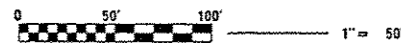


INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3-6 SUMMARY OF QUANTITIES
- 7 TYPICAL SECTION
- 8-11 SCHEDULE OF QUANTITIES
- 12 PLAN VIEW
- 13-18 EXISTING DETECTOR LOOPS (FOR INFORMATION ONLY)
- 19-21 DETAILS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 420701-03 PAVEMENT WELDED WIRE REINFORCEMENT
- 442101-07 CLASS B PATCHES
- 608001-06 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 606301-04 PC CONCRETE ISLANDS AND MEDIANS
- 667101-02 PERMANENT SURVEY MARKERS
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
- 701426-09 LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
- 701456-04 PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
- 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701901-06 TRAFFIC CONTROL DEVICES
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 782001-01 CURB REFLECTORS
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS



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

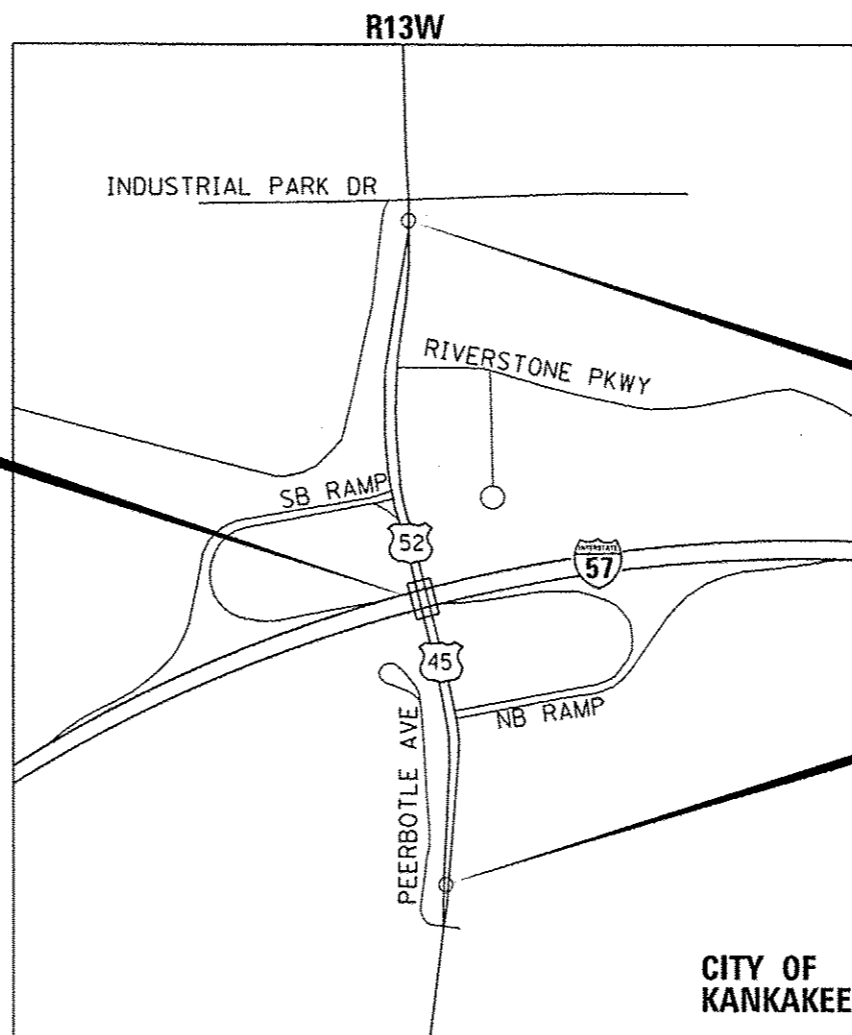
PROJECT ENGINEER: DAVE ALEXANDER, P.E.
UNIT CHIEF: BRAD DUNCAN, P.E.
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66H24

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

FAP ROUTE 840 (US 45/52)
SECTION 139RS-7
PROJECT NHPP-0840(072)
3P MILLING & RESURFACING
KANKAKEE COUNTY

C-93-060-17



SN 046-0052
OMISSION
STA. 130 + 50 TO
STA. 132 + 75

BEGIN IMPROVEMENT
STA. 116 + 88

END IMPROVEMENT
STA. 141 + 03

GROSS LENGTH = 2415 FT. = 0.46 MILE
NET LENGTH = 2190 FT. = 0.41 MILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	139RS-7	KANKAKEE	21	1
		ILLINOIS	CONTRACT NO. 66H24	

D-93-043-17



LOCATION OF SECTION INDICATED THIS: - [shaded rectangle] -

URBAN
OTHER PRINCIPLE ARTERIAL
F. A. P. 840 (US 45/52)
2015

NORTH	SOUTH
ADT = 11800	ADT = 8950
P. V. = 90.26%	P. V. = 85.34%
S. U. = 5.93%	S. U. = 7.52%
M. U. = 3.81%	M. U. = 7.14%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 3-24 20 17
Kevin Marchek P.E.
REGIONAL ENGINEER

May 12 20 17
Maureen M. Addis P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

May 12 20 17
Amel Al...
DIRECTOR OF PROGRAM DEVELOPMENT 2

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK WILL BE INCLUDED IN THE COST OF THE HMA SURFACE.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

SHORT TERM PAVEMENT MARKING SHALL BE USED TO OUTLINE EXIT AND ENTRANCE RAMP FOR THE PRIME COAT APPLICATION AND EACH RESURFACING LIFT.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

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

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: *Tom Benil*
DISTRICT STUDIES & PLANS ENGINEER

DATE: 3-24-17

EXAMINED BY: *Tom Benil*
DISTRICT CONSTRUCTION ENGINEER

Michael A. Short
DISTRICT MATERIALS ENGINEER

Tom Benil
DISTRICT OPERATIONS ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

FILE NAME: p:\11084EBID\INTEG.illinois.gov\PIW\DOT\Documents\DOT Offices\District 3\Projects\0366\DRAWN\Data\0366H24-shr-cover.dgn	USER NAME: duncanbd	DESIGNED: -	REVISED: -	SCALE: NTS	SHEET	OF	SHEETS	STA.	TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE: 100.0000' / 1" CHECKED: -	REVISED: -	840							139RS-T	KANKAKEE	21	2	
	PLOT DATE: 3/20/2017	DATE: -	REVISED: -							ILLINOIS FED. AID PROJECT				
Default										CONTRACT NO. 66H24				

CONSTR. CODE

80% FEDERAL
20% STATE

ROADWAY
0005
URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	12903	12903
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	5	5
40600537	LEVELING BINDER (HAND METHOD), IL-9.5FG, N70	TON	8	8
40600637	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N70	TON	1272	1272
40600990	TEMPORARY RAMP	SO YD	332	332
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	1388	1388
42000060	WELDED WIRE REINFORCEMENT	SO YD	166	166
44000100	PAVEMENT REMOVAL	SO YD	14	14
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	3893	3893
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	42	42
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SO YD	1453	1453
44200974	CLASS B PATCHES, TYPE III, 10 INCH	SO YD	66	66
44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SO YD	100	100
44201299	DOWEL BARS 1 1/2"	EACH	3608	3608

14

FILE NAME :	USER NAME : duncanbd	DESIGNED -	REVISED -
p:\VIL\094EBI\INTEG\Illinois.gov\PWIDOT\Documents\IGOT Offices\District 3\Projects\0364\ORX\090Data\0366H24.sht-500.dgn		CHECKED -	REVISED -
	PLOT SCALE = 100.0000' / 1"	DATE -	REVISED -
Default	PLOT DATE = 3/28/2017		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	139R5-7	KANKAKEE	21	3
			CONTRACT NO. 66H24	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FEDERAL ROADWAY	20% STATE
				0005	URBAN
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	9102		9102
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1100		1100
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	1650		1650
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	541		541
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	315		315
△	78000100 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	387.3		387.3
△	78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	9102		9102
△	78000500 THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1650		1650
△	78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	541		541
△	78000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	315		315
△	78003130 PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 6"	FOOT	1100		1100
△	78100100 RAISED REFLECTIVE PAVEMENT MARKER	EACH	146		146
△	78200020 CURB REFLECTORS	EACH	165		165
	78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	179		179

14

△ SPECIALTY ITEMS

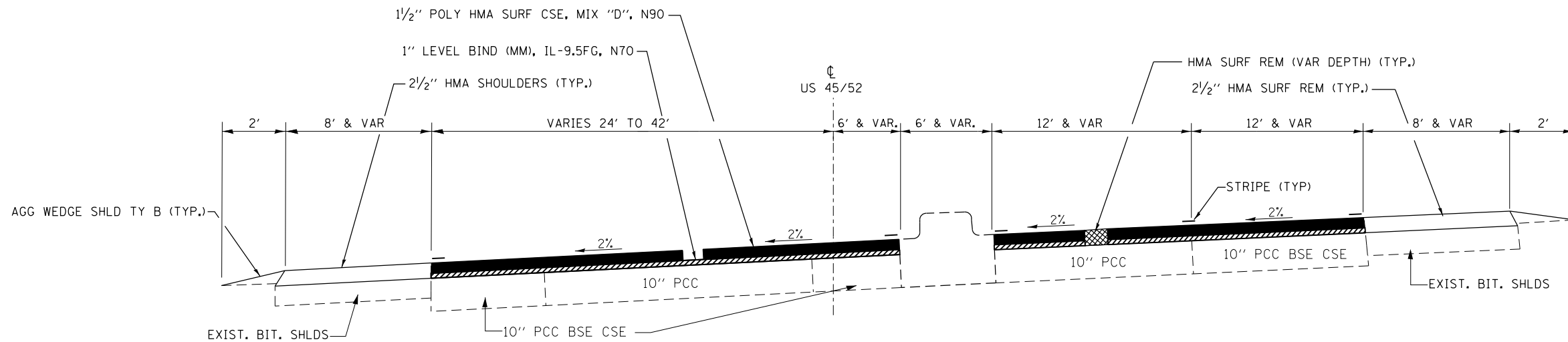
FILE NAME :		USER NAME : duncanbd		DESIGNED -		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				SCALE:		SHEET 3 OF SHEETS		STA. TO STA.		ILLINOIS FED. AID PROJECT	
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PLOT SCALE = 100.0000 / in.		CHECKED -		DATE -		REVISED -			139RS-7		KANKAKEE		21		5		KANKAKEE		CONTRACT NO. 66H24	
PLOT DATE = 3/20/2017		DATE -		REVISED -		REVISED -			840		139RS-7		KANKAKEE		21		5		KANKAKEE	

10:08 AM

CONSTR. CODE
80% FEDERAL
20% STATE
ROADWAY
0005
URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FEDERAL	20% STATE
△ 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	600	600	
△ 88500100	INDUCTIVE LOOP DETECTOR	EACH	3	3	
△ 88600100	DETECTOR LOOP, TYPE I	FOOT	2965	2965	
△ 89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	3	3	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	16520	16520	
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	90	90	
△ X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	1100	1100	
△ X7830076	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	1650	1650	
△ X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	315	315	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42	

△ SPECIALTY ITEMS



TYPICAL SECTION

STA. 116+88 TO STA. 130+50

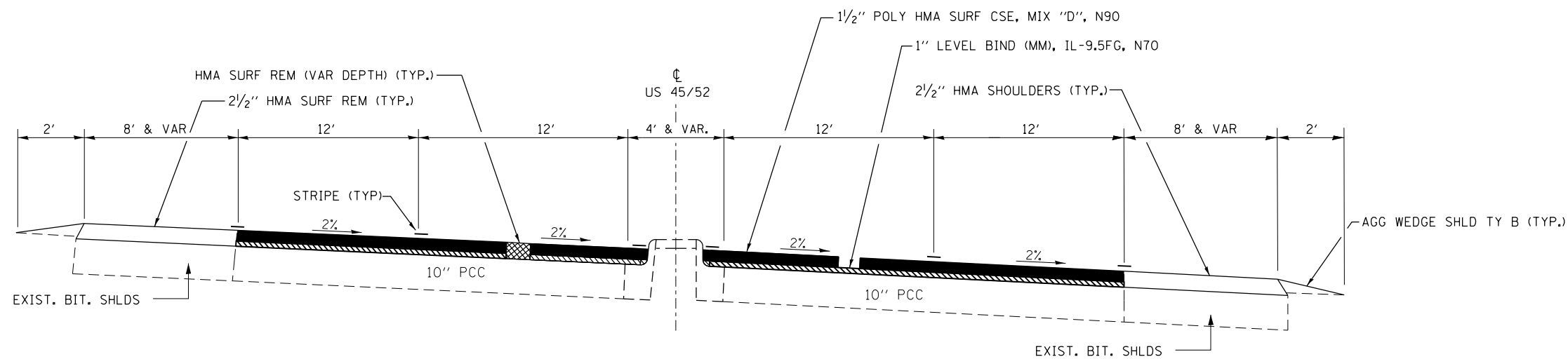
NORMAL CROWN @ 2% - STA. 119±35 TO STA. 120±35

NORMAL CROWN @ 2% - STA. 129±12 TO STA. 130+50

NO EXISTING MEDIAN - STA. 116+88 TO STA. 119±70

HMA MIXTURE REQUIREMENT TABLE			
LOCATION(S):	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA SURFACE	LEVELING BINDER (MM)	HMA SHOULDERS
BINDER GRADE (PG):	SBS PG70-28	PG64-22	PG64-22
DESIGN AIR VOIDS:	4% @ N90	4% @ N70	4% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 9.5 FG	IL 9.5
FRICTION AGGREGATE:	MIXTURE D		
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/OA	QC/OA	QC/OA
SUBLOT SIZE:	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES	GROWTH CURVE	CORES

- NOTES: 1. HMA TO BE REMOVED TO BARE CONCRETE (INCLUDING RIVERSTONE PARKWAY & I-57 RAMPS)
 2. EXISTING HMA VARIES 1 1/2" TO 3 1/2"
 3. ADDITIONAL LEVELING BINDER INCLUDED IN THE PLANS TO CORRECT CROSS SLOPE



TYPICAL SECTION

STA. 132+75 TO STA. 141+03

NORMAL CROWN @ 2% - STA. 132+75 TO STA. 134±12

MAINLINE PAVING SCHEDULE										
STA. TO STA.		LENGTH	WIDTH	*HMA SURF REMOVAL VAR DEPTH	MIX FOR CRKS, JTS FLANGE	BIT MAT TACK CT	LEV BIND (MM) IL 9.5FG N70	LEV BIND (HM) IL 9.5FG N70	POLY HMA SURF CSE MIX D N90	TEMP RAMP
		FT	FT	SQ YD	TON	POUND	TON	TON	TON	SQ YD
URBAN										
116+88	117+04	16.0	VARIES	117.3	0.0	79.2	8.2	0.1	9.9	91.7
117+04	119+74	270.0	66.0	1980.0	0.6	1336.5	138.6	1.0	166.3	
119+74	121+65	191.0	60.0	1273.3	0.4	859.5	89.1	0.6	107.0	
121+65	122+70	105.0	66.0	2296.0	0.7	1549.8	160.7	1.1	192.9	40.0
122+70	130+50	780.0	48.0	5453.2	1.6	3680.9	381.7	2.7	458.1	66.7
130+50	132+75	SN 046-0052 BRIDGE OMISSION								
132+75	141+03	828.0	48.0	5399.8	1.6	3644.9	378.0	2.7	453.6	133.3
ADDITIONAL LEVEL BINDER TO CORRECT CROSS SLOPE							116.0			
TOTAL				16520	5	11151	1272	8	1388	332

▪ EXISTING HMA ON THE PROJECT (INCLUDING THE NB AND SB I-57 RAMPS & RIVERSTONE PARKWAY) VARIES IN THICKNESS OVER THE EXISTING CONCRETE. CONTRACTOR TO REMOVE ALL HMA AND SCARIFY CONCRETE. WORK TO BE PAID FOR AS HMA SURFACE REMOVAL VARIABLE DEPTH.

NOTE : QUANTITIES SHOWN IN SCHEDULE INCLUDE PAVING WORK REQUIRED AT RIVERSTONE PARKWAY & I-57 RAMPS

HMA SHOULDER SCHEDULE							
STATION	SIDE	WIDTH	LENGTH	AREA	HMA SURF REMOVAL 2 1/2"	BIT MATL TACK CT	HMA SHOULDERS
		FT	FT	SQ YD	SQ YD	POUND	TON
116+88 - 130+50	RT	8	1362	1211	1211	545	169
116+88 - 130+50	LT	8	1362	1211	1211	545	169
132+75 - 141+03	RT	8	828	736	736	331	103
132+75 - 141+03	LT	8	828	736	736	331	103
TOTAL					3893	1752	545

PATCHING SCHEDULE - I-57 RAMPS						
LOCATION BY STATION	LENGTH (FT)	WIDTH (FT)	RAMPS			
			CLASS B PATCHING		DOWEL BARS EACH	SAW CUTS FOOT
			TYPE II SQ YD	TYPE IV SQ YD		
RAMP	6	12	8	0	20	54
RAMP	6	12	8	0	20	54
RAMP	6	12	8	0	20	54
RAMP	21	12	0	28	20	99
RAMP	21	12	0	28	20	99
RAMP TOTALS			24	56	100	360

PATCHING SCHEDULE - US 45/52 SOUTHBOUND LANES																			
LOCATION BY STATION	LENGTH			WIDTH			TURN LANE			DRIVING LANE				PASSING LANE					
	TURN LANE	DRIVE LANE	PASS LANE	TURN LANE	DRIVE LANE	PASS LANE	CLASS B PATCHING		DOWEL BARS	SAW CUTS	CLASS B PATCHING		DOWEL BARS	SAW CUTS	CLASS B PATCHING			DOWEL BARS	SAW CUTS
							TYPE II				TYPE II	TYPE III			TYPE II	TYPE III	TYPE IV		
							(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	SQ YD	EACH	FOOT	SQ YD	SQ YD	EACH	FOOT
117+15		6	6		12	12					8		20	54	8			20	54
117+65		6	6		12	12					8		20	54	8			20	54
117+80		6	6		12	12					8		20	54	8			20	54
118+50		6	6		12	12					8		20	54	8			20	54
119+10		6	6		12	12					8		20	54	8			20	54
119+40		6	6		12	12					8		20	54	8			20	54
119+70		6	6		12	12					8		20	54	8			20	54
120+25	6	6	6	12	12	12	8	20	54	8		20	54	8			20	54	
120+50	6	6	6	12	12	12	8	20	54	8		20	54	8			20	54	
120+85	6	6	6	12	12	12	8	20	54	8		20	54	8			20	54	
121+80		6	6		12	12					8		20	54	8			20	54
122+80		6	6		12	12					8		20	54	8			20	54
123+30		6	6		12	12					8		20	54	8			20	54
123+80		6	6		12	12					8		20	54	8			20	54
124+55	6	6	6	12	12	12	8	20	54	8		20	54	8			20	54	
124+75		6	6		12	12					8		20	54	8			20	54
125+00		6	6		12	12					8		20	54	8			20	54
125+55	6	6	6	12	12	12	8	20	54	8		20	54	8			20	54	
125+75		6	6		12	12					8		20	54	8			20	54
126+30	6	6	6	12	12	12	8	20	54	8		20	54	8			20	54	
127+10		15			12							20	81						
127+25			20			20										44		36	120
127+80		8	8		12	12				11		20	60	11			20	60	
128+15	8	8	8	12	12	12	11	20	60	11		20	60	11			20	60	
128+50		6	6		12	12				8		20	54	8			20	54	
128+75		6	6		12	12				8		20	54	8			20	54	
129+20		6	6		12	12				8		20	54	8			20	54	
129+45		8	8		12	12				11		20	60	11			20	60	
129+85		6	6		12	12				8		20	54	8			20	54	
133+35		10	10		12	12				13		20	66	13			20	66	
133+50		8	8		12	12				11		20	60	11			20	60	
134+25		6	6		12	12				8		20	54	8			20	54	
134+70		6	6		12	12				8		20	54	8			20	54	
135+75		6	6		12	12				8		20	54	8			20	54	
136+20		14	14		15	15					23	26	87		23		26	87	
136+50		6	6		12	12				8		20	54	8			20	54	
137+25		8	8		12	12				11		20	60	11			20	60	
137+60		8	8		12	12				11		20	60	11			20	60	
138+50		6	6		12	12				8		20	54	8			20	54	
138+65		6	6		12	12				8		20	54	8			20	54	
138+95		6	6		12	12				8		20	54	8			20	54	
140+20		6	6		12	12				8		20	54	8			20	54	
140+55		6	6		12	12				8		20	54	8			20	54	
SOUTHBOUND TOTALS							59	140	384	342	43	846	2376	342	23	44	862	2415	

PATCHING SCHEDULE - US 45/52 NORTHBOUND LANES															
LOCATION BY STATION	LENGTH			WIDTH			TURN LANE			DRIVING LANE			PASSING LANE		
	TURN LANE	DRIVE LANE	PASS LANE	TURN LANE	DRIVE LANE	PASS LANE	CLASS B PATCHING TYPE II	DOWEL BARS	SAW CUTS	CLASS B PATCHING TYPE II	DOWEL BARS	SAW CUTS	CLASS B PATCHING TYPE II	DOWEL BARS	SAW CUTS
	(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	SQ YD	EACH	FOOT	SQ YD	EACH	FOOT	SQ YD	EACH	FOOT
117+15		6	6		12	12				8	20	54	8	20	54
117+45		6	6		12	12				8	20	54	8	20	54
117+65		6	6		12	12				8	20	54	8	20	54
118+10		6	6		12	12				8	20	54	8	20	54
118+65		6	6		12	12				8	20	54	8	20	54
118+85		6	6		12	12				8	20	54	8	20	54
119+35		8	8		12	12				11	20	60	11	20	60
120+05		6	6		12	12				8	20	54	8	20	54
120+25		6	6		12	12				8	20	54	8	20	54
120+80			6			12							8	20	54
121+05	6	6	6	12	12	12	8	20	54	8	20	54	8	20	54
121+65			6			12							8	20	54
122+20	6	6	6	12	12	12	8	20	54	8	20	54	8	20	54
123+15	6	6		12	12		8	20	54	8	20	54			
123+50	6	6		12	12		8	20	54	8	20	54			
124+20	6	6	6	12	12	12	8	20	54	8	20	54	8	20	54
124+80	6	6	6	12	12	12	8	20	54	8	20	54	8	20	54
125+30		6	6		12	12				8	20	54	8	20	54
125+70	6	6	6	12	12	12	8	20	54	8	20	54	8	20	54
126+45		6	6		12	12				8	20	54	8	20	54
126+80		6	6		12	12				8	20	54	8	20	54
127+30		6	6		12	12				8	20	54	8	20	54
127+55		6	6		12	12				8	20	54	8	20	54
128+60		6	6		12	12				8	20	54	8	20	54
129+25		6	6		12	12				8	20	54	8	20	54
129+45		8	8		12	12				11	20	60	11	20	60
133+45		6	6		12	12				8	20	54	8	20	54
133+85		6	6		12	12				8	20	54	8	20	54
134+60		6	6		12	12				8	20	54	8	20	54
135+20		6	6		12	12				8	20	54	8	20	54
137+25		6	6		12	12				8	20	54	8	20	54
137+50		6	6		12	12				8	20	54	8	20	54
137+95		6	6		12	12				8	20	54	8	20	54
138+20		6	6		12	12				8	20	54	8	20	54
138+70		6	6		12	12				8	20	54	8	20	54
139+25		6	6		12	12				8	20	54	8	20	54
139+50		8	8		12	12				11	20	60	11	20	60
139+95		6	6		12	12				8	20	54	8	20	54
140+20		6	6		12	12				8	20	54	8	20	54
140+50		8	8		12	12				11	20	60	11	20	60
NORTHBOUND TOTALS							56	140	378	315	760	2076	315	760	2076

PAVEMENT MARKINGS																									
STA. to STA.	DESCRIPTION	THERMOPLASTIC						PREFORMED PLASTIC TYPE B FOOT	RAISED REFLECTIVE PAVEMENT MARKER		CURB REFLECTOR EACH	RAISED REFLECTOR REMOVAL EACH	TEMPORARY PAVEMENT MARKING					SHORT TERM PAVT MARK 3 APPL FOOT							
		4"		8"		12"			LETTERS & SYMBOLS SQ FT	CRYSTAL EACH			AMBER EACH	4"	6"	8"	12"		24"	LETTERS & SYMBOLS SQ FT					
		WHITE FOOT	YELLOW FOOT	WHITE FOOT	WHITE FOOT	YELLOW FOOT	WHITE FOOT																		
116+88 - 130+50	EOP	2724																							
116+88 - 130+50	CENTERLINE							680		66										975					
116+88 - 121+50	MEDIAN		756							14		14		28											
118+65 - 121+55	LEFT TURN LANE	192		47															46.8	765					
119+41 - 122+11	ISLAND/STOP BAR			219	108			36				11		11											
122+60 - 123+25	ISLAND/RIGHT TURN LANE			192	53			48				11		11					23						
122+64 - 127+00	CONCRETE MEDIAN OUTLINE		902											28											
123+25 - 125+90	RIGHT TURN LANE/STOP BAR	303	120	20				48						28					46.8	432					
124+78 - 126+53	RIGHT TURN LANE	175		237															46.8	288					
125+90 - 126+90	RIGHT TURN LANE			40																					
126+53 - 127+03	ISLAND/RIGHT TURN LANE/STOP BAR			323	40			48				11		11											
127+52 - 128+02	ISLAND		150	100	108			21				11		11					31.2						
127+64 - 130+50	CONCRETE MEDIAN OUTLINE		508	236								44		44											
132+75 - 141+03	EOP	1656						24																	
132+75 - 141+03	CENTERLINE							26	112.5	420										660					
132+75 - 136+00	CONCRETE MEDIAN OUTLINE		590																						
135+62 - 136+12	ISLAND		150	236	57			64	42.7			11		11					42.7						
136+64 - 141+03	CONCRETE MEDIAN OUTLINE		876						37.5			24		24											
TOTALS		5050	4052	1650	366	175	315	387.3		1100		132		14		165		179	9102	1100	1650	541	315	387.3	3120

THE FOLLOWING PAVEMENT MARKINGS SHALL BE GROOVED: PREFORMED PLASTIC, TYPE B - 6"
THERMOPLASTIC - 8"
THERMOPLASTIC - 24"

TRAFFIC SIGNAL SCHEDULE			
LOCATION	DETECTOR LOOP TYPE 1	INDUCTIVE LOOP DETECTOR	ELEC CABLE CON, LEAD IN NO. 14, 1PR
	FOOT	EACH	FOOT
RIVERSTONE PARKWAY	1090	1	200
I-57 SB RAMP	1025	1	200
I-57 NB RAMP	850	1	200
TOTAL	2965	3	600

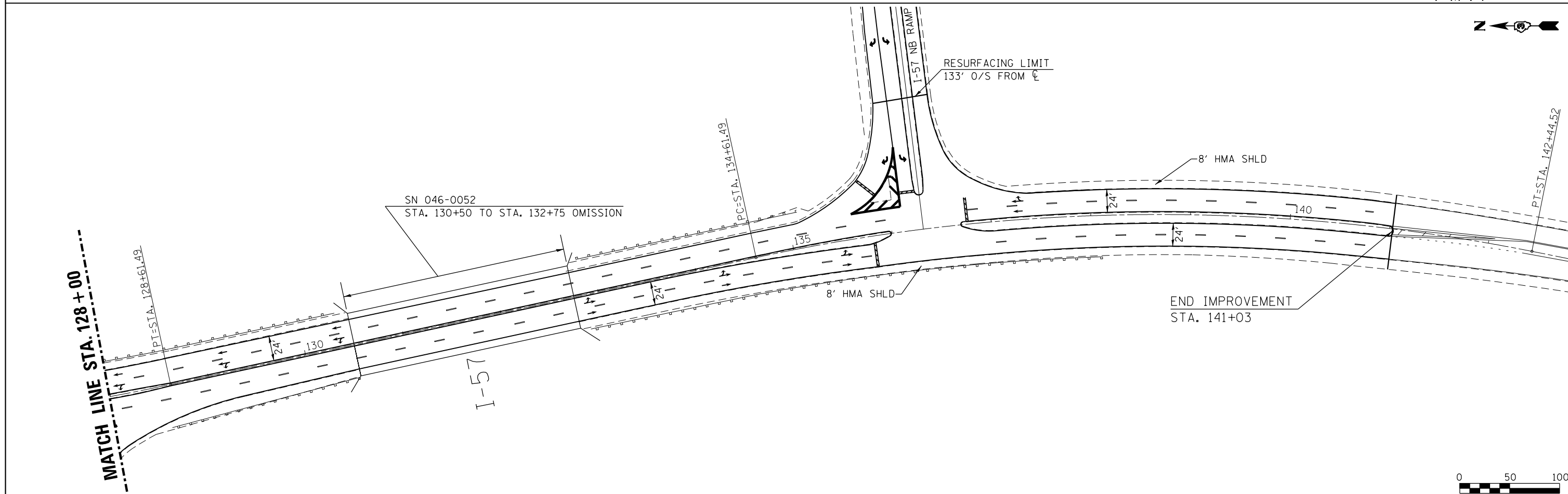
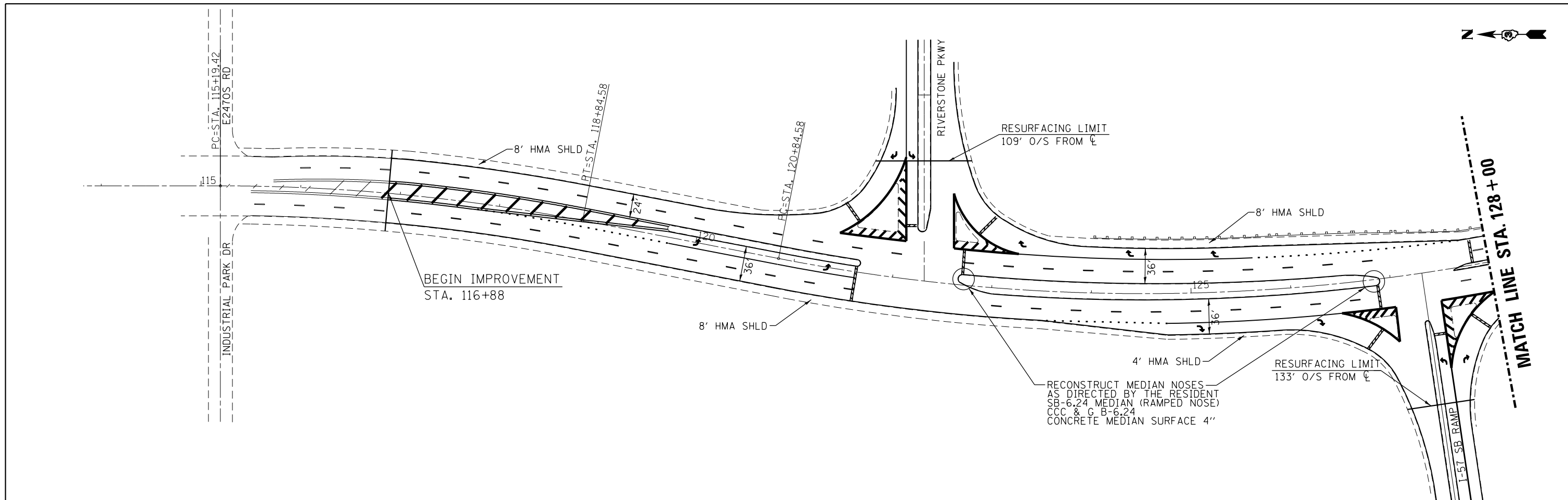
GENERAL NOTES

- 1.) PLACE DETECTOR LOOPS IN LEVELING BINDER
- 2.) DETECTOR LOOPS SHALL HAVE FOUR TURNS. ADVANCED WARNINGS SHALL HAVE SIX TURNS.
- 3.) SAW CUT EXISTING DETECTOR LOOPS TO BE ADANDONED.
- 4.) THE DEPARTMENT OF TRANSPORTATION (815-434-8506) SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE LAYOUT OF THE DETECTOR LOOPS.
- 5.) QUANTITIES OF DETECTOR LOOP, TYPE 1 ARE BASED ON REPLACING ALL THE LOOPS IN THE LEVEL BINDER AT EACH INTERSECTION. "FOR INFORMATION ONLY" PLANS HAVE BEEN INCLUDED TO REPLACE THE LOOPS AT EACH INTERSECTION.
- 6.) QUANTITY FOR INDUCTION LOOP DETECTOR AMPLIFIER IS GIVEN IN THE EVENT AN EXISTING AMPLIFIER IS NOT FUNCTIONING.
- 7.) PER THE CITY OF KANKAKEE QUANTITY FOR DETECTOR LOOPS WERE INCLUDED IN THE EVENT THE FLIR VEHICLE DETECTION DEVICE LOCATED AT THE I-57 NORTHBOUND

PERMANENT SURVEY MARKER					
ROUTE 45/52		LOCATION: W INDUSTRIAL PARK DR TO 0.1 MI N OF PEERBOTLE AVE IN KANKAKEE			KANKAKEE COUNTY
INDEX NUMBER	DESCRIPTION	EXISTING MONUMENT TYPE	PROPOSED MONUMENT TYPE	MONUMENT RECORD TO BE RECORDED	RESPONSIBILITY
045400	NW CORNER SECTION 20, T30N, R13W, 2ND PM	BRASS DISK	BRASS DISK	NO	1
	EXISTING BRASS DISK 4" BELOW SURFACE AS SHOWN ON ATTACHED TIE SHEET				

THE LISTED MONUMENT LOCATION AND EXISTING TIES HAVE BEEN RECORDED BY GPS. PRE CONSTRUCTION TIES BY THE R.E. ARE NOT REQUIRED. THE R.E. MUST TIE AND BRING TO THE ATTENTION OF THE PLATS AND PLANS MANAGER ANY ADDITIONAL UNLISTED MONUMENTS FOUND. UPON PAVING COMPLETION, THE R.E. WILL DIRECT THE PLATS AND PLANS MANAGER TO SET A NAIL TO MARK THE LOCATION FOR TYPE 1 CORING.

RESPONSIBILITY:
1) RESIDENT TO RE-ESTABLISH MONUMENT (PAY ITEM REQUIRED. PERMANENT SURVEY MARKER, TYPE 1)
2) PLATS AND PLANS TO RE-ESTABLISH MONUMENT

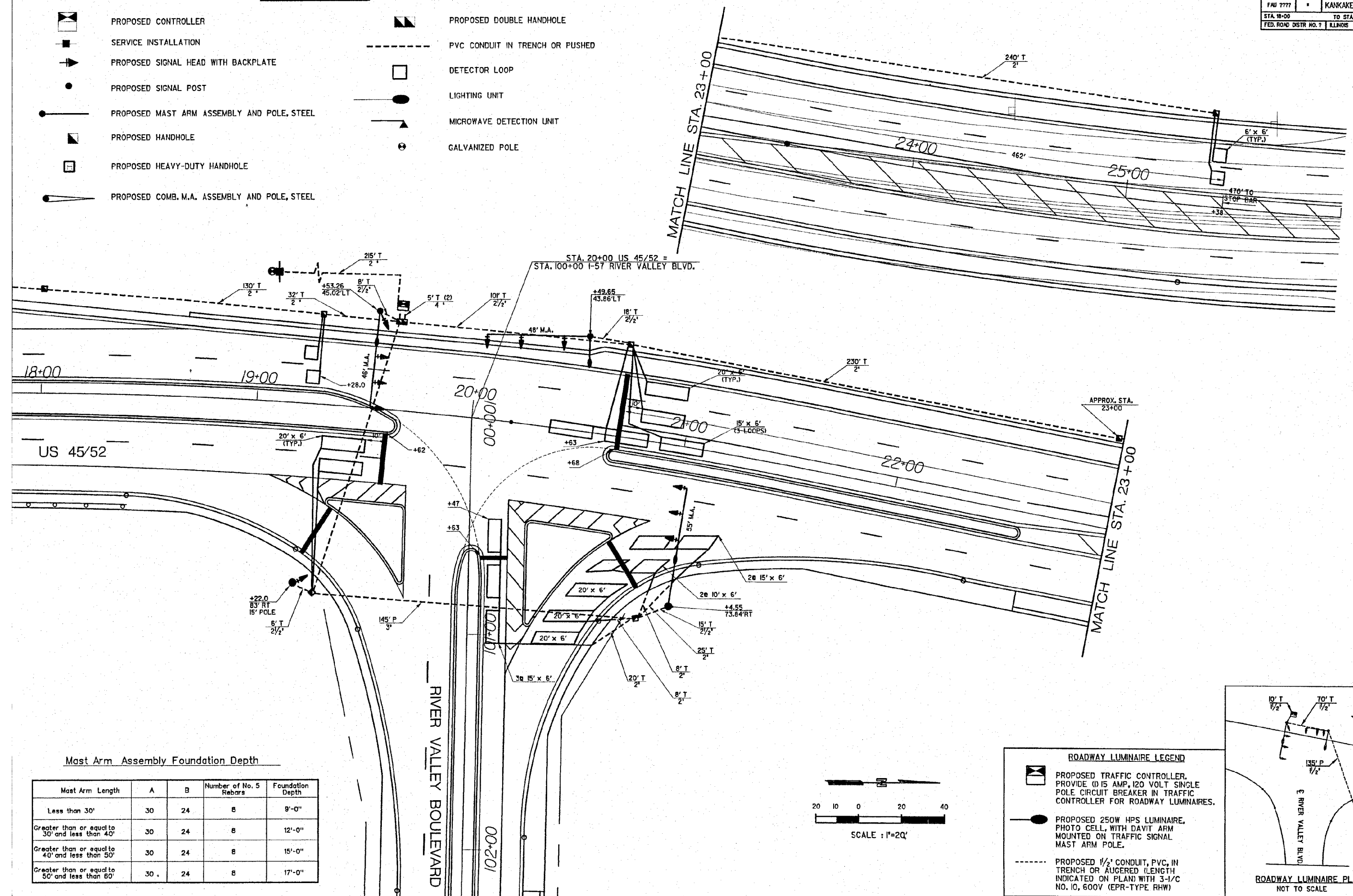


FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN VIEWS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
p:\1\084EBIDINTEG.illinois.gov\PI\DOT\Documents\IDOT Offices\District 3\Projects\0366\Drawings\B366H24-shr-plan.dgn		CHECKED -	REVISED -		SCALE: 50	SHEET	OF	SHEETS	STA. 115+00	TO STA. 142+50	840	137RS-7	KANKAKEE	21	12
PLOT SCALE = 99.9998 ' / in.		DATE -	REVISED -		CONTRACT NO. 66H24										
PLOT DATE = 3/20/2017					ILLINOIS FED. AID PROJECT										

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 7777		KANKAKEE	40	38
STA. 18+00	TO STA. 28+00			
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

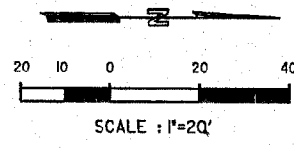
TRAFFIC SIGNAL LEGEND

- | | | | |
|--|--|--|---------------------------------|
| | PROPOSED CONTROLLER | | PROPOSED DOUBLE HANDHOLE |
| | SERVICE INSTALLATION | | PVC CONDUIT IN TRENCH OR PUSHED |
| | PROPOSED SIGNAL HEAD WITH BACKPLATE | | DETECTOR LOOP |
| | PROPOSED SIGNAL POST | | LIGHTING UNIT |
| | PROPOSED MAST ARM ASSEMBLY AND POLE, STEEL | | MICROWAVE DETECTION UNIT |
| | PROPOSED HANDHOLE | | GALVANIZED POLE |
| | PROPOSED HEAVY-DUTY HANDHOLE | | |
| | PROPOSED COMB. M.A. ASSEMBLY AND POLE, STEEL | | |



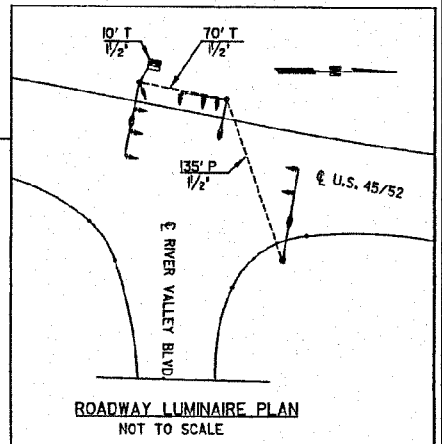
Mast Arm Assembly Foundation Depth

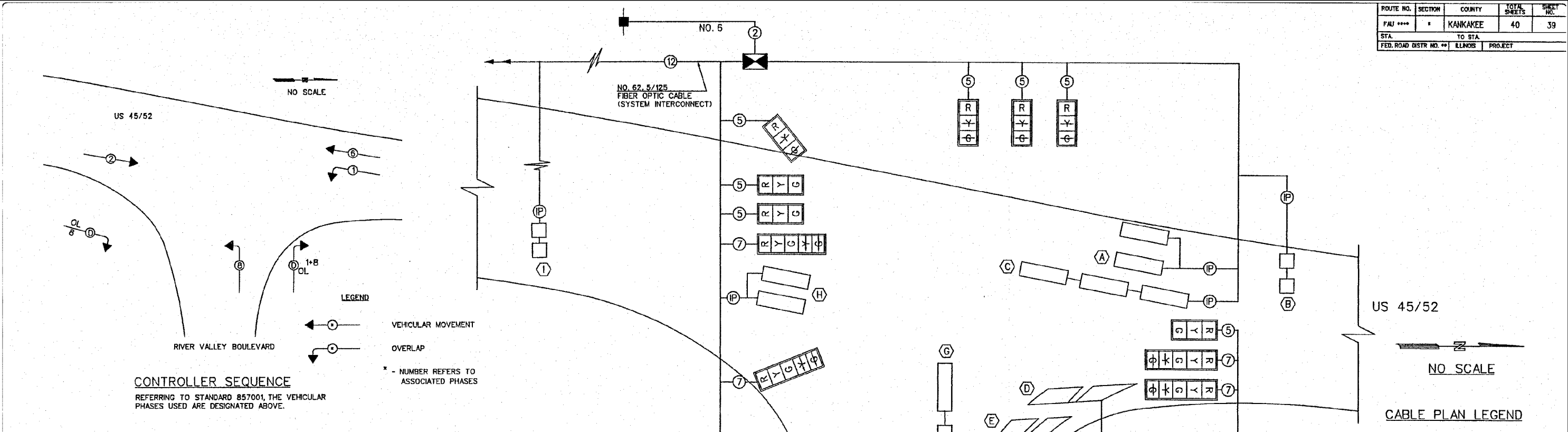
Mast Arm Length	A	B	Number of No. 5 Rebars	Foundation Depth
Less than 30'	30	24	8	9'-0"
Greater than or equal to 30' and less than 40'	30	24	8	12'-0"
Greater than or equal to 40' and less than 50'	30	24	8	15'-0"
Greater than or equal to 50' and less than 60'	30	24	8	17'-0"



ROADWAY LUMINAIRE LEGEND

- PROPOSED TRAFFIC CONTROLLER. PROVIDE (1) 15 AMP, 120 VOLT SINGLE POLE CIRCUIT BREAKER IN TRAFFIC CONTROLLER FOR ROADWAY LUMINAIRES.
- PROPOSED 250W HPS LUMINAIRE, PHOTO CELL, WITH DAVIT ARM MOUNTED ON TRAFFIC SIGNAL MAST ARM POLE.
- PROPOSED 1/2" CONDUIT, PVC, IN TRENCH OR AUGERED (LENGTH INDICATED ON PLAN) WITH 3-1/2" NO. 10, 600V (EPR-TYPE RHW)





CONTROLLER SEQUENCE
 REFERRING TO STANDARD 857001, THE VEHICULAR PHASES USED ARE DESIGNATED ABOVE.

LEGEND

← ○ → VEHICULAR MOVEMENT
 ← ○ → OVERLAP
 * - NUMBER REFERS TO ASSOCIATED PHASES

CABLE PLAN LEGEND

PROPOSED

☒ CONTROLLER CABINET
 ■ SERVICE INSTALLATION
 □ VEHICLE DETECTOR, INDUCTION LOOP
 ○ ELECTRIC CABLE IN CONDUIT
 * DENOTES NUMBER OF CONDUCTORS OR FIBER
 #P DENOTES NUMBER OF PARS IN TWISTED
 SHIELDED CABLE
 ALL CABLE NO. 14 EXCEPT AS INDICATED
 [R] 12" TRAFFIC SIGNAL SECTION
 [R
Y
G
-
Y
-
G]

RIVER VALLEY BOULEVARD			
CODE NO.	ITEM	UNIT	QUANTITY
70101700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	0.33
72000100	SIGN PANEL TYPE 1	SQ FT	5
72000200	SIGN PANEL TYPE 2	SQ FT	42.5
81012500	CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	80
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	908
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	148
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	8
81021320	CONDUIT PUSHED, 1 1/2" DIA., PVC	FOOT	135
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	145
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	126
81400400	CONCRETE HANDHOLE	EACH	7
81400800	CONCRETE DOUBLE HANDHOLE	EACH	1
82202450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	335
82401240	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	995
82401250	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	910
82401300	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAR	FOOT	4000
82401800	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	240
82500140	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 12F	FOOT	200
83202490	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15'	EACH	1
83402960	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48'	EACH	1
83402970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48'	EACH	1
83403000	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 55'	EACH	1
83800100	CONCRETE FOUNDATION, TYPE A	FOOT	3
83800200	CONCRETE FOUNDATION, TYPE D	FOOT	3
83800400	CONCRETE FOUNDATION, TYPE E 30" DIAMETER	FOOT	47
84020160	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
84020170	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
84020270	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
84020280	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	3
84200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	11
84600500	INDUCTIVE LOOP DETECTOR AMPLIFIER	EACH	9
84700100	DETECTOR LOOP, TYPE 1	FOOT	1090
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
84600100	TRANSCEIVER-FIBER OPTIC	EACH	1
85700200	SERVICE INSTALLATION, TYPE B	EACH	1
85800100	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1166
	LUMINAIRE SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT (SPECIAL)	EACH	3

ELECTRICAL LOAD CHART			
U.S. ROUTE 45/52			
	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	7	135	44.2
YELLOW	7	135	6.7
GREEN	7	135	48.8
YELLOW ARROW	2	135	5.8
GREEN ARROW	2	135	40.8

COURTYARD AVENUE			
	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	4	135	73.3
YELLOW ARROW	4	135	5
GREEN ARROW	4	135	45.8

TRAFFIC SIGNAL CABINET			
	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
LOOP DETECTOR	7	4	100

HIGHWAY LIGHTING			
	NUMBER	WATTAGE EACH	BURN TIME (%)
LUMINAIRE	3	310	342 HRS/MO

DETECTOR LOOP INDUCTANCE CHART						
LOOP SYSTEM	LABEL	PHASE	NUMBER OF TURNS	INDUCTANCE (mH)	FREQUENCY (HERTZ)	J PIN STATUS
A	SB STBR	6	4	551	26001	OFF
B	SB FAR	6	6	632	24278	ON
C	SB LT	1	4	814	21392	ON
D	WBRT FR	8	4	481	27829	OFF
E	WBRT MID	8	4	375	31517	OFF
F	WBRT BK	8	4	835	21121	ON
G	WBLT	8	4	696	23134	ON
H	NB STBR	2	4	548	26072	ON
I	NB FAR	2	6	763	22089	ON

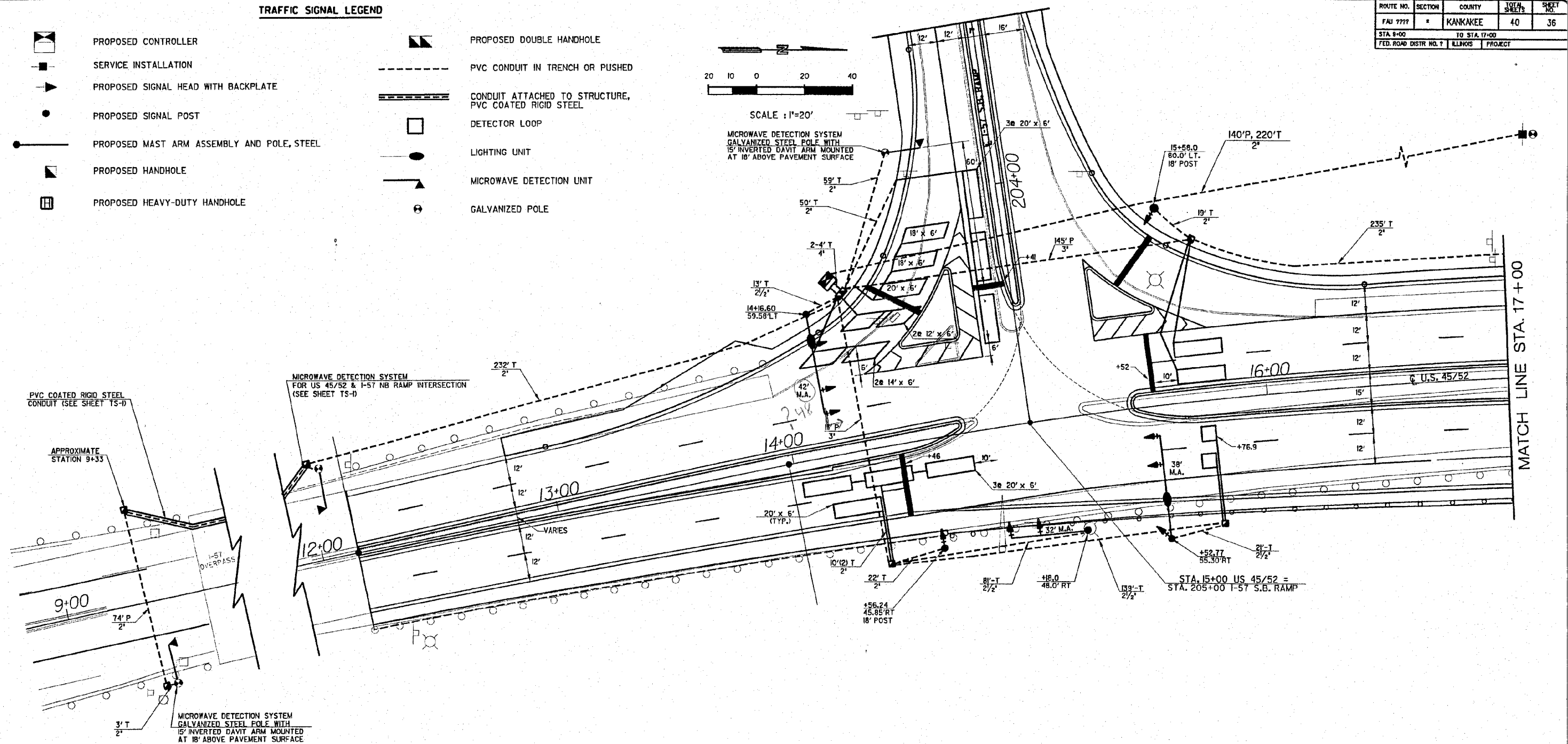
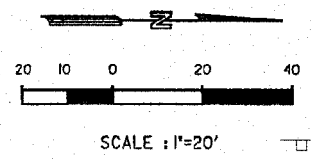
J PIN STATUS:
 'ON' MEANS STANDARD DETECTOR SETUP
 'OFF' MEANS THE J WIRE HAS BEEN DISCONNECTED, BUT INTACT AT THE HARMLESS PANEL WITH THE NECESSARY SPADE CONNECTION, ATTACHED, MARKED, AND INSULATED.

TRAFFIC SIGNAL GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. (J.U.L.I.E. 800-892-0123)
2. ALL DETECTOR AMPLIFIERS SHALL BE SINGLE CHANNEL AND SHELF MOUNTED.
3. ALL SIGNAL BASES SHALL BE LOCATED A MINIMUM OF 15 FEET FROM THE EDGE OF PAVEMENT OR 6 FEET FROM THE EDGE OF SHOULDER UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. A 1/4" DIAMETER CONTINUOUS NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER AS INCIDENTAL TO THE RESPECTIVE CONDUIT PAY ITEM.
5. THE PROPOSED TRAFFIC SIGNAL CONTROL CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CORD WITHIN THE POLICE DOOR COMPARTMENT AS INCIDENTAL TO THE CONTROL CABINET PAY ITEM.
6. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON, INCIDENTAL TO THE CONTROLLER PAY ITEM.
7. THE DEPARTMENT OF TRANSPORTATION (815-434-8506) SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE TURNING ON OF THE CONTROLLER UNIT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNAL AND STREET LIGHTING. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.
9. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FEET MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
10. ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER.
11. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
12. ALL DETECTOR LOOP HARNESSES SHALL BE FURNISHED WITH PLASTIC TAGS LABELED WITH RESPECTIVE PHASES AND DIRECTION AS LISTED IN THE DETECTOR LOOP CHART. MINIMUM TAG SIZE OF 3/8" BY 1/4". ALL DETECTOR AMPLIFIERS SHALL BE LABELED THE SAME AS THE HARNESS WITH A REMOVABLE TAG. TAGS SHALL BE MADE OF A MATERIAL THAT DOES NOT ALLOW WRITING TO FADE OVER TIME.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY, INCIDENTAL TO THE CONDUIT OR FOUNDATION PAY ITEM.
14. ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
15. THE LENGTH OF DETECTOR LOOP CABLE FROM THE SHOULDER TO THE HANDHOLE IS INCIDENTAL TO THE DETECTOR LOOP PAY ITEM.
16. DOUBLE FUSED FUSE HOLDERS AND SURGE ARRESTORS ARE TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR IN THE BASE OF THE COMBINATION MAST ARM AS INCIDENTAL TO THE LIGHT FIXTURE PAY ITEM. THE LIGHT FIXTURE ON THE COMBINATION MAST ARM SHALL BE ATTACHED TO AN 15 FOOT ARM AS SHOWN IN THE STANDARD DRAWINGS, UNLESS SPECIFICALLY STATED OTHERWISE ELSEWHERE IN THE PLANS.
17. THE ENGINEER SHALL APPROVE THE LOCATION OF THE DETECTOR LOOPS BEFORE SLOTS ARE SAWS IN THE PAVEMENT.
18. THE CONTROLLER SHALL BE ORIENTED SUCH THAT INTERSECTION OPERATION AND CONTROLLER COMPONENTS CAN BE VIEWED SIMULTANEOUSLY.
19. DIVE HOLES FOR ALL CONDUITS FOR DETECTOR TAILS SHALL BE SEPARATED BY A MINIMUM OF SIX INCHES.

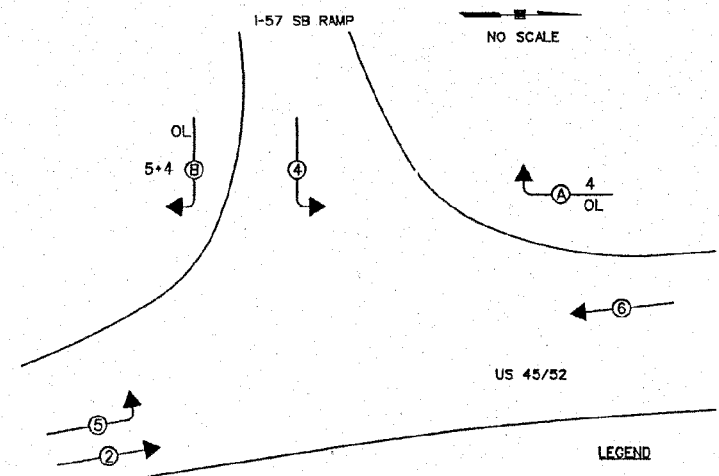
TRAFFIC SIGNAL LEGEND

- | | | | |
|--|--|--|---|
| | PROPOSED CONTROLLER | | PROPOSED DOUBLE HANDHOLE |
| | SERVICE INSTALLATION | | PVC CONDUIT IN TRENCH OR PUSHED |
| | PROPOSED SIGNAL HEAD WITH BACKPLATE | | CONDUIT ATTACHED TO STRUCTURE, PVC COATED RIGID STEEL |
| | PROPOSED SIGNAL POST | | DETECTOR LOOP |
| | PROPOSED MAST ARM ASSEMBLY AND POLE, STEEL | | LIGHTING UNIT |
| | PROPOSED HANDHOLE | | MICROWAVE DETECTION UNIT |
| | PROPOSED HEAVY-DUTY HANDHOLE | | GALVANIZED POLE |

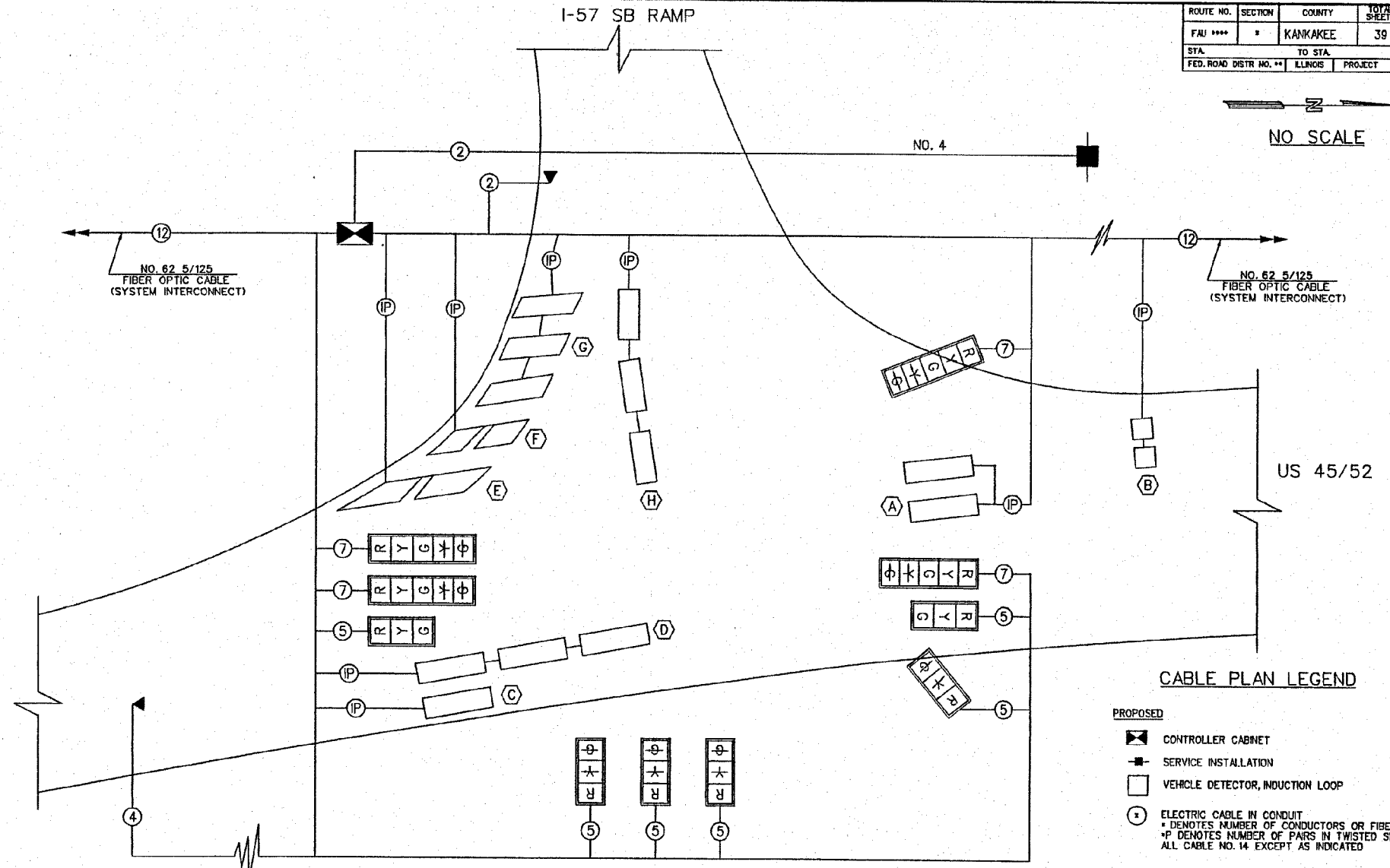
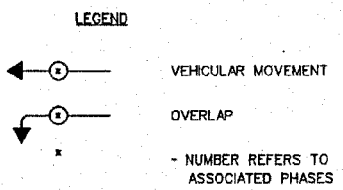


Mast Arm Assembly Foundation Depth

Mast Arm Length	A	B	Number of No. 5 Rebars	Foundation Depth
Less than 30'	30	24	8	9'-0"
Greater than or equal to 30' and less than 40'	30	24	8	12'-0"
Greater than or equal to 40' and less than 50'	30	24	8	15'-0"
Greater than or equal to 50' and less than 60'	30	24	8	17'-0"



CONTROLLER SEQUENCE
 REFERRING TO STANDARD 857001, THE VEHICULAR PHASES USED ARE DESIGNATED ABOVE.



CABLE PLAN LEGEND

- PROPOSED**
- ☒ CONTROLLER CABINET
 - ☒ SERVICE INSTALLATION
 - ☐ VEHICLE DETECTOR, INDUCTION LOOP
 - ELECTRIC CABLE IN CONDUIT
 * DENOTES NUMBER OF CONDUCTORS OR FIBERS
 *P DENOTES NUMBER OF PAIRS IN TWISTED SHIELDED CABLE
 ALL CABLE NO. 14 EXCEPT AS INDICATED
 - ☒ 12" TRAFFIC SIGNAL SECTION
 - ☒ MICROWAVE DETECTOR UNIT
 - ☒ SIGNAL FACE WITH BACKPLATE

S.B. RAMP			
CODE NO.	ITEM	UNIT	QUANTITY
70101700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L. SUM	0.33
72000100	SIGN PANEL TYPE 1	SQ. FT.	5
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	857
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	115
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	8
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	256
81400400	CONCRETE HANDHOLE	EACH	3
81400500	CONCRETE DOUBLE HANDHOLE	EACH	1
82401240	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1369
82401250	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	650
82401300	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1329
82401800	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	360
82500140	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 12F	FOOT	650
83202520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18'	EACH	2
83400200	STEEL MAST ARM ASSEMBLY AND POLE, 32'	EACH	1
83402820	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 38'	EACH	1
83402940	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 42'	EACH	1
83800100	CONCRETE FOUNDATION, TYPE A	FOOT	6
83800200	CONCRETE FOUNDATION, TYPE D	FOOT	3
83800400	CONCRETE FOUNDATION, TYPE E 30" DIAMETER	FOOT	39
84020180	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
84020170	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
84020270	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
84020280	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	3
84200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	10
84400250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250W	EACH	2
84600105	INDUCTION LOOP DETECTOR (SPECIAL)	EACH	9
84700100	DETECTOR LOOP, TYPE 1	FOOT	1029
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86000100	MASTER CONTROLLER	EACH	1
86400100	TRANSCIVER-FIBER OPTIC	EACH	1
86700200	SERVICE INSTALLATION, TYPE B	EACH	1
86800100	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1192
	MICROWAVE DETECTION UNIT	EACH	2

ELECTRICAL LOAD CHART
 U.S. ROUTE 45/52

	NUMBER	WATTAGE EACH	BURN TIME (2)
RED	6	135	55
YELLOW	6	135	6.7
GREEN	6	135	38.3
YELLOW ARROW	2	135	6.7
GREEN ARROW	2	135	40.8

I-57 SB RAMP

	NUMBER	WATTAGE EACH	BURN TIME (2)
RED	4	135	58.3
YELLOW ARROW	4	135	6.7
GREEN ARROW	4	135	51.7

TRAFFIC SIGNAL CABINET

	NUMBER	WATTAGE EACH	BURN TIME (2)
CONTROLLER	1	6	100
LOOP DETECTOR	6	4	100

DETECTOR LOOP INDUCTANCE CHART

LOOP SYSTEM	LABEL	PHASE	NUMBER OF TURNS	INDUCTANCE (μh)	FREQUENCY (HERTZ)	J PIN STATUS
A	SB STBR	6	4	545	2614.4	ON
B	SB FAR	6	6	624	2442.8	ON
C	NB STBR	2	4	290	3584.0	ON
D	NBLT	5	4	814	2139.2	ON
E	EBRT FR	4	4	448	2883.5	OFF
F	EBRT MID	4	4	384	3114.6	OFF
G	EBRT BK	4	4	765	2208.6	ON
H	EBLT	4	4	789	2159.2	ON

J PIN STATUS:
 'ON' MEANS STANDARD DETECTOR SETUP
 'OFF' MEANS THE J WIRE HAS BEEN DISCONNECTED, BUT INTACT AT THE HARMLESS PANEL WITH THE NECESSARY SPADE CONNECTION, ATTACHED, MARKED, AND INSULATED.

CABLE DIAGRAM

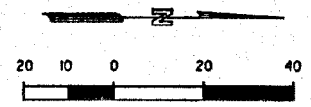
TRAFFIC SIGNAL GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. (J.U.L.I.E. 800-892-0123)
- ALL DETECTOR AMPLIFIERS SHALL BE SINGLE CHANNEL AND SHELF MOUNTED.
- ALL SIGNAL BASES SHALL BE LOCATED A MINIMUM OF 15 FEET FROM THE EDGE OF PAVEMENT OR 6 FEET FROM THE EDGE OF SHOULDER UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- A 1/2" DIAMETER CONTINUOUS NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER AS INCIDENTAL TO THE RESPECTIVE CONDUIT PAY ITEM.
- THE PROPOSED TRAFFIC SIGNAL CONTROL CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CORD WITHIN THE POLICE DOOR COMPARTMENT AS INCIDENTAL TO THE CONTROL CABINET PAY ITEM.
- THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON, INCIDENTAL TO THE CONTROLLER PAY ITEM.
- THE DEPARTMENT OF TRANSPORTATION (815-434-8505) SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE TURNING ON OF THE CONTROLLER UNIT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNAL AND STREET LIGHTING. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.
- NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FEET MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER.
- THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
- ALL DETECTOR LOOP HARNESSES SHALL BE FURNISHED WITH PLASTIC TAGS LABELED WITH RESPECTIVE PHASES AND DIRECTION AS LISTED IN THE DETECTOR LOOP CHART. MINIMUM TAG SIZE OF 3/8" BY 3/4". ALL DETECTOR AMPLIFIERS SHALL BE LABELED THE SAME AS THE HARNESS WITH A REMOVABLE TAG. TAGS SHALL BE MADE OF A MATERIAL THAT DOES NOT ALLOW WRITING TO FADE OVER TIME.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY, INCIDENTAL TO THE CONDUIT OR FOUNDATION PAY ITEM.
- ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
- THE LENGTH OF DETECTOR LOOP CABLE FROM THE SHOULDER TO THE HANDHOLE IS INCIDENTAL TO THE DETECTOR LOOP PAY ITEM.
- DOUBLE FUSED FUSE HOLDERS AND SURGE ARRESTORS ARE TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR IN THE BASE OF THE COMBINATION MAST ARM AS INCIDENTAL TO THE LIGHT FIXTURE PAY ITEM. THE LIGHT FIXTURE ON THE COMBINATION MAST ARM SHALL BE ATTACHED TO AN 16 FOOT ARM AS SHOWN IN THE STANDARD DRAWINGS, UNLESS SPECIFICALLY STATED OTHERWISE ELSEWHERE IN THE PLANS.
- THE ENGINEER SHALL APPROVE THE LOCATION OF THE DETECTOR LOOPS BEFORE SLOTS ARE SAWED IN THE PAVEMENT.
- THE CONTROLLER SHALL BE ORIENTED SUCH THAT INTERSECTION OPERATION AND CONTROLLER COMPONENTS CAN BE VIEWED SIMULTANEOUSLY.
- DIVE HOLES FOR ALL CONDUITS FOR DETECTOR TAILS SHALL BE SEPARATED BY A MINIMUM OF SIX INCHES.

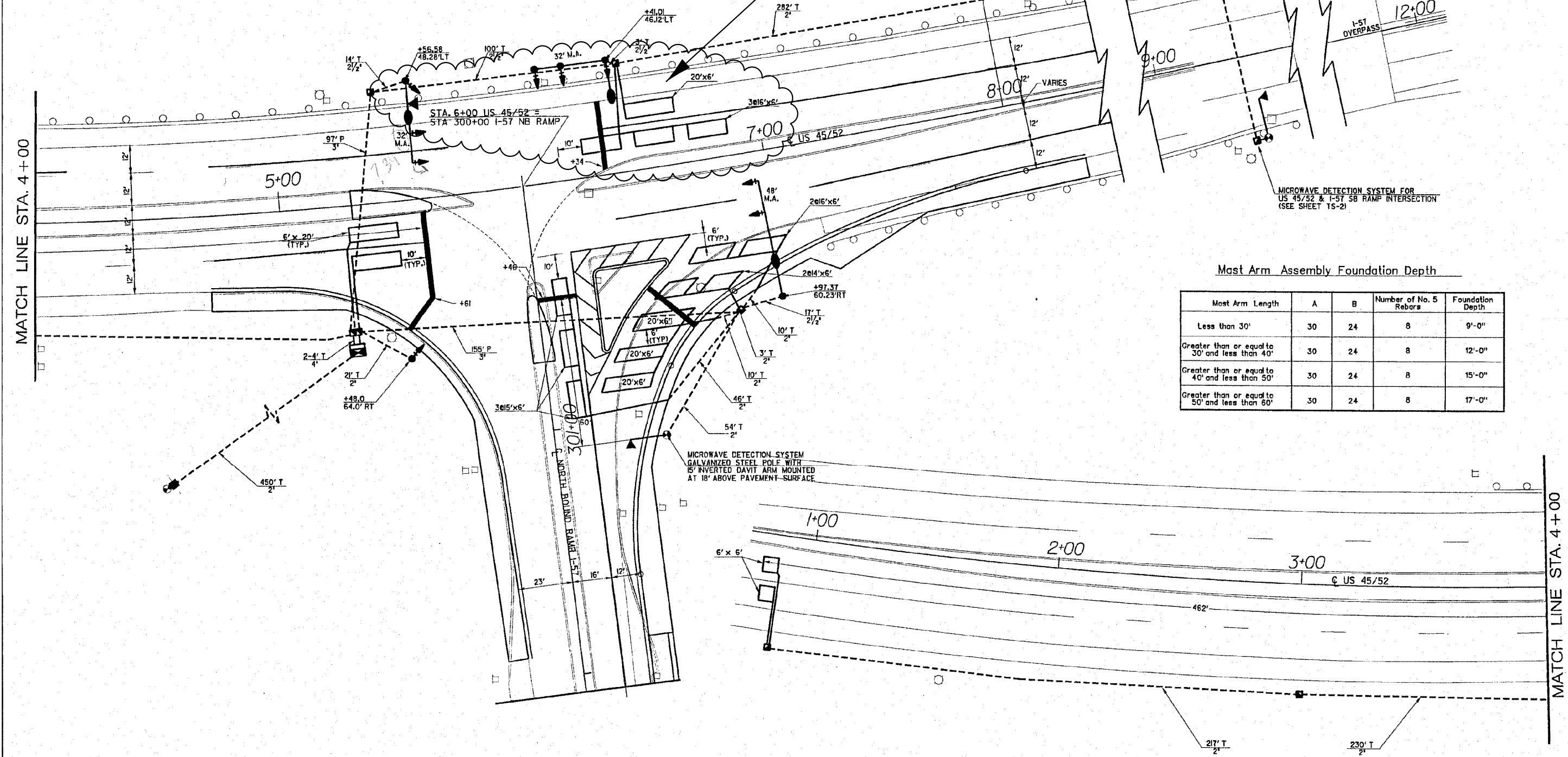
TRAFFIC SIGNAL LEGEND

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 7777		KANKAKEE	40	34
STA. 1+00		TO STA. 12+00		
FED. ROAD DIST. NO. 7		ILLINOIS		PROJECT

- PROPOSED CONTROLLER
- SERVICE INSTALLATION
- PROPOSED SIGNAL HEAD WITH BACKPLATE
- PROPOSED SIGNAL POST
- PROPOSED MAST ARM ASSEMBLY AND POLE, STEEL
- PROPOSED HANDHOLE
- PROPOSED HEAVY-DUTY HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PVC CONDUIT IN TRENCH OR PUSHED
- CONDUIT ATTACHED TO STRUCTURE, PVC COATED RIGID STEEL
- DETECTOR LOOP
- LIGHTING UNIT
- MICROWAVE DETECTION UNIT
- GALVANIZED POLE



CURRENTLY A FLIR DETECTION DEVICE IS BEING USED FOR THIS AREA. PER THE CITY OF KANKAKEE INSTALL THE LOOPS AS SHOWN TO BE USED AS BACKUP IN THE EVENT THE FLIR FAILS.



Mast Arm Assembly Foundation Depth

Mast Arm Length	A	B	Number of No. 5 Rebars	Foundation Depth
Less than 30'	30	24	8	9'-0"
Greater than or equal to 30' and less than 40'	30	24	8	12'-0"
Greater than or equal to 40' and less than 50'	30	24	8	15'-0"
Greater than or equal to 50' and less than 60'	30	24	8	17'-0"

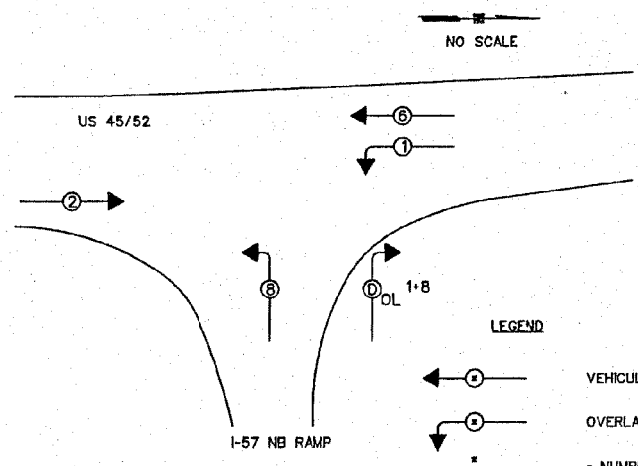
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	PLOT DATE = 3/20/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING DETECTOR LOOPS
FOR INFORMATION ONLY**

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	139RS-7	KANKAKEE	21	17
CONTRACT NO. 66H24				
ILLINOIS FED. AID PROJECT				



CONTROLLER SEQUENCE
 REFERRING TO STANDARD 857001, THE VEHICULAR PHASES USED ARE DESIGNATED ABOVE.

N.B. RAMP			
CODE NO.	ITEM	UNIT	QUANTITY
70101700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	0.33
72000100	SIGN PANEL TYPE 1	SQ FT	5
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	1302
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	134
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	8
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	252
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 8"x6"x4"	EACH	4
81400400	CONCRETE HANDHOLE	EACH	5
81400800	CONCRETE DOUBLE HANDHOLE	EACH	1
82401240	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1580
82401250	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	215
82401300	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	1780
82401800	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	450
82500140	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 12F	FOOT	796
83202520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18'	EACH	2
83402890	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32'	EACH	2
83402970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48'	EACH	1
83800100	CONCRETE FOUNDATION, TYPE A	FOOT	3
83800200	CONCRETE FOUNDATION, TYPE D	FOOT	3
83800400	CONCRETE FOUNDATION, TYPE E 30" DIAMETER	FOOT	39
84020160	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
84020170	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
84020270	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
84020280	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
84200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	9
84400250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250W	EACH	3
84800105	INDUCTION LOOP DETECTOR (SPECIAL)	EACH	10
84700100	DETECTOR LOOP, TYPE 1	FOOT	850
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86400100	TRANSCEIVER-FIBER OPTIC	EACH	1
86700200	SERVICE INSTALLATION, TYPE B	EACH	1
86800100	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1449
	MICROWAVE DETECTION UNIT	EACH	2
	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED RIGID STEEL	FOOT	273

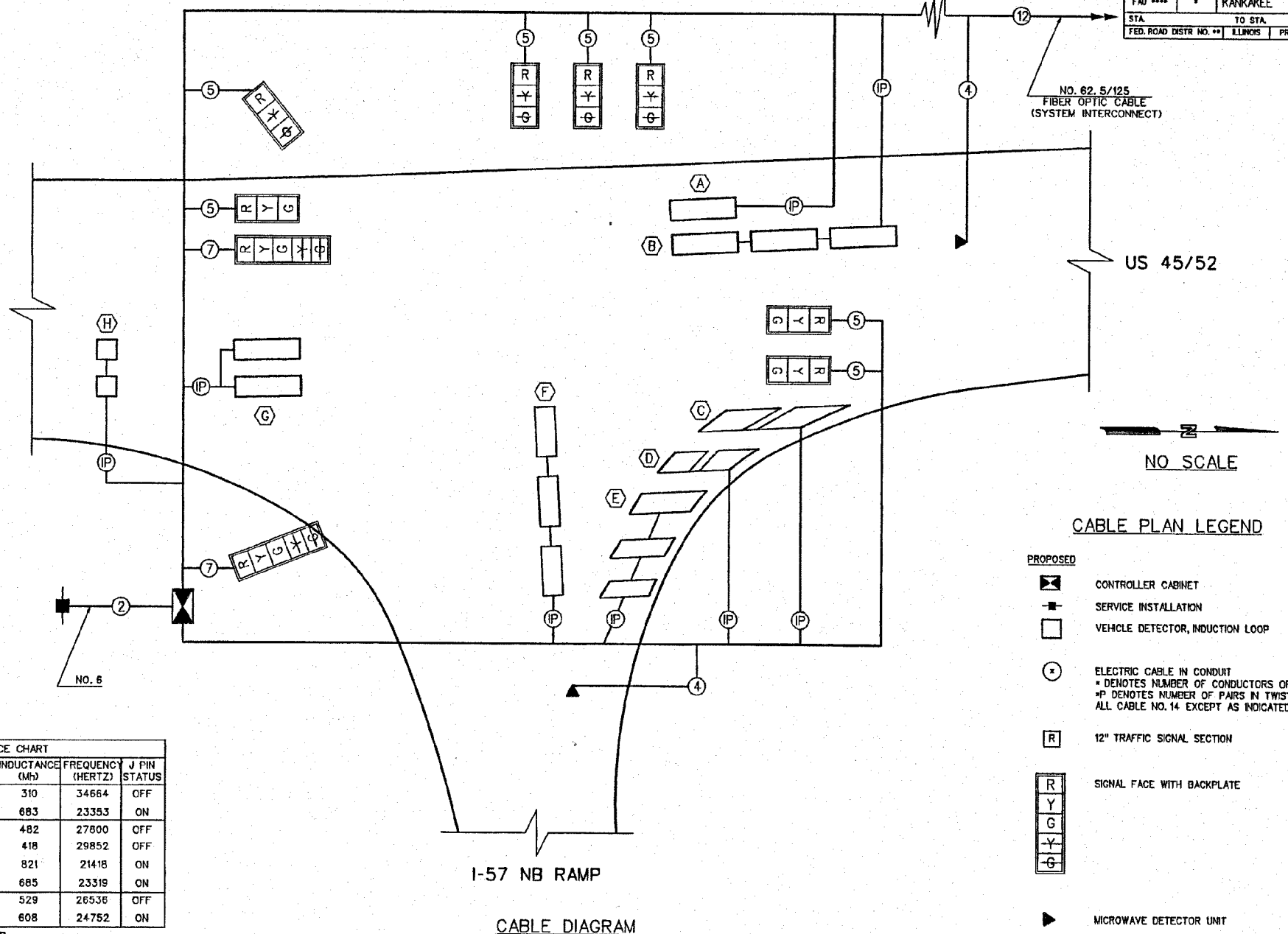
DETECTOR LOOP INDUCTANCE CHART						
LOOP SYSTEM	LABEL	PHASE	NUMBER OF TURNS	INDUCTANCE (MH)	FREQUENCY (HERTZ)	J PIN STATUS
A	SB STBR	6	4	310	34664	OFF
B	SB LT	1	4	683	23353	ON
C	WBRT FR	8	4	482	27800	OFF
D	WBRT MID	8	4	418	29852	OFF
E	WBRT BK	8	4	821	21418	ON
F	WBLT	8	4	685	23319	ON
G	NB STBR	2	4	529	26536	OFF
H	NB FAR	2	6	608	24752	ON

J PIN STATUS:
 ON MEANS STANDARD DETECTOR SETUP
 OFF MEANS THE J WIRE HAS BEEN DISCONNECTED, BUT INTACT AT THE HARMLESS PANEL WITH THE NECESSARY SPADE CONNECTION, ATTACHED, MARKED, AND INSULATED.

ELECTRICAL LOAD CHART			
U.S. ROUTE 45/52			
	NUMBER	WATTAGE EACH	BURN TIME (HRS)
RED	5	135	61.7
YELLOW	5	135	6.7
GREEN	5	135	31.7
YELLOW ARROW	2	135	6.7
GREEN ARROW	2	135	29.2

I-57 NORTHBOUND RAMP			
	NUMBER	WATTAGE EACH	BURN TIME (HRS)
RED	4	135	76.7
YELLOW ARROW	4	135	6.7
GREEN ARROW	4	135	45.8

TRAFFIC SIGNAL CABINET			
	NUMBER	WATTAGE EACH	BURN TIME (HRS)
CONTROLLER	1	6	100
LOOP DETECTOR	8	4	100

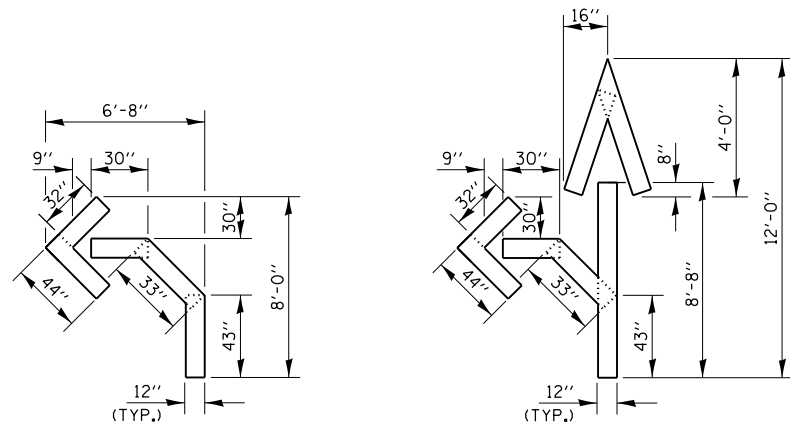


CABLE PLAN LEGEND

- PROPOSED
- CONTROLLER CABINET
 - SERVICE INSTALLATION
 - VEHICLE DETECTOR, INDUCTION LOOP
 - ELECTRIC CABLE IN CONDUIT
 * DENOTES NUMBER OF CONDUCTORS OR FIBERS
 *P DENOTES NUMBER OF PAIRS IN TWISTED SHIELDED CABLE
 ALL CABLE NO. 14 EXCEPT AS INDICATED
 - 12" TRAFFIC SIGNAL SECTION
 - SIGNAL FACE WITH BACKPLATE
 - MICROWAVE DETECTION UNIT

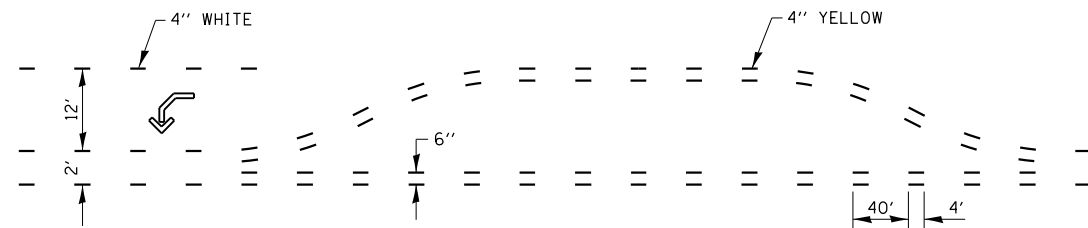
TRAFFIC SIGNAL GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. (I.U.U.I.E. 800-892-0123)
- ALL DETECTOR AMPLIFIERS SHALL BE SINGLE CHANNEL AND SHELF MOUNTED.
- ALL SIGNAL BASES SHALL BE LOCATED A MINIMUM OF 15 FEET FROM THE EDGE OF PAVEMENT OR 6 FEET FROM THE EDGE OF SHOULDER UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- A 1/4" DIAMETER CONTINUOUS NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER AS INCIDENTAL TO THE RESPECTIVE CONDUIT PAY ITEM.
- THE PROPOSED TRAFFIC SIGNAL CONTROL CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CORD WITHIN THE POLICE DOOR COMPARTMENT AS INCIDENTAL TO THE CONTROL CABINET PAY ITEM.
- THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON, INCIDENTAL TO THE CONTROLLER PAY ITEM.
- THE DEPARTMENT OF TRANSPORTATION (815-434-8506) SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE TURNING ON OF THE CONTROLLER UNIT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNAL AND STREET LIGHTING. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.
- NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FEET MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER.
- THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
- ALL DETECTOR LOOP HARNESSES SHALL BE FURNISHED WITH PLASTIC TAGS LABELED WITH RESPECTIVE PHASES AND DIRECTION AS LISTED IN THE DETECTOR LOOP CHART. MINIMUM TAG SIZE OF 3/8" BY 1/2". ALL DETECTOR AMPLIFIERS SHALL BE LABELED THE SAME AS THE HARNESS WITH A REMOVABLE TAG. TAGS SHALL BE MADE OF A MATERIAL THAT DOES NOT ALLOW WRITING TO FADE OVER TIME.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY, INCIDENTAL TO THE CONDUIT OR FOUNDATION PAY ITEM.
- ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
- DOUBLE FUSED FUSE HOLDERS AND SURGE ARRESTORS ARE TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR IN THE BASE OF THE COMBINATION MAST ARM AS INCIDENTAL TO THE LIGHT FIXTURE PAY ITEM. THE LIGHT FIXTURE ON THE COMBINATION MAST ARM SHALL BE ATTACHED TO AN 18 FOOT ARM AS SHOWN IN THE STANDARD DRAWINGS, UNLESS SPECIFICALLY STATED OTHERWISE ELSEWHERE IN THE PLANS.
- THE ENGINEER SHALL APPROVE THE LOCATION OF THE DETECTOR LOOPS BEFORE SLOTS ARE SAWS IN THE PAVEMENT.
- THE CONTROLLER SHALL BE ORIENTED SUCH THAT INTERSECTION OPERATION AND CONTROLLER COMPONENTS CAN BE VIEWED SIMULTANEOUSLY.
- DIVE HOLES FOR ALL CONDUITS FOR DETECTOR TAILS SHALL BE SEPARATED BY A MINIMUM OF SIX INCHES.

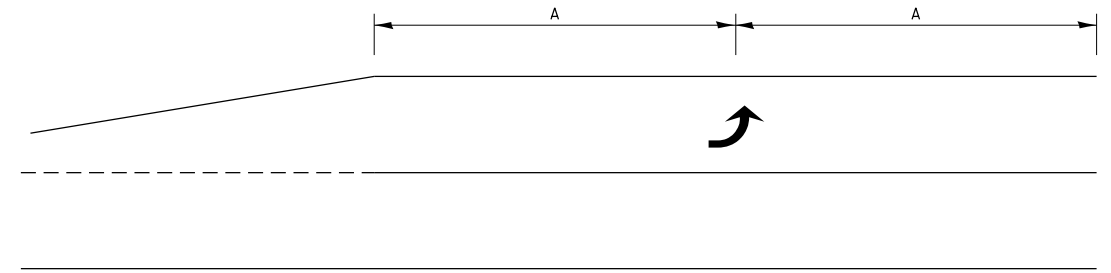


QUANTITY
 12" LINE = 16 LIN FT
 OR 4" LINE = 48 LIN FT

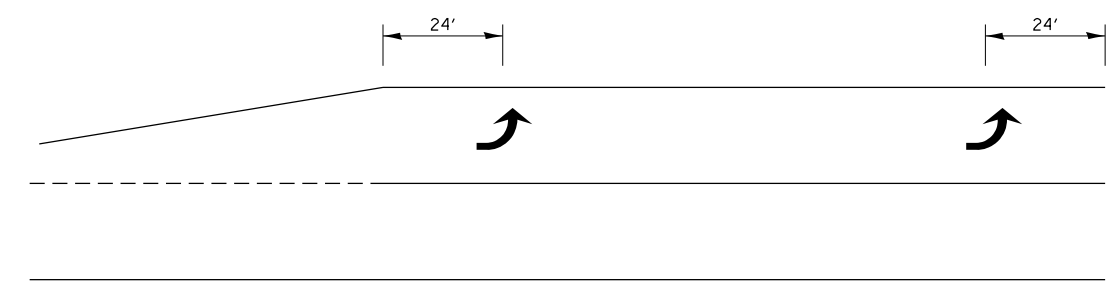
QUANTITY
 12" LINE = 29 LIN FT
 OR 4" LINE = 87 LIN FT



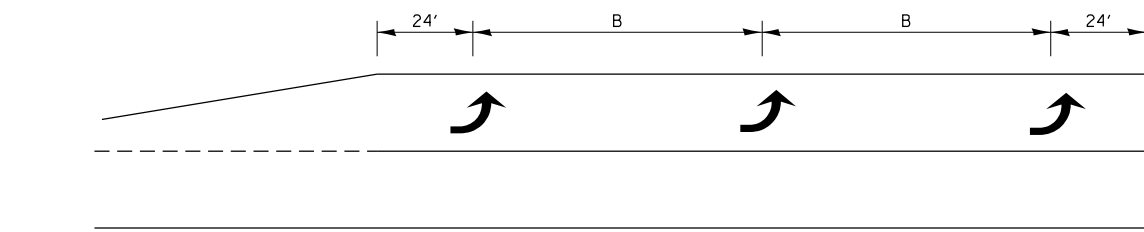
**SHORT-TERM PAVEMENT MARKING
 FOR MEDIANS AND ARROWS**



99' AND UNDER

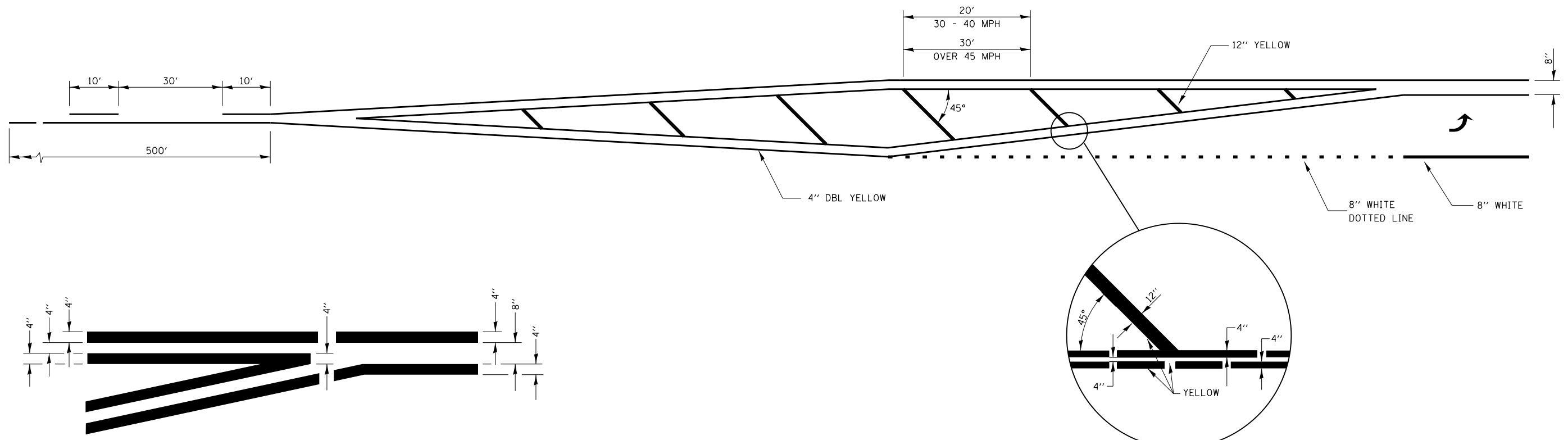


100' TO 149'

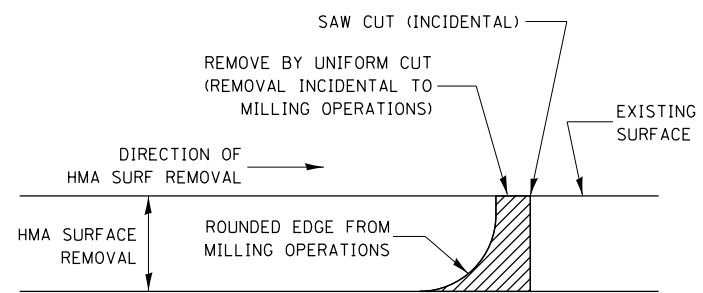


150' AND LONGER

**TYPICAL PLACEMENT OF ARROWS
 IN TURN LANES**

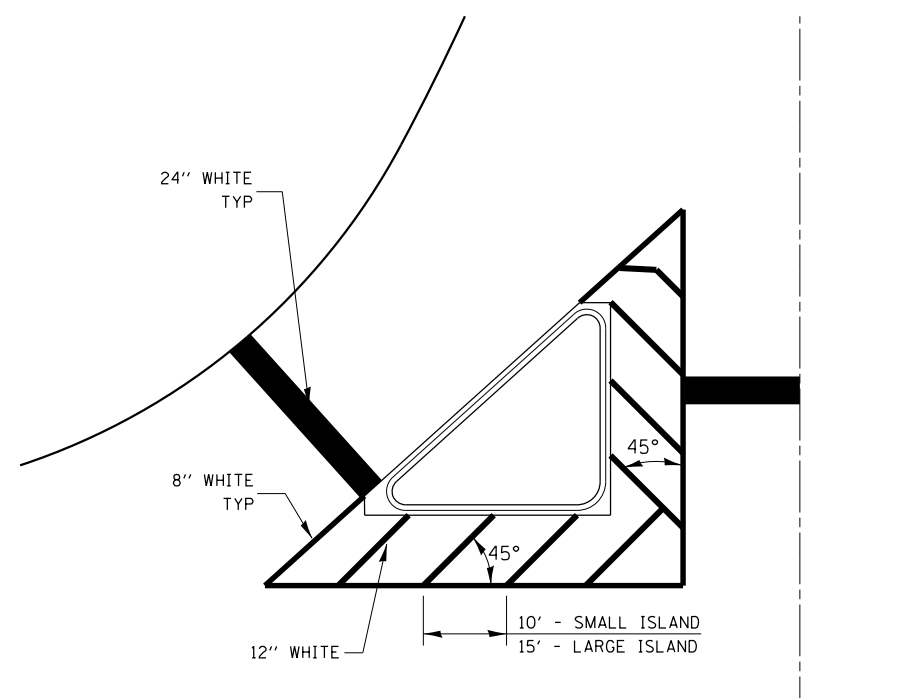


**TYPICAL APPLICATION
LEFT TURN LANES**



NOTE:
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

HMA DETAIL AT BUTT JOINTS



TYPICAL ISLAND

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -
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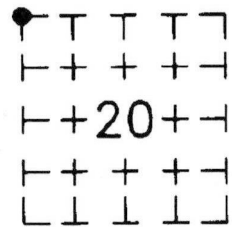
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	139RS-7	KANKAKEE	21	20
CONTRACT NO. 66H24				
ILLINOIS FED. AID PROJECT				

"MONUMENT RECORD"

LAND SURVEY MONUMENTS SITUATED IN
SECTION 20 TWP 30 N.
RANGE 13 W., 2nd P.M.
KANKAKEE COUNTY, IL



NORTH
(NOT TO SCALE)

State of Illinois
Kankakee, County
Rec'd for Record

05-05-98 11:38:20

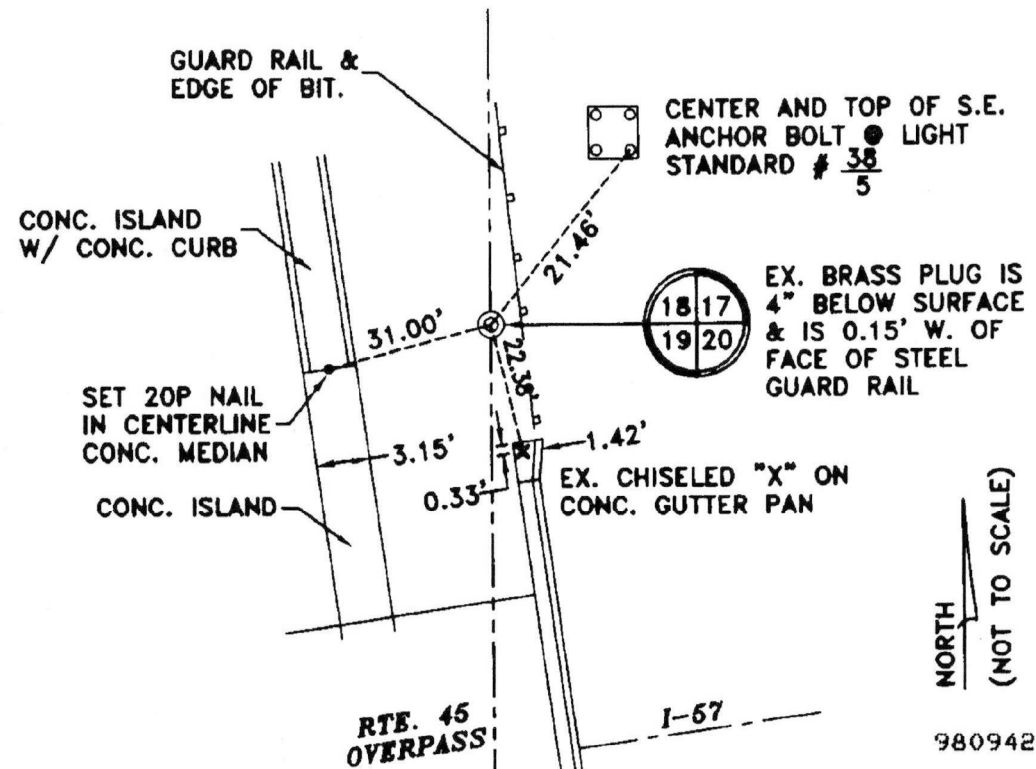
9809428

Dennis B. Coy
Kankakee County Recorder of Deeds

SPACE RESERVED FOR RECORDING OFFICER

RECOVERY TIE DRAWING

(SHOW MONUMENT DESCRIPTION, ACCESSORIES & KNOWN HISTORY AT EACH RECORD CORNER WITH TIES.)



NORTH
(NOT TO SCALE)

9809428

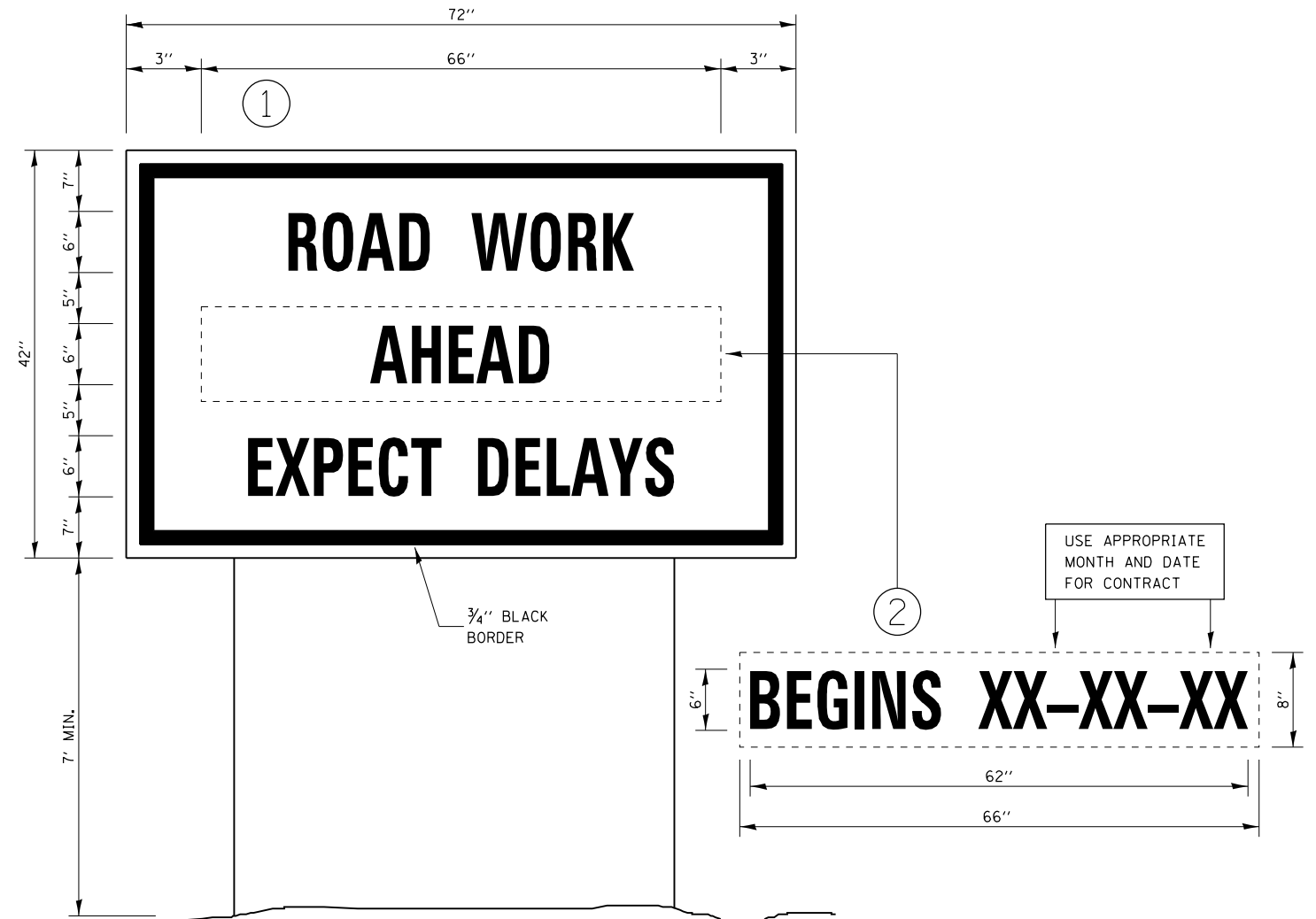


(SEAL)

I, MICHAEL V. FITZSIMMONS, HEREBY
CERTIFY THAT THIS DOCUMENT WAS PREPARED
UNDER MY DIRECTION IN ACCORDANCE WITH
THE LAND SURVEY MONUMENT ACT
CHAPTER 765 ILCS 220.

Michael V. Fitzsimmons
ILL. PLS NO. 035-002970 DATE 4-30-98

SHEET 1 OF 1



TEMPORARY INFORMATION SIGNING

NOTES:

1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -
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Default	PLOT DATE = 3/20/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS

SCALE: SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	139RS-7	KANKAKEE	21	21
CONTRACT NO. 66H24				
ILLINOIS FED. AID PROJECT				