

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9/1	1314.1-I	COOK	70	1
			ILLINOIS	CONTRACT NO. 60M72

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

FAI 94_I-94 /US 41 AT IL 68 (DUNDEE ROAD)
SECTION 1314.1 - I
PROJECT NHPP-MX3I(058)
BRIDGE DECK OVERLAY/BRIDGE JOINT REPAIR
COOK COUNTY
C-91-157-11

TRAFFIC DATA:

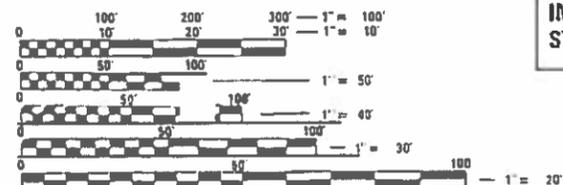
I-94
EXISTING ADT = 139,400 (2017)
POSTED SPEED = 55 MPH

DUNDEE RD
EXISTING ADT = 34,300 (2017)
POSTED SPEED = 35 MPH

FUNCTIONAL CLASSIFICATION:
DUNDEE RD = OTHER PRINCIPAL ARTERIAL
I-94 = INTERSTATE

IL 68 (DUNDEE RD)
OVER I-94
STRUCTURE NO. 016-0939

PROJECT IS LOCATED IN THE
VILLAGE OF NORTHBROOK



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

IMPROVEMENT BEGINS
STA. 117 + 00

IMPROVEMENT ENDS
STA. 121 + 42



NORTHFIELD TOWNSHIP

AES SERVICES INC.
SHEETS
1-26, 63-70.

M. M. Orent

DATE: 11/12/2018
M. LICENSED PROFESSIONAL
LICENSE EXPIRES ON 11/30/2019

HBM ENGINEERING
SHEETS
38-62.

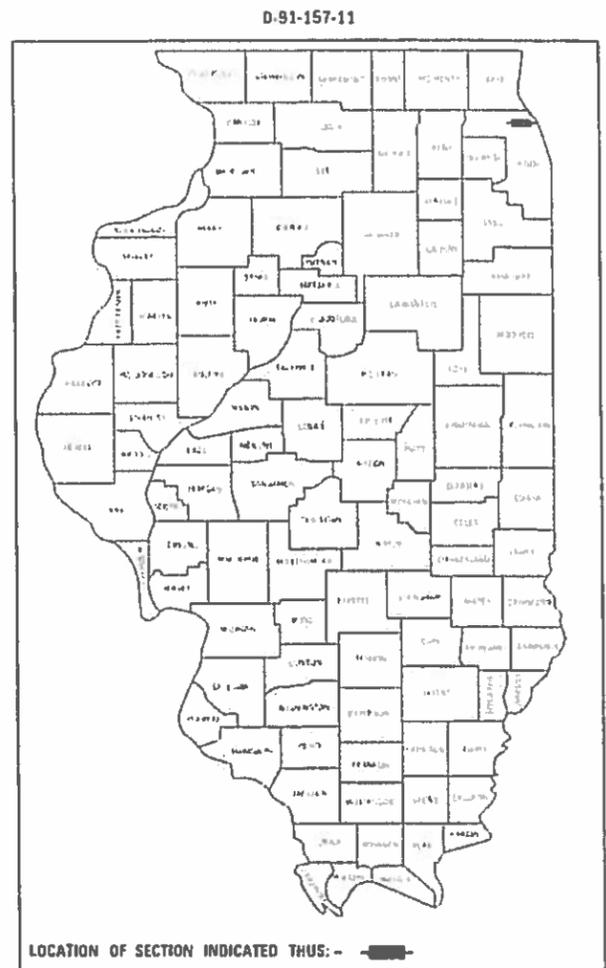
Mousa A. Issa

DATE: 11/12/2018
M. LICENSED PROFESSIONAL
LICENSE EXPIRES ON 11/30/2020

HBM ENGINEERING
LIGHTING PLANS
SHEETS
27-37.

Mohamed A. Hammad

DATE: 11/12/2018
M. LICENSED PROFESSIONAL
LICENSE EXPIRES ON 11/30/2019



HBM ENGINEERING

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 4 20 18

Anthony J. Reigley / *CRS*
FEB 1 2019
REGIONAL ENGINEER

Paul J. [Signature]
FEB 9 2019
ENGINEER OF DESIGN AND ENVIRONMENT

Paul J. [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT MANAGER: FAWAD AQUEEL, PE, PTOE (847) 705-4247

GROSS LENGTH OF PROJECT = 442 FEET = 0.08 MILE
NET LENGTH OF PROJECT = 442 FEET = 0.08 MILE

CONTRACT NO. 60M72

AES ENGINEERS & SURVEYORS
111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES AND COMMITMENTS
3-7	SUMMARY OF QUANTITIES
8	SCHEDULE OF QUANTITIES
9	PLAN & PAVEMENT MARKING
10-26	TRAFFIC CONTROL & PROTECTION
27-37	ELECTRICAL PLANS
38-62	S.N 016-0939 - BRIDGE REPAIR PLANS
63	BD-32 DISTRICT ONE - BUTT JOINT AND HMA TAPER DETAILS
64	TC-08 ENTRANCE AND EXIT RAMP CLOSURE DETAILS
65	TC-09 FREEWAY SINGLE AND MULTILANE WEAVE
66	TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
67	TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT
68	TC-13 DISTRICT ONE - TYPICAL PAVEMENT MARKINGS
69	TC-17 TRAFFIC CONTROL FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
70	TC-22 DISTRICT ONE - ARTERIAL ROAD INFORMATION SIGN

STATE STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTI-LANE, MORE THAN 15' AWAY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTI-LANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPEERATION, FOR SPEEDS ≤ 40 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL,FREEWAY/EXPRESSWAY
701446-09	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2 W WITH NONTRAVERSABLE MEDIAN
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

COMMITMENTS

NONE

GENERAL NOTES:

1. THESE PLANS HAVE BEEN PREPARED FROM INFORMATION ACQUIRED FROM EXISTING PLANS AND NOTES RECEIVED FROM IDOT FIELD MAINTENANCE ENGINEERS.
2. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO VARIATIONS FOUND IN THE FIELD. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. ANY ADJUSTMENTS PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE.
3. FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) OR 811 FOR LOCATIONS OF THE EXISTING UTILITIES.
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. 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.
6. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
7. 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.
8. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTION IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AS WELL AS ADJOINING RESIDENTIAL AREAS.
9. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ASSURE THAT NO DEBRIS FALLS ON TO THE EDENS EXPRESSWAY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS.
11. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 FOR ARTERIALS AND (847) 705-4151 FOR EXPRESSWAYS A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.
12. THE RESIDENT ENGINEER SHALL CONTACT DON CHIARUGI, IDOT'S AREA TRAFFIC FIELD ENGINEER, VIA E-MAIL AT DON.CHIARUGI@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
13. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
14. ACCESS SHALL BE PROVIDED AT ALL TIMES TO PROPERTIES ABUTTING THE PROPOSED IMPROVEMENT.
15. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

MODEL: D:\m\h\p\... FILE NAME: \0\IDOT\60618002.06_PTB\ISS_002_W06_60M72_IL68\F09A01\CADD\Sheet2_D160M72_IL68\F09A01-CH-gennotes.dgn



111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

USER NAME = mokrent	DESIGNED - TOM	REVISED -
DRAWN - TOM	CHECKED - MO	REVISED -
PLOT SCALE = 2,0000 ' / in.	DATE - 12/12/2018	REVISED -
PLOT DATE = 12/17/2018		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
INDEX OF SHEETS, STATE STANDARDS
GENERAL NOTES AND COMMITMENTS**

SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	02
CONTRACT NO. 60M72			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				90% FED 10% STATE	90% FED 10% STATE
				BRIDGE	SAFETY
				0013	0021
				SN 016-0939	
28100107	STONE RIPRAP, CLASS A4	SQ YD	218	218	
28200200	FILTER FABRIC	SQ YD	311	311	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	523	523	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	466	466	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	115	115	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	100	100	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	326	326	
44000600	SIDEWALK REMOVAL	SQ FT	100	100	
45200300	JOINT OR CRACK FILLING	POUND	26	26	
50102400	CONCRETE REMOVAL	CU YD	28.6	28.6	
50157300	PROTECTIVE SHIELD	SQ YD	1452	1452	
50300225	CONCRETE STRUCTURES	CU YD	1.6	1.6	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	29	29	
50300260	BRIDGE DECK GROOVING	SQ YD	1910	1910	

* SPECIALTY ITEMS

MODEL D:\6072\11111111\DOT\60618002\06_PTB\105_002\W06_60M72_IL68\F09A01\CADD\Sheet3_D160M72_IL68\F09A01-SP-S00_1.dgn



111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

USER NAME = tmohammed
DESIGNED - TOM
DRAWN - TOM
CHECKED - MO
DATE - 12/12/2018

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 5 SHEETS STA. OF TO STA.

F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	03
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				90% FED 10% STATE	90% FED 10% STATE
				BRIDGE	SAFETY
				0013	0021
				SN 016-0939	
50300300	PROTECTIVE COAT	SQ YD	74	74	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3940	3940	
50800515	BAR SPLICERS	EACH	52	52	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	188	188	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	326	326	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7	
67100100	MOBILIZATION	L SUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	905	905	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	300	300	
70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SQ FT	21	21	
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	4511	4511	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1200	1,200	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1115	1115	
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	3	3	

* SPECIALTY ITEMS

MODEL: D:\6072
FILE NAME: \3\02\DOT\60618002.06_PTB\185_002_V06_60M72_IL68\F09\A01\CADD\Sheet14_D160M72_IL68\F09\F09-SP-S002_2.dgn



111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

USER NAME = tmohammed
DESIGNED - TOM
DRAWN - TOM
CHECKED - MO
DATE - 12/12/2018

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	04
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60M72	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				90% FED 10% STATE	90% FED 10% STATE
				BRIDGE	SAFETY
				0013	0021
				SN 016-0939	
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2547	2547	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	40	40	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	2547	2547	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	24	24	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1308	1308	
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	71	71	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4	4	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	88	88	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4	4	
* 81100220	CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA., PVC COATED GALVANIZED STEEL	FOOT	20		20
* 81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	330		330
* 81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	340		340
* 81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	100		100

*= SPECIALTY ITEM

* SPECIALTY ITEMS

MODEL: D:\64bit
 FILE NAME: \3\02\DOT\60618002.06_PTB\185_002_V06_60M72_IL68\FAIR\01\CADD\Sheets\1_D160M72_IL68\FAIR\4-18-500_3.dgn



111 S. Wacker Drive,
 Suite 3910
 Chicago, IL 60606
 Ph: 312-235-6783

USER NAME = tmohammed
 DESIGNED - TOM
 DRAWN - TOM
 CHECKED - MO
 DATE - 12/12/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
 SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	05
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60M72	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				90% FED 10% STATE	90% FED 10% STATE
				BRIDGE	SAFETY
				0013	0021
				SN 016-0939	
* 81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	8		8
* 81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	4		4
* 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1378		1378
* 81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	1080		1080
* 81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	3420		3420
* 89500510	CABINET HOUSING EQUIPMENT REMOVAL	EACH	1		1
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3000		3000
* X0322446	CABINET HOUSING EQUIPMENT, TYPE III	EACH	1		1
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1713	1713	
* X1400249	LUMINAIRE, UNDERPASS, LED, TYPE C	EACH	8		8
* X1400342	UNDERPASS LIGHTING REMOVAL	L SUM	1		1
* X2700003	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	141	141	
* X2700004	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7"	FOOT	141	141	
* X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1	

*= SPECIALTY ITEM

* SPECIALTY ITEMS

MODEL D:\64\11111111\DOT\60618002.06_PTB\185_002_W06_60M72_IL68\FAIR\01\CADD\Sheet6_D160M72_IL68\FAIR\4-18-500_4.dgn



111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

USER NAME = tmohammed
DESIGNED - TOM
DRAWN - TOM
CHECKED - MO
DATE - 12/12/2018

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
SUMMARY OF QUANTITIES

SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	06
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE	
90% FED 10% STATE	90% FED 10% STATE
BRIDGE	SAFETY
0013	0021
SN 016-0939	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	90% FED 10% STATE	90% FED 10% STATE
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1	
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	19	19	
Z0001905	STRUCTURAL STEEL REPAIR	POUND	385	385	
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	2001	2001	
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	2001	2001	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	1084	1084	
Z0015595	DECK DRAIN EXTENSIONS	EACH	3	3	
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	11	11	
Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	8	8	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	232	232	
* Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	4		4
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1	

* = SPECIALTY ITEM

* SPECIALTY ITEMS

MODEL: D:\a\h\1
 FILE NAME: \3\0\DOT\60618002_06_PTB\185_002_W06_60M72_IL68\FAIR\01\CADD\SHEET17_D160M72_IL68\FAIR\4-18-2018\5.dgn



111 S. Wacker Drive,
 Suite 3910
 Chicago, IL 60606
 Ph: 312-235-6783

USER NAME = tmohammed	DESIGNED - TOM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/6/2018	DATE - 12/12/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
SUMMARY OF QUANTITIES

SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	07
CONTRACT NO. 60M72			ILLINOIS FED. AID PROJECT	

PAVEMENT MARKING TAPE, TYPE IV SCHEDULE

LOCATION	SIDE	DESCRIPTION	70300904		70300906
			PAVEMENT MARKING TAPE, TYPE IV 4" (FOOT)	(YELLOW)	PAVEMENT MARKING TAPE, TYPE IV 6" (FOOT)
STATION TO STATION	LT/RT		LINE 4"	LINE 4"	(WHITE)
STAGE 1					
115+70.00 TO 116+70.00	LT	DOWNSTREAM TAPER	100	-	-
116+70.00 TO 121+00.00	LT	TANGENT	430	-	-
122+00.00 TO 124+00.00	LT	TANGENT	200	-	-
114+00.00 TO 116+50.00	RT	UPSTREAM TAPER	250	-	-
116+50.00 TO 122+68.00	RT	TANGENT	618	-	-
122+68.00 TO 123+68.00	RT	DOWNSTREAM TAPER	100	-	-
RAMP	LT/RT		100	100	-
STAGE 2					
114+90.00 TO 116+75.00	LT	DOWNSTREAM TAPER	-	-	39
115+20.00 TO 116+75.00	LT	DOWNSTREAM TAPER	310	-	-
116+75.00 TO 121+00.00	LT	TANGENT	425	425	106
121+00.00 TO 122+20.00	LT	TANGENT	240	120	-
122+20.00 TO 123+20.00	LT	TANGENT	-	100	-
113+75.00 TO 116+25.00	RT	UPSTREAM TAPER	-	250	-
116+25.00 TO 122+68.00	RT	TANGENT	-	643	-
122+68.00 TO 123+68.00	RT	DOWNSTREAM TAPER	-	100	-
TOTAL	LT/RT		2773	1738	145

TEMPORARY CONCRETE BARRIER SCHEDULE

LOCATION	SIDE	70400100	70400200
		TEMPORARY CONCRETE BARRIER (FOOT)	RELOCATE TEMPORARY CONCRETE BARRIER (FOOT)
STATION TO STATION	LT/RT		
STAGE 1			
116+75.00 TO 121+00.00	LT	425	-
121+00.00 TO 121+45.00	LT	45	-
122+54.00 TO 123+04.00	LT	50	-
123+04.00 TO 123+84.00	LT	80	-
116+25.00 TO 116+75.00	RT	50	-
116+75.00 TO 122+25.00	RT	550	-
STAGE 2			
116+75.00 TO 121+70.00	LT	-	495
121+70.00 TO 122+45.00	LT	-	75
116+25.00 TO 116+75.00	RT	-	50
116+75.00 TO 121+70.00	RT	-	495
TOTAL	LT/RT	1200	1115

SHORT TERM PAVEMENT MARKING SCHEDULE

LOCATION	SIDE	70300100		70300150
		SHORT TERM PAVEMENT MARKING LINE 4" (FOOT)	YELLOW	WHITE
STATION TO STATION	LT/RT			
113+64.00 TO 114+90.00	LT	16	-	5
113+64.00 TO 125+92.00	LT/RT	319	319	212
113+64.00 TO 116+47.00	LT	37	-	12
115+00.00 TO 122+16.00	LT	93	-	31
117+35.00 TO 121+07.00	LT/RT	97	-	32
121+42.00 to 122+55.00	LT	15	-	5
ALONG RAMP	LT	9	-	3
TOTAL	LT/RT	586	319	300

HOT MIX ASPHALT SCHEDULE

LOCATION	40600982	40603340	40600290
	HMA SURF REM BUTT JOINT (SQ YD)	HMA SC "D" N70 (TON)	BIT MATLS TACK CT (POUND)
117+00 TO 117+35 (RT)	93	9	42
117+00 TO 117+35 (LT)	140	14	63
117+35 TO 117+94 (RT)	-	17	72
117+35 TO 117+75 (LT)	-	16	104
120+75 TO 121+07 (RT)	-	13	59
120+57 TO 121+07 (LT)	-	23	78
121+07 TO 121+42 (RT)	93	9	42
121+07 TO 121+42 (LT)	140	14	63
TOTAL	466	115	523

PAVEMENT MARKING SCHEDULE

LOCATION	SIDE	78000200					78000400			78000500		78000600		7800904			7800908			X2700004	X0327979
		THERMOPLASTIC PAVEMENT MARKING (FOOT)										MODIFIED URETHANE PAVEMENT MARKING (FOOT)			PREFORMED PLASTIC PAVEMENT MARKING, TYPE B	PAVEMENT MARKING REMOVAL					
		(YELLOW)	(WHITE)				(YELLOW)	(WHITE)		LINE 7"	(SQ. FT.)										
STATION TO STATION	LT/RT	LINE 4"	LINE 4"	LINE 6"	LINE 8"	LINE 12"	LINE 4"	LINE 4"	LINE 8"	LINE 7"											
113+64.00 TO 117+85.00	LT/RT	820	305.50	40	499	-	-	-	-	-	-	-	-	-	-	-	-	-	-	636	
117+85.00 TO 120+65.00	LT/RT	-	-	-	-	-	564	744	71	141										500	
120+65.00 TO 126+00.00	LT/RT	1070	351.50	-	132	-	-	-	-	-										535	
121+42.00 TO 122+51.00 (WITH RAMP GORE)	LT	-	-	-	63	24	-	-	-	-										42	
TOTAL	LT/RT	1890	657	40	694	24	564	744	71	141										1713	

RAISED REF PVT MK REMOVAL AND PLACEMENT

LOCATION	78300200	78100100
	RAISED REF PVT MK REM (EACH)	RAISED REF PVT MKR (EACH)
117+29 (RT)	1	1
121+26 (RT)	1	1
121+40 (RT)	1	1
121+40 (LT)	1	1
TOTAL	4	4

NOTE: ACTUAL LOCATION WILL BE SAME AS EXISTING.

CURB AND GUTTER REMOVAL AND REPLACEMENT

LOCATION		44000500	6060500
		CURB AND GUTTER REMOVAL (FOOT)	COMB. CONC. C & G, TYPE B-6.24 (FOOT)
117+00.00 TO 117+62.00	NW	62	62
120+40.00 TO 121+43.00	NE	103	103
117+00.00 TO 118+00.00	SW	100	100
120+82.00 TO 121+43.00	SE	61	61
TOTAL		326	326

MODEL: D:\a\h\... FILE NAME: \03\DOT\60618002.06_PTB\ISS_002_W06_60M72_IL68\FAR\A01\CADD\Schedr18_D160M72_IL68\FAR\A01\ch-Schedule.dgn



111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783

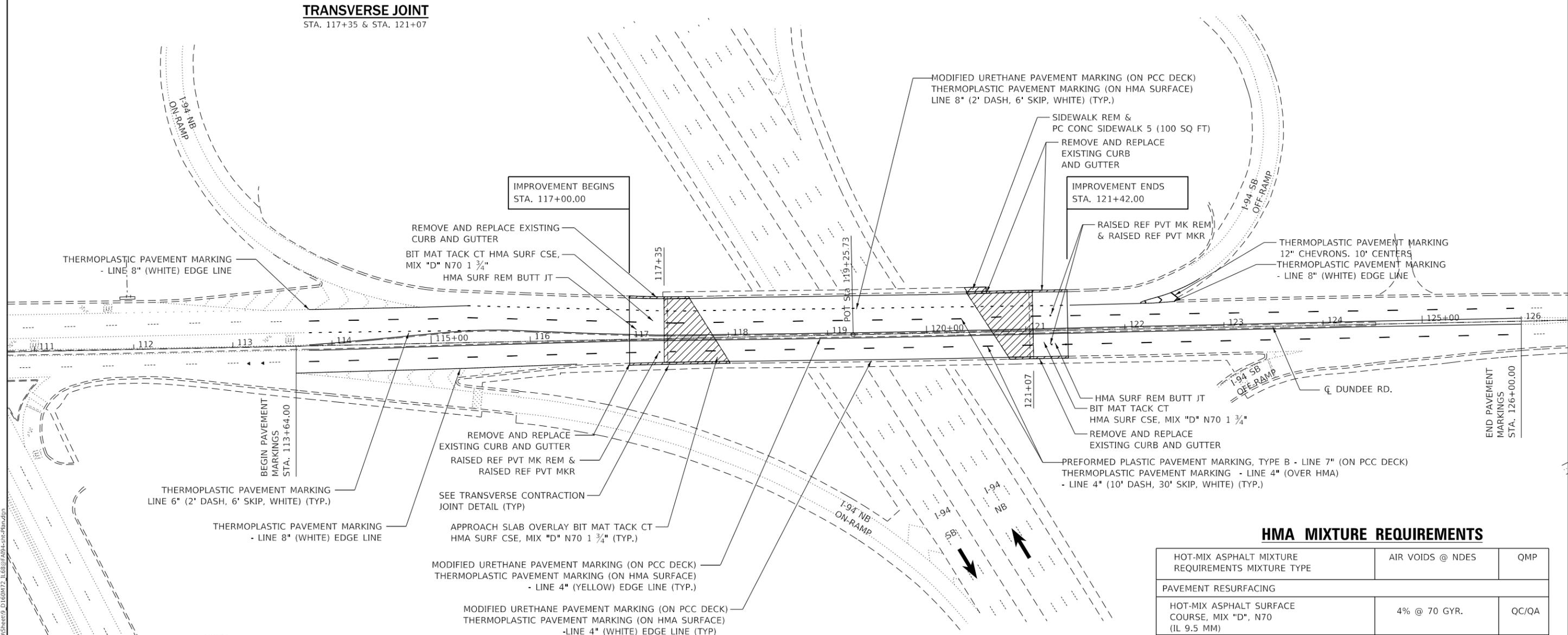
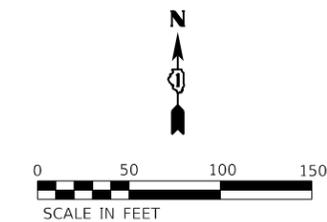
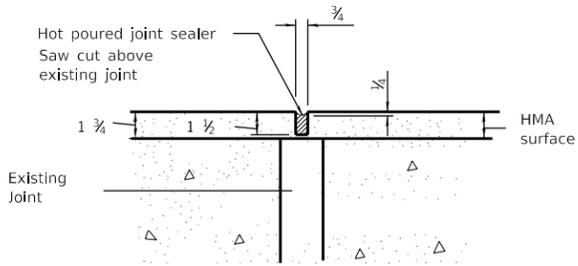
USER NAME = tmoahammed	DESIGNED - TOM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = 2,000 ' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/6/2018	DATE - 12/12/2018	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94 SCHEDULE OF QUANTITIES

SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	08
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				



- NOTES:
1. TYPICAL PAVEMENT MARKINGS INSTALLED ACCORDING TO IDOT D1 DETAIL TC-13
 2. THE PROPOSED PAVEMENT MARKINGS SHALL BE PLACED IN THE SAME LOCATIONS AS THE EXISTING PAVEMENT MARKINGS OR AS DIRECTED BY THE ENGINEER.
 3. NEW CURB AND GUTTER WILL BE PLACED TO MATCH PROPOSED GRADES AFTER THE BUTT JOINT IS PLACED.
 4. BUSHES AT SW WINGWALL (APPROX. STA. 118+00) SHALL BE CLEARED PER ARTICLE 201.01(a) AND 201.08.

HMA MIXTURE REQUIREMENTS		
HOT-MIX ASPHALT MIXTURE REQUIREMENTS MIXTURE TYPE	AIR VOIDS @ NDES	QMP
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 MM)	4% @ 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)		

- MIXTURE TABLE NOTES**
1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.
 2. THE "AC TYPE" FOR NON POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
 3. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

MODEL: D:\a\111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783
 FILE NAME: \00\DOT\60618002_06_PTB\105_002_V006_60M72_IL68SF\A010\CADD\Sheet9_D160M72_IL68SF\A010-1-18.dwg



USER NAME = mokrent	DESIGNED - TOM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/17/2018	DATE - 12/12/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
PLAN & PAVEMENT MARKING**

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	09
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

TRAFFIC CONTROL GENERAL NOTES

1. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. ALL LANE, RAMP AND SHOULDER CLOSURES ON THE EXPRESSWAY SHALL BE SET UP IN ACCORDANCE WITH 2018 ILLINOIS HIGHWAY STANDARDS FOR TRAFFIC CONTROL 701400, 701401, 701801, 701411, 701428, 701446, 701901, 704001 AND DISTRICT 1 TRAFFIC CONTROL DETAIL TC-17 & TC-10.
3. TYPE A LOW INTENSITY FLASHING WARNING LIGHTS SHALL BE USED ON EACH SIGN IN ADVANCE OF THE WORK DURING HOURS OF DARKNESS. ALL WARNING SIGNS SHALL BE A MINIMUM OF 48" X 48" AND HAVE A BLACK LEGEND AND BORDER ON A FLOURESCENT ORANGE REFLECTORIZED BACKGROUND.
4. ALL TYPE III BARRICADES UTILIZED FOR ROAD CLOSURES SHALL HAVE TWO LOW INTENSITY FLASHING LIGHTS MOUNTED ON TOP OF EACH BARRICADE. MAINTAIN EXISTING TRAFFIC SIGNS.
5. COVER ALL EXISTING TRAFFIC SPEED LIMIT SIGNS WHERE WORK ZONE SPEED LIMIT CHANGES ARE IMPLEMENTED.
6. WHERE ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
7. EXACT LOCATION OF ALL WARNING SIGNS AND BARRICADES SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION.
8. PRIOR TO START OF CONSTRUCTION, ALL REQUIRED TRAFFIC CONTROL DEVICES SHALL BE IN PLACE.
9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 72 HOURS PRIOR TO ANY ANTICIPATED CLOSURES.
10. A MINIMUM 11' LANE WIDTH SHALL BE MAINTAINED ON ALL INTERSTATE LANES OPEN TO TRAFFIC DURING CONSTRUCTION.
11. SIGN W21-1(0)-48 SHALL BE TAKEN DOWN WHEN THE WORKERS ARE NOT PRESENT.
12. THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION, (EXPRESSWAYS). ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST TRAFFIC CONTROL AND PROTECTION (SPECIAL).
13. PLEASE SEE THE CONTRACT SPECIAL PROVISIONS, KEEPING THE EXPRESSWAY OPEN TO TRAFFIC SPECIAL PROVISION FOR ALLOWABLE LANE CLOSURE HOURS.
14. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP AND SHOULDER CLOSURES AND 7 DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.

15. WHEN THE CONTRACTOR IS TO PERFORM ANY WORK THAT COULD RISK THE HEALTH OR SAFETY OF NEARBY PEDESTRIANS, THE CONTRACTOR WILL IMPLEMENT APPROPRIATE MEASURES TO AVOID THE RISK. THIS CAN INCLUDE NIGHT WORK WITH SIDEWALK CLOSURES. IF THE SIDEWALK IS TO BE CLOSED, THE SIDEWALK CLOSED SIGN SHALL BE PLACED. OTHERWISE, IT IS TO BE REMOVED OR COVERED. DAYTIME CLOSURES WILL NOT BE ALLOWED AND THE CONTRACTOR WILL BE RESPONSIBLE FOR APPROPRIATE MEASURES TO PROTECT THE WORK WHILE PEDESTRIANS USE THE WALK; THIS CAN INCLUDE PLANKING OVER AREAS CURING. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR THESE MEASURES.

SUGGESTED CONSTRUCTION SEQUENCE

PRE-STAGE

INSTALL PROTECTIVE SHIELD UNDER SN 016-0939 OVER TWO INSIDE LANES AND SHOULDER OF FAI 94 PER STANDARDS 701446 AND 701400

INSTALL PROTECTIVE SHIELD OVER OUTSIDE LANE AND SHOULDER PER PLAN SHEET AND STANDARDS 701401, 701411 AND 701400

IMPLEMENT STAGE 1 TRAFFIC CONTROL ON SN 016-0939 PER PLANS AND STANDARD 701601 (SEE ALSO BRIDGE STAGING PLAN FOR LANE CONFIGURATION DETAILS).

STAGE 1

PROCEED WITH CONSTRUCTION ON BRIDGE DECK: SCARIFICATION, DECK REPAIR, CONCRETE REPAIR, LATEX OVERLAY, SEALING AND JOINT REPLACEMENT.

CONSTRUCT BUTT JOINT IN ALL QUADRANTS EXCEPT NE QUADRANT AND REPLACE CONCRETE CURB AND GUTTER.

CONTRACTOR MAY PROCEED WITH SUBSTRUCTURE REPAIRS, INCLUDING CONCRETE AND STEEL USING PLANS FOR FAI 94 TRAFFIC CONTROL AND STANDARDS 701101, 701106, 701401, 701428, 701446 AND 701400.

STAGE 2

IMPLEMENT STAGE 2 TRAFFIC CONTROL ON SN 016-0939.

PROCEED WITH CONSTRUCTION ON BRIDGE DECK: SCARIFICATION, DECK REPAIR, CONCRETE REPAIR, LATEX OVERLAY, SEALING AND JOINT REPLACEMENT.

CONSTRUCT BUTT JOINT IN THE FOUR QUADRANTS

CONTRACTOR MAY PROCEED WITH SUBSTRUCTURE REPAIRS, INCLUDING CONCRETE AND STEEL USING PLANS FOR FAI 94 TRAFFIC CONTROL AND STANDARDS 701101, 701428, 701446, 701106, 701401 AND 701400.

STAGE 3

CONSTRUCT BUTT JOINT AT NE QUADRANT (DAY OPERATION)
PLACE FINAL PAVEMENT MARKING UTILIZING STANDARD 701427.

POST-STAGE

REMOVE PROTECTIVE SHIELD PER STANDARD 701400, 701401, 701446, 701428 AND 701411.

MODEL D:\a\h\h\111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783
FILE NAME: \00\DOT\60618002.06_PTB\185_002.W06_60M72_IL68\FAI94\1\CADD\Sheet\10_0160M72_IL68\FAI94-2\TC-01_Traffic.dgn



111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

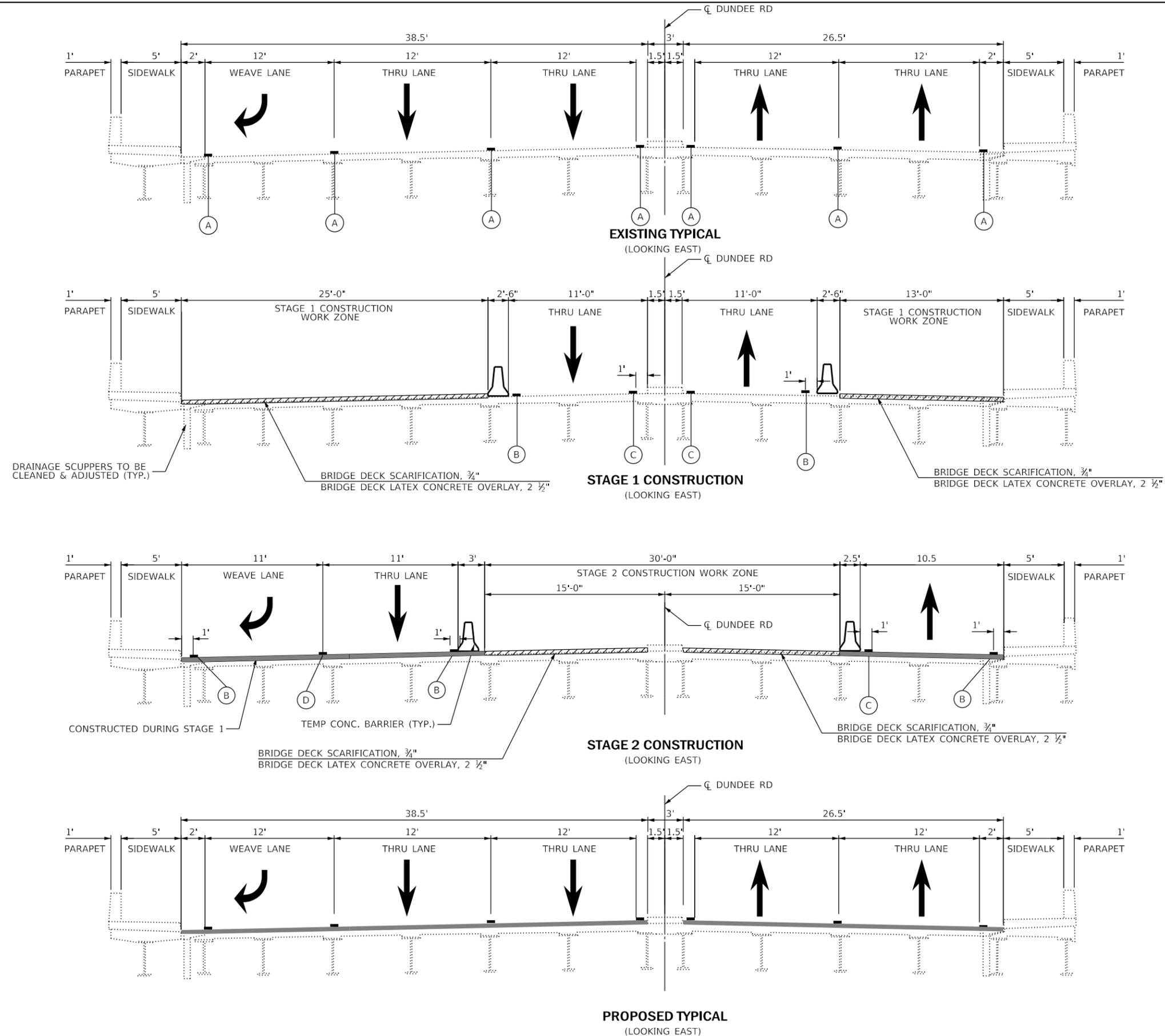
USER NAME = tmoahmed	DESIGNED - TOM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = 2,0000 ' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/6/2018	DATE - 12/12/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
TRAFFIC CONTROL GENERAL NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	10
CONTRACT NO. 60M72			TC-01	
ILLINOIS		FED. AID PROJECT		

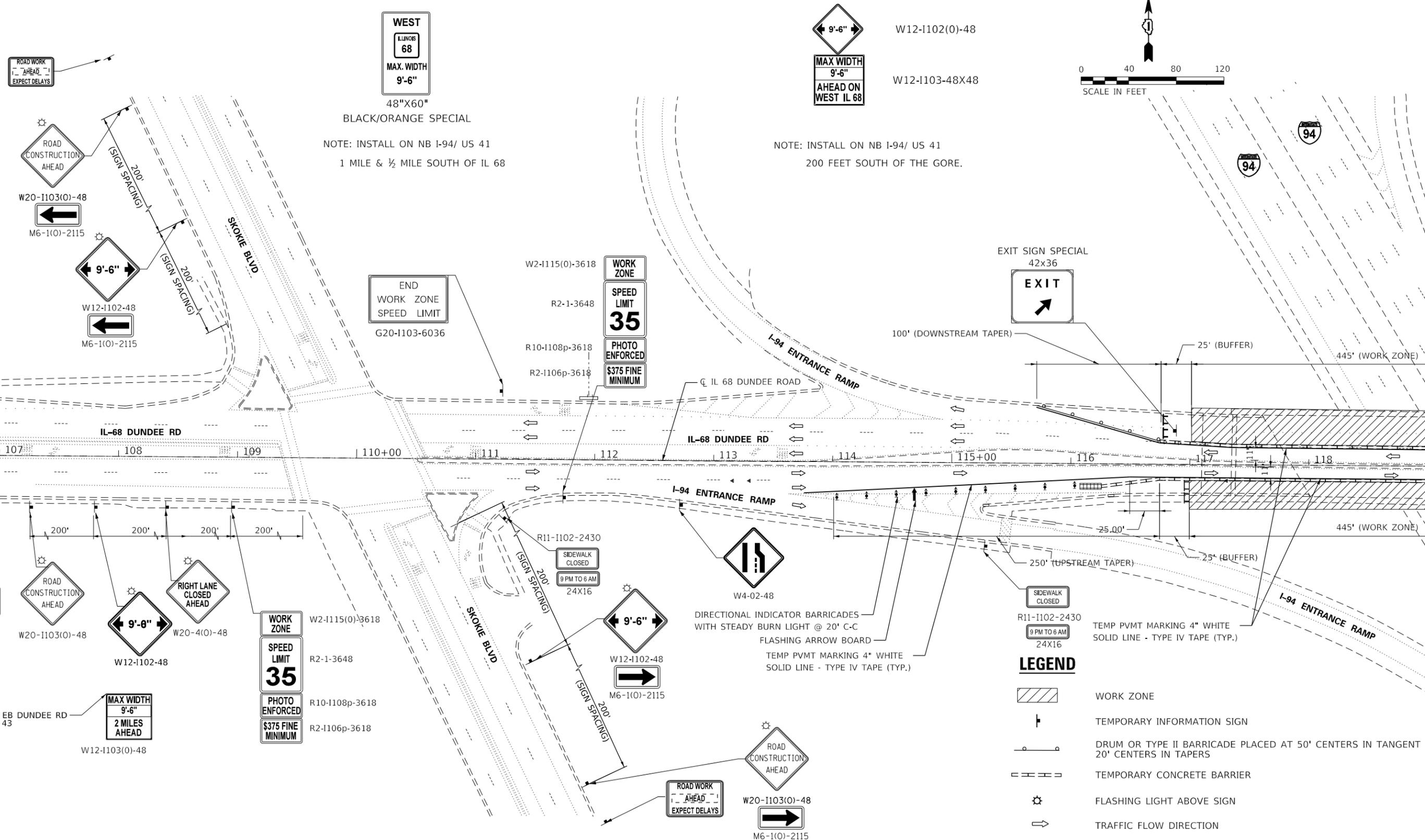
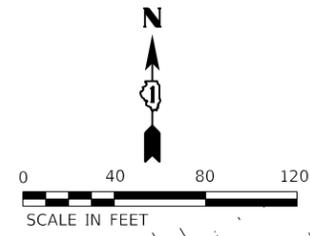


- (A) EXISTING PAVEMENT MARKING
- (B) TEMPORARY PAVEMENT MARKING 4" WHITE LINE - TAPE TYPE IV
- (C) TEMPORARY PAVEMENT MARKING 4" YELLOW LINE - TAPE TYPE IV
- (D) TEMPORARY PAVEMENT MARKING 8" WHITE LINE - TAPE TYPE IV 2' LINE 6' SKIP.

MODEL: D:\64\11
 FILE NAME: \3\0\DOT\606\60M72_02_PTB\05_002_W06_60M72_IL68\F09\01\CADD\Sheet11_D160M72_IL68\F09\01\A94-94-94-MOT_Typical.dgn

USER NAME = tmohammed	DESIGNED - TOM	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - TOM	REVISED -
PLOT DATE = 12/6/2018	CHECKED - MO	REVISED -
	DATE - 12/12/2018	REVISED -

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	11
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				



DUNDEE ROAD STAGE 1

LEGEND

	WORK ZONE
	TEMPORARY INFORMATION SIGN
	DRUM OR TYPE II BARRICADE PLACED AT 50' CENTERS IN TANGENT 20' CENTERS IN TAPERS
	TEMPORARY CONCRETE BARRIER
	FLASHING LIGHT ABOVE SIGN
	TRAFFIC FLOW DIRECTION
	TYPE III BARRICADES
	IMPACT ATTENUATORS NARROW (REDIRECTIVE), TEST LEVEL 2
	DIRECTIONAL INDICATOR BARRICADES WITH STEADY BURN LIGHT @ 20' C-C

ALL DIMENSIONS ARE F-F

USER NAME = mokrent	DESIGNED - TOM	REVISED -
PLOT SCALE = 80.0000' / in.	DRAWN - TOM	REVISED -
PLOT DATE = 12/17/2018	CHECKED - MO	REVISED -
	DATE - 12/12/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
SUGGESTED TRAFFIC CONTROL PLAN STAGE 1 - SHEET 1

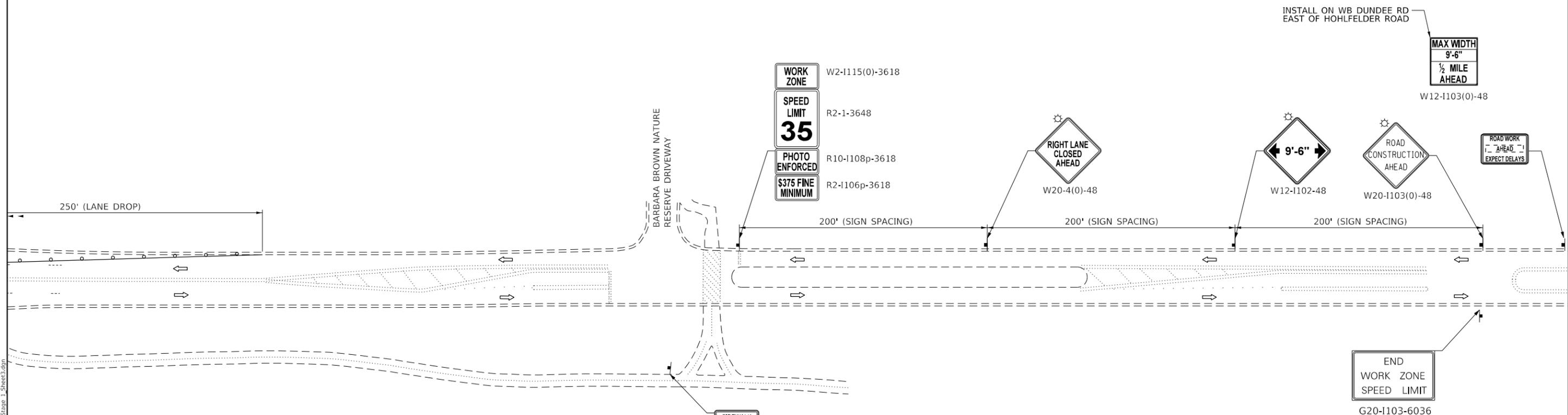
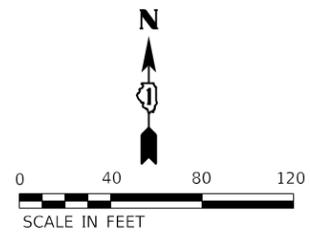
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	12
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

MODEL: D:\a\111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783
 FILE NAME: W:\02DOT606\18002.06_PTB\185_002_W06_60M72_IL68STRA101\CADD\Sheet12_D160M72_IL68STRA101_Dundee_Road_Stage_1_Sheet1.dwg



111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

TC-03



DUNDEE ROAD STAGE 1

LEGEND

- WORK ZONE
- TEMPORARY INFORMATION SIGN
- DRUM OR TYPE II BARRICADE PLACED AT 50' CENTERS IN TANGENT 20' CENTERS IN TAPERS
- TEMPORARY CONCRETE BARRIER
- FLASHING LIGHT ABOVE SIGN
- TRAFFIC FLOW DIRECTION
- TYPE III BARRICADES
- IMPACT ATTENUATORS NARROW (REDIRECTIVE), TEST LEVEL 2
- DIRECTIONAL INDICATOR BARRICADES WITH STEADY BURN LIGHT @ 20' C-C

ALL DIMENSIONS ARE F-F

TC-05 111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783 AES ENGINEERS & SURVEYORS	USER NAME = mokrent PLOT SCALE = 80.0000 ' / in. PLOT DATE = 12/17/2018	DESIGNED - TOM DRAWN - TOM CHECKED - MO DATE - 12/12/2018	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94 SUGGESTED TRAFFIC CONTROL PLAN STAGE 1 - SHEET 3	F.A.J. RTE. 94	SECTION 1314.1-I	COUNTY COOK	TOTAL SHEETS 70	SHEET NO. 14
	SCALE: SHEET OF SHEETS STA. TO STA.						CONTRACT NO. 60M72 ILLINOIS FED. AID PROJECT			

TC-05
 111 S. Wacker Drive,
 Suite 3910
 Chicago, IL 60606
 Ph: 312-235-6783
AES
 ENGINEERS & SURVEYORS



WEST
ILLINOIS
68
MAX. WIDTH
10'-0"

48"X60"
BLACK/ORANGE SPECIAL
NOTE: INSTALL ON NB I-94/ US 41
1 MILE & 1/2 MILE SOUTH OF IL 68

W12-1102(0)-48
W12-1103-48X48
MAX WIDTH
10'-0"
AHEAD ON
WEST IL 68

NOTE: INSTALL ON NB I-94/ US 41
200 FEET SOUTH OF THE GORE.

ROAD WORK
AHEAD
EXPECT DELAYS

ROAD
CONSTRUCTION
AHEAD
W20-1103(0)-48
M6-1(0)-2115

W12-1102-48
M6-1(0)-2115
9'-0"

END
WORK ZONE
SPEED LIMIT
G20-1103-6036

W2-1115(0)-3618
R2-1-3648
R10-1108p-3618
R2-1106p-3618
WORK ZONE
SPEED LIMIT
35
PHOTO ENFORCED
\$375 FINE MINIMUM

TEMP PVMT MARKING 4" YELLOW
SOLID LINE - TYPE IV TAPE (TYP.)
TEMP PVMT MARKING 6" WHITE LINE
- TAPE TYPE IV 2' LINE, 6' SKIP.
TEMP PVMT MARKING 4" WHITE
SOLID LINE - TYPE IV TAPE (TYP.)
DRUM PLACED AT 20'
CENTERS IN TAPER

TEMP PVMT MARKING 6" WHITE LINE
- TAPE TYPE IV 2' LINE, 6' SKIP.

W1-4B(0)-48
W13-I(0)-2424
30
MPH

IL-68 DUNDEE RD

IL-68 DUNDEE RD

I-94 ENTRANCE RAMP

SKOKE BLVD

200' 200' 200' 200'

W20-1103(0)-48

W12-1102-48

LEFT LANE
CLOSED
AHEAD
W20-4(0)-48

WORK ZONE
SPEED LIMIT
35
PHOTO ENFORCED
\$375 FINE MINIMUM
W2-1115(0)-3618
R2-1-3648
R10-1108p-3618
R2-1106p-3618

W12-1102-48
M6-1(0)-2115
9'-0"

W4-02-48

ROAD
CONSTRUCTION
AHEAD
W20-1103(0)-48
M6-1(0)-2115

ROAD WORK
AHEAD
EXPECT DELAYS

250' (UPSTREAM TAPER)

50'

100' (DOWNSTREAM TAPER)

50'

440' (WORK ZONE)

FLASHING ARROW BOARD
DIRECTIONAL INDICATOR BARRICADES
WITH STEADY BURN LIGHT @ 20' C-C

TEMPORARY PAVEMENT MARKING
4" YELLOW LINE - TAPE TYPE IV (TYP.)

LEGEND

- WORK ZONE
- TEMPORARY INFORMATION SIGN
- DRUM OR TYPE II BARRICADE PLACED AT 50' CENTERS IN TANGENT
20' CENTERS IN TAPERS
- TEMPORARY CONCRETE BARRIER
- FLASHING LIGHT ABOVE SIGN
- TRAFFIC FLOW DIRECTION
- TYPE III BARRICADES
- IMPACT ATTENUATORS NARROW (REDIRECTIVE), TEST LEVEL 2
- DIRECTIONAL INDICATOR BARRICADES
WITH STEADY BURN LIGHT @ 20' C-C

ALL DIMENSIONS ARE F-F

DUNDEE ROAD STAGE 2

MODEL: D:\a\111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783
FILE NAME: \00\00\DOT\60M72\02_06_PTB\105_002_V06_60M72_IL68STFA010\CAD\Sheet15.D 16/01/2018 11:59:41 AM
DUNDEE RD STAGE 2 SHEET 1.DWG



USER NAME = mokrent	DESIGNED - TOM	REVISED -
DRAWN - TOM	REVISED -	
CHECKED - MO	REVISED -	
DATE - 12/12/2018	REVISED -	

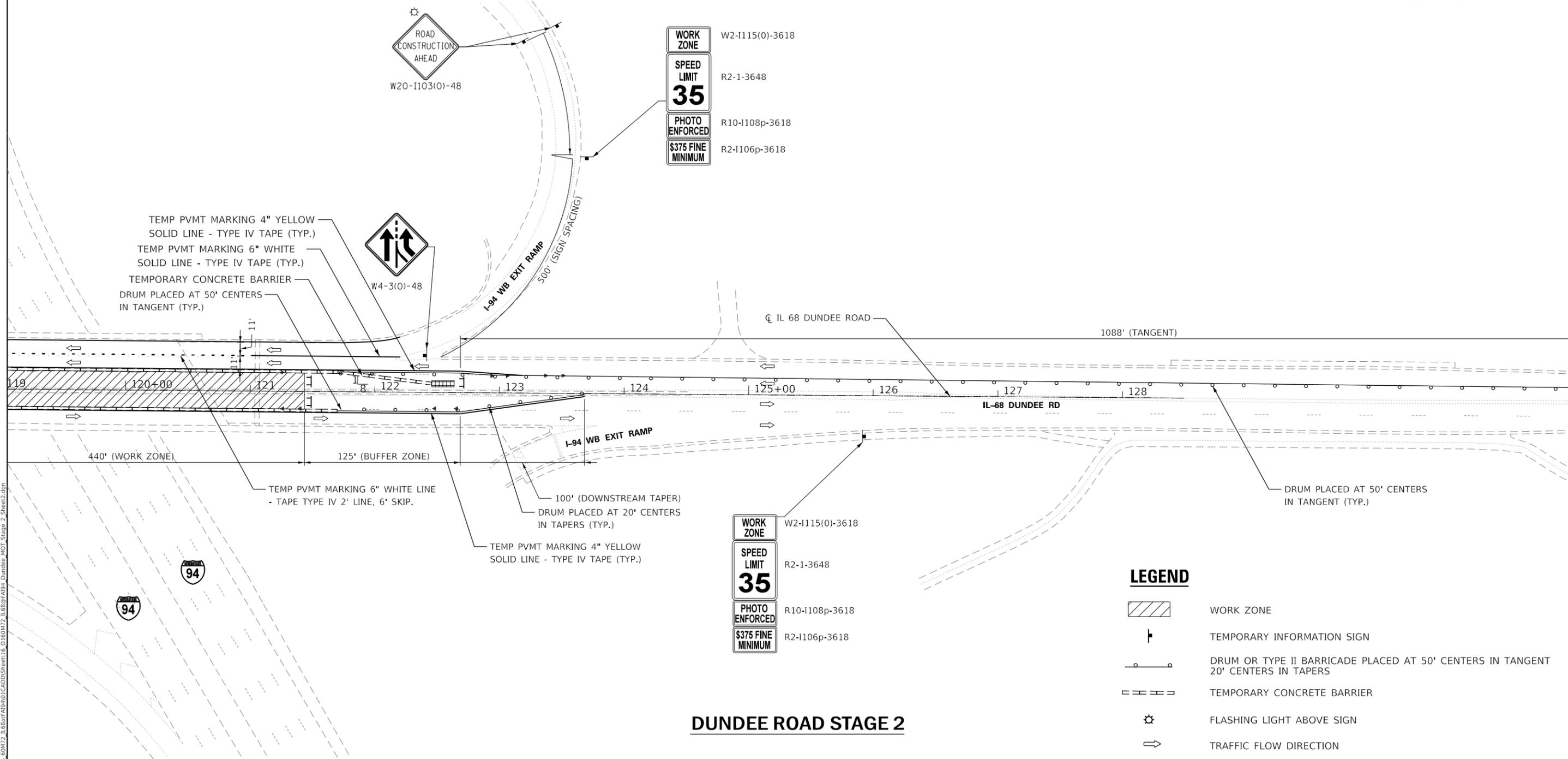
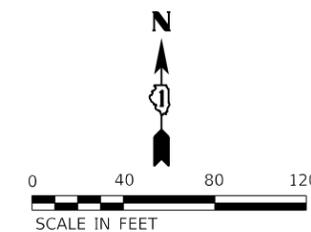
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
SUGGESTED TRAFFIC CONTROL PLAN STAGE 2 - SHEET 1**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	15
CONTRACT NO. 60M72				
ILLINOIS		FED. AID PROJECT		

TC-06



DUNDEE ROAD STAGE 2

LEGEND

- WORK ZONE
- TEMPORARY INFORMATION SIGN
- DRUM OR TYPE II BARRICADE PLACED AT 50' CENTERS IN TANGENT
20' CENTERS IN TAPERS
- TEMPORARY CONCRETE BARRIER
- FLASHING LIGHT ABOVE SIGN
- TRAFFIC FLOW DIRECTION
- TYPE III BARRICADES
- IMPACT ATTENUATORS NARROW (REDIRECTIVE), TEST LEVEL 2
- DIRECTIONAL INDICATOR BARRICADES
WITH STEADY BURN LIGHT @ 20' C-C

ALL DIMENSIONS ARE F-F

MODEL: D:\a\111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783
 FILE NAME: \00\DOT\60618002.06_PTB\105_002_W06_60M72_IL68RFAI94\100\CAD\Sheet1.E_D160M72_IL68RFAI94_Dundee_R0T_Stage_2_Sheet2.dwg



USER NAME = tmohammed	DESIGNED - TOM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = 80.0000' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/6/2018	DATE - 12/12/2018	REVISED -

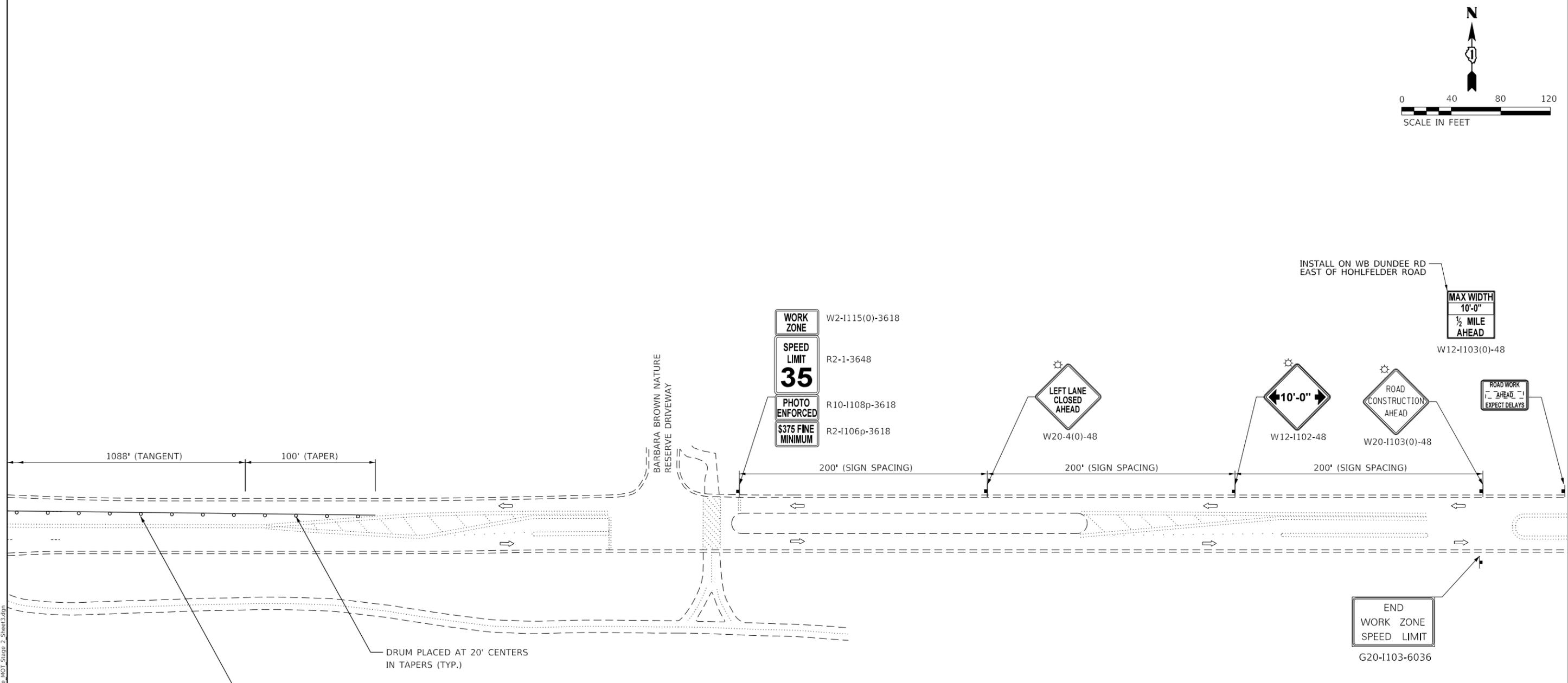
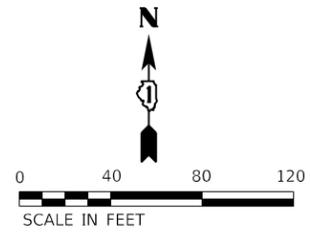
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
SUGGESTED TRAFFIC CONTROL PLAN STAGE 2 - SHEET 2

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	16
CONTRACT NO. 60M72			ILLINOIS FED. AID PROJECT	

SCALE: SHEET OF SHEETS STA. TO STA.

TC-07



DUNDEE ROAD STAGE 2

LEGEND

- WORK ZONE
- TEMPORARY INFORMATION SIGN
- DRUM OR TYPE II BARRICADE PLACED AT 50' CENTERS IN TANGENT
20' CENTERS IN TAPERS
- TEMPORARY CONCRETE BARRIER
- FLASHING LIGHT ABOVE SIGN
- TRAFFIC FLOW DIRECTION
- TYPE III BARRICADES
- IMPACT ATTENUATORS NARROW (REDIRECTIVE), TEST LEVEL 2
- DIRECTIONAL INDICATOR BARRICADES WITH STEADY BURN LIGHT @ 20' C-C

ALL DIMENSIONS ARE F-F

TC-08

AES ENGINEERS & SURVEYORS
 111 S. Wacker Drive,
 Suite 3910
 Chicago, IL 60606
 Ph: 312-235-6783

USER NAME = mokrent	DESIGNED - TOM	REVISED -
PLOT SCALE = 80.0000' / in.	DRAWN - TOM	REVISED -
PLOT DATE = 12/17/2018	CHECKED - MO	REVISED -
	DATE - 12/12/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
SUGGESTED TRAFFIC CONTROL PLAN STAGE 2 - SHEET 3

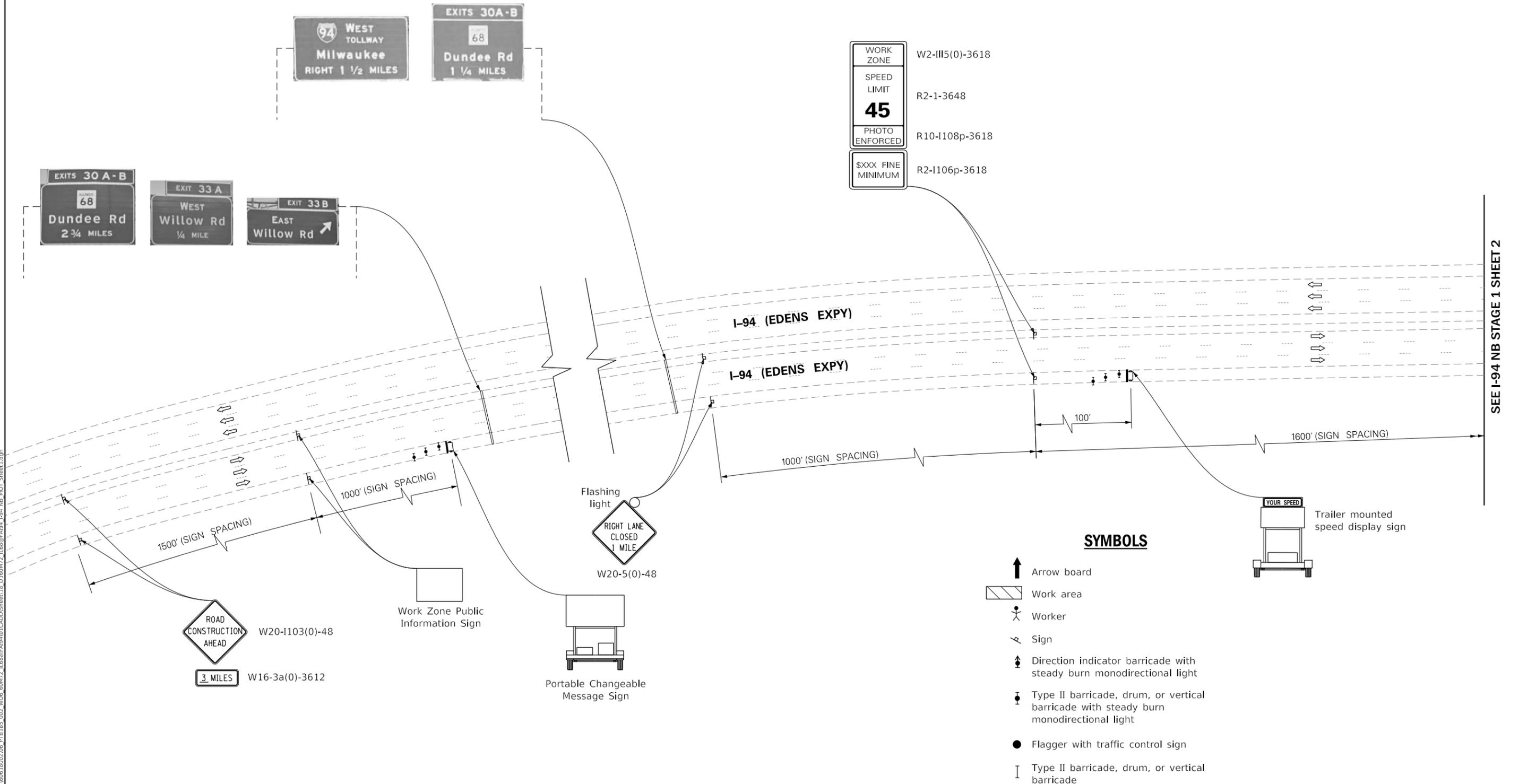
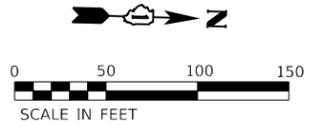
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60M72	

TC-08

NOTES:

1. THESE MOT SHEETS ARE INCLUDED TO ASSIST THE CONTRACTOR IN DETERMINING WHAT TRAFFIC CONTROL NEEDS WILL BE TO SET RIGHT LANE CLOSURES WITH THE ADJACENT RAMP AT DUNDEE AND I-94. ADDITIONAL TRAFFIC CONTROL WILL BE NEEDED TO CLOSE LEFT LANES AND OTHER LANES ON THE INTERSTATE. TRAFFIC CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 700 OF THE STANDARD SPECIFICATIONS, STATE STANDARDS (701400,701404,701411,701428, 701446) DISTRICT DETAILS, AND AS DIRECTED BY THE ENGINEER. ALL TEMPORARY TRAFFIC CONTROL WILL BE PAID FOR IN ACCORDANCE WITH THE TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) PAY ITEM
2. LANES ON INTERSTATE 94 AND US ROUTE 41 MAY BE CLOSED ONLY DURING THE ALLOWABLE HOURS LISTED IN THE KEEPING THE EXPRESSWAY OPEN TO TRAFFIC SPECIAL PROVISION.



Flashing light
 W20-5(0)-48
 RIGHT LANE CLOSED 1 MILE

ROAD CONSTRUCTION AHEAD
 W20-1103(0)-48
 3 MILES
 W16-3a(0)-3612

WORK ZONE
 W2-III5(0)-3618
 SPEED LIMIT
 R2-1-3648
45
 PHOTO ENFORCED
 R10-1108p-3618
 SXXX FINE MINIMUM
 R2-1106p-3618

- SYMBOLS**
- Arrow board
 - Work area
 - Worker
 - Sign
 - Direction indicator barricade with steady burn monodirectional light
 - Type II barricade, drum, or vertical barricade with steady burn monodirectional light
 - Flagger with traffic control sign
 - Type II barricade, drum, or vertical barricade

Trailer mounted speed display sign
 YOUR SPEED

SEE I-94 NB STAGE 1 SHEET 2

MODEL: D:\6072\11683\F09\101\CADD\Sheet18.D 160M72_IL68\F09\101_NB_MOT_Sheet1.dgn
 FILE NAME: C:\QDDOT\6072\11683\F09\101\CADD\Sheet18.D 160M72_IL68\F09\101_NB_MOT_Sheet1.dgn



111 S. Wacker Drive,
 Suite 3910
 Chicago, IL 60606
 Ph: 312-235-6783

USER NAME = tmohammed	DESIGNED - TOM	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - TOM	REVISED -
PLOT DATE = 12/6/2018	CHECKED - MO	REVISED -
	DATE - 12/12/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

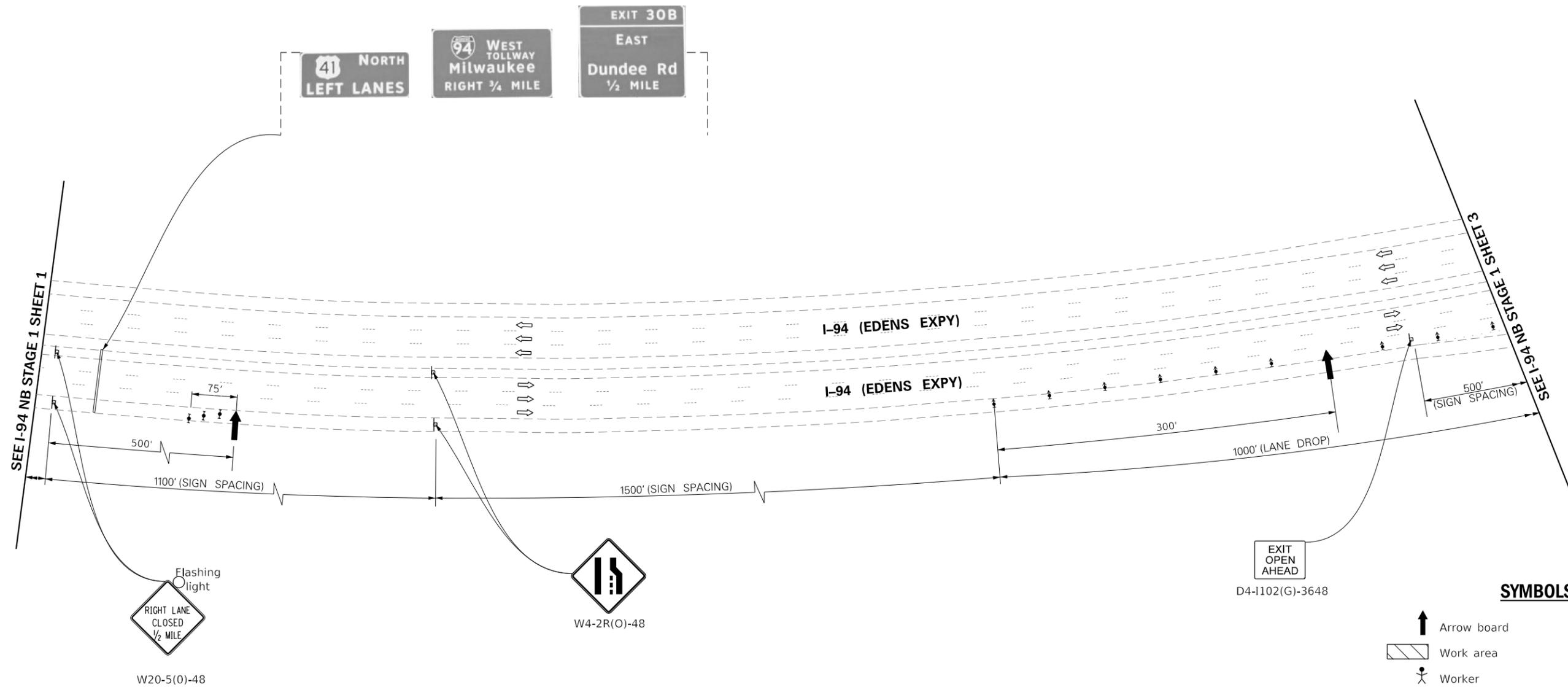
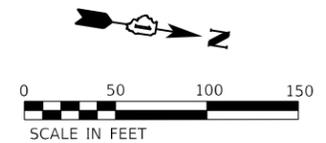
BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
 SUGGESTED TRAFFIC CONTROL I-94 NB SHEET 1

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	18
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

TC-09

NOTES:

1. THESE MOT SHEETS ARE INCLUDED TO ASSIST THE CONTRACTOR IN DETERMINING WHAT TRAFFIC CONTROL NEEDS WILL BE TO SET RIGHT LANE CLOSURES WITH THE ADJACENT RAMP AT DUNDEE AND I-94. ADDITIONAL TRAFFIC CONTROL WILL BE NEEDED TO CLOSE LEFT LANES AND OTHER LANES ON THE INTERSTATE. TRAFFIC CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 700 OF THE STANDARD SPECIFICATIONS, STATE STANDARDS (701400,701404,701411,701428, 701446) DISTRICT DETAILS, AND AS DIRECTED BY THE ENGINEER. ALL TEMPORARY TRAFFIC CONTROL WILL BE PAID FOR IN ACCORDANCE WITH THE TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) PAY ITEM
2. LANES ON INTERSTATE 94 AND US ROUTE 41 MAY BE CLOSED ONLY DURING THE ALLOWABLE HOURS LISTED IN THE KEEPING THE EXPRESSWAY OPEN TO TRAFFIC SPECIAL PROVISION.



SYMBOLS

- Arrow board
- Work area
- Worker
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Flagger with traffic control sign
- Type II barricade, drum, or vertical barricade

MODEL: D:\a\h\1
 FILE NAME: \3\000\DOT\606\1002\06_PTB\105_002_V006_60M72_IL68\F09\01\CADD\Sheet19_D160M72_IL68@191_194_NB_MOT_Sheet2.dgn

AES ENGINEERS & SURVEYORS
 111 S. Wacker Drive,
 Suite 3910
 Chicago, IL 60606
 Ph: 312-235-6783

USER NAME = tmohammed	DESIGNED - TOM	REVISED -
DRAWN - TOM	REVISIONS	
PLOT SCALE = 100.0000' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/6/2018	DATE - 12/12/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
 SUGGESTED TRAFFIC CONTROL I-94 NB SHEET 2**

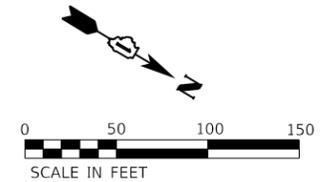
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60M72	

TC-10

NOTES:

1. THESE MOT SHEETS ARE INCLUDED TO ASSIST THE CONTRACTOR IN DETERMINING WHAT TRAFFIC CONTROL NEEDS WILL BE TO SET RIGHT LANE CLOSURES WITH THE ADJACENT RAMP AT DUNDEE AND I-94. ADDITIONAL TRAFFIC CONTROL WILL BE NEEDED TO CLOSE LEFT LANES AND OTHER LANES ON THE INTERSTATE. TRAFFIC CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 700 OF THE STANDARD SPECIFICATIONS, STATE STANDARDS (701400,701404,701411,701428, 701446) DISTRICT DETAILS, AND AS DIRECTED BY THE ENGINEER. ALL TEMPORARY TRAFFIC CONTROL WILL BE PAID FOR IN ACCORDANCE WITH THE TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) PAY ITEM
2. LANES ON INTERSTATE 94 AND US ROUTE 41 MAY BE CLOSED ONLY DURING THE ALLOWABLE HOURS LISTED IN THE KEEPING THE EXPRESSWAY OPEN TO TRAFFIC SPECIAL PROVISION.



WORK ZONE	W2-III5(0)-3618
SPEED LIMIT	R2-1-3648
45	
PHOTO ENFORCED	R10-1108p-3618
\$XXX FINE MINIMUM	R2-1106p-3618

WORK ZONE	W2-III5(0)-3618
SPEED LIMIT	R2-1-3648
45	
PHOTO ENFORCED	R10-1108p-3618
\$XXX FINE MINIMUM	R2-1106p-3618

END CONSTRUCTION
G20-1105-6024

END WORK ZONE SPEED LIMIT
G20-1103-6036

W21-1(0)-48

R1-2-48

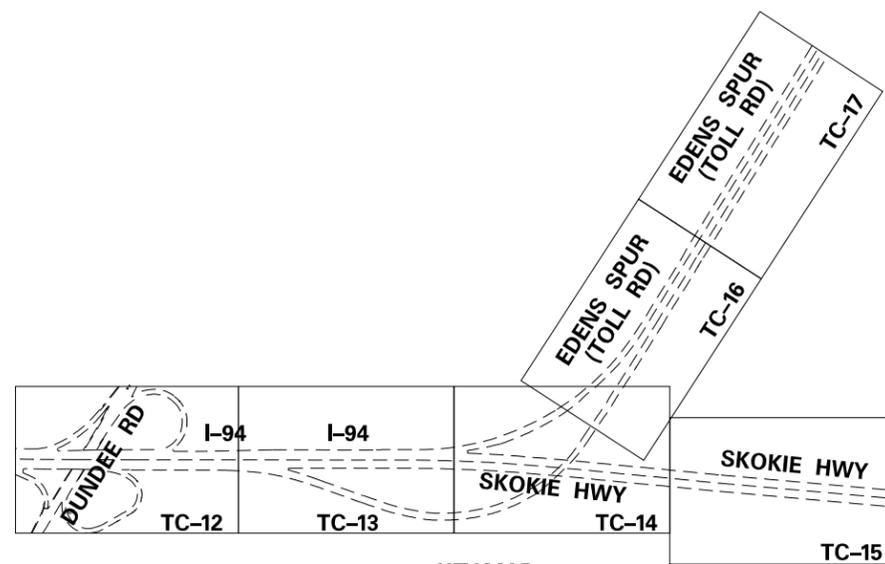
W3-2(O)-48

W4-1(O)-48

I-94 (EDENS EXPY)
I-94 (EDENS EXPY)

SYMBOLS

- Arrow board
- Work area
- Worker
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Flagger with traffic control sign
- Type II barricade, drum, or vertical barricade



SEE I-94 SB SHEET 2

MODEL: D:\mofit\...
 FILE NAME: ...
 MODEL: D:\mofit\...
 FILE NAME: ...



USER NAME = tmohammed	DESIGNED - TOM	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - TOM	REVISED -
PLOT DATE = 12/6/2018	CHECKED - MO	REVISED -
	DATE - 12/12/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
SUGGESTED TRAFFIC CONTROL I-94 SB SHEET 1

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	21
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

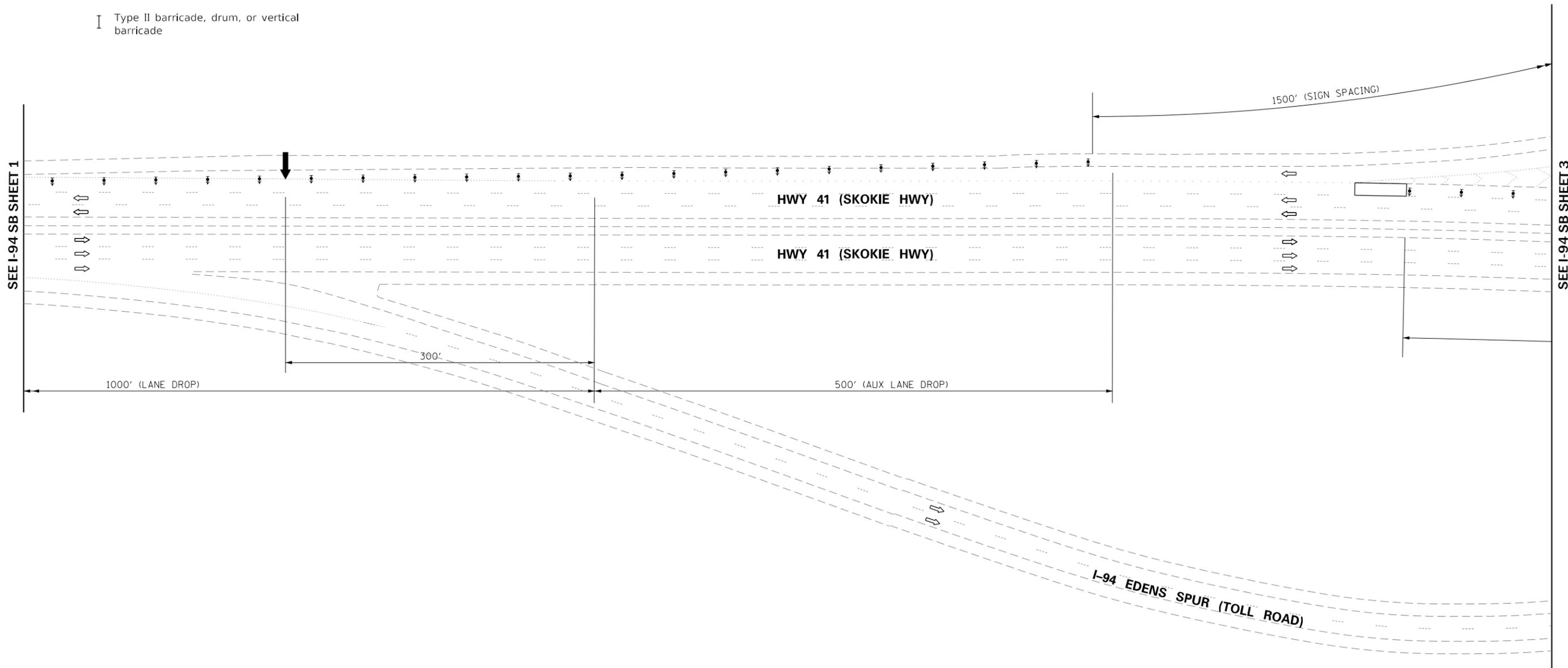
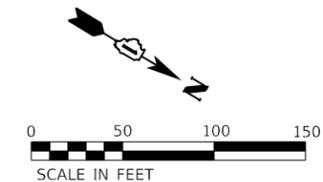
TC-12

SYMBOLS

-  Arrow board
-  Work area
-  Worker
-  Sign
-  Direction indicator barricade with steady burn monodirectional light
-  Type II barricade, drum, or vertical barricade with steady burn monodirectional light
-  Flagger with traffic control sign
-  Type II barricade, drum, or vertical barricade

NOTES:

1. THESE MOT SHEETS ARE INCLUDED TO ASSIST THE CONTRACTOR IN DETERMINING WHAT TRAFFIC CONTROL NEEDS WILL BE TO SET RIGHT LANE CLOSURES WITH THE ADJACENT RAMP AT DUNDEE AND I-94. ADDITIONAL TRAFFIC CONTROL WILL BE NEEDED TO CLOSE LEFT LANES AND OTHER LANES ON THE INTERSTATE. TRAFFIC CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 700 OF THE STANDARD SPECIFICATIONS, STATE STANDARDS (701400,701404,701411,701428, 701446) DISTRICT DETAILS, AND AS DIRECTED BY THE ENGINEER. ALL TEMPORARY TRAFFIC CONTROL WILL BE PAID FOR IN ACCORDANCE WITH THE TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) PAY ITEM
2. LANES ON INTERSTATE 94 AND US ROUTE 41 MAY BE CLOSED ONLY DURING THE ALLOWABLE HOURS LISTED IN THE KEEPING THE EXPRESSWAY OPEN TO TRAFFIC SPECIAL PROVISION.



MODEL: D:\6464\111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783
 FILE NAME: \\020\DOT\60618002\06_PTB\185_002_W06_60M72_IL68SF\A9401\CADD\Sheet22_D160M72_IL68SF\A194_194_SB_MOT_Sheet2.dgn

AES
ENGINEERS & SURVEYORS

111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

USER NAME = tmohammed	DESIGNED - TOM	REVISED -
DRAWN - TOM	REVISIONS -	
PLOT SCALE = 100,0000' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/6/2018	DATE - 12/12/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

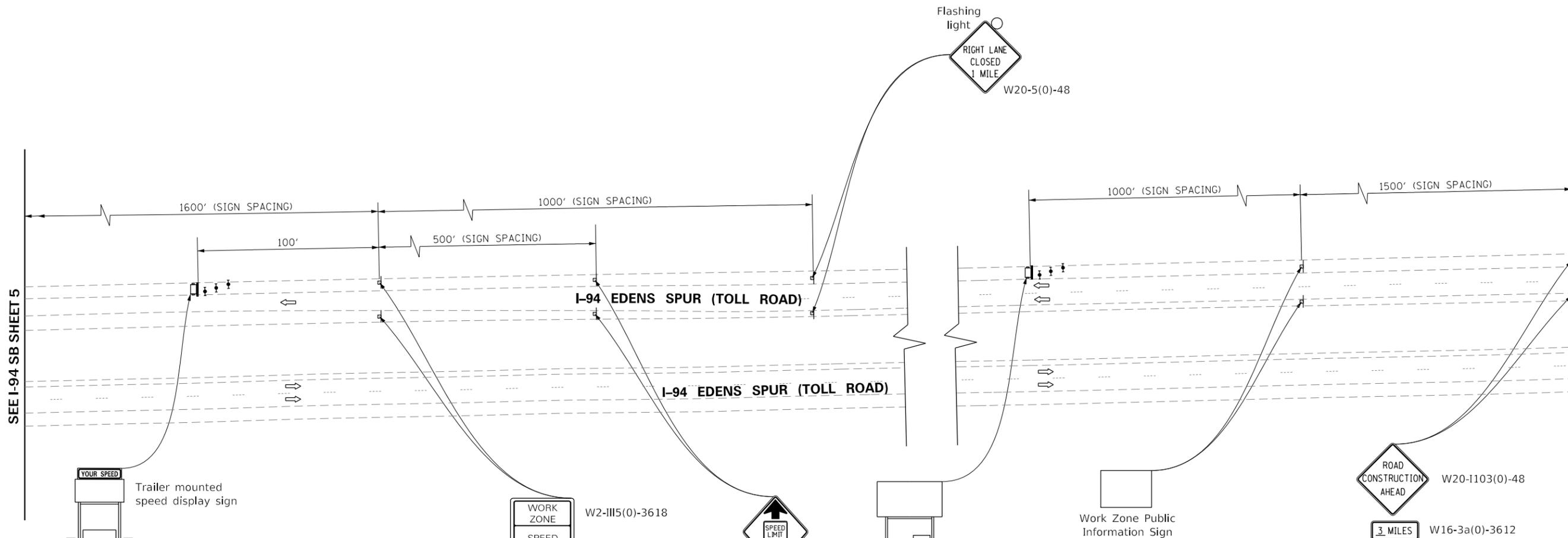
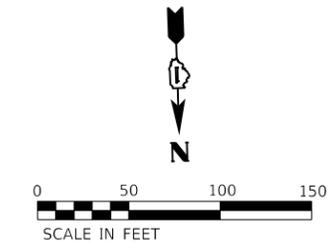
**BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
SUGGESTED TRAFFIC CONTROL I-94 SB SHEET 2**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60M72	

NOTES:

1. THESE MOT SHEETS ARE INCLUDED TO ASSIST THE CONTRACTOR IN DETERMINING WHAT TRAFFIC CONTROL NEEDS WILL BE TO SET RIGHT LANE CLOSURES WITH THE ADJACENT RAMP AT DUNDEE AND I-94. ADDITIONAL TRAFFIC CONTROL WILL BE NEEDED TO CLOSE LEFT LANES AND OTHER LANES ON THE INTERSTATE. TRAFFIC CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 700 OF THE STANDARD SPECIFICATIONS, STATE STANDARDS (701400,701404,701411,701428, 701446) DISTRICT DETAILS, AND AS DIRECTED BY THE ENGINEER. ALL TEMPORARY TRAFFIC CONTROL WILL BE PAID FOR IN ACCORDANCE WITH THE TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) PAY ITEM
2. LANES ON INTERSTATE 94 AND US ROUTE 41 MAY BE CLOSED ONLY DURING THE ALLOWABLE HOURS LISTED IN THE KEEPING THE EXPRESSWAY OPEN TO TRAFFIC SPECIAL PROVISION.



SEE I-94 SB SHEET 5

WORK ZONE	W2-III5(0)-3618
SPEED LIMIT	R2-1-3648
45	
PHOTO ENFORCED	R10-I108p-3618
SXXX FINE MINIMUM	R2-I106p-3618

- SYMBOLS**
- Arrow board
 - Work area
 - Worker
 - Sign
 - Direction indicator barricade with steady burn monodirectional light
 - Type II barricade, drum, or vertical barricade with steady burn monodirectional light
 - Flagger with traffic control sign
 - Type II barricade, drum, or vertical barricade

MODEL: D:\64\11...
 FILE NAME: C:\DOT\60618002\06_PTB\105_002_W06_60M72_IL68\F09\01\CADD\Sheet26_D160M72_IL68\F09\01_SB_NOT_Sheet6.dgn

AES ENGINEERS & SURVEYORS
 111 S. Wacker Drive, Suite 3910
 Chicago, IL 60606
 Ph: 312-235-6783

USER NAME = tmoammed	DESIGNED - TOM	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - TOM	REVISED -
PLOT DATE = 12/6/2018	CHECKED - MO	REVISED -
	DATE - 12/12/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
 SUGGESTED TRAFFIC CONTROL I-94 SB SHEET 6**

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	26
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

TC-17

LEGEND

-  PROPOSED UNDERPASS LUMINAIRE, LED, 240V
-  JB1 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"X18"X8"
-  JB2 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"
-  PROPOSED UNIT DUCT OR CABLE, AS NOTED ON PLANS
-  PROPOSED TYPE III CABINET ATTACHED TO STRUCTURE
-  EXISTING HPS UNDERPASS LUMINAIRE TO BE REMOVED
-  EXISTING JUNCTION BOX TO BE REMOVED
-  EXISTING TYPE NO. 2 CABINET ATTACHED TO STRUCTURE TO BE REMOVED
-  EXISTING ELECTRIC CABLE TO BE REMOVED
-  EXISTING LIGHTING CONTROLLER TO REMAIN
-  EXISTING ELECTRIC CABLE TO REMAIN
-  EXISTING HEAVY DUTY HANDHOLE TO REMAIN

GENERAL NOTES:

1. LIGHTING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. ELECTRIC CABLES IN EXISTING UNIT DUCT OR CONDUIT TO BE ABANDONED SHALL BE REMOVED AND PAID FOR AS "REMOVE ELECTRIC CABLE FROM CONDUIT" (89502300), UNLESS OTHERWISE NOTED.
3. ALL CONDUITS AND APPURTENANCES ARE ILLUSTRATED DIAGRAMMATICALLY ON THE PLANS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET THE APPROVAL OF THE ENGINEER.
4. THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING UNDERGROUND FACILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.

BILL OF MATERIAL

SP	CODE NO.	ITEM	UNIT	QUANTITY
	81100220	CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA., PVC COATED GALVANIZED STEEL	FOOT	20
	81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	330
	81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	340
	81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	100
	81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	8
	81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	4
	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,378
	81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	1,080
	81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	3,420
	89500510	CABINET HOUSING EQUIPMENT REMOVAL	EACH	1
	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,000
*	X0322446	CABINET HOUSING EQUIPMENT, TYPE III	EACH	1
*	X1400249	LUMINAIRE, UNDERPASS, LED, TYPE C	EACH	8
*	X1400342	UNDERPASS LIGHTING REMOVAL	L SUM	1
*	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	4

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AMP	AMPERE
CKT	CIRCUIT
CNC	COILABLE NONMETALLIC CONDUIT
DIA.	DIAMETER
FT	FEET OR FOOT
GND	GROUND
HPS	HIGH PRESSURE SODIUM
LED	LIGHT EMITTING DIODE
M.H.	MOUNTING HEIGHT
NTS	NOT TO SCALE
PVC	POLYVINYL CHLORIDE
RGSC	RIGID GALVANIZED STEEL CONDUIT
SP	SPECIAL PROVISION
STA	STATION
UD	UNIT DUCT
V	VOLT

MODEL: D:\chit... FILE NAME: S:\Projects\3720 - Phase II Various - AES\Project Work\3720_01\Drawings\Sheets\60M72-ah-legend-001.dgn



USER NAME = MTodden	DESIGNED - MRT	REVISED -
	DRAWN - MRT	REVISED -
PLOT SCALE = 20,000' / in.	CHECKED - MKR	REVISED -
PLOT DATE = 12/14/2018	DATE - 08/17/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
GENERAL NOTES, LEGEND, & BILL OF MATERIAL

SCALE: 1" = 20' SHEET 1 OF 11 SHEETS STA. TO STA.

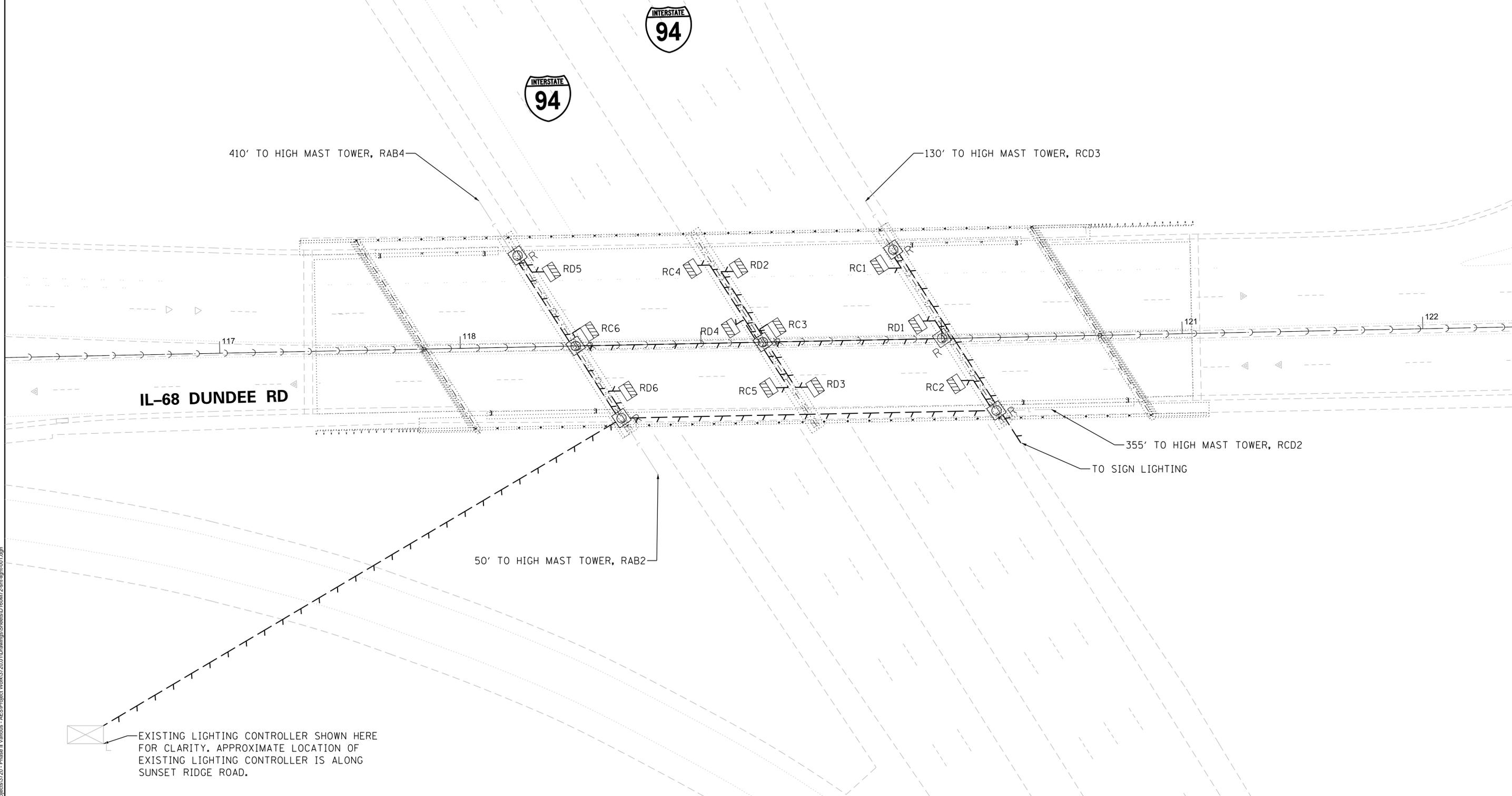
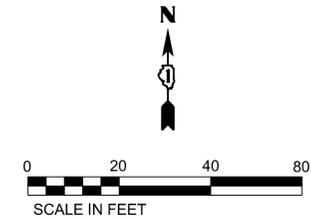
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	27
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

NOTES:

1. ALL EXISTING JUNCTION BOXES AND APPURTENANCES ARE ILLUSTRATED DIAGRAMMATICALLY. THE LOCATION SHALL BE FIELD VERIFIED AND SHALL MEET WITH THE APPROVAL OF THE ENGINEER.
2. THE REMOVAL OF UNDERPASS LUMINAIRES SHALL INCLUDE ALL ASSOCIATED CONDUIT, CABLE, JUNCTION BOXES, HARDWARE, AND APPURTENANT MATERIALS. THIS WORK SHALL BE PAID FOR AS "UNDERPASS LIGHTING REMOVAL" (X1400342).

LEGEND:

-  EXISTING HPS UNDERPASS LUMINAIRE TO BE REMOVED
-  EXISTING JUNCTION BOX TO BE REMOVED
-  EXISTING ELECTRIC CABLE TO BE REMOVED
-  EXISTING LIGHTING CONTROLLER TO REMAIN
-  EXISTING ELECTRIC CABLE TO REMAIN



MODEL: D:\chit...
 FILE NAME: S:\Projects\3720 - Phase II Various - AES\Project Work\3720-01\Drawings\Sheet\60M72-ah-light-001.dgn

TranSmart/EJM
 411 South Wells Street Suite 1000
 Chicago, Illinois 60607

USER NAME = MTodden	DESIGNED - MRT	REVISED -
DRAWN - MRT	REVISIONS -	
PLOT SCALE = 20,000' / in.	CHECKED - MKR	REVISED -
PLOT DATE = 12/14/2018	DATE - 08/17/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
 UNDERPASS LIGHTING REMOVAL PLAN**

SCALE: 1" = 20' SHEET 2 OF 11 SHEETS STA. TO STA.

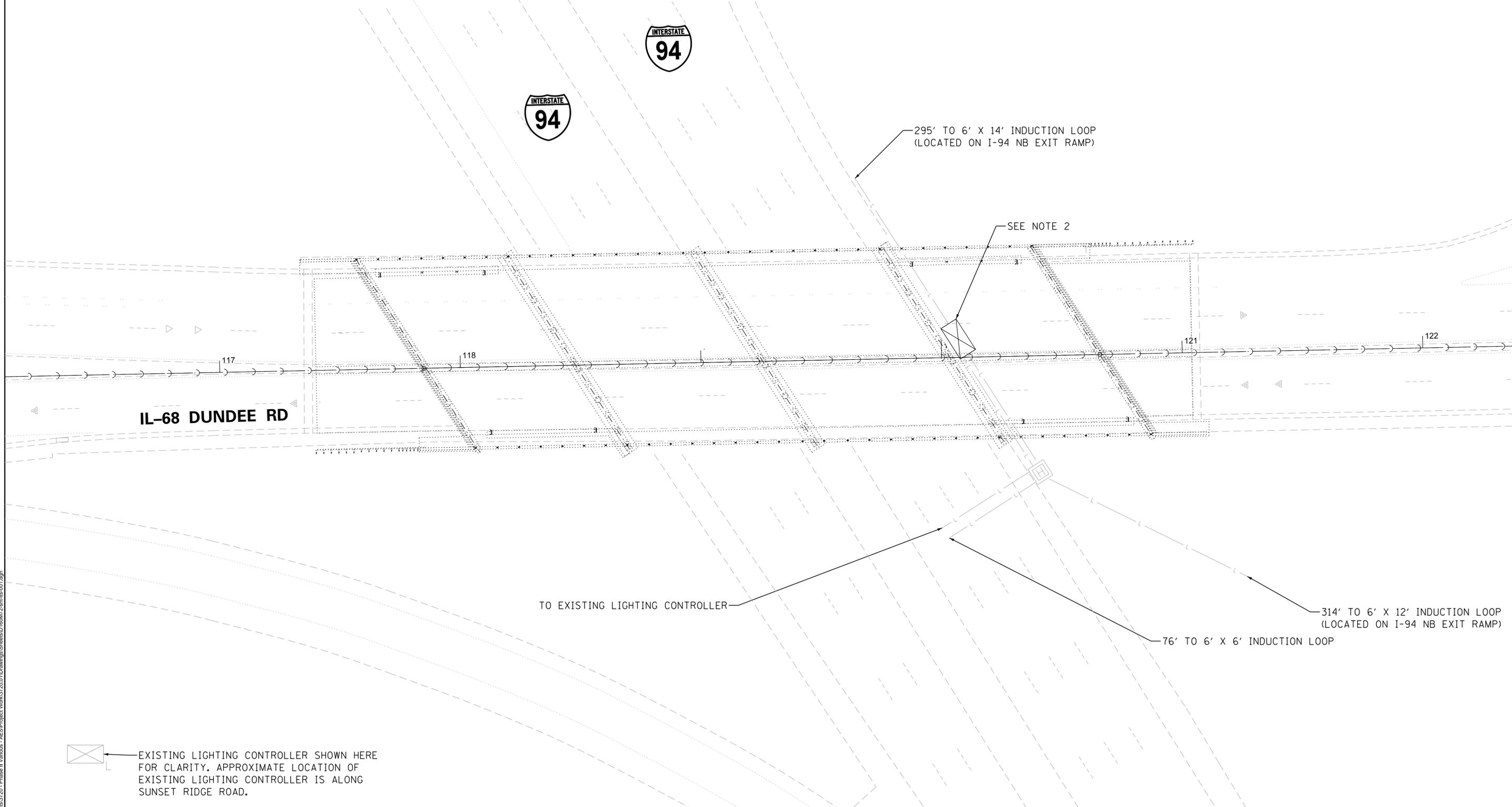
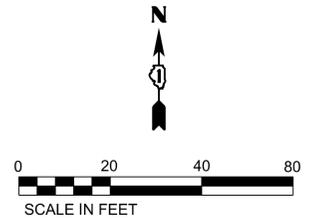
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	28
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

NOTES:

1. ALL EXISTING BOXES AND APPURTENANCES ARE ILLUSTRATED DIAGRAMMATICALLY. THE LOCATION SHALL BE FIELD VERIFIED AND SHALL MEET WITH THE APPROVAL OF THE ENGINEER.
2. DETACH EXISTING CONDUIT SLEEVES AND UNIT DUCTS FROM EXISTING TYPE NO. 2 CABINET. PRESERVE UNIT DUCTS FOR REINSTALLATION IN NEW CONDUIT SLEEVES (SEE ITS DETAILS ON SHEET 8).

LEGEND:

-  EXISTING TYPE NO. 2 CABINET ATTACHED TO STRUCTURE TO BE REMOVED
-  EXISTING LIGHTING CONTROLLER TO REMAIN
-  EXISTING HEAVY DUTY HANDHOLE TO REMAIN
-  EXISTING ELECTRIC CABLE TO REMAIN



 EXISTING LIGHTING CONTROLLER SHOWN HERE FOR CLARITY. APPROXIMATE LOCATION OF EXISTING LIGHTING CONTROLLER IS ALONG SUNSET RIDGE ROAD.

MODEL: D:\fs\it...
FILE NAME: S:\Projects\3720 - Phase II Various - AES\Project Work\3720_01\Drawings\Sheet\60M72-ait-hs-001.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = MTodden	DESIGNED - MRT	REVISED -
	DRAWN - MRT	REVISED -
PLOT SCALE = 20,000' / in.	CHECKED - MKR	REVISED -
PLOT DATE = 12/16/2018	DATE - 08/17/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
ITS REMOVAL PLAN

SCALE: 1" = 20' SHEET 3 OF 11 SHEETS STA. TO STA.

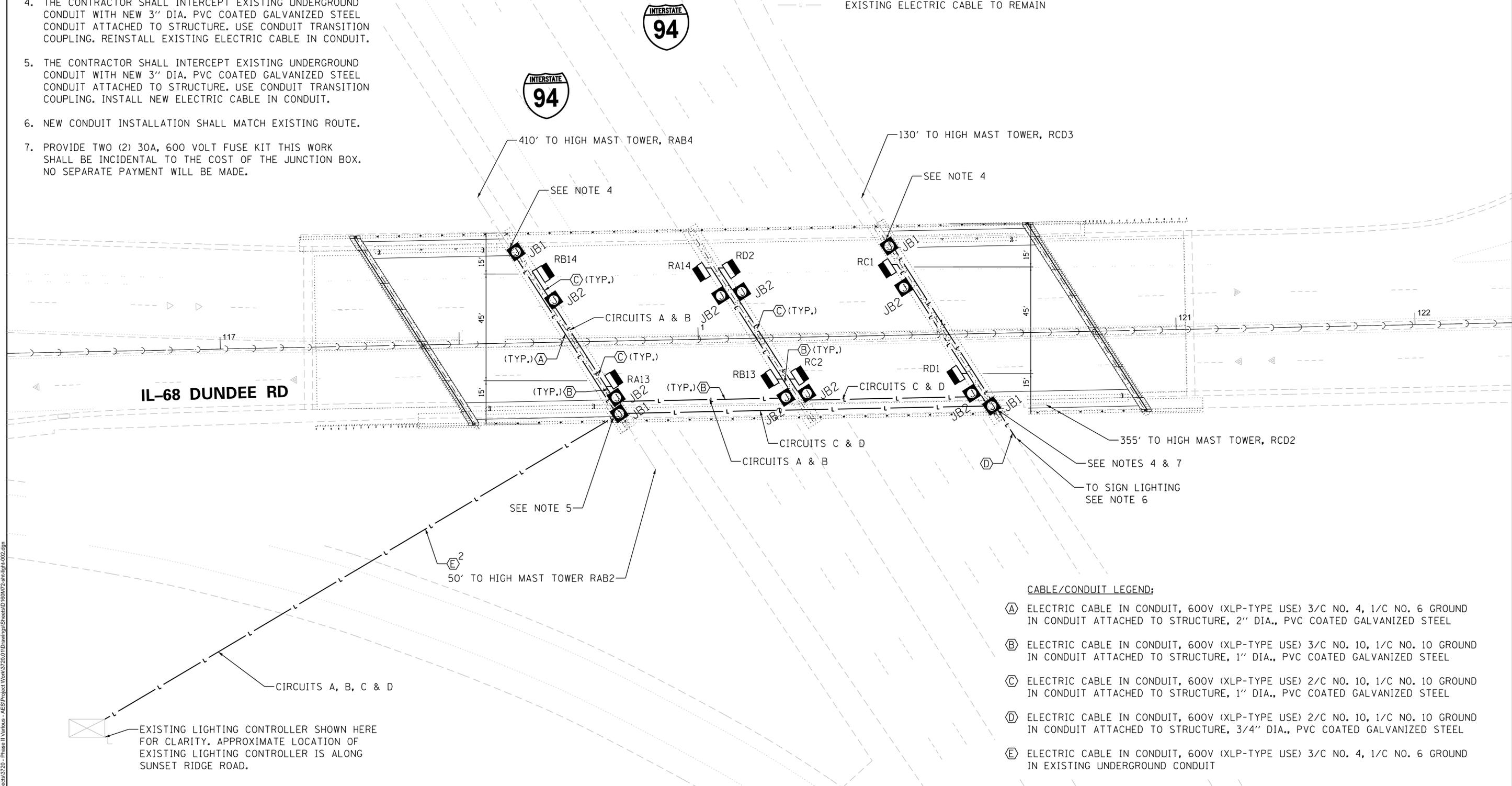
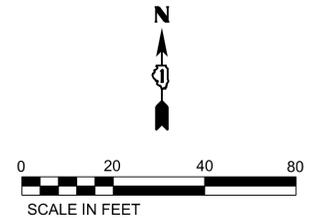
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	29
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

NOTES:

1. ALL EXISTING JUNCTION BOXES AND APPURTENANCES ARE ILLUSTRATED DIAGRAMMATICALLY. THE LOCATION SHALL BE FIELD VERIFIED AND SHALL MEET WITH THE APPROVAL OF THE ENGINEER.
2. THE UNDERPASS LED LUMINAIRE MOUNTING HEIGHT SHALL BE 16'-0" MINIMUM TO GRADE.
3. 6"X6"X4" STAINLESS STEEL JUNCTION BOXES SHALL BE INSTALLED PER D1 STANDARD DETAIL BE-902.
4. THE CONTRACTOR SHALL INTERCEPT EXISTING UNDERGROUND CONDUIT WITH NEW 3" DIA. PVC COATED GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE. USE CONDUIT TRANSITION COUPLING. REINSTALL EXISTING ELECTRIC CABLE IN CONDUIT.
5. THE CONTRACTOR SHALL INTERCEPT EXISTING UNDERGROUND CONDUIT WITH NEW 3" DIA. PVC COATED GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE. USE CONDUIT TRANSITION COUPLING. INSTALL NEW ELECTRIC CABLE IN CONDUIT.
6. NEW CONDUIT INSTALLATION SHALL MATCH EXISTING ROUTE.
7. PROVIDE TWO (2) 30A, 600 VOLT FUSE KIT THIS WORK SHALL BE INCIDENTAL TO THE COST OF THE JUNCTION BOX. NO SEPARATE PAYMENT WILL BE MADE.

LEGEND:

-  PROPOSED UNDERPASS LUMINAIRE, LED, 240V
-  JB1 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"X18"X8"
-  JB2 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"
-  PROPOSED UNIT DUCT OR CABLE, AS NOTED ON PLANS
-  EXISTING LIGHTING CONTROLLER TO REMAIN
-  EXISTING ELECTRIC CABLE TO REMAIN



CABLE/CONDUIT LEGEND:

- (A) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3/C NO. 4, 1/C NO. 6 GROUND IN CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL
- (B) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3/C NO. 10, 1/C NO. 10 GROUND IN CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
- (C) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2/C NO. 10, 1/C NO. 10 GROUND IN CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
- (D) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2/C NO. 10, 1/C NO. 10 GROUND IN CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA., PVC COATED GALVANIZED STEEL
- (E) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3/C NO. 4, 1/C NO. 6 GROUND IN EXISTING UNDERGROUND CONDUIT

EXISTING LIGHTING CONTROLLER SHOWN HERE FOR CLARITY. APPROXIMATE LOCATION OF EXISTING LIGHTING CONTROLLER IS ALONG SUNSET RIDGE ROAD.

MODEL: D:\chit... FILE NAME: S:\Projects\3720 - Phase II Various - AES\Project Work\3720_01\Drawings\Sheet\60M72-light-002.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = MTodden	DESIGNED - MRT	REVISED -
PLOT SCALE = 20,000' / in.	DRAWN - MRT	REVISED -
PLOT DATE = 12/14/2018	CHECKED - MKR	REVISED -
	DATE - 08/17/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
PROPOSED UNDERPASS LIGHTING PLAN**

SCALE: 1" = 20' SHEET 4 OF 11 SHEETS STA. TO STA.

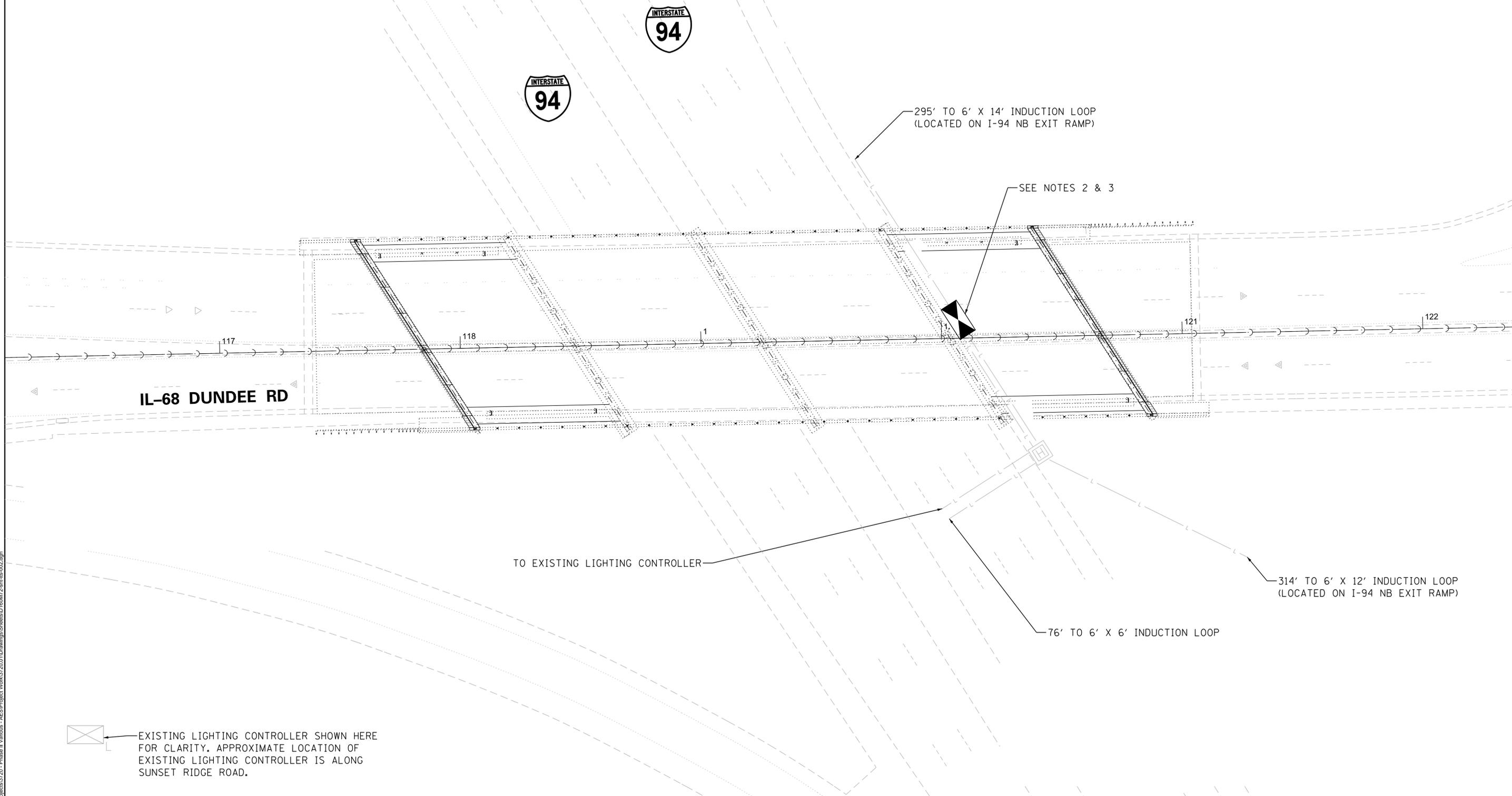
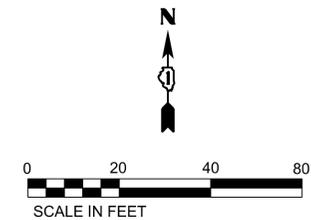
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	30
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

NOTES:

1. ALL EXISTING BOXES AND APPURTENANCES ARE ILLUSTRATED DIAGRAMMATICALLY. THE LOCATION SHALL BE FIELD VERIFIED AND SHALL MEET WITH THE APPROVAL OF THE ENGINEER.
2. THE CONTRACTOR SHALL INTERCEPT EXISTING UNDERGROUND UNIT DUCT AND INSTALL IN NEW CONDUIT SLEEVE (SEE CONDUIT TRANSITION DETAIL ON SHEET 8).
3. NEW CONDUIT INSTALLATION SHALL MATCH EXISTING ROUTE.

LEGEND:

-  PROPOSED TYPE III CABINET ATTACHED TO STRUCTURE
-  EXISTING LIGHTING CONTROLLER TO REMAIN
-  EXISTING HEAVY DUTY HANDHOLE TO REMAIN
-  EXISTING ELECTRIC CABLE TO REMAIN



 EXISTING LIGHTING CONTROLLER SHOWN HERE FOR CLARITY. APPROXIMATE LOCATION OF EXISTING LIGHTING CONTROLLER IS ALONG SUNSET RIDGE ROAD.

MODEL: D:\fs\it...
FILE NAME: S:\Projects\3720 - Phase II Various - AES\Project Work\3720_01\Drawings\Sheet\60M72-its-002.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

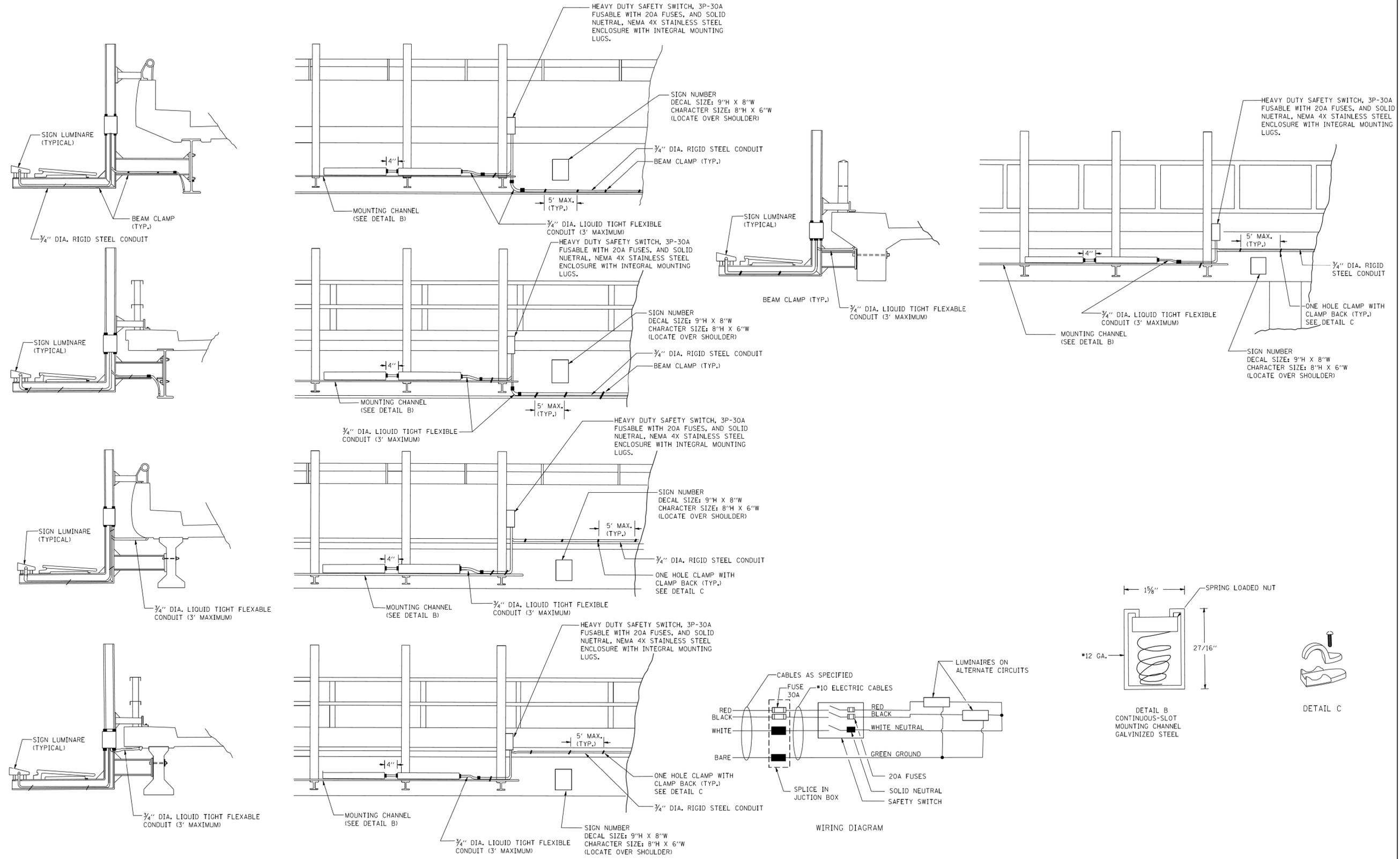
USER NAME = MTodden	DESIGNED - MRT	REVISED -
DRAWN - MRT	REVISIONS -	
PLOT SCALE = 20,000' / in.	CHECKED - MKR	REVISED -
PLOT DATE = 12/14/2018	DATE - 08/17/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
PROPOSED ITS PLAN**

SCALE: 1" = 20' SHEET 5 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	31
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				



FILE NAME = W:\distsstd\22x34\be602.dgn	USER NAME = leyo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRIC CONNECTION TO SIGN STRUCTURE BRIDGE TYPE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50.0000" / IN.	CHECKED -	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-602		CONTRACT NO.
PLOT DATE = 3/3/2010	DATE - 04-14-08	REVISED -	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT		

MODEL: Default
 FILE NAME: S:\Projects\3720 - Phase 1\Various - AES\Project Work\3720_01\Drawings\Sheet\60M72-light-003.dgn

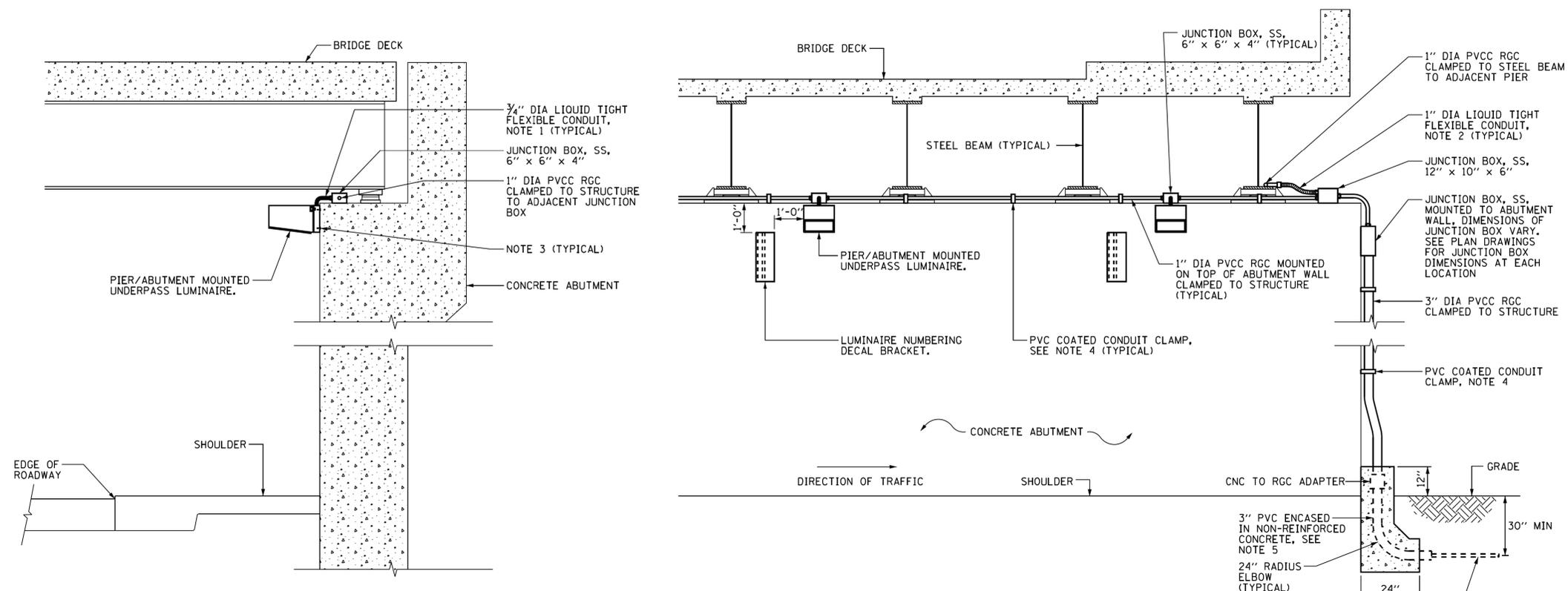
TranSmart/EJM
 411 South Wells Street Suite 1000
 Chicago, Illinois 60607

USER NAME = bbarr	DESIGNED - MRT	REVISED -
PLOT SCALE = 20.0000" / IN.	DRAWN - MRT	REVISED -
PLOT DATE = 11/12/2018	CHECKED - MKR	REVISED -
	DATE - 08/17/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94 LIGHTING DETAILS	
SCALE: N/A	SHEET 6 OF 11 SHEETS
STA.	TO STA.

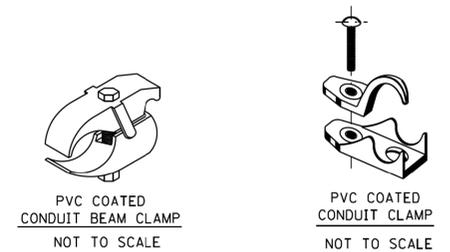
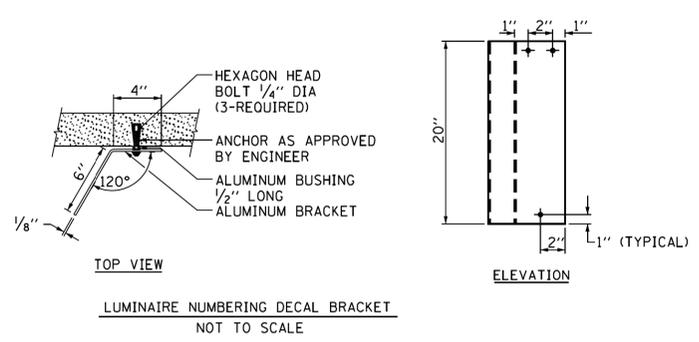
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	32
CONTRACT NO. 60M72				
ILLINOIS/FED. AID PROJECT				



TYPICAL PIER / ABUTMENT MOUNTED UNDERPASS LIGHTING INSTALLATION DETAILS

NOTES:

1. LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0". TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT THE COST OF THE 3/4" DIA. RIGID STEEL CONDUIT AND 3/4" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE LUMINAIRE INSTALLATION.
2. UNDERPASS LUMINAIRE MOUNTED TO FACE OF PIER OR ABUTMENT WALL. MOUNTING HEIGHT OF 1" BELOW THE TOP OF PIER OR ABUTMENT WALL TYPICAL FOR ALL PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRES UNLESS OTHERWISE NOTED.
3. EXPANSION ANCHOR, POWDER ACTUATED. FASTENERS WILL NOT BE ALLOWED. EXPANSION ANCHOR MUST BE SIZED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
4. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM.
5. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
6. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.

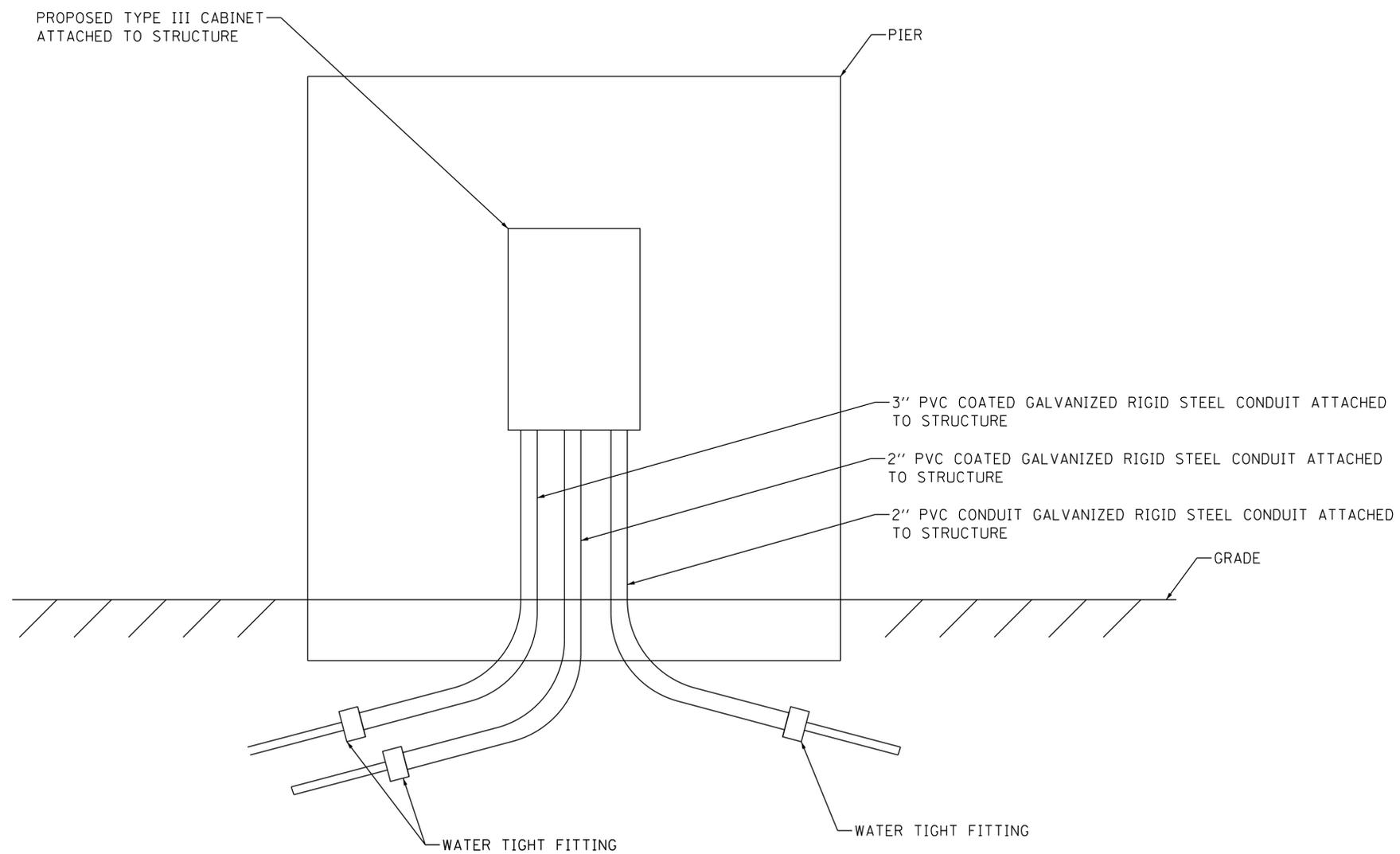


FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - 01-25-05	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER /ABUTMENT MOUNTED UNDERPASS LUMINAIRE INSTALLATION DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default	PLOT SCALE = 100.000' / in.	CHECKED -	REVISED -					SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	BE-902	CONTRACT NO.	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 11/17/2015	DATE -	REVISED -												

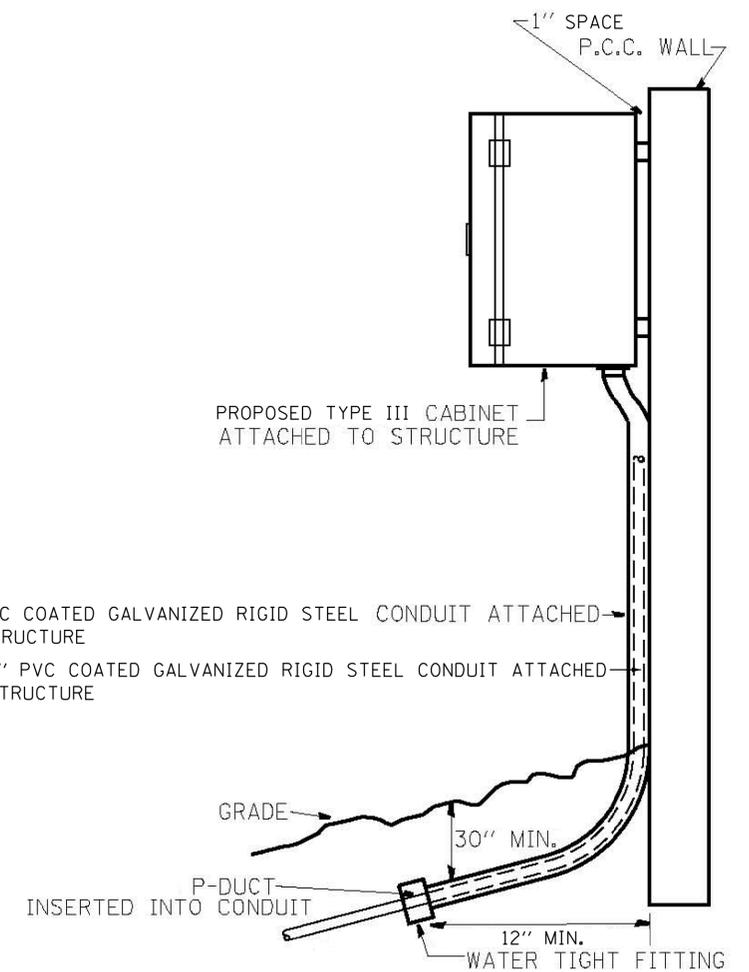
USER NAME = bbarr	DESIGNED - MRT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94 LIGHTING DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
Default	PLOT SCALE = 20.0000' / in.	CHECKED - MKR					REVISED -	SCALE: N/A	SHEET 7 OF 11 SHEETS	STA. TO STA.	94	1314.1-I	COOK	70 33	
	PLOT DATE = 11/12/2018	DATE - 08/17/2018					REVISED -								

MODEL: Default
 FILE NAME: S:\Projects\3720 - Phase 1\Various - AES\Project Work\3720\01\Drawings\Sheets\60M72-light-004.dgn
 TRANSMART/EJM
 411 South Wells Street Suite 1000
 Chicago, Illinois 60607

**PROPOSED TYPE III CABINET
ATTACHED TO STRUCTURE**



**FRONT VIEW
POLYETHYLENE DUCT /GS. CONDUIT TRANSITION**



**SIDE VIEW
POLYETHYLENE DUCT/GS. CONDUIT TRANSITION**

MODEL: D:\chit...
FILE NAME: S:\Projects\3720 - Phase II Various - AES\Project Work\3720_01\Drawings\Sheet\60M72-att-hs-003.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = bbarr	DESIGNED - MRT	REVISED -
DRAWN - MRT	REVISIONS -	
PLOT SCALE = 20,000' / in.	CHECKED - MKR	REVISED -
PLOT DATE = 11/12/2018	DATE - 08/17/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
ITS DETAILS**

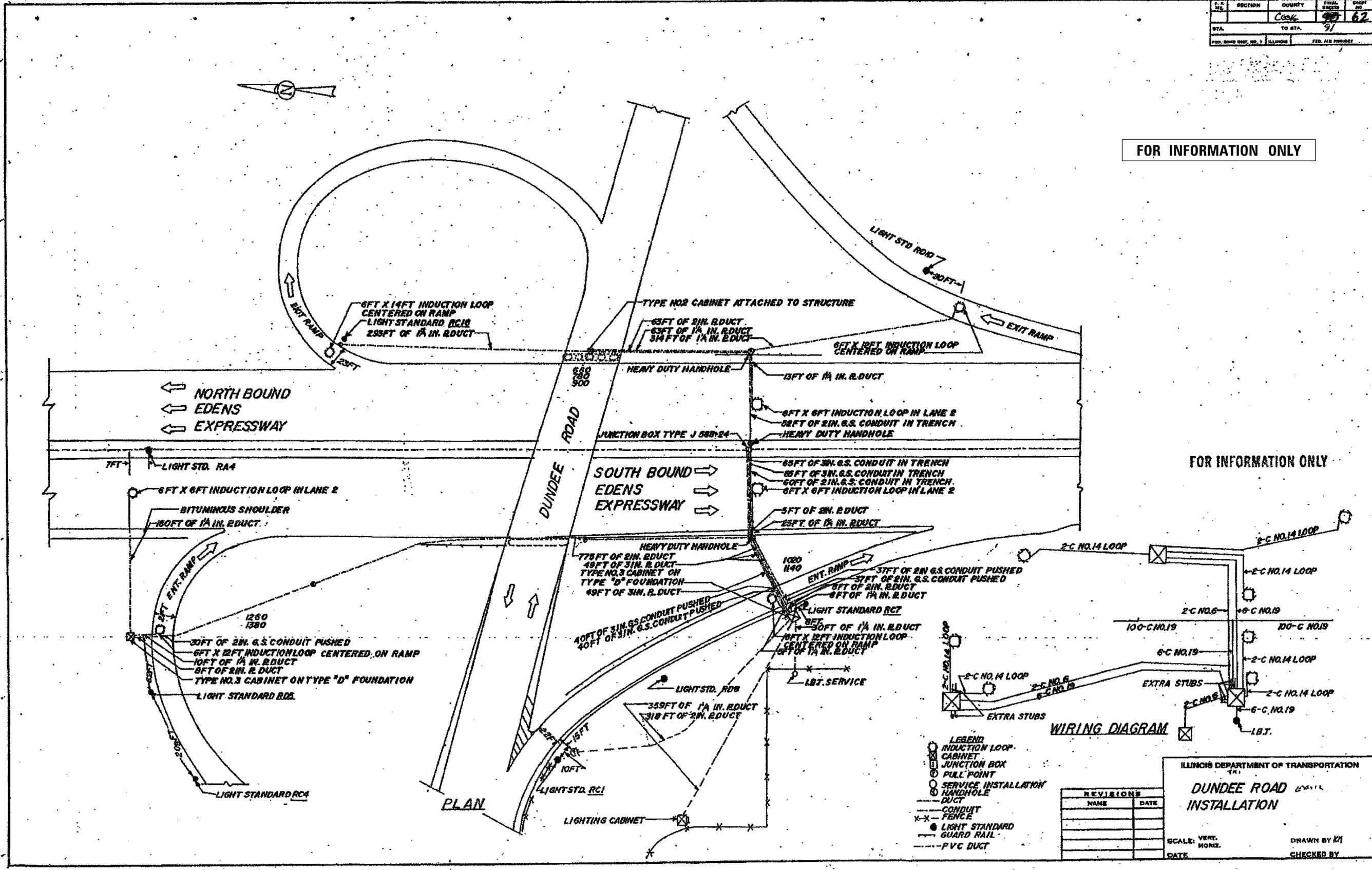
SCALE: N/A SHEET 8 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	34
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

S. R. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	Cook		90	62
STA. TO STA.		91		
FED. ROAD DIST. NO. 3		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY

FOR INFORMATION ONLY



MODEL: D:\chil...
 FILE NAME: S:\Projects\3720 - Phase 11\Various - AES\Project Work\3720_01\Drawings\Sheet\60M72-ait-hs-004.dgn

USER NAME = bbarr	DESIGNED - MRT	REVISED -
PLOT SCALE = 20,000' / in.	DRAWN - MRT	REVISED -
PLOT DATE = 11/12/2018	CHECKED - MKR	REVISED -
	DATE - 08/17/2018	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314-1-I	COOK	70	35
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

ILLINOIS DEPARTMENT OF TRANSPORTATION
DUNDEE ROAD INSTALLATION
 SCALE: VERT. HORIZ.
 DATE DRAWN BY MKR CHECKED BY

REVISIONS	
NAME	DATE

(X)

EDENS
KENNEDY
EISENHOWER
I-290/IL53/I-355
RYAN
I-55
I-57
CAL-KING
LAKE SHORE DR.
I-80

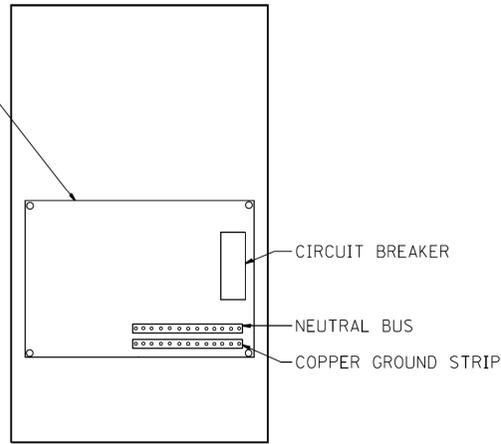
WALNUT *
BLUE STREAK **
CARIBBEAN BLUE *
EVERGREEN **
YELLOW STONE II **
MEDIUM BRONZE *
RED BARON **
BLUE STREAK **
GREEN *
STATUARY BRONZE **

ALL RAMP METERING CABINETS LIME GREEN ***. ALL POSTS, T.S. HEADS AND SERVICES WILL BE PAINTED FEDERAL YELLOW.

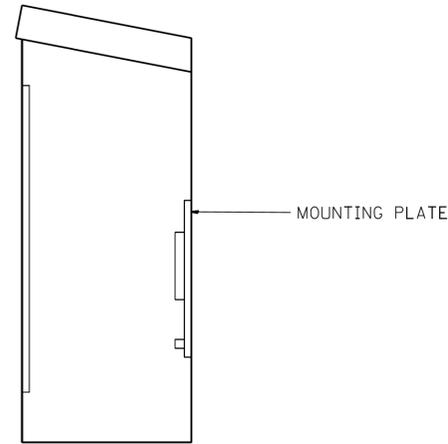
* MORTON POWDER PAINT COLOR OR EQUIVALENT.
** O'BRIEN POWDER PAINT COLOR OR EQUIVALENT.
*** BENJAMIN MOORE ENAMEL COLOR OR EQUIVALENT.

NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR CONFORMING TO COLOR REQUIREMENTS.

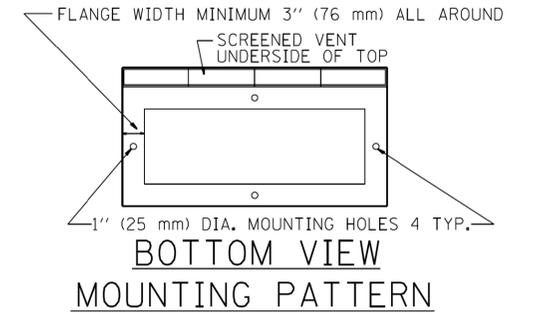
MOUNTING PLATES MOUNTED TO BACK OF CABINET



ESP 2 & 3 CABINET



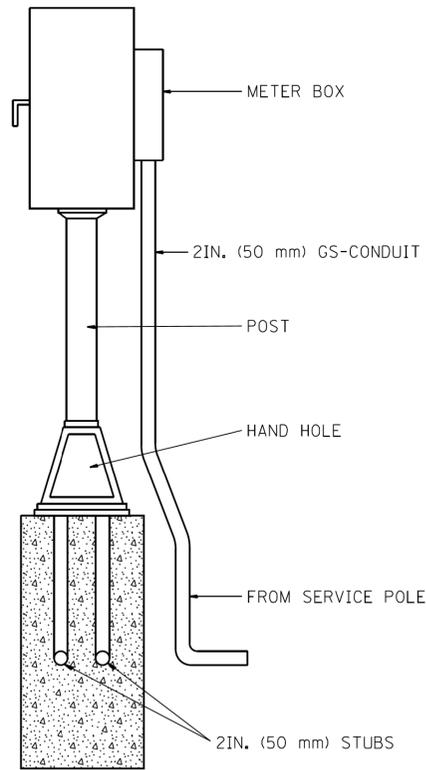
PROFILE VIEW



BOTTOM VIEW MOUNTING PATTERN

TYPICAL CABINET INTERIORS
STANDARD TRAFFIC SYSTEMS CENTER CABINETS

TYPE	MINIMUM DIMENSIONS			INSIDE THICKNESS (IN-mm)	MATERIAL
	HEIGHT (IN-mm)	WIDTH (IN-mm)	DEPTH (IN-mm)		
ESP2	36" (914.4mm)	20" (508.0mm)	15" (1.0mm)	3/16" (4.76mm)	FABRICATED ALUMINUM
ESP3	49.5" (1257.3mm)	30" (762.0mm)	17" (431.8mm)	3/16" (4.76mm)	FABRICATED ALUMINUM



ESP 2 W/METER FITTING

NOTES:

- CABINETS, CABINET POSTS AND CABINET PEDESTALS SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH SECTION T637 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS". THE FINAL COAT SHALL BE (X) IN COLOR. THE INTERIOR SHALL BE PAINTED WHITE.
- CABINETS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION T400 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS".
- ALL CABINETS WHICH ARE SERVICED BY 117 VOLTS A.C. POWER SHALL BE EQUIPPED WITH A 60 AMP CIRCUIT BREAKER MINIMUM, A.C. R.F.I. LINE FILTERING SURGE PROTECTOR, VARISTOR, DATA SURGE AND LOOP SURGE PROTECTORS AS INCIDENTAL TO THE COST OF THE CABINET.
- METER BOX SHALL BE MOUNTED TO SIDE OR BACK WALL OF CONTROL CABINET.
- CABLES FROM METER BOX CAN PASS THROUGH SIDE WALL OF CONTROL CABINET.
- INCIDENTAL TO THE COST OF EACH CABINET THE CONTRACTOR SHALL CONSTRUCT A 5 IN. (130 mm) PCC SIDEWALK OF A RECTANGULAR AREA 3 FEET (915 mm) BY 4 FEET (1.25 m) IMMEDIATELY ADJACENT TO THE CABINET FOUNDATION ON THE SAME SIDE OF THE FOUNDATION AS THE CABINET DOOR TO PROVIDE FOOTING DURING INSTALLATION AND MAINTENANCE.
- ANCHOR BOLTS FOR PEDESTAL AND BASE MOUNTED CABINETS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CABINET.
- THE CABINET DOOR SHALL BE HINGED ON THE RIGHT SIDE WHEN FACING THE CABINET. THE DOOR SHALL BE FURNISHED WITH A GASKET THAT SHALL FORM A WEATHER TIGHT SEAL BETWEEN THE CABINET AND DOOR. THE HINGES SHALL BE CONTINUOUS AND BOLTED TO THE CABINET AND DOOR UTILIZING 1/4-20 STAINLESS STEEL CARRIAGE BOLTS AND NY-LOCK NUTS. THE HINGES WILL BE MADE OF STAINLESS STEEL WITH A 0.25 INCH (6.35 mm) DIAMETER STAINLESS STEEL HINGE PIN. THE HINGE PIN SHALL BE CAPPED TOP AND BOTTOM BY WELD TO RENDER IT TAMPER PROOF.
- THE LATCHING MECHANISM SHALL BE A 3 POINT DRAW ROLLER TYPE. THE CENTER CATCH AND PUSHRODS SHALL BE EITHER CADMIUM OR ZINC PLATED, TYPE II CLASS I. PUSHRODS WILL BE TURNED EDGEWISE AT THE OUTWARD SUPPORTS AND SHALL BE 0.25 INCH (6.35 mm) BY 0.75 INCH (19.05 mm), MINIMUM. ROLLERS SHALL HAVE A MINIMUM DIAMETER OF 0.875 INCH (22.22 mm) AND WILL BE MADE OF NYLON. THE CENTER CATCH SHALL BE FABRICATED FROM 0.14 INCH (3.55 mm) STEEL, MINIMUM. WHEN THE DOOR IS CLOSED AND LATCHED, IT WILL BE LOCKED. THE LATCHING HANDLE SHALL HAVE A PROVISION FOR PADLOCKING IN THE CLOSED POSITION. AN OPERATING HANDLE SHALL BE FURNISHED WITH EACH LOCK. THE HANDLE WILL BE STAINLESS STEEL WITH A 0.75 INCH (19.05 mm) DIAMETER SHANK.
- THE ENCLOSURE SHALL BE EQUIPPED WITH TWO ADJUSTABLE "C" MOUNTING CHANNELS WELDED ON BOTH SIDE WALLS AND BACK WALL OF THE ENCLOSURE, ALLOWING VERSATILE POSITIONING OF SHELVES OR PANELS. MOUNTING CHANNELS SHALL BE FACTORY PAINTED SAME COLOR AS INTERIOR OF CABINET.
- CABINET DOOR SHALL NOT HAVE COMPARTMENT DOORS OR LOUVERS.
- ALL FIELD CABINETS SHALL BE FITTED WITH BRASS LOCKS.
- POST TOP MOUNTED CABINETS, SHALL HAVE A 0.25 INCH (6.3 mm) BOTTOM OF CABINET WELDED.
- TYPE III CAB. IS PAD MOUNTED W/METER FITTING MOUNTED IN SAME MANNER AS A TYPE II CAB. W/APPROPRIATE NUMBER OF STUBS AS SHOWN ON PLANS.
- THE CONTROL CABINET SHALL BE SET PLUMB ON THE FOUNDATION AND FASTENED TO THE ANCHOR BOLTS WITH NUTS AND WASHERS. FLAT WASHERS SHALL BE INSTALLED BELOW AND ABOVE THE BASE PLATE OF CONTROL CABINET. LOCKWASHERS SHALL BE INSTALLED ON TOP OF THE TOP FLAT WASHER.

**FOR INFORMATION ONLY
AND USE BY CONTRACTOR**

FILE NAME =	USER NAME = mezzg	DESIGNED - R.L.	REVISED - 09/94
PROJECT =	PROJECT =	CHECKED - R.L.	REVISED - 02/98
DATE =	DATE = 09/13/94	DATE =	REVISED - 03/99

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

CONTROL CABINET
PEDESTAL MOUNTED

SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						CONTRACT NO.				
						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC SYSTEMS CENTER (TY-1TSC-400#9)

MODEL: Default
FILE NAME: S:\Projects\3720 - Phase 1\Various - AES\Project Work\3720\01\Drawings\Sheet\ID160M72-ah-005.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

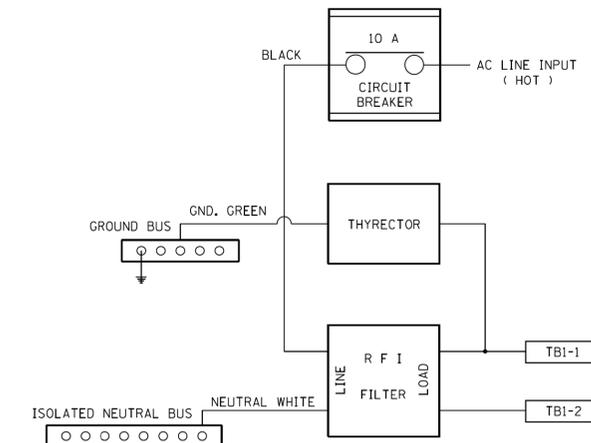
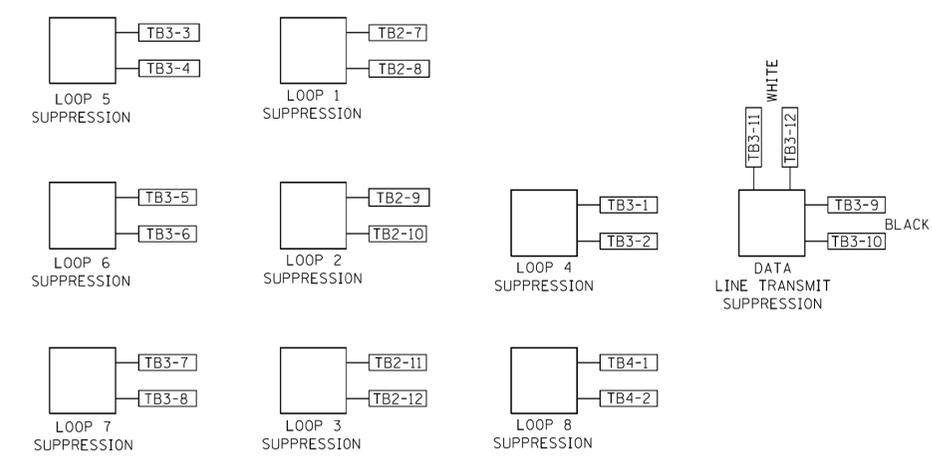
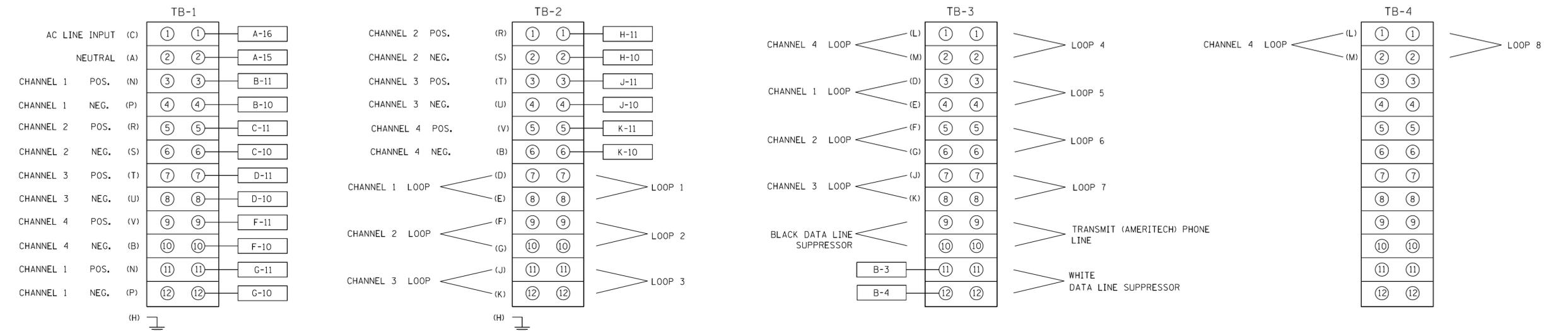
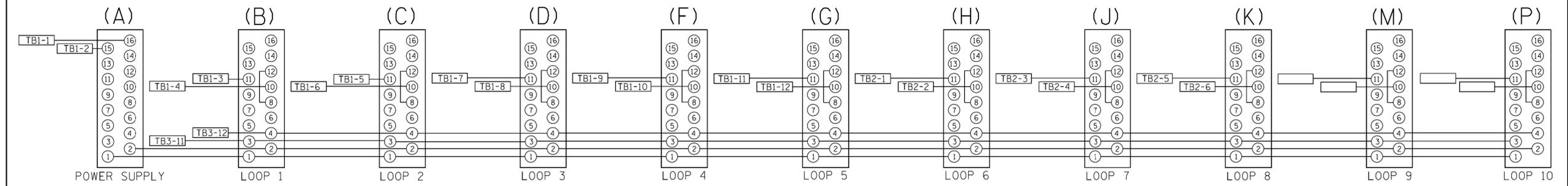
USER NAME = bbarr	DESIGNED - MRT	REVISED -
PROJECT =	DRAWN - MRT	REVISED -
DATE = 11/12/2018	CHECKED - MKR	REVISED -
DATE = 08/17/2018	DATE =	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
ITS DETAILS

SCALE: N/A	SHEET	10	OF	11	SHEETS	STA.	TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						CONTRACT NO. 60M72						
						ILLINOIS FED. AID PROJECT						

BACK VIEW OF TONE RACK



**FOR INFORMATION ONLY
AND USE BY CONTRACTOR**

FILE NAME = p:\11084EBID\INTEG.IL\Illinois.gov\PIDOT\Documents\DOT Offices\District 1\Projects\Traffic Systems Center\00Data\Electrical\Typical\REVISED\TP.dgn 05-99	USER NAME = mezzg	DESIGNED - RL	REVISED - 02-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	TYPE 3 CABINET WIRING DIAGRAM	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 100.0000 "/in.	CHECKED - RL	REVISED -	CONTRACT NO.								
PLOT DATE = 10/17/2018	DATE - 10-17-95	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

TRAFFIC SYSTEMS CENTER (TY-1TSC-400#13)

MODEL: Default
FILE NAME: S:\Projects\3720 - Phase 1\Various - AES\Project Work\3720_01\Drawings\Sheet\ID160M72-ah-ts-006.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = bbarr	DESIGNED - MRT	REVISED -
DRAWN - MRT	REVISED -	
CHECKED - MKR	REVISED -	
DATE - 08/17/2018	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94
ITS DETAILS**

F.A. RTE. 94	SECTION 1314.1-I	COUNTY COOK	TOTAL SHEETS 70	SHEET NO. 37
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

Existing Structure: Structure No. 016-0939 was constructed in 1949 and rehabilitated in 1986. It is 80'-0" out to out with 6'-0" wide sidewalks on each side. The deck is concrete slab supported on 62'-2 3/4", 77'-9 1/2", 77'-9 1/2" and 62'-2 3/4" continuous steel flange beams. The substructure consists of stub abutments and multiple column concrete piers.

Traffic to be maintained utilizing stage construction.

No Salvage.

LOADING
HS 20-44

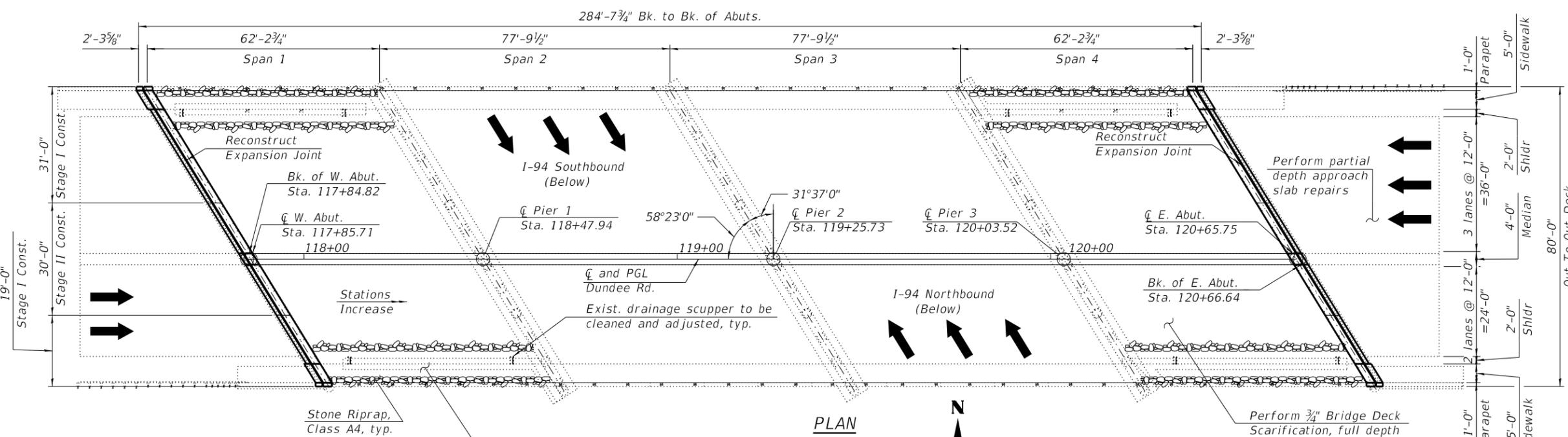
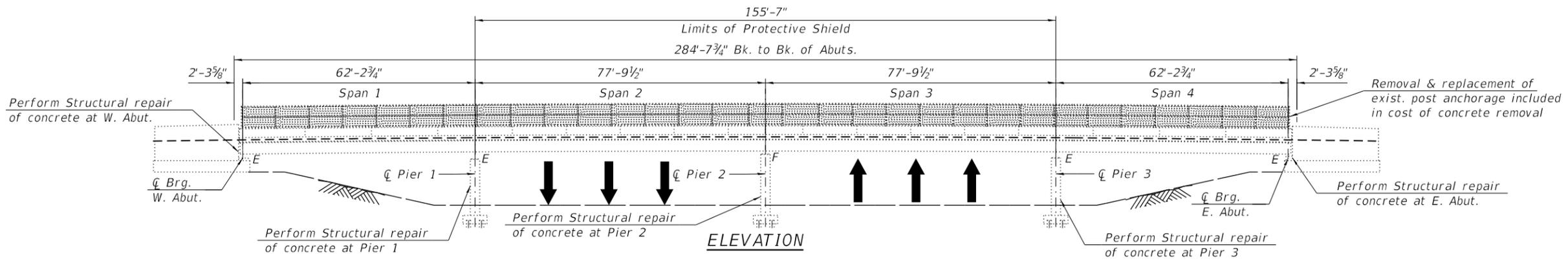
DESIGN SPECIFICATION
2002 AASHTO Standard Specification
for Highway Bridges

DESIGN STRESSES

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

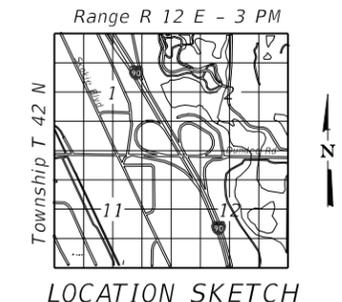
ORIGINAL CONSTRUCTION (1949)
fs = 20,000 psi (Reinforcing Steel)
fs = 18,000 psi (Structural Steel)

RECONSTRUCTION (1986)
f'c = 3,500 psi (Concrete)
fy = 60,000 psi (Reinforcement)
fs = 24,000 psi (Grade 60)



SCOPE OF WORK

1. Provide protective shielding within limits as indicated on plans.
2. Scarify 3/4" from the bridge deck slab.
3. Perform full and partial depth repairs to deck slab and approach pavement.
4. Clean all deck drains and adjust existing drainage scuppers.
5. Reconstruct bridge deck expansion joints at the East and West Abutments and install new performed joint strip seal.
6. Apply a 2 1/2" bridge deck latex concrete overlay and reconstructed transverse expansion joint areas.
7. Apply bridge deck grooving for the bridge deck.
8. Perform structural steel repairs for steel members as shown on Sheet S-19
9. Perform structural concrete repairs for the Abutments and Piers 1, 2 and 3.
10. Apply protective coat on the reconstructed transverse expansion joint areas.
11. Remove existing paved ditches and replace with riprap.
12. Install Deck Drain Extensions



SIGNED *Moussa A. Issa*
DR. MOUSSA A. ISSA, S.E. IL. LIC. NO. 081-005738
EXPIRES 11-30-2020

DATE 12/05/2018 FOR SHEETS S-01 THRU S-25

GENERAL PLAN AND ELEVATION
DUNDEE RD OVER EDENS EXPRESSWAY
F.A.I. RTE. 94 - SECTION 1314.1-I
COOK COUNTY
STATION 119+25.73
STRUCTURE NO. 016-0939

MODEL: Default
FILE NAME: P:\1710-745_PTB185-002_AES\WO#6 IL 68 over 1-94\CAD_Sheets\0160939-60M72-5001-GPE.dgn
12/5/2018 12:14:58 PM



USER NAME =	DESIGNED - KJD, EK	REVISED -
PLOT SCALE =	CHECKED - MI, RTB	REVISED -
PLOT DATE =	DRAWN - KJD, EK	REVISED -
	DATE - 12/05/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	38
CONTRACT NO. 60M72				

ILLINOIS FED. AID PROJECT

GENERAL NOTES:

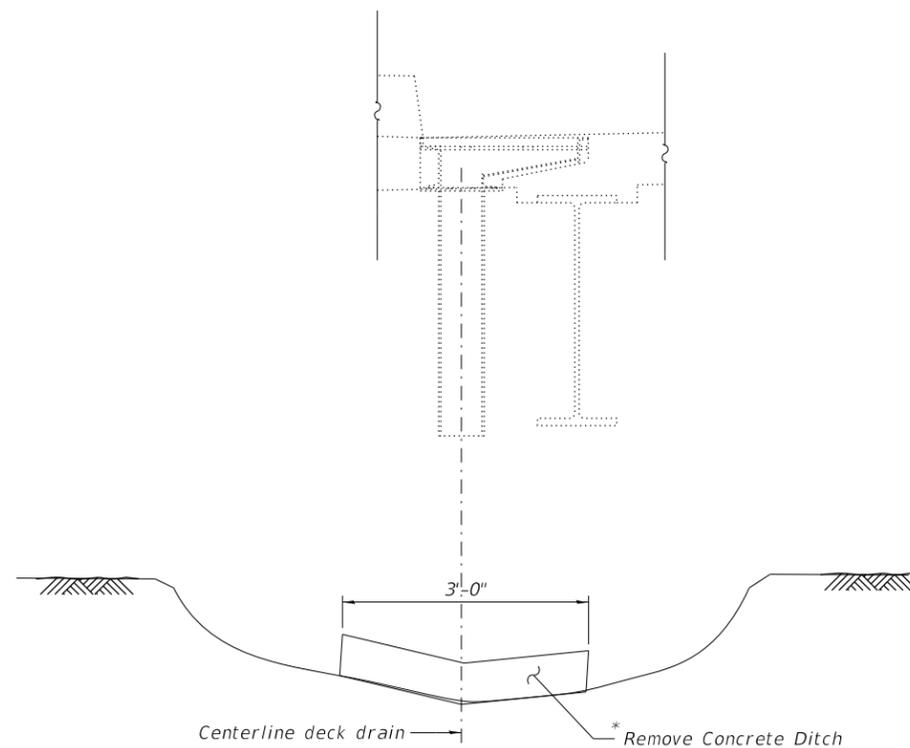
- Reinforcement bars designated (E) shall be epoxy coated.
- The Contractor shall take all necessary precautions for the protection of passing vehicles from falling objects and/or materials until completion of the work.
- Prior to pouring the new concrete deck for expansion joints reconstruction and deck slab repairs, all heavy or looser rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by method that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- Joint openings shall be adjusted according to article 520.04 of the standard specifications when the deck is poured at an ambient temperature other than 50° F.
- Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "cleaning and painting contact surface areas of existing steel structures".
- 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 based at the unit price bid for the work.
- All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Structural Steel Repair.
- 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 approved bar splicer or anchorage system. Cost included with Concrete Removal.
- All new fasteners shall be high strength bolts. Holes shall be subpunched or subdrilled 1 1/16" dia. and reamed in the field to 1 3/16" dia. for 3/4" dia. bolts, unless otherwise noted.
- Grind existing nicks, gouges and shallow cracks in the damaged beams as shown by the details included in the plans. Any cracks that cannot be removed by grinding approximately 1/4" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The Cost of grinding is included in Structural Steel Repair.

INDEX OF SHEETS

- S-01 General Plan and Elevation
- S-02 General Notes, Index of Sheets & Total Bill of Material
- S-03 Stage Construction
- S-04 Temporary Concrete Barrier
- S-05 Bridge Deck Repair Plan
- S-06 W. Abutment Joint Removal and Replacement (Sheet 1 of 2)
- S-07 W. Abutment Joint Removal and Replacement (Sheet 2 of 2)
- S-08 W. Abutment Joint Removal and Replacement details I
- S-09 W. Abutment Joint Removal and Replacement details II
- S-10 E. Abutment Joint Removal and Replacement (Sheet 1 of 2)
- S-11 E. Abutment Joint Removal and Replacement (Sheet 2 of 2)
- S-12 E. Abutment Joint Removal and Replacement details I
- S-13 E. Abutment Joint Removal and Replacement details II
- S-14 Prefomed Joint Strip Seal Sidewalk (Sheet 1 of 3)
- S-15 Prefomed Joint Strip Seal Sidewalk (Sheet 2 of 3)
- S-16 Prefomed Joint Strip Seal Sidewalk (Sheet 3 of 3)
- S-17 Adjusting Drainage Scupper Details
- S-18 Framing Plan
- S-19 Structural Steel Repair Details
- S-20 West Abutment Repairs
- S-21 East Abutment Repairs
- S-22 Pier 1 Repairs
- S-23 Pier 2 Repairs
- S-24 Pier 3 Repairs
- S-25 Bar Splicers

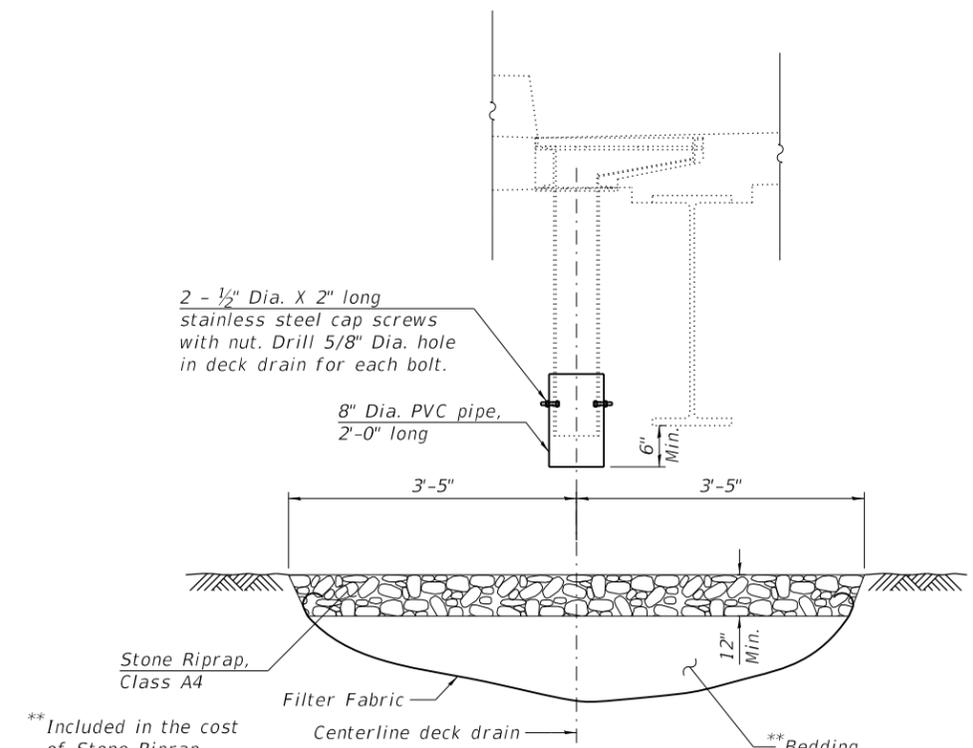
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER.	SUB.	TOTAL QUANTITY
Stone Riprap, Class A4	SQ YD	-	218	218
Filter Fabric	SQ YD	-	311	311
Concrete Removal	CU YD	27.0	1.6	28.6
Protective Shield	SQ YD	1452	-	1452
Concrete Structures	CU YD	-	1.6	1.6
Concrete Superstructure	CU YD	29.0	-	29.0
Bridge Deck Grooving	SQ YD	1910	-	1910
Protective Coat	SQ YD	68	6	74
Reinforcement Bars, Epoxy Coated	POUND	3940	-	3940
Bar Splicers	EACH	52	-	52
Prefomed Joint Strip Seal	FOOT	188	-	188
Approach Slab Repair (Partial Depth)	SQ YD	19	-	19
Structural Steel Repair	POUND	385	-	385
Bridge Deck Latex Concrete Overlay, 2 1/2 Inches	SQ YD	2001	-	2001
Bridge Deck Scarification 3/4"	SQ YD	2001	-	2001
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	SQ FT	6	1078	1084
Deck Drain Extensions	EACH	3	-	3
Deck Slab Repair (Full Depth, Type I)	SQ YD	8	-	11
Drainage Scuppers to be Adjusted	EACH	8	-	8



DITCH REMOVAL

* Cost of ditch removal is included in the cost of concrete removal.



DECK DRAIN EXTENSION AND RIPRAP DETAIL

MODEL: Default
FILE NAME: P:\1710-745 PTB185-002 AES\WO#6 IL 68 over I-94\CAD_Sheets\0160939-60M72-5002-GenNotes.dgn
12/5/2018 12:14:59 PM



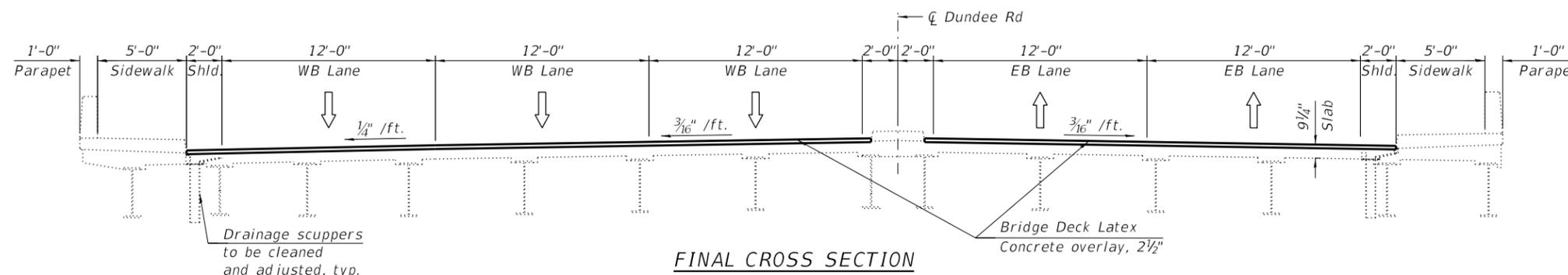
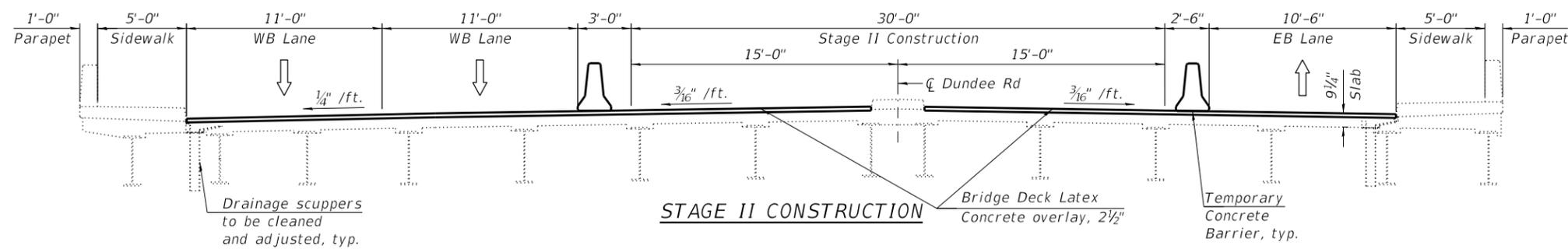
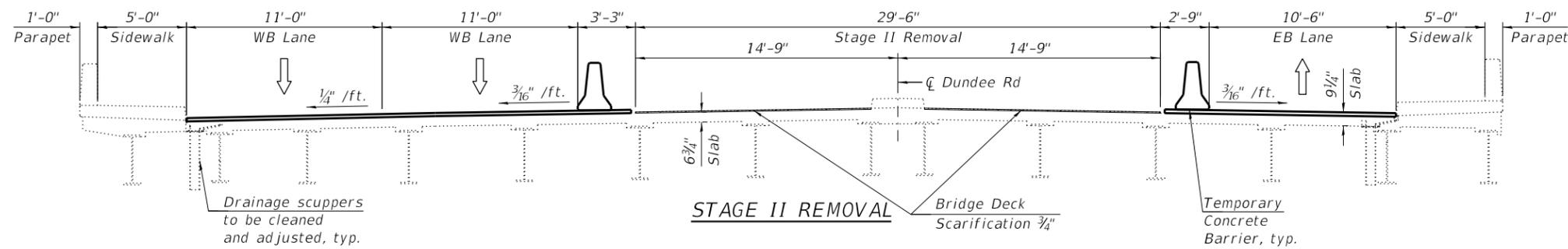
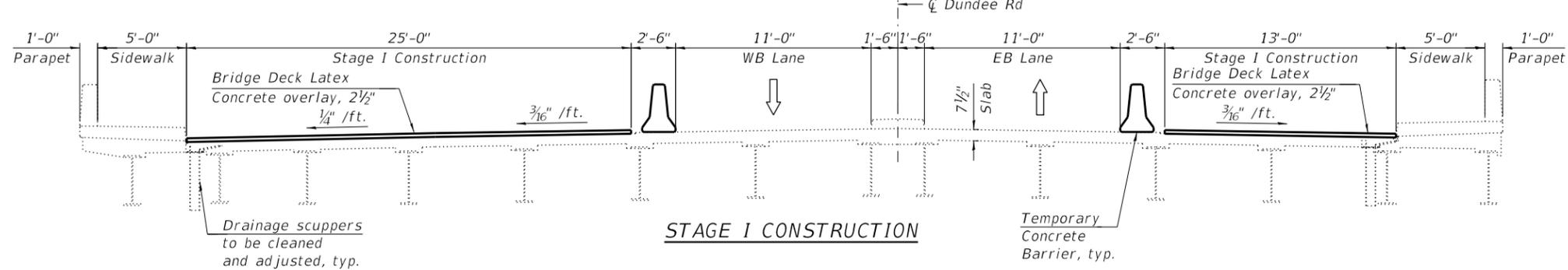
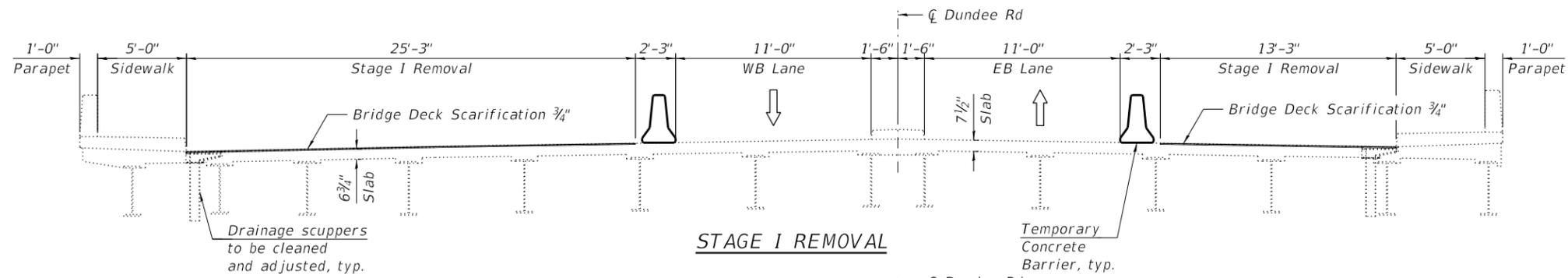
USER NAME =	DESIGNED - KJD	REVISED -
PLOT SCALE =	CHECKED - MI, RTB	REVISED -
PLOT DATE =	DRAWN - KJD	REVISED -
	DATE - 12/05/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIAL
S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY**

SHEET S-02 OF S-25 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	39
CONTRACT NO. 60M72				
		ILLINOIS	FED. AID PROJECT	



MODEL: Default
 FILE NAME: P:\1710-745 PTB\185-002 AES\WO#6 IL 68 over 1-94\CAD_Sheets\0160939-60M72-5003-Stageing.dgn
 12/5/2018 12:15:01 PM



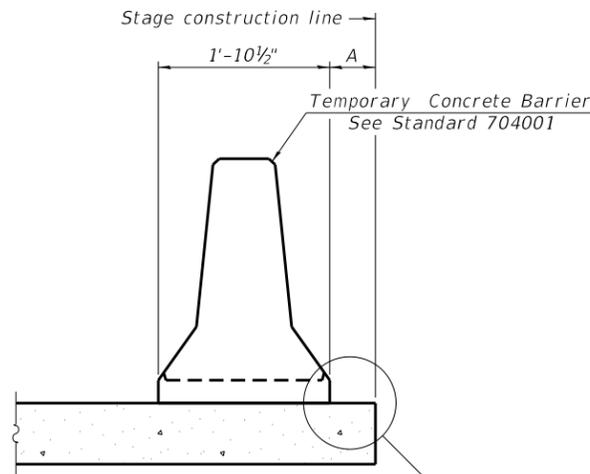
USER NAME =	DESIGNED - KJD	REVISED -
	CHECKED - MI, RTB	REVISED -
PLOT SCALE =	DRAWN - KJD	REVISED -
PLOT DATE =	DATE - 12/05/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION
S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY

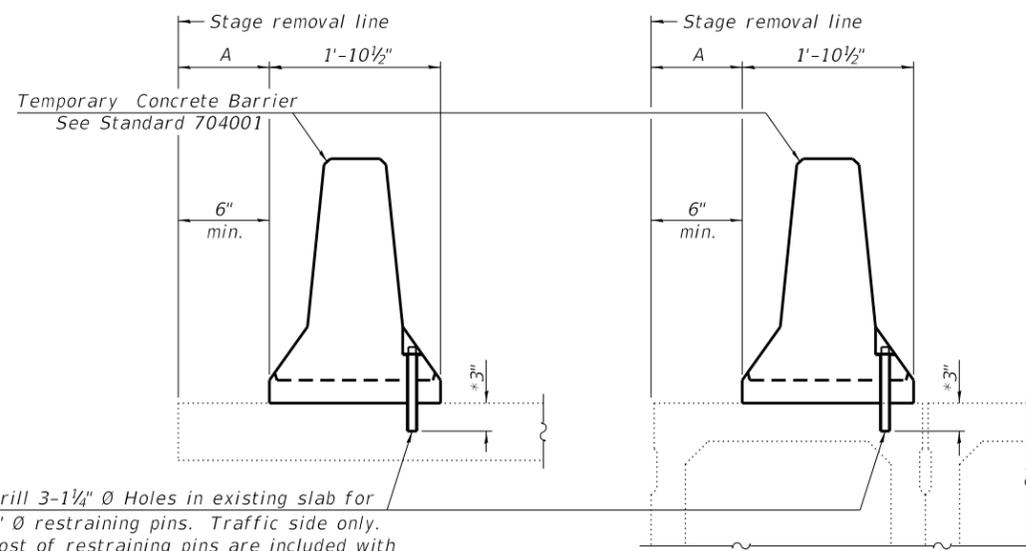
SHEET S-03 OF S-25 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	40
CONTRACT NO. 60M72				
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

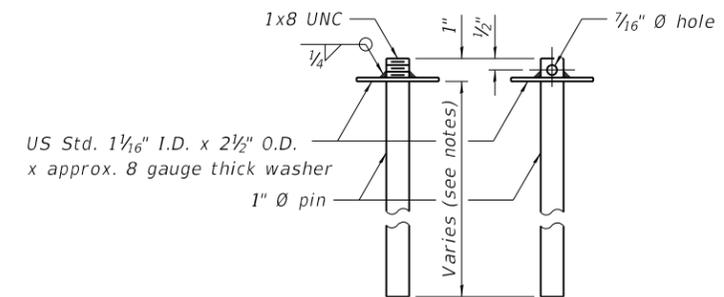


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

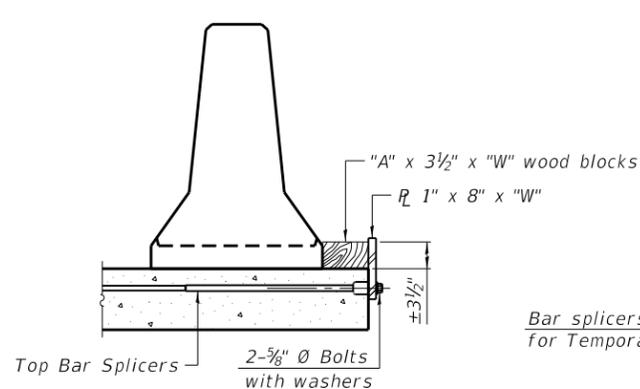
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

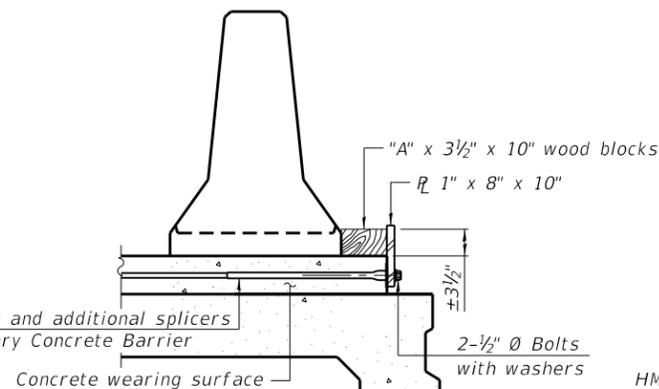


RESTRAINING PIN

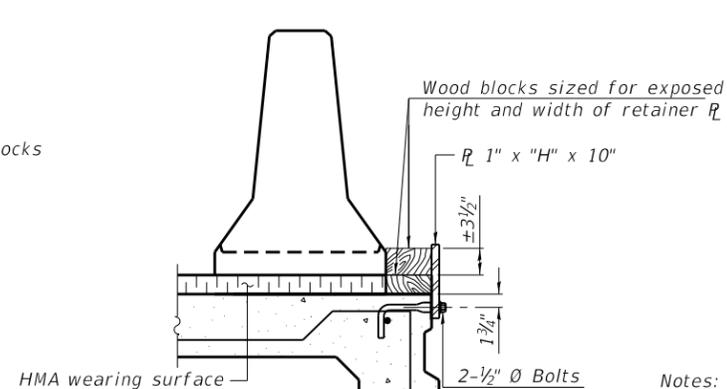
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.



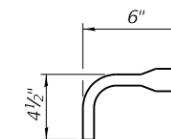
DETAIL I



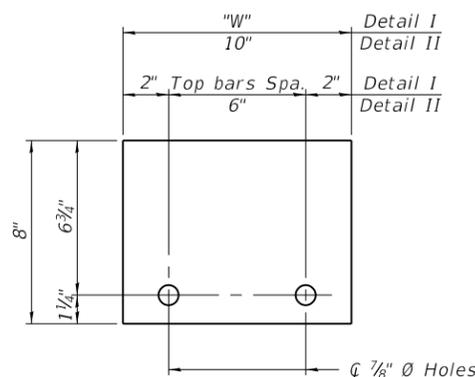
DETAIL II



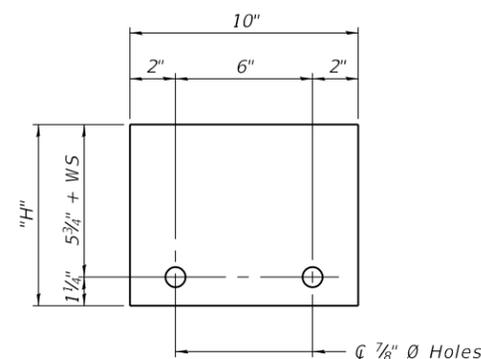
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

Notes:

- Cost of retainer assembly is included with Temporary Concrete Barrier.
- A retainer assembly shall be located at the approximate center 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 1 1/2", 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.

MODEL: Default
FILE NAME: P:\1710-745 PTB185-002 AES\WO#6 IL 68 over 1-94\CAD_Sheets\0160939-60M72-5005-TCB.dgn

R-27

8-11-2017



USER NAME =	DESIGNED - KJD	REVISED -
PLOT SCALE =	CHECKED - MI, RTB	REVISED -
PLOT DATE =	DRAWN - KJD	REVISED -
	DATE - 12/05/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

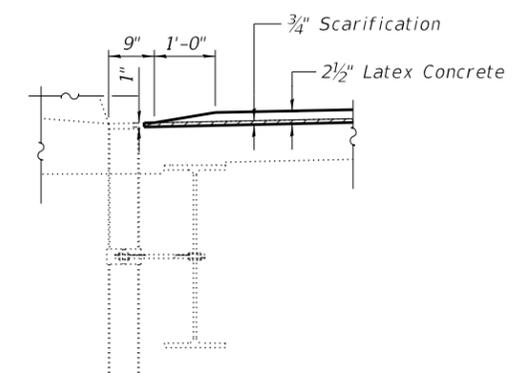
TEMPORARY CONCRETE BARRIER
S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY

SHEET S-04 OF S-25 SHEETS

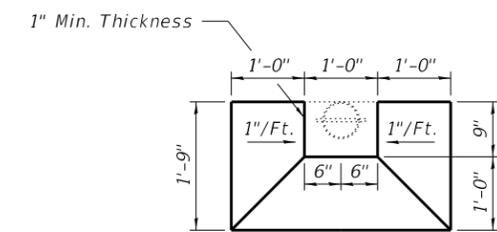
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	41
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Protective Shield	SQ YD	1452
Bridge Deck Grooving	SQ YD	1910
Approach Slab Repair (Partial Depth)	SQ YD	19
Bridge Deck Latex Concrete Overlay, 2 1/2 Inches	SQ YD	2001
Bridge Deck Scarification 3/4"	SQ YD	2001
Structural Repair of Concrete (Depth Equal or Less Than 5 Inches)	SQ FT	6
Deck Drain Extensions	EACH	3
Deck Slab Repair (Full Depth, Type I)	SQ YD	11



SECTION AT DECK DRAIN



TOP PLAN

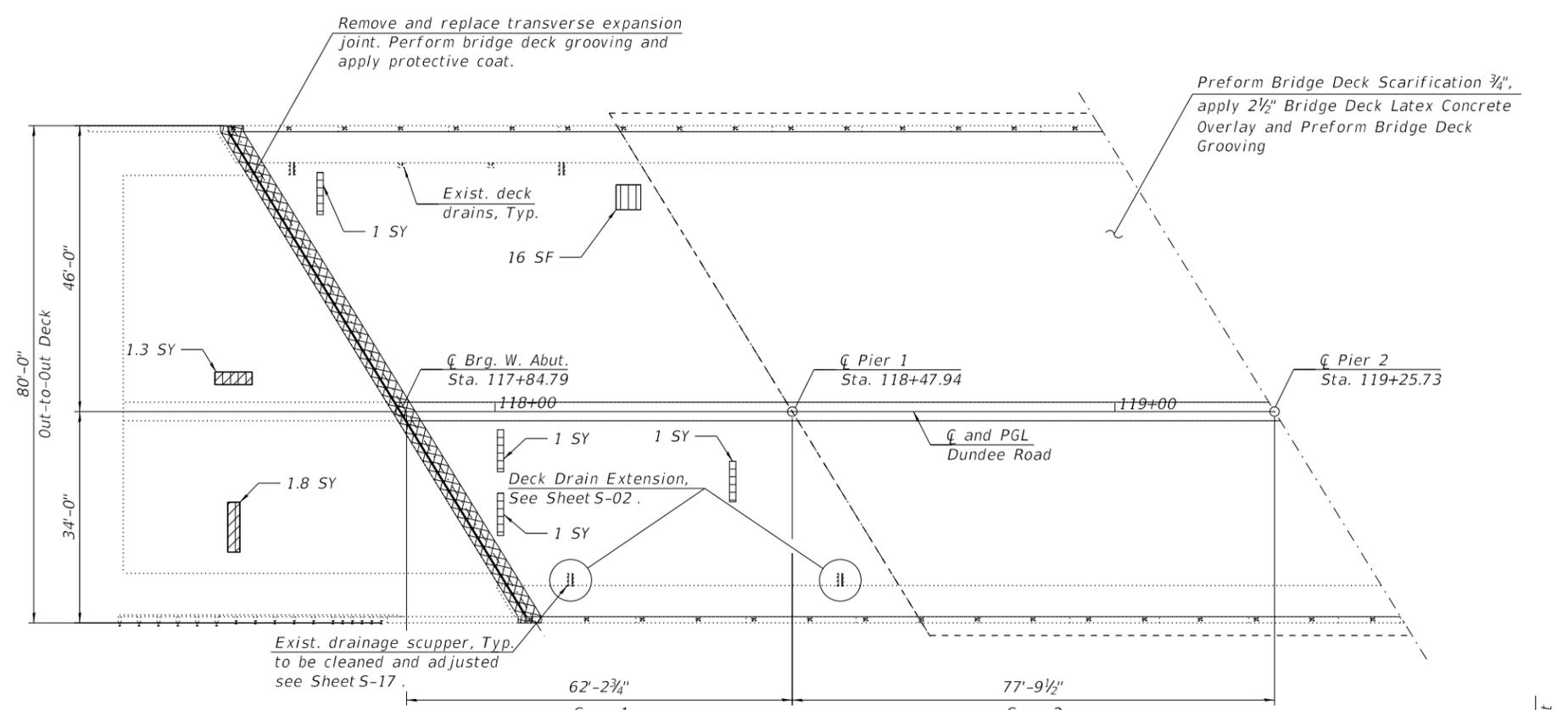
NOTES:

1. Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-built Plans.

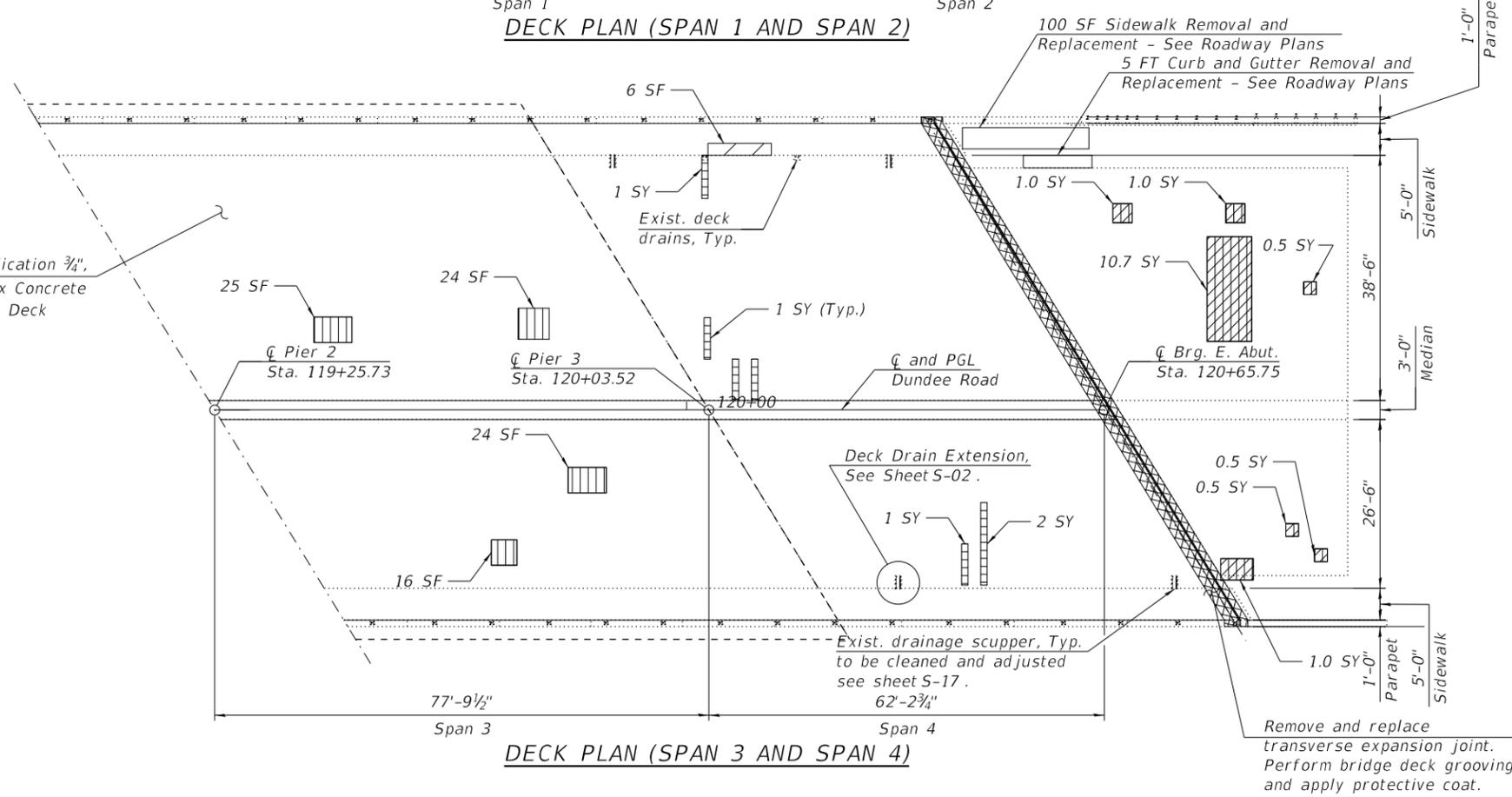
LEGEND

- Approach Slab Repair (Partial Depth)
- Bridge Deck Partial Depth Patch* (Estimated 105 SF)
- Deck Slab Repair (Full Depth, Type I)
- Concrete Removal
- Structural Repair of Concrete (Depth Equal or Less Than 5 Inches)
- Protective Shield

* For Information Only to assist Contractor in bidding. See Special Provision for "Bridge Deck Latex Concrete Overlay".



DECK PLAN (SPAN 1 AND SPAN 2)



DECK PLAN (SPAN 3 AND SPAN 4)

MODEL: Default
FILE NAME: P:\1710-745 PTB185-002 AES\WO#6 IL 68 over I-94\CAD_Sheets\0160939-60M72-5006-Deck1.dgn
12/5/2018 12:15:04 PM



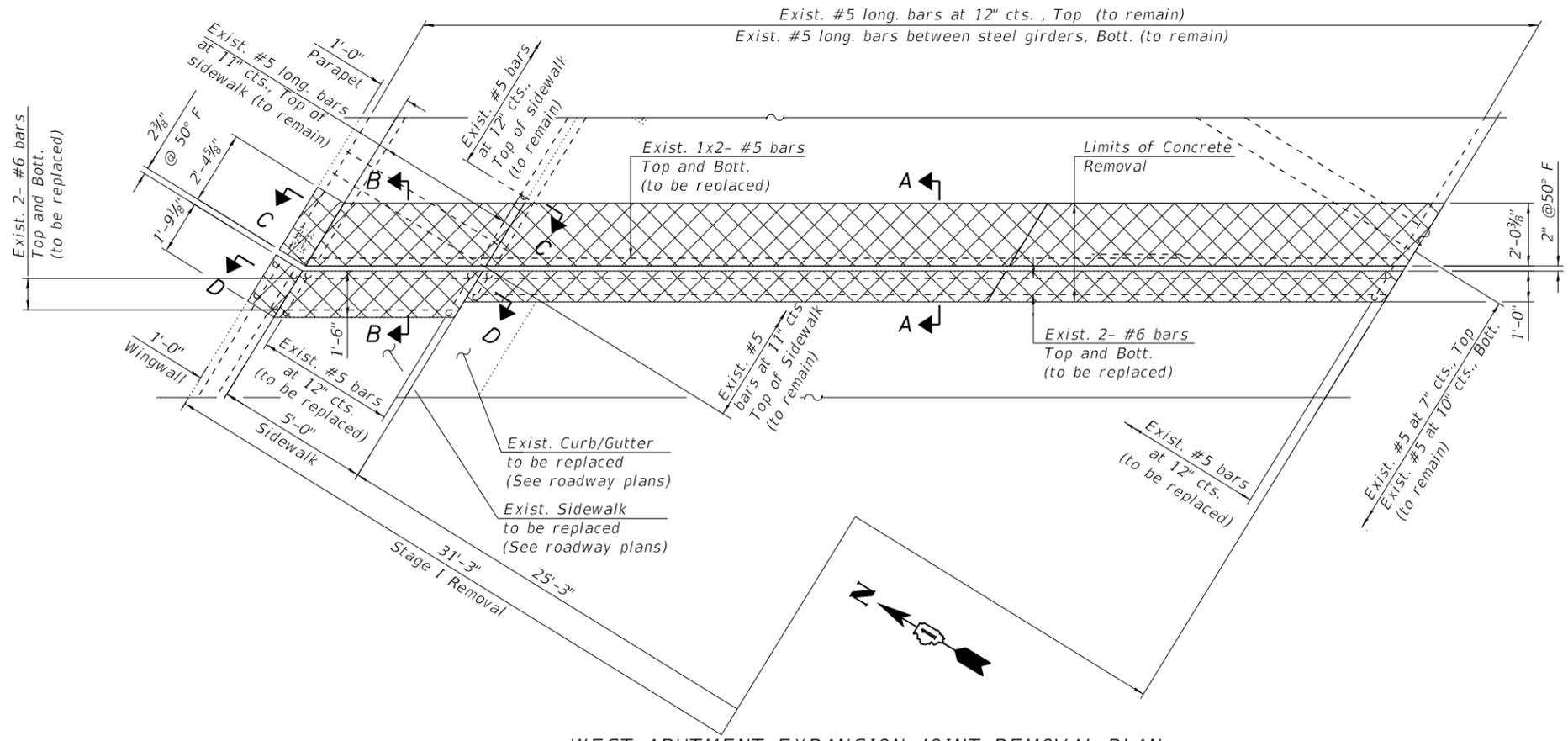
USER NAME =	DESIGNED - MS, KJD	REVISED -
	CHECKED - MI, RTB	REVISED -
PLOT SCALE =	DRAWN - KJD, MS	REVISED -
PLOT DATE =	DATE - 12/05/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

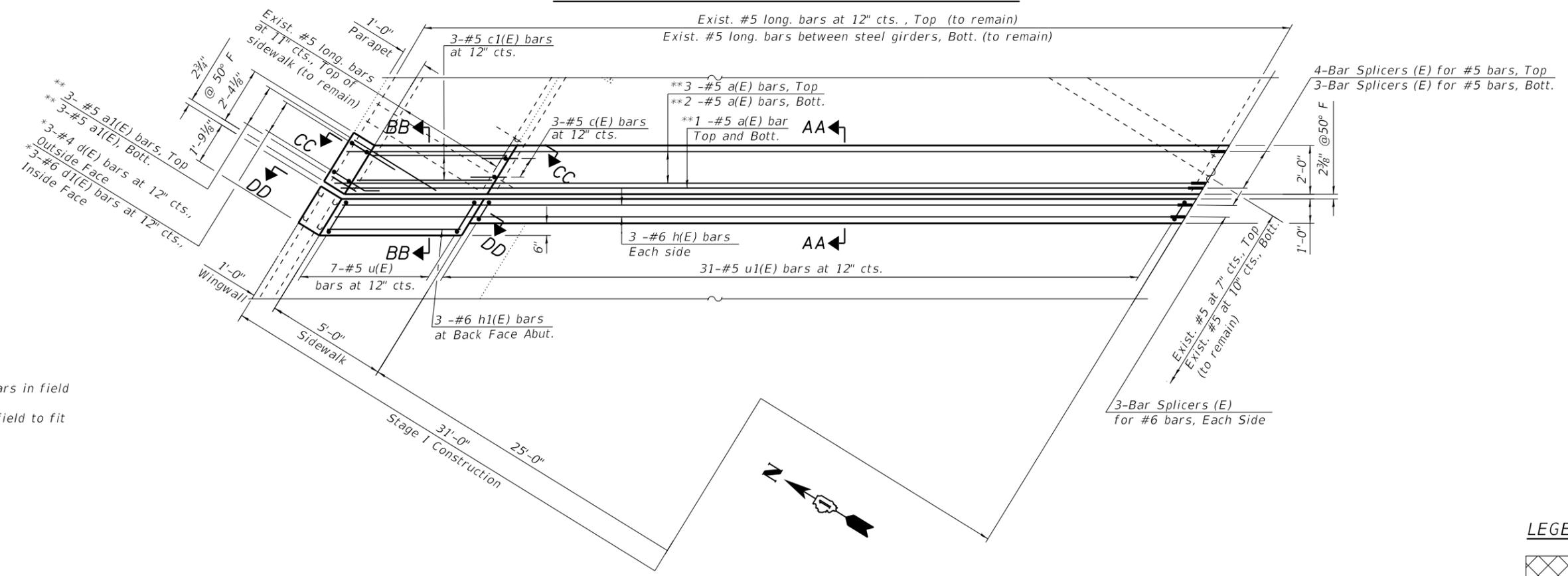
**BRIDGE DECK REPAIR PLAN
S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY**

SHEET S-05 OF S-25 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	42
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				



WEST ABUTMENT EXPANSION JOINT REMOVAL PLAN



WEST ABUTMENT EXPANSION JOINT REPLACEMENT PLAN

NOTE:
 1. For Sections A-A, B-B, C-C, D-D, AA-AA, BB-BB, CC-CC, and DD-DD, see Sheet S-08.
 2. For Rail Post Removal and Replacement Details on parapets, see Sheet S-09.

LEGEND

Concrete Removal

* Bend bars in field
 ** Cut in field to fit

MODEL: Default
 FILE NAME: P:\1710-745 PTB185-002 AES\WO#6 IL 68 over I-94\CAD_Sheets\0160939-60M72-5007-WestAbutJointRemStage1.dgn



USER NAME =	DESIGNED - SK	REVISED -
	CHECKED - MI, RTB	REVISED -
PLOT SCALE =	DRAWN - SK, KJD	REVISED -
PLOT DATE =	DATE - 12/05/2018	REVISED -

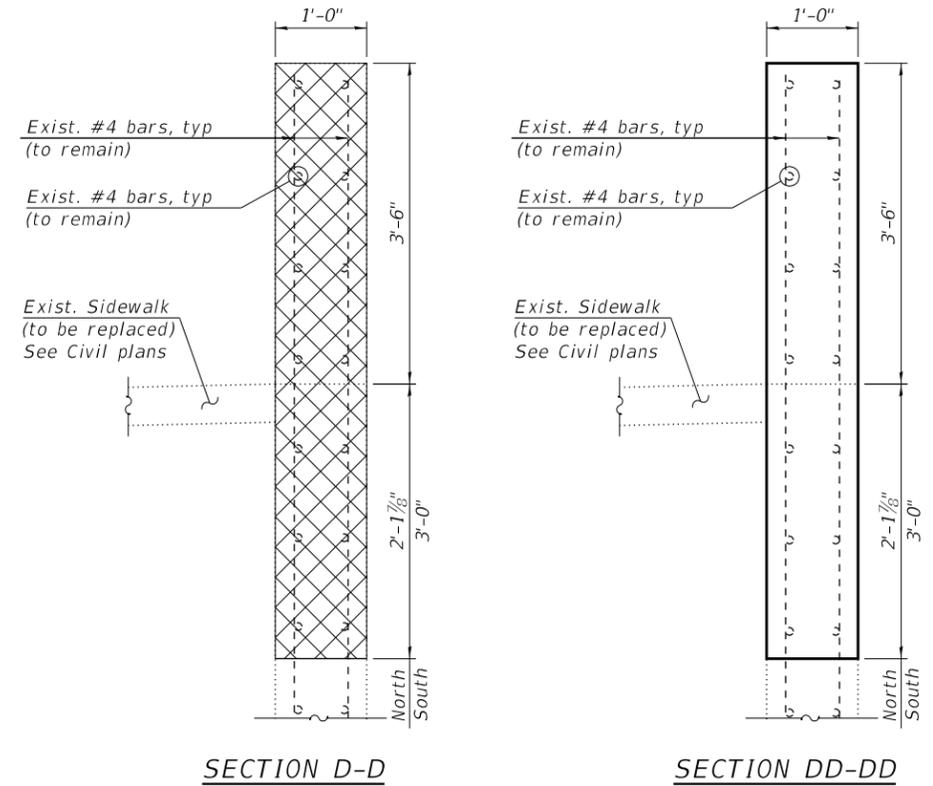
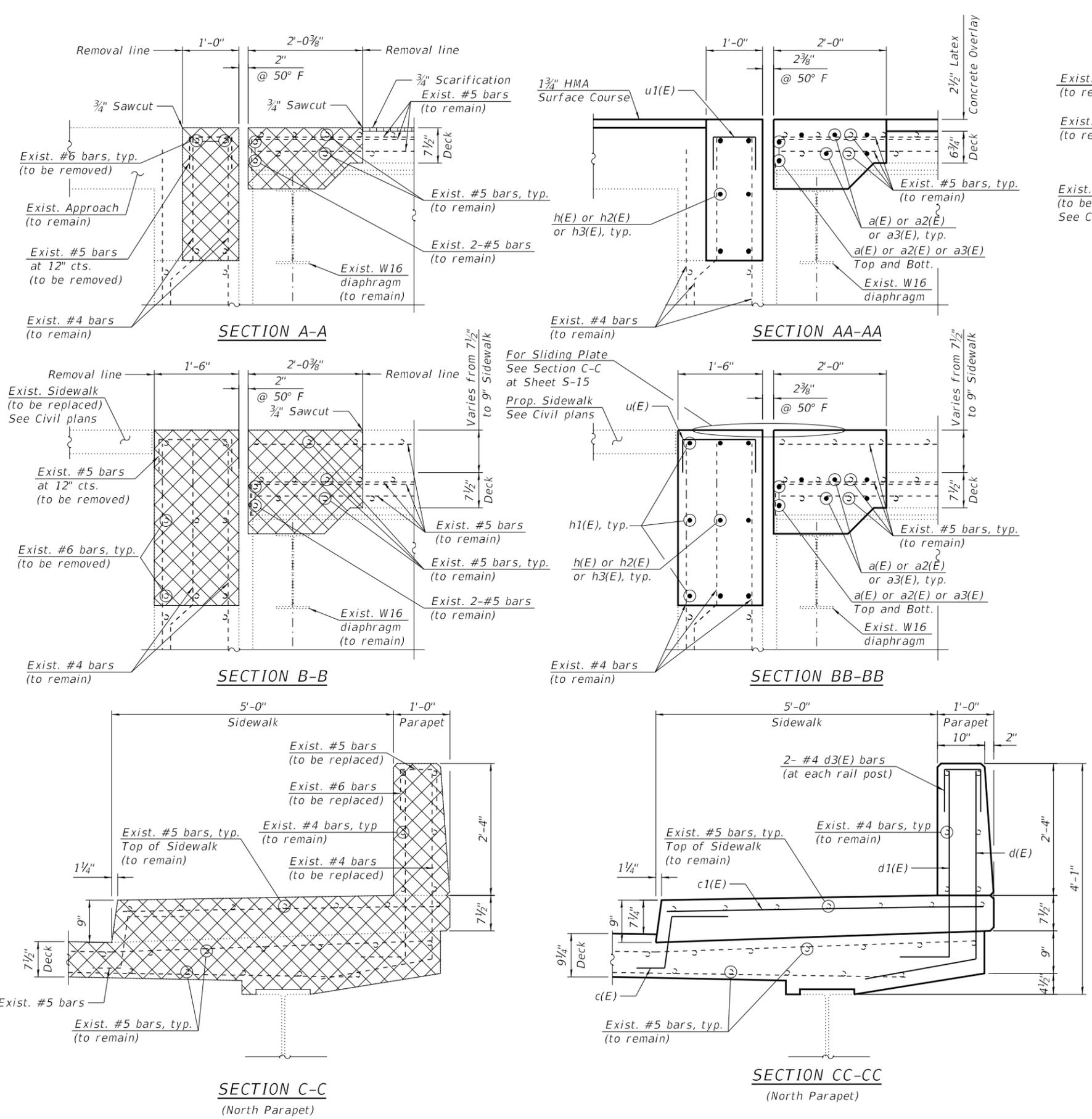
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

W. ABUTMENT JOINT REMOVAL AND REPLACEMENT(SHEET 1 OF 2)
 S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY

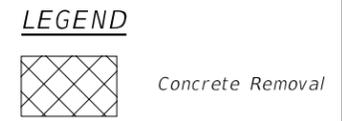
SHEET S-06 OF S-25 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	43
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: P:\1710-745 PTB185-002 AES\WO#6 IL 68 over I-94\CAD_Sheets\0160939-60M72-5009-WestAbutJointRemDetails1.dgn



- NOTES:**
1. For preformed joint strip seal details, see Sheets S-14 thru S-16.
 2. For bar splicer details, see Sheet S-25.
 3. 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 approved bar splicer or anchorage system.



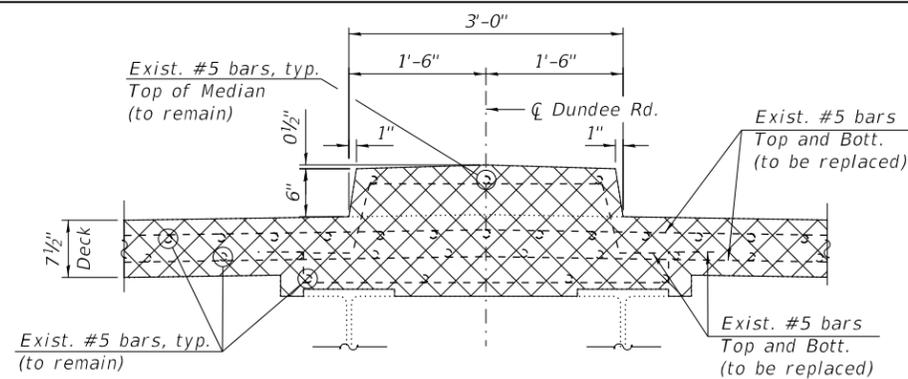
USER NAME =	DESIGNED - SK	REVISED -
PLOT SCALE =	CHECKED - MI, RTB	REVISED -
PLOT DATE =	DRAWN - SK, KJD	REVISED -
	DATE - 12/05/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

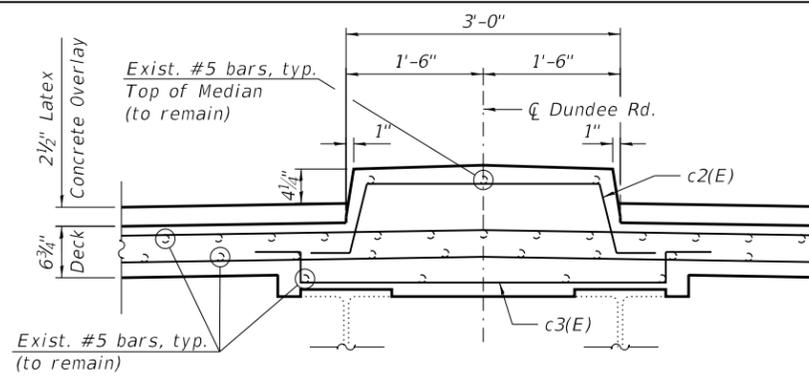
W. ABUTMENT JOINT REMOVAL AND REPLACEMENT DETAILS I
 S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	45
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

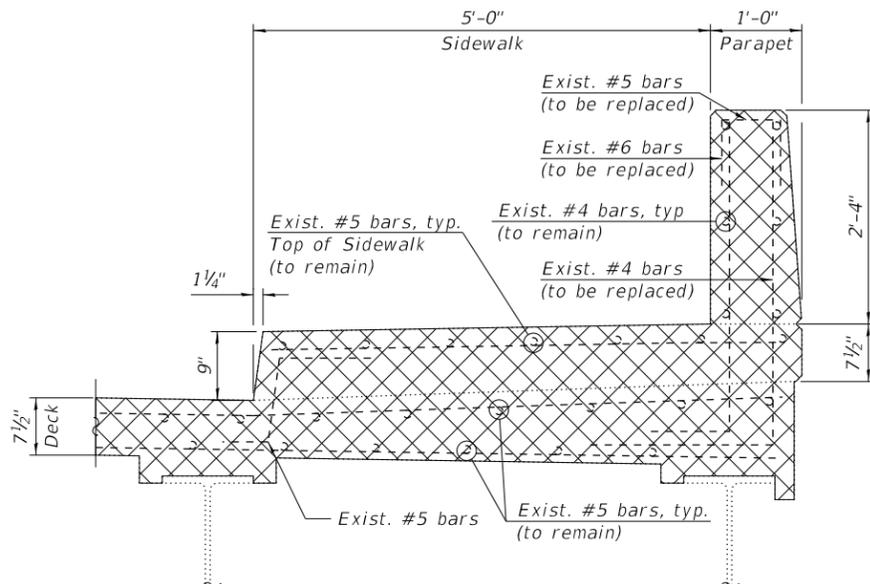
SHEET S-08 OF S-25 SHEETS



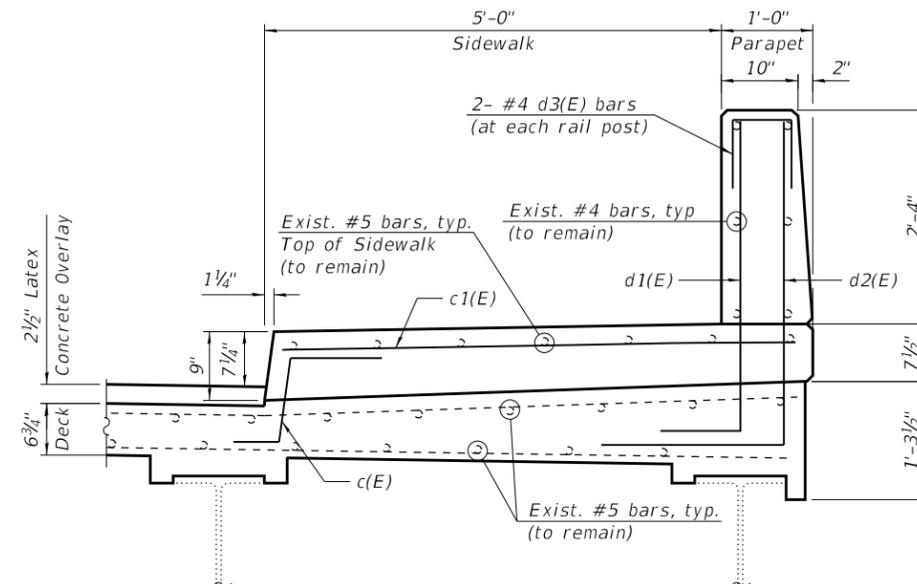
SECTION E-E



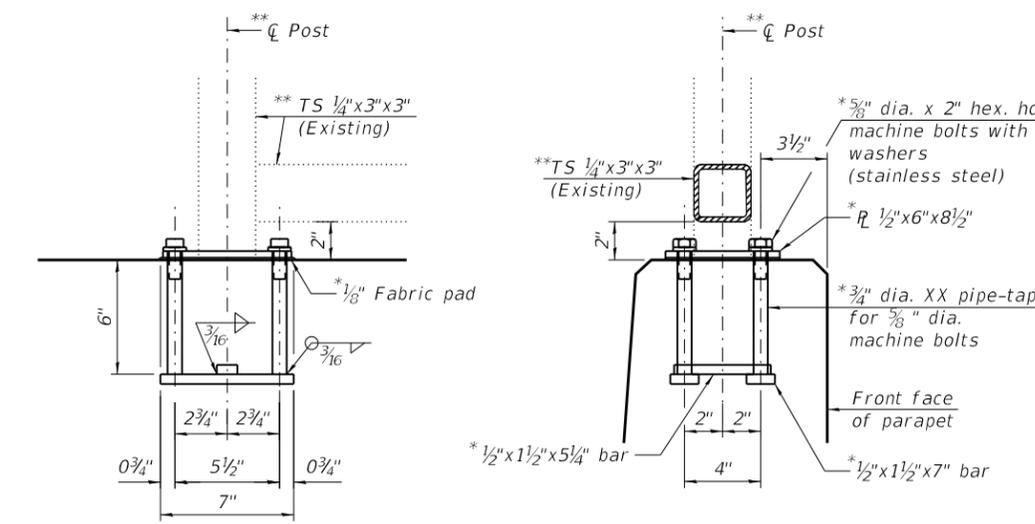
SECTION EE-EE



SECTION F-F
(South Parapet)



SECTION FF-FF
(South Parapet)



ELEVATION SECTION
RAIL POST REMOVAL AND REPLACEMENT DETAILS ON PARAPETS

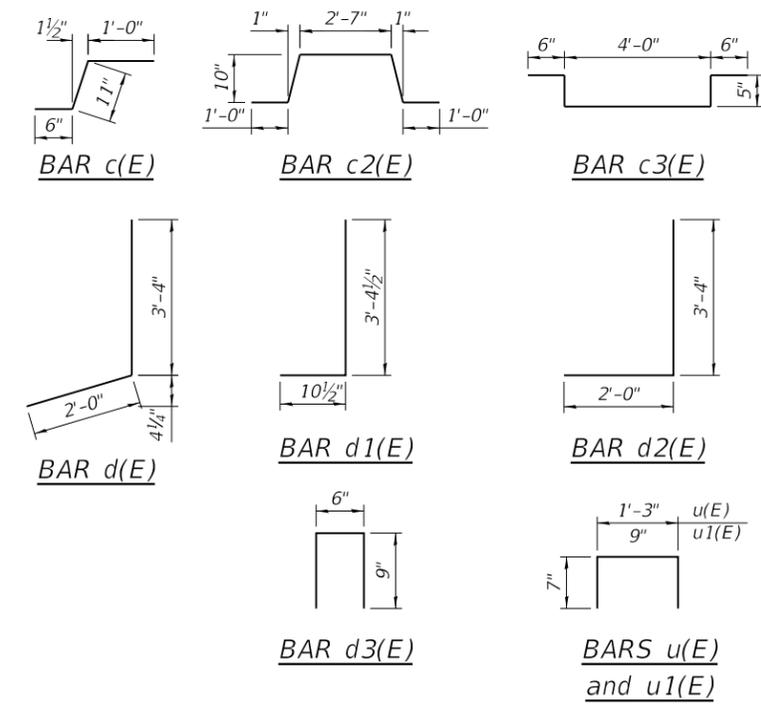
* Cost included with Concrete Superstructure.
 ** Remove and store rails in concrete removal area prior to concrete removal. Remove and store rail post in concrete removal area. Reattach rail post as shown. The Contractor must verify locations and sizes of existing holes prior to ordering 3/4" dia. XX pipes, bars, cap screws and standard flat washers. Reinstall rails after concrete superstructure is completed. Cost included with Concrete Superstructure.
 In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications. Cost included with Concrete Superstructure.

NOTES:

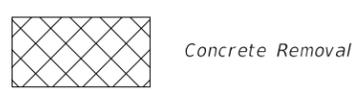
- For preformed joint strip seal details, see Sheets S-14 thru S-16.
- For bar splicer details, see Sheet S-25.
- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	7	#5	36'-1"	—————
a1(E)	12	#5	4'-3"	—————
a2(E)	7	#5	22'-1"	—————
a3(E)	7	#5	35'-0"	—————
c(E)	6	#5	2'-5"	┌───┐
c1(E)	6	#5	5'-7"	┌───┐
c2(E)	5	#5	6'-3"	┌───┐
c3(E)	3	#4	5'-10"	┌───┐
d(E)	3	#4	5'-4"	┌───┐
d1(E)	6	#6	4'-3"	┌───┐
d2(E)	3	#4	5'-4"	┌───┐
d3(E)	4	#4	2'-0"	┌───┐
h(E)	6	#6	34'-10"	—————
h1(E)	6	#6	5'-7"	—————
h2(E)	6	#6	20'-11"	—————
h3(E)	6	#6	35'-0"	—————
u(E)	14	#5	2'-5"	┌───┐
u1(E)	83	#5	1'-11"	┌───┐
Concrete Removal			Cu. Yd.	14.8
Concrete Structure			Cu. Yd.	0.8
Concrete Superstructure			Cu. Yd.	15.0
Protective Coat			Sq. Yd.	37
Reinforcement Bars, Epoxy Coated			Pound	1,970



LEGEND



MODEL: Default
FILE NAME: P:\1710-745 PTB185-002 AES\WO#6 IL 68 over 1-94\CAD_Sheets\0160939-60M72-5010-WestAbutJointRemDetails2.dgn
12/5/2018 12:15:11 PM



USER NAME =	DESIGNED - SK	REVISED -
PLOT SCALE =	CHECKED - MI, RTB	REVISED -
PLOT DATE =	DRAWN - SK, KJD	REVISED -
	DATE - 12/05/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

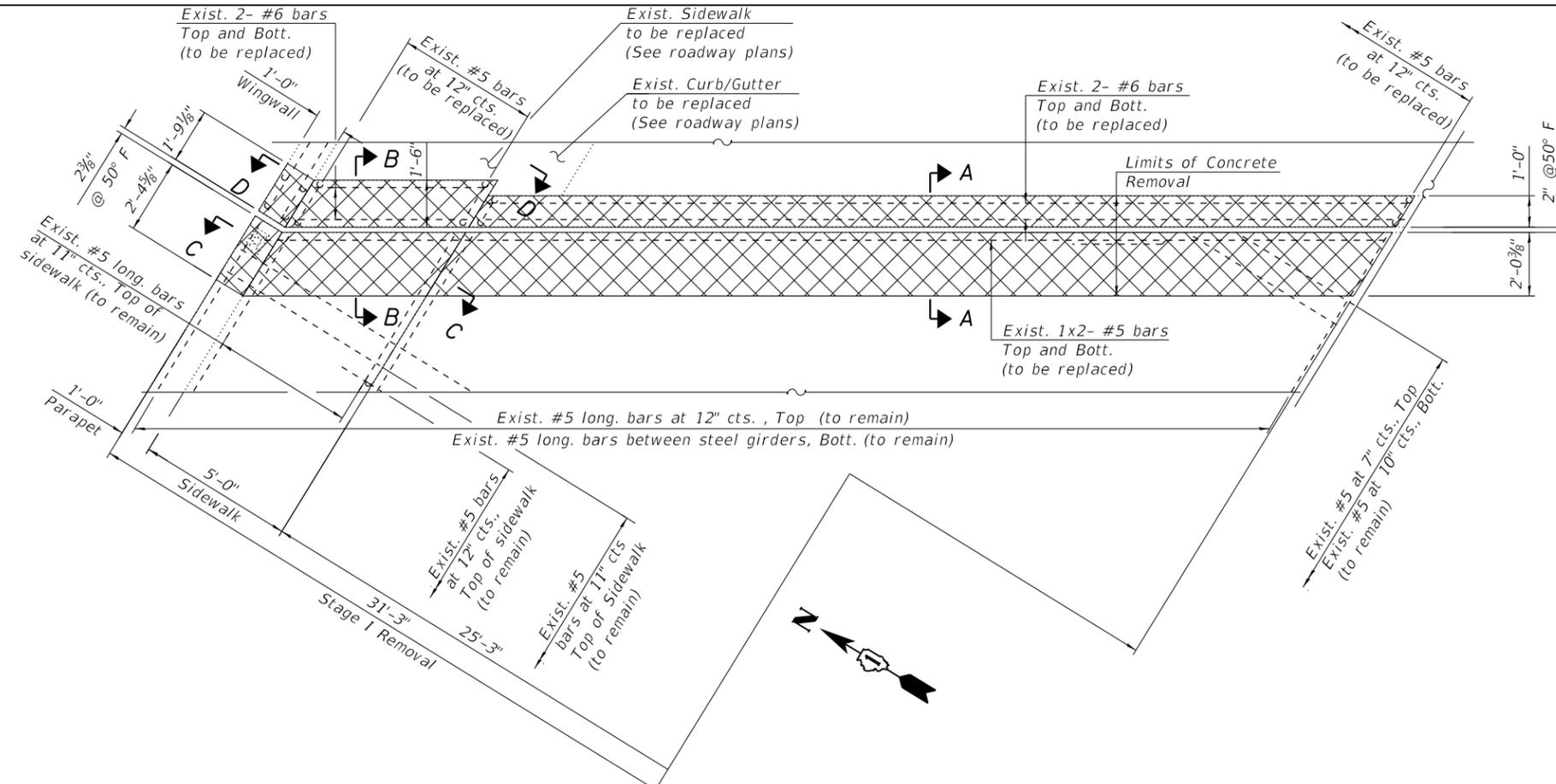
W. ABUTMENT JOINT REMOVAL AND REPLACEMENT DETAILS II
S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY

SHEET S-09 OF S-25 SHEETS

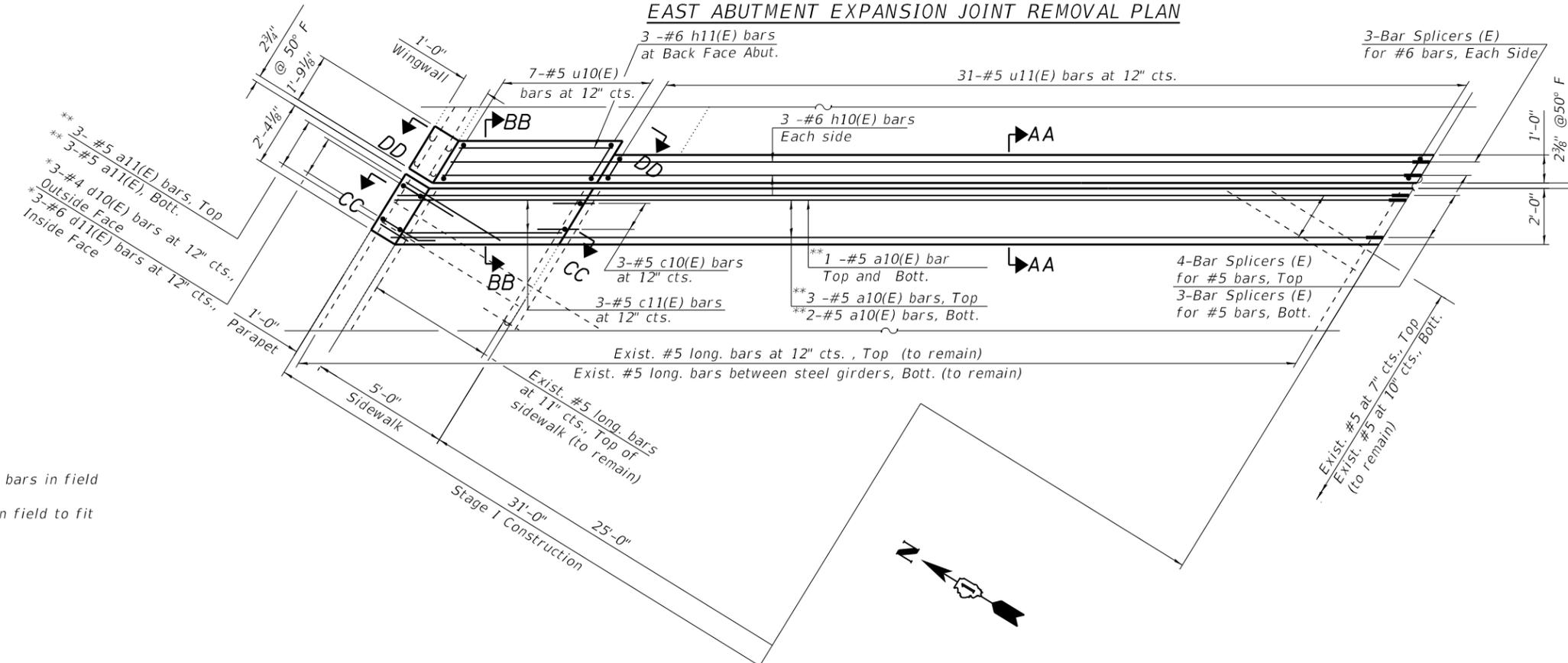
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	46
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

NOTE:

1. For Sections A-A, B-B, C-C, D-D, AA-AA, BB-BB, CC-CC, and DD-DD, see Sheet S-12.
2. For Rail Post Removal and Replacement Details on parapets, see Sheet S-13.



EAST ABUTMENT EXPANSION JOINT REMOVAL PLAN



EAST ABUTMENT EXPANSION JOINT REPLACEMENT PLAN

* Bend bars in field
 ** Cut in field to fit

LEGEND



MODEL: Default
 FILE NAME: P:\1710-745 PTB185-002 AES\WO#6 IL 68 over I-94\CAD_Sheets\0160939-60M72-5011-EastAbutJointRemStage 1.dgn
 12/5/2018 12:15:12 PM



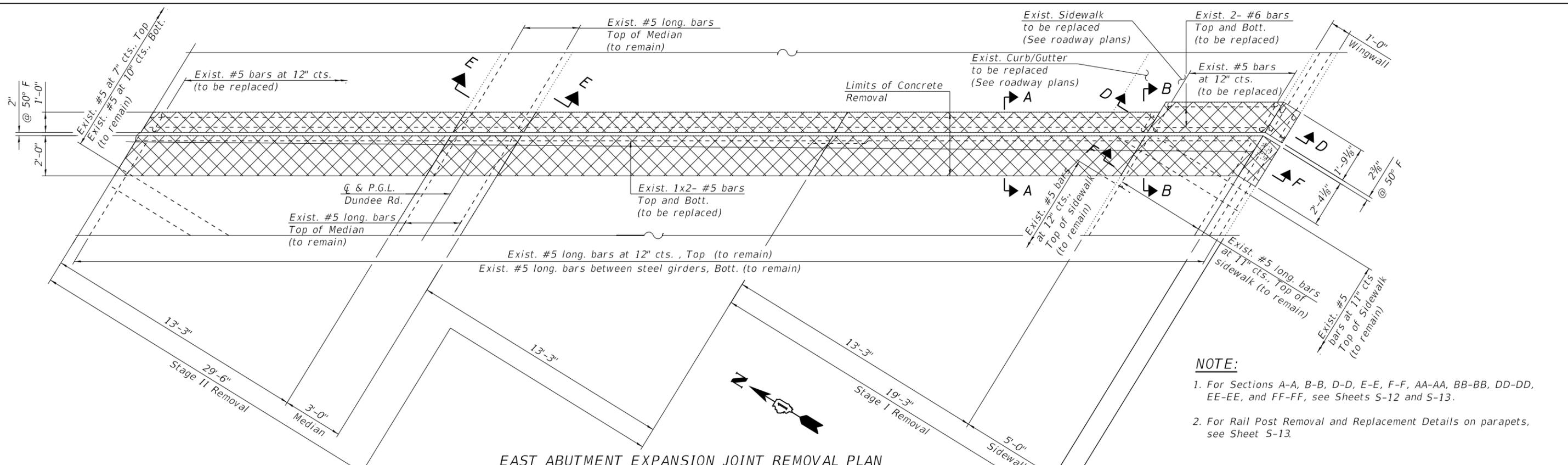
USER NAME =	DESIGNED - SK	REVISED -
CHECKED - MI, RTB	REVISED -	
PLOT SCALE =	DRAWN - SK, KJD	REVISED -
PLOT DATE =	DATE - 12/05/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**E. ABUTMENT JOINT REMOVAL AND REPLACEMENT (SHEET 1 OF 2)
 S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY**

SHEET S-10 OF S-25 SHEETS

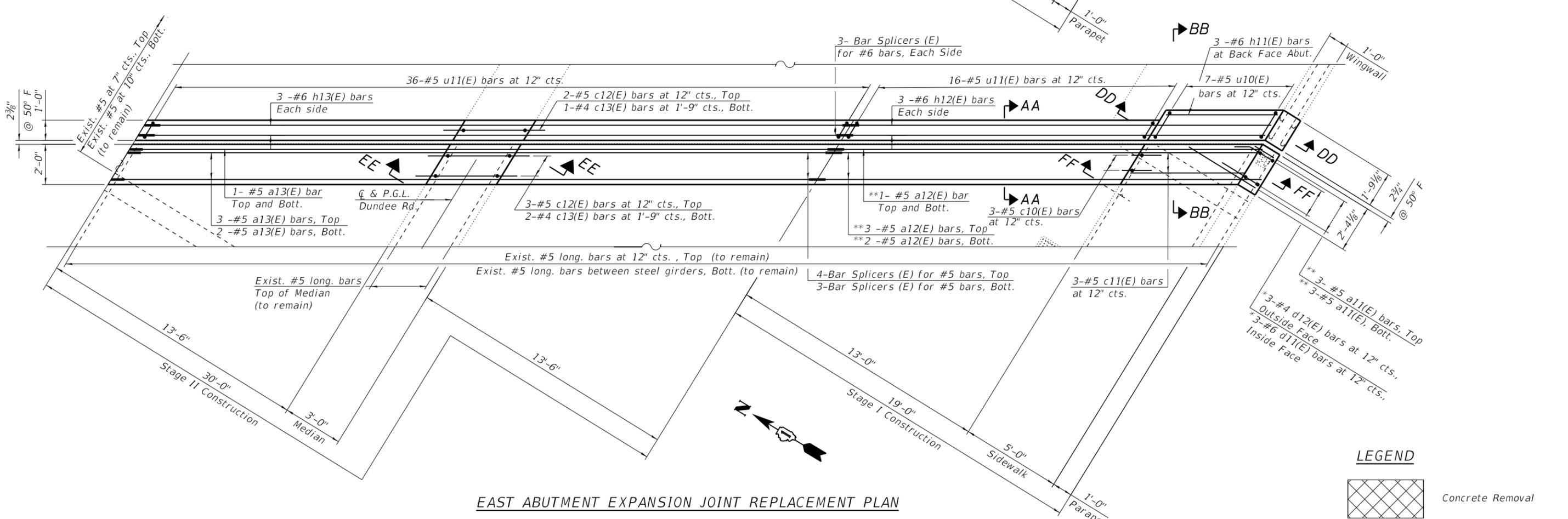
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	47
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				



NOTE:

1. For Sections A-A, B-B, D-D, E-E, F-F, AA-AA, BB-BB, DD-DD, EE-EE, and FF-FF, see Sheets S-12 and S-13.
2. For Rail Post Removal and Replacement Details on parapets, see Sheet S-13.

EAST ABUTMENT EXPANSION JOINT REMOVAL PLAN



LEGEND

Concrete Removal

EAST ABUTMENT EXPANSION JOINT REPLACEMENT PLAN

MODEL: Default
 FILE NAME: P:\1710-745 PTB185-002 AES\WO#6 IL 68 over I-94\CAD_Sheets\0160939-60M72-5012-EastAbutRemStage1&2.dgn
 12/5/2018 12:15:14 PM



USER NAME =	DESIGNED - SK	REVISED -
CHECKED - MI, RTB	REVISED -	
DRAWN - SK, KJD	REVISED -	
DATE - 12/05/2018	REVISED -	

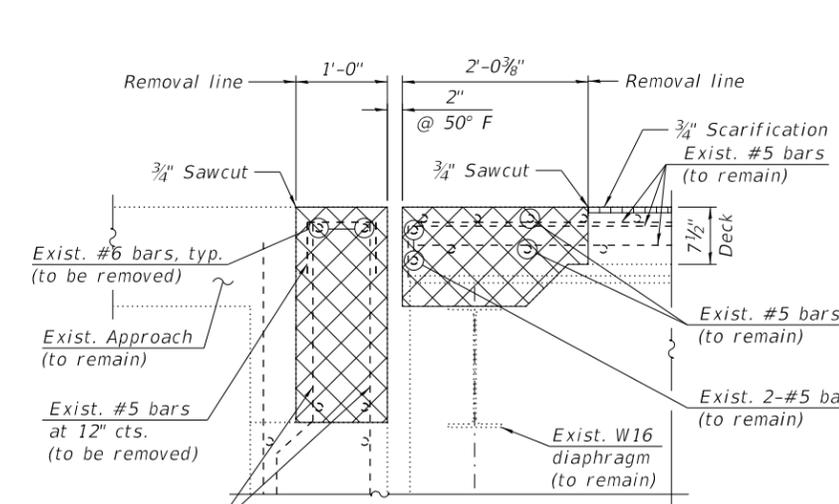
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**E. ABUTMENT JOINT REMOVAL AND REPLACEMENT (SHEET 2 OF 2)
 S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY**

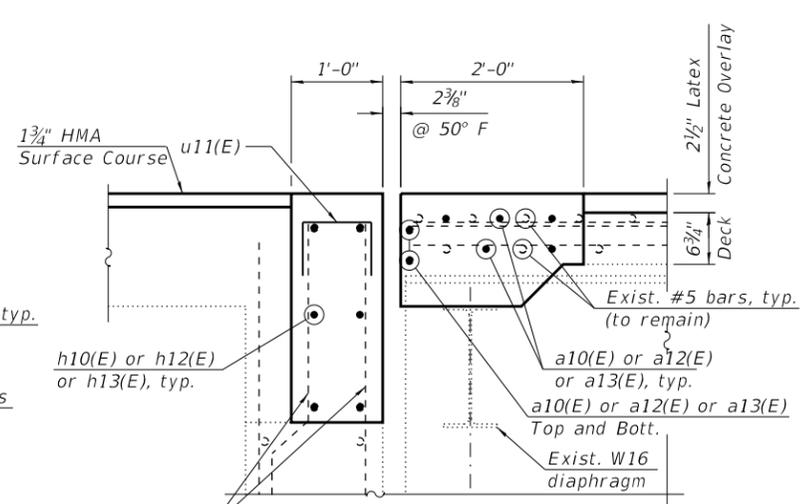
SHEET S-11 OF S-25 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	48
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

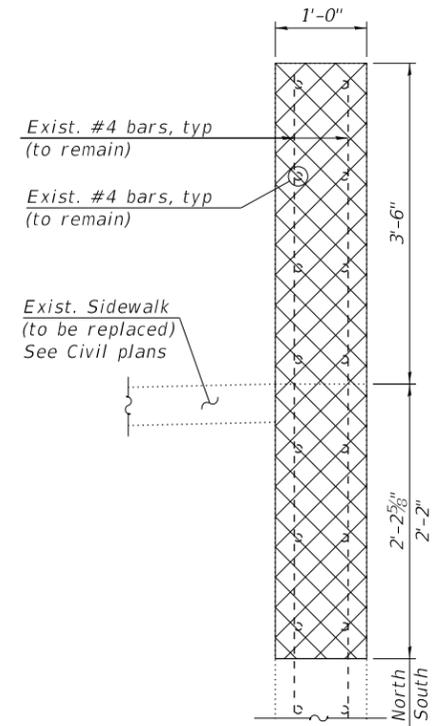
MODEL: Default
 FILE NAME: P:\1710-745 PTB185-002 AES\WO#6 IL 68 over I-94\CAD_Sheets\0160939-60M72-5013-EastAbutJointRemDetails1.dgn
 12/5/2018 12:15:15 PM



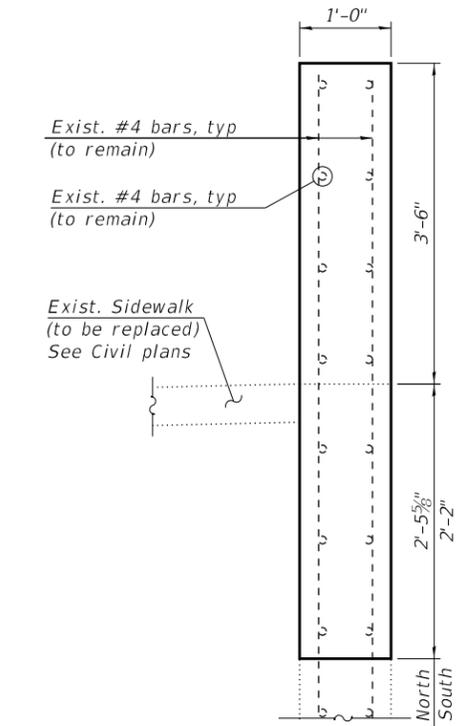
SECTION A-A



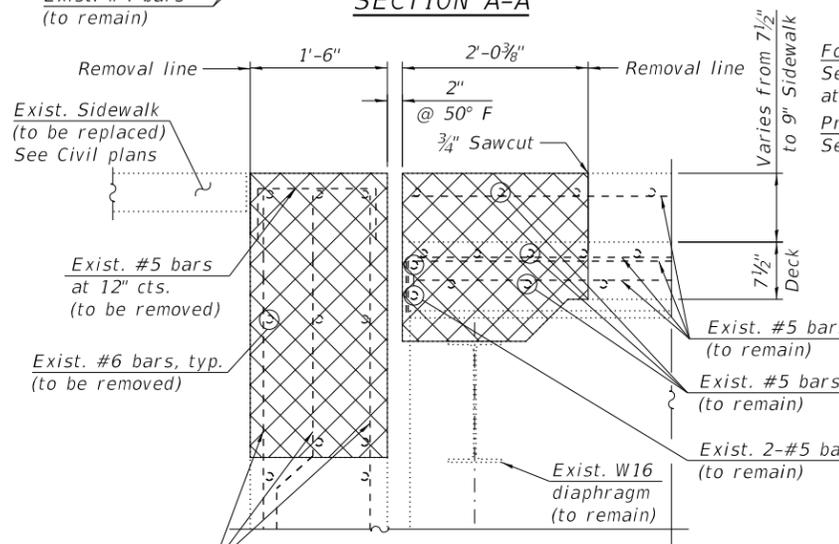
SECTION AA-AA



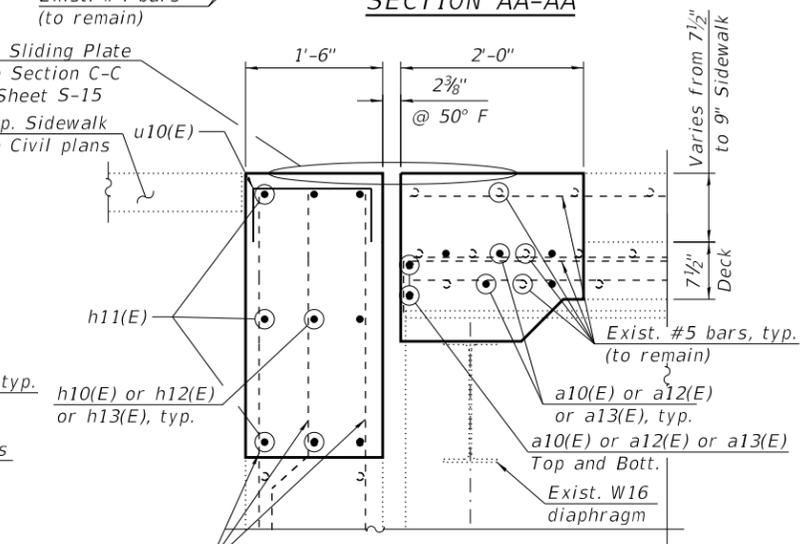
SECTION D-D



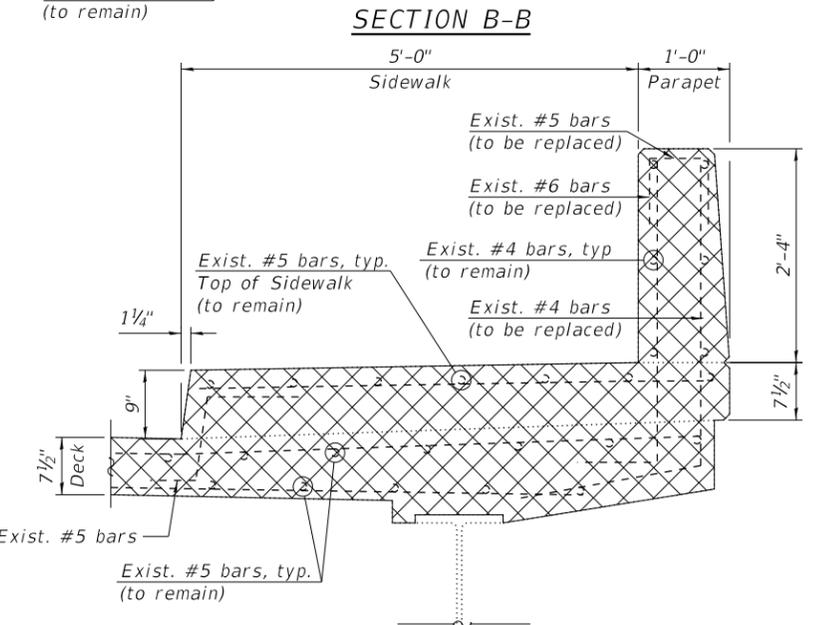
SECTION DD-DD



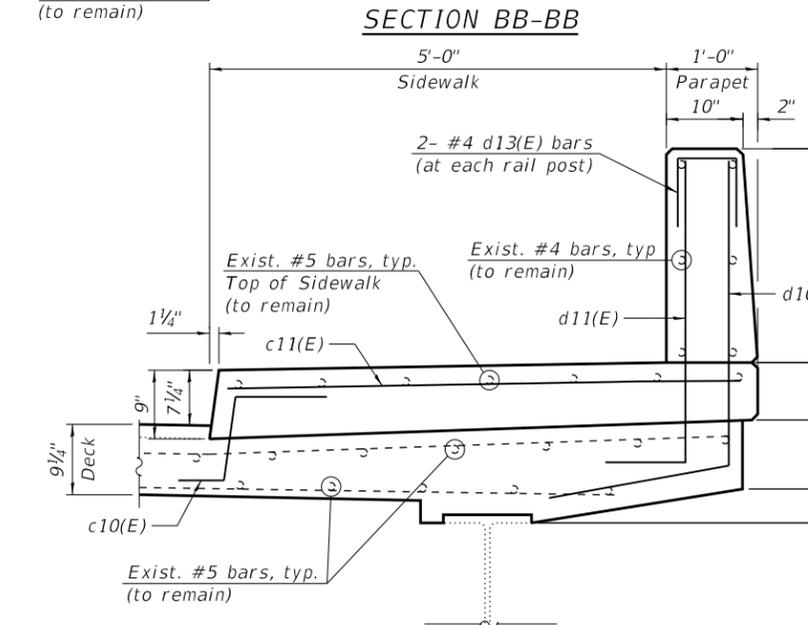
SECTION B-B



SECTION BB-BB



**SECTION C-C
 (North Parapet)**



**SECTION CC-CC
 (North Parapet)**

NOTES:

1. For preformed joint strip seal details, see Sheets S-14 thru S-16.
2. For Bar Splicer Details, see Sheet S-25
3. 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 approved bar splicer or anchorage system.

LEGEND



USER NAME =	DESIGNED - SK	REVISED -
CHECKED - MI, RTB	REVISED -	
PLOT SCALE =	DRAWN - SK, KJD	REVISED -
PLOT DATE =	DATE - 12/05/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

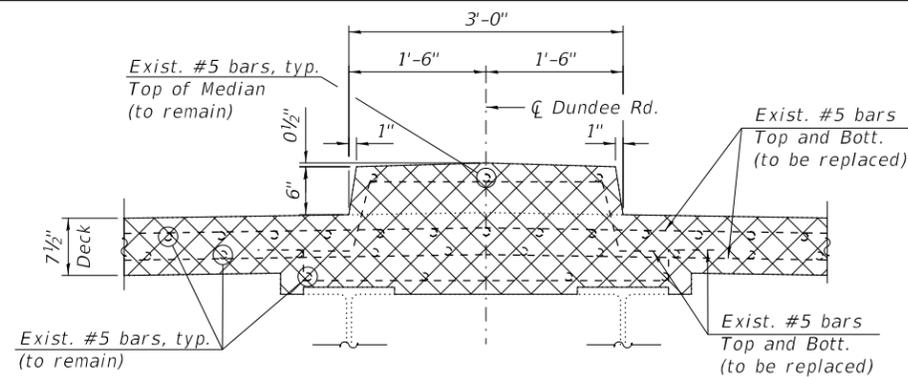
**E. ABUTMENT JOINT REMOVAL AND REPLACEMENT DETAILS I
 S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY**

SHEET S-12 OF S-25 SHEETS

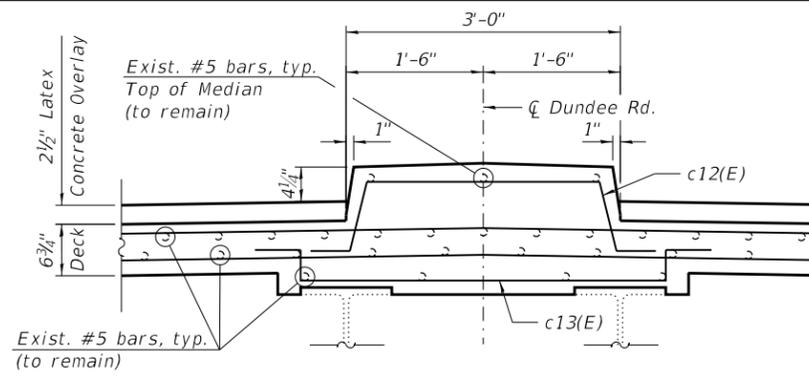
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	49
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

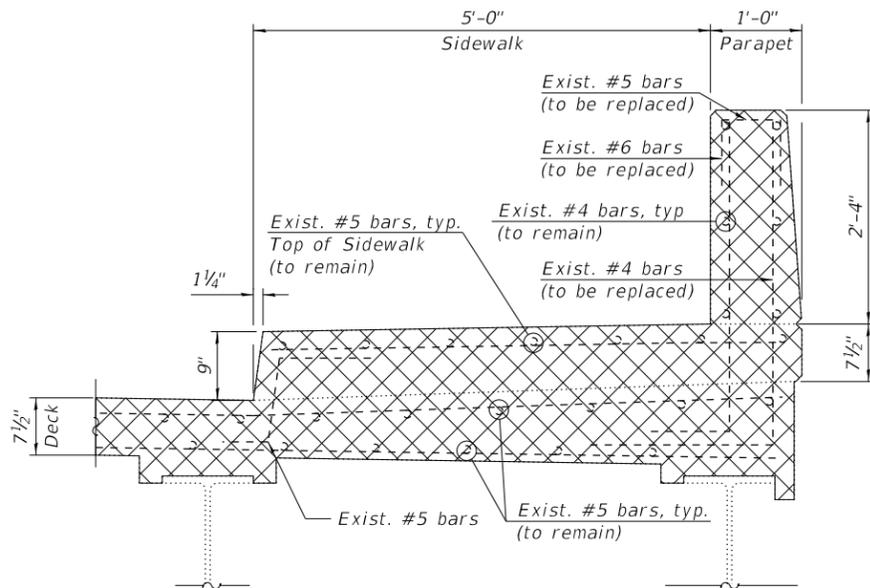
Bar	No.	Size	Length	Shape
a10(E)	7	#5	36'-1"	————
a11(E)	12	#5	4'-3"	————
a12(E)	7	#5	22'-1"	————
a13(E)	7	#5	35'-0"	————
c10(E)	6	#5	2'-5"	┌┐
c11(E)	6	#5	5'-7"	┌┐
c12(E)	5	#5	6'-3"	┌┐
c13(E)	3	#4	5'-10"	┌┐
d10(E)	3	#4	5'-4"	┌┐
d11(E)	6	#6	4'-3"	┌┐
d12(E)	3	#4	5'-4"	┌┐
d13(E)	4	#4	2'-0"	┌┐
h10(E)	6	#6	34'-11"	————
h11(E)	6	#6	5'-7"	————
h12(E)	6	#6	20'-11"	————
h13(E)	6	#6	35'-0"	————
u10(E)	14	#5	2'-5"	┌┐
u11(E)	83	#5	1'-11"	┌┐
Concrete Removal			Cu. Yd.	13.8
Concrete Structure			Cu. Yd.	0.8
Concrete Superstructure			Cu. Yd.	14.0
Protective Coat			Sq. Yd.	37
Reinforcement Bars, Epoxy Coated			Pound	1,970



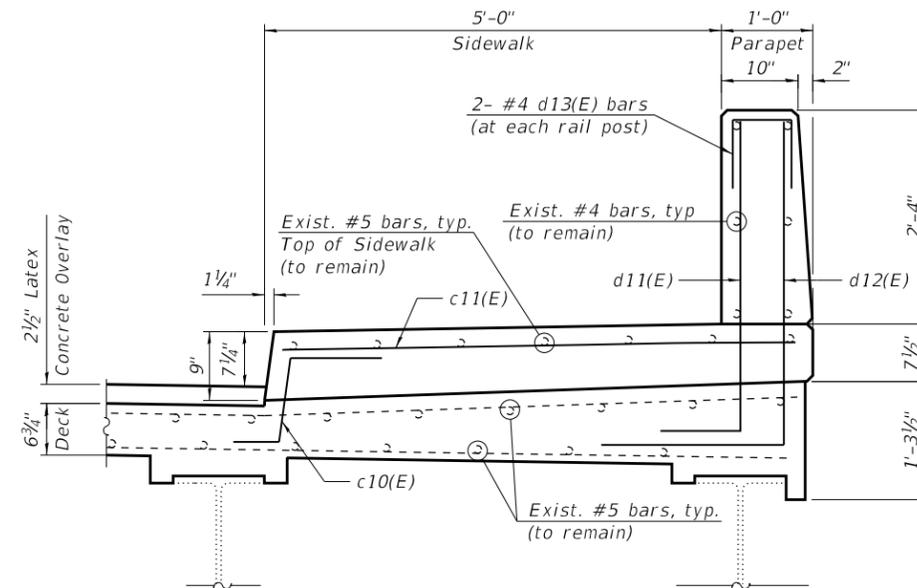
SECTION E-E



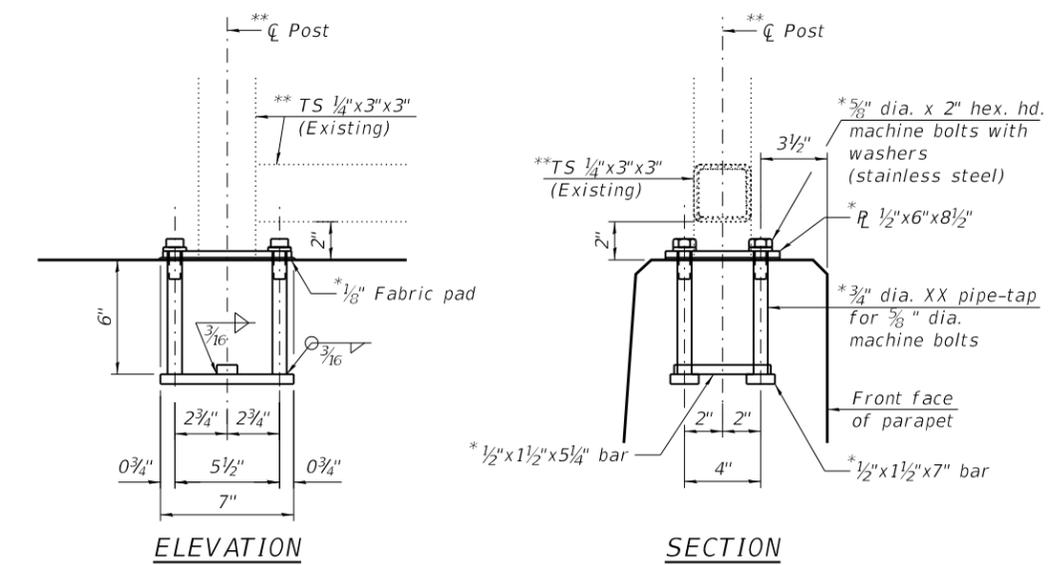
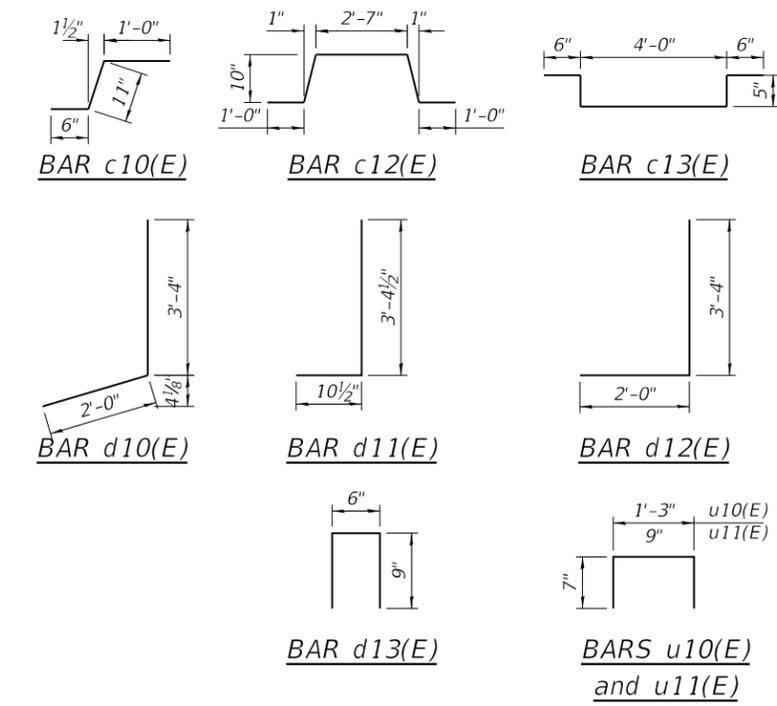
SECTION EE-EE



SECTION F-F
(South Parapet)



SECTION FF-FF
(South Parapet)



RAIL POST REMOVAL AND REPLACEMENT DETAILS ON PARAPETS

* Cost included with Concrete Superstructure.

** Remove and store rails in concrete removal area prior to concrete removal. Remove and store rail post in concrete removal area. Reattach rail post as shown. The Contractor must verify locations and sizes of existing holes prior to ordering 3/4" dia. XX pipes, bars, cap screws and standard flat washers. Reinstall rails after concrete superstructure is completed. Cost included with Concrete Superstructure.

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications. Cost included with Concrete Superstructure.

NOTES:

- For Preformed joint strip seal details, see Sheets S-14 thru S-16.
- For Bar Splicer details, see Sheet S-25.
- 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 approved bar splicer or anchorage system.

LEGEND



MODEL: Default
FILE NAME: P:\1710-745 PTB185-002 AES\WO#6 IL 68 over 1-94\CAD_Sheets\0160939-60M72-5014-EastAboutJointRemDetail2.dgn
12/5/2018 12:15:17 PM



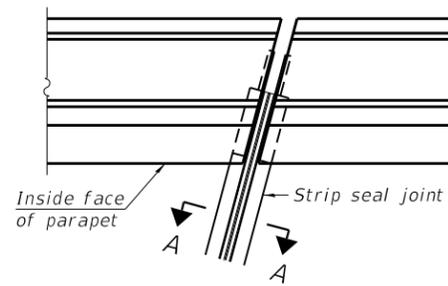
USER NAME =	DESIGNED - SK	REVISED -
PLOT SCALE =	CHECKED - MI, RTB	REVISED -
PLOT DATE =	DRAWN - SK, KJD	REVISED -
	DATE - 12/05/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**E. ABUTMENT JOINT REMOVAL AND REPLACEMENT DETAILS II
S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY**

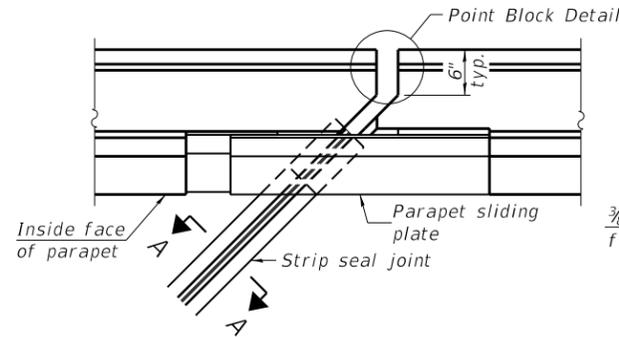
SHEET S-13 OF S-25 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	50
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

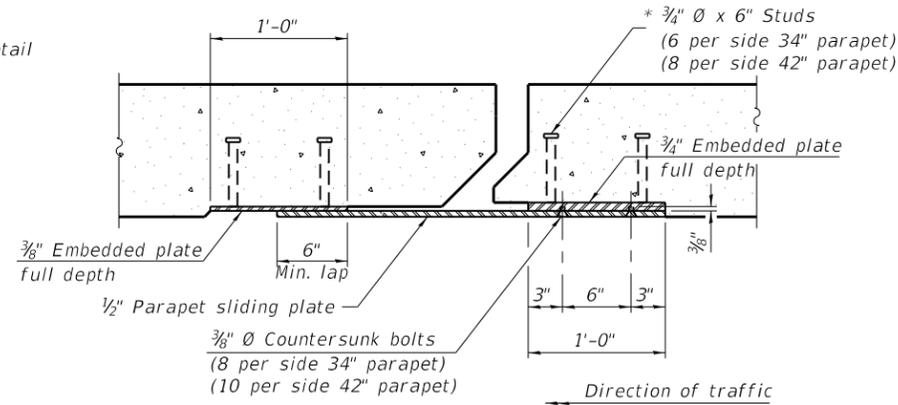


FOR SKEWS $\leq 30^\circ$

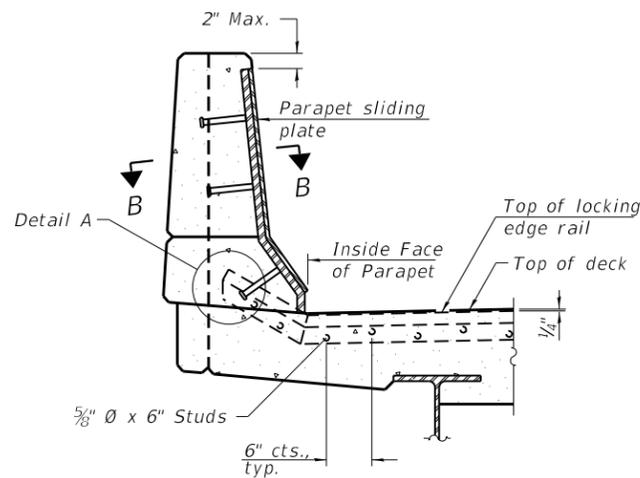
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

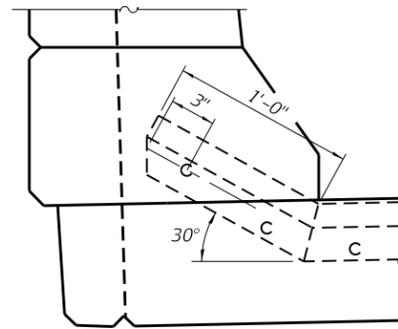


SECTION B-B

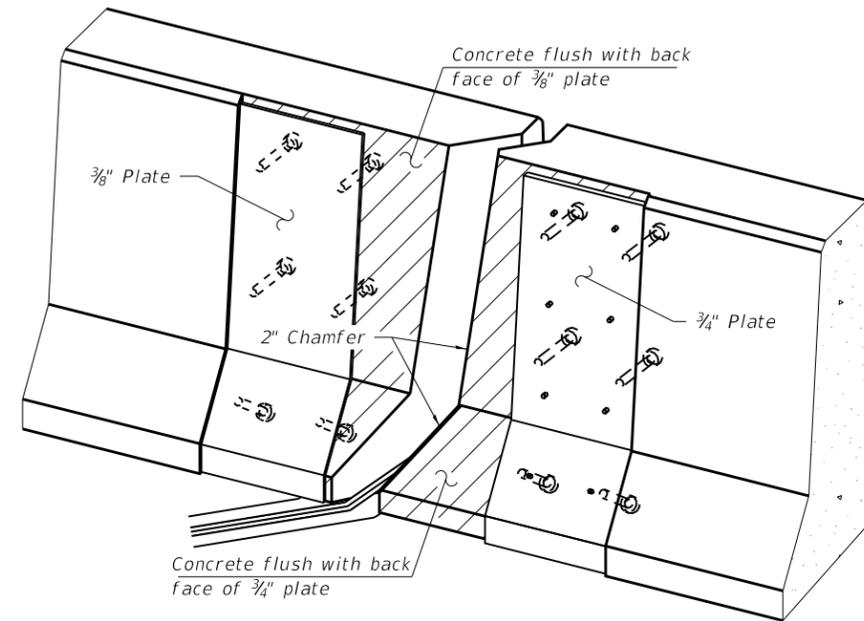


ELEVATION AT PARAPET

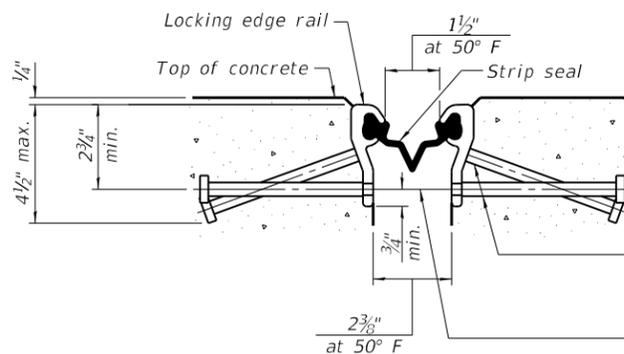
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)



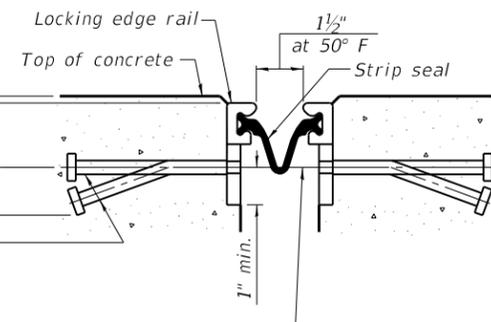
SHOWING ROLLED RAIL JOINT

* $5/8$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

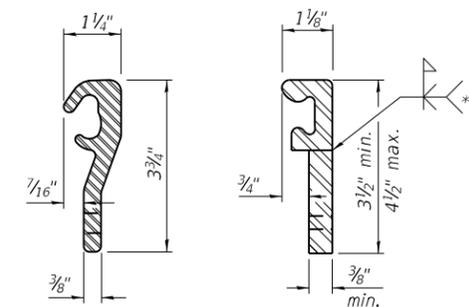
$3/8$ " ϕ threaded rods in $7/16$ " ϕ holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

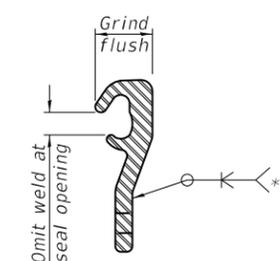


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	188

EJ-SS-S

8-11-17

(Sheet 1 of 3)

HBM
ENGINEERING GROUP, LLC

USER NAME =	DESIGNED - KJD	REVISED -
PLOT SCALE =	CHECKED - MI, RTB	REVISED -
PLOT DATE =	DRAWN - KJD	REVISED -
	DATE - 12/05/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

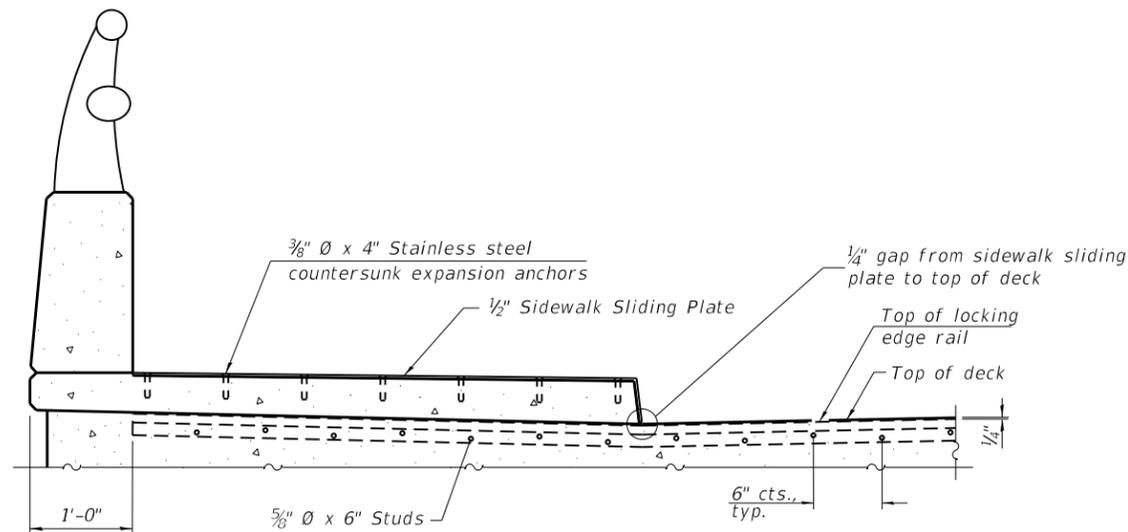
PREFORMED JOINT STRIP SEAL - SIDEWALK (SHEET 1 OF 3)
S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY

SHEET S-14 OF S-25 SHEETS

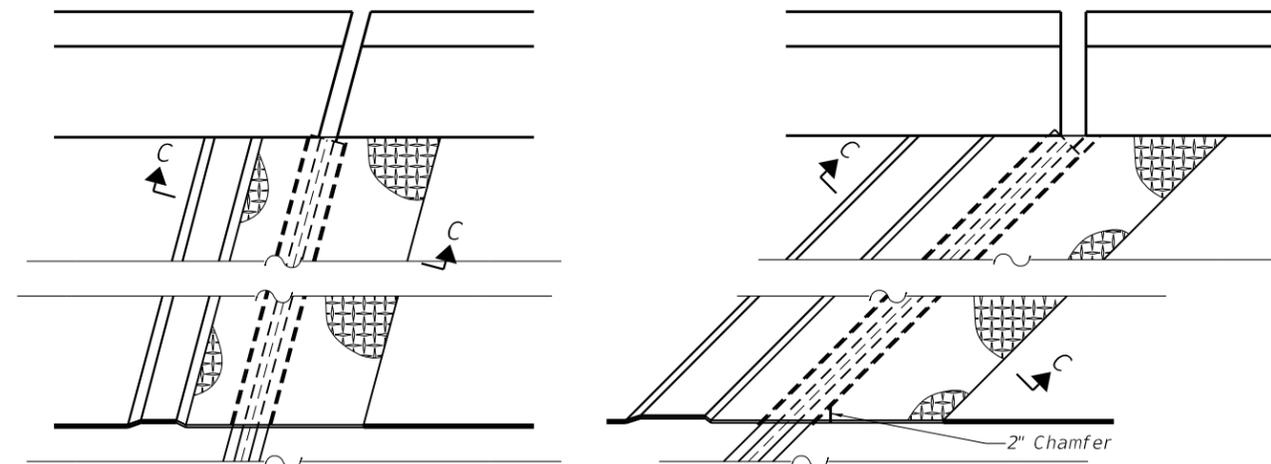
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	51
CONTRACT NO. 60M72				

ILLINOIS FED. AID PROJECT

MODEL: Default
FILE NAME: P:\1710-745 PTB\185-002_AES\WO#6 IL 68 over 1-94\CAD_Sheets\0160939-60M72-5015-Joint-Strip_Seal_1.dgn
12/5/2018 12:15:19 PM



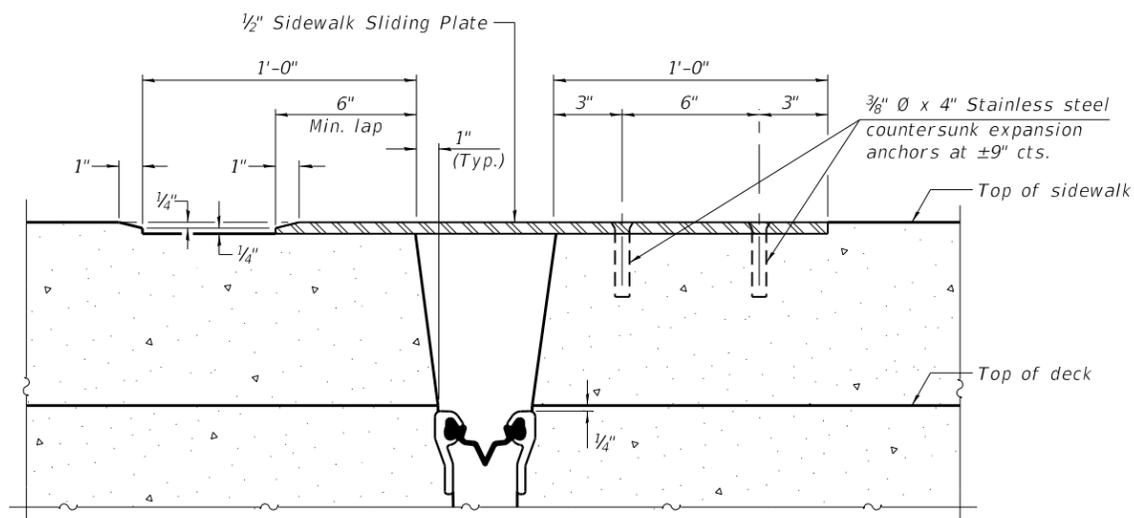
ELEVATION AT RAISED SIDEWALK



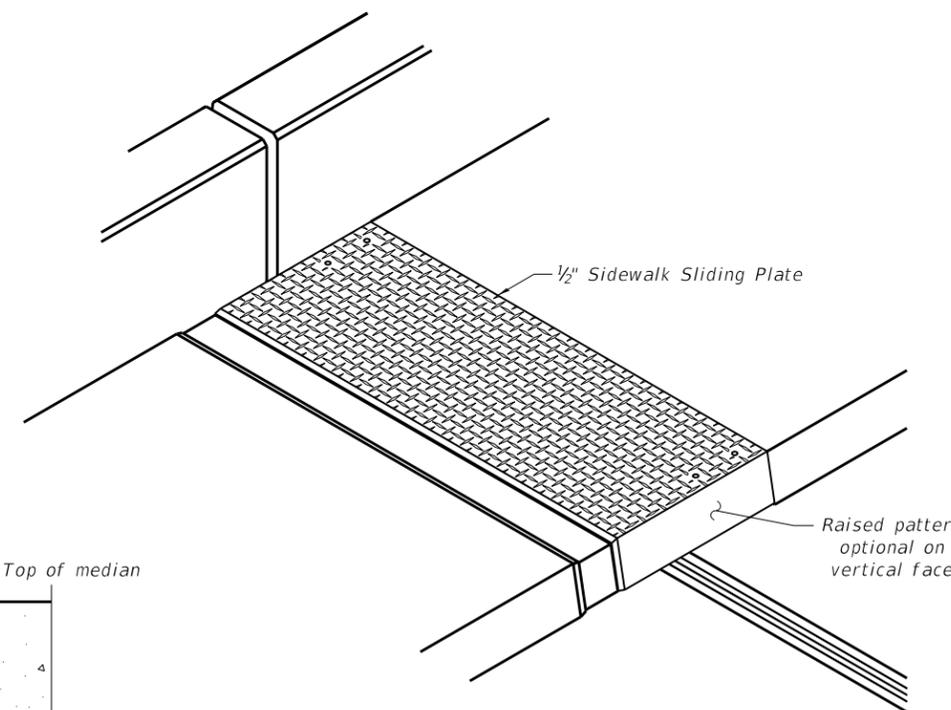
(FOR SKEWS $\leq 30^\circ$)

(FOR SKEWS $> 30^\circ$)

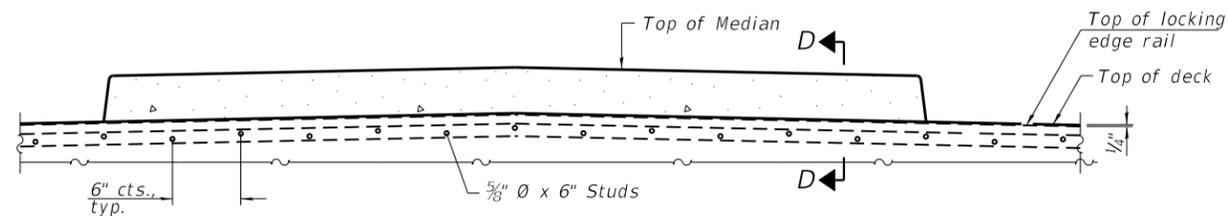
PLAN AT RAISED SIDEWALK



SECTION C-C

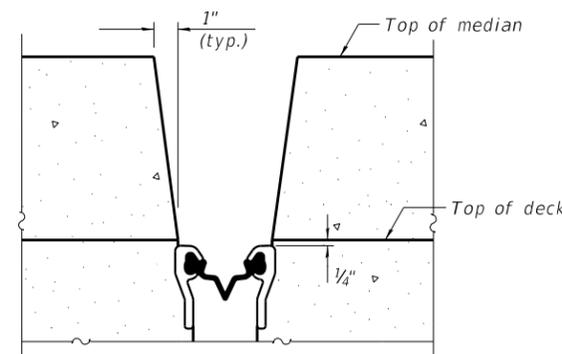


TRIMETRIC VIEW



ELEVATION AT MEDIAN

For skews $> 30^\circ$, chamfer acute corners 2" similar to sidewalk.



SECTION D-D
(at Rt. L's)

EJ-SS-S

8-11-17

(Sheet 2 of 3)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL - SIDEWALK (SHEET 2 OF 3)
S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY

USER NAME =	DESIGNED - KJD	REVISED -
PLOT SCALE =	CHECKED - MI, RTB	REVISED -
PLOT DATE =	DRAWN - KJD	REVISED -
	DATE - 12/05/2018	REVISED -

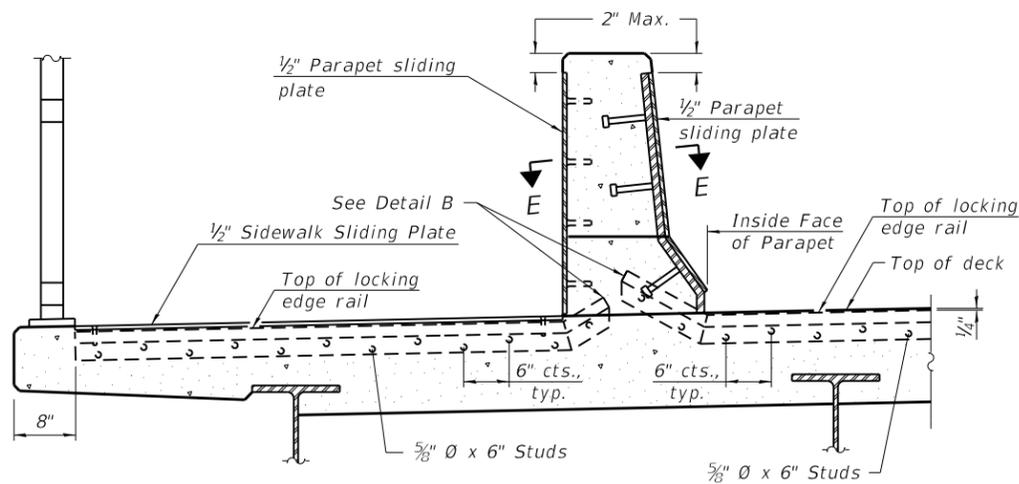
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	52
CONTRACT NO. 60M72				

SHEET S-15 OF S-25 SHEETS

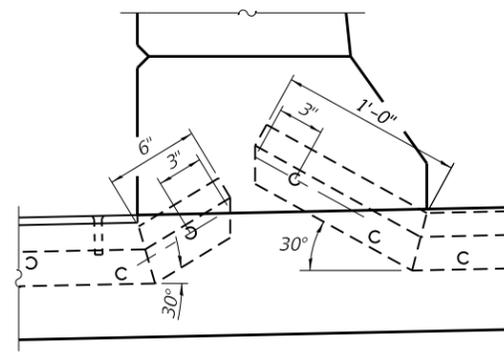
ILLINOIS FED. AID PROJECT

MODEL: Default
FILE NAME: P:\1710-745 PTB185-002 AES\WO#6 IL 68 over I-94\CAD_Sheets\0160939-60M72-5016-Joint_Strip_Seal 2.dgn
12/5/2018 12:15:20 PM

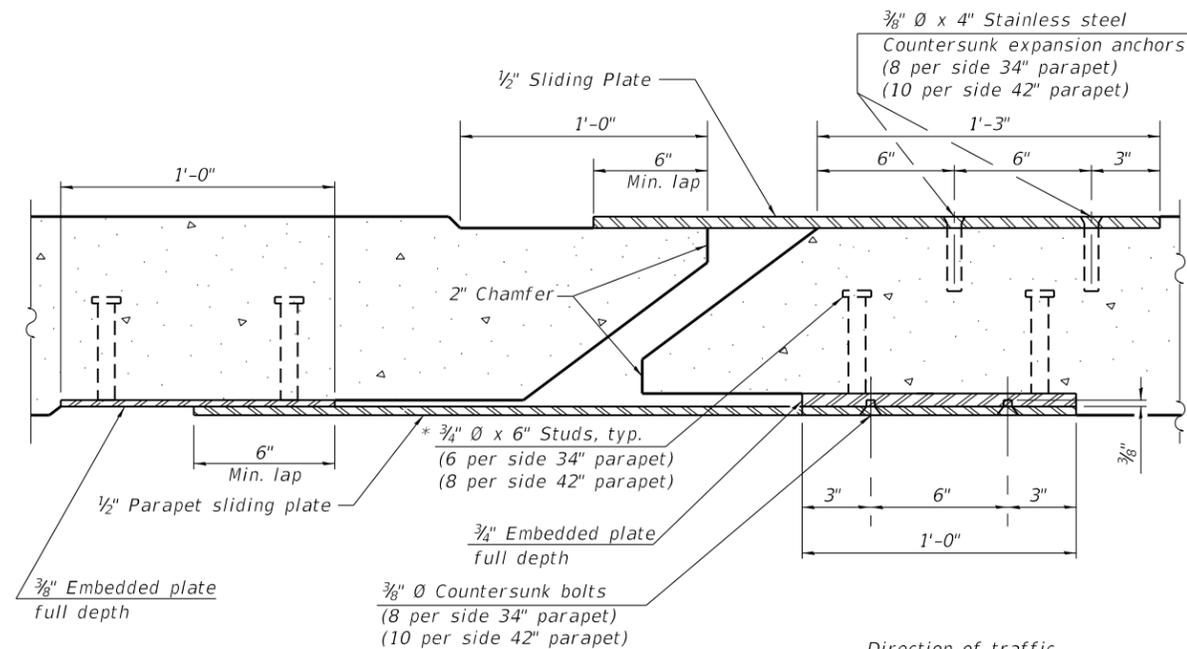
HBM
ENGINEERING GROUP, LLC



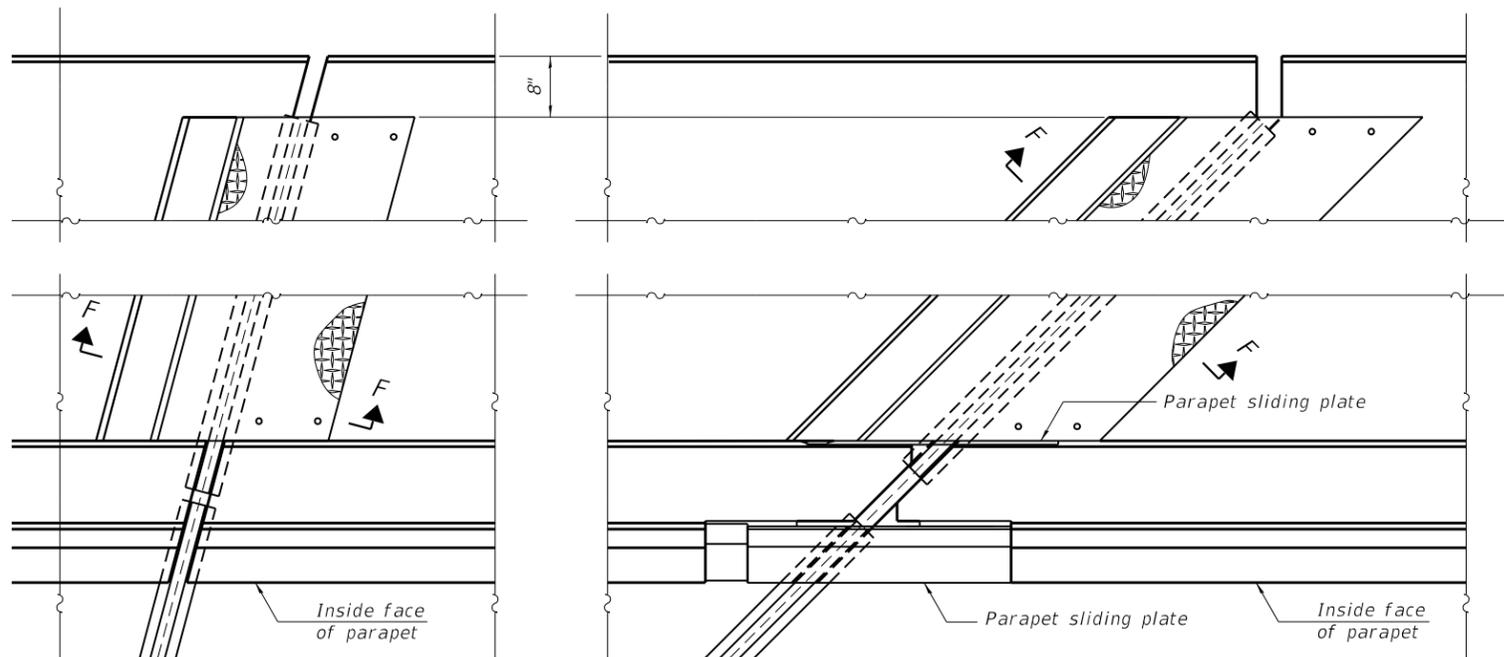
ELEVATION AT DECK LEVEL SIDEWALK
 (Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



DETAIL B



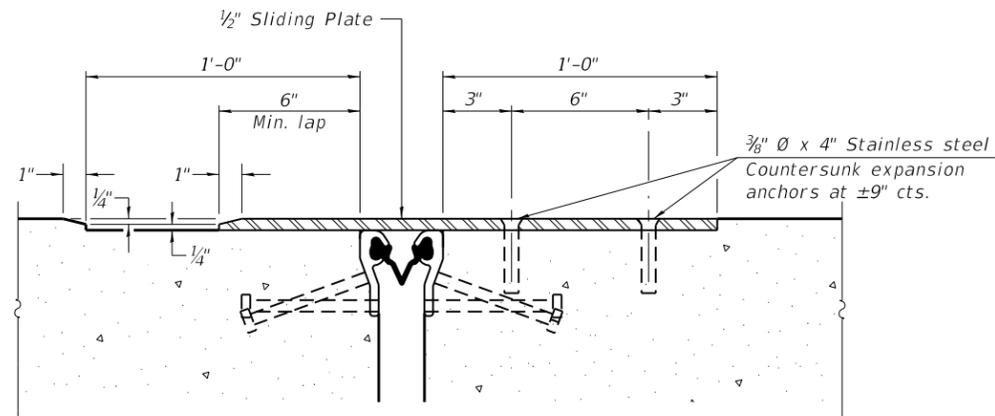
SECTION E-E



(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

PLAN AT DECK LEVEL SIDEWALK



SECTION F-F

EJ-SS-S 8-11-17

(Sheet 3 of 3)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL - SIDEWALK (SHEET 3 OF 3)
 S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY

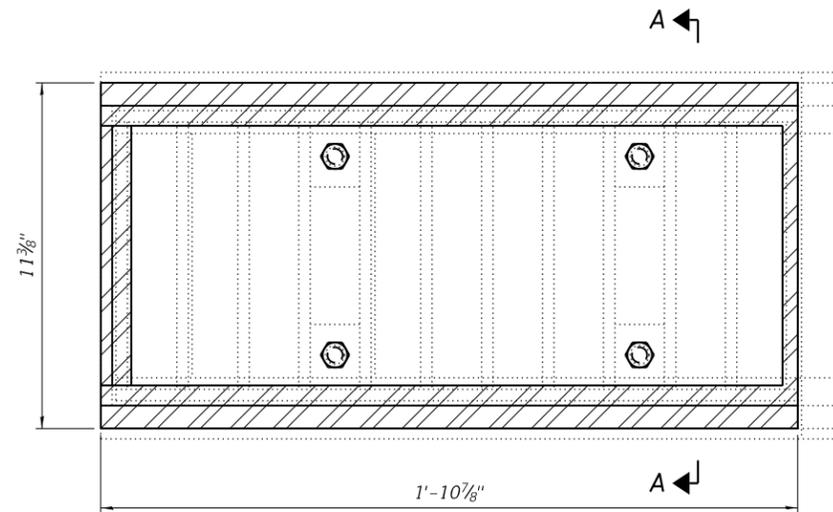


USER NAME =	DESIGNED - KJD	REVISED -
PLOT SCALE =	CHECKED - MI, RTB	REVISED -
PLOT DATE =	DRAWN - KJD	REVISED -
	DATE - 12/05/2018	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.14	COOK	70	53
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

SHEET S-16 OF S-25 SHEETS

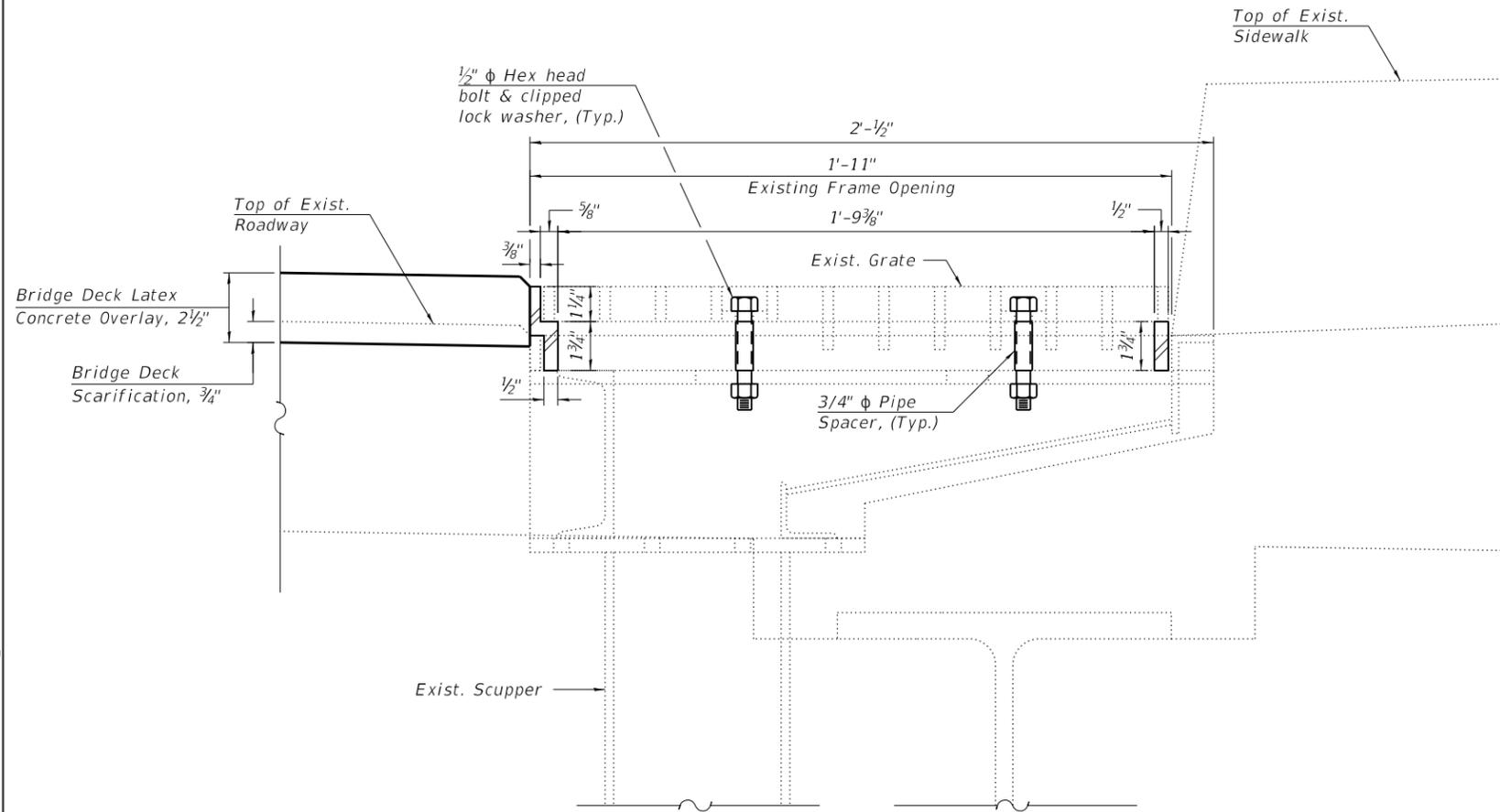
MODEL: Default
 FILE NAME: P:\1710-745 PTB185-002 AES\WO#6 IL 68 over I-94\CAD_Sheets\0160939-60M72-5017-Joint_Strip_Seal_3.dgn
 12/5/2018 12:15:22 PM



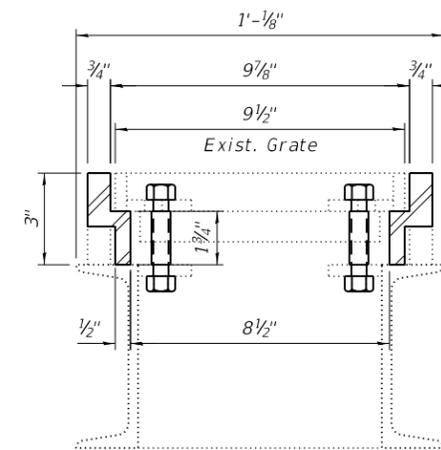
TYPICAL PLAN

NOTES:

1. The Contractor shall field verify Existing Dimensions and Details of the Existing Scuppers and make necessary adjustments prior to construction of New Adjusting Ring or ordering of material for Adjusting Drainage Scuppers.
2. All Cast Iron Parts shall be Grey Iron conforming to the requirements of AASHTO M 105, Class 35B.
3. Bolts, Anchor Studs, Washers and Nuts shall conform to the requirements of ASTM A 307 and shall be Galvanized according to the requirements of AASHTO M 232.
4. Cast Iron Parts shall be unfinished.
5. Adjusting Ring shall be from Neenah and approved equal. Structural Steel weldments or equal sections and of the same configuration may be submitted for Cast Iron. Fillet or full Penetration Welds may be used for weldments. Details shall be submitted to the Engineer for approval.
6. Provide a 1/8" Fillet Weld around perimeter of new Adjusting Ring to secure to existing Scupper. Electrode shall be compatible with cast Iron.
7. Cost of all labor and materials necessary to clean all existing floor drains and scuppers, install adjusting scupper rings, remove and re-install grates is included in the cost for Drainage Scupper to be Adjusted.



TYPICAL SCUPPER DETAIL



SECTION A-A

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers to be Adjusted	Each	8

MODEL: Default
FILE NAME: P:\1710-745 PTB185-002_AES\WO#6 IL 68 over I-94\CAD_Sheets\0160939-60M72-5018-AdjScupper.dgn



USER NAME =	DESIGNED - KJD	REVISED -
	CHECKED - MI, RTB	REVISED -
PLOT SCALE =	DRAWN - KJD	REVISED -
PLOT DATE =	DATE - 12/05/2018	REVISED -

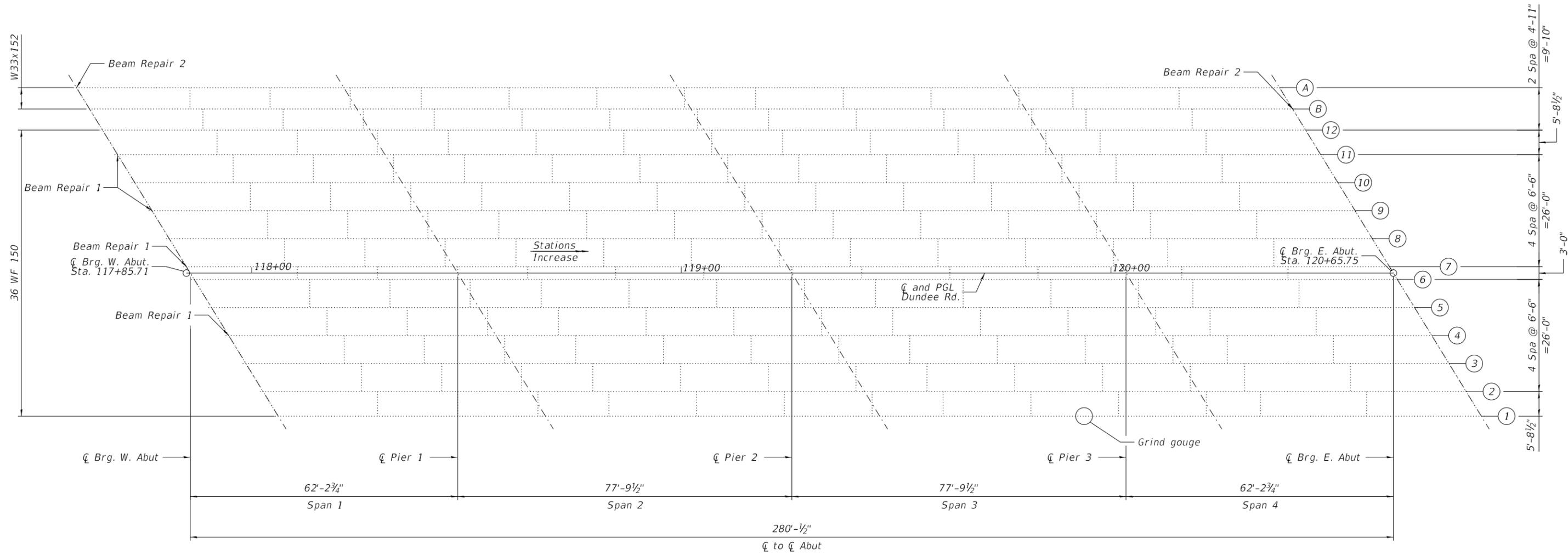
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADJUSTING DRAINAGE SCUPPER DETAILS
S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY

SHEET S-17 OF S-25 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	54
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: P:\1710-745 PTB185-002_AES\WO#6 IL 68 over I-94\CAD_Sheets\0160939-60M72-5019-FramingPlan.dgn

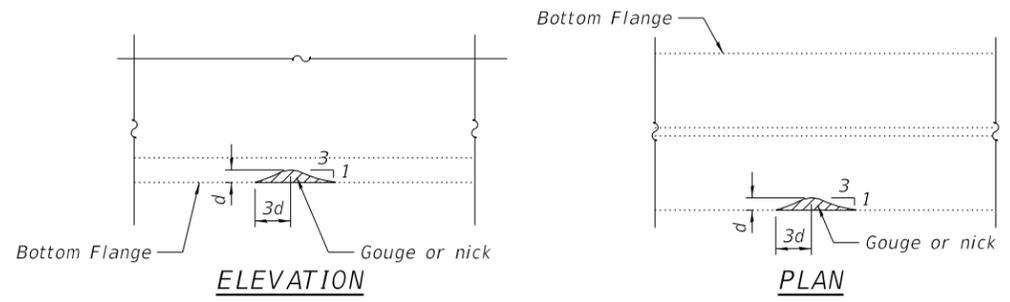


FRAMING PLAN



NOTES

1. For Girder Repair 1 and Girder Repair 2 sections and details, see Sheet 56.
2. Cost of grinding is included in the cost of Structural Steel Repair.



GRINDING DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Repair	POUND	385



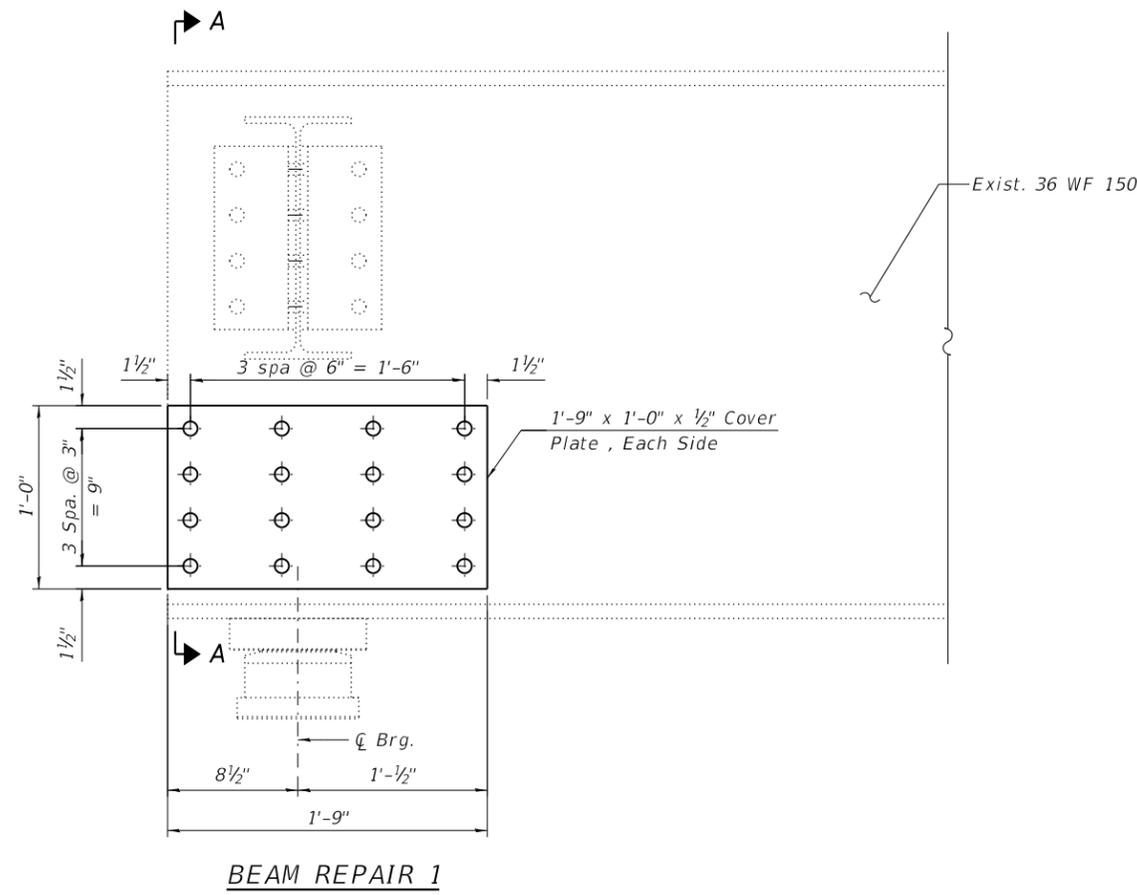
USER NAME =	DESIGNED - MA, KJD	REVISED -
	CHECKED - MI, RTB	REVISED -
PLOT SCALE =	DRAWN - MA, KJD	REVISED -
PLOT DATE =	DATE - 12/05/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

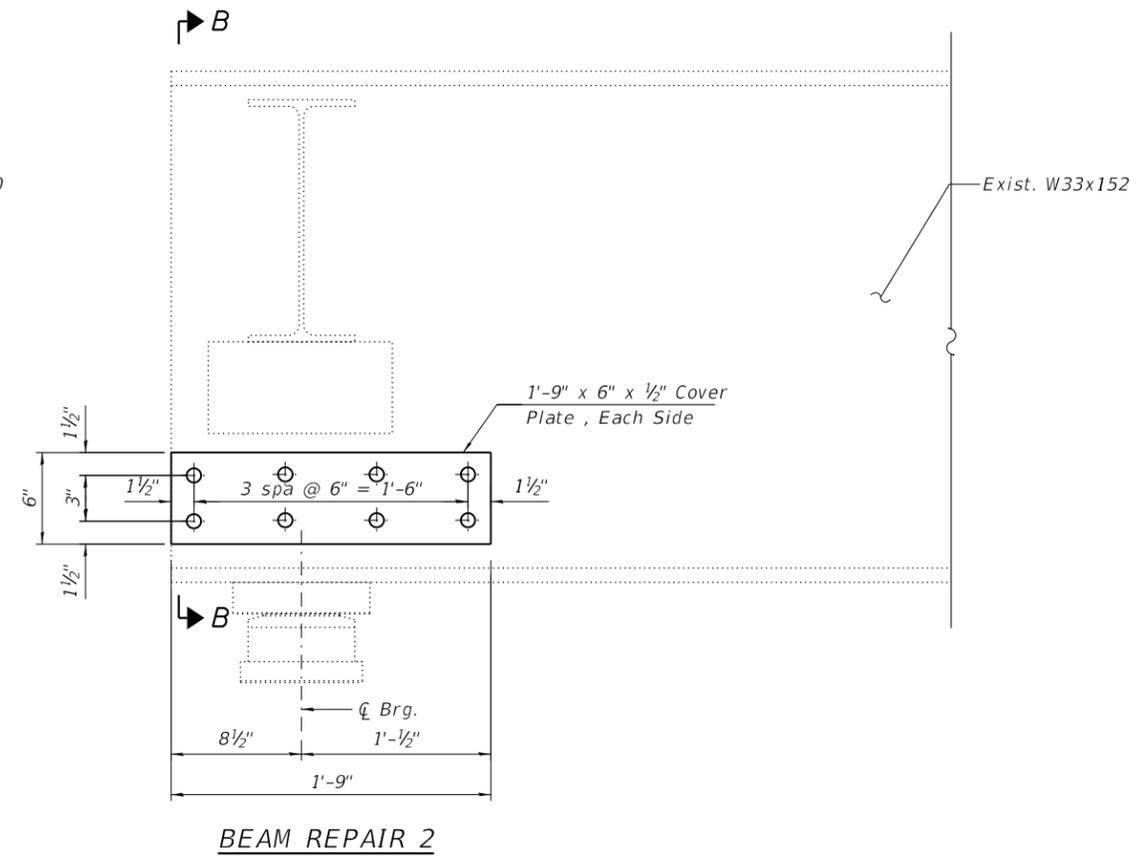
FRAMING PLAN
 S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY

SHEET S-18 OF S-25 SHEETS

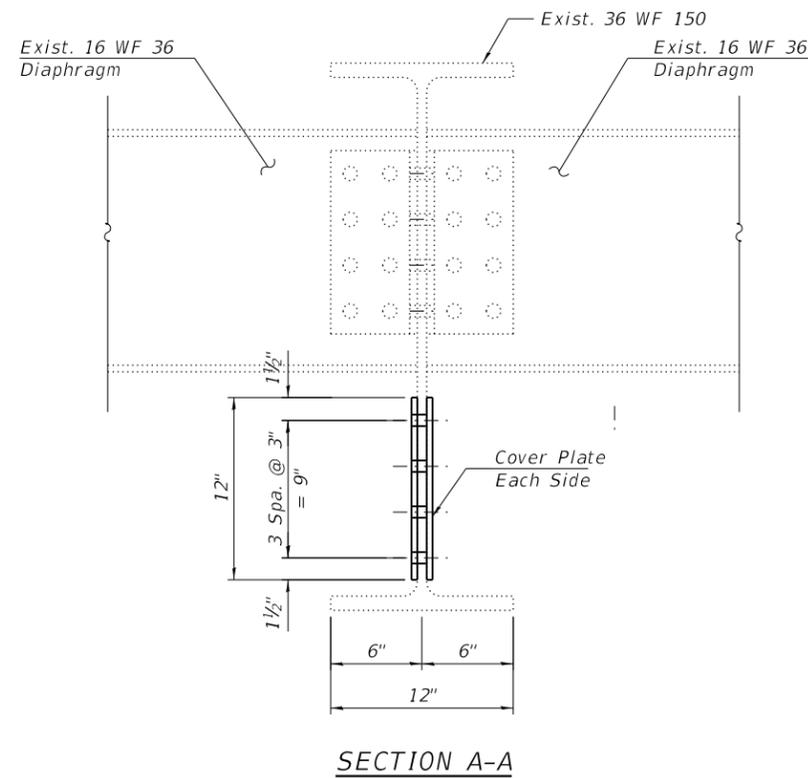
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	55
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				



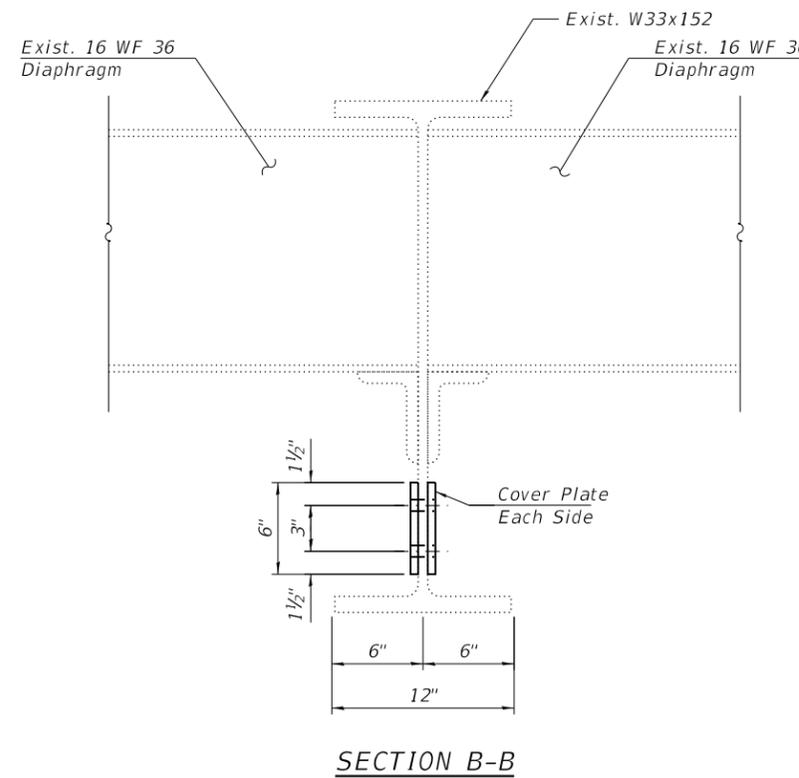
BEAM REPAIR 1



BEAM REPAIR 2



SECTION A-A



SECTION B-B

NOTES:

1. For locations Repairs, see framing plan Sheet S-18
2. All repair plates, fill plates, stiffener angles, connection plates and connection angles shall conform to AASHTO Classification M-270 Gr 50.
3. Hardened washers shall be required over all oversized holes.
4. Cost of field drilling is included with Structural Steel Repair.
5. Unless otherwise noted in the plans or specifications, field bolted connections shall use 3/4" high strength bolts with 13/16" holes.

MODEL: Default
FILE NAME: P:\1710-745 PTB185-002 AES\WO#6 IL 68 over I-94\CAD_Sheets\0160939-60M72-5020-SteelDetails.dgn



USER NAME =	DESIGNED - MA, KJD	REVISED -
	CHECKED - MI, RTB	REVISED -
PLOT SCALE =	DRAWN - MA, KJD	REVISED -
PLOT DATE =	DATE - 12/05/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL REPAIR DETAILS
S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY**

SHEET S-19 OF S-25 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	56
CONTRACT NO. 60M72				

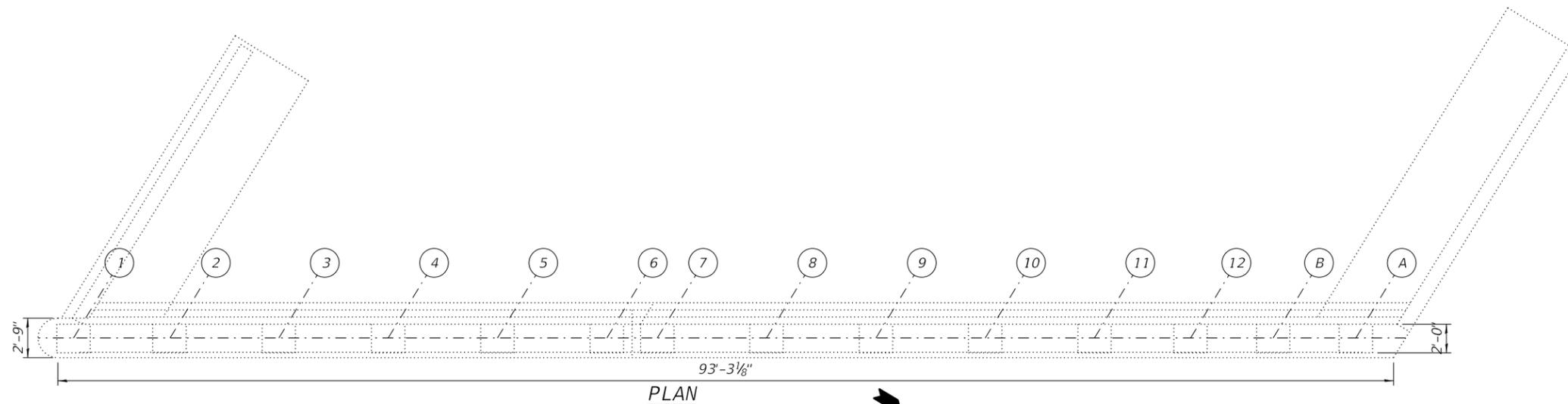
ILLINOIS FED. AID PROJECT

NOTES:

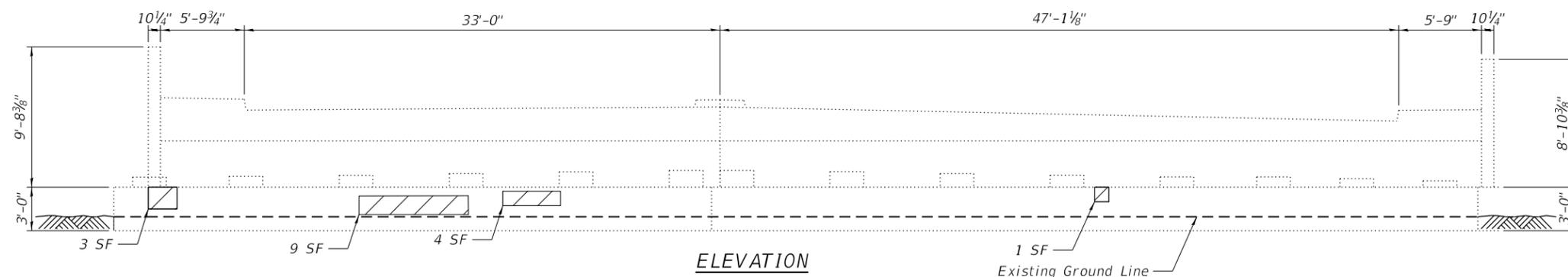
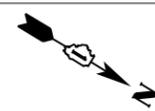
1. Quantities and limits shown are estimated for bidding purpose only. the actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq Ft	17

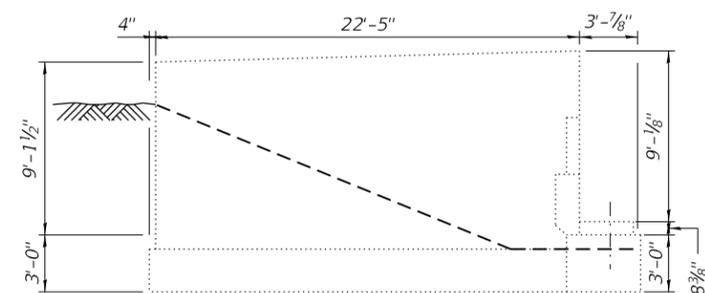


PLAN

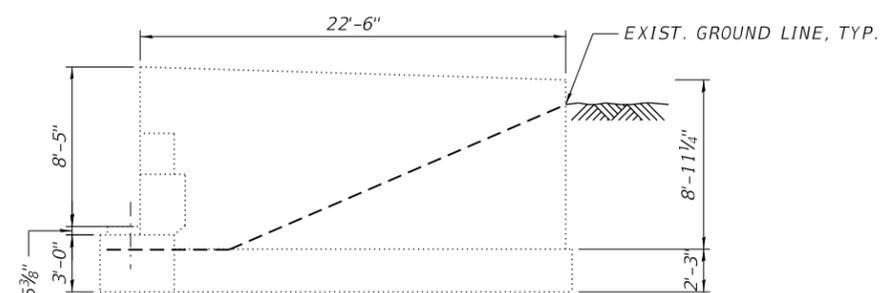


ELEVATION

Existing Ground Line



SOUTHWEST WINGWALL



NORTHWEST WINGWALL

LEGENDS:



Ground line



Structural Repair of Concrete
(Depth Equal to or Less than 5 inches)

SF - Square Foot

MODEL: Default
FILE NAME: P:\1710-745 PTB185-002 AES\WO#6 IL 68 over 1-94\CAD_Sheets\0160939-60M72-5021-WestAbut.dgn



USER NAME =	DESIGNED - EK, KJD	REVISED -
CHECKED - MI, RTB	REVISIONS	
PLOT SCALE =	DRAWN - KJD, EK	REVISED -
PLOT DATE =	DATE - 12/05/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEST ABUTMENT REPAIRS
S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY**

SHEET S-20 OF S-25 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	57
CONTRACT NO. 60M72				

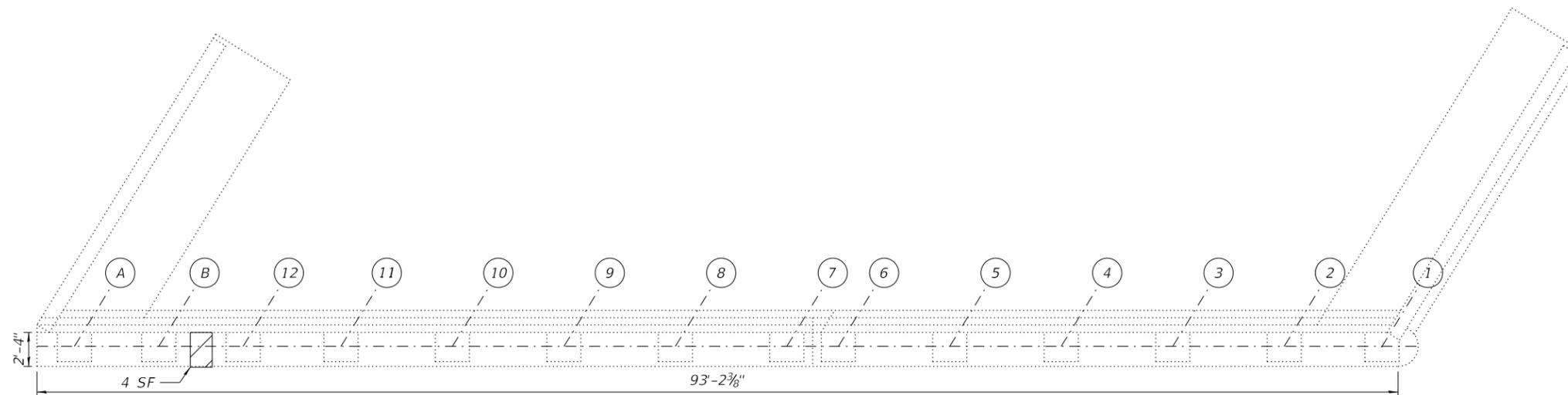
ILLINOIS FED. AID PROJECT

NOTES:

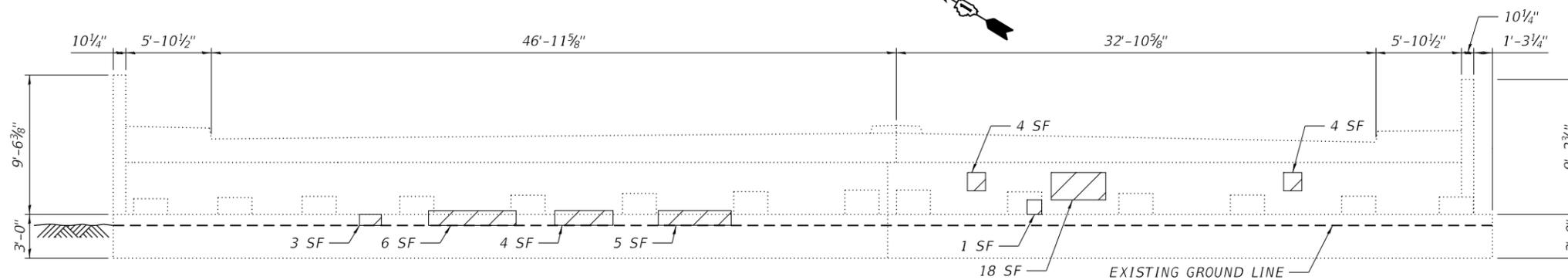
1. Quantities and limits shown are estimated for bidding purpose only. the actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.

BILL OF MATERIAL

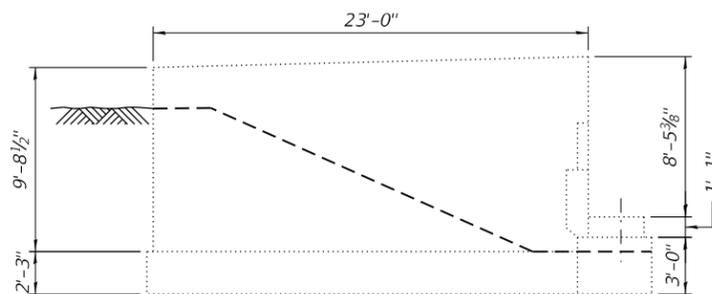
ITEM	UNIT	BRIDGE 397 QUANTITY
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq Ft	49



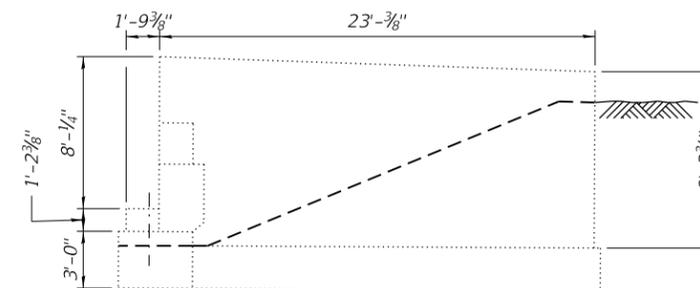
PLAN



EAST ABUTMENT



**NORTHEAST WINGWALL
(NORTH FACE)**



**SOUTHEAST WINGWALL
(SOUTH FACE)**

LEGENDS:



Structural Repair of Concrete
(Depth Equal to or Less than 5 inches)

SF

Square Foot

MODEL: Default
FILE NAME: P:\1710-745 PTB185-002 AES\WO#6 IL 68 over I-94\CAD_Sheets\0160939-60M72-5022-EastAbut.dgn
12/5/2018 12:15:29 PM



USER NAME =	DESIGNED - EK, KJD	REVISED -
	CHECKED - MI, RTB	REVISED -
PLOT SCALE =	DRAWN - KJD, EK	REVISED -
PLOT DATE =	DATE - 12/05/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST ABUTMENT REPAIRS
S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY**

SHEET S-21 OF S-25 SHEETS

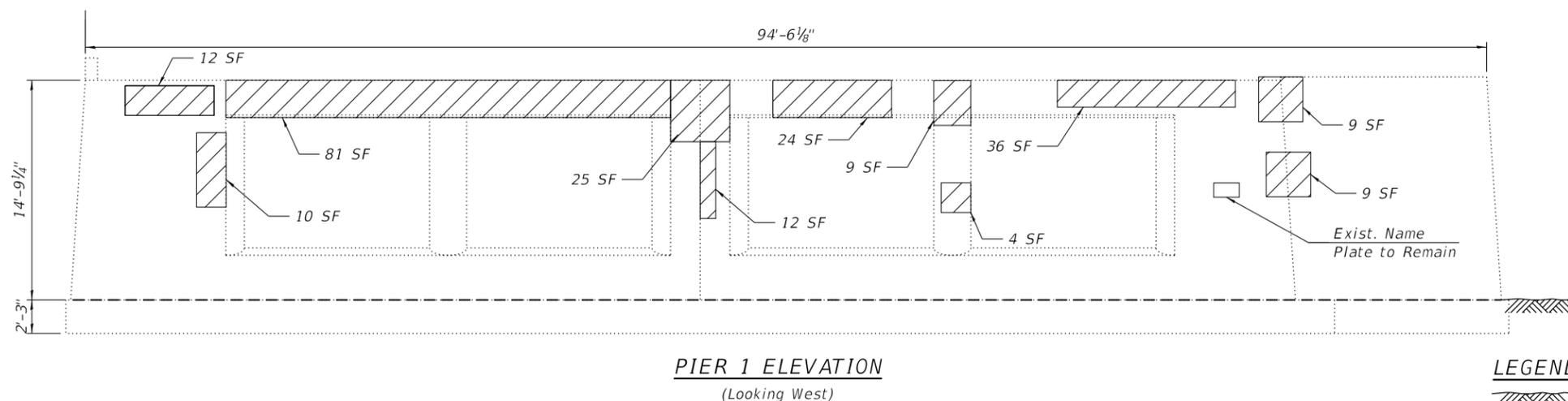
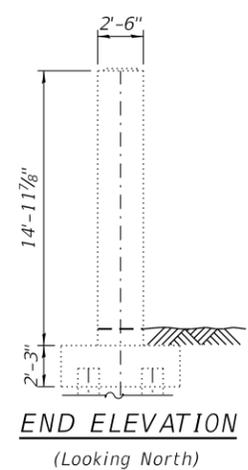
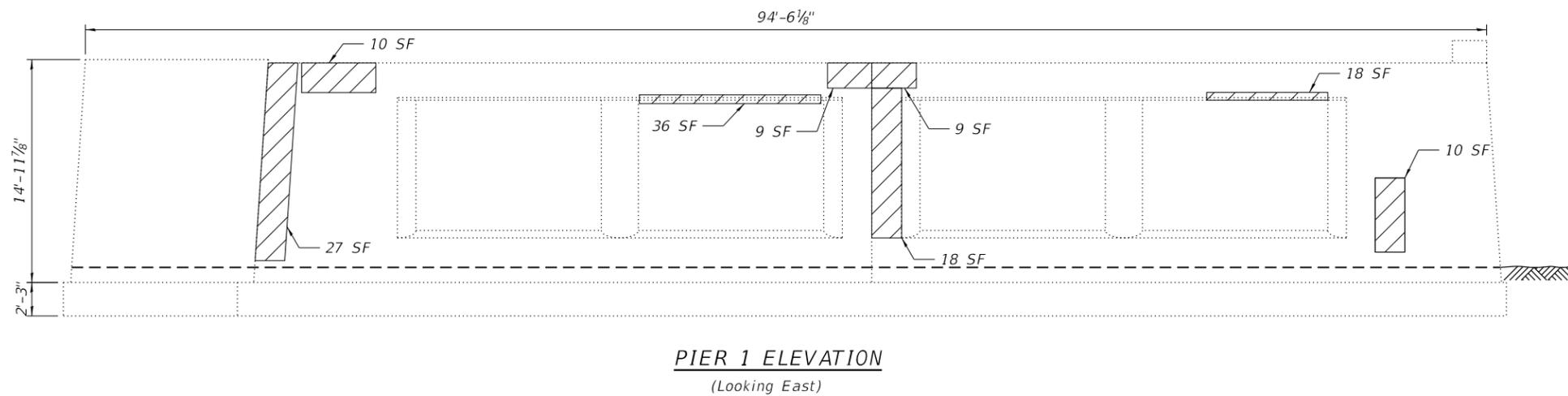
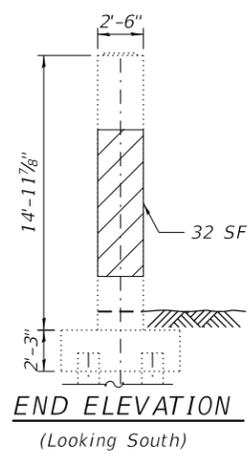
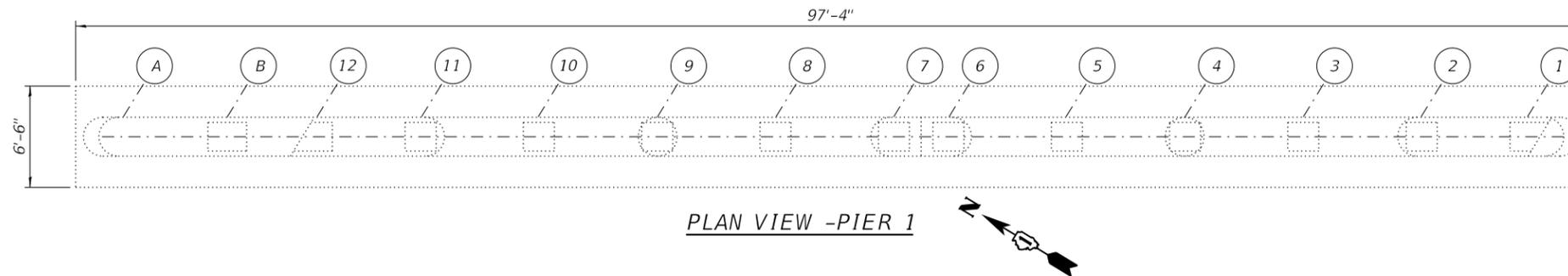
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	58
CONTRACT NO. 60M72				
		ILLINOIS	FED. AID PROJECT	

NOTES:

1. Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq Ft	400



LEGEND

- Ground line
- Structural Repair of Concrete
(Depth Equal to or Less than 5 inches)
- SF - Square Foot

MODEL: Default
FILE NAME: P:\1710-745 PTB\85-002 AES\WO#6 IL 68 over I-94\CAD_Sheets\0160939-60M72-5023-Pier1.dgn



USER NAME =	DESIGNED - MS, KJD	REVISED -
	CHECKED - MI, RTB	REVISED -
PLOT SCALE =	DRAWN - KJD, MS	REVISED -
PLOT DATE =	DATE - 12/05/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 1 REPAIRS
S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY**

SHEET S-22 OF S-25 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	59
CONTRACT NO. 60M72				

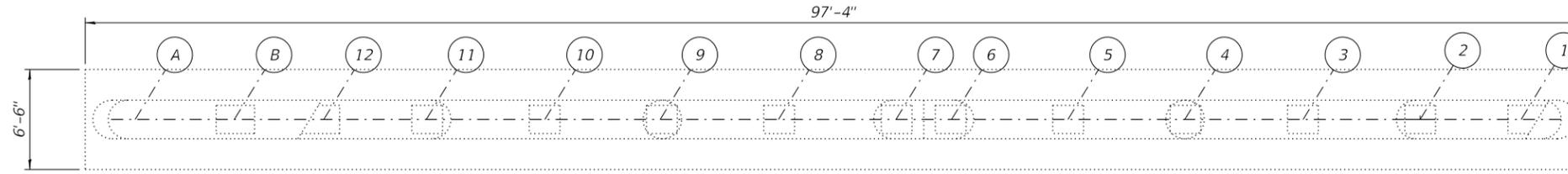
ILLINOIS FED. AID PROJECT

NOTES:

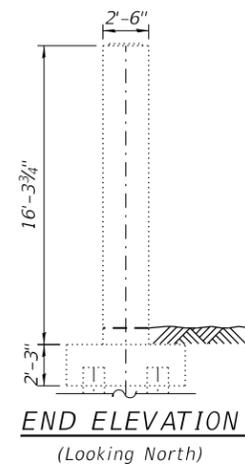
1. Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.

BILL OF MATERIAL

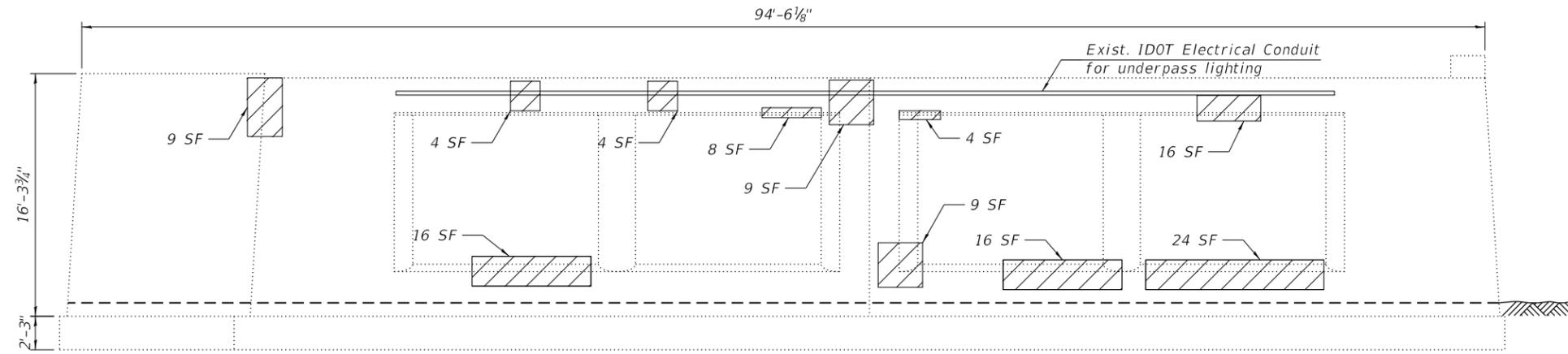
ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq Ft	257



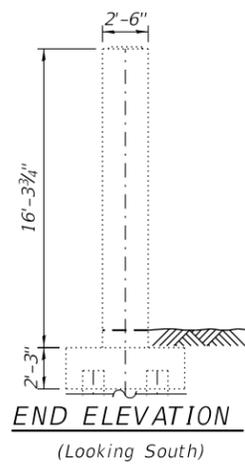
PLAN VIEW - PIER 2



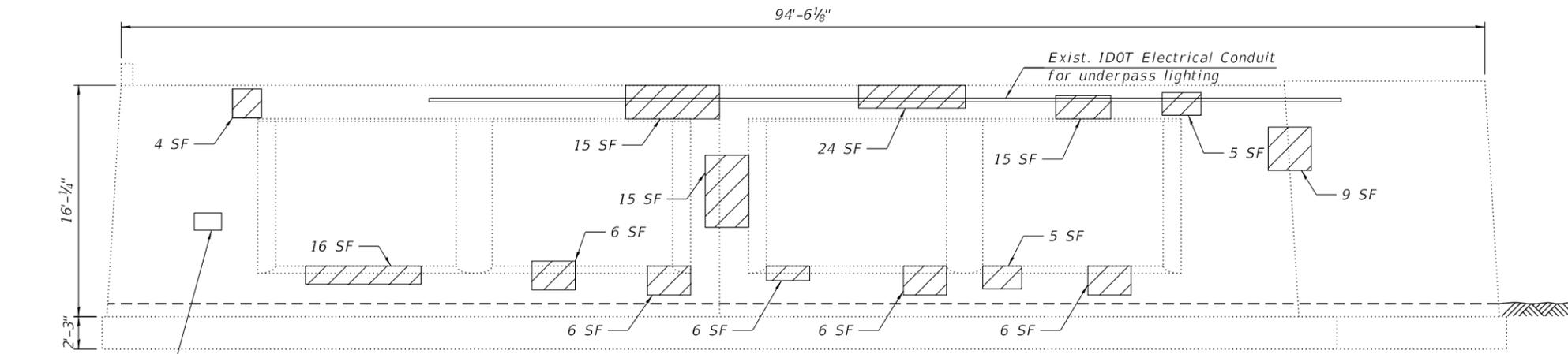
END ELEVATION
(Looking North)



PIER 2 ELEVATION
(Looking East)



END ELEVATION
(Looking South)



PIER 2 ELEVATION
(Looking West)

LEGENDS:

- Ground line
- Structural Repair of Concrete
(Depth Equal to or Less than 5 inches)
- SF - Square Foot

MODEL: Default
FILE NAME: P:\1710-745 PTB185-002 AES\WO#6 IL 68 over 194\CAD_Sheets\0160939-60M72-5024-Pier2.dgn



USER NAME =	DESIGNED - MS, KJD	REVISED -
PLOT SCALE =	CHECKED - MI, RTB	REVISED -
PLOT DATE =	DRAWN - KJD, MS	REVISED -
	DATE - 12/05/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 2 REPAIRS
S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY**

SHEET S-23 OF S-25 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.14	COOK	70	60
CONTRACT NO. 60M72				

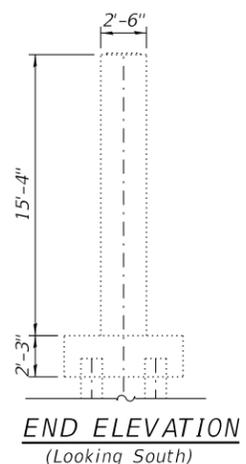
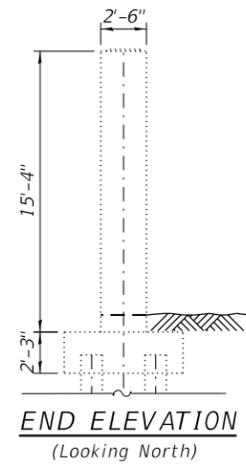
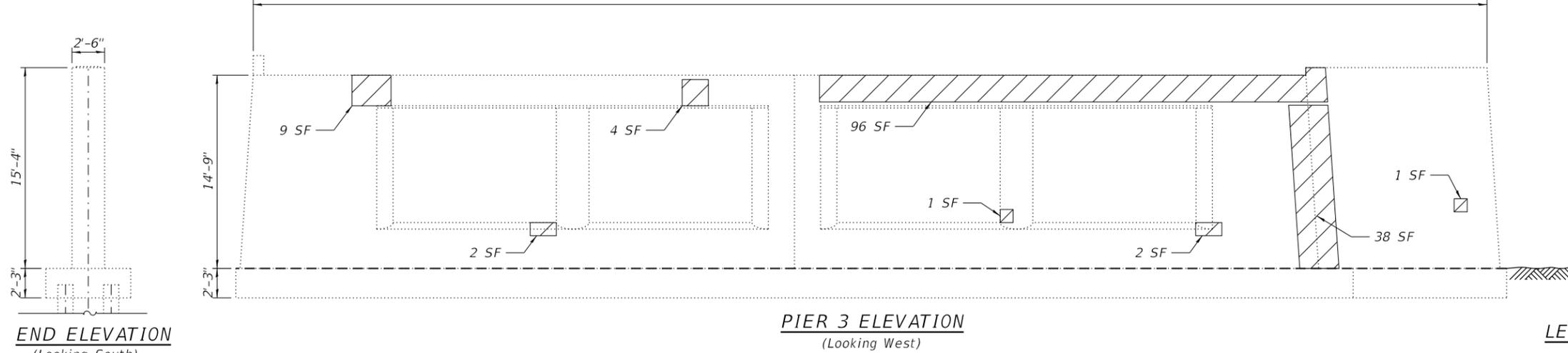
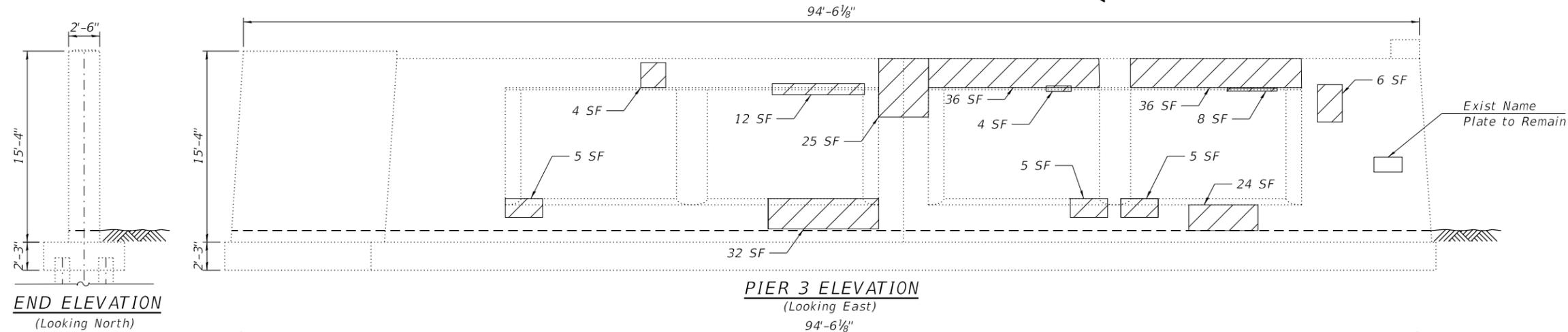
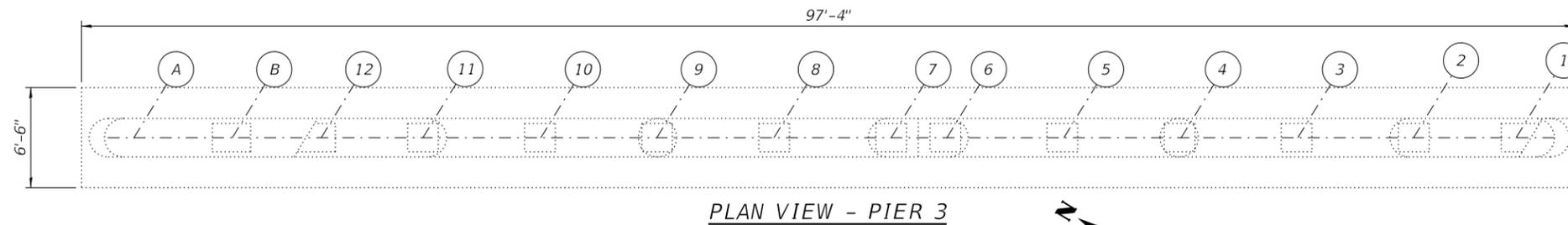
ILLINOIS FED. AID PROJECT

NOTES:

1. Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq Ft	355



LEGEND

- Ground line
- Structural Repair of Concrete
(Depth Equal to or Less than 5 inches)
- SF - Square Foot

MODEL: Default
FILE NAME: P:\1710-745_PTB185-002_AES\WO#6_IL_68_Over_I-94\CAD_Sheets\0160939-60M72-5025-Pier3.dgn



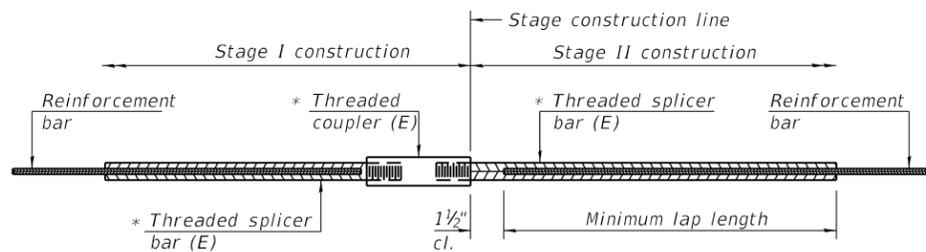
USER NAME =	DESIGNED - MS, KJD	REVISED -
	CHECKED - MI, RTB	REVISED -
PLOT SCALE =	DRAWN - KJD, MS	REVISED -
PLOT DATE =	DATE - 12/05/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 3 REPAIRS
S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY**

SHEET S-24 OF S-25 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.14	COOK	70	61
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

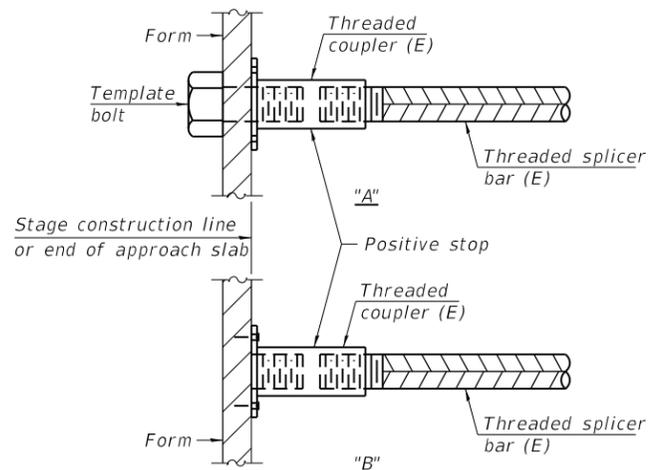


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

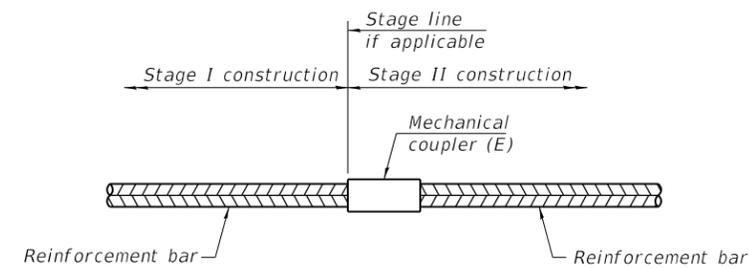
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	# 5	28	3'-6"
West Abutment	# 6	12	4'-0"
East Abutment	# 6	12	4'-0"



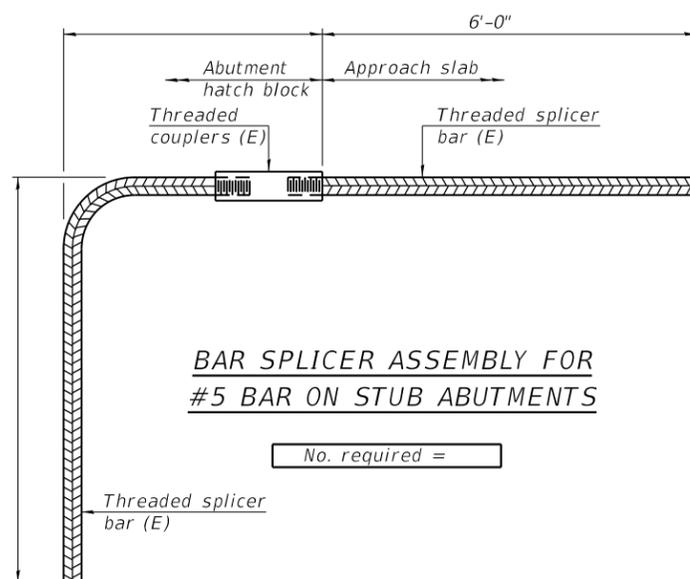
INSTALLATION AND SETTING METHODS

"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



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. 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.

MODEL: Default
 FILE NAME: P:\1710-745_PTB185-002_AES\WO#6_IL_68_over_1-94\CAD_Sheets\0160939-60M72-5026_Bar_Splacers.dgn

BSD-1 2-17-2017



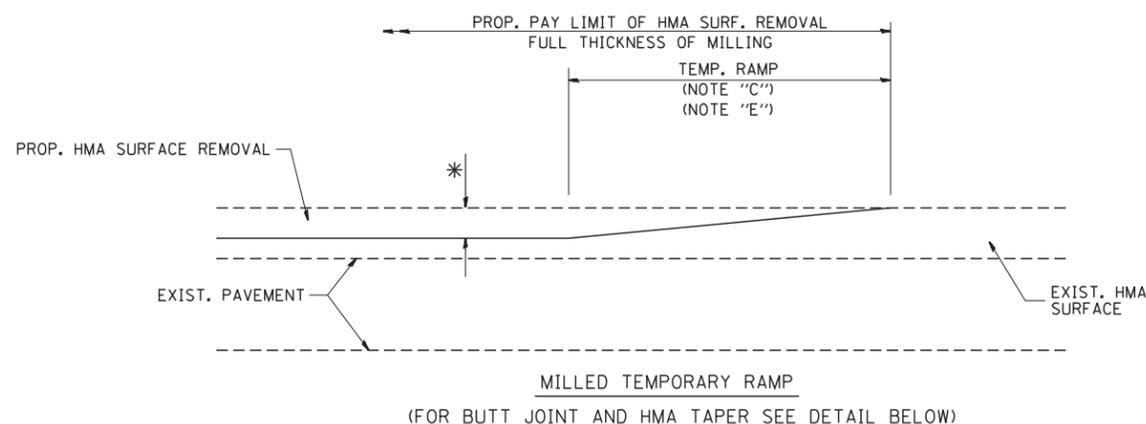
USER NAME =	DESIGNED - MS, KJD	REVISED -
PLOT SCALE =	CHECKED - MI, RTB	REVISED -
PLOT DATE =	DRAWN - KJD, MS	REVISED -
	DATE - 12/05/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

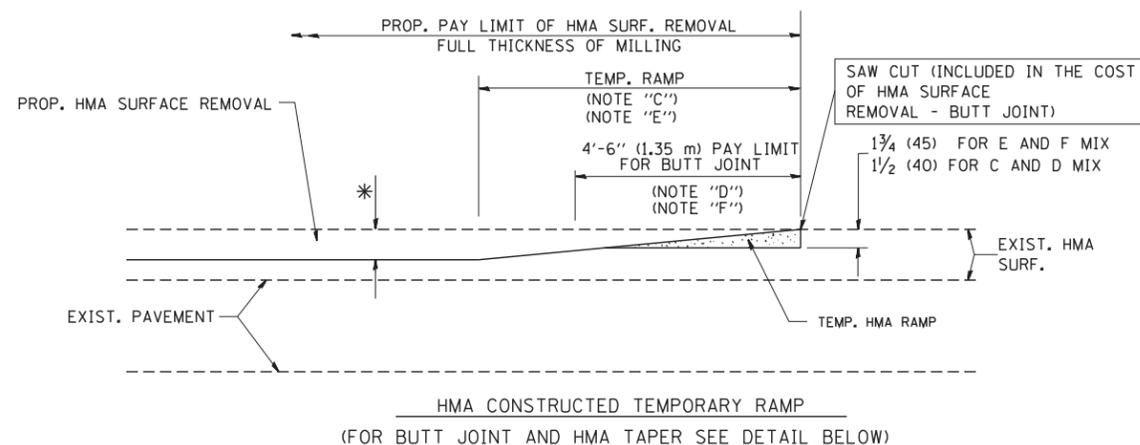
BAR SPLICERS
 S.N. 016-0939 DUNDEE RD OVER EDENS EXPRESSWAY

SHEET S-25 OF S-25 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314.1-I	COOK	70	62
CONTRACT NO. 60M72				
ILLINOIS FED. AID PROJECT				

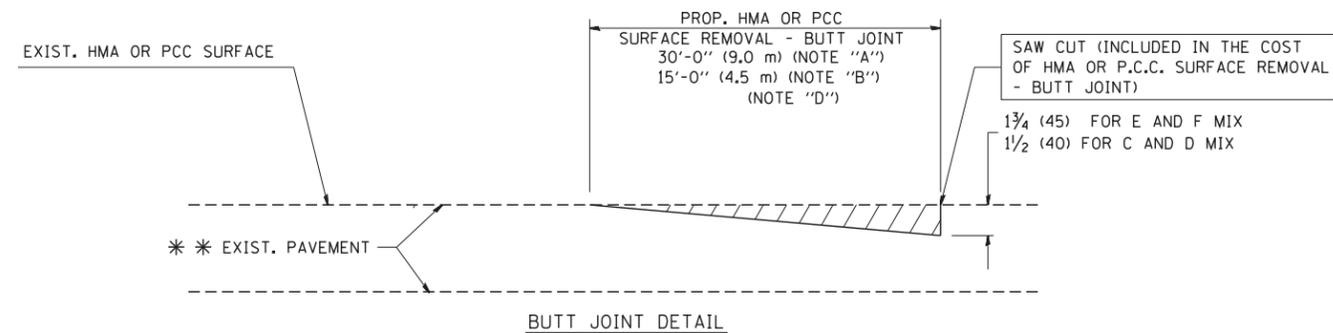


OPTION 1

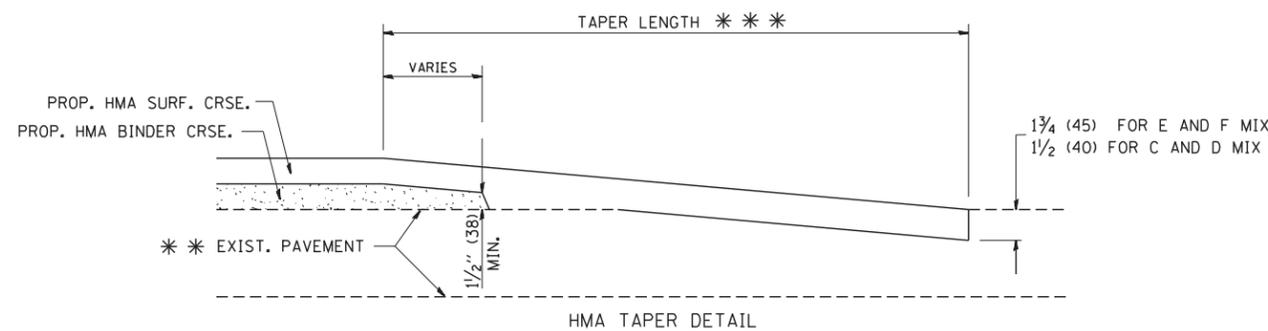


OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

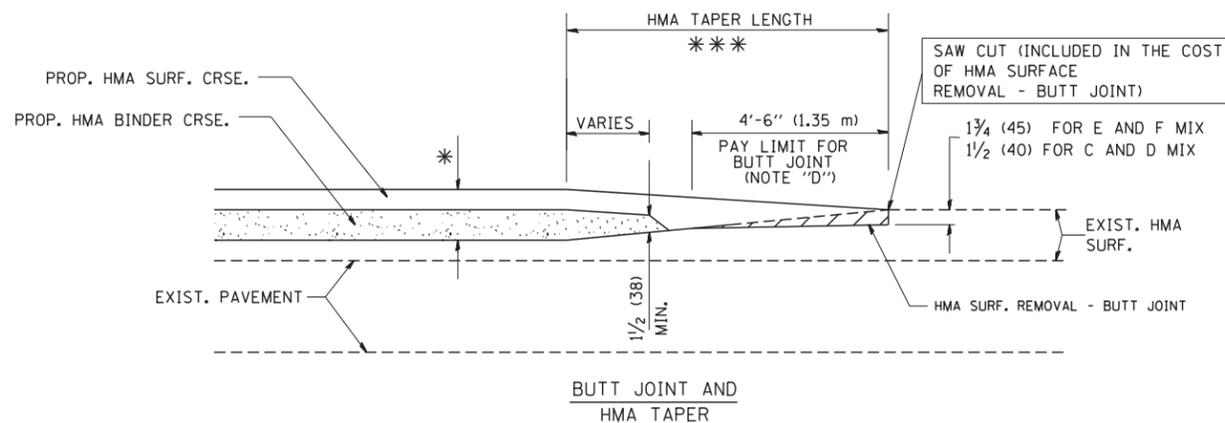
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - 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'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- * * * 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:

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".

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



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

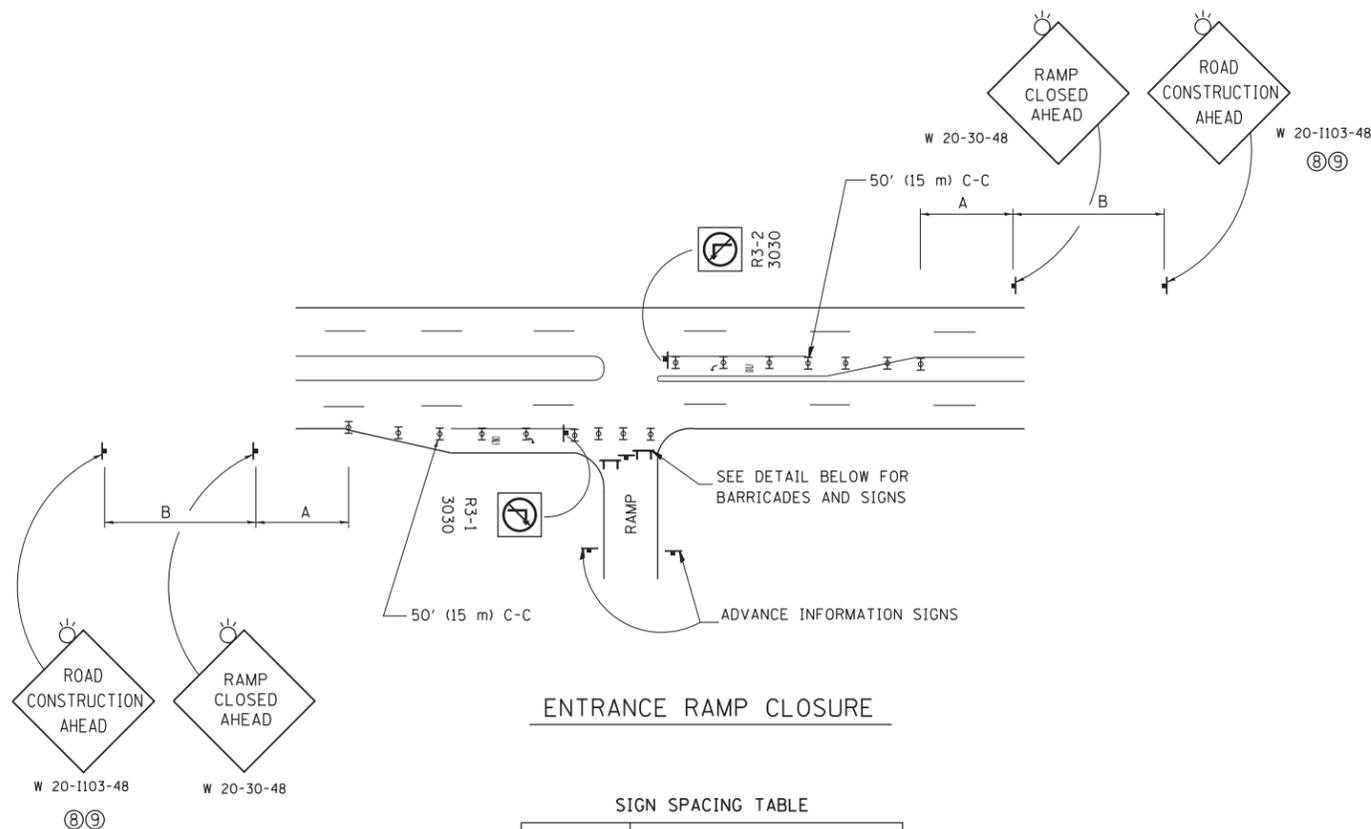
FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = gajlonobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	016-0939	COOK	70	63
BD400-05 BD32			CONTRACT NO. 60M72	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

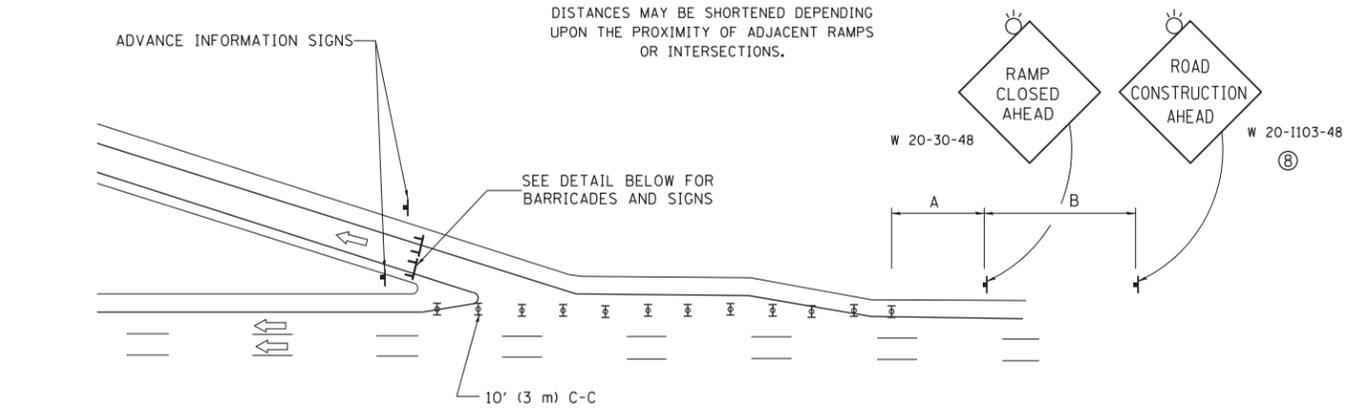


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

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

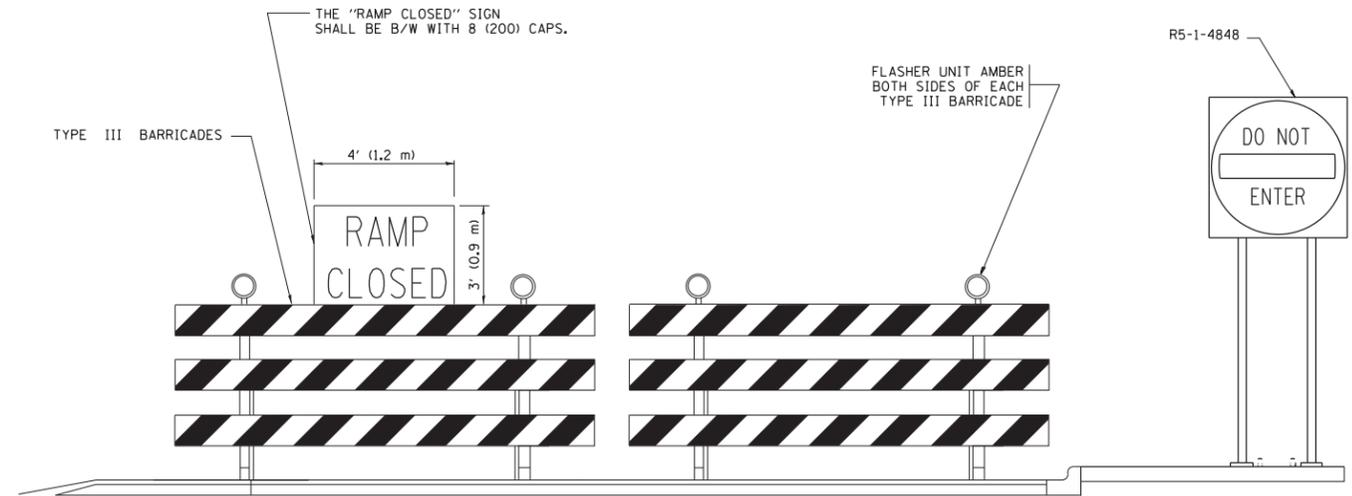
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

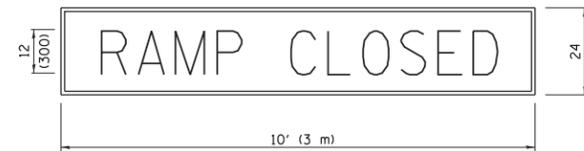
SYMBOLS

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



DETAIL FOR REQUIRED BARRICADES & SIGNS

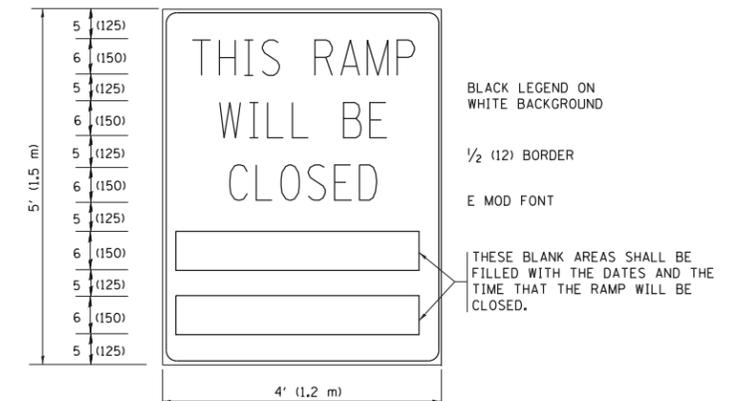
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND
1/2 (12) BORDER
E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

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

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

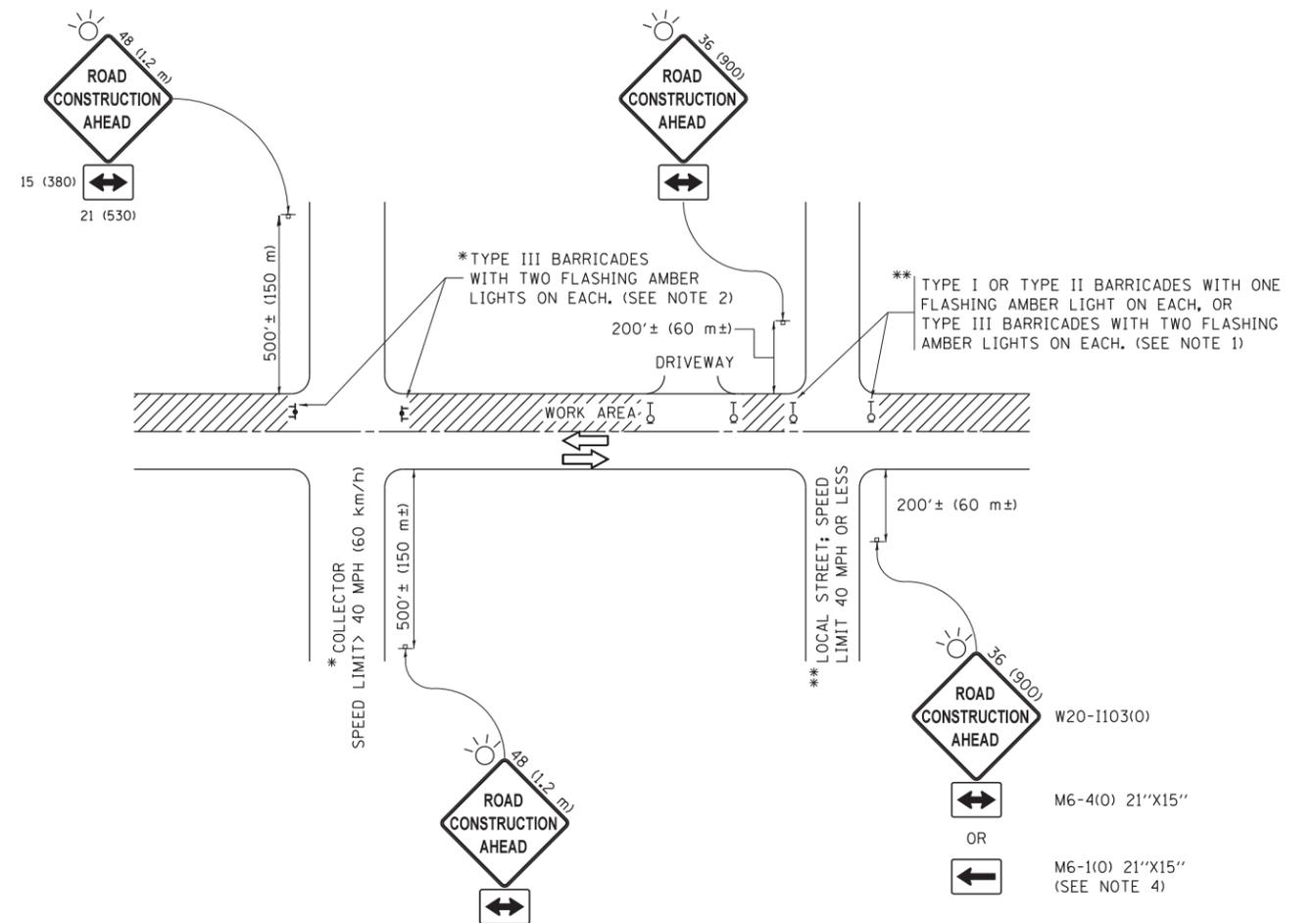
FILE NAME =	USER NAME = footemj	DESIGNED - D.W.S.	REVISED - S.P.B. 01-07
pw:\IL\084EBID\INTEG\illinois.gov\PIWID\Documents\IDOT Offices\District 1\Projects\Dist 1\084EBID\CADD\Drawings\CD\Drawings\to08.dgn		CHECKED -	REVISED - S.P.B. 12-09
Default	PLOT SCALE = 50.000' / in.	DATE - 02-83	REVISED - M.D. 06-13
	PLOT DATE = 11/27/2017		REVISED - M.D. 01-18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE AND EXIT RAMP
CLOSURE DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	016-0939	COOK	70	64
TC-08		CONTRACT NO. 60M72		
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.

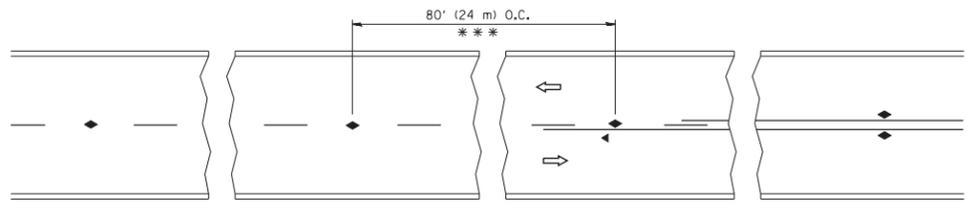
FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\084EBIDINTEG\CADD\to\CAD\sheets\tc10.dgn			REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

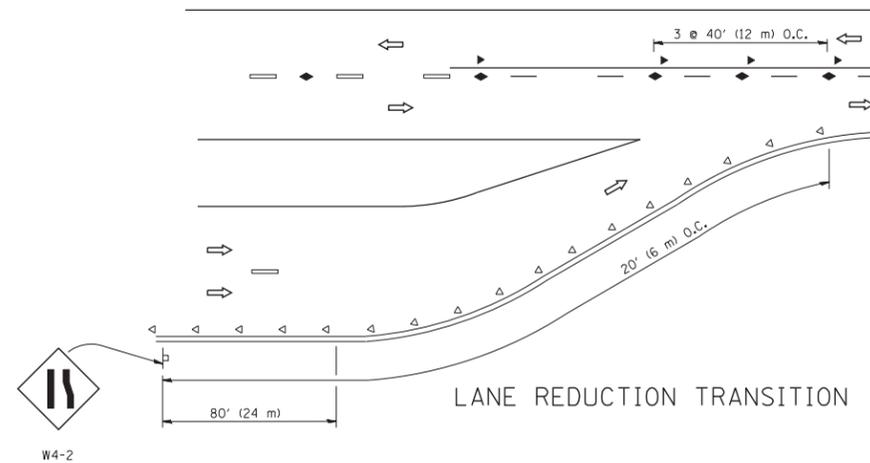
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	016-0939	COOK	70	66
TC-10		CONTRACT NO. 60M72		
ILLINOIS FED. AID PROJECT				

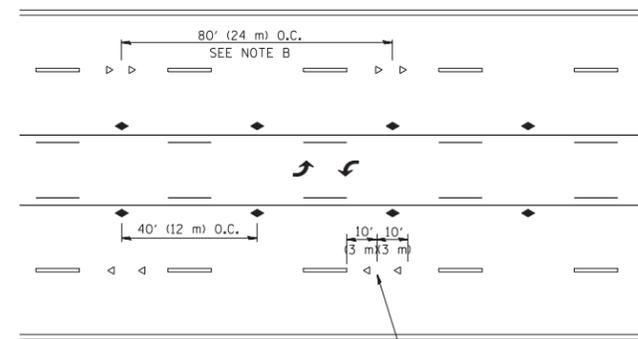


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

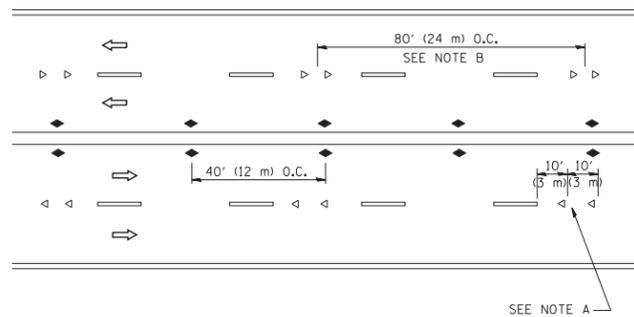
TWO-LANE/TWO-WAY



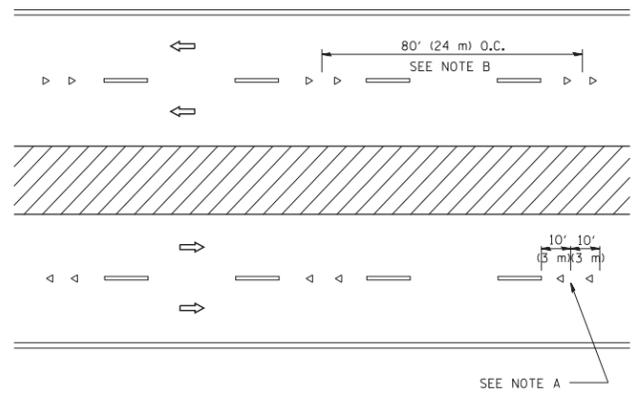
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

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.

SYMBOLS

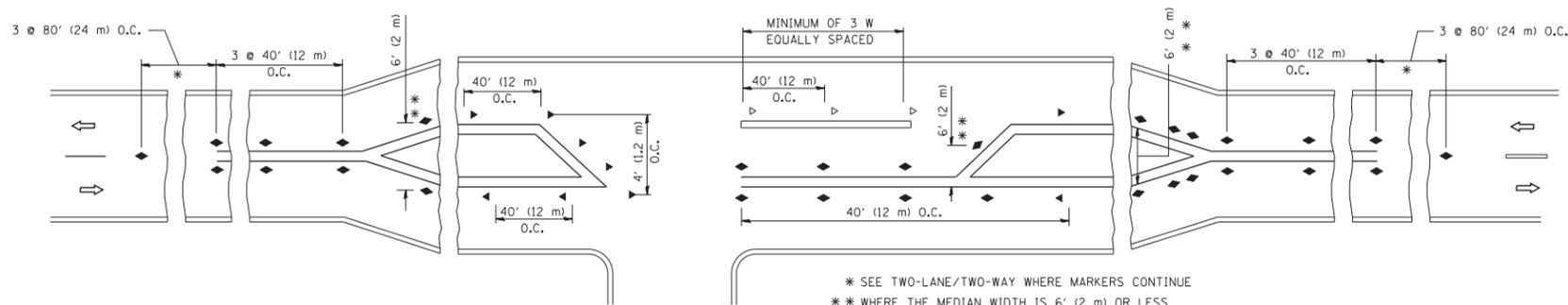
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



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

LEFT TURN

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

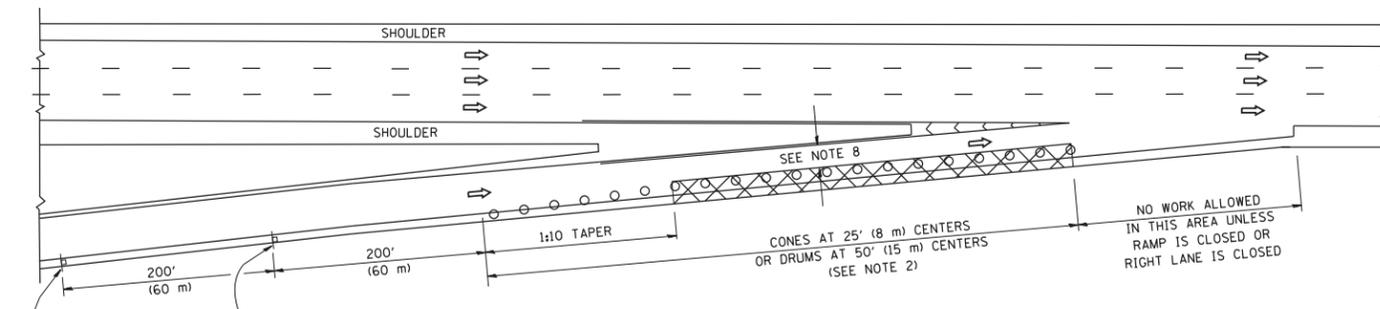
FILE NAME =	USER NAME = lryso	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
ct:\pw\work\p\dot\lryso\d0108315\l1.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

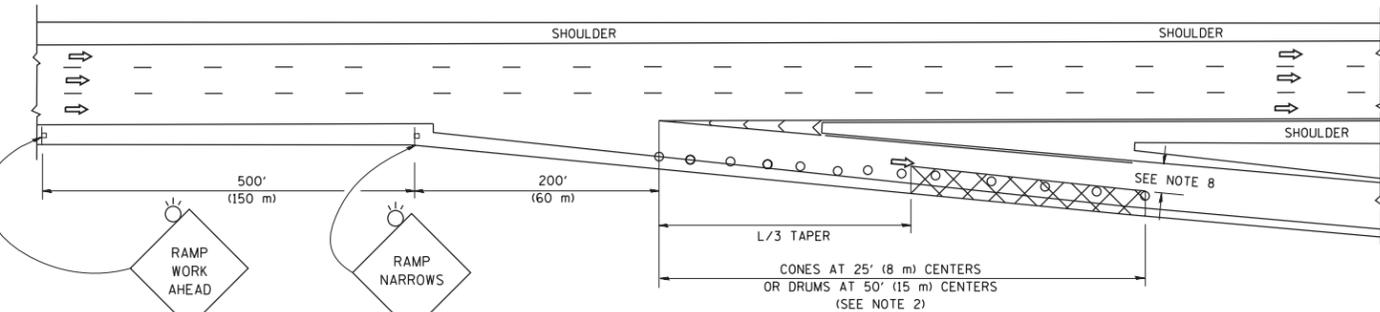
TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	016-0939	COOK	70	67
TC-11			CONTRACT NO. 60M72	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

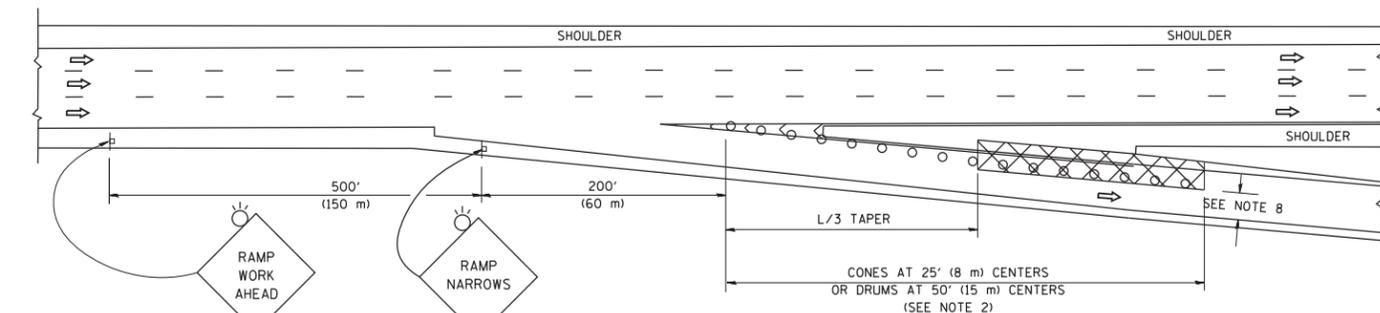
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

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

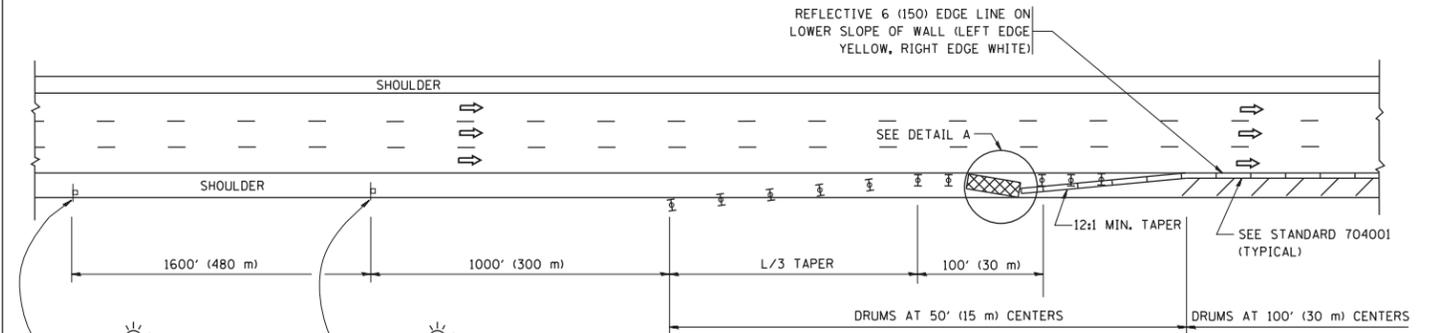
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

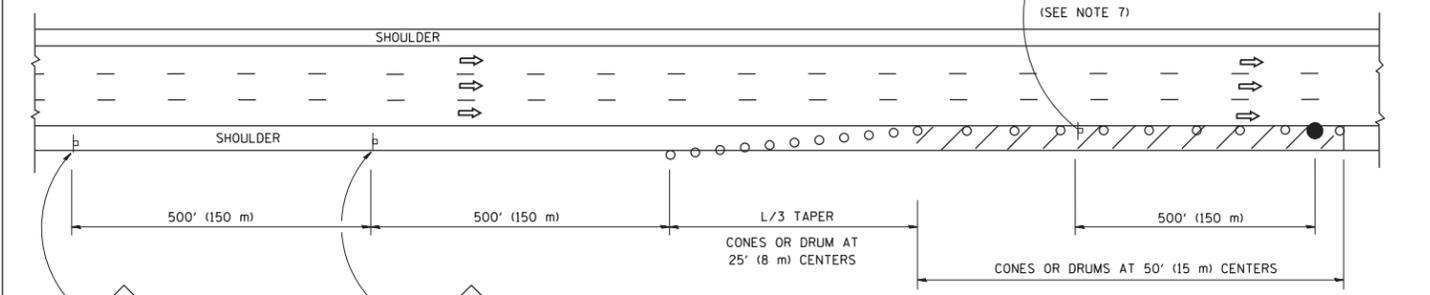
SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L=0.65(W)(S)$ $L=(W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS)
 S = NORMAL POSTED SPEED MPH (KM/H)
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
 16' MIN. WIDTH CURVE SECTION.

SHOULDER CLOSURE DETAILS

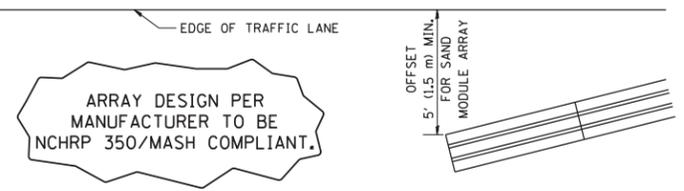


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

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



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

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

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

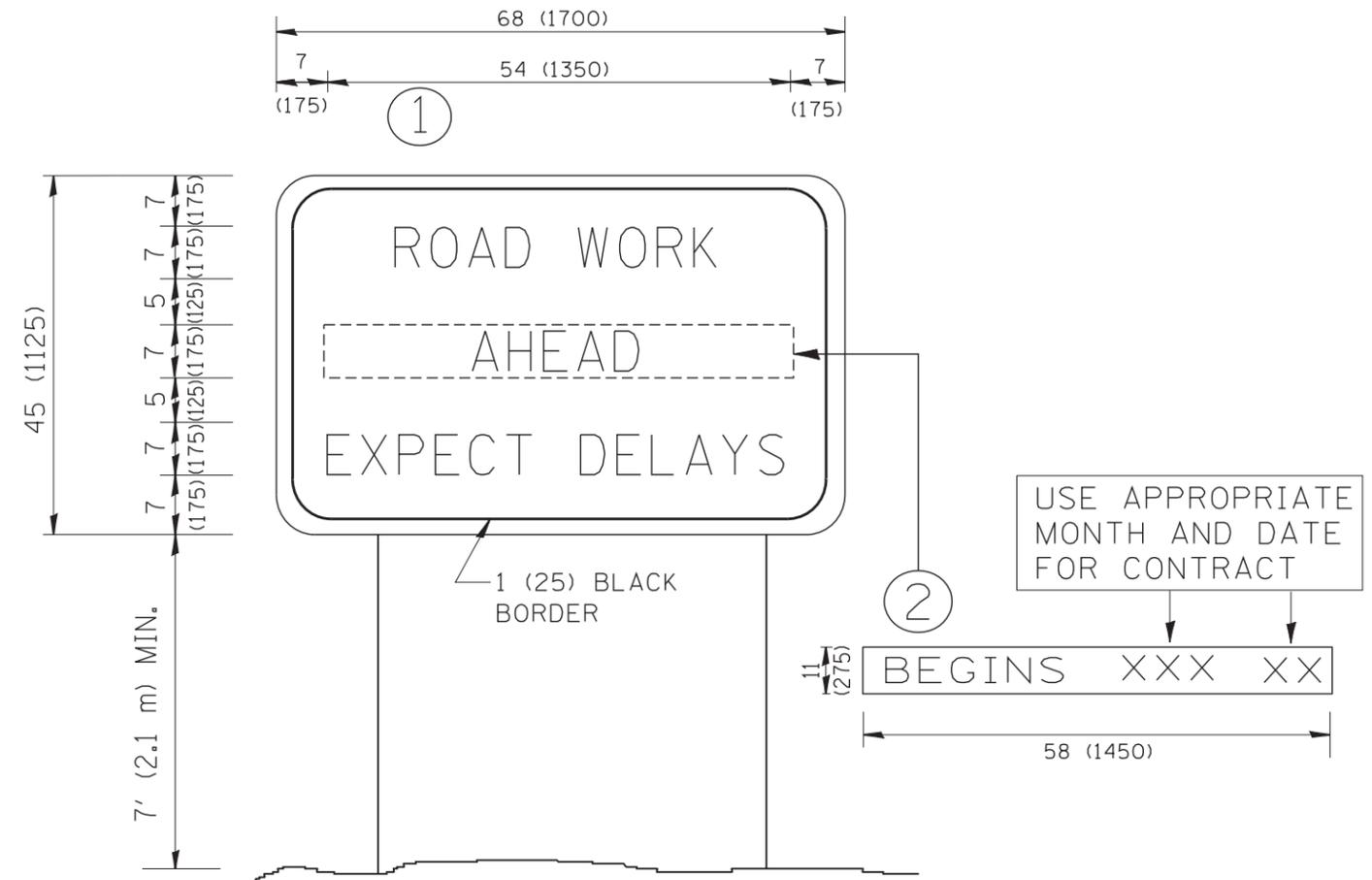
FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - S.P.B. 01-07
pw:\IL084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\Dist 1\CD\W5\to17.dgn		CHECKED -	REVISED - S.P.B. 12-09
Default	PLOT SCALE = 50.0000' / in.	DATE - 11-96	REVISED - M.D. 06-13
	PLOT DATE = 11/27/2017		REVISED - M.D. 01-18

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
 SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	016-0939	COOK	70	69
TC-17		CONTRACT NO. 60M72		
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.

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gegltonbt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	016-0939	COOK	70	70
TC-22		CONTRACT NO. 60M72		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				