

Wisconsin Department of Transportation

June 6, 2017

Division of Transportation Systems Development

Bureau of Project Development
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Madison, WI 53707-7916

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NOTICE TO ALL CONTRACTORS:

Proposal #07:	1060-28-70, WISC 2017 317	1228-21-71, WISC 2017 319
	Marquette Interchange	Valley Bridge IH43/IH94
	Bridge - IH 43/IH 94/ IH 794	Virginia St-1500FT N(Menomonee Rvr)
	IH 43/IH 94/ IH 794	IH 43/IH 94
	Milwaukee County	Milwaukee County

Letting of June 13, 2017

This is Addendum No. 02, which provides for the following:

Special Provisions:

Revised Special Provisions	
Article No.	Description
3	Prosecution and Progress
4	Lane Rental Assessment
5	Traffic
6	Holiday and Special Event Work Restrictions
40	Intelligent Transportation System (ITS) – Control of Materials
44	Polyester Polymer Concrete Overlay with Milling and Trial Overlay, Item SPV.0035.001
77	Removing Asphaltic Concrete Overlay Special, Item SPV.0180.001

Added Special Provisions	
Article No.	Description
81	Removing Overhead Freeway DMS, Item 204.9060.S.004
82	Removing Controller Cabinet, Item 204.9060.S.005
83	Removing Controller Cabinet Base, Item 204.9060.S.006
84	Install Overhead Freeway DMS Full Matrix, Item 678.0100.S

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
509.0301	Preparation Decks Type 1	SY	1,965	80	2,045
509.0302	Preparation Decks Type 2	SY	791	32	823
643.0300	Traffic Control Drums	Day	61,389	1,054	62,443
643.0420	Traffic Control Barricades Type III	Day	8,140	116	8,256
643.0705	Traffic Control Warning Lights Type A	Day	10,185	133	10,318
643.0715	Traffic Control Warning Lights Type C	Day	13,695	194	13,889
643.0800	Traffic Control Arrow Boards	Day	1,049	16	1,065
643.0900	Traffic Control Signs	Day	28,960	336	29,296
643.1050	Traffic Control PCMS	Day	928	97	1,025
643.3000	Traffic Control Detour Signs	Day	128,343	540	128,883
SPV.0060.030	Traffic Control Close-Open Freeway to Freeway System Ramp	Day	90	4	94
SPV.0060.031	Traffic Control Interim Freeway Lane Closure	Day	301	10	311
SPV.0060.032	Traffic Control Close-Open Freeway Entrance Ramp	Day	260	10	270

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
204.9060.S.004	Removing Overhead Freeway DMS	Each	0	1	1
204.9030.S.005	Removing Controller Cabinet	Each	0	1	1
204.9060.S.006	Removing Controller Cabinet Base	Each	0	1	1
505.0600	Bar Steel Reinforcement HS Coated Structures	LB	0	6,000	6,000
655.0635	Electrical Wire Lighting 2 AWG	LF	0	360	360
674.0300	Remove Cable	LF	0	120	120
678.0100.S	Install Overhead Freeway DMS Full Matrix	Each	0	2	2

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
52	Temporary Signing – updated to remove sign that is replaced by BTO detail on sheet 52A
118-120	Traffic Control Plan – Stage 2A-1 IH 43/94 NB/SB – updated plan sheet due to modification to sign detail.
128	Traffic Control Plan – Stage 2A-2 IH 43/94 NB/SB – updated plan sheet due to modification to sign detail.
142-145	Traffic Control Plan – Stage 3 IH 43/94 NB/SB – updated plan sheet due to modification to sign detail.
185	Miscellaneous Quantities – updated quantities for DMS replacement traffic control
186	Miscellaneous Quantities – updated quantities for DMS replacement traffic control
187	Miscellaneous Quantities – updated quantities for DMS replacement traffic control
205	FTMS Miscellaneous Quantities – added bid items & quantities for DMS replacement
256	Structure B-40-285-27E-2 – Revised quantities and notes
264	Structure B-40-285-27F-2 – Revised quantities and notes

271	Structure B-40-285-27G – Revised quantities and notes
279	Structure B-40-285-27H – Revised quantities and notes
285	Structure B-40-285-27I – Revised quantities and notes
294	Structure B-40-285-27J – Revised quantities and notes

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
31A-31B	FTMS Plan Sheets – plans for DMS replacement
52A	Temporary Signing – updated sign plate from Bureau of Traffic Operations
67A	Traffic Control – Adv. Signing Stage 3 IH 94 WB Full Closure – added traffic control for DMS replacement
67B	Traffic Control – ADV. Signing Stage 3 IH 43/94 NB Full Closure – added traffic control for DMS replacement
148A-148M	Traffic Control Plan –Stage 3 IH 94 WB Full Closure – added traffic control for DMS replacement
148N-148T	Traffic Control Plan –Stage 3 IH 43/94 NB Full Closure – added traffic control for DMS replacement
164A	Detour Plan – IH 94 WB Full Closure – added detour route for DMS replacement
164B	Detour Plan – IH 43/94 NB Full Closure – added detour route for DMS replacement
254A-254O	Sign Plates –sheets were not included with advertised set.
349A	Sign Structure S-40-403 – DMS Sign Panel Connection Detail
349B	Sign Structure S-40-431 – DMS Sign Panel Connection 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. 02

1060-28-70

June 6, 2017

Special Provisions

3. Prosecution and Progress.

Add the following bullet statement under section titled Schedule of Operations, Stage 3, 2018:

- Digital Message Sign (DMS) replacement on IH 43 NB and IH 94 WB

*Replace entire section titled **Freeway and Ramp Work Restrictions** with the following:*

Freeway and Ramp Work Restrictions

Definitions

The following definitions apply to this contract:

Stage 2A	Work on IH 43 NB and connecting ramps
Stage 2A-1	Work on IH 43 SB and connecting ramps
Stage 2A-2	Work on IH 43 SB and connecting ramps

System Ramps	Freeway to freeway ramps
Service Ramps	Freeway to/from local road ramps

Weekday Peak Hours

- 6:00 AM to 9:00 AM Monday, Tuesday, Wednesday, Thursday, and Friday
- 3:00 PM to 6:00 PM Monday, Tuesday, Wednesday, Thursday, and Friday

Weekday Midday Hours

- 10:00 AM to 2:00 PM Monday, Tuesday, Wednesday, Thursday, and Friday

Weekday Off-Peak Hours

- 5:30 AM to 6:00 AM Monday, Tuesday, Wednesday, Thursday, and Friday
- 9:00 AM to 10:00 AM Monday, Tuesday, Wednesday, Thursday, and Friday
- 2:00 PM to 3:00 PM Monday, Tuesday, Wednesday, Thursday, and Friday
- 6:00 PM to 9:00 PM Monday, Tuesday, Wednesday, Thursday, and Friday

Weekend Midday Hours

- 9:00 AM – 2:00 PM Saturday and Sunday

Weekend Off-Peak Hours

- 8:00 AM to 9:00 AM Saturday and Sunday
- 2:00 PM to 11:00 PM Saturday and Sunday

Nighttime Hours

- 9:00 PM to 5:30 AM (Sunday PM to Monday AM, Monday PM to Tuesday AM, Tuesday PM to Wednesday AM, Wednesday PM to Thursday AM, Thursday PM to Friday AM)
- 11:00 PM – 8:00 AM (Friday PM to Saturday AM, Saturday PM to Sunday AM)

Full Freeway Closure Hours:

- 11:00 PM to 4:30 AM (Sunday PM to Monday AM, Monday PM to Tuesday AM, Tuesday PM to Wednesday AM, Wednesday PM to Thursday AM, Thursday PM to Friday AM)

- 11:00 PM to 6:00 AM (Friday PM to Saturday AM, Saturday PM to Sunday AM)

Full Freeway Weekend Closure Hours

- 11:00 PM to 5:30 AM (Friday PM to Monday AM)

Do not close freeway lanes or shoulders and ensure that the freeways are entirely clear for traffic except as defined in the Traffic article and as shown in the traffic control plans. Provide a minimum of one lane in each direction of the freeway that is entirely clear for traffic during Nighttime Hours except as allowed during full closure.

Do not close any additional movements during the IH 94 WB full closure.

Do not close any additional movements during the IH 43 NB full closure.

Follow plan details for closures. Lane restrictions of the freeway beyond that shown on the traffic control plans are subject to lane rental assessments and must be approved by the engineer. If plan details are not provided in the traffic control plan, furnish plans for review by the engineer so that approval, or disapproval, is obtained at least three business days prior to the closure of roadway, lane, and ramp.

Do not at any time, conduct construction operations in the median area and adjacent outside shoulder area of the freeway at the same time without obtaining prior permission of the engineering, beyond that shown on the traffic control plans.

Replace entire section titled Interim Completion of Work (2A-1 and 2A-2 Ramp ES – Tuesday, May 22, 2018) with the following:

Interim Completion of Work (Stage 2A-1 and Stage 2A-2 Ramp ES – Tuesday, May 22, 2018)

Complete construction operations on Ramp ES to the stage necessary to reopen it to through traffic prior to 12:01 AM, Tuesday, May 22, 2018. Do not reopen until completing the following work: PPC overlay, concrete overlay, lighting work, splice plate painting, and pavement marking.

If the contractor fails to complete the work necessary to reopen Ramp ES to through traffic prior to 12:01 AM Tuesday, May 22, 2018, the department will assess the contractor \$20,000 in interim liquidated damages for each calendar day that the roadway remains closed after 12:01 AM, Tuesday, May 22, 2018. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

4. Lane Rental Assessment.

Replace paragraph one under section titled B Lane Rental Fee Assessment with the following:

B Lane Rental Fee Assessment

The Lane Rental Fee Assessment incurred for each shoulder closure, lane closure, each ramp closure, and each full closure of a roadway, per direction of travel, is as follows:

- Weekday Peak Hours - \$5,000 per lane, per direction of travel, per hour broken into 15 minute increments for the IH 94 EB to St. Paul Avenue/James Lovell Street service ramp, Clybourn Street service ramp to IH 94 WB, 11th Street/Tory Hill Avenue service ramp to IH 94 WB, 2nd Street service ramp to IH 43 NB, Ramp EN, Ramp NE, Ramp NW, Ramp SW, and Ramp WN
- Weekday Peak Hours - \$10,000 per lane, per direction of travel, per hour broken into 15 minute increments for the IH 43/94 NB, IH 43 SB, IH 94/794 EB, and IH 94/794 WB

5. Traffic.

Replace entire subsection titled **Stage 3** under section titled **C Roadway and Ramp Closures** with the following:

Stage 3

Closure of the IH 94 EB to IH 43 SB system ramp, the 6th Street/Mineral Street to IH 43/94 NB service ramp, and the 9th Street/Walker Street to IH 43/94 NB service ramp. Detour traffic as shown in plans.

Full Freeway Closure of IH 43 NB, IH 794 to IH 94 WB, IH 43 NB to IH 94 WB system ramp, IH 43 SB to IH 94 WB system ramp, Clybourn Street service ramp to IH 94 WB, and 11th Street/Tory Hill Avenue service ramp to IH 94 WB during Full Freeway Closure Hours to accommodate DMS work. Detour traffic as shown in plans.

6. Holiday and Special Event Work Restrictions.

Replace paragraph eight with the following:

IH 94 EB full weekend closure, IH 94 WB Full closure, and IH 43 NB Full Closure are not permitted during the following time frames (event dates subject to change):

- From 12:00 AM Friday, June 30, 2017 to 6:00 AM Monday, July 10, 2017 for Summerfest;
- From 6:00 AM Friday, July 21, 2017 to 6:00 AM Monday, July 24, 2017 for Festa Italiana;
- From 6:00 AM Friday, July 28, 2017 to 6:00 AM Monday, July 31, 2017 for German Fest;
- From 6:00 AM Friday, August 18, 2017 to 6:00 AM Monday, August 21, 2017 for Irish Fest;
- From 6:00 AM Friday, August 25, 2017 to 6:00 AM Monday, August 28, 2017 for Mexican Fiesta;
- From 6:00 AM Thursday, August 31, 2017 to 6:00 AM Tuesday, September 5, 2017 for Harley Fest.
- From 6:00 AM Friday, September 8, 2017 to 6:00 AM Monday, September 11, 2017 for Indian Summer Festival;
- From 6:00 AM Saturday, September 16, 2017 to 6:00 PM Saturday, September 16, 2017 for the Briggs and Al's run.
- From 6:00 AM Sunday, September 17, 2017 to 6:00 PM Sunday, September 17, 2017 for the Walk to End Alzheimer's.
- From 6:00 AM Sunday, September 24, 2017 to 6:00 PM Sunday, September 24, 2017 for the Susan G. Komen Race for the Cure.
- From 12:00 AM Friday, June 29, 2018 to 6:00 AM Monday, July 9, 2018 for Summerfest;
- From 6:00 AM Friday, July 20, 2018 to 6:00 AM Monday, July 23, 2018 for Festa Italiana;
- From 6:00 AM Friday, July 28, 2018 to 6:00 AM Monday, July 31, 2018 for German Fest;
- From 6:00 AM Friday, August 17, 2018 to 6:00 AM Monday, August 20, 2018 for Irish Fest;
- From 6:00 AM Friday, August 24, 2018 to 6:00 AM Monday, August 27, 2018 for Mexican Fiesta;
- From 6:00 AM Thursday, August 30, 2018 to 6:00 AM Tuesday, September 4, 2018 for Harley Fest.
- From 6:00 AM Friday, September 7, 2018 to 6:00 AM Monday, September 10, 2018 for Indian Summer Festival;
- From 6:00 AM Saturday, September 15, 2017 to 6:00 PM Saturday, September 15, 2017 for the Briggs and Al's run.
- From 6:00 AM Sunday, September 16, 2017 to 6:00 PM Sunday, September 16, 2017 for the Walk to End Alzheimer's.
- From 6:00 AM Sunday, September 23, 2017 to 6:00 PM Sunday, September 23, 2017 for the Susan G. Komen Race for the Cure.

40. Intelligent Transportation System (ITS) – Control Materials.

*Replace entire section titled **Standard spec 106.2 – Supply Source and Quality** with the following:*

Standard spec 106.2 – Supply Source and Quality

Add the following to standard spec 106.2:

The department will furnish a portion of equipment to be installed by the contractor. This department-furnished equipment includes the following:

Department-Furnished Items
Microwave Vehicle Detectors
Pole-Mounted Cabinets
Cellular Modems
Wireless Ethernet Bridges
Dynamic Message Signs and Controllers

Pick-up small department-furnished equipment, such as communications devices, cameras, and controllers, from the department's Statewide Traffic Operations Center (STOC), 433 W. St. Paul Ave., Milwaukee, WI 53203 at a mutually agreed upon time during normal state office hours. Contact the department's STOC at (414) 227-2166 to coordinate pick-up of equipment.

Transportation of the equipment between the electric shop and the field or interim location(s) shall be the responsibility of the contractor.

44. Polyester Polymer Concrete Overlay with Milling and Trial Overlay, Item SPV.0035.001.

*Replace paragraph ten under section titled **C.3.2 Application of the Overlay** with the following:*

Texture the overlay surface by longitudinal tining as soon as the condition of the polyester polymer concrete will permit. Use a steel tined tool or a finned float with a single row of fins. Grooves shall be approximately 3/16-in wide at 3/4- to 1-in on center with a depth of approximately 1/8-in. Do not tine within 1 ft of gutters. Tining may be performed manually provided that the finish obtained is satisfactory to the engineer.

77. Removing Asphaltic Concrete Overlay Special, Item SPV.0180.001.

*Replace entire section titled **C.1 Milling** with the following:*

C.1 Milling

Remove the entire thickness of the existing asphalt overlay, and also remove a minimum of 1/8" of the existing concrete deck surface. Do not remove more than 1/4" of the existing concrete deck surface. Perform milling in a way that prevents hooking or tearing of the reinforcing steel in the deck.

Existing steel reinforcement in the bridge deck should be anticipated to have minimal concrete cover. In some locations reinforcement may be exposed directly below the asphalt overlay with no concrete cover. Monitor the milling operations closely so the reinforcement is not damaged.

Use a self-propelled milling machine that is specially designed and constructed for milling bridge decks. It shall mill without tearing or gouging the concrete masonry underlying the deck overlay. The machine shall consist of a cutting drum with carbide or diamond tip teeth. Space the teeth on the drum to mill a surface finish that is acceptable to the engineer.

Shroud the machine to prevent discharge of any loosened material into adjacent work areas or live traffic lanes. Equip the machine with electronic devices that provide accurate depth, grade and slope control, and an acceptable dust control system.

Perform milling in a manner that precludes damage to the bridge floor and results in a uniform textured finish that:

- Is free of sharp protrusions;
- Has uniform transverse grooves that measure up to ¼-inch vertically and transversely

Windrowing or storing of the removed milled asphaltic concrete on the bridge is only permitted in connection with the continuous removal and pick-up operation. During nonworking hours, clear the bridge of all materials and equipment.

If milling is impractical, as along curb faces, expansion joints, drains, and crash cushion anchor bolts, remove the asphaltic concrete overlay and top surface of the concrete deck using chippers conforming to standard spec 509.3.4.

Remove any residual asphalt material adhered to the concrete deck or exposed reinforcement using small tools or chippers as necessary to avoid damage to existing steel reinforcement. Payment for such removal is included with this bid item.

Replace or repair existing steel reinforcement that is damaged or exposed by the milling operations, as directed by the engineer. Replacement of reinforcement will be paid for separately under the bid item "Bar Steel Reinforcement HS Coated Structures".

*Replace the last paragraph under section titled **E Payment** with the following:*

Payment is full compensation for removing the asphaltic concrete with or without an underlayment of waterproof membrane; removing the existing concrete deck to the thickness specified; cleaning the concrete surfaces; and for properly disposing of all materials.

81. Removing Overhead Freeway DMS, Item 204.9060.S.004.

A Description

This special provision describes removing an existing full-matrix overhead freeway dynamic message sign, controller, and cables; removing the sign and controller; storing them for removal of desired parts by the Department, and disposing of remaining undesired parts.

B Materials

Existing sign, controller, control cables, and power wires.

Existing sign assembly consists of dynamic message sign, hardware for mounting sign on sign structure, and sign controller. Cabling for the dynamic message sign and controller is contained in rigid conduit. The above components are mounted to an overhead freeway DMS structure.

Removed dynamic message sign will be a Mark IV Industries LTD. 18-Inch Light Emitting Diode (LED), Full Matrix, Type 1 sign. The nominal dimensions of the sign are 310-Inches long, 106-Inches high, 36-Inches wide at the bottom and 42-Inches wide at the top.

C Construction

Carefully remove the dynamic message sign and controller for storage, parts removal, and later disposal. Prior to removing the sign and controller, the contractor may request that it be inspected to determine condition. Once removal has started, the contractor shall be responsible for any damage to the sign or controller. It will be the choice of the contractor on how best to remove the sign from the overhead structure. Replace or repair any damaged components at no additional expense to the department.

Store the dynamic message sign and controller in a secure and safe location until such time as the Department can have a representative remove desired parts from the sign. The Department will complete the parts removal process within 10 non-holiday business days of the sign being removed from the overhead structure and access being granted to the Department representative. Contact Dean Beekman at (414) 227-2154 for coordination of parts removal by the Department 30 days prior to the sign being made available for parts removal. After the Department has obtained all desired parts from the sign, the contractor shall properly dispose of all remaining undesired parts off of the project area. Remaining undesired parts will include the DMS enclosure.

D Measurement

The department will measure Removing Overhead Freeway DMS by the unit, acceptably removed and stored for parts removal.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.004	Removing Overhead Freeway DMS	Each

Payment is full compensation for removing the DMS, sign controller and cables, including any necessary wiring disconnections; for storing the sign for spare parts removal; any necessary restoration; and for disposing of the sign enclosure and remaining components after spare parts removal.

82. Removing Controller Cabinet, Item 204.9060.S.005.

A Description

This special provision describes removing an existing controller cabinet.

B (Vacant)

C Construction

Remove controller cabinets at the locations shown on the plans, or as directed by the engineer. Salvage and store the cabinets and all contents for pick up by the department.

Do not remove the existing ITS control cabinets, or any other associated equipment until necessary, or as directed by the engineer. Carefully remove the existing cabinets from the concrete bases, together with all components in such a manner as to safeguard all parts and wiring from damage or loss. Salvage and store the cabinet and contents for pick up by the department.

Prior to removing the existing ITS control cabinets, remove all cables being terminated in the cabinet. Cut existing cables flush with cabinet base and cap existing conduits. Dispose of the cables properly away from the project area.

D Measurement

The department will measure Removing Controller Cabinet by the unit, acceptably removed, salvaged, and stored.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.005	Removing Controller Cabinet	Each

Payment is full compensation for removal and storage of the controller cabinet; disconnecting all associated wires and cables; and for capping existing conduits

83. Removing Controller Cabinet Base, Item 204.9060.S.006.

A Description

This special provision describes removing an existing controller cabinet concrete base.

B Materials

Existing controller cabinet base, including concrete masonry, ground rods, masonry anchors, and restoration materials such as topsoil, seeding, mulch, and fertilizer in accordance to the pertinent provisions of sections 201, 625, 627, 629, 630, 636, and 640 of the standard specifications.

C Construction

Remove and dispose of the concrete foundation and all other pertinent materials, and restore the disturbed area by placing 4-inches of topsoil, and fertilize, seed, and mulch all disturbed areas in accordance to the pertinent requirements of the standard specifications.

D Measurement

The department will measure Removing Controller Cabinet Base by the unit, removed from the ground, removed from the project site, and the disturbed area restored in accordance to the contract.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.006	Removing Controller Cabinet Base	Each

Payment is full compensation for removing and disposing of a concrete controller cabinet base, including masonry anchors, ground rods, and concrete masonry; and for topsoil, fertilizer, seed and mulch.

84. Install Overhead Freeway DMS Full Matrix, Item 678.0100.S.

A Description

This special provision describes installing a state-furnished, or an existing salvaged, dynamic message sign on a new sign structure.

B Materials

The department will provide the sign, or it will be salvaged, controller, and the control cable. The control cable will be multi-mode fiber optic cable.

Use an AWG #6 copper wire or equivalent bonding straps to bond the sign and cabinet to the structure. Use an AWG #6 solid, bare copper wire to bond the sign structure to the ground rod(s).

1. For the four wires carrying 120/240 VAC power from the cabinet to the sign, use single conductor, stranded copper, 120/240 VAC, XLP insulated, USE rated wire. Size the wire to carry the maximum amperage permitted by the main breakers in the sign.

Provide a 100-amp 120/240-VAC load center in the controller cabinet, along with breakers recommended by the sign manufacturer.

C Construction

Install the load center so that the main breakers control all power to the sign and cabinet. Provide at least three branch circuits, one for the sign, one for the controller and communication equipment, and one for all cabinet accessories, such as fan, light, and heater. Only protect the branch serving the controller and communication equipment with the second stage of the surge protector. Connect the power and control cables according to the manufacturer's recommendations. Run the cables in rigid metallic conduit or flexible metallic conduit, or combination of these, within the sign structure.

Bond the bottom of the sign structure to one or more ground rods. Use exothermic welding at each end of the ground wire, unless the steel structure has a suitable grounding lug. Use a device that measures resistance to ground using the three-point fall-of-potential method to ensure that the resistance from the sign's ground bar to ground does not exceed 4 ohms. Add more ground rods if necessary to achieve this requirement.

D Measurement

The department will measure Install Overhead Freeway DMS Full Matrix by each sign, acceptably installed and tested.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
678.0100.S	Install Overhead Freeway DMS Full Matrix	Each

Payment is full compensation for installing and testing the sign and controller; providing cables, conduits, and fittings; for testing the sign; and for transporting materials.
678-010 (20100630)

Schedule of Items

Attached, dated June 6, 2017, are the revised Schedule of Items Pages 1 - 8.

Plan Sheets

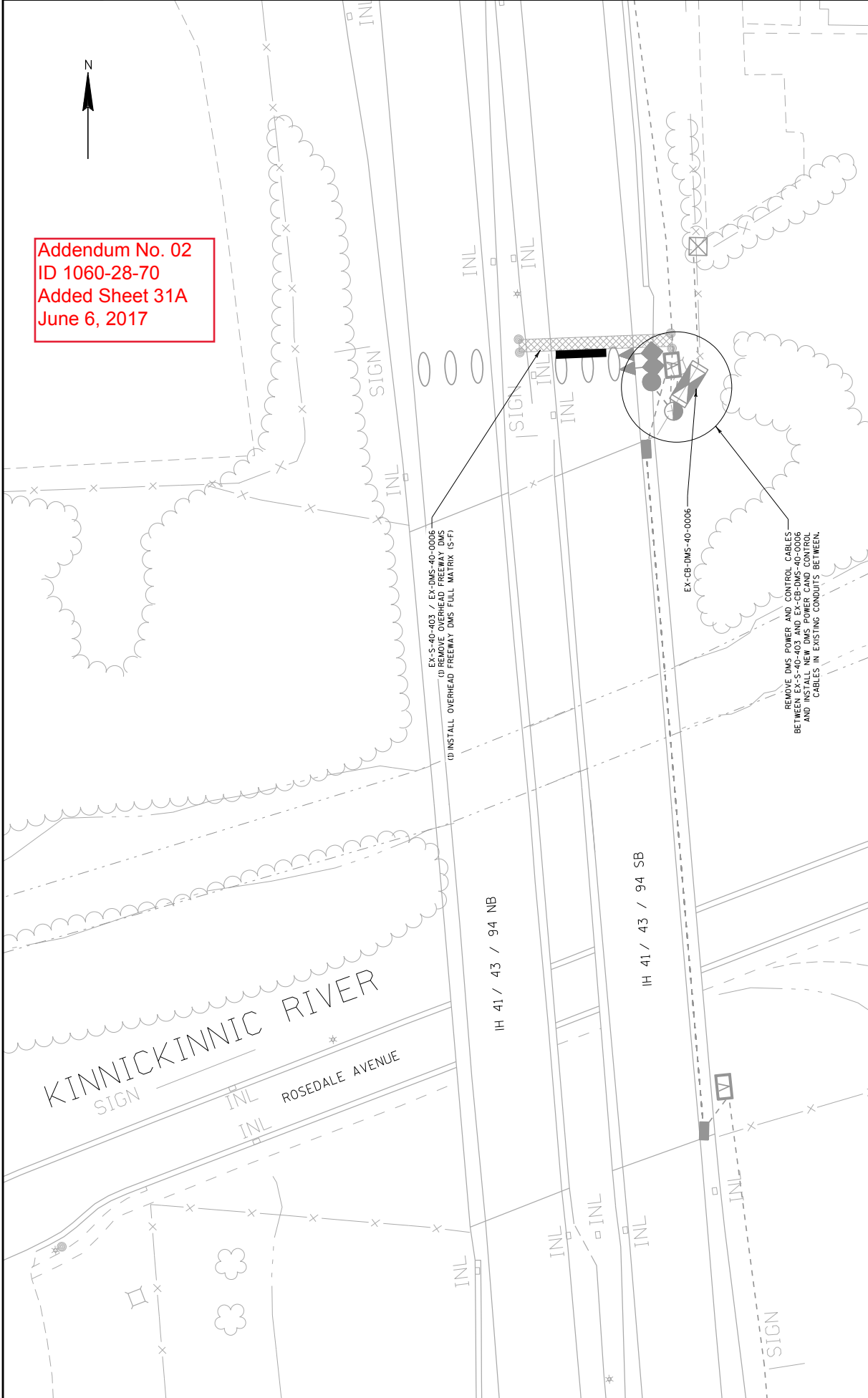
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 52, 118 – 120, 128, 142 – 145, 185 – 187, 205, 256, 264, 271, 279, 285, and 294.

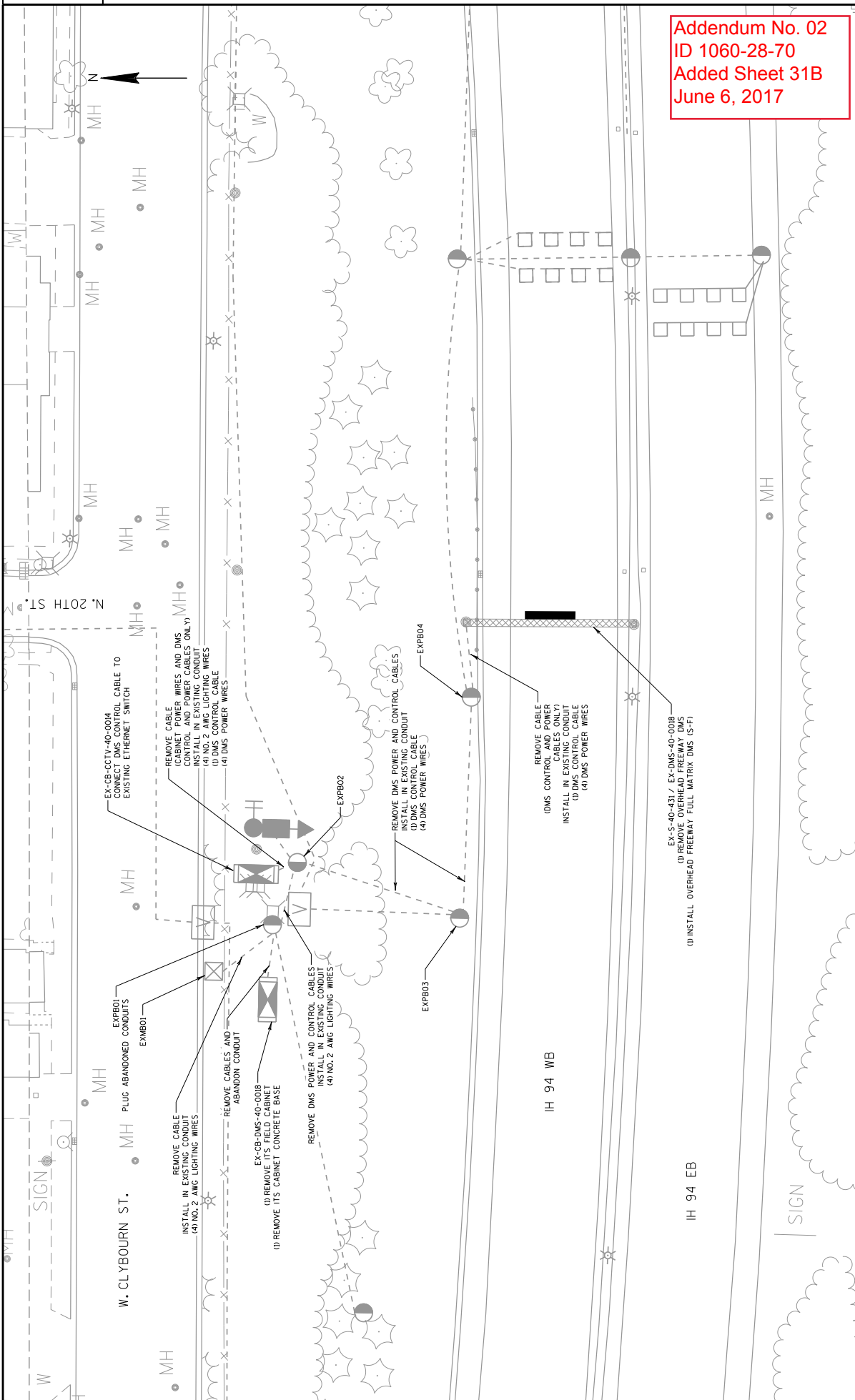
Added: 31A, 31B, 52A, 67A, 67B, 148A - 148T, 164A, 164B, 254A - 254O, 349A and 349B.

END OF ADDENDUM



Addendum No. 02
ID 1060-28-70
Added Sheet 31A
June 6, 2017





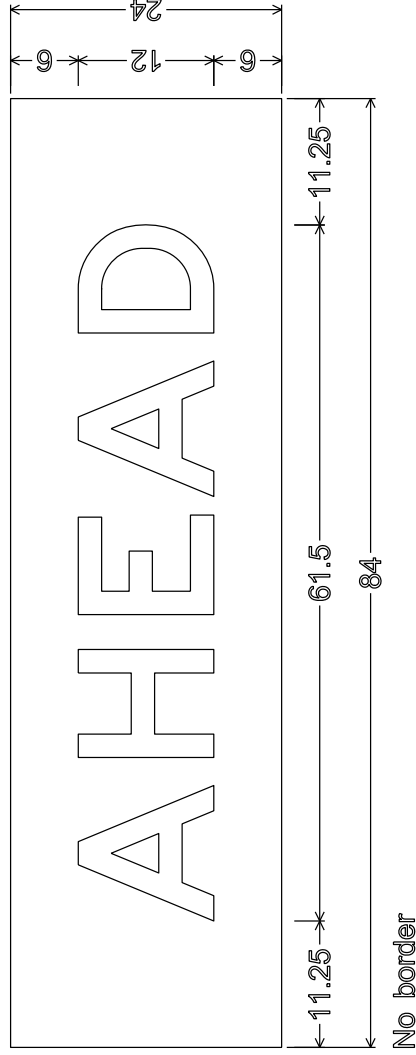
Addendum No. 02
 ID 1060-28-70
 Added Sheet 31B
 June 6, 2017

FILE NAME : \\mlw400\ngprproj\66067\10602870_milc_r_esur\face\10602870_ftms.dgn

NOTES

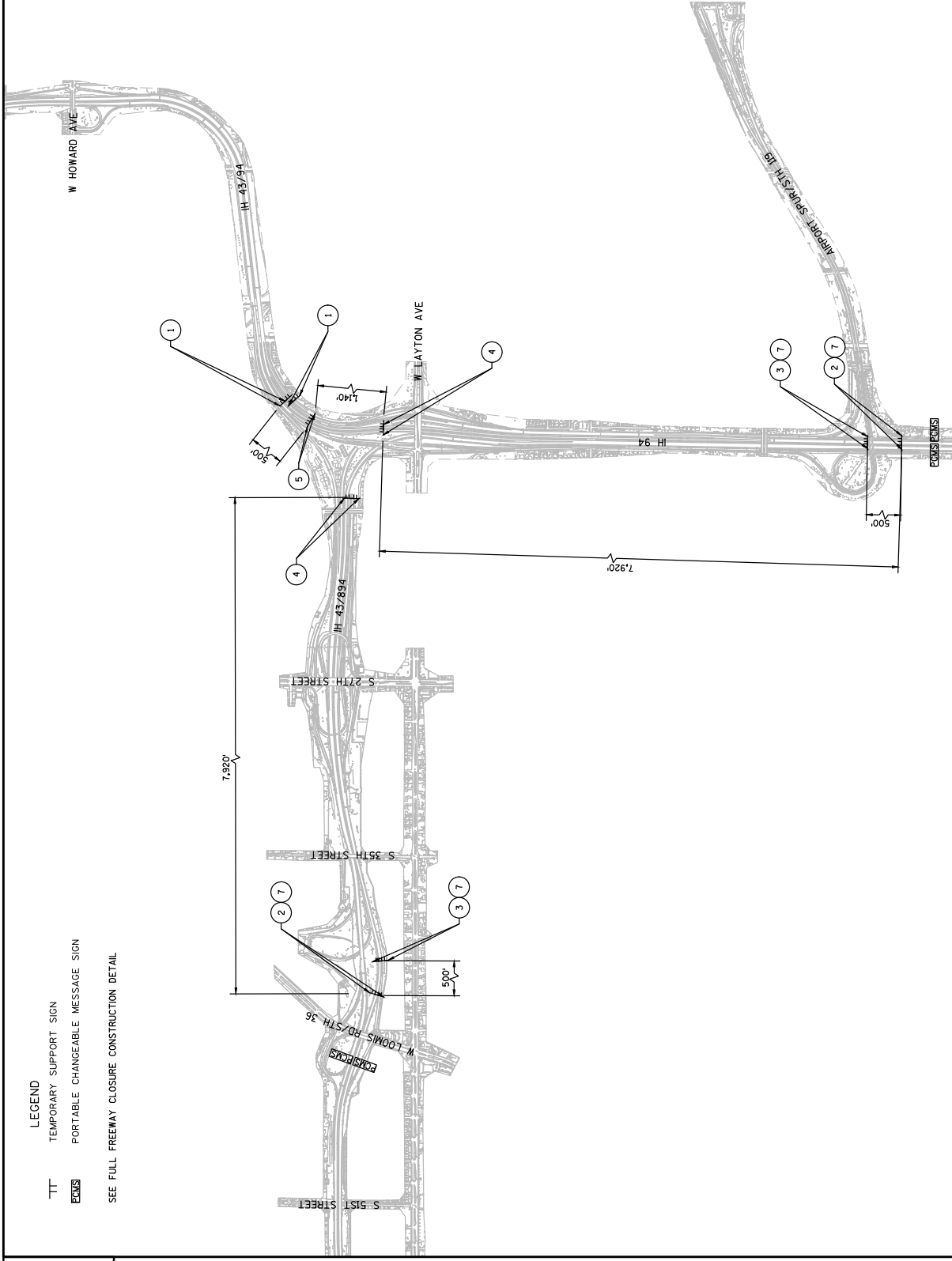
1. Fixed Message Type II Signs - Type F Reflective
2. Color:
 - Background - Orange
 - Message - Black
3. Message Series - E

Sign Base Material .040" aluminum

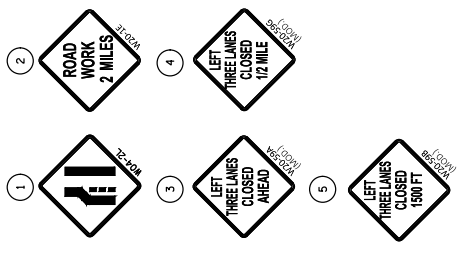


104

Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 52A
June 6, 2017



LEGEND
 TT TEMPORARY SUPPORT SIGN
 PORTABLE CHANGEABLE MESSAGE SIGN
 SEE FULL FREEWAY CLOSURE CONSTRUCTION DETAIL

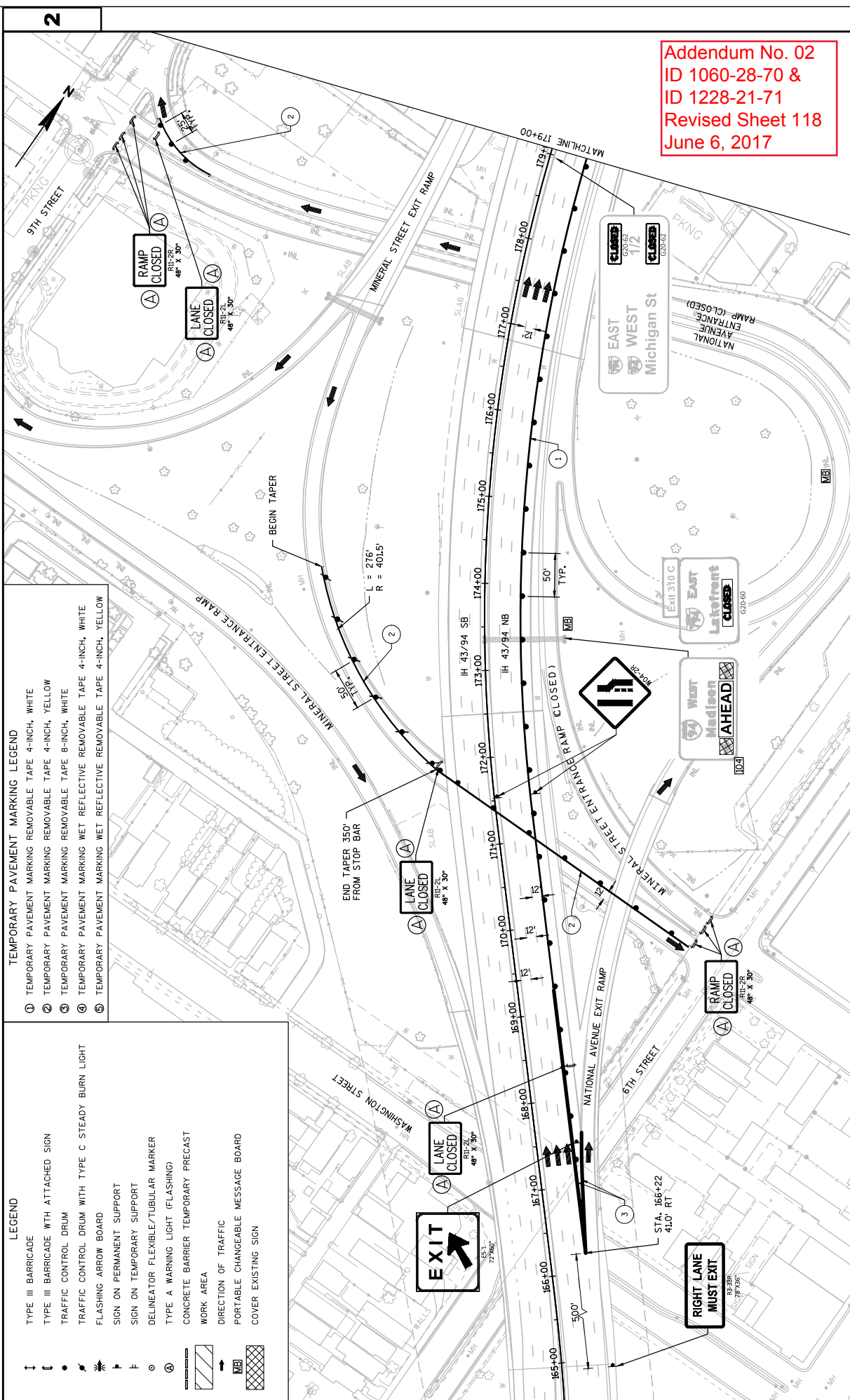


Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 67B
 June 6, 2017

Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Revised Sheet 118
June 6, 2017

- TEMPORARY PAVEMENT MARKING LEGEND**
- ① TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH, WHITE
 - ② TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH, YELLOW
 - ③ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH, WHITE
 - ④ TEMPORARY PAVEMENT MARKING WET REFLECTIVE REMOVABLE TAPE 4-INCH, WHITE
 - ⑤ TEMPORARY PAVEMENT MARKING WET REFLECTIVE REMOVABLE TAPE 4-INCH, YELLOW

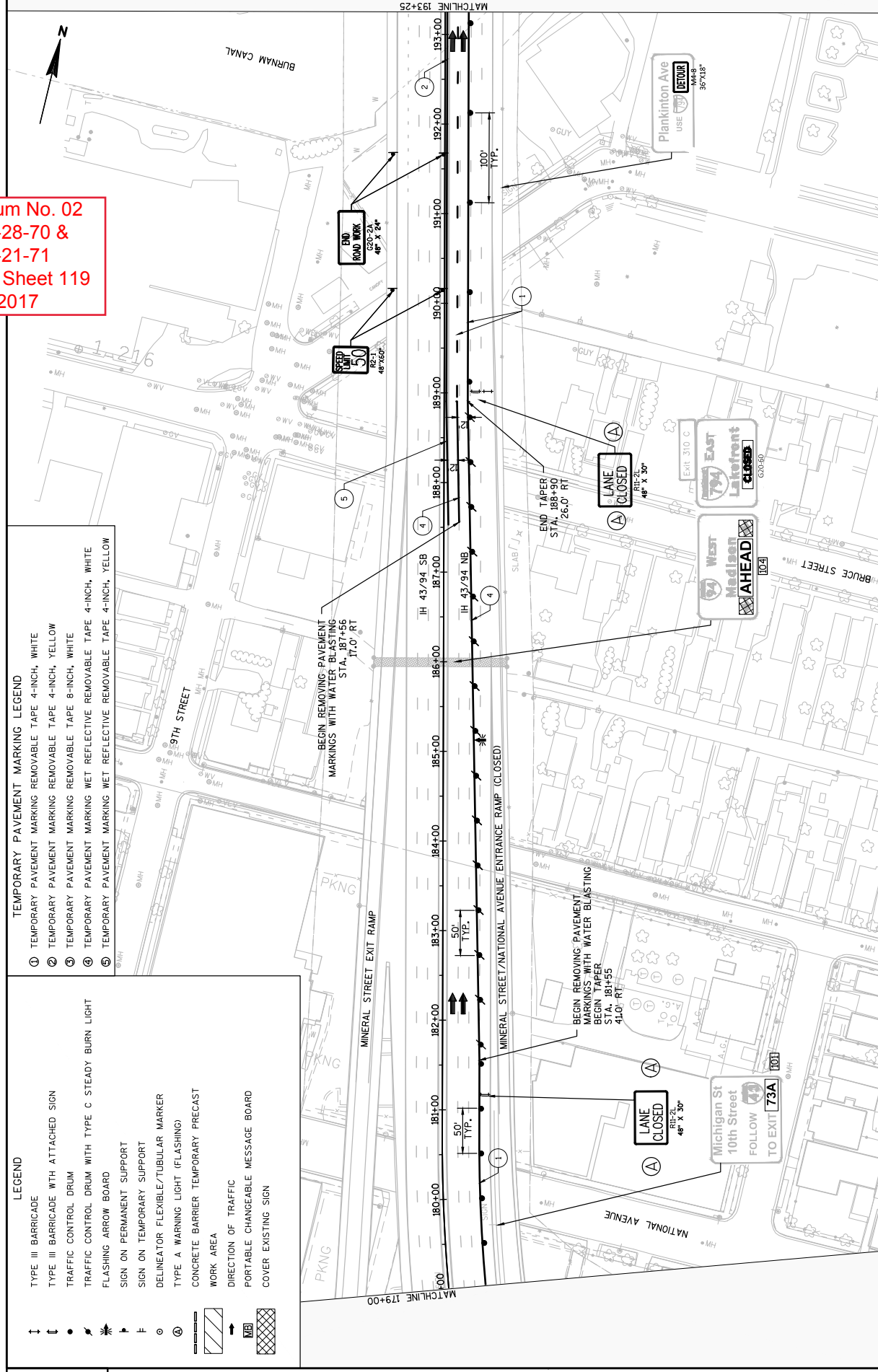
- LEGEND**
- ↑ TYPE III BARRICADE
 - ↑ TYPE III BARRICADE WITH ATTACHED SIGN
 - TRAFFIC CONTROL DRUM
 - ⊙ TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
 - ⊙ FLASHING ARROW BOARD
 - ⊙ SIGN ON TEMPORARY SUPPORT
 - ⊙ DELINEATOR FLEXIBLE/TUBULAR MARKER
 - ⊙ TYPE A WARNING LIGHT (FLASHING)
 - ⊙ CONCRETE BARRIER TEMPORARY PRECAST
 - ▭ WORK AREA
 - DIRECTION OF TRAFFIC
 - ⊙ PORTABLE CHANGEABLE MESSAGE BOARD
 - ▭ COVER EXISTING SIGN



- TEMPORARY PAVEMENT MARKING LEGEND**
- ① TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH, WHITE
 - ② TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH, YELLOW
 - ③ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH, WHITE
 - ④ TEMPORARY PAVEMENT MARKING WET REFLECTIVE REMOVABLE TAPE 4-INCH, WHITE
 - ⑤ TEMPORARY PAVEMENT MARKING WET REFLECTIVE REMOVABLE TAPE 4-INCH, YELLOW

- LEGEND**
- ↑ TYPE III BARRICADE
 - ↑ TYPE III BARRICADE WITH ATTACHED SIGN
 - TRAFFIC CONTROL DRUM
 - ⊙ TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
 - ⊙ FLASHING ARROW BOARD
 - ⊙ SIGN ON PERMANENT SUPPORT
 - ⊙ SIGN ON TEMPORARY SUPPORT
 - DELINEATOR FLEXIBLE/TUBULAR MARKER
 - TYPE A WARNING LIGHT (FLASHING)
 - CONCRETE BARRIER TEMPORARY PRECAST
 - ▭ WORK AREA
 - DIRECTION OF TRAFFIC
 - ⊞ PORTABLE CHANGEABLE MESSAGE BOARD
 - ⊞ COVER EXISTING SIGN

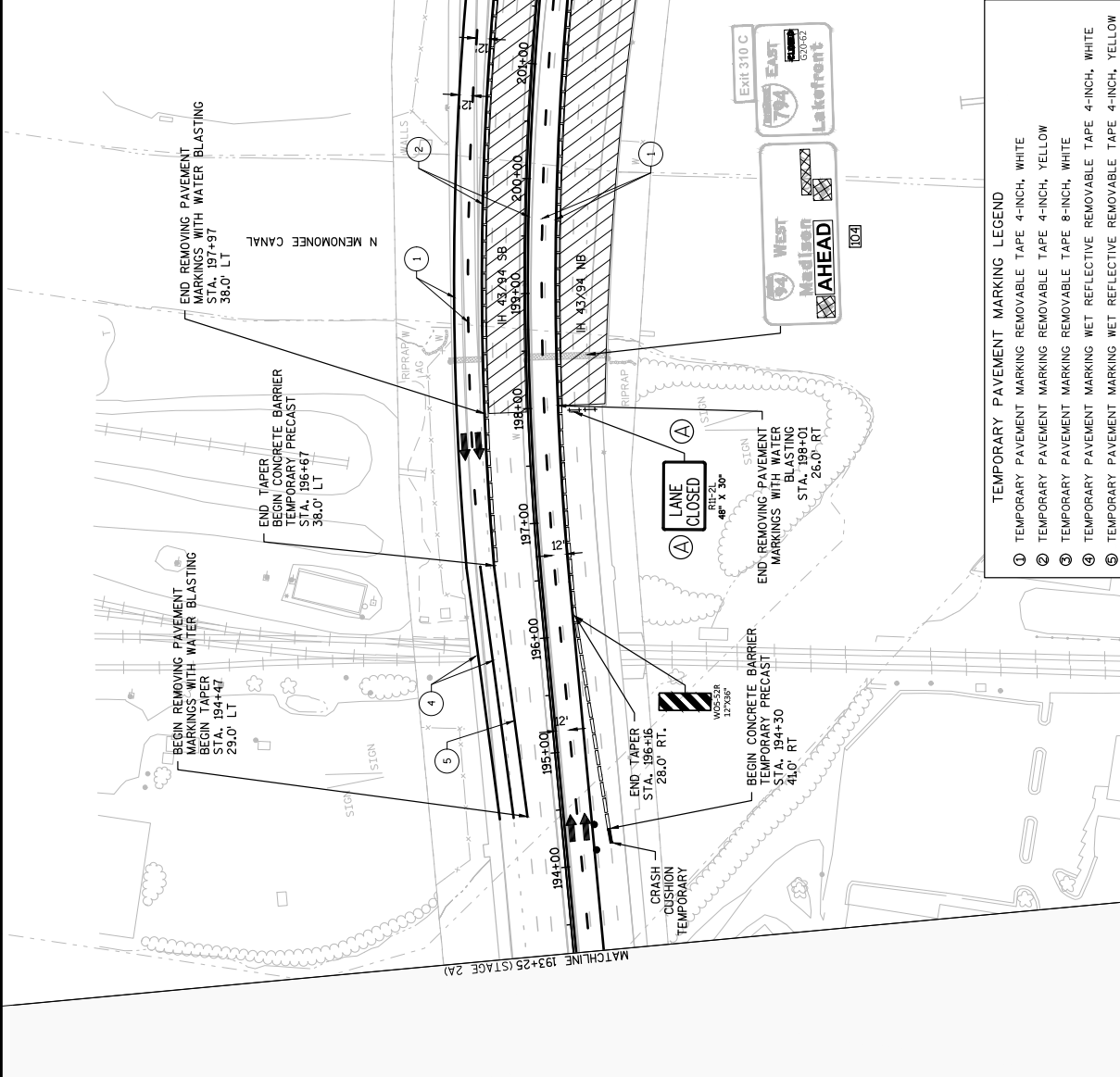
Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Revised Sheet 119
June 6, 2017





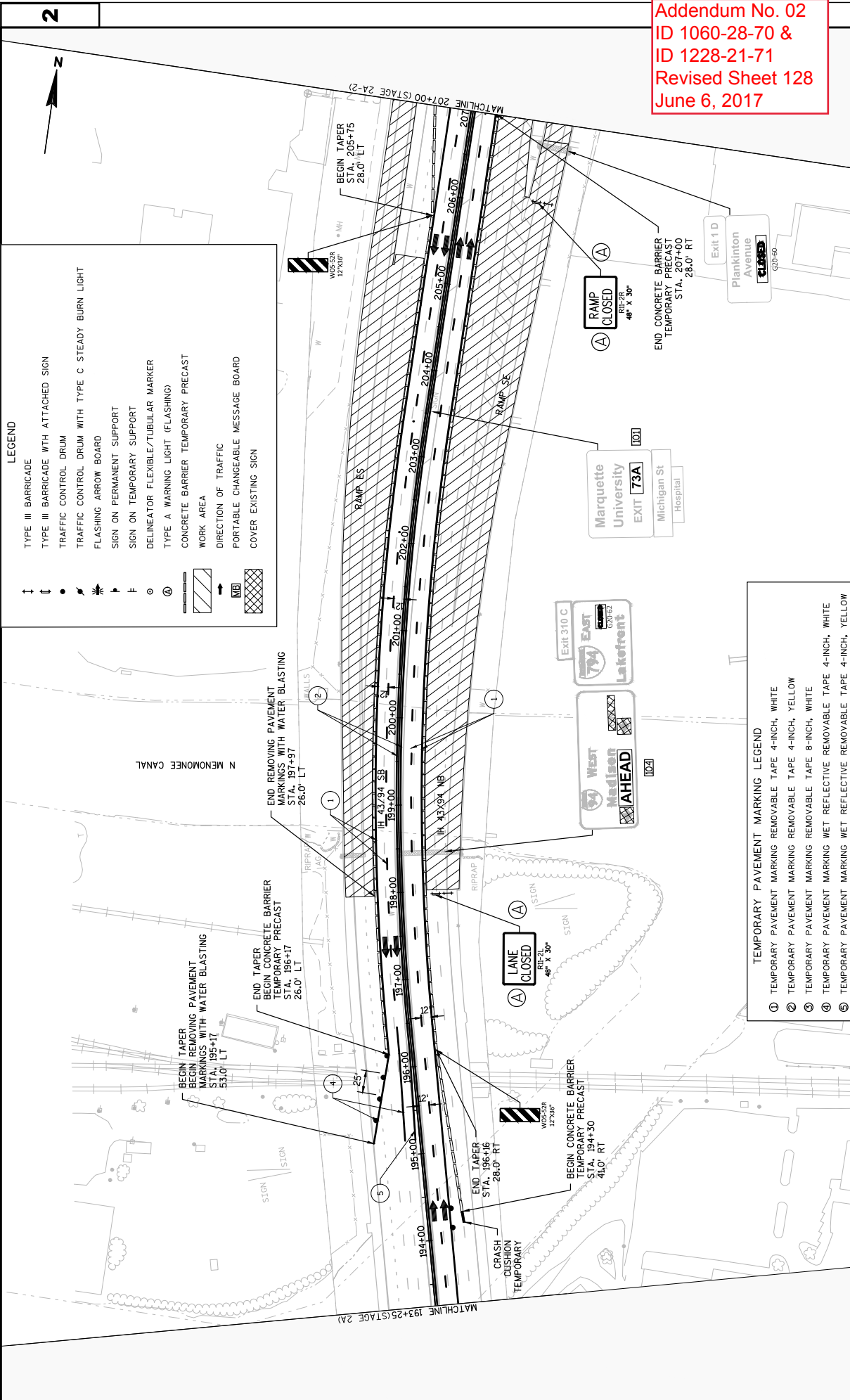
Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Revised Sheet 120
June 6, 2017

- LEGEND**
- ↑ TYPE III BARRICADE
 - ↑ TYPE III BARRICADE WITH ATTACHED SIGN
 - TRAFFIC CONTROL DRUM
 - ⚡ TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
 - ⚡ FLASHING ARROW BOARD
 - ⚡ SIGN ON PERMANENT SUPPORT
 - ⚡ SIGN ON TEMPORARY SUPPORT
 - DELINEATOR FLEXIBLE/TUBULAR MARKER
 - ⊙ TYPE A WARNING LIGHT (FLASHING)
 - ⊙ CONCRETE BARRIER TEMPORARY PRECAST
 - ▨ WORK AREA
 - DIRECTION OF TRAFFIC
 - Ⓜ PORTABLE CHANGEABLE MESSAGE BOARD
 - Ⓜ COVER EXISTING SIGN



- TEMPORARY PAVEMENT MARKING LEGEND**
- ① TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH, WHITE
 - ② TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH, YELLOW
 - ③ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH, WHITE
 - ④ TEMPORARY PAVEMENT MARKING WET REFLECTIVE REMOVABLE TAPE 4-INCH, WHITE
 - ⑤ TEMPORARY PAVEMENT MARKING WET REFLECTIVE REMOVABLE TAPE 4-INCH, YELLOW

Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Revised Sheet 128
 June 6, 2017



LEGEND

↑	TYPE III BARRICADE
↓	TYPE III BARRICADE WITH ATTACHED SIGN
•	TRAFFIC CONTROL DRUM
⊙	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
↔	FLASHING ARROW BOARD
⊥	SIGN ON PERMANENT SUPPORT
⊥	SIGN ON TEMPORARY SUPPORT
○	DELINEATOR FLEXIBLE/TUBULAR MARKER
⊙	TYPE A WARNING LIGHT (FLASHING)
⊙	CONCRETE BARRIER TEMPORARY PRECAST
▨	WORK AREA
→	DIRECTION OF TRAFFIC
MB	PORTABLE CHANGEABLE MESSAGE BOARD
▨	COVER EXISTING SIGN

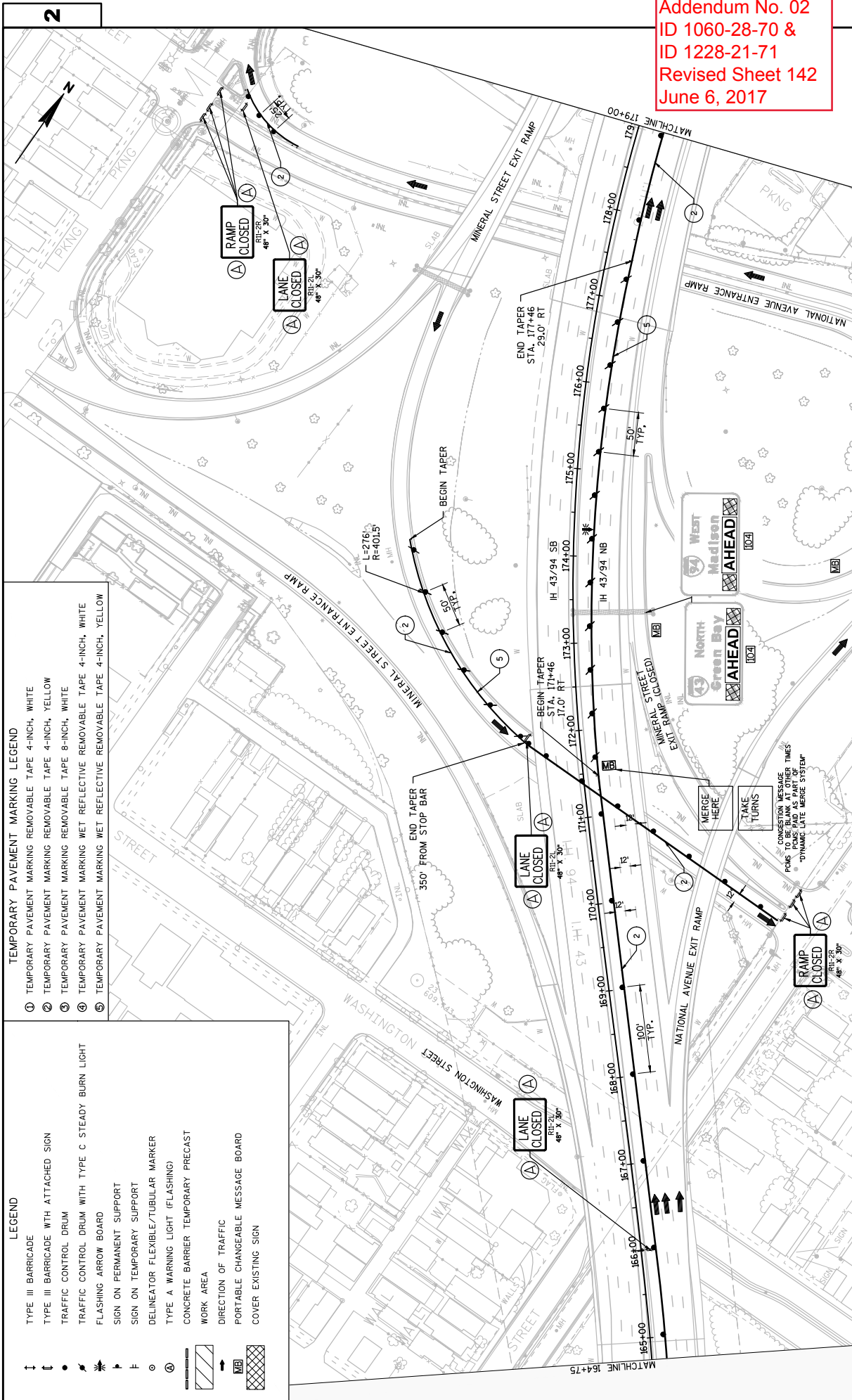
TEMPORARY PAVEMENT MARKING LEGEND

①	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH, WHITE
②	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH, YELLOW
③	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH, WHITE
④	TEMPORARY PAVEMENT MARKING WET REFLECTIVE REMOVABLE TAPE 4-INCH, WHITE
⑤	TEMPORARY PAVEMENT MARKING WET REFLECTIVE REMOVABLE TAPE 4-INCH, YELLOW

PROJECT NO: 1060-28-70/1228-21-71 HWY: IH 43/794/94 COUNTY: MILWAUKEE TRAFFIC CONTROL PLAN - STAGE 2A-2 IH 43/94 NB/SB SHEET 128 E

FILE NAME : C:\PW\B1-LOCAL\BAKER_PROJECTS\DNA-LADZINSKI\00341235\025081.TC.DWG LAYOUT NAME - 025081.TC PLOT DATE : 4/7/2017 12:16 PM PLOT BY : LAOZINSKI, DANA PLOT NAME : PLOT SCALE : 1 IN:100 FT WISDOT/CADD SHEET 42

Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Revised Sheet 142
 June 6, 2017



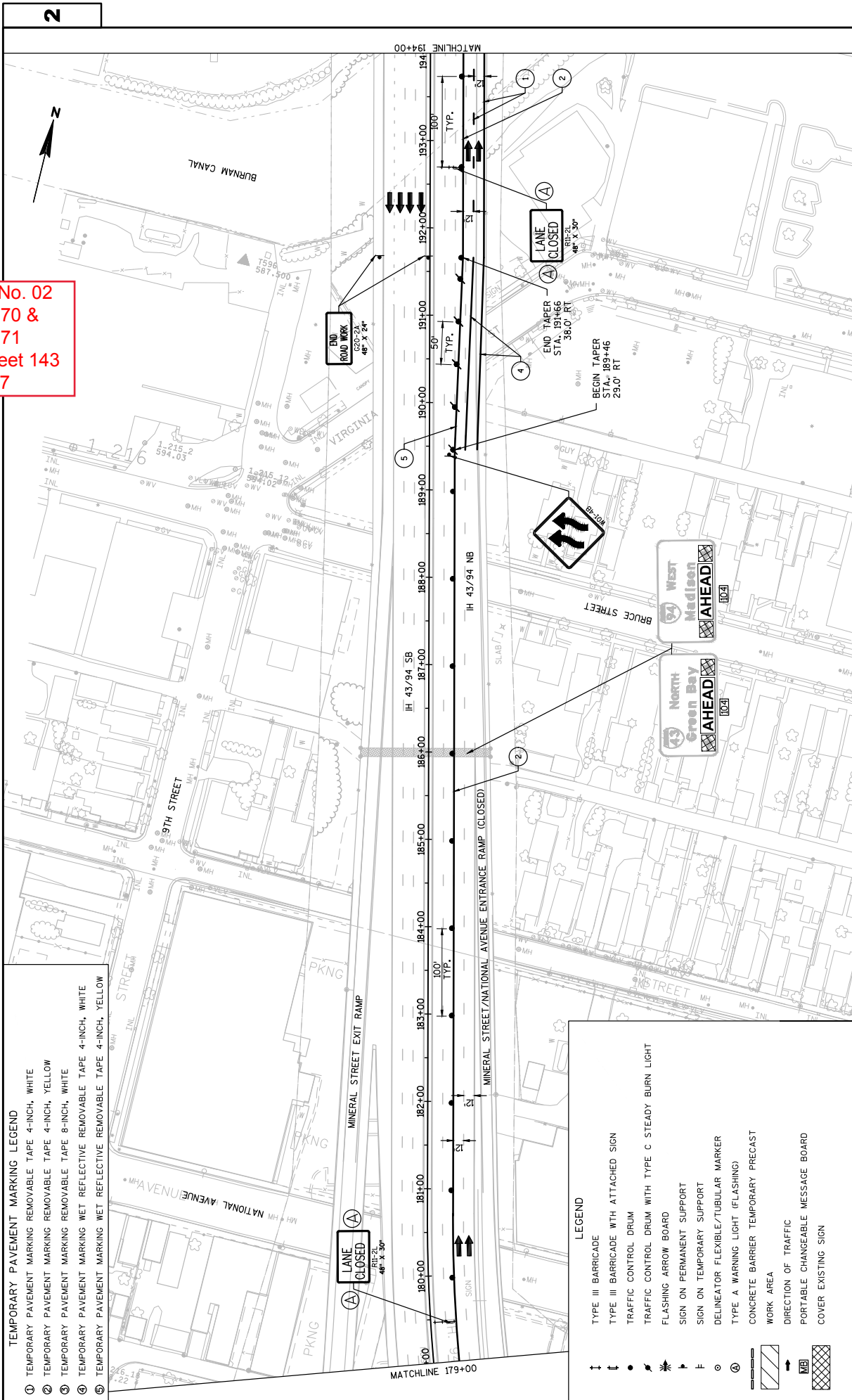
- TEMPORARY PAVEMENT MARKING LEGEND**
- ① TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH, WHITE
 - ② TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH, YELLOW
 - ③ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH, WHITE
 - ④ TEMPORARY PAVEMENT MARKING WET REFLECTIVE REMOVABLE TAPE 4-INCH, WHITE
 - ⑤ TEMPORARY PAVEMENT MARKING WET REFLECTIVE REMOVABLE TAPE 4-INCH, YELLOW

- LEGEND**
- ↑ TYPE III BARRICADE
 - ↑ TYPE III BARRICADE WITH ATTACHED SIGN
 - TRAFFIC CONTROL DRUM
 - ⊙ TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
 - ⊙ FLASHING ARROW BOARD
 - ⊙ SIGN ON PERMANENT SUPPORT
 - ⊙ SIGN ON TEMPORARY SUPPORT
 - DELINEATOR FLEXIBLE/TUBULAR MARKER
 - TYPE A WARNING LIGHT (FLASHING)
 - CONCRETE BARRIER TEMPORARY PRECAST
 - ▭ WORK AREA
 - DIRECTION OF TRAFFIC
 - ▭ PORTABLE CHANGEABLE MESSAGE BOARD
 - ▭ COVER EXISTING SIGN

PROJECT NO: 1060-28-70/1228-21-71 HWY: IH 43/794/94 COUNTY: MILWAUKEE TRAFFIC CONTROL PLAN - STAGE 3 IH 43/94 NB/SB SHEET 142

FILE NAME : C:\PW\RT-LOCAL\BANKER_PROJECTS\0ANA-LADZINSKI\00341235\025093.TC.DWG LAYOUT NAME - 025095.TC PLOT DATE : 4/7/2017 11:24 AM PLOT BY : LAOZINSKI, DANA PLOT NAME : WISDOT/CADD SHEET 42

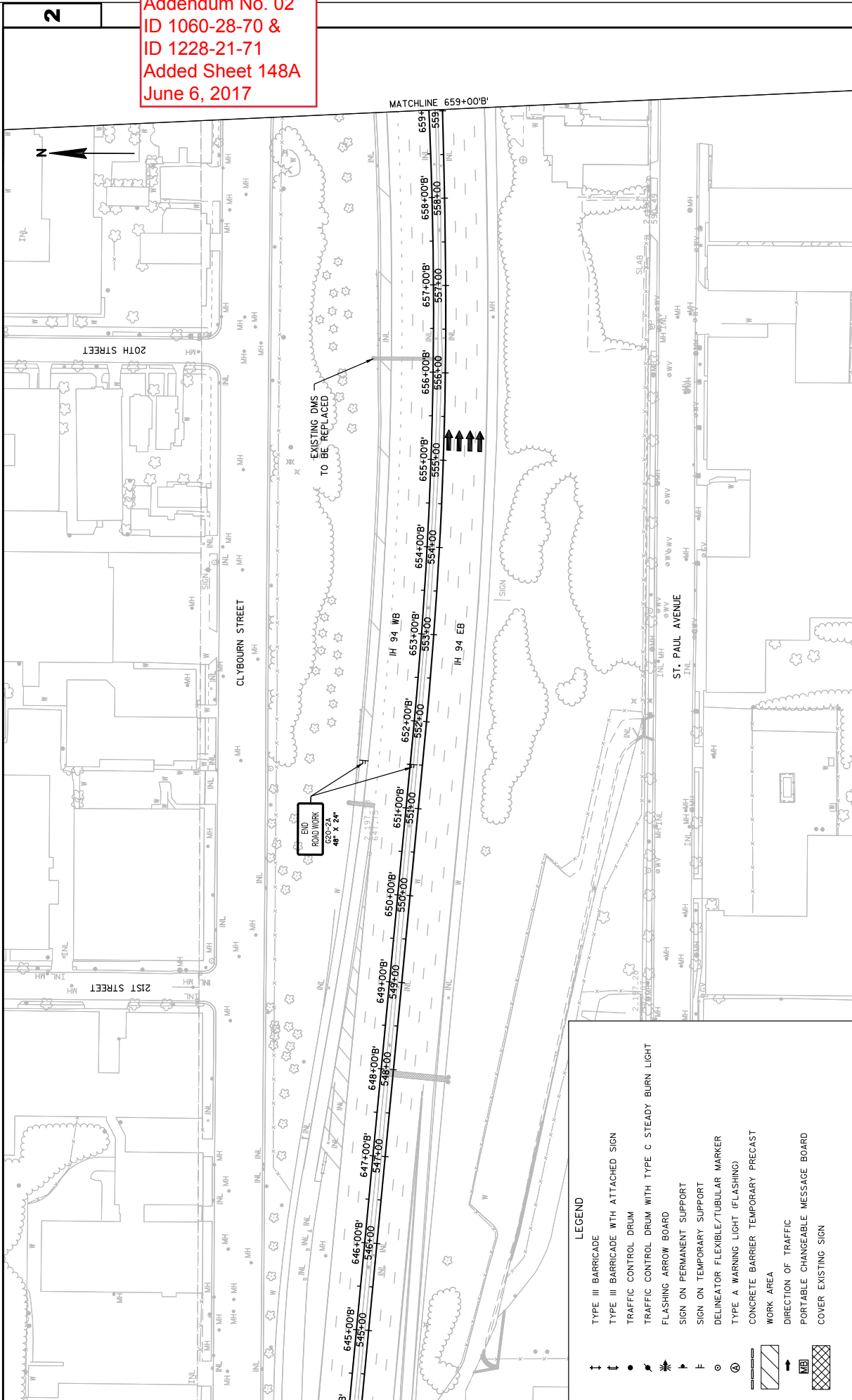
Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Revised Sheet 143
 June 6, 2017



- TEMPORARY PAVEMENT MARKING LEGEND**
- ① TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH, WHITE
 - ② TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH, YELLOW
 - ③ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH, WHITE
 - ④ TEMPORARY PAVEMENT MARKING WET REFLECTIVE REMOVABLE TAPE 4-INCH, WHITE
 - ⑤ TEMPORARY PAVEMENT MARKING WET REFLECTIVE REMOVABLE TAPE 4-INCH, YELLOW

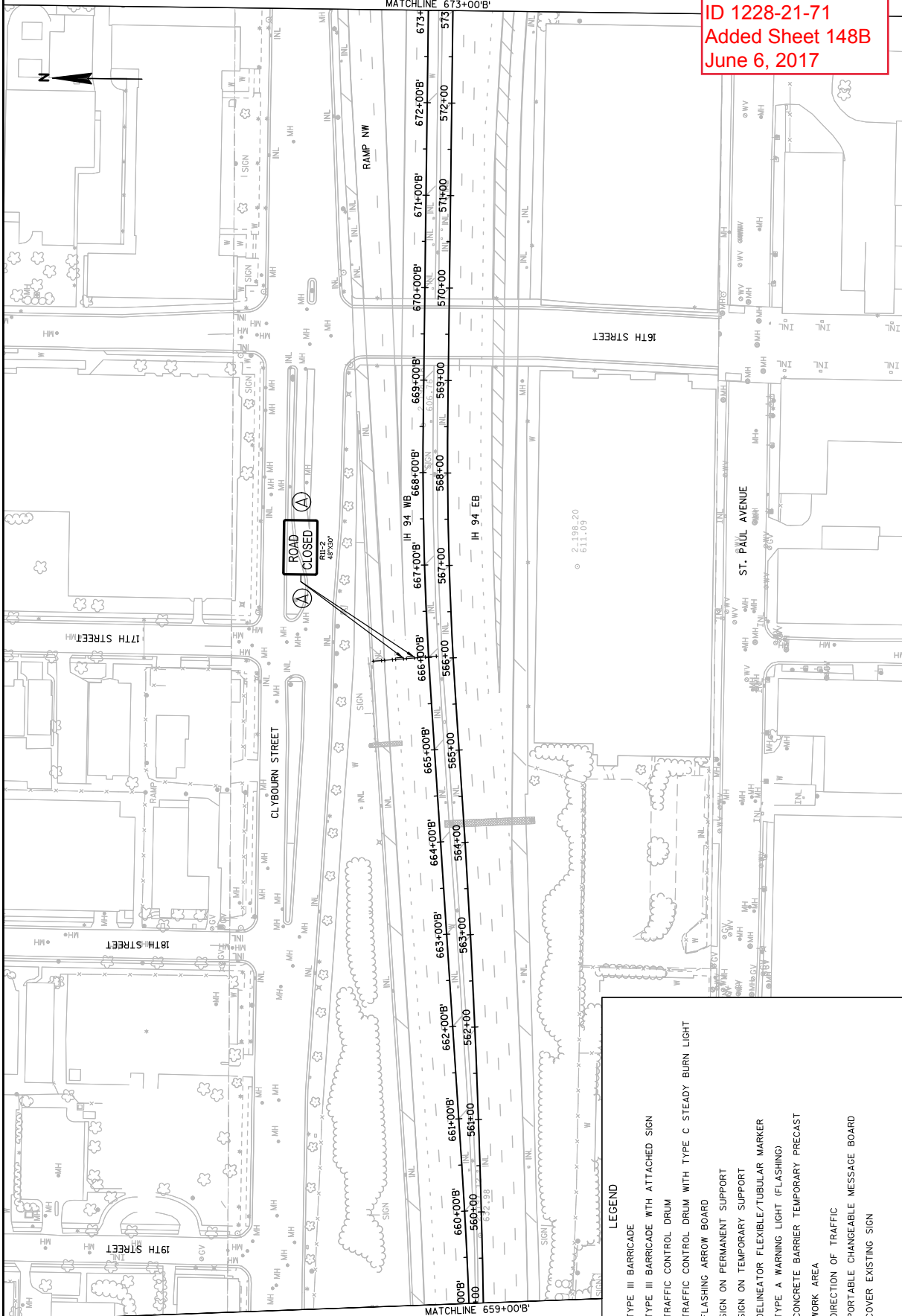
- LEGEND**
- ↑ TYPE III BARRICADE
 - ↑ TYPE III BARRICADE WITH ATTACHED SIGN
 - TRAFFIC CONTROL DRUM
 - ⚡ FLASHING ARROW BOARD
 - ⊥ SIGN ON PERMANENT SUPPORT
 - ⊥ SIGN ON TEMPORARY SUPPORT
 - DELINEATOR FLEXIBLE/TUBULAR MARKER
 - ⊙ TYPE A WARNING LIGHT (FLASHING)
 - ▭ CONCRETE BARRIER TEMPORARY PRECAST
 - ▭ WORK AREA
 - ➔ DIRECTION OF TRAFFIC
 - ⊞ PORTABLE CHANGEABLE MESSAGE BOARD
 - ⊞ COVER EXISTING SIGN

Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 148A
 June 6, 2017



LEGEND

↑	TYPE III BARRICADE
↓	TYPE III BARRICADE WITH ATTACHED SIGN
●	TRAFFIC CONTROL DRUM
⚡	FLASHING ARROW BOARD
⬆	SIGN ON PERMANENT SUPPORT
⬆	SIGN ON TEMPORARY SUPPORT
⊙	DELINATOR FLEXIBLE/TUBULAR MARKER
⊙	TYPE A WARNING LIGHT (FLASHING)
▬	CONCRETE BARRIER TEMPORARY PRECAST
▨	WORK AREA
→	DIRECTION OF TRAFFIC
Ⓜ	PORTABLE CHANGEABLE MESSAGE BOARD
⊞	COVER EXISTING SIGN

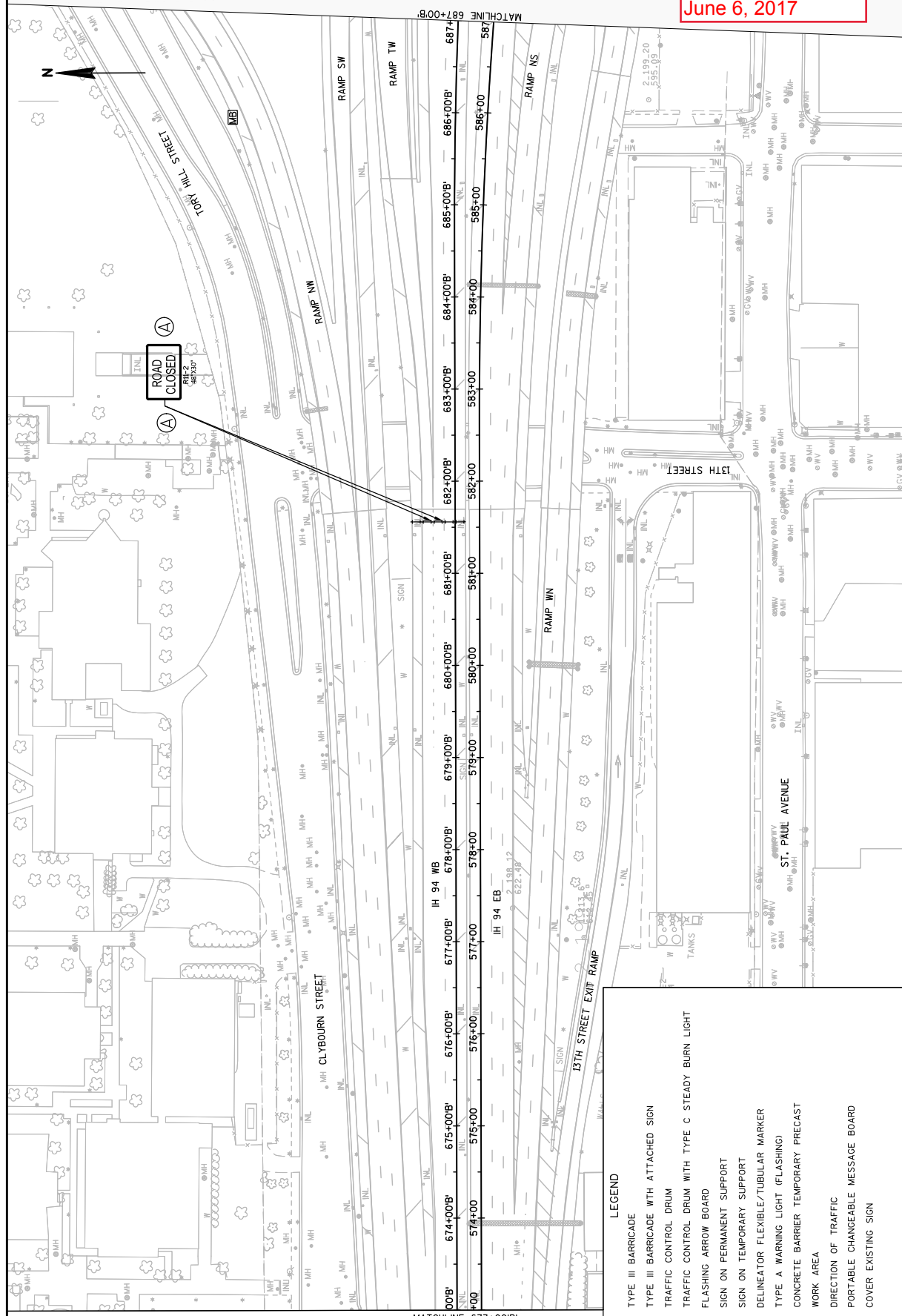


Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 148B
 June 6, 2017

LEGEND

↑	TYPE III BARRICADE
↑	TYPE III BARRICADE WITH ATTACHED SIGN
●	TRAFFIC CONTROL DRUM
⚡	FLASHING ARROW BOARD
⬇	SIGN ON PERMANENT SUPPORT
○	SIGN ON TEMPORARY SUPPORT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER
⊙	TYPE A WARNING LIGHT (FLASHING)
▨	CONCRETE BARRIER TEMPORARY PRECAST
▨	WORK AREA
→	DIRECTION OF TRAFFIC
Ⓜ	PORTABLE CHANGEABLE MESSAGE BOARD
Ⓜ	COVER EXISTING SIGN

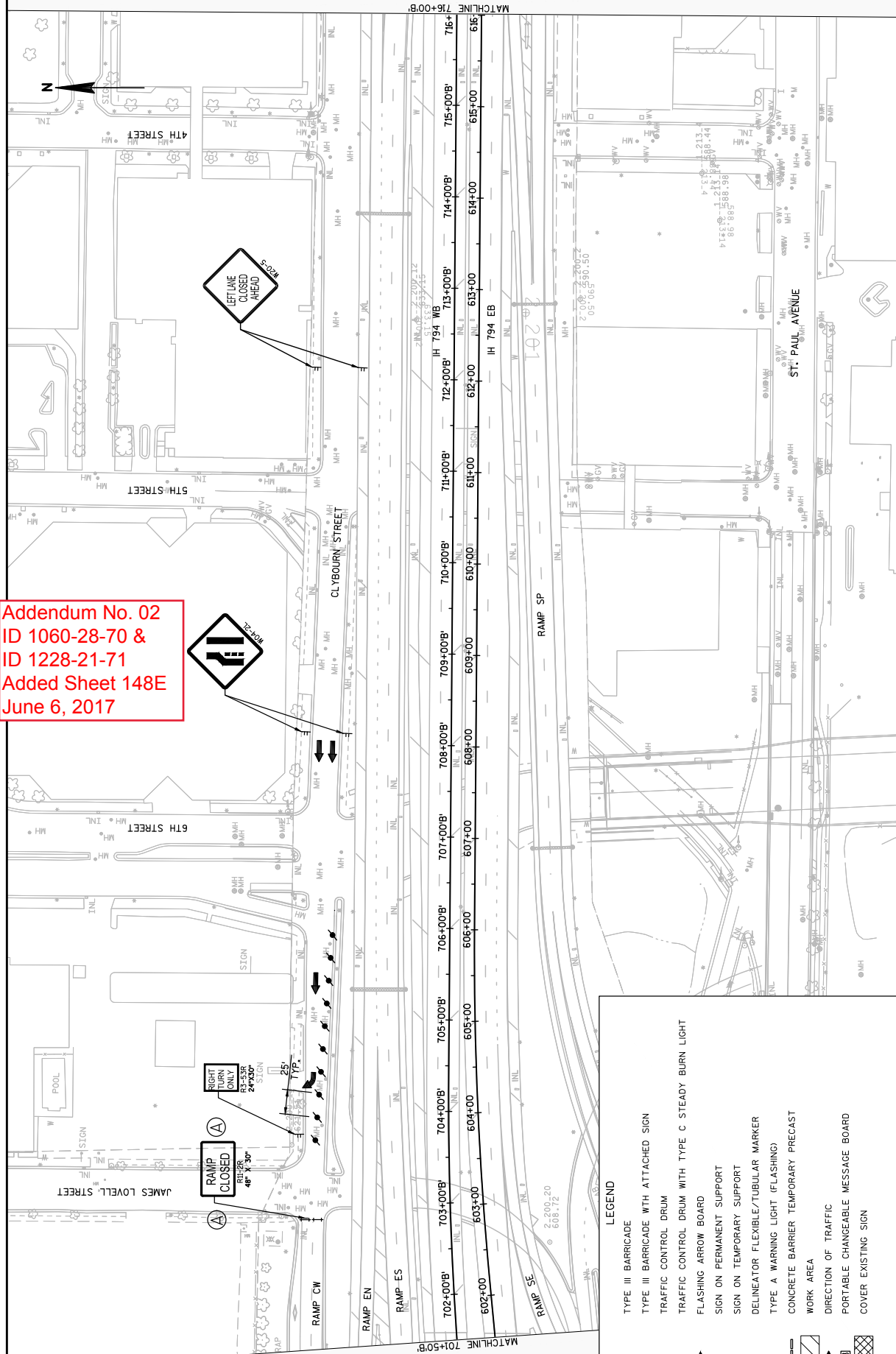
Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 148C
 June 6, 2017



LEGEND

- ↑ TYPE III BARRICADE
- ↑ TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- ▲ TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- ◆ FLASHING ARROW BOARD
- ▬ SIGN ON PERMANENT SUPPORT
- ▬ SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TYPE A WARNING LIGHT (FLASHING)
- ▬ CONCRETE BARRIER TEMPORARY PRECAST
- ▬ WORK AREA
- ▬ DIRECTION OF TRAFFIC
- ▬ PORTABLE CHANGEABLE MESSAGE BOARD
- ▬ COVER EXISTING SIGN

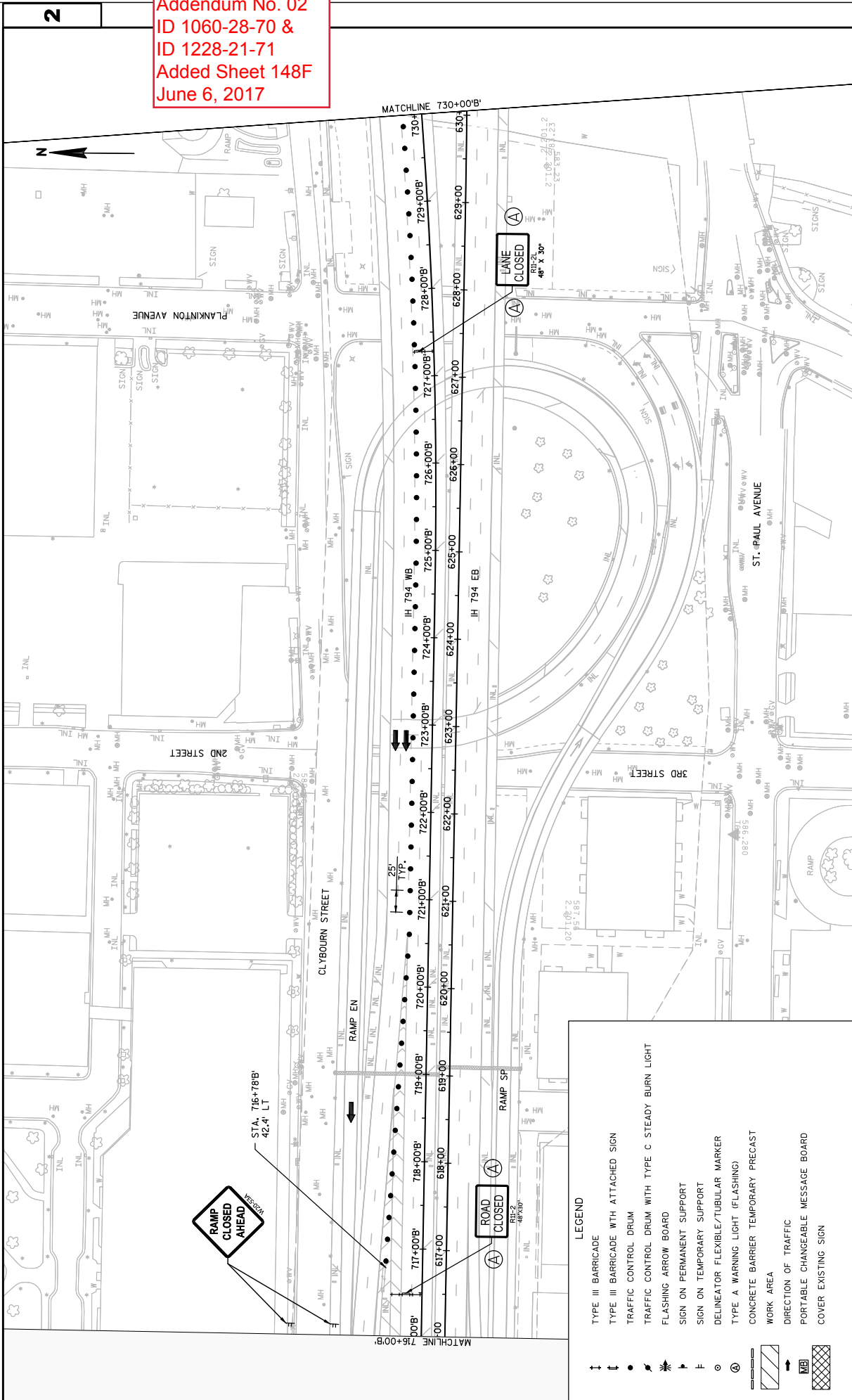
Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 148E
 June 6, 2017



LEGEND

- ↑ TYPE III BARRICADE
- ↑ TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- ☼ FLASHING ARROW BOARD
- ⬇ SIGN ON PERMANENT SUPPORT
- ⬆ SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- ⊙ TYPE A WARNING LIGHT (FLASHING)
- ▨ CONCRETE BARRIER TEMPORARY PRECAST
- ▩ WORK AREA
- ➔ DIRECTION OF TRAFFIC
- Ⓜ PORTABLE CHANGEABLE MESSAGE BOARD
- ▤ COVER EXISTING SIGN

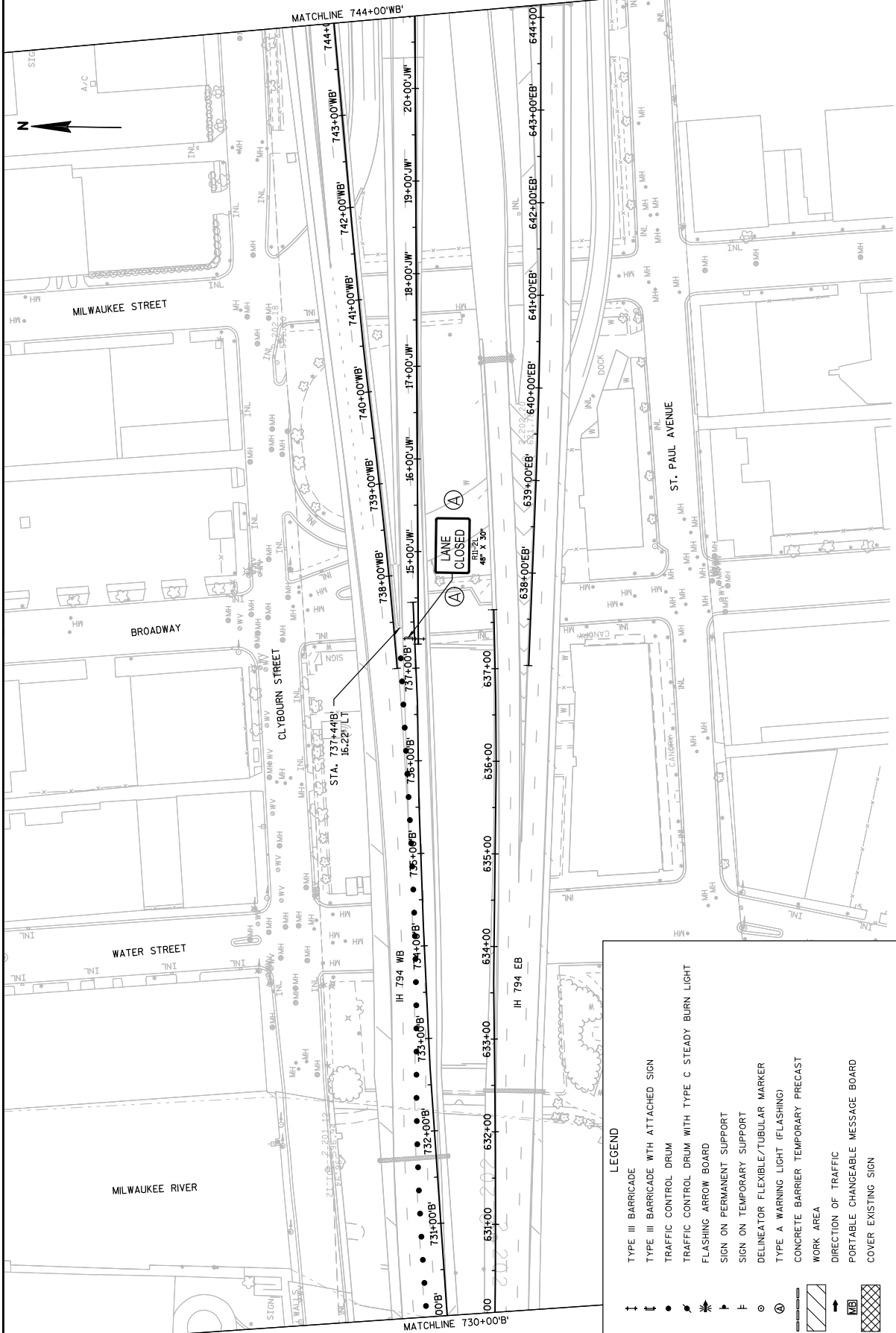
Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 148F
 June 6, 2017



LEGEND

- ↑ TYPE III BARRICADE
- ↑ TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- ⚡ TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- ⚡ FLASHING ARROW BOARD
- ⚡ SIGN ON PERMANENT SUPPORT
- ⚡ SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- ⊙ TYPE A WARNING LIGHT (FLASHING)
- ▭ CONCRETE BARRIER TEMPORARY PRECAST
- ▭ WORK AREA
- DIRECTION OF TRAFFIC
- ⊙ PORTABLE CHANGEABLE MESSAGE BOARD
- ▭ COVER EXISTING SIGN

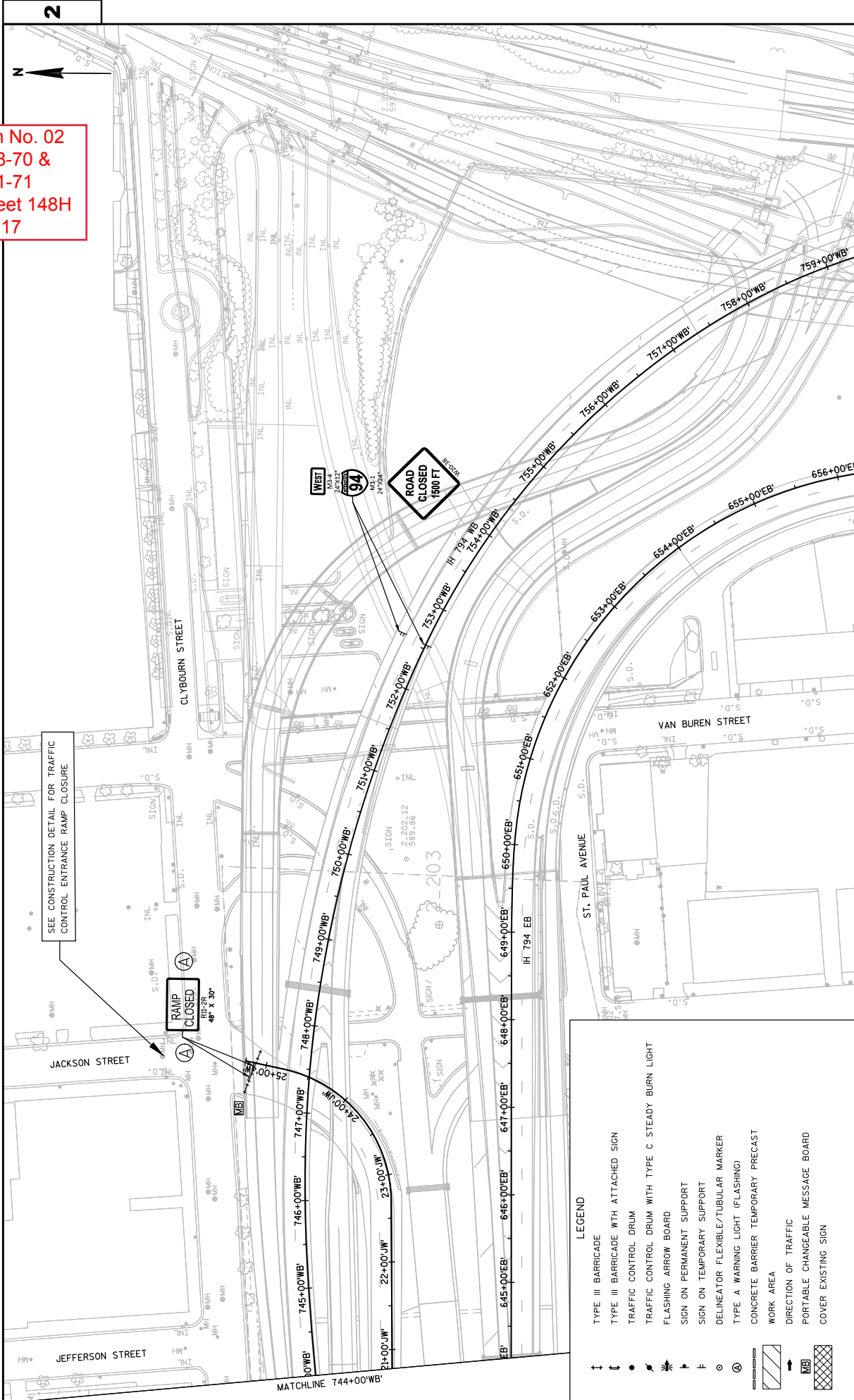
Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 148G
June 6, 2017



LEGEND

↑	TYPE III BARRICADE
↑	TYPE III BARRICADE WITH ATTACHED SIGN
●	TRAFFIC CONTROL DRUM
⊙	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
⚡	FLASHING ARROW BOARD
↑	SIGN ON PERMANENT SUPPORT
F	SIGN ON TEMPORARY SUPPORT
○	DELINEATOR FLEXIBLE/TUBULAR MARKER
⊙	TYPE A WARNING LIGHT (FLASHING)
▨	CONCRETE BARRIER TEMPORARY PRECAST
▨	WORK AREA
→	DIRECTION OF TRAFFIC
⊙	PORTABLE CHANGEABLE MESSAGE BOARD
⊙	COVER EXISTING SIGN

Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 148H
 June 6, 2017



LEGEND

↑	TYPE III BARRICADE
↑	TYPE III BARRICADE WITH ATTACHED SIGN
●	TRAFFIC CONTROL DRUM
⚡	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
⬆	FLASHING ARROW BOARD
⬆	SIGN ON PERMANENT SUPPORT
⬆	SIGN ON TEMPORARY SUPPORT
○	DELINEATOR FLEXIBLE/TUBULAR MARKER
⊙	TYPE A WARNING LIGHT (FLASHING)
▭	CONCRETE BARRIER TEMPORARY PRECAST
▭	WORK AREA
→	DIRECTION OF TRAFFIC
⊞	PORTABLE CHANGEABLE MESSAGE BOARD
⊞	COVER EXISTING SIGN

SEE CONSTRUCTION DETAIL FOR TRAFFIC CONTROL ENTRANCE RAMP CLOSURE

RAMP CLOSED
 48' X 30'

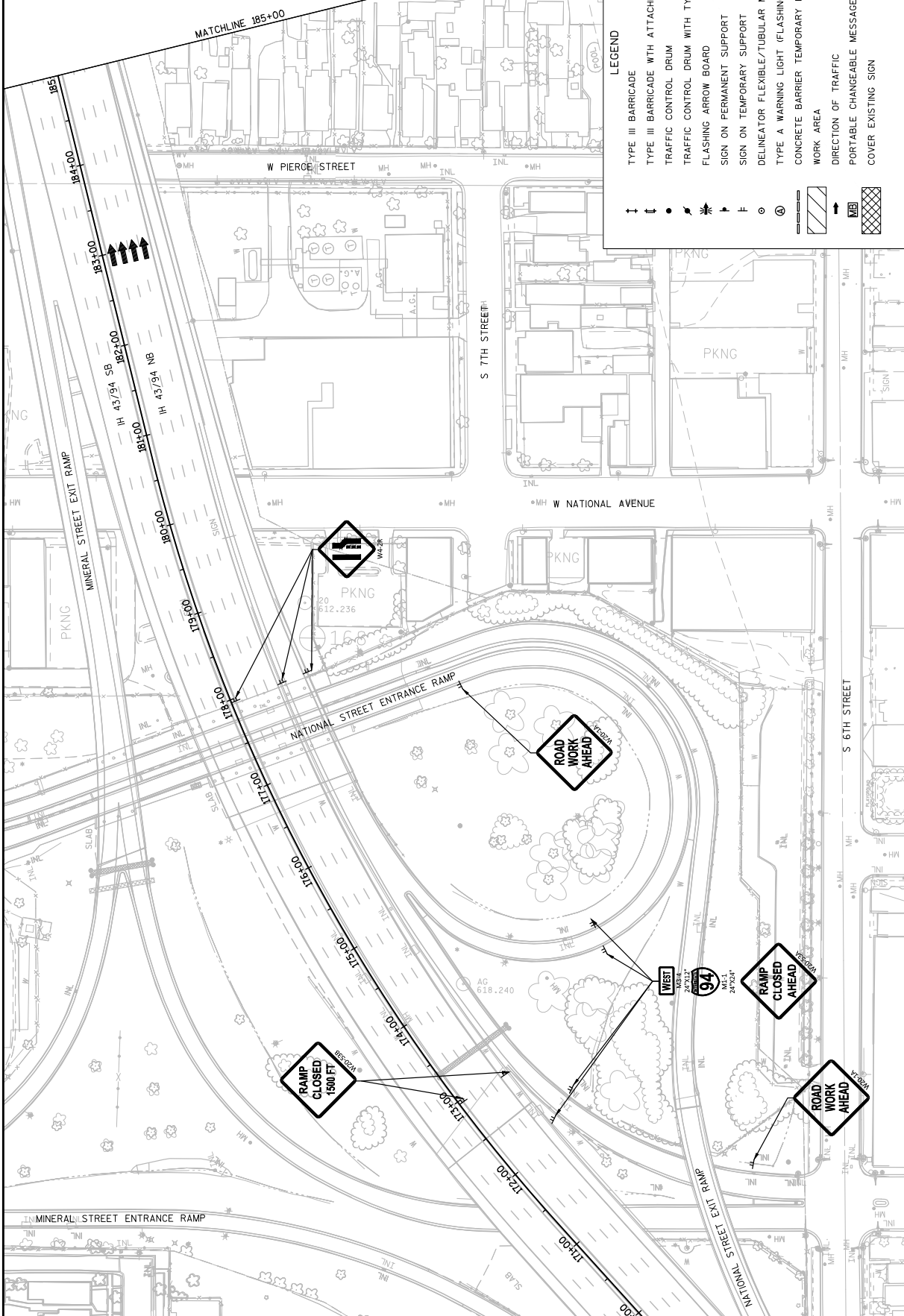
ROAD CLOSED
 1600 FT

2

2



Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 1481
June 6, 2017



LEGEND

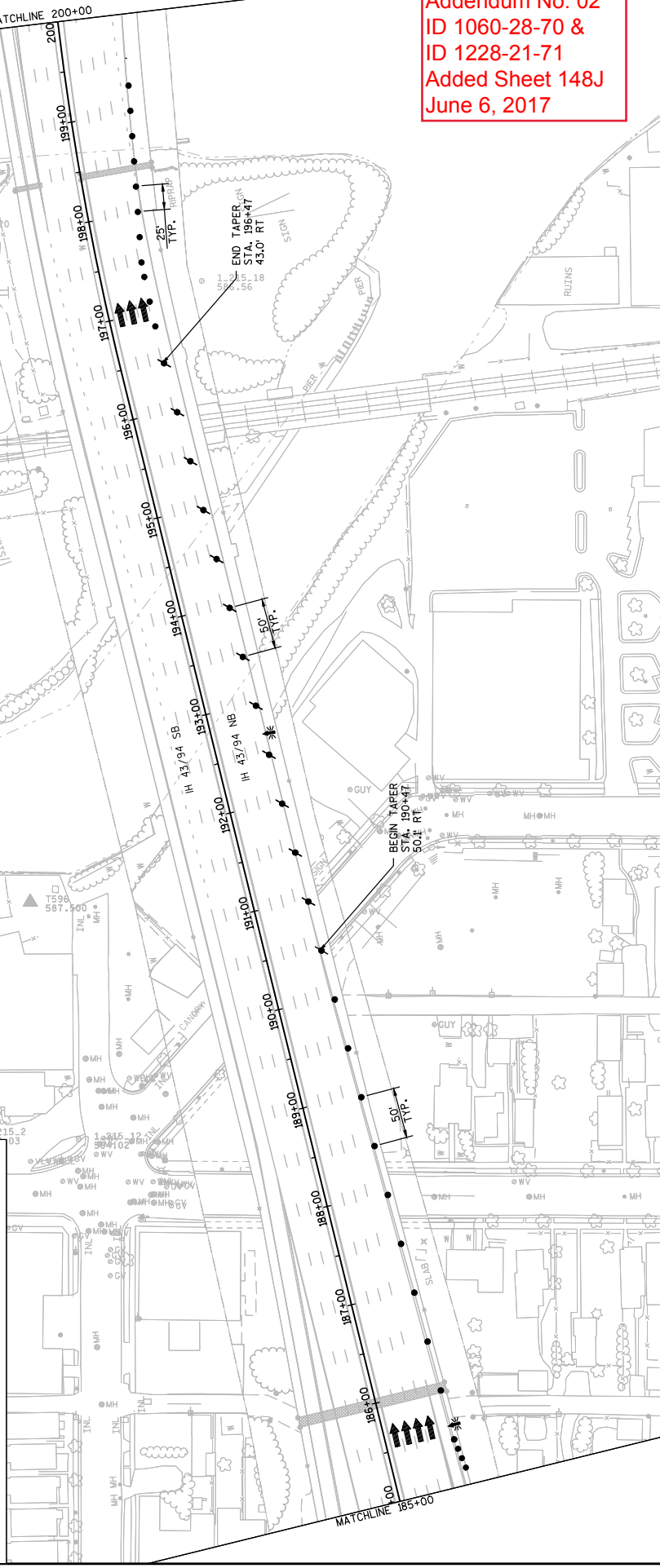
	TYPE III BARRICADE
	TYPE III BARRICADE WITH ATTACHED SIGN
	TRAFFIC CONTROL DRUM
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	DELINEATOR FLEXIBLE/TUBULAR MARKER
	TYPE A WARNING LIGHT (FLASHING)
	CONCRETE BARRIER TEMPORARY PRECAST
	WORK AREA
	DIRECTION OF TRAFFIC
	PORTABLE CHANGEABLE MESSAGE BOARD
	COVER EXISTING SIGN



Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 148J
June 6, 2017

LEGEND

	TYPE III BARRICADE
	TYPE III BARRICADE WITH ATTACHED SIGN
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	DELINICATOR FLEXIBLE/TUBULAR MARKER
	TYPE A WARNING LIGHT (FLASHING)
	CONCRETE BARRIER TEMPORARY PRECAST
	WORK AREA
	DIRECTION OF TRAFFIC
	PORTABLE CHANGEABLE MESSAGE BOARD
	COVER EXISTING SIGN

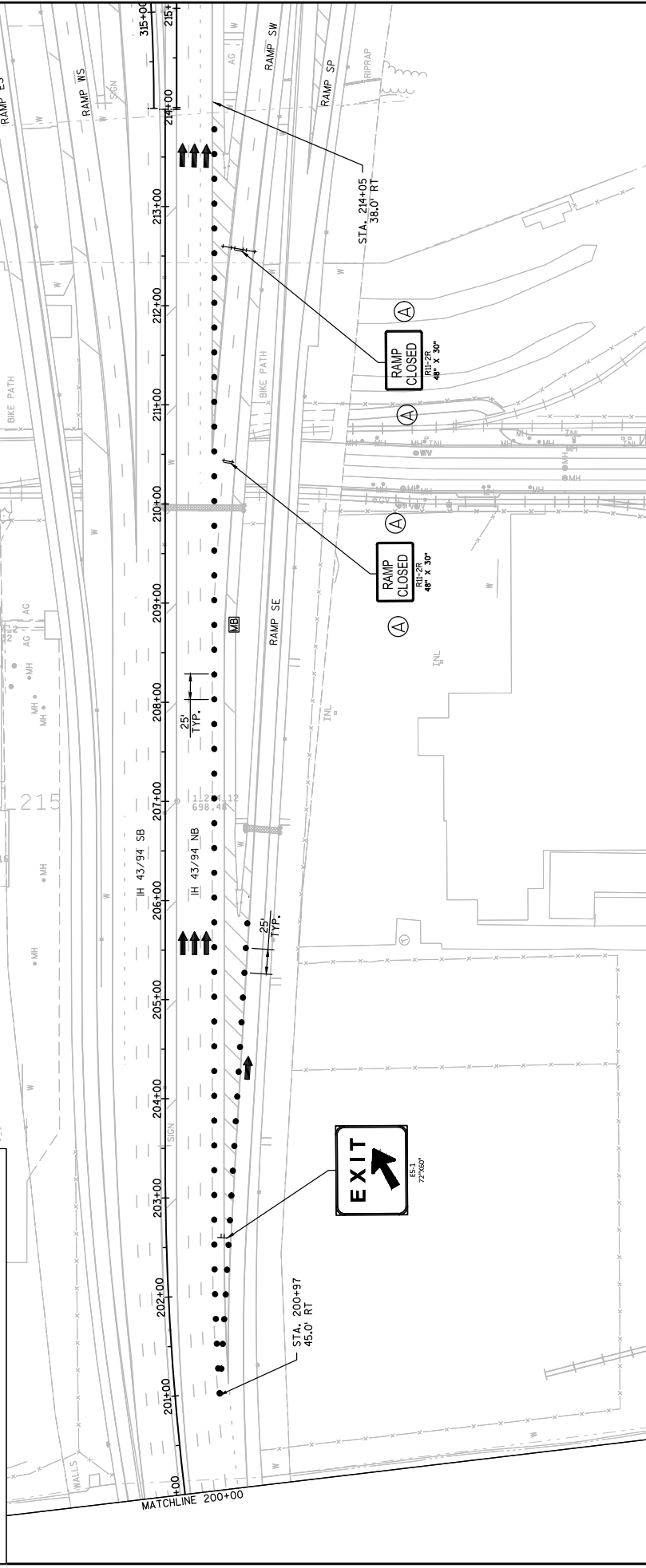




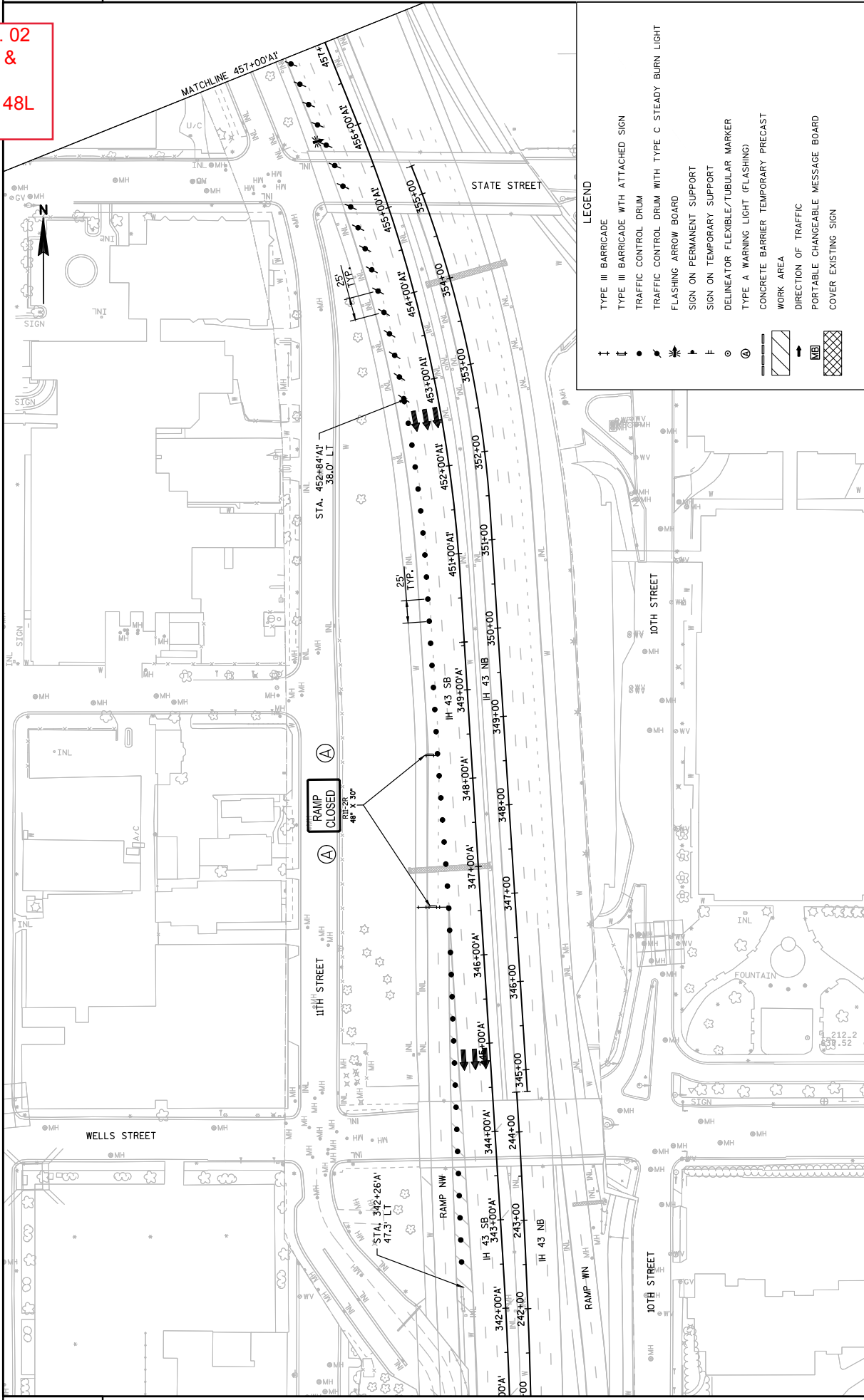
Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 148K
June 6, 2017

LEGEND

- ↑ TYPE III BARRICADE
- ↑ TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- ⚡ FLASHING ARROW BOARD
- ⚡ SIGN ON PERMANENT SUPPORT
- ⚡ SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TYPE A WARNING LIGHT (FLASHING)
- CONCRETE BARRIER TEMPORARY PRECAST
- ▨ WORK AREA
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD
- ▨ COVER EXISTING SIGN



Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 148L
 June 6, 2017



LEGEND

- ↑ TYPE III BARRICADE
- ↓ TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- ⊙ TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- ⬆ FLASHING ARROW BOARD
- ⬆ SIGN ON PERMANENT SUPPORT
- ⬆ SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- ⊙ TYPE A WARNING LIGHT (FLASHING)
- ▬ CONCRETE BARRIER TEMPORARY PRECAST
- ▭ WORK AREA
- ▭ DIRECTION OF TRAFFIC
- ▭ PORTABLE CHANGEABLE MESSAGE BOARD
- ▭ COVER EXISTING SIGN

2

PROJECT NO: 1060-28-70/1228-21-71
 COUNTY: MILWAUKEE
 HWY: IH 43/794/94
 TRAFFIC CONTROL PLAN - STAGE 3 IH 94 WB FULL CLOSURE
 SHEET 148L
 E

WISDOT/CADD SHEET 42

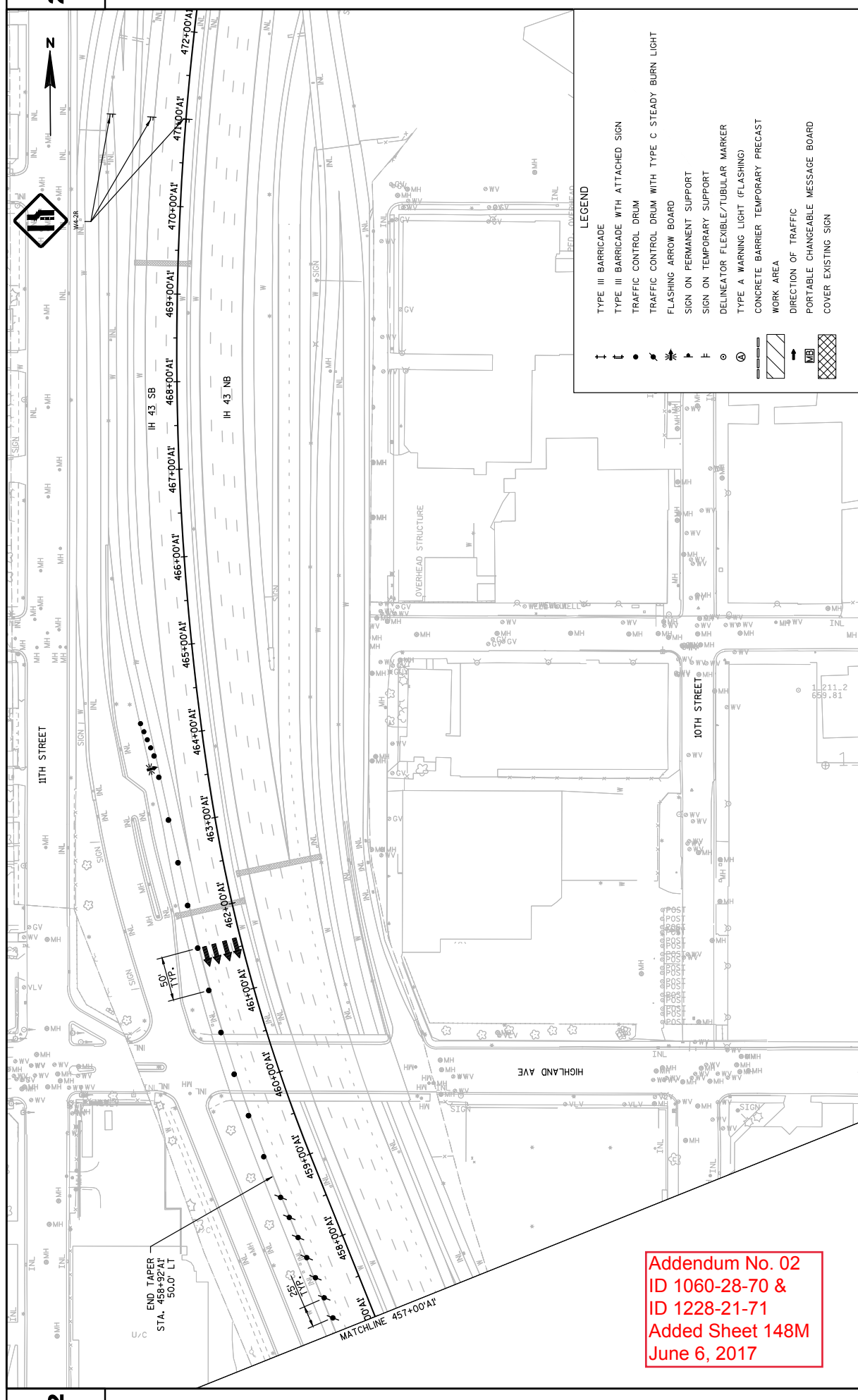
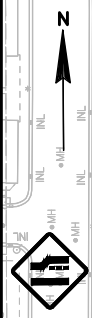
PLOT SCALE: 1 IN=100 FT

PLOT NAME: KALFMAN, LINDSAY

PLOT DATE: 5/31/2017 8:07 PM

FILE NAME: C:\P\W\1-LOCAL\BAKER_PROJECTS\KALFMAN\00341235\025\01.A.TC.DWG

LAYOUT NAME: 025101L.TC

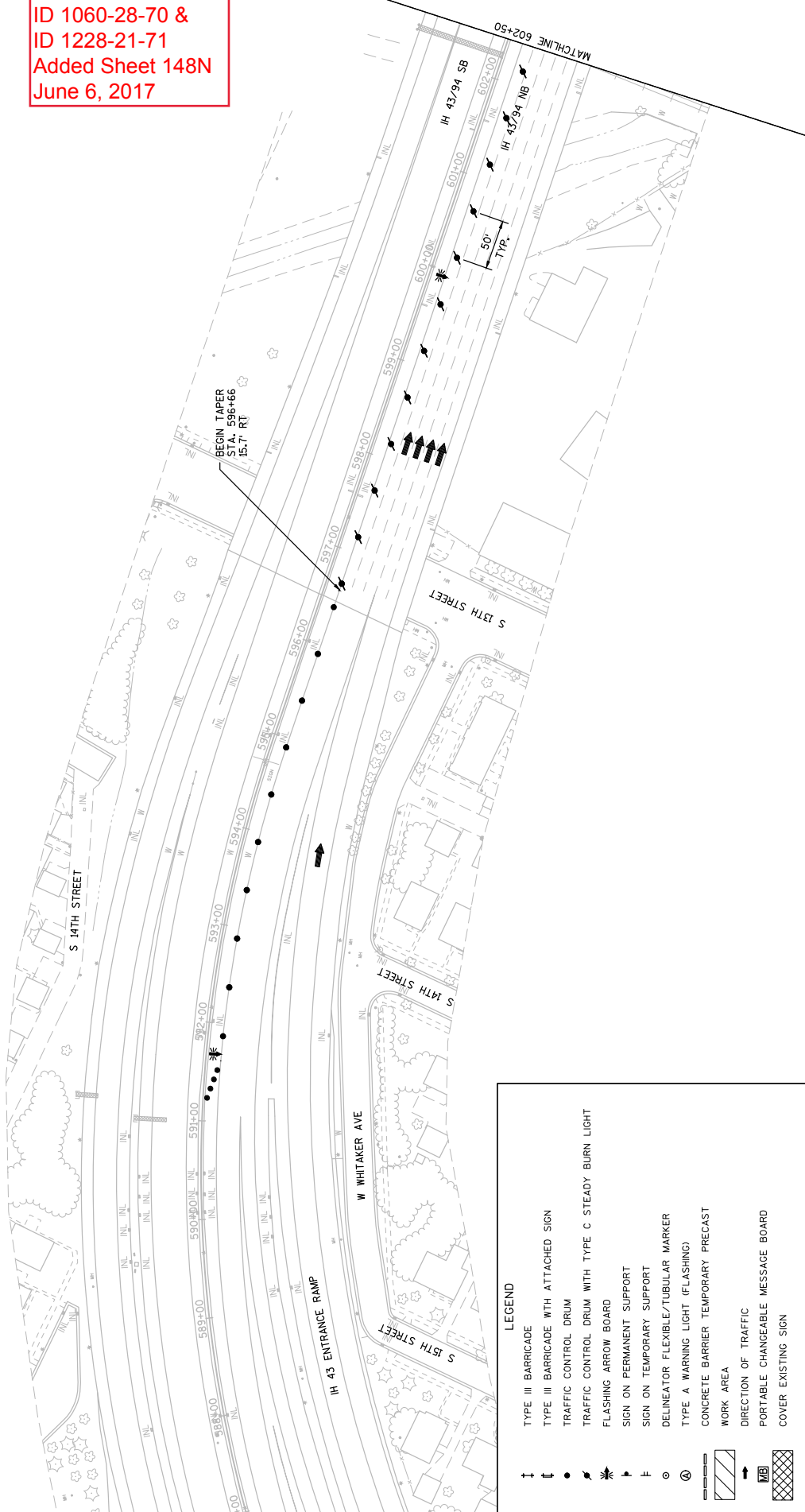
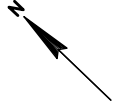


LEGEND

- ↑ TYPE III BARRICADE
- ↓ TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- ⊙ TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- ⚡ FLASHING ARROW BOARD
- ⬆ SIGN ON PERMANENT SUPPORT
- ⬆ SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- ⊙ TYPE A WARNING LIGHT (FLASHING)
- ▭ CONCRETE BARRIER TEMPORARY PRECAST
- ▭ WORK AREA
- ➡ DIRECTION OF TRAFFIC
- ▭ PORTABLE CHANGEABLE MESSAGE BOARD
- ▭ COVER EXISTING SIGN

Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 148M
 June 6, 2017

Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 148N
June 6, 2017

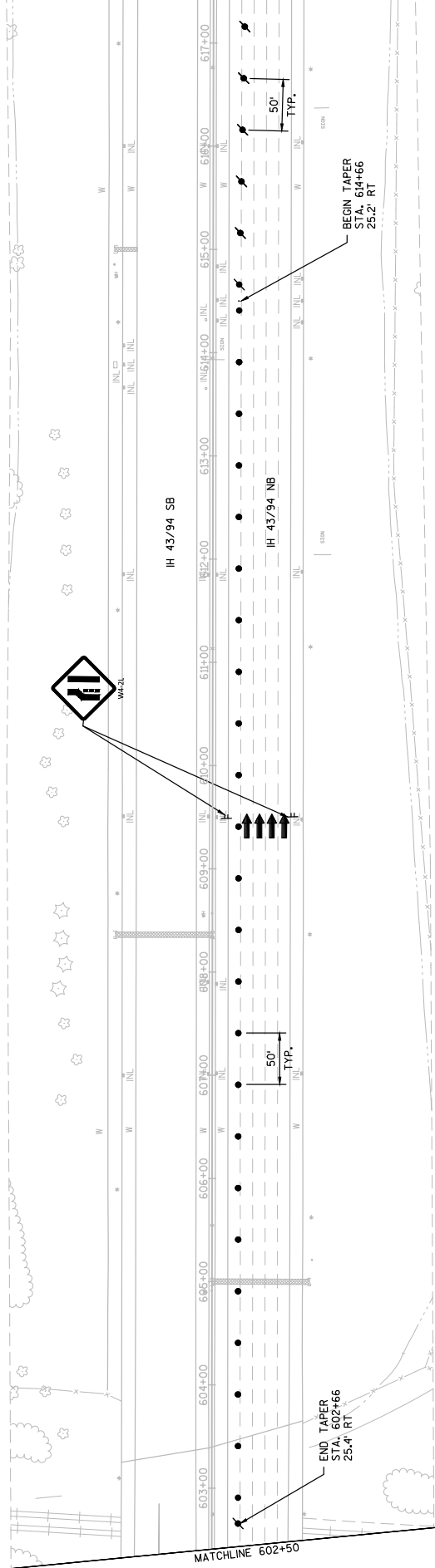


LEGEND

↑	TYPE III BARRICADE
↓	TYPE III BARRICADE WITH ATTACHED SIGN
●	TRAFFIC CONTROL DRUM
☼	FLASHING ARROW BOARD
⊣	SIGN ON PERMANENT SUPPORT
⊢	SIGN ON TEMPORARY SUPPORT
○	DELINEATOR FLEXIBLE/TUBULAR MARKER
⊙	TYPE A WARNING LIGHT (FLASHING)
▨	CONCRETE BARRIER TEMPORARY PRECAST
▩	WORK AREA
→	DIRECTION OF TRAFFIC
⊞	PORTABLE CHANGEABLE MESSAGE BOARD
⊞	COVER EXISTING SIGN



MATCHLINE 617+50



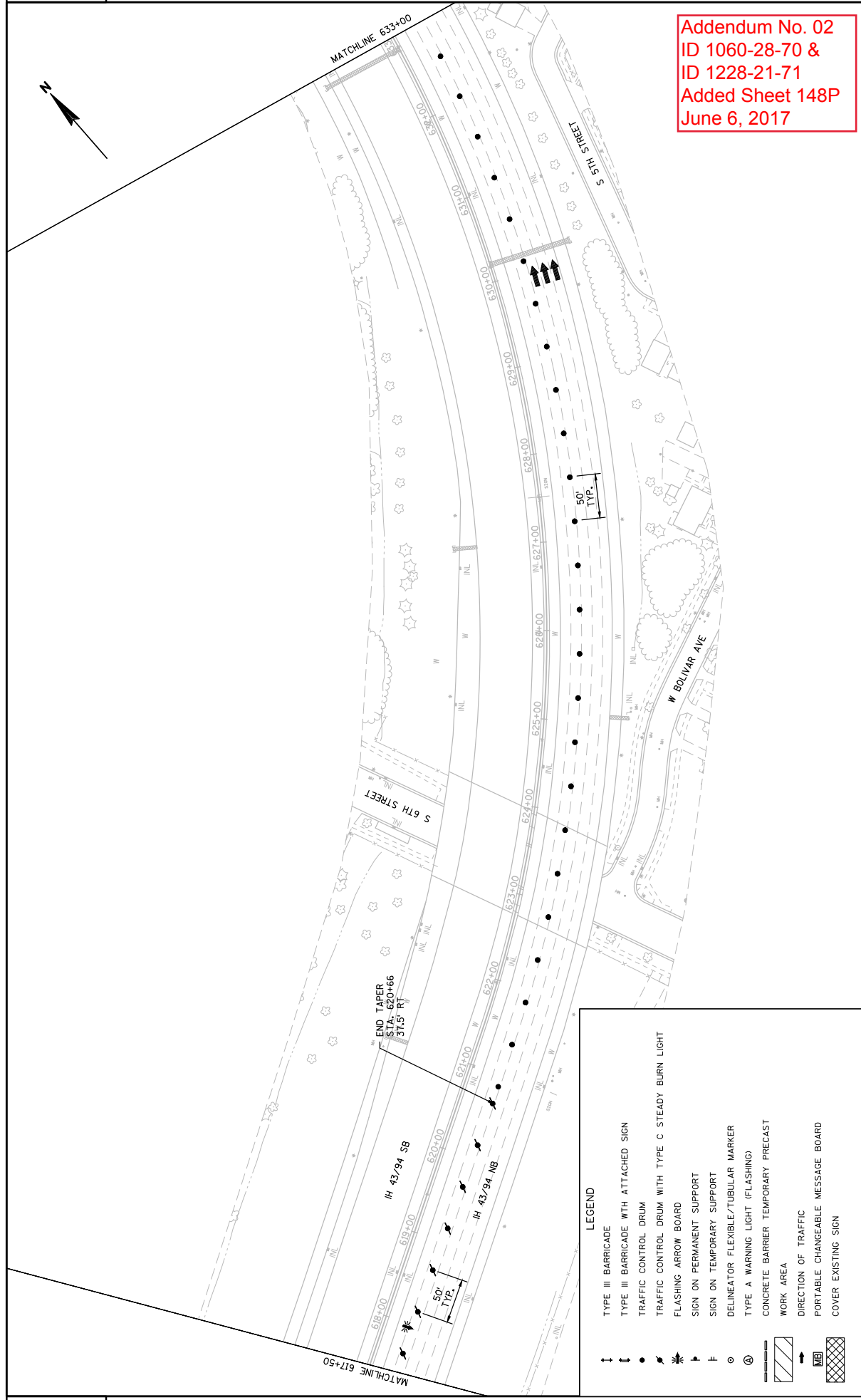
Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 1480
 June 6, 2017

LEGEND

- ↑ TYPE III BARRICADE
- ↑ TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- ⚡ FLASHING ARROW BOARD
- ↑ SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- ⊙ DELINEATOR FLEXIBLE/TUBULAR MARKER
- ⊙ TYPE A WARNING LIGHT (FLASHING)
- ▭ CONCRETE BARRIER TEMPORARY PRECAST
- ▭ WORK AREA
- DIRECTION OF TRAFFIC
- ⊞ PORTABLE CHANGEABLE MESSAGE BOARD
- ⊞ COVER EXISTING SIGN

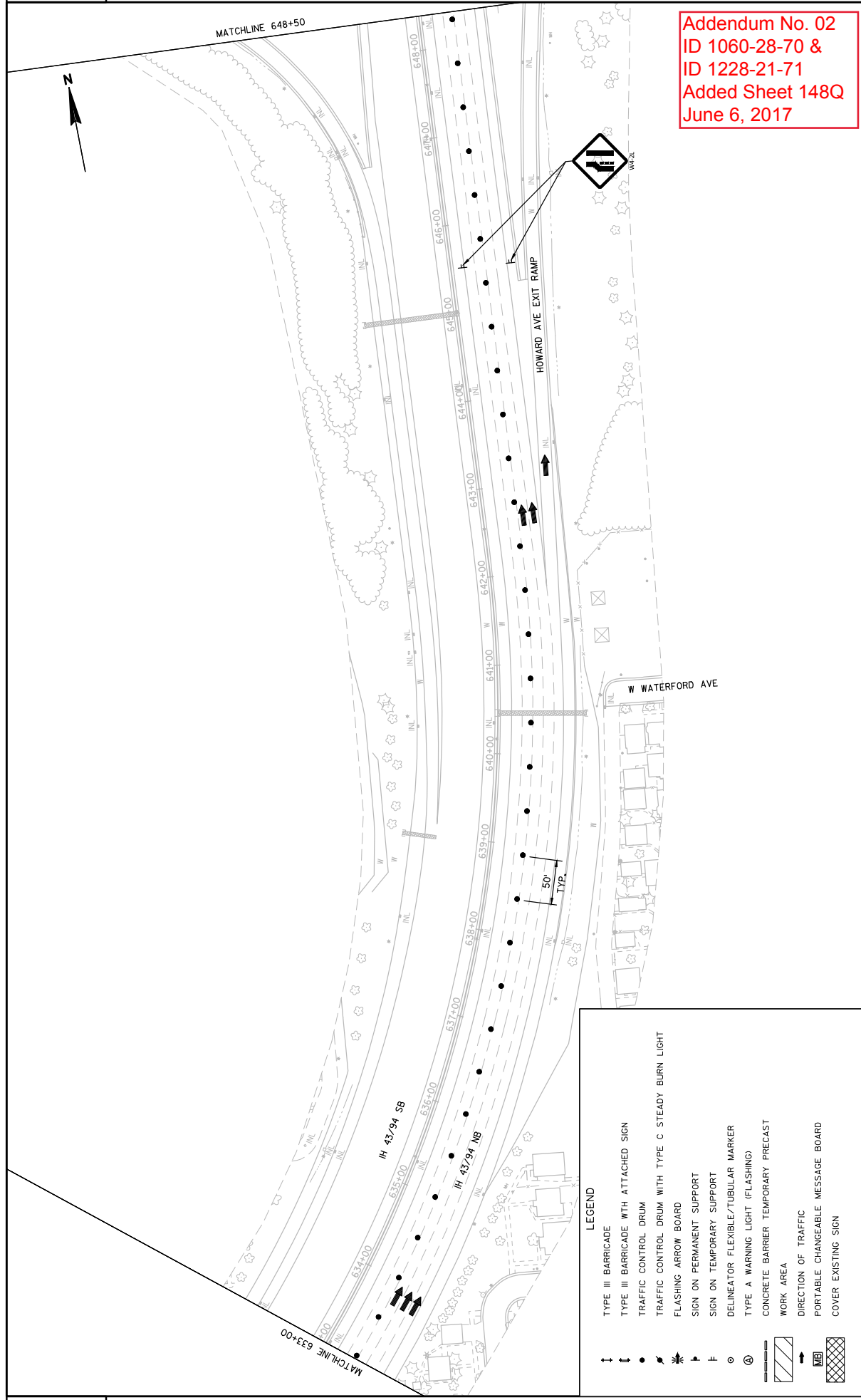


Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 148P
 June 6, 2017



LEGEND

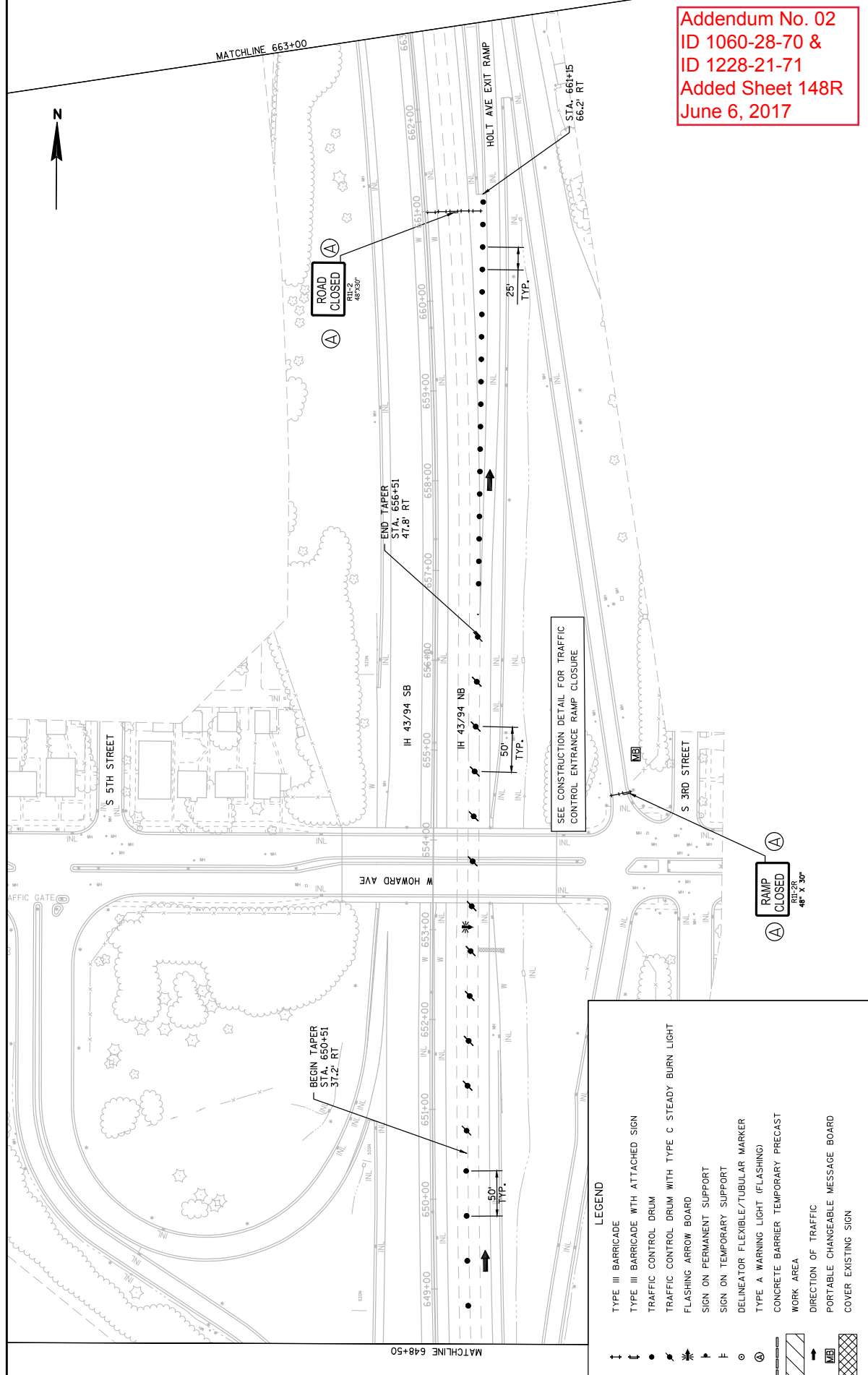
↑	TYPE III BARRICADE
↑	TYPE III BARRICADE WITH ATTACHED SIGN
●	TRAFFIC CONTROL DRUM
⚡	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
⚡	FLASHING ARROW BOARD
↑	SIGN ON PERMANENT SUPPORT
↑	SIGN ON TEMPORARY SUPPORT
○	DELINEATOR FLEXIBLE/TUBULAR MARKER
⊙	TYPE A WARNING LIGHT (FLASHING)
▭	CONCRETE BARRIER TEMPORARY PRECAST
▭	WORK AREA
→	DIRECTION OF TRAFFIC
⊞	PORTABLE CHANGEABLE MESSAGE BOARD
⊞	COVER EXISTING SIGN



Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 148Q
 June 6, 2017

LEGEND

↑	TYPE III BARRICADE
↑	TYPE III BARRICADE WITH ATTACHED SIGN
●	TRAFFIC CONTROL DRUM
⚡	FLASHING ARROW BOARD
⬆	SIGN ON PERMANENT SUPPORT
⬆	SIGN ON TEMPORARY SUPPORT
○	DELINEATOR FLEXIBLE/TUBULAR MARKER
⊙	TYPE A WARNING LIGHT (FLASHING)
▭	CONCRETE BARRIER TEMPORARY PRECAST
▭	WORK AREA
→	DIRECTION OF TRAFFIC
⊞	PORTABLE CHANGEABLE MESSAGE BOARD
⊞	COVER EXISTING SIGN



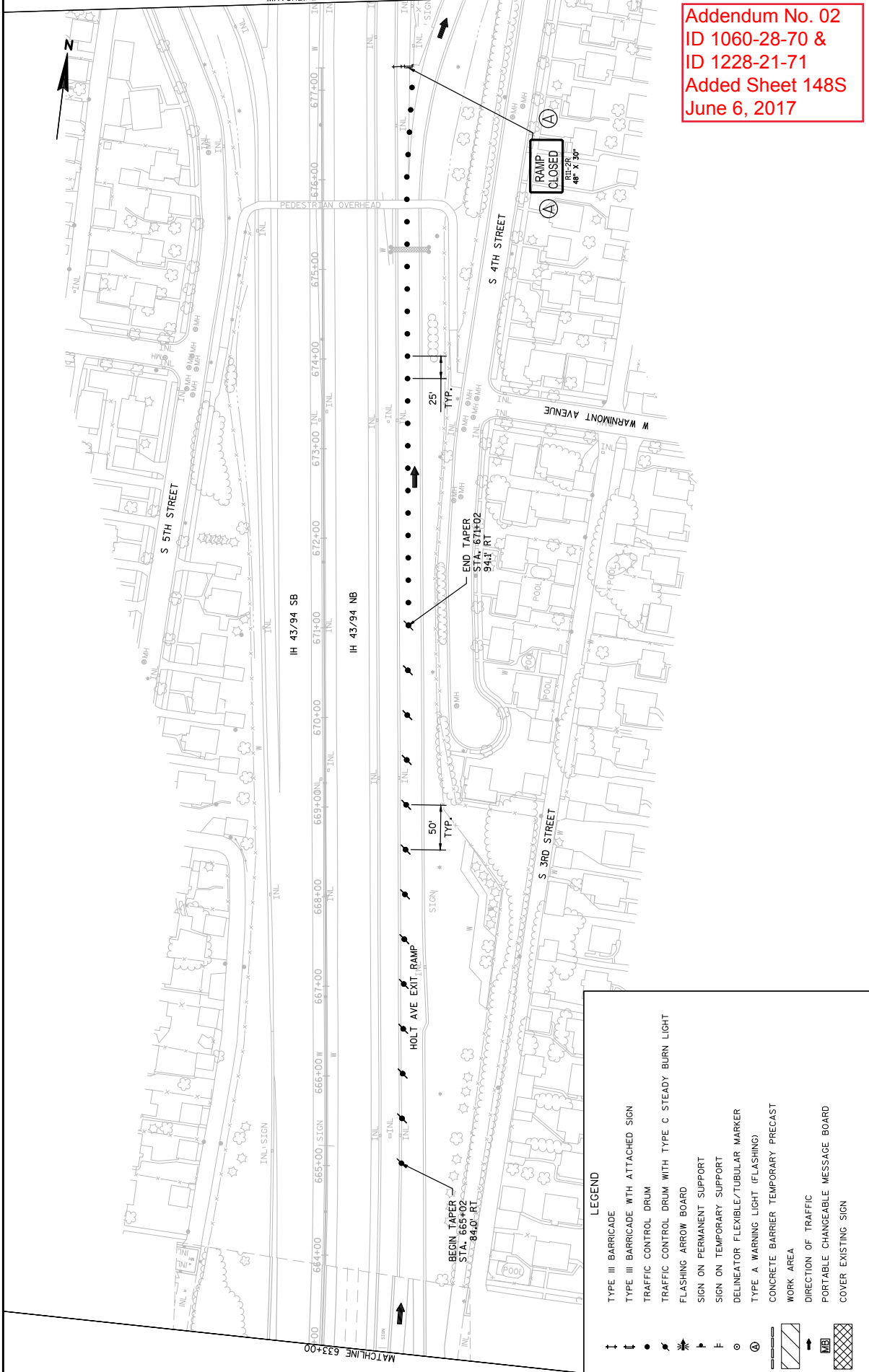
Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 148R
 June 6, 2017

LEGEND

↑	TYPE III BARRICADE
↑	TYPE III BARRICADE WITH ATTACHED SIGN
●	TRAFFIC CONTROL DRUM
⚡	FLASHING ARROW BOARD
↑	SIGN ON PERMANENT SUPPORT
○	SIGN ON TEMPORARY SUPPORT
○	DELINEATOR FLEXIBLE/TUBULAR MARKER
○	TYPE A WARNING LIGHT (FLASHING)
▭	CONCRETE BARRIER TEMPORARY PRECAST
▭	WORK AREA
→	DIRECTION OF TRAFFIC
⬇	PORTABLE CHANGEABLE MESSAGE BOARD
⊞	COVER EXISTING SIGN

MATCHLINE 678+00

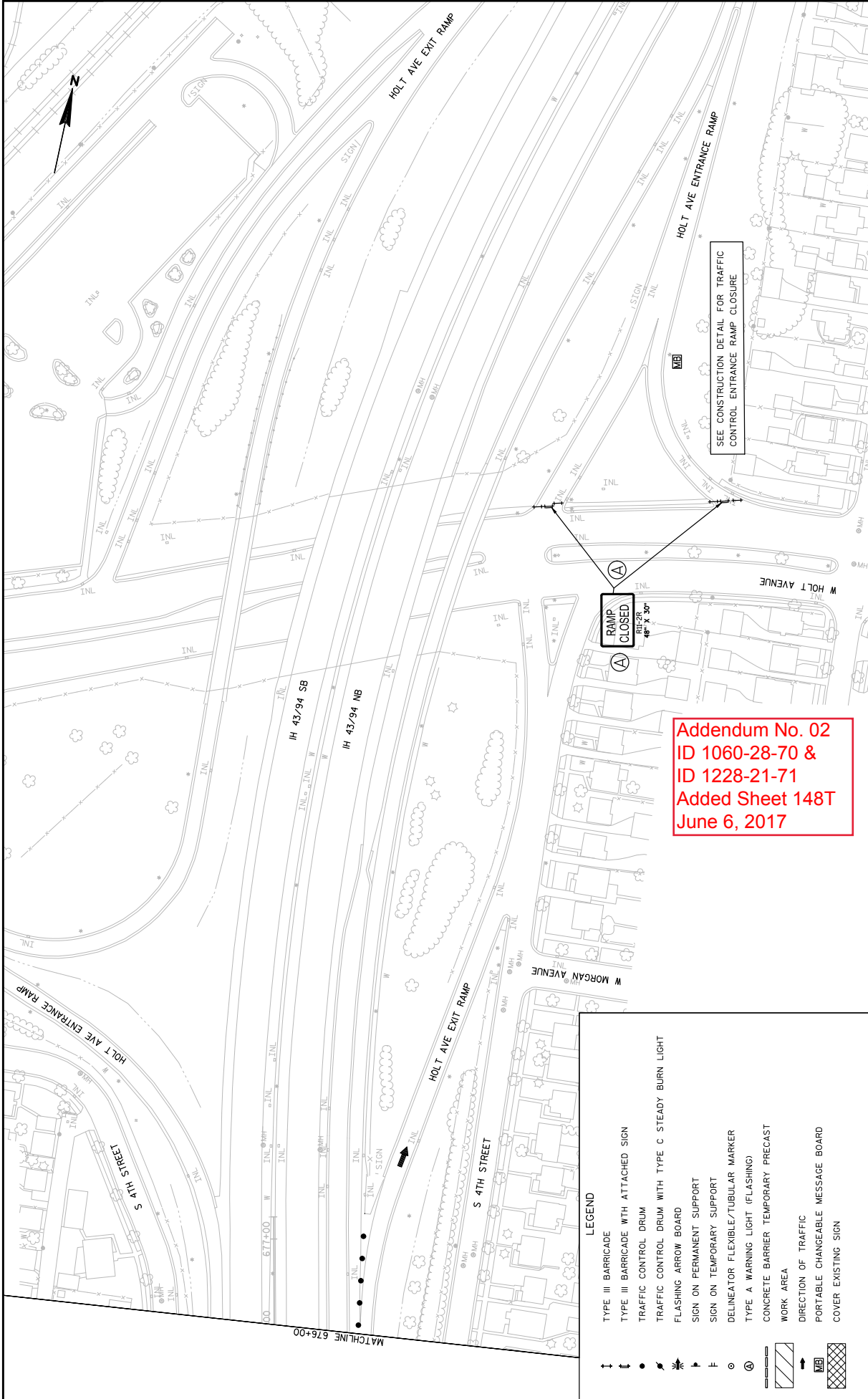
MATCHLINE 633+00



Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 148S
 June 6, 2017

LEGEND

↑	TYPE III BARRICADE
↑	TYPE III BARRICADE WITH ATTACHED SIGN
●	TRAFFIC CONTROL DRUM
⚡	FLASHING ARROW BOARD
↑	SIGN ON PERMANENT SUPPORT
○	SIGN ON TEMPORARY SUPPORT
⊙	DELINEATOR FLEXIBLE/TUBULAR MARKER
⊙	TYPE A WARNING LIGHT (FLASHING)
▬	CONCRETE BARRIER TEMPORARY PRECAST
▬	WORK AREA
→	DIRECTION OF TRAFFIC
Ⓜ	PORTABLE CHANGEABLE MESSAGE BOARD
▨	COVER EXISTING SIGN



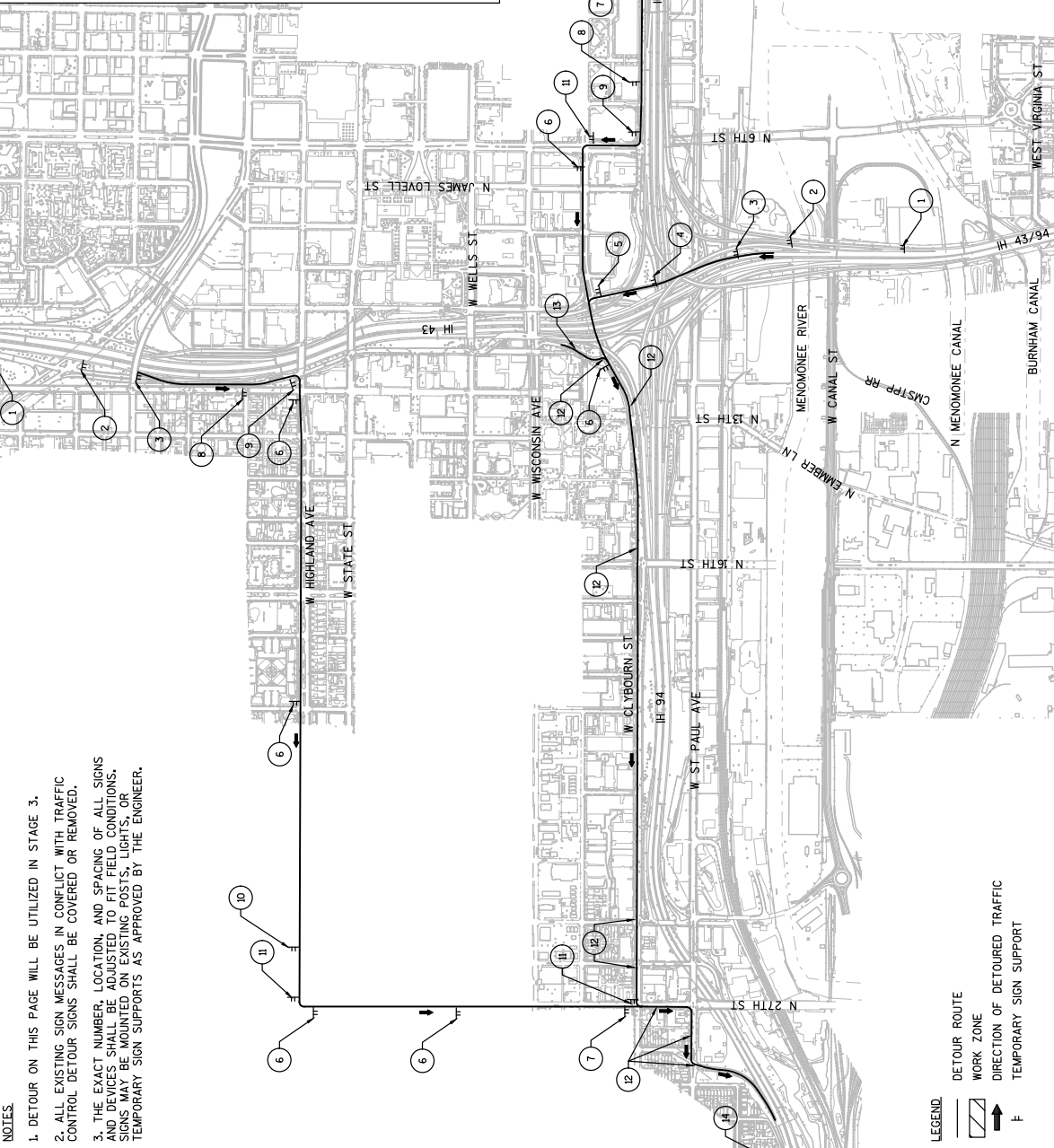
Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 148T
June 6, 2017

LEGEND

↑	TYPE III BARRICADE
↑	TYPE III BARRICADE WITH ATTACHED SIGN
●	TRAFFIC CONTROL DRUM
⚡	FLASHING ARROW BOARD
⚡	FLASHING CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
⚡	SIGN ON PERMANENT SUPPORT
⚡	SIGN ON TEMPORARY SUPPORT
○	DELINATOR FLEXIBLE/TUBULAR MARKER
⊙	TYPE A WARNING LIGHT (FLASHING)
▨	CONCRETE BARRIER TEMPORARY PRECAST
▨	WORK AREA
→	DIRECTION OF TRAFFIC
⊞	PORTABLE CHANGEABLE MESSAGE BOARD
⊞	COVER EXISTING SIGN



1		WEST	35°X36°	36°X35°		2-C-02M
2		DETOUR	35°X36°	36°X35°		30°X50°
3		DETOUR	35°X36°	36°X35°		30°X50°
4		DETOUR	35°X36°	36°X35°		30°X50°
5		DETOUR	35°X36°	36°X35°		30°X50°
6		DETOUR	35°X36°	36°X35°		30°X50°
7		DETOUR	35°X36°	36°X35°		30°X50°
8		DETOUR	35°X36°	36°X35°		30°X50°
9		DETOUR	35°X36°	36°X35°		30°X50°
10		DETOUR	35°X36°	36°X35°		30°X50°
11		DETOUR	35°X36°	36°X35°		30°X50°
12		DETOUR	35°X36°	36°X35°		30°X50°
13		DETOUR	35°X36°	36°X35°		30°X50°
14		DETOUR	35°X36°	36°X35°		30°X50°



Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 164A
 June 6, 2017

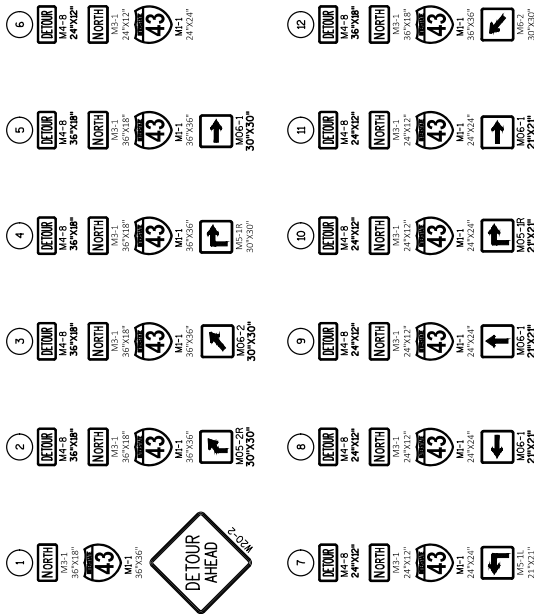
- NOTES:**
1. DETOUR ON THIS PAGE WILL BE UTILIZED IN STAGE 3.
 2. ALL EXISTING SIGN MESSAGES IN CONFLICT WITH TRAFFIC CONTROL DETOUR SIGNS SHALL BE COVERED OR REMOVED.
 3. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS WILL BE DETERMINED BY THE ENGINEER. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE M.I.T.S. MANUAL. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE M.I.T.S. MANUAL. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE M.I.T.S. MANUAL.

LEGEND:

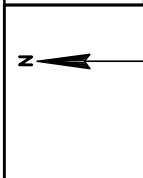
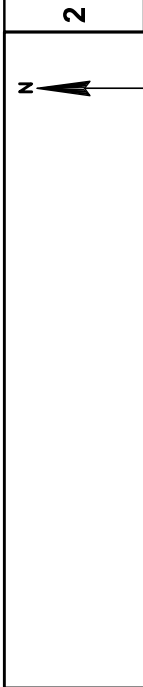
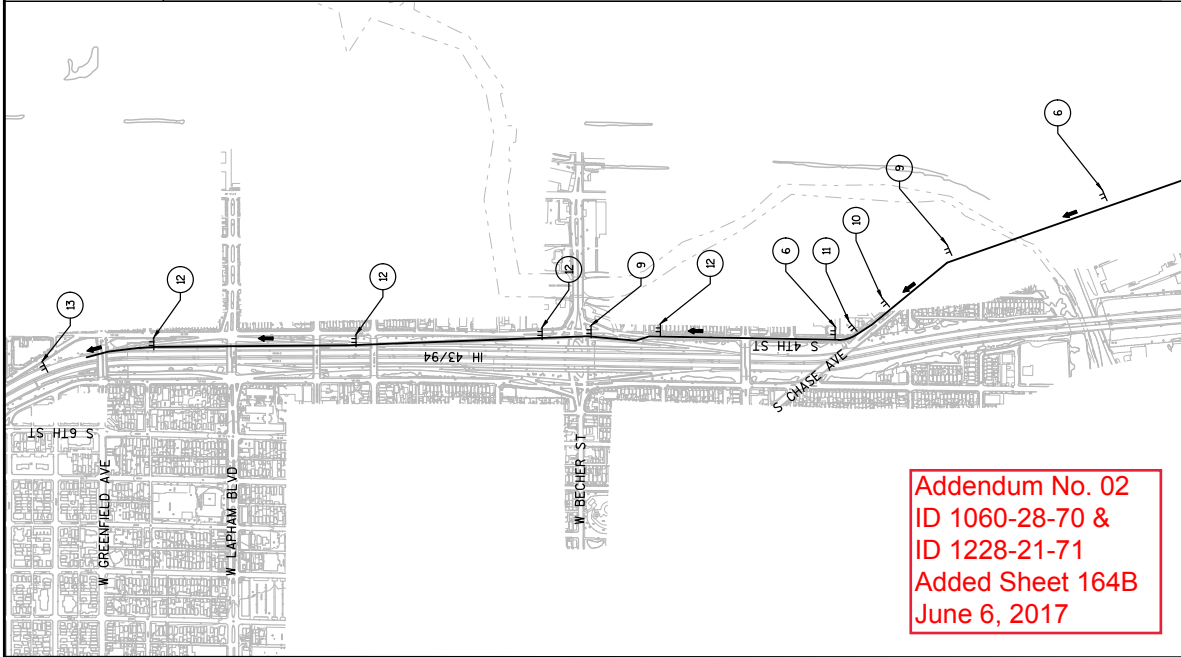
- DETOUR ROUTE
- WORK ZONE
- DIRECTION OF DETOURED TRAFFIC
- TEMPORARY SIGN SUPPORT

NOTES:

1. DETOUR ON THIS PAGE WILL BE UTILIZED IN STAGE 3.
2. ALL EXISTING SIGN MESSAGES IN CONFLICT WITH TRAFFIC CONTROL DETOUR SIGNS SHALL BE COVERED OR REMOVED.
3. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND MESSAGES TO BE INSTALLED FOR THIS DETOUR PLAN MAY VARY FROM THE EXISTING POSTS, LIGHTS, OR TEMPORARY SIGN SUPPORTS AS APPROVED BY THE ENGINEER.



Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 164B
 June 6, 2017



PROJECT ID	CATEGORY	STAGE	LOCATION	643.0930	643.0420	643.0705	643.0715	643.0800	643.0900	643.0910*	643.0920*	643.1000	643.1050	643.3000	
				TRAFFIC CONTROL DRUMS DAY	TRAFFIC CONTROL BARRICADES TYPE III DAY	TRAFFIC CONTROL LIGHTS TYPE A DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	TRAFFIC CONTROL ARROW BOARDS DAY	TRAFFIC CONTROL SIGNS DAY	TRAFFIC CONTROL COVERING SIGNS TYPE I EACH	TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	TRAFFIC CONTROL SIGNS PCMS DAY	TRAFFIC CONTROL DETOUR SIGNS DAY	
1060-28-70	1000	SETUP	IH 43 NB	2,206	34	34	410	51	289				49		
			IH 94 EB	1,058	72	60	324	23	196				17		
			IH 94 WB	4,816	945	866	1,422	123	2,323				18		762
			MICHIGAN	334	75	100	60		247				59		3,481
			RAMP CW	35	1			1	10						88
			RAMP EN	517	21	24	73	18	491				7		14
			RAMP ES	1,285	102	136	666	15	1,480				7		28
			RAMP NE	3,275	172	258		129	1,204				7		7
			RAMP NW	22	1			1	21				28		28
			RAMP TW	892	36	32	171	14	240				23		23
RAMP WN	59	6	8			20						44	456		
RAMP WP	35	26	52			52						2	173		
RAMP WS	381	52	52			52							44		
WISCONSIN	14,915	1,543	1,622	3,126	375	6,625						228		1,716	
11TH														8,749	
STAGE 1 Total															
STAGE 2A															
IH 43 NB	3,069	236	236			295									
IH 94 WB	134	30	28	66	4	74									
RAMP SP	142	1	5		1	39									
STAGE 2A Total															
STAGE 2A-1															
IH 43 SB	3,345	267	264	71	5	408									
RAMP ES	980	192	192	94	96	640									
RAMP WS	1,317	96	138	770	32	1,440								64	
RAMP WS	1,931	160	192	385	32	1,216								64	
WISCONSIN	171	60	138			224									
11TH	933	128	128			64									
STAGE 2A-1 Total															
STAGE 2A-2															
IH 43 SB	4,734	640	788	1,249	128	3,584									
RAMP ES	1,397	282	282	138		940									
RAMP WS	1,953	188	188	1,130	94	2,115									
RAMP WS	1,954	235	282	565	47	1,833								94	
WISCONSIN	251	94	188			329								94	
11TH	1,873	188	188			54									
STAGE 2A-2 Total															
STAGE 2B															
IH 43 NB	3,047	236	236	1,633	141	5,311									
IH 43 SB	1,403	270	270	133		295									
RAMP WS	1,871	225	270	541		1,170								2	
WISCONSIN	240	90	180			1,755								90	
11TH	1,314	180	180			180									
STAGE 2B Total															
STAGE 3															
IH 43 NB	7,675	1,601	1,584	674	8	3,580									
RAMP ES	1,704	146	132	99	8	284								12	
RAMP WS	2,262	82	628	628	82	779								288	
IH 94 WB	623	82	68	95	8	220								252	
RAMP WS	1,704	205	246	1,599	8	1,599								82	
WISCONSIN	6,293	515	528	1,315	98	2,882								8,364	
11TH	44,070	4,953	5,446	8,268	747	22,390								26,453	
STAGE 3 Total															
1060-28-70 Total															

Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Revised Sheet 185
 June 6, 2017

*QUANTITIES ARE SHOWN FOR 1 CYCLE

PROJECT ID	CATEGORY	STAGE	LOCATION	643.0890		643.0705		643.0715		643.0880		643.0900		643.0910*		643.0920*		643.1000		643.1050		643.3000	
				TRAFFIC CONTROL DRUMS DAY	TRAFFIC CONTROL BARRICADES TYPE III DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	TRAFFIC CONTROL ARROW BOARDS DAY	TRAFFIC CONTROL SIGNS DAY	TRAFFIC CONTROL COVERING SIGNS TYPE I EACH	TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	TRAFFIC CONTROL SIGNS FCMS DAY	TRAFFIC CONTROL DEFOUR SIGNS DAY	TRAFFIC CONTROL SIGNS FCMS DAY	TRAFFIC CONTROL DEFOUR SIGNS DAY							
1228-21-71	1000	SETUP	IH 43 NB																				
		SETUP Total																					
		STAGE 2A	IH 43 NB	6,428	1,062	1,652	1,193	59	1,770	308													
			MICHIGAN																				2,065
			NATIONAL																				9,440
			RAMP SE																				10,325
			6TH																				
		STAGE 2A Total		6,428	1,062	1,652	1,193	59	1,770	308													21,830
		STAGE 2A-1	IH 43 SB	990			923	32	1,600														6,528
			RAMP WS																				4,224
			WISCONSIN																				10,752
		STAGE 2A-1 Total		990			923	32	1,600														10,752
		STAGE 2A-2	IH 43 SB	624			95		235														12,925
			RAMP ES																				9,588
			RAMP WS																				6,204
			WISCONSIN																				28,717
		STAGE 2A-2 Total		624			95		235														28,717
		STAGE 2B	IH 43 NB	5,885	1,121	1,652	1,446	59	1,711	219													2,065
			IH 43 SB	4,946			1,864	168	1,624														9,440
			NATIONAL						164														5,546
			RAMP SW																				9,180
			RAMP WS																				5,940
			WISCONSIN																				
		STAGE 2B Total		5,885	1,121	1,652	1,446	59	1,711	219													35,171
		STAGE 3	IH 43 NB	4,946	1,120	1,568	1,864	168	1,624	98													8,950
			IH 43 SB																				8,950
			NATIONAL																				102,430
		STAGE 3 Total		4,946	1,120	1,568	1,864	168	1,788	98													8,950
		1228-21-71 Total		18,373	3,303	4,972	5,621	318	6,906	1,410													102,430
		PROJECT TOTAL		62,443	8,256	10,318	13,889	1,065	29,296	2,111													128,883

*QUANTITIES ARE SHOWN FOR 1 CYCLE

Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Revised Sheet 186
 June 6, 2017

PROJECT ID	CATEGORY	LOCATION	618.0100.001	618.0100.002	643.0200.S.001	643.0200.S.002	643.1055.S	643.2000.001	643.2000.002	SPV.0045.001	SPV.0060.003	SPV.0060.004
1060-28-70	1000	UNDISTRIBUTED	1	1	430	185	30	1	1	10	0.5	7
1228-21-71	1000	UNDISTRIBUTED	1	1	430	185	10	1	1	10	0.5	7
PROJECT TOTAL			1	1	430	185	40	1	1	20	1	14

Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Revised Sheet 187
 June 6, 2017

PROJECT ID	CATEGORY	LOCATION	SPV.0060.005	SPV.0060.030	SPV.0060.031	SPV.0060.032
1060-28-70	1000	UNDISTRIBUTED	16	84	302	266
1228-21-71	1000	UNDISTRIBUTED	2	10	9	4
PROJECT TOTAL			18	94	311	270

FTMS COMMUNICATIONS AND CABINETS

204.9060.S.002	204.9060.S.003	657.0255 TRANSFORMER BASES	657.0322 11 1/2-INCH NCH BOLT CIRCLE	657.0225.S INSTALL POLE MOUNTED CABINET	675.0400.S INSTALL ETHERNET SWITCH	675.0200 INSTALL DETECTOR ASSEMBLY	DIRECT POWER CONTROLLER	12-VOLT DETECTOR BATTERY	24-VOLT POWER SUPPLY	INSTALL ETHERNET BRIDGE
ROADWAY	ROADWAY	REMOVING DETECTOR	REMOVING POLE	REMOVING POLE	INSTALL ETHERNET SWITCH	INSTALL DETECTOR ASSEMBLY	DIRECT POWER CONTROLLER	12-VOLT DETECTOR BATTERY	24-VOLT POWER SUPPLY	INSTALL ETHERNET BRIDGE
ITEM ID	ITEM ID	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
EX-MDS-25SE	EX-MDS-25SE	2	-	-	-	-	-	-	-	-
EX-CB-HL-XA	EX-CB-HL-XA	-	-	-	-	-	-	-	-	-
EX-MDS-20ES	EX-MDS-20ES	2	-	-	-	-	-	-	-	-
MDS-20ES	MDS-20ES	-	1	1	1	3	1	1	-	1
EX-CB-HL-XY	EX-CB-HL-XY	-	-	-	-	-	-	-	-	-
EX-MDS-219	EX-MDS-219	1	-	-	-	-	-	-	-	-
MDS-219	MDS-219	-	1	1	1	1	1	1	-	1
EX-MDS-24TS	EX-MDS-24TS	2	-	-	-	-	-	-	-	-
MDS-24TS	MDS-24TS	-	1	1	1	2	-	-	-	-
EX-MDS-94CW	EX-MDS-94CW	2	-	-	-	-	-	-	-	-
MDS-94CW	MDS-94CW	-	1	1	1	2	-	-	-	-
EX-MDS-53SE	EX-MDS-53SE	2	-	-	-	-	-	-	-	-
MDS-53SE	MDS-53SE	-	1	1	1	2	1	1	-	1
EX-MDS-29EN	EX-MDS-29EN	1	-	-	-	-	-	-	-	-
MDS-29EN	MDS-29EN	-	1	1	1	1	-	-	-	-
EX-MDS-586	EX-MDS-586	1	-	-	-	-	-	-	-	-
MDS-586	MDS-586	-	1	1	1	1	1	1	-	1
EX-CCTV-40-0098	EX-CCTV-40-0098	-	-	-	-	-	-	-	-	-
TOTALS	TOTALS	13	8	7	7	5	12	5	2	6

FTMS LUMP SUM ITEMS

670.0100 FIELD SYSTEM INTEGRATOR	670.0200 ITS DOCUMENTATION
LS	LS
ROADWAY	ROADWAY
IH 43 / IH 94 / IH 794	IH 43 / IH 94 / IH 794
PROJECT	PROJECT
1	1
TOTALS	TOTALS
1	1

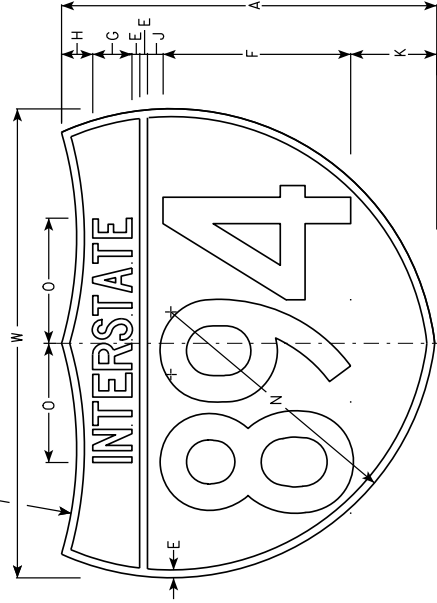
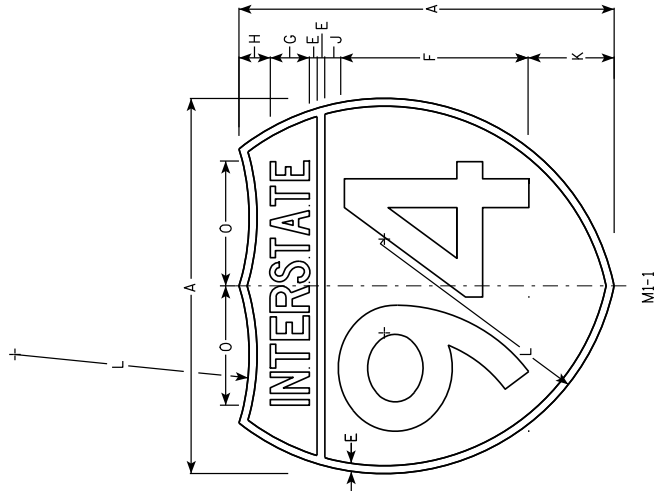
DYNAMIC MESSAGE SIGN REPLACEMENT

655.0635 ELECTRICAL WIRE LIGHTING	674.0300 REMOVE CABLE	678.0100.S INSTALL OVERHEAD FREEMWAY DMS FULL MATRX	204.9060.S.004 REMOVING OVERHEAD FREEMWAY DMS	204.9060.S.005 REMOVING CONTROLLER CABINET	204.9060.S.006 REMOVING CONTROLLER CABINET BASE
LF	LF	EACH	EACH	EACH	EACH
EX-DMS-40-0006	EX-DMS-40-0006	-	-	-	-
DMS-40-0006	DMS-40-0006	-	1	-	-
EXPB01 - EXPB01	EXPB01 - EXPB01	35	-	-	-
EXPB01 - EXPB02	EXPB01 - EXPB02	140	-	-	-
EXPB02 - EX-CB-CCTV-40-0014	EXPB02 - EX-CB-CCTV-40-0014	35	-	-	-
EXPB01 - EX-CB-DMS-40-0018	EXPB01 - EX-CB-DMS-40-0018	20	-	-	-
EX-DMS-40-0018	EX-DMS-40-0018	30	-	-	-
DMS-40-0018	DMS-40-0018	-	1	-	-
EX-CB-DMS-40-0018	EX-CB-DMS-40-0018	-	-	-	-
TOTALS	TOTALS	360	2	2	1

Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Revised Sheet 205
June 6, 2017

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Top Red - Bottom Blue (See Note 6)
Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & adjust spacing as per plate A10-1.
5. M1-1- Numerals - D
Interstate - C
6. Permanent Signs
Message - Type H Reflective
Detour or other temporary signs
Background - Reflective
Message - Reflective



Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1																									
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 1/8								30		
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45		
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45		
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45		

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

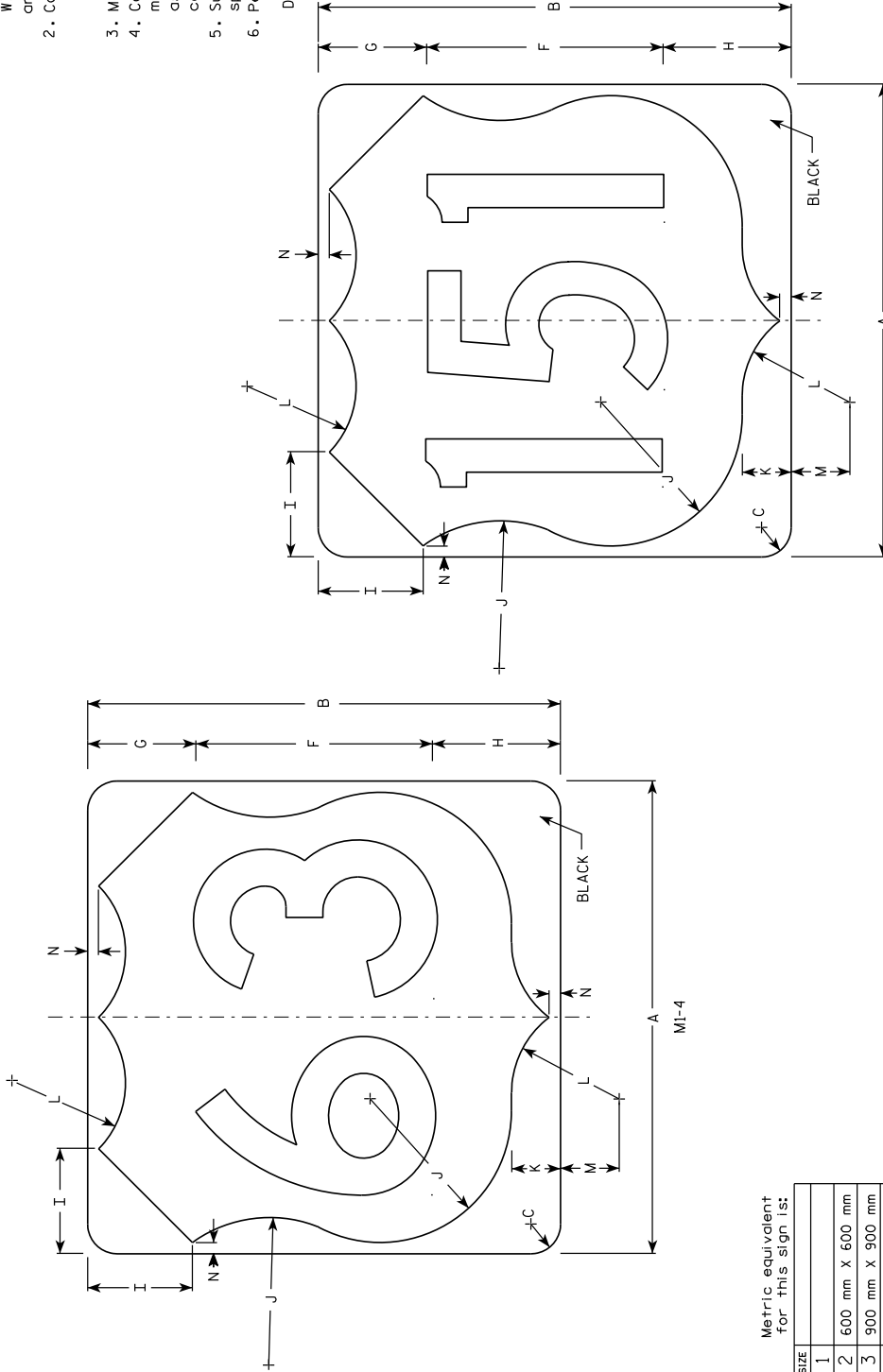
DATE 08/23/05 PLATE NO. M1-1B

Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 254A
June 6, 2017

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition, 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

Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 254B
June 6, 2017



Metric equivalent for this sign is:

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 sq. m.
1																												
2	24	24	1 1/2		12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2														4.0	.36
3	36	36	2 1/4		18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4														9.0	.81
4	36	36	2 1/4		18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4														9.0	.81
5	36	36	2 1/4		18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4														9.0	.81

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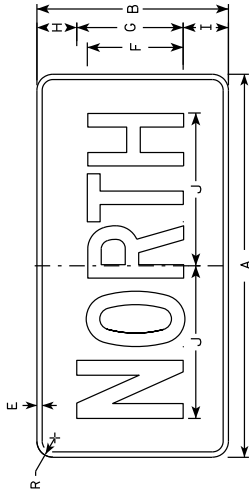
MI-4

MI-4

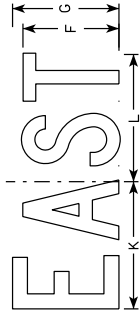
MI-4

NOTES

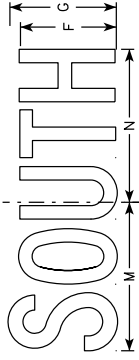
- All Signs Type II - Type H
- Color:
 - Background - See note 5
 - Message - See note 5
- Message Series - C
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M3-1 thru M3-4 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
- Note the first letter of each direction is larger than the remainder of the message.



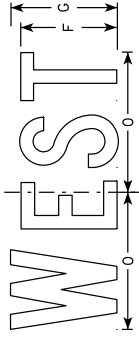
M3-1
MK3-1
MN3-1



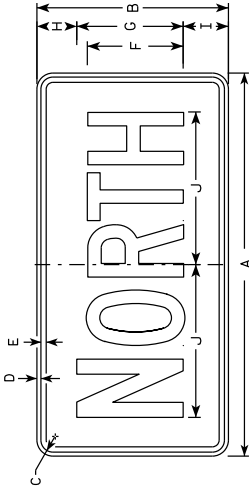
MB3-2
MK3-2
MN3-2



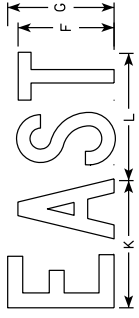
MB3-3
MK3-3
MN3-3



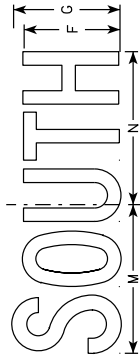
MB3-4
MK3-4
MN3-4



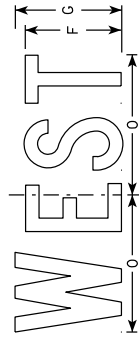
M3-1
MM3-1
MP3-1



M3-2
MM3-2
MP3-2



M3-3
MM3-3
MP3-3



M3-4
MM3-4
MP3-4

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																											2.00
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									4.5
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

PROJECT NO: _____ COUNTY: _____ HWY: _____ SHEET NO: 254C E

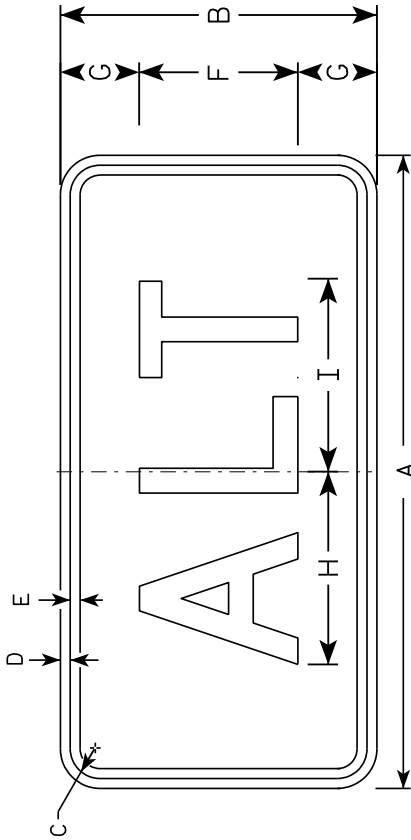
Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 254C
 June 6, 2017

STANDARD SIGNS
 M3-1 thru M3-4
 SERIES

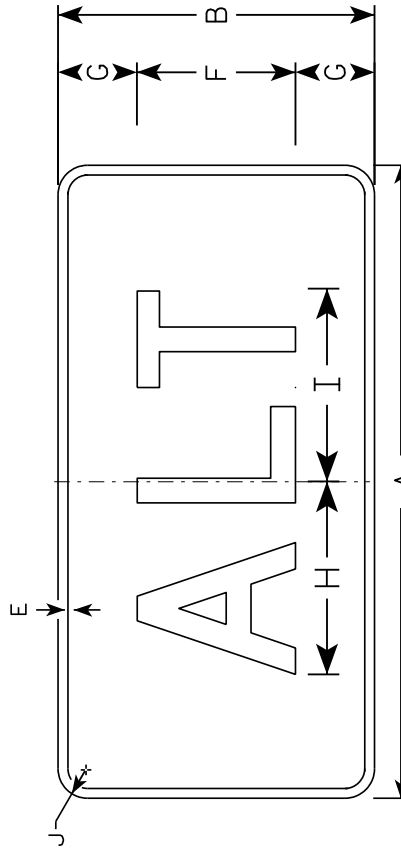
WISCONSIN DEPT OF TRANSPORTATION
 APPROVED *Matthew P. Raub*
 For State Traffic Engineer
 DATE 10/15/15 PLATE NO. M3-1.14

NOTES

1. Sign is Type II - Type H except as Shown
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. M4-1A Background - White
Message - Black
MB4-1A Background - Blue
Message - White
M04-1A Background - Orange - Type F
Message - Black



M4 - 1A
M04 - 1A



MB4 - 1A

Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 254D
June 6, 2017

STANDARD SIGN
M4 - 1A

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Raub*
for State Traffic Engineer

DATE 6/30/14 PLATE NO. M4-1A.3

SHEET NO: 254D

PLOT NAME :
PLOT DATE : 30-JUN-2014 15:28
PLOT BY : mscsjj

PLOT SCALE : 4.70893711.000000

COUNTY:

HWY:

PROJECT NO:

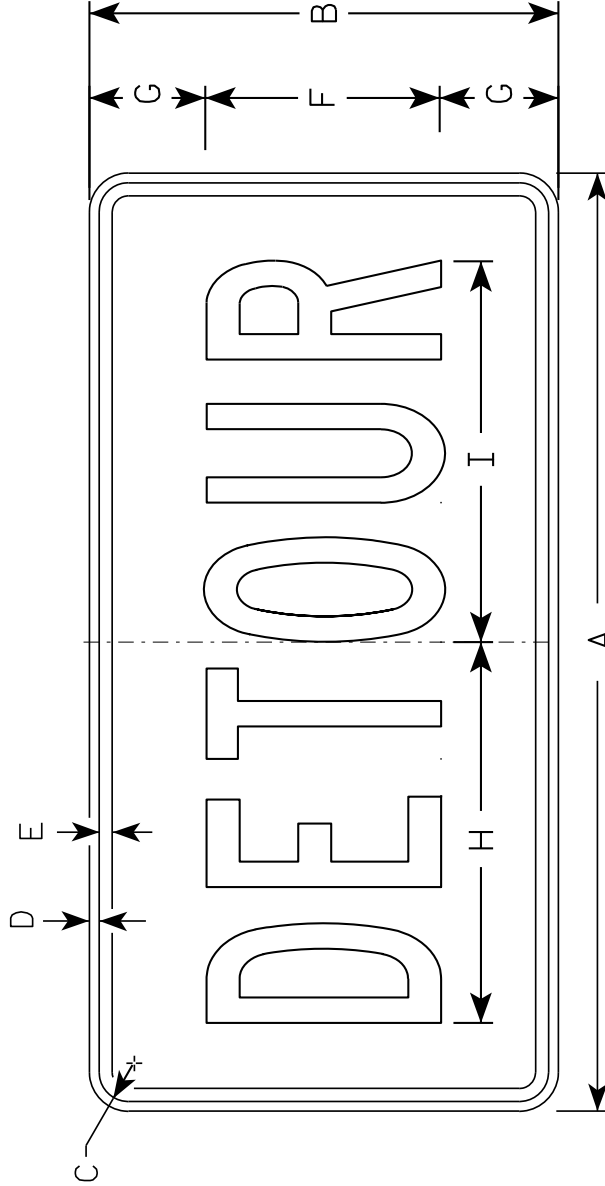
FILE NAME : I:\C:\GAEF_files\Projects\TF_stdplote\M41A.DGN

WISDOT/CADD SHEET 42

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 1/4	7 3/8	1 1/8																	2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	11	11 1/8	1 1/8																	4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	11	11 1/8	1 1/8																	4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	11	11 1/8	1 1/8																	4.5

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 - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



M4 - 8

Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 254E
June 6, 2017

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	IN. EQ. ACC. TO:
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 3/8	14 1/2																		4.5
4																											
5																											

STANDARD SIGN
M4 - 8

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew P. Kusch*
for State Traffic Engineer

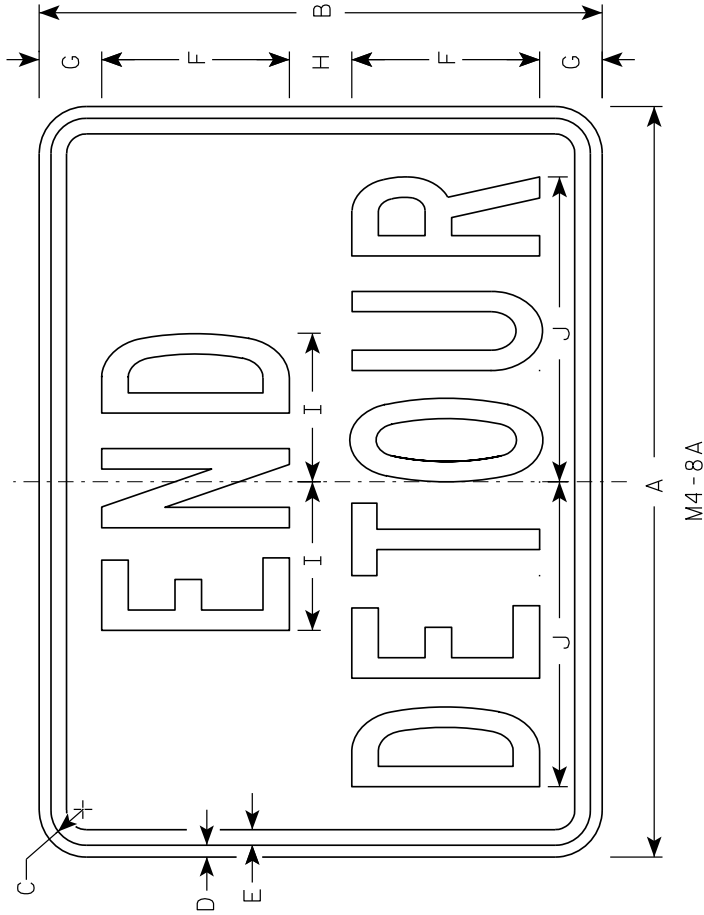
DATE 11/10/10. PLATE NO. M4-8.2

PROJECT NO: _____ COUNTY: _____ HWY: _____ SHEET NO: 254E E

FILE NAME : C:\Users\PROJECTS\T...s\h\plate\M4-8.DGN PLOT DATE : 10-NOV-2010 13:18 PLOT BY : dlj,jsh PLOT NAME : PLOT SCALE : 4:76723311:000000 WISDOT/CADDIS 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. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 254F
June 6, 2017

STANDARD SIGN	M4 - 8A
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED <i>Matthew R. Rauch</i> for State Traffic Engineer	
DATE 3/9/11	PLATE NO. M4-8A.2

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																										
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																5.0
4																										
5																										

PROJECT NO: _____ COUNTY: _____ HWY: _____

FILE NAME : C:\Users\PROJECTS\11-std\plate\M4-8A.DGN

PLOT DATE : 09-MAR-2011 10:29

PLOT BY : mscj/gh

PLOT NAME : _____

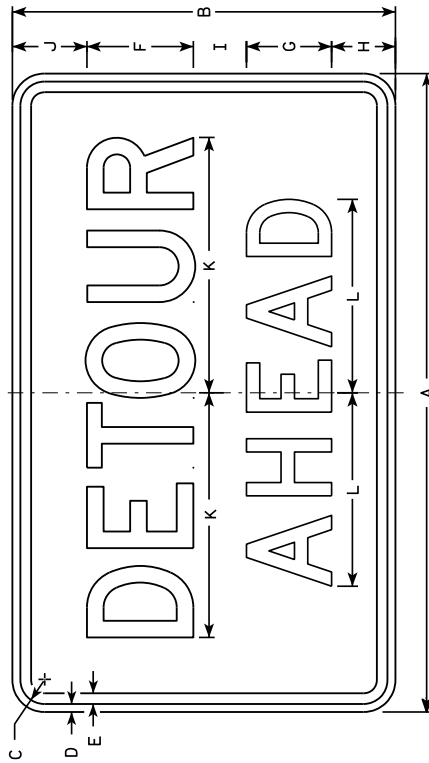
PLOT SCALE : 3:97269611.000000

WISDOT/CADDIS SHEET 42

SHEET NO: 254F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



M4-9A

Addendum No. 02
 ID 1060-28-70 &
 ID 1228-21-71
 Added Sheet 254G
 June 6, 2017

STANDARD SIGN
 M4-9A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
 State Traffic Engineer

DATE 3/24/16 PLATE NO. M4-9A.1

SHEET NO: 254G

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																											
2	30	18	1 1/8	3/8	1/2	5	4	3	2 1/2	3 1/2	11 3/4	9 1/8															5.0
3																											
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

PLOT DATE : 24-MAR-2016 16:26

PLOT BY : mscsjj

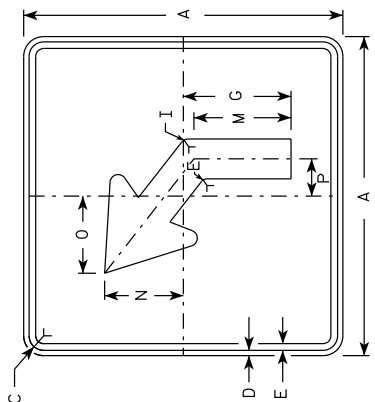
PLOT NAME :

PLOT SCALE : 5.83752611.000000

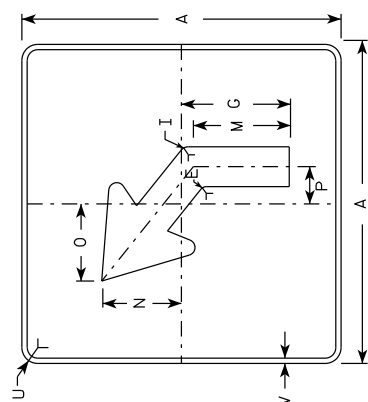
WISDOT/CADD SHEET 42

NOTES

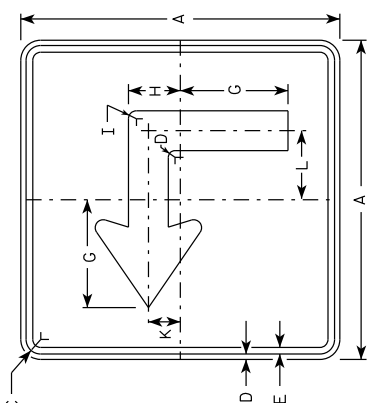
- Signs are Type II - Type H reflective except as shown
- Color:
 - Background - See note 4
 - Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M5-1 and 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
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.



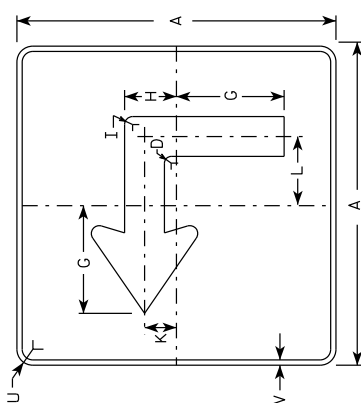
M5-2L
MK5-2L
MN5-2L
MP5-2L



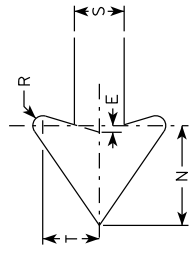
MB5-2L
MK5-2L
MN5-2L
MR5-2L



M5-1L
MM5-1L
MN5-1L
MP5-1L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 254H
June 6, 2017

STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew P. Rauch*
For State Traffic Engineer

DATE 10/15/15 PLATE NO. M5-1.13

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	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	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	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	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

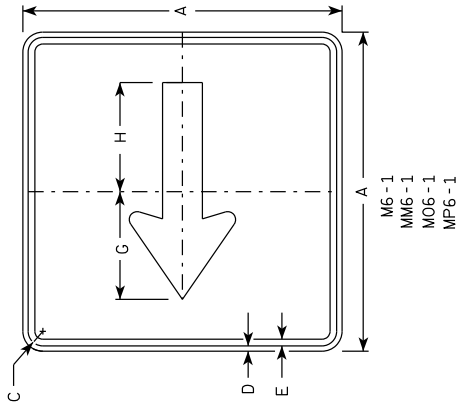
PROJECT NO: _____ COUNTY: _____ HWY: _____

DATE: _____ COUNTY: _____

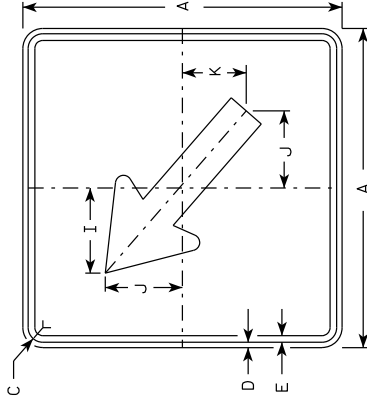
PILOT DATE: 01-DEC-2015 18-07 PILOT REV: 66 PILOT NAME: _____

PILOT SCALE: 1:1 676051:1 00000

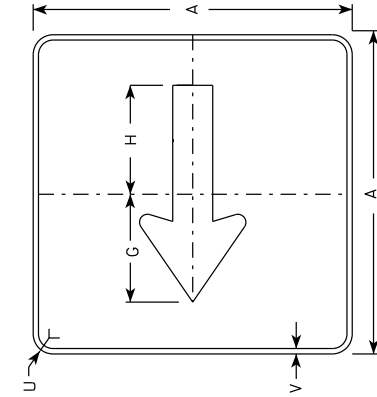
SHEET NO: 254H



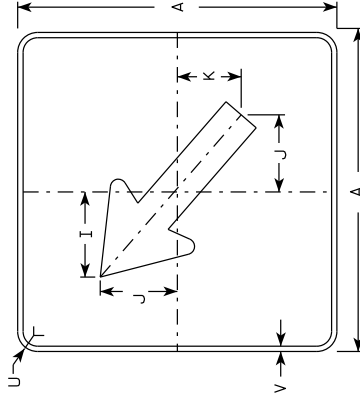
M6-1
MM6-1
M06-1
MP6-1



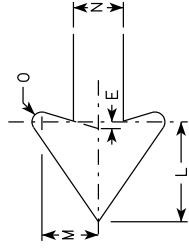
M6-2
MM6-2
M06-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



NOTES

- Signs are Type II - Type H except as Shown
- Color:
Background - See note 4
Message - See note 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.
- 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
M06-1 and M06-2 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

Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 2541
June 6, 2017

STANDARD SIGN
M6-1 & M6-2
SERIES

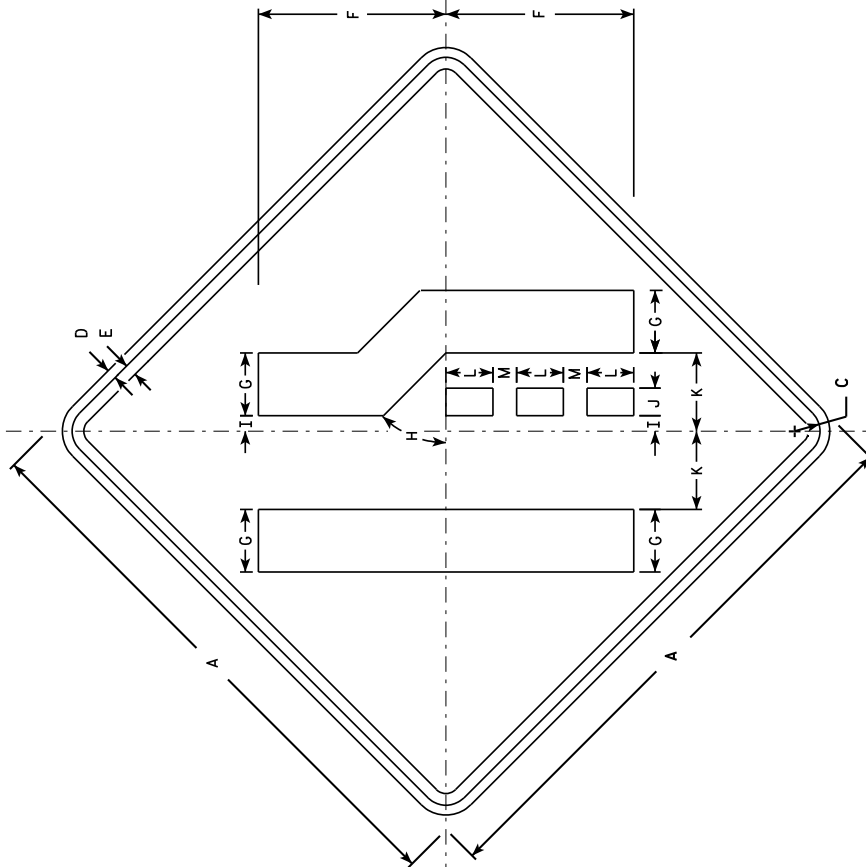
WISCONSIN DEPT OF TRANSPORTATION
APPROVED
Matthew P. Raub
For State Traffic Engineer
DATE 10/15/15 PLATE NO. M6-115

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																										3.06
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					6.25
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

PROJECT NO: COUNTY: HWY: SHEET NO: 2541 E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbols are reversed along the vertical centerline.



W4-2R

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	SPR. DR. TH.
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

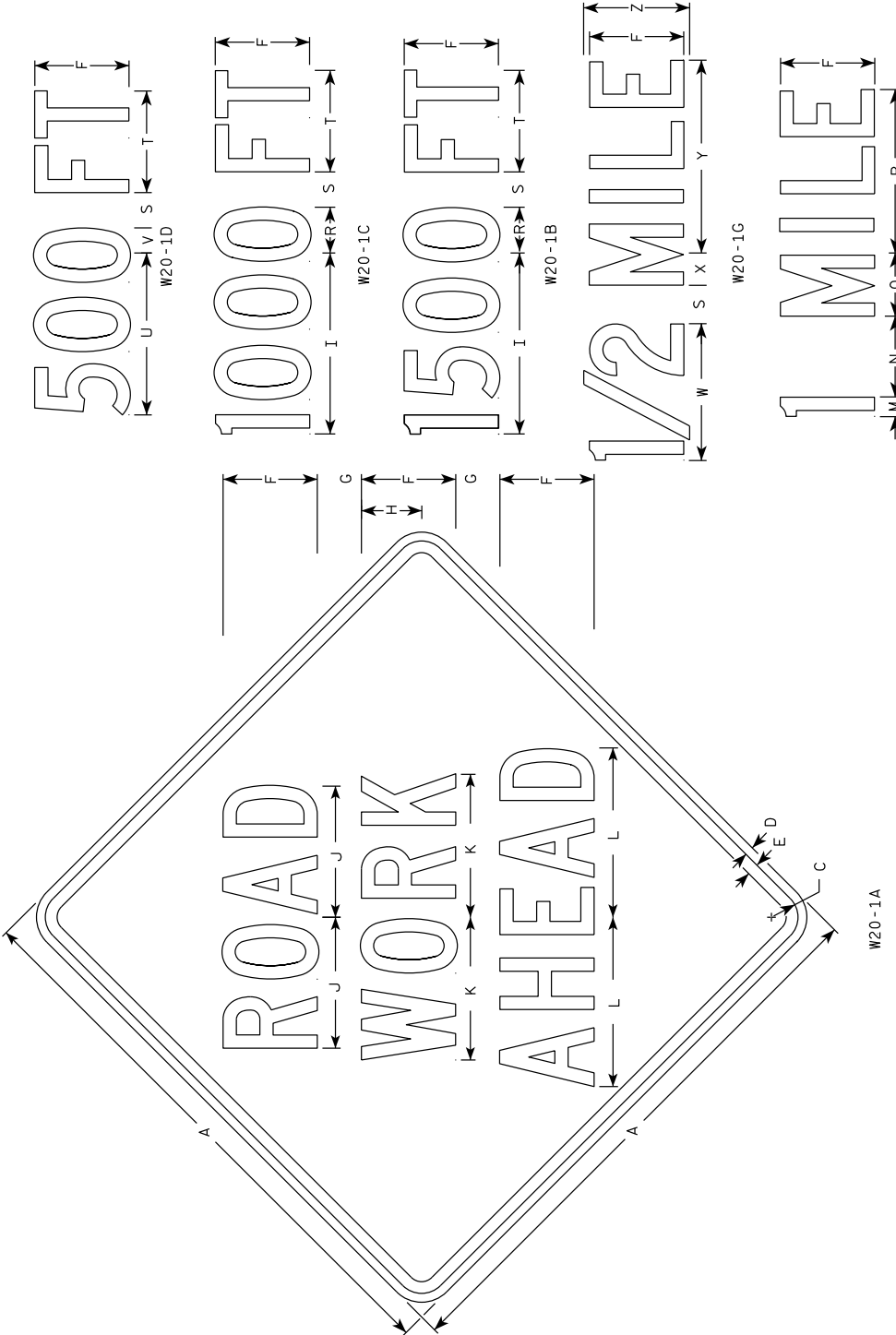
WISCONSIN DEPT OF TRANSPORTATION
APPROVED
Matthew L. Raub
State Traffic Engineer
DATE 3/12/13 PLATE NO. W4-2,14

SHEET NO: 254K E

NOTES

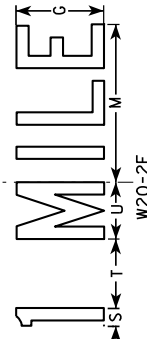
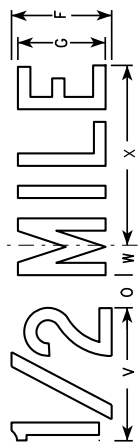
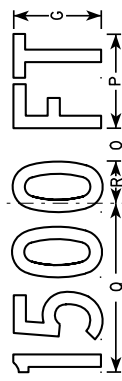
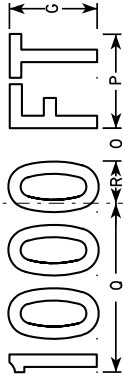
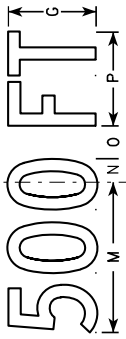
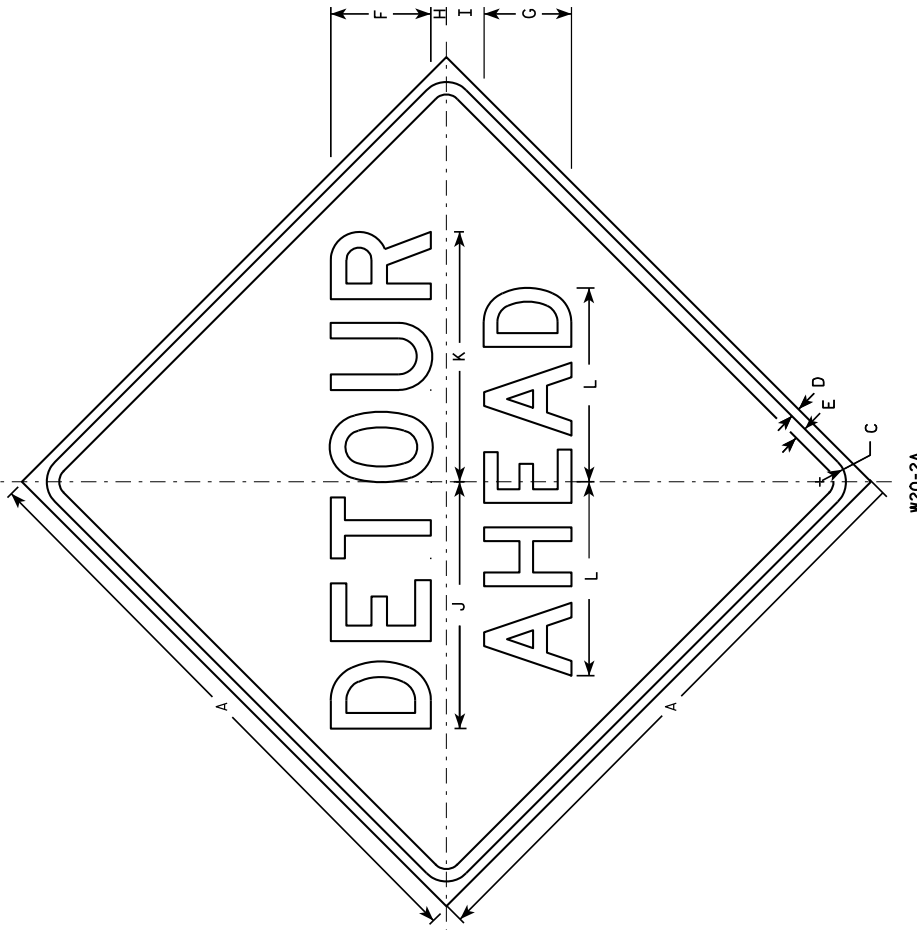
1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 254L
June 6, 2017



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. Raush*
State Traffic Engineer
DATE 5.07/16 PLATE NO. W20-110



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
Line 2 is Series D for AHEAD and Series C for all other distances.

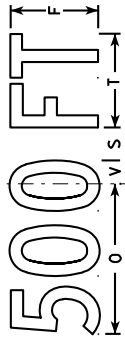
Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 254M
June 6, 2017

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	3/4	3/4	6	5	1	2 1/4	3	14 3/4	15	11 3/8	9	1 3/8	5 3/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

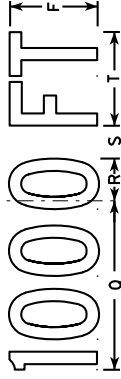
STANDARD SIGN
W20-2A, B, C, D, F & G
WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew J. Pausch*
DATE 3/18/11 FOR STATE ENGINEER PLATE NO. W20-2.6

NOTES

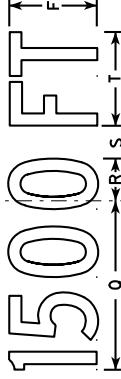
1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be 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.



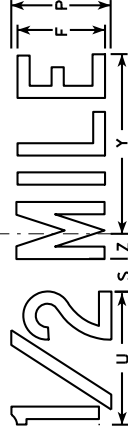
W20-3D



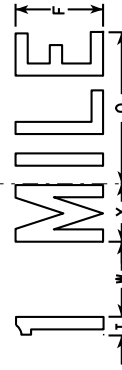
W20-3C



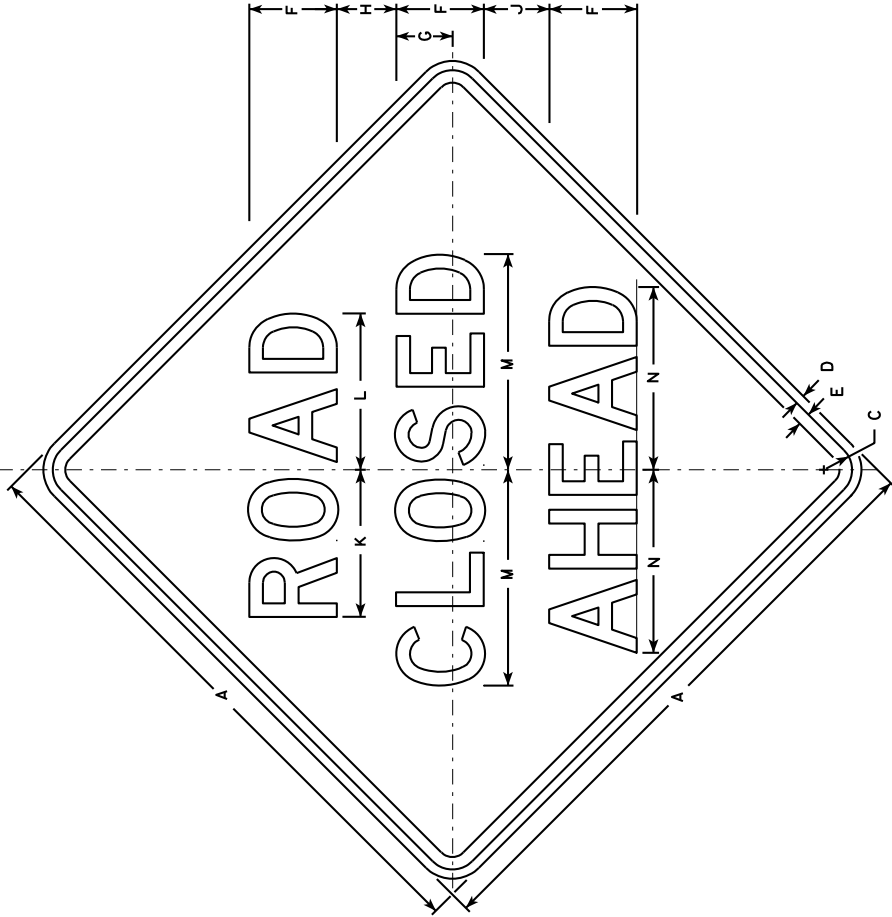
W20-3B



W20-3G



W20-3F



W20-3A

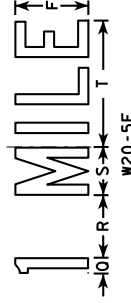
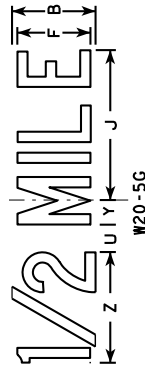
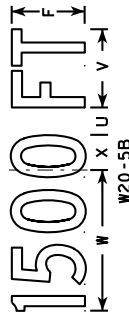
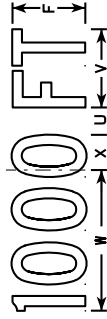
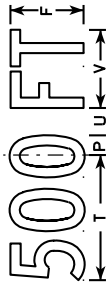
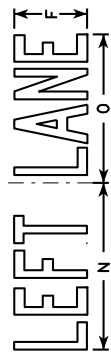
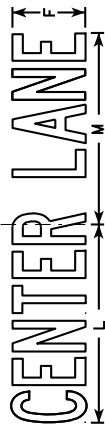
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	WGT. LB.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 3/8	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 3/8	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 3/8	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 3/8	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 3/8	6	4 5/8	14 3/8	2 3/8	16.0	

Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 254N
June 6, 2017

STANDARD SIGN
W20-3A, B, C, D, F & G
WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew P. Raab*
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3L

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. "-----LANE" is Series B.
All other copy is Series C.

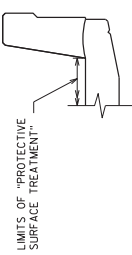


W20-5A

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	6	1 5/8	5/8	3/4	7/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 7/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	1 1/4	3 1/4	17 1/2	14 3/8	12 3/8	19	18 3/8	16	14 1/4	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 3/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16														

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SF	3,076
505.0600	BAR STEEL REINFORCEMENT HIS COATED STRUCTURES	LB	1,000
505.0300	PREPARATION DECKS TYPE 1	SF	83
503.0302	PREPARATION DECKS TYPE 2	SY	66
503.0500	CLEANING DECKS	SY	13
503.2000	FULL-DEPTH DECK REPAIR	SY	1
502.2500	CONCRETE MASONRY OVERLAY DECKS	CY	224
SPV.0060.002	CLEAN DRAINS	EACH	4
SPV.0180.001	REMOVING ASPHALTIC CONCRETE OVERLAY SPECIAL	SY	3,064



PROTECTIVE SURFACE TREATMENT DETAIL

GENERAL NOTES

- DRAWINGS AND STATIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS AND SHOP DRAWINGS.
- THE PROPOSED WORK INCLUDES REMOVING THE 2" EXISTING ASPHALT CONCRETE OVERLAY AND PLACEMENT OF A 2 1/2" MINIMUM CONCRETE OVERLAY.
- PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.
- THE EXISTING ASPHALTIC OVERLAY AND A MINIMUM OF 1/8" TO A MAXIMUM OF 1/4" OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK.
- EXISTING STEEL REINFORCEMENT IN THE DECK IS EXPECTED TO HAVE MINIMAL CONCRETE COVER. IN SOME LOCATIONS BARS MAY BE EXPOSED DIRECTLY BELOW THE ASPHALT OVERLAY. CLOSELY MONITOR MILLING DEPTH TO AVOID DAMAGE TO EXISTING REINFORCEMENT.
- REPLACE DAMAGED DECK REINFORCEMENT IN KIND, AS DIRECTED BY THE ENGINEER, UNDER THE BID ITEM "BAR STEEL REINFORCEMENT HIS COATED STRUCTURES".
- REMOVAL OF ALL ASPHALT MATERIAL ADHERED TO THE DECK OR REINFORCEMENT IS INCLUDED IN THE BID ITEM "REMOVING ASPHALTIC CONCRETE OVERLAY SPECIAL".
- CRACKS IN THE OVERLAY SHALL BE SEALED WITH A LOW-VISCOSITY CRACK SEALER (SEE STANDARD SPECIFICATIONS SECTION 502). COST IS INCLUDED IN THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".
- "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" AREAS ARE BASED ON INFERRED THERMOGRAPHY DATA. QUANTITIES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL PREVIOUS PATCHES SHALL BE REMOVED UNDER THE BID ITEM FOR "PREPARATION DECKS TYPE 1" AND "PREPARATION DECKS TYPE 2".
- MATERIALS, EQUIPMENT, ETC., SHALL NOT BE STOCKPILED/STORED ON THE BRIDGE DECK WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD TO MATCH THE EXISTING DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2 1/2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.
- EXISTING FLOOR DRAINS TO REMAIN IN PLACE. REMOVE TOP OF DECK IN DRAIN AREA AS DIRECTED BY THE FIELD ENGINEER TO ALLOW PLACING AND SLOPING OF 2 1/8" MINIMUM CONCRETE OVERLAY AROUND THE RIM OF THE DRAIN.
- ANY DRAINS OR GRATES DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ENSURE GRATES ARE REMOVABLE AFTER OVERLAY IS PLACED.
- SOUTHERN LIMIT OF THE PROPOSED CONCRETE OVERLAY STARTS AT STA. 197H+89.94 WHICH IS THE LIMIT OF THE PREVIOUSLY PLACED CONCRETE OVERLAY FROM PROJECT 1228-20-70.
- THE EXISTING STRUCTURE, B-40-285-27F-2, IS A 3 SPAN STEEL GIRDER-FLOOR BEAM/STRINGER FLOOR SYSTEM BRIDGE WITH A DECK LENGTH OF 553'-9 3/4" ALONG E HL.

HORIZONTAL ALIGNMENTS

LOCN	STATION	NORTHING	EASTING	BEARING	RADIUS	ARC LENGTH	DEFIN'N ANGLE
PC	196+46.69	295541.0	602523.88	N 13°32'51" W			
PI	191+94.43	295875.16	602442.42		2864.79	692.10	13°50'31" RT
PT	203+38.79	296226.90	602444.21	N 0°17'40" E			
PC	196H+46.69	295528.68	602472.36	N 13°32'51" W			
PI	200H+00.86	295873.00	602389.39		2917.79	704.91	13°50'31" RT
PT	A 303H+38.79	296227.18	602391.21	N 0°17'40" E			
PC	20E5+23.22	295941.50	602395.85	N 8°56'17" W			
PI	22E5+54.53	296170.00	602359.92		2864.79	461.62	9°13'57" RT
PT	24E5+84.83	296401.30	602361.10	N 0°17'40" E			

William C. Dehn
05/31/17



5/30/2017

Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Revised Sheet 264
June 6, 2017

NO.	DATE	REVISION	BY
05/30/2017		ADD. #2, REV. NOTES & QUANTITIES	JRS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

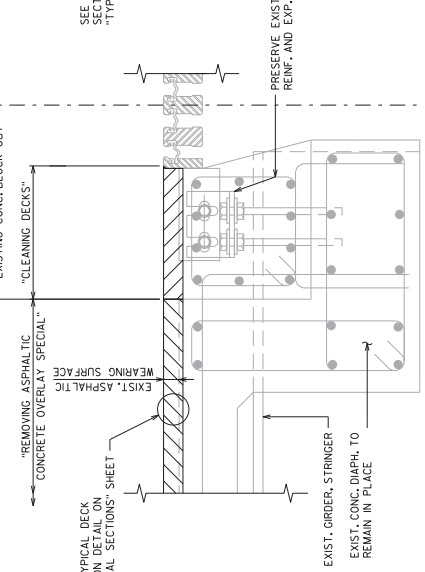
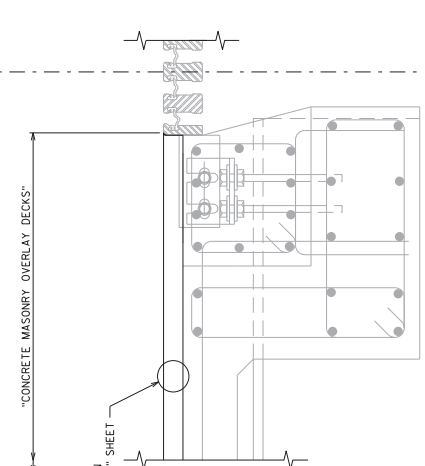
STRUCTURE B-40-285-27F-2

DRAWN BY: JRS
CHECKED BY: JRS

GENERAL NOTES AND QUANTITIES

SHEET 2 OF 7

264

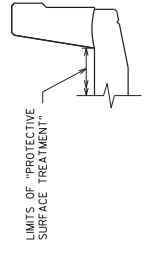


Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Revised Sheet 271
June 6, 2017

STATE PROJECT NUMBER
1228-21-71

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	6,177
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,000
509.0300	PREPARATION DECKS TYPE 1	SY	542
509.0302	PREPARATION DECKS TYPE 2	SY	217
509.0500	CLEANING DECKS	SY	29
509.2000	FULL-DEPTH DECK REPAIR	SY	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	526
SPV.0060.001	REMOVE AND RESET EXISTING CRASH CUSHION	EACH	1
SPV.0060.002	CLEAN DRAINS	EACH	8
SPV.0060.024	INSPECT DOWNSPOUT SYSTEM	EACH	6
SPV.0060.025	CLEAN DOWNSPOUT SYSTEM	EACH	3
SPV.0060.001	REMOVING ASPHALTIC CONCRETE OVERLAY SPECIAL	SY	6,149



PROTECTIVE SURFACE TREATMENT DETAIL



5/30/2017

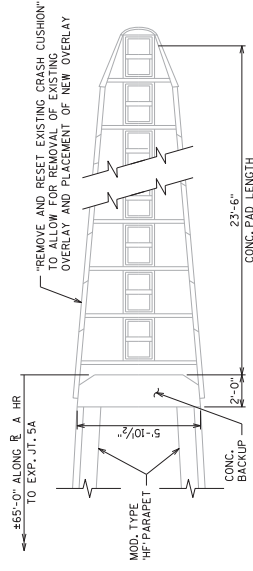
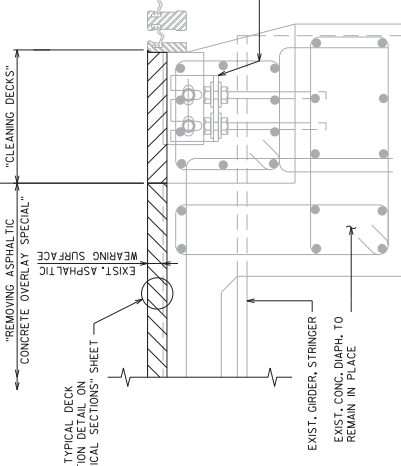
QUANTITY IS BASED ON AN ESTIMATED PERCENTAGE OF DOWNSPOUTS CLOGGED.
 QUANTITY IS AN ASSUMED VALUE AND WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

HORIZONTAL ALIGNMENTS

LOC#	STATION	NORTHING	EASTING	BEARING	RADIUS	ARC LENGTH	DEFIN ANGLE
PC	196+46.69	295541.0	602523.88	N 13°32'51" W			
PI	199+94.43	295875.16	602442.42		2864.79	692.10	13°50'31" RT
PT	203+38.79	296226.90	602444.21	N 0°17'40" E			
PC	196HR+46.69	295553.51	602575.41	N 13°32'51" W			
PI	199HR+88.00	295885.33	602495.45		2811.79	679.30	13°50'31" RT
PT	203HR+38.79	296226.63	602497.21	N 0°17'40" E			
PC	205E+97.01	295582.07	602568.68	N 10°01'47" W			
PI	245E+32.76	295912.69	602510.21		2803.29	668.32	13°39'34" RT
PT	275E+65.33	296247.76	602531.47	N 3°37'47" E			

GENERAL NOTES

- DIMENSIONS AND STATIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS AND SHOP DRAWINGS.
- THE PROPOSED WORK INCLUDES REMOVING THE 2" EXISTING ASPHALT CONCRETE OVERLAY AND PLACEMENT OF A 2 1/2" MINIMUM CONCRETE OVERLAY.
- PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.
- THE EXISTING ASPHALTIC OVERLAY AND A MINIMUM OF 1/8" TO A MAXIMUM OF 1/4" OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK.
- EXISTING STEEL REINFORCEMENT IN THE DECK IS EXPECTED TO HAVE MINIMAL CONCRETE COVER. IN SOME LOCATIONS BARS MAY BE EXPOSED DIRECTLY BELOW THE ASPHALT OVERLAY. CLOSELY MONITOR MILLING DEPTH TO AVOID DAMAGE TO EXISTING REINFORCEMENT.
- REPLACE DAMAGED DECK REINFORCEMENT IN KIND, AS DIRECTED BY THE ENGINEER, UNDER THE BID ITEM "BAR STEEL REINFORCEMENT HS COATED STRUCTURES".
- REMOVAL OF ALL ASPHALT MATERIAL ADHERED TO THE DECK OR REINFORCEMENT IS INCLUDED UNDER THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".
- CRACKS IN THE OVERLAY SHALL BE SEALED WITH A LOW-VISCOSITY CRACK SEALER (SEE STANDARD SPECIFICATIONS SECTION 502). COST IS INCLUDED IN THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".
- "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" AREAS ARE BASED ON INFERRED THERMOGRAPHY DATA. QUANTITIES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL PREVIOUS PATCHES SHALL BE REMOVED UNDER THE BID ITEM FOR "PREPARATION DECKS TYPE 1" AND "PREPARATION DECKS TYPE 2".
- MATERIALS, EQUIPMENT, ETC., SHALL NOT BE STOCKPILED/STORED ON THE BRIDGE DECK WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD TO MATCH THE EXISTING DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2 1/2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.
- EXISTING FLOOR DRAINS TO REMAIN IN PLACE. REMOVE TOP OF DECK IN DRAIN AREA AS DIRECTED BY THE FIELD ENGINEER TO ALLOW PLACING AND SLOPING OF 2 1/2" MINIMUM CONCRETE OVERLAY AROUND THE RIM OF THE DRAIN.
- ANY DRAINS OR GRATES DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ENSURE GRATES ARE REMOVABLE AFTER OVERLAY IS PLACED.
- THE EXISTING STRUCTURE B-40-285-270 IS A SPAN STEEL GIRDER. FLOOR BEAM/STRINGER FLOOR SYSTEM BRIDGE WITH A DECK LENGTH OF 68'-3 1/2" ± ALONG E HR AND E A HR.



NOTE: PRESERVE EXISTING ANCHOR BOLTS; USE CAUTION WHEN REMOVING THE EXISTING OVERLAY TO AVOID DAMAGE TO CONCRETE ANCHOR BOLTS.

ROUTE OUT 1/2" x 3/8" DEEP AT JOINT. FILL IN WITH LOW VISCOSITY CRACK SEALER. REFER TO STRUCTURES LIST, INCIDENTAL TO "CONCRETE MASONRY OVERLAY DECKS"

William C. Decker
 05/31/17

NO.	DATE	REVISION	BY
05/30/2017		ADD, #2, REV. NOTES & QUANTITIES	JRS

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 STRUCTURE B-40-285-270
 DRAWN BY: JRS
 CHECKED BY: JRS
 SHEET 2 OF 8
 QUANTITIES: 271

CONSTRUCTION JOINT DETAIL

APPLIES TO LONGIT. AND TRANS. STAGE CONST. JTS.

PROPOSED SECTION THROUGH JOINT

(ADJACENT STRUCTURE NOT SHOWN)

REMOVAL SECTION THROUGH JOINT

(ADJACENT STRUCTURE NOT SHOWN)

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	6,039
505.0600	BAR STEEL REINFORCEMENT HIS COATED STRUCTURES	LB	1,000
505.0300	PREPARATION DECKS TYPE 1	SY	583
509.0302	PREPARATION DECKS TYPE 2	SY	234
509.0500	CLEANING DECKS	SY	27
509.2000	FULL-DEPTH DECK REPAIR	SY	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	454
SPV.0060.002	CLEAN DRAINS	EACH	10
SPV.0060.024	INSPECT DOWNSPOUT SYSTEM	EACH	3
SPV.0060.025	CLEAN DOWNSPOUT SYSTEM	EACH	2
SPV.0060.001	REMOVING ASPHALTIC CONCRETE OVERLAY SPECIAL	SY	6,012

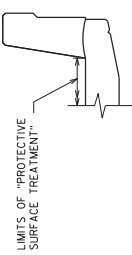
GENERAL NOTES

- DIMENSIONS AND STATIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS AND SHOP DRAWINGS.
- THE PROPOSED WORK INCLUDES REMOVING THE 2" EXISTING ASPHALT CONCRETE OVERLAY AND PLACEMENT OF A 2 1/2" MINIMUM CONCRETE OVERLAY.
- PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.
- THE EXISTING ASPHALTIC OVERLAY AND A MINIMUM OF 1/8" TO A MAXIMUM OF 1/4" OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK.
- EXISTING STEEL REINFORCEMENT IN THE DECK IS EXPECTED TO HAVE MINIMAL CONCRETE COVER. IN SOME LOCATIONS BARS MAY BE EXPOSED DIRECTLY BELOW THE ASPHALT OVERLAY. CLOSELY MONITOR MILLING DEPTH TO AVOID DAMAGE TO EXISTING REINFORCEMENT.
- REPLACE DAMAGED DECK REINFORCEMENT IN KIND, AS DIRECTED BY THE ENGINEER, UNDER THE BID ITEM "BAR STEEL REINFORCEMENT HIS COATED STRUCTURES".
- REMOVAL OF ALL ASPHALT MATERIAL ADHERED TO THE DECK OR REINFORCEMENT IS INCLUDED UNDER THE BID ITEM "REMOVING ASPHALTIC CONCRETE OVERLAY SPECIAL".
- CRACKS IN THE OVERLAY SHALL BE SEALED WITH A LOW-VISCOSITY CRACK SEALER (SEE STANDARD SPECIFICATIONS SECTION 502). COST IS INCLUDED IN THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".
- "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" AREAS ARE BASED ON INFERRED THERMOGRAPHY DATA. QUANTITIES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL PREVIOUS PATCHES SHALL BE REMOVED UNDER THE BID ITEM FOR "PREPARATION DECKS TYPE 1" AND "PREPARATION DECKS TYPE 2".
- MATERIALS, EQUIPMENT, ETC., SHALL NOT BE STOCKPILED/STORED ON THE BRIDGE DECK WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD TO MATCH THE EXISTING DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2 1/2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.
- EXISTING FLOOR DRAINS TO REMAIN IN PLACE. REMOVE TOP OF DECK IN DRAIN AREA AS DIRECTED BY THE FIELD ENGINEER TO ALLOW PLACING AND SLOPING OF 2 1/2" MINIMUM CONCRETE OVERLAY AROUND THE RIM OF THE DRAIN.
- ANY DRAINS OR GRATES DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ENSURE GRATES ARE REMOVABLE AFTER OVERLAY IS PLACED.
- THE EXISTING STRUCTURE B-40-285-27H IS A SPAN STEEL GIRDER, FLOOR BEAM/STRINGER FLOOR SYSTEM BRIDGE WITH A DECK LENGTH OF 619'-0 1/4" ALONG E HL AND E HL AND E HL.

HORIZONTAL ALIGNMENTS

LOC'N	STATION	NORTHING	EASTING	BEARING	RADIUS	ARC LENGTH	DEF'L N ANGLE
PC	196+46.69	295541.00	602523.88	N 13°32'51" W	2864.79	692.10	13°50'31" RT
PI	199+94.43	295879.16	602442.42				
PT	203+38.79	296226.90	602444.21	N 0°17'40" E			
PC	196HL+46.69	295528.68	602472.36	N 13°32'51" W		704.91	13°50'31" RT
PI	200HL+00.86	295873.00	602389.59				
PT	A 303HL+38.79	296227.18	602391.21	N 0°17'40" E			
PC	205S+23.22	295941.50	602395.85	N 8°56'17" W	2864.79	461.62	9°13'15" RT
PI	225S+54.53	296170.00	602359.92				
PT	245S+84.83	296401.30	602351.10	N 0°17'40" E			
PC	265S+33.93	296550.40	602351.87	N 0°17'40" E			

★ QUANTITY IS BASED ON AN ESTIMATED PERCENTAGE OF DOWNSPOUTS CLOGGED.
★ QUANTITY IS AN ASSUMED VALUE AND WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.



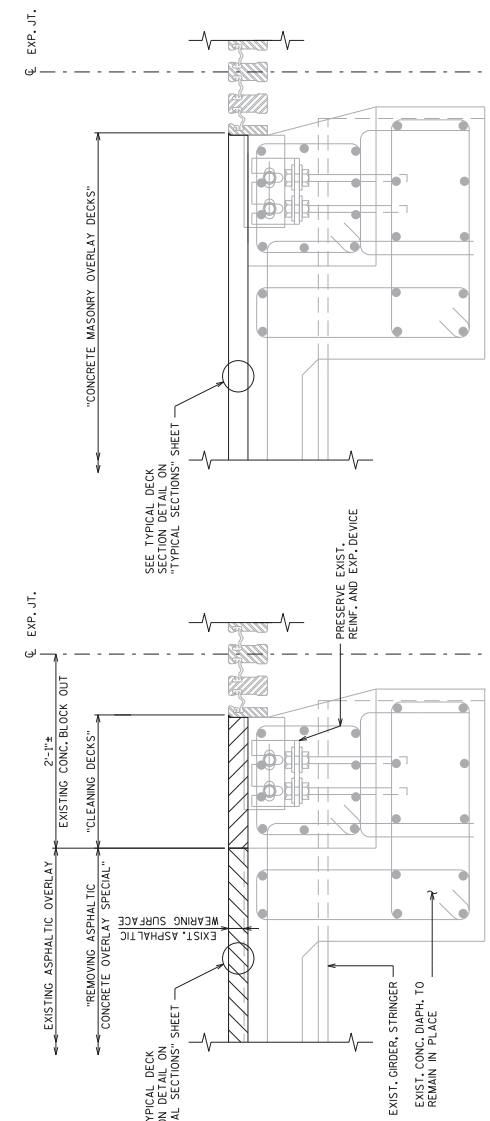
PROTECTIVE SURFACE TREATMENT DETAIL



William C. Decker
05/31/17

Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Revised Sheet 279
June 6, 2017

5/30/2017



PROPOSED SECTION THROUGH JOINT

REMOVAL SECTION THROUGH JOINT

(ADJACENT STRUCTURE NOT SHOWN)

(ADJACENT STRUCTURE NOT SHOWN)

CONSTRUCTION JOINT DETAIL

APPLIES TO LONGIT. AND TRANS. STAGE CONST. JTS.

NO.	DATE	REVISION	BY
05/30/2017		ADD. #2 REV. NOTES & QUANTITIES	JRS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-285-27H

DRAWN BY: JRS
CHECKED BY: JRS

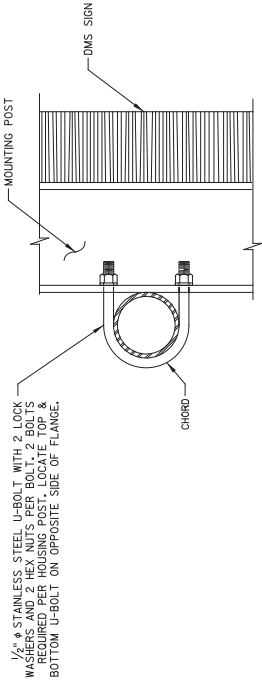
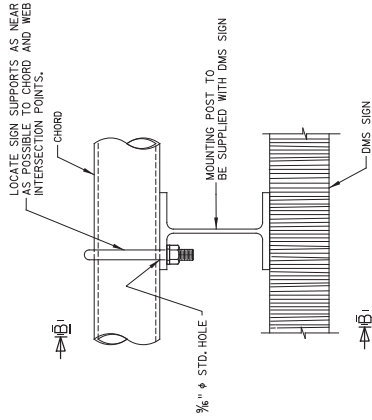
SHEET 2 OF 6
QUANTITIES 279

NOTES:

THE DMS HOUSING MOUNTING POSTS SHALL BE SUPPLIED WITH THE DMS SIGN AND SHALL BE INCIDENTAL TO THE BID ITEM "INSTALL OVERHEAD FREEWAY DMS FULL MATRIX".

CONTRACTOR SHALL CONTACT PERMITTERS FOR MAXIMUM SPACING OF DMS MOUNTING POSTS. SPACING MAY BE ADJUSTED AS REQUIRED IF CONFLICT WITH TRUSS IS ENCOUNTERED. MAXIMUM SPACING SHALL NOT BE EXCEED, AND SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "INSTALL OVERHEAD FREEWAY DMS FULL MATRIX".

**Addendum No. 02
ID 1060-28-70 &
ID 1228-21-71
Added Sheet 349A
June 6, 2017**



SECTION B-B

DMS SIGN CONNECTION



REGION CONTACT:
JOSHUA LEVEQUE (414) 750-4668

BUREAU DE STRUCTURES CONTACT:
WILLIAM DREHER (609) 266-8489

CONSULTANT CONTACT:
VERONICA CHAVEZ DE FERNANDEZ
(414) 282-6905

NO.	DATE	ORIGINAL SHEET	REVISION	BY
1				

COLLINS ENGINEERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED: *William D. Dreher* 06/01/17
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE 5-40-403

COUNTY: MILWAUKEE TOWN/CITY/VILLAGE: MILWAUKEE
DESIGN SPEC. ASHITO STL. SPECS FOR HIGHWAY SIGNS 6TH ED.
DESIGNED BY: JWM/BJM/VC/CKD
CHECKED BY: JWM/BJM/VC/CKD

DMS SIGN PANEL CONNECTION DETAIL

SHEET 1 OF 1

349A



Proposal Schedule of Items

Proposal ID: 20170613007 Project(s): 1060-28-70, 1228-21-71

Federal ID(s): WISC 2017317, WISC 2017319

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0010	204.0120 Removing Asphaltic Surface Milling	780.000 SY	_____.	_____.
0020	204.9060.S Removing (item description) 001. Permanent Crash Cushion	1.000 EACH	_____.	_____.
0030	204.9060.S Removing (item description) 002. Microwave Detector	13.000 EACH	_____.	_____.
0040	204.9060.S Removing (item description) 003. Pole	8.000 EACH	_____.	_____.
0050	209.0200.S Backfill Controlled Low Strength	40.000 CY	_____.	_____.
0060	305.0120 Base Aggregate Dense 1 1/4-Inch	40.000 TON	_____.	_____.
0070	465.0105 Asphaltic Surface	130.000 TON	_____.	_____.
0080	495.1000.S Cold patch	30.000 TON	_____.	_____.
0090	502.2000 Compression Joint Sealer Preformed Elastomeric (width) 001. 1 1/4-Inch	206.000 LF	_____.	_____.
0100	502.3200 Protective Surface Treatment	32,962.000 SY	_____.	_____.
0110	509.0301 Preparation Decks Type 1	2,045.000 SY	_____.	_____.
0120	509.0302 Preparation Decks Type 2	823.000 SY	_____.	_____.
0130	509.0500 Cleaning Decks	152.000 SY	_____.	_____.
0140	509.1500 Concrete Surface Repair	17.000 SF	_____.	_____.
0150	509.2000 Full-Depth Deck Repair	6.000 SY	_____.	_____.
0160	509.2500 Concrete Masonry Overlay Decks	2,543.000 CY	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20170613007 Project(s): 1060-28-70, 1228-21-71

Federal ID(s): WISC 2017317, WISC 2017319

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0170	603.8000 Concrete Barrier Temporary Precast Delivered	5,323.000 LF	_____.	_____.
0180	603.8125 Concrete Barrier Temporary Precast Installed	8,712.000 LF	_____.	_____.
0190	606.0200 Riprap Medium	2.000 CY	_____.	_____.
0200	614.0805 Crash Cushions Permanent Low Maintenance	1.000 EACH	_____.	_____.
0210	614.0905 Crash Cushions Temporary	7.000 EACH	_____.	_____.
0220	618.0100 Maintenance And Repair of Haul Roads (project) 001. 1060-28-70	1.000 EACH	_____.	_____.
0230	618.0100 Maintenance And Repair of Haul Roads (project) 002. 1228-21-71	1.000 EACH	_____.	_____.
0240	619.1000 Mobilization	1.000 EACH	_____.	_____.
0250	643.0200.S Traffic Control Surveillance and Maintenance (project) 001. 1060-28-70	430.000 DAY	_____.	_____.
0260	643.0200.S Traffic Control Surveillance and Maintenance (project) 002. 1228-21-71	185.000 DAY	_____.	_____.
0270	643.0300 Traffic Control Drums	62,443.000 DAY	_____.	_____.
0280	643.0420 Traffic Control Barricades Type III	8,256.000 DAY	_____.	_____.
0290	643.0705 Traffic Control Warning Lights Type A	10,318.000 DAY	_____.	_____.
0300	643.0715 Traffic Control Warning Lights Type C	13,889.000 DAY	_____.	_____.
0310	643.0800 Traffic Control Arrow Boards	1,065.000 DAY	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20170613007 Project(s): 1060-28-70, 1228-21-71

Federal ID(s): WISC 2017317, WISC 2017319

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0320	643.0900 Traffic Control Signs	29,296.000 DAY	_____.	_____.
0330	643.0910 Traffic Control Covering Signs Type I	47.000 EACH	_____.	_____.
0340	643.0920 Traffic Control Covering Signs Type II	6.000 EACH	_____.	_____.
0350	643.1000 Traffic Control Signs Fixed Message	2,111.000 SF	_____.	_____.
0360	643.1050 Traffic Control Signs PCMS	1,025.000 DAY	_____.	_____.
0370	643.1055.S Truck or Trailer Mounted Attenuator	40.000 DAY	_____.	_____.
0380	643.2000 Traffic Control Detour (project) 001. 1060-28-70	1.000 EACH	_____.	_____.
0390	643.2000 Traffic Control Detour (project) 002. 1228-21-71	1.000 EACH	_____.	_____.
0400	643.3000 Traffic Control Detour Signs	128,883.000 DAY	_____.	_____.
0410	645.0120 Geotextile Type HR	8.000 SY	_____.	_____.
0420	646.0106 Pavement Marking Epoxy 4-Inch	79,300.000 LF	_____.	_____.
0430	646.0126 Pavement Marking Epoxy 8-Inch	429.000 LF	_____.	_____.
0440	646.0600 Removing Pavement Markings	23,197.000 LF	_____.	_____.
0450	646.0690.S Removing Pavement Markings Water Blasting	17,103.000 LF	_____.	_____.
0460	646.0790.S Removing Raised Pavement Markers	152.000 EACH	_____.	_____.
0470	646.0841.S Pavement Marking Grooved Wet Reflective Contrast Tape 4-Inch	7,529.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20170613007 Project(s): 1060-28-70, 1228-21-71

Federal ID(s): WISC 2017317, WISC 2017319

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0480	646.0843.S Pavement Marking Grooved Wet Reflective Contrast Tape 8-Inch	16,958.000 LF	_____.	_____.
0490	647.0166 Pavement Marking Arrows Epoxy Type 2	1.000 EACH	_____.	_____.
0500	647.0566 Pavement Marking Stop Line Epoxy 18-Inch	66.000 LF	_____.	_____.
0510	647.0726 Pavement Marking Diagonal Epoxy 12-Inch	4,238.000 LF	_____.	_____.
0520	647.0746 Pavement Marking Diagonal Epoxy 24-Inch	3,988.000 LF	_____.	_____.
0530	649.0400 Temporary Pavement Marking Removable Tape 4-Inch	91,935.000 LF	_____.	_____.
0540	649.0801 Temporary Pavement Marking Removable Tape 8-Inch	12,598.000 LF	_____.	_____.
0550	649.2100 Temporary Raised Pavement Markers Type I	950.000 EACH	_____.	_____.
0560	655.0610 Electrical Wire Lighting 12 AWG	300.000 LF	_____.	_____.
0570	657.0210 Transformer Bases Breakaway 15-17 Inch Bolt Circle	2.000 EACH	_____.	_____.
0580	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	9.000 EACH	_____.	_____.
0590	657.0322 Poles Type 5-Aluminum	9.000 EACH	_____.	_____.
0600	657.0375 Poles Type A	2.000 EACH	_____.	_____.
0610	657.0605 Luminaire Arms Single Member 4 1/2-Inch Clamp 4-FT	2.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20170613007 Project(s): 1060-28-70, 1228-21-71

Federal ID(s): WISC 2017317, WISC 2017319

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0620	657.0620 Luminaire Arms Single Member 6-Inch Clamp 4-FT	2.000 EACH	_____.	_____.
0630	670.0100 Field System Integrator	LS	LUMP SUM	_____.
0640	670.0200 ITS Documentation	LS	LUMP SUM	_____.
0650	673.0225.S Install Pole Mounted Cabinet	5.000 EACH	_____.	_____.
0660	675.0200 Install Controller Detector Processor Assembly	12.000 EACH	_____.	_____.
0670	675.0400.S Install Ethernet Switch	2.000 EACH	_____.	_____.
0680	SPV.0035 Special 001. Polyester Polymer Concrete Overlay With Milling and Trial Overlay	2,379.200 CY	_____.	_____.
0690	SPV.0045 Special 001. Portable Speed Trailer	20.000 DAY	_____.	_____.
0700	SPV.0045 Special 002. Dynamic Late Merge System	56.000 DAY	_____.	_____.
0710	SPV.0060 Special 001. Remove and Reset Existing Crash Cushion	5.000 EACH	_____.	_____.
0720	SPV.0060 Special 002. Clean Drains	46.000 EACH	_____.	_____.
0730	SPV.0060 Special 003. Baseline CPM Progress Schedule	1.000 EACH	_____.	_____.
0740	SPV.0060 Special 004. Monthly CPM Progress Schedule Updates	14.000 EACH	_____.	_____.
0750	SPV.0060 Special 005. Traffic Control Local Road Lane Closures	18.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20170613007 Project(s): 1060-28-70, 1228-21-71

Federal ID(s): WISC 2017317, WISC 2017319

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0760	SPV.0060 Special 006. Lamp Disposal High Intensity Discharge	442.000 EACH	_____.	_____.
0770	SPV.0060 Special 007. Remove Existing HPS Luminaire and Replace With LED C	167.000 EACH	_____.	_____.
0780	SPV.0060 Special 008. Remove Existing HPS Luminaire and Replace With LED D	68.000 EACH	_____.	_____.
0790	SPV.0060 Special 009. Remove Existing HPS Probeam and Replace With LED Probeam Luminaire	44.000 EACH	_____.	_____.
0800	SPV.0060 Special 010. Remove Existing HPS Wallpack and Replace With LED Wallpack	2.000 EACH	_____.	_____.
0810	SPV.0060 Special 011. Tunnel Luminaire Cleaning and Relamping 200 Watt HPS	13.000 EACH	_____.	_____.
0820	SPV.0060 Special 012. Tunnel Luminaire Cleaning and Relamping 400 Watt HPS	148.000 EACH	_____.	_____.
0830	SPV.0060 Special 013. Light Pole Rat Screens	167.000 EACH	_____.	_____.
0840	SPV.0060 Special 016. Direct Current Power Controller	5.000 EACH	_____.	_____.
0850	SPV.0060 Special 017. 12-Volt Detector Battery	5.000 EACH	_____.	_____.
0860	SPV.0060 Special 018. 24-Volt Power Supply	2.000 EACH	_____.	_____.
0870	SPV.0060 Special 019. Install Ethernet Bridge	6.000 EACH	_____.	_____.
0880	SPV.0060 Special 020. Replace Plaque Sequence Identification on Existing Poles	4.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20170613007 Project(s): 1060-28-70, 1228-21-71

Federal ID(s): WISC 2017317, WISC 2017319

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0890	SPV.0060 Special 021. Mobilizations Emergency Pavement Repair	4.000 EACH	_____.	_____.
0900	SPV.0060 Special 022. Fuse Holders	36.000 EACH	_____.	_____.
0910	SPV.0060 Special 023. Fuses Type FNQ	36.000 EACH	_____.	_____.
0920	SPV.0060 Special 024. Inspect Downspout System	34.000 EACH	_____.	_____.
0930	SPV.0060 Special 025. Clean Downspout System	18.000 EACH	_____.	_____.
0940	SPV.0060 Special 026. Field Splice Paint Inspection	54.000 EACH	_____.	_____.
0950	SPV.0060 Special 027. Overcoating Field Splices	191.000 EACH	_____.	_____.
0960	SPV.0060 Special 028. Cover Plate Replacement	1.000 EACH	_____.	_____.
0970	SPV.0060 Special 030. Traffic Control Close-Open Freeway to Freeway System Ramp	94.000 EACH	_____.	_____.
0980	SPV.0060 Special 031. Traffic Control Interim Freeway Lane Closure	311.000 EACH	_____.	_____.
0990	SPV.0060 Special 032. Traffic Control Close-Open Freeway Entrance Ramp	270.000 EACH	_____.	_____.
1000	SPV.0090 Special 001. Temporary Pavement Marking Wet Reflective Removable Tape 4-Inch	22,204.000 LF	_____.	_____.
1010	SPV.0090 Special 002. Downspout Special	102.000 LF	_____.	_____.
1020	SPV.0105 Special 001. Maintenance of Lighting Systems	LS	LUMP SUM	_____.



Proposal Schedule of Items

Proposal ID: 20170613007 Project(s): 1060-28-70, 1228-21-71

Federal ID(s): WISC 2017317, WISC 2017319

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1030	SPV.0105 Special 002. Lighting System Survey	LS	LUMP SUM	_____.
1040	SPV.0180 Special 001. Removing Asphaltic Concrete Overlay Special	32,813.000 SY	_____.	_____.
1050	SPV.0180 Special 002. Methacrylate Sealer	48.000 SY	_____.	_____.
1060	SPV.0180 Special 003. Concrete Pavement Repair Special	50.000 SY	_____.	_____.
1070	SPV.0195 Special 001. Asphaltic Pavement Repair Special	20.000 TON	_____.	_____.
1080	204.9060.S Removing (item description) 004. Removing Overhead Freeway DMS	1.000 EACH	_____.	_____.
1090	204.9060.S Removing (item description) 005. Removing Controller Cabinet	1.000 EACH	_____.	_____.
1100	204.9060.S Removing (item description) 006. Removing Controller Cabinet Base	1.000 EACH	_____.	_____.
1110	505.0600 Bar Steel Reinforcement HS Coated Structures	6,000.000 LB	_____.	_____.
1120	655.0635 Electrical Wire Lighting 2 AWG	360.000 LF	_____.	_____.
1130	674.0300 Remove Cable	120.000 LF	_____.	_____.
1140	678.0100.S Install Overhead Freeway DMS Full Matrix	2.000 EACH	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.