

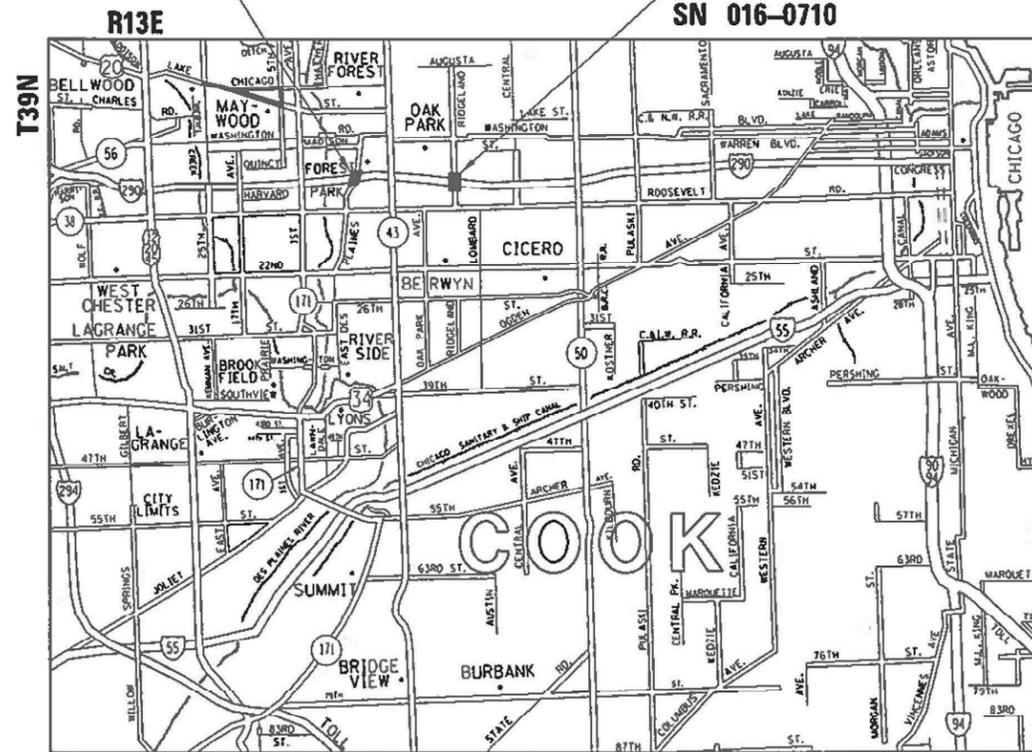
# PROPOSED HIGHWAY PLANS

## FAI ROUTE 290 (I-290) EISENHOWER EXPRESSWAY AT DES PLAINES AVENUE AND RIDGELAND AVENUE SECTION: 2020-233-BR BRIDGE REPAIR COOK COUNTY

C-91-040-21

DES PLAINES AVENUE OVER I-290  
SN 016-0706

RIDGELAND AVENUE OVER I-290  
SN 016-0710



**LOCATION MAP**  
(NOT TO SCALE)

GROSS LENGTH = 575 FT. = 0.11 MILES  
NET LENGTH = 575 FT. = 0.11 MILES

FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	1
		ILLINOIS	CONTRACT NO. 62N03	

D-91-039-21



SE3, LLC  
PHILIP J. MINGA, P.E.  
DATE: 02/01/2021  
SIGNATURE AND SEAL APPLIES TO DRAWING(S): 1-5, 8-11, 13, 27-40  
EXPIRES: 11-30-2021

BAXTER & WOODMAN  
JAMES F. McNALLY, P.E.  
DATE: 02/01/2021  
SIGNATURE AND SEAL APPLIES TO DRAWING(S): 6-7, 12  
EXPIRES: 11-30-2021

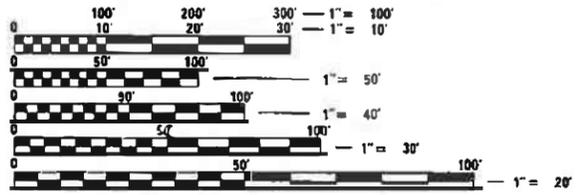
BAXTER & WOODMAN  
BRANDON L. BUZZELL, P.E., S.E.  
DATE: 02/01/2021  
SIGNATURE AND SEAL APPLIES TO DRAWING(S): 14-18  
EXPIRES: 11-30-2022

BLA, INC.  
JOEL R. IHDE, P.E., S.E.  
DATE: 02/01/2021  
SIGNATURE AND SEAL APPLIES TO DRAWING(S): 19-26  
EXPIRES: 11-30-2022

**THIS IMPROVEMENT IS LOCATED WITHIN FOREST PARK AND OAK PARK.**

**DESIGN DESIGNATION (TRAFFIC DATA) - POSTED SPEED**

- FAI-290 - INTERSTATE (193,300) - 55 MPH
- RIDGELAND AVE - MAJOR COLLECTOR (9,100) - 30 MPH
- DES PLAINES AVE - MAJOR COLLECTOR (18,700) - 30 MPH



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 EXCAVATORS  
1-800-892-0123 OR 811

PROJECT MANAGER: J. ALAIN MIDY, PE (847) 221-3056  
PROJECT ENGINEER: PRAVEEN KAINI, PE (847) 705-4237  
CONTRACT NO. 62N03



BAXTER WOODMAN

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
SUBMITTED January 28, 2021  
Jon Pias/OAB REGIONAL ENGINEER  
January 29, 2021  
SEA/ERK ENGINEER OF DESIGN AND ENVIRONMENT  
January 29, 2021  
James J. ... DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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**INDEX OF SHEETS**

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 14-18 S.N. 016-0706 DES PLAINES AVE BRIDGE  
 19-26 S.N. 016-0710 RIDGELAND AVE BRIDGE  
 27-40 DISTRICT ONE DETAILS

**HIGHWAY STANDARDS**

STD NO.	TITLE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701400-10	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSEWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701446-11	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

**GENERAL NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTING AND MAINTAINING AN ELECTRONIC LOG OF ALL STAKEOUT SURVEY THAT IS PERFORMED ON THE JOB. EITHER BY HIM/HER OR ANY SUB-CONTRACTOR PERFORMING THE STAKEOUT. UPON REQUEST, ALL LOGS SHALL BE SUBMITTED TO THE DEPARTMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK BUT SHALL BE CONSIDERED INCLUDED IN THE COST FOR CONSTRUCTION LAYOUT.
2. ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE LATEST EDITION.
4. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.
5. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP, AND SHOULDER CLOSURES AND 7 DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS NOR HOLIDAYS.
6. TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT BOTH THE ARTERIAL TRAFFIC FIELD ENGINEER, ERIC CAMPOS AT ERIC.CAMPOS@ILLINOIS.GOV, AND THE EXPRESSWAY TRAFFIC FIELD ENGINEER AT (847) 705-4604.
7. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
8. THE CONTRACTOR AND THE RESIDENT ENGINEER SHALL CONTACT THE VILLAGE OF FOREST PARK PUBLIC WORKS DIRECTOR (JOHN DOSS 708-323-9136 OR JDOSS@FORESTPARK.NET) AT LEAST ONE (1) WEEK PRIOR TO THE PLACEMENT OF ANY TRAFFIC CONTROL DEVICES.
9. CONTRACTOR SHALL OBTAIN A NO COST VILLAGE OF OAK PARK PERMIT# 202100097 FOR THE INSTALLATION OF THE DETOUR FOR RIDGELAND AVE CLOSURE. CONTRACTOR SHALL REGISTER AS A LICSENCED CONTRACTOR WITH THE VILLAGE & PAY REGISTRATION FEE REGISTRATION IS DONE ONLINE AT [HTTPS://VILLAGEVIEWOAK-PARK.US/CITYVIEWPORTAL](https://villageviewoak-park.us/cityviewportal)
10. RIDGELAND AVENUE WORK SHALL OCCUR BETWEEN JUNE 14, 2021, AND AUGUST 20, 2021.
11. TWO WEEKS PRIOR TO STARTING WORK ON RIDGELAND AVENUE THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF OAK PARKS VILLAGE ENGINEER BILL MCKENNA AT MCKENNA@OAK-PARK.US

**COMMITMENTS:**

NONE

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS,  
 GENERAL NOTES, AND COMMITMENTS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	2
CONTRACT NO. 62N03			ILLINOIS FED. AID PROJECT	

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SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
					BRIDGE	BRIDGE
					0047	0047
					100% STATE	100% STATE
				URBAN	DES PLAINES AVE SN 016-0706	RIDGELAND AVENUE SN 016-0710
	50102400	CONCRETE REMOVAL	CU YD	1.0	1.0	
	50157300	PROTECTIVE SHIELD	SQ YD	16	16	
	52000000	PREFORMED JOINT SEAL 1/2"	FOOT	65		65
	52000005	PREFORMED JOINT SEAL 1"	FOOT	162	162	
	52000025	PREFORMED JOINT SEAL 2"	FOOT	65		65
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	6	6
	67100100	MOBILIZATION	L SUM	1	0.5	0.5
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	75		75
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	40	20	20
	70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SQ FT	260	186	74
	70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	5797	2040	3757
	70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	31		31
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	338		338
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	338		338
	70600241	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2		2
	70600341	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2		2
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	83		83
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	316		316
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	219		219
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	47		47
*	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	83	37	46
*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	923	280	643
*	78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	165	141	24
*	78100300	REPLACEMENT REFLECTOR	EACH	37	10	27
*	78200011	BARRIER WALL REFLECTORS - TYPE C	EACH	216		216
	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2		2
*	X0320087	DEBRIS SCREEN	SQ YD	426		426
*	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	939	187	752

**\* SPECIALTY ITEM**



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	3
CONTRACT NO. 62N03				
ILLINOIS FED. AID PROJECT				

REV-SEP



## MAINTENANCE OF TRAFFIC GENERAL NOTES

1. TRAFFIC CONDITIONS, CRASHES, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. COMPLIANCE WITH THIS REQUIREMENT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE OF THE MAINTENANCE OF TRAFFIC ITEM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
2. THE MAINTENANCE OF TRAFFIC PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. THE CONTRACTOR MAY MODIFY THE MAINTENANCE OF TRAFFIC PLANS TO MEET CONSTRUCTION NEEDS, BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. THE ENGINEER SHALL BE INFORMED IN WRITING A MINIMUM OF 48 HOURS IN ADVANCE OF ANY CHANGE TO THE MAINTENANCE OF TRAFFIC PLANS. CONTACT THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT 847-705-4151. REFER TO THE "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC" SPECIAL PROVISION FOR LANE CLOSURE AND STAGE REQUIREMENTS.
3. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING EXISTING PAVEMENT MARKINGS PER STAGE AS NEEDED. THIS REMOVAL OF PAVEMENT MARKINGS ON EXISTING PAVEMENT WILL BE PAID FOR AS "PAVEMENT MARKING - WATER BLASTING" (X0327980).
4. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY PAVEMENT MARKINGS THAT CONFLICT WITH THE STAGING. REMOVAL OF PAVEMENT MARKING TAPE WILL BE PAID FOR AS "TEMPORARY PAVEMENT MARKING REMOVAL" (X7030005).
5. ALL SIGN ASSEMBLIES SHALL BE CERTIFIED BY THE CONTRACTOR AS MEETING THE APPLICABLE REQUIREMENTS OF NCHRP REPORT 350, TEST LEVEL 3 AND SHALL BE APPROVED BY THE ENGINEER.
6. THE CONTRACTOR SHALL REMOVE OR COVER ALL EXISTING SIGNS THAT CONFLICT WITH OR DO NOT APPLY TO THE REVISED TRAFFIC PATTERNS AND SHALL RESTORE THE SIGNS AT THE END OF CONSTRUCTION AS DIRECTED BY THE ENGINEER. COMPLIANCE WITH THIS REQUIREMENT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE OF THE MAINTENANCE OF TRAFFIC ITEM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
7. THE CONTRACTOR SHALL PROVIDE 48 HOURS ADVANCE NOTICE TO THE ENGINEER OF ANY CONSTRUCTION WORK THAT MAY IMPACT ANY ROADWAY LIGHTING.
8. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ANY EXISTING SIGNS REMOVED, BUT NOT RELOCATED, FROM THE PROJECT. THE CONTRACTOR SHALL PROPERLY STORE RELOCATED SIGNS AS APPROVED BY THE ENGINEER UNTIL THEY ARE PROPERLY RE-ERECTED.
9. CONFLICTING PAVEMENT MARKER REFLECTORS SHALL BE REMOVED PER STAGE AS NEEDED. EXISTING REFLECTORS THAT ARE DAMAGED SHALL ALSO BE REPLACED. THE REPLACEMENT OF THE REFLECTORS WILL BE PAID FOR AS REPLACEMENT REFLECTOR (70100300).
10. PLEASE ENSURE OUR FACILITY LOCATIONS ARE IDENTIFIED PRIOR TO PROCEEDING WITH ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING OUR FACILITIES FROM ALL CONSTRUCTION OPERATIONS, VIBRATIONS, AND HEAVY EQUIPMENT. IT IS REQUESTED THAT DURING CONSTRUCTION, EXTRA CAUTION BE TAKEN TO PROTECT THE SAFETY AND INTEGRITY OF OUR FACILITIES IN ORDER TO MAINTAIN SERVICE. NO ACCESS HATCHES AND MANHOLE COVERS ON MWRD STRUCTURES AND MANHOLES WITHIN THE PROJECT AREA SHALL BE BURIED OR COVERED; NO DEBRIS SHALL ENTER MWRD STRUCTURES, SEWERS, OR FACILITIES. MWRD PERSONNEL SHALL HAVE 24 HOUR-A-DAY UNRESTRICTED ACCESS TO ALL MWRD FACILITIES. FOR ANY QUESTIONS REGARDING ACCESS TO OUR FACILITY OR FIELD LOCATION, PLEASE CONTACT MR. STEVE WHITEHEAD, SENIOR CIVIL ENGINEER, AT (708) 588-4080. WE FURTHER REQUEST THAT MWRD MANHOLES BE LOCATED, PROTECTED, AND/OR ADJUSTED TO GRADE, IF NECESSARY. AUTHORIZATION MAY BE OBTAINED BY CONTACTING MR. CEDRIC ROBERTSON, MANAGING ENGINEER, AT (708) 751-3234.
11. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR FOR ARTERIALS AT KALPANA.HANNAN-HOSADURGA@ILLINOIS.GOV AND THE TRAFFIC CONTROL SUPERVISOR FOR EXPRESSWAYS AT CARLOS.MUNOZ@ILLINOIS.GOV A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE OF BEGINNING WORK.
12. EXPANSION JOINT REMOVAL AND REPLACEMENT WILL BE DONE OVER A WEEKEND, USING THE DETOUR PROVIDED. LONG TERM LANE CLOSURES AT DES PLAINES ARE ONLY ALLOWED UNDER A DETOUR ON THE WEEKEND
13. LANE AND RAMP CLOSURES ON I-290 SHALL BE ALLOWED ONLY DURING THE ALLOWABLE HOURS SPECIFIED IN THE KEEPING THE EXPRESSWAY OPEN TO TRAFFIC SPECIAL PROVISION.
14. THE FOLLOWING IS A LIST OF MAINTENANCE OF TRAFFIC ASSOCIATED PAY ITEMS, FOR WHICH NOMINAL OR ESTIMATED QUANTITIES HAVE BEEN PROVIDED. THE CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION FROM THE ENGINEER PRIOR TO USE AND PAYMENT FOR THESE ITEMS:
  - \* CHANGEABLE MESSAGE SIGN
  - \* PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS
  - \* PAVEMENT MARKING TAPE, TYPE IV 4"
  - \* PAVEMENT MARKING TAPE, TYPE IV 24"
  - \* TEMPORARY CONCRETE BARRIER
  - \* RELOCATE TEMPORARY CONCRETE BARRIER
  - \* IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 2
  - \* IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 2
  - \* BARRIER WALL REFLECTORS - TYPE C
  - \* TEMPORARY INFORMATION SIGNING

## PEDESTRIAN ACCESS

1. A MINIMUM OF ONE SIDEWALK SHALL REMAIN OPEN AT ALL TIMES ACROSS BRIDGES.
2. SIDEWALKS SHALL BE CLOSED ANY TIME CONSTRUCTION IS TAKING PLACE ON THE SIDEWALK, ADJACENT PARAPET, PARAPET FENCE, OR ADJACENT ROADWAY/BRIDGE LANE.
3. SIGNAGE FOUND ON IDOT HIGHWAY STANDARD 701801 SHALL BE UTILIZED TO CLOSE A SIDEWALK.

## PACE BUS COORDINATION

1. PACE REQUESTS THE CONTRACTOR AND RESIDENT ENGINEER COORDINATE WITH PACE THROUGHOUT THE PROJECT.
2. THE CONTRACTOR WILL NOTIFY THE RESIDENT ENGINEER AND PACE CONTACT PERSON AT LEAST TWO (2) WEEKS PRIOR TO THE RIDGELAND AVENUE MOT BEING IN PLACE, SO PACE CAN NOTIFY THE PUBLIC OF THE BUS STOP CLOSURES AND MAKE OTHER ARRANGEMENTS, AS NECESSARY.
3. THE CONTRACTOR WILL NOTIFY THE RESIDENT ENGINEER PACE CONTACT PERSON AT LEAST TWO (2) WEEKS PRIOR TO EACH OF THE WEEKEND CLOSURES OF RIDGELAND AVENUE AND DES PLAINES AVENUE, SO THE PUBLIC CAN BE NOTIFIED OF THE IMPACTS TO THE ROUTES.
4. THE PACE CONTACT PERSON IS RICK WILLMAN AT (847) 228-3584 (RICHARD.WILLMAN@PACEBUS.COM).

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

**MAINTENANCE OF TRAFFIC**  
**GENERAL NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	5
CONTRACT NO. 62N03				
ILLINOIS		FED. AID PROJECT		

**DES PLAINES AVENUE SUGGESTED MAINTENANCE OF TRAFFIC NOTES**

**PRE-STAGE**

**CONSTRUCTION:**

PRE-STAGE INCLUDES INSTALLATION OF TEMPORARY PROTECTIVE SHIELD.

**TRAFFIC:**

USE ONLY NIGHTTIME LANE CLOSURES ON I-290 RAMP & MAINLINE.

APPLICABLE DISTRICT ONE DETAILS AND IDOT HIGHWAY STANDARD DRAWINGS:

- TC-9 TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
- TC-17 TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
- 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 ≥ 45 MPH
- 701428-01 TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
- 701446-10 TWO LANE CLOSURE, FREEWAY/EXPRESSWAY

**STAGE 1 – DETOUR**

**CONSTRUCTION:**

COMPLETE BRIDGE REPAIRS

**TRAFFIC:**

DES PLAINES AVENUE WILL BE CLOSED AT THE STRUCTURE OVER I-290. TRAFFIC WILL FOLLOW THE WEEKEND DETOUR SHOWN ON THE DETOUR PLAN (SEE NOTE 1). ACCESS WILL BE PROVIDED FOR THE FOREST PARK CTA STATION.

INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MOT PLANS AND APPLICABLE DISTRICT ONE DETAILS AND IDOT HIGHWAY STANDARD DRAWINGS:

- TC-16 SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
- TC-21 DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
- TC-22 ARTERIAL ROAD INFORMATION SIGN
- TC-26 DRIVEWAY ENTRANCE SIGNING
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATION - DAY ONLY
- 701901-08 TRAFFIC CONTROL DEVICES

**STAGE 2 – POST DETOUR**

**CONSTRUCTION:**

REPLACE PAVEMENT MARKINGS ON THE BRIDGE DECK

**TRAFFIC:**

SHORT TERM LANE CLOSURES PERMITTED ONLY

INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MOT PLANS AND APPLICABLE DISTRICT ONE DETAILS AND IDOT HIGHWAY STANDARD DRAWINGS:

- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATION - DAY ONLY
- 701901-08 TRAFFIC CONTROL DEVICES

**NOTE 1**

1. DES PLAINES AVENUE DETOUR SHALL NOT OCCUR ON THE SAME WEEKEND AS THE RIDGELAND AVENUE DETOUR INCLUDED IN THIS CONTRACT.

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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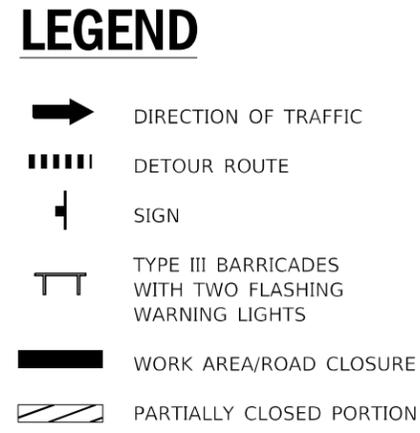
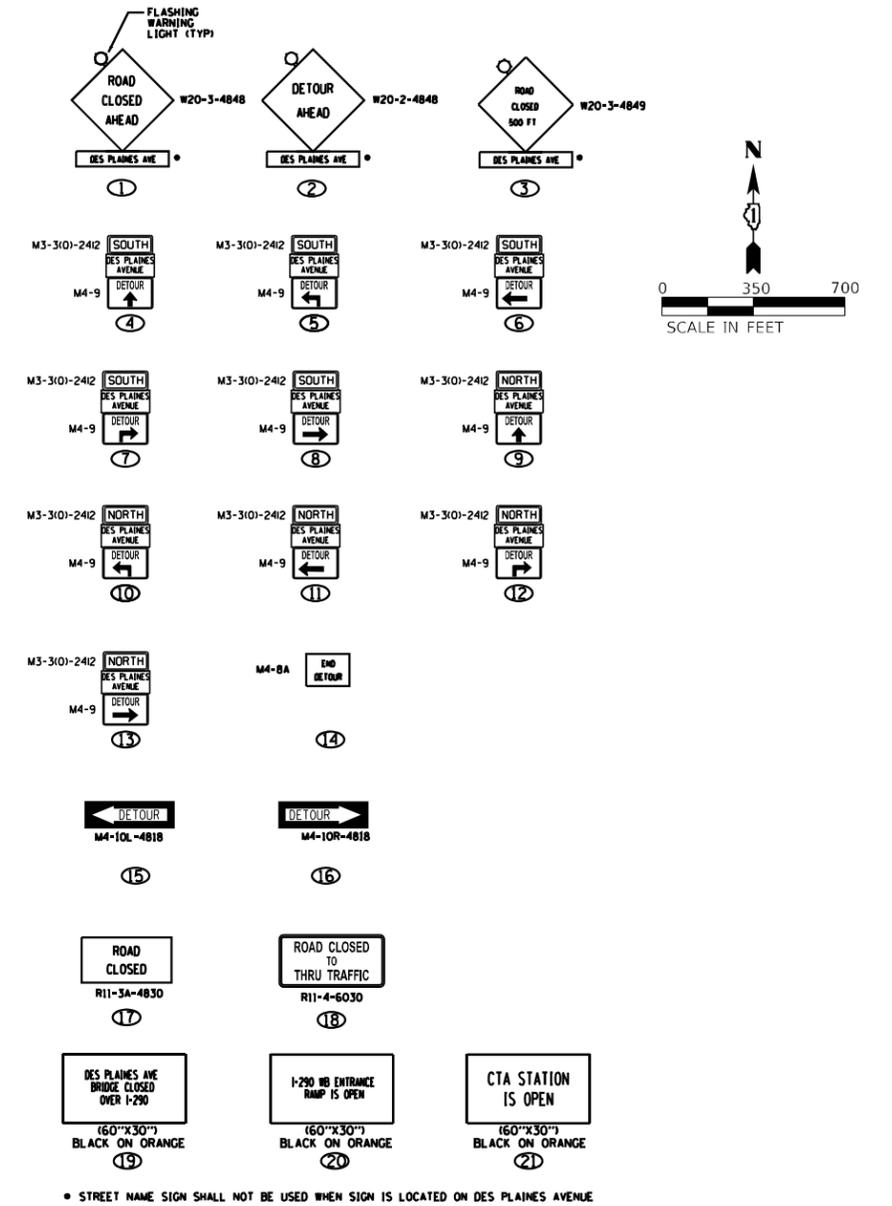
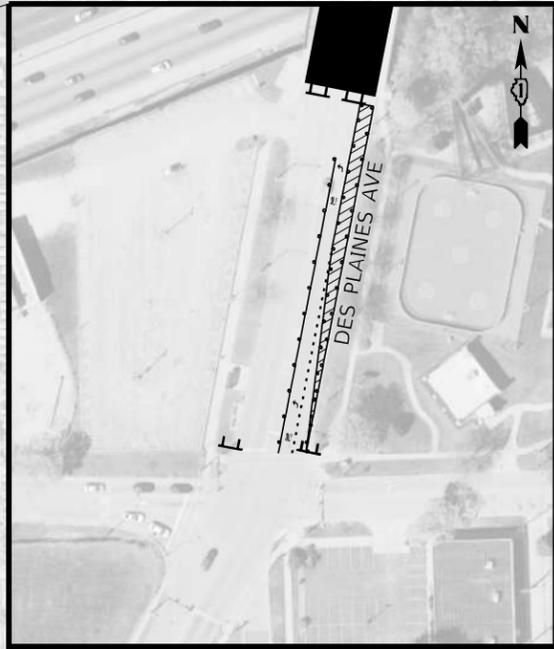
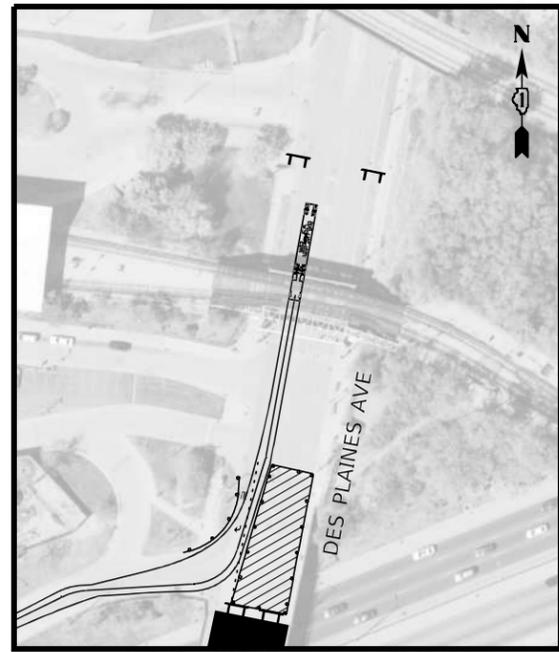
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DEPARTMENT OF TRANSPORTATION

**MAINTENANCE OF TRAFFIC - DES PLAINES AVENUE**  
**STAGING DESCRIPTION**

SCALE: 1" = 10' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	6
CONTRACT NO. 62N03				
ILLINOIS FED. AID PROJECT BRIDGE REPAIR				

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**BAXTER & WOODMAN**  
Consulting Engineers

USER NAME = 771JK	DESIGNED -	REVISED -
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PLOT DATE = 2/2/2021	CHECKED -	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**MAINTENANCE OF TRAFFIC - DETOUR**  
**DES PLAINES AVENUE**

SCALE: 1" = 300' SHEET 14 OF 14 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	7
CONTRACT NO. 62N03				
ILLINOIS FED. AID PROJECT BRIDGE REPAIR				

# MAINTENANCE OF TRAFFIC STAGING DESCRIPTION

## PRE-STAGE

### CONSTRUCTION:

PRE-STAGE INCLUDES INSTALLATION OF TEMPORARY PROTECTIVE SHIELD.

### TRAFFIC:

USE ONLY NIGHTTIME LANE CLOSURES ON I-290.

APPLICABLE DISTRICT ONE DETAILS AND IDOT HIGHWAY STANDARD DRAWINGS:

- TC-8 ENTRANCE AND EXIT RAMP CLOSURE DETAILS
- TC-9 TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
- TC-17 TRAFFIC CONTROL FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
- TC-25 TRAFFIC CONTROL DETAILS FOR FREEWAY CENTER LANE CLOSURE SHOULDER LANE
- 701400-10 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-12 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
- 701428-01 TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
- 701446-11 TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701901-08 TRAFFIC CONTROL DEVICES

## STAGE 1

### CONSTRUCTION:

REPAIRS ON THE SOUTHBOUND HALF THE BRIDGE.

### TRAFFIC:

TRAFFIC ONE LANE IN EACH DIRECTION AND SHIFTED ONTO THE NORTHBOUND HALF OF THE BRIDGE.

INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE APPLICABLE DETAILS, STANDARDS, AND PLANS.

APPLICABLE DISTRICT ONE DETAILS AND IDOT HIGHWAY STANDARD DRAWINGS:

- TC-10 TRAFFIC CONTROL PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-14 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
- TC-16 SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
- TC-22 ARTERIAL ROAD INFORMATION SIGN
- TC-26 DRIVEWAY ENTRANCE SIGNING
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701321-18 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER

## STAGE 2

### CONSTRUCTION:

REPAIRS ON THE NORTHBOUND HALF THE BRIDGE.

### TRAFFIC:

TRAFFIC ONE LANE IN EACH DIRECTION AND SHIFTED ONTO THE SOUTHBOUND HALF OF THE BRIDGE.

INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE APPLICABLE DETAILS AND STANDARDS.

APPLICABLE DISTRICT ONE DETAILS AND IDOT HIGHWAY STANDARD DRAWINGS:

- TC-10 TRAFFIC CONTROL PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-14 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
- TC-16 SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
- TC-22 ARTERIAL ROAD INFORMATION SIGN
- TC-26 DRIVEWAY ENTRANCE SIGNING
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701321-18 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER

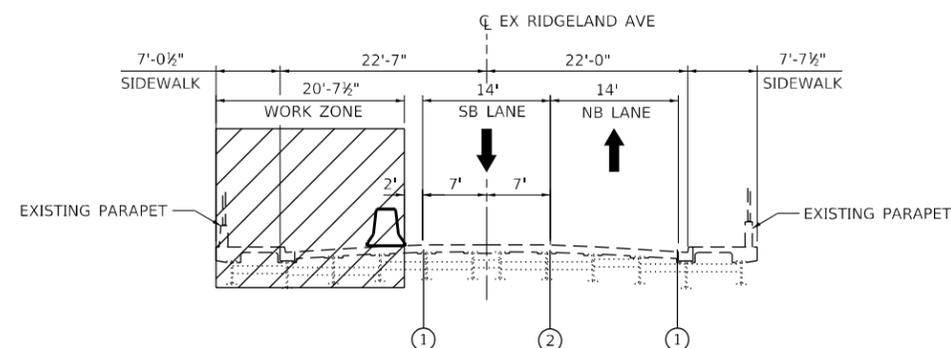
## STAGE 3 - DETOUR

### CONSTRUCTION:

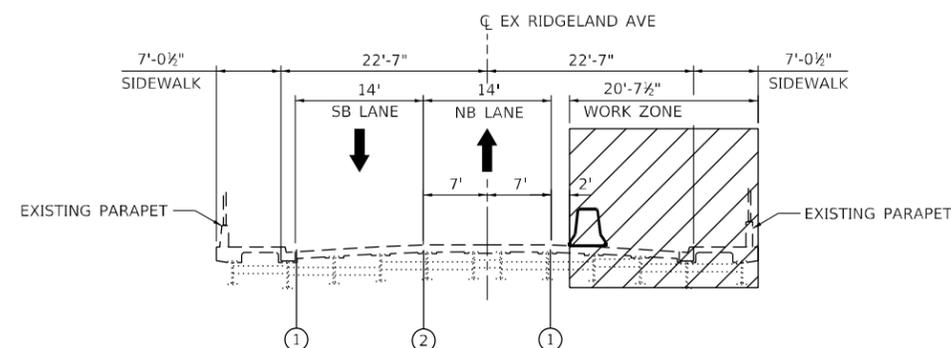
REPAIRS ON THE EXPANSION JOINTS ACROSS THE BRIDGE.

### TRAFFIC:

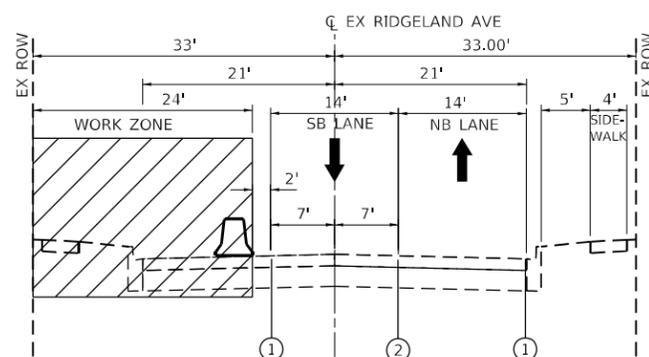
FOR WEEKEND OPERATIONS, CLOSE THE BRIDGE USING THE DETOUR PLAN



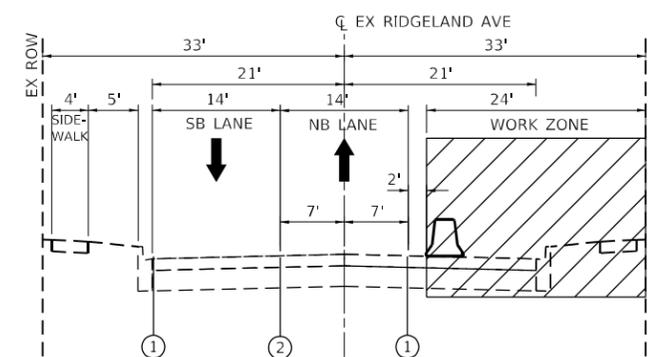
**STAGE 1**  
STA XX+XX TO STA XX+XX



**STAGE 2**  
STA XX+XX TO STA XX+XX



**STAGE 1**  
STA 11+86 TO STA 15+30



**STAGE 2**  
STA 11+86 TO STA 15+30

### LEGEND:

- EXISTING PAVEMENT
- WORK AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER (70400100)

- ① PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID WHITE) (70300904)
- ② PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE YELLOW) 11" C-C (70300904)

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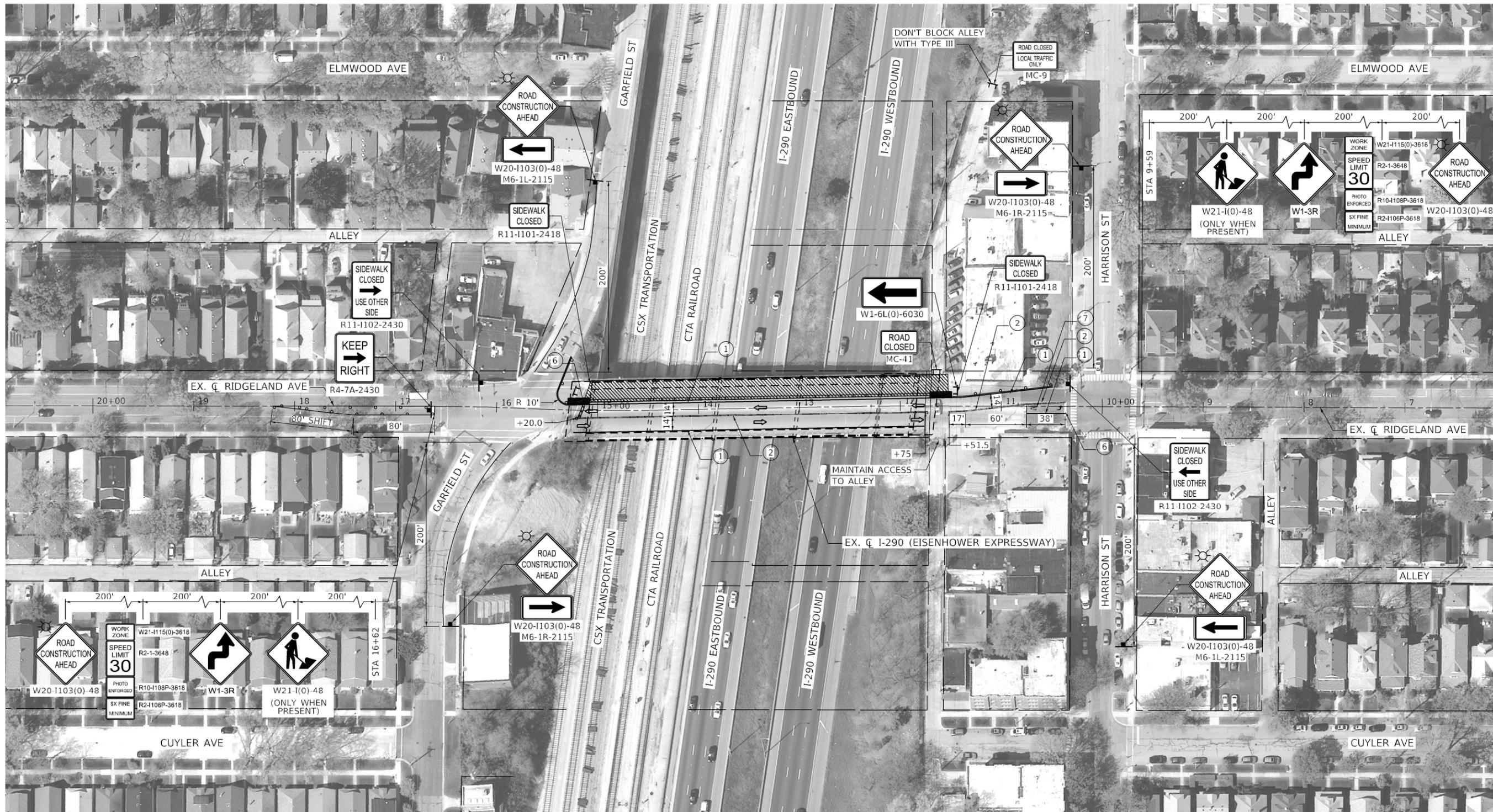


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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC RIDGELAND AVE – SEQUENCE OF CONSTRUCTION &amp; TYPICAL SECTIONS</b>			
SCALE:	SHEET	OF	SHEETS
STA.	TO STA.		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	8
CONTRACT NO. 62N03				
ILLINOIS FED. AID PROJECT				



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**LEGEND:**

- WORK AREA
- ARROW BOARD
- SIGN
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TYPE II BARRICADE OR DRUM WITH STEADY BURNING MONO-DIRECTIONAL LIGHT @ 25' CENTERS (10' CENTERS ALONG CURVES)
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW) TEST LEVEL 2 (70600241)

- ① PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID WHITE) (70300904)
- ② PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE YELLOW) 11" C-C (70300904)
- ③ PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID YELLOW) (70300904)
- ④ PAVEMENT MARKING TAPE, TYPE IV 6" (SOLID WHITE) (70300906)
- ⑤ PAVEMENT MARKING TAPE, TYPE IV 12" (SOLID WHITE) (70300912)
- ⑥ PAVEMENT MARKING TAPE, TYPE IV 24" (SOLID WHITE) (70300924)
- ⑦ PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS (SOLID WHITE) (70300900)

UTILIZE IDOT STANDARDS AND DISTRICT ONE DETAILS FOR CLOSURES WHILE INSTALLING PROTECTIVE SHIELDING

WORK ZONE TAPER RATE CALCULATIONS:  
 S = SPEED IN MPH = 30  
 MERGING TAPER RATE = (S\*S)/60 = 15/FT  
 SHIFTING TAPER RATE = (MERGING RATE)/2 = 7.5/FT  
 APPROACH BUFFER = 45 = 120 FT  
 LONGITUDINAL BUFFER = 16 FT MIN.



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
 RIDGELAND AVE - STAGE 1**

SCALE: SHEET OF SHEETS STA. TO STA.

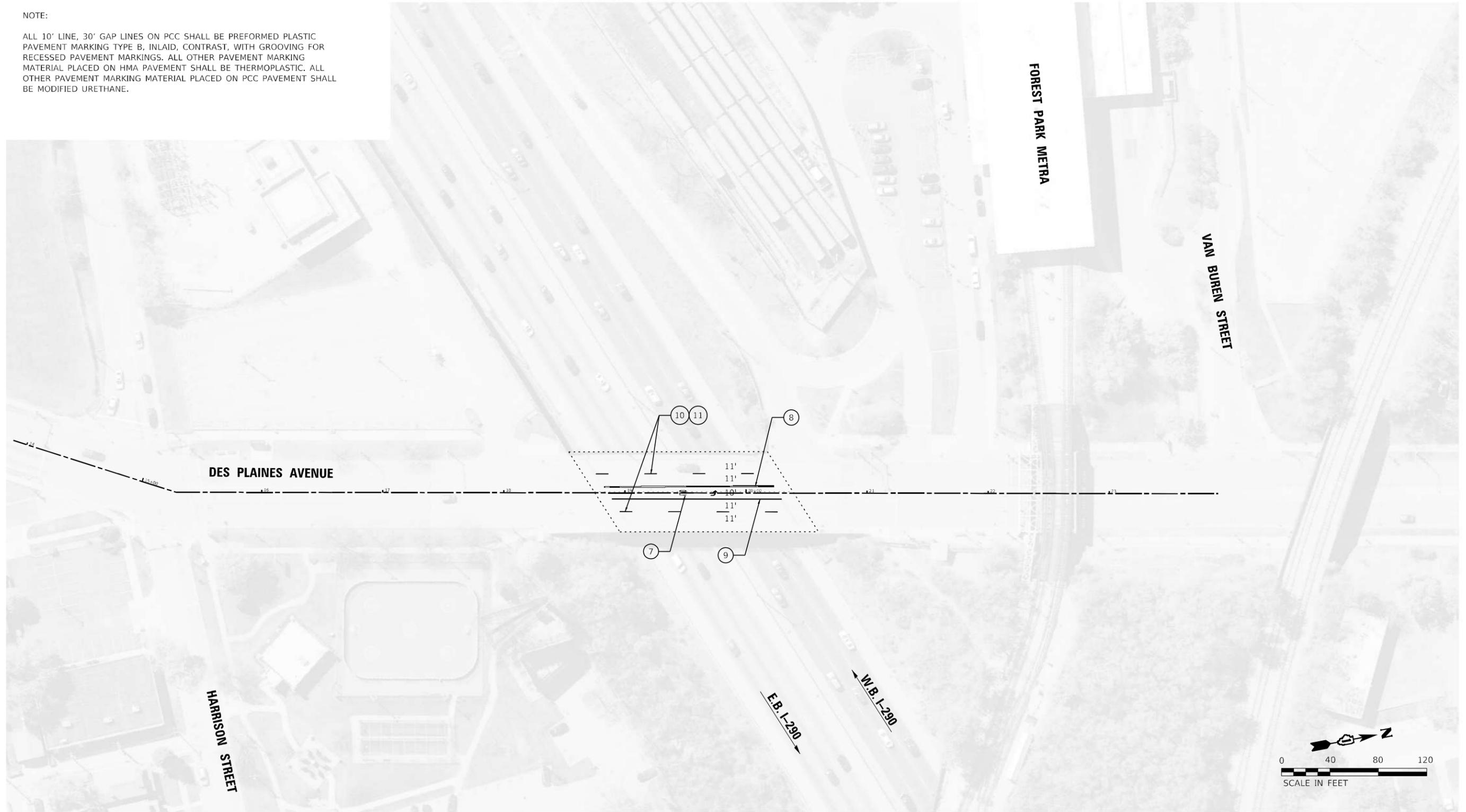
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N03	





**NOTE:**

ALL 10' LINE, 30' GAP LINES ON PCC SHALL BE PREFORMED PLASTIC PAVEMENT MARKING TYPE B, INLAID, CONTRAST, WITH GROOVING FOR RECESSED PAVEMENT MARKINGS. ALL OTHER PAVEMENT MARKING MATERIAL PLACED ON HMA PAVEMENT SHALL BE THERMOPLASTIC. ALL OTHER PAVEMENT MARKING MATERIAL PLACED ON PCC PAVEMENT SHALL BE MODIFIED URETHANE.



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**LEGEND:**

- ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (SOLID WHITE) (78000100)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) 11" C-C (78000200)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SKIP-DASH WHITE) (78000400)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SOLID WHITE) (78000400)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE) (78000600)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE) (78000650)
- ⑦ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (SOLID WHITE) (78009000)
- ⑧ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) 11" C-C (78009004)
- ⑨ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (SKIP-DASH WHITE) (78009006)
- ⑩ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - CONTRAST - LINE 7" (SKIP-DASH WHITE) (X7800956)
- ⑪ GROOVING FOR RECESSED PAVEMENT MARKING 9" (X7830076)

**NOTE:**

- 1. SEE DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC13).



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	DATE - 2/2/2021	FILE - 190508_SHT-PM2.dgn

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKING PLAN  
DES PLAINES AVENUE**

SCALE: 1" = 40' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	12
CONTRACT NO. 62N03				
ILLINOIS FED. AID PROJECT BRIDGE REPAIR				



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- LEGEND:**
- ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (SOLID WHITE) (78000100)
  - ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) 11" C-C (78000200)
  - ③ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SKIP-DASH WHITE) (78000400)
  - ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SOLID WHITE) (78000400)
  - ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE) (78000600)

- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE) (78000650)
- ⑦ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (SOLID WHITE) (78009000)
- ⑧ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) 11" C-C (78009004)
- ⑨ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (SKIP-DASH WHITE) (78009006)
- ⑩ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - CONTRAST - LINE 7" (SKIP-DASH WHITE) (X7800956)
- ⑪ GROOVING FOR RECESSED PAVEMENT MARKING 9" (X7830076)

**NOTE:**  
1. SEE DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC13).



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
RIDGELAND AVE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N03	



**GENERAL NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Concrete repairs shall receive final surface finish according to Article 420.09(e)(1). Cost included with the appropriate repair item.

**INDEX OF SHEETS**

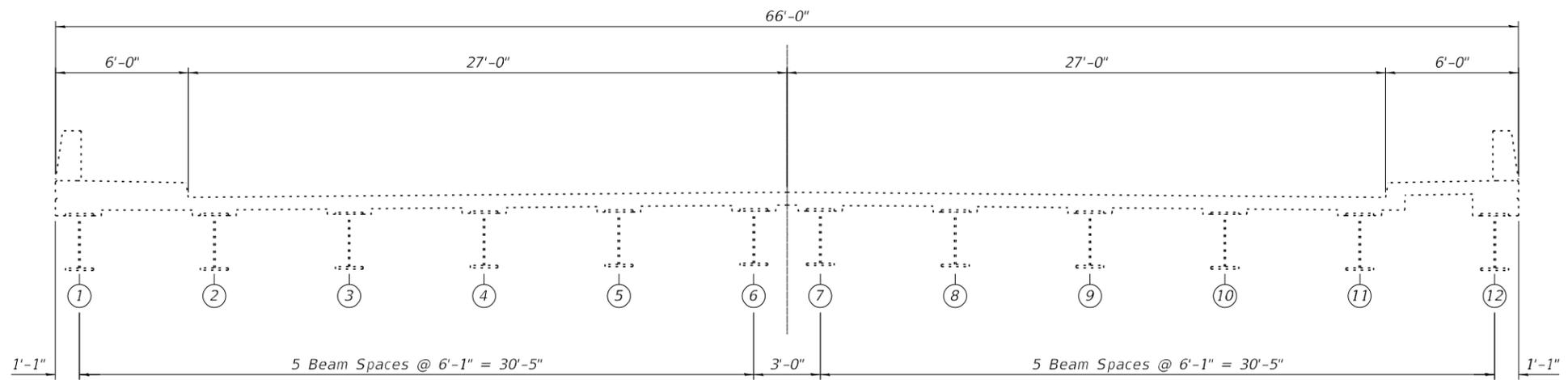
1. General Plan and Elevation
2. General Data
3. Deck & Joint Repair Details
4. Protective Shield Details
5. Expansion Joint Details

**SCOPE OF WORK**

1. Expansion joint nosing repairs.
2. Expansion joints replacement.
3. Deck slab repairs.
4. Protective shield installation and removal.
5. Approach slab repairs.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	1.0
Protective Shield	Sq. Yd.	16
Prefomed Joint Seal 1½"	Foot	162
Approach Slab Repair (Partial Depth)	Sq. Yd.	8
Deck Slab Repair (Full Depth, Type 1)	Sq. Yd.	1
Deck Slab Repair (Partial)	Sq. Yd.	1
Polymer Concrete	Cu. Ft.	27.0



**EXISTING BRIDGE CROSS SECTION**  
Looking south

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	DATE - 2/2/2021	REVISED -

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

**GENERAL DATA**  
**STRUCTURE NO. 016-0706 (DES PLAINES AVE.)**

SHEET 2 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	15
			CONTRACT NO. 62N03	
ILLINOIS				

**GENERAL NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Concrete repairs shall receive final surface finish according to Article 420.09(e)(1). Cost included with the appropriate repair item.

**INDEX OF SHEETS**

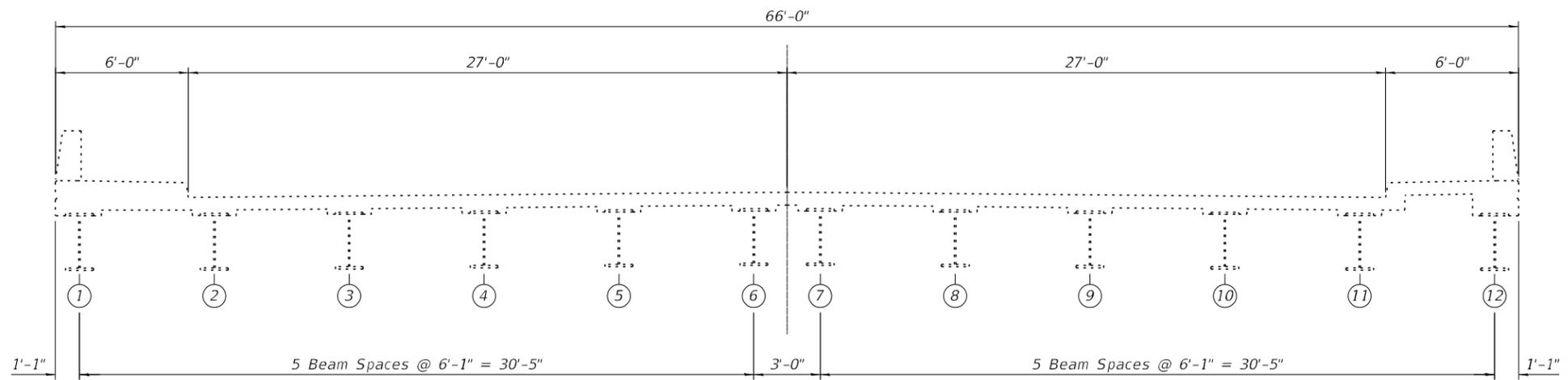
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2. General Data
3. Deck & Joint Repair Details
4. Protective Shield Details
5. Expansion Joint Details

**SCOPE OF WORK**

1. Expansion joint nosing repairs.
2. Expansion joints replacement.
3. Deck slab repairs.
4. Protective shield installation and removal.
5. Approach slab repairs.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	1.0
Protective Shield	Sq. Yd.	16
Prefomed Joint Seal 1"	Foot	162
Approach Slab Repair (Partial Depth)	Sq. Yd.	8
Deck Slab Repair (Full Depth, Type 1)	Sq. Yd.	1
Deck Slab Repair (Partial)	Sq. Yd.	1
Polymer Concrete	Cu. Ft.	27.0



**EXISTING BRIDGE CROSS SECTION**  
Looking south

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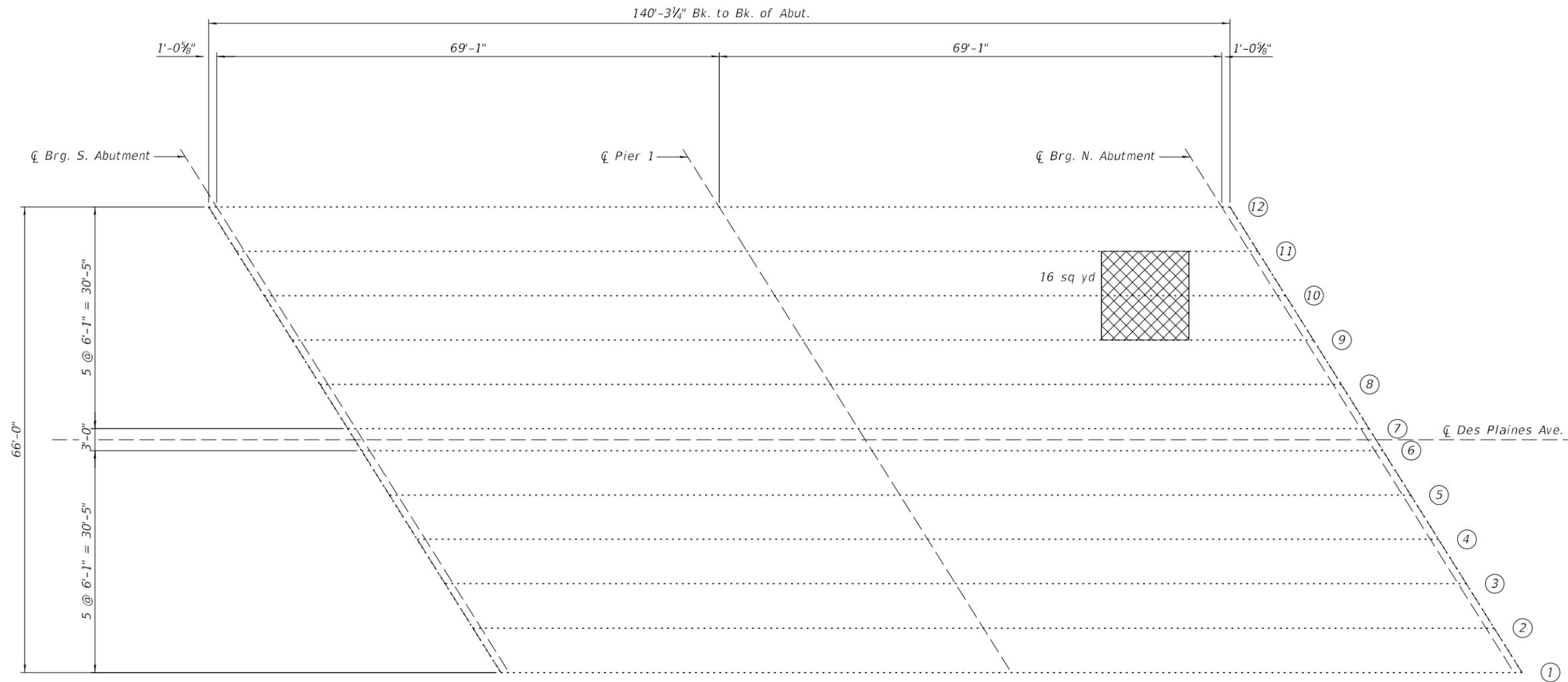
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA  
STRUCTURE NO. 016-0706 (DES PLAINES AVE.)**

SHEET 2 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	15
			CONTRACT NO. 62N03	
ILLINOIS				



EXISTING FRAMING PLAN

**LEGEND**

- Protective Shield
- Beam Number

**BILL OF MATERIAL**

Item	Unit	Total
Protective Shield	Sq. Yd.	16

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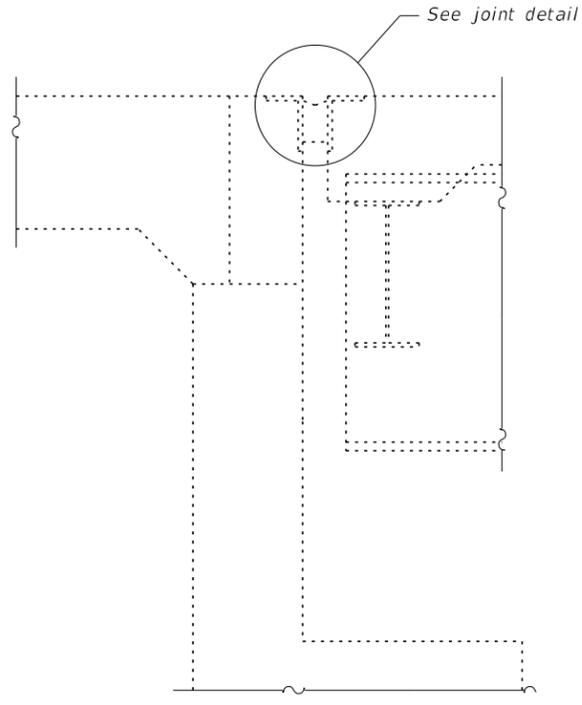
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROTECTIVE SHIELD DETAILS  
STRUCTURE NO. 016-0706 (DES PLAINES AVE.)**

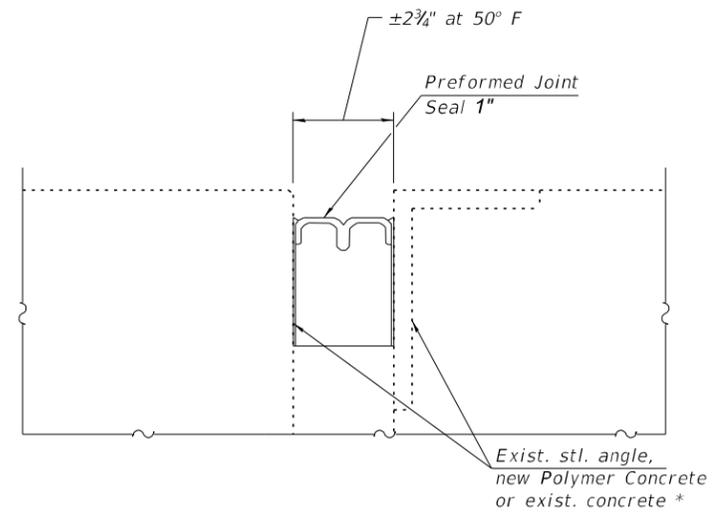
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62N03	
		ILLINOIS		

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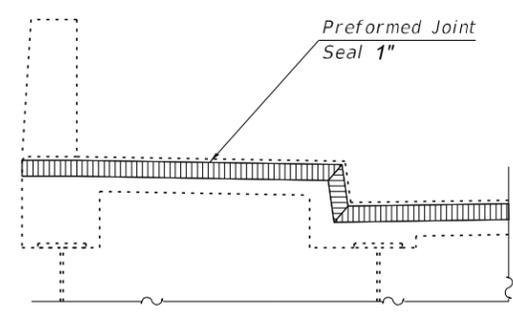


TYPICAL SECTION AT ABUTMENTS



JOINT DETAIL

\* Install Preformed Joint Seal against existing concrete at sidewalks.



TYPICAL SECTION THRU SIDEWALK

Notes:  
 Removal of the existing seal is included in the cost of Preformed Joint Seal.  
 See sheet 3 of 8 for Polymer Concrete repair locations.

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Seal 1"	Foot	162

<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	USER NAME = 7711jk	DESIGNED -	REVISED -
		CHECKED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT DETAILS  
STRUCTURE NO. 016-0706 (DES PLAINES AVE.)**

SHEET 5 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	18
			CONTRACT NO. 62N03	
ILLINOIS				



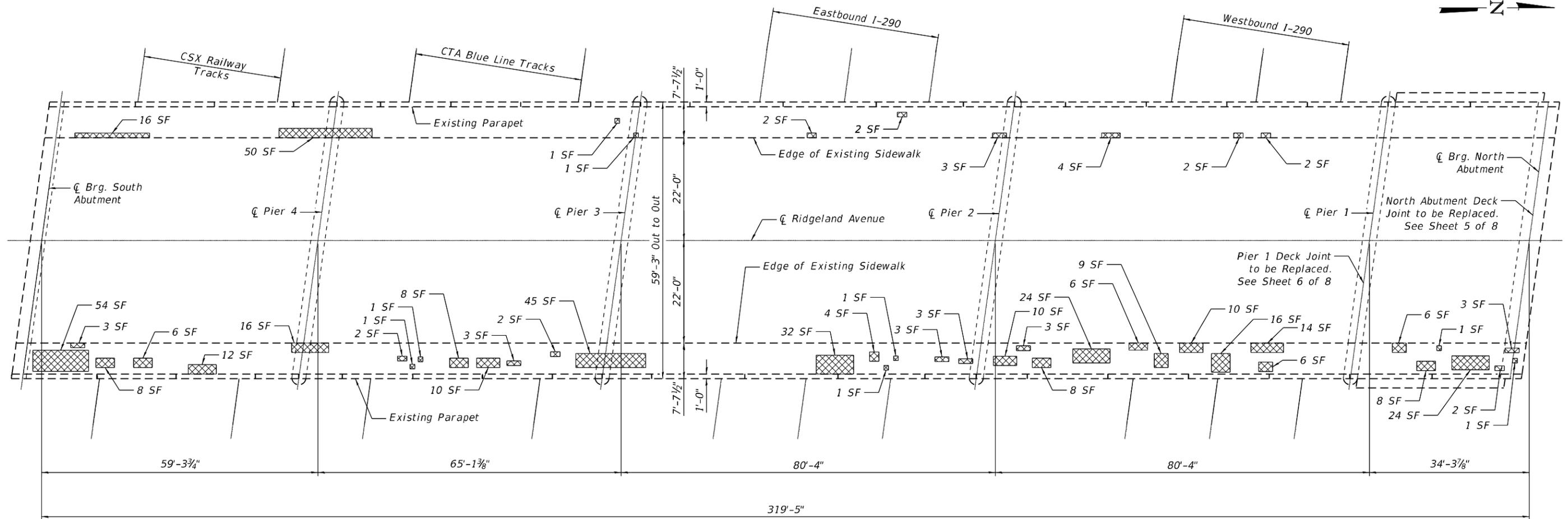


Notes:

For parapet repairs, see sheet 4 of 8.  
 Repairs of the existing sidewalks shall include, but may not be limited to, the area shown. The actual areas to be determined by the Engineer at the time of construction.  
 Bridge Sidewalk Repair (Full Depth) shall be performed according to the Guide Bridge Special Provision for Structural Repair of Concrete and as directed by the Engineer in the field.  
 Debris Screen shall cover the full height and length of the existing bridge fence railing and shall be installed prior to any concrete removal. See Special Provisions.

LEGEND

 Bridge Sidewalk Repair (Full Depth)



SIDEWALK REPAIR PLAN

BILL OF MATERIAL

Item	Unit	Total
Bridge Sidewalk Repair (Full Depth)	Sq. Ft.	449

USER: f04vc  
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 DRAWN - HB  
 CHECKED - JJI

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIDEWALK REPAIR PLAN  
 STRUCTURE NO. 016-0710 (RIDGELAND AVENUE)

SHEET 3 OF 8

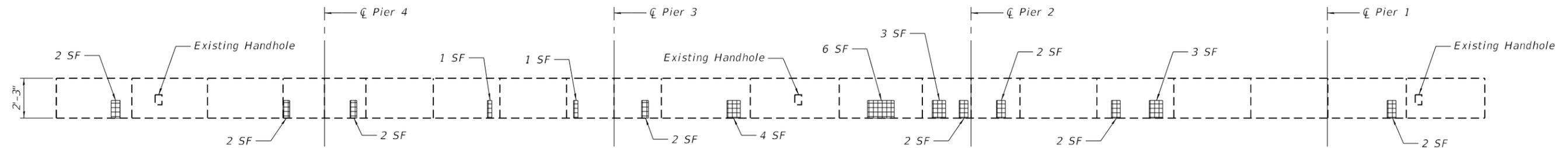
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	21
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N03	

**Notes:**

Repairs of the existing parapets shall include, but may not be limited to, the area shown. The actual areas to be determined by the Engineer at the time of construction.  
 Debris Screen shall cover the full height and length of the existing bridge fence railing and shall be installed prior to any concrete removal. See Special Provisions.  
 The contractor is alerted to the presence of electrical conduit within the existing parapets. The conduit should be accurately located prior to performing concrete repairs. Any damages caused by the Contractor to existing utilities shall be repaired by the contractor at no additional cost.

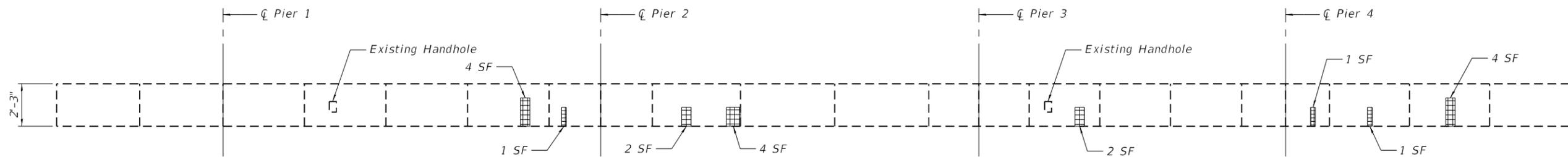
**LEGEND**

 Structural Repair of Concrete (Depth Equal to or Less Than 5")



**WEST PARAPET ELEVATION**

(Looking at Inside Face 4:1 V:H)  
 (Railing omitted for clarity)



**EAST PARAPET ELEVATION**

(Looking at Inside Face 4:1 V:H)  
 (Railing omitted for clarity)

**BILL OF MATERIAL**

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	53

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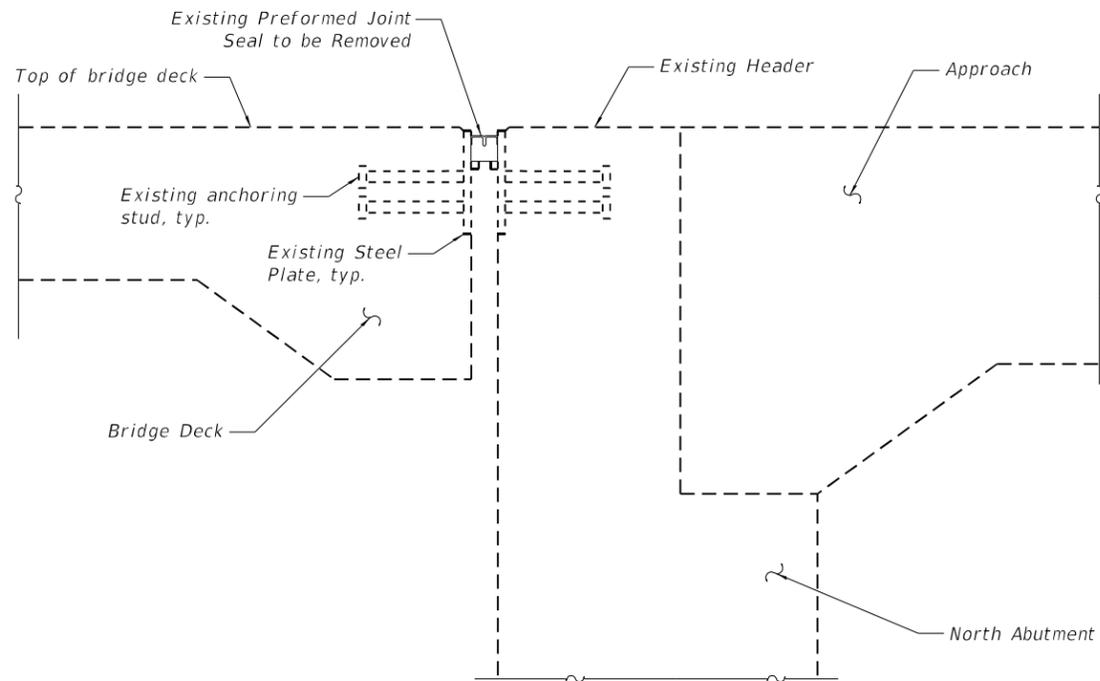
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

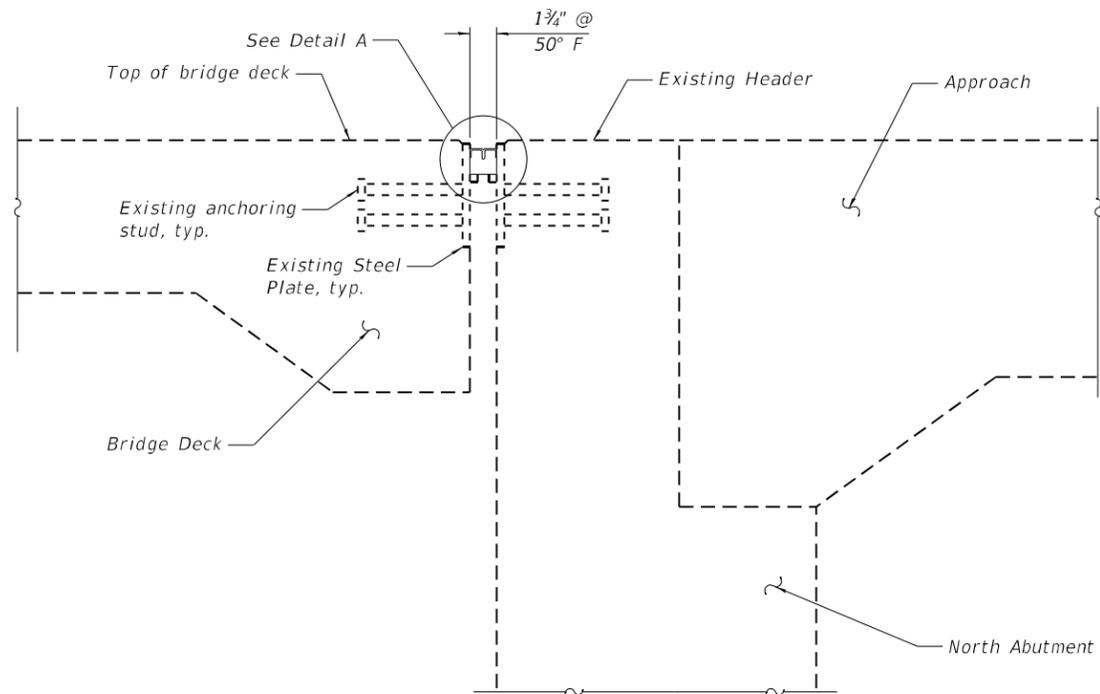
**PARAPET REPAIR DETAILS  
 STRUCTURE NO. 016-0710 (RIDGELAND AVENUE)**

SHEET 4 OF 8

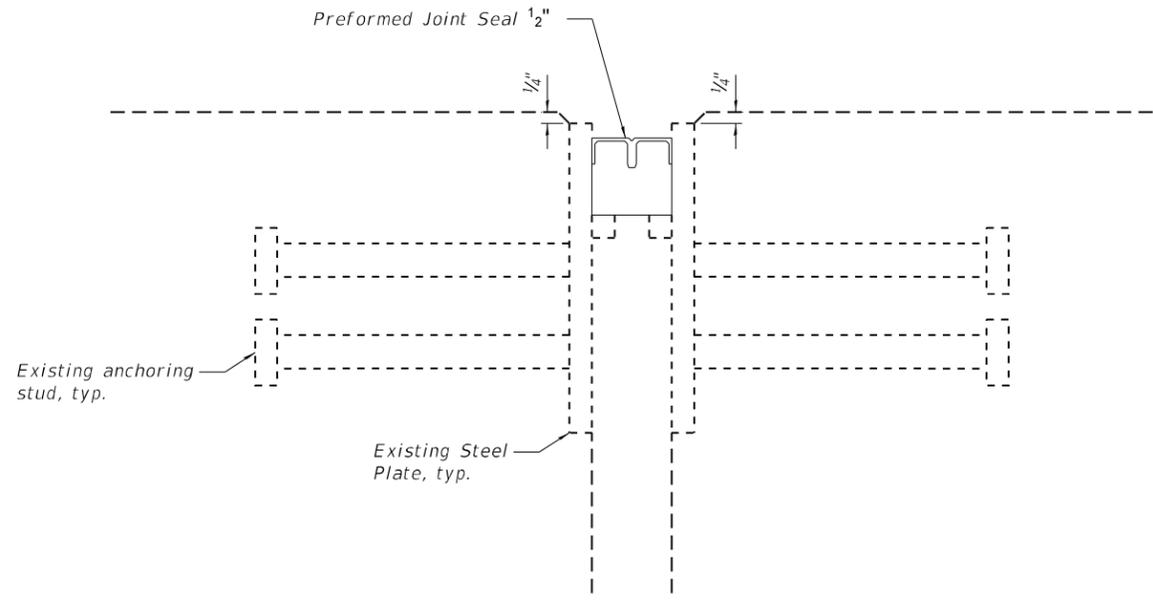
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N03	



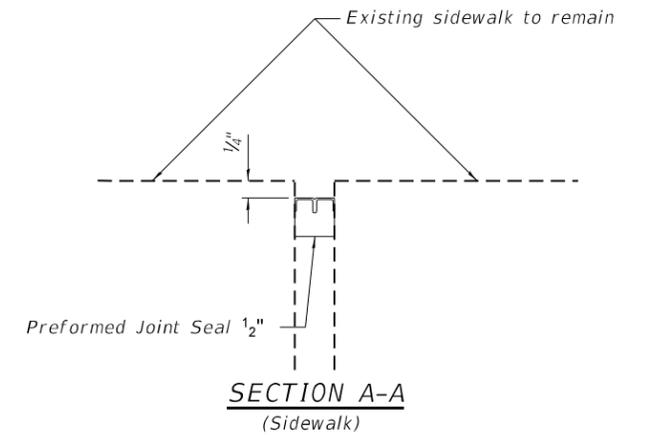
**REMOVAL DETAIL**



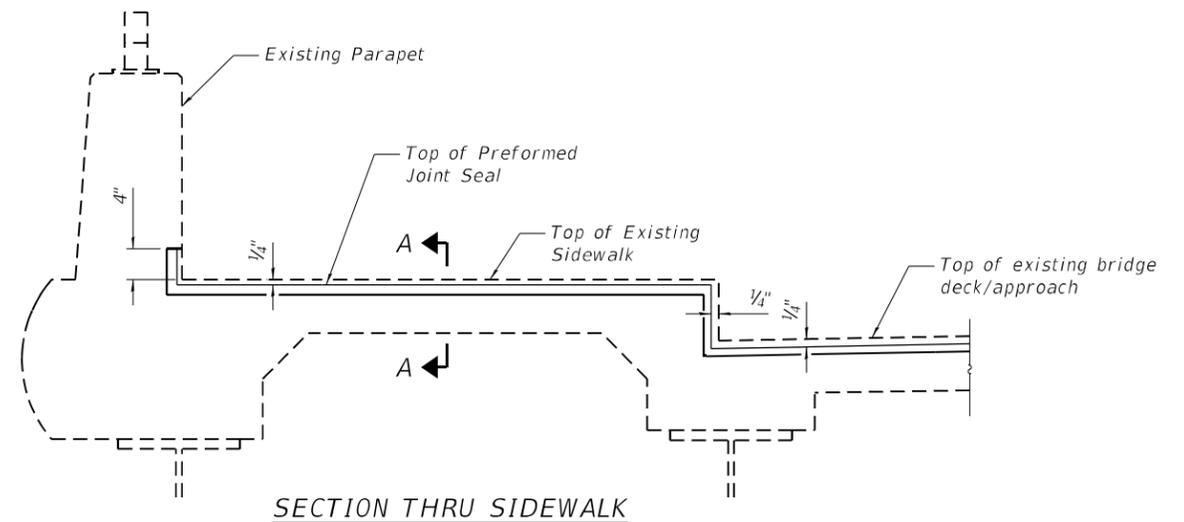
**JOINT DETAIL**



**DETAIL A**



**SECTION A-A  
(Sidewalk)**



**SECTION THRU SIDEWALK**

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Seal 1/2"	Foot	65

Notes:  
Cost of removing existing seal is included in the cost of Preformed Joint Seal.

USER: f04nc  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT JOINT REPAIR DETAILS  
 STRUCTURE NO. 016-0710 (RIDGELAND AVENUE)**

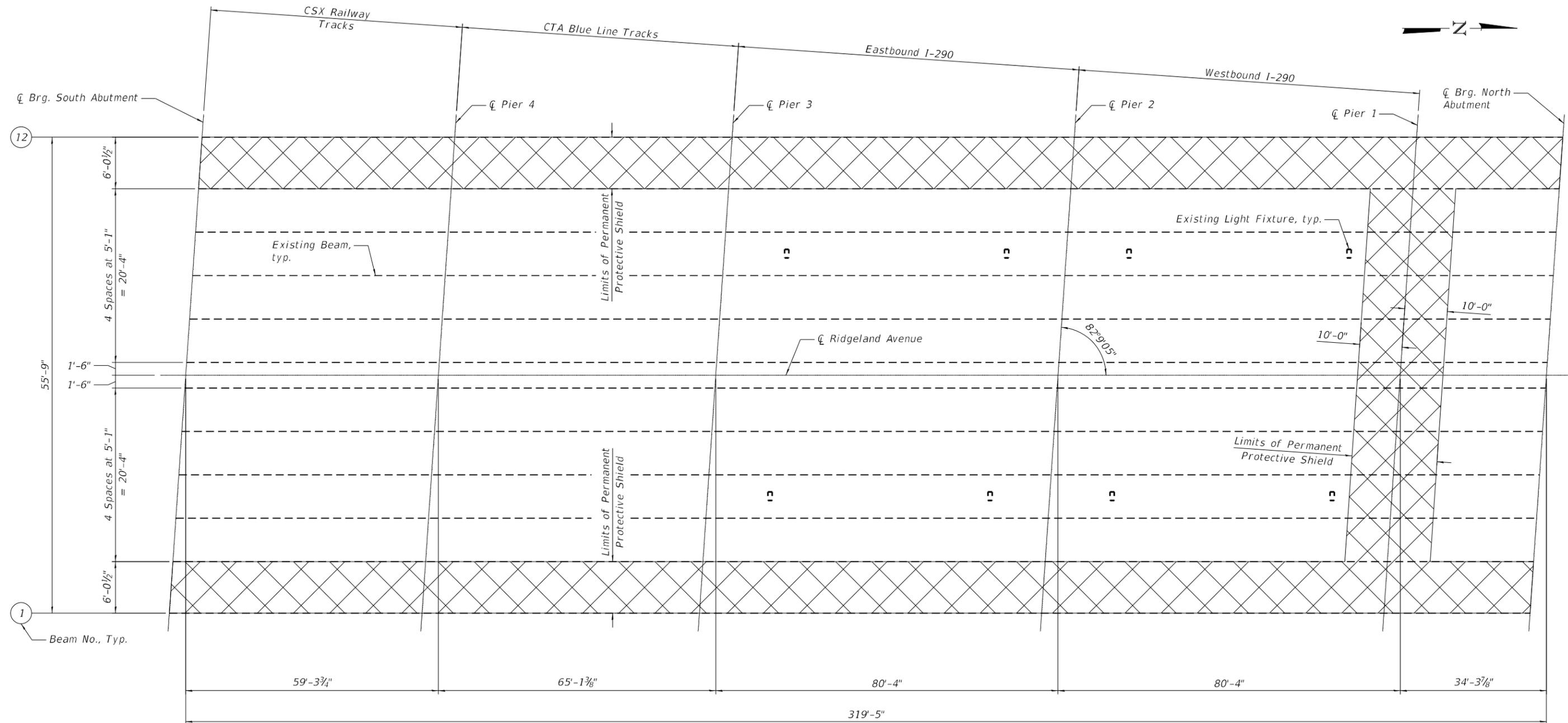
SHEET 5 OF 8

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	23
CONTRACT NO. 62N03				

ILLINOIS FED. AID PROJECT



Note:  
Contractor is alerted to the presence of light fixtures attached to the underside of the deck. Verify locations of light fixtures and conduits in the field. Additional fixtures and conduits may be present under the bridge.



**LEGEND**



Limits of Permanent Protective Shield

**FRAMING PLAN**

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN  
STRUCTURE NO. 016-0710 (RIDGELAND AVENUE)**

SHEET 7 OF 8

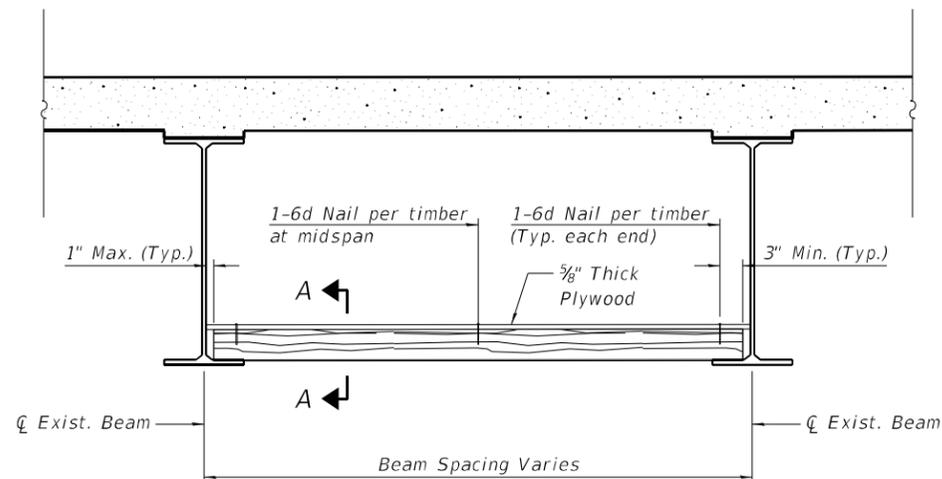
F.A.I. RTE. 290	SECTION 2020-233-BR	COUNTY COOK	TOTAL SHEETS 40	SHEET NO. 25
CONTRACT NO. 62N03			ILLINOIS FED. AID PROJECT	

**BILL OF MATERIAL**

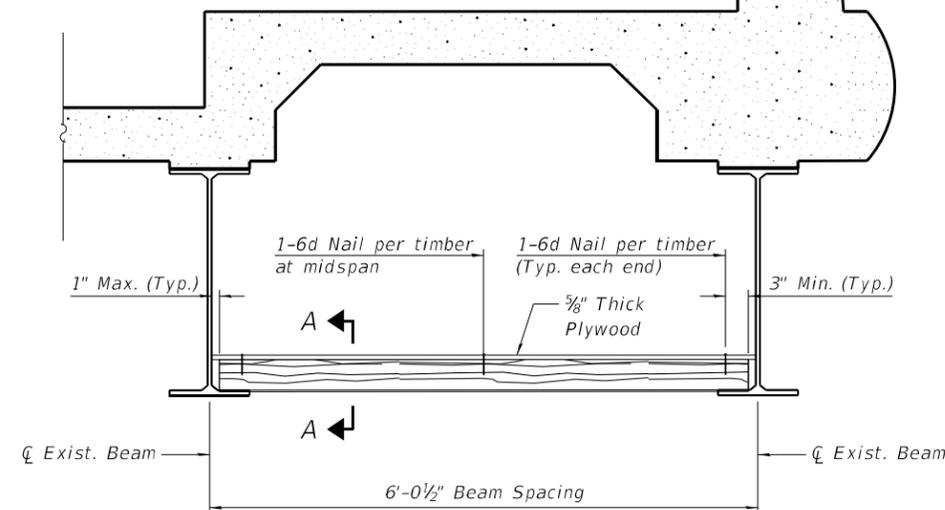
Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	527

**TIMBER SPACING**

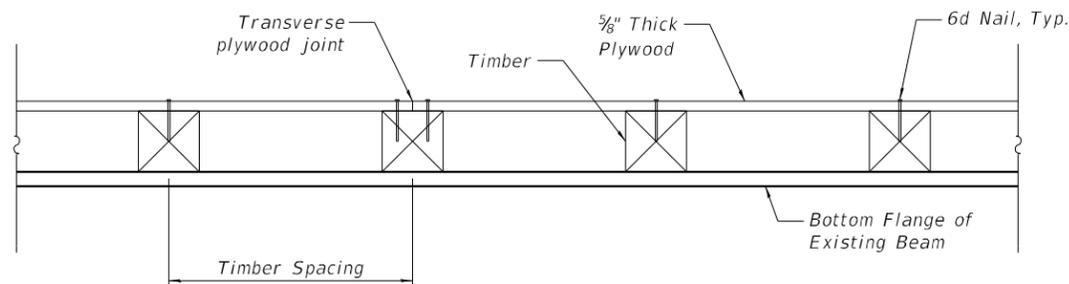
Beam Spacing (ft.)	Timber Sizes (in.)		
	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi
	Maximum Timber Spacing (in.)		
4.5	16	16	16
4.75	16	16	16
5.0	16	16	16
5.25	16	16	16
5.75	16	16	16
6.0	16	16	16
6.25	12	16	16
6.5	12	16	16
6.75	12	16	16
7.0	8	16	16
7.25	8	16	16
7.5	8	16	16
7.75	8	16	16
8.0	8	12	16
8.25	8	12	16
8.5	6	12	12
8.75	6	12	12
9.0	6	8	12



**TYPICAL SECTION THRU INTERIOR BAY**



**TYPICAL SECTION THRU EXTERIOR BAY**



**SECTION A-A**

**NOTES**

- See special provision for Permanent Protective Shield System.
- The Contractor shall relocate any conduit attached to the flange prior to the installation of the protective shield system. Under no circumstances shall the protective shielding rest on top of the conduit. Any damages caused by the Contractor to existing utilities shall be repaired by the contractor at no additional cost.
- Any work done by the Contractor on the underpass lighting system will require a transfer of maintenance of the effected circuits to the Contractor. Alternatively, the Contractor can avoid a maintenance transfer by hiring the Illinois Department of Transportation's Electrical Maintenance Contractor (EMC) to relocate the conduit.
- Where underpass lighting is present on a structure, the Contractor shall adjust the protective shielding to ride above the existing lighting fixtures in order to maintain the existing level of lighting on the roadway underneath. Details shall be approved by the Engineer before installation. A clearance of 1 1/2" ± 1/4" around the fixture shall be provided for future maintenance.
- Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable. Any adjustment done to the protective shield system must not change the load carrying capacity or containment specifications as indicated on the permanent protective shielding details in the plans and special provisions. Cost of adjusting shielding is included in the cost of Protective Shield (Permanent).
- It shall be the Contractor's responsibility to verify the location of all utilities prior to the start of construction.
- Contractor must complete work without disturbing any existing lighting and surveillance conduit or junction boxes. If installations are damaged in the process, Contractor shall repair or replace existing electrical installations in compliance with electrical or surveillance construction specifications.
- The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.
- The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions.
- All timber shall be treated.
- Plywood shall be 5/8" Exterior type plywood.
- Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.
- Transverse plywood joints shall be supported by timbers.
- When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.
- Design load = 200 psf.

USER: f04vc  
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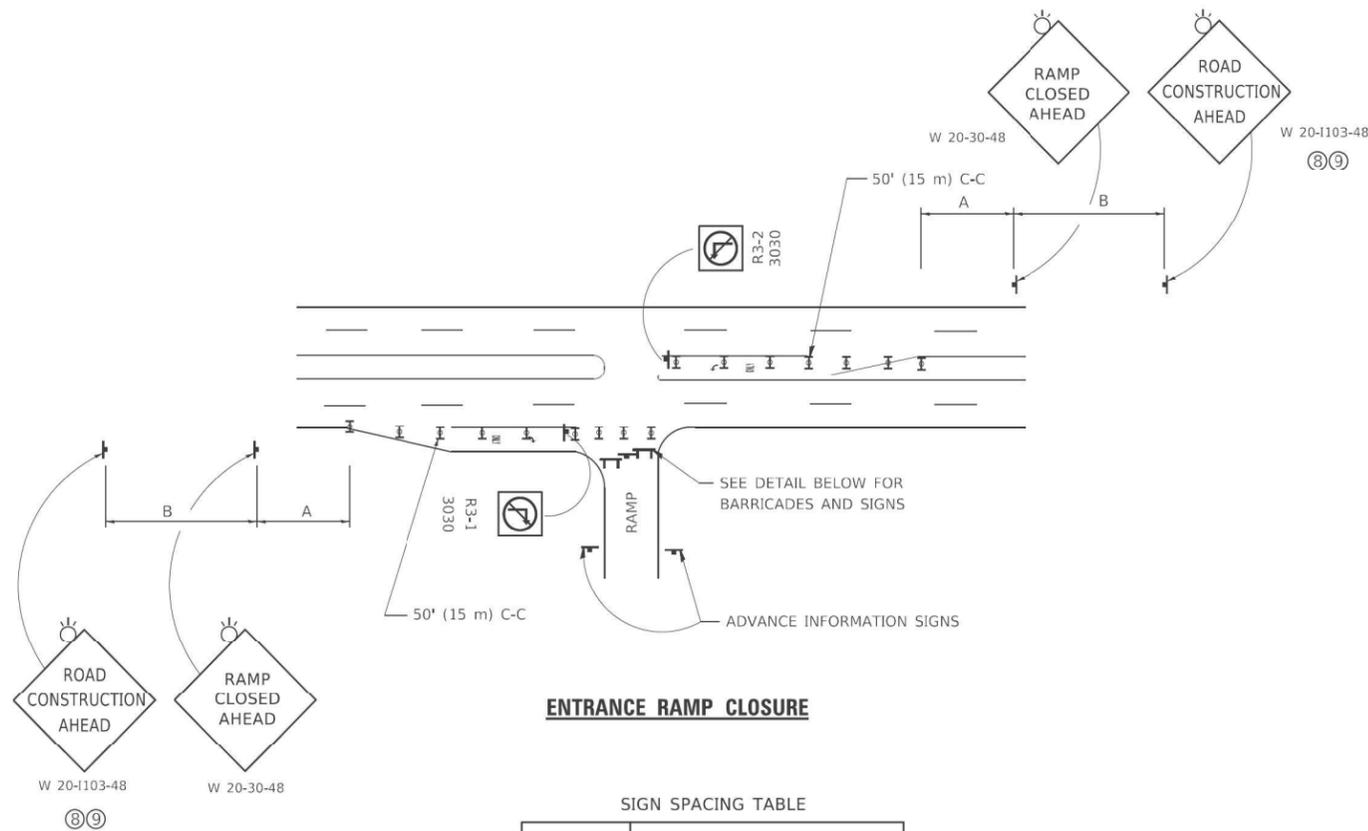
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PERMANENT PROTECTIVE SHIELD DETAILS  
STRUCTURE NO. 016-0710 (RIDGELAND AVENUE)**

SHEET 8 OF 8

F.A.I. RTE. 290	SECTION 2020-233-BR	COUNTY COOK	TOTAL SHEETS 40	SHEET NO. 26
CONTRACT NO. 62N03				
ILLINOIS FED. AID PROJECT				

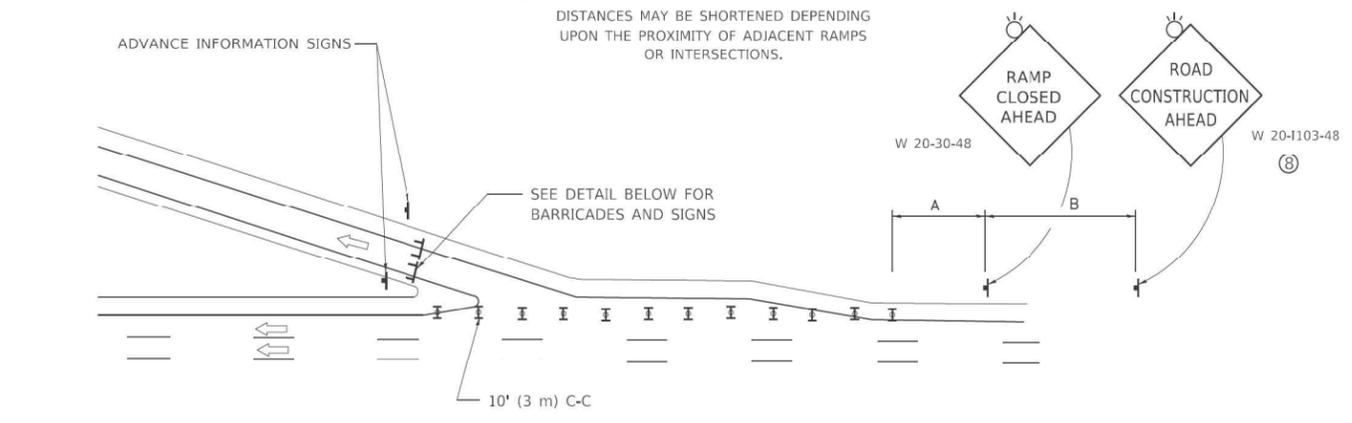


**ENTRANCE RAMP CLOSURE**

**SIGN SPACING TABLE**

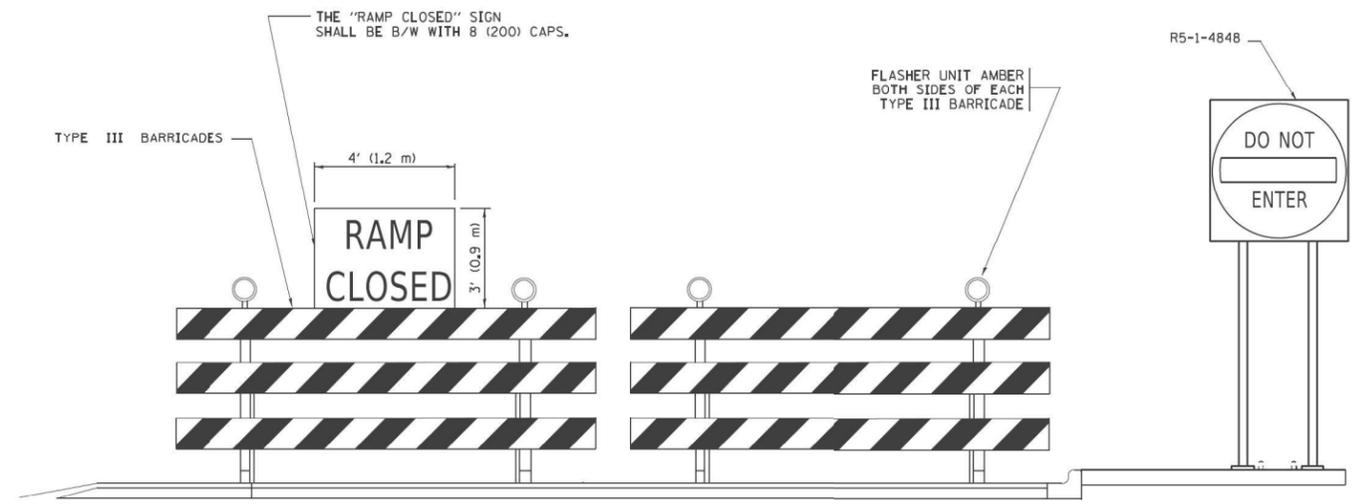
FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

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



**EXIT RAMP CLOSURE**

- SYMBOLS**
- I TYPE II BARRICADE OR DRUM
  - ⌈ TYPE III BARRICADE WITH 2 FLASHING LIGHTS

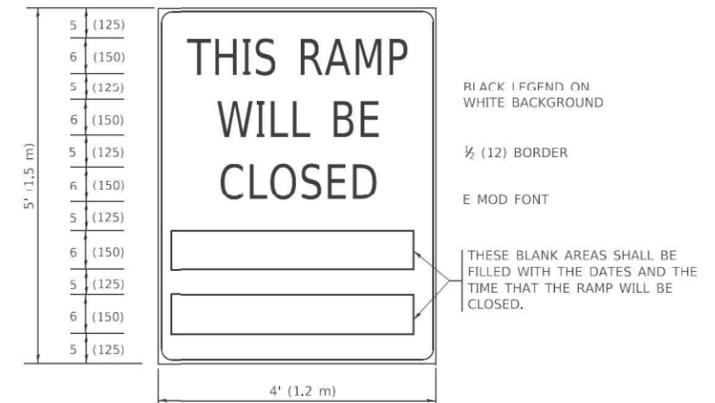


**DETAIL FOR REQUIRED BARRICADES & SIGNS**



**RAMP CLOSURE ADVANCE WARNING SIGN**

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**

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.

USER: f09vc FILE: I:\PROJECTS\2020\2020-233-000\DOT\PTB\_190\_14\_Pbase II\_Voc\Auto\Detail\WV\_18\_62N03\_CADD\CADD\_SIGNED\182N03-PTB-dwg-D1-TC08.dwg



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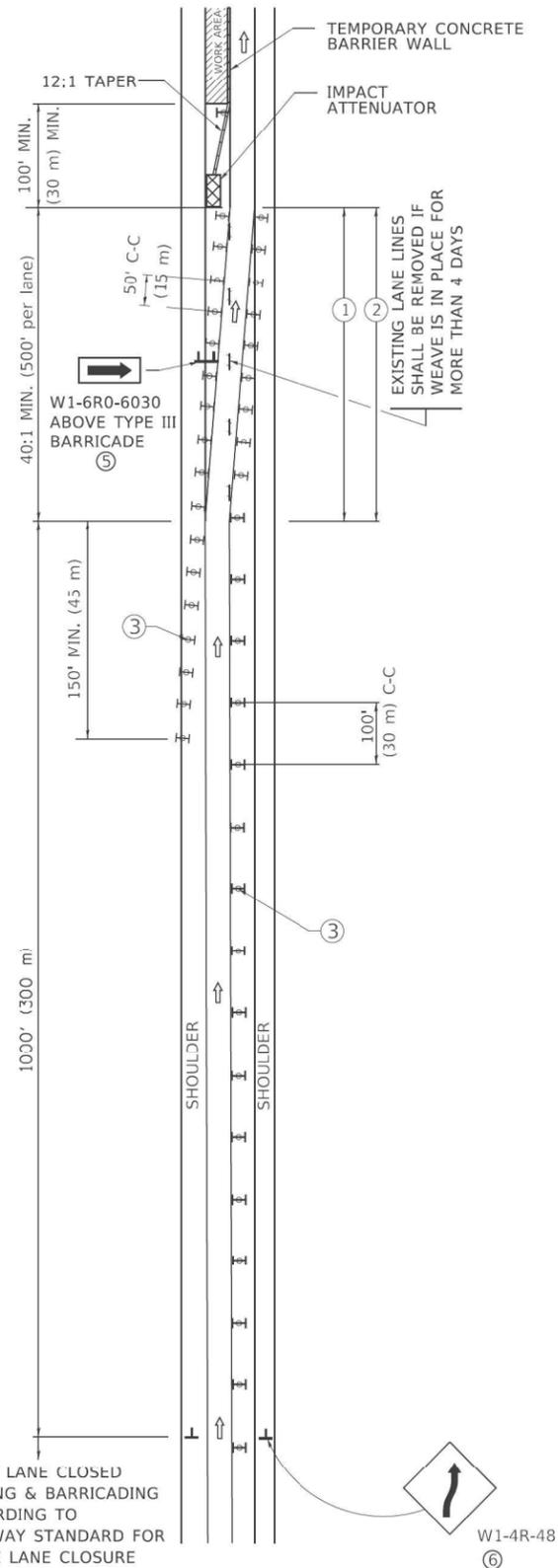
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS**

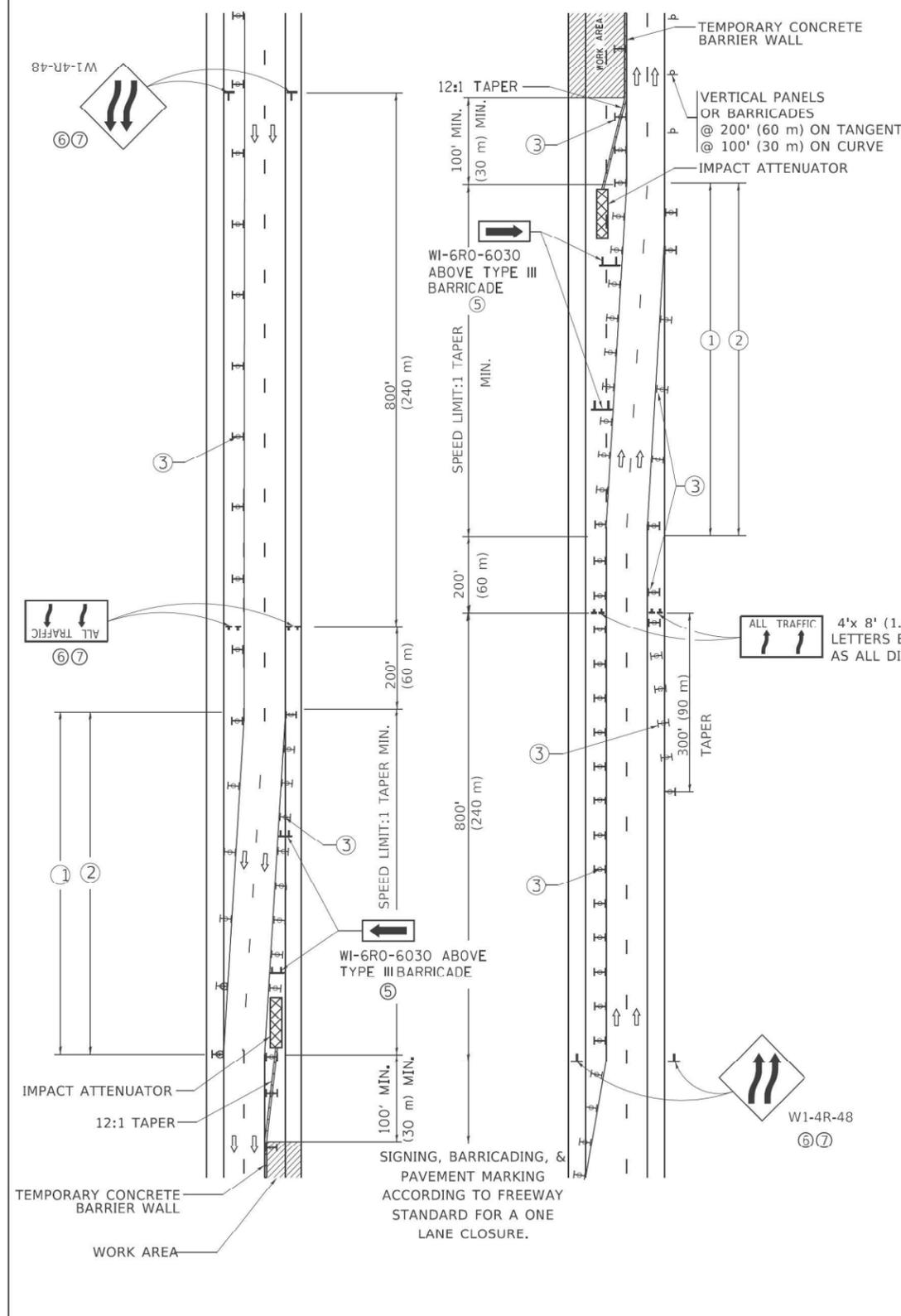
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	27
TC-08			CONTRACT NO. 62N03	
ILLINOIS FED. AID PROJECT				

# SINGLE LANE WEAVE

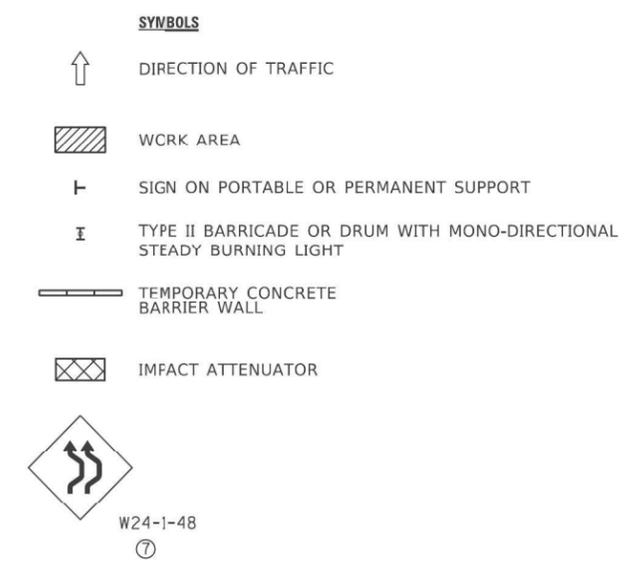


# MULTI-LANE WEAVE



### GENERAL NOTES:

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② 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.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ 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.
- ⑥ 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.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

USER: f00vc  
 FILE: TC-09-0001\_PLOT\_2019\_0004\_IDOT\_PTB\_190\_14\_Phrase II\_Voc-ur-Dcr-frm-WG\_18\_62N03-CADD-CADD\_S-ncs-ID162N03-phr-dcr-D1-TC09.dgn  
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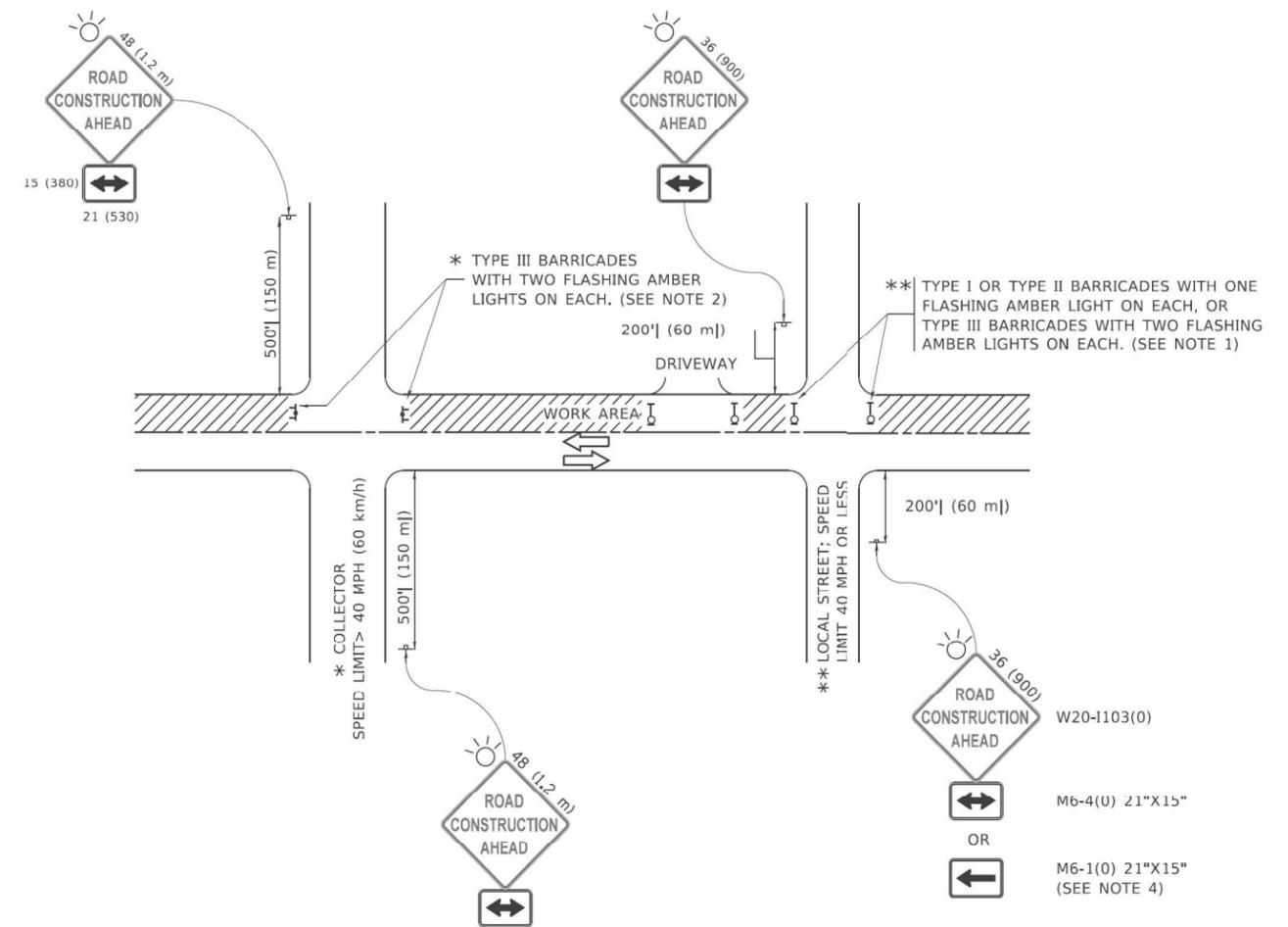


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PLOT DATE = 3/4/2019	DATE - 02-87	REVISED - M.D. 06-13

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE &amp; MULTI-LANE WEAVE</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	28
TC-09		CONTRACT NO. 62N03		
ILLINOIS FED. AID PROJECT				



**NOTES:**

- 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:
  - 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.
  - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - 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.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 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.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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.

USER: f00vc  
 FILE: TC10.dwg  
 FILE NAME: PLOT\_209\_004\_IDOT\_PTB\_190\_14 Phase II Vnc-Char-Defin-WG\_18\_62N03-CADD-CADD\_Signed-D162N03-phr-dwg-D1-TC10.dwg



USER NAME = f00vc	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED - T. RAMMACHER 01-06-00
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

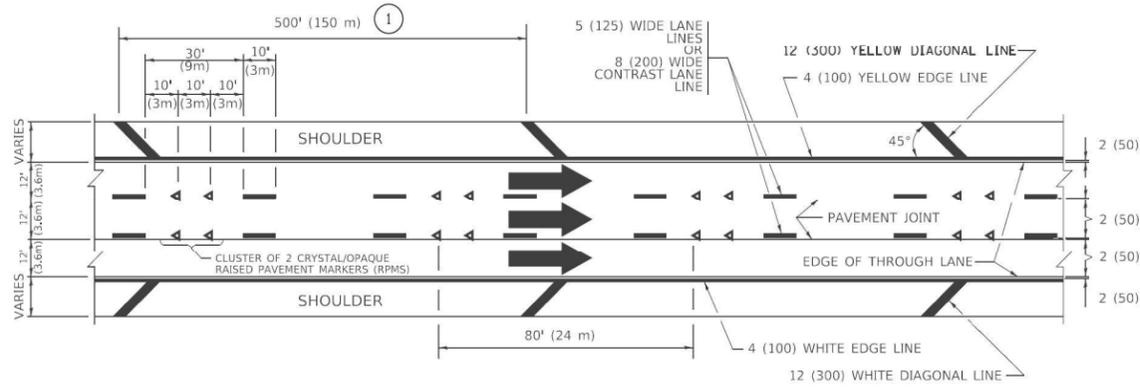
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	29
TC-10			CONTRACT NO. 62N03	
ILLINOIS FED. AID PROJECT				

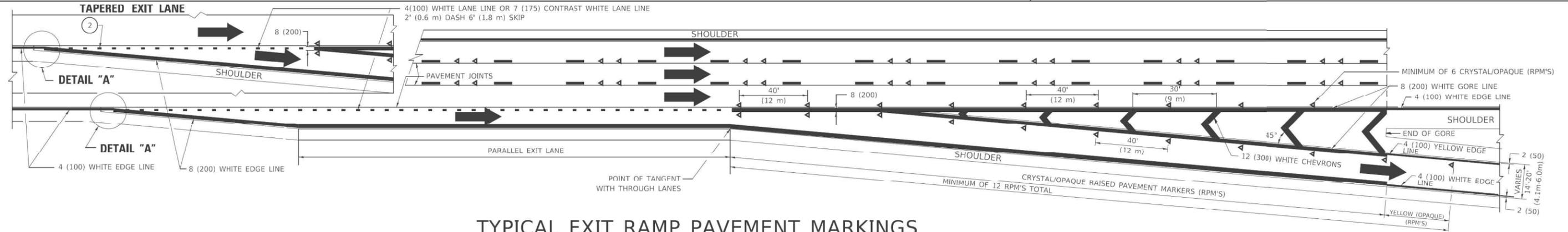




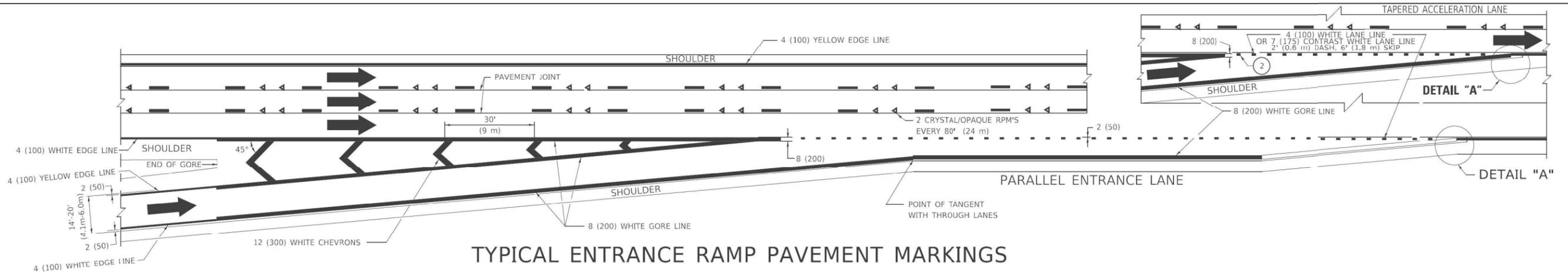
TYPICAL EDGE LINES & LANE LINES

**PAVEMENT MARKING MATERIALS**

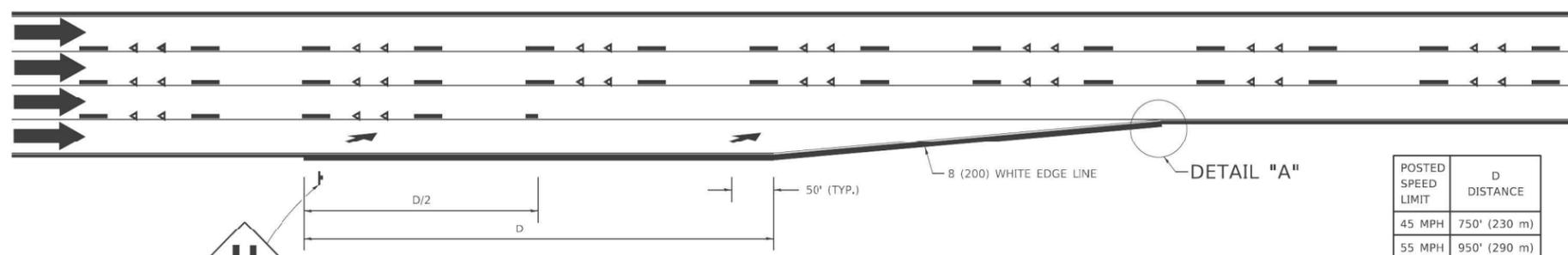
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URET-HANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

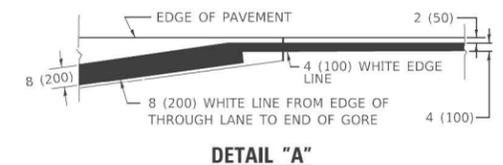


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



**NOTES:**

- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
- ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

USER: f00vc  
 FILE: TC12A.PLT  
 FILE: W4-2-48.PLT  
 209.004 IDOT P18 190 14 Phase II Variable Deceleration  
 18 62N03-CADD-CADD-StructID162N03-PT-DEC-D1-TC12A.dgn



USER NAME = footemj	DESIGNED - D.W.S.	REVISED - S.P.B. 01-07
	DRAWN -	REVISED - S.P.B. 01-10
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED - M.D. 05-13
PLOT DATE = 3/4/2019	DATE - 01-90	REVISED - M.D. 09-17

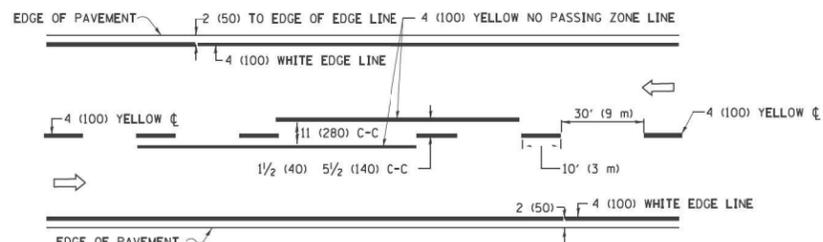
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MULTI-LANE FREEWAY  
PAVEMENT MARKING DETAILS

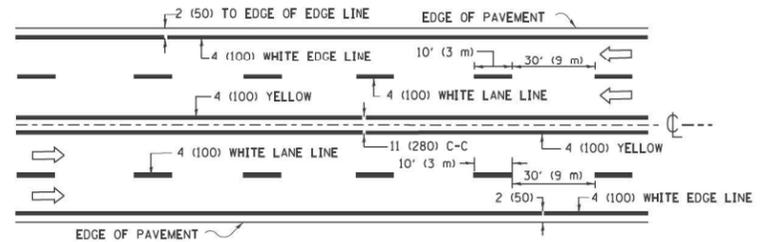
SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-12		CONTRACT NO. 62N03		
ILLINOIS FED. AID PROJECT				

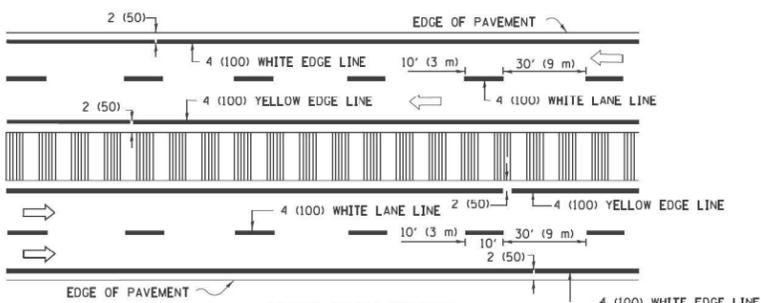




**2-LANE ROADWAY**

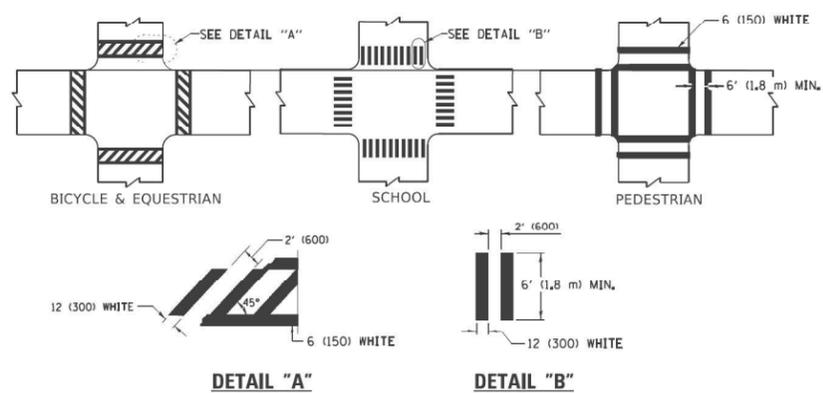


**MULTI-LANE UNDIVIDED**



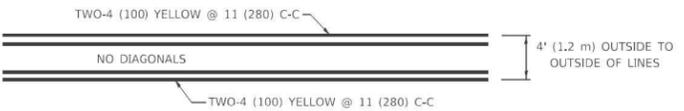
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

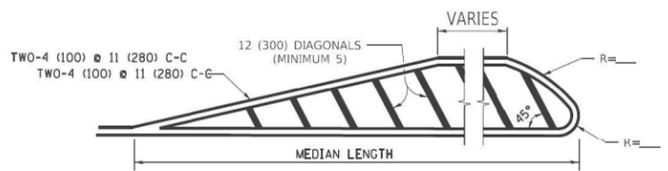


**TYPICAL CROSSWALK MARKING**

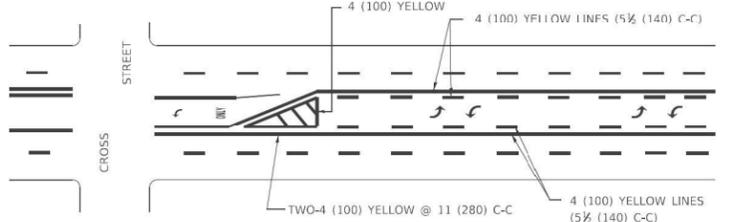
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



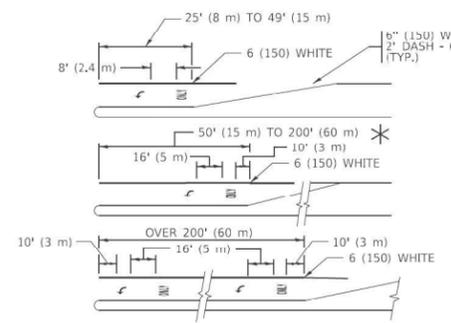
**4' (1.2 m) WIDE MEDIANS ONLY**



**MEDIANS OVER 4' (1.2 m) WIDE**



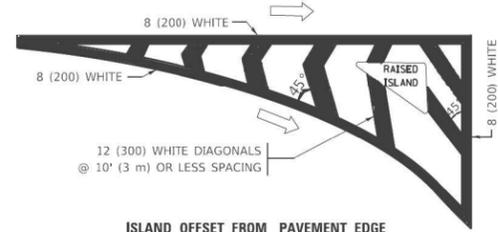
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**



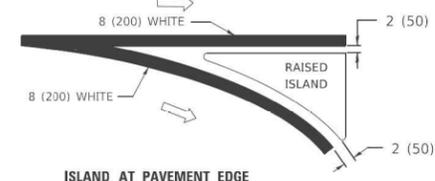
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
 AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
 \* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

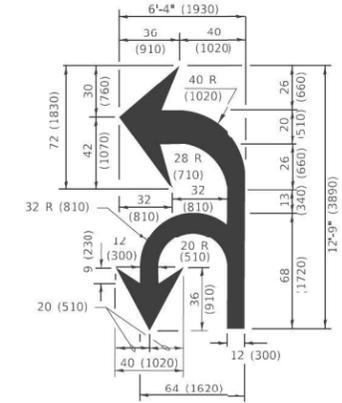


**ISLAND OFFSET FROM PAVEMENT EDGE**

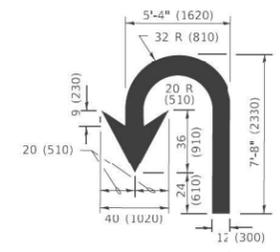


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	7 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN JUMP (50 km/h)) 20' (6 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: *RR* 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR *X* AREA OF: *R*=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH *X*=54.0 SQ. FT. (5.0 m <sup>2</sup> )	SOLID	WHITE	SEE STATE STANDARD 780001
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

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 18 62N03.CADD\DCADD\_S\STANDARD\62N03-PLT-DC-01-TC13.dwg



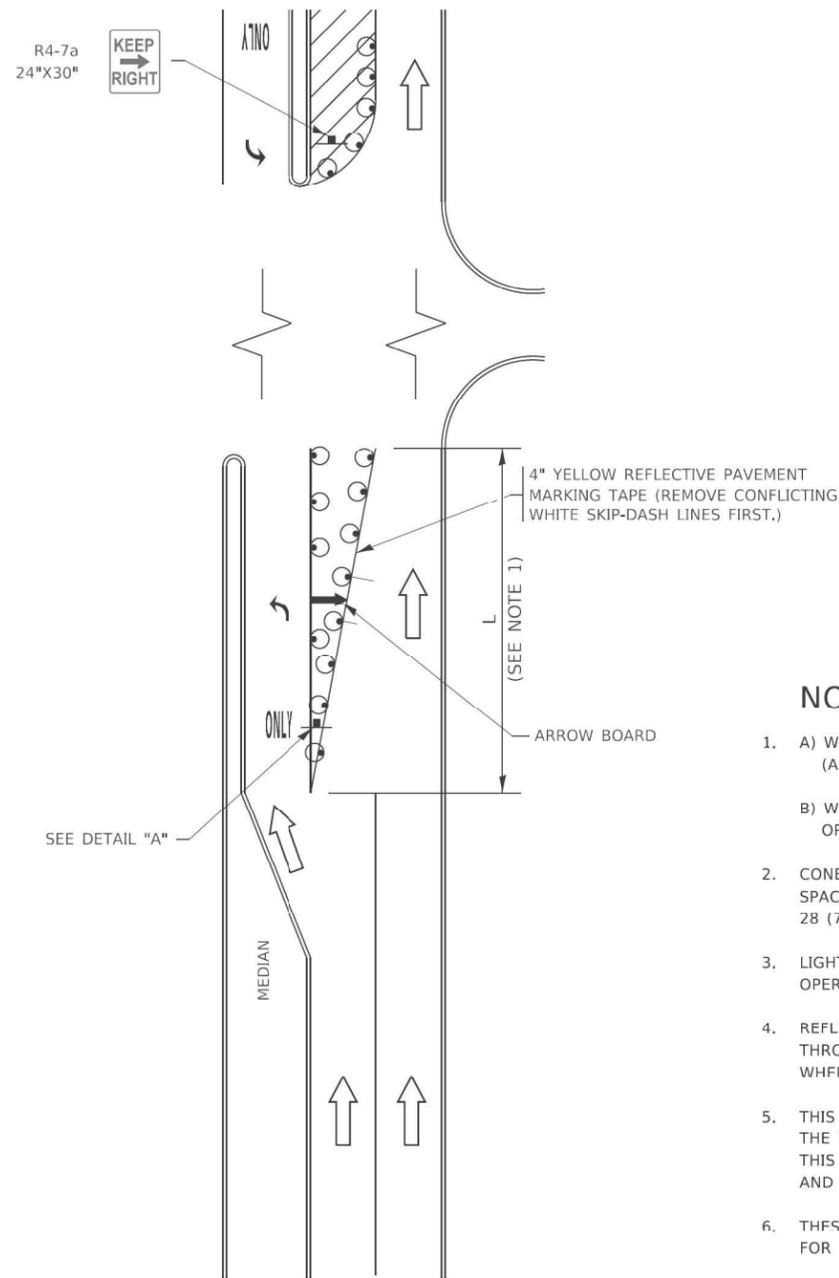
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PLOT SCALE = 50,00000 / 1	DRAWN -	REVISED - C. JUCIUS 07-01-13
PLOT DATE = 3/4/2019	CHECKED -	REVISED - C. JUCIUS 12-21-15
	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>	
<b>TYPICAL PAVEMENT MARKINGS</b>	
SCALE: NONE	SHEET 1 OF 2 SHEETS STA. TO STA.

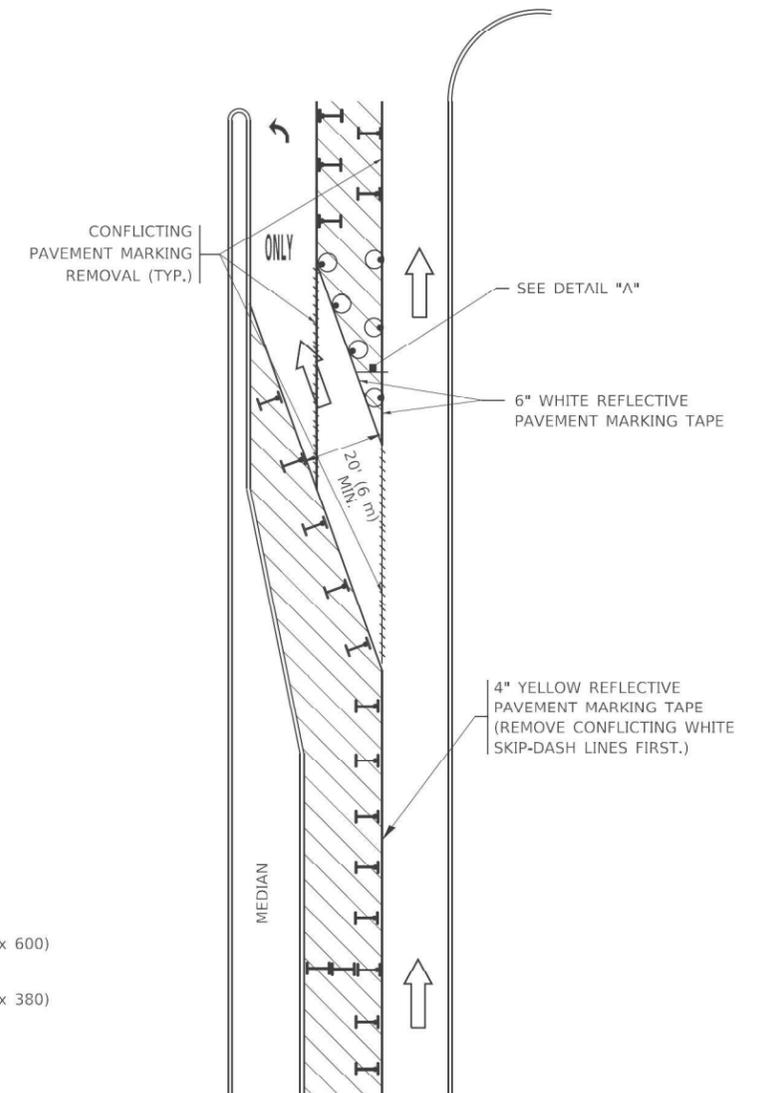
F.A.I. RTE. 290	SECTION 2020-233-BR	COUNTY COOK	TOTAL SHEETS 40	SHEET NO. 33
TC-13		CONTRACT NO. 62N03		
ILLINOIS FED. AID PROJECT				

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



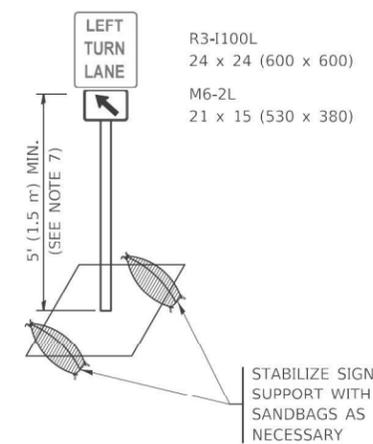
**FIGURE 2**

### LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

### NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. 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.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



**DETAIL A**

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

USER: f00vc  
 FILE: TC-14.dgn  
 FILE NAME: PLOT\_209\_000\_IDOT\_PTB\_190\_14\_Pbase II\_Voc-User-Doc-Drawn-WO\_18\_62N03-CADD-CADD\_SHEET-D162N03-PTC-dwg-D1-TC-14.dgn



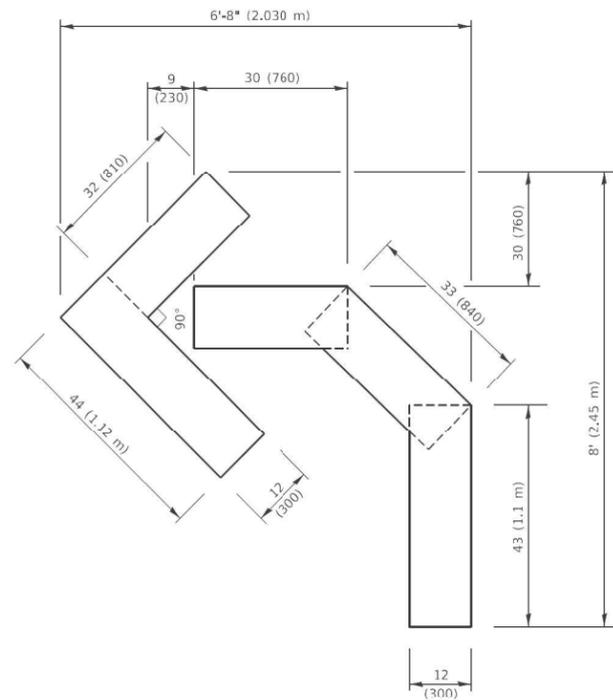
USER NAME = f00vc	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 50,0000' / 1"	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)

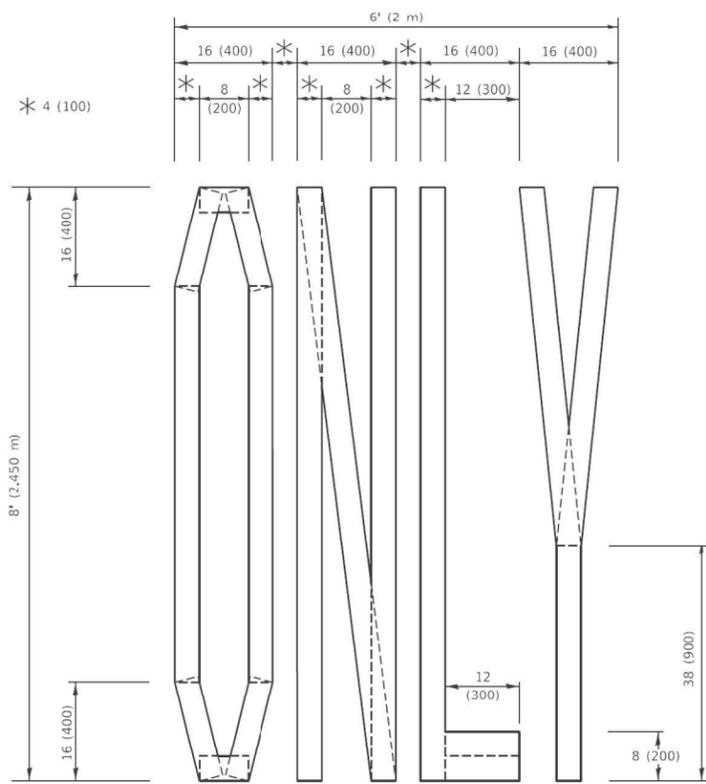
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	34
TC-14		CONTRACT NO. 62N03		
ILLINOIS FED. AID PROJECT				



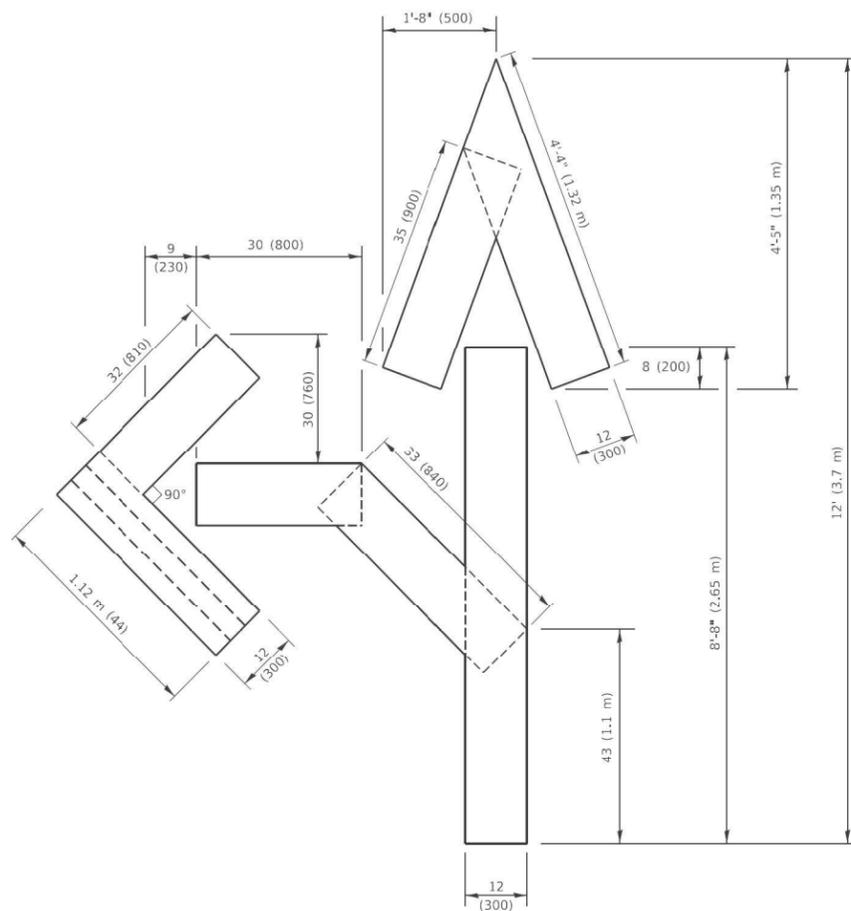
**QUANTITY**

4 (100) LINE = 45.5 ft. (13.9 m)  
15.2 sq. ft. (1.41 sq. m)



**QUANTITY**

4 (100) LINE = 64.1 ft. (19.5 m)  
21.4 sq. ft. (1.99 sq. m)

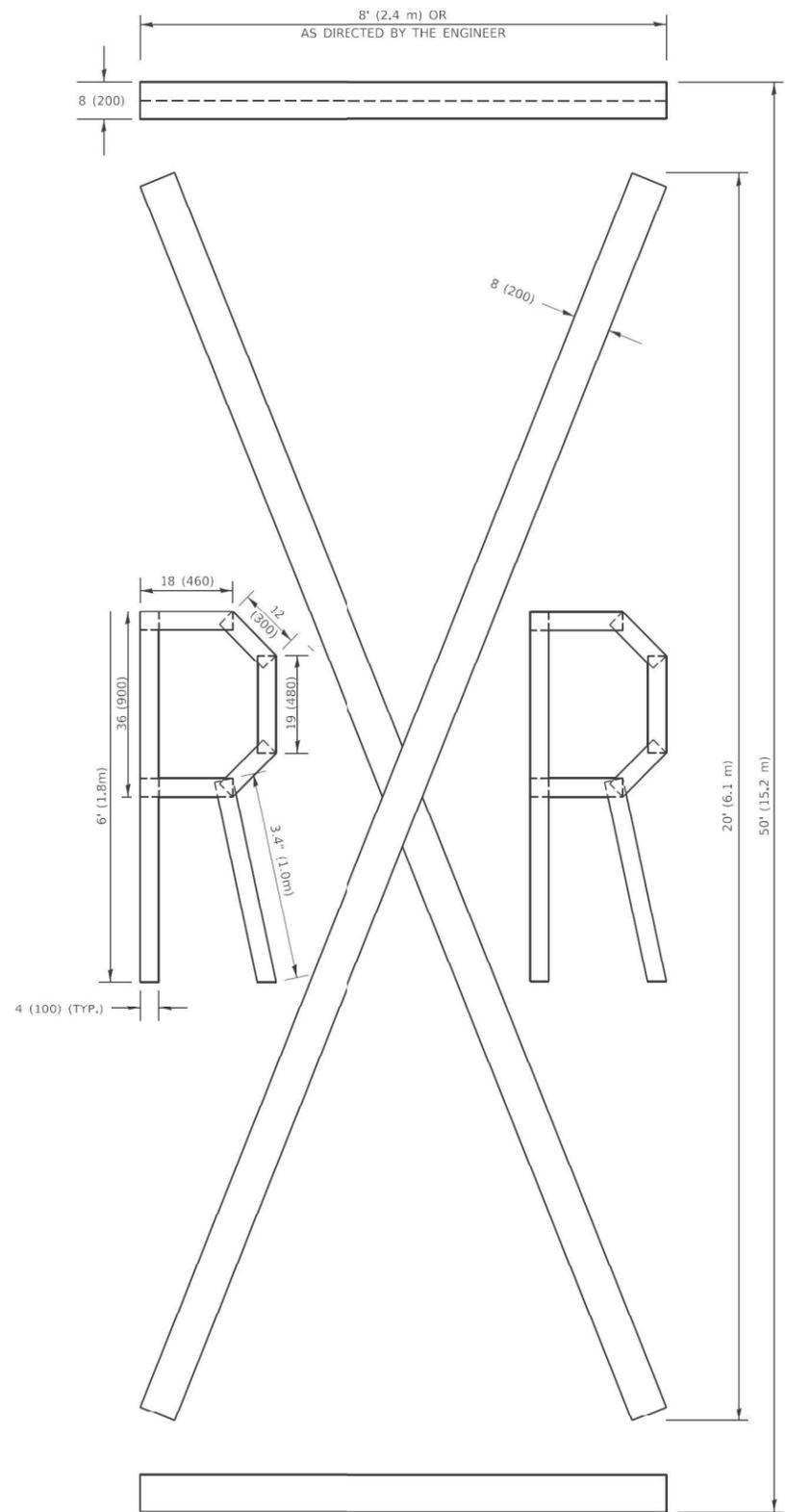


**QUANTITY**

4 (100) LINE = 82.5 ft. (25.1 m)  
27.5 sq. ft. (2.53 sq. m)

**NOTE:**

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**QUANTITY**

4 (100) LINE = 225.9 ft. (68.9 m)  
75.3 sq. ft. (6.99 sq. m)

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

USER: f04vc  
FILE: TC16.dwg  
FILE NAME: PLOT\_209\_004\_IDOT\_PTB\_190\_14\_Pbase II\_VocularDesignWG\_18\_62N03.CADD\CADD\_Sheets\162N03-PTB-dwg-D1-TC16.dwg



USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT SCALE = 50.0068 * / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

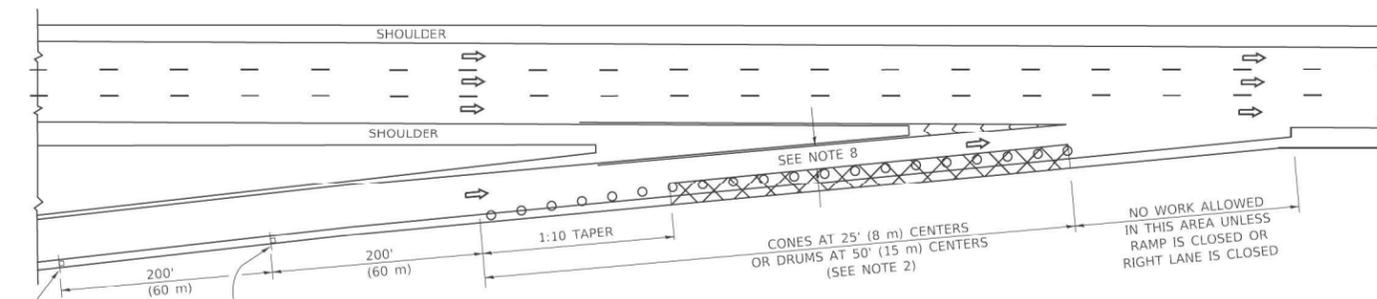
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

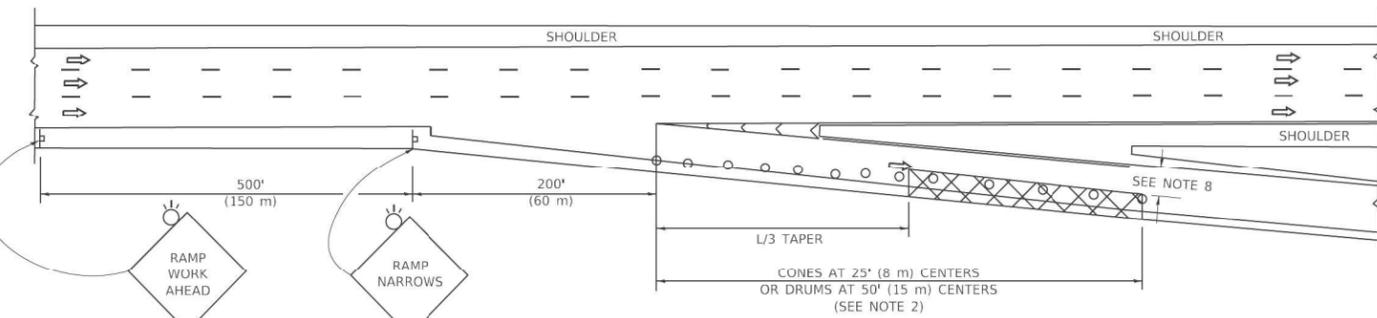
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-16			CONTRACT NO. 62N03	
ILLINOIS FED. AID PROJECT				

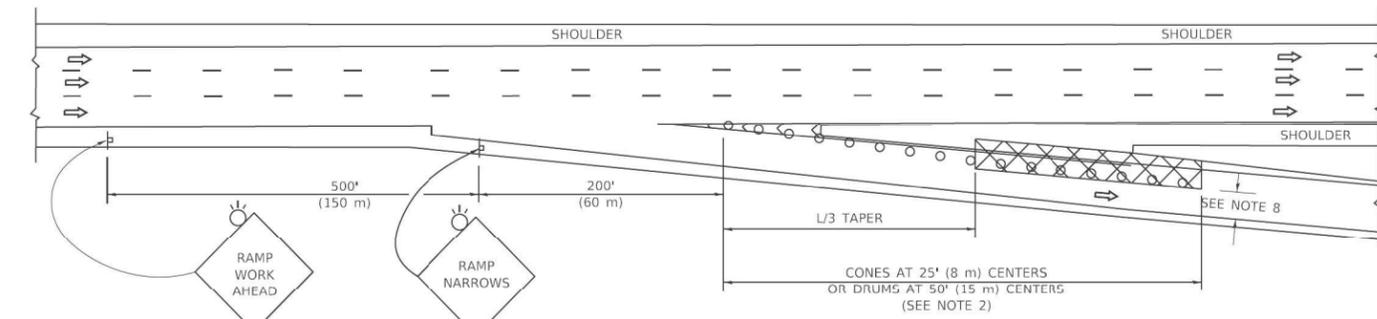
**PARTIAL RAMP CLOSURE DETAILS**



**TYPICAL ENTRANCE RAMP**



**TYPICAL EXIT RAMP**



**TYPICAL EXIT RAMP**

**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

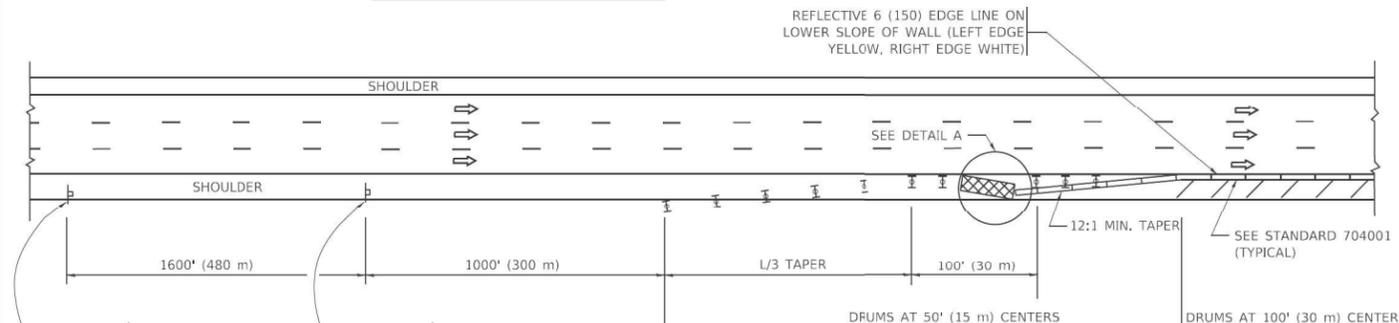
**GENERAL NOTES:**

1. THE "L" DISTANCE EQUALS:  

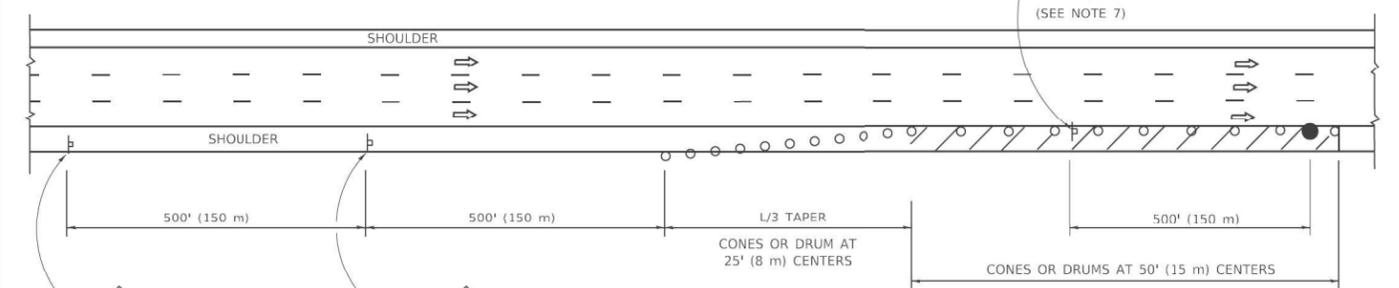
$L = \frac{S^2}{24.5}$	FORMULAS
$L = \frac{S^2}{3.7}$	METRIC
$L = \frac{S^2}{3.7}$	ENGLISH
$L = 0.65(W)(S)$	
$L = (W)(S)$	

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.

**SHOULDER CLOSURE DETAILS**

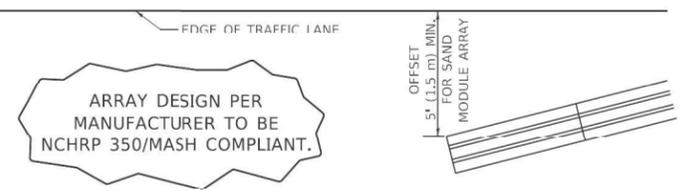


**PERMANENT SHOULDER CLOSURE**



**DAYTIME SHOULDER CLOSURE**

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



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

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 AVTIVITY REQUIRES FREQUENT ENCRDACHMENT 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.

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

USER: s09c  
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USER NAME = footemj	DESIGNED -	REVISED - S.P.B. 01-07
	DRAWN - D.W.S.	REVISED - S.P.B. 12-09
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED - M.D. 06-13
PLOT DATE = 3/4/2019	DATE - 11-96	REVISED - M.D. 01-18

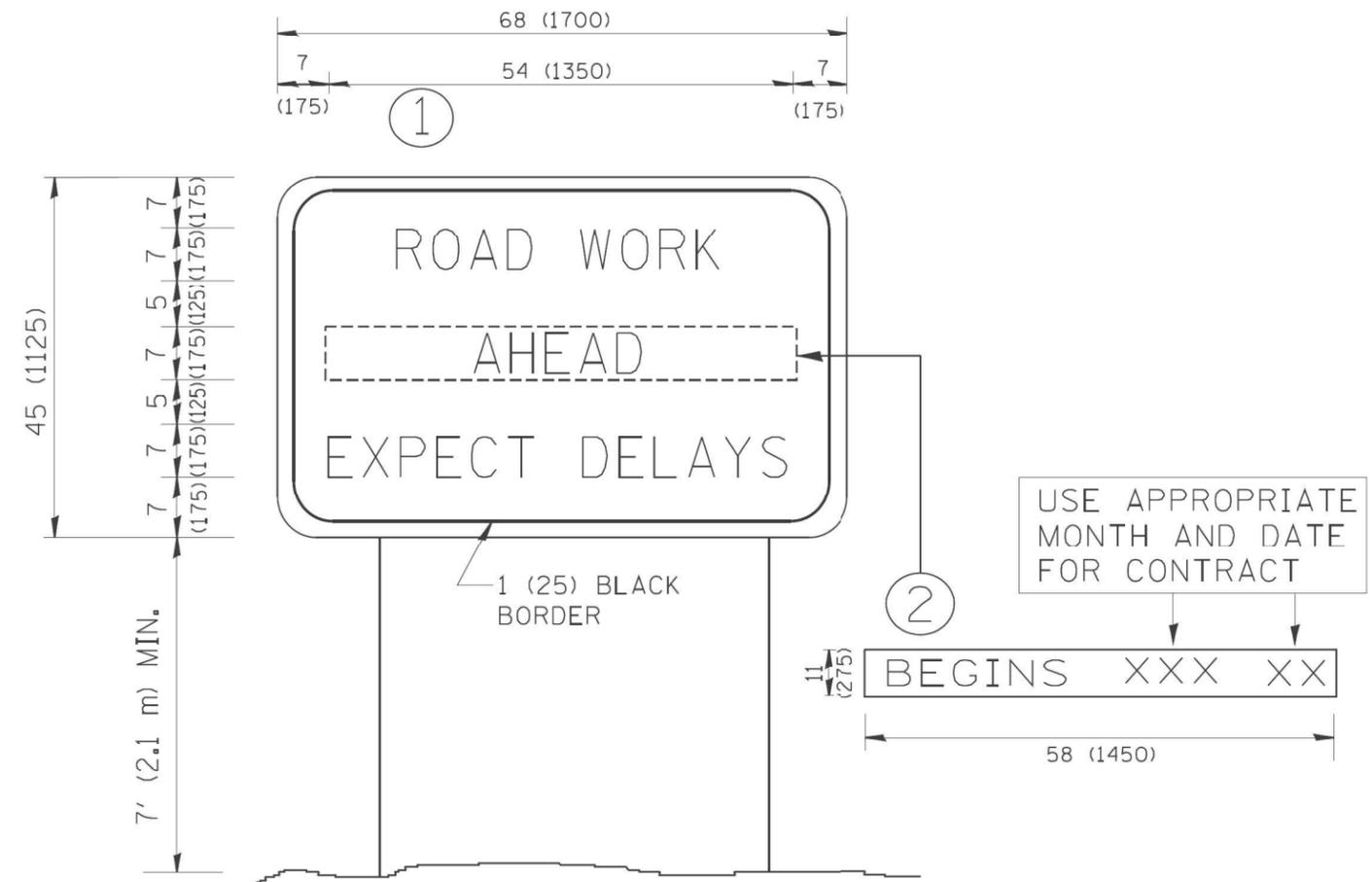
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR FREEWAY**  
**SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	36
TC-17		CONTRACT NO. 62N03		
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.

USER: f09vc  
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 FILE MODIFIED: 2/9/2008 10:04 AM



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		DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.000 ' / IN.		CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 1/4/2008		DATE -	REVISED - C. JUCIUS 01-31-07

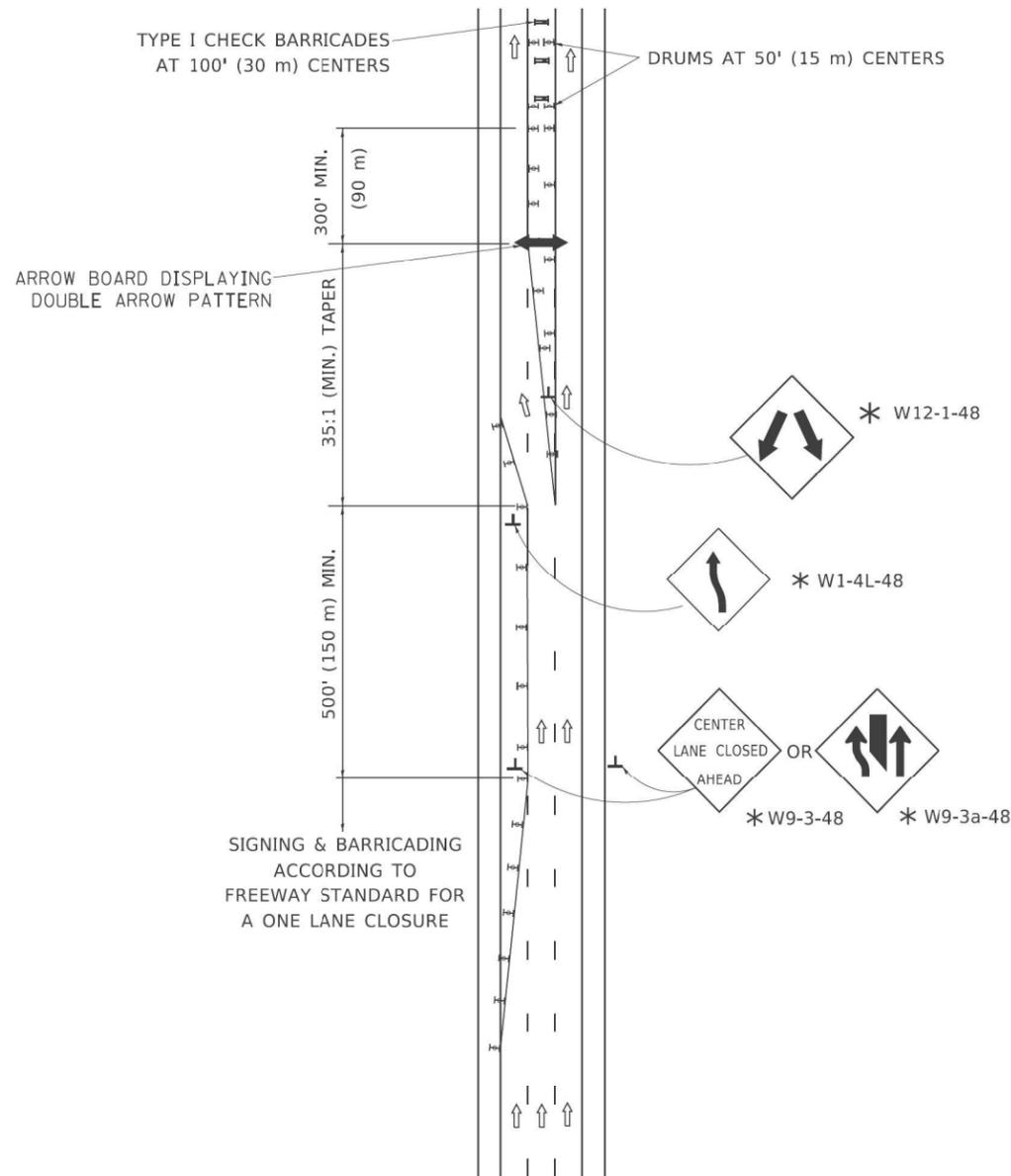
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

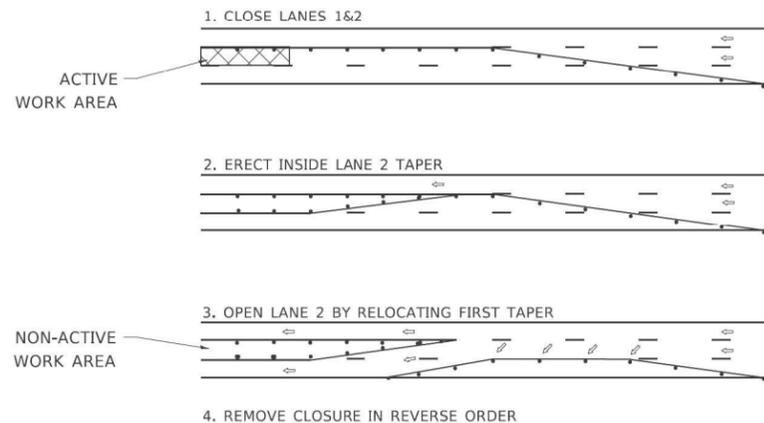
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	38
<b>TC-22</b>			CONTRACT NO. 62N03	
ILLINOIS FED. AID PROJECT				

## CENTER LANE CLOSURE



### INSTALLATION SEQUENCE



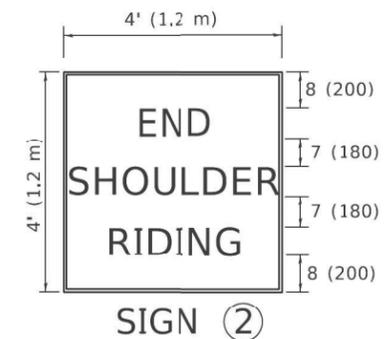
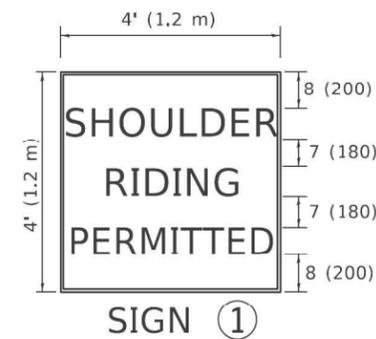
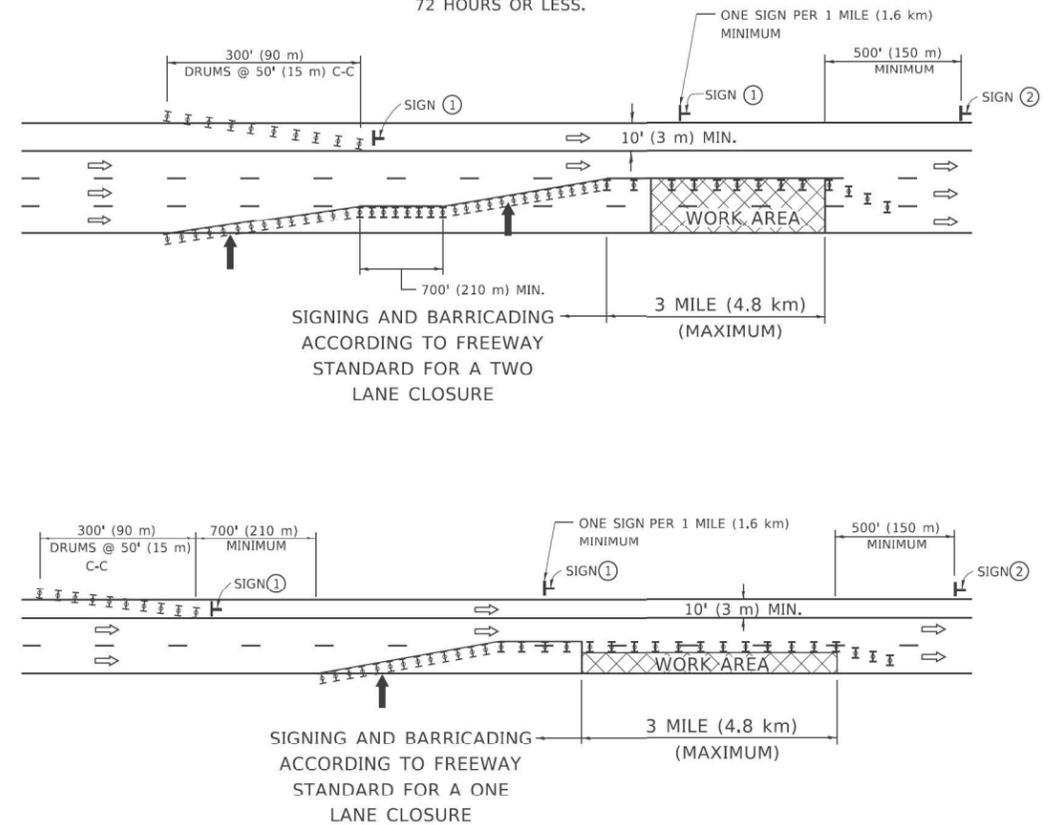
### NOTES:

1. DRUMS WITH STEADY BURN LIGHTS SHALL BE USED AT 50' (15 m) CENTERS ON ALL TAPERS AND TANGENTS IN ADVANCE OF WORK AREA.
2. CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.
3. CENTER LANE CLOSURE CONFIGURATION IS NOT TO BE USED WITH WORKERS PRESENT.

## SHOULDER LANE

### NOTE:

CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.



6 (150) SERIES "C" LEGEND  
BLACK LEGEND  
WHITE REFLECT. BACKGROUND  
1 (25) BORDER

### SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ➔ ARROWBOARD
- ▣ ACTIVE WORK AREA
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT \*
- ⊥ TYPE II BARRICADE, OR DRUM WITH MONO-DIRECTIONAL STEADY BURN LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

\* ALL SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

USER: f00vc  
FILE: TC-25.dwg  
FILE: XREF: PLOT\_209\_000.dwg, IDOT\_PTB\_190\_1.d, Phase II Vertical Design.dwg, 18\_62N03\_CADD/CADD\_SIGNED/182N03-rlt-dwg-D1-TC25.dwg



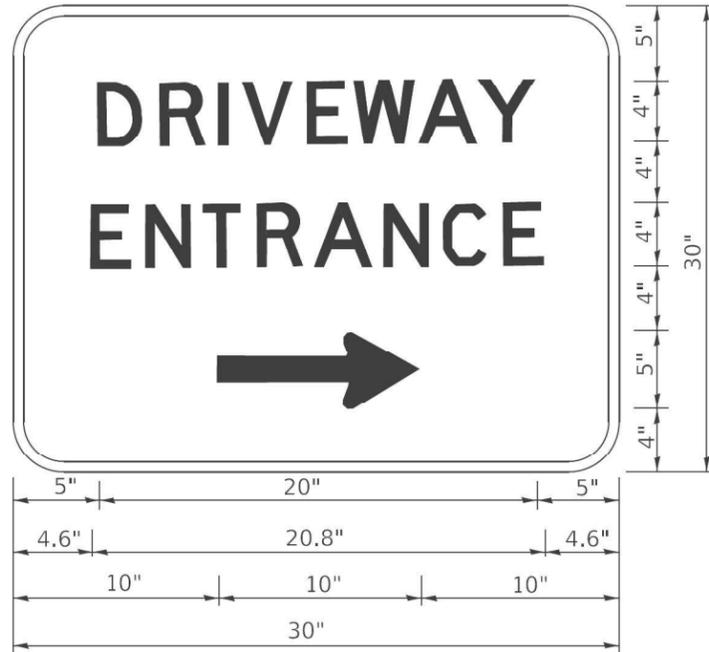
USER NAME = f00tcmj	DESIGNED -	REVISED - J.A.F. 04-03
	DRAWN -	REVISED - S.P.B. 01-07
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PLOT DATE = 3/4/2019	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY  
CENTER LANE CLOSURE SHOULDER LANE

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

F.A.I. RTE. 290	SECTION 2020-233-BR	COUNTY COOK	TOTAL SHEETS 40	SHEET NO. 39
TC-25		CONTRACT NO. 62N03		
ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED  
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

USER: s09vc  
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USER NAME = footemj	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DRIVEWAY ENTRANCE SIGNING

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2020-233-BR	COOK	40	40
TC-26			CONTRACT NO. 62N03	
ILLINOIS FED. AID PROJECT				