09-22-2023 LETTING ITEM 014

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	1
	ILLINOIS	CONTRACT NO. 62T08		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

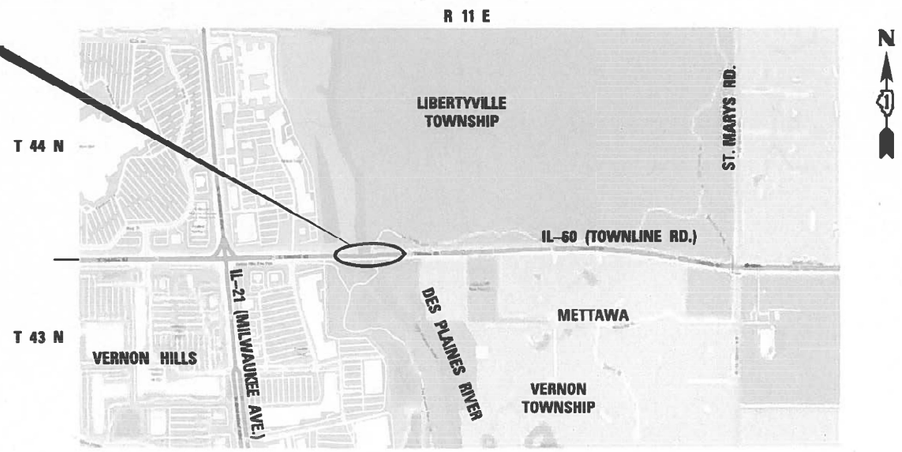
FAP ROUTE 335: IL ROUTE 60 (TOWNLINE RD) AT DES PLAINES RIVER
SECTION: FAP 0335 22 BJ2
PROJECT: NHPP–2M6Y(155)
BRIDGE DECK OVERLAY, BRIDGE JOINT REPLACEMENT AND REPAIR
LAKE COUNTY

C–91–286–22

D–91–233–22

LOCATION OF SECTION INDICATED THUS: –

PROJECT LOCATION
IL–60 OVER DES PLAINES RIVER
STRUCTURE NO. 049–0156



FOR INDEX OF SHEETS AND HIGHWAY STANDARDS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN THE VILLAGES OF VERNON HILLS AND METTAWA

TRAFFIC DATA

2021 ADT = 32,700 VPD
POSTED SPEED LIMIT = 45 MPH
PRINCIPAL ARTERIAL

100' 200' 300' — 1"= 100'
10' 20' 30' — 1"= 10'
50' 100' — 1"= 50'
50' 100' — 1"= 40'
50' 100' — 1"= 30'
50' 100' — 1"= 20'

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

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

MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR LOCATES IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES 773–287–7672

PROJECT ENGINEER: LUKASZ POCIECHA (847) 705–4255
PROJECT MANAGER: FAWAD AQUEEL

CONTRACT NO. 62T08

GROSS LENGTH = 2,043 FT. = 0.39 MILES
NET LENGTH = 2,043 FT. = 0.39 MILES

LICENSED PROFESSIONAL ENGINEER ALEXANDER CARL LANE 062-063261 OF ILLINOIS

Alex Lane
ALEXANDER CARL LANE, P.E.
IL. LIC. NO. 062–063261
EXP: 11/30/2023
DATE: 6/26/2023

THIS SEAL AND SIGNATURE PERTAINS TO SHEETS 1 TO 9, 19 TO 20, 39 TO 51

INFRASTRUCTURE ENGINEERING | INCORPORATED
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CONTACT: ALEXANDER LANE (312) 477–0620

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 26 20 23
Joan Rind | CBB
REGION 1 ENGINEER
August 18, 2023
ENGINEER OF DESIGN AND ENVIRONMENT
August 18, 2023
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

STATE STANDARDS

STANDARD NO.	DRAWING NAME
000001-08	STANDARD SYMBOLS, ABEREVIATIONS AND PATTERNS
630001-12	STEEL PLATE BEAM GUARDRAIL
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	3 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≤ 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

HMA TABLE

HOT-MIX ASPHALT MIXTURE REQUIRMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS @ Ndes	
BUTT JOINT		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", IL-9.5, N70, 1-3/4"	4% @ 70 Gyr	QC/QA
TEMPORARY FAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70 (2 INCH)	4% @ 70 Gyr	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19, N70 (8 INCH)	4% @ 70 Gyr	QC/QA
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 mm) (15")	4% @ 70 Gyr	QC/QA
QMP DESIGNATION: QUALITY CONTROL/ QUALITY ASSURANCE (QC/QA): QUALITY CONTROL FOR PERFORMANCE (QCP): PAY FOR PERFORMANCE (PFP)		

MIXTURE REQUIREMENT NOTES:

1.THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

2.THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

GENERAL NOTES

1. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES.
2. MEADE ELECTRIC COMPANY, THE IDOT DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR, LOCATES IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES. CALL 773-287-7672 FOR THE INITIAL LOCATE. REQUEST FOR LOCATES OF PREVIOUSLY MARKED FACILITIES MAY BE AT THE CONTRACTOR'S EXPENSE.
3. IN ADDITION TO FIELD REVIEW AND AERIAL DATA, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE BID PRICE FOR THE WORK.
4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION AND ORDERING MATERIALS.
6. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
7. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION 11.G.1. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
8. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
9. THE RESIDENT ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD TECHNICIAN, AT PATRICE.HARRIS@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
10. THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A 404 PERMIT. IF THE CONTRACTOR CHOSES TO USE ACTIVITIES REQUIRING AN USACE 404 PERMIT IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER USACE PERMITS.
11. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM I.D.O.T. FIELD MAINTENANCE ENGINEERS.
12. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
13. SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
14. FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT. ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT SHALL BE EPOXY COATED UNLESS NOTED ON THE PLANS.
15. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS-RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTENT)" SHOWN IN PLANS.
16. THE CENTERLINE IS FOR INFORMATION ONLY.
17. THE CONTRACTOR SHALL CONTACT KEN JONES, THE LAND PRESERVATION MANAGER WITH THE LAKE COUNTY FOREST PRESERVE DISTRICT AT KJONES@LCFPD.ORG, 847-968-3251, BEFORE STARTING WORK WHICH INVOLVES ACCESSING ANY LAKE COUNTY FOREST PRESERVE PROPERTY.

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USER NAME = ALane	DESIGNED - CW	REVISED -	
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PLOT DATE = 8/3/2023	DATE - 06/28/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
IL-60 (TOWNLINE RD.) OVER DES PLAINES RIVER

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	2
		CONTRACT NO. 62T08		
	ILLINOIS	FED. AID PROJECT		

			URBAN	CONSTRUCTION CODE 0047	0005	
PAY ITEM NUMBER	DESIGNATION	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	100% STATE	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	278	278		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	428	428		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	26	26		
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	7	7		
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	62	62		
42001300	PROTECTIVE COAT	SQ YD	1,755	1,755		
44003100	MEDIAN REMOVAL	SQ FT	521	521		
44201833	CLASS D PATCHES, TYPE IV, 15 INCH	SQ YD	34	34		
50102400	CONCRETE REMOVAL	CU YD	5.0	5.0		
50157300	PROTECTIVE SHIELD	SQ YD	494	494		
50300225	CONCRETE STRUCTURES	CU YD	5.1	5.1		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	0.5	0.5		
50300260	BRIDGE DECK GROOVING	SQ YD	1,591	1,591		
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	154.2	154.2		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	65,670	65,670		
50800515	BAR SPLICERS	EACH	214	214		
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	3	3		
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	2	2		
60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	521	521		
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1		
67100100	MOBILIZATION	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10		
X7010238	CHANGEABLE MESSAGE SIGN (SPECIAL)	CAL MO	4	4		

				URBAN	CONSTRUCTION CODE 0047	0005	
	PAY ITEM NUMBER	DESIGNATION	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	100% STATE	
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	772	772		
	70307100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	SQ FT	103	103		
	70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	6,142	6,142		
	70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	1,068	1,068		
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	387.5	387.5		
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	375	375		
	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	42	42		
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3,513	3,513		
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	134	134		
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	86	86		
*	78004600	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LETTERS AND SYMBOLS	SQ FT	42	42		
*	78004620	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 4"	FOOT	516	516		
*	78004635	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 7"	FOOT	129	129		
*	78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	42	42		
*	78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	516	516		
*	78011040	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	129	129		
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	101	101		
*	78100300	REPLACEMENT REFLECTOR	EACH	40	40		
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	115	115		
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	2,759	2,759		
	X0327638	STREAM GAUGE	EACH	1	1		

* = SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL-60 (TOWNLINE RD.) OVER DES PLAINES RIVER

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	3
		CONTRACT NO. 62T08		
	ILLINOIS	FED. AID PROJECT		

REV-SEP

				CONSTRUCTION CODE		
			URBAN	0047	0005	
PAY ITEM NUMBER	DESIGNATION	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	100% STATE	
X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	219	219		
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	200		200	
X6333500	TRAFFIC BARRIER TERMINAL REMOVAL	EACH	1	1		
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
X7010410	SPEED DISPLAY TRAILER	CAL MO	1	1		
Z0004552	APPROACH SLAB REMOVAL	SQ YD	367	367		
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	1,300	1,300		
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1,300	1,300		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	8	8		
Z0015550	DEBRIS REMOVAL	CU YD	30	30		
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	3	3		
Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	7	7		
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	4		4	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	67	67		
Z0062456	TEMPORARY PAVEMENT	SQ YD	58	58		
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3	3		

* = SPECIALTY ITEM

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PLOT DATE = 6/30/2023		DATE - 06/28/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL-60 (TOWNLINE RD.) OVER DES PLAINES RIVER

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	4
		CONTRACT NO. 62T08		
	ILLINOIS FED. AID PROJECT			

REV-SEP

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. ALL MAINTENANCE OF TRAFFIC (MOT) LANE CLOSURES CAN BE COMPLETED WITH IDOT HIGHWAY STANDARDS. THE MOT PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY IMPROVE OR MODIFY THE MOT PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE MOT PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

2. THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT 1 ARTERIAL TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

3. THE IL-60 WORK ZONE SPEED LIMIT SHALL BE 35 MPH.

4. CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL TRAFFIC STAGE CHANGES ON EACH APPROACH OF THE EFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGN MESSAGES SHALL BE REVISED TWO WEEKS THEREAFTER WITH MESSAGES WARNING TRAFFIC OF POTENTIAL TRAFFIC DELAYS, QUEUING AND/OR WITH MESSAGES NOTIFYING TRAFFIC TO USE ALTERNATE ROUTES. THE SIGN LOCATIONS AND MESSAGES SHALL BE DETERMINED BY THE ENGINEER.

5. EXISTING REFLECTOR ELEMENTS IN RAISED REFLECTIVE PAVEMENT MARKERS THAT CONFLICT WITH STAGED TRAFFIC PATTERNS SHALL BE REMOVED UNDER THIS CONTRACT. THESE SHALL BE REPLACED WITHIN THE LIMITS OF THIS CONTRACT'S MAINTENANCE OF TRAFFIC, ALONG WITH ANY OTHER MARKERS THAT WERE MISSING REFLECTOR ELEMENTS PRIOR TO REOPENING THE LANES TO TRAFFIC. THE REMOVAL AND REPLACEMENT OF REFLECTOR ELEMENTS SHALL BE CONSIDERED INCLUDED IN THE COST OF REPLACEMENT REFLECTOR.

6. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN OR PEDESTRIAN SIDEWALK WITH THE PLACEMENT OF TEMPORARY CONSTRUCTION SIGNING. THE CONTRACTOR MUST MAINTAIN A 4-FOOT MINIMUM CLEAR WIDTH ON ALL SIDEWALKS WHEN INSTALLING TEMPORARY CONSTRUCTION SIGNS ON OR NEAR SIDEWALKS THAT ARE OPEN TO PEDESTRIANS.

7. CONTRACTOR SHALL REMOVE OR COVER ALL W21-1 (WORKERS PRESENT) AND W20-7 (FLAGGER) SIGNS, WITHIN AN HOUR, WHEN WORKERS ARE NOT PRESENT OR IF THE SIGN IS NOT APPLICABLE.

IL-60 CONSTRUCTION STAGING

MAINTENANCE OF TRAFFIC - PRE-STAGE

CONSTRUCTION:
1. REMOVE MEDIAN WEST OF BRIDGE AND REPLACE WITH TEMPORARY PAVEMENT.

MAINTENANCE OF TRAFFIC:
1. CLOSE THE INSIDE LANE IN EACH DIRECTION BY STANDARD. 1 LANE IN EACH DIRECTION SHALL BE MAINTAINED.

MAINTENANCE OF TRAFFIC - STAGE 1

CONSTRUCTION:
1. COMPLETE BRIDGE DECK AND JOINT REPAIRS OF THE SOUTH SIDE (EASTBOUND DIRECTION) OF THE BRIDGE.
2. COMPLETE BUTT JOINT ON APPROACH PAVEMENT SOUTH SIDE (EASTBOUND DIRECTION).

MAINTENANCE OF TRAFFIC:
1. CLOSE THE EASTBOUND LANES OF TRAFFIC AND SHIFT TRAFFIC TO THE WESTBOUND LANES. 1 LANE IN EACH DIRECTION SHALL BE MAINTAINED.

MAINTENANCE OF TRAFFIC - STAGE 2

CONSTRUCTION:
1. COMPLETE BRIDGE DECK AND JOINT REPAIRS AND OVERLAY OF THE NORTH SIDE (WESTBOUND DIRECTION) OF THE BRIDGE.
2. COMPLETE BUTT JOINT ON APPROACH PAVEMENT ON NORTH SIDE (WESTBOUND DIRECTION) OF THE BRIDGE.

MAINTENANCE OF TRAFFIC:
1. CLOSE THE WESTBOUND LANES OF TRAFFIC AND SHIFT TRAFFIC TO THE EASTBOUND LANES. 1 LANE IN EACH DIRECTION SHALL BE MAINTAINED.

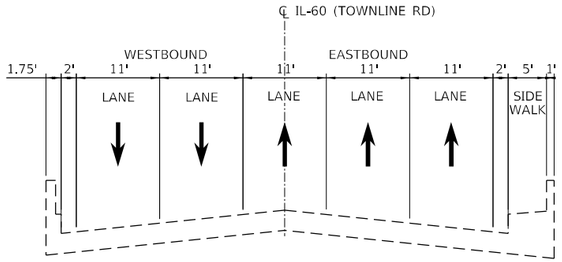
MAINTENANCE OF TRAFFIC - POST-STAGE

CONSTRUCTION:
1. REBUILD MEDIAN WEST OF BRIDGE.

MAINTENANCE OF TRAFFIC:
1. CLOSE THE INSIDE LANE IN EACH DIRECTION BY STANDARD. 1 LANE IN EACH DIRECTION SHALL BE MAINTAINED.

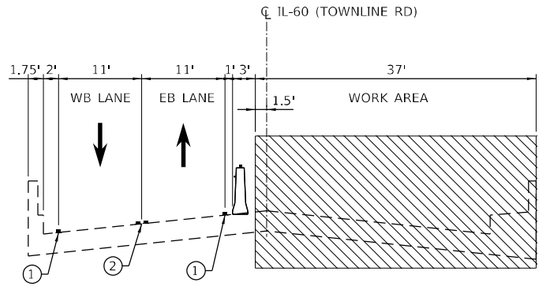
WORK ZONE SPEED LIMIT:

	EXISTING POSTED SPEED	PROPOSED POSTED SPEED
STAGE 1	45 MPH	35 MPH
STAGE 2	45 MPH	35 MPH



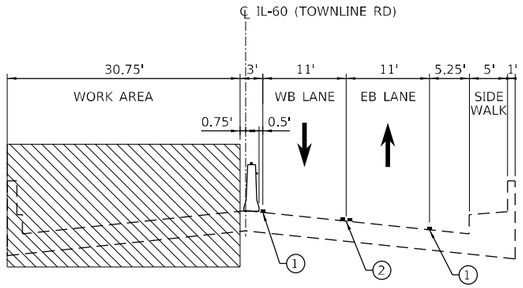
EXISTING TYPICAL CROSS SECTION

ON SN 049-0156



STAGE 1 CONSTRUCTION

ON SN 049-0156



STAGE 2 CONSTRUCTION

ON SN 049-0156

MOT TYPICAL LEGEND:

1. TEMPORARY PAVEMENT MARKING TAPE, TYPE IV (WHITE)
2. TEMPORARY PAVEMENT MARKING TAPE, TYPE IV (DOUBLE YELLOW @11' C-C)

WORK AREA

DIRECTION OF TRAVEL

TEMPORARY CONCRETE BARRIER WITH TYPE C, BI-DIRECTIONAL CRYSTAL REFLECTORS PER STD 704001 AND 782006.

TEMPORARY PAVEMENT MARKING

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	DRAWN - CW	REVISED -
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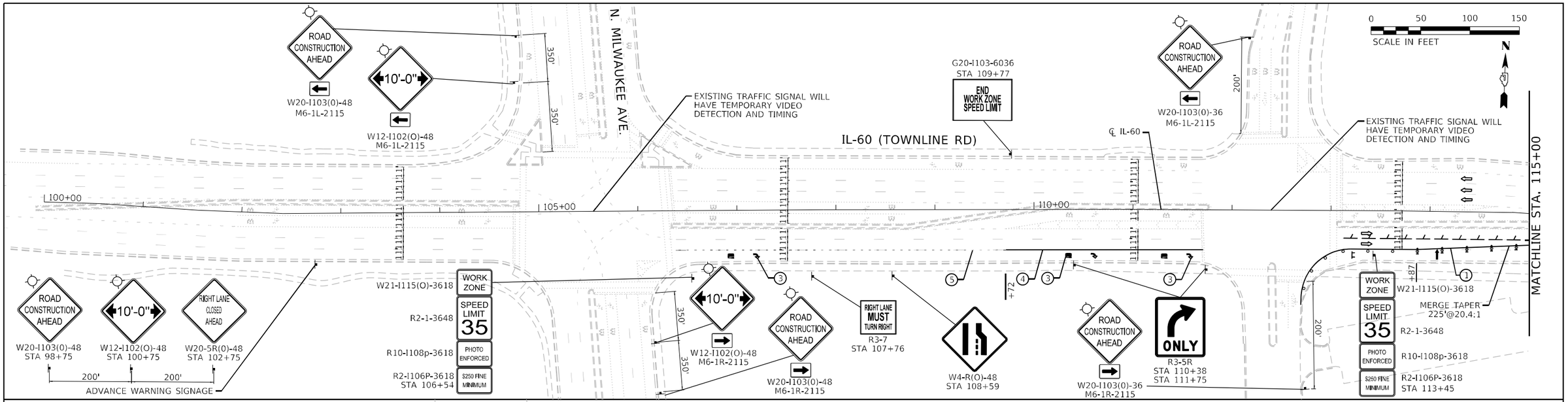
PLOT DATE = 6/29/2023	DATE - 06/28/2023	REVISED -

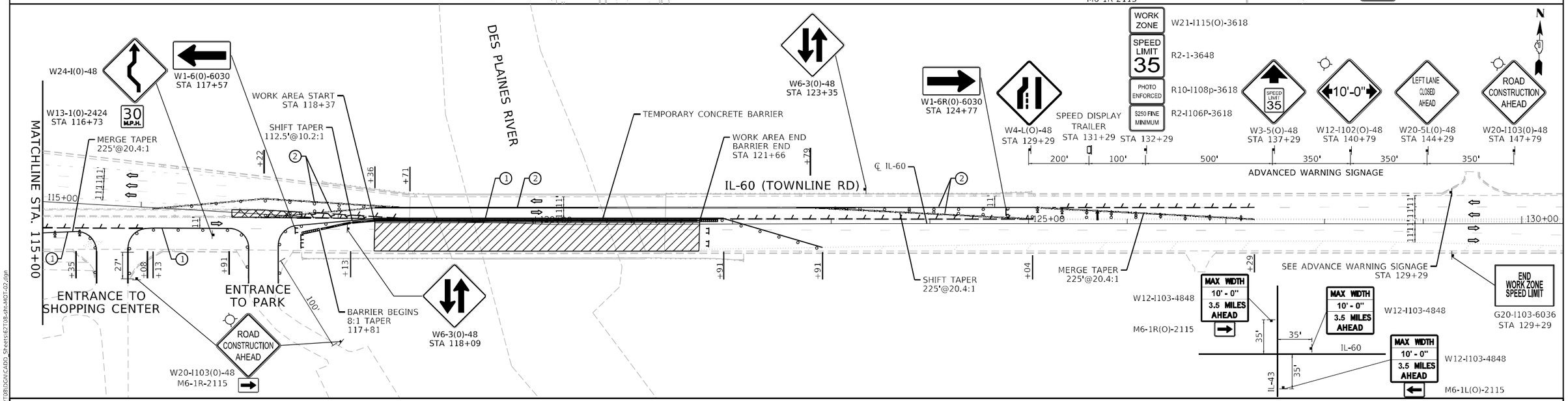
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS
GENERAL NOTES AND TYPICAL SECTIONS

SCALE: 1" = 50' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	5
		CONTRACT NO. 62T08		
	ILLINOIS	FED. AID PROJECT		





MOT SYMBOL LEGEND

- DRUM OR BARRICADE
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN LIGHT
- WORK AREA
- TYPE III BARICADE
- SPEED DISPLAY TRAILER
- DIRECTION OF TRAFFIC
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- ARROW BOARD
- BARRICADE OR DRUM WITH FLASHING LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- CRYSTAL, BIDIRECTIONAL BARRIER WALL REFLECTOR
- PAVEMENT MARKING REMOVAL
- TEMPORARY PAVEMENT

MOT PROPOSED LEGEND

1. TEMPORARY PAVEMENT MARKING TAPE, TYPE IV 4" (WHITE)
2. TEMPORARY PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE YELLOW @ 11" C-C)
3. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TAPE TYPE IV
4. TEMPORARY PAVEMENT MARKING TAPE, TYPE IV 6" (WHITE)
5. TEMPORARY PAVEMENT MARKING TAPE, TYPE IV 6" (WHITE) (3' LINE - 9' SPACE)

NOTE: REMOVE CONFLICTING PAVEMENT MARKING USING PAVEMENT MARKING REMOVAL - WATERBLASTING

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PLOT DATE = 6/29/2023	DATE - 06/28/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS
STAGE 1

SCALE: 1" = 50' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	6
		CONTRACT NO. 62T08		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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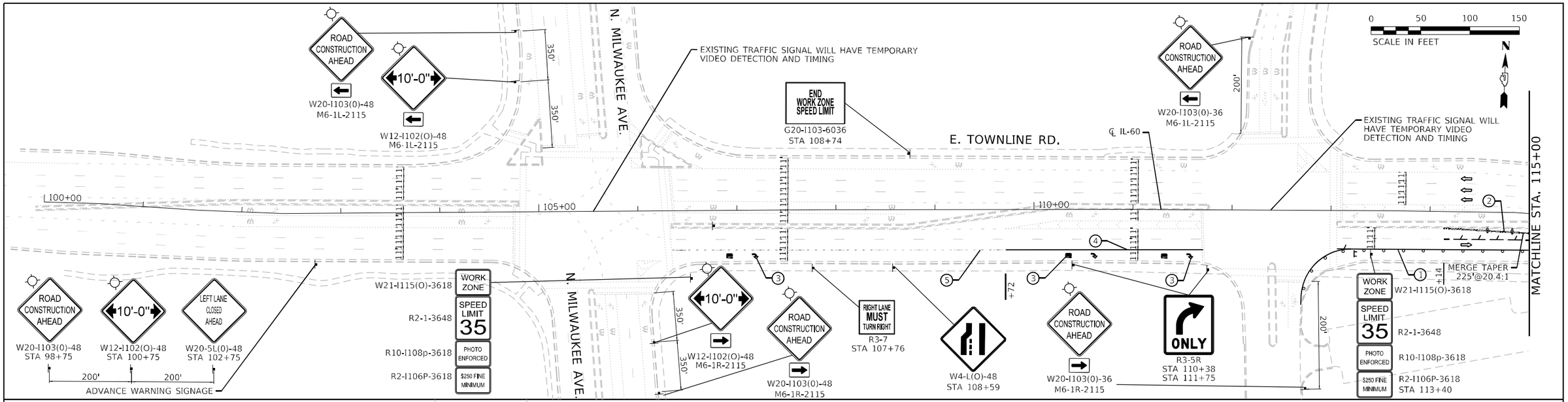

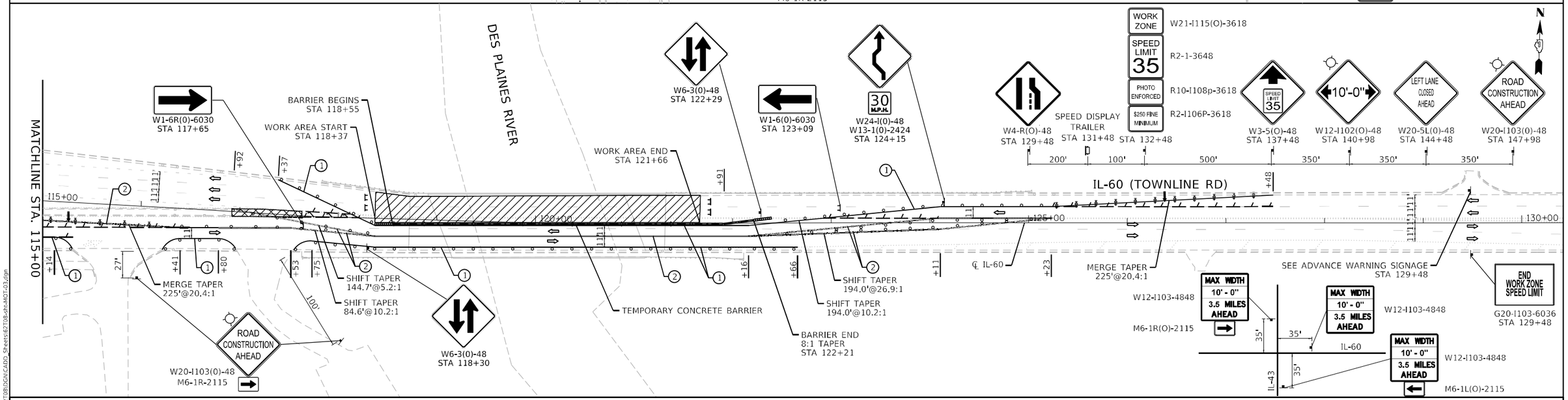

MOT SYMBOL LEGEND

- DRUM OR BARRICADE
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN LIGHT
- WORK AREA
- TYPE III BARICADE
- SPEED DISPLAY TRAILER
- DIRECTION OF TRAFFIC
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- ARROW BOARD
- BARRICADE OR DRUM WITH FLASHING LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- CRYSTAL, BIDIRECTIONAL BARRIER WALL REFLECTOR
- PAVEMENT MARKING REMOVAL
- TEMPORARY PAVEMENT

MOT PROPOSED LEGEND

1. TEMPORARY PAVEMENT MARKING TAPE, TYPE IV 4" (WHITE)
2. TEMPORARY PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE YELLOW @ 11" C-C)
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4. TEMPORARY PAVEMENT MARKING TAPE, TYPE IV 6" (WHITE)
5. TEMPORARY PAVEMENT MARKING TAPE, TYPE IV 6" (WHITE) (3' LINE - 9' SPACE)

NOTE: REMOVE CONFLICTING PAVEMENT MARKING USING PAVEMENT MARKING REMOVAL - WATERBLASTING

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS
STAGE 2

SCALE: 1" = 50' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	7
		CONTRACT NO. 62T08		
	ILLINOIS FED. AID PROJECT			

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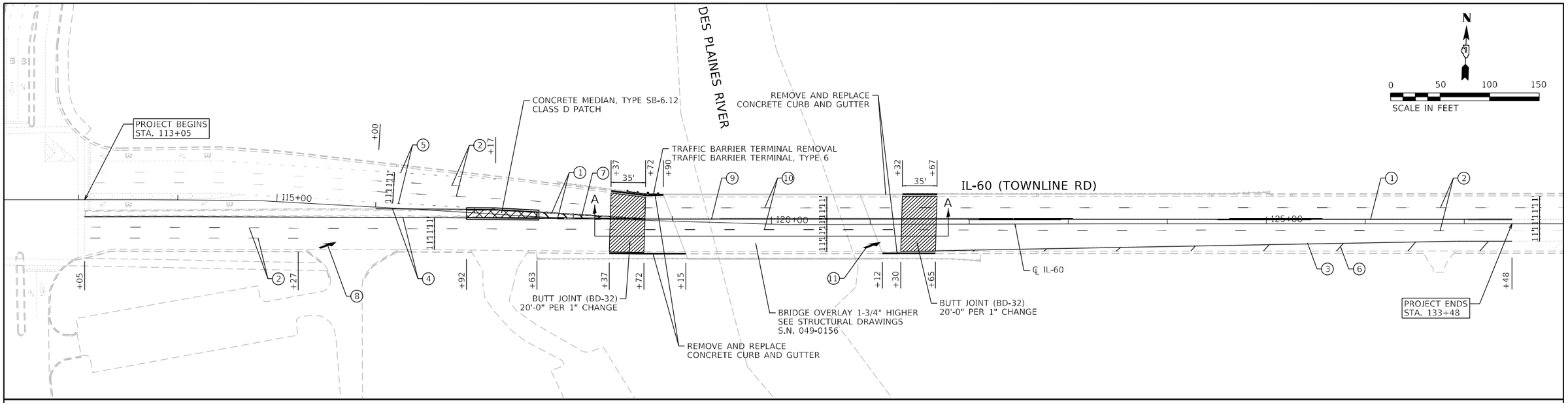

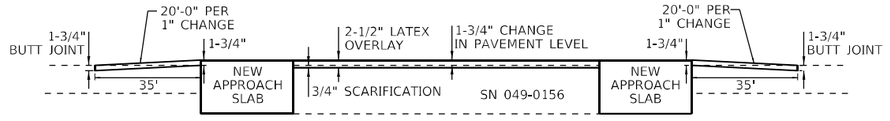

DETAIL A-A

NOTES:

1. ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA PAVEMENT.
2. PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE D AND GROOVING FOR RECESSED PAVEMENT MARKINGS SHALL BE USED FOR ALL PAVEMENT MARKINGS WITHIN BRIDGE LIMITS AND PCC APPROACH PAVEMENT
3. ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL
4. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL
5. ALL RAISED REFLECTIVE PAVEMENT MARKERS WITHIN BRIDGE LIMITS SHALL BE REMOVED AND NOT REPLACED

PAVEMENT MARKING LEGEND

(1) LINE 2 @ 4" SOLID YELLOW, 11" C-C - CENTERLINE (TYP)
(2) LINE 4", SKIP-DASH, WHITE (10' LINE - 30' SPACE) - LANE LINES
(3) LINE 4", SOLID, WHITE - EDGE LINE (TYP)
(4) LINE 4", SOLID, YELLOW - EDGE LINE (TYP)
(5) LINE 6", SKIP-DASH, WHITE (2' LINE - 6' SPACE) - DOTTED LINES (TYP)
(6) LINE 12", SOLID, WHITE - PAINTED MEDIANS DIAGONALS (TYP)
(SEE DISTRICT DETAIL TC-13 FOR SPACING)
(7) LINE 12", SOLID, YELLOW - PAINTED MEDIANS DIAGONALS (TYP)
(SEE DISTRICT DETAIL TC-13 FOR SPACING)
(8) LETTERS & SYMBOLS, SOLID, WHITE - TURN LANE MARKINGS (TYP)
(9) PREFORMED PLASTIC PAVEMENT MARKING, TYPE D, LINE 4", (LINE 2 @ 4" SOLID YELLOW, 11" C-C CENTERLINE)
GROOVING FOR RECESSED PAVEMENT MARKING 5" (78011025)
(10) PREFORMED PLASTIC PAVEMENT MARKING, TYPE D, LINE 7", SKIP-DASH, (10' LINE - 30' SPACE), (1.5" BLACK, 4" WHITE, 1.5" BLACK)
GROOVING FOR RECESSED PAVEMENT MARKING 8" (78011040)
(11) PREFORMED PLASTIC PAVEMENT MARKING, TYPE D, LETTERS & SYMBOLS
GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS (78011000)

LEGEND

HMA PAVEMENT
PCC PAVEMENT

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PLOT SCALE = 100.0010 ' / in.	CHECKED - ACL	REVISED -	
PLOT DATE = 7/25/2023	DATE - 06/28/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY AND PAVEMENT MARKING PLAN

SCALE: 1" = 50' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	8
		CONTRACT NO. 62T08		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: P:\D-2020-4094-00 IDOT Various Phase 2 (PTB 196 Item 161)\WO 29 62T08\Dr\MCADD Sheets\62T08-sht-PLAN-01.dgn

Bench Mark: Cut square on downstream wingwall at Right of Station 342+20 Elev. 652.37

Existing Structure: Structure No. 049-0156 was built in 1987 as F.A.U. Route 1246, Section 119R-1(87) at Station 342+83.55. The superstructure consists of a 3 span reinforced concrete deck on precast, prestressed concrete beams. The substructure consists of integral abutments on steel piles and solid wall encased pile bent piers. Length is 198'-5" (back to back abutments). Width is 66'-9" (out to out deck).

Traffic will be maintained utilitzing staged construction.

No salvage.

INDEX OF SHEETS

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

LOADING HS20-44

No future wearing surface allowed

DESIGN STRESSES

New Construtrion

f'c = 4,000 psi

fy = 60,000 psi

Existing Structure

f'c = 3,500 psi — Field units

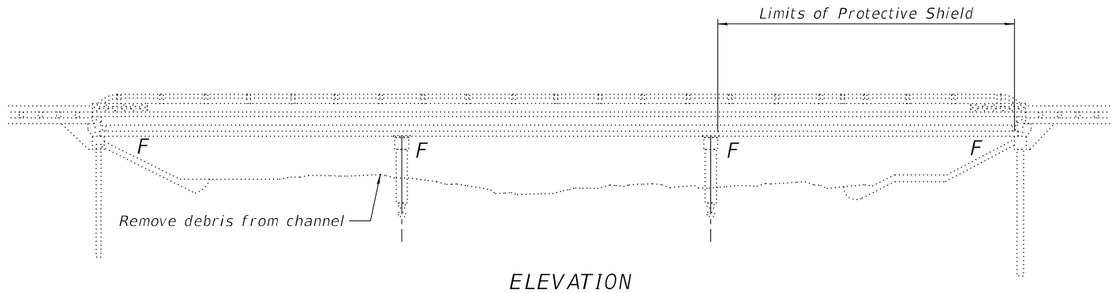
fy = 60,000 psi — Field units

f'c = 6,000 psi — Precast prestressed units

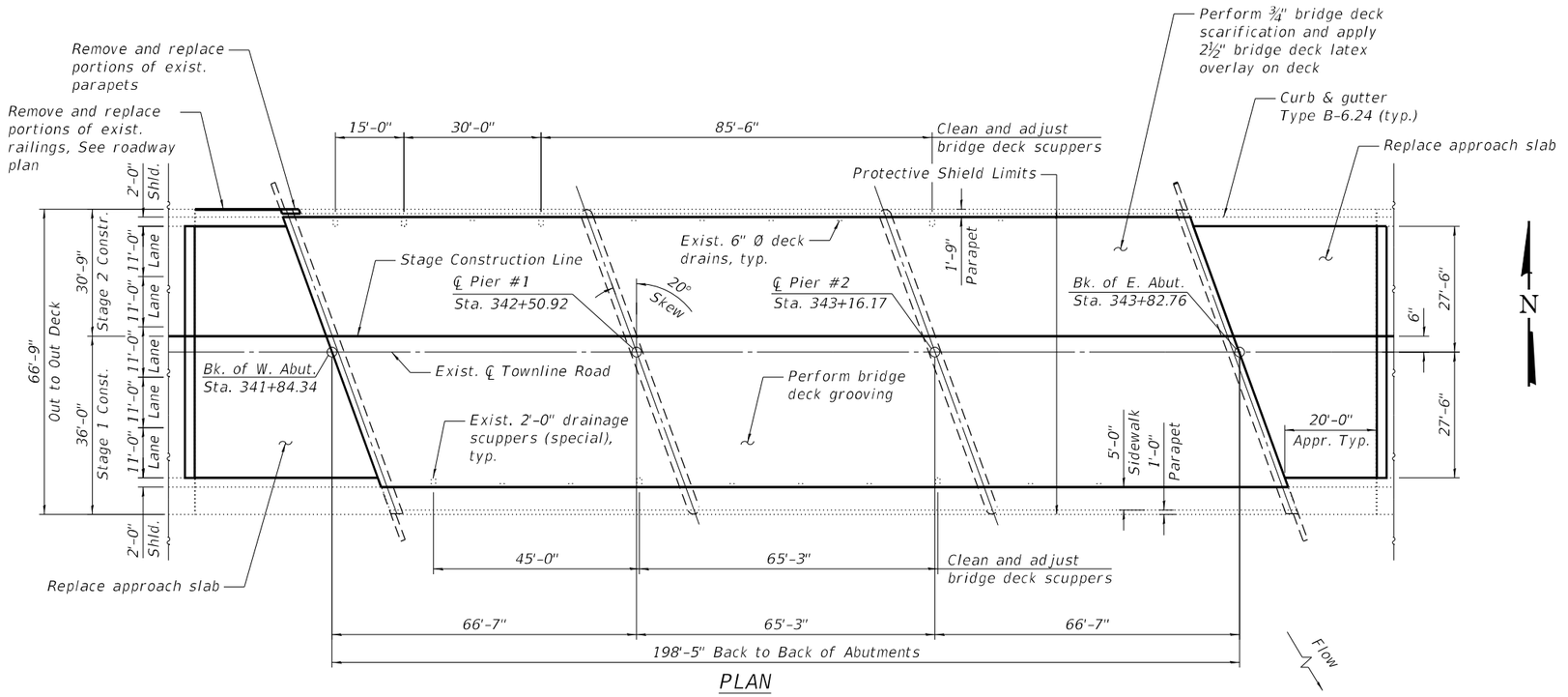
f'cI = 4,500 psi — Precast prestressed units

f's = 270,000 psi (½" Ø strands) — Precast prestressed units

f'sI = 189,000 psi (½" Ø strands) — Precast prestressed units



ELEVATION

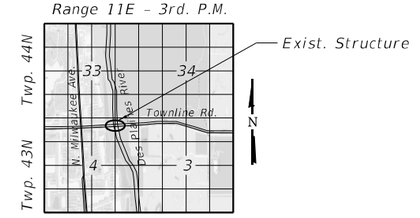


PLAN

PANKAJ KUMAR
081-007577
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS

Pankaj Kumar

PANKAJ KUMAR, S.E.
NO. 081-007577
EXP. DATE: 11/30/2024



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
ILLINOIS RTE. 60 (TOWNLINE ROAD)
OVER DES PLAINES RIVER
F.A.P. 335 SEC. F.A.P. 0335 22 BJ2
LAKE COUNTY
STATION 342+83.55
STRUCTURE NO. 049-0156

MODEL: Default
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PLOT SCALE = 0.1667 ' / in.	DRAWN - TY	REVISED -	
PLOT DATE = 7/17/2023	CHECKED - SPK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	9
		CONTRACT NO. 62T08		
	ILLINOIS	FED. AID PROJECT		

SCOPE OF WORK

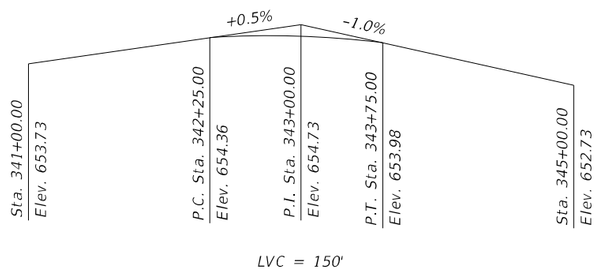
1. Perform ¾" bridge deck scarification on the bridge deck.
2. Perform deck slab repairs as required.
3. Remove and reconstruct portions of the parapet.
4. Clean and adjust bridge deck scuppers.
5. Apply 2½" bridge deck latex concrete overlay on the bridge deck.
6. Perform bridge deck grooving on the bridge deck and approach slabs.
7. Perform structural concrete repairs on the sidewalk.
8. Apply protective coat to the reconstructed top and inside surfaces of parapets, sidewalks, and concrete overlay areas.
9. Remove and replace approach slabs.
10. Removal channel debris.
11. Install stream gauge at Pier #2.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu Yd	5.0		5.0
Protective Shield	Sq Yd	494		494
Concrete Structures	Cu Yd	5.1		5.1
Concrete Superstructure	Cu Yd	0.5		0.5
Bridge Deck Grooving	Sq Yd	1,591		1,591
Protective Coat	Sq Yd	1,682		1,682
Concrete Superstructure (Approach Slab)	Cu Yd	153.5		153.5
Reinforcement Bars, Epoxy Coated	Pound	65,670		65,670
Bar Splicers	Each	214		214
Stream Gauge	Each		1	1
Approach Slab Removal	Sq Yd	367		367
Bridge Deck Latex Concrete overlay, 2½ Inches	Sq Yd	1,300		1,300
Bridge Deck Scarification, ¾"	Sq Yd	1,300		1,300
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	8		8
Debris Removal	Cu Yd		30	30
Deck Slab Repair (Full Depth, Type II)	Sq Yd	3		3
Drainage Scuppers to be Adjusted	Each	7		7

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. 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.
3. Debris shall be removed from within the channel as specified by the Engineer and shall be included in the cost of Debris Removal. Quantities are estimated and actual quantities and locations will be determined in the field, at the time of construction, by the Engineer.



PROFILE GRADE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, SCOPE OF WORK, & TOTAL BILL OF MATERIAL
STRUCTURE NO. 049–0156
SHEET 2 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	10
		CONTRACT NO. 62T08		
	ILLINOIS	FED. AID PROJECT		

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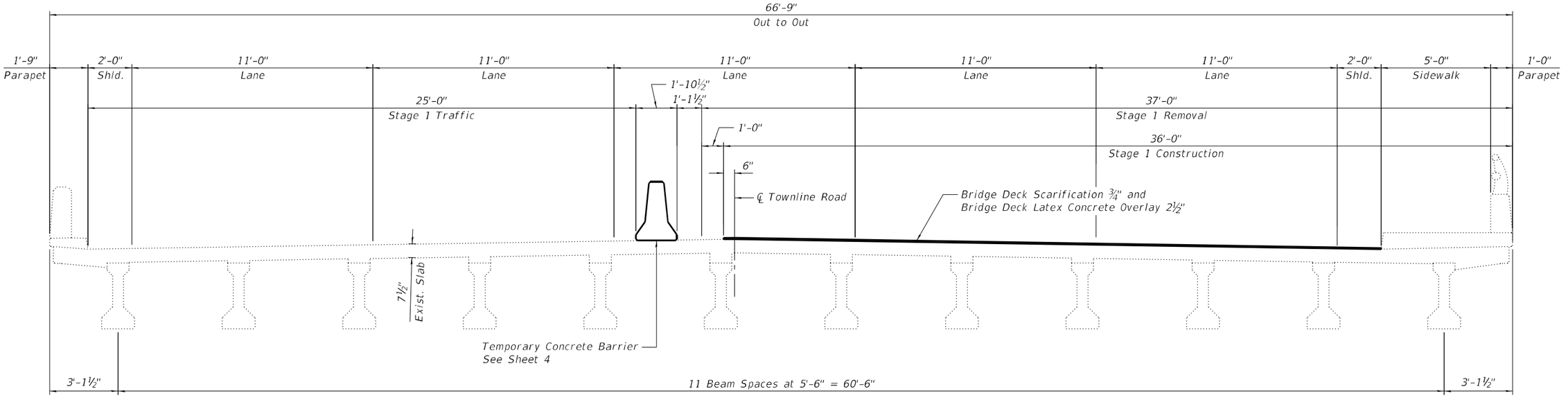
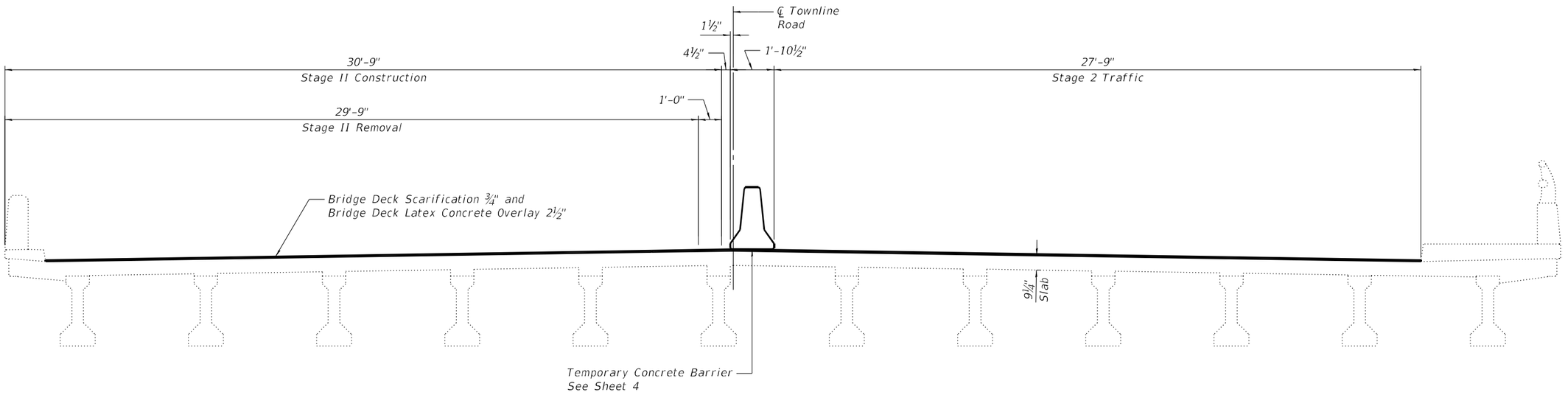


STAGE I REMOVAL AND CONSTRUCTION

(Looking East)



STAGE II REMOVAL AND CONSTRUCTION

(Looking East)

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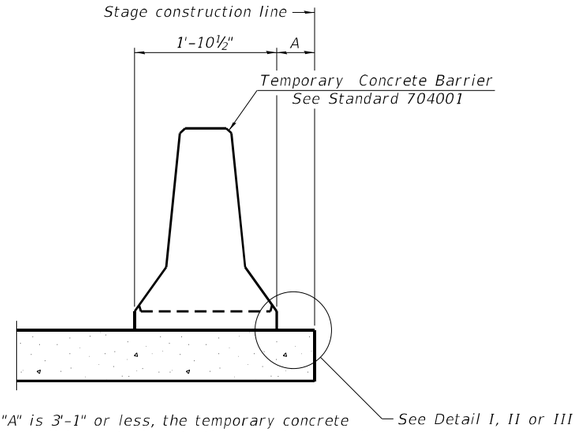
PLOT DATE = 6/29/2023	CHECKED - SPK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

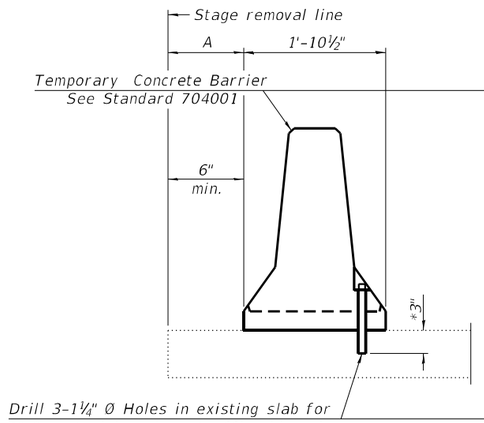
STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 049–0156
SHEET 3 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	11
		CONTRACT NO. 62T08		
	ILLINOIS	FED. AID PROJECT		



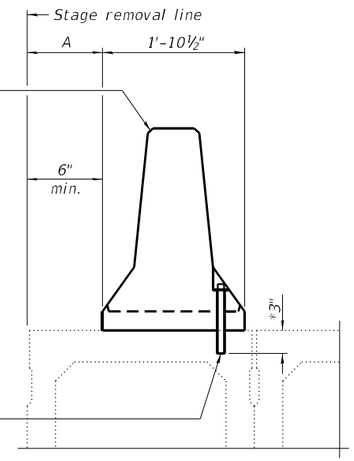
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



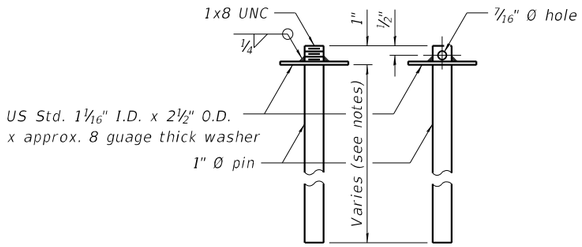
Drill 3-1¼" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB



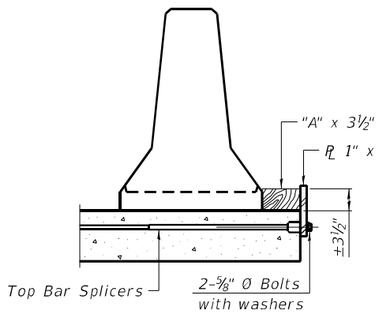
* When hot-mix asphalt wearng surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

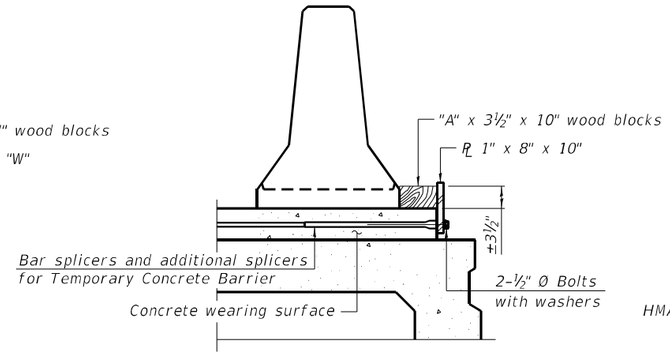


RESTRAINING PIN

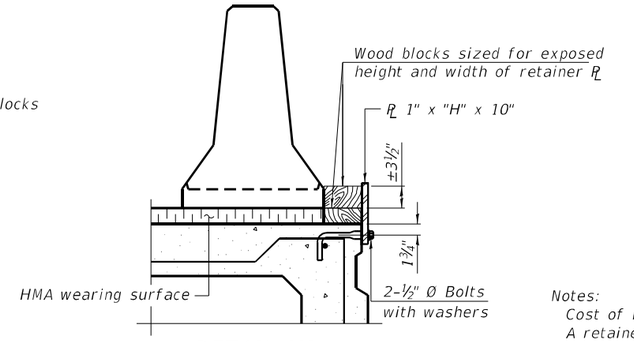
SECTIONS THRU SLAB OR DECK BEAM



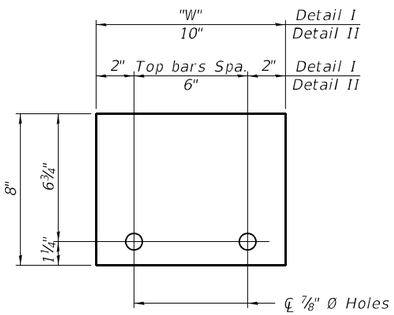
DETAIL I



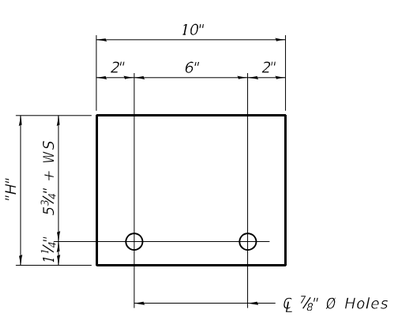
DETAIL II



DETAIL III



STEEL RETAINER PL 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER PL 1" x "H" x 10"
(Detail III)

BAR SPLICER FOR #4 BAR - DETAIL III

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate ℄ of each temporary concrete barrier.

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than 1½", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27

2-17-2017

MODEL: Default
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 049-0156
SHEET 4 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	12
		CONTRACT NO. 62T08		
	ILLINOIS FED. AID PROJECT			

VARIABLE DIMENSION TABLE

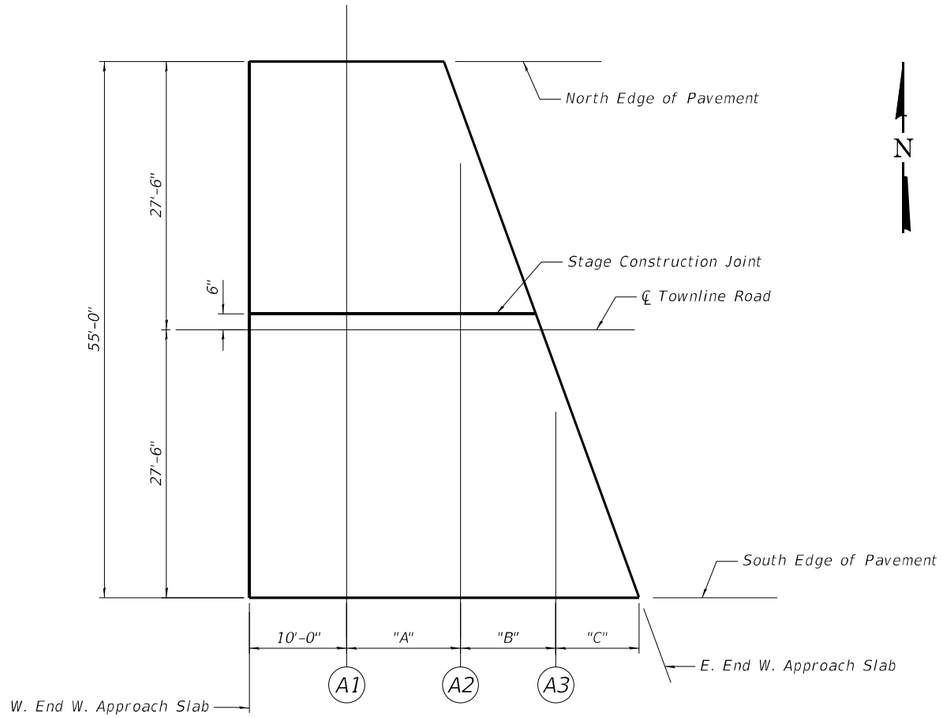
Location	"A"	"B"	"C"
North Edge of Pavement	9'-11¼"	-	-
Stage Construction Joint	10'-0"	9'-9⅛"	-
℄ Townline Road	10'-0"	9'-11⅜"	-
South Edge of Pavement	10'-0"	10'-0"	9'-11½"

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach Slab	341+54.47	-27.50	653.72
A1	341+64.47	-27.50	653.77
E. End W. Approach Slab	341+74.41	-27.50	653.82

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach Slab	341+54.47	-0.50	654.14
A1	341+64.47	-0.50	654.19
A2	341+74.47	-0.50	654.24
E. End W. Approach Slab	341+84.24	-0.50	654.29



PLAN

℄ TOWNLINE ROAD

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach Slab	341+54.47	0.00	654.15
A1	341+64.47	0.00	654.20
A2	341+74.47	0.00	654.25
E. End W. Approach Slab	341+84.42	0.00	654.30

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach Slab	341+54.47	27.50	653.72
A1	341+64.47	27.50	653.77
A2	341+74.47	27.50	653.82
A3	341+84.47	27.50	653.87
E. End W. Approach Slab	341+94.43	27.50	653.92

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 049-0156
SHEET 5 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	13
		CONTRACT NO. 62T08		
	ILLINOIS	FED. AID PROJECT		

VARIABLE DIMENSION TABLE

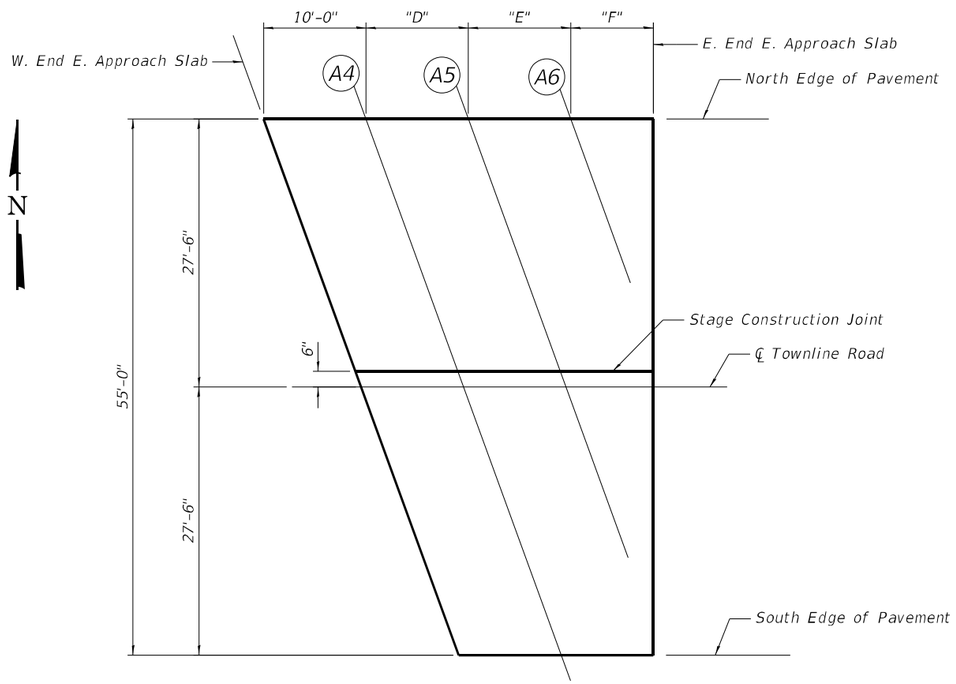
Location	"D"	"E"	"F"
North Edge of Pavement	10'-0"	10'-0"	9'-11½"
Stage Construction Joint	10'-0"	10'-1½"	-
℄ Townline Road	10'-0"	9'-11⅜"	-
South Edge of Pavement	9'-11¼"	-	-

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach Slab	343+72.67	-27.50	653.73
A4	343+82.67	-27.50	653.62
A5	343+92.67	-27.50	653.52
A6	344+02.67	-27.50	653.42
E. End E. Approach Slab	344+12.63	-27.50	653.32

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach Slab	343+82.49	-0.50	654.04
A4	343+92.49	-0.50	653.94
A5	344+02.49	-0.50	653.84
E. End E. Approach Slab	344+12.63	-0.50	653.74



PLAN

℄ TOWNLINE ROAD

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach Slab	343+82.68	0.00	654.05
A4	343+92.68	0.00	653.95
A5	344+02.68	0.00	653.85
E. End E. Approach Slab	344+12.63	0.00	653.75

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach Slab	343+92.69	27.50	653.52
A4	344+02.69	27.50	653.42
E. End E. Approach Slab	344+12.63	27.50	653.32

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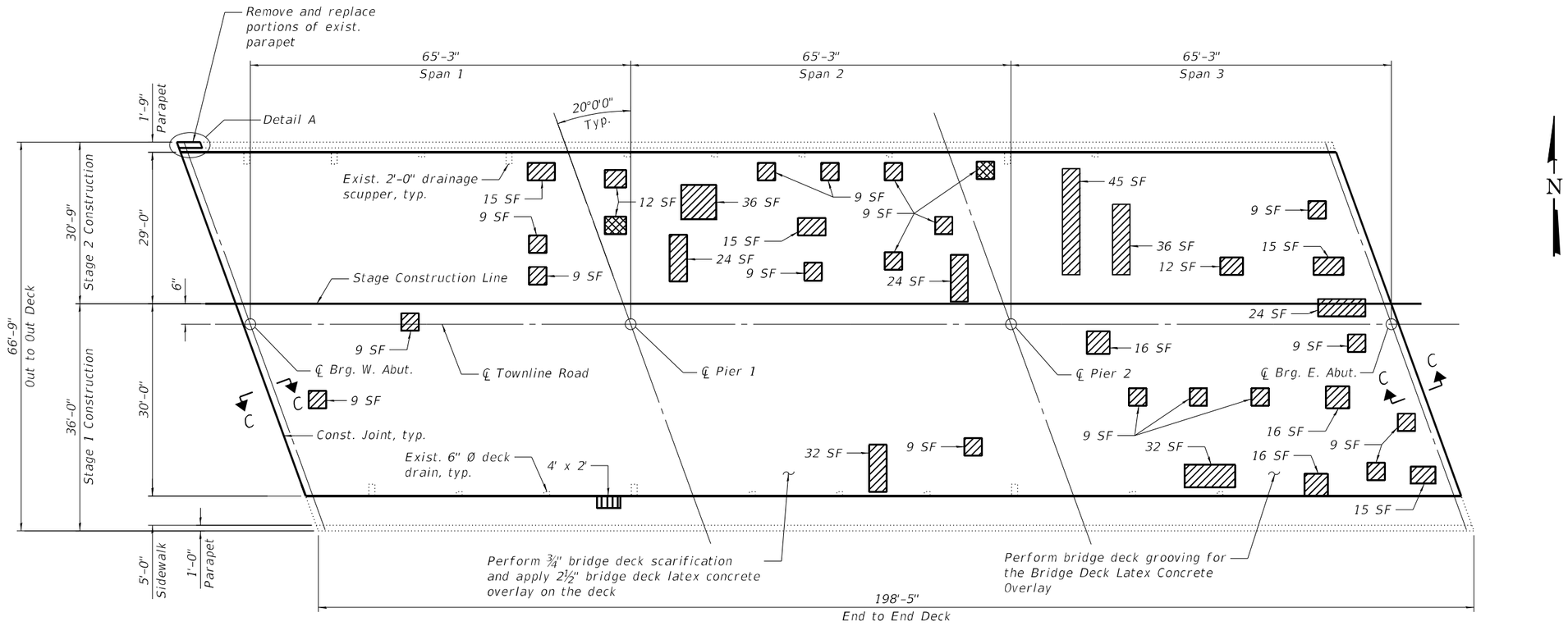
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

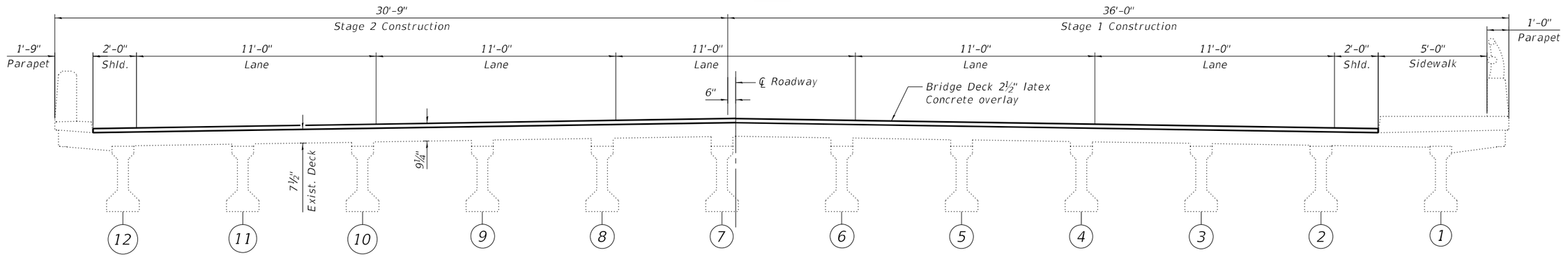
TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 049-0156

SHEET 6 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	14
		CONTRACT NO. 62T08		
	ILLINOIS	FED. AID PROJECT		



PLAN



CROSS SECTION

(Looking East)

LEGEND

- Deck Slab Repair (Partial Depth)
- Structural Repair of Concrete (Depth Equal or Less than 5")
- Deck Slab Repair (Full Depth, Type II)

NOTES

1. Quantity and limits of Deck Slab Repairs shown herein are estimated from a survey completed by the District. Actual limits shall be determined in the field by the Engineer and noted in the As-Built Plans.
2. Areas of Deck Slab Repair (Partial Depth) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 2½".
3. Protective Coat shall be applied to the reconstructed top and inside faces of bridge parapets, sidewalk, and new concrete overlay areas.
4. For Drainage Scupper Adjustment and Floor Drain Details, see Sheet No. 9 and 10.
5. For Detail A, see Sheet 8. For Section C-C, see Sheet 9.

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DEPARTMENT OF TRANSPORTATION

DECK REPAIR PLAN
STRUCTURE NO. 049-0156
SHEET 7 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	15
		CONTRACT NO. 62T08		
	ILLINOIS FED. AID PROJECT			

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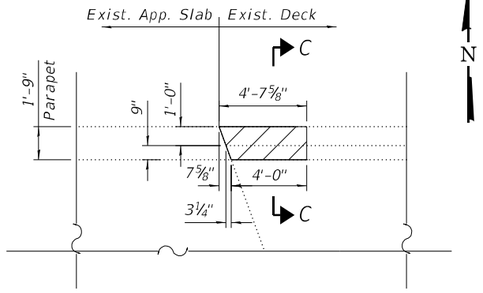
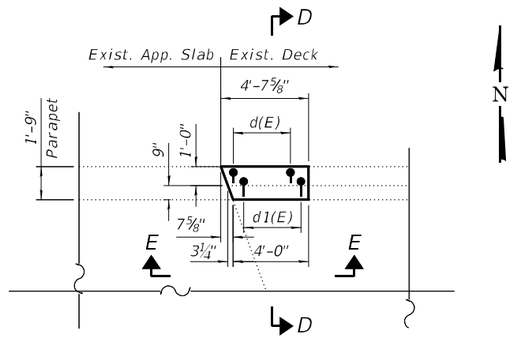
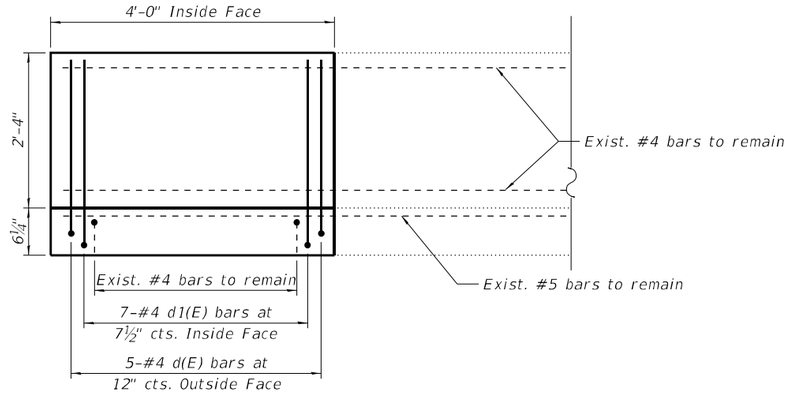


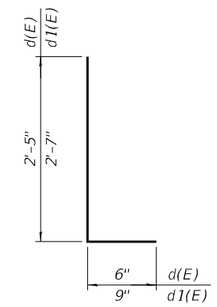
DETAIL A
REMOVAL PLAN



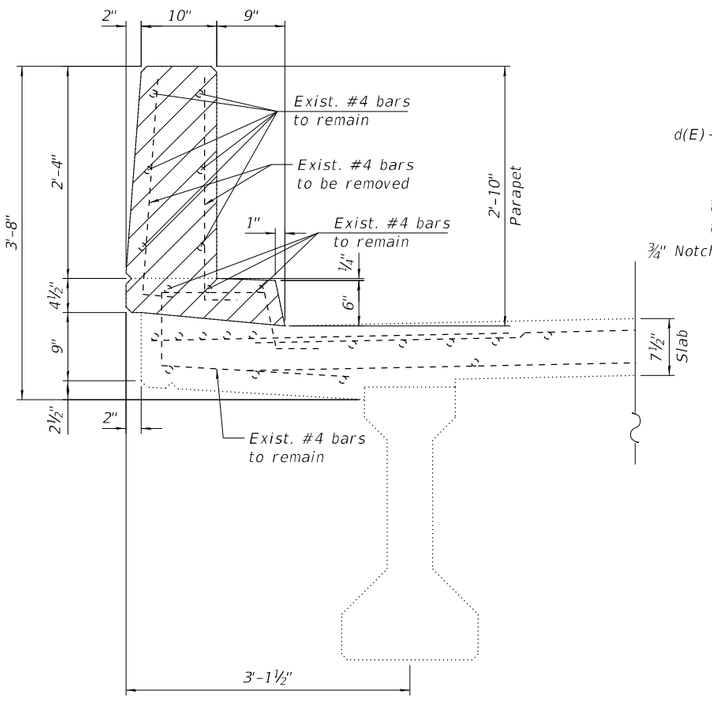
DETAIL A
RECONSTRUCTION PLAN



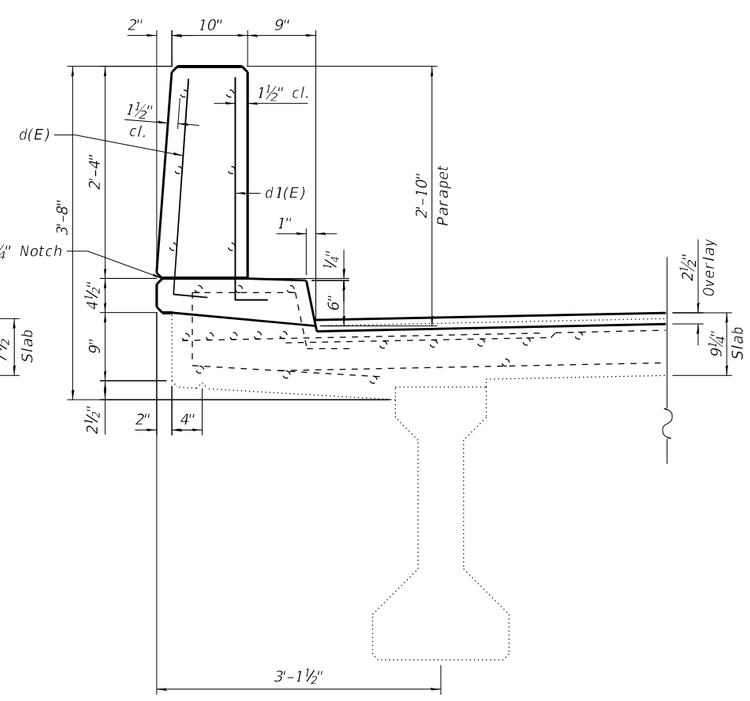
SECTION E-E



BARS d(E) & d1(E)



SECTION C-C



SECTION D-D

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	5	#4	2'-11"	L
d1(E)	7	#4	3'-4"	L
Concrete Removal			Cu Yd	0.5
Concrete Superstructure			Cu Yd	0.5
Bridge Deck Grooving			Sq Yd	1,211
Protective Coat			Sq Yd	1,302
Reinforcement Bars, Epoxy Coated			Pound	30
Bridge Deck Latex Concrete Overlay, 2½"			Sq Yd	1,300
Bridge Deck Scarification, ¾"			Sq Yd	1,300
Structural Repair of Concrete (Depth Equal or Less than 5")			Sq Ft	8
Deck Slab Repair (Full Depth, Type II)			Sq Yd	3

NOTES

1. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approval bar splicer or anchorage system. Cost included with Concrete Removal.

2. Curb concrete under parapet shall be paid for as Concrete Superstructure.

LEGEND

Concrete Removal

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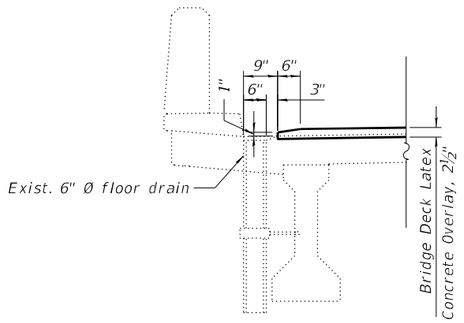
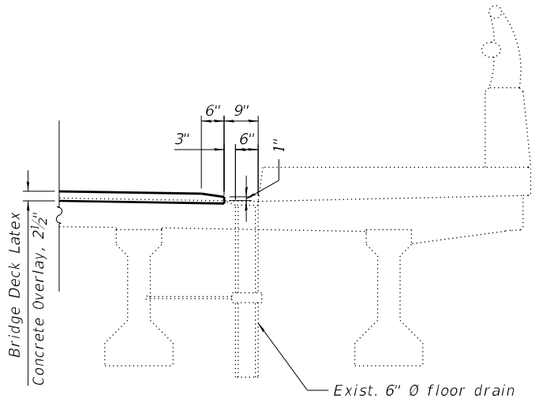
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET AND TRANSVERSE JOINTS REPAIRS
STRUCTURE NO. 049-0156
SHEET 8 OF 15 SHEETS

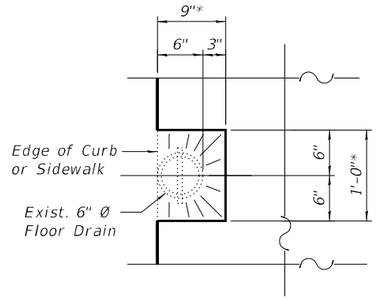
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	16
		CONTRACT NO. 62T08		
	ILLINOIS FED. AID PROJECT			



SECTION THRU PARAPET



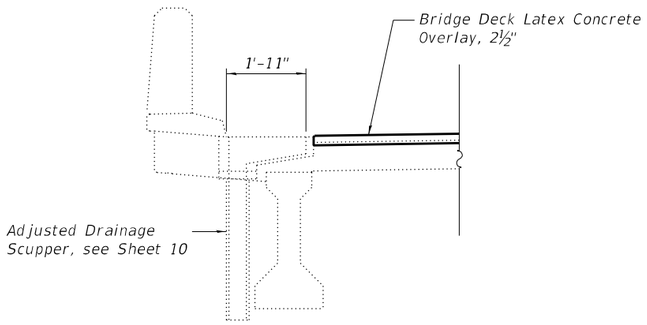
SECTION THRU SIDEWALK



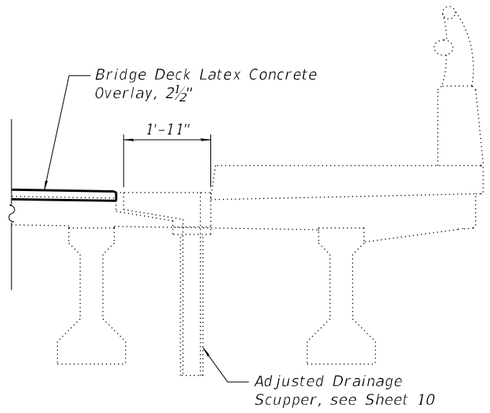
6" Ø FLOOR DRAIN
TOP PLAN

* At existing drains slope to drain

6" Ø FLOOR DRAINS

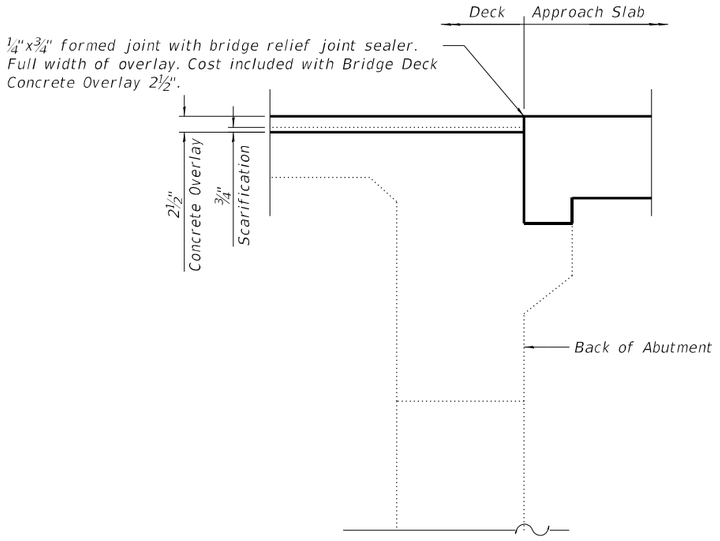


SECTION THRU PARAPET



SECTION THRU SIDEWALK

DRAIN SCUPPERS



SECTION C-C

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK DETAILS
STRUCTURE NO. 049–0156
SHEET 9 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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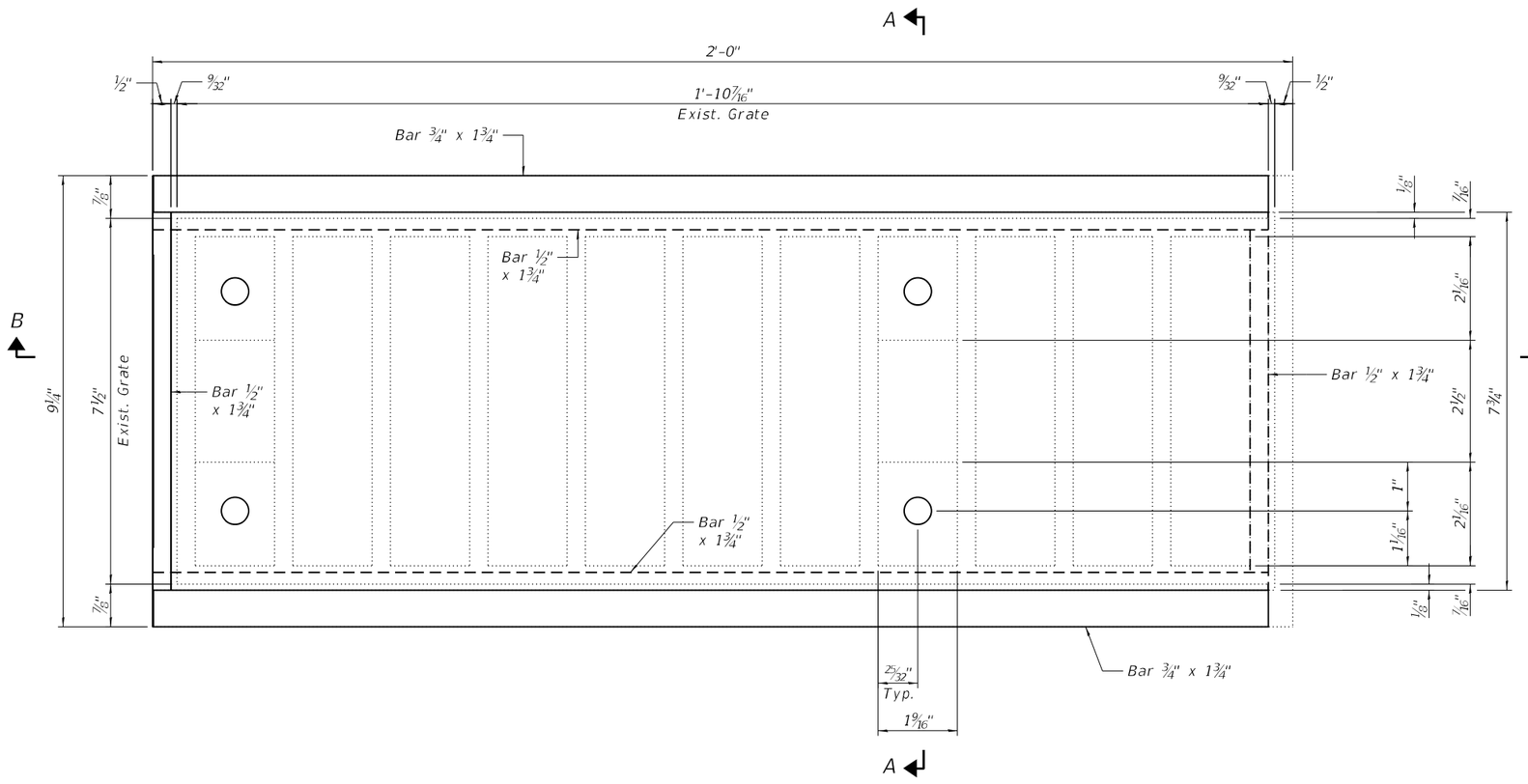
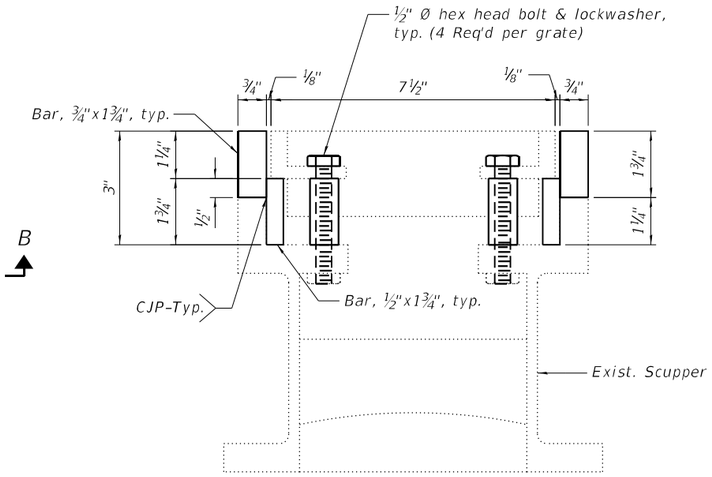
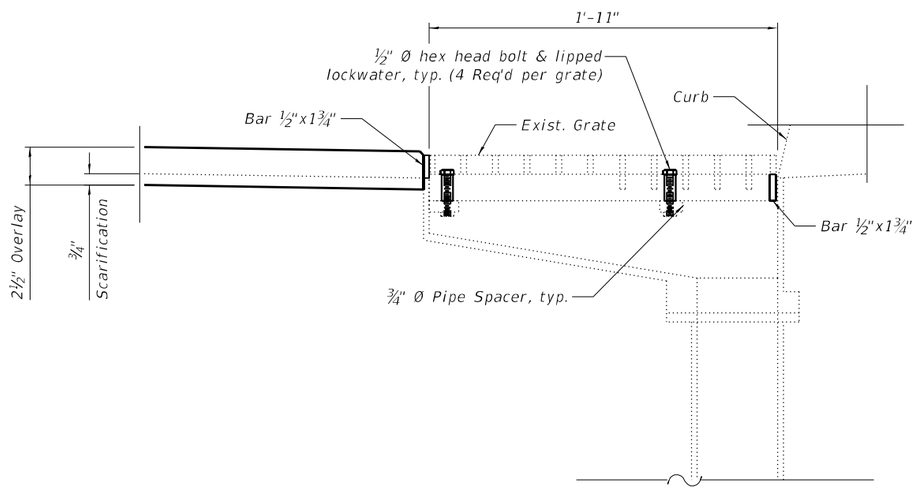
		CONTRACT NO. 62T08		
	ILLINOIS FED. AID PROJECT			



TYPICAL CAST IRON DRAINAGE SCUPPER PLAN



SECTION A-A



SECTION B-B

NOTES

1. The Contractor shall field verify existing dimensions and details of the existing scuppers and make necessary adjustments prior to the construction and ordering of material for adjusting drainage scupper.
2. All new bars to be structural steel and conform to AASHTO M-270, Grade 36.
3. The adjusting bars shall be galvanized according to AASHTO M111 and ASTM A385.
4. Bolts, washers, and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M232.
5. The Contractor shall ensure that no damage is done to existing grates to be reused. If grate is damaged, Contractor to replace the grate at his own cost.
6. All labor and material necessary to remove the existing grate, clean the existing scupper, furnish and install adjusting bars, and reinstall the existing grate are included in the cost of Drainage Scuppers to be Adjusted.

CJP = Complete Joint Penetration

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers to be Adjusted	Each	7

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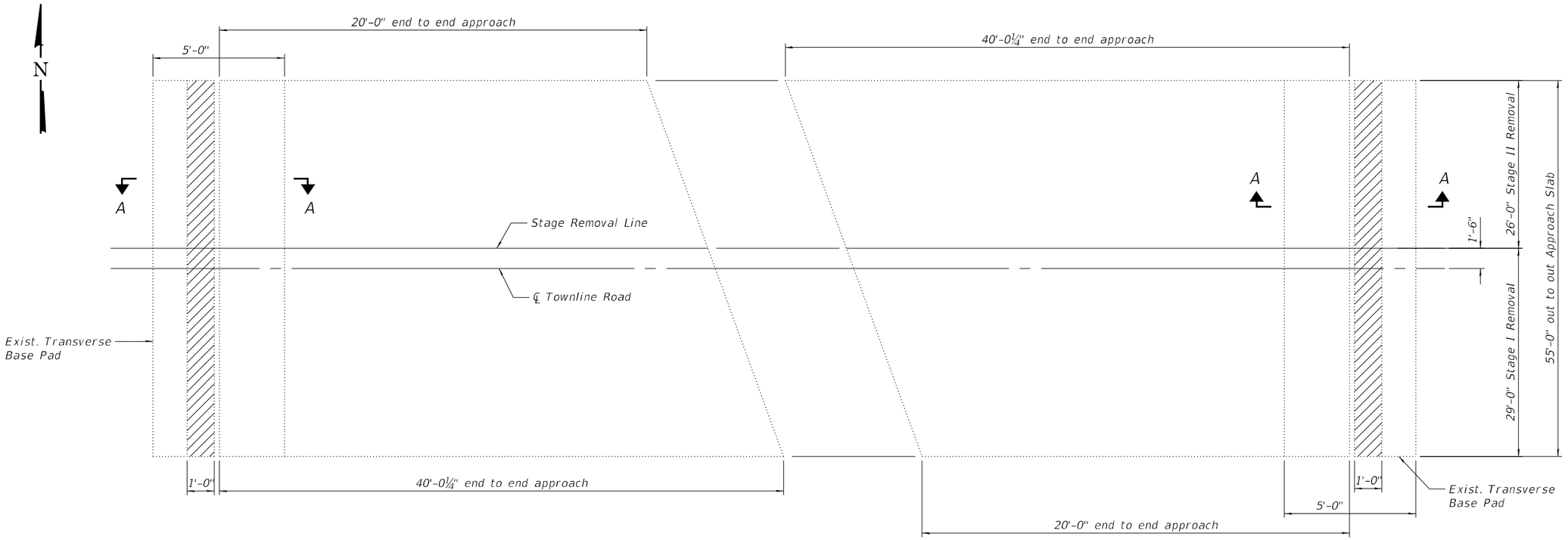
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

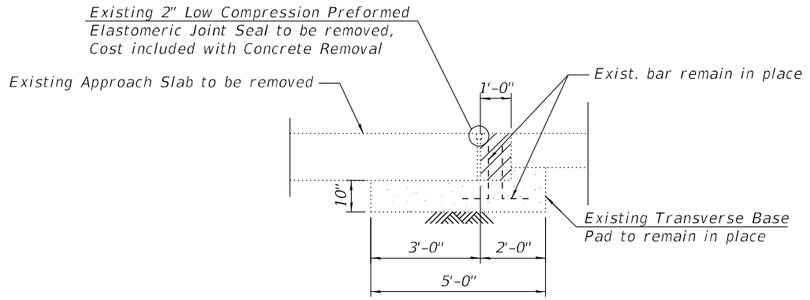
DRAINAGE SCUPPERS ALTERATIONS
STRUCTURE NO. 049-0156
SHEET 10 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	18
		CONTRACT NO. 62T08		
	ILLINOIS FED. AID PROJECT			



EXISTING WEST APPROACH SLAB PLAN

EXISTING EAST APPROACH SLAB PLAN



SECTION A-A

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	4.5
Approach Slab Removal	Sq. Yd.	367

LEGEND

Indicates Limits of Concrete Removal in Transverse Base Pad.
Cost included with Concrete Removal.

NOTE

1. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approval bar splicer or anchorage system. Cost included with Concrete Removal.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB REMOVAL
STRUCTURE NO. 049-0156

SHEET 11 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	19
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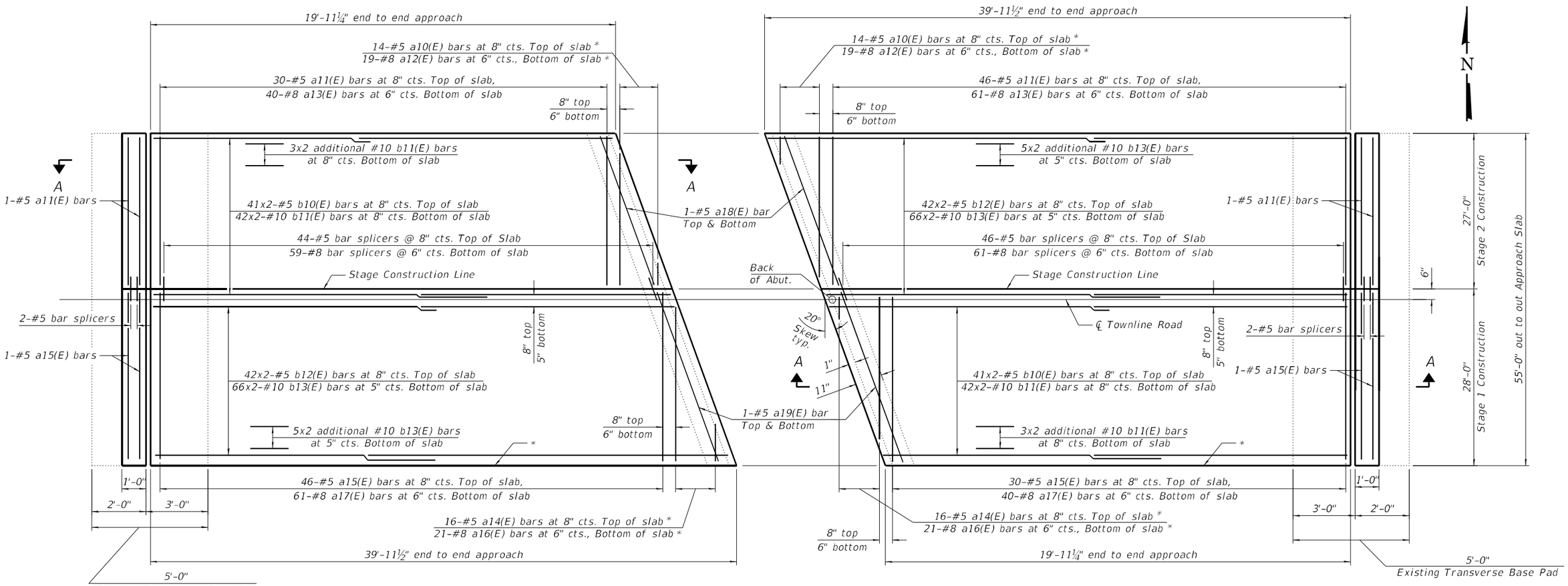
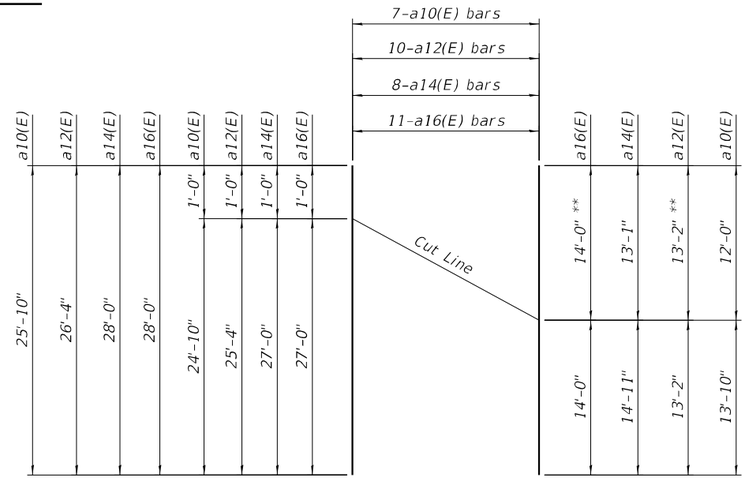


WEST APPROACH SLAB PLAN

EAST APPROACH SLAB PLAN



FIELD CUTTING DIAGRAM ***

* See Field Cutting Diagram

** Indicates bar length to be discarded when as odd number of bars are required.

*** Order bars full length. Cut to fit as shown and place at one end of the dimension line shown on the plan. Use remainder of bars at opposite end of the dimension line.

MODEL: Default
FILE NAME: P:\P-20\20-4094-00 IDOT Various Phase 2 IPTB 198 Item 16\IWO 29 62T08\DGN\CADD_Sheets\62T08-sht-STR-10_Appr1.dgn

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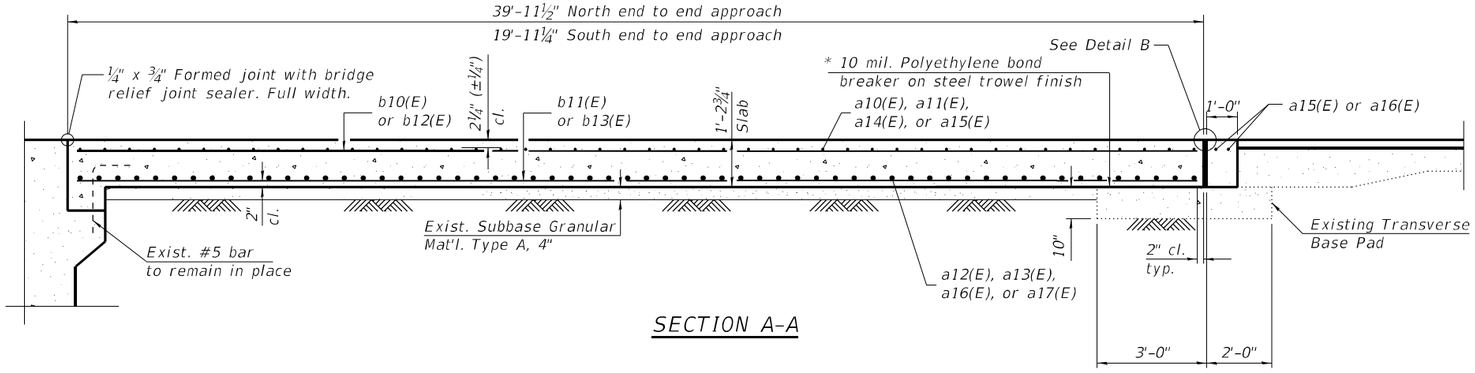
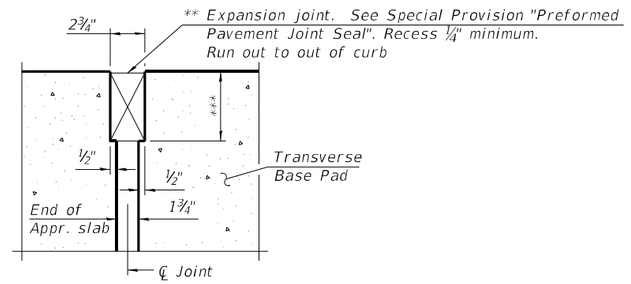
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS (SHEET 1 OF 2)
STRUCTURE NO. 049-0156
SHEET 12 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	20
		CONTRACT NO. 62T08		
	ILLINOIS FED. AID PROJECT			



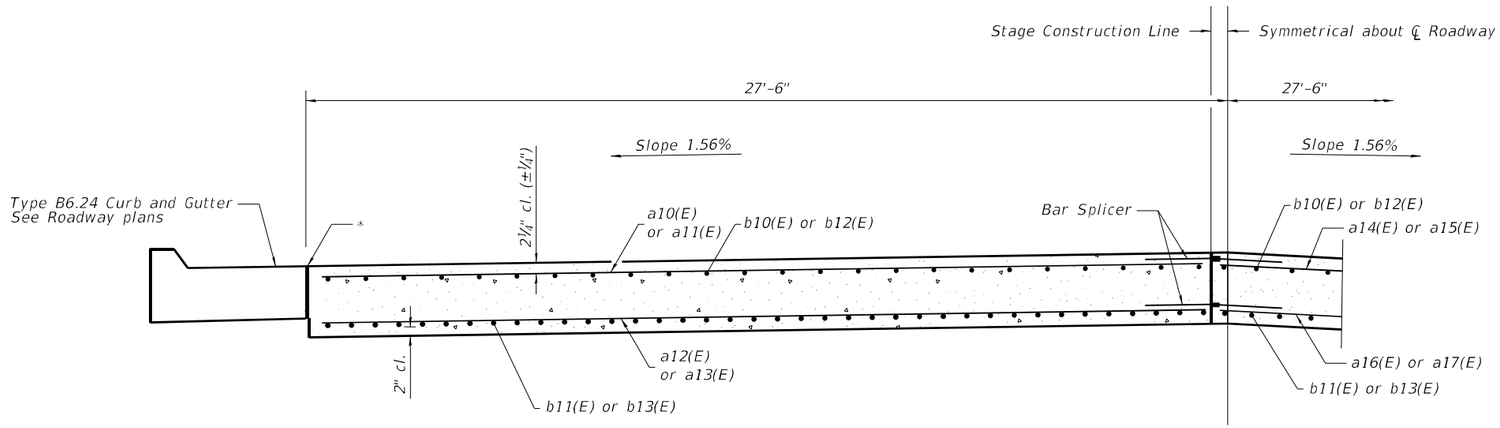
SECTION A-A



DETAIL B

** Cost included with Concrete Superstructure (Approach Slab).

*** Per manufacturer recommendations



CROSS SECTION

(Looking East)

* ½" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, typ. each side.

NOTES

1. Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
2. Transverse Base Pad concrete shall be paid for as Concrete Structures.
3. The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.

WEST APPROACH SLAB BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	7	#5	25'-10"	——
a11(E)	32	#5	26'-8"	——
a12(E)	10	#8	26'-4"	——
a13(E)	40	#8	26'-8"	——
a14(E)	8	#5	28'-0"	——
a15(E)	48	#5	27'-8"	——
a16(E)	11	#8	28'-0"	——
a17(E)	61	#8	27'-8"	——
a18(E)	2	#5	28'-5"	——
a19(E)	2	#5	29'-6"	——
b10(E)	82	#5	16'-6"	——
b11(E)	90	#10	19'-7"	——
b12(E)	84	#5	21'-6"	——
b13(E)	142	#10	24'-7"	——
Concrete Structures		Cu. Yd.	2.5	
Concrete Superstructure (Approach Slab)		Cu. Yd.	76.7	
Bridge Deck Grooving		Sq. Yd	190	
Protective Coat		Sq. Yd	190	
Reinforcement Bars, Epoxy Coated		Pound	32,860	

EAST APPROACH SLAB BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	7	#5	25'-10"	——
a11(E)	48	#5	26'-8"	——
a12(E)	10	#8	26'-4"	——
a13(E)	61	#8	26'-8"	——
a14(E)	8	#5	28'-0"	——
a15(E)	32	#5	27'-8"	——
a16(E)	11	#8	28'-0"	——
a17(E)	40	#8	27'-8"	——
a18(E)	2	#5	28'-5"	——
a19(E)	2	#5	29'-6"	——
b10(E)	82	#5	16'-6"	——
b11(E)	90	#10	19'-7"	——
b12(E)	84	#5	21'-6"	——
b13(E)	142	#10	24'-7"	——
Concrete Structures		Cu. Yd.	2.6	
Concrete Superstructure (Approach Slab)		Cu. Yd.	76.8	
Bridge Deck Grooving		Sq. Yd	190	
Protective Coat		Sq. Yd	190	
Reinforcement Bars, Epoxy Coated		Pound	32,780	

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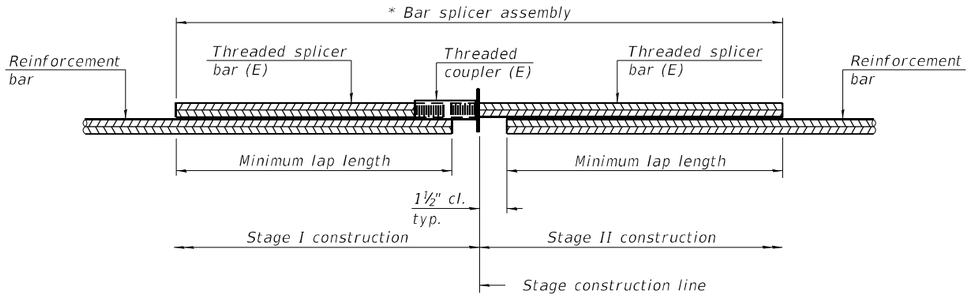
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS (SHEET 2 OF 2)
STRUCTURE NO. 049-0156

SHEET 13 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	21
		CONTRACT NO. 62T08		
	ILLINOIS	FED. AID PROJECT		



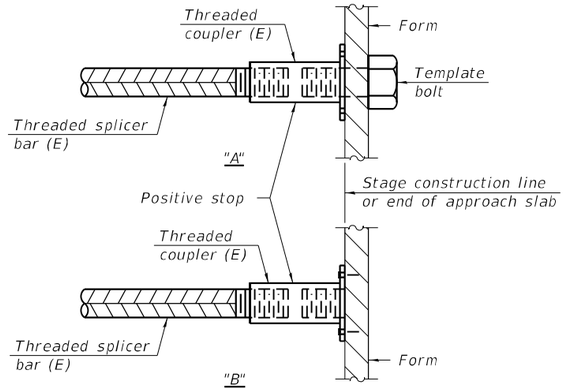
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1½" + thread length

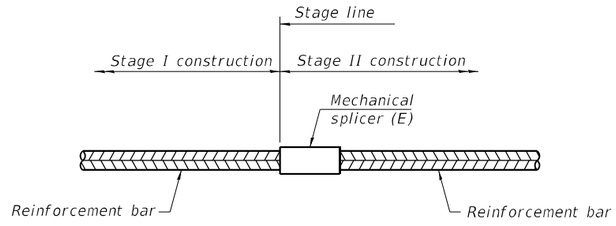
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
West Appr. Slab	#5	46	3'-4"
West Appr. Slab	#8	59	4'-9"
East Appr. Slab	#5	48	3'-4"
East Appr. Slab	#8	61	4'-9"



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.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:
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.

BSD-1 1-1-2020

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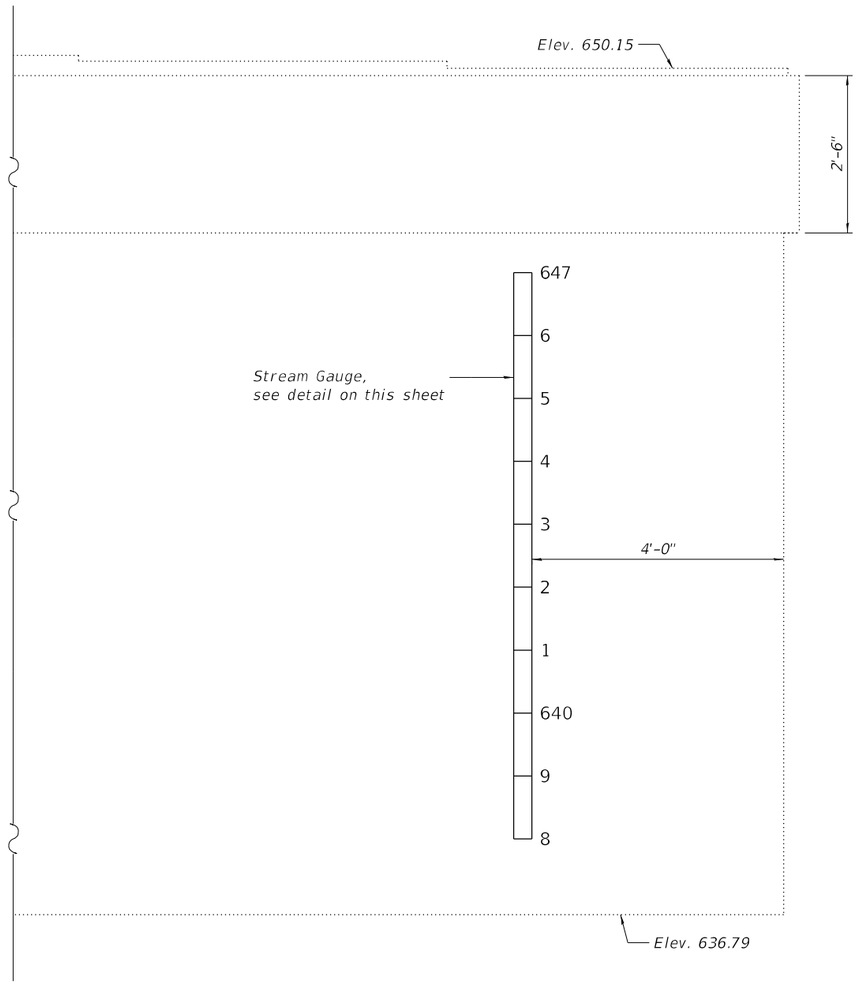
DEPARTMENT OF TRANSPORTATION

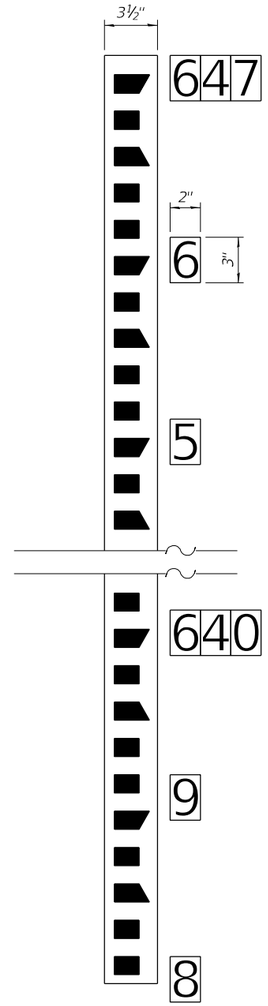
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 049-0156
SHEET 14 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	22
		CONTRACT NO. 62T08		
	ILLINOIS FED. AID PROJECT			



EAST ELEVATION – PIER #2

(Looking West)



STREAM GAUGE DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Stream Gauge	Each	1

STREAM GAUGE NOTES

1. The gauge plates shall be porcelain enameled iron plate graduated in feet and tenths, unnumbered, and 3½" wide. Gauge plates shall be WaterMark Style "E" or approved equivalent.
2. Each individual number plate should be a black numeral on 2" x 3" white porcelain enameled iron plate. Number plates shall be "WaterMark" Style "E" or approved equivalent.
3. Both the gauge plates and number plates shall be fastened directly to the pier with a ¼" diameter, 1½" long masonry screw with a hex washer head.
4. Three digit elevations to be installed at the top of the gauge and at every elevation ending with 0. At all of the other whole elevations, place the last digit as shown in the detail.

MODEL: Default
FILE NAME: P:\P-20\20-409\04-00 IDOT Various Phase 2 IPTB 196 Item 16\WO 29 62T08\DGN\CADD Sheets\62T08-dh-ST-R-09 Stream gauge.dgn

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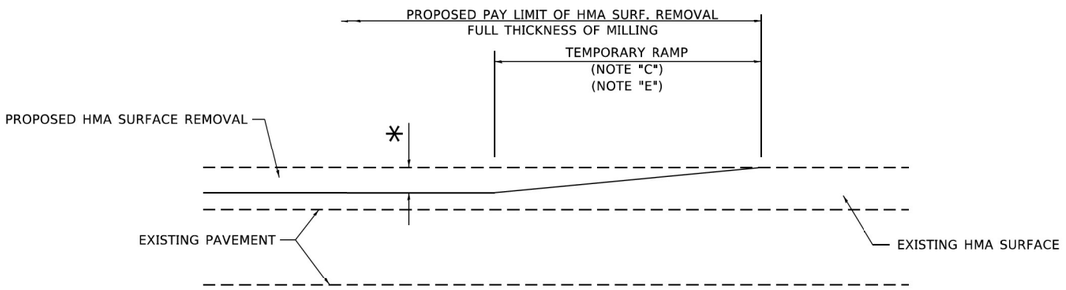
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER #2 STREAM GAUGE
STRUCTURE NO. 049–0156
SHEET 15 OF 15 SHEETS

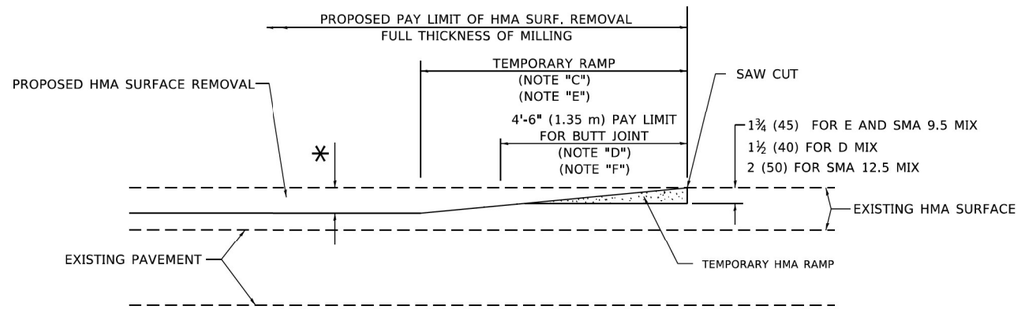
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	23
		CONTRACT NO. 62T08		
	ILLINOIS	FED. AID PROJECT		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

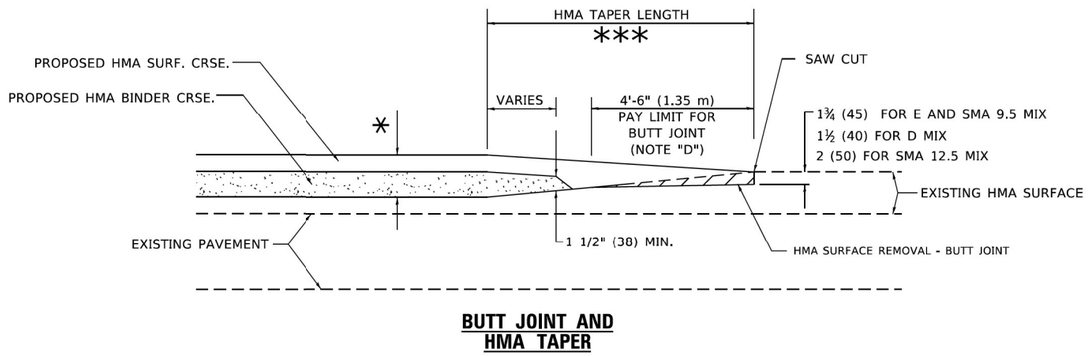


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

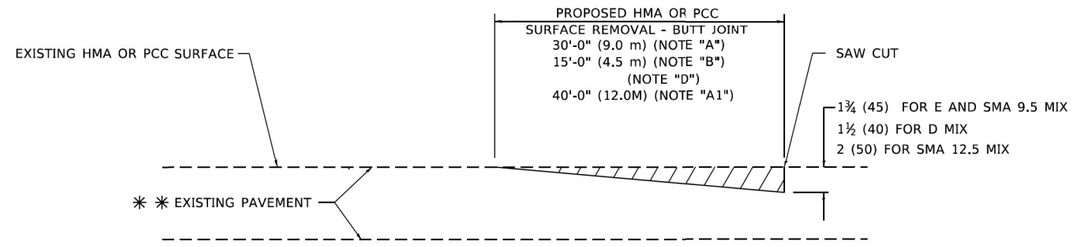
OPTION 2

TYPICAL TEMPORARY RAMP

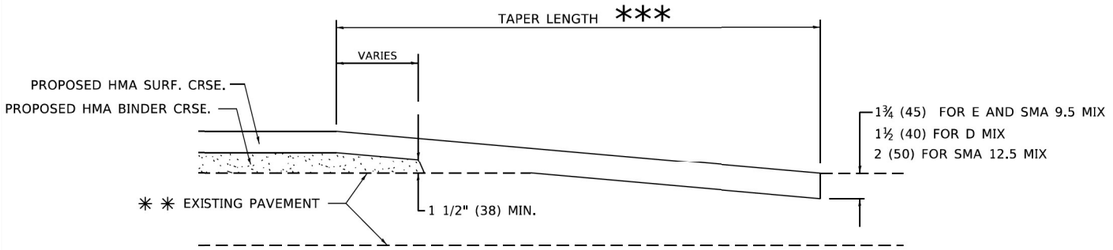


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

GENERAL NOTES

A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.

A1. INTERSTATES

B. MINOR SIDE ROADS.

C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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

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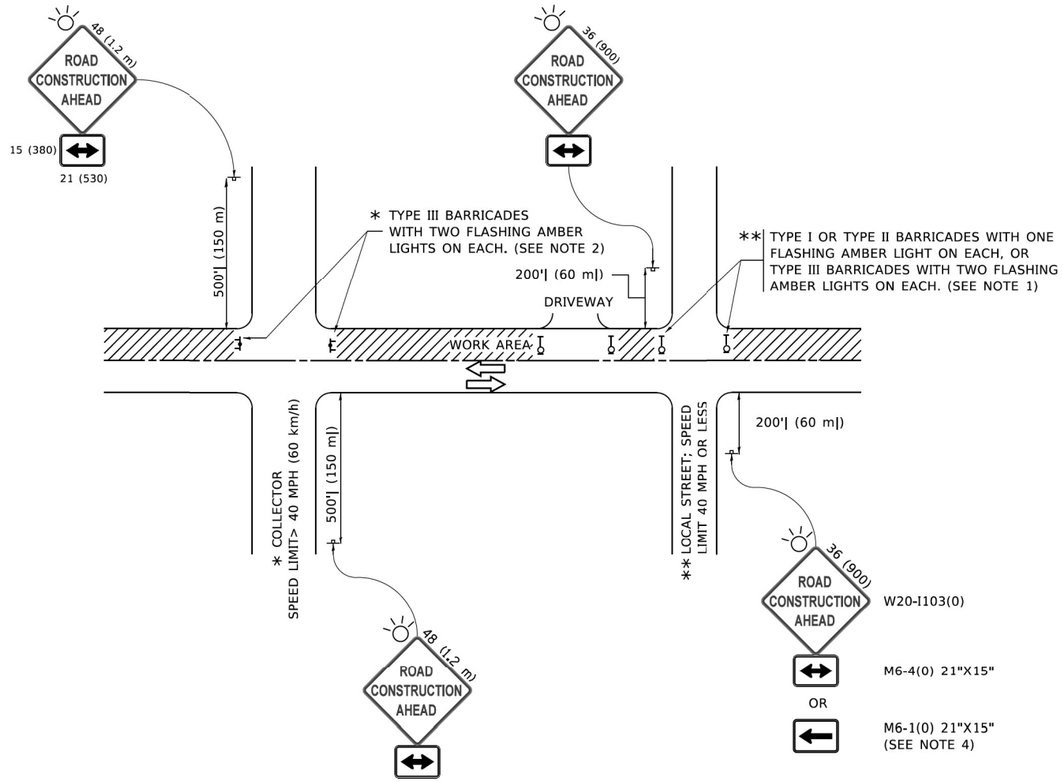
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – BUTT JOINT AND HMA TAPER DETAILS (BD–32)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	24
		CONTRACT NO. 62T08		
	ILLINOIS FED. AID PROJECT			



NOTES:

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

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

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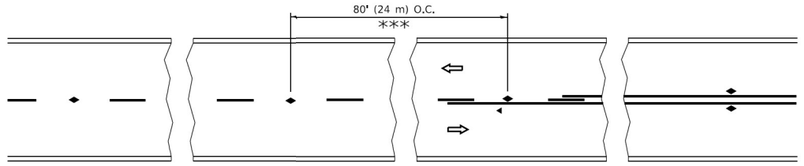
DISTRICT ONE – TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC–10)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

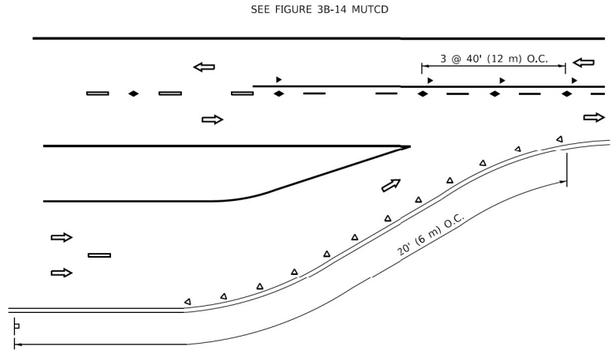
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	25
		CONTRACT NO. 62T08		
	ILLINOIS FED. AID PROJECT			



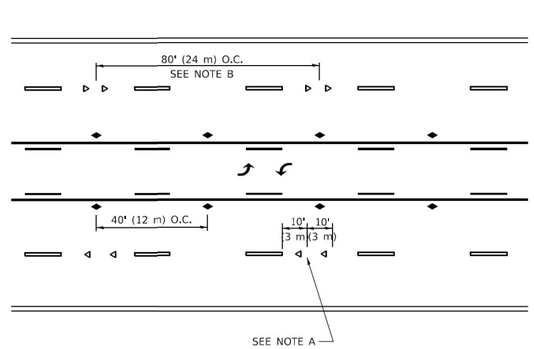
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO–LANE/TWO–WAY

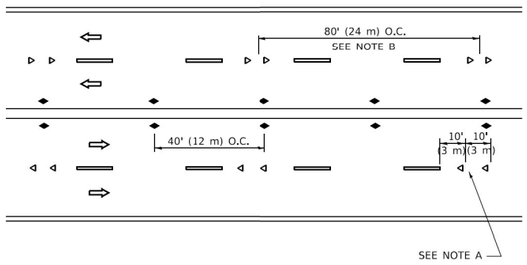
SEE FIGURE 3B-14 MUTCD



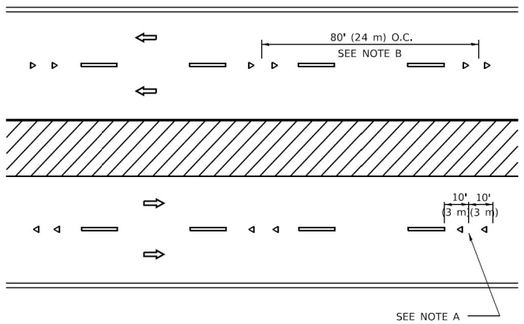
LANE REDUCTION TRANSITION



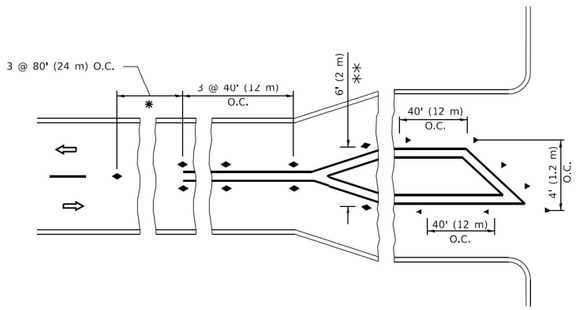
TWO–WAY LEFT TURN

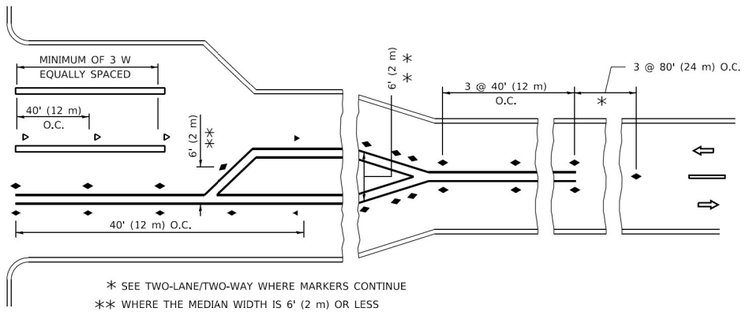


MULTI–LANE/UNDIVIDED



MULTI–LANE/DIVIDED





* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

TURN LANES

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

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

MODEL: Default
FILE NAME: P:\P-20-20-4094-00 IDOT Various Phase 2 (PTB 196 Item 16)\WO 29 62T08\DGN\CADD Sheets\62T08-sht-STANDARD5-03.dgn

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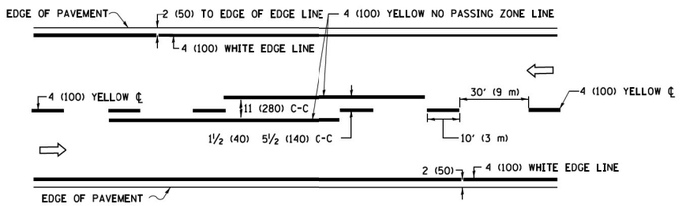
	DRAWN - CW	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - ACL	REVISED -	
PLOT DATE = 6/29/2023	DATE - 06/28/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

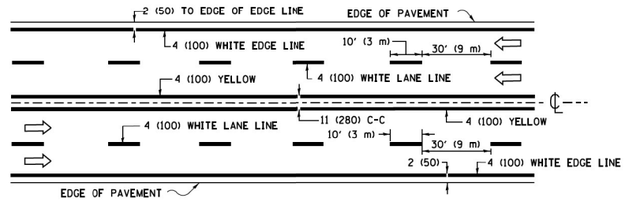
DISTRICT ONE – TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW–PLOW RESISTANT) (TC–11)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

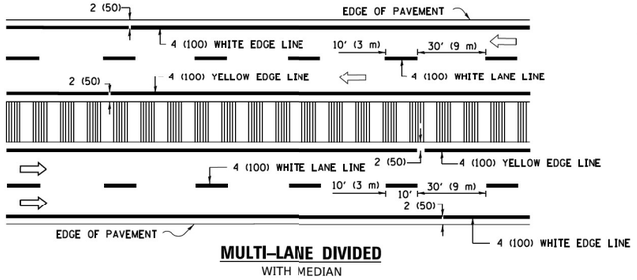
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	26
		CONTRACT NO. 62T08		
		ILLINOIS	FED. AID PROJECT	



2–LANE ROADWAY

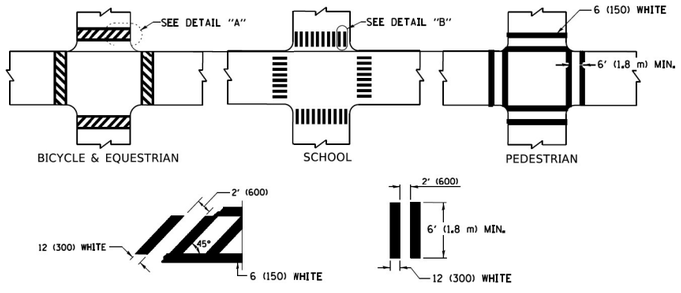


MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

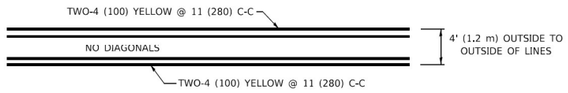
TYPICAL LANE AND EDGE LINE MARKING



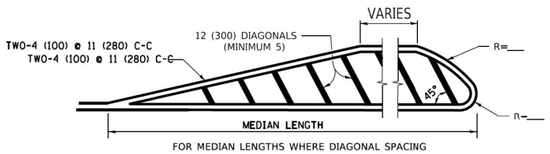
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

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



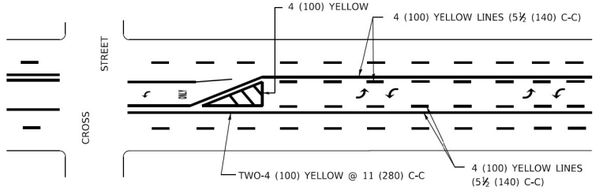
4' (1.2 m) WIDE MEDIANS ONLY



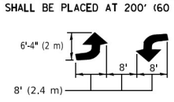
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

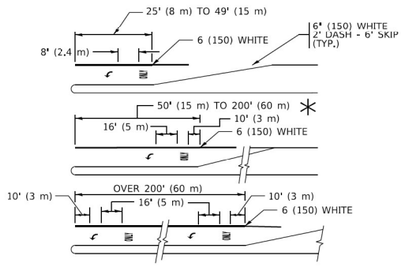


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

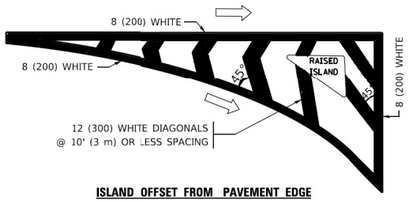


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m ²

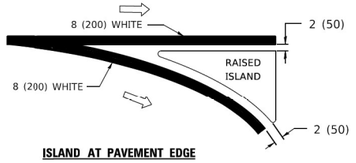
✱ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

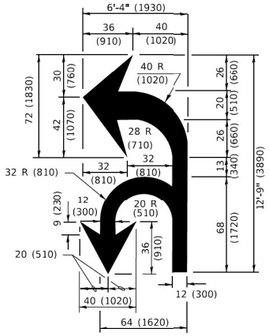


ISLAND OFFSET FROM PAVEMENT EDGE

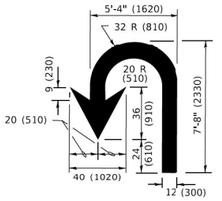


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

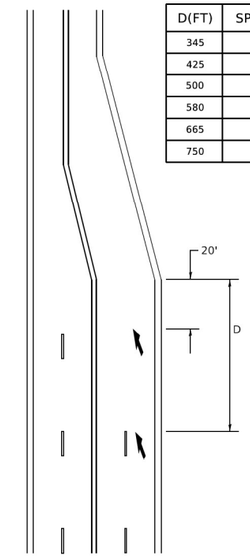


COMBINATION LEFT AND U–TURN



U–TURN

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



LANE REDUCTION TRANSITION

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

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	5½ (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	2 @ 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; 5½ (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 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (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" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m² EACH "X"=54.0 SQ. FT. (5.0 m ²
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.

MODEL: Default
FILE NAME: P:\Pr20\20-4094-00 IDOT Various Phase 2 (PTB 196 Item 16)\WO 29 62T08\BIGGN\CADD Sheets\62T08-sht-STANDARDS-04.dgn

INFRASTRUCTURE ENGINEERING | INCORPORATED
1 South Wacker | Suite 2650 | Chicago, IL 60606
P 312.427.6580 | F 312.427.6584 | www.infrastructure-eng.com

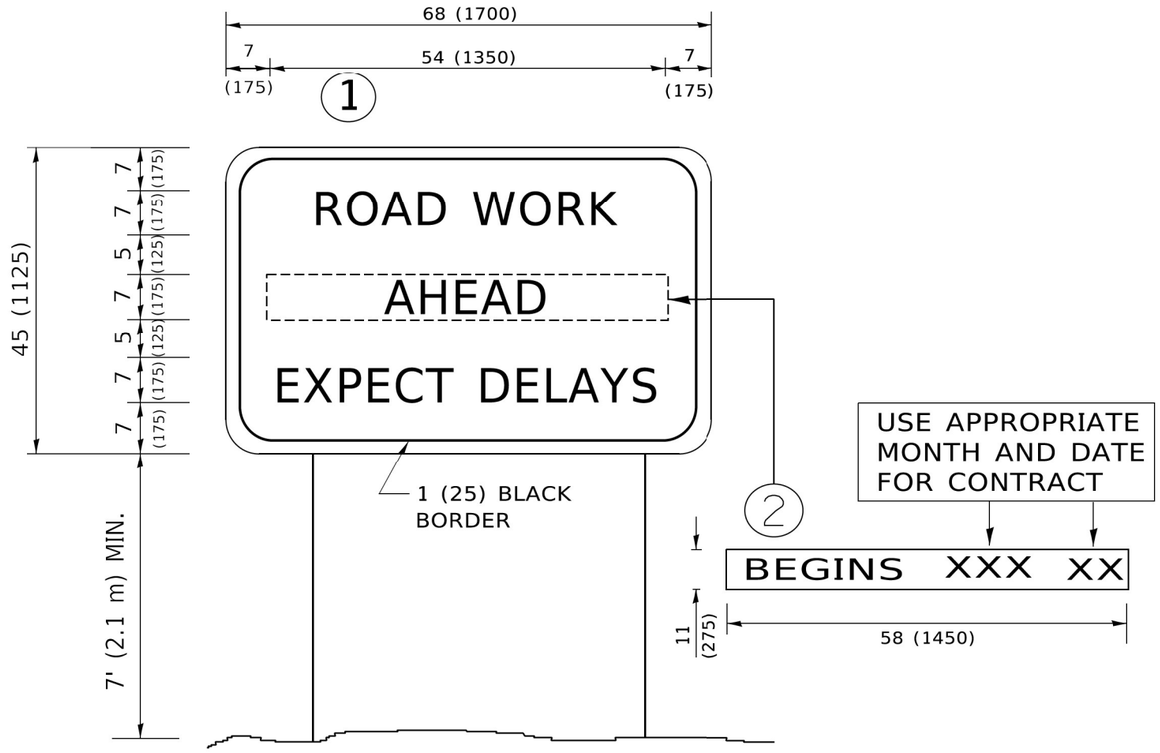
USER NAME = CWinata	DESIGNED - CW	REVISED -	
	DRAWN - CW	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - ACL	REVISED -	
PLOT DATE = 6/29/2023	DATE - 06/28/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – TYPICAL PAVEMENT MARKINGS (TC–13)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	27
		CONTRACT NO. 62T08		
	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.

INFRASTRUCTURE ENGINEERING | INCORPORATED
1 South Wacker | Suite 2650 | Chicago, IL 60606
P 312.423.9500 | F 312.423.9504 | www.infrastructure-eng.com

USER NAME = CWinata	DESIGNED - CW	REVISED -	
	DRAWN - CW	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - ACL	REVISED -	
PLOT DATE = 6/29/2023	DATE - 06/28/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE – ARTERIAL ROAD INFORMATION SIGN (TC–22)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ2	LAKE	28	28
		CONTRACT NO. 62T08		
	ILLINOIS FED. AID PROJECT			