

MULTIMODAL ACCESS CLOSURE EXCEPTION APPLICATION FORM AND CHECKLIST

Submittal Date: 12/03/2024 New Submittal Re-Submittal No: 1

Related Building Permit No: N/A

Project Name: 12th Avenue South over I40 Bridge Repair (TDOT Project)

Street Name Location: 12th Avenue South over I40

Between: Division Street And: Hawkins Street

Applicant Name: Bell Construction Company, LLC

Address: PO Box 363, Brentwood, TN 37027

Phone: 931.952.8695 Fax: _____ Contact: TJ Cooper

Email: tcooper@bellconstructioncompany.com

Project Description: Repair of bridge on 12th Avenue South over I40. This repair project is per contract with TDOT.

Start Date: 02/13/2024 End Date: 03/23/2024 Project Length: 40 days

Describe Type of Closure: Lanes on 12th Avenue S from Division Street to Hawkins Street will be reduced from 4 lanes to 2 lanes by utilizing concrete barrier rail and restriping

accordingly. 12th Avenue S will be restored back to 4 lanes per original traffic pattern.

Additionally, both bike lanes will be closed and signed to merge with traffic. Sidewalk will be closed on phase construction is taking place with a signed detour accomodating pedestrians.

Provide Reasons why Project cannot be completed without closures and what other

options were considered (attach documents as needed): In order to safely repair bridge, lanes must be reduced to allow for deflection behind barrier rail and demoed bridge deck.

Parapet will be removed and portions of sidewalk replaced making it unsafe for pedestrians

to travel through work zone.

PROJECT INFORMATION CHECKLIST:

Included Not Applicable

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Project Vicinity Map with Project Area shown, street names, property information, existing pavement and striping, gutter and building locations, north arrow, and scale. |
| <input type="checkbox"/> | <input type="checkbox"/> | Planned work hours included. |
| <input type="checkbox"/> | <input type="checkbox"/> | Exact location and dimensions of the construction work zone shown. |
| <input type="checkbox"/> | <input type="checkbox"/> | If multiple phases are necessary, include perimeter impact of each phase, phase number, anticipated work hours and phase duration. |
| <input type="checkbox"/> | <input type="checkbox"/> | Details on construction activity and equipment being used as part of construction included for each phase. |
| <input type="checkbox"/> | <input type="checkbox"/> | Specify if any on-street parking, and/or metered parking, is to be restricted and if bus zone will need to be relocated. |
| <input type="checkbox"/> | <input type="checkbox"/> | Specify if trash pickup will be impacted. |
| <input type="checkbox"/> | <input type="checkbox"/> | Provide information on all utility work and utility connections. |
| <input type="checkbox"/> | <input type="checkbox"/> | List all affected residents, businesses, agencies, and schools and any conversations/agreements taken place. |
| <input type="checkbox"/> | <input type="checkbox"/> | Show ongoing construction projects within vicinity of proposed project impact. |
| <input type="checkbox"/> | <input type="checkbox"/> | Provide plan to address conflicts with other nearby projects. |
| <input type="checkbox"/> | <input type="checkbox"/> | Provide traffic control plan for each phase of construction (see traffic control checklist for more information). |
| <input type="checkbox"/> | <input type="checkbox"/> | Provide information on work vehicle parking locations. |
| <input type="checkbox"/> | <input type="checkbox"/> | Show construction trucks ingress/egress to project location. |
| <input type="checkbox"/> | <input type="checkbox"/> | Provide information on any traffic signals, traffic signal loops, and traffic signal cabinets in close proximity to project. |

PROJECT INFORMATION CHECKLIST

1. Project Vicinity Map with Project Area shown, street names, property information, existing pavement and striping, gutter and building locations, north arrow, and scale.
 - a. See markups attached with this information.
2. Planned work hours included.
 - a. TDOT has allotted 40 consecutive days to reduce traffic lanes on 12th Avenue South. In order to complete work in this allotted time Bell Construction will work day and night to complete bridge repair and restore traffic to original pattern.
3. Exact location and dimensions of the construction work zone shown.
 - a. Work zone in each phase is approximately 280 feet long x 32 feet wide.
4. If multiple phases are necessary, include perimeter impact of each phase, phase number, anticipated work hours and phase duration.
 - a. See perimeter in markups attached.
 - b. Two phases.
 - c. Work hours are same as noted in #2.
 - d. Phase duration is approximately 20 days each phase.
5. Details on construction activity and equipment being used as part of construction included for each phase.
 - a. Construction activity will consist of sawing and jackhammering concrete to demo concrete bridge deck and portion of sidewalk. Demo and erect steel girders. Pouring concrete on new bridge deck, sidewalk, and parapet.
 - b. Construction equipment includes but not limited to: cranes, excavators, skid steers, backhoe, manlifts, pickup trucks, air compressors, jackhammers, and concrete pump truck.
6. Specify if any on-street parking, and/or metered parking, is to be restricted and if bus zone will need to be relocated.
 - a. See markup attached for closed entrances/parking.
 - b. Bus Stop: 12th Ave S & Division St SB (ID: 12ADIVSF) may be impacted.
7. Specify if trash pickup will be impacted.
 - a. N/A
8. Provide information on all utility work and utility connections.
 - a. Existing light pole on bridge will be removed and reinstalled after new concrete parapet is installed.

9. List all affected residents, businesses, agencies, and schools and any conversations/agreements taken place.
 - a. Bell Construction has not had any prior discussion to entities listed above. Since this contract is with TDOT, there may have been prior conversations with these entities during project development.
10. Show ongoing construction projects within vicinity of proposed project impact.
 - a. N/A
11. Provide plan to address conflicts with other nearby projects.
 - a. N/A
12. Provide traffic control plan for each phase of construction (see traffic control checklist for more information).
 - a. See approved TDOT plans attached.
13. Provide information on work vehicle parking locations.
 - a. Bell Construction employee and subcontractor parking will be in median of I40 and/or behind barrier rail in each phase of construction.
14. Show construction trucks ingress/egress to project location.
 - a. Ingress and egress points will be behind barrier rail.
15. Provide information on any traffic signals, traffic signal loops, and traffic signal cabinets in close proximity to project.
 - a. 12th Ave S and Division Street traffic signal is located 200 feet from bridge under repair.

TRAFFIC CONTROL PLAN CHECKLIST:

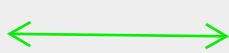
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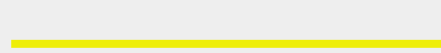
- | | | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | All temporary traffic control plans shall be designed in accordance with the most recent ADA regulations and requirements of the Manual of Uniform Traffic Control Devices. |
| <input type="checkbox"/> | <input type="checkbox"/> | Clearly show the locations of all existing signs (including speed limit) as well as the proposed signs for each construction phase. |
| <input type="checkbox"/> | <input type="checkbox"/> | Show the location of all existing pedestrian paths and pedestrian detour route of each stage of construction. |
| <input type="checkbox"/> | <input type="checkbox"/> | Show dimensions of travel lane width, shoulder width, sidewalk of each phase, and overall roadway width along the length of affected area. |
| <input type="checkbox"/> | <input type="checkbox"/> | Show all existing striping and markings to remain, to be removed, and all proposed striping and markings for each construction stage. |
| <input type="checkbox"/> | <input type="checkbox"/> | Provide detour plan clearly showing detour route for any roadway or pedestrian/bike path closures. |
| <input type="checkbox"/> | <input type="checkbox"/> | Specify placement of all temporary traffic control devices. |
| <input type="checkbox"/> | <input type="checkbox"/> | Specify spacing of all temporary traffic control devices. |
| <input type="checkbox"/> | <input type="checkbox"/> | Show all existing traffic signals and streetlights in the work zone location. |
| <input type="checkbox"/> | <input type="checkbox"/> | Lighting provided for all pedestrian detour routes. |
| <input type="checkbox"/> | <input type="checkbox"/> | Provide minimum eleven (11) foot travel lanes at all times. |
| <input type="checkbox"/> | <input type="checkbox"/> | Show size, height, and location of all channelizing devices, warning lights, flag trees, barriers, etc. |
| <input type="checkbox"/> | <input type="checkbox"/> | Label all taper lengths and widths. |
| <input type="checkbox"/> | <input type="checkbox"/> | Provide locations of police officers for each phase as needed. |
| <input type="checkbox"/> | <input type="checkbox"/> | Temporary Traffic Control Plan has been stamped and signed by a TN licensed Civil Engineer. |

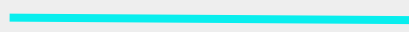
TRAFFIC CONTROL CHECKLIST


1. All temporary traffic control plans shall be designed in accordance with the most recent ADA regulations and requirements of the Manual of Uniform Traffic Control Devices.
 - a. See TDOT approved traffic control plans attached.
2. Clearly show the locations of all existing signs (including speed limit) as well as the proposed signs for each construction phase.
 - a. See TDOT approved traffic control plans for signage.
3. Show the location of all existing pedestrian paths and pedestrian detour route of each stage of construction.
 - a. See TDOT approved traffic control plans and markups attached.
4. Show dimensions of travel lane width, shoulder width, sidewalk of each phase, and overall roadway width along the length of affected area.
 - a. Travel lanes in each phase will be 10 feet
 - b. Shoulder width in each phase will be 2 feet
 - c. Sidewalk width in each phase will be 5 feet
 - d. Overall length of each phase is 32 feet
5. Show all existing striping and markings to remain, to be removed, and all proposed striping and markings for each construction stage.
 - a. See TDOT approved traffic control plans for markings.
6. Provide detour plan clearly showing detour route for any roadway or pedestrian/bike path closures.
 - a. See TDOT approved traffic control plans and markups attached.
7. Specify placement of all temporary traffic control devices.
 - a. See TDOT approved traffic control plans.
8. Specify spacing of all temporary traffic control devices.
 - a. See TDOT approved traffic control plans.
9. Show all existing traffic signals and streetlights in the work zone location.
 - a. See TDOT approved plans.
10. Lighting provided for all pedestrian detour routes.
 - a. Work will be occurring day and night so light plants for nighttime work will provide temporary lighting.
11. Provide minimum eleven (11) foot travel lanes at all times.
 - a. In order to provide adequate deflection behind barrier rail, TDOT approved plans call for 10 foot travel lanes.

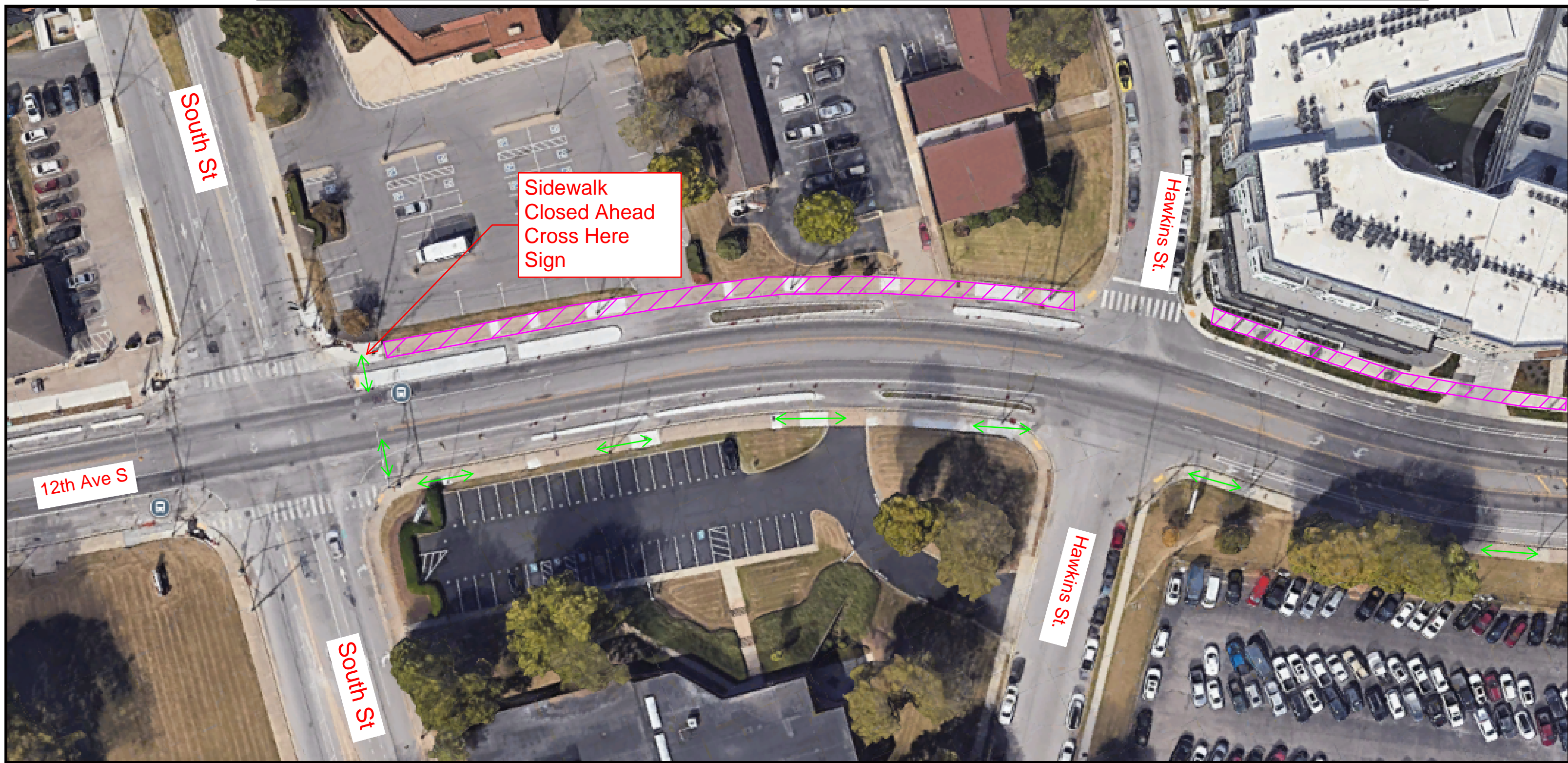
12. Show size, height, and location of all channelizing devices, warning lights, flag trees, barriers, etc.
 - a. Sizes of these items will meet MUTCD and TDOT requirements.
13. Label all taper lengths and widths.
 - a. See TDOT approved traffic control plans.
14. Provide locations of police officers for each phase as needed.
 - a. Officers will be placed at leading taper of each phase.
15. Temporary Traffic Control Plan has been stamped and signed by a TN licensed Civil Engineer.
 - a. See TDOT approved traffic control plans.

Pedestrian Traffic : 

 Parapet Demo : 

Barrier Rail : 

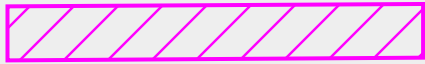
Sidewalk Closure : 

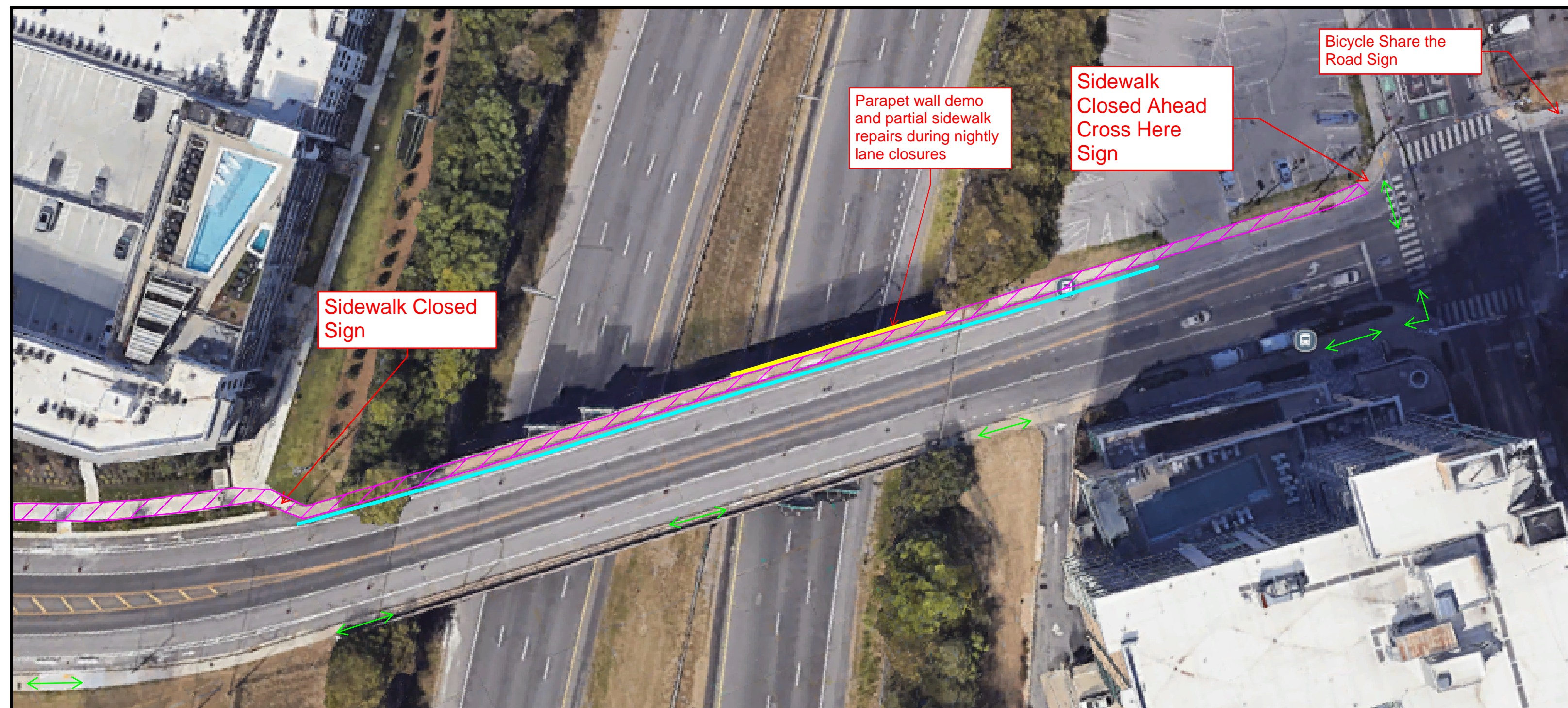


Pedestrian Traffic : 

Parapet Demo : 

Barrier Rail : 

Sidewalk Closure : 



Sidewalk Closed Sign

Parapet wall demo and partial sidewalk repairs during nightly lane closures

Sidewalk Closed Ahead Cross Here Sign

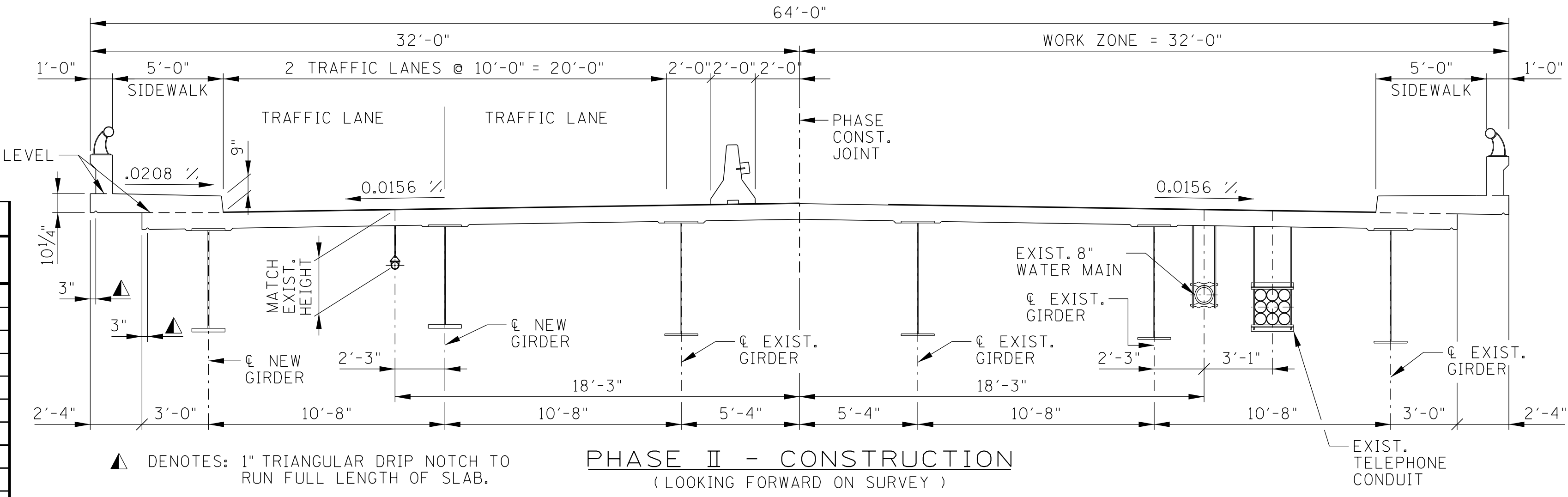
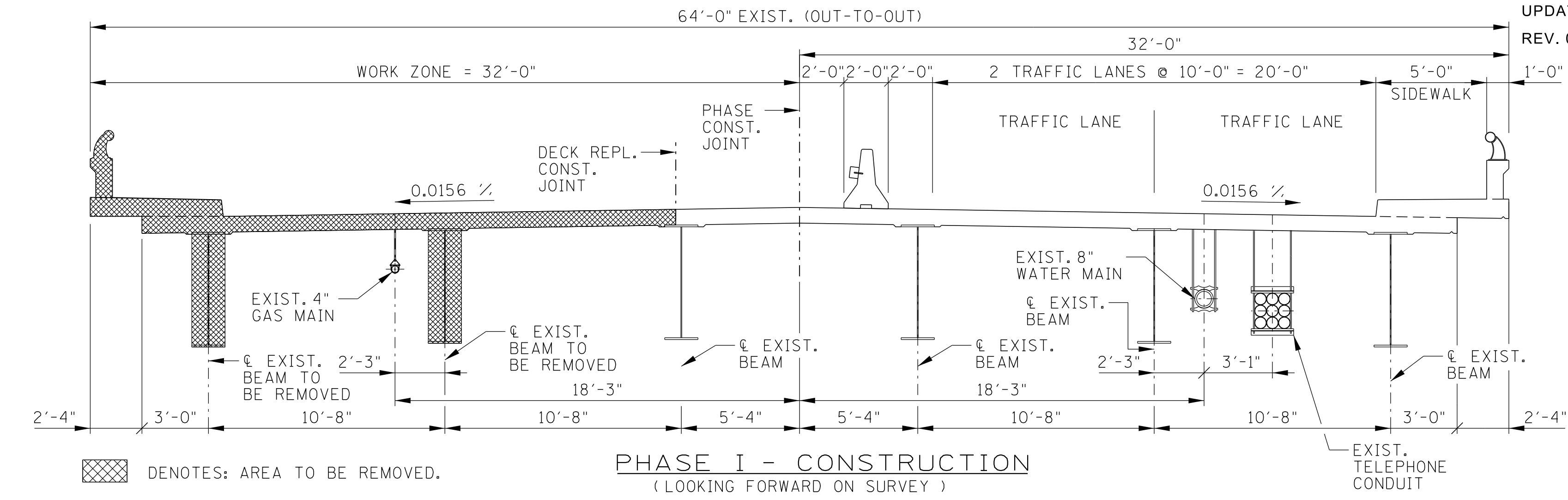
Bicycle Share the Road Sign

TRAFFIC CONTROL SIGN TABULATION

M.U.T.C.D. SIGN NO.	LEGEND	SIZE IN INCHES L X W	S.F.	TOTAL NO. REQUIRED	ITEM NO. 712-06 S.F.
W20-1	ROAD WORK AHEAD	36" X 36"	9	6	54.00
W20-1	ROAD WORK AHEAD	48" X 48"	16	4	64.00
G20-1	END ROAD WORK	36" X 36"	9	6	54.00
W11-1	BICYCLE SYMBOL	30" X 30"	6	2	12.50
W16-1P	SHARE THE ROAD	24" X 18"	3	2	6.00
R9-11R	SIDEWALK CLOSED AHEAD CROSS HERE	24" X 18"	3	2	6.00
R9-11L	SIDEWALK CLOSED AHEAD CROSS HERE	24" X 18"	3	1	3.00
W20-5L	LEFT LANE CLOSED AHEAD	36" X 36"	9	1	9.00
W20-5R	RIGHT LANE CLOSED AHEAD	36" X 36"	9	1	9.00
W9-2L	LANE ENDS MERGE LEFT	36" X 36"	9	1	9.00
W4-2L	LEFT LANE ENDS MERGE SYMBOL	36" X 36"	9	1	9.00
W4-2R	RIGHT LANE ENDS MERGE SYMBOL	36" X 36"	9	1	9.00
R9-9	SIDEWALK CLOSED	24" X 12"	2	2	4.00
W1-4L	SINGLE LANE SHIFT	36" X 36"	9	1	9.00
W1-4R	SINGLE LANE SHIFT	36" X 36"	9	2	18.00
SPEC-1	RIGHT LANE MUST TURN RIGHT	24" X 24"	4	2	8.00
SPEC-2	NO PARKING	24" X 18"	3	2	6.00
W20-1M	ROAD WORK 1 MILE	48" X 48"	16	12	192.00
W20-5L	LEFT LANE CLOSED 1/2 MILE	48" X 48"	16	2	32.00
W20-5L	LEFT LANE CLOSED 1500 FT	48" X 48"	16	2	32.00
W4-2L	LEFT LANE ENDS MERGE SYMBOL	48" X 48"	16	2	32.00
R11-2	ROAD CLOSED	48" X 30"	10	3	30.00
W20-5R	RIGHT LANE CLOSED 1/2 MILE	48" X 48"	16	4	64.00
W20-5R	RIGHT LANE CLOSED 1500 FT	48" X 48"	16	2	32.00
W4-2R	RIGHT LANE ENDS MERGE SYMBOL	48" X 48"	16	2	32.00
M1-1.2	INTERSTATE 40	36" X 36"	9	4	36.00
M3-4	WEST	24" X 12"	2	4	8.00
W21-5R	RIGHT SHOULDER CLOSED	48" X 48"	16	2	32.00
W21-5R	RIGHT SHOULDER CLOSED 1500 FT	48" X 48"	16	3	48.00
TOTAL				860	

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2024	19103-4101-04	T2

REV. 04/23/2024: SHEET BLOCK TYPE UPDATED TO PS&E.
REV. 06/13/2024: UPDATED ITEM 713-16.01



PHASING NOTES:

PHASE I: PHASE I IS NECESSARY FOR 12TH AVENUE TRAFFIC CONTROL IN ORDER TO REMOVE AND REPLACE THE PORTIONS OF BRIDGE DECK, GIRDERS, AND ASPHALT ACCORDING TO THE LIMITS IN THE REPAIR PLANS.

PHASE II: PHASE II IS NECESSARY FOR 12TH AVENUE TRAFFIC CONTROL IN ORDER TO REPLACE THE JOINT SEAL

PHASE III: PHASE III IS NECESSARY FOR INTERSTATE 40 WB TRAFFIC CONTROL IN ORDER TO REMOVE AND REPLACE THE PORTIONS OF BRIDGE DECK, GIRDERS, AND ASPHALT ACCORDING TO THE LIMITS IN THE REPAIR PLANS AND AS DESIGNATED BY THE FIELD ENGINEER.

PHASE IV: CLOSURE OF THE OUTSIDE I-40 SHOULDERS TO ESTABLISH WORKZONES AT 12TH AVENUE SOUTH ABUTMENTS FOR REPAIRS AND WORK ON THE BEARINGS IF NECESSARY.

GENERAL: THE ORDER AND SEQUENCE OF THE TRAFFIC PHASING IS NOT REQUIRED TO FOLLOW THE ORDER ABOVE AND IS TO BE DETERMINED BY THE ENGINEER.

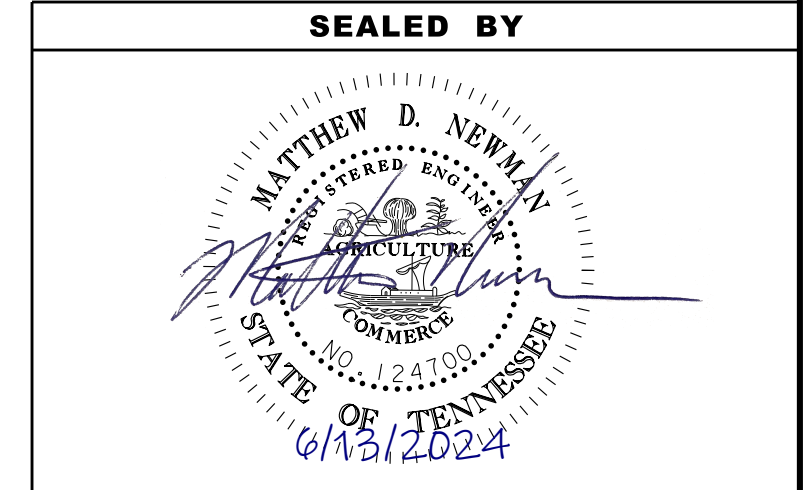
ALL PHASING QUANTITIES FOR I-40 CLOSURES ASSUME 3 SEPARATE APPLICATIONS FOR THE NECESSARY SETUP AND TAKE DOWN FOR NIGHT TIME CLOSURES.

TRAFFIC CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
712-01	TRAFFIC CONTROL	LS	0.5
(1) 712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	L.F.	620
(2) 712-02.12	PORTABLE BARRIER RAIL, REDUCED DEFLECTION (MASH TL-3)	L.F.	315
712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TI-3)	EACH	3
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	235
712-04.50	BARRIER RAIL DELINEATOR	EACH	75
712-05.01	WARNING LIGHT (TYPE A)	EACH	4
712-06	SIGNS (CONSTRUCTION)	S.F.	860
712-07.02	TEMPORARY BARRICADES (TYPE II)	L.F.	20
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	85
712-08.03	ARROW BOARD (TYPE C)	EACH	6
(3)(6) 712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	8780
(4) 712-09.08	REMOVABLE PAVEMENT MARKING (6" LINE)	L.F.	5710
(5)(6) 712-09.30	REMOVABLE BLACK-OUT TAPE (6")	L.F.	6311
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	14
717-01	MOBILIZATION	LS	0.5

FOOTNOTES:

- ITEM NO. IS FOR BARRIER RAIL TAPER LENGTH OUTSIDE OF 'WORK ZONE' AS LABELED ON THE TRAFFIC CONTROL SHEETS.
- ITEM NO. IS FOR BARRIER RAIL WITH STIFFENER TUBE LENGTH INSIDE OF 'WORK ZONE' AS LABELED ON THE TRAFFIC CONTROL SHEETS T3 & T4.
- REMOVABLE PAVEMENT MARKINGS SHALL BE USED FOR STRIPING THE TRAFFIC CONTROL EDGE LINE MARKINGS AS SHOWN ON SHEET NO. T6
- REMOVABLE PAVEMENT MARKINGS SHALL BE USED FOR STRIPING THE TRAFFIC CONTROL LANE SHIFTS AND EDGE LINE MARKINGS AS SHOWN ON SHEET NO. T3 & T4.
- REMOVABLE BLACKOUT TAPE SHALL BE USED TO COVER EXISTING PAVEMENT MARKINGS PRIOR TO OPENING THE LANE CLOSURES/ LANE SHIFTS AS NECESSARY.
- ASSUMES 1 APPLICATION FOR PHASE I, II, & IV AND 3 APPLICATIONS FOR MULTIPLE NIGHT CLOSURES USING PHASE III.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

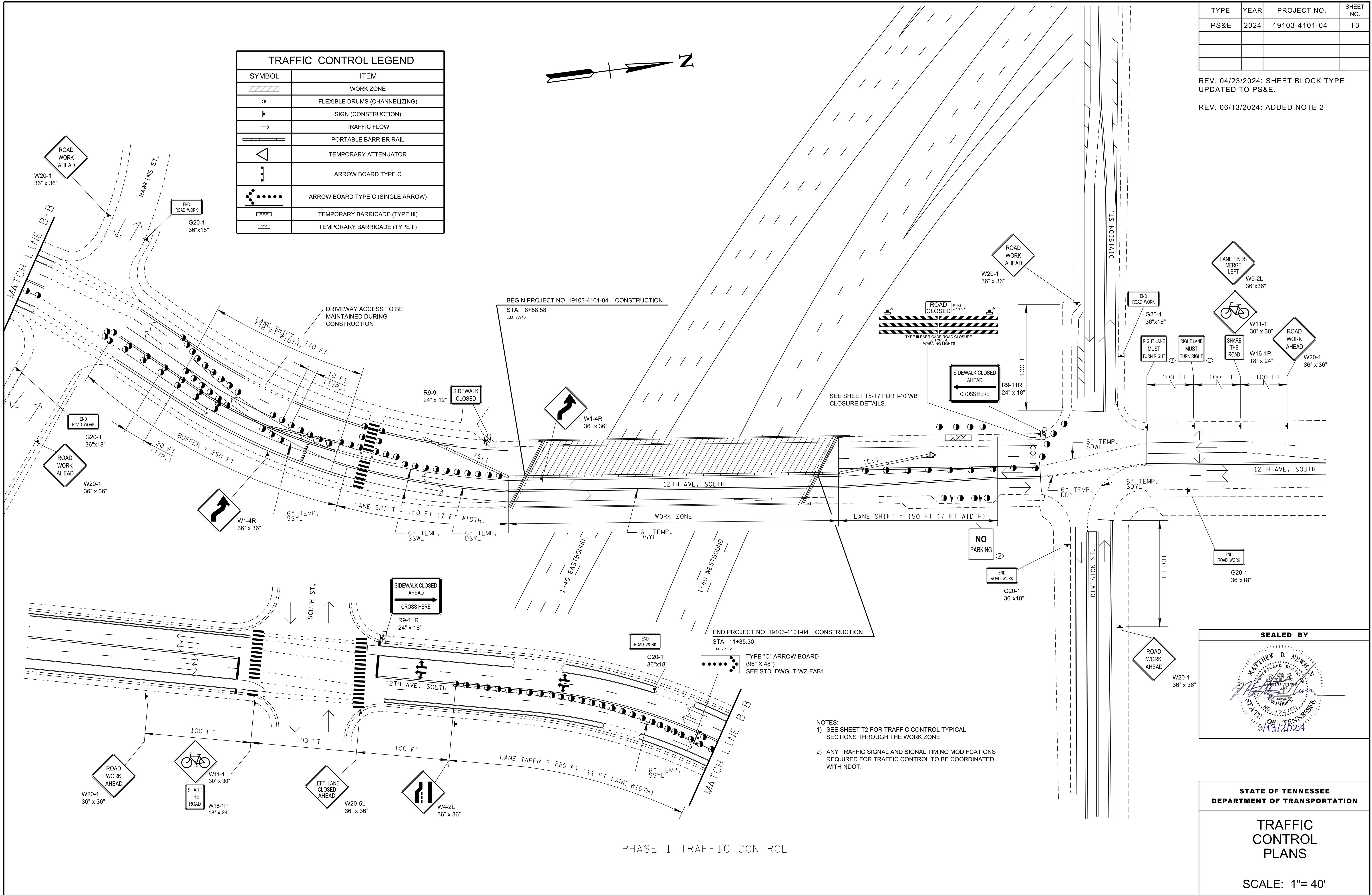
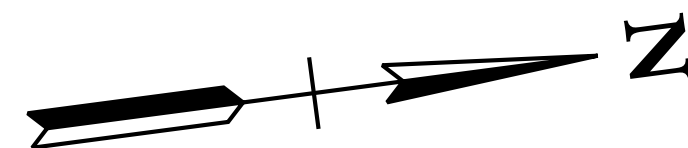
SCALE: N.T.S.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2024	19103-4101-04	T3

REV. 04/23/2024: SHEET BLOCK TYPE UPDATED TO PS&E.

REV. 06/13/2024: ADDED NOTE 2

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	TEMPORARY ATTENUATOR
	ARROW BOARD TYPE C
	ARROW BOARD TYPE C (SINGLE ARROW)
	TEMPORARY BARRICADE (TYPE III)
	TEMPORARY BARRICADE (TYPE II)



- NOTES:
- SEE SHEET T2 FOR TRAFFIC CONTROL TYPICAL SECTIONS THROUGH THE WORK ZONE
 - ANY TRAFFIC SIGNAL AND SIGNAL TIMING MODIFICATIONS REQUIRED FOR TRAFFIC CONTROL TO BE COORDINATED WITH NDOT.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

SCALE: 1"= 40'

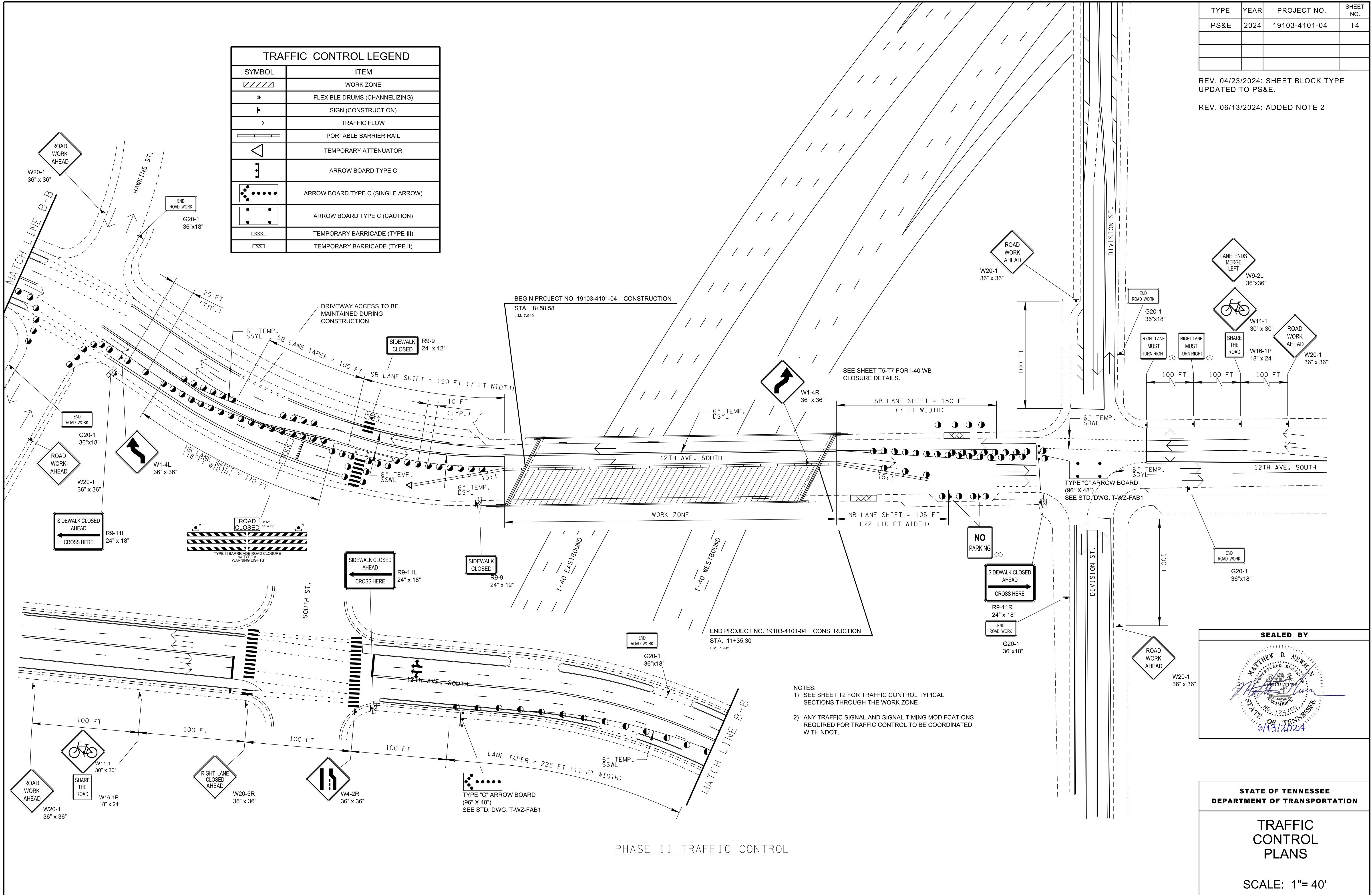
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2024	19103-4101-04	T4

REV. 04/23/2024: SHEET BLOCK TYPE UPDATED TO PS&E.

REV. 06/13/2024: ADDED NOTE 2

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	TEMPORARY ATTENUATOR
	ARROW BOARD TYPE C
	ARROW BOARD TYPE C (SINGLE ARROW)
	ARROW BOARD TYPE C (CAUTION)
	TEMPORARY BARRICADE (TYPE III)
	TEMPORARY BARRICADE (TYPE II)



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 MATTHEW D. NEWMAN
 REGISTERED ENGINEER
 AGRICULTURE
 STATE OF TENNESSEE
 LICENSE NO. 22100
 01/31/2024

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 TRAFFIC CONTROL PLANS
 SCALE: 1"= 40'

PHASE II TRAFFIC CONTROL

CNY 174 - PHASE 1



LEGEND

PEDESTRIAN DETOUR



TRAFFIC FLOW



ROADWAY STRIPING



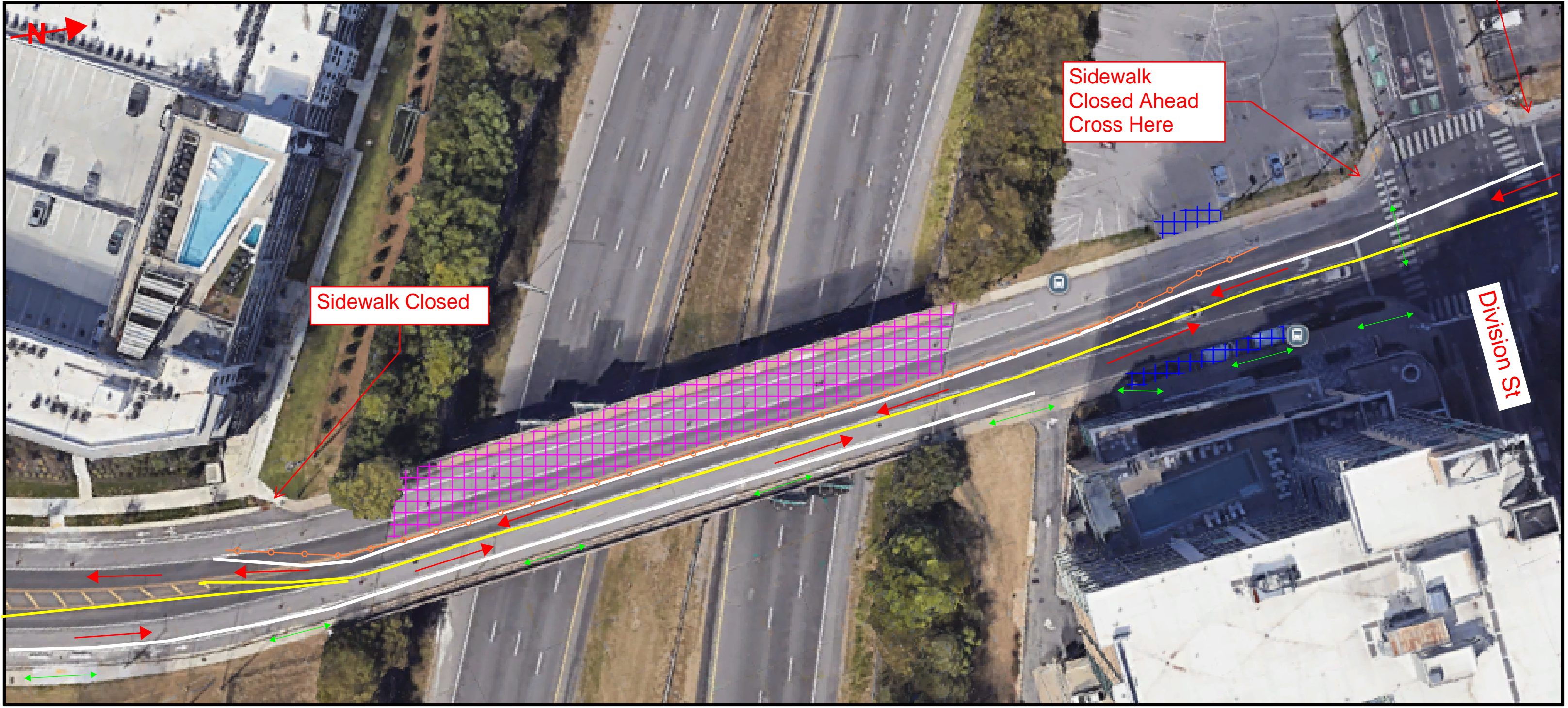
CNY 174 - PHASE 1

Bicycle Share the Road Sign

Sidewalk Closed Ahead Cross Here

Sidewalk Closed

Division St



LEGEND

PEDESTRIAN DETOUR



TRAFFIC FLOW



WORK ZONE



CLOSED ENTRANCE/PARKING



ROADWAY STRIPING



BARRIER RAIL



(280 ft long x 32 ft wide)

CNY 174 - PHASE 2



LEGEND

PEDESTRIAN DETOUR



TRAFFIC FLOW



ROADWAY STRIPING



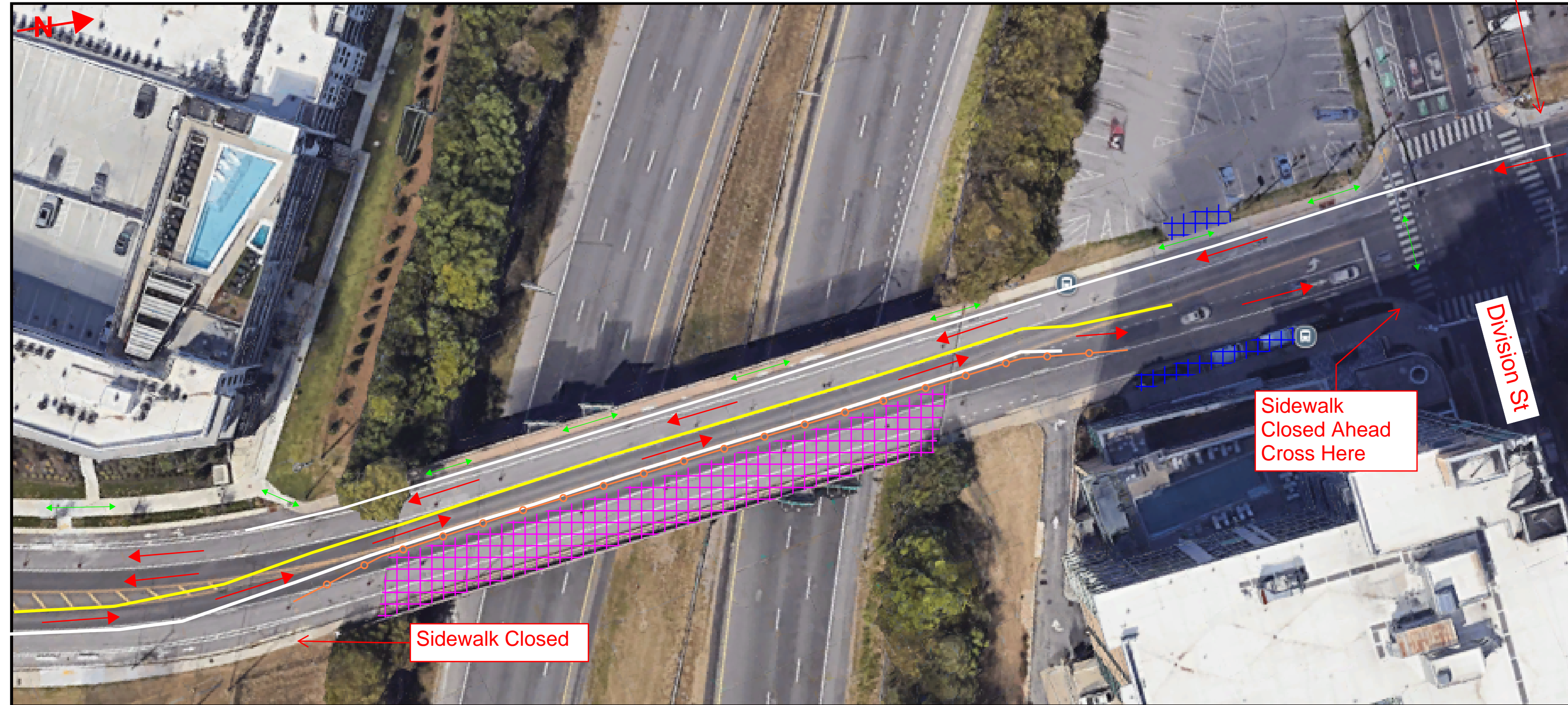
CNY 174 - PHASE 2

Bicycle Share the Road Sign

Sidewalk Closed Ahead Cross Here

Sidewalk Closed

Division St



LEGEND

PEDESTRIAN DETOUR



TRAFFIC FLOW



WORK ZONE



ROADWAY STRIPING



BARRIER RAIL



(280 ft long x 32 ft wide)