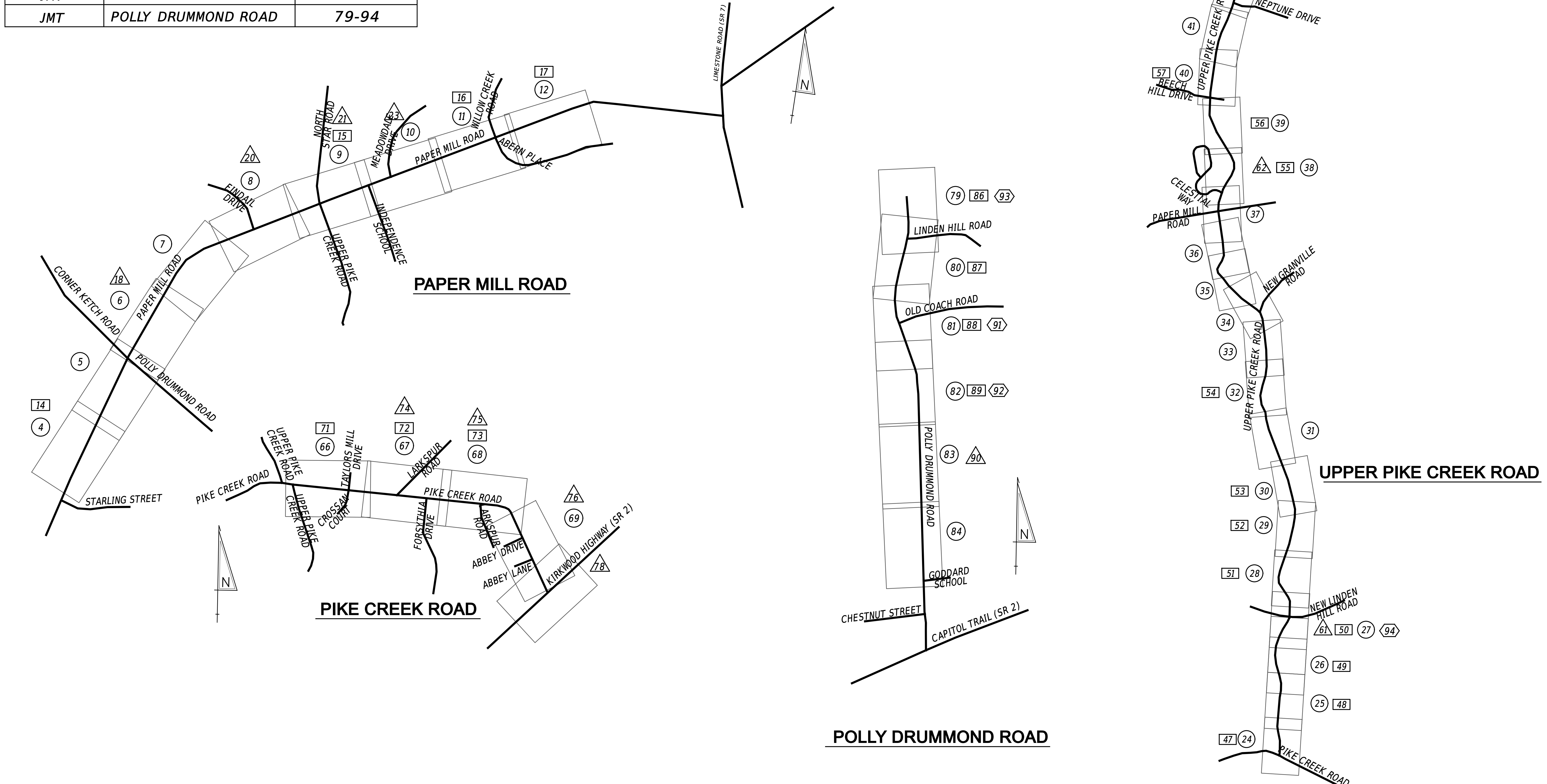




INDEX OF SHEETS		
SECTION	SHEET DESCRIPTION	SHEET NO(S)
JMT	TITLE	1
JMT	INDEX OF SHEETS	2
JMT	NOTES	3
JMT	PAPER MILL ROAD	4-23
JMT	UPPER PIKE CREEK ROAD	24-65
JMT	PIKE CREEK ROAD	66-78
JMT	POLLY DRUMMOND ROAD	79-94

LEGEND	
SIGNING AND STRIPING PLANS	⊗
PEDESTRIAN IMPROVEMENT PLANS	⚠
GUARDRAIL PLANS	⊞
SIGNALIZATION PLANS	⊞



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ADDENDUMS / REVISIONS

NOT TO SCALE

PAVEMENT & REHABILITATION,  
NORTH I, 2024

CONTRACT	ROAD NO.	N013/N295/N316/N328
T202406101	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

INDEX OF SHEETS

SECTION	JMT
SHEET NO.	2

**SIGNING AND STRIPING GENERAL NOTES**

- PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH DELDOT'S STANDARD AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, JANUARY 2024.
- PLANS HAVE BEEN DESIGNED BASED ON FIELD INVESTIGATIONS PERFORMED ON AUGUST 16TH, 2023. CHANGES TO SIGNING OR LANE GEOMETRY AFTER AUGUST 16TH, 2023 HAVE NOT BEEN ACCOUNTED FOR IN PROPOSED IMPROVEMENTS.
- ROADWAY GEOMETRY IS BASED OFF AERIAL PHOTOGRAPHY. CONTRACTOR SHALL FOLLOW PROPOSED STRIPING AND PAVEMENT MARKINGS LEGEND. LOCATIONS OF EXISTING STRIPING SHOWN ON AERIAL ARE NOT TO BE REPRODUCED.
- THE CONTRACTOR SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS, EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS OF THIS CONTRACT OR THROUGH WRITTEN APPROVAL BY THE ENGINEER.
  - DELDOT - 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES', 2011 EDITION AND SUBSEQUENT REVISIONS (MUTCD)
  - A.A.S.H.T.O. - STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS - 6TH EDITION AND SUBSEQUENT PUBLICATIONS.
  - F.H.W.A. - STANDARD HIGHWAY SIGNS AND MARKINGS, 2004 EDITION AND 2012 SUPPLEMENT
- INSTALL NEW 12' OR 15' SIGN POSTS WHERE ADDITIONAL SIGN HEIGHT IS WARRANTED.
- MATCH EXISTING STRIPING CENTERLINE(S); REPLACE CENTERLINE STRIPING IN-PLACE OF EXISTING, UNLESS NOTED OTHERWISE. TRAVEL LANE WIDTH DIMENSIONS ARE SHOWN FROM THE STRIPING CENTERLINE(S) TO THE EDGE OF TRAVEL LANE. PLEASE NOTE: SHOULDER WIDTHS VARY THROUGHOUT CORRIDORS.
- INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS WILL BE PAID UNDER ITEM #817027 - RAISED/RECESSED PAVEMENT MARKER.
- PROPOSED SIGNAL DETECTION LOOPS ARE SHOWN ON THE SIGNING AND STRIPING PLANS. VERIFY ACTUAL LOCATIONS WITH SIGNAL MAINTENANCE AT 302-760-2726 BEFORE PLACING THE LOOPS IN THE FINAL WEARING SURFACE.
- SEE AS BUILT SIGNAL PLANS FOR WAVETRONIX DETECTION.
- SEE REDLINED SIGNAL PLANS FOR SIGNAL HEAD, OPTICOM, SIGNAL HEAD CABLE, AND OPTICOM CABLE REPLACEMENT WORK FOR THE N259 - POLLY DRUMMOND HILL ROAD & NEW LINDEN HILL ROAD SIGNAL AND THE N581 - NEW LINDEN HILL ROAD & UPPER PIKE CREEK ROAD SIGNAL.
- IN ORDER TO MAINTAIN EFFECTIVE COMMUNICATION WITH THE TRAVELING PUBLIC, ONLY PLACE SIGNS, BANNERS, FLAGS OR OTHER DISPLAYS WITHIN THE PROJECT LIMITS THAT MEET THE REQUIREMENTS OF THE LATEST VERSION OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ANY SIGNS OR OTHER MATERIALS WHICH DEVIATE FROM THE MUTCD, MUST BE APPROVED BY THE ENGINEER. THE ONLY SIGNAGE AND MATERIALS WHICH MAY BE DISPLAYED UPON VEHICLES AND EQUIPMENT WITHIN THE PROJECT AREA ARE SIGNS DENOTING THE NAME OF THE CONTRACTOR AND ANY SUBCONTRACTORS AND OTHER SIGNS AND/OR MATERIALS REQUIRED AND APPROVED PURSUANT TO THE MUTCD AND THE ENGINEER. CONTRACTOR SHALL REMOVE ANY SIGNS OR MATERIALS WITHIN THE PROJECT THAT DO NOT MEET THESE REQUIREMENTS IMMEDIATELY UPON NOTIFICATIONS BY THE ENGINEER. FAILURE TO REMOVE SIGNS OR OTHER MATERIALS FOLLOWING NOTIFICATION FROM THE ENGINEER WILL RESULT IN LIQUIDATED DAMAGES BEING ASSESSED IN THE MANNER AND AMOUNT SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 108.9A.

ALLOWABLE HOURS FOR LANE CLOSURES ON PIKE CREEK ROAD

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	
SUNDAY																									
MONDAY																									
TUESDAY																									
WEDNESDAY																									
THURSDAY																									
FRIDAY																									
SATURDAY																									

SINGLE LANE AND TURN LANE CLOSURE PERMITTED  
 ALL LANES OPEN

ALLOWABLE HOURS FOR LANE CLOSURES ON PAPER MILL ROAD AND POLLY DRUMMOND HILL ROAD

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	
SUNDAY																									
MONDAY																									
TUESDAY																									
WEDNESDAY																									
THURSDAY																									
FRIDAY																									
SATURDAY																									

SINGLE LANE AND TURN LANE CLOSURE PERMITTED  
 ALL LANES OPEN

ALLOWABLE HOURS FOR DETOURING NORTH STAR ROAD AND UPPER PIKE CREEK ROAD

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	
SUNDAY																									
MONDAY																									
TUESDAY																									
WEDNESDAY																									
THURSDAY																									
FRIDAY																									
SATURDAY																									

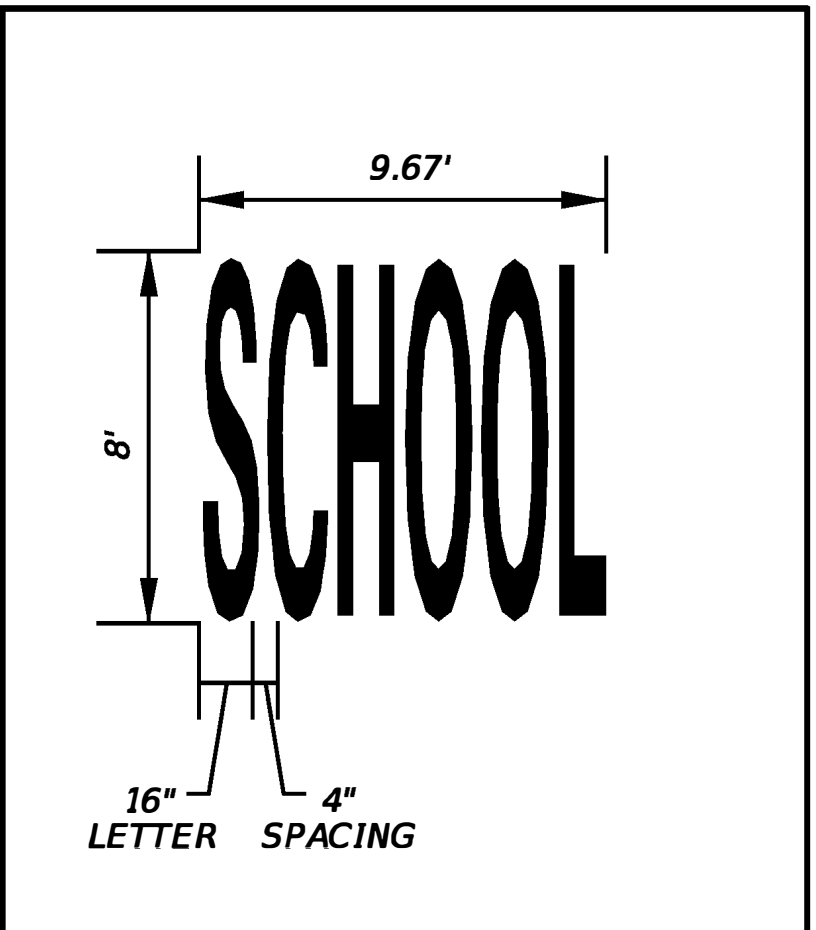
ROADWAY DETOUR PERMITTED  
 ROADWAY OPEN

**PEDESTRIAN IMPROVEMENTS GENERAL NOTES**

- PEDESTRIAN CONNECTIONS EVALUATED FOR COMPLIANCE ON AUGUST 29TH, 2023.
- ANY CHANGES TO THE PEDESTRIAN CONNECTIONS AFTER AUGUST 29TH, 2023 HAVE NOT BEEN ACCOUNTED FOR IN PROPOSED IMPROVEMENTS.
- IMPROVEMENTS TO PEDESTRIAN CONNECTIONS INCLUDED ARE BASED ON THE LIMITS OF PAVEMENT. IF THE LIMIT OF PAVEMENT IS INCREASED CONTACT THE ENGINEER.
- IF REHABILITATION OF PAVEMENT DAMAGES PEDESTRIAN CONNECTIONS NOT PROPOSED FOR REMEDIATION CONTACT ENGINEER.

**MOT GENERAL NOTES**

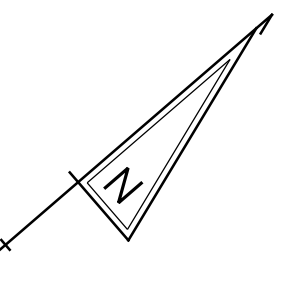
- MAINTENANCE OF TRAFFIC DURING LANE CLOSURES SHALL CONFORM TO TYPICAL APPLICATION TA-3, TA-3A, TA-10, TA-11B, TA-17A, TA-21, TA-21A, TA-23, TA-27, TA-33, AND TA-35D OF THE DELAWARE MUTCD AS NECESSARY.
- WHEN UTILIZING TA-10, THE CLOSED PORTION OF THE TRAVEL LANE SHALL NOT EXCEED 1000 FEET.
- MAINTAIN PEDESTRIAN ACCESS UTILIZING PEDESTRIAN FLAGGERS AND/OR TA-28 AND TA-29 OF THE DELAWARE MUTCD AS NECESSARY.
- MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES EXCEPT AS NOTED.
- UNLESS NOTED ELSEWHERE, LANE CLOSURE MATRICES INDICATE THE ALLOWABLE WORK TIMES FOR TRAVEL AND TURN LANE CLOSURES ON ALL ROADS WITHIN THE PROJECT LIMITS.



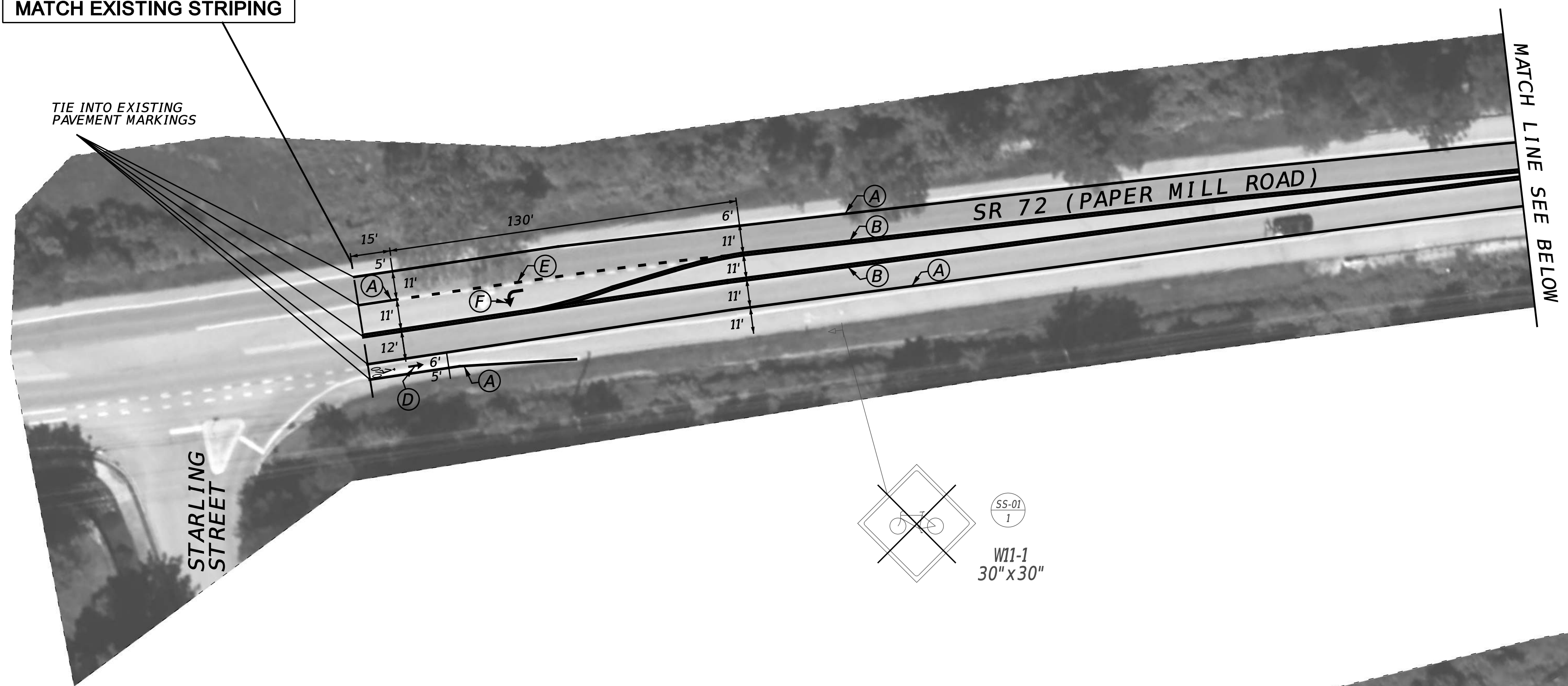
**FIGURE 1**  
**"SCHOOL" PAVEMENT MARKING**  
 DETAIL FOR LANE WIDTH > 10.5'

ADDENDUMS / REVISIONS		NOT TO SCALE	PAVEMENT & REHABILITATION, NORTH I, 2024	CONTRACT	ROAD NO.	N013/N295/N316/N328	PROJECT NOTES	SECTION
				T202406101	DESIGNED BY: J. CLEM	JMT		
				COUNTY	CHECKED BY: R. KUSY			SHEET NO.
				NEW CASTLE				3

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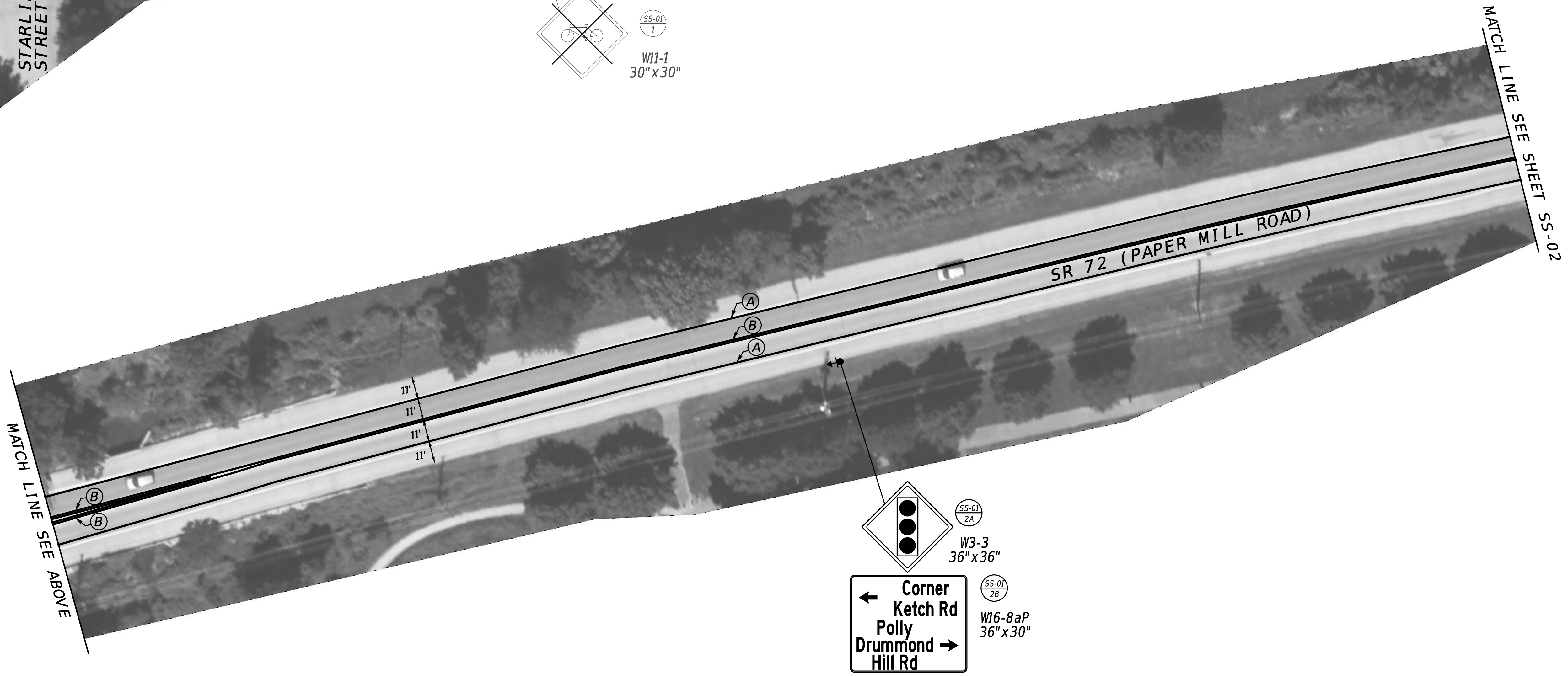


LIMITS OF CONSTRUCTION  
CONTRACT NO. T202406101  
MATCH EXISTING STRIPING



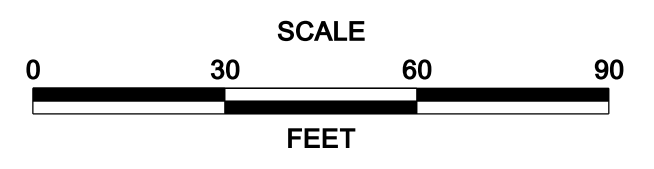
PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,745 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	3,740 LF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	1 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	40 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	17 SF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	30 EA

NOTES:  
1. CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.



STATES  
TIMES  
\$FILES

ADDENDUMS / REVISIONS



PAVEMENT & REHABILITATION,  
NORTH I, 2024  
PAPER MILL ROAD

CONTRACT	ROAD NO.	N013
T202406101	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

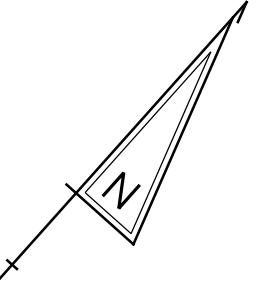
SIGNING AND  
STRIPING PLAN

SS-01
SECTION
JMT
SHEET NO.
4

PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,370 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,620 LF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	3 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	365 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	51 SF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	31 EA

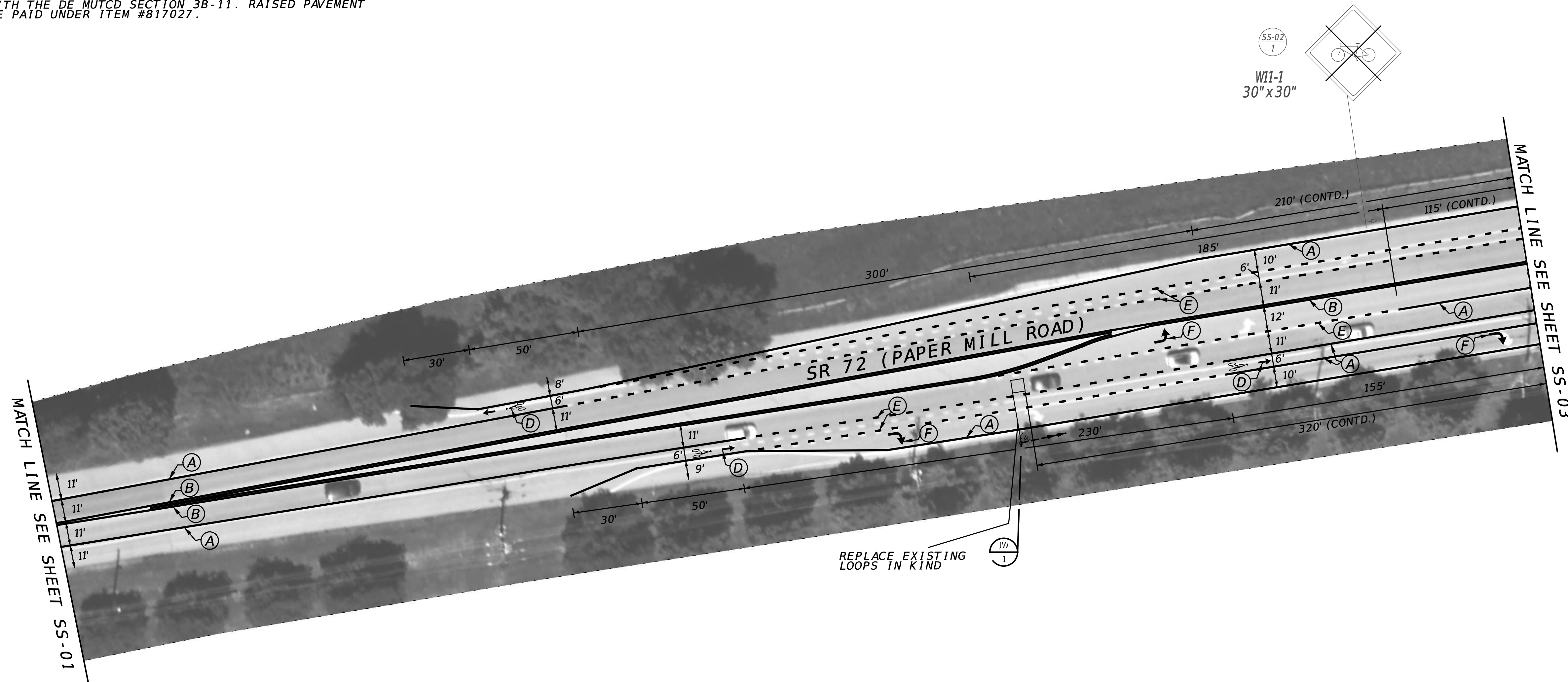
SIGNAL LEGEND	
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

SIGNAL LOOP QUANTITIES	
	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	45 LF
PROVIDE & INSTALL A 1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	10 LF



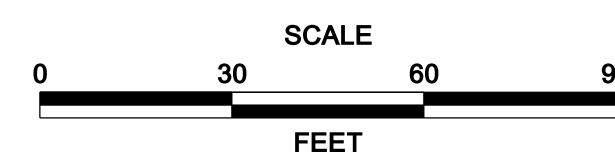
NOTES:

- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
- TRAFFIC CONTRACTOR TO INSTALL TEMPORARY DETECTION PER TEMPORARY SIGNAL PLAN PRIOR TO DISCONNECTING LOOPS.
- CONTACT DELDOT TMC 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS AT 302-659-4600.
- SPLICE TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
- TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPLICING TRAFFIC SIGNAL DETECTION LOOPS.
- CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.



STATES  
TIMES  
FILES

ADDENDUMS / REVISIONS



PAVEMENT & REHABILITATION,  
NORTH I, 2024  
PAPER MILL ROAD

CONTRACT	ROAD NO.	N013
T202406101	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

SIGNING AND  
STRIPING PLAN

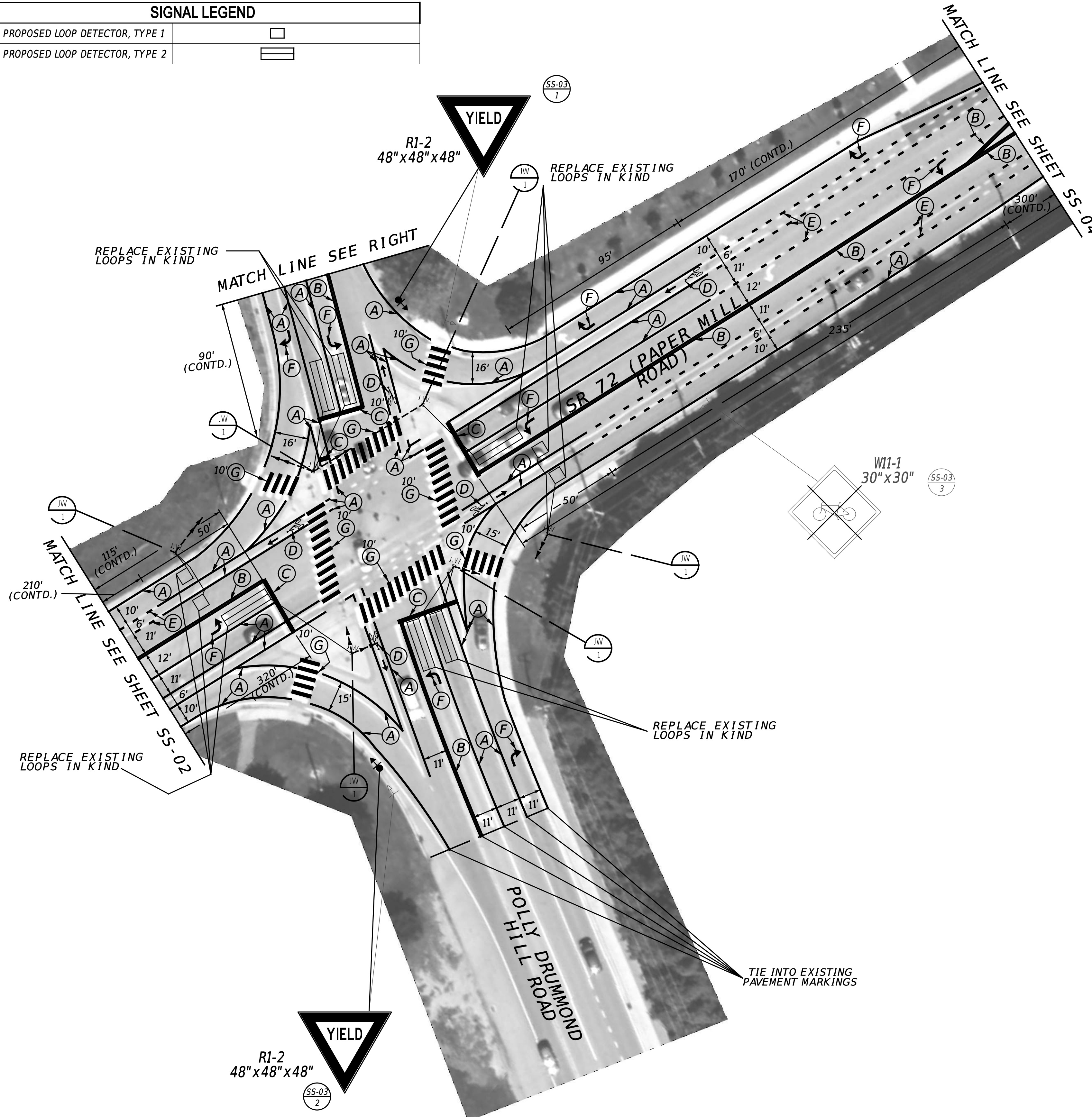
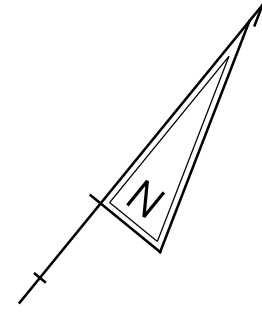
SS-02

SECTION	JMT
SHEET NO.	5

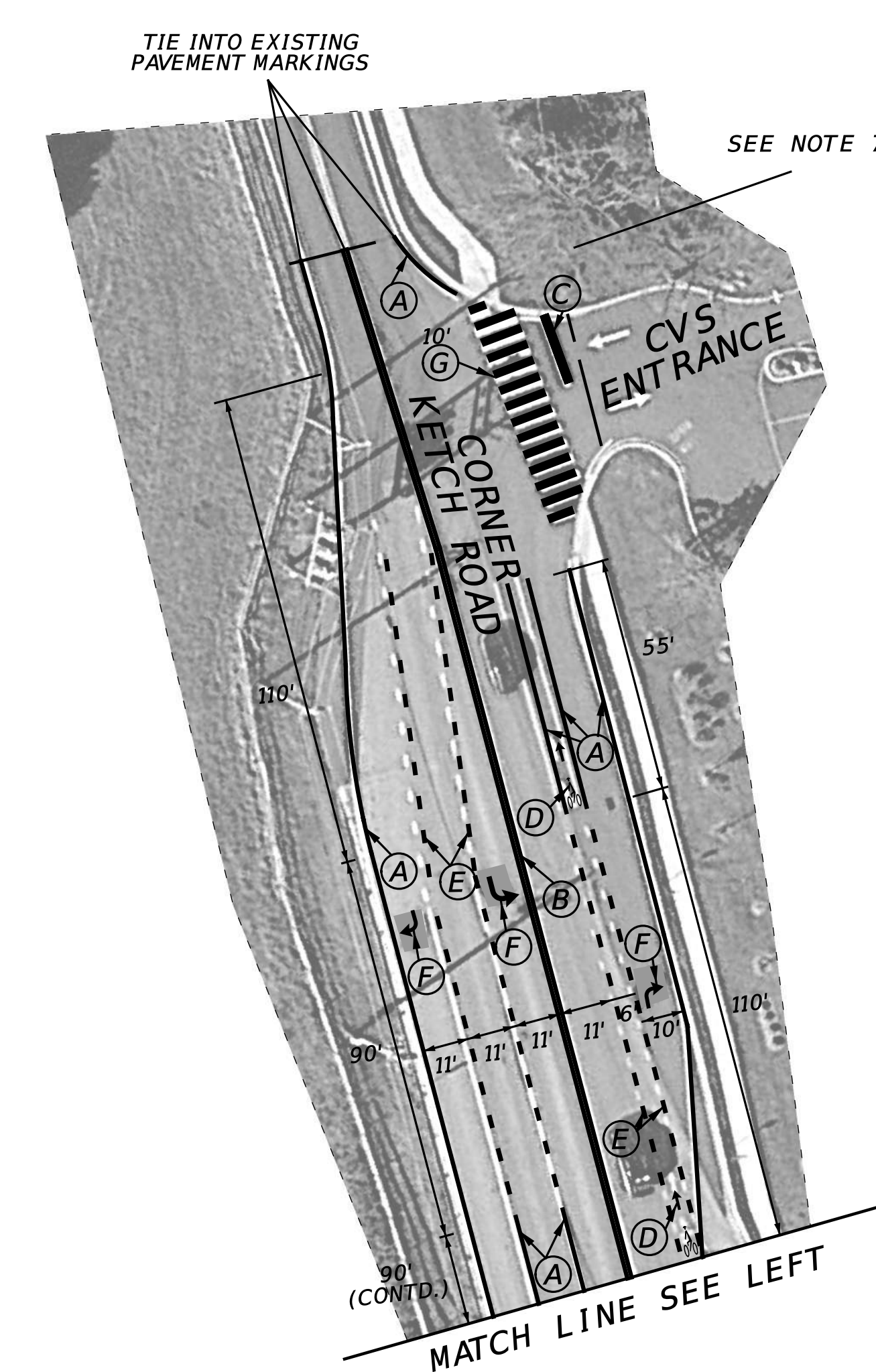
SIGNAL LOOP QUANTITIES	
	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	885 LF
PROVIDE & INSTALL A 1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	120 LF

SIGNAL LEGEND	
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

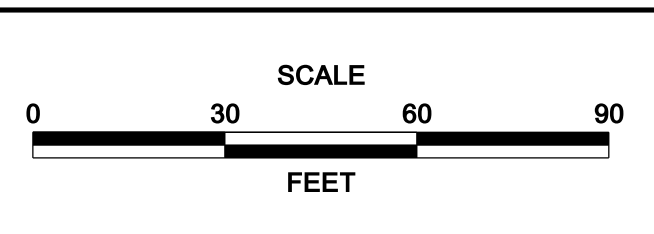
PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	4,520 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,230 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	177 SF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	7 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	245 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	204 SF
(G)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	1649 SF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	22 EA



- NOTES:
- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
  - TRAFFIC CONTRACTOR TO INSTALL TEMPORARY DETECTION PER TEMPORARY SIGNAL PLAN PRIOR TO DISCONNECTING LOOPS. TEMPORARY WAVETRONIX DETECTION TO REMAIN DEACTIVATED IN ULTIMATE CONDITION AFTER ULTIMATE LOOP DETECTORS ARE OPERATIONAL.
  - CONTACT DELDOT TMC 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS AT 302-659-4600.
  - SPlice TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
  - TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPLICING TRAFFIC SIGNAL DETECTION LOOPS.
  - CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.
  - NEWER AERIAL HAS BEEN USED FOR THIS SHEET CUT DUE TO DRIVEWAY BEING LOCATED FURTHER UP CORNER KETCH ROAD



ADDENDUMS / REVISIONS



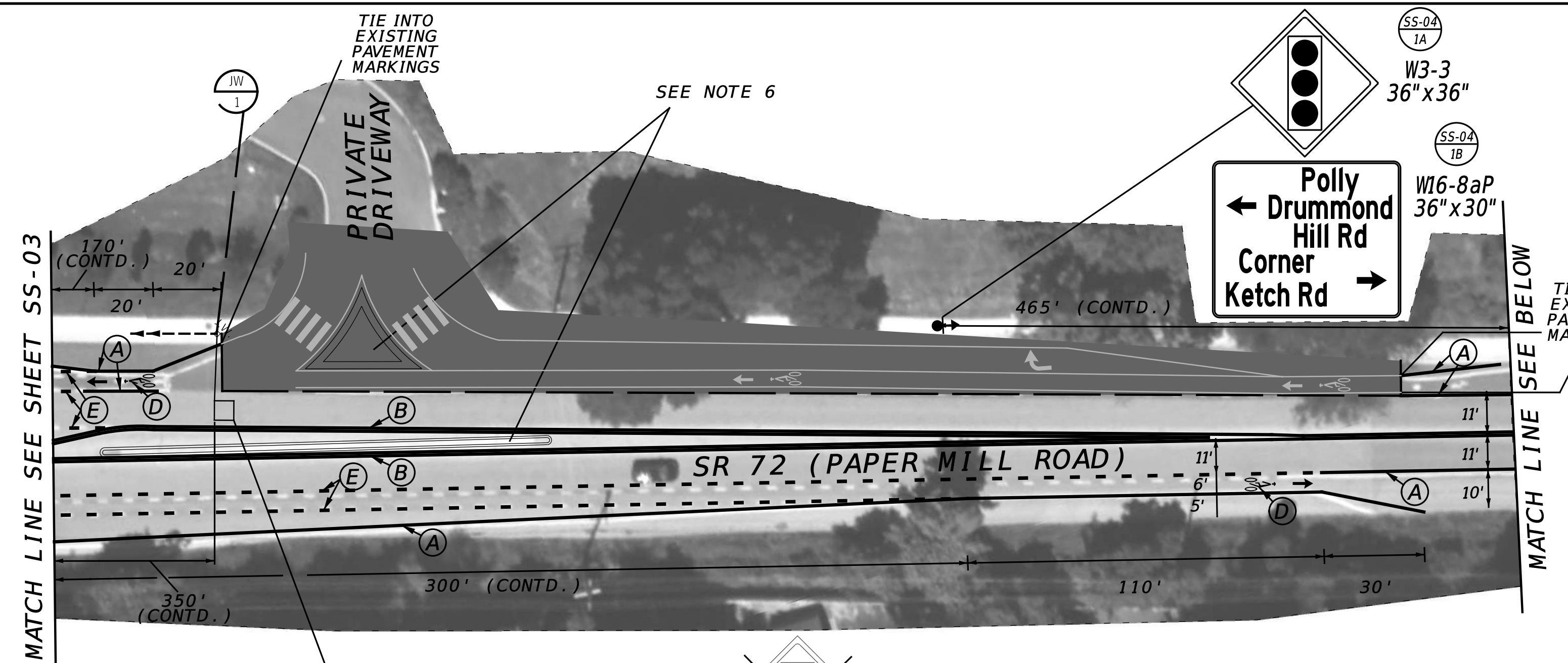
**PAVEMENT & REHABILITATION,  
NORTH I, 2024  
PAPER MILL ROAD**

CONTRACT	T202406101	ROAD NO.	N013
COUNTY	NEW CASTLE	DESIGNED BY:	J. CLEM
		CHECKED BY:	R. KUSY

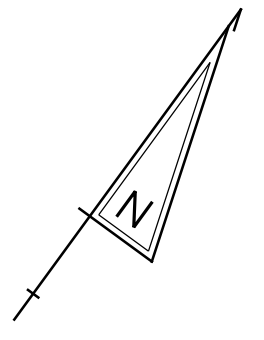
**SIGNING AND STRIPING PLAN**

SS-03
SECTION
JMT
SHEET NO.
6

STATES  
TIMES  
FILES

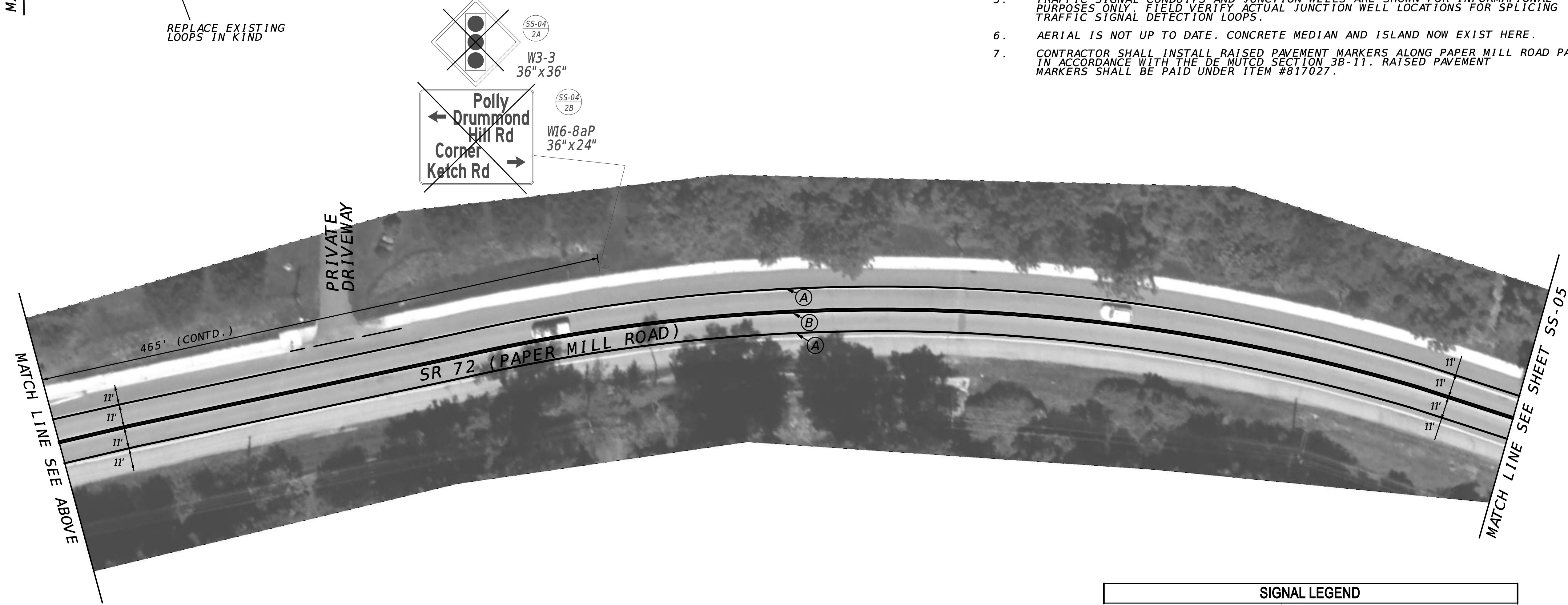


PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,315 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	3,465 LF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	2 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	185 LF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	36 EA



**NOTES:**

- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
- TRAFFIC CONTRACTOR TO INSTALL TEMPORARY DETECTION PER TEMPORARY SIGNAL PLAN PRIOR TO DISCONNECTING LOOPS. TEMPORARY WAVE TRONIX DETECTION TO REMAIN DEACTIVATED IN ULTIMATE CONDITION AFTER ULTIMATE LOOP DETECTORS ARE OPERATIONAL.
- CONTACT DELDOT TMC 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS AT 302-659-4600.
- SPLICE TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
- TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPLICING TRAFFIC SIGNAL DETECTION LOOPS.
- AERIAL IS NOT UP TO DATE. CONCRETE MEDIAN AND ISLAND NOW EXIST HERE.
- CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.

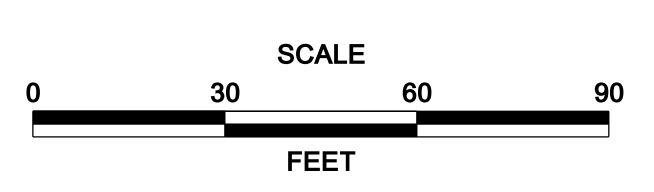


SIGNAL LEGEND	
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

SIGNAL LOOP QUANTITIES	
DESCRIPTION	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	45 LF
PROVIDE & INSTALL A 1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	5 LF

STATES  
TIMES  
\$FILES

ADDENDUMS / REVISIONS



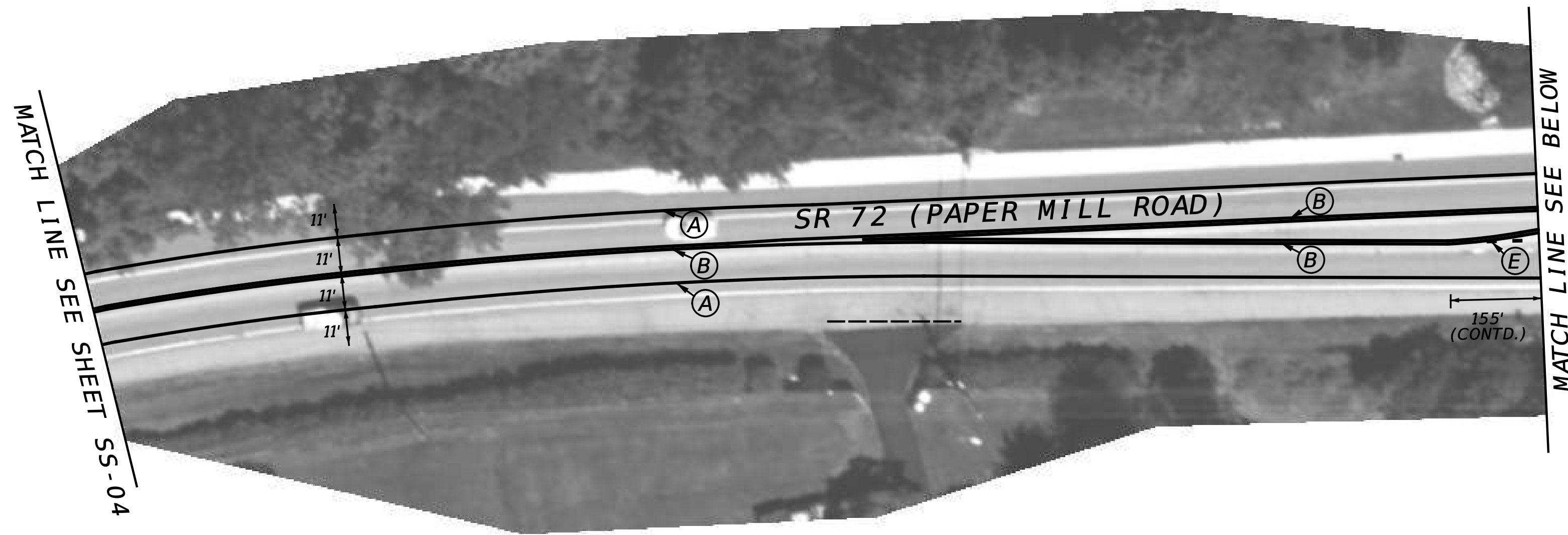
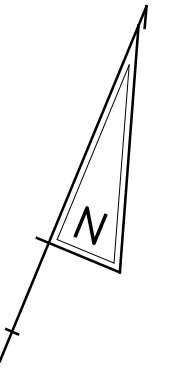
**PAVEMENT & REHABILITATION,  
NORTH I, 2024  
PAPER MILL ROAD**

CONTRACT	ROAD NO.	<b>N013</b>
T202406101	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

**SIGNING AND  
STRIPING PLAN**

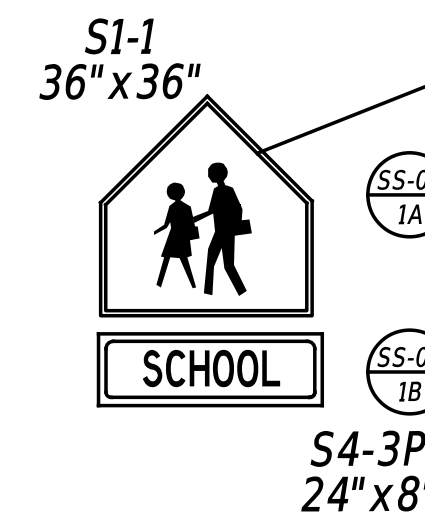
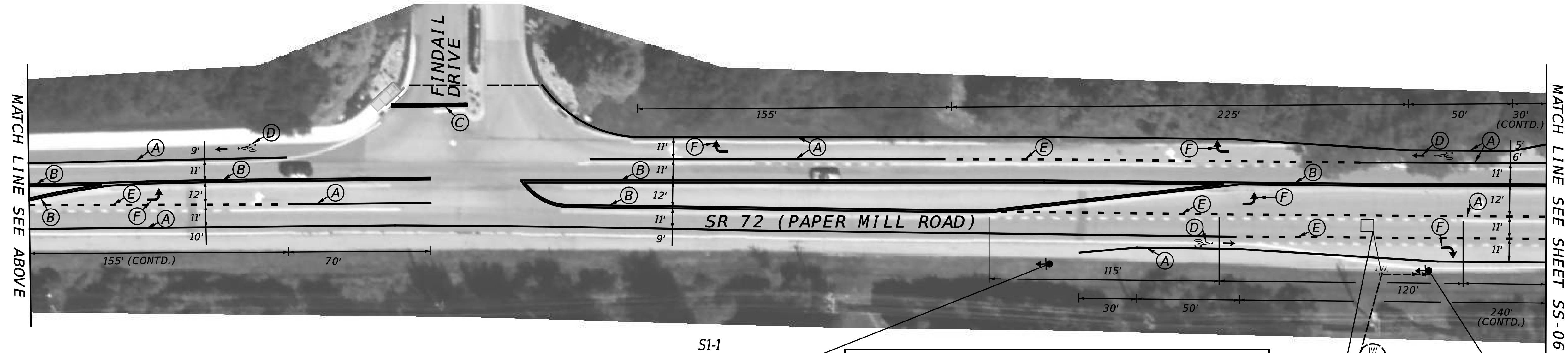
SS-04
SECTION
JMT
SHEET NO.
7

PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,905 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	3,905 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	31 SF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	3 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	210 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	68 SF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	41 EA



**NOTES:**

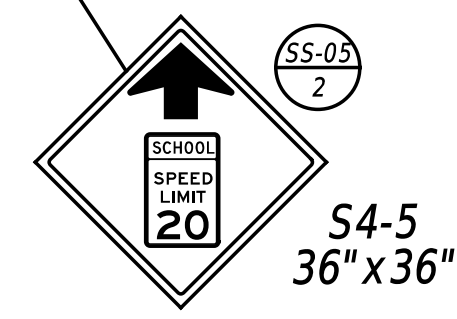
- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
- TRAFFIC CONTRACTOR TO INSTALL TEMPORARY DETECTION PER TEMPORARY SIGNAL PLAN PRIOR TO DISCONNECTING LOOPS. TEMPORARY WAVETRONIX DETECTION TO REMAIN DEACTIVATED IN ULTIMATE CONDITION AFTER ULTIMATE LOOP DETECTORS ARE OPERATIONAL.
- CONTACT DELDOT TMC 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS AT 302-659-4600.
- SPLICE TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
- TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPLICING TRAFFIC SIGNAL DETECTION LOOPS.
- CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.
- SIGNS 1A AND 2B SHALL BE FLUORESCENT YELLOW GREEN SIGNS.



SIGNAL LEGEND	
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

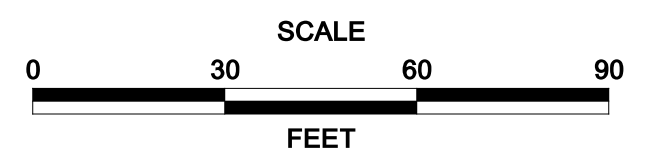
REPLACE EXISTING LOOPS IN KIND

SIGNAL LOOP QUANTITIES	
	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	45 LF
PROVIDE & INSTALL A 1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	5 LF



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ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION,  
NORTH I, 2024  
PAPER MILL ROAD**

CONTRACT	T202406101	ROAD NO.	N013
COUNTY	NEW CASTLE	DESIGNED BY:	J. CLEM
		CHECKED BY:	R. KUSY

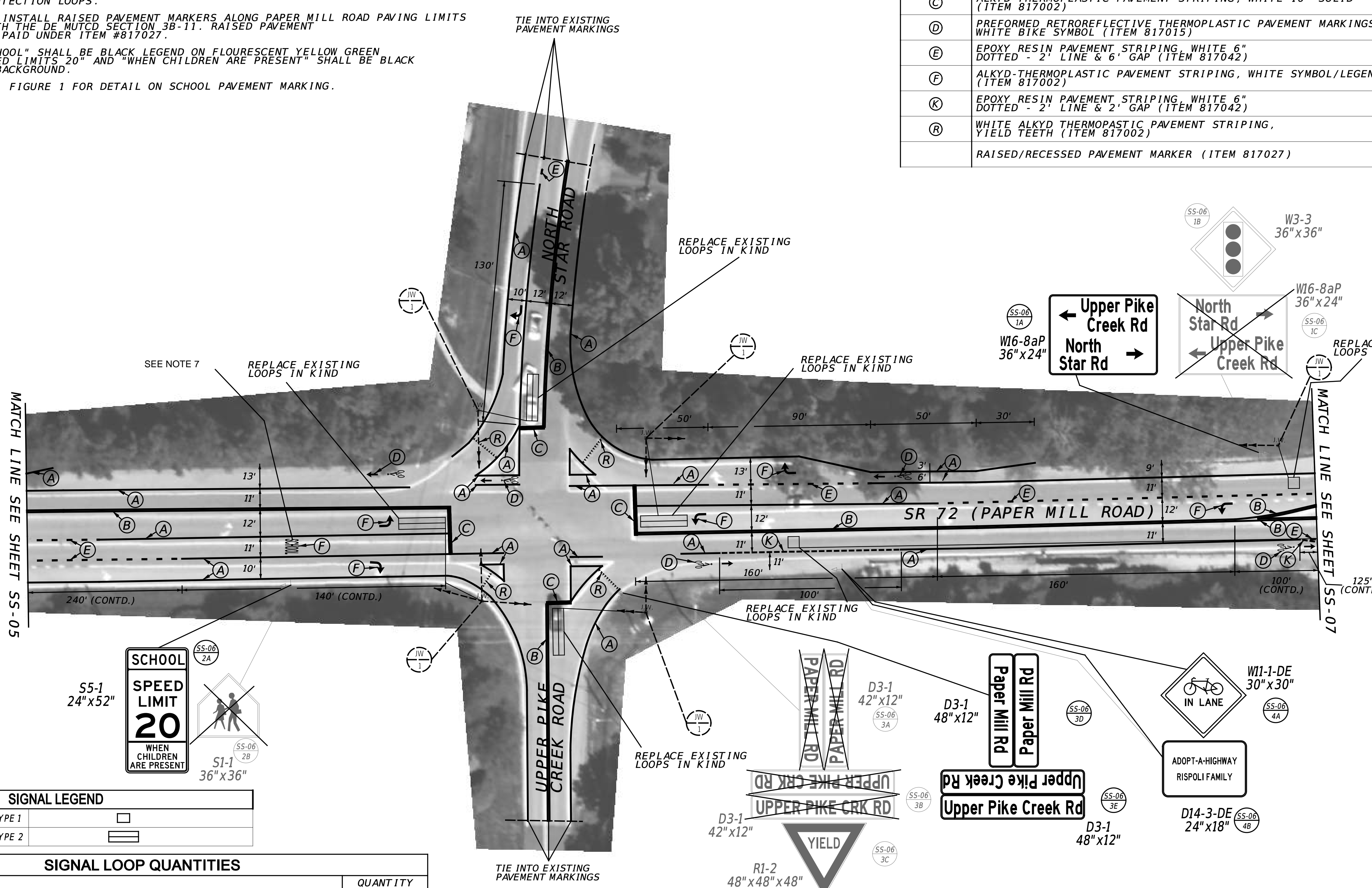
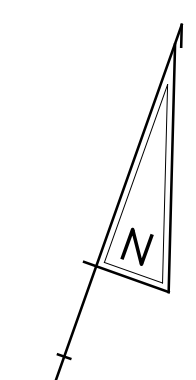
**SIGNING AND STRIPING PLAN**

SS-05
SECTION
JMT
SHEET NO.
8

**NOTES:**

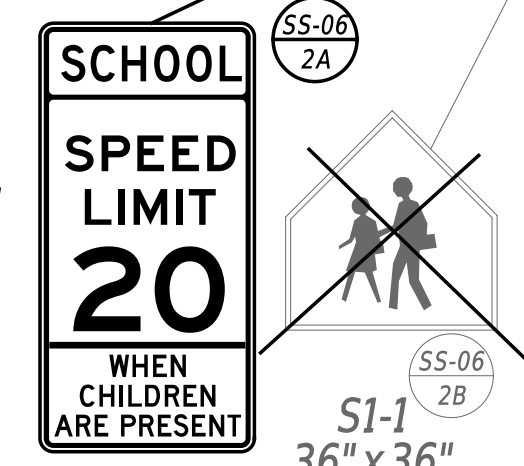
- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
- CONTACT DELDOT TMC AT 302-659-4600 AT LEAST 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS. COORDINATE WITH THE TMC TO PLACE THE SIGNAL IN RECALL MODE WHILE THE TRAFFIC SIGNAL DETECTION LOOPS ARE NOT OPERATIONAL.
- SPLICE TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
- TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPLICING TRAFFIC SIGNAL DETECTION LOOPS.
- CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.
- FOR SIGN 2A, "SCHOOL" SHALL BE BLACK LEGEND ON FLOURESCENT YELLOW GREEN BACKGROUND, "SPEED LIMITS 20" AND "WHEN CHILDREN ARE PRESENT" SHALL BE BLACK LEGEND ON WHITE BACKGROUND.
- REFER TO SHEET 3, FIGURE 1 FOR DETAIL ON SCHOOL PAVEMENT MARKING.

PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	3,010 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	1,965 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	114 SF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	5 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	100 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	106 SF
(K)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 2' GAP (ITEM 817042)	55 LF
(R)	WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, YIELD TEETH (ITEM 817002)	65 SF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	11 EA



MATCH LINE SEE SHEET SS-05

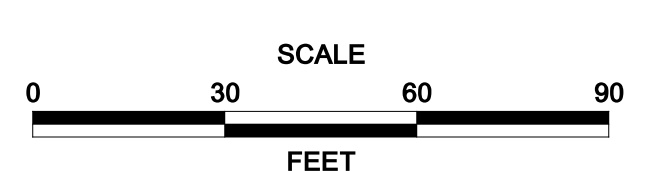
MATCH LINE SEE SHEET SS-07



SIGNAL LEGEND	
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

SIGNAL LOOP QUANTITIES	
	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	870 LF
PROVIDE & INSTALL A 1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	80 LF

ADDENDUMS / REVISIONS



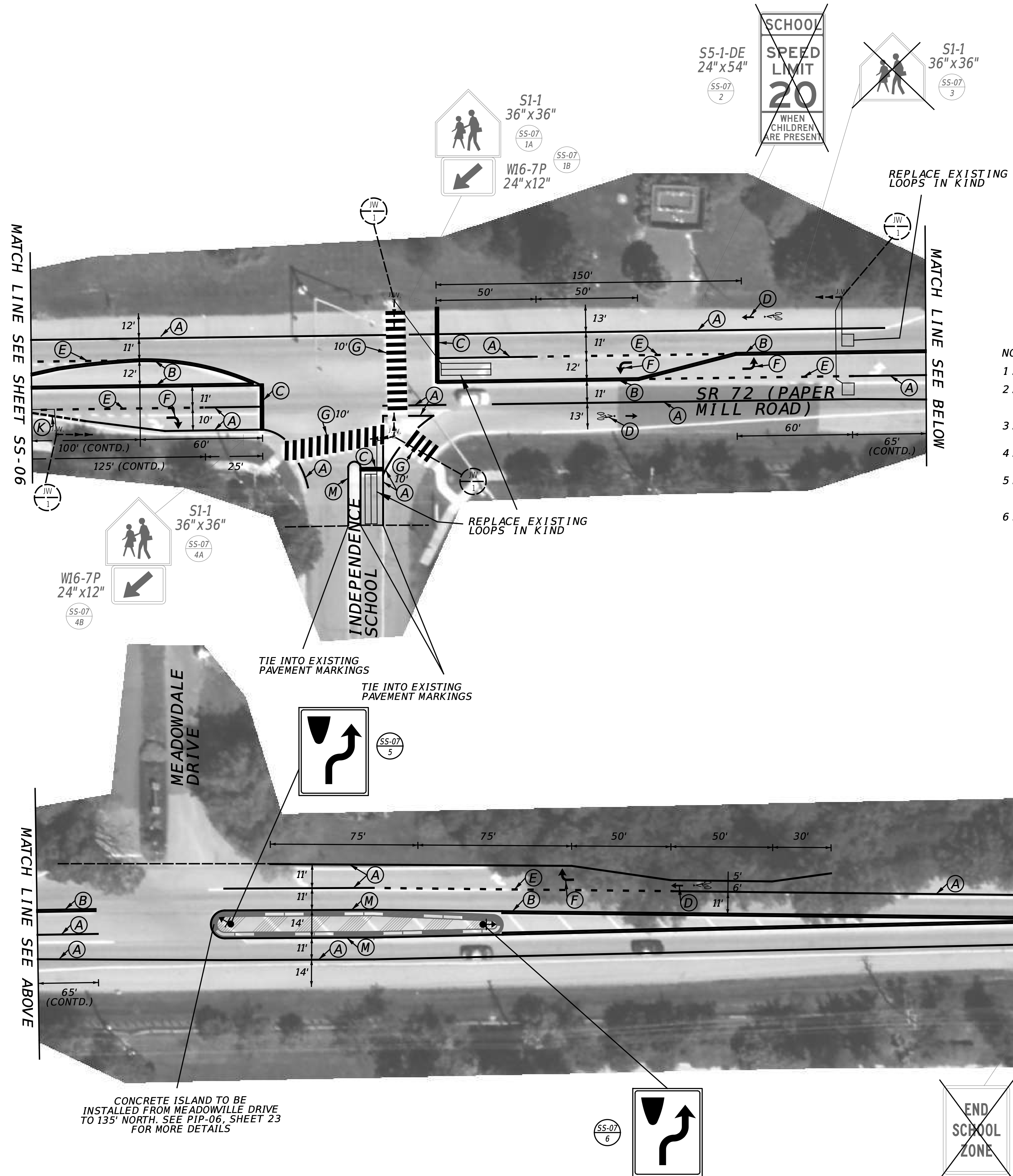
**PAVEMENT & REHABILITATION,  
NORTH I, 2024  
PAPER MILL ROAD**

CONTRACT	T202406101	ROAD NO.	N013
COUNTY	NEW CASTLE	DESIGNED BY:	J. CLEM
		CHECKED BY:	R. KUSY

**SIGNING AND STRIPING PLAN**

SS-06
SECTION
JMT
SHEET NO.
9

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PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,605 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,800 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	100 SF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	3 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	100 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	68 SF
(G)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	662 SF
(K)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 2' GAP (ITEM 817042)	15 LF
(M)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID (ITEM 817042)	405 LF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	38 EA

- NOTES:
- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
  - TRAFFIC CONTRACTOR TO INSTALL TEMPORARY DETECTION PER TEMPORARY SIGNAL PLAN PRIOR TO DISCONNECTING LOOPS. TEMPORARY WAVETRONIX DETECTION TO REMAIN DEACTIVATED IN ULTIMATE CONDITION AFTER ULTIMATE LOOP DETECTORS ARE OPERATIONAL.
  - CONTACT DELDOT TMC 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS AT 302-659-4600.
  - SPLICE TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
  - TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPLICING TRAFFIC SIGNAL DETECTION LOOPS.
  - CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.

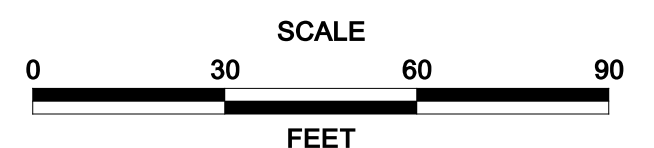
SIGNAL LEGEND	
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

SIGNAL LOOP QUANTITIES	
DESCRIPTION	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	400 LF
PROVIDE & INSTALL A 1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	25 LF

CONCRETE ISLAND TO BE INSTALLED FROM MEADOWVILLE DRIVE TO 135' NORTH. SEE PIP-06, SHEET 23 FOR MORE DETAILS

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ADDENDUMS / REVISIONS

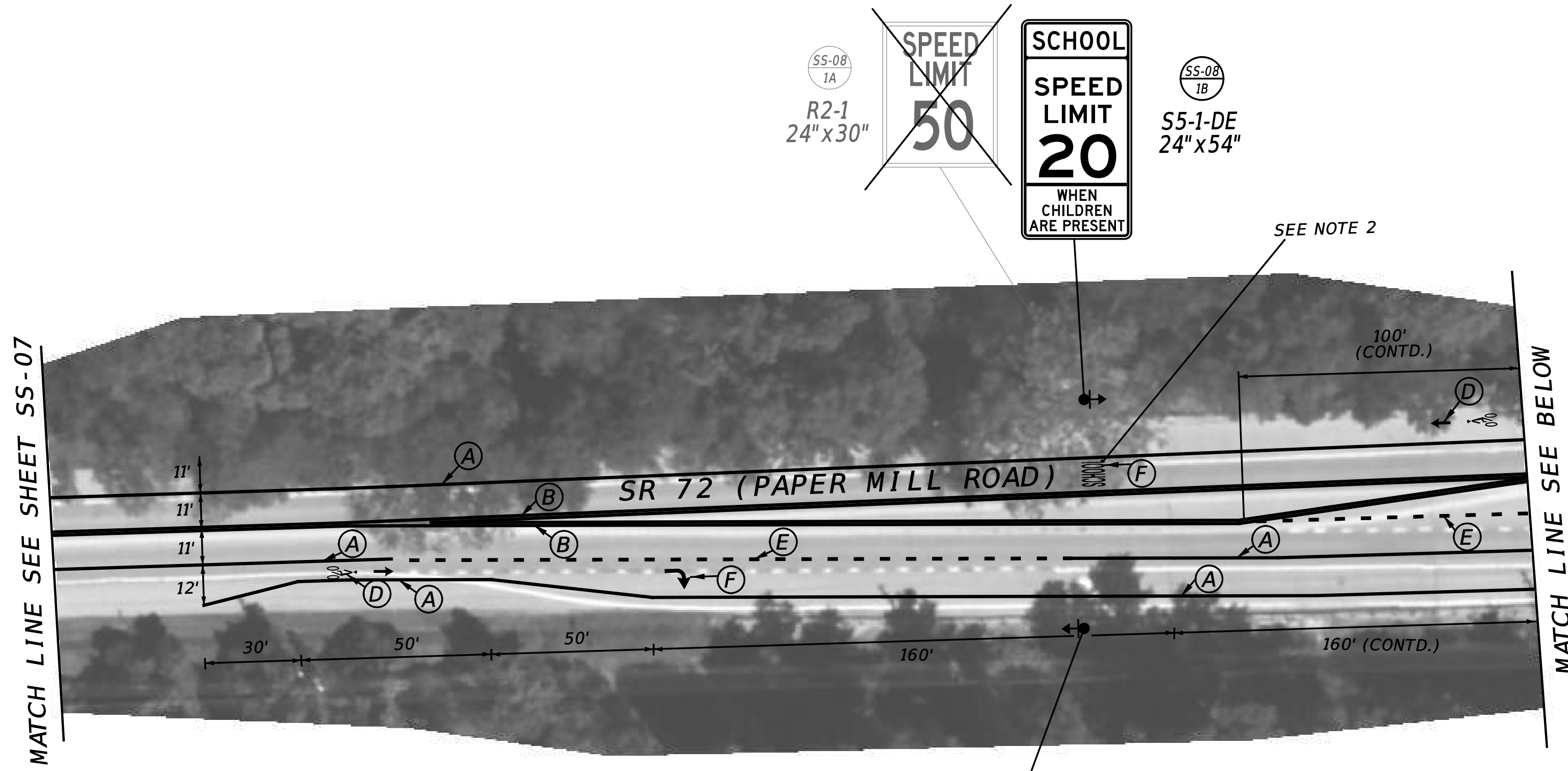
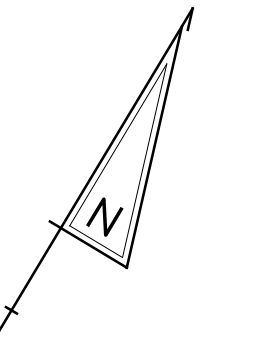


**PAVEMENT & REHABILITATION,  
NORTH I, 2024  
PAPER MILL ROAD**

CONTRACT	T202406101	ROAD NO.	N013
COUNTY	NEW CASTLE	DESIGNED BY:	J. CLEM
		CHECKED BY:	R. KUSY

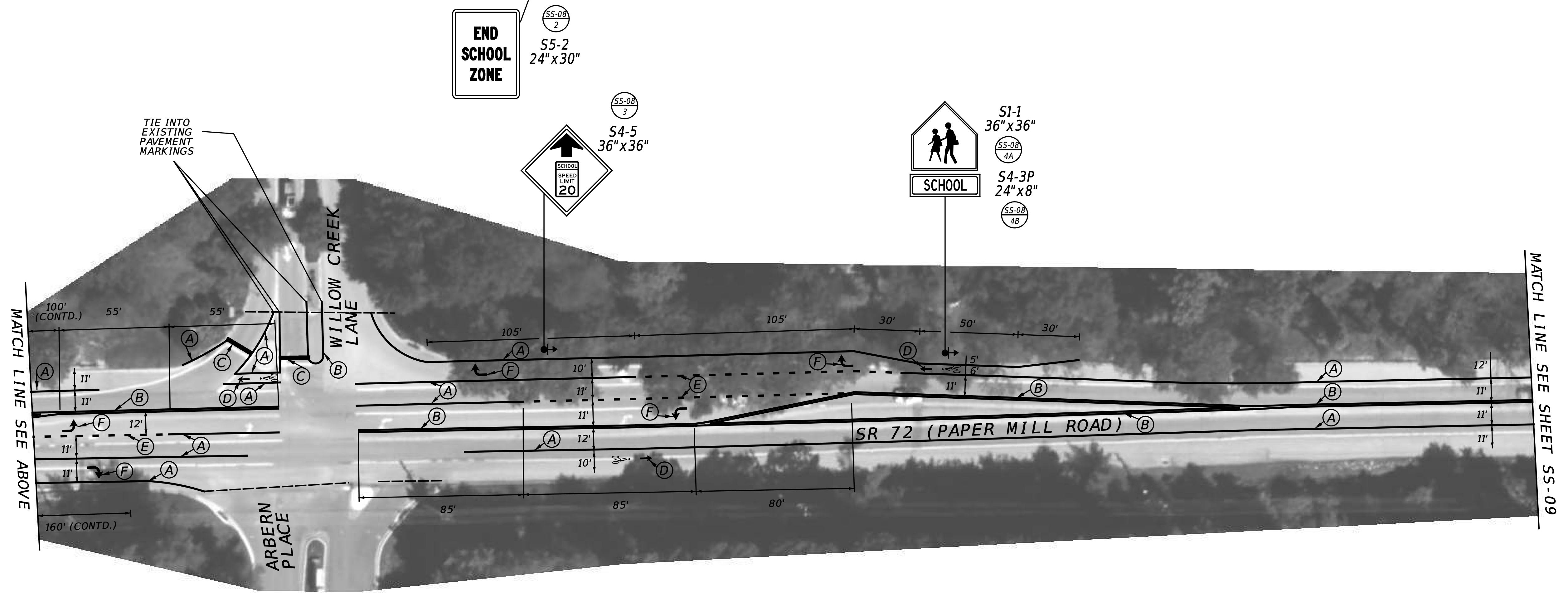
**SIGNING AND STRIPING PLAN**

SS-07
SECTION
JMT
SHEET NO.
10



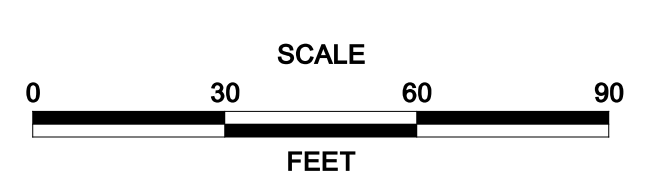
PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,900 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	4,090 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	41 SF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	5 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	190 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	140 SF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	37 EA

- NOTES:
- CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.
  - REFER TO SHEET 3, FIGURE 1 FOR DETAIL ON SCHOOL PAVEMENT MARKING.



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ADDENDUMS / REVISIONS

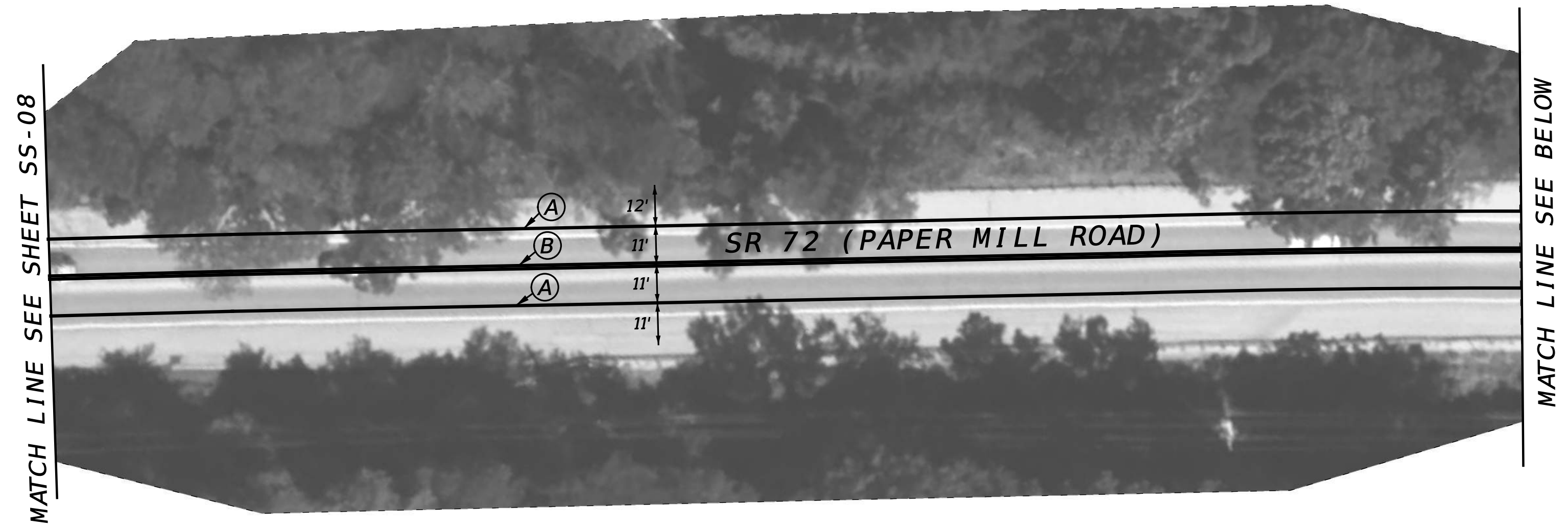
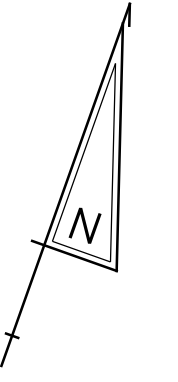


**PAVEMENT & REHABILITATION,  
NORTH I, 2024  
PAPER MILL ROAD**

CONTRACT T202406101	ROAD NO. N013
COUNTY NEW CASTLE	DESIGNED BY: J. CLEM CHECKED BY: R. KUSY

**SIGNING AND STRIPING PLAN**

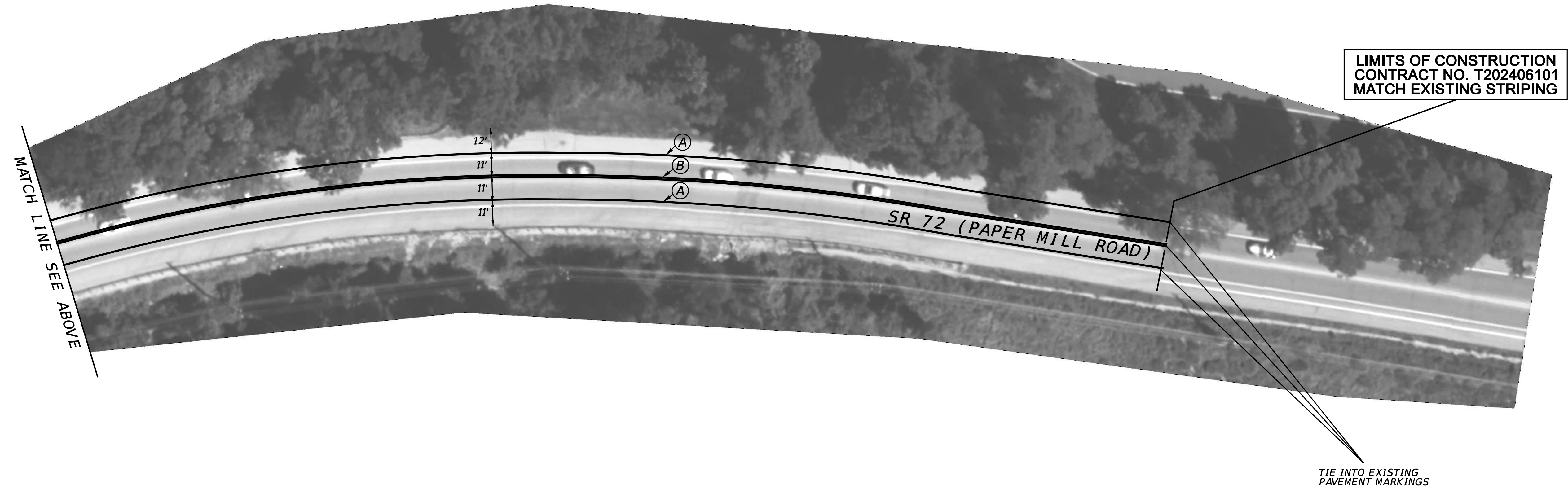
SS-08
SECTION JMT
SHEET NO. 11



PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
Ⓐ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,270 LF
Ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,270 LF
	RAISED/RECESSED PAVEMENT MARKER (ITEM 817027)	24 EA

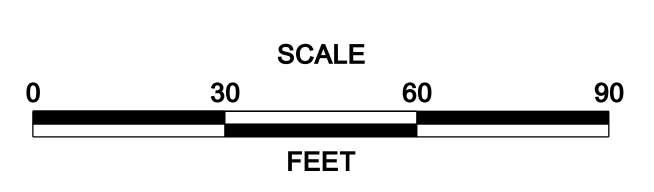
**NOTES:**

- CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS ALONG PAPER MILL ROAD PAVING LIMITS IN ACCORDANCE WITH THE DE MUTCD SECTION 3B-11. RAISED PAVEMENT MARKERS SHALL BE PAID UNDER ITEM #817027.



STATES  
TIMES  
\$FILES

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION,  
NORTH I, 2024  
PAPER MILL ROAD**

CONTRACT	ROAD NO.	<b>N013</b>
T202406101	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

<b>SIGNING AND STRIPING PLAN</b>	SECTION
	JMT
	SHEET NO.
	12

SS-09
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PERMANENT SIGN SCHEDULE - SR 72/PAPER MILL ROAD

SHEET NO.	PLAN IDENTIFIER	SIGN DESIGNATION	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	X13 / ITEM 818001 SUPPLY OF FLAT SHEET ALUMINUM, TYPE IV, RETROREFLECTIVE SHEETING (SF)	X14 / ITEM 818003 SUPPLY OF FLAT SHEET ALUMINUM, TYPE XI, RETROREFLECTIVE SHEETING (SF)	X15 / ITEM 819512 SIGN POST REFLECTIVE PANEL (EA)	ITEM 819018 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE POST (EACH)			ITEM 819019 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS (SF)			POST INSTALLATION TYPE	X16 / ITEM 819011 12' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	X17 / ITEM 819023 15' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	ITEM 819016 4" HOLE, 0-6" (EACH)	ITEM 819017 4" HOLE, >6" (EACH)	SIGN DISPOSITION	X14A FLAT SHEET ALUMINUM SIGN PANELS (TYPE XI SHEETING) - SIGNS ON POLES, SPAN WIRES, MAST ARMS (TRAFFIC SUPPLY)	ITEM 822500 INSTALL OVERHEAD SIGN (SF) ON SIGNAL POLES TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	ITEM 823003 REMOVAL OF SIGN ON SPAN WIRE OR MAST ARM (EA) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	ITEM 823001 INSTALLATION OF SIGN ON SPAN WIRE OR MAST ARM (SF) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	REMARKS
										SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL											
SS-01	1	W11-1(30)	1	BICYCLE (Symbol) - 30x30	30	30				REMOVE	1															
SS-01	2A	W3-3(36)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36	9.0				NEW															
SS-01	2B	W16-8aP	1	ADVANCE STREET NAME (4 - line plaque)	36	30	7.5				ADD TO ASSEMBLY		1													(Left Arrow) "Corner"/Ketch Rd"/"Polly"/"Drummond" (Right Arrow) "Hill Rd" (Highway Font C, 4", Normal Kerning)
SS-02	1	W11-1(30)	1	BICYCLE (Symbol) - 30x30	30	30				REMOVE	1															
SS-03	1	R1-2(46)	1	YIELD	46	48	6.9				RENEW	1	1													RENEW IN PROPOSED LOCATION
SS-03	2	R1-2(46)	1	YIELD	48	48	6.9				RENEW	1	1													RENEW IN PROPOSED LOCATION
SS-03	3	W11-1(30)	1	BICYCLE (Symbol) - 30x30	30	30				REMOVE	1															
SS-04	1A	W3-3(36)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36	9.0				NEW															
SS-04	1B	W16-8aP	1	ADVANCE STREET NAME (4 - line plaque)	36	30	7.5				ADD TO ASSEMBLY		1													(Left Arrow) "Polly"/"Drummond"/"Hill Rd"/"Corner" (Right Arrow) "Ketch Rd" (Highway Font C, 4", Narrow Kerning)
SS-04	2A	W3-3(36)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36					REMOVE	1														
SS-04	2B	W16-8aP	1	ADVANCE STREET NAME (4 - line plaque)	36	24					REMOVE	1														(Left Arrow) "Polly"/"Drummond"/"Hill Rd"/"Corner" (Right Arrow) "Ketch Rd"
SS-05	1A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36	9.0				NEW		1													
SS-05	1B	S4.3P(24)	1	SCHOOL - 24x8	24	8	1.3				ADD TO ASSEMBLY		1													
SS-05	2	S4.5(36)	1	REDUCED SPEED - SCHOOL ZONE AHEAD (Symbol) - 36x36	36	36	9.0				NEW															
SS-06	1A	W16-8aP	1	ADVANCE STREET NAME (4 - line plaque)	36	24	6.0				ADD TO ASSEMBLY		1													(Left Arrow) "Upper Pike"/"Creek Rd"/"North" (Right Arrow) "Star Rd" (Highway Font C, 4", Narrow Kerning)
SS-06	1B	W3-3(36)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36					REMAIN															
SS-06	1C	W16-8aP	1	ADVANCE STREET NAME (4 - line plaque)	36	24					REMOVE	1														"North" (Right Arrow) "Star Rd"/"Left Arrow" "Upper Pike"/"Creek Rd"
SS-06	2A	S5-1-DE(24)	1	SCHOOL SPEED LIMIT XX WHEN CHILDREN ARE PRESENT - 24x54	24	54	9.0				ADD TO ASSEMBLY		1													20 MPH
SS-06	2B	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36					REMOVE	1														"PAPER MILL RD"
SS-06	3A	D3-1(12)	1	STREET NAME (1 Line) Posted speed ≤ 40 MPH	36	12					REMOVE	1														"UPPER PIKE CRK RD"
SS-06	3B	D3-1(12)	2	STREET NAME (1 Line) Posted speed ≤ 40 MPH	42	12					REMAIN	2														
SS-06	3C	R1-2(46)	1	YIELD	48	48					REMAIN															
SS-06	3D	D3-1(18)	2	STREET NAME (1 Line) Posted speed > 40 MPH	48	18	12.0				NEW		2													"Paper Mill Rd" (Highway Font C 8'/6", 0.5" Kerning)
SS-06	3E	D3-1(18)	2	STREET NAME (1 Line) Posted speed > 40 MPH	48	18	12.0				NEW		2													"Upper Pike Creek Rd" (Highway Font B, 6'/5", 0.5 Kerning)
SS-06	4A	W11-1-DE(30)	2	BICYCLE (Symbol) IN LANE - 30x30	30	30	12.5				NEW		2													
SS-06	4B	D14-3-DE	1	ADOPT A HIGHWAY	24	18	3.0				RENEW	1	1													"RISPOLI FAMILY"
SS-07	1A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36					REMAIN															
SS-07	1B	W16-7P-L(24)	1	LEFT DOWNWARD DIAGONAL ARROW (plaque) - 24x12	24	12					REMAIN															
SS-07	2	S5-1-DE(24)	1	SCHOOL SPEED LIMIT XX WHEN CHILDREN ARE PRESENT - 24x54	24	54					REMOVE	1														20 MPH
SS-07	3	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36					REMOVE	1														
SS-07	4A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36					REMAIN															
SS-07	4B	W16-7P-L(24)	1	LEFT DOWNWARD DIAGONAL ARROW (plaque) - 24x12	24	12					REMAIN															
SS-07	5	R4-7(24)	1	KEEP RIGHT (Symbol) - 24x30	24	30	5.0				NEW		1													
SS-07	6	R4-7(24)	1	KEEP RIGHT (Symbol) - 24x30	24	30	5.0				NEW		1													
SS-07	7	S5-2(24)	1	END SCHOOL ZONE - 24x30	24	30					REMOVE	1														
SS-08	1A	R2-1-50(24)	1	SPEED LIMIT (50 MPH) - 24x30	24	30					REMOVE	1														
SS-08	1B	S5-1-DE(24)	1	SCHOOL SPEED LIMIT XX WHEN CHILDREN ARE PRESENT - 24x54	24	54					NEW		1													20 MPH
SS-08	2	S5-2(24)	1	END SCHOOL ZONE - 24x30	24	30	5.0				NEW		1													
SS-08	3	S4.5(36)	1	REDUCED SPEED - SCHOOL ZONE AHEAD (Symbol) - 36x36	36	36	9.0				NEW		1													
SS-08	4A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36	9.0				NEW		1													
SS-08	4B	S4.3P(24)	1	SCHOOL - 24x8	24	8	1.3				ADD TO ASSEMBLY		1													
PAGE TOTALS							94	71	0		17	25		0	0											

ADDENDUMS / REVISIONS

NOT TO SCALE

PAVEMENT & REHABILITATION,  
NORTH I, 2024  
PAPER MILL ROAD

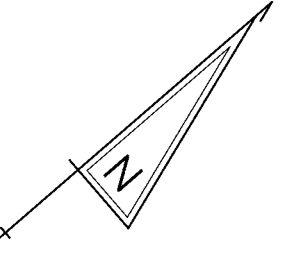
CONTRACT	ROAD NO.	N013
T202406101	DESIGNED BY: J. CLEM	
COUNTY	CHECKED BY: R. KUSY	
NEW CASTLE		

PERMANENT  
SIGN SCHEDULE

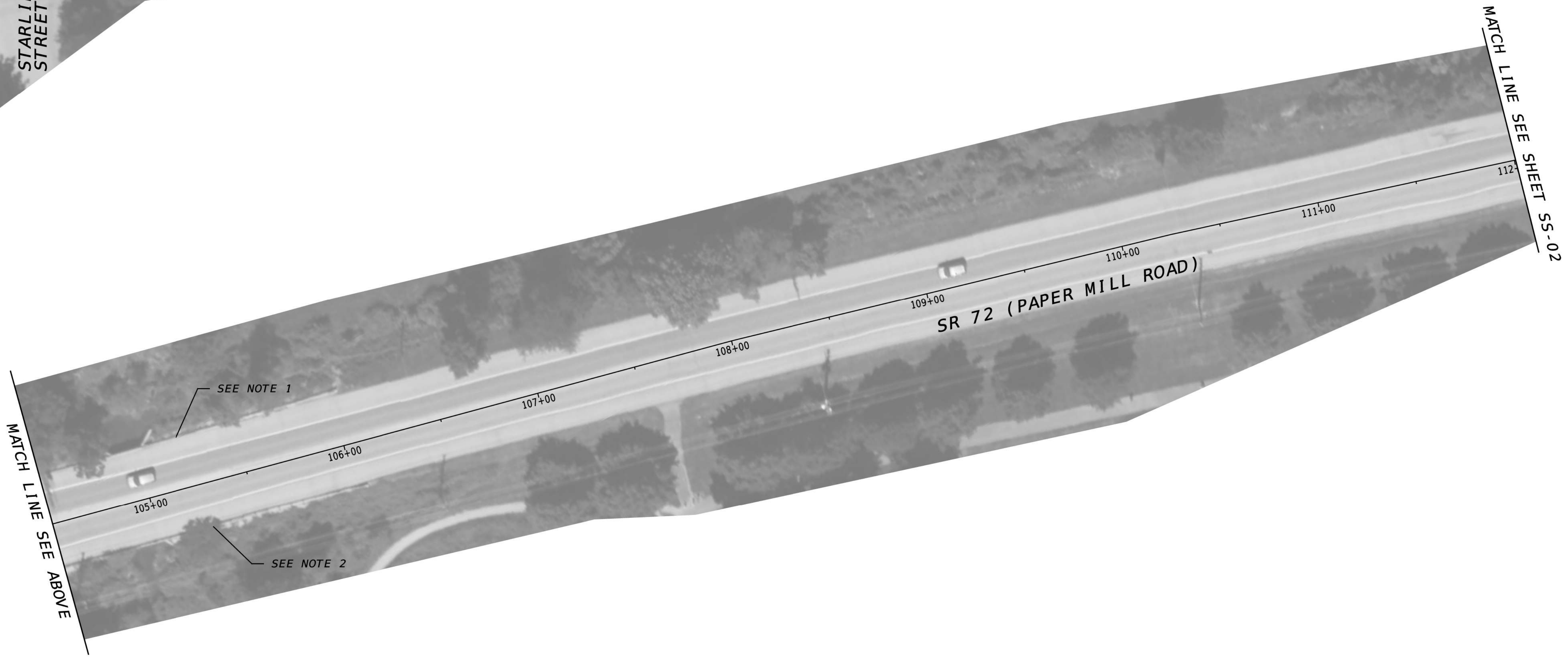
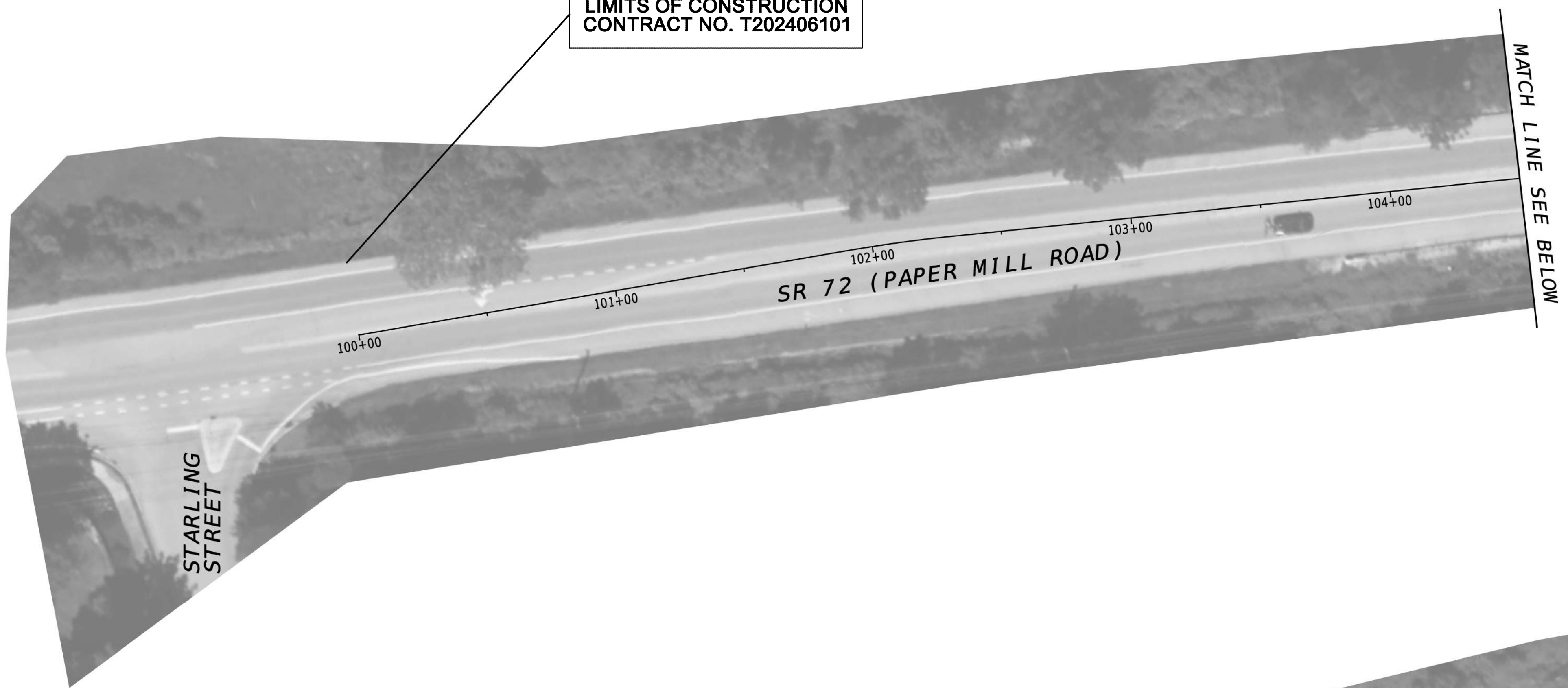
SECTION  
JMT  
SHEET NO.  
13

**NOTES**

1. EXISTING GUARDRAIL HEIGHT IS LESS THAN 31". EXISTING CHANGES IN GRADE PROHIBIT THE UPGRADE OF THE GUARDRAIL TO BE COMPLIANT WITH MASH STANDARD AND DELDOT'S STANDARD GUARDRAIL DETAILS. REGRADING OF THE AREA TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF THE PAVEMENT & REHABILITATION PROJECT.
2. EXISTING GUARDRAIL HEIGHT IS LESS THAN 31". THE GUARDRAIL OVER THE CULVERT AND THE EXISTING SHOULDER WIDTH PROHIBITS THE UPGRADE OF THE GUARDRAIL TO BE COMPLIANT WITH MASH STANDARD AND DELDOT'S STANDARD GUARDRAIL DETAILS. EXPANDING THE WIDTH OF THE ROADWAY TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF THE PAVEMENT & REHABILITATION PROJECT.

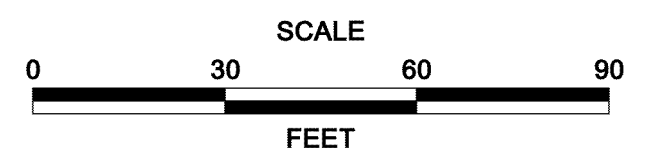


**LIMITS OF CONSTRUCTION  
CONTRACT NO. T202406101**



7-AUG-2024 17:04 p:\jmt-pw-bentley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\GR Files\GR - Paper Mill Road.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PAPER MILL ROAD**

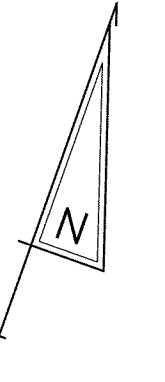
CONTRACT	ROAD NO.	<b>N013</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**GUARDRAIL PLANS**

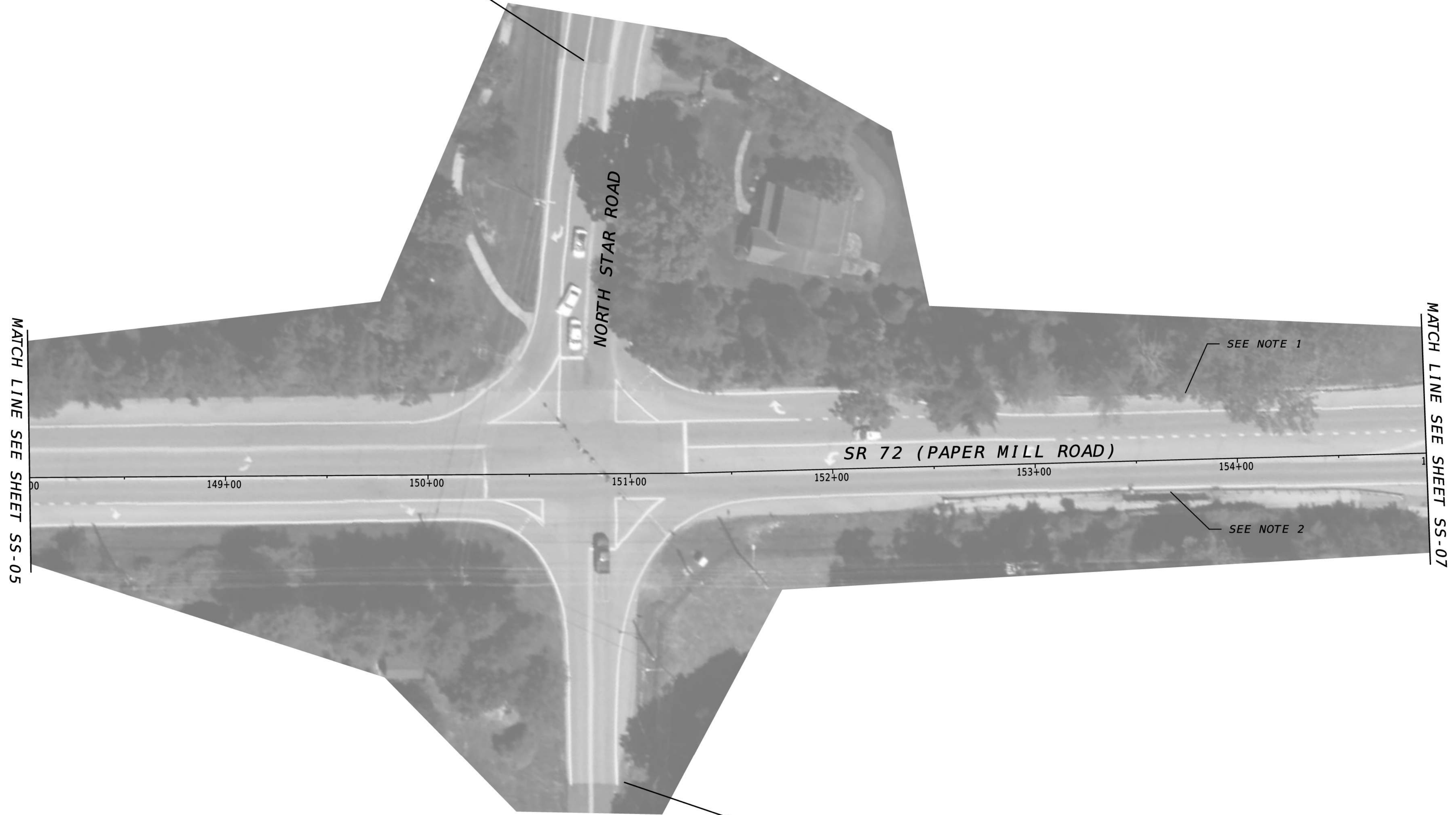
<b>GR-01</b>
SECTION
JMT
SHEET NO.
14

**NOTES**

1. EXISTING GUARDRAIL HEIGHT IS LESS THAN 31". EXISTING CHANGES IN GRADE PROHIBIT THE UPGRADE OF THE GUARDRAIL TO BE COMPLIANT WITH MASH STANDARD AND DELDOT'S STANDARD GUARDRAIL DETAILS. REGRADING OF THE AREA TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF THE PAVEMENT & REHABILITATION PROJECT.
2. EXISTING GUARDRAIL HEIGHT IS LESS THAN 31". THE GUARDRAIL OVER THE CULVERT AND THE EXISTING SHOULDER WIDTH PROHIBITS THE UPGRADE OF THE GUARDRAIL TO BE COMPLIANT WITH MASH STANDARD AND DELDOT'S STANDARD GUARDRAIL DETAILS. EXPANDING THE WIDTH OF THE ROADWAY TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF THE PAVEMENT & REHABILITATION PROJECT.



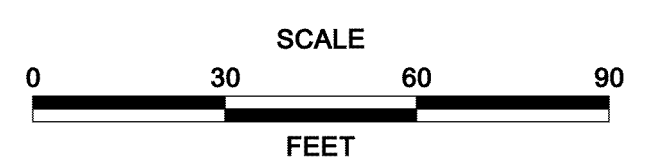
LIMITS OF CONSTRUCTION  
CONTRACT NO. T202406101



LIMITS OF CONSTRUCTION  
CONTRACT NO. T202406101

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ADDENDUMS / REVISIONS

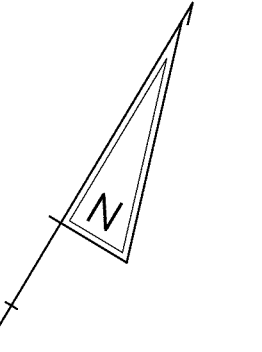


**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PAPER MILL ROAD**

CONTRACT	ROAD NO.	<b>N013</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**GUARDRAIL PLANS**

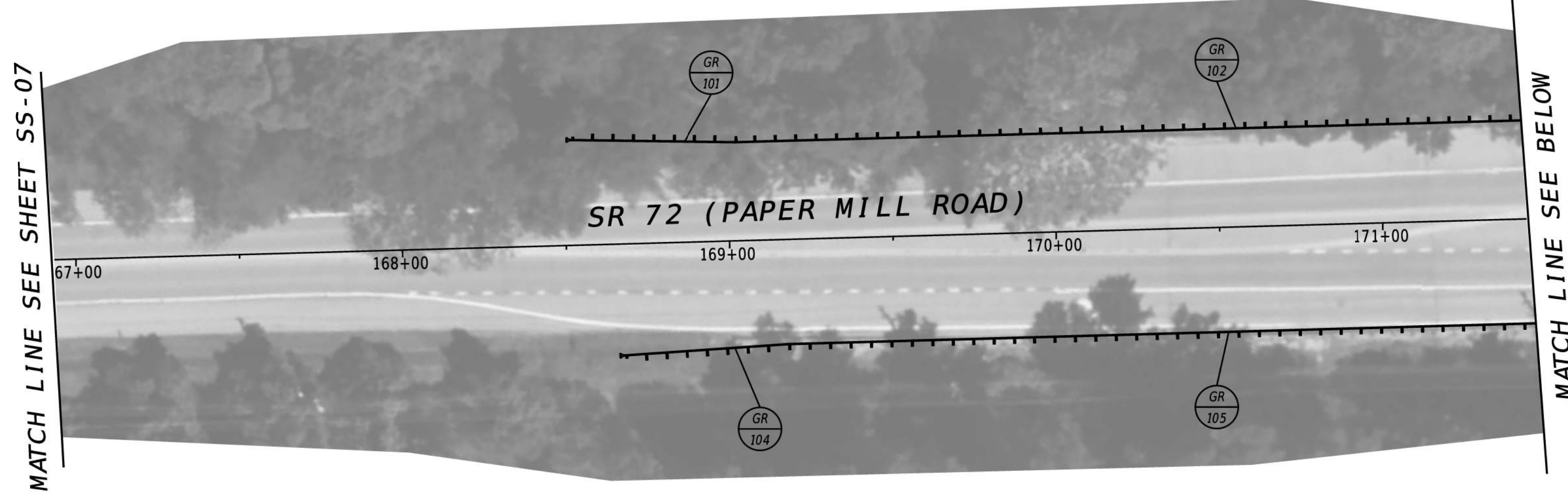
<b>GR-02</b>
SECTION
JMT
SHEET NO.
15



GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
101	END TREATMENT, ATTENUATOR TYPE 1	168+50.82	-32.00	50.00
102	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	169+02.57	-30.00	250.00
103	END TREATMENT, ATTENUATOR TYPE 1	171+52.61	-30.00	50.00
104	END TREATMENT, ATTENUATOR TYPE 1	168+65.47	32.00	50.00
105	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	169+17.24	32.00	237.50
106	END TREATMENT, ATTENUATOR TYPE 1	171+54.47	32.00	50.00
107	END TREATMENT, ATTENUATOR TYPE 1	175+86.82	-32.00	50.00
108	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31, STEEP SLOPE	176+38.46	-30.00	850.00

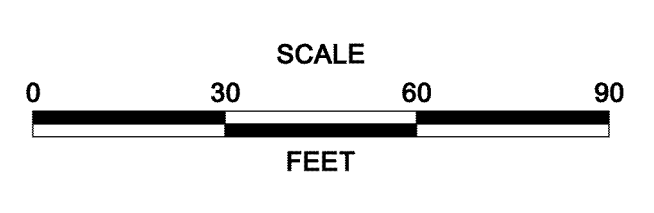
**NOTES**

- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
- SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.



7-AUG-2024 17:07 p:\jmt\pwr\benley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\GR Files\GR - Paper Mill Road.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PAPER MILL ROAD**

CONTRACT	ROAD NO.	<b>N013</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

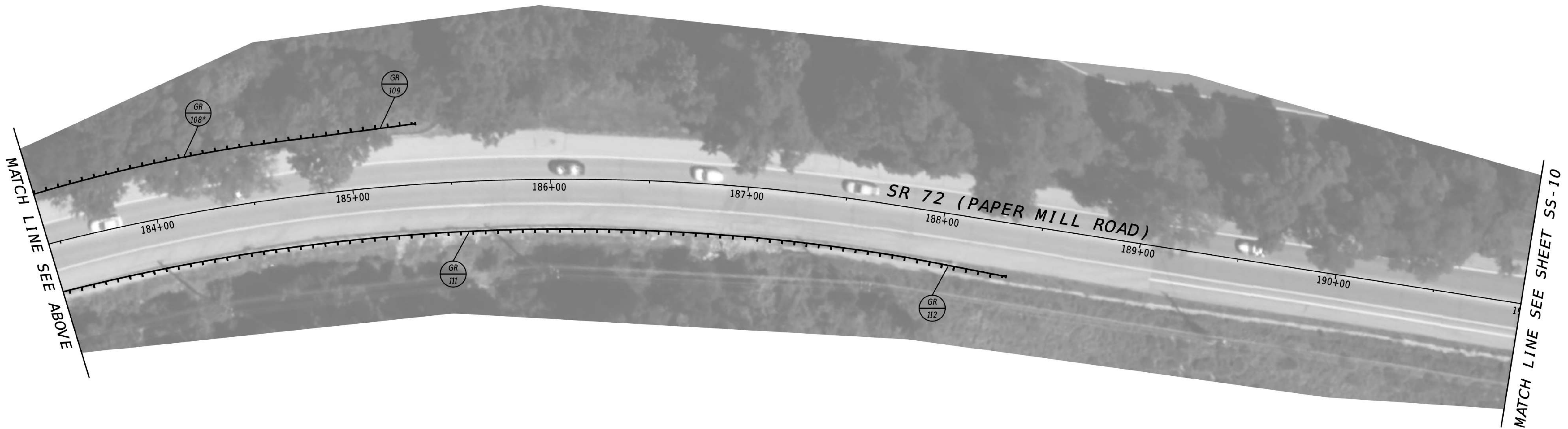
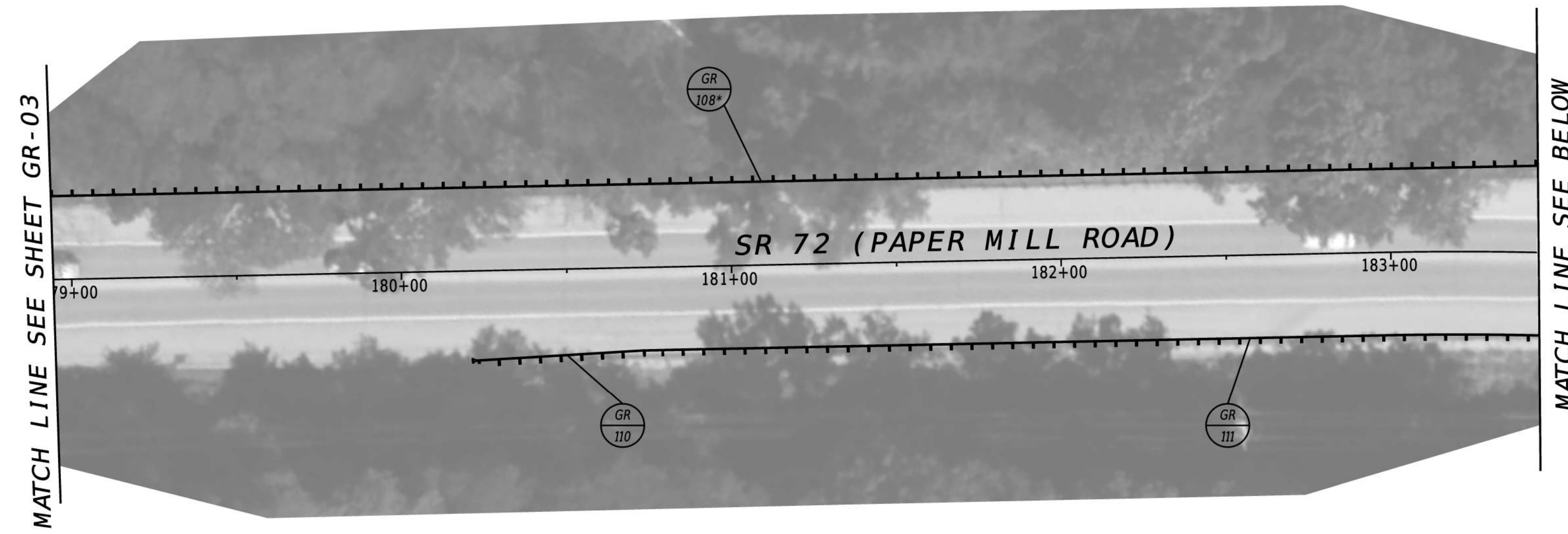
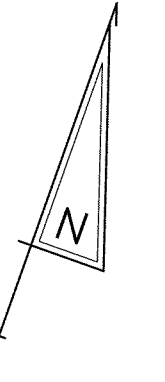
<b>GUARDRAIL PLANS</b>	
SECTION	GR-03
JMT	
SHEET NO.	16

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
108	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	176+38.46	-32.00	*
109	END TREATMENT, ATTENUATOR TYPE 1	184+83.60	-28.00	50.00
110	END TREATMENT, ATTENUATOR TYPE 1	180+20.92	25.00	50.00
111	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	180+72.69	25.00	700.00
112	END TREATMENT, ATTENUATOR TYPE 1	187+83.87	25.00	50.00

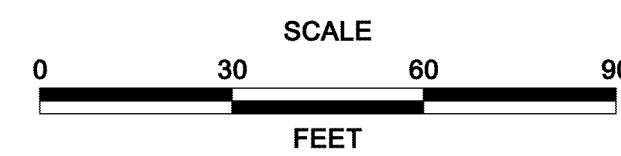
\*QUANTITY SHOWN ON SHEET GR-03

**NOTES**

- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
- SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.



ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PAPER MILL ROAD**

CONTRACT	ROAD NO.	<b>N013</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**GUARDRAIL PLANS**

GR-04

SECTION

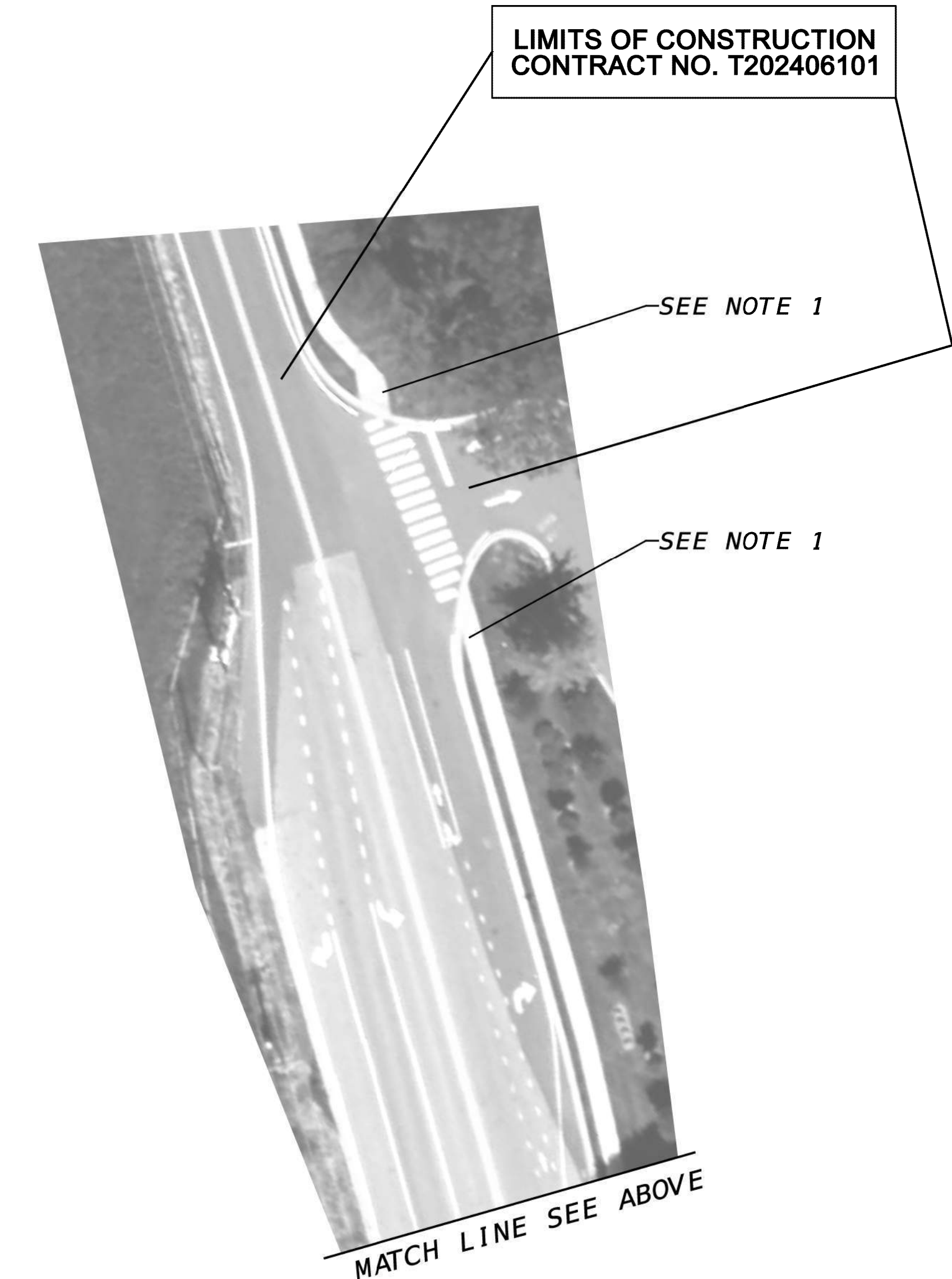
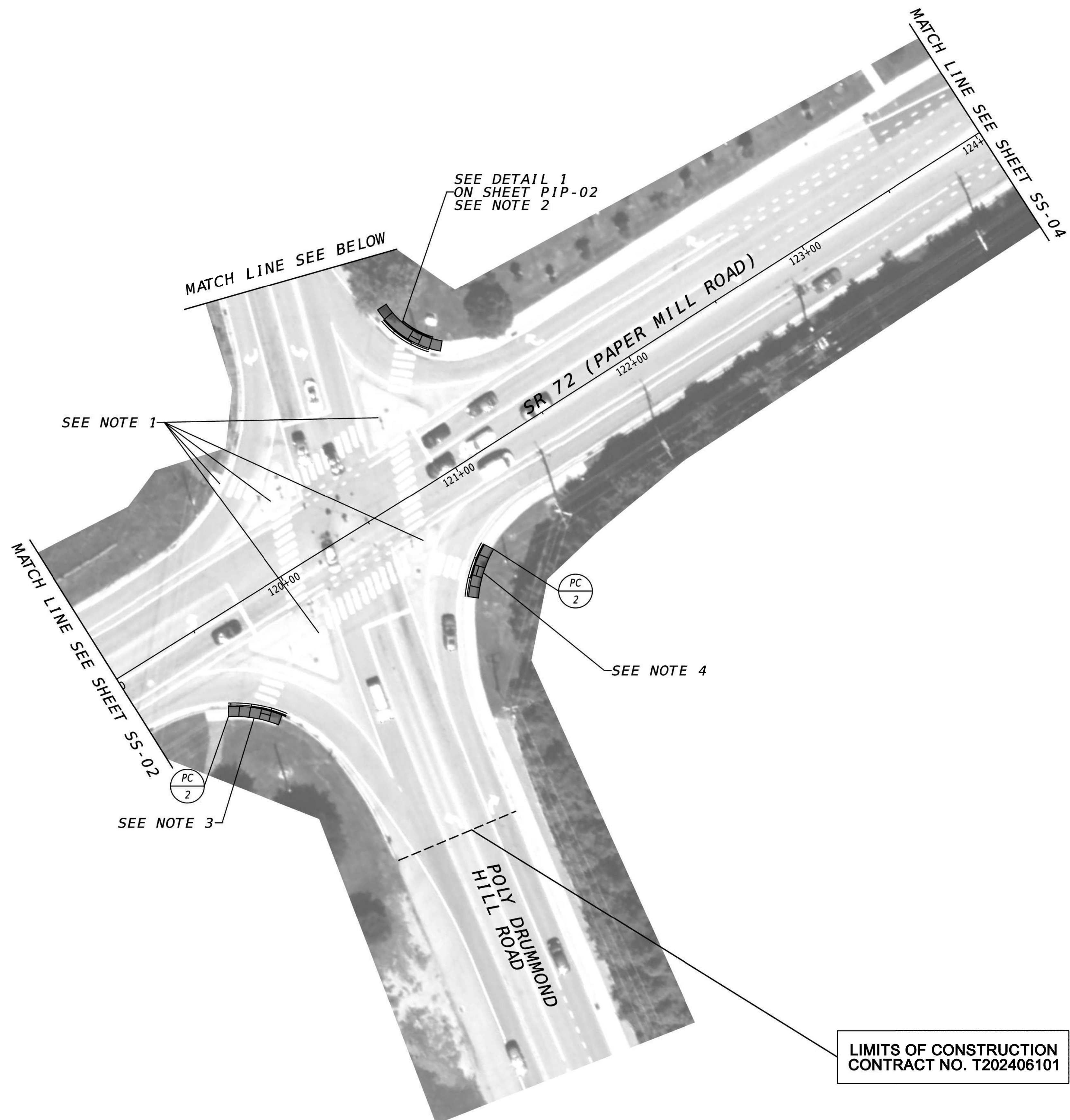
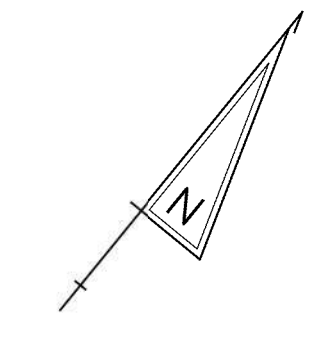
JMT

SHEET NO.

17

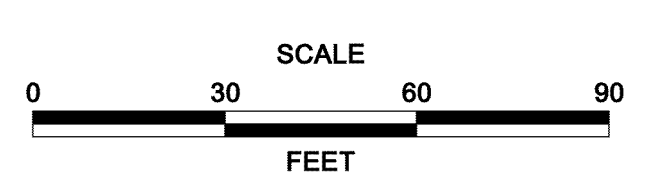
**NOTES**

1. THE PEDESTRIAN CONNECTION WAS FOUND TO BE COMPLIANT WITH THE PEDESTRIAN ACCESS STANDARDS.
2. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO RUNNING SLOPES (8.9%) WITHIN THE RAMP SEGMENT EXCEEDING THAN THE ALLOWABLE 8.3%. THE RAMP SEGMENT DOES NOT MEET THE CHASING GRADES CRITERIA.
3. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES WITHIN THE TURNING SPACE (4.3%) EXCEEDING 2% ALLOWABLE.
4. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO RUNNING SLOPES (8.7%) WITHIN THE RAMP SEGMENT EXCEEDING THE ALLOWABLE 8.3%. THE RAMP SEGMENT DOES NOT MEET THE CHASING GRADES CRITERIA.



7-AUG-2024 2:01:17 pm \\jmt-pw-bentley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\ADA Design\PR - Paper Mill Road.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PAPER MILL ROAD**

CONTRACT	ROAD NO.	<b>S013</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

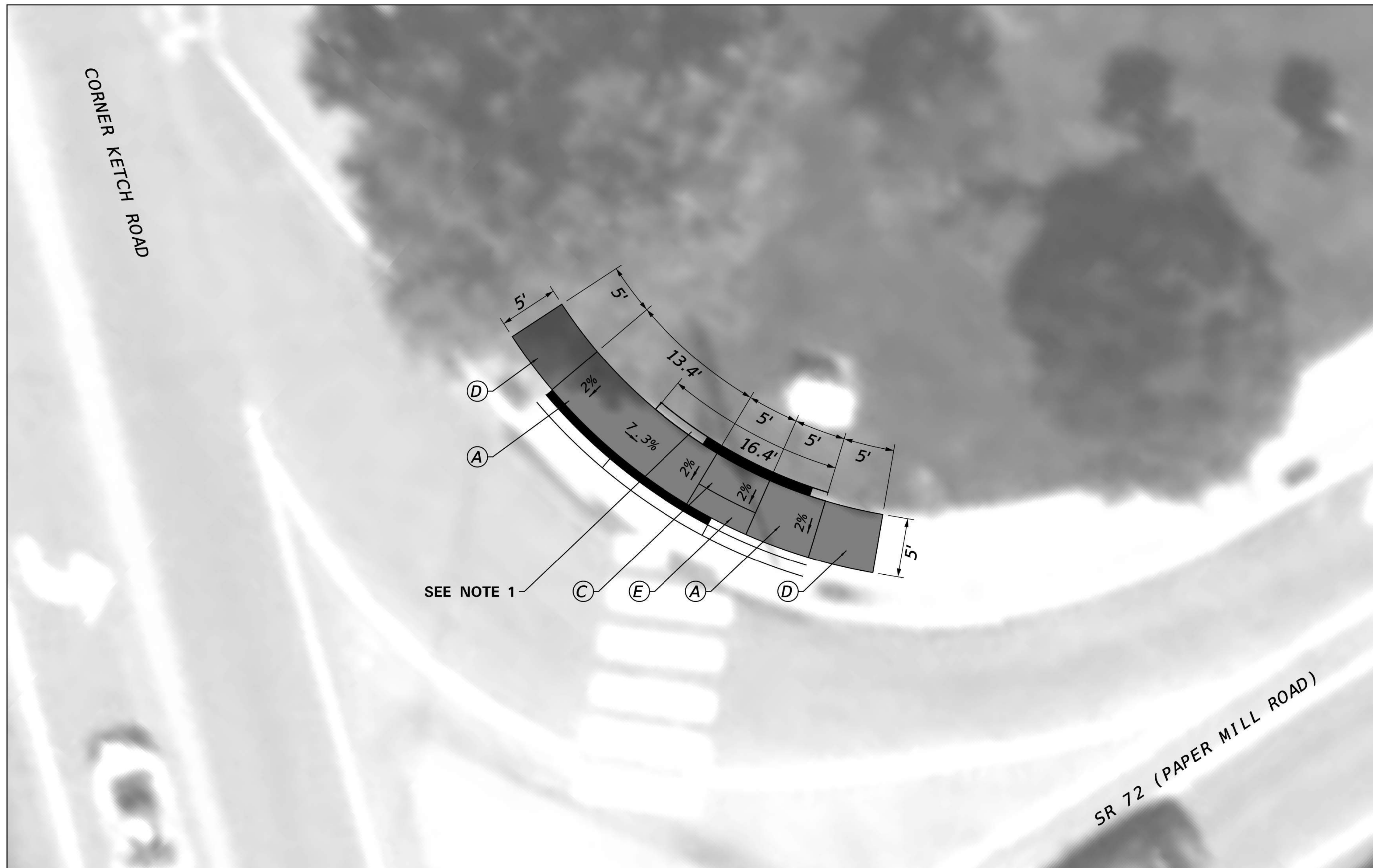
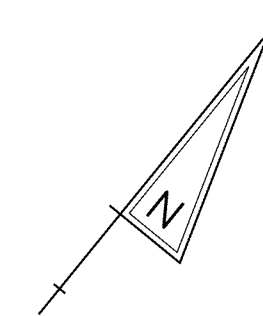
**PEDESTRIAN  
IMPROVEMENT  
PLAN**

<b>PIP-01</b>
SECTION
JMT
SHEET NO.
18

SYMBOL	ITEM
(A)	RAMP SEGMENT - RUNNING SLOPES MAY NOT EXCEED 8.3%
(C)	TURNING SPACE - CROSS SLOPES AND RUNNING SLOPES MUST NOT EXCEED 2%
(D)	TRANSITION SLAB
(E)	DETECTABLE WARNING SURFACE

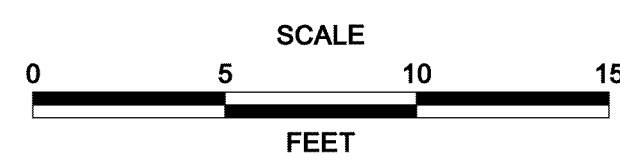
**NOTES**

1. PROPOSED RETAINING CURB SEE DELDOT STANDARD DETAIL C-6



**PEDESTRIAN CONNECTION DETAIL 1 – SR 72 (PAPER MILL ROAD) & CORNER KETCH ROAD  
SCALE 1"=5'**

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PAPER MILL ROAD**

CONTRACT	ROAD NO.	<b>S013</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**PEDESTRIAN  
IMPROVEMENT  
PLAN**

PIP-02

SECTION

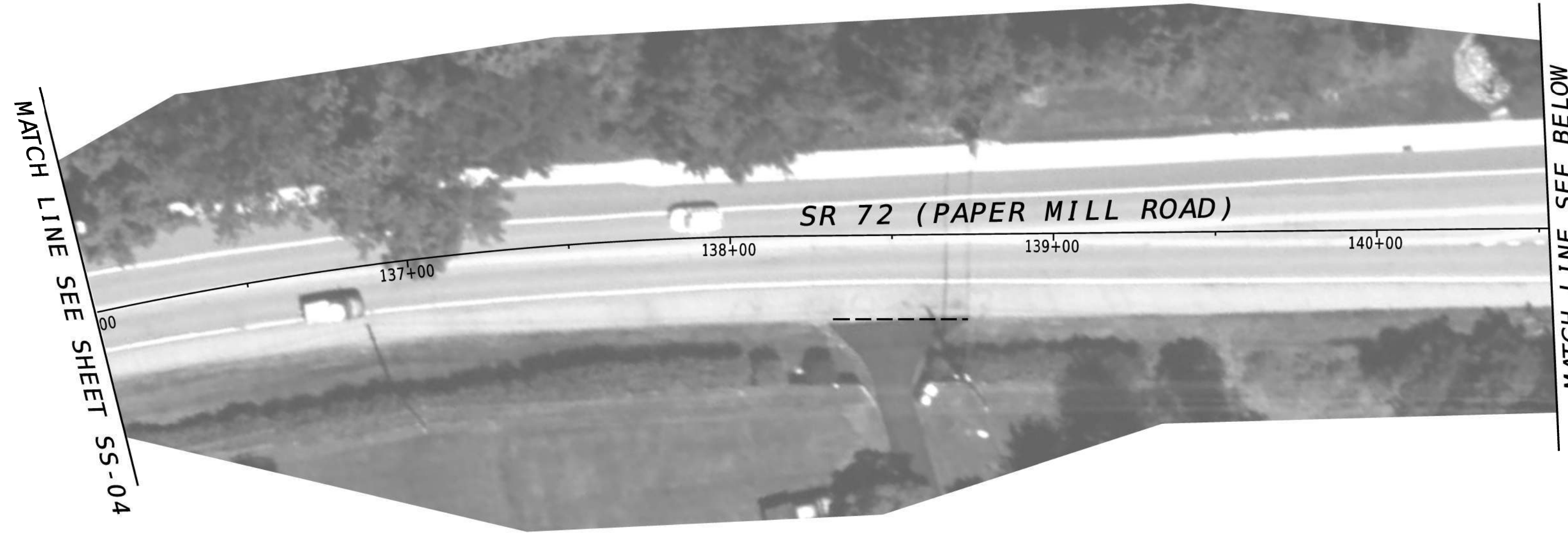
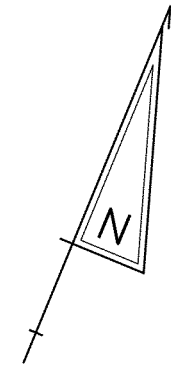
JMT

SHEET NO.

19

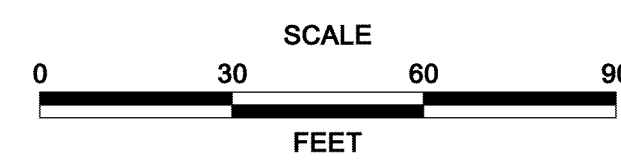
**NOTES**

1. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES (3.2%) WITHIN THE RAMP SEGMENT EXCEEDING THE ALLOWABLE 2%.



7-AUG-2024 20:19 pwl/jmt/pw.bentley.com:jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/ADA Design/PR - Paper Mill Road.dgn

ADDENDUMS / REVISIONS

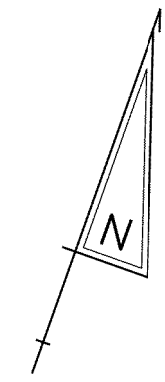


**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PAPER MILL ROAD**

CONTRACT	ROAD NO.	<b>S013</b>
T202406101	DESIGNED BY: M. TAPLIN	
COUNTY	CHECKED BY: B. DOUGHERTY	
NEW CASTLE		

**PEDESTRIAN  
IMPROVEMENT  
PLAN**

<b>PIP-03</b>
SECTION
JMT
SHEET NO.
20



**NOTES**

1. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO RUNNING SLOPES (3.3%) WITHIN THE TURNING SPACE EXCEEDING THE ALLOWABLE 2.0%.
2. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO SLOPE GREATER THAN 2% AND NO DWS PRESENT.

LIMITS OF CONSTRUCTION  
CONTRACT NO. T202406101

SEE DETAIL 2  
ON SHEET PIP-05  
SEE NOTE 1

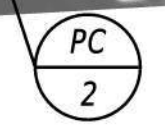
NORTH STAR ROAD

SR 72 (PAPER MILL ROAD)

MATCH LINE SEE SHEET PIP-03

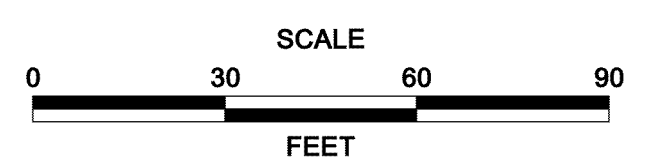
MATCH LINE SEE SHEET PIP-06

SEE NOTE 2



LIMITS OF CONSTRUCTION  
CONTRACT NO. T202406101

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PAPER MILL ROAD**

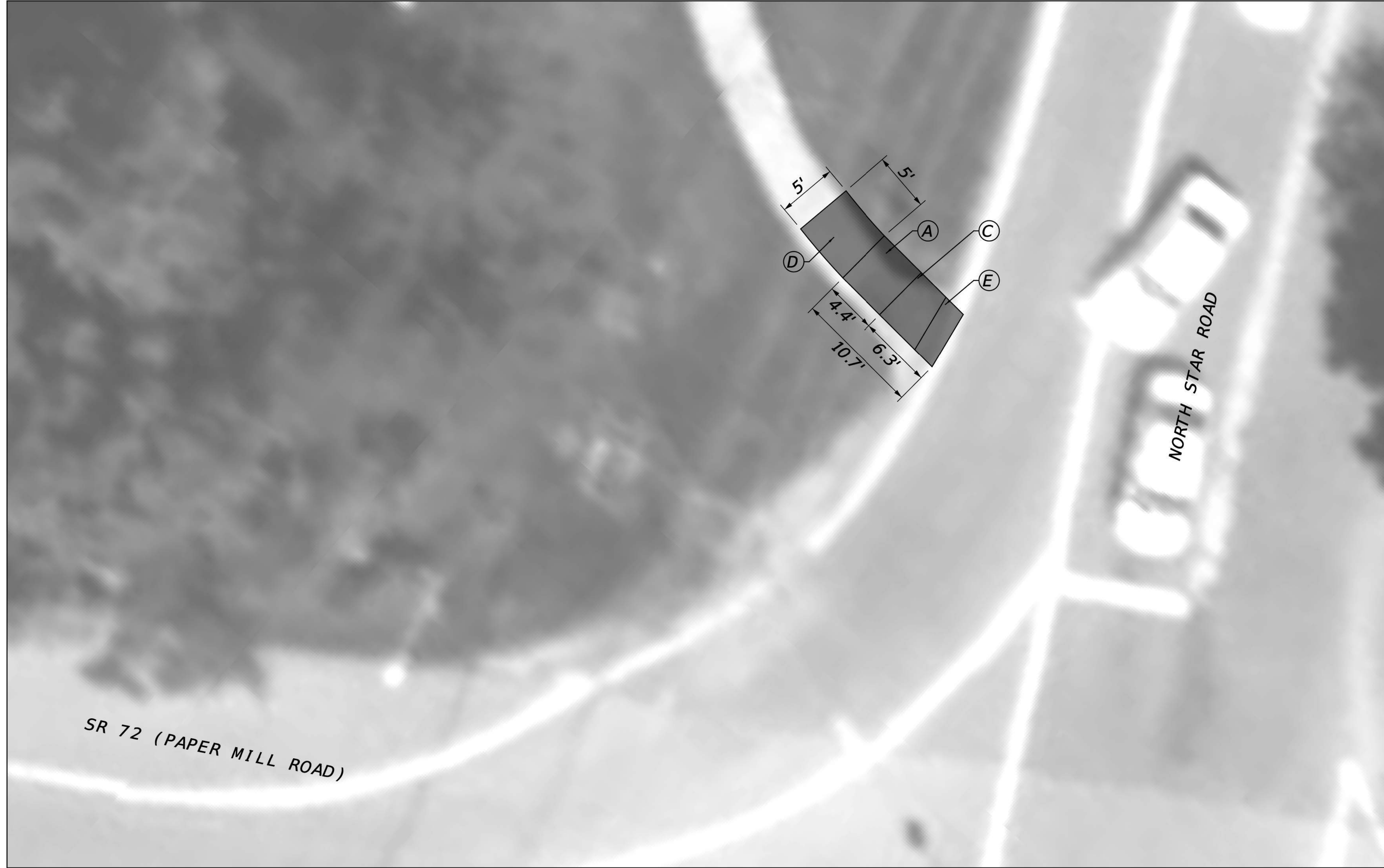
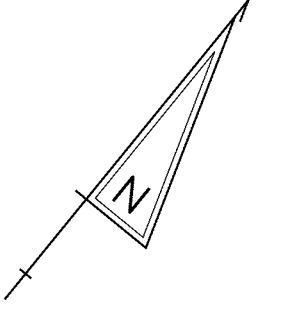
CONTRACT	ROAD NO.	<b>S013</b>
T202406101	DESIGNED BY: M. TAPLIN	
COUNTY	CHECKED BY: B. DOUGHERTY	
NEW CASTLE		

**PEDESTRIAN  
IMPROVEMENT  
PLAN**

<b>PIP-04</b>
SECTION
JMT
SHEET NO.
21

7-AUG-2024 2:02:31 pm \\jmt-pw-bentley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\ADA Design\PR - Paper Mill Road.dgn

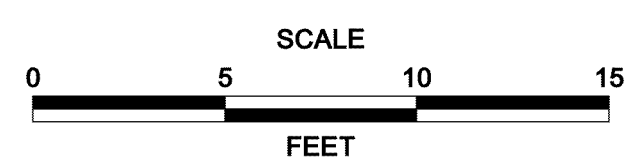
SYMBOL	ITEM
(A)	RAMP SEGMENT - RUNNING SLOPES MAY NOT EXCEED 8.3%
(B)	BLENDED TRANSITION - RUNNING SLOPES MAY NOT EXCEED 5%
(C)	TURNING SPACE - CROSS SLOPES AND RUNNING SLOPES MUST NOT EXCEED 2%
(D)	TRANSITION SLAB
(E)	DETECTABLE WARNING SURFACE



PEDESTRIAN CONNECTION DETAIL 2 - SR 72 (PAPER MILL ROAD) & NORTH STAR ROAD  
SCALE 1"=5'

7-AUG-2024 2:02:22 pm \\jmt-pw-bentley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\ADA Design\PR - Paper Mill Road.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PAPER MILL ROAD**

CONTRACT	ROAD NO.	<b>S013</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

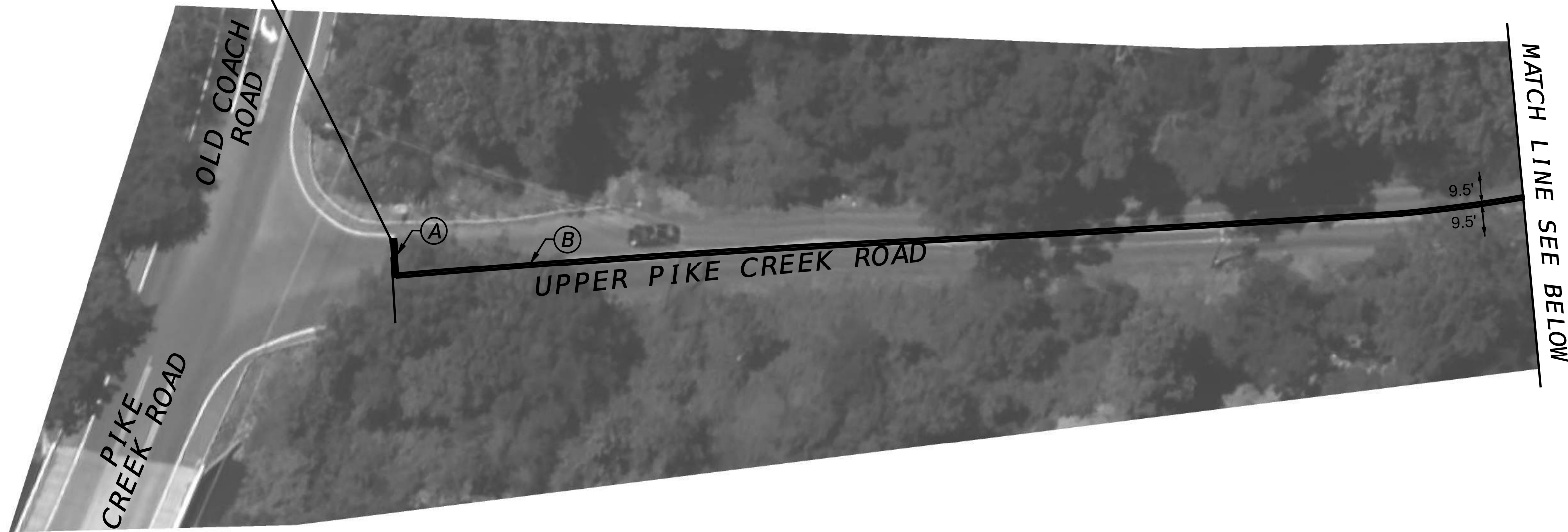
**PEDESTRIAN  
IMPROVEMENT  
PLAN**

PIP-05
SECTION
JMT
SHEET NO.
22





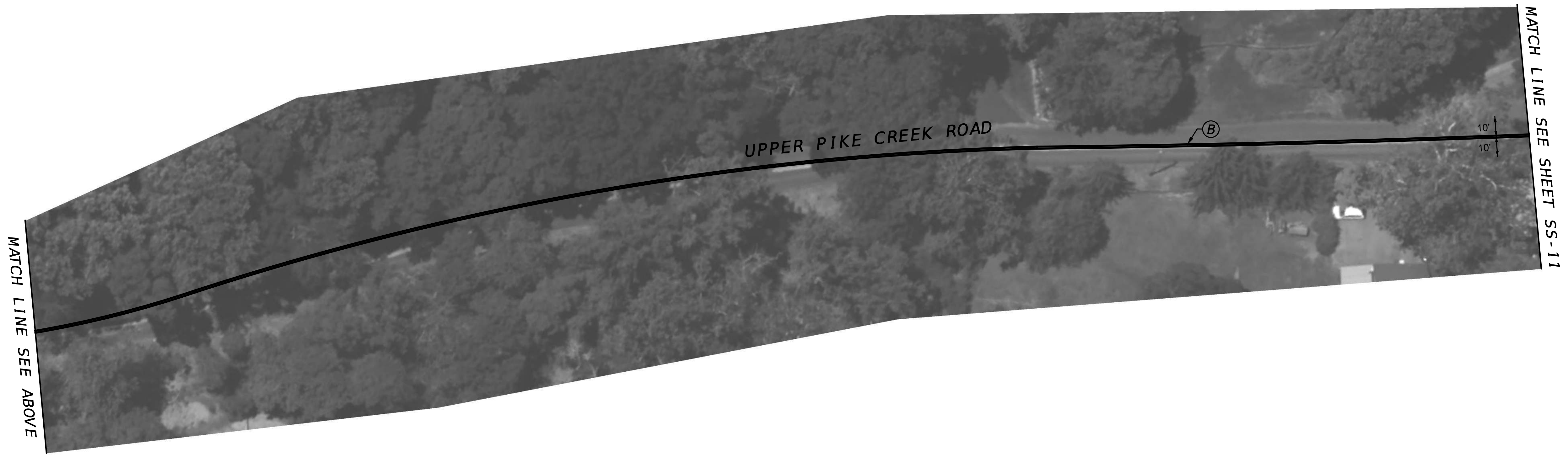
LIMITS OF CONSTRUCTION  
 CONTRACT NO. T202406101  
 MATCH EXISTING STRIPING



PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
(A)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	17 SF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,440 LF

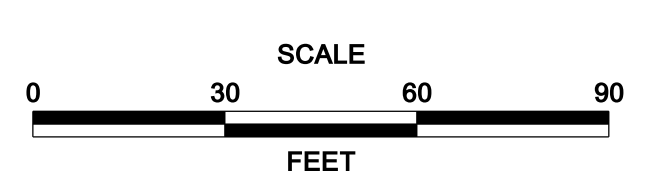
NOTES:

- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:33:52 AM c:\pwworking\jmt\jmt\jmt.com\094812255 - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS

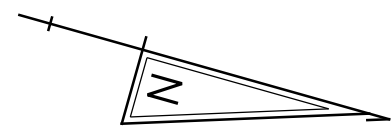


**PAVEMENT & REHABILITATION  
 NORTH I, 2024  
 UPPER PIKE CREEK ROAD**

CONTRACT T202406101	ROAD NO. N295
COUNTY NEW CASTLE	DESIGNED BY: R. KUSY / J. CLEM
	CHECKED BY: M. WAHED

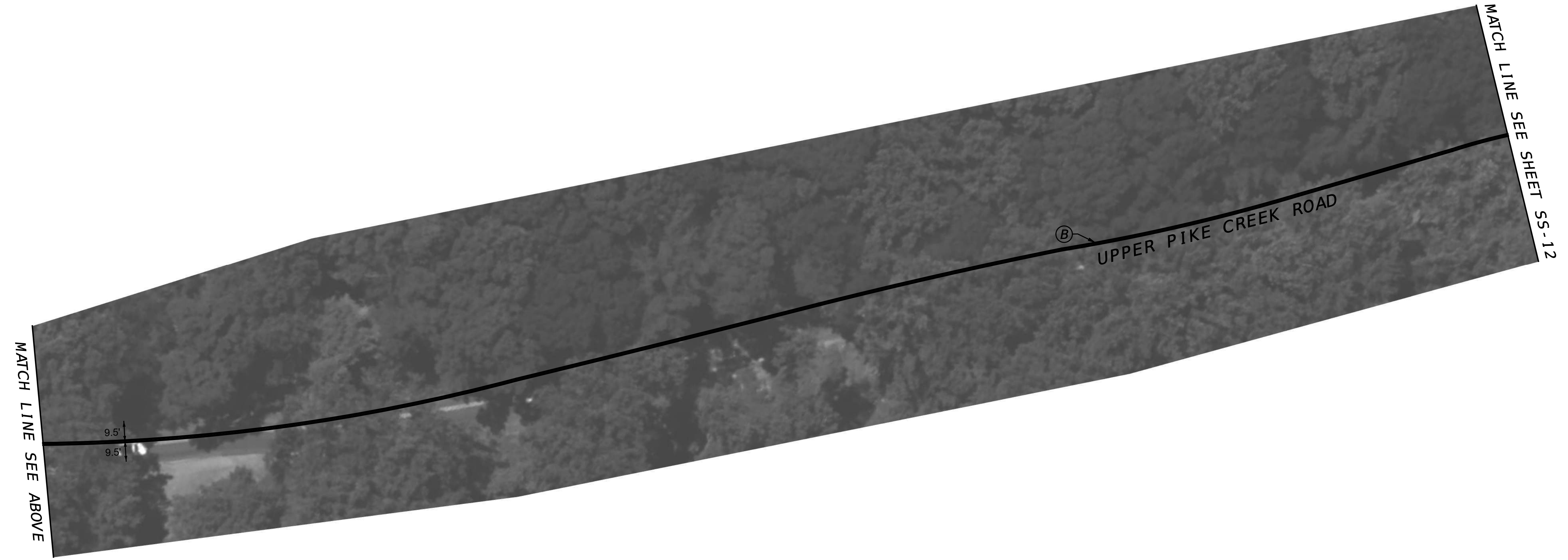
**SIGNING AND STRIPING PLAN**

SS-10
SECTION JMT
SHEET NO. 24



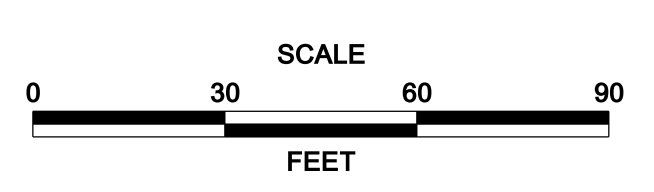
PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
Ⓟ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,640 LF

- NOTES:
- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:35:43 AM c:\pwworking\jmt\jmt.com\00948122\SS - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION  
 NORTH I, 2024  
 UPPER PIKE CREEK ROAD**

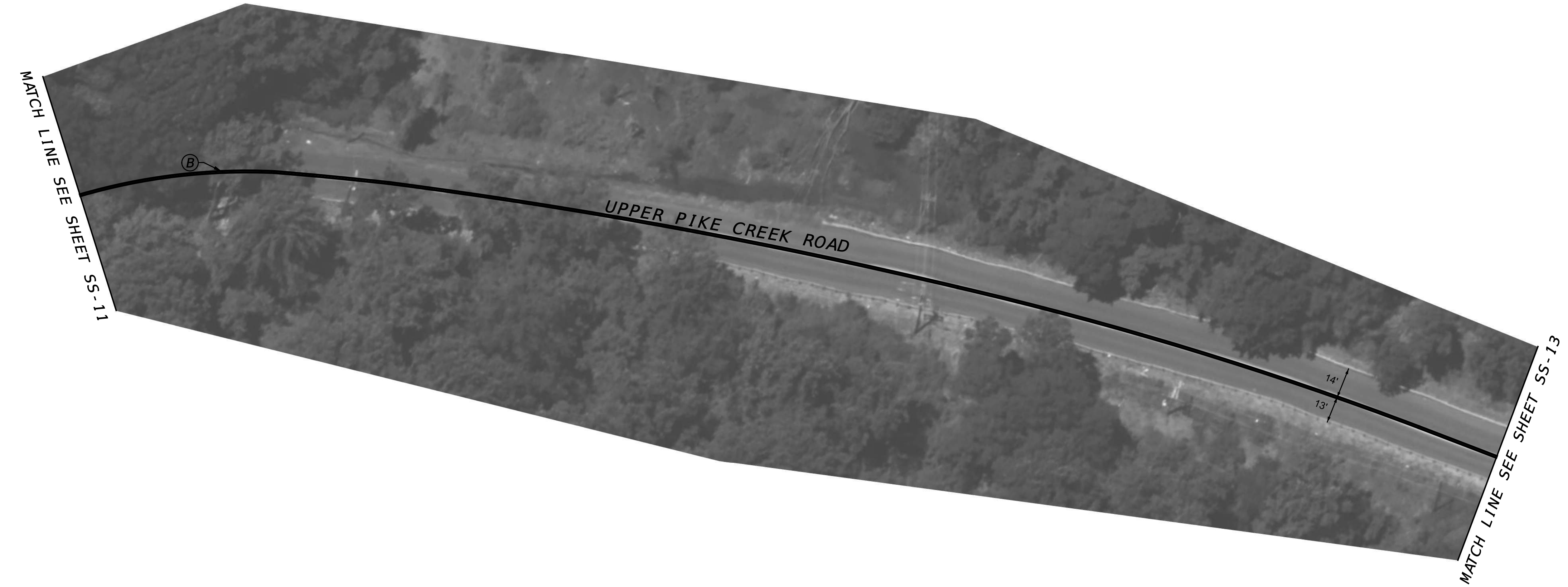
CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY: R. KUSY / J. CLEM	
COUNTY	CHECKED BY: M. WAHED	
NEW CASTLE		

<b>SIGNING AND          STRIPING PLAN</b>	SECTION	SS-11
	SHEET NO.	25



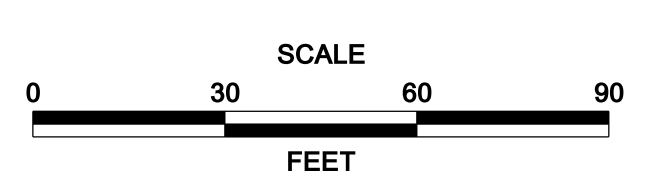
PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	1,610 LF

- NOTES:
- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:37:27 AM c:\pwworking\jmt\jmt.com\00948122\SS - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS

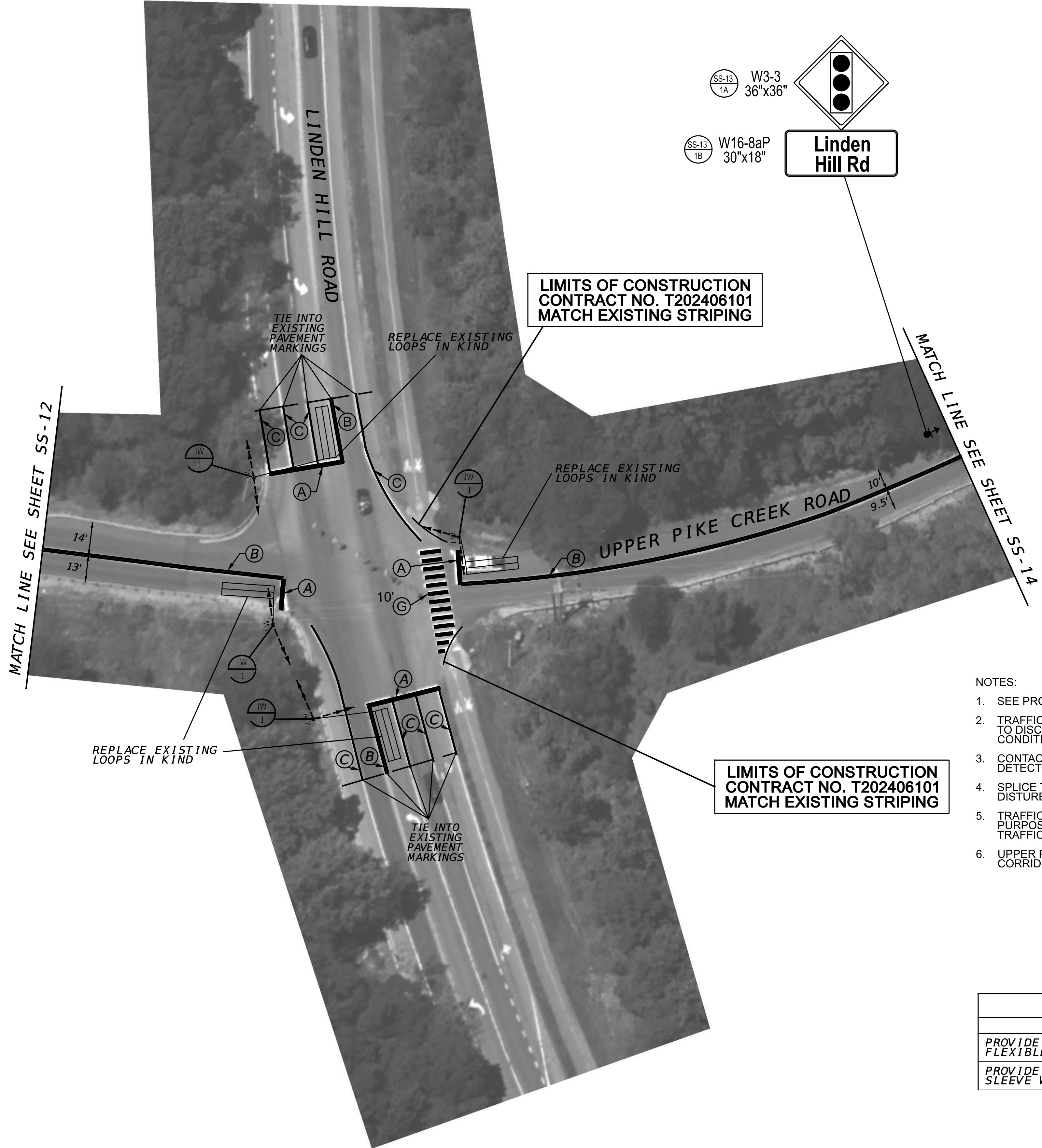


**PAVEMENT & REHABILITATION  
 NORTH I, 2024  
 UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY: R. KUSY / J. CLEM	
COUNTY	CHECKED BY: M. WAHED	
NEW CASTLE		

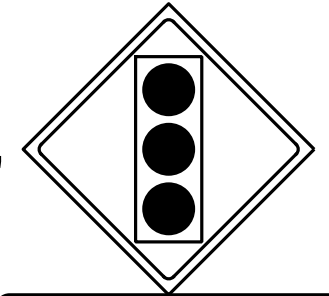
**SIGNING AND  
 STRIPING PLAN**

SS-12
SECTION
JMT
SHEET NO.
26



SS-13  
1A W3-3  
36"x36"

SS-13  
1B W16-8aP  
30"x18"



Linden Hill Rd

PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	148 SF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	790 LF
(C)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	380 LF
(G)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	286 SF

LIMITS OF CONSTRUCTION  
CONTRACT NO. T202406101  
MATCH EXISTING STRIPING

LIMITS OF CONSTRUCTION  
CONTRACT NO. T202406101  
MATCH EXISTING STRIPING

NOTES:

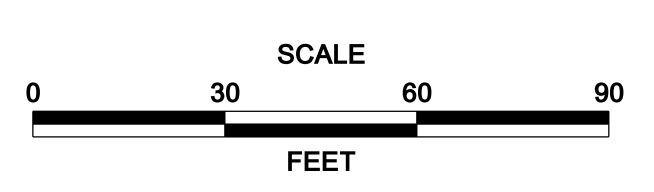
- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
- TRAFFIC CONTRACTOR TO INSTALL TEMPORARY DETECTION PER TEMPORARY SIGNAL PLAN PRIOR TO DISCONNECTING LOOPS. TEMPORARY WAVE TRONIX DETECTION TO REMAIN DEACTIVATED IN ULTIMATE CONDITION AFTER ULTIMATE LOOP DETECTORS ARE OPERATIONAL.
- CONTACT DELDOT TMC 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS AT 302-659-4600.
- SPLICE TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
- TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPLICING TRAFFIC SIGNAL DETECTION LOOPS.
- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.

SIGNAL LEGEND	
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

SIGNAL LOOP QUANTITIES	
DESCRIPTION	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	450 LF
PROVIDE & INSTALL A 1.5 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	30 LF

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ADDENDUMS / REVISIONS



PAVEMENT & REHABILITATION  
NORTH I, 2024  
UPPER PIKE CREEK ROAD

CONTRACT	T202406101	ROAD NO.	N295
COUNTY	NEW CASTLE	DESIGNED BY:	R. KUSY / J. CLEM
		CHECKED BY:	M. WAHED

<b>SIGNING AND STRIPING PLAN</b>	SECTION	JMT
	SHEET NO.	27

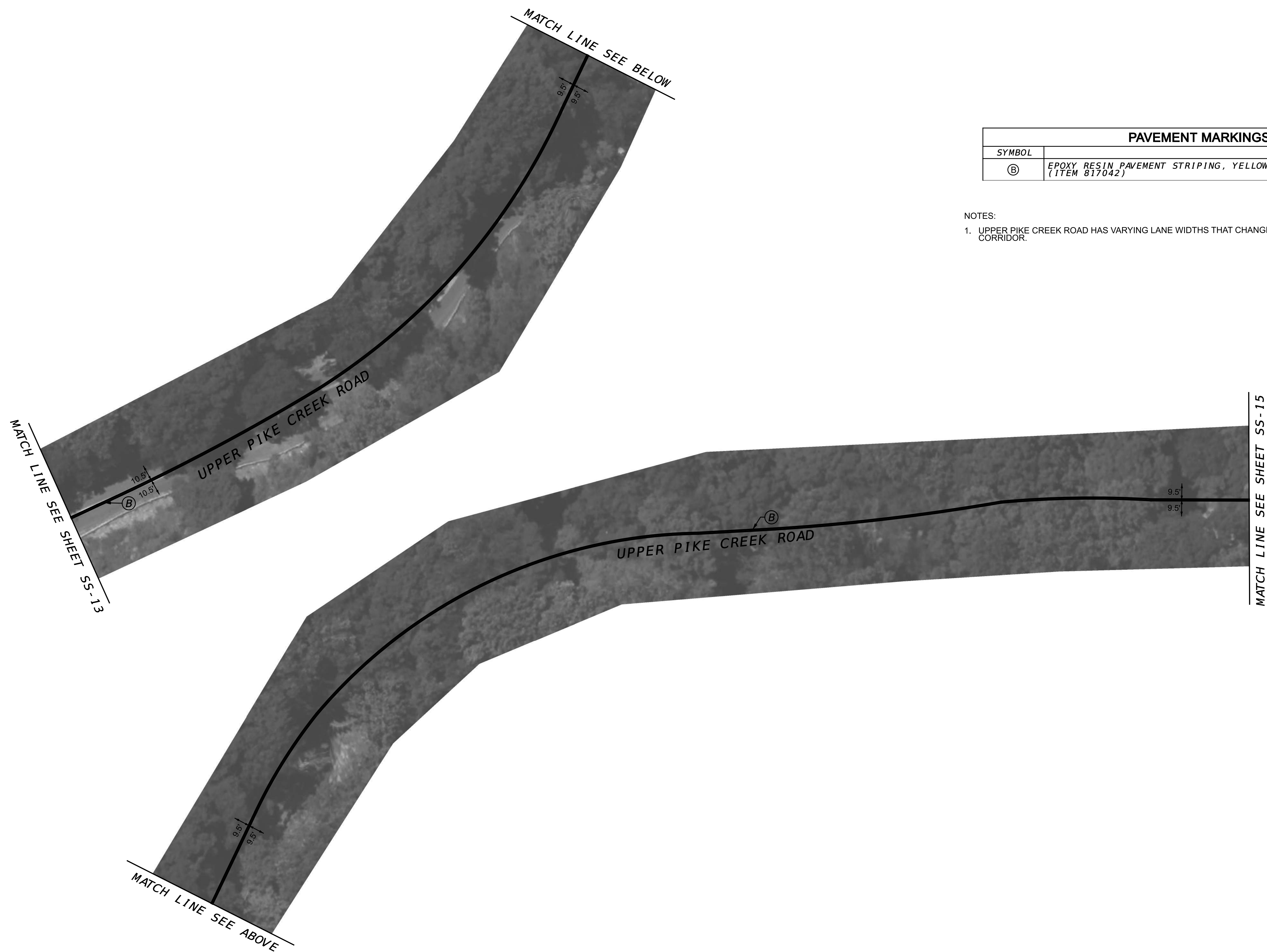
SS-13



PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,640 LF

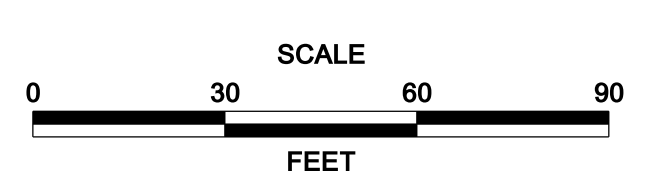
NOTES:

- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:30:51 AM  
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ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY: R. KUSY / J. CLEM	
COUNTY	CHECKED BY: M. WAHED	
NEW CASTLE		

**SIGNING AND STRIPING PLAN**

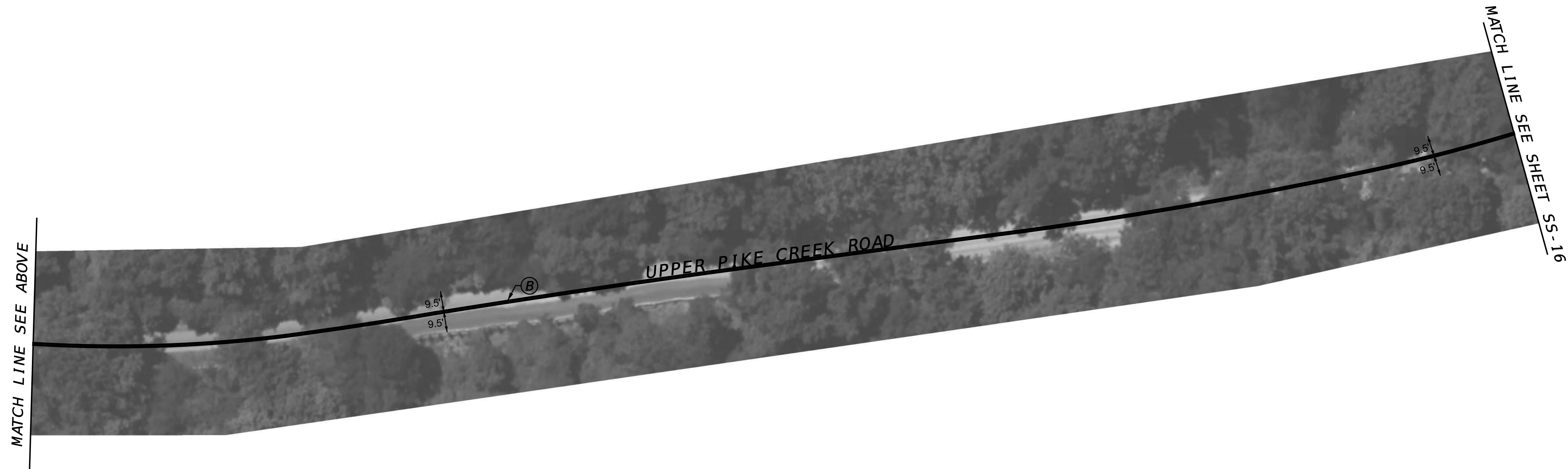
SS-14
SECTION
JMT
SHEET NO.
28



PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,610 LF

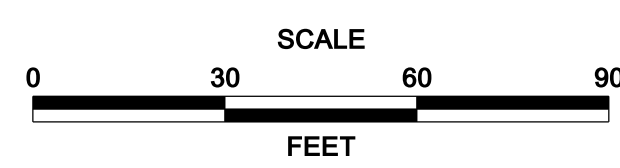
NOTES:

- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:41:26 AM c:\pwworking\jmt\jmt.com\00948122\SS - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS	

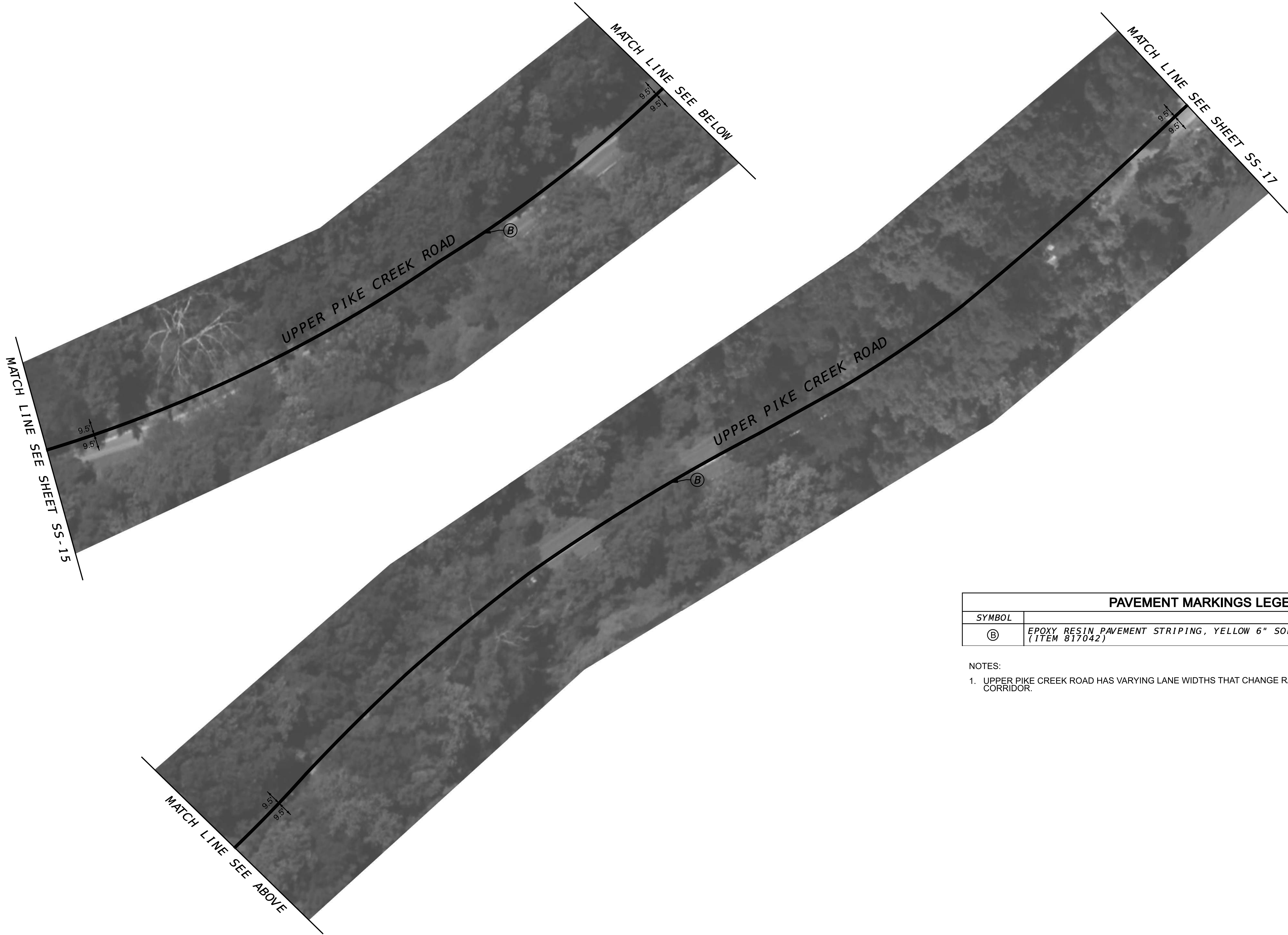


**PAVEMENT & REHABILITATION  
 NORTH I, 2024  
 UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY: R. KUSY / J. CLEM	
COUNTY	CHECKED BY: M. WAHED	
NEW CASTLE		

**SIGNING AND  
 STRIPING PLAN**

SS-15
SECTION
JMT
SHEET NO.
29

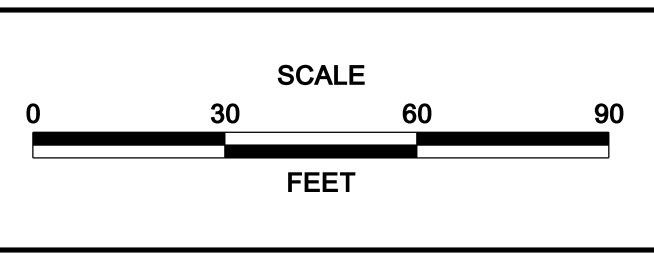


PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,740 LF

- NOTES:
- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.

8/8/2024 9:42:50 AM  
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ADDENDUMS / REVISIONS

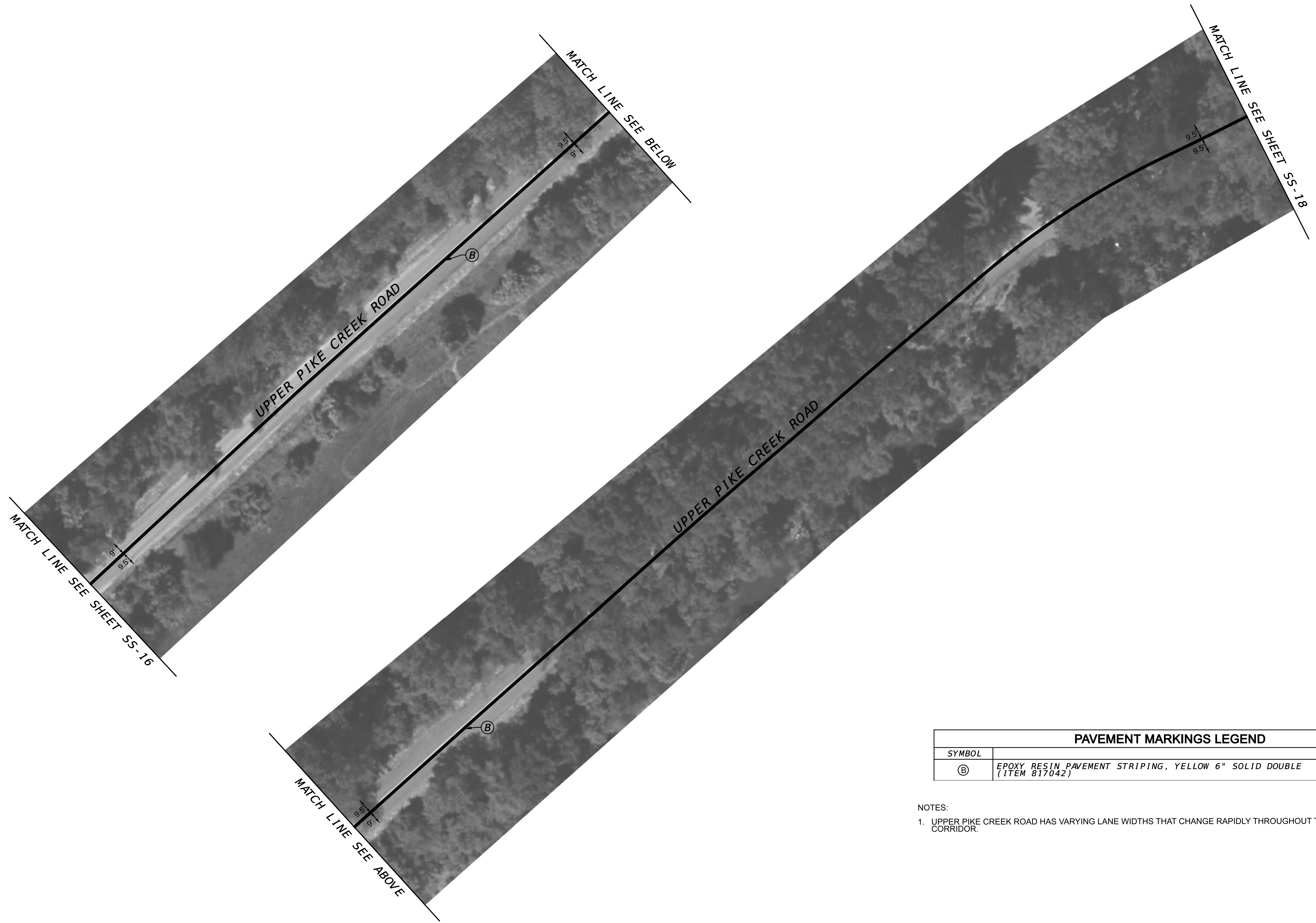
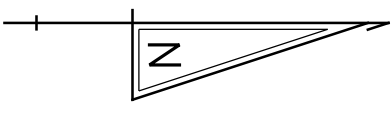


**PAVEMENT & REHABILITATION  
NORTH I, 2024  
UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

**SIGNING AND STRIPING PLAN**

SS-16
SECTION
JMT
SHEET NO.
30

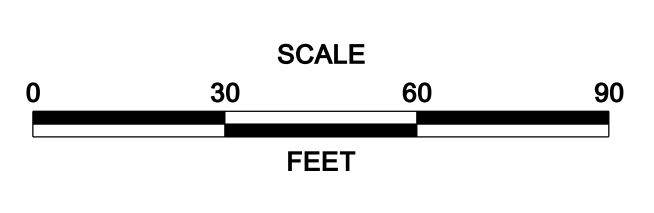


PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,625 LF

- NOTES:
- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.

8/8/2024 9:44:26 AM c:\pwworking\jmt\jmt.com\0948122\SS - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
 NORTH I, 2024  
 UPPER PIKE CREEK ROAD**

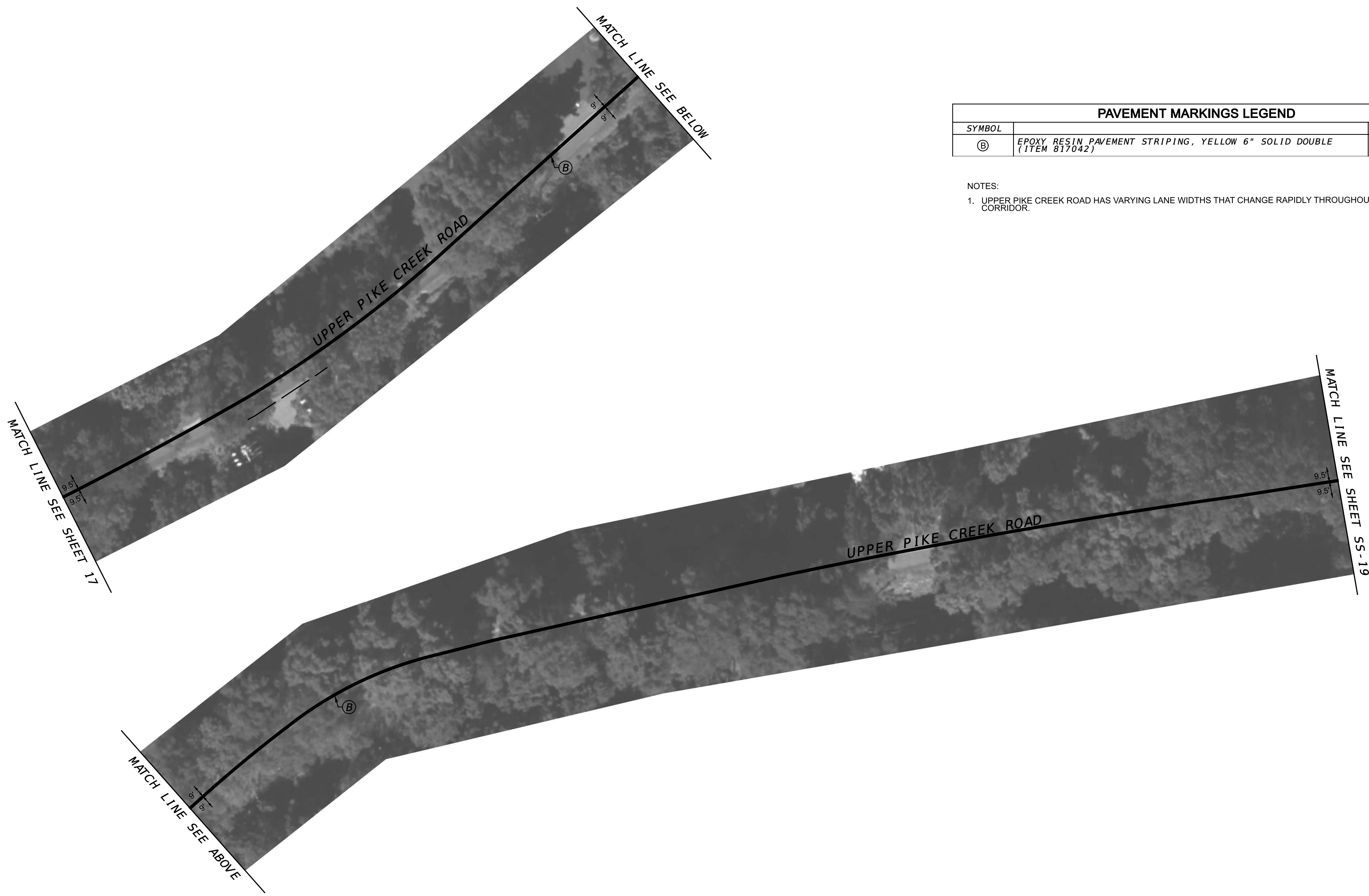
CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

<b>SIGNING AND          STRIPING PLAN</b>	SECTION	SS-17
	SHEET NO.	31



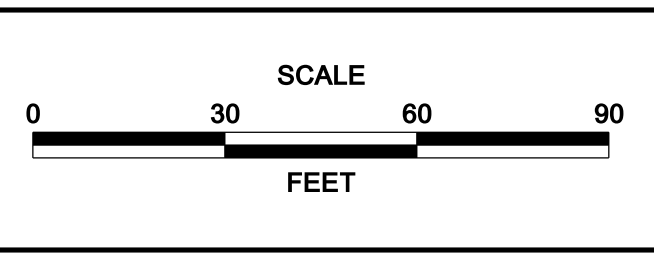
PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,655 LF

NOTES:  
 1. UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:45:50 AM c:\pwworking\jmt\jmt.com\00948122\SS - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
 NORTH I, 2024  
 UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY: R. KUSY / J. CLEM	
COUNTY	CHECKED BY: M. WAHED	
NEW CASTLE		

**SIGNING AND  
 STRIPING PLAN**

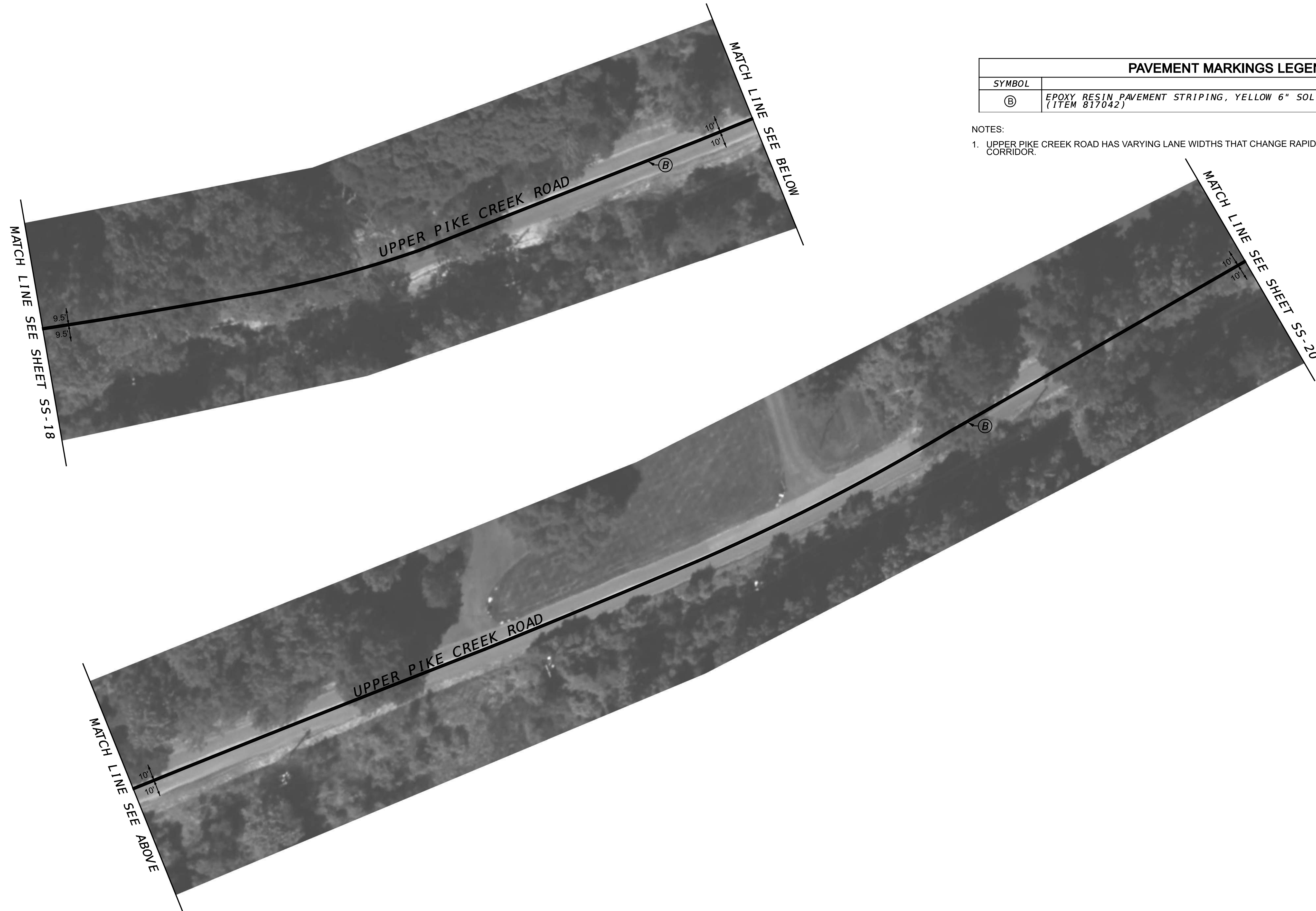
SS-18
SECTION
JMT
SHEET NO.
32



PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,645 LF

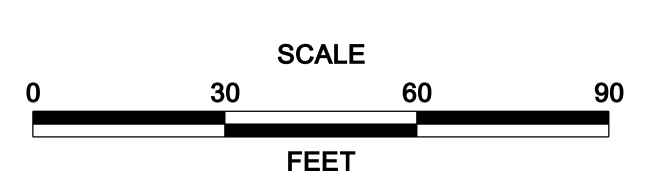
NOTES:

- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:47:10 AM c:\pwworking\jmt\clem\jmt.com\00948122\SS - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS

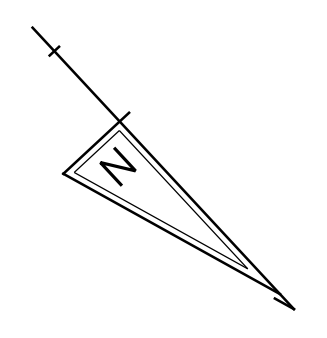


**PAVEMENT & REHABILITATION**  
**NORTH I, 2024**  
**UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

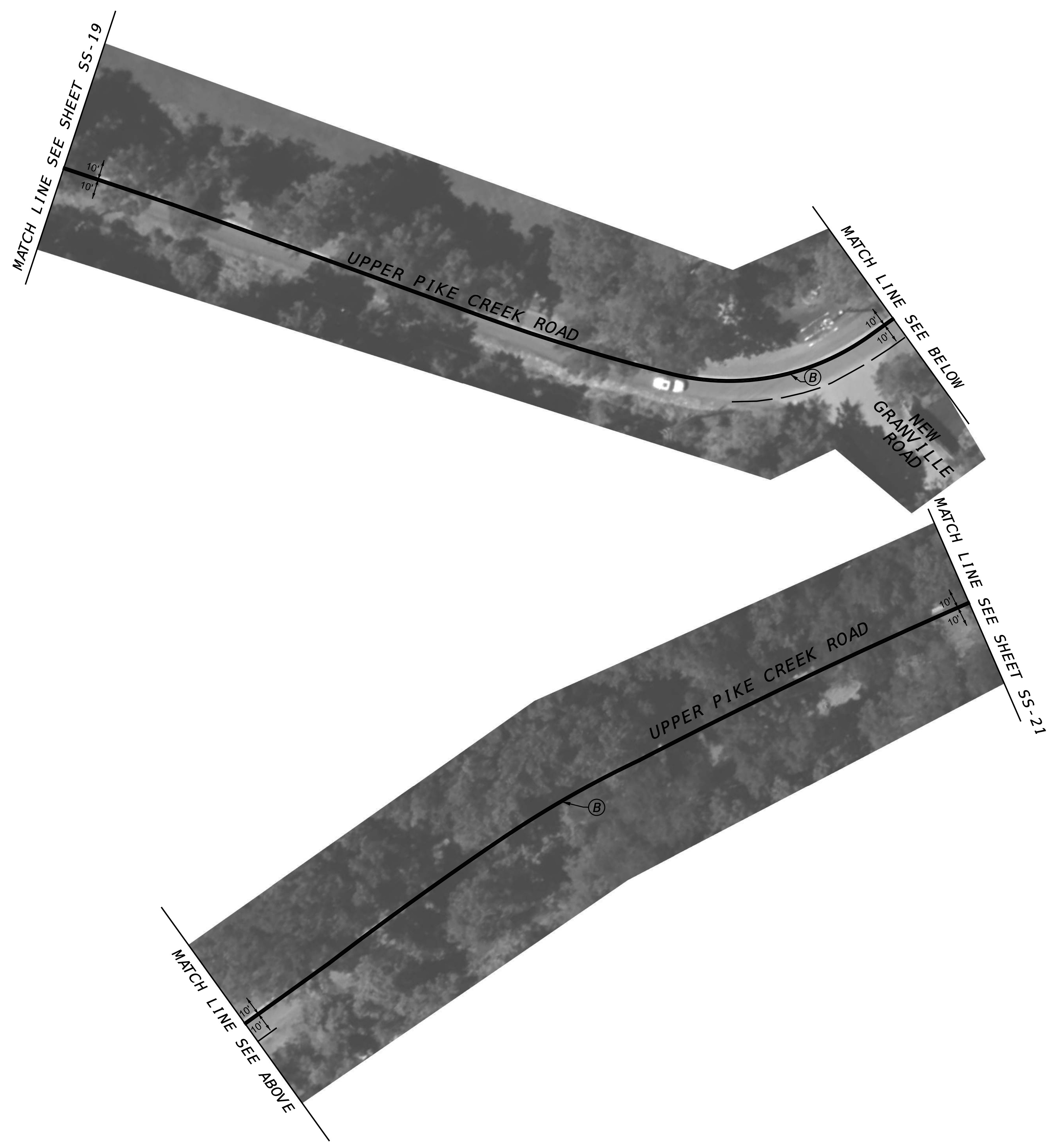
**SIGNING AND STRIPING PLAN**

SS-19
SECTION
JMT
SHEET NO.
33



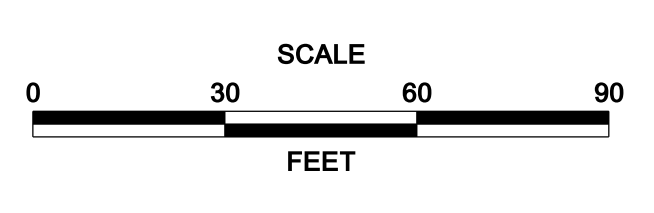
PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
Ⓟ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	1,925 LF

NOTES:  
 1. UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:48:35 AM c:\pwworking\jmt\jmt.com\00948122\SS - Upper Pike Creek Rd\_North Star Rd.dgn

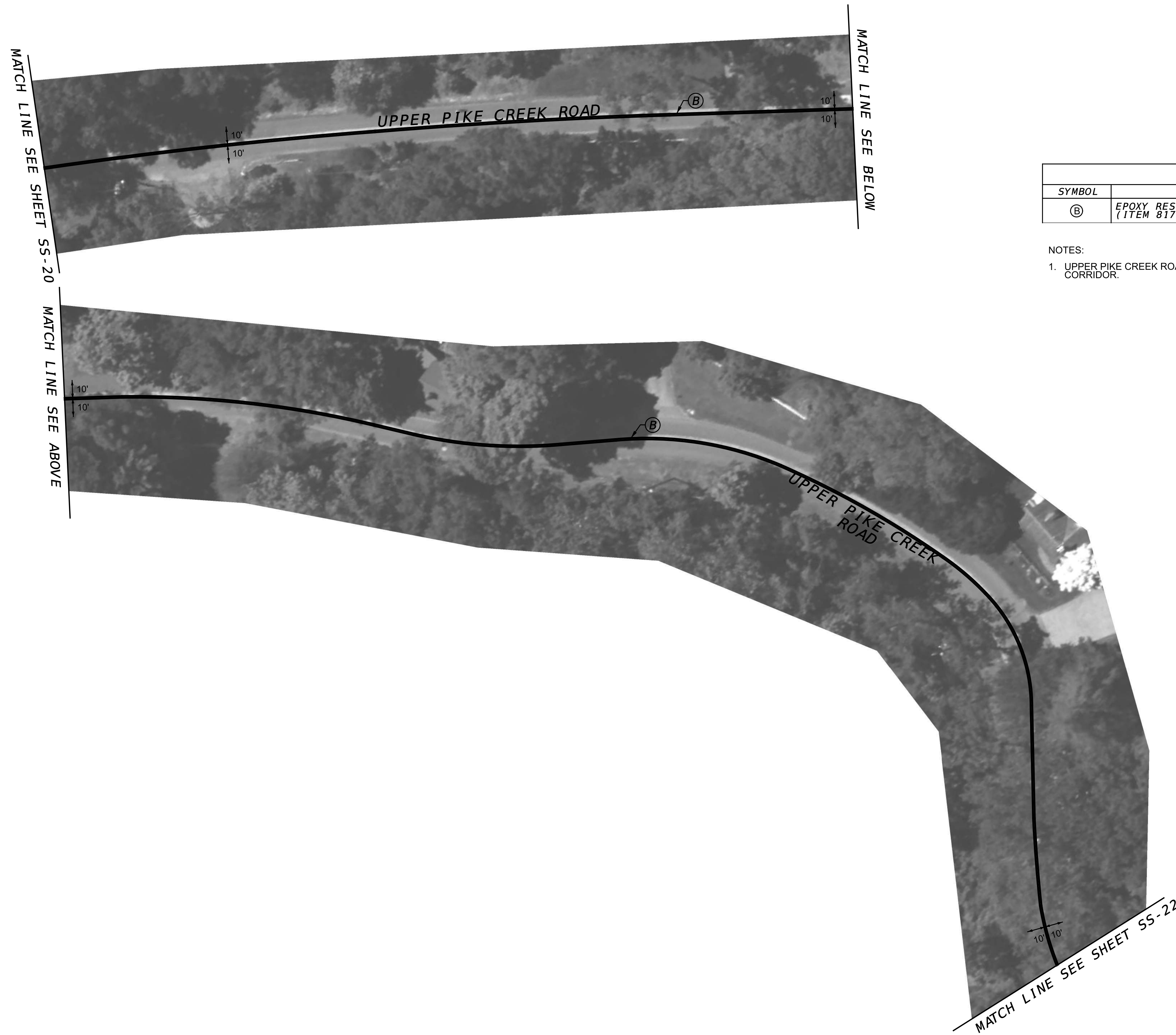
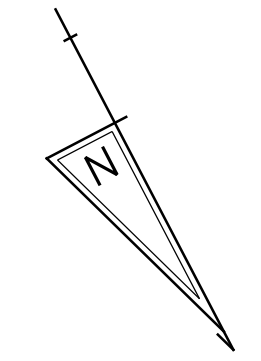
ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION  
 NORTH I, 2024  
 UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY: R. KUSY / J. CLEM	
COUNTY	CHECKED BY: M. WAHED	
NEW CASTLE		

<b>SIGNING AND          STRIPING PLAN</b>	SECTION	SS-20
	SHEET NO.	34

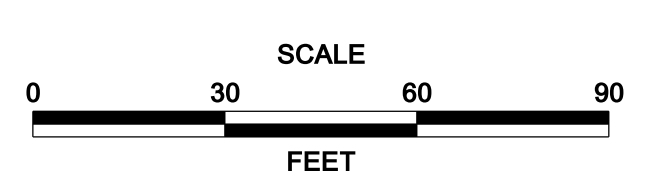


PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,750 LF

- NOTES:
- UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.

8/8/2024 9:49:50 AM c:\pwworking\jmt\jmt\jmt.com\00948122\SS - Upper Pike Creek Rd\_North Star Rd.dgn

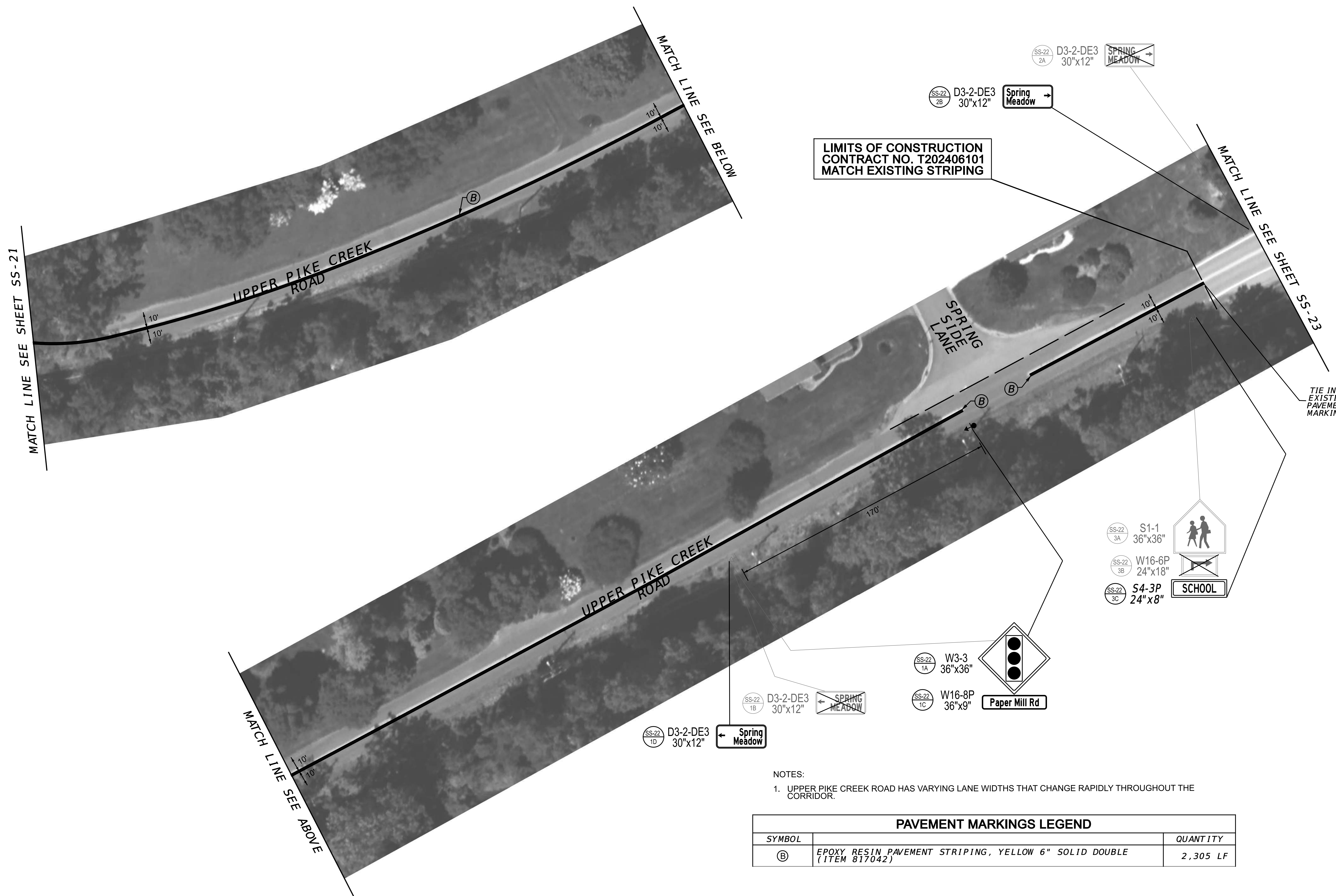
ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION  
 NORTH I, 2024  
 UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

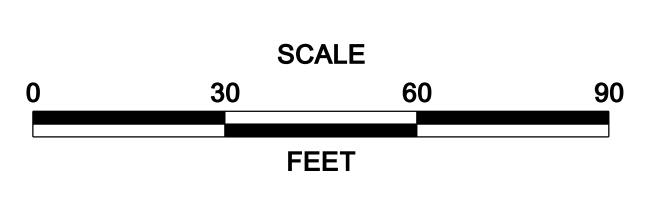
<b>SIGNING AND          STRIPING PLAN</b>	SECTION	SS-21
	JMT	
	SHEET NO.	35



LIMITS OF CONSTRUCTION  
 CONTRACT NO. T202406101  
 MATCH EXISTING STRIPING

- NOTES:  
 1. UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.

PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,305 LF



**PAVEMENT & REHABILITATION  
 NORTH I, 2024  
 UPPER PIKE CREEK ROAD**

CONTRACT	T202406101	ROAD NO.	N295
COUNTY	NEW CASTLE	DESIGNED BY:	R. KUSY / J. CLEM
		CHECKED BY:	M. WAHED

**SIGNING AND STRIPING PLAN**

8/8/2024 9:51:02 AM c:\pwworking\jmt\jmt.com\00948122\SS - Upper Pike Creek Rd\_North Star Rd.dgn

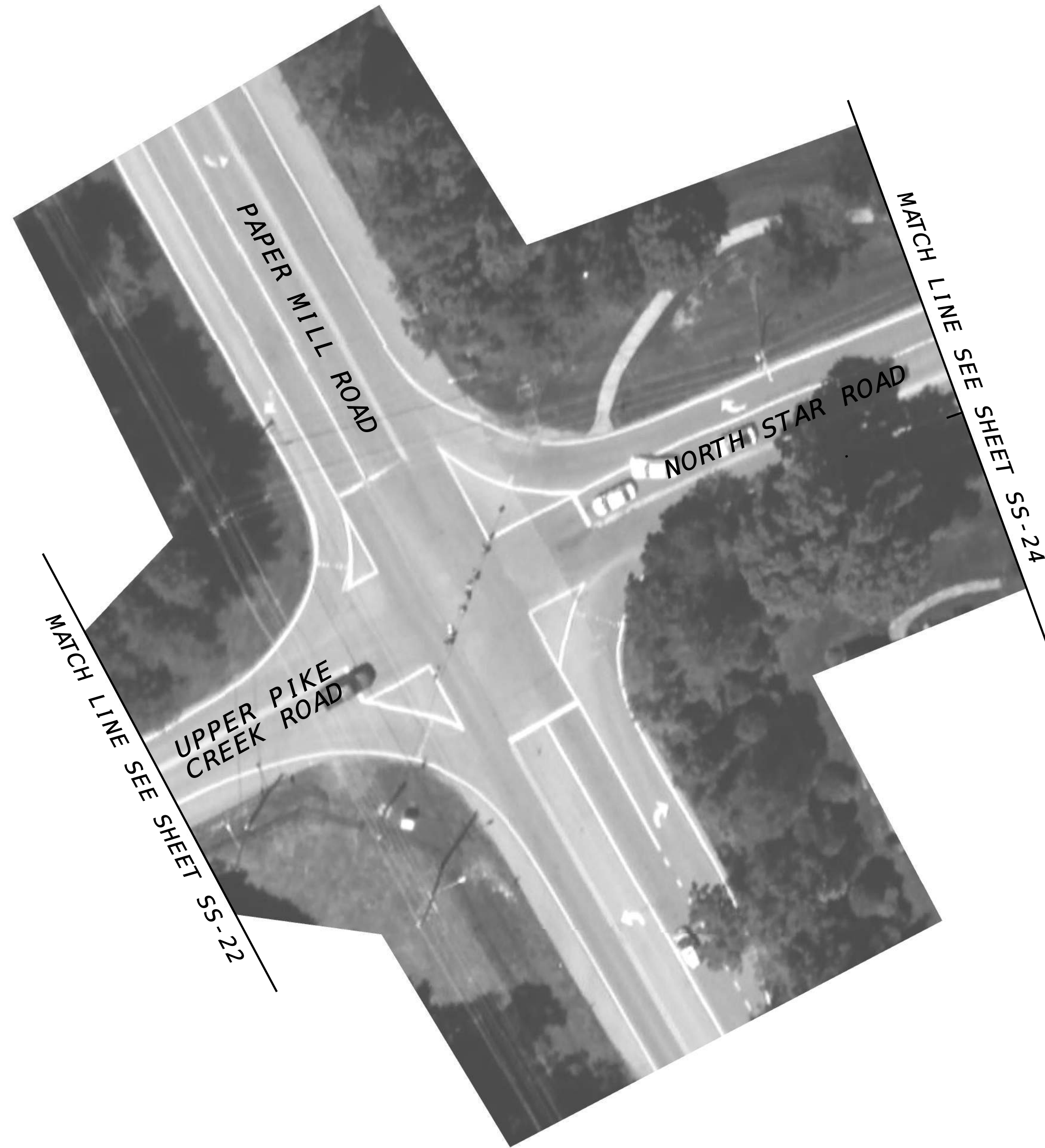
ADDENDUMS / REVISIONS

SS-22
SECTION
JMT
SHEET NO.
36



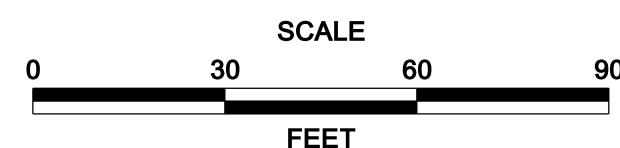
NOTES:

1. UPPER PIKE CREEK ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.
2. SEE PAPER MILL ROAD PLAN FOR PROPOSED SIGNING, STRIPING AND SIGNAL WORK.



8/8/2024 9:51:49 AM c:\pwworking\jmt\jmt.com\00948122\SS - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS	

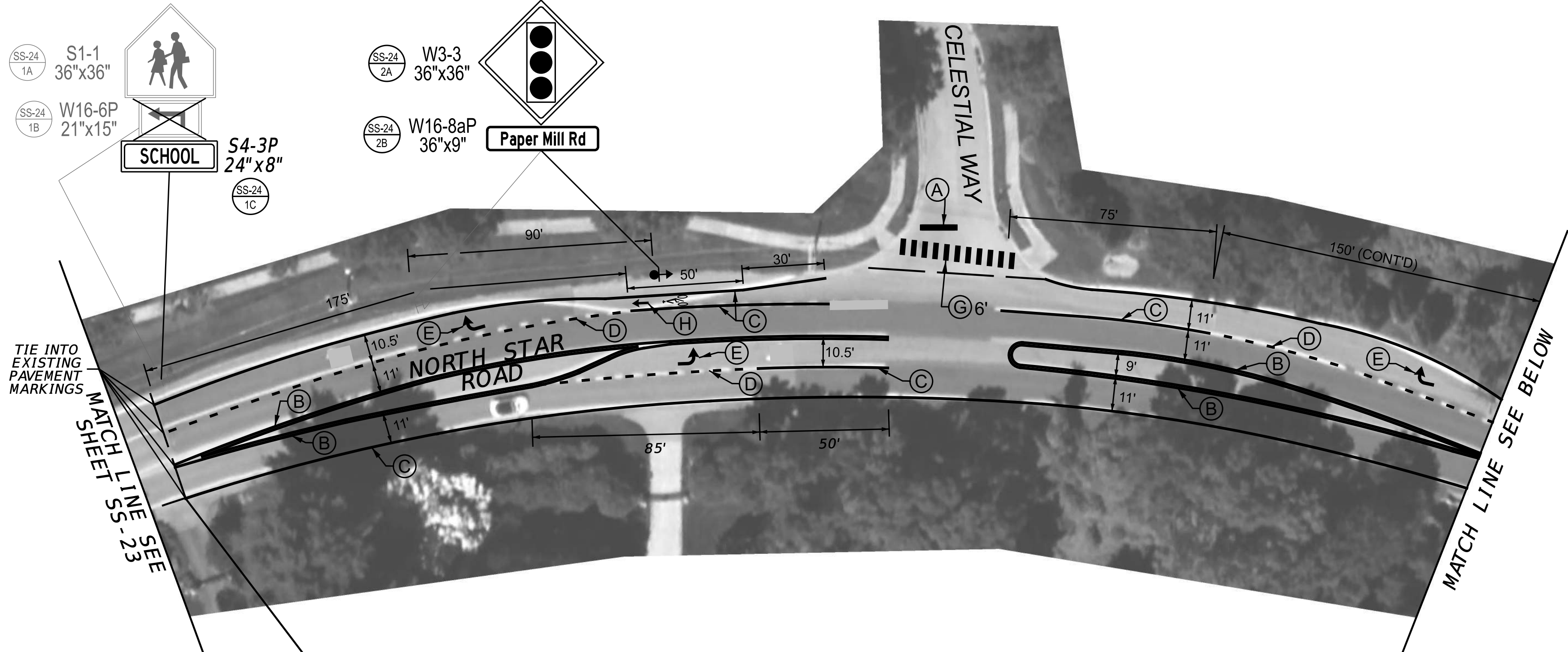


**PAVEMENT & REHABILITATION  
NORTH I, 2024  
UPPER PIKE CREEK ROAD**

CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY: R. KUSY / J. CLEM	
COUNTY	CHECKED BY: M. WAHED	
NEW CASTLE		

**SIGNING AND STRIPING PLAN**

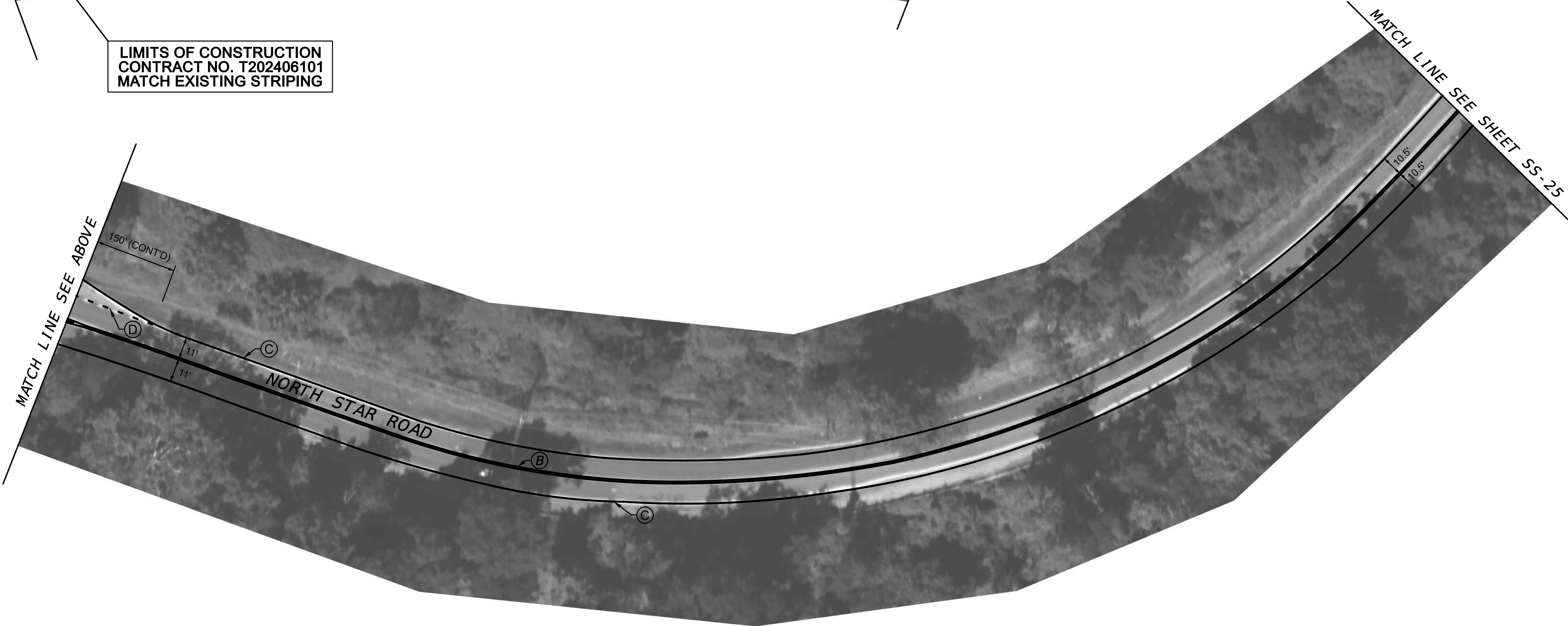
SS-23
SECTION
JMT
SHEET NO.
37



LIMITS OF CONSTRUCTION  
 CONTRACT NO. T202406101  
 MATCH EXISTING STRIPING

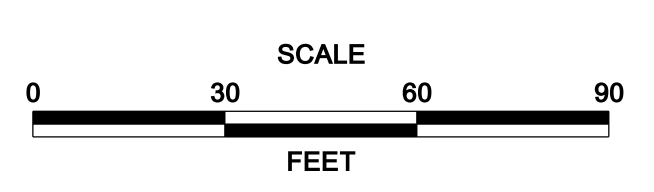
PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	19 SF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	3,480 LF
(C)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,685 LF
(D)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	120 LF
(E)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	51 SF
(G)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	145 SF
(H)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS WHITE, BIKE SYMBOL (ITEM 817015)	1 EA

- NOTES:
- NORTH STAR ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:52:57 AM  
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ADDENDUMS / REVISIONS



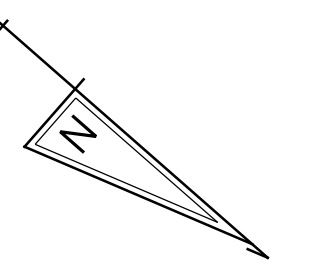
**PAVEMENT & REHABILITATION  
 NORTH 1, 2024  
 NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

<b>SIGNING AND STRIPING PLAN</b>	
SHEET NO.	38

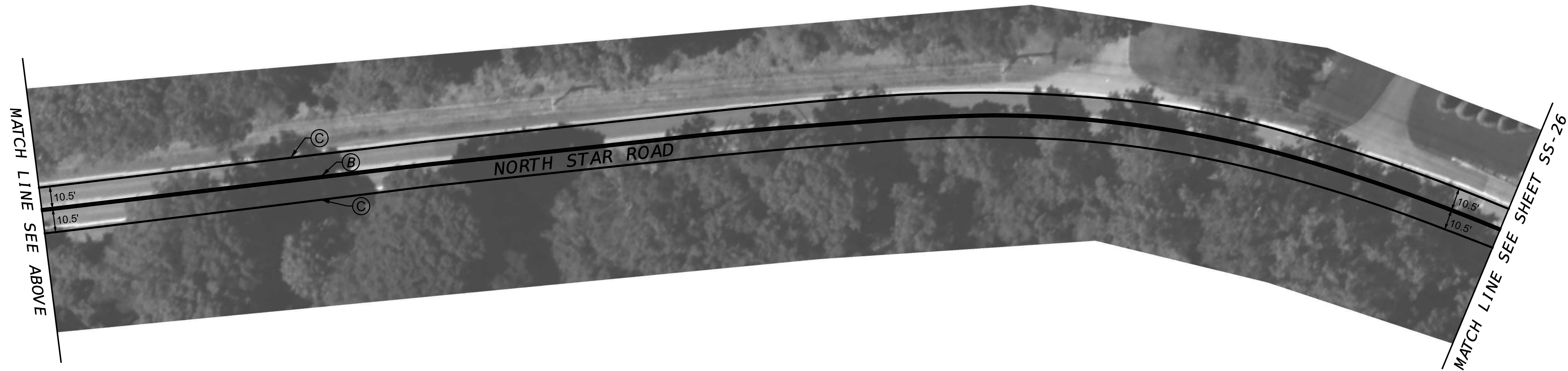
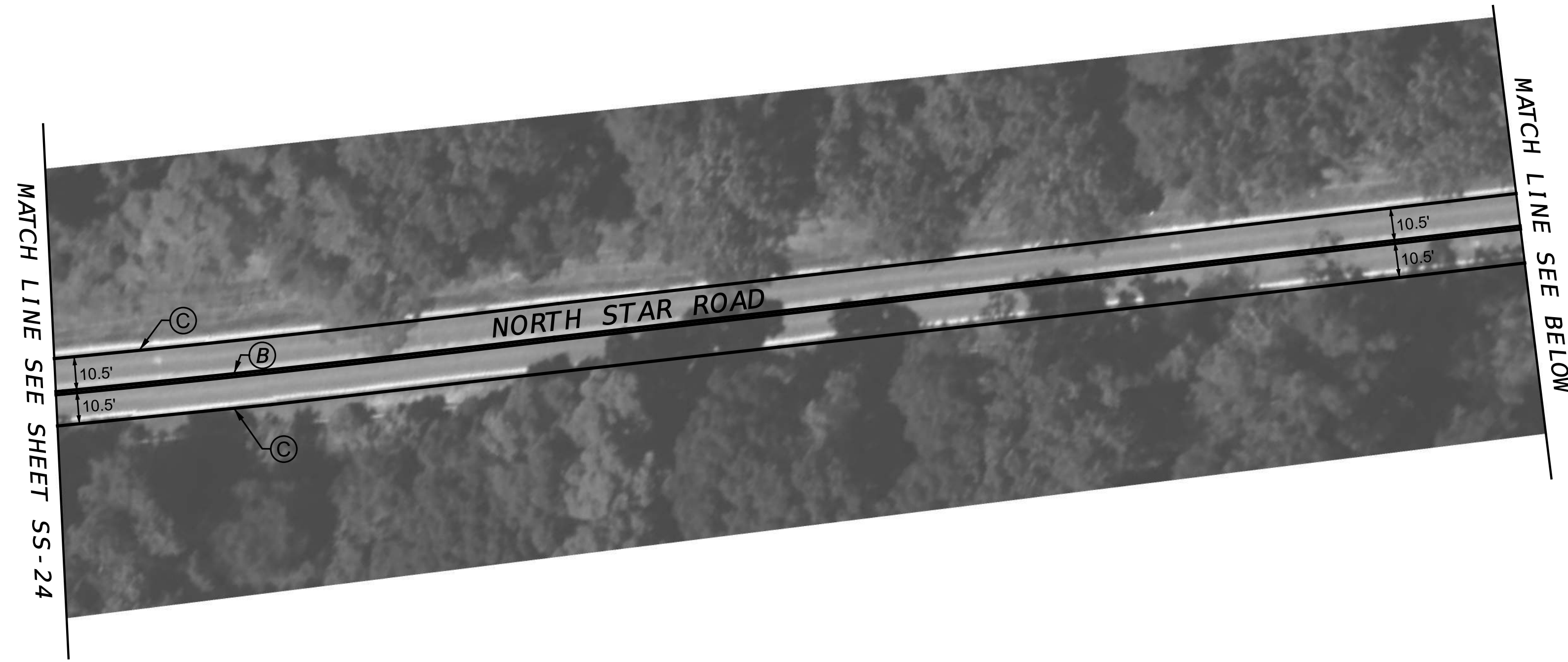
SS-24
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PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,590 LF
ⓒ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,590 LF

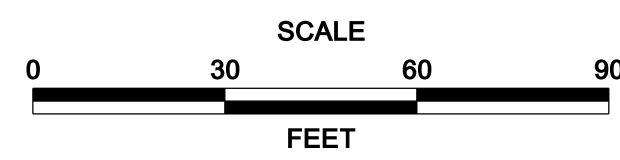


NOTES:

- NORTH STAR ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH 1, 2024  
NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

**SIGNING AND  
STRIPING PLAN**

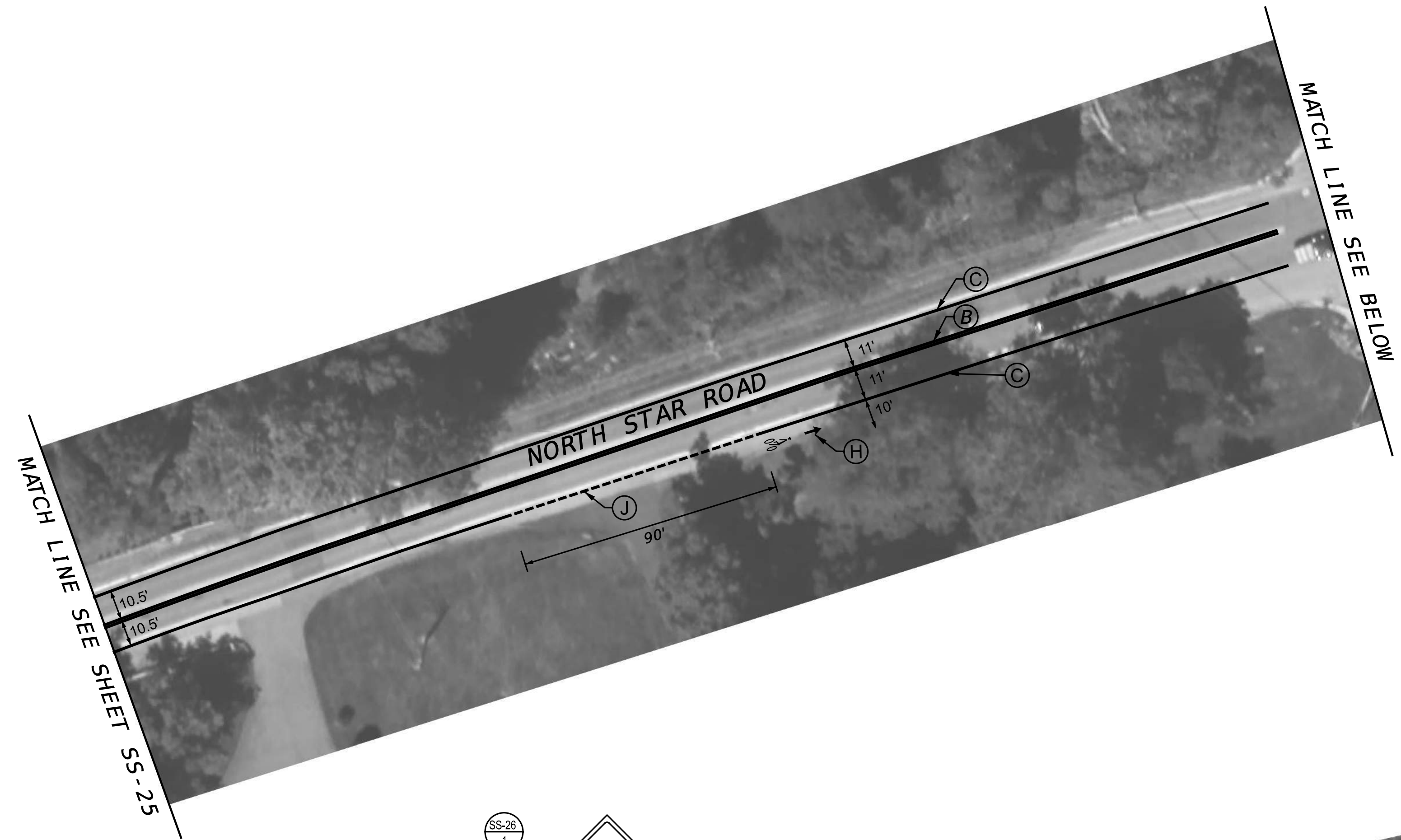
SS-25

SECTION

JMT

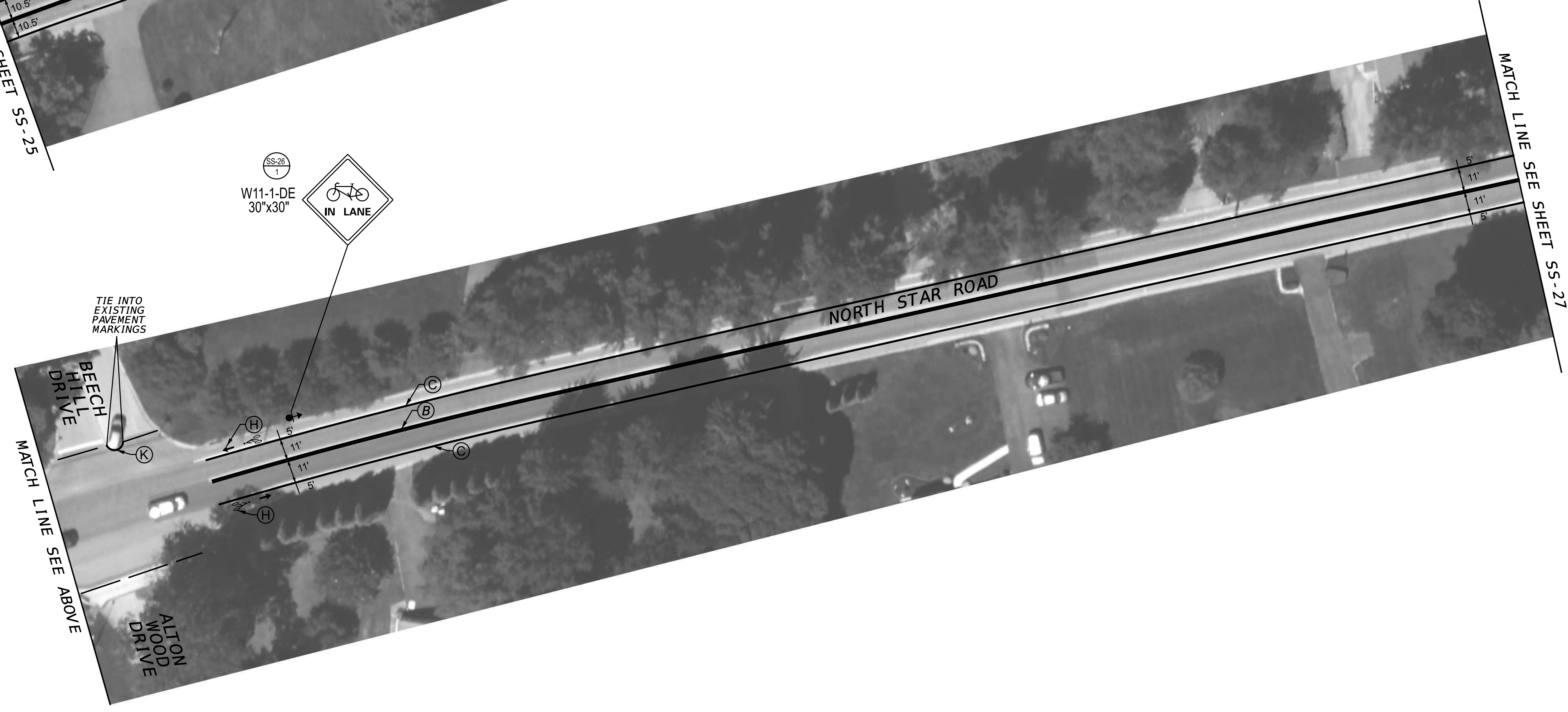
SHEET NO.

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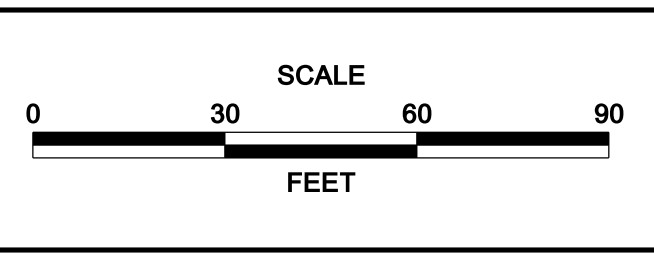
PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
Ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,415 LF
Ⓒ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,385 LF
Ⓗ	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS WHITE, BIKE SYMBOL (ITEM 817015)	3 EA
Ⓙ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 2' GAP (ITEM 817042)	25 LF
Ⓚ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID (ITEM 817042)	15 LF

NOTES:  
 1. NORTH STAR ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:55:54 AM c:\pwworking\jmt\clem\jmt.com\0948122155 - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS

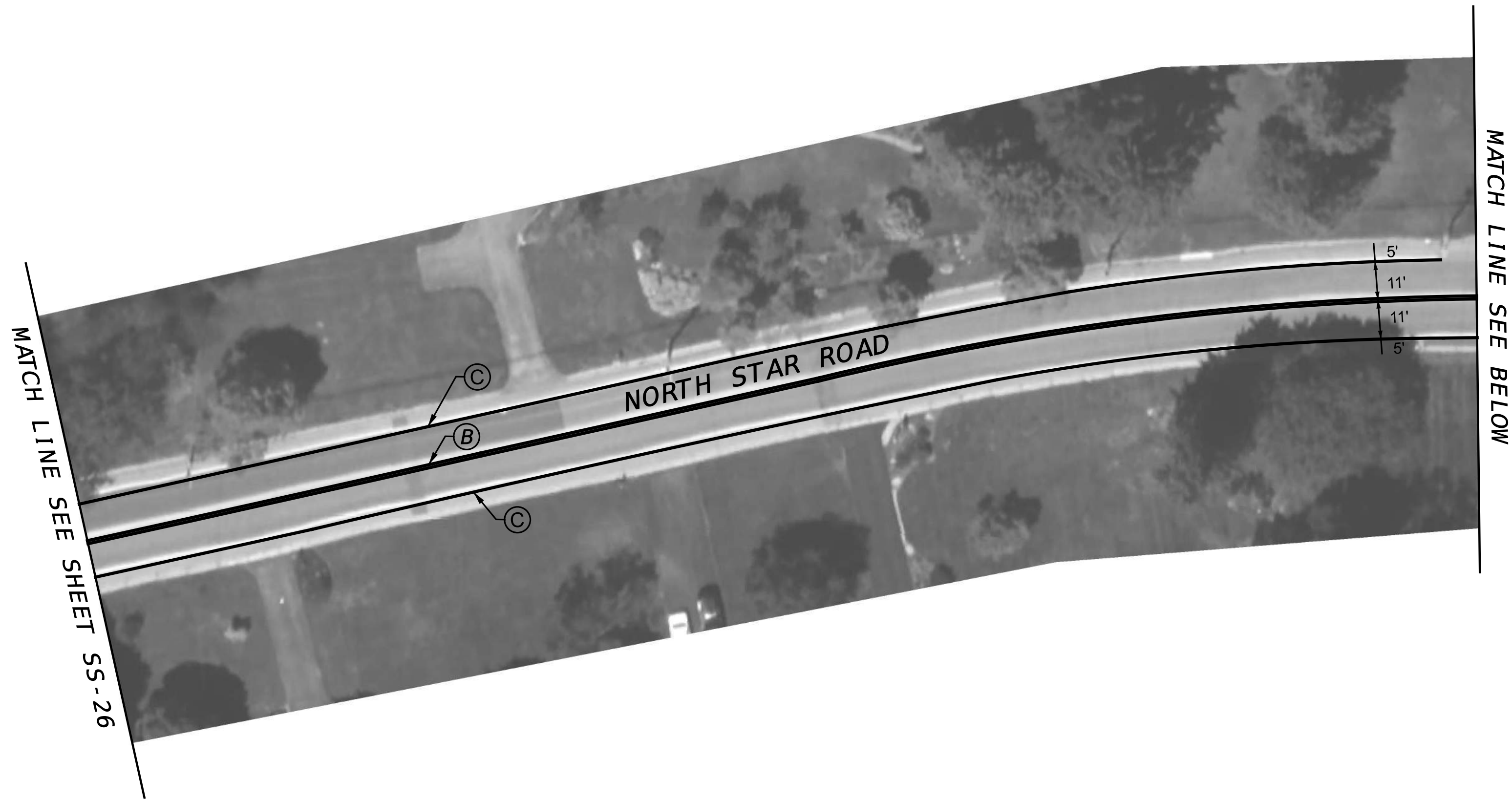


**PAVEMENT & REHABILITATION  
 NORTH 1, 2024  
 NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

<b>SIGNING AND STRIPING PLAN</b>	SECTION
	JMT
	SHEET NO.
	40

SS-26
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PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,515 LF
(C)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,520 LF

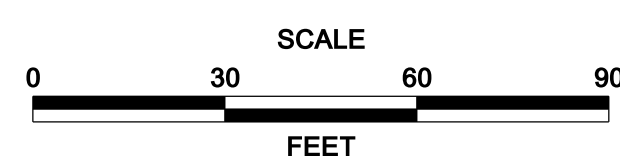
NOTES:

1. NORTH STAR ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



8/8/2024 9:57:40 AM c:\pwworking\jmt\jmt\jmt.com\00948122\SS - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION**  
**NORTH 1, 2024**  
**NORTH STAR ROAD**

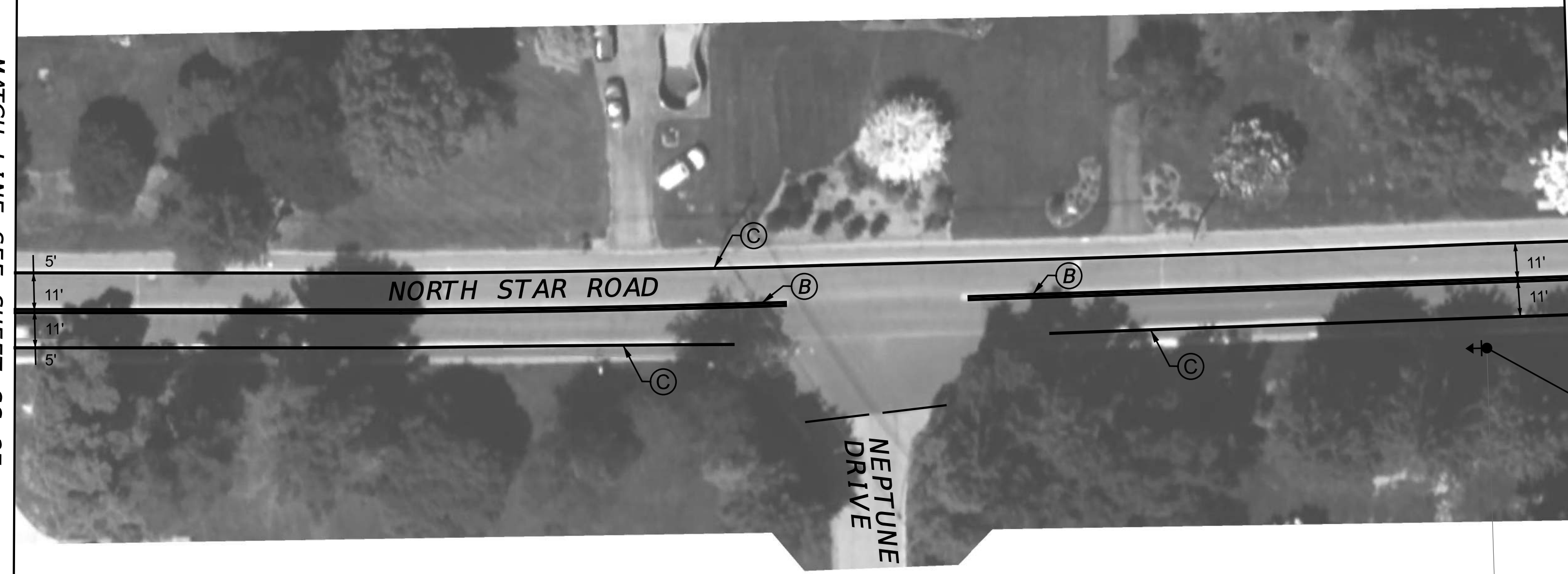
CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

**SIGNING AND STRIPING PLAN**  
 SECTION  
 JMT  
 SHEET NO.  
 41

SS-27
SECTION
JMT
SHEET NO.
41



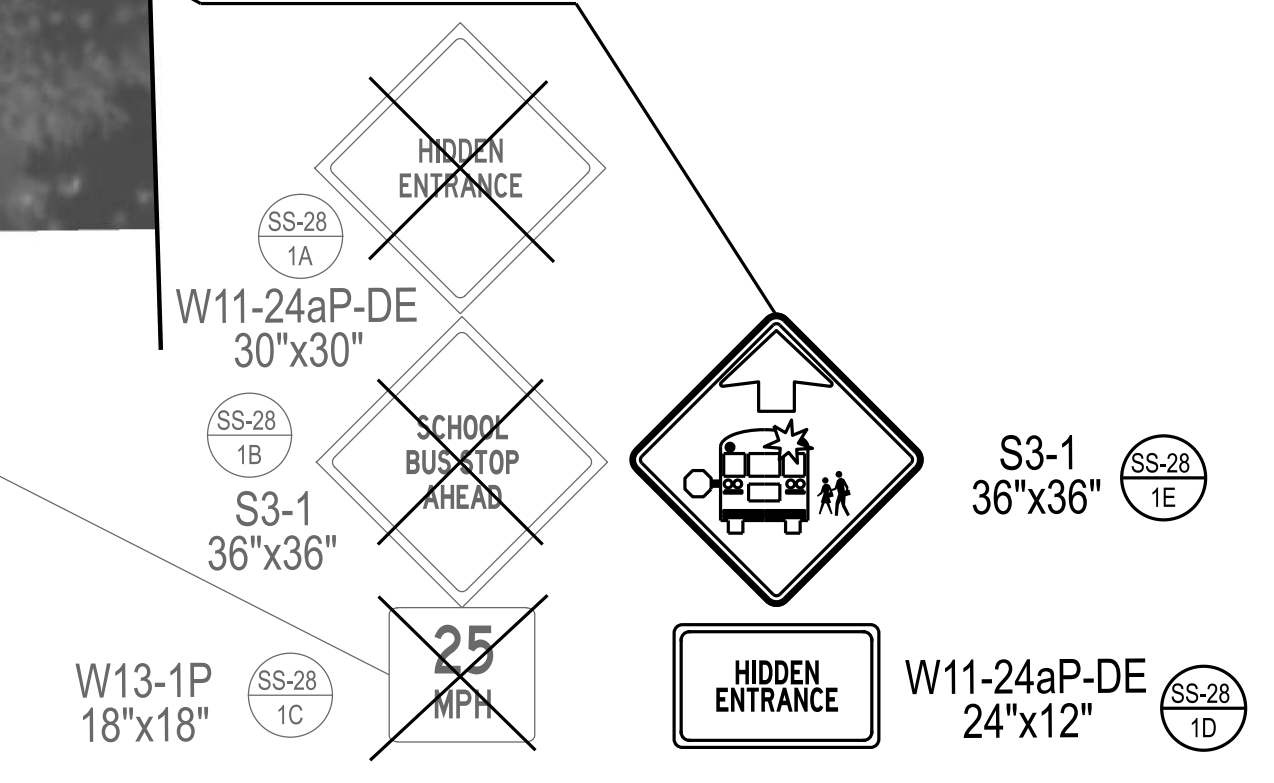
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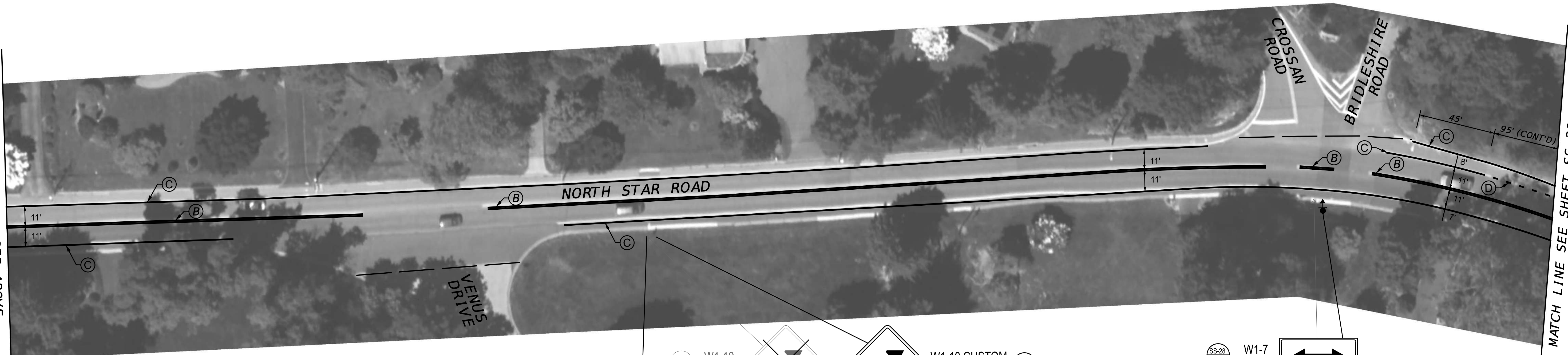
MATCH LINE SEE BELOW

PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,270 LF
(C)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,735 LF
(D)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	15 LF

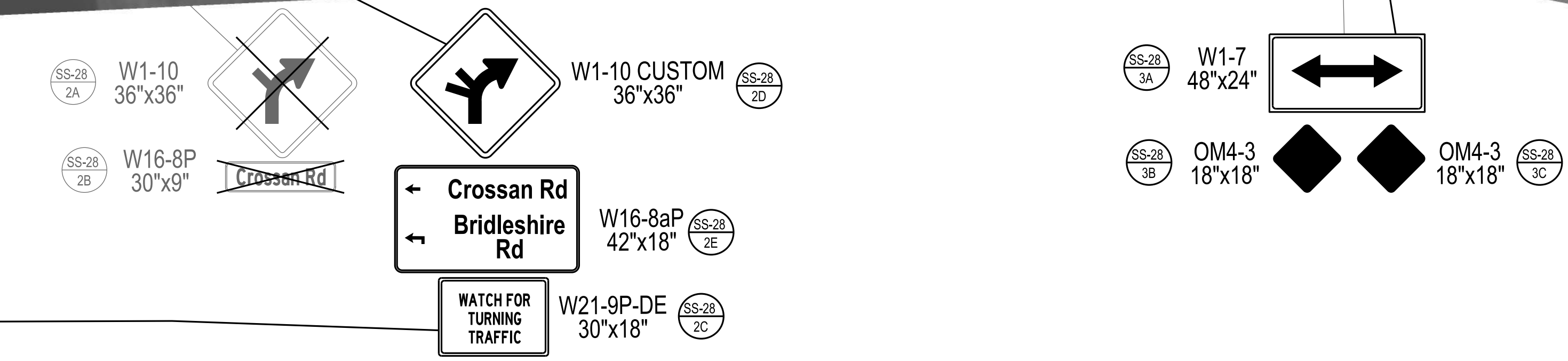
- NOTES:
- NORTH STAR ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.
  - SIGNS 2C, 2D AND 2E SHALL BE FLUORESCENT YELLOW SIGNS.
  - SIGNS 1E AND 1D SHALL HAVE A FLUORESCENT YELLOW GREEN BACKGROUND.



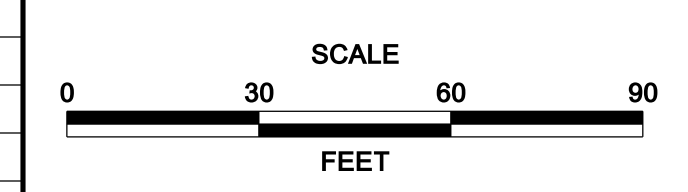
MATCH LINE SEE ABOVE



MATCH LINE SEE SHEET SS-29



ADDENDUMS / REVISIONS

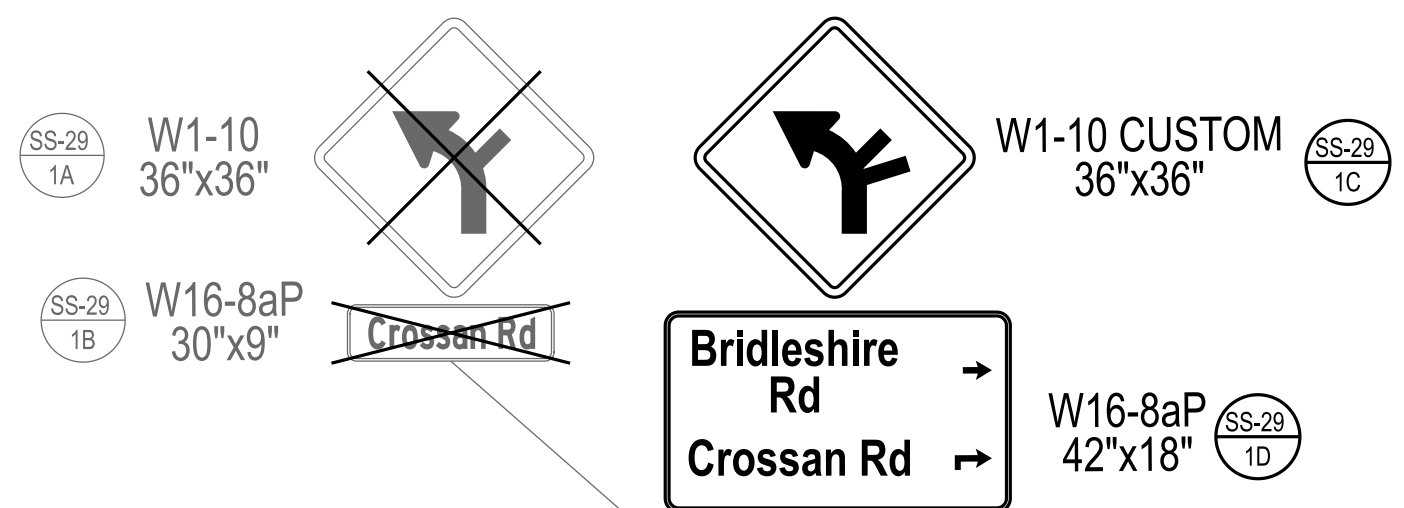


**PAVEMENT & REHABILITATION  
NORTH 1, 2024  
NORTH STAR ROAD**

CONTRACT	T202406101	ROAD NO.	N295
COUNTY	NEW CASTLE	DESIGNED BY:	R. KUSY / J. CLEM
		CHECKED BY:	M. WAHED

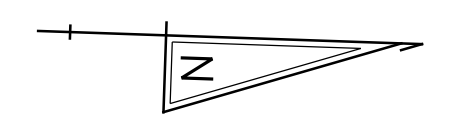
**SIGNING AND STRIPING PLAN**

SS-28
SECTION
JMT
SHEET NO.
42



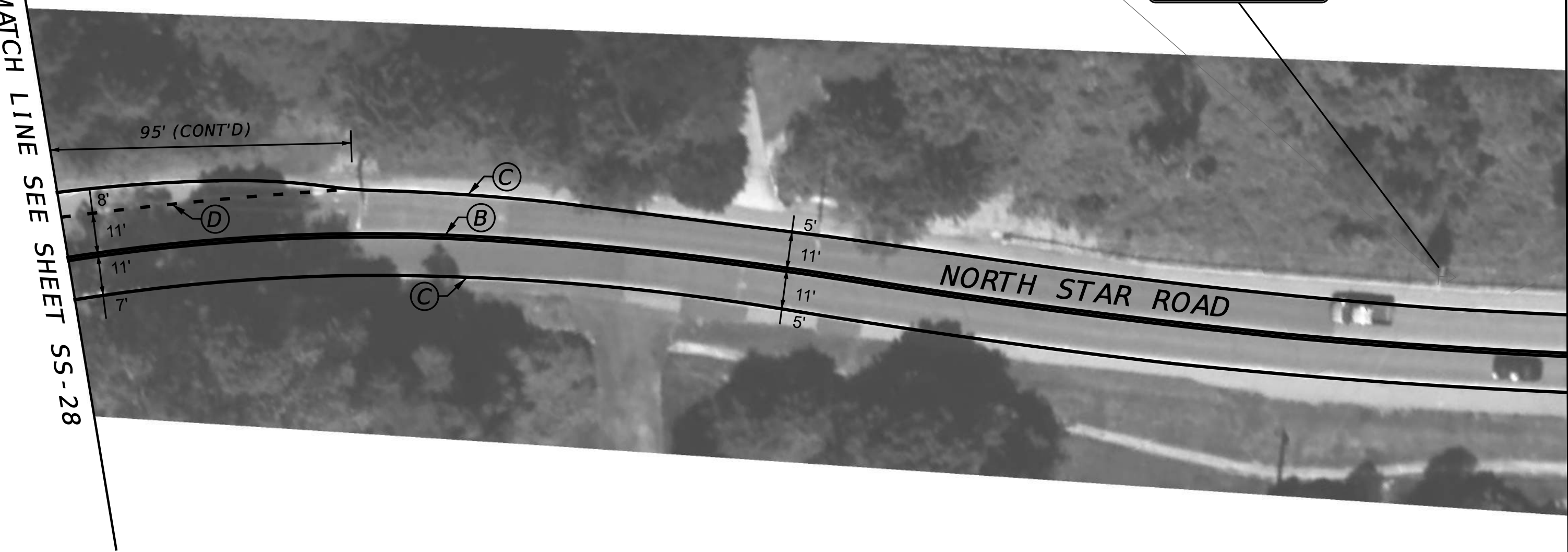
PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,170 LF
ⓒ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,595 LF
ⓓ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	90 LF
ⓔ	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	18 SF
ⓙ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 2' GAP (ITEM 817042)	15 LF
ⓗ	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS WHITE, BIKE SYMBOL (ITEM 817015)	1 EA

- NOTES:
- NORTH STAR ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.
  - SIGNS 1C AND 1D SHALL BE FLUORESCENT YELLOW SIGNS.



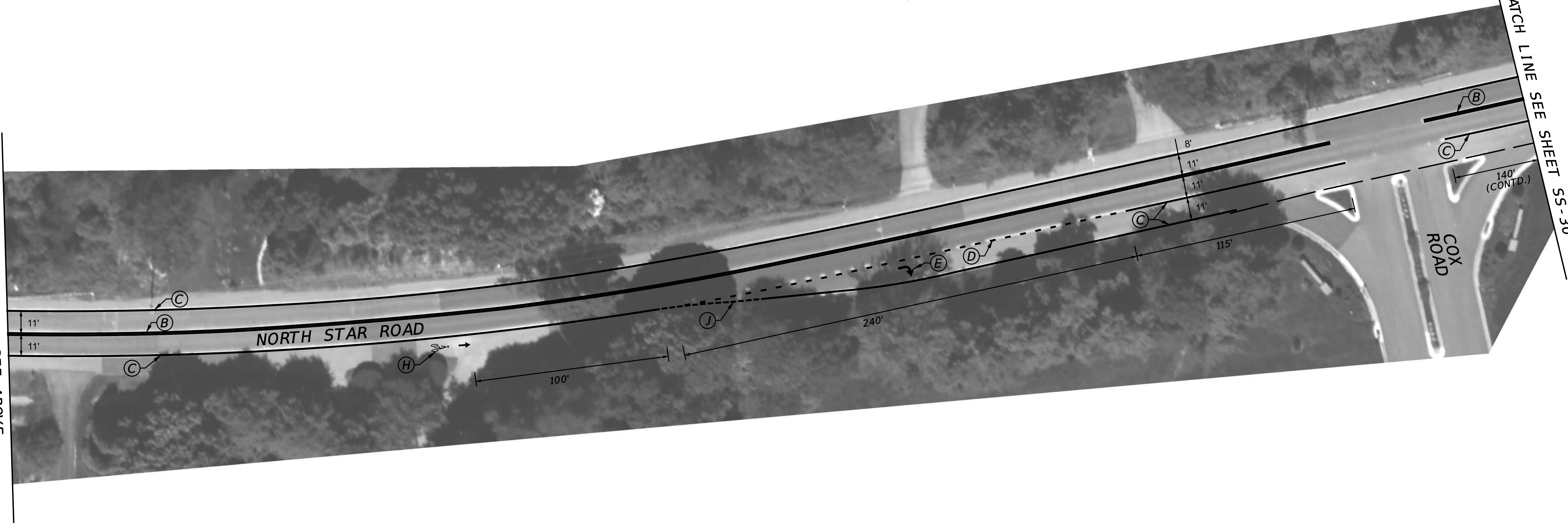
MATCH LINE SEE SHEET SS-28

MATCH LINE SEE BELOW



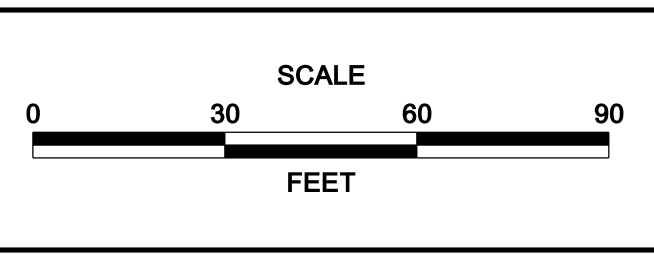
MATCH LINE SEE ABOVE

MATCH LINE SEE SHEET SS-30



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ADDENDUMS / REVISIONS

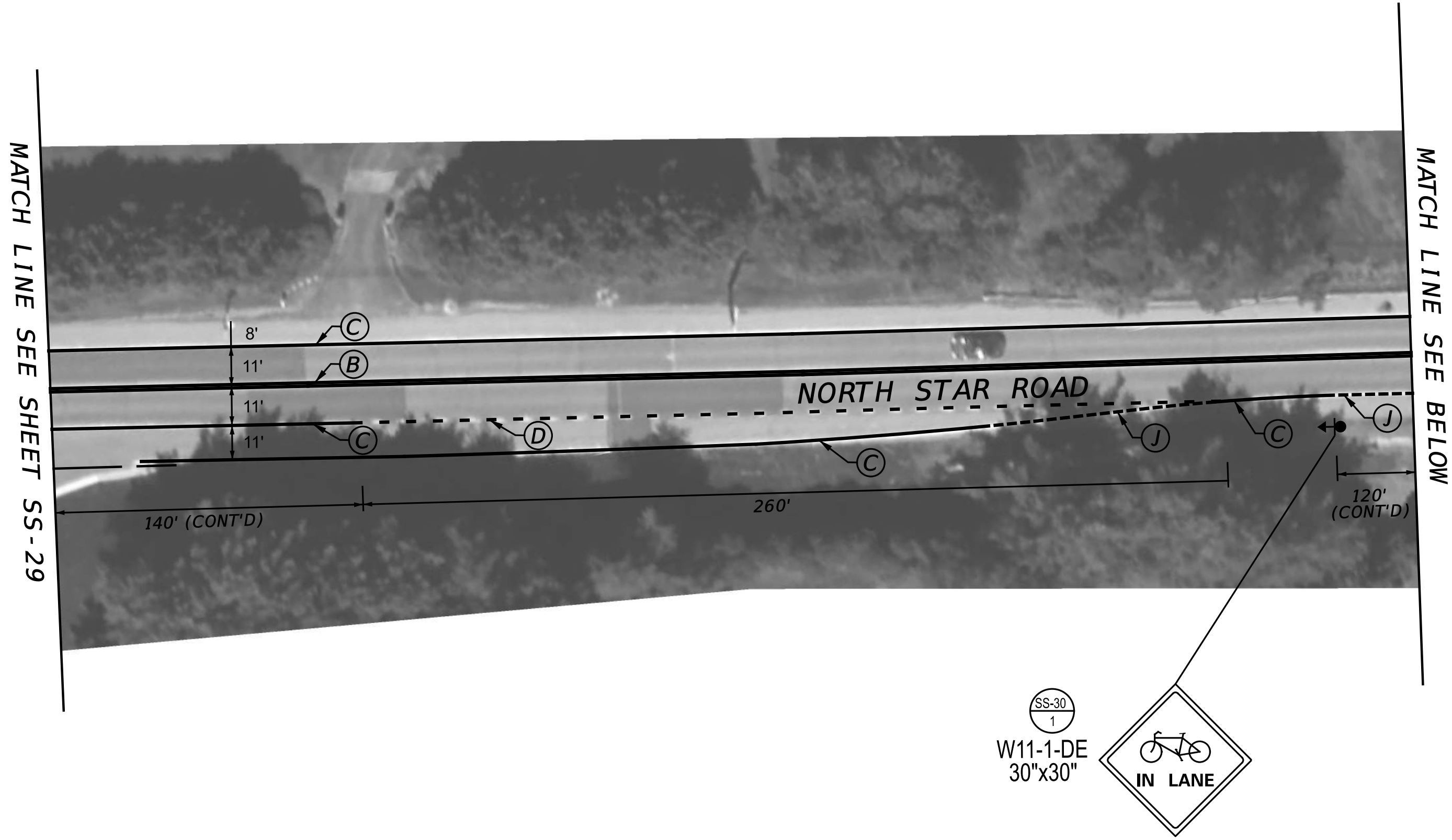
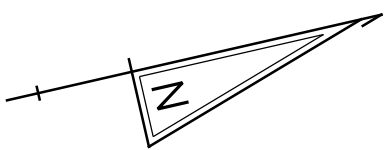


**PAVEMENT & REHABILITATION  
NORTH 1, 2024  
NORTH STAR ROAD**

CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

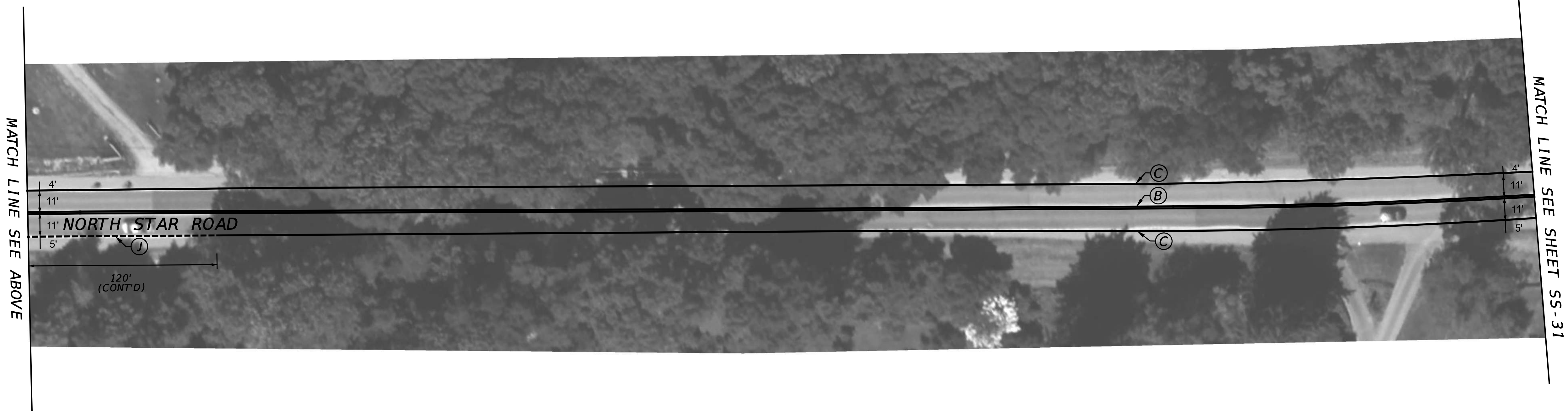
**SIGNING AND STRIPING PLAN**

SS-29
SECTION
JMT
SHEET NO.
43



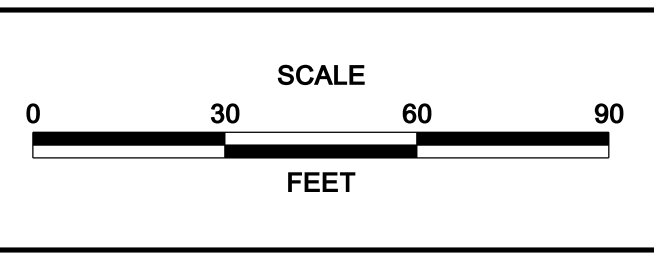
PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,710 LF
ⓒ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,550 LF
ⓓ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	75 LF
Ⓣ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 2' GAP (ITEM 817042)	55 LF

NOTES:  
 1. NORTH STAR ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



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ADDENDUMS / REVISIONS

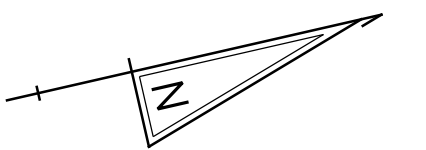


**PAVEMENT & REHABILITATION  
 NORTH 1, 2024  
 NORTH STAR ROAD**

CONTRACT T202406101	ROAD NO. N295
COUNTY NEW CASTLE	DESIGNED BY: R. KUSY / J. CLEM
	CHECKED BY: M. WAHED

<b>SIGNING AND STRIPING PLAN</b>	SECTION JMT
	SHEET NO. 44

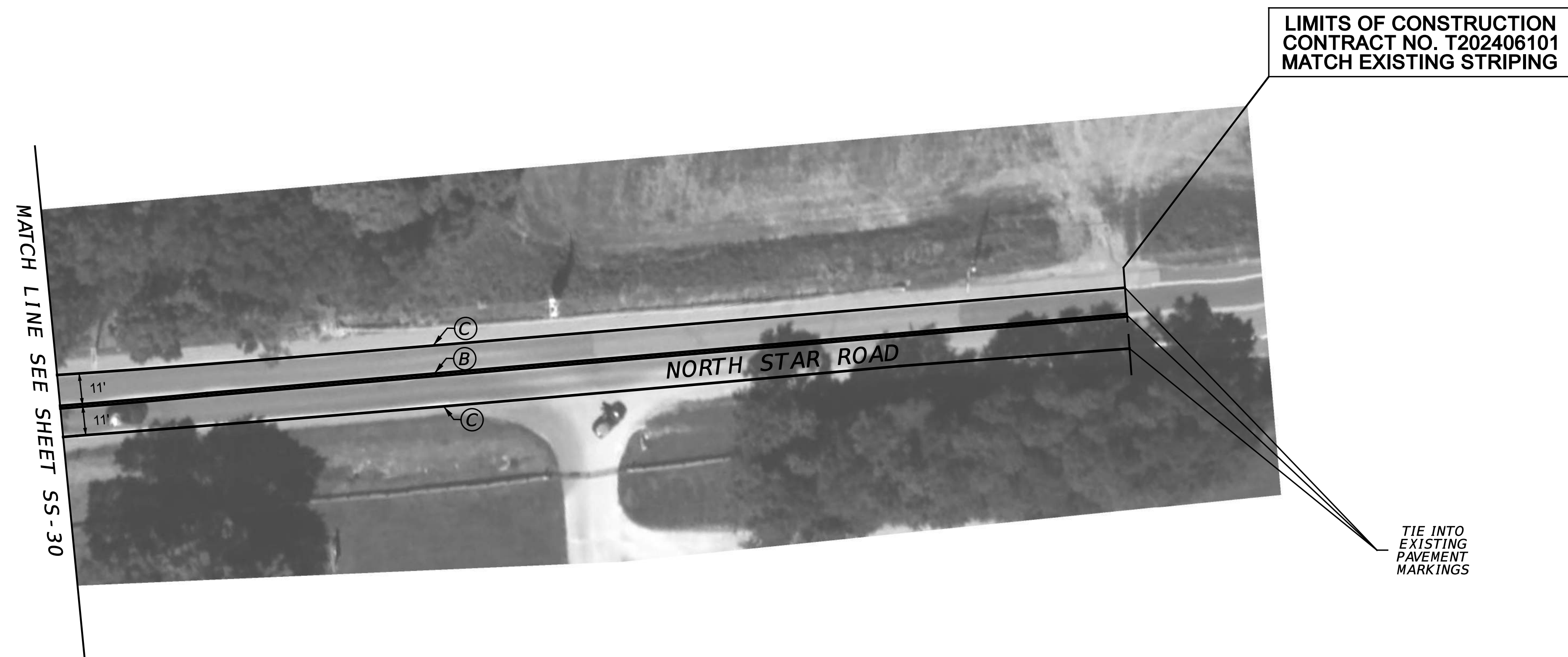
SS-30
SECTION
JMT
SHEET NO.
44



PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
Ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	880 LF
Ⓒ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	880 LF

NOTES:

- NORTH STAR ROAD HAS VARYING LANE WIDTHS THAT CHANGE RAPIDLY THROUGHOUT THE CORRIDOR.



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ADDENDUMS / REVISIONS		SCALE  FEET	<b>PAVEMENT &amp; REHABILITATION          NORTH 1, 2024          NORTH STAR ROAD</b>	CONTRACT T202406101	ROAD NO. N295	<b>SIGNING AND          STRIPING PLAN</b>	SECTION JMT
				COUNTY NEW CASTLE	DESIGNED BY: R. KUSY / J. CLEM		SHEET NO. 45
				CHECKED BY: M. WAHED			

SS-31

PERMANENT SIGN SCHEDULE - UPPER PIKE CREEK ROAD

SHEET NO.	PLAN IDENTIFIER	SIGN DESIGNATION	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	X13 / ITEM 818001 FLAT SHEET ALUMINUM TYPE IV RETROREFLECTIVE SHEETING (SF)	X14 / ITEM 818003 FLAT SHEET ALUMINUM TYPE XI RETROREFLECTIVE SHEETING (SF)	X15 / ITEM 819512 SIGN POST REFLECTIVE PANEL (EA)	ITEM 819018 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE POST (EACH)			ITEM 819019 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS (SF)			POST INSTALLATION TYPE	X16 / ITEM 819011 12 SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	X17 / ITEM 819023 15 SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	ITEM 819016 4" HOLE, 0-6" (EACH)	ITEM 819017 4" HOLE, >6" (EACH)	SIGN DISPOSITION	X14A FLAT SHEET ALUMINUM SIGN PANELS (TYPE XI SHEETING) - SIGNS ON POLES, SPAN WIRES, MAST ARMS (TRAFFIC SUPPLY)	ITEM 822500 INSTALL OVERHEAD SIGN (SF) ON SIGNAL POLES TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	ITEM 823003 REMOVAL OF SIGN ON SPAN WIRE OR MAST ARM (EA) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	ITEM 823001 INSTALLATION OF SIGN ON SPAN WIRE OR MAST ARM (SF) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	REMARKS
										SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL											
SS-13	1A	W3-3(36)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36	9.0				NEW															
SS-13	1B	W16-8aP	1	ADVANCE STREET NAME (2 - line plaque)	30	18	3.8				ADD TO ASSEMBLY															"Linden Hill Rd" (Highway Font C, 4" Normal Kerning)
SS-22	1A	W3-3(36)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36	9.0				RENEW	1	1													
SS-22	1B	D3-2-DE3	1	DEVELOPMENT NAME	36	32					REMOVE	1														(Left Arrow) "SPRING MEADOW"
SS-22	1C	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	36	9	2.3				ADD TO ASSEMBLY		1													"Paper Mill Rd" (Highway Font C, 4" Normal Kerning)
SS-22	1D	D3-2-DE3	1	DEVELOPMENT NAME	30	16	3.0				ADD TO ASSEMBLY		1													(Left Arrow) "Spring Meadow" (Highway Font D, 4" Normal Kerning)
SS-22	2A	D3-2-DE3	1	DEVELOPMENT NAME	36	32					REMOVE	1														"SPRING MEADOW" (Right Arrow)
SS-22	2B	D3-2-DE3	1	DEVELOPMENT NAME	30	16	3.0				ADD TO ASSEMBLY		1													"Spring Meadow" (Highway Font D, 4" Normal Kerning) (Right Arrow)
SS-22	3A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36					REMAIN															
SS-22	3B	W16-8P_R	1	RIGHT ADVANCE TURN ARROW (plaque)	24	18					REMOVE	1														
SS-22	3C	S4-3P(24)	1	SCHOOL - 24x8	24	8		1.3			ADD TO ASSEMBLY		1													
SS-24	1A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36					REMAIN															
SS-24	1B	W16-8P_L	1	LEFT ADVANCE TURN ARROW (plaque)	24	18					REMOVE	1														
SS-24	1C	S4-3P(24)	1	SCHOOL - 24x8	24	8		1.3			ADD TO ASSEMBLY		1													
SS-24	2A	W3-3(36)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36	9.0				RENEW	1	1													
SS-24	2B	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	36	9	2.3				NEW		1													"Paper Mill Rd" (Highway Font C, 4" Normal Kerning)
SS-28	1	W11-1-DE(30)	1	BICYCLE (Symbol) IN LANE - 30x30	30	30	6.3				NEW		1													
SS-28	1A	W11-24aP-DE	1	HIDDEN ENTRANCE (plaque)	24	12					REMOVE	1														
SS-28	1B	S3-1(36)	1	SCHOOL BUS STOP AHEAD - 36x36	36	36					REMOVE	1														
SS-28	1C	W13-1P-25(18)	1	ADVISORY SPEED (25 MPH) 18x18	18	18					REMOVE	1														
SS-28	1D	W11-24aP-DE_FY	1	HIDDEN ENTRANCE (plaque) (Fluorescent Yellow)	24	12	2.0				ADD TO ASSEMBLY		1													
SS-28	1E	S3-1(36)	1	SCHOOL BUS STOP AHEAD - 36x36	36	36		9.0			ADD TO ASSEMBLY		1													
SS-28	2A	W1-10_L(36)	1	COMBINATION HORIZONTAL ALIGNMENT/INTERSECTION (Left) - 36x36	36	36					REMOVE	1														
SS-28	2B	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	30	9					REMOVE	1														"Crossan Rd"
SS-28	2C	W21-9P-DE_FY	1	WATCH FOR TURNING TRAFFIC (plaque) - 30x18 (Fluorescent Yellow)	30	18		3.8			RENEW	1	1													FLUORESCENT YELLOW BACKGROUND
SS-28	2D	W1-10_L_FY(36)	1	COMBINATION HORIZONTAL ALIGNMENT/INTERSECTION (Left) - 36x36 (Fluorescent Yellow)	36	36		9.0			ADD TO ASSEMBLY		1													FLUORESCENT YELLOW BACKGROUND
SS-28	2E	W16-8aP_FY	1	ADVANCE STREET NAME (2 - line plaque) (Fluorescent Yellow)	42	18		5.3			ADD TO ASSEMBLY		1													(Left Arrow) "Crossan Rd" / (Advance Left Arrow) "Bridleshire / Rd" (Highway Font C, 4" Normal Kerning) FLUORESCENT YELLOW BACKGROUND
SS-28	3A	W1-7(48)	1	TWO DIRECTIONAL LARGE ARROW - 48x24	48	24	8.0																			
SS-28	3B	OM4-3	1	END OF ROAD OBJECT MARKER	18	18	2.3				RENEW	1	1													
SS-28	3C	OM4-3	1	END OF ROAD OBJECT MARKER	18	18	2.3				ADD TO ASSEMBLY		1													
SS-29	1A	W1-10_L(36)	1	COMBINATION HORIZONTAL ALIGNMENT/INTERSECTION (Left) - 36x36	36	36					REMOVE	1														
SS-29	1B	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	30	9					REMOVE	1														"Crossan Rd"
SS-29	1C	W1-10_L_FY(36)	1	COMBINATION HORIZONTAL ALIGNMENT/INTERSECTION (Left) - 36x36 (Fluorescent Yellow)	36	36		9.0			ADD TO ASSEMBLY		1													FLUORESCENT YELLOW BACKGROUND
SS-29	1D	W16-8aP_FY	1	ADVANCE STREET NAME (2 - line plaque) (Fluorescent Yellow)	42	18		5.3			ADD TO ASSEMBLY		1													(Right Arrow) "Crossan Rd" / (Right Arrow) "Bridleshire / Rd" (Right Arrow) "Crossan Rd" (Advance Right Turn Arrow) FLUORESCENT YELLOW BACKGROUND
SS-30	1	W11-1-DE(30)	1	BICYCLE (Symbol) IN LANE - 30x30	30	30	6.3				NEW		1													
PAGE TOTALS							68	44	0			15	21			8	8									

ADDENDUMS / REVISIONS

NOT TO SCALE

PAVEMENT & REHABILITATION  
NORTH I, 2024  
UPPER PIKE CREEK ROAD

CONTRACT	ROAD NO.	N295
T202406101	DESIGNED BY:	R. KUSY / J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

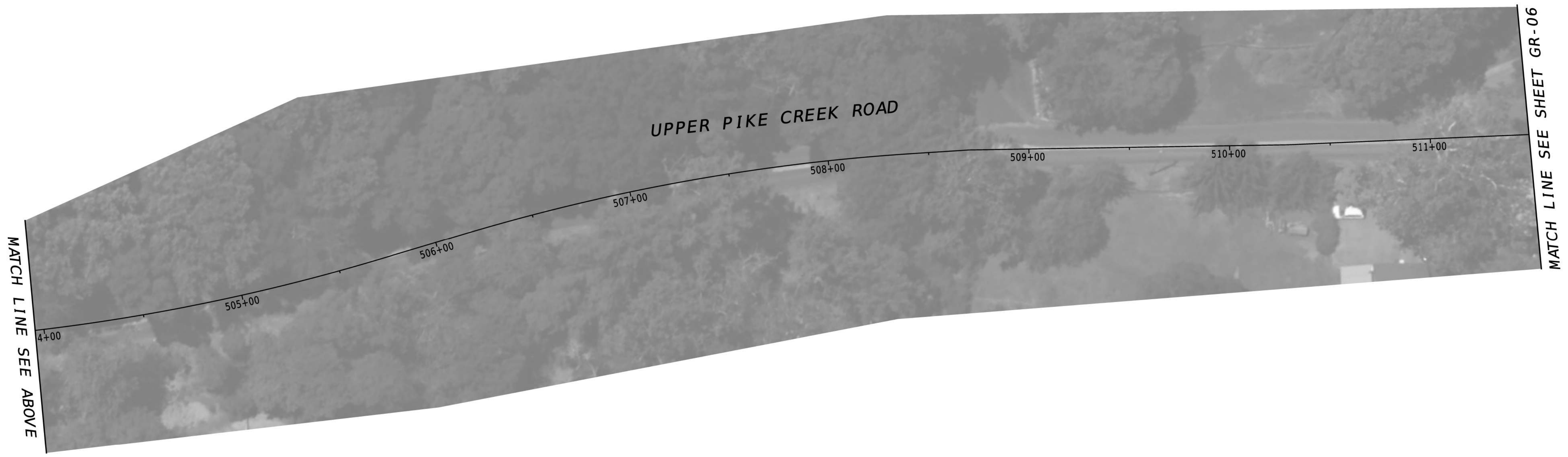
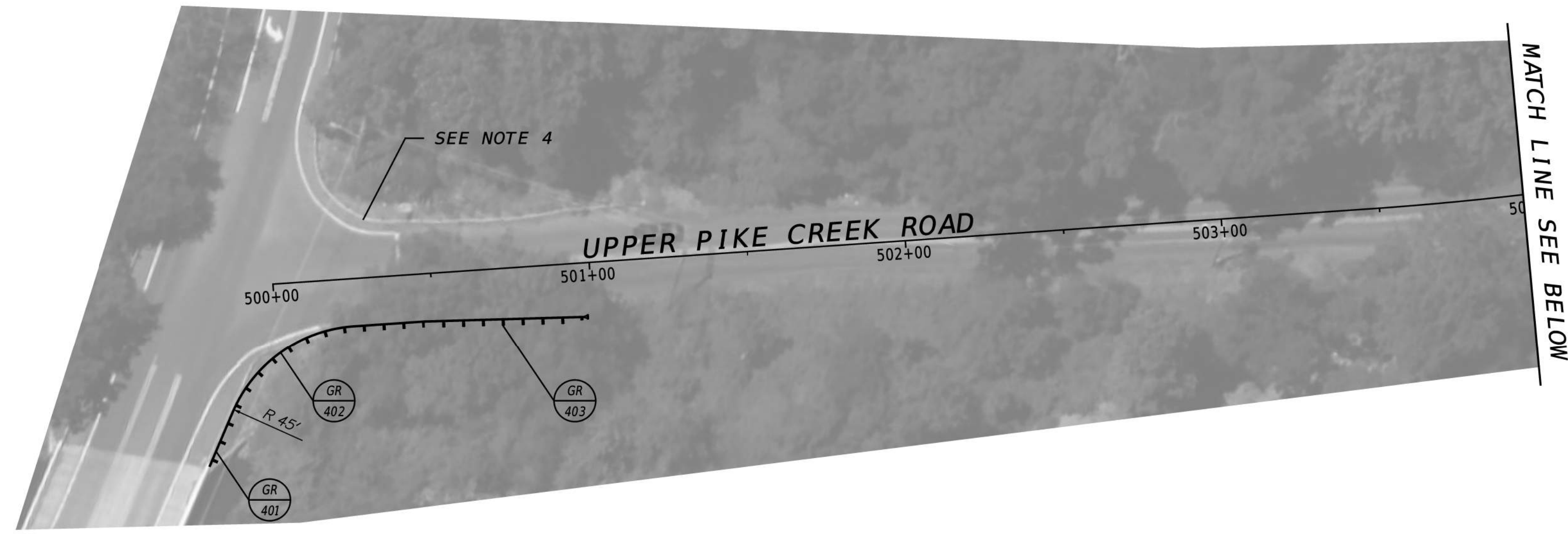
PERMANENT  
SIGN SCHEDULE

SECTION	JMT
SHEET NO.	46



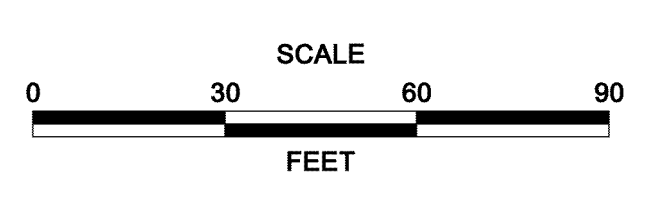
GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
401	GUARDRAIL TO BARRIER CONNECTION - EXIT TYPE 1-31	500+00.00	57.40	31.00
402	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	500+00.00	40.42	87.50
403	END TREATMENT, ATTENUATOR TYPE 1	500+46.79	14.89	50.00

- NOTES**
- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
  - SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.
  - SEE STANDARD DETAIL B-8, GUARDRAIL TO BARRIER CONNECTION, EXIT TYPE 1-31.
  - OBSTRUCTIONS PRESENT WITHIN THE CURVED GUARDRAIL SECTION. REMEDIATION TO MEET STANDARD DETAIL B-18 CURVED GUARDRAIL SECTION 1-27 IS NOT POSSIBLE.



7-AUG-2024 17:13 pwt/jmt-pw.bentley.com:jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/GR Files/GR - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024- UPPER PIKE CREEK  
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	<b>N295</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

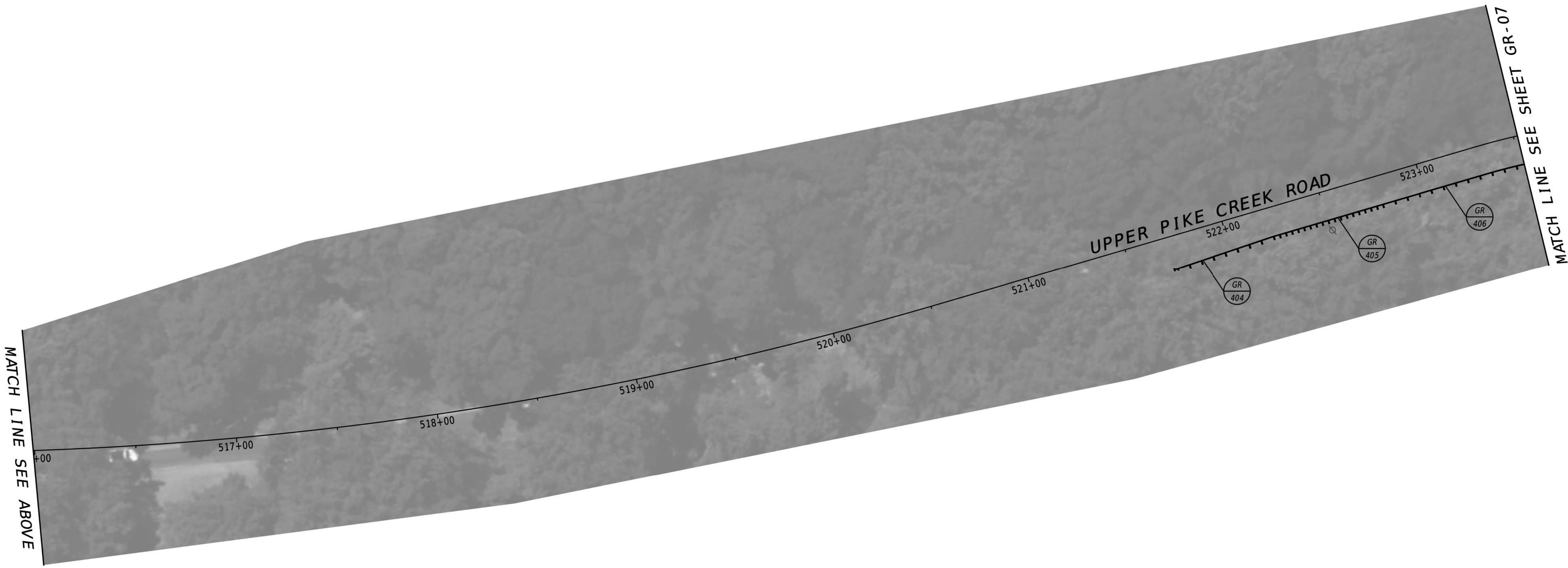
<b>GUARDRAIL PLANS</b>	SECTION	GR-05
	JMT	
	SHEET NO.	47

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
404	END TREATMENT, ATTENUATOR TYPE 1	521+73.83	16.25	50.00
405	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31	522+25.59	14.25	62.50
406	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31, STEEP SLOPE	522+76.25	14.25	125.00



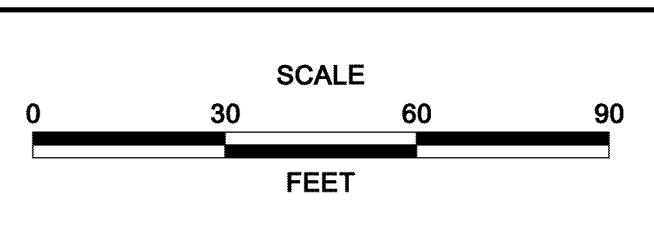
**NOTES**

1. SEE STANDARD DETAIL B-1, TYPE 2-31 GUARDRAIL APPLICATION.
2. SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.
3. SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION, STEEP SLOPE.



7-AUG-2024 17:14 pwl/jmt-pw.bentley.com:jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/GR Files/GR - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024- UPPER PIKE CREEK  
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	<b>N295</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**GUARDRAIL PLANS**

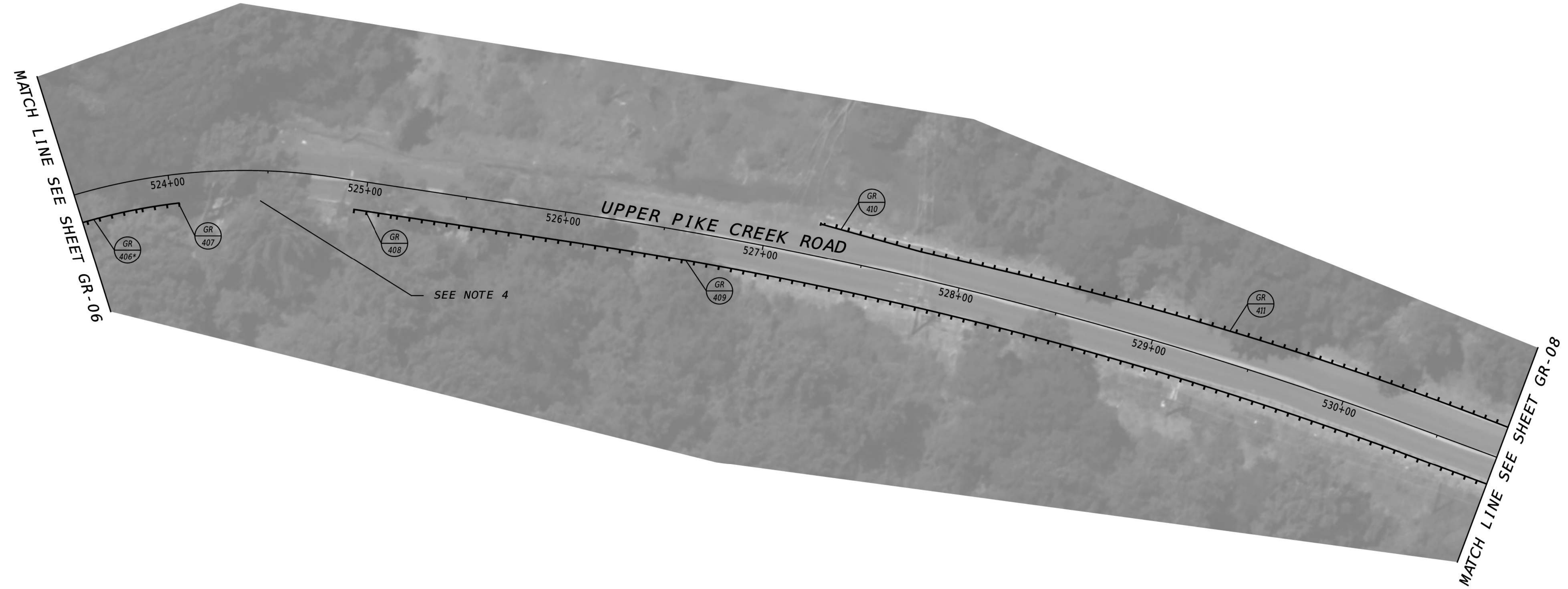
<b>GR-06</b>
SECTION
JMT
SHEET NO.
48

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
406	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31, STEEP SLOPE	522+76.25	14.25	*
407	W-BEAM, TYPE 1-27 TO TYPE 1-31 TRANSITION SECTION	523+74.50	14.25	24.00
408	W-BEAM, TYPE 1-27 TO TYPE 1-31 TRANSITION SECTION	524+95.08	14.25	24.00
409	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	524+95.33	14.25	662.50
410	END TREATMENT, ATTENUATOR TYPE 1	527+27.11	16.00	50.00
411	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31, STEEP SLOPE	527+77.27	13.17	350.00

\* QUANTITY SHOWN ON GR-06

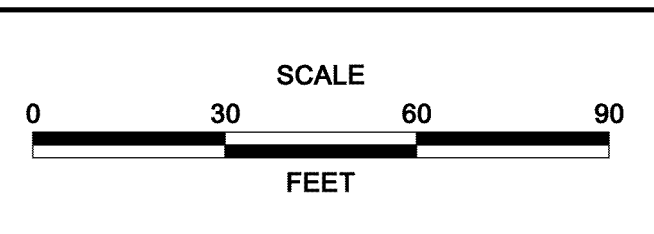
**NOTES**

1. SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION, STEEP SLOPE.
2. SEE STANDARD DETAIL B-2, GRADING FOR GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1.
3. SEE STANDARD DETAIL B-7, W-BEAM, TYPE 1-27 TO TYPE 1-31 TRANSITION SECTION.
4. EXISTING GUARDRAIL DOES NOT MEET THE DELDOT STANDARD DETAILS. EXCESSIVE SLOPES ADJACENT TO EXISTING GUARDRAIL REQUIRE REGRADING AND SLOPE STABILIZATION TO IMPROVE THE GUARDRAIL SYSTEM. THIS WORK IS OUTSIDE THE SCOPE OF THE PAVEMENT REHABILITATION.



7-AUG-2024 17:15 p:\jmt-pw-bentley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\GR Files\GR - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024- UPPER PIKE CREEK  
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	<b>N295</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**GUARDRAIL PLANS**

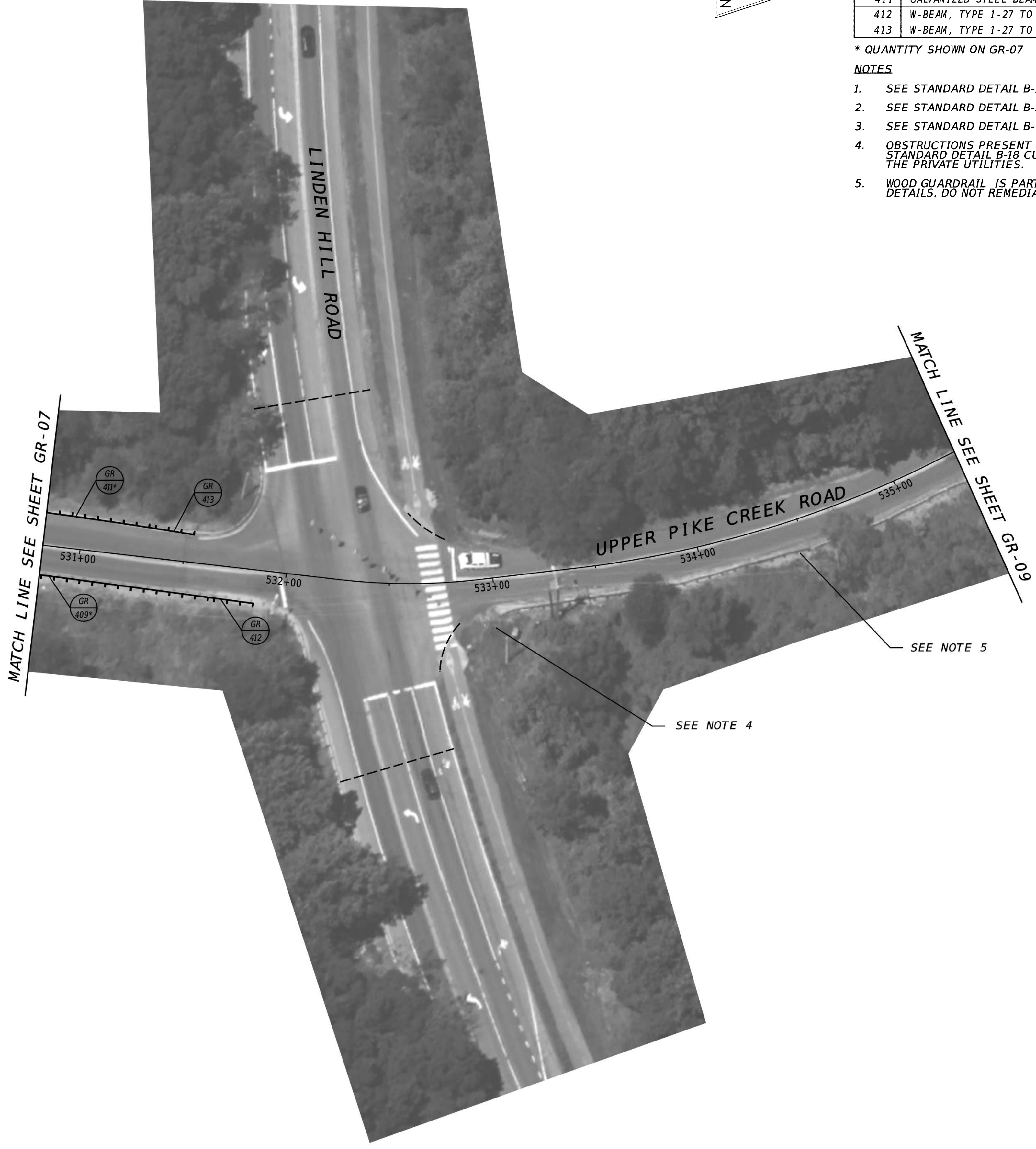
<b>GR-07</b>
SECTION
JMT
SHEET NO.
49

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
409	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	524+95.33	14.25	*
411	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31, STEEP SLOPE	527+77.27	13.17	*
412	W-BEAM, TYPE 1-27 TO TYPE 1-31 TRANSITION SECTION	527+57.59	15.53	24.00
413	W-BEAM, TYPE 1-27 TO TYPE 1-31 TRANSITION SECTION	531+25.55	14.64	24.00

\* QUANTITY SHOWN ON GR-07

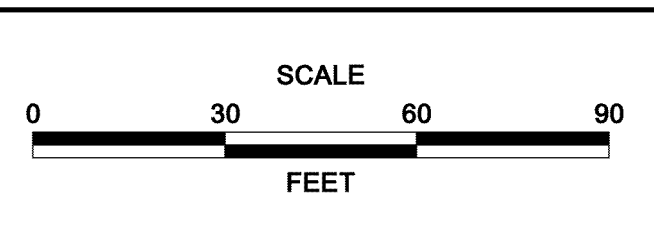
**NOTES**

- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION, STEEP SLOPE.
- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
- SEE STANDARD DETAIL B-7, TYPE 1-27 TO TYPE 1-31 TRANSITION SECTION.
- OBSTRUCTIONS PRESENT WITHIN THE EXISTING CURVED GUARDRAIL SECTION. REMEDIATION TO MEET STANDARD DETAIL B-18 CURVED GUARDRAIL SECTION 1-27 IS NOT POSSIBLE WITHOUT RELOCATION OF THE PRIVATE UTILITIES.
- WOOD GUARDRAIL IS PART OF WHITE CLAY STATE PARK. GUARDRAIL DOES NOT MEET DELDOT STANDARD DETAILS. DO NOT REMEDIATE.



7-AUG-2024 17:38 pwl/jmt-pw.bentley.com:jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/GR Files/GR - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024- UPPER PIKE CREEK  
ROAD/NORTH STAR ROAD**

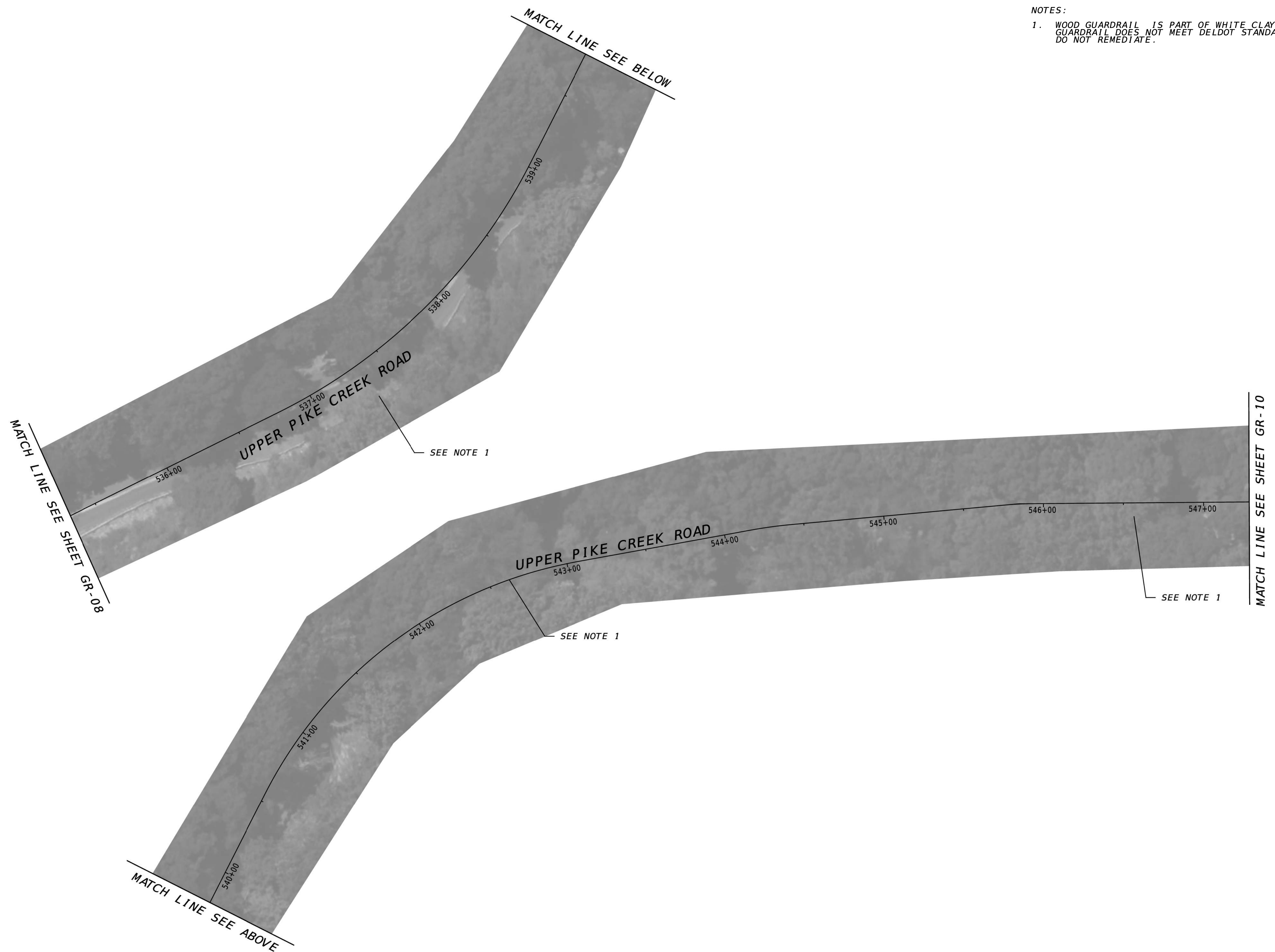
CONTRACT T202406101	ROAD NO. <b>N295</b>
COUNTY NEW CASTLE	DESIGNED BY: M. TAPLIN
	CHECKED BY: B. DOUGHERTY

**GUARDRAIL PLANS**

<b>GR-08</b>
SECTION JMT
SHEET NO. 50

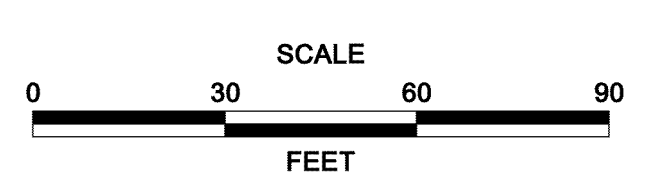
NOTES:

1. WOOD GUARDRAIL IS PART OF WHITE CLAY STATE PARK. GUARDRAIL DOES NOT MEET DELDOT STANDARD DETAILS. DO NOT REMEDIATE.



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ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION  
NORTH I, 2024- UPPER PIKE CREEK  
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	<b>N295</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**GUARDRAIL PLANS**

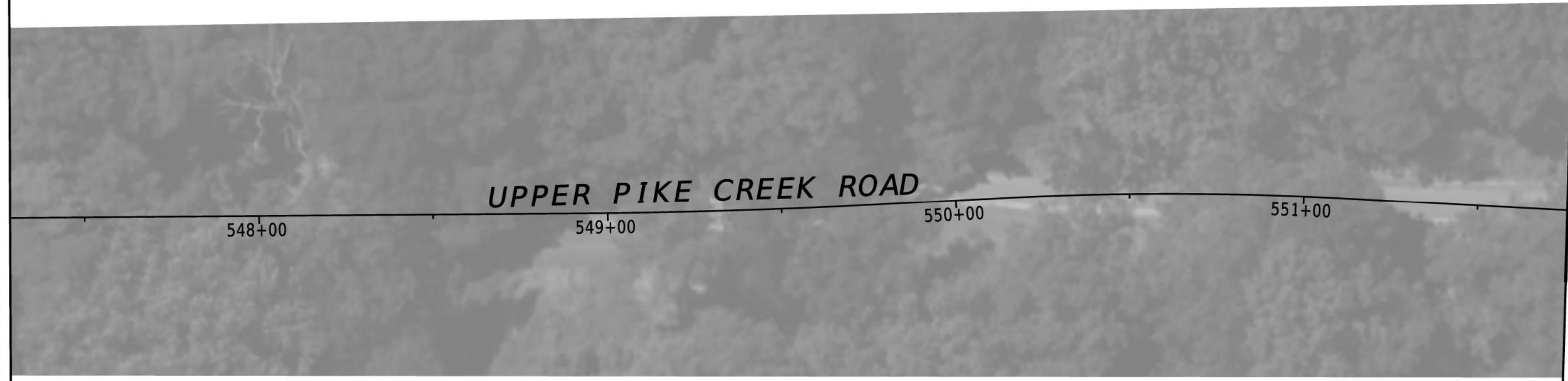
<b>GR-09</b>
SECTION
JMT
SHEET NO.
51

NOTES:

- WOOD GUARDRAIL IS PART OF WHITE CLAY STATE PARK. GUARDRAIL DOES NOT MEET DELDOT STANDARD DETAILS. DO NOT REMEDIATE.

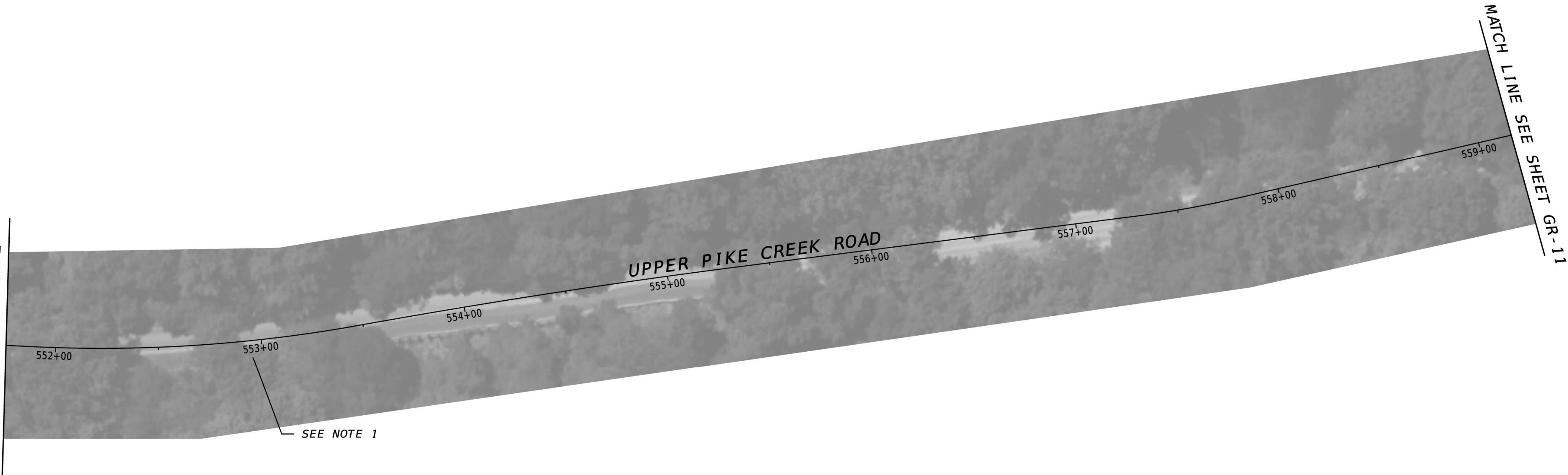


MATCH LINE SEE SHEET GR-09



MATCH LINE SEE BELOW

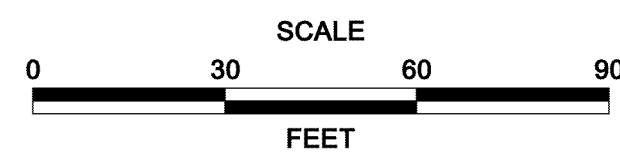
MATCH LINE SEE ABOVE



MATCH LINE SEE SHEET GR-11

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ADDENDUMS / REVISIONS

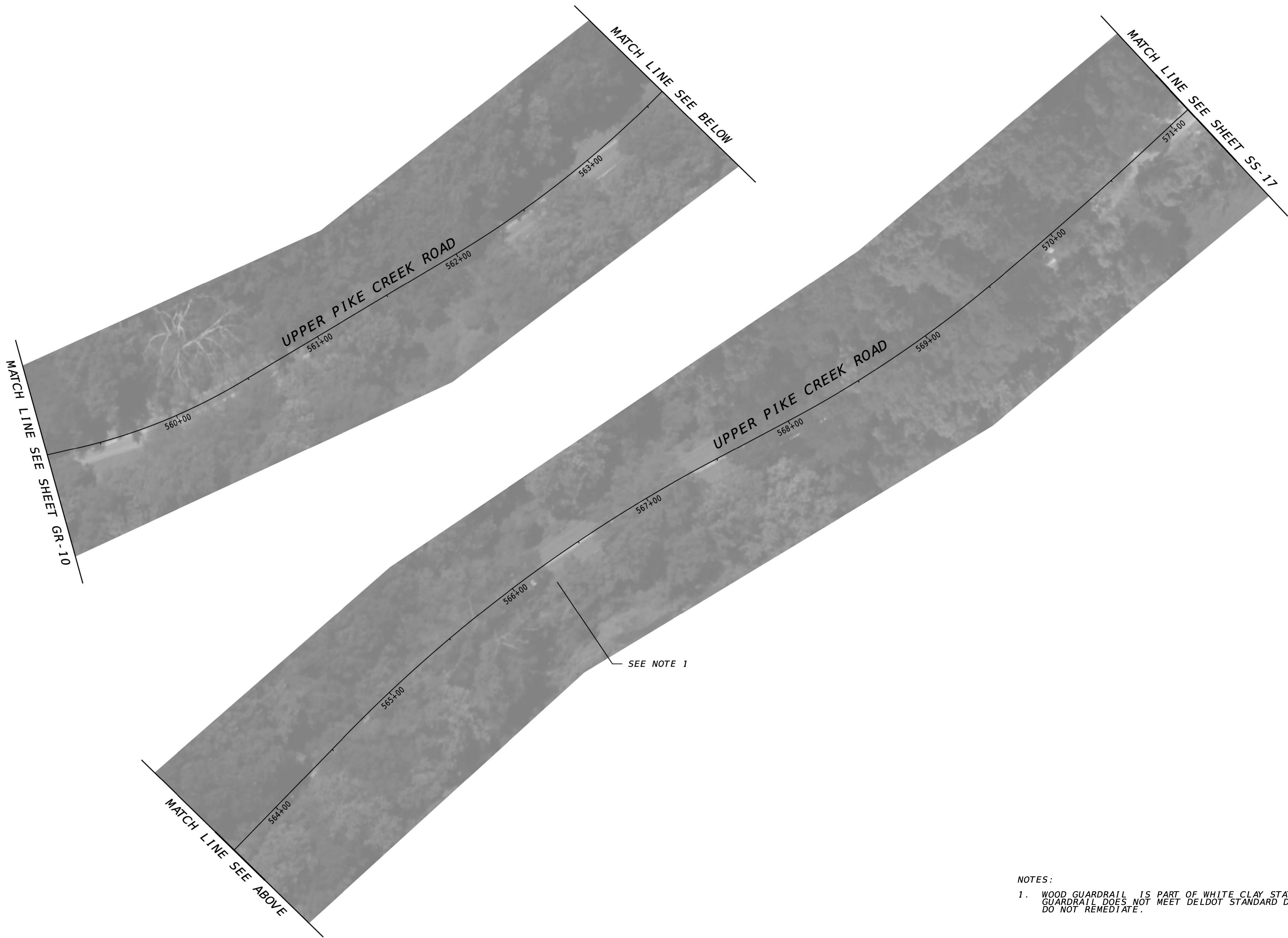
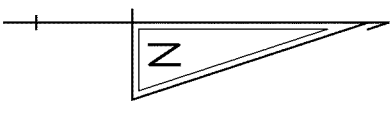


**PAVEMENT & REHABILITATION  
NORTH I, 2024- UPPER PIKE CREEK  
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	<b>N295</b>
T202406101	DESIGNED BY: M. TAPLIN	
COUNTY	CHECKED BY: B. DOUGHERTY	
NEW CASTLE		

**GUARDRAIL PLANS**

<b>GR-10</b>
SECTION
JMT
SHEET NO.
52

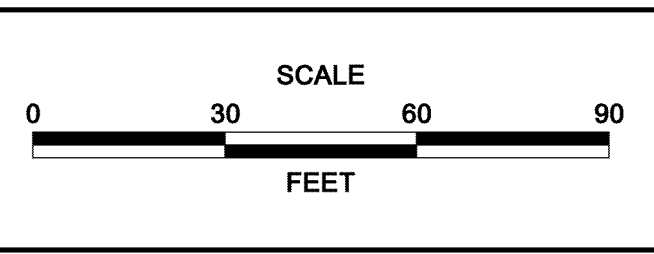


SEE NOTE 1

- NOTES:
- WOOD GUARDRAIL IS PART OF WHITE CLAY STATE PARK. GUARDRAIL DOES NOT MEET DELDOT STANDARD DETAILS. DO NOT REMEDIATE.

7-AUG-2024 17:19 p:\jmt\pw\benley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\GR Files\GR - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS	

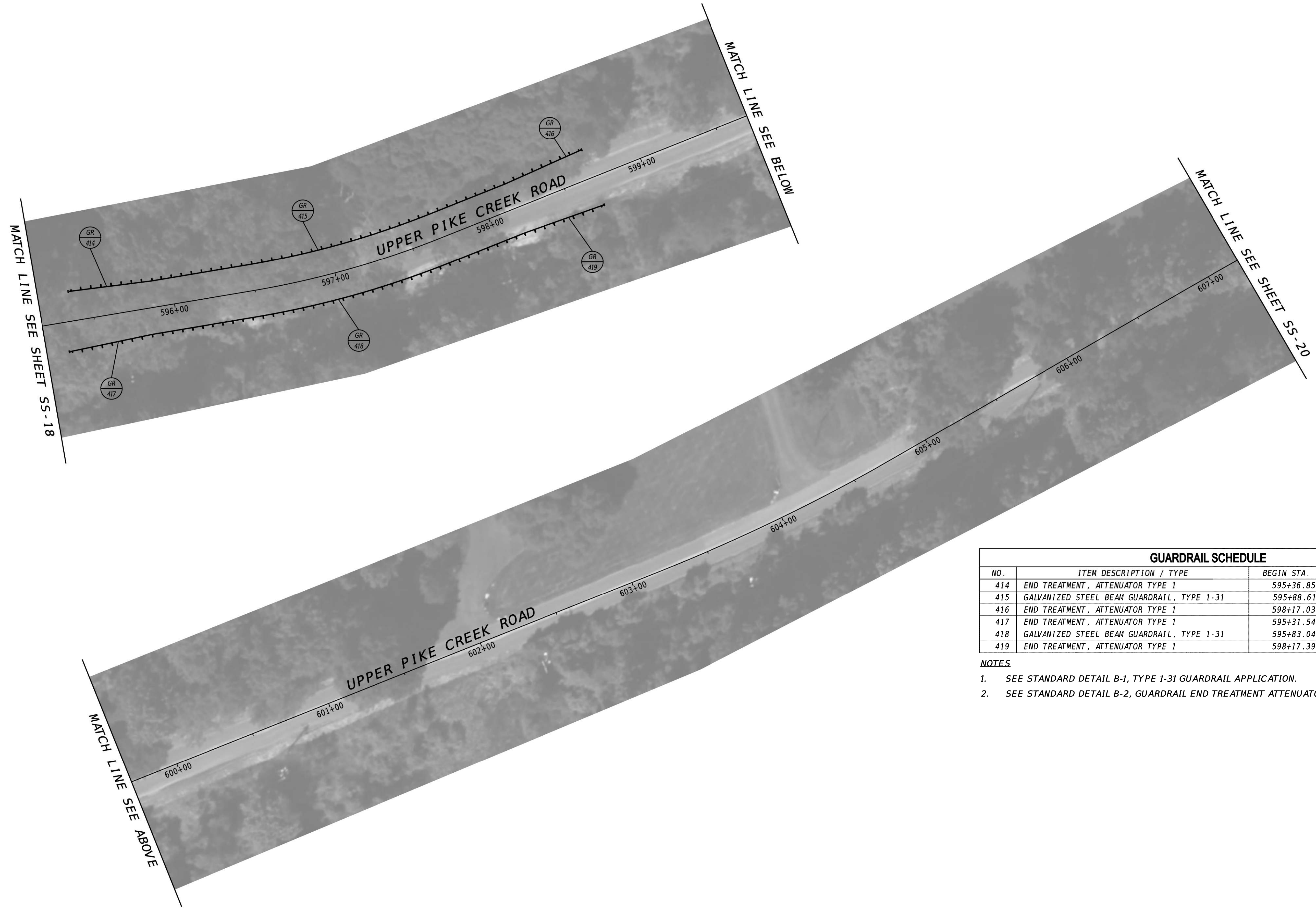
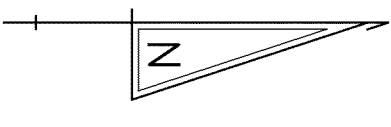


**PAVEMENT & REHABILITATION  
NORTH I, 2024- UPPER PIKE CREEK  
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	<b>N295</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

<b>GUARDRAIL PLANS</b>		SECTION
		JMT
SHEET NO.		53

GR-11
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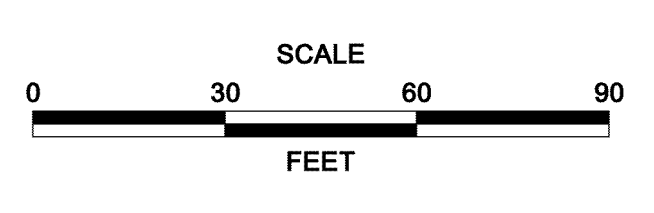


GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
414	END TREATMENT, ATTENUATOR TYPE 1	595+36.85	18.21	50.00
415	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	595+88.61	16.00	225.00
416	END TREATMENT, ATTENUATOR TYPE 1	598+17.03	16.00	50.00
417	END TREATMENT, ATTENUATOR TYPE 1	595+31.54	18.21	50.00
418	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	595+83.04	16.00	237.50
419	END TREATMENT, ATTENUATOR TYPE 1	598+17.39	16.00	50.00

- NOTES**
- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
  - SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.

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ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
 NORTH I, 2024- UPPER PIKE CREEK  
 ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	<b>N295</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

<b>GUARDRAIL PLANS</b>	
SECTION	JMT
SHEET NO.	54

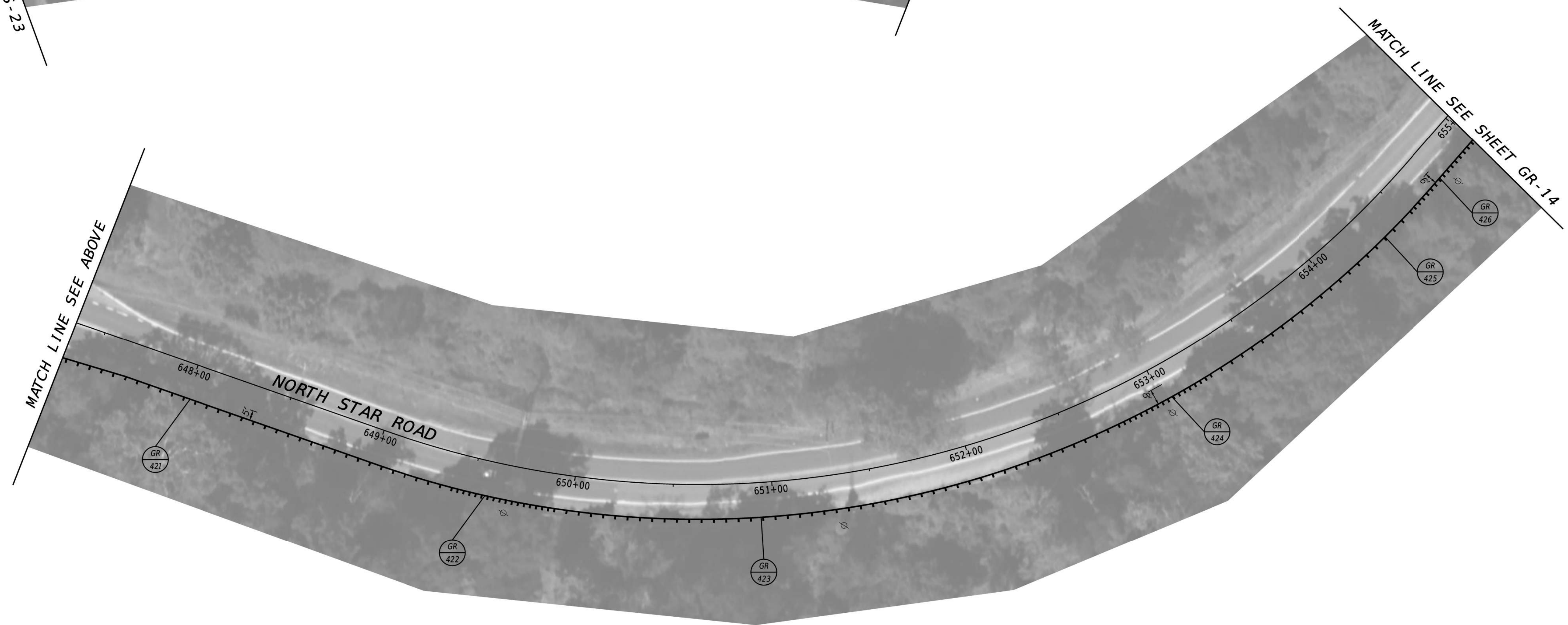
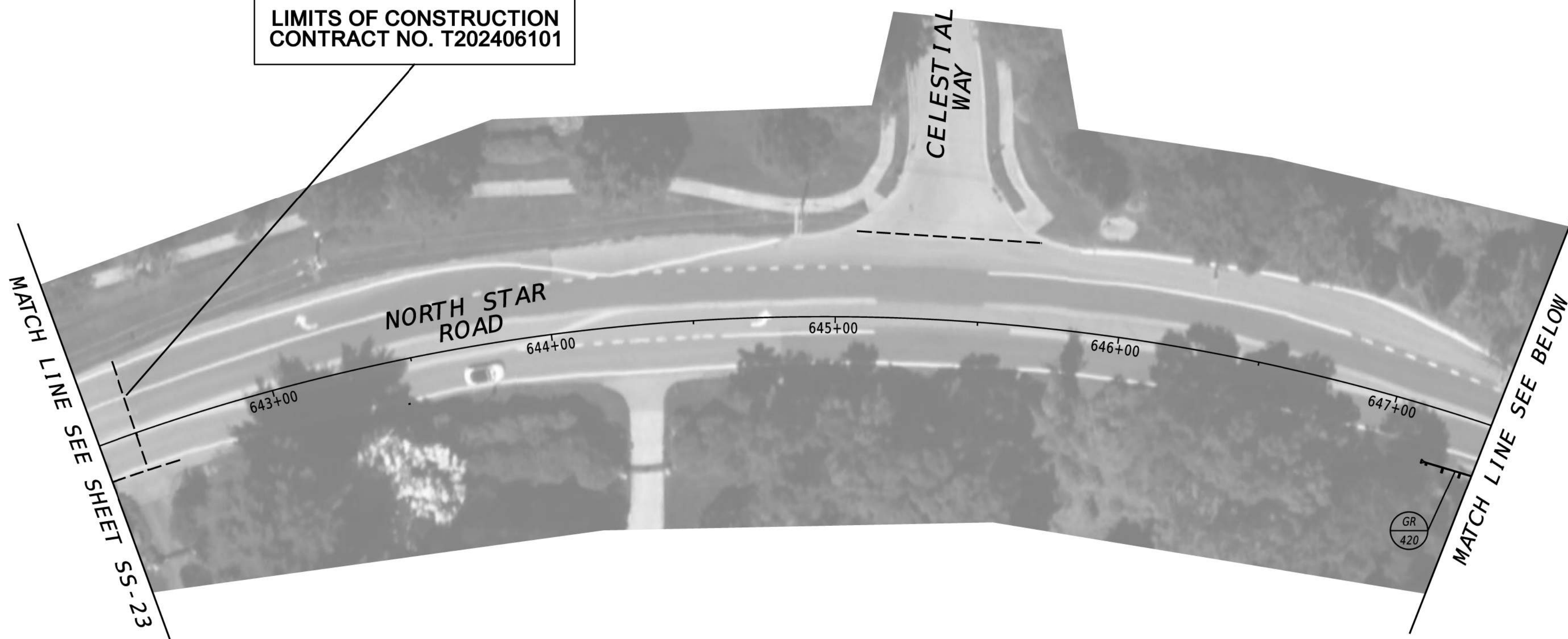
<b>GR-12</b>
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LIMITS OF CONSTRUCTION  
CONTRACT NO. T202406101

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
420	END TREATMENT, ATTENUATOR TYPE 1	647+14.70	20.00	50.00
421	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	647+67.22	17.50	175.00
422	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31	649+40.53	17.50	62.50
423	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	649+92.24	17.50	275.00
424	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31	652+74.98	17.50	62.50
425	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	653+26.68	17.50	125.00
426	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31	654+52.75	17.50	62.50

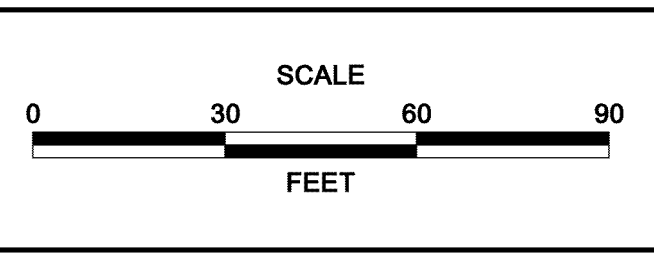


- NOTES
- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
  - SEE STANDARD DETAIL B-1, TYPE 2-31 GUARDRAIL APPLICATION.
  - SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.



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ADDENDUMS / REVISIONS

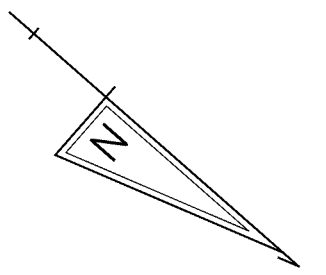


**PAVEMENT & REHABILITATION**  
**NORTH I, 2024- UPPER PIKE CREEK**  
**ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	<b>N295</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**GUARDRAIL PLANS**

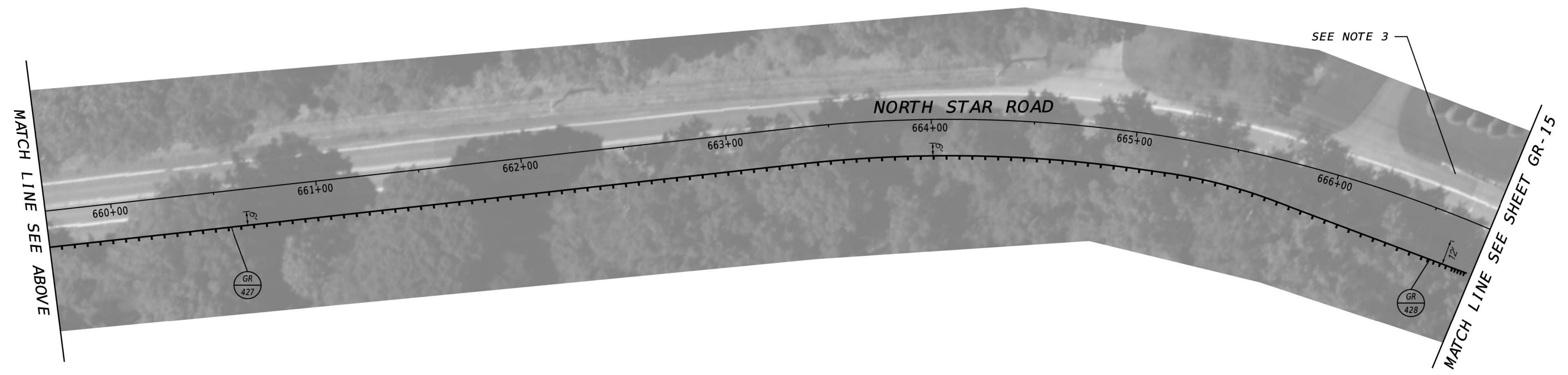
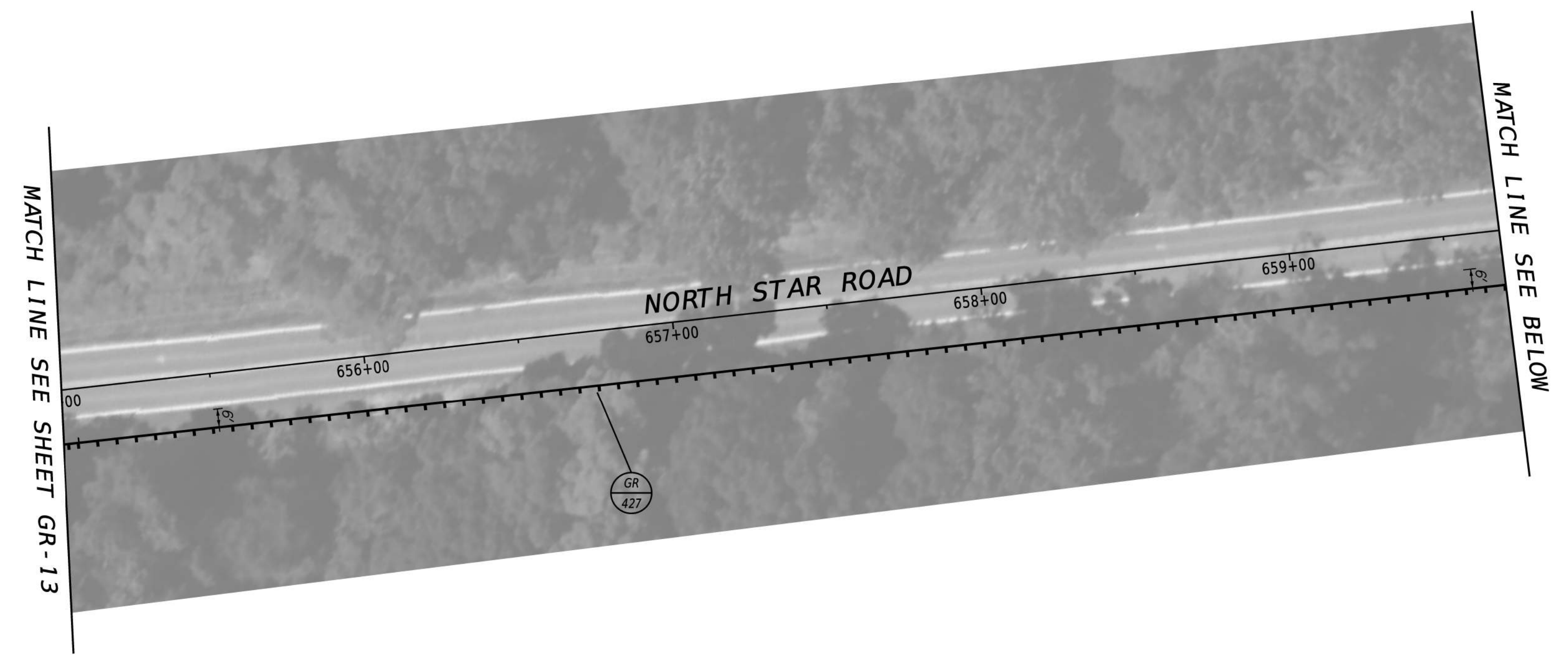
<b>GR-13</b>
SECTION
JMT
SHEET NO.
55



GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
427	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	654+38.34	20.00	1150.00
428	GUARDRAIL TO BARRIER CONNECTION - APPROACH TYPE 1-31	654+38.34	20.00	35.00

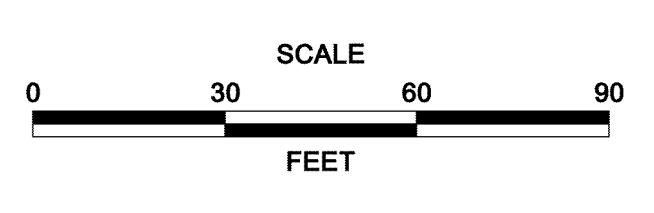
**NOTES**

- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
- SEE STANDARD DETAIL B-8, GUARDRAIL TO BARRIER CONNECTION - APPROACH TYPE 1-31
- EXISTING CONDITIONS WILL NOT ALLOW GUARDRAIL TO MEET DELDOT'S STANDARD DETAILS. ADJUSTING RESIDENTIAL DRIVEWAY IS OUTSIDE THE SCOPE OF THE PAVEMENT AND REHABILITATION PROJECTS.



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ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024- UPPER PIKE CREEK  
ROAD/NORTH STAR ROAD**

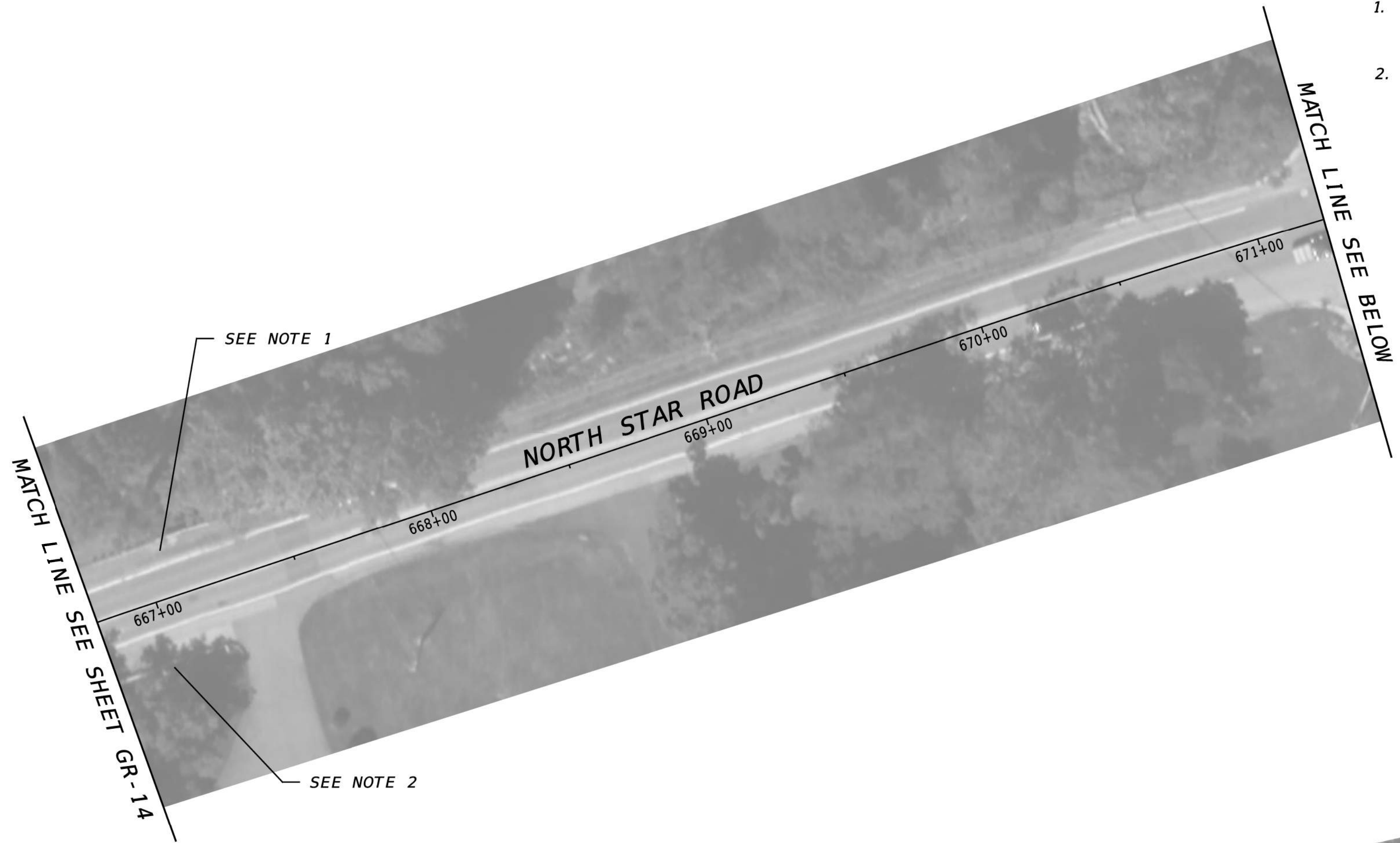
CONTRACT	ROAD NO.	<b>N295</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

<b>GUARDRAIL PLANS</b>
SECTION
JMT
SHEET NO.
56

<b>GR-14</b>
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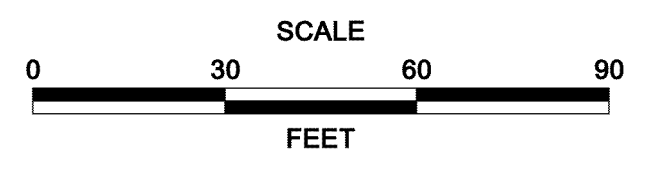
**NOTES**

1. EXISTING GUARDRAIL IS LESS THAN 31". EXISTING CHANGES IN GRADE PROHIBIT THE UPGRADE OF THE GUARDRAIL TO BE COMPLIANT WITH MASH STANDARD AND DELDOT'S STANDARD GUARDRAIL DETAILS. REGRADING OF THE AREA TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF OF THE PAVEMENT & REHABILITATION PROJECT.
2. EXISTING CONDITIONS WILL NOT ALLOW GUARDRAIL TO MEET DELDOT'S STANDARD GUARDRAIL DETAILS. ADJUSTING THE RESIDENTIAL DRIVEWAY TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF OF THE PAVEMENT & REHABILITATION PROJECT.



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ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024- UPPER PIKE CREEK  
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	<b>N295</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**GUARDRAIL PLANS**

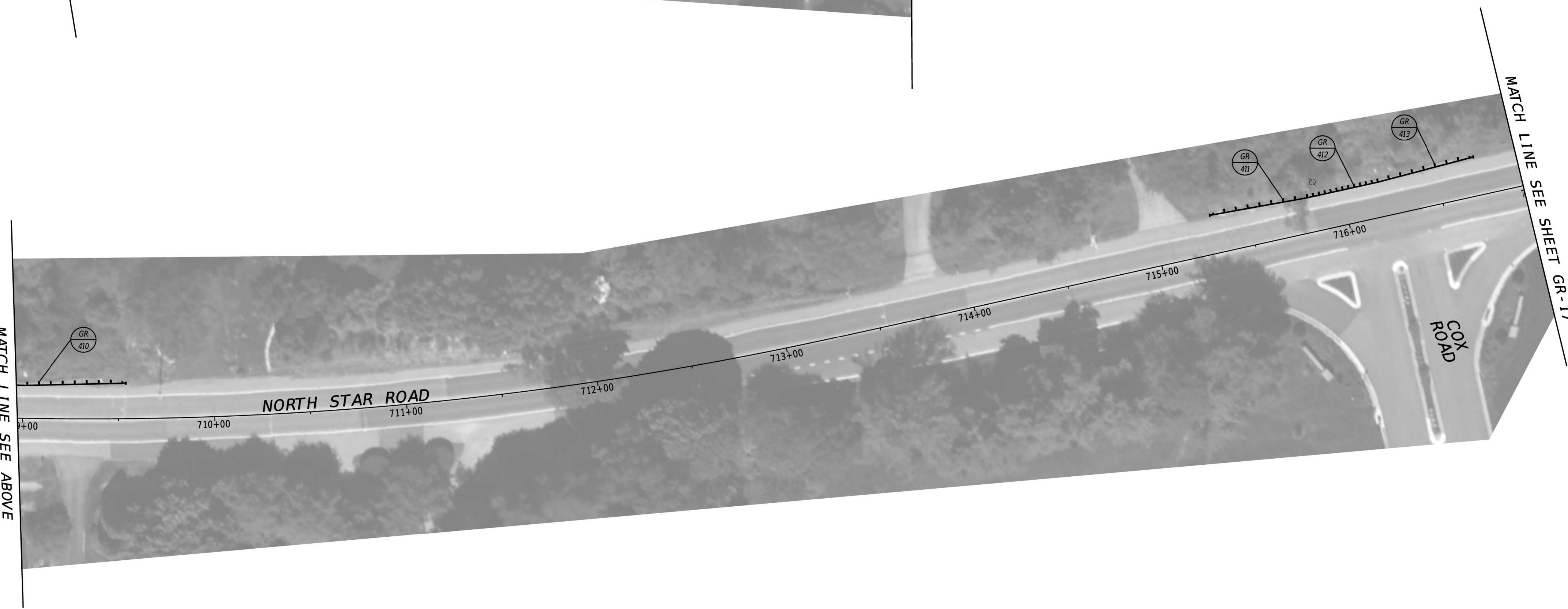
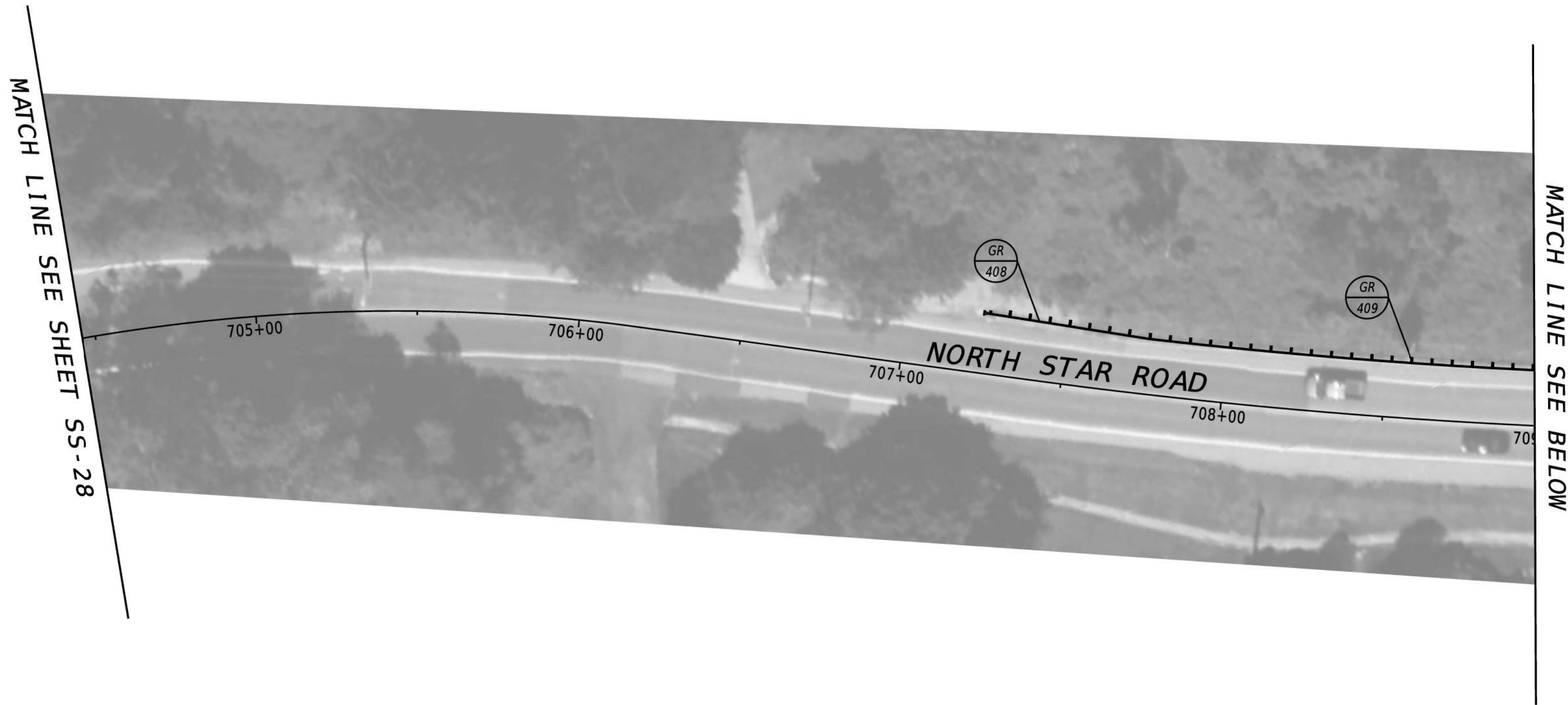
<b>GR-15</b>
SECTION
JMT
SHEET NO.
57



GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
408	END TREATMENT, ATTENUATOR TYPE 1	707+23.62	18.76	50.00
409	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31, STEEP SLOPE	707+75.70	17.00	125.00
410	END TREATMENT, ATTENUATOR TYPE 1	709+01.91	17.00	50.00
411	END TREATMENT, ATTENUATOR TYPE 1	715+29.30	20.25	50.00
412	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31	715+81.29	18.00	37.50
413	END TREATMENT, ATTENUATOR TYPE 1	716+19.02	18.00	50.00

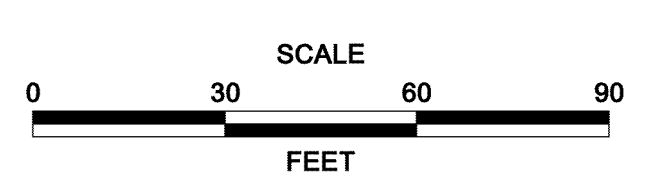
**NOTES**

1. SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
2. SEE STANDARD DETAIL B-1, TYPE 2-31 GUARDRAIL APPLICATION.
3. SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION, STEEP SLOPES.
4. SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.



7-AUG-2024 17:27 p:\jmt-pw-bentley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\GR Files\GR - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS



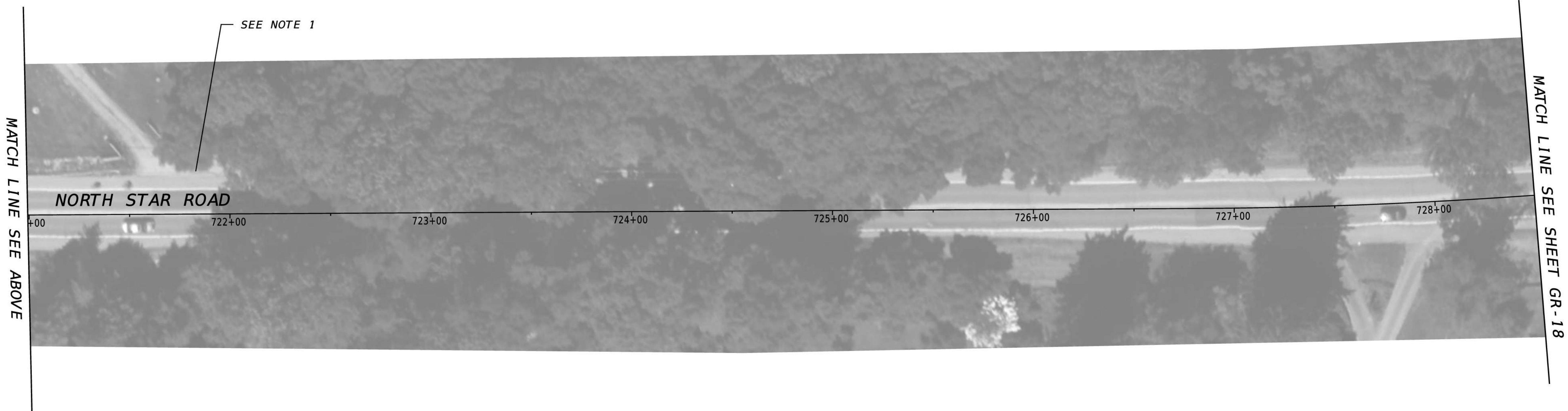
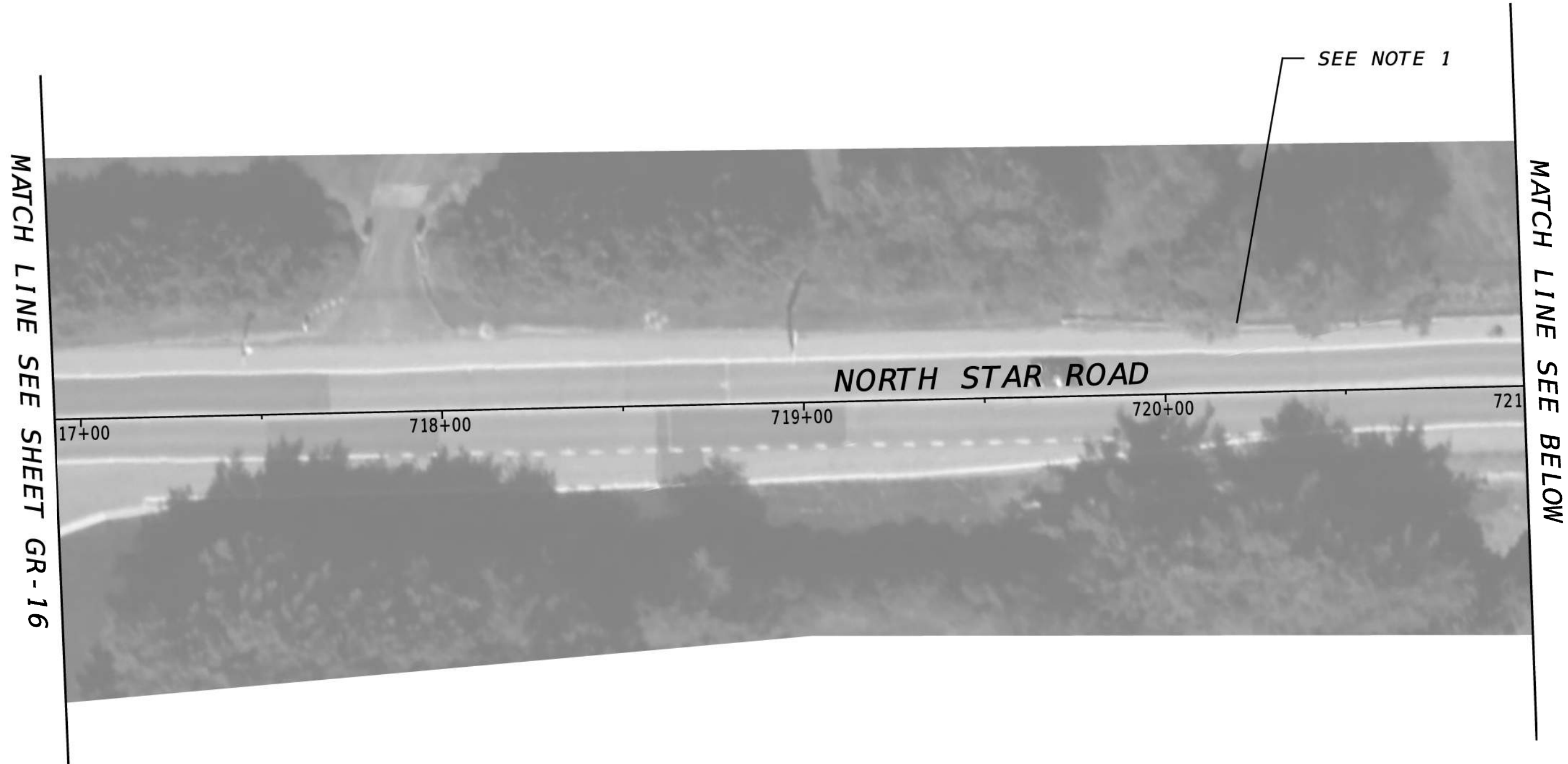
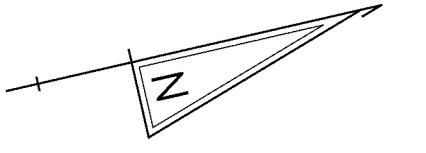
**PAVEMENT & REHABILITATION**  
**NORTH I, 2024- UPPER PIKE CREEK**  
**ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	<b>N295</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**GUARDRAIL PLANS**  
 SECTION  
 JMT  
 SHEET NO.  
 58

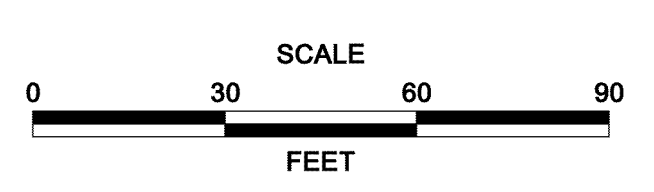
**NOTES**

1. EXISTING GUARDRAIL IS LESS THAN 31". EXISTING CHANGES IN GRADE PROHIBIT THE UPGRADE OF THE GUARDRAIL TO BE COMPLIANT WITH MASH STANDARD AND DELDOT'S STANDARD GUARDRAIL DETAILS. REGRADING OF THE AREA TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF OF THE PAVEMENT & REHABILITATION PROJECT.



7-AUG-2024 17:28 p:\jmt\pw\benley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\GR Files\GR - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION  
NORTH I, 2024- UPPER PIKE CREEK  
ROAD/NORTH STAR ROAD**

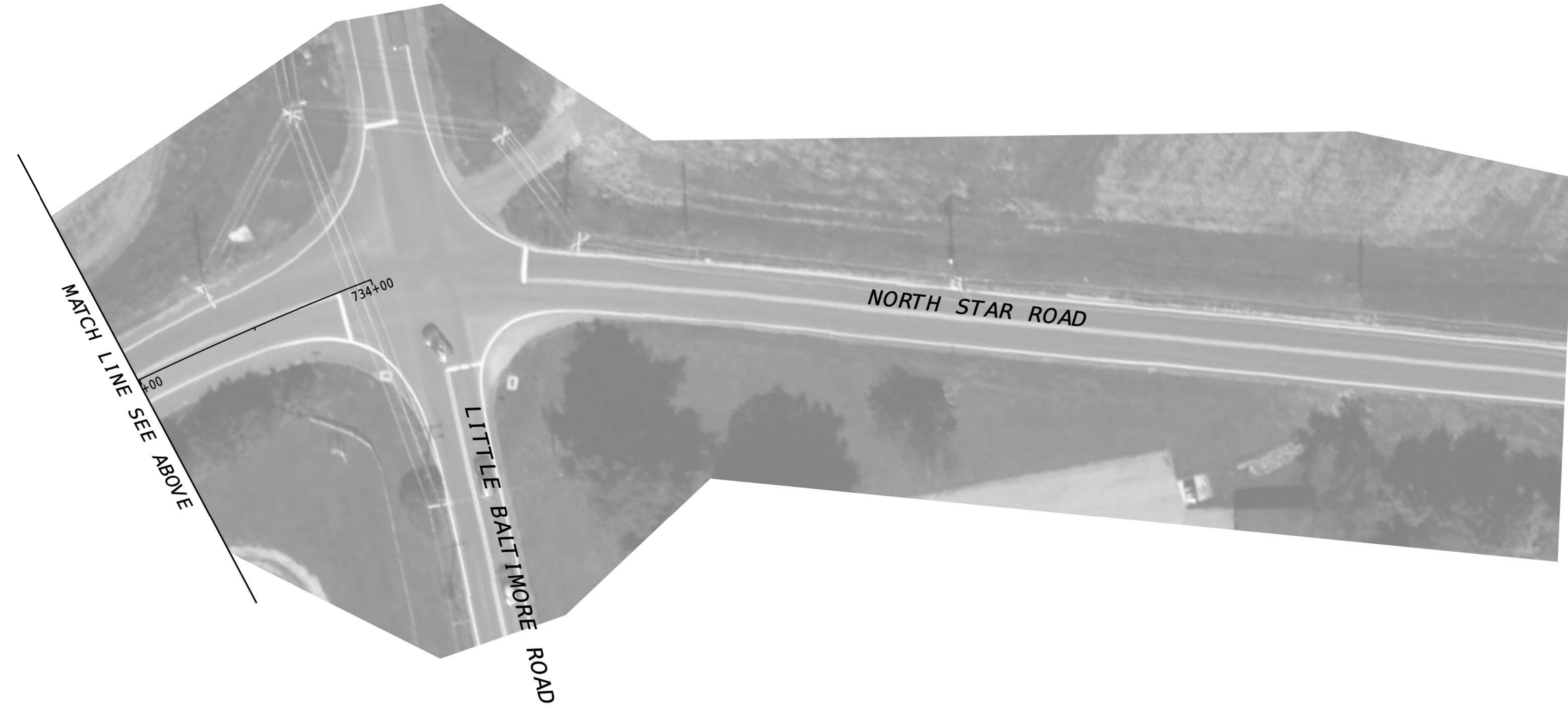
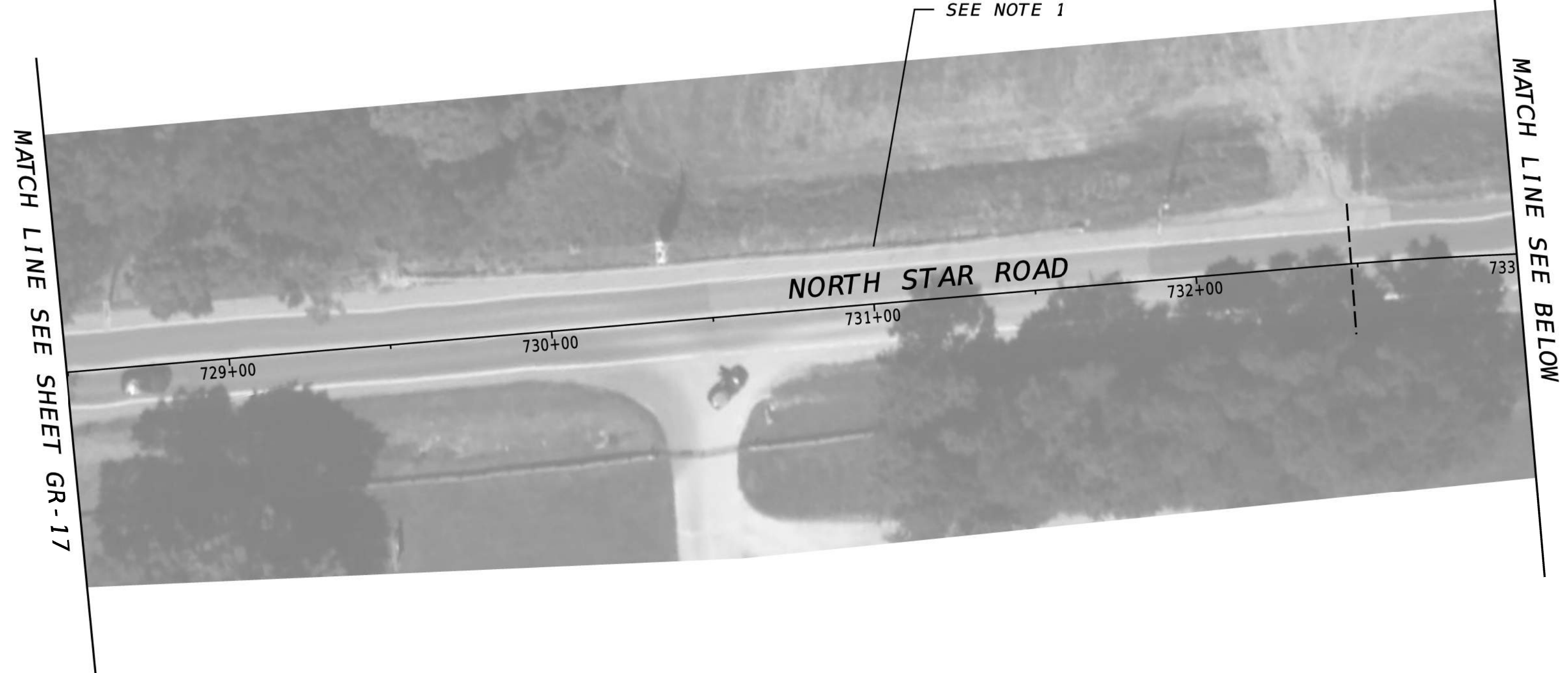
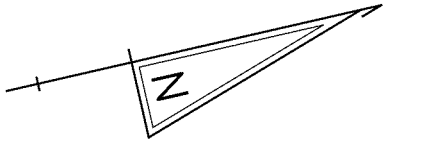
CONTRACT	ROAD NO.	<b>N295</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**GUARDRAIL PLANS**

<b>GR-17</b>
SECTION
JMT
SHEET NO.
59

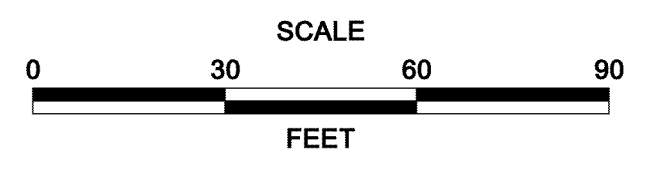
**NOTES**

- EXISTING GUARDRAIL IS LESS THAN 31". EXISTING CHANGES IN GRADE PROHIBIT THE UPGRADE OF THE GUARDRAIL TO BE COMPLIANT WITH MASH STANDARD AND DELDOT'S STANDARD GUARDRAIL DETAILS. REGRADING OF THE AREA TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF OF THE PAVEMENT & REHABILITATION PROJECT.



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ADDENDUMS / REVISIONS

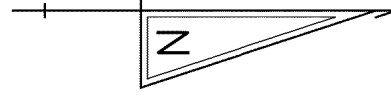


**PAVEMENT & REHABILITATION  
NORTH I, 2024- UPPER PIKE CREEK  
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	<b>N295</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**GUARDRAIL PLANS**

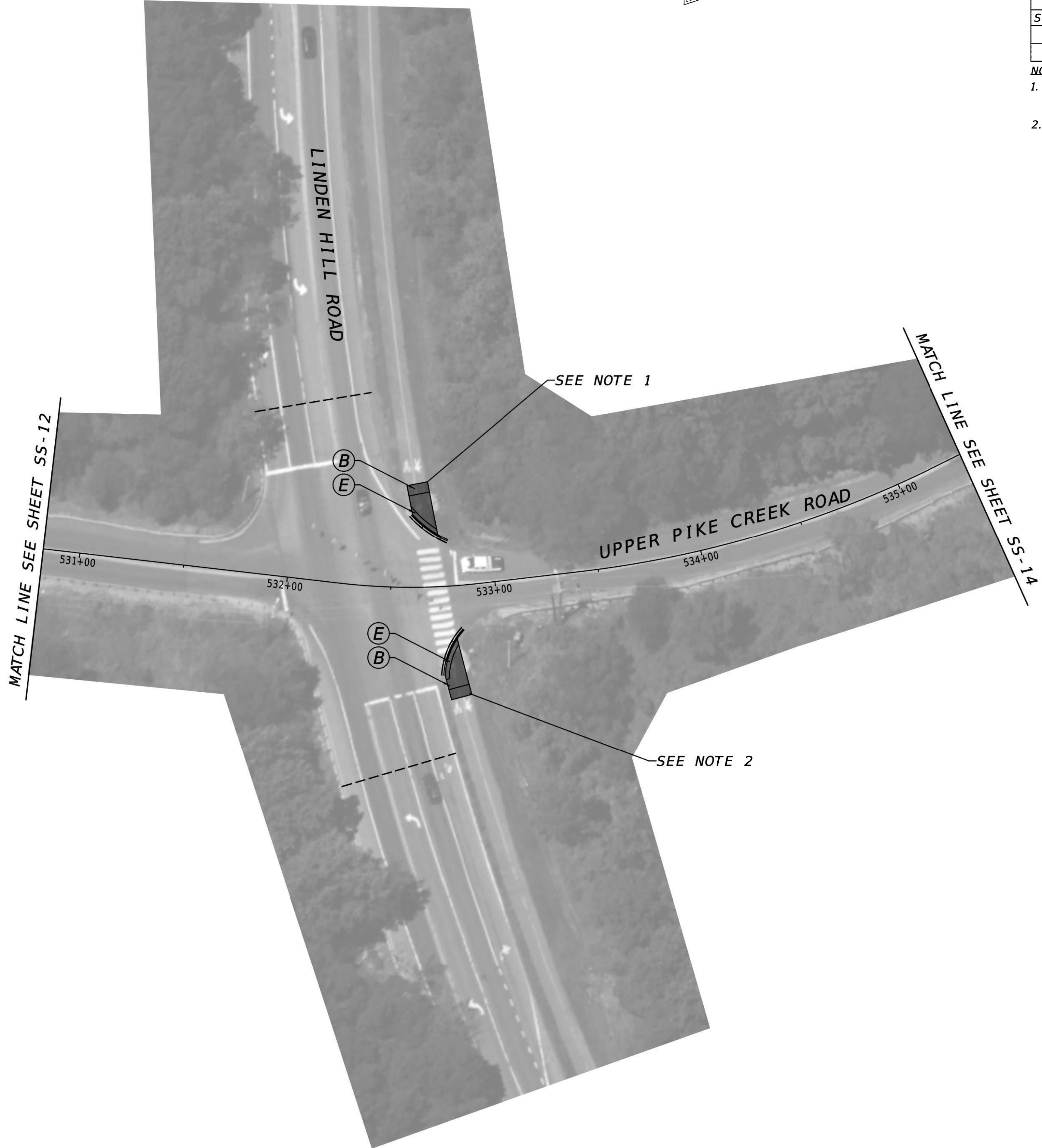
<b>GR-18</b>
SECTION
JMT
SHEET NO.
60



SYMBOL	ITEM
(B)	BLENDED TRANSITION/ SIDEWALK - RUNNING SLOPES MAY NOT EXCEED 5%
(E)	DETECTABLE WARNING SURFACE

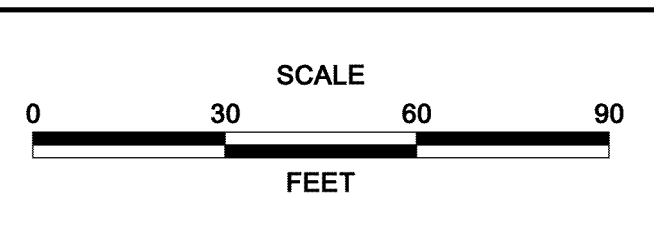
**NOTES**

1. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES (5%) WITHIN THE BLENDED TRANSITION EXCEEDING THE ALLOWABLE 2% FOR PEDESTRIAN CONNECTIONS WITH STOP OR YIELD CONTROL.
2. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES (4%) WITHIN THE BLENDED TRANSITION EXCEEDING THE ALLOWABLE 2% FOR PEDESTRIAN CONNECTIONS WITH STOP OR YIELD CONTROL.



7-AUG-2024 22:59 pwt/jmt/pw.bentley.com/jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/ADA Design/PR - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS



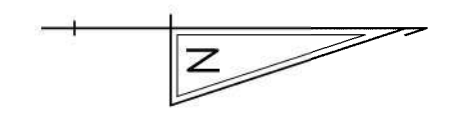
**PAVEMENT & REHABILITATION  
NORTH I - UPPER PIKE CREEK  
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	<b>N295</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**PEDESTRIAN  
IMPROVEMENT  
PLAN**

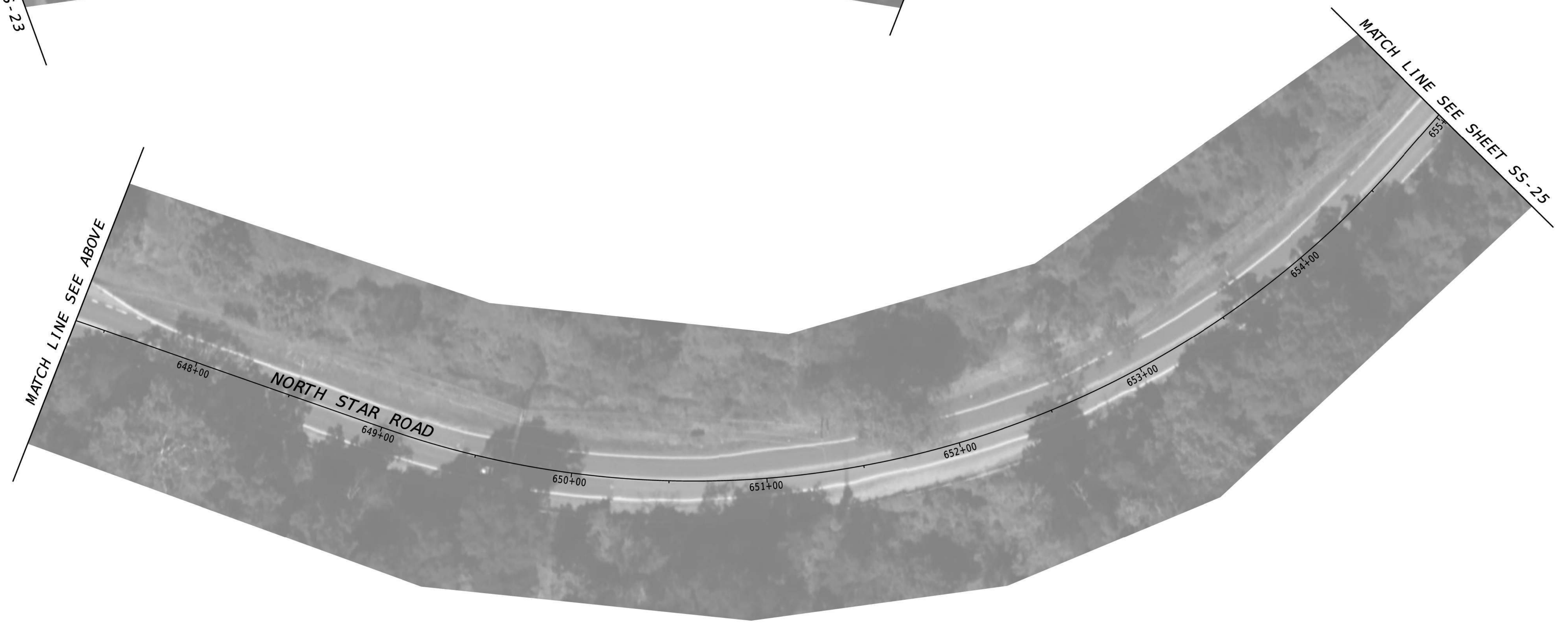
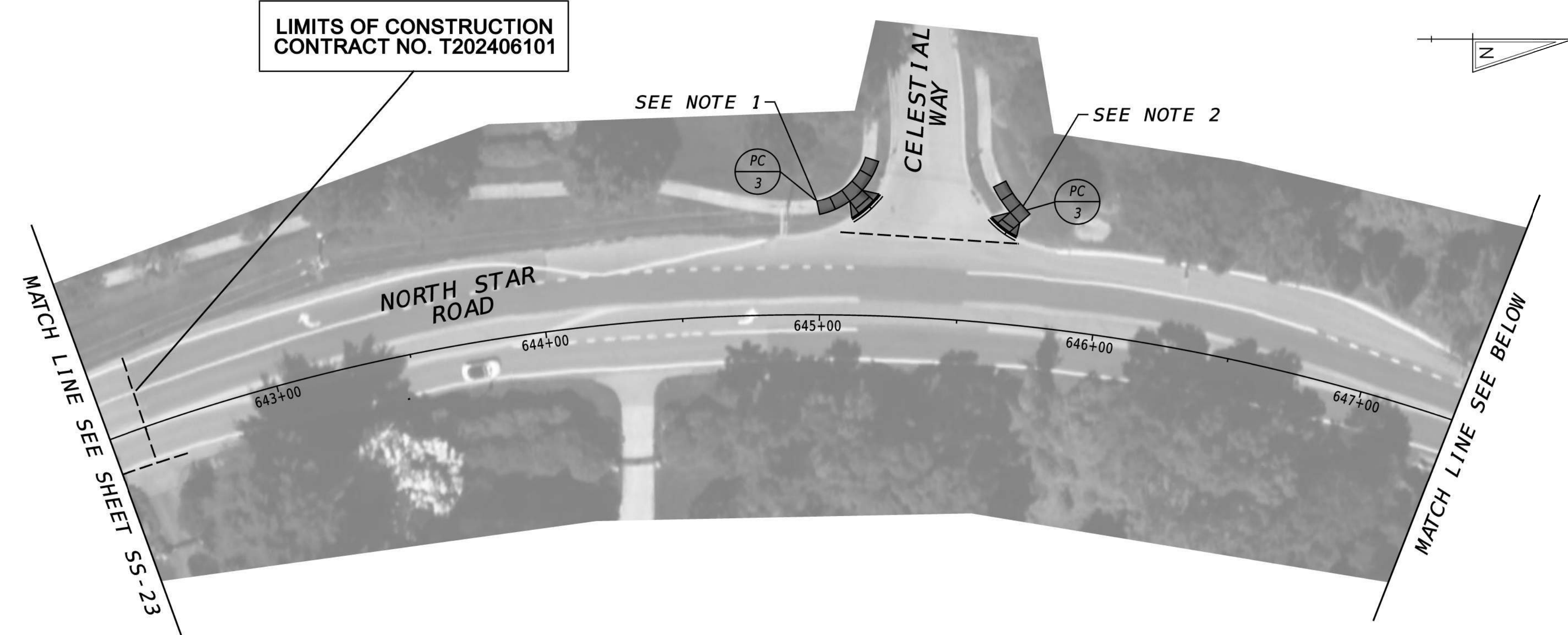
PIP-07
SECTION
JMT
SHEET NO.
61

LIMITS OF CONSTRUCTION  
CONTRACT NO. T202406101



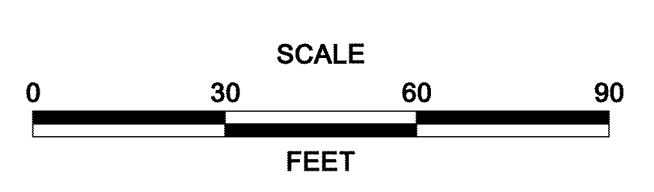
**NOTES**

1. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES (8.8%) WITHIN THE RAMP SEGMENT EXCEEDING THE ALLOWABLE 2% FOR PEDESTRIAN CONNECTIONS WITH STOP OR YIELD CONTROL.
2. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES (6.1%) WITHIN THE RAMP SEGMENT EXCEEDING THE ALLOWABLE 2% FOR PEDESTRIAN CONNECTIONS WITH STOP OR YIELD CONTROL, AND COUNTER SLOPE (18%) EXCEEDING THE ALLOWABLE 5%.



7-AUG-2024 2:30:00 pwt:/jmt-pw-bentley.com/jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/ADA Design/PR - Upper Pike Creek Rd\_North Star Rd.dgn

ADDENDUMS / REVISIONS



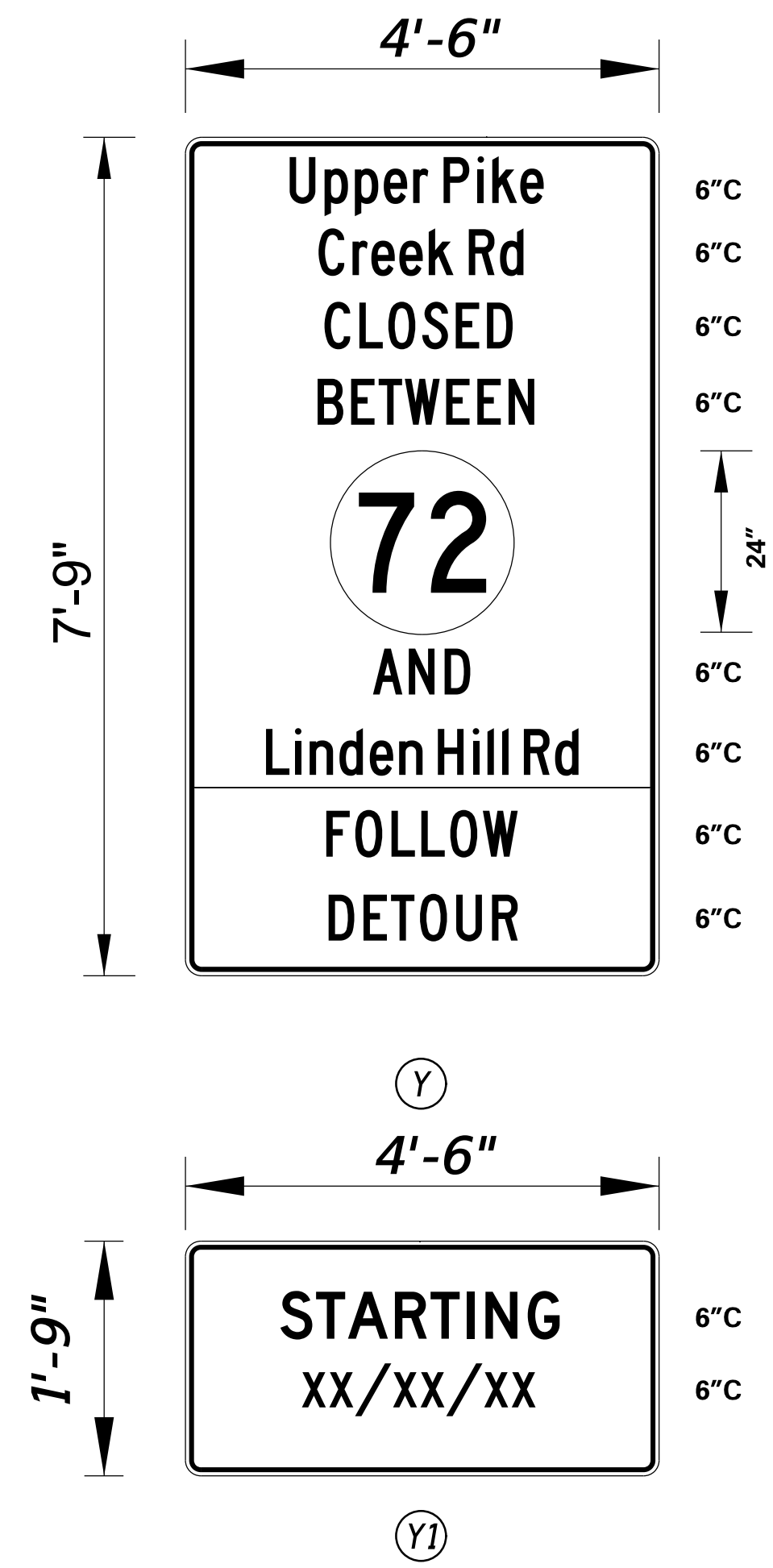
**PAVEMENT & REHABILITATION  
NORTH I - UPPER PIKE CREEK  
ROAD/NORTH STAR ROAD**

CONTRACT	ROAD NO.	<b>N295</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**PEDESTRIAN  
IMPROVEMENT  
PLAN**

PIP-08
SECTION
JMT
SHEET NO.
62

**SPECIAL SIGNS**



- ALL SIGNS SHALL BE BLACK ON RETROREFLECTIVE PRISMATIC FLUORESCENT ORANGE.
- DISPLAY SIGN "Y" THAT INCLUDES THE "Y1" PLAQUES AT CLOSURE POINT LOCATIONS FOR 10 DAYS PRIOR TO IMPLEMENTATION OF DETOUR
- "Y1" PLAQUE TO BE REMOVED AFTER IMPLEMENTATION OF DETOUR
- "Y1" PLAQUE TO COMPLETELY COVER 'FOLLOW DETOUR' LEGEND OF "Y" SIGN
- THE FABRICATION OF SIGN "Y" AND "Y1" SHALL BE PAID UNDER ITEM #818001. THE INSTALLATION AND REMOVAL OF THE SIGNS SHALL BE INCIDENTAL TO THE ITEM #818001. THE FURNISHING OF THE SIGN POSTS SHALL BE INCIDENTAL TO ITEM #818001.

PREPARED BY  
JMT

*James D. Smith Jr.*

2/1/2024  
DATE



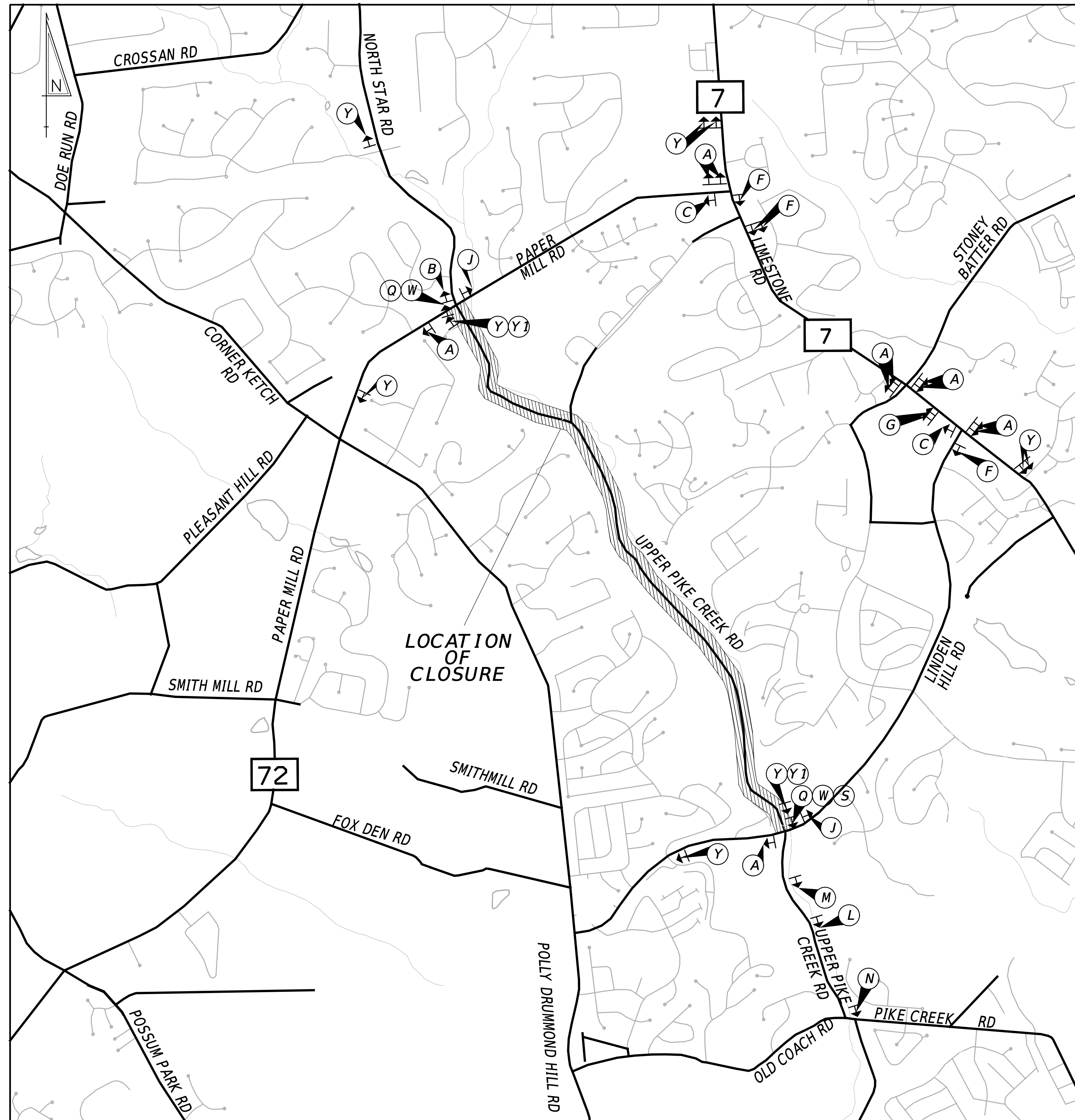
SEAL

*Mir Ali Wahed*

2/1/2024  
DATE

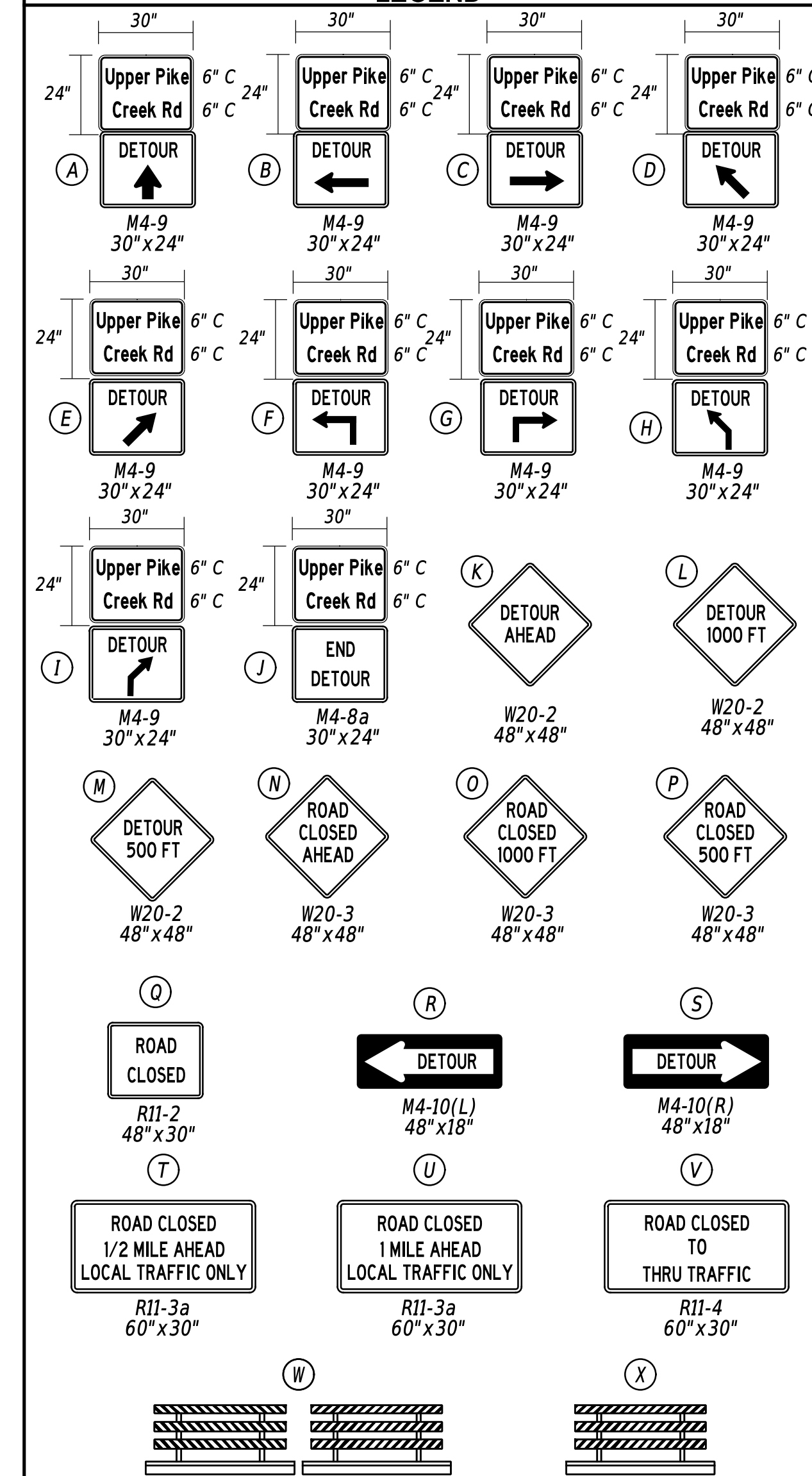
QA/QC

\*I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS DETOUR PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.\*



ACCESS TO RESIDENTIAL AND COMMERCIAL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. DETOUR IS INTENDED FOR NON-LOCAL TRAFFIC. THE INTERSECTION AT PAPER MILL ROAD AND UPPER PIKE CREEK ROAD/NORTH STAR ROAD MUST BE MAINTAINED DURING CONSTRUCTION.

**LEGEND**



**GENERAL NOTES**

1. ALL TEMPORARY TRAFFIC CONTROL DEVICES ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR AND SHALL BE IN COMPLIANCE WITH THIS PLAN AND THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD) LATEST EDITION.
2. "W" TYPE 3 BARRICADES AT A ROAD CLOSURE SHALL BE PLACED COMPLETELY ACROSS THE ROADWAY, FROM CURB TO CURB OR FROM EDGE OF ROAD TO EDGE OF ROAD, WITH THE STRIPES POSITIONED DOWNWARD TOWARD THE CENTER OF THE ROADWAY.
3. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.
4. "DETOUR" PLAQUES (M4-8), "ARROW" PLAQUES (M5/M6 SERIES) AND UPPER PIKE CREEK ROAD SIGNS SHALL BE BLACK LEGEND ON RETROREFLECTIVE PRISMATIC FLUORESCENT ORANGE BACKGROUND.

**DETOUR DESCRIPTION**

(TO BE USED ON ROAD CLOSURE NOTIFICATION AND TRAFFIC ALERT BY ENGINEER)

MOTORISTS WANTING TO TRAVEL NORTH ON UPPER PIKE CREEK ROAD WILL TURN RIGHT ONTO LINDEN HILL ROAD, TURN LEFT ONTO NORTHBOUND SR 7 (LIMESTONE ROAD), AND TURN LEFT ONTO PAPER MILL ROAD, RETURNING TO UPPER PIKE CREEK ROAD

MOTORISTS WANTING TO TRAVEL SOUTH ON UPPER PIKE CREEK ROAD WILL TURN LEFT ONTO PAPER MILL ROAD, TURN RIGHT ONTO SOUTHBOUND SR 7 (LIMESTONE ROAD), AND TURN RIGHT ONTO LINDEN HILL ROAD, RETURNING TO UPPER PIKE CREEK ROAD

**CONCURRENCE FOR IMPLEMENTATION**

*James Wynn*

2/2/2024

TRAFFIC SAFETY

DATE

ADDENDUMS / REVISIONS

NOT TO SCALE

PAVEMENT & REHABILITATION  
NORTH I, 2024  
UPPER PIKE CREEK ROAD

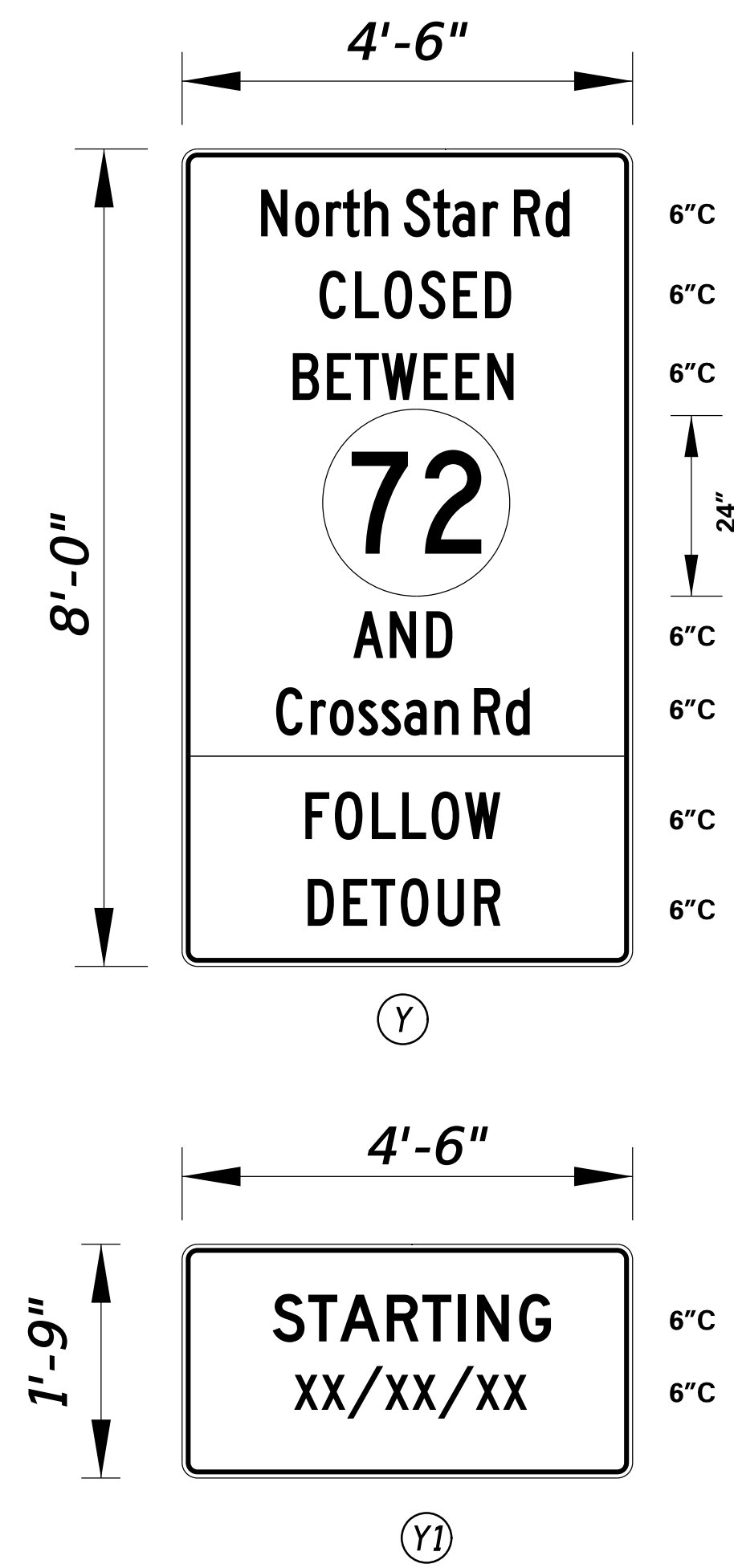
CONTRACT  
T202106001  
COUNTY  
NEW CASTLE

ROAD NO.  
N295  
DESIGNED BY: J. CLEM  
CHECKED BY: J. SMITH


DETOUR PLAN A -  
CLOSURE OF UPPER  
PIKE CREEK ROAD  
SOUTH OF SR 72

SECTION  
JMT  
SHEET NO.  
63

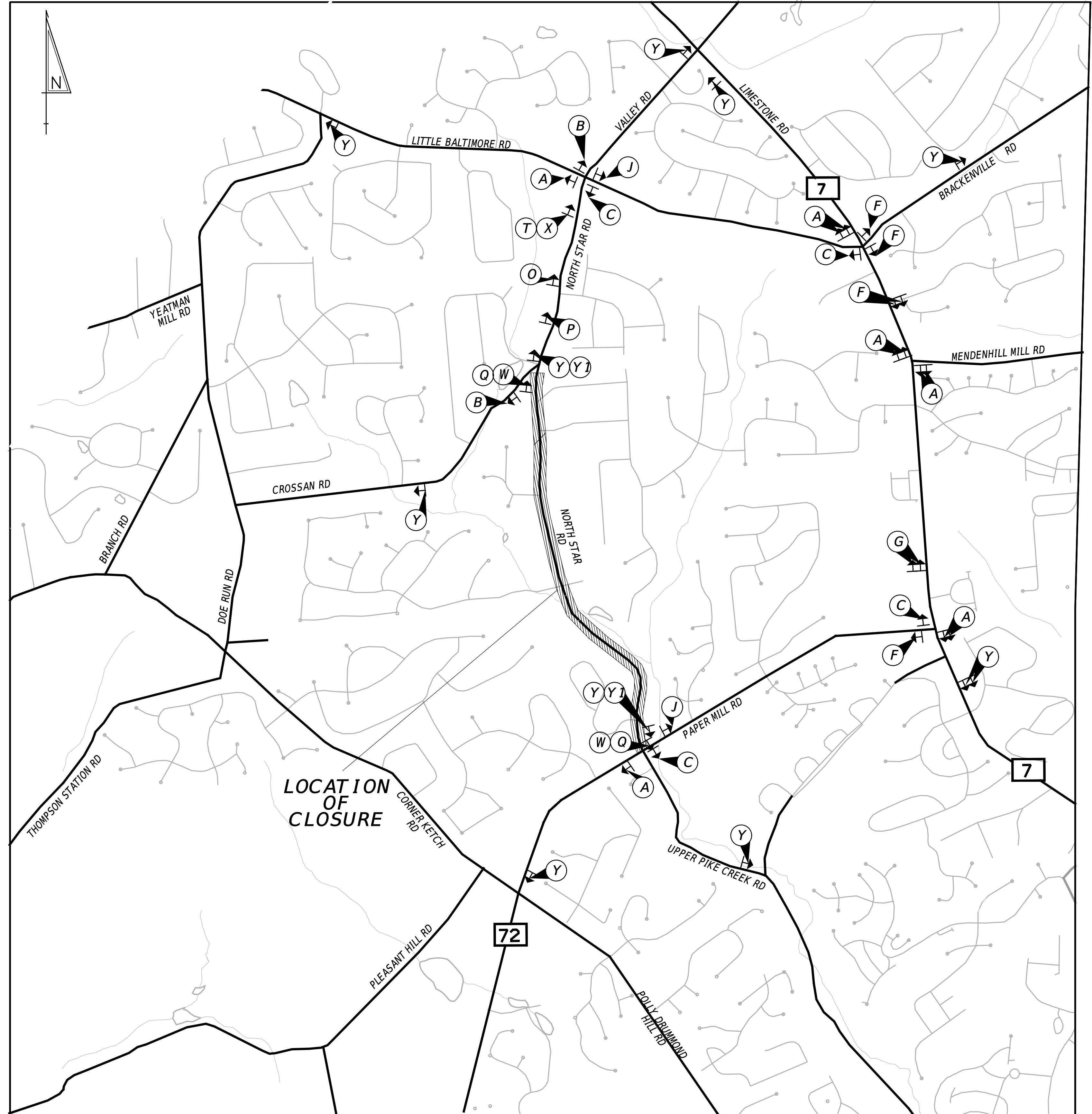
**SPECIAL SIGNS**



-ALL SIGNS SHALL BE BLACK ON RETROREFLECTIVE PRISMATIC FLUORESCENT ORANGE.  
 -DISPLAY SIGN "Y" THAT INCLUDES THE "Y1" PLAQUES AT CLOSURE POINT LOCATIONS FOR 10 DAYS PRIOR TO IMPLEMENTATION OF DETOUR  
 -"Y1" PLAQUE TO BE REMOVED AFTER IMPLEMENTATION OF DETOUR  
 -"Y1" PLAQUE TO COMPLETELY COVER "FOLLOW DETOUR" LEGEND OF (Y) SIGN  
 THE FABRICATION OF SIGN "Y" AND "Y1" SHALL BE PAID UNDER ITEM #818001. THE INSTALLATION AND REMOVAL OF THE SIGNS SHALL BE INCIDENTAL TO THE ITEM #818001. THE FURNISHING OF THE SIGN POSTS SHALL BE INCIDENTAL TO ITEM #818001.

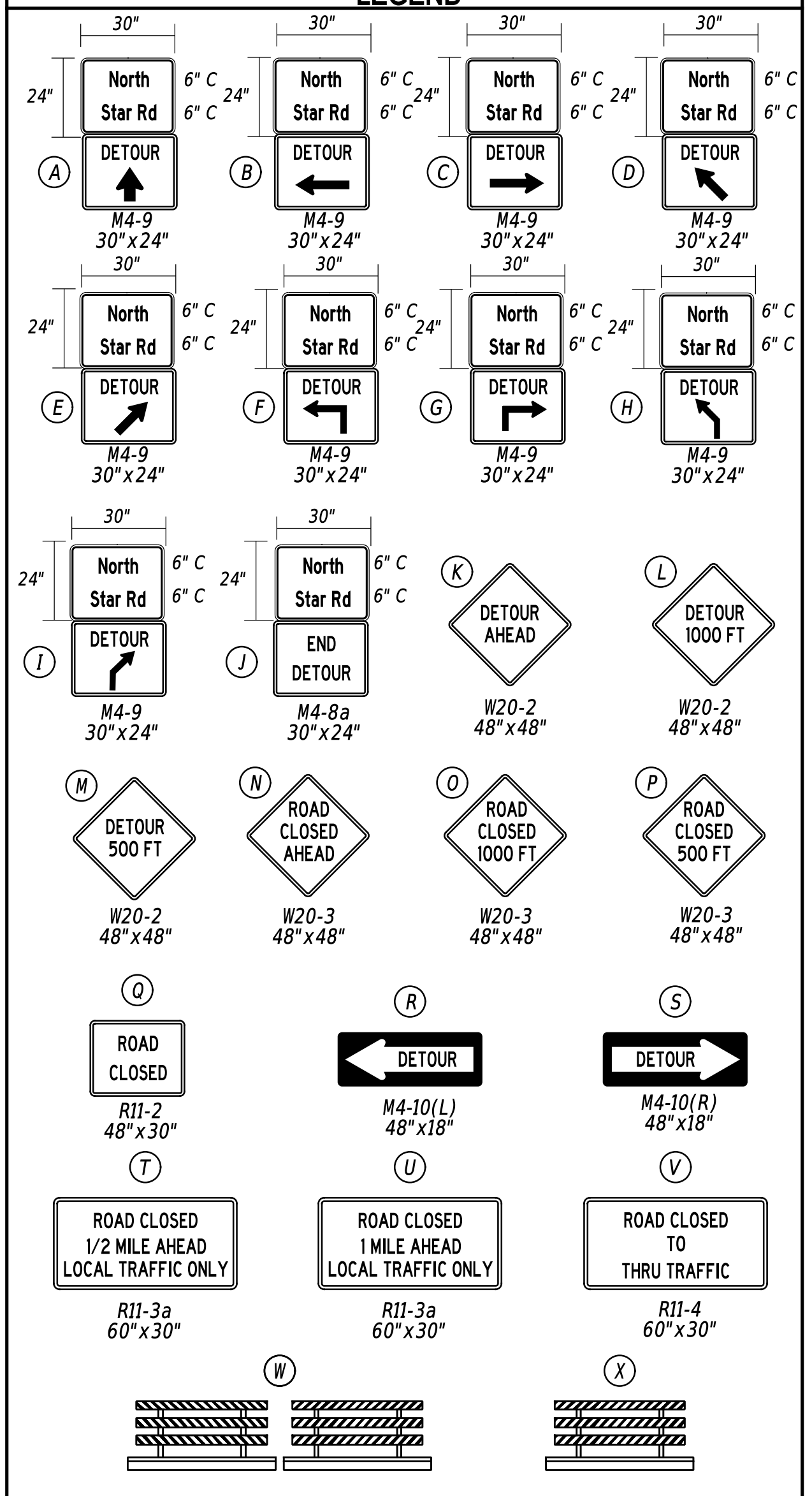
**PREPARED BY**  
 JMT  
*James D. Smith Jr.*  
 THIS SEAL ONLY APPLIES TO THIS DETOUR SHEET  
 DATE 2/1/2024  
  
 SEAL

**QA/QC**  
 DATE 2/1/2024  
*Mir Akh Wahed*  
 \*I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS DETOUR PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.\*



ACCESS TO RESIDENTIAL AND COMMERCIAL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. DETOUR IS INTENDED FOR NON-LOCAL TRAFFIC.  
 THE INTERSECTION AT PAPER MILL ROAD AND UPPER PIKE CREEK ROAD/NORTH STAR ROAD MUST BE MAINTAINED DURING CONSTRUCTION.

**LEGEND**



**GENERAL NOTES**

- ALL TEMPORARY TRAFFIC CONTROL DEVICES ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR AND SHALL BE IN COMPLIANCE WITH THIS PLAN AND THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD) LATEST EDITION.
- "W" TYPE 3 BARRICADES AT A ROAD CLOSURE SHALL BE PLACED COMPLETELY ACROSS THE ROADWAY, FROM CURB TO CURB OR FROM EDGE OF ROAD TO EDGE OF ROAD, WITH THE STRIPES POSITIONED DOWNWARD TOWARD THE CENTER OF THE ROADWAY.
- BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.
- "DETOUR" PLAQUES (M4-8), "ARROW" PLAQUES (M5/M6 SERIES) AND NORTH STAR ROAD SIGNS SHALL BE BLACK LEGEND ON RETROREFLECTIVE PRISMATIC FLUORESCENT ORANGE BACKGROUND.

**DETOUR DESCRIPTION**  
 (TO BE USED ON ROAD CLOSURE NOTIFICATION AND TRAFFIC ALERT BY ENGINEER)  
 MOTORISTS WANTING TO TRAVEL NORTH ON NORTH STAR ROAD WILL TURN RIGHT ONTO PAPER MILL ROAD, TURN LEFT ONTO NORTHBOUND SR 7 (LIMESTONE ROAD), AND TURN LEFT ONTO LITTLE BALTIMORE ROAD, RETURNING TO NORTH STAR ROAD  
 MOTORISTS WANTING TO TRAVEL SOUTH ON NORTH STAR ROAD WILL TURN LEFT ONTO LITTLE BALTIMORE ROAD, TURN RIGHT ONTO SOUTHBOUND SR 7 (LIMESTONE ROAD), AND TURN RIGHT ONTO PAPER MILL ROAD, RETURNING TO NORTH STAR ROAD

**CONCURRENCE FOR IMPLEMENTATION**

*James W. Wynn*  
 TRAFFIC SAFETY  
 DATE 2/2/2024

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ADDENDUMS / REVISIONS

NOT TO SCALE

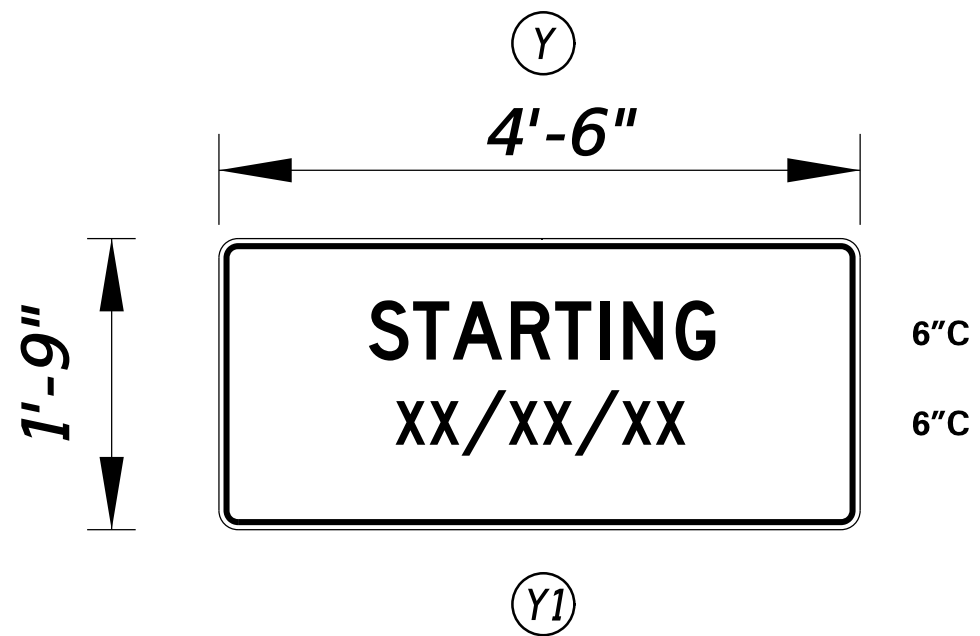
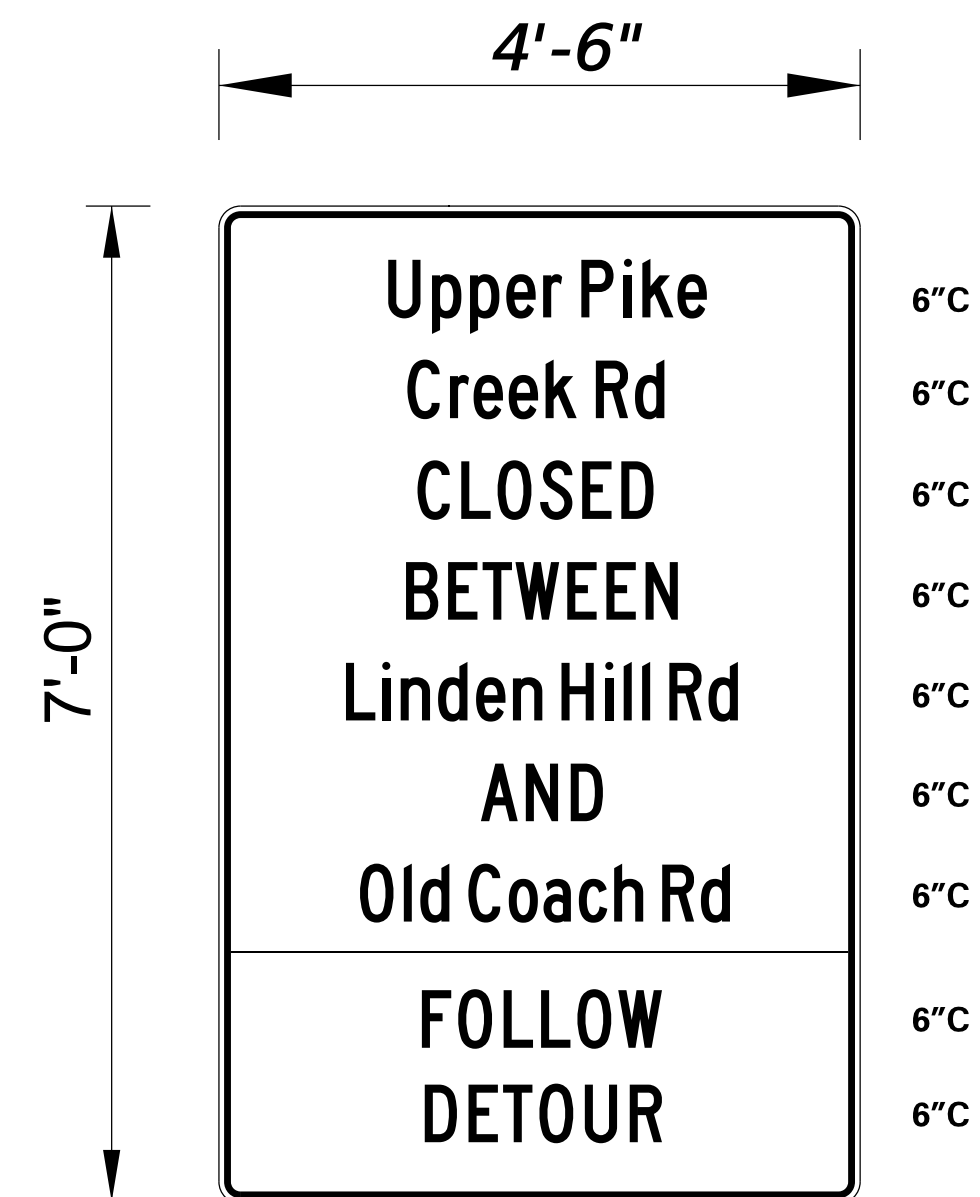
**PAVEMENT & REHABILITATION**  
 NORTH I, 2024  
 UPPER PIKE CREEK ROAD

CONTRACT T202106001  
 COUNTY NEW CASTLE  
 ROAD NO. N295  
 DESIGNED BY: J. CLEM  
 CHECKED BY: J. SMITH

**DETOUR PLAN B -**  
 CLOSURE OF UPPER  
 PIKE CREEK ROAD  
 NORTH OF SR 72

SECTION JMT  
 SHEET NO. 64

**SPECIAL SIGNS**



-ALL SIGNS SHALL BE BLACK ON RETROREFLECTIVE PRISMATIC FLUORESCENT ORANGE.

-DISPLAY SIGN "Y" THAT INCLUDES THE "YI" PLAQUES AT CLOSURE POINT LOCATIONS FOR 10 DAYS PRIOR TO IMPLEMENTATION OF DETOUR

-"YI" PLAQUE TO BE REMOVED AFTER IMPLEMENTATION OF DETOUR

-"YI" PLAQUE TO COMPLETELY COVER 'FOLLOW DETOUR' LEGEND OF "Y" SIGN

-THE FABRICATION OF SIGN "Y" AND "YI" SHALL BE PAID UNDER ITEM #818001. THE INSTALLATION AND REMOVAL OF THE SIGNS SHALL BE INCIDENTAL TO THE ITEM #818001. THE FURNISHING OF THE SIGN POSTS SHALL BE INCIDENTAL TO ITEM #818001.

**PREPARED BY**

JMT

*James D. Smith Jr.*

2/1/2024  
DATE



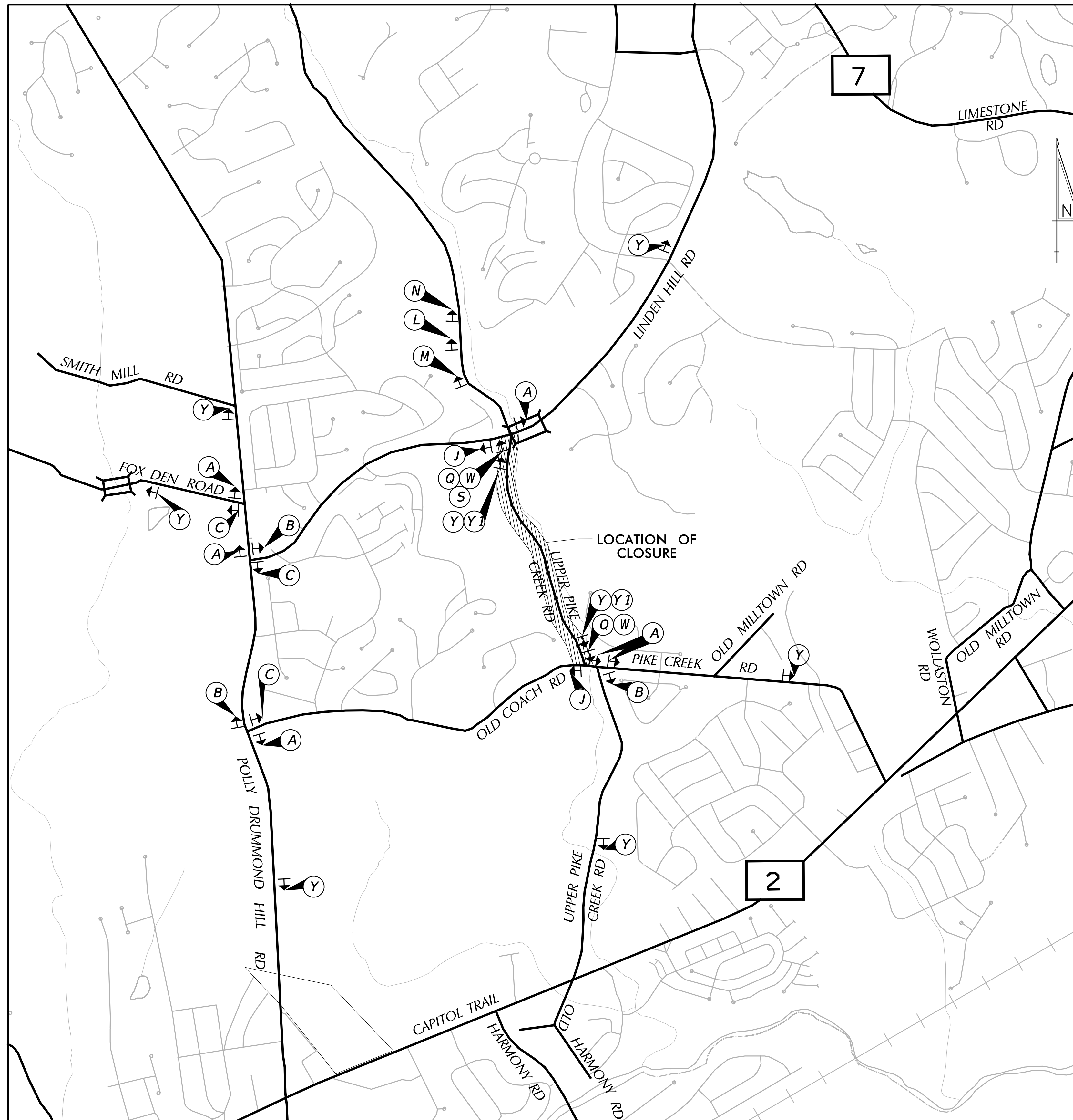
SEAL

*Mir Akh Wahed*

2/1/2024  
DATE

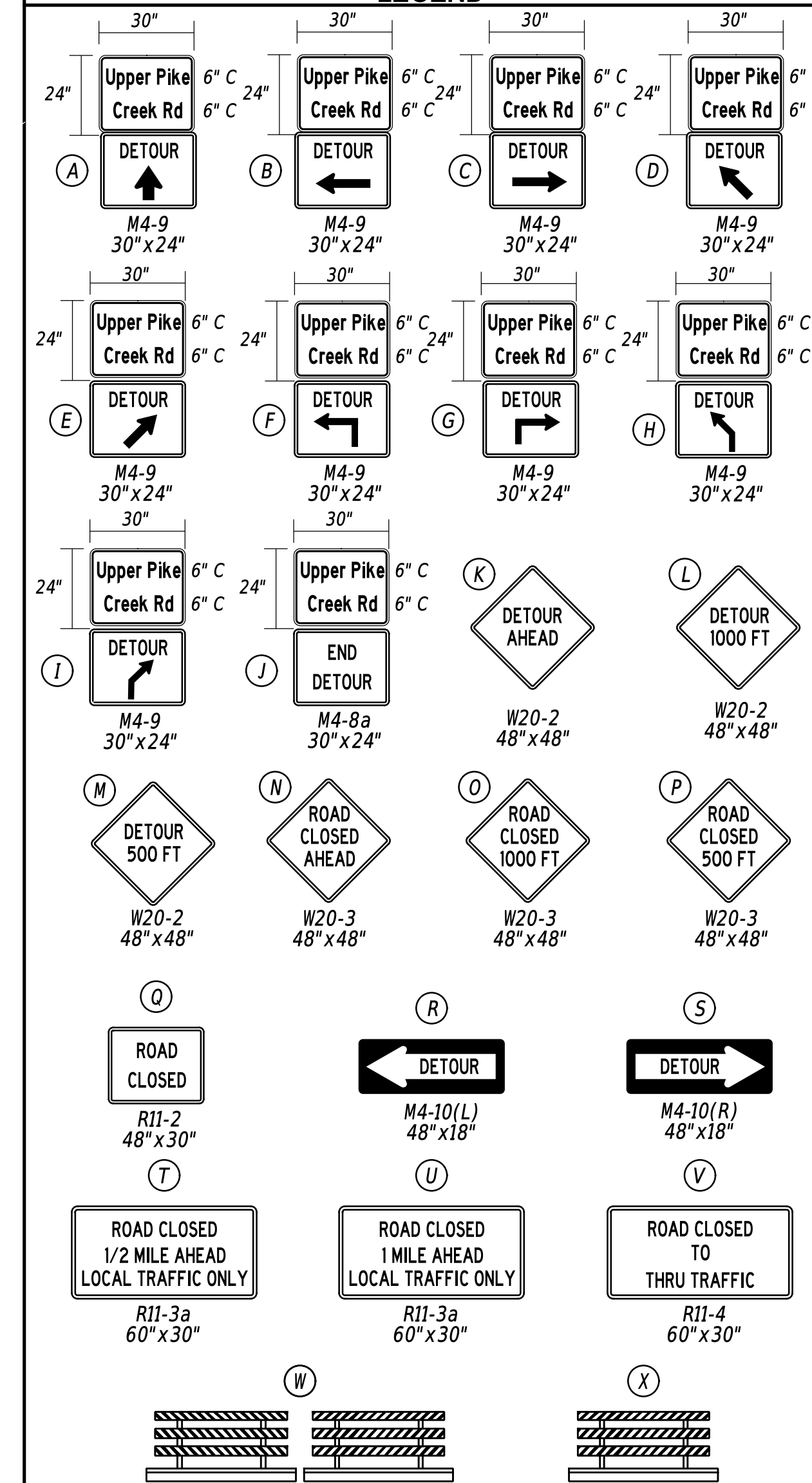
QA/QC

\*I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS DETOUR PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.\*



ACCESS TO RESIDENTIAL AND COMMERCIAL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. DETOUR IS INTENDED FOR NON-LOCAL TRAFFIC. THE INTERSECTION AT PAPER MILL ROAD AND UPPER PIKE CREEK ROAD/NORTH STAR ROAD MUST BE MAINTAINED DURING CONSTRUCTION.

**LEGEND**



**GENERAL NOTES**

- ALL TEMPORARY TRAFFIC CONTROL DEVICES ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR AND SHALL BE IN COMPLIANCE WITH THIS PLAN AND THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD) LATEST EDITION.
- "W" TYPE 3 BARRICADES AT A ROAD CLOSURE SHALL BE PLACED COMPLETELY ACROSS THE ROADWAY, FROM CURB TO CURB OR FROM EDGE OF ROAD TO EDGE OF ROAD, WITH THE STRIPES POSITIONED DOWNWARD TOWARD THE CENTER OF THE ROADWAY.
- BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.
- "DETOUR" PLAQUES (M4-8), "ARROW" PLAQUES (M5/M6 SERIES) AND UPPER PIKE CREEK ROAD SIGNS SHALL BE BLACK LEGEND ON RETROREFLECTIVE PRISMATIC FLUORESCENT ORANGE BACKGROUND.

**DETOUR DESCRIPTION**

(TO BE USED ON ROAD CLOSURE NOTIFICATION AND TRAFFIC ALERT BY ENGINEER)

MOTORISTS WANTING TO TRAVEL NORTH ON UPPER PIKE CREEK ROAD WILL TURN LEFT ONTO OLD COACH ROAD, TURN RIGHT ONTO POLLY DRUMMOND HILL ROAD, AND TURN RIGHT ONTO LINDEN HILL ROAD, RETURNING TO UPPER PIKE CREEK ROAD

MOTORISTS WANTING TO TRAVEL SOUTH ON UPPER PIKE CREEK ROAD WILL TURN RIGHT ONTO LINDEN HILL ROAD, TURN LEFT ONTO POLLY DRUMMOND HILL ROAD, AND TURN RIGHT ONTO OLD COACH ROAD, RETURNING TO UPPER PIKE CREEK ROAD

**CONCURRENCE FOR IMPLEMENTATION**

*James Wynn* 2/2/2024  
DATE

ADDENDUMS / REVISIONS

NOT TO SCALE

PAVEMENT & REHABILITATION  
NORTH I, 2024  
UPPER PIKE CREEK ROAD

CONTRACT	ROAD NO.	N295
T202106001	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	J. SMITH
NEW CASTLE		

**DETOUR PLAN C -  
CLOSURE OF UPPER  
PIKE CREEK ROAD  
SOUTH OF LINDEN  
HILL ROAD**

SECTION	JMT
SHEET NO.	65

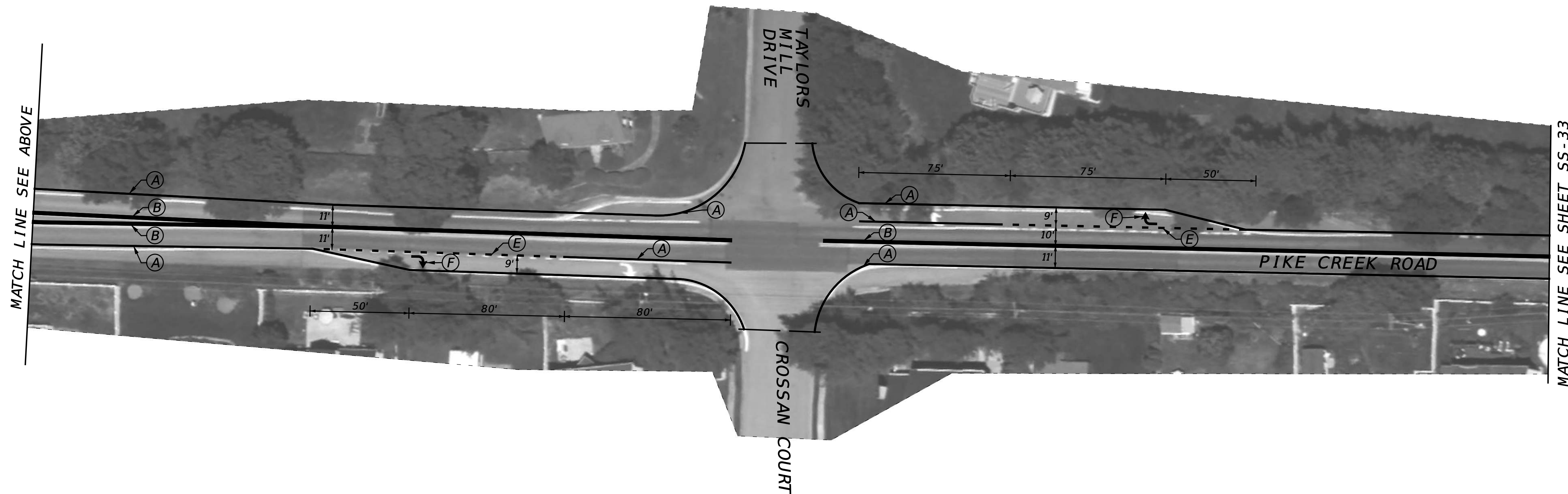
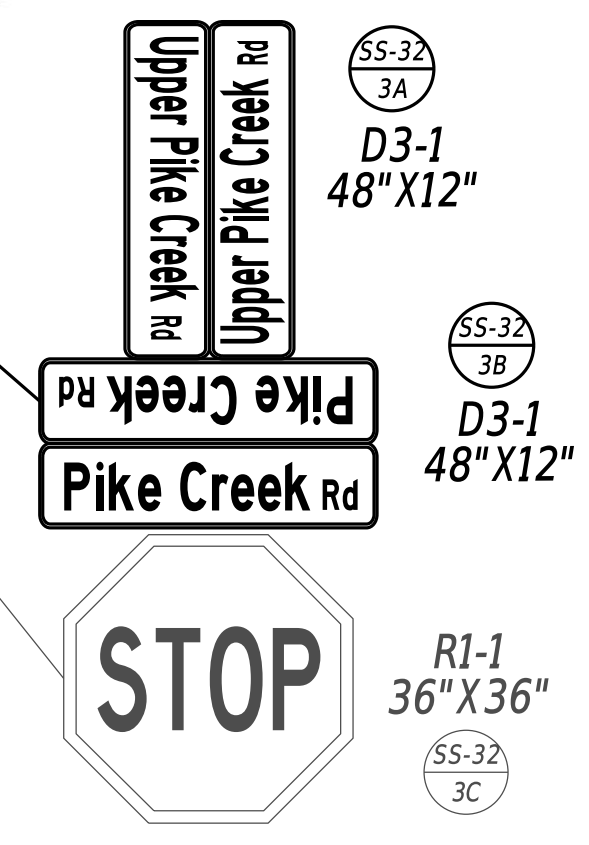
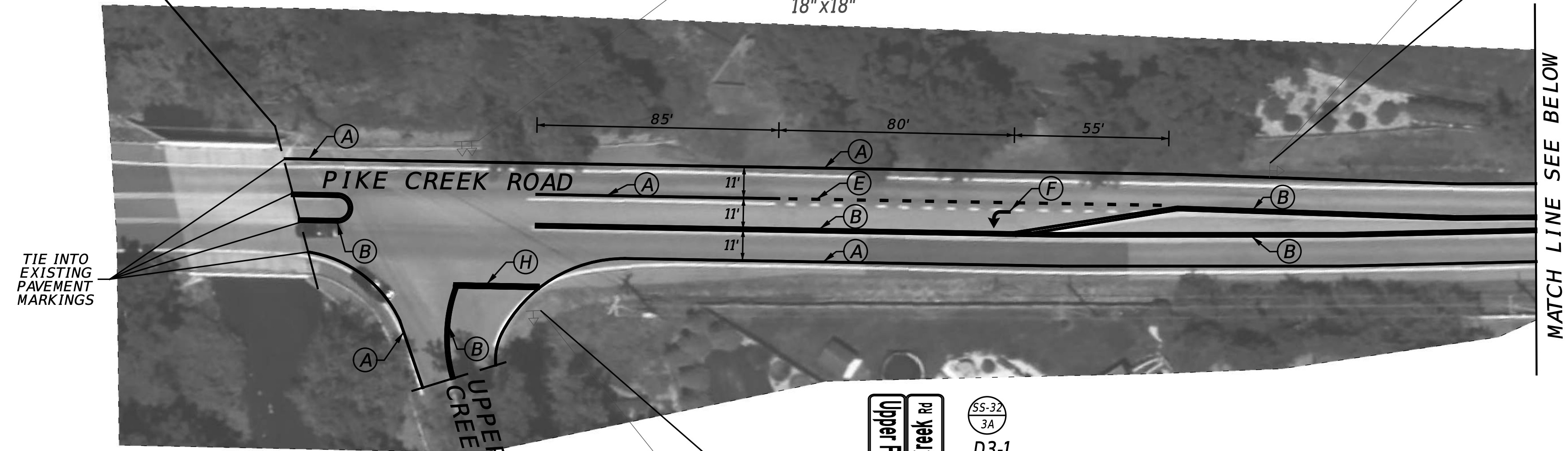
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LIMITS OF CONSTRUCTION  
CONTRACT NO. T202406101  
MATCH EXISTING STRIPING



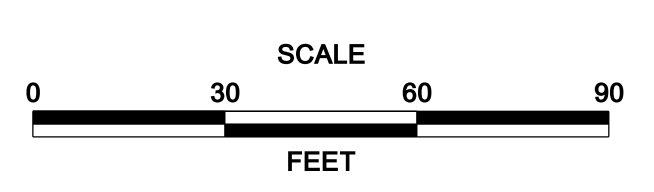
PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,890 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	3,160 LF
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	110 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	52 SF
(H)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	45 SF

NOTES:  
1. LANE NARROWS ON WESTBOUND PIKE CREEK ROAD APPROACHING TAYLORS MILL DRIVE.



STATES  
TIMES  
FILES

ADDENDUMS / REVISIONS

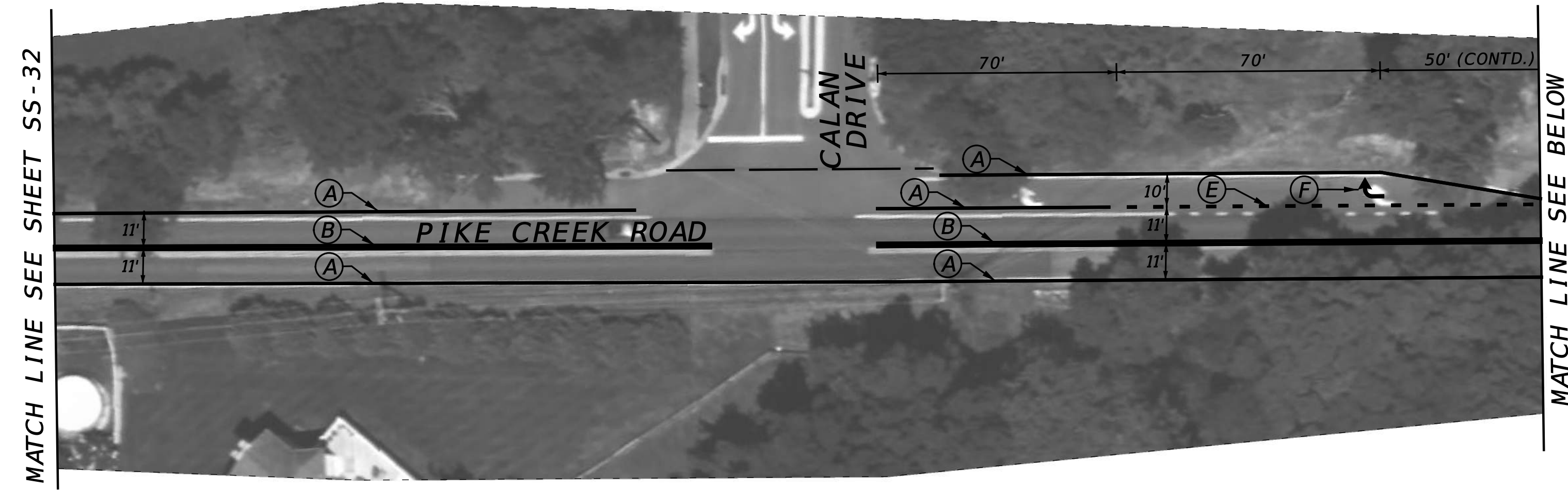
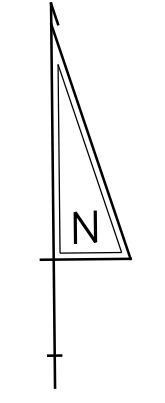


PAVEMENT & REHABILITATION  
NORTH I, 2024  
PIKE CREEK ROAD

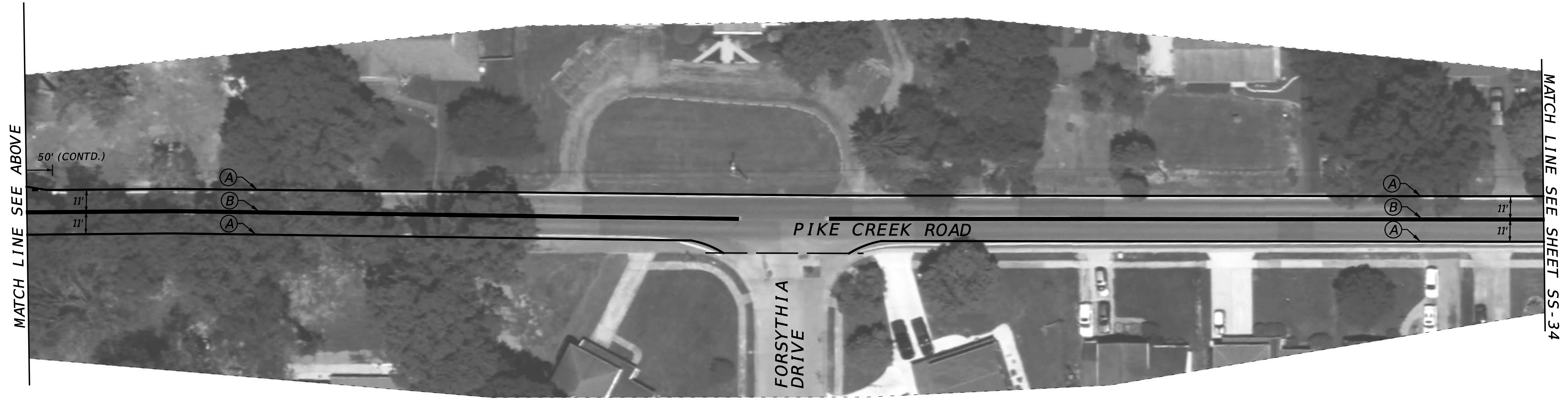
CONTRACT	T202406101	ROAD NO.	N316
COUNTY	NEW CASTLE	DESIGNED BY:	S. MILLER/ J. CLEM
		CHECKED BY:	M. WAHED

SIGNING AND STRIPING PLAN

SS-32
SECTION
JMT
SHEET NO.
66

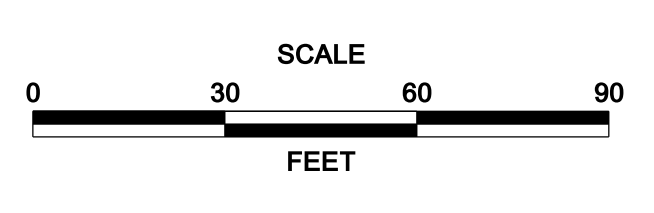


PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
Ⓐ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,560 LF
Ⓑ	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,420 LF
Ⓔ	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	35 LF
Ⓕ	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	16 SF



STATES  
TIMES  
FILES

ADDENDUMS / REVISIONS

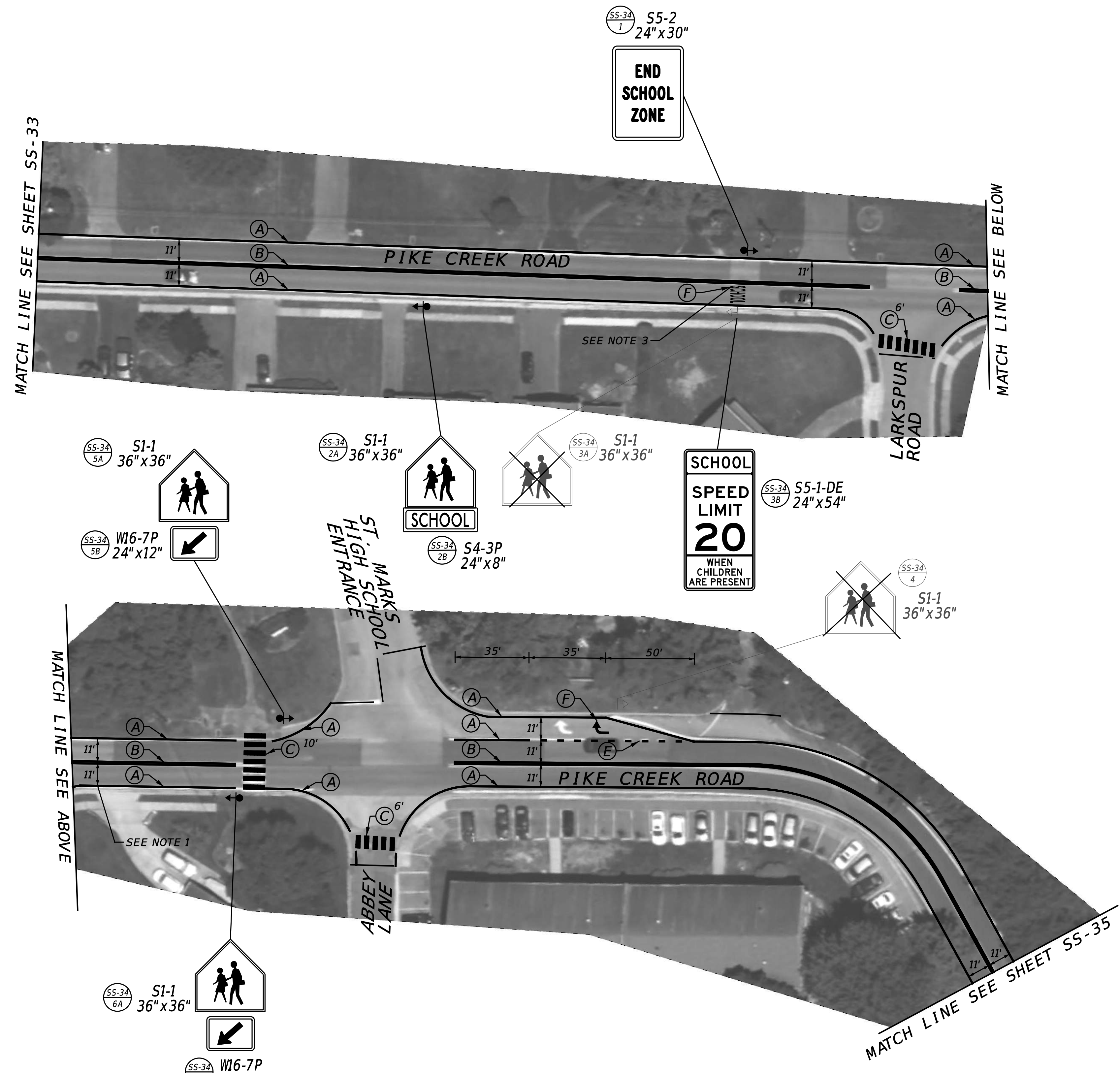


**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PIKE CREEK ROAD**

CONTRACT	ROAD NO.	<b>N316</b>
T202406101	DESIGNED BY: S. MILLER/ J. CLEM	
COUNTY	CHECKED BY: M. WAHED	
NEW CASTLE		

<b>SIGNING AND STRIPING PLAN</b>	SECTION
	JMT
	SHEET NO.
	67

SS-33
SECTION
JMT
SHEET NO.
67

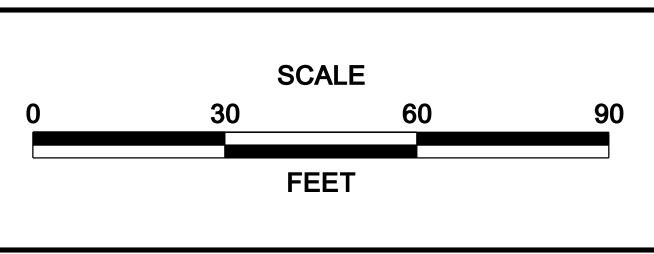


PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,075 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	1,715 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	310 SF
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	25 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	51 SF

- NOTES:
- SIGNS 2A, 2B, 4, 6A, AND 6B SHALL BE FLUORESCENT YELLOW GREEN SIGNS.
  - ON SIGN 3B, "SCHOOL" SHALL BE BLACK LEGEND ON FLUORESCENT YELLOW GREEN BACKGROUND, "SPEED LIMIT 20" AND "WHEN CHILDREN ARE PRESENT" SHALL BE BLACK LEGEND ON WHITE BACKGROUND.
  - REFER TO SHEET 3, FIGURE 1 FOR DETAIL ON SCHOOL PAVEMENT MARKING.

STATES  
TIMES  
FILES

ADDENDUMS / REVISIONS

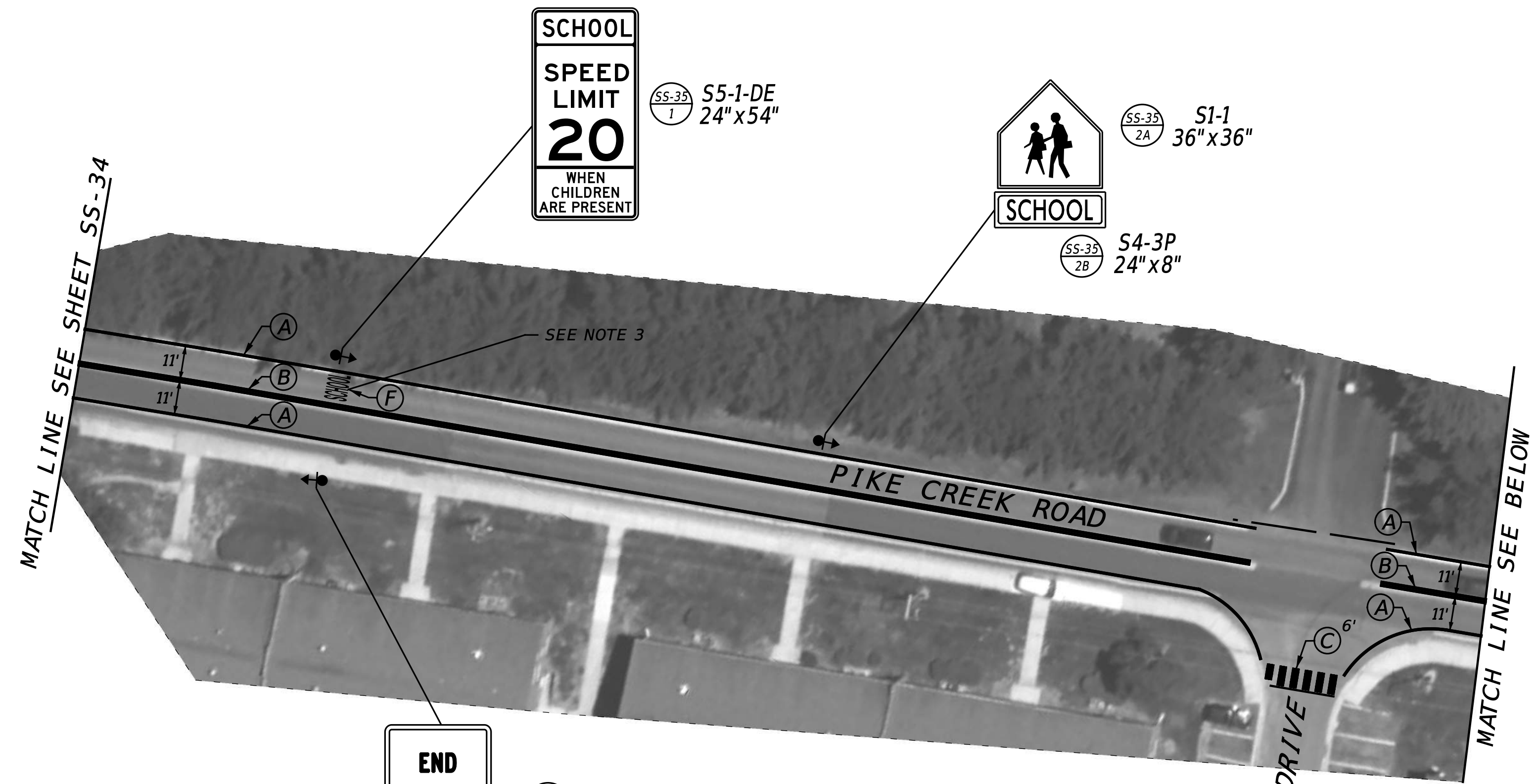
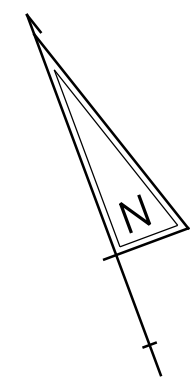


**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PIKE CREEK ROAD**

CONTRACT	ROAD NO.	<b>N316</b>
T202406101	DESIGNED BY:	S. MILLER/ J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

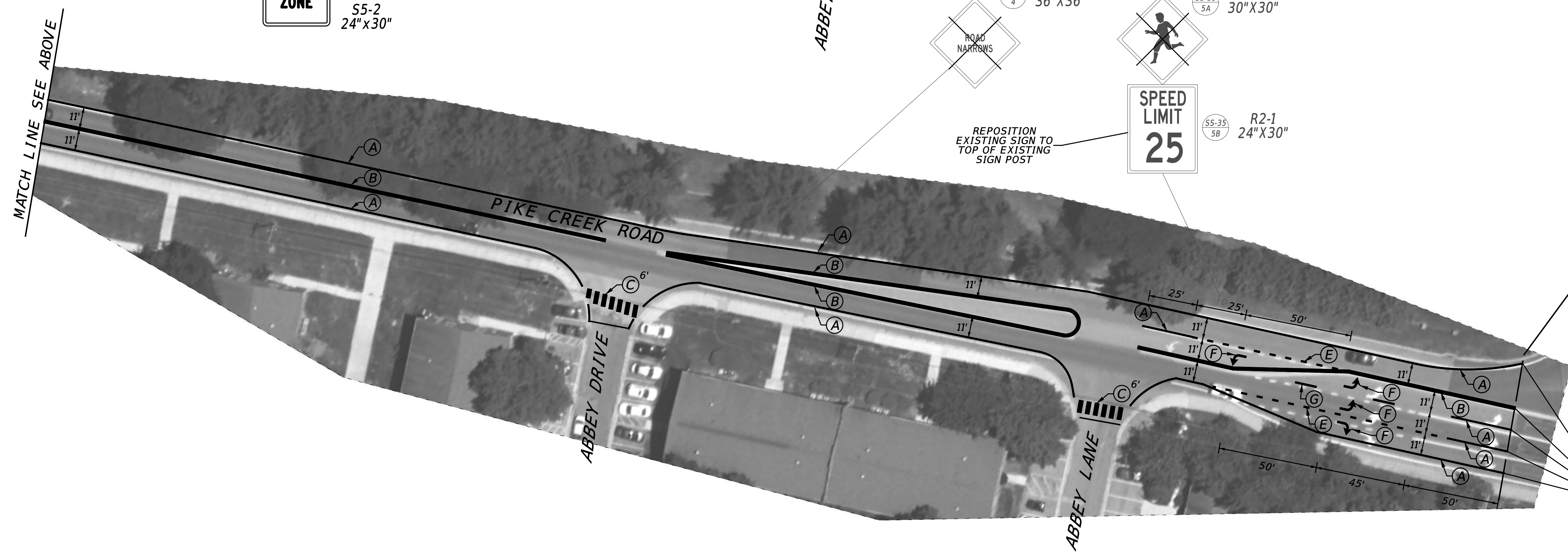
<b>SIGNING AND STRIPING PLAN</b>	SECTION	JMT
	SHEET NO.	68

SS-34
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PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	3,380 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,255 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	250 SF
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	75 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	70 SF
(G)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 10' LINE & 30' GAP (ITEM 817042)	25 LF

- NOTES:
- SIGNS 2A AND 2B SHALL BE FLUORESCENT YELLOW GREEN SIGNS.
  - ON SIGN 1, "SCHOOL" SHALL BE BLACK LEGEND ON FLUORESCENT YELLOW GREEN BACKGROUND, "SPEED LIMIT 20" AND "WHEN CHILDREN ARE PRESENT" SHALL BE BLACK LEGEND ON WHITE BACKGROUND.
  - REFER TO SHEET 3, FIGURE 1 FOR DETAIL ON SCHOOL PAVEMENT MARKING.

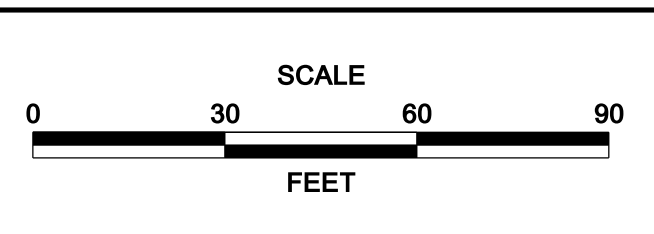


LIMITS OF CONSTRUCTION  
CONTRACT NO. T202406101  
MATCH EXISTING STRIPING

TIE INTO  
EXISTING  
PAVEMENT  
MARKINGS

STATES  
TIMES  
FILES

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PIKE CREEK ROAD**

CONTRACT	T202406101	ROAD NO.	N316
COUNTY	NEW CASTLE	DESIGNED BY:	S. MILLER/ J. CLEM
		CHECKED BY:	M. WAHED

**SIGNING AND  
STRIPING PLAN**

SS-35
SECTION
JMT
SHEET NO.
69

PERMANENT SIGN SCHEDULE - PIKE CREEK ROAD

SHEET NO.	PLAN IDENTIFIER	SIGN DESIGNATION	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	X13 / ITEM 818001 FLAT SHEET ALUMINUM, TYPE IV, RETROREFLECTIVE SHEETING (SF)	X14 / ITEM 818003 FLAT SHEET ALUMINUM, TYPE XI, RETROREFLECTIVE SHEETING (SF)	X15 / ITEM 819512 SIGN POST REFLECTIVE PANEL (EA)	ITEM 819018 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE POST (EACH)			ITEM 819019 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS (SF)			POST INSTALLATION TYPE	X16 / ITEM 819011 12' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	X17 / ITEM 819023 15' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	ITEM 819016 4" HOLE, 0.6" (EACH)	ITEM 819017 4" HOLE, >6" (EACH)	SIGN DISPOSITION	X14A FLAT SHEET ALUMINUM SIGN PANELS (TYPE XI SHEETING) - SIGNS ON POLES, SPAN WIRES, MAST ARMS (TRAFFIC SUPPLY)	ITEM 822500 INSTALL OVERHEAD SIGN (SF) ON SIGNAL POLES TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	ITEM 823003 REMOVAL OF SIGN ON SPAN WIRE OR MAST ARM (EA) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	ITEM 823001 INSTALLATION OF SIGN ON SPAN WIRE OR MAST ARM (SF) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	REMARKS
										SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL											
SS-32	1A	W1-7(48)	1	TWO DIRECTIONAL LARGE ARROW - 48x24	48	24																				
SS-32	1B	OM4.3	1	END OF ROAD OBJECT MARKER	18	18																				
SS-32	1C	OM4.3	1	END OF ROAD OBJECT MARKER	18	18																				
SS-32	1D	W16-8aP	1	ADVANCE STREET NAME (4 - line plaque)	30	24																				(Left Arrow) "Old"/"Coach Rd"/"Pike" (Right Arrow) "Creek Rd"
SS-32	2A	W2-7L(30)	1	OFFSET SIDE ROADS - 30x30	30	30	6.3																			
SS-32	2B	W16-8aP	1	ADVANCE STREET NAME (2 - line plaque)	30	18	3.8																			"Upper Pike Creek Rd" (Highway Font C, 4" Normal Kerning)
SS-32	3A	D3-1(12)	2	STREET NAME (1 Line) Posted speed ≤ 40 MPH	48	12	8.0																			"Upper Pike Creek Rd" (Highway Font B, 5/3" Normal Kerning)
SS-32	3B	D3-1(12)	2	STREET NAME (1 Line) Posted speed ≤ 40 MPH	48	12	8.0																			"Pike Creek Rd" (Highway Font B, 6/4" Normal Kerning)
SS-32	3C	R1-1(36)	1	STOP	36	36																				
SS-34	1	S5-2(24)	1	END SCHOOL ZONE - 24x30	24	30	5.0							SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND
SS-34	2A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36		9.0						SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND
SS-34	2B	S4-3P(24)	1	SCHOOL - 24x8	24	8		1.3						SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND
SS-34	3A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36																				
SS-34	3B	S5-1-DE(24)	1	SCHOOL SPEED LIMIT XX WHEN CHILDREN ARE PRESENT - 24x54	24	54		9.0																		"SCHOOL" text shall be black legend on fluorescent yellow green background. Speed Limit 20
SS-34	4	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36																				FLUORESCENT YELLOW GREEN BACKGROUND
SS-34	5A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36		9.0						SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND
SS-34	5B	W16-7P_FYG(21)L	1	LEFT DOWNWARD DIAGONAL ARROW (plaque) - 21x15 (Fluorescent Yellow-Green)	21	15		2.2						SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND
SS-34	6A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36		9.0						SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND
SS-34	6B	W16-7P_FYG(21)L	1	LEFT DOWNWARD DIAGONAL ARROW (plaque) - 21x15 (Fluorescent Yellow-Green)	21	15		2.2						SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND
SS-35	1	S5-1-DE(24)	1	SCHOOL SPEED LIMIT XX WHEN CHILDREN ARE PRESENT - 24x54	24	54		9.0						SOL	1											"SCHOOL" text shall be black legend on fluorescent yellow green background. Speed Limit 20
SS-35	2A	S1-1(36)	1	SCHOOL SIGN (Symbol) - 36x36	36	36		9.0						SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND
SS-35	2B	S4-3P(24)	1	SCHOOL - 24x8	24	8		1.3						SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND
SS-35	3	S5-2(24)	1	END SCHOOL ZONE - 24x30	24	30	5.0							SOL	1											FLUORESCENT YELLOW GREEN BACKGROUND
SS-35	4	W5-1(36)	1	ROAD NARROWS - 36x36	36	36																				
SS-35	5A	W21-11-DE	1	WATCH CHILDREN (Symbol)	30	30																				
SS-35	5B	R2-1-25(24)	1	SPEED LIMIT (25 MPH - 24x30)	24	30																				
PAGE TOTALS							36	61	0						7	0	0	0			0	0	0	0		

ADDENDUMS / REVISIONS

NOT TO SCALE

PAVEMENT & REHABILITATION  
NORTH I, 2024  
PIKE CREEK ROAD

CONTRACT	ROAD NO.	N316
T202406101	DESIGNED BY:	S. MILLER/ J. CLEM
COUNTY	CHECKED BY:	M. WAHED
NEW CASTLE		

PERMANENT  
SIGN SCHEDULE

SECTION	JMT
SHEET NO.	70

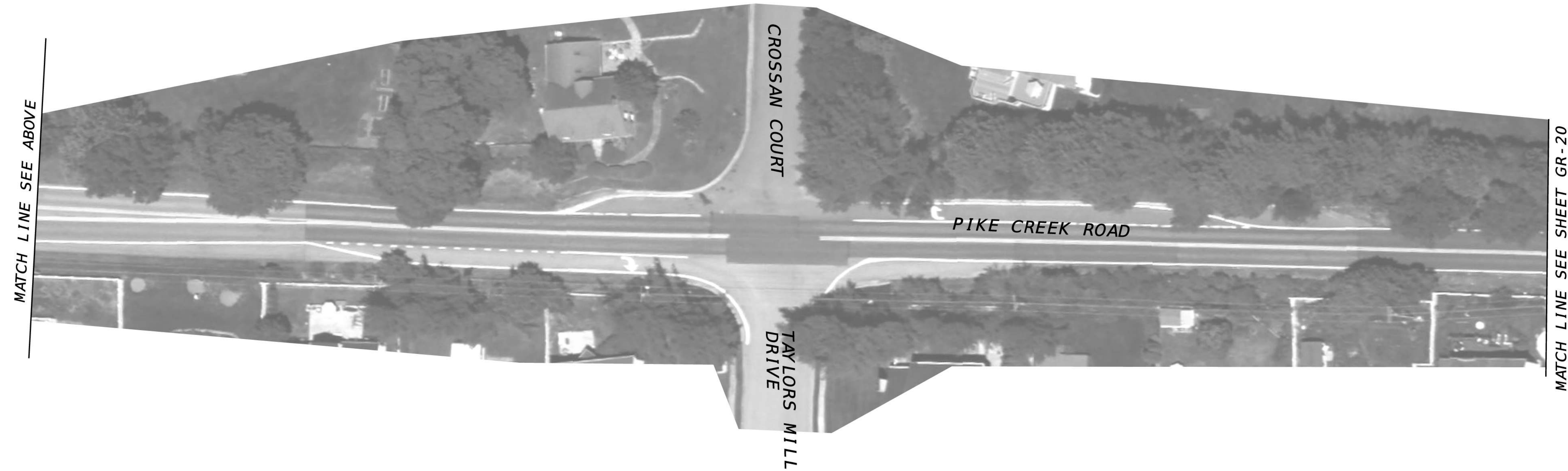
LIMITS OF CONSTRUCTION  
CONTRACT NO. T202406101



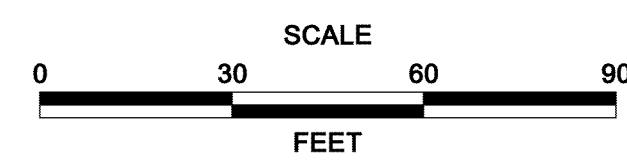
GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
201	GUARDRAIL TO BARRIER CONNECTION, TYPE 1-31	300+08.54	-26.00	35.00
202	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	300+33.54	-26.00	87.50
203	END TREATMENT, ATTENUATOR TYPE 1	301+21.04	-26.00	50.00

NOTES

- SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
- SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.
- SEE STANDARD DETAIL B-10, GUARDRAIL TO BARRIER END CONNECTION, APPROACH, TYPE 1-31.



ADDENDUMS / REVISIONS



PAVEMENT & REHABILITATION  
NORTH I, 2024  
PIKE CREEK ROAD

CONTRACT	ROAD NO.	N316
T202406101	DESIGNED BY :	M. TAPLIN
COUNTY	CHECKED BY :	B. DOUGHERTY
NEW CASTLE		

GUARDRAIL PLANS

GR-19
SECTION
JMT
SHEET NO.
71

**NOTES:**

1. EXISTING GUARDRAIL HEIGHT IS LESS THAN 31". EXISTING CHANGES IN GRADE AND LIMITED RIGHT OF WAY PROHIBIT THE UPGRADE OF GUARDRAIL TO BE COMPLIANT WITH MASH STANDARD AND GUARDRAIL DETAILS. REGRADING OF THE AREA TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF THE PAVEMENT & REHABILITATION PROJECT.



MATCH LINE SEE SHEET GR-19

CALAN DRIVE

PIKE CREEK ROAD

MATCH LINE SEE BELOW



MATCH LINE SEE ABOVE

SEE NOTE 1

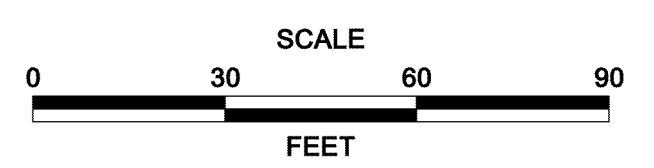
PIKE CREEK ROAD

FORSYTHIA DRIVE

MATCH LINE SEE SHEET GR-21

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ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PIKE CREEK ROAD**

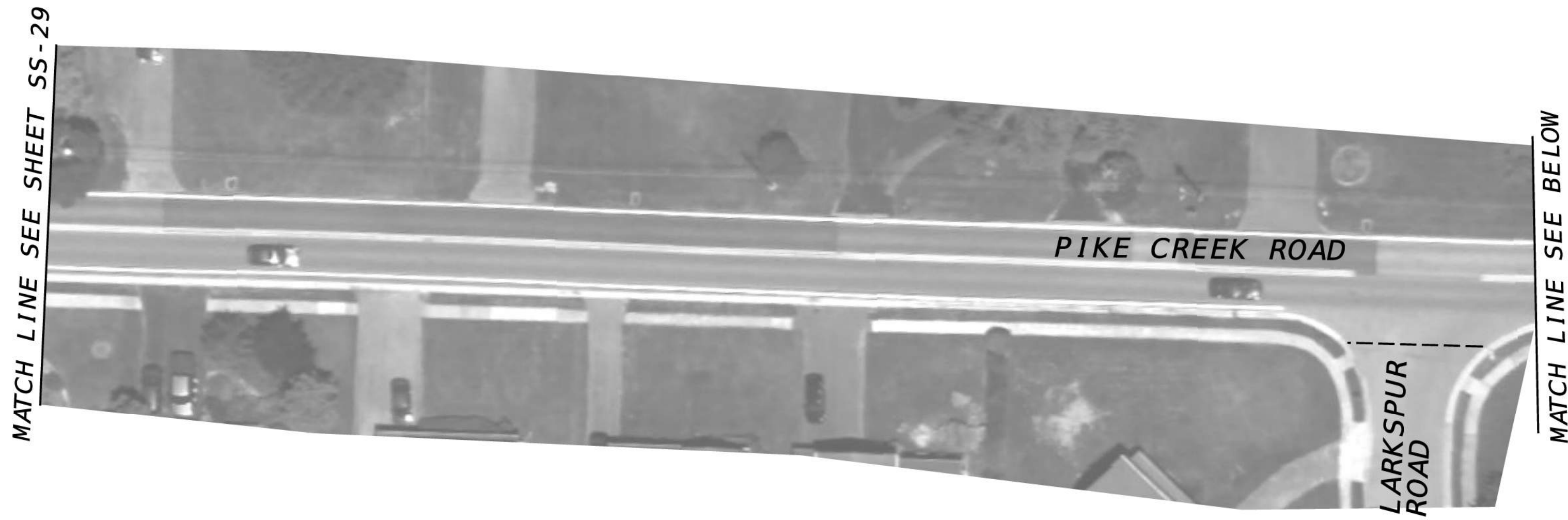
CONTRACT	ROAD NO.	<b>N316</b>
T202406101	DESIGNED BY : M. TAPLIN	
COUNTY	CHECKED BY: B. DOUGHERTY	
NEW CASTLE		

**GUARDRAIL PLANS**

GR-20
SECTION
JMT
SHEET NO.
72

**NOTES:**

1. EXISTING GUARDRAIL HEIGHT IS LESS THAN 31". ADJUSTING THE MAINTENANCE ENTRANCE TO ALL SAINTS CEMETERY TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE THE SCOPE OF THE PAVEMENT AND REHABILITATION PROJECT.



MATCH LINE SEE SHEET SS-29

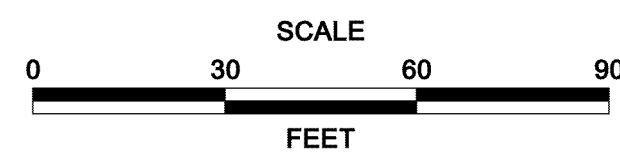
MATCH LINE SEE BELOW



MATCH LINE SEE ABOVE

MATCH LINE SEE SHEET SS-35

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PIKE CREEK ROAD**

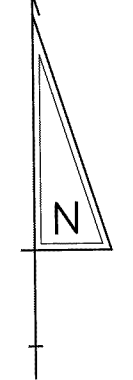
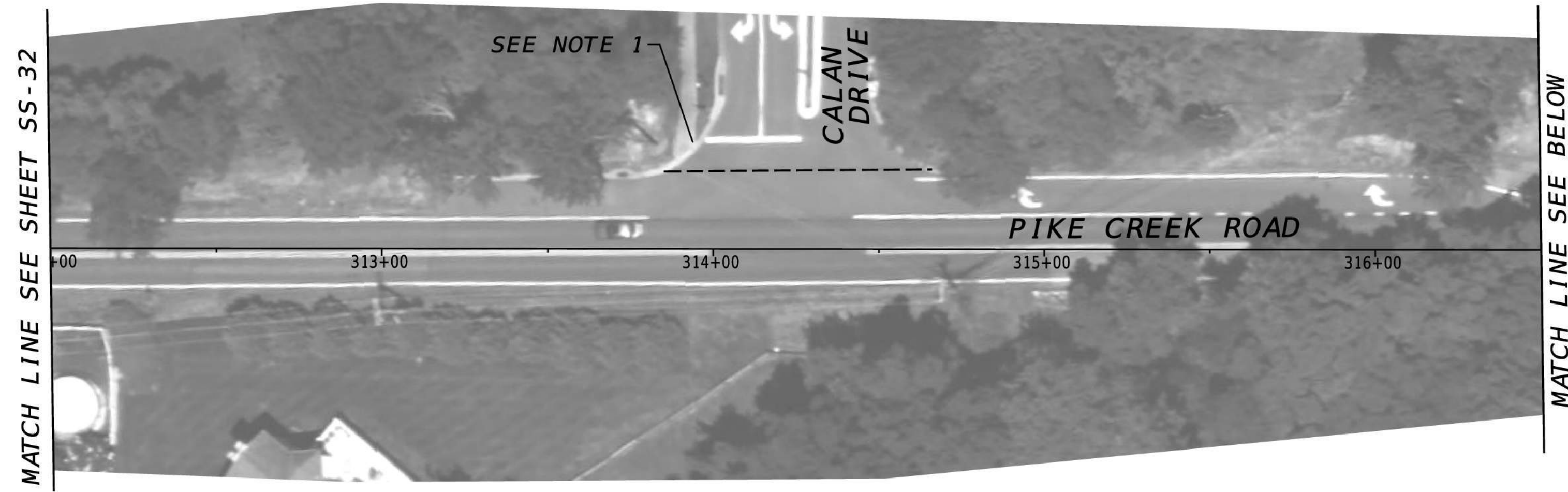
CONTRACT	ROAD NO.	<b>N316</b>
T202406101	DESIGNED BY: M. TAPLIN	
COUNTY	CHECKED BY: B. DOUGHERTY	
NEW CASTLE		

**GUARDRAIL PLANS**

<b>GR-21</b>
SECTION
JMT
SHEET NO.
73

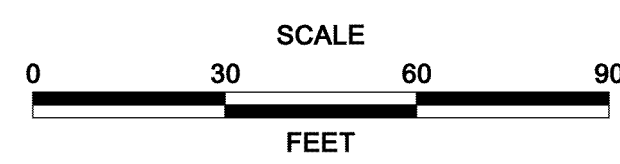
**NOTES**

1. PEDESTRIAN CONNECTION IS OUTSIDE OF PAVEMENTS LIMITS. REMEDIATION NOT REQUIRED.
2. REMOVE THE EXISTING SIDEWALK PANEL AND BARRIER CURB.



7-AUG-2024 22:41 pwt/jmt-pw.bentley.com:jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/ADA Design/PR - Pike Creek Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PIKE CREEK ROAD**

CONTRACT	ROAD NO.	<b>N316</b>
T202406101	DESIGNED BY: M. TAPLIN	
COUNTY	CHECKED BY: W. DOUGHERTY	
NEW CASTLE		

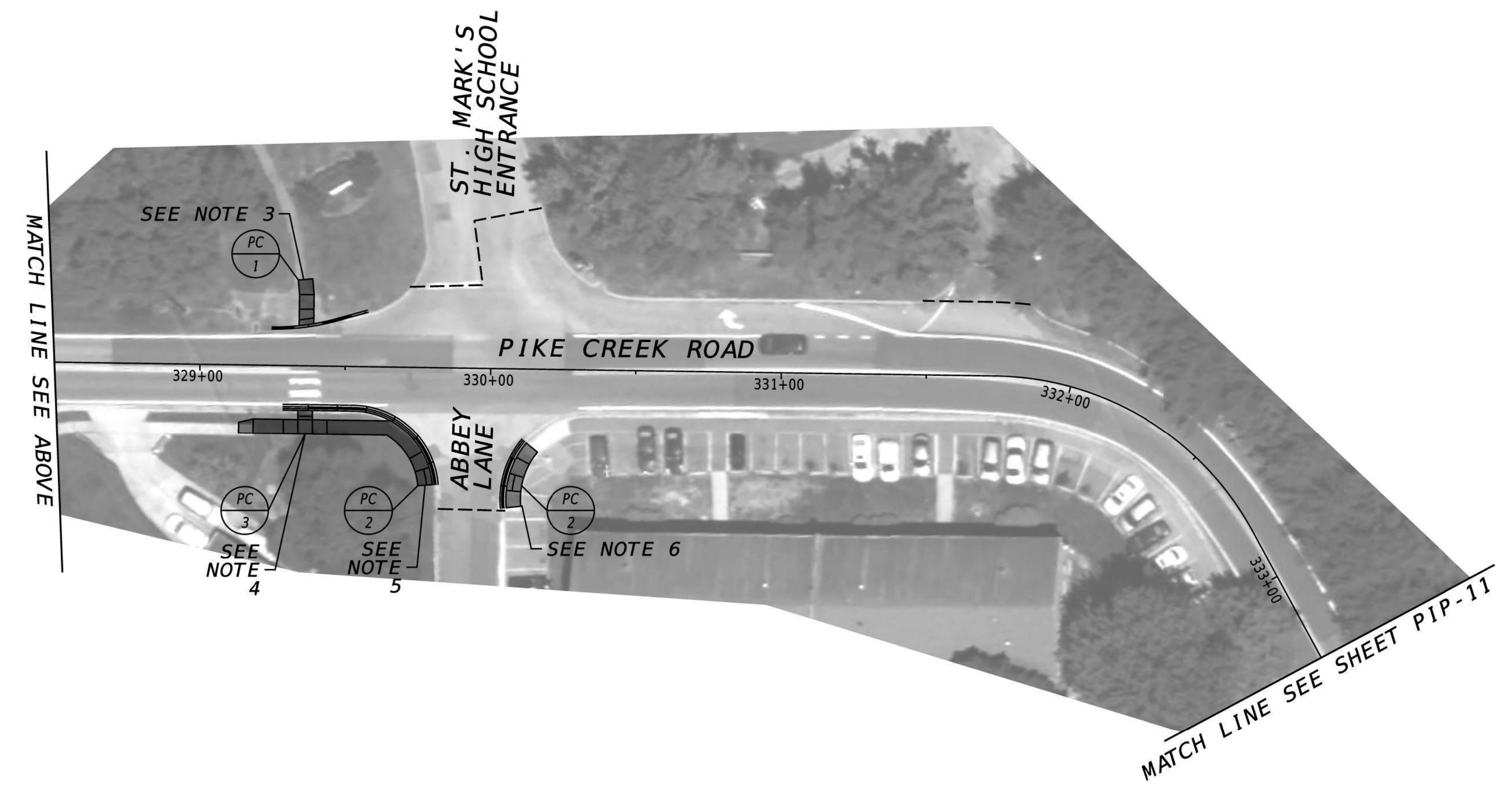
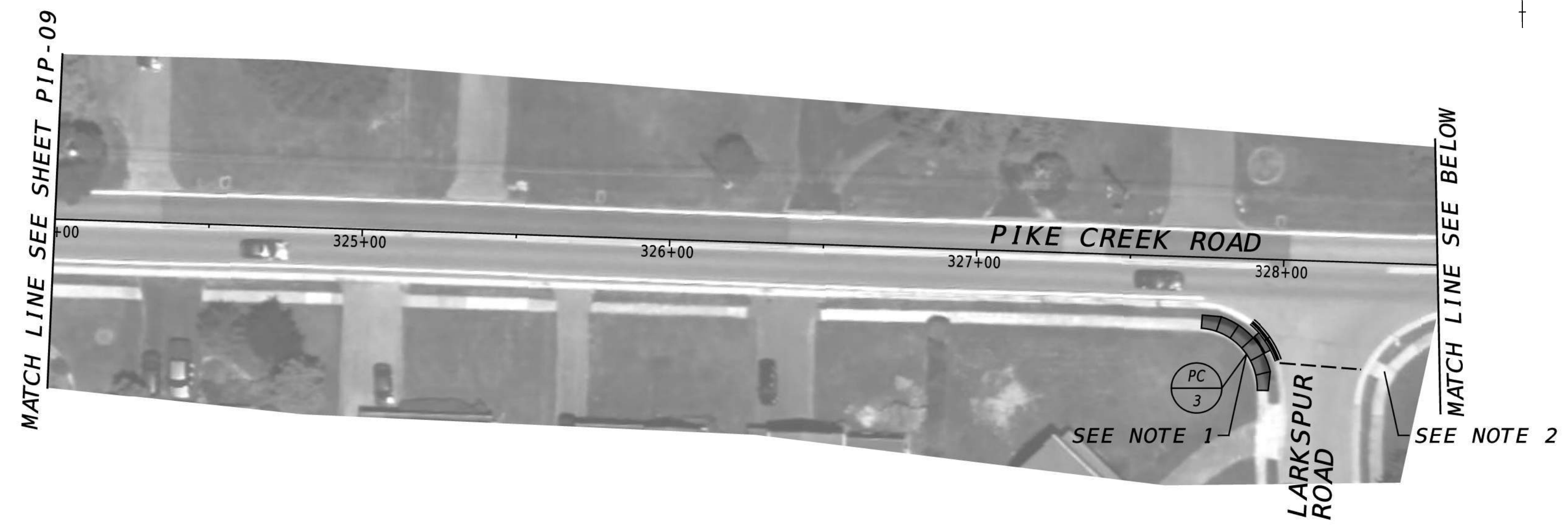
**PEDESTRIAN  
IMPROVEMENT  
PLAN**

<b>PIP-09</b>
SECTION
JMT
SHEET NO.
74



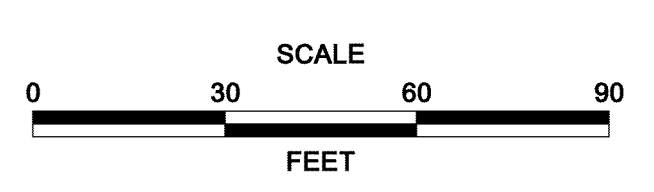
**NOTES**

1. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE VERTICAL DIFFERENCES OF 1" AND 3/4" EXCEED THE MAXIMUM ALLOWABLE OF 1/4".
2. THE PEDESTRIAN CONNECTION WAS FOUND TO BE COMPLIANT WITH THE PEDESTRIAN ACCESS STANDARDS.
3. THE PEDESTRIAN CONNECTION WAS FOUND TO BE UNSTABLE WITH VERTICAL DIFFERENCES.
4. PEDESTRIAN CROSSWALK STRIPING PRESENT WITH NO PEDESTRIAN CONNECTION.
5. STUB END PRESENT IN SIDEWALK EAST OF LARKSPUR ROAD. PEDESTRIAN ACCESS ROUTE IS MISSING BETWEEN LARKSPUR ROAD PIKE CREEK ROAD AND ABBEY LANE.
6. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO SLOPES (7.6%) IN THE TURNING SPACE EXCEEDING 2.0%



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ADDENDUMS / REVISIONS

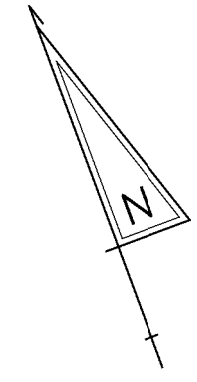


**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PIKE CREEK ROAD**

CONTRACT	ROAD NO.	<b>N316</b>
T202406101	DESIGNED BY: M. TAPLIN	
COUNTY	CHECKED BY: W. DOUGHERTY	
NEW CASTLE		

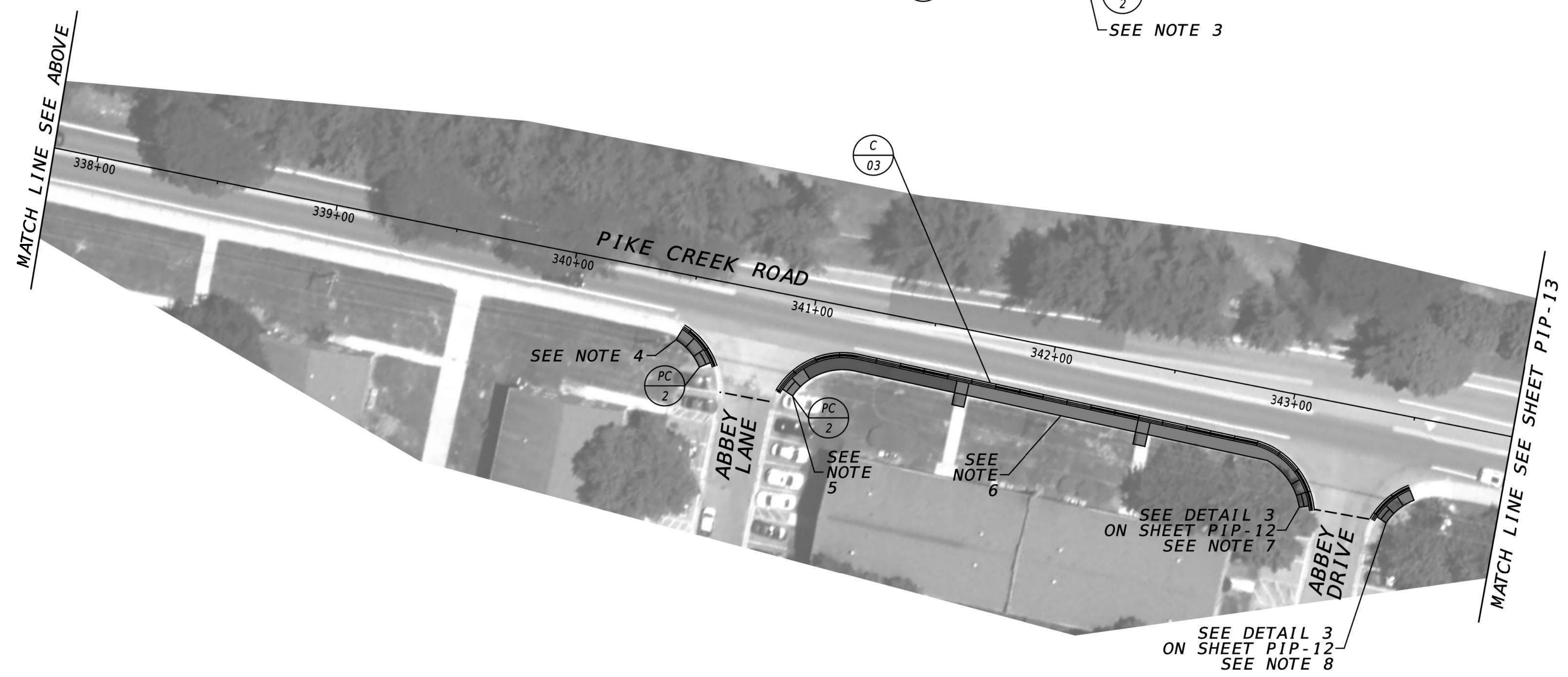
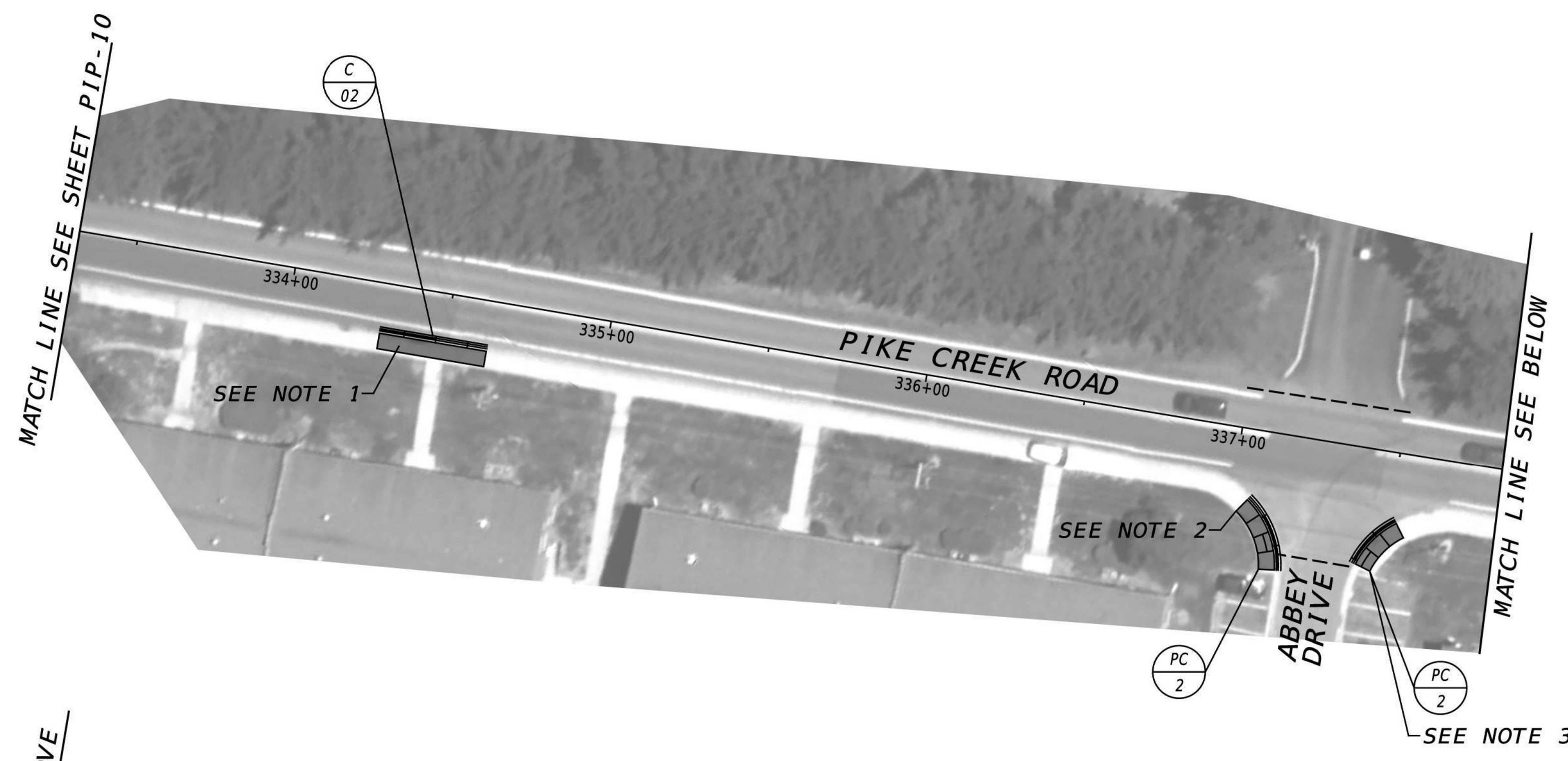
**PEDESTRIAN  
IMPROVEMENT  
PLAN**

<b>PIP-10</b>
SECTION
JMT
SHEET NO.
75



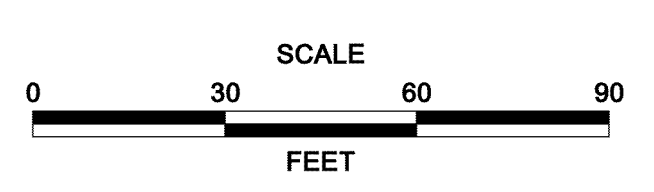
**NOTES**

1. THE EXISTING CURB AND SIDEWALK IS FAILING DUE TO SETTLEMENT, EROSION, AND CROSS SLOPES IN EXCESS OF 2%. REMEDIATE SIDEWALK AND CURB. REMEDIATE PER STANDARD DETAILS M-3, AND C-1.
2. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES WITHIN THE TURNING SPACE (8.6%) EXCEEDING 2% ALLOWABLE.
3. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES WITHIN THE TURNING SPACE (6.6%) EXCEEDING 2% ALLOWABLE.
4. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES WITHIN THE TURNING SPACE (6.1%) EXCEEDING 2% ALLOWABLE.
5. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES WITHIN THE TURNING SPACE (8.9%) EXCEEDING 2% ALLOWABLE.
6. THE EXISTING CURB AND SIDEWALK IS FAILING DUE TO SETTLEMENT, EROSION, AND CROSS SLOPES IN EXCESS OF 2%. REMEDIATE SIDEWALK AND CURB. REMEDIATE PER STANDARD DETAILS M-3, AND C-1.
7. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES WITHIN THE TURNING SPACE (9.3%) EXCEEDING 2% ALLOWABLE, AND DOES NOT MEET THE 48" MINIMUM TURNING SPACE WIDTH.
8. THE PEDESTRIAN CONNECTION WAS FOUND TO BE NON-COMPLIANT DUE TO CROSS SLOPES WITHIN THE TURNING SPACE (8.7%) EXCEEDING 2% ALLOWABLE.



CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
02	INTEGRAL PCC CURB AND GUTTER, TYPE 2	34'
03	INTEGRAL PCC CURB AND GUTTER, TYPE 2	183'

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PIKE CREEK ROAD**

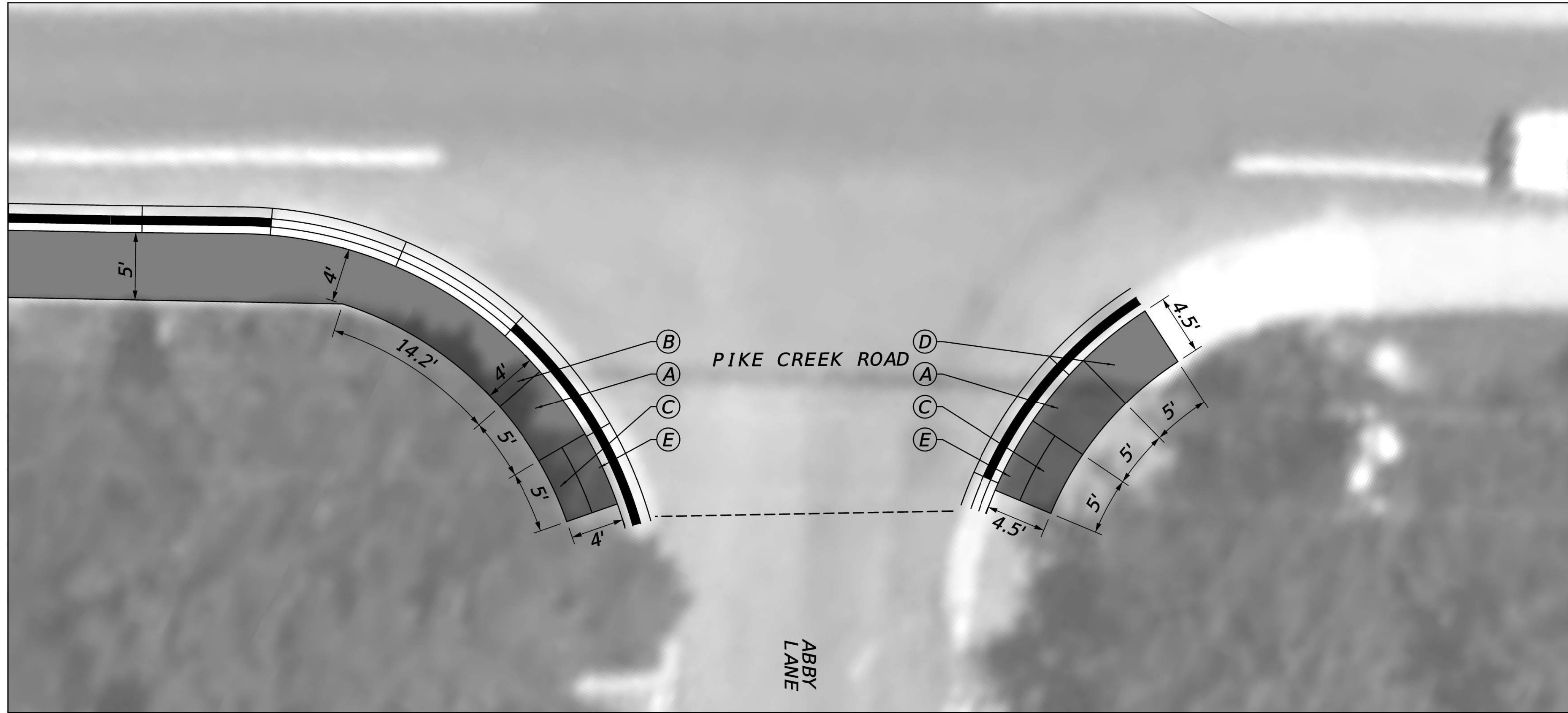
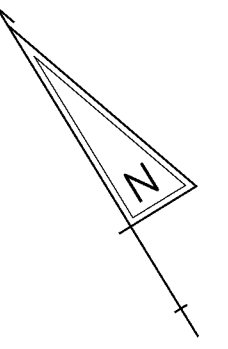
CONTRACT	ROAD NO.	<b>N316</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	W. DOUGHERTY
NEW CASTLE		

**PEDESTRIAN  
IMPROVEMENT  
PLAN**

<b>PIP-11</b>
SECTION
JMT
SHEET NO.
76

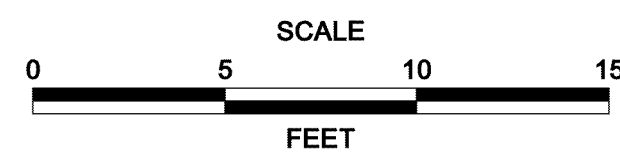
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SYMBOL	ITEM
(A)	RAMP SEGMENT - RUNNING SLOPES MAY NOT EXCEED 8.3%
(B)	BLENDED TRANSITION/ SIDEWALK - RUNNING SLOPES MAY NOT EXCEED 5%
(C)	TURNING SPACE - CROSS SLOPES AND RUNNING SLOPES MUST NOT EXCEED 2%
(D)	TRANSITION SLAB
(E)	DETECTABLE WARNING SURFACE



PEDESTRIAN CONNECTION DETAIL 3 - PIKE CREEK ROAD & ABBEY LANE  
SCALE 1" = 5'

ADDENDUMS / REVISIONS



PAVEMENT & REHABILITATION  
NORTH I, 2024  
PIKE CREEK ROAD

CONTRACT	ROAD NO.	N316
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

PEDESTRIAN  
IMPROVEMENT  
PLAN

PIP-12

SECTION

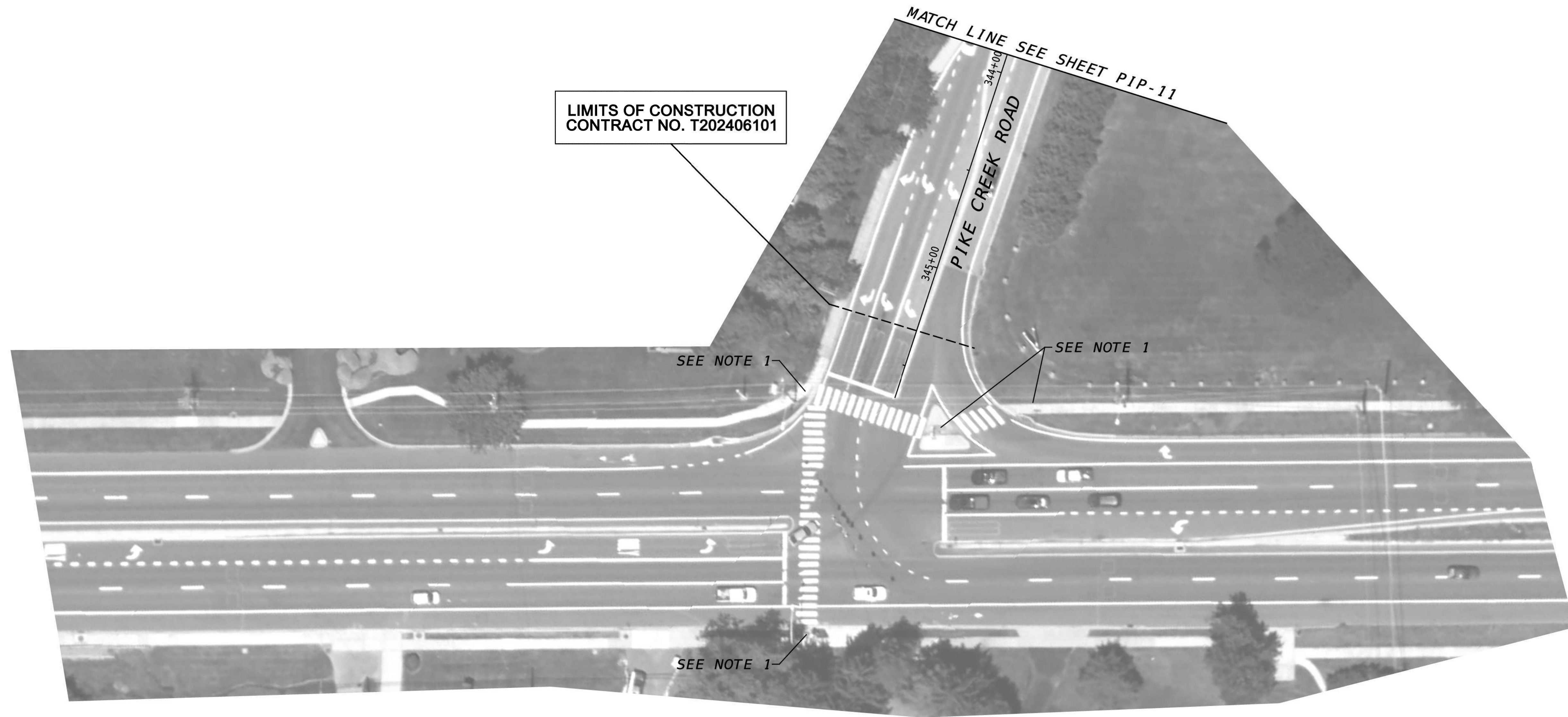
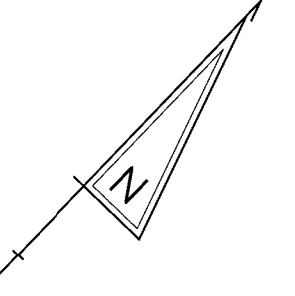
JMT

SHEET NO.

77

**NOTES**

- 1. PEDESTRIAN CONNECTION IS OUTSIDE OF PAVEMENTS LIMITS. REMEDIATION NOT REQUIRED.



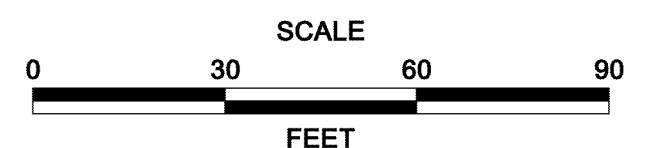
LIMITS OF CONSTRUCTION  
CONTRACT NO. T202406101

SEE NOTE 1

SEE NOTE 1

SEE NOTE 1

ADDENDUMS / REVISIONS



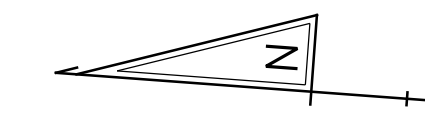
**PAVEMENT & REHABILITATION  
NORTH I, 2024  
PIKE CREEK ROAD**

CONTRACT	ROAD NO.	<b>N316</b>
T202406101	DESIGNED BY : M. TAPLIN	
COUNTY	CHECKED BY: W. DOUGHERTY	
NEW CASTLE		

**PEDESTRIAN  
IMPROVEMENT  
PLAN**

PIP-13
SECTION
JMT
SHEET NO.
78

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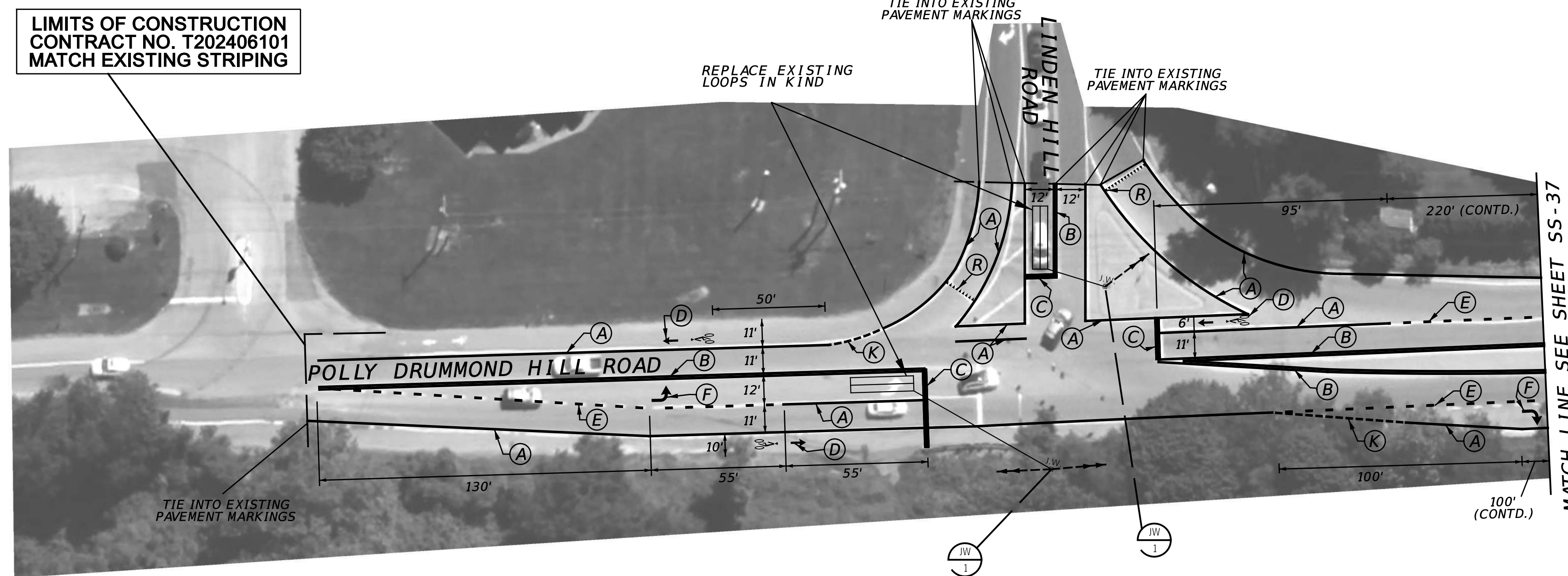
PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	1,600 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	1,325 LF
(C)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	91 SF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	3 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	45 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	34 SF
(K)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 2' GAP (ITEM 817042)	40 LF
(R)	WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, YIELD TEETH (ITEM 817002)	18 SF

SIGNAL LOOP QUANTITIES	
	QUANTITY
PROVIDE & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT (ITEM 846001)	250 LF
PROVIDE & INSTALL A 1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE (ITEM 846002)	20 LF

SIGNAL LEGEND	
PROPOSED LOOP DETECTOR, TYPE 1	
PROPOSED LOOP DETECTOR, TYPE 2	

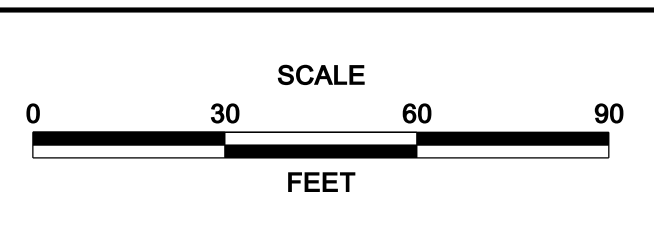
**NOTES:**

- SEE PROJECT NOTES SHEET 3 NOTE 9 FOR ADDITIONAL INFORMATION CONCERNING SIGNAL LOOPS.
- TRAFFIC CONTRACTOR TO INSTALL TEMPORARY DETECTION PER TEMPORARY SIGNAL PLAN PRIOR TO DISCONNECTING LOOPS. TEMPORARY WAVETRONIX DETECTION TO REMAIN DEACTIVATED IN ULTIMATE CONDITION AFTER ULTIMATE LOOP DETECTORS ARE OPERATIONAL.
- CONTACT DELDOT TMC 10 DAYS PRIOR TO DISCONNECTING AND RECONNECTING TRAFFIC SIGNAL DETECTION LOOPS AT 302-659-4600.
- SPlice TRAFFIC SIGNAL DETECTION LOOP WIRES IN THE EXISTING JUNCTION WELLS. DO NOT DISTURB HOME RUN CABLES.
- TRAFFIC SIGNAL CONDUITS AND JUNCTION WELLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY ACTUAL JUNCTION WELL LOCATIONS FOR SPlicing TRAFFIC SIGNAL DETECTION LOOPS.



STATES  
TIMES  
FILES

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION,  
NORTH I, 2024  
POLLY DRUMMOND HILL ROAD**

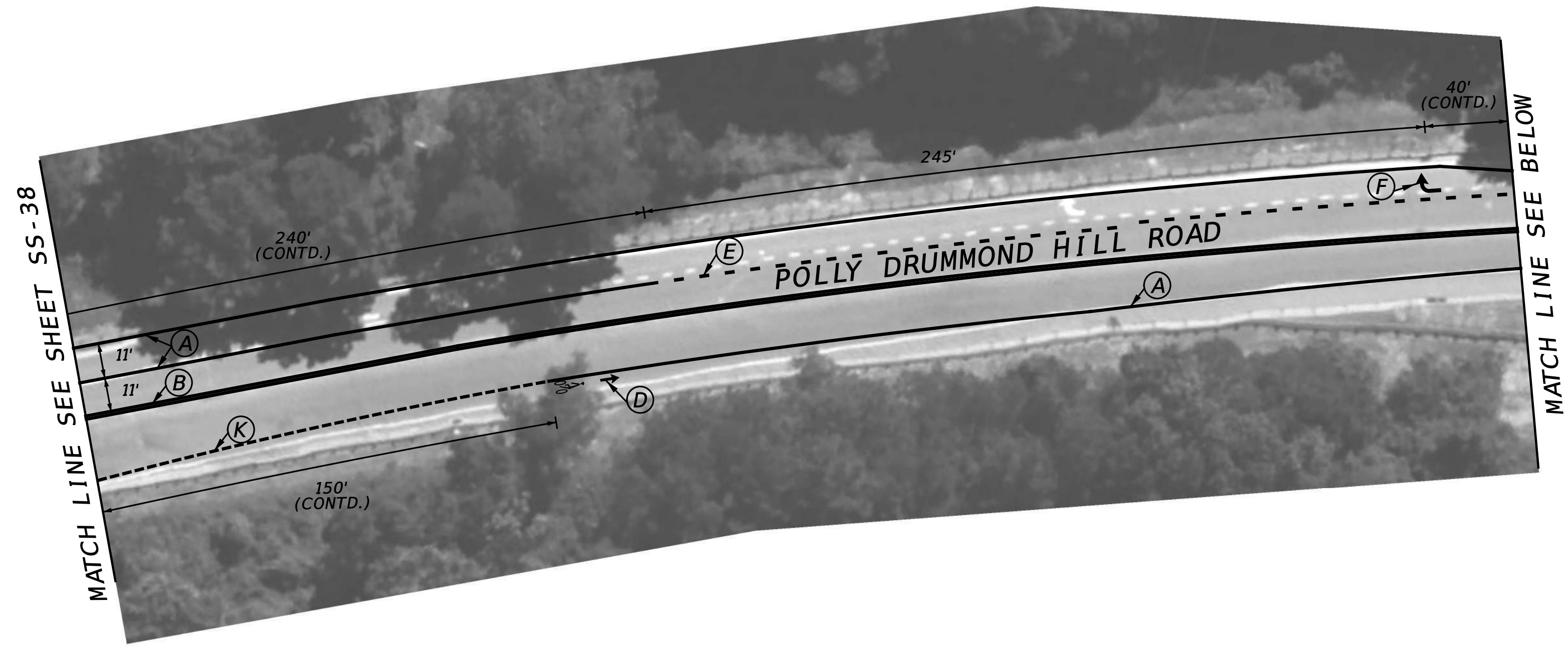
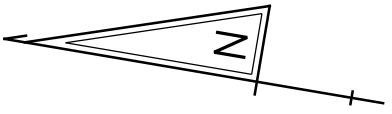
CONTRACT	ROAD NO.	<b>N328</b>
T202406101	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

**SIGNING AND STRIPING PLAN**

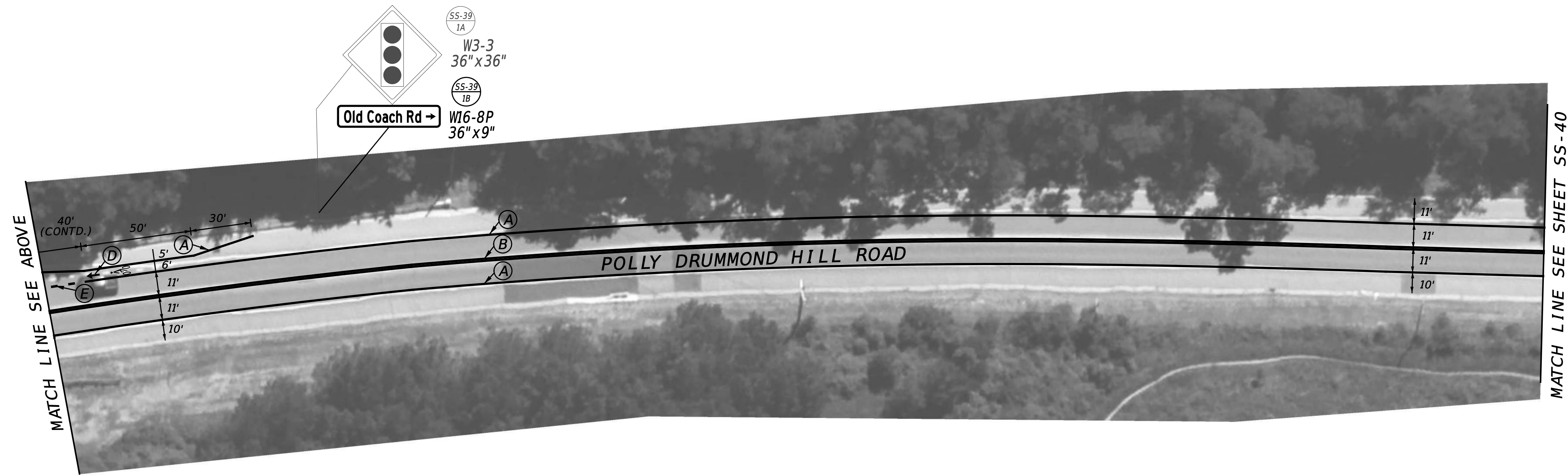
SS-36
SECTION
JMT
SHEET NO.
79





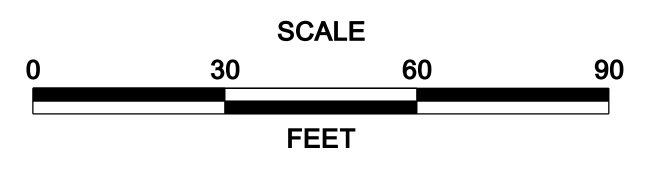


PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,635 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,485 LF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	2 EA
(E)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 6' GAP (ITEM 817042)	80 LF
(F)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	18 SF
(K)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" DOTTED - 2' LINE & 2' GAP (ITEM 817042)	80 LF



STATES  
TIMES  
FILES

ADDENDUMS / REVISIONS

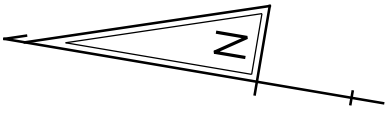


**PAVEMENT & REHABILITATION,  
NORTH I, 2024  
POLLY DRUMMOND HILL ROAD**

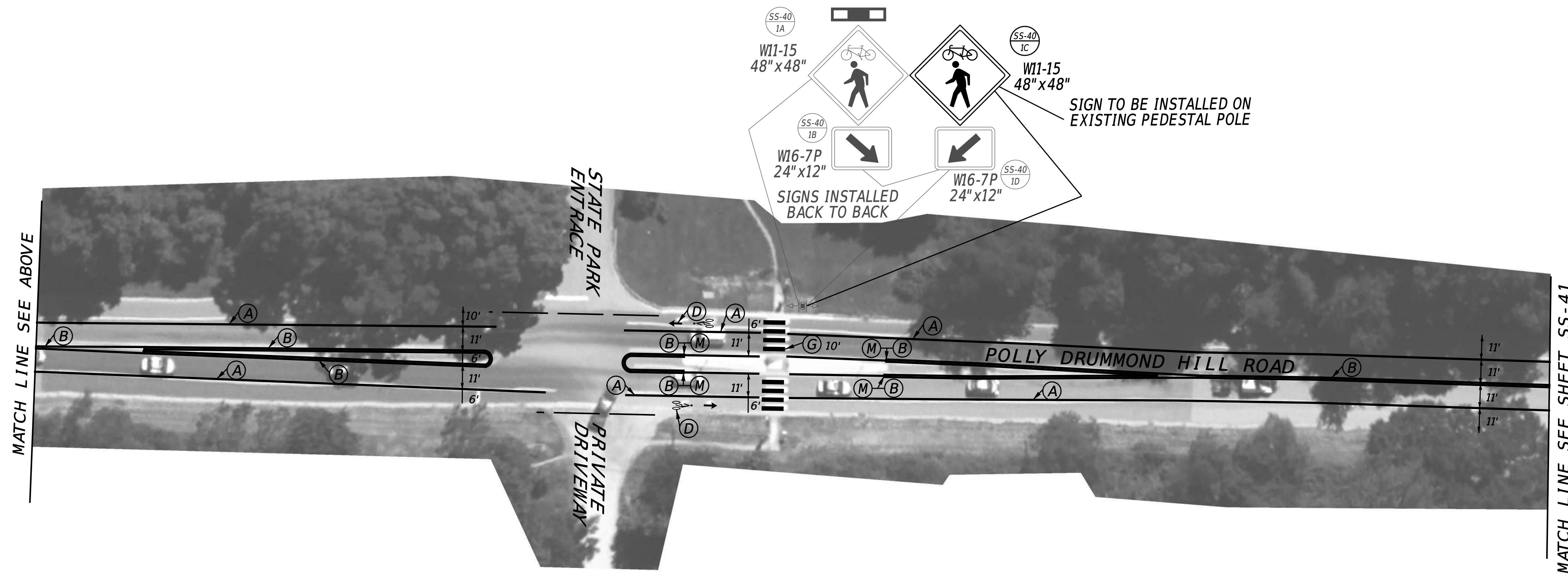
CONTRACT	ROAD NO.	<b>N328</b>
T202406101	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

**SIGNING AND  
STRIPING PLAN**

SS-39
SECTION
JMT
SHEET NO.
82

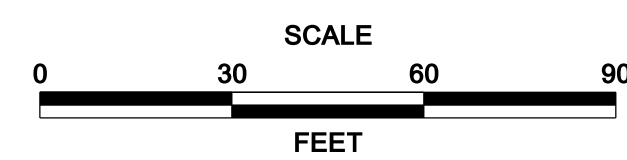


PAVEMENT MARKINGS LEGEND		
SYMBOL		QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,360 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,890 LF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, WHITE BIKE SYMBOL (ITEM 817015)	2 EA
(G)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	176 SF
(M)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID (ITEM 817042)	175 LF



STATES  
TIMES  
FILES

ADDENDUMS / REVISIONS

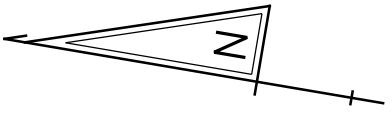


PAVEMENT & REHABILITATION,  
NORTH I, 2024  
POLLY DRUMMOND HILL ROAD

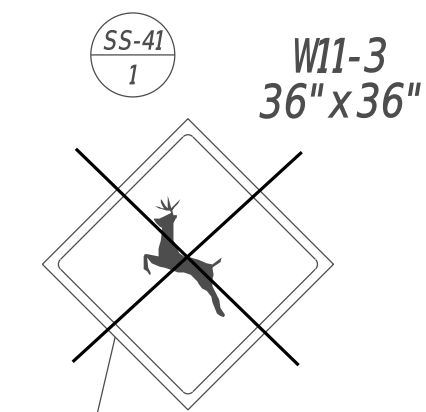
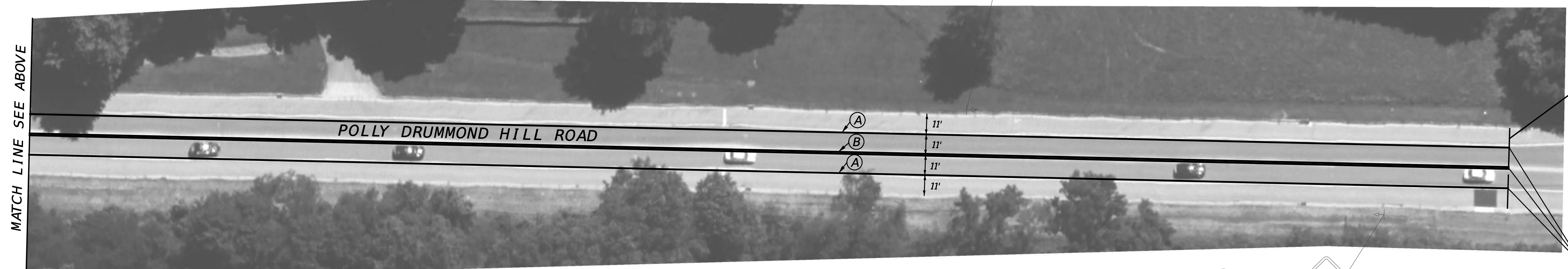
CONTRACT	ROAD NO.	N328
T202406101	DESIGNED BY:	J. CLEM
COUNTY	CHECKED BY:	R. KUSY
NEW CASTLE		

SIGNING AND  
STRIPING PLAN

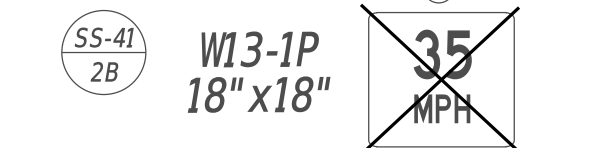
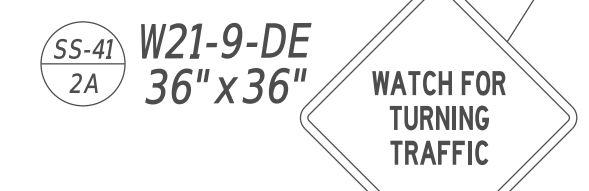
SS-40
SECTION
JMT
SHEET NO.
83



PAVEMENT MARKINGS LEGEND		
SYMBOL	DESCRIPTION	QUANTITY
(A)	EPOXY RESIN PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,750 LF
(B)	EPOXY RESIN PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE (ITEM 817042)	2,750 LF

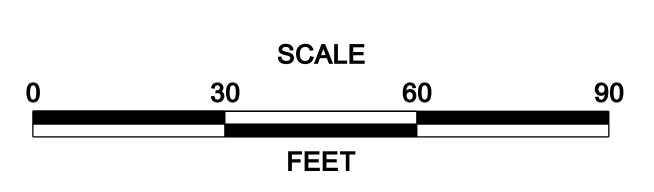


**LIMITS OF CONSTRUCTION**  
 CONTRACT NO. T202406101  
 MATCH EXISTING STRIPING



STATES  
 TIMES  
 \$FILES

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION,  
 NORTH I, 2024  
 POLLY DRUMMOND HILL ROAD**

CONTRACT T202406101	ROAD NO. N328
COUNTY NEW CASTLE	DESIGNED BY: J. CLEM
	CHECKED BY: R. KUSY

**SIGNING AND STRIPING PLAN**

SS-41
SECTION
JMT
SHEET NO.
84

PERMANENT SIGN SCHEDULE - POLLY DRUMMOND HILL ROAD

SHEET NO.	PLAN IDENTIFIER	SIGN DESIGNATION	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	X13 / ITEM 818001 FLAT SHEET ALUMINUM TYPE IV RETROREFLECTIVE SHEETING (SF)	X14 / ITEM 818003 FLAT SHEET ALUMINUM TYPE XI RETROREFLECTIVE SHEETING (SF)	X15 / ITEM 819512 SIGN POST REFLECTIVE PANEL (EA)	ITEM 819018 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE POST (EACH)			ITEM 819019 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS (SF)			POST INSTALLATION TYPE	X16 / ITEM 819011 12' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	X17 / ITEM 819023 15' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	ITEM 819016 4" HOLE 0-6" (EACH)	ITEM 819017 4" HOLE >6" (EACH)	SIGN DISPOSITION	X14A FLAT SHEET ALUMINUM SIGN PANELS (TYPE XI SHEETING) - SIGNS ON POLES, SPAN WIRES, MAST ARMS (TRAFFIC SUPPLY)	ITEM 822500 INSTALL OVERHEAD SIGN (SF) ON SIGNAL POLES TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	ITEM 823003 REMOVAL OF SIGN ON SPAN WIRE OR MAST ARM (EA) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	ITEM 823001 INSTALLATION OF SIGN ON SPAN WIRE OR MAST ARM (SF) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	REMARKS
										SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL											
SS-37	1	W11-1-DE(30)	1	BICYCLE (Symbol) IN LANE - 30x30	30	30	6.3				NEW				SOIL	1										
SS-38	1	W11-1-DE(30)	1	BICYCLE (Symbol) IN LANE - 30x30	30	30	6.3				NEW				SOIL	1										
SS-38	2	W11-1-DE(30)	1	BICYCLE (Symbol) IN LANE - 30x30	30	30	6.3				NEW				SOIL	1										
SS-38	3A	W1-7(48)	1	TWO DIRECTIONAL LARGE ARROW - 48x24	48	24	8.0					NEW														
SS-38	3B	OM4-3	1	END OF ROAD OBJECT MARKER	18	18	2.3				ADD TO ASSEMBLY															
SS-38	3C	OM4-3	1	END OF ROAD OBJECT MARKER	18	18	2.3				ADD TO ASSEMBLY															
SS-39	1A	W3-3(36)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36					REMAIN															
SS-39	1B	W16-8P	1	ADVANCE STREET NAME (I - line plaque)	36	9	2.3				ADD TO ASSEMBLY														"Old Coach Rd" (Highway Font C, 4" Normal Kerning) (Right Arrow)	
SS-40	1A	W11-15(48)	1	BIKE - PEDESTRIAN (Symbol) - 48x48	48	48					REMAIN															
SS-40	1B	W16-7P_R(24)	1	RIGHT DOWNWARD DIAGONAL ARROW (plaque) - 24x12	24	12					REMAIN															
SS-40	1C	W11-15(48)	1	BIKE - PEDESTRIAN (Symbol) - 48x48	48	48					REMAIN									NEW (POLE)	16.0	16.0			SIGN TO BE INSTALLED ON EXISTING PEDESTAL POLE	
SS-40	1D	W16-7P_L(24)	1	LEFT DOWNWARD DIAGONAL ARROW (plaque) - 24x12	24	12					REMAIN															
SS-41	1	W11-3(36)	1	DEER (Symbol) - 36x36	36	36					REMOVE	1														
SS-41	2A	W21-9-DE(36)	1	WATCH FOR TURNING TRAFFIC - 36x36	36	36					REMAIN															
SS-41	2B	W13-1P-35(18)	1	ADVISORY SPEED (35 MPH) 18x18	18	18					REMOVE	1														
<b>PAGE TOTALS</b>							34	0	0							5	0	0	0		16	16	0	0		

PERMANENT SIGN SCHEDULE - POLLY DRUMMOND ROAD & OLD COACH ROAD SIGNAL MOUNTED SIGNS

SHEET NO.	PLAN IDENTIFIER	SIGN DESIGNATION	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	X13 / ITEM 818001 FLAT SHEET ALUMINUM TYPE IV RETROREFLECTIVE SHEETING (SF)	X14 / ITEM 818003 FLAT SHEET ALUMINUM TYPE XI RETROREFLECTIVE SHEETING (SF)	X15 / ITEM 819512 SIGN POST REFLECTIVE PANEL (EA)	ITEM 819018 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE POST (EACH)			ITEM 819019 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS (SF)			POST INSTALLATION TYPE	X16 / ITEM 819011 12' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	X17 / ITEM 819023 15' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	ITEM 819016 4" HOLE 0-6" (EACH)	ITEM 819017 4" HOLE >6" (EACH)	SIGN DISPOSITION	X14A FLAT SHEET ALUMINUM SIGN PANELS (TYPE XI SHEETING) - SIGNS ON POLES, SPAN WIRES, MAST ARMS (TRAFFIC SUPPLY)	ITEM 822500 INSTALL OVERHEAD SIGN (SF) ON SIGNAL POLES TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	ITEM 823003 REMOVAL OF SIGN ON SPAN WIRE OR MAST ARM (EA) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	ITEM 823001 INSTALLATION OF SIGN ON SPAN WIRE OR MAST ARM (SF) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	REMARKS	
										SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL												
91	S-1	D3-1(18)	1	STREET NAME (OVERHEAD) - 1 LINE	84	18		10.5																	10.5	(left arrow) Old Coach Rd (Highway Font D, 8'/6" Normal Kerning, Installed on Mast Arm)	
91	S-2	D3-1(18)	1	STREET NAME (OVERHEAD) - 1 LINE	84	18		10.5																	10.5	"Old Coach Rd (right arrow)" (Highway Font D, 8'/6" Normal Kerning, Installed on Mast Arm, printed on back of S-1)	
91	S-3	R3-4(36)	1	U - TURN PROHIBITION (Symbol) - 36x36 (OVERHEAD)	36	36		9.0																9.0	Mounted on Mast Arm		
91	S-4	D3-1(18)	1	STREET NAME (OVERHEAD) - 1 LINE	120	18		15.0																15.0	"Polly Drummond Hill Rd" (Highway Font D, 8'/6" Normal Kerning, Installed on Mast Arm)		
92	S-5	W3-3-DE2	1	RED SIGNAL AHEAD WHEN FLASHING - 48x48	48	48	20.0																	20.0	"RED SIGNAL AHEAD WHEN FLASHING" (Diamond Shape Sign, Installed on Pedestal Pole)		
92	S-6	W16-8P	1	ADVANCE STREET NAME (I - line plaque)	48	9	3.0																	3.0	"(left arrow) Old Coach Rd", Mounted to pedestal pole		
92	S-7	W3-3-DE (CUSTOM)	1	RED SIGNAL AHEAD WHEN FLASHING (CUSTOM) - 60x60	60	60																1.0		Remove Existing Sign on Pedestal Pole			
<b>PAGE TOTALS</b>							23	45	0							0	0	0	0		68	23	1	45			
<b>JOB TOTALS</b>							254	200	0				41	69		8	16		29	0	0	0		84	39	1	45

ADDENDUMS / REVISIONS

NOT TO SCALE

PAVEMENT & REHABILITATION,  
NORTH I, 2024  
POLLY DRUMMOND HILL ROAD

CONTRACT  
T202406101  
COUNTY  
NEW CASTLE

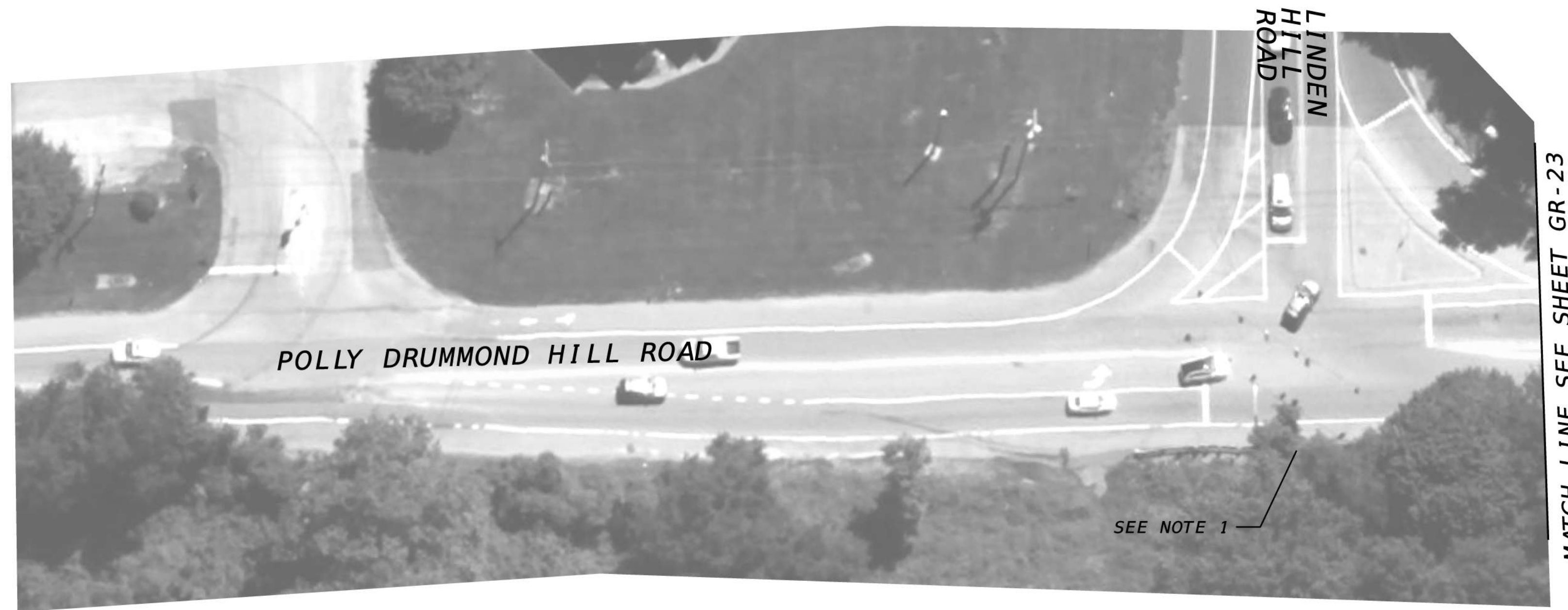
ROAD NO. N328  
DESIGNED BY: J. CLEM  
CHECKED BY: R. KUSY

PERMANENT  
SIGN SCHEDULE

SECTION  
JMT  
SHEET NO.  
85

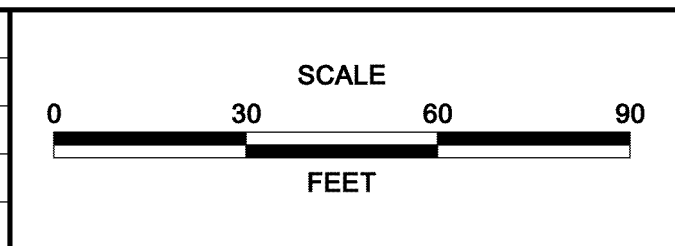
NOTES:

1. EXISTING GUARDRAIL IS LESS THAN 31". EXISTING UTILITY POLE WITHIN THE DEFLECTION DISTANCE PREVENTS THE GUARDRAIL TO BE COMPLIANT WITH MASH AND DELDOT STANDARD GUARDRAIL DETAILS. RELOCATING THE UTILITY POLE TO IMPROVE THE GUARDRAIL SYSTEM IS OUTSIDE OF THE SCOPE OF THE PAVEMENT & REHABILITATION PROJECTS.



7-AUG-2024 10:05 pwl/jmt/pw.bentley.com:jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/GR Files/GR - Polly Drummond Rd.dgn

ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
POLLY DRUMMOND HILL ROAD**

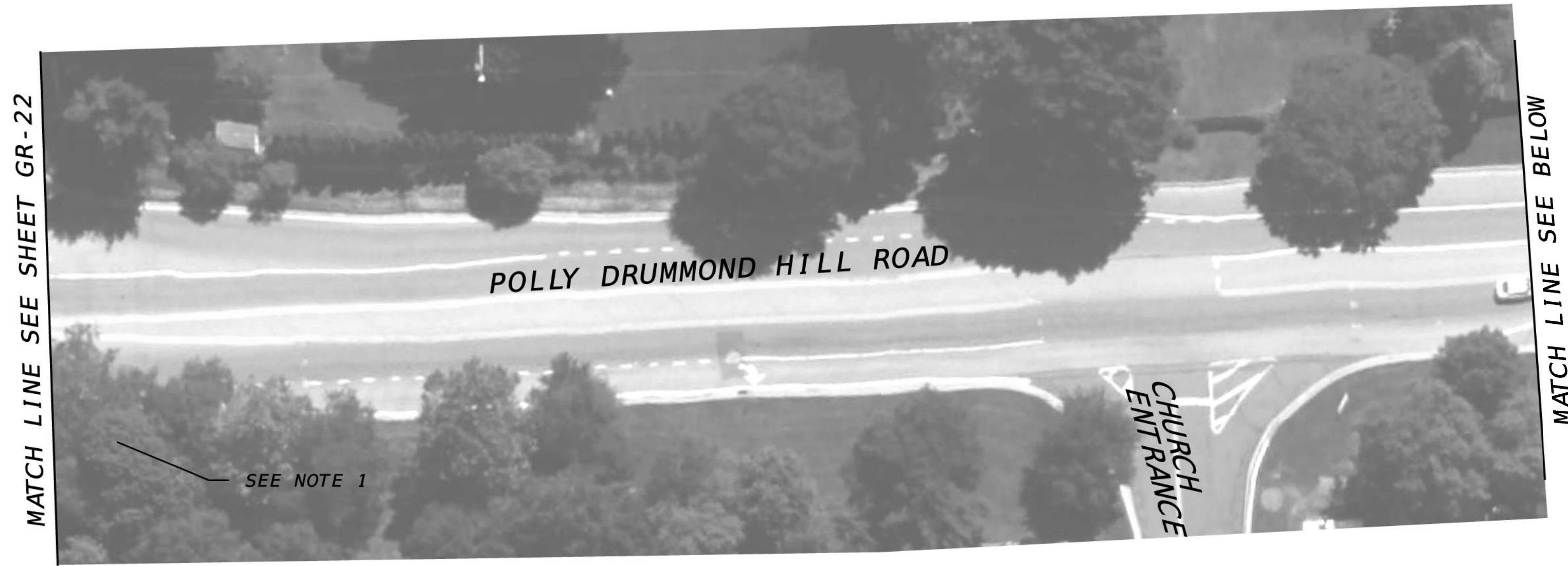
CONTRACT	ROAD NO.	<b>N328</b>
T202406101	DESIGNED BY : M. TAPLIN	
COUNTY	CHECKED BY: B. DOUGHERTY	
NEW CASTLE		

**GUARDRAIL PLANS**

<b>GR-22</b>
SECTION
JMT
SHEET NO.
86

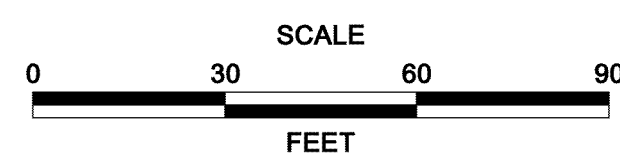
NOTES:

- EXISTING GUARDRAIL IS LESS THAN 31" EXISTING UTILITY POLE WITHIN THE DEFLECTION DISTANCE PREVENTS THE GUARDRAIL TO BE COMPLIANT WITH MASH AND DELDOT STANDARD GUARDRAIL DETAILS - RELOCATING THE UTILITY POLE IS OUTSIDE OF THE SCOPE OF THE PAVEMENT & REHABILITATION PROJECTS.



7-AUG-2024 19:06 p:\jmt-pw-bentley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\GR Files\GR - Polly Drummond Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
POLLY DRUMMOND HILL ROAD**

CONTRACT	ROAD NO.	<b>N328</b>
T202406101	DESIGNED BY : M. TAPLIN	
COUNTY	CHECKED BY: B. DOUGHERTY	
NEW CASTLE		

**GUARDRAIL PLANS**

<b>GR-23</b>
SECTION
JMT
SHEET NO.
87



GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
301	END TREATMENT, ATTENUATOR TYPE 1	424+23.43	27.88	50.00
302	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	424+76.56	23.00	125.00
303	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 2-31	426+04.51	23.00	62.50
304	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	426+63.88	23.00	437.50

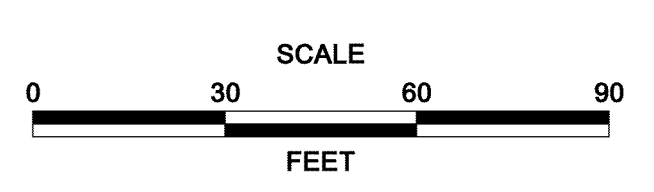
**NOTES**

1. SEE STANDARD DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
2. SEE STANDARD DETAIL B-1, TYPE 2-31 GUARDRAIL APPLICATION.
3. SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.



7-AUG-2024  
 10:08  
 p:\jmt-pw-bentley.com\jmt-pw-01\Documents\Projects\2019\19-00797-002\JMT\General\2D Drawing\GR Files\GR - Polly Drummond Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
POLLY DRUMMOND HILL ROAD**

CONTRACT	ROAD NO.	<b>N328</b>
T202406101	DESIGNED BY:	M. TAPLIN
COUNTY	CHECKED BY:	B. DOUGHERTY
NEW CASTLE		

**GUARDRAIL PLANS**

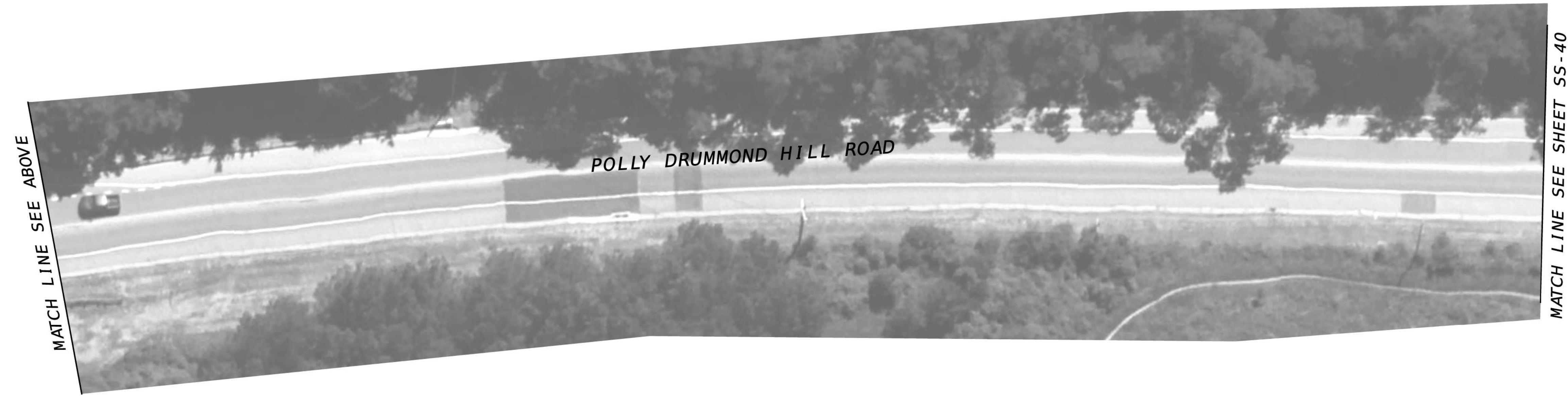
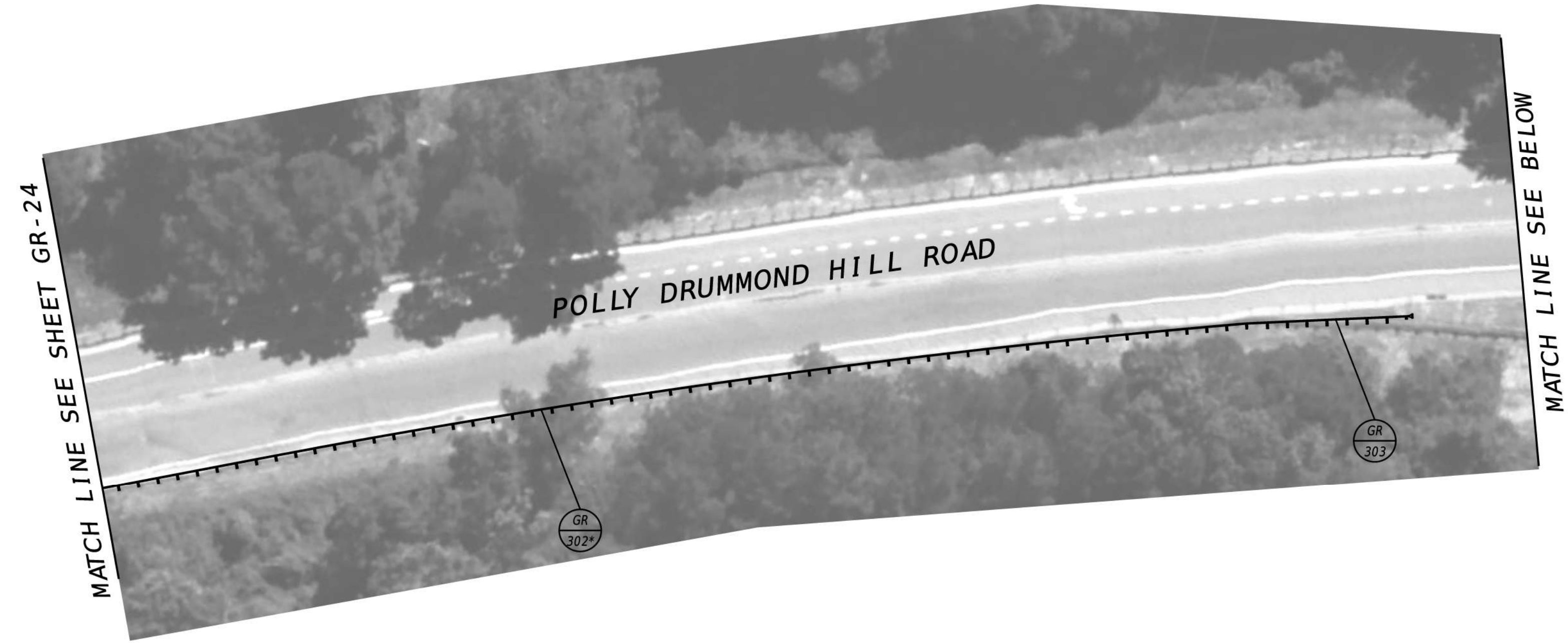
<b>GR-24</b>
SECTION
JMT
SHEET NO.
88

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
304	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	424+76.56	23.00	*
305	END TREATMENT, ATTENUATOR TYPE 1	431+04.02	23.00	50.00

\* QUANTITY SHOWN ON SHEET GR-23

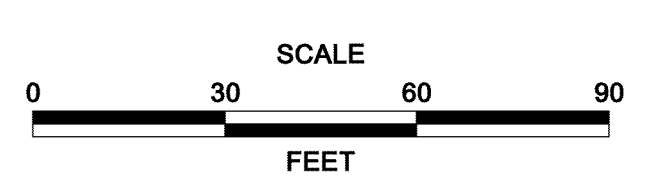
**NOTES**

- SEE STANDAR DETAIL B-1, TYPE 1-31 GUARDRAIL APPLICATION.
- SEE STANDARD DETAIL B-2, GUARDRAIL END TREATMENT ATTENUATOR TYPE 1-31.



7-AUG-2024 10:10 pwt/jmt/pw.bentley.com:jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/GR/GR - Polly Drummond Rd.dgn

ADDENDUMS / REVISIONS	



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
POLLY DRUMMOND HILL ROAD**

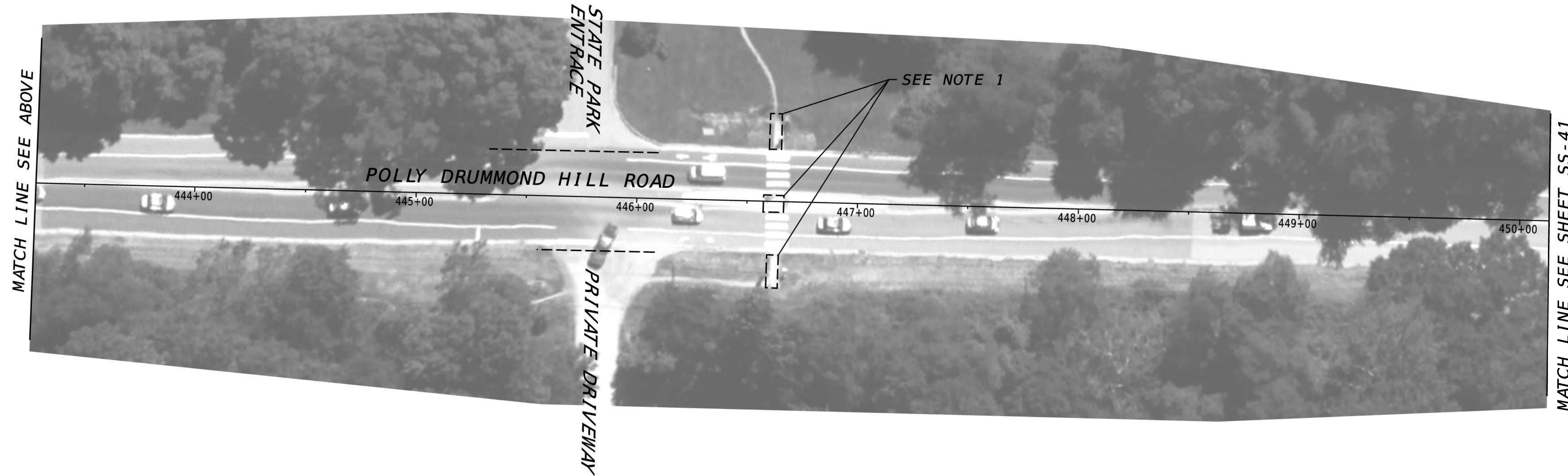
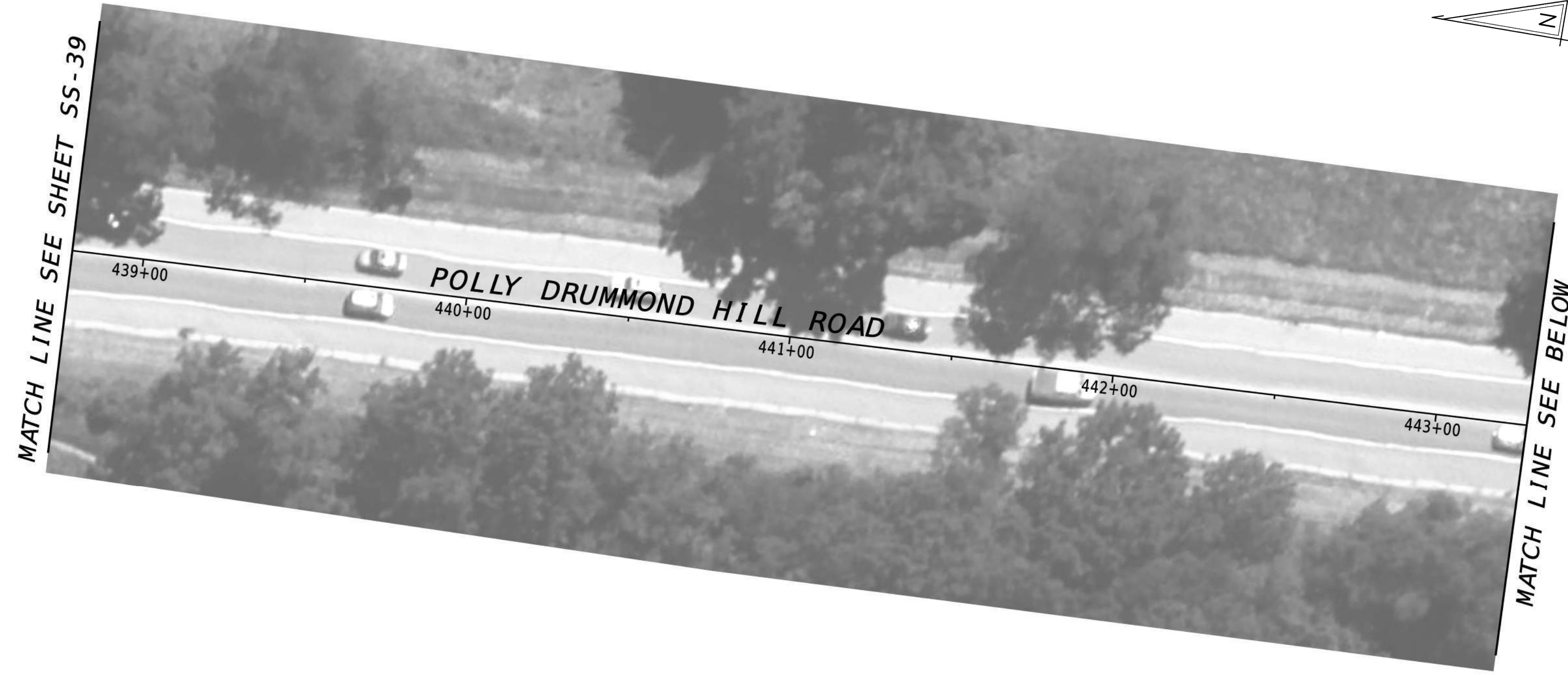
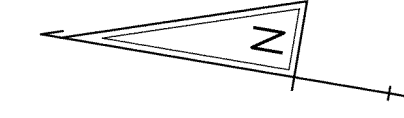
CONTRACT	ROAD NO.	<b>N328</b>
T202406101	DESIGNED BY: M. TAPLIN	
COUNTY	CHECKED BY: B. DOUGHERTY	
NEW CASTLE		

**GUARDRAIL PLANS**

<b>GR-25</b>
SECTION
JMT
SHEET NO.
89

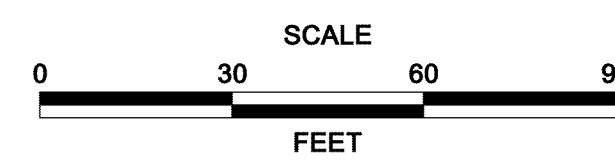
**NOTES**

1. THE PEDESTRIAN CONNECTION MEETS MINIMUM COMPLIANCE CRITERIA. MAINTENANCE REQUIRED TO ADDRESS OVERGROWTH AND DEBRIS.



7-AUG-2024 2:23:26 pm://jmt-pw-bentley.com/jmt-pw-01/Documents/Projects/2019/19-00797-002/JMT/General/2D Drawing/ADA Design/PR - Polly Drummond Rd.dgn

ADDENDUMS / REVISIONS



**PAVEMENT & REHABILITATION  
NORTH I, 2024  
POLLY DRUMMOND HILL ROAD**

CONTRACT	ROAD NO.	<b>N328</b>
T202406101	DESIGNED BY : M. TAPLIN	
COUNTY	CHECKED BY: B. DOUGHERTY	
NEW CASTLE		

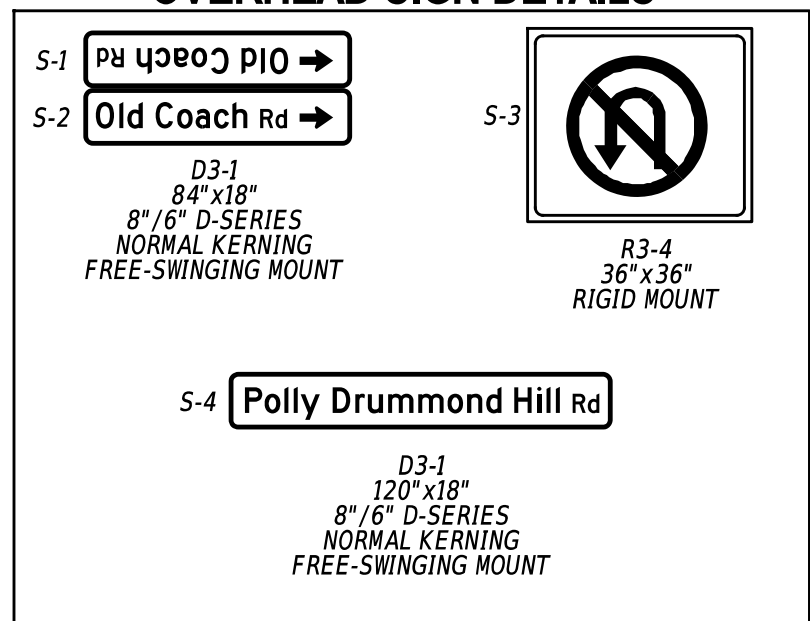
**PEDESTRIAN  
IMPROVEMENT  
PLAN**

<b>PIP-14</b>
SECTION
JMT
SHEET NO.
90

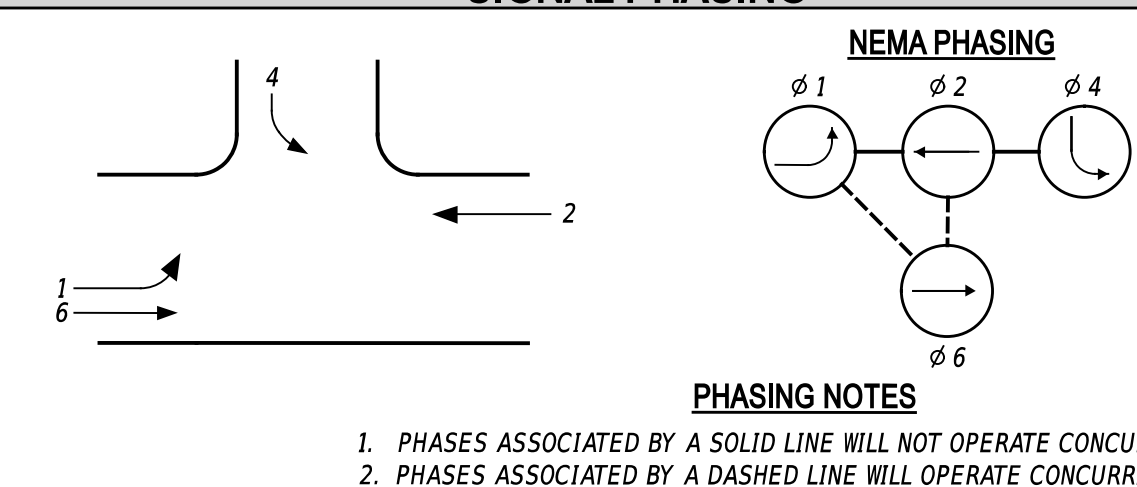
**ADDITIONAL GENERAL SIGNAL NOTES**

- POLE BASES, CABINET BASES, AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITH SECTION 211 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER, AND SHALL BE PAID BY ITEM #211000. DELDOT'S TRAFFIC CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE POLES AND ASSOCIATED SIGNAL EQUIPMENT, AND CABINET. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF THE POLE FOUNDATIONS. ABANDON EXISTING CONDUIT AS NOTED. TRAFFIC CONTRACTOR SHALL REMOVE ANY CABLES IN CONDUITS TO BE ABANDONED.
- INSTALL BACKPLATES FOR ALL SIGNAL HEADS. INSTALL A 2" RETROREFLECTIVE YELLOW STRIP ON THE BORDER OF THE NEW BACKPLATES.
- MAINTAIN EXISTING POWER SOURCE AT DELMARVA POWER POLE #44050-42178
- EXISTING RIGHT OF WAY LINES ARE BASED ON THE EXISTING SIGNAL PLANS AND OTHER AS-BUILT PLANS (CONTRACT NO. 69-11-001) AND ARE SHOWN APPROXIMATELY FOR GRAPHICAL PURPOSES ONLY.
- MAINTAIN THE EXISTING SIGNAL CONTROLLER CABINET AND POWER SOURCE UNTIL THE PROPOSED SIGNAL CONTROLLER CABINET IS OPERATIONAL AND IS POWERED BY THE PROPOSED POWER SOURCE. THE SIGNAL SHALL BE OPERATIONAL THROUGHOUT CONSTRUCTION.
- REMOVE EXISTING SPAN WIRE, OVERHEAD SIGNAL CABLES, AND SIGNAL HEADS.
- THE LOCATIONS FOR THE EXISTING UTILITIES ARE BASED ON THE AS-BUILT PLANS AS WELL AS INFORMATION OBTAINED FROM THE FOLLOWING UTILITY COMPANIES: CHESAPEAKE UTILITIES CORPORATION, DELMARVA POWER & GAS, AND CROWN CASTLE.
- REFER TO THE NOTES SHEET OF THE CONTRACT FOR MORE INFORMATION REGARDING ALLOWABLE LANE CLOSURE TIMES AND TYPICAL APPLICATIONS FOR MAINTENANCE OF TRAFFIC DIRECTION DURING CONSTRUCTION.
- INSTALL CDMA IN THE PROPOSED TRAFFIC CONTROLLER CABINET.
- ONCE THE FINAL WEARING COURSE HAS BEEN CONSTRUCTED, INSTALL LOOP DETECTORS AND HOME RUN CABLES AS SHOWN.
- THE ENGINEER SHALL NOTIFY DELDOT TRAFFIC/TMC AT LEAST 10 DAYS PRIOR TO ANY CHANGES TO THE TRAFFIC SIGNAL OPERATION, AS WELL AS PRIOR TO THE CUTTING OF ANY DETECTION LOOPS. THE CONTRACTOR SHALL HAVE THE CORRESPONDING SIGNAL TIMESHEET ISSUED VIA DELDOT TRAFFIC/TMC PRIOR TO MODIFYING THE TRAFFIC SIGNAL OPERATION.
- REMOVE THE EXISTING "RED SIGNAL AHEAD WHEN FLASHING" BEACON ASSEMBLY ALONG SOUTHBOUND POLLY DRUMMOND HILL ROAD. INSTALL A NEW "RED SIGNAL AHEAD WHEN FLASHING" BEACON ASSEMBLY ON A NEW PEDESTAL POLE. SEE NEXT SHEET FOR ASSEMBLY DETAILS AND POLE LOCATION.
- CLEAR VEGETATION AS NEEDED IN THE VICINITY OF POLE 1 AND THE CORRESPONDING MAST ARMS.
- INSTALL CCTV CAMERA (PERMIT NO. NCAM277) ON TOP OF POLE 1 AS SHOWN ON PLAN. INSTALL CAMERA EQUIPMENT IN SIGNAL CABINET.
- INSTALL PASSAGE DETECTION LOOPS ALONG POLLY DRUMMOND HILL ROAD IN THE THROUGH TRAVEL LANES, 300' IN ADVANCE OF THE STOP BAR, IN ACCORDANCE WITH TABLE IV-7 FROM THE 2015 DELDOT TRAFFIC DESIGN MANUAL.
- INSTALL 1' POLE BASE EXTENSION FOR POLE #1 AS NEEDED TO ADJUST FOR SLOPE.
- SEE THE TEMPORARY DETECTION DETAIL ON SHEET 2 OF THIS SIGNAL PLAN FOR THE INSTALLATION OF THE TEMPORARY WAVETRONIX MATRIX DETECTORS. ONCE ALL OF THE PROPOSED SIGNAL EQUIPMENT IS OPERATIONAL, RELOCATE THE WAVETRONIX DETECTORS FROM THE STRAIN POLES TO THE MAST ARMS AS SHOWN ON THE PLAN. ENSURE THAT THE DETECTORS OPERATE PROPERLY. ADJUST DETECTION ZONES TO MATCH THE PERMANENT STRIPING CONDITION AS NEEDED. DEACTIVATE THE WAVETRONIX SYSTEM IN THE CONTROLLER CABINET IN THE PERMANENT CONDITION. THE SYSTEM WILL REMAIN IN PLACE FOR FUTURE USE.

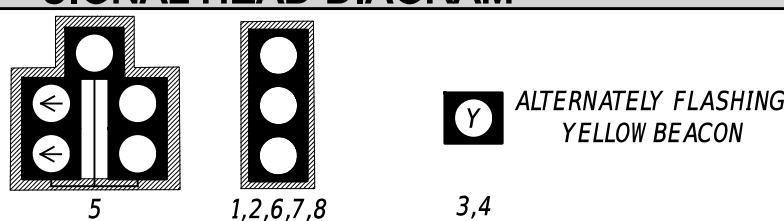
**OVERHEAD SIGN DETAILS**



**SIGNAL PHASING**



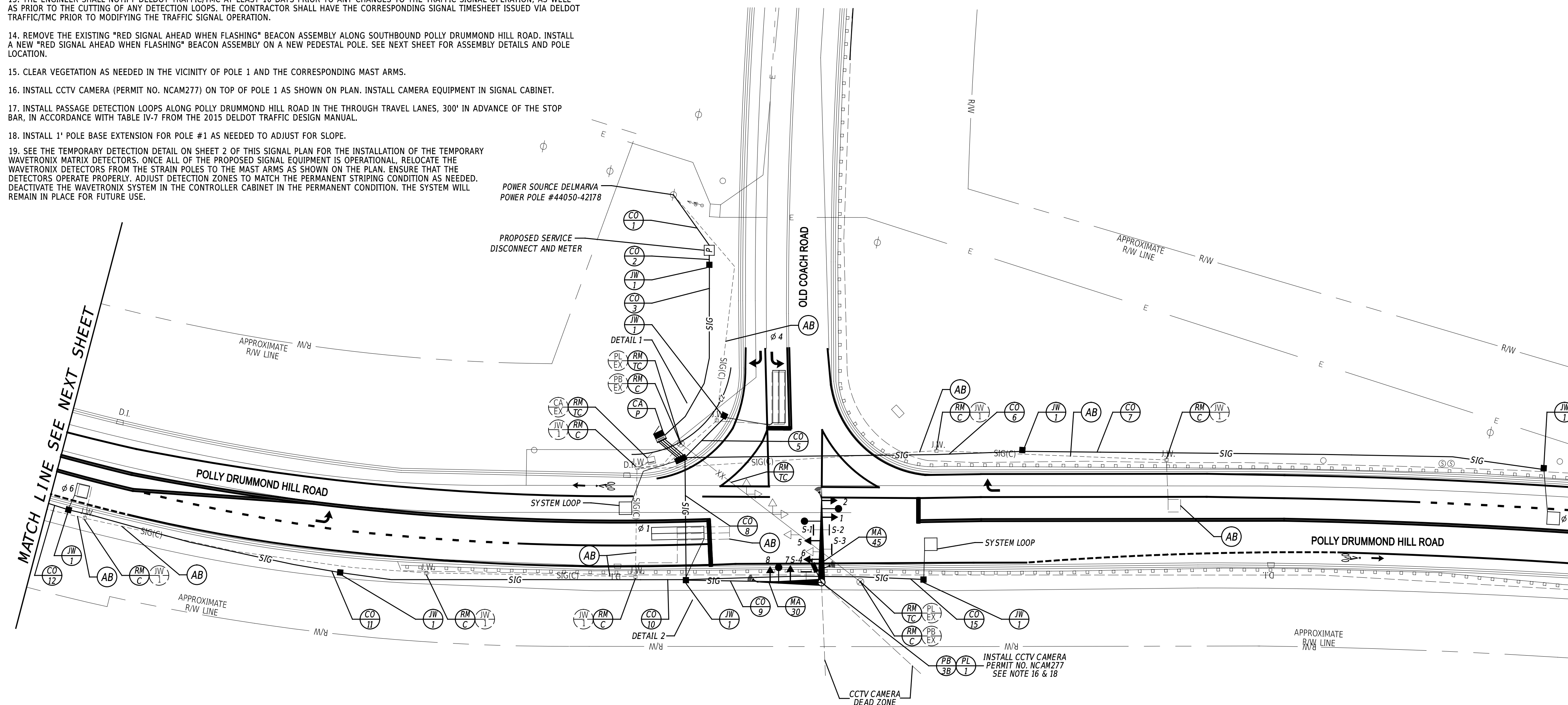
**SIGNAL HEAD DIAGRAM**



**LEGEND**

(AB)	ABANDON	(OH)	EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
(CA)	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	(OH)	PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
(CA)	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	(PB)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	(PB)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	(PL)	EXISTING POLE IDENTIFIER (# OF POLE)
(JW)	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(PL)	PROPOSED POLE IDENTIFIER (# OF POLE)
(JW)	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(RM)	REMOVE BY CONTRACTOR
(MA)	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY OTHERS
(MA)	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1	[Symbol]	[Symbol]
LOOP DETECTOR, TYPE 2	[Symbol]	[Symbol]
LUMINAIRE	[Symbol]	[Symbol]
MAST ARM	[Symbol]	[Symbol]
MICROWAVE DETECTION	[Symbol]	[Symbol]
OPTICOM RECEIVER	[Symbol]	[Symbol]
OVERHEAD SIGNING	[Symbol]	[Symbol]
PEDESTRIAN POLE/BASE	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON	[Symbol]	[Symbol]
PEDESTRIAN SIGNAL HEAD	[Symbol]	[Symbol]
RIGHT-OF-WAY	[Symbol]	[Symbol]
SERVICE PEDESTAL	[Symbol]	[Symbol]
SIGNAL CABINET	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL POLE/BASE	[Symbol]	[Symbol]
CCTV CAMERA	[Symbol]	[Symbol]
SPAN WIRE	[Symbol]	[Symbol]
UTILITY POLE	[Symbol]	[Symbol]
VIDEO DETECTION	[Symbol]	[Symbol]



**CONDUIT RUN SCHEDULE**

CO NO.	NO. OF CONDUITS	SIZE/TYPE	LENGTH	INSTALL METHOD	AMOUNT AND TYPE OF CABLE / WIRE
1	1	2" -RGS	30'	T	NEW [(3) #8 THHN]
2	1	2" -RGS	5'	T	NEW [(1)2/#8 U.F. W/ GROUND]
3	1	2" -RGS	95'	T	NEW [(1)2/#8 U.F. W/ GROUND]
4	4	4" -PVC	15'	T	NEW [(1)16/#14, (1)4/#14, (3)4/#18, (6)2/#14, (1) CAT6 CCTV CABLE, (3) WAVETRONIX MATRIX CABLES, (3)1/#6 GRD]
5	1	4" -PVC	15'	T	NEW [(1)2/#14, (1)1/#6 GRD]
6	1	4" -HDPE	160'	B	NEW [(1)2/#14, (1)1/#6 GRD]
7	1	4" -PVC	250'	T	NEW [(1)2/#14, (1)1/#6 GRD]
8	1	4" -HDPE	70'	B	NEW [(1)16/#14, (1)4/#14, (3)4/#18, (3)2/#14, (1) CAT6 CCTV CABLE, (3) WAVETRONIX MATRIX CABLES, (1)1/#6 GRD]
9	1	3" -PVC	65'	T	NEW [(1)16/#14, (3)4/#18, (1) CAT6 CCTV CABLE, (3) WAVETRONIX MATRIX CABLES, (1)1/#6 GRD]
10	1	4" -PVC	170'	T	NEW [(1)4/#14, (1)2/#14, (1)1/#6 GRD]
11	1	4" -PVC	135'	T	NEW [(1)4/#14, (1)2/#14, (1)1/#6 GRD]
12	1	4" -PVC	145'	T	NEW [(1)4/#14, (1)1/#6 GRD]
13	1	4" -PVC	145'	T	NEW [(1)4/#14, (1)1/#6 GRD]

**POLE SCHEDULE**

POLE NO.	TYPE	NORTHING	EASTING
1	45' & 30' MAST ARMS W/ TYPE 3B POLE BASE	623379.7748	573317.3314
2	14' PEDESTAL POLE W/ TYPE 6B POLE BASE	624020.1303	573231.1510

**MAST ARM SCHEDULE**

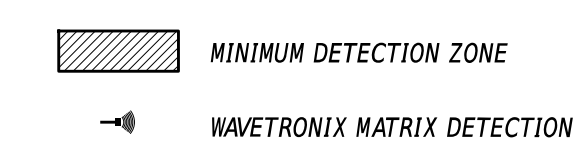
MA NO.	HEIGHT OF POLE	LENGTH OF ARM	NO. OF HEADS	NO. OPT/COM RECEIVERS	S.F. OF SIGNING	ARM MOUNT HEIGHT
1	21'-6"	45'	4	2	10.5	20'-0"
2	21'-6"	30'	2	1	15	18'-6"

**CONDUIT RUN SCHEDULE**

CO NO.	NO. OF CONDUITS	SIZE/TYPE	LENGTH	INSTALL METHOD	AMOUNT AND TYPE OF CABLE / WIRE
14	1	2.5" -PVC	10'	T	NEW [(1)4/#14, (1)1/#6 GRD]
15	1	4" -PVC	115'	T	NEW [(1)2/#14, (1)1/#6 GRD]

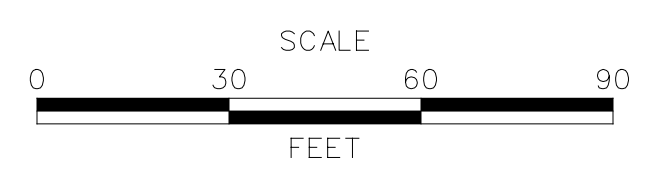
\* DENOTES EXISTING CONDUIT RUN.  
TYPES: HDPE, PVC, RGS, EX = EXISTING  
INSTALL METHODS: B=BORE, IB=IN BARRIER, OC=OPEN CUT, OS=ON STRUCTURE, T=TRENCH

**ADDITIONAL LEGEND**



**ADDENDA / REVISIONS**

NO.	DESCRIPTION



**PAVEMENT & REHABILITATION NORTH I, 2024 POLLY DRUMMOND HILL ROAD**

CONTRACT	T202406103	PERMIT NO.	N258, NCAM277
COUNTY	NEW CASTLE	DESIGNED BY:	S. BUNITSKY/J. SMITH
CHECKED BY:	M. WAHED	DATE	7/16/24

**SIGNAL PLAN POLLY DRUMMOND HILL ROAD @ OLD COACH ROAD**

SECTION	JMT
SHEET NO.	91

**PREPARED BY**  
  
 Mr. A. Wahed  
 7/16/24  
 DATE

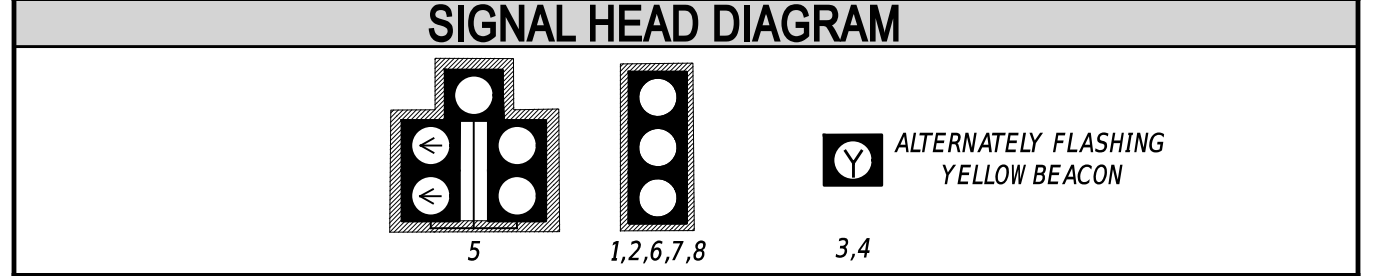
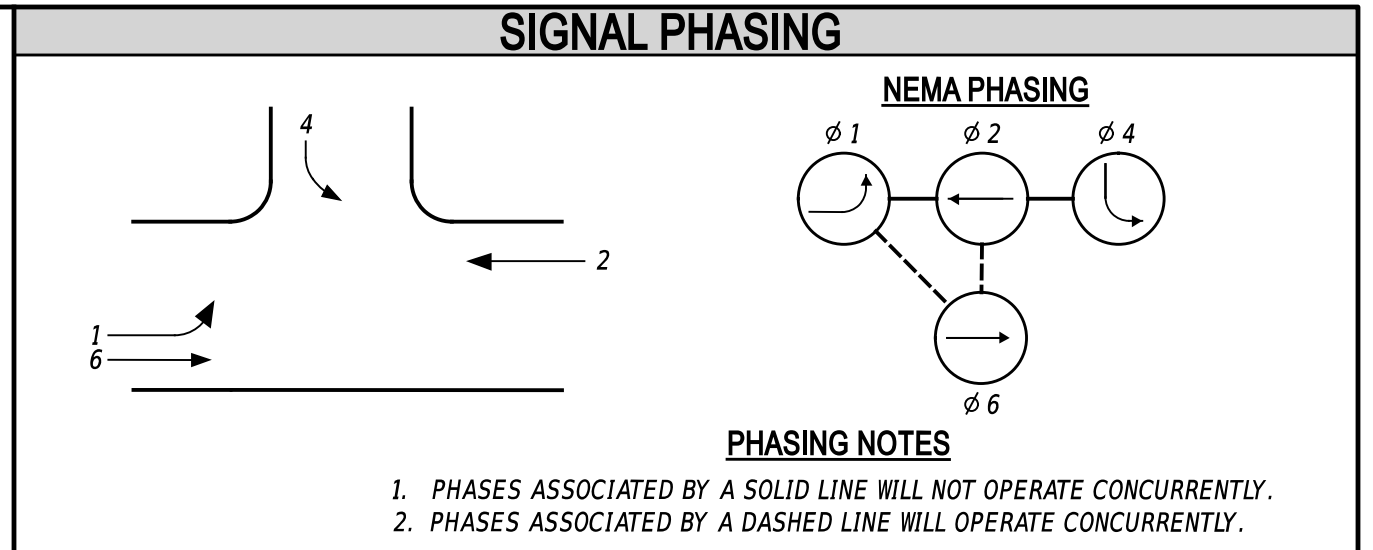
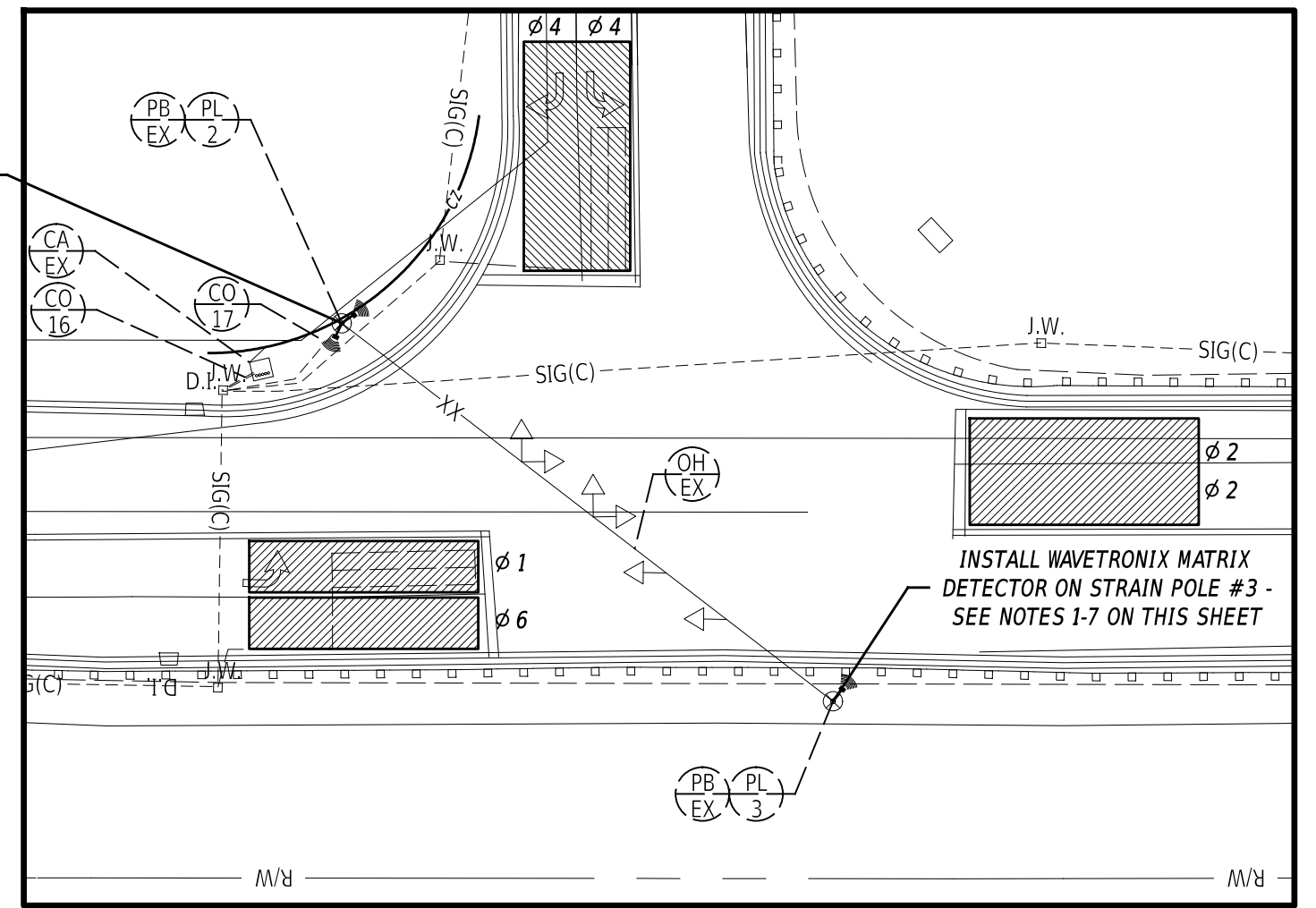
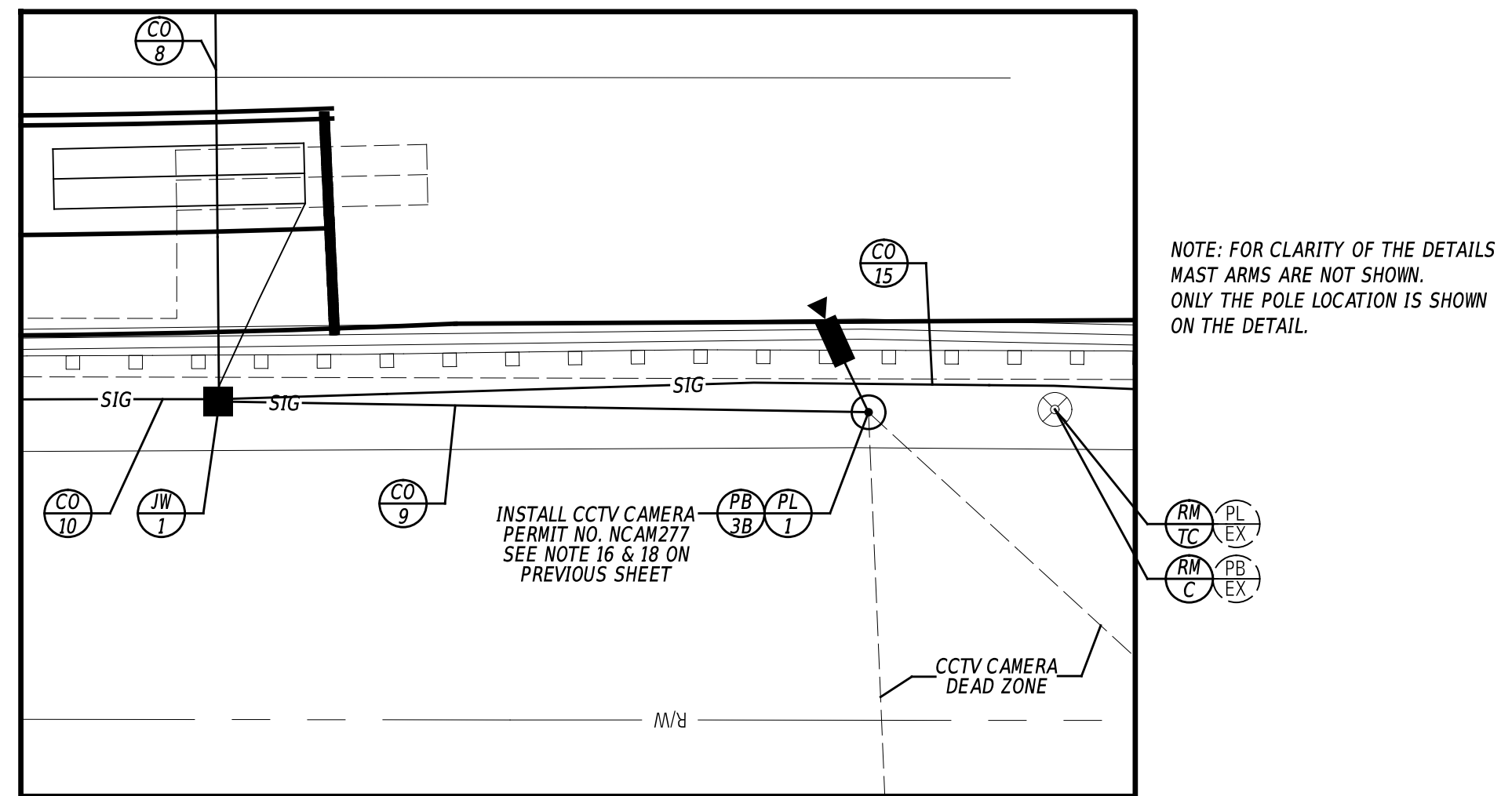
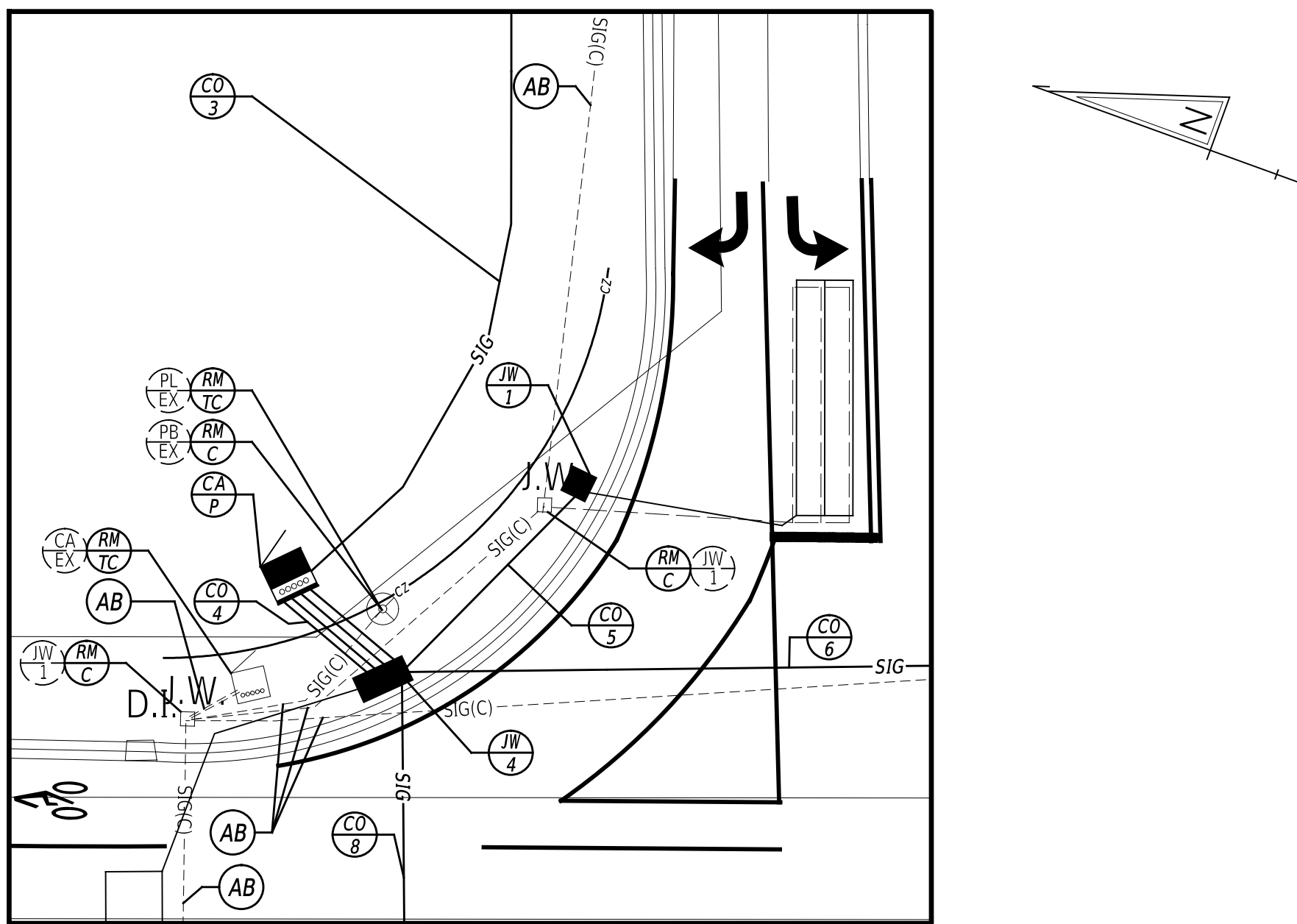
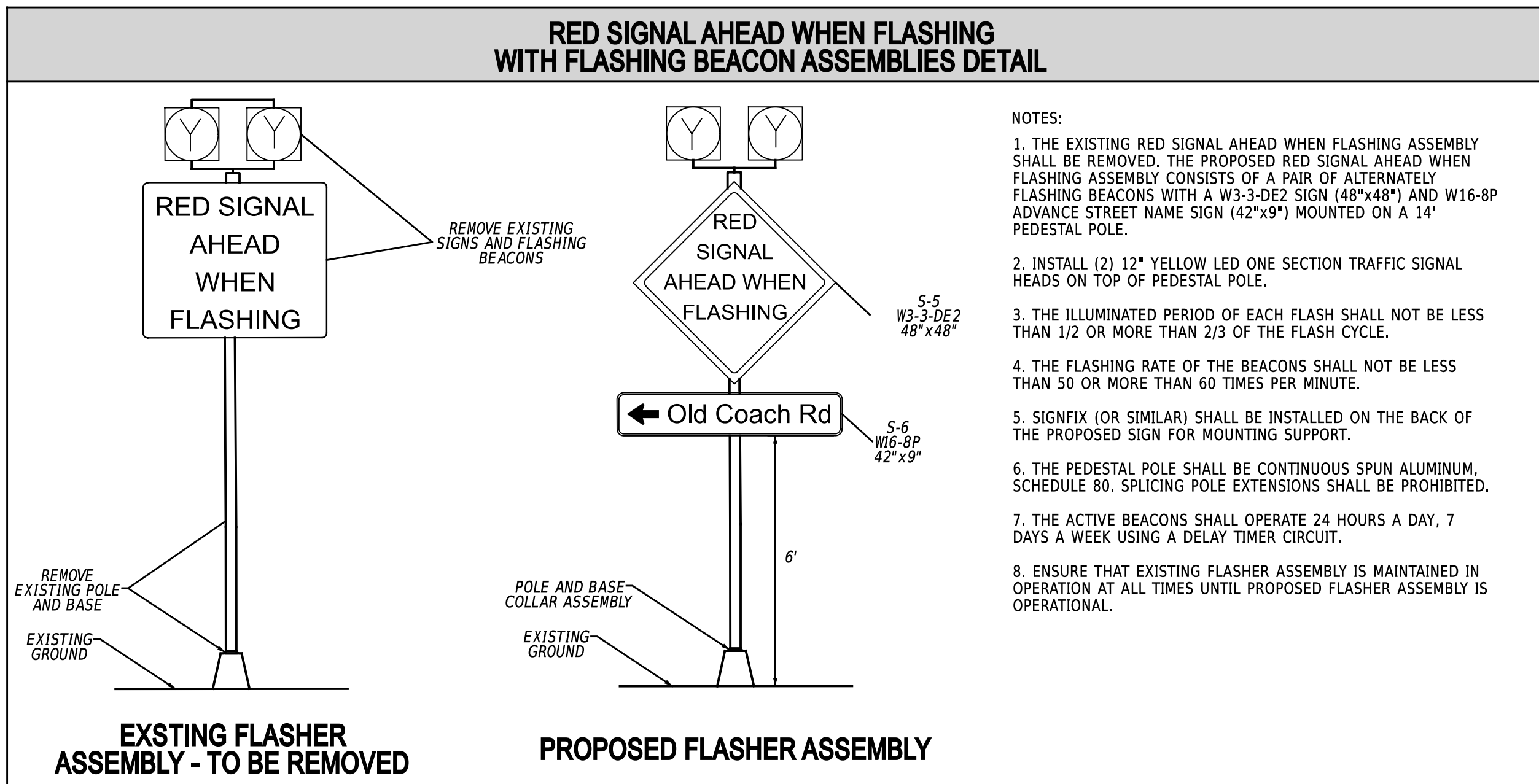
**CONCURRENCE FOR INSTALLATION**

CHIEF OF TRAFFIC ENGINEERING  
  
 DATE 7/16/2024

THIS SEAL APPLIES TO ONLY THIS SHEET

SEAL

LAST REVISED: 9/11/2018  
 7-AUG-2024  
 11:31  
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EXISTING SYMBOL	PROPOSED SYMBOL
(AB)	ABANDON
(CA)	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
(CA)	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
(CO)	EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
(CO)	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
(JW)	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
(JW)	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
(MA)	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
(MA)	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
(OH)	EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
(OH)	PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
(PB)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(PB)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(PL)	EXISTING POLE IDENTIFIER (# OF POLE)
(PL)	PROPOSED POLE IDENTIFIER (# OF POLE)
(RM)	REMOVE BY CONTRACTOR
(RM)	REMOVE BY OTHERS
(RM)	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1	□	□
LOOP DETECTOR, TYPE 2	□	□
LUMINAIRE	⬤	⬤
MAST ARM	⬤	⬤
MICROWAVE DETECTION	⬤	⬤
OPTICOM RECEIVER	⬤	⬤
OVERHEAD SIGNING	⬤	⬤
PEDESTRIAN POLE/BASE	⊙	⊙
PEDESTRIAN PUSHBUTTON	⬤	⬤
PEDESTRIAN SIGNAL HEAD	⬤	⬤
RIGHT-OF-WAY	---	R/W
SERVICE PEDESTAL	P	P
SIGNAL CABINET	□	□
SIGNAL HEAD	⬤	⬤
SIGNAL POLE/BASE	⊙	⊙
CCTV CAMERA	⬤	⬤
SPAN WIRE	XX	XX
UTILITY POLE	⊙	⊙
VIDEO DETECTION	⬤	⬤

### GENERAL SIGNAL NOTES

- ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.

**PREPARED BY**  
**JMT**

Mir A. Wahed  
7/16/24  
DATE

THIS SEAL APPLIES TO ONLY THIS SHEET

**CONCURRENCE FOR INSTALLATION**  
7/16/2024  
DATE

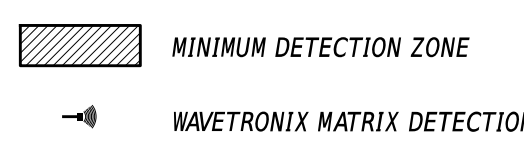
### TEMPORARY SIGNAL DETECTION NOTES

- INSTALL WAVETRONIX MATRIX DETECTORS PRIOR TO DISCONNECTING EXISTING TRAFFIC LOOPS. INSTALL AND MAINTAIN WAVETRONIX MATRIX DETECTORS THROUGHOUT CONSTRUCTION, UNTIL PROPOSED LOOP DETECTORS ARE OPERATIONAL, AND THE PROPOSED SIGNAL EQUIPMENT IS ACTIVATED.
- MOUNT THE WAVETRONIX MATRIX DETECTORS TO STRAIN POLES #2 & #3 AS SHOWN IN THE TEMPORARY DETECTION DETAIL. MOUNT THE DEVICES AT A MANUFACTURER RECOMMENDED HEIGHT OF 15-25 FEET ABOVE THE PAVEMENT GRADE.
- UTILIZE THE SUPPLIED WAVETRONIX MATRIX CABLES TO CONNECT THE DETECTORS TO THE CABINET, USING CONDUITS 16-17, AS WELL AS THE SPAN WIRE, AS SHOWN IN THE TEMPORARY DETECTION DETAIL.
- CLEAR VEGETATION IN THE VICINITY OF STRAIN POLE #3 AS NEEDED TO INSTALL AND PROPERLY OPERATE THE WAVETRONIX MATRIX DETECTORS.
- COORDINATE WITH TMC AT LEAST 10 DAYS PRIOR TO DISCONNECTING TRAFFIC LOOPS AS WELL AS PRIOR TO REACTIVATING THE TRAFFIC LOOPS.
- ONCE THE PROPOSED LOOP DETECTORS AND SIGNAL ARE OPERATIONAL, RELOCATE THE WAVETRONIX MATRIX DETECTORS TO THE MAST ARMS AS SHOWN ON THE ULTIMATE SIGNAL PLAN. ENSURE THAT THE DETECTORS OPERATE PROPERLY. ADJUST DETECTION ZONES TO MATCH THE PERMANENT STRIPING CONDITION AS NEEDED. DEACTIVATE THE WAVETRONIX SYSTEM IN THE CONTROLLER CABINET IN THE PERMANENT CONDITION. THE SYSTEM WILL REMAIN IN PLACE FOR FUTURE USE.
- FIELD SURVEY TO BE PERFORMED BY THE WAVETRONIX REP. CONTACT DON HENRY AT 302-390-1523 AT LEAST TWO WEEKS IN ADVANCE OF ANY WORK INVOLVING WAVETRONIX DEVICES.

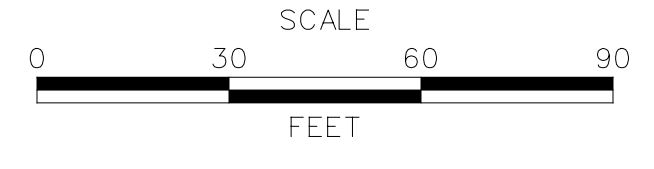
### CONDUIT RUN SCHEDULE

CO NO.	NO. OF CONDUITS	SIZE/TYPER	LENGTH	INSTALL METHOD	AMOUNT AND TYPE OF CABLE / WIRE
*16	2	EXISTING	15'	EXISTING	EXISTING [SIGNAL CABLES], INSTALL [(3) WAVETRONIX MATRIX CABLES]
*17	1	EXISTING	30'	EXISTING	EXISTING [SIGNAL CABLES], INSTALL [(3) WAVETRONIX MATRIX CABLES]

### ADDITIONAL LEGEND



ADDENDA / REVISIONS



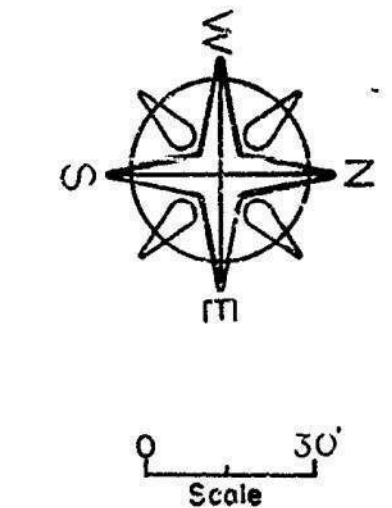
## PAVEMENT & REHABILITATION NORTH I, 2024 POLLY DRUMMOND HILL ROAD

CONTRACT	T202406103	PERMIT NO.	N258, NCAM277
COUNTY	NEW CASTLE	DESIGNED BY:	S. BUNITSKY/J. SMITH
		CHECKED BY:	M. WAHED

### SIGNAL PLAN POLLY DRUMMOND HILL ROAD @ OLD COACH ROAD

SECTION	JMT
SHEET NO.	92

LAST REVISED: 9/11/2018  
7-AUG-2024  
11:34  
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CONDUIT RUN SCHEDULE					
CO NO.	NO. OF CONDUITS	SIZE/TYPE	LENGTH	INSTALL METHOD	AMOUNT AND TYPE OF CABLE / WIRE
3	2	2.5"-EX.	10'	EXISTING	REMOVE[(2)16/#14], INSTALL[(2)16/#14, (2)1/#6 GRD], EXISTING[(6) 4/#19]
8	1	2.5"-EX.	100'	EXISTING	REMOVE[(2)16/#14], INSTALL[(2)16/#14, (1)1/#6 GRD], EXISTING[(3) 4/#19]
14	1	2.5"-EX.	35'	EXISTING	REMOVE[(2)16/#14], INSTALL[(2)16/#14, (1)1/#6 GRD]

TYPES: HDPE, PVC, RGS  
 INSTALL METHODS: B=BORE, IB=IN BARRIER, OC=OPEN CUT, OS=ON STRUCTURE, T=TRENCH  
 \*SEE CONDUIT IN BOTTOM LEFT CORNER OF SHEET FOR INFORMATION ON OTHER CONDUITS. CONDUIT 14 IS EXISTING PER SITE VISIT BUT NOT REPRESENTED ON AS-BUILT PLAN.

DELAWARE DIVISION OF HIGHWAYS  
 BUREAU OF TRAFFIC

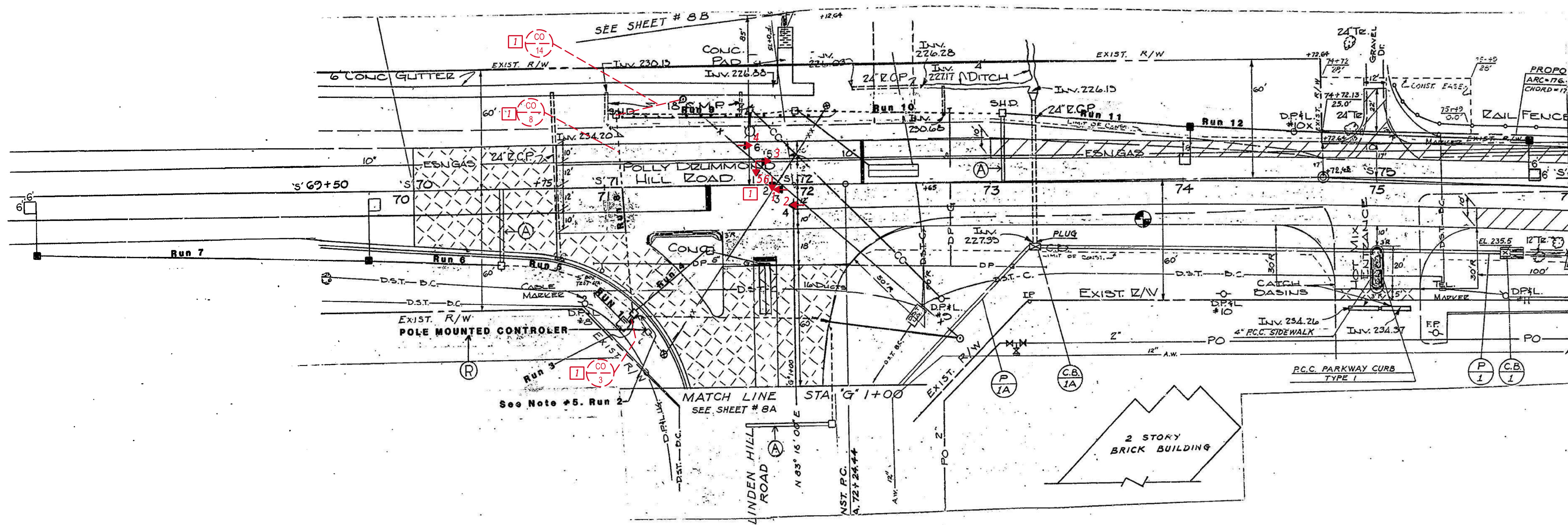
DOVER DELAWARE

PERMIT NO. N-250 CONTRACT NO. T202106001 FED. AID NO. SHEET NO. TOTAL

SIGNAL PLAN  
 POLLY DRUMMOND HILL RD. & LINDEN HILL RD.

PREL. TRACNG DATE 9-23-86 DESIGN DATE

REVISION  
 1 REPLACE SIGNAL HEADS AND SIGNAL HEAD CABLES - J. SMITH



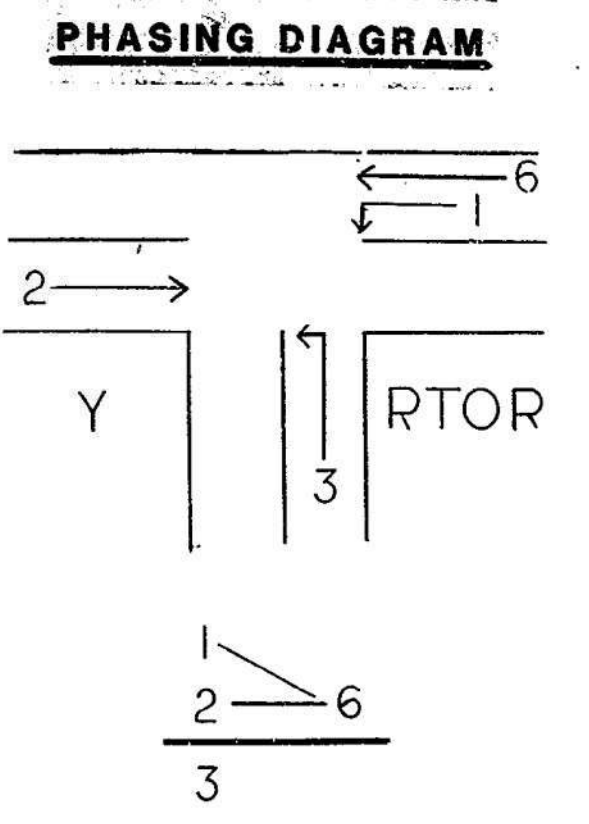
LEGEND

- POLE BASE TYPE (#1-6)
- ⊙ EXISTING STEEL POLE BASE
- ⊠ EXISTING ALUMINUM POLE BASE
- ⊞ PEDESTAL BASE
- ⊚ EXISTING PEDESTAL BASE
- WOOD POLE
- EXISTING WOOD POLES
- ⊙ EXISTING DP&L AND D.ST POLES
- ⊠ CABINET BASE
- ⊞ EXISTING CABINET BASE
- RIGHT-OF-WAY OR PROPERTY LINE
- GALVANIZED CONDUIT
- EXISTING GALV. CONDUIT
- NON-METALLIC CONDUIT
- EXISTING NON-METALLIC CONDUIT
- LP # LOOP DETECTOR TYPE (#1-7)
- EXISTING LOOP DETECTOR
- JUNCTION WELL TYPE (#1-4)
- EXISTING JUNCTION WELL
- SPAN WIRE
- EXISTING SPAN WIRE
- OVERHEAD CABLE
- EXISTING OVERHEAD CABLE
- SIGNAL HEAD
- EXISTING SIGNAL HEAD
- PEDESTRIAN SIGNAL HEAD
- EXISTING PED. SIGNAL HEAD
- MAST ARM
- REMOVE
- ABANDON
- REMOVE EXISTING CONCRETE BASE
- 6" BELOW GROUND LEVEL AND COVER.
- LUMINAIRE (WATTAGE)
- EXISTING LUMINAIRE (WATTAGE)
- A 1 1/2" GALVANIZED CONDUIT
- B 2" GALVANIZED CONDUIT
- C 2 1/2" GALVANIZED CONDUIT
- D 3" NON-METALLIC CONDUIT
- E 4" NON-METALLIC CONDUIT
- X EXISTING CONDUIT

CONDUIT RUNS

RUN 1 - A - 100' - (1) 2/#8 UF W/G
2 - C - 80' - (2) 16/#14
3 - (2)C - 10' - (6) 4/#19
4 - X - 50' - (1) 4/#19
5 - X - 75' - (2) 4/#19
6 - A - 70' - (2) 4/#19
7 - A - 175' - (1) 4/#19
8 - X - 100' - (3) 4/#19
9 - X - 95' - (3) 4/#19
10 - X - 110' - (2) 4/#19
11 - A - 87' - (2) 4/#19
12 - A - 175' - (1) 4/#19
13 - X - 160' - (0)
14
15

- NOTES
- Detection - 50 MPH - Dilemma Zone - 171' and 351' From Stop Bar.
  - All Loop Detectors Type #3, 6'x25', Except As Shown.
  - All Pole Bases Type #3.
  - All Junction Wells Type #1.
  - Sweep Existing Conduit into Control Cabinet.



ADDITIONAL NOTES:  
 1 REPLACE EXISTING SIGNAL HEADS AND SIGNAL HEAD CABLES AS SHOWN ON PLAN.

FUNDS DERIVED FROM SENATE BILL NO. 560, \$32,000.

PREPARED BY  
 JMT

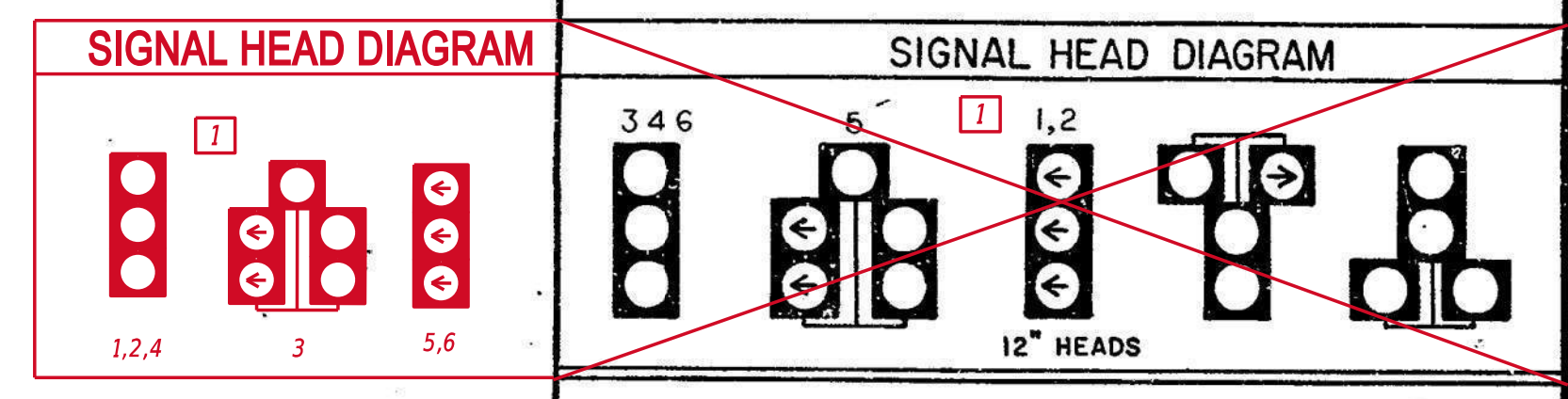
Mir A. Wahed  
 7/16/24  
 DATE

THIS SEAL APPLIES TO THIS SHEET CHANGED UNDER REVISION #1

CONCURRENCE FOR INSTALLATION

7/16/2024  
 DATE

CHIEF OF TRAFFIC ENGINEERING



RECOMMENDED	Sept 23, 1986	Daniel Dell
RECOMMENDED	Sept 24, 1986	J. R. Lerner
RECOMMENDED	19	

SECTION
JMT
SHEET NO.
93

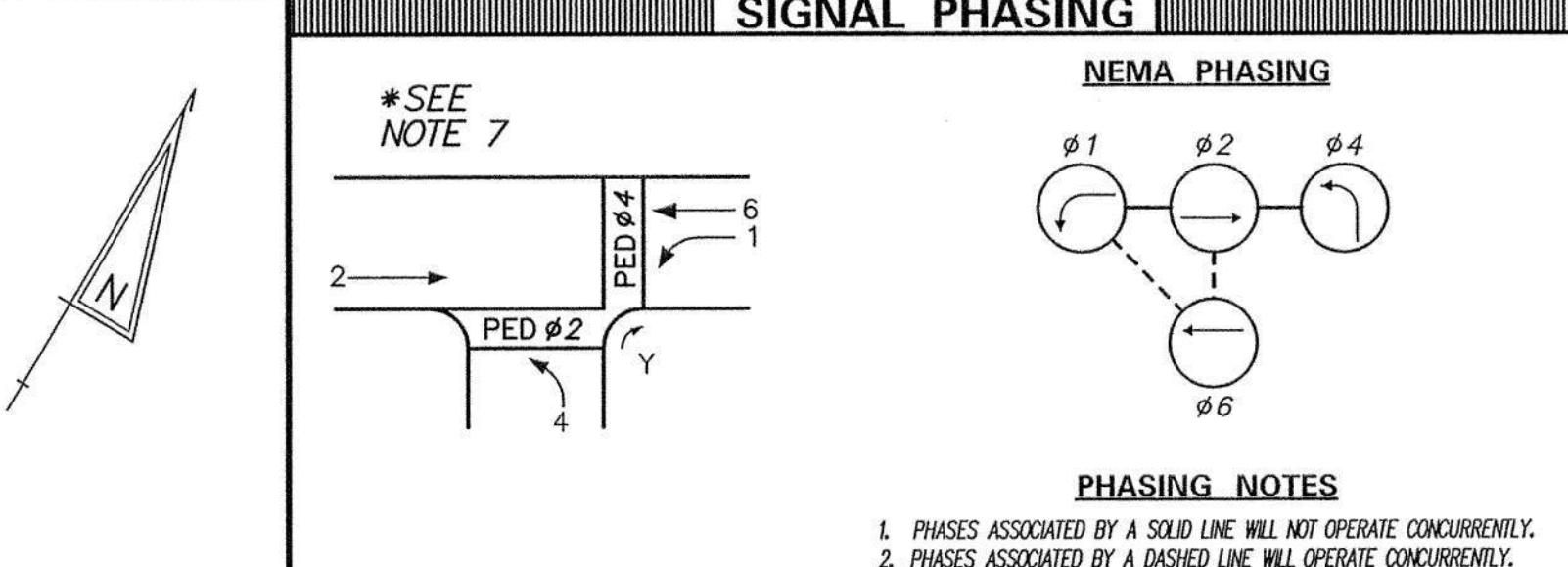
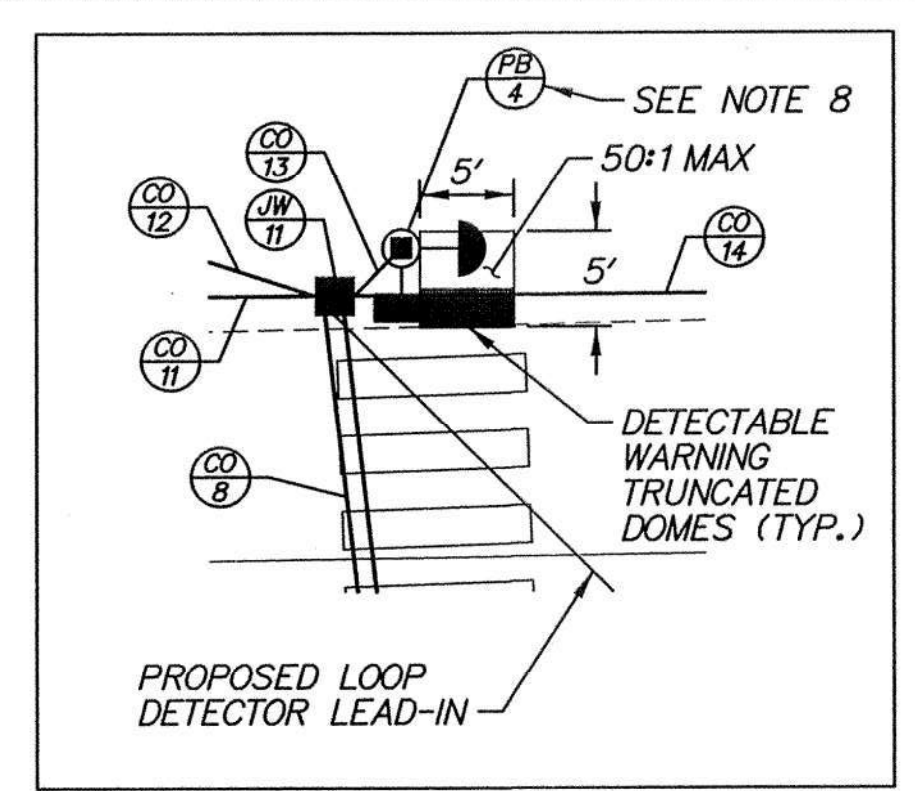
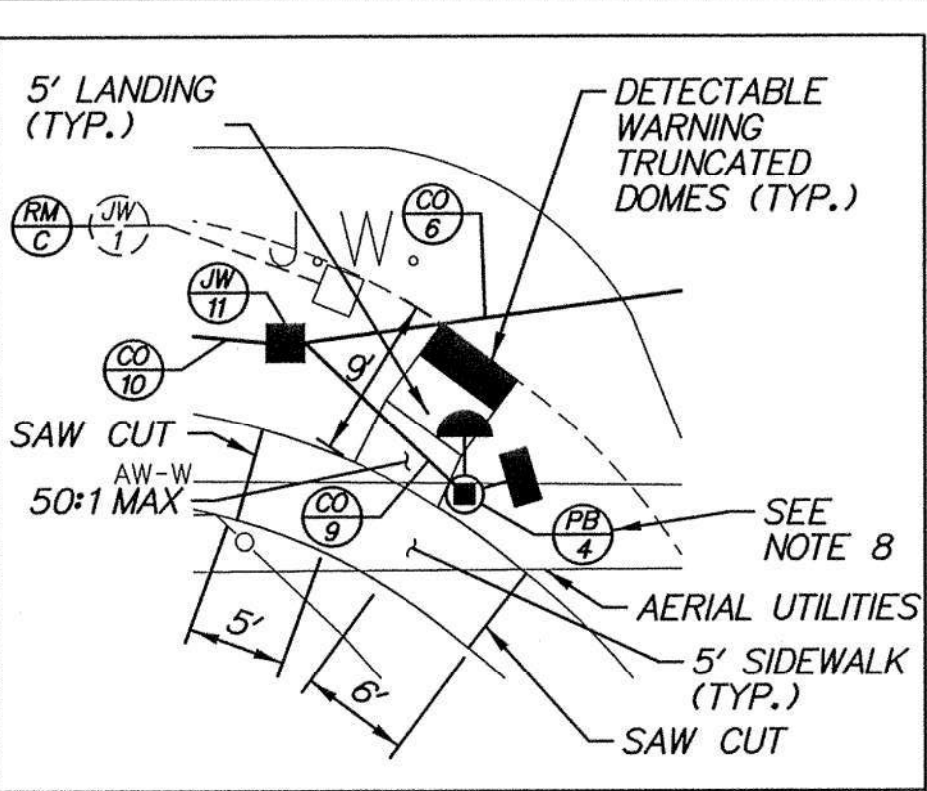
APPROVED F.H.W.A. DATE

APPROVED for INSTL. DATE  
 CHIEF TRAFFIC ENGINEER



CD#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
1	1	2.0 IN	5 FT	T	[NEW] (1) 2/*8 U.F. W/GROUND - LINE SIDE]
2	1	2.0 IN	80 FT	T	[NEW] (1) 2/*8 U.F. W/GROUND - LOAD SIDE]
3	1	2.0 IN	36 FT	T	[NEW] (1) 2/*8 U.F. W/GROUND - LOAD SIDE]
4	1	3.0 IN	25 FT	T	[NEW] (1) 9/*14, (1) 4/*18, (1) #6 GRD.]
5	2	4.0 IN	37 FT	B/T	[NEW] (5) 9/*14, (2) 4/*18, (5) 2/*14, (2) #6 GRD.]
6	1	4.0 IN	72 FT	B/T	[NEW] (1) 9/*14, (1) 2/*14, (1) #6 GRD.]
7	1	2.5 IN	5 FT	T	[NEW] (1) 9/*14, (1) #6 GRD.]
8	2	4.0 IN	63 FT	B/T	[NEW] (3) 9/*14, (2) 4/*18, (4) 2/*14, (2) #6 GRD.]
9	1	2.5 IN	12 FT	T	[NEW] (1) 9/*14, (1) #6 GRD.]
10	1	4.0 IN	107 FT	T	[NEW] (1) 2/*14, (1) #6 GRD.]
11	1	4.0 IN	111 FT	T	[NEW] (1) 2/*14, (1) #6 GRD.]
12	1	3.0 IN	41 FT	T	[NEW] (2) 9/*14, (2) 4/*18, (1) #6 GRD.]
13	1	2.5 IN	4 FT	T	[NEW] (1) 9/*14, (1) #6 GRD.]
14	1	4.0 IN	238 FT	T	[NEW] (2) 2/*14, (1) #6 GRD.]
15	3	4.0 IN	24 FT	T	[NEW] (5) 9/*14, (2) 4/*18, (6) 2/*14, (3) #6 GRD.]

MA#	HEIGHT OF POLE	LENGTH OF ARM	# OF HEADS	# OPTICOM RECEIVERS	SF OF SIGNING	ARM MOUNT HEIGHT
1	21'-6"	45 FT	2	1	-	20'-0"
2	21'-6"	35 FT	2	1	20.0 SF	20'-0"
3	21'-6"	40 FT	2	1	15.0 SF	18'-0"



\*ALL EXISTING CONDUIT TO BE ABANDONED IN PLACE B = BORE, T = TRENCH, O = OPEN CUT

**TEMPORARY FOR USE ONLY DURING CONSTRUCTION**

**ADDITIONAL LEGEND**

- Minimum Detection Zone
- XP 21 WAVETRONIX DETECTION

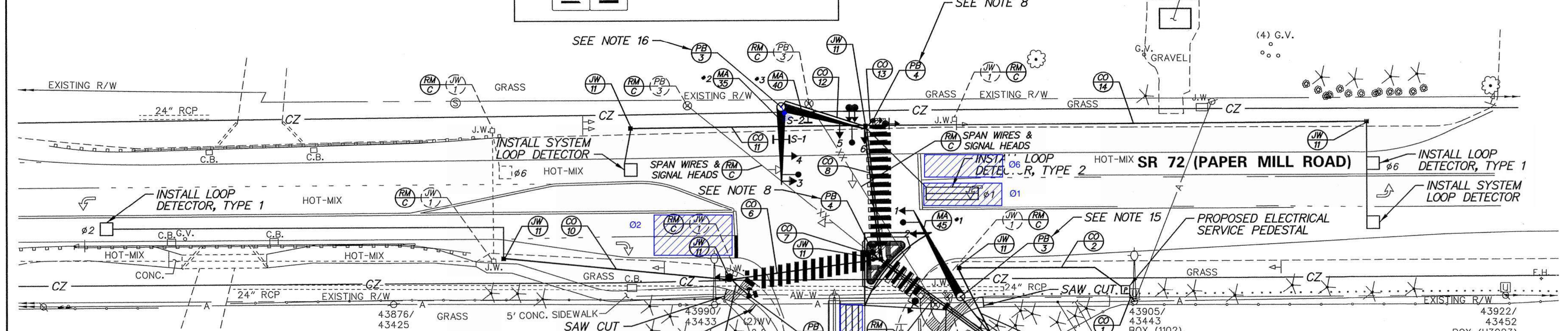
**PROPOSED OVERHEAD SIGNING**

S-1 (20" x 24")  
BACK-TO-BACK 12" B-SERIES

S-2 (90" x 24")  
12" & 9" C-SERIES

**Paper Mill Rd**

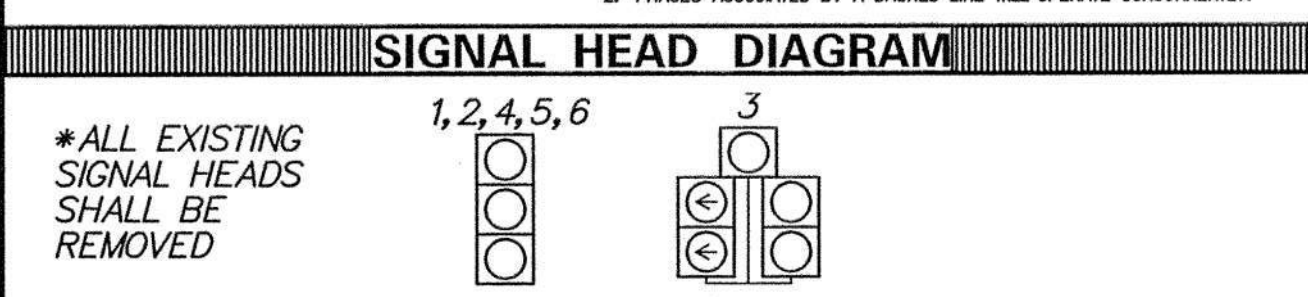
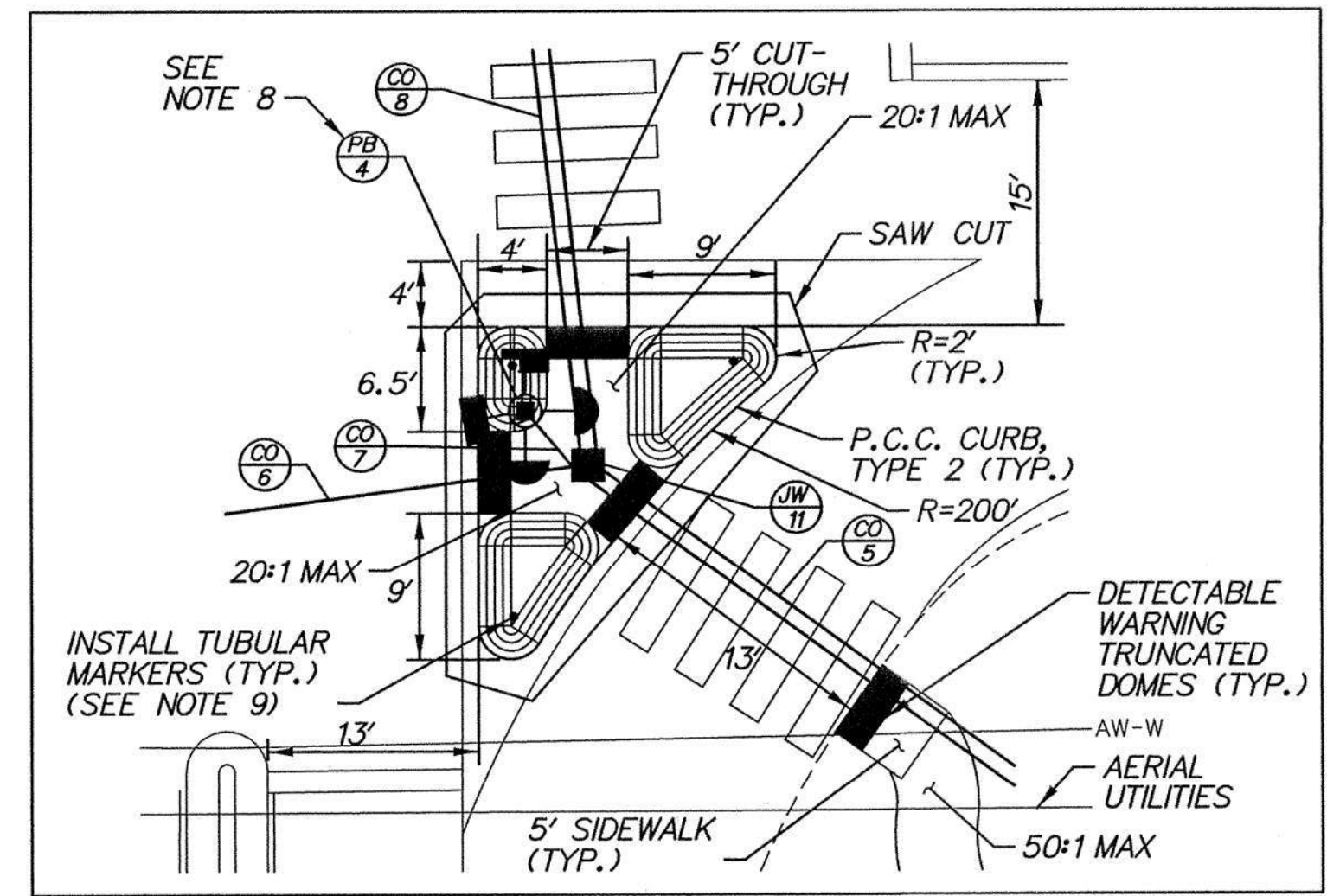
\*FREE-SWINGING MOUNTS



- INSTALL WAVETRONIX XP21 DETECTOR PRIOR TO DISCONNECTING EXISTING TRAFFIC LOOPS. INSTALL AND MAINTAIN WAVETRONIX XP21 DETECTOR THROUGHOUT CONSTRUCTION, UNTIL PROPOSED LOOPS ARE OPERATIONAL.
- MOUNT THE WAVETRONIX XP21 DETECTOR TO MAST ARM POLE #3 AS SHOWN IN THE TEMPORARY DETECTION PLAN.
- UTILIZE THE SUPPLIED WAVETRONIX XP21 CABLE TO CONNECT THE DETECTOR TO THE CABINET, USING CONDUITS 5, 8, 12 AND 15 AS SHOWN ON THE TEMPORARY DETECTION PLAN.
- COORDINATE WITH THE TMC AT LEAST 10 DAYS PRIOR TO DISCONNECTING TRAFFIC LOOPS AS WELL AS PRIOR TO REACTIVATING THE TRAFFIC LOOPS.
- ONCE THE PROPOSED LOOP DETECTORS ARE OPERATIONAL, ADJUST WAVETRONIX XP21 DETECTION ZONES TO MATCH THE PERMANENT STRIPING CONDITION AS NEEDED AND ENSURE THAT THE DETECTOR OPERATES PROPERLY. DEACTIVATE THE WAVETRONIX SYSTEM IN THE CONTROLLER CABINET IN THE PERMANENT CONDITION. THE SYSTEM WILL REMAIN IN PLACE FOR FUTURE USE.
- FIELD SURVEY TO BE PERFORMED BY WAVETRONIX REP. CONTACT DON HENRY AT 302-390-1523 AT LEAST 2 WEEKS IN ADVANCE OF ANY WORK INVOLVING WAVETRONIX DEVICES.

- NOTES:**
- DELDOT TRAFFIC/TMC SHALL MODIFY THE SIGNAL PHASING, AS SHOWN, WITH FULL-TIME STOP-AND-GO OPERATION.
  - PROPOSED POLE BASES SUPPORTING POLES WITH PEDESTRIAN PUSHBUTTONS SHALL BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE FLAT (50:1 FLATTER) LANDING AREA OF THE CURB RAMP OR SIDEWALK IN ACCORDANCE WITH CURRENT ADA BEST PRACTICES. THESE POLE BASES SHALL BE FLUSH WITH THE ADJOINING LANDING AREA. THE PEDESTRIAN PUSHBUTTON SHOULD BE INSTALLED AT A HEIGHT OF 42 TO 48 INCHES ABOVE THE LANDING AREA/SIDEWALK, AND SHALL BE LOCATED SUCH THAT THE MAXIMUM REACH DISTANCE IS 10 INCHES FROM THE LANDING AREA TO THE FACE OF THE PUSHBUTTON. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE SIDEWALK LEVEL.
  - DELDOT TRAFFIC SHALL INSTALL A TUBULAR MARKER (FLEXI-POST) ON ALL THREE (3) CORNERS OF THE CHANNELIZED ISLAND, AS SHOWN. EACH MARKER SHALL BE RETROREFLECTORIZED IN ACCORDANCE WITH SECTIONS 31.05 AND 6F.60 OF THE 2011 DE MUTCD.
  - ALL PEDESTRIAN SIGNALS SHALL CONTAIN PEDESTRIAN COUNTDOWN DISPLAYS.
  - THE CONTRACTOR SHALL REMOVE THE EXISTING SIGNAL HEADS, HEAD CABLES, AND SPAN WIRES AND INSTALL THE PROPOSED MAST ARMS, SIGNAL HEADS, OPTICOMS, AND OVERHEAD SIGNS, AS SHOWN.
  - DELDOT TRAFFIC SHALL INSTALL A NEMA CABINET EXTENSION FOR THE PROPOSED SIGNAL CABINET.
  - DELDOT TRAFFIC SHALL COORDINATE THE CDMA INSTALLATION IN THE PROPOSED SIGNAL CABINET.
  - ALL WORK OUTSIDE DELDOT'S RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE TRAFFIC SIGNAL INSTALLATION AND MAINTENANCE AGREEMENT FOR TAX PARCEL NO. 08-030.00-060.
  - THE CONTRACTOR SHALL INSTALL SHEETING AND/OR A POLE BASE EXTENSION FOR THE PROPOSED POLE BASE, TYPE 3, AS DIRECTED BY DELDOT TRAFFIC.

- NOTES:**
- THE CONTRACTOR SHALL INSTALL A 3' POLE BASE EXTENSION TO AVOID CONFLICTS WITH THE EXISTING SPAN WIRES.
  - THE CONTRACTOR SHALL CLEAR AND GRUBB IN ACCORDANCE WITH ITEM 201000.



**LEGEND**

Proposed Signal Cabinet	Remove by Contractor
Existing Signal Cabinet	Remove by Others
Proposed Signal Pole Base	Abandon
Existing Signal Pole Base	Proposed Pole Base Identifier
Proposed Pedestrian Pole Base	Existing Pole Base Identifier
Existing Pedestrian Pole Base	Proposed Junction Well Identifier
Proposed Wood Pole	Existing Junction Well Identifier
Existing Utility Pole	Proposed Conduit Run Identifier
Proposed Junction Well	Existing Conduit Run Identifier
Existing Junction Well	Proposed Overhead Run Identifier
Proposed Signal Head	Existing Overhead Run Identifier
Existing Signal Head	Proposed Mast Arm Identifier
Proposed Pedestrian Signal Head	Existing Mast Arm Identifier
Existing Pedestrian Signal Head	Proposed Cabinet Identifier
Proposed Pedestrian Pushbutton	Existing Cabinet Identifier
Existing Pedestrian Pushbutton	Proposed Span Wire
Proposed Video Detection	Existing Span Wire
Existing Video Detection	Right-of-Way or Property Line
Proposed Microwave Detection	Proposed Mast Arm
Existing Microwave Detection	Existing Mast Arm
Overhead Signage	Proposed Luminaire
Proposed Opticom Receiver	Existing Luminaire
Existing Opticom Receiver	Proposed Loop Detector
Proposed Mast Arm	Existing Loop Detector
Existing Mast Arm	Proposed Span Insulator
Proposed Luminaire	Existing Span Insulator
Existing Luminaire	Service Pedestal

**GENERAL SIGNAL NOTES**

- PROPOSED LOOP DETECTORS: TYPE #1 - 6' x 6' - TO BE INSTALLED ON SR 72 THROUGH MOVEMENTS. TYPE #2 - 6' x 25' - TO BE INSTALLED ON SB SR 72 LEFT-TURN MOVEMENT. TYPE #3 - 6' x 25' - TO BE INSTALLED ON THE INDEPENDENCE SCHOOL DRIVEWAY EXIT LEFT-TURN MOVEMENT. SYSTEM - 6' x 6' - TO BE INSTALLED IN SR 72 RECEIVING LANES, AS SHOWN.

PREPARED BY JMT

Mir Ake Waked

7/16/24

DATE

SEAL

CONCURRENCE FOR INSTALLATION

CHIEF OF TRAFFIC ENGINEERING

7/16/2024

DATE

CONCUR AS TO FORM THE INDEPENDENCE SCHOOL INC. (SEE SIGNED SIGNAL AGREEMENT) DATE: 5/1/13 RECOMMENDED DATE: 5/1/13 APPROVED TRAFFIC ENGINEER DATE: 5/1/13 APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER DATE: 5/10/13

DELAWARE DEPARTMENT OF TRANSPORTATION

CONTRACT T201404001 PERMIT NO. N004P

DESIGNED BY: D.C.G. (WR&A) CHECKED BY: M.J.B. (WR&A)

SIGNAL PLAN SR 72 (PAPER MILL ROAD) @ THE INDEPENDENCE SCHOOL

SHEET NO. 2 TOTAL SHTS. 3

PREPARED BY  
JMT

*Mir Ak Waked*

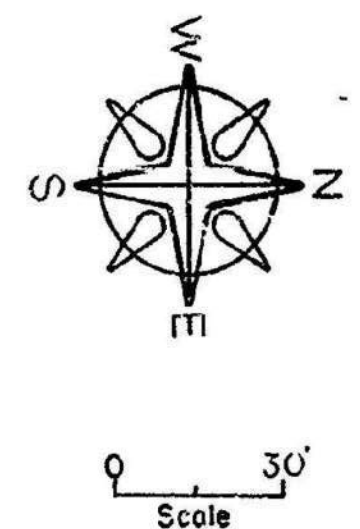
7/16/24  
DATE

CONCURRENCE FOR INSTALLATION

CHIEF OF TRAFFIC ENGINEERING

7/16/2024  
DATE

MR. A. WAKED  
LICENSE  
No. 14810  
DELAWARE  
PROFESSIONAL ENGINEER

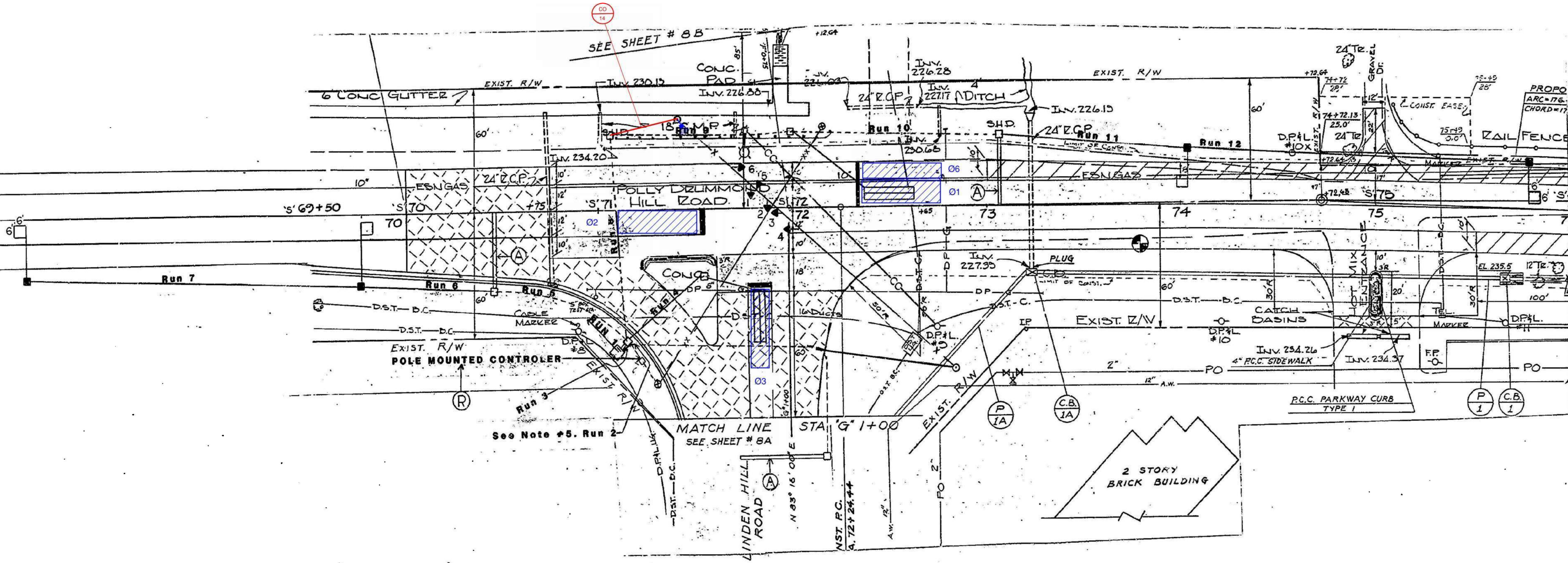


TEMPORARY FOR USE  
ONLY DURING  
CONSTRUCTION

ADDITIONAL LEGEND

MINIMUM DETECTION ZONE

XP21 WAVETRONIX DETECTION



DELAWARE DIVISION OF HIGHWAYS  
BUREAU OF TRAFFIC

DOVER DELAWARE

PERMIT NO. N-258 CONTRACT NO. FED. AID NO. SHEET NO. TOTAL

SIGNAL PLAN  
POLLY DRUMMOND HILL RD. &  
LINDEN HILL RD.

PREL. TRACNG DATE DESIGN DATE  
D.J.D. 9-23-86

REVISION

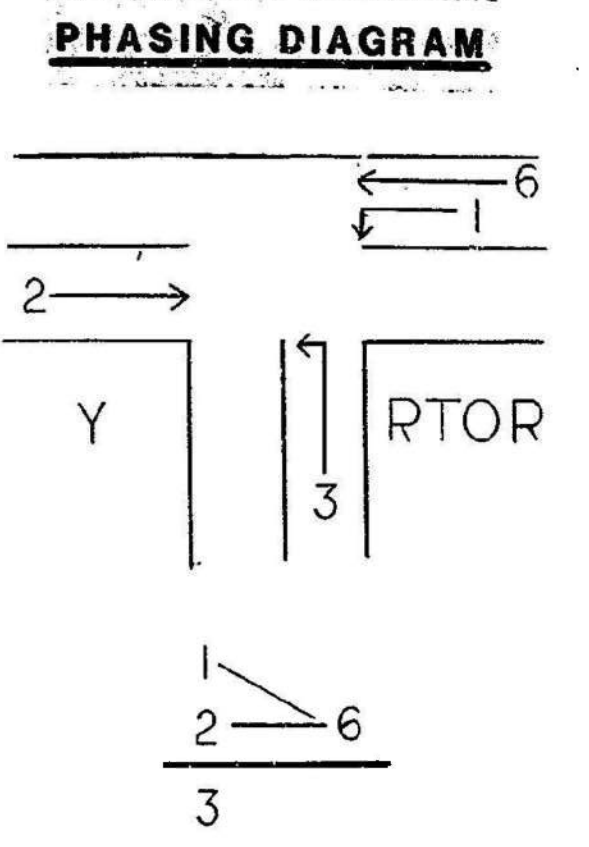
LEGEND

○	POLE BASE TYPE (#1-6)
⊙	EXISTING STEEL POLE BASE
⊠	EXISTING ALUMINUM POLE BASE
⊚	PEDESTAL BASE
⊛	EXISTING PEDESTAL BASE
●	WOOD POLE
○	EXISTING WOOD POLES
⊙	EXISTING DR&L AND D.ST POLES
⊠	CABINET BASE
⊚	EXISTING CABINET BASE
---	RIGHT-OF-WAY OR PROPERTY LINE
---	GALVANIZED CONDUIT
---	EXISTING GALV. CONDUIT
---	NON-METALLIC CONDUIT
---	EXISTING NON-METALLIC CONDUIT
LP #	LOOP DETECTOR TYPE (#1-7)
---	EXISTING LOOP DETECTOR
■	JUNCTION WELL TYPE (#1-4)
□	EXISTING JUNCTION WELL
-x-	SPAN WIRE
-xx-	EXISTING SPAN WIRE
-c-	OVERHEAD CABLE
-cc-	EXISTING OVERHEAD CABLE
→	SIGNAL HEAD
↖	EXISTING SIGNAL HEAD
↗	PEDESTRIAN SIGNAL HEAD
↘	EXISTING PED. SIGNAL HEAD
⊖	MAST ARM
⊕	REMOVE
⊖	ABANDON
⊖	REMOVE EXISTING CONCRETE BASE
⊖	6" BELOW GROUND LEVEL AND COVER.
⊖	LUMINAIRE (WATTAGE)
⊖	EXISTING LUMINAIRE (WATTAGE)
A	1 1/2" GALVANIZED CONDUIT
B	2" GALVANIZED CONDUIT
C	2 1/2" GALVANIZED CONDUIT
D	3" NON-METALLIC CONDUIT
E	4" NON-METALLIC CONDUIT
X	EXISTING CONDUIT

CONDUIT RUNS

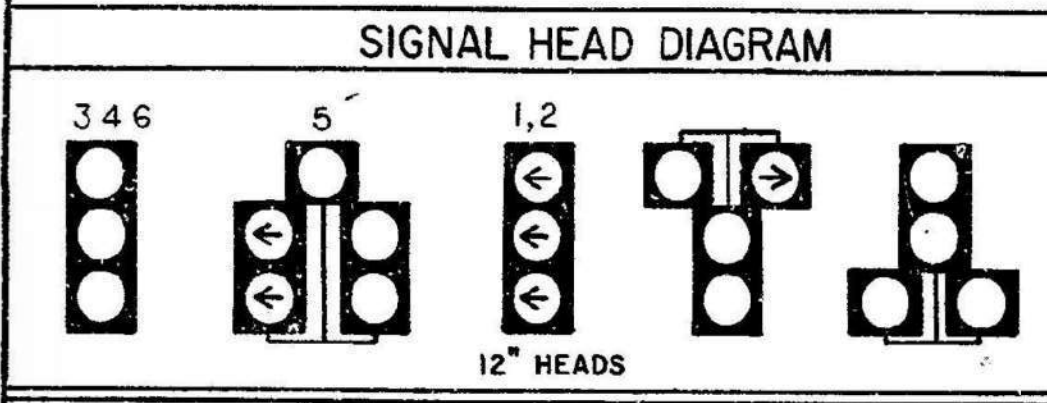
Run 1	- A - 100' - (1) 2/#8 UF W/G
2	- C - 80' - (2) 16/#14
3	- (2)C - 10' - (6) 4/#19 WAVETRONIX XP21 CABLE
4	- X - 50' - (1) 4/#19
5	- X - 75' - (2) 4/#19
6	- A - 70' - (2) 4/#19
7	- A - 175' - (1) 4/#19
8	- X - 100' - (3) 4/#19 WAVETRONIX XP21 CABLE
9	- X - 95' - (3) 4/#19
10	- X - 110' - (2) 4/#19
11	- A - 97' - (2) 4/#19
12	- A - 175' - (1) 4/#19
13	- X - 160' - (0)
14	- X-35'-(2) 16/14" WAVETRONIX XP21 CABLE
15	

- NOTES
- Detection - 50 MPH - Dilemma Zone - 171' and 351' From Stop Bar.
  - All Loop Detectors Type #3, 6"x25", Except As Shown.
  - All Pole Bases Type #3.
  - All Junction Wells Type #1.
  - Sweep Existing Conduit Into Control Cabinet.



- ADDITIONAL NOTES
- INSTALL WAVETRONIX XP21 DETECTOR PRIOR TO DISCONNECTING EXISTING TRAFFIC LOOPS. INSTALL AND MAINTAIN WAVETRONIX XP21 DETECTOR THROUGHOUT CONSTRUCTION, UNTIL PROPOSED LOOPS ARE OPERATIONAL.
  - MOUNT THE WAVETRONIX XP21 DETECTOR TO STRAIN POLE 1 AS SHOWN ON THE TEMPORARY DETECTION PLAN. MOUNT THE DEVICE AT A MANUFACTURER RECOMMENDED HEIGHT OF 15-25 FEET ABOVE THE PAVEMENT GRADE. TRIM VEGETATION AS NECESSARY AROUND POLE FOR SENSOR PLACEMENT.
  - UTILIZE THE SUPPLIED WAVETRONIX XP21 CABLES TO CONNECT THE DETECTOR TO THE CABINET, USING CONDUIT #3, #8 & #14, AS SHOWN ON THE TEMPORARY DETECTION PLAN.
  - COORDINATE WITH TMC 10 DAYS PRIOR TO DISCONNECTING TRAFFIC LOOPS AS WELL AS PRIOR TO REACTIVATING TRAFFIC LOOPS.
  - ONCE THE PROPOSED LOOP DETECTORS ARE OPERATIONAL, ADJUST WAVETRONIX XP21 DETECTION ZONES TO MATCH THE PERMANENT STRIPING CONDITION AS NEEDED, AND ENSURE THAT THE DETECTOR OPERATES PROPERLY. DEACTIVATE THE WAVETRONIX SYSTEM IN THE CONTROLLER CABINET IN THE PERMANENT CONDITION. THE SYSTEM WILL REMAIN IN PLACE FOR FUTURE USE.
  - FIELD SURVEY TO BE PERFORMED BY THE WAVETRONIX REP. CONTACT DON HENRY AT 302-390-1523 AT LEAST TWO WEEKS IN ADVANCE OF ANY WORK INVOLVING WAVETRONIX DEVICE.
  - CLEAR VEGETATION IN THE VICINITY OF STRAIN POLE #1 AS NEEDED TO INSTALL AND PROPERLY OPERATE THE WAVETRONIX XP21 DETECTOR.

FUNDS DERIVED FROM SENATE BILL NO. 550, \$32,000.



RECOMMENDED	Sept 23, 1986	<i>Daniel Dell</i>
RECOMMENDED	Sept 24, 1986	<i>J. R. Linn</i>
RECOMMENDED	19	

APPROVED F.H.W.A. DATE

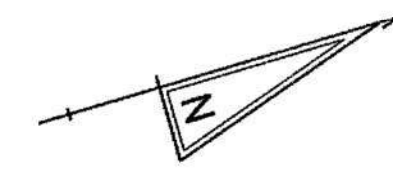
APPROVED for INSTL. DATE  
CHIEF TRAFFIC ENGINEER

CR#	# OF CONDUITS	SIZE	LENGTH	AMOUNT AND TYPE OF CABLE/WIRE
*1	1	2.0"	23'	(1)2/#8 U.F.W/ GROUND
*2	2	2.5"	11'	(2)16/#14, (4)9#14, (12)4/#18, (NEW) (4)9#14, (NEW) (2)4/#18 WAVETRONIX MATRIX CABLES
*3	1	2.5"	16'	(2)16/#14, (4)4/#18 WAVETRONIX MATRIX CABLES
*4	1	2.5"	43'	(4)9#14, (7)4/#18, (NEW) (4)9#14, (NEW) (2)4/#18
*5	1	1.5"	43'	(1)4/#18
*6	1	1.5"	180'	(1)4/#18
*7	1	2.5"	98'	EMPTY, (NEW) (1)4/#18
*8	1	2.5"	10'	EMPTY
*9	1	2.5"	111'	(2)9#14, (4)4/#18, (NEW) (2)9#14, (NEW) (1)4/#18
*10	1	2.5"	86'	(1)9#14, (2)4/#18, (NEW) (1)9#14
*11	1	2.5"	345'	(1)4/#18
*12	1	4.0"	41'	(1)9#14, (2)4/#18, (NEW) (1)9#14
*13	1	2.5"	9'	(2)9#14
*14	1	4.0"	62'	(1)9#14, (2)4/#18, (NEW) (1)9#14
*15	1	2.5"	10'	(2)9#14
*16	1	2.5"	9'	(2)9#14
*17	1	2.5"	20'	(2)9#14
*18	1	1.5"	13'	(1)4/#18
*19	1	1.5"	27'	(1)4/#18
*20	1	1.5"	9'	(1)4/#18
*21	1	2.5"	40'	(1)4/#18
*22	1	1.5"	6'	(1)4/#18
*23	1	2.5"	50'	(1)4/#18

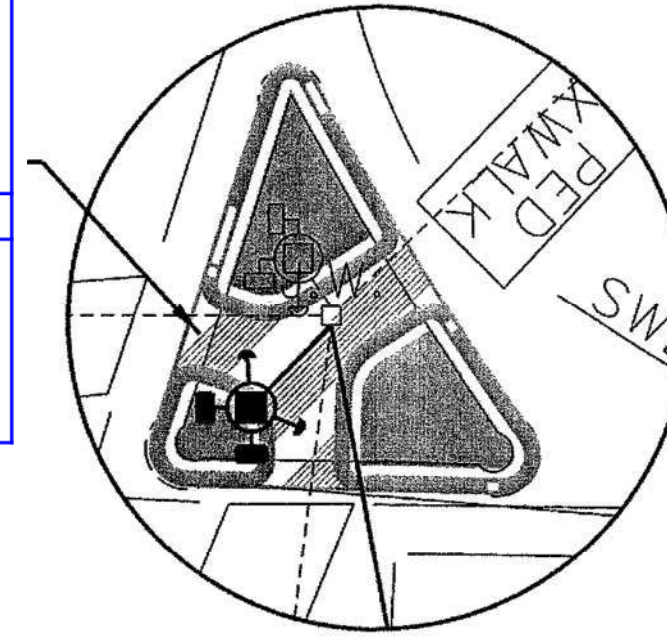
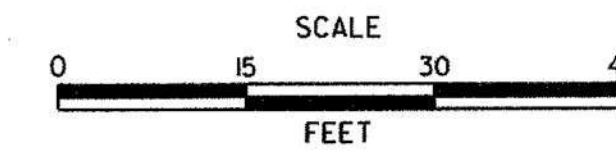
\* EXISTING CONDUIT

**ADDITIONAL SIGNAL NOTES**

- DELOTT TRAFFIC SHALL REMOVE ALL THE EXISTING PEDESTRIAN SIGNAL HEADS AND PUSHBUTTONS. DELOTT TRAFFIC SHALL INSTALL NEW COUNTDOWN PEDESTRIAN SIGNAL HEADS AND PUSHBUTTONS AS SHOWN ON THE PLAN. ALL REMOVED EXISTING SIGNAL HEADS AND PUSHBUTTONS SHALL BE RETURNED TO DELOTT TRAFFIC - DOVER, DELAWARE.
- PROPOSED POLE BASES SUPPORTING POLES WITH PEDESTRIAN PUSHBUTTONS SHALL BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE FLAT (SLOPE FLATTER) LANDING AREA OF THE CURB RAMP OR SIDEWALK IN ACCORDANCE WITH CURRENT ADA BEST PRACTICES. THESE POLE BASES SHALL BE FLUSH WITH THE ADJACENT LANDING AREA. THE PEDESTRIAN PUSHBUTTON SHOULD BE INSTALLED AT A HEIGHT OF 42 TO 48 INCHES ABOVE THE LANDING AREA/SIDEWALK, AND SHALL BE LOCATED SUCH THAT THE MAXIMUM REACH DISTANCE IS 10 INCHES FROM THE LANDING AREA TO THE FACE OF THE PUSH BUTTON. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE SIDEWALK LEVEL.
- CONTRACTOR SHALL INSTALL COUNTDOWN PEDESTRIAN SIGNALS AT ALL PEDESTRIAN SIGNAL LOCATIONS.
- COUNT-DOWN PEDESTRIAN PLAQUE (RD-36) SHALL BE INSTALLED AT EACH OF THE PEDESTRIAN PUSHBUTTONS.
- THE PEDESTRIAN PUSHBUTTON SHALL BE INSTALLED PERPENDICULAR TO CROSSWALK PATH.
- THE CONTRACTOR SHALL INSTALL CDMA TO ESTABLISH COMMUNICATION BETWEEN THE SIGNAL AND THE TMC.



**CURB RAMP DETAILS**  
FIELD ADJUSTMENTS AS REQUIRED



PREPARED BY  
JMT

7/16/24  
DATE

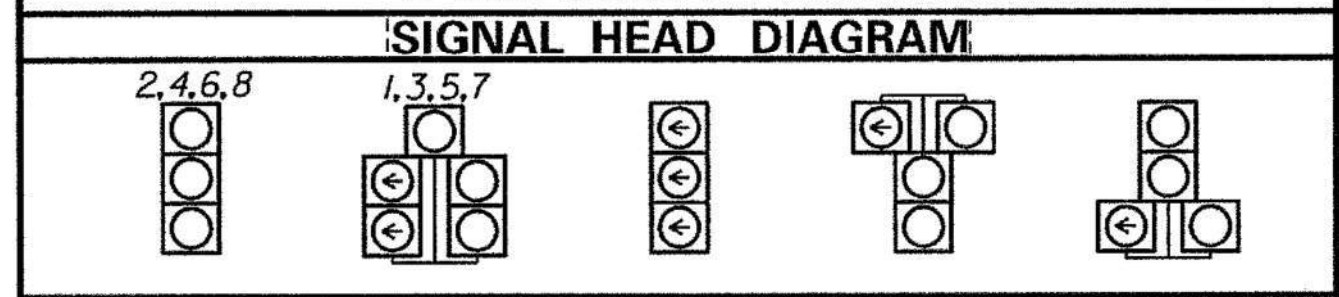
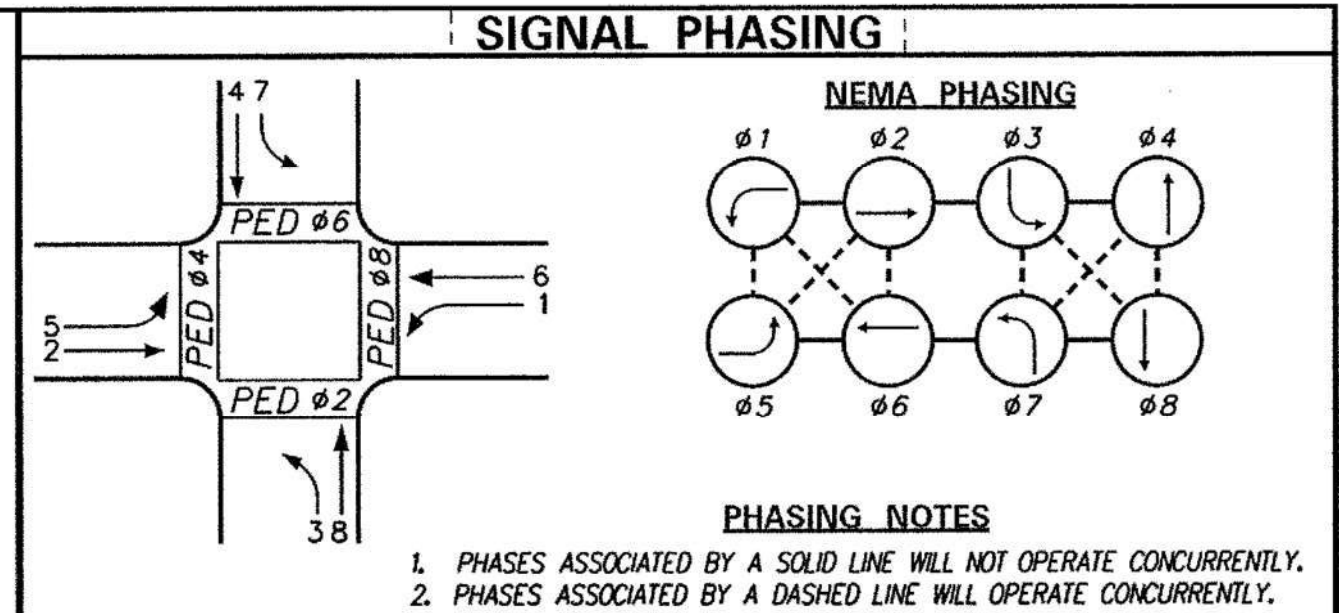
7/16/2024  
DATE

CONCURRENCE FOR INSTALLATION

CHIEF OF TRAFFIC ENGINEERING

MA. WAHED  
LICENSE  
No. 14810  
DELAWARE  
PROFESSIONAL ENGINEER

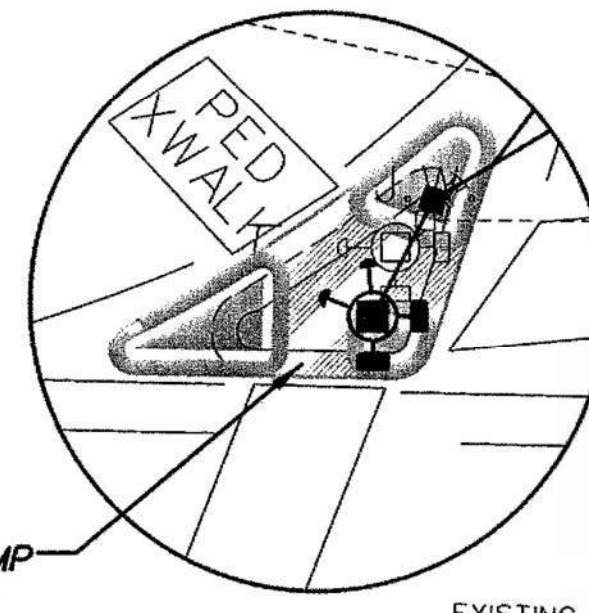
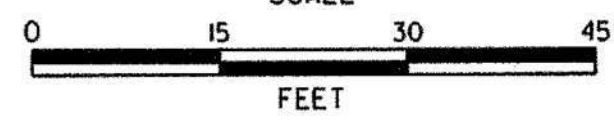
THIS SEAL APPLIES TO THE BLUE TEMPORARY DETECTION REVISIONS ON THIS SHEET ONLY.



**LEGEND**

■ PROPOSED SIGNAL CABINET	○ (RM) REMOVE BY CONTRACTOR
□ EXISTING SIGNAL CABINET	○ (TC) REMOVE BY TRAFFIC CONTRACTOR
○ PROPOSED SIGNAL POLE BASE	○ (D) REMOVE BY OTHERS
○ EXISTING SIGNAL POLE BASE	○ (AB) ABANDON
○ PROPOSED PEDESTRIAN POLE BASE	○ (PB) PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
○ EXISTING PEDESTRIAN POLE BASE	○ (PL) EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
○ PROPOSED WOOD POLE	○ (JW) PROPOSED POLE IDENTIFIER (# OF POLE)
○ EXISTING UTILITY POLE	○ (JW) EXISTING POLE IDENTIFIER (# OF POLE)
■ PROPOSED JUNCTION WELL	○ (JW) PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
J.W. EXISTING JUNCTION WELL	○ (JW) EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
→ PROPOSED SIGNAL HEAD	○ (CO) PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
→ EXISTING SIGNAL HEAD	○ (CO) EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
→ PROPOSED PEDESTRIAN SIGNAL HEAD	○ (OH) PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
→ EXISTING PEDESTRIAN SIGNAL HEAD	○ (OH) EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
→ PROPOSED PEDESTRIAN PUSHBUTTON	○ (MA) PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
→ EXISTING PEDESTRIAN PUSHBUTTON	○ (MA) EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
→ PROPOSED VIDEO DETECTION	○ (CA) PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
→ EXISTING VIDEO DETECTION	○ (CA) EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
→ PROPOSED MICROWAVE DETECTION	— PROPOSED SPAN WIRE
→ EXISTING MICROWAVE DETECTION	— XX — EXISTING SPAN WIRE
→ OVERHEAD SIGNING	— — RIGHT-OF-WAY OR PROPERTY LINE
→ PROPOSED OPTICOM RECEIVER	◆ PROPOSED SPAN INSULATOR
→ EXISTING OPTICOM RECEIVER	◇ EXISTING SPAN INSULATOR
→ PROPOSED MAST ARM	□ SERVICE PEDESTAL
→ EXISTING MAST ARM	
→ PROPOSED LUMINAIRE	
→ EXISTING LUMINAIRE	
□ PROPOSED LOOP DETECTOR (TYPE 1 OR 2)	
□ EXISTING LOOP DETECTOR (TYPE 1 OR 2)	

**CURB RAMP DETAILS**  
FIELD ADJUSTMENTS AS REQUIRED



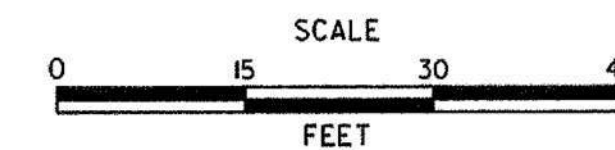
**ADDITIONAL NOTES**

- INSTALL WAVETRONIX MATRIX DETECTORS PRIOR TO DISCONNECTING EXISTING TRAFFIC LOOPS. INSTALL AND MAINTAIN WAVETRONIX MATRIX DETECTORS THROUGHOUT CONSTRUCTION, UNTIL PROPOSED LOOPS ARE OPERATIONAL.
- MOUNT THE WAVETRONIX MATRIX DETECTORS TO STRAIN POLES 1 AND 5 AS SHOWN ON THE TEMPORARY DETECTION PLAN. MOUNT THE DEVICES AT A MANUFACTURER RECOMMENDED HEIGHT OF 15-25 FEET ABOVE THE PAVEMENT GRADE.
- UTILIZE THE SUPPLIED WAVETRONIX MATRIX CABLES TO CONNECT THE DETECTORS TO THE CABINET, USING CONDUITS #2 & #3, AS WELL AS THE SPAN WIRE, AS SHOWN ON THE TEMPORARY DETECTION PLAN.
- COORDINATE WITH TMC 10 DAYS PRIOR TO DISCONNECTING TRAFFIC LOOPS AS WELL AS PRIOR TO REACTIVATING TRAFFIC LOOPS.
- ONCE THE PROPOSED LOOP DETECTORS ARE OPERATIONAL, ADJUST WAVETRONIX MATRIX DETECTION ZONES TO MATCH THE PERMANENT STRIPING CONDITION AS NEEDED, AND ENSURE THAT THE DETECTORS OPERATE PROPERLY. DEACTIVATE THE WAVETRONIX SYSTEM IN THE CONTROLLER CABINET IN THE PERMANENT CONDITION. THE SYSTEM WILL REMAIN IN PLACE FOR FUTURE USE.
- FIELD SURVEY TO BE PERFORMED BY THE WAVETRONIX REP. CONTACT DON HENRY AT 302-390-1523 AT LEAST TWO WEEKS IN ADVANCE OF ANY WORK INVOLVING WAVETRONIX DEVICES.

**ADDITIONAL LEGEND**

- ▨ MINIMUM DETECTION ZONE
- WAVETRONIX MATRIX DETECTION

**CURB RAMP DETAILS**  
FIELD ADJUSTMENTS AS REQUIRED



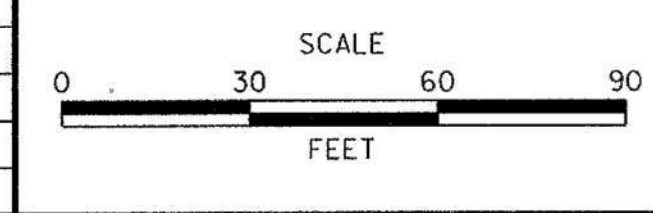
- GENERAL SIGNAL NOTES**
- ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELOTT TRAFFIC - DOVER, DELAWARE.
  - POLE BASES, CABINET BASE AND/OR CONDUIT JUNCTION WELLS SHALL BE REMOVED AS SHOWN ON THE PLAN. REMOVAL WORK SHOULD BE INCIDENTAL TO STANDARD ITEM 21000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS. EXISTING CONDUIT IS TO BE ABANDONED.
  - ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS, SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
  - ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELOTT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.

W:\MSVB\CELLS\PROJDEV\SB-CEL

RECOMMENDED Andrew Parker DATE: 12/4/12      RECOMMENDED \_\_\_\_\_ DATE: \_\_\_\_\_      RECOMMENDED \_\_\_\_\_ DATE: \_\_\_\_\_      APPROVED TRAFFIC ENGINEER Manuel C. Hite, PE DATE: 12/14/12      APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER Will Long DATE: 12/14/12



ADDENDUM / REVISIONS	



**PAPER MILL ROAD**  
**SIDEWALK IMPROVEMENTS**

CONTRACT	T200920002	PERMIT NO.	N365
COUNTY	NEW CASTLE COUNTY	DESIGNED BY:	MT
		CHECKED BY:	MAA

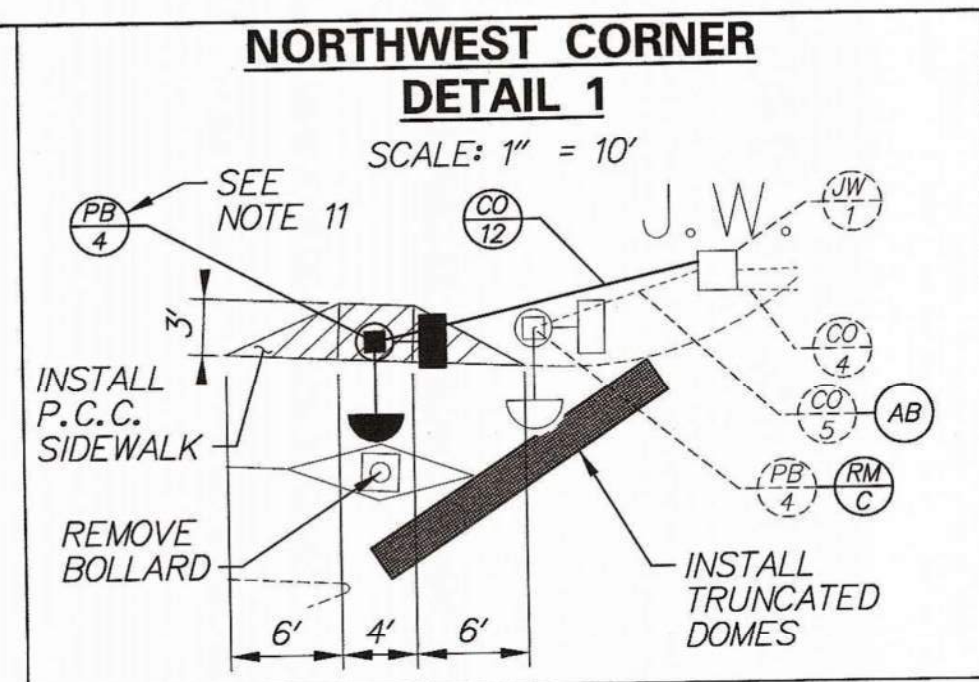
**SIGNAL PLAN**  
**CORNER KETCH RD @**  
**PAPER MILL RD**

SHEET NO. 29  
TOTAL SHTS. 34

SG-01

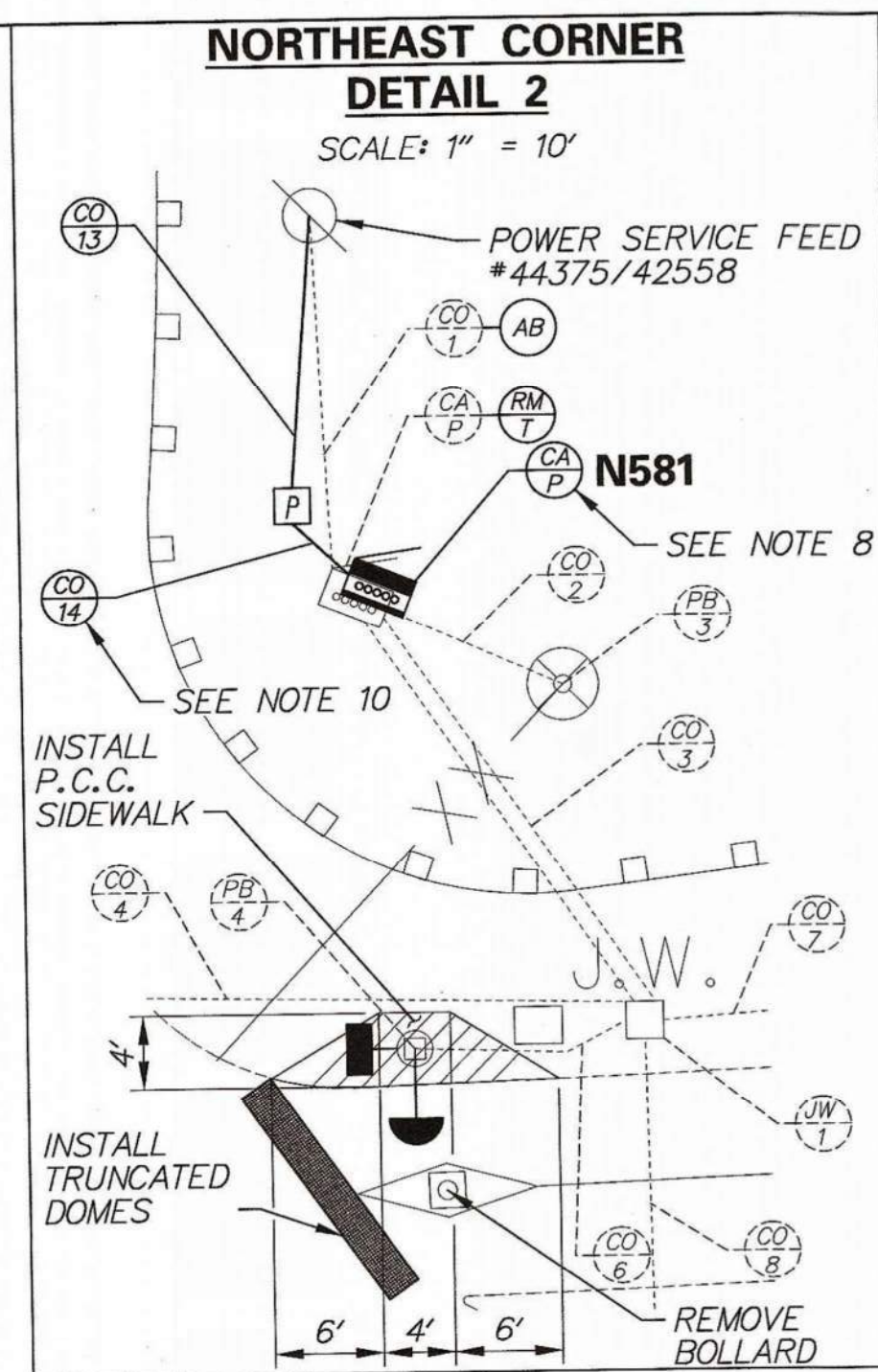
CONDUIT RUN SCHEDULE					
CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
1*	1	1.5 IN	20 FT	-	<REMOVE EX. (1) 2/*8 U.F. W/GROUND>
2*	1	2.5 IN	9 FT	-	<TO REMAIN - EX. (2) 16/*14, EX. (4) 4/*18 WAVETRONIX XP21 CABLE [NEW (1) #6 GROUND]>
3*	2	2.5 IN	25 FT	-	<REMOVE EX. (1) 9/*14, TO REMAIN - EX. (1) 9/*14, EX. (6) 4/*18 [NEW (1) 5/*14, (1) #6 GROUND]>
4*	1	2.5 IN	65 FT	-	<REMOVE EX. (1) 9/*14, TO REMAIN - EX. (1) 4/*18 [NEW (1) 5/*14, (1) #6 GROUND]>
5*	1	2.5 IN	9 FT	-	<REMOVE EX. (1) 9/*14>
6*	1	2.5 IN	12 FT	-	<TO REMAIN - EX. (1) 9/*14>
7*	1	2.5 IN	230 FT	-	<TO REMAIN - EX. (1) 4/*18>
8*	1	2.5 IN	76 FT	-	<TO REMAIN - EX. (3) 4/*18>
9*	1	2.5 IN	46 FT	-	<TO REMAIN - EX. (2) 4/*18>
10*	1	1.5 IN	62 FT	-	<TO REMAIN - EX. (1) 4/*18>
11*	1	1.5 IN	260 FT	-	<TO REMAIN - EX. (1) 4/*18>
12	1	2.5 IN	18 FT	T	[NEW (1) 5/*14, (1) #6 GROUND]
13**	1	2.0 IN	15 FT	T	[NEW (1) 2/*8 U.F. W/GROUND - LINE SIDE]
14**	1	2.0 IN	4 FT	T	[NEW (1) 2/*8 U.F. W/GROUND - LOAD SIDE]

\* DENOTES EXISTING CONDUIT  
 \*\* GALVANIZED STEEL CONDUIT (PROPOSED)  
 B = BORE, T = TRENCH, O = OPEN CUT



**ADDITIONAL LEGEND**

- MINIMUM DETECTION ZONE
- XP21 WAVETRONIX DETECTION



**TEMPORARY FOR USE ONLY DURING CONSTRUCTION**

**PREPARED BY**  
JMT

*Mir A. Wahed*

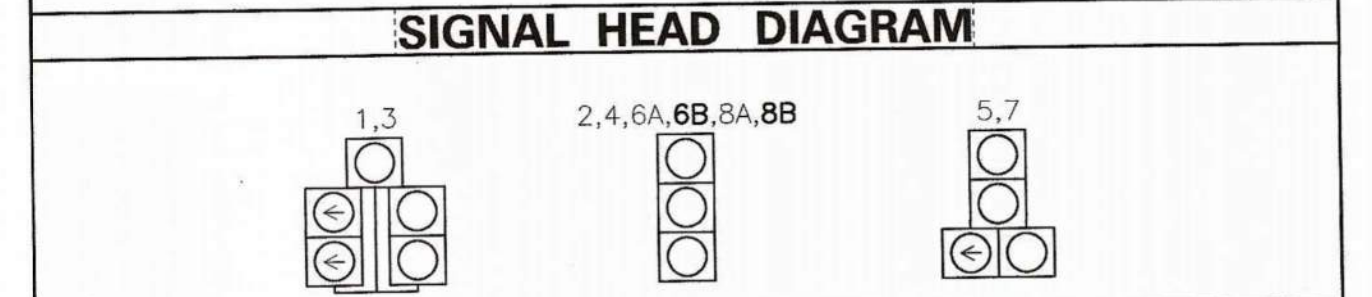
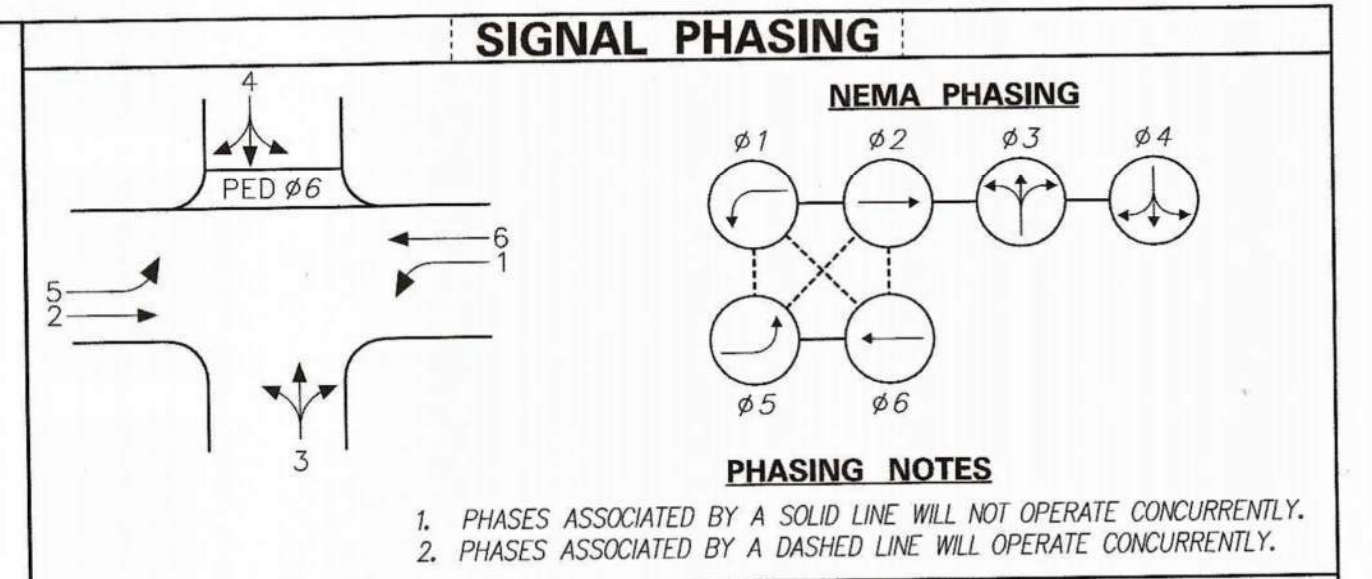
7/16/24  
DATE

**CONCURRENCE FOR INSTALLATION**

*[Signature]*

7/16/2024  
DATE

CHIEF OF TRAFFIC ENGINEERING



	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1		
LOOP DETECTOR, TYPE 2		
LUMINAIRE		
MAST ARM		
MICROWAVE DETECTION		
OPTICOM RECEIVER		
OVERHEAD SIGNING		
PEDESTRIAN POLE/BASE		
PEDESTRIAN PUSHBUTTON		
PEDESTRIAN SIGNAL HEAD		
RIGHT-OF-WAY		
SERVICE PEDESTAL		
SIGNAL CABINET		
SIGNAL HEAD		
SIGNAL POLE/BASE		
SPAN INSULATOR		
SPAN WIRE		
UTILITY POLE		
VIDEO DETECTION		

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1		
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SERVICE PEDESTAL		
SIGNAL CABINET		
SIGNAL HEAD		
SIGNAL POLE/BASE		
SPAN INSULATOR		
SPAN WIRE		
UTILITY POLE		
VIDEO DETECTION		

**GENERAL SIGNAL NOTES**

- EXISTING LOOP DETECTORS (TO REMAIN):  
 TYPE #1 - 6' x 6' - NORTHBOUND AND SOUTHBOUND NEW LINDEN HILL ROAD THROUGH LANES  
 TYPE #2 - 6' x 25' - NORTHBOUND AND SOUTHBOUND NEW LINDEN HILL ROAD LEFT-TURN LANES  
 TYPE #3 - 6' x 25' - EASTBOUND AND WESTBOUND UPPER PIKE CREEK ROAD LEFT-TURN/THROUGH/RIGHT-TURN LANES
- ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.

- NOTES:**
- ALL WORK PERFORMED UNDER THIS PROJECT IS INTENDED TO OCCUR WITHIN DELDOT'S EXISTING RIGHT-OF-WAY BASED ON NEW CASTLE COUNTY TAX PARCEL MAPS.
  - THE CONTRACTOR SHALL REPLACE THE EXISTING PEDESTRIAN SIGNAL MODULE WITH A COUNTDOWN MODULE.
  - THE CONTRACTOR SHALL INSTALL THE PROPOSED APS STATION WITH THE PUSHBUTTON ROTATED SO THAT THE FACE OF THE PUSHBUTTON IS PARALLEL WITH THE CROSSING, AS SHOWN.
  - THE PROPOSED APS STATION SHALL BE SPliced TO THE EXISTING 9/\*14 CABLE.
  - DELDOT TRAFFIC SHALL INSTALL THE PROPOSED SIGNAL CABINET, TYPE P, WITH A NEMA EXTENSION RISER AND A CDMA.
  - THE CONTRACTOR SHALL REPOSITION SIGNAL HEADS 6A AND 8A TO PROPOSED LOCATIONS 6B AND 8B, AS SHOWN, TO PROVIDE AN 8' MIN. SPACING.
  - THE CONTRACTOR SHALL CONTACT KEN RIFE AT 302-222-5924 TO COORDINATE THE CONDUIT INSTALLATION INTO THE EXISTING P.C.C. CABINET BASE. THE INSTALLATION SHALL NOT BE VIA A "PUNCH" INTO THE SIDE OF THE ALUMINUM NEMA CABINET.
  - PROPOSED POLE BASES SUPPORTING POLES WITH PEDESTRIAN PUSHBUTTONS SHALL BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE FLAT (50:1 OR FLATTER) LANDING AREA OF THE CURB RAMP OR SIDEWALK IN ACCORDANCE WITH CURRENT ADA BEST PRACTICES. THESE POLE BASES SHALL BE FLUSH WITH THE ADJOINING LANDING AREA. THE PEDESTRIAN PUSHBUTTON SHOULD BE INSTALLED AT A HEIGHT OF 42 TO 48 INCHES ABOVE THE LANDING AREA/SIDEWALK, AND SHALL BE LOCATED SUCH THAT THE MAXIMUM REACH DISTANCE IS 10 INCHES FROM THE LANDING AREA TO THE FACE OF THE PUSHBUTTON. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE SIDEWALK LEVEL.

**ADDITIONAL NOTES**

- INSTALL WAVETRONIX XP21 DETECTOR PRIOR TO DISCONNECTING EXISTING TRAFFIC LOOPS. INSTALL AND MAINTAIN WAVETRONIX XP21 DETECTOR THROUGHOUT CONSTRUCTION, UNTIL PROPOSED LOOPS ARE OPERATIONAL.
- MOUNT THE WAVETRONIX XP21 DETECTOR TO STRAIN POLE 1 AS SHOWN ON THE TEMPORARY DETECTION PLAN. MOUNT THE DEVICE AT A MANUFACTURER RECOMMENDED HEIGHT OF 15-25 FEET ABOVE THE PAVEMENT GRADE. TRIM VEGETATION AS NECESSARY AROUND THE POLE FOR SENSOR PLACEMENT.
- UTILIZE THE SUPPLIED WAVETRONIX XP21 CABLES TO CONNECT THE DETECTOR TO THE CABINET, USING CONDUIT #2 AS SHOWN ON THE TEMPORARY DETECTION PLAN.
- COORDINATE WITH TMC 10 DAYS PRIOR TO DISCONNECTING TRAFFIC LOOPS AS WELL AS PRIOR TO REACTIVATING TRAFFIC LOOPS.
- ONCE THE PROPOSED LOOP DETECTOR IS OPERATIONAL, ADJUST WAVETRONIX XP21 DETECTION ZONES TO MATCH THE PERMANENT STRIPING CONDITION AS NEEDED, AND ENSURE THAT THE DETECTOR OPERATES PROPERLY. DEACTIVATE THE WAVETRONIX SYSTEM IN THE CONTROLLER CABINET IN THE PERMANENT CONDITION. THE SYSTEM WILL REMAIN IN PLACE FOR FUTURE USE.
- FIELD SURVEY TO BE PERFORMED BY THE WAVETRONIX REP. CONTACT DON HENRY AT 302-390-1523 AT LEAST TWO WEEKS IN ADVANCE OF ANY WORK INVOLVING WAVETRONIX DEVICES.

RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	RECOMMENDED <i>[Signature]</i> DATE: 7/11/24	APPROVED TRAFFIC ENGINEER _____ DATE: _____																				
APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER <i>[Signature]</i> DATE: 7/16/24																							
		<table border="1"> <tr> <td>CONTRACT</td> <td>PERMIT NO.</td> <td rowspan="3" style="text-align: center;"><b>N581</b></td> </tr> <tr> <td>T201004003</td> <td>DESIGNED BY: B.M.W. (WRA)</td> </tr> <tr> <td>COUNTY</td> <td>CHECKED BY: M.J.B. (WRA)</td> </tr> <tr> <td>NEW CASTLE</td> <td></td> <td></td> </tr> </table>	CONTRACT	PERMIT NO.	<b>N581</b>	T201004003	DESIGNED BY: B.M.W. (WRA)	COUNTY	CHECKED BY: M.J.B. (WRA)	NEW CASTLE			<table border="1"> <tr> <td colspan="2" style="text-align: center;"><b>APS SIGNAL PLAN</b></td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>NEW LINDEN HILL ROAD</b></td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>@ UPPER PIKE CREEK ROAD</b></td> </tr> <tr> <td style="text-align: center;">SHEET NO.</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">TOTAL SHTS.</td> <td style="text-align: center;">1</td> </tr> </table>	<b>APS SIGNAL PLAN</b>		<b>NEW LINDEN HILL ROAD</b>		<b>@ UPPER PIKE CREEK ROAD</b>		SHEET NO.	1	TOTAL SHTS.	1
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NA 32028-003\CADD\SS01-New Linden Hill Rd at Upper Pike Creek Rd.dgn 7/17/2024 10:50:16 AM