



Wisconsin Department of Transportation

Division of Transportation Systems Development

Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

December 7, 2023

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

NOTICE TO ALL CONTRACTORS:

Proposal #31: 1530-05-73, WISC 2024077
Ellsworth - Durand
Pierce/Pepin Co Line to CTH P
USH 10
Pepin County

1530-05-83, WISC 2024078
Ellsworth - Durand
Durand Street to 950' East of
Durand Street
USH 10
Pepin County

Letting of December 12, 2023

This is Addendum No. 01, which provides for the following:

Special Provisions:

Added Special Provisions	
Article No.	Description
25	Driveway Assistance Device System, Item SPV.0045.01

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Proposal Total Prior to Addendum	Proposal Quantity Change (-)	Proposal Total After Addendum
643.0500	Traffic Control Flexible Tubular Marker Posts	EA	1,310	-1,170	140
643.0600	Traffic Control Flexible Tubular Marker Bases	EA	1,310	-1,170	140
643.0920	Traffic Control Covering Signs Type II	EA	23	-13	10

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Proposal Total Prior to Addendum	Quantity Added	Proposal Total After Addendum
SPV.0045.01	Driveway Assistance Device System	DAY	0	28	28

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
43	Traffic Control – Temporary Signal (EB Lane Closure) (Revised traffic control layout to implement Driveway Assistance Device System)
44	Traffic Control – Temporary Signal (WB Lane Closure) (Revised traffic control layout to implement Driveway Assistance Device System)
65	Miscellaneous Quantities Sheet (Revised bid item 643.0920 total and added bid item SPV.0045.01)

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
42A	Traffic Control – Temporary Signal Details (Driveway Assistance Device Construction detail)
182A	Sign Detail (Standard Sign R10-11 added for per Driveway Assistance Device detail)

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 01

1530-05-73

December 8, 2023

Special Provisions

25. Driveway Assistance Device System, Item SPV.0045.01

A Description

This special provision describes providing, repositioning, operating, maintaining, monitoring, calibrating, testing, and removing driveway assistance device system (DADS).

B Materials

Provide DADS components and software that is National Transportation Communications for ITS Protocol (NCTIP)-compliant.

B.1 Temporary Traffic Signals

Provide trailer-mounted traffic signals conforming to standard spec 661. The trailer-mounted traffic signal must have the capability of communication and programming with the Driveway Assistance Device(DAD).

B.2 Driveway Assistance Device

Provide Driveway Assistance Devices (DAD) that are compatible with the trailer-mounted traffic signals. Equip each DAD with 2 regulatory signs according to the plans. Provide a battery powered power supply with a solar powered charging system and a back-up power source. Equip each DAD with a digital LED readout displaying the current battery voltage at all times. Each DAD must have one signal head consisting of 3 LED indications as follows: one 12-inch diameter red ball indication centered over one 12-inch diameter yellow flashing left arrow and one 12-inch diameter yellow flashing right arrow.

B.3 System Communications

Ensure DADS communications meet the following requirements:

1. Perform required configuration of the DADS communication system automatically during system initialization.
2. Incorporate an error detection/correction mechanism into the DADS communication system to ensure the integrity of all data.

B.4 System Acceptance

Submit vendor verification to the engineer and Bureau of Traffic Operations (DOTBTOWorkzone@dot.wi.gov) 14 calendar days before the pre-construction meeting that the system will adequately perform the functions specified in this special provision. Adequate verification includes past successful performance of the system, literature, and references from successful use of the system by other agencies, and/or demonstration of the system.

Provide contact information for a designated representative responsible for monitoring the performance of the system and for making modifications to the operational settings as the engineer directs. Provide all testing and calibration equipment.

C Construction

Place temporary traffic signals and DADs where the plans show unless the engineer directs otherwise. Install devices in accordance with the manufacturer's specifications.

C.1 System Operation

During each green interval on the primary traffic phase, each DAD unit must display a flashing yellow arrow corresponding to the direction of mainline traffic movement. Program DAD units as part of the temporary traffic signal in 1 second increments from 3 to 999 seconds. In the event multiple DAD units are required, all units must be capable of being programmed with individual timing programs based on their placement within the work zone. The DAD must have the ability to be programmed in a fault mode of solid red or flashing red upon a system fault.

C.2 Malfunction Management System and Monitoring

Equip each DAD and temporary traffic signal within the DADS with a Malfunction Management System (MMS) with the ability to communicate with all signals within the DADS. In the event of a fault at any temporary traffic signal or DAD within the DADS, that fault must be communicated to every temporary traffic signal and DAD within the DADS, at which time every temporary traffic signal and DAD must enter into the fault mode.

1. When any conflicting channels are detected as concurrently active, the MMS must transfer all temporary traffic signals and DADs within the DADS to fault mode.
2. The MMS should monitor active signal and DAD indications and verify safe and proper operation. If a conflict or potentially unsafe scenario occurs, the MMS must transfer all signals and DADs within the system to fault condition.
3. When communication between the signal and DADs is lost, the system must enter into the fault mode.
4. The temporary traffic signals and DADs within the DADS must enter into the fault mode when all instances of a signal lamp are lost for more than 1,000 milliseconds, unless one instance of signal indication, (at the signal loss location) is active and functioning properly.

In the event of a low battery condition, the DAD must be equipped with the ability to contact up to 3 individuals via SMS text message or email of the low battery condition.

C.3 System Performance

Upon any notification of failure of any duration, complete a repair within 24-hour period without additional cost to the Department or time extension of the contract. The equipment is also subject to rejection by the Engineer. Any rejected equipment may be offered again for retest provided the noncompliance has been corrected.

C.4 System Coordinator

The contractor is to designate a System Coordinator who is responsible for overseeing the placement of the devices and for testing and calibrating the equipment. The System Coordinator must be locally available to maintain system components, move portable devices as necessary, and respond to emergency situations. The contractor must provide a local phone number or a toll-free number to the Engineer for the maintenance of the system at any time. The System Coordinator must be accessible 7 days/week and 24 hours/day while the system is deployed, and must respond within 2 hours of notification. Each DAD unit must be continually monitored throughout periods of deployment. Technical Support for the system must be available for periods of operation.

C.5 Local Notification

Prior to installation, provide written notification to all residences and businesses whose driveways will be controlled by a DAD. This notification includes anticipated dates of operation and instructions to appropriately interact with the driveway device at a minimum.

D Measurement

The department will measure Driveway Assistance Device System by the day, acceptably completed, measured as each complete system per roadway. The DADS must be set up in the work area and operational before the time can be measured.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0045.01	Driveway Assistance Device System	Day

Payment is full compensation for providing, placing, maintaining, repositioning, and removing the required traffic control devices and for performing any needed flagging.

Payment is full compensation for providing, repositioning, operating, maintaining, monitoring, calibrating, testing, and removing the complete system consisting of temporary traffic signals, driveway assistance devices and system communications.

Failure to correct a deficiency to the DADS within 24 hours after notification from the engineer or the department will result in a one-day deduction of the measured quantity for each day in which the deficiency is not corrected.

The engineer will have sole discretion to assess the deductions for an improperly working DADS.

Schedule of Items

Attached, dated December 8, 2023, are the revised Schedule of Items Pages 6 and 9.

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:

Revised: 43,44 and 65.

Added: 42A and 182A

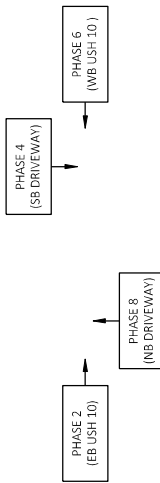
END OF ADDENDUM

TRAFFIC CONTROL NOTES

DRIVEWAY ASSISTANCE DEVICE SHALL BE CONTROLLED BY THE TEMPORARY TRAFFIC SIGNAL CONTROLLER VIA WIRELESS OR HARDWIRED INTERCONNECT.
 DURING TRAFFIC SIGNAL EMERGENCY FLASH, THE DRIVEWAY ASSISTANCE DEVICE SHALL FLASH RED.
 CONTRACTOR SHALL CONDUCT AN EDUCATION SESSION WITH PROPERTY OWNERS WITHIN 7 DAYS PRIOR TO IMPLEMENTING ALTERNATING OPERATION. THE CONTRACTOR SHALL HAVE A REPRESENTATIVE AT EACH DRIVEWAY FOR THE FIRST 12 HOURS OF OPERATION TO ANSWER ANY QUESTIONS OF PROPERTY OWNERS.

TEMPORARY TRAFFIC SIGNAL SHALL OPERATE PRE-TIMED UNLESS VEHICLE DETECTION IS PROVIDED AT EACH APPROACH AND DRIVEWAY.
 EACH DRIVEWAY ASSISTANCE DEVICE MUST HAVE ONE SIGNAL HEAD CONSISTING OF THREE LED INDICATORS AS FOLLOWS: ONE 1.25 IN. DIAMETER STEADY RED BALL INDICATOR CENTERED OVER ONE 1.2 IN. DIAMETER YELLOW FLASHING LEFT ARROW AND ONE 1.2 IN. DIAMETER YELLOW FLASHING RIGHT ARROW.

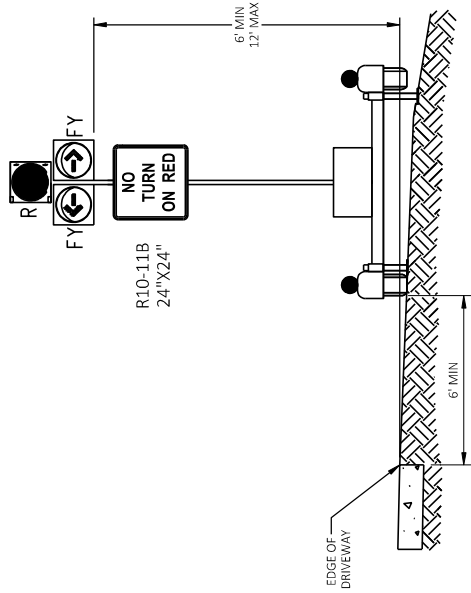
TEMPORARY TRAFFIC CONTROL SIGNAL PHASING



TEMPORARY TRAFFIC CONTROL SIGNAL TIMINGS

INTERVAL	PHASE TIME (SECONDS)	CUMULATIVE TIME (SECONDS)	PHASE 2 EB USH 10	PHASE 4 SB DRIVEWAY	PHASE 6 WB USH 10	PHASE 8 NB DRIVEWAY
1	30.5	30.5	GREEN	FYA (L)	RED	FYA (R)
2	3.5	34	YELLOW	FYA (L)	RED	FYA (R)
3	39	73	RED	FYA (L)	RED	RED
4	1	74	RED	RED	RED	RED
5	27.5	101.5	RED	FYA (R)	GREEN	FYA (L)
6	3.5	105	RED	FYA (R)	YELLOW	FYA (L)
7	39	144	RED	FYA (R)	RED	FYA (L)
8	1	145	RED	RED	RED	RED

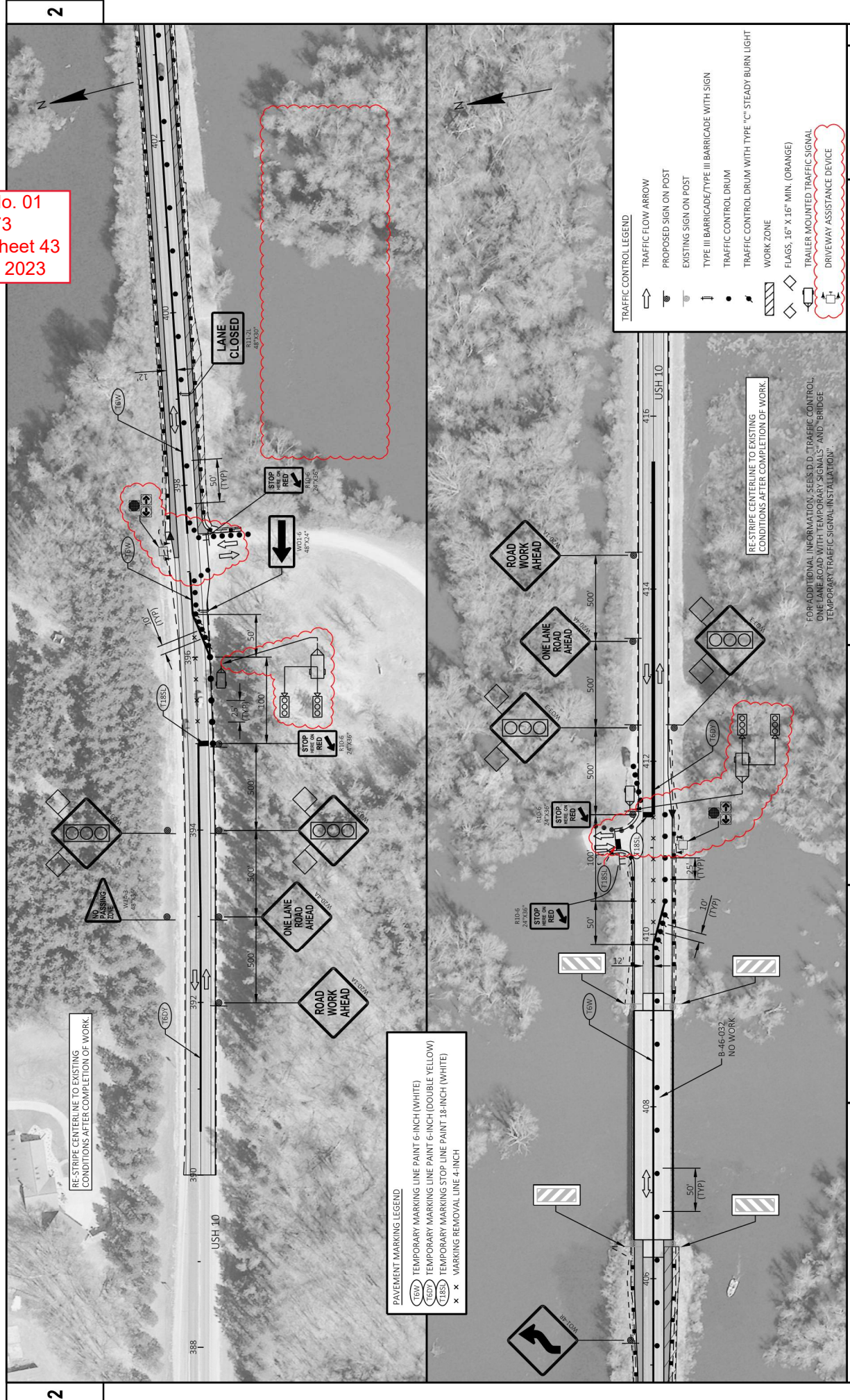
FYA (L) - FLASHING YELLOW ARROW, LEFT
 FYA (R) - FLASHING YELLOW ARROW, RIGHT



DRIVEWAY ASSISTANCE DEVICE THREE HEAD DEVICE
 ELEVATION VIEW

Addendum No. 01
 ID 1530-05-73
 Added Sheet 42A
 December 8, 2023

Addendum No. 01
 ID 1530-05-73
 Revised Sheet 43
 December 8, 2023



RE-STRIPE CENTERLINE TO EXISTING
 CONDITIONS AFTER COMPLETION OF WORK.

PAVEMENT MARKING LEGEND
 (16W) TEMPORARY MARKING LINE PAINT 6-INCH (WHITE)
 (16BY) TEMPORARY MARKING LINE PAINT 6-INCH (DOUBLE YELLOW)
 (11BS) TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)
 x MARKING REMOVAL LINE 4-INCH

TRAFFIC CONTROL LEGEND
 TRAFFIC FLOW ARROW
 PROPOSED SIGN ON POST
 EXISTING SIGN ON POST
 TYPE III BARRICADE/TYPE III BARRICADE WITH SIGN
 TRAFFIC CONTROL DRUM
 TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
 WORK ZONE
 FLAGS, 16" X 16" MIN. (ORANGE)
 TRAILER MOUNTED TRAFFIC SIGNAL
 DRIVEWAY ASSISTANCE DEVICE

PROJECT NO: 1530-05-73 HWY: USH 10 COUNTY: PEPIN SHEET: 43

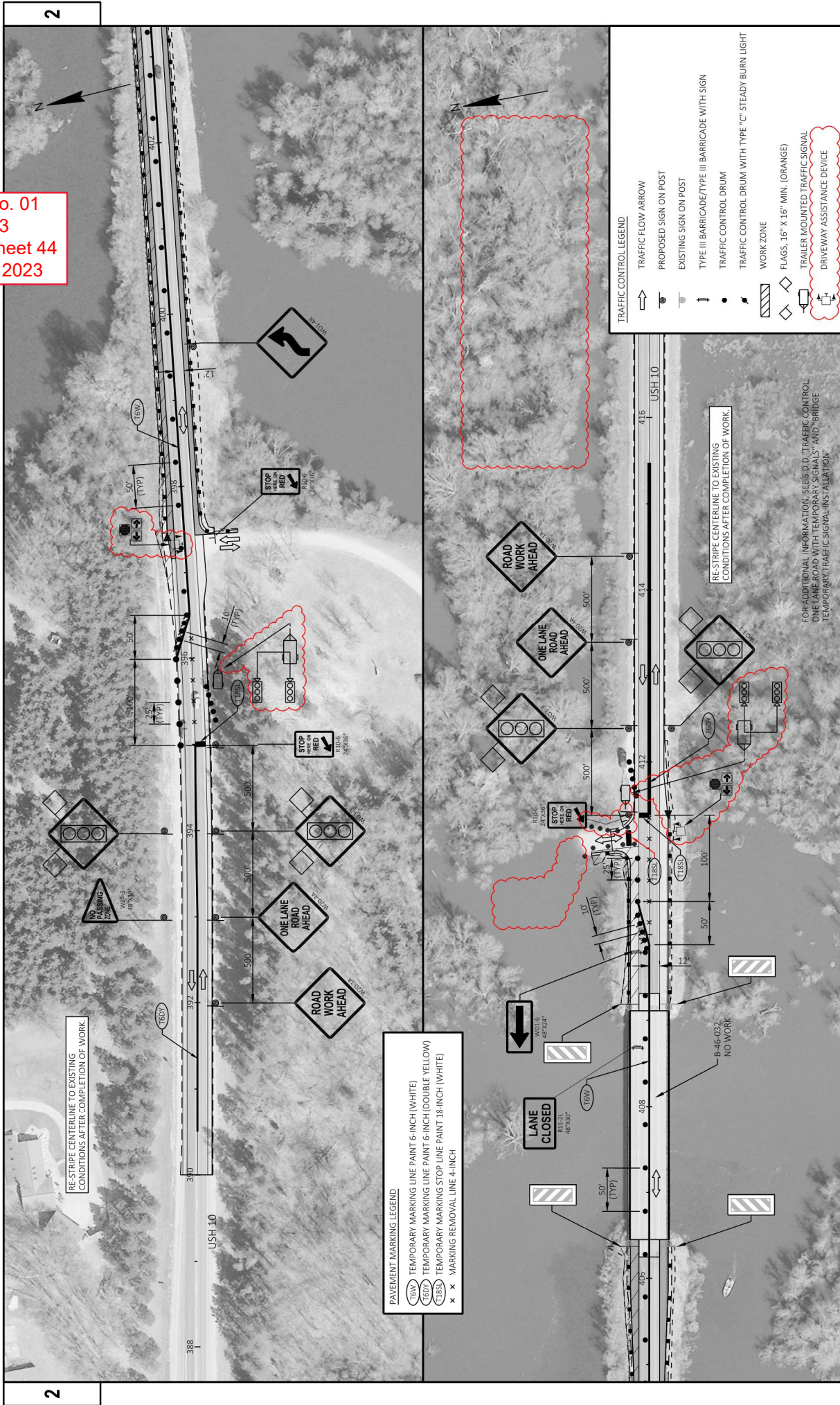
FILE NAME: C:\PDS\3D\15300595\SHEETS\SPAN\021031-CEB LN CLOSURE.DWG PLOT DATE: 12/6/2023 4:52 PM PLOT BY: ED OCHS PLOT SCALE: 1 IN=100 FT WISDOT/CADDS SHEET 44

FOR ADDITIONAL INFORMATION, SEE S.D.D. "TRAFFIC CONTROL,
 ONE LANE ROAD WITH TEMPORARY SIGNALS" AND "BRIDGE
 TEMPORARY TRAFFIC SIGNAL INSTALLATION".

RE-STRIPE CENTERLINE TO EXISTING
 CONDITIONS AFTER COMPLETION OF WORK.

B-46-032
 NO WORK

Addendum No. 01
 ID 1530-05-73
 Revised Sheet 44
 December 8, 2023



PROJECT NO: 1530-05-73
 COUNTY: PEPIN
 HWY: USH 10
 SHEET 44

FILE NAME: C:\PDS\3D\15300595\SHETS\PLAN\0251041-C-WB LN CLOSURE.DWG
 LAYOUT NAME: (WB LANE CLOSURE)
 PLOT DATE: 12/09/2023 4:52 PM
 PLOT BY: ED OCHS
 PLOT NAME: 1 IN=100 FT
 WISDOT/CARDS SHEET 44

621.0100 - MONUMENTS

CATEGORY	STATION	LOCATION	MONUMENTS EACH
0010	37+14	USH 10	1
0010	63+57	USH 10	1
0010	116+95	USH 10	1
TOTAL 0010			3

643 - DETOUR

CATEGORY	STATION	TO	STATION	LOCATION	DURATION DAYS	BARRICADES TYPE III	TRAFFIC CONTROL	WARNING LIGHTS TYPE A	TRAFFIC CONTROL SIGNS	TRAFFIC CONTROL SIGNS TYPE II	COVERING SIGNS TYPE II	TRAFFIC CONTROL SIGNS FIXED MESSAGE	REMARKS			
0010	258+00	-	286+00	USH 10	14	14	196	20	280	4	56	643.1000	WORKZONE			
0010		DETOUR		USH 10	14	0	840	--	--	60	840	--	DETOUR ROUTE			
0010		DETOUR		USH 10	14	2	28	4	56	24	336	1	USH 10 / CTH/CC			
0010		DETOUR		USH 10	14	--	--	--	--	22	308	--	CTH/CC / STH/72			
0010		DETOUR		USH 10	14	--	--	--	--	27	378	--	W WINTER AVE / MAIN ST			
0010		DETOUR		USH 10	14	--	--	--	--	37	518	--	STH 72 / STH 25			
0010		DETOUR		USH 10	14	2	28	4	56	18	252	6	1	4	56	STH 25 / USH 10
TOTAL 0010					1,092	392	2,688	7	168							

*ADDITIONAL QUANTITIES LISTED ELSEWHERE
**FOR INFORMATIONAL USE ONLY

Addendum No. 01
ID 1530-05-73
Revised Sheet 65
December 8, 2023

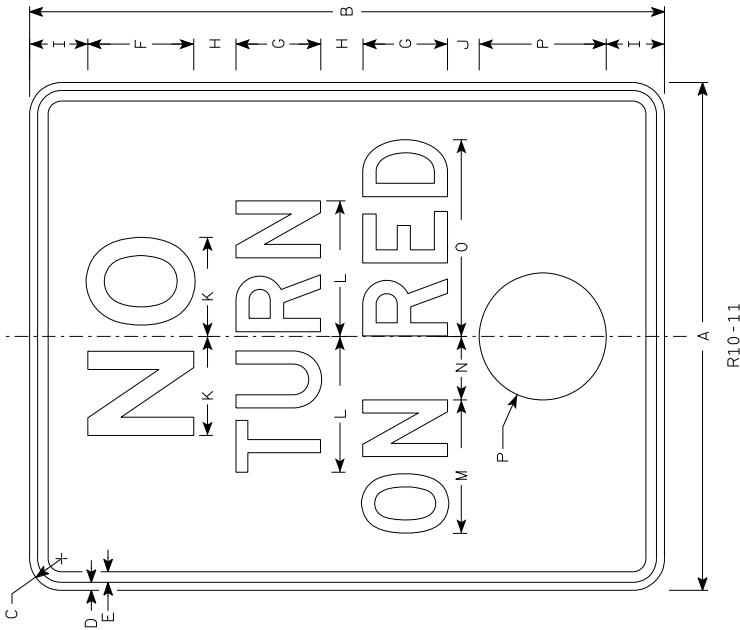
643 - TRAFFIC CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	DURATION DAYS	TRAFFIC CONTROL BARRICADES TYPE III	TRAFFIC CONTROL WARNING LIGHTS TYPE A	TRAFFIC CONTROL SIGNS	TRAFFIC CONTROL SIGNS TYPE II	TRAFFIC CONTROL SIGNS FIXED MESSAGE	TRAFFIC CONTROL SIGNS TYPE II	COVERING SIGNS TYPE II	TRAFFIC CONTROL SIGNS FIXED MESSAGE	REMARKS							
0010	66+59	-	112+00	USH 10	10	96	960	3	30	118	1,180	2	20	18	180	11	110	--	--	CLIMBING LANE EB LANE SHIFT	
0010	65+61	-	95+30	USH 10	5	64	320	1	5	0	0	2	10	0	0	8	40	--	--	CLIMBING LANE WB LANE CLOSURE	
0010	396+19	-	412+25	USH 10	7	54	378	2	14	0	0	0	0	10	70	15	105	--	--	COMPSON LAKE EB LANE CLOSURE	
0010	396+19	-	412+25	USH 10	7	57	399	2	14	0	0	0	0	10	70	15	105	--	--	COMPSON LAKE WB LANE CLOSURE	
0010	PROJECT			USH 10	30	36	1,080	0	0	0	0	0	0	5	150	5	150	--	--	VARIOUS SHOULDER WORK	
0010	PROJECT			USH 10	7	0	0	0	0	0	0	0	0	0	0	0	0	36	--	--	ROAD WORK BEGIN/END
0010	PROJECT			USH 10	101	0	0	0	0	0	0	0	0	28	2,828	--	1	--	--	FLAGGING OPERATION + MISC	
0010	UNDISTRIBUTED (10%)			USH 10	12	12	120	12	120	30	30	332	--	--	--	--	--	--	--	--	28
TOTAL 0010					75	3,450	60	350	3,670	36	1	1	28								

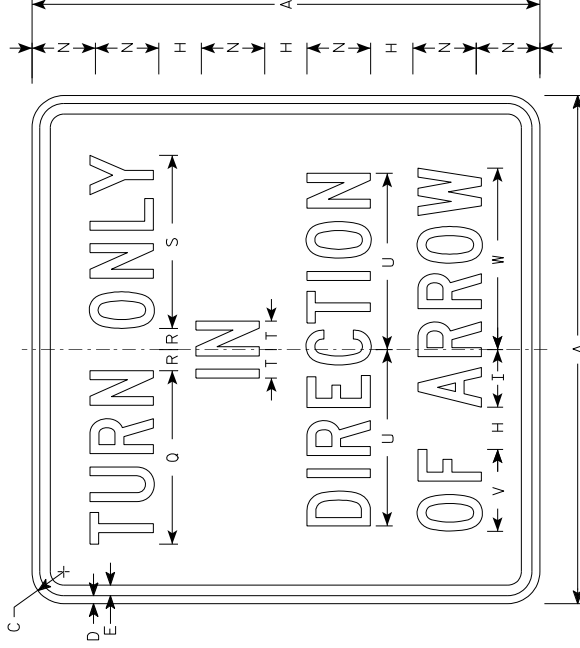
*ADDITIONAL QUANTITIES LISTED ELSEWHERE
**FOR INFORMATIONAL USE ONLY

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
 - Background - White
 - Message - Black
3. Message Series - R10-11 - D except line 11s Series E
R10-11D - Series C
4. Signs used with Driveway Assistance Device Only



R10-11



R10-11D

Addendum No. 01
ID 1530-05-73
Added Sheet 182A
December 8, 2023

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	SPACING IN IN.
1																											
2S	24	30	1 1/2	3/8	1/2	5	4	2	2 3/4	1 1/2	4 5/8	6 3/8	6 1/4	3	9 1/4	6	8 1/4	1	8 1/4	1 3/8	8 3/8	3 7/8	8 5/8				5.0
2M	24	30	1 1/2	3/8	1/2	5	4	2	2 3/4	1 1/2	4 5/8	6 3/8	6 1/4	3	9 1/4	6	8 1/4	1	8 1/4	1 3/8	8 3/8	3 7/8	8 5/8				5.0
3																											
4																											
5																											

STANDARD SIGN
R10-11
WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew J. Leach*
State Traffic Engineer
DATE 11/22/23 PLATE NO. R10-11L



Proposal Schedule of Items

Proposal ID: 20231212031 Project(s): 1530-05-73, 1530-05-83

Federal ID(s): WISC 2024077, WISC 2024078

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0150	629.0210 Fertilizer Type B	14.700 CWT	_____.	_____.
0152	630.0120 Seeding Mixture No. 20	579.000 LB	_____.	_____.
0154	630.0200 Seeding Temporary	150.000 LB	_____.	_____.
0156	630.0500 Seed Water	17.000 MGAL	_____.	_____.
0158	633.5200 Markers Culvert End	22.000 EACH	_____.	_____.
0160	642.5001 Field Office Type B	1.000 EACH	_____.	_____.
0162	643.0300 Traffic Control Drums	3,614.000 DAY	_____.	_____.
0164	643.0420 Traffic Control Barricades Type III	1,203.000 DAY	_____.	_____.
0166	643.0500 Traffic Control Flexible Tubular Marker Posts	140.000 EACH	_____.	_____.
0168	643.0600 Traffic Control Flexible Tubular Marker Bases	140.000 EACH	_____.	_____.
0170	643.0705 Traffic Control Warning Lights Type A	524.000 DAY	_____.	_____.
0172	643.0715 Traffic Control Warning Lights Type C	381.000 DAY	_____.	_____.
0174	643.0900 Traffic Control Signs	6,475.000 DAY	_____.	_____.
0176	643.0920 Traffic Control Covering Signs Type II	10.000 EACH	_____.	_____.
0178	643.1000 Traffic Control Signs Fixed Message	204.000 SF	_____.	_____.
0180	643.1070 Traffic Control Cones 42-Inch	184.000 DAY	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20231212031 Project(s): 1530-05-73, 1530-05-83

Federal ID(s): WISC 2024077, WISC 2024078

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0242	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	2,000.000 HRS	5.00000	10,000.00
0244	SPV.0055 Special 01. Incentive Density PWL HMA Pavement	19,590.000 DOL	1.00000	19,590.00
0246	SPV.0055 Special 02. Incentive Air Voids HMA Pavement	27,180.000 DOL	1.00000	27,180.00
0248	SPV.0055 Special 03. Incentive Density HMA Pavement Longitudinal Joints	43,555.000 DOL	1.00000	43,555.00
0250	SPV.0060 Special 01. Grading and Shaping Endwall Installation	1.000 EACH	_____.	_____.
0252	SPV.0090 Special 01. Ditch Cleaning	200.000 LF	_____.	_____.
0254	SPV.0045 Special 01. Driveway Assistance Device System	28.000 DAY	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.