## KDOT Permanent Pavement Marking Plan Review Items - July 2024

The following contains the most common items that KDOT Permanent Pavement Marking comments on when external plans are submitted for our review, in no particular order of importance or occurrence.

- 1. Permanent signing and pavement markings plans should be separated since contractors that perform this work are different and in no way should be included together.
  - a. If plans are combined, the PMC should immediately reject the plan set until the consultant can separate the plans.
- 2. Pavement marking plan sheets should come before standard drawings and quantities.
- 3. Pavement markings should start/stop at the furthest extents of the temporary traffic control (TTC) operations as shown in the provided examples that are attached in this email.
- 4. Text for the pavement marking title blocks should read as follows:
  - a. PAVEMENT MARKING
  - b. MAINLINE xx or SIDEROAD xx
  - c. STA: xx+xx STA: xx+xx
  - d. This should match the stationing per plan sheet as this will reflect the same stationing that is called out on TE311 for each plan sheet.
- 5. Two-Lane Roadways:
  - a. Passing sight distance should be ran to determine all pass/no pass zones per KDOT HSM with the current posted speed limit.
  - b. Markings should stop/start for all sideroads.
  - c. Markings should be carried through all other entrances.
  - d. Verify all callouts are correct for the pavement markings necessary in the plan set.
- 6. Multi-Lane Roadways:
  - a. TWLTLs... Determine major and minor sideroads per KDOT HSM to determine where left turn lanes are needed or keep with the original designed TWLTL from the consultant.
    - i. If a TWLTL is designed in the plans and is different from the original existing layout, what is the striping plan? Parallel parking, bike lanes, additional through lane widths, etc., for the additional pavement that this present?
  - b. Lane drops:
    - i. Most lane drop lanes/striping can be designed according to the plans provided. If there is a lane drop at or near an intersection, coordination should happen with permanent signing and pavement markings to ensure the correct signing and pavement markings are present and shown in the plans. Please refer to the permanent signing layouts and/or District request in these locations.
- 7. Ideally, the start and stop locations for pavement marking locations should match the furthest extents of the project, TTC operations or further so that all KDOT District personnel have an identifiable start/stop location for any future construction project with striping or District restripe. This allows District to have two matching locations (start/stop) for both directions to better plan for any future, upcoming striping projects moving forward.
- 8. TE311 Quantities:
  - a. Do the station location callouts match the pavement marking plan sheets? If not, change accordingly.
  - b. Has the correct calculation factor been applied for the different line types of pavement markings?
  - c. In most cases, the preferred pavement marking material should be multi-component unless otherwise noted by District and/or Traffic Engineering.

- d. Removal quantities are necessary for most pavement marking scenarios. This quantity should be different than the initial removal quantity of removal on TE795 and should never be combined with the TTC removal quantities.
  - i. Removal quantities will be needed in the following:
    - 1. Signal projects, shoo-fly's, lane drops (single or multiple), cross-overs, etc.

Additional pavement marking needs may be added/included as future KDOT projects are reviewed by Traffic Engineering. Please note that this will be a live document and can be altered/updated according to the needs of pavement markings.

The stationing shown or TE311 should match the stationing on each pavement marking plan

This simplifies the process for the inspecto and contractor. They are able to flip between plan sheets and quantity measurement and verification of final pay quantities for all pavement markings used

Mainline stationing and quantities should be separated from any other side road location on TE311.

SUMMARY OF PAVEMENT MARKINGS |12" Solid |24" Solid Solid Dotted Broken Broken Broken Solid Solid Solid Solid Solid Solid Broken Broken | WHITE | WHITE | Type I | Type II WHITE WHITE WHITE | WHITE YELLOW YELLOW LOCATION |Lane Line | Extension | Lane Drop | Lane Line | Li WHITE Extension Diagonal Chevron Crosswalk Crosswalk Stop Line Edge Line YELLOW YELLOW YELLOW Lane Drop Gore Line Double Diagonal Edge Line Line Edge Line Edge Line Lane Line Line Line Line MAINLINE I-70: STA: 0+00 - STA: 100+00 100 100 100 200 STA: 100+00 - STA: 200+00 200 100 100  $\sim$ TOTALS 

Add all 6" white pavement markings together. Round up to the nearest whole number under the recapitulation of quantities.

Add all 4" yellow pavement markings —

SUMMARY OF WORD & SYMBOL MARKINGS ≅>< **→** LOCATION MAINLINE I-70 STA: 0+00 - STA: 100+00 4 STA: 100+00 - STA: 200+00 🔾 **TOTALS** 

NOTE: FOR SPECIFIC PAVEMENT MARKING DETAILS AND DIMENSIONS SEE PLAN SHEETS

NOTE: ALL TOTALS REFLECT ACTUAL QUANTITY OF PAVEMENT MARKING MATERIALS REQUIRED.

Edge Lines = Add actual lengths Broken Lines = Total length / 4 See examples above Dotted Extension Lines = Total length / 3 Double Yellow Lines = Total length x 2 

STATE PROJECT NO. YEAR SHEET NO. XXXX XXX XX-XX XX-XXXX-XX

## RECAPITULATION OF QUANTITIES **ITEMS** TOTAL UNITS PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(4") FT PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(6") 484 FT PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(8") FT PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(12") FT PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(4") 225 FT PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(6") PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(12") FT PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(4") FT PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(6") FT PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(8") FT PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(12") PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(4") FT PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(6") FT PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(12") FT PAVEMENT MARKING (EPOXY)(WHITE)(4") FT PAVEMENT MARKING (EPOXY)(WHITE)(6") FT PAVEMENT MARKING (EPOXY)(WHITE)(8") FT PAVEMENT MARKING (EPOXY)(WHITE)(12") FT PAVEMENT MARKING (EPOXY)(YELLOW)(4") FT PAVEMENT MARKING (EPOXY)(YELLOW)(6") PAVEMENT MARKING (EPOXY)(YELLOW)(12") FT PAVEMENT MARKING (INTERSECTION GRADE)(WHITE)(12") FT PAVEMENT MARKING (INTERSECTION GRADE)(WHITE)(24") FT PAVEMENT MARKING (INTERSECTION GRADE)(YELLOW)(12") FT EACH PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)(LEFT TURN ARROW) EACH PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE) PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)( PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE) EACH EACH PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)( EACH PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(US-SHIELD)( PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(K-SHIELD)( EACH PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(I-SHIELD)( EACH PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(6") FT PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(8") FT FT PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(12") $\sim\sim$ PAVEMENT MARKING REMOVAL

Any additional pavement markings that need to be removed that were not altered, covered or removed during the temporary traffic control phasing.

## NOTE:

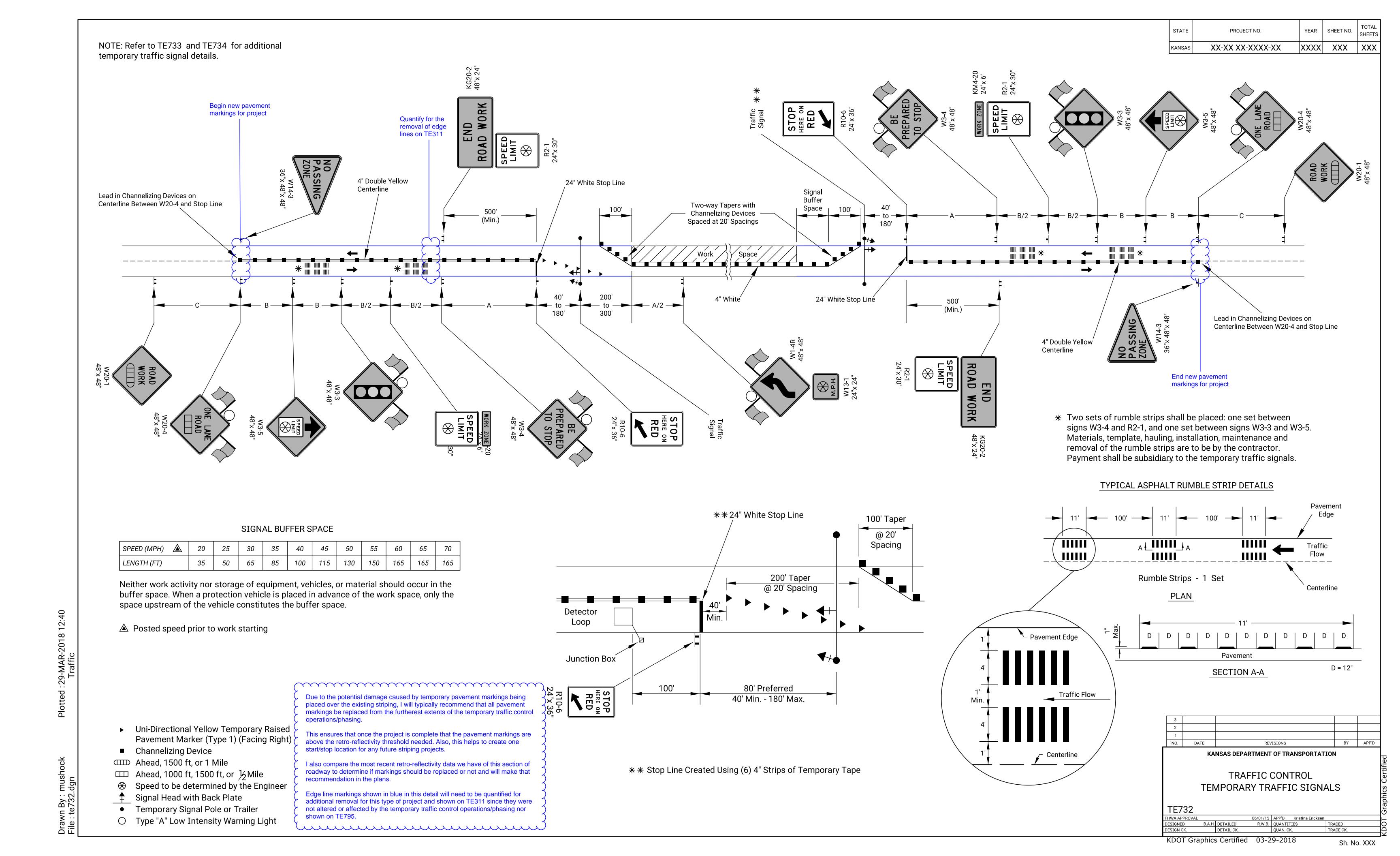
WORDS & SYMBOLS SHALL CONFORM TO THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" PRINTED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

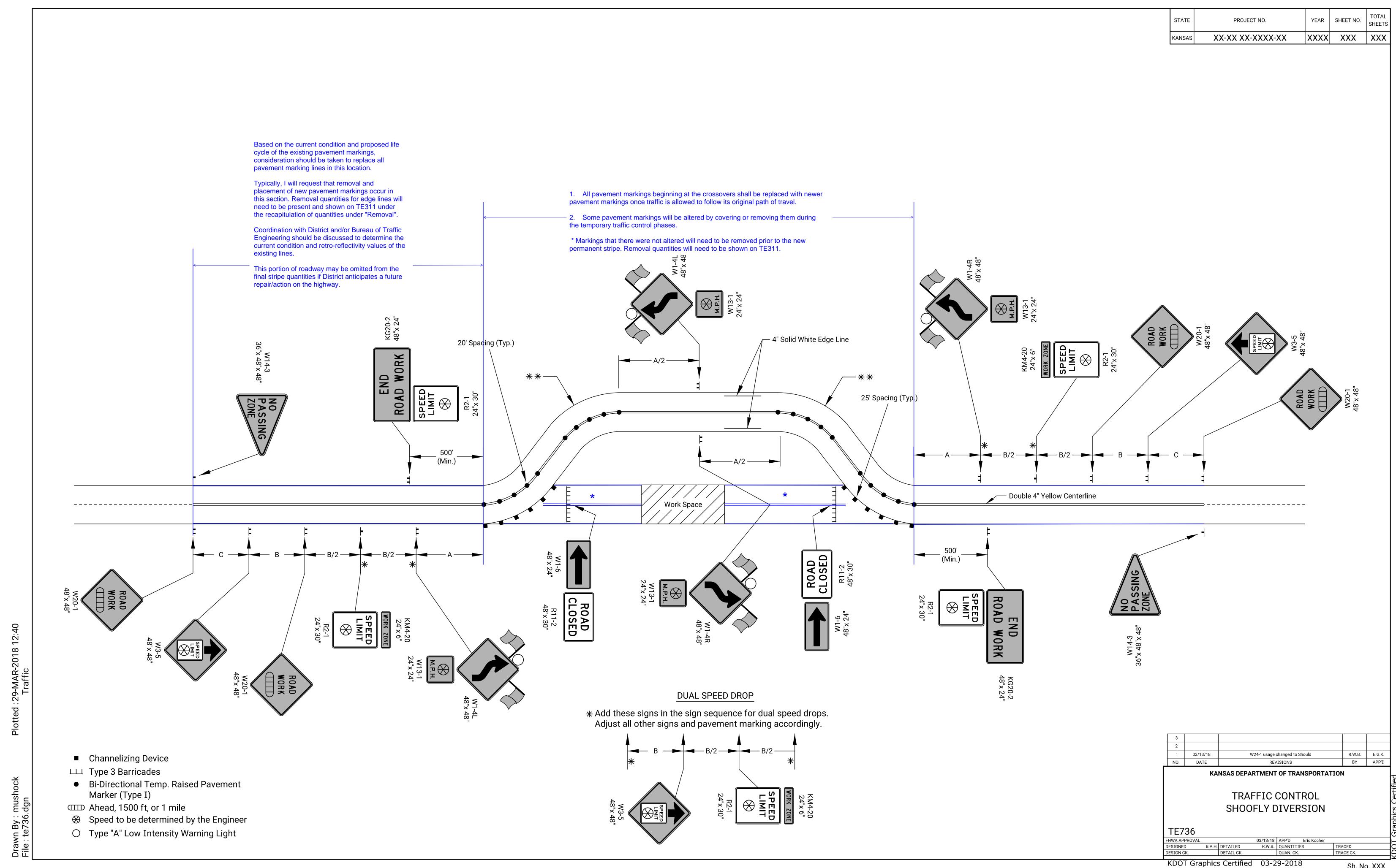
PRIOR TO COMMENCEMENT OF PAVEMENT MARKING WORK THE ENGINEER WILL ESTABLISH THE LIMITS FOR "NO PASSING" ZONES. THESE LIMITS SHALL BE USED FOR THE LOCATION OF "NO PASSING" LINES AND FOR THE COMPUTATION OF ACTUAL MARKING QUANTITIES FOR THIS LINE TYPE.

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ny manipulation of this	2 5/25, 77/26, NO. DAY		5/05	Added Line Types, Symbols, and Shields  New FHWA Approval Date  REVISIONS		B.A.H. J.F.F. BY	B.D.G. B.D.G. APP'D			
andard sheet beyond adding uantities, the TE311 text will eed to be crossed out. xamples when this is needed:  dding additional columns and/or rows	SUMMARY AND RECAPITULATION OF PAVEMENT MARKING QUANTITIES									aphics Certified
dding project specific notes	TE3	<del>11</del>	)							Grap
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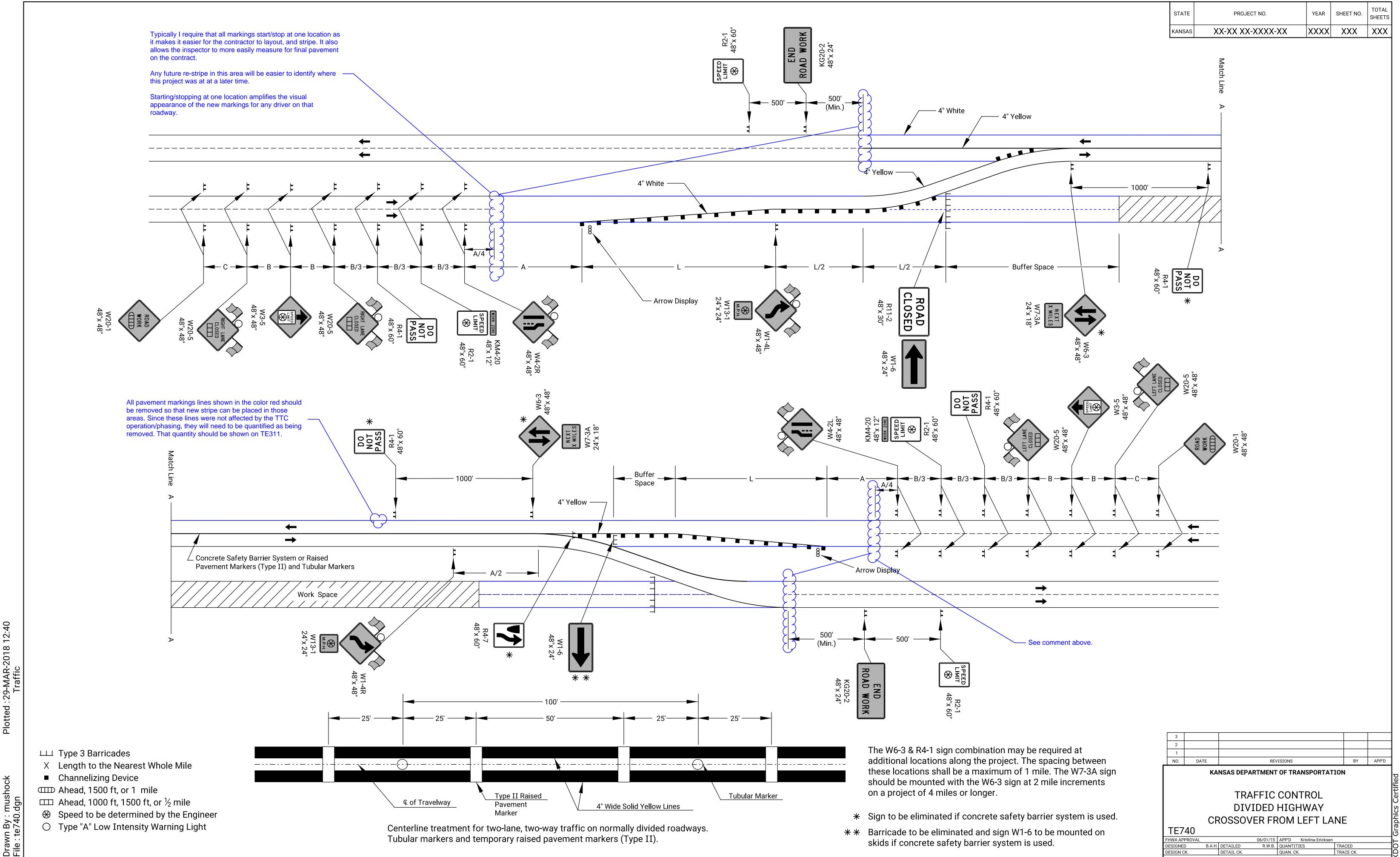
KDOT Graphics Certified 07-17-2018

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KDOT Graphics Certified 03-29-2018

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