

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.I. ROUTE 70 (I-70)
SECTION (18,12-49)RS-3,(12-49,HB-2)BR
PROJECT ACNHPP - 0070 (407)
RESURFACING AND BRIDGE REPAIR
CLARK COUNTY
C-97-096-14

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 18,300 (2014)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70		CLARK	70	1
		ILLINOIS	CONTRACT NO. 74689	
*(18,12-49)RS-3,(12-49,HB-2)BR				

D-97-049-14

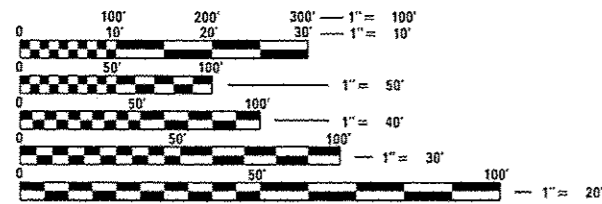
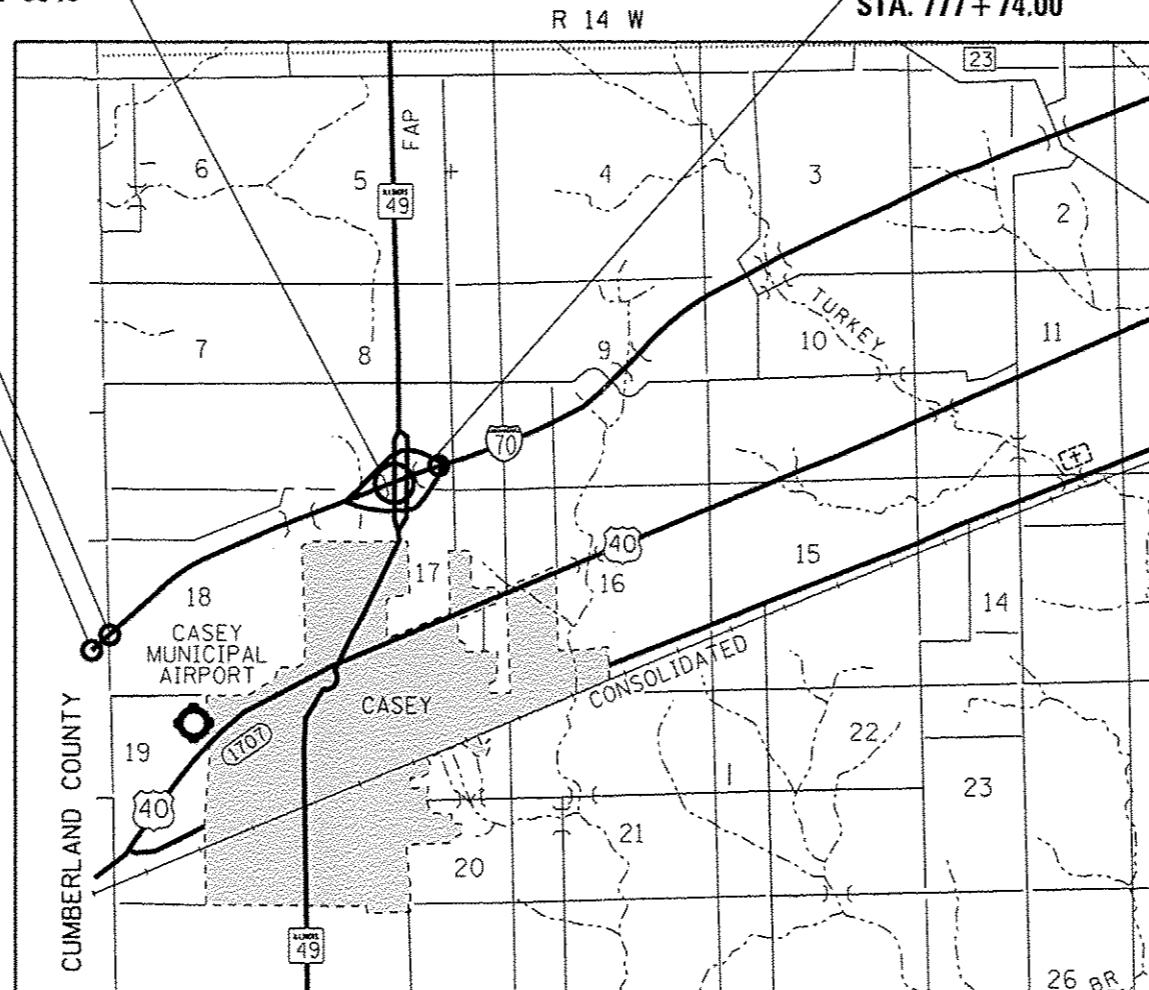


BRIDGE REPAIR
S.N. 012-0048

END PROJECT:
STA. 777 + 74.00

PAVING OMISSION:
E.B. STA. 729 + 01.00
TO STA. 731 + 13.00

BEGIN PROJECT:
STA. 675 + 64.00



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

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

PROJECT ENGINEER: TOM ROMAN
PROJECT MANAGER: JEFF DAVISON
PHONE: (217)-342-8314
CONTRACT NO. 74689

GROSS LENGTH = 10,210.00 FT. = 1.9337 MILES
NET LENGTH = 9,998.00 FT. = 1.8936 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 25 20 15
Roger C. Smith 100
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 8 20 15
John D. Baranzelli PE
ENGINEER OF DESIGN AND ENVIRONMENT

May 8 20 15
Omer Osman PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

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000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
442001-04	CLASS A PATCHES
442101-07	CLASS B PATCHES
630001-10	STEEL PLATE BEAM GUARDRAIL
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631033-06	TRAFFIC BARRIER TERMINAL, TYPE 6B
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
642001-02	SHOULDER RUMBLE STRIPS, 16"
701101-04	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5M) TO 24' (600MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5M) AWAY
701400-08	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-09	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-10	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701406-09	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701423-08	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS >= 45 MPH TO 55 MPH
701426-07	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS > 45 MPH
701456-03	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701901-04	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

*(18,12-49)RS-3,(12-49,HB-2)BR

FILE NAME =	USER NAME = staffcmh	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS AND GENERAL NOTES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pm\11.084EBID\INTEG\11\illinois.gov\PKIDOT\Do	umanta\DOT Offices\District 7\Projects\746	DRAMA\CAD\shwts\0774689-shr-index.dwg	REVISED -			70		CLARK	70	2
Default	PLOT SCALE = 1/8" = 1' / 1/4"	CHECKED -	REVISED -		SCALE: N/A	SHEET 1 OF 1 SHEETS		STA. TO STA.		CONTRACT NO. 74689
	PLOT DATE = 3/25/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT					

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012; AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THIS PROJECT IS LOCATED ON FAI ROUTE TO (I-70) IN CLARK COUNTY, FROM THE CUMBERLAND COUNTY LINE TO APPROXIMATELY TWO MILES TO THE EAST. THE WORK INCLUDED IN SECTION (18,12-49)RS-3,(12-49,HB-2)BR CONSISTS OF STRUCTURE REPAIRS, PAVEMENT PATCHING, MILLING, HOT-MIX ASPHALT RESURFACING, AGGREGATE SHOULDERS, PAVEMENT MARKING, AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION.

PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH SECTION 780 OF THE STANDARD SPECIFICATIONS. SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE FINAL SURFACE, AS SPECIFIED IN SECTION 703 OF THE STANDARD SPECIFICATIONS. TEMPORARY TAPE SHALL BE USED ON THE SURFACE COURSE AND HOT-MIX ASPHALT SHOULDERS. PAINT SHALL BE USED ON MILLED SURFACES OR SURFACES THAT WILL BE MILLED.

THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED AS DOUBLE MARKERS AS SHOWN ON STANDARD 781001.

THE PAY ITEM BRIDGE WASHING *1 IS FOR REMOVING ALL SOOT ON THE UNDERSIDE OF THE STRUCTURE TO THE SATISFACTION OF THE ENGINEER INCLUDING BUT NOT LIMITED TO, STRUCTURAL STEEL, CONCRETE BRIDGE DECK, SOUTH PIER AND ABUTMENT, BEARINGS, ETC.

THE MATERIAL USED FOR AGGREGATE WEDGE SHOULDERS, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE, OR RAP.

THE EXISTING PAVEMENT SHALL BE PATCHED IN ACCORDANCE WITH SECTION 442 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. THE QUANTITY OF PATCHING SHOWN ON THE PLANS IS AN ESTIMATE. THE FINAL LOCATIONS AND QUANTITY SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

FRONTIER COMMUNICATIONS HAS A CONDUIT ATTACHED TO STRUCTURE NUMBER 012-0048. IT WILL BE THE RESPONSIBILITY OF FRONTIER COMMUNICATIONS TO PROTECT THEIR FACILITY DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY FRONTIER COMMUNICATIONS TWO WEEKS PRIOR TO BEGINNING REPAIRS TO STRUCTURE NUMBER 012-0048. FRONTIER COMMUNICATIONS CONTACT INFORMATION IS AS FOLLOWS:

FRONTIER COMMUNICATIONS
1205 SOUTH CENTRAL AVENUE
PARIS, ILLINOIS 61944
ATTN. MICHELE LEWSADER
(217) 463-3129

THE PAY ITEM TEMPORARY RAMP HAS BEEN INCLUDED FOR THE CONSTRUCTION OF TEMPORARY RAMPS IN ACCORDANCE WITH ARTICLE 406.08 OF THE STANDARD SPECIFICATIONS. THE COST PER SQUARE YARD SHALL INCLUDE BOTH THE INSTALLATION AND THE REMOVAL OF THE TEMPORARY RAMPS.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT LIFTS.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESSIBILITY TO THE HOT-MIX ASPHALT PLANT QUALITY CONTROL LAB SO THAT HOT-MIX ASPHALT PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL HOT-MIX ASPHALT ITEMS.

A UNIFORMLY STRAIGHT SAW CUT SHALL BE MADE AT LOCATIONS WHERE PROPOSED NEW CONSTRUCTION WILL ABUT EXISTING HOT-MIX ASPHALT SURFACES. THE SAW CUT SHALL BE MADE FULL DEPTH THROUGH THE EXISTING SURFACE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

THE CONTRACTOR WILL BE REQUIRED TO USE A MATERIAL TRANSFER DEVICE AT ALL TIMES WHEN CONSTRUCTING STONE MATRIX ASPHALT, N80.

IN ADDITION TO THE REQUIREMENTS FOR PORTABLE CHANGEABLE MESSAGE SIGNS IN ARTICLE 701.15(J), A LAPTOP COMPUTER THAT IS COMPATIBLE WITH THE CHANGEABLE MESSAGE SIGN SHALL ALSO BE SUPPLIED BY THE CONTRACTOR.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

6 1/2" RESURFACING SECTION ON I-70

MIXTURE USE: STONE MATRIX ASPHALT (SMA)(2")
APPLICATION: POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80
PG GRADE: SBS PG 76-22
DESIGN AIR VOIDS: 4.0% @ Ndesign = 80
MIXTURE COMPOSITION: IL-12.5
FRICTION AGGREGATE: N/A

MIXTURE USE: TOP BINDER COURSE LIFT (2 1/4")
APPLICATION: POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90
PG GRADE: SBS PG 70-22
DESIGN AIR VOIDS: 4.0% @ Ndesign = 90
MIXTURE COMPOSITION: IL-19.0
FRICTION AGGREGATE: N/A

MIXTURE USE: BINDER COURSE LIFT #1 (2 1/4")
APPLICATION: HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90
PG GRADE: PG 64-22
DESIGN AIR VOIDS: 4.0% @ Ndesign = 90
MIXTURE COMPOSITION: IL-19.0
FRICTION AGGREGATE: N/A

MIXTURE USE: TOP SHOULDER LIFT (2")
APPLICATION: HOT-MIX ASPHALT SURFACE COURSE, IL-9.5L, N30
PG GRADE: PG 64-22
DESIGN AIR VOIDS: 4.0% @ Ndesign = 30
MIXTURE COMPOSITION: IL-9.5L
FRICTION AGGREGATE: N/A

MIXTURE USE: BOTTOM SHOULDER LIFTS (6")
APPLICATION: HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90
PG GRADE: PG 64-22
DESIGN AIR VOIDS: 4.0% @ Ndesign = 90
MIXTURE COMPOSITION: IL-19.0
FRICTION AGGREGATE: N/A

INTERSTATE RAMPS AT ILLINOIS 49 INTERCHANGE

MIXTURE USE: SURFACE COURSE (1 1/2") (RAMPS A, B, C, & D)
APPLICATION: HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N90
PG GRADE: SBS PG 70-22
DESIGN AIR VOIDS: 4.0% @ Ndesign = 90
MIXTURE COMPOSITION: IL-9.5
FRICTION AGGREGATE: MIXTURE C

MIXTURE USE: RAMP SHOULDERS (TOP 1 1/2") (RAMPS A, B, C, & D)
APPLICATION: HOT-MIX ASPHALT SURFACE COURSE, IL-9.5L, N30
PG GRADE: PG 64-22
DESIGN AIR VOIDS: 4.0% @ Ndesign = 30
MIXTURE COMPOSITION: IL-9.5L
FRICTION AGGREGATE: N/A

MIXTURE USE: 10' RAMP C SHOULDER (BOTTOM 6")
APPLICATION: HOT-MIX ASPHALT BINDER COURSE, IL-19.0L, N30
PG GRADE: PG 64-22
DESIGN AIR VOIDS: 4.0% @ Ndesign = 30
MIXTURE COMPOSITION: IL-19.0L
FRICTION AGGREGATE: N/A

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN THE CALCULATING PLAN QUANTITIES:

AGGREGATE SHOULDERS	2.05	TONS/CU YD
BITUMINOUS MATERIALS (PRIME COAT)		
MILLED SURFACE/BARE CONCRETE	0.05	LBS/SQ FT
FOG COAT, BETWEEN LIFTS	0.025	LBS/SQ FT
HOT-MIX ASPHALT	112	LBS/SQ YD/INCH
STONE MATRIX HOT-MIX ASPHALT	130	LBS/SQ YD/INCH

*(18,12-49)RS-3,(12-49,HB-2)BR

FILE NAME	USER NAME	DESIGNED	REVISION	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS AND GENERAL NOTES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
181249RS31249HB2BR	staff@ndt.com	03/25/2015				70		CLARK	70	3	
SCALE: N/A	SHEET 1	OF 1	SHEETS	STA.	TO STA.	CONTRACT NO. 74689					
						ILLINOIS FED. AID PROJECT					

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		90% FED 10% STATE 0005	100% STATE SN 012-0048 0014
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	91824	91824	
40600990	TEMPORARY RAMP	SQ YD	205	205	
40603090	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	7293	7293	
40603153	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80	TON	7169	7169	
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	6801	6801	
40603320	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N90	TON	1277	1277	
44000151	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"	SQ YD	10406	10406	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	14290	14290	
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	11430	11430	
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	223	223	
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	1813	1813	
44000162	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4"	SQ YD	1214	1214	
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	1900	1900	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		90% FED 10% STATE 0005	100% STATE SN 012-0048 0014
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	281	281	
44000169	HOT-MIX ASPHALT SURFACE REMOVAL, 5"	SQ YD	20340	20340	
44000175	HOT-MIX ASPHALT SURFACE REMOVAL, 6 1/2"	SQ YD	33296	33296	
44004250	PAVED SHOULDER REMOVAL	SQ YD	28276	28276	
44200629	CLASS A PATCHES, TYPE I, 15 INCH	SQ YD	32	32	
44200630	CLASS A PATCHES, TYPE II, 15 INCH	SQ YD	297	297	
44200631	CLASS A PATCHES, TYPE III, 15 INCH	SQ YD	269	269	
44200632	CLASS A PATCHES, TYPE IV, 15 INCH	SQ YD	407	407	
44201007	CLASS B PATCHES, TYPE II, 13 INCH	SQ YD	278	278	
44201055	CLASS B PATCHES, TYPE II, 17 INCH	SQ YD	96	96	
44201299	DOWEL BARS 1 1/2"	EACH	980	980	
44213000	PATCHING REINFORCEMENT	SQ YD	1005	1005	
44213200	SAW CUTS	FOOT	6054	6054	
44213204	TIE BARS 3/4"	EACH	266	266	

FILE NAME = USER NAME = staffennk
 C:\Users\staffennk\Documents\DOT Offices\District 7\Projects\746\DRAWING\CAD\Drawings\0774689-ant-eq.dgn
 PLOT SCALE = 100.0000 1/1 in.
 PLOT DATE = 3/25/2019

DESIGNED -
 REVISIONS -
 CHECKED -
 DATE -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 SCALE: N/A SHEET 1 OF 4 SHEETS STA. TO STA.

*(18,12-49)RS-3,(12-49,HB-2)BR
 COUNTY TOTAL SHEETS NO. 70 4
 CLARK 70 4
 CONTRACT NO. 74689
 ILLINOIS FED. AID PROJECT

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SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		90% FED 10% STATE 0005	100% STATE SN 012-0048 0014
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	626	626	
48203003	HOT-MIX ASPHALT SHOULDERS, 1 1/2"	SO YD	8278	8278	
48203004	HOT-MIX ASPHALT SHOULDERS, 1 3/4"	SO YD	281	281	
48203005	HOT-MIX ASPHALT SHOULDERS, 2"	SO YD	12662	12662	
48203008	HOT-MIX ASPHALT SHOULDERS, 2 3/4"	SO YD	736	736	
48203010	HOT-MIX ASPHALT SHOULDERS, 3 1/4"	SO YD	6975	6975	
48203016	HOT-MIX ASPHALT SHOULDERS, 4 3/4"	SO YD	200	200	
48203019	HOT-MIX ASPHALT SHOULDERS, 5 1/2"	SO YD	240	240	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	30987	30987	
50102400	CONCRETE REMOVAL	CU YD	35	35	
50300100	FLOOR DRAINS	EACH	5	5	
50300225	CONCRETE STRUCTURES	CU YD	42.5	42.5	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	29.7	29.7	
50300300	PROTECTIVE COAT	SO YD	102.8	102.8	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		90% FED 10% STATE 0005	100% STATE SN 012-0048 0014
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	20550	20550	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	14640	14640	
50800530	MECHANICAL SPLICERS	EACH	259	259	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	14	14	
59200101	BRIDGE WASHING NO. 1	EACH	1	1	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	600	600	
* 63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	1570	1570	
* 63302720	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6B	EACH	1	1	
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	38854	38854	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	15	10	5

* SPECIALTY ITEM

FILE NAME =	USER NAME = staffamk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11\2848\INTEG\Illinois.gov\41001\00	ments\DOT Office\District 7\Projects\748	DRAWN	REVISED			70		CLARK	70	5	
	PLOT SCALE = 100,0000 / in.	CHECKED -	REVISED -			CONTRACT NO. 74689					
Default	PLOT DATE = 3/25/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		90% FED 10% STATE 0005	100% STATE SN 012-0048 0014
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1		1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	9	8	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1	
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1	
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	14	14	
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	6088	6000	88
70107007	PAVEMENT MARKING BLACKOUT TAPE, 7"	FOOT	1000	750	250
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1867	1867	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	53754	53754	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		90% FED 10% STATE 0005	100% STATE SN 012-0048 0014
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	1863	1863	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	160	160	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	64	64	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	24132	23006	1126
70400100	TEMPORARY CONCRETE BARRIER	FOOT	538		538
70600240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	1		1
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1		1
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	53754	53754	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1863	1863	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	160	160	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	64	64	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	73		73

* SPECIALTY ITEM

*(18,12-49)RS-3,112-49,HB-2)BR

FILE NAME #	USER NAME = staffemm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
path: \\L846SID\INTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 7\Projects\74689\DRAWING\CA\shasta\0774689-shr-sq.dgn	PLOT SCALE = 1/8" = 100.0000' / in.	CHECKED -	REVISED -			70	*	CLARK	70	6	
Default	PLOT DATE = 3/25/2010	DATE -	REVISED -			SCALE: N/A SHEET 3 OF 4 SHEETS STA. TO STA.		CONTRACT NO. 74689			
						ILLINOIS FED. AID PROJECT					

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		90% FED 10% STATE 0005	100% STATE SN 012-0048 0014
* 78004230	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"	FOOT	5423	5423	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	675	675	
* 78100300	REPLACEMENT REFLECTOR	EACH	25		25
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	16	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300100	PAVEMENT MARKING REMOVAL	SO FT	17412	17412	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	25		25
* X0326245	WEATHER SENSOR UPGRADE AND REPLACE	L SUM	1	1	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	3440	3440	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1
X7010410	SPEED DISPLAY TRAILER	CAL MO	15	10	5
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	42	28	14
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	48		48

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		90% FED 10% STATE 0005	100% STATE SN 012-0048 0014
* X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	53754	53754	
* X7830076	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	1863	1863	
* X7830078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	160	160	
* X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	64	64	
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	20550		20550
Z0005010	HOT-MIX ASPHALT FOR PATCHING POTHOLES (COLD MIX)	TON	2	2	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	49.4		49.4
Z0034105	MATERIAL TRANSFER DEVICE	TON	20576	20576	
Z0050100	REMOVE AND RE-ERECT EXISTING HANDRAIL	FOOT	72		72
Z0073300	TEMPORARY SHORING AND CRIBBING	L SUM	1		1
Z0076600	TRAINEES	HOUR	1000		1000
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000		1000

* SPECIALTY ITEM

FILE NAME =	USER NAME = steffernk	DESIGNED -	REVISED -
\\s\l\084EBID\INTEG\11\mes.gov\K1007\00	\\s\l\084EBID\INTEG\11\mes.gov\K1007\00	CHECKED -	REVISED -
PLT SCALE = 100:2000 7/11	PLT DATE = 3/25/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

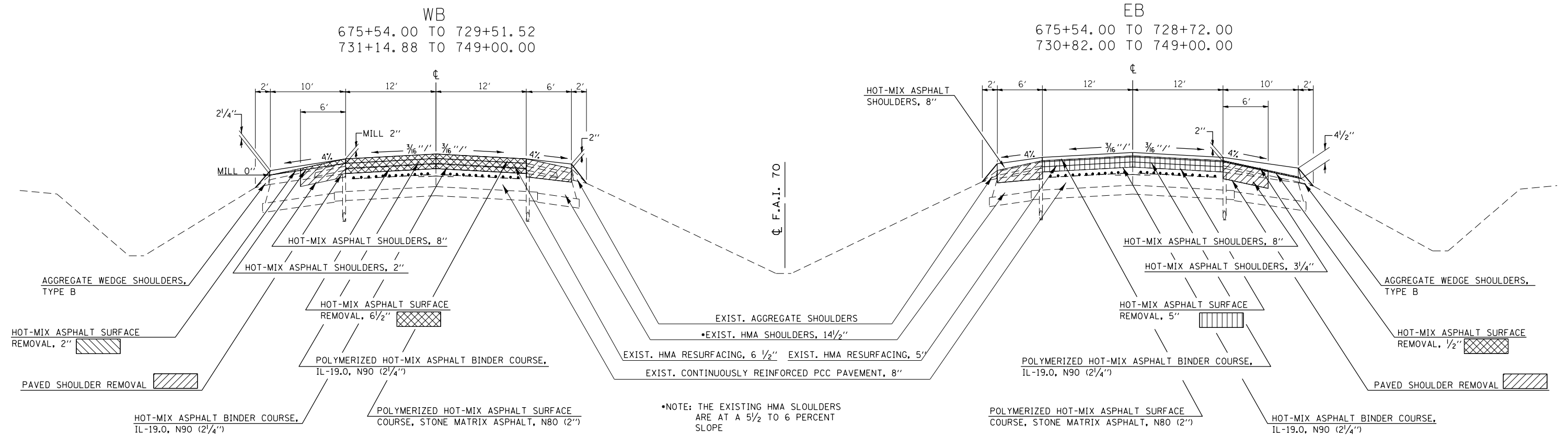
SUMMARY OF QUANTITIES

SCALE: N/A SHEET 4 OF 4 SHEETS STA. TO STA.

* (18,12-49)RS-3, (12-49,HB-2)BR		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70				CLARK	70	7
					CONTRACT NO. 74689	
ILLINOIS FED. AID PROJECT						

NOTE: NOT DRAWN TO SCALE

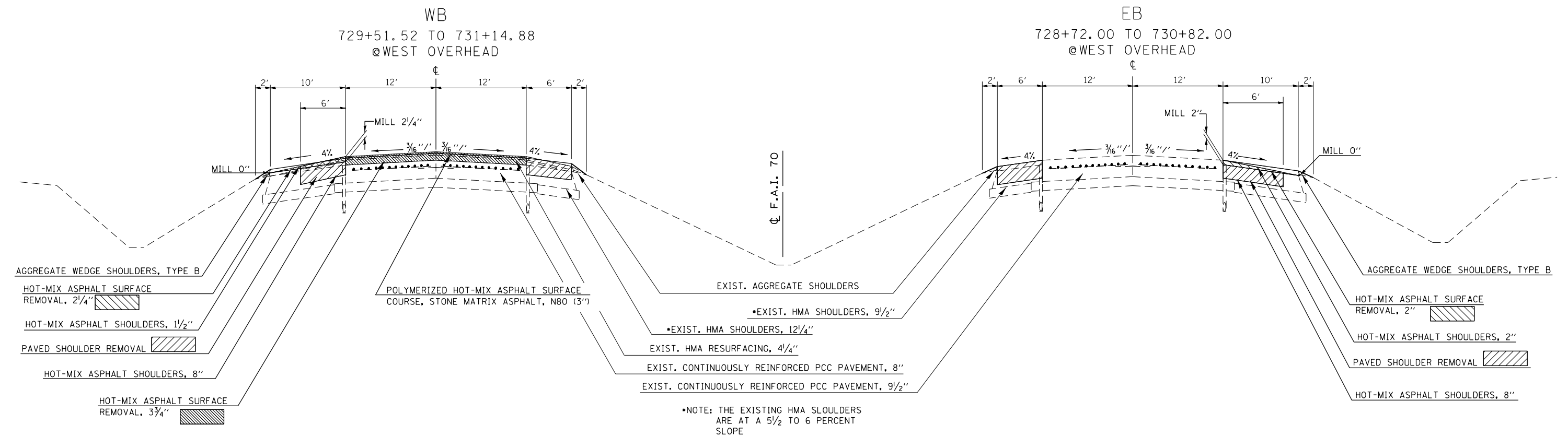
TYPICAL CROSS SECTION ①



•NOTE: SEE SHOULDER MILLING AND PAVING DETAILS FOR AREAS OF SHOULDER MILLING AND RESURFACING

NOTE: NOT DRAWN TO SCALE

TYPICAL CROSS SECTION ②



FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 7\Projects\74689\Drawings\CAD\Sheets\0774689-sht-typicals		CHECKED -	REVISED -
Default	PLOT DATE = 3/25/2015	DATE -	REVISED -

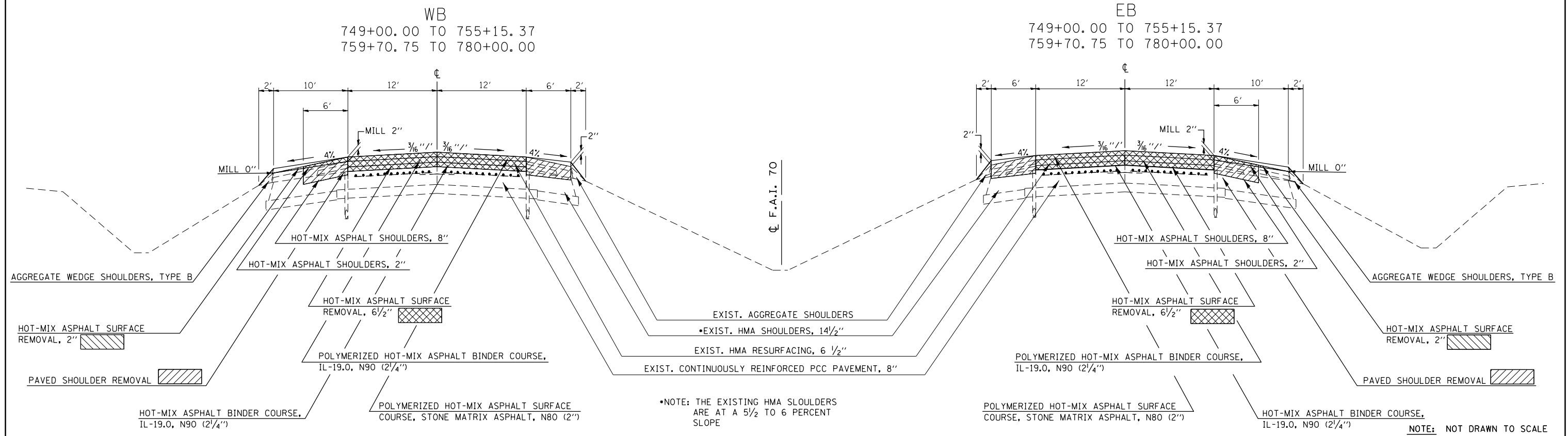
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

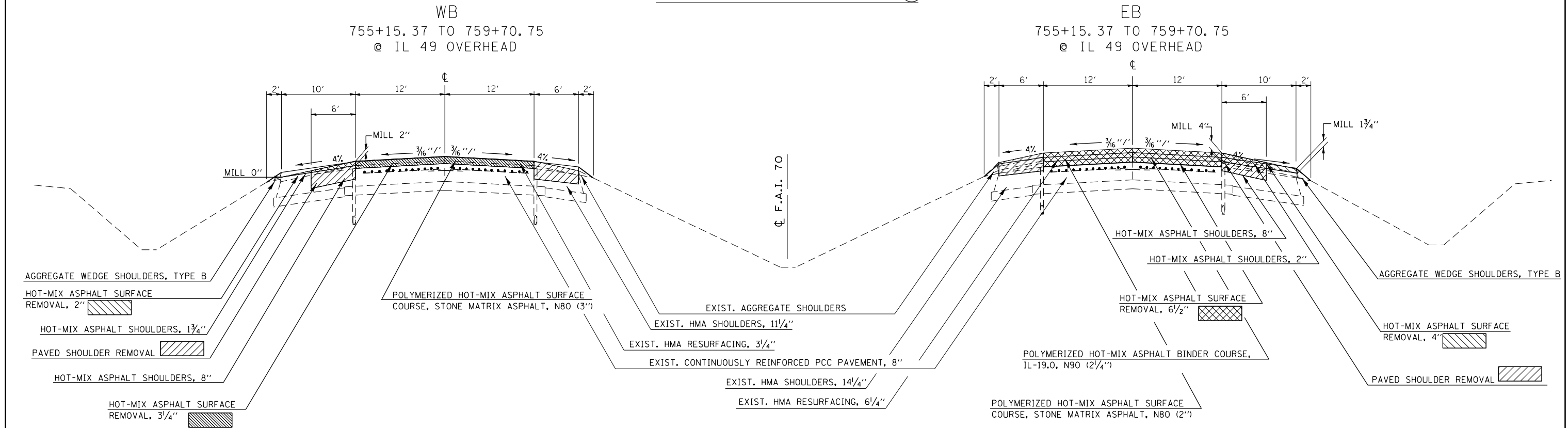
SCALE: N/A SHEET 1 OF 4 SHEETS STA. TO STA.

•(18,12-49)RS-3,(12-49,HB-2)BR			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
70	•	CLARK	70
			8
CONTRACT NO. 74689			
ILLINOIS FED. AID PROJECT			

TYPICAL CROSS SECTION ③



TYPICAL CROSS SECTION ④



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 7\Projects\74689\Drawings\CAD\Sheets\0774689-sht-typical.dwg	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -		70	•	CLARK	70	9			
Default	PLOT DATE = 3/25/2015	DATE -	REVISED -		CONTRACT NO. 74689							
					SCALE: N/A	SHEET 2 OF 4 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

•(18,12-49)RS-3,(12-49,HB-2)BR

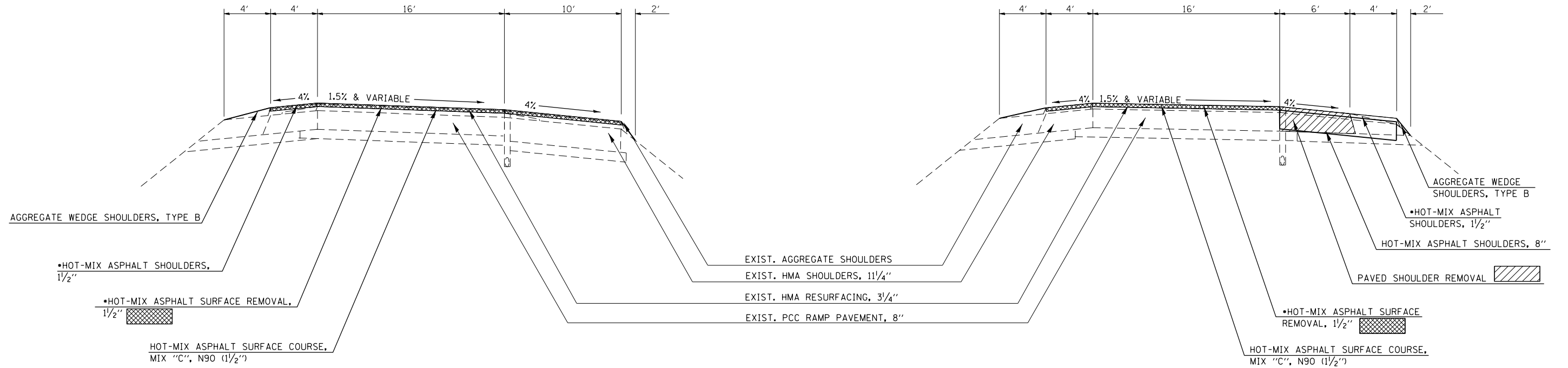
•NOTE: SEE RAMP MILLING AND PAVING DETAILS FOR AREAS OF SHOULDER MILLING AND RESURFACING

NOTE: NOT DRAWN TO SCALE

TYPICAL CROSS SECTION

RAMPS "A", "B" & "D"

RAMP "C"



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
pw:\11084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 7\Projects\74689\Drawings\CAD\Drawings\74689-sht-typicals.dwg		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -
	PLOT DATE = 3/25/2015	DATE -	REVISED -

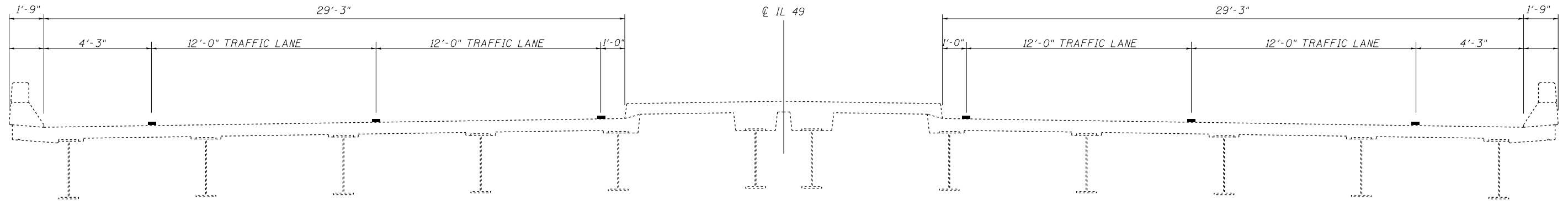
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: N/A SHEET 3 OF 4 SHEETS STA. TO STA.

•(18,12-49)RS-3,(12-49,HB-2)BR			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
70	•	CLARK	70 10
			CONTRACT NO. 74689
ILLINOIS FED. AID PROJECT			

SN 012-0048
LOOKING NORTH



•(18,12-49)RS-3,(12-49,HB-2)BR

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
pw:\IL084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 7\Projects\7468\Drawings\CADsheets\0774714-sht-typcrl.dwg		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/25/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTION

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	CLARK	70	11
				CONTRACT NO. 74689
ILLINOIS FED. AID PROJECT				

TYPICAL STAGING CROSS SECTION

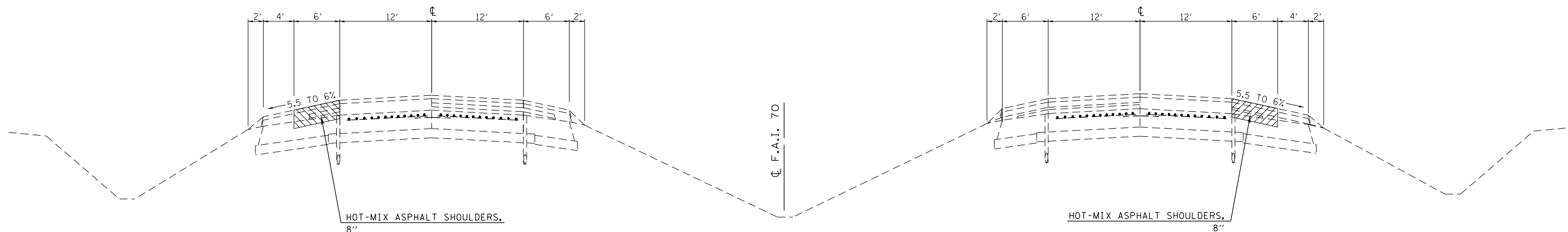
PRE-STAGE

WB

675+54.00 TO 729+51.52
731+14.88 TO 750+05.00

EB

675+54.00 TO 728+72.00
730+82.00 TO 780+00.00

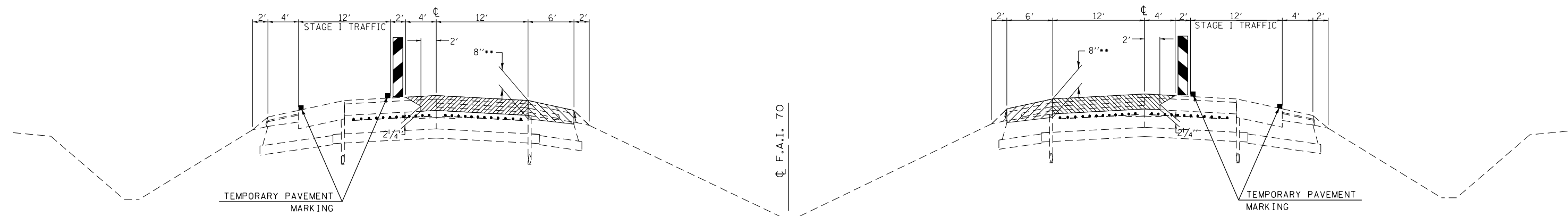


NOTE: EXISTING SHOULDERS WERE CONSTRUCTED WITH A 5.5 TO 6% SLOPE

PAVED SHOULDER REMOVAL

TYPICAL STAGING CROSS SECTION

STAGE 1A



NOTE: EXISTING SHOULDERS WERE CONSTRUCTED WITH A 5.5 TO 6% SLOPE

••MILL EXISTING SHOULDER TO 4% SLOPE

PAVED SHOULDER REMOVAL

HMA SURFACE REMOVAL, 6 1/2"

•(18,12-49)RS-3,(12-49,HB-2)BR

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74689\DRAWING\CAD\Sheets\0774689-sht-typicals		CHECKED -	REVISED -
Default	PLOT DATE = 3/25/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

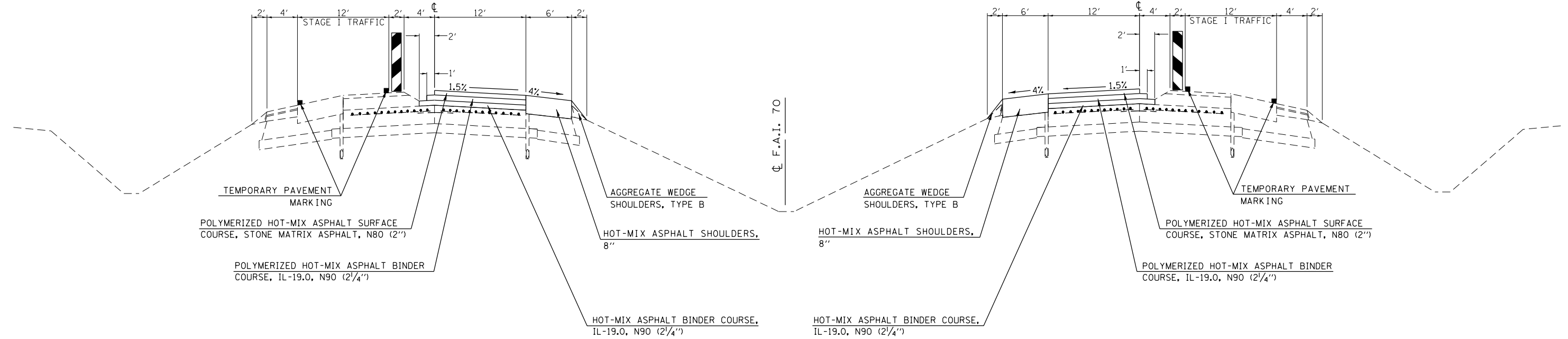
STAGING TYPICAL SECTIONS

SCALE: N/A SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	CLARK	70	12
CONTRACT NO. 74689				
ILLINOIS FED. AID PROJECT				

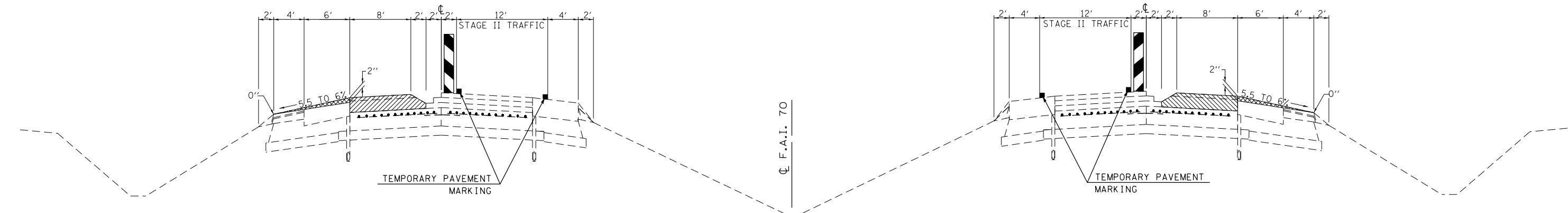
TYPICAL STAGING CROSS SECTION

STAGE 1B



TYPICAL STAGING CROSS SECTION

STAGE 2A



- HMA SURFACE REMOVAL, 6 1/2"
- HMA SURFACE REMOVAL (VARIABLE DEPTH)

•(18,12-49)RS-3,(12-49,HB-2)BR

FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -
pw:\IL\084EBID\INTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 7\Projects\74689\Drawings\CAD\Sheets\0774689-sht-typical		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/25/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

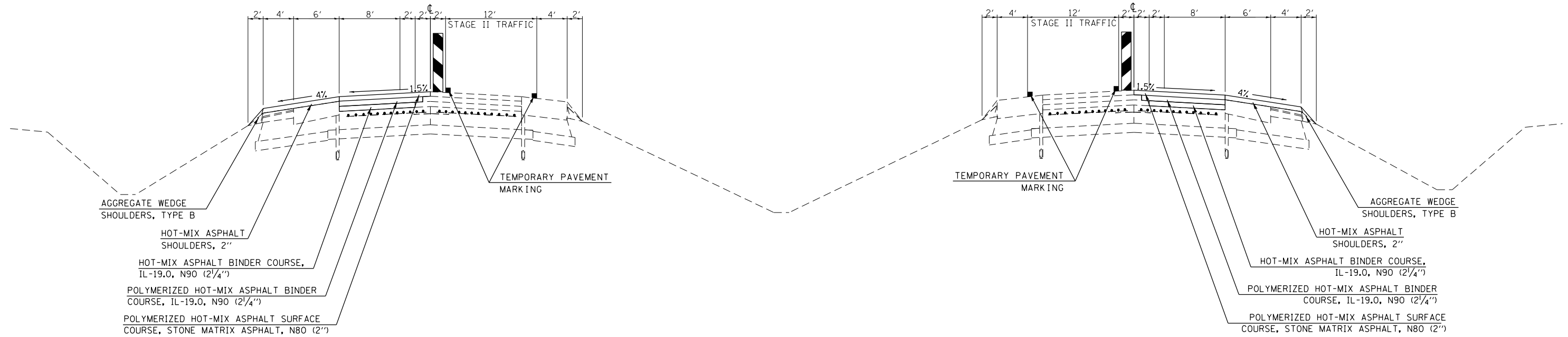
STAGING TYPICAL SECTIONS

SCALE: N/A SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	CLARK	70	13
CONTRACT NO. 74689				
ILLINOIS FED. AID PROJECT				

TYPICAL STAGING CROSS SECTION

STAGE 2B



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74689\Drawings\CAD\Sheets\0774689-sht-typical		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
Default	PLOT DATE = 3/25/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGING TYPICAL SECTIONS

SCALE: N/A SHEET 3 OF 3 SHEETS STA. TO STA.

•(18,12-49)RS-3,(12-49,HB-2)BR

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	CLARK	70	14
				CONTRACT NO. 74689
ILLINOIS FED. AID PROJECT				

MILLING SCHEDULE

STATION		TO	STATION	LENGTH FEET	PAVEMENT WIDTH FEET	SHOULDER WIDTH FEET	AREA SQ FT	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2" SQ YD	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 2" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 4" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 5" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 6 1/2" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH SQ. YD.
EB MAINLINE																		
675+54.00	TO		727+74.50	5,220.5	24.0	16.0	208,820.0	5,800.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13,921.3	0.0	0.0
727+74.50	TO		728+19.50	45.0	24.0	16.0	1,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	120.0	0.0	50.0
728+19.50	TO		728+72.00	52.5	24.0	16.0	2,100.0	0.0	0.0	58.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	140.0
728+72.00	TO		730+83.00	211.0	24.0	16.0	3,376.0	0.0	0.0	234.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
730+83.00	TO		731+35.50	52.5	24.0	16.0	2,100.0	0.0	0.0	58.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	140.0
731+35.50	TO		731+80.50	45.0	24.0	16.0	1,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	120.0	0.0	50.0
731+80.50	TO		738+91.85	711.4	24.0	16.0	28,454.0	790.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,896.9	0.0	0.0
738+91.85	TO		744+21.66	529.8	24.0	16.0	15,894.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,412.8	0.0	0.0
744+21.66	TO		745+54.06	132.4	24.0	16.0	3,972.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	353.1	0.0	0.0
745+54.06	TO		749+00.00	345.9	24.0	16.0	13,837.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	922.5	0.0	0.0
749+00.00	TO		755+82.29	682.3	24.0	16.0	27,291.6	0.0	0.0	758.1	0.0	0.0	0.0	0.0	0.0	0.0	1,819.4	0.0
755+82.29	TO		756+27.29	45.0	24.0	16.0	1,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	120.0	50.0
756+27.29	TO		756+49.79	22.5	24.0	16.0	900.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	25.0
756+49.79	TO		759+02.32	252.5	24.0	16.0	10,101.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	280.6	0.0	673.4	0.0
759+02.32	TO		759+24.82	22.5	24.0	16.0	900.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	25.0
759+24.82	TO		759+69.82	45.0	24.0	16.0	1,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	120.0	50.0
759+69.82	TO		766+42.80	673.0	24.0	16.0	26,919.2	0.0	0.0	747.8	0.0	0.0	0.0	0.0	0.0	0.0	1,794.6	0.0
766+42.80	TO		767+71.40	128.6	24.0	16.0	3,858.0	0.0	0.0	142.9	0.0	0.0	0.0	0.0	0.0	0.0	342.9	0.0
767+71.40	TO		777+20.23	948.8	24.0	16.0	28,464.9	0.0	0.0	1,054.3	0.0	0.0	0.0	0.0	0.0	0.0	2,530.2	0.0
777+20.23	TO		780+00.00	279.8	24.0	16.0	11,190.8	0.0	0.0	310.9	0.0	0.0	0.0	0.0	0.0	0.0	746.1	0.0
780+00.00	TO		782+50.00	250.0	24.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WB MAINLINE																		
675+54.00	TO		728+27.67	5,273.7	24.0	16.0	210,946.8	0.0	0.0	5,859.6	0.0	0.0	0.0	0.0	0.0	0.0	14,063.1	0.0
728+27.67	TO		728+72.67	45.0	24.0	16.0	1,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	170.0
728+72.67	TO		729+32.67	60.0	24.0	16.0	2,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	226.7
729+32.67	TO		729+40.17	7.5	24.0	16.0	300.0	0.0	0.0	0.0	8.3	0.0	0.0	20.0	0.0	0.0	0.0	20.0
729+40.17	TO		731+26.26	186.1	24.0	16.0	7,443.6	0.0	0.0	0.0	206.8	0.0	0.0	496.2	0.0	0.0	0.0	0.0
731+26.26	TO		731+33.76	7.5	24.0	16.0	300.0	0.0	0.0	0.0	8.3	0.0	0.0	20.0	0.0	0.0	0.0	20.0
731+33.76	TO		731+93.76	60.0	24.0	16.0	2,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	226.7
731+93.76	TO		732+38.76	45.0	24.0	16.0	1,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	170.0
732+38.76	TO		738+67.51	628.8	24.0	16.0	25,150.0	0.0	0.0	698.6	0.0	0.0	0.0	0.0	0.0	0.0	1,676.7	0.0
738+67.51	TO		748+19.25	951.7	24.0	16.0	28,552.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,538.0	0.0
748+19.25	TO		749+44.58	125.3	24.0	16.0	3,759.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.2	0.0

• (18, 12-49)RS-3, (12-49, HB-2) BR

FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 7\Projects\74689\Drawings\CAD\Sheets\0774689-sht-sch.dgn		CHECKED -	REVISED -		70	•	CLARK	70	15				
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		SCALE: N/A SHEET 1 OF 10 SHEETS STA. TO STA.				CONTRACT NO. 74689				
	PLOT DATE = 3/25/2015				ILLINOIS FED. AID PROJECT								

MILLING SCHEDULE

STATION		TO STATION	LENGTH FEET	PAVEMENT WIDTH FEET	SHOULDER WIDTH FEET	AREA SQ FT	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2" SQ YD	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 2" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 4" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 5" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 6 1/2" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH SQ. YD.
EB MAINLINE																	
749+44.58	TO	754+69.39	524.8	24.0	16.0	20,992.4	0.0	0.0	583.1	0.0	0.0	0.0	0.0	0.0	0.0	1,399.5	0.0
754+69.39	TO	755+66.19	96.8	24.0	16.0	3,872.0	0.0	0.0	107.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	258.1
755+66.19	TO	755+80.46	14.3	24.0	16.0	570.8	0.0	0.0	15.9	0.0	0.0	38.1	0.0	0.0	0.0	0.0	0.0
755+80.46	TO	756+25.46	45.0	24.0	16.0	1,800.0	0.0	0.0	50.0	0.0	0.0	120.0	0.0	0.0	0.0	0.0	0.0
756+25.46	TO	756+85.46	60.0	24.0	16.0	2,400.0	0.0	0.0	66.7	0.0	0.0	160.0	0.0	0.0	0.0	0.0	0.0
756+85.46	TO	756+92.96	7.5	24.0	16.0	300.0	0.0	0.0	8.3	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
756+92.96	TO	759+30.49	237.5	24.0	16.0	9,501.2	0.0	0.0	263.9	0.0	0.0	633.4	0.0	0.0	0.0	0.0	0.0
759+30.49	TO	759+37.99	7.5	24.0	16.0	300.0	0.0	0.0	8.3	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
759+37.99	TO	759+97.99	60.0	24.0	16.0	2,400.0	0.0	0.0	66.7	0.0	0.0	160.0	0.0	0.0	0.0	0.0	0.0
759+97.99	TO	760+21.59	23.6	24.0	16.0	944.0	0.0	0.0	26.2	0.0	0.0	62.9	0.0	0.0	0.0	0.0	0.0
760+21.59	TO	760+42.99	21.4	24.0	16.0	856.0	0.0	0.0	23.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.1
760+42.99	TO	761+18.39	75.4	24.0	16.0	3,016.0	0.0	0.0	83.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	201.1
761+18.39	TO	770+72.08	953.7	24.0	16.0	38,147.6	0.0	0.0	1,059.7	0.0	0.0	0.0	0.0	0.0	0.0	2,543.2	0.0
770+72.08	TO	773+76.60	304.5	24.0	16.0	9,135.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	812.1	0.0
773+76.60	TO	777+34.94	358.3	24.0	16.0	10,750.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	955.6	0.0
777+34.94	TO	780+00.00	265.1	24.0	16.0	10,602.4	0.0	0.0	294.5	0.0	0.0	0.0	0.0	0.0	0.0	706.8	0.0
780+00.00	TO	785+50.00	550.0	24.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHEET TOTALS =							6,591	0	12,582	223	0	1,214	536	281	18,747	33,296	1,880

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 7\Projects\74689\Drawings\CAD\Sheets\0774689-sht-sch.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/25/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N/A SHEET 2 OF 10 SHEETS STA. TO STA.

*(18, 12-49)RS-3, (12-49, HB-2)BR				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	*	CLARK	70	16
			CONTRACT NO. 74689	
ILLINOIS FED. AID PROJECT				

MILLING SCHEDULE

STATION	TO	STATION	LENGTH FEET	PAVEMENT WIDTH FEET	SHOULDER WIDTH FEET	AREA SQ FT	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2" SQ YD	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 2" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 4" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 5" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 6 1/2" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH SQ. YD.
FAI 70																	
RAMP A																	
100+00.47	TO	100+56.05	55.6	VARIABLE	VARIABLE	555.0	0.0	0.0	0.0	0.0	61.7	0.0	0.0	0.0	0.0	0.0	0.0
100+56.05	TO	103+58.46	302.4	VARIABLE	6.0	5,419.8	0.0	0.0	0.0	0.0	603.5	0.0	0.0	0.0	0.0	0.0	0.0
103+58.46	TO	106+62.87	304.4	16.0	6.0	6,697.0	0.0	0.0	0.0	0.0	1,147.6	0.0	0.0	0.0	0.0	0.0	0.0
106+62.87	TO	107+82.87	120.0	16.0	14.0	3,600.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	400.0
107+82.87	TO	117+18.83	936.0	16.0	14.0	28,078.8	0.0	3,119.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117+18.83	TO	118+35.00	116.2	VARIABLE	10.0	5,536.5	0.0	615.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RAMP B																	
200+34.16	TO	201+09.46	75.3	VARIABLE	14.0	3,379.8	0.0	375.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
201+09.46	TO	212+16.27	1,106.8	16.0	14.0	33,204.3	0.0	3,689.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
212+16.27	TO	212+21.27	5.0	16.0	14.0	150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7
212+21.27	TO	212+46.57	25.3	16.0	14.0	759.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.3
212+46.57	TO	213+00.57	54.0	16.0	14.0	1,620.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	180.0
213+00.57	TO	213+36.27	35.7	16.0	14.0	1,071.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	119.0
213+36.27	TO	214+60.52	124.3	16.0	10.0	3,230.5	138.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	485.3	0.0	0.0
214+60.52	TO	222+59.12	798.6	VARIABLE	10.0	17,585.2	887.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,065.9	0.0	0.0
222+59.12	TO	224+10.47	151.4	VARIABLE	10.0	1,889.6	168.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.8	0.0	0.0
RAMP C																	
300+08.94	TO	300+64.19	55.3	VARIABLE	10.0	689.4	0.0	0.0	0.0	0.0	0.0	0.0	15.4	0.0	0.0	0.0	0.0
300+64.19	TO	305+38.49	474.3	VARIABLE	10.0	12,556.8	0.0	0.0	0.0	0.0	0.0	0.0	869.8	0.0	0.0	0.0	0.0
305+38.49	TO	306+71.34	132.8	VARIABLE	10.0	4,054.3	0.0	0.0	0.0	0.0	0.0	0.0	478.1	0.0	0.0	0.0	0.0
306+71.34	TO	307+16.34	45.0	16.0	14.0	1,350.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
307+16.34	TO	307+50.02	33.7	16.0	14.0	1,010.4	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.9
307+50.02	TO	307+83.84	33.8	16.0	14.0	1,014.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.7
307+83.84	TO	307+89.34	5.5	16.0	14.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3
307+89.34	TO	308+28.84	39.5	16.0	14.0	1,185.0	0.0	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	114.1
308+28.84	TO	316+79.82	851.0	16.0	14.0	25,529.4	0.0	1,891.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
316+79.82	TO	317+94.84	115.0	VARIABLE	14.0	6,285.3	0.0	495.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RAMP D																	
400+34.16	TO	401+09.46	75.3	VARIABLE	14.0	3,382.4	0.0	375.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401+09.46	TO	412+22.46	1,113.0	16.0	14.0	33,390.0	0.0	3,710.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
412+22.46	TO	413+34.96	112.5	16.0	14.0	3,375.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	375.0
413+34.96	TO	414+59.55	124.6	16.0	10.0	3,239.3	354.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
414+59.55	TO	422+61.64	802.1	VARIABLE	10.0	17,624.7	2,025.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
422+61.64	TO	424+09.50	147.9	VARIABLE	10.0	1,849.7	205.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHEET TOTALS =							3,815	14,290	0	0	1,813	0	1,363	0	1,593	0	1,560
PROJECT TOTALS =							10,406	14,290	12,582	223	1,813	1,214	1,900	281	20,340	33,296	3,440

• (18, 12-49)RS-3, (12-49, HB-2) BR

FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES				F.A.I. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 7\Projects\74689\DRAWING\CAD\Sheets\0774689-sht-sch.dgn		CHECKED -	REVISED -		70	•	CLARK	70	17				
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		SCALE: N/A				SHEET 3 OF 10 SHEETS STA. TO STA.				
	PLOT DATE = 3/25/2015				ILLINOIS FED. AID PROJECT				CONTRACT NO. 74689				

PAVING SCHEDULE

STATION	TO	STATION	LENGTH FEET	PAVEMENT WIDTH FEET	SHOULDER WIDTH FEET	AREA SQ FT	BITUMINOUS MATERIALS (PRIME COAT) POUND	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 TON	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 TON	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 TON	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N90 TON	HOT-MIX ASPHALT SHOULDERS, 1 1/2" SQ YD	HOT-MIX ASPHALT SHOULDERS, 1 3/4" SQ YD	HOT-MIX ASPHALT SHOULDERS, 2" SQ YD	HOT-MIX ASPHALT SHOULDERS, 2 3/4" SQ YD	HOT-MIX ASPHALT SHOULDERS, 3 1/4" SQ YD	HOT-MIX ASPHALT SHOULDERS, 4 3/4" SQ YD	HOT-MIX ASPHALT SHOULDERS, 5 1/2" SQ YD	HOT-MIX ASPHALT SHOULDERS, 8" SQ YD	
EB MAINLINE																				
675+54.00	TO	727+74.50	5,220.5	24.0	16.0	208,820.0	20,882.0	1,754.1	1,754.1	1,809.8	0.0	0.0	0.0	0.0	0.0	5,800.6	0.0	0.0	0.0	6,960.7
727+74.50	TO	728+19.50	45.0	24.0	16.0	1,800.0	180.0	15.1	15.1	15.6	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	60.0
728+19.50	TO	728+72.00	52.5	24.0	16.0	2,100.0	157.5	0.0	17.6	18.2	0.0	0.0	0.0	58.3	0.0	0.0	0.0	0.0	0.0	70.0
728+72.00	TO	730+83.00	211.0	24.0	16.0	3,376.0	337.6	0.0	0.0	0.0	0.0	0.0	0.0	234.4	0.0	0.0	0.0	0.0	0.0	281.3
730+83.00	TO	731+35.50	52.5	24.0	16.0	2,100.0	157.5	0.0	17.6	18.2	0.0	0.0	0.0	58.3	0.0	0.0	0.0	0.0	0.0	70.0
731+35.50	TO	731+80.50	45.0	24.0	16.0	1,800.0	180.0	15.1	15.1	15.6	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	60.0
731+80.50	TO	738+91.85	711.4	24.0	16.0	28,454.0	2,845.4	239.0	239.0	246.6	0.0	0.0	0.0	0.0	0.0	790.4	0.0	0.0	0.0	948.5
738+91.85	TO	744+21.66	529.8	24.0	16.0	15,894.3	1,589.4	178.0	178.0	183.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	706.4
744+21.66	TO	745+54.06	132.4	24.0	16.0	3,972.0	397.2	44.5	44.5	45.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	176.5
745+54.06	TO	749+00.00	345.9	24.0	16.0	13,837.6	1,383.8	116.2	116.2	119.9	0.0	0.0	0.0	0.0	0.0	384.4	0.0	0.0	0.0	461.3
749+00.00	TO	755+82.29	682.3	24.0	16.0	27,291.6	2,729.2	229.2	229.2	236.5	0.0	0.0	0.0	758.1	0.0	0.0	0.0	0.0	0.0	909.7
755+82.29	TO	756+27.29	45.0	24.0	16.0	1,800.0	180.0	15.1	15.1	15.6	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	60.0
756+27.29	TO	756+49.79	22.5	24.0	16.0	900.0	67.5	0.0	7.6	7.8	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	30.0
756+49.79	TO	759+02.32	252.5	24.0	16.0	10,101.2	757.6	0.0	84.9	87.5	0.0	0.0	0.0	280.6	0.0	0.0	0.0	0.0	0.0	336.7
759+02.32	TO	759+24.82	22.5	24.0	16.0	900.0	67.5	0.0	7.6	7.8	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	30.0
759+24.82	TO	759+69.82	45.0	24.0	16.0	1,800.0	180.0	15.1	15.1	15.6	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	60.0
759+69.82	TO	766+42.80	673.0	24.0	16.0	26,919.2	2,691.9	226.1	226.1	233.3	0.0	0.0	0.0	747.8	0.0	0.0	0.0	0.0	0.0	897.3
766+42.80	TO	767+71.40	128.6	24.0	16.0	3,858.0	385.8	43.2	43.2	44.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	171.5
767+71.40	TO	777+20.23	948.8	24.0	16.0	28,464.9	2,846.5	318.8	318.8	328.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,265.1
777+20.23	TO	780+00.00	279.8	24.0	16.0	11,190.8	1,119.1	94.0	94.0	97.0	0.0	0.0	0.0	310.9	0.0	0.0	0.0	0.0	0.0	373.0
780+00.00	TO	782+50.00	250.0	24.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	333.3
WB MAINLINE																				
675+54.00	TO	728+27.67	5,273.7	24.0	16.0	210,946.8	21,094.7	1,772.0	1,772.0	1,828.2	0.0	0.0	0.0	5,859.6	0.0	0.0	0.0	0.0	0.0	7,031.6
728+27.67	TO	728+72.67	45.0	24.0	16.0	1,800.0	180.0	15.1	15.1	15.6	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0
728+72.67	TO	729+32.67	60.0	24.0	16.0	2,400.0	180.0	0.0	20.2	20.8	0.0	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
729+32.67	TO	729+40.17	7.5	24.0	16.0	300.0	22.5	0.0	0.0	2.6	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
729+40.17	TO	731+26.26	186.1	24.0	16.0	7,443.6	372.2	0.0	0.0	64.5	0.0	206.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	248.1
731+26.26	TO	731+33.76	7.5	24.0	16.0	300.0	22.5	0.0	2.5	2.6	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
731+33.76	TO	731+93.76	60.0	24.0	16.0	2,400.0	180.0	20.2	20.2	20.8	0.0	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
731+93.76	TO	732+38.76	45.0	24.0	16.0	1,800.0	135.0	15.1	15.1	15.6	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0
732+38.76	TO	738+67.51	628.8	24.0	16.0	25,150.0	2,515.0	211.3	211.3	218.0	0.0	0.0	0.0	698.6	0.0	0.0	0.0	0.0	0.0	838.3
738+67.51	TO	748+19.25	951.7	24.0	16.0	28,552.2	2,855.2	319.8	319.8	329.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,269.0
748+19.25	TO	749+44.58	125.3	24.0	16.0	3,759.9	376.0	42.1	42.1	43.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	167.1

• (18, 12-49)RS-3, (12-49, HB-2)BR

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11084EBIDINTEG.illinois.gov\PIWIDOTDocuments\DOT Offices\District 7\Projects\74689\Drawings\CAD\Sheets\74689-sht-sch.dgn		DRAWN	REVISED -		70	•	CLARK	70	18					
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE: N/A				SHEET 4 OF 10 SHEETS STA. TO STA.				CONTRACT NO. 74689	
	PLOT DATE = 3/25/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT									

PAVING SCHEDULE

STATION	TO	STATION	LENGTH FEET	PAVEMENT WIDTH FEET	SHOULDER WIDTH FEET	AREA SQ FT	BITUMINOUS MATERIALS (PRIME COAT) POUND	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 TON	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 TON	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 TON	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N90 TON	HOT-MIX ASPHALT SHOULDERS, 1 1/2" SQ YD	HOT-MIX ASPHALT SHOULDERS, 1 3/4" SQ YD	HOT-MIX ASPHALT SHOULDERS, 2" SQ YD	HOT-MIX ASPHALT SHOULDERS, 2 3/4" SQ YD	HOT-MIX ASPHALT SHOULDERS, 3 1/4" SQ YD	HOT-MIX ASPHALT SHOULDERS, 4 3/4" SQ YD	HOT-MIX ASPHALT SHOULDERS, 5 1/2" SQ YD	HOT-MIX ASPHALT SHOULDERS, 8" SQ YD	
WB MAINLINE																				
749+44.58	TO	754+69.39	524.8	24.0	16.0	20,992.4	2,099.2	176.3	176.3	181.9	0.0	0.0	0.0	583.1	0.0	0.0	0.0	0.0	0.0	699.7
754+69.39	TO	755+66.19	96.8	24.0	16.0	3,872.0	387.2	32.5	32.5	33.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	107.6	129.1
755+66.19	TO	755+80.46	14.3	24.0	16.0	570.8	57.1	4.8	4.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	19.0
755+80.46	TO	756+25.46	45.0	24.0	16.0	1,800.0	180.0	0.0	15.1	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	60.0
756+25.46	TO	756+85.46	60.0	24.0	16.0	2,400.0	240.0	0.0	20.2	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.7	80.0
756+85.46	TO	756+92.96	7.5	24.0	16.0	300.0	22.5	0.0	1.1	2.6	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	10.0
756+92.96	TO	759+30.49	237.5	24.0	16.0	9,501.2	475.1	0.0	0.0	82.3	0.0	0.0	263.9	0.0	0.0	0.0	0.0	0.0	0.0	316.7
759+30.49	TO	759+37.99	7.5	24.0	16.0	300.0	22.5	0.0	1.1	2.6	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	10.0
759+37.99	TO	759+97.99	60.0	24.0	16.0	2,400.0	240.0	20.2	20.2	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.7	0.0	80.0
759+97.99	TO	760+21.59	23.6	24.0	16.0	944.0	94.4	7.9	7.9	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.2	0.0	31.5
760+21.59	TO	760+42.99	21.4	24.0	16.0	856.0	85.6	7.2	7.2	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.8	0.0	28.5
760+42.99	TO	761+18.39	75.4	24.0	16.0	3,016.0	301.6	25.3	25.3	26.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.8	0.0	100.5
761+18.39	TO	770+72.08	953.7	24.0	16.0	38,147.6	3,814.8	320.4	320.4	330.6	0.0	0.0	0.0	1,059.7	0.0	0.0	0.0	0.0	0.0	1,271.6
770+72.08	TO	773+76.60	304.5	24.0	16.0	9,135.6	913.6	102.3	102.3	105.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	406.0
773+76.60	TO	777+34.94	358.3	24.0	16.0	10,750.2	1,075.0	120.4	120.4	124.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	477.8
777+34.94	TO	780+00.00	265.1	24.0	16.0	10,602.4	1,060.2	89.1	89.1	91.9	0.0	0.0	0.0	294.5	0.0	0.0	0.0	0.0	0.0	353.4
780+00.00	TO	785+50.00	550.0	24.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	733.3
SHEET TOTALS =							78,137	6,606	6,801	7,169	0	457	281	11,194	0	6,975	200	240	28,923	

PAVING SCHEDULE

STATION	TO	STATION	LENGTH FEET	PAVEMENT WIDTH FEET	SHOULDER WIDTH FEET	AREA SQ FT	BITUMINOUS MATERIALS (PRIME COAT) POUND	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N90 TON	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N90 TON	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 TON	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N90 TON	HOT-MIX ASPHALT SHOULDERS, 1 1/2" SQ YD	HOT-MIX ASPHALT SHOULDERS, 1 3/4" SQ YD	HOT-MIX ASPHALT SHOULDERS, 2" SQ YD	HOT-MIX ASPHALT SHOULDERS, 2" SQ YD	HOT-MIX ASPHALT SHOULDERS, 3 1/4" SQ YD	HOT-MIX ASPHALT SHOULDERS, 4 3/4" SQ YD	HOT-MIX ASPHALT SHOULDERS, 5 1/2" SQ YD	HOT-MIX ASPHALT SHOULDERS, 8" SQ YD	
FAI 70																				
RAMP A																				
100+00.47	TO	100+56.05	55.6	VARIABLE	VARIABLE	555.0	27.7	0.0	0.0	0.0	1.3	37.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100+56.05	TO	103+58.46	302.4	VARIABLE	6.0	5,419.8	271.0	0.0	0.0	0.0	33.6	201.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103+58.46	TO	106+62.87	304.4	16.0	6.0	6,697.0	334.9	0.0	0.0	0.0	45.5	202.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106+62.87	TO	107+82.87	120.0	16.0	14.0	3,600.0	180.0	0.0	0.0	0.0	17.9	186.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107+82.87	TO	117+18.83	936.0	16.0	14.0	28,078.8	1,403.9	0.0	0.0	0.0	139.8	1,455.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117+18.83	TO	118+35.00	116.2	VARIABLE	10.0	5,536.5	276.8	0.0	0.0	0.0	38.6	129.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RAMP B																				
200+34.16	TO	201+09.46	75.3	VARIABLE	14.0	3,379.8	169.0	0.0	0.0	0.0	20.4	117.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
201+09.46	TO	212+16.27	1,106.8	16.0	14.0	33,204.3	1,660.2	0.0	0.0	0.0	165.3	1,721.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
212+16.27	TO	212+21.27	5.0	16.0	14.0	150.0	7.5	0.0	0.0	0.0	0.7	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0
212+21.27	TO	212+46.57	25.3	16.0	14.0	759.0	37.9	0.0	0.0	0.0	4.4	0.0	0.0	39.4	0.0	0.0	0.0	0.0	0.0	0.0
212+46.57	TO	213+00.57	54.0	16.0	14.0	1,620.0	121.5	10.1	0.0	0.0	10.8	0.0	0.0	84.0	0.0	0.0	0.0	0.0	0.0	0.0
213+00.57	TO	213+36.27	35.7	16.0	14.0	1,071.0	107.1	13.3	0.0	0.0	7.1	0.0	0.0	55.5	0.0	0.0	0.0	0.0	0.0	0.0
213+36.27	TO	214+60.52	124.3	16.0	10.0	3,230.5	323.1	55.7	0.0	0.0	24.7	0.0	0.0	138.1	0.0	0.0	0.0	0.0	0.0	0.0
214+60.52	TO	222+59.12	798.6	VARIABLE	10.0	17,585.2	1,758.5	268.8	0.0	0.0	119.5	0.0	0.0	887.3	0.0	0.0	0.0	0.0	0.0	0.0
222+59.12	TO	224+10.47	151.4	VARIABLE	10.0	1,889.6	189.0	10.5	0.0	0.0	4.7	0.0	0.0	168.2	0.0	0.0	0.0	0.0	0.0	0.0
RAMP C																				
300+08.94	TO	300+64.19	55.3	VARIABLE	10.0	689.4	68.9	3.8	0.0	0.0	1.7	0.0	0.0	0.0	61.4	0.0	0.0	0.0	0.0	61.4
300+64.19	TO	305+38.49	474.3	VARIABLE	10.0	12,556.8	1,255.7	218.8	0.0	0.0	97.2	0.0	0.0	0.0	527.0	0.0	0.0	0.0	0.0	527.0
305+38.49	TO	306+71.34	132.8	VARIABLE	10.0	4,054.3	405.4	76.3	0.0	0.0	33.9	0.0	0.0	0.0	147.6	0.0	0.0	0.0	0.0	147.6
306+71.34	TO	307+16.34	45.0	16.0	14.0	1,350.0	135.0	16.8	0.0	0.0	9.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	50.0
307+16.34	TO	307+50.02	33.7	16.0	14.0	1,010.4	75.8	7.5	0.0	0.0	6.7	0.0	0.0	37.4	0.0	0.0	0.0	0.0	0.0	37.4
307+50.02	TO	307+83.84	33.8	16.0	14.0	1,014.6	76.1	5.9	0.0	0.0	6.7	52.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.6
307+83.84	TO	307+89.34	5.5	16.0	14.0	165.0	8.3	0.0	0.0	0.0	1.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
307+89.34	TO	308+28.84	39.5	16.0	14.0	1,185.0	59.3	0.0	0.0	0.0	6.9	61.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.9
308+28.84	TO	316+79.82	851.0	16.0	14.0	25,529.4	1,276.5	0.0	0.0	0.0	127.1	378.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	945.5
316+79.82	TO	317+94.84	115.0	VARIABLE	14.0	6,285.3	314.3	0.0	0.0	0.0	37.5	51.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	207.7
RAMP D																				
400+34.16	TO	401+09.46	75.3	VARIABLE	14.0	3,382.4	169.1	0.0	0.0	0.0	20.4	117.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401+09.46	TO	412+22.46	1,113.0	16.0	14.0	33,390.0	1,669.5	0.0	0.0	0.0	166.2	1,731.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
412+22.46	TO	413+34.96	112.5	16.0	14.0	3,375.0	168.8	0.0	0.0	0.0	16.8	175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
413+34.96	TO	414+59.55	124.6	16.0	10.0	3,239.3	162.0	0.0	0.0	0.0	18.6	138.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
414+59.55	TO	422+61.64	802.1	VARIABLE	10.0	17,624.7	881.2	0.0	0.0	0.0	89.6	891.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
422+61.64	TO	424+09.50	147.9	VARIABLE	10.0	1,849.7	92.5	0.0	0.0	0.0	3.5	164.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHEET TOTALS =							13,686.3	687.6	0.0	0.0	1,277.0	7,821.5	0.0	1,467.6	736.0	0.0	0.0	0.0	0.0	2,064.2
PROJECT TOTALS =							91,823.6	7,293.3	6,801.2	7,169.4	1,277.0	8,278.2	280.6	12,661.6	736.0	6,975.3	200.4	240.1	30,986.9	

*(18,12-49)RS-3,(12-49,HB-2)BR

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 7\Projects\74689\Drawings\CAD\Drawings\74689-sht-sch.dgn	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -						70	*	CLARK	70	20
Default	PLOT DATE = 3/25/2015	DATE -	REVISED -		SCALE: N/A SHEET 6 OF 10 SHEETS STA. TO STA.				CONTRACT NO. 74689				
											ILLINOIS FED. AID PROJECT		

PAVEMENT MARKING SCHEDULE

STATION	TO	STATION	LENGTH FEET	PAVEMENT WIDTH FEET	SHOULDER WIDTH FEET	AREA SQ FT	PAVEMENT MARKING BLACKOUT TAPE, 5" FOOT	PAVEMENT MARKING BLACKOUT TAPE, 7" FOOT	SHORT-TERM PAVEMENT MARKING FOOT	TEMPORARY PAVEMENT MARKING LINE-4" (YELLOW) FOOT	TEMPORARY PAVEMENT MARKING LINE-4" (WHITE) FOOT	TEMPORARY PAVEMENT MARKING LINE-4" (WHITE DOTTED) FOOT	TEMPORARY PAVEMENT MARKING LINE-8" (WHITE) FOOT	TEMPORARY PAVEMENT MARKING LINE-12" (WHITE) FOOT	TEMPORARY PAVEMENT MARKING LINE-24" (WHITE) FOOT	WORKZONE PAVEMENT MARKING REMOVAL SQ FT	THERMOPLASTIC PAVEMENT MARKING LINE-4" (YELLOW) FOOT	THERMOPLASTIC PAVEMENT MARKING LINE-4" (WHITE) FOOT	THERMOPLASTIC PAVEMENT MARKING LINE-4" (WHITE DOTTED) FOOT	THERMOPLASTIC PAVEMENT MARKING LINE-8" (WHITE) FOOT	THERMOPLASTIC PAVEMENT MARKING LINE-12" (WHITE) FOOT	THERMOPLASTIC PAVEMENT MARKING LINE-24" (WHITE) FOOT	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B-INLAID-LINE 6" FOOT	RAISED REFLECTIVE PAVEMENT MARKERS (CRYSTAL) EACH	RAISED REFLECTIVE PAVEMENT MARKERS (AMBER) EACH		
WB MAINLINE																											
754+69.39	TO	755+66.19	96.8	24.0	16.0	3,872.0	0.0	0.0	7.7	96.8	96.8	0.0	0.0	0.0	0.0	67.1	96.8	96.8	0.0	0.0	0.0	0.0	24.2	2.4	0.0		
755+66.19	TO	755+80.46	14.3	24.0	16.0	570.8	0.0	0.0	1.1	14.3	14.3	0.0	0.0	0.0	0.0	9.9	14.3	14.3	0.0	0.0	0.0	0.0	3.6	0.4	0.0		
755+80.46	TO	756+25.46	45.0	24.0	16.0	1,800.0	0.0	0.0	3.6	45.0	45.0	0.0	0.0	0.0	0.0	31.2	45.0	45.0	0.0	0.0	0.0	0.0	11.3	1.1	0.0		
756+25.46	TO	756+85.46	60.0	24.0	16.0	2,400.0	0.0	0.0	4.8	60.0	60.0	0.0	0.0	0.0	0.0	41.6	60.0	60.0	0.0	0.0	0.0	0.0	15.0	1.5	0.0		
756+85.46	TO	756+92.96	7.5	24.0	16.0	300.0	0.0	0.0	0.6	7.5	7.5	0.0	0.0	0.0	0.0	5.2	7.5	7.5	0.0	0.0	0.0	0.0	1.9	0.2	0.0		
756+92.96	TO	759+30.49	237.5	24.0	16.0	9,501.2	0.0	0.0	19.0	237.5	237.5	0.0	0.0	0.0	0.0	164.7	237.5	237.5	0.0	0.0	0.0	0.0	59.4	5.9	0.0		
759+30.49	TO	759+37.99	7.5	24.0	16.0	300.0	0.0	0.0	0.6	7.5	7.5	0.0	0.0	0.0	0.0	5.2	7.5	7.5	0.0	0.0	0.0	0.0	1.9	0.2	0.0		
759+37.99	TO	759+97.99	60.0	24.0	16.0	2,400.0	0.0	0.0	4.8	60.0	60.0	0.0	0.0	0.0	0.0	41.6	60.0	60.0	0.0	0.0	0.0	0.0	15.0	1.5	0.0		
759+97.99	TO	760+21.59	23.6	24.0	16.0	944.0	0.0	0.0	1.9	23.6	23.6	0.0	0.0	0.0	0.0	16.4	23.6	23.6	0.0	0.0	0.0	0.0	5.9	0.6	0.0		
760+21.59	TO	760+42.99	21.4	24.0	16.0	856.0	0.0	0.0	1.7	21.4	21.4	0.0	0.0	0.0	0.0	14.8	21.4	21.4	0.0	0.0	0.0	0.0	5.4	0.5	0.0		
760+42.99	TO	761+18.39	75.4	24.0	16.0	3,016.0	0.0	0.0	6.0	75.4	75.4	0.0	0.0	0.0	0.0	52.3	75.4	75.4	0.0	0.0	0.0	0.0	18.8	1.9	0.0		
761+18.39	TO	770+72.08	953.7	24.0	16.0	38,147.6	0.0	0.0	76.3	953.7	953.7	0.0	0.0	0.0	0.0	661.2	953.7	953.7	0.0	0.0	0.0	0.0	238.4	23.8	0.0		
770+72.08	TO	773+76.60	304.5	24.0	16.0	9,135.6	0.0	0.0	12.2	304.5	0.0	0.0	304.5	0.0	0.0	308.6	304.5	0.0	0.0	304.5	0.0	0.0	76.1	7.6	0.0		
773+76.60	TO	777+34.94	358.3	24.0	16.0	10,750.2	0.0	0.0	14.3	358.3	0.0	265.5	92.9	0.0	0.0	274.6	358.3	0.0	265.5	92.9	0.0	0.0	89.6	9.0	0.0		
777+34.94	TO	780+00.00	265.1	24.0	16.0	10,602.4	0.0	0.0	21.2	265.1	265.1	0.0	0.0	0.0	0.0	183.8	265.1	265.1	0.0	0.0	0.0	0.0	66.3	6.6	0.0		
780+00.00	TO	785+50.00	550.0	24.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	550.0	550.0	0.0	0.0	0.0	0.0	137.5	13.8	0.0		
SHEET TOTALS =							6,000	750	1,532	20,892	17,412	1,933	1,547	0	0	17,891	21,692	18,212	1,933	1,547	0	0	5,423	542	0		

•(18,12-49)RS-3,(12-49,HB-2)BR

PAVEMENT MARKING SCHEDULE

STATION	TO	STATION	LENGTH FEET	PAVEMENT WIDTH FEET	SHOULDER WIDTH FEET	AREA SQ FT	PAVEMENT MARKING BLACKOUT TAPE, 5" FOOT	PAVEMENT MARKING BLACKOUT TAPE, 7" FOOT	SHORT-TERM PAVEMENT MARKING FOOT	TEMPORARY PAVEMENT MARKING LINE-4" (YELLOW) FOOT	TEMPORARY PAVEMENT MARKING LINE-4" (WHITE) FOOT	TEMPORARY PAVEMENT MARKING LINE-4" (WHITE DOTTED) FOOT	TEMPORARY PAVEMENT MARKING LINE-8" (WHITE) FOOT	TEMPORARY PAVEMENT MARKING LINE-12" (WHITE) FOOT	TEMPORARY PAVEMENT MARKING LINE-24" (WHITE) FOOT	WORKZONE PAVEMENT MARKING REMOVAL SQ FT	THERMOPLASTIC PAVEMENT MARKING LINE-4" (YELLOW) FOOT	THERMOPLASTIC PAVEMENT MARKING LINE-4" (WHITE) FOOT	THERMOPLASTIC PAVEMENT MARKING LINE-4" (WHITE DOTTED) FOOT	THERMOPLASTIC PAVEMENT MARKING LINE-8" (WHITE) FOOT	THERMOPLASTIC PAVEMENT MARKING LINE-12" (WHITE) FOOT	THERMOPLASTIC PAVEMENT MARKING LINE-24" (WHITE) FOOT	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B-INLAID-LINE 6" FOOT	RAISED REFLECTIVE PAVEMENT MARKERS (CRYSTAL) EACH	RAISED REFLECTIVE PAVEMENT MARKERS (AMBER) EACH	
RAMP A																										
100+00.47	TO	100+56.05	55.6	VARIABLE	VARIABLE	555.0	0.0	0.0	27.7	0.0	55.6	0.0	0.0	0.0	0.0	19.3	0.0	55.6	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
100+56.05	TO	103+58.46	302.4	VARIABLE	6.0	5,419.8	0.0	0.0	271.0	0.0	302.4	0.0	0.0	0.0	0.0	104.8	0.0	302.4	0.0	0.0	0.0	0.0	0.0	0.0	21.0	0.0
103+58.46	TO	106+62.87	304.4	16.0	6.0	6,697.0	0.0	0.0	334.9	0.0	304.4	0.0	0.0	0.0	0.0	105.5	0.0	304.4	0.0	0.0	0.0	0.0	0.0	0.0	32.0	0.0
106+62.87			120.0	16.0	14.0	3,600.0	0.0	0.0	180.0	120.0	120.0	0.0	0.0	0.0	0.0	81.6	120.0	120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0
107+82.87	TO	117+18.83	936.0	16.0	14.0	28,078.8	0.0	0.0	1,403.9	936.0	936.0	0.0	0.0	0.0	0.0	636.4	936.0	936.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117+18.83	TO	118+35.00	116.2	VARIABLE	10.0	5,536.5	0.0	0.0	276.8	117.8	178.9	0.0	164.1	83.6	32.0	357.4	117.8	178.9	0.0	164.1	83.6	32.0	0.0	0.0	0.0	
RAMP B																										
200+34.16	TO	201+09.46	75.3	VARIABLE	14.0	3,379.8	0.0	0.0	169.0	74.2	132.0	0.0	0.0	0.0	0.0	69.7	74.2	132.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
201+09.46	TO	212+16.27	1,106.8	16.0	14.0	33,204.3	0.0	0.0	1,660.2	1,106.8	1,106.8	0.0	0.0	0.0	0.0	752.6	1,106.8	1,106.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
212+16.27	TO	212+21.27	5.0	16.0	14.0	150.0	0.0	0.0	7.5	5.0	5.0	0.0	0.0	0.0	0.0	3.4	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
212+21.27	TO	212+46.57	25.3	16.0	14.0	759.0	0.0	0.0	37.9	25.3	25.3	0.0	0.0	0.0	0.0	17.2	25.3	25.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
212+46.57	TO	213+00.57	54.0	16.0	14.0	1,620.0	0.0	0.0	121.5	54.0	54.0	0.0	0.0	0.0	0.0	36.7	54.0	54.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
213+00.57	TO	213+36.27	35.7	16.0	14.0	1,071.0	0.0	0.0	107.1	35.7	35.7	0.0	0.0	0.0	0.0	24.3	35.7	35.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
213+36.27	TO	214+60.52	124.3	16.0	10.0	3,230.5	0.0	0.0	323.1	0.0	124.3	0.0	0.0	0.0	0.0	43.1	0.0	124.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
214+60.52	TO	222+59.12	798.6	VARIABLE	10.0	17,585.2	0.0	0.0	1,758.5	0.0	798.6	0.0	0.0	0.0	0.0	276.8	0.0	798.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
222+59.12	TO	224+10.47	151.4	VARIABLE	10.0	1,889.6	0.0	0.0	189.0	0.0	151.4	0.0	0.0	0.0	0.0	52.5	0.0	151.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RAMP C																										
300+08.94	TO	300+64.19	55.3	VARIABLE	10.0	689.4	0.0	0.0	68.9	0.0	55.3	0.0	0.0	0.0	0.0	19.2	0.0	55.3	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
300+64.19	TO	305+38.49	474.3	VARIABLE	10.0	12,556.8	0.0	0.0	1,255.7	0.0	474.3	0.0	0.0	0.0	0.0	164.4	0.0	474.3	0.0	0.0	0.0	0.0	0.0	0.0	36.0	0.0
305+38.49	TO	306+71.34	132.8	VARIABLE	10.0	4,054.3	0.0	0.0	405.4	0.0	132.8	0.0	0.0	0.0	0.0	46.1	0.0	132.8	0.0	0.0	0.0	0.0	0.0	0.0	13.0	0.0
306+71.34	TO	307+16.34	45.0	16.0	14.0	1,350.0	0.0	0.0	135.0	45.0	45.0	0.0	0.0	0.0	0.0	30.6	45.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307+16.34	TO	307+50.02	33.7	16.0	14.0	1,010.4	0.0	0.0	75.8	33.7	33.7	0.0	0.0	0.0	0.0	22.9	33.7	33.7	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
307+50.02	TO	307+83.84	33.8	16.0	14.0	1,014.6	0.0	0.0	76.1	33.8	33.8	0.0	0.0	0.0	0.0	23.0	33.8	33.8	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
307+83.84	TO	307+89.34	5.5	16.0	14.0	165.0	0.0	0.0	8.3	5.5	5.5	0.0	0.0	0.0	0.0	3.7	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307+89.34	TO	308+28.84	39.5	16.0	14.0	1,185.0	0.0	0.0	59.3	39.5	39.5	0.0	0.0	0.0	0.0	26.9	39.5	39.5	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
308+28.84	TO	316+79.82	851.0	16.0	14.0	25,529.4	0.0	0.0	1,276.5	851.0	851.0	0.0	0.0	0.0	0.0	578.6	851.0	851.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0
316+79.82	TO	317+94.84	115.0	VARIABLE	14.0	6,285.3	0.0	0.0	314.3	110.0	190.2	0.0	151.5	76.6	32.0	343.2	110.0	190.2	0.0	151.5	76.6	32.0	0.0	0.0	0.0	
RAMP D																										
400+34.16	TO	401+09.46	75.3	VARIABLE	14.0	3,382.4	0.0	0.0	169.1	73.9	132.0	0.0	0.0	0.0	0.0	69.6	73.9	132.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401+09.46	TO	412+22.46	1,113.0	16.0	14.0	33,390.0	0.0	0.0	1,669.5	1,113.0	1,113.0	0.0	0.0	0.0	0.0	756.8	1,113.0	1,113.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
412+22.46	TO	413+34.96	112.5	16.0	14.0	3,375.0	0.0	0.0	168.8	112.5	112.5	0.0	0.0	0.0	0.0	76.5	112.5	112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
413+34.96	TO	414+59.55	124.6	16.0	10.0	3,239.3	0.0	0.0	162.0	0.0	124.6	0.0	0.0	0.0	0.0	43.2	0.0	124.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
414+59.55	TO	422+61.64	802.1	VARIABLE	10.0	17,624.7	0.0	0.0	881.2	0.0	802.1	0.0	0.0	0.0	0.0	278.0	0.0	802.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
422+61.64	TO	424+09.50	147.9	VARIABLE	10.0	1,849.7	0.0	0.0	92.5	0.0	147.9	0.0	0.0	0.0	0.0	51.3	0.0	147.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHEET TOTALS =							0	0	12,713	4,893	7,673	0	316	160	64	4,786	4,893	7,673	0	316	160	64	0	108	25	
PROJECT TOTALS =							6,000	750	14,245	25,785	25,086	1,933	1,863	160	64	22,677	26,585	25,886	1,933	1,863	160	64	5,423	650	25	

*(18,12-49)RS-3,(12-49,HB-2)BR

FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\11084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 7\Projects\74689\DRAWING\CAD\Sheets\D774689-sht-sch.dgn		CHECKED -	REVISED -		70	*	CLARK	70	23					
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		SCALE: N/A				SHEET 9 OF 10 SHEETS STA. TO STA.				CONTRACT NO. 74689	
	PLOT DATE = 3/25/2015												ILLINOIS FED. AID PROJECT	

PATCHING SCHEDULE

LOCATION	CLASS A PATCHES, TYPE I, 15"	CLASS A PATCHES, TYPE II, 15"	CLASS A PATCHES, TYPE III, 15"	CLASS A PATCHES, TYPE IV, 15"	CLASS B PATCHES, TYPE I, 13"	CLASS B PATCHES, TYPE II, 17"	SAW CUTS	PATCHING REINFORCEMENT	TIE BARS 3/4"	DOWEL BARS, 1 1/2"
	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	FOOT	SQ YD	EACH	EACH
FAP 116 (IL 130)	32	297	269	407	278	96	6,054	1,005	266	980

•(18, 12-49)RS-3, (12-49, HB-2) BR

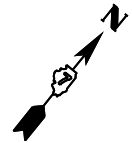
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/25/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

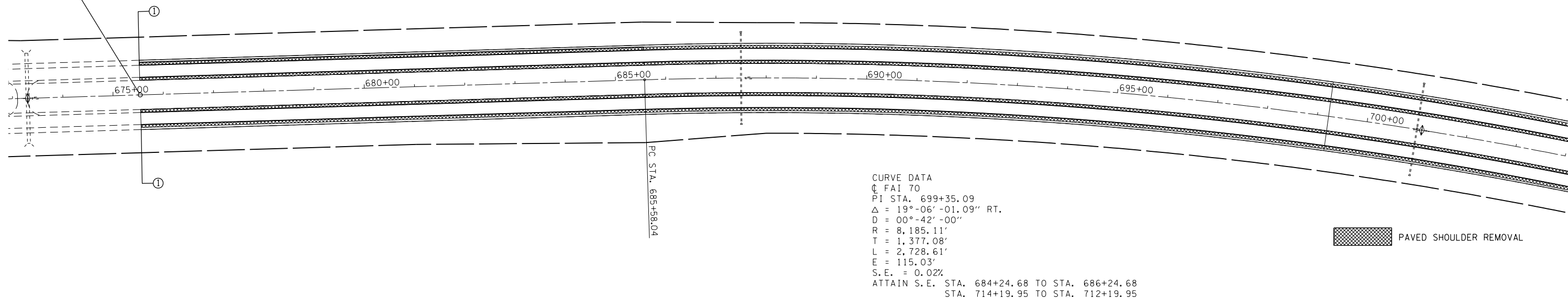
SCHEDULE OF QUANTITIES

SCALE: N/A SHEET 10 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	CLARK	70	24
CONTRACT NO. 74689				
ILLINOIS FED. AID PROJECT				

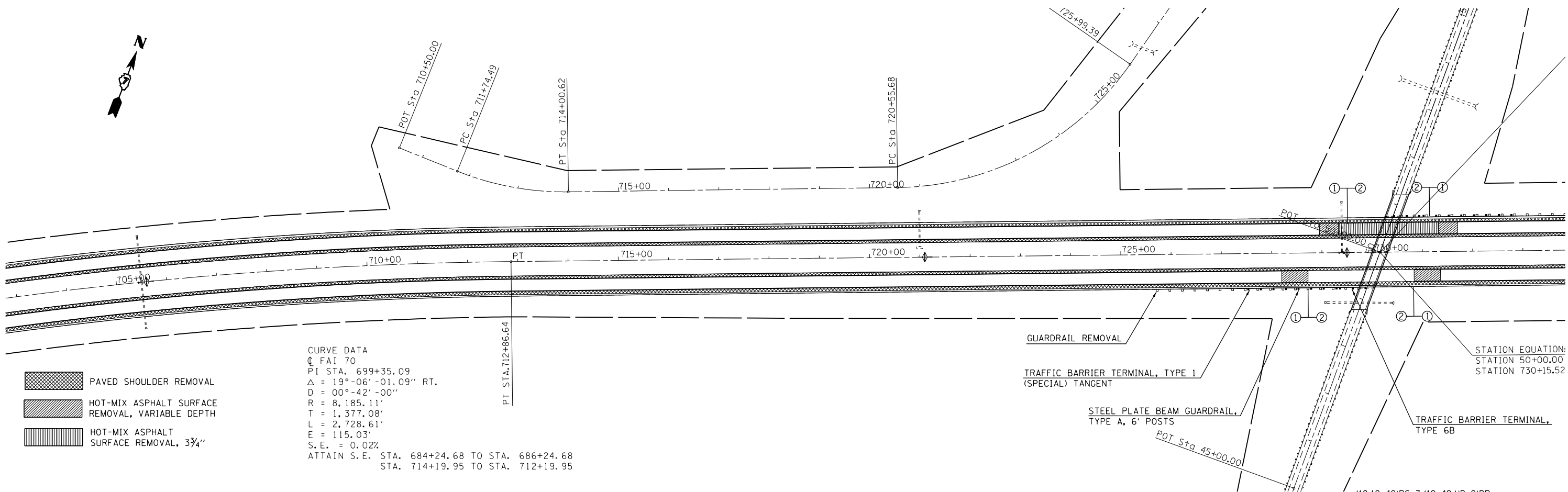


PROJECT BEGINS:
STA. 675+54.00



CURVE DATA
 C FAI 70
 PI STA. 699+35.09
 $\Delta = 19^\circ-06'-01.09''$ RT.
 $D = 00^\circ-42'-00''$
 $R = 8,185.11'$
 $T = 1,377.08'$
 $L = 2,728.61'$
 $E = 115.03'$
 $S.E. = 0.02\%$
 ATTAIN S.E. STA. 684+24.68 TO STA. 686+24.68
 STA. 714+19.95 TO STA. 712+19.95

PAVED SHOULDER REMOVAL



CURVE DATA
 C FAI 70
 PI STA. 699+35.09
 $\Delta = 19^\circ-06'-01.09''$ RT.
 $D = 00^\circ-42'-00''$
 $R = 8,185.11'$
 $T = 1,377.08'$
 $L = 2,728.61'$
 $E = 115.03'$
 $S.E. = 0.02\%$
 ATTAIN S.E. STA. 684+24.68 TO STA. 686+24.68
 STA. 714+19.95 TO STA. 712+19.95

PAVED SHOULDER REMOVAL
 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
 HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"

GUARDRAIL REMOVAL
 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
 POT Sta 45+00.00
 TRAFFIC BARRIER TERMINAL, TYPE 6B
 STATION EQUATION:
 STATION 50+00.00
 STATION 730+15.52

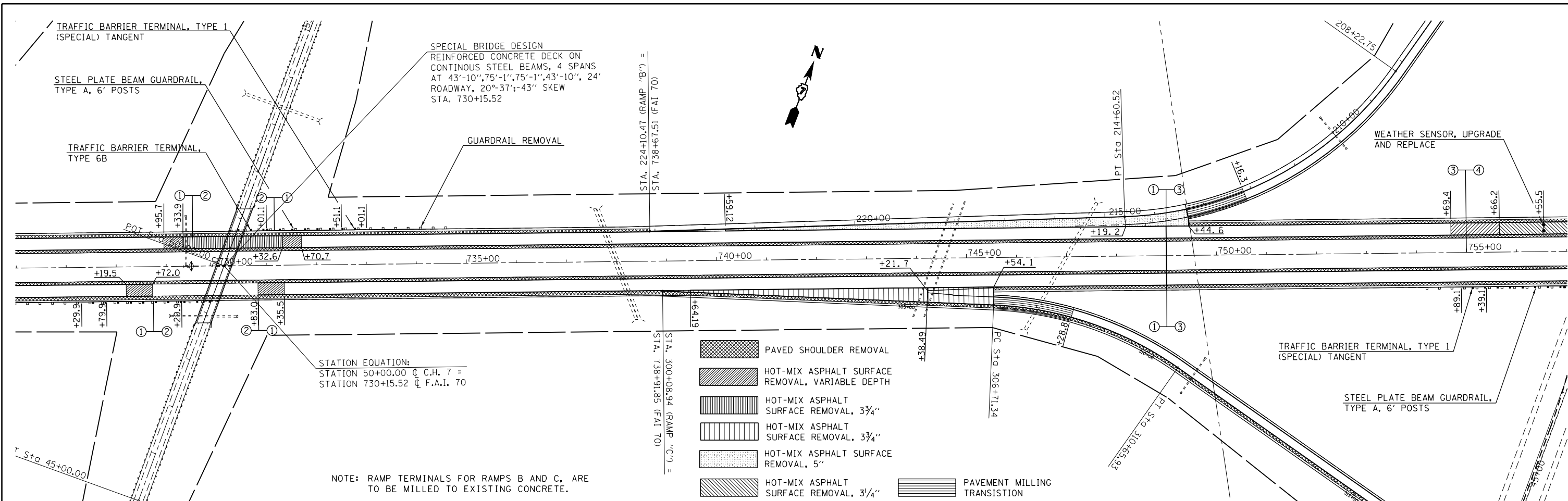
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74689\Drawings\CAD\Sheets\0774689-sht-plan.dgn		REVISION	REVISION
	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 3/25/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSTATE PLAN
(MAINLINE)**

SCALE: 100 SHEET 1 OF 3 SHEETS STA. 673+00 TO STA. 733+00

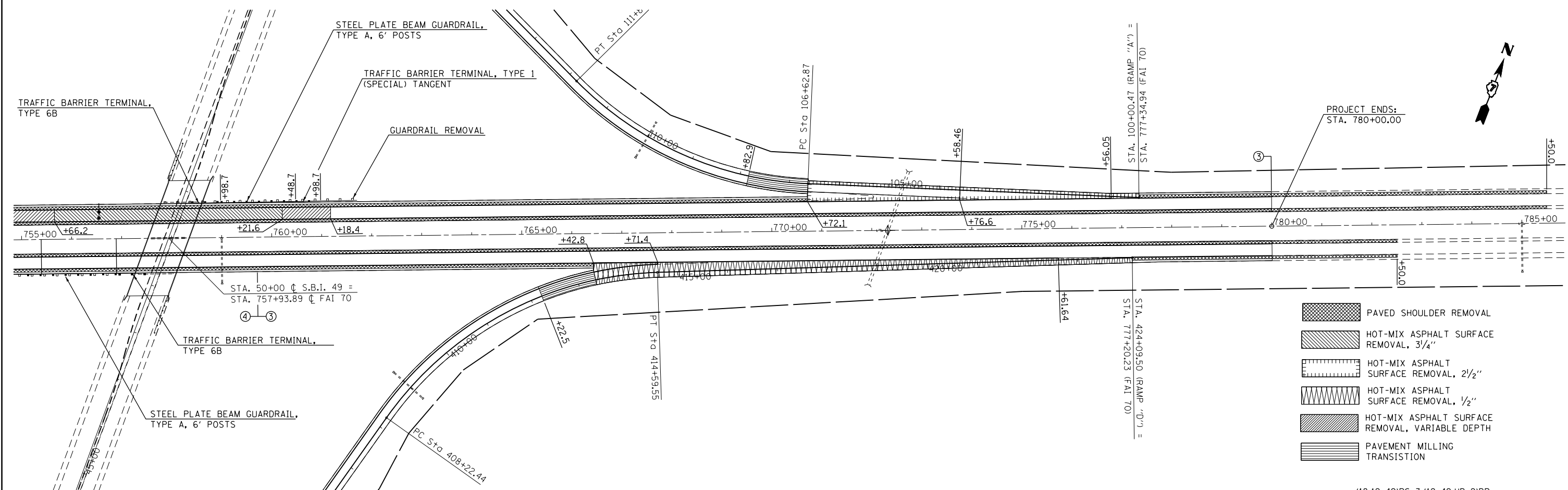
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70			70	25
CONTRACT NO. 74689				
ILLINOIS FED. AID PROJECT				



STATION EQUATION:
 STATION 50+00.00 @ C.H. 7 =
 STATION 730+15.52 @ F.A.I. 70

NOTE: RAMP TERMINALS FOR RAMP B AND C ARE TO BE MILLED TO EXISTING CONCRETE.

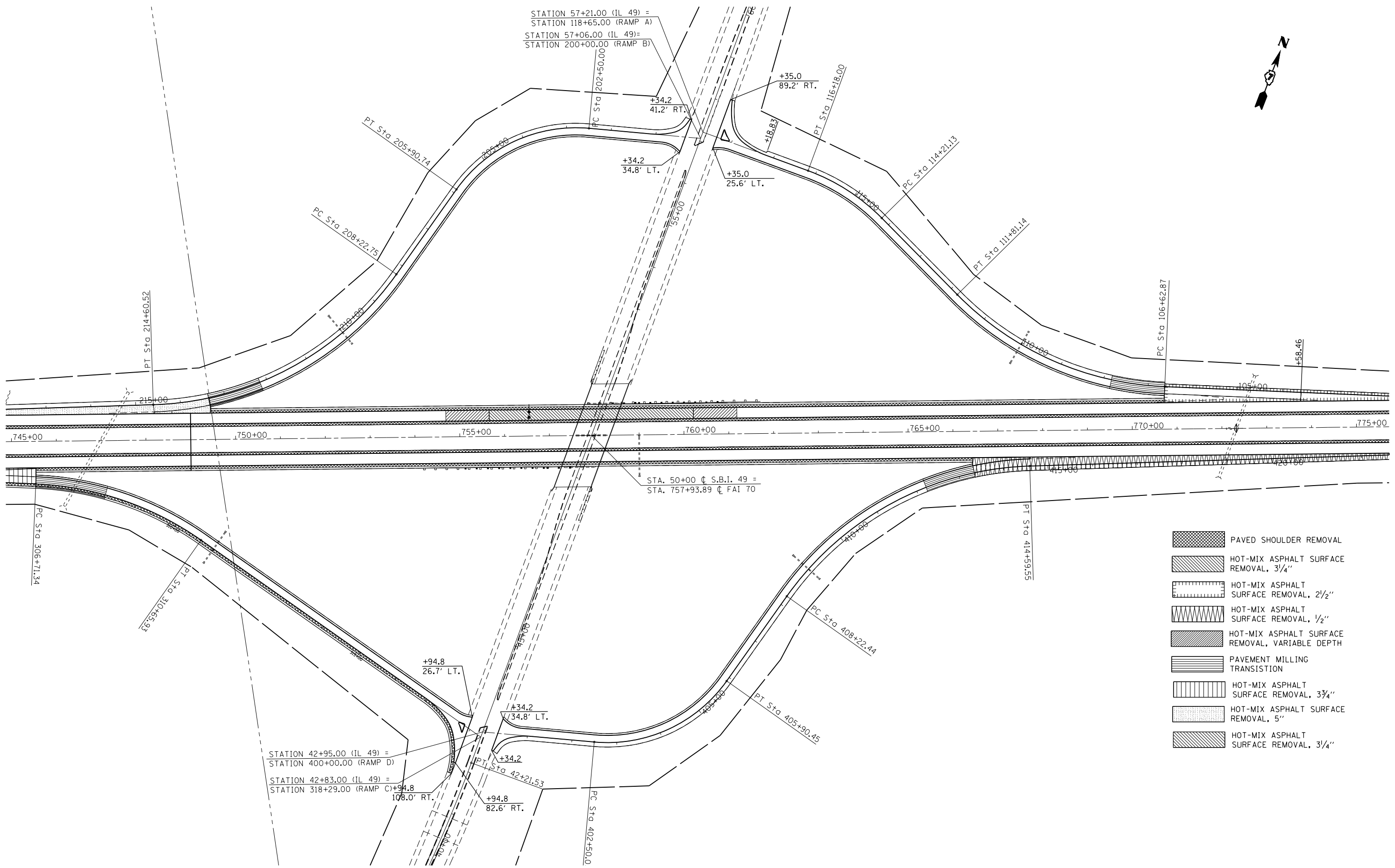
- PAVED SHOULDER REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"
- HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"
- HOT-MIX ASPHALT SURFACE REMOVAL, 5"
- HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4"
- PAVEMENT MILLING TRANSITION



STA. 50+00 @ S.B.I. 49 =
 STA. 757+93.89 @ FAI 70

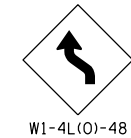
- PAVED SHOULDER REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4"
- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- PAVEMENT MILLING TRANSITION

FILE NAME =		USER NAME = steffenmk		DESIGNED -		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		INTERSTATE PLAN (MAINLINE)		F.A.I. RTE. 70		SECTION .		COUNTY CLARK		TOTAL SHEETS 70		SHEET NO. 26	
PLOT SCALE = 200.0000' / in.		CHECKED -		REVISED -		REVISED -						CONTRACT NO. 74689									
PLOT DATE = 3/25/2015		DATE -		REVISED -		REVISED -						ILLINOIS FED. AID PROJECT									
Default												(18,12-49)RS-3,(12-49,HB-2)BR									
								SCALE: 100		SHEET 2 OF 3 SHEETS		STA. 726+00 TO STA. 785+00									

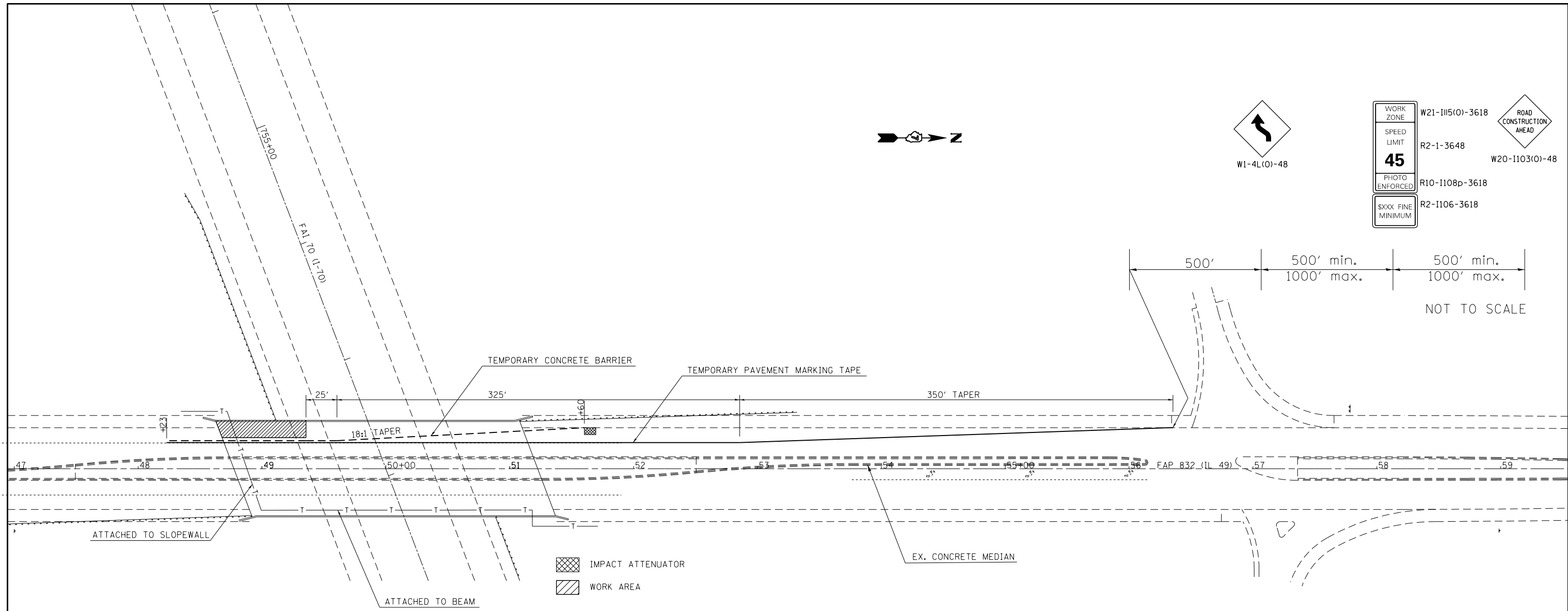
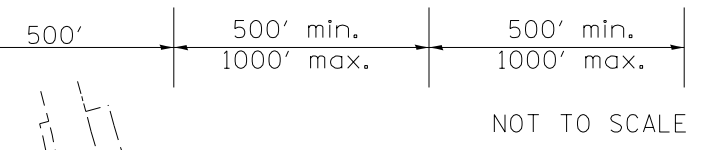


- PAVED SHOULDER REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"
- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- PAVEMENT MILLING TRANSITION
- HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"
- HOT-MIX ASPHALT SURFACE REMOVAL, 5"
- HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"

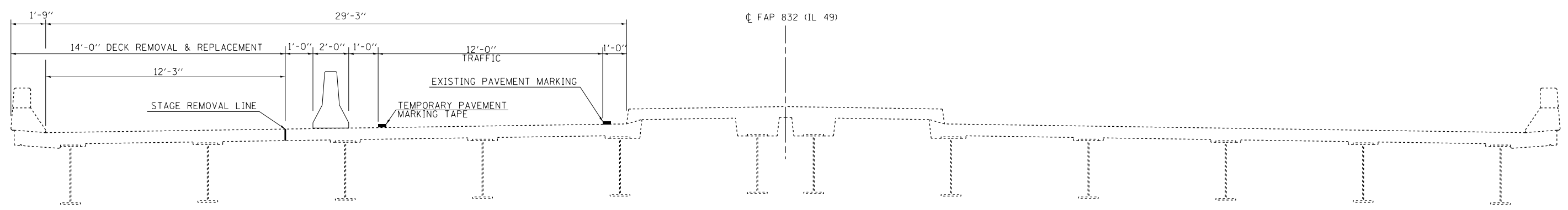
FILE NAME = USER NAME = steffennk DESIGNED - REVISED - CHECKED - DATE -				DRAWN - REVISED - REVISED - REVISED -				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				INTERSTATE PLAN (RTE. 49 RAMPS)				F.A.I. RTE. 70 SECTION COUNTY CLARK		TOTAL SHEETS 70 SHEET NO. 27	
PLOT SCALE = 200.0000' / in. PLOT DATE = 3/25/2015				STA. 745+00 TO STA. 775+00				SCALE: 100 SHEET 3 OF 3 SHEETS				CONTRACT NO. 74689 ILLINOIS FED. AID PROJECT							



WORK ZONE	W21-III5(0)-3618	ROAD CONSTRUCTION AHEAD
SPEED LIMIT	R2-1-3648	W20-1103(0)-48
45		
PHOTO ENFORCED	R10-1108p-3618	
SXXX FINE MINIMUM	R2-1106-3618	



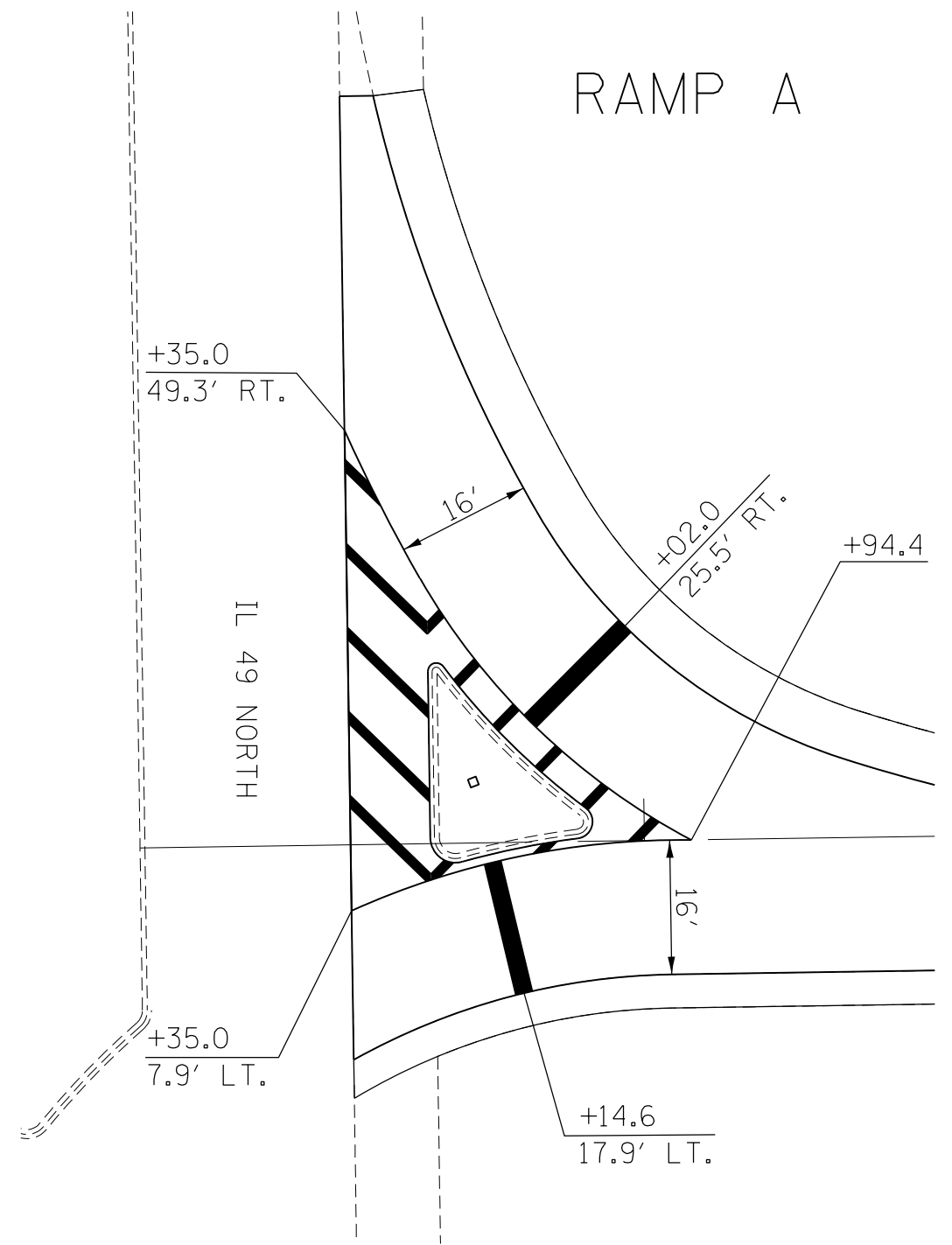
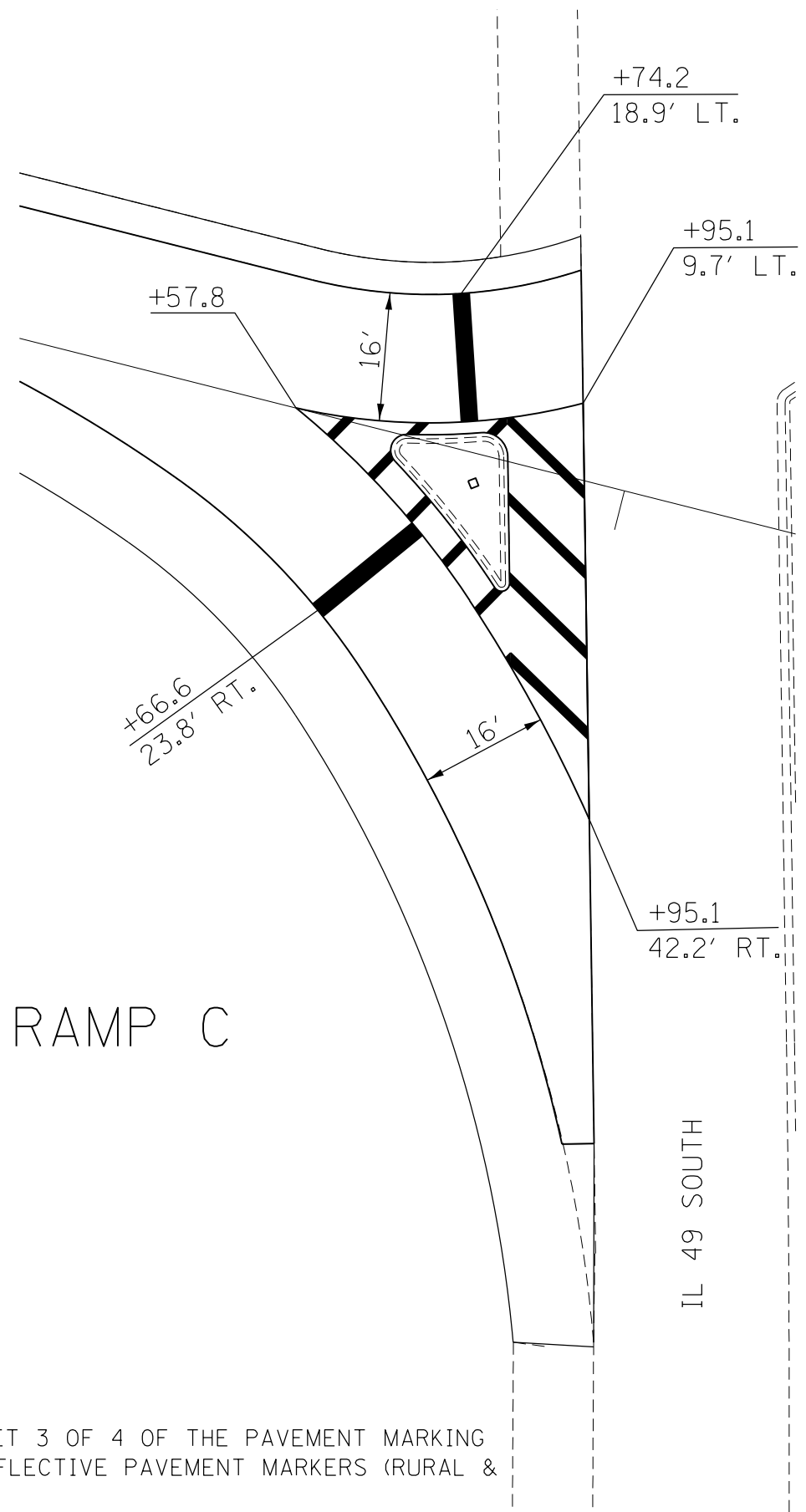
NOTE: SEE HIGHWAY STANDARD 701423 FOR DETAILS NOT SHOWN IN THE TAPER AND ON THE BRIDGE.



LOOKING NORTH

•(18,12-49)RS-3,(12-49,HB-2)BR

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\7468\Drawings\CAD\Sheets\0774714-sht-details.dwg		DRAWN -	REVISED -		SN 012-0048				70	•	CLARK	70	28
Default	PLOT SCALE = 80.0000' / in.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 74689				
	PLOT DATE = 3/25/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



NOTE: SEE SHEET 3 OF 4 OF THE PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN)

•(18,12-49)RS-3,(12-49,HB-2)BR

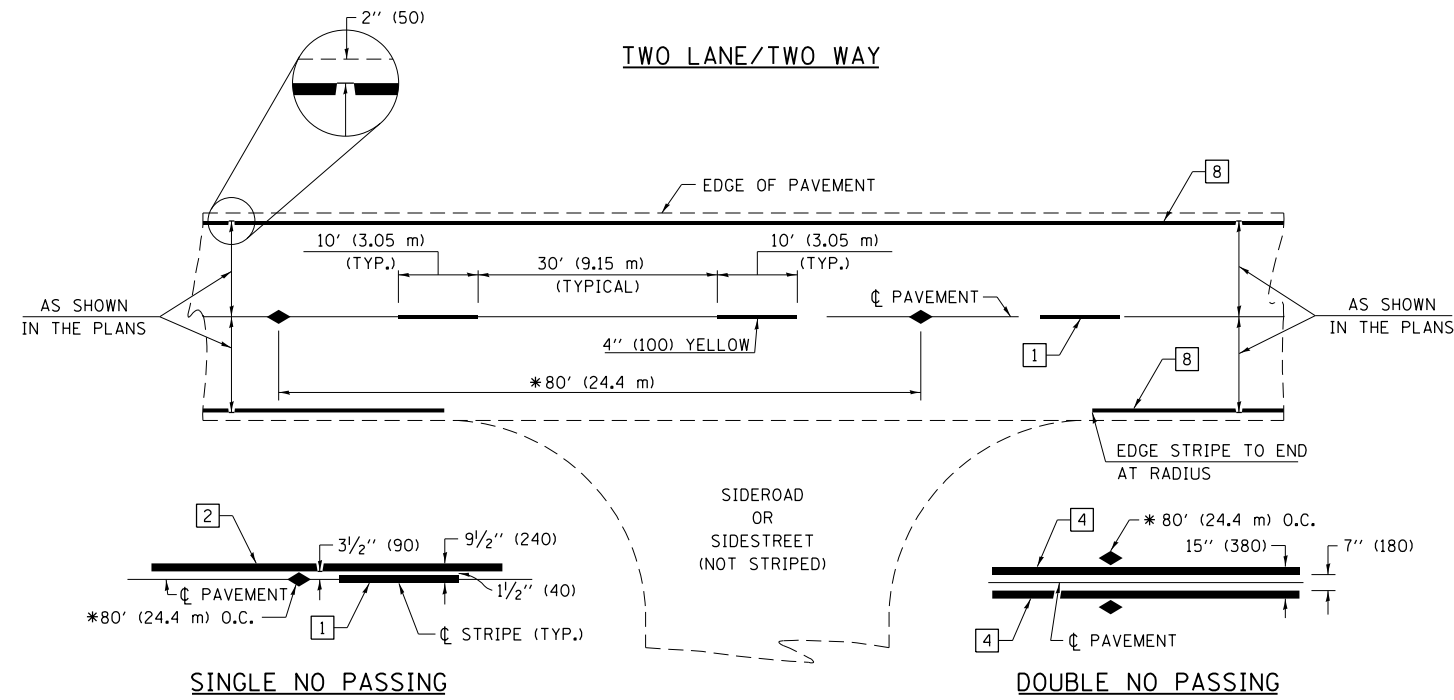
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Default	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/25/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAMP A & C
ISLAND STRIPING DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

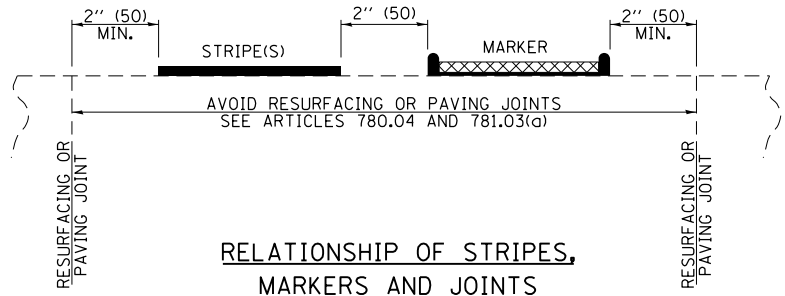
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	CLARK	70	29
CONTRACT NO. 74689				
ILLINOIS FED. AID PROJECT				



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

PAVEMENT MARKING LEGEND

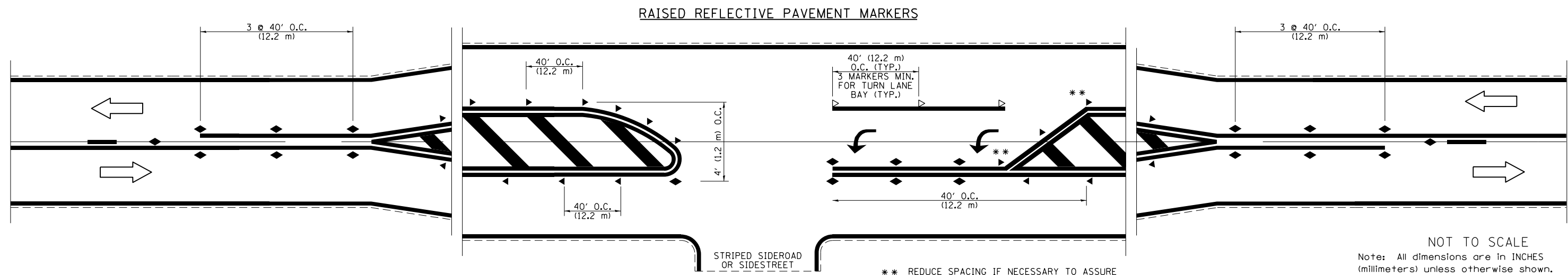
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS

TYPICAL PAVEMENT MARKERS LEGEND

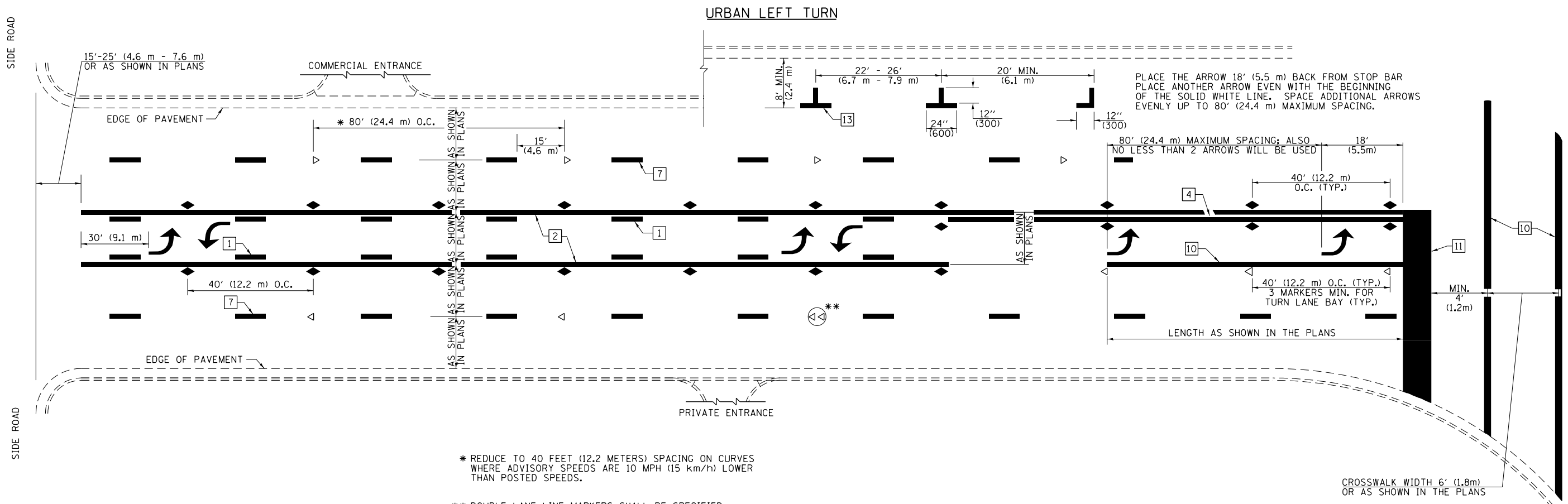
- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER



** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

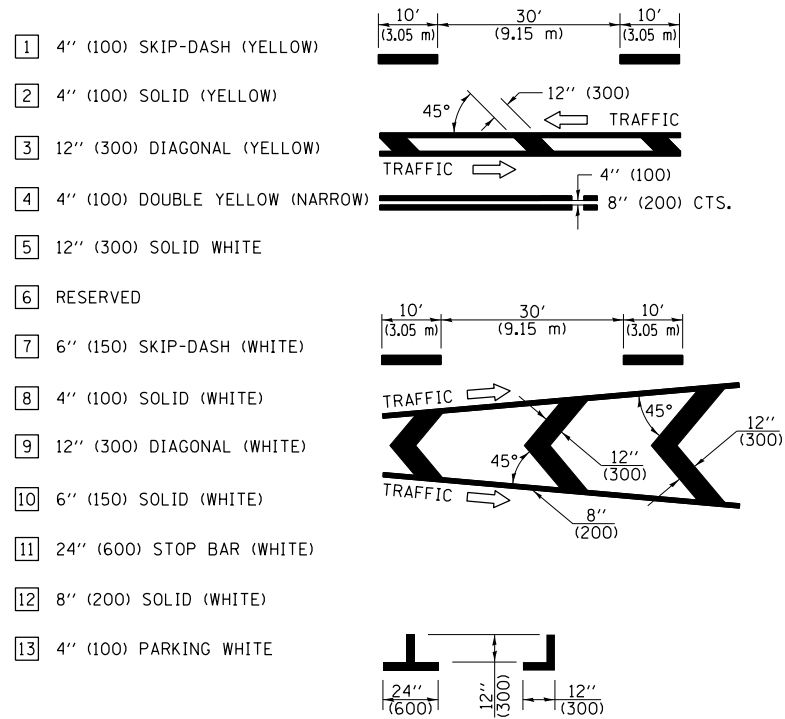
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74689\Drawings\CABsheets\0774689-shd-details.dwg	DATE = 3/25/2015	CHECKED -	REVISED -			70	.	CLARK	70	30	
PLOT SCALE = 200.0000' / in.	DATE -	REVISOR -	REVISOR -			CONTRACT NO. 74689					
PLOT DATE = 3/25/2015	DATE -	REVISOR -	REVISOR -			ILLINOIS FED. AID PROJECT					



* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

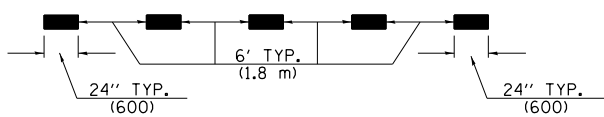
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

PAVEMENT MARKING LEGEND

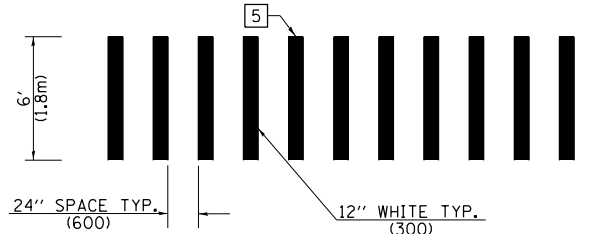


GENERAL NOTES

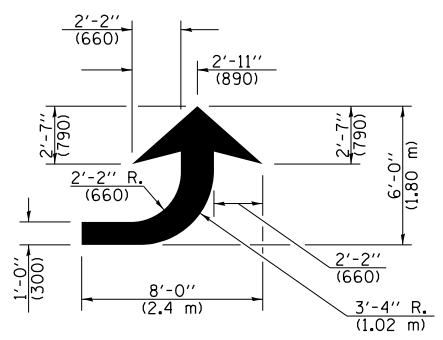
- TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
- THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
- USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)
- LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.



LANE LINE EXTENSIONS

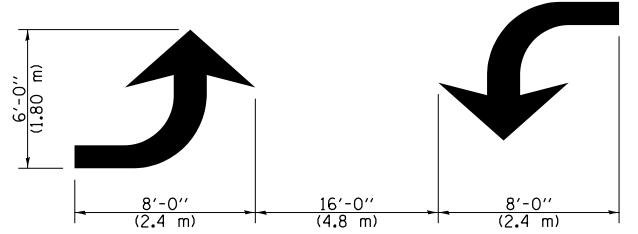


CROSSWALK DETAIL (DECATUR CITY LIMITS ONLY)



LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)



TYPICAL DOUBLE TURN ARROWS (WHITE)

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

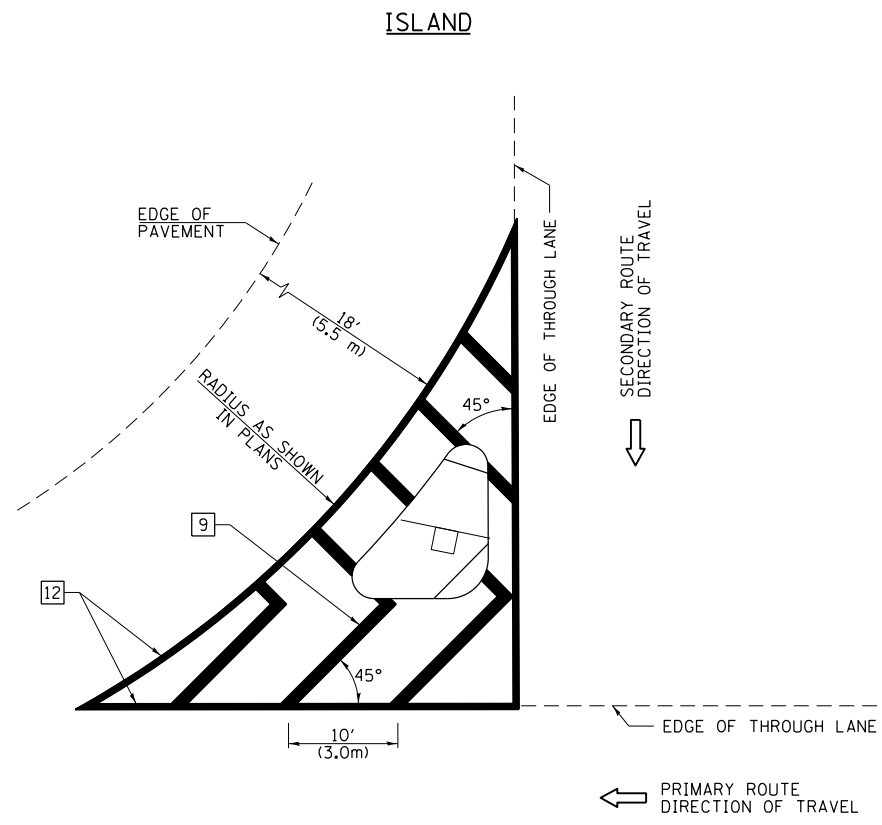
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
pw\11084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 7\Projects\74689\Drawings\CABsheets\0774689-sht-details		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	.	CLARK	70	31
CONTRACT NO. 74689				
ILLINOIS FED. AID PROJECT				

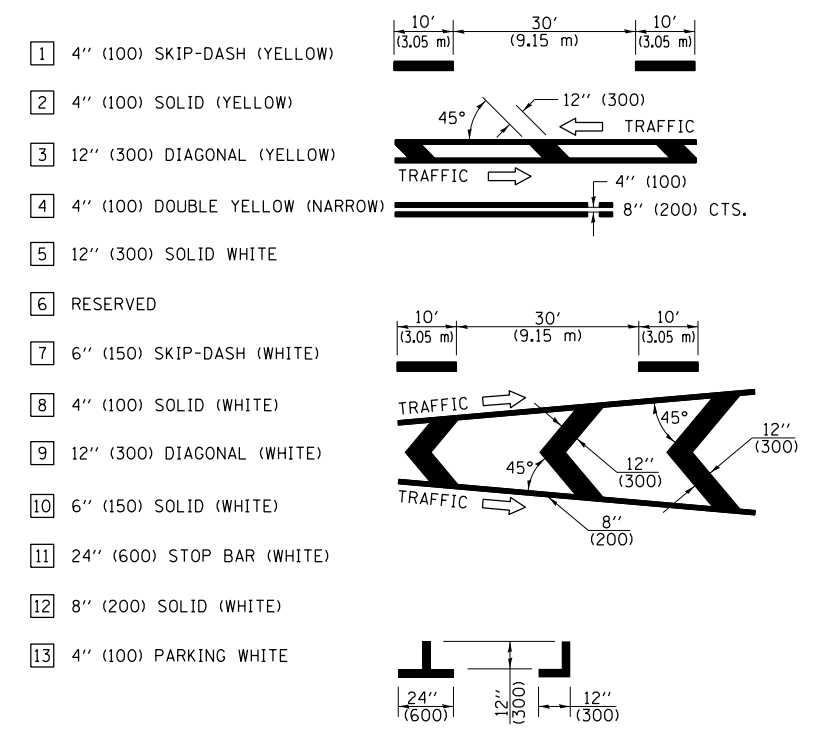


GENERAL NOTES

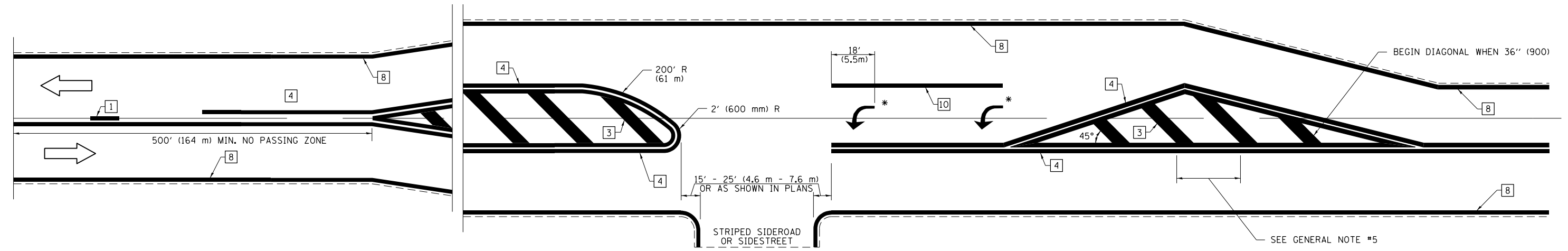
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
> 45 MPH (> 75 km/h)	30' (9.0 m)

PAVEMENT MARKING LEGEND



RURAL LEFT TURN STRIPING



* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE
 Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

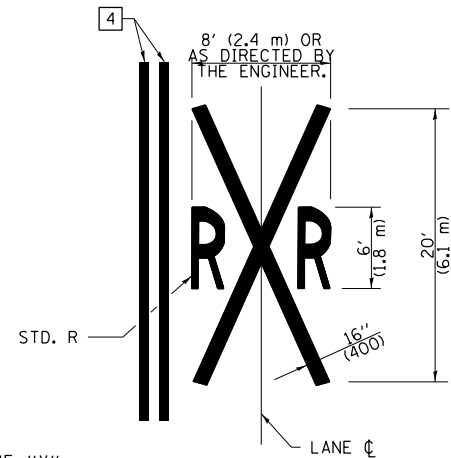
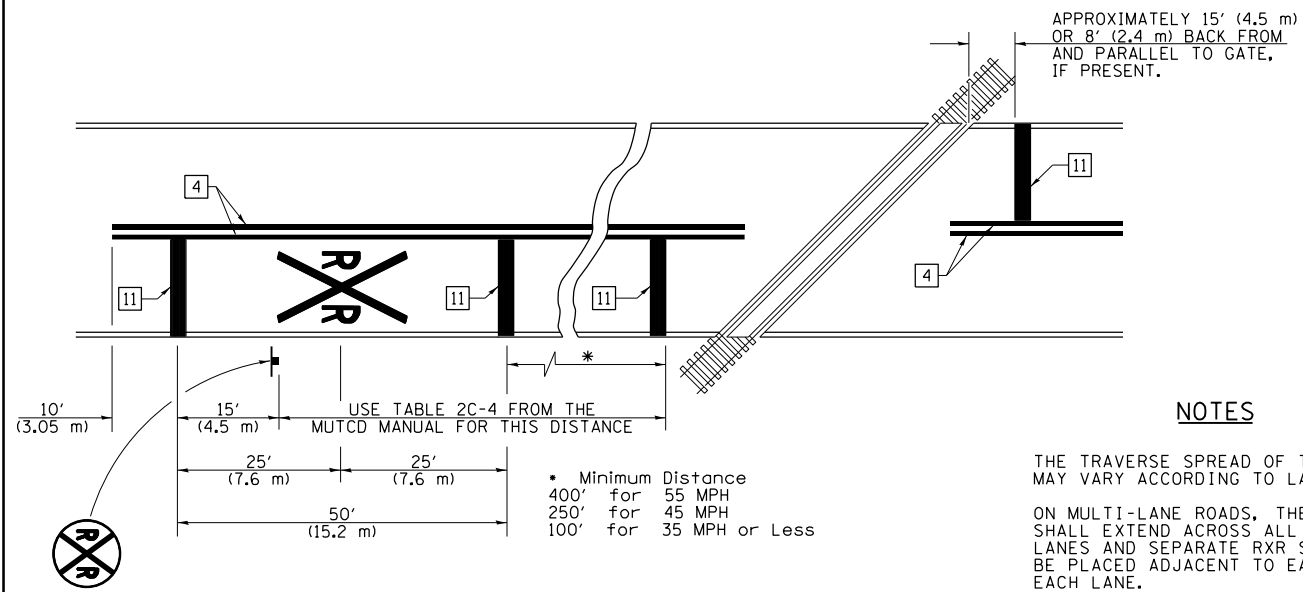
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/25/2015	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)			
SCALE:	SHEET NO. 3 OF 4 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	*	CLARK	70	32
CONTRACT NO. 74689				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

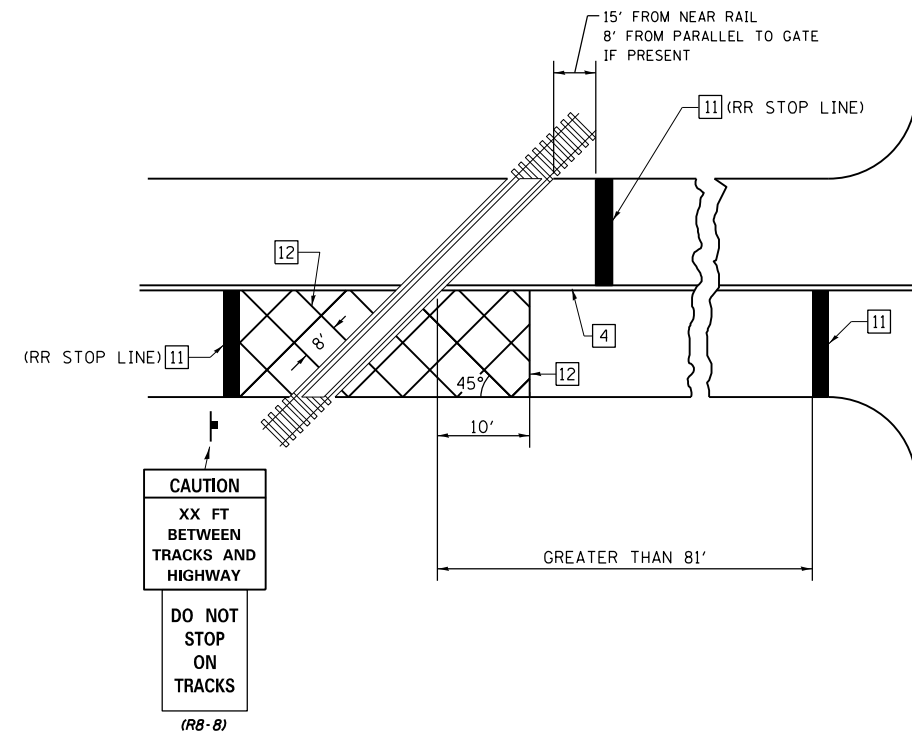
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

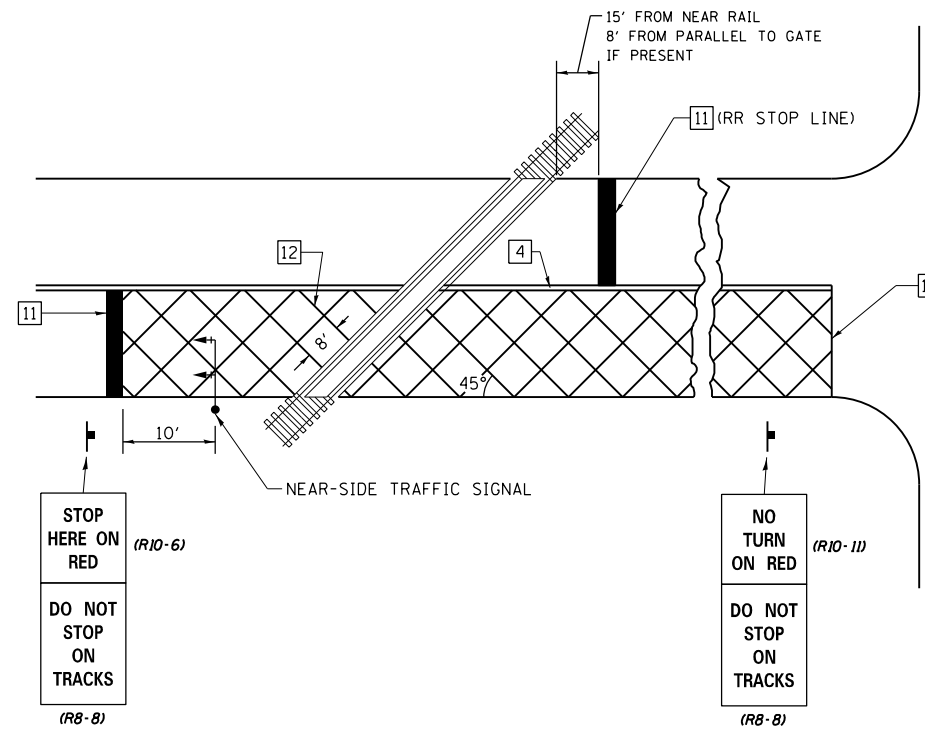
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.

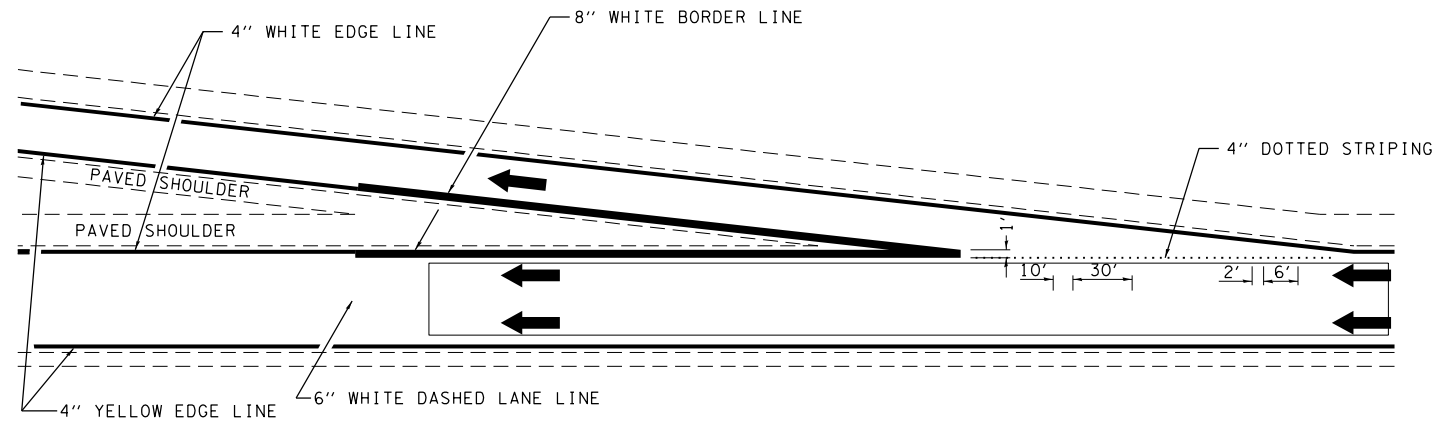
SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

NOT TO SCALE

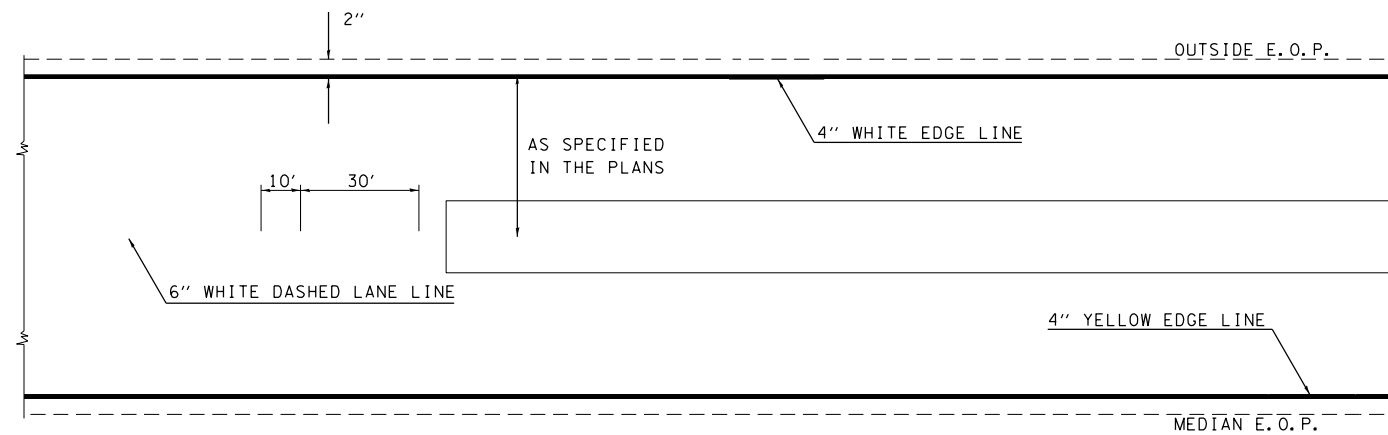
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

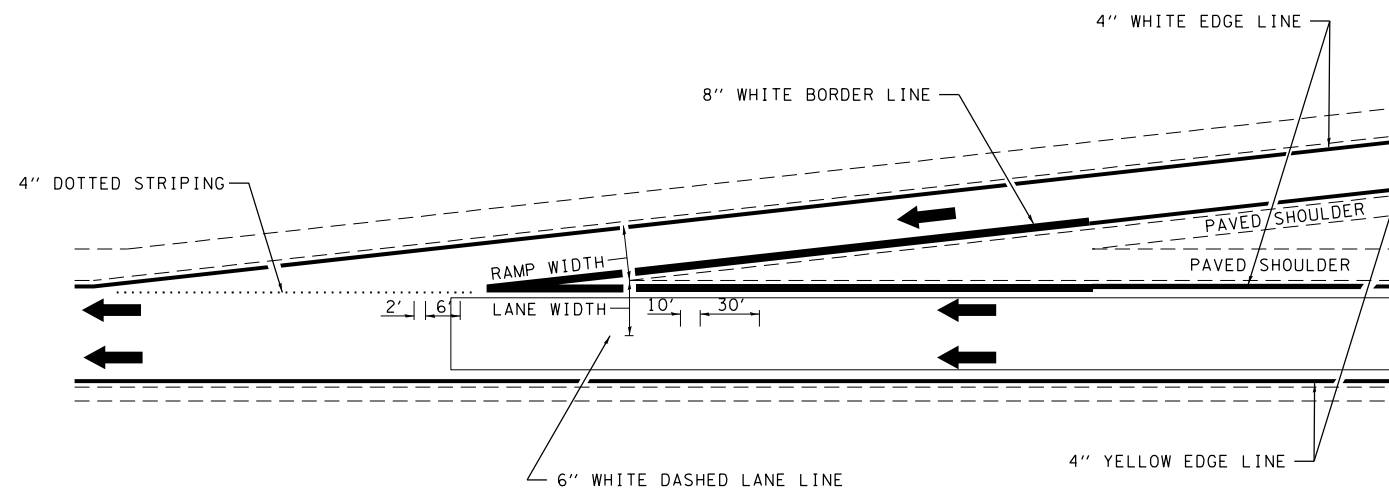
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74689\DRAWING\CABsheets\0774689-sht-details	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED -			70	.	CLARK	70	33	
	PLOT DATE = 3/25/2015	DATE -	REVISED -			CONTRACT NO. 74689					
						ILLINOIS FED. AID PROJECT					



TYPICAL EXIT RAMP MARKING



TYPICAL CENTERLINE & EDGELINE MARKINGS



TYPICAL ENTRANCE RAMP MARKING

NOT TO SCALE

DISTRICT 7 DETAIL NO. 7800002

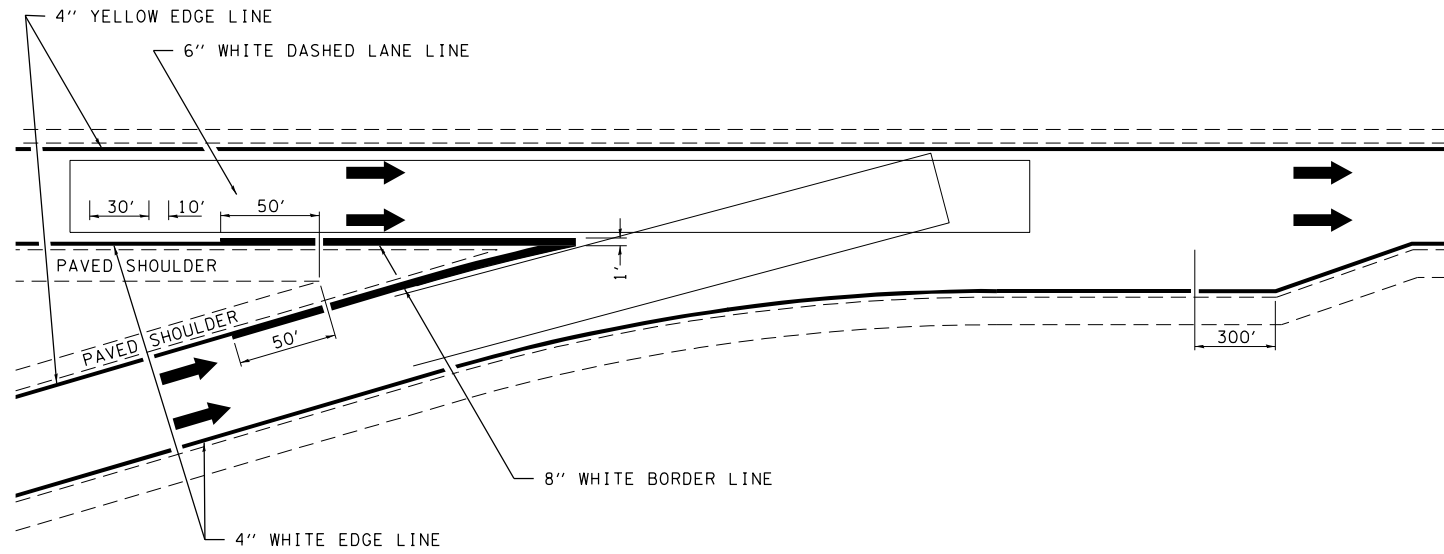
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED - DRM 08-04
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	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED - DRM 01-09
	PLOT DATE = 3/25/2015	DATE -	REVISED - DRM 12-10

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

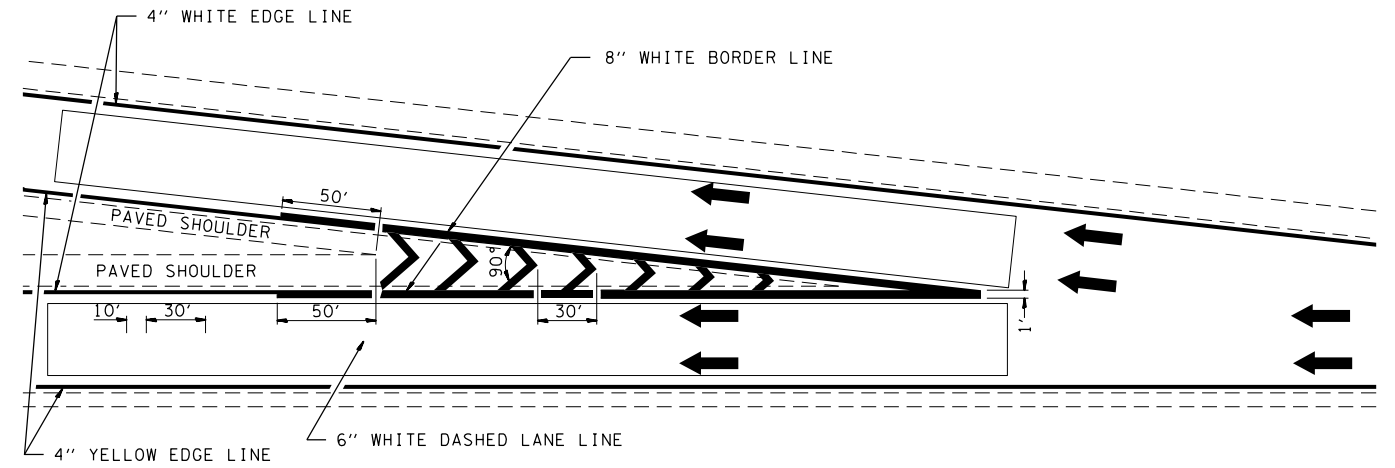
TYPICAL APPLICATIONS OF INTERSTATE PAVEMENT MARKING

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70		CLARK	70	34
CONTRACT NO. 74689				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

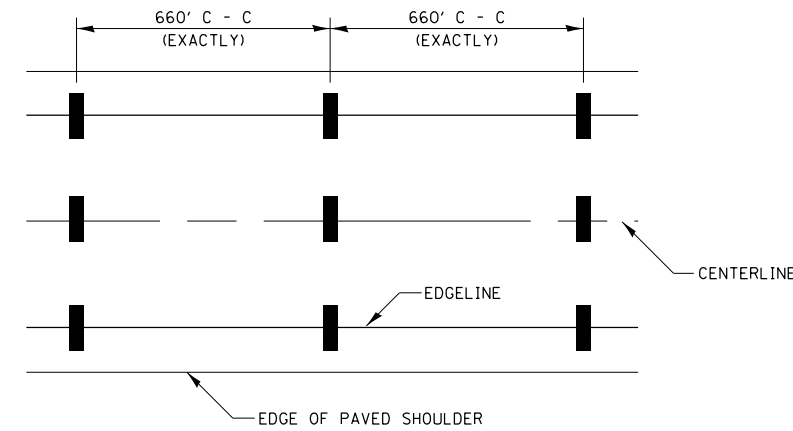


TYPICAL CONVERGENCE MARKING

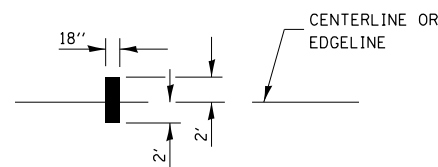


TYPICAL DIVERGENCE MARKING

AERIAL SPEED CHECK ZONES



IT WILL BE NECESSARY TO HAVE A REPRESENTATIVE OF THE STATE POLICE PRESENT SO THAT THE ACCURACY OF MEASUREMENT CAN BE ATTESTED TO IN COURT.



NOT TO SCALE

DISTRICT 7 DETAIL NO. 7800002

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED - MMO 12-99
p:\11\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 7\Projects\74689\DRAWING\CABsheets\0774689-sht-details		DRAWN -	REVISED - DRM 08-04
	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED - MKS 04-08
	PLOT DATE = 3/25/2015	DATE -	REVISED - DRM 01-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS OF INTERSTATE PAVEMENT MARKING

SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70		CLARK	70	35
CONTRACT NO. 74689				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Fasteners shall be high strength bolts. Flange splice holes shall be $\frac{5}{16}$ " ϕ for $\frac{7}{8}$ " ϕ bolts. Web splice holes shall be $\frac{13}{16}$ " ϕ for $\frac{3}{4}$ " ϕ bolts.

The Contractor shall provide support and/or shoring systems for the slab and beam in the area of existing beam removal. See Special Provisions "Temporary Shoring and Cribbing".

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

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose 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 methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing and Erecting Structural Steel.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat shall be Gray, Munsell No. 5B 7/L.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the GBSP "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

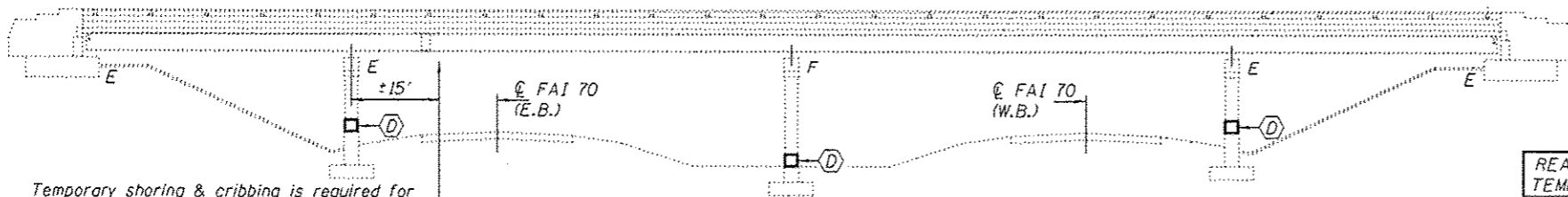
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Diaphragm connection holes shall be $\frac{5}{16}$ " ϕ for $\frac{3}{4}$ " ϕ bolts. Two hardened washers shall be required at diaphragm connections.

The deck surface shall have its final finish lined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

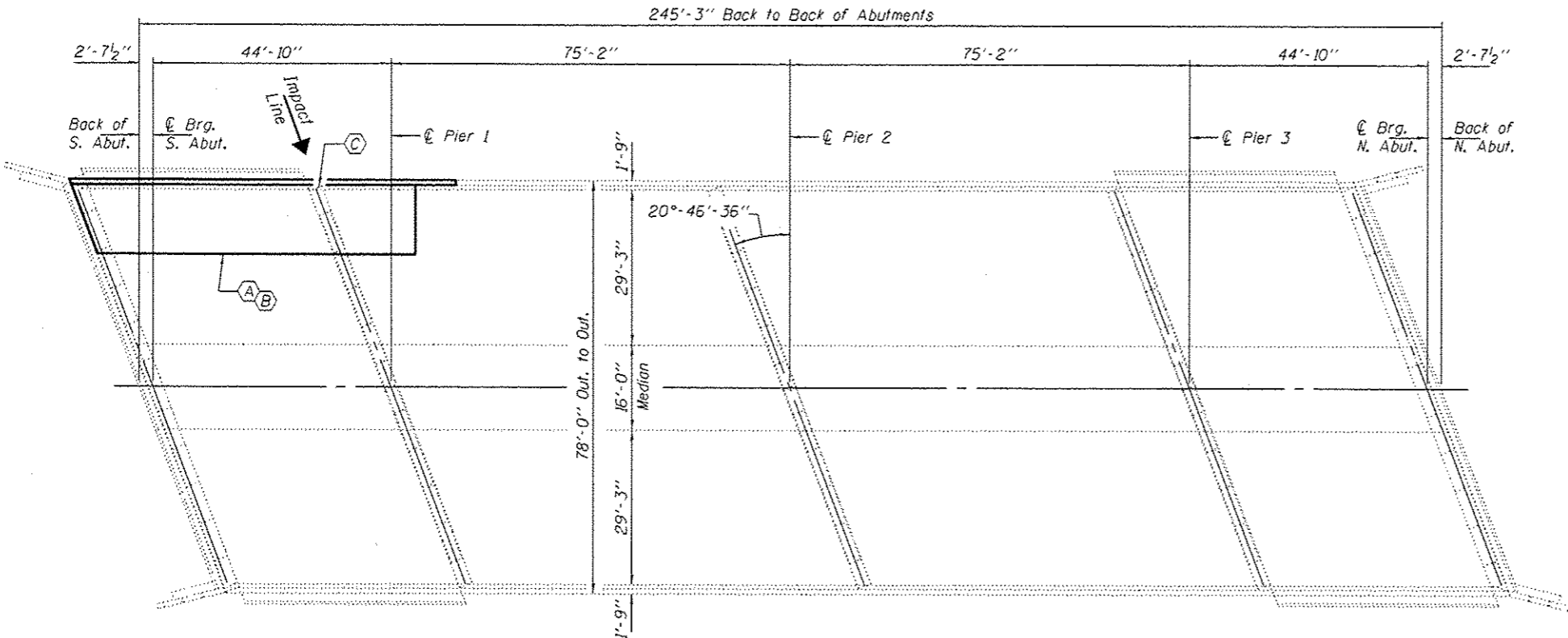
All soot on the underside of the bridge shall be removed according to Article 592 of the Standard Specifications, to the satisfaction of the engineer. This work shall also include bearings & extensions at beams 1 & 2 at the South Abutment.

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



ELEVATION

REACTION TABLE AT TEMPORARY SHORING		
Q	(k)	74.3
L	(k)	46.3
Imp.	(k)	12.1
Total	(k)	132.7



PLAN

- (A) - Remove & Replace section of Beams 1 & 2.
- (B) - Remove & Replace Concrete Bridge Deck.
- (C) - Remove & Replace portion of pier cap & Westernmost column & repair crashwall.
- (D) - Crashwall extension at all piers.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	35.0
Concrete Superstructure	Cu. Yd.	29.7
Furnishing and Erecting Structural Steel	Pound	20550
Structural Steel Removal	Pound	20550
Concrete Structures	Cu. Yd.	42.6
Protective Coat	Sq. Yd.	102.8
Floor Drains	Each	5
Remove and Re-Erect Existing Handrail	Foot	72
Preformed Joint Strip Seal	Foot	14
Reinforcement Bars, Epoxy Coated	Pound	14640
Structural Repair of Concrete (Depth \leq 5")	Sq. Ft.	49.4
Temporary Shoring and Cribbing	L. Sum	1
Mechanical Splicers	Each	259
Bridge Washing No. 1	Each	1

* On new Superstructure concrete only



EXPIRES 11-30-2016

DESIGNED: Stephen M. Ryan
 CHECKED: Victor H. Ubbelohde
 DRAWN: baliva/ Steffen
 CHECKED: SMR V40

PASSED: *David Carl Puzey*
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

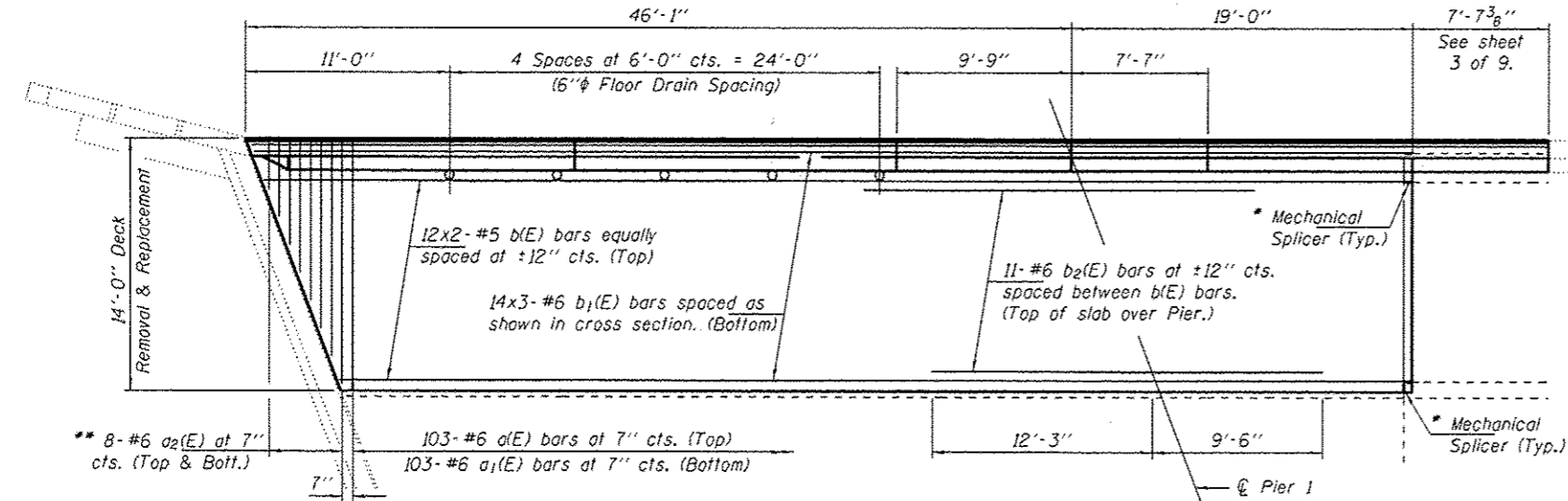
DATE: APRIL 15, 2015
 REVISED: _____
 REVISED: _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
 FAP 832 (IL 49) OVER FAI 70
 SN 012-0048

SHEET NO. 1 OF 9 SHEETS

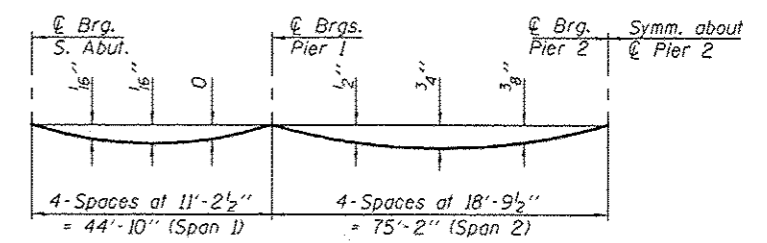
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO	118-12-43RIS-3, 112-49, NB-218R	CLARK	70	36
CONTRACT NO. 74689			ILLINOIS FED. AID PROJECT	



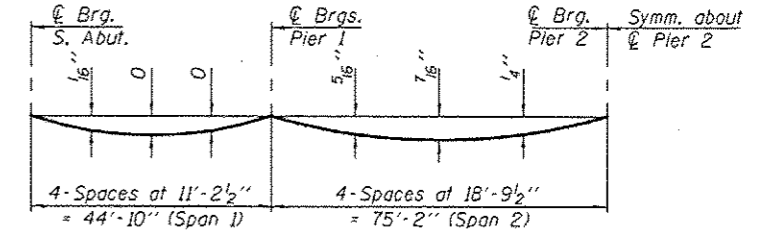
** Order a₂(E) bars full length. Cut to fit skew and use in top & bottom of slab.

PARTIAL DECK PLAN

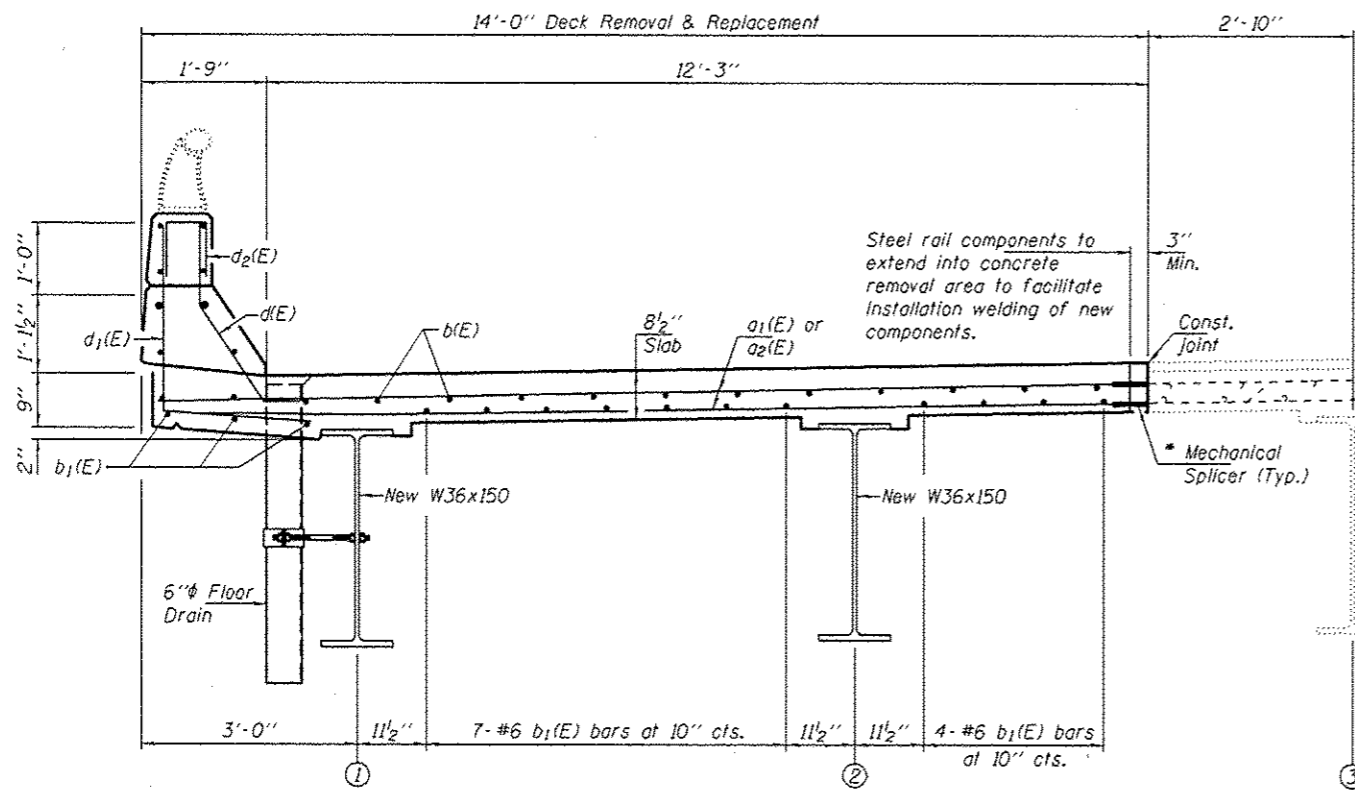
* Existing reinforcement to extend 6" min. into concrete removal area to facilitate installation of Mechanical Splicers.



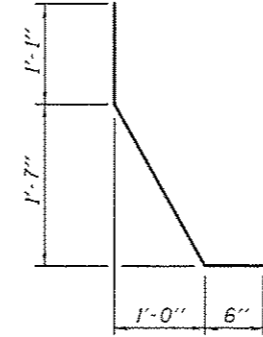
DEAD LOAD DEFLECTION DIAGRAM - BEAM 1
(Includes weight of concrete, excluding beams).



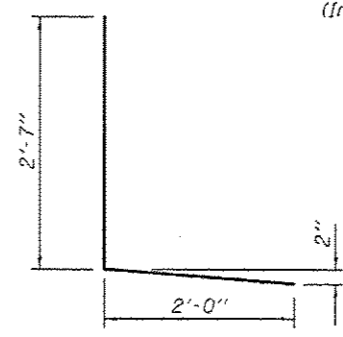
DEAD LOAD DEFLECTION DIAGRAM - BEAM 2
(Includes weight of concrete, excluding beams).



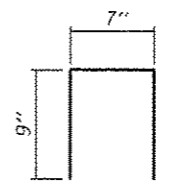
SECTION THRU DECK



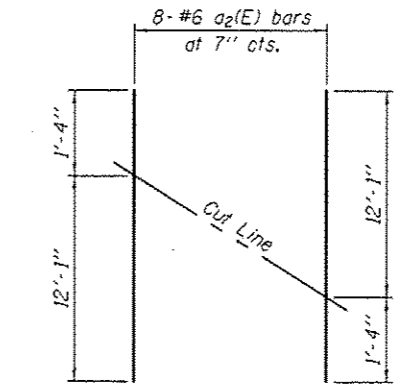
BAR d(E)



BAR d1(E)



BAR d2(E)



BAR a₂(E) CUTTING DIAGRAM

MIN. BAR LAP
#5 Bar = 2'-7"
#6 Bar = 3'-1"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁ (E)	103	#6	13'-7"	—
a ₂ (E)	8	#6	13'-5"	—
b(E)	24	#5	33'-8"	—
b ₁ (E)	42	#6	23'-8"	—
b ₂ (E)	11	#6	21'-9"	—
d(E)	65	#5	3'-5"	⌋
d ₁ (E)	68	#4	4'-7"	⌋
d ₂ (E)	16	#4	2'-1"	⌋
e ₁ (E)	8	#4	17'-7"	—
e ₂ (E)	4	#4	9'-5"	—
e ₃ (E)	4	#4	7'-3"	—
e ₄ (E)	4	#4	18'-8"	—
e ₅ (E)	4	#8	20'-7"	—
e ₆ (E)	2	#8	9'-5"	—
e ₇ (E)	2	#8	7'-3"	—
e ₈ (E)	2	#8	11'-1"	—
e ₉ (E)	4	#5	19'-3"	—
e ₁₀ (E)	2	#5	9'-5"	—
e ₁₁ (E)	2	#5	7'-3"	—
e ₁₂ (E)	2	#5	11'-1"	—
Concrete Removal		Cu. Yd.	29.7	
Concrete Superstructure		Cu. Yd.	29.7	
Reinforcement Bars, Epoxy Coated		Lbs.	8100	

Reinforcement bars designated (E) shall be epoxy coated.

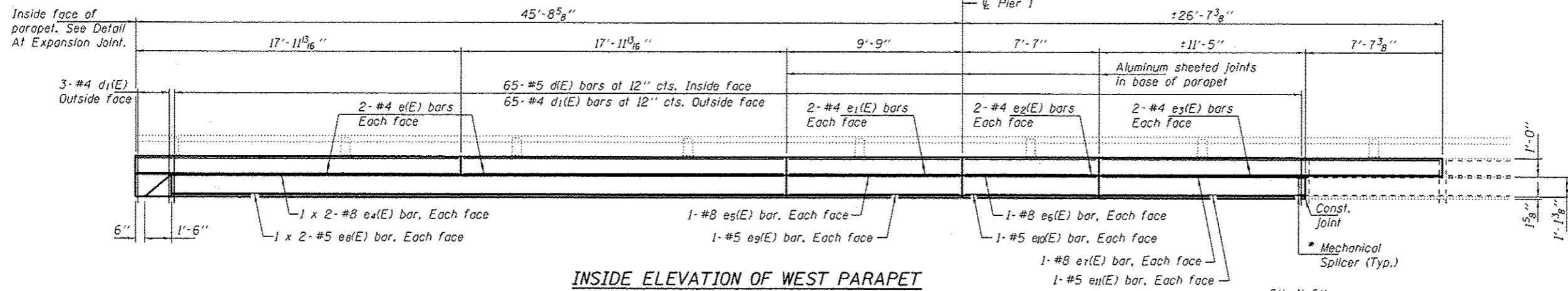
DESIGNED SMR
CHECKED VHV
DRAWN baliva/ Steffen
CHECKED SMR VHV

DATE APRIL 15, 2015
PASSED
ACTING ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
SN 012-0048
SHEET NO. 2 OF 9 SHEETS

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
TO (18.12-49RS-3, 112-49, M8-218R CLARK TO 31
CONTRACT NO. 74689
ILLINOIS FED. AID PROJECT

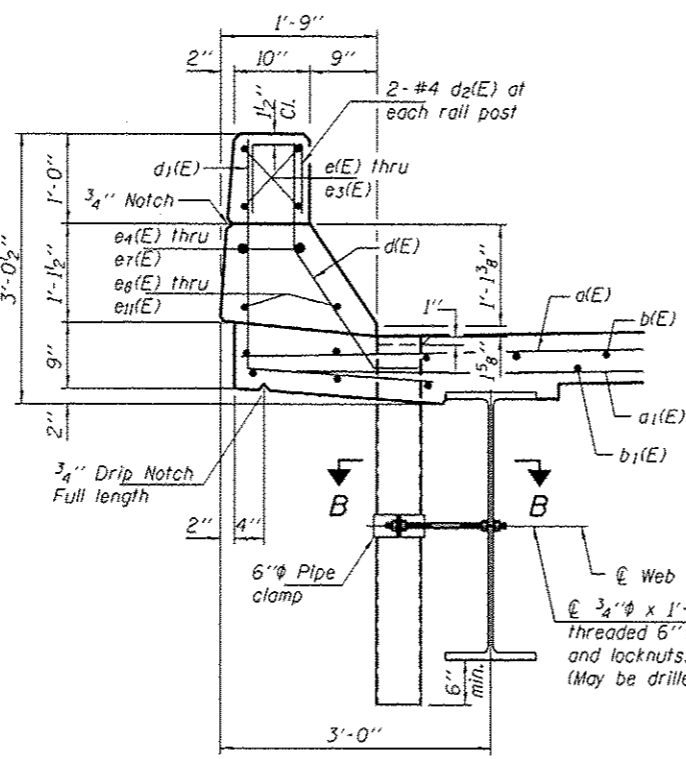


INSIDE ELEVATION OF WEST PARAPET

* Existing reinforcement to extend 6" min. into concrete removal area to facilitate installation of Mechanical Splicers.

MINIMUM BAR LAP

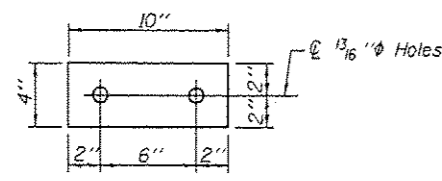
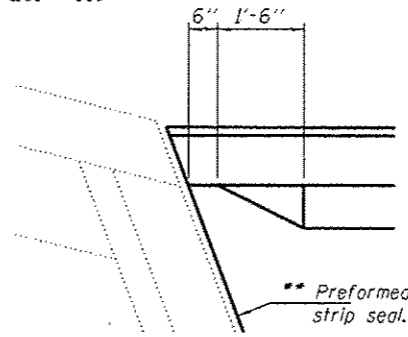
(Parapet)
 #5 bar = 2'-6"
 #8 bar = 5'-2"



SECTION THRU PARAPET

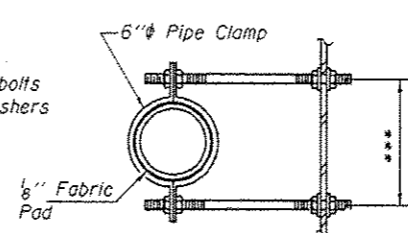
DETAIL AT EXPANSION JOINT

** Steel rail components to extend 3" into concrete removal area & new components to be welded per details on sheet 5 of 9. Rubber gland to be salvaged and reinstalled. No cutting of the gland will be allowed. Cost included with Preformed Joint Strip Seal.



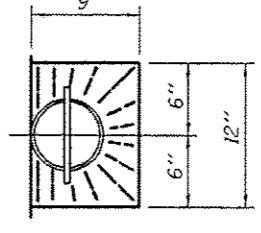
LATERAL SUPPORT PLATE DETAIL

PL 1/4" x 4" x 10"
 No. Req'd. - 12
 Plus additional as directed by the Engineer.

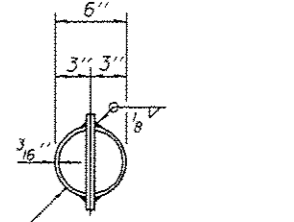


SECTION B-B

*** Dimension as required by Pipe Clamp.

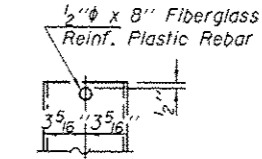


TOP PLAN

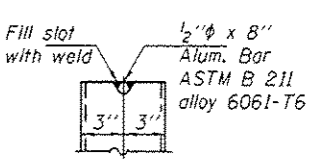


TOP PLAN

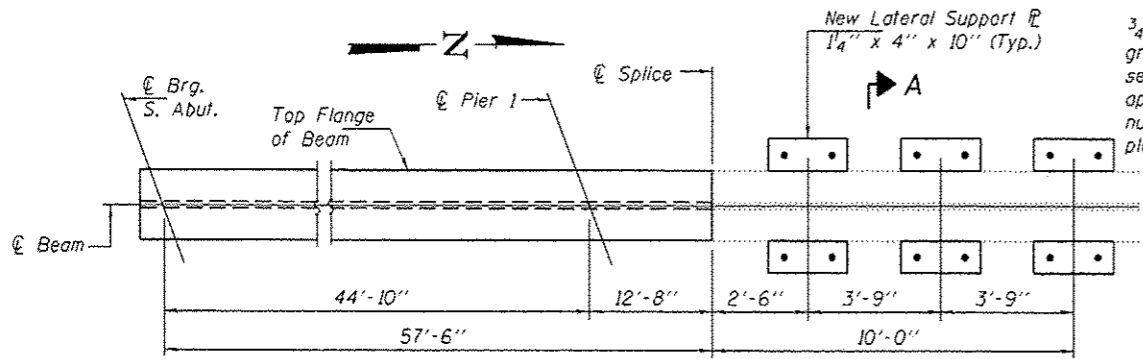
(Showing Aluminum Tube)



FIBERGLASS PIPE



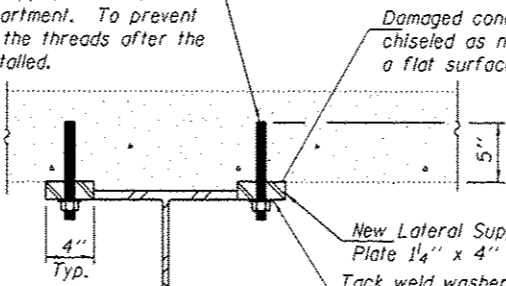
ALUMINUM TUBE



PARTIAL PLAN

DAMAGED BEAM 1 & 2 FILLET REPAIR DETAIL

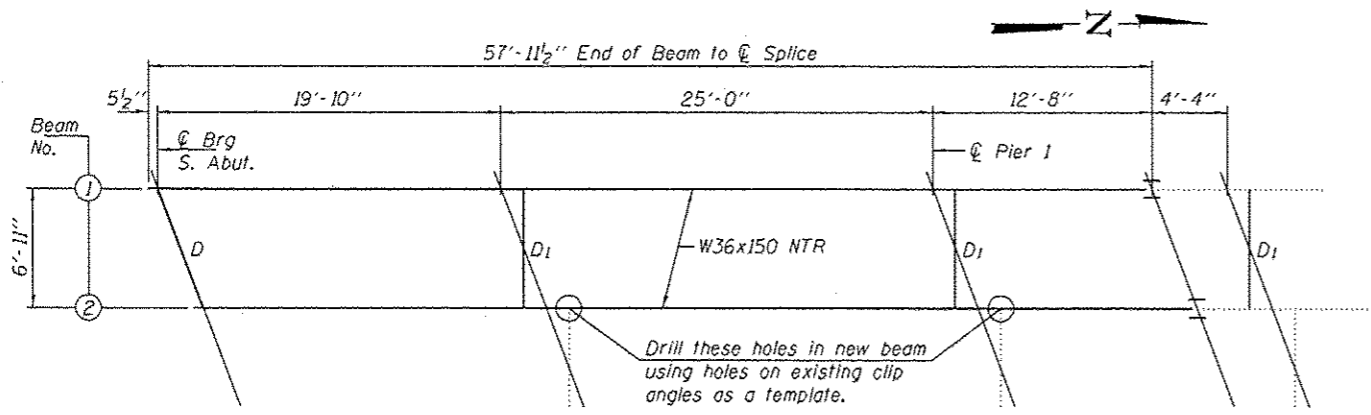
3/4" x 7" Threaded Rod. Drill and epoxy grout using Grade 3 epoxy with 1 hr. min. set time. Method of application shall be approved by the Department. To prevent nut backoff, deform the threads after the plates have been installed.



SECTION A-A

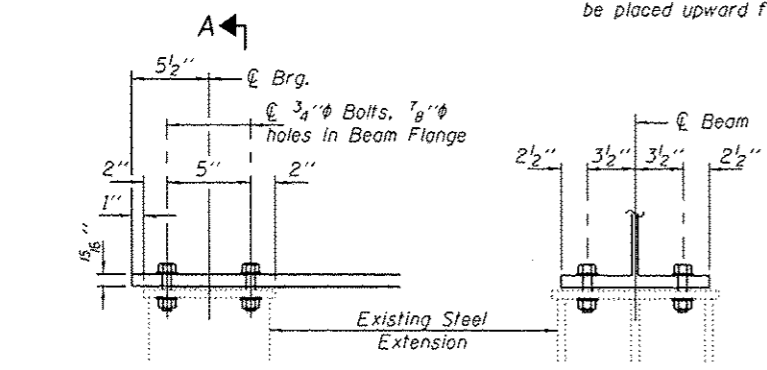
Notes:
 Drains shall be located clear of all diaphragms.
 The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coatings' Spec. SSPC-SP1 prior to painting.
 Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
 Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.

DESIGNED SMR	DATE APRIL 15, 2015	STATE OF ILLINOIS	SUPERSTRUCTURE DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED VHV		DEPARTMENT OF TRANSPORTATION	SN 012-0048	TO	118,12-49/MS-3, (12-49, HB-2)OR	CLARK	70	38
DRAWN baliva/ Steffen								
CHECKED SMR VHV								
PASSED <i>[Signature]</i> ACTING ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 3 OF 9 SHEETS		CONTRACT NO. 74689			
			ILLINOIS FED. AID PROJECT					



PARTIAL FRAMING PLAN

Note:
Natural camber of new beam shall be placed upward for fabrication.

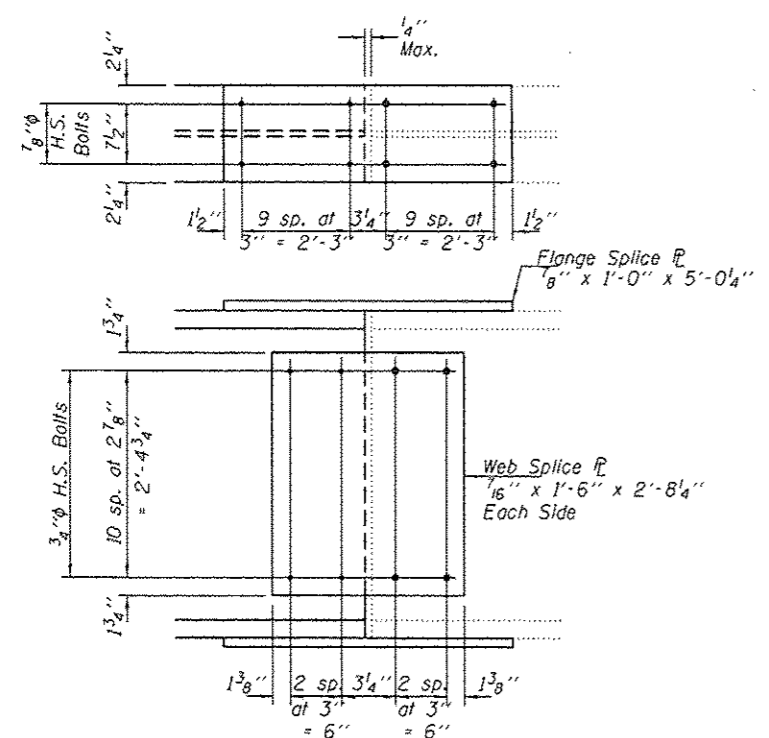


ELEVATION AT ABUTMENT

(Typical at beams 1 & 2 only)

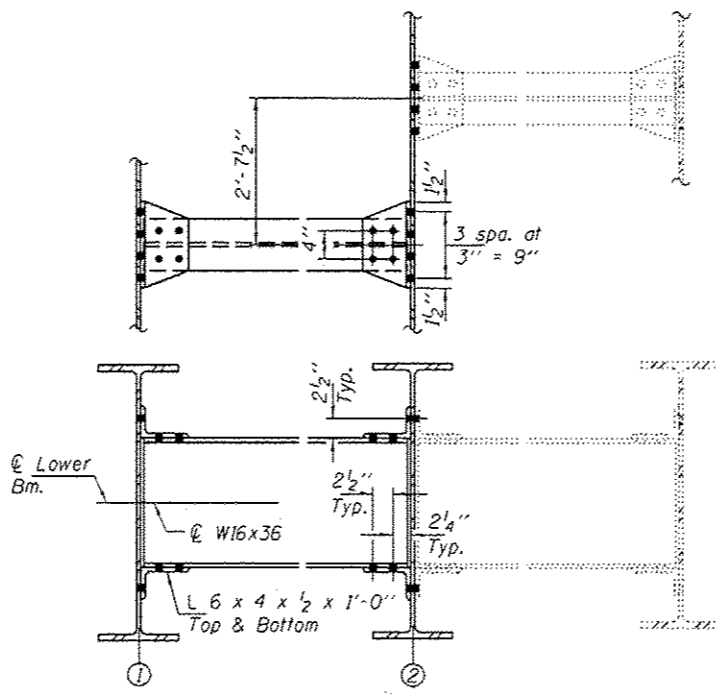
SECTION A-A

- - Use holes in existing steel as template.
- - Use holes in new steel as template.



DETAIL OF SPLICE

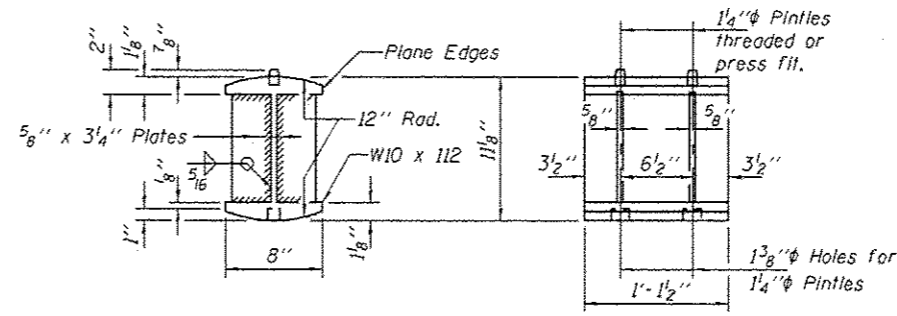
All splice plates shall be NTR



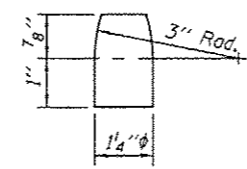
DIAPHRAGM D1

3 Required

Fasteners shall be high strength bolts. Bolts 3/4"φ, open holes 1 3/16"φ, unless otherwise noted.



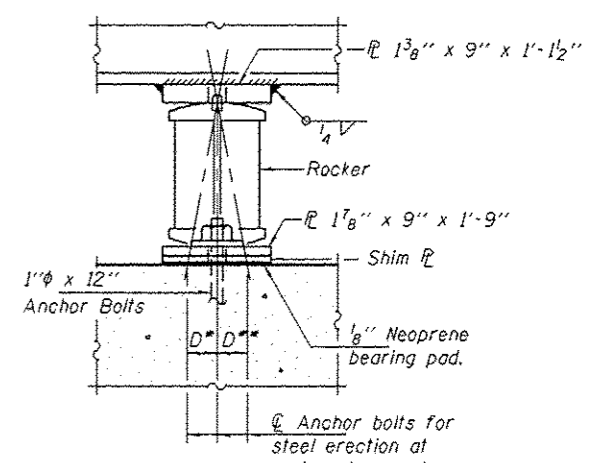
ROCKER



PINTLE

Note "A"
1 3/8"φ Holes-1" deep in top flange for 1 1/4"φ Pintles. Thread or press fit pintles in bottom flange.

Note "B"
1 1/2"φ Holes for 1"φ Anchor Bolts - 5/16" x 2 1/2" x 2 1/2" flange washer under nut.



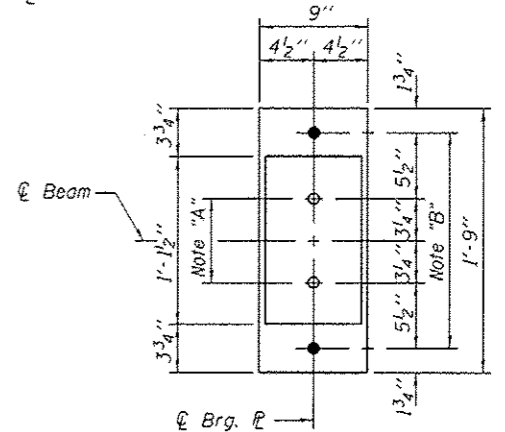
ELEVATION

D* (Side of brg. away from fixed brg.)
D* = 1/8" per each 100' of expansion for every 15° fall below the normal temp. of 50° F.

D** (Side of brg. toward fixed brg.)
D** = 1/8" per each 100' of expansion for every 15° rise above the normal temp. of 50° F.

After beams have been erected and dimensions D* & D** determined, holes shall be drilled and anchor bolts shall be installed as shown on Sheet #7 of 9.

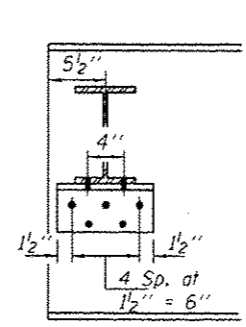
Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.



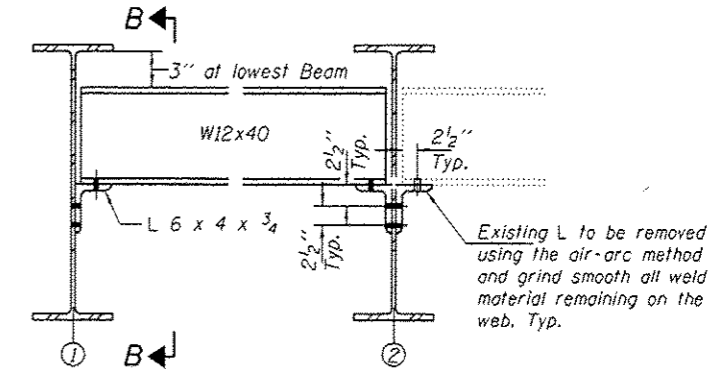
PLAN AT PIER 1

BEARING ASSEMBLY DETAILS

(Typical at beams 1 & 2 only)



SECTION B-B

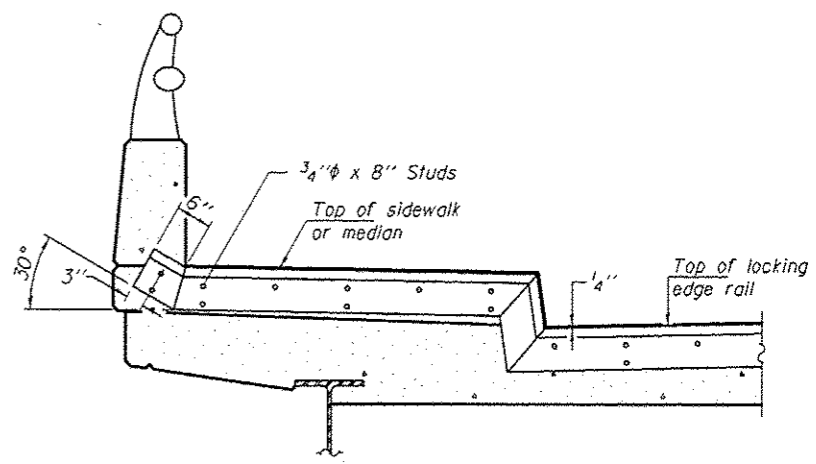
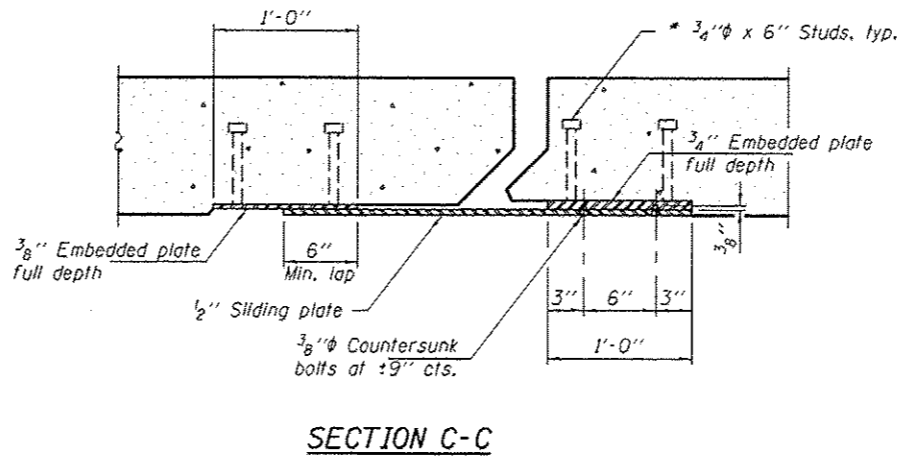
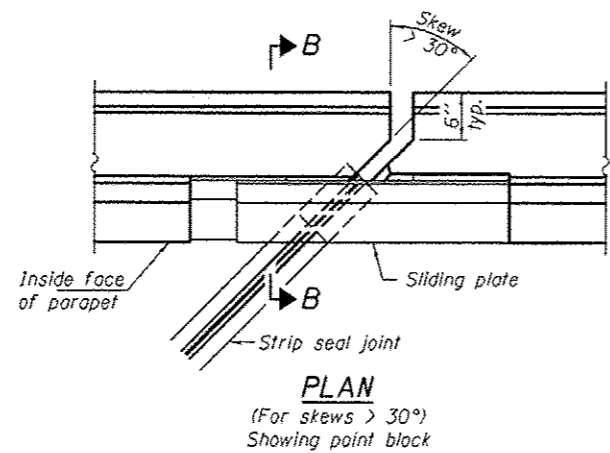
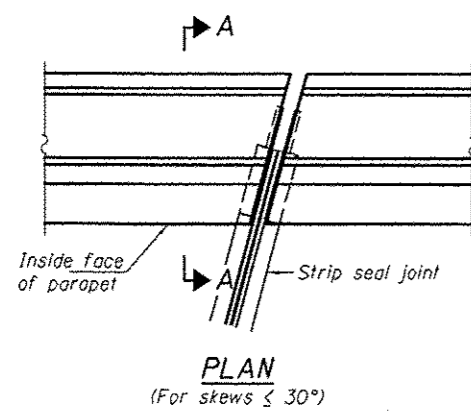


DIAPHRAGM D

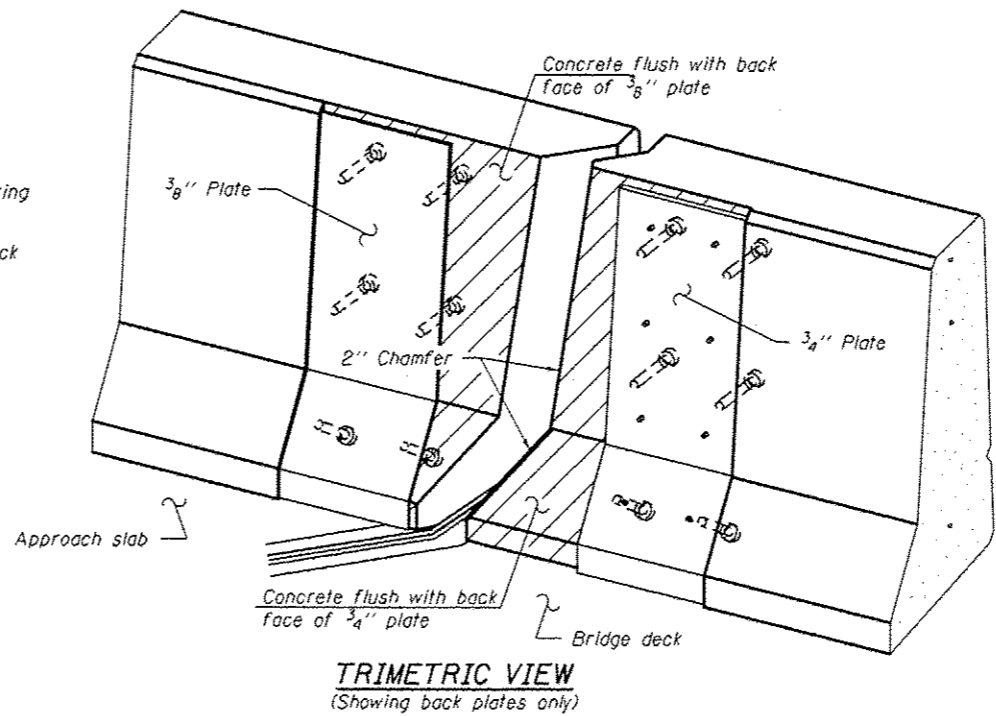
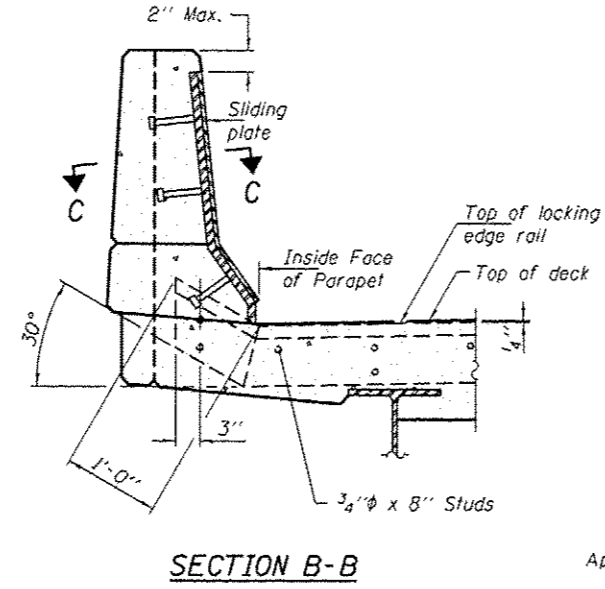
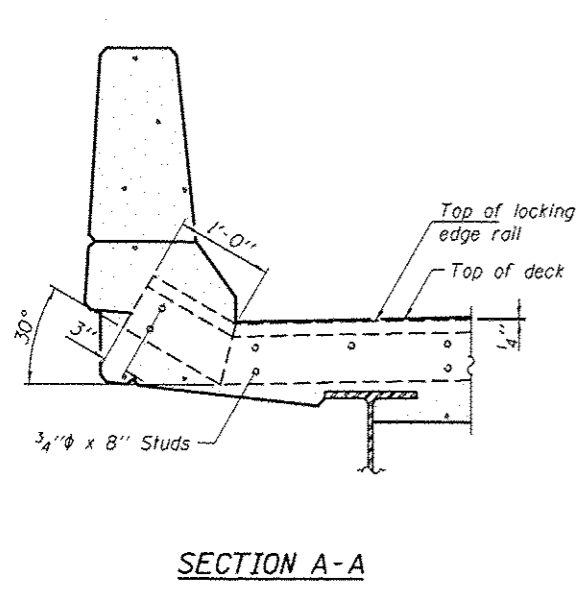
1 Required

Existing L to be removed using the air-arc method and grind smooth all weld material remaining on the web. Typ.

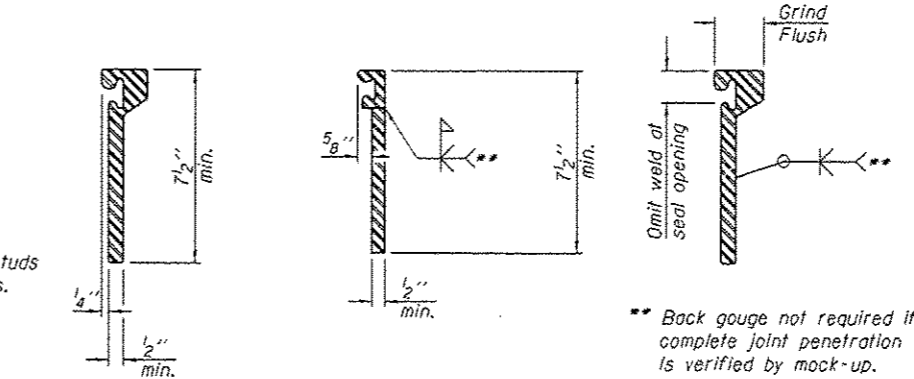
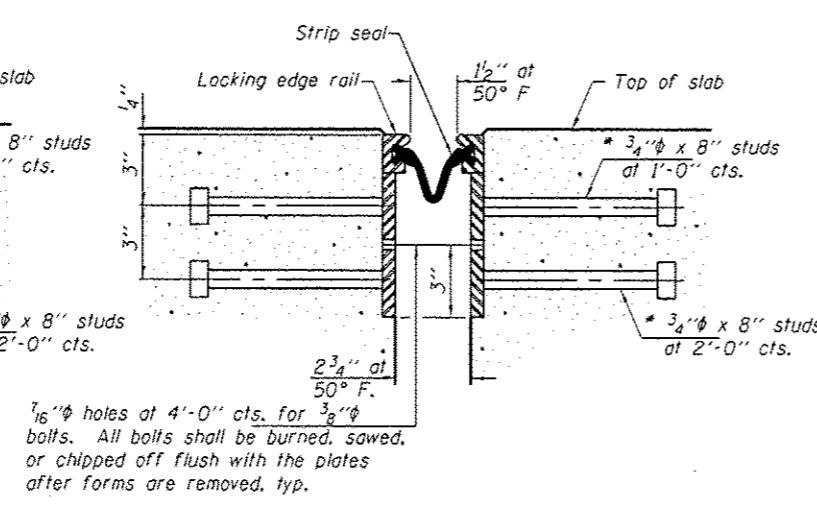
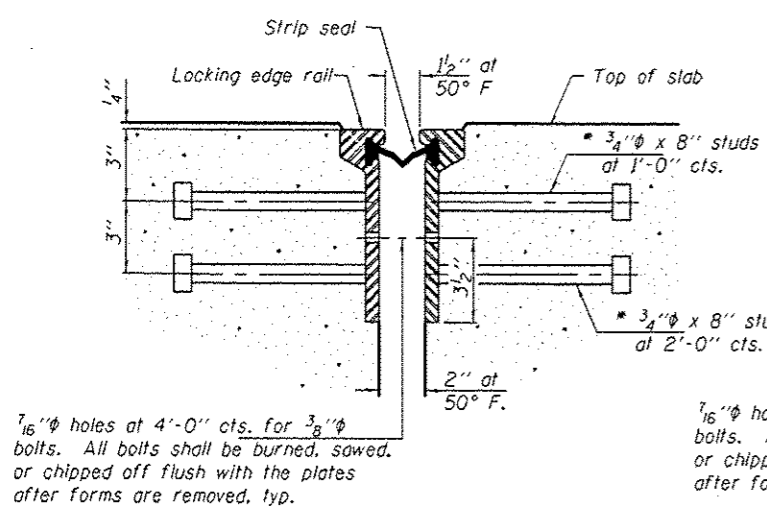
DESIGNED SMR	CHECKED VHV	DRAWN baliva/ Steffen	CHECKED SMR VHV	DATE APRIL 15, 2015	REVISED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STEEL REPAIR DETAILS SN 012-0048	SHEET NO. 4 OF 9 SHEETS	F.A.I. RTE.	SECTION 118, 112-49/RS-3, 112-49, HB-2/BR	COUNTY CLARK	TOTAL SHEETS 70	SHEET NO. 39	CONTRACT NO. 74689	ILLINOIS FED. AID PROJECT
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TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.
The manufacturer's recommended installation methods shall be followed.



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

SECTION THRU ROLLED RAIL JOINT

SECTION THRU WELDED RAIL JOINT

LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	14

EJ-SSJ

1-27-12

DESIGNED SMR
CHECKED VHV
DRAWN baliva/ Steffen
CHECKED SMR VHV

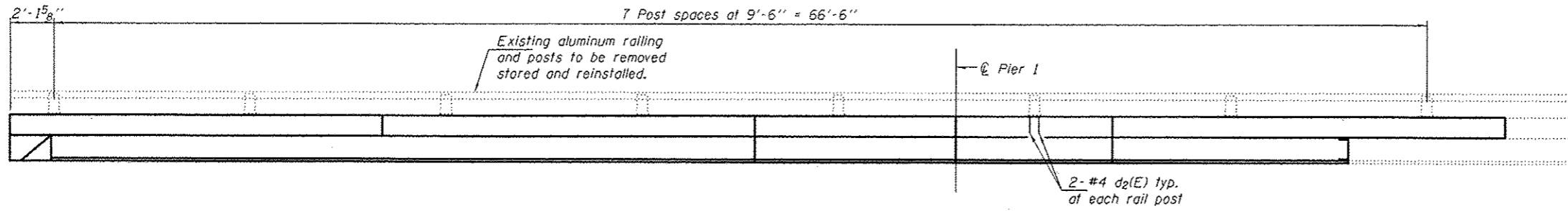
DATE APRIL 15, 2015
PASSED
ACTING ENGINEER OF BRIDGES AND STRUCTURES
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

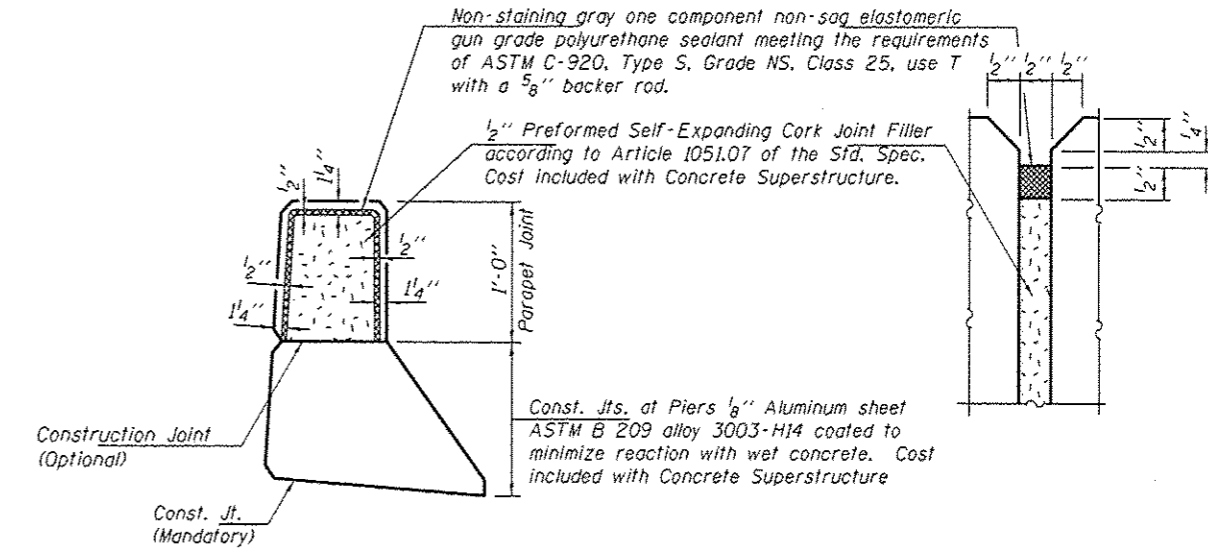
PREFORMED JOINT STRIP SEAL
STRUCTURE NO.
SHEET NO. 5 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	118J2-49R5-3, 112-49, NB-21BR	CLARK	70	40

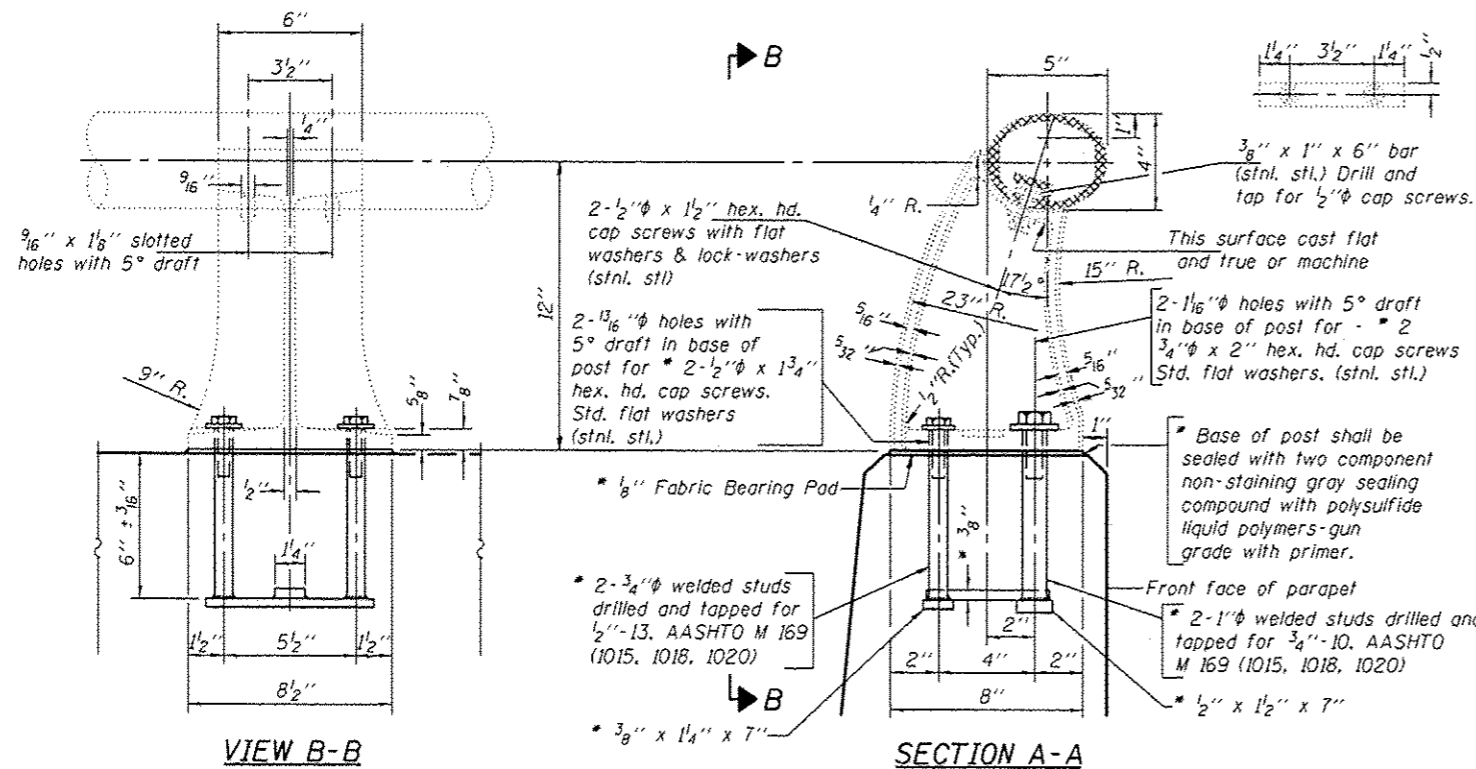
CONTRACT NO. 74689
ILLINOIS FED. AID PROJECT



INSIDE ELEVATION OF WEST PARAPET AND BRIDGE RAIL

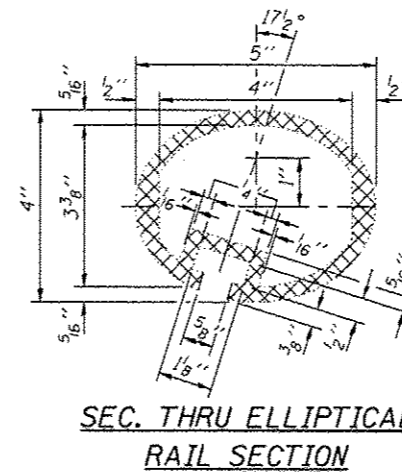


DETAILS OF PARAPET JOINT

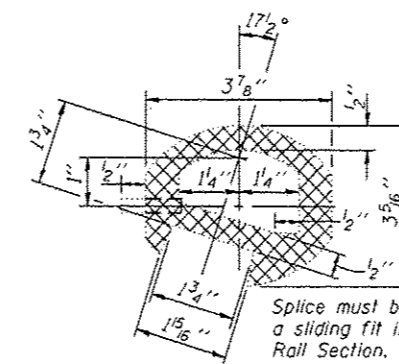


RAIL POST DETAILS

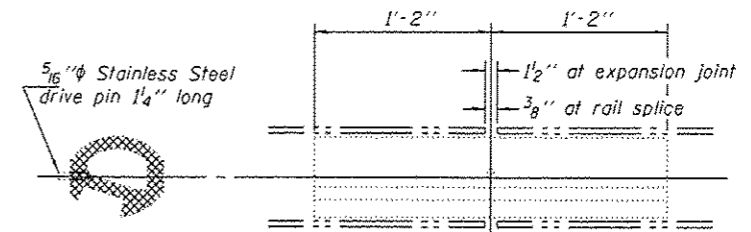
* New Rail Post anchorage devices will be required at each location where posts are connected to new construction. Cost to be included in "Remove and Re-erect Existing Handrail".



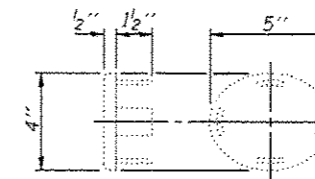
SEC. THRU ELLIPTICAL RAIL SECTION



SEC. THRU SPLICE



RAIL SPLICE



CAST END CAP DRIVE FIT TYPE

BILL OF MATERIAL

Item	Unit	Total
Remove and Re-Erect Existing Handrail	Foot	72

DESIGNED SMR
 CHECKED VHV
 DRAWN balliva/ Steffen
 CHECKED SMR VHV

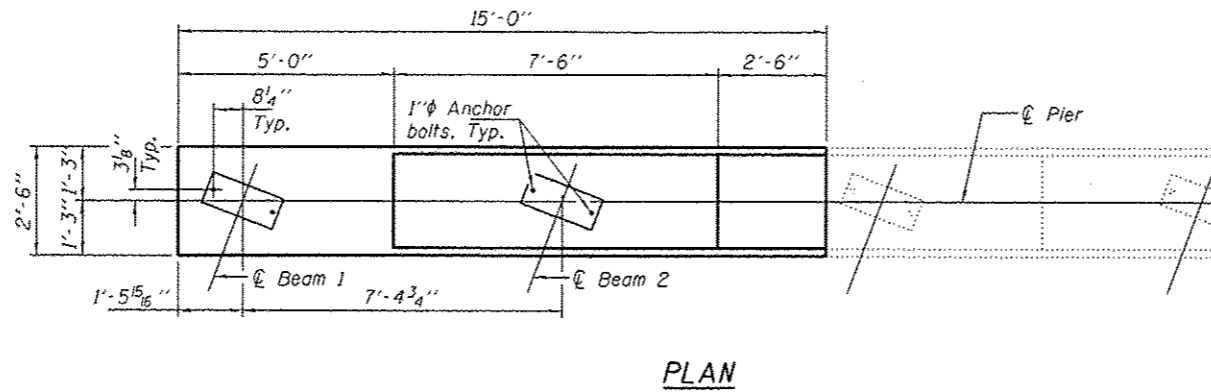
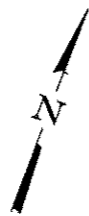
DATE APRIL 15, 2015
 PASSED
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

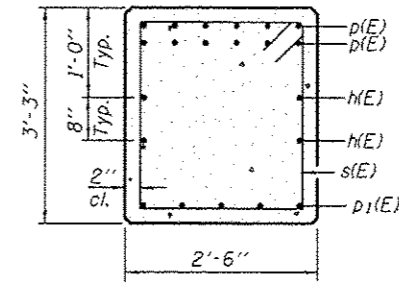
RAILING DETAILS
 SN 012-0048
 SHEET NO. 6 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO 118,12-49/RS-3, 112-49, HB-21BR	CLARK	70	41	
CONTRACT NO. 74689				
ILLINOIS FED. AID PROJECT				

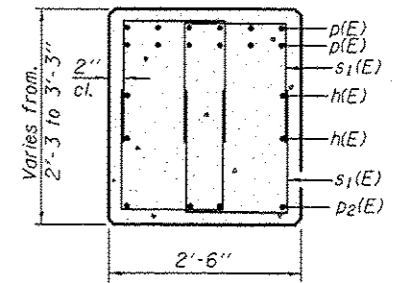
Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 Minimum spiral lap = 1 1/2 turns.



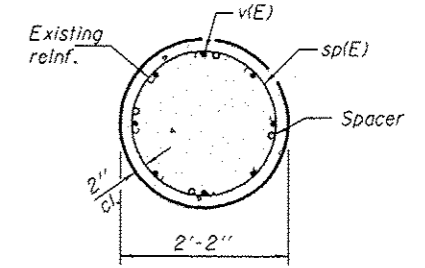
PLAN



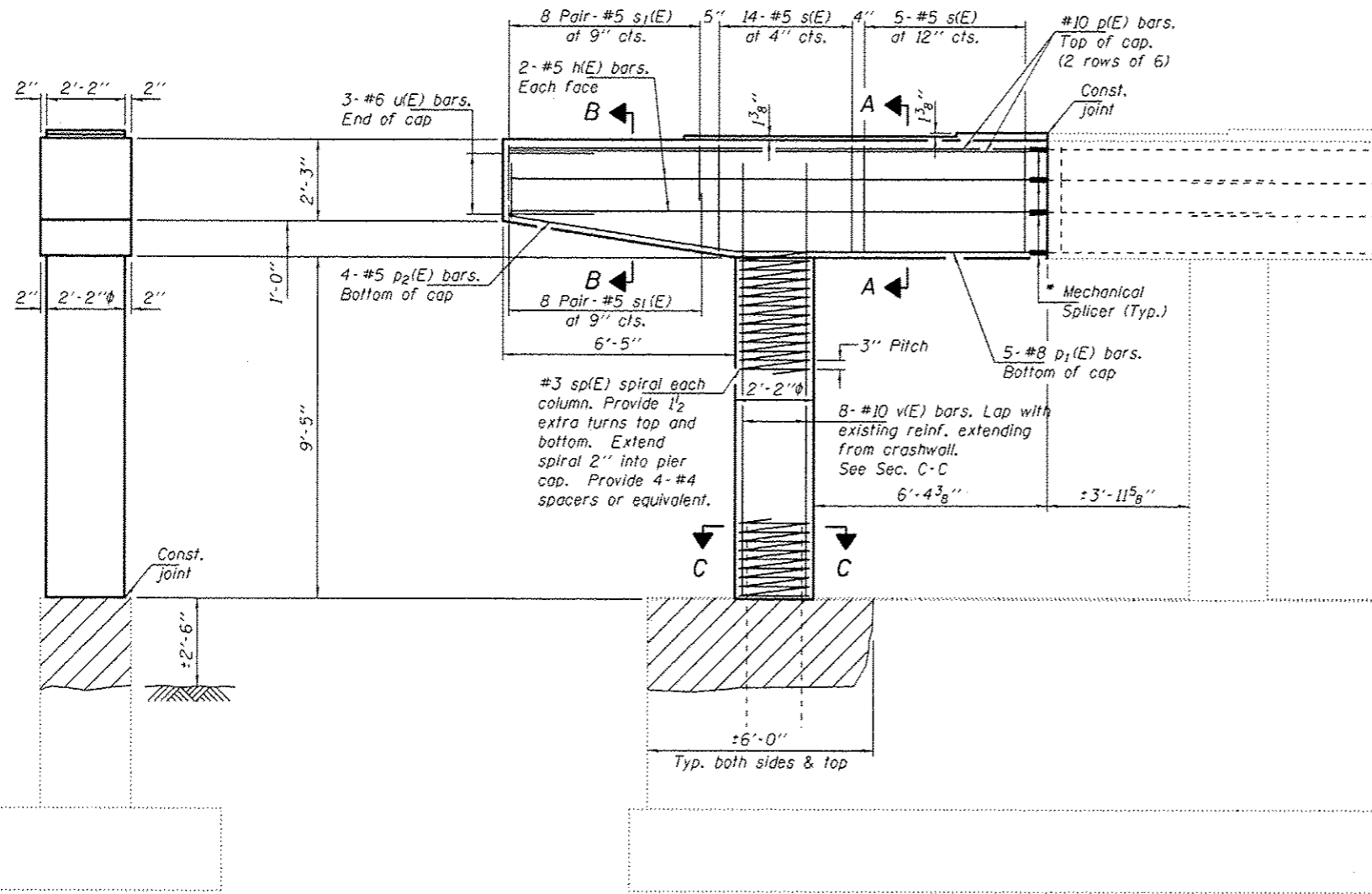
SEC. A-A



SEC. B-B



SEC. C-C

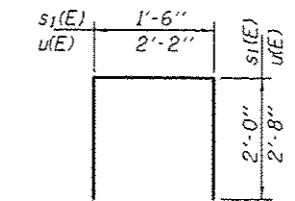


ELEVATION

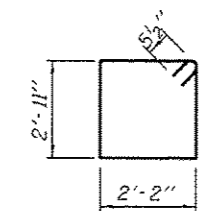
END VIEW

Hatched areas indicate Structural Repair of Concrete (Depth ≤ 5').

* Existing reinforcement to extend 6" min. into concrete removal area to facilitate installation of Mechanical Splicers.



BARS s1(E) & u(E)



BAR s(E)

BILL OF MATERIAL

Bar No.	Size	Length	Shape
h(E) 4	#5	14'-10"	—
p(E) 12	#10	14'-10"	—
p1(E) 5	#8	8'-6"	—
p2(E) 4	#5	6'-3"	—
s(E) 19	#5	11'-1"	□
s1(E) 32	#5	5'-6"	□
sp(E) 1	#3	9'-7"	∩∩∩
u(E) 3	#6	7'-6"	□
v(E) 8	#10	11'-6"	—
Concrete Removal		Cu. Yd.	5.3
Concrete Structures		Cu. Yd.	5.3
Reinforcement Bars, Epoxy Coated		Pound	1900
Structural Repair of Concrete (Depth ≤ 5')		Sq. Ft.	49.4

** Length is height of spiral.

DESIGNED SMR
 CHECKED VHV
 DRAWN baliva/ Steffen
 CHECKED SMR VHV

PASSED
 DATE APRIL 15, 2015
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

REVISOR
 REVISOR

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

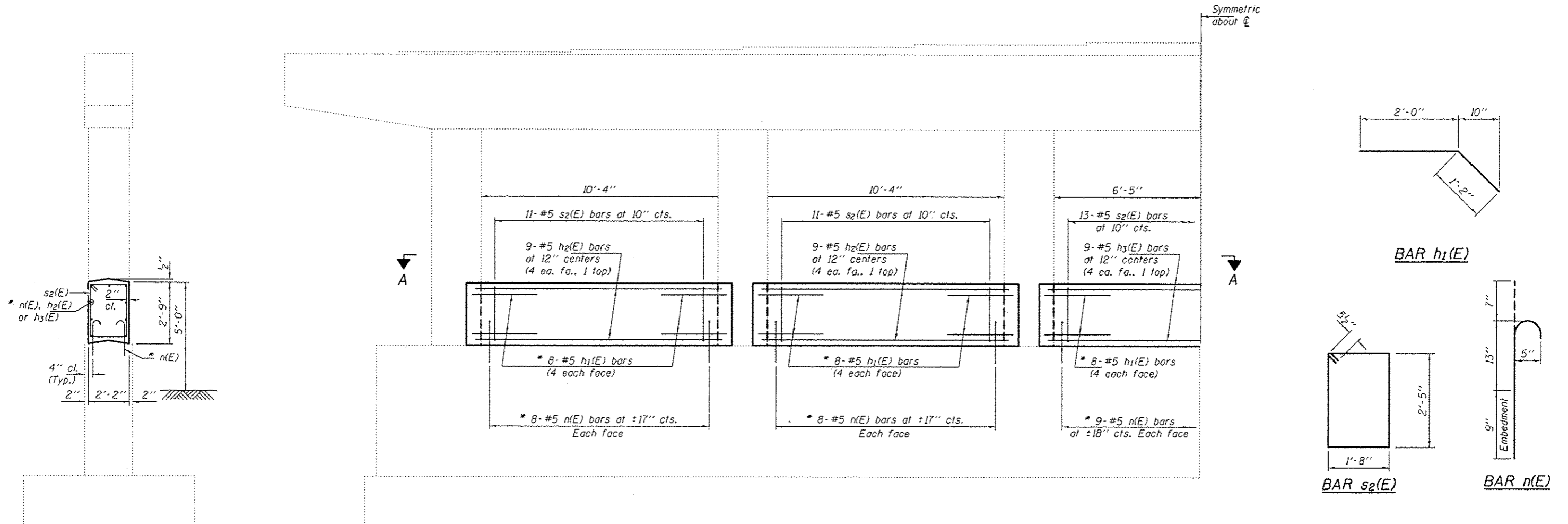
PIER REPAIR DETAILS
 SN 012-0048

SHEET NO. 7 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	(18,12-49)RS-3, 112-49, HB-21BR	CLARK	70	42
CONTRACT NO. 74689			ILLINOIS FED. AID PROJECT	

NOTES

The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated.



SECTION

* Epoxy grout h₁(E) & n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.

ELEVATION

SECTION A-A

**BILL OF MATERIAL
(3 PIERS)**

Bar	No.	Size	Length	Shape
h ₁ (E)	240	#5	3'-2"	—
h ₂ (E)	108	#5	10'-11"	—
h ₃ (E)	27	#5	13'-5"	—
n(E)	246	#5	2'-5"	—
s ₂ (E)	171	#5	9'-1"	□
Concrete Structures			Cu. Yd.	37.3
Reinforcement Bars, Epoxy Coated			Pound	4640

DESIGNED SMR
 CHECKED VHV
 DRAWN baliva
 CHECKED SMR VHV

PASSED

 ACTING ENGINEER OF BRIDGES AND STRUCTURES

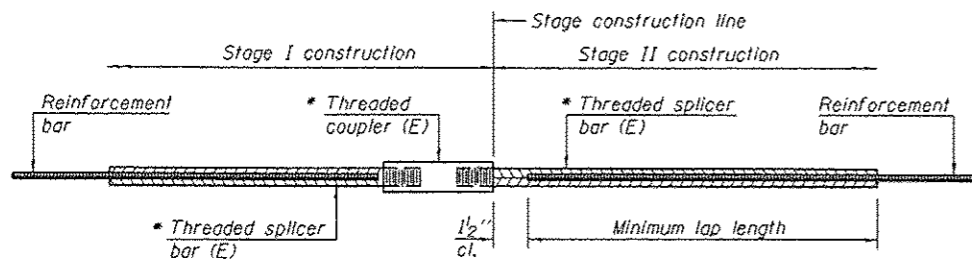
DATE APRIL 15, 2015
 REVISED
 REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CRASHWALL EXTENSION PIERS 1, 2 & 3
 SN 012-0048

SHEET NO. 8 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO	118, 12-491RS-3, 112-49, HB-21BR	CLARK	70	43
CONTRACT NO. 74689				
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY

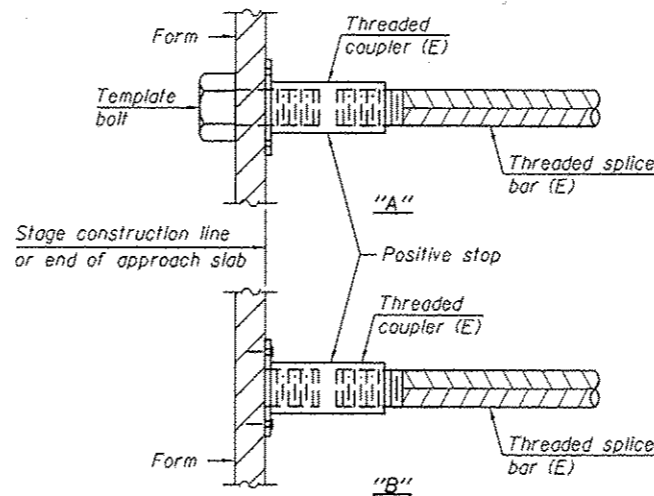
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

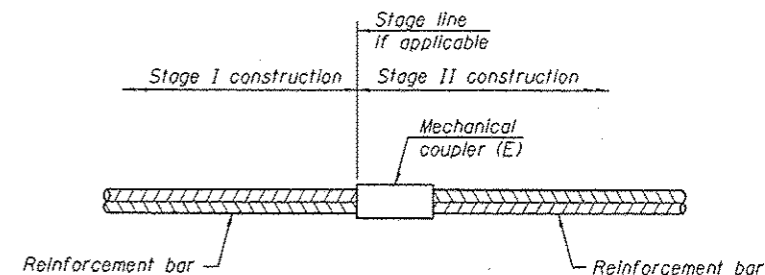
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



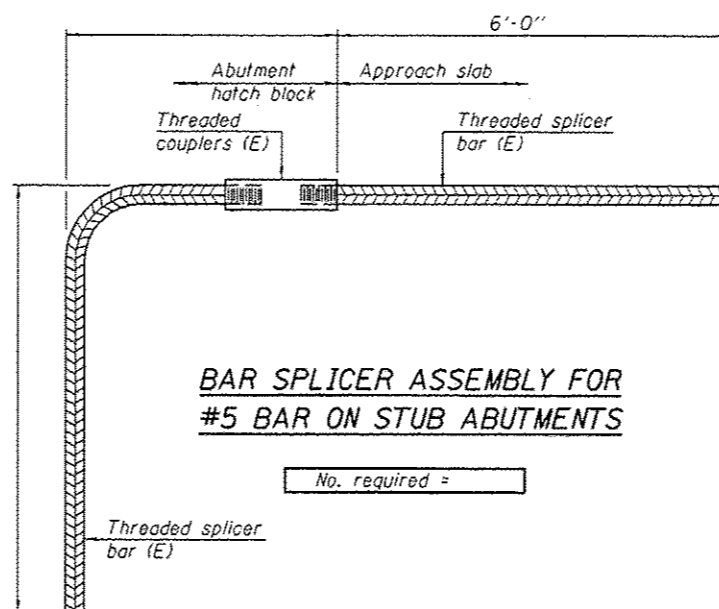
INSTALLATION AND SETTING METHODS

"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
Deck	#6	220
Deck	#5	14
Parapet	#8	2
Parapet	#5	2
Pier cap	#10	12
Pier cap	#8	5
Pier cap	#5	4



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.

BSD-1 8-31-12

DESIGNED SMR
 CHECKED VHV
 DRAWN baliva/ Steffen
 CHECKED SMR VHV

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DATE APRIL 15, 2015
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 SN 012-0048

SHEET NO. 9 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	118,112-191RS-3, 112-49, ND-21BR	CLARK	10	44

CONTRACT NO. 74689
 ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

Pavement Sensor and Sub-Surface Temperature Probe Installation Manual

VAISALA

194 South Taylor Avenue
Louisville, Colorado 80027
Phone: (303)499-1701

Part Number: 00000003
Rev. B
November 3, 2010

B	Converted Vaisala Format, Removed Active Sensor Pages	TS	11/02/2010		11/02/2010
1	Active Sensor Installation Drawings	JJK	11/01/02		11/11/02
0	Initial Release	DMC	02/29/01		02/29/01
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•(18,12-49)RS-3,(12-49,HB-2)BR

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PVT SENSOR & SUB-SURFACE TEMP PROBE INSTALLATION MANUAL	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE: N/A	SHEET 1 OF 20 SHEETS STA. TO STA.		CONTRACT NO. 94689		
	PLOT DATE = 3/25/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT					

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				SHEET TC OF TC

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Pavement Sensor & Temperature Probe INSTALLATION INSTRUCTIONS

PAVEMENT SENSORS AND TEMPERATURE PROBES INSTALLED AS DETAILED IN THE ATTACHED DRAWINGS WILL BE COVERED BY THE VAISALA WARRANTY.

INSTALLATION SHOULD BE PERFORMED ON A WARM, DRY DAY WITH AIR TEMPERATURE ABOVE 40 DEGREES F. AN EPOXY ENCAPSULATING COMPOUND IS USED TO INSTALL THE PAVEMENT SENSOR HEAD, AND INSTALLATION ON COLDER DAYS MAY RESULT IN THE EPOXY NOT CURING OR SETTING.

THE FOLLOWING WARNINGS AND PRECAUTIONS APPLY TO THE EPOXY ENCAPSULATING COMPOUND IN INJECTOR CARTRIDGES AND THE SETTING COMPOUND (Steel Putty).

MANUFACTURER'S WARNING:

HARMFUL IF SWALLOWED. CAUSES EYE AND SKIN IRRITATION. USE SUITABLE EYE PROTECTION. AVOID BREATHING VAPOR. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING.

IN CASE OF CONTACT:

IMMEDIATELY FLUSH EYES AND SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. FOR EYES, SEE A PHYSICIAN. WASH CLOTHING BEFORE RE-USE.

STORAGE:

ALL EPOXY MATERIAL MUST BE STORED BETWEEN 40 AND 90 DEGREES F. ALLOWING MATERIAL TO FREEZE WILL VOID EPOXY MATERIAL WARRANTY. MAXIMUM SHELF LIFE IS 6 MONTHS.

MANUFACTURER AND/OR SELLER ARE NOT RESPONSIBLE FOR THE RESULTS OBTAINED WHEN THE PRODUCT IS USED UNDER CONDITIONS BEYOND OUR CONTROL.

REFER TO MATERIAL SAFETY DATA SHEETS SUPPLIED WITH SENSOR INSTALL KIT FOR COMPLETE DETAILS.

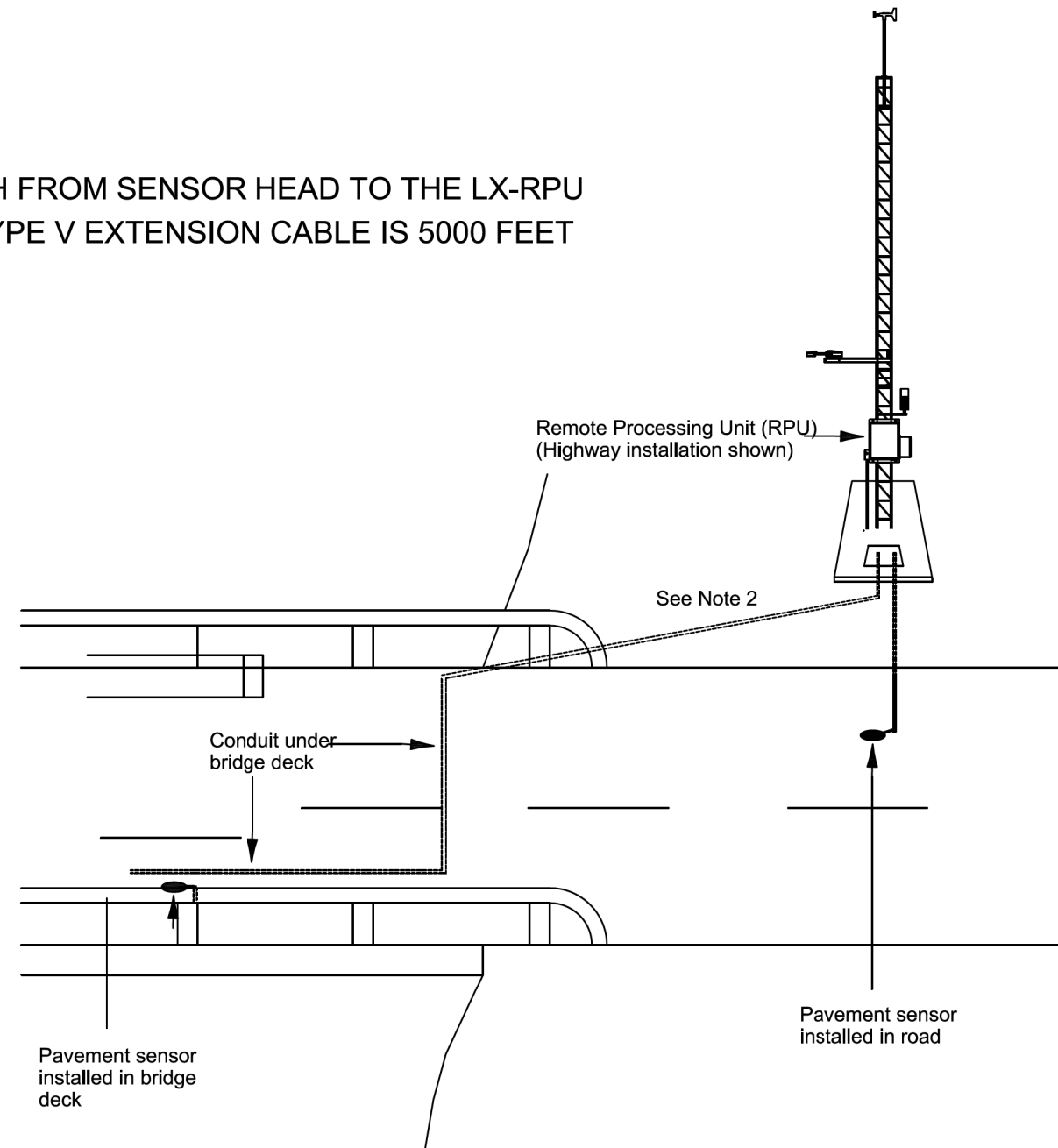
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1	Active Sensor Installation Drawings	JJK	11/11/02	11/11/02
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			SCALE: None	DWG. NO. DOC220141

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Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -			CONTRACT NO. 94689		ILLINOIS FED. AID PROJECT		

SCALE: N/A SHEET 3 OF 20 SHEETS STA. TO STA.

MAXIMUM CABLE LENGTH FROM SENSOR HEAD TO THE LX-RPU
UTILIZING A SPLICE KIT AND TYPE V EXTENSION CABLE IS 5000 FEET



Notes:

1. Pavement sensors and sub-surface temperature probes are supplied standard with 150, 300, and 500 feet of Type IIA Sensor cable attached.
2. THE MAXIMUM CABLE DISTANCE BETWEEN PAVEMENT AND SUB-SURFACE TEMPERATURE SENSORS AND THE RPU IS 5000 FEET.

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			OF	
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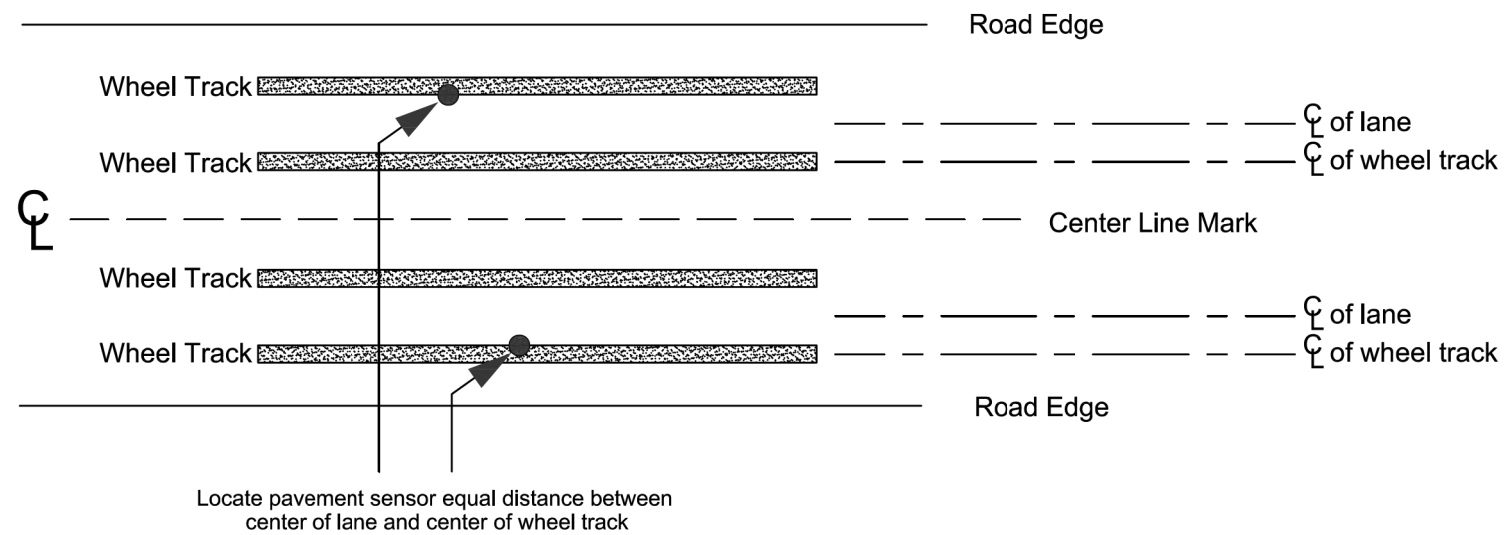
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PVT SENSOR & SUB-SURFACE TEMP
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70	•	CLARK	70	48
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VAISALA's Recommended Location of Pavement Sensors *



Note:

1. Conditions may exist requiring alternative pavement sensor placement from those shown.
2. For bridge deck installations, pavement sensor location may need to be adjusted from that shown due to the under structure of the bridge.

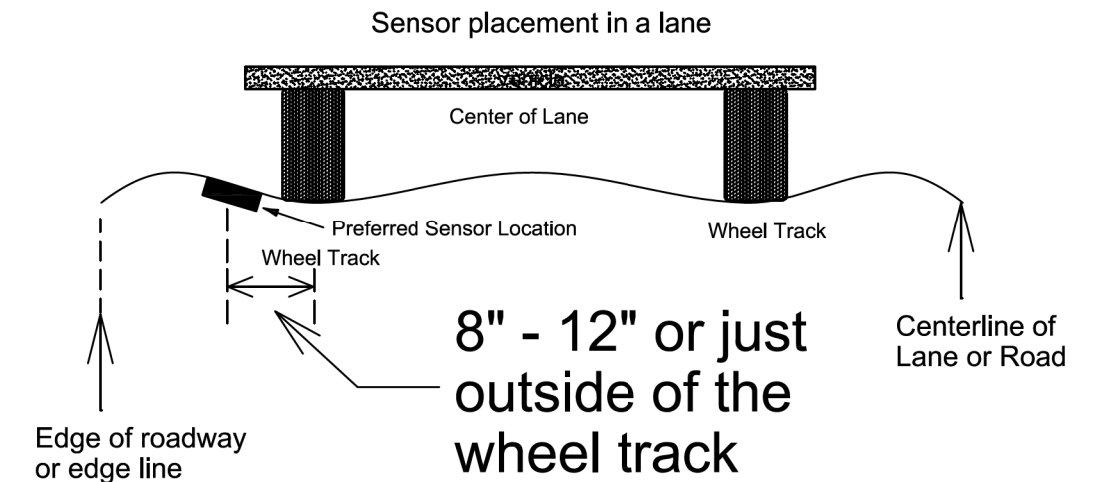
SHRP's Recommended Location of Pavement Sensors *

Note:

* Obtained from the Strategic Highway Research Program, SHRP-H-351, Road Weather Information Systems, Volume 2: Implementation Guide. Refer to this Volume for more information.

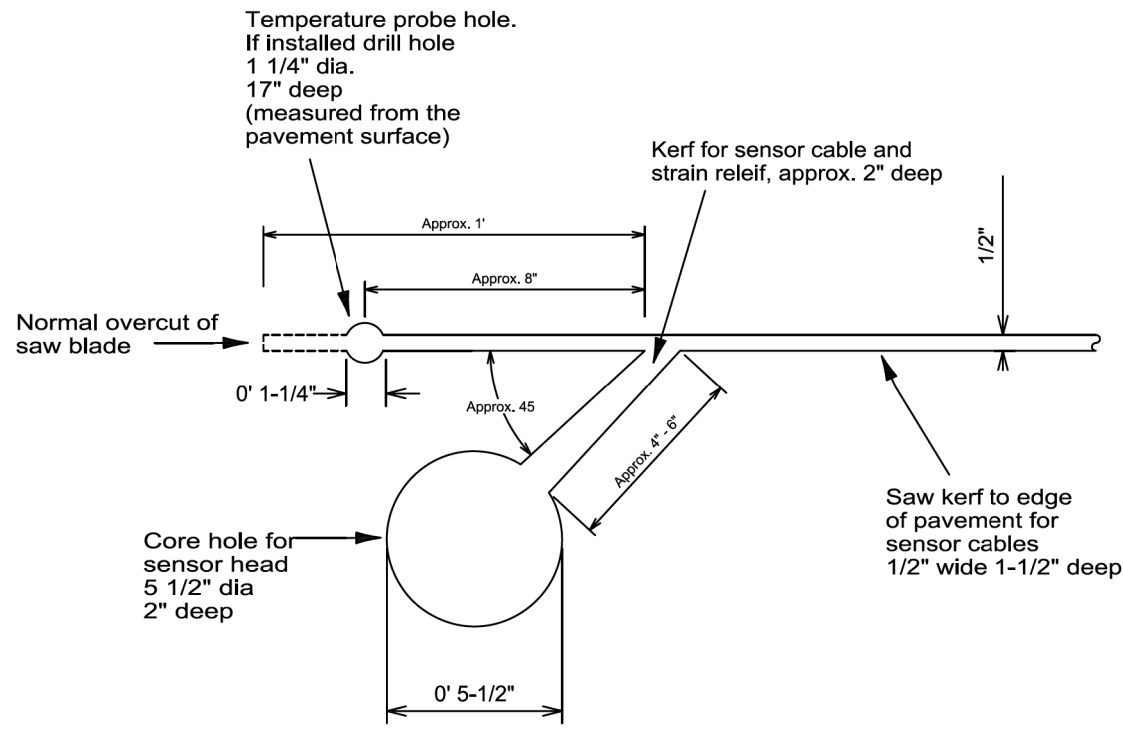
Primary Use of Sensors	Location of Pavement Sensors within Lanes			
	Urban (Commuter Route)		Rural (Non-commuter Route)	
	Multi-lane Road	Two-lane Road	Multi-lane Road	Two-lane Road
Prediction	Just outside of outside wheel track of outbound passing lane	Just outside of outside wheel track of outbound lane	Just outside of a wheel track of a passing lane	Just outside of a wheel track of either lane
Detection	Just inside of outside wheel track of inbound through lane	Just inside of outside wheel track of inbound lane	Just outside of a wheel track of a through lane	Just outside of a wheel track of either lane
Monitoring	Use prediction placement whenever possible			

Sensor Placement in a Lane

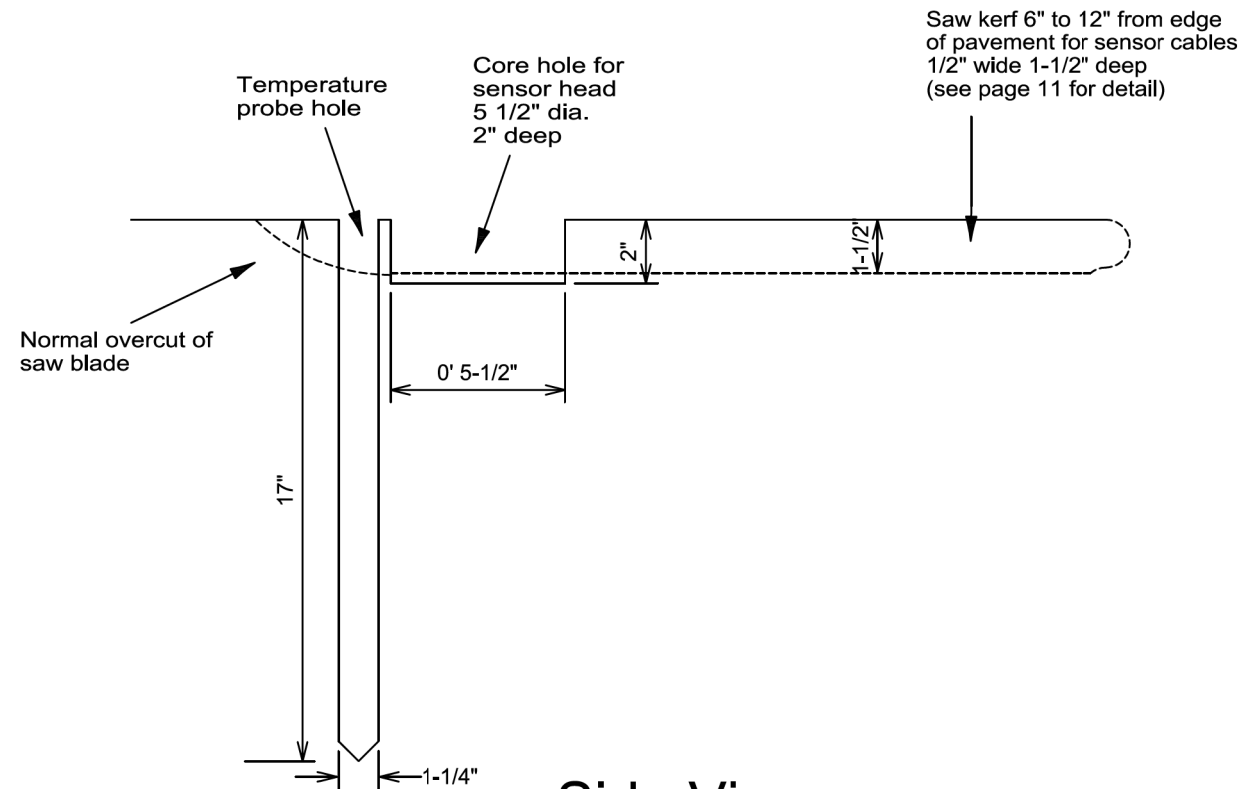


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		SCALE: None	DWG. NO.	DOC220141

•(18,12-49)RS-3,(12-49,HB-2)BR



Top View



Side View

Notes:

1. Cut saw kerf using a single 1/2" wide blade.
2. Clean and dry core hole and saw kerf with compressed air prior to performing any sensor installation.
3. Core hole for pavement sensor 5 1/2" diameter, absolute maximum core hole diameter is 5 3/4".

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			SHEET 4 OF 18	

•(18,12-49)RS-3,(12-49,HB-2)BR

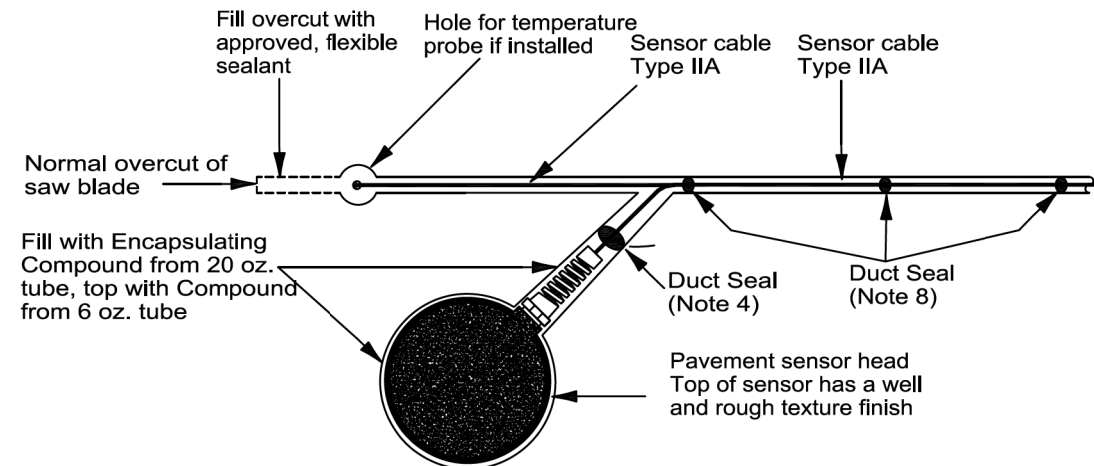
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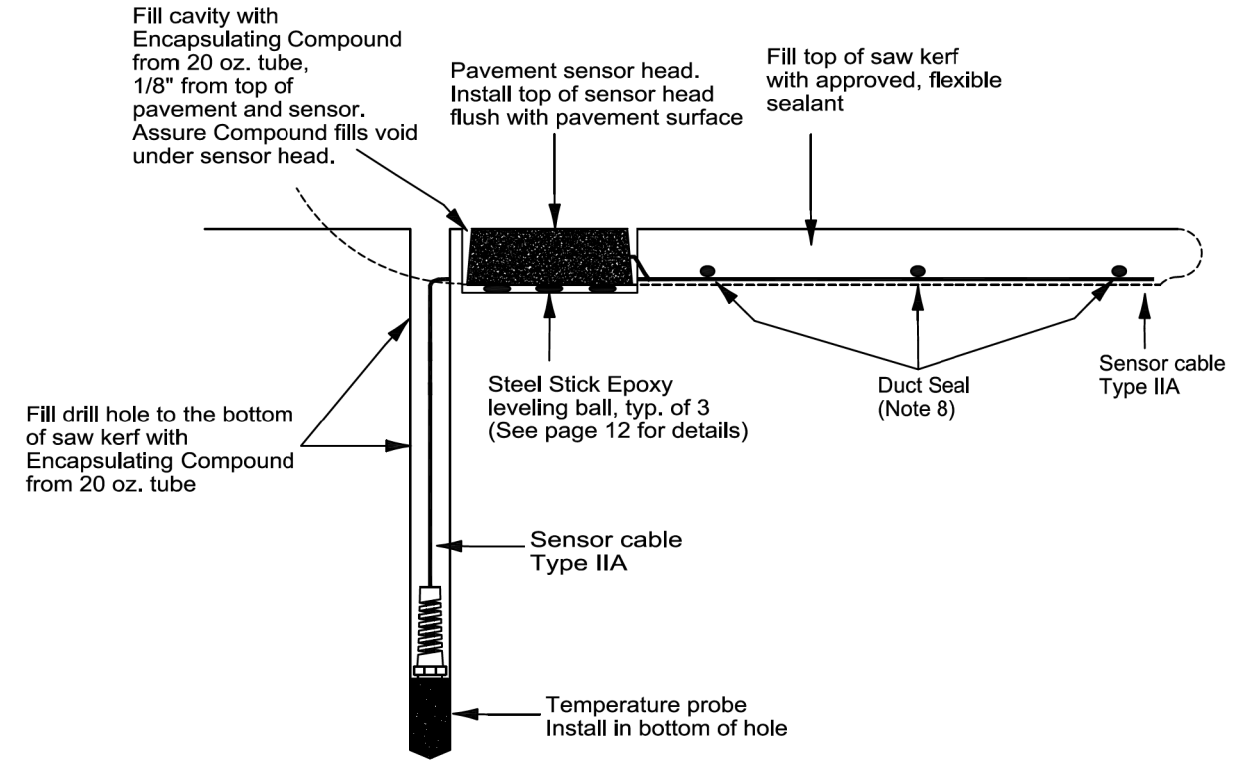
PVT SENSOR & SUB-SURFACE TEMP
PROBE INSTALLATION MANUAL

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	CLARK	70	50
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Top View

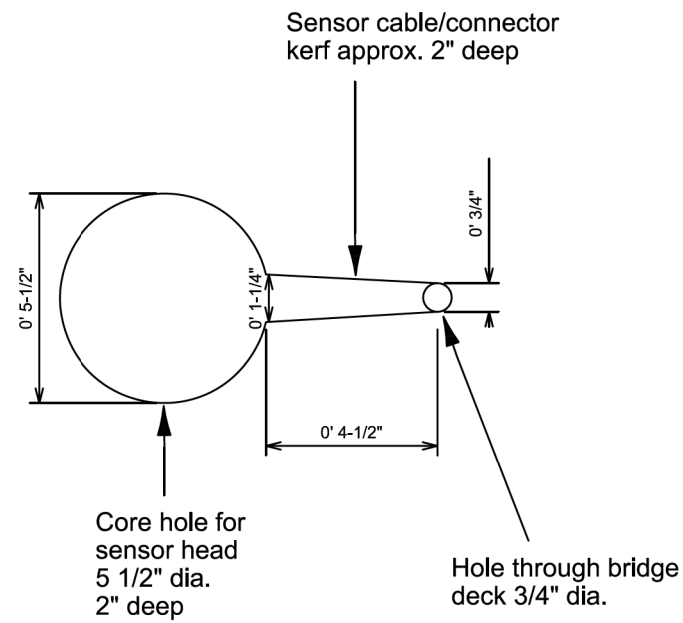


Side View

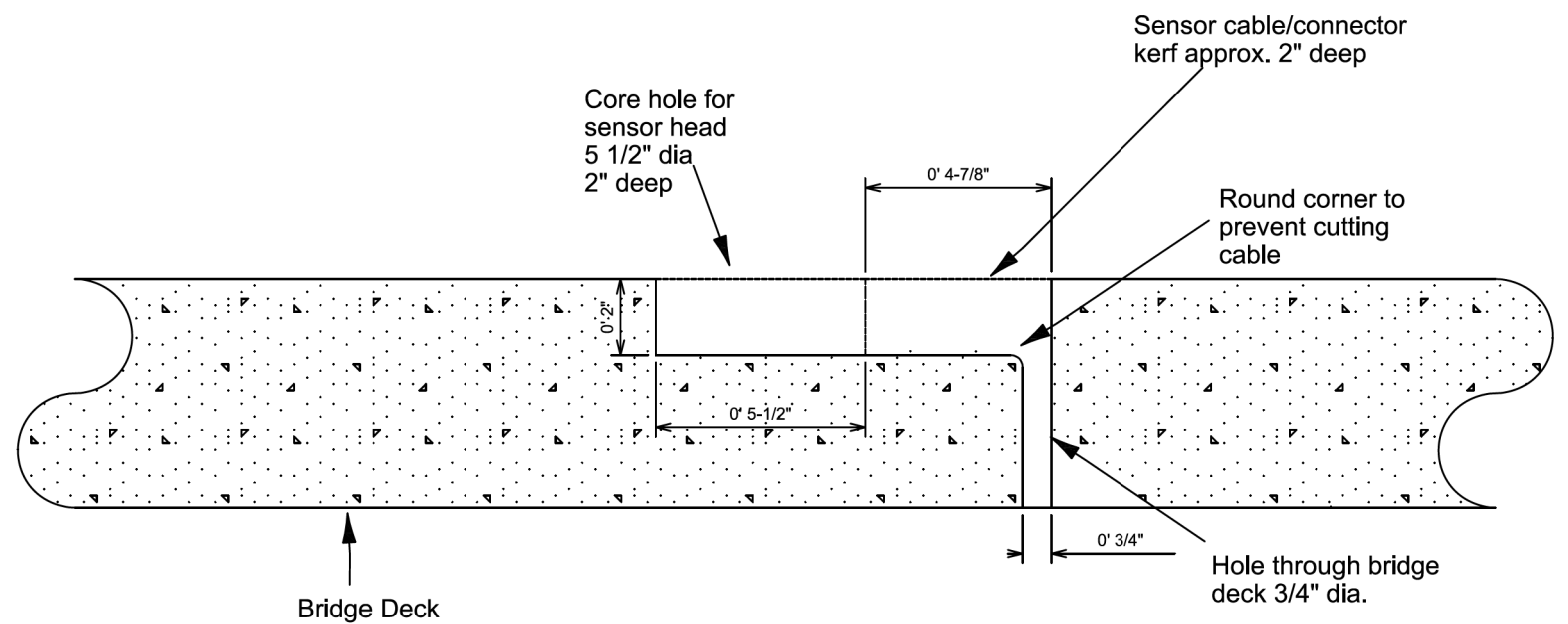
Notes: Sequence of Installation Procedures:

1. After coring and drilling per specifications as shown on page 4 of installation manual, clean and dry core hole and saw kerfs with dry compressed air prior to installation of sensor head, temperature probe or cables.
2. Prepare and install Steel Stick Epoxy (refer to page 12 for details).
3. Place sensor head in core and level to surface of pavement (refer to page 12 for details)
4. Place duct seal outside of surface sensor strain relief above and below Type IIA cable as a dam to keep encapsulating epoxy from running down saw kerf. (refer to page 16 for details)
5. Mix 20 oz. tube of Encapsulation Epoxy (see page 13 for details)
NOTE: Epoxy should be used within 5 minutes after the mixing process.
6. Pour epoxy around sensor head (refer to page 16 for details)
7. Wait until epoxy hardens (approximately 30 minutes @ 70 degrees F).
Mix 6 oz. Topcoat Epoxy (refer to page 13 for details)
and pour around sensor head (refer to page 17 for details)
NOTE: Do not allow traffic over sensor head until Topcoat Epoxy is dry to the touch.
8. Place a small amount duct seal in saw kerf on top of cable approximately every 2 feet to prevent cable from floating when kerf is filled with sealant. (refer to drawing above)
9. Fill kerf with 3M DSL 5000 Detector Loop Sealant,

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Top View



Side View

Notes:

1. Obtain approval of bridge owner's engineer prior to drilling/cutting bridge deck.
2. Pavement sensor location may need to be adjusted due to the under structure of the bridge.

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	VAISALA	SCALE: None	DWG. NO. DOC220141

•(18,12-49)RS-3,(12-49,HB-2)BR

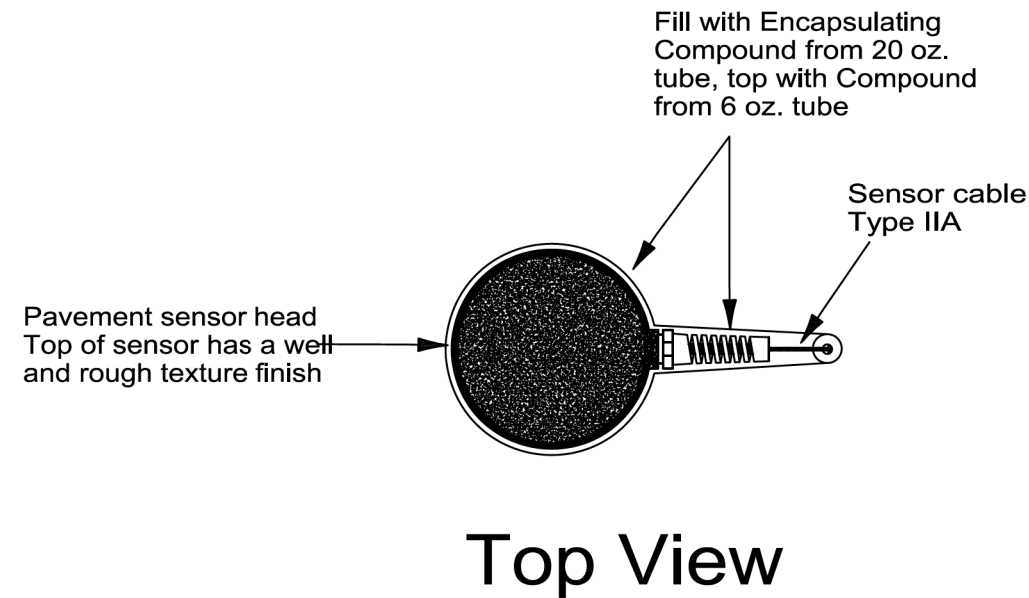
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PVT SENSOR & SUB-SURFACE TEMP
PROBE INSTALLATION MANUAL

SCALE: N/A SHEET 8 OF 20 SHEETS STA. TO STA.

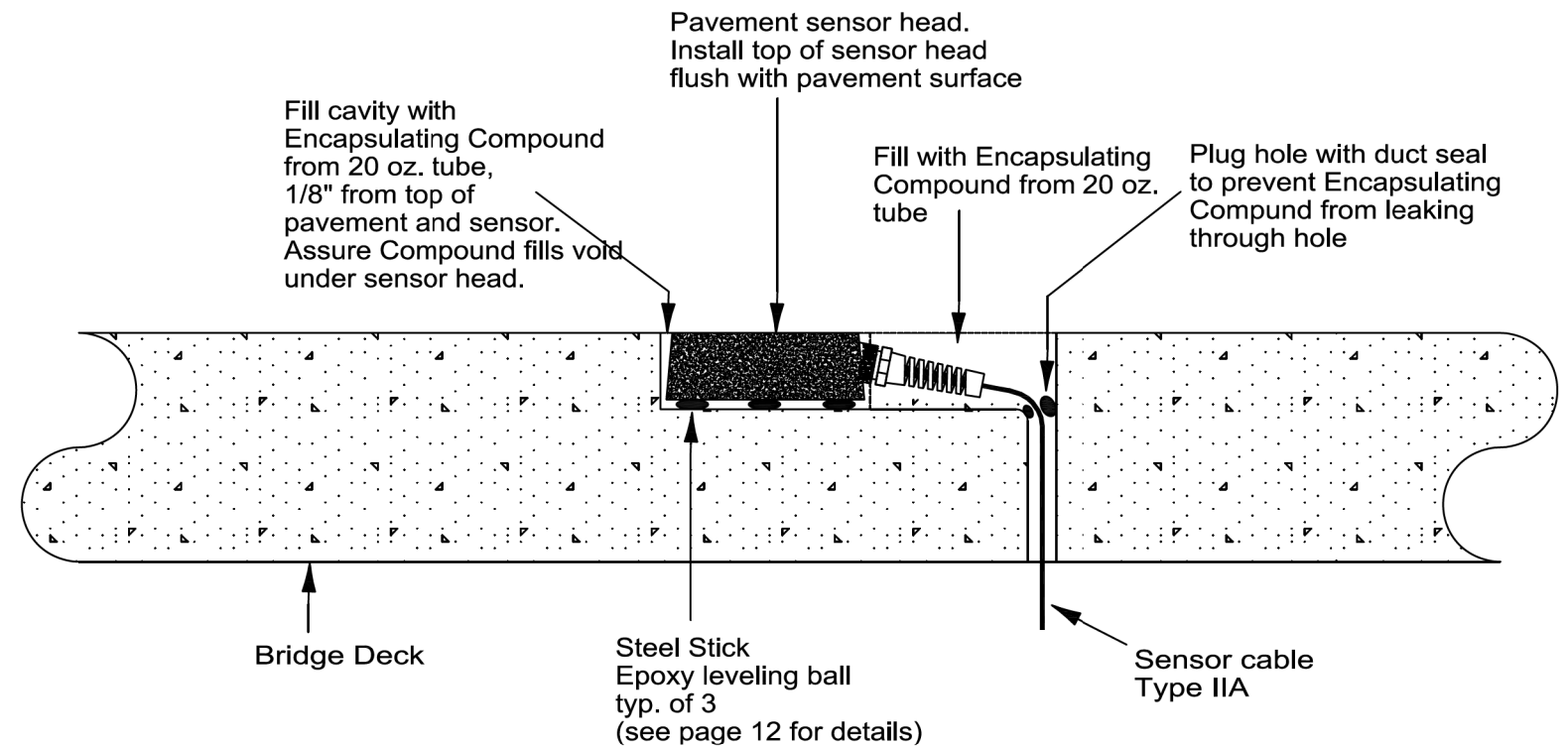
F.A.I R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	.	CLARK	70	52
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Top View

Notes:

1. Clean and dry core hole and cable kerfs with compressed air prior to installation of sensor head or cables.



Side View

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		SCALE: None	DWG. NO. DOC220141

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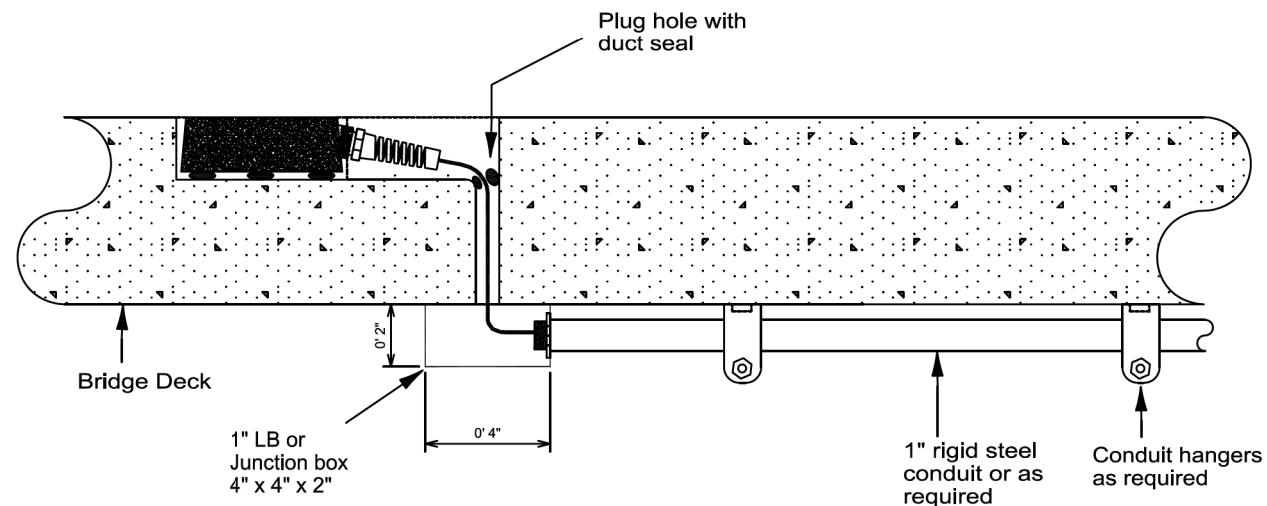
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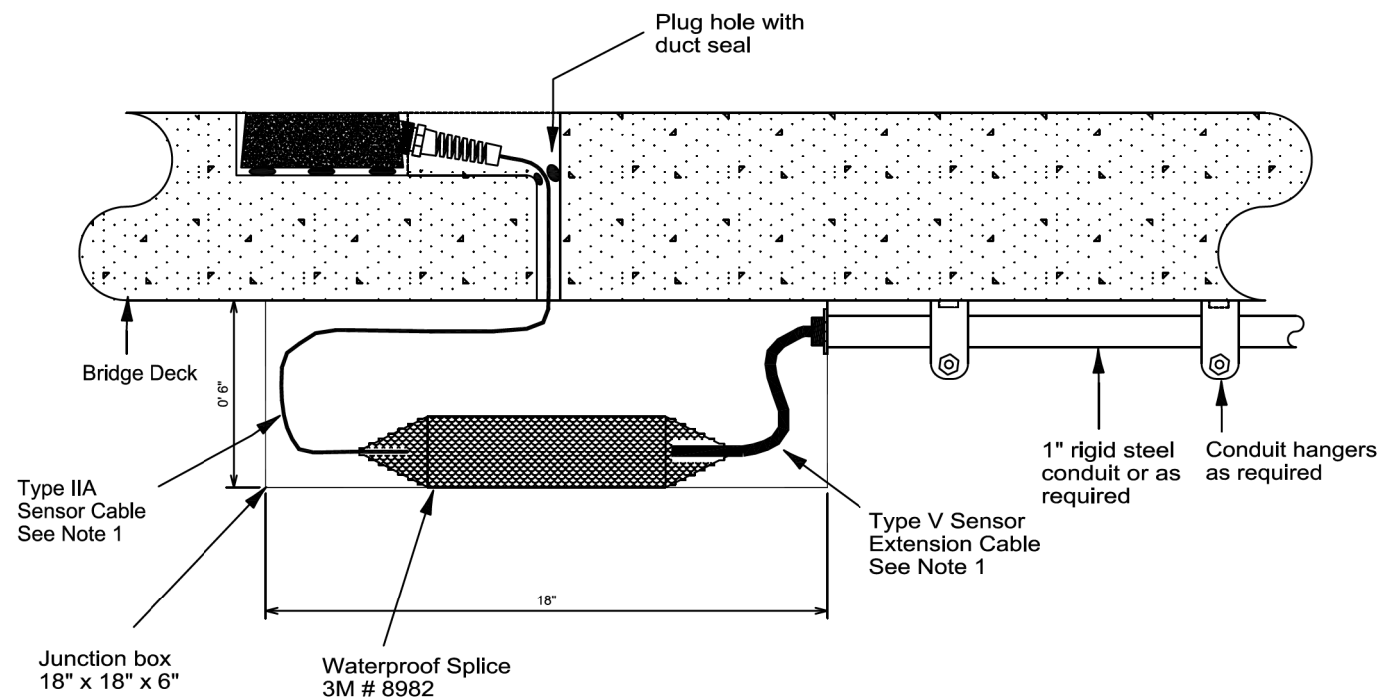
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F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70		CLARK	70	53
			CONTRACT NO. 94689	
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Cable Installation under Bridge Deck

- Notes:
1. Leave, as much as possible, extra Type IIA sensor cable, Type V sensor extension cable in junction box to enable splicing outside of junction box and replacing splices



Sensor Cable Splice under Bridge Deck

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			SCALE: None	OF 18
			DWG. NO.	DOC220141

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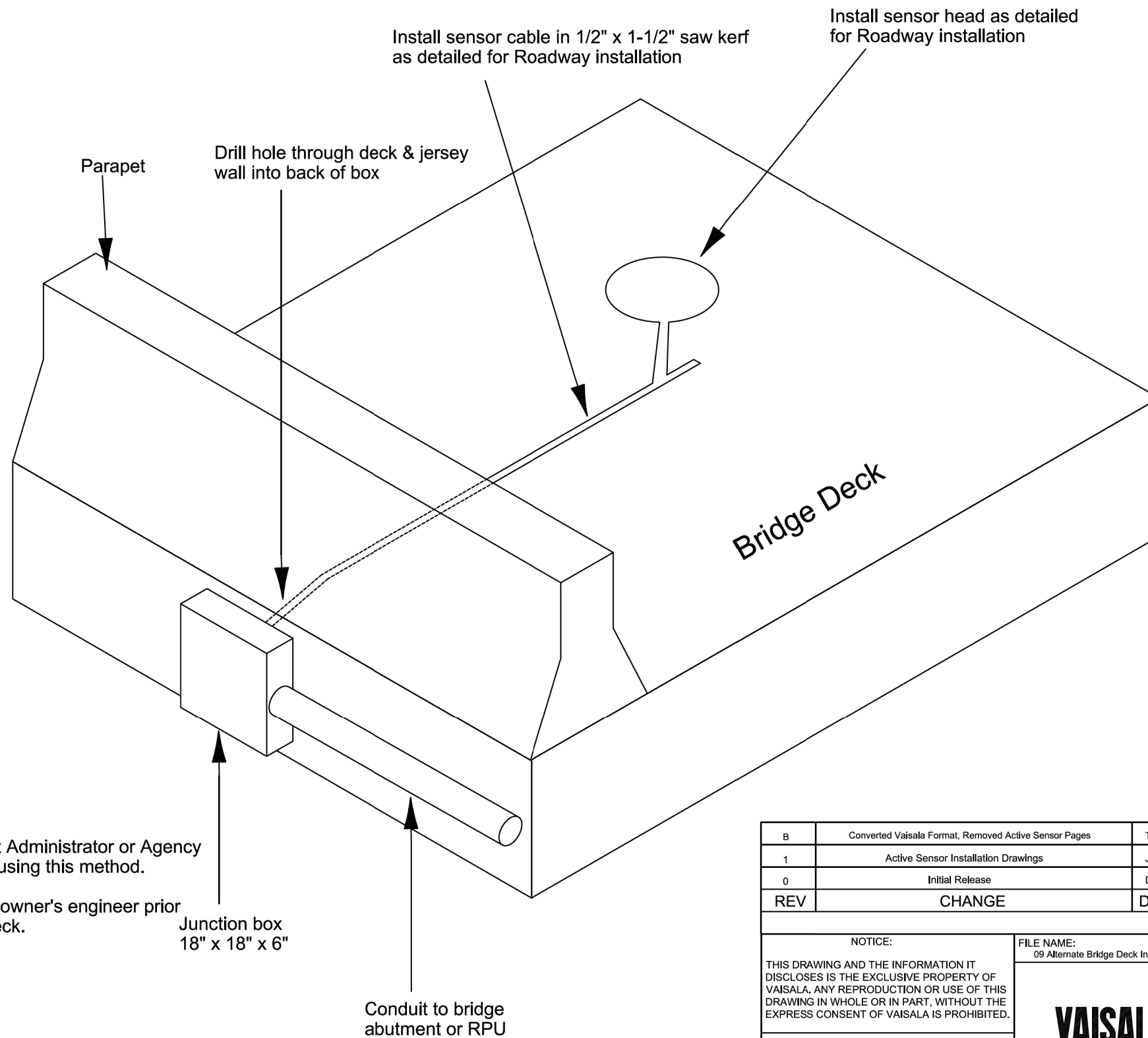
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70	•	CLARK	70	54
CONTRACT NO. 94689				
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Note:

1. Obtain approval of Project Administrator or Agency prior to installing sensors using this method.
2. Obtain approval of bridge owner's engineer prior to drilling/cutting bridge deck.

Junction box
18" x 18" x 6"

Conduit to bridge
abutment or RPU

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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES, WITH THE FOLLOWING TOLERANCES:		VAISALA		SCALE: None DWG. NO. <div style="text-align: right; font-size: 1.2em;">DOC220141</div>
				SHEET <div style="font-size: 1.5em; font-weight: bold;">9</div> OF <div style="font-size: 1.5em; font-weight: bold;">18</div>

•(18,12-49)RS-3,(12-49,HB-2)BR

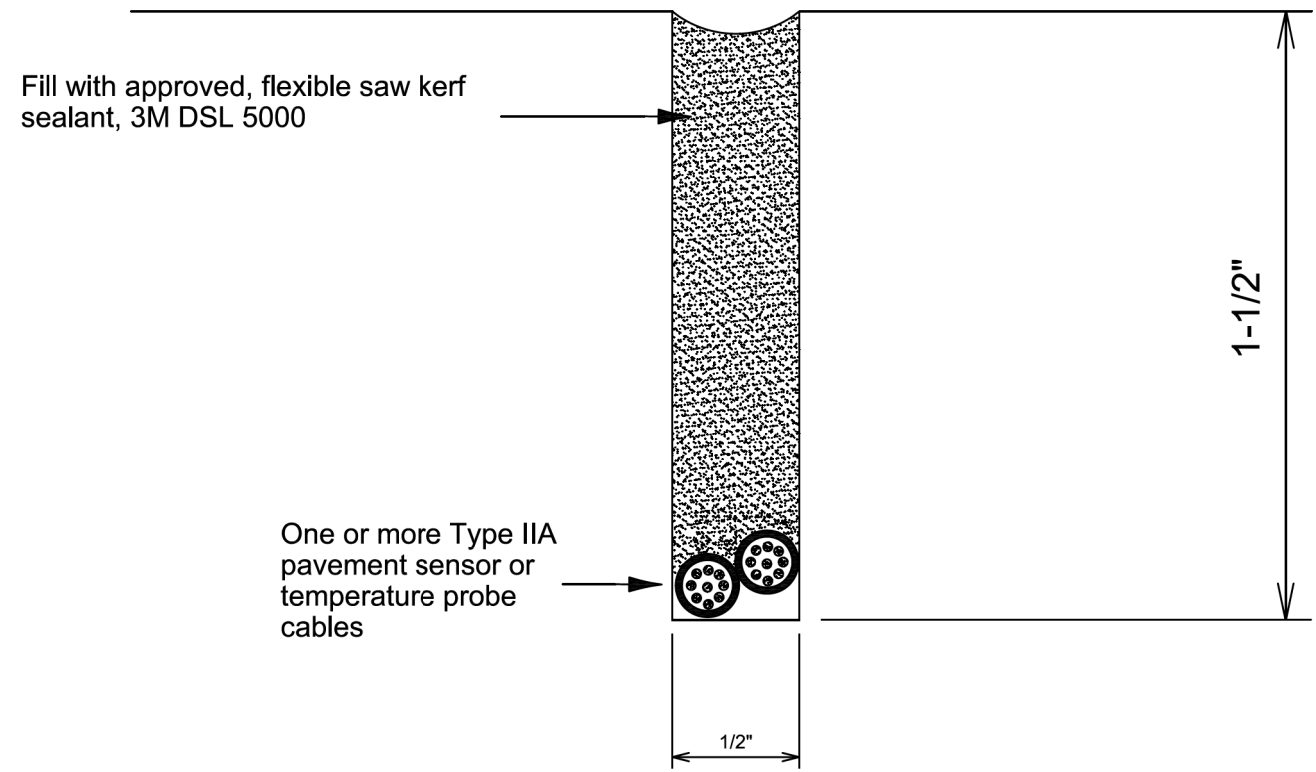
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/25/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PVT SENSOR & SUB-SURFACE TEMP
PROBE INSTALLATION MANUAL**

SCALE: N/A SHEET 11 OF 20 SHEETS STA. TO STA.

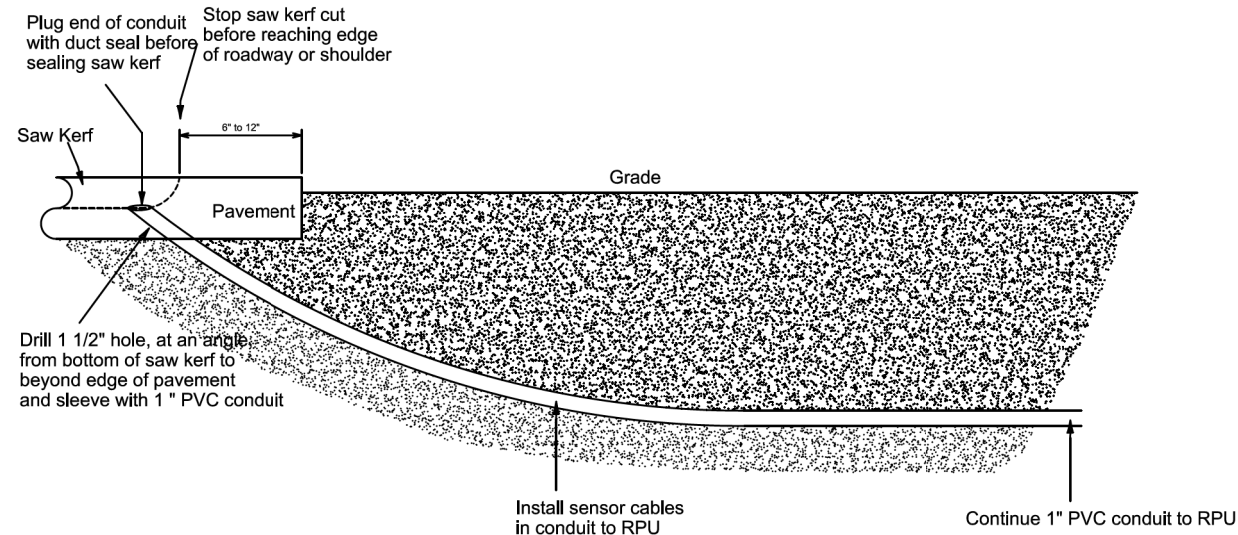
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	CLARK	70	55
			CONTRACT NO. 94689	
ILLINOIS FED. AID PROJECT				



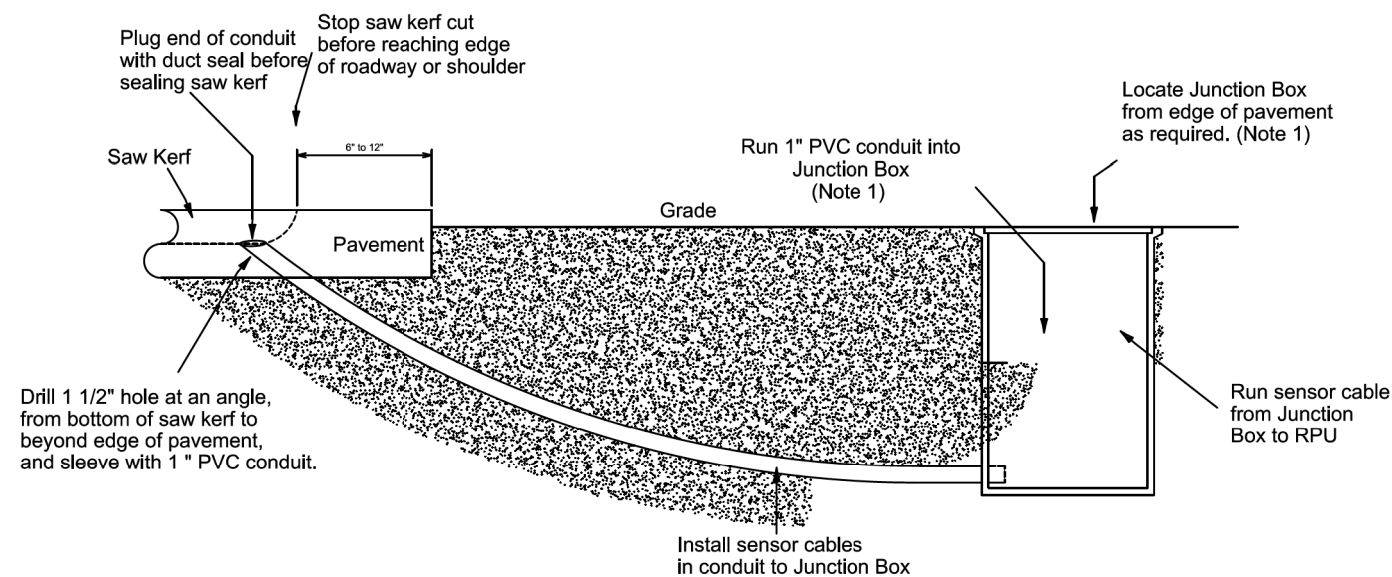
Saw Kerf Cross Section View

REV	CHANGE	DRAWN BY	DATE	ISSUE DATE
B	Converted Vaisala Format, Removed Active Sensor Pages	TS	11/02/2010	11/02/2010
1	Active Sensor Installation Drawings	JJK	11/01/02	11/11/02
0	Initial Release	DMC	6/25/01	6/25/01

REVISIONS			
NOTICE:	FILE NAME:	PART / ITEM	SHEET
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	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES, WITH THE FOLLOWING TOLERANCES:		OF
	VAISALA	SCALE: None	18
		DWG. NO. DOC220141	



Use this installation method for pavement sensor to RPU when splicing is not required
 (When sensor run to RPU is less than supplied sensor cable length provided with project)



Use this installation method for pavement sensor to RPU when splicing is required
 (When sensor run to RPU is more than supplied sensor cable length provided with project)

Notes:

1. Junction Box and conduit shall be supplied by installation contractor.

0	Converted Vaisala Format, Removed Active Sensor Pages	TS	11/02/2010	11/02/2010
1	Active Sensor Installation Drawings	JJK	11/01/10	11/11/10
0	Initial Release	DMC	02/25/01	02/25/01
REV	CHANGE	DRAWN BY	DATE	ISSUE DATE
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FILE NAME: 11 Sensor Cable Pavement Edge Installation		PART / ITEM: Sensor Cable-Pavement Edge Installation		SHEET NO.: 11 OF 18
VAISALA		SCALE: None	DWG. NO.: DOC220141	

•(18,12-49)RS-3,(12-49,HB-2)BR

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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/25/2015	DATE -	REVISED -

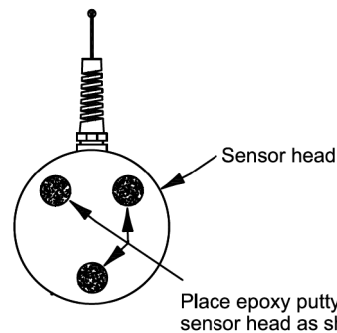
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PVT SENSOR & SUB-SURFACE TEMP
 PROBE INSTALLATION MANUAL

SCALE: N/A SHEET 13 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	CLARK	70	57
CONTRACT NO. 94689				
ILLINOIS FED. AID PROJECT				

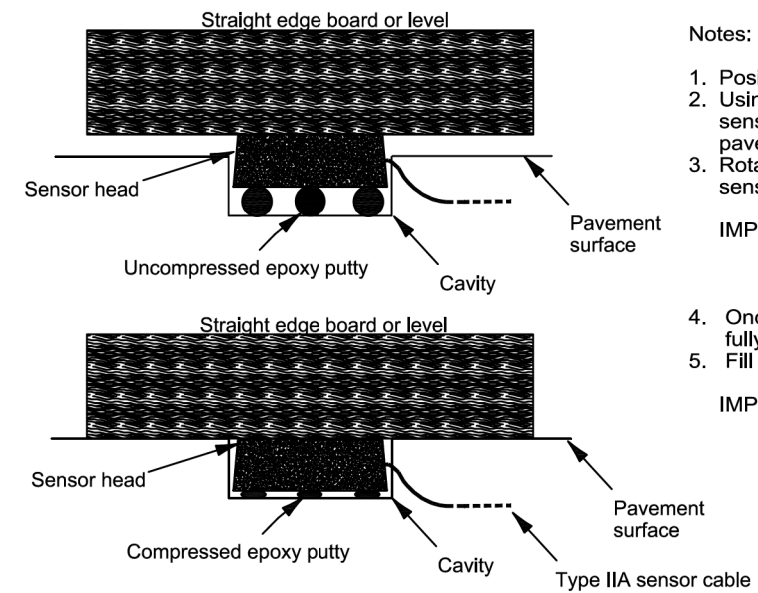
Sensor Head Supports



Notes:

1. Assure BOTTOM of sensor head and cavity are clean and dry
2. Locate Flexmaster Steel-Stick (epoxy putty) supplied with sensor head.
WEAR RUBBER GLOVES WHEN HANDLING.
3. THE MIXED EPOXY PUTTY IS ONLY WORKABLE FOR 4 MINUTES.
4. Mix material by kneading and pinching with hands about 2 minutes or until warm (indicating chemical curing has started).
5. Divide putty into 3 equal size balls.
6. Push epoxy putty balls on to the BOTTOM of sensor head as shown.
7. Proceed to install sensor head as detailed below.

Positioning the Sensor Head



Notes:

1. Position sensor head in center of cavity.
2. Using straight edge board or level, push down on top of sensor head making top of sensor FLUSH with surrounding pavement.
3. Rotate straight edge board or level, pushing down to assure sensor head is FLUSH with surrounding pavement.

IMPORTANT NOTE: THE EPOXY PUTTY IS ONLY WORKABLE FOR 4 MINUTES. THE SENSOR MUST BE SET FLUSH WITHIN THIS TIME PERIOD.

4. Once sensor head is set allow 10 minutes for epoxy putty to fully cure, securing sensor head into cavity.
5. Fill cavity with encapsulating compound.

IMPORTANT NOTE: THE SENSOR HEAD MUST BE FLUSH WITH THE SURROUNDING PAVEMENT SURFACE. DO NOT PUSH SENSOR HEAD BELOW FLUSH OR LEAVE HIGHER THAN SURROUNDING PAVEMENT !

MANUFACTURER'S WARNING:
COMPOUNDS ARE HARMFUL IF SWALLOWED. CAUSES EYE AND SKIN IRRITATION. USE SUITABLE EYE PROTECTION. AVOID BREATHING VAPOR. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. IN CASE OF CONTACT: IMMEDIATELY FLUSH EYES AND SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. FOR EYES, SEE A PHYSICIAN. WASH CLOTHING BEFORE RE-USE.

g	Converted Vaisala Format, Removed Active Sensor Pages	TS	11/02/2010	11/02/2010
1	Active Sensor Installation Drawings	JJK	11/01/02	11/11/02
0	Initial Release	DMC	8/25/01	8/25/01
REV	CHANGE	DRAWN BY	DATE	ISSUE DATE
REVISIONS				
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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES, WITH THE FOLLOWING TOLERANCES:		VAISALA	SCALE: None	DWG. NO. DOC220141
			SHEET 12 OF 18	

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
pw:\IL\084EBID\INTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 7\Projects\74689\Drawings\CAD\Sheets\0774689-sht-pvt-sensor		DRAWN -	REVISION -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/25/2015	DATE -	REVISED -

STATE OF ILLINOIS
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PVT SENSOR & SUB-SURFACE TEMP
PROBE INSTALLATION MANUAL

SCALE: N/A SHEET 14 OF 20 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	*	CLARK	70	58
CONTRACT NO. 94689				
ILLINOIS FED. AID PROJECT				

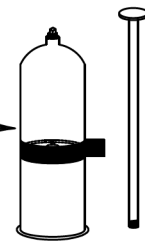
•(18,12-49)RS-3,(12-49,HB-2)BR

Sensor Head Embedding Compounds

20 oz. tube
Encapsulating Compound
with dasher rod

For embedding pavement
sensor head and
temperature probe

Supplied with pavemen
sensor in light gray
color only



6 oz. tube
Top Coat Compound
with dasher rod pre-installed

For filling in level
between pavement sensor
head and pavement surface

Supplied with pavement sensor
Available in two (2) colors
- Light Gray
- Dark Gray

MANUFACTURER'S WARNING:
COMPOUNDS ARE HARMFUL IF SWALLOWED.
CAUSES EYE AND SKIN IRRITATION. USE
SUITABLE EYE PROTECTION. AVOID BREATHING
VAPOR. AVOID CONTACT WITH EYES, SKIN AND
CLOTHING. WASH THOROUGHLY AFTER HANDLING.
IN CASE OF CONTACT:
IMMEDIATELY FLUSH EYES AND SKIN WITH PLENTY
OF WATER FOR AT LEAST 15 MINUTES. FOR EYES,
SEE A PHYSICIAN. WASH CLOTHING BEFORE
RE-USE.

Mixing Instructions Do NOT mix until ready to use

<p>1</p> <p>Unscrew and remove red plug</p> <p>20 oz. tube only</p>	<p>2</p> <p>Insert dasher rod and screw into dasher (approx. 3 turns)</p> <p>20 oz. tube only</p>	<p>3</p> <p>Pull dasher rod all the way UP</p> <p>Remove tape and squeeze cartridge slightly to tear aluminum foil barrier</p> <p>Squeeze</p> <p>Squeeze</p>
<p>4</p> <p>Mix Compound by pumping dasher rod up & down. Rotate dasher rod 1/4 turn clockwise with each pumping stroke.</p> <p>Pump: 20 oz. tube 80 strokes 6 oz. tube 60 strokes</p> <p>(One stroke is one complete in and out cycle)</p>	<p>5</p> <p>With mixing complete, push dasher rod all the way DOWN.</p>	<p>6</p> <p>Remove dasher rod by unscrewing counter clockwise</p> <p>Embedding Compound is now ready for use</p> <p>Invert and pour. Gently squeezing tube will increase pouring rate.</p>

B	Converted Vaisala Format, Removed Active Sensor Pages	TS	11/02/2010	11/02/2010
1	Active Sensor Installation Drawings	JJK	11/01/02	11/11/02
0	Initial Release	DMC	6/25/01	6/25/01
REV	CHANGE	DRAWN BY	DATE	ISSUE DATE
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		VAISALA	Encapsulating Compound MIXING INSTRUCTIONS	13 OF 18
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES, WITH THE FOLLOWING TOLERANCES:			SCALE: None	DWG. NO. DOC220141

•(18,12-49)RS-3,(12-49,HB-2)BR

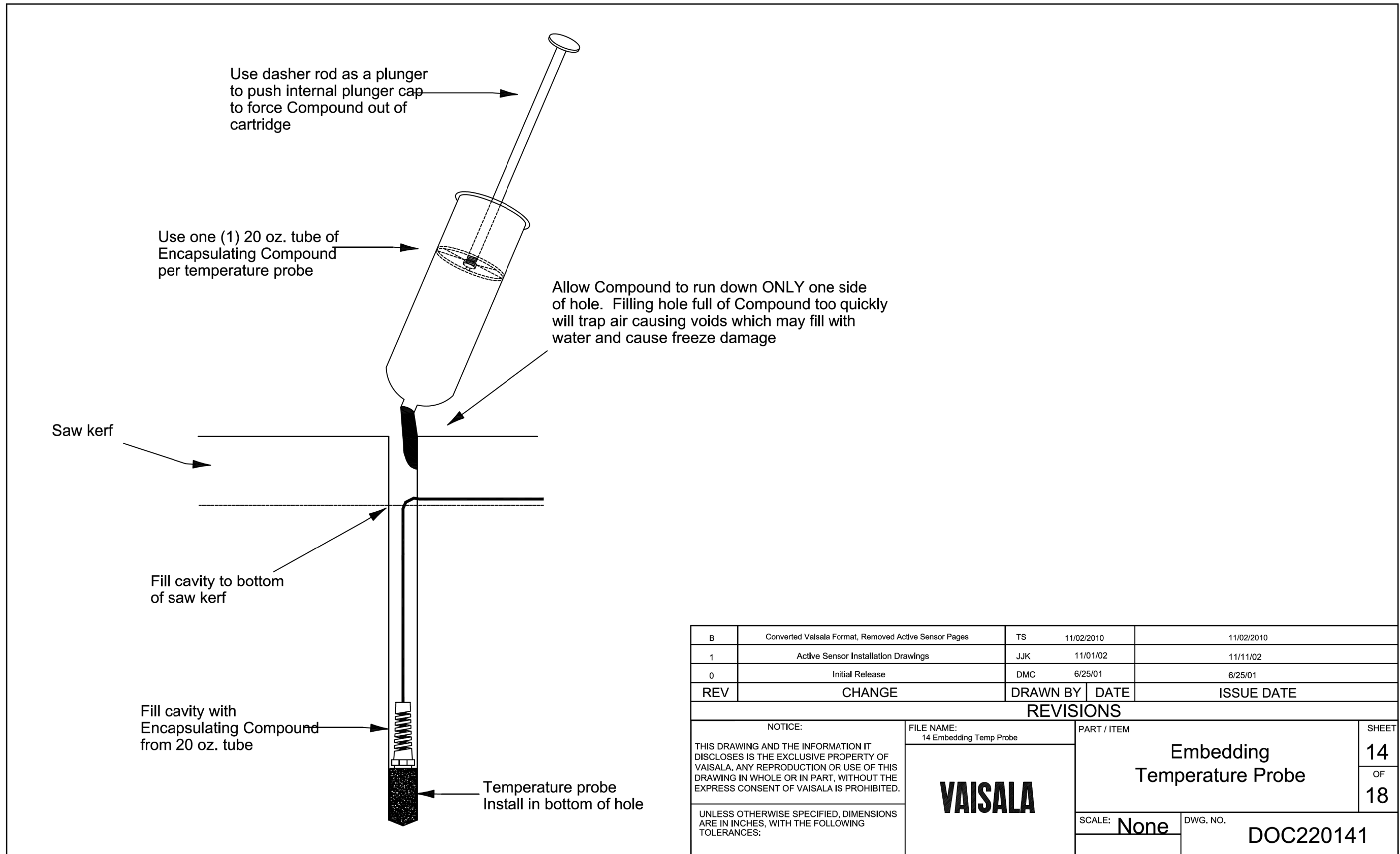
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	DATE = 3/25/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PVT SENSOR & SUB-SURFACE TEMP
PROBE INSTALLATION MANUAL

SCALE: N/A SHEET 15 OF 20 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	CLARK	70	59
CONTRACT NO. 94689				
ILLINOIS FED. AID PROJECT				

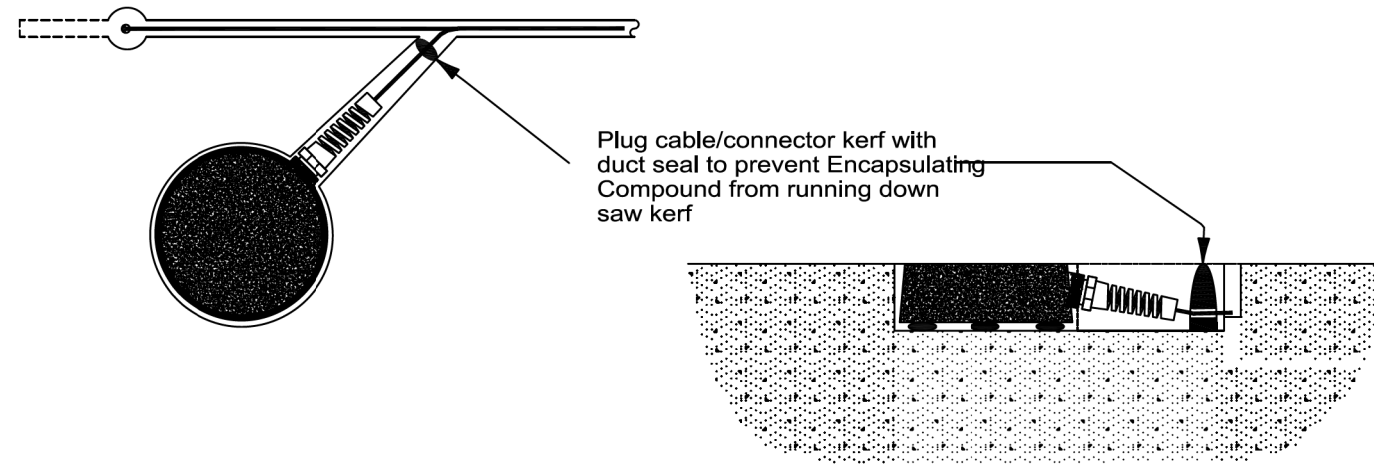


B	Converted Vaisala Format, Removed Active Sensor Pages	TS	11/02/2010	11/02/2010
1	Active Sensor Installation Drawings	JJK	11/01/02	11/11/02
0	Initial Release	DMC	6/25/01	6/25/01
REV	CHANGE	DRAWN BY	DATE	ISSUE DATE

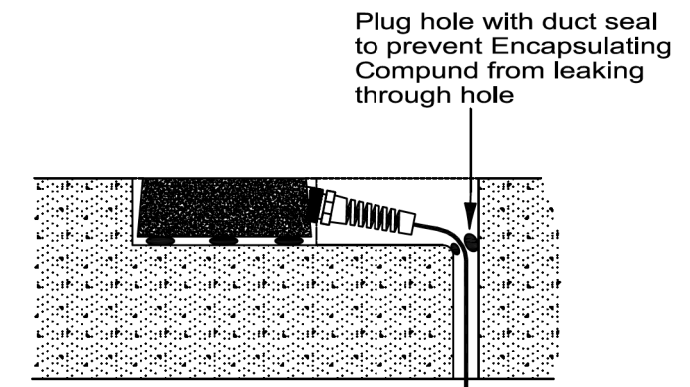
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		SCALE: None	DWG. NO. DOC220141

•(18,12-49)RS-3,(12-49,HB-2)BR



Roadway Installation



Bridge Deck Installation

B	Converted Vaisala Format, Removed Active Sensor Pages	TS	11/02/2010	11/02/2010
1	Active Sensor Installation Drawings	JJK	11/01/02	11/11/02
0	Initial Release	DMC	6/25/01	6/25/01
REV	CHANGE	DRAWN BY	DATE	ISSUE DATE
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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES, WITH THE FOLLOWING TOLERANCES:		VAISALA	SCALE: None	DWG. NO. DOC220141

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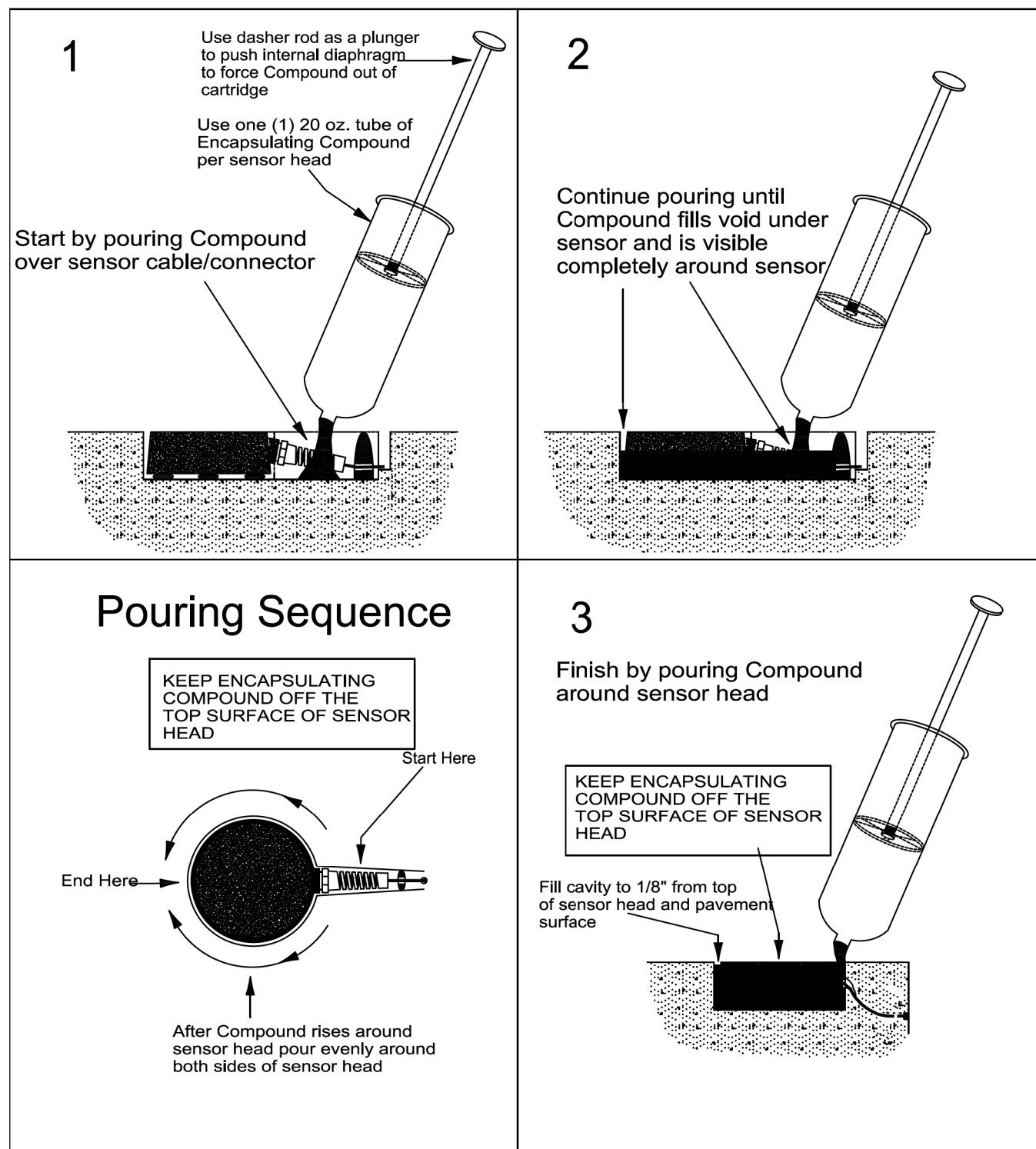
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PVT SENSOR & SUB-SURFACE TEMP
PROBE INSTALLATION MANUAL

SCALE: N/A SHEET 17 OF 20 SHEETS STA. TO STA.

•(18,12-49)RS-3,(12-49,HB-2)BR

F.A.I R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	CLARK	70	61
CONTRACT NO. 94689				
ILLINOIS FED. AID PROJECT				



Note:

Installation of sensor head in roadway is shown. Use same procedure for sensor head installed in bridge deck.

B	Converted Vaisala Format, Removed Active Sensor Pages	TS	11/02/2010	11/02/2010
1	Active Sensor Installation Drawings	JJK	11/01/02	11/11/02
0	Initial Release	DMC	6/25/01	6/25/01
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VAISALA		Pouring Encapsulating Compound		16
				OF 18
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES, WITH THE FOLLOWING TOLERANCES:		SCALE: None	DWG. NO.	DOC220141

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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Default	PLOT DATE = 3/25/2015	CHECKED -	REVISED -
		DATE -	REVISED -

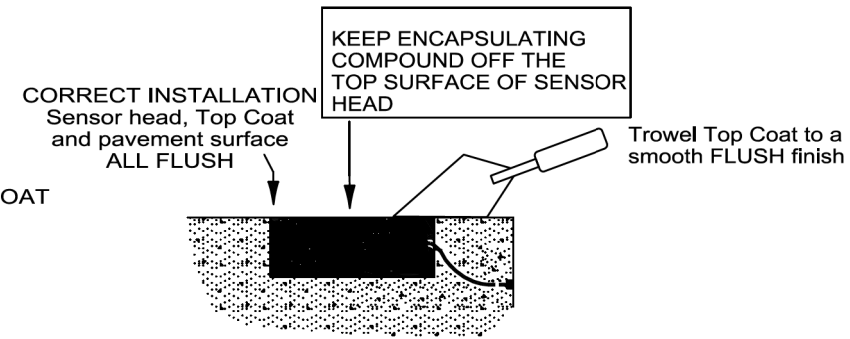
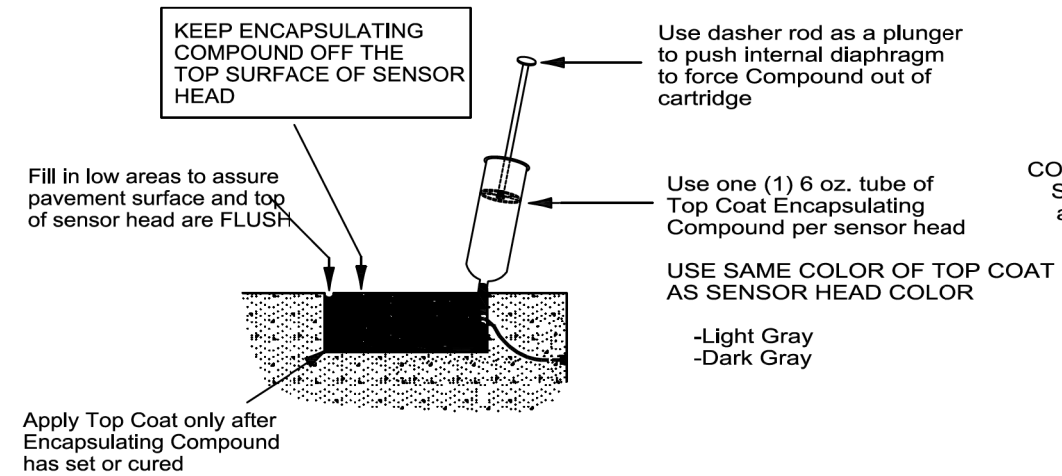
**STATE OF ILLINOIS
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**PVT SENSOR & SUB-SURFACE TEMP
PROBE INSTALLATION MANUAL**

SCALE: N/A SHEET 18 OF 20 SHEETS STA. TO STA.

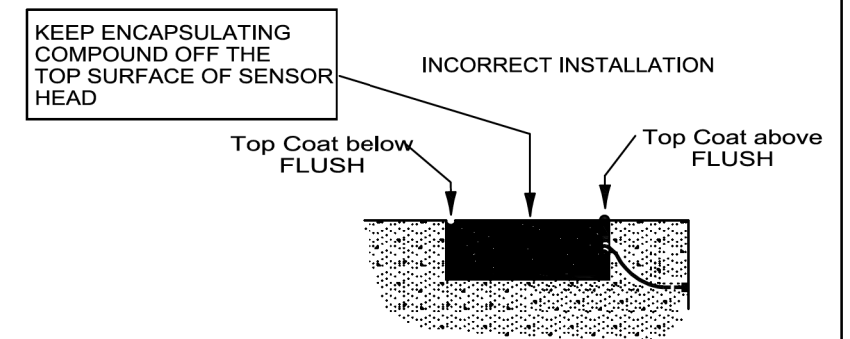
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F.A.I R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	CLARK	70	62
CONTRACT NO. 94689				
ILLINOIS FED. AID PROJECT				



After final troweling, scatter a very light even layer of sand over the sensor head and Top Coat .

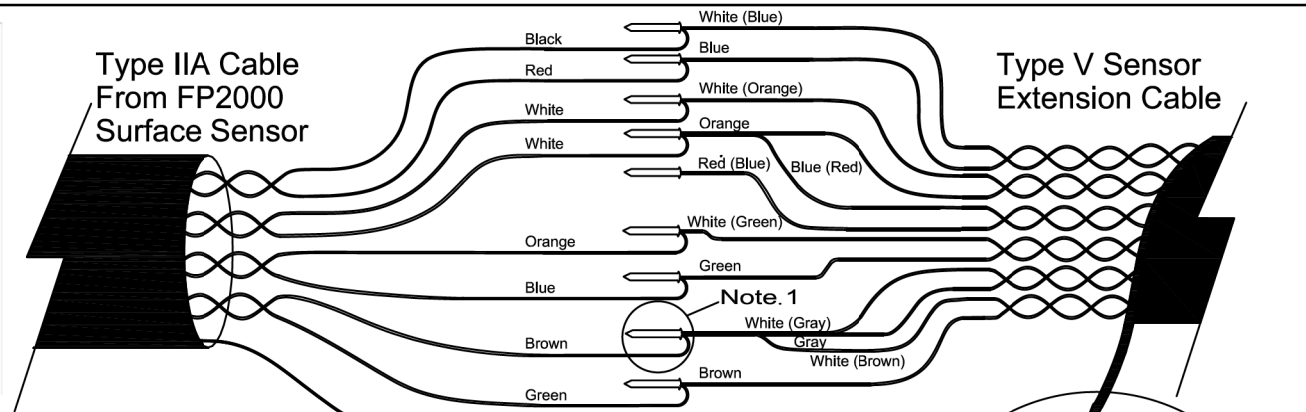
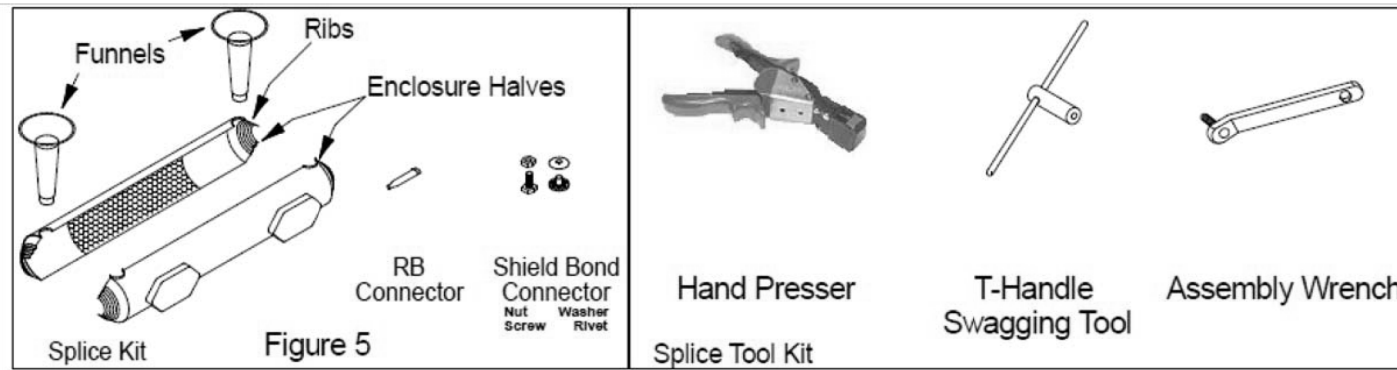
DO NOT ALLOW TRAFFIC ON SENSOR HEAD UNTIL TOP COAT IS FULLY CURED



B	Converted Vaisala Format, Removed Active Sensor Pages	TS	11/02/2010	11/02/2010
1	Active Sensor Installation Drawings	JJK	11/01/02	11/11/02
0	Initial Release	DMC	6/25/01	6/25/01
REV	CHANGE	DRAWN BY	DATE	ISSUE DATE

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	VAISALA	SCALE: None	DWG. NO. DOC220141

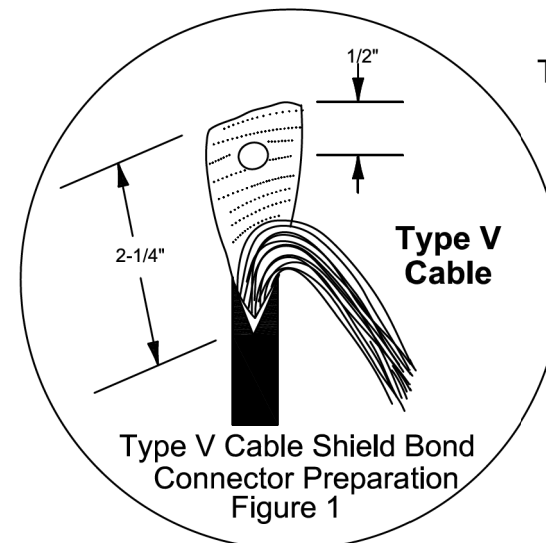


PREPARING TYPE V CABLE FOR SPLICING

1. Leaving 5' to 10' of cable coiled inside the splice can or junction box, cut the excess Type V cable off and discard it.
2. Examine the end of the cable and note the location of the shield overlap. Along this shield overlap, make a 9" lateral (length-wise) cut through the Type V cable outer jacket. Spread the outer jacket and shield apart by pulling out the wire pairs.
3. Remove the core wrap and clean the jelly filling compound from the wires. Re-twist the wire pairs to maintain their pair identification.
4. Cut the 6 wire pairs to a length of 5" from end of lateral cut. **DO NOT CUT DRAIN WIRE (See Figure 4)** Remove 5/8" of the insulation from each conductor, being careful not to nick the solid conductor.

INSTALL SHIELD BOND CONNECTOR

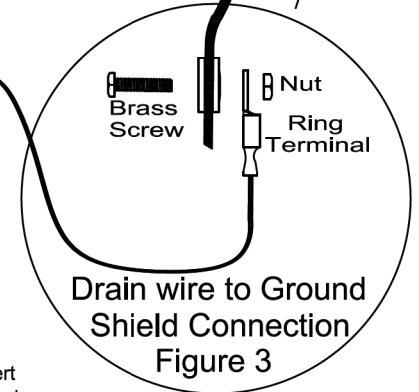
1. Flatten the outer jacket and shield. Cut the flattened part off leaving a tab 2-1/4" from the end of the lateral cut. Punch a 1/4" diameter hole through the jacket and shield. This hole should be 1/2" from the end and centered on the tab. (Figure 1)
2. Insert tubular rivet / serrated washer sleeve through hole on the shield side and position the special domed washer (Figure 2) over the tubular rivet on the jacket side. **The domed washer must be positioned with the concave surface against the cable jacket. Printed surface should be out, away from jacket surface.**
3. Insert threaded portion of assembly wrench through tubular rivet.
4. Thread T-handle swaging tool onto threaded portion of assembly wrench and tighten to finger-tight position.
5. Hold assembly wrench and domed washer firmly in one hand and tighten with T-handle swaging tool until domed washer appears flattened. **After washer becomes flattened, do not overtighten.** Remove assembly tools.



Type V and Type IIA Cable Splicing Diagram Figure 4

Notes

1. Wrap Type IIA stranded wire around one solid Type V wire. Position the remaining two solid wires on each side of the stranded wire and insert into the RB connector. Before crimping with Hand Presser, verify all four wires are fully inserted into the RB Connector.
2. All materials to complete the splicing procedure included in SSI Splice Kit with Tools, P/N 24051016. Tool Kit includes Hand Presser, T-Handle Swagging Tool and Assembly Wrench. (Only one Hand Presser and one T-Handle Swagging Tool is needed to make all splices)

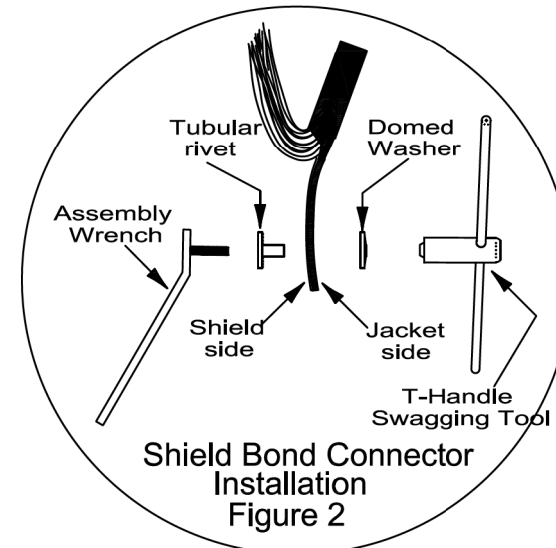


PREPARING TYPE IIA CABLE FOR SPLICING

1. Leaving 5" to 10' of cable coiled inside the splice can or junction box, cut the excess Type IIA cable off and discard it. From this end remove 9" of the Type IIA cable outer jacket and aluminum foil shield, being careful not to cut the individual wires.
2. Remove the mylar wrap and clean the jelly filling compound from the wires. Re-twist the wire pairs to maintain the pair identification.
3. cut all the wire pairs to a length of 5" from the end of the outer jacket.
4. Remove 3/4" of the insulation from each conductor, being careful not to nick the stranded conductors.

SPLICE TYPE V AND TYPE IIA CABLES AS SHOWN IN FIGURE 4 (See Notes for additional instructions)

1. Insert the 10-24 brass machine screw through the Shield Bond Connector eyelet. Position provided ring terminal with drain wire and nut and tighten. (Figure 3)



ENCAPSULATING WIRES USING THE 2 ENCLOSURE HALVES (Figure 5)

1. Trim off the first set of ribs (See Figure 5) only on the Type V entry end of the enclosure halves, thus allowing a large enough hole for Type V cable entry.
2. Center the spliced cables into the 1/2 of the enclosure along the length of the splice area so the diameter of the bundle is as small as possible. Carefully align the tongue and groove on them so as not to pinch any wires. Snap the halves together firmly. Use pliers if necessary.
3. Wrap the enclosure ends tightly with the supplied rubber tape. Be careful not to cover the funnel holes.
4. Place the funnels into the two holes and position the enclosure assembly on a slight incline of about 1.2".
5. Break the seal and thoroughly mix the encapsulating compound. Follow the instructions on the Unipak container guard bag.
6. Cut the corner off one end of the bag and slowly pour the encapsulating compound into the funnel on the high end only. Pour until the compound reaches the tops of the funnels.
7. Leave the poured splice undisturbed to solidify. This should take 1 to 4 hours depending on the temperature.

The following tools are needed to perform a splice but are not supplied by VAISALA:
 Knife
 Scissors
 Rags or paper towels
 1/4" round hole punch
 Wire cutters
 Insulation strippers
 Ruler or tape measure
 Small adjustable wrench

B	Converted Vaisala Format, Removed Active Sensor Pages	TS	11/02/2010	11/02/2010
1	Active Sensor Installation Drawings	JJK	11/01/02	11/11/02
0	Initial Release	DMC	6/25/01	6/25/01
REV	CHANGE	DRAWN BY	DATE	ISSUE DATE
REVISIONS				
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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES, WITH THE FOLLOWING TOLERANCES:		SCALE: None	DWG. NO. DOC220141	

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/25/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

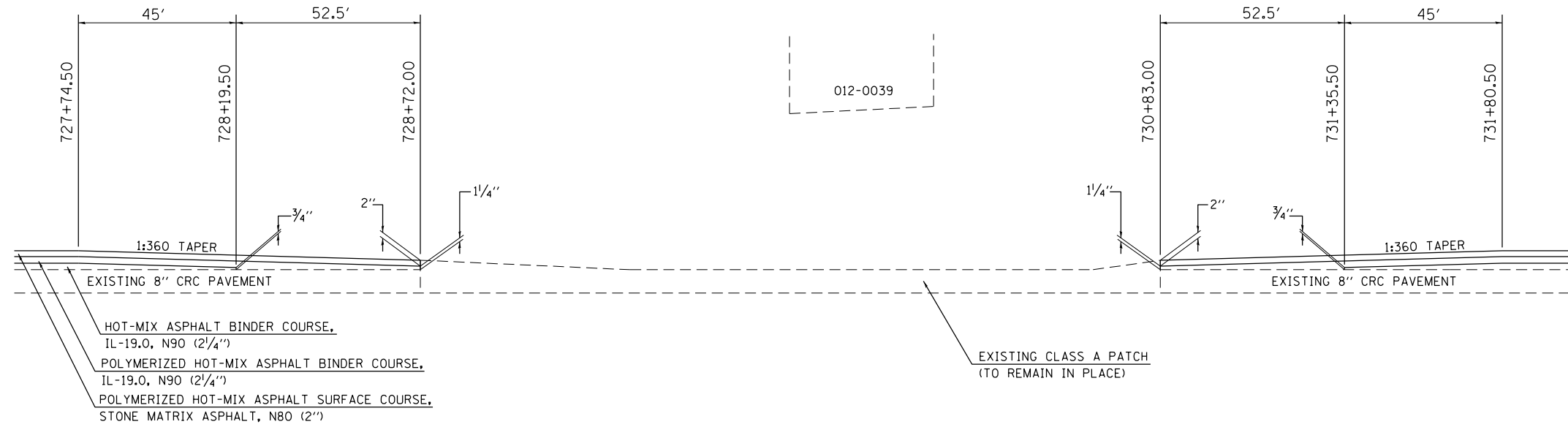
PVT SENSOR & SUB-SURFACE TEMP
PROBE INSTALLATION MANUAL

SCALE: N/A SHEET 20 OF 20 SHEETS STA. TO STA.

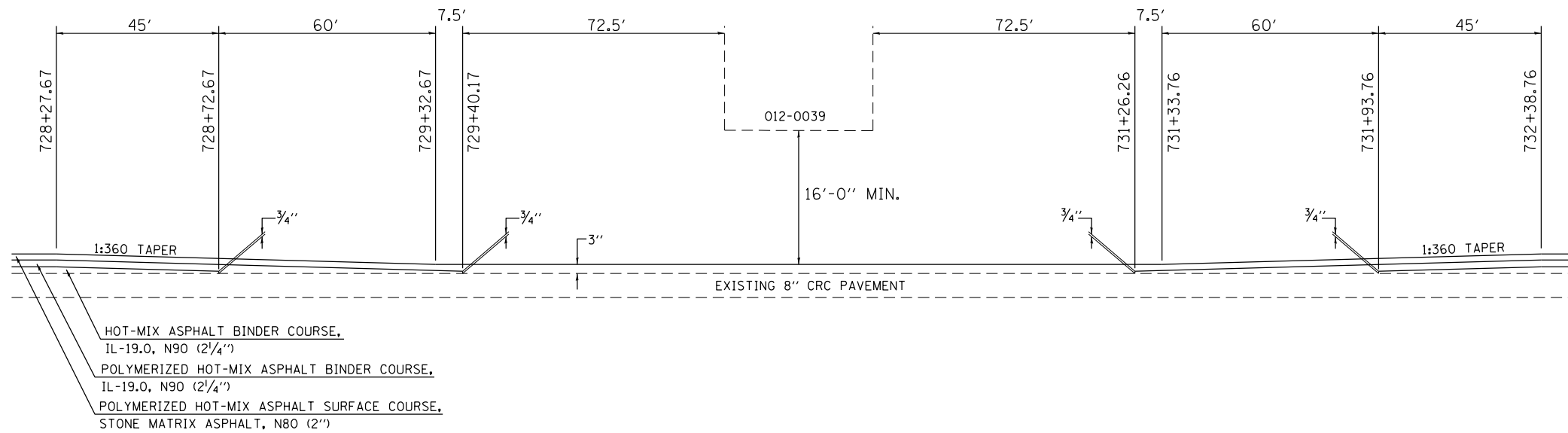
F.A.I R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	.	CLARK	70	64
CONTRACT NO. 94689				
ILLINOIS FED. AID PROJECT				

•(18,12-49)RS-3,(12-49,HB-2)BR

EB PAVING TRANSITION
SN 012-0039



WB PAVING TRANSITION
SN 012-0039



•(18,12-49)RS-3,(12-49,HB-2)BR

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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Default	PLOT DATE = 3/25/2015	DATE -	REVISED -

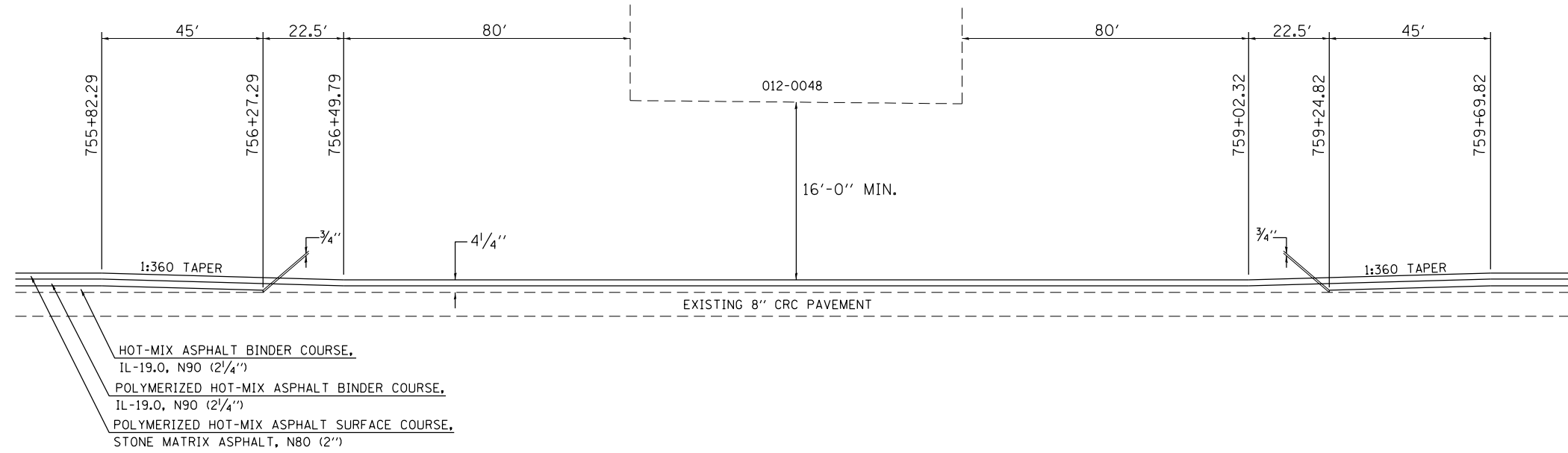
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVING TRANSITION DETAILS
S.N. 012-0039

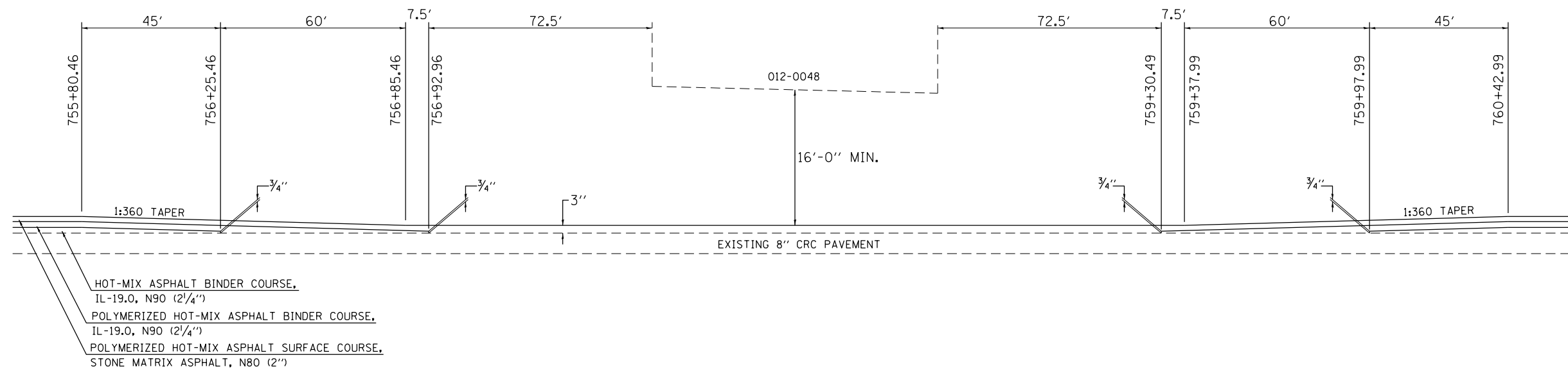
SCALE: NA SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	CLARK	70	65
			CONTRACT NO. 74689	
ILLINOIS FED. AID PROJECT				

EB PAVING TRANSITION
SN 012-0048



WB PAVING TRANSITION
SN 012-0048



•(18.12-49)RS-3,(12-49,HB-2)BR

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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Default	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/25/2015	DATE -	REVISED -

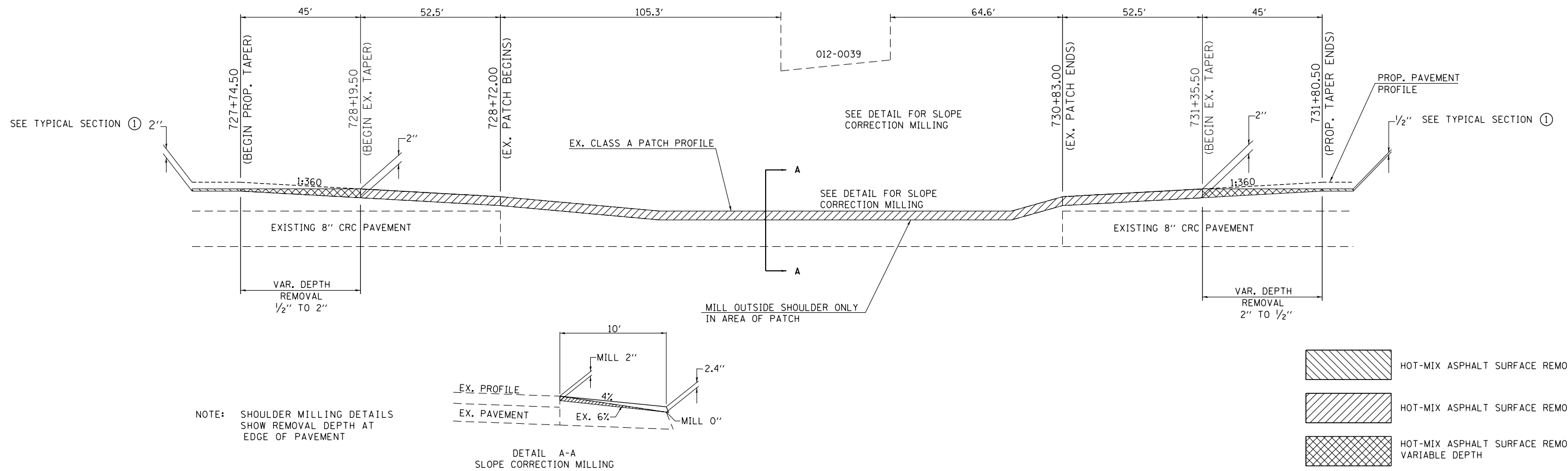
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVING TRANSITION DETAILS
S.N. 012-0048

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

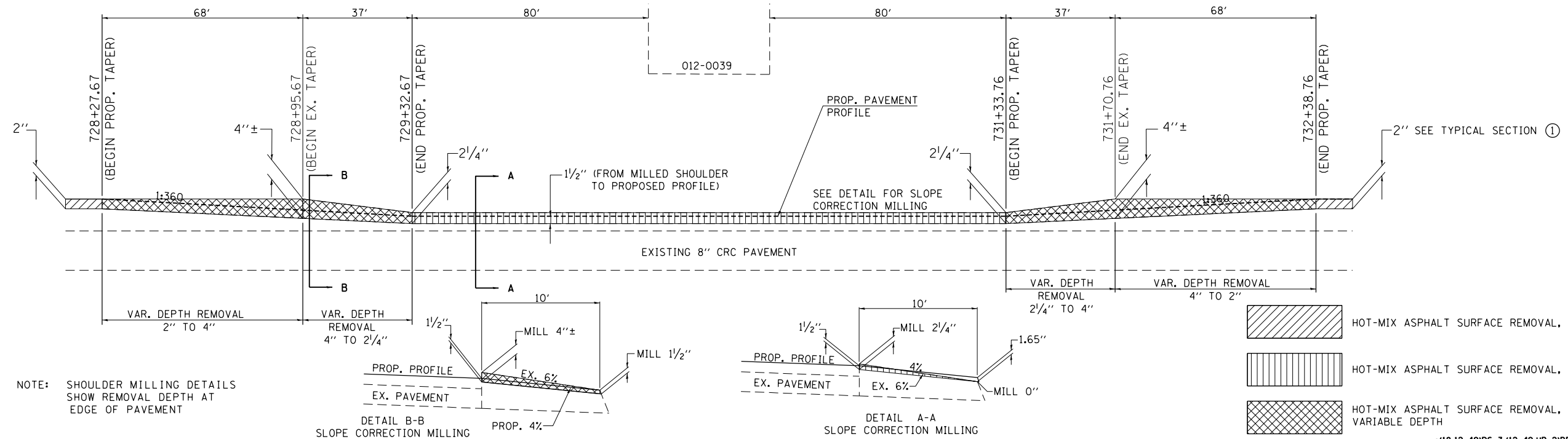
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	CLARK	70	66
			CONTRACT NO. 74689	
ILLINOIS FED. AID PROJECT				

EB SHOULDER MILLING DETAIL
SN 012-0039



NOTE: SHOULDER MILLING DETAILS SHOW REMOVAL DEPTH AT EDGE OF PAVEMENT

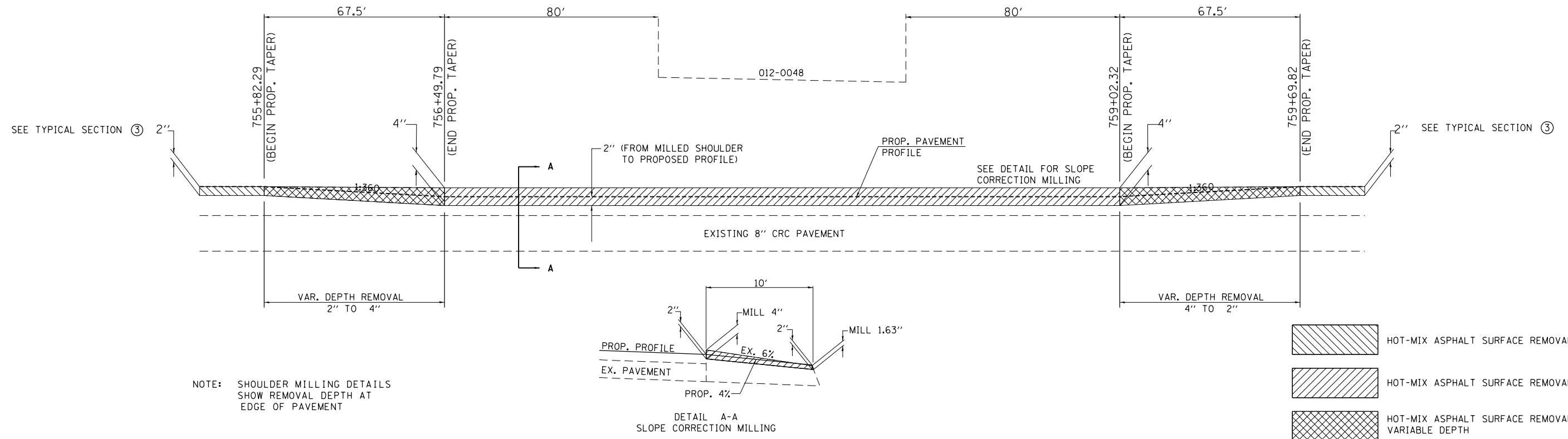
WB SHOULDER MILLING DETAIL
SN 012-0039



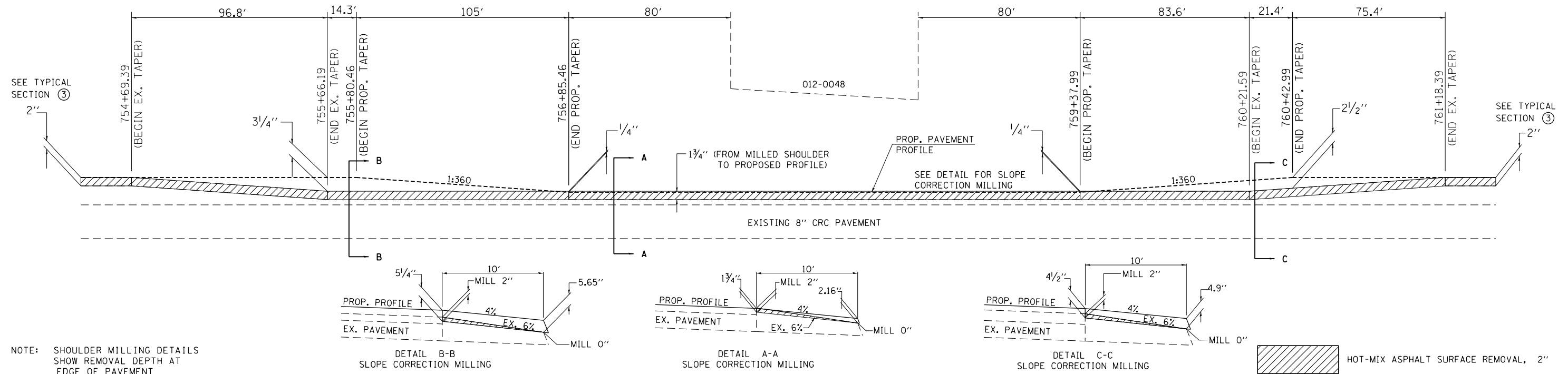
NOTE: SHOULDER MILLING DETAILS SHOW REMOVAL DEPTH AT EDGE OF PAVEMENT

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHOULDER MILLING DETAILS S.N. 012-0039			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 7\Projects\74689\Drawings\CAD\Drawings\0774689-sht-details.dwg		CHECKED -	REVISED -		70	.	CLARK	70	67			
Default	PLOT SCALE = 200.0000' / in.	DATE -	REVISED -		CONTRACT NO. 74689			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 3/25/2015				SCALE: NA	SHEET 1	OF 2 SHEETS	STA.	TO STA.			

EB SHOULDER MILLING DETAIL
SN 012-0048



WB SHOULDER MILLING DETAIL
SN 012-0048



FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -
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Default	PLOT DATE = 3/25/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

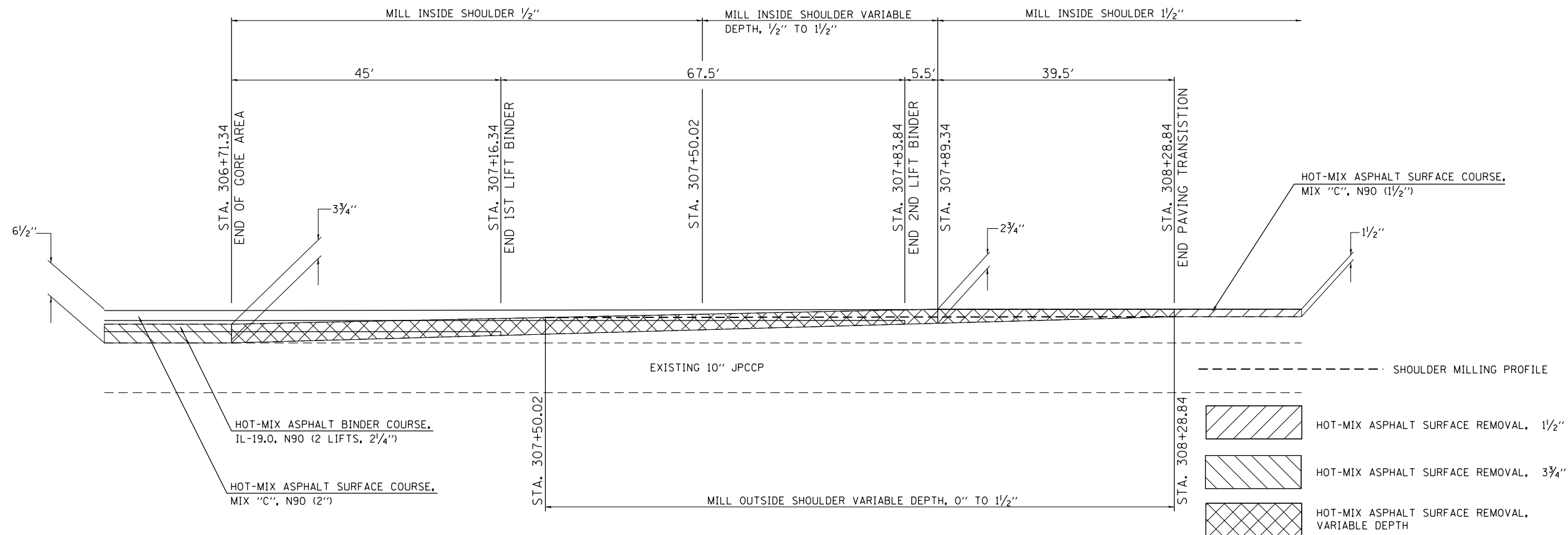
SHOULDER MILLING DETAILS
S.N. 012-0048

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

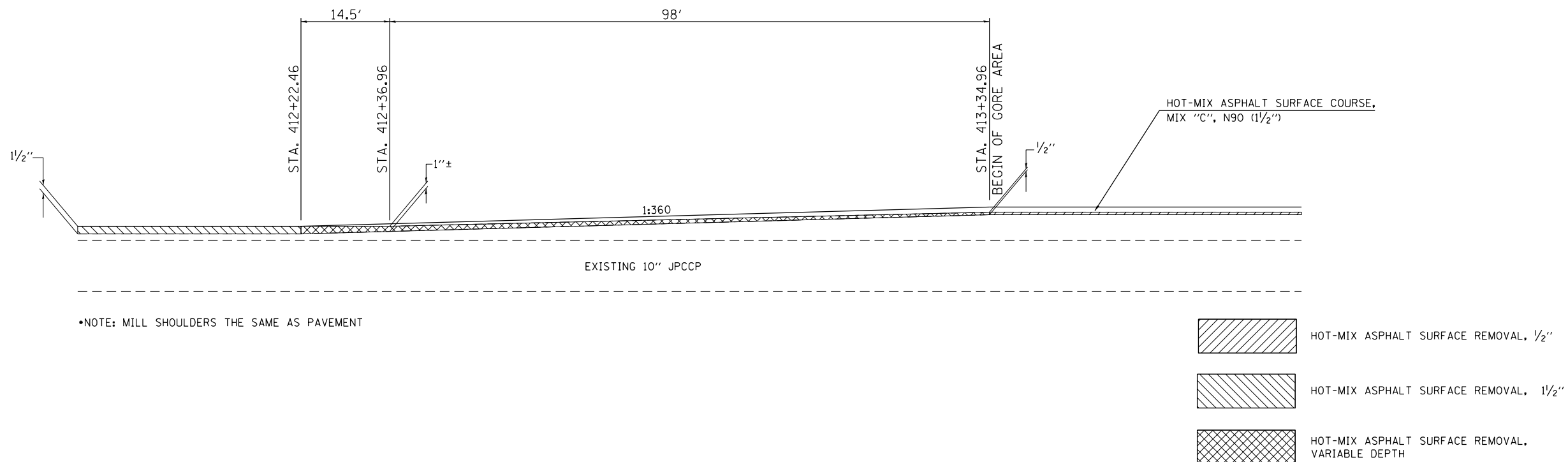
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	.	CLARK	70	68
CONTRACT NO. 74689				
ILLINOIS FED. AID PROJECT				

•(18,12-49)RS-3,(12-49,HB-2)BR

RAMP C MILLING & PAVING DETAIL



RAMP D MILLING & PAVING DETAIL



•NOTE: MILL SHOULDERS THE SAME AS PAVEMENT

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Default	PLOT DATE = 3/25/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

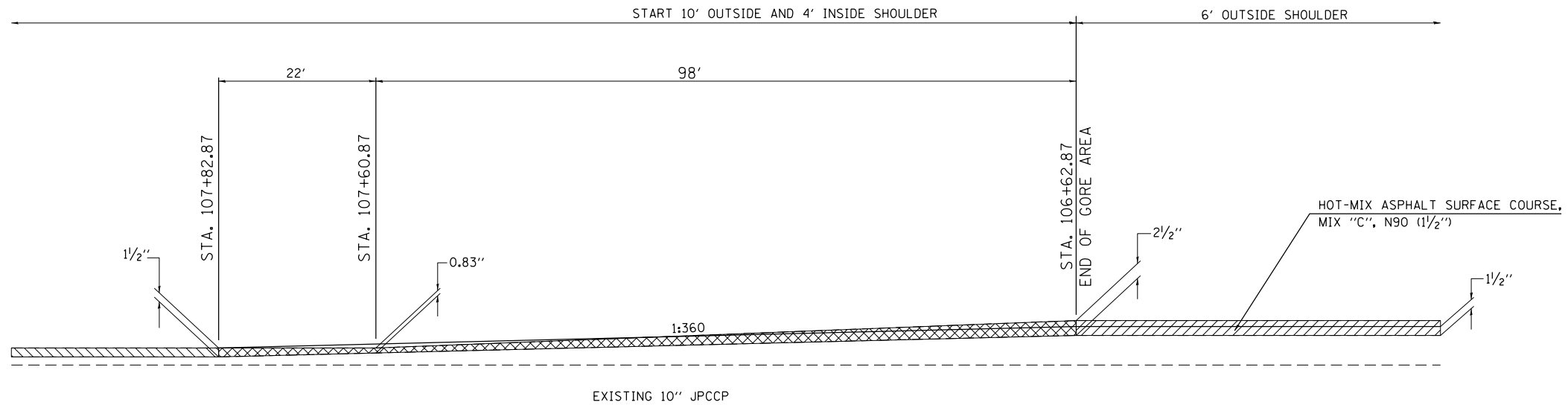
MILLING & PAVING DETAILS
RAMPS C AND D

SCALE: NA SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	CLARK	70	69
CONTRACT NO. 74689				
ILLINOIS FED. AID PROJECT				

•(18,12-49)RS-3,(12-49,HB-2)BR

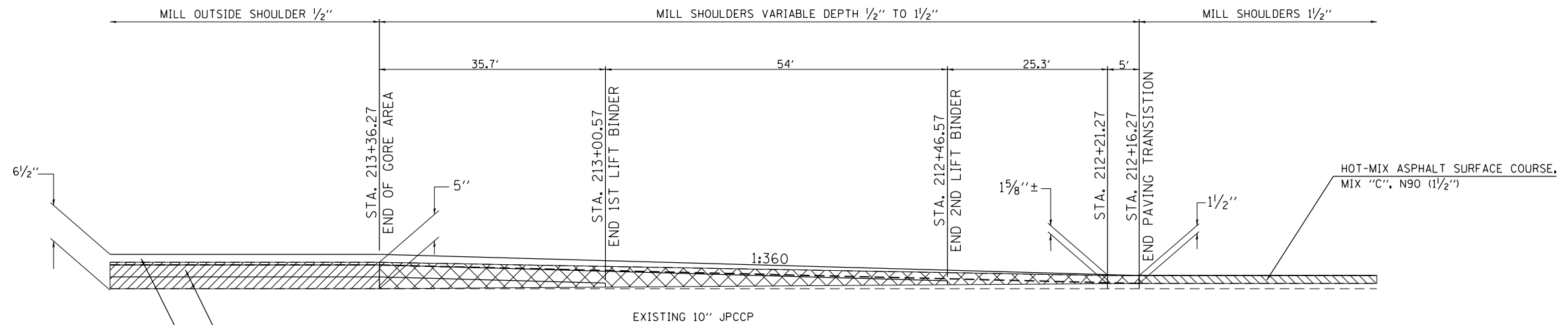
RAMP A MILLING & PAVING DETAIL



•NOTE: MILL SHOULDERS THE SAME AS PAVEMENT

- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

RAMP B MILLING & PAVING DETAIL



HOT-MIX ASPHALT BINDER COURSE,
IL-19.0, N90 (2 LIFTS, 2 1/4")

HOT-MIX ASPHALT SURFACE COURSE,
MIX "C", N90 (2")

----- SHOULDER MILLING PROFILE

- HOT-MIX ASPHALT SURFACE REMOVAL, 5"
- HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

•(18,12-49)RS-3,(12-49,HB-2)BR

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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Default	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/25/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MILLING & PAVING DETAILS
RAMPS A AND B**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	CLARK	70	70
CONTRACT NO. 74689				
ILLINOIS FED. AID PROJECT				