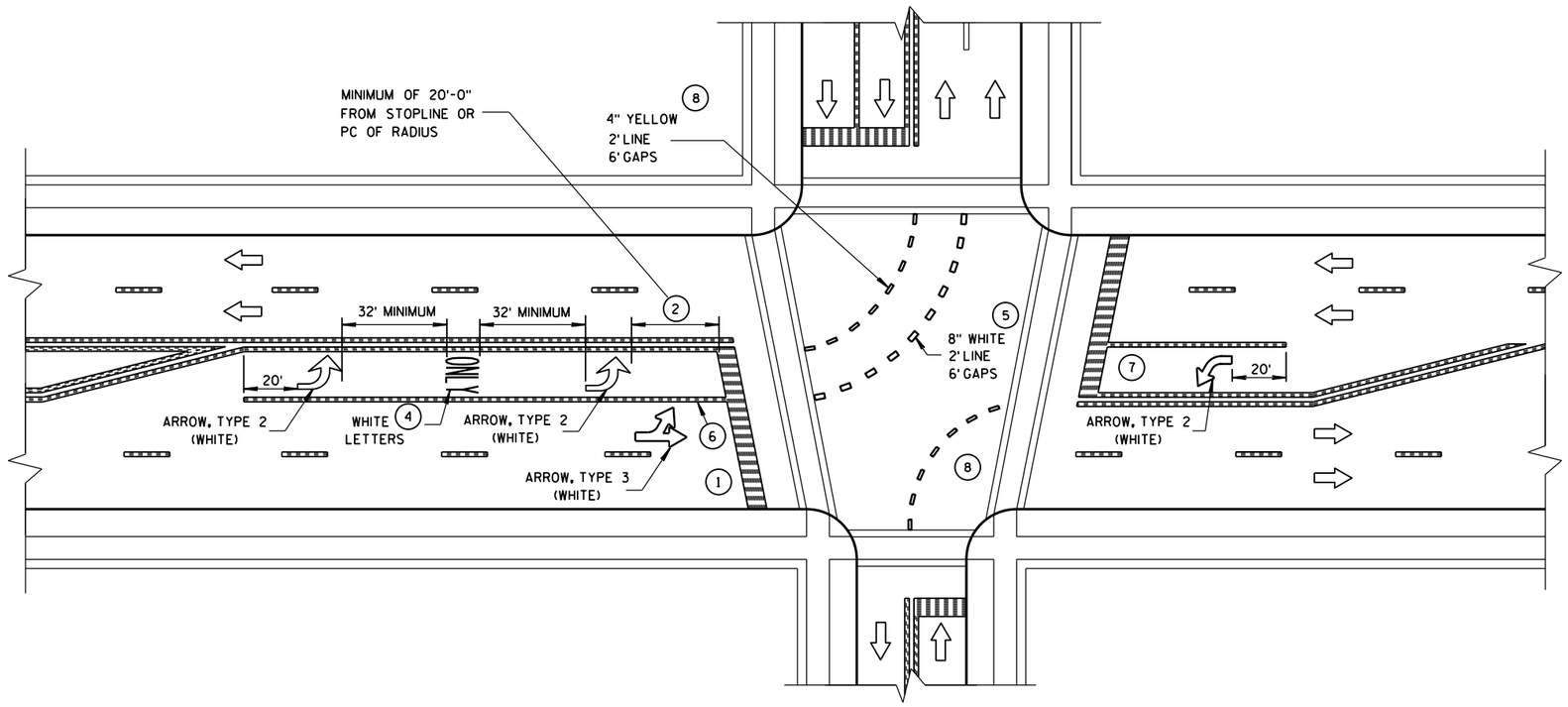
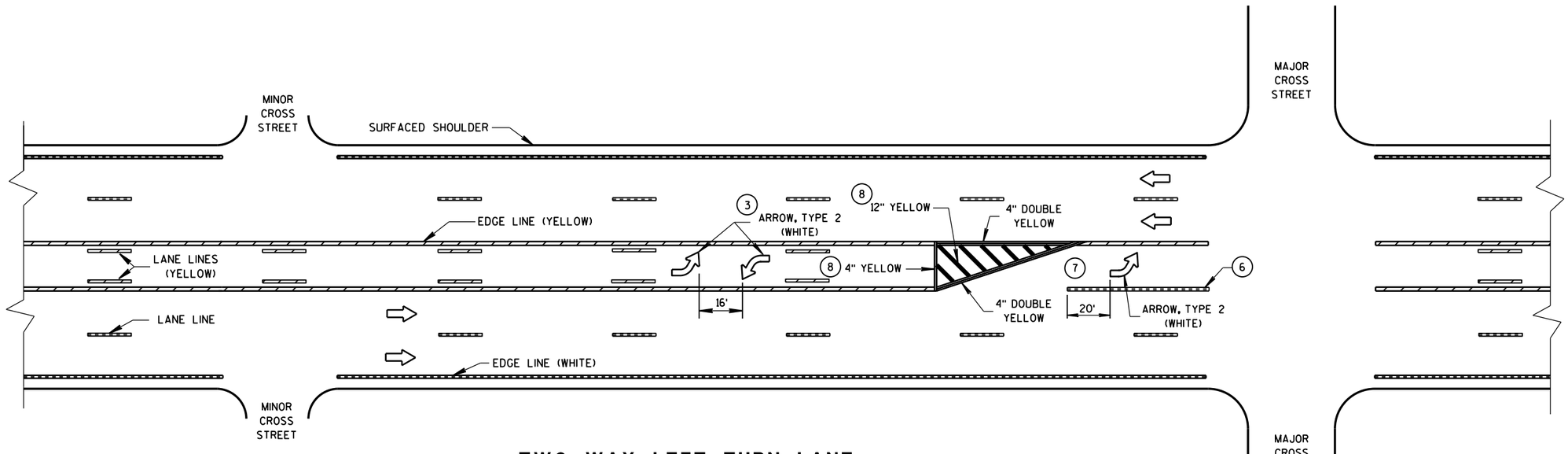
S.D.D. 15 C 8-16a



GENERAL NOTES

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

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

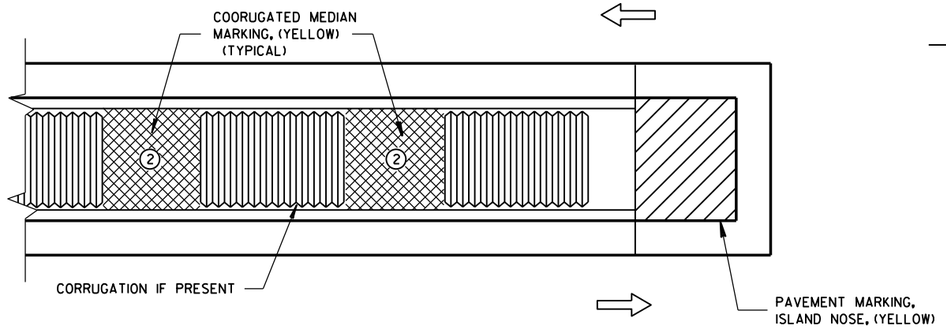
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

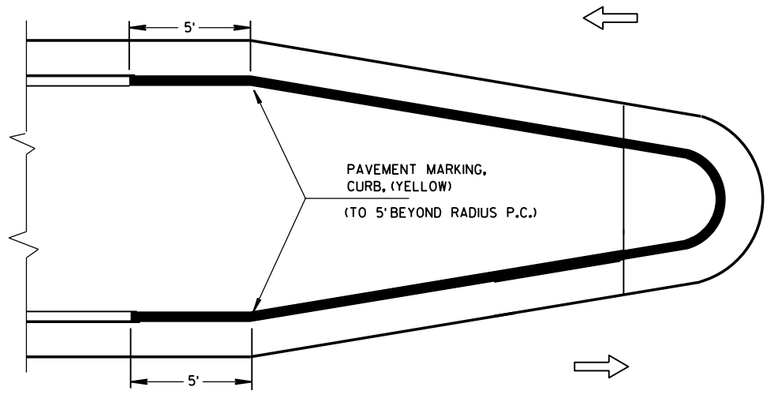
S.D.D. 15 C 8-16e

6

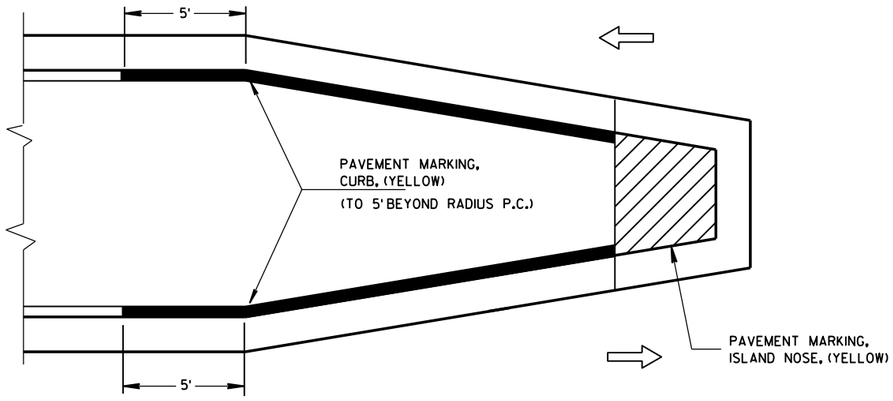
S.D.D. 15 C 8-16e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

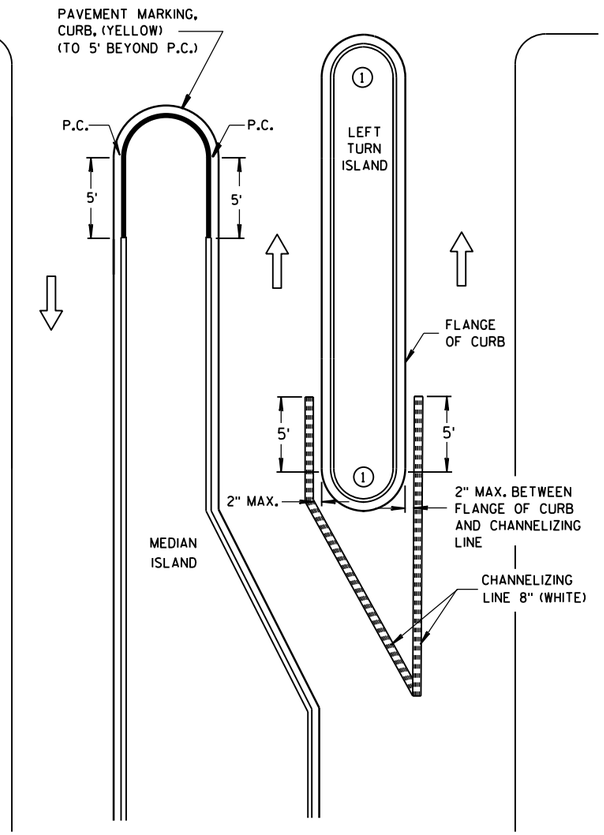


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

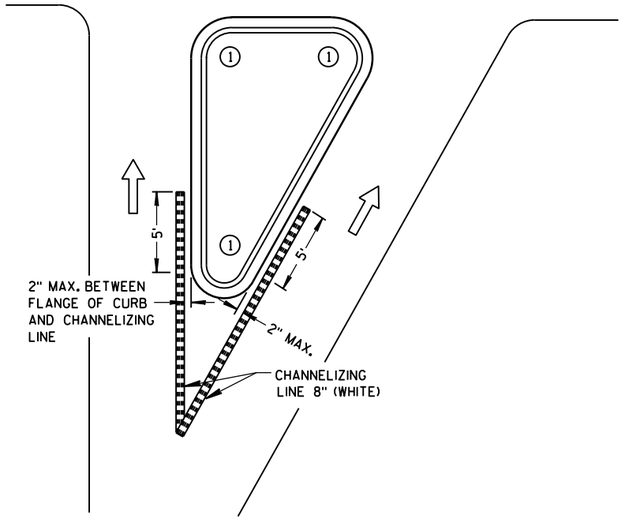


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

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

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



RIGHT TURN ISLAND

LEGEND

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

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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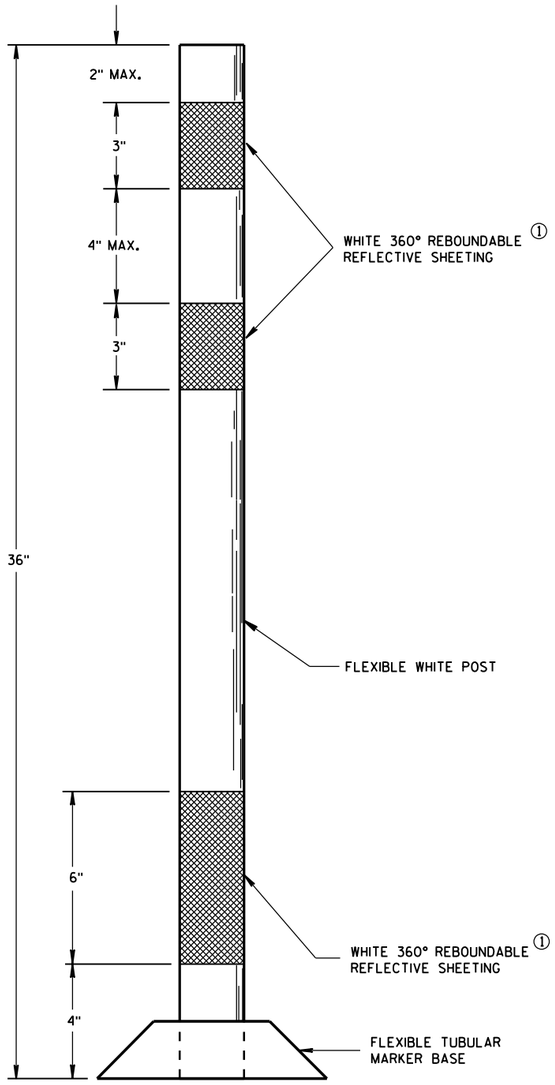
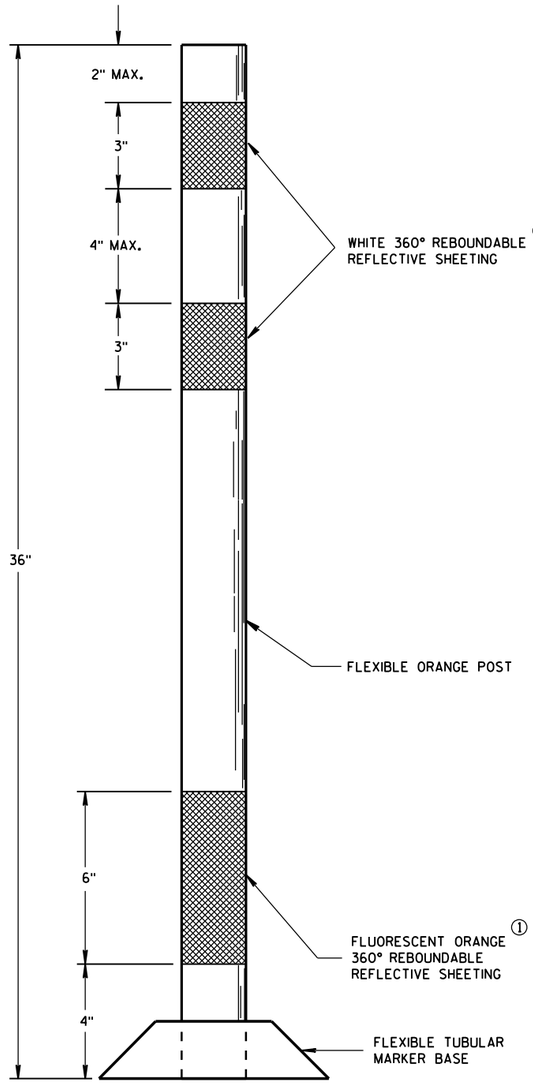
S.D.D. 15 C 8-16f



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 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.

① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

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S.D.D. 15 C 11-6

S.D.D. 15 C 11-6

FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10-16-2015
DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZON
SAFETY ENGINE

FHWA

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

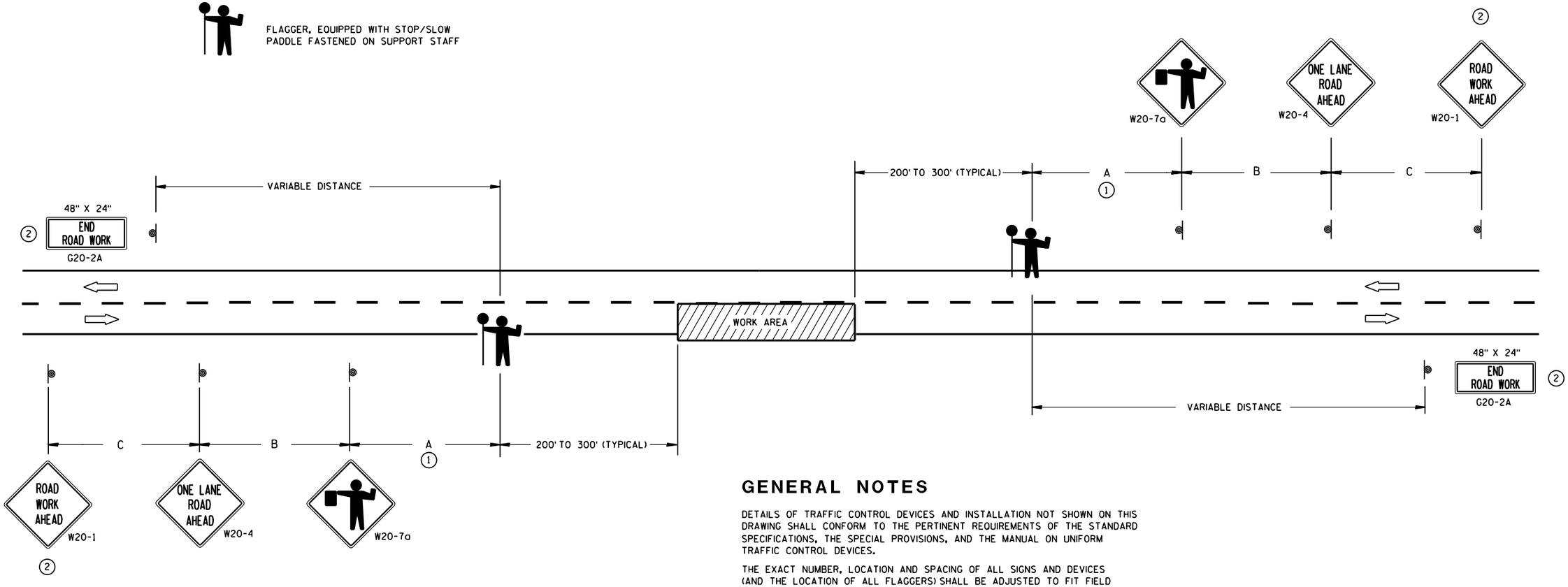
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

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

W3-4

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



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

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

GENERAL NOTES

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

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

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

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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S.D.D. 15 C 12-4

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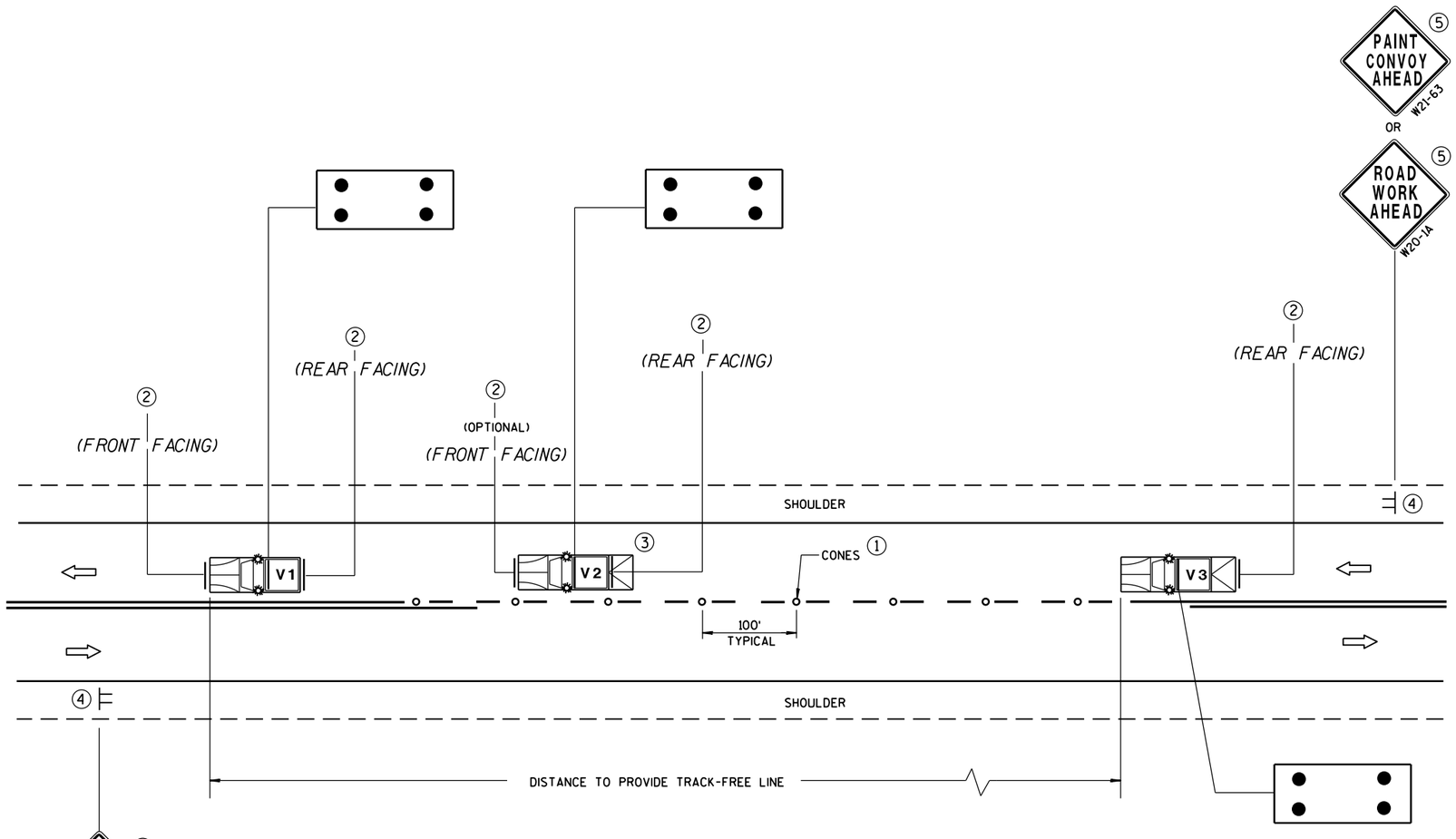
S.D.D. 15 C 12-4



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

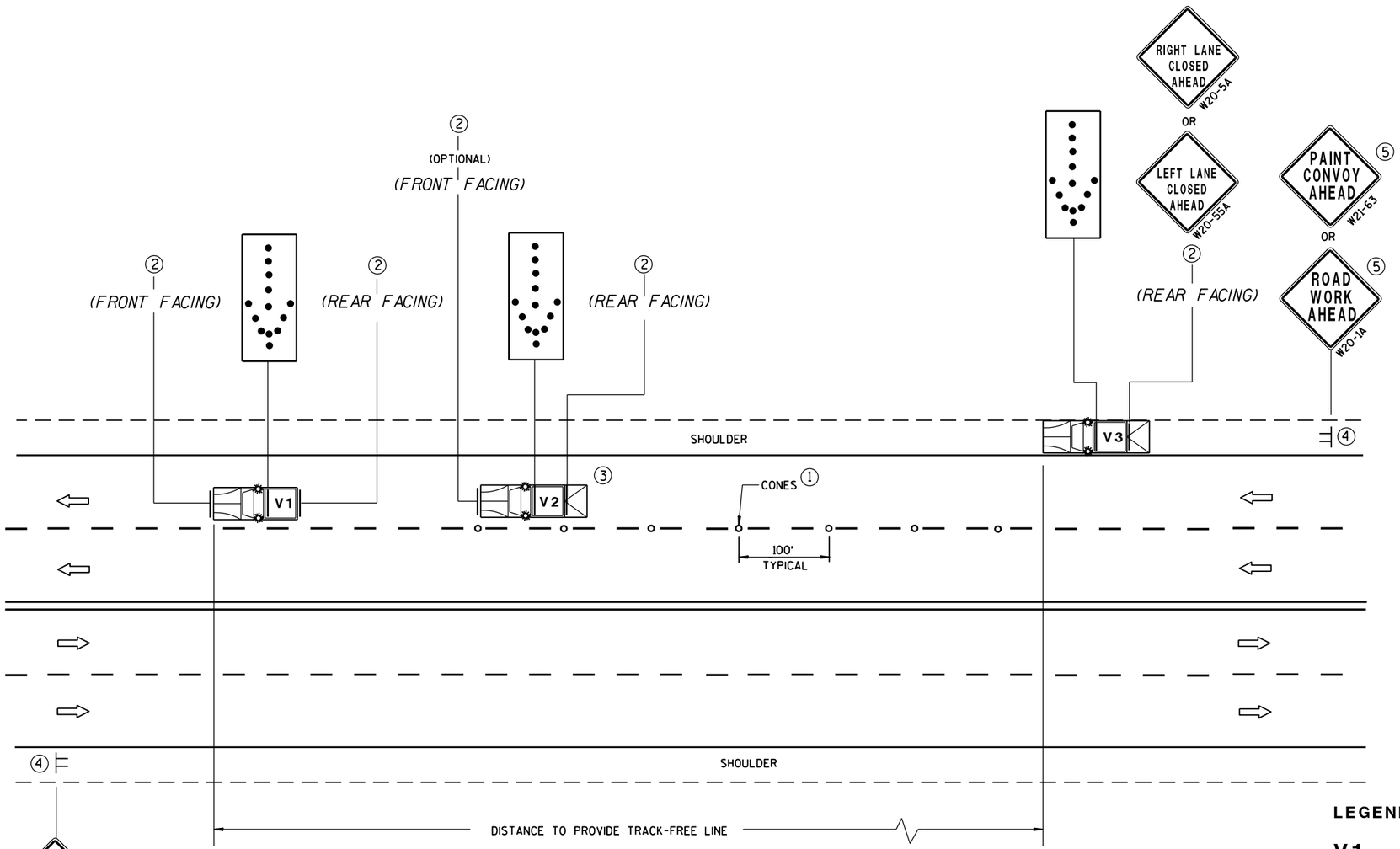
(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

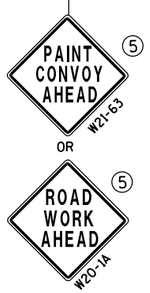
(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

- **V1** LEAD VEHICLE
- **V2** SHADOW VEHICLE
- **V3** TRAIL VEHICLE WITH TMA
- **TMA** TRUCK-MOUNTED ATTENUATOR
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- CONES
- FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
DATE	/S/ Peter Amakobe Atepe
FHWA	STATEWIDE WORK ZOI SAFETY ENGIN 433 C





MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE UNDIVIDED 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.

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.

LEGEND

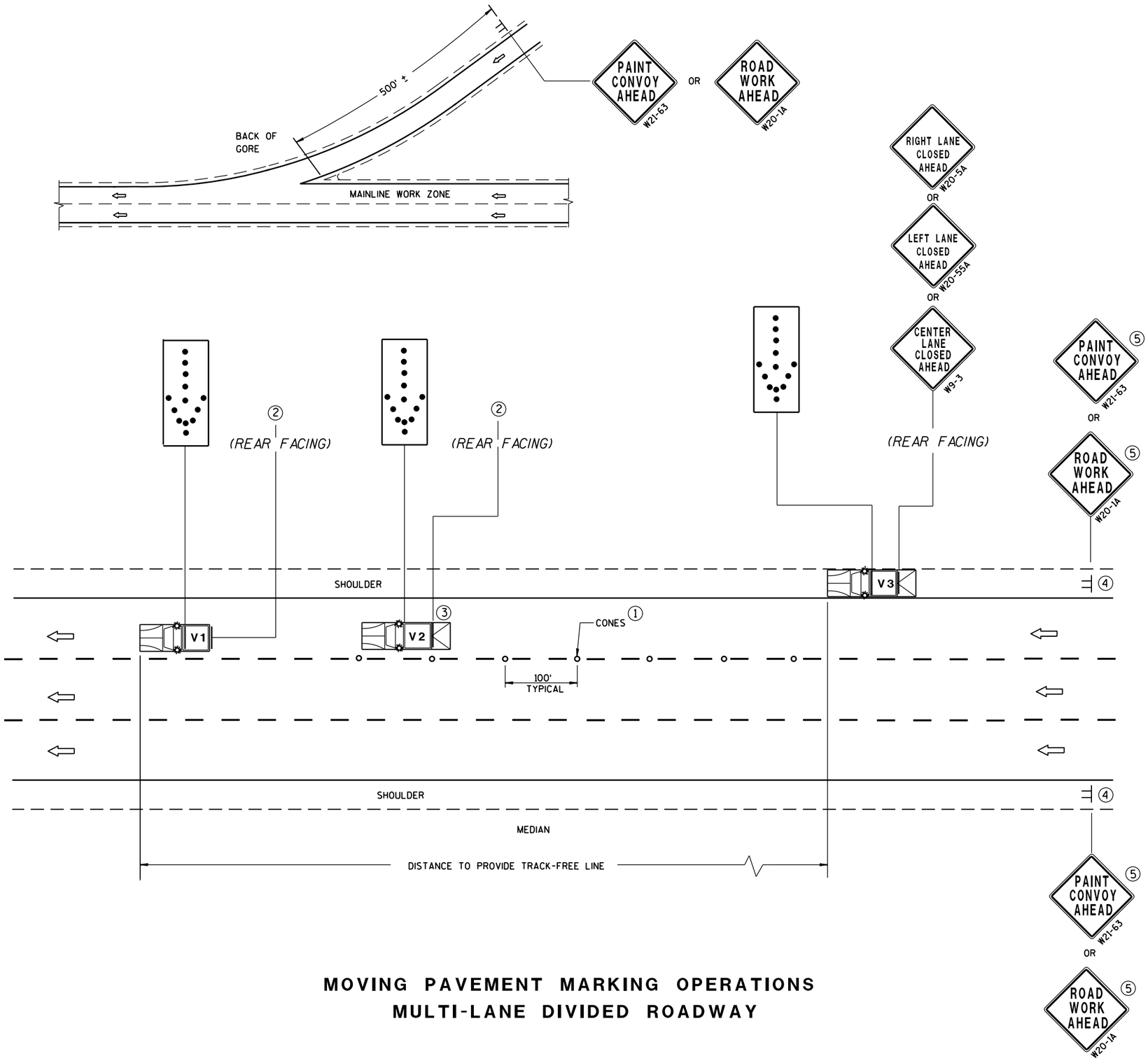
V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (MERGE)

MOVING PAVEMENT MARKING OPERATION
MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZON SAFETY ENGINE
FHWA

6 S.D.D. 15 C 19-3b



MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE DIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR EDGELINE OR LANELINE MARKING FOR MULTILANE DIVIDED ROADWAYS.

① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.

④ SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.

⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (MERGE)

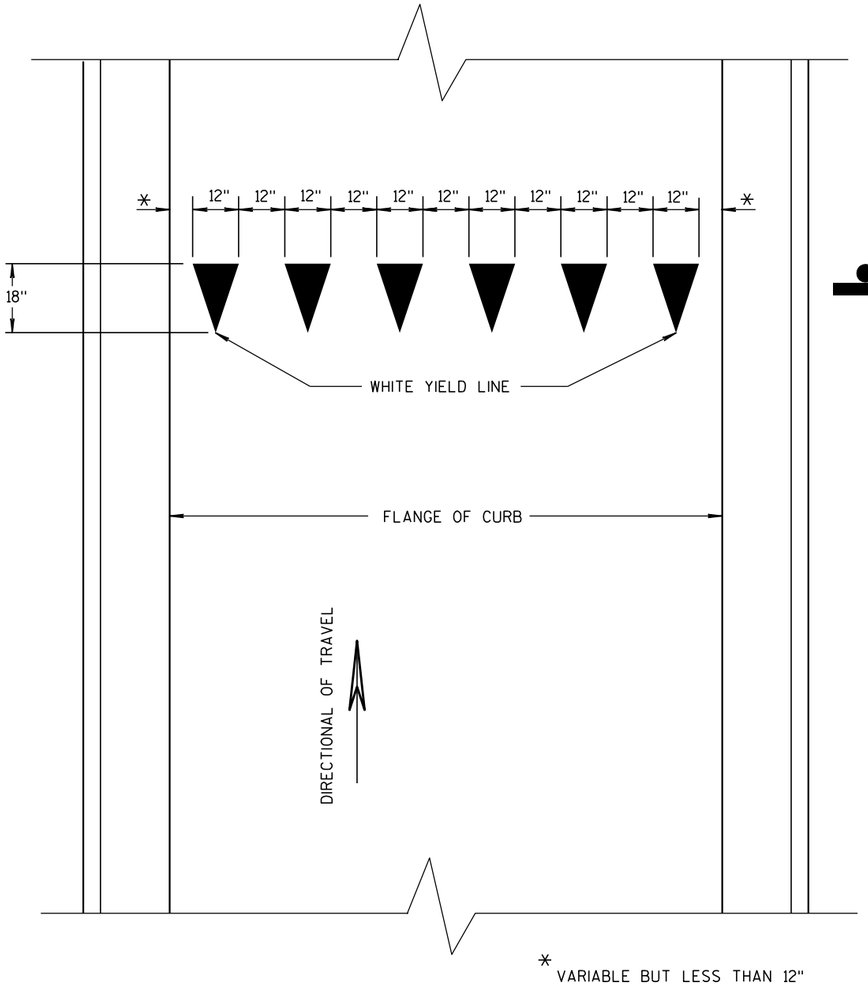
MOVING PAVEMENT MARKING OPERATION
MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

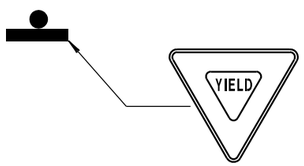
APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZON SAFETY ENGINI
FHWA

6 S.D.D. 15 C 19-3c

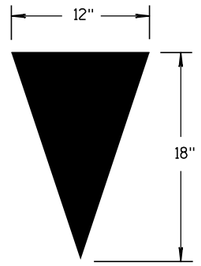
6 S.D.D. 15 C 19-3c



YIELD LINE



R1-2
36" X 31"



YIELD TRIANGLE

YIELD MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

1/28/05 — DATE

/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 C 20-1

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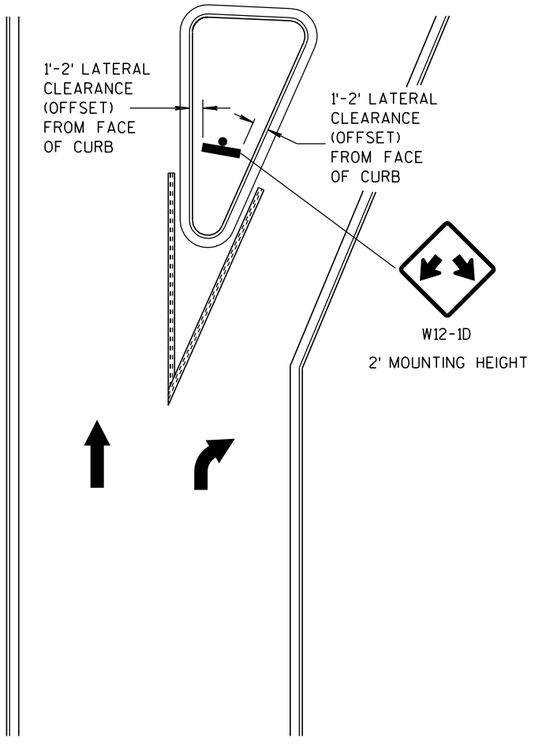
S.D.D. 15 C 20-1

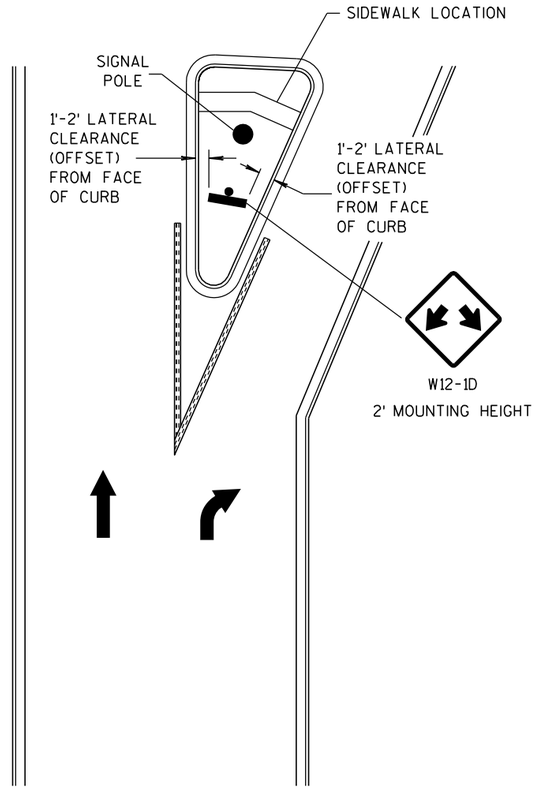
GENERAL NOTE

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

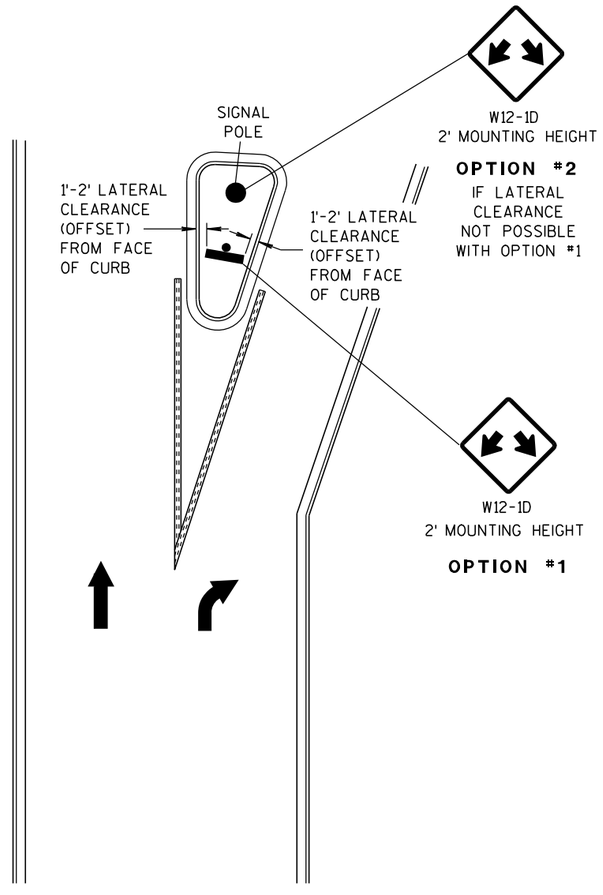
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.



LARGE RIGHT TURN ISLAND



LARGE RIGHT TURN ISLAND
WITH SIGNAL POLE



SMALL RIGHT TURN ISLAND

DOUBLE ARROW WARNING SIGN PLACEMENT

DOUBLE ARROW WARNING SIGN PLACEMENT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
10-22-08 DATE	/S/ Thomas N. Nothem STATE TRAFFIC ENGINEER 437 IGN
FHWA	

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S.D.D. 15 C 27-1

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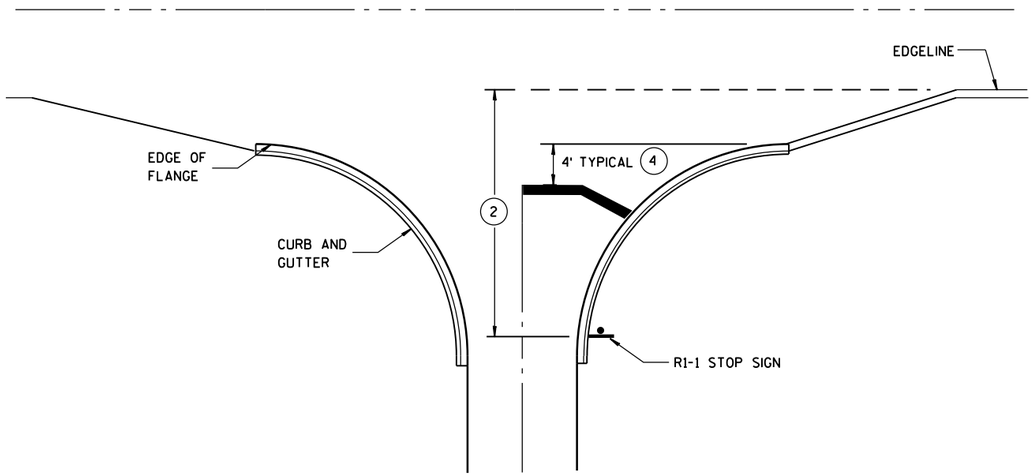
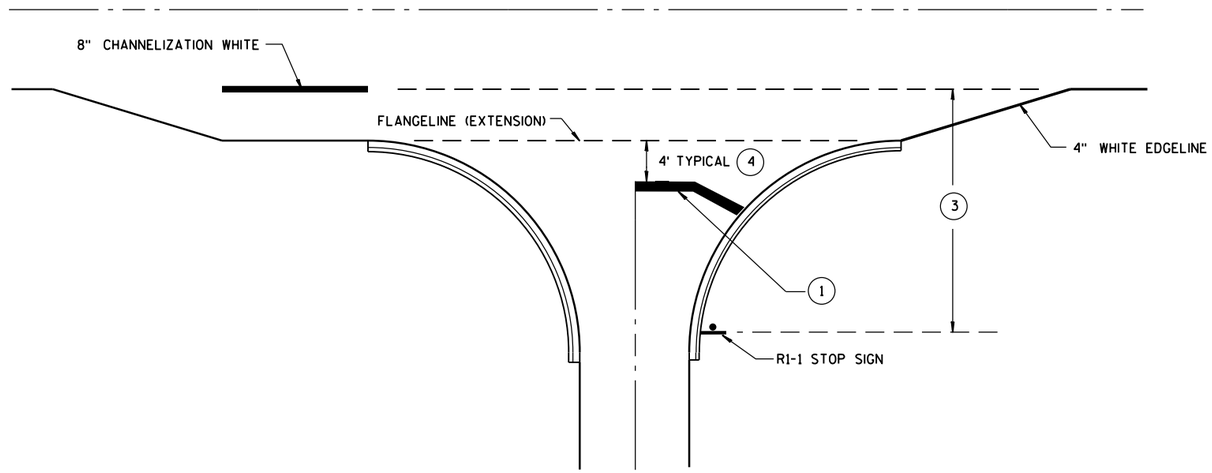
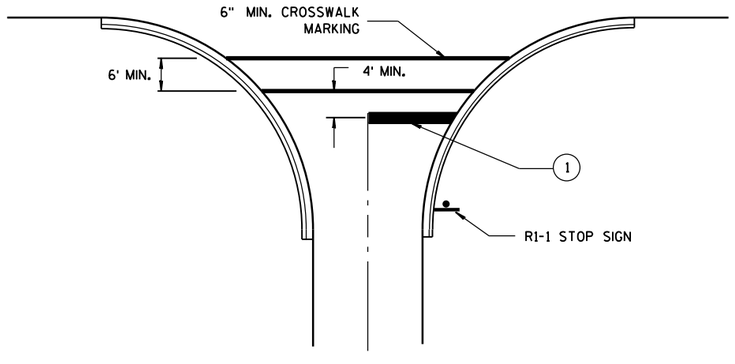
S.D.D. 15 C 27-1



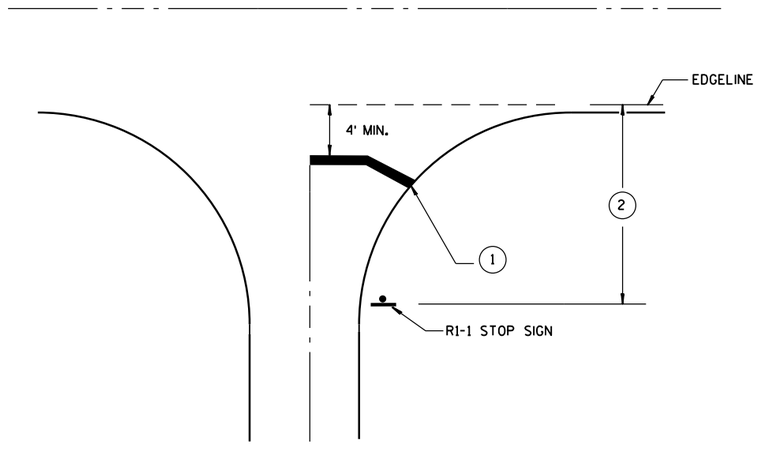
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/30/2013 DATE
/S/ Travis Feltes
STATE TRAFFIC E
FHWA

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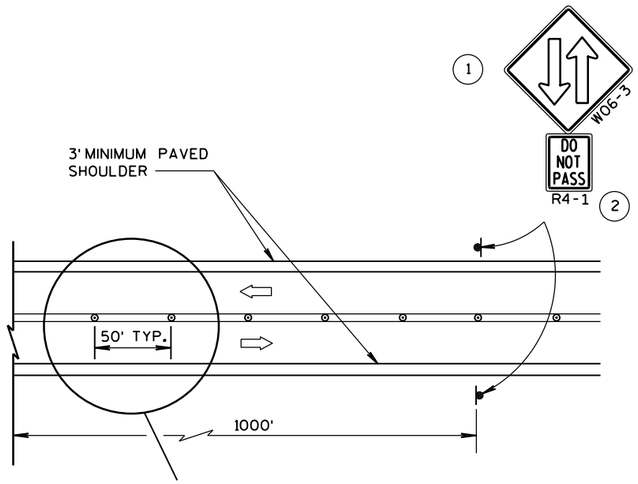
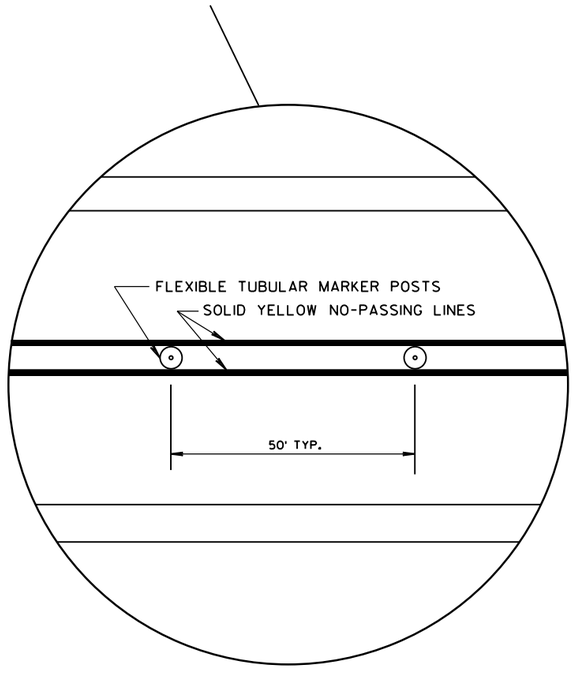
S.D.D. 15 C 33-1



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

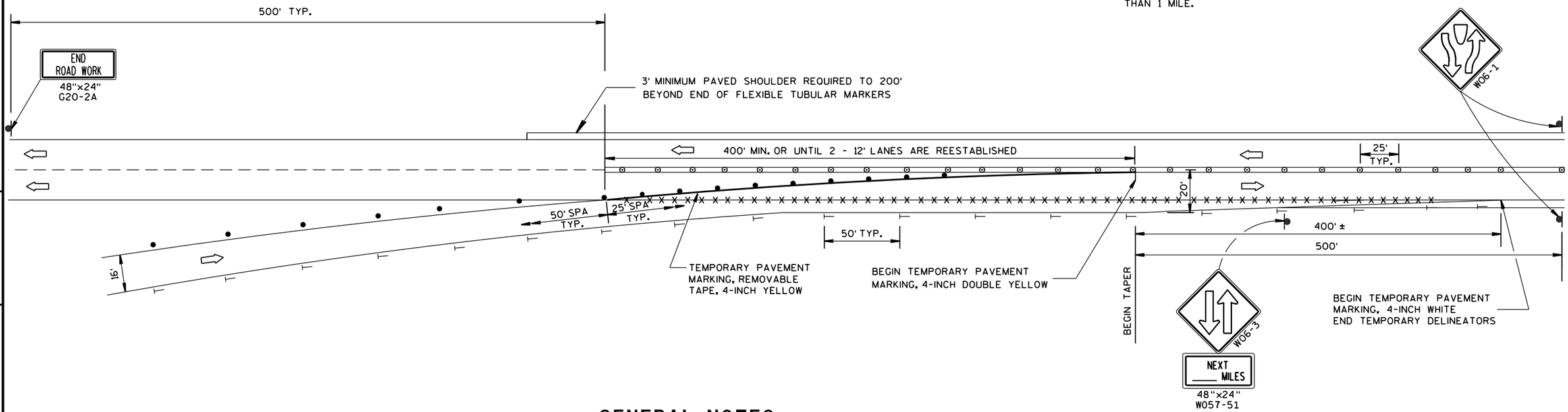
APPROVED
8/2013 DATE
/S/ Travis Feltes STATE TRAFFIC ENGINEER
SIGN
FHWA

6

S.D.D. 15 D 6-3

LEGEND

- SIGN ON PERMANEMT SUPPORT
- TRAFFIC CONTROL DRUM
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST W/SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING
- REMOVE PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC



24"x30"
R4-1

REPEAT EVERY 1/4 MILE IF PROJECT IS LONGER THAN 1 MILE.

GENERAL NOTES

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH 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.

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE SHALL BE USED WHEN CROSSING PERMANENT ROADWAY SURFACES THAT WILL REMAIN AFTER USE OF CROSSOVER.

TRAFFIC CONTROL, SINGLE LANE CROSSOVER EXIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

DESIGN

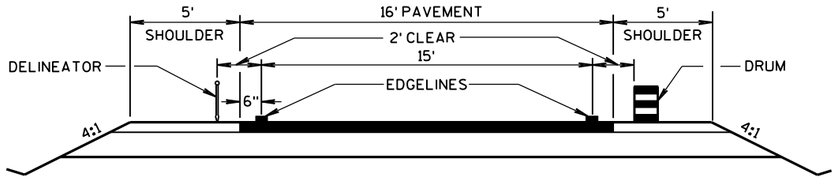
FHWA

6

S.D.D. 15 D 9-3

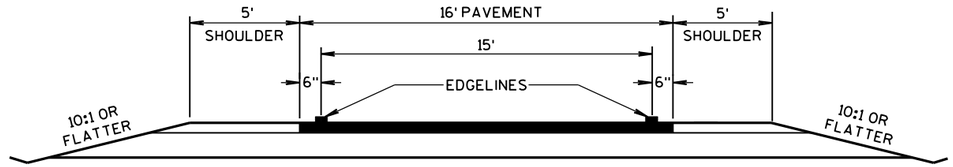
6

S.D.D. 15 D 9-3



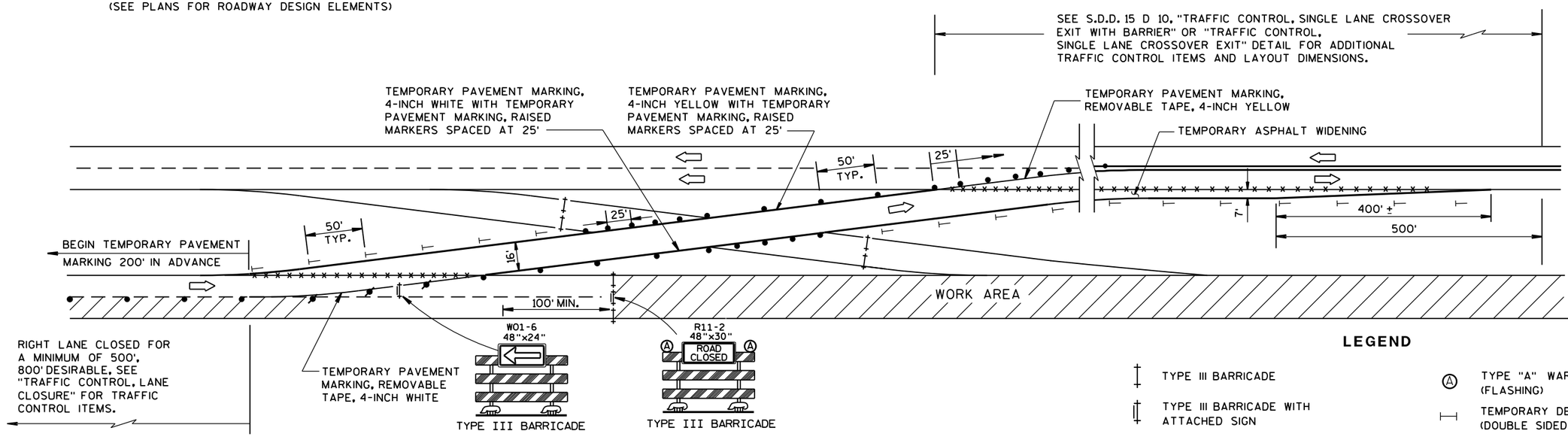
TYPICAL TEMPORARY CROSSOVER ROADWAY DIMENSIONS

(SEE PLANS FOR ROADWAY DESIGN ELEMENTS)



TYPICAL CROSSOVER TO REMAIN IN PLACE ROADWAY DIMENSIONS

(SEE PLANS FOR ROADWAY DESIGN ELEMENTS)



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- TEMPORARY DELINEATOR (STEEL POST W/SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING
- TYPE "A" WARNING LIGHT (FLASHING)
- TEMPORARY DELINEATOR (DOUBLE SIDED)
- REMOVING PAVEMENT MARKINGS
- DELINEATOR FLEXIBLE/ TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

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

THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE SHALL BE USED WHEN CROSSING PERMANENT ROADWAY SURFACES THAT WILL REMAIN AFTER USE OF CROSSOVER AND TEMPORARY PAVEMENT MARKING WHERE USED.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

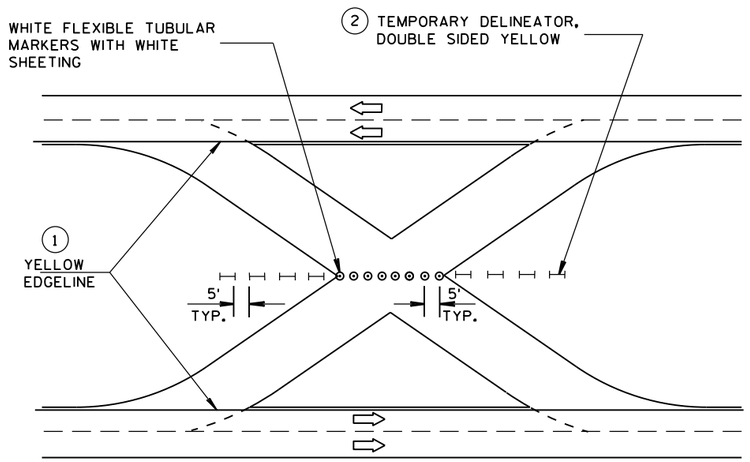
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH 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.

REVERSE DEVICES WHEN OTHER LEG OF CROSSOVER IS IN USE.

(1) FOR PERMANENT CROSSOVER, PAVEMENT MARKING SHOULD CONFORM TO SECTION 646 OF THE STANDARD SPECIFICATIONS.

(2) FOR PERMANENT CROSSOVER, INSTALL PERMANENT DELINEATORS ACCORDING TO SECTION 633 OF THE STANDARD SPECIFICATIONS.



TRAFFIC CONTROL FOR CROSSOVER THAT IS NOT IN USE

TRAFFIC CONTROL, SINGLE LANE CROSSOVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-16-2015 DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZON SAFETY ENGIN IC
FHWA

6

S.D.D. 15 D 11-6

6

S.D.D. 15 D 11-6

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMENENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

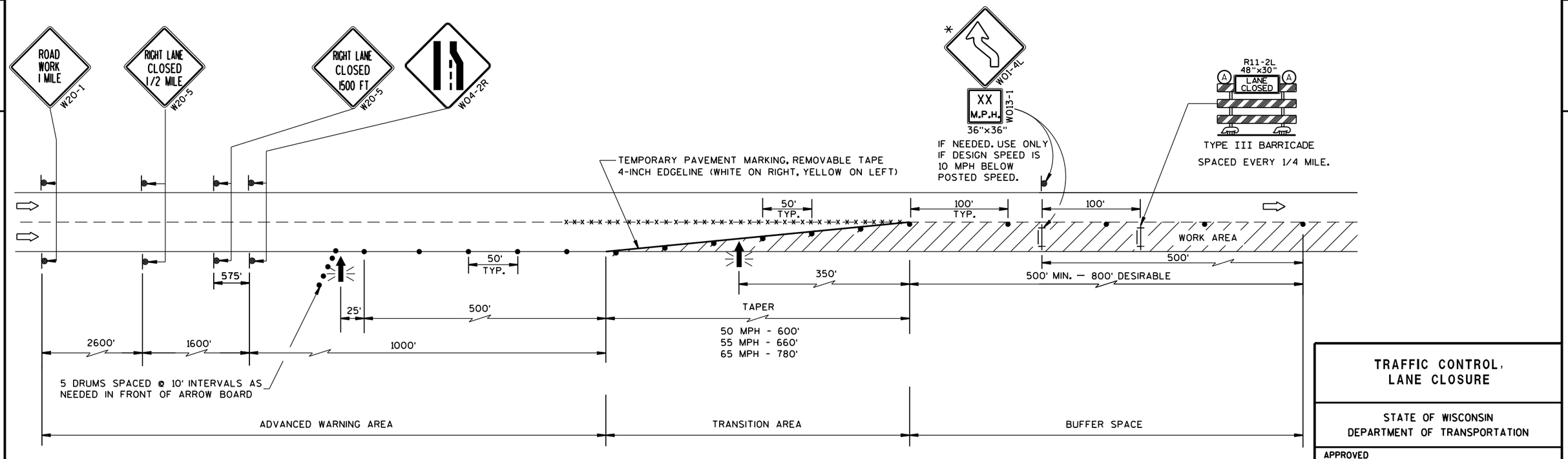
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL, LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 D 12-5a

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMENENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

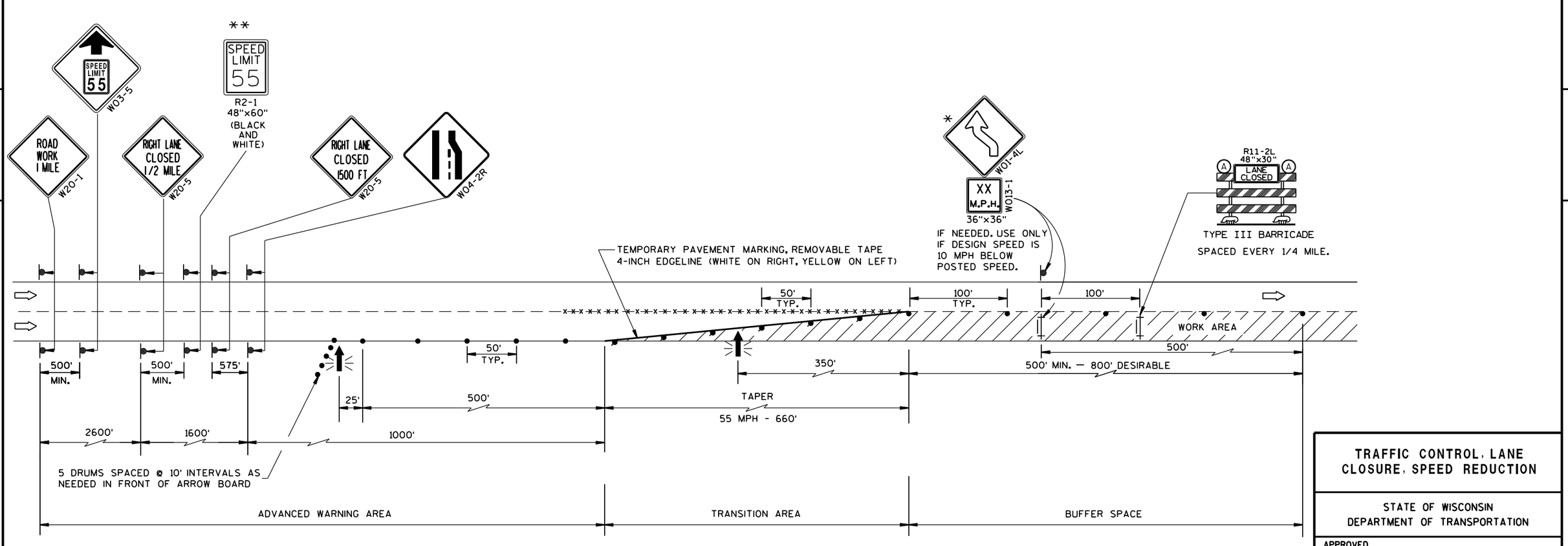
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.

** A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. THERE SHOULD BE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 2 OR 3 MILES. INCLUDE A 65 MPH RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIREABLE) BEYOND THE "END OF ROADWORK" SIGN.



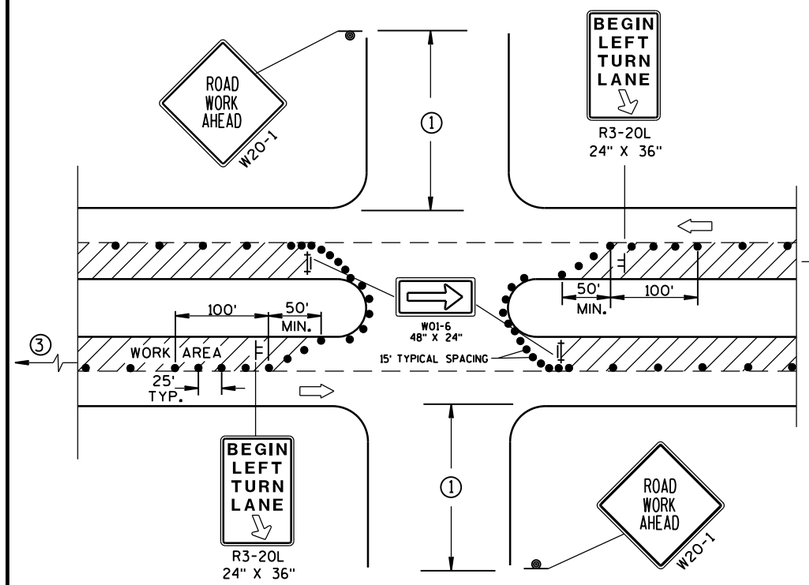
TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

S.D.D. 15 D 12-5b

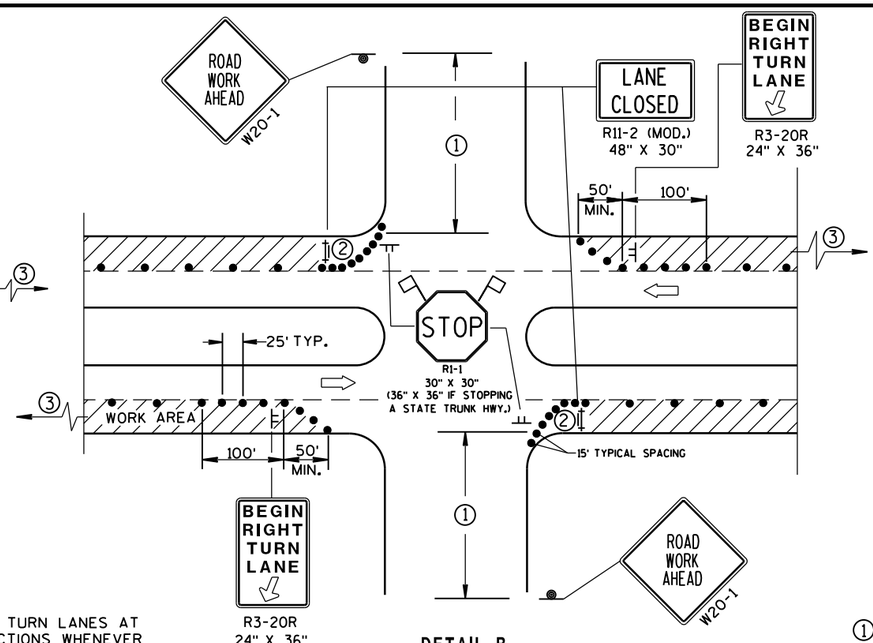
S.D.D. 15 D 12-5b



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.

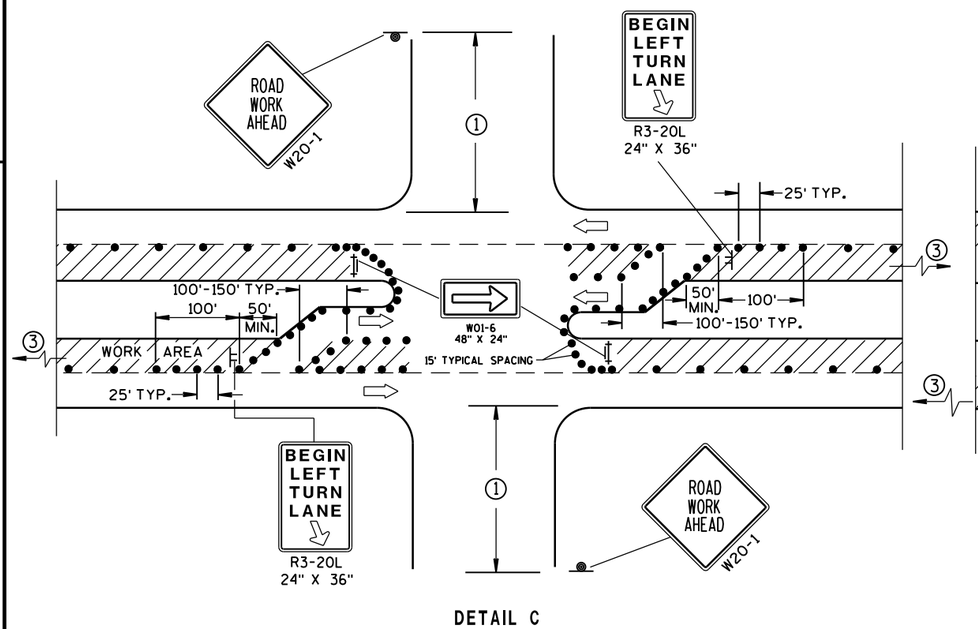
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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.

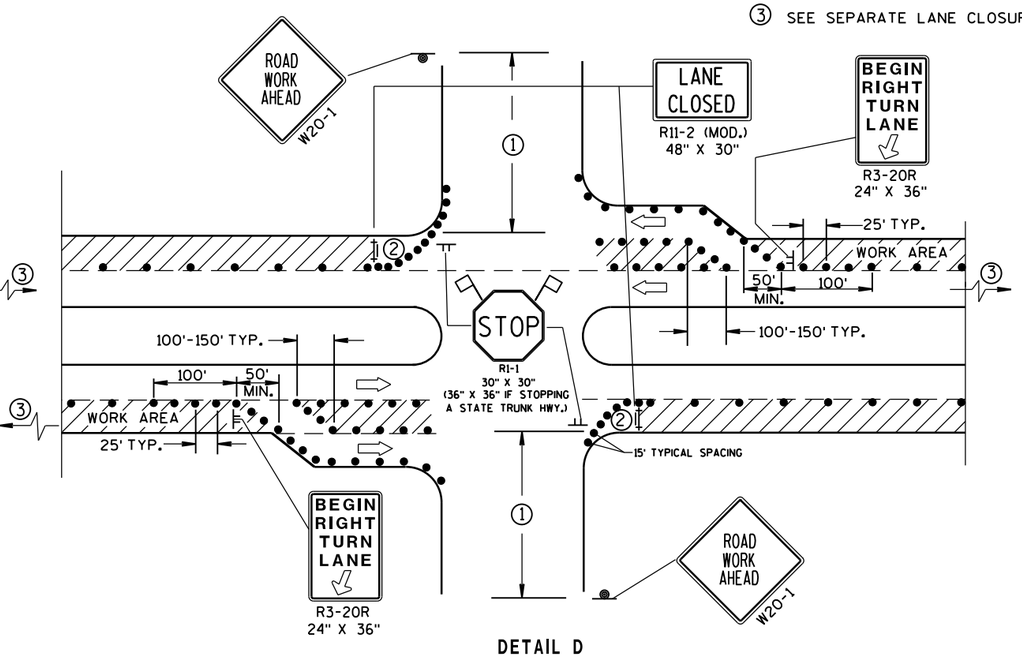
② ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

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
Nov. 2014 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 D 21-3
S.D.D. 15 D 21-3

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.

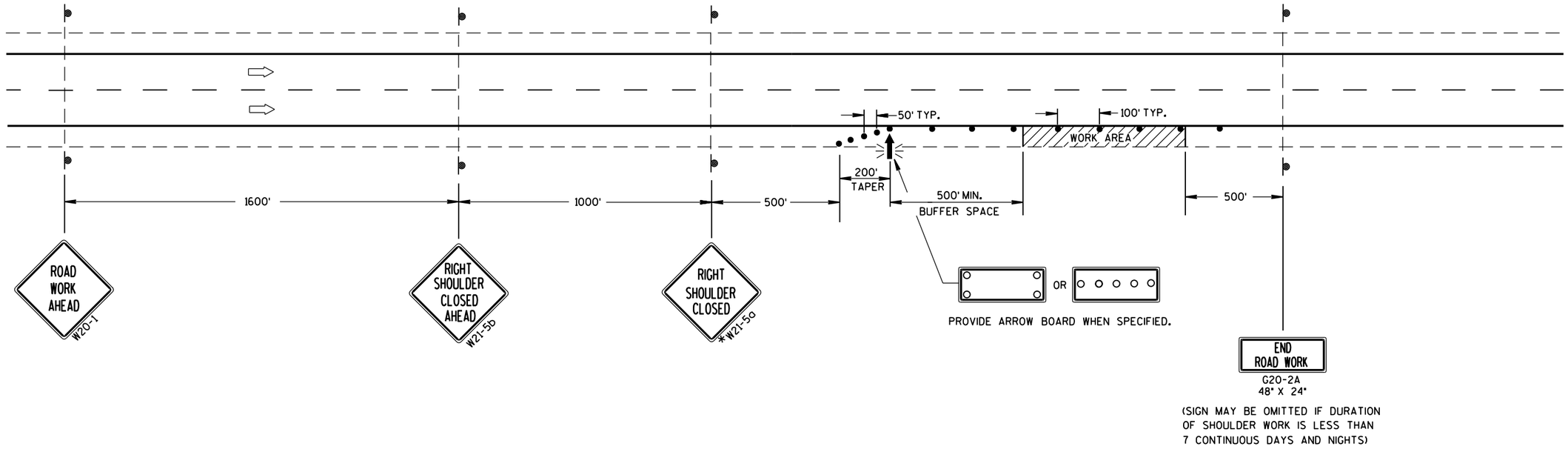
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

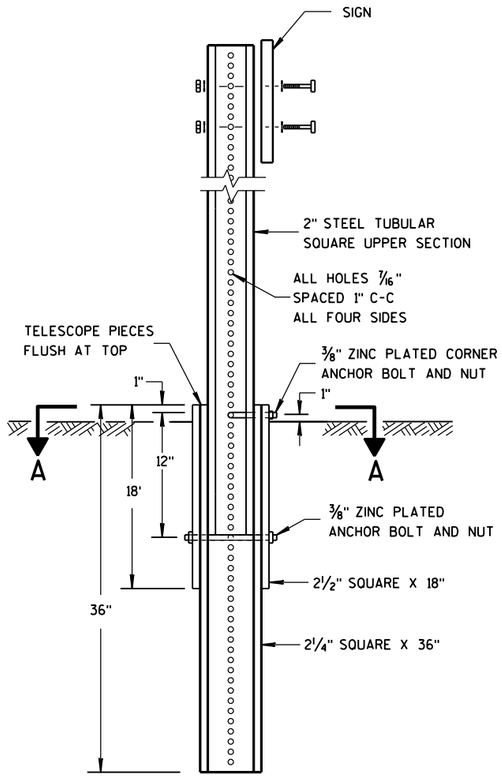
8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

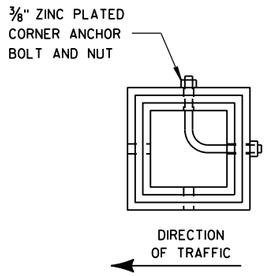
FHWA

6

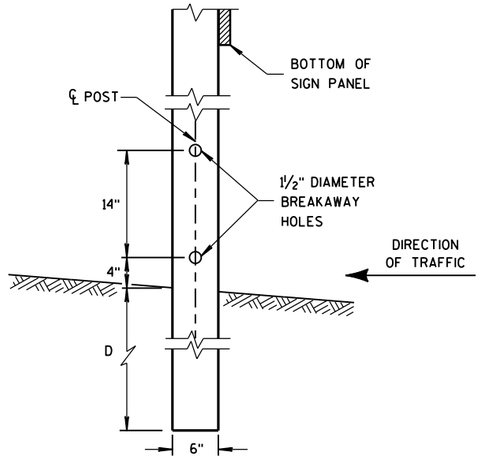
S.D.D. 15 D 27-2



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



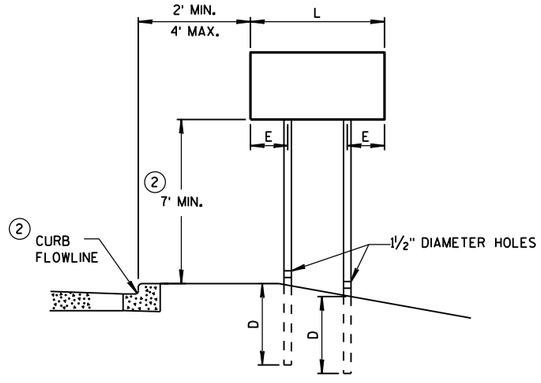
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

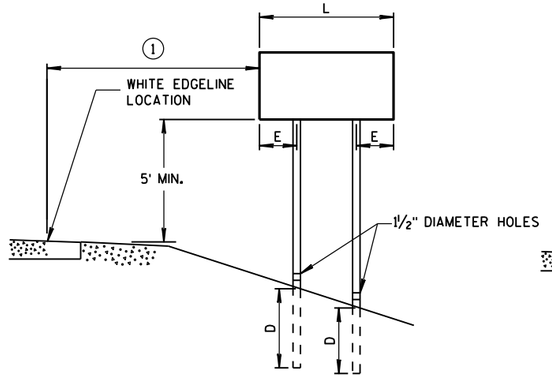
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

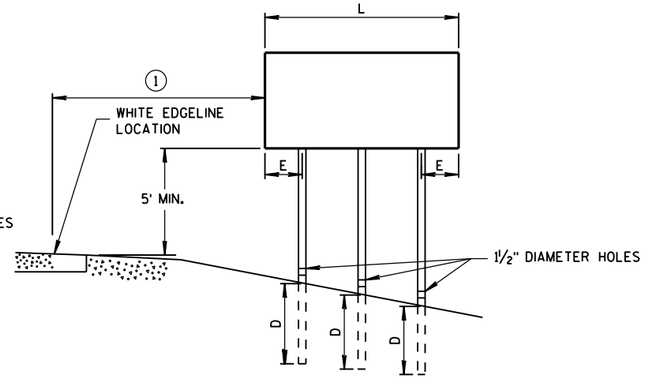
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK 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

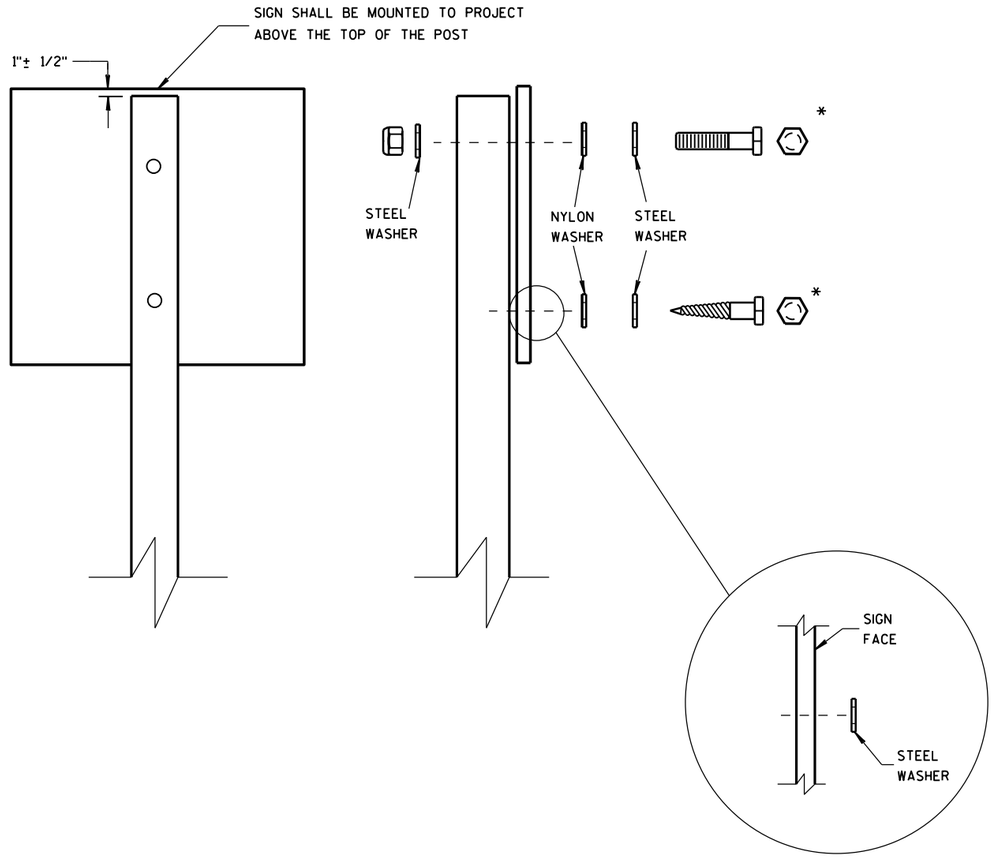
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPO

6

S.D.D. 15 D 38-1a



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.

6

6

S.D.D. 15 D 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

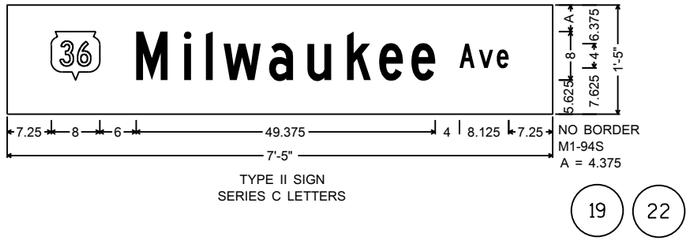
Feb. 2015
DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

447

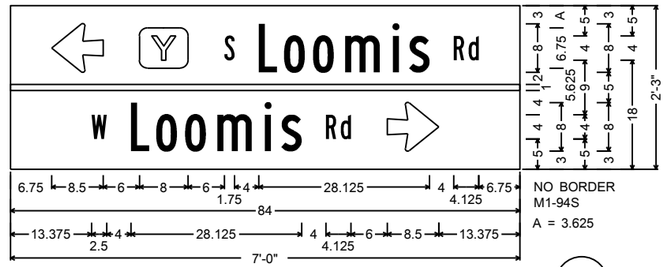
SIGN

FHWA



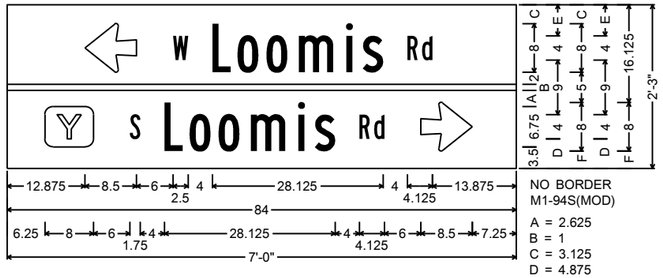
TYPE II SIGN
SERIES C LETTERS

19 22



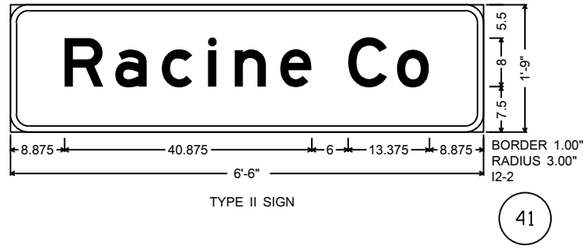
TYPE II SIGN
SERIES B LETTERS

20



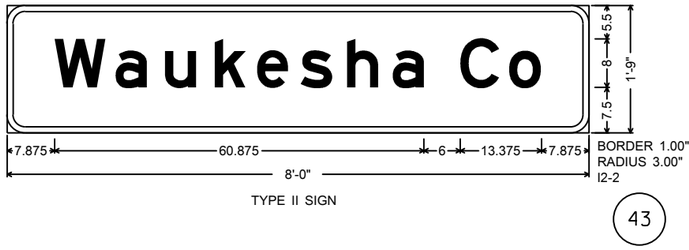
TYPE II SIGN
SERIES B LETTERS

21

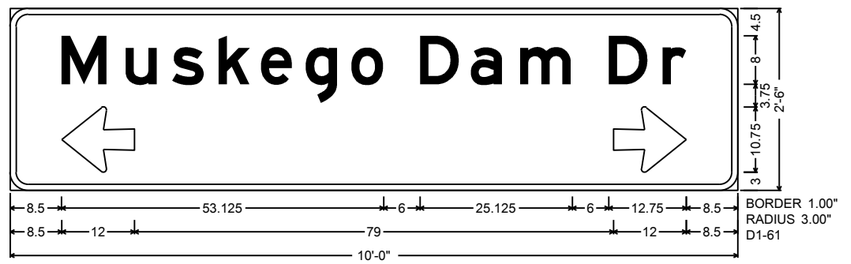


TYPE II SIGN

41



TYPE II SIGN

43

TYPE II SIGN

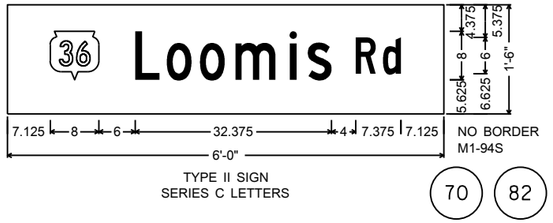
58 96

GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE II".
3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE "TYPE SH REFLECTIVE SHEETING".
4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A GREEN BACKGROUND AND WHITE MESSAGE.
5. TYPE II SIGNS ALL UPPERCASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E". ALL LOWERCASE MESSAGE WITH AN INITIAL UPPERCASE LETTER SHALL BE "SERIES E".
6. TYPE I SIGNS ALL UPPERCASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E MODIFIED". ALL LOWER CASE MESSAGE WITH AN INITIAL UPPERCASE LETTER SHALL BE "SERIES E MODIFIED". ALL CAP WORDS ARE "SERIES E".
7. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE "TYPE A" OR "TYPE C" ARROWS AS SHOWN. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS.
8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.
9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.
10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE "SERIES E" PER PLATES A11-7 AND A11-10.
11. DO NOT SCALE.

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RACINE/WAUKESHA/MILWAUKEE	SIGN DETAIL - TYPE II	SHEET 448	E

FILE NAME : N:\PDS\C3D\CAD\22401330\2012 COPIES\070101_MS.DWG
LAYOUT NAME - 070101_MS
PLOT DATE : 7/17/2015 1:17 PM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET



NO BORDER
M1-94S

TYPE II SIGN
SERIES C LETTERS

70 82

NO BORDER
M1-94H

A = 4.625
B = 4.375

TYPE II SIGN
SERIES C LETTERS

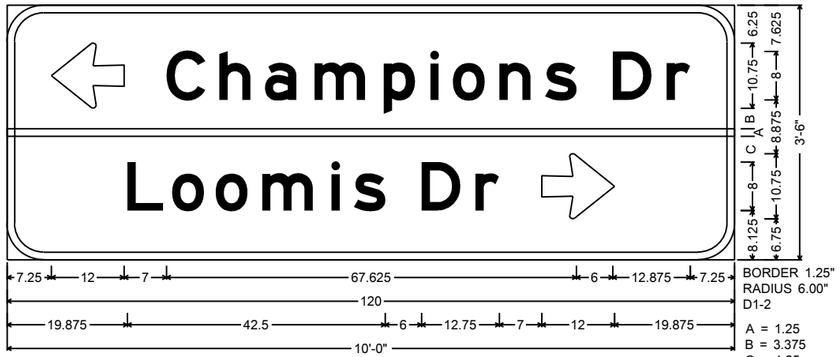
71 81

NO BORDER
M1-94S(MOD)

A = 0.625
B = 4.125
C = 2.375
D = 1.75
E = 3.75

TYPE II SIGN
SERIES B LETTERS

194

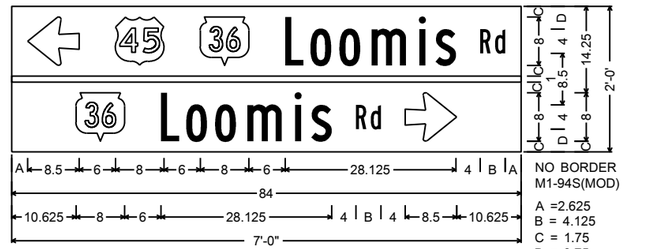


BORDER 1.25"
RADIUS 6.00"
D1-2

A = 1.25
B = 3.375
C = 4.25

TYPE II SIGN

146



NO BORDER
M1-94S(MOD)

A =2.625
B = 4.125
C = 1.75
D = 3.75

TYPE II SIGN
SERIES B LETTERS

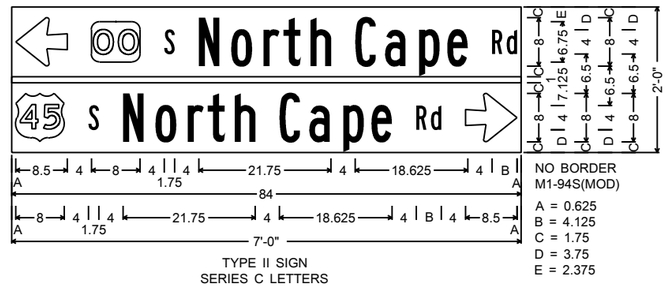
195

BORDER 1.25"
RADIUS 6.00"
D1-2

A = 1.25
B = 3.375
C = 4.25

TYPE II SIGN

155



NO BORDER
M1-94S(MOD)

A = 0.625
B = 4.125
C = 1.75
D = 3.75
E = 2.375

TYPE II SIGN
SERIES C LETTERS

196

GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE II".
3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE "TYPE SH REFLECTIVE SHEETING".
4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A GREEN BACKGROUND AND WHITE MESSAGE.
5. TYPE II SIGNS ALL UPPERCASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E". ALL LOWERCASE MESSAGE WITH AN INITIAL UPPERCASE LETTER SHALL BE "SERIES E".
6. TYPE I SIGNS ALL UPPERCASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E MODIFIED". ALL LOWER CASE MESSAGE WITH AN INITIAL UPPERCASE LETTER SHALL BE "SERIES E MODIFIED". ALL CAP WORDS ARE "SERIES E".
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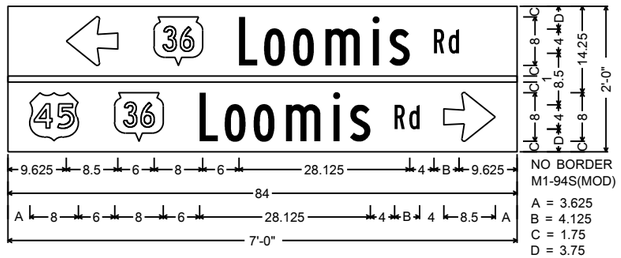
8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.
9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.
10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE "SERIES E" PER PLATES A11-7 AND A11-10.
11. DO NOT SCALE.

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RACINE/WAUKESHA/MILWAUKEE	SIGN DETAIL - TYPE II	SHEET 449	E

FILE NAME : N:\PDS\C3D\CAD\22401330\2012 COPIES\070101_MS.DWG
LAYOUT NAME - 070102_MS
PLOT DATE : 7/17/2015 1:17 PM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET



NO BORDER
M1-94S(MOD)

A = 3.625
B = 4.125
C = 1.75
D = 3.75

TYPE II SIGN
SERIES B LETTERS

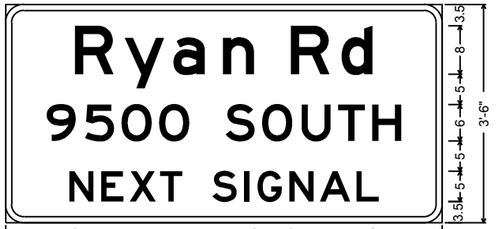
197

BORDER 1"
RADIUS 3"
D1-2

A = 2.875
B = 1.375
C = 3.625
D = 5.125

TYPE II SIGN

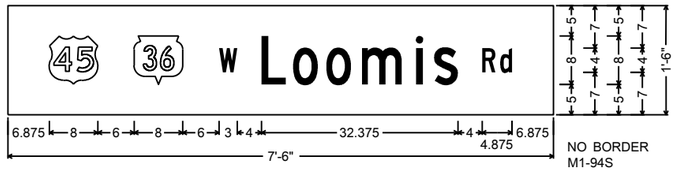
209



BORDER 1.00"
RADIUS 3.00"
D1-65(MOD)

TYPE II SIGN

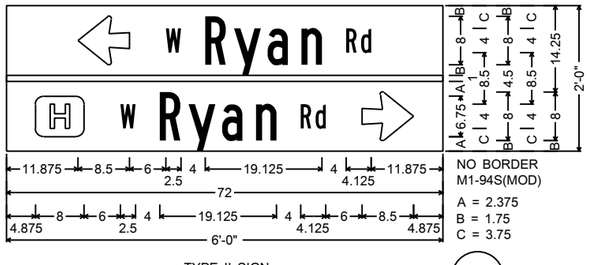
241 242



NO BORDER
M1-94S

TYPE II SIGN
SERIES C LETTERS

262 265

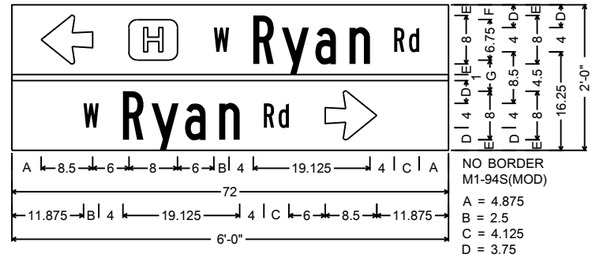


NO BORDER
M1-94S(MOD)

A = 2.375
B = 1.75
C = 3.75

TYPE II SIGN
SERIES C LETTERS

263



NO BORDER
M1-94S(MOD)

A = 4.875
B = 2.5
C = 4.125
D = 3.75
E = 1.75
F = 2.375
G = 5.125

TYPE II SIGN
SERIES C LETTERS

264

GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
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3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE "TYPE SH REFLECTIVE SHEETING".
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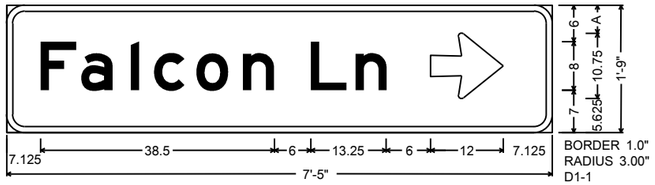
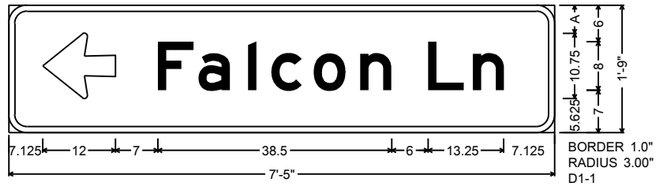
8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.
9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.
10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE "SERIES E" PER PLATES A11-7 AND A11-10.
11. DO NOT SCALE.



BORDER 1.0"
RADIUS 3.00"
D1-1

TYPE II SIGN

303



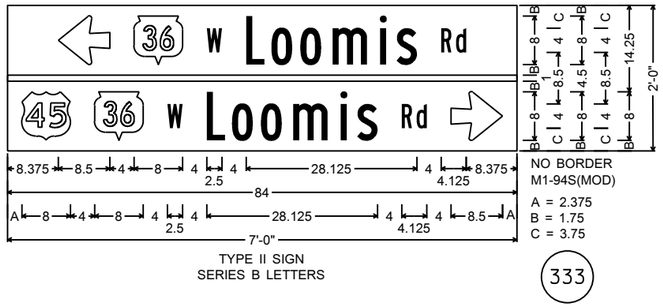
BORDER 1.0"
RADIUS 3.00"
D1-1

TYPE II SIGN

308

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RACINE/WAUKESHA/MILWAUKEE	SIGN DETAIL - TYPE II	SHEET 450	E

FILE NAME : N:\PDS\C3D\CAD\22401330\2012 COPIES\070101_MS.DWG
LAYOUT NAME - 070103_MS
PLOT DATE : 7/17/2015 1:18 PM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET

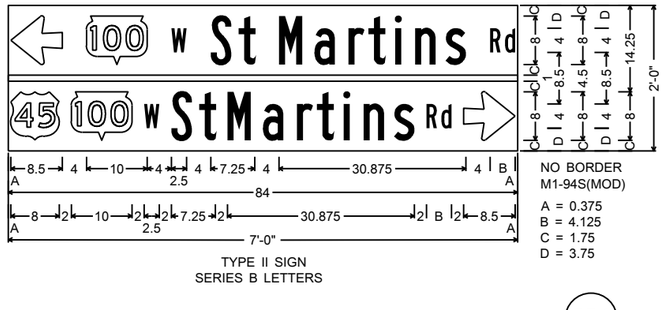


NO BORDER
M1-94S(MOD)

A = 2.375
B = 1.75
C = 3.75

TYPE II SIGN
SERIES B LETTERS

333



NO BORDER
M1-94S(MOD)

A = 0.375
B = 4.125
C = 1.75
D = 3.75

TYPE II SIGN
SERIES B LETTERS

334

GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
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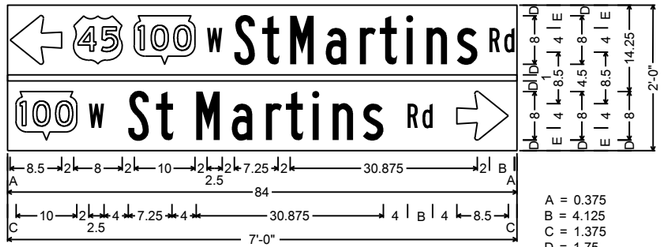
9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.
10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE "SERIES E" PER PLATES A11-7 AND A11-10.
11. DO NOT SCALE.

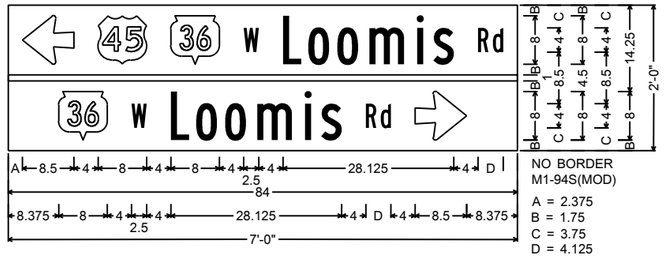


No border, White on Green;
Arrow D-4.5D&E - 8.500" 180°; State Highway 100 M1-56A; [W] B; [St] B; [Martins] B; [Rd] B; State Highway 100 M1-56A; [W] B; [St] B; [Martins] B; [Rd] B; Arrow D-4.5D&E - 8.500" 0°;

TYPE II SIGN
SERIES B LETTERS

A = 0.375
B = 4.125
C = 1.375
D = 1.75
E = 3.75

335



NO BORDER
M1-94S(MOD)

A = 2.375
B = 1.75
C = 3.75
D = 4.125

TYPE II SIGN
SERIES B LETTERS

336

SHEET 4 OF 4

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RACINE/WAUKESHA/MILWAUKEE	SIGN DETAIL - TYPE II	SHEET 451	E

FIXED MESSAGE SIGNS (DETAILS SHEETS)

GENERAL NOTES:

1. ALL SIGNS TO HAVE FLUORESCENT REFLECTIVE SHEETING – REFERENCE: "WISDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION.

2. AFTER SIGNS HAVE BEEN LOCATED IN THE FIELD, BUT BEFORE INSTALLATION, THE PROJECT ENGINEER SHALL VERIFY EACH SIGN LOCATION.

3. ALL SIGNS TO BE MOUNTED ON WOODEN POST SUPPORTS (4"x6") (FREEWAY) OR TUBULAR. STEEL POSTS OR 4X6 WOOD POSTS (NON FREEWAY). THE NUMBER OF POSTS REQUIRED FOR EACH LAYOUT IS SHOWN.

4. SIGNS ON THIS SHEET TO BE PAID UNDER THE ITEM "FIXED MESSAGE SIGNS."

5. SIGNS SHALL BE BLACK NON–REFLECTIVE MESSAGE ON ORANGE FLUORESCENT REFLECTIVE BACKGROUND PER SPEC 643 & 637.

6. ALL SIGNS SHALL HAVE CAPITAL LETTERS AND NUMERALS:
   12" CAPS SHALL BE SERIES "D"
   6" CAPS SHALL BE SERIES "C" – UNLESS OTHERWISE SHOWN

7. ALL SIGNS SHALL HAVE BORDER & RADIUS OF BORDERS AS FOLLOWS:

SIGN AREA	WIDTH OF BORDER
GREATER THAN 150 SQ FT	3"
60–150 SQ FT	2"
LESS THAN 60 SQ FT	1"

RADIUS SMALLEST OUTSIDE DIMENSION	CORNER RADIUS
> 8 FT	12"
≥ 6 FT	9"
≥ 4 FT	6"
LESS THAN 4 FT	3"

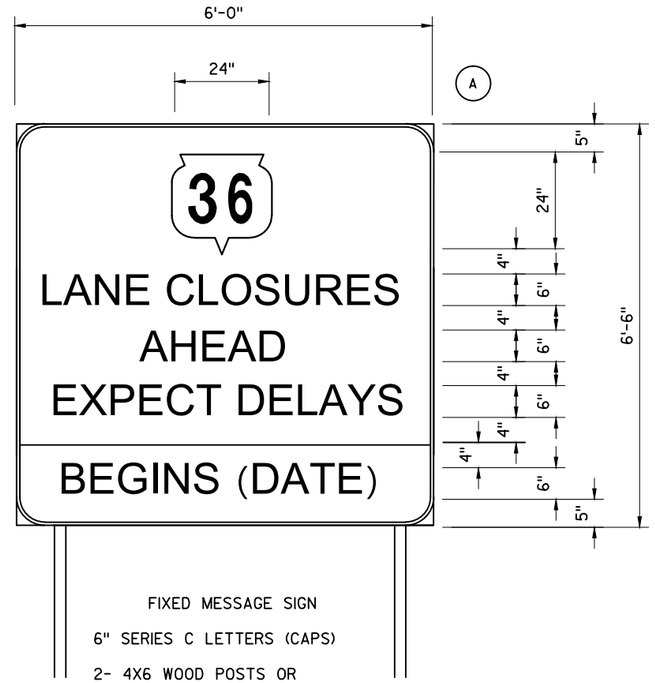
8. BEGIN XXX XX SIGNS SHALL BE SEPARATE PANELS, BUT SHALL BE CONSIDERED AS PART OF THE SIGN AND SHOULD BE REMOVED OR COVERED AFTER THEIR EFFECTIVE DATE. THE MONTH AND DAY SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.

9. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO MANUFACTURING.

10. SIGN BASE MATERIAL SHALL BE ACCORDING TO SECTION 643 & 637.

11. CONTRACTOR SHOULD LOCATE FIXED MESSAGE SIGNS A MINIMUM OF 400' FROM ANY EXISTING TYPE "I" SIGN.

(X)= SIGN NUMBER



FIXED MESSAGE SIGN

6" SERIES C LETTERS (CAPS)

2- 4X6 WOOD POSTS OR
3- 2X2 TUBULAR STEEL POSTS

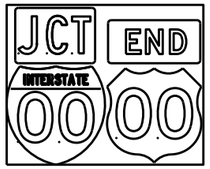
QTY= 4

7

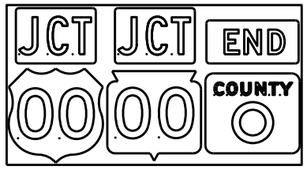
7

TYPICAL ASSEMBLIES

J1-1

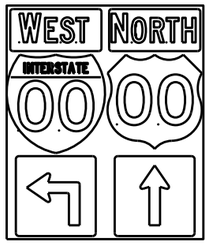


J1-2

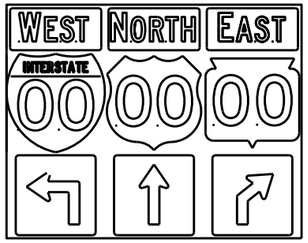


J1-3

J2-1



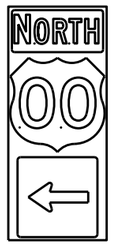
J2-2



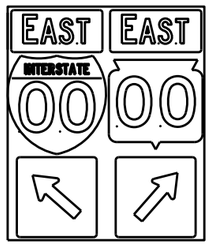
J2-3

JV

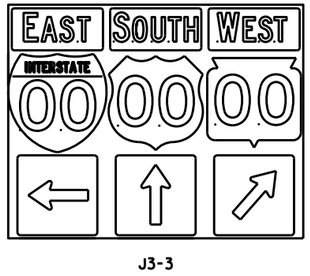
(Typical Vertical J-Assembly
See Note 10 and 11)



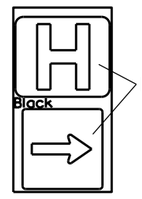
J3-1



J3-2



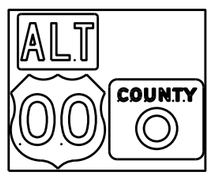
J3-3



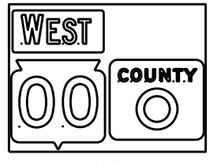
Blue Background

JH-1

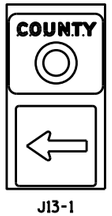
J4-1



J4-2



J4-2



J13-1

J12-1

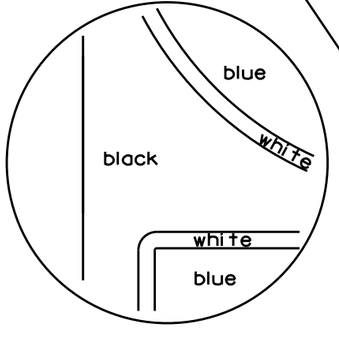
J32-1

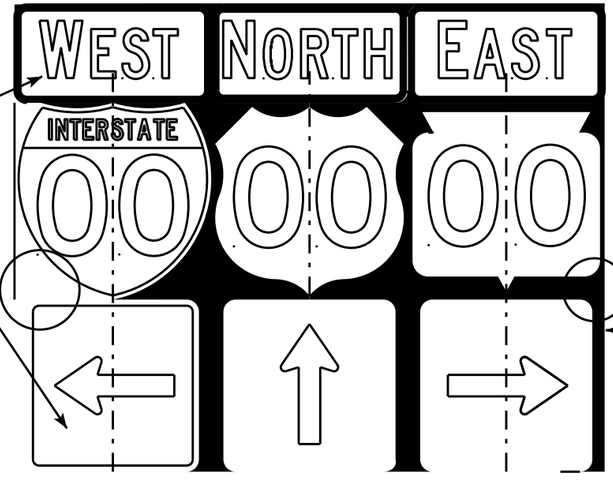
J33-1

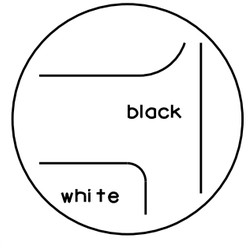
J23-1

J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

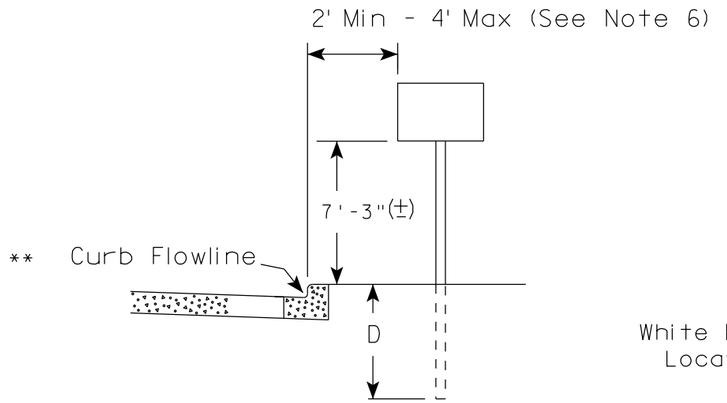
PROJECT NO:

SHEET NO: E

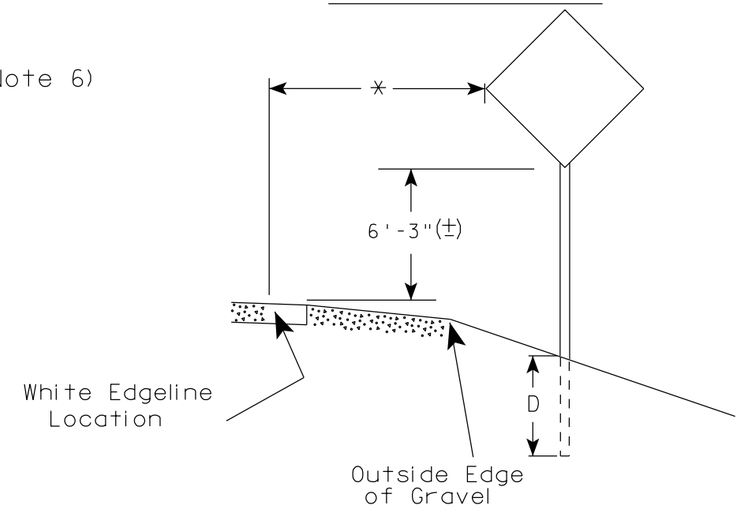
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

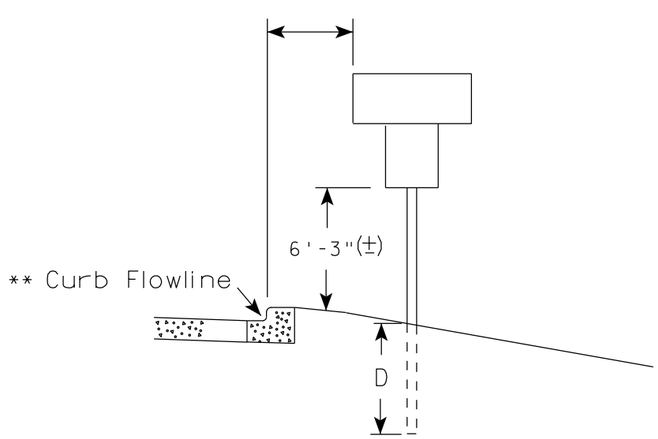
WISDOT/CADDS SHEET 42

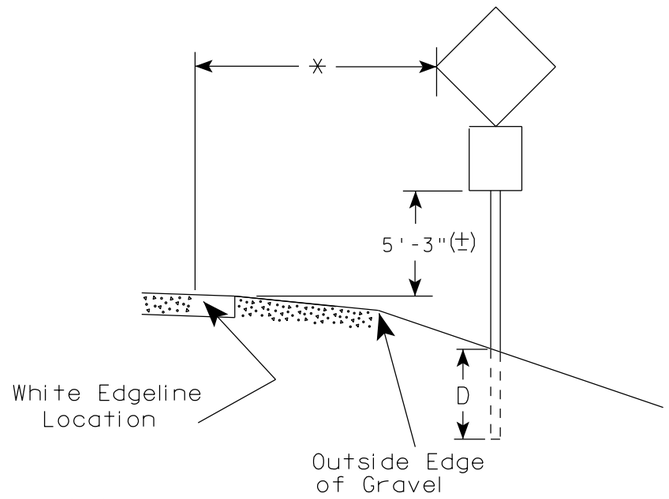
URBAN AREA



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. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

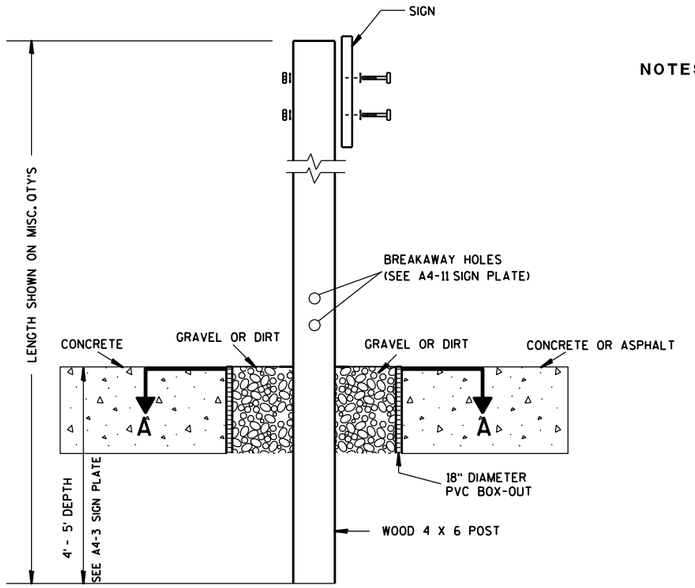
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

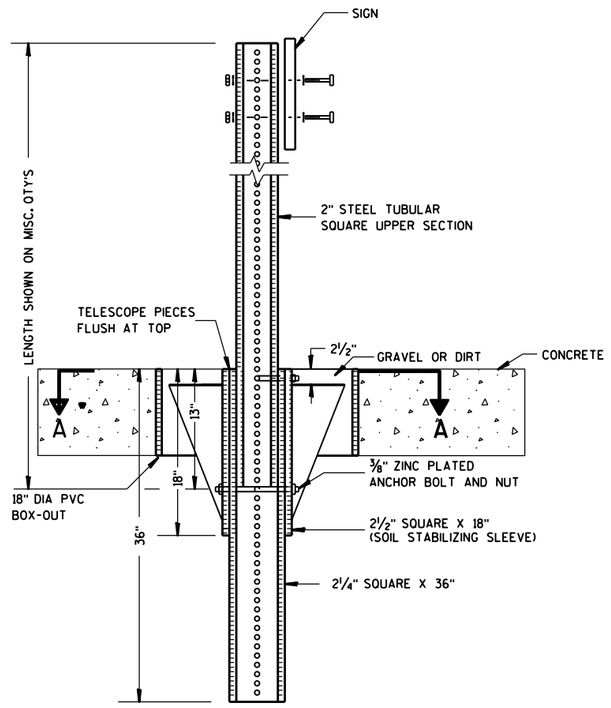
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

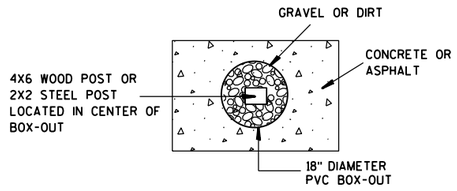
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

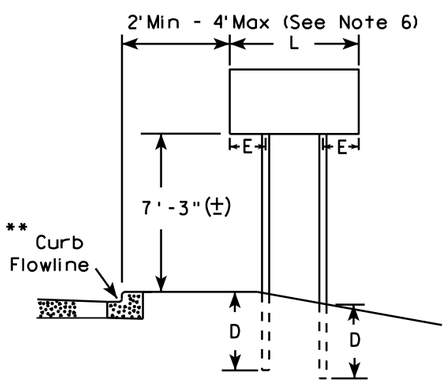
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

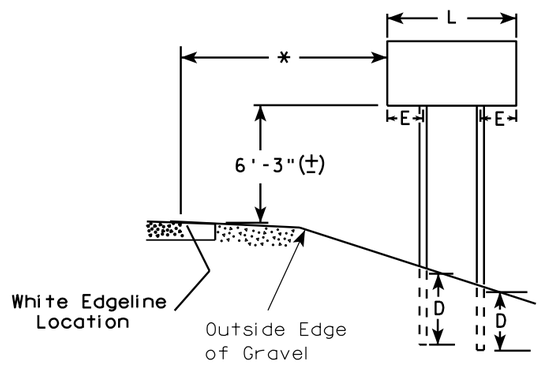
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

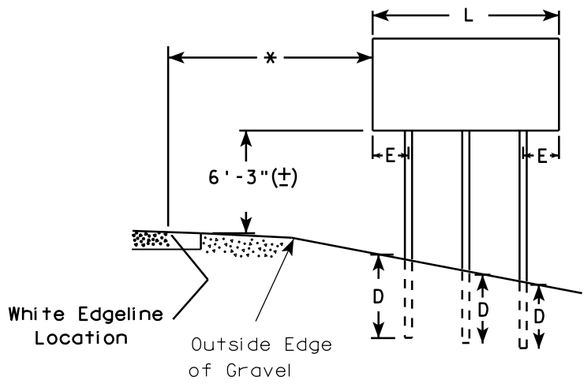
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

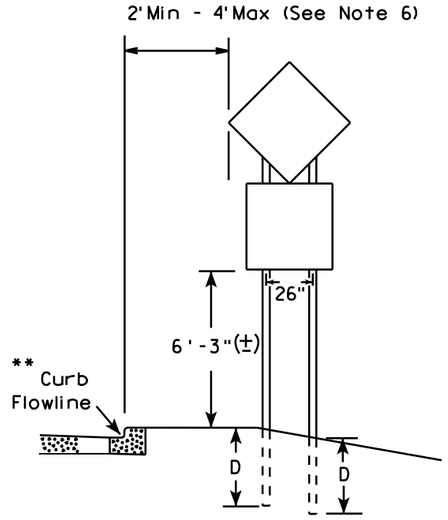
URBAN AREA



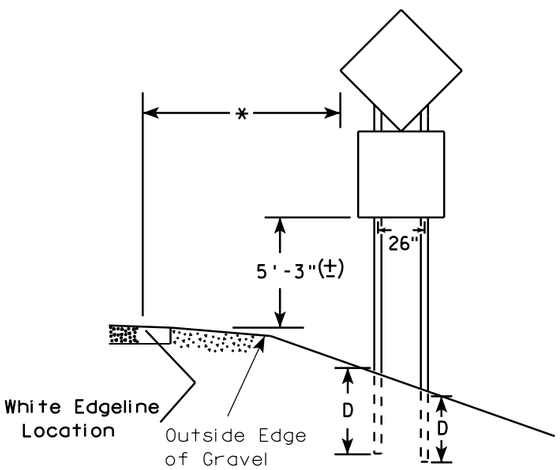
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

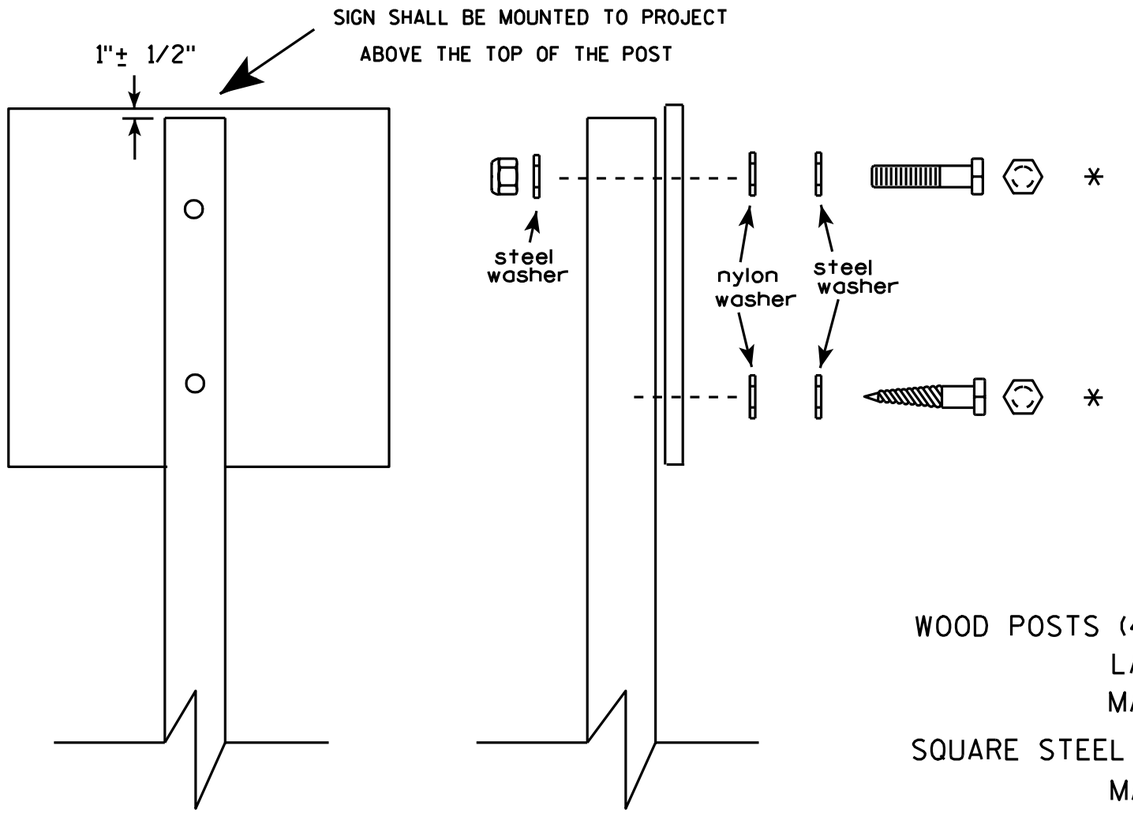
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 456 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 23-JUL-2015 15:23 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000 WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

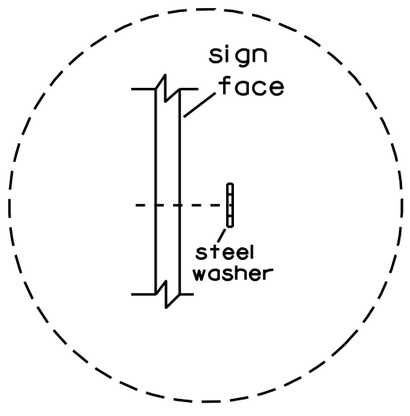
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts

SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/10 PLATE NO. A4-8.7

7

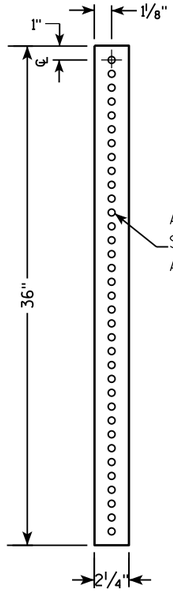
7

PROJECT NO:

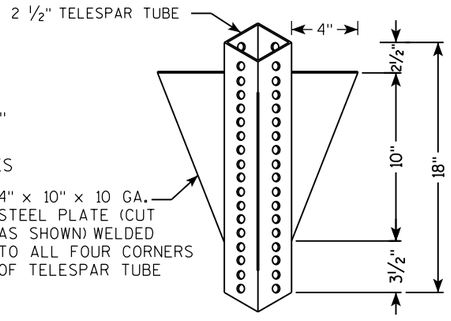
SHEET NO: 457 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

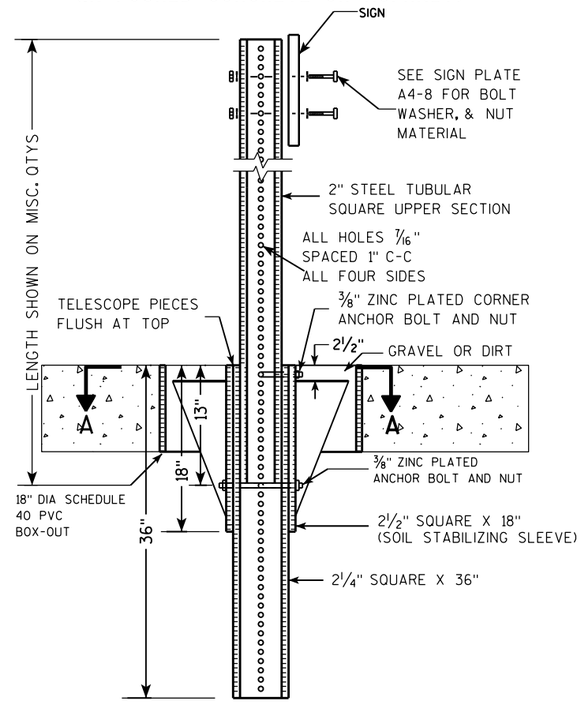
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



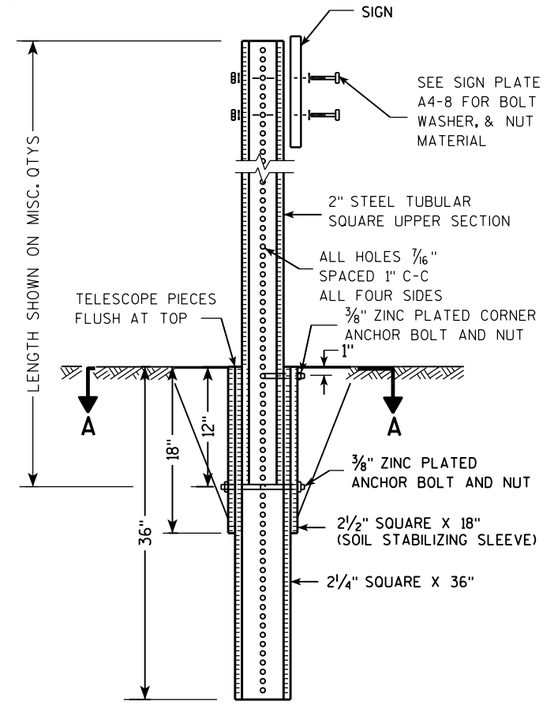
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

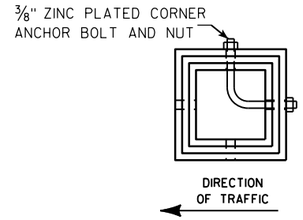


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

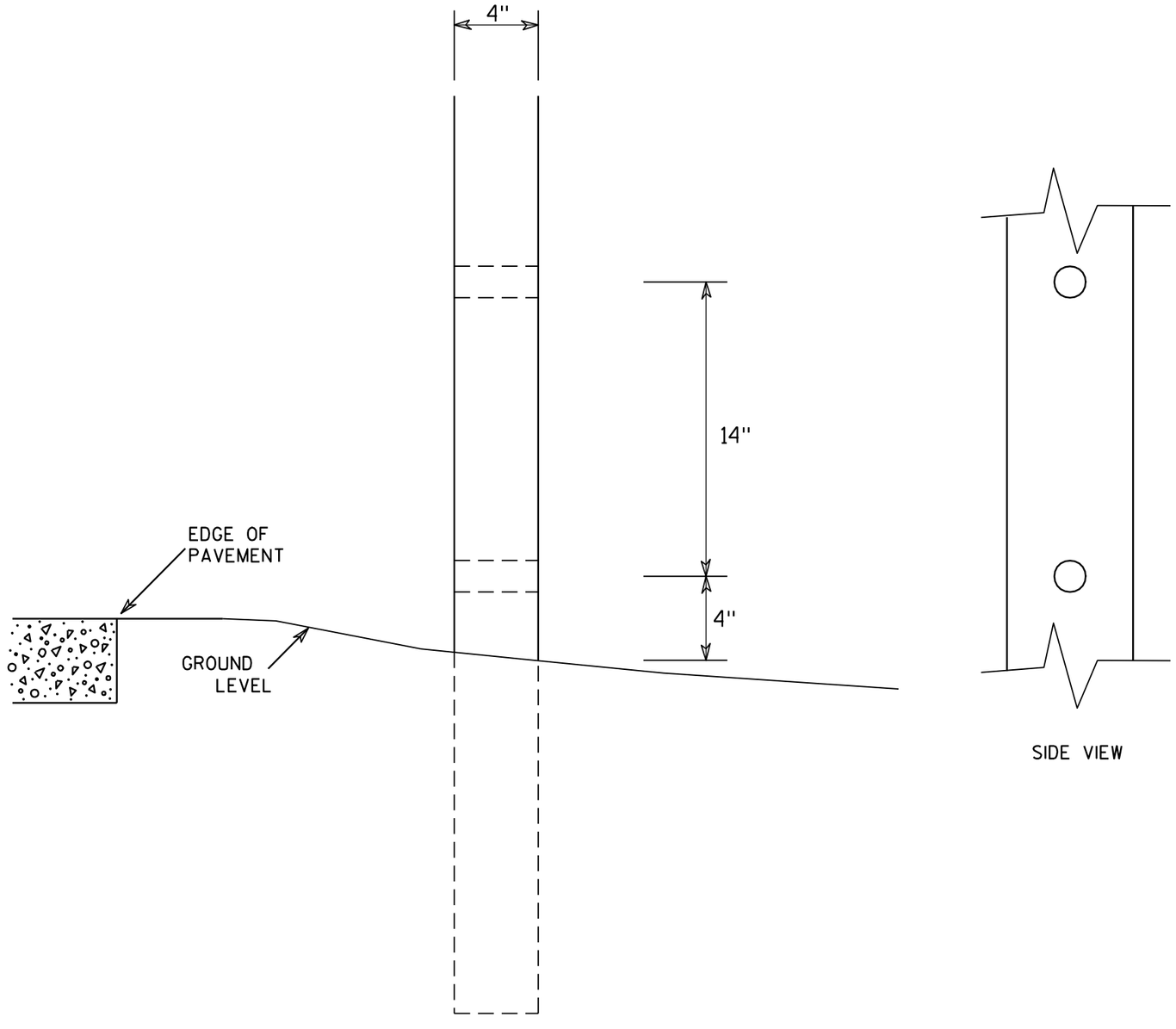
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 458 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

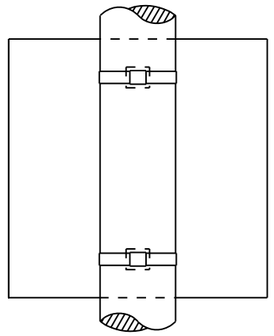
APPROVED Chester J Spang
for State Traffic Engineer

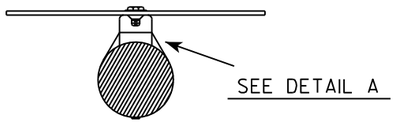
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 459	E

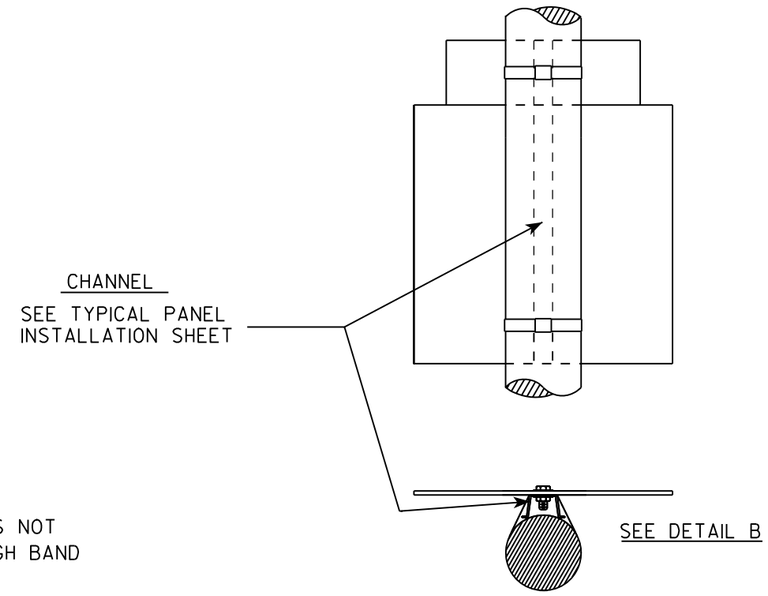
BANDING

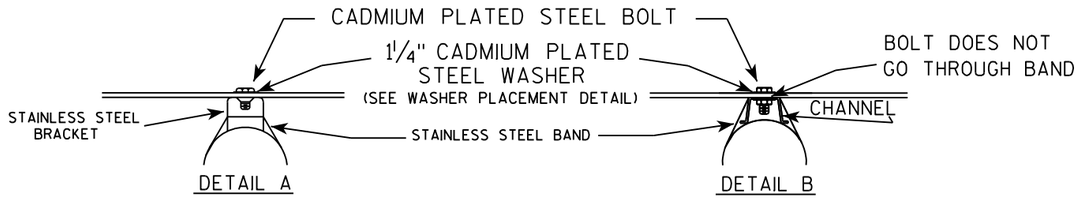
SINGLE SIGN



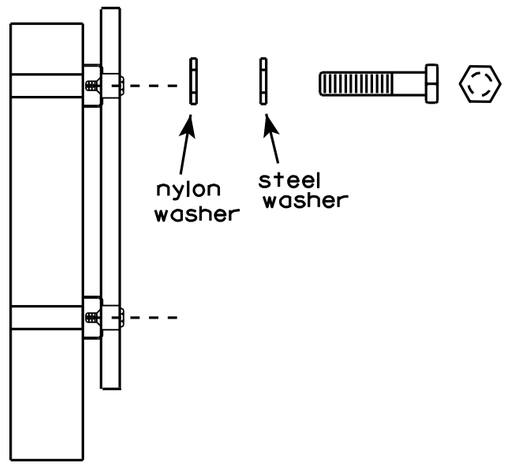


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

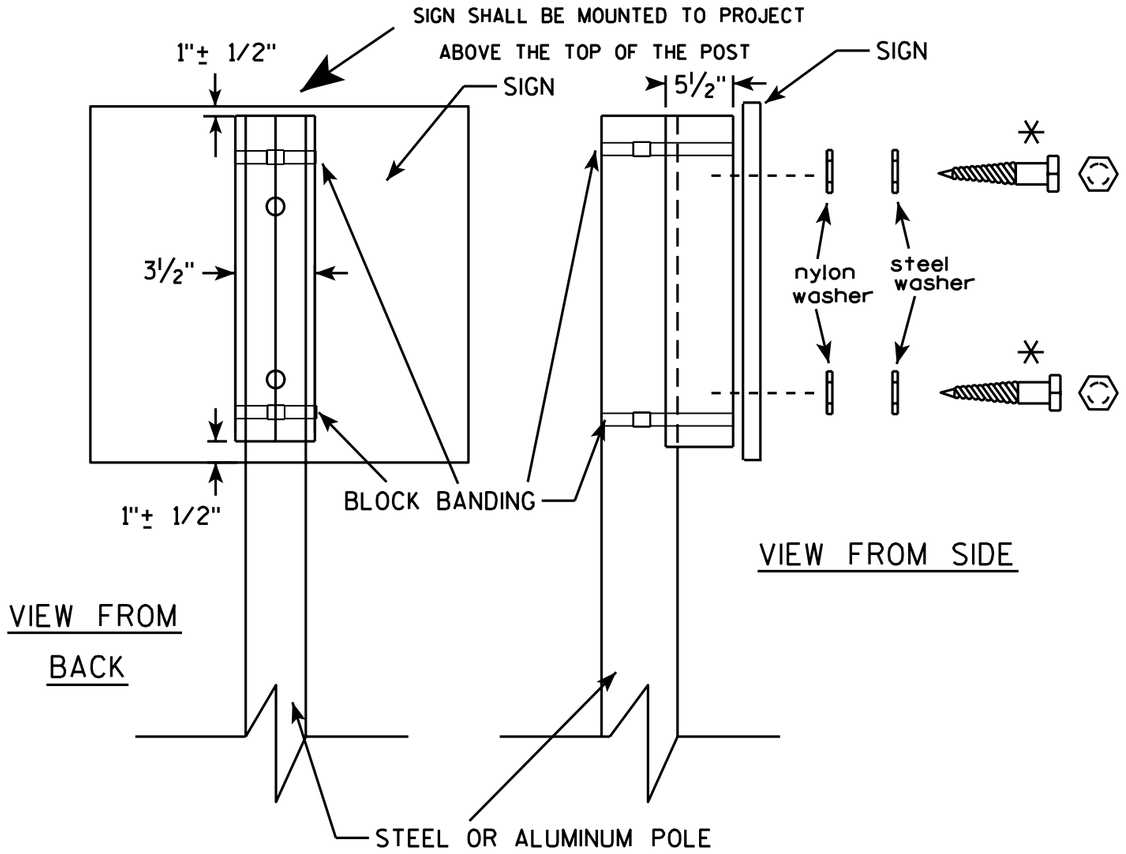
STANDARD SIGN
SIGN BANDING DETAILS

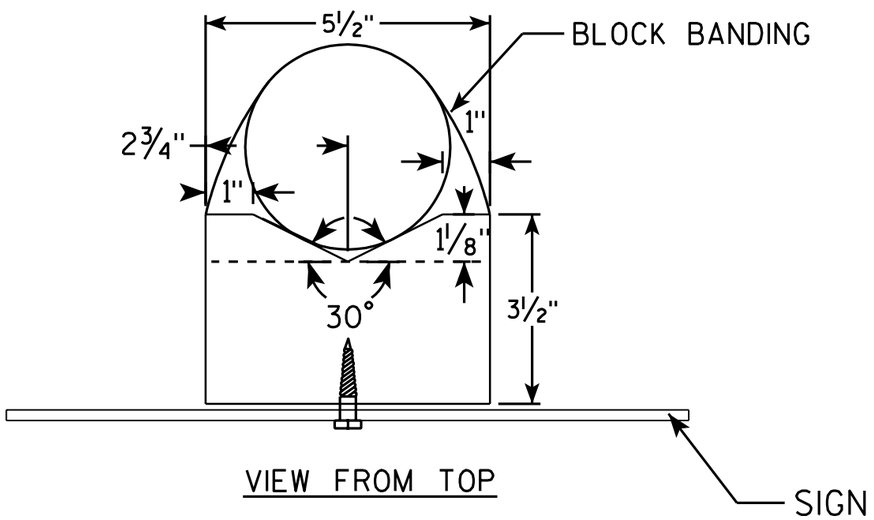
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 460	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

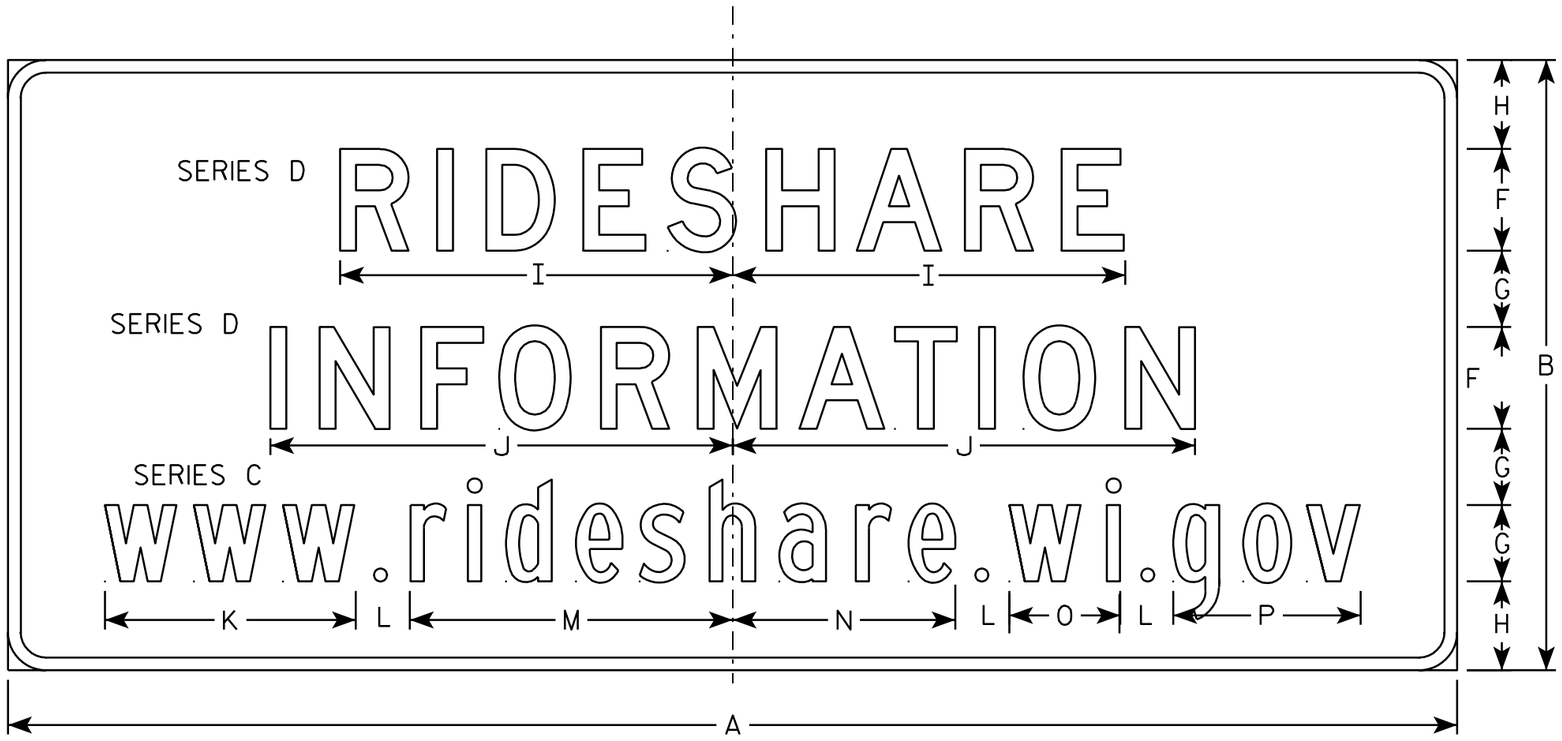
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 461 E



D12-2B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Blue
   Message - White
3. Message Series - Lines 1 & 2 are Series D and Line 3 is 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	
2	2100 mm X 900 mm
3	
4	2850 mm X 1200 mm
5	2850 mm X 1200 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	84	36	2 1/4		3/4	6	4 1/2	5 1/4	24 1/4	28 5/8	14 3/4	3	19	13 1/8	6 1/2	11											21.0	1.90
3																												
4	114	48	3		1	8	6	7	30 7/8	36 3/8	19 3/4	4 1/4	25 3/8	17 1/2	8 3/4	14 3/4											38.0	3.42
5	114	48	3		1	8	6	7	30 7/8	36 3/8	19 3/4	4 1/4	25 3/8	17 1/2	8 3/4	14 3/4											38.0	3.42

STANDARD SIGN
D12-2B

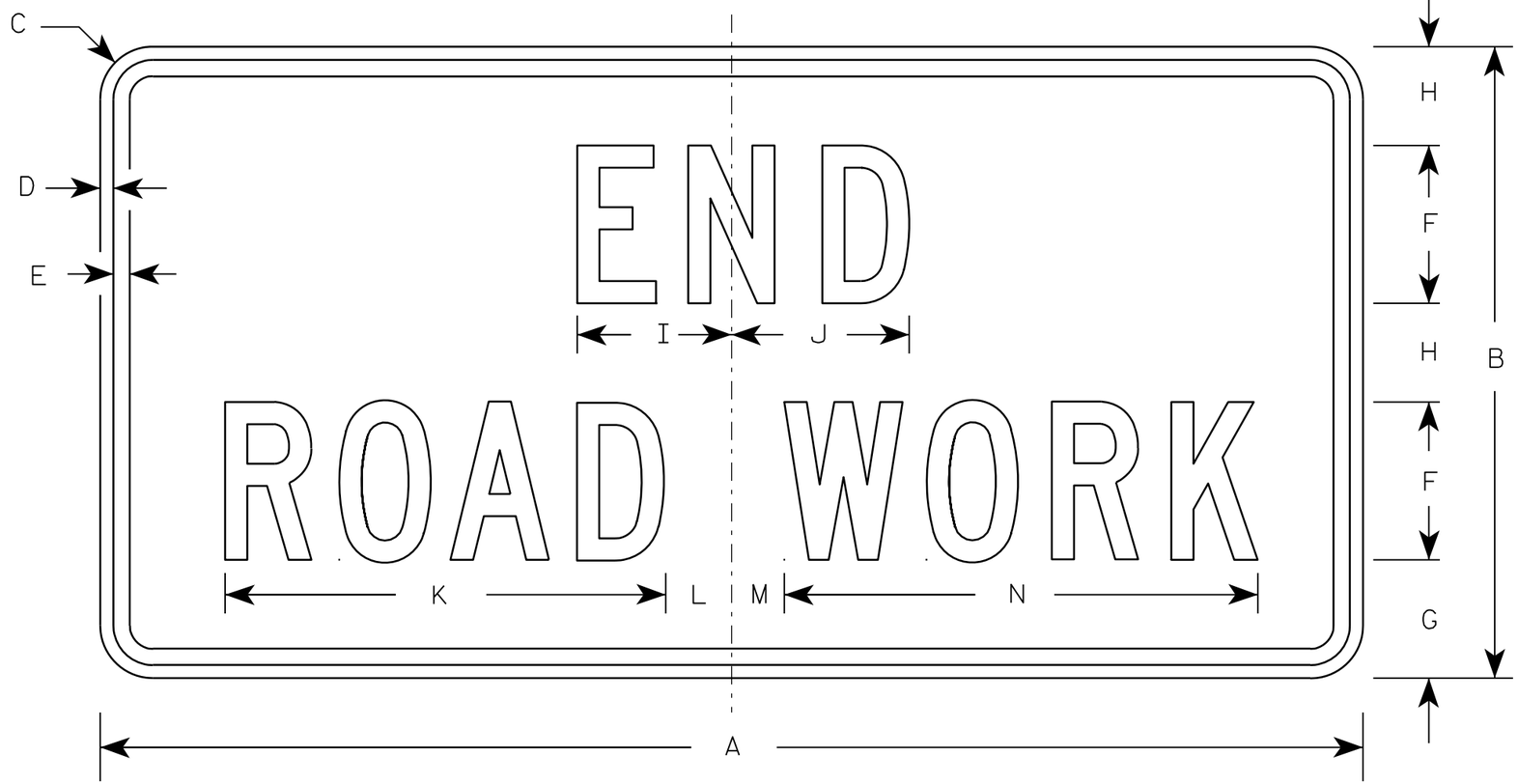
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/04/08 PLATE NO D12-2B.2

PROJECT NO:

SHEET NO: 462 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

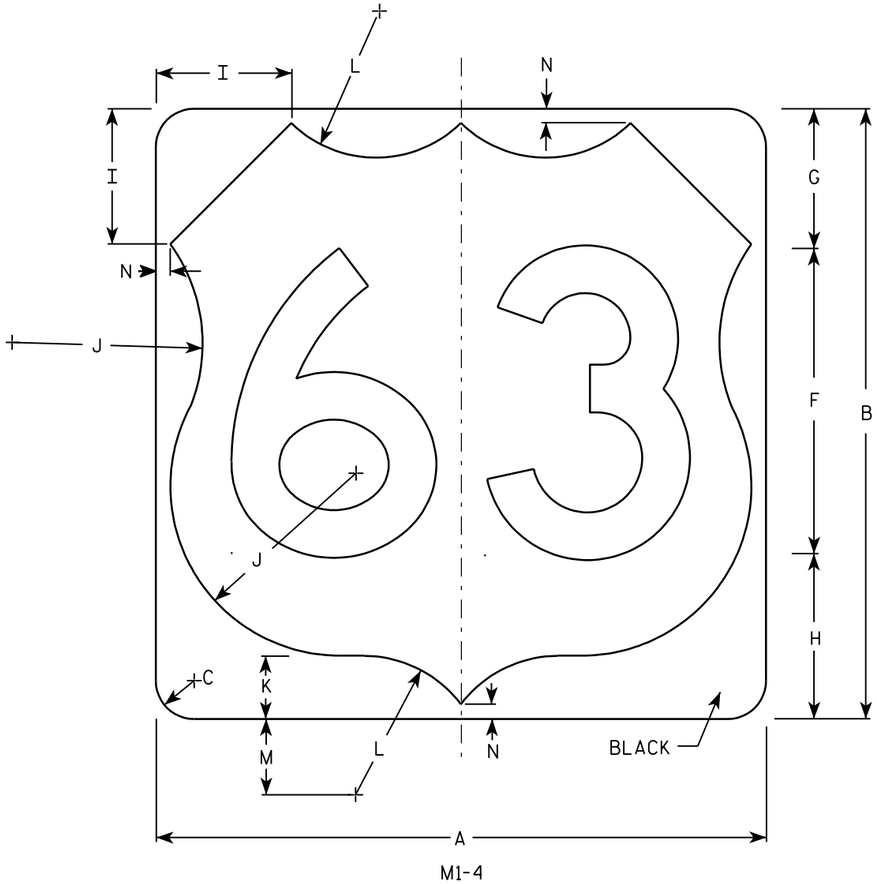
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

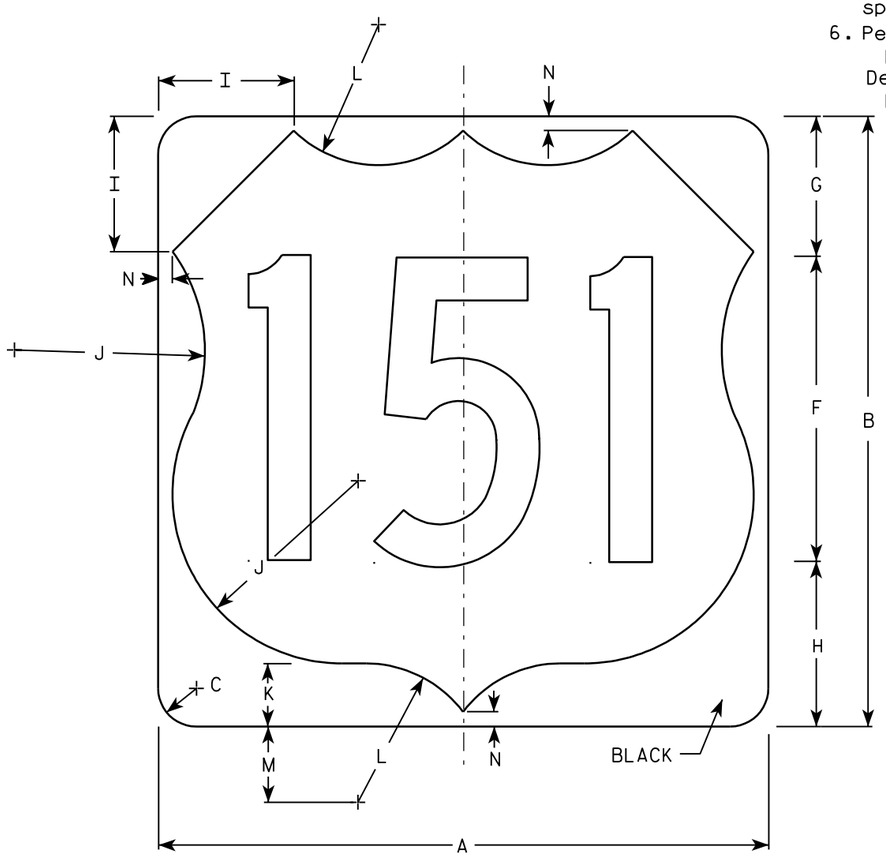
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 463	E

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective



M1-4



M1-4

7

7

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Areq sq. ft.	Area m2
1																												
2	24	24	1 ½			12	5 ½	6 ½	5	7 ½	2 ½	5 ½	3	½													4.0	.36
3	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0	.81
4	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0	.81
5	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0	.81

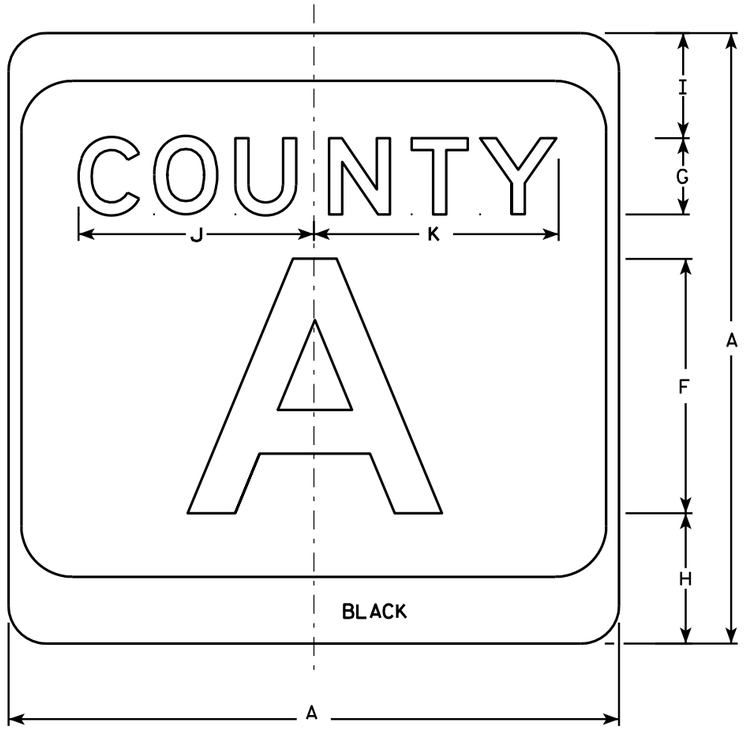
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

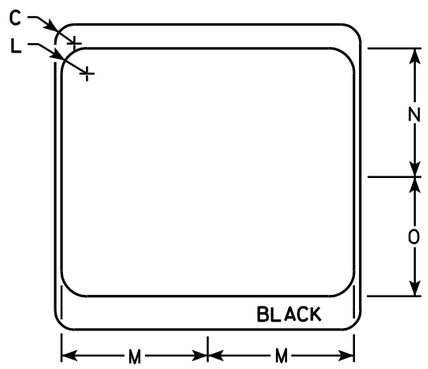
APPROVED Matthew R Rauch
for State Traffic Engineer

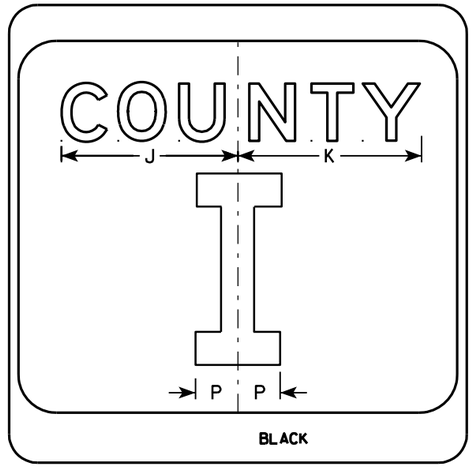
DATE 08/25/05 PLATE NO. M1-4.9

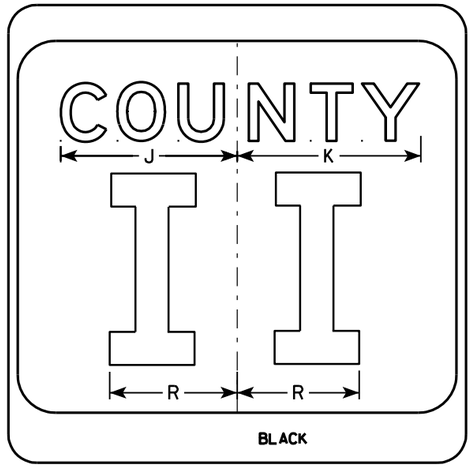
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 464	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

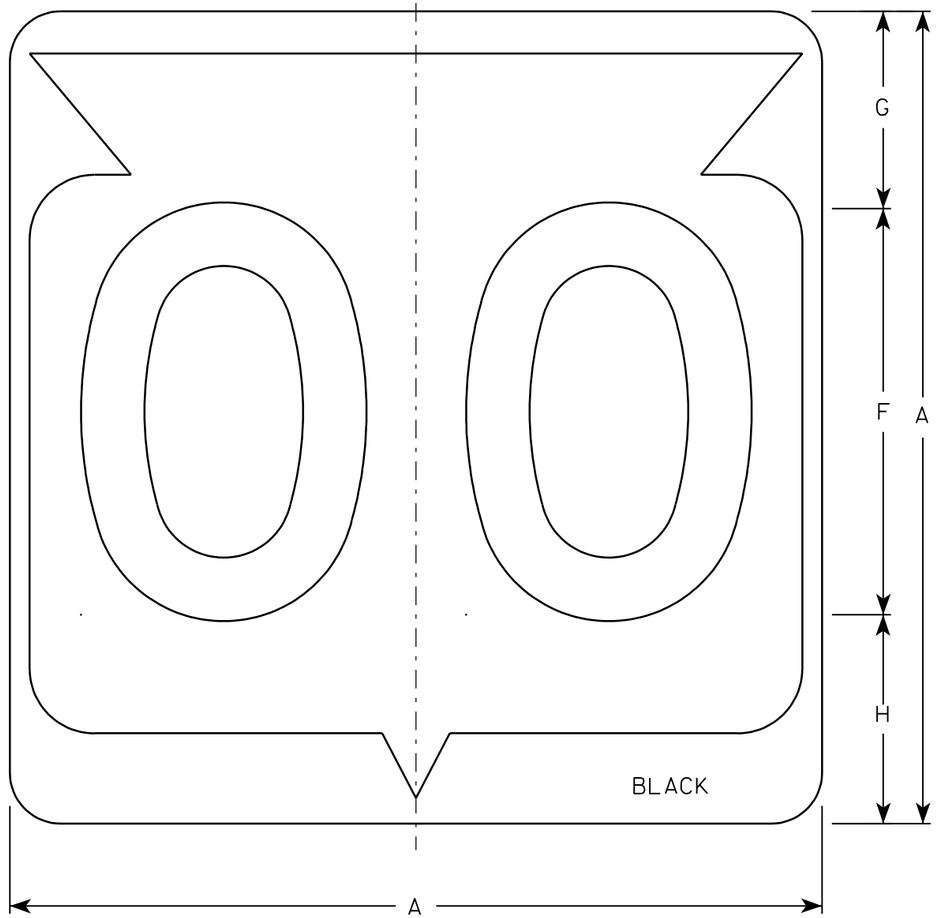
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

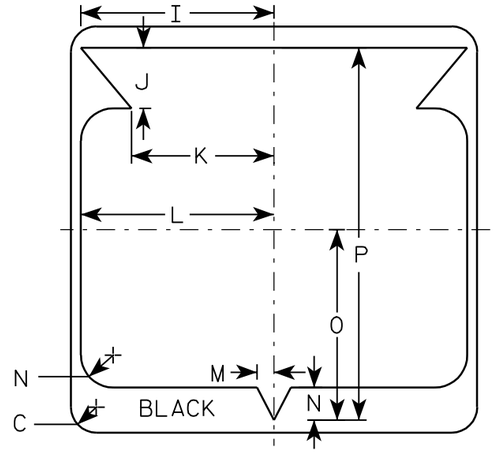
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 465	E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

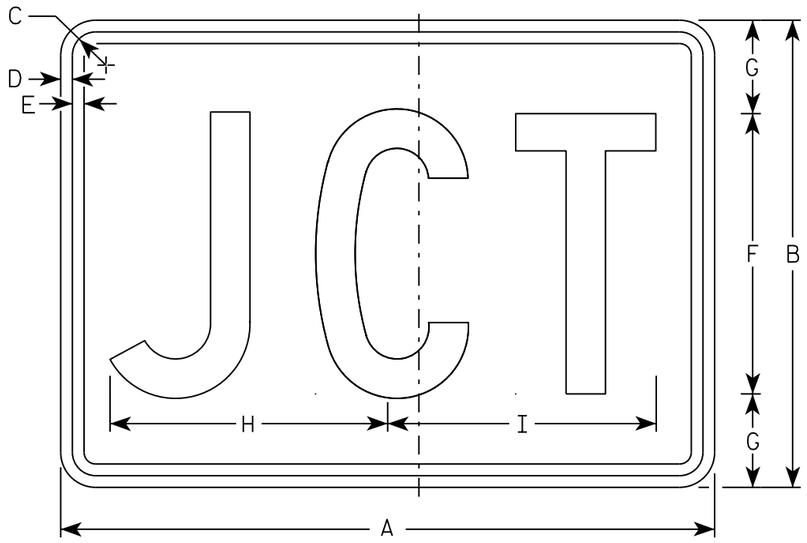
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

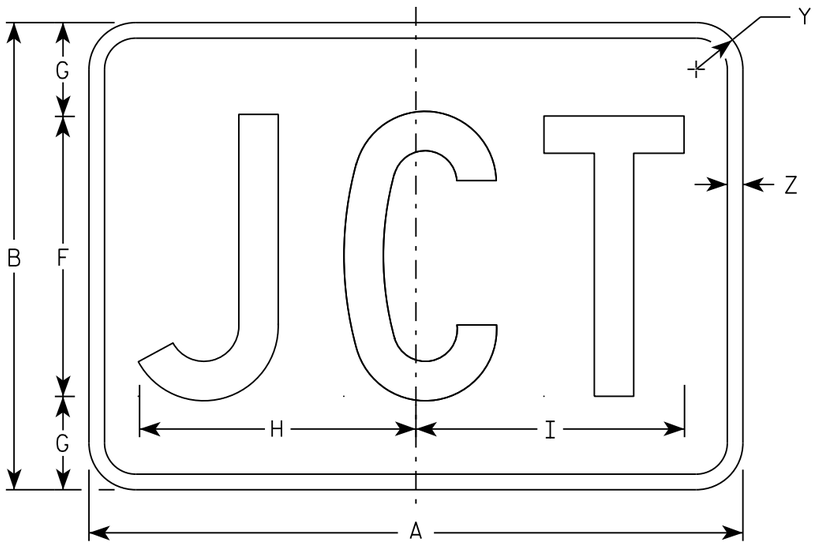
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 466	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

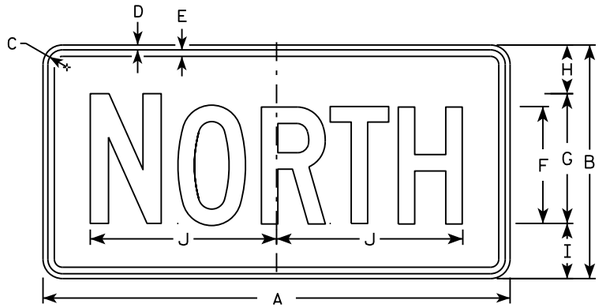
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

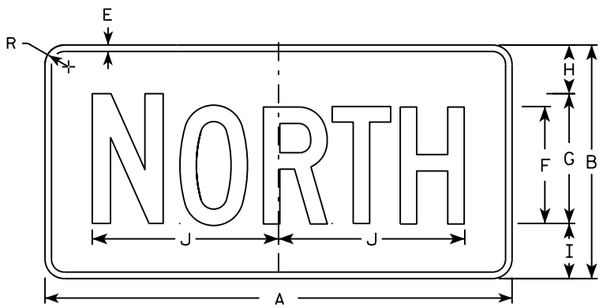
DATE 10/15/15 PLATE 467 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



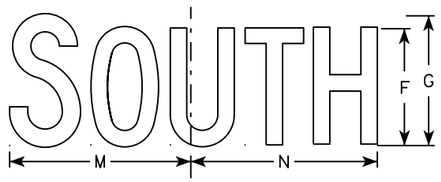
M3-1
MM3-1
MP3-1



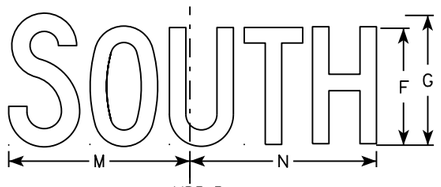
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

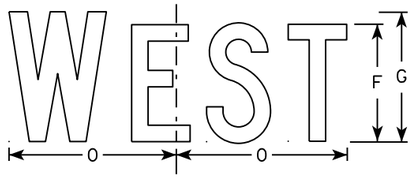
MB3-2
MK3-2
MN3-2



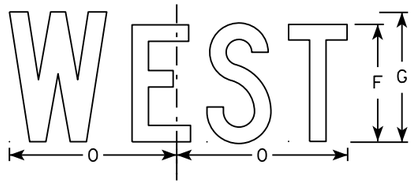
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

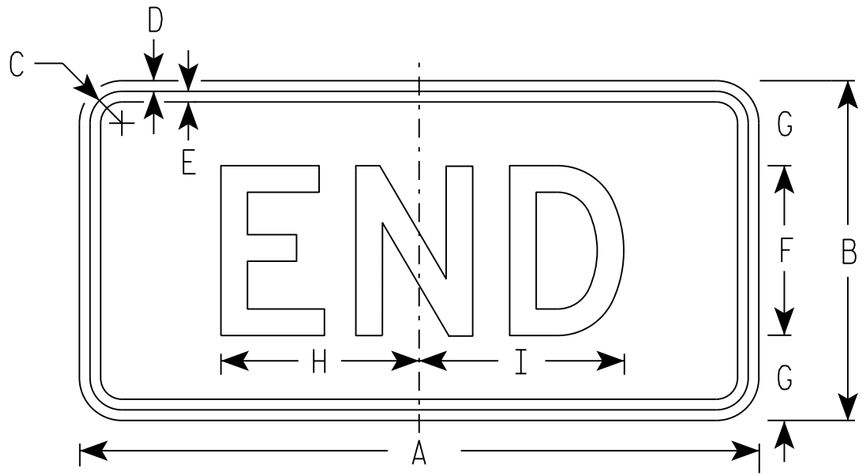
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

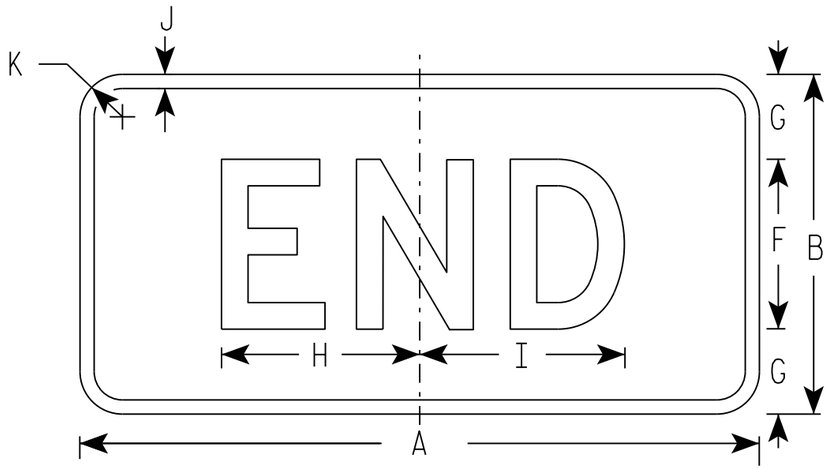
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-6
MM4-6
MP4-6



MB4-6
MK4-6
MN4-6
MR4-6

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
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. M4-6 Background - White
   Message - Black

   MB4-6 Background - Blue
   Message - White

   MK4-6 Background - Green
   Message - White

   MM4-6 Background - White
   Message - Green

   MN4-6 Background - Brown
   Message - White

   MP4-6 Background - White
   Message - Blue

   MR4-6 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-6

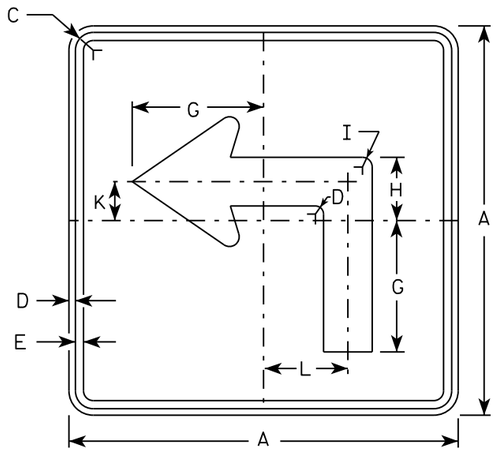
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

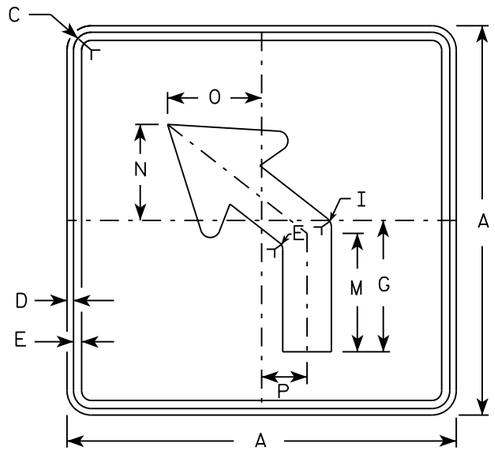
DATE 10/15/15 PLATE 469 '14-7.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

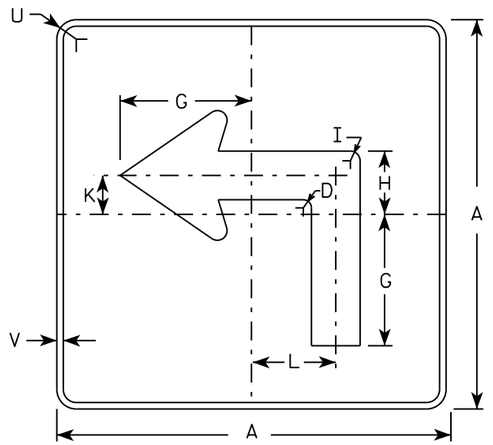
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M46.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



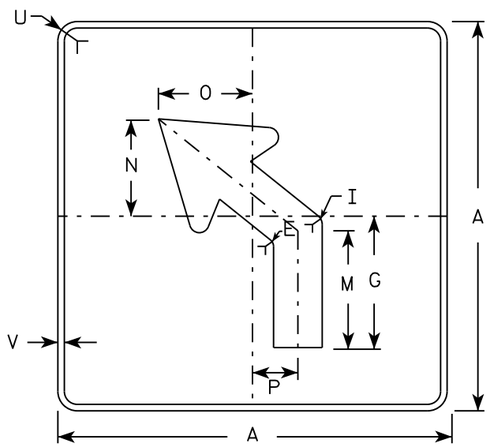
M5-1L
MM5-1L
MO5-1L
MP5-1L



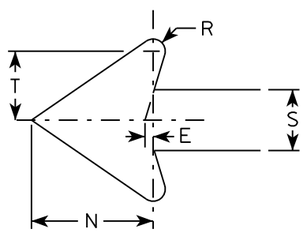
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

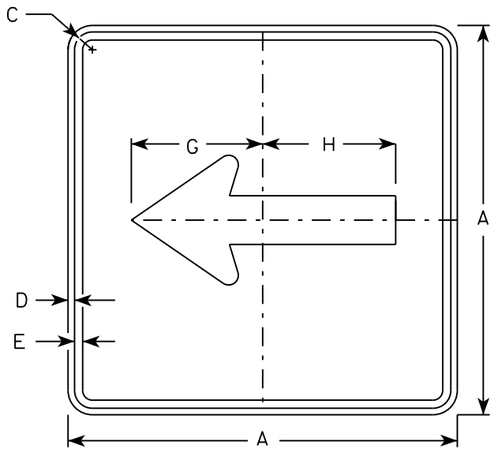
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

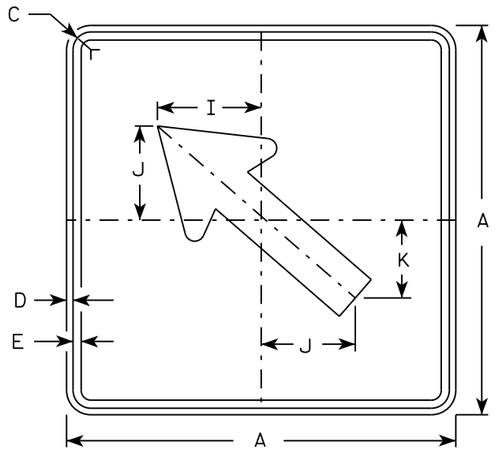
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



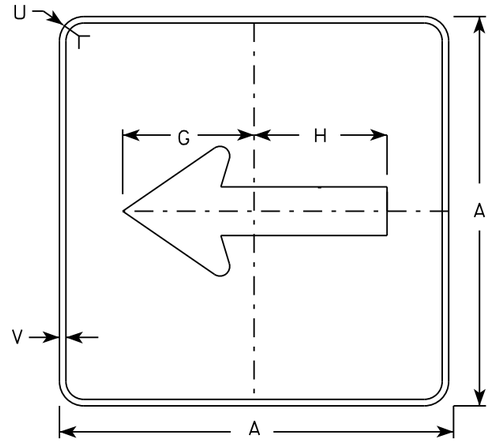
M6-1
MM6-1
MO6-1
MP6-1



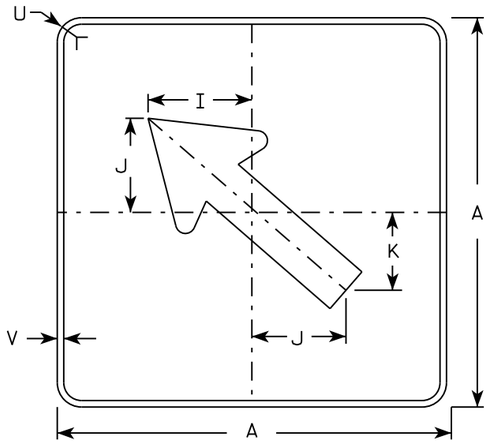
M6-2
MM6-2
MO6-2
MP6-2

NOTES

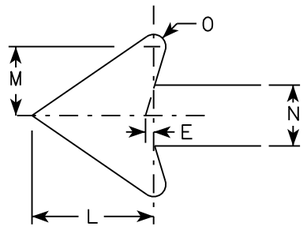
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN M6-1 & M6-2 SERIES

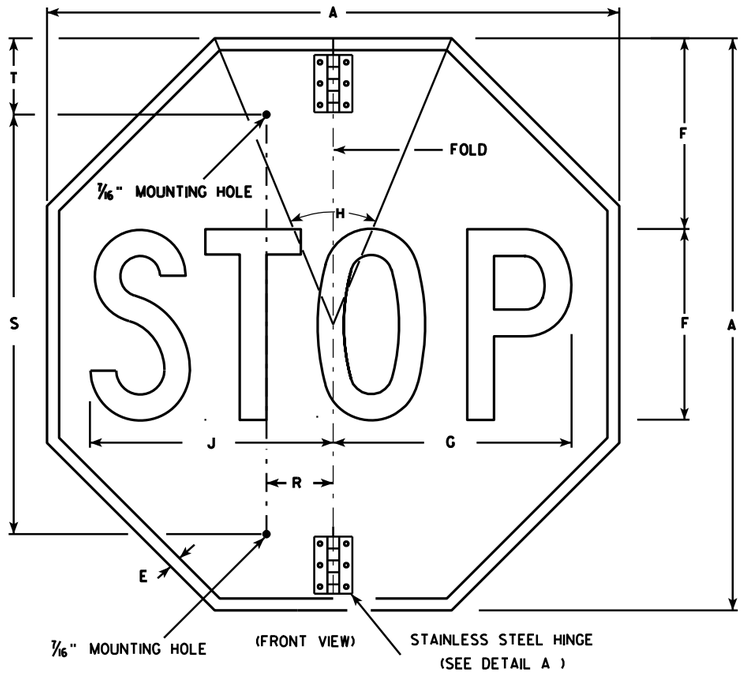
WISCONSIN DEPT OF TRANSPORTATION

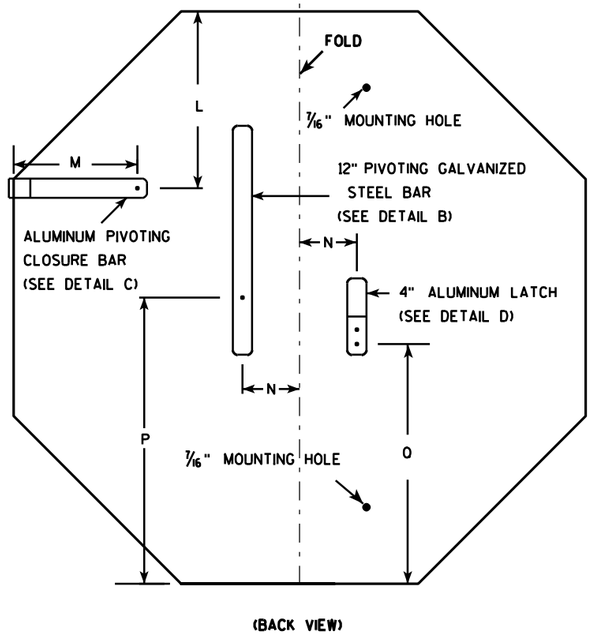
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 471 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

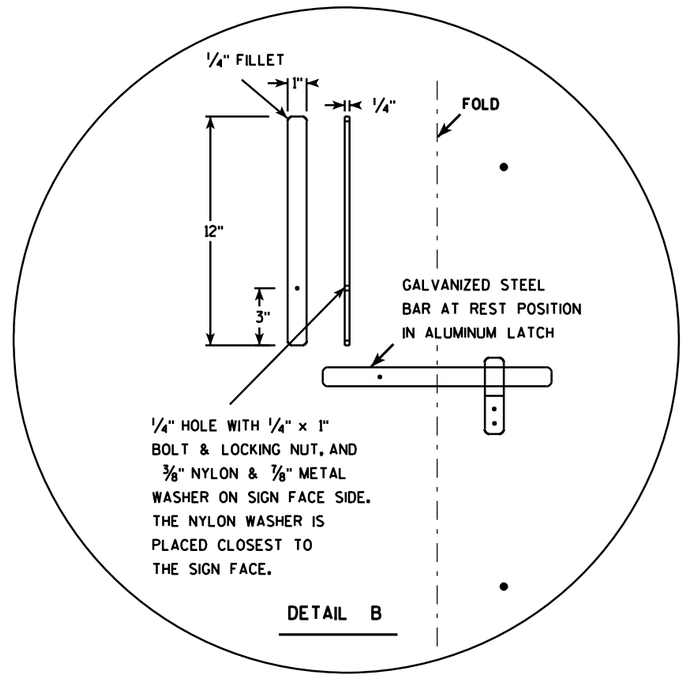
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000

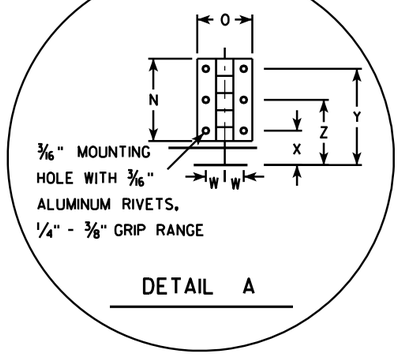


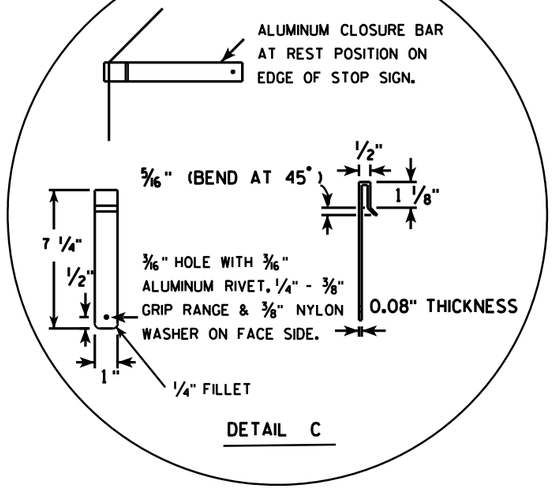


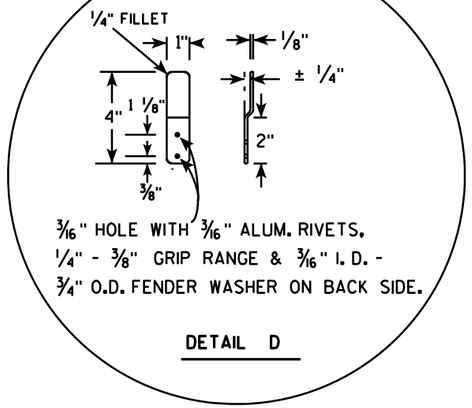
NOTES

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
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.









SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

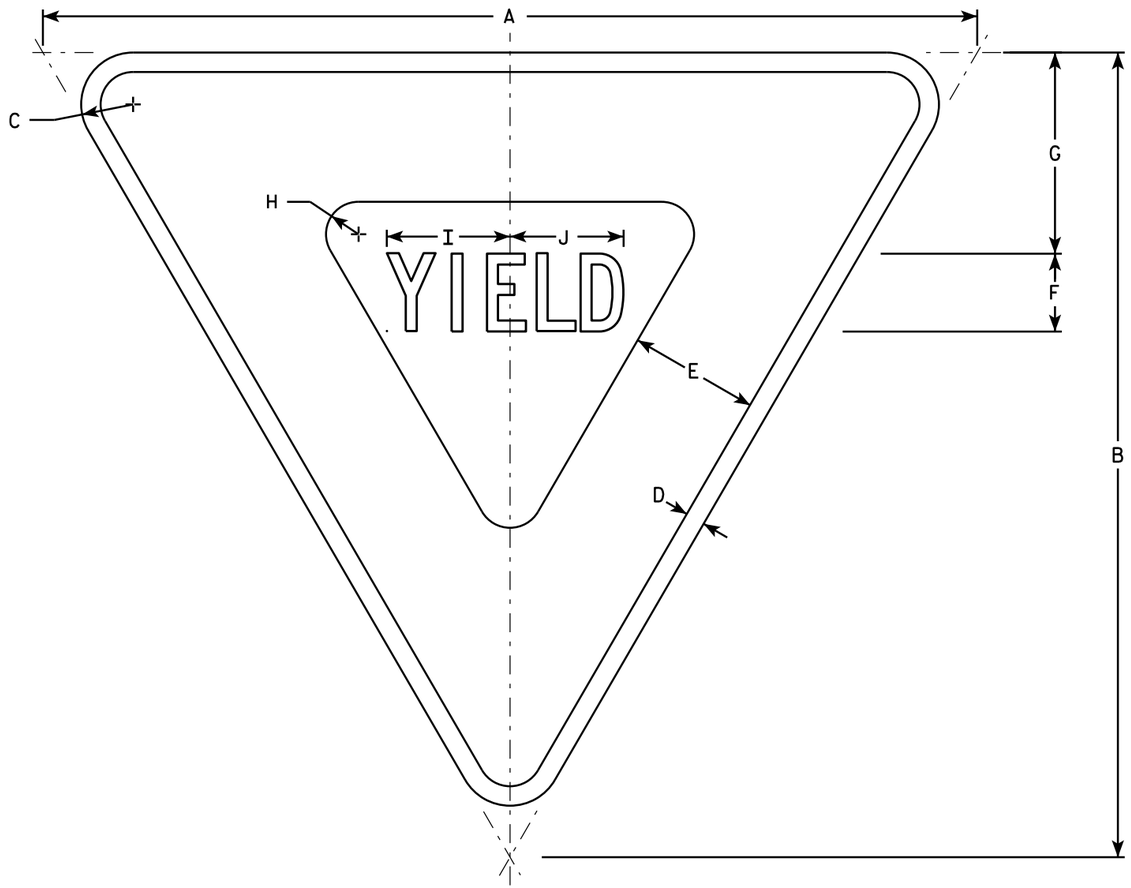
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 472	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

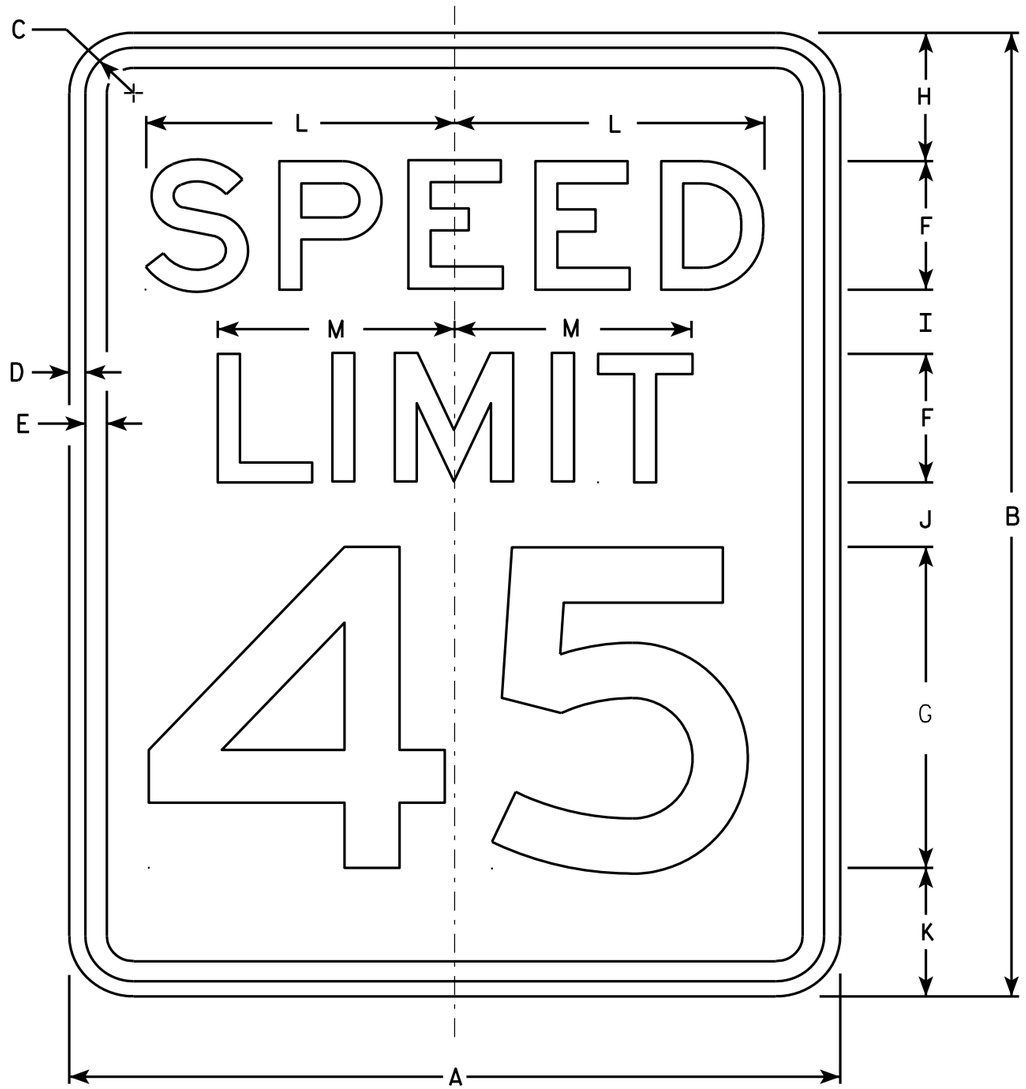
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE P1-2.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

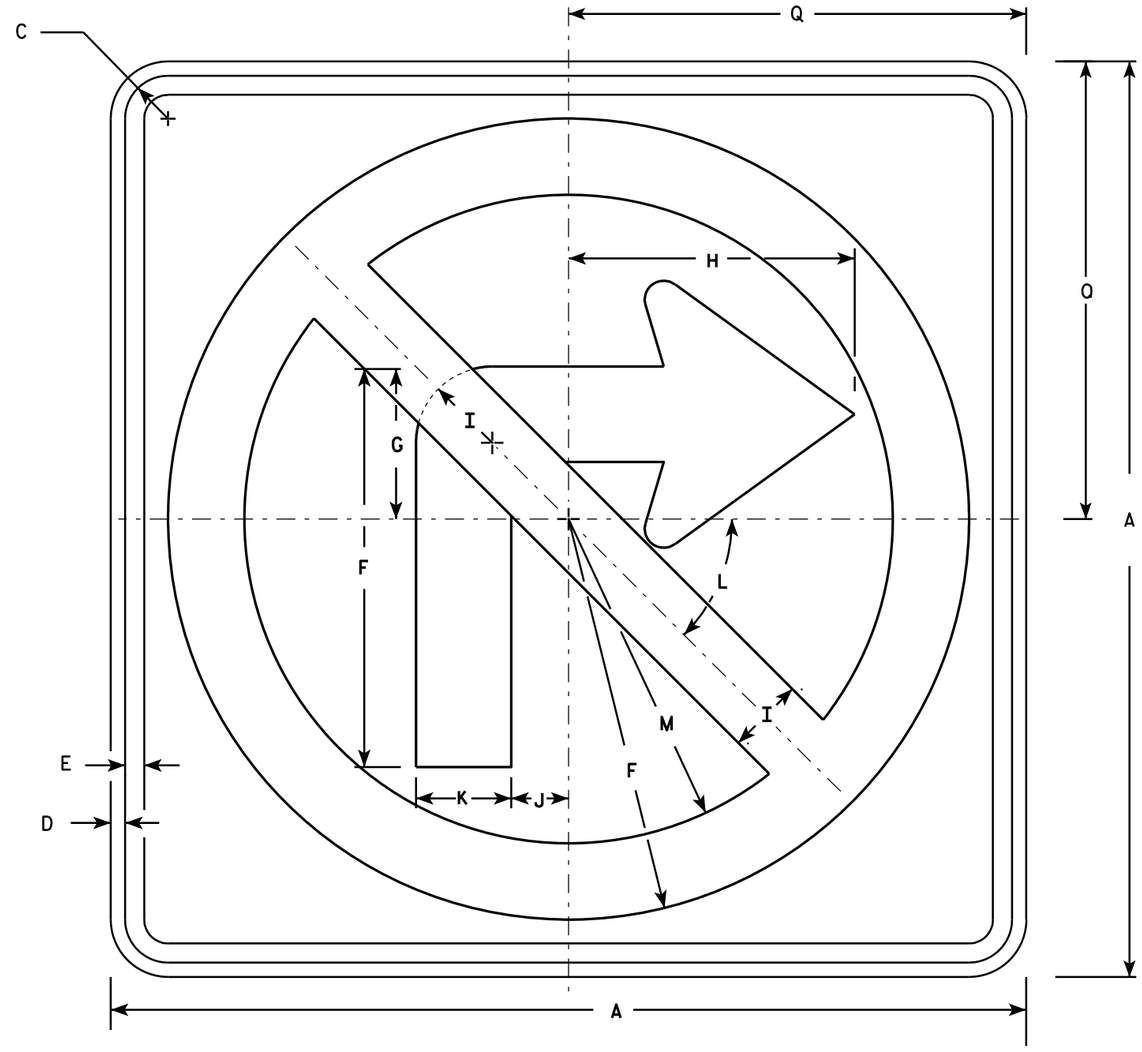
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 474 | 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

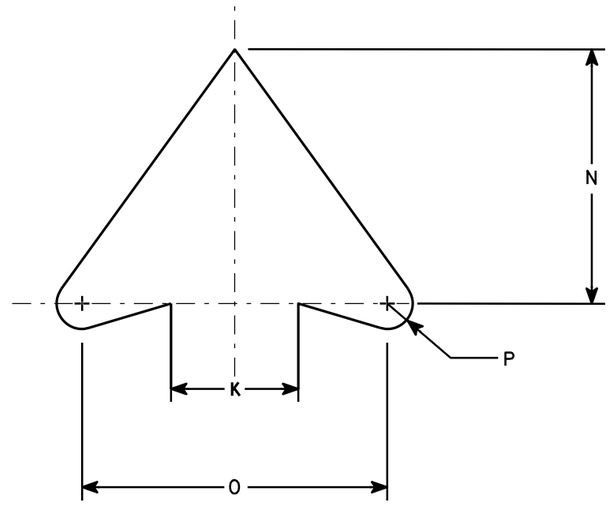
WISDOT/CADDS SHEET 42



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

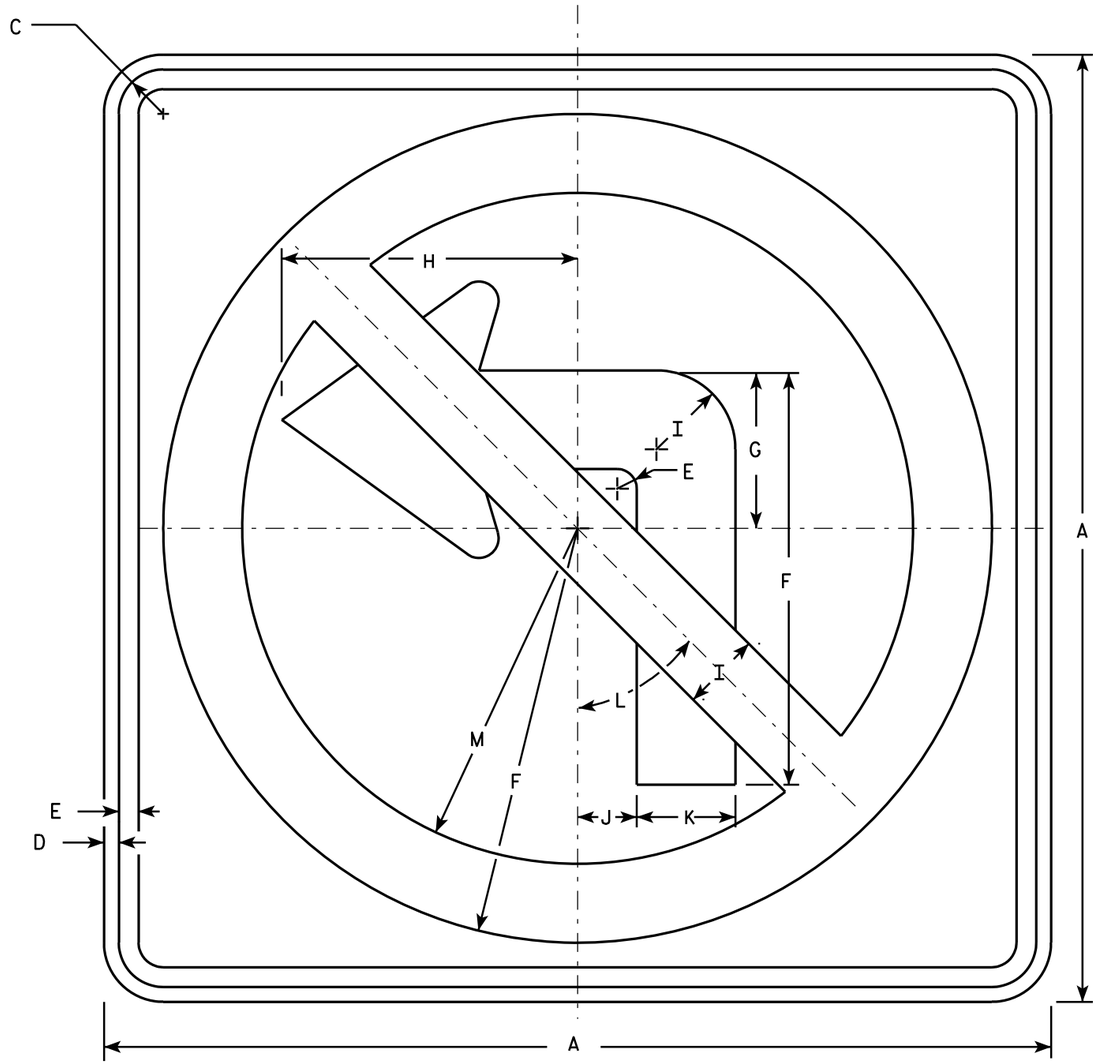
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

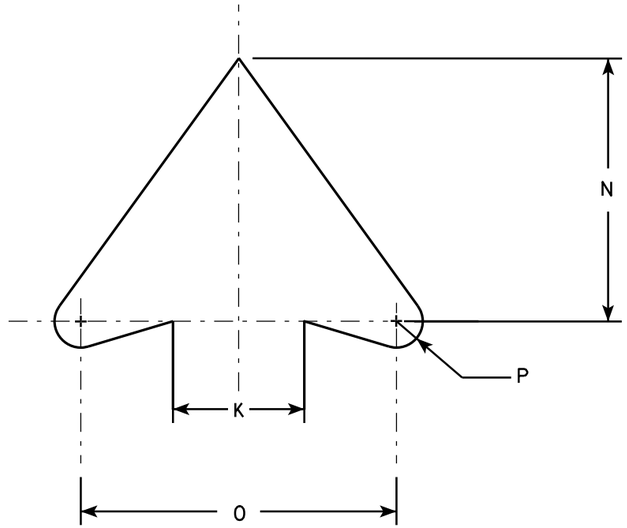
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 475	E



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

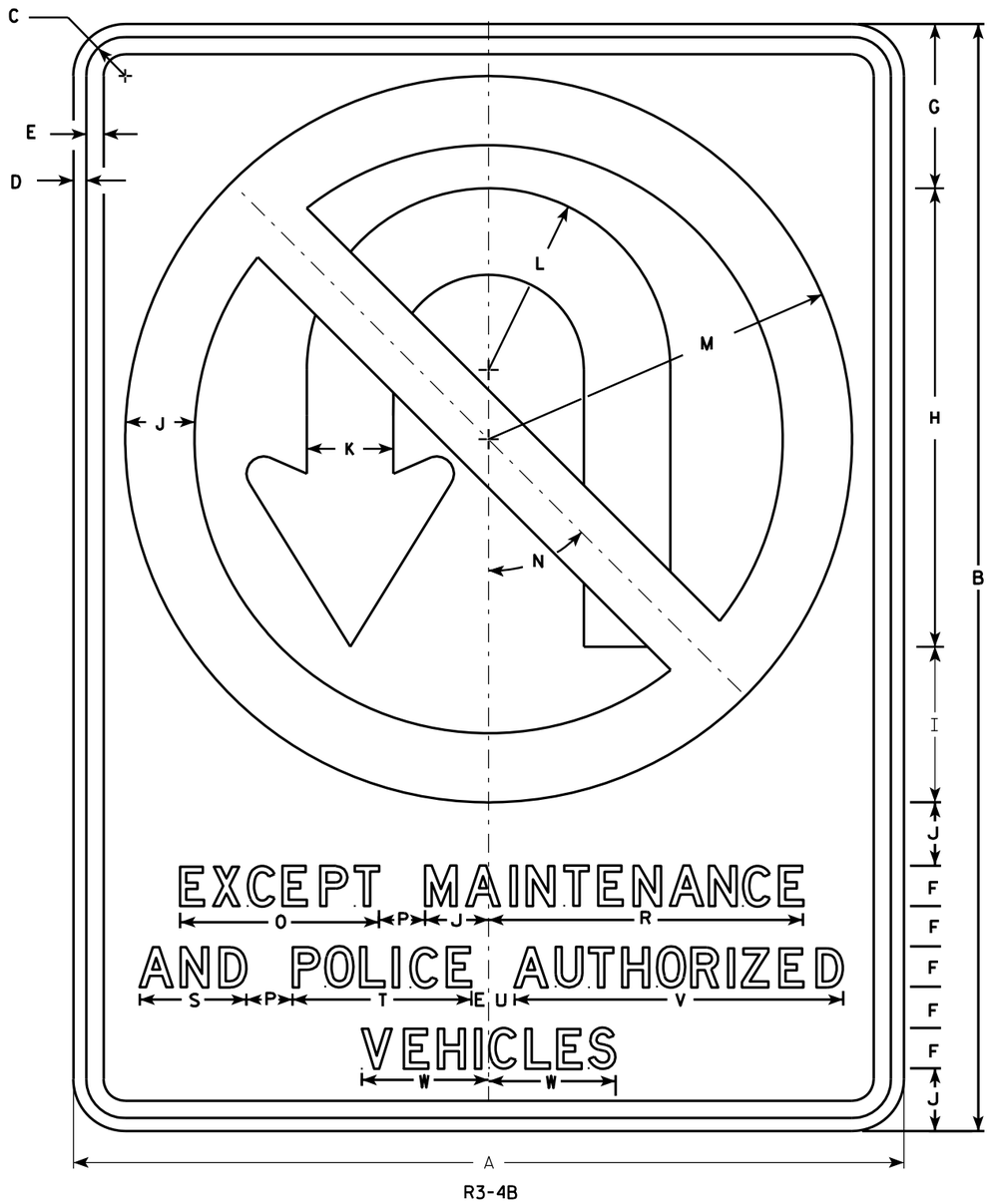
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

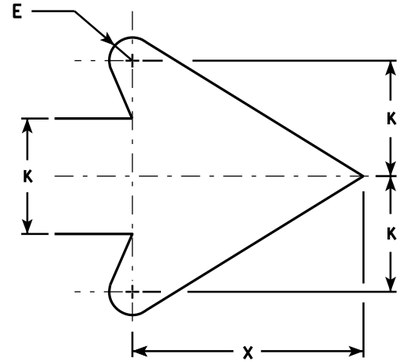
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 476	E



R3-4B

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																											
2S																											
2M																											
3																											
4	36	48	1 5/8	5/8	3/4	1 3/4	7 1/8	19 7/8	6 3/4	2 3/4	3 3/4	7 7/8	15 3/4	45°	8 5/8	2		13 5/8	4 5/8	7 3/4	1 1/8	14 1/4	5 1/2	7 5/8			12.0
5	36	48	1 5/8	5/8	3/4	1 3/4	7 1/8	19 7/8	6 3/4	2 3/4	3 3/4	7 7/8	15 3/4	45°	8 5/8	2		13 5/8	4 5/8	7 3/4	1 1/8	14 1/4	5 1/2	7 5/8			12.0

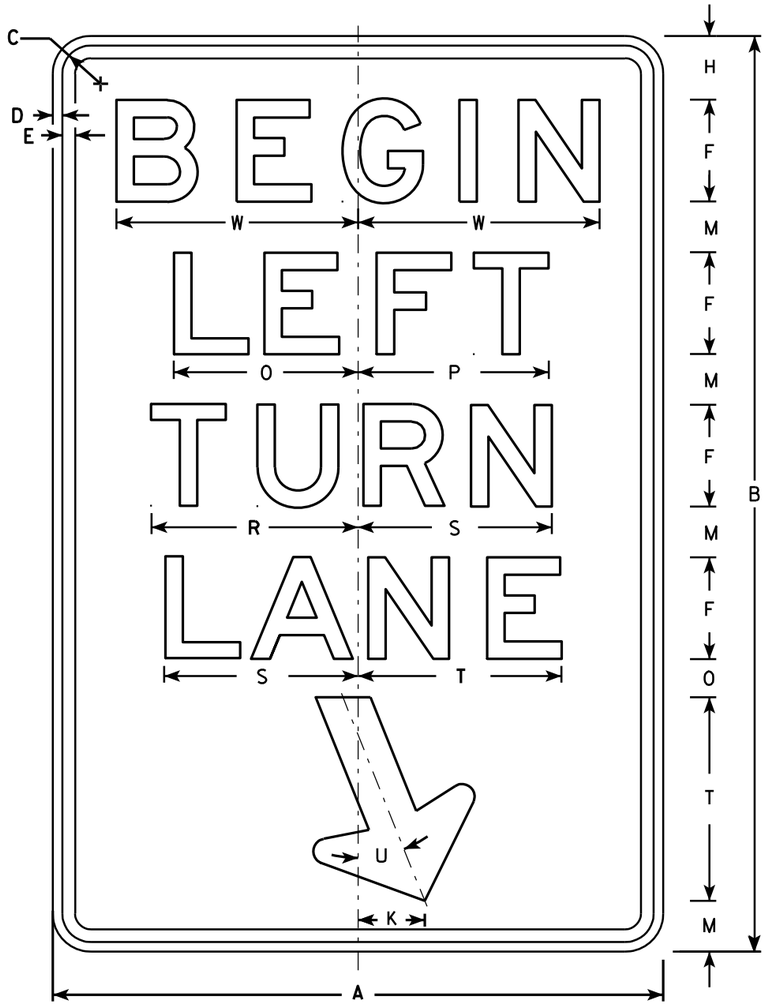
STANDARD SIGN
R3-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/17/2011 PLATE NO. R3-4B.2

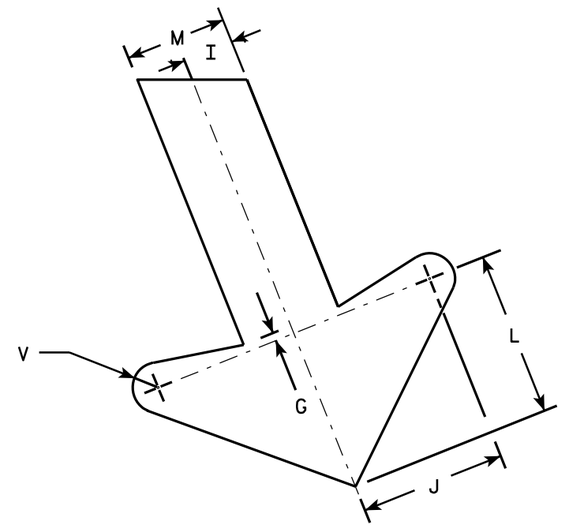
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 477	E



R3-20L

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.



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	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

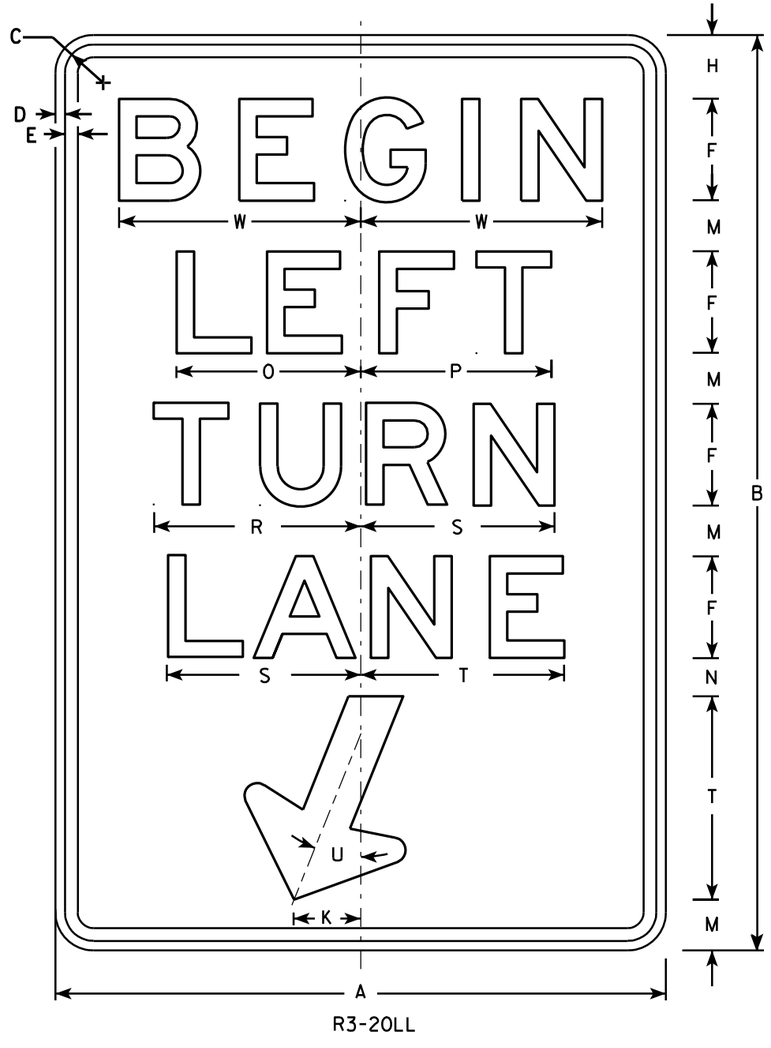
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

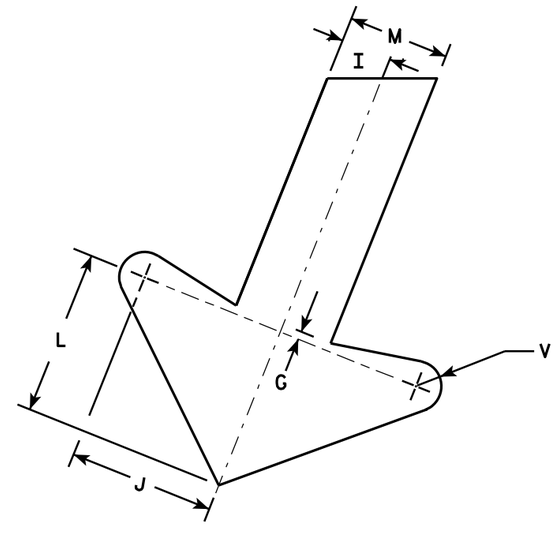
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 478 | E



R3-20LL

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.



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	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

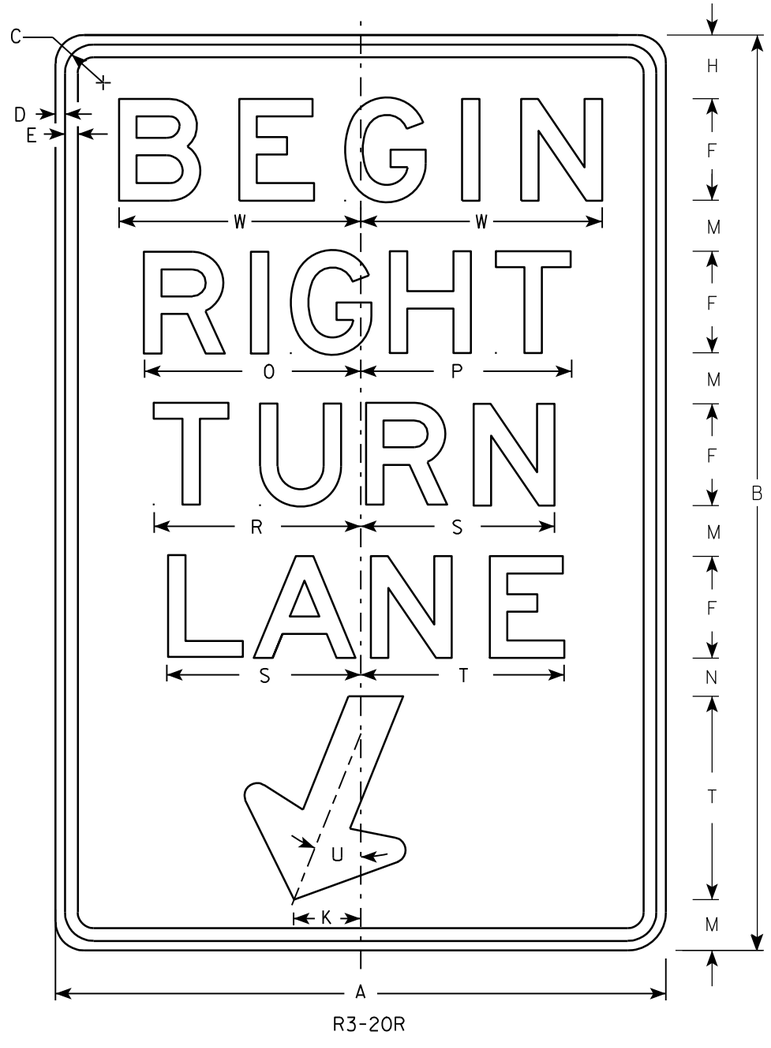
STANDARD SIGN
R3-20LL

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20LL.1

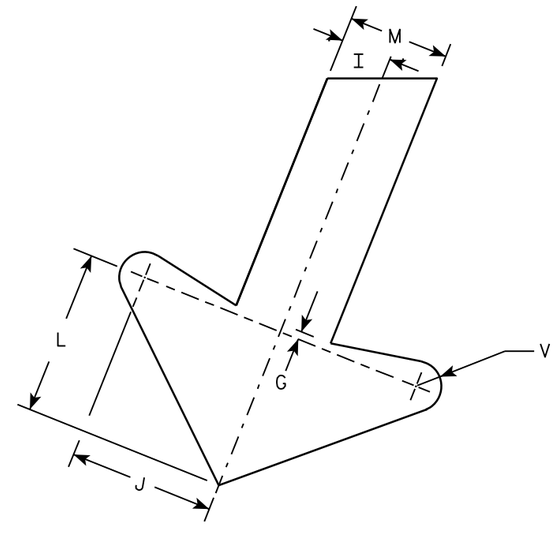
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 479	E



R3-20R

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.



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	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

STANDARD SIGN
R3-20R

WISCONSIN DEPT OF TRANSPORTATION

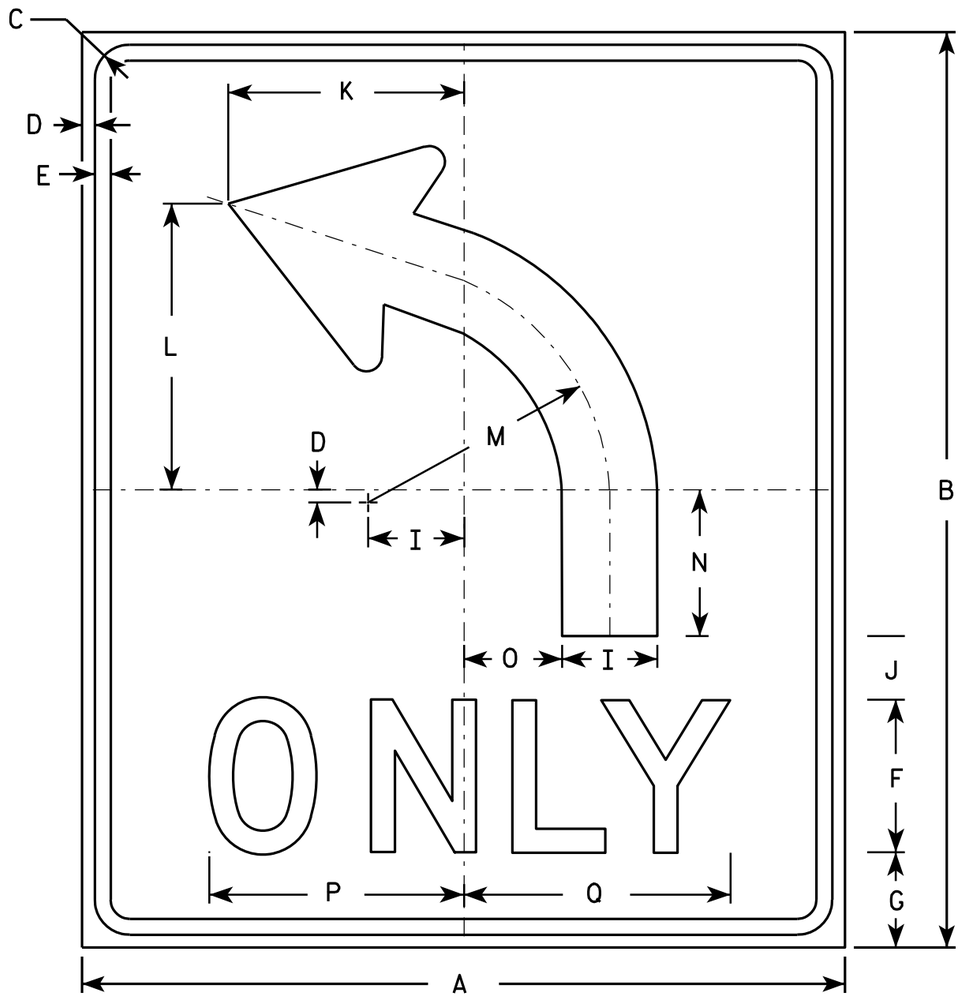
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20R.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 480 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R320R.DGN PLOT DATE : 15-OCT-2010 14:59 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

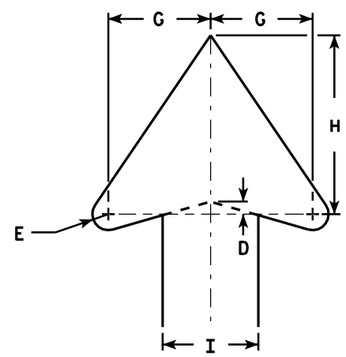
WISDOT/CADDS SHEET 42



R3-50L

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. R3-50R is the same as R3-50L except curved portion of arrow points right.



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	30	36	1 3/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 7/8	10	10 1/2										7.5
2M	30	36	1 3/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 7/8	10	10 1/2										7.5
3																											
4																											
5																											

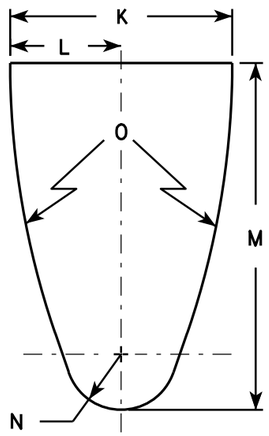
STANDARD SIGN
R3-50

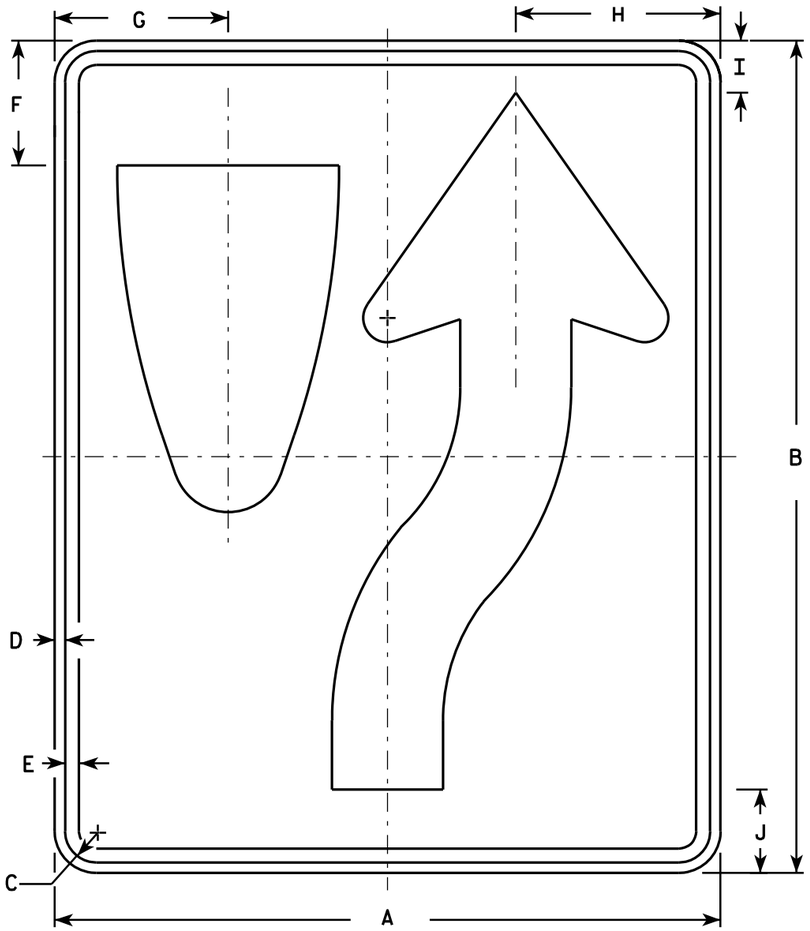
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-50.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 481 | E

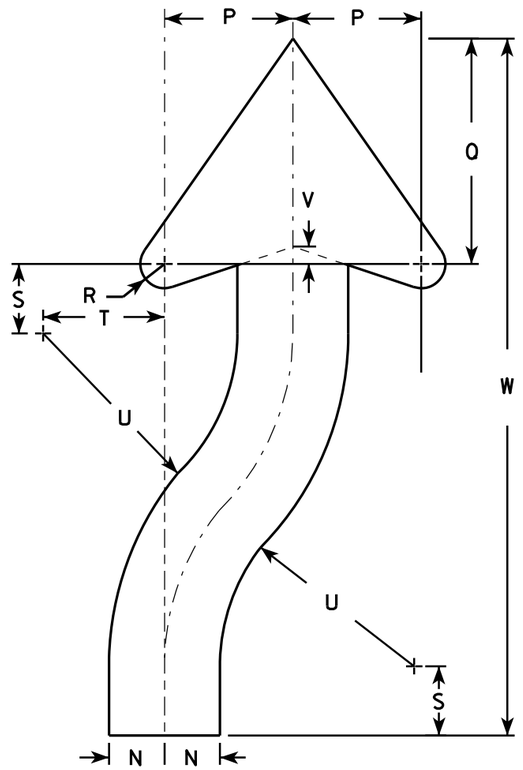




R4-7

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

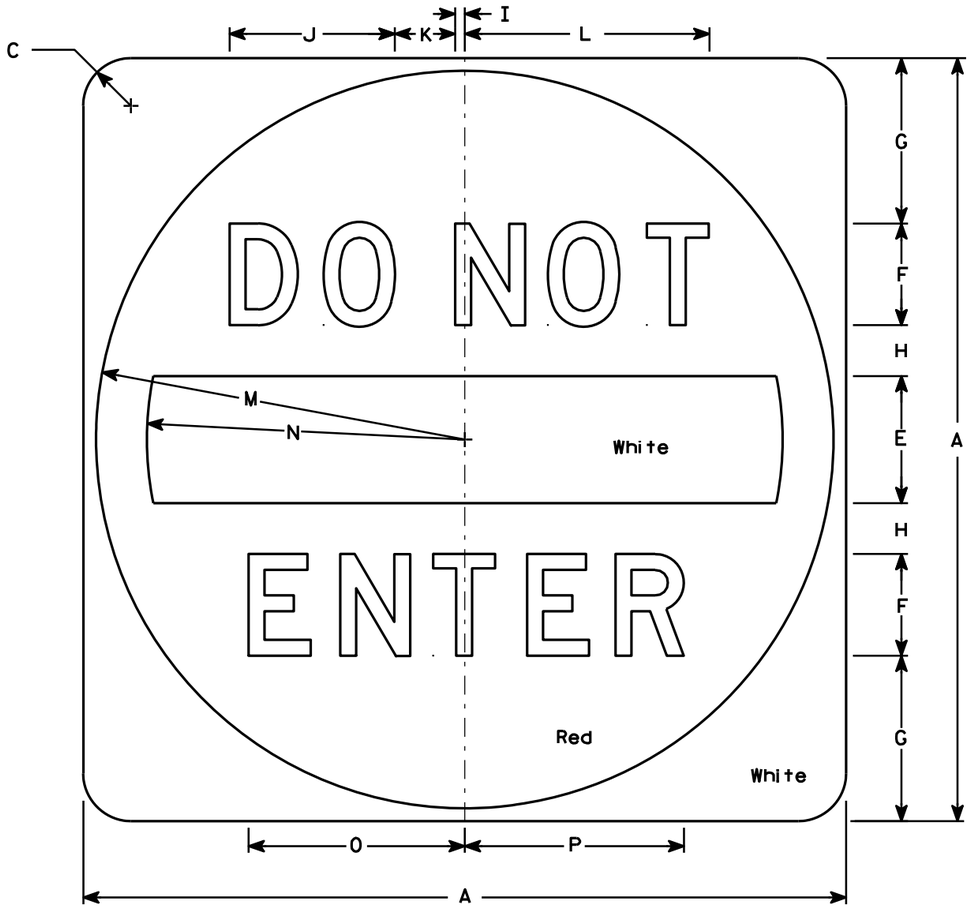
STANDARD SIGN
R4-7 & R4-8

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: 482	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

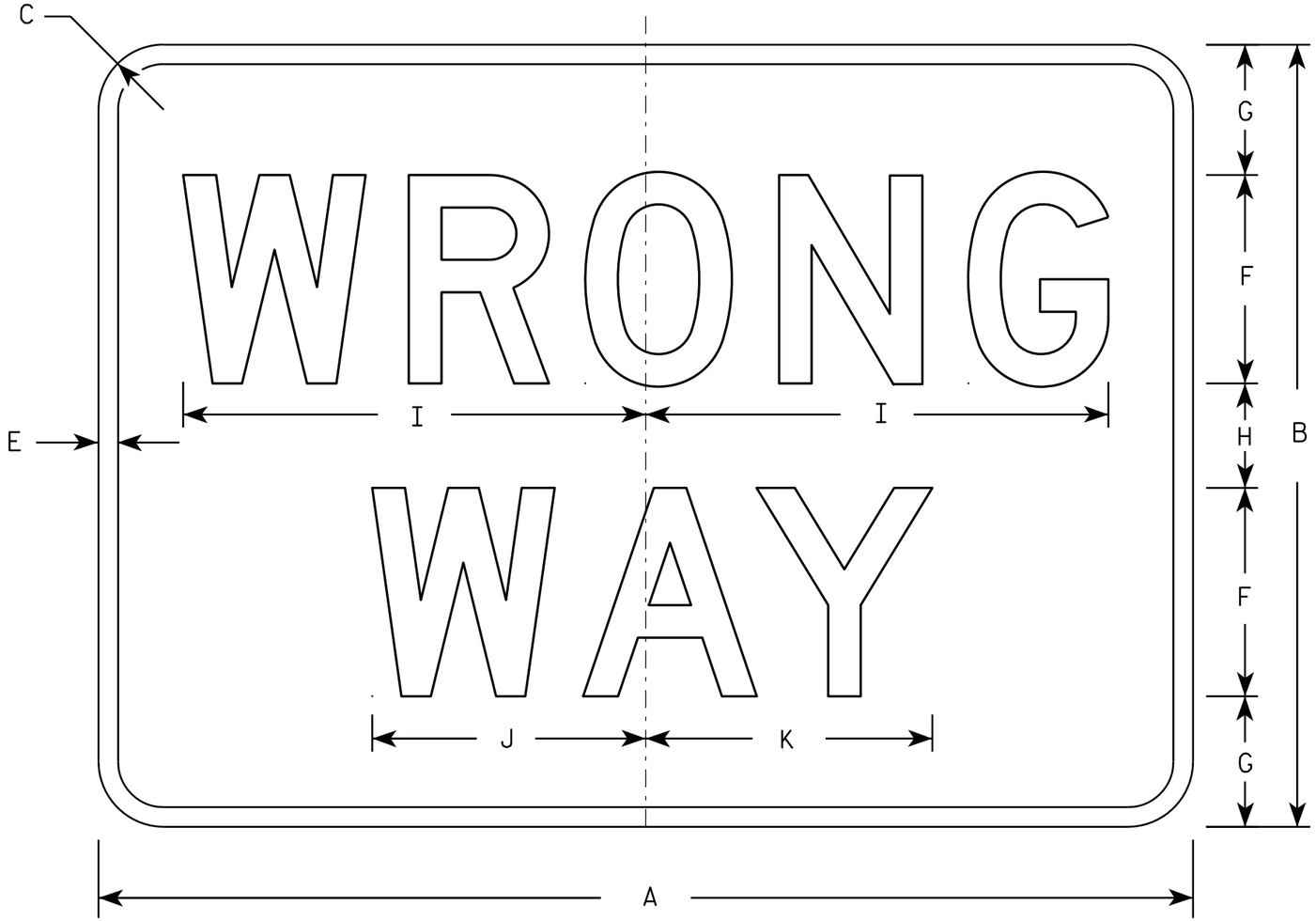
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 483 | E



R5-1A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

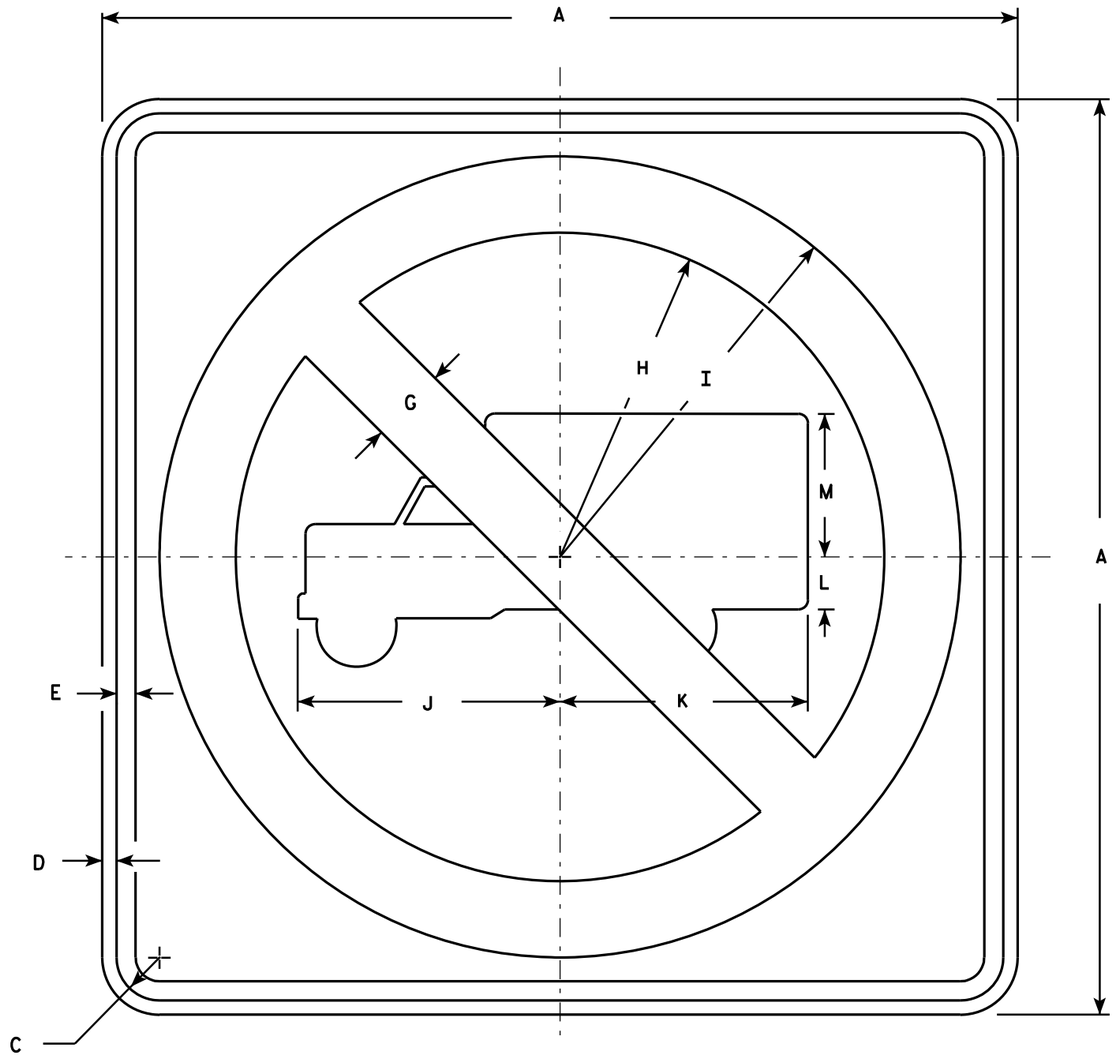
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 484 | E



R5-2

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. Circle & Diagonal - Reflective red.
   Truck Symbol & Border - Non-reflective black.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
2M	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
3	30		1 3/8	1/2	5/8		2 1/2	10 5/8	13 1/8	8 1/2	8 1/8	1 5/8	4 3/4														6.25
4	36		1 5/8	5/8	3/4		3	12 3/4	15 3/4	10 1/4	9 3/4	2	5 3/4														9.0
5	48		2 1/4	3/4	1		4	17	21	13 5/8	13	2 5/8	7 5/8														16.0

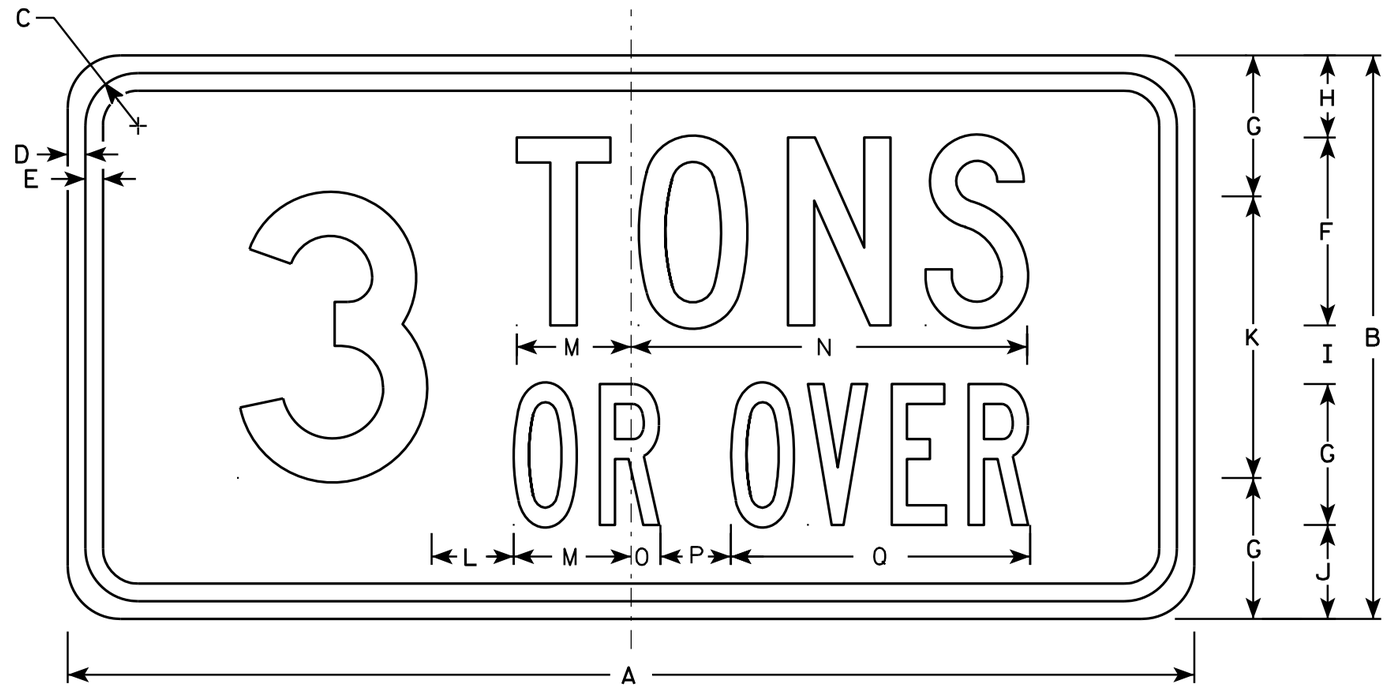
STANDARD SIGN
R5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-2.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 485	E



R5-2A

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 - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series "C"
   Line 2 is Series "B"
   Numeral is Series "D"
6. Substitute appropriate numerals.

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 1/8	3/8	3/8	4	3	1 3/4	1 1/4	2	6	1 3/4	2 1/2	8 1/2	5/8	1 1/2	6 3/8										2.0
2M	24	12	1 1/8	3/8	3/8	4	3	1 3/4	1 1/4	2	6	1 3/4	2 1/2	8 1/2	5/8	1 1/2	6 3/8										2.0
3	30	15	1 1/8	3/8	1/2	5	4	2 1/8	1 3/8	2 1/2	7	2 1/4	3 1/8	10 1/2	1	2 3/8	8 1/2										2.25
4	36	18	1 1/8	3/8	1/2	6	5	2 5/8	1 3/8	3	9	2 1/2	3 3/4	12 5/8	1 3/8	3 1/8	10 1/2										4.5
5	48	24	1 3/8	3/8	5/8	8	6	3 1/2	2 1/2	4	12	3 1/2	4 7/8	16 7/8	1 1/4	3	12 3/4										8.0

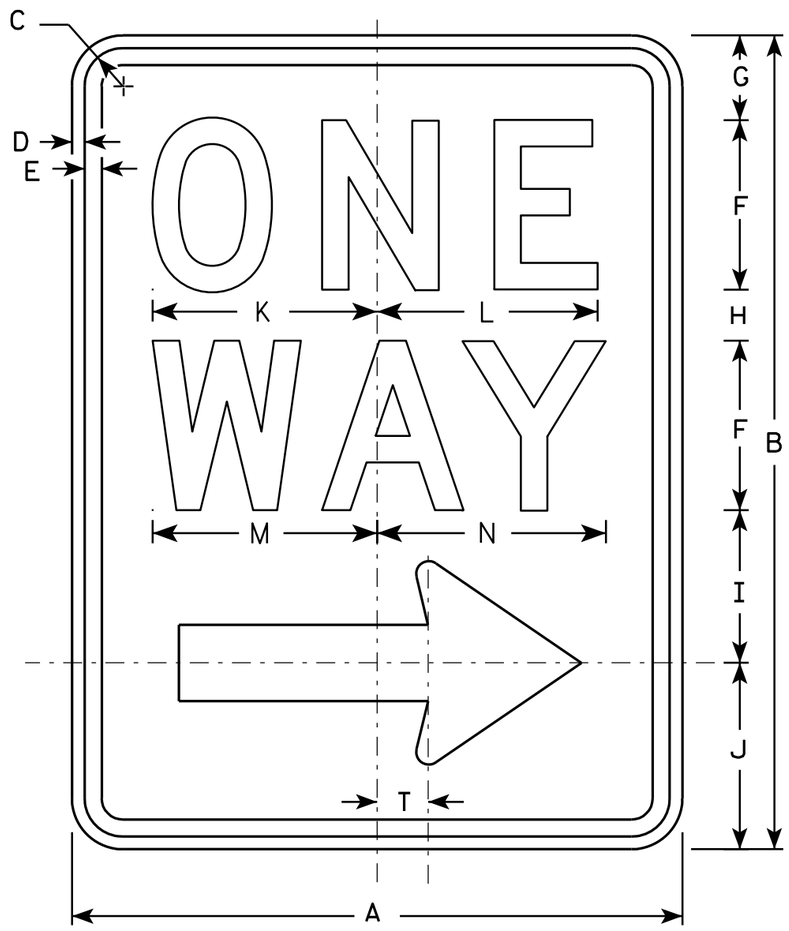
STANDARD SIGN
R5-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-2A.7

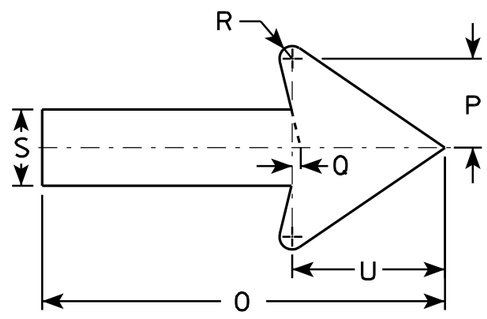
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 486 | E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

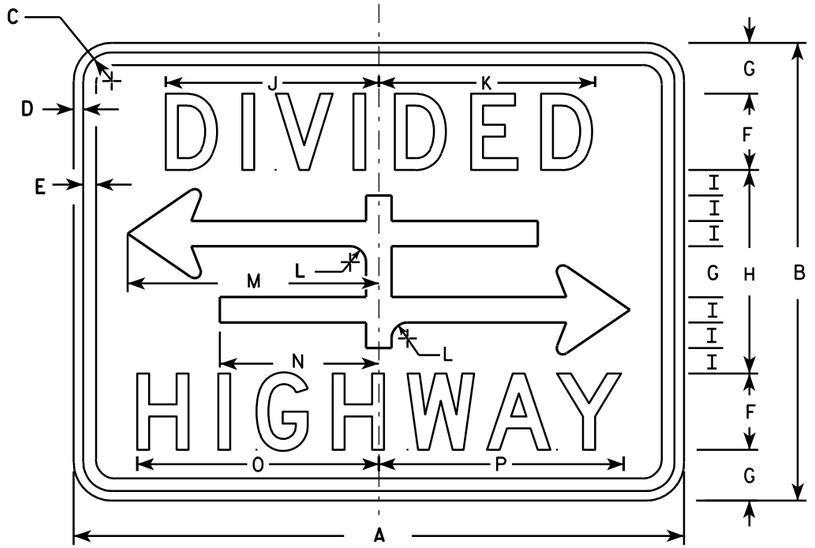
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

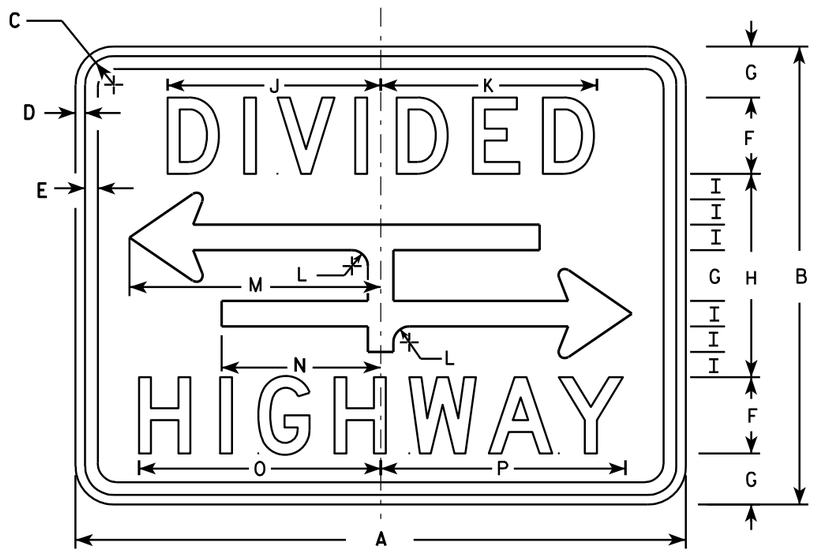
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 487	E



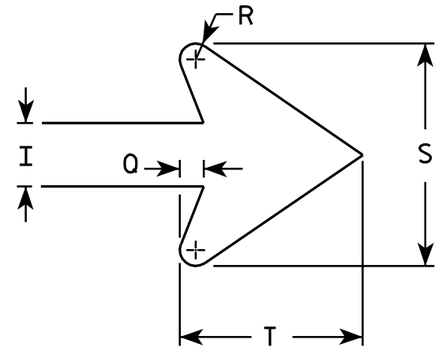
R6-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-3A



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	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN
R6-3 & R6-3A

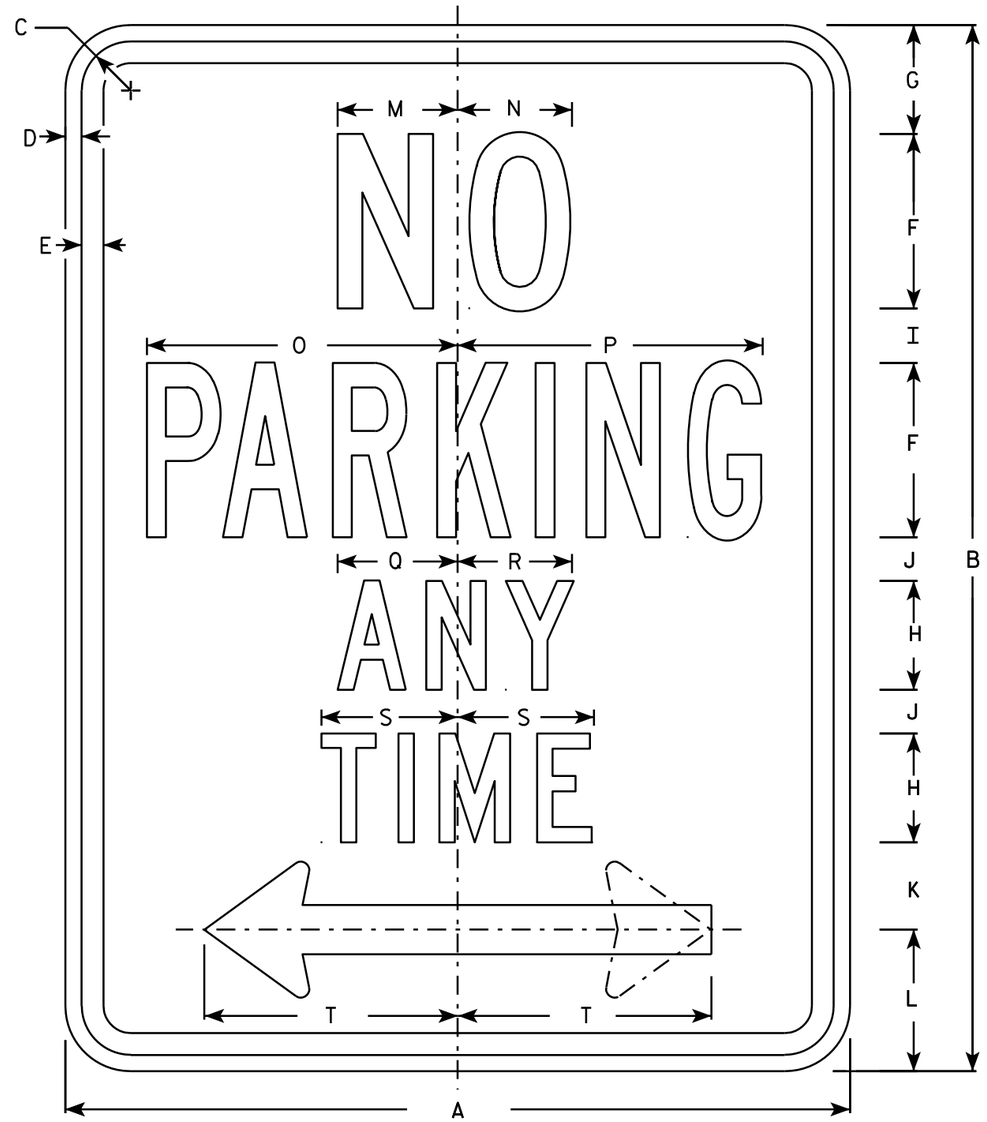
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

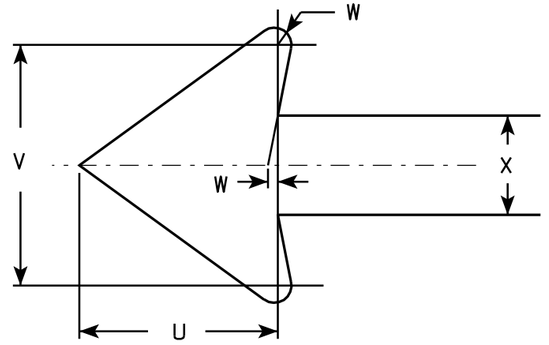
SHEET NO: 488 E



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																											

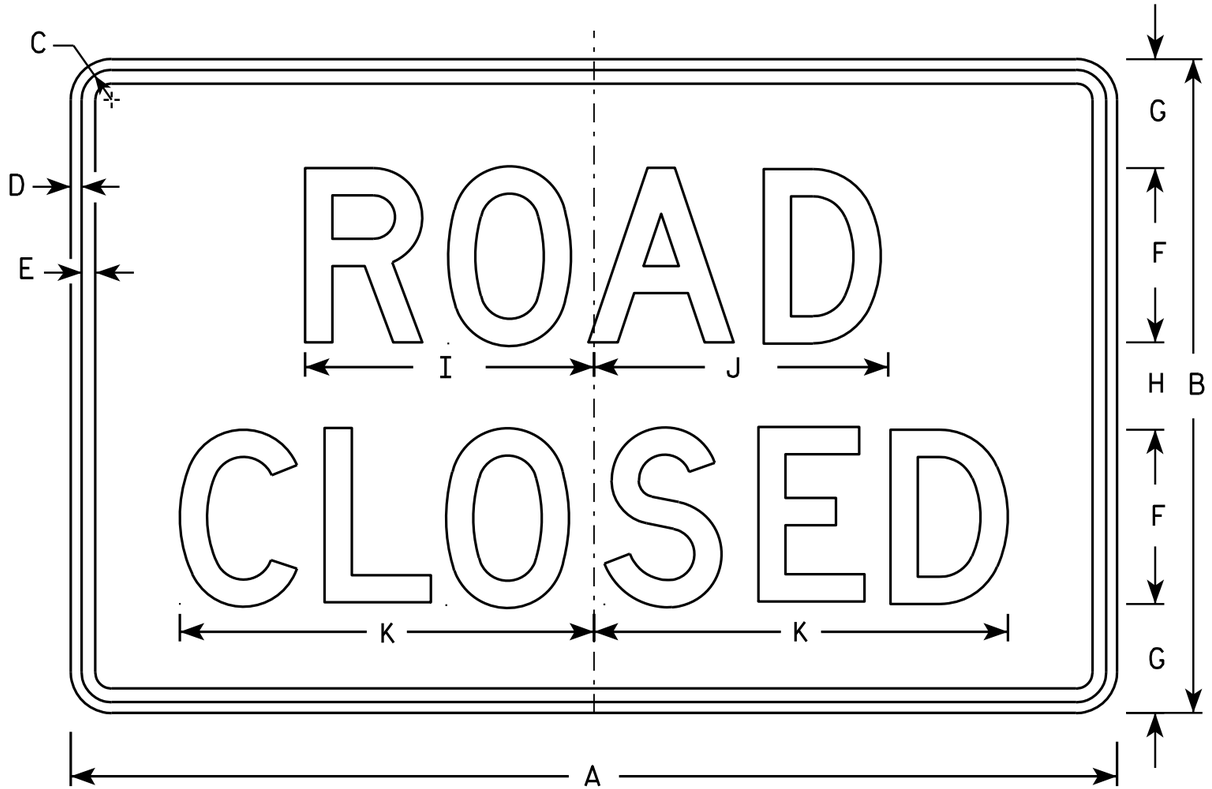
STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

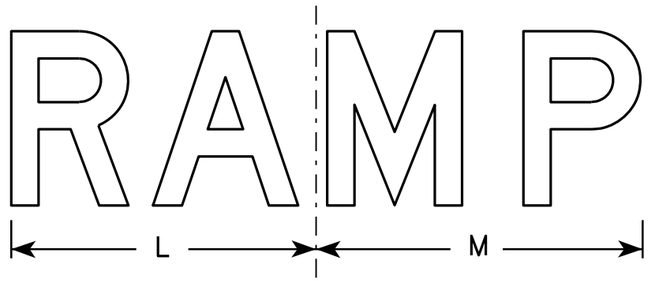
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 489	E



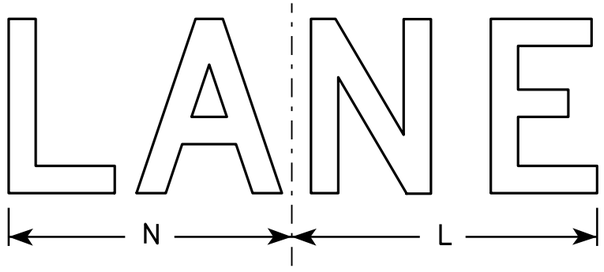
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

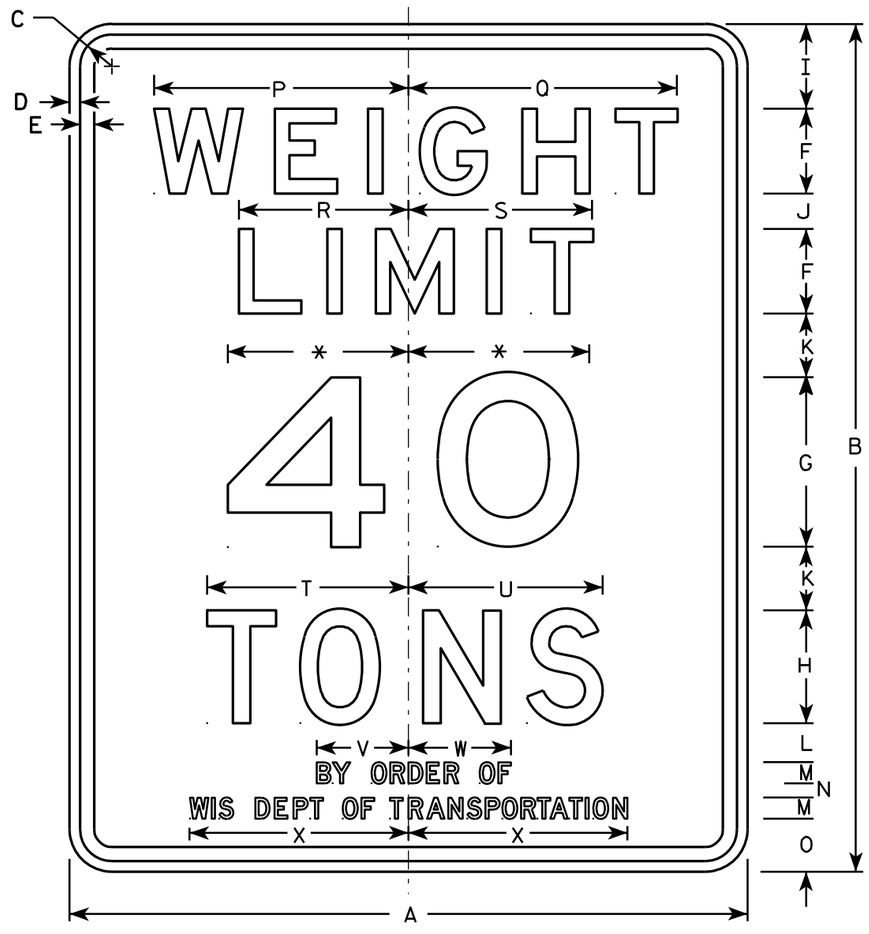
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 490	E



R12-1

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 - 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, 2 & 3 are series E
   Lines 4, 5, & 6 are series D.
6. Substitute appropriate numeral and optically adjust spacing to achieve proper balance.
7. Substitute name of county or town on County Trunk and Town Highways respectively. Community name on City or Village Streets including Connecting Highways is optional.

* Varies (see note 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	24	30	1 1/8	3/8	1/2	3	6	4	3	1 1/4	2 1/4	1 3/8	3/4	1/2	1 7/8	9	9 1/2	6	6 1/2	7 1/8	6 7/8	3 1/4	3 5/8	7 3/4			5.0
2S	24	30	1 1/8	3/8	1/2	3	6	4	3	1 1/4	2 1/4	1 3/8	3/4	1/2	1 7/8	9	9 1/2	6	6 1/2	7 1/8	6 7/8	3 1/4	3 5/8	7 3/4			5.0
2M	24	30	1 1/8	3/8	1/2	3	6	4	3	1 1/4	2 1/4	1 3/8	3/4	1/2	1 7/8	9	9 1/2	6	6 1/2	7 1/8	6 7/8	3 1/4	3 5/8	7 3/4			5.0
3	36	48	1 3/8	1/2	5/8	6	10	8	4 1/2	2 1/2	2 1/4	1 1/2	3/4	1/2	3	13 1/2	14 1/4	9	9 3/4	10 5/8	10 1/4	3 1/4	3 5/8	7 3/4			12.0
4	48	60	2 1/4	3/4	1	6	12	8	6	2 1/2	4 1/2	2 3/4	1 1/2	1	3 3/4	18	19	12	13	14 1/4	13 3/4	6 1/2	7 1/4	15 1/2			20.0
5																											

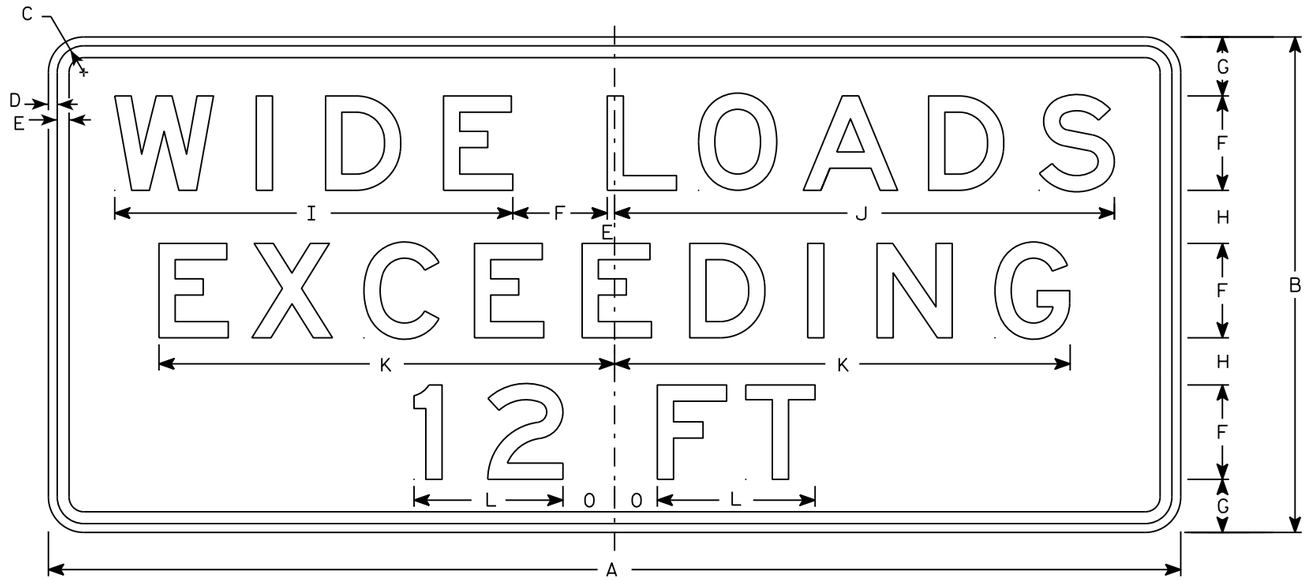
STANDARD SIGN
R12-1

WISCONSIN DEPT OF TRANSPORTATION

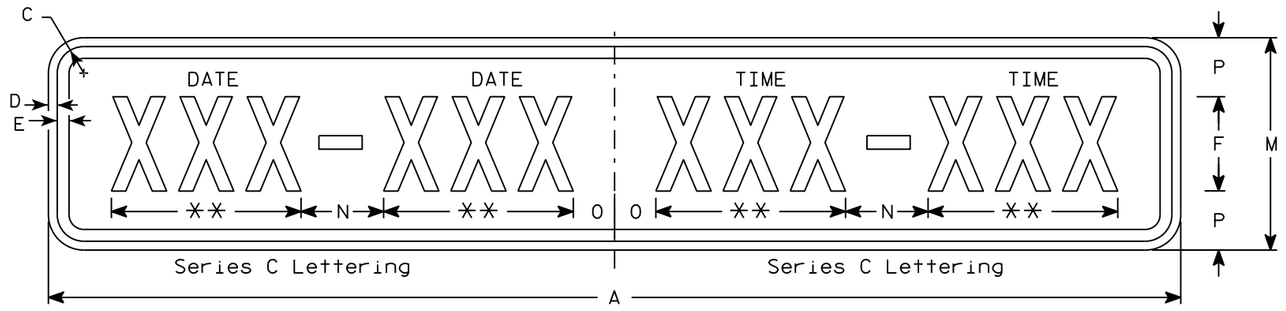
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R12-1.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 491 | E



R12-70



R12-70C

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 except as noted
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.

** Substitute appropriate message, optically center message

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	R12-70 Area sq. ft.	R12-70C Area sq. ft.
1																												
2S	66	36	2 1/4	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	6	3	3											16.5	5.5
2M	66	36	2 1/4	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	6	3	3											16.5	5.5
3																												
4	96	42	2 1/4	3/4	1	8	5	4	34	42	39	13	18	7	3 1/2	5											36.0	12.0
5	96	42	2 1/4	3/4	1	8	5	4	34	42	39	13	18	7	3 1/2	5											36.0	12.0

TYPICAL SIGN
R12-70

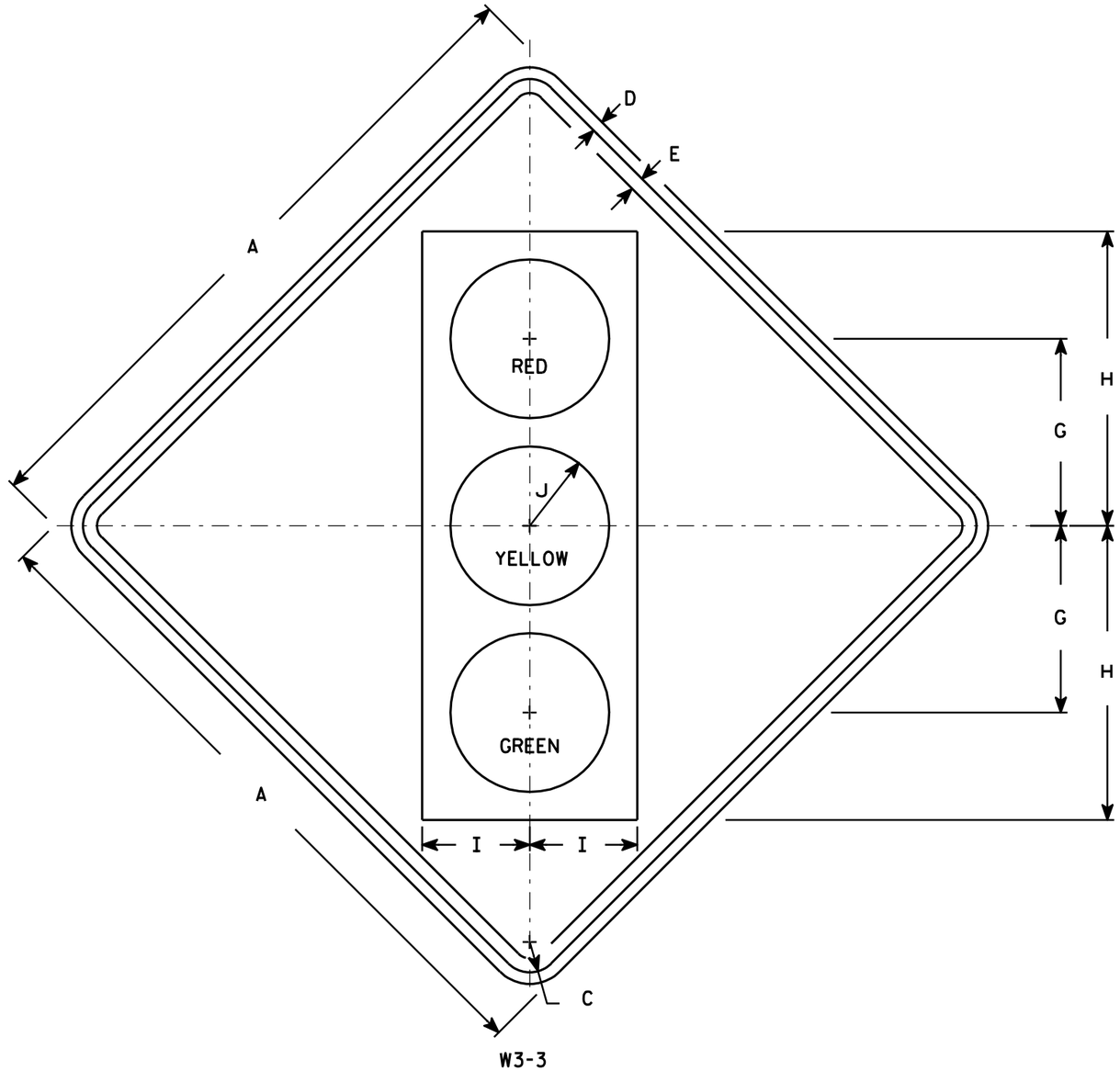
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/5/15 PLATE NO R12-70.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R1270.DGN PLOT DATE : 01-DEC-2015 18:09 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 12.842555:1.000000



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

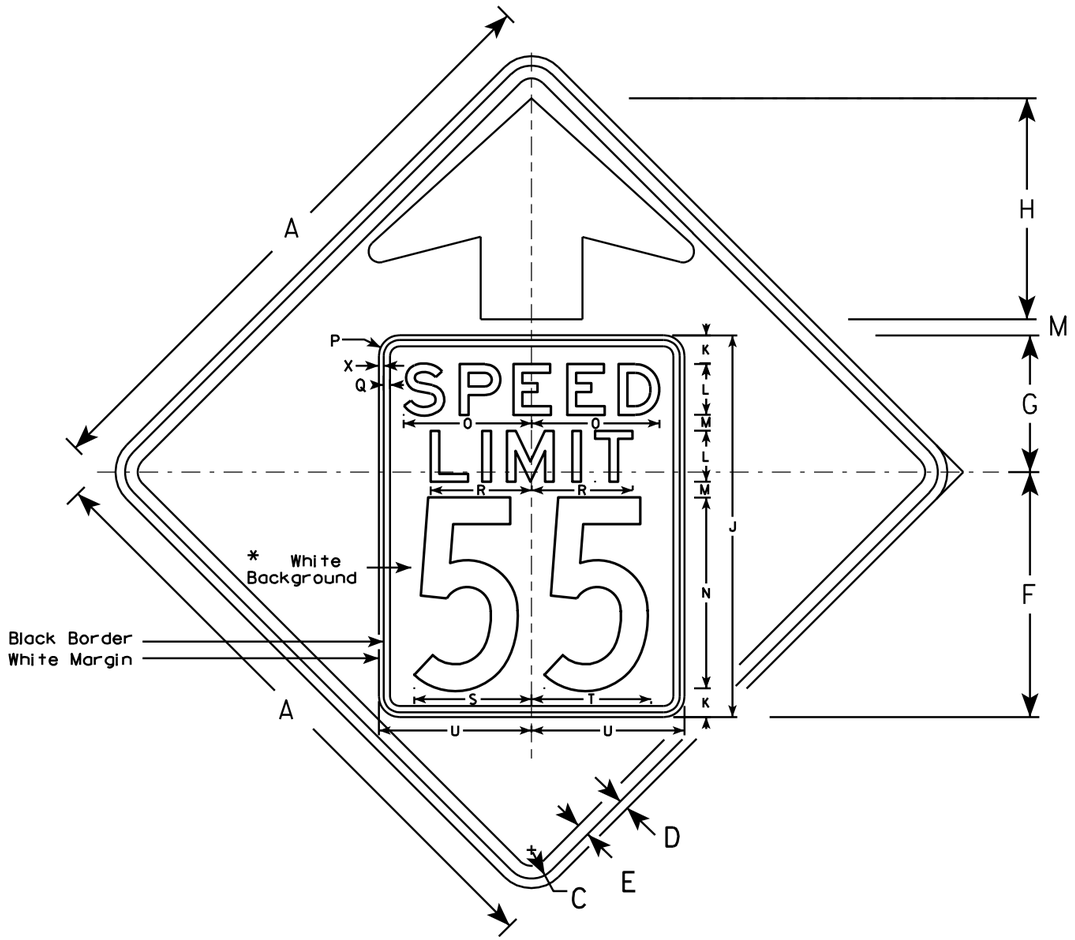
STANDARD SIGN
W3-3

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: 493 | E

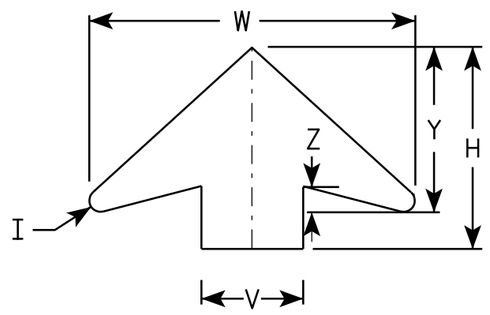


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

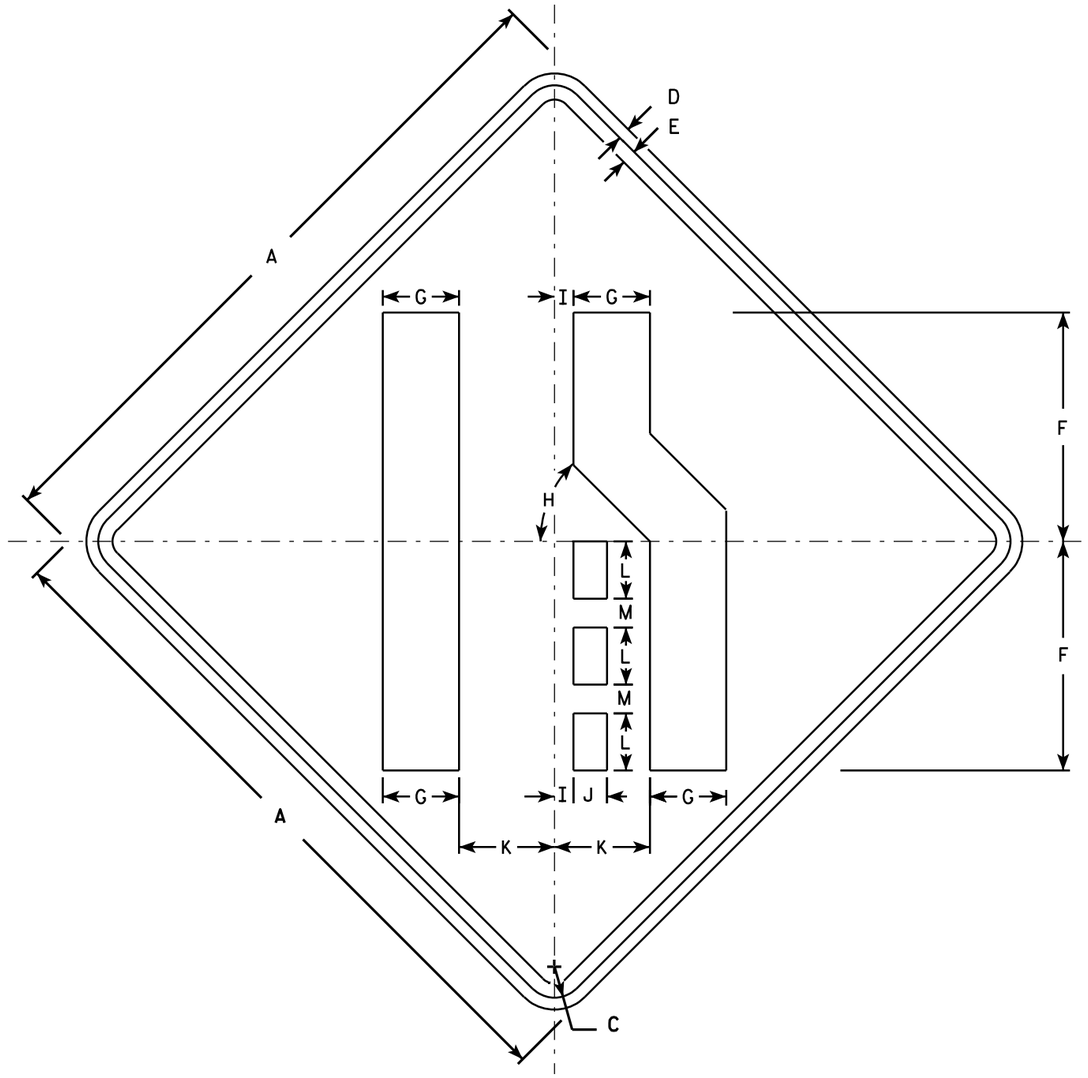
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 494 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

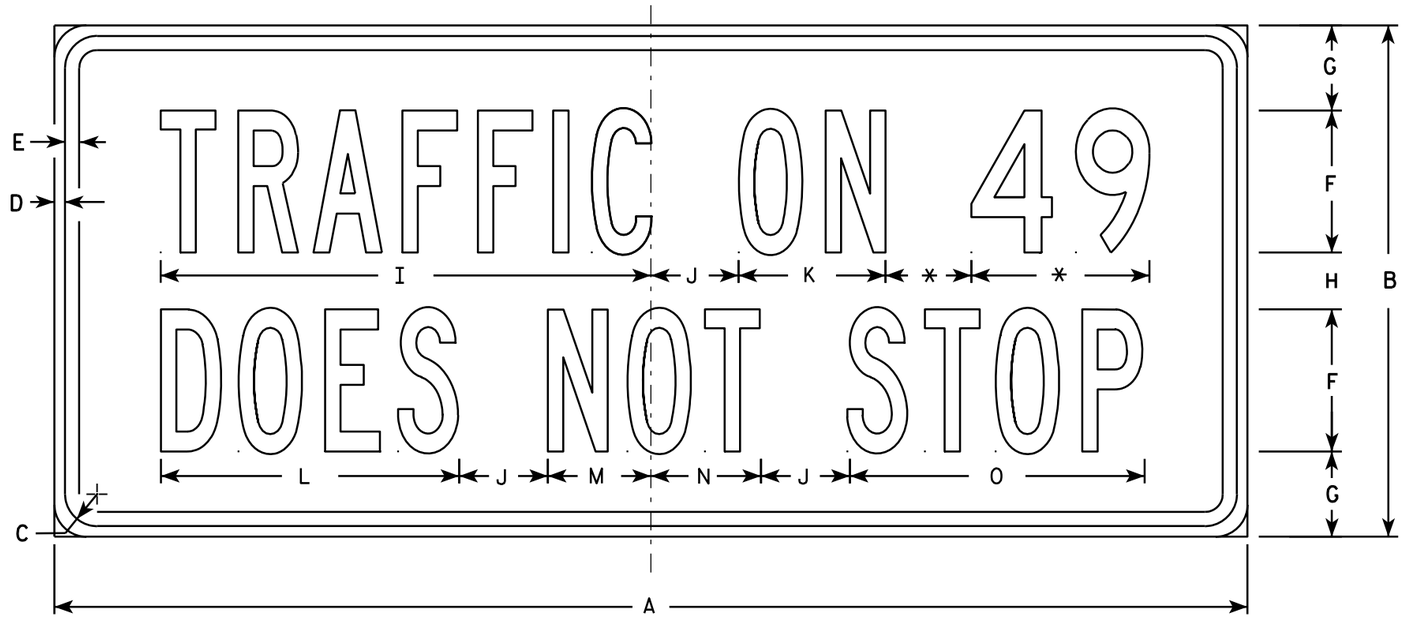
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 495 E



W4-4C

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - B (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. Highway Number usually Series D. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

* VARIES

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 1/8	3/8	3/8	3	2 1/4	1 1/2	10 3/8	1 1/2	3 1/8	6 1/4	2 1/4	2 1/4	6 1/4												2.0
2M	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	10 3/8	1 1/2	3 1/8	6 1/4	2 1/4	2 1/4	6 1/4												2.0
3	36	15	1 1/8	3/8	1/2	4	2 5/8	1 3/4	13 7/8	2 3/8	4 1/4	8 3/8	3 1/8	3 1/8	8 3/8												3.75
4	42	18	1 1/8	3/8	1/2	5	3	2	17 1/4	3 1/8	5 1/8	10 1/2	3 7/8	3 7/8	10 3/8												5.25
5																											

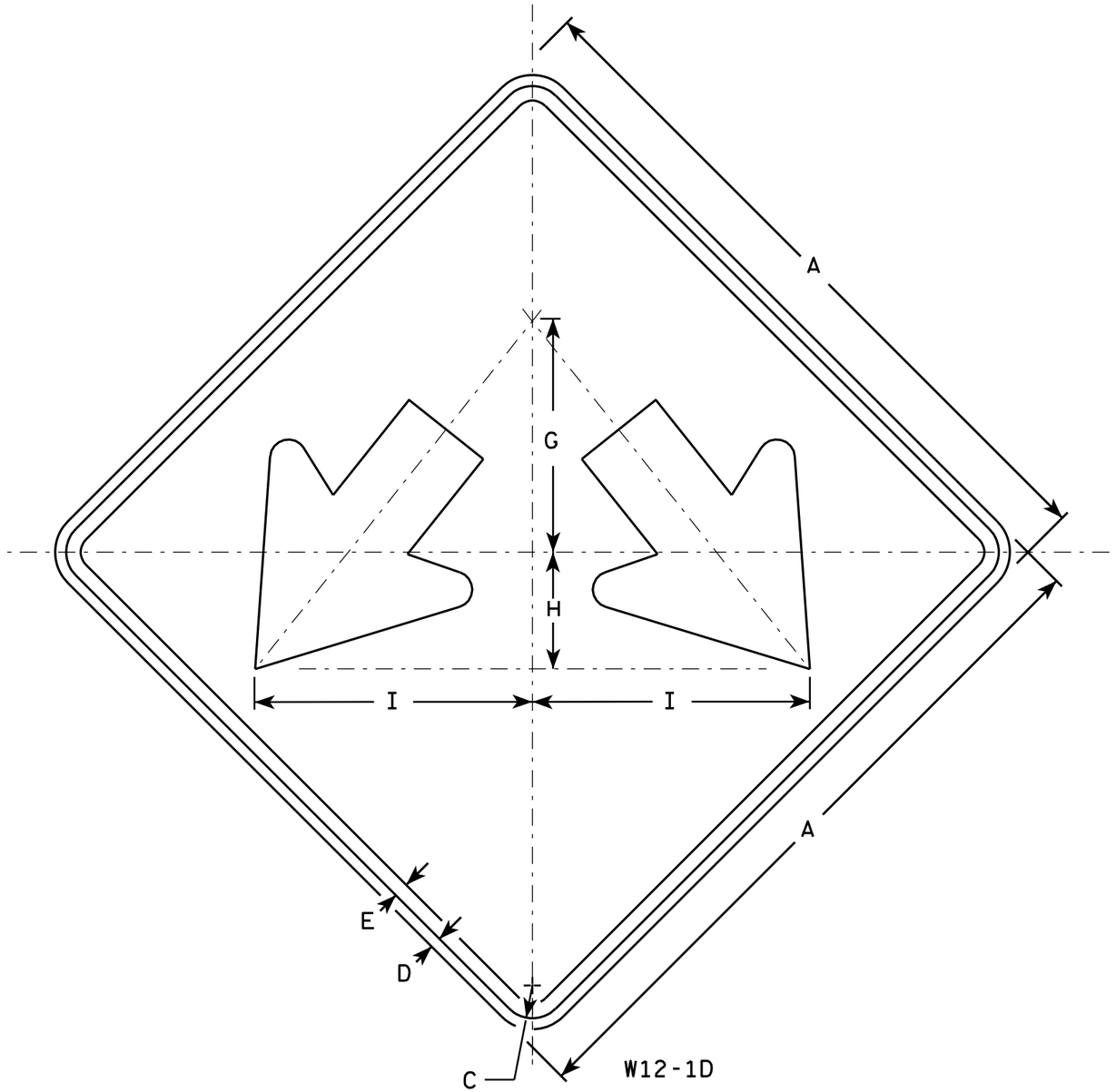
STANDARD SIGN
W4-4C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

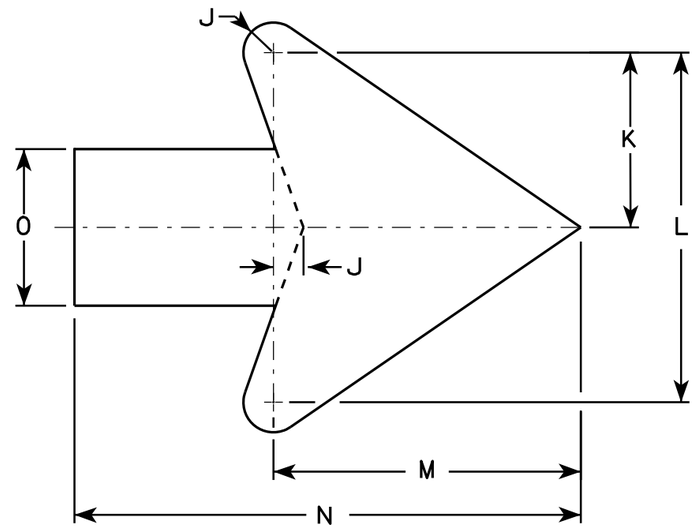
DATE 03/12/13 PLATE NO. W4-4.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 496	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

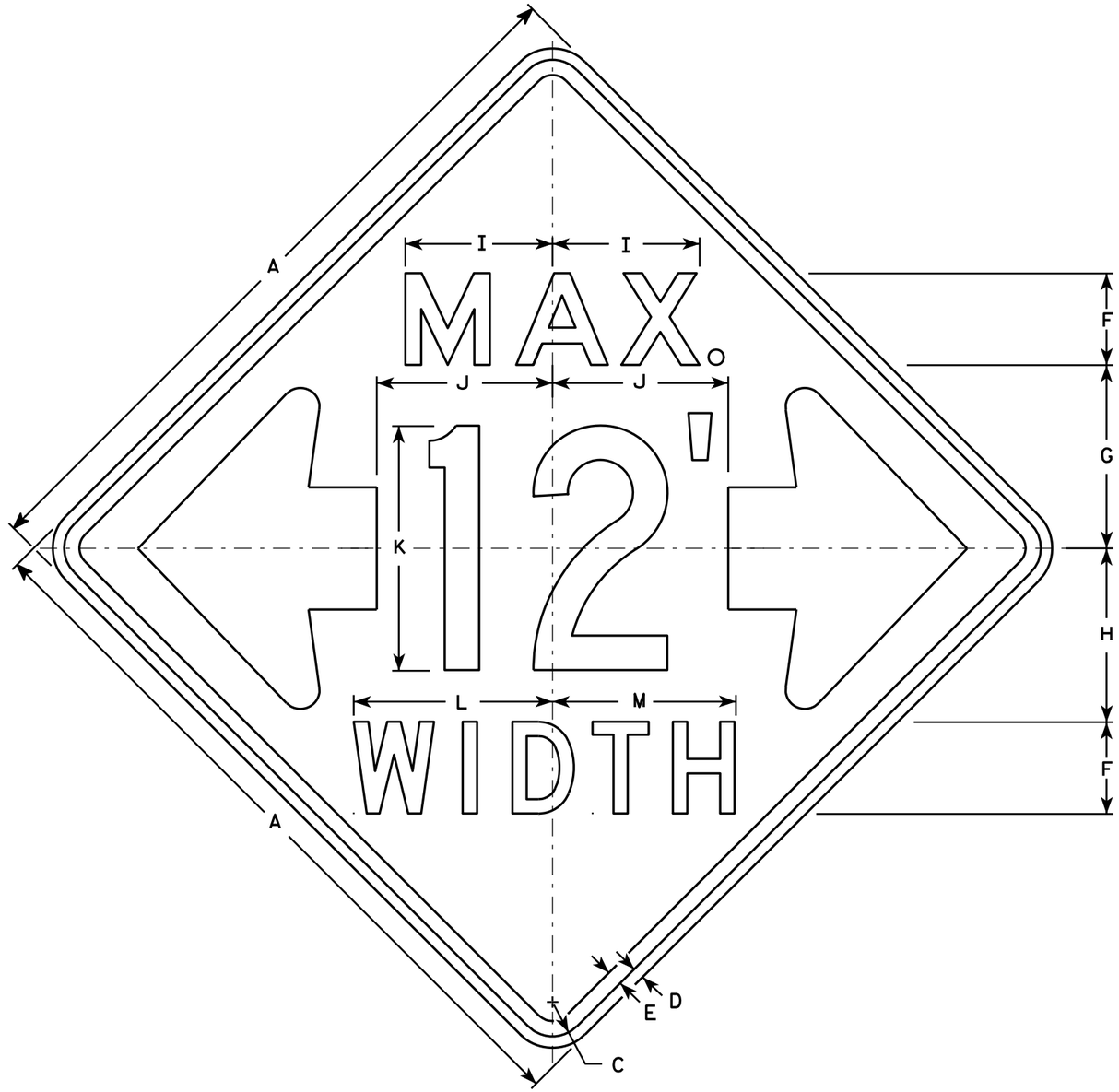
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

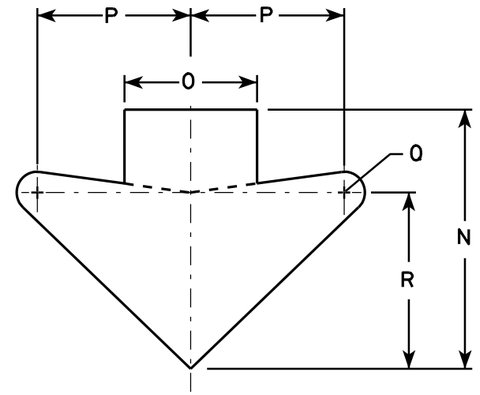
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 497	E



W12-52

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. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



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	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

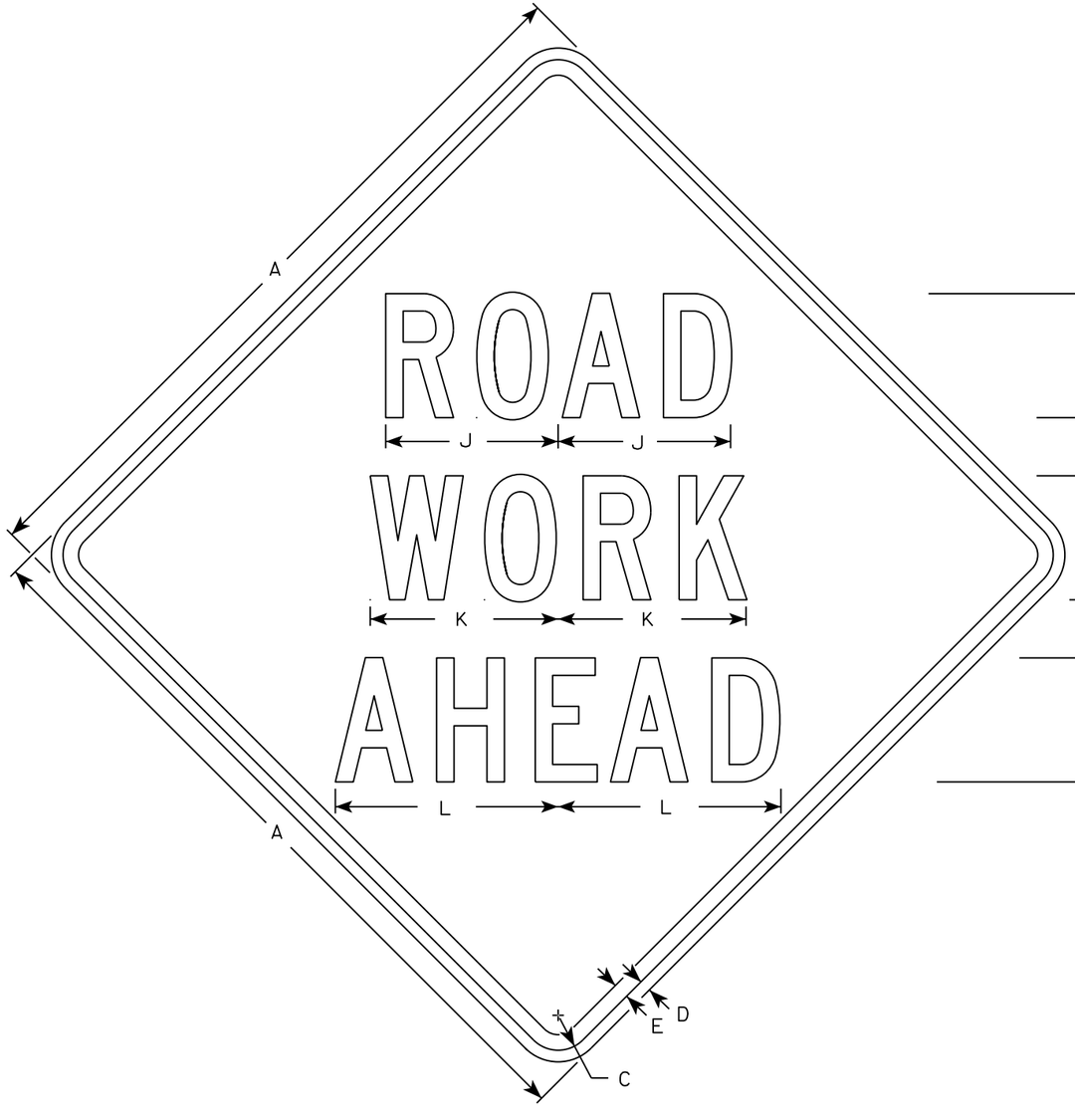
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

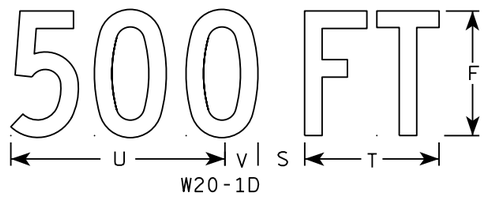
DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 498 | E

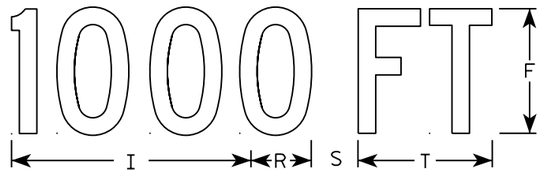
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42



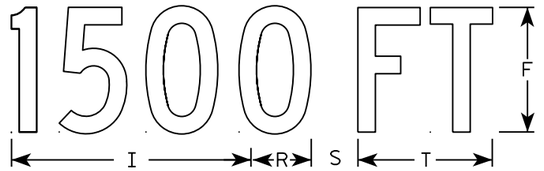
W20-1A



W20-1D

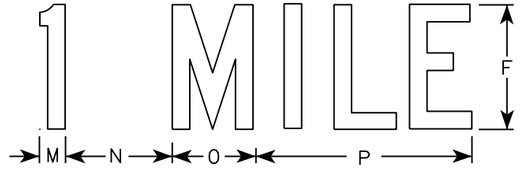


W20-1C

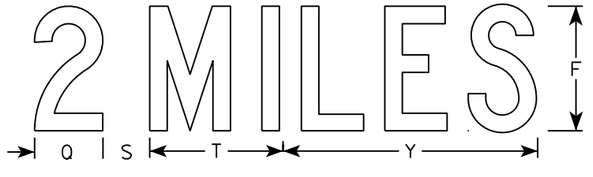


W20-1B

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

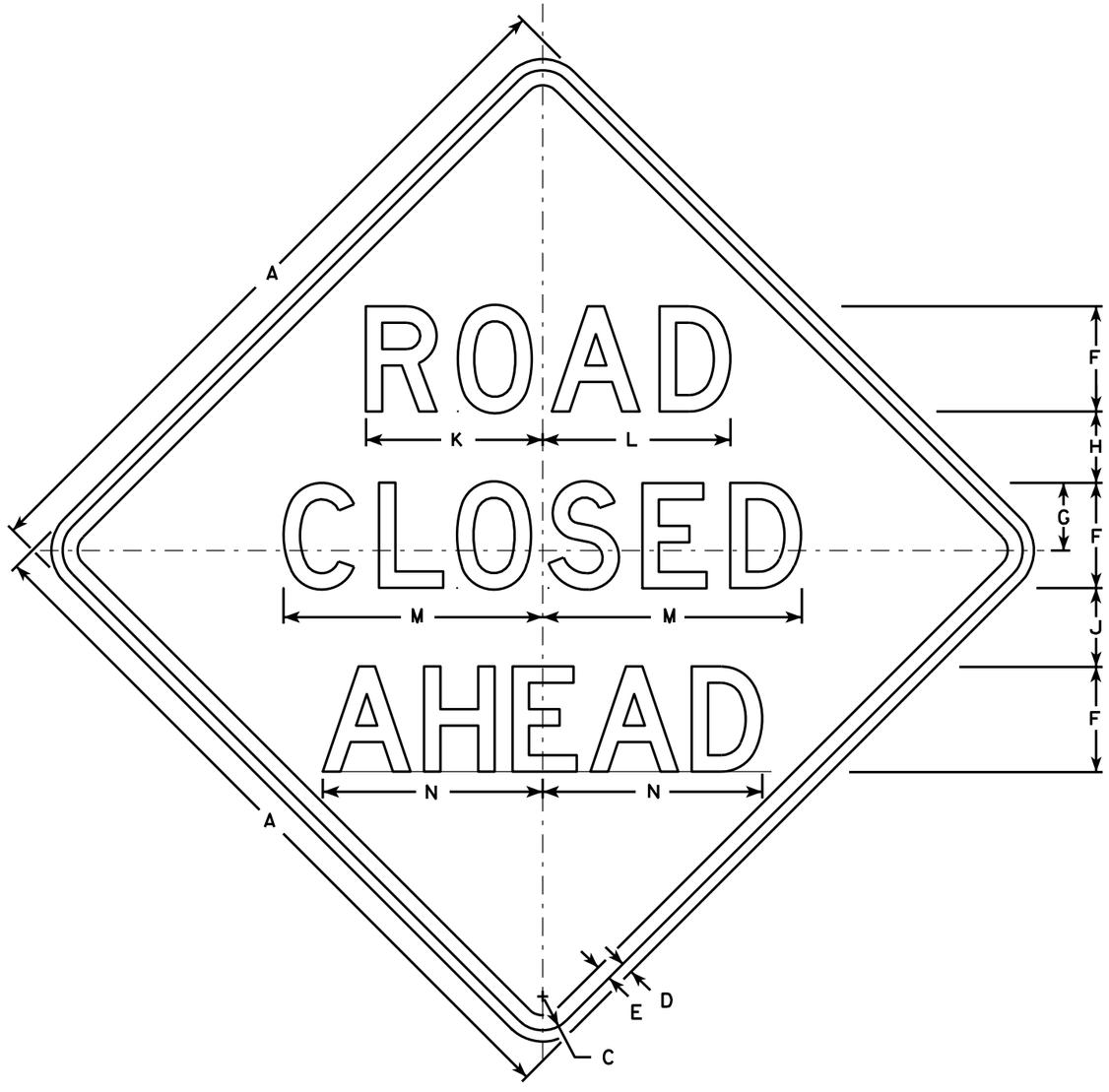
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

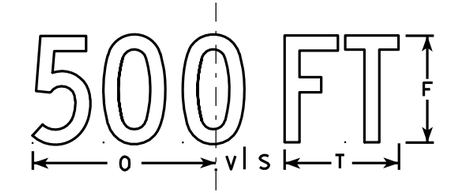
PROJECT NO:

SHEET NO: E

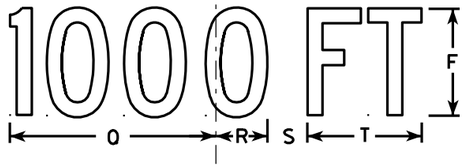
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



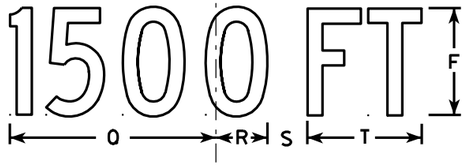
W20-3A



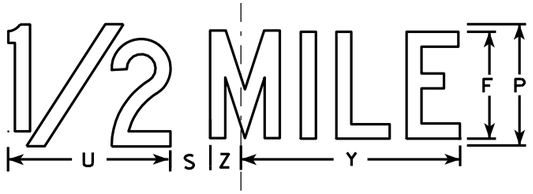
W20-3D



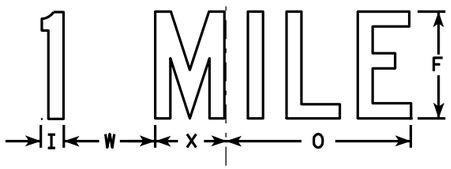
W20-3C



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.

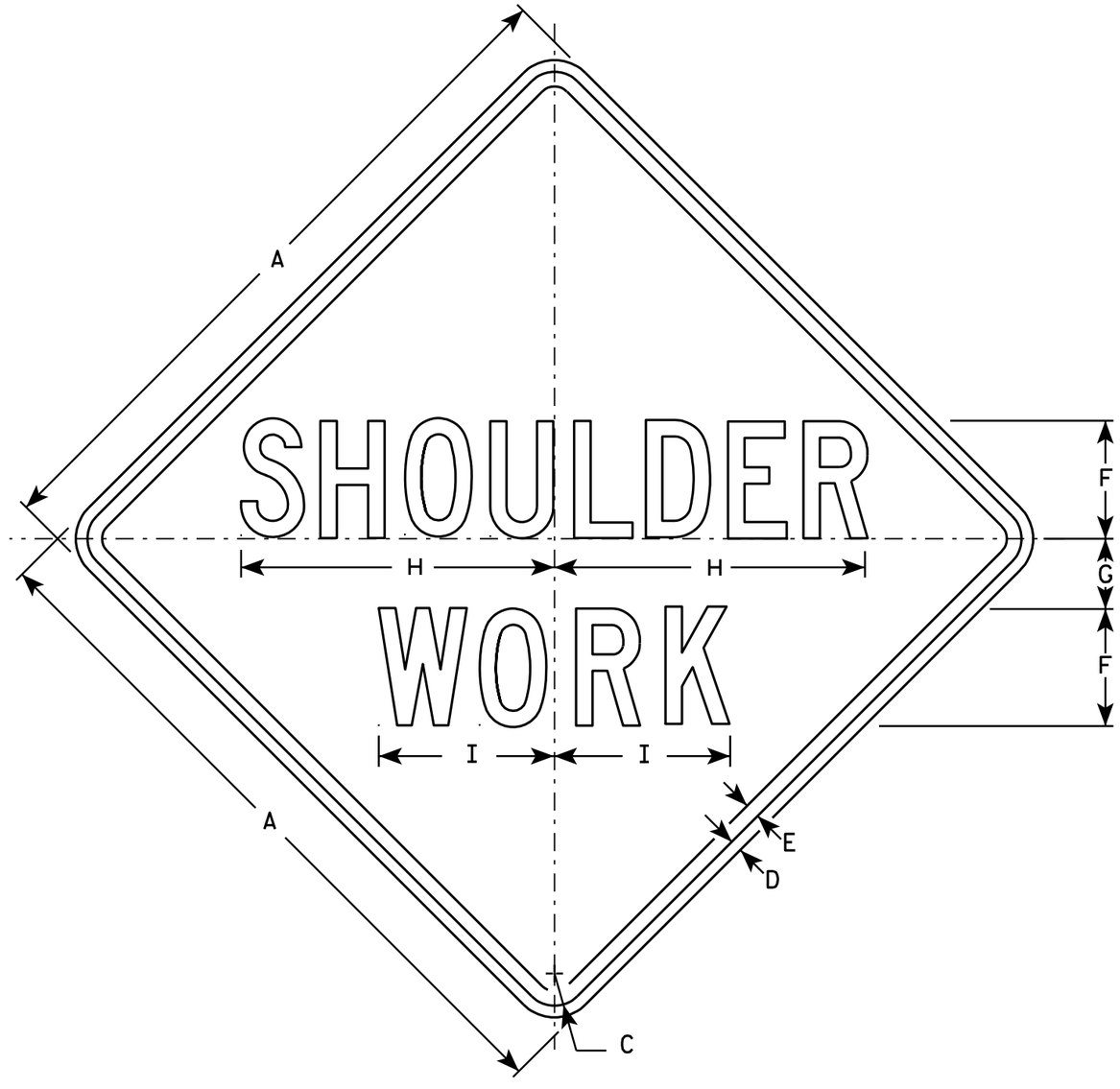
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	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: 500	E



W21-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4	2 1/2	10 3/4	6																		4.0
2S	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3 1/2	16	9																		9.0
4	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
5	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0

STANDARD SIGN
W21-5

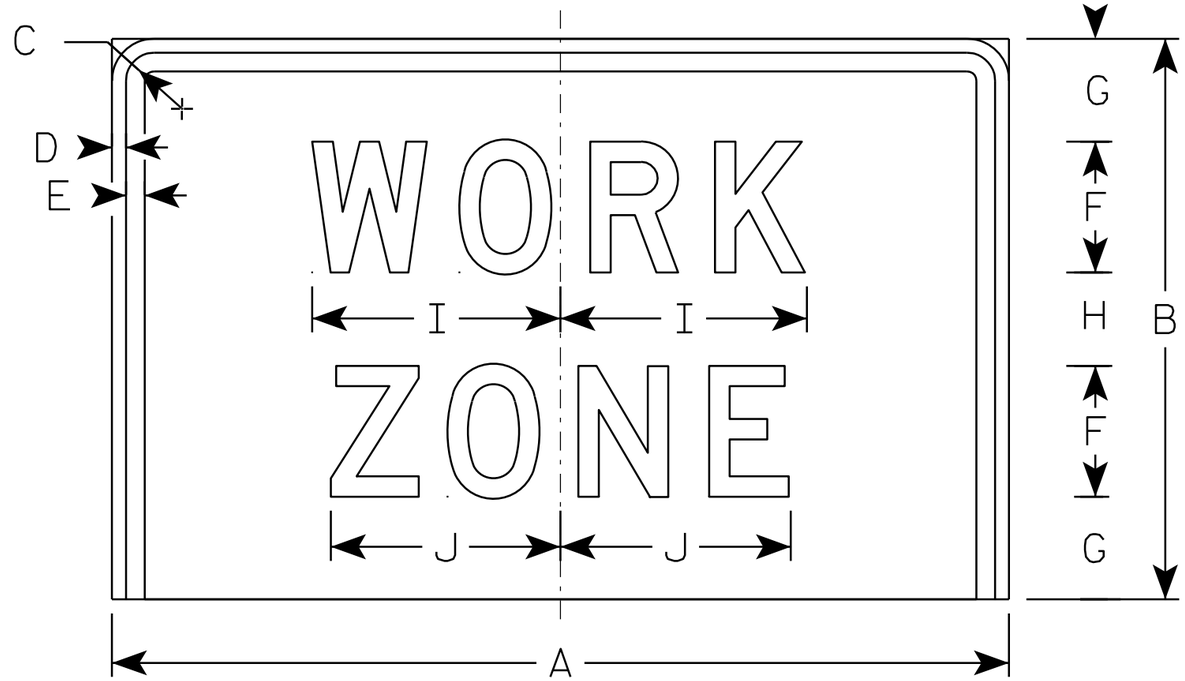
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-5.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 501 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W215.DGN PLOT DATE : 21-MAR-2011 08:01 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.207338:1.000000
WISDOT/CADDS SHEET 42



W21-620

NOTES

1. Sign is Type II - Type F - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	2 1/4	3/4	1	7	5 1/2	5	13 1/4	12 1/4																	10.0
2M	48	30	2 1/4	3/4	1	7	5 1/2	5	13 1/4	12 1/4																	10.0
3																											
4																											
5																											

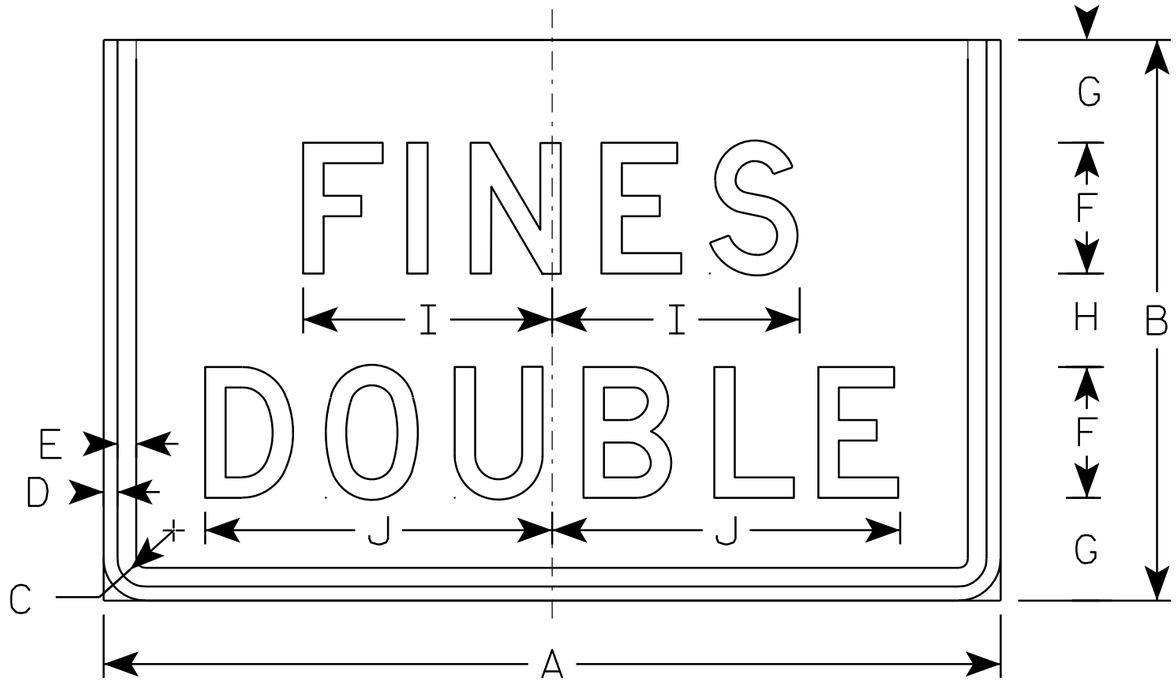
STANDARD SIGN
W21-620

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-620.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 502	E



W21-62R

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	2 1/4	3/4	1	7	5 1/2	5	13 1/4	18 5/8																	10.0
2M	48	30	2 1/4	3/4	1	7	5 1/2	5	13 1/4	18 5/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
W21-62R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-62R.2

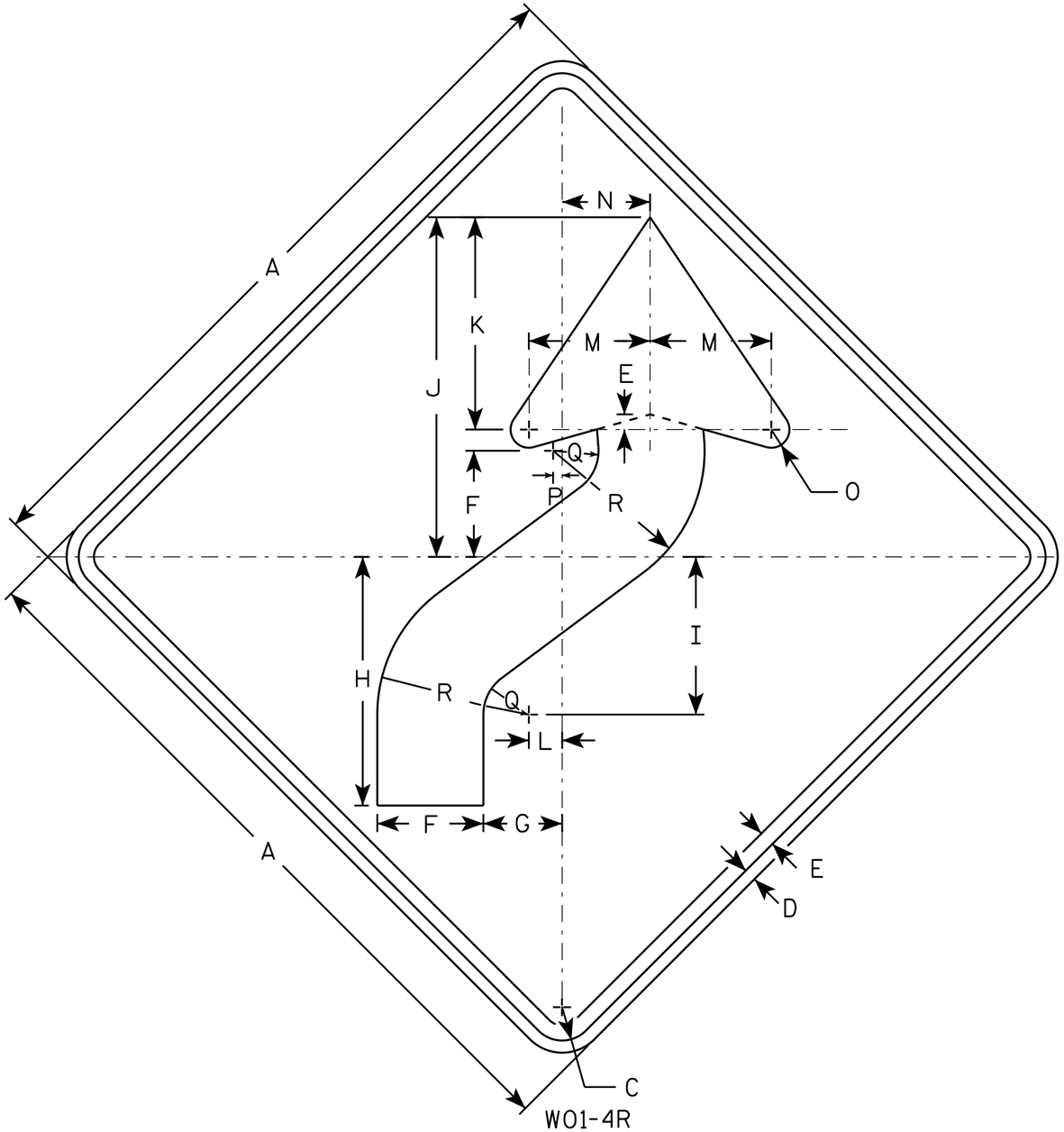
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 503	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W2162R.DGN PLOT DATE : 21-MAR-2011 10:51 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 8.108332:1.000000

WISDOT/CADDS SHEET 42

7

7



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

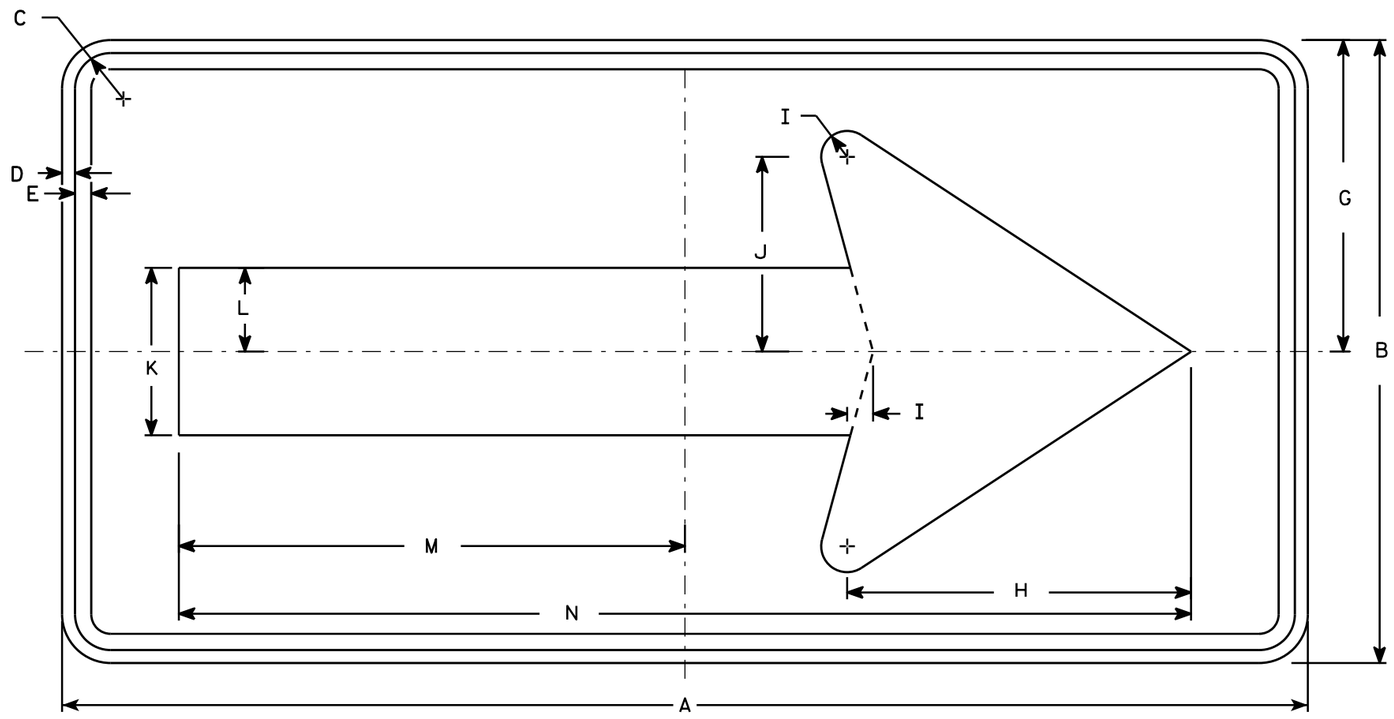
WISCONSIN DEPT OF TRANSPORTATION

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



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

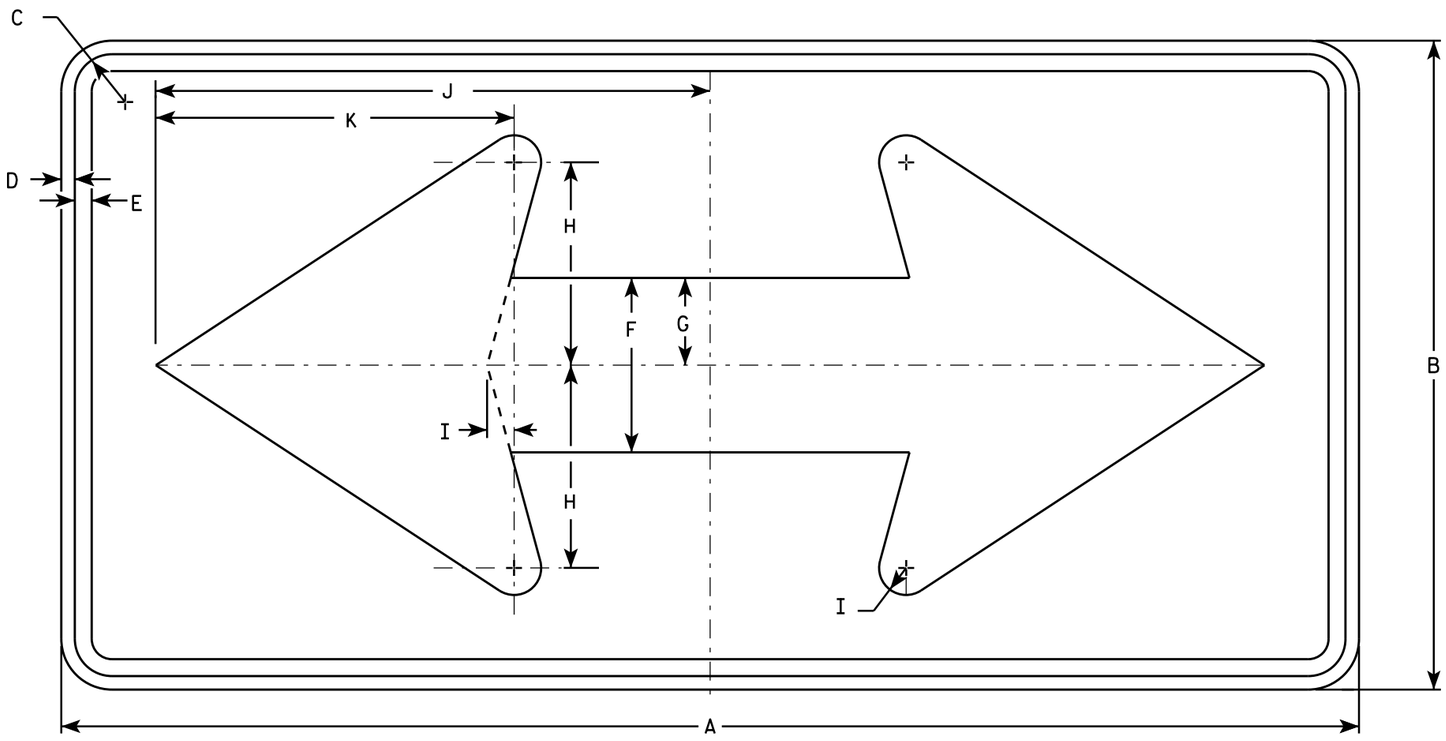
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W01-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5

STANDARD SIGN
W01-7

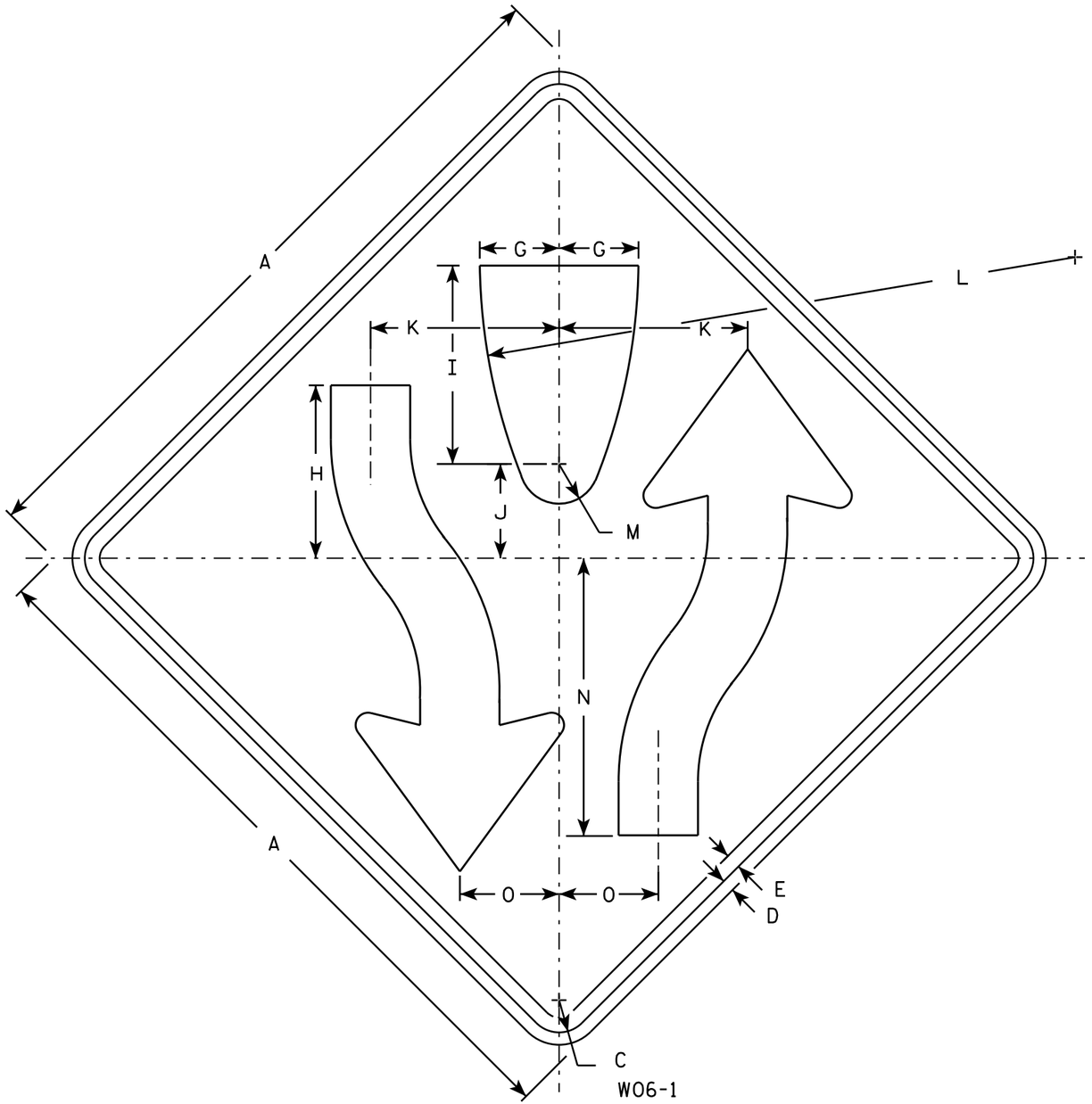
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE 1506 W01-7.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

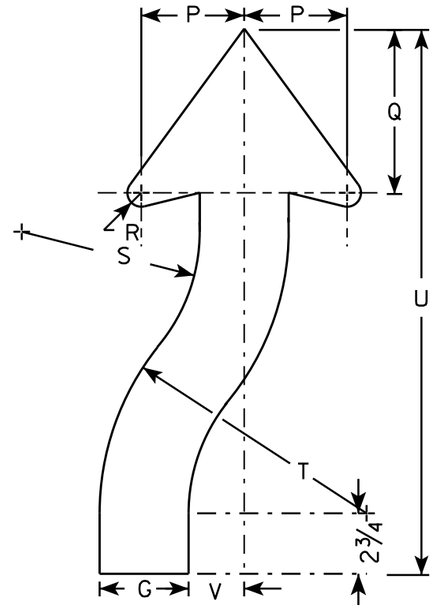
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W017.DGN PLOT DATE : 20-NOV-2013 10:35 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.604022:1.000000
WISDOT/CADDS SHEET 42



W06-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. 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. W06-2 same as W06-1 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	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
2S	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
2M	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
3	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
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
W06-1 & W06-2

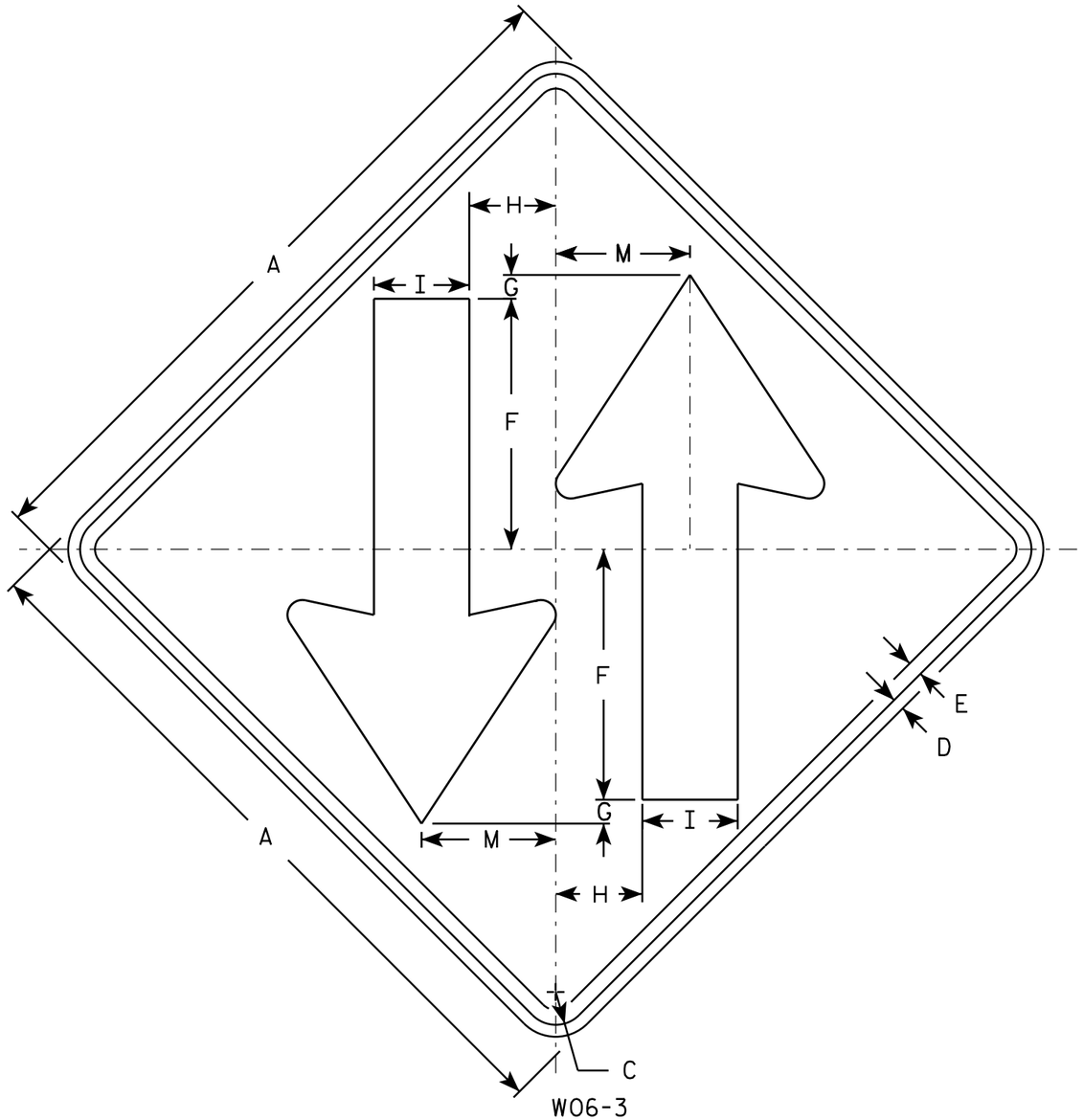
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE NO W06-1.1

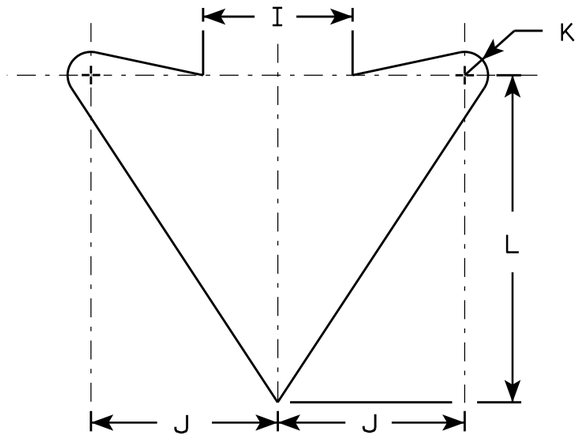
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W061.DGN PLOT DATE : 20-NOV-2013 12:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.810449:1.000000
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

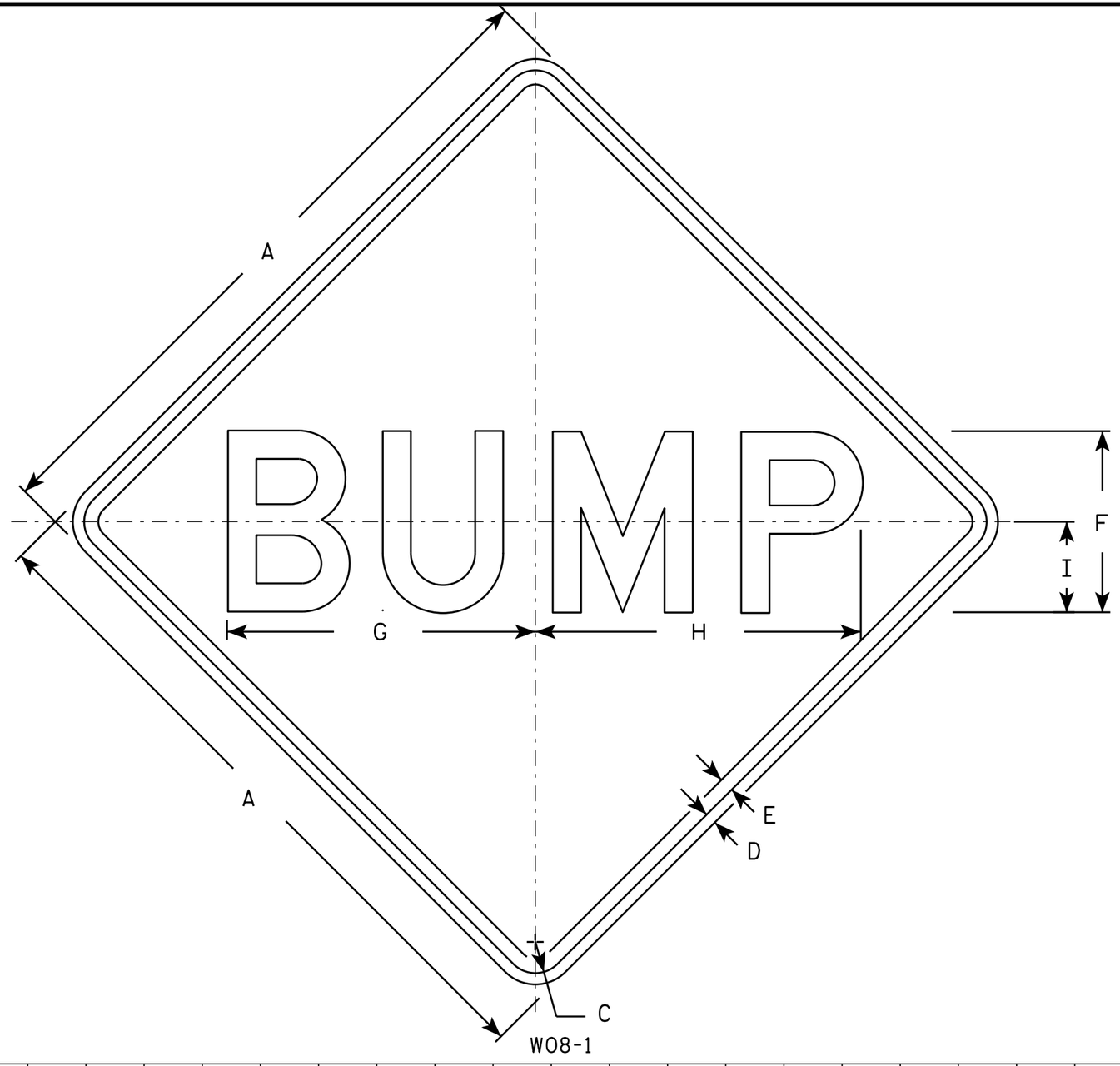
STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 508 W06-3.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 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 - 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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	10	16 7/8	17 7/8	5																		9.0
2S	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0
2M	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0
3	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0
4	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0
5	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0

STANDARD SIGN
W08-1

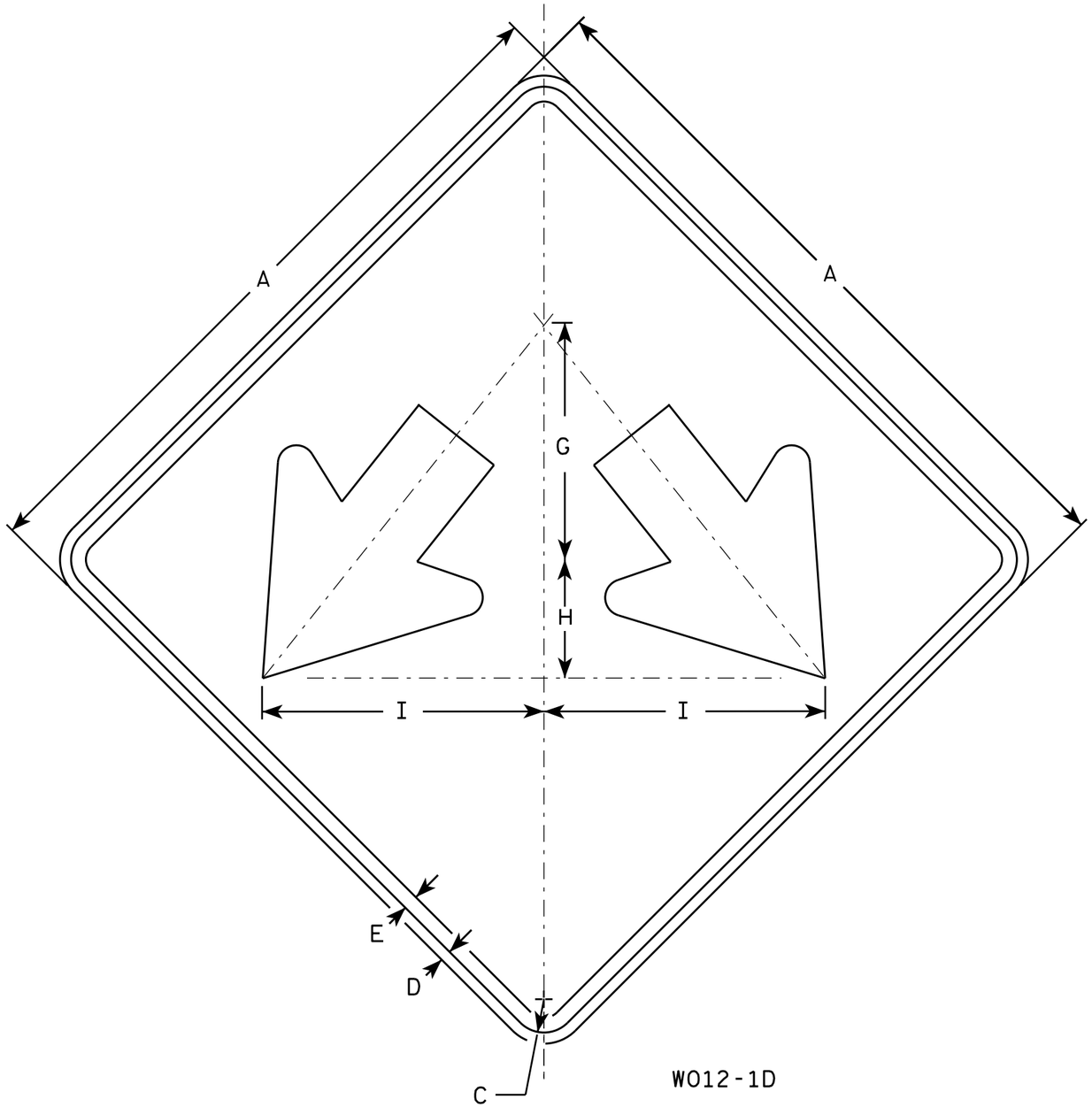
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 1509 W08-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

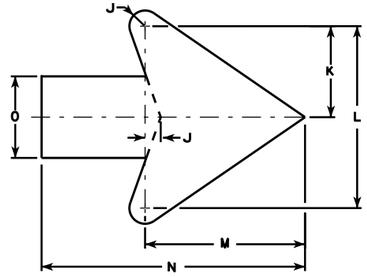
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W081.DGN PLOT DATE : 20-NOV-2013 12:24 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.688833:1.000000 WISDOT/CADDS SHEET 42



W012-1D

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 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
2S	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
2M	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
3	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
4	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
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

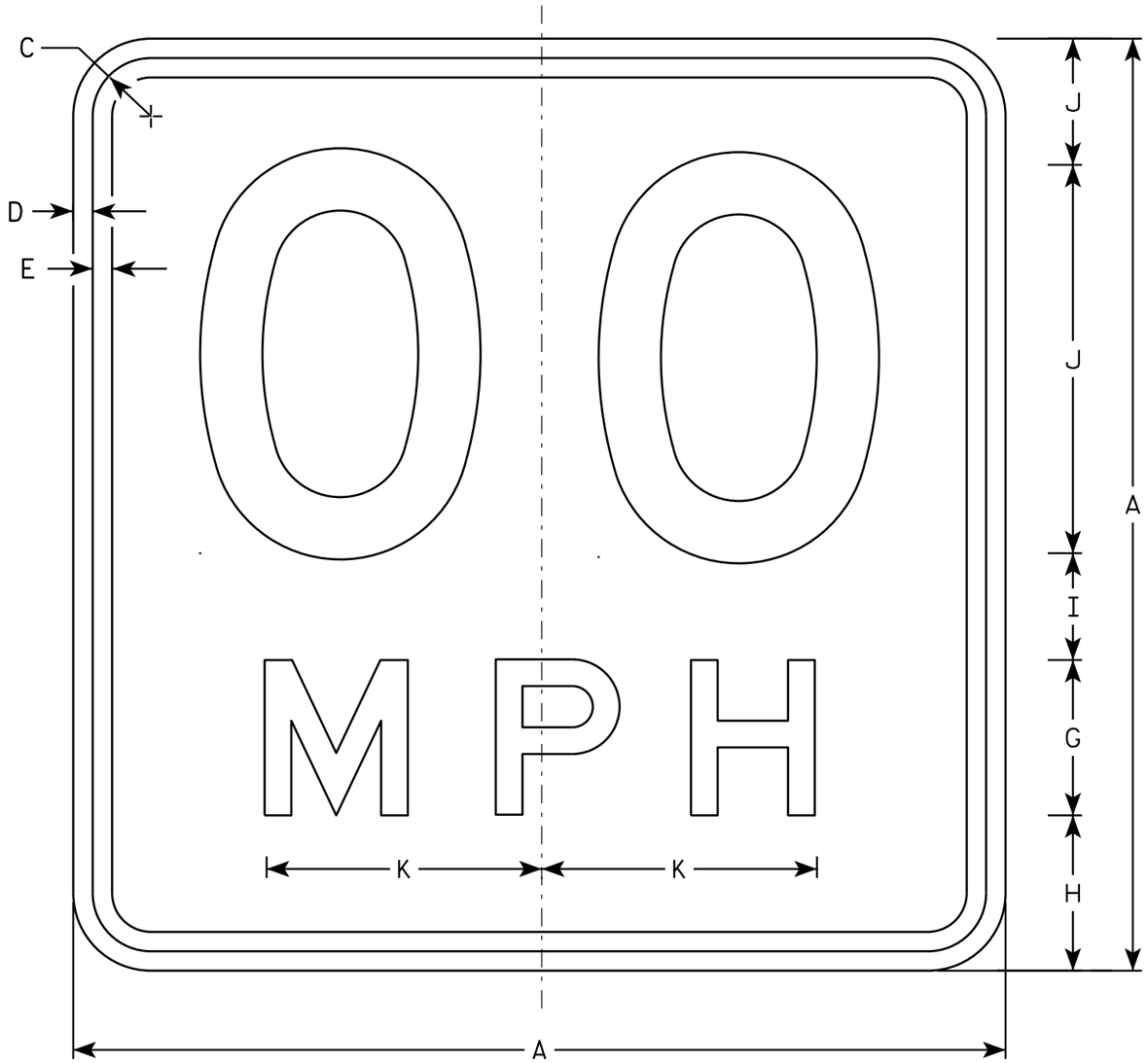
STANDARD SIGN
W012-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/20/13 PLATE 510 W012-1D.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



W013-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.00
2S	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
2M	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
3	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W013-1

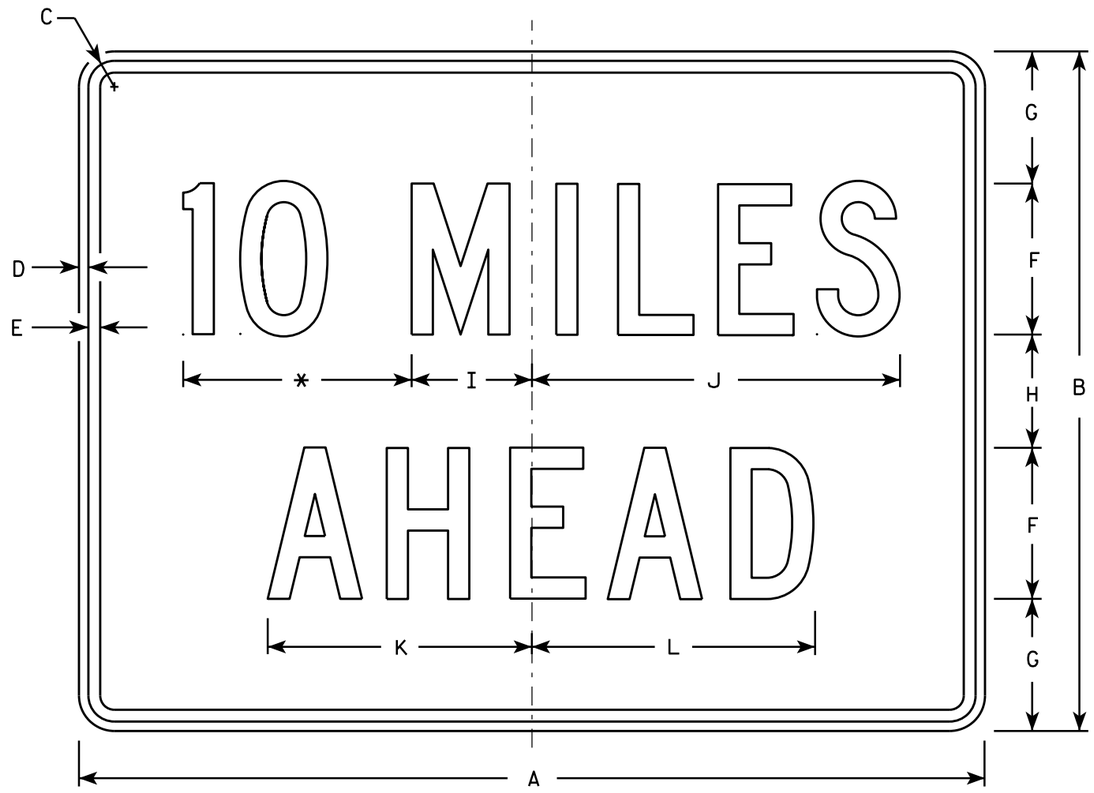
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

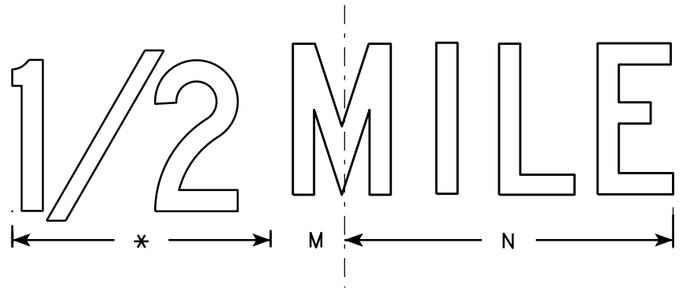
DATE 11/21/13 PLATE 511 W013-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W0131.DGN PLOT DATE : 02-DEC-2013 13:55 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.794391:1.000000
WISDOT/CADDS SHEET 42



W057-52



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	13													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0

STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W057-52.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W05752.DGN PLOT DATE : 28-FEB-2014 11:42 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 8.026599:1.000000 WISDOT/CADDS SHEET 42

STH 36 (NORTHBOUND RECONSTRUCTION)

STATION	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				
		Cut	Salvaged / Unusable Pavement Material	Fill	EBS	Cut Note 1	Salvaged / Unusable Pavement Material Note 2	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.20	Expanded EBS Backfill 1.10 Note 5	Mass Ordinate Note 8	Waste Note 9
904+00	0.00	158.07	41.69	0.14	0.00	0	0	0	0	0	0	0	0.00	0.00
904+17	17.00	139.16	25.08	0.35	0.00	94	21	0	0	94	0	0	72.37	72.37
904+50	33.00	127.60	25.08	1.13	0.86	163	31	1	1	257	1	1	203.65	204.23
904+86.56	36.56	98.01	25.08	1.83	11.04	153	34	2	8	409	4	9	320.03	329.46
905+00	13.44	96.37	25.08	1.75	13.47	48	12	1	6	458	5	16	354.85	371.00
905+50	50.00	65.51	23.08	2.33	30.86	150	45	4	41	608	9	61	455.60	516.90
906+00	50.00	43.64	23.08	5.65	51.70	101	43	7	76	709	18	145	505.05	650.43
906+10	10.00	36.32	23.08	5.81	55.40	15	9	2	20	723	21	167	508.76	675.96
906+50	40.00	33.10	23.08	22.15	57.41	51	34	21	84	775	46	259	501.12	760.25
906+63.24	13.24	35.55	23.08	24.34	55.54	17	11	11	28	792	59	290	492.96	782.55
907+00	36.76	40.79	23.08	16.00	52.23	52	31	27	73	844	92	370	480.54	850.84
907+30	30.00	44.54	23.08	9.34	49.31	47	26	14	56	891	109	432	485.41	917.76
907+50	20.00	48.30	23.08	13.32	44.76	34	17	8	35	925	119	471	492.62	963.31
908+00	50.00	75.08	23.08	12.79	21.81	114	43	24	62	1,040	148	538	535.11	1,073.60
908+38.03	38.03	103.10	23.08	6.19	0.00	125	33	13	15	1,165	164	555	612.05	1,167.42
908+50	11.97	110.83	23.08	2.21	0.00	47	10	2	0	1,213	166	555	647.00	1,202.38
908+80	30.00	116.50	23.08	1.42	0.00	126	26	2	0	1,339	169	555	745.23	1,300.61
909+00	20.00	118.73	23.08	0.89	0.00	87	17	1	0	1,426	170	555	814.23	1,369.61
909+50	50.00	119.91	23.08	1.02	0.00	221	43	2	0	1,647	172	555	990.33	1,545.71
910+00	50.00	113.44	23.08	0.68	0.00	216	43	2	0	1,863	174	555	1,161.77	1,717.14
910+50	50.00	113.90	23.08	4.17	0.00	211	43	4	0	2,074	179	555	1,324.13	1,879.51
911+00	50.00	129.54	23.08	0.99	0.00	225	43	5	0	2,299	185	555	1,501.06	2,056.44
911+25	25.00	122.34	23.08	4.65	0.00	117	21	3	0	2,416	188	555	1,593.17	2,148.55
911+50	25.00	130.06	23.08	0.22	0.00	117	21	2	0	2,532	191	555	1,685.95	2,241.33
912+00	50.00	125.24	23.08	0.82	0.00	236	43	1	0	2,769	192	555	1,878.44	2,433.81
912+50	50.00	123.88	23.08	3.76	0.00	231	43	4	0	3,000	197	555	2,061.26	2,616.64
912+68.95	18.95	124.59	23.08	4.50	0.00	87	16	3	0	3,087	201	555	2,128.78	2,684.16
913+00	31.05	123.96	23.08	4.94	0.00	143	27	5	0	3,230	207	555	2,238.63	2,794.01
913+10	10.00	123.83	23.08	3.89	0.00	46	9	2	0	3,276	209	555	2,274.01	2,829.39
913+50	40.00	128.36	23.08	1.55	0.00	187	34	4	0	3,462	214	555	2,421.78	2,977.16
914+00	50.00	119.00	23.08	3.17	0.00	229	43	4	0	3,691	219	555	2,602.83	3,158.21
914+06.28	6.28	119.74	23.08	3.22	0.00	28	5	1	0	3,719	220	555	2,624.34	3,179.72
914+10	3.72	120.73	23.08	3.26	0.00	17	3	0	0	3,736	221	555	2,637.19	3,192.57
914+50	40.00	122.96	23.08	2.86	0.00	181	34	5	0	3,916	226	555	2,778.06	3,333.44
915+00	50.00	111.43	23.08	5.38	0.00	217	43	8	0	4,133	235	555	2,943.18	3,498.56
915+50	50.00	97.61	23.08	9.73	0.00	194	43	14	0	4,327	252	555	3,077.19	3,632.57
916+00	50.00	105.83	23.08	7.91	0.00	188	43	16	0	4,515	272	555	3,203.22	3,758.60
916+50	50.00	128.99	23.08	3.34	0.00	217	43	10	0	4,733	284	555	3,365.40	3,920.78
917+00	50.00	133.39	23.08	1.26	0.00	243	43	4	0	4,976	289	555	3,560.49	4,115.87
917+01.05	1.05	133.29	23.08	1.13	0.00	5	1	0	0	4,981	289	555	3,564.72	4,120.10
917+50	48.95	128.13	23.08	0.00	0.00	237	42	1	0	5,218	290	555	3,758.61	4,313.99
						5,218	1,169	242	505					

Notes:

1 - Cut	Cut includes Salvaged /Unusable Pavement material	
2 - Salvaged /Unusable Pavement Material	This does not show up in cross sections	
3 - Fill	Does not include Unusable Pavement Exc volume	
5 - Expanded EBS	Will be backfilled with Select Borrow	
8 - Mass Ordinate	EBS to be backfilled with Select Borrow: Cut - Unusable Pavment Exc - (Fill * Fill Factor)	EBS is not usable outside the 1:1 slopes
9 - Waste	Cut - Unusable Pavement Exc - (Fill * Fill Factor) + (EBS * EBS Backfill Factor)	

STH 36 (SOUTHBOUND RECONSTRUCTION)

STATION	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				
		Cut	Salvaged / Unusable Pavement Material	Fill	EBS	Cut	Salvaged / Unusable Pavement Material	Fill	EBS	Cut 1.00	Expanded Fill 1.20	Expanded EBS Backfill 1.10	Mass Ordinate	Waste
						Note 1	Note 2	Note 3		Note 1		Note 5	Note 8	Note 9
904+00.00	0.00	171.80	35.50	0.10	0.00	0	0	0	0	0	0	0	0.00	0.00
904+17	17.00	158.98	35.50	0.38	0.00	104	22	0	0	104	0	0	81.60	81.60
904+50	33.00	120.90	35.50	2.48	0.00	171	43	2	0	275	2	0	207.15	207.15
904+56.49	6.49	112.99	35.50	3.44	15.73	28	9	1	2	303	3	2	225.87	227.95
905+00	43.51	80.75	35.50	16.85	42.30	156	57	16	47	459	23	54	305.15	358.66
905+50	50.00	51.03	35.50	18.60	70.89	122	66	33	105	581	62	169	322.04	490.85
906+00	50.00	28.37	35.50	20.86	89.18	74	66	37	148	655	106	332	285.98	617.82
906+10	10.00	25.50	32.83	26.68	87.22	10	13	9	33	665	117	368	272.74	640.51
906+50	40.00	23.26	28.83	18.62	85.14	36	46	34	128	701	157	508	222.90	731.12
906+83.9	33.90	20.46	27.50	16.46	81.10	27	35	22	104	728	183	623	188.55	811.57
907+00	16.10	16.65	24.83	16.63	83.31	11	16	10	49	740	195	677	172.18	849.11
907+30	30.00	13.42	24.83	16.57	86.07	17	28	18	94	756	217	780	139.16	919.60
907+50	20.00	12.38	24.83	20.71	89.75	10	18	14	65	766	234	852	113.74	965.82
908+00	50.00	70.73	24.83	11.14	36.21	77	46	29	117	843	269	980	109.32	1,089.68
908+50	50.00	106.37	24.83	5.01	0.00	164	46	15	34	1,007	287	1,017	209.36	1,226.61
908+80	30.00	107.36	24.83	2.82	0.00	119	28	4	0	1,125	292	1,017	295.29	1,312.53
909+00	20.00	111.54	24.83	2.35	0.00	81	18	2	0	1,207	295	1,017	355.67	1,372.92
909+09.63	9.63	112.11	24.83	2.13	0.00	40	9	1	0	1,246	296	1,017	385.74	1,402.98
909+50	40.37	113.97	24.83	1.59	0.00	169	37	3	0	1,415	299	1,017	514.28	1,531.52
910+00	50.00	115.47	24.83	1.12	0.00	212	46	3	0	1,628	302	1,017	677.71	1,694.96
910+50	50.00	112.53	24.83	2.85	0.00	211	46	4	0	1,839	306	1,017	838.42	1,855.66
911+00	50.00	115.25	24.83	2.15	0.00	211	46	5	0	2,050	312	1,017	997.78	2,015.02
911+25	25.00	115.13	24.83	4.01	0.00	107	23	3	0	2,157	315	1,017	1,078.02	2,095.26
911+50	25.00	124.47	24.83	0.12	0.00	111	23	2	0	2,267	318	1,017	1,163.65	2,180.89
912+00	50.00	125.80	24.83	0.88	0.00	232	46	1	0	2,499	319	1,017	1,348.28	2,365.52
912+50	50.00	123.29	24.83	4.25	0.00	231	46	5	0	2,730	324	1,017	1,527.23	2,544.47
912+84.42	34.42	113.69	24.83	11.26	0.00	151	32	10	0	2,881	336	1,017	1,634.76	2,652.00
913+00	15.58	110.11	24.83	13.16	0.00	65	14	7	0	2,945	345	1,017	1,676.54	2,693.78
913+10	10.00	107.38	24.83	8.09	0.00	40	9	4	0	2,986	350	1,017	1,702.90	2,720.14
913+50	40.00	135.10	24.83	1.54	0.00	180	37	7	0	3,165	358	1,017	1,837.16	2,854.40
914+00	50.00	143.78	24.83	3.12	0.00	258	46	4	0	3,424	363	1,017	2,044.22	3,061.46
914+10	10.00	144.01	24.83	2.80	0.00	53	9	1	0	3,477	365	1,017	2,087.00	3,104.24
914+10.44	0.44	144.02	24.83	2.84	0.00	2	0	0	0	3,479	365	1,017	2,088.89	3,106.13
914+50	39.56	140.89	24.83	0.38	0.00	209	36	2	0	3,688	367	1,017	2,258.40	3,275.64
915+00	50.00	122.36	24.83	2.93	0.00	244	46	3	0	3,932	371	1,017	2,452.50	3,469.74
915+50	50.00	111.61	24.83	8.13	0.00	217	46	10	0	4,148	383	1,017	2,610.86	3,628.11
916+00	50.00	116.64	24.83	15.41	0.00	211	46	22	0	4,360	410	1,017	2,750.08	3,767.32
916+50	50.00	123.06	24.83	2.00	0.00	222	46	16	0	4,582	429	1,017	2,906.70	3,923.94
916+85.3	35.30	122.81	24.83	2.56	0.00	161	32	3	0	4,742	432	1,017	3,031.38	4,048.63
917+00	14.70	122.46	24.83	1.01	0.00	67	14	1	0	4,809	434	1,017	3,083.47	4,100.71
917+50	50.00	120.86	24.83	0.06	0.00	225	46	1	0	5,034	435	1,017	3,261.59	4,278.83
						5,034	1,338	362	925					

Notes:

1 - Cut	Cut includes Salvaged /Unusable Pavement material	
2 - Salvaged /Unusable Pavement Material	This does not show up in cross sections	
3 - Fill	Does not include Unusable Pavement Exc volume	
5 - Expanded EBS	Will be backfilled with Select Borrow	
8 - Mass Ordinate	EBS to be backfilled with Select Borrow: Cut - Unusable Pavment Exc - (Fill * Fill Factor)	EBS is not usable outside the 1:1 slopes
9 - Waste	Cut - Unusable Pavement Exc - (Fill * Fill Factor) + (EBS * EBS Backfill Factor)	

9

9

PROJECT NO: 2240-13-60 | HWY: STH 36 | COUNTY: RAC/WAU/MIL | EARTHWORK | SHEET: 514 | E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

STH 36 (SOUTH TEMPORARY CROSSOVER)

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		Mass Ordinate
		Cut	Salvaged / Unusable Pavement Material	Fill	Cut Note 1	Salvaged / Unusable Pavement Material Note 2	Fill Note 3	Cut 1.00 Note 1	Expanded Fill 1.20	Note 8
893+04.08	0.00	5.08	1.75	0.00	0	0	0	0	0	0.00
893+50	45.92	16.84	1.75	0.00	19	3	0	19	0	15.67
893+55	5.00	18.22	1.75	0.00	3	0	0	22	0	18.59
893+56.54	1.54	0.00	3.50	0.00	1	0	0	22	0	18.96
894+00	43.46	41.79	3.50	0.00	34	6	0	56	0	46.96
894+50	50.00	44.78	3.50	0.00	80	6	0	136	0	120.63
895+00	50.00	47.09	3.50	0.00	85	6	0	221	0	199.21
895+50	50.00	49.19	3.50	0.00	89	6	0	310	0	281.87
895+65	15.00	49.84	3.50	0.00	28	2	0	338	0	307.44
896+00	35.00	49.11	3.50	0.00	64	5	0	402	0	367.04
896+50	50.00	48.28	3.50	0.00	90	6	0	492	0	450.73
897+00	50.00	49.24	3.50	0.00	90	6	0	583	0	534.55
897+50	50.00	49.86	3.50	0.00	92	6	0	674	0	619.82
898+00	50.00	48.84	3.50	0.00	91	6	0	766	0	704.72
898+50	50.00	49.55	3.50	0.00	91	6	0	857	0	789.34
899+00	50.00	46.91	3.50	0.00	89	6	0	946	0	872.17
899+50	50.00	34.85	3.50	0.00	76	6	0	1,022	0	941.39
899+70	20.00	31.87	3.50	0.00	25	3	0	1,046	0	963.51
899+75	5.00	22.11	1.75	0.00	5	0	0	1,051	0	968.02
900+00	25.00	19.90	1.75	0.00	19	2	0	1,071	0	985.85
900+50	50.00	14.65	1.75	0.00	32	3	0	1,103	0	1,014.60
901+00	50.00	6.25	1.75	0.00	19	3	0	1,122	0	1,030.71
901+14	14.00	4.62	1.75	0.00	3	1	0	1,125	0	1,032.62
					1,125	92	0			

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
8 - Mass Ordinate	Cut - Unusable Pavment Exc - (Fill * Fill Factor)

9

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PROJECT NO: 2240-13-60 | HWY: STH 36 | COUNTY: RAC/WAU/MIL | EARTHWORK | SHEET: 515 | E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

STH 36 (NORTH TEMPORARY CROSSOVER)

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.20	
					Note 1	Note 2	Note 3	Note 1		Note 8
917+50	0.00	4.83	1.75	0.00	0	0	0	0	0	0.00
918+00	50.00	9.73	1.75	0.00	13	3	0	13	0	10.25
918+50	50.00	13.00	1.75	0.00	21	3	0	35	0	28.05
918+66.02	16.02	38.75	3.50	0.00	15	2	0	50	0	41.84
919+00	33.98	40.87	3.50	0.00	50	4	0	100	0	87.55
919+50	50.00	47.72	3.50	0.00	82	6	0	182	0	163.10
920+00	50.00	48.31	3.50	0.00	89	6	0	271	0	245.53
920+15	15.00	49.17	3.50	0.00	27	2	0	298	0	270.67
920+50	35.00	49.22	3.50	0.00	64	5	0	362	0	329.90
921+00	50.00	50.03	3.50	0.00	92	6	0	454	0	415.32
921+50	50.00	47.08	3.50	0.00	90	6	0	544	0	498.75
922+00	50.00	45.28	3.50	0.00	86	6	0	629	0	577.79
922+50	50.00	44.36	3.50	0.00	83	6	0	712	0	654.31
923+00	50.00	47.18	3.50	0.00	85	6	0	797	0	732.59
923+50	50.00	45.69	3.50	0.00	86	6	0	883	0	812.10
924+00	50.00	39.77	3.50	0.00	79	6	0	962	0	884.74
924+50	50.00	27.74	3.50	0.00	63	6	0	1,025	0	940.77
924+70.85	20.85	22.88	3.50	0.00	20	3	0	1,044	0	957.61
924+80	9.15	10.19	1.75	0.00	6	1	0	1,050	0	962.32
925+00	20.00	9.56	1.75	0.00	7	1	0	1,057	0	968.34
925+50	50.00	8.29	1.75	0.00	17	3	0	1,073	0	981.63
925+54	4.00	8.07	1.75	0.00	1	0	0	1,075	0	982.58
					1,075	92	0			

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
8 - Mass Ordinate	Cut - Unusable Pavment Exc - (Fill * Fill Factor)

STH 36 (SOUTH TEMPORARY CROSSOVER - REMOVAL)

STATION	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		Mass Ordinate
		Cut	Add. Area from Removal of 5" temp Asphalt	Salvaged/Unusable Pavement Material	Fill Note 9	Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Cut 1.00 Note 1	Expanded Fill 1.20	Note 8
893+04	0.00	3.58	0.00	2.08	0.06	0	0	0	0	0	0.00
893+50	46.00	3.04	0.83	2.08	5.65	6	4	5	6	6	-3.76
893+56	6.00	3.96	2.08	2.08	13.02	1	0	2	6	8	-5.93
893+56.54	0.54	0.00	0.83	4.17	0.83	0	0	0	6	8	-6.12
894+00	43.46	6.07	0.83	4.17	17.26	5	7	15	11	26	-25.42
894+50	50.00	6.07	0.83	4.17	16.84	11	8	32	23	64	-59.78
895+00	50.00	6.07	0.83	4.17	16.36	11	8	31	34	101	-93.14
895+50	50.00	6.04	1.42	4.17	16.51	11	8	30	45	137	-126.16
895+65	15.00	6.11	5.83	4.17	20.81	3	2	10	48	150	-137.54
896+00	35.00	6.09	5.83	4.17	20.99	8	5	27	56	182	-167.54
896+50	50.00	6.33	5.83	4.17	19.92	11	8	38	68	228	-209.22
897+00	50.00	6.22	5.83	4.17	20.45	12	8	37	79	273	-250.17
897+50	50.00	6.23	5.83	4.17	20.41	12	8	38	91	318	-291.75
898+00	50.00	6.32	5.83	4.17	20.00	12	8	37	103	363	-332.74
898+50	50.00	6.14	5.83	4.17	20.82	12	8	38	114	408	-374.26
899+00	50.00	6.20	1.67	4.17	15.49	11	8	34	126	449	-410.89
899+50	50.00	6.20	0.83	2.08	10.87	11	6	24	137	478	-434.49
899+72.87	22.87	6.36	0.83	2.08	8.96	5	2	8	142	488	-441.01
899+75	2.13	3.16	0.83	2.08	5.65	0	0	1	143	489	-441.49
900+00	25.00	3.16	0.83	2.08	4.80	3	2	5	146	494	-446.29
900+50	50.00	3.16	0.83	2.08	3.11	6	4	7	152	503	-453.08
901+00	50.00	3.29	0.00	2.08	0.02	6	4	3	157	507	-454.44
901+14	14.00	3.63	0.00	2.08	0.00	2	1	0	159	507	-453.73
						159	106	422			

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
8 - Mass Ordinate	Cut - Unusable Pavment Exc - (Fill * Fill Factor)
9 - Fill	Fill includes additional fill for removal of 5" temporary apshalt surface

STH 36 (NORTH TEMPORARY CROSSOVER - REMOVAL)

STATION	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		Mass Ordinate
		Cut	Add. Area from Removal of 5" temp Asphalt	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.20	
					Note 9	Note 1	Note 2	Note 3	Note 1		Note 8
917+50	0.00	3.68	0.00	2.08	0.00	0	0	0	0	0	0.00
918+00	50.00	3.16	0.00	2.08	0.79	6	4	1	6	1	1.60
918+50	50.00	3.16	0.54	2.08	1.96	6	4	3	12	4	0.53
918+65	15.00	6.38	0.83	2.08	13.17	3	1	4	15	9	-3.02
919+00	35.00	6.20	0.83	4.17	12.80	8	4	17	23	29	-19.12
919+50	50.00	6.20	0.83	4.17	11.94	11	8	23	34	57	-42.85
920+00	50.00	6.20	1.38	4.17	12.22	11	8	22	46	84	-65.93
920+15	15.00	6.24	5.83	4.17	16.47	3	2	8	49	93	-74.35
920+50	35.00	6.21	5.83	4.17	16.61	8	5	21	57	119	-97.41
921+00	50.00	6.21	5.83	4.17	16.59	12	8	31	69	156	-130.52
921+50	50.00	6.15	5.83	4.17	16.80	11	8	31	80	193	-163.88
922+00	50.00	6.17	5.83	4.17	16.74	11	8	31	92	230	-197.46
922+50	50.00	6.18	5.83	4.17	16.71	11	8	31	103	267	-230.92
923+00	50.00	6.17	5.83	4.17	16.74	11	8	31	115	304	-264.37
923+50	50.00	6.16	5.83	4.17	16.78	11	8	31	126	342	-297.92
924+00	50.00	6.20	0.83	4.17	12.85	11	8	27	138	375	-327.12
924+25	25.00	6.20	0.83	4.17	13.98	6	4	12	143	389	-340.15
924+50	25.00	6.19	0.00	4.17	10.07	6	4	11	149	403	-351.63
924+70.85	20.85	5.88	0.00	4.17	8.63	5	3	7	154	412	-358.85
924+75	4.15	3.04	0.00	2.08	9.01	1	0	1	154	413	-360.27
925+00	25.00	3.04	0.00	2.08	1.04	3	2	5	157	419	-364.98
925+50	50.00	3.04	0.00	2.08	0.46	6	4	1	163	420	-364.88
925+54	4.00	3.04	0.00	2.08	0.29	0	0	0	163	420	-364.80
						163	108	350			

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
8 - Mass Ordinate	Cut - Unusable Pavment Exc - (Fill * Fill Factor)
9 - Fill	Fill includes additional fill for removal of 5" temporary apshalt surface

STH 36 (NORTHBOUND INSIDE SHOULDER BEAM GUARD)

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		Mass Ordinate
		Cut	Salvaged / Unusable Pavement Material	Fill	Cut Note 1	Salvaged / Unusable Pavement Material Note 2	Fill Note 3	Cut 1.00 Note 1	Expanded Fill 1.20	Note 8
740+26	0.00	8.64	1.00	0.27	0	0	0	0	0	0.00
740+50	24.00	9.00	1.00	0.49	8	1	0	8	0	6.54
741+00	50.00	9.95	1.00	2.93	18	2	3	25	4	18.43
741+50	50.00	10.16	1.00	8.11	19	2	10	44	16	22.93
741+53	3.00	10.11	1.00	8.27	1	0	1	45	18	22.86
741+78	25.00	11.00	1.00	4.00	10	1	6	55	24	24.89
742+00	22.00	12.07	1.00	1.16	9	1	2	64	27	30.95
742+03	3.00	12.21	1.00	0.89	1	0	0	66	27	32.05
742+34	31.00	12.74	1.00	0.42	14	1	1	80	28	44.32
742+50	16.00	12.88	1.00	0.27	8	1	0	88	28	51.08
742+60	10.00	13.03	1.00	0.08	5	0	0	92	28	55.43
742+93	33.00	15.23	2.00	0.00	17	2	0	110	28	70.81
743+00	7.00	15.27	2.33	0.00	4	1	0	114	28	74.20
743+20	20.00	15.33	3.33	0.05	11	2	0	125	28	83.41
743+50	30.00	14.10	3.33	2.05	16	4	1	141	30	94.66
743+75	25.00	12.82	3.33	17.80	12	3	9	154	41	93.00
					154	20	34			

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
8 - Mass Ordinate	Cut - Unusable Pavment Exc - (Fill * Fill Factor)

STH 36 (NORTHBOUND INSIDE SHOULDER BEAM GUARD)

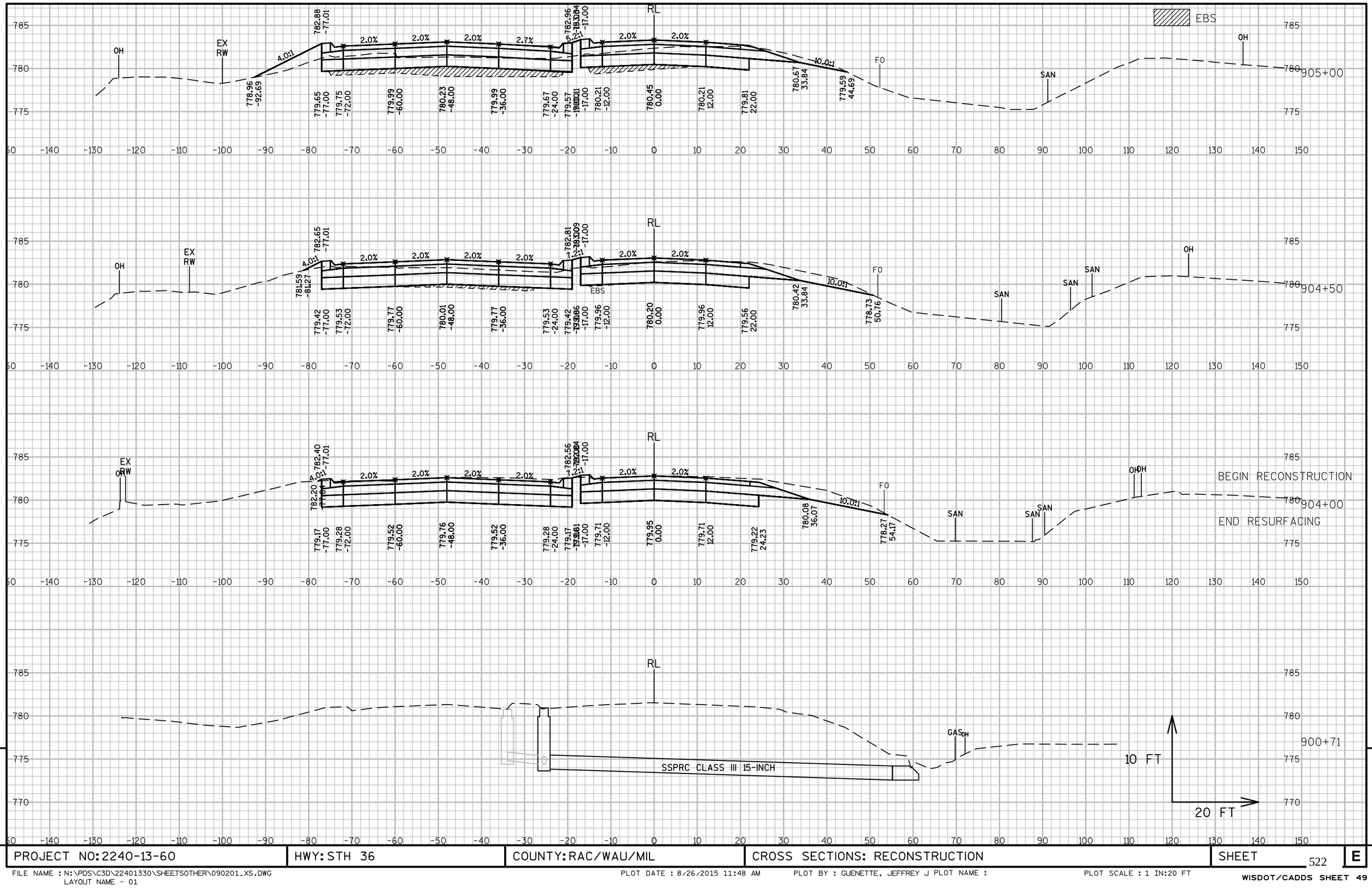
STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		Mass Ordinate
		Cut	Salvaged / Unusable Pavement Material	Fill	Cut Note 1	Salvaged / Unusable Pavement Material Note 2	Fill Note 3	Cut 1.00 Note 1	Expanded Fill 1.20	Note 8
744+65	0.00	18.08	3.33	4.83	0	0	0	0	0	0.00
744+98	33.00	14.43	3.33	5.45	20	4	6	20	8	8.25
745+00	2.00	14.31	3.33	4.81	1	0	0	21	8	8.61
745+18	18.00	14.38	3.00	1.31	10	2	2	30	10	13.62
745+50	32.00	13.59	1.67	0.71	17	3	1	47	12	26.00
746+00	50.00	16.80	1.00	1.62	28	2	2	75	14	49.07
746+28	28.00	12.44	1.00	5.80	15	1	4	90	19	58.57
746+50	22.00	10.19	1.00	4.30	9	1	4	100	24	62.04
747+00	50.00	10.17	1.00	0.00	19	2	4	118	29	74.26
747+03	3.00	10.35	1.00	0.00	1	0	0	120	29	75.29
					120	15	24			

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
8 - Mass Ordinate	Cut - Unusable Pavment Exc - (Fill * Fill Factor)

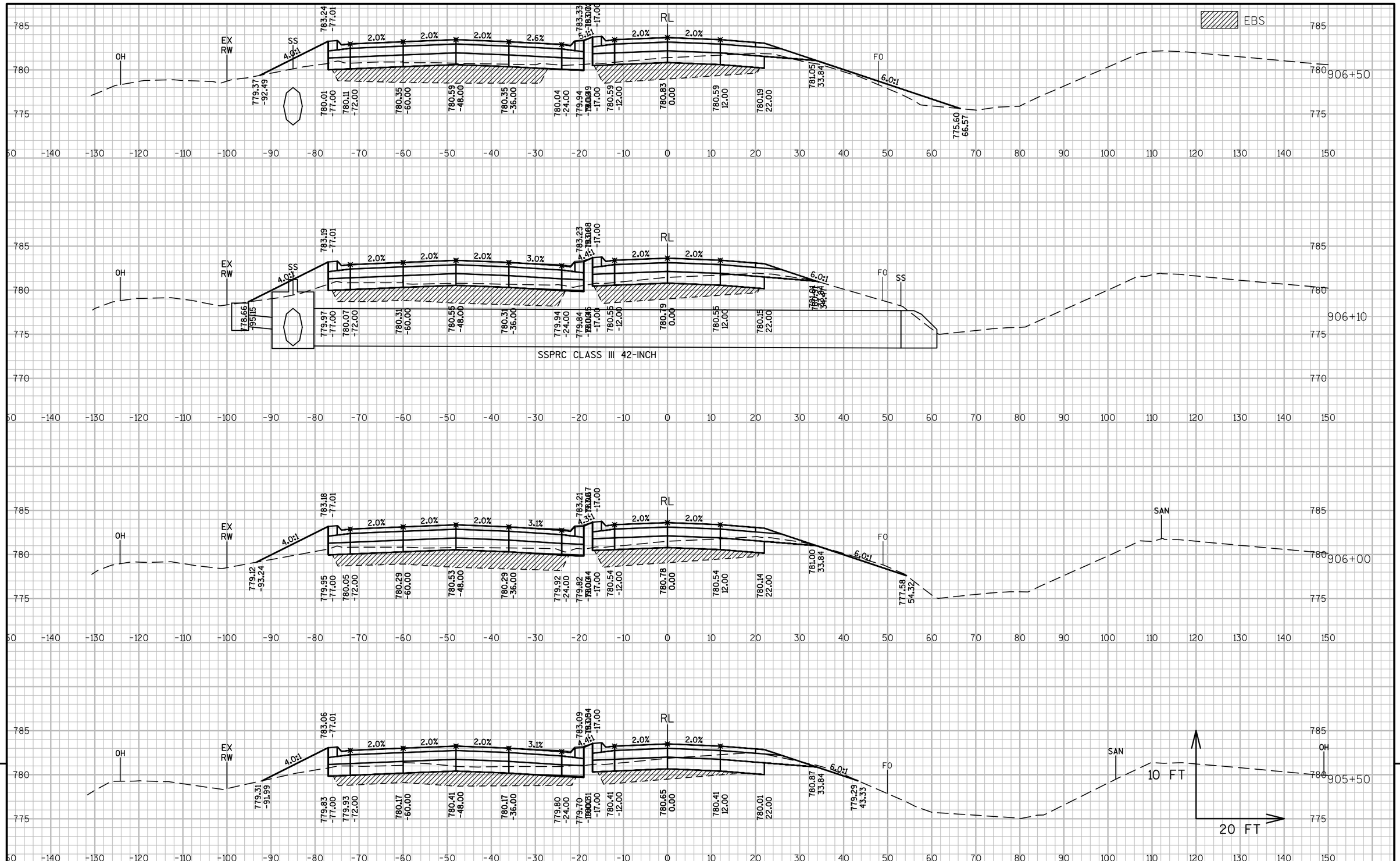
STH 36 (SOUTHBOUND INSIDE SHOULDER BEAM GUARD)

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		Mass Ordinate
		Cut	Salvaged / Unusable Pavement Material	Fill	Cut	Salvaged / Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.20	
					Note 1	Note 2	Note 3	Note 1		Note 8
744+90	0.00	16.64	2.00	3.08	0	0	0	0	0	0.00
744+98	8.00	15.07	2.00	0.03	5	1	0	5	1	3.55
745+00	2.00	15.64	2.00	0.00	1	0	0	6	1	4.54
745+18	18.00	16.09	1.67	1.35	11	1	0	16	1	13.36
745+50	32.00	18.08	1.00	0.00	20	2	1	37	2	31.07
746+00	50.00	30.19	1.00	0.00	45	2	0	81	2	73.91
746+28	28.00	26.93	1.00	0.00	30	1	0	111	2	102.49
746+50	22.00	17.30	1.00	0.00	18	1	0	129	2	119.70
747+00	50.00	14.85	1.00	0.00	30	2	0	159	2	147.61
747+03	3.00	14.87	1.00	0.00	2	0	0	160	2	149.15
747+15	12.00	14.97	1.00	0.00	7	0	0	167	2	155.34
747+40	25.00	16.47	1.00	0.00	15	1	0	182	2	168.97
747+50	10.00	16.74	1.00	0.00	6	0	0	188	2	174.75
747+65	15.00	16.37	1.00	0.00	9	1	0	197	2	183.39
747+89	24.00	16.15	1.00	0.00	14	1	0	211	2	196.96
					211	12	2			

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
8 - Mass Ordinate	Cut - Unusable Pavment Exc - (Fill * Fill Factor)



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: RECONSTRUCTION	SHEET 522	E



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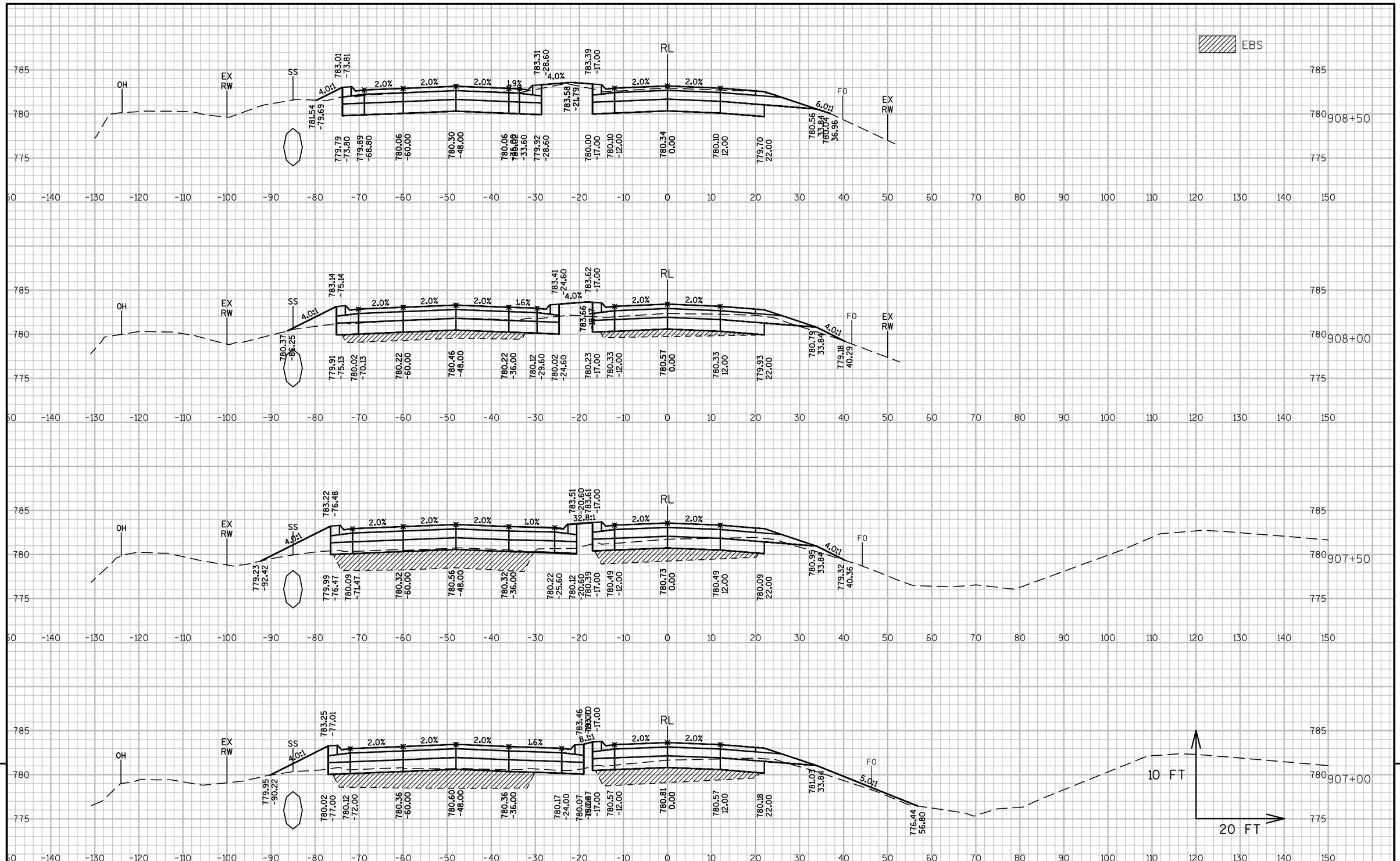
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: RECONSTRUCTION	SHEET 523	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_XS.DWG
LAYOUT NAME - 02

PLOT DATE : 8/26/2015 11:48 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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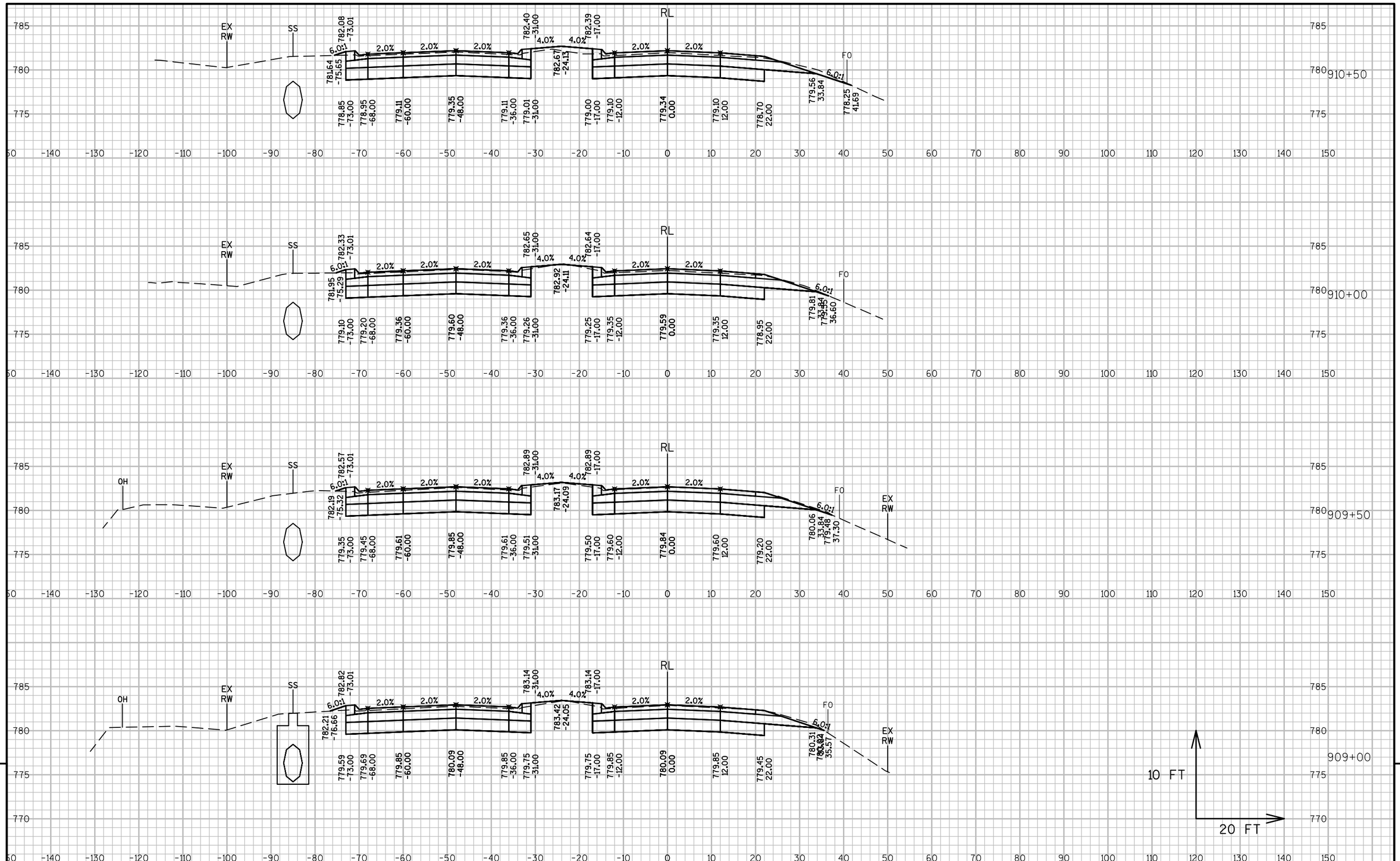
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: RECONSTRUCTION	SHEET 524	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_XS.DWG
LAYOUT NAME - 03
PLOT DATE : 8/26/2015 11:48 AM
PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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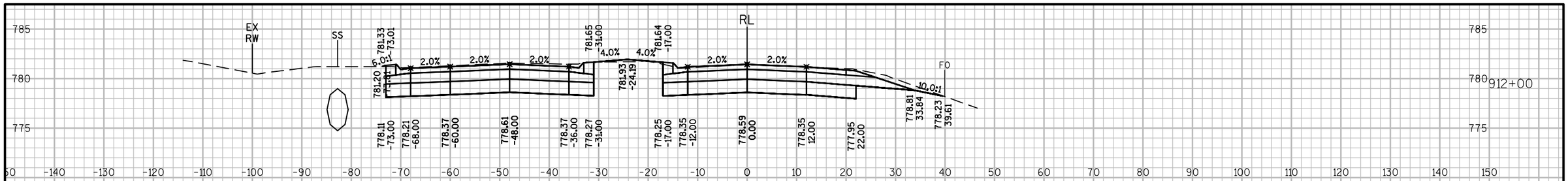
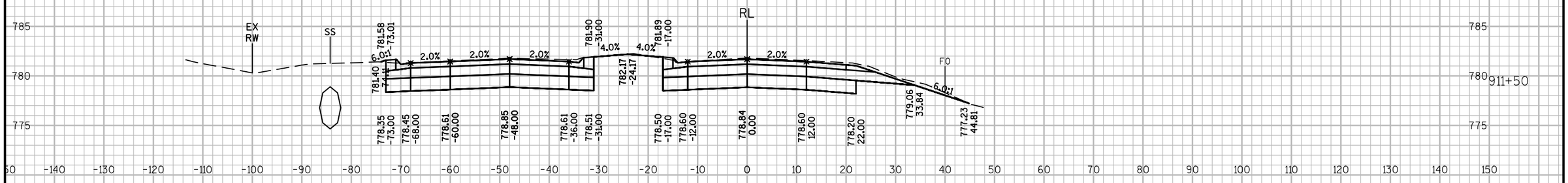
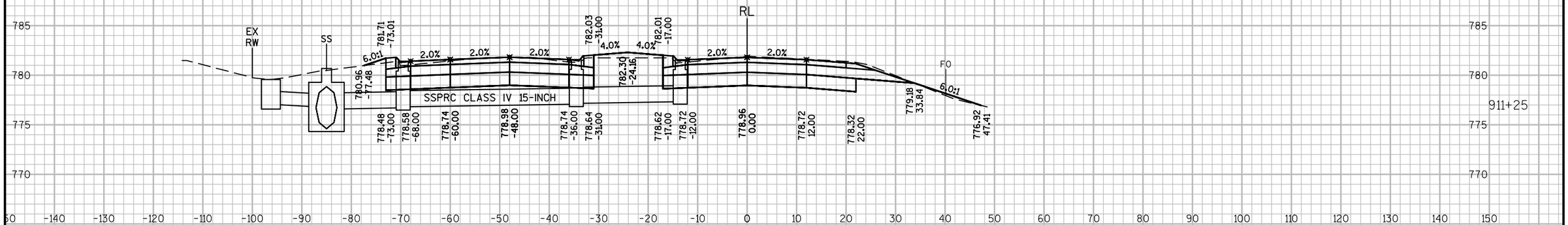
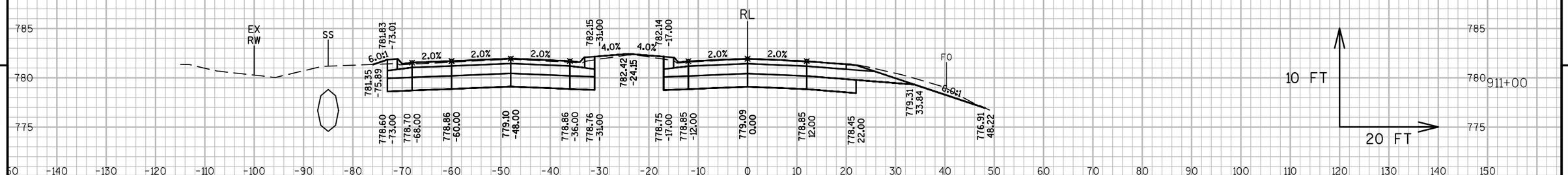
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: RECONSTRUCTION	SHEET 525	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_XS.DWG
LAYOUT NAME - 04
PLOT DATE : 8/26/2015 11:48 AM
PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49









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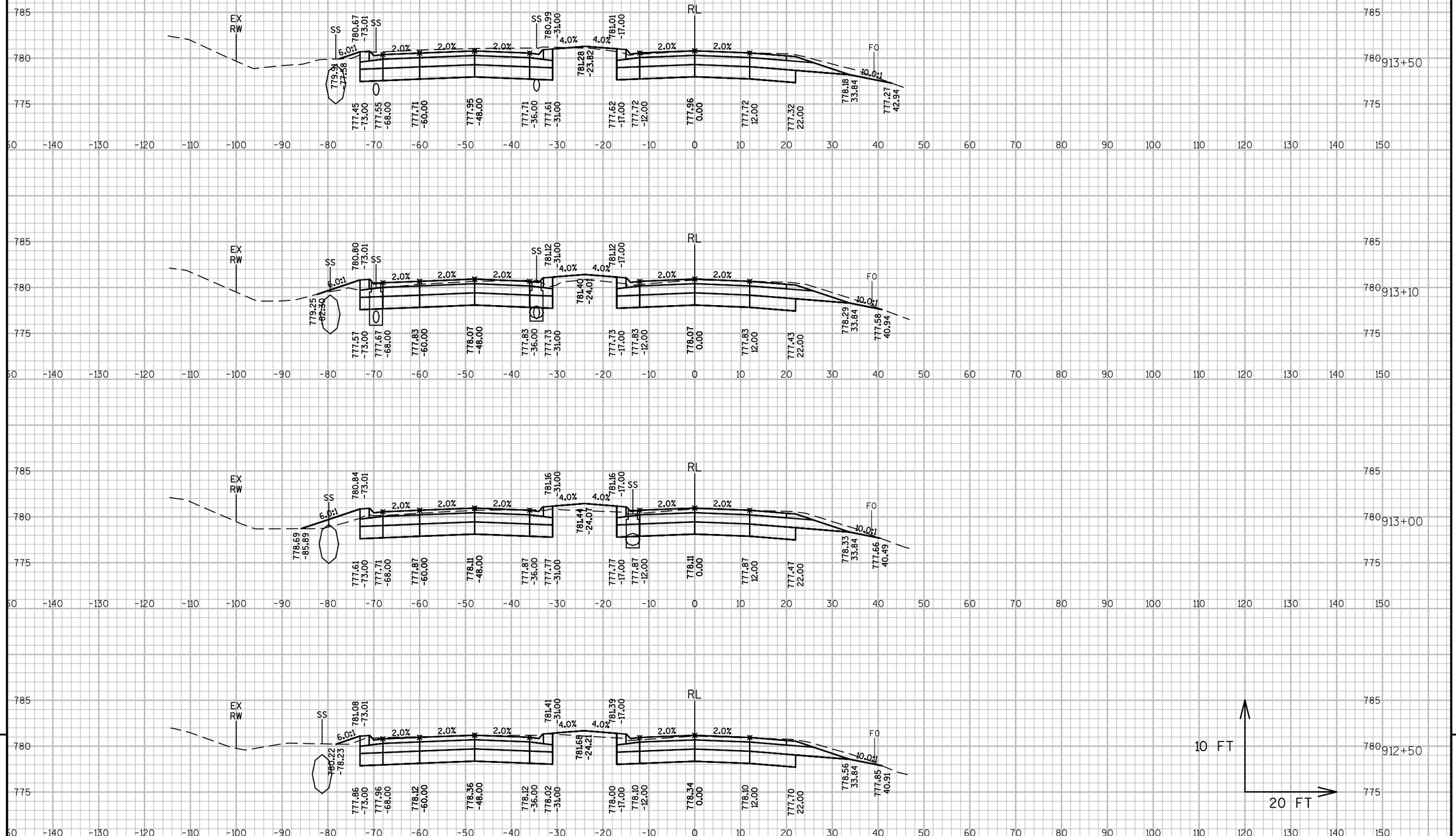
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: RECONSTRUCTION	SHEET 526	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_XS.DWG
LAYOUT NAME - 05

PLOT DATE : 8/26/2015 11:49 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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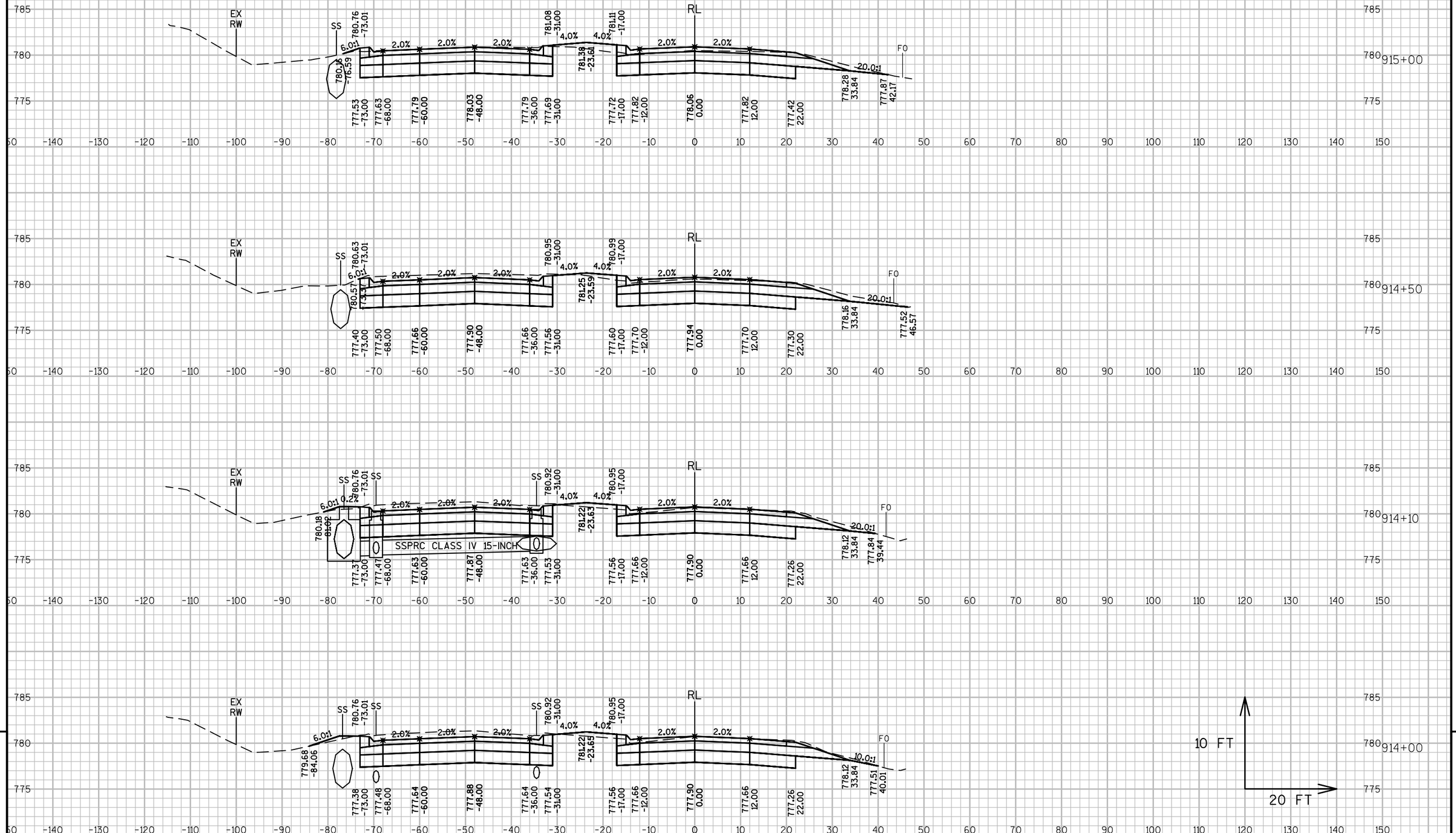
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: RECONSTRUCTION	SHEET 527	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_XS.DWG
LAYOUT NAME - 06
PLOT DATE : 8/26/2015 11:49 AM
PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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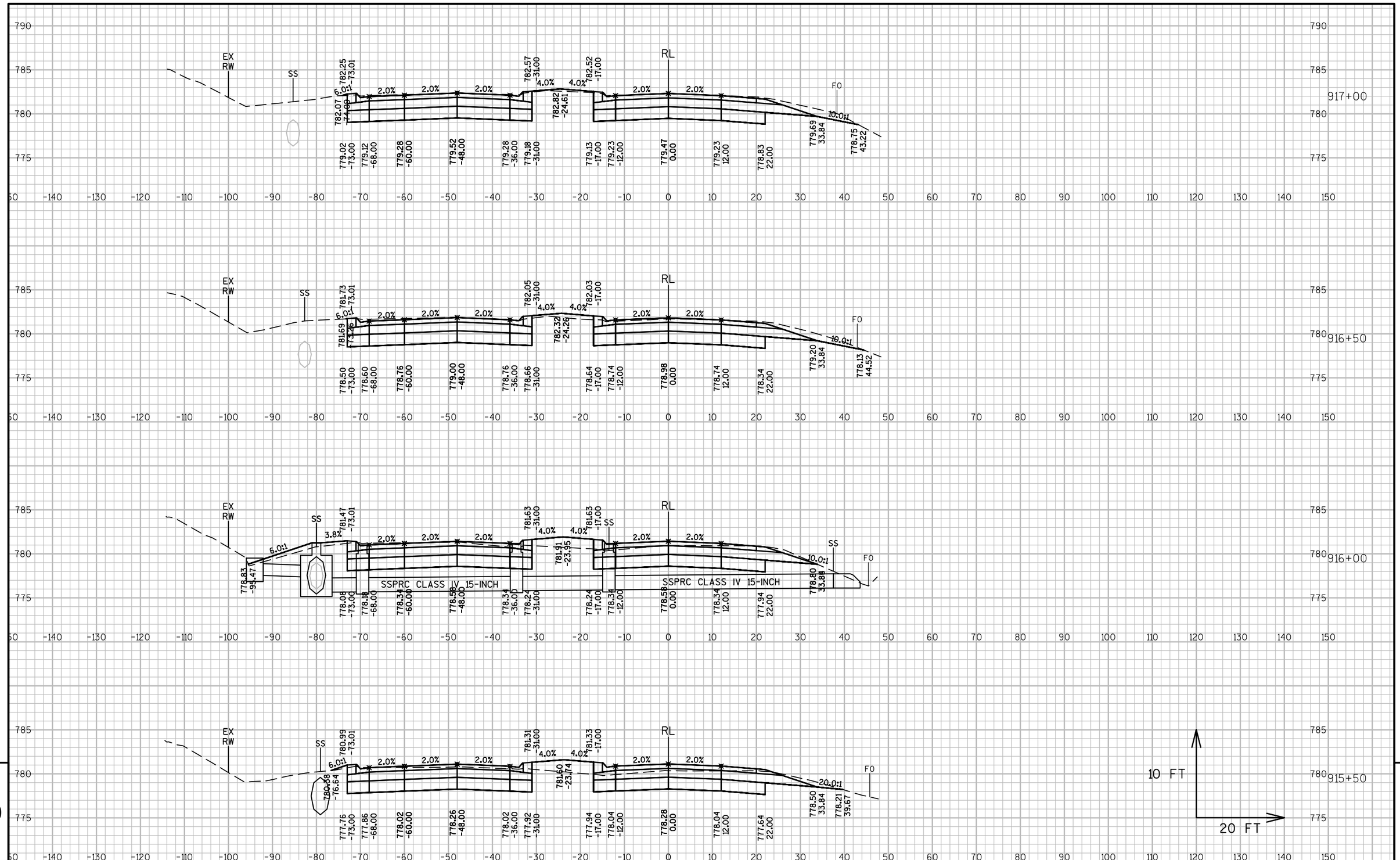
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: RECONSTRUCTION	SHEET 528	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_XS.DWG
LAYOUT NAME - 07
PLOT DATE : 8/26/2015 11:49 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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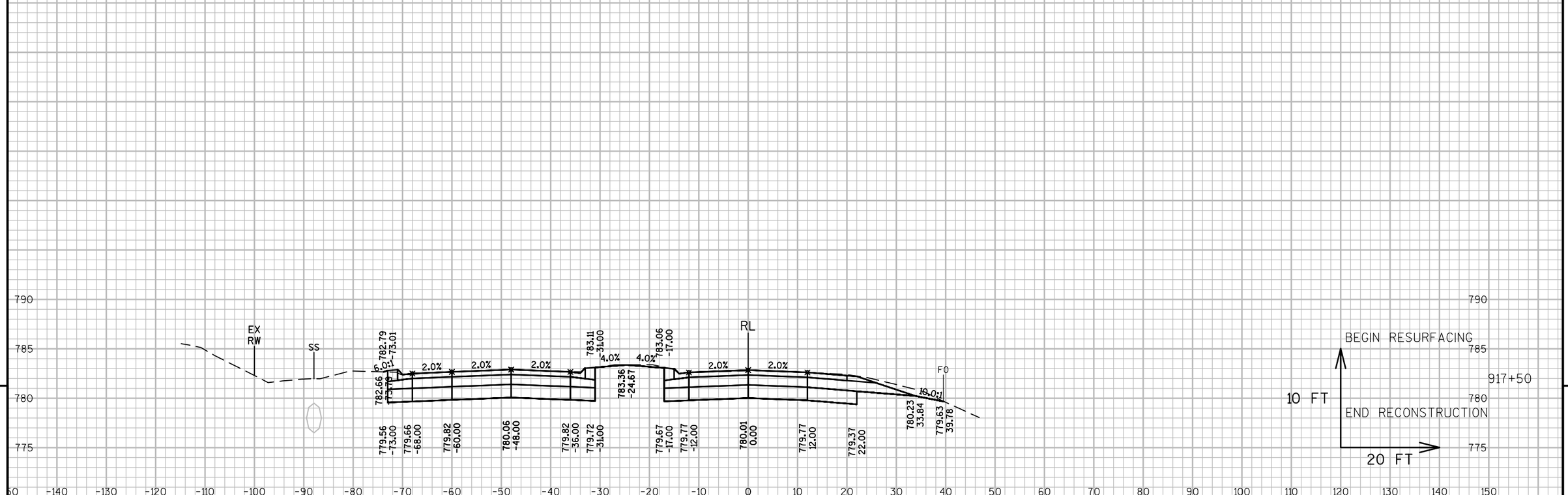
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: RECONSTRUCTION	SHEET 529	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_XS.DWG
LAYOUT NAME - 08

PLOT DATE : 8/26/2015 11:49 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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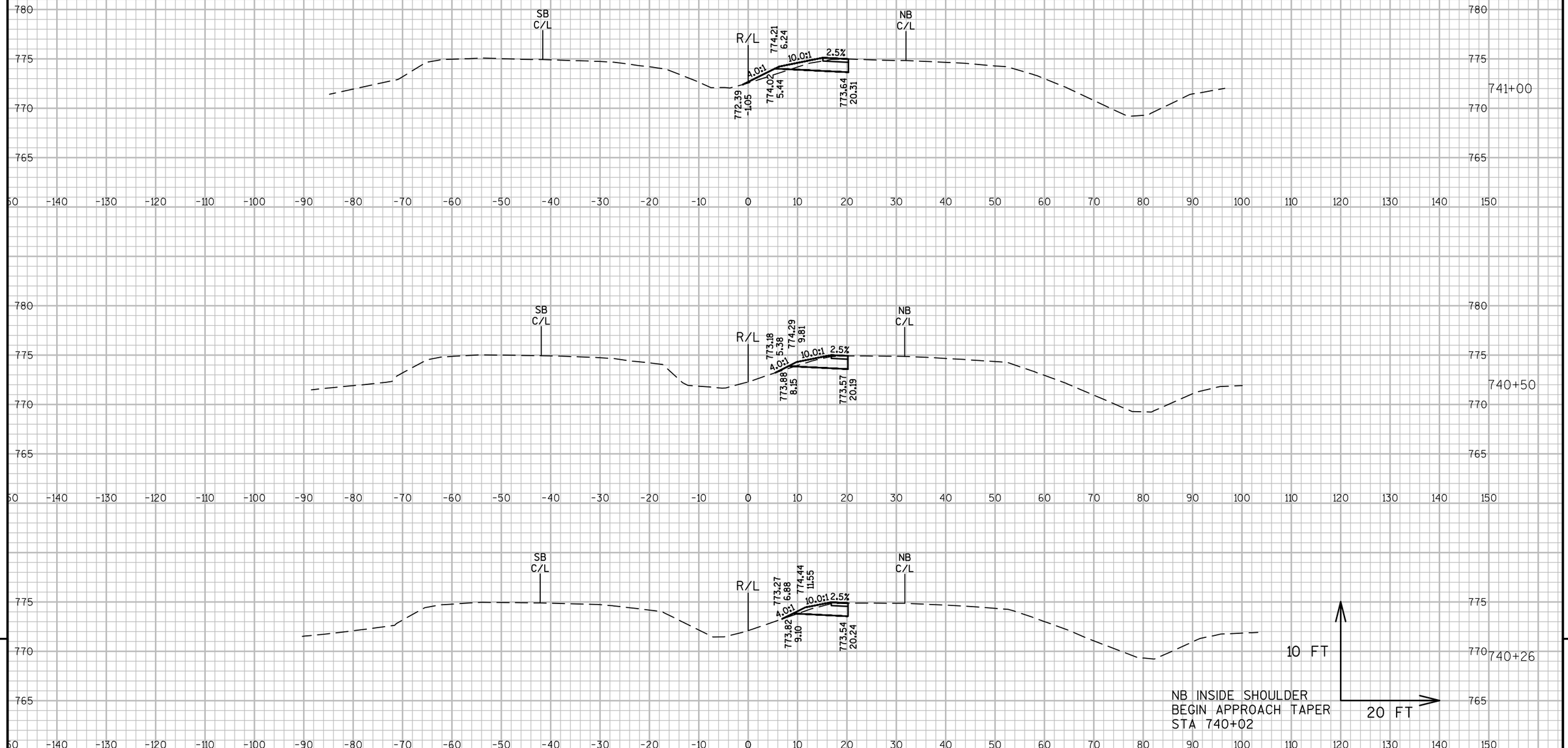
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: RECONSTRUCTION	SHEET 530	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_XS.DWG
LAYOUT NAME - 09

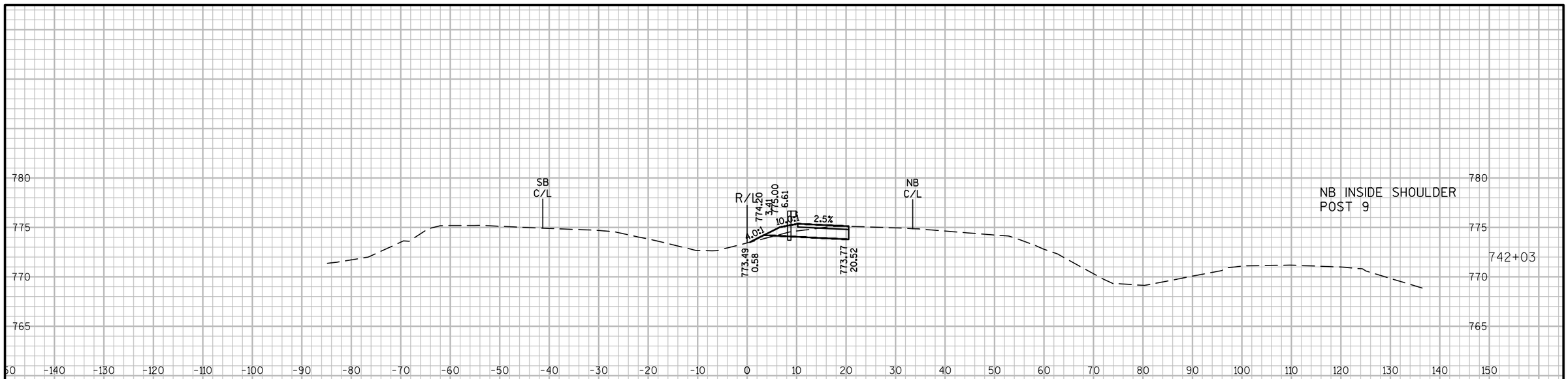
PLOT DATE : 8/26/2015 11:49 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

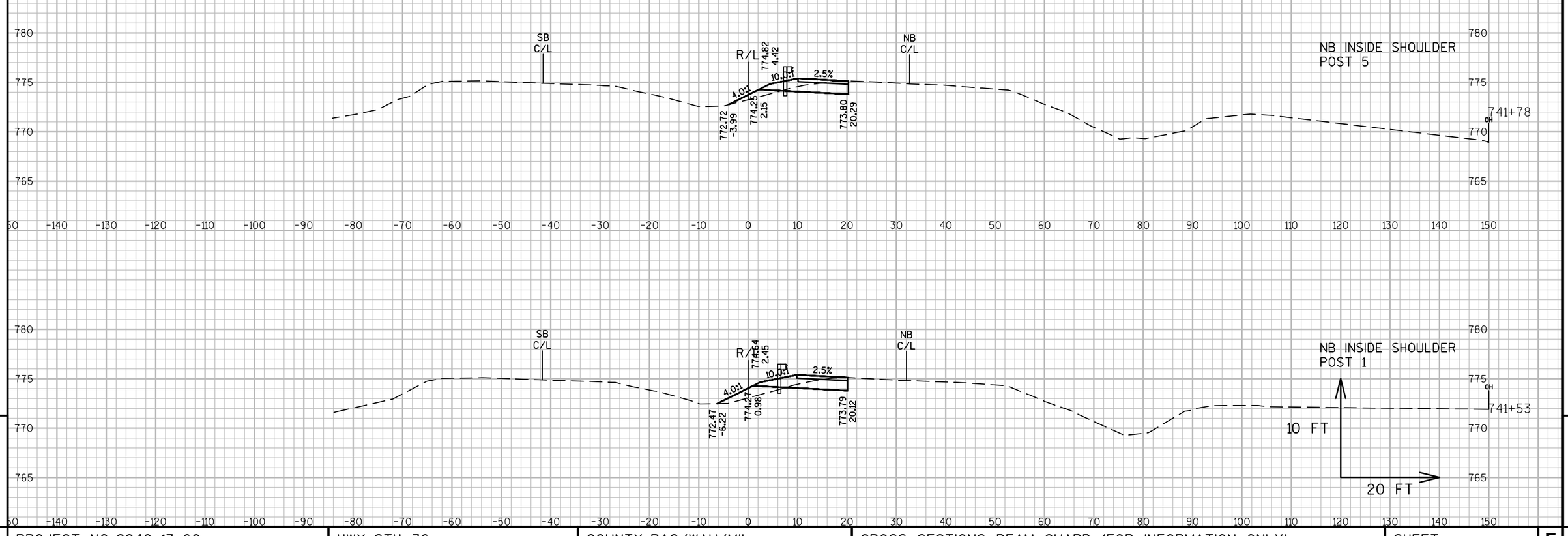


PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: BEAM GUARD (FOR INFORMATION ONLY)	SHEET 531	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_BEAMGUARD_XS.DWG
LAYOUT NAME - SECTION SHEET - (1)

PLOT DATE : 6/16/2015 3:17 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT





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PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: BEAM GUARD (FOR INFORMATION ONLY)	SHEET 532	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_BEAMGUARD_XS.DWG
LAYOUT NAME - SECTION SHEET - (2)

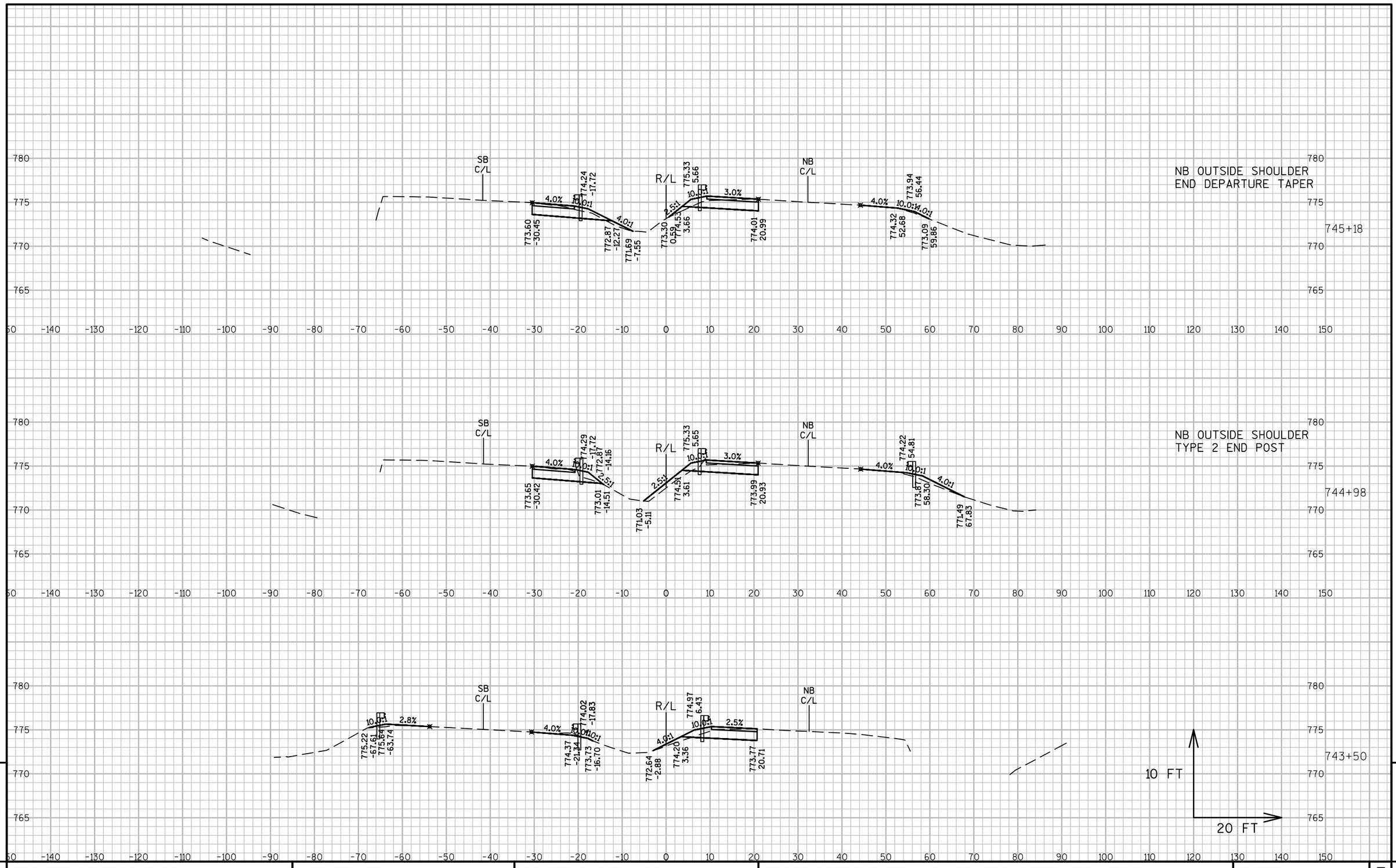
PLOT DATE : 6/16/2015 3:17 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: BEAM GUARD (FOR INFORMATION ONLY)	SHEET 533	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_BEAMGUARD_XS.DWG
LAYOUT NAME - SECTION SHEET - (3)
PLOT DATE : 6/16/2015 3:18 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: BEAM GUARD (FOR INFORMATION ONLY)	SHEET 534	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_BEAMGUARD_XS.DWG
LAYOUT NAME - SECTION SHEET - (4)
PLOT DATE : 6/16/2015 3:18 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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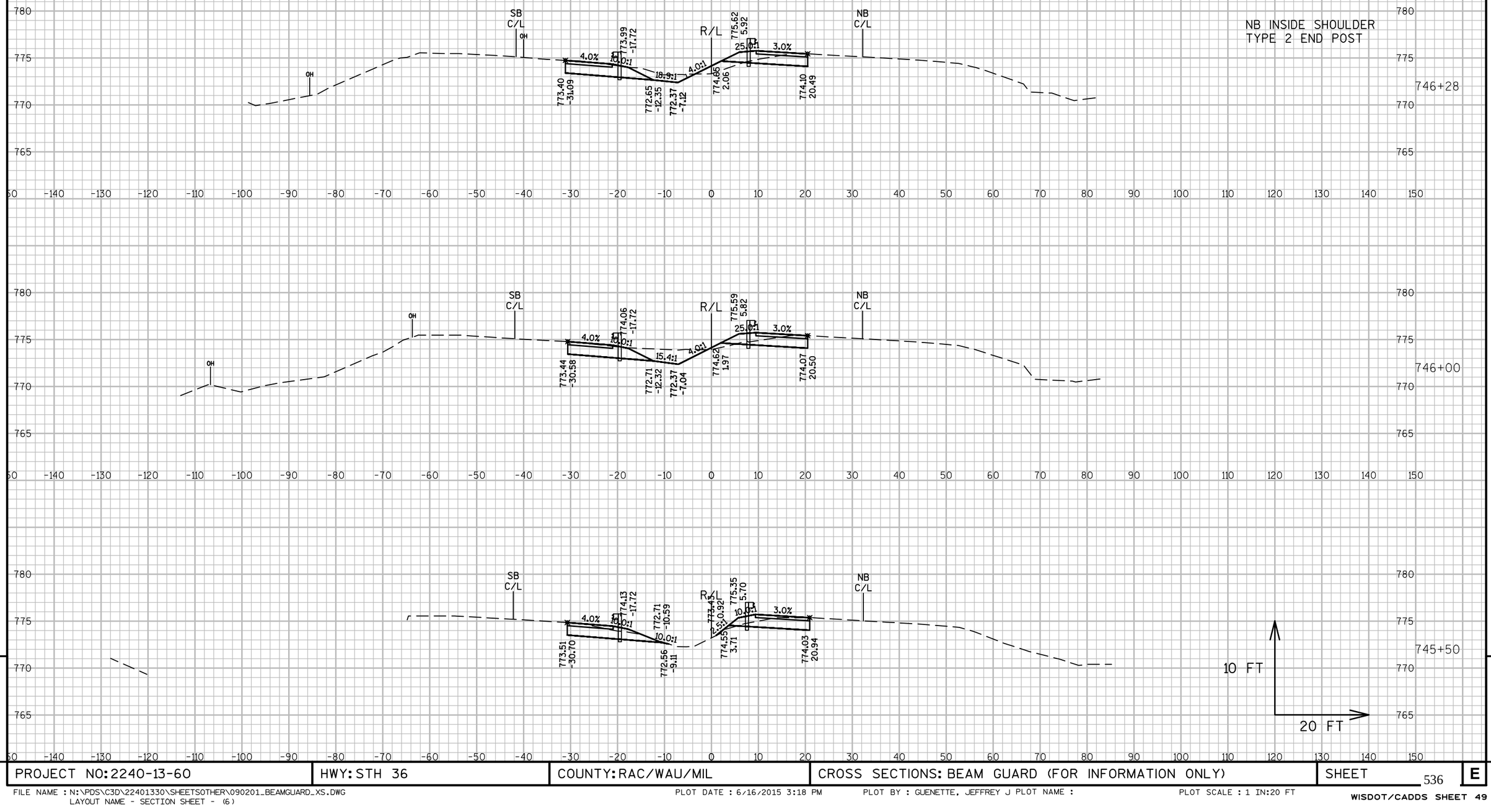
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: BEAM GUARD (FOR INFORMATION ONLY)	SHEET 535	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_BEAMGUARD_XS.DWG
LAYOUT NAME - SECTION SHEET - (5)

PLOT DATE : 6/16/2015 3:18 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

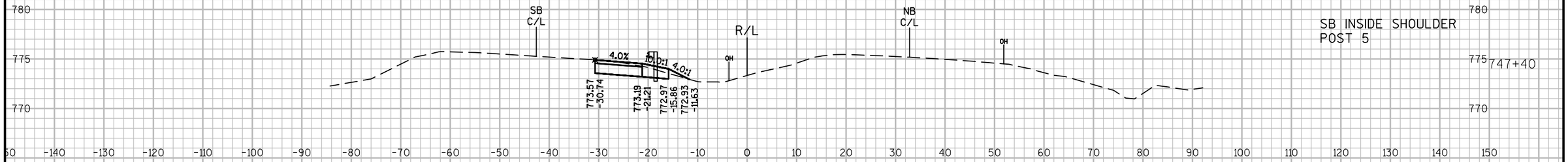


9

9

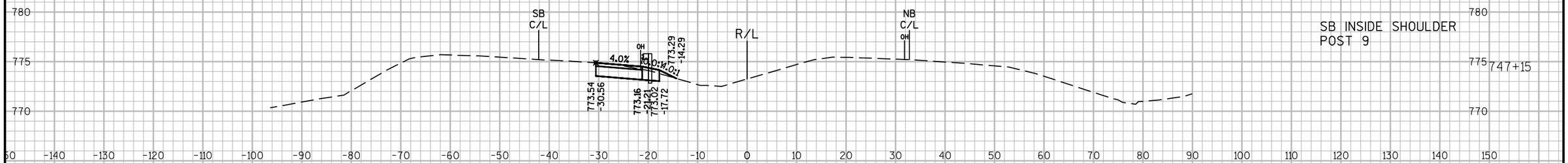
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: BEAM GUARD (FOR INFORMATION ONLY)	SHEET 536	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_BEAMGUARD_XS.DWG
LAYOUT NAME - SECTION SHEET - (6)
PLOT DATE : 6/16/2015 3:18 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



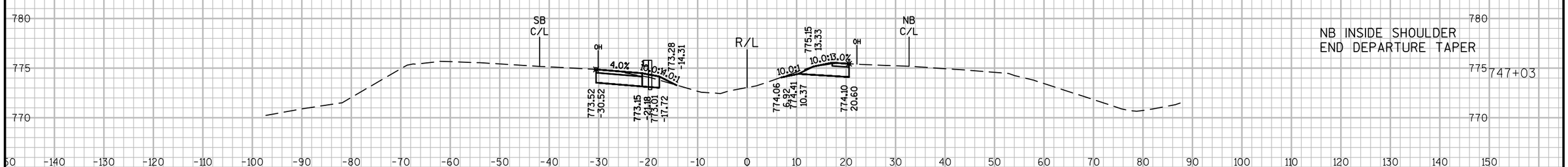
SB INSIDE SHOULDER
POST 5

747+40



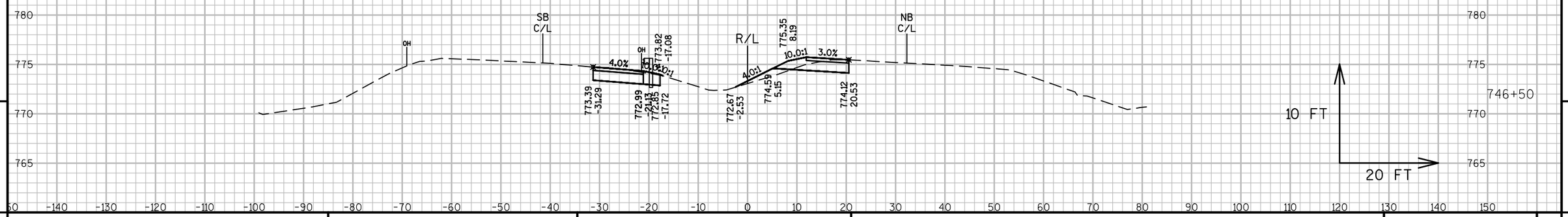
SB INSIDE SHOULDER
POST 9

747+15



NB INSIDE SHOULDER
END DEPARTURE TAPER

747+03



746+50

10 FT

20 FT

9

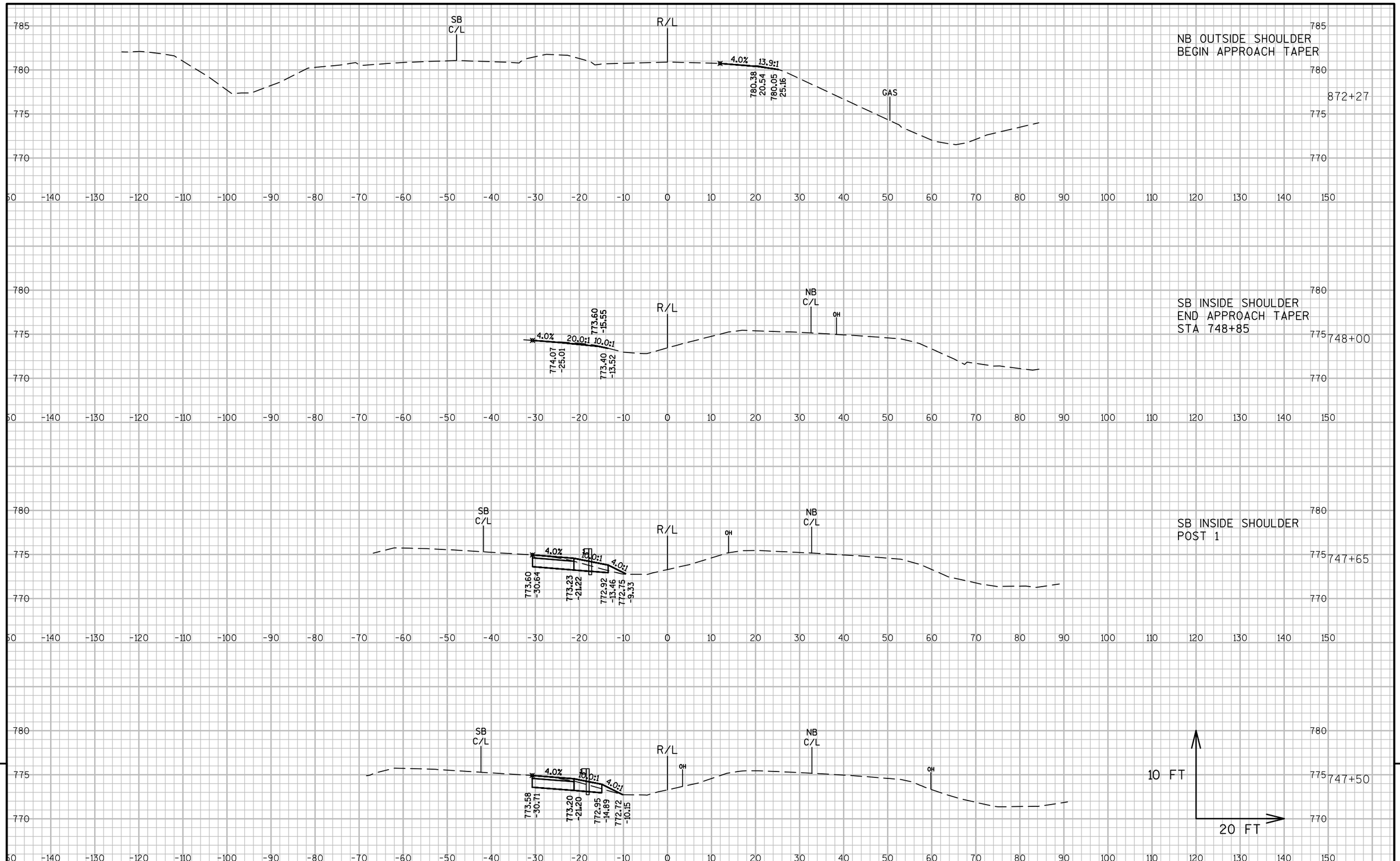
9

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: BEAM GUARD (FOR INFORMATION ONLY)	SHEET 537	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_BEAMGUARD_XS.DWG
LAYOUT NAME - SECTION SHEET - (7)

PLOT DATE : 6/16/2015 3:18 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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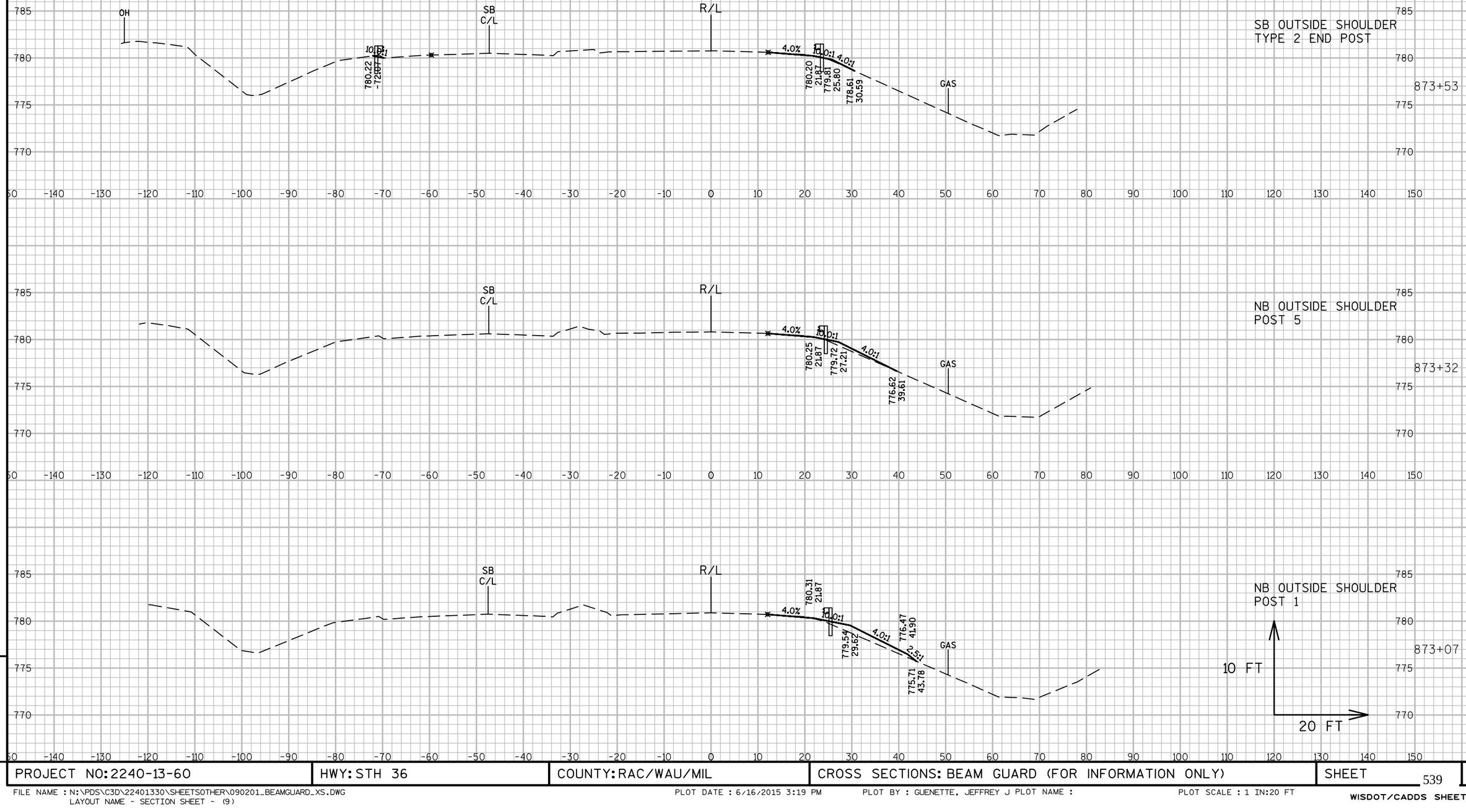
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: BEAM GUARD (FOR INFORMATION ONLY)	SHEET 538	E

9

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_BEAMGUARD_XS.DWG
LAYOUT NAME - SECTION SHEET - (8)

PLOT DATE : 6/16/2015 3:19 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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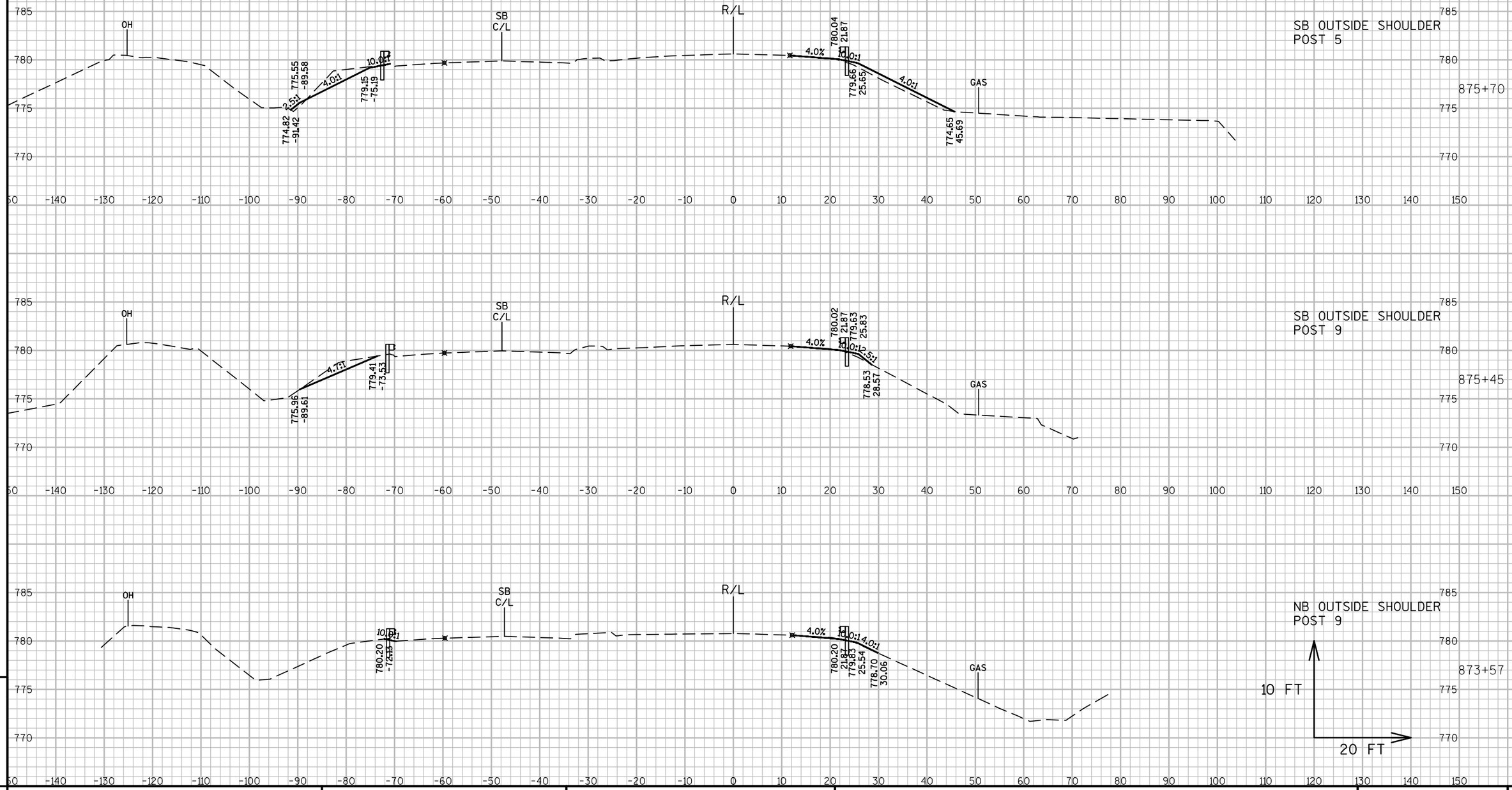
9

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: BEAM GUARD (FOR INFORMATION ONLY)	SHEET 539	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_BEAMGUARD_XS.DWG
LAYOUT NAME - SECTION SHEET - (9)
PLOT DATE : 6/16/2015 3:19 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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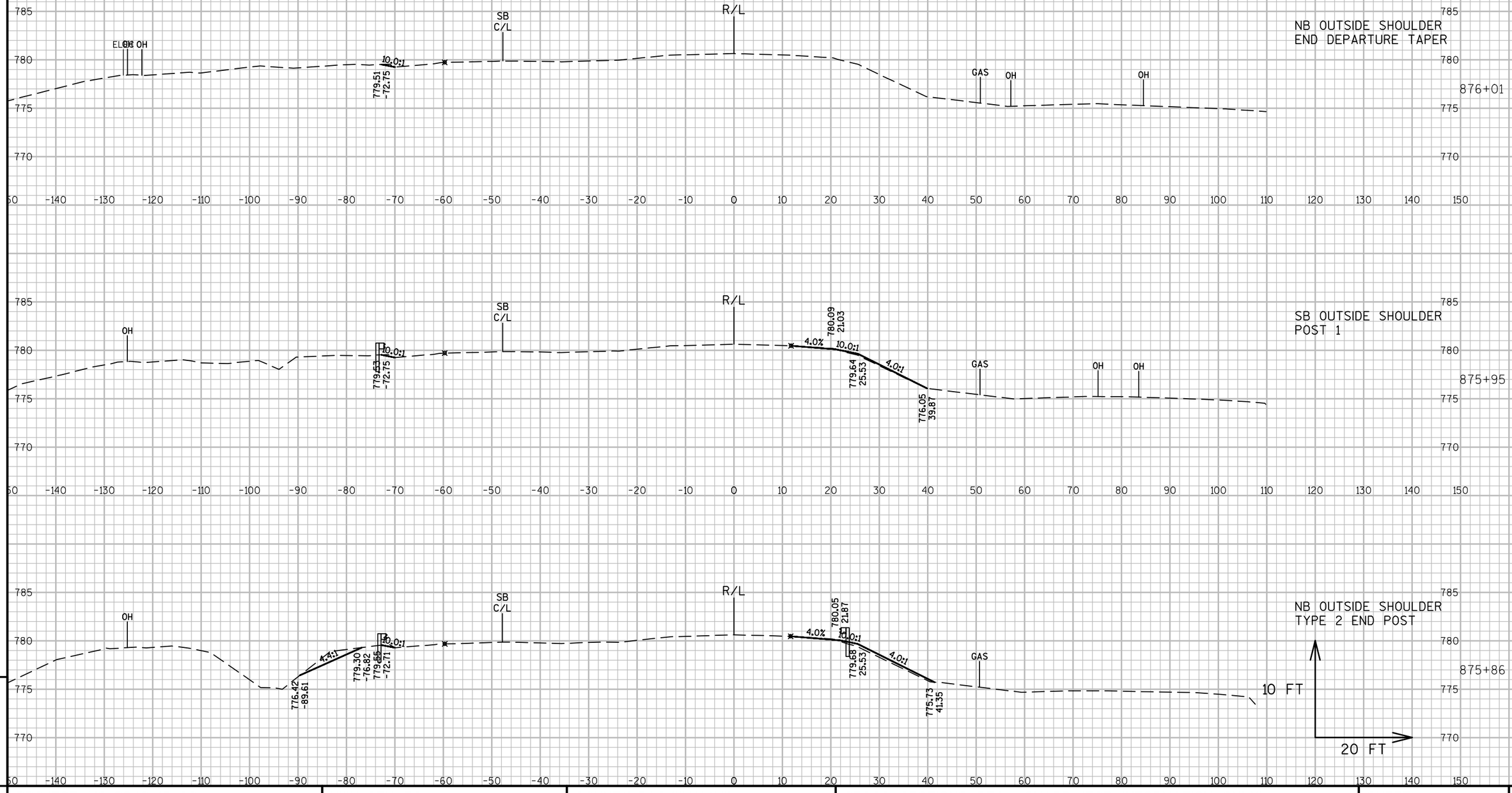
9

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: BEAM GUARD (FOR INFORMATION ONLY)	SHEET 540	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_BEAMGUARD_XS.DWG
LAYOUT NAME - SECTION SHEET - (10)
PLOT DATE : 6/16/2015 3:19 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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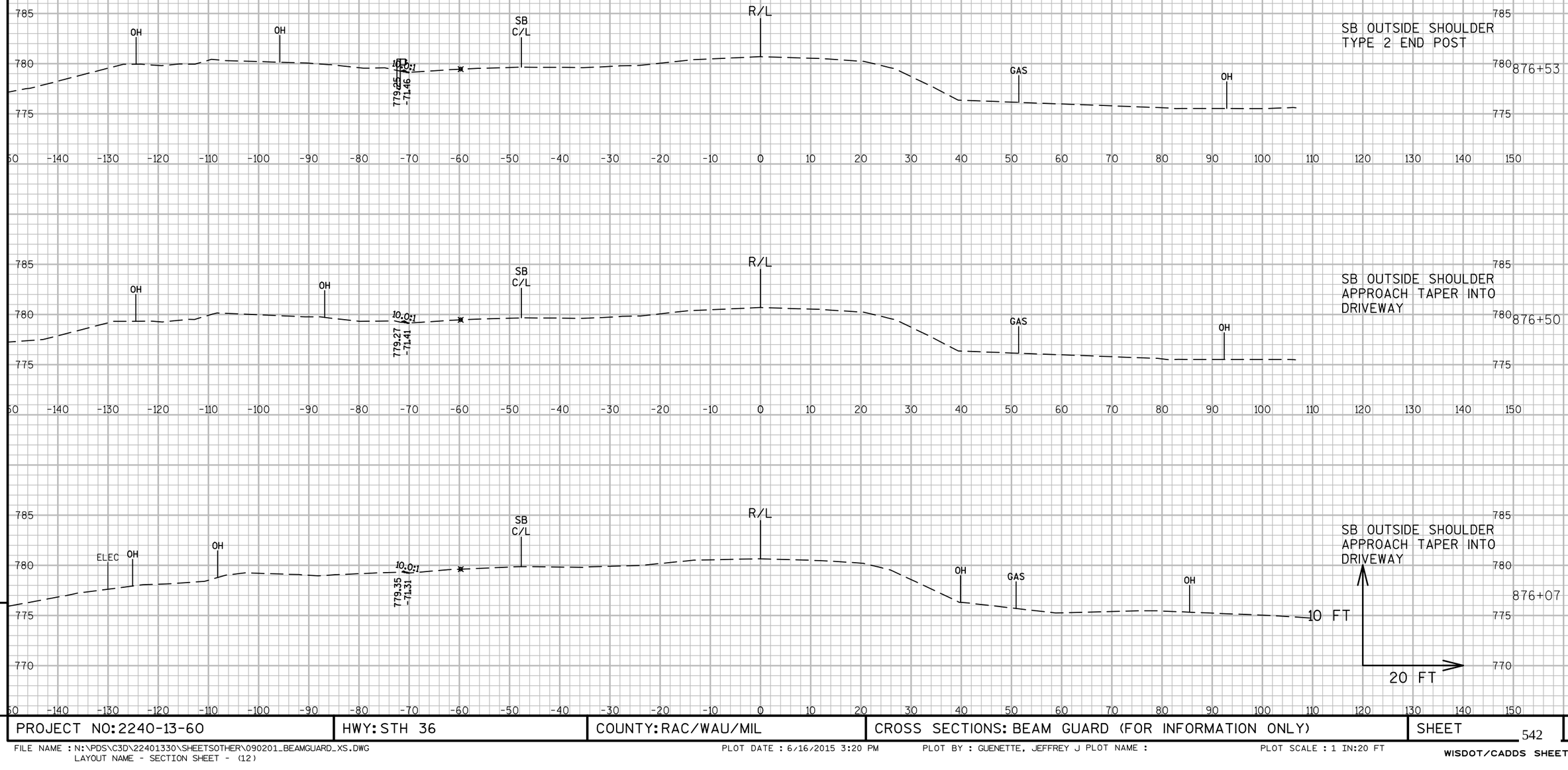
9

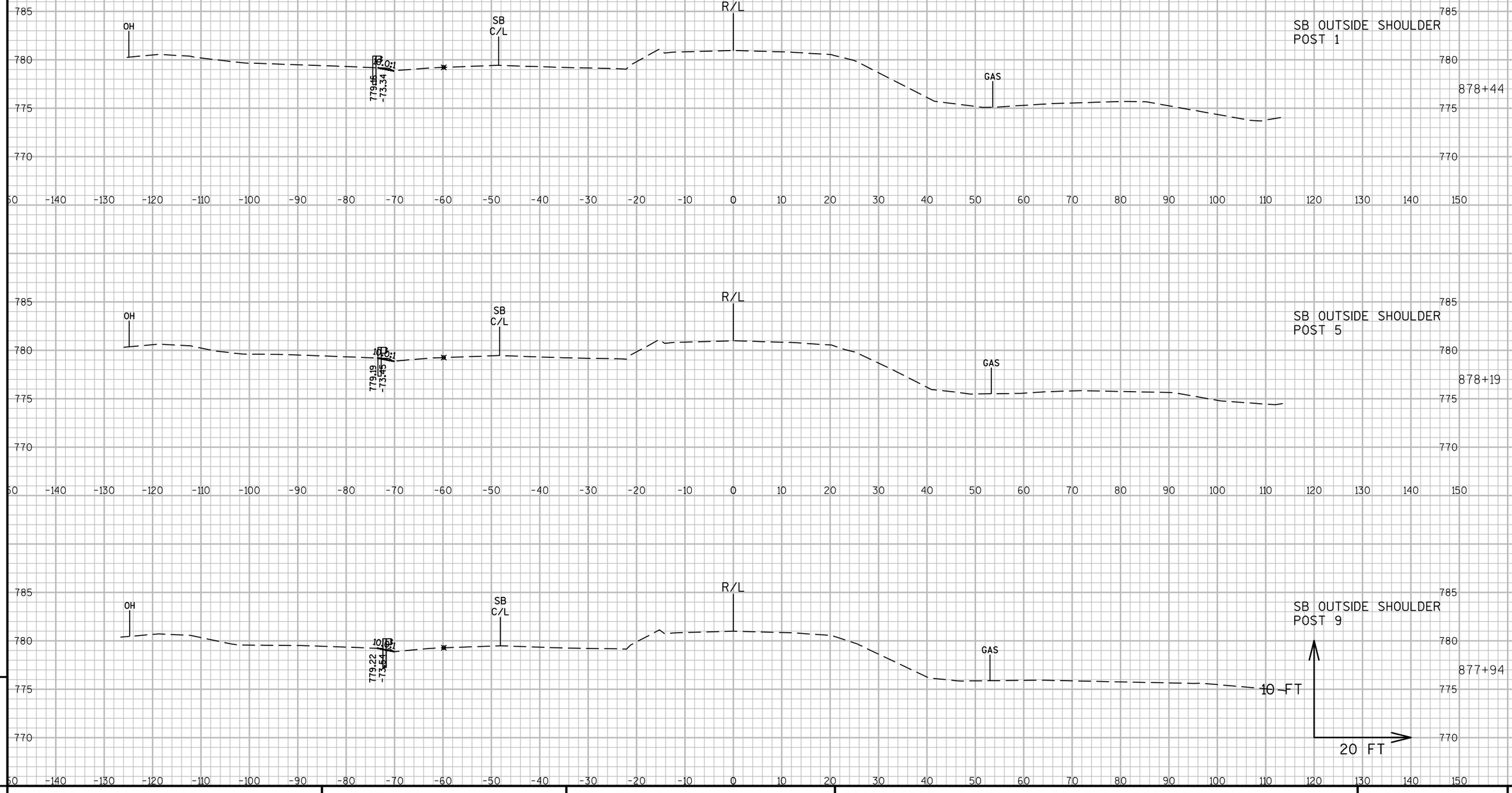
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: BEAM GUARD (FOR INFORMATION ONLY)	SHEET 541	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_BEAMGUARD_XS.DWG
LAYOUT NAME - SECTION SHEET - (11)
PLOT DATE : 6/16/2015 3:19 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: BEAM GUARD (FOR INFORMATION ONLY)	SHEET 542	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_BEAMGUARD_XS.DWG
LAYOUT NAME - SECTION SHEET - (12)
PLOT DATE : 6/16/2015 3:20 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: BEAM GUARD (FOR INFORMATION ONLY)	SHEET 543	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_BEAMGUARD_XS.DWG
LAYOUT NAME - SECTION SHEET - (13)
PLOT DATE : 6/16/2015 3:20 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

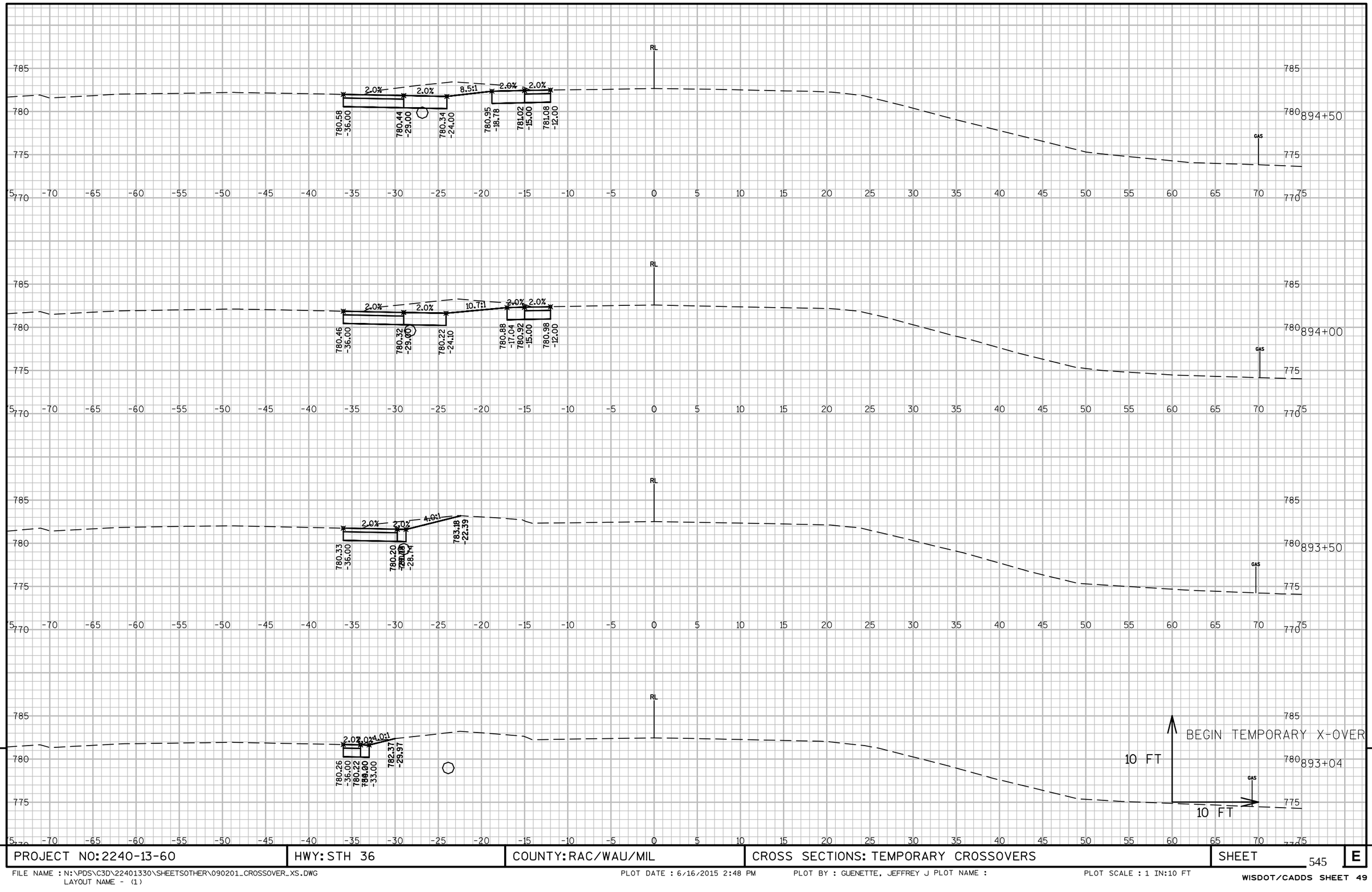
9

9

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: BEAM GUARD (FOR INFORMATION ONLY)	SHEET 544	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_BEAMGUARD_XS.DWG
LAYOUT NAME - SECTION SHEET - (14)

PLOT DATE : 6/16/2015 3:20 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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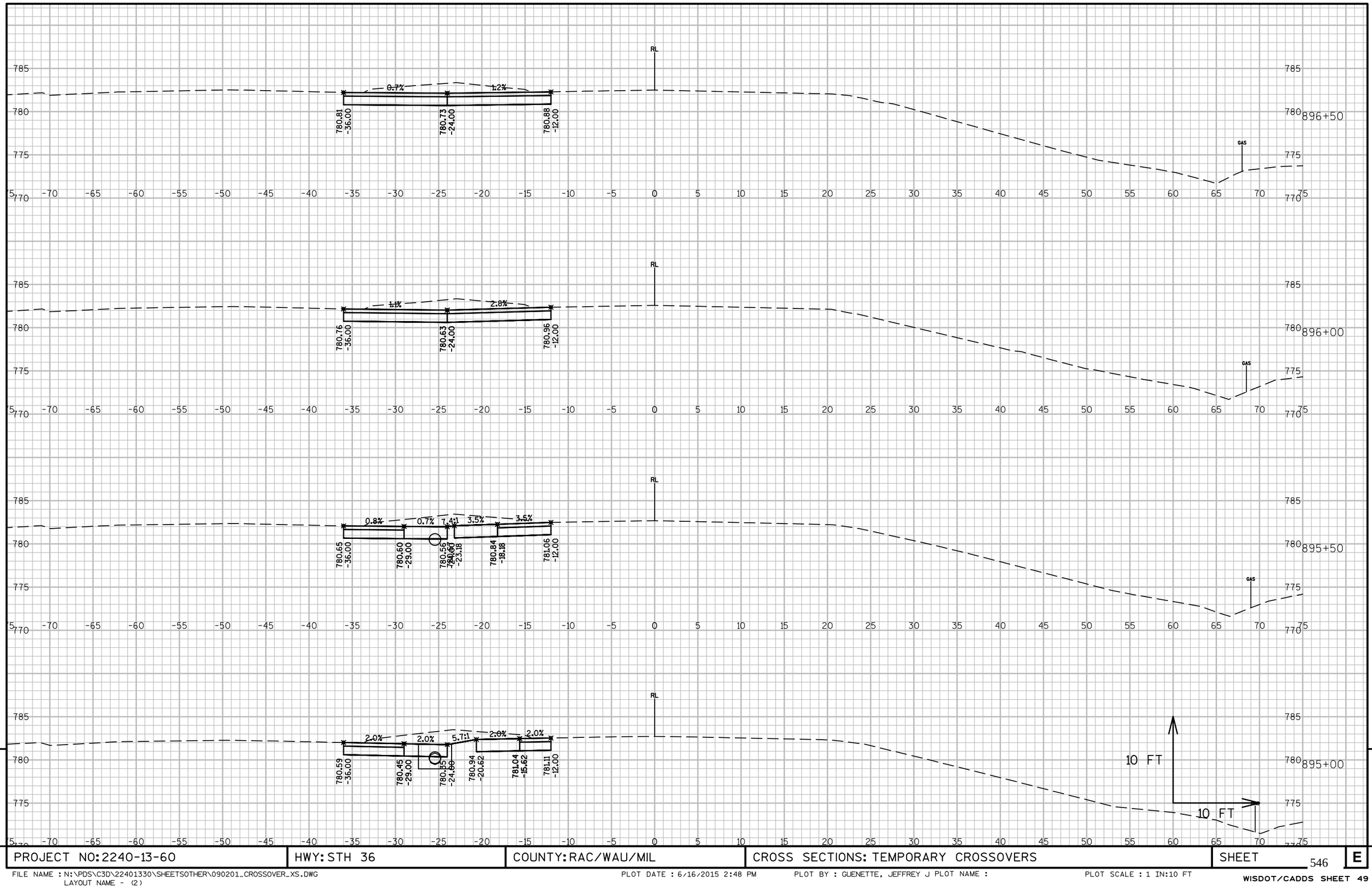
9

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: TEMPORARY CROSSOVERS	SHEET 545	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_CROSSOVER_XS.DWG
LAYOUT NAME - (1)
PLOT DATE : 6/16/2015 2:48 PM
PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

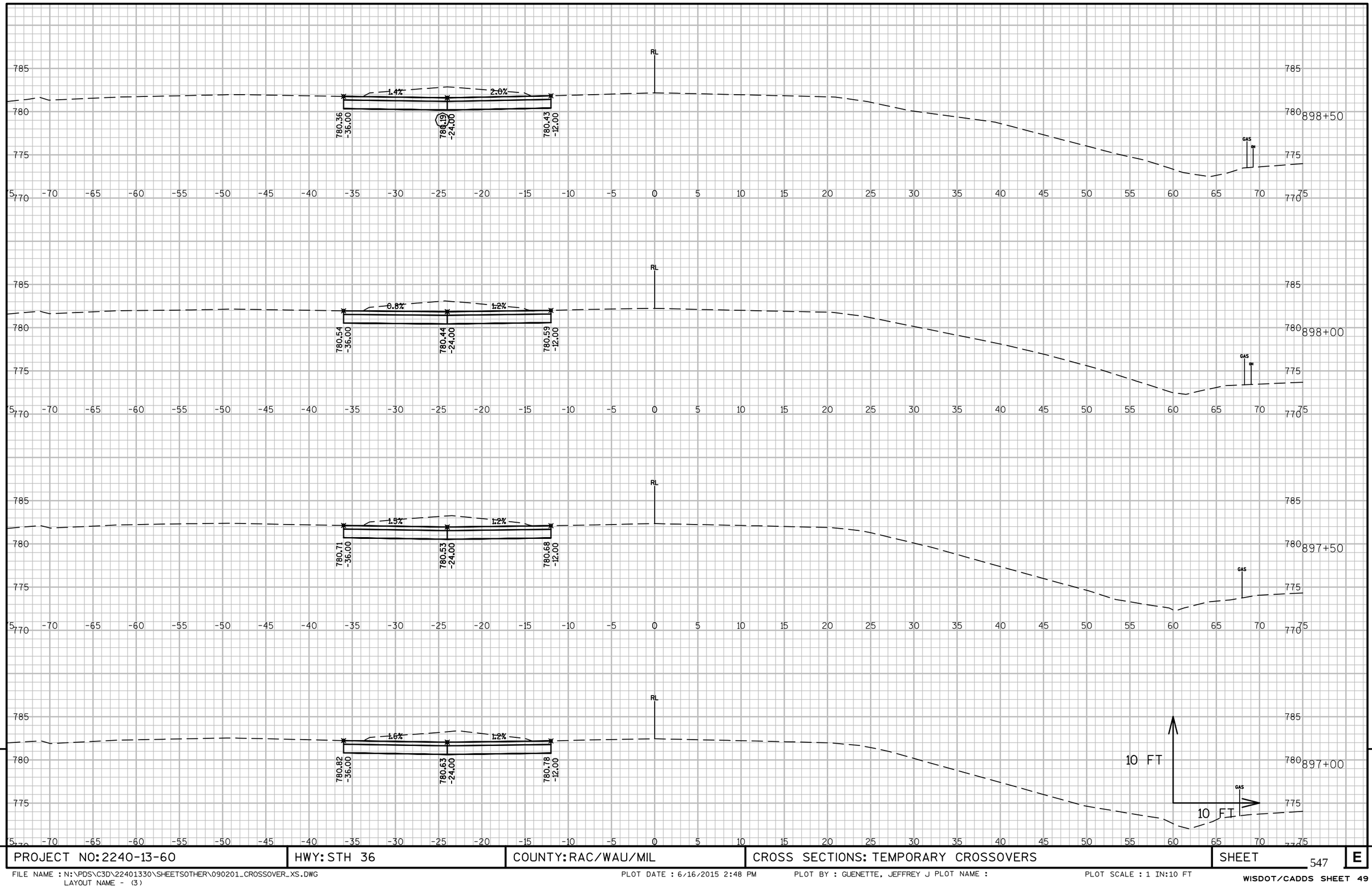


PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: TEMPORARY CROSSOVERS	SHEET 546	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_CROSSOVER_XS.DWG
LAYOUT NAME - (2)

PLOT DATE : 6/16/2015 2:48 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

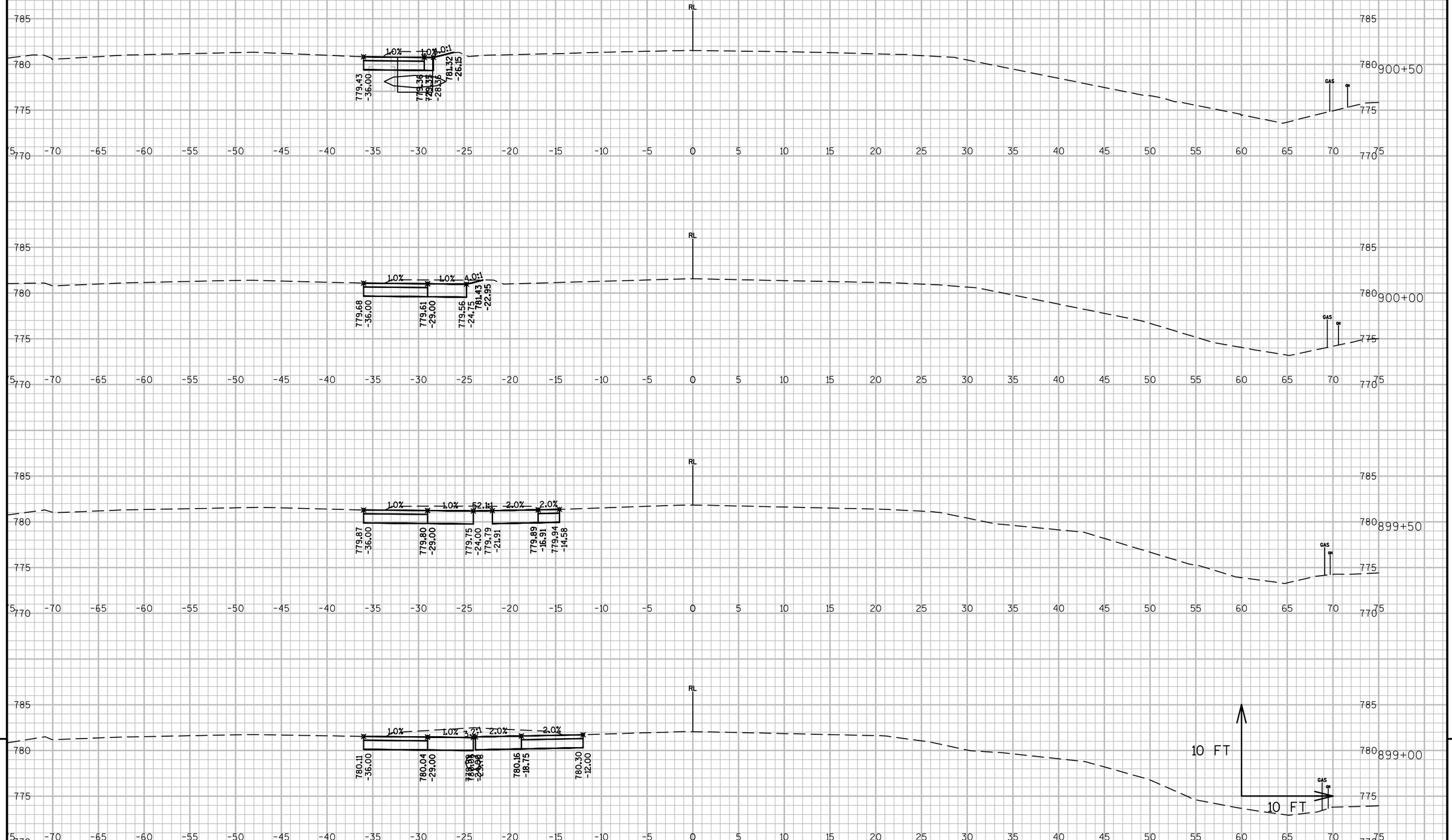


9

9

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: TEMPORARY CROSSOVERS	SHEET 547	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_CROSSOVER_XS.DWG
LAYOUT NAME - (3)
PLOT DATE : 6/16/2015 2:48 PM
PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

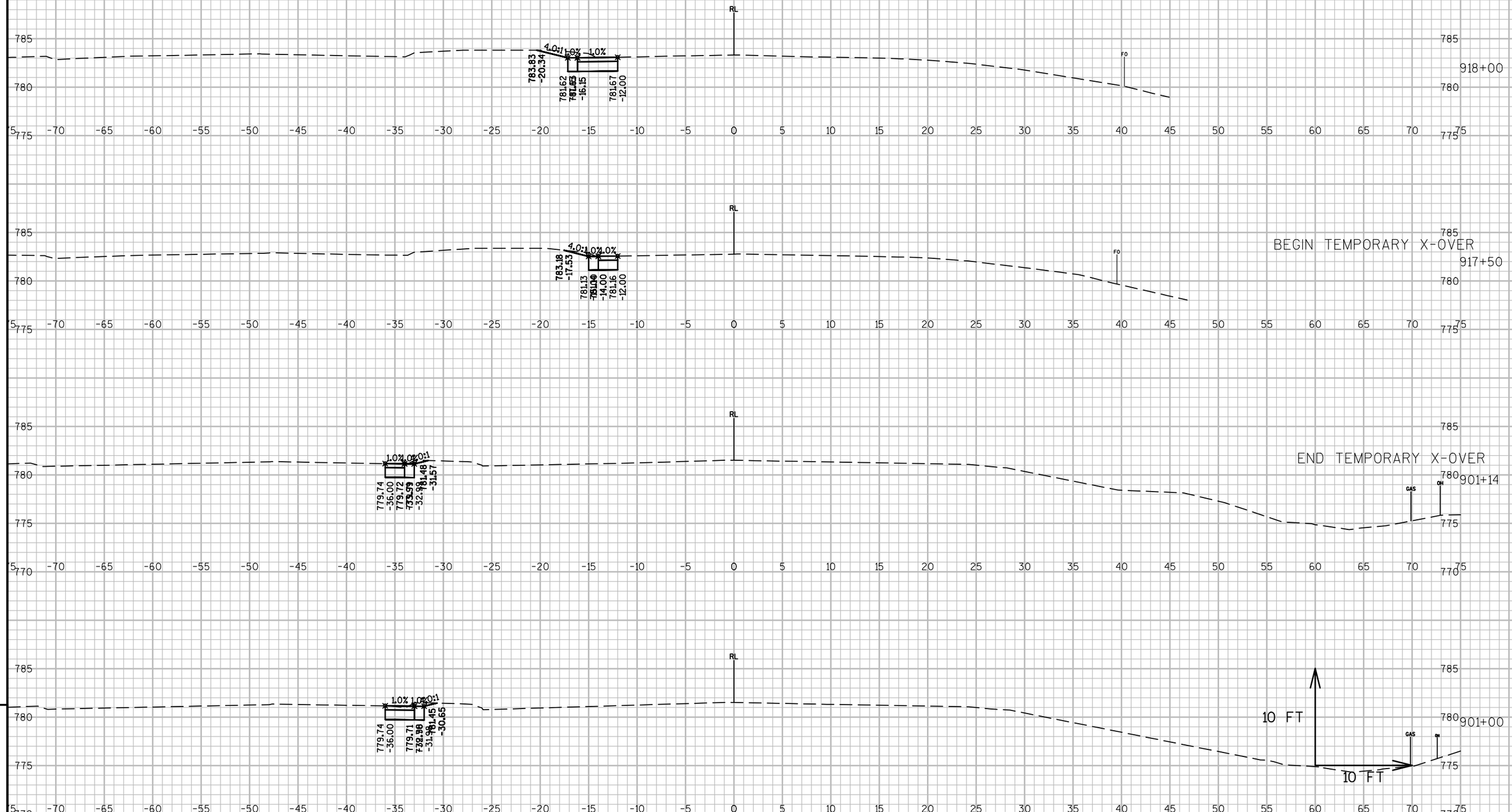
9

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: TEMPORARY CROSSOVERS	SHEET 548	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_CROSSOVER_XS.DWG
LAYOUT NAME - (4)

PLOT DATE : 6/16/2015 2:48 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

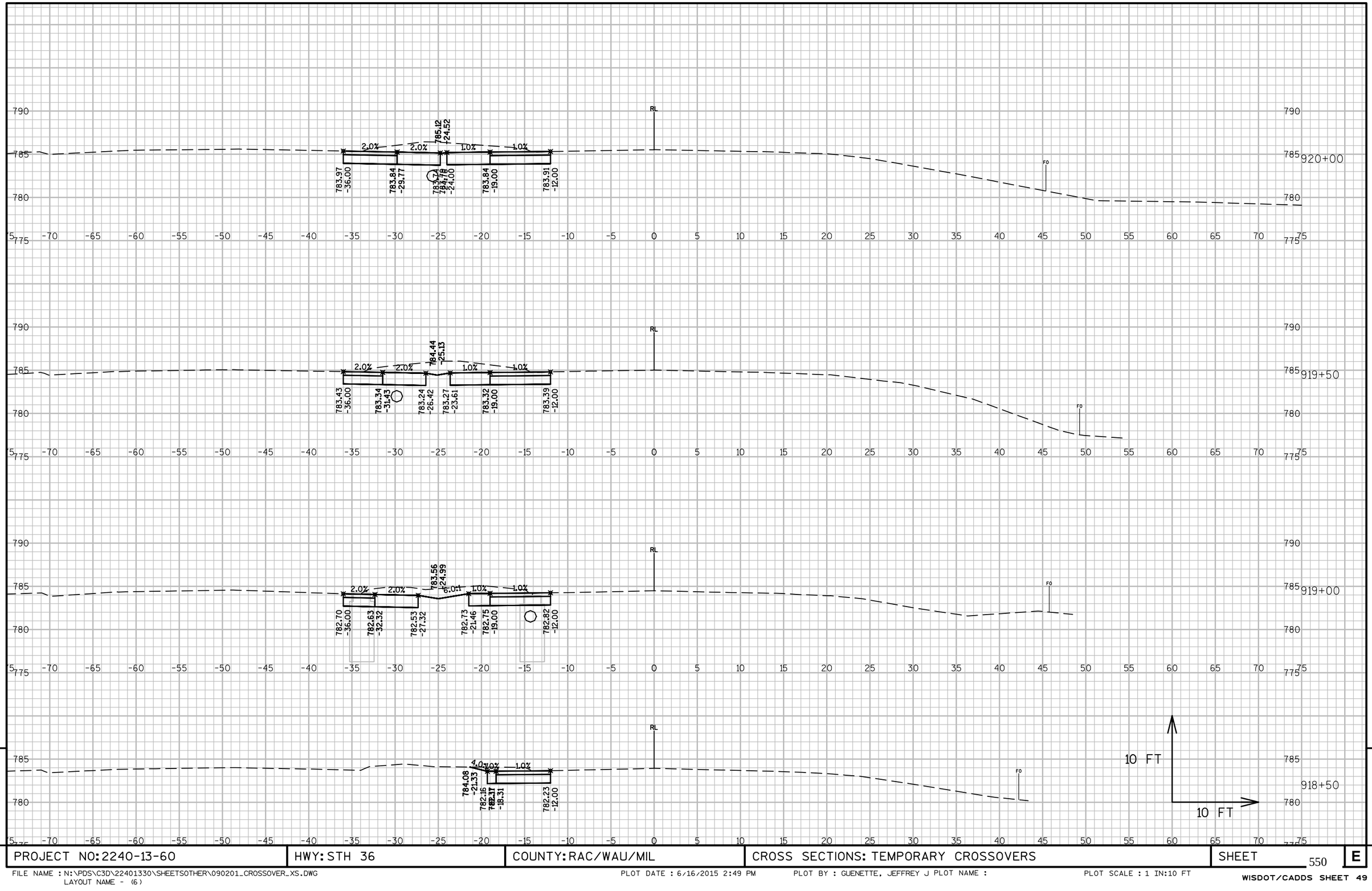


PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: TEMPORARY CROSSOVERS	SHEET 549	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_CROSSOVER_XS.DWG
LAYOUT NAME - (5)

PLOT DATE : 6/16/2015 2:48 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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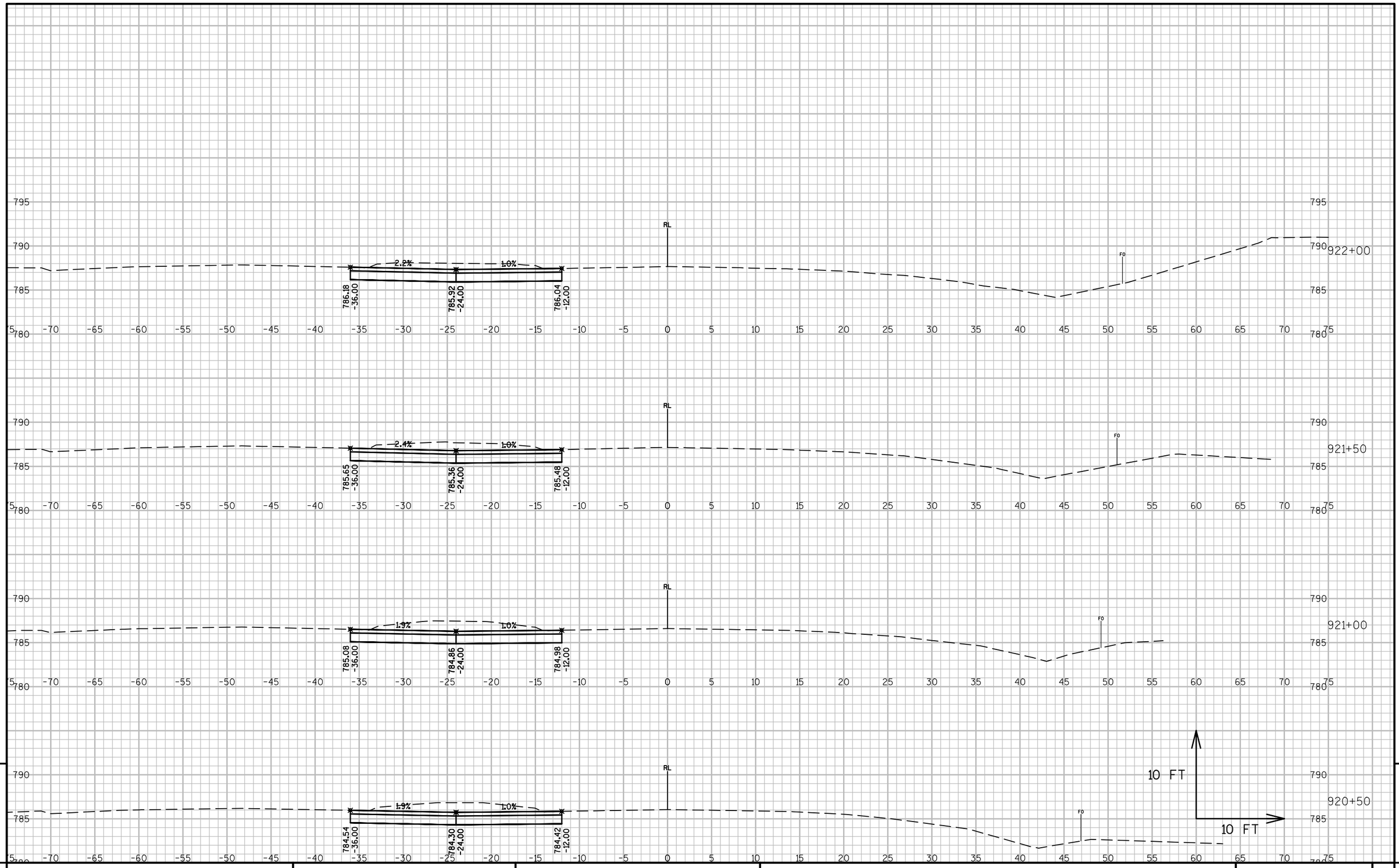
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: TEMPORARY CROSSOVERS	SHEET 550	E

9

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_CROSSOVER_XS.DWG
LAYOUT NAME - (6)

PLOT DATE : 6/16/2015 2:49 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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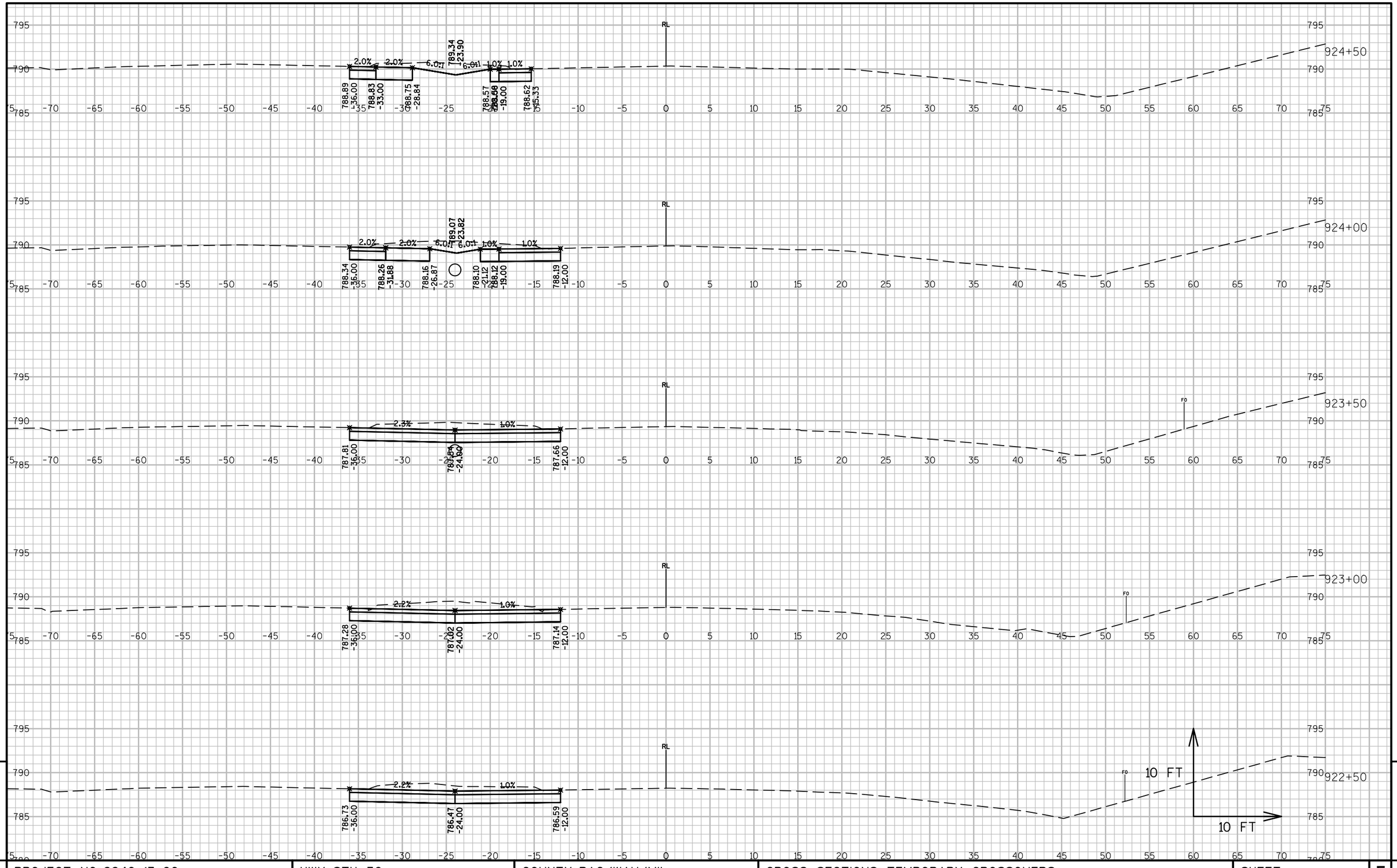
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: TEMPORARY CROSSOVERS	SHEET 551	E

9

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_CROSSOVER_XS.DWG
LAYOUT NAME - (7)

PLOT DATE : 6/16/2015 2:49 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

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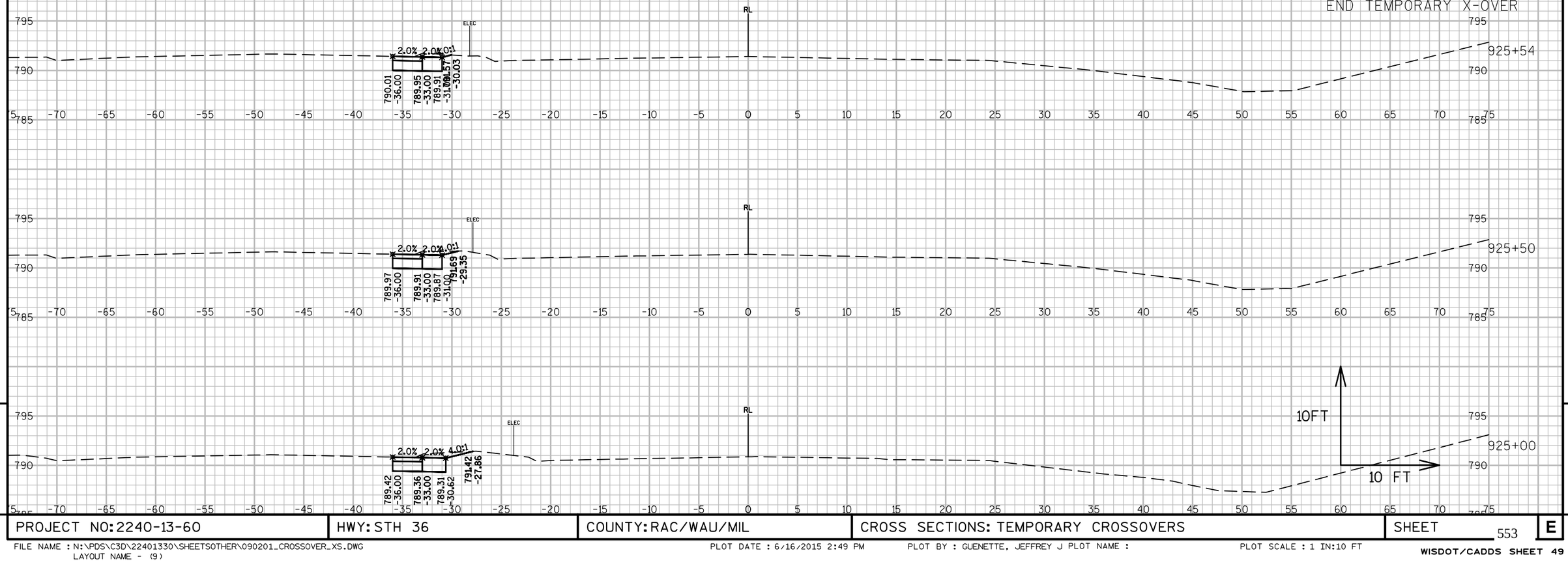
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: TEMPORARY CROSSOVERS	SHEET 552	E

END TEMPORARY X-OVER



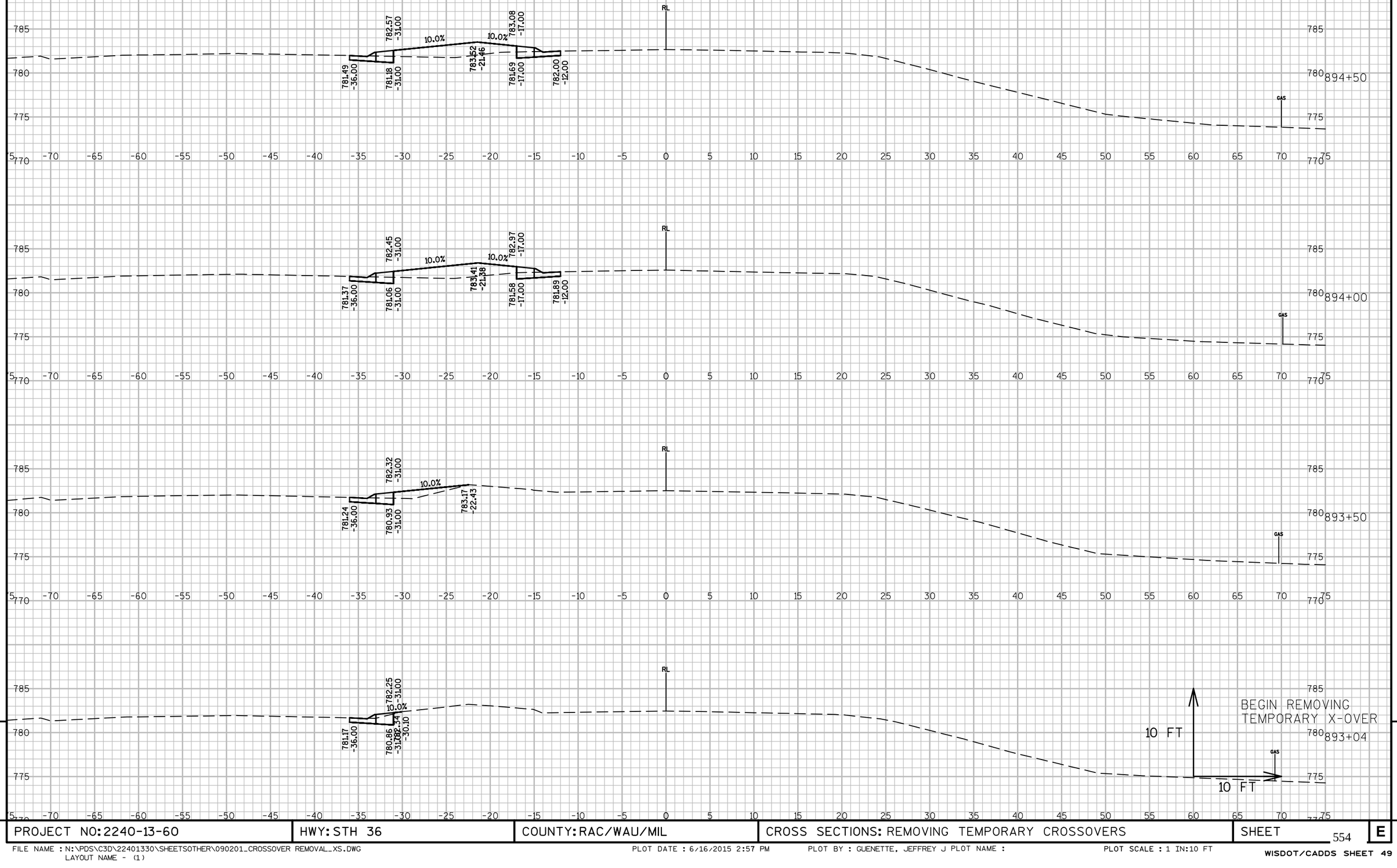
9

9

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: TEMPORARY CROSSOVERS	SHEET 553	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_CROSSOVER_XS.DWG
LAYOUT NAME - (9)

PLOT DATE : 6/16/2015 2:49 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT



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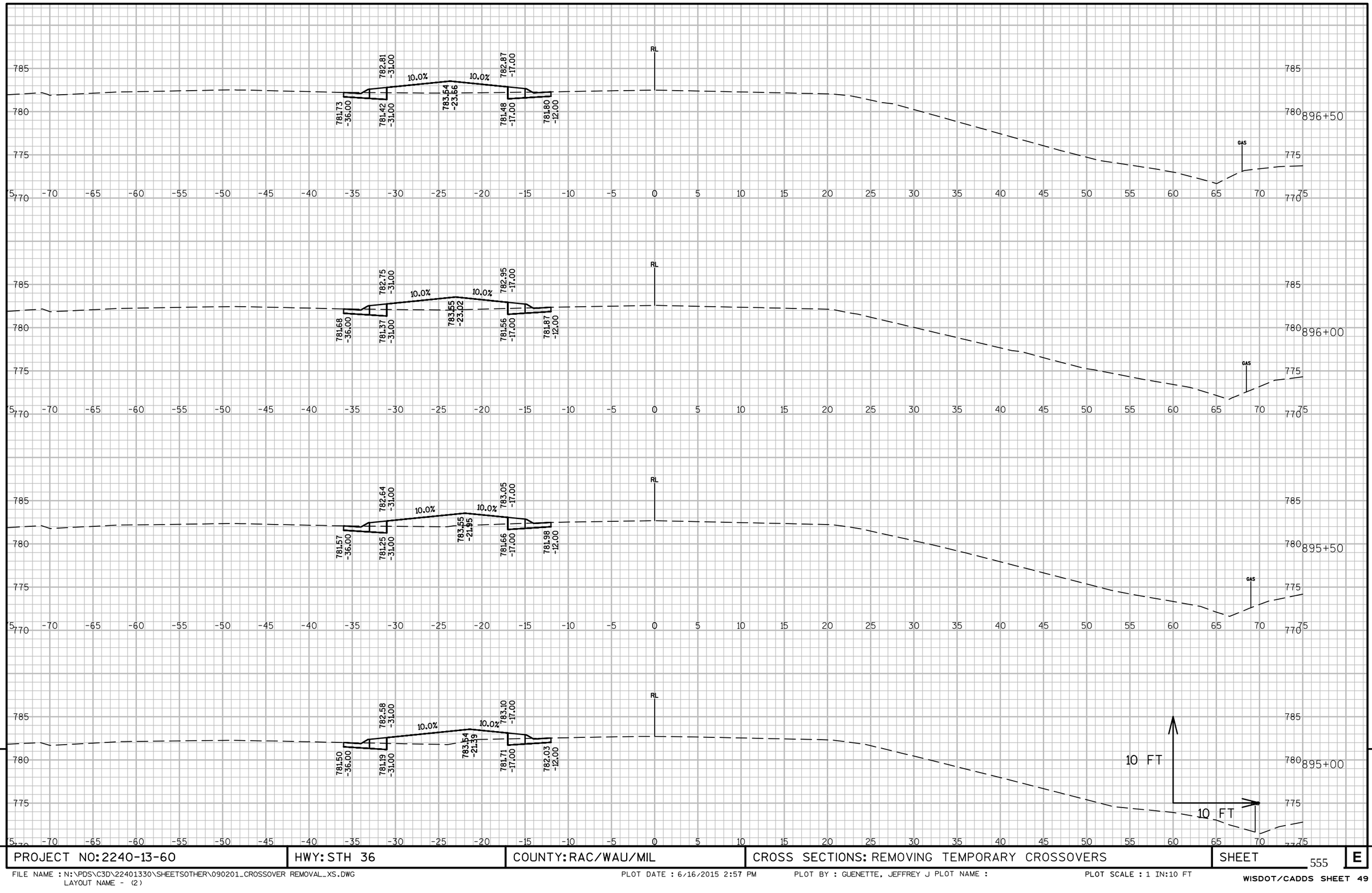
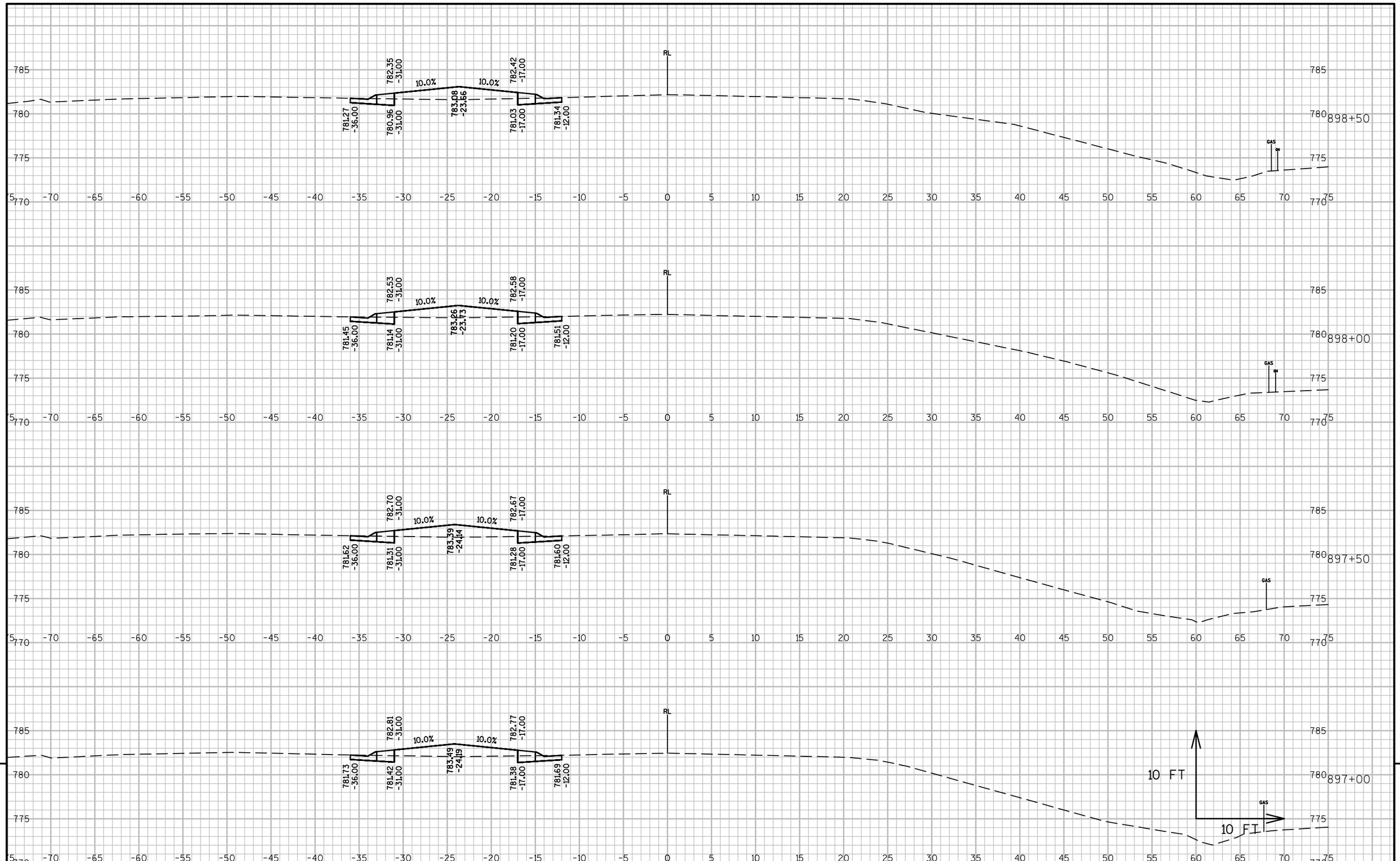
9

PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: REMOVING TEMPORARY CROSSOVERS	SHEET 554	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_CROSSOVER REMOVAL_XS.DWG
LAYOUT NAME - (1)
PLOT DATE : 6/16/2015 2:57 PM
PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: REMOVING TEMPORARY CROSSOVERS	SHEET 555	E



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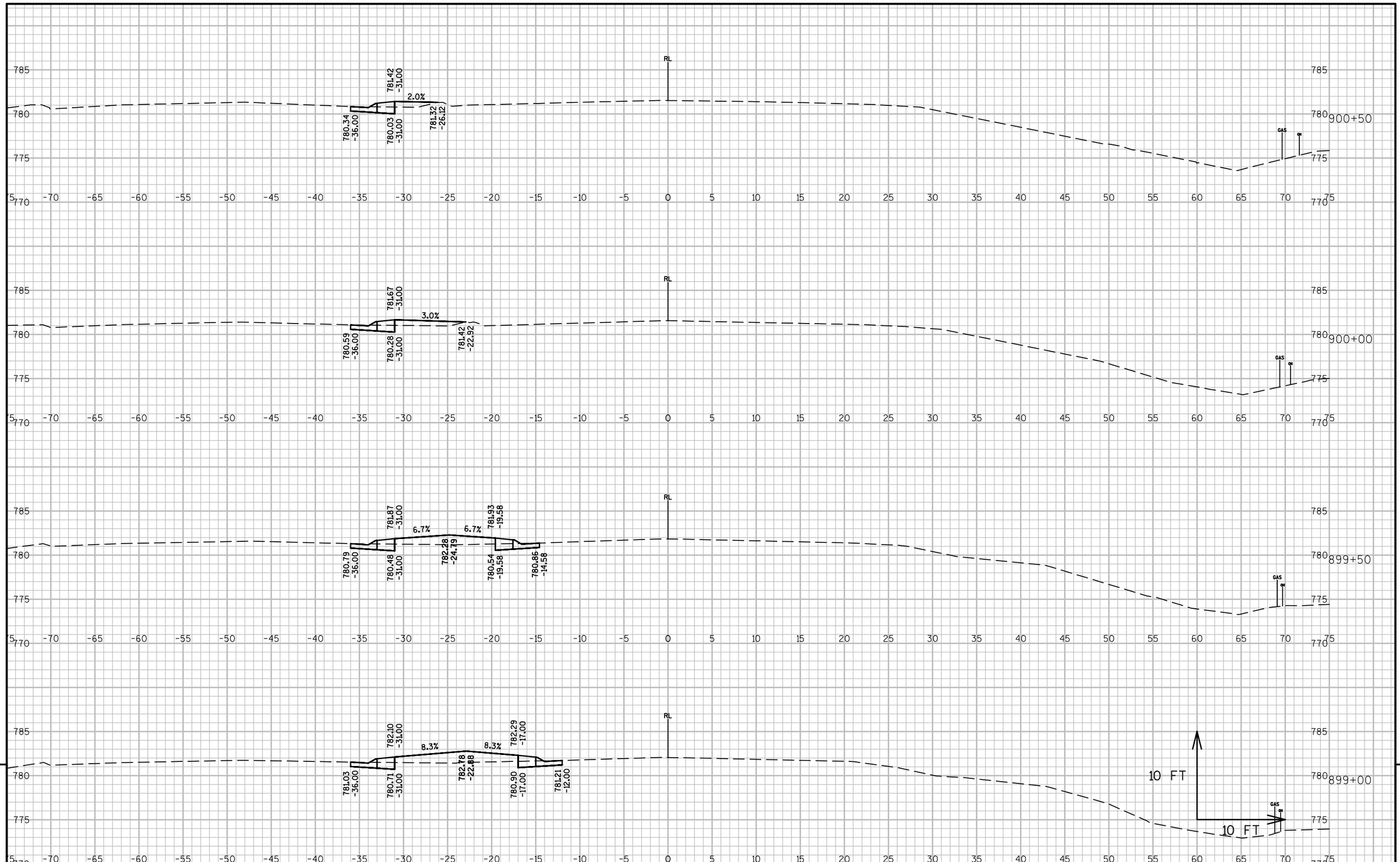

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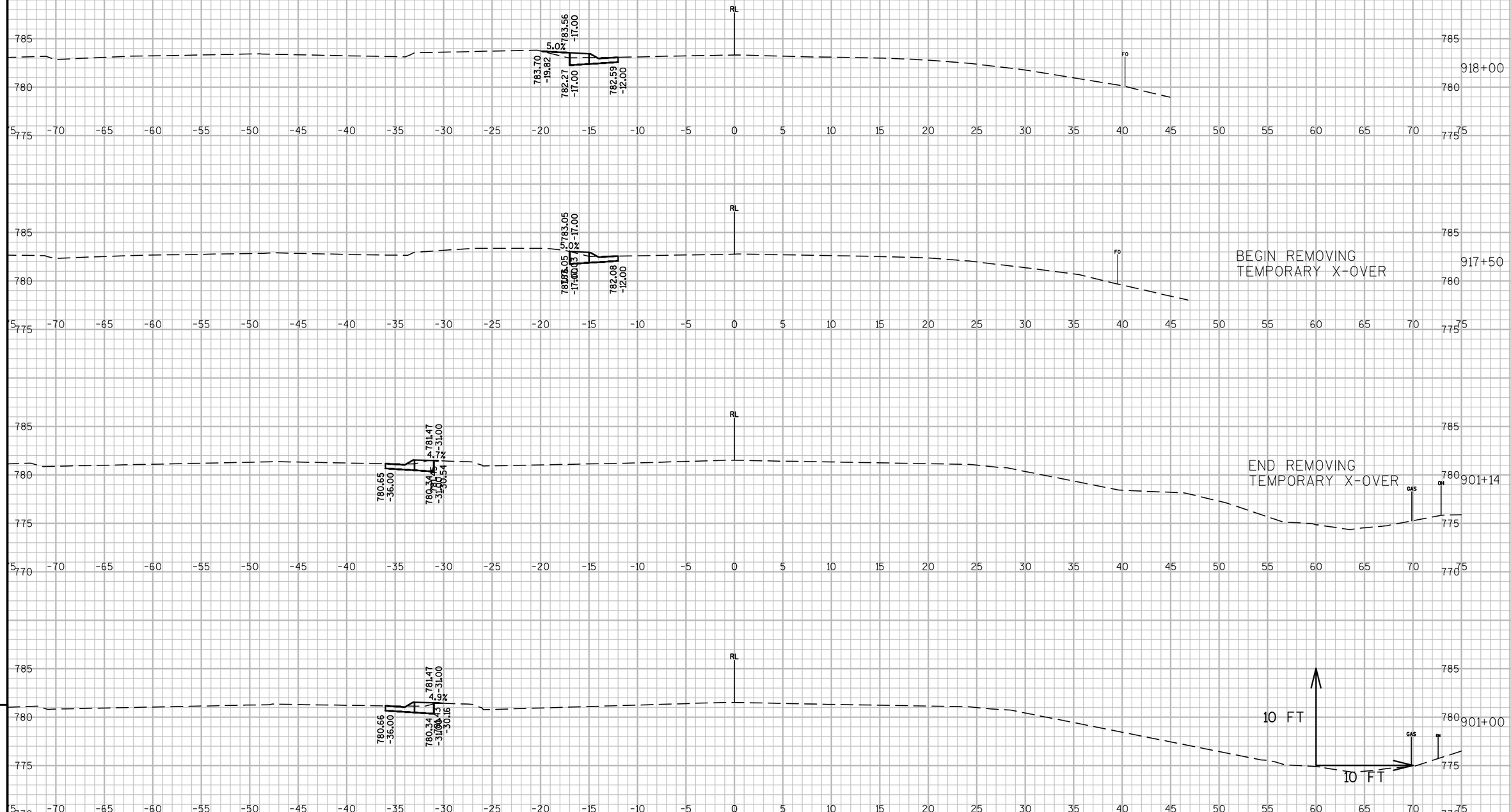
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: REMOVING TEMPORARY CROSSOVERS	SHEET 557	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_CROSSOVER REMOVAL_XS.DWG
LAYOUT NAME - (4)
PLOT DATE : 6/16/2015 2:58 PM
PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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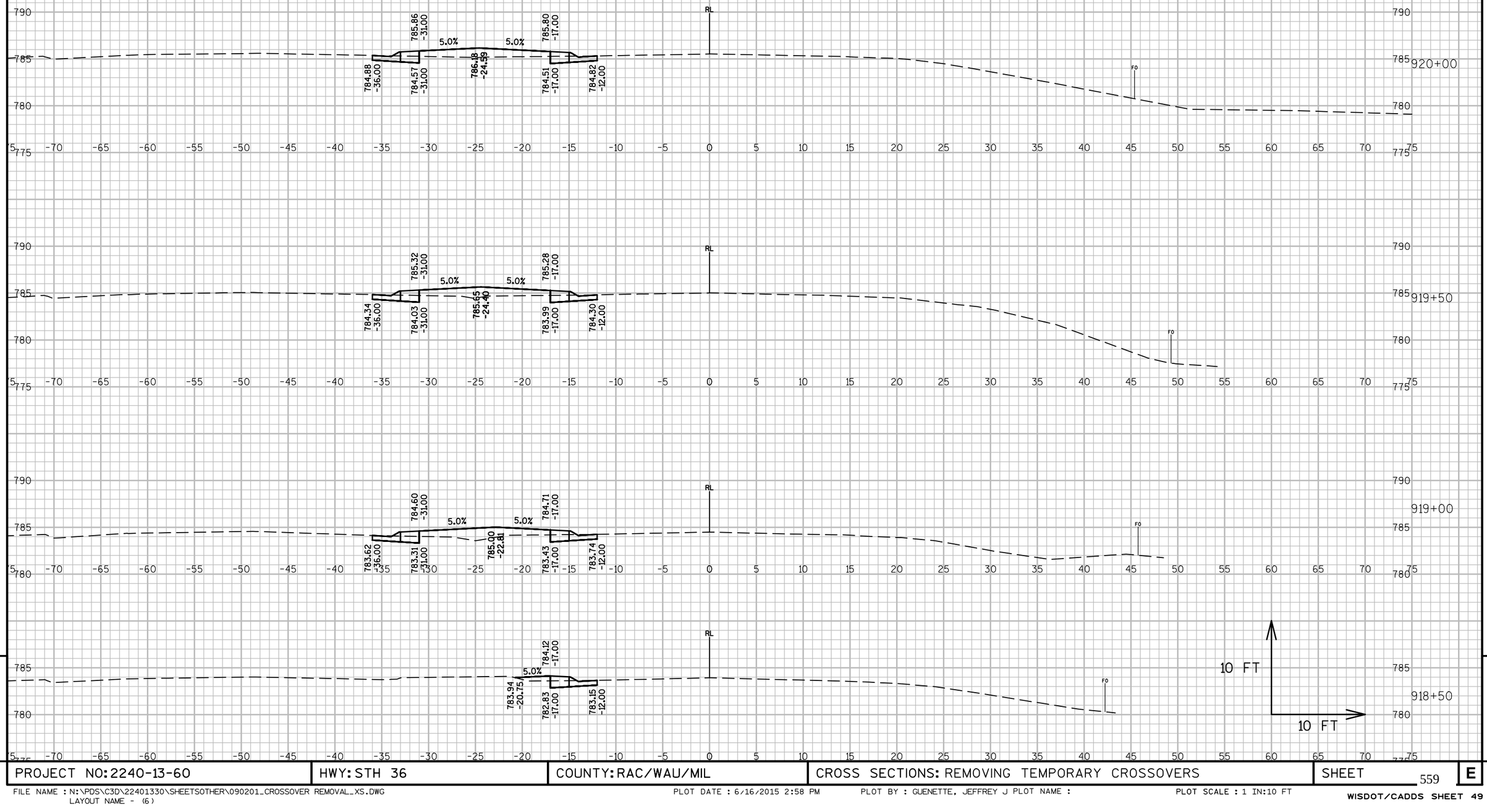
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: REMOVING TEMPORARY CROSSOVERS	SHEET 558	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_CROSSOVER REMOVAL_XS.DWG
LAYOUT NAME - (5)
PLOT DATE : 6/16/2015 2:58 PM
PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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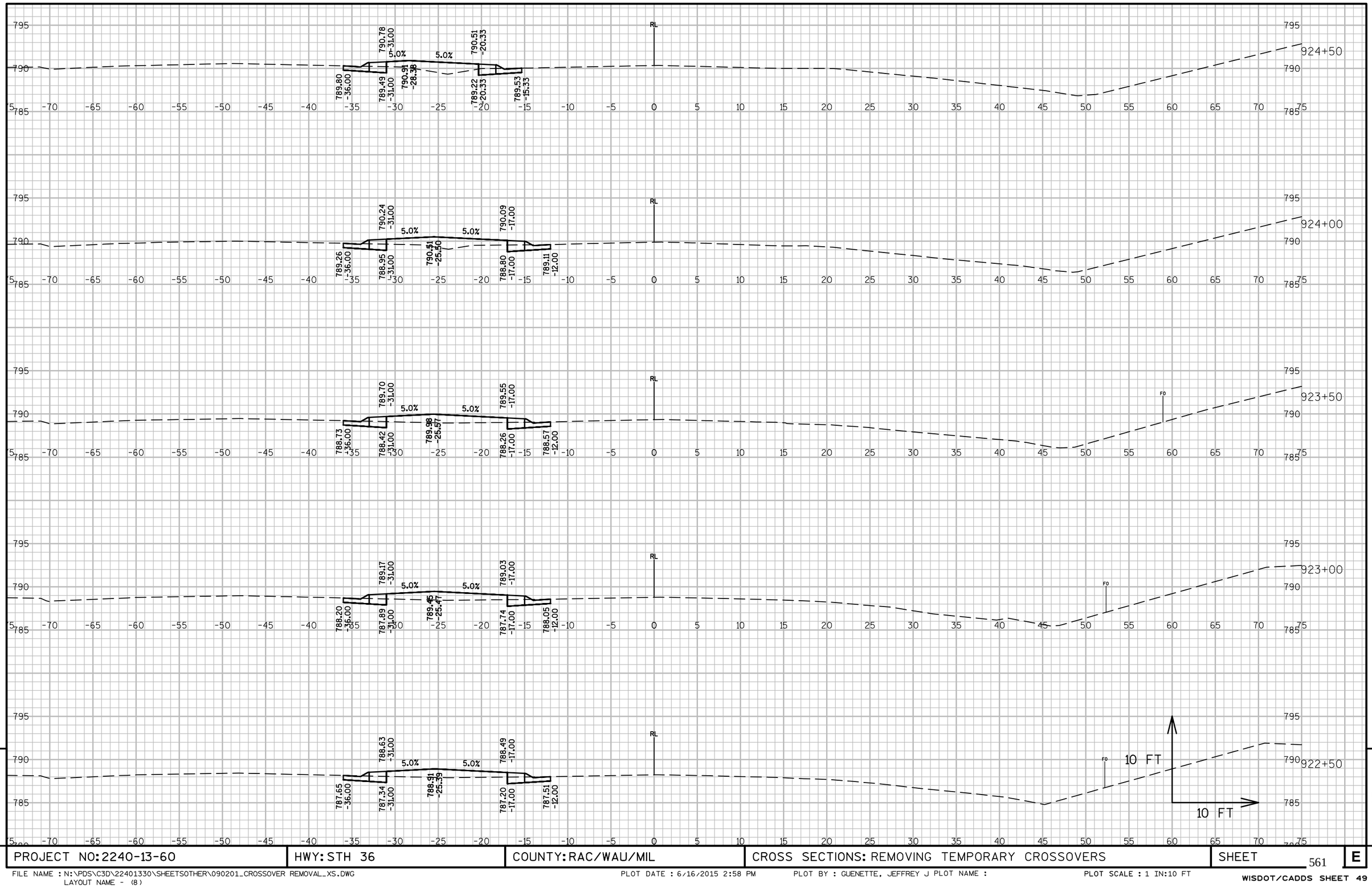
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: REMOVING TEMPORARY CROSSOVERS	SHEET 559	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_CROSSOVER REMOVAL_XS.DWG
LAYOUT NAME - (6)
PLOT DATE : 6/16/2015 2:58 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

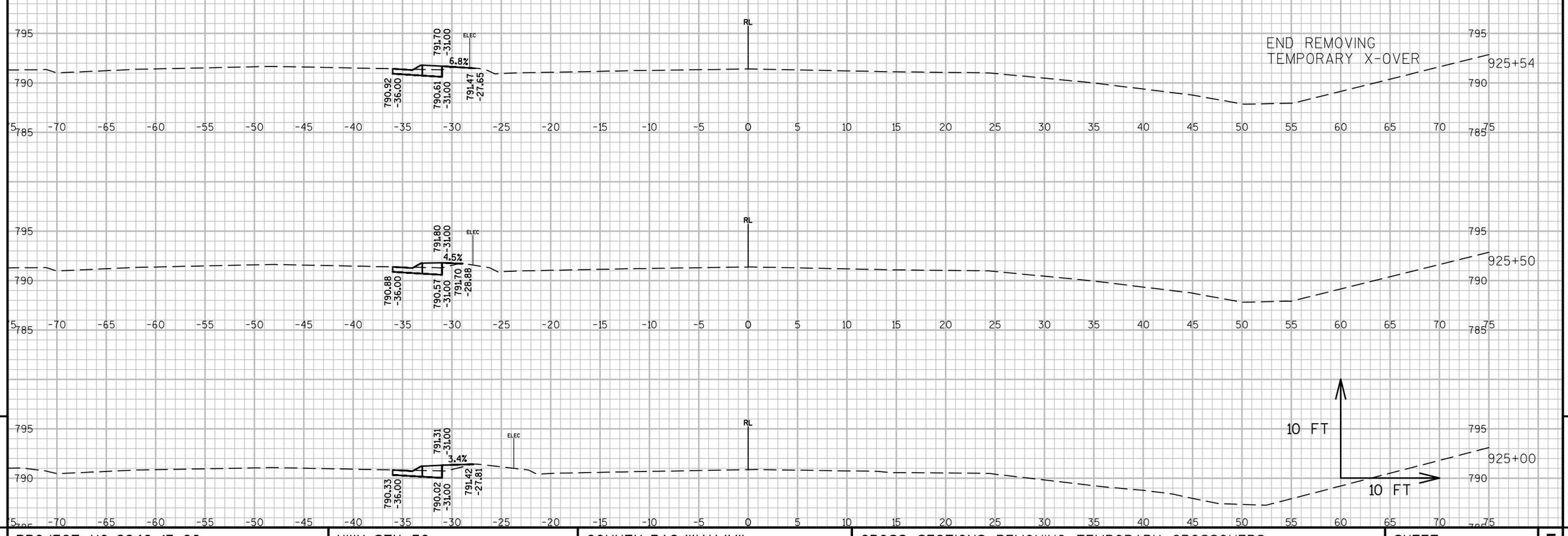
PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: REMOVING TEMPORARY CROSSOVERS	SHEET 560	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_CROSSOVER REMOVAL_XS.DWG
LAYOUT NAME - (7)

PLOT DATE : 6/16/2015 2:58 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: REMOVING TEMPORARY CROSSOVERS	SHEET 561	E



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PROJECT NO: 2240-13-60	HWY: STH 36	COUNTY: RAC/WAU/MIL	CROSS SECTIONS: REMOVING TEMPORARY CROSSOVERS	SHEET 562	E

FILE NAME : N:\PDS\C3D\22401330\SHEETSOTHER\090201_CROSSOVER REMOVAL_XS.DWG
LAYOUT NAME - (9)
PLOT DATE : 6/16/2015 2:58 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

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