TMP DOCUMENTATION AND REQUEST FOR APPROVAL

We are requesting approval of the Transportation Management Plan (TMP) for the project detailed below. This project is categorized as TMP type 2. Impacts resulting from project activities meet the current work zone policies of the Wisconsin Department of Transportation.

TMP/Project Type	Action
A. Project that requires a DSR and is TMP Type 1, 2 or 3.	Complete and submit this document and any attachments to BPD project services liaison.
B. Project that requires a DSR and is TMP Type 4.	Complete this document as the TMP Executive Summary and submit along with separate TMP report to BPD project services liaison.
C. Project does not require DSR and is TMP Type 1, 2 or 3.	Complete and submit this document and any attachments to BPD project services liaison.
For Federal Oversight projects, coordinate early in TMP development with BPD & FHWA project liaisons.	

1. Project Information

Design ID:	1146-75-00	PS&E Date:	February 1, 2021 through May 1, 2024
Project Title:	STH 76 – New London	Let Date:	May 2021 through November 2024
Project Limits:	Lily of the Valley Drive – USH 45	Project Length	10.5 Miles
Highway:	STH 15	Project Duration	1150 Days
		3 Year(s)	2 Month(s)
County:	Outagamie	AADT	9,800 - 16,400 AADT (2019)

Project type (recst., recondition, SHRM, etc.): Reconstruction/Expansion
Engineer's Estimate: ☐ < $1 Million ☐ $1M-3M ☐ $3M-10M ☒ >$10M
Is the project a National Highway System (NHS) route? ☒ Yes ☐ No
Is the project Federal Oversight? ☒ Yes ☐ No
OSOW Route? ☐ Yes ☒ No

2. Brief description of work activities:

The proposed improvement consists of the reconstruction and expansion of approximately 10.5 miles of STH 15 from USH 45 in the City of New London to Lily of the Valley Drive in the Town of Greenville in Outagamie County (see Attachment 1 – Project Location Map). The project will expand STH 15 to a 4-lane divided highway, including a bypass of the Village of Hortonville. Roundabouts are proposed on both ends of the bypass at the STH 15 intersections with CTH T/Givens Road and CTH JJ/Manley Road, separating the project into three segments (see Attachment 2 – Project Overview):

- Western Section (USH 45 – CTH T/Givens Road) (ID 1146-75-73)
- Bypass Section (CTH T/Givens Road – CTH JJ/Manley Road) (IDs 1146-75-71, 76, & 77)
- Eastern Section (CTH JJ – Lily of the Valley Drive) (ID 1146-75-72)

Western Section (USH 45 – CTH T/Givens Road)
This 3.5-mile segment will include four at-grade intersections (not including the roundabout at CTH T/ Givens Road). Minor realignment of two side roads is required to improve the intersection angle. Construction will be included along USH 45 to add a left turn lane for USH 45 SB. The vast majority of existing business and residential driveways along this section of STH 15 will remain.

Bypass Section (CTH T/Givens Road – CTH JJ/Manley Road)
This 3.7-mile segment will include the roundabout at CTH T/Givens Road but will not include the roundabout at CTH JJ/Manley Road. Bridges will be constructed for STH 15 to overpass the Wisconsin Central LTD railroad, Black Otter Creek, CTH M and Nash Street. CTH MM will be re-located on new alignment intersecting with CTH M on the east side of the existing Lone Hickory Lane T-intersection. A limited number of restricted entrances to agricultural land will be provided but there will not be connections to any local intersecting roads in-between the roundabouts.

East Section (CTH JJ – Lily of the Valley Drive)
This 3.3-mile segment will include six at-grade intersections (including the roundabout at CTH JJ/Manley Road). Minor realignment of three side roads is required to improve the intersection angle. An at-grade crossing with the Wisconsin Central LTD railroad is planned. A multi-use trail is planned along the south side of STH 15 between Greendale Road (eastern edge of Hortonville) and Julius Drive (Town of Greenville). The vast majority of existing business and residential driveways along the section of STH 15 will remain.

3. Briefly describe the staging planned for maintaining traffic:

The overall project is divided into five separate construction contracts/lettings scheduled over a 3-year time period. The five construction contracts and their overall current estimated durations are summarized below by section of the project in the following order, Bypass, East, and West:

Project I.D. – 1146-75-71 Bypass Section (WI Central RR – CTH JJ)
(Grading, Base and Structures)
PS&E – February 1, 2021
Letting – May 11, 2021
Approximate Duration – July 2021 – November 2022

Project I.D. – 1146-75-76 Bypass Section (CTH T – WI Central RR)
PS&E – August 1, 2022
Letting – November 8, 2022
Approximate Duration – April 2023 to October 2023

Project I.D. – 1146-75-77 Bypass Section (WI Central RR – CTH JJ) – Tied to 1146-75-76
(Paving)
PS&E – August 1, 2022
Letting – November 8, 2022
Approximate Duration – July 2023 to October 2023

Project I.D. – 1146-75-72 East Section (WI Central RR – Lily of the Valley Drive)
PS&E – August 1, 2021
Letting – November 9, 2021
Approximate Duration – April 2022 to October 2023

Project I.D. – 1146-75-73 West Section (USH 45 – CTH T)
PS&E – August 1, 2023
Letting – November 14, 2023
Approximate Duration – March 2024 to November 2024

For the Bypass Section (around north side of Hortonville) STH 15 will remain open to traffic for the vast majority of construction. A 2 month full closure of STH 15 is planned for the Bypass Section under Project I.D. 1146-75-76, to make the road connection from existing STH 15 to the new STH 15 bypass west of Hortonville. STH 15 will be detoured during this closure. The detour route will be USH 45 – USH 10 – IH 41.

For the East Section (east of Hortonville) STH 15 will remain open to through traffic (one lane in each direction) for the vast majority of construction. A 1 month full closure of STH 15 is planned for the East Section, to adjust the Wisconsin Central Limited railroad profile at the STH 15 at-grade crossing. STH 15 traffic will be detoured during this closure. The 15/JJ RAB project will not be started prior to the 1 month full closure or the nightly full closures for culverts are completed. The detour route will be STH 76 – CTH JJ. Single lane (one direction) closures of STH 15 using flaggers will be allowed during daytime working hours. Night time closures will be allowed to install 4 culverts along STH 15. Traffic will follow the detour described above during the night time closures. Allowable night time closures will be as follows:
Monday-Thursday 7pm-6am
Friday 7pm-Saturday 9am
Saturday 5pm-Sunday 10am
Sunday 4pm-Monday 6am
The existing path crossing at Lily of the Valley Drive and STH 15 will be maintained during construction.

For the West Section (west of Hortonville) a long term (7 to 8 months) full closure of STH 15 is planned under Project I.D. 1146-75-73. STH 15 traffic will be detoured during this closure. The detour route will be CTH T – CTH TT – USH 45. USH 45 north of STH 15 will have a 1 month full closure to replace the at-grade railroad crossing. USH 45 traffic will be detoured during this closure. The detour route will be USH 45 to Bus 45 (Mill St) to West Wolf River Ave to Bus 45 (N. Pearl St) to Hwy 54 to USH 45.

A summary of the construction staging and maintenance of traffic for each construction contract is included below. The projects are listed for the three Bypass Section projects first, followed by the East Section project, and the West Section Project.

<u>Project I.D. – 1146-75-71 Bypass Section (WI Central RR – CTH JJ) (Grading, Base and Structures)</u>
Construction will begin in July 2021 and continue through November 2022. The majority of the construction does not conflict with any existing roadways and will be completed in Stage 1. Construction will be done along CTH M, CTH MM, and Nash Street and will be completed over two stages. (See Attachment 5 – 1146-75-71 Project Staging Plans)

Stage 1 (+/- 1 year)

- Maintenance of Traffic:
  - STH 15 traffic remains on the existing roadway (through Hortonville)
  - All side roads remain open to traffic with only short-term lane closures on CTH M and Nash Street for bridge construction activities
- Construction Activities:
  - Construct all off existing roadway sections of work including
    - STH 15 EB and WB (Sta. 275+00 to 465+00)
      - Gap between 378+00 and 379+00 to maintain CTH MM traffic access
  - Construction along existing side roads
    - CTH MM (Sta. 11+00 to 20+50)
    - Construct asphalt surface sidewalk to maintain pedestrian access on Nash St.
    - Remove and replace storm sewer on CTH M
    - Construct storm sewer on Nash St.
    - Construct bridges and walls at CTH M and Nash St.

Stage 2 (+/- 2 months)

- Maintenance of Traffic:
    - STH 15 traffic remains on existing roadway (through Hortonville)
    - CTH MM closed (+/- 1 month)
    - Short term single lane closures with flaggers on CTH M to construct CTH MM intersection
    - Nash Street shall not be closed during the time CTH MM is closed.
    - All other side roads remain open

- Construction Activities:
    - Construct connections from existing CTH MM to relocated CTH MM and from CTH M to relocated CTH MM
    - Construct N. Crest St. cul-de-sac
    - Construct STH 15 gap between 378+00 and 379+00

<u>Project I.D. – 1146-75-76/77 Bypass Section (CTH T – CTH JJ)</u>

Construction will begin in April of 2023 and continue through October of 2023. The Majority of the construction is along the new bypass and does not conflict with any existing roadways and will completed in Stage 1. Construction along Old STH 15 West and the temporary connection to the STH 15 West Section will be constructed in Stage 2 and STH 15 will be closed to traffic and detoured. The detour route will be USH 45 – USH 10 – IH 41, See Attachments 4 & 5. Traffic will not be placed on the new bypass until November of 2023 in conjunction with the completion of I.D. 1146-75-72 on the East Section.

Stage 1 (+/- 4 months)

- Maintenance of Traffic:
    - STH 15 traffic remains on the existing roadway
    - All side roads remain open to traffic
- Construction Activities:
    - Construct STH 15 EB and WB from Sta. 256+00 to 275+00
    - Construct box culvert C-44-124 and temporary channel
    - Construct OLD STH 15 from Sta. 50+00 to 52+85

Stage 2 (+/- 2 months)

- Maintenance of Traffic:
    - STH 15 is closed and moved to the detour
    - Givens Road East and West closed to through traffic for 1 month
- Construction Activities:
    - Construct connection from roundabout to Old STH 15 West and temporary connection between the newly constructed STH 15 Bypass Section and the West Section of STH 15
    - Construct Box Culvert C-44-126 and permanent channel
    - Construct Givens Road East and West intersections with Old STH 15
    - Obliterate remaining portion of existing STH 15

Project I.D. – 1146-75-72 East Section (CTH JJ – Lily of the Valley Drive)

Construction will begin in April 2022 and continue through November of 2023. Construction will be completed in two stages as described below (See Attachment 6 – 1146-75-72 Project Staging Plans):

Stage 1A (+/- 8 weeks)

- Maintenance of Traffic:
  - Traffic remains on existing STH 15.
  - Off peak short term lane closures may be required to build temporary pavement.
- Construction Activities:
  - Temporary Widening on STH 15 westbound from Julius Drive to Hyacinth Lane.
  - Temporary crossover in the median east of Lily of the Valley Drive.
  - Early grading of STH 15.

Stage 1B (+/- 5 months)

- Maintenance of Traffic:
  - Traffic remains on existing STH 15 and shifts to the temporary widening east of Julius Drive.
  - Alternate short-term closures to North Road (south) and Julius Road (south).
  - Hillview Road access to STH 15 permanently closed.
  - Manley Road access to STH 15 closed to north.
  - 4 night time closures. Traffic will be detoured following STH 76 – CTH JJ. Closures will be allowed during times described earlier in document.
  - Pedestrian crossing at Lily of the Valley Drive and STH 15 will be maintained during construction.
- Construction Activities:
  - Construct portion of old STH 15 east from Sta 269'MNE'+00 to Sta 298'MNE'+00.
  - Construct STH 15 westbound from Sta 492'WB'+00 to Sta 514'WB'+00 and from Sta 516'WB'+00to Sta 522'WB'+00 with gap at railroad.
  - Construct STH 15 eastbound from Sta 525'EB'+00 to Sta 653'EB'+00
  - Construct North road south of STH 15.
  - Construct Julius drive south of STH 15.
  - Construct Hillview road cul-de-sac
  - Construct temporary connection of Manley road (north) to STH 15 EB lanes.
  - Construct temporary widening along old STH 15 east from Greendale road to local road ('TA').
  - Construct temporary roundabout bypasses ('TA' and 'TB').
  - Construct south portion of C-44-0125 and C-44-0128.
  - Construct cross culverts.

Stage 1C (+/- 1 months)

- Maintenance of Traffic:
  - STH 15 closed from CTH JJ to North road. Detour will be in place. Detour will follow STH 76 – CTH JJ.
  - Prior to winter shutdown, traffic will be shifted to newly constructed STH 15 lanes, 1 lane in each direction, and utilize the temporary connection ('XO') at Sta 525'EB'+00. In addition, an interim temporary connection ('TC') can be utilized at Sta 485'EB'+00 to connect to existing STH 15.
  - Manley Road access to STH 15 will be closed to the north and south during winter shutdown.
- Construction Activities:
  - Construct STH 15 approaches at railroad crossing.
  - Construct STH 15 crossover ('XO').
  - Construct temporary roundabout bypass connection ('TA' & 'TB') to STH 15 eastbound.

Stage 2A (+/- 9 months, including winter shutdown)

- Maintenance of Traffic:
  - STH 15 traffic will remain in the winter shutdown configuration except at the west end.
  - Traffic will be shifted onto old STH 15 east and then to temporary roundabout bypass 'TA'.
  - Manley Road access to STH 15 remains closed to north and south.
  - Consecutive sideroads are not to be fully closed at the same time. Any sideroad without alternative access is to be constructed in halves.
- Construction Activities:
  - During construction shutdown for the winter of 2021-2022 construction activities may continue items of work away from travel lanes that are not prohibited by winter weather and do not in any way hamper the free flow of traffic.
  - Construct STH 15 eastbound from Sta 465'EB'+00 to Sta 486'EB'+00 and Sta 490'EB'+00 to Sta 522'EB'+00.
  - Construct STH 15 westbound from Sta 465'WB'+00 to Sta 488'WB'+00.
  - Construct STH 15 westbound from Sta 526'WB'+00 to Sta 653'WB'+00.
  - Construct Manley road south of STH 15.
  - Construct local road.
  - Construct STH 15/CTH JJ roundabout.
  - Construct CTH JJ.
  - Construct north road north of STH 15.
  - Construct Bennett circle.
  - Construct Julius drive north of STH 15.
  - Construct old STH 15 east from Sta 258'MNE'+60 to Sta 268'MNE'+00.

Stage 2B (+/- 1 month)

- Maintenance of Traffic:
  - STH 15 traffic will be 1 lane each direction on new old STH 15 east, the temporary roundabout bypass and the completed lanes of eastbound STH 15.
  - Manley Road access to STH 15 remains closed to the north and south.
- Construction Activities:
  - Construct STH 15 eastbound from STA 487'EB'+00 to STA 489'EB'+00.
  - Construct STH 15 westbound from STA 489'WB'+00 to 491'WB'+00.
  - Construct median from STA 519'EB'+00 to STA 527'EB'+00.
  - Construct STH 15 westbound from STA 522'WB'+00 to STA 529'WB'+25.
  - Remove temporary crossover and temporary roundabout bypass 'TA'.
  - Remove temporary widening at 'TA'.

Stage 2C (+/- 1 month)

- Maintenance of Traffic:
  - STH 15 and local roads open to traffic.
- Construction Activities:
  - Construct overlay on CTH JJ.
  - Construct cul-de-sac on Manley Road (north).
  - Construct Multi-Use Path from Greendale Road to Manley Road.
  - Reconstruct Median Island east of Lily of the Valley drive.

Project I.D. – 1146-75-73 West Section (USH 45 – CTH T/Givens Road)
Construction will begin in March of 2024 and continue through November of 2024. STH 15 will be closed to traffic and detoured throughout construction. The detour route will be CTH T – CTH TT – USH 45. USH 45 north of STH 15 will be closed for 1 month to replace the existing at-grade railroad crossing. Work at the railroad crossing will need to be coordinated with the Wisconsin Central Limited Railroad. The USH 45 detour route will be USH 45 to Bus 45 (Mill St) to West Wolf River Ave to Bus 45 (N. Pearl St) to Hwy 54 to USH 45. See Attachment 3.

4. Will there be restrictions on pedestrian/bicycle access?

Yes - There is existing sidewalk/multi-use trail in two locations on the project. 1) Along the east side of Nash Street there is a 5-ft wide sidewalk 2) Along the east side of the Lily of the Valley intersection there is a 10-ft wide multi-use trail that crosses STH 15.

If Yes:

a) Will sidewalk/multiuse path be closed? ☒ Yes ☐ No
b) Describe how pedestrian and bicyclists will be accommodated (e.g., temporary paths, surface material, separation and protection from construction activities and drop-offs, etc.)

The existing sidewalk along Nash Street will be temporarily relocated to the west side of Nash Street during bridge construction activities on the east side of Nash Street. The temporary asphaltic sidewalk is detailed in the Staging Plans for I.D. 1146-75-71.

Shared Use Path along Lily of the Valley Drive will be open at STH 15 during construction.

c) Will crosswalks be provided? ☒ Yes ☐ No
What is the spacing of crosswalks (measured in blocks or feet)? Consideration should be made for adequate spacing (measured in blocks or feet)

No crosswalks are impacted on Nash Street. The existing crosswalk at Lily of the Valley Drive and STH 15 will be maintained during construction. Construction plan references SDDs for markings and crosswalk layouts are included in construction plans. The existing crosswalk for the multi-use trail east of Lily of the Valley (STH 15 & Hyacinth Lane) will not be impacted by the project. A new crosswalk will be added across Julius Drive to connect the new trail on the west side of Julius Drive to the existing trail on the east side of Julius Drive.

d) Describe how the strategies are in compliance with ADA?

No physical changes to the existing sidewalk and trail are proposed with the project. A new section of multi-use trail will be constructed as part of the East Section from Greendale Road to Julius Drive connecting with an existing trail on the east side Julius Drive.

5. Briefly describe how access to traffic generators, businesses, school buses, garbage trucks, and postal services will be mitigated (alternate routes, etc.):

For the East and Bypass Sections STH 15 will remain open to traffic except for the following closures:

- Work at the railroad east of Hortonville under I.D. 1146-75-72.
- West of Hortonville under I.D. 1146-75-76 to connect the new STH 15 bypass to existing STH 15.

Length of closures and detour routes described in section 3 of document. Access to all properties along STH 15 will be provided during closures.

STH 15 will be closed and detoured west of Hortonville for an entire construction season under I.D. 1146-75-73.
Extensive coordination will be provided to inform the public when the full closure/detours will be in effect. Length of closures and detour routes described in section 3 of document. Access to the properties along STH 15 during the closures will still be provided.

6. Will the project have lane closures? ☒ Yes ☐ No
If Yes:
a. Are there restrictions on when lane closures are allowed? ☐ Yes ☒ No
b. What hours/days are lane closures permitted? Anytime during working hours
c. How were traffic counts used in determining permitted lane closure times? (For multi-lane road, indicate typical peak hour volume per direction of travel. For two-lane, two-way road indicate AADT) 9,400 - 16,800 AADT (2019) – The NER Traffic Section determined single lane closures that will reduce STH 15 to one lane for both directions using flaggers will be allowed for short durations (hours) during daytime hours.

7. Please provide the following:
a. Minimum lane width to be maintained. 12-ft. There is one exception to the 12' lane width. Within 1146-75-72, during Stage 1A, the lanes will be 11-ft from Julius Drive to Lily of The Valley Drive.
b. Minimum height (if less than typically available) N/A
c. Available roadway width (lanes + shoulder) minimum 12-ft lane, 3-ft shoulder (except as noted). Temporary barrier will be needed for up to ½ mile lengths within 1146-75-72 during Stages 1B and 2A. This will restrict the shoulder width to 1-ft in these areas.
d. Total number of lanes maintained 1-lane in each direction except for short term (hours) lane closures using flaggers during day time hours

8. Will the project be detoured? ☒ Yes ☐ No
If yes:
a. Explain length of detour, travel times, improvements required for signal timing, surface and shoulder conditions, capacity, etc.:

There will be four different detours for this project, three for STH 15 and one for USH 45.

Bypass Section (I.D. 1146-75-76) – There will be a 2 month detour of STH 15 for the reconstruction of Old STH 15 and the temporary connection of the new STH 15 Bypass to existing STH 15: IH 41 to USH 10 to USH 45. Detour route involves an additional 14 miles but the difference in travel time is limited to 7 minutes since the detour follows a freeway system.

East Section (I.D. 1146-75-72) - There will be a 1 month detour of STH 15 for the reconstruction of the at-grade railroad crossing: STH 15 to STH 76 to CTH JJ to STH 15. This detour will also be utilized for the nighttime closures for culvert installations referenced in Section 3. Detour route involves an additional 1.4 miles and difference in travel time should be less than 5 minutes.

West Section (I.D. 1146-75-73) – There will be an 8 month detour of STH 15: STH 15 to CTH T to CTH TT to USH 45 to STH 15. In addition, there will be a 1 month detour of USH 45 for the replacement of the at-grade railroad crossing: USH 45 to Bus 45 (Mill St) to West Wolf River Ave to Bus 45 (N. Pearl St) to Hwy 54 to Hwy 45. Detour route for STH 15 involves an additional 4.5 miles and difference in travel time is roughly 5 minutes. Detour route for USH 45 involves an additional 0.6 miles and difference in travel time is roughly 5 minutes.

b. Are there width and height restrictions on the detour? ☐ Yes ☒ No

9. List major special events and holidays, and how traffic disruptions will be minimized:

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying STH 15 or USH 45 traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday periods:

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- From noon Friday, 09/03/2021 to 6:00 AM Tuesday, 09/07/2021 for Labor Day;
- From noon Friday, 11/19/2021 to 6:00 AM Monday, 11/29/2021 for Thanksgiving;
- From noon Friday, 12/24/2021 to 6:00 AM Monday, 01/02/2022 for Christmas;
- From noon Friday, 04/15/2022 to 6:00 AM Monday, 04/18/2022 for Easter;
- From noon Friday, 05/27/2022 to 6:00 AM Tuesday, 05/31/2022 for Memorial Day;
- From noon Friday, 07/01/2022 to 6:00 AM Tuesday, 07/05/2022 for Independence Day;
- From noon Friday, 09/02/2022 to 6:00 AM Tuesday, 09/06/2022 for Labor Day;

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- From noon Friday, 04/15/2022 to 6:00 AM Monday, 04/18/2022 for Easter;
- From noon Friday, 05/27/2022 to 6:00 AM Tuesday, 05/31/2022 for Memorial Day;
- From noon Friday, 07/01/2022 to 6:00 AM Tuesday, 07/05/2022 for Independence Day;
- From noon Friday, 09/02/2022 to 6:00 AM Tuesday, 09/06/2022 for Labor Day;
- From noon Friday, 11/18/2022 to 6:00 AM Monday, 11/27/2022 for Thanksgiving;
- From noon Friday, 12/23/2022 to 6:00 AM Monday, 01/02/2023 for Christmas;
- From noon Friday, 04/07/2023 to 6:00 AM Monday, 04/10/2023 for Easter;
- From noon Friday, 05/26/2023 to 6:00 AM Tuesday, 05/29/2023 for Memorial Day;
- From noon Friday, 06/30/2023 to 6:00 AM Wednesday, 07/05/2023 for Independence Day;
- From noon Friday, 09/01/2023 to 6:00 AM Tuesday, 09/05/2023 for Labor Day.

The detour along the East Section will not occur over the weekend of the Greenville Catfish Event usually held in mid-July.

1146-75-73

- From noon Friday, 05/24/2024 to 6:00 AM Tuesday, 05/28/2024 for Memorial Day;
- From noon Wednesday, 07/03/2024 to 6:00 AM Monday, 07/08/2024 for Independence Day;
- From noon Friday, 08/30/2024 to 6:00 AM Monday, 09/03/2024 for Labor Day.

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- From noon Friday, 05/26/2023 to 6:00 AM Tuesday, 05/29/2023 for Memorial Day;
- From noon Friday, 06/30/2023 to 6:00 AM Wednesday, 07/5/2023 for Independence Day;
- From noon Friday, 09/1/2023 to 6:00 AM Tuesday, 09/04/2023 for Labor Day.

10. Describe the method(s) (LCAT, Quadro, FDM 11-50-30, Synchro, etc.) used to estimate motorist delays or queue length? (Applicable only for freeways, expressways, and signalized corridors).

See Attachment 8 for estimate of motorist delays. Attachment 8 details additional length, time and user cost associated with proposed detours of WIS 15 under ID 1146-75-72 and US 45 under ID 1146-75-73.

11. What is the anticipated travel delay during peak travel periods for freeways and expressways (also indicate frequency, e.g. daily and duration). Please compare the peak hour volumes per lane with the work zone capacity criteria in 11-50-30. If it exceeds the estimated capacity, a delay calculation is required. If the delay is more than 15 minutes, the TMP will be a type 3 and if less than 15 minutes, it generally will be a type 2. The Regional Work Zone Engineer can assist you in determining your delay.

Due to construction operations along the route, traffic may experience between 2 and 7 minutes added to their normal commute time (see detour times in Attachment 9).

Interim Liquidated Damages (ILDs) are based on road user costs and will be included in IDs 1146-75-72 and 1146-75-73. ILDs will be $4,500/DAY on ID 1146-75-72 for each additional day WIS 15 is closed and $6,500/DAY on ID 1146-75-73 for each additional day that USH 45 is closed. See Attachment 8.

No ILDs are included in ID 1146-75-76 since the opening of the roundabout is at the end of the project and any damages will be assessed per Section 109.

12. Identify alternate routes anticipated, and any alternate route improvements or signing planned. Local traffic may divert to various local routes to avoid any perceived construction delays.

No alternative routes will be posted for the project. There will other local, county highways that may be utilized but will not be signed. The 76/96 signalized intersection should be monitored as this will be a shorter route for many motorists, rather than utilizing the full detour. Due to existing safety concerns, STH 96 wasn't used as a detour route.

13. Are any intersection traffic control changes proposed such as temporary signals, temporary changes to an all way stop, etc?

The signalized STH 15/USH 45 intersection will be modified to a temporary 3-way stop condition during the USH 45 detour under ID 1146-75-73.

14. Are there anticipated traffic impacts from the proposed project on other roads/routes in the region/corridor? Identify other projects in the corridor (only if delay anticipated on this project)

N/A

15. Does the project affect other regions/states? ☒ Yes ☐ No
If yes, explain coordination and mitigation strategies:

Work along USH 45 will be coordinated with the North Central Region.

16. Check mitigation strategies planned

STRATEGY		COMMENTS
Public information campaigns	☒	_____
Off-peak lane closures	☐	Lane closures will be allowed anytime
Extra law enforcement	☒	An extra law enforcement mitigation contract will be in place during construction.
Temporary widening to maintain traffic lanes	☒	_____
Changeable message signs (PCMS)	☒	To be utilized 7 days prior to start of construction, prior to detours, closures of sideroads, and all traffic changes
Ramp closures	☐	_____
Temporary signals/timing revisions	☒	Monitoring of 76/96 signal will be done throughout the project.
Coordination with adjacent projects	☐	_____
Innovative contracting, (lane rental, A+B, etc)	☒	Failure to open roadway damages will apply for STH 15 and USH 45.
Temporary Emergency Pullouts	☐	_____
Motorist service patrols	☐	_____
Nighttime Work	☒	For installation of 4 culverts under ID 1146-75-72
Enhanced Traffic control devices (Wet reflective pavement marking, temp concrete barrier, etc)	☐	_____
Reduced regulatory speed limit (requires declaration approved by Regional Traffic Engineer, & by BHO if 65-mph hwy.)	☐	_____

Other (identify):

17. Describe public information strategies planned (coordinate this activity with your Regional Communications Manager):

A public information meeting will be held prior to the start of each project to communicate the final contract breakout and staging plans for public review. WisDOT will utilize the STH 15 project site on the WisDOT website and the (511) Wisconsin Lane Closure System to provide information relating to construction operations and traffic impacts. Media releases and changeable message signs will also be used to provide advanced notice of lane closures and detours.

18. Describe incident management strategies planned:

Law enforcement agencies including the Wisconsin State Patrol, local police, local fire departments/EMS, county sheriff, State Traffic Operations Center (STOC), public works departments, schools and post offices will be updated during construction operations.

19. Describe how transit impacts will be mitigated:

a) Is access to bus stops affected? ☐ Yes ☒ No. If yes, explain

Attachment(s) ☒ Yes ☐ No

1) Project Location Map
2) Project Overview
3) 1146-75-73 Project Staging and Detour Plans
4) 1146-75-76 Project staging and Detour Plans
5) 1146-75-71 Project Staging Plans
6) 1146-75-72 Project Staging Plans and Detour Plans
7) Contract Time for Completion for 1146-75-71, 77, 76, 72, & 73
8) Interim Liquidated Damage Calculations for IDs 1146-75-72 and 1146-75-73
9) Travel time comparison for normal and detour routes

95959Project ID: 1146-75-00

Preparer of TMP: Jeff Bauer **Title/Company:** Project Manager/Jacobs
☐60% (initials) ☒90% JAB (initials)

Approval
Project Manager: Bill Bertrand Date: 4/21/20 Telephone: 920-360-3124

Joshua Falk 5/18/20
Reviewer (Regional Traffic or Local Prog. Mgmt. Consultant) Date
☐60% (initials) ☒90% JDF (initials)

Tony Buchholz P.E. 5-18-2020
Region Project Development Chief or Local Program Manager Date

☐60% (initials) ☒90% TJB (initials)

Concurrence:

BPD Project Services Chief Date
☐60% (initials) ☐90% (initials)

FHWA (Federal Oversight Projects Only) Date
☐60% (initials) ☐90% 232323 (initials)

CIVIL TOWNS

LEGEND

ATTACHMENT 1

OUTAGAMIE CO.

DEPARTMENT OF TRANSPORTATION
STATE OFFICE BUILDING
Madison, Wisconsin

SECTION NUMBERING OF A TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

REGIONS

MILES OF HIGHWAY
as of Dec. 31, 2010

STATE	187
COUNTY	346
LOCAL ROADS	1,462
OTHER ROADS	10
TOTAL FOR COUNTY	2,005

Land Area (2000 Census) ..... 640 sq mi
Population (2000 Census) 160,971
County Seat ..... Appleton

SCALE 0 1 2 MILES

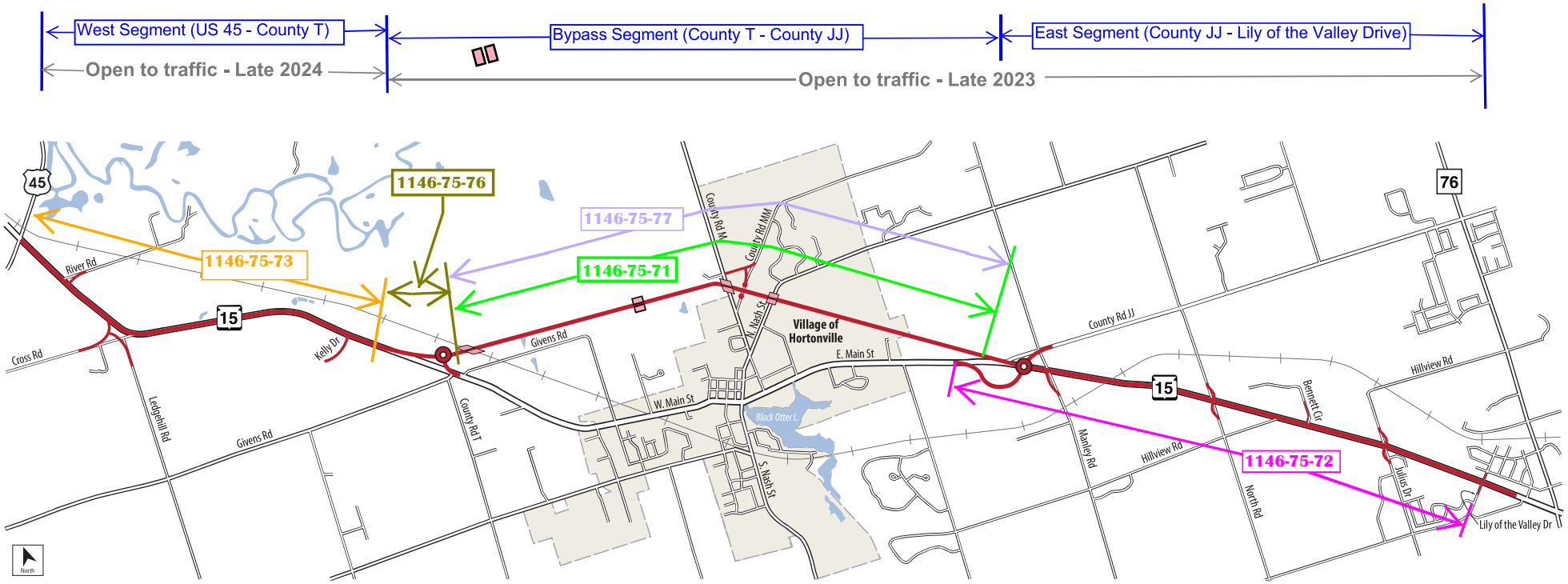
Corrected for
JAN. 2012

Base compiled from U.S.G.S. Quadrangles
1:100,000 Series

For boundaries of public hunting and fishing grounds please contact the Department of Natural Resources

Grid based on the state plane coordinate system central zone and the NAD 27

OUTAGAMIE 44-NE

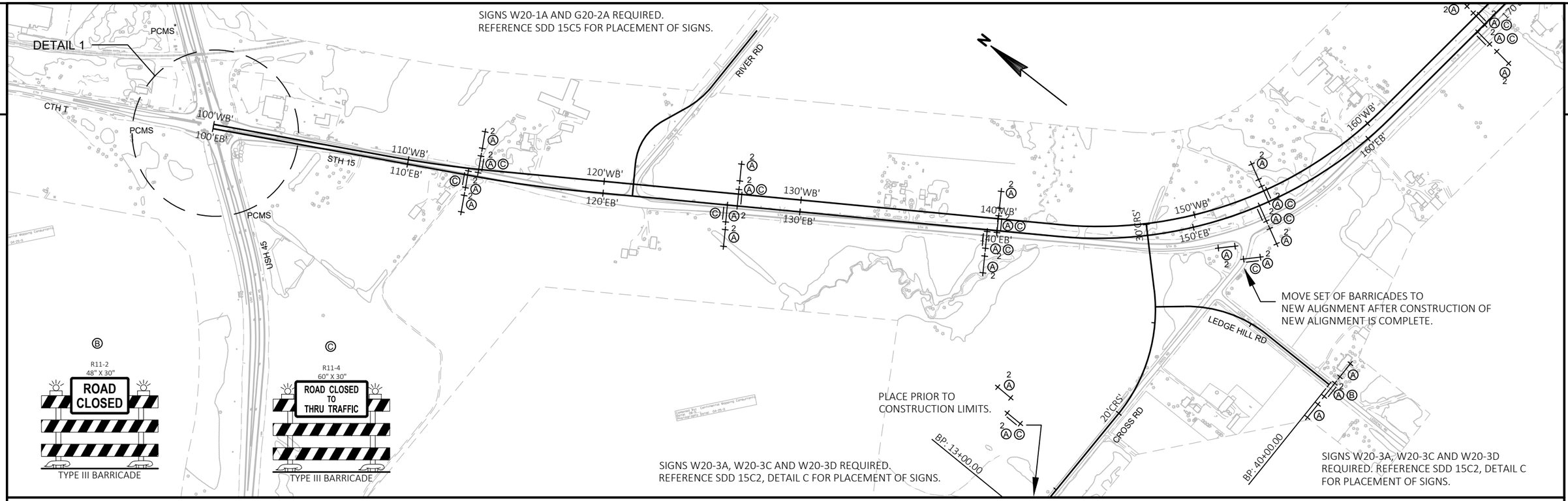


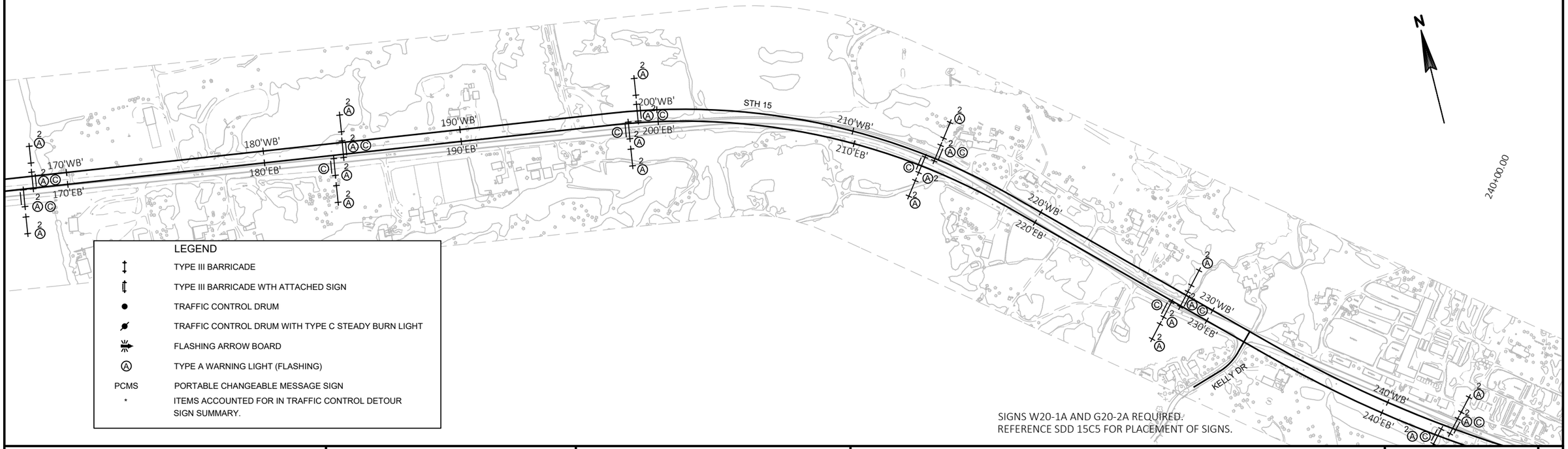
ATTACHMENT 2

WIS 15 Expansion Overview

ATTACHMENT 3

2

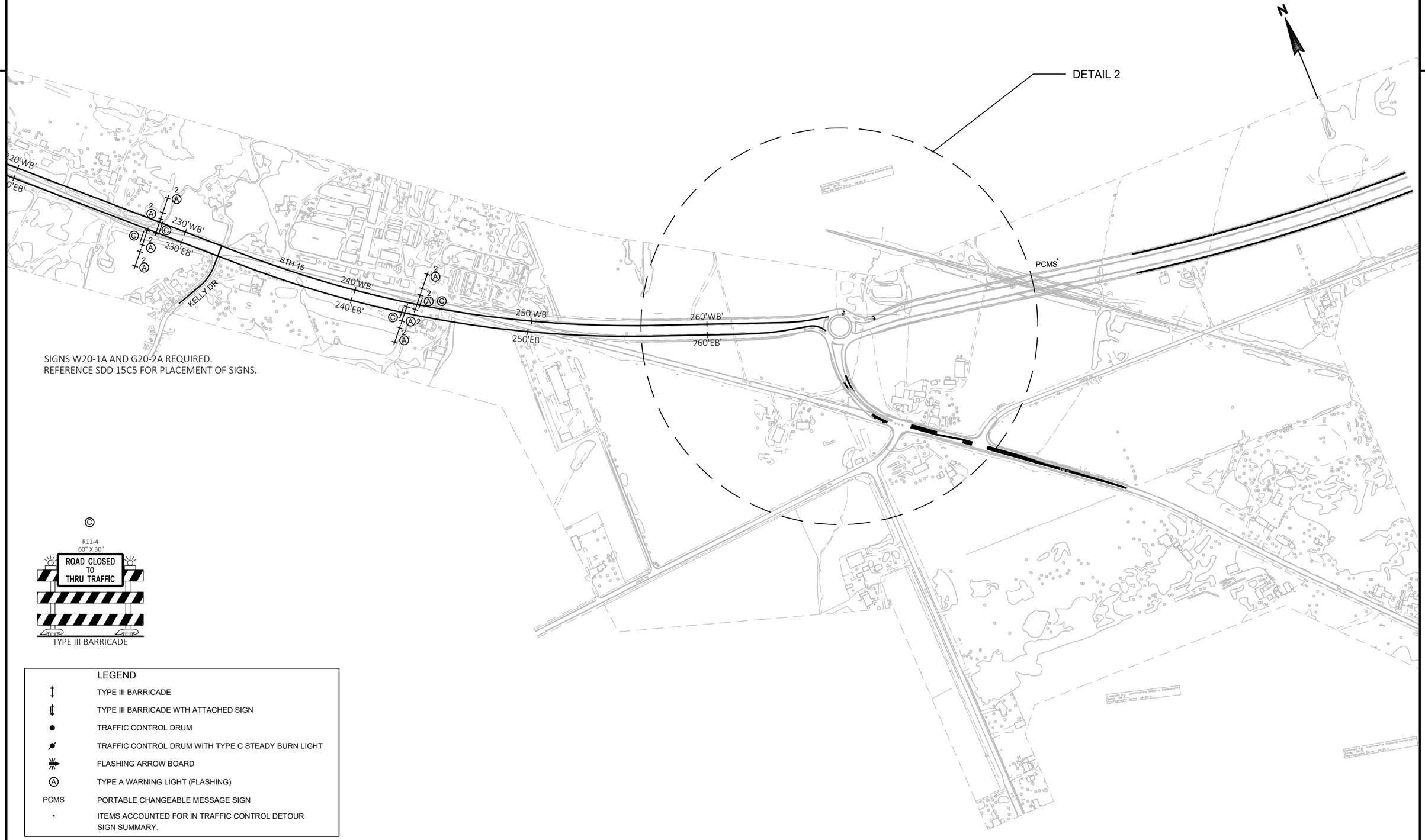




PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\025002_TC.DWG
LAYOUT NAME - 025001_tc
PLOT DATE : 7/1/2019 11:33 AM PLOT BY : FARRELL, ALAN E PLOT NAME : PLOT SCALE : 1 IN:500 FT

2



©

R11-4
60" X 30"

TYPE III BARRICADE

LEGEND	
‡	TYPE III BARRICADE
‡	TYPE III BARRICADE WTH ATTACHED SIGN
●	TRAFFIC CONTROL DRUM
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
Ⓐ	TYPE A WARNING LIGHT (FLASHING)
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
*	ITEMS ACCOUNTED FOR IN TRAFFIC CONTROL DETOUR SIGN SUMMARY.

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\025002_TC.DWG
LAYOUT NAME - 025002_tc

PLOT DATE : 7/1/2019 11:33 AM PLOT BY : FARRELL, ALAN E PLOT NAME : PLOT SCALE : 1 IN:500 FT

DETAIL 1

SIGNS W20-3A AND W20-3D REQUIRED.
REFERENCE SDD 15C2, DETAIL B FOR PLACEMENT OF SIGNS.

SIGN W20-1A REQUIRED. REFERENCE SDD 15C3,
DETAIL 3 FOR PLACEMENT OF SIGN.

SIGN W20-1A REQUIRED. REFERENCE SDD 15C3,
DETAIL 3 FOR PLACEMENT OF SIGN.

22 DRUMS REQUIRED FOR CONSTRUCTION NEAR THE
INTERSECTION OF STH 15 AND USH 45.

USH 45

STH 15 EB

STH 15 WB

100'EB'

100'WB'

101'EB'

101'WB'

36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00

44+00 45+00 46+00 47+00 48+00 49+00 50+00 51+00

PCMS*

RIPRAP

INL MH SIGN

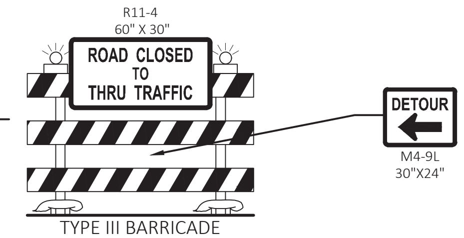
LEGEND

	TYPE III BARRICADE
	TYPE III BARRICADE WTH ATTACHED SIGN
●	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
Ⓐ	TYPE A WARNING LIGHT (FLASHING)
*	ITEMS ACCOUNTED FOR IN TRAFFIC CONTROL DETOUR SIGN SUMMARY.

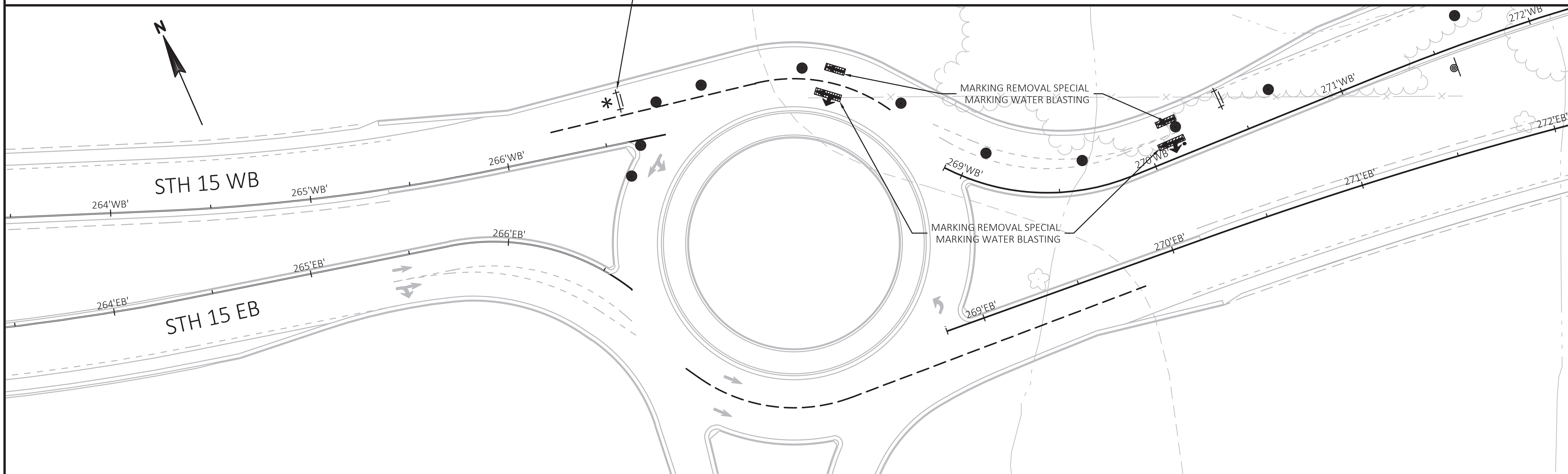
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1	SHEET E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\025003_TC.DWG
LAYOUT NAME - 025003_tc

PLOT DATE : 7/1/2019 11:34 AM PLOT BY : FARRELL, ALAN E PLOT NAME : PLOT SCALE : 1 IN:50 FT



DETAIL 2

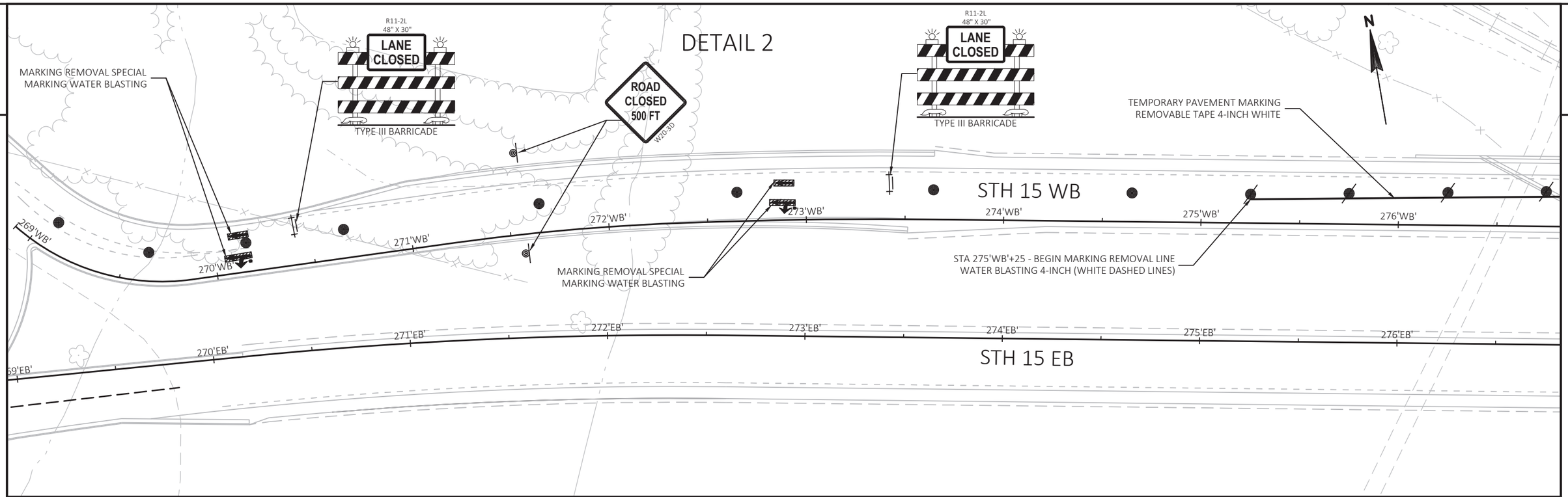


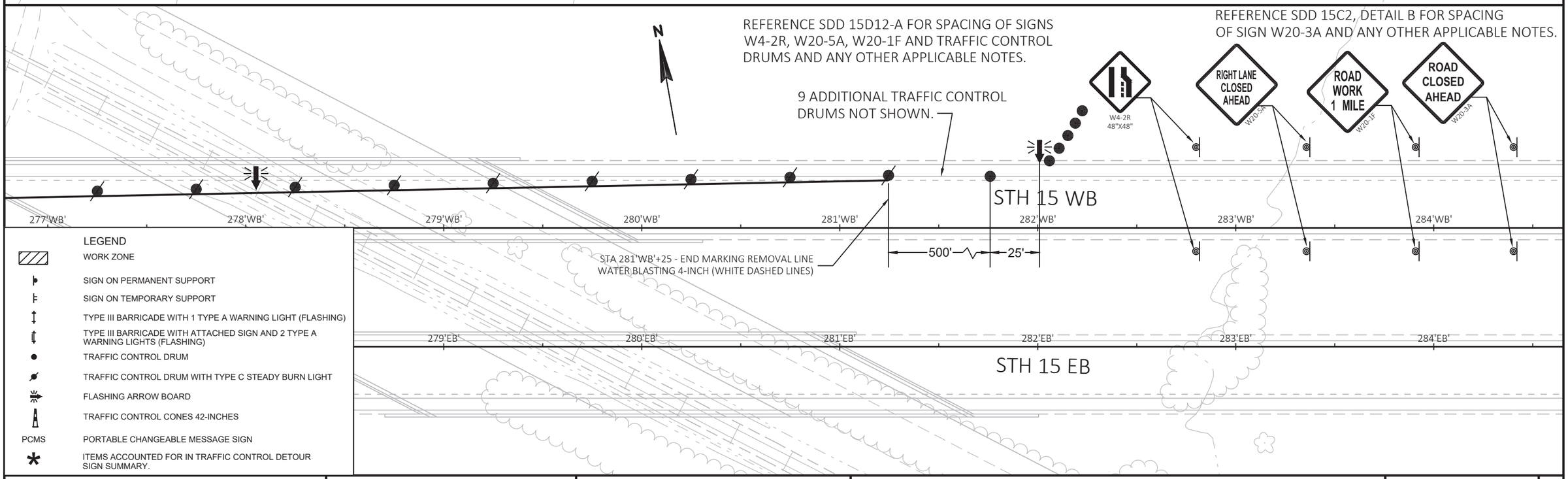
LEGEND

- WORK ZONE
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH 1 TYPE A WARNING LIGHT (FLASHING)
- TYPE III BARRICADE WITH ATTACHED SIGN AND 2 TYPE A WARNING LIGHTS (FLASHING)
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- TRAFFIC CONTROL CONES 42-INCHES
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- * ITEMS ACCOUNTED FOR IN TRAFFIC CONTROL DETOUR SIGN SUMMARY.

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1	SHEET	E

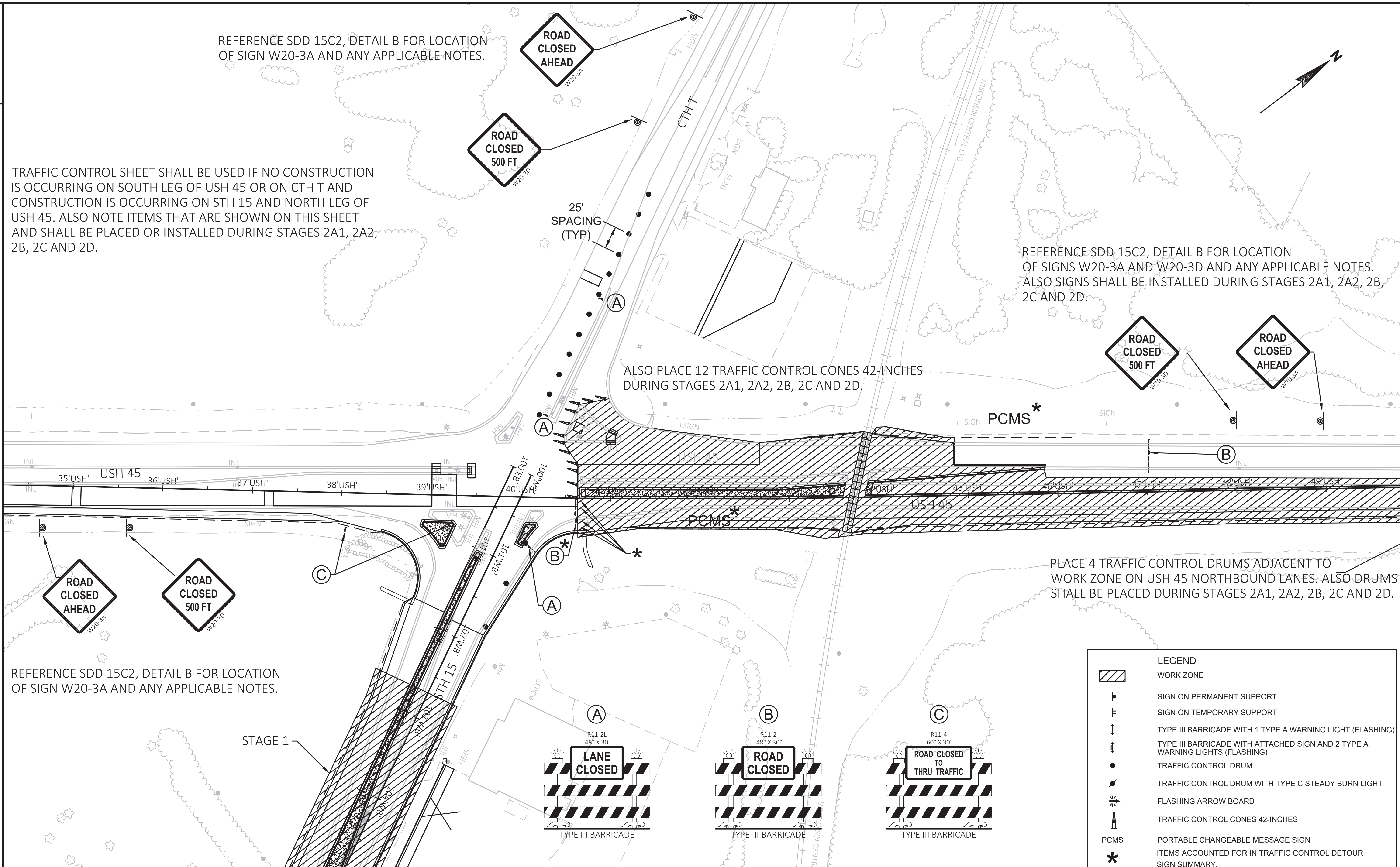
DETAIL 2





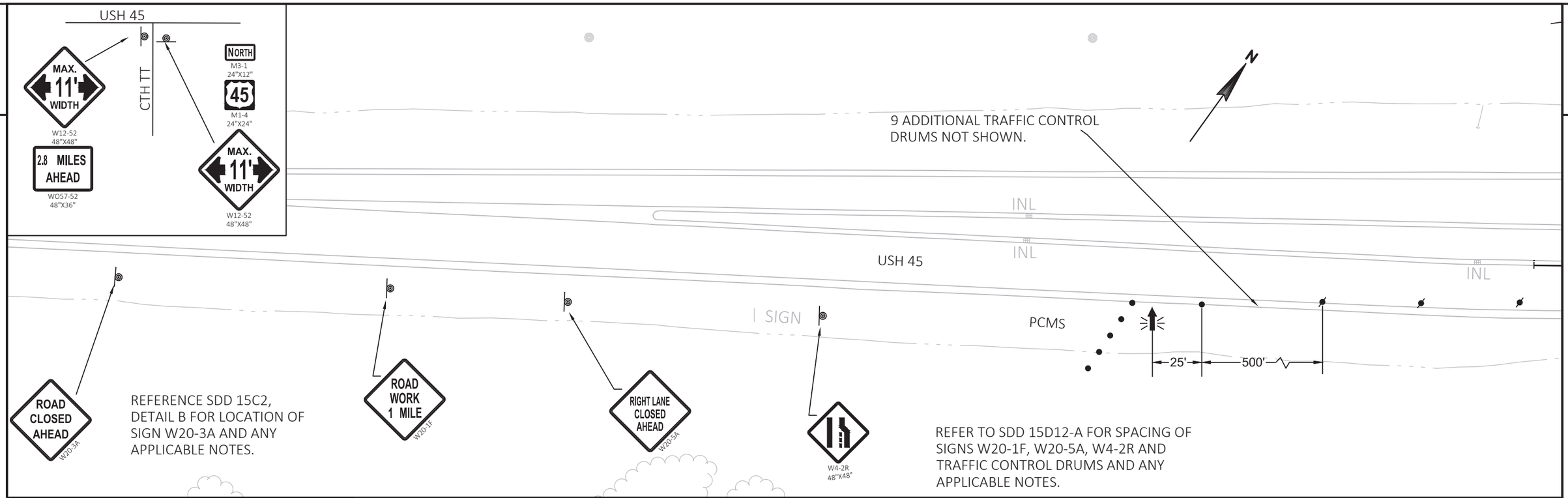
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\11467573_WEST\SHEETSPLAN\025003_TC.DWG
LAYOUT NAME - 025005_tc
PLOT DATE : 4/30/2020 2:15 PM
PLOT BY : MALUEG, RYAN P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44


REFERENCE SDD 15C2, DETAIL B FOR LOCATION OF SIGN W20-3A AND ANY APPLICABLE NOTES.
ROAD CLOSED AHEAD
W20-3A
ROAD CLOSED 500 FT
W20-3D
CTH T
25' SPACING (TYP)
TRAFFIC CONTROL SHEET SHALL BE USED IF NO CONSTRUCTION IS OCCURRING ON SOUTH LEG OF USH 45 OR ON CTH T AND CONSTRUCTION IS OCCURRING ON STH 15 AND NORTH LEG OF USH 45. ALSO NOTE ITEMS THAT ARE SHOWN ON THIS SHEET AND SHALL BE PLACED OR INSTALLED DURING STAGES 2A1, 2A2, 2B, 2C AND 2D.
REFERENCE SDD 15C2, DETAIL B FOR LOCATION OF SIGNS W20-3A AND W20-3D AND ANY APPLICABLE NOTES. ALSO SIGNS SHALL BE INSTALLED DURING STAGES 2A1, 2A2, 2B, 2C AND 2D.
ALSO PLACE 12 TRAFFIC CONTROL CONES 42-INCHES DURING STAGES 2A1, 2A2, 2B, 2C AND 2D.
PCMS*
USH 45
STH 15
PLACE 4 TRAFFIC CONTROL DRUMS ADJACENT TO WORK ZONE ON USH 45 NORTHBOUND LANES. ALSO DRUMS SHALL BE PLACED DURING STAGES 2A1, 2A2, 2B, 2C AND 2D.
REFERENCE SDD 15C2, DETAIL B FOR LOCATION OF SIGN W20-3A AND ANY APPLICABLE NOTES.
STAGE 1
A
R11-2L 48" X 30"
LANE CLOSED
TYPE III BARRICADE
B
R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE
C
R11-4 60" X 30"
ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE
LEGEND
WORK ZONE
SIGN ON PERMANENT SUPPORT
SIGN ON TEMPORARY SUPPORT
TYPE III BARRICADE WITH 1 TYPE A WARNING LIGHT (FLASHING)
TYPE III BARRICADE WITH ATTACHED SIGN AND 2 TYPE A WARNING LIGHTS (FLASHING)
TRAFFIC CONTROL DRUM
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
FLASHING ARROW BOARD
TRAFFIC CONTROL CONES 42-INCHES
PCMS PORTABLE CHANGEABLE MESSAGE SIGN
* ITEMS ACCOUNTED FOR IN TRAFFIC CONTROL DETOUR SIGN SUMMARY.

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2	SHEET	E

FILE NAME : C:\CIVIL 3D PROJECTS\11467573_WEST\SHEETSPLAN\025004_TC.DWG
LAYOUT NAME - 025006_tc
PLOT DATE : 4/29/2020 3:01 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:100 FT

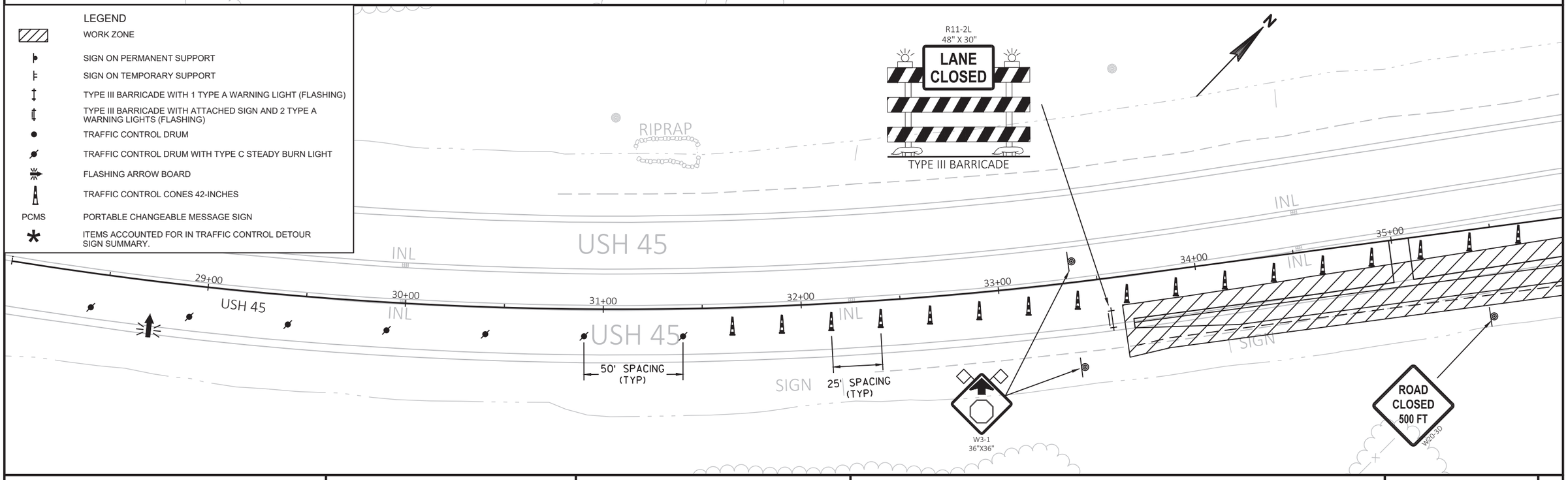


REFERENCE SDD 15C2, DETAIL B FOR LOCATION OF SIGN W20-3A AND ANY APPLICABLE NOTES.

REFER TO SDD 15D12-A FOR SPACING OF SIGNS W20-1F, W20-5A, W4-2R AND TRAFFIC CONTROL DRUMS AND ANY APPLICABLE NOTES.

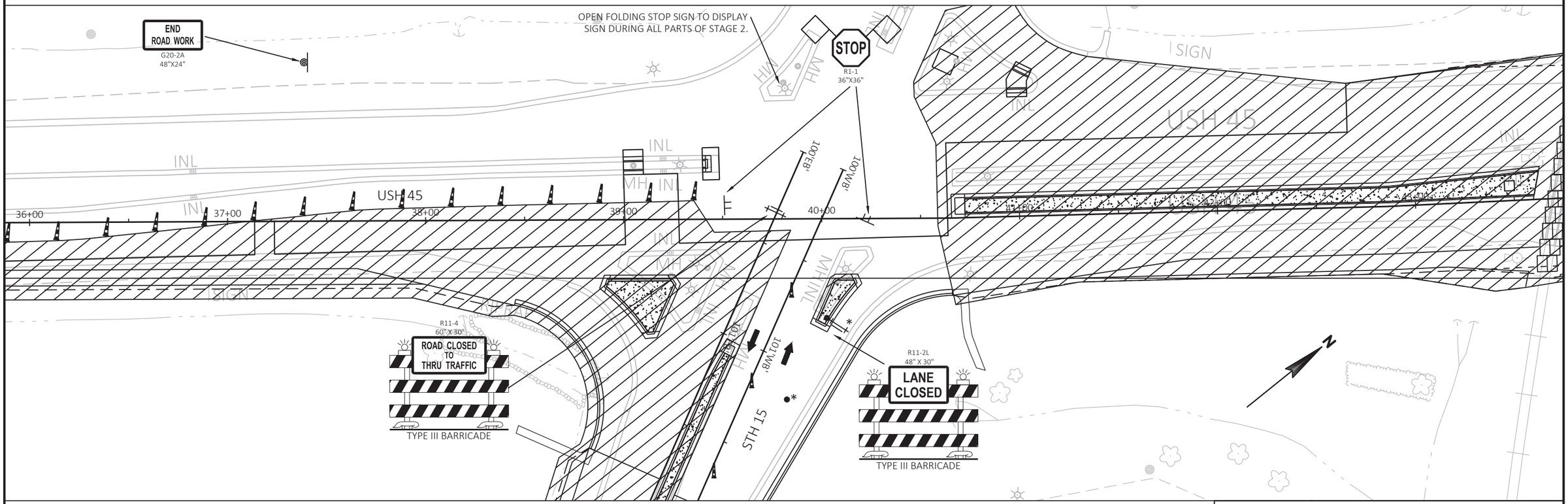
LEGEND

	WORK ZONE
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TYPE III BARRICADE WITH 1 TYPE A WARNING LIGHT (FLASHING)
	TYPE III BARRICADE WITH ATTACHED SIGN AND 2 TYPE A WARNING LIGHTS (FLASHING)
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	TRAFFIC CONTROL CONES 42-INCHES
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
*	ITEMS ACCOUNTED FOR IN TRAFFIC CONTROL DETOUR SIGN SUMMARY.



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2A1	SHEET	E

2



LEGEND

	WORK ZONE
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TYPE III BARRICADE WITH 1 TYPE A WARNING LIGHT (FLASHING)
	TYPE III BARRICADE WITH ATTACHED SIGN AND 2 TYPE A WARNING LIGHTS (FLASHING)
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	TRAFFIC CONTROL CONES 42-INCHES
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
*	ITEMS ACCOUNTED FOR IN TRAFFIC CONTROL DETOUR SIGN SUMMARY.

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2A1	SHEET	E

FILE NAME : C:\CIVIL 3D PROJECTS\11467573_WEST\SHEETSPLAN\025003_TC_2A1.DWG
LAYOUT NAME - 025003a_tc

PLOT DATE : 4/29/2020 2:42 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : ##########

2

LEGEND

- WORK ZONE
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH 1 TYPE A WARNING LIGHT (FLASHING)
- TYPE III BARRICADE WITH ATTACHED SIGN AND 2 TYPE A WARNING LIGHTS (FLASHING)
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- TRAFFIC CONTROL CONES 42-INCHES
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- * — ITEMS ACCOUNTED FOR IN TRAFFIC CONTROL DETOUR SIGN SUMMARY.

END ROAD WORK
G20-2A
48"X24"

CTH T

STOP
R1-1
36"X36"

OPEN FOLDING STOP SIGN TO DISPLAY SIGN DURING ALL PARTS OF STAGE 2.

R11-4
60" X 30"
ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE

INSTALL SIGN W3-1 600 FEET FROM STOP SIGN.

REFERENCE SDD 15C2, DETAIL B FOR LOCATION OF SIGN W20-3A AND ANY APPLICABLE NOTES.

W3-1
36"X36"

ROAD CLOSED AHEAD
W20-3A

PCMS
ROAD CLOSED 500 FT
W20-3D

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

W3-1
36"X36"

STH 15 WB

101'WB' 102'WB' 103'WB' 104'WB' 105'WB' 106'WB' 107'WB' 108'WB'

101'EB' 102'EB' 103'EB' 104'EB' 105'EB' 106'EB' 107'EB' 108'EB'

STH 15 EB

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

USH 45

100'WB'

100'EB'

40'X40'

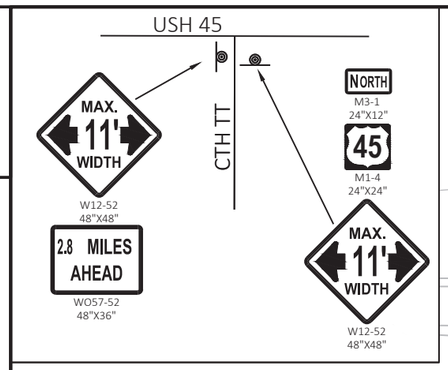
101'WB'

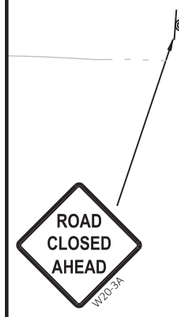
101'EB'

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2A1	SHEET	E

FILE NAME : C:\CIVIL 3D PROJECTS\11467573_WEST\SHEETSPLAN\025003_TC_2A1.DWG
LAYOUT NAME - 025003b_tc

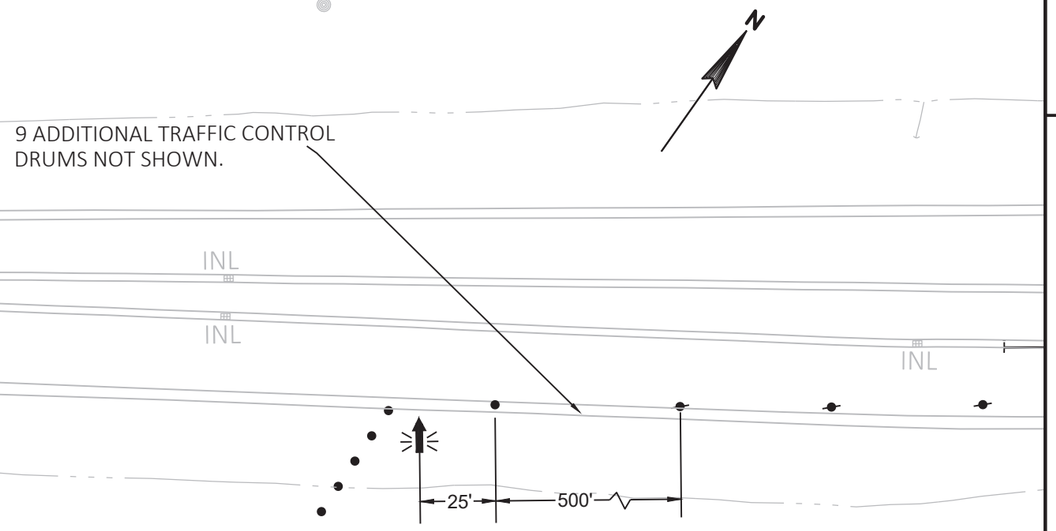
PLOT DATE : 4/29/2020 2:43 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:50 FT





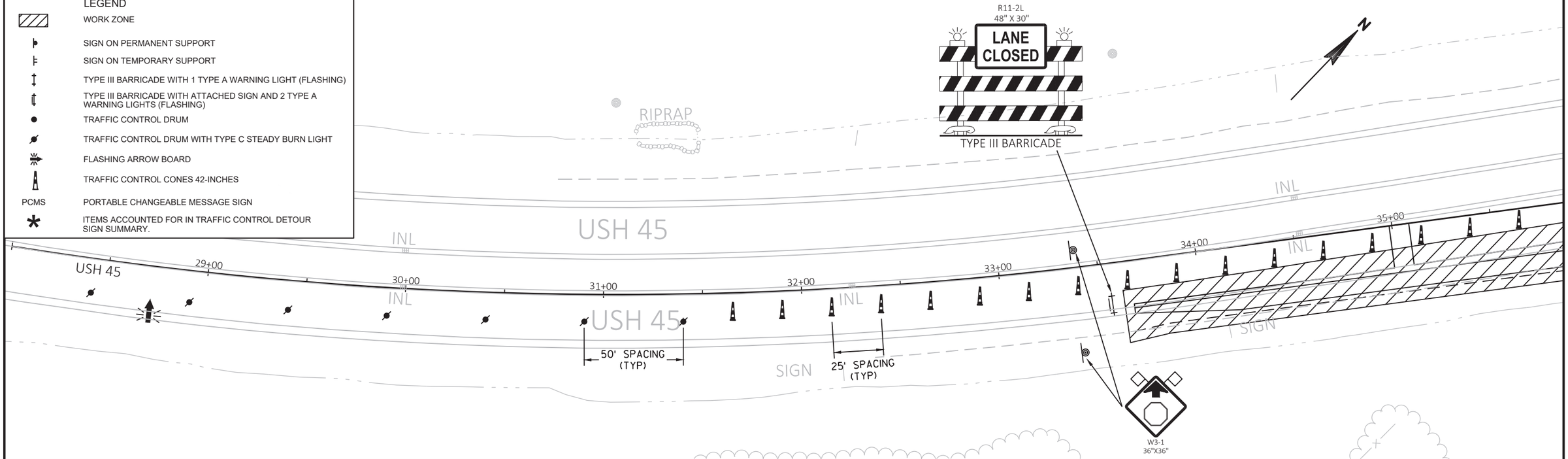
REFERENCE SDD 15C2, DETAIL B FOR LOCATION OF SIGN W20-3A AND ANY APPLICABLE NOTES.

REFER TO SDD 15D12-A SPACING OF SIGNS W20-1F, W20-5A, W4-2R AND TRAFFIC CONTROL DRUMS AND ANY APPLICABLE NOTES.



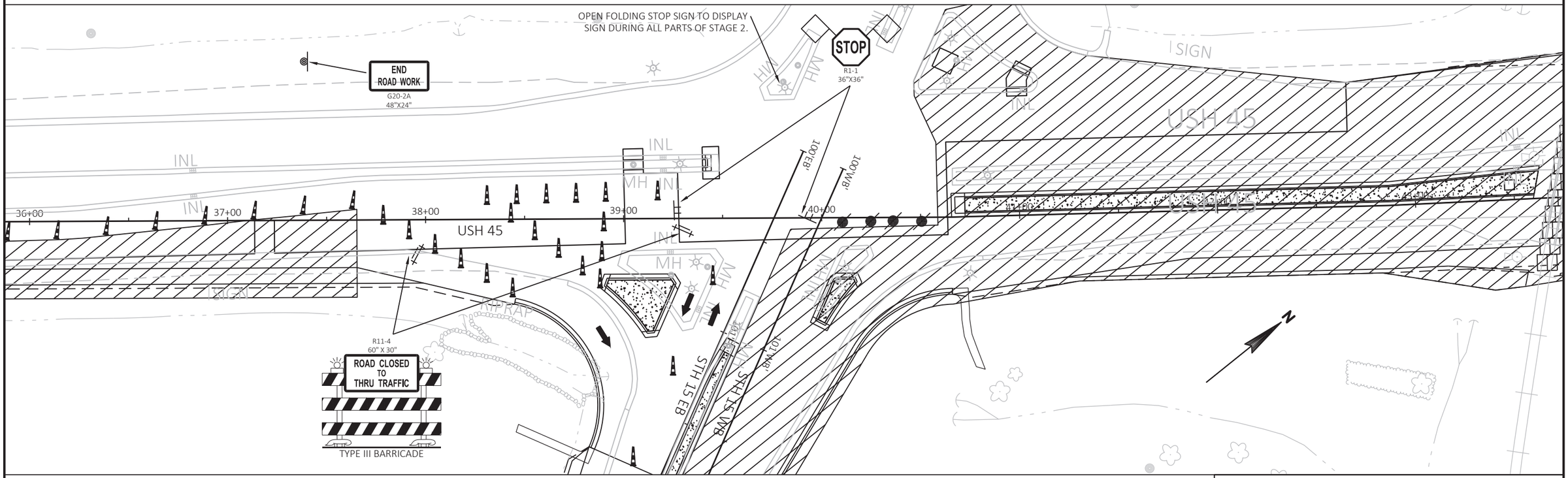
LEGEND

	WORK ZONE
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TYPE III BARRICADE WITH 1 TYPE A WARNING LIGHT (FLASHING)
	TYPE III BARRICADE WITH ATTACHED SIGN AND 2 TYPE A WARNING LIGHTS (FLASHING)
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	TRAFFIC CONTROL CONES 42-INCHES
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
*	ITEMS ACCOUNTED FOR IN TRAFFIC CONTROL DETOUR SIGN SUMMARY.



PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2A2	SHEET	E

2



LEGEND

	WORK ZONE
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TYPE III BARRICADE WITH 1 TYPE A WARNING LIGHT (FLASHING)
	TYPE III BARRICADE WITH ATTACHED SIGN AND 2 TYPE A WARNING LIGHTS (FLASHING)
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	TRAFFIC CONTROL CONES 42-INCHES
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
*	ITEMS ACCOUNTED FOR IN TRAFFIC CONTROL DETOUR SIGN SUMMARY.

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2A2	SHEET	E

2

LEGEND

- WORK ZONE
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH 1 TYPE A WARNING LIGHT (FLASHING)
- TYPE III BARRICADE WITH ATTACHED SIGN AND 2 TYPE A WARNING LIGHTS (FLASHING)
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- TRAFFIC CONTROL CONES 42-INCHES
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- * — ITEMS ACCOUNTED FOR IN TRAFFIC CONTROL DETOUR SIGN SUMMARY.

END ROAD WORK
G20-2A
48"X24"

FLAG

CTH T

USH 45

STOP
R1-1
36"X36"

OPEN FOLDING STOP SIGN TO DISPLAY SIGN DURING ALL PARTS OF STAGE 2.

R11-4
60" X 30"
ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE

W3-1
36"X36"

PLACE SIGN W3-1 600 FEET FROM STOP SIGN.

ROAD CLOSED AHEAD
W20-3A

REFERENCE SDD 15C2, DETAIL B FOR LOCATION OF SIGN W20-3D AND ANY APPLICABLE NOTES.

ROAD CLOSED 500 FT
W20-3D

100'WB'
100'EB'
101'WB'
101'EB'

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

W3-1
36"X36"

101'WB' 102'WB' 103'WB' 104'WB' 105'WB' 106'WB' 107'WB' 108'WB'

STH 15 WB

STH 15 EB

101'EB' 102'EB' 103'EB' 104'EB' 105'EB' 106'EB' 107'EB' 108'EB'

SEPC

WELL

SIGN

MH

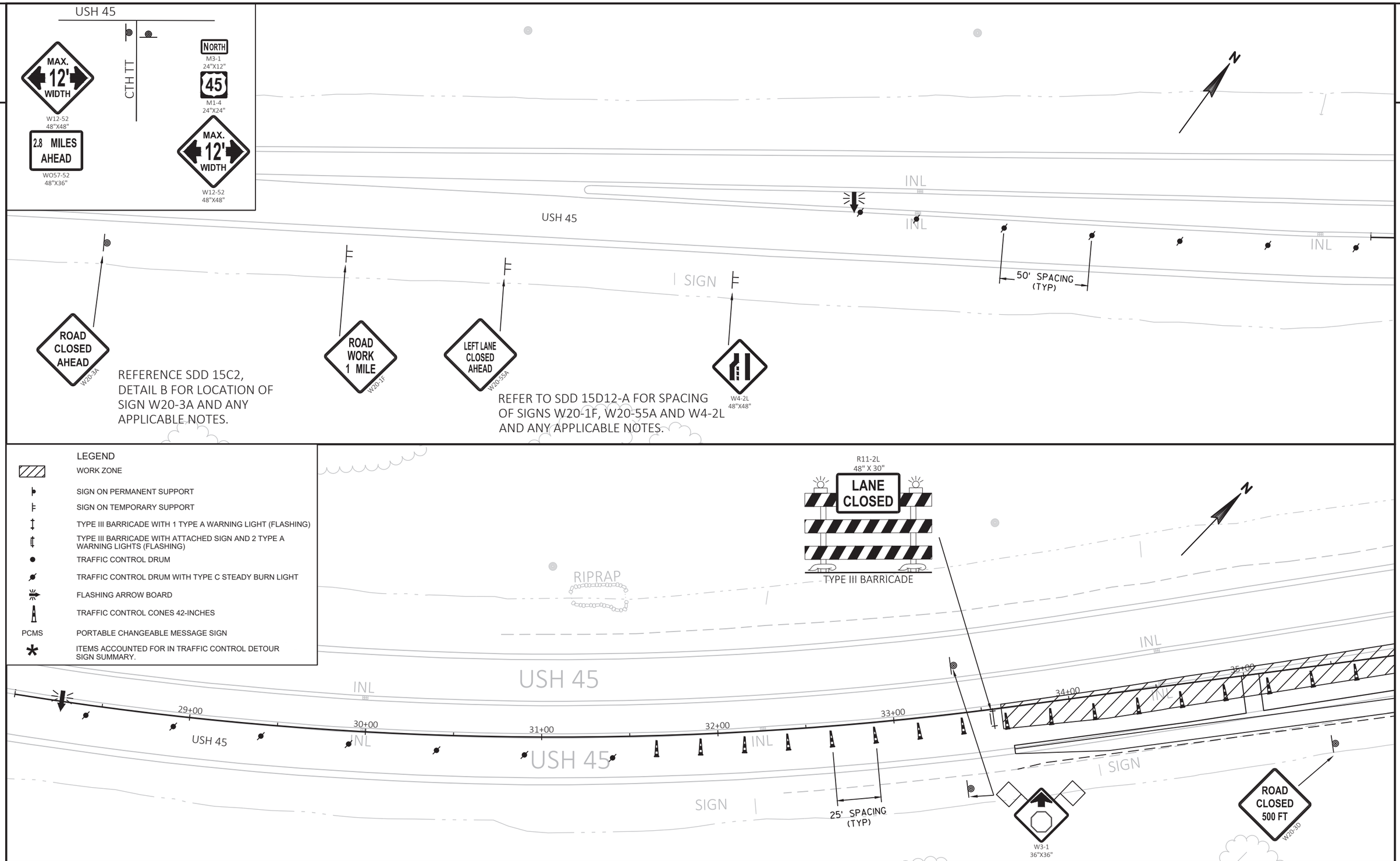
INL

HW

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2A2	SHEET	E

FILE NAME : C:\CIVIL 3D PROJECTS\11467573_WEST\SHEETSPLAN\025003_TC_2A2.DWG
LAYOUT NAME - 025004_tc

PLOT DATE : 4/29/2020 2:46 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:50 FT



LEGEND

	WORK ZONE
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TYPE III BARRICADE WITH 1 TYPE A WARNING LIGHT (FLASHING)
	TYPE III BARRICADE WITH ATTACHED SIGN AND 2 TYPE A WARNING LIGHTS (FLASHING)
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	TRAFFIC CONTROL CONES 42-INCHES
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
*	ITEMS ACCOUNTED FOR IN TRAFFIC CONTROL DETOUR SIGN SUMMARY.

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2B	SHEET E

FILE NAME : C:\CIVIL 3D PROJECTS\11467573_WEST\SHEETSPLAN\025003_TC_2B.DWG
LAYOUT NAME - 025003_tc
PLOT DATE : 4/29/2020 2:50 PM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

END
ROAD WORK
G20-2A
48"X24"

OPEN FOLDING STOP
SIGN TO DISPLAY SIGN
DURING ALL PARTS
OF STAGE 2

STOP
R1-1
36"X36"

100'EB

100'WB

USH 45

36+00

37+00

38+00

39+00

40+00

41+00

42+00

43+00

INL

MH

SIGN

ASPHALT

R11-4
60" X 30"
ROAD CLOSED
TO
THRU TRAFFIC

TYPE III BARRICADE

STH 15 EB

STH 15 WB

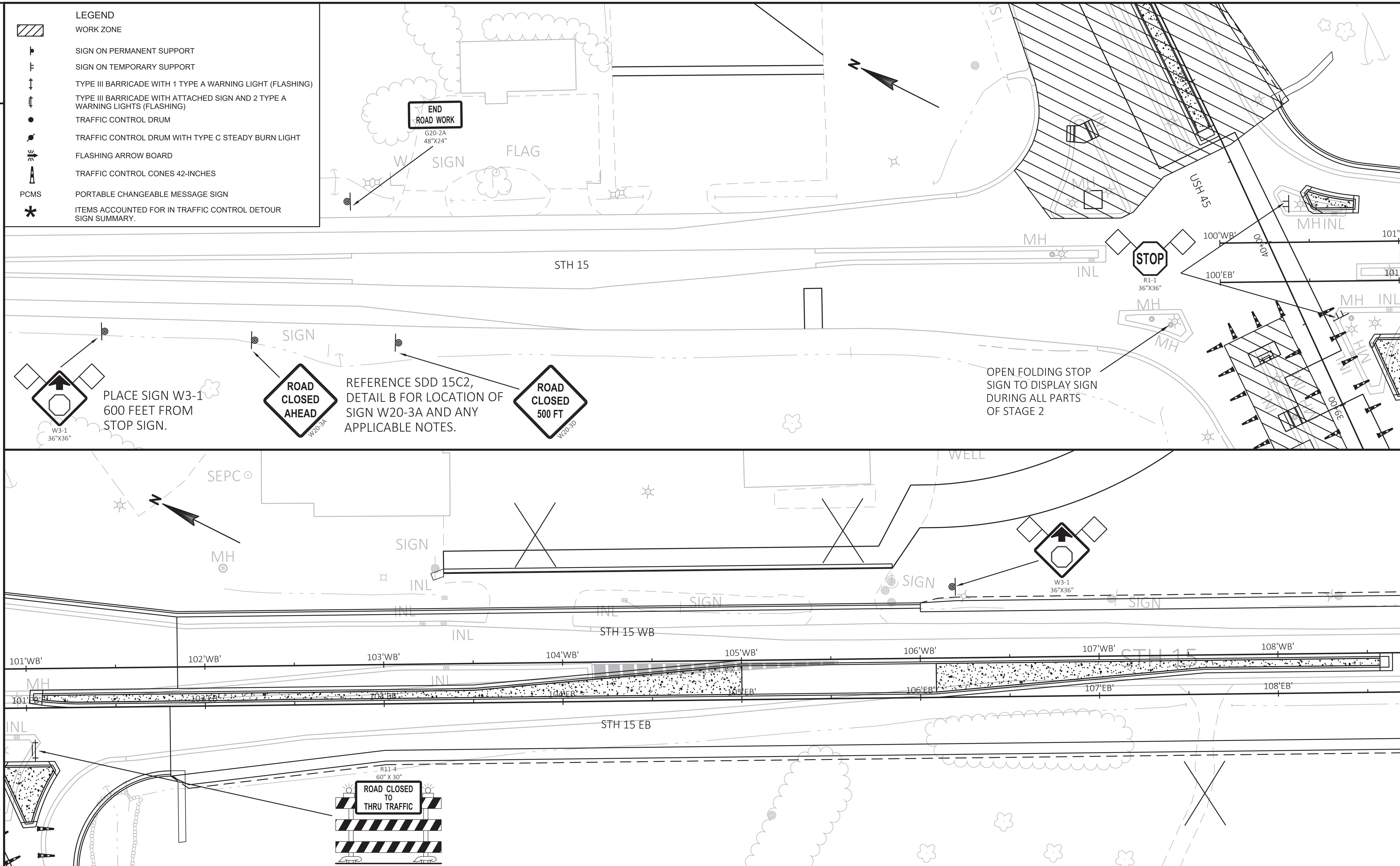
LEGEND

	WORK ZONE
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TYPE III BARRICADE WITH 1 TYPE A WARNING LIGHT (FLASHING)
	TYPE III BARRICADE WITH ATTACHED SIGN AND 2 TYPE A WARNING LIGHTS (FLASHING)
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	TRAFFIC CONTROL CONES 42-INCHES
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
*	ITEMS ACCOUNTED FOR IN TRAFFIC CONTROL DETOUR SIGN SUMMARY.

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2B	SHEET	E

FILE NAME : C:\CIVIL 3D PROJECTS\11467573_WEST\SHEETSPLAN\025003_TC_2B.DWG
LAYOUT NAME - 025003a_tc
PLOT DATE : 4/29/2020 2:51 PM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

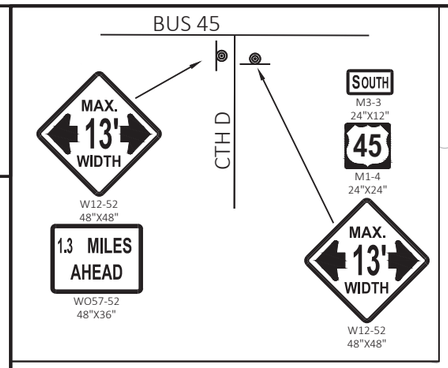
2


LEGEND
WORK ZONE
SIGN ON PERMANENT SUPPORT
SIGN ON TEMPORARY SUPPORT
TYPE III BARRICADE WITH 1 TYPE A WARNING LIGHT (FLASHING)
TYPE III BARRICADE WITH ATTACHED SIGN AND 2 TYPE A WARNING LIGHTS (FLASHING)
TRAFFIC CONTROL DRUM
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
FLASHING ARROW BOARD
TRAFFIC CONTROL CONES 42-INCHES
PCMS
PORTABLE CHANGEABLE MESSAGE SIGN
*
ITEMS ACCOUNTED FOR IN TRAFFIC CONTROL DETOUR SIGN SUMMARY.
END ROAD WORK
G20-2A
48"X24"
STH 15
USH 45
STOP
R1-1
36"X36"
100'WB'
100'EB'
101'WB'
101'EB'
PLACE SIGN W3-1 600 FEET FROM STOP SIGN.
W3-1
36"X36"
ROAD CLOSED AHEAD
W20-3A
REFERENCE SDD 15C2, DETAIL B FOR LOCATION OF SIGN W20-3A AND ANY APPLICABLE NOTES.
ROAD CLOSED 500 FT
W20-3D
OPEN FOLDING STOP SIGN TO DISPLAY SIGN DURING ALL PARTS OF STAGE 2
STH 15 WB
STH 15 EB
101'WB'
102'WB'
103'WB'
104'WB'
105'WB'
106'WB'
107'WB'
108'WB'
106'EB'
107'EB'
108'EB'
R11-4
60" X 30"
ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2B	SHEET	E

FILE NAME : C:\CIVIL 3D PROJECTS\11467573_WEST\SHEETSPLAN\025003_TC_2B.DWG
LAYOUT NAME - 025004_tc
PLOT DATE : 4/29/2020 2:52 PM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

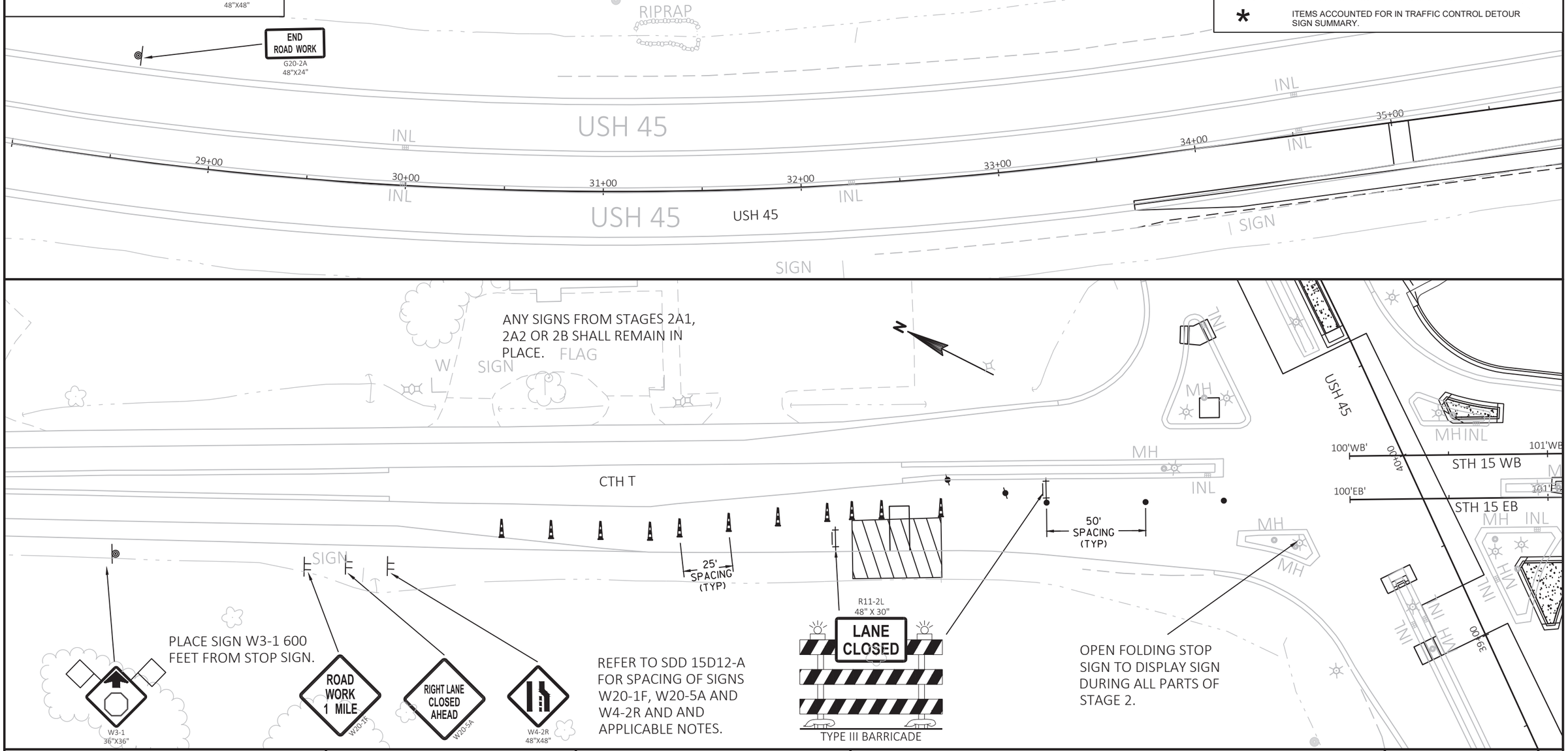
2



LEGEND

	WORK ZONE
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TYPE III BARRICADE WITH 1 TYPE A WARNING LIGHT (FLASHING)
	TYPE III BARRICADE WITH ATTACHED SIGN AND 2 TYPE A WARNING LIGHTS (FLASHING)
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	TRAFFIC CONTROL CONES 42-INCHES
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
*	ITEMS ACCOUNTED FOR IN TRAFFIC CONTROL DETOUR SIGN SUMMARY.

ANY SIGNS FROM STAGES 2A1, 2A2 OR 2B SHALL REMAIN IN PLACE.



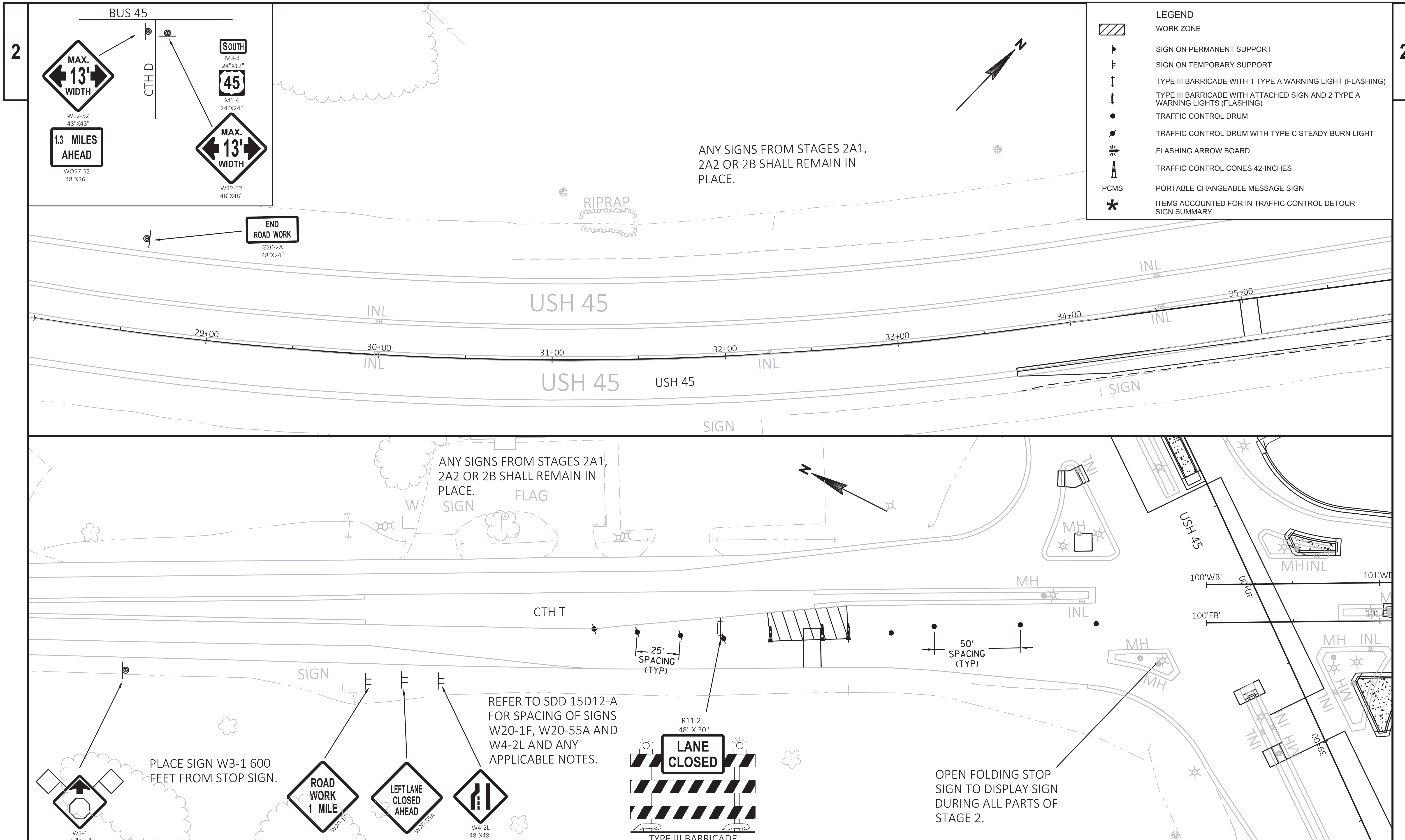
PLACE SIGN W3-1 600 FEET FROM STOP SIGN.

REFER TO SDD 15D12-A FOR SPACING OF SIGNS W20-1F, W20-5A AND W4-2R AND AND APPLICABLE NOTES.

OPEN FOLDING STOP SIGN TO DISPLAY SIGN DURING ALL PARTS OF STAGE 2.

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2C	SHEET	E

FILE NAME : C:\CIVIL 3D PROJECTS\11467573_WEST\SHEETSPLAN\025003_TC_2C.DWG
LAYOUT NAME - 025003_tc
PLOT DATE : 4/29/2020 2:54 PM
PLOT BY : MARTIN, THOMAS S
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 44


2
BUS 45
CTH D
MAX. 13' WIDTH
W12-52
48"X48"
SOUTH
M3-3
24"X12"
45
M1-4
24"X24"
1.3 MILES AHEAD
WO57-52
48"X36"
MAX. 13' WIDTH
W12-52
48"X48"
END ROAD WORK
G20-2A
48"X24"
RIPRAP
ANY SIGNS FROM STAGES 2A1, 2A2 OR 2B SHALL REMAIN IN PLACE.
LEGEND
WORK ZONE
SIGN ON PERMANENT SUPPORT
SIGN ON TEMPORARY SUPPORT
TYPE III BARRICADE WITH 1 TYPE A WARNING LIGHT (FLASHING)
TYPE III BARRICADE WITH ATTACHED SIGN AND 2 TYPE A WARNING LIGHTS (FLASHING)
TRAFFIC CONTROL DRUM
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
FLASHING ARROW BOARD
TRAFFIC CONTROL CONES 42-INCHES
PCMS
PORTABLE CHANGEABLE MESSAGE SIGN
ITEMS ACCOUNTED FOR IN TRAFFIC CONTROL DETOUR SIGN SUMMARY.
USH 45
INL
29+00
30+00
31+00
32+00
33+00
34+00
35+00
USH 45
USH 45
SIGN
ANY SIGNS FROM STAGES 2A1, 2A2 OR 2B SHALL REMAIN IN PLACE.
W
SIGN
FLAG
MH
USH 45
100'WB'
101'WB
100'EB'
CTH T
25' SPACING (TYP)
50' SPACING (TYP)
INL
MH
SIGN
PLACE SIGN W3-1 600 FEET FROM STOP SIGN.
REFER TO SDD 15D12-A FOR SPACING OF SIGNS W20-1F, W20-55A AND W4-2L AND ANY APPLICABLE NOTES.
R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE
OPEN FOLDING STOP SIGN TO DISPLAY SIGN DURING ALL PARTS OF STAGE 2.
W3-1
36"X36"
ROAD WORK 1 MILE
W20-1F
LEFT LANE CLOSED AHEAD
W20-55A
W4-2L
48"X48"

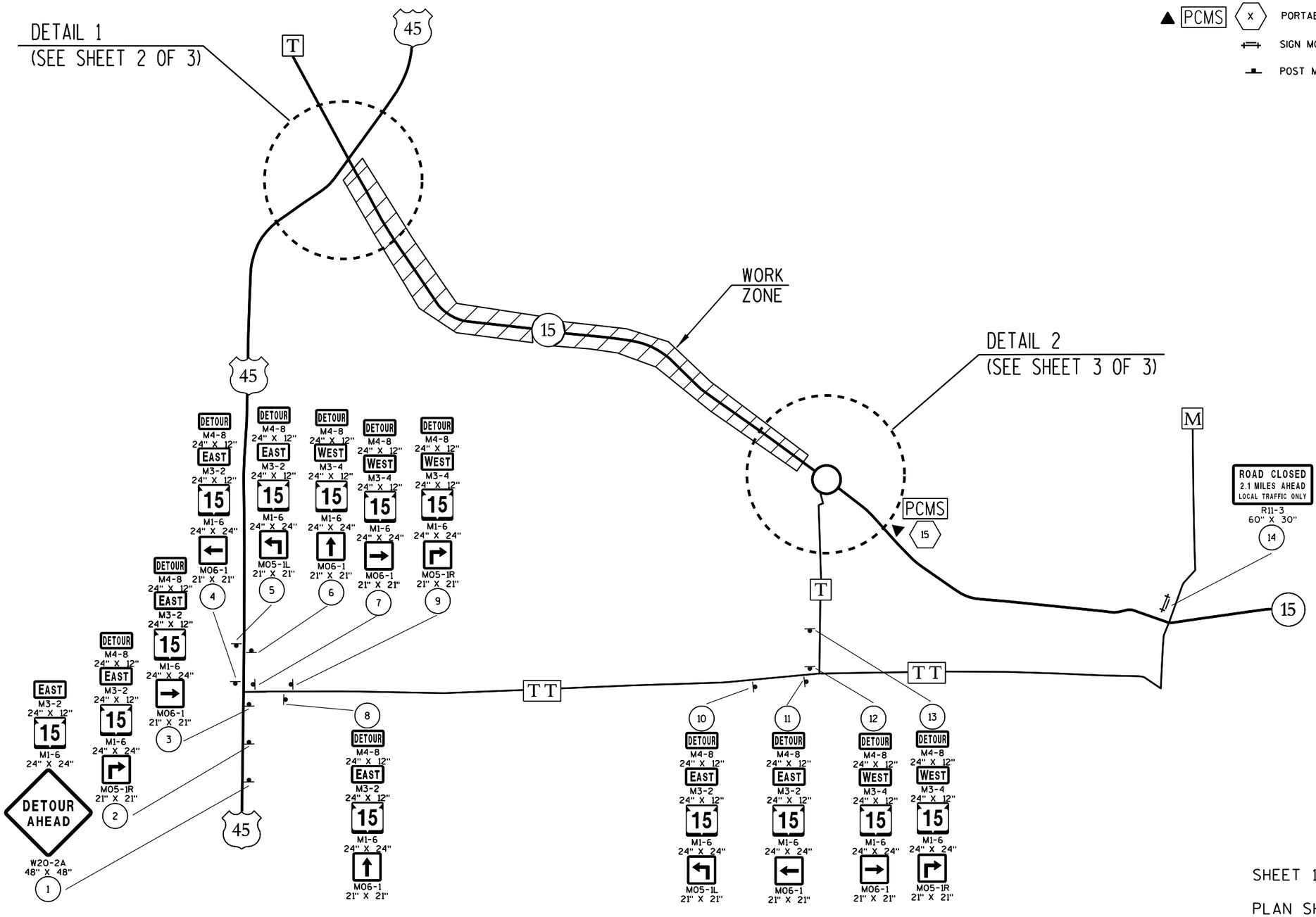
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2D	SHEET	E

FILE NAME : C:\CIVIL 3D PROJECTS\11467573_WEST\SHEETSPLAN\025003_TC_2D.DWG
LAYOUT NAME - 025003_tc
PLOT DATE : 4/30/2020 9:01 AM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

LEGEND

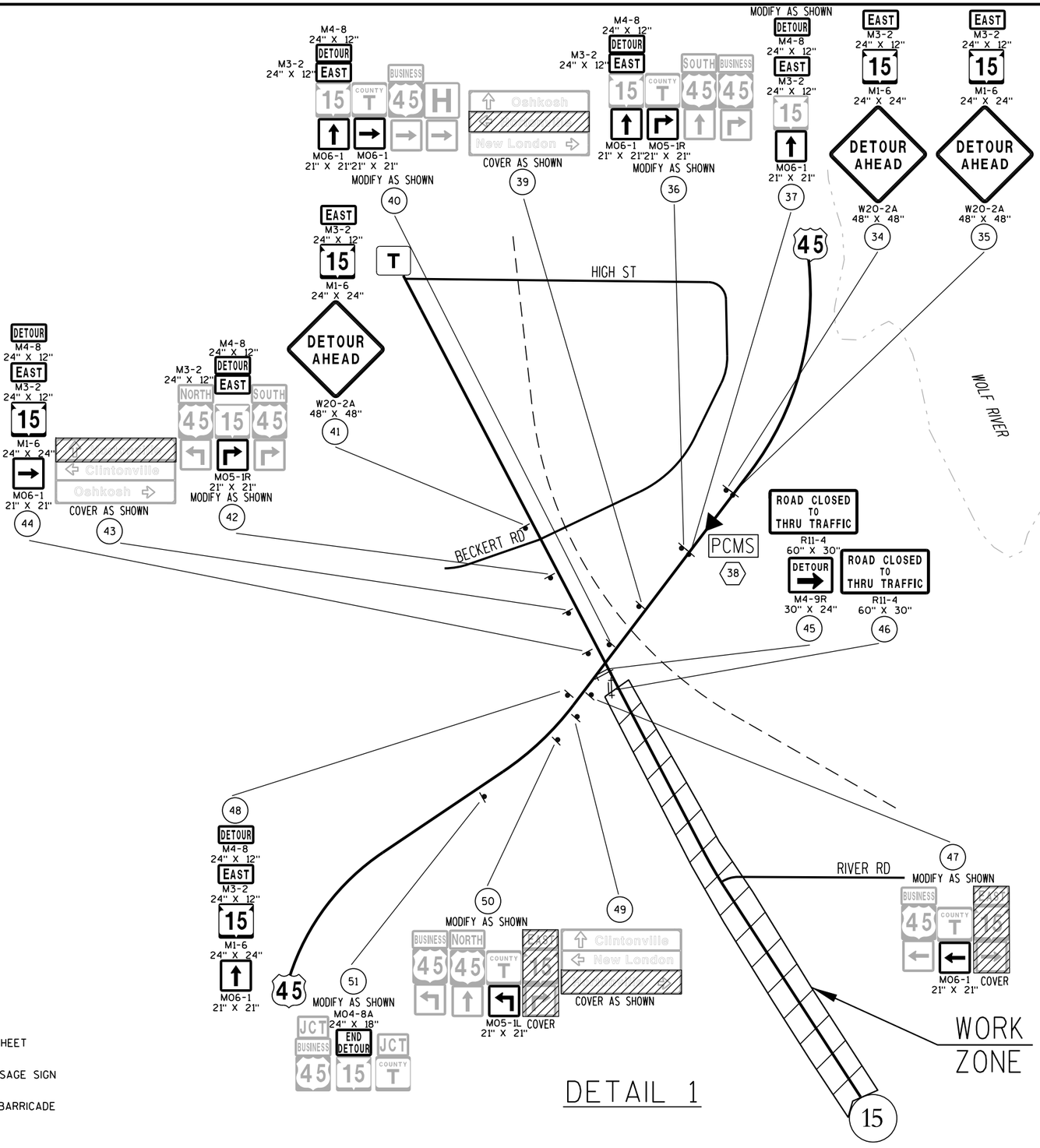
- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN



SHEET 1 OF 3

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	DETOUR OVERVIEW	SHEET	E



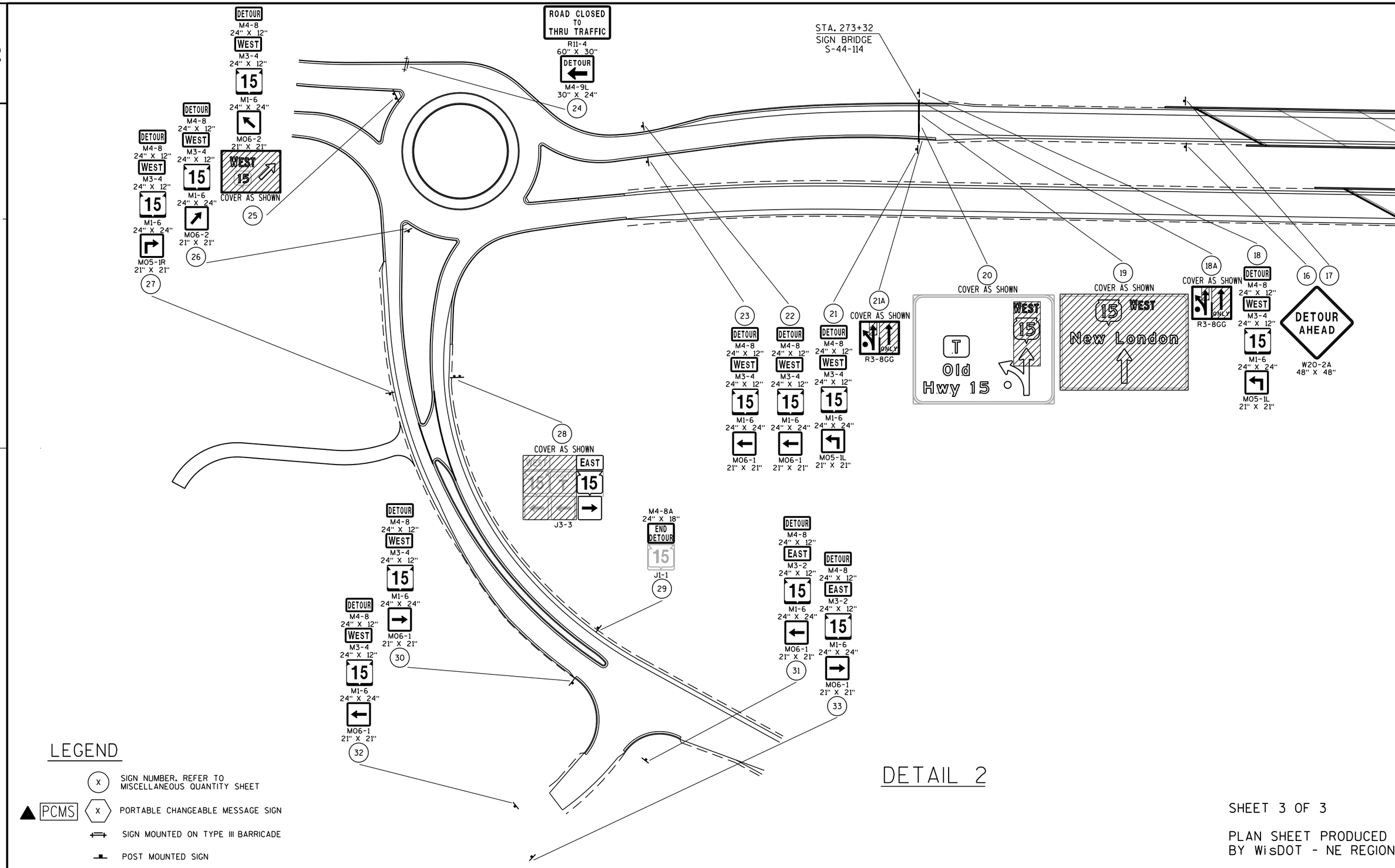
LEGEND

- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

SHEET 2 OF 3

PLAN SHEET PRODUCED BY WisDOT - NE REGION

PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	DETOUR SIGNING DETAIL	SHEET	E



LEGEND

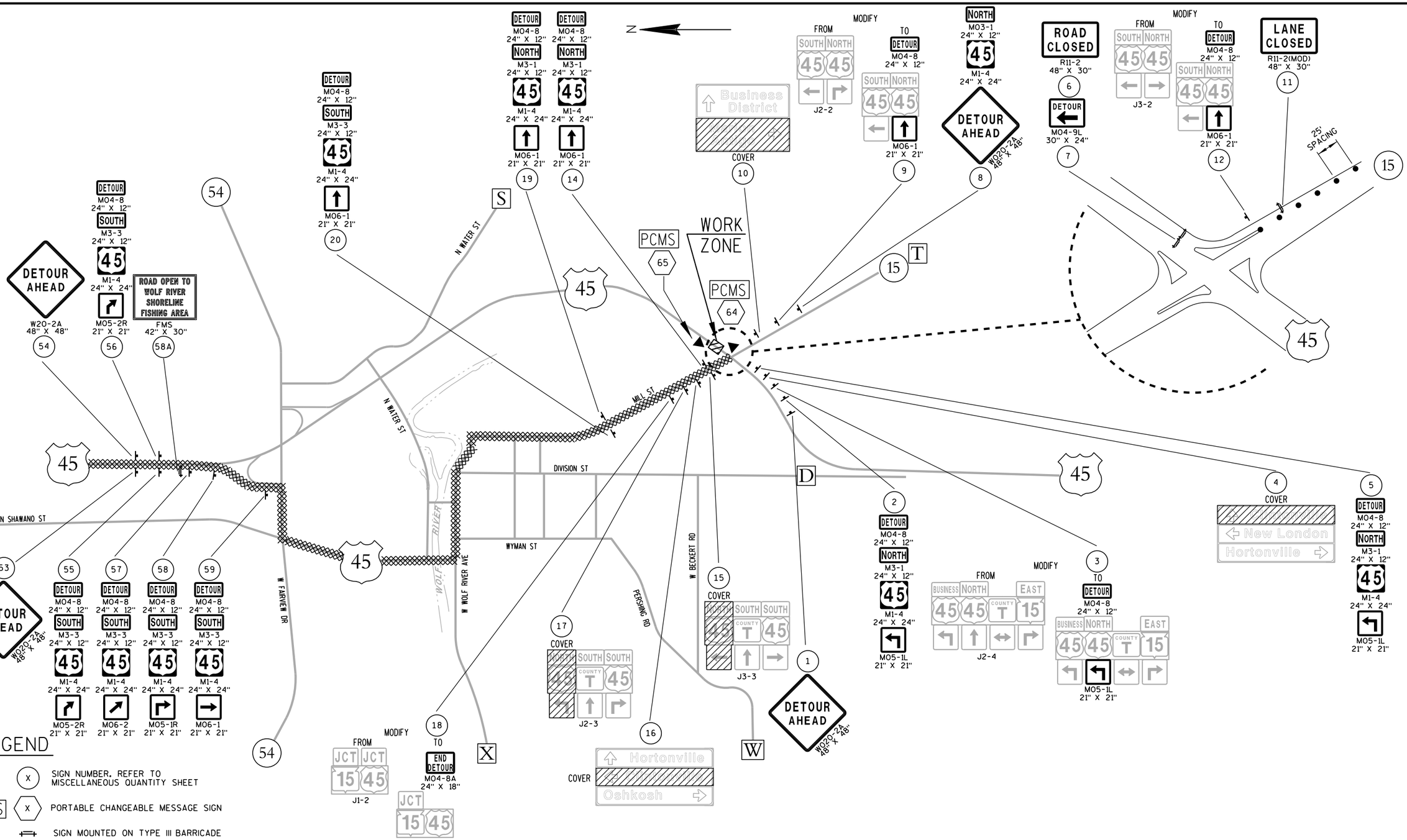
- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

DETAIL 2

SHEET 3 OF 3

PLAN SHEET PRODUCED BY WisDOT - NE REGION

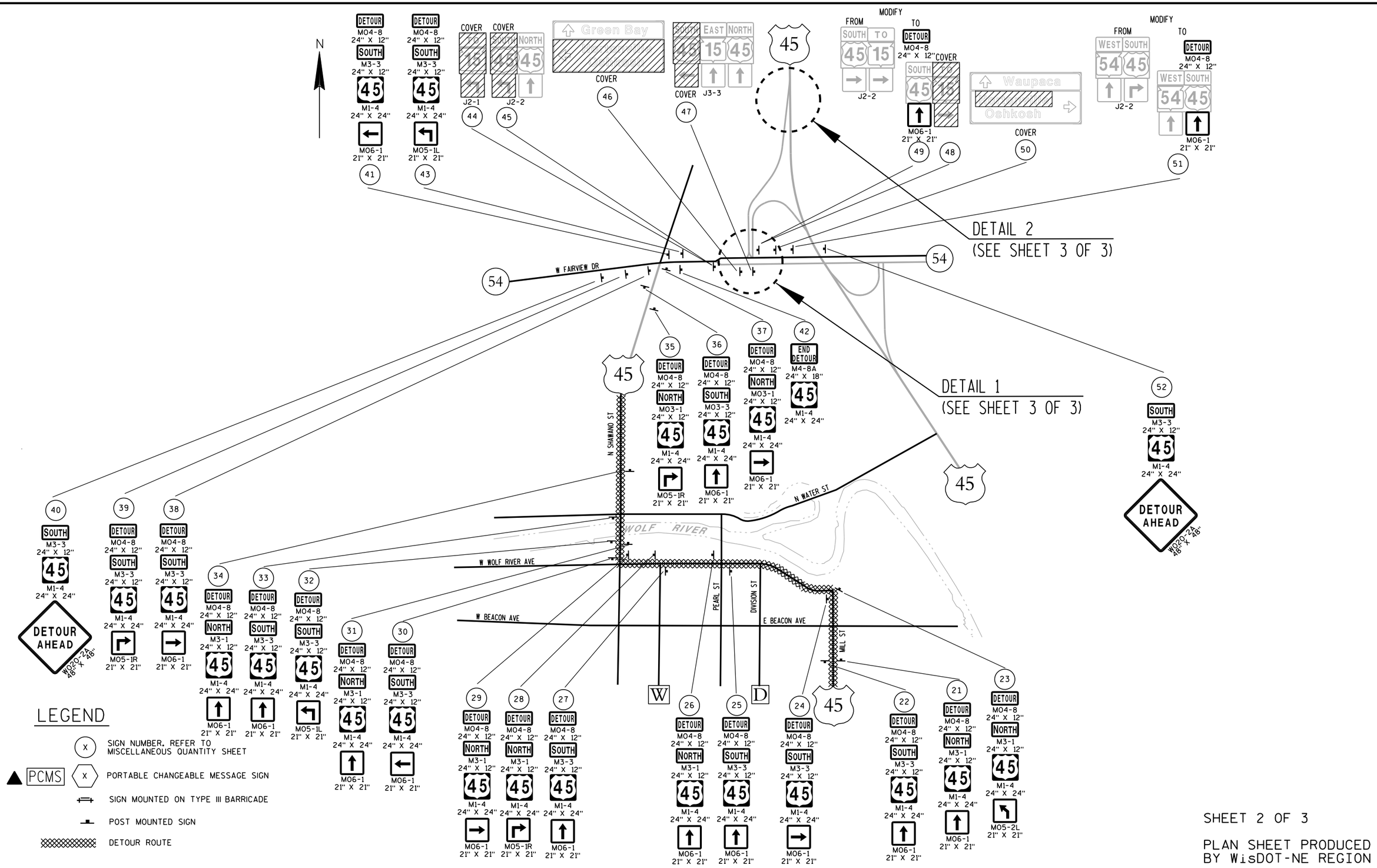
PROJECT NO: 1146-75-73	HWY: STH 15	COUNTY: OUTAGAMIE	DETOUR SIGNING DETAIL	SHEET	E



SHEET 1 OF 3

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-00	HWY: STH 15	COUNTY: OUTAGAMIE/WAUPACA	DETOUR SIGNING DETAIL-USH 45	SHEET	E



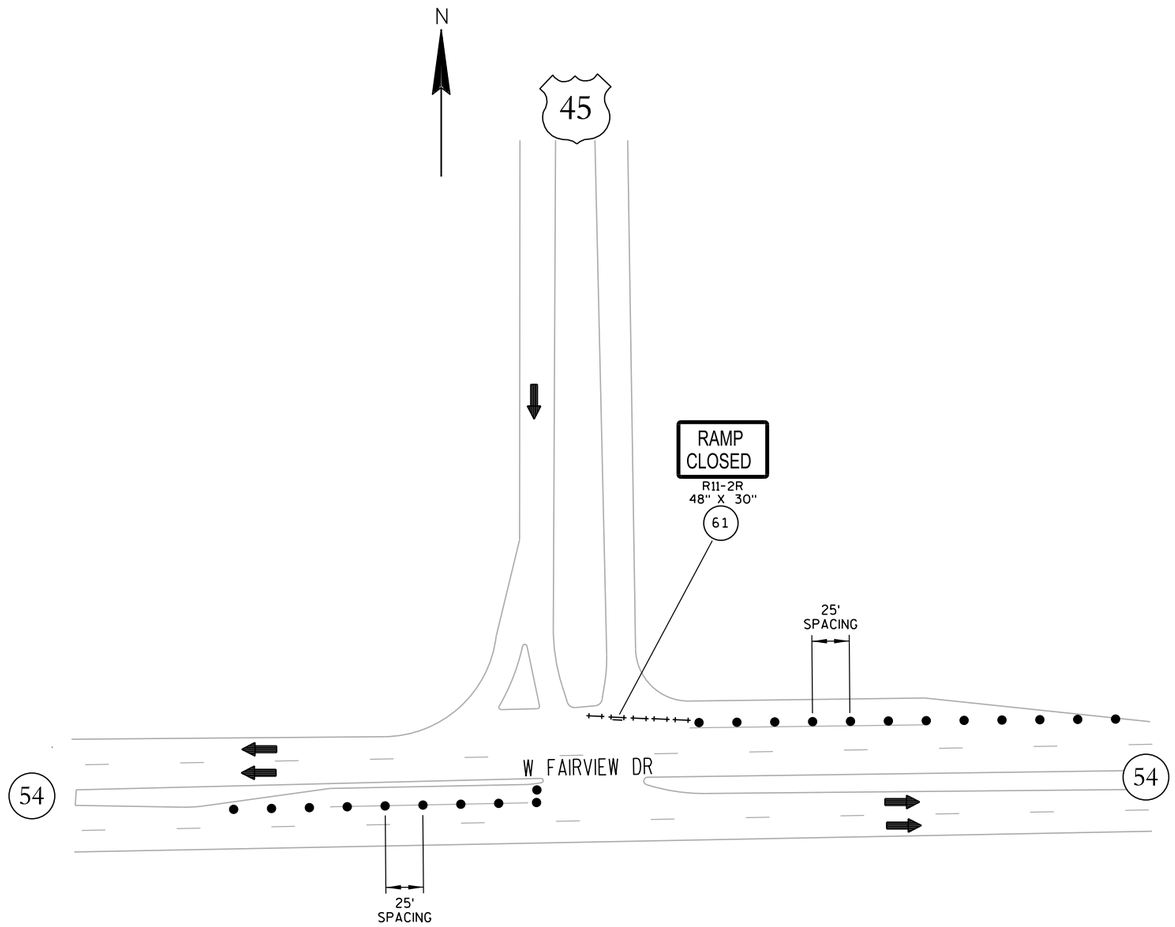
SHEET 2 OF 3

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-00	HWY: STH 15	COUNTY: OUTAGAMIE/WAUPACA	DETOUR SIGNING DETAIL-USH 45	SHEET	E

FILE NAME : N:\spo\traffic\A Work Zone\Detours\Outagamie County\STH 15\15 Major pre 4 lane\hwy 45 rr-xing\027002_dt.dgn PLOT DATE : 10-APR-2019 11:02 PLOT BY : dotj1f PLOT NAME : PLOT SCALE : 200:1

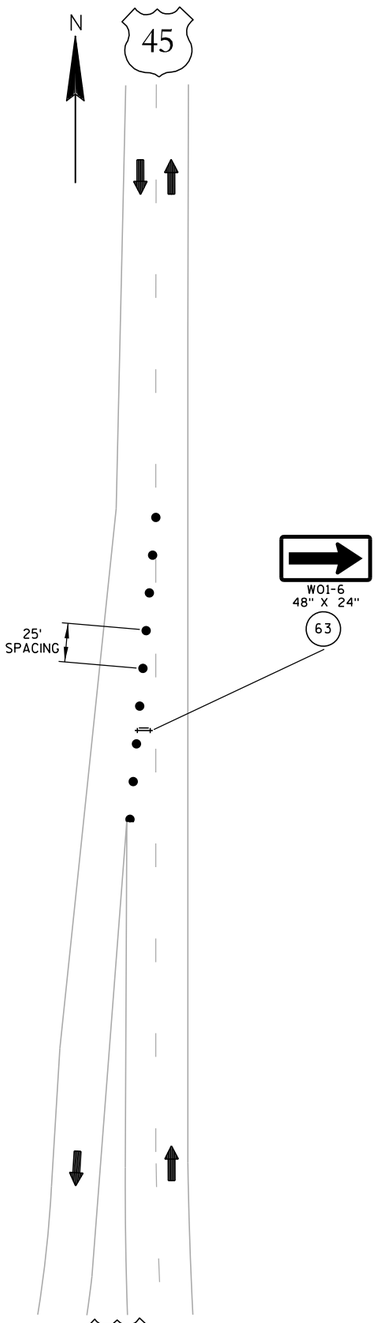
WISDOT/CADDS SHEET 42



LEGEND

- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN
- TRAFFIC CONTROL DRUMS

DETAIL 1



DETAIL 2

SHEET 3 OF 3

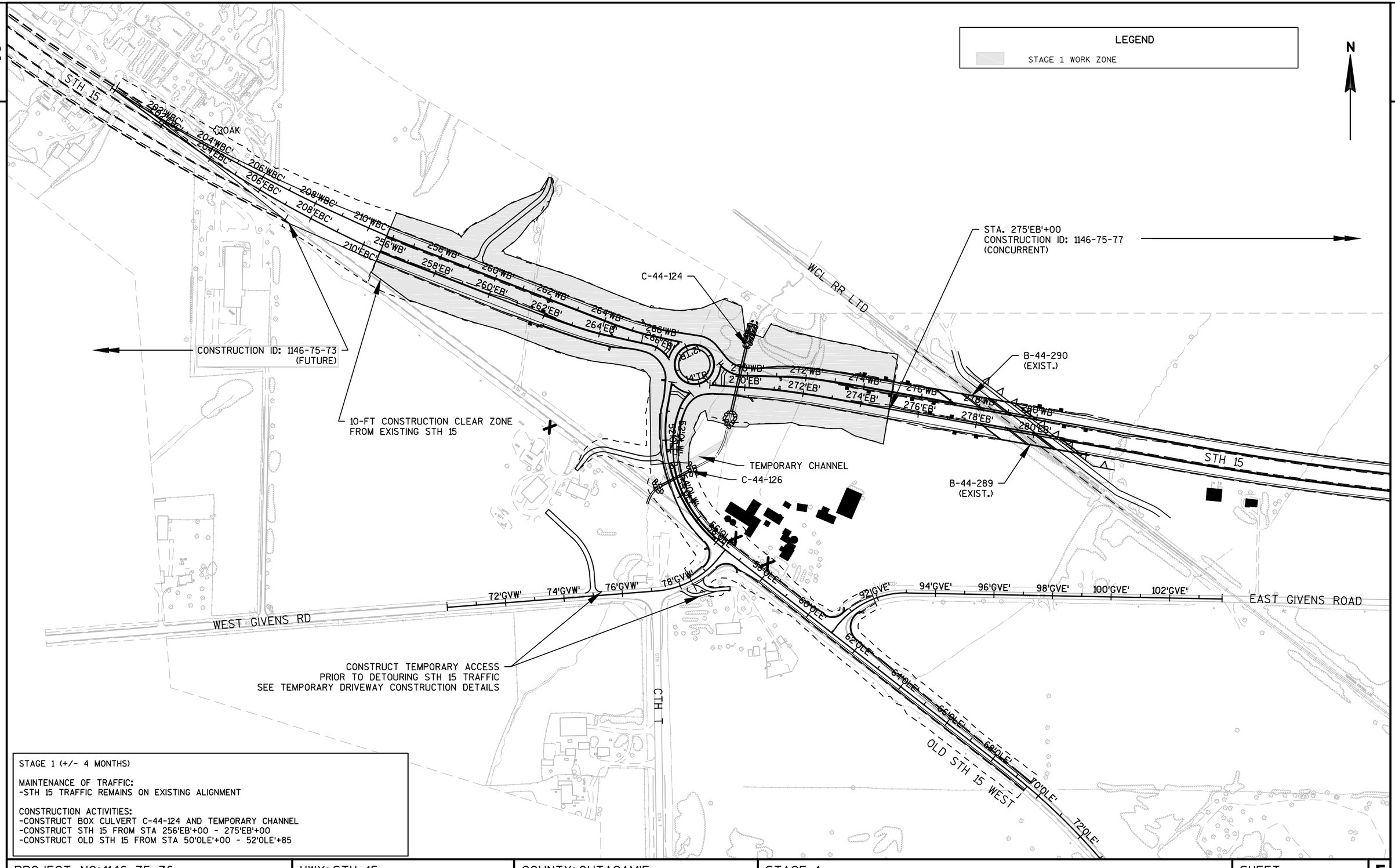
PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-00	HWY: STH 15	COUNTY: OUTAGAMIE/WAUPACA	DETOUR SIGNING DETAILS-USH 45	SHEET	E

FILE NAME : N:\spo\traffic\A Work Zone\Detours\Outagamie County\STH 15\15 Major pre 4 lane\hwy 45 rr-xing\027003_dt.dgn PLOT DATE : 10-APR-2019 11:02 PLOT BY : dotj1f PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

ATTACHMENT 4



STAGE 1 (+/- 4 MONTHS)

MAINTENANCE OF TRAFFIC:
-STH 15 TRAFFIC REMAINS ON EXISTING ALIGNMENT

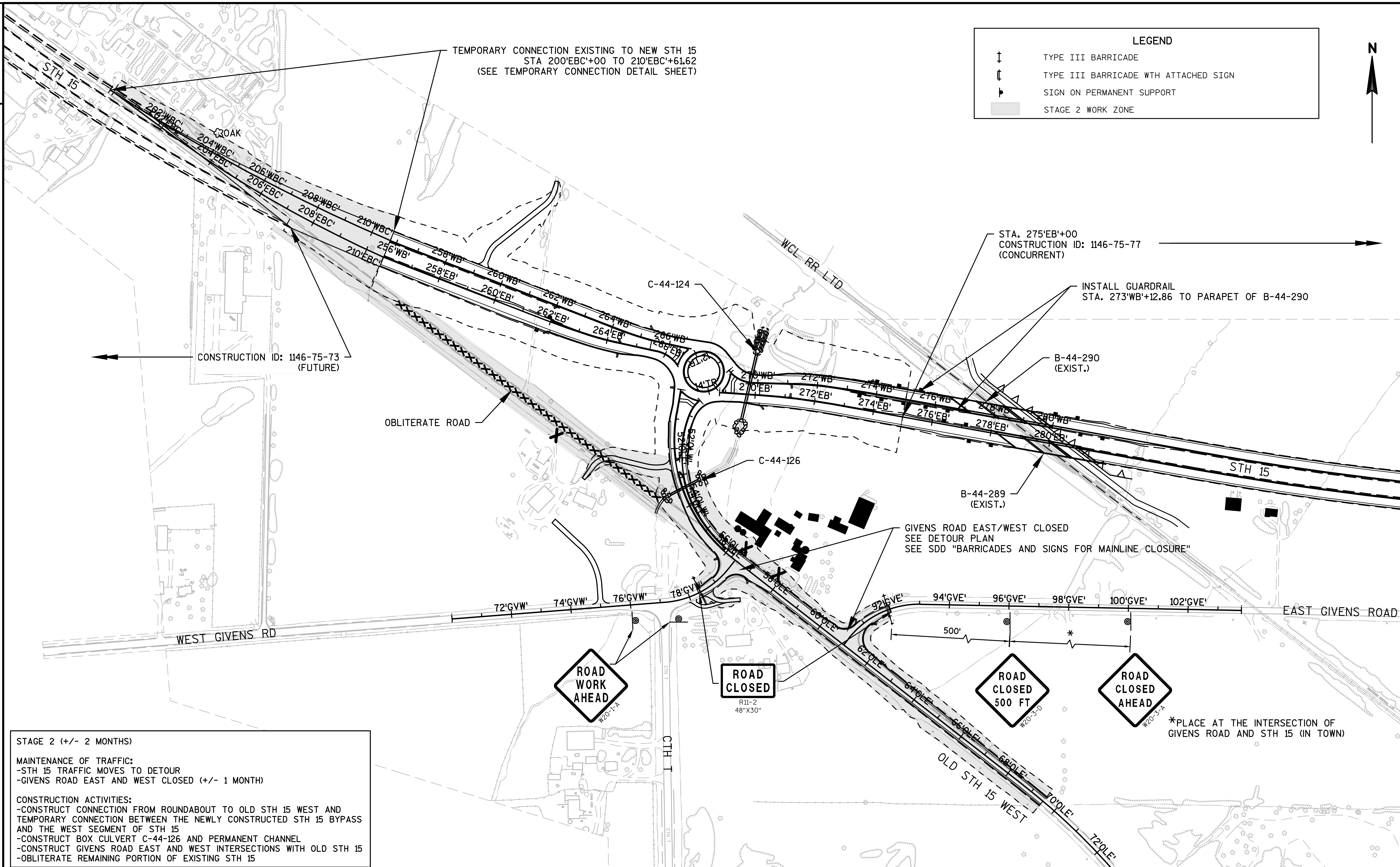
CONSTRUCTION ACTIVITIES:
-CONSTRUCT BOX CULVERT C-44-124 AND TEMPORARY CHANNEL
-CONSTRUCT STH 15 FROM STA 256'EB'+00 - 275'EB'+00
-CONSTRUCT OLD STH 15 FROM STA 50'OLE'+00 - 52'OLE'+85

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467576\11467576_026002-S.DWG
LAYOUT NAME - 026002_S

PLOT DATE : 4/29/2019 1:43 PM PLOT BY : SIMMONS, MASON A PLOT NAME : PLOT SCALE : 1 IN:300 FT

2



STAGE 2 (+/- 2 MONTHS)

MAINTENANCE OF TRAFFIC:
-STH 15 TRAFFIC MOVES TO DETOUR
-GIVENS ROAD EAST AND WEST CLOSED (+/- 1 MONTH)

CONSTRUCTION ACTIVITIES:
-CONSTRUCT CONNECTION FROM ROUNDABOUT TO OLD STH 15 WEST AND TEMPORARY CONNECTION BETWEEN THE NEWLY CONSTRUCTED STH 15 BYPASS AND THE WEST SEGMENT OF STH 15
-CONSTRUCT BOX CULVERT C-44-126 AND PERMANENT CHANNEL
-CONSTRUCT GIVENS ROAD EAST AND WEST INTERSECTIONS WITH OLD STH 15
-OBLITERATE REMAINING PORTION OF EXISTING STH 15

PROJECT NO:1146-75-76	HWY:STH 15	COUNTY:OUTAGAMIE	STAGE 2	SHEET	E

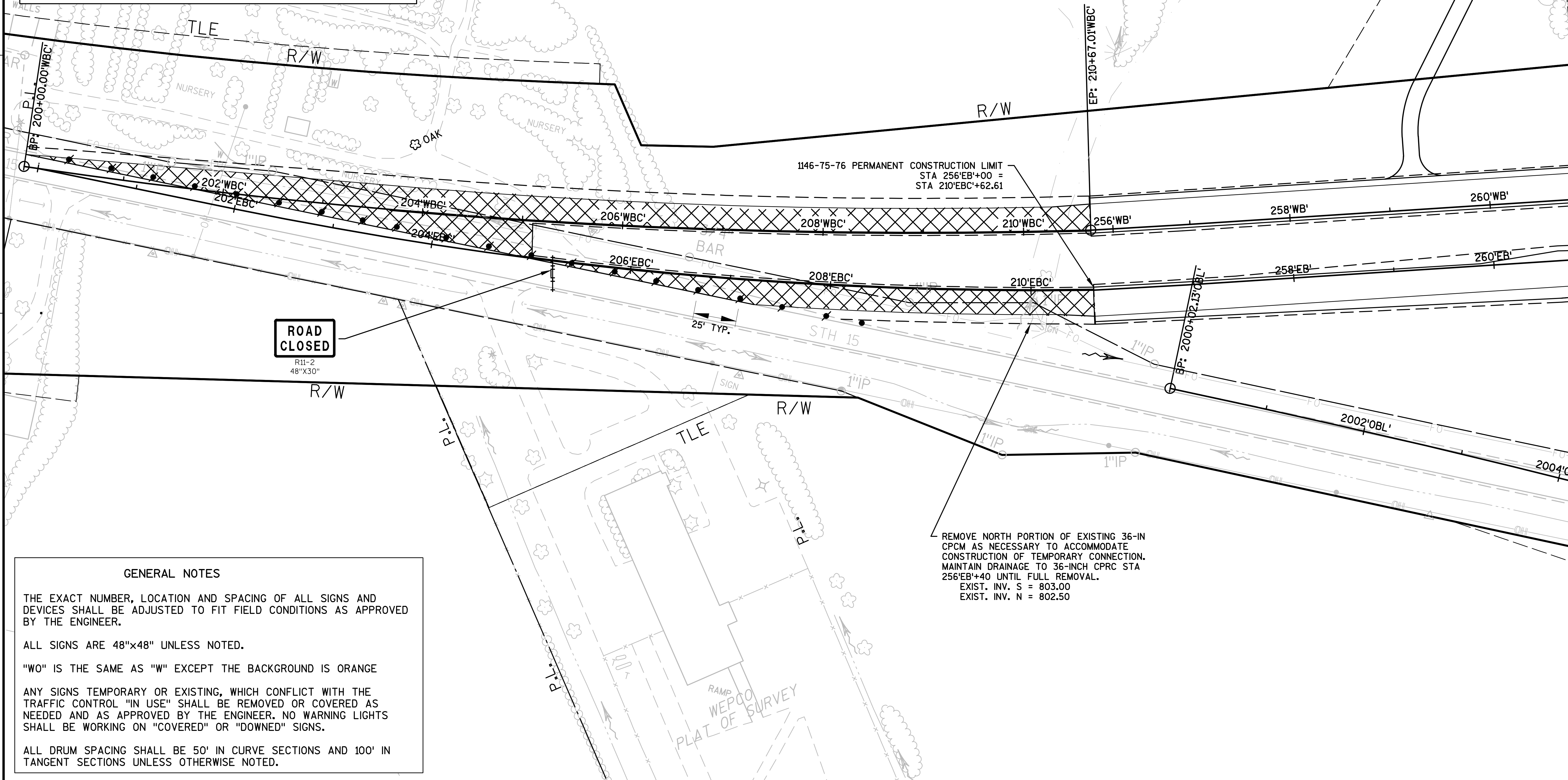
LEGEND

(symbol)	TYPE III BARRICADE
(symbol)	TYPE III BARRICADE WTH ATTACHED SIGN
(symbol)	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
(symbol)	TRAFFIC CONTROL DRUM
(symbol)	TEMPORARY CROSSOVER ASPHALTIC PAVEMENT
(symbol)	SIGN ON PERMANENT SUPPORT
(symbol)	SIGN ON TEMPORARY SUPPORT

STAGE 2 (+/- 2 MONTHS)

MAINTENANCE OF TRAFFIC:
-STH 15 TRAFFIC MOVES TO DETOUR
-GIVENS ROAD EAST AND WEST CLOSED
CONSTRUCTION ACTIVITIES:
-CONSTRUCT CONNECTION FROM ROUNDABOUT TO OLD STH 15 WEST AND TEMPORARY CONNECTION BETWEEN THE NEWLY CONSTRUCTED STH 15 BYPASS AND THE WEST SEGMENT OF STH 15
-CONSTRUCT GIVENS ROAD EAST AND WEST INTERSECTIONS WITH OLD STH 15

SEE PAVEMENT MARKING - TEMPORARY CONNECTION FOR SIGNING AND MARKING.



GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48"x48" UNLESS NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

ALL DRUM SPACING SHALL BE 50' IN CURVE SECTIONS AND 100' IN TANGENT SECTIONS UNLESS OTHERWISE NOTED.

2

DETAIL 6
(SEE SHEET 6 OF 6)

COVER AS SHOWN

15 OO

Northland Ave

1 Mile

LEGEND

- X — SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS X — PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

WORK ZONE

PCMS 84

ROAD CLOSED
2.1 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"
85

ROAD CLOSED
5.8 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"
86

15
M1-6
36" X 36"

DETOUR AHEAD
W20-2A
48" X 48"
2

15
M1-6
36" X 36"

DETOUR AHEAD
W20-2A
48" X 48"
3

TO
M4-5
24" X 12"
15
M1-6
24" X 24"
M06-1
21" X 21"
64

TO
M4-5
36" X 18"
15
M1-6
36" X 36"
M06-1
30" X 30"
62

TO
M4-5
24" X 12"
15
M1-6
24" X 24"
M06-1
21" X 21"
63

DETAIL 2
(SEE SHEET 2 OF 6)

DETAIL 3
(SEE SHEET 3 OF 6)

DETAIL 4
(SEE SHEET 4 OF 6)

DETAIL 5
(SEE SHEET 5 OF 6)

COVER AS SHOWN

15 OO TO A

Northland Ave

1/4 MILE

EXIT ONLY

TO M4-5 36" X 18" 15 M1-6 36" X 36" M06-1 30" X 30" — 27, 28, 29, 30, 31, 32, 37, 38, 39, 40, 41

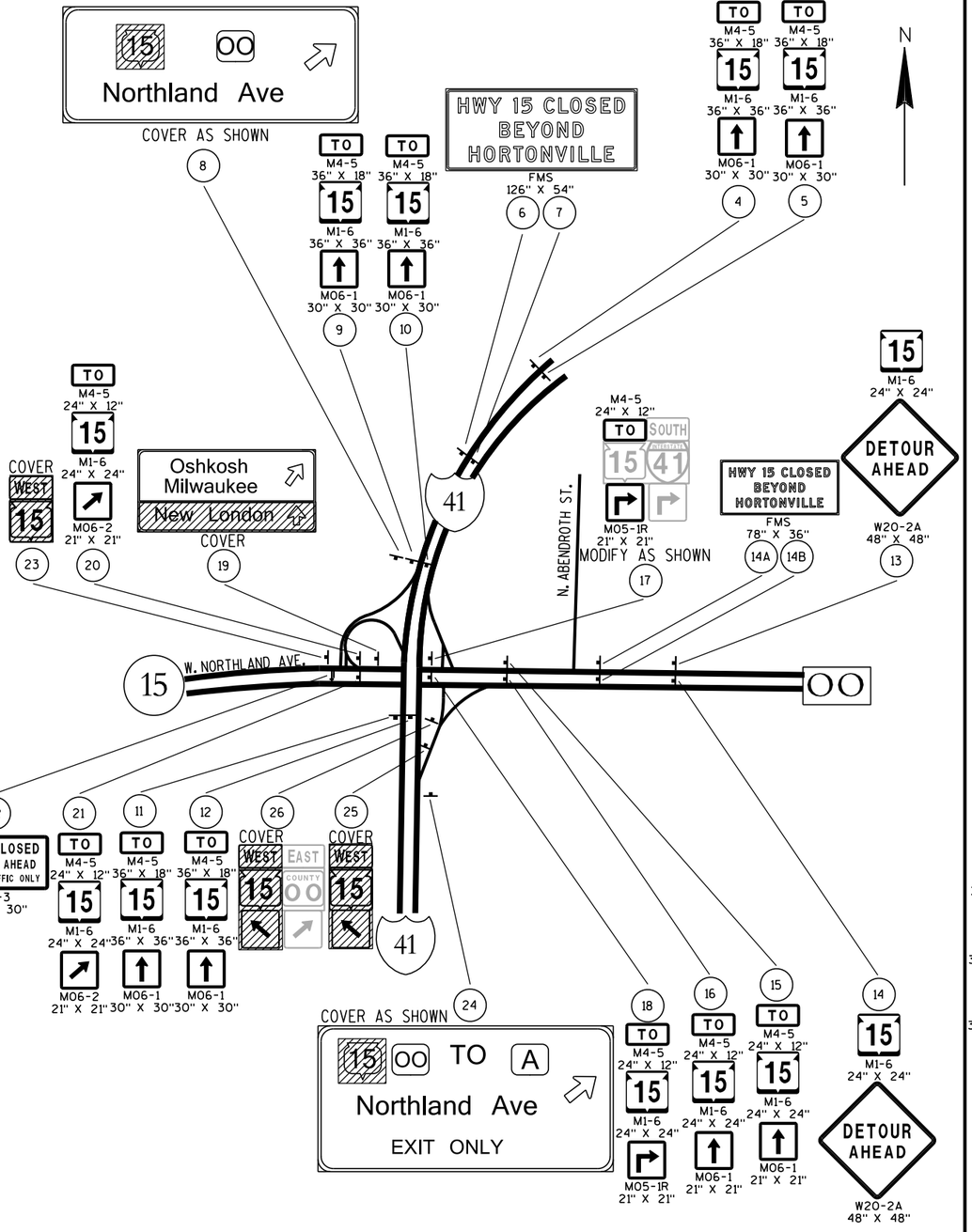
TO M4-5 36" X 18" 15 M1-6 36" X 36" M05-2R 30" X 30" — 32, 38

SHEET 1 OF 4

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	DETOUR OVERVIEW	SHEET	E

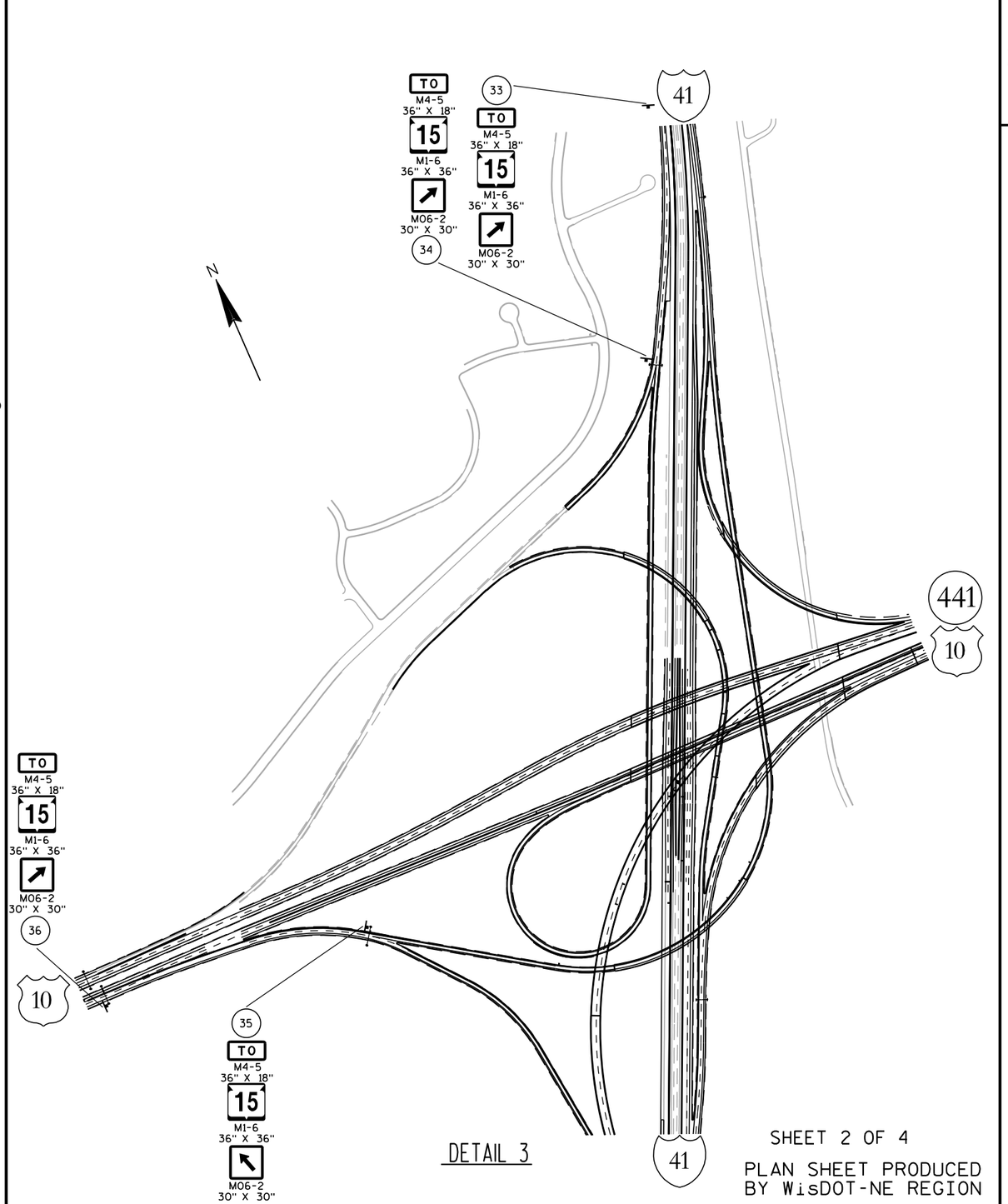
FILE NAME : N:\spo\traffic\A Work Zone\Detours\Outagamie County\STH 15\West Segment\1146-75-76\027001_dt.dgn PLOT BY : dotj1f PLOT DATE : 18-FEB-2016 08:29 PLOT SCALE : 9000:1



LEGEND

- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

DETAIL 2



DETAIL 3

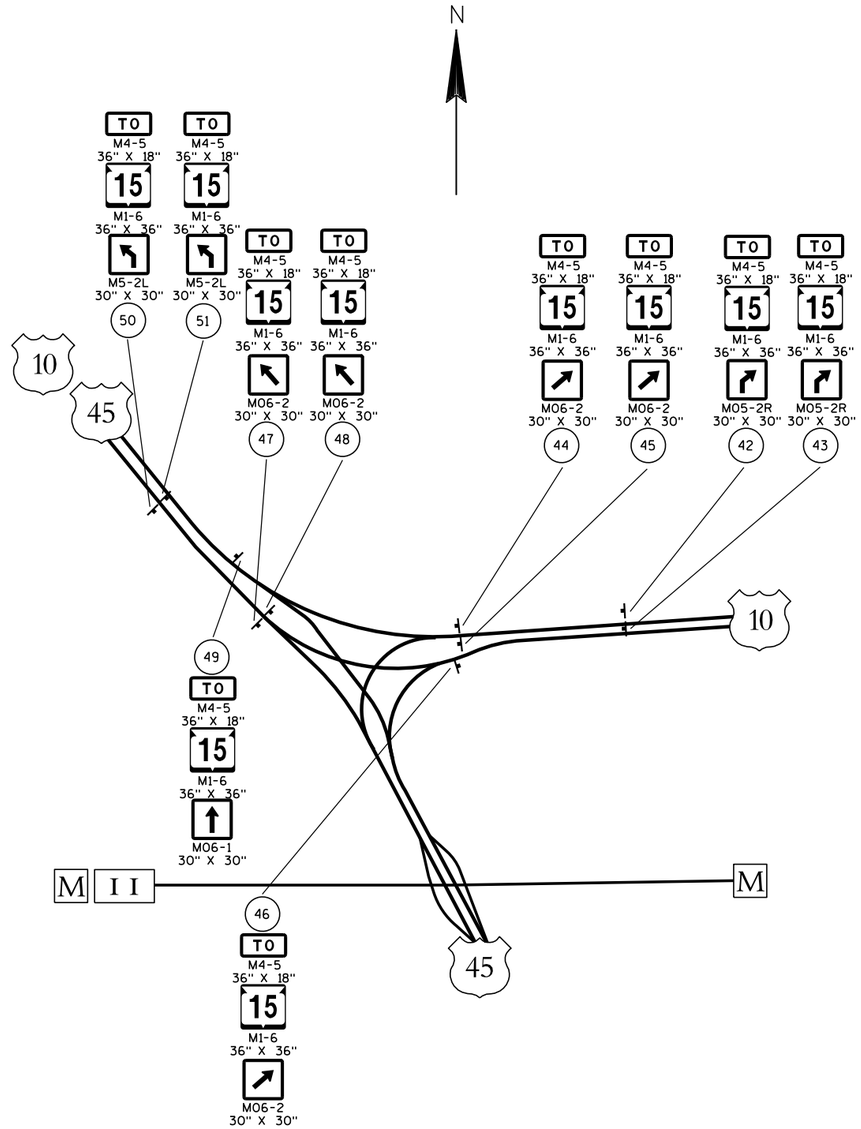
SHEET 2 OF 4

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	DETOUR SIGNING DETAIL	SHEET	E

FILE NAME : N:\spo\traffic\A Work Zone\Detours\Outagamie County\STH 15\West Segment\027002_dt.dgn PLOT DATE : 26-JAN-2016 14:38 PLOT BY : dotjlf PLOT NAME : PLOT SCALE : 12000:1

WISDOT/CADDS SHEET 42



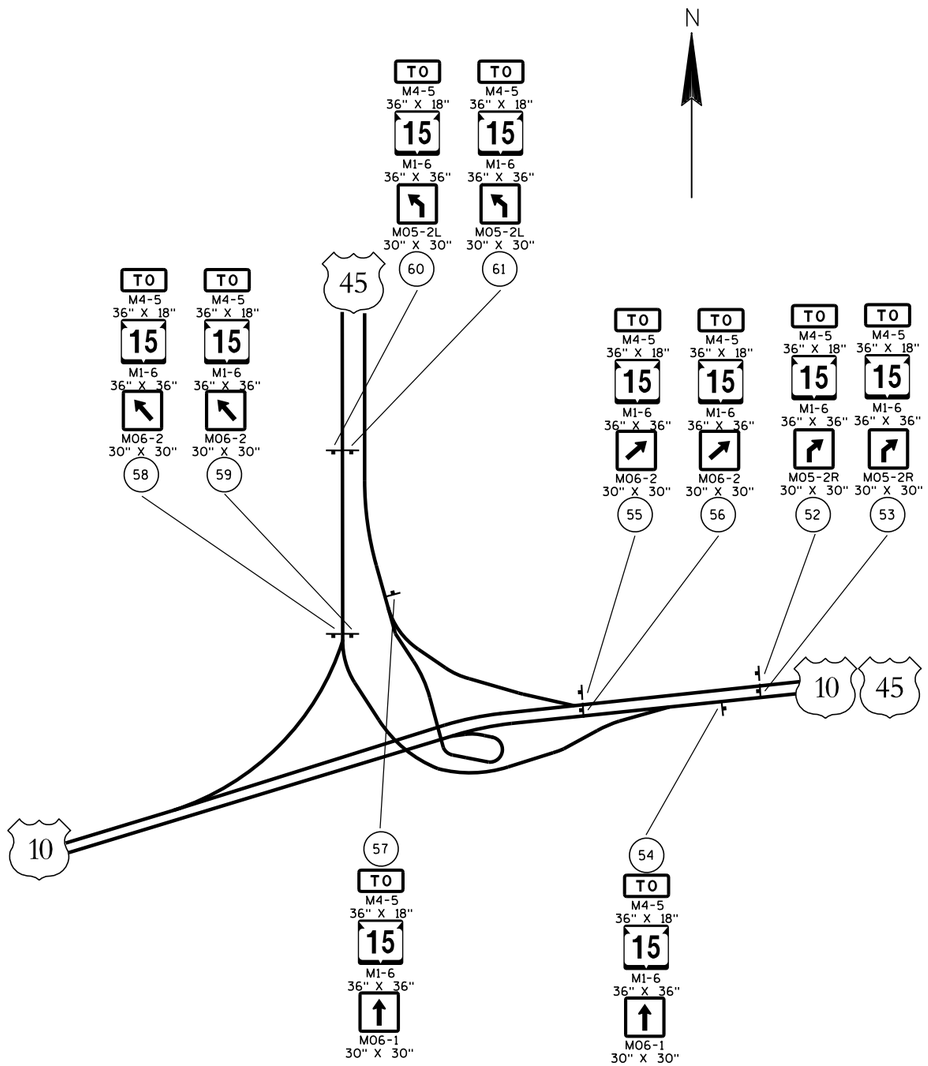
LEGEND

(X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET

SIGN MOUNTED ON TYPE III BARRICADE

POST MOUNTED SIGN

DETAIL 4



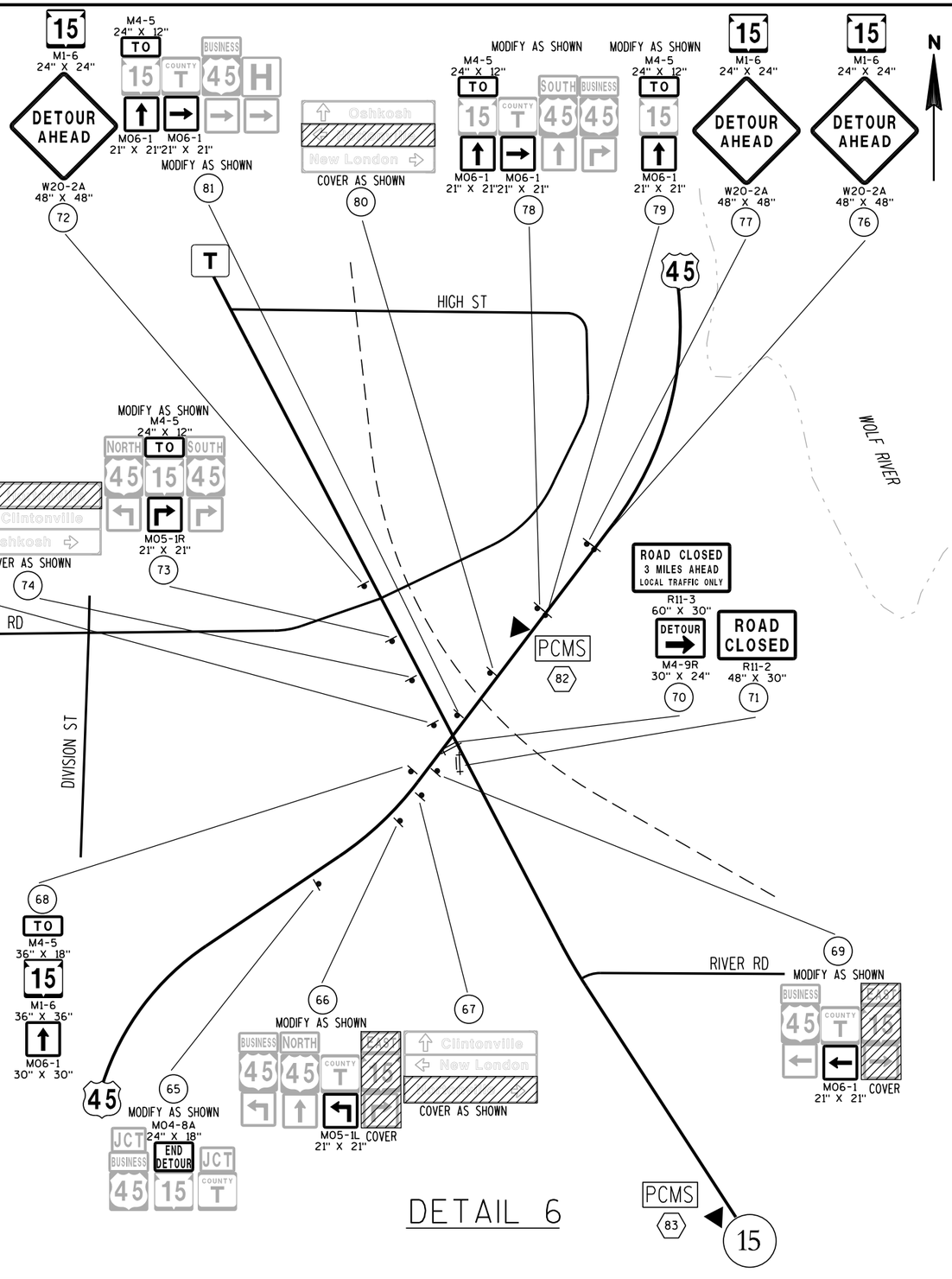
DETAIL 5

SHEET 3 OF 4

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	DETOUR SIGNING DETAIL	SHEET	E

FILE NAME : N:\spo\traffic\A Work Zone\Detours\Outagamie County\STH 15\West Segment\027003_dt.dgn PLOT DATE : 21-JAN-2016 09:16 PLOT BY : dotjlf PLOT NAME : PLOT SCALE : 12000:1



LEGEND

- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

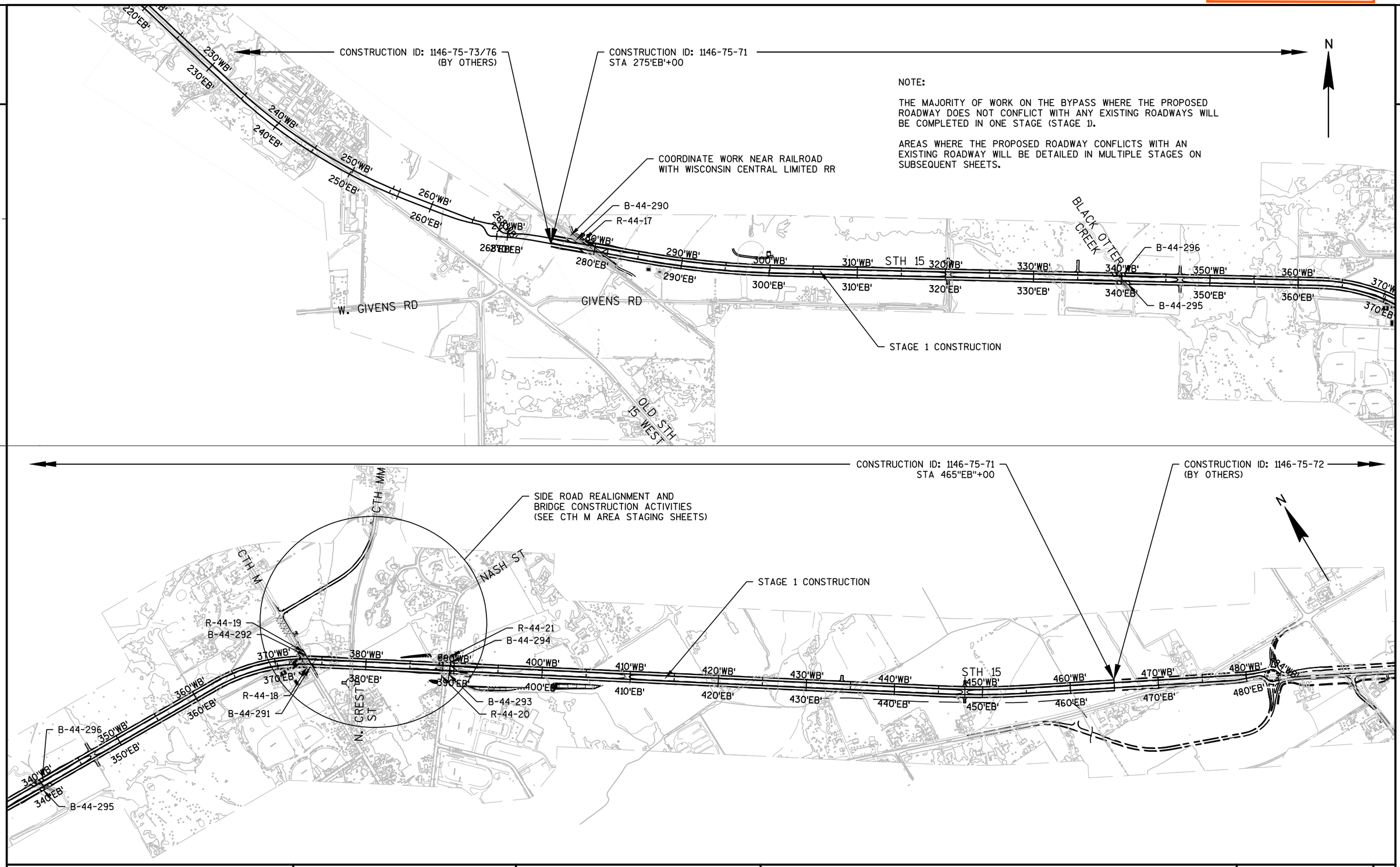
DETAIL 6

SHEET 4 OF 4

PLAN SHEET PRODUCED BY WisDOT - NE REGION

PROJECT NO: 1146-75-76	HWY: STH 15	COUNTY: OUTAGAMIE	DETOUR SIGNING DETAIL	SHEET	E

ATTACHMENT 5



PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - PROJECT OVERVIEW	SHEET E

PRE_41

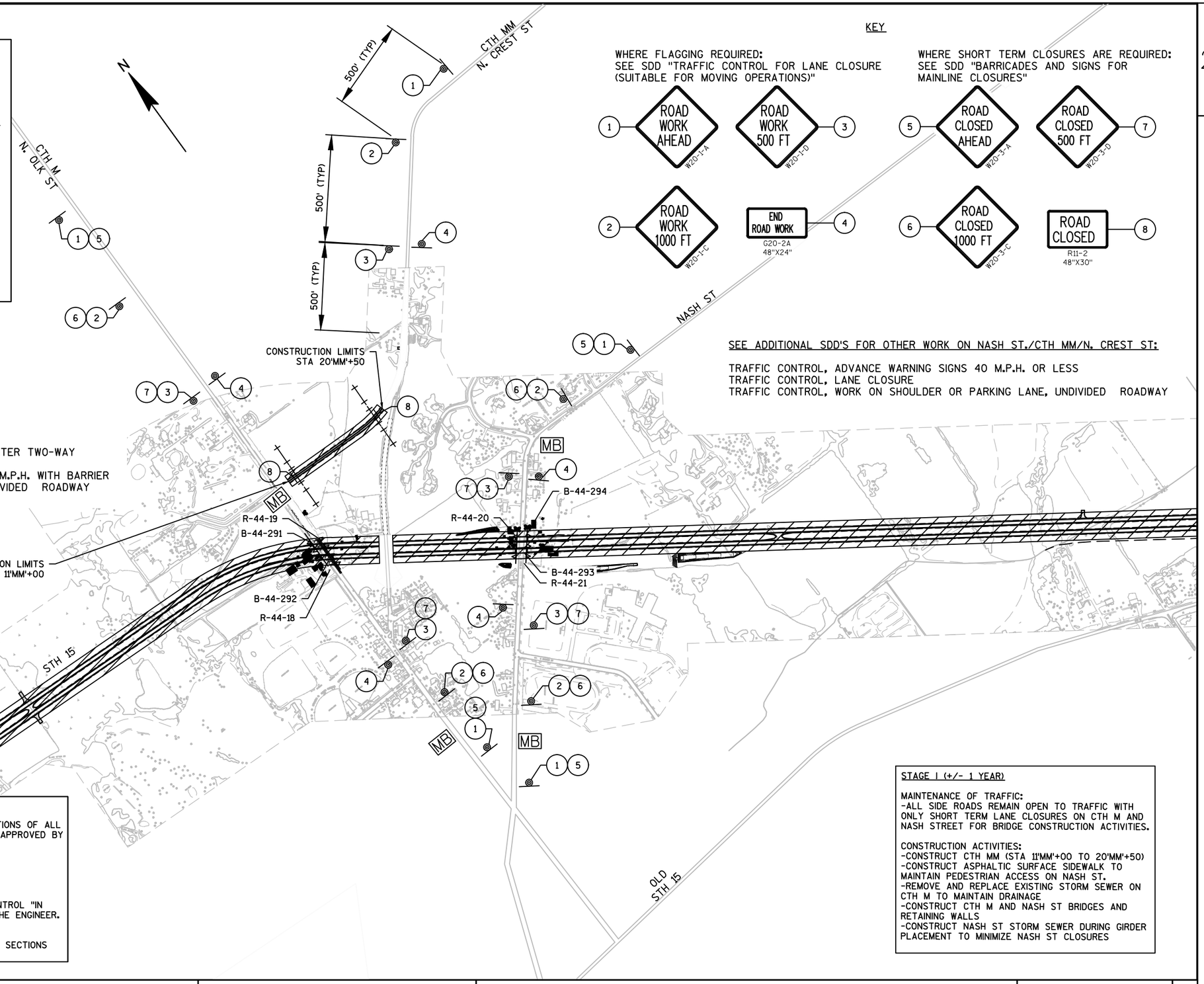
FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_026001-S.DWG
11467571_PLAN - 026001-S

PLOT DATE : 2/27/2017 12:10 PM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : PLOT SCALE : 1 IN:1000 FT

WISDOT/CADDS SHEET 42

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD



KEY

WHERE FLAGGING REQUIRED:
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)"

WHERE SHORT TERM CLOSURES ARE REQUIRED:
SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES"

SEE ADDITIONAL SDD'S FOR OTHER WORK ON NASH ST./CTH MM/N. CREST ST:

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
TRAFFIC CONTROL, LANE CLOSURE
TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

SEE ADDITIONAL SDD'S FOR OTHER WORK ON CTH M:

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER
TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS (AND THE LOCATIONS OF ALL FLAGGERS) AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48"X48" UNLESS NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

ALL DRUM SPACING SHALL BE 50' IN CURVE SECTIONS AND 100' IN TANGENT SECTIONS UNLESS OTHERWISE NOTED.

STAGE 1 (+/- 1 YEAR)

MAINTENANCE OF TRAFFIC:
-ALL SIDE ROADS REMAIN OPEN TO TRAFFIC WITH ONLY SHORT TERM LANE CLOSURES ON CTH M AND NASH STREET FOR BRIDGE CONSTRUCTION ACTIVITIES.

CONSTRUCTION ACTIVITIES:
-CONSTRUCT CTH MM (STA 11'MM'+00 TO 20'MM'+50)
-CONSTRUCT ASPHALTIC SURFACE SIDEWALK TO MAINTAIN PEDESTRIAN ACCESS ON NASH ST.
-REMOVE AND REPLACE EXISTING STORM SEWER ON CTH M TO MAINTAIN DRAINAGE
-CONSTRUCT CTH M AND NASH ST BRIDGES AND RETAINING WALLS
-CONSTRUCT NASH ST STORM SEWER DURING GIRDER PLACEMENT TO MINIMIZE NASH ST CLOSURES

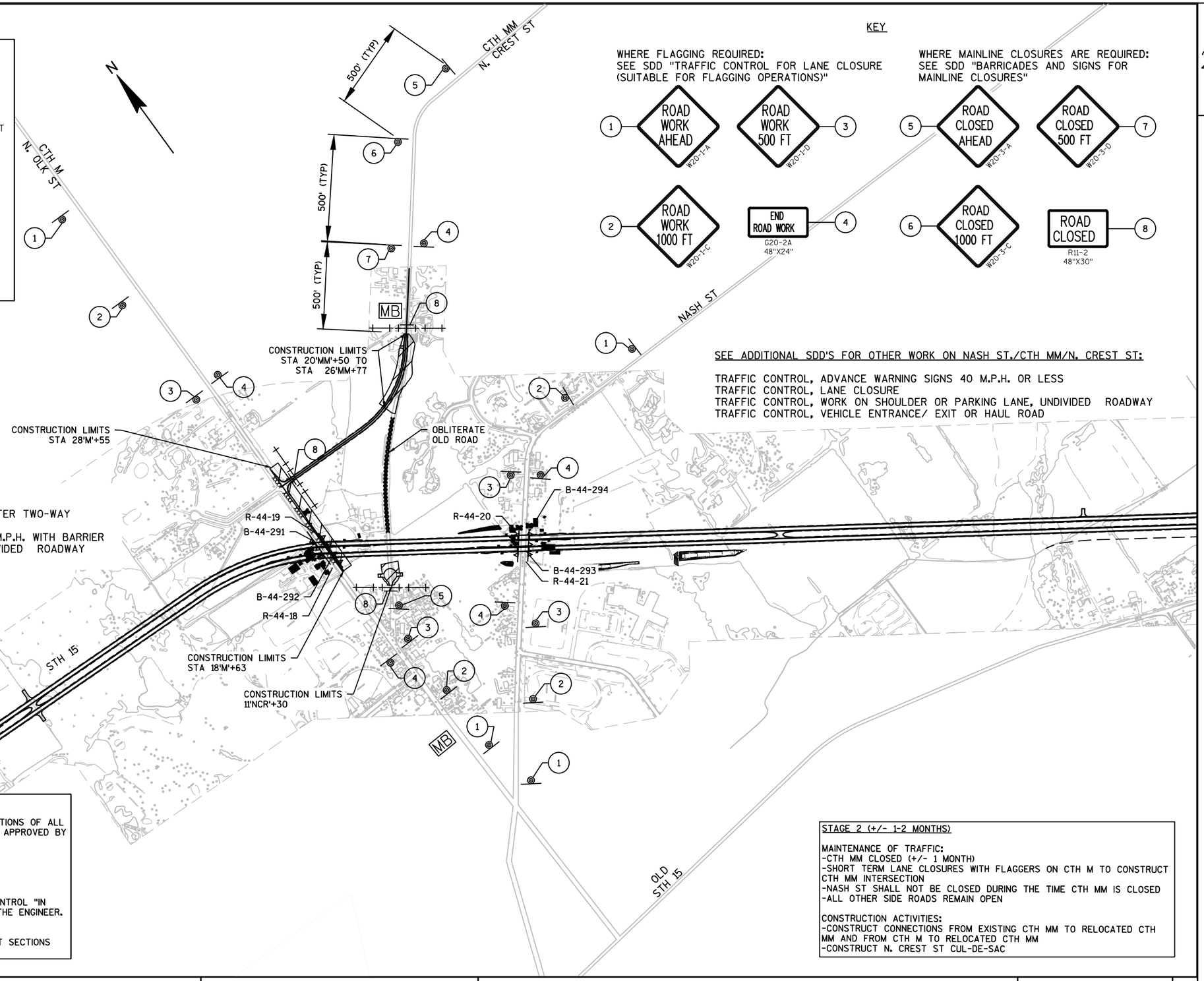
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - CTH M AREA - STAGE 1	SHEET E

PRE_42

FILE NAME : N:\PDS\C3D\11467571\SHEETSPLAN\11467571\11467571_026005-S.DWG
11467571_PLAN - 026005-S
PLOT DATE : 3/9/2017 1:19 PM PLOT BY : SPIELMACHER, JOHN P PLOT NAME : ---------- PLOT SCALE : 1 IN:800 FT
WISDOT/CADDS SHEET 42

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD



KEY

WHERE FLAGGING REQUIRED:
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR FLAGGING OPERATIONS)"

WHERE MAINLINE CLOSURES ARE REQUIRED:
SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES"

SEE ADDITIONAL SDD'S FOR OTHER WORK ON NASH ST./CTH MM/N. CREST ST:

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
TRAFFIC CONTROL, LANE CLOSURE
TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
TRAFFIC CONTROL, VEHICLE ENTRANCE/ EXIT OR HAUL ROAD

SEE ADDITIONAL SDD'S FOR OTHER WORK ON CTH M:

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER
TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS (AND THE LOCATIONS OF ALL FLAGGERS) AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48"X48" UNLESS NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IN ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

ALL DRUM SPACING SHALL BE 50' IN CURVE SECTIONS AND 100' IN TANGENT SECTIONS UNLESS OTHERWISE NOTED.

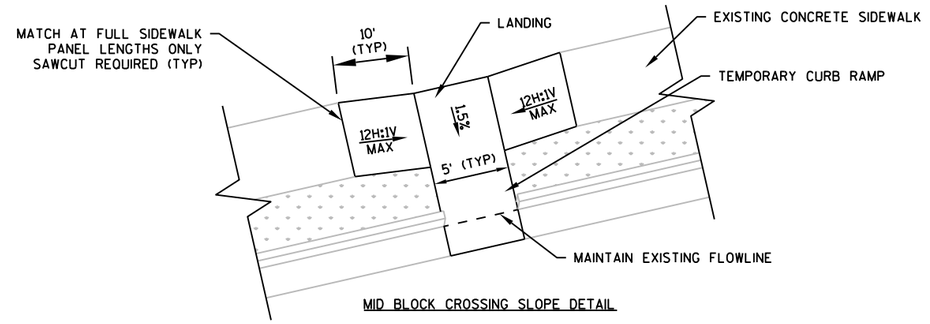
STAGE 2 (+/- 1-2 MONTHS)

MAINTENANCE OF TRAFFIC:
-CTH MM CLOSED (+/- 1 MONTH)
-SHORT TERM LANE CLOSURES WITH FLAGGERS ON CTH M TO CONSTRUCT CTH MM INTERSECTION
-NASH ST SHALL NOT BE CLOSED DURING THE TIME CTH MM IS CLOSED
-ALL OTHER SIDE ROADS REMAIN OPEN

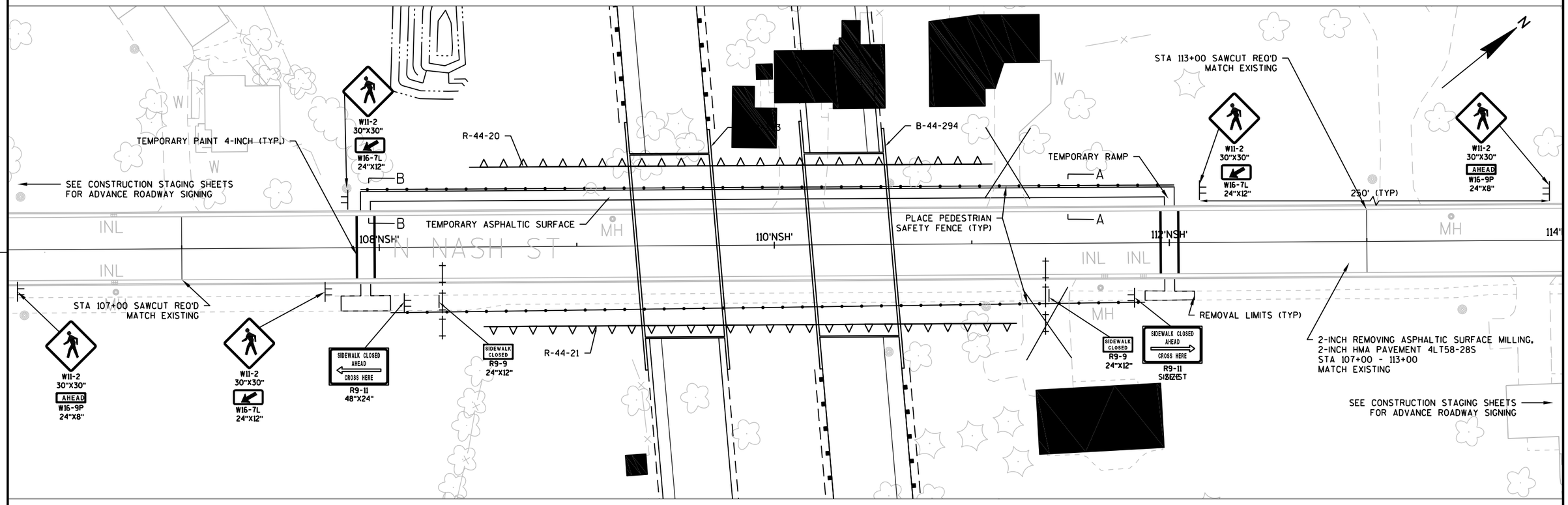
CONSTRUCTION ACTIVITIES:
-CONSTRUCT CONNECTIONS FROM EXISTING CTH MM TO RELOCATED CTH MM AND FROM CTH M TO RELOCATED CTH MM
-CONSTRUCT N. CREST ST CUL-DE-SAC

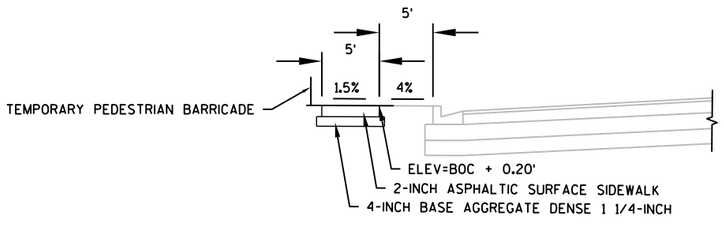
PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - CTH M AREA - STAGE 2	SHEET E

PRE_43

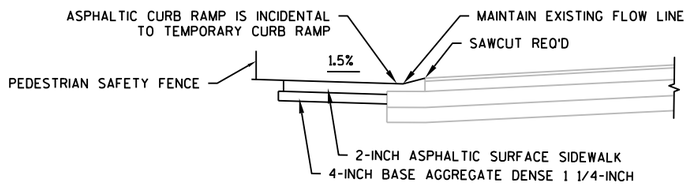


MID BLOCK CROSSING SLOPE DETAIL





SECTION A-A



SECTION B-B

NOTES:

REMOVE EXISTING CURB & GUTTER AND REPLACE WITH CONCRETE CURB & GUTTER 30-INCH TYPE D

CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE ADJACENT TO TEMPORARY SIDEWALK.

EXACT LOCATION OF TEMPORARY SIDEWALK SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AND AS APPROVED BY THE ENGINEER.

PROJECT NO: 1146-75-71	HWY: STH 15	COUNTY: OUTAGAMIE	TEMPORARY PEDESTRIAN ACCESS - NASH ST	SHEET	E

2

GENERAL NOTES FOR TRAFFIC CONTROL

1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
2. CONFLICTING TRAFFIC SIGNS SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER. (INCIDENTAL TO WORK)
3. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
5. ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.
6. STAGING LIMITS BETWEEN PROPOSED ROADWAYS AND EXISTING ROADWAYS OPEN TO TRAFFIC ASSUMED A MAXIMUM 3:1 SLOPE.
7. TRAFFIC CONTROL DEVICES NOT IN USE SHALL BE LAYED DOWN OR REMOVED. TURNING OF DEVICES TO OBSCURE THE MESSAGE WILL NOT BE ALLOWED.
8. COORDINATE WITH ADJACENT PROJECTS PRIOR TO INSTALLATION OF G20-1 SIGNS.

STANDARD WISDOT

WORK ZONE TRAFFIC CONTROL SYMBOLS

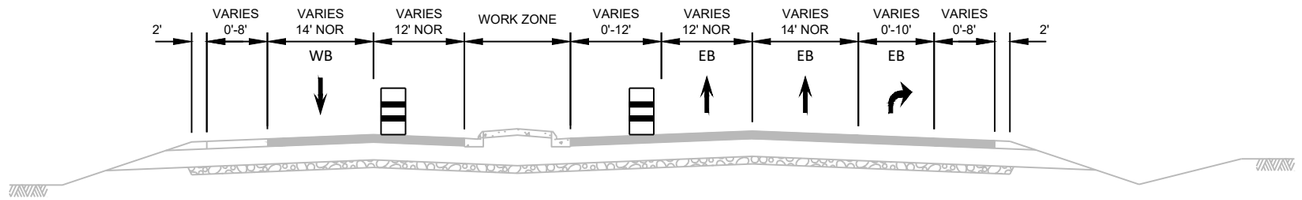
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DIRECTION OF TRAFFIC

NONSTANDARD

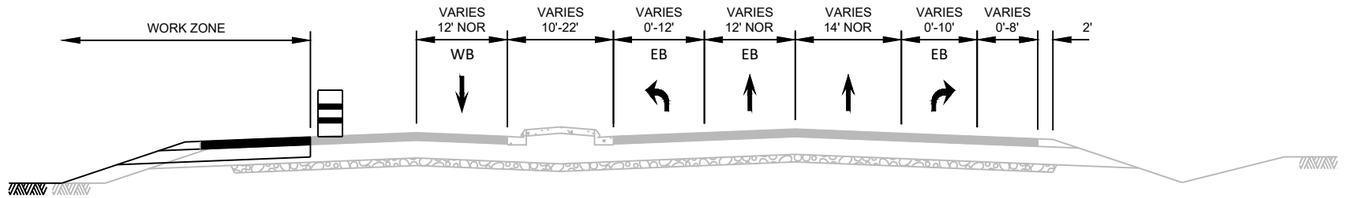
WORK ZONE TRAFFIC CONTROL

Y	CONTINUOUS YELLOW, 4-INCH	TPME - TEMPORARY PAVEMENT MARKING, EPOXY
DY	CONTINUOUS DOUBLE YELLOW, 4-INCH	TPMP - TEMPORARY PAVEMENT MARKING, PAINT
W	CONTINUOUS WHITE, 4-INCH	TPMRT - TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE

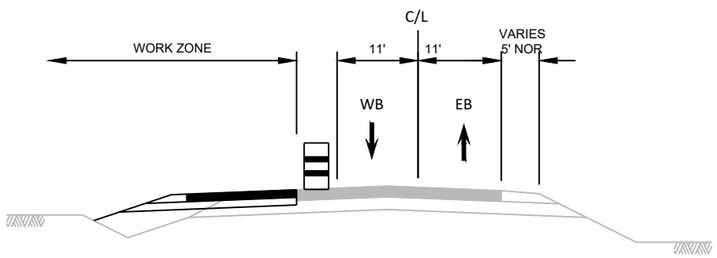
2



TYPICAL SECTION STAGE 1A
STH 15
STA 654'EB'+23 TO STA 664'EB'+96

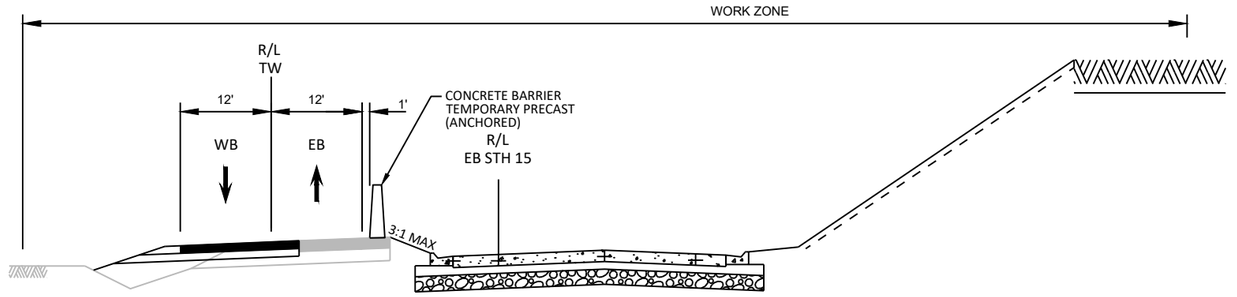


TYPICAL SECTION STAGE 1A
STH 15
STA 644'EB'+20 TO STA 653'EB'+54

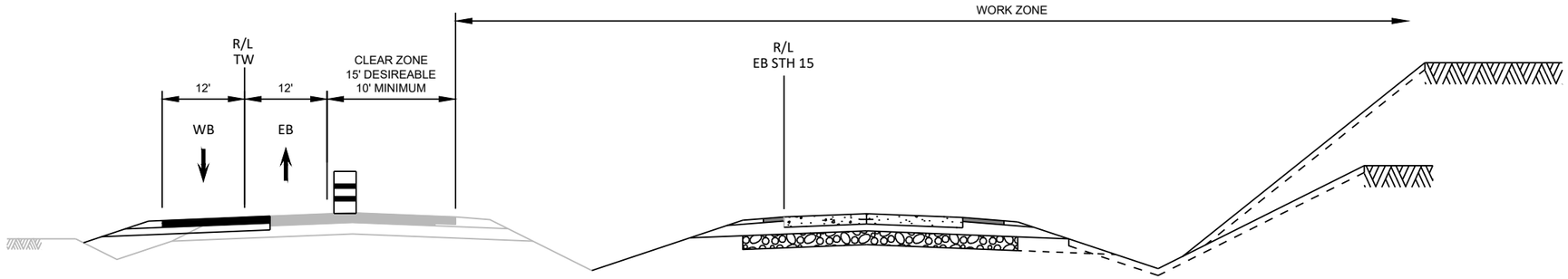


TYPICAL SECTION STAGE 1A
STH 15
STA 616'EB'+74 TO STA 644'EB'+20

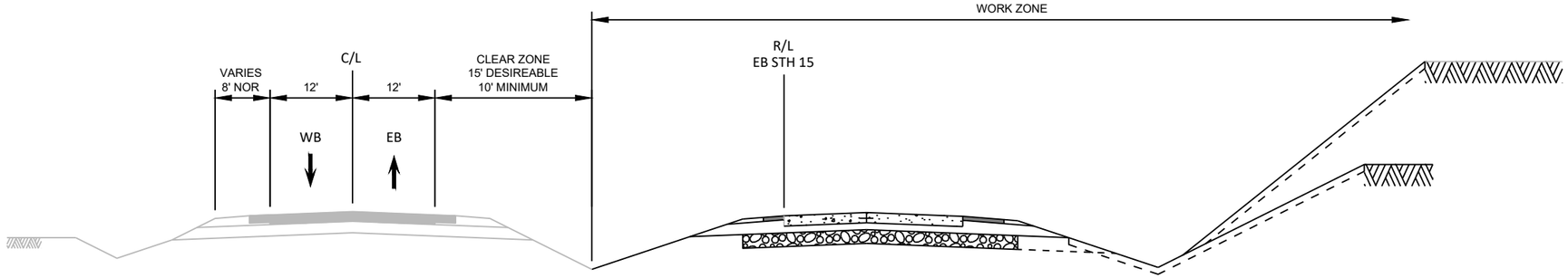
PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL TYPICAL SECTIONS	SHEET	E



TYPICAL SECTION STAGE 1B
STH 15
STA 626'EB'+00 TO STA 653'EB'+50



TYPICAL SECTION STAGE 1B
STH 15
STA 616'EB'+74 TO STA 637'EB'+00

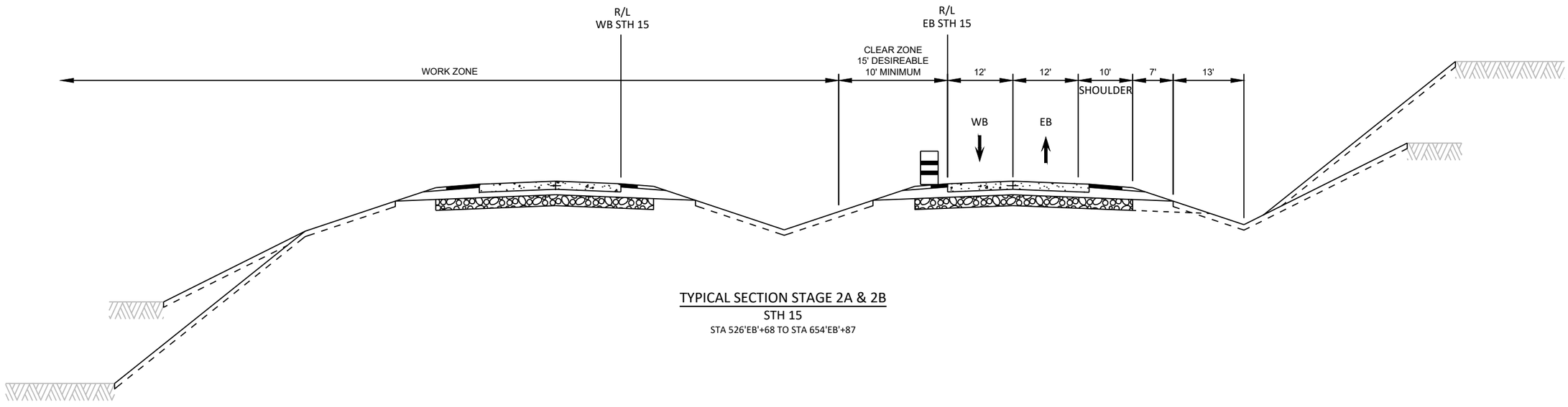


TYPICAL SECTION STAGE 1B
STH 15
STA 526'EB'+68 TO STA 616'EB'+74

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL TYPICAL SECTIONS	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-025000-TC.DWG
LAYOUT NAME - Stage 1B
PLOT DATE : 2/5/2020 12:28 PM PLOT BY : BUGARIN, JOSE PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

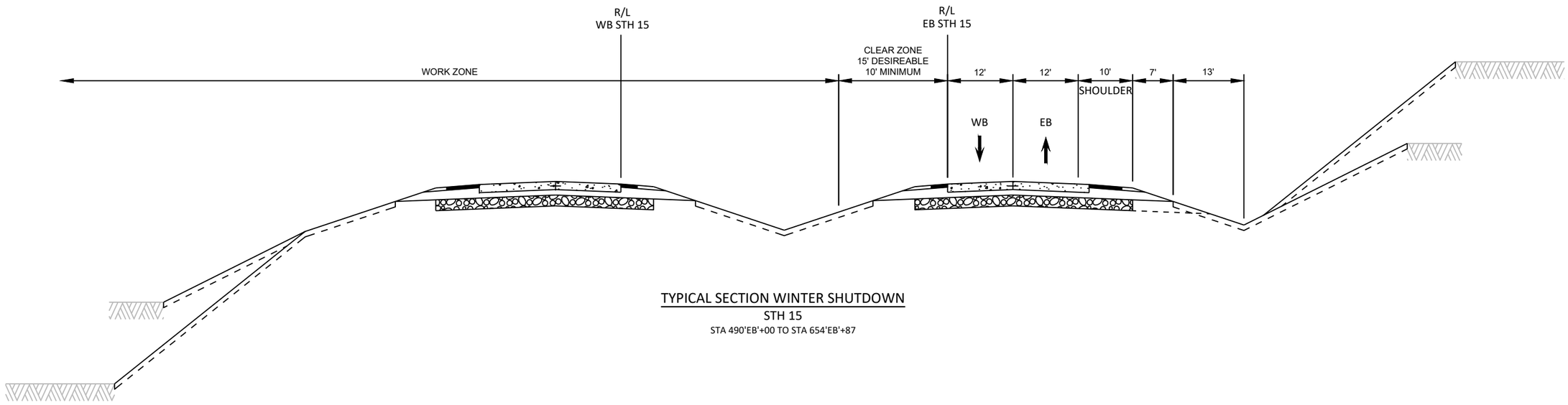
2



TYPICAL SECTION STAGE 2A & 2B

STH 15

STA 526'EB'+68 TO STA 654'EB'+87



TYPICAL SECTION WINTER SHUTDOWN

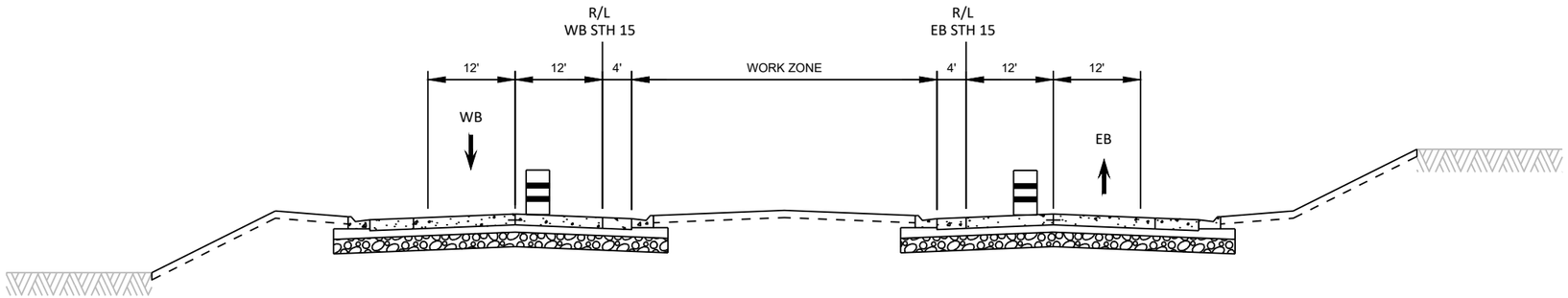
STH 15

STA 490'EB'+00 TO STA 654'EB'+87

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL TYPICAL SECTIONS	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\GFERGUS1\D1086473\11467572-025000-TC.DWG
LAYOUT NAME - Stage 2
PLOT DATE : 5/6/2020 8:08 AM
PLOT BY : FERGUSON, GARY/MKE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



TYPICAL SECTION STAGE 2C

STH 15

STA 626'EB'+97 TO STA 665'EB'+68

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL TYPICAL SECTIONS	SHEET	E

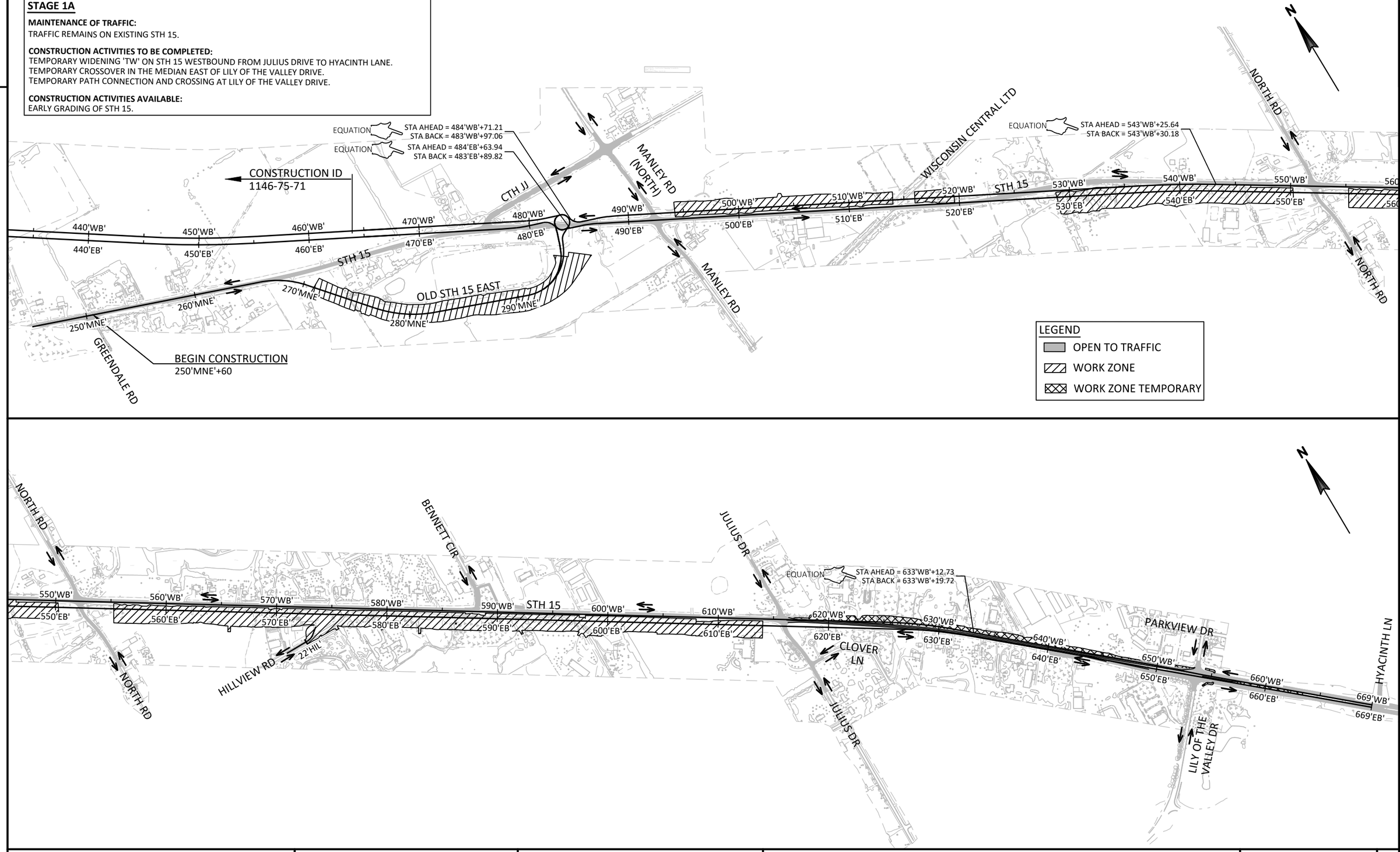
FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-025000-TC.DWG
LAYOUT NAME - Stage 3
PLOT DATE : 2/5/2020 12:28 PM
PLOT BY : BUGARIN, JOSE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

STAGE 1A

MAINTENANCE OF TRAFFIC:
TRAFFIC REMAINS ON EXISTING STH 15.

CONSTRUCTION ACTIVITIES TO BE COMPLETED:
TEMPORARY WIDENING 'TW' ON STH 15 WESTBOUND FROM JULIUS DRIVE TO HYACINTH LANE.
TEMPORARY CROSSOVER IN THE MEDIAN EAST OF LILY OF THE VALLEY DRIVE.
TEMPORARY PATH CONNECTION AND CROSSING AT LILY OF THE VALLEY DRIVE.

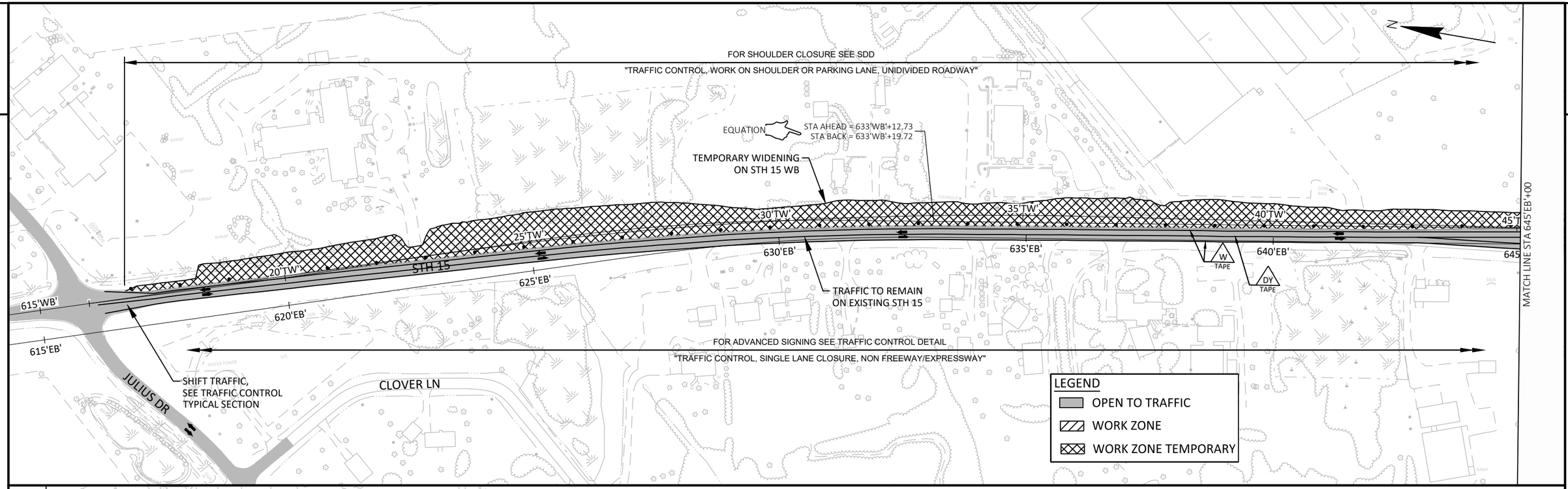
CONSTRUCTION ACTIVITIES AVAILABLE:
EARLY GRADING OF STH 15.

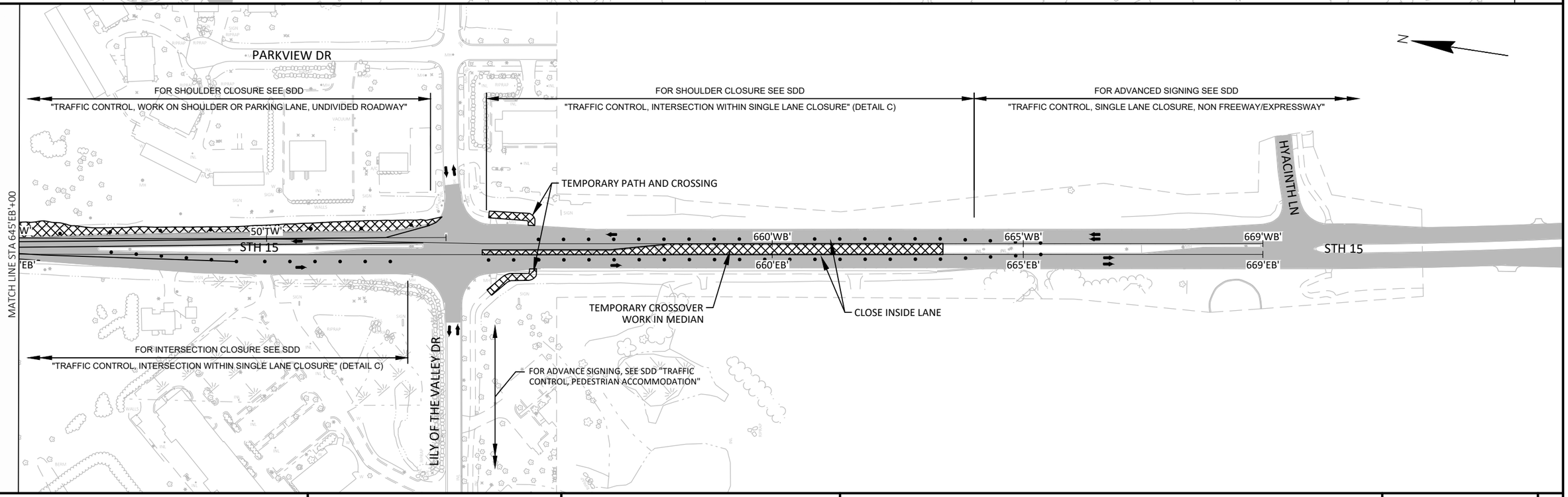


PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1A OVERVIEW	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026001A-TC.DWG
LAYOUT NAME - TC 1A OVERVIEW
PLOT DATE : 2/5/2020 12:30 PM
PLOT BY : BUGARIN, JOSE
PLOT NAME :
PLOT SCALE : ##########

2





PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1A DETAIL	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026002-TC.DWG
LAYOUT NAME - TC1A-01
PLOT DATE : 2/5/2020 12:32 PM
PLOT BY : BUGARIN, JOSE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

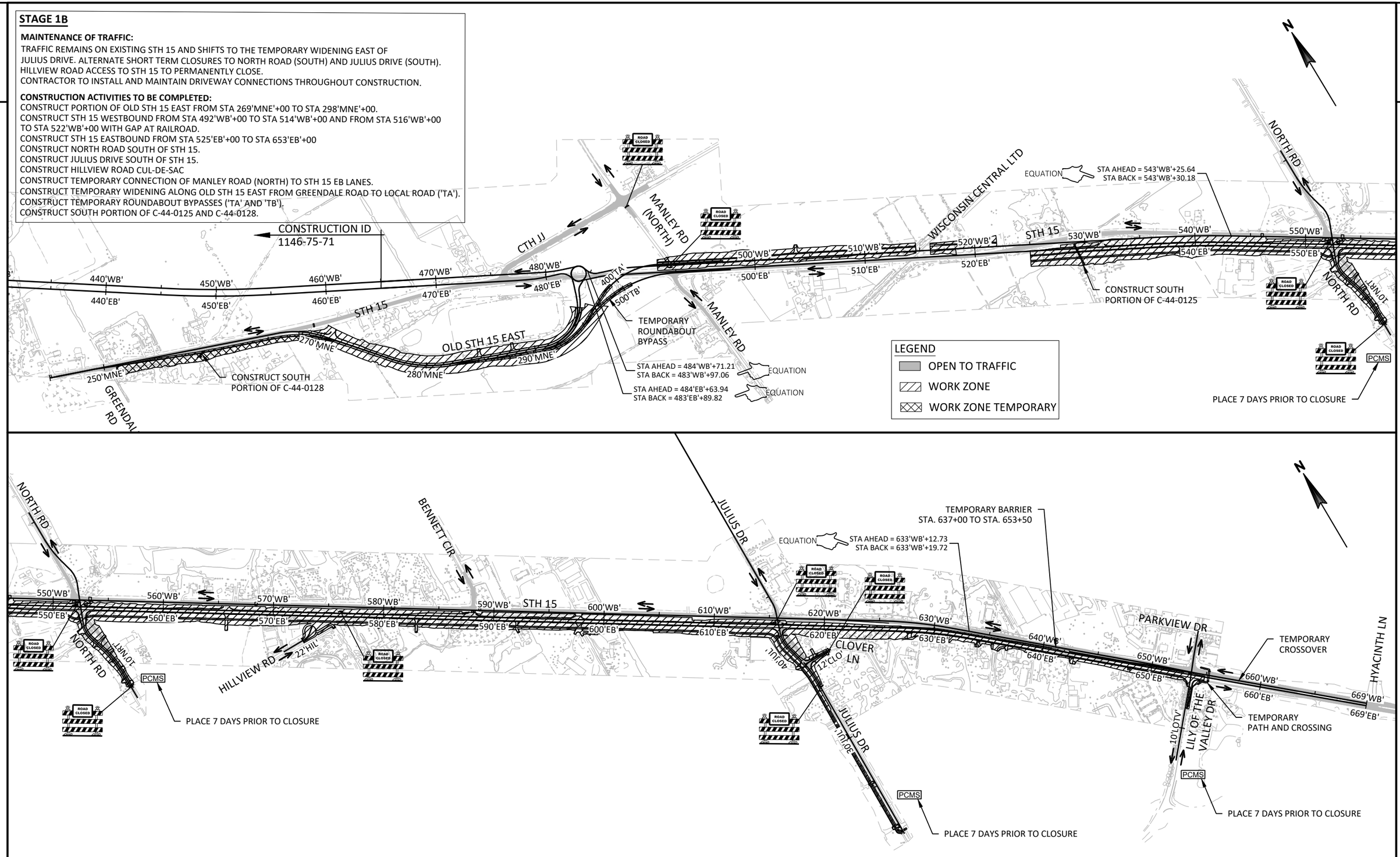
STAGE 1B

MAINTENANCE OF TRAFFIC:

TRAFFIC REMAINS ON EXISTING STH 15 AND SHIFTS TO THE TEMPORARY WIDENING EAST OF JULIUS DRIVE. ALTERNATE SHORT TERM CLOSURES TO NORTH ROAD (SOUTH) AND JULIUS DRIVE (SOUTH).
HILLVIEW ROAD ACCESS TO STH 15 TO PERMANENTLY CLOSE.
CONTRACTOR TO INSTALL AND MAINTAIN DRIVEWAY CONNECTIONS THROUGHOUT CONSTRUCTION.

CONSTRUCTION ACTIVITIES TO BE COMPLETED:

CONSTRUCT PORTION OF OLD STH 15 EAST FROM STA 269'MNE'+00 TO STA 298'MNE'+00.
CONSTRUCT STH 15 WESTBOUND FROM STA 492'WB'+00 TO STA 514'WB'+00 AND FROM STA 516'WB'+00 TO STA 522'WB'+00 WITH GAP AT RAILROAD.
CONSTRUCT STH 15 EASTBOUND FROM STA 525'EB'+00 TO STA 653'EB'+00
CONSTRUCT NORTH ROAD SOUTH OF STH 15.
CONSTRUCT JULIUS DRIVE SOUTH OF STH 15.
CONSTRUCT HILLVIEW ROAD CUL-DE-SAC
CONSTRUCT TEMPORARY CONNECTION OF MANLEY ROAD (NORTH) TO STH 15 EB LANES.
CONSTRUCT TEMPORARY WIDENING ALONG OLD STH 15 EAST FROM GREENDALE ROAD TO LOCAL ROAD ('TA').
CONSTRUCT TEMPORARY ROUNDABOUT BYPASSES ('TA' AND 'TB').
CONSTRUCT SOUTH PORTION OF C-44-0125 AND C-44-0128.



PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1B OVERVIEW	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026101A-TC.DWG
LAYOUT NAME - TC 1B OVERVIEW
PLOT DATE : 2/5/2020 12:38 PM PLOT BY : BUGARIN, JOSE PLOT NAME : PLOT SCALE : ##########

2

FOR ADVANCED SIGNING SEE SDD
"TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

FOR SHOULDER CLOSURE SEE SDD
"TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

450'EB'
455'EB'

345'TA'
250'MNE'
255'MNE'
357'TA'
260'MNE'
363'TA'
265'MNE'

GREENDALE RD

CONSTRUCT SOUTH PORTION OF C-44-0128

TEMPORARY WIDENING

MATCH LINE STA 269'MNE'+00

LEGEND
- OPEN TO TRAFFIC
- WORK ZONE
- WORK ZONE TEMPORARY

460'WB'
465'WB'
460'EB'
465'EB'
470'WB'
475'WB'
470'EB'
475'EB'
480'WB'
480'EB'
485'WB'
485'EB'

STH 15

CTH JJ

EQUATION STA AHEAD = 484'WB'+71.21
STA BACK = 483'WB'+97.06

EQUATION STA AHEAD = 484'EB'+63.94
STA BACK = 483'EB'+89.82

TRAFFIC TO REMAIN ON EXISTING STH 15

498'MNW

402'T

501'TB'

MAINTAIN EXISTING DRIVEWAY

TEMPORARY ROUNDABOUT BYPASS

270'MNE'
372'TA'
275'MNE'
OLD STH 15 EAST
280'MNE'
381'TA'
285'MNE'
387'TA'
290'MNE'
494'MNW
295'MNE'
396'TA'
495'TB'

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1B DETAIL	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026102-TC.DWG
LAYOUT NAME - TC1B-01

PLOT DATE : 2/5/2020 12:41 PM PLOT BY : BUGARIN, JOSE PLOT NAME : PLOT SCALE : ##########

2

LEGEND
- OPEN TO TRAFFIC
- WORK ZONE
- WORK ZONE TEMPORARY

FOR ADVANCED SIGNS SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

FOR CLOSURE OF MANLEY ROAD (NORTH) SEE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"

ROAD CLOSED
LOCAL TRAFFIC ONLY

MANLEY RD (NORTH)

ROAD CLOSED

FOR SHOULDER CLOSURE SEE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

TEMPORARY CONNECTION

NO RIGHT TURN

CTH JJ

EQUATION
STA AHEAD = 484'WB'+71.21
STA BACK = 483'WB'+97.06

EQUATION
STA AHEAD = 484'EB'+63.94
STA BACK = 483'EB'+89.82

470'WB' 475'WB' 480'WB' 485'WB' 402'TA' 490'WB' 495'WB' 500

470'EB' 475'EB' 480'EB' 485'EB' 490'EB' 500

STH 15

TRAFFIC TO REMAIN ON EXISTING STH 15

498'MNW'

501'TB'

38'MAN'

MANLEY RD

MAINTAIN EXISTING DRIVEWAY

TEMPORARY ROUNDABOUT BYPASS

396'TA'

295'MNE'

494'MNW'

495'TB'

290'MNE'

387'TA'

381'TA'

285'MNE'

280'MNE'

OLD STH 15 EAST

36'MAN'

34'MAN'

32'MAN'

30'MAN'

FOR ADVANCED SIGNS SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

MATCH LINE STA 500'EB'+00

2

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1B DETAIL	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026102-TC.DWG
LAYOUT NAME - TC1B-02
PLOT DATE : 2/5/2020 12:42 PM
PLOT BY : BUGARIN, JOSE
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

FOR SHOULDER CLOSURE SEE SDD "TRAFFIC CONTROL,
WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

FOR ADVANCE SIGNING SEE SDD "TRAFFIC CONTROL,
WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

WISCONSIN CENTRAL LTD

MATCH LINE STA 500'EB'+00

WB' 505'WB' 510'WB' 515'WB' 520'WB' 525'WB' 530

'EB' 505'EB' 510'EB' STH 15 515'EB' 520'EB' 525'EB' 530

CONSTRUCT SOUTH
PORTION OF C-44-0125

FOR ADVANCE SIGNING SEE SDD "TRAFFIC CONTROL,
"ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

FOR SHOULDER CLOSURE SEE SDD "TRAFFIC CONTROL,
WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

LEGEND
- OPEN TO TRAFFIC
- WORK ZONE
- WORK ZONE TEMPORARY

SDD "TRAFFIC CONTROL, ADVANCE WARNING
SIGNS 45 M.P.H. OR GREATER, TWO WAY
UNDIVIDED ROAD OPEN TO TRAFFIC"

NORTH RD

20'NFT

ROAD CLOSED

SEE NOTES

FOR SHOULDER CLOSURE SEE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

STA AHEAD = 543'WB'+25.64
STA BACK = 543'WB'+30.18

EQUATION

TEMPORARY CONNECTION

18'NFT

MATCH LINE STA 530'EB'+00

WB' 535'WB' STH 15 540'WB' 545'WB' 550'WB' 555'WB' 560

EB 535'EB' 540'EB' 545'EB' 550'EB' 555'EB' 560

MATCH LINE STA 560'EB'+00

NO RIGHT TURN

12'NFT

FOR ADVANCED SIGNS SEE SDD
"TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H. OR
GREATER, TWO WAY UNDIVIDED
ROAD OPEN TO TRAFFIC"

NORTH RD

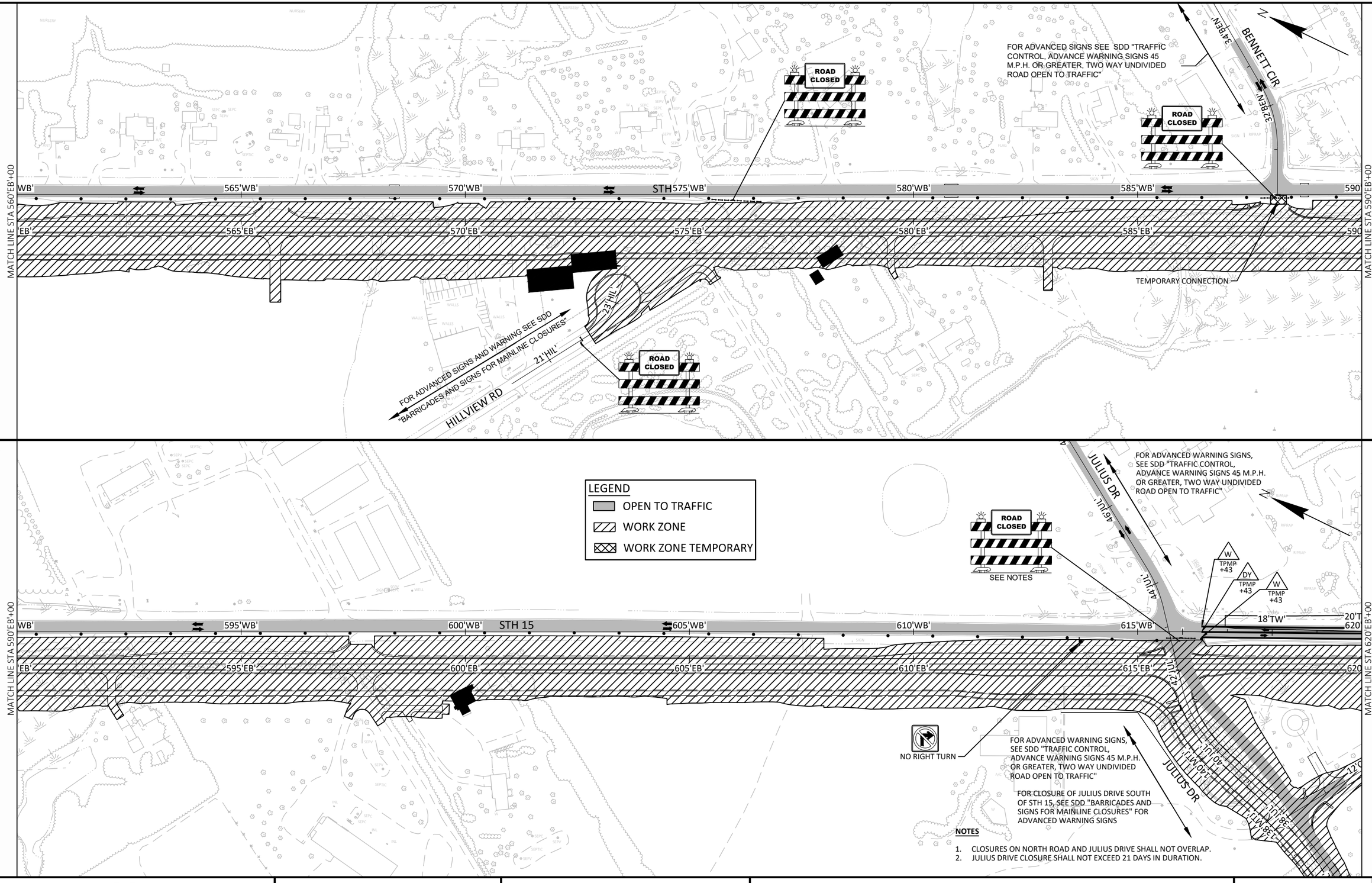
NOTES

1. CLOSURES ON NORTH ROAD AND JULIUS DRIVE SHALL NOT OVERLAP.
2. NORTH ROAD CLOSURE SHALL NOT EXCEED 21 DAYS IN DURATION.

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1B DETAIL	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026102-TC.DWG
LAYOUT NAME - TC1B-03

PLOT DATE : 2/5/2020 12:43 PM PLOT BY : BUGARIN, JOSE PLOT NAME : PLOT SCALE : 1 IN:200 FT

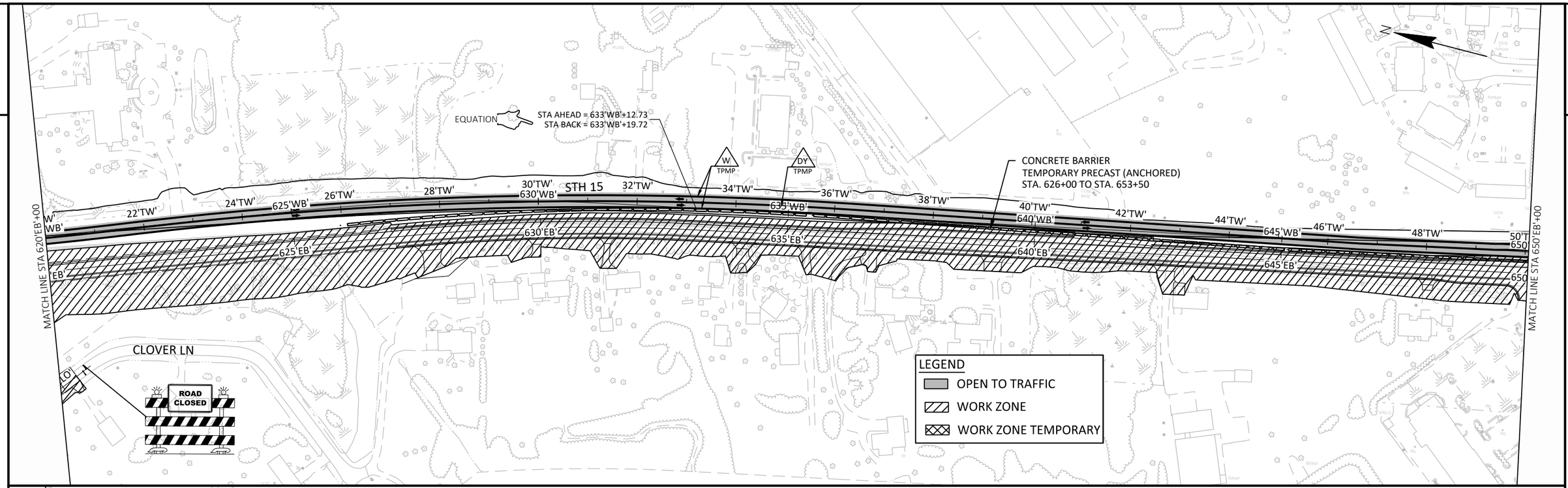


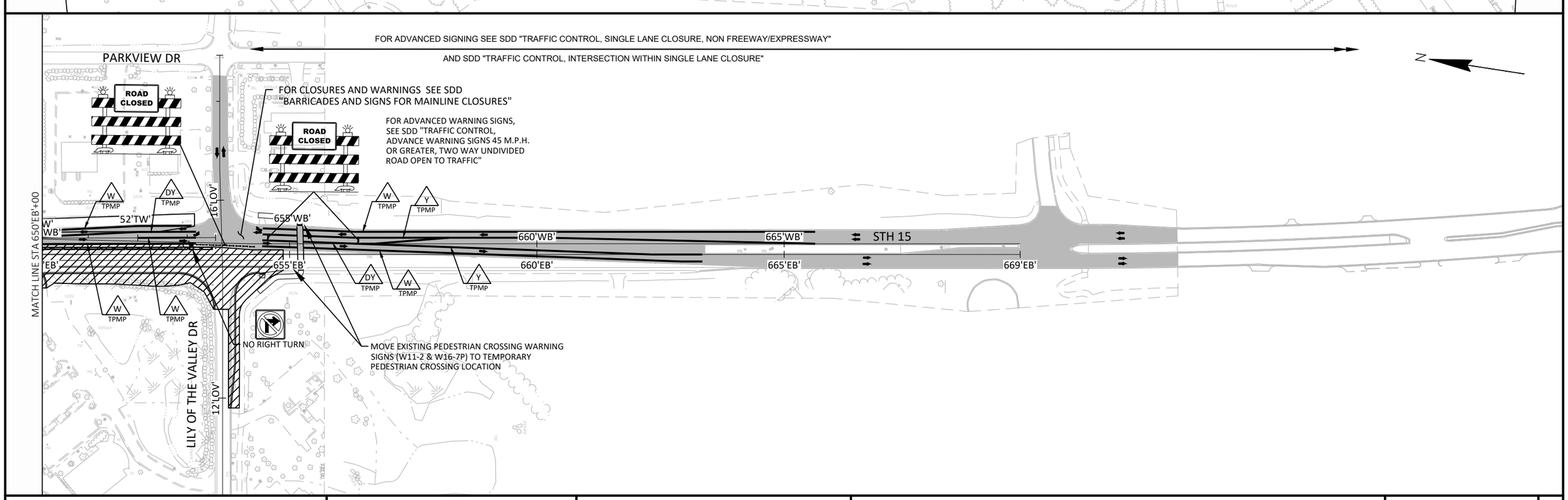
PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1B DETAIL	SHEET E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026102-TC.DWG
LAYOUT NAME - TC1B-04

PLOT DATE : 2/5/2020 12:44 PM PLOT BY : BUGARIN, JOSE PLOT NAME : PLOT SCALE : 1 IN:200 FT

2





PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1B DETAIL	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\GFERGUS1\D1086473\11467572-026102-TC.DWG
LAYOUT NAME - TC1B-05
PLOT DATE : 5/6/2020 8:53 AM
PLOT BY : FERGUSON, GARY/MKE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

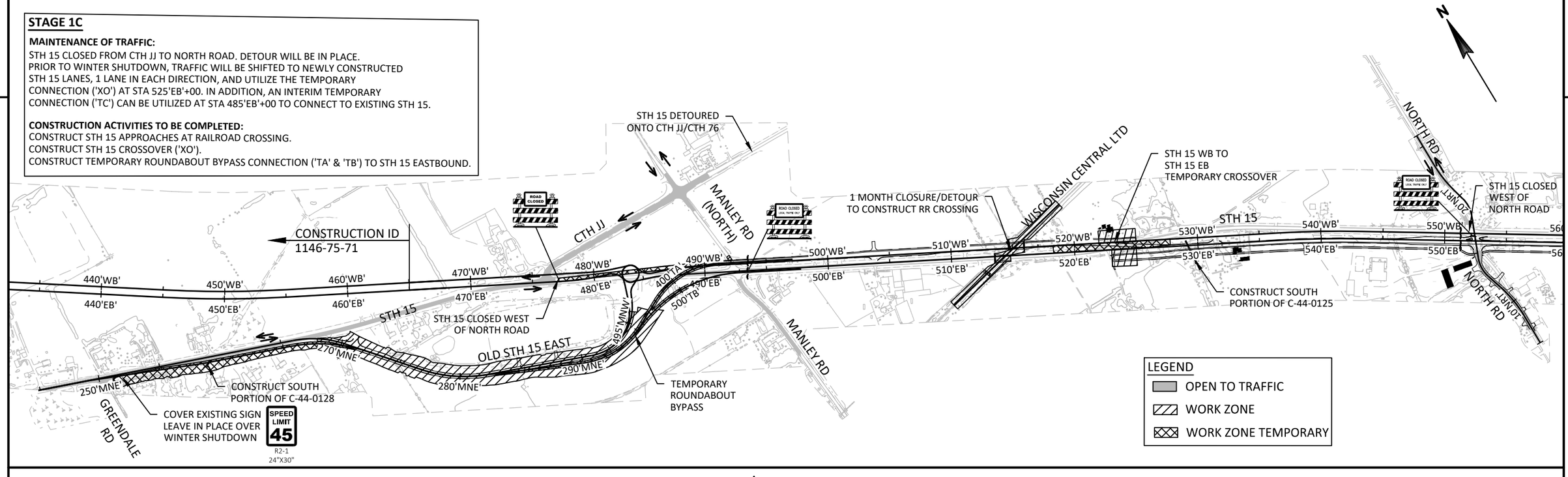
STAGE 1C

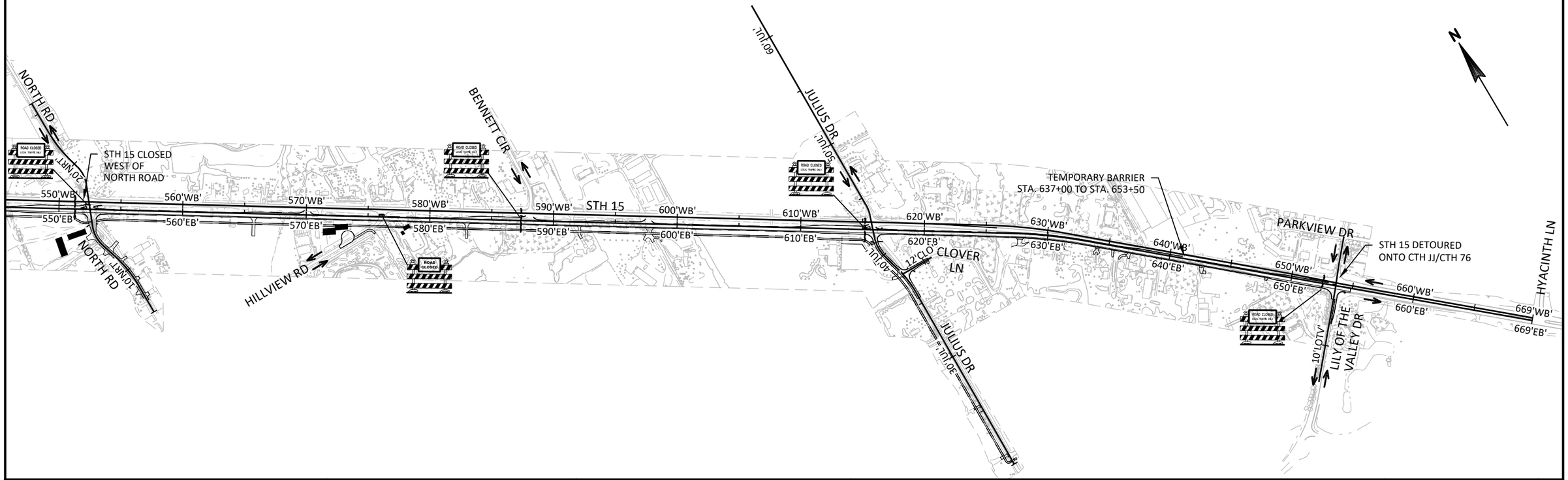
MAINTENANCE OF TRAFFIC:

STH 15 CLOSED FROM CTH JJ TO NORTH ROAD. DETOUR WILL BE IN PLACE.
PRIOR TO WINTER SHUTDOWN, TRAFFIC WILL BE SHIFTED TO NEWLY CONSTRUCTED
STH 15 LANES, 1 LANE IN EACH DIRECTION, AND UTILIZE THE TEMPORARY
CONNECTION ('XO') AT STA 525'EB'+00. IN ADDITION, AN INTERIM TEMPORARY
CONNECTION ('TC') CAN BE UTILIZED AT STA 485'EB'+00 TO CONNECT TO EXISTING STH 15.

CONSTRUCTION ACTIVITIES TO BE COMPLETED:

CONSTRUCT STH 15 APPROACHES AT RAILROAD CROSSING.
CONSTRUCT STH 15 CROSSOVER ('XO').
CONSTRUCT TEMPORARY ROUNDABOUT BYPASS CONNECTION ('TA' & 'TB') TO STH 15 EASTBOUND.





PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1C OVERVIEW	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026201A-TC.DWG
LAYOUT NAME - TC 1C OVERVIEW
PLOT DATE : 2/5/2020 12:48 PM
PLOT BY : BUGARIN, JOSE
PLOT NAME :
PLOT SCALE : ##########

2

FOR ADVANCED SIGNING SEE SDD
"TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

FOR SHOULDER CLOSURE SEE SDD
"TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

450'EB'

455'EB'

N

250'MNE'

255'MNE'

260'MNE'
360'TA'

265'MNE'
365'TA'

MATCH LINE STA 269'MNE'+00

GREENDALE RD

CONSTRUCT SOUTH
PORTION OF C-44-0128

TEMPORARY WIDENING

LEGEND
- OPEN TO TRAFFIC
- WORK ZONE
- WORK ZONE TEMPORARY

460'WB'

465'WB'

460'EB'

465'EB'

470'WB'

470'EB'

475'WB'

475'EB'

SEE DETOUR PLAN

CTH JJ

EQUATION
STA AHEAD = 484'WB'+71.21
STA BACK = 483'WB'+97.06

EQUATION
STA AHEAD = 484'EB'+63.94
STA BACK = 483'EB'+89.82

2'TC'

4'TC'

6'TC'

8'TC'

10'TC'

12'TC'

480'WB'

480'EB'

485'WB'

485'EB'

STH 15

ROAD
CLOSED

TRAFFIC TO REMAIN
ON EXISTING STH 15

498'MNW'

MAINTAIN
EXISTING
DRIVEWAY

400'TA'

500'TB'

MATCH LINE STA 269'MNE'+00

270'MNE'

275'MNE'

375'TA'

OLD STH 15 EAST

280'MNE'

380'TA'

285'MNE'

290'MNE'

494'MNW'

295'MNE'

395'TA'

TEMPORARY
ROUNDABOUT
BYPASS

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1C DETAIL - OLD STH 15 EAST	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026202-TC.DWG
LAYOUT NAME - TC1C-01

PLOT DATE : 2/5/2020 12:51 PM PLOT BY : BUGARIN, JOSE PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

2

LEGEND
- OPEN TO TRAFFIC
- WORK ZONE
- WORK ZONE TEMPORARY

FOR ADVANCED SIGNS SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

FOR CLOSURE OF MANLEY ROAD (NORTH) SEE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"

ROAD CLOSED
LOCAL TRAFFIC ONLY

MANLEY RD (NORTH)

ROAD CLOSED

TEMPORARY CONNECTION

ROAD CLOSED
LOCAL TRAFFIC ONLY

CTH JJ

EQUATION
STA AHEAD = 484'WB'+71.21
STA BACK = 483'WB'+97.06

EQUATION
STA AHEAD = 484'EB'+63.94
STA BACK = 483'EB'+89.82

TEMPORARY CONNECTION (TC)

SEE DETOUR PLAN

470'WB'
475'WB'
480'WB'
485'WB'
490'WB'
405'TA'
495'WB'
500

2'TC'
4'TC'
6'TC'
8'TC'
10'TC'
12'TC'
14'TC'

470'EB'
475'EB'
480'EB'
485'EB'
490'EB'
504'TB'
506'TB'
495'EB'
508'TB'
500

STH 15

498'MNW'

400'TA'
502'TB'
500'TB'

38'MAN'

MATCH LINE STA 500'EB'+00

ROAD CLOSED

MAINTAIN EXISTING DRIVEWAY

MANLEY RD

36'MAN'
34'MAN'
32'MAN'
30'MAN'

FOR ADVANCED SIGNS, SEE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"

TEMPORARY ROUNDABOUT BYPASS

494'MNW'
395'TA'
295'MNE'
290'MNE'
285'MNE'
380'TA'
280'MNE'

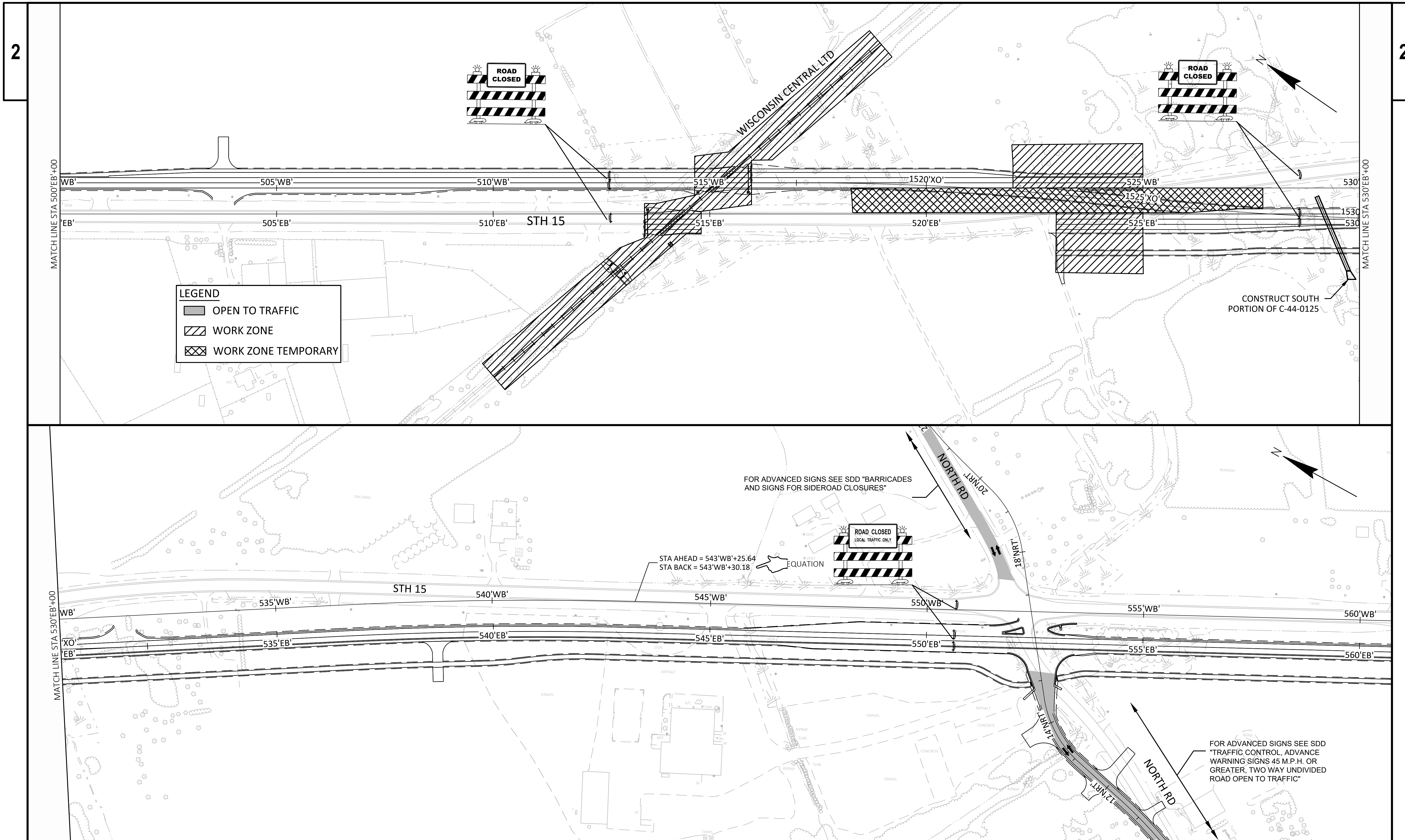
OLD STH 15 EAST

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1C DETAIL - STH 15	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026202-TC.DWG
LAYOUT NAME - TC1C-02

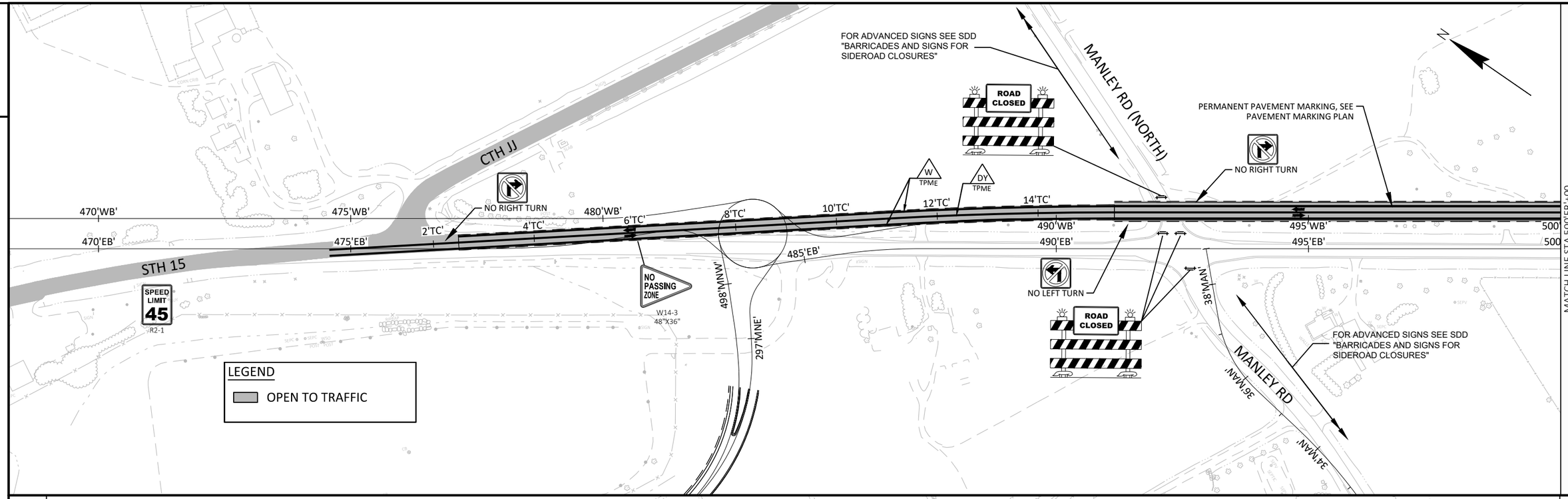
PLOT DATE : 2/5/2020 12:52 PM PLOT BY : BUGARIN, JOSE PLOT NAME : PLOT SCALE : ##########

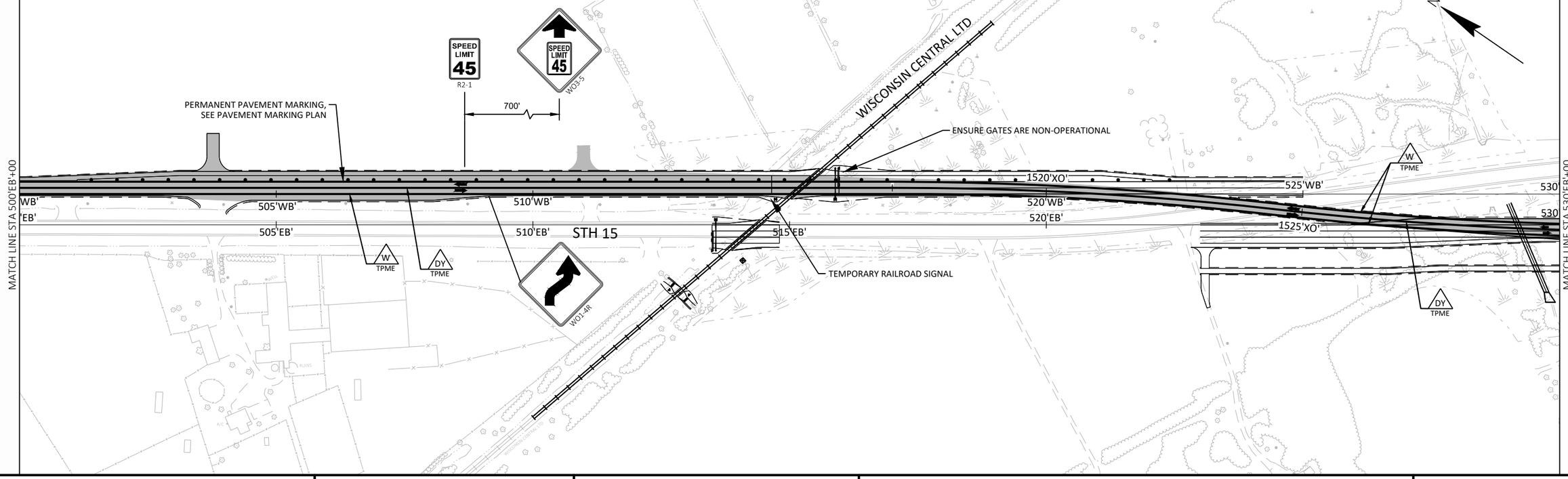
WISDOT/CADDS SHEET 42



2
ROAD CLOSED
WISCONSIN CENTRAL LTD
STH 15
505'WB'
510'WB'
515'WB'
1520'XO'
525'WB'
1525'XO'
505'EB'
510'EB'
515'EB'
520'EB'
525'EB'
MATCH LINE STA 500'EB'+00
MATCH LINE STA 530'EB'+00
LEGEND
OPEN TO TRAFFIC
WORK ZONE
WORK ZONE TEMPORARY
CONSTRUCT SOUTH
PORTION OF C-44-0125
FOR ADVANCED SIGNS SEE SDD "BARRICADES
AND SIGNS FOR SIDEROAD CLOSURES"
NORTH RD
20'NRT'
18'NRT'
ROAD CLOSED
LOCAL TRAFFIC ONLY
STA AHEAD = 543'WB'+25.64
STA BACK = 543'WB'+30.18
EQUATION
535'WB'
540'WB'
545'WB'
550'WB'
555'WB'
560'WB'
535'EB'
540'EB'
545'EB'
550'EB'
555'EB'
560'EB'
FOR ADVANCED SIGNS SEE SDD
"TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H. OR
GREATER, TWO WAY UNDIVIDED
ROAD OPEN TO TRAFFIC"

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 1C DETAIL - STH 15	SHEET	E



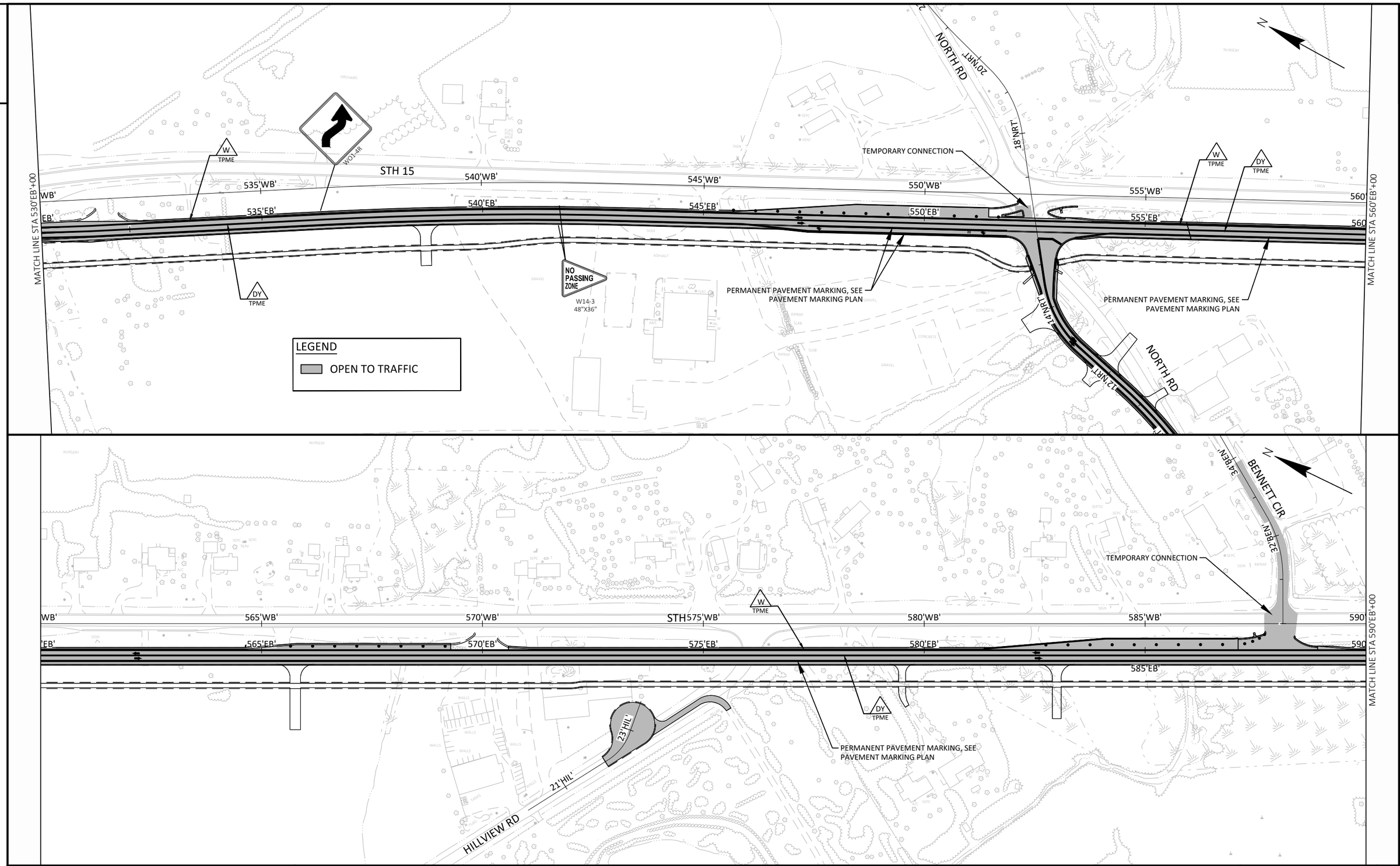


PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - WINTER SHUTDOWN - STH 15	SHEET E

FILE NAME : C:\PW_WORKDIR\DEN001\GFERGUS1\D1086473\11467572-026203-TC.DWG
LAYOUT NAME - TCWS-01

PLOT DATE : 5/6/2020 9:26 AM PLOT BY : FERGUSON, GARY/MKE PLOT NAME : PLOT SCALE : 1 IN:200 FT

2



2

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - WINTER SHUTDOWN - STH 15	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026203-TC.DWG
LAYOUT NAME - TCWS-02

PLOT DATE : 2/5/2020 12:57 PM PLOT BY : BUGARIN, JOSE PLOT NAME : PLOT SCALE : 1 IN:200 FT

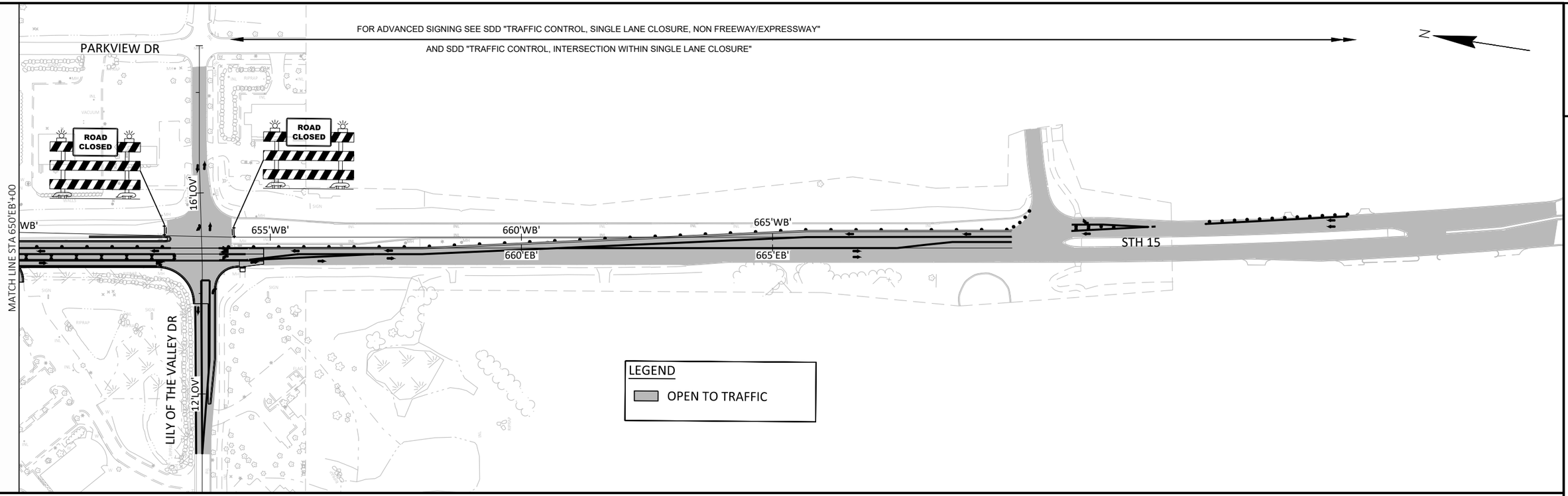
PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - WINTER SHUTDOWN - STH 15	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026203-TC.DWG
LAYOUT NAME - TCWS-03
PLOT DATE : 2/5/2020 12:58 PM
PLOT BY : BUGARIN, JOSE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44

2

FOR ADVANCED SIGNING SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY"

AND SDD "TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE"



PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - WINTER SHUTDOWN - STH 15	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\GFERGUS1\D1086473\11467572-026203-TC.DWG
LAYOUT NAME - TCWS-04

PLOT DATE : 5/6/2020 9:15 AM PLOT BY : FERGUSON, GARY/MKE PLOT NAME : PLOT SCALE : 1 IN:200 FT

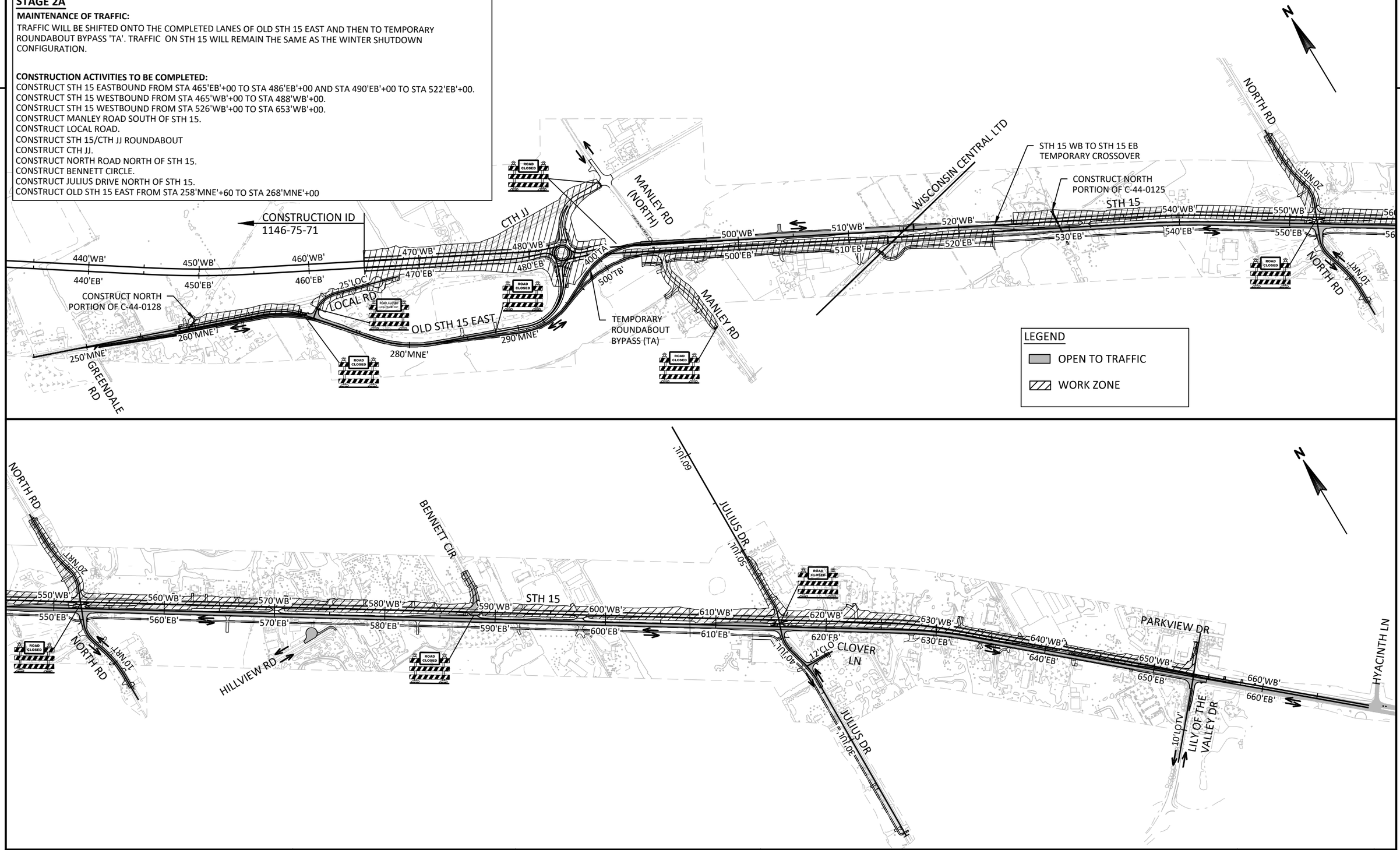
STAGE 2A

MAINTENANCE OF TRAFFIC:

TRAFFIC WILL BE SHIFTED ONTO THE COMPLETED LANES OF OLD STH 15 EAST AND THEN TO TEMPORARY ROUNDABOUT BYPASS 'TA'. TRAFFIC ON STH 15 WILL REMAIN THE SAME AS THE WINTER SHUTDOWN CONFIGURATION.

CONSTRUCTION ACTIVITIES TO BE COMPLETED:

CONSTRUCT STH 15 EASTBOUND FROM STA 465'EB'+00 TO STA 486'EB'+00 AND STA 490'EB'+00 TO STA 522'EB'+00.
CONSTRUCT STH 15 WESTBOUND FROM STA 465'WB'+00 TO STA 488'WB'+00.
CONSTRUCT STH 15 WESTBOUND FROM STA 526'WB'+00 TO STA 653'WB'+00.
CONSTRUCT MANLEY ROAD SOUTH OF STH 15.
CONSTRUCT LOCAL ROAD.
CONSTRUCT STH 15/CTH JJ ROUNDABOUT
CONSTRUCT CTH JJ.
CONSTRUCT NORTH ROAD NORTH OF STH 15.
CONSTRUCT BENNETT CIRCLE.
CONSTRUCT JULIUS DRIVE NORTH OF STH 15.
CONSTRUCT OLD STH 15 EAST FROM STA 258'MNE'+60 TO STA 268'MNE'+00



PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2A OVERVIEW	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026301A-TC.DWG
LAYOUT NAME - TC 2A OVERVIEW
PLOT DATE : 2/5/2020 1:01 PM
PLOT BY : BUGARIN, JOSE
PLOT NAME :
PLOT SCALE : ##########

2

FOR ADVANCED SIGNING SEE SDD
"TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD"

FOR SHOULDER CLOSER SEE SDD "TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD"

450'EB'

455'EB'

N

SPEED LIMIT 45

W03-5

700'

SPEED LIMIT 45

R2-1

ROAD CLOSED

CONSTRUCT NORTH PORTION OF C-44-0128

CONCRETE BARRIER TEMPORARY PRECAST (ANCHORED)
STA. 258+00 TO 270+50

250'MNE'

255'MNE'

260'MNE'

265'MNE'

360'TA'

365'TA'

OLD STH 15 EAST

DY TPMP

W TPMP

GREENDALE RD

CONCRETE BARRIER TEMPORARY PRECAST (ANCHORED)
STA. 250+50 TO 260+00

MATCH LINE STA 269'MNE'+00

LEGEND

- OPEN TO TRAFFIC
- WORK ZONE
- WORK ZONE TEMPORARY

460'WB'

465'WB'

460'EB'

465'EB'

470'WB'

475'WB'

470'EB'

475'EB'

480'WB'

480'EB'

STH 15

485'WB'

485'EB'

ROAD CLOSED

N

FOR SHOULDER CLOSER SEE SDD
"TRAFFIC CONTROL, LANE SHIFT,
MULTI-LANE DIVIDED OR ONE-WAY ROAD"

LOCAL RD

MATCH LINE STA 269'MNE'+00

498'MNW'

400'TA'

500'TB'

FOR SHOULDER CLOSER SEE SDD
"TRAFFIC CONTROL, LANE SHIFT,
MULTI-LANE DIVIDED OR ONE-WAY ROAD"

FOR ADVANCED SIGNING SEE SDD
"TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE
DIVIDED OR ONE-WAY ROAD.

EQUATION — STA AHEAD = 484'WB'+71.21
STA BACK = 483'WB'+97.06

EQUATION — STA AHEAD = 484'EB'+63.94
STA BACK = 483'EB'+89.82

TEMPORARY ROUNDABOUT BYPASS (TA)

PERMANENT PAVEMENT MARKING, SEE PAVEMENT MARKING PLAN

ROAD CLOSED

ROAD CLOSED
LOCAL TRAFFIC ONLY

OLD STH 15 EAST

375'TA'

275'MNE'

380'TA'

280'MNE'

290'MNE'

494'MNW'

295'MNE'

395'TA'

DY TPMP

W TPMP

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2A DETAIL - OLD STH 15 EAST	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026302-TC.DWG
LAYOUT NAME - TC2A-01

PLOT DATE : 2/5/2020 1:04 PM PLOT BY : BUGARIN, JOSE PLOT NAME : PLOT SCALE : ############

WISDOT/CADDS SHEET 42

2

LEGEND
- OPEN TO TRAFFIC
- WORK ZONE
- WORK ZONE TEMPORARY

N

FOR ADVANCED SIGNS SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

ROAD CLOSED

MANLEY RD (NORTH)

ROAD CLOSED

FOR SHOULDER CLOSER SEE SDD "TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD"

FOR SHOULDER CLOSER SEE SDD "TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD"

FOR ADVANCED SIGNING SEE SDD "TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD.

CTH JJ

470'WB' 475'WB' 480'WB' 485'WB' 490'WB' 405'TA' 495'WB' 500

STH 15

470'EB' 475'EB' 480'EB' 485'EB' 490'EB' 504'TB' 506'TB' 495'EB' 508'TB' 500

MATCH LINE STA 500'EB'+00

400'TA' 502'TB' 500'TB'

38'MAN

MANLEY RD

36'MAN 34'MAN 32'MAN 30'MAN

FOR SHOULDER CLOSER SEE SDD "TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD"

FOR ADVANCED SIGNS SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

EQUATION STA AHEAD = 484'WB'+71.21
STA BACK = 483'WB'+97.06

EQUATION STA AHEAD = 484'EB'+63.94
STA BACK = 483'EB'+89.82

485'MNW' 495'MNW' 494'MNW' 295'MNE' 395'TA'

W TPMP

DY TPMP

ROAD CLOSED

TEMPORARY ROUNDABOUT BYPASS (TA)

290'MNE'

380'TA' 280'MNE'

OLD STH 15 EAST

FOR SHOULDER CLOSER SEE SDD "TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD"

FOR ADVANCED SIGNING SEE SDD "TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD.

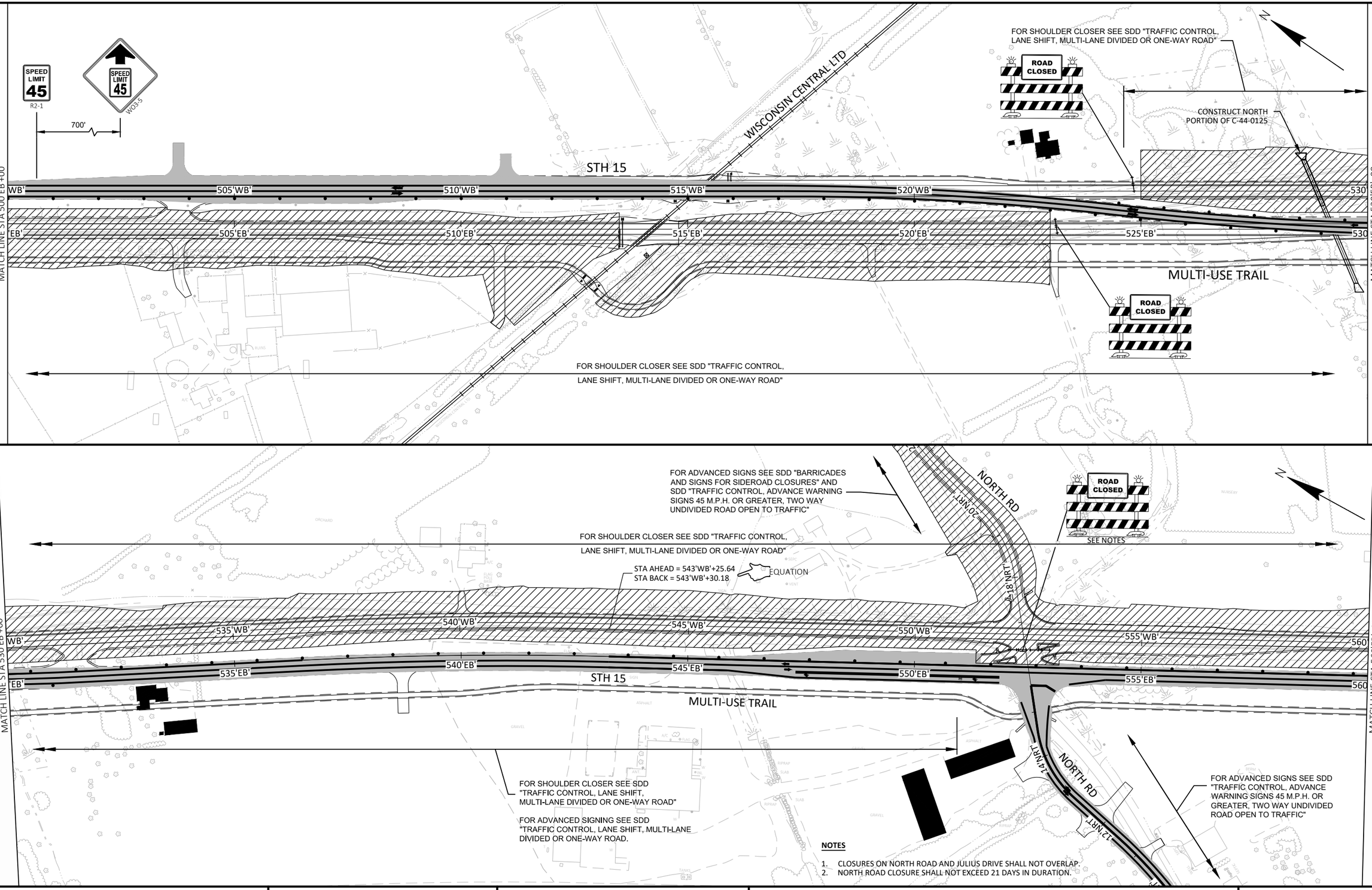
ROAD CLOSED

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2A DETAIL - STH 15	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026302-TC.DWG
LAYOUT NAME - TC2A-02

PLOT DATE : 2/5/2020 1:05 PM PLOT BY : BUGARIN, JOSE PLOT NAME : PLOT SCALE : ##########

2



NOTES

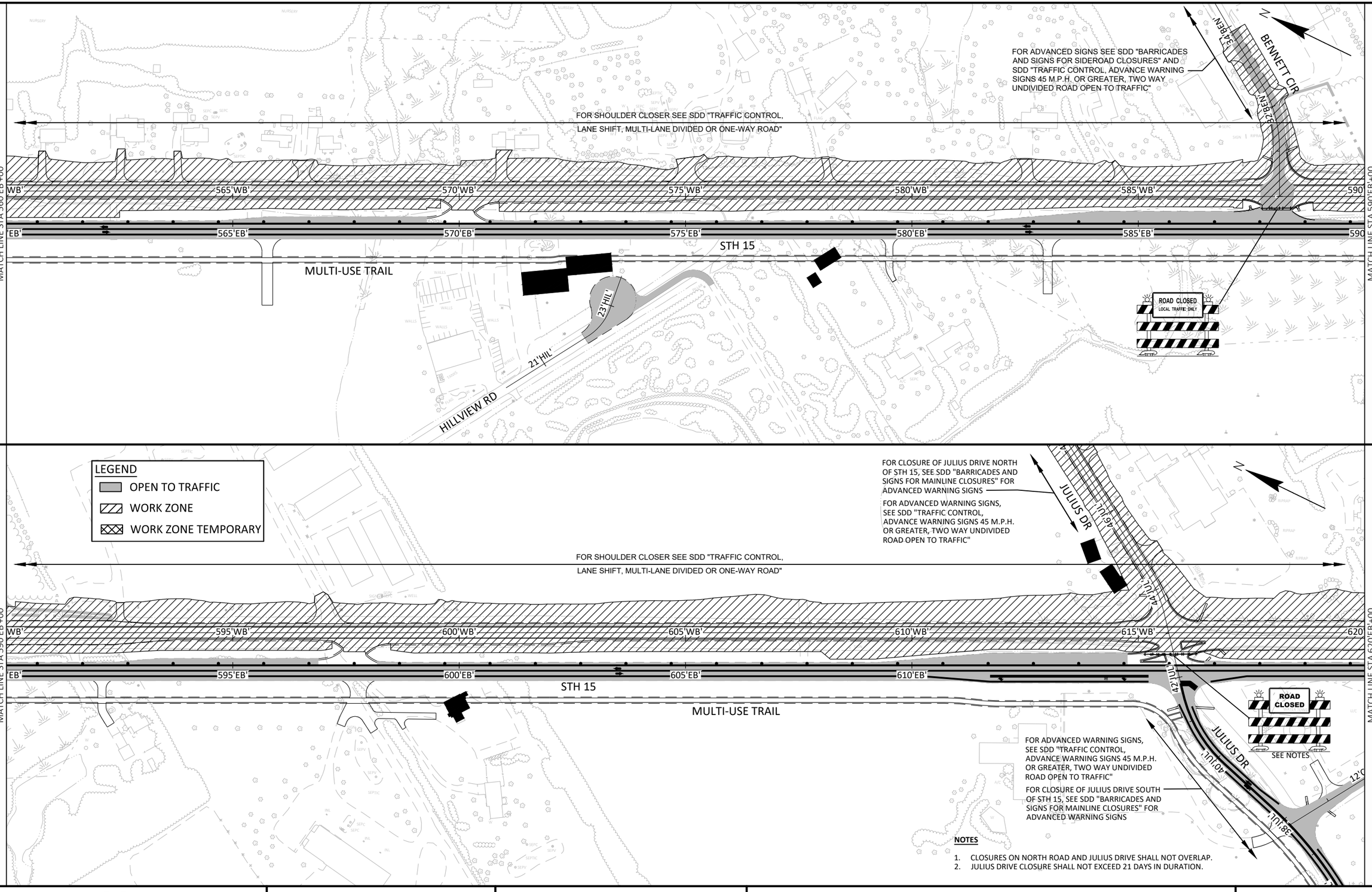
1. CLOSURES ON NORTH ROAD AND JULIUS DRIVE SHALL NOT OVERLAP.
2. NORTH ROAD CLOSURE SHALL NOT EXCEED 21 DAYS IN DURATION.

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2A DETAIL - STH 15	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026302-TC.DWG
LAYOUT NAME - TC2A-03

PLOT DATE : 2/5/2020 1:06 PM PLOT BY : BUGARIN, JOSE PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

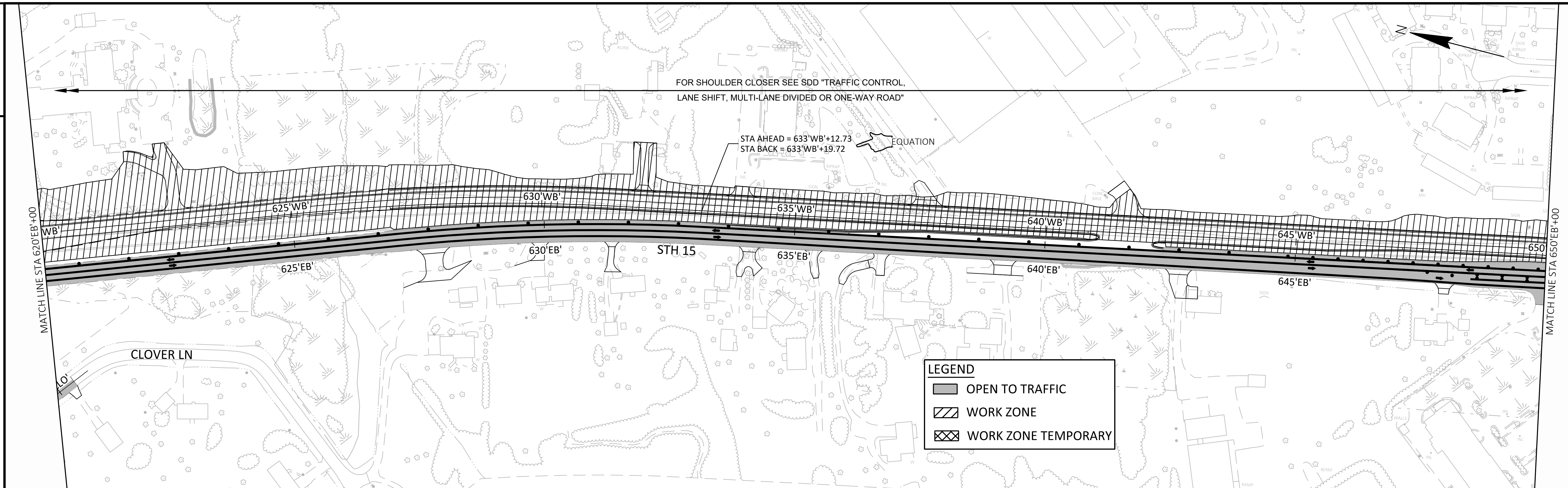


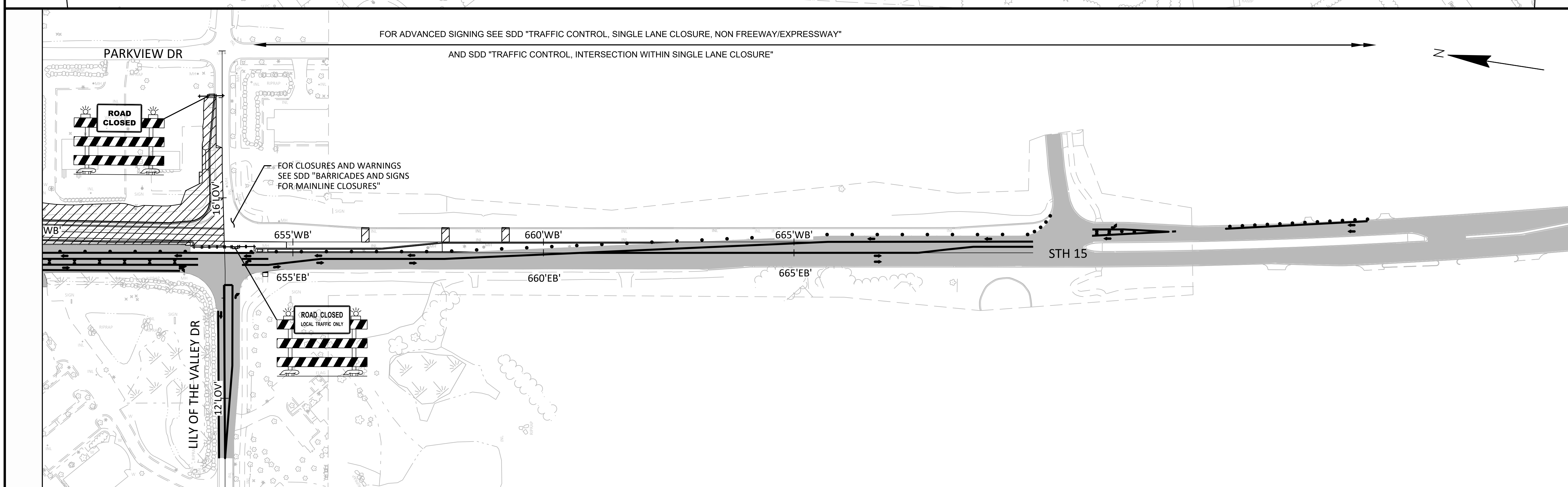
NOTES

1. CLOSURES ON NORTH ROAD AND JULIUS DRIVE SHALL NOT OVERLAP.
2. JULIUS DRIVE CLOSURE SHALL NOT EXCEED 21 DAYS IN DURATION.

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2A DETAIL - STH 15	SHEET E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026302-TC.DWG
LAYOUT NAME - TC2A-04
PLOT DATE : 2/5/2020 1:07 PM
PLOT BY : BUGARIN, JOSE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT





PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2A DETAIL - STH 15	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\GFERGUS1\D1086473\11467572-026302-TC.DWG
LAYOUT NAME - TC2A-05
PLOT DATE : 5/14/2020 7:19 AM
PLOT BY : FERGUSON, GARY/MKE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44

2

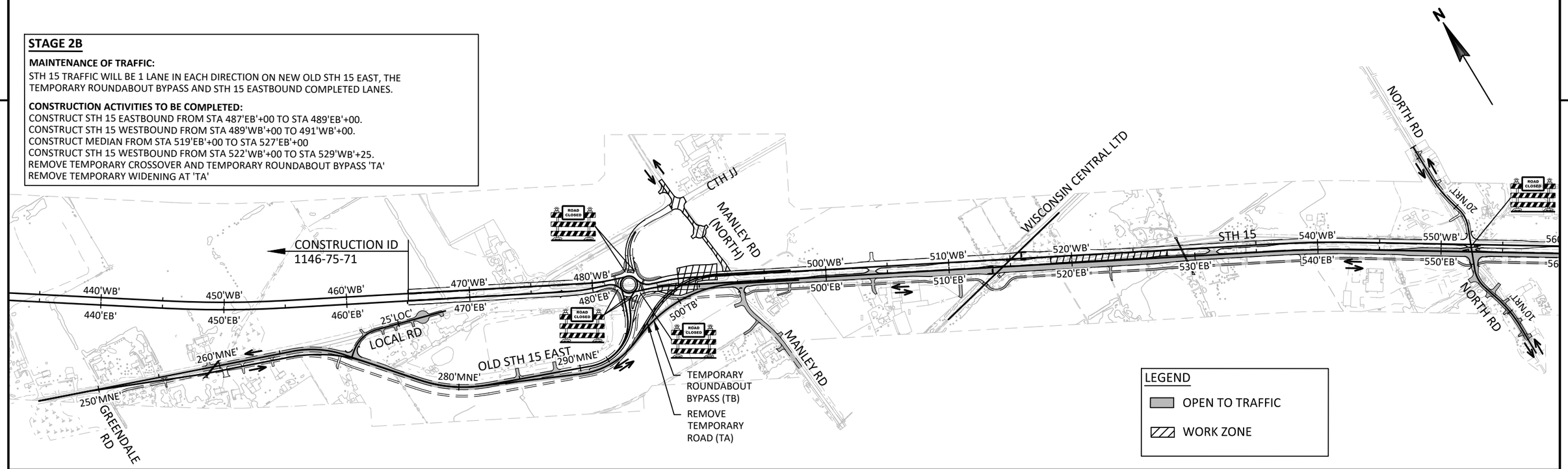
STAGE 2B

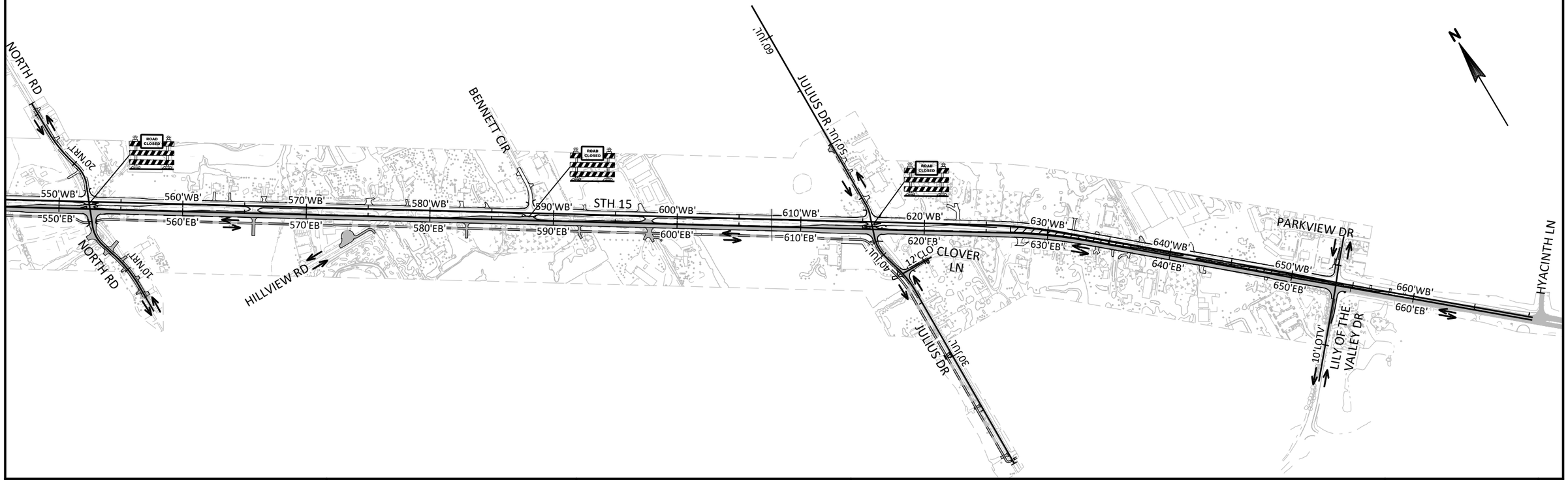
MAINTENANCE OF TRAFFIC:

STH 15 TRAFFIC WILL BE 1 LANE IN EACH DIRECTION ON NEW OLD STH 15 EAST, THE TEMPORARY ROUNDABOUT BYPASS AND STH 15 EASTBOUND COMPLETED LANES.

CONSTRUCTION ACTIVITIES TO BE COMPLETED:

CONSTRUCT STH 15 EASTBOUND FROM STA 487'EB'+00 TO STA 489'EB'+00.
CONSTRUCT STH 15 WESTBOUND FROM STA 489'WB'+00 TO 491'WB'+00.
CONSTRUCT MEDIAN FROM STA 519'EB'+00 TO STA 527'EB'+00
CONSTRUCT STH 15 WESTBOUND FROM STA 522'WB'+00 TO STA 529'WB'+25.
REMOVE TEMPORARY CROSSOVER AND TEMPORARY ROUNDABOUT BYPASS 'TA'
REMOVE TEMPORARY WIDENING AT 'TA'





PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2B OVERVIEW	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026401A-TC.DWG
LAYOUT NAME - TC 2B OVERVIEW
PLOT DATE : 2/5/2020 1:11 PM
PLOT BY : BUGARIN, JOSE
PLOT NAME :
PLOT SCALE : ##########

2

450'EB'

455'EB'

N

C-44-0128

OLD STH 15 EAST

250'MNE'

255'MNE'

265'MNE'

SPEED LIMIT 45 R2-1

GREENDALE RD

MATCH LINE STA 269'MNE'+00

LEGEND

OPEN TO TRAFFIC

WORK ZONE

460'WB'

460'EB'

465'WB'

465'EB'

470'WB'

470'EB'

475'WB'

475'EB'

STH 15

480'WB'

480'EB'

LOCAL RD

EQUATION

STA AHEAD = 484'WB'+71.21
STA BACK = 483'WB'+97.06

EQUATION

STA AHEAD = 484'EB'+63.94
STA BACK = 483'EB'+89.82

CTH JJ

500'JJW

300'JJE

485'WB'

485'EB'

498'MNW'

494'MNW'

295'MNE'

501'TB'

498'TB'

495'TB'

W TPMP

DY TPMP

ROAD CLOSED

TEMPORARY ROUNDABOUT BYPASS (TB)

MATCH LINE STA 269'MNE'+00

270'MNE'

275'MNE'

OLD STH 15 EAST

280'MNE'

290'MNE'

2

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2B DETAIL - OLD STH 15 EAST	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026402-TC.DWG
LAYOUT NAME - TC2B-01

PLOT DATE : 2/5/2020 1:14 PM PLOT BY : BUGARIN, JOSE PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

2

ROAD CLOSED

310'JJE'

FOR ADVANCED SIGNS SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

505'JJW'

305'JJE'

MANLEY RD (NORTH)

FOR SHOULDER CLOSER SEE SDD "TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD"

FOR ADVANCED SIGNING SEE SDD "TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD.

EQUATION

STA AHEAD = 484'WB'+71.21
STA BACK = 483'WB'+97.06

EQUATION

STA AHEAD = 484'EB'+63.94
STA BACK = 483'EB'+89.82

CTH JJ

FOR SHOULDER CLOSER SEE SDD "TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD"

DY TPMRT

W TPMRT

470'WB'

475'WB'

480'WB'

485'WB'

490'WB'

495'WB'

500

STH 15

470'EB'

475'EB'

480'EB'

485'EB'

490'EB'

495'EB'

500

MATCH LINE STA 500'EB'+00

504'TB'

1004'MUT'

1008'MUT'

501'TB'

NO LEFT TURN

PERMANENT PAVEMENT MARKING, SEE PAVEMENT MARKING PLAN

ROAD CLOSED

498'TB'

W TPMP

DY TPMP

ROAD CLOSED

ROAD CLOSED

494'MNW'

295'MNE'

495'TB'

TEMPORARY ROUNDABOUT BYPASS (TB)

MANLEY RD

290'MNE'

OLD STH 15 EAST

280'MNE'

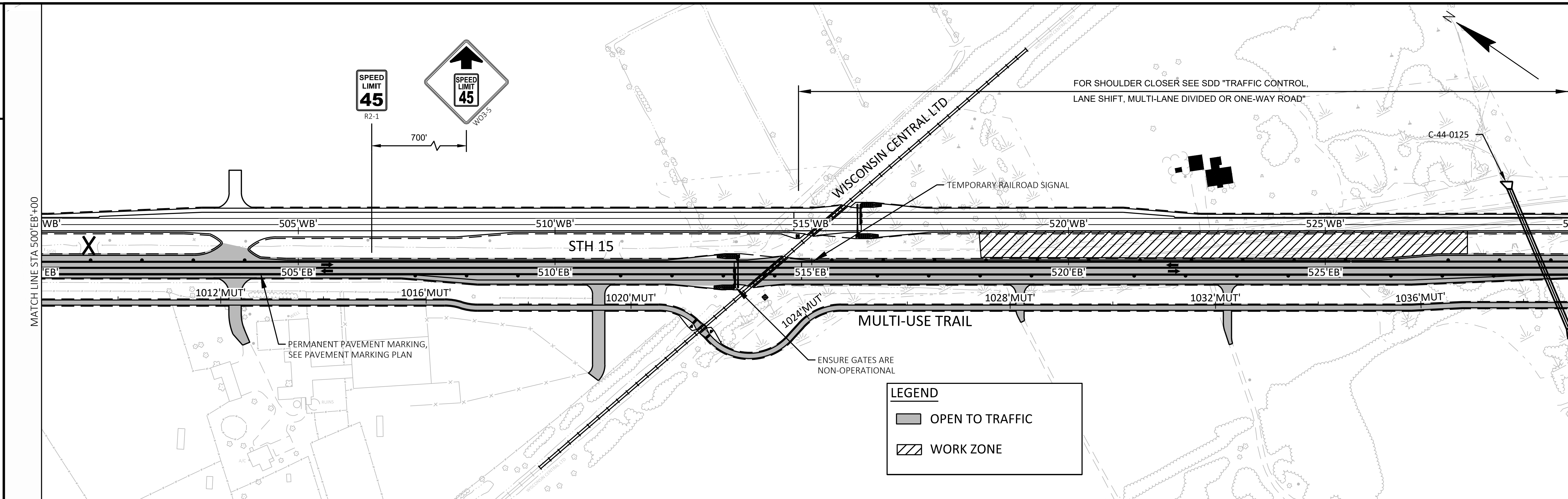
MULTI-USE TRAIL

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2B DETAIL - STH 15	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\GFERGUS1\D1086473\11467572-026402-TC.DWG
LAYOUT NAME - TC2B-02

PLOT DATE : 5/6/2020 10:39 AM PLOT BY : FERGUSON, GARY/MKE PLOT NAME : PLOT SCALE : ##########

2



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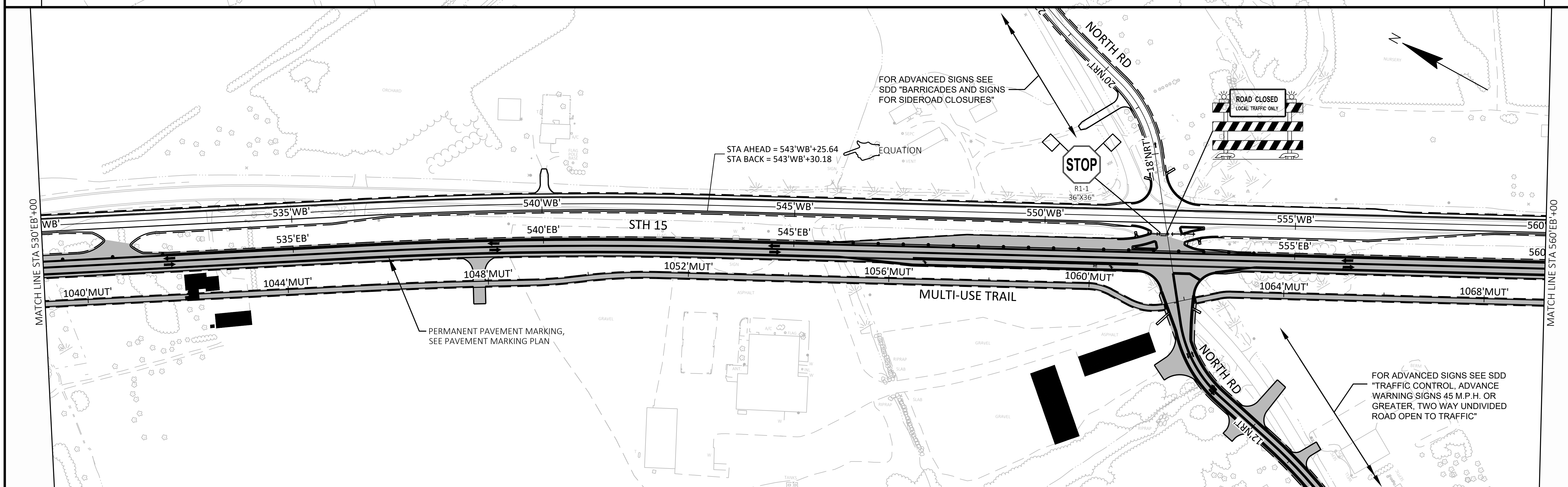


PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2B DETAIL - STH 15	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\GFERGUS1\D1086473\11467572-026402-TC.DWG
LAYOUT NAME - TC2B-03
PLOT DATE : 5/15/2020 8:36 AM
PLOT BY : FERGUSON, GARY/MKE
PLOT NAME :
PLOT SCALE : ###########

2

FOR ADVANCED SIGNS SEE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"

FOR SHOULDER CLOSER SEE SDD "TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD"

BENNETT CIR

234'BEN'

234'BEN'

STOP
R1-1
36"X36"

MATCH LINE STA 560'EB'+00

WB' 565'WB' 570'WB' 575'WB' 580'WB' 585'WB' 590

'EB' 565'EB' 575'EB' 580'EB' 590

STH 15

1072'MUT' 1076'MUT' 1080'MUT' 1084'MUT' 1088'MUT' 1092'MUT' 1096'MUT'

MATCH LINE STA 560'EB'+00

23'HIL'

21'HIL'

HILLVIEW RD

ROAD CLOSED
LOCAL TRAFFIC ONLY

LEGEND

OPEN TO TRAFFIC

WORK ZONE

MATCH LINE STA 590'EB'+00

WB' 595'WB' 600'WB' 605'WB' 610'WB' 615'WB' 620

'EB' 595'EB' 600'EB' 605'EB' 610'EB'

STH 15

1100'MUT' 1104'MUT' 1108'MUT' 1112'MUT' 1116'MUT' 1120'MUT' 1124'MUT'

NO PASSING ZONE
W14-3
48"X36"

MATCH LINE STA 590'EB'+00

JULIUS DR

461'JUL'

FOR CLOSURE OF JULIUS DRIVE NORTH OF STH 15, SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" FOR ADVANCED WARNING SIGNS

STOP
R1-1
36"X36"

ROAD CLOSED

441'JUL'

FOR ADVANCED WARNING SIGNS, SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

JULIUS DR

140'MUT'

140'JUL'

138'MUT'

138'JUL'

12'C

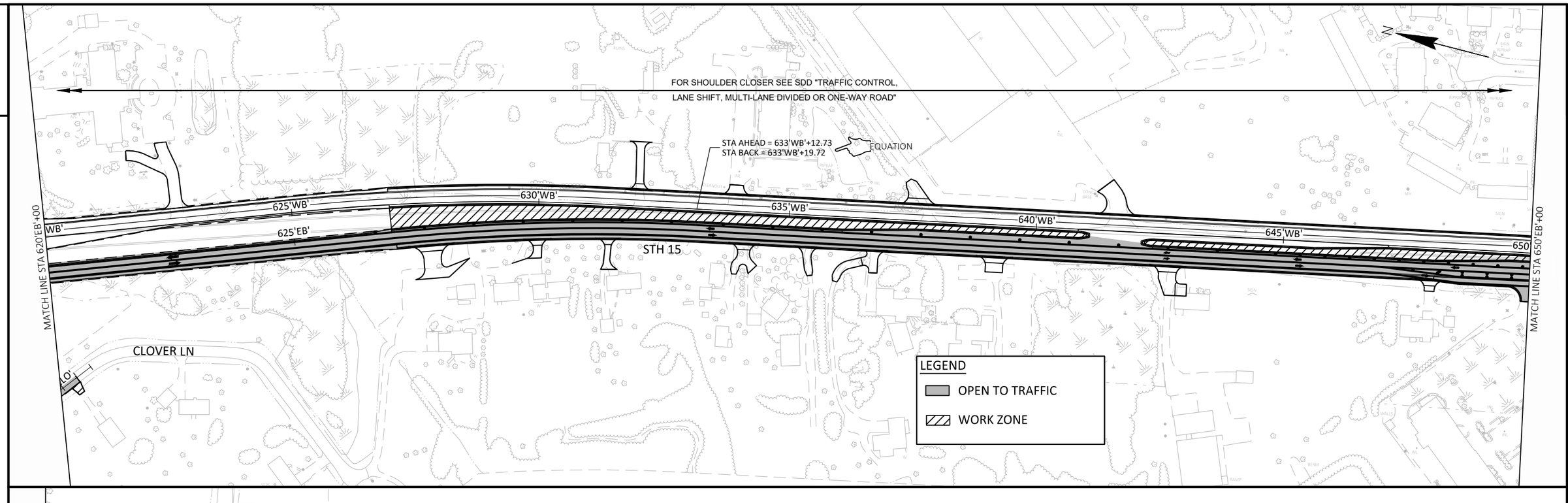
MATCH LINE STA 620'EB'+00

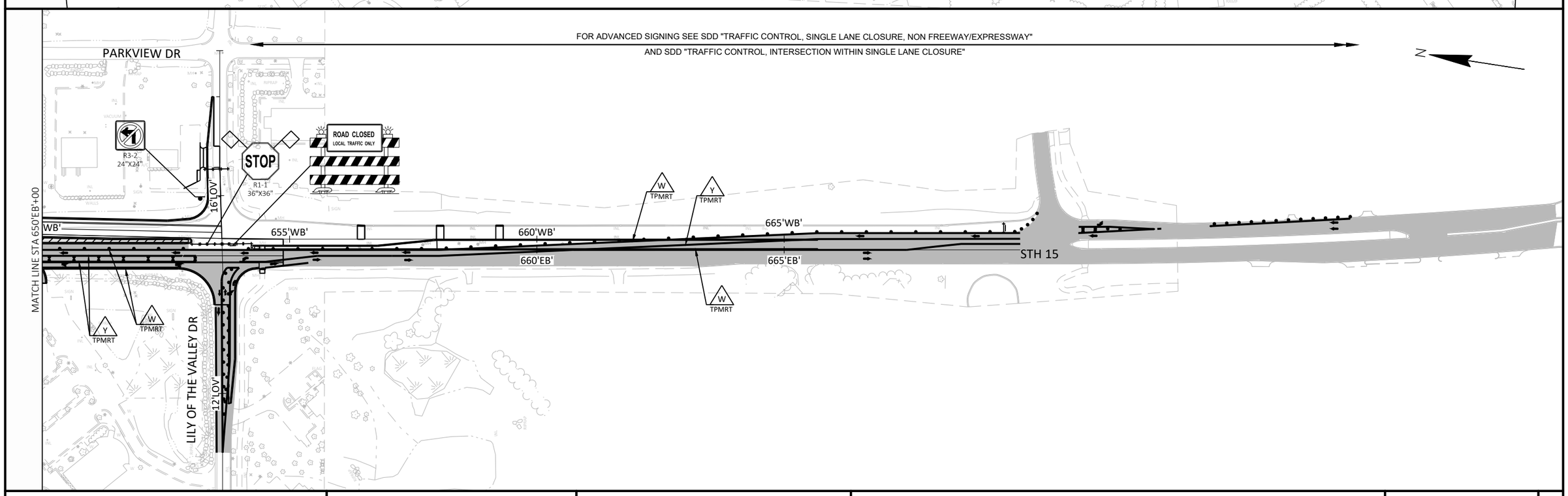
PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2B DETAIL - STH 15	SHEET E

FILE NAME : C:\PW_WORKDIR\DEN001\GFERGUS1\D1086473\11467572-026402-TC.DWG
LAYOUT NAME - TC2B-04

PLOT DATE : 5/15/2020 8:38 AM PLOT BY : FERGUSON, GARY/MKE PLOT NAME : PLOT SCALE : ##########

2





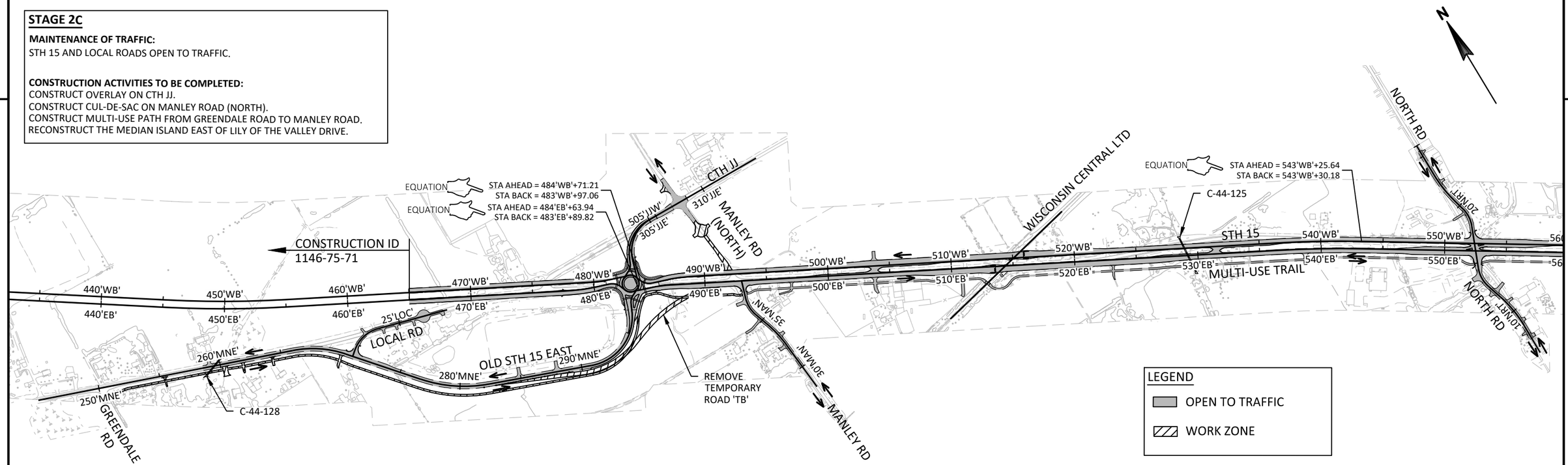
PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2B DETAIL - STH 15	SHEET	E

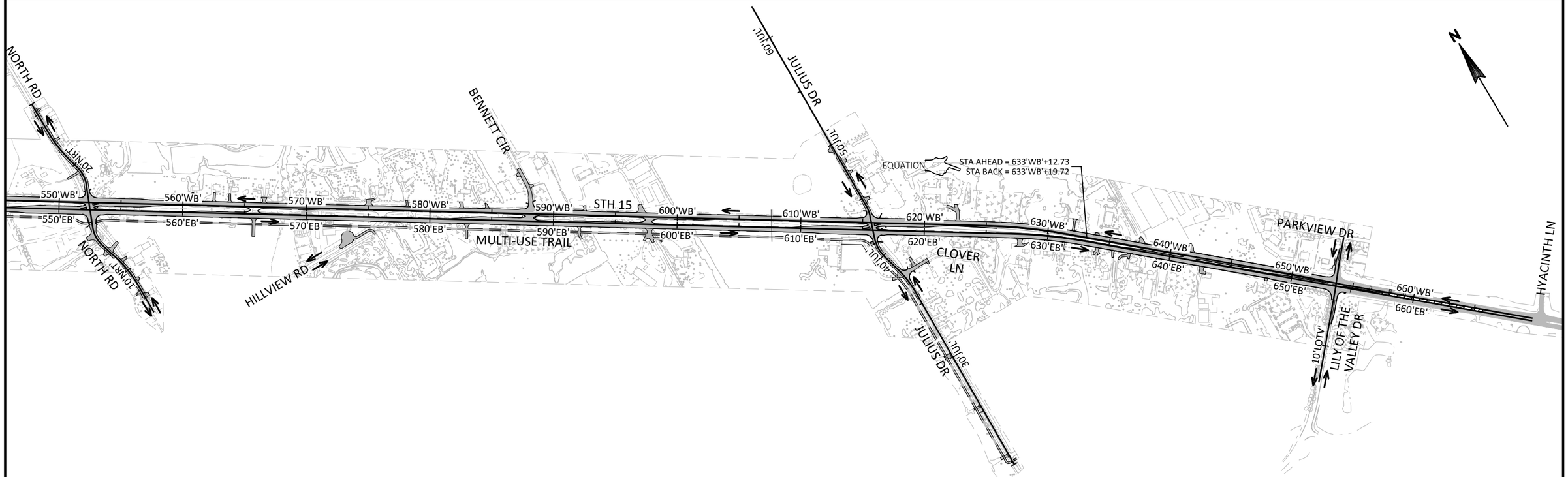
FILE NAME : C:\PW_WORKDIR\DEN001\GFERGUS1\D1086473\11467572-026402-TC.DWG
LAYOUT NAME - TC2B-05
PLOT DATE : 5/15/2020 8:39 AM
PLOT BY : FERGUSON, GARY/MKE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

STAGE 2C

MAINTENANCE OF TRAFFIC:
STH 15 AND LOCAL ROADS OPEN TO TRAFFIC.

CONSTRUCTION ACTIVITIES TO BE COMPLETED:
CONSTRUCT OVERLAY ON CTH JJ.
CONSTRUCT CUL-DE-SAC ON MANLEY ROAD (NORTH).
CONSTRUCT MULTI-USE PATH FROM GREENDALE ROAD TO MANLEY ROAD.
RECONSTRUCT THE MEDIAN ISLAND EAST OF LILY OF THE VALLEY DRIVE.





PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2C OVERVIEW	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026501A-TC.DWG
LAYOUT NAME - TC 2C OVERVIEW
PLOT DATE : 2/5/2020 1:20 PM
PLOT BY : BUGARIN, JOSE
PLOT NAME :
PLOT SCALE : ##########

2

2

LEGEND

OPEN TO TRAFFIC

WORK ZONE

450'EB'

455'EB'

N

OLD STH 15 EAST

252'MNE'

256'MNE'

264'MNE'

268'MNE'

948'MUT'

MULTI-USE TRAIL

GREENDALE RD

MATCH LINE STA 269'MNE'+00

460'WB'

460'EB'

465'WB'

465'EB'

470'WB'

470'EB'

475'WB'

475'EB'

480'WB'

480'EB'

485'WB'

485'EB'

EQUATION

STA AHEAD = 484'WB'+71.21
STA BACK = 483'WB'+97.06

EQUATION

STA AHEAD = 484'EB'+63.94
STA BACK = 483'EB'+89.82

LOCAL RD

MATCH LINE STA 269'MNE'+00

64'MUT'

FOR ADVANCED SIGNING SEE SDD
"TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE
DIVIDED OR ONE-WAY ROAD.

FOR SHOULDER CLOSER SEE SDD
"TRAFFIC CONTROL, LANE SHIFT,
MULTI-LANE DIVIDED OR ONE-WAY ROAD"

968'MUT'

MULTI-USE TRAIL

OLD STH 15 EAST

972'MUT'

976'MUT'

980'MUT'

984'MUT'

988'MUT'

992'MUT'

996'MUT'

280'MNE'

284'MNE'

288'MNE'

292'MNE'

296'MNE'

STA AHEAD = 966'MUT'+00.00
STA BACK = 966'MUT'+03.16

EQUATION

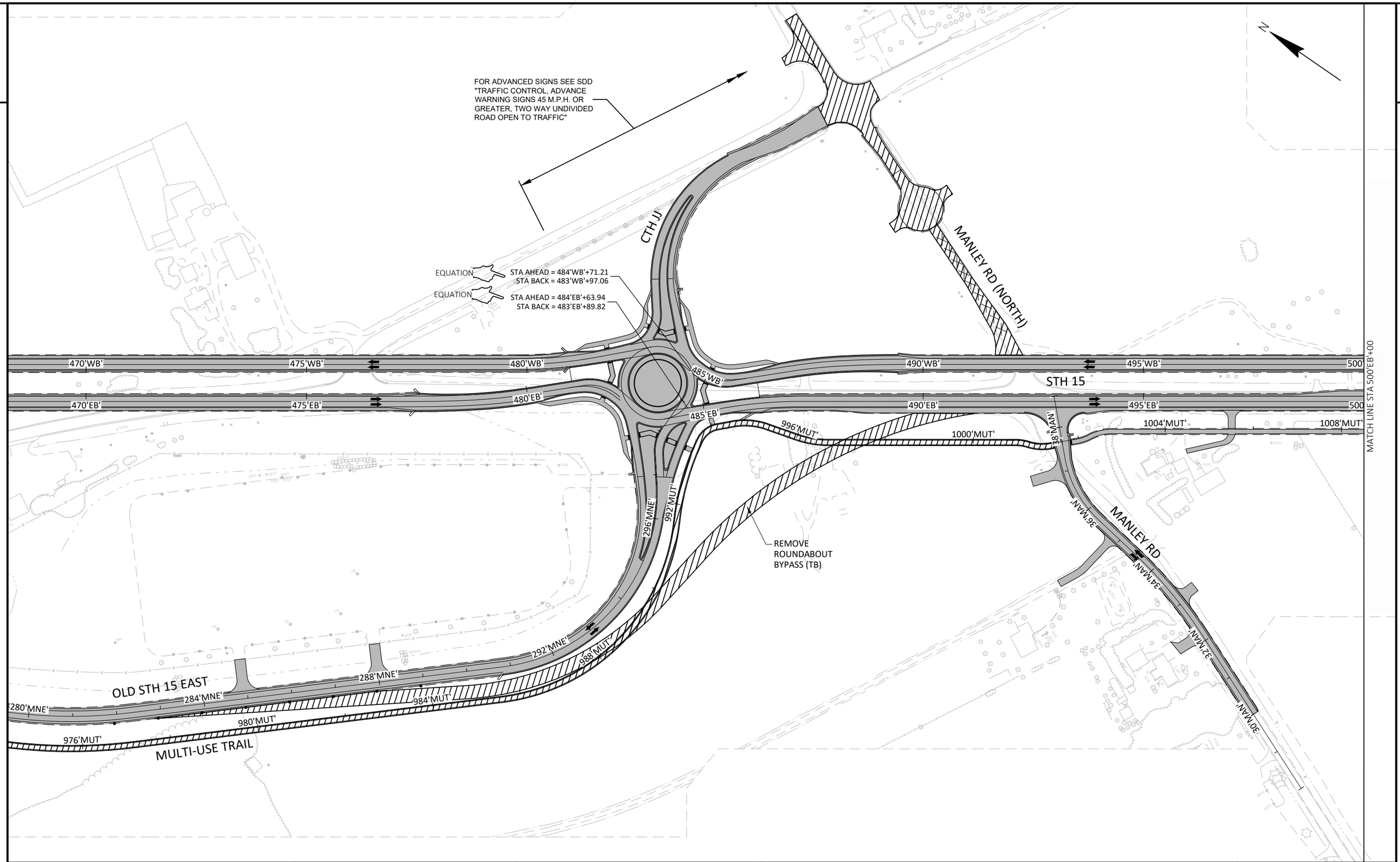
REMOVE
ROUNDABOUT
BYPASS (TB)

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2C DETAIL - OLD STH 15 EAST	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026502-TC.DWG
LAYOUT NAME - TC2C-01

PLOT DATE : 2/5/2020 1:23 PM PLOT BY : BUGARIN, JOSE PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

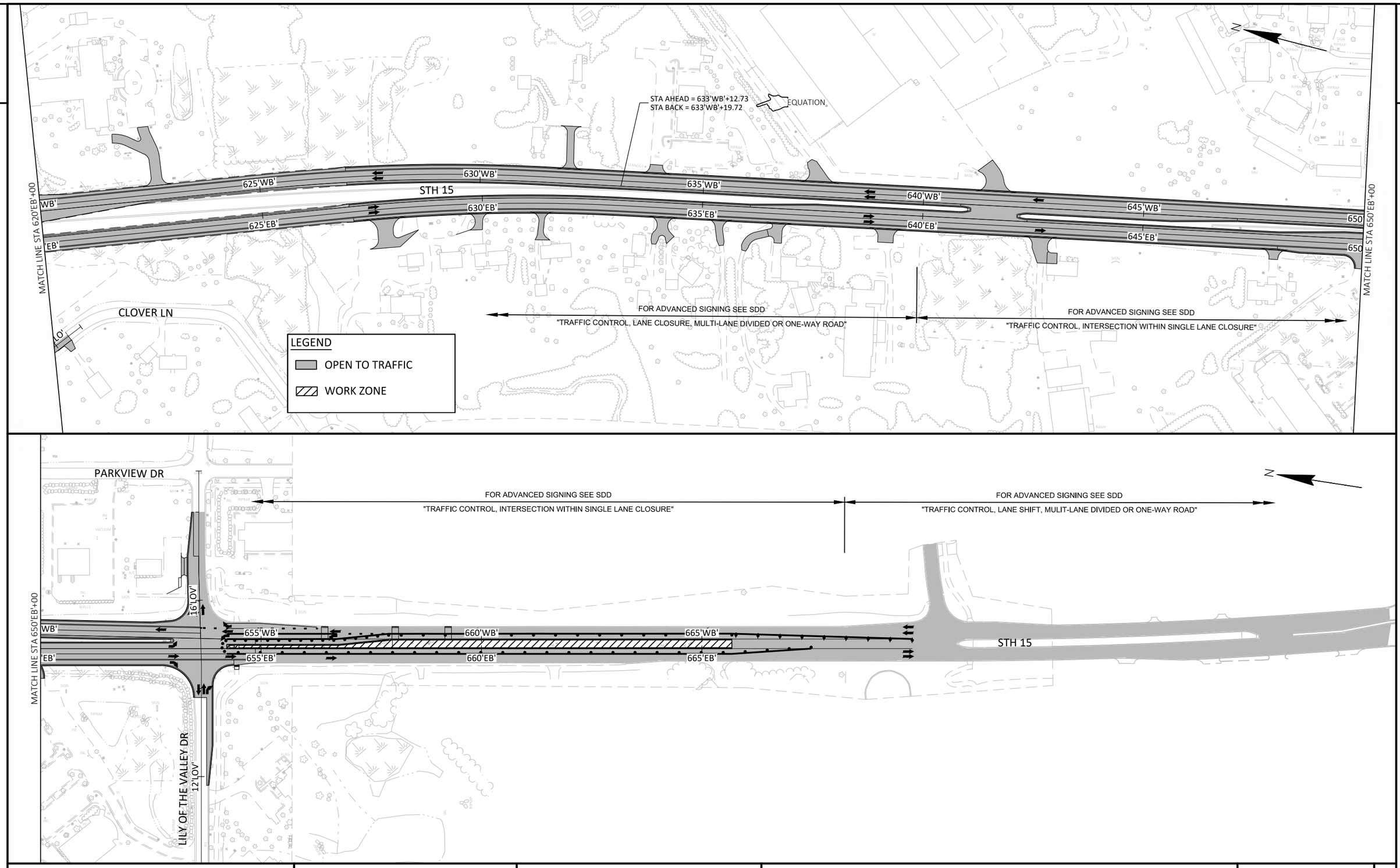


PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2C DETAIL - STH 15	SHEET	E

FILE NAME : C:\PW_WORKDIR\DEN001\JEG_BUGARIJA\D1086473\11467572-026502-TC.DWG
LAYOUT NAME - TC2C-02

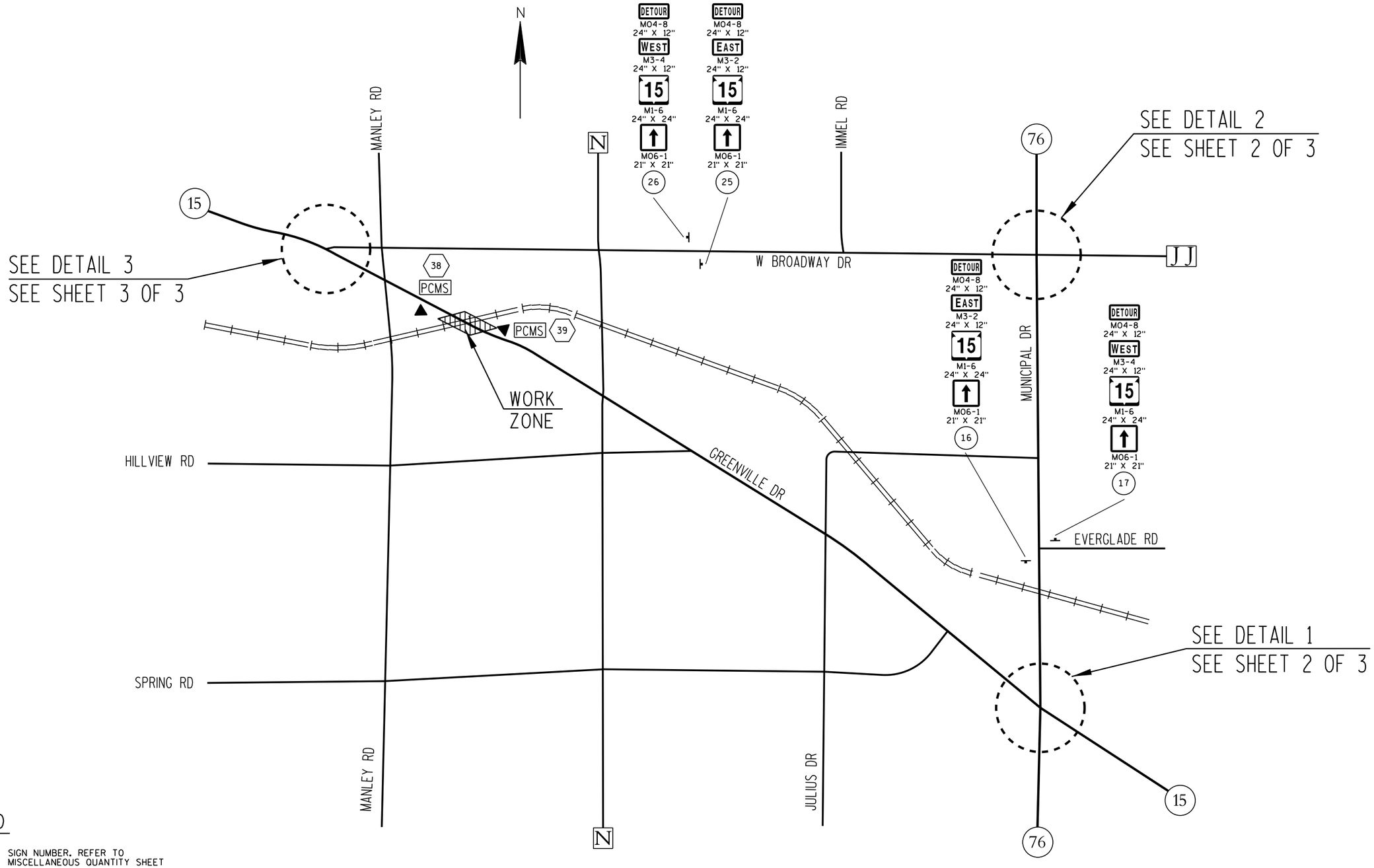
PLOT DATE : 2/5/2020 1:23 PM PLOT BY : BUGARIN, JOSE PLOT NAME : PLOT SCALE : ##########

2



PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	TRAFFIC CONTROL - STAGE 2C DETAIL - STH 15	SHEET	E

2



LEGEND

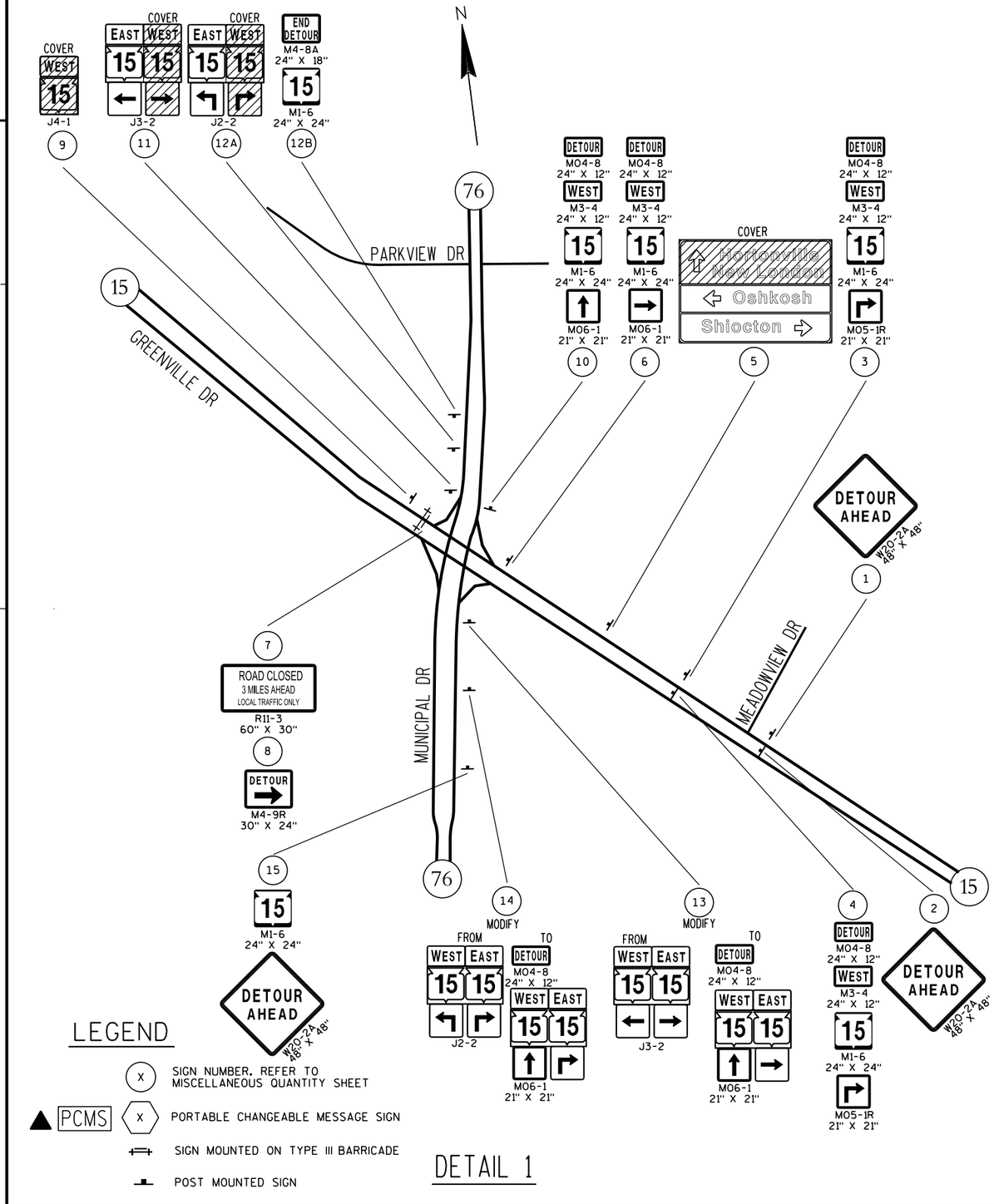
- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

SHEET 1 OF 3

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	DETOUR SIGNING DETAIL	SHEET	E

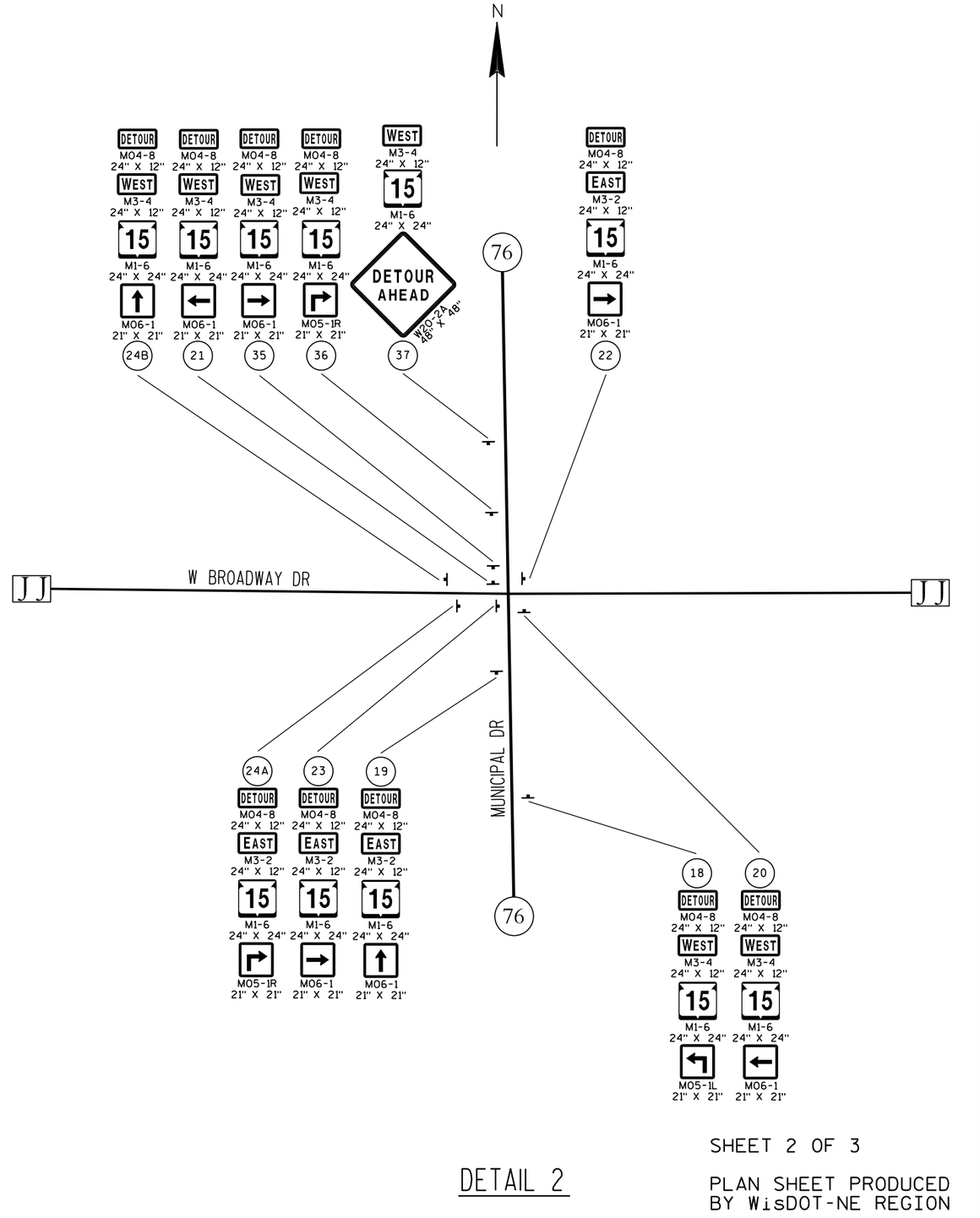
FILE NAME : N:\spo\traffic\A Work Zone\Detours\Outagamie County\STH 15\15 Major pre 4 lane\RR east of Hortonville\027001_dt.dgn PLOT DATE : 19-AUG-2019 07:31 PLOT BY : dotj1f PLOT NAME : PLOT SCALE : 200:1



LEGEND

- (X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

DETAIL 1



DETAIL 2

SHEET 2 OF 3

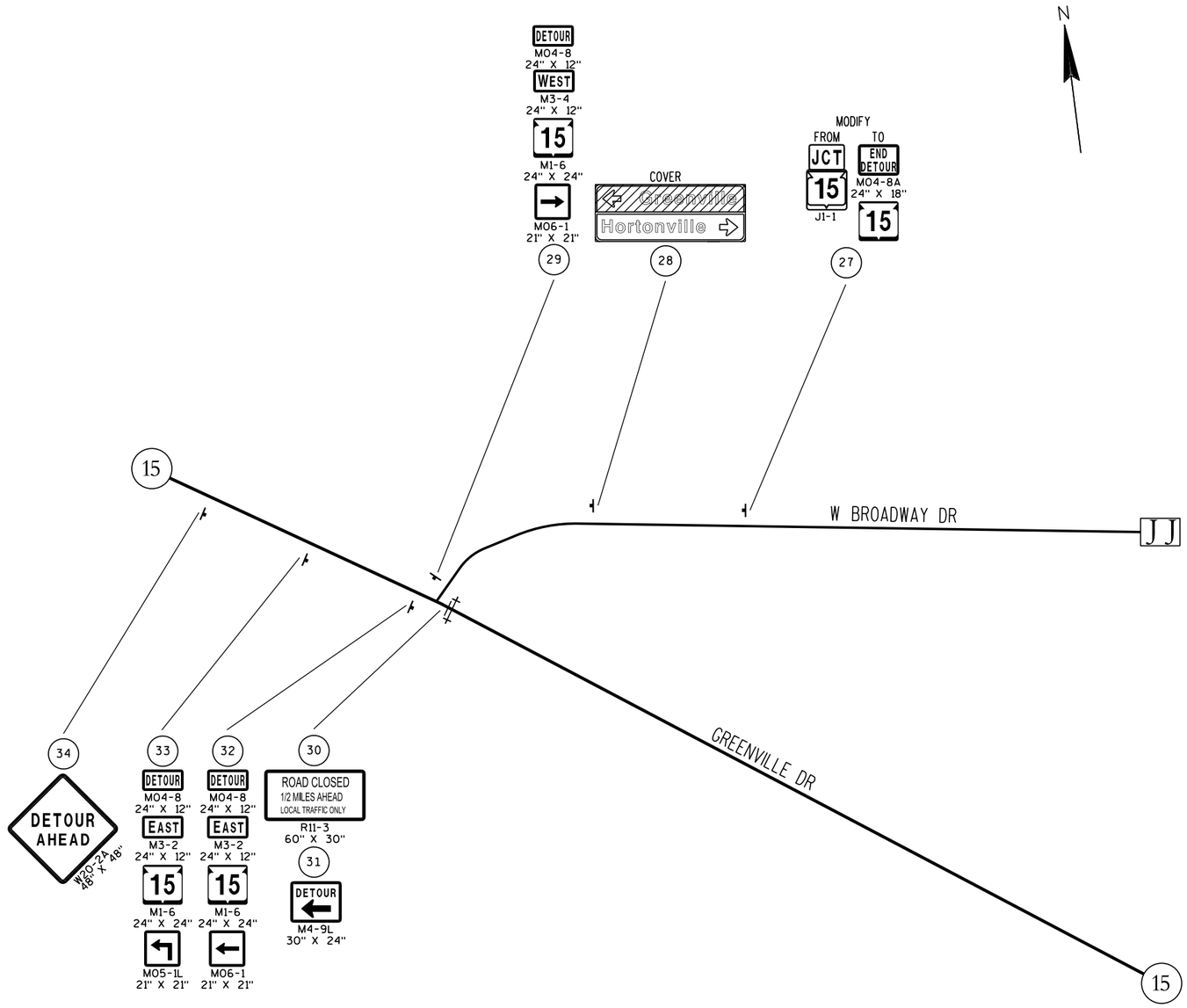
PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	DETOUR SIGNING DETAIL	SHEET	E

FILE NAME : N:\spo\traffic\A Work Zone\Detours\Outagamie County\STH 15\15 Major pre 4 lane\RR east of Hortonville\027002_dt.dgn PLOT DATE : 19-AUG-2019 07:31 PLOT BY : dotj1f PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2



LEGEND

- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

DETAIL 3

SHEET 3 OF 3

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1146-75-72	HWY: STH 15	COUNTY: OUTAGAMIE	DETOUR SIGNING DETAIL	SHEET	E

FILE NAME : N:\spo\traffic\A Work Zone\Detours\Outagamie County\STH 15\15 Major pre 4 lane\RR east of Hortonville\027003_dt.dgn PLOT DATE : 19-AUG-2019 07:31 PLOT BY : dotjlf PLOT NAME : PLOT SCALE : 200:1

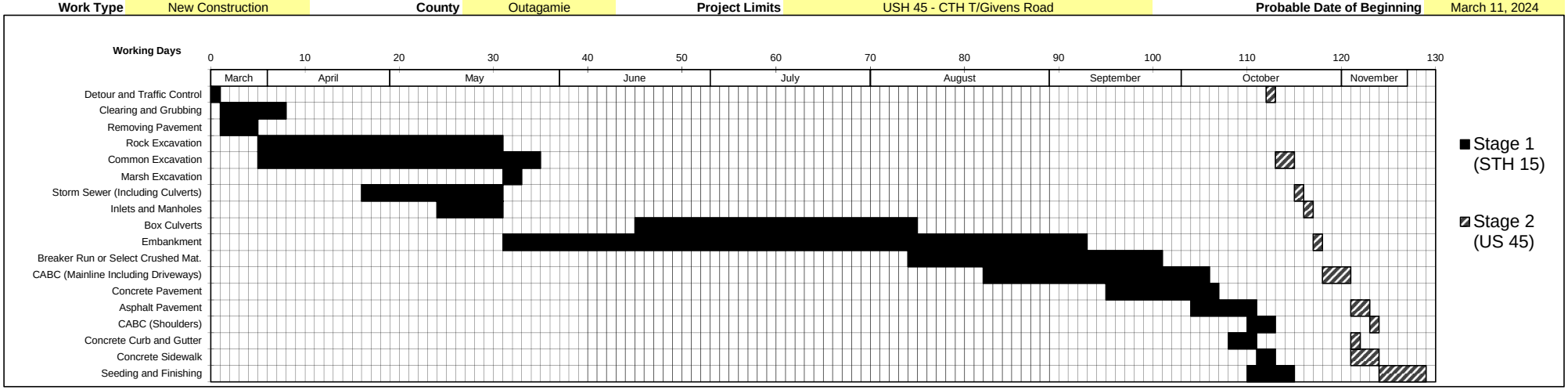
ATTACHMENT 7

CONTRACT TIME FOR COMPLETION

Wisconsin Department of Transportation DT1923 09/2010

Project ID	1146-75-73	**Highway**	STH 15	**Project Title**	STH 76 - New London
Work Type	New Construction	**County**	Outagamie	**Project Limits**	USH 45 - CTH T/Givens Road

Date of Letting	November 14, 2023
Probable Date of Beginning	March 11, 2024



ITEM ANALYSIS

Item	Contract Quantity per Stage					Total Quantity	Unit	Production Rate	Working Days (per Stage)	Stage 1 (STH 15)		Stage 2 (US 45)							
	Stage 1 (STH 15)	Stage 2 (US 45)	0	0	0					Begin	End	Begin	End	Begin	End	Begin	End	Begin	End
Detour and Traffic Control	1	1				2	Days	1	1 / 1 / / /	0	1	112	113						
Clearing and Grubbing	192					192	STA	30	7 / / / /	1	8								
Removing Pavement	14,678					14,678	SY	4000	4 / / / /	1	5								
Rock Excavation	45,581					45,581	CY	1800	26 / / / /	5	31								
Common Excavation	233,422	8,377				241,799	CY	8000	30 / 2 / / /	5	35	113	115						
Marsh Excavation	3,761					3,761	CY	2000	2 / / / /	31	33								
Storm Sewer (Including Culverts)	5,672	156				5,828	LF	400	15 / 1 / / /	16	31	115	116						
Inlets and Manholes	40	4				44	Each	6	7 / 1 / / /	24	31	116	117						
Box Culverts	439					439	CY	15	30 / / / /	45	75								
Embankment	244,139	716				244,855	Tons	4000	62 / 1 / / /	31	93	117	118						
Breaker Run or Select Crushed Mat.	91,542					91,542	Tons	3500	27 / / / /	74	101								
CABC (Mainline Including Driveways)	92,553	9,704				102,257	Tons	4000	24 / 3 / / /	82	106	118	121						
Concrete Pavement	90,328					90,328	SY	8000	12 / / / /	95	107								
Asphalt Pavement	12,238	2,544				14,782	Tons	2000	7 / 2 / / /	104	111	121	123						
CABC (Shoulders)	4,998	138				5,136	Tons	2000	3 / 1 / / /	110	113	123	124						
Concrete Curb and Gutter	4,320	1,442				5,762	LF	1500	3 / 1 / / /	108	111	121	122						
Concrete Sidewalk	1,968	2,142				4,110	SF	1000	2 / 3 / / /	111	113	121	124						
Seeding and Finishing	5	5				10	Days	1	5 / 5 / / /	110	115	124	129						

Month	Date		Days			Possible Work Days	Probable Working Days %	Month	Total
	Begin	End	Month	Total	Holiday				
			0	0		0		0	0
			0	0		0		0	0
March	3/18/2024	3/31/2024	14	14	0	10	58	6	6
April	4/1/2024	4/30/2024	30	44	0	22	58	13	19
May	5/1/2024	5/31/2024	31	75	1	22	80	18	37
June	6/1/2024	6/30/2024	30	105	0	20	80	16	53
July	7/1/2024	7/31/2024	31	136	2.5	21	85	17	70
August	8/1/2024	8/31/2024	31	167	0	22	85	19	89
September	9/1/2024	9/30/2024	30	197	1	20	72	14	103
October	10/1/2024	10/31/2024	31	228	0	23	72	17	120
November	11/1/2024	11/15/2024	15	243	0	11	60	7	127
			0	243		0		0	127

CONSTRUCTION YEAR: 2024

REMARKS

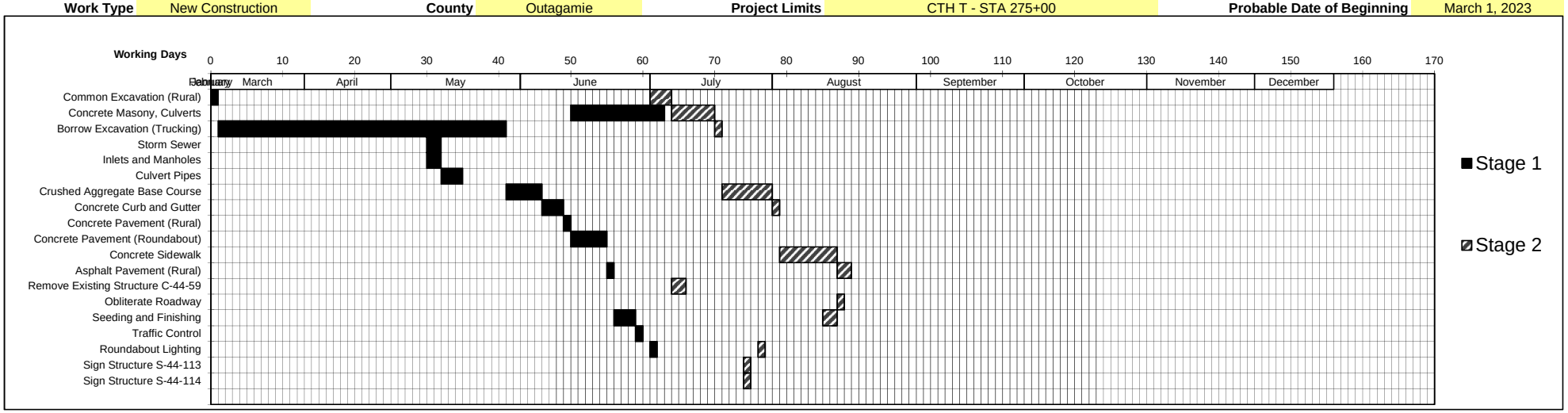
Calendar Days	243
Working Days	127
Completion Date	November 15, 2024
Prepared By	A. Farrell

CONTRACT TIME FOR COMPLETION

Wisconsin Department of Transportation DT1923 04/2011

Project ID	1146-75-76	**Highway**	STH 15	**Project Title**	WIS 76 - New London
Work Type	New Construction	**County**	Outagamie	**Project Limits**	CTH T - STA 275+00

Date of Letting	November 8, 2022
Probable Date of Beginning	March 1, 2023



ITEM ANALYSIS

Item	Contract Quantity per Stage					Total Quantity	Unit	Production Rate	Working Days (per Stage)	Stage 1		Stage 2		Stage 3		Stage 4		Stage 5	
	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5					Begin	End	Begin	End	Begin	End	Begin	End	Begin	End
Common Excavation (Rural)	2,795	20,032				22,827	CY	8250	1 / 3 / / /	0	1	61	64						
Concrete Masony, Culverts	126	56				182	CY	10	13 / 6 / / /	50	63	64	70						
Borrow Excavation (Trucking)	99,121	1,900				101,021	CY	2500	40 / 1 / / /	1	41	70	71						
Storm Sewer	347					347	LF	200	2 / / / /	30	32								
Inlets and Manholes	6					6	Each	3	2 / / / /	30	32								
Culvert Pipes	498					498	LF	200	3 / / / /	32	35								
Crushed Aggregate Base Course	15,660	24,064				39,724	Tons	3750	5 7	41	46	71	78						
Concrete Curb and Gutter	4,056	1,550				5,606	LF	2000	3 / 1 / / /	46	49	78	79						
Concrete Pavement (Rural)	6,307					6,307	SY	8750	1 / / / /	49	50								
Concrete Pavement (Roundabout)	5,250					5,250	CY	1200	5 / / / /	50	55								
Concrete Sidewalk		22,113				22,113	SF	3000	/ 8 / / /			79	87						
Asphalt Pavement (Rural)	798	4,059				4,857	Tons	2250	1 / 2 / / /	55	56	87	89						
Remove Existing Structure C-44-59		1				1	LS	0.5	/ 2 / / /			64	66						
Obliterate Roadway		11				11	STA	15	/ 1 / / /			87	88						
Seeding and Finishing	39,074	22,852				61,926	S.Y.	15000	3 / 2 / / /	56	59	85	87						
Traffic Control	1					1	LS	1	1 / / / /	59	60								
Roundabout Lighting	1	1				1	LS	1	1 / 1 / / /	61	62	76	77						
Sign Structure S-44-113		1				1	LS	1	/ 1 / / /			74	75						
Sign Structure S-44-114		1				1	LS	1	/ 1 / / /			74	75						
									/ / / /										

Month	Date		Days			Possible Work Days	Probable Working Days %	Probable Working Days Month	Probable Working Days Total
	Begin	End	Month	Total	Holiday				
January	1/1/2023	1/31/2023	31	31		22	0	0	0
February	2/1/2023	2/28/2023	28	59		20	0	0	0
March	3/1/2023	3/31/2023	31	90		23	58	13	13
April	4/1/2023	4/30/2023	30	120		20	58	12	25
May	5/1/2023	5/31/2023	31	151	1	22	80	18	43
June	6/1/2023	6/30/2023	30	181		22	80	18	61
July	7/1/2023	7/31/2023	31	212	1	20	85	17	78
August	8/1/2023	8/31/2023	31	243		23	85	20	98
September	9/1/2023	9/30/2023	30	273	1	20	76	15	113
October	10/1/2023	10/31/2023	31	304		22	77	17	130
November	11/1/2023	11/30/2023	30	334		22	70	15	145
December	12/1/2023	12/31/2023	31	365		21	50	11	156

CONSTRUCTION YEAR: 2023

REMARKS

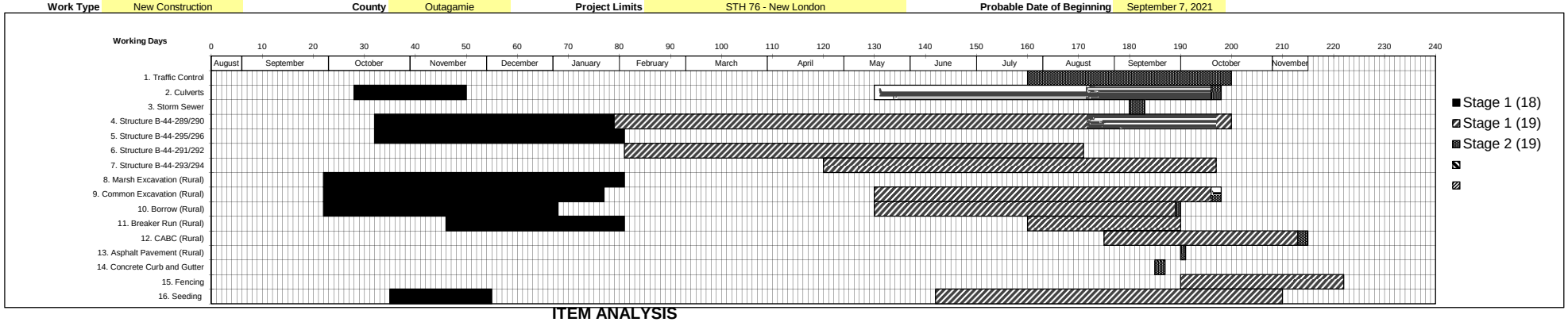
Calendar Days	173
Working Days	91
Completion Date	August 20, 2023
Prepared By	Mason Simmons

CONTRACT TIME FOR COMPLETION

Wisconsin Department of Transportation DT1923 04/2011

Project ID	1146-75-71	**Highway**	STH 15	**Project Title**	(CTH T/Givens Road - CTH JJ/Manley Road)
Work Type	New Construction	**County**	Outagamie	**Project Limits**	STH 76 - New London

Date of Letting July 10, 2021
Probable Date of Beginning September 7, 2021



ITEM ANALYSIS

Item	Contract Quantity per Stage					Total Quantity	Unit	Production Rate	Working Days (per Stage)	Stage 1 (18)		Stage 1 (19)		Stage 2 (19)					
	Year 1	Year 2								Begin	End	Begin	End	Begin	End	Begin	End	Begin	End
1. Traffic Control	0	40				40	Days	1	0 / 0 / 40 / /					160	200				
2. Culverts	11	33	5			49	EACH	0.5	22 / 66 / 2 / /	28	50	130	196	185	187				
3. Storm Sewer	0	0	516			516	LF	200	0 / 0 / 3 / /	22	22	150	150	180	183				
4. Structure B-44-289/290	7,000	18,112				25,112	SF	150	47 / 121 / / /	32	79	79	200						
5. Structure B-44-295/296	7,310					7,310	SF	150	49 / / / /	32	81								
6. Structure B-44-291/292	0	13,416				13,416	SF	150	0 / 90 / / /			81	171						
7. Structure B-44-293/294	0	11,481				11,481	SF	150	0 / 77 / / /			120	197						
8. Marsh Excavation (Rural)	116,785					116,785	CY	2000	59 / / / /	22	81								
9. Common Excavation (Rural)	380,000	458,000	13,500			851,500	CY	7000	55 / 66 / 2 / /	22	77	130	196	180	182				
10. Borrow (Rural)	365,000	469,441	1,000			835,441	CY	8000	46 / 59 / 1 / /	22	68	130	189	180	181				
11. Breaker Run (Rural)	103,250	88,700				191,950	TON	3000	35 / 30 / / /	46	81	160	190						
12. CABC (Rural)		112,350	4,500			116,850	TON	3000	/ 38 / 2 / /			175	213	183	185				
13. Asphalt Pavement (Rural)			1,660			1,660	TON	3000	/ / 1 / /					190	191				
14. Concrete Curb and Gutter			1,240			1,240	LF	1000	/ / 2 / /					185	187				
15. Fencing		47,540				47,540	LF	1500	/ 32 / / /			190	222						
16. Seeding	100,000	337,000				437,000	SY	5000	20 / 68 / / /	35	55	142	210						

Month	Date		Days			Possible Work Days	Probable Working Days %	Month	Total
	Begin	End	Month	Total	Holiday				
August	8/23/2021	8/31/2021	9	9		7	85	6	6
September	9/1/2021	9/30/2021	30	39		22	76	17	23
October	10/1/2021	10/31/2021	31	70		21	77	16	39
November	11/1/2021	11/30/2021	30	100		22	70	15	54
December	12/1/2021	12/31/2021	31	131		23	58	13	67
January	1/1/2022	1/31/2022	31	162		21	61	13	80
February	2/1/2022	2/28/2022	28	190		20	65	13	93
March	3/1/2022	3/31/2022	31	221		21	65	16	109
April	4/1/2022	4/30/2022	30	251		22	58	15	124
May	5/1/2022	5/31/2022	31	282		23	80	13	137
June	6/1/2022	6/30/2022	30	312		21	80	13	150
July	7/1/2022	7/31/2022	31	343		20	85	13	163
August	8/1/2022	8/31/2022	31	374		23	85	14	177
September	9/1/2022	9/30/2022	30	404		21	72	13	190
October	10/1/2022	10/31/2022	31	435		22	72	18	208
November	11/1/2022	11/30/2022	30	465		10	70	7	215
December	12/1/2022	12/31/2022	31	496		0	58	0	215

CONSTRUCTION YEAR: 2021

CONSTRUCTION YEAR: 2022

REMARKS

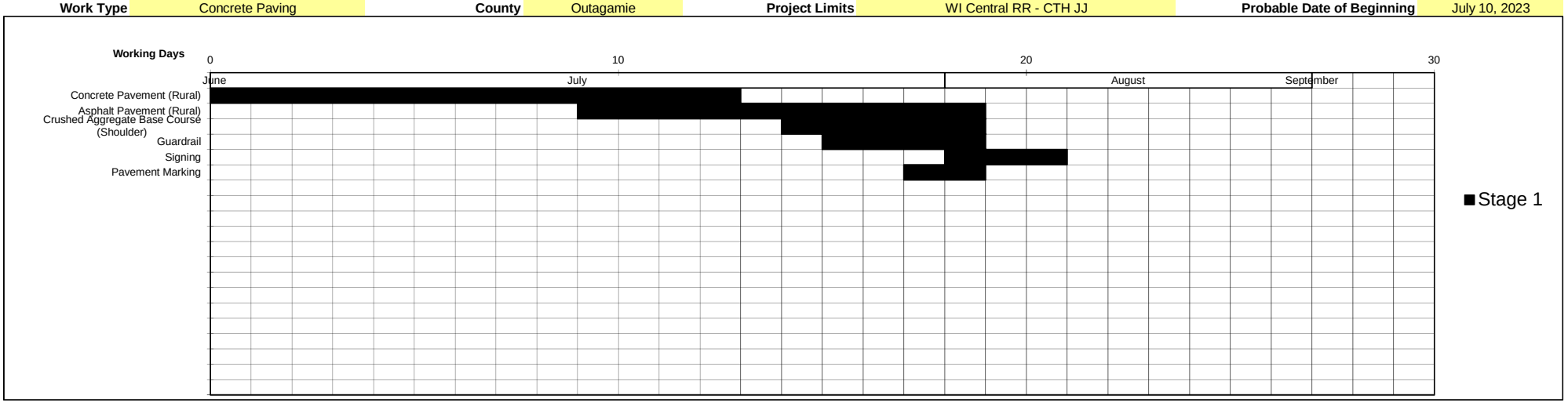
Calendar Days	231
Working Days	190
Completion Date	November 8, 2022
Prepared By	Mason Simmons

CONTRACT TIME FOR COMPLETION

Wisconsin Department of Transportation DT1923 04/2011

Project ID	1146-75-77	**Highway**	STH 15	**Project Title**	WIS 76 - New London
Work Type	Concrete Paving	**County**	Outagamie	**Project Limits**	WI Central RR - CTH JJ

Date of Letting	December 13, 2022
Probable Date of Beginning	July 10, 2023



ITEM ANALYSIS

Item	Contract Quantity per Stage					Total Quantity	Unit	Production Rate	Working Days (per Stage)	Stage 1		Stage 2		Stage 3		Stage 4		Stage 5	
	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5					Begin	End	Begin	End	Begin	End	Begin	End	Begin	End
Concrete Pavement (Rural)	106,500					106,500	SY	8750	13 / / / /	0	13								
Asphalt Pavement (Rural)	9,325					9,325	Tons	1000	10 / / / /	9	19								
Crushed Aggregate Base Course (Shoulder)	6,112					6,112	Tons	1500	5 / / / /	14	19								
Guardrail	3,189					3,189	LF	800	4 / / / /	15	19								
Signing	3					3	Days	1	3 / / / /	18	21								
Pavement Marking	2					2	Days	1	2 / / / /	17	19								
									/ / / /										
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Month	Date Begin	Date End	Days Month	Days Total	Days Holiday	Possible Work Days	Probable Working Days %	Probable Working Days Month	Probable Working Days Total
January	1/1/2023	1/31/2023	31	31		0	0	0	0
February	2/1/2023	2/28/2023	28	59		0	0	0	0
March	3/1/2023	3/31/2023	31	90		0	0	0	0
April	4/1/2023	4/30/2023	30	120		0	0	0	0
May	5/1/2023	5/31/2023	31	151		0	0	0	0
June	6/1/2023	6/30/2023	30	181		0	0	0	0
July	7/6/2020	7/31/2023	1121	1302		21	85	18	18
August	8/1/2023	8/31/2023	31	1333		10	85	9	27
September	9/1/2023	9/30/2023	30	1363		0	0	0	0
October	10/1/2023	10/31/2023	31	1394		0	0	0	0
November	11/1/2023	11/30/2023	30	1424		0	0	0	0
December	12/1/2023	12/31/2023	31	1455		0	0	0	0

CONSTRUCTION YEAR: 2023

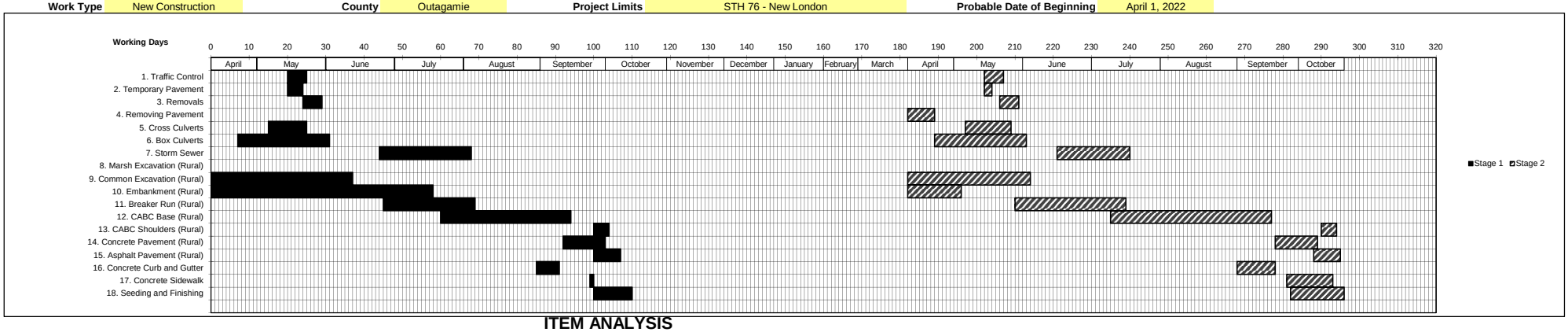
REMARKS

Calendar Days	31
Working Days	21
Completion Date	August 11, 2023
Prepared By	Mason Simmons

CONTRACT TIME FOR COMPLETION

Wisconsin Department of Transportation DT1923 04/2011

Project ID	1146-75-72	**Highway**	STH 15	**Project Title**	(WCL RR - Lily of the Valley Drive)	**Date of Letting**	November 9, 2021
Work Type	New Construction	**County**	Outagamie	**Project Limits**	STH 76 - New London	**Probable Date of Beginning**	April 1, 2022



ITEM ANALYSIS

Item	Contract Quantity per Stage					Total Quantity	Unit	Production Rate	Working Days (per Stage)	Stage 1		Stage 2					
	Stage 1	Stage 2								Begin	End	Begin	End	Begin	End	Begin	End
1. Traffic Control	5	5				10	Days	1	5 / 5 / / /	20	25	202	207				
2. Temporary Pavement	7,700	2,500				10,200	TON	2000	4 / 2 / / /	20	24	202	204				
3. Removals	4,500	4,500				9,000	LF	1000	5 / 5 / / /	24	29	206	211				
4. Removing Pavement	0	9,200				9,200	SY	1500	0 / 7 / / /			182	189				
5. Cross Culverts	5.0	6.0				11	EACH	0.5	10 / 12 / / /	15	25	197	209				
6. Box Culverts	234.0	234.0				468	CY	10	24 / 24 / / /	7	31	189	213				
7. Storm Sewer	4,800	3,700				8,500	LF	200	24 / 19 / / /	44	68	221	240				
9. Common Excavation (Rural)	220,000	190,000				410,000	CY	6000	37 / 32 / / /	0	37	182	214				
10. Embankment (Rural)	174,000	41,000				215,000	CY	3000	58 / 14 / / /	0	58	182	196				
11. Breaker Run (Rural)	72,000	85,000				157,000	TON	3000	24 / 29 / / /	45	69	210	239				
12. CABC Base (Rural)	102,000	125,000				227,000	TON	3000	34 / 42 / / /	60	94	235	277				
13. CABC Shoulders (Rural)	7,500	7,000				14,500	TON	2000	4 / 4 / / /	100	104	290	294				
14. Concrete Pavement (Rural)	40,750	64,750				105,500	SY	4000	11 / 11 / / /	92	103	278	289				
15. Asphalt Pavement (Rural)	12,500	17,300				29,800	TON	2000	7 / 7 / / /	100	107	288	295				
16. Concrete Curb and Gutter	7,700	14,400				22,100	LF	1500	6 / 10 / / /	85	91	268	278				
17. Concrete Sidewalk	1,600	44,300				45,900	LF	2000	1 / 12 / / /	99	100	281	293				
18. Seeding and Finishing	140,000	360,000				500,000	SY	15000	10 / 14 / / /	100	110	282	296				
									/ / / /								

Month	Date		Days			Possible Work Days	Probable Working Days %	Month	Total
	Begin	End	Month	Total	Holiday				
April	4/1/2022	4/30/2022	30	30		21	58	12	12
May	5/1/2022	5/31/2022	31	61		22	80	18	30
June	6/1/2022	6/30/2022	30	91		22	80	18	48
July	7/1/2022	7/31/2022	31	122		21	85	18	66
August	8/1/2022	8/31/2022	31	153		23	85	20	86
September	9/1/2022	9/30/2022	30	183		22	76	17	103
October	10/1/2022	10/31/2022	31	214		21	77	16	119
November	11/1/2022	11/30/2022	30	244		22	70	15	134
December	12/1/2022	12/31/2022	31	275		22	58	13	147
January	1/1/2023	1/31/2023	31	306		22	58	13	160
February	2/1/2023	2/28/2023	28	334		20	43	9	169
March	3/1/2023	3/31/2023	31	365		23	58	13	182
April	4/1/2023	4/30/2023	30	395		20	58	12	194
May	5/1/2023	5/31/2023	31	426		23	80	18	212
June	6/1/2023	6/30/2023	30	456		22	80	18	230
July	7/1/2023	7/31/2023	31	487		21	85	18	248
August	8/1/2023	8/31/2023	31	518		23	85	20	268
September	9/1/2023	9/30/2023	30	548		21	76	16	284
October	10/1/2023	10/20/2023	20	568		15	77	12	296

CONSTRUCTION YEAR: 2022

CONSTRUCTION YEAR: 2023

REMARKS

Calendar Days	568
Working Days	296
Completion Date	October 20, 2023
Prepared By	Jacobs

ATTACHMENT 8

INTERIM LIQUIDATED DAMAGE FOR DETOUR 1146-75-72

STH 15 DETOUR

AADT - Daily Traffic Volume	(2023)	for	STH 15	in				=	15,900	veh/day
Average Hourly Traffic Volume for	STH 15							=	663	veh/hr
Average percentage of Cars								=	95.00%	
Average percentage of Trucks								=	5.00%	
1970 NCHRP Travel Costs	Cars =	$3	per hr			Cars =	$20	per day		
	Trucks =	$5	per hr			Trucks =	$30	per day		
Consumer Price Index (CPI) Base Year			1970					=	38.8	
Latest Consumer Price Index (CPI)			2019					=	258	
2019 Adjusted Costs for Cars	258	/	38.8	@	$3	per hr		=	$20	per hr
2019 Adjusted Costs for Trucks	258	/	38.8	@	$5	per hr		=	$33	per hr
2019 Adjusted Costs for Cars	258	/	38.8	@	$20	per day		=	$133	per day
2019 Adjusted Costs for Trucks	258	/	38.8	@	$30	per day		=	$199	per day
Distance Along STH 15	Manley Road to Municipal Drive							=	3.6	mile(s)
Normal Time to Traverse	STH 15	at	51	MPH				=	0.0706	hours
Distance using detour	Manley Road to Municipal Drive							=	5.00	mile(s)
Time to Traverse Detour Route at	49	MPH (avg. speed)						=	0.1020	hours
Additional Travel Time using Detour Route								=	0.0315	hours
Additional Hourly Cost Per Car	0.0315	hours	at	$20	/hr			=	$0.63	/car
Additional Hourly Cost Per Truck	0.0315	hours	at	$33	/hr			=	$1.05	/truck
Additional Daily Cost for Cars	95.00%	x	15900	veh/day	x	$0.63	/car	=	$9,477	/day
Additional Daily Cost for Trucks	5.00%	x	15900	veh/day	x	$1.05	/truck	=	$831	/day
Total Additional Daily Vehicle Cost								=	$10,309	/day

Round to $10,300 per day

40 % of total damage to be applied as ILD

Because computed road user costs are more than the Applicable Interim Liquidated Damages Per Day according to FDM 19-15-2, an Interim Liquidated Damage for the STH 15 Detour shall be applied to this contract.

Damage to be applied =	$4,120	per day
Round to nearest $500 =	$4,500	per day

INTERIM LIQUIDATED DAMAGE FOR DETOUR 1146-75-00/73

USH 45 DETOUR

AADT - Daily Traffic Volume	(2024)	for	USH 45	in	City of New London	=	11,000	veh/day		
Average Hourly Traffic Volume for	USH 45					=	458	veh/hr		
Average percentage of Cars						=	92.00%			
Average percentage of Trucks						=	8.00%			
1970 NCHRP Travel Costs	Cars =	$3	per hr		Cars =	$20	per day			
	Trucks =	$5	per hr		Trucks =	$30	per day			
Consumer Price Index (CPI) Base Year			1970			=	38.8			
Latest Consumer Price Index (CPI)			2017			=	240			
2017 Adjusted Costs for Cars	240	/	38.8	@	$3	per hr	=	$19	per hr	
2017 Adjusted Costs for Trucks	240	/	38.8	@	$5	per hr	=	$31	per hr	
2017 Adjusted Costs for Cars	240	/	38.8	@	$20	per day	=	$124	per day	
2017 Adjusted Costs for Trucks	240	/	38.8	@	$30	per day	=	$186	per day	
Distance Along USH 45	*US 45/STH 54 interchange to WIS 15*					=	2.9	mile(s)		
Normal Time to Traverse	USH 45	at	55	MPH		=	0.0527	hours		
Distance using detour	*US 45 to Bus 45 to West Wolf Ave to Mill St to US 45*					=	3.50	mile(s)		
Time to Traverse Detour Route at	28	MPH (avg. speed)				=	0.1250	hours		
Additional Travel Time using Detour Route						=	0.0723	hours		
Additional Hourly Cost Per Car	0.0723	hours	at	$19	/hr	=	$1.30	/car		
Additional Hourly Cost Per Truck	0.0723	hours	at	$31	/hr	=	$2.24	/truck		
Additional Daily Cost for Cars	92.00%	x	11000	veh/day	x	$1.30	/car	=	$13,165	/day
Additional Daily Cost for Trucks	8.00%	x	11000	veh/day	x	$2.24	/truck	=	$1,972	/day
Total Additional Daily Vehicle Cost							=	$15,137	/day	

Round to **$15,100** per day

40 % of total damage to be applied as ILD

Because computed road user costs are more than the Applicable Interim Liquidated Damages Per Day according to FDM 19-15-2, an Interim Liquidated Damage for the USH 45 Detour shall be applied to this contract.

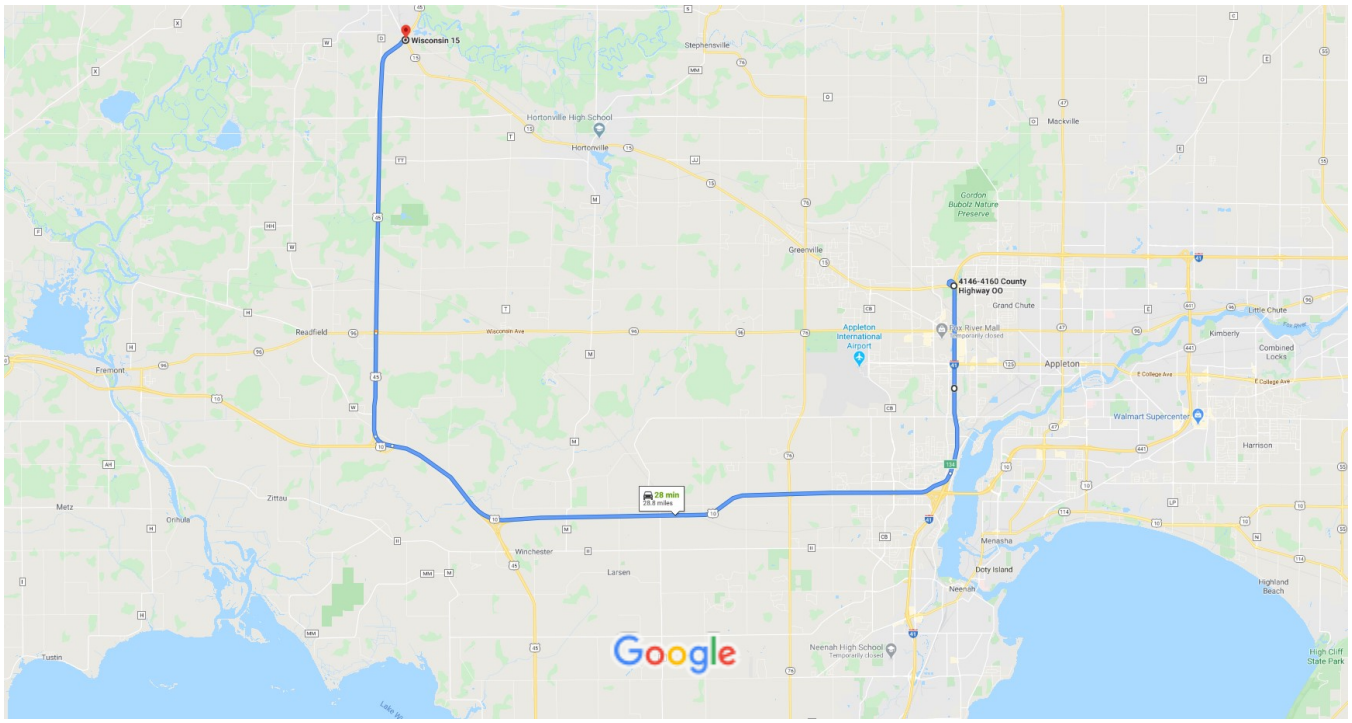
Damage to be applied =	$6,040.00 per day
Round up to nearest $500 =	$6,500.00 per day

Attachment 9

Google Maps

4146-4160 County Hwy OO, Appleton, WI 54914 to WI-15, New London, WI 54961

Drive 28.8 miles, 28 min



Map data ©2020 1 mi

via US-10 W and US-45 N — 28 min

27 min without traffic — 28.8 miles

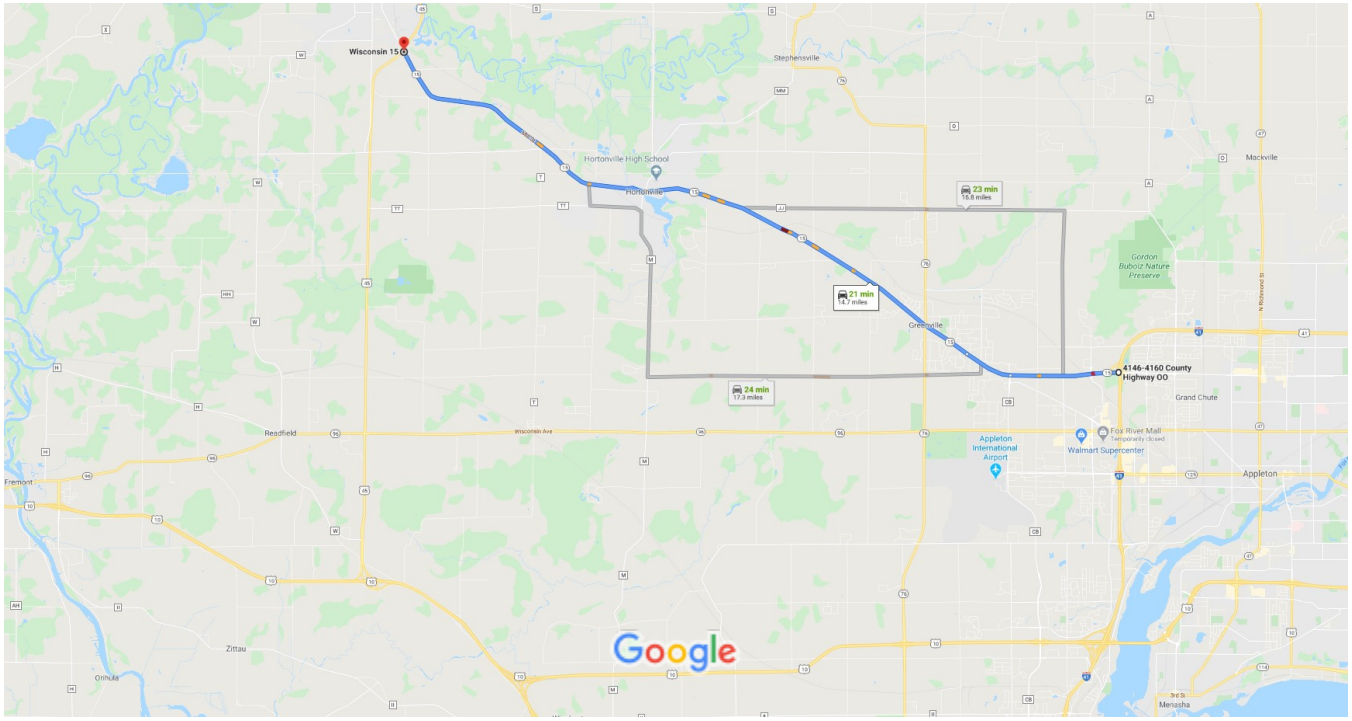
ID 1146-75-76 - WIS 15 detour route with estimated time/mileage

Groceries Hotels Gas stations Parking Lots More

Google Maps

4146-4160 County Hwy OO, Appleton, WI 54914 to WI-15, New London, WI 54961

Drive 14.7 miles, 21 min



via WI-15 W — 21 min
Fastest route, the usual traffic — 14.7 miles

via W Broadway Dr and WI-15 W — 23 min
16.8 miles

via School Rd and WI-15 W — 24 min
17.3 miles

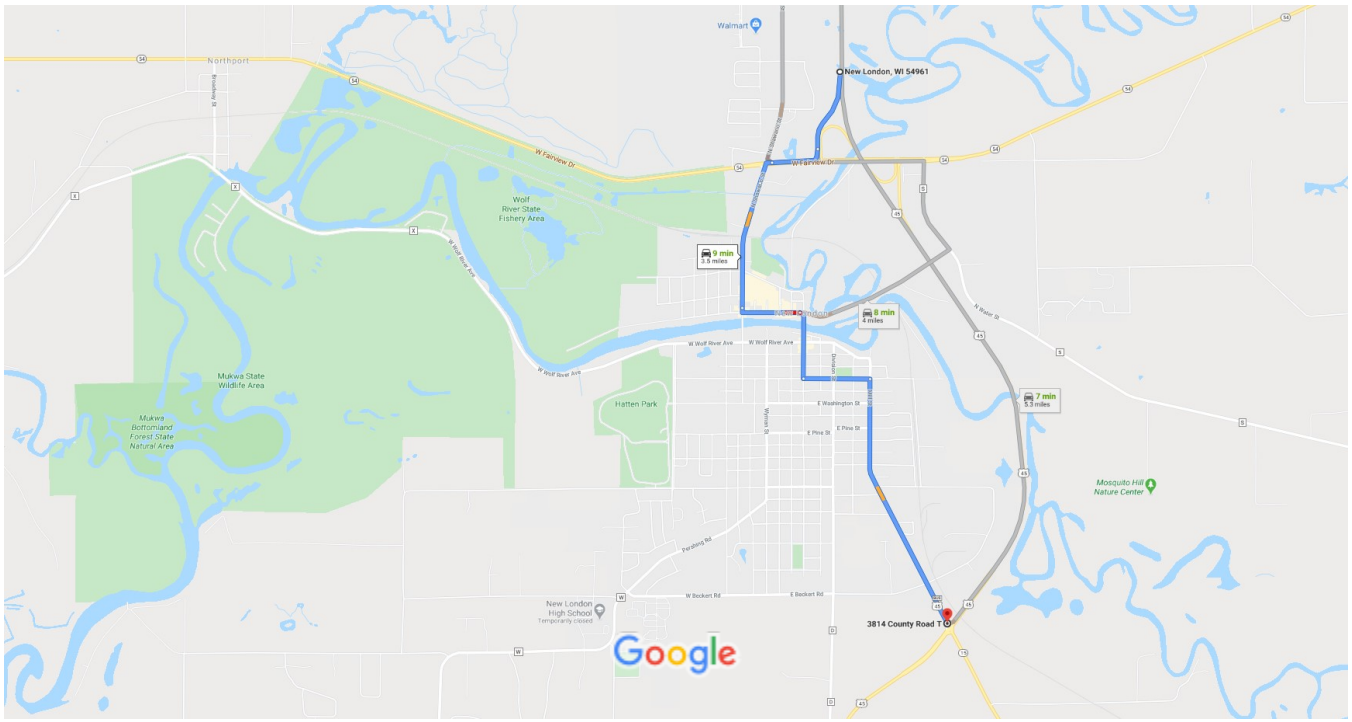
ID 1146-75-76 - WIS 15 normal route with estimated time/mileage

Groceries Hotels Gas stations Parking Lots More

Google Maps

New London, Wisconsin 54961 to 3814 County Rd T, New London, WI 54961

Drive 3.5 miles, 9 min



~~via US-45 S~~ ~~7 min~~

~~Fastest route, the usual traffic~~ ~~5.3 miles~~

via US-45 BUS S/Mill St 9 min

3.5 miles

~~via N Water St and US-45 BUS S/Mill St~~ ~~8 min~~

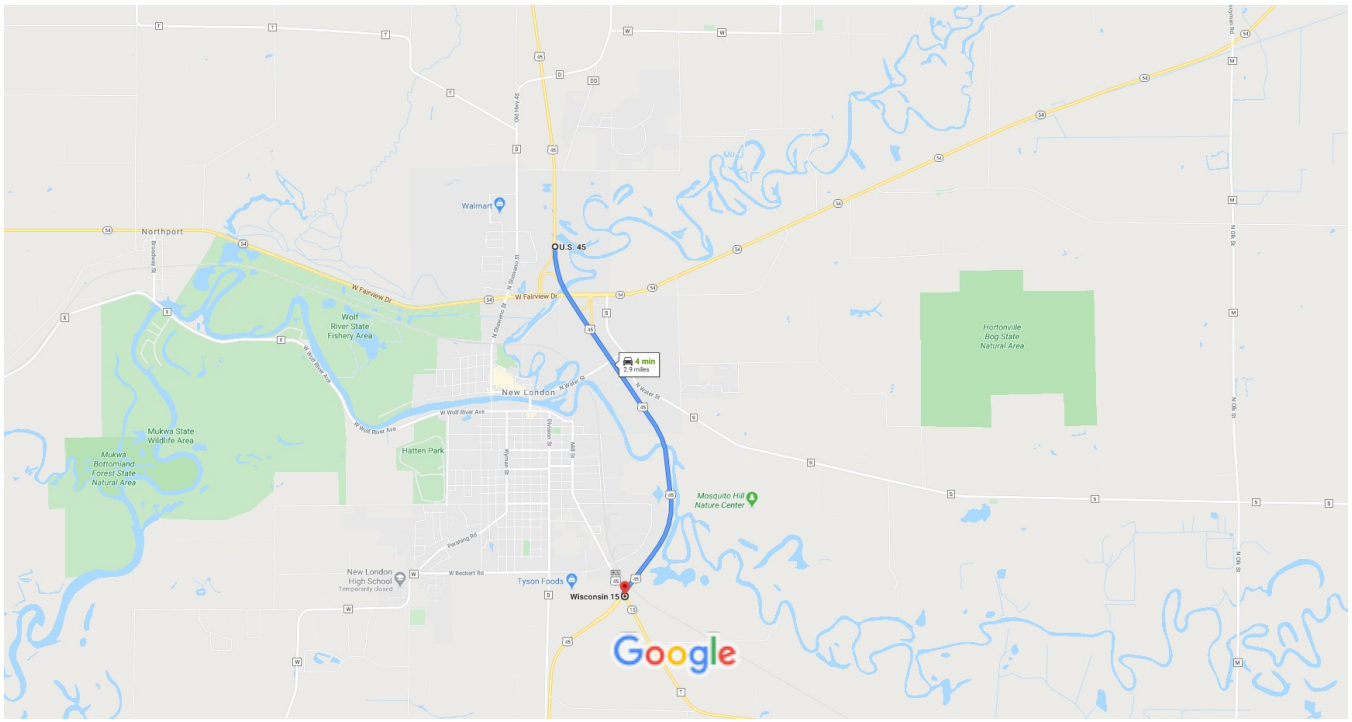
~~4.0 miles~~

1146-75-73 (west segment) - US 45 detour estimated time/distance

Groceries Hotels Gas stations Parking Lots More

Google Maps

US-45, New London, WI 54961 to WI-15, New London, WI 54961 Drive 2.9 miles, 4 min



Map data ©2020 2000 ft

via US-45 S 4 min

Fastest route, the usual traffic 2.9 miles

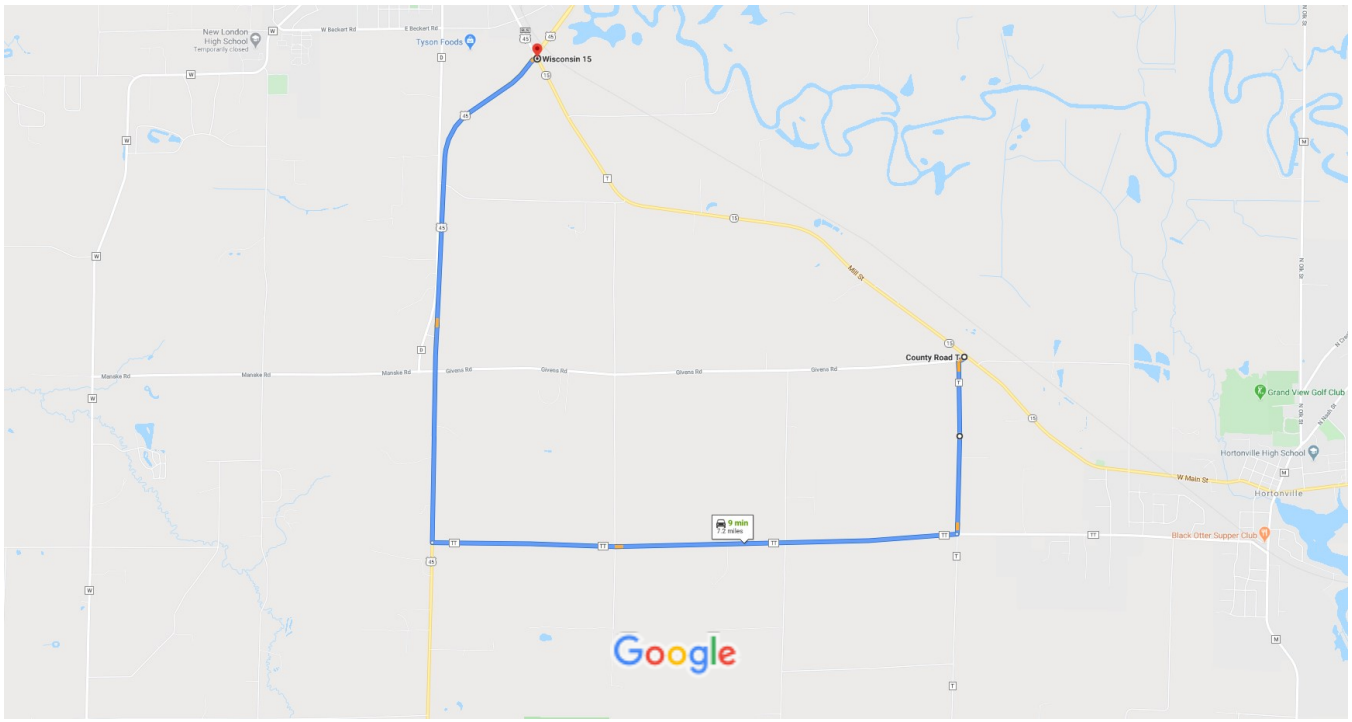
1146-75-73 (west segment) - US 45 normal route estimated time/distance

Groceries Hotels Gas stations Parking Lots More

Google Maps

County Rd T, Hortonville, WI 54944 to WI-15, New London, WI 54961

Drive 7.2 miles, 9 min



Map data ©2020 2000 ft

via County Hwy TT/County Rd TT and US-45 N

9 min

7.2 miles

8 min without traffic

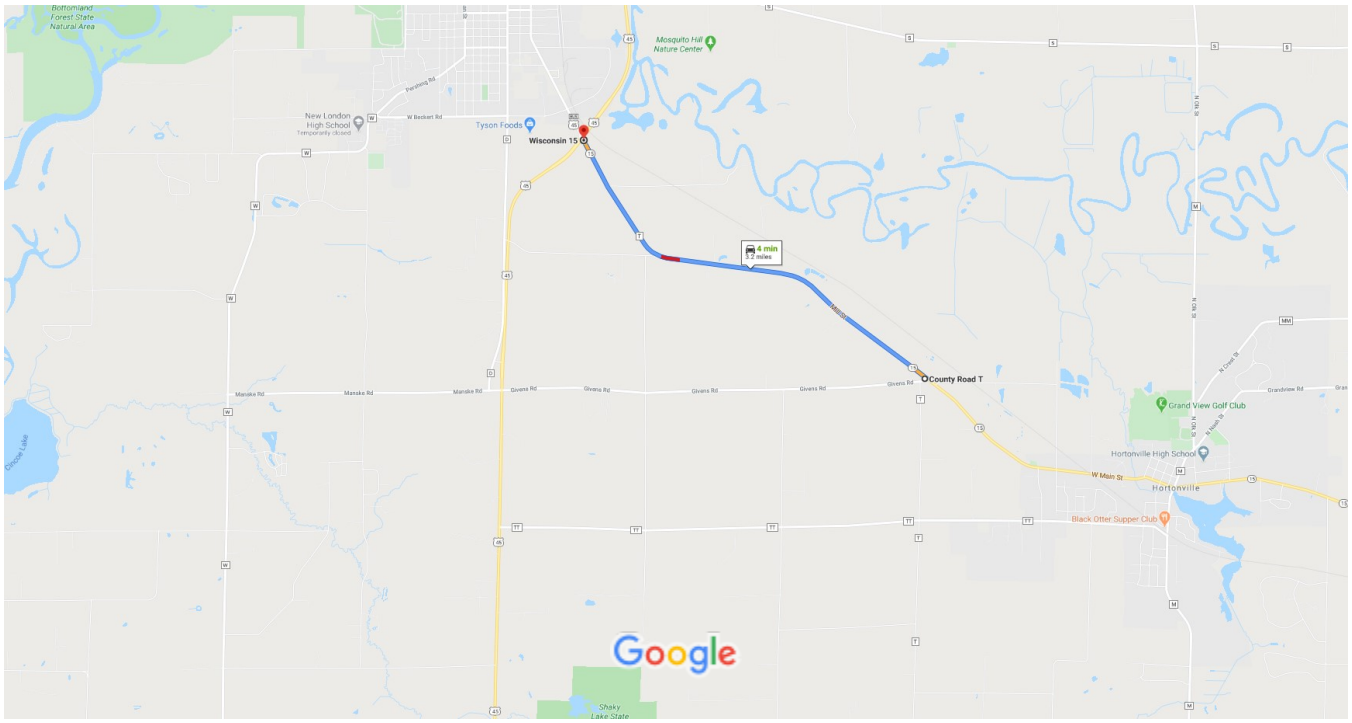
1146-75-73 (west segment) - WIS 15 detour route estimated time/distance

Groceries Hotels Gas stations Parking Lots More

Google Maps

County Rd T, Hortonville, WI 54944 to WI-15, New London, WI 54961

Drive 3.2 miles, 4 min



Map data ©2020 2000 ft

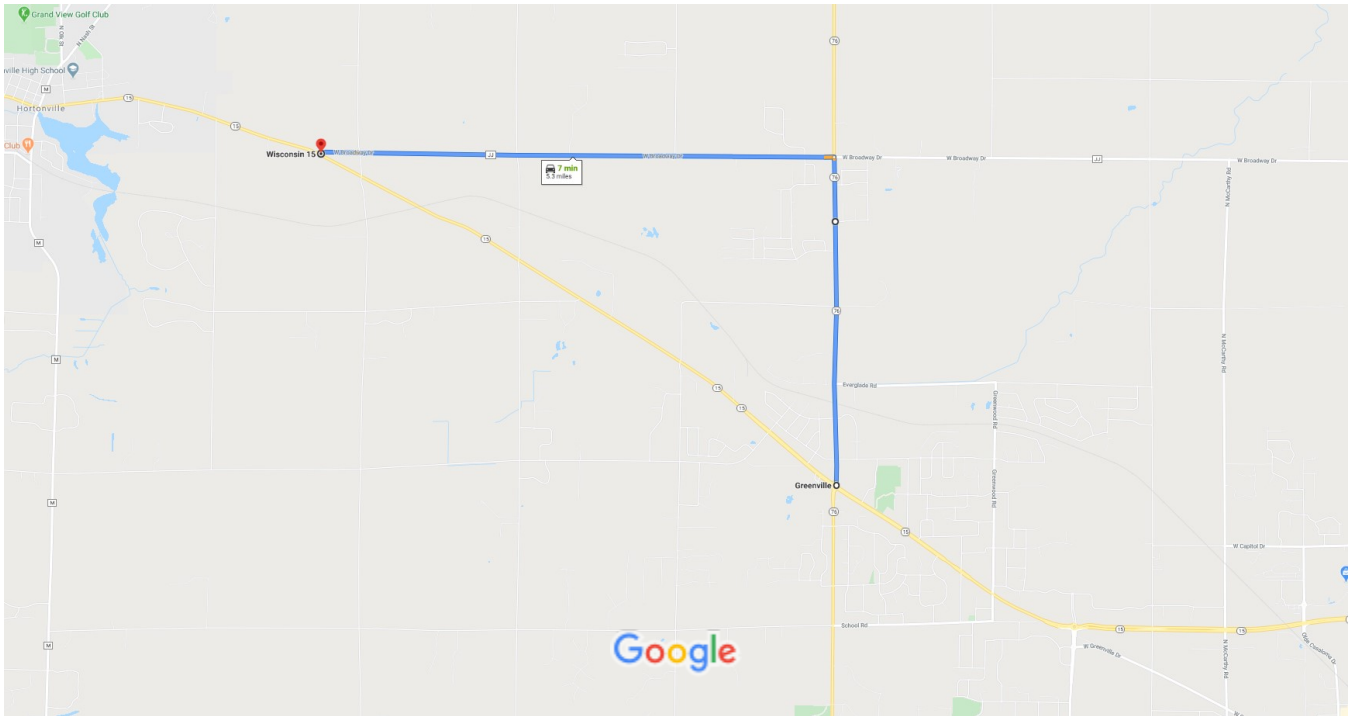
via County Rd T — 4 min

Fastest route, the usual traffic — 3.2 miles

1146-75-73 (west segment) - WIS 15 normal route estimated time/distance

Groceries Hotels Gas stations Parking Lots More

Google Maps Greenville to WI-15, Hortonville, WI 54944 Drive 5.3 miles, 7 min



Map data ©2020 2000 ft

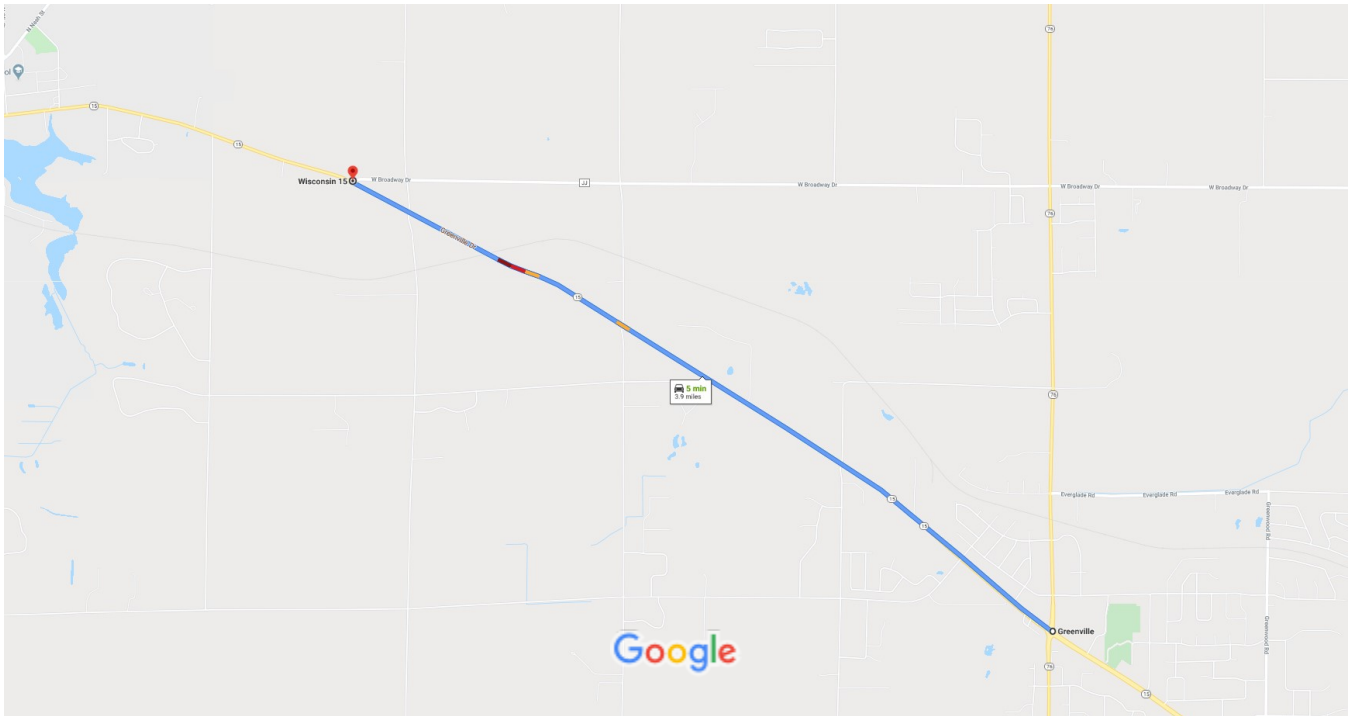
via WI-76 N and W Broadway Dr 7 min

7 min without traffic 5.3 miles

1146-75-72 (east segment) - WIS 15 detour estimated time/distance

Groceries Hotels Gas stations Parking Lots More

Google Maps Greenville to WI-15, Hortonville, WI 54944 Drive 3.9 miles, 5 min



Map data ©2020 1000 ft

via WI-15 W 5 min

Fastest route, the usual traffic 3.9 miles

1146-75-72 (east segment) - WIS 15
normal route estimated time/distance

Groceries Hotels Gas stations Parking Lots More