04**=**25**=**2025 LETTING ITEM 104

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

### | F.A. | SECTION | COUNTY | TOTAL SHEETS | NO. | TO

P-95-013-25

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-4

## PROPOSED HIGHWAY PLANS

FAI ROUTE 74 (I 74)
SECTION (74-3)I
PROJECT NHPP-Y5DJ(830)
MICROSURFACING JOINT REPAIR
PIATT COUNTY
1 MI E OF 900E RD TO
C-95-042-25

1.3 MI W OF CHAMPAIGN CO LINE

TRA	FFIC DATA	1
	LEG "A"	LEG "B"
2024 ADT=	21,500	22,800
P.U. %	66.9	66.9
S.U. %	3.8	4.6
M.U. %	29.3	28.5

 $\bigcirc$ 

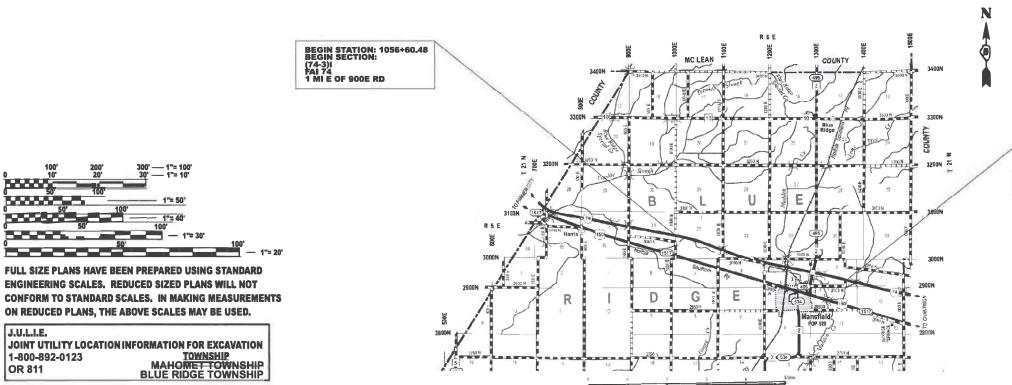
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#### TRAFFIC DATA LOCATIONS

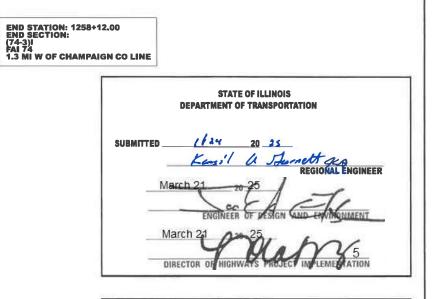
LEG "A" IS 1-74 FROM 1.0 MILE E. OF 900E RD TO FAS 495
LEG "B" IS 1-74 FROM FAS 495 TO 1.3 MILES W. OF CHAMPAIGN CO. LINE



GROSS LENGTH = 20,151.5 FT. = 3.816 MILE NET LENGTH = 20,151.5 FT. = 3.816 MILE

PROJECT ENGINEER: RYAN T. CARROLL SQUAD LEADER: TYLER J. PIERSON DESIGNER: AARON FARNHAM PHONE NUMBER: 217-465-4181

CONTRACT NO. 70H56



LOCATION OF SECTION INDICATED THUS: -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

#### INDEX OF SHEETS

#### SHEET NO. DESCRIPTION

1 COVE

2 INDEX OF SHEETS. GENERAL NOTES. LIST OF HIGHWAY STANDARDS. & COMMITMENTS

3 to 4 SUMMARY OF QUANTITIES
5 TYPICAL CROSS SECTIONS
6 SCHEDULE OF QUANTITIES

7 to 8 DISTRICT 5 DETAIL - PAVEMENT MARKING (INTERSTATE & MULTI-LANE APPLICATIONS)

### HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001 - 08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701400 - 12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401 - 13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701426 - 09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS $\geq$ 45 MPH
701901 - 10	TRAFFIC CONTROL DEVICES
781001 - 04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

#### **GENERAL NOTES**

G.N.-703A

SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (TACK COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

G.N.-781

SCALE:

THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS.

#### **COMMITMENTS**

THERE ARE NO COMMITMENTS FOR THIS CONTRACT

 USER NAME
 = Bradley,Famham
 DESIGNED - REVISED - R

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS,
COMMITMENTS & GENERAL NOTES

SHEET 1 OF 1 SHEETS STA. TO STA.

 
 F.A.I RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEETS NO.

 74
 (74-3)I
 PIATT
 11
 2

 CONTRACT NO. 70H56

WODEL: Index [Sneet]

## SUMMARY OF QUANTITIES

LOCATION OF WORK: FAI 74 (I 74)

RURAL

STA. 1060+00.00 TO STA. 1258+12.00

PIATT COUNTY

INTERSTATE

FUNDING BREAKOUT: 90% FED / 10% STATE

CONSTRUCTION TYPE CODE:

	CODE NO.	<u>ITEM</u>	UNIT	TOTA_ QUANTITY	
	40400001	FIBER-MODIFIED ASPHALT CRACK SEALING	FOOT	40,304.0	40,304
	40400118	MICRO-SURFACING, SINGLE PASS	SQ YD	13,435.0	13,43
1	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	3,023.0	3,02
_	67100100	MOBILIZATION	L SUM	1.0	
-					
	70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	4.0	
	70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1.0	
					_
-	70107025	CHANGEABLE MESSAGE SIGN	CAL DAY	14.0	14
	70200100	SUPER TERM DAVEMENT MARKING	5007	4 021 0	4 023
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	4,031.0	4,03
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1,344.0	1,344
+	70300130	STORT TERM FAVERENT MARKING REPOVAL	34 11	1,344.0	
	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	10,076.0	10,076
					22721
	78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	10,076.0	10,076
1					
	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1,008.0	1,008
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1,008.0	1,00
	78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	3,359.0	3,35
)EN	NOTES SPECIAL	TY ITEM			

MODEL: Summary of Quantities-1 [Sheet]

USER NAME = Bradley.Farnham	DESIGNED - BAF	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 1/27/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

S	UMMARY	OF QUA	NTITIES	}		F.A.I RTE.	SEC.	TION		COUNTY	
						74	(74	-3)I		PIATT	
										CONTRA	c
SHEET 1	OF 2	SHEETS	STA	TO S	ΓΔ			III INOIS	EED AL	D DDO JECT	_

## SUMMARY OF QUANTITIES

LOCATION OF WORK: FAI 74 (I 74)

RURAL

INTERSTATE

STA. 1060+00.00 TO STA. 1258+12.00

PIATT COUNTY

FUNDING BREAKOUT:

90% FED / 10% STATE

CONSTRUCTION TYPE CODE:

0005

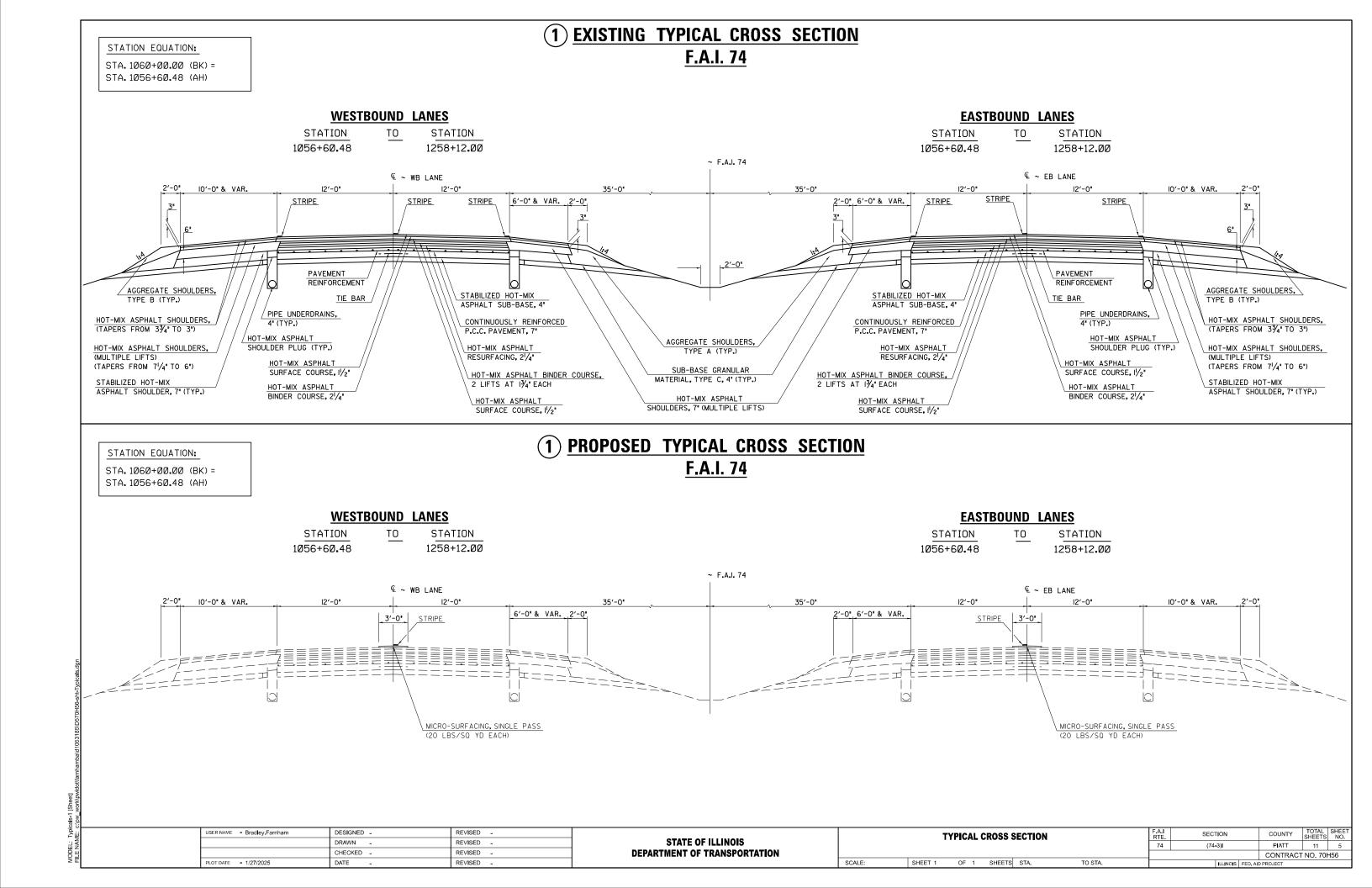
CODE NO.	<u>ITEM</u>	UNIT	TOTAL QUANTITY	
V7010110	TEMPORARY RINKING STRIPS (SEEGLE)	FACILITY OF THE PROPERTY OF TH		1.0
X7010118	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	16.0	16
X7011854	REAL-TIME TRAFFIC CONTROL CENTRAL BASE UNIT	CAL MO	1.0	1
X7011856	REAL-TIME TRAFFIC CONTROL SENSOR UNIT	CAL MO	16.0	16
X7011860	REAL-TIME TRAFFIC CONTROL WARNING SIGN	CAL MO	8.0	8
A. 1000 - 1000 000000 0000000			33400	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.0	1
TES SPECIALT				

MODEL: Summary of Quantities-2 [Sheet]

USER NAME - Bradley Farmam	DESIGNED - DAF	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 1/27/2025	DATE -	REVISED -

SCALE:

SUMMARY OF QUANTITIES						F.A.I RTE.	SEC <sup>-</sup>	TION		COUNTY	TOTAL SHEETS	SHEET NO.
						74	(74-	-3)I		PIATT	11	4
										CONTRACT	NO. 701	<b>⊣</b> 56
SHEET 2	OF	2	SHEETS	STA.	TO STA.			ILLINOIS	FED. AII	PROJECT		



## SCHEDULE OF QUANTITIES

					40400001	40400118	40600290	70300100	70300150	78000400	78100100	78300200	78300201	78011035
												RAISED	PAVEMENT	GROOVING
									SHORT TERM		RAISED	REFLECTIVE	MARKING	FOR
					FIBER-MODIFIED	MICRO-	BITUMINOUS	SHORT TERM	PAVEMENT	THERMOPLASTIC	REFLECTIVE	PAVEMENT	REMOVAL-	RECESSED
					ASPHALT CRACK	SURFACING	MATERIALS	PAVEMENT	MARKING	PAVEMENT	PAVEMENT	MARKER	GRINDING	PAVEMENT
				LENGTH	SEALING	SINGLE PASS	(TACK COAT)*	MARKING	REMOVAL	MARKING - LINE 6"	MARKER	REMOVAL	**	MARKING 7"
LOCATION	DESCRIPTION	STATION TO	O STATION	(FOOT)	(FOOT)	(SQ YD)	(POUND)	(FOOT)	(SQ FT)	(FOOT)	(EACH)	(EACH)	(SQ FT)	(FOOT)
EB I-74	CENTERLINE	1056+60.48 To	1258+12.00	20,151.5	20,151.5	6,717.2	1,511.4	2,015.2	671.7	5,037.9	504.0	504.0	1,679.3	5,037.9
WB I-74	CENTERLINE	1056+60.48 To	1258+12.00	20,151.5	20,151.5	6,717.2	1,511.4	2,015.2	671.7	5,037.9	504.0	504.0	1,679.3	5,037.9
				TOTAL =	40,303.0	13,434.3	3,022.7	4,030.3	1,343.4	10,075.8	1,008.0	1,008.0	3,358.6	10,075.8
				ROUNDED =	40,304.0	13,435.0	3,023.0	4,031.0	1,344.0	10,076.0	1,008.0	1,008.0	3,359.0	10,076.0

<sup>\*</sup>RESIDUAL ASPHALT RATE lb/sq ft (0.025)

TEL 10.00 4.00		CTRING							
TEMPORAR	TEMPORARY RUMBLE STRIPS								
		X7010118							
		TEMPORARY RUMBLE							
		STRIPS (SPECIAL)							
APPROX. LOCATION	LANE	(EACH)							
± 1.5 MI BEFORE TAPER	EBDL	2							
± 1.5 MI BEFORE TAPER	EBPL	2							
± 3 MI BEFORE TAPER	EBDL	2							
± 3 MI BEFORE TAPER	EBPL	2							
± 1.5 MI BEFORE TAPER	WBDL	2							
± 1.5 MI BEFORE TAPER	WBPL	2							
± 3 MI BEFORE TAPER	WBDL	2							
± 3 MI BEFORE TAPER	WBPL	2							
	TOTAL =	16							

CHANGEABLE MESSAGE SIGN							
	70107025						
	CHANGEA						
	BLE						
	MESSAGE						
	SIGN						
DESCRIPTION	(DAYS)						
EB I-74 ADVANCE NOTICE	7						
WB I-74 ADVANCE NOTICE	7						
TOTAL =	14						

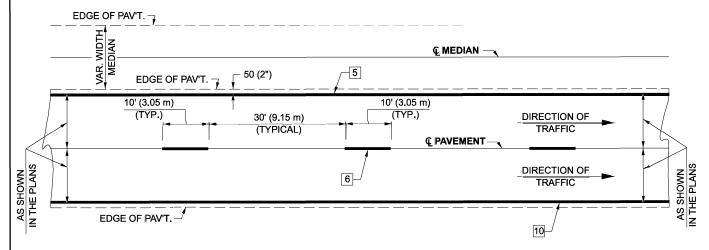
DEL: Schedules-1 [Sheet] = NAME: orlang work/amideMfamhanha\d4062496]D670H6

USER NAME = Bradley.Famham	DESIGNED - BAF	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 1/27/2025	DATE -	REVISED -	

S	CHEDUL	E OF QU	ANTITIES	;	F.A.I RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.			
					74	(74 <b>-</b> 3)I		PIATT	11	6			
						CONTRACT NO. 70H5				<b>⊣</b> 56			
SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS	FED. AII	D PROJECT					

<sup>\*\*</sup>REMOVE EXISTING THERMO

#### CENTERLINE INTERSTATE OR MULTI-LANE TWO WAY DIVIDED HIGHWAY



NOTE: PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE. NOTE: SEE ARTICLES 780.04 & 781.03 FOR LOCATION OF STRIPES AND MARKERS RELATIVE TO EDGES OR JOINTS.

FOR RAISED REFLECTIVE PAVEMENT MARKERS, REFER TO STANDARD 781001.

1 4" (100) SKIP-DASH (YELLOW)

3 12" (300) DIAGONAL (YELLOW)

2 4" (100) SOLID (YELLOW)

5 6" (150) SOLID (YELLOW)

6 6" (150) SKIP-DASH (WHITE)

7 4" (100) SKIP-DASH (WHITE)

9 12" (300) DIAGONAL (WHITE)

11 24" (600) STOP BAR (WHITE)

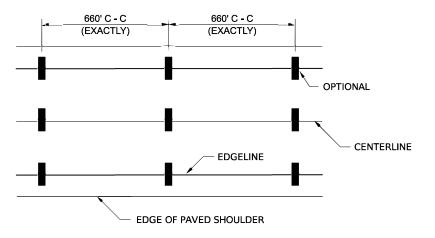
13 6" (150) LANE LINE EXTENSIONS (WHITE)

8 4" (100) SOLID (WHITE)

10 6" (150) SOLID (WHITE)

12 8" (200) SOLID (WHITE)

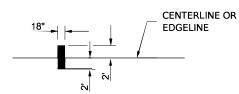
#### TYPICAL PAVEMENT MARKING LEGEND



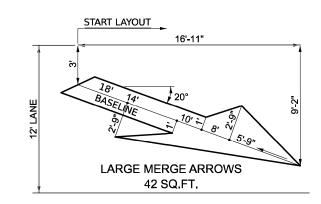
IT WILL BE NECESSARY TO HAVE A REPRESENTATIVE OF THE STATE POLICE PRESENT SO THAT THE ACCURACY OF MEASUREMENT CAN BE ATTESTED TO IN COURT.

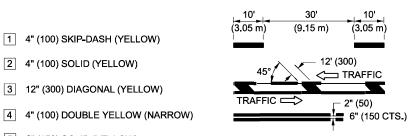
USER NAME = Bradley.Farnham

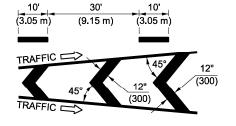
PLOT DATE = 1/27/2025

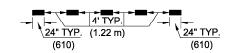


#### **AERIAL SPEED CHECK ZONES**



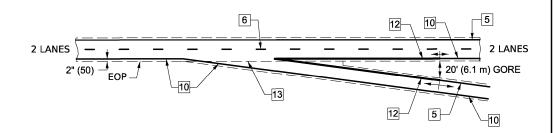




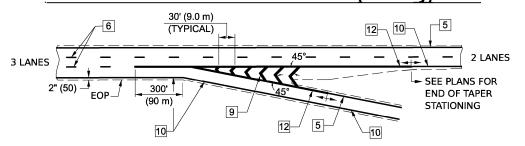


SCALE:

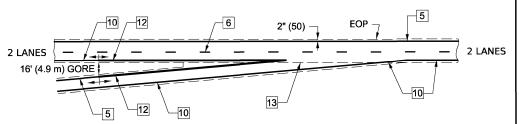
#### TYPICAL EXIT RAMP TERMINAL



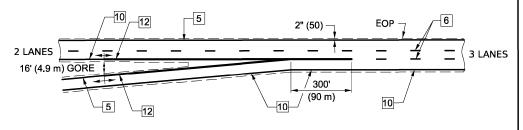
#### **EXIT RAMP TERMINAL with EXCLUSIVE (auxiliary) LANE**



#### TYPICAL ENTRANCE RAMP TERMINAL



#### **ENTRANCE RAMP TERMINAL with EXCLUSIVE LANE**



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800BBBB											
<u> </u>	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.							
	(74-3)	PIATT	11	7							

STATE OF ILLINOIS

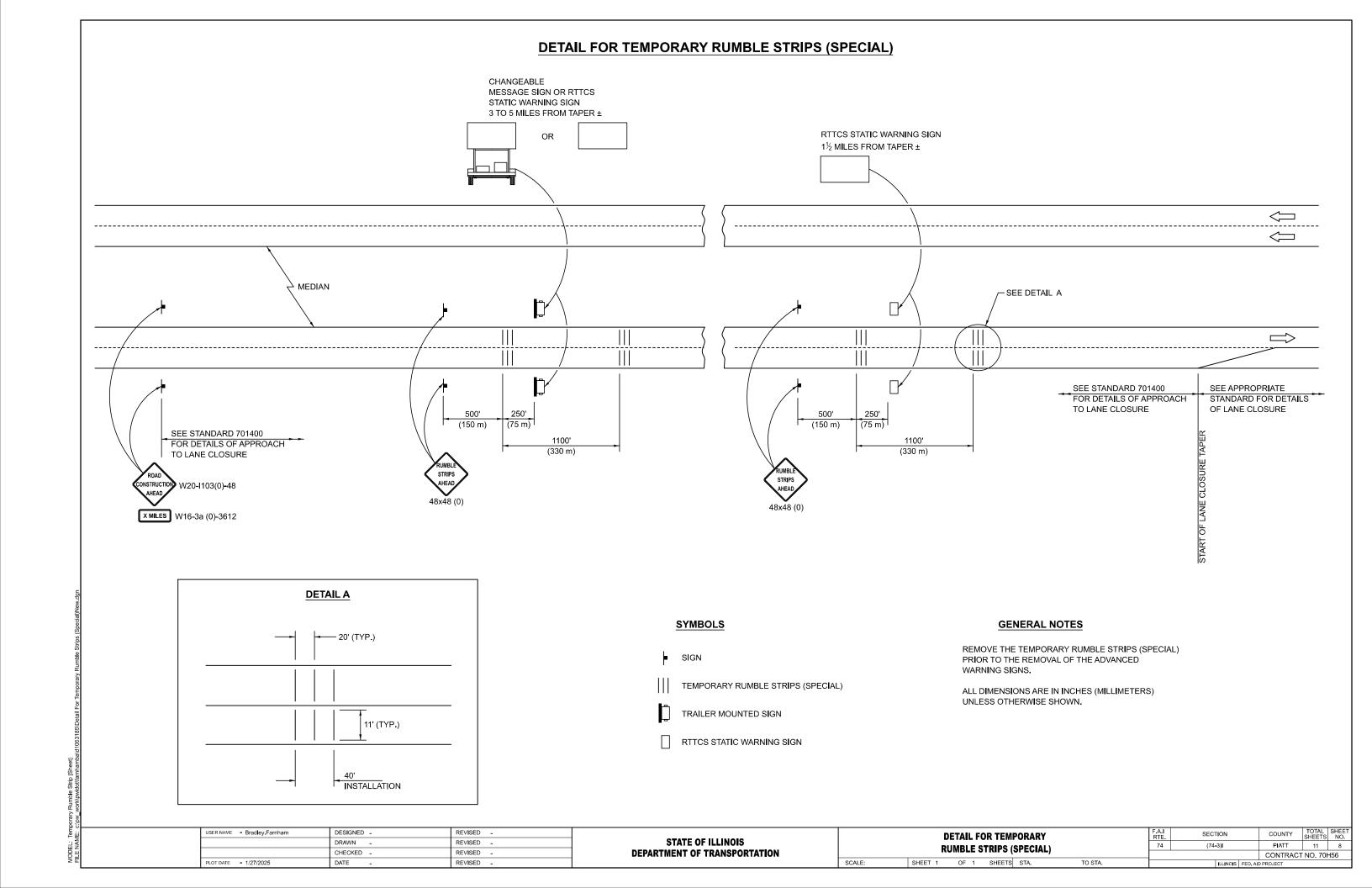
**DISTRICT 5 DETAIL** NO. 7800BBBB SHEET 1 OF | SHEETS STA

TO STA.

CONTRACT NO. 70H56

DESIGNED -REVISED -DRAWN REVISED CHECKED REVISED DATE REVISED \_

**DEPARTMENT OF TRANSPORTATION** 



# REAL-TIME TRAFFIC CONTROL SYSTEM EASTBOUND

- 🗂 RTTCS STATIC WARNING SIGN
  - •PAID FOR AS REAL-TIME TRAFFIC CONTROL WARNING SIGN
  - •48" X 96" (1200MM X 2400MM) WARNING SIGN THAT SAYS
  - "STOPPED TRAFFIC NEXT MILE WHEN FLASHING"

STOPPED TRAFFIC NEXT MILE WHEN FLASHING

- SINGLE PORTABLE CHANGEABLE MESSAGE SIGN PLACED ½ MILE IN ADVANCE OF 4TH RTTCS BOARD. IT SHALL READ "RIGHT/LEFT LANE CLOSED/X MILES AHEAD"

  •THIS PORTABLE CHANGEABLE MESSAGE SIGN IS INCLUDED IN STANDARD 701400
- SPEED SENSOR

•PAID FOR AS REAL-TIME TRAFFIC CONTROL MONITORING SENSOR UNIT

### NOTES:

THE NUMBER AND LOCATION OF RTTCS STATIC WARNING SIGNS MAY BE CHANGED AS DIRECTED BY THE ENGINEER. RELOCATION OF RTTCS STATIC WARNING SIGNS IS INCLUDED IN THE RTTCS PAY ITEMS.

SPEED SENSORS SPACED APPROXIMATELY EVERY 1/2 MILE. RTTC STATIC WARNING SIGNS SPACED EVERY 1 MILE.

RTTC = REAL-TIME TRAFFIC CONTROL

RTTCS = REAL-TIME TRAFFIC CONTROL SYSTEM

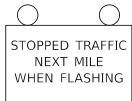




USER NAME = Bradley.Farnham	DESIGNED -	REVISED -				REAL T	IMF TRA	AFFIC		F.A.I	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS					<del>-</del> -		74	(74-3)I	PIATT	11	9
	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	CONTROL SYSTEM					T NO. 70F	H56				
PLOT DATE = 1/27/2025	DATE -	REVISED -								ILLINOIS FED. AI	D PROJECT			

# REAL-TIME TRAFFIC CONTROL SYSTEM WESTBOUND

- 🗂 RTTCS STATIC WARNING SIGN
  - •PAID FOR AS REAL-TIME TRAFFIC CONTROL WARNING SIGN
  - •48" X 96" (1200MM X 2400MM) WARNING SIGN THAT SAYS
  - "STOPPED TRAFFIC NEXT MILE WHEN FLASHING"



- SINGLE PORTABLE CHANGEABLE MESSAGE SIGN PLACED  $\frac{1}{2}$  MILE IN ADVANCE OF 4TH RTTCS BOARD. IT SHALL READ "RIGHT/LEFT LANE CLOSED/X MILES AHEAD"
  - •THIS PORTABLE CHANGEABLE MESSAGE SIGN IS INCLUDED IN STANDARD 701400
- S SPEED SENSOR
  - •PAID FOR AS REAL-TIME TRAFFIC CONTROL MONITORING SENSOR UNIT

#### NOTES:

THE NUMBER AND LOCATION OF RTTCS STATIC WARNING SIGNS MAY BE CHANGED AS DIRECTED BY THE ENGINEER. RELOCATION OF RTTCS STATIC WARNING SIGNS IS INCLUDED IN THE RTTCS PAY ITEMS.

SPEED SENSORS SPACED APPROXIMATELY EVERY 1/2 MILE. RTTC STATIC WARNING SIGNS SPACED EVERY 1 MILE.

RTTC = REAL-TIME TRAFFIC CONTROL

RTTCS = REAL-TIME TRAFFIC CONTROL SYSTEM



 USER NAME
 = Bradley.Famham
 DESIGNED
 REVISED

 DRAWN
 REVISED

 CHECKED
 REVISED

 PLOT DATE
 = 1/27/2025
 DATE
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 2

 REAL TIME TRAFFIC
 F.A.J RTE.
 SECTION
 COUNTY
 TOTAL SHEET SNO.

 CONTROL SYSTEM
 74
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 OF 2 SHEETS STA.
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