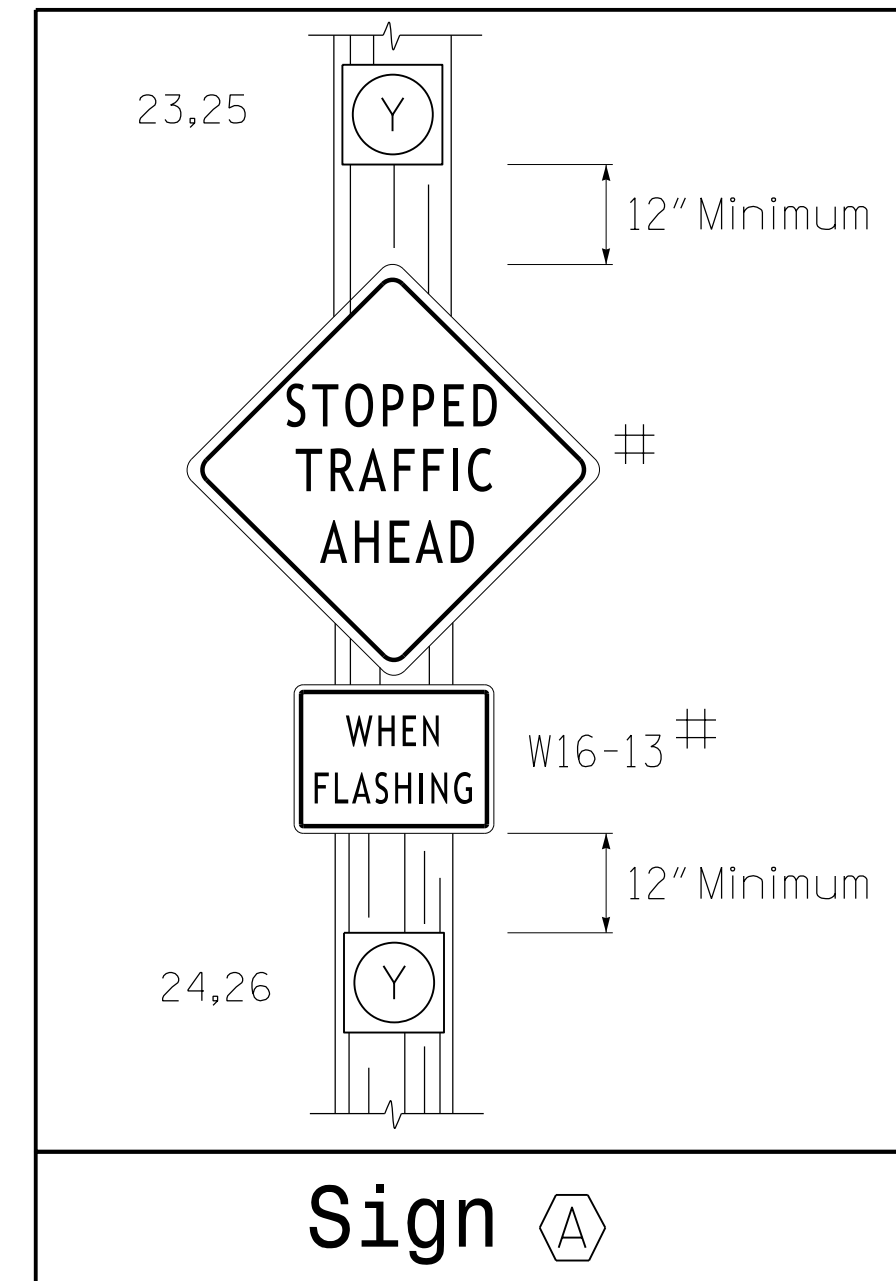
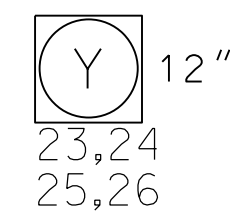


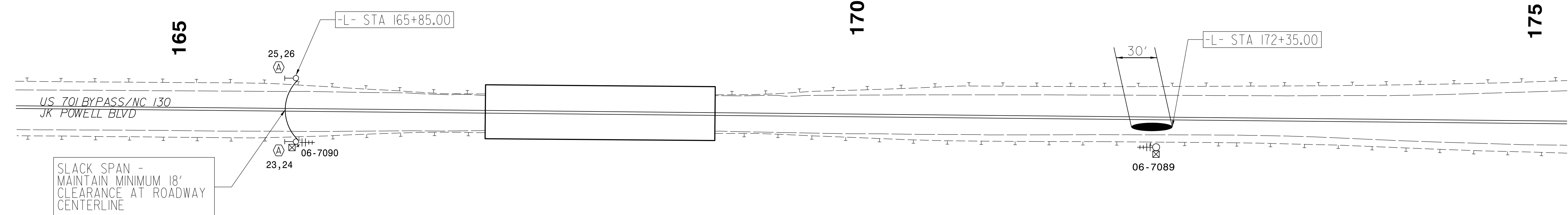
NOTES

- 1) Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- 2) Install new wood pole. Install a 2-inch rigid galvanized steel riser with weatherhead on the wood pole to route coaxial cable to the antenna.
- 3) Reference RDWY STANDARD DRAWINGS "1736 - SPREAD SPECTRUM RADIO" FOR INSTALLATION DETAILS.
- 4) Maintain proper clearance from all utilities per the National Electric Safety Code (NESC).
- 5) Install a beacon controller assembly and cabinet (type f3) with the following modifications:
 - a) equipment shelf;
 - b) convenience outlet;
 - c) NEMA TS-2 power supply, shelf mount;
 - d) exterior disconnect switch on cabinet.
- 6) Set power meter and disconnect on pole.
- 7) Connect and make operational the wireless magnetic vehicle detection system and integrate with the contact closure radio.
- 8) Install lightning arrester, coaxial cable shield grounding and weatherproofing kit.
- 9) The queue detection zone is being provided by embedded wireless magnetic vehicle sensors. Follow manufacturer's instructions to achieve the optimum detection zone as shown on this plan.
- 10) When the Temporary Queue Backup Warning System is removed, return all equipment to the Division 6 Traffic Services Office, 450 Transportation Drive, Fayetteville, NC.

WARNING BEACON TABLE OF OPERATION		
SIGNAL FACE	INTERVAL	
	1	2
23,25	ON	OFF
24,26	OFF	ON



#SIGN (48" X 48") SHOULD BE BLACK LETTERS ON ORANGE BACKGROUND



MAGNETIC VEHICLE DETECTION ZONE PLACEMENT & TIMING PARAMETERS			
SIZE (FT)	STATION	DELAY (S)	EXTEND (S)
6'X30'	-L- STA 172+35.00	15	10

LEGEND	
+++	WIRELESS ANTENNA
☒	NEW CABINET (TYPE F3) WITH WIRELESS MAGNETIC VEHICLE DETECTION SYSTEM AND CONTACT CLOSURE RADIO
☒*	NEW CABINET (TYPE F3) WITH BEACON CONTROLLER ASSEMBLY AND RADIO RECEIVER EQUIPMENT
○	NEW CLASS 3, 40' WOOD POLE
●	WIRELESS MAGNETIC SENSOR VEHICLE DETECTION ZONE

TEMPORARY QUEUE BACKUP WARNING SYSTEM

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

	Advanced Queue Detection System on US 701/NC 130 (S.J.K. Powell Blvd)		SEAL
	Division 6 Columbus County Whiteville	PLAN DATE: April 2020 PREPARED BY: M. Ishak	
SCALE 0 40 1" = 40'		REVISIONS INIT. DATE	SIGNATURE DATE SIG. INVENTORY NO. N/A

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5/14/2020
 R-5020B_Queue Backup_Sht ITS-1.dgn
 USER: MCPPLE