

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-107-T	DUPAGE/COOK	30	1
		ILLINOIS	CONTRACT NO	62H40

# PROPOSED HIGHWAY PLANS

VARIOUS ROUTES  
SECTION: 2018-107-T  
DRAINAGE IMPROVEMENT (SOUTH SECTION)  
VARIOUS COUNTY  
C-91-244-19

FOR INDEX OF SHEETS, SEE SHEET NO. 2

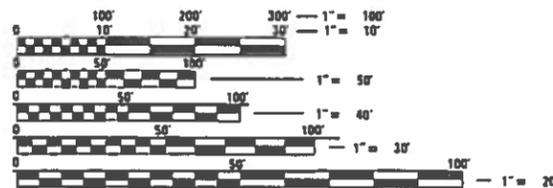
THE PROJECT IS LOCATED IN:  
 LOCATION 1: UNINCORPORATED DUPAGE COUNTY  
 LOCATION 2: CITY OF CHICAGO  
 LOCATION 3: VILLAGE OF JUSTICE  
 LOCATION 4: VILLAGE OF PALOS PARK

**LOCATION 1 (IL ROUTE 56)**  
 2017 ADT = 22,700  
 POSTED SPEED LIMIT = 50 MPH  
 DESIGN DESIGNATION: PRINCIPAL ARTERIAL

**LOCATION 2 (I-55)**  
 2018 ADT = 190,600  
 POSTED SPEED LIMIT = 55 MPH  
 DESIGN DESIGNATION: INTERSTATE

**LOCATION 3 (79TH STREET)**  
 2017 ADT = 27,700  
 POSTED SPEED LIMIT = 45 MPH  
 DESIGN DESIGNATION: MINOR ARTERIAL

**LOCATION 4 (131ST STREET)**  
 2018 ADT = 10,500  
 POSTED SPEED LIMIT = 40 MPH  
 DESIGN DESIGNATION: MAJOR COLLECTOR

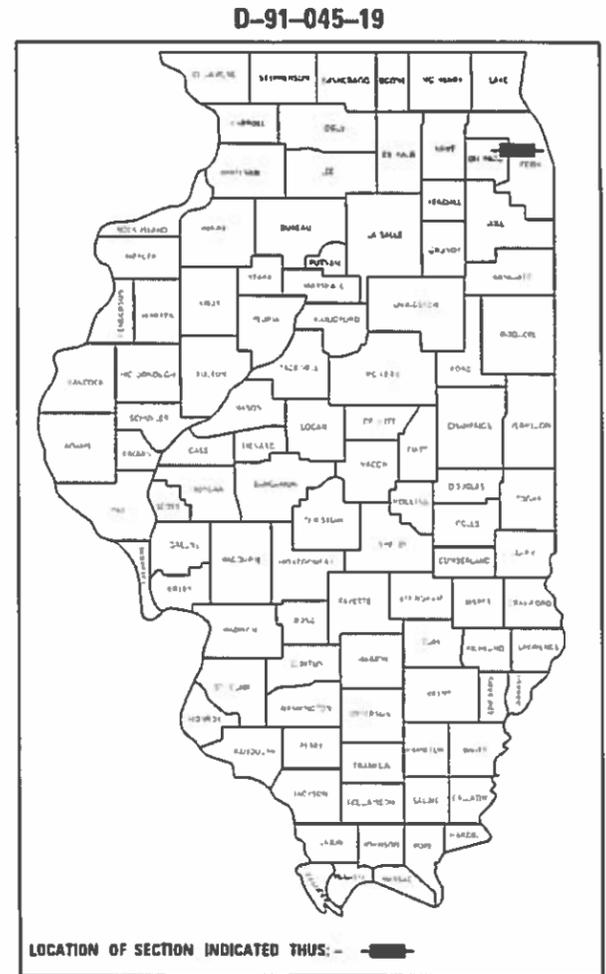


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
 1-800-892-0123  
 OR 811

PROJECT ENGINEER: DAN WILGREEN (847) 705-4240  
 PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62H40



FOR LOCATION MAPS SEE SHEET NO. 8

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUBMITTED DECEMBER 9 2019

*Anthony J. Quigley* / *AKB*  
 REGIONAL ENGINEER

*Dan Wilgreen* / *2020*  
 ENGINEER OF DESIGN AND ENVIRONMENT

*Dan Wilgreen* / *2020*  
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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30	BLANK SHEET

LIST OF STATE STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
602001-02	CATCH BASIN, TYPE A
602011-02	CATCH BASIN, TYPE C
602301-04	INLET, TYPE A
602401-06	PRECAST MANHOLE, TYPE A, 4' (1.22 M) DIAMETER
602402-02	PRECAST MANHOLE, TYPE A, 5' (1.52 M) DIAMETER
602421-08	PRECAST MANHOLE, TYPE A, 9' (2.74 M) DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-05	FRAME AND LIDS, TYPE 1
604021-04	BASE, FRAME AND LIDS, TYPE 5
604036-03	GRATE, TYPE 8
604051-04	FRAME AND GRATE, TYPE 11
635001-02	DELINEATORS
642001-02	SHOULDER RUMBLE STRIPS, 16 IN.
643001-02	SAND MODULE IMPACT ATTENUATORS
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS $\geq$ 45 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS $\geq$ 45 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701446-10	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS AND STANDARDS  
DRAINAGE IMPROVEMENT (SOUTH SECTION)**

SCALE: NONE    SHEET 1 OF 1 SHEETS    STA. -    TO STA. -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-107-T	DUPAGE/COOK	30	2
CONTRACT NO. 62H40				
ILLINOIS		FED. AID PROJECT		













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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL LOCATION MAP**  
**DRAINAGE IMPROVEMENT (SOUTH SECTION)**

SCALE: - SHEET 1 OF 1 SHEETS STA. - TO STA. -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-107-T	DUPAGE/COOK	30	8
			CONTRACT NO. 62H40	
		ILLINOIS	FED. AID PROJECT	

**STRUCTURE SCHEDULE**

ID	STATION	OFFSET	LID ELEVATION	INVERT				PAY ITEM
				N	S	W	E	
S101	21+46.78	58.21	739.13	736.82				CATCH BASINS, TYPE C, TYPE 8 GRATE
S102	21+46.71	49.51	739.65		736.84	736.41 EST	736.37 EST	*MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID

\*FLAT-SLAB TOP

**PIPE SCHEDULE**

ID	PAY ITEM	LENGTH (FT)	START STRUCTURE	START INVERT	END STRUCTURE	END INVERT	SLOPE	TRENCH BACKFILL (CUYD)
P101	STORM SEWERS, CLASS A, TYPE 1 12"	5.08	S101	736.82	S102	736.64	3.60%	0.40
P102	STORM SEWERS, CLASS A, TYPE 1 15"	8.00	-	MEET EX	S102	736.41	0.80%	1.03
P103	STORM SEWERS, CLASS A, TYPE 1 15"	8.00	S102	736.37	-	MEET EX	0.80%	1.07

**PROJECT ENDS  
STA 20+00**

**PROJECT ENDS  
STA 23+00**



EX ROW

BUTTERFIELD ROAD

20+00

PR STRUCTURE TO INTERCEPT EXISTING 15" RCP

P103 REMOVE AND REPLACE EXISTING STORM SEWER AS NEEDED

P102 REMOVE AND REPLACE EXISTING STORM SEWER AS NEEDED

C.E.

EXISTING FES

PR STORM SEWER

EXISTING FES

S101 PR CATCH BASIN

P101

CLASS D PATCH, 10"

EX ROW

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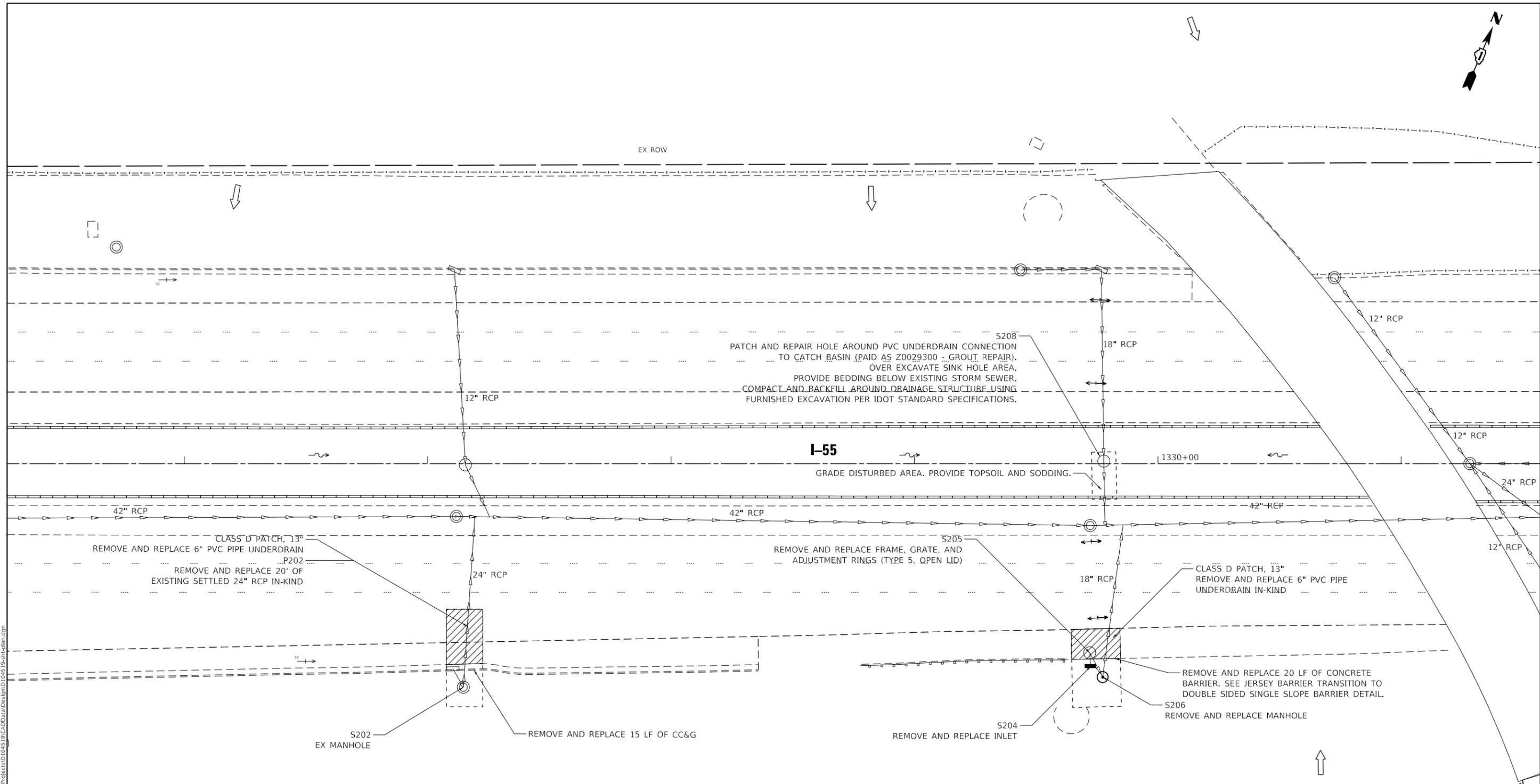
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LOCATION 1: IL RTE 56 (BUTTERFIELD ROAD)  
DRAINAGE IMPROVEMENT (SOUTH SECTION)**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. - TO STA. -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-107-T	DUPAGE/COOK	30	9
CONTRACT NO. 62H40				
ILLINOIS FED. AID PROJECT				



**STRUCTURE SCHEDULE**

ID	STATION	OFFSET	LID ELEVATION	INVERT				PAY ITEM
				N	S	W	E	
S202	1327+14.67	91.66	581.52	567.42		575.62		EXISTING MANHOLE
S204	1329+72.32	83.06	577.40	575.00				INLETS, TYPE A, TYPE 8 GRATE
S205	1329+72.01	77.55	577.89		574.79		574.99	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 5 FRAME, OPEN LID
S206	1329+77.34	87.50	580.17	566.42		573.57		*MANHOLES, TYPE A, 5'-DIAMETER, TYPE 5 FRAME, CLOSED LID
S208	1329+77.81	-1.02	576.69	571.14	565.84			EXISTING MANHOLE

**PIPE SCHEDULE**

ID	PAY ITEM	LENGTH	START STRUCTURE	START INVERT	END STRUCTURE	END INVERT	SLOPE	TRENCH BACKFILL
		(FT)						(CUYD)
P202	STORM SEWERS, CLASS A, TYPE 3 24"	20.00	-	MEET EX	-	MEET EX	2.98%	46.79

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	DATE - 12/20/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LOCATION 2: I-55  
DRAINAGE IMPROVEMENT (SOUTH SECTION)**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. - TO STA. -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-107-T	DUPAGE/COOK	30	10
CONTRACT NO. 62H40				
ILLINOIS FED. AID PROJECT				

**LOCATION 2: I-55 DRAINAGE IMPROVEMENT**

**SUGGESTED SEQUENCE OF CONTRUCTION**

PRE-STAGE

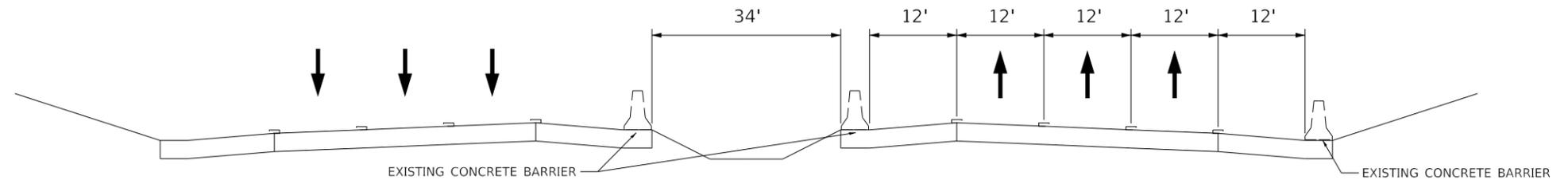
INSTALL 17" CLASS D PATCHES ON INSIDE NB SHOULDER BEFORE ANY OTHER WORK BEGINS.

STAGE 1

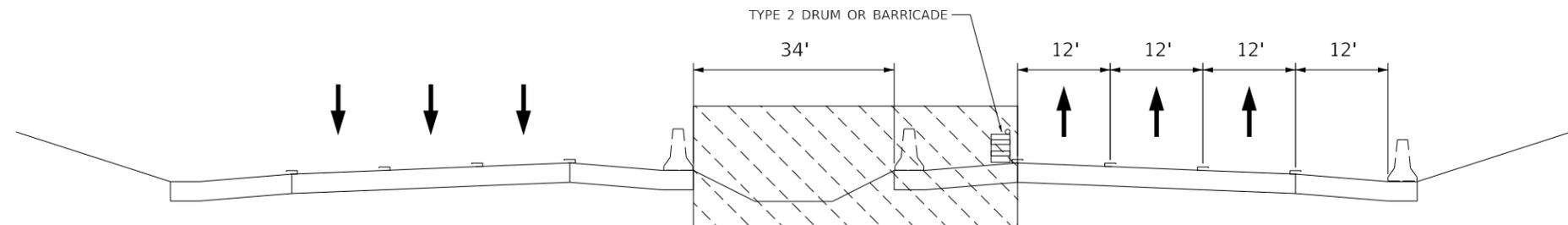
WORK IN MEDIAN AREA OF I-55 AND PART OF THE NB INSIDE SHOULDER. CLOSE INSIDE NB SHOULDER.

STAGE 2

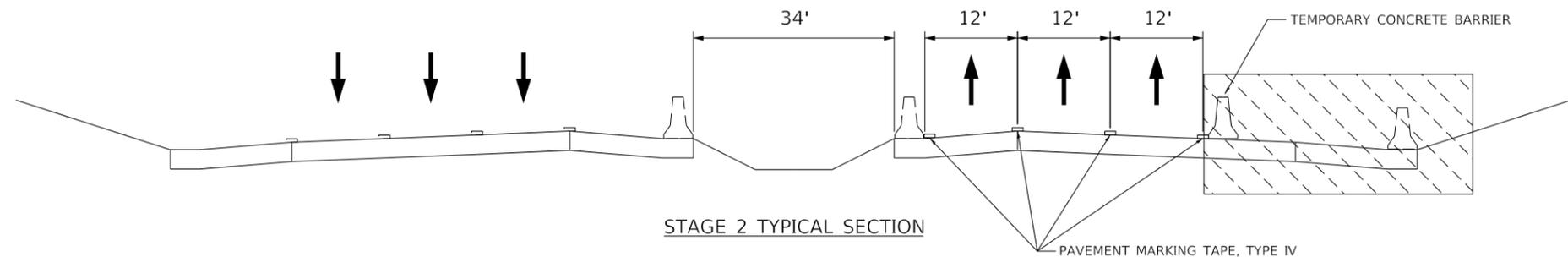
WORK ON RIGHT SIDE OF NB I-55. CLOSE OUTSIDE RIGHT LANE AND SHIFT TRAFFIC ONTO LEFT SHOULDER TO MAINTAIN 3 LANES OF THROUGH TRAFFIC. REMOVE CONFLICTING EXISTING PAVEMENT MARKING USING PAVEMENT MARKING REMOVAL - WATER BLASTING.



EXISTING TYPICAL SECTION



STAGE 1 TYPICAL SECTION



STAGE 2 TYPICAL SECTION

NOTES:

SEE KEEPING THE EXPRESSWAY OPEN TO TRAFFIC CONTRACT SPECIAL PROVISION FOR REQUIREMENTS FOR STAGE CHANGES. CONTRACTOR MUST PROVIDE MAINTENANCE OF TRAFFIC PLAN TO THE BUREAU OF TRAFFIC, EXPRESSWAYS SECTION 14 DAYS PRIOR TO ANY STAGE CHANGES.

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PLOT DATE = 12/20/2019		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LOCATION 2: I-55  
DRAINAGE IMPROVEMENT (SOUTH SECTION)  
SUGGESTED MAINTENANCE OF TRAFFIC**

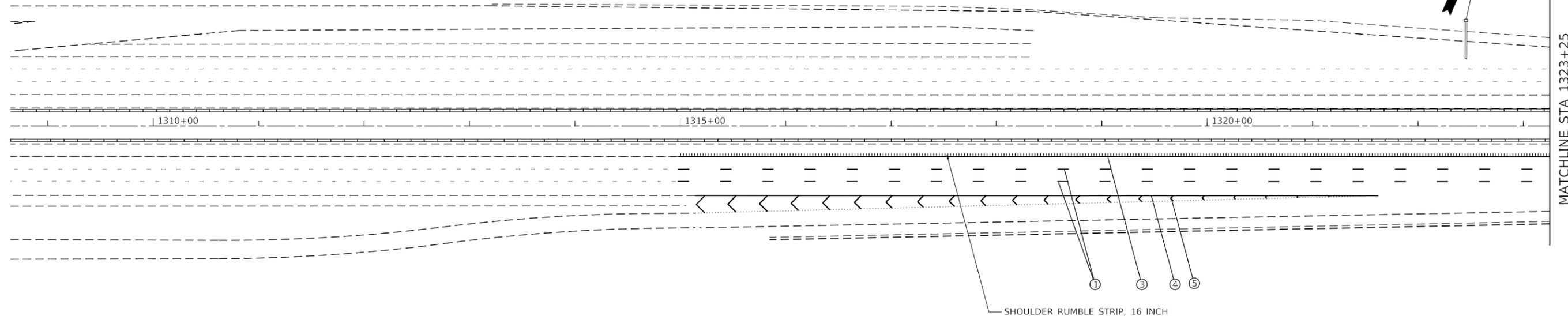
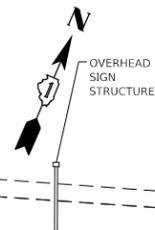
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-107-T	DUPAGE/COOK	30	11
CONTRACT NO. 62H40			ILLINOIS FED. AID PROJECT	





**PROJECT LIMITS**  
**STA 1310+00**



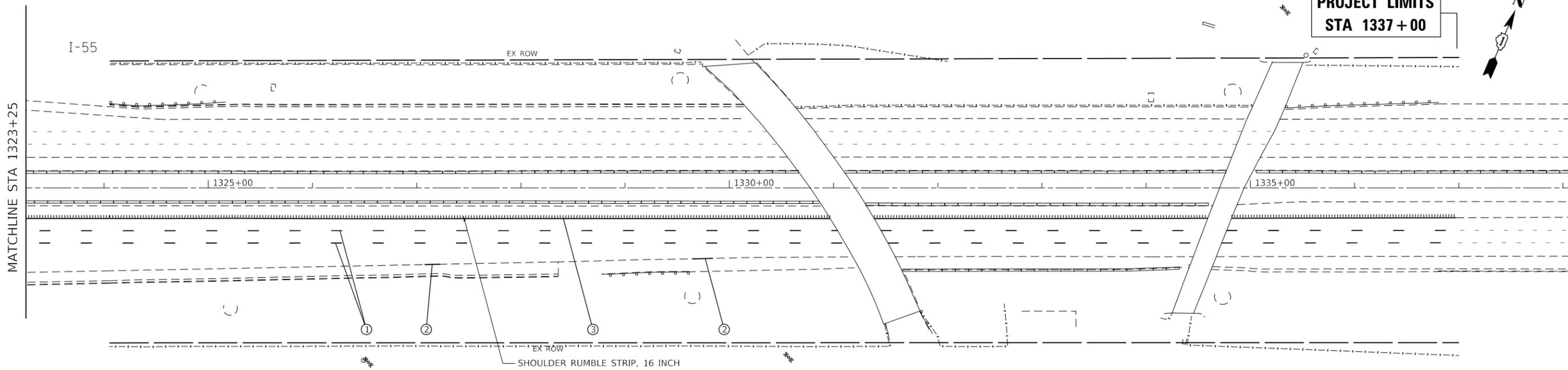
**PAVEMENT MARKING LEGEND**

- ① PREFORMED PLASTIC PAVEMENT MARKING TYPE D INLAID, WHITE, 5" DASHED, 10' DASH 30' SKIP
- ② MODIFIED URETHANE PAVEMENT MARKING, WHITE, 4" SOLID
- ③ MODIFIED URETHANE PAVEMENT MARKING, YELLOW, 4" SOLID
- ④ MODIFIED URETHANE PAVEMENT MARKING, WHITE, 8" SOLID
- ⑤ MODIFIED URETHANE PAVEMENT MARKING, WHITE, 12" SOLID

**NOTES:**

ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-12  
ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-12

**PROJECT LIMITS**  
**STA 1337+00**



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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**LOCATION 2: I-55**  
**DRAINAGE IMPROVEMENT (SOUTH SECTION)**  
**PROPOSED PAVEMENT MARKING PLAN**

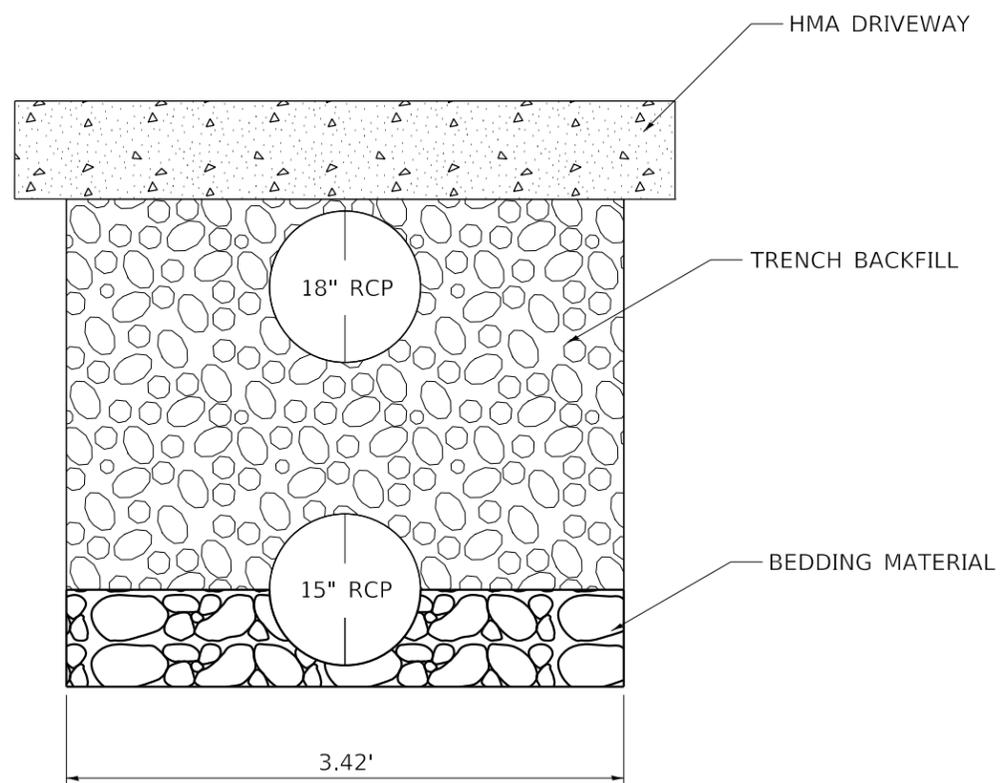
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-107-T	DUPAGE/COOK	30	14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H40	

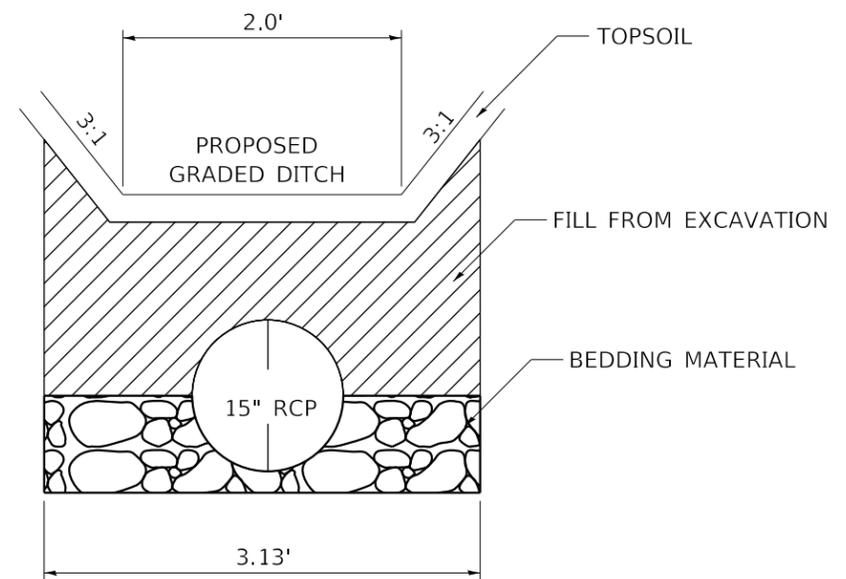




**TYPICAL DRIVEWAY CROSS SECTION**



**TYPICAL DITCH CROSS SECTION**



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PLOT DATE = 12/20/2019	DATE - 12/20/2019	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LOCATION 4: 131ST STREET AT 88TH AVENUE  
 DRAINAGE IMPROVEMENT (SOUTH SECTION)**

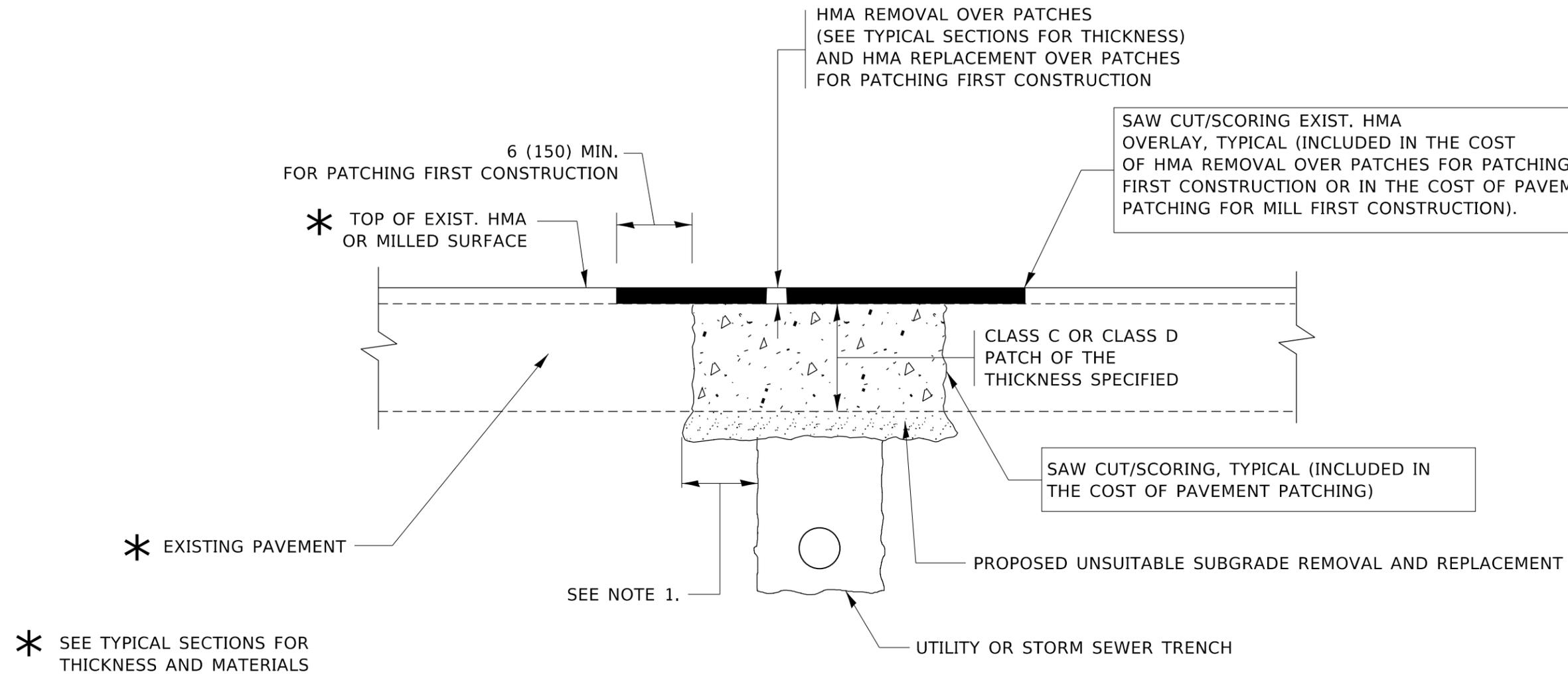
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-107-T	DUPAGE/COOK	30	17
CONTRACT NO. 62H40				
ILLINOIS		FED. AID PROJECT		









**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

**SEQUENCE OF CONSTRUCTION (PATCHING FIRST)**

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

**SEQUENCE OF CONSTRUCTION (MILLING FIRST)**

1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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	DRAWN -	REVISED - R. BORO 01-01-07
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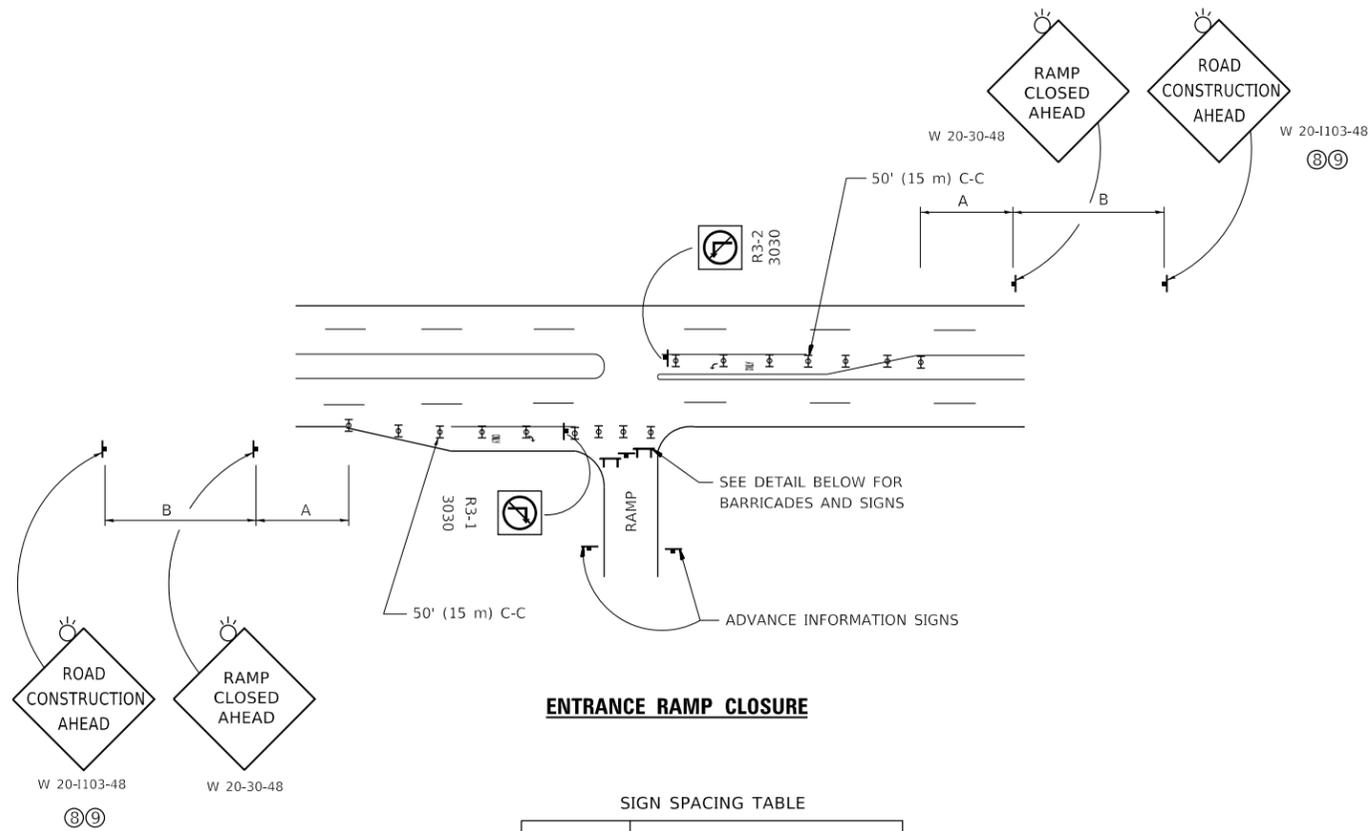
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR  
HMA SURFACED PAVEMENT**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-107-T	DUPAGE/COOK	30	21
BD400-04 (BD-22)			CONTRACT NO. 62H40	
ILLINOIS FED. AID PROJECT				



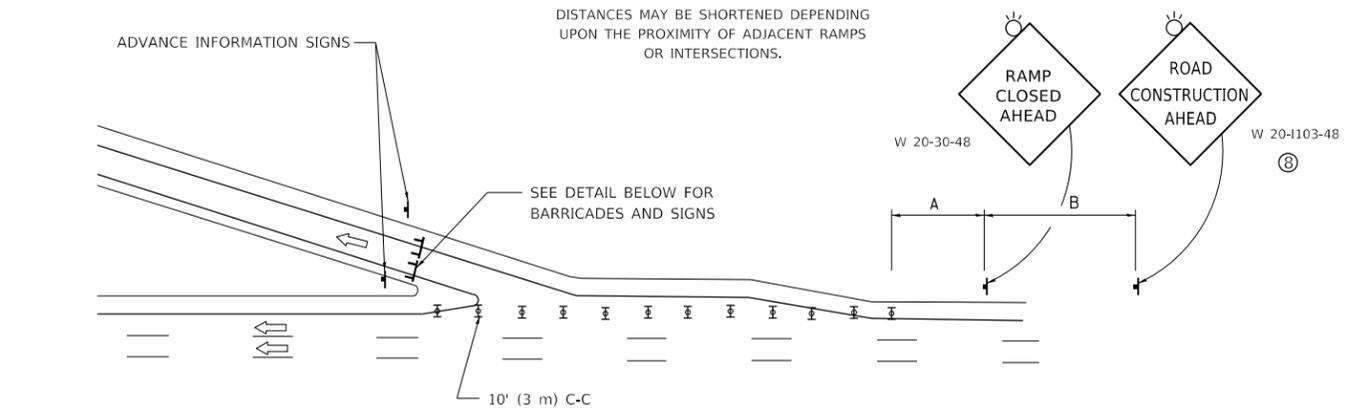


**ENTRANCE RAMP CLOSURE**

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

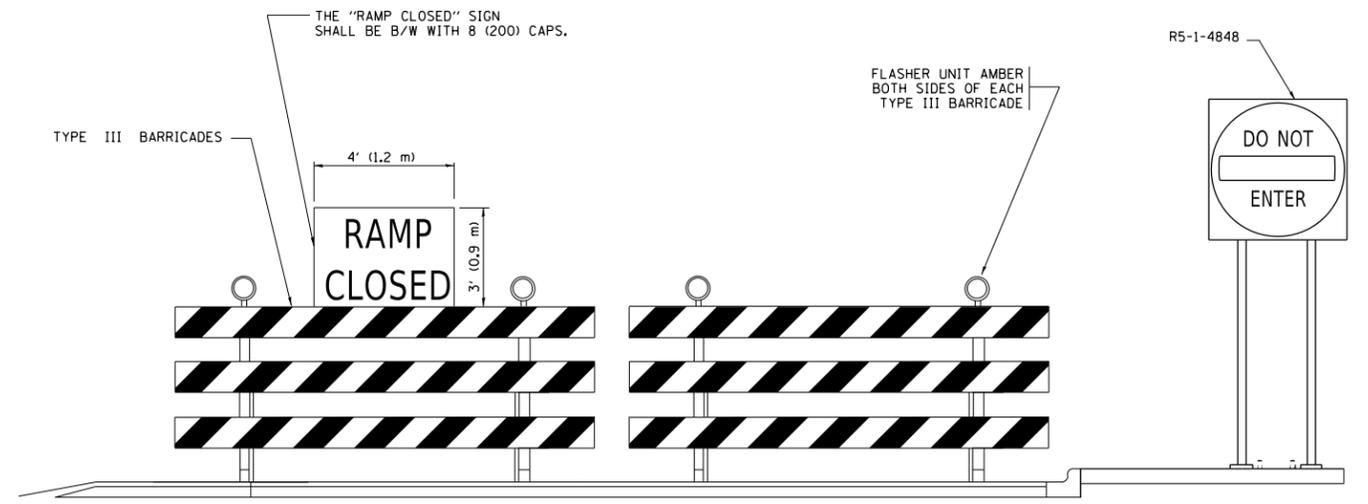
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



**EXIT RAMP CLOSURE**

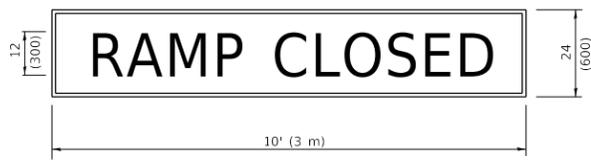
**SYMBOLS**

- ☐ TYPE II BARRICADE OR DRUM
- ☐ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



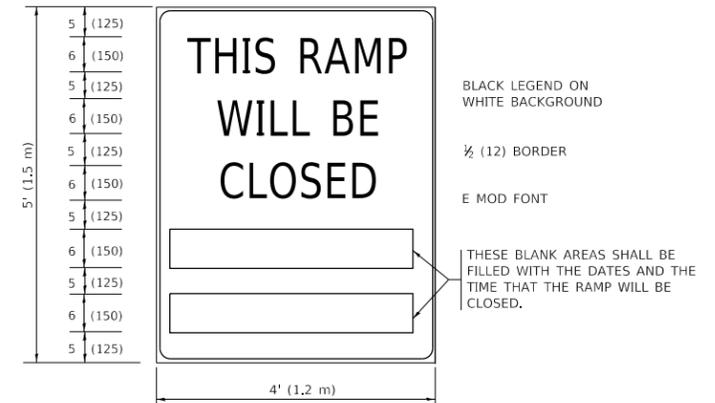
**DETAIL FOR REQUIRED BARRICADES & SIGNS**

**RAMP CLOSURE ADVANCE WARNING SIGN**



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY  
E MOD FONT  
1 (25) BORDER  
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

**RAMP CLOSURE ADVANCE INFORMATION SIGN**



BLACK LEGEND ON WHITE BACKGROUND  
1/2 (12) BORDER  
E MOD FONT  
THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.  
THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

**GENERAL NOTES:**

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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DRAWN -	REVISED - S.P.B._12-09	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - M.D._06-13
PLOT DATE = 12/20/2019	DATE - 02-83	REVISED - M.D._01-18

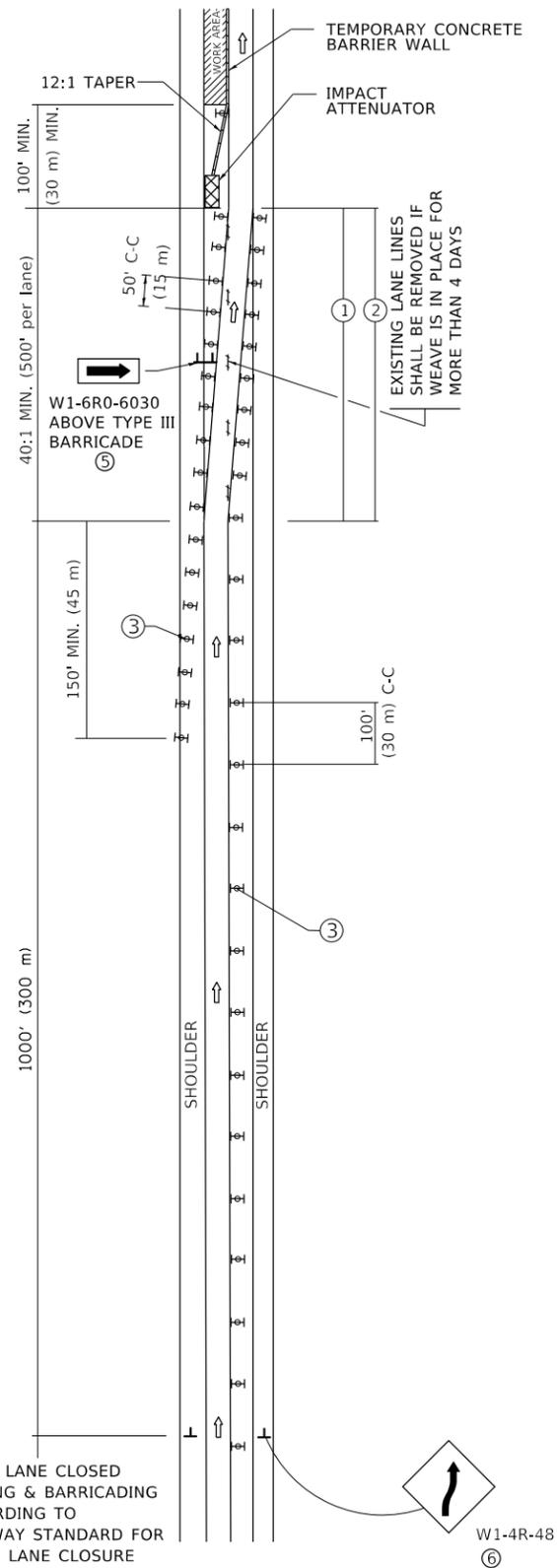
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE\_AND\_EXIT\_RAMP  
CLOSURE\_DETAILS**

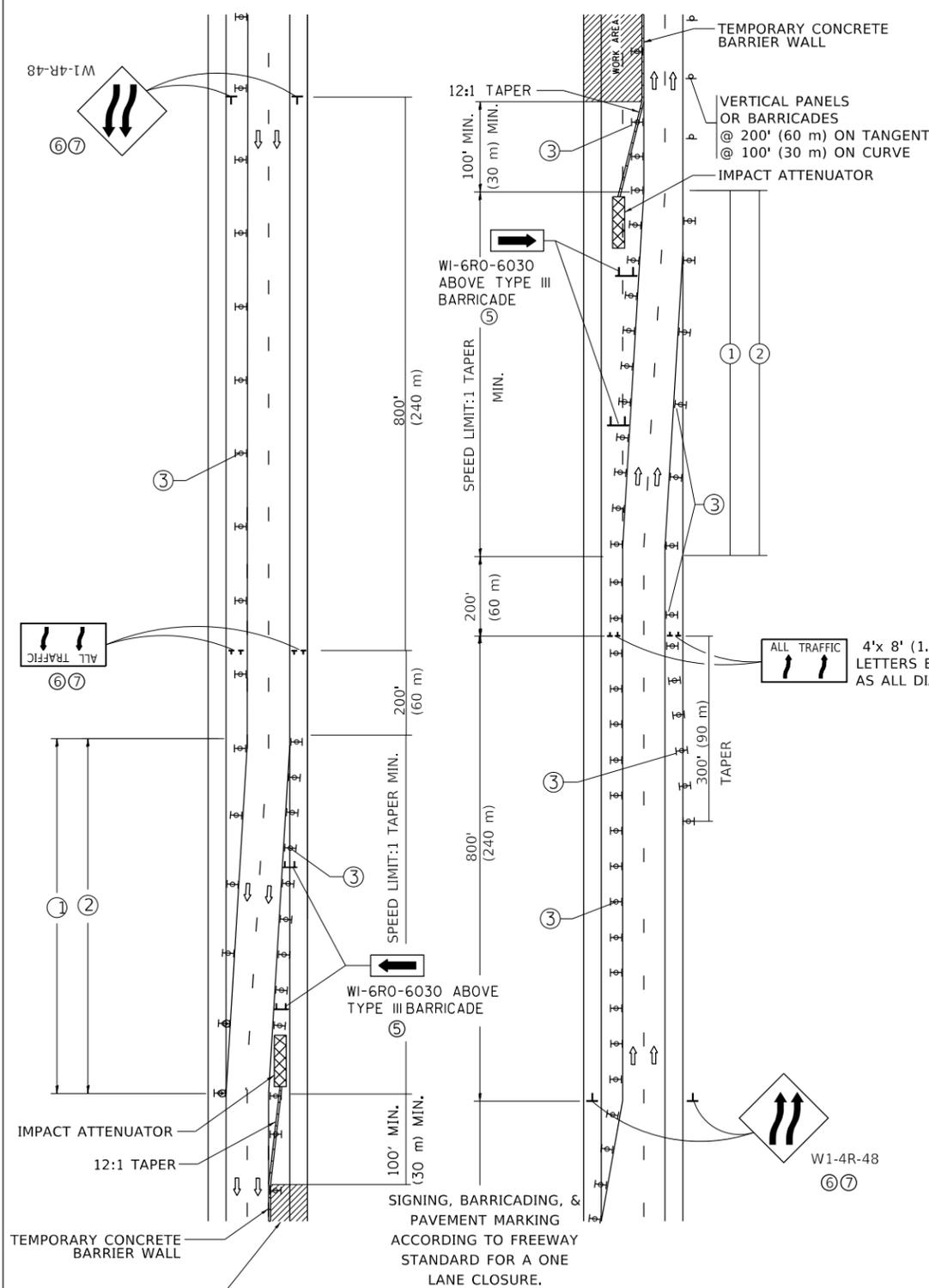
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-107-T	DUPAGE/COOK	30	23
<b>TC-08</b>			CONTRACT NO. 62H40	
ILLINOIS		FED. AID PROJECT		

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



### GENERAL NOTES:

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

### SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48 (6)
- W24-1-48 (7)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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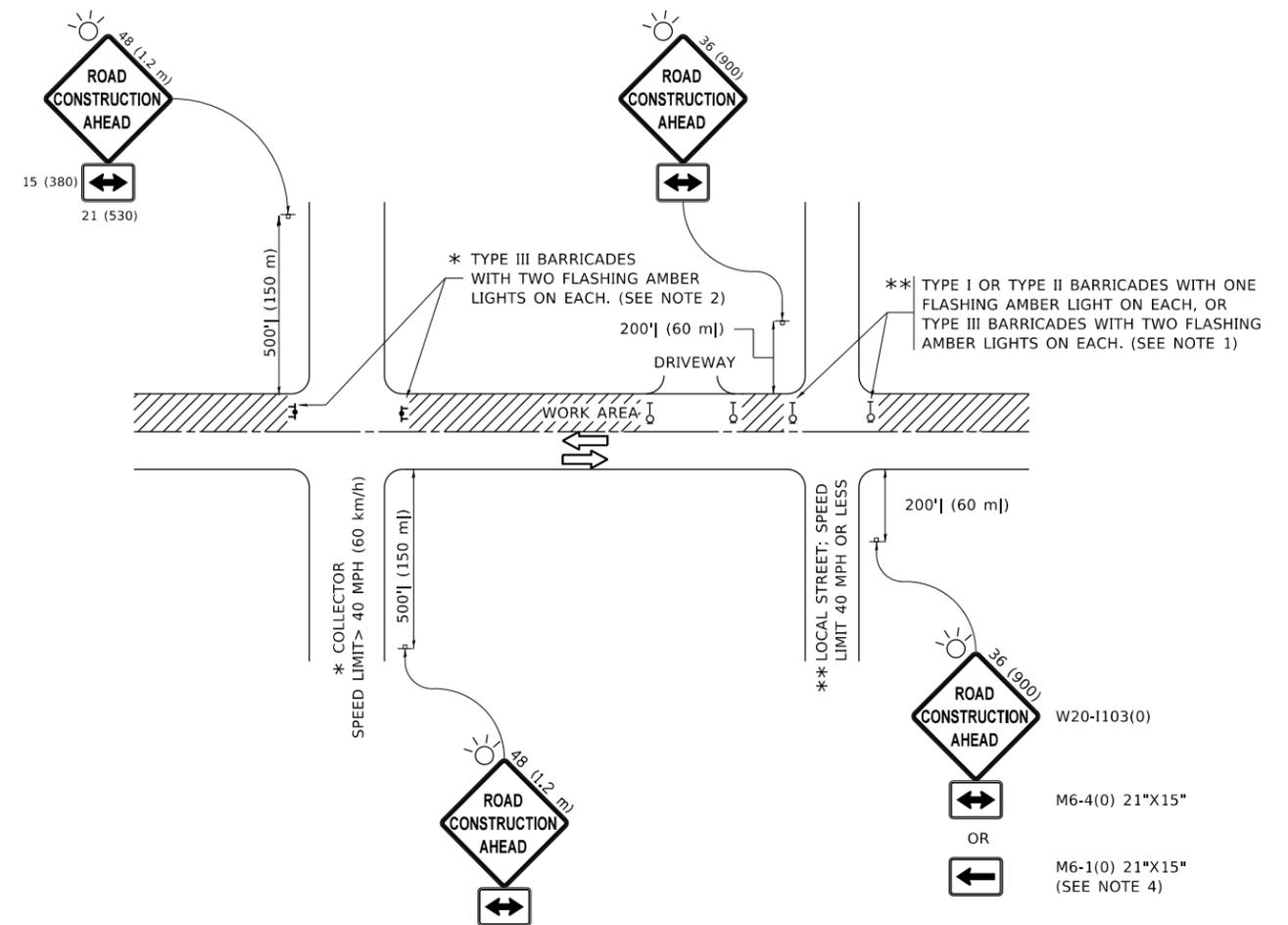
USER NAME = rostkawski	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06
	DRAWN -	REVISED - S.P.B. 01-07
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - S.P.B. 12-09
PLOT DATE = 12/20/2019	DATE - 02-87	REVISED - M.D. 06-13

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR  
FREEWAY SINGLE & MULTI-LANE WEAVE

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-107-T	DUPAGE/COOK	30	24
TC-09		CONTRACT NO. 62H40		
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
PLOT DATE = 12/20/2019	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

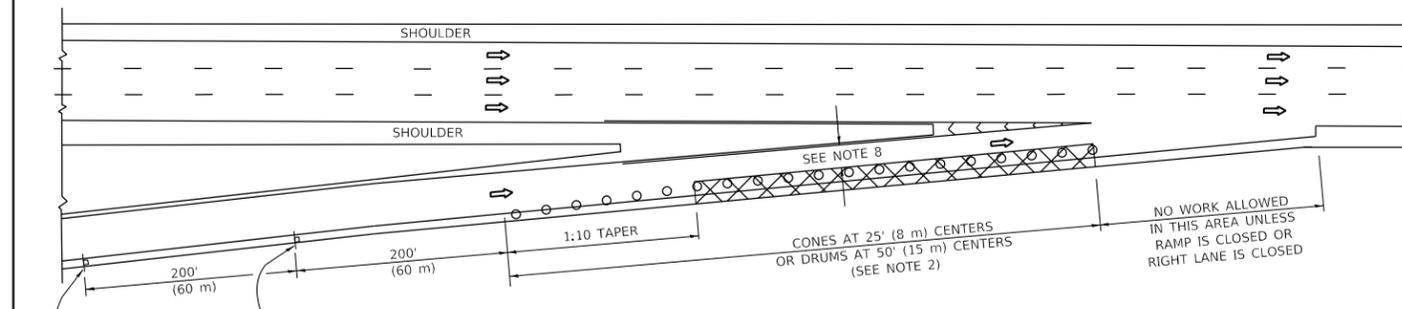
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VAR	2018-107-T	DUPAGE/COOK	30	25
<b>TC-10</b>			CONTRACT NO. 62H40	
ILLINOIS FED. AID PROJECT				



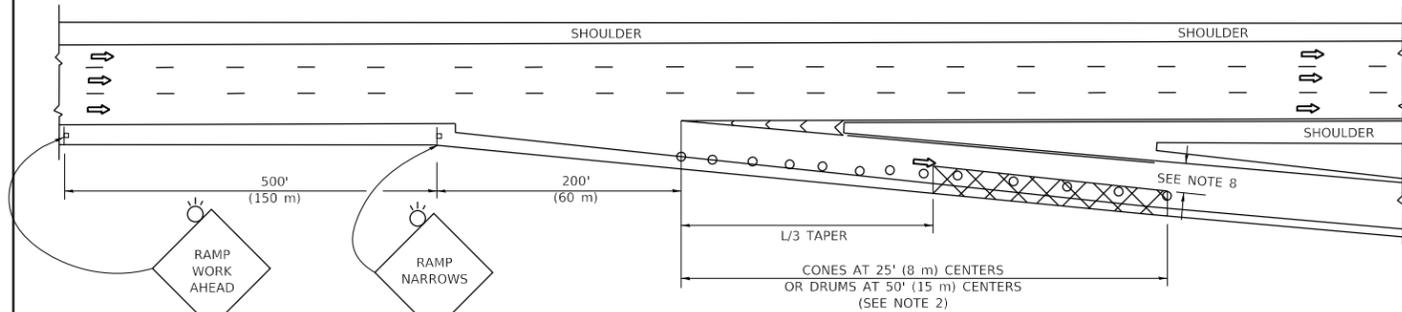


**PARTIAL RAMP CLOSURE DETAILS**

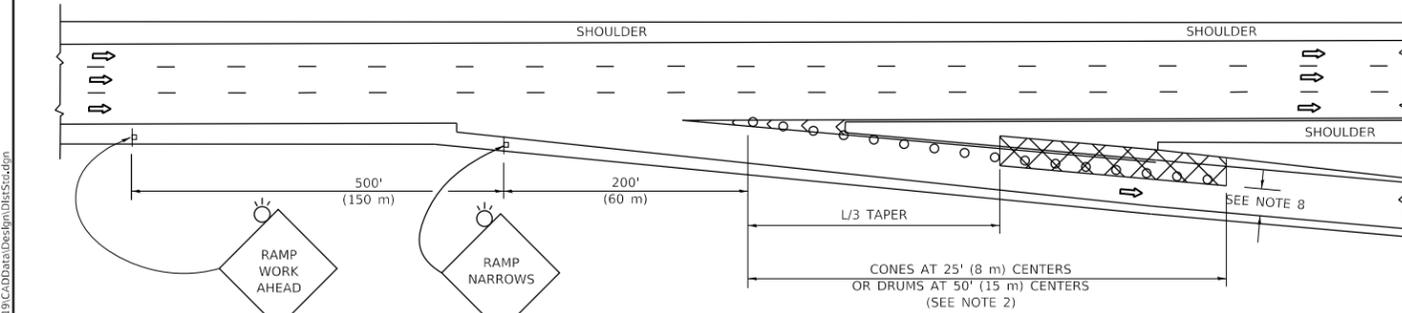
**SHOULDER CLOSURE DETAILS**



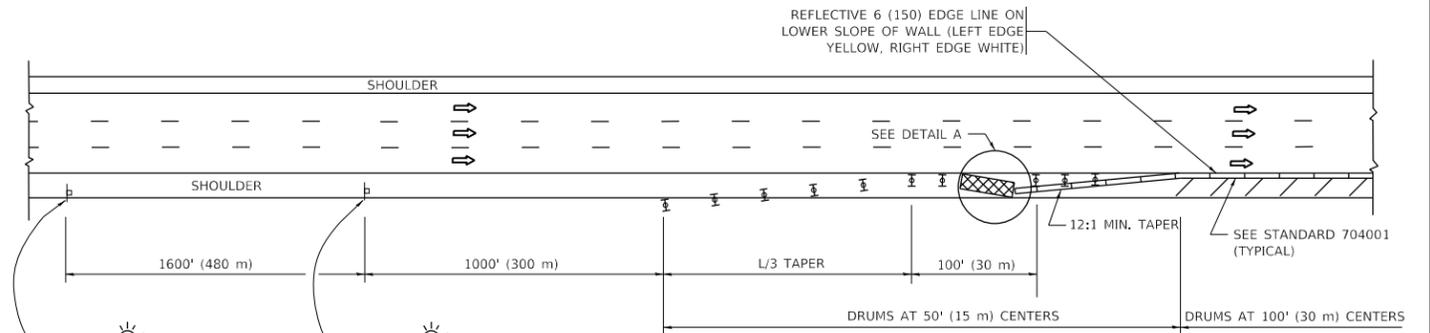
**TYPICAL ENTRANCE RAMP**



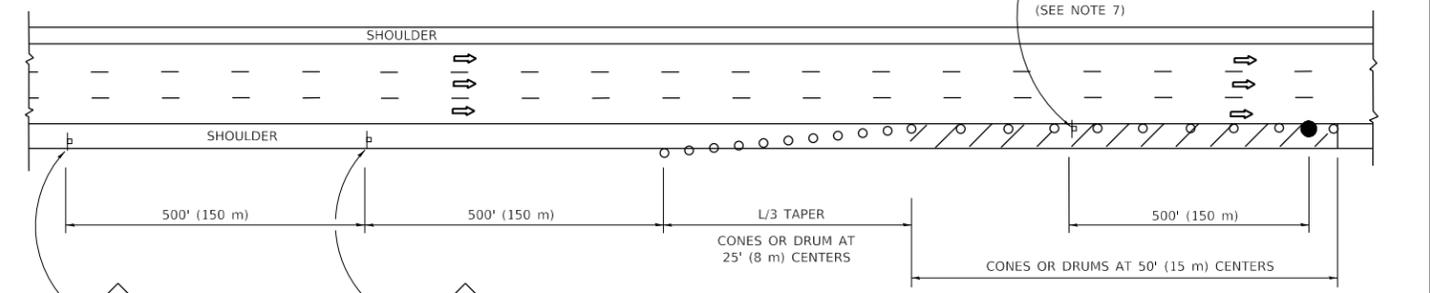
**TYPICAL EXIT RAMP**



**TYPICAL EXIT RAMP**



**PERMANENT SHOULDER CLOSURE**



**DAYTIME SHOULDER CLOSURE**

THIS DETAIL IS USED WHERE:  
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350/MASH COMPLIANT.

**DETAIL "A"  
 IMPACT ATTENUATOR, TEMPORARY  
 (SEE NOTE 5)**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

**SYMBOLS**

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

**GENERAL NOTES:**

1. THE "L" DISTANCE EQUALS:  

SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L=0.65(WXS)$ $L=(W)XS$
	W = WIDTH OF OFFSET IN FEET (METERS)
	S = NORMAL POSTED SPEED MPH (KM/H)
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK AVTTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION  
 16' MIN. WIDTH CURVE SECTION.

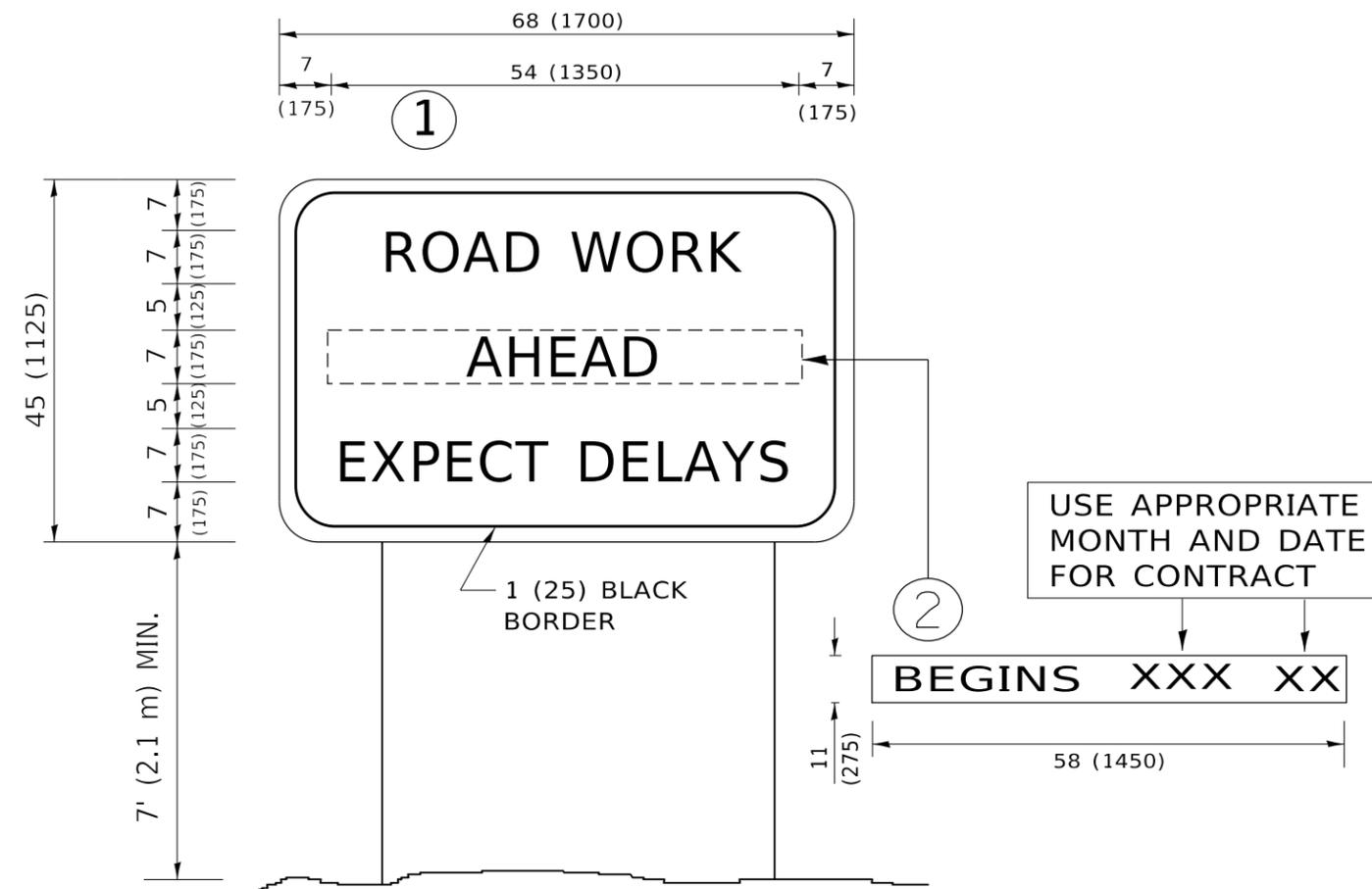
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USER NAME = rostkowskir	DESIGNED -	REVISED - S.P.B. 01-07
	DRAWN - D.W.S.	REVISED - S.P.B. 12-09
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - M.D. 06-13
PLOT DATE = 12/20/2019	DATE - 11-96	REVISED - M.D. 01-18

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TRAFFIC CONTROL DETAILS FOR FREEWAY          SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-107-T	DUPAGE/COOK	30	28
<b>TC-17</b>		CONTRACT NO. 62H40		
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 12/20/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-107-T	DUPAGE/COOK	30	29
<b>TC-22</b>			CONTRACT NO. 62H40	
		ILLINOIS	FED. AID PROJECT	

# BLANK SHEET

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																						
VAR	2018-107-T	DUPAGE/COOK	30	30																						
CONTRACT NO. 62H40																										
ILLINOIS FED. AID PROJECT																										