

PROJECT ENGINEER JOHN CLARK PROJECT MANAGER JEAN-ALIX PERALTE

CONTRACT NO.

KANE COUNTY DIVISION OF TRANSPORATION

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 336 (ORCHARD ROAD – C.H. 83) OVER I–88 TOLLWAY SECTION 11-00202-03-BR **STRUCTURE REHABILITATION KANE COUNTY**

AURORA TOWNSHIP R8E Co Hwy 15 Waterford Rd 38N Co Hwy 15 IMPROVEMENT ENDS STA. 52+59.36 Ronald Reagan Memorial Tolk Wy (Toll road) (56) IMPROVEMENT BEGINS STA. 49+55.48 PROPOSED BRIDGE REPAIR S.N. 045-3121 STATION 51+04.00 W Indian Trail W Indian Trail

N	<u>DESIGN DESIGNATION:</u> SUBURBAN SRA ROUTE	
র	TRAFFIC DATA	
	2008 AVERAGE DAILY NORTH OF PROJECT: SOUTH OF PROJECT:	TRA
•	POSTED SPEED: MOT STAGING SPEED:	

LOCATION MAP	SCALE: 1" = 1500'
GROSS LENGTH OF IMPROVEMENT:	303.88 LIN. FT. = 0.0576 MILES
EQUATIONS:	NONE
OMISSIONS:	NONE
NET LENGTH OF IMPROVEMENT:	303.88 LIN. FT. = 0.0576 MILES

JOHN CLARK, P.E. NO. 062-055684 EXP. DATE: 11/30/2013 SHEETS 1 - 14 SHEETS 22- 38

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AFFIC 23,100 41,000 50 MPH 30 MPH



"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges."

LAWRENCE KIRCHNER, P.E., S.E. ILLINOIS STRUCTURE NO. 081-005343 EXP. DATE: 11/30/2012 SHEETS 15 - 21



GENERAL NOTES - MISCELLANEOUS

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND KANE COUNTY DIVISION OF TRANSPORTATION AS SHOWN.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS. THE ENGINEER, OR AN AUTHORIZED SURVEYOR OR AGENT WILL WITNESS OR OTHERWISE REFERENCE AND RESET MONUMENTS AS NECESSARY. ALL PROPERTY CORNERS EXCEPT THOSE WITHIN AREAS WHERE THE SCHEDULE SHOWS PLACEMENT OF R.O.W. MARKERS, SHALL REMAIN UNDISTURBED.

THE CONTRACTOR, AS REQUIRED, SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING WITH CONSTRUCTION. ANY FEES SHALL BE INCLUDED IN THE COST OF MOBILIZATION.

THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH STATE OR LOCAL REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR'S OPERATIONS AND TEMPORARY STORAGE ACTIVITIES SHALL BE LIMITED TO THE WORK AREA AND/OR CONSTRUCTION LIMITS, AND THE AREA IMMEDIATELY ADJACENT TO PROPOSED CURB LINES. ANY ADDITIONAL STAGING AREAS ADJACENT TO THE PROJECT ARE SUBJECT TO PRIOR APPROVAL BY THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR COMPLIANCE WITH THE ABOVE REQUIREMENTS.

THE CONTRACTOR'S PERSONNEL SHALL NOT BE ALLOWED TO PARK PERSONAL VEHICLES IN THE WORK AREA AND/OR CONSTRUCTION LIMITS.

EXISTING RIGHT-OF-WAY LIMITS SHOWN ON THE PLANS ARE APPROXIMATE.

THE CONTRACTOR IS REQUIRED TO REPAIR AND RESTORE ANY ROADWAY APPROACH PAVEMENT THAT IS DAMAGED BY THE CONTRACTOR'S FORCES DURING THE CONSTRUCTION OF THESE PLANS AT NO ADDITIONAL COST.

GENERAL NOTES - ROADWAY

SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

REMOVAL OF EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INCLUDED IN THE COST OF BRIDGE DECK SCARIFICATION, $1^{\prime}_2^{\prime\prime}$. REMOVAL OF EXISTING RECESSED PAVEMENT MARKINGS SHALL BE INCLUDED IN THE COST OF PAVEMENT MARKING REMOVAL.

THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT HIS OWN EXPENSE.

TEN FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.

EXISTING FENCE THAT HAS BEEN DISCONNECTED AND/OR REMOVED FOR THE CONTRACTOR'S OPERATIONS OR DAMAGED BY THE CONTRACTOR SHALL BE RECONNECTED AND/OR REPLACED IN KIND AT NO ADDITIONAL COST TO THE CONTRACT.

THE BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.10 GAL. PER SO. YD.

THE REMOVAL OF ALL EXISTING CONFLICTING SIGNS AND THE INSTALLATION OF ALL PROPOSED SIGNS (AS SPECIFIED IN THE PLANS AND AS DIRECTED BY THE ENGINEER) SHALL BE PERFORMED BY THE KDOT SIGN SHOP. THE CONTRACTOR SHALL CONTACT THE ENGINEER 72 HOURS PRIOR TO THE REMOVAL OF EXISTING SIGNS AND TWO WEEKS PRIOR TO THE INSTALLATION OF ALL NEW SIGNS.

GENERAL NOTES - DRAINAGE

THE COST OF MAKING ANY CONNECTIONS TO EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.

LENGTHS AND SIZES OF STORM SEWERS AS SHOWN ON THE PLANS AND DRAINAGE STRUCTURE ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO INSTALLATION OF DRAINAGE ITEMS. ELEVATIONS OF SEWER LINES WERE DETERMINED FROM AVAILABLE AS-BUILT PLANS. THE INVERTS OF THE PROPOSED DRAINAGE STRUCTURES MAY REQUIRE REVISIONS TO MEET EXISTING FIELD CONDITIONS. ANY ADJUSTMENTS SHALL BE AS DIRECTED BY THE ENGINEER.

UNLESS OTHERWISE NOTED, ALL OFFSETS SHALL BE TO THE CENTER OF FRAMES AND GRATES, OR FRAMES AND LIDS. OFFSETS FOR CATCH BASINS WITH OPENINGS FOR TWO (2) FRAMES AND GRATES SHALL BE TO THE CENTER OF DRAINAGE STRUCTURE.

THE CONTRACTOR SHALL MAINTAIN THE SURFACE DRAINAGE OF THE ROAD DURING CONSTRUCTION OF THIS PROJECT. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, INLETS OR CATCH BASINS. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS, AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT.

ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS, CROSSROAD PIPES, OR DRAINAGE STRUCTURES DUE TO CONSTRUCTION OPERATIONS SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT.

GENERAL NOTES - UTILITIES

THE CONTRACTOR SHALL PROTECT EXISTING AND NEW UTILITIES. WHEN REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BRACE AND SUPPORT THE UTILITIES PROPERLY IN ORDER TO PREVENT SETTLEMENT, DISPLACEMENT, OR DAMAGE TO THE UTILITIES. THE PROTECTION OF THE UTILITIES AS SPECIFIED HEREIN WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE RESPECTIVE UTILITIES AND THE COUNTY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING FACILITIES SO THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS.

GENERAL NOTES - TRAFFIC CONTROL

THE CONTRACTOR WILL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED. ONE (1) WEIGHTED SAND BAG SHALL BE INSTALLED ACROSS EACH BOTTOM RAIL. ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.

FLUORESCENT VESTS AND HARD HATS: ALL CONSTRUCTION PERSONNEL WILL BE REQUIRED TO WEAR FLUORESCENT YELLOW/GREEN CONSTRUCTION VESTS CONFORMING TO ANSI CLASS 2 REQUIREMENTS AND HARD HATS AT ALL TIMES WHILE ON THE CONSTRUCTION SITE. COMPLIANCE WITH THIS REQUIREMENT SHALL BE INCLUDED IN THE CONTRACT.

THE CONTRACTOR IS ADVISED THAT IN THE EVENT OF SNOW, HE WILL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF ANY MAINTENANCE OF TRAFFIC PROTECTIVE DEVICES REQUIRED FOR HIS OPERATIONS THAT WOULD INTERFERE WITH SNOW REMOVAL OPERATIONS PERFORMED BY THE STATE OR LOCAL AGENCY.

THE CONTRACTOR SHALL NOT MOUNT SIGNS ON EXISTING SIGNS.

THE CONTRACTOR SHALL COVER ANY EXISTING SIGNS THAT CONFLICT WITH THE INTENT OF THE TRAFFIC CONTROL PLAN. EXISTING SIGNS TO BE COVERED SHALL BE DIRECTED BY THE RESIDENT ENGINEER. THE COST FOR COVERING EXISTING SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARDS 701606 AND 701701.

GENERAL NOTES - BRIDGE AND APPROACH REPAIR

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GRADE 60. SEE SPECIAL PROVISIONS.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

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 PRIOR THE WORK.

LOCATIONS OF PARTIAL AND FULL DEPTH BRIDGE DECK REPAIR AREAS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD AT THE TIME OF CONSTRUCTION. CONCRETE AREAS SHALL BE REMOVED TO THE WIDTH, LENGTH AND DEPTH REQUIRED TO REACH SOUND CONCRETE AS DETERMINED BY THE ENGINEER.

ANY MATERIAL DEPOSITED INTO DRAINAGE STRUCTURES SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

THE EXISTING BRIDGE PLANS ARE AVAILABLE AT THE KANE COUNTY DIVISION OF TRANSPORTATION, AND WILL BE MADE AVAILABLE TO CONTRACTOR UPON WRITTEN REQUEST.

CONTRACTOR IS TO PROVIDE PROTECTIVE SHIELDING TO AVOID DEBRIS FROM FALLING ONTO TOLLWAY PROPERTY. THE DESIGN OF THE SHIELD WILL BE SUBMITTED BY THE CONTRACTOR FOR REVIEW TO THE RESIDENT ENGINEER AND THE TOLLWAY. DESIGN OF PROTECTIVE SHIELDING SHALL INCORPORATE NECESSARY MAINTENANCE OF TRAFFIC PLANS FOR INSTALLATION OF PROTECTIVE SHIELDING AND SHALL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF PROTECTIVE SHIELDING.

GENERAL NOTES - TRAFFIC SIGNALS

THE COST ASSOCIATED WITH THE DISCONNECTING AND RECONNECTING OF DETECTION LOOPS, PURCHASING, PULLING, AND REMOVING OF WIRE NEEDED FOR OPERATION OF VIDEO DETECTION CAMERAS SHALL BE INCLUDED IN THE COST OF THE VIDEO VEHICLE DETECTION SYSTEM.

USER NAME = zulkowsd	DESIGNED - JAC	REVISED -			ORCHARD BOAD OVER I-88 STRUCTURE NO 045-3121				F.A.F RTF.	• SECTION	co		TOTAL S	HEET
	DRAWN - SDZ	REVISED -	KANE COUNTY	GENERAL NOTES AND STANDARDS		336	11-00202-03-BR	ĸ	ANE	38	2			
PLOT SCALE = 20.0000 '/ in.	CHECKED - JAP	REVISED -	DIVISION OF TRANSPORTATION							C-XX-XXX-XX	CO	NTRACT	NO. XX	XXX
PLOT DATE = 10/16/2012	DATE - 10-17-2012	REVISED -		SCALE: NTS SHEET NO. 2 OF 38 SHEETS STA. N/A TO STA. N/A			ILLINOIS FED. AID		ID PROJECT HSIP-XXXX (XXX)		,			

IDOT HIGHWAY STANDARDS

701606-08	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-02	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER

780001-03 TYPICAL PAVEMENT MARKINGS

KANE COUNTY HIGHWAY STANDARDS

KC781001-04 TYPICAL APPLICATIONS RECESSED REFLECTIVE PAVEMENT MARKERS

DISTRICT ONE STANDARDS

- BD-32 BUTT JOINT AND HMA TAPER DETAILS
- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- TC-14 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
- TC-16 PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

SUMMARY OF QUANTITIES

	CODE NO.	PAY ITEM	UNIT	
	35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	819
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	82
	40600300	AGGREGATE (PRIME COAT)	TON	2
	40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	98
	42001300	PROTECTIVE COAT	SQ YD	819
	44000100	PAVEMENT REMOVAL	SQ YD	819
	50102400	CONCRETE REMOVAL	CU YD	16.0
	50157300	PROTECTIVE SHIELD	SQ YD	146
	50300255		CU YD	16.0
	50300260	BRIDGE DECK GROOVING	SQ YD	2,543
	50800205	REINFORCEMENT BARS, FPOXY COATED	POUND	2.040
	50800515	BAR SPI ICERS	EACH	36
	52000110	PREFORMED JOINT STRIP SEAL	FOOT	172
	58700300		SQ FT	454
	59000200		FOOT	438
	59300100			13
	67100100			1.5
	70102025			1
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701		1
	70106800	CHANGEABLE MESSAGE SIGN	CAL MU	0
	70300100	SHORI-IERM PAVEMENT MARKING	FOOT	1499
	/0300510	PAVEMENT MARKING TAPE, TYPE III - LETTERS AND SYMBOLS	SOFI	835
	70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	43,640
	70300560	PAVEMENT MARKING TAPE, TYPE III 12"	FOOT	2,059
	70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	461
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	18,521
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	1012.5
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1050.0
Δ	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	291
Δ	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	13,000
Δ	78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	1,582
Δ	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	563
Δ	78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	161
Δ	X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	195
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	6,301
۵	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
Δ	Z0012136	BRIDGE DECK SCARIFICATION 1 1/2"	SQ YD	2,765
۵	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	10
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Δ	Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	216
۵	Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2
۵	Z0030332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2
Δ	Z0033072	VIDEO VEHICLE DETECTION SYSTEM	EACH	1
	Z	BRIDGE DECK LATEX CONCRETE OVERLAY, 1 1/2 INCHES	SQ YD	2,765
		ITEMS AS ORDERED BY THE ENGINEER	DOLLARS	200,000
		▲INDICATES SPECIALTY ITEM	1	1

-	USER NAME = zulkowsd	DESIGNED - JAC	REVISED -		ORCHARD ROAD OVER I-88 STRUCTURE NO. 045-3121		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - SDZ	REVISED -	KANE COUNTY			11-00202-03-BR	KANE	38	3
_	PLOT SCALE = 10.0000 ′ / In.	CHECKED - JAP	REVISED -	DIVISION OF TRANSPORTATION		_	C-XX-XXX-XX	CONTRACT	NO. XX	.xxx
	PLOT DATE = 10/16/2012	DATE - 10-17-2	2012 REVISED -	SC	SCALE: NTS SHEET NO. 3 OF 38 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. AI	AID PROJECT HSIP-XXXX (XXX)		,



ORCHARD ROAD OVER I-88 S	KANE COUNTY	REVISED - REVISED -	DESIGNED - SDZ DRAWN - RAB	USER NAME = zulkowsd	
EXISTING TYPICA	DIVISION OF TRANSPORTATION	REVISED -	CHECKED - JAP	PLOT SCALE = 8.0000 ' / in.	
SHEET NO. 4 OF		REVISED -	DATE - 10-17-2012	PLOT DATE = 10/16/2012	

G F S A S C C	GENERAL NOTES: FOR BRIDGE DECK TYPICAL SECTIONS SEE PLAN SHEET 15 SHOULDERS WILL BE REMOVED AND REPLACED AS DIRECTED BY ENGINEER. REPLACEMENT OF SHOULDER WILL BE REQUIRED FOR DAMAGED DONE TO SHOULDERS CAUSED FROM THE CONSTRUCTION AND TRAFFIC STAGING PLANS.						
S S (/	SOME QUANTITES HAVE BEEN ADDED TO THE SUMMARY OF QUANTITES SHEET IN ANTICIPATION OF SOME SHOULDER WORK BEING REQUIRED. (APPRX. 30% OF UTILIZED SHOULDER AREA)						
TRUCTURE NO. 045–3121	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
L SECTION	330	C-XX-XXX-XX	CONTRACT	NO. X	XXXX		
38 SHEETS		ILLINOIS FED. AID PROJECT HSIP-XXXX (XXX)					



USER NAME = zulkowsd DESIGNED - JAC REVISED ORCHARD ROAD OVER I-88 S **KANE COUNTY** DRAWN SDZ REVISED ALIGNMENTS, TIES ANI PLOT SCALE = 300.0000 '/ in. CHECKED JAP REVISED **DIVISION OF TRANSPORTATION** SCALE: 1" = 150' SHEET NO. 5 OF 38 SHEETS PLOT DATE = 10/16/2012 DATE 10-17-2012 REVISED

Т	TRUCTURE NO. 045–3121					SECTION		COUNTY	SHEETS	NO.
D BENCHMARKS						11-00202-03-	BR	KANE	38	5
B BEItonin/tilko						C-XX-XXX-XX		CONTRA	CT NO. X	XXXX
	STA.	32+23.86	TO STA.	72+40.72		ILLIN	DIS FED. A	ID PROJECT H	ISIP-XXXX (X)	(X)



GENERAL NOTES FOR TRAFFIC CONTROL:

- All the traffic control devices shall conform to the Traffic Control plans or the latest edition of the "Manual of Uniform Traffic Control Devices for Streets and Highways" and the Standard Specifications for Road and Bridge Construction Section 700 WORK ZONE TRAFFIC CONTROL, SIGNING AND PAVEMENT MARKING and shall be in place before removal for each stage is started.
- 2. The traffic control plans shall serve as a guide for safe diversion of traffic during execution of this Contract. However, the Contractor may improve or modify the traffic control plans for his/her construction needs but not at the expense of public safety or convenience. Any Contractor-proposed traffic control plans shall be submitted for the written approval of the Engineer.
- 3. A minimum of two 11'-0" lanes in each direction over the bridge shall be available to through traffic at all times. Additionally, a minimum of 1'-0" of shoulder shall be maintained at all times on either side of traveled way
- 4. The type, number, location and spacing of all signs and traffic control devices shall be according to the maintenance of traffic plans and Highway Standards 701606-08, 701701-08, and 701901-02 and may be adjusted to fit field conditions as directed by the Engineer at no additional cost to the Contract.
- 5. All signs shall be post mounted.
- 6. All temporary pavement marking tape shall be Type III.
- 7. Existing pavement markings in conflict with the temporary pavement markings for traffic control and protection shall be removed.
- 8. Speed limit through construction area shall be reduced to 30 MPH down from the existing posted speed limit of 50 MPH.
- 9. The Contractor shall not mount construction traffic control signs on existing signs.
- 10. An item and estimated quantity has been included for permanent paint pavement markings and replacement of paved shoulder. Permanent pavement markings and replacement of paved shoulder will be constructed only if approved by the Engineer.
- 11. Temporary traffic controls shall be in place at the beginning of each stage as shown on the plans, including necessary traffic signal modifications
- 12. Short term pavement markings shall be used as necessary at the direction of the engineer. Estimated quantities has been included for this work.

NARRATIVE FOR TRAFFIC CONTROL STAGES:

Two weeks prior to construction, contractor shall place changeable message boards beyond the northern and southern limits of the project. Message displayed on message boards shall be approved by the engineer.

<u>Stage I Traffic</u>

Traffic shall shift to the west to avoid the work zone on the east side of the bridge. Traffic lanes shall be a minimum of 11' wide on Orchard Road. <u>Stage I Construction</u>

The 1 1/2" of bridge deck scarification and latex overlay shall be constructed on the eastern third (28') of the bridge deck and approach slabs. This includes repairs needed at the expansion joints.

<u>Stage II Traffic</u>

Northbound traffic shall shift to the east, while southbound traffic shall shift to the west to avoid the work zone on the center of the bridge. Traffic lanes shall be a minimum of 11' wide on Orchard Road. <u>Stage II Construction</u>

The 11/2" of bridge deck scarification and latex overlay shall be constructed on the center third (28') of the bridge deck and approach slabs. This includes repairs needed at the expansion joints.

<u>Stage III Traffic</u>

Traffic shall shift to the east to avoid the work zone on the west side of the bridge. Traffic lanes shall be a minimum of 11' wide on Orchard Road. Stage III Construction

The 1 1/2" of bridge deck scarification and latex overlay shall be constructed on the western third (28') of the bridge deck and approach slabs. This includes repairs needed at the expansion joints.

After bridge repairs have been completed, restoration of signal actuation and permanent pavement markings shall be restored. Additionally, evaluation and replacement of paved shoulders shall be completed as directed by the engineer.

TRUCTURE NO. 045–3121						SECT	ION	COUNTY	TOTAL SHEETS	SHEET NO.
					336 11-00202-03-BR			KANE	38	6
UN DETAILS					C-XX-XXX-	xx	CONTRACT	NO. X	XXXX	
	STA.	N/A	TO STA.	N/A			ILLINOIS FED. A	ID PROJECT HSIF	-xxxx (xx	X)





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١N	ID TRAFFIC CONTR	OL – STAGE 2	336	11-00202-03	-BR	KANE	38	8
_				C-XX-XXX-XX		CONTRACT	NO. X	XXXX
	STA. 39+02.15 TO	STA. 62+00.00		ILLIN	OIS FED. A	ID PROJECT HSIP	-xxxx (x)	(X)



ND TRAFFIC CONTROL – STAGE 3		336	11-00202-03-BR			KANE	Ξ	38	9			
_					C-XX-XXX-	XX		CONTE	RACT	NO.	XXXX)
	STA. 39+02.	15 TO STA.	62+00.00			ILLINOIS	FED. A	AID PROJECT	HSIP	-xxxx (XXX)	
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-		SCALE: 1" = 20'	SHEET NO. 13 OF 38 SHEE



PLOT DATE = 10/16/2012

DATE

10-17-2012

REVISED

TRUCTURE NO. 045–3121					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHEDULE OF QUANTITIES					336	11-00202-03-BR	KANE	38	14
CHEDOLE OF BOAMTHES				C-XX-XXX-XX	CONTRACT	NO. X	XXXX		
	STA.	N/A	TO STA.	N/A		ILLINOIS FED. A	D PROJECT HSIP	-xxxx (xx	X)

SCALE: 1" = 20' SHEET NO. 14 OF 38 SHEETS

SCOPE OF WORK

(In order of sequence)

- 1. Remove top l_2^{l} " of existing concrete wearing surface.
- 2. Remove existing expansion joints.
- 3. Apply Concrete Sealer to existing abutment seats.
- 4. Install strip seal joints and concrete at joints.
- 5. Perform all partial depth deck repairs.
- 6. Place l_2^{\prime} latex modified concrete overlay.

7. Perform Structural Repair of Concrete on bridge parapets.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	CU YD	16
Protective Shield	SQ YD	146
Concrete Superstructure	CU YD	16
Bridge Deck Grooving	SQ YD	2,543
Reinforcement Bars, Epoxy Coated	POUND	2,040
Bar Splicers	EACH	36
Preformed Joint Strip Seal	FOOT	172
Concrete Sealer	SQ FT	454
Epoxy Crack Injection	FOOT	438
Controlled Low-Strength Material	CU YD	1.3
Bridge Deck Latex Concrete Overlay, 1½ Inches	SQ YD	2,765
Bridge Deck Scarification, 1 ^I 2 Inches	SQ YD	2,765
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	SQ FT	10
Deck Slab Repair (Partial)	SQ YD	216



IDOT 2012 Standard Specifications for Road and Bridge Construction

LOADING

HS20-44

DESIGN STRESSES

<u>FIELD UNITS</u>

f'c= 3,500 psi fy= 60,000 psi (Reinforcement)



CROSS SECTION

(Existing)





PLAN

USER NAME = zulkowsd	DESIGNED - MJK	REVISED -		ORCHARD ROAD OVER I-88 STRUCTURE NO. 045-3121	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
PLOT SCALE - 22 0000 / /	DRAWN - MJK	REVISED -	DIVISION OF TRANSPORTATION	GENERAL PLAN AND SECTION		11-00202-03-BR	KANE	38	15
PLOT DATE = 10/16/2012	DATE - 10-17-2012	REVISED -		SHEET NO. 15 OF 38 SHEETS		C-XX-XXX-XX ILLINOIS FED. AI	L CONTRACT	T NO. X	XXXX x)

—∉ Orchard Road



PLOT DATE = 10/16/2012

DATE

10-17-2012

REVISED

SHEET NO. 16 OF 3

t.	ITEM	UNIT	QUANTITY
	Concrete Removal	CU YD	16
	Protective Shield	SQ YD	146
r	Bridge Deck Grooving	SQ YD	2,543
	Concrete Sealer	SQ FT	454
	Epoxy Crack Injection	FOOT	438
ions.	Controlled Low Strength Material	CU YD	1.3
	Bridge Deck Latex Concrete Overlay, 1 ¹ 2 Inches	SQ YD	2,765
	Bridge Deck Scarification, 1 ^I 2 Inches	SQ YD	2,765
	Deck Slab Repair (Partial)	SQ YD	216

TRUCTURE NO. 045–3121 AND BILL OF MATERIAL		SECT	SECTION		COUNT	Υ	TOTAL SHEETS	SHEET NO.
		11-00202-03-BR		KANE		38	16	
		C-XX-XXX-	xx		CONTR	ACT	NO. X	XXXX
8 SHEETS			ILLINOIS	FED. A	ID PROJECT	HSIP	-XXXX (XX	X)



USER NAME = zulkowsd	DESIGNED - RAB	REVISED -		ORCHARD ROAD OVER I-88 STRUCTURE NO. 045-3121	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	DRAWN - RAB	REVISED -		DECK REPAIR DETAILS	336	11-00202-03-BR	KANE	38	17
PLOT SCALE = 32.0000 ' / in.	CHECKED - JAN	REVISED -	DIVISION OF TRANSPORTATION			C-XX-XXX-XX	CONTRAC	.T NO. X	XXXX
PLUI DATE = 10/16/2012	DATE - 10-17-2012	REVISED -		SHEET NO. 17 OF 38 SHEETS		ILLINOIS FED.	AID PROJECT HS	IP-XXXX (X)	.x)



INSIDE ELEVATION OF EAST PARAPET

(Looking East, Both Spans)



INSIDE ELEVATION OF WEST PARAPET



INSIDE ELEVATION OF WEST PARAPET

(Looking West, South Span)

Structural Repair o

USER NAME = zulkowsd	DESIGNED - MJK	REVISED -	 ORCHARD ROAD OVER I-88 STRUCTURE NO. 045-3121	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 5.3333 1/ Jp.	DRAWN - MJK CHECKED - JAN	REVISED -	PARAPET REPAIRS	336	11-00202-03-BR	KANE	38	18
PLOT DATE = 10/16/2012	DATE - 10-17-2012	REVISED -	SHEET NO. 18 OF 38 SHEETS		ILLINOIS FED. A	ID PROJECT HS	I NO. X	x)

<u>NOTES</u>

See Sheet 17 for proposed parapet repair details.
 See Sheet 18 for strip seal joint in parapets at expansion joints.

<u>LEGEND</u>

- -Structural Repair of Concrete
- -Concrete Removal

<u>BILL OF MATERIAL</u>

ITEM	UNIT	QUANTITY
f Concrete (Depth Equal to or Less Than 5 Inches)	SQ FT	10



PLOT DATE = 10/16/2012 DATE 10-17-2012 REVISED

SHEET NO. 19 OF

For	one ex,	oansion	joint repl	acement
Bar	No.	Size	Length	Shape
a(E)	4	#5	28'-0"	
a1(E)	4	#5	28'-7"	
a2(E)	4	#5	28'-0"	
a3(E)	2	#5	28'-7"	
a4(E)	4	#5	28'-0"	
a5(E)	3	#5	28'-0"	
a6(E)	2	#6	4'-0"	
b(E)	85	#5	2'-4"	
d(E)	4	#4	3'-0"	·
d1(E)	4	#5	2'-7"	\sim
d2(E)	4	#5	3'-0"	· · · · · ·
d3(E)	4	#4	4'-0"	
h(E)	4	#6	28'-0"	
h1(E)	2	#6	28'-0"	
Reinfo	rcement		1020	
Ероху	Coated	1.0000	1,020	
Concre	te		80	
Supers	structure	;		0.0

al of both expansion j	joints.
------------------------	---------

TRUCTURE NO. 045–3121	F.A.P. RTE	SECTION			COUNT	Y	TOTAL SHEE SHEETS NO.	
EDAIR DETAILS	336	11-00202	KANE		38	19		
		C-XX-XXX-	XX		CONTR	ACT	NO. X	XXXX
8 SHEETS			ILLINOIS F	ED. A	ID PROJECT	HSIP	-xxxx (x)	(X)



USER NAME = zulkowsd	DESIGNED - RAB	REVISED -		ORCHARD ROAD OVER I-88 STRUCTURE NO. 045-3121	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - RAB	REVISED -	KANE COUNTY	STRIP SEAL DETAILS		11-00202-03-BR	KANE	38	20
PLOT SCALE = 0.6667 '/ in.	CHECKED - JAN	REVISED -	DIVISION OF TRANSPORTATION	STRIP SEAL DETAILS C-XX-XXX-XX					XXX
PLOT DATE = 10/16/2012	DATE - 10-17-2012	REVISED -		SHEET NO. 20 OF 38 SHEETS		ILLINOIS FED. AI	D PROJECT HSIP	*-XXXX (XX))

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of l_4 .''. The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the County.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments shall be ${}^{3}_{6}$ '', sealed with a suitable sealant. Joints in rails at stage lines and within 10 ft of curbs shall be welded.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	FOOT	172



STANDARD BAR SPLICER ASSEMBLY

		Minin	num Lap Len	gths		
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5''	1'-11''	2'-1''	2'-4''	2'-7''	2'-11''
5	1'-9''	2'-5''	2'-7''	2'-11''	3'-3''	3'-8''
6	2'-1''	2'-11''	3′-1′′	3'-6''	3′-10′′	4'-5''
7	2'-9''	3'-10''	4'-2''	4'-8''	5'-2''	5′-10′′
8	3′-8′′	5′-1′′	5′-5′′	6'-2''	6'-9''	7'-8''
9	4'-7''	6'-5''	6'-10''	7'-9''	8'-7''	9'-8''

Table 1: Black bar, 0.8 Class C

Table 2:Black bar, Top bar lap, 0.8 Class CTable 3:Epoxy bar, 0.8 Class CTable 4:Epoxy bar, Top bar lap, 0.8 Class C

Table 5: Epoxy bar, Class CTable 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. Iap length + $1_2^{\prime\prime}$ + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar	No. assemblies	Table for minimum
Ebeanon	size	required	lap length
N. Expansion Joint	#5	14	Table 4
S. Expansion Joint	#5	14	Table 4
N. Expansion Joint	#6	4	Table 4
S. Expansion Joint	#6	4	Table 4



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



USER NAME = zulkowsd	DESIGNED - RAB		REVISED -		ORCHARD ROAD OVER 1_88 STRUCTURE NO 045_3121	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	HEET
	DRAWN - RAB		REVISED -	KANE COUNTY		336	11-00202-03-BR	KANE	38	21
PLOT SCALE = 0.1667 ' / in.	CHECKED - JAN		REVISED -	DIVISION OF TRANSPORTATION	DAN SPLIGEN ASSEMIDLY AND MEGHANNICAL SPLIGEN DETAILS	_	C-XX-XXX-XX	CONTRACT	T NO. XXX	XXX
PLOT DATE = 10/16/2012	DATE - 10-17-	7-2012	REVISED -		SHEET NO. 21 OF 38 SHEETS		ILLINOIS FED.	AID PROJECT HSIF	P-XXXX (XXX)	



<u>NOTES</u>

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.



SIGN SP	ACING
Posted Speed	Sign Spacing
55	500′ (150 m)
50-45	350′ (100 m)
<45	200′(60 m)

SYMBOLS

- Arrow board
- Cone, drum or barricade Ο
- Sign on portable or permanent support

Work area

- Barricade or drum with flashing light Φ
- °L Type III barricade with flashing lights
- ۲ Flagger with traffic control sign.

- (1) Refer to SIGN SPACING TABLE for distances.
- (2) Required for speeds > 40 mph.
- (3) Use flagger sign only when flagger is present.
- (4) For approved sideroad closures.
- (5) Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- (6) Cones, drums or barricades at 20′(6 m) centers in taper.
- (7) Repeat every 1 mile (1.6 km).

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one or more traffic lanes in an Urban area.

Calculate L as follows:

SPEED LIMIT

or less:

FORMULAS English (Metric) $L = \frac{WS^2}{150}$

 $L = \frac{WS^2}{60}$

L=(W)(S)

L=0.65(W)(S)

45 mph (80 km/h) or greater:

40 mph (70 km/h)

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

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



STANDARD 701606–08





This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

FORMULAS English (Metric) $L = \frac{WS^2}{150}$ $L = \frac{WS^2}{60}$

L=0.65(W)(S)

URBAN LANE CLOSURE, MULTILANE INTERSECTION

STANDARD 701701–08





DRUM



VERTICAL BARRICADE

GENERAL NOTES

All heights shown shall be measured above the pavement surface.

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

TRAFFIC CONTROL DEVICES

(Sheet 1 of 3)

STANDARD 701901–02



FLAGGER TRAFFIC CONTROL SIGN

R	ОA	D
CONST	RU	CTION
NEXT	Х	MILES



G20-1(0)-6036

G20-2a(0)-6024

This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multilane highways.

WORK LIMIT SIGNING

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



(Sheet 2 of 3)

STANDARD 701901–02











(Sheet 1 of 2)







The space between adjacent letters or numerals should be approximately 3 (75) for 6' (1.8 m) legend and 4 (100) for 8' (2.4 m) legend.

LETTER AND ARROW GRID SCALE

Right lane drop arrow shown. Use mirror image for left lane.

Small size: urt Large size: ru

20′ (6 m): urban 50′ (15 m): rural

USER NAME = zulkowsd	DESIGNED - JAC	REVISED -		KANE COUNTY TYPICAL RECESSED REFLECTIVE RATE. SE PAVEMENT MARKERS 336 11-002		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
	DRAWN - SDZ	REVISED -	KANE COUNTY			11-00202-03-BR	KANE	38	32				
PLOT SCALE = 2:0.0000 ':' / in.	CHECKED - JAP	REVISED -	DIVISION OF TRANSPORTATION	DIVISION OF TRANSPORTATION						C-XX-XXX-XX	CONTRAC	T NO. X	XXXX
PLOT DATE = 10/16/2012	DATE - 10-17-2012	2 REVISED -		SCALE: NTS SHEET NO.32 OF 38 SHEETS STA. N/A TO STA. N/A IILLINOIS FED. AID PRO				AID PROJECT HSI	P-XXXX (XX	x			

PAGE	Typical
1	Recessed Reflelective
	Pavement Markers
	Standard KC781001-04
0F 2	Rev. 11/15/2008

AND ETAILS		F.A. <mark>P.</mark> RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.	
		336	11-00202	2-03-BR	KANE	38	34	
			BD400-05	BD32	CONTRACT	NO.		
	STA.	TO STA.	FED. RO	DAD DIST. NO. 1	ILLINOIS FED.	AID PROJECT		

THE ROAD THE RO
TRAFFIC CONTROL AND PROTECTION FOR
NOTES: A. <u>FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS</u> 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:
ONE ROAD CONSTRUCTION AHEAD SIGN 36 × 36 (900×900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
D) 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 × 48 (1.2 m × 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
b) 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.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

FILE NAME =	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95	· · · · · · · · · · · · · · · · · · ·		TRAFFIC CONTROL AND PROTECTION FOR	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
W:\diststd\22x34\tc10.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96	STATE OF ILLINOIS			336	11-00202-03-BR	KANE	38	35
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96	DEPARTMENT OF TRANSPORTATION		SIDE RUADS, INTERSECTIONS, AND DRIVEWATS		TC-10	CONTRACT	NO.	
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		

SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

в.	FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
	USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC
	CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD).
	THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD
	CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW
	SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE
	SIDE ROAD LANE CLOSURE.

- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions	are in	millimeters	(inches)
unless otherw	ise sh	own.	

PLOT DATE = 9/9/2009

DATE

03-19-90

REVISED

SCALE: NONE SHEET NO. 1 OF 1 SHEETS

LINE	PATTERN	COLOR	SPACING / REMARKS
	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	SOLID	YELLOW	11 (280) C-C
	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
WAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
BEING	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
JLL (4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH: 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
	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.
	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESINED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
Ή ALS	SOLID	YELLOW:	11 (280) C-C FOR THE DOUBLE LINE
JSED FOR MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
(300)	SOLID	WHITE	DIAGONALS: 15'(4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20'(6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30'(9 m) C-C (0VER 45MPH (70 km/h))
/ERSE 6' (1.8 m) 0)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "X"=3.6 SO. FT. (0.33 m ²) EACH "X"=54.0 SO. FT. (5.0 m ²)
	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 (0VER 45MPH (70 km/h))

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

DNE MARKINGS		F.A. RTE	P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.			
		336	36 11-00202-03-BR			KANE	38	36		
				TC-13			CONTRACT	NO.		
	STA.	TO STA.	FED.	ROAD DI	ST. NO. 1	ILLINOIS F	ED. AI	D PROJECT		

		F. A. P. RTE.	F. A. P. RTE.		COUNTY	TOTAL SHEETS	SHEET NO
		336	11-00202-03	-BR	KANE	38	37
		STA.	N/A	TO	STA. N/	Α	
		FED. F	ROAD DIST. NO.	ILLINDIS	FEC	. AID PROJECT	
	TURN	R 3-I100L	600 × 6	00 (24	4 x 24)		
т							
Ī		M6-2L 53	0 × 380 (21 × 1	(5)		
ż				ПСЫТ	r		
W C		OF FIGHAL	LASHING	LION			
с 2	-	STANDAR	702001				
1.5		DRUM FIL	LED WITH	ENOUC	GH TA TRON		
		SAND (BA	GSI FUR S	IABILI	ZATION		

GENERAL NOTES

- 1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 710 (28) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 1.5 m (5').
- 2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
- 4. 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" R3-100 600 × 600 (24 × 24) AND M6-2R 530 × 380 (21 × 15) SHALL BE USED.
- 5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
- 7. FORM BT 725 IS REQUIRED.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

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

	REVISIONS						
	NAME	DATE					
Τ.	RAMMACHER	09/08/94					
Α.	HOUSEH	11/07/95					
Α.	HOUSEH	10/12/96					
Τ.	RAMMACHER	01/06/00					

SCALE: NONE DATE: 10/18/2002

DRAWN BY

CHECKED BY LHA TC-14

REVISION DATE:01/06/00

QUANTITY 100 (4) LINE = 13.9 m (45.5 ft.) 1.39 sq. m (15.2 sq. ft.)

800 (30)

230 (9)

 Δ_{90}

1:12 m (2)

F. A. P. RTE.	F. A. P. RTE. SECTION			COUNTY	TOTAL SHEETS	SHEET NO
336	36 11-00202-03-BR		KANE		38	38
sta. N/A			TO :	5TA . N/ /	4	
FED. ROAD DIST. NO.		ILLING	1 5	FEC	AID PROJECT	

QUANTITY 100 (4) LINE = 25.3 m (82.5 ft.) 2.53 sq. m (27.5 sq. ft.)

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

REVISIONS						
NAME	DATE					
T. RAMMACHER	09/18/94					
J. OBERLE	06/01/96					
T. RAMMACHER	06/05/96					
T. RAMMACHER	11/04/97					
T. RAMMACHER	03/02/98					
E. GOMEZ	08/28/00					

SCALE: NONE DATE 10/18/2002 DRAWN BY CADD

CHECKED BY TC-16

REVISION DATE:08/28/00