

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-0241	VARIES	38	1
		ILLINOIS	CONTRACT NO. 62F20	
COOK AND DUPAGE COUNTY				

FOR INDEX OF SHEETS, SEE SHEET NO. 2

SE3, LLC
DAVID BENNETT, P.E.

DATE: 03/18/2020

SIGNATURE AND SEAL APPLIES TO DRAWING(S): ALL DRAWINGS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 344 (IL 83 – KINGERY HIGHWAY)
IL ROUTE 171 TO THIRD AVENUE
SECTION: 2017-0241
PROJECT: HSIP-ROMN(909)
SAFETY IMPROVEMENTS
COOK AND DUPAGE COUNTY
C-91-263-17

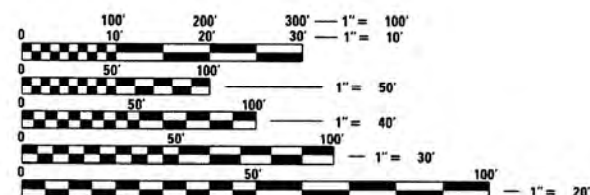
THIS IMPROVEMENT IS LOCATED
WITHIN COOK AND DUPAGE COUNTY.

DESIGN DESIGNATION

- ARTERIAL ROUTE AT SOUTHERN AND NORTHERN END OF PROJECT LIMITS
- LIMITED ACCESS EXPRESSWAY AT INTERCHANGES WITH I-55, 55TH ST, US 34, IL 38, US 20, AND I-290

TRAFFIC DATA

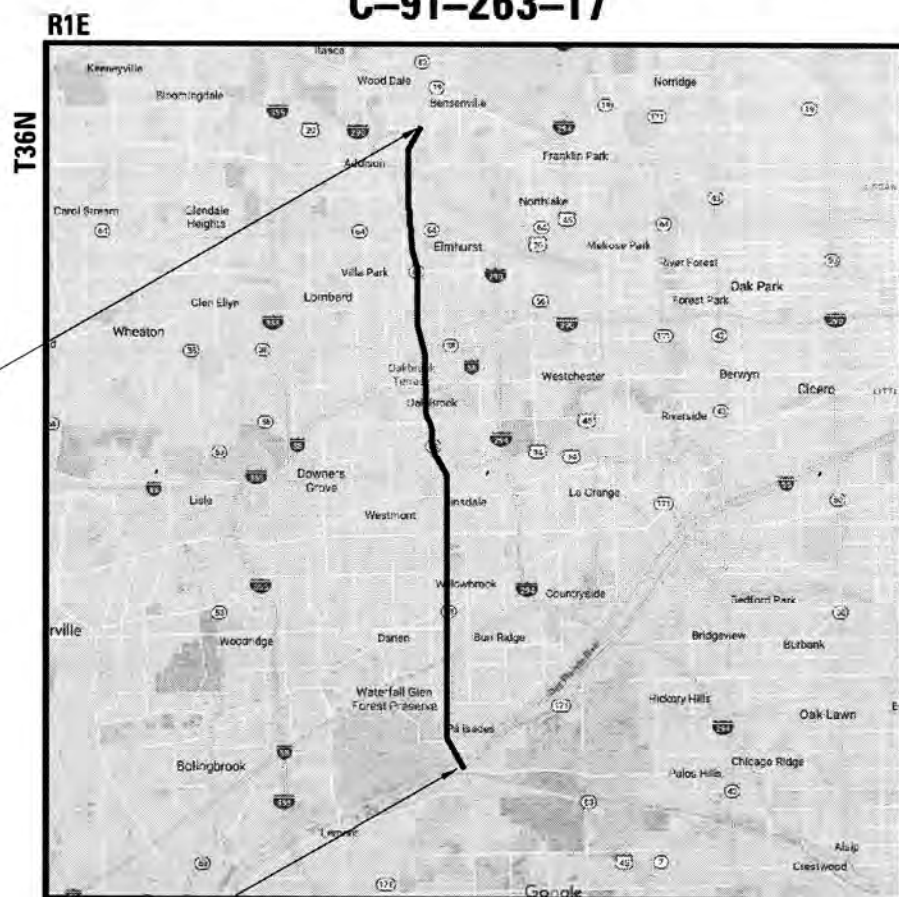
ADT (2017) = 19,800 TO 68,900
POSTED SPEED = 40-55 MPH
DESIGN SPEED = 40-55 MPH



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.

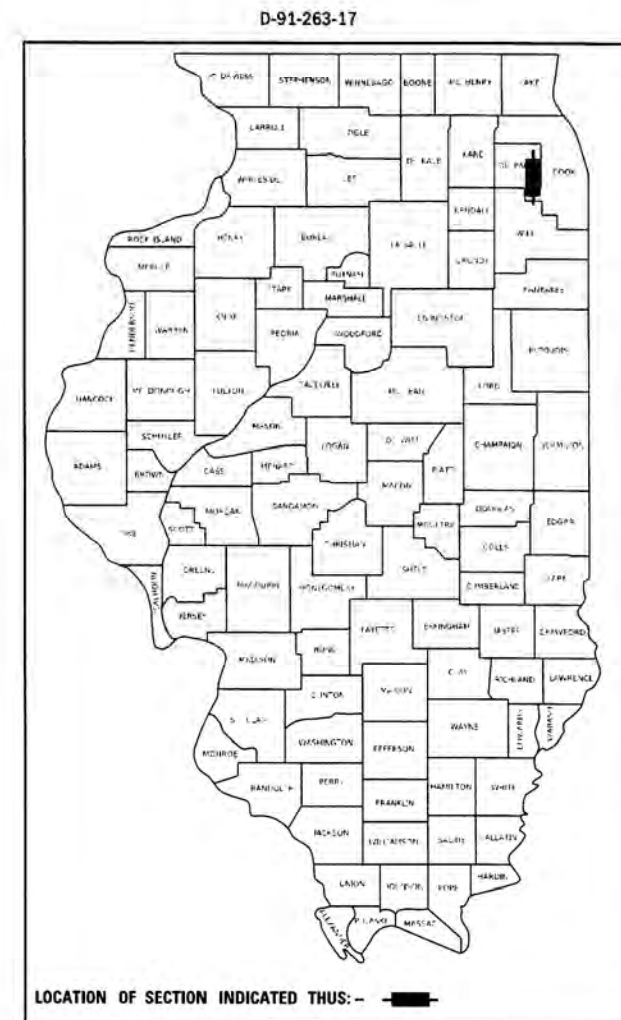
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

END IMPROVEMENT
3RD AVENUE



BEGIN IMPROVEMENT
IL 171 (ARCHER AVENUE)

GROSS LENGTH = 96,624 FT. = 18.3 MILES
NET LENGTH = 96,624 FT. = 18.3 MILES



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED: MARCH 17 2020
Audrey A. Danzig REGIONAL ENGINEER
May 8, 2020
Scott A. Elk ENGINEER OF DESIGN AND ENVIRONMENT
May 8, 2020
James J. [Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION '13

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PROJECT MANAGER: FAWAD AQUEEL, PE, PTOE (847) 705-4247
PROJECT ENGINEER: DAN WILGREEN, PE (847) 705-4240
CONTRACT NO. 62F20



INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS
3-4	SUMMARY OF QUANTITIES
5-6	SCHEDULE OF QUANTITIES
7-15	ROADSIDE SAFETY IMPROVEMENTS
16	SUGGESTED CONSTRUCTION STAGING
17-18	PAVEMENT MARKING PLANS
19-30	TRAFFIC SIGNAL PLANS
31-38	ROADWAY DETAILS

HIGHWAY STANDARDS

STD NO.	TITLE
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
630001-12	STEEL PLATE BEAM GUARDRAIL
630116	BACK SIDE PROTECTION OF GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-16	TRAFFIC BARRIER TERMINAL, TYPE 6
631033-08	TRAFFIC BARRIER TERMINAL, TYPE 6B
631046-04	TRAFFIC BARRIER TERMINAL, TYPE 10
635001-02	DELINEATORS
642001-02	SHOULDER RUMBLE STRIPS, 16 IN.
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSEWAY
701406-12	LANE CLOSURE, FREEWAY/EXPRESSEWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701446-10	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701451-05	RAMP CLOSURE FREEWAY/EXPRESSWAY
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

- ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTH MOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.
- THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES BID AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE TOPSOIL EXCAVATION QUANTITIES HAVE BEEN ADJUSTED TO ALLOW FOR 15% SHRINKAGE OF TOPSOIL BETWEEN REMOVAL AND REPLACEMENT.
- THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. CLASS 2A SHALL BE USED.
- MULCH, METHOD 2 SHALL BE APPLIED OVER ALL SEEDED AREAS.
- FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS.
- FOR SEGMENTS OF GUARDRAIL, ADJUSTMENT AND/OR REPLACEMENT WILL BE COMPILED THE SAME WORKING DAY.
- THE CONTRACTOR SHALL SUPPLY THE RESIDENT ENGINEER WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS FOR THE TYPE OF STEEL PLATE BEAM GUARDRAIL TERMINAL TYPE 1 SPECIAL (TANGENT) OR STEEL PLATE BEAM GUARDRAIL TERMINAL TYPE 1 SPECIAL (FLARED).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTING AND MAINTAINING AN ELECTRONIC LOG OF ALL STAKEOUT SURVEY THAT IS PERFORMED ON THE JOB, EITHER BY HIM/HER OR ANY SUB-CONTRACTOR PERFORMING THE STAKEOUT. UPON REQUEST, ALL LOGS SHALL BE SUBMITTED TO THE DEPARTMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK, BUT SHALL BE CONSIDERED INCLUDED IN THE COST FOR CONSTRUCTION LAYOUT.
- ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE LATEST EDITION.
- THE CONTRACTOR SHALL CONTACT J.U.L.I.E. AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.
- THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT 1 TRAFFIC CONTROL SUPERVISOR FOR ARTERIALS AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK.

COMMITMENTS:

NONE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS,
GENERAL NOTES, AND COMMITMENTS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	VARIES +	38	2
CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN909				

REV-SEP



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SP	CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITIES	90% FED	90% FED		
					10% STATE	10% STATE		
					0021 COOK COUNTY	0021 DUPAGE COUNTY		
	20200100	EARTH EXCAVATION	CU YD	119	0	119		
	48101202	AGGREGATE SHOULDERS, TYPE B	CU YD	119	0	119		
	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	600	0	600		
	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	5	0	5		
	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	6	0	6		
	63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	9	0	9		
	63100105	TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	3	0	3		
	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	41	0	41		
	63200310	GUARDRAIL REMOVAL	FOOT	2400	0	2400		
	63500105	DELINEATORS	EACH	1078	0	1078		
	64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	26760	0	26760		
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	119	0	119		
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	5	0	5		
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0	1		
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0	1		
*	66901006	REGULATED SUBSTANCES MONITORING	DAYS	5	0	5		
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	2	4		
	67100100	MOBILIZATION	L SUM	1	0.1	0.9		
	70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	0.1	0.9		

SP	CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITIES	90% FED	90% FED		
					10% STATE	10% STATE		
					0021 COOK COUNTY	0021 DUPAGE COUNTY		
	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.1	0.9		
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.1	0.9		
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	150	15	135		
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	7500	0	7500		
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	2500	0	2500		
	70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	15050	0	15050		
	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	37	0	37		
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	7190	0	7190		
*	78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	1340	0	1340		
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	3520	0	3520		
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1120	0	1120		
*	78008310	POLYUREA PAVEMENT MARKING TYPE II - LINE 4"	FOOT	870	0	870		
*	78008320	POLYUREA PAVEMENT MARKING TYPE II - LINE 5"	FOOT	240	0	240		
*	78008340	POLYUREA PAVEMENT MARKING TYPE II - LINE 8"	FOOT	430	0	430		
*	78008350	POLYUREA PAVEMENT MARKING TYPE II - LINE 12"	FOOT	340	0	340		
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	187	0	187		
	78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	112	0	112		
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	187	0	187		

* SPECIALTY ITEMS



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 IL ROUTE 83 - IL 171/107TH STREET TO THIRD AVENUE

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	VARIES +	38	3
CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN909				

REV-SEP

GUARDRAIL LABEL	63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	63100045 TRAFFIC BARRIER TERMINAL, TYPE 2	63100085 TRAFFIC BARRIER TERMINAL, TYPE 6	63100089 TRAFFIC BARRIER TERMINAL, TYPE 6B	63100105 TRAFFIC BARRIER TERMINAL, TYPE 10	63200310 GUARDRAIL REMOVAL	72501000 TERMINAL MARKER - DIRECT APPLIED	78200006 *GUARDRAIL REFLECTORS, TYPE B	20200100 EARTH EXCAVATION	48101202 AGGREGATE SHOULDERS, TYPE B	X6330900 VERTICAL ADJUSTMENT OF GUARDRAIL
	FOOT	EACH	EACH	EACH	EACH	EACH	FOOT	EACH	EACH	CUYD	CUYD	FOOT
NB-GR-006		1					47	1	2			25
NB-GR-008		1					47	1	2			25
NB-GR-009		1					47	1	2			25
NB-GR-011		1					47	1	2			25
NB-GR-018		1					47	1	2			25
NB-GR-019		1					47	1	2			25
NB-GR-020		1		1			91	1	2			50
NB-GR-024		1					47	1	2			25
NB-GR-025		1					47	1	2			25
NB-GR-027		1			1		91	1	2			50
NB-GR-028		1					47	1	2			25
NB-GR-030		1					47	1	2			25
NB-GR-032		1					47	1	2			25
M-GR-001					1		44		2			25
M-GR-002		1					47	1	2			25
NB-GR-035		1			1		91	1	2			50
NB-GR-037		1					47	1	2			25
NB-GR-038		1		1			91	1	2			50
NB-GR-039					1		44		2			25
NB-GR-041		1			1		91	1	2			50
NB-GR-042		1					47	1	2			25
NB-GR-043		1					47	1	2			25
NB-GR-045					1		44		2			25
NB-GR-048						1			2			25
NB-GR-049		1		1			91	1	2			50
NB-GR-050						1			2			25
NB-GR-051					1		44		2			25
NB-GR-053		1					47	1	2			25
SB-GR-001		1					47	1	2			25
SB-GR-003		1			1		91	1	2			50
SB-GR-004					1		44		2			25
SB-GR-006		1					47	1	2			25
SB-GR-010					1		44		2			25
SB-GR-012		1					47	1	2			25
SB-GR-013		1			1		91	1	2			50
SB-GR-015		1					47	1	2			25
SB-GR-018		1					47	1	2			25
SB-GR-019		1					47	1	2			25
SB-GR-020		1					47	1	2			25
SB-GR-021					1		44		2			25
SB-GR-023		1					47	1	2			25
SB-GR-027		1					47	1	2			25
SB-GR-028		1					47	1	2			25
SB-GR-029		1					47	1	2			25
SB-GR-030		1					47	1	2			25
SB-GR-033		1					47	1	2			25
NB-PRGR-01	63		1			1			4	10	10	
NB-PRGR-02	125	1	1						4	26	26	
SB-PRGR-01	138	1	1						4	28	28	
SB-PRGR-02	125	1	1						4	26	26	
SB-PRGR-03	150	1	1						4	29	29	
TOTAL	600	41	5	6	9	3	2400	37	112	119	119	1350

ALONG IL 83	64200116
	SHOULDER RUMBLE STRIPS, 16 INCH
	FOOT
	5400
I 55	21360
IL 56 AND IL 38	21360
TOTAL	26760

RAMP	63500105	
	DEL INEATORS	
	IL 83 NB TO 55TH ST	32
	55TH ST TO IL 83 NB	55
	IL 83 SB TO 55TH ST	86
	55TH ST TO IL 83 SB	63
	IL 83 NB TO IL 34	58
	IL 34 TO IL 83 NB	50
	IL 83 SB TO IL 34	40
	IL 34 ST TO IL 83 SB	52
	IL 83 NB TO IL 56 EB	42
	IL 56 EB TO IL 83 NB	55
	IL 83 SB TO IL 56 EB	64
	IL 83 SB TO IL 56 WB	32
	IL 38 EB TO IL 83 NB	58
IL 83 NB TO IL 38 WB	44	
IL 38 WB TO IL 83 NB	60	
IL 38 EB TO IL 83 SB	57	
IL 38 WB TO IL 83 SB	49	
IL 83 SB TO IL 38 WB	55	
IL 83 NB TO US 20	28	
US 20 TO IL 83 NB	32	
IL 83 SB TO US 20	28	
US 20 TO IL 83 SB	38	
TOTAL	1078	

88200510 TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE		
SHEET	INTERSECTION	TOTAL (EACH)
	107TH STREET / IL 171	17
	BLUFF ROAD	2
	91ST STREET	10
	CENTRAL AVENUE	12
	MIDWAY DRIVE	11
	75TH STREET	8
	72ND COURT	9
	67TH STREET	12
	63RD STREET	14
	55TH STREET RAMPS (NB IL 83)	4
	55TH STREET RAMPS (SB IL 83)	4
	OGDEN AVENUE - WEST RAMPS	7
	OGDEN AVENUE - EAST RAMPS	6
	31ST STREET - WEST RAMPS	3
	31ST STREET - EAST RAMPS	3
	22ND STREET	12
	HODGES ROAD/OAK BROOK CENTER	12
	16TH STREET	12
	RIVERSIDE DRIVE	10
	ST. CHARLES ROAD	12
	ELMHURST CROSSING	8
	QUARRY DRIVEWAY	6
	NORTH AVE (IL 64)	14
	US 20 - WEST RAMPS	5
	US 20 - EAST RAMPS	10
	TOTAL	223

89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT		
SHEET	INTERSECTION	TOTAL (EACH)
	107TH STREET / IL 171	1
	BLUFF ROAD	1
	91ST STREET	1
	CENTRAL AVENUE	1
	MIDWAY DRIVE	1
	75TH STREET	1
	72ND COURT	1
	67TH STREET	1
	63RD STREET	1
	55TH STREET RAMPS (NB IL 83)	1
	55TH STREET RAMPS (SB IL 83)	1
	OGDEN AVENUE - WEST RAMPS	1
	OGDEN AVENUE - EAST RAMPS	1
	31ST STREET - WEST RAMPS	1
	31ST STREET - EAST RAMPS	1
	22ND STREET	1
	HODGES ROAD/OAK BROOK CENTER	1
	16TH STREET	1
	RIVERSIDE DRIVE	1
	ST. CHARLES ROAD	1
	ELMHURST CROSSING	1
	QUARRY DRIVEWAY	1
	NORTH AVE (IL 64)	1
	US 20 - WEST RAMPS	1
	US 20 - EAST RAMPS	1
	TOTAL	25

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES IL ROUTE 83 - IL 171/107TH STREET TO THIRD AVENUE			
SCALE: 1"=20'	SHEET	OF	SHEETS
STA.	TO	STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	VARIES +	38	5
CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN909				

85000200 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION		
SHEET	INTERSECTION	TOTAL (EACH)
	107TH STREET / IL 171	1
	BLUFF ROAD	1
	91ST STREET	1
	CENTRAL AVENUE	1
	MIDWAY DRIVE	1
	75TH STREET	1
	72ND COURT	1
	67TH STREET	1
	63RD STREET	1
	55TH STREET RAMP (NB IL 83)	1
	55TH STREET RAMP (SB IL 83)	1
	OGDEN AVENUE - WEST RAMP	1
	OGDEN AVENUE - EAST RAMP	1
	31ST STREET - WEST RAMP	1
	31ST STREET - EAST RAMP	1
	22ND STREET	1
	HODGES ROAD/OAK BROOK CENTER	1
	16TH STREET	1
	RIVERSIDE DRIVE	1
	ST. CHARLES ROAD	1
	ELMHURST CROSSING	1
	QUARRY DRIVEWAY	1
	NORTH AVE (IL 64)	1
	US 20 - WEST RAMP	1
	US 20 - EAST RAMP	1
TOTAL		25

X0325134 WIRELESS INTERCONNECT (COMPLETE)		
SHEET	INTERSECTION	TOTAL (EACH)
	IL 83 - St. Charles to Riverside	1
TOTAL		1

Z0033046 RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2		
SHEET	DISCRPTION	TOTAL (EACH)
	RE-OPTIMIZATION FOR ADDING RIVERSIDE INTERSECTION TO EXISTING INTERCONNECT SYSTEM	1
TOTAL		1

78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4"		
SHEET	LOCATION ALONG IL 83	TOTAL (FOOT)
3	IL RTE 83 SOUTHBOUND LEFT N OF I-290	2230
3	IL RTE 83 SOUTHBOUND RIGHT N OF I-290	1810
3	IL RTE 83 SOUTHBOUND RIGHT S OF I-290 GORE	450
1	IL RTE 83 SOUTHBOUND LEFT N OF ROOSEVELT	310
1	IL RTE 83 SOUTHBOUND RIGHT N OF ROOSEVELT	290
1	IL RTE 83 SOUTHBOUND RIGHT S OF ROOSEVELT	230
1	IL RTE 83 SOUTHBOUND LEFT BTW ROOSEVELT AND BUTTERFIELD	1180
1	IL RTE 83 SOUTHBOUND RIGHT N OF BUTTERFIELD	170
1	IL RTE 83 SOUTHBOUND LEFT S OF BUTTERFIELD	280
1	IL RTE 83 SOUTHBOUND RIGHT S OF BUTTERFIELD	240
TOTAL		7190

78000300 THERMOPLASTIC PAVEMENT MARKING - LINE 5"		
SHEET	LOCATION ALONG IL 83	TOTAL (FOOT)
3	IL RTE 83 SOUTHBOUND 30' SKIP - 10' DASH N OF I-290	560
1	IL RTE 83 SOUTHBOUND 30' SKIP - 10' DASH N OF ROOSEVELT	80
1	IL RTE 83 SOUTHBOUND 30' SKIP - 10' DASH N OF ROOSEVELT	80
1	IL RTE 83 SOUTHBOUND 30' SKIP - 10' DASH BTW ROOSEVELT AND BUTTERFIELD	300
1	IL RTE 83 SOUTHBOUND 30' SKIP - 10' DASH BTW ROOSEVELT AND BUTTERFIELD	300
1	IL RTE 83 SOUTHBOUND 30' SKIP - 10' DASH S OF BUTTERFIELD	70
1	IL RTE 83 SOUTHBOUND 30' SKIP - 10' DASH S OF BUTTERFIELD	70
TOTAL		1340

78000400 THERMOPLASTIC PAVEMENT MARKING - LINE 6"		
SHEET	LOCATION ALONG IL 83	TOTAL (FOOT)
	IL RTE 83 SOUTHBOUND 9' SKIP - 3' DASH	378
TOTAL		378

78000500 THERMOPLASTIC PAVEMENT MARKING - LINE 8"		
SHEET	LOCATION ALONG IL 83	TOTAL (FOOT)
3	IL RTE 83 SOUTHBOUND 9' SKIP - 3' DASH N OF I-290	300
3	IL RTE 83 SOUTHBOUND RIGHT @ I-290 GORE RT	620
3	IL RTE 83 SOUTHBOUND RIGHT @ I-290 GORE LT	610
1	IL RTE 83 SOUTHBOUND RIGHT @ ROOSEVELT RD N GORE RT	300
1	IL RTE 83 SOUTHBOUND RIGHT @ ROOSEVELT RD N GORE LT	300
1	IL RTE 83 SOUTHBOUND RIGHT @ ROOSEVELT RD S GORE RT	260
1	IL RTE 83 SOUTHBOUND RIGHT @ ROOSEVELT RD S GORE LT	270
1	IL RTE 83 SOUTHBOUND RIGHT BTW ROOSEVELT AND BUTTERFIELD	810
1	IL RTE 83 SOUTHBOUND 9' SKIP - 3' DASH BTW ROOSEVELT AND BUTTERFIELD	300
1	IL RTE 83 SOUTHBOUND RIGHT @ BUTTERFIELD RD N GORE RT	80
1	IL RTE 83 SOUTHBOUND RIGHT @ BUTTERFIELD RD N GORE LT	80
1	IL RTE 83 SOUTHBOUND RIGHT @ BUTTERFIELD RD S GORE RT	250
1	IL RTE 83 SOUTHBOUND RIGHT @ BUTTERFIELD RD S GORE LT	260
TOTAL		3520

78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"		
SHEET	LOCATION ALONG IL 83	TOTAL (FOOT)
3	IL RTE 83 SOUTHBOUND RIGHT @ I-290 GORE	340
3	IL RTE 83 SOUTHBOUND RIGHT SHOULDER DIAGONALS N OF I-290 RAMP	170
3	IL RTE 83 SOUTHBOUND RIGHT SHOULDER DIAGONALS S OF I-290 RAMP	50
1	IL RTE 83 SOUTHBOUND RIGHT @ ROOSEVELT RD N GORE	70
1	IL RTE 83 SOUTHBOUND RIGHT @ ROOSEVELT RD S GORE	30
1	IL RTE 83 SOUTHBOUND RIGHT @ BUTTERFIELD RD N GORE	50
1	IL RTE 83 SOUTHBOUND RIGHT @ BUTTERFIELD RD S GORE	220
1	IL RTE 83 SOUTHBOUND LEFT SHOULDER DIAGONALS N OF ROOSEVELT	20
1	IL RTE 83 SOUTHBOUND LEFT SHOULDER DIAGONALS BETWEEN ROOSEVELT AND BUTTERFIELD	150
1	IL RTE 83 SOUTHBOUND LEFT SHOULDER DIAGONALS S OF BUTTERFIELD	20
TOTAL		1120

78008310 POLYUREA PAVEMENT MARKING TYPE II - LINE 4"		
SHEET	LOCATION ALONG IL 83	TOTAL (FOOT)
1	IL RTE 83 SB LEFT AT ROOSEVELT	220
1	IL RTE 83 SB RIGHT AT ROOSEVELT	220
1	IL RTE 83 SB LEFT AT BUTTERFIELD	210
1	IL RTE 83 SB RIGHT AT BUTTERFIELD	220
TOTAL		870

78008320 POLYUREA PAVEMENT MARKING TYPE II - LINE 5"		
SHEET	LOCATION ALONG IL 83	TOTAL (FOOT)
1	IL RTE 83 SB LEFT AT ROOSEVELT 30' SKIP - 10' DASH	60
1	IL RTE 83 SB RIGHT AT ROOSEVELT 30' SKIP - 10' DASH	60
1	IL RTE 83 SB LEFT AT BUTTERFIELD 30' SKIP - 10' DASH	60
1	IL RTE 83 SB RIGHT AT BUTTERFIELD 30' SKIP - 10' DASH	60
TOTAL		240

78008340 POLYUREA PAVEMENT MARKING TYPE II - LINE 8"		
SHEET	LOCATION ALONG IL 83	TOTAL (FOOT)
1	IL RTE 83 SB RIGHT @ ROOSEVELT SKIP/DASH	60
1	IL RTE 83 SB RIGHT @ BUTTERFIELD SKIP/DASH	30
1	IL RTE 83 SB RIGHT @ BUTTERFIELD GORE LT	110
1	IL RTE 83 SB RIGHT @ BUTTERFIELD GORE RT	120
TOTAL		320

78008350 POLYUREA PAVEMENT MARKING TYPE II - LINE 12"		
SHEET	LOCATION ALONG IL 83	TOTAL (FOOT)
1	IL RTE 83 SB LEFT @ ROOSEVELT SHOULDER DIAGONALS	10
1	IL RTE 83 SB LEFT @ BUTTERFIELD SHOULDER DIAGONALS	20
1	IL RTE 83 SB RIGHT @ BUTTERFIELD GORE	30
TOTAL		50

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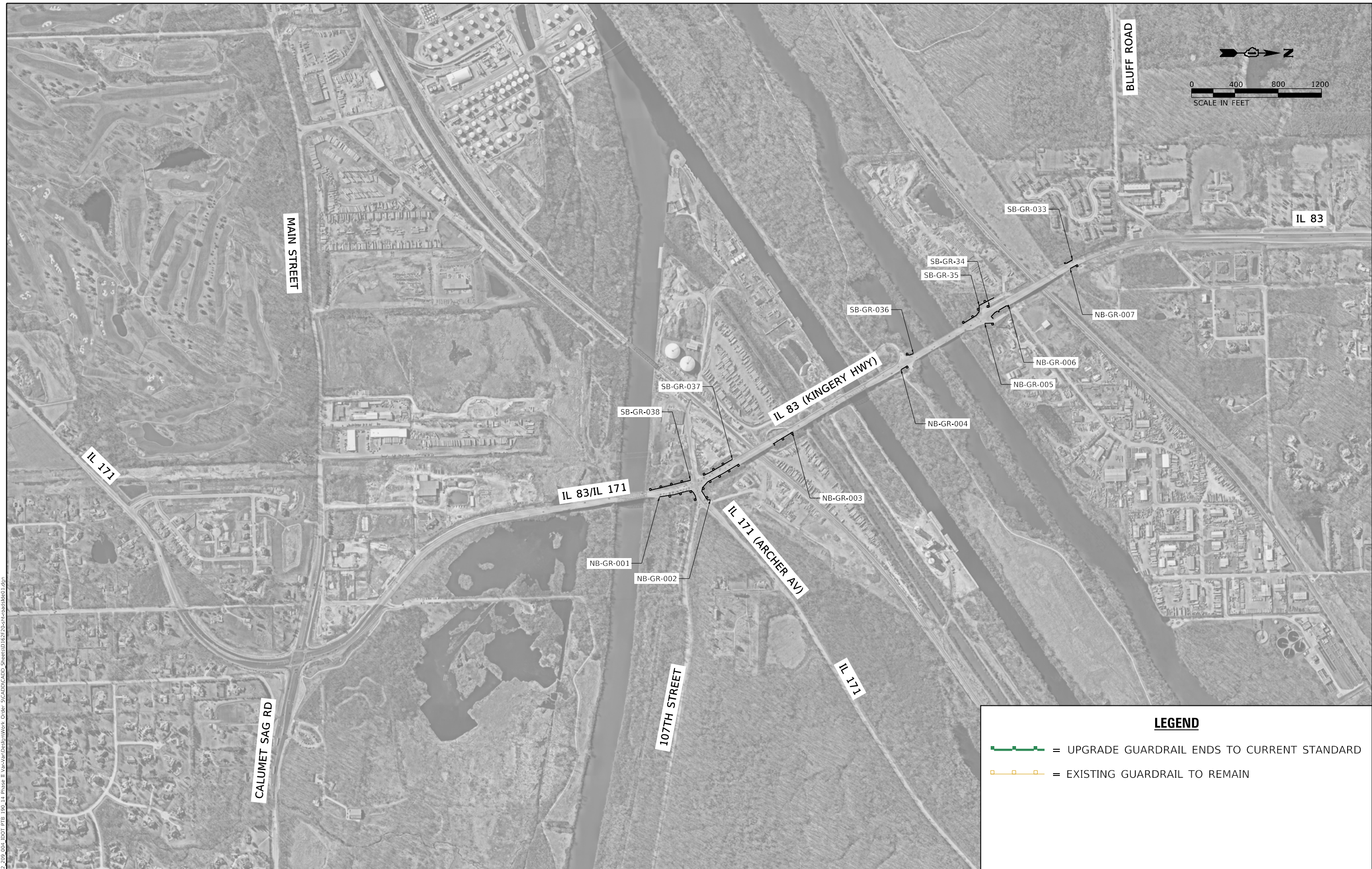
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
 IL ROUTE 83 - IL 171/107TH STREET TO THIRD AVENUE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	VARIES +	38	6
CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN(909)				



USER: abennett
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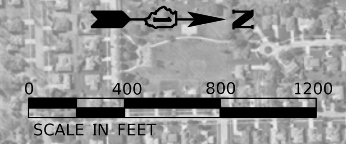


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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ROADSIDE SAFETY IMPROVEMENTS IL 83 (KINGERY HIGHWAY)				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	VARIES +	38	7
CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN(909)				



LEGEND

- = INSTALL RUMBLE STRIPS (LEFT SIDE)
- = INSTALL RUMBLE STRIPS (RIGHT SIDE)
- = UPGRADE GUARDRAIL ENDS TO CURRENT STANDARD
- = EXISTING GUARDRAIL TO REMAIN

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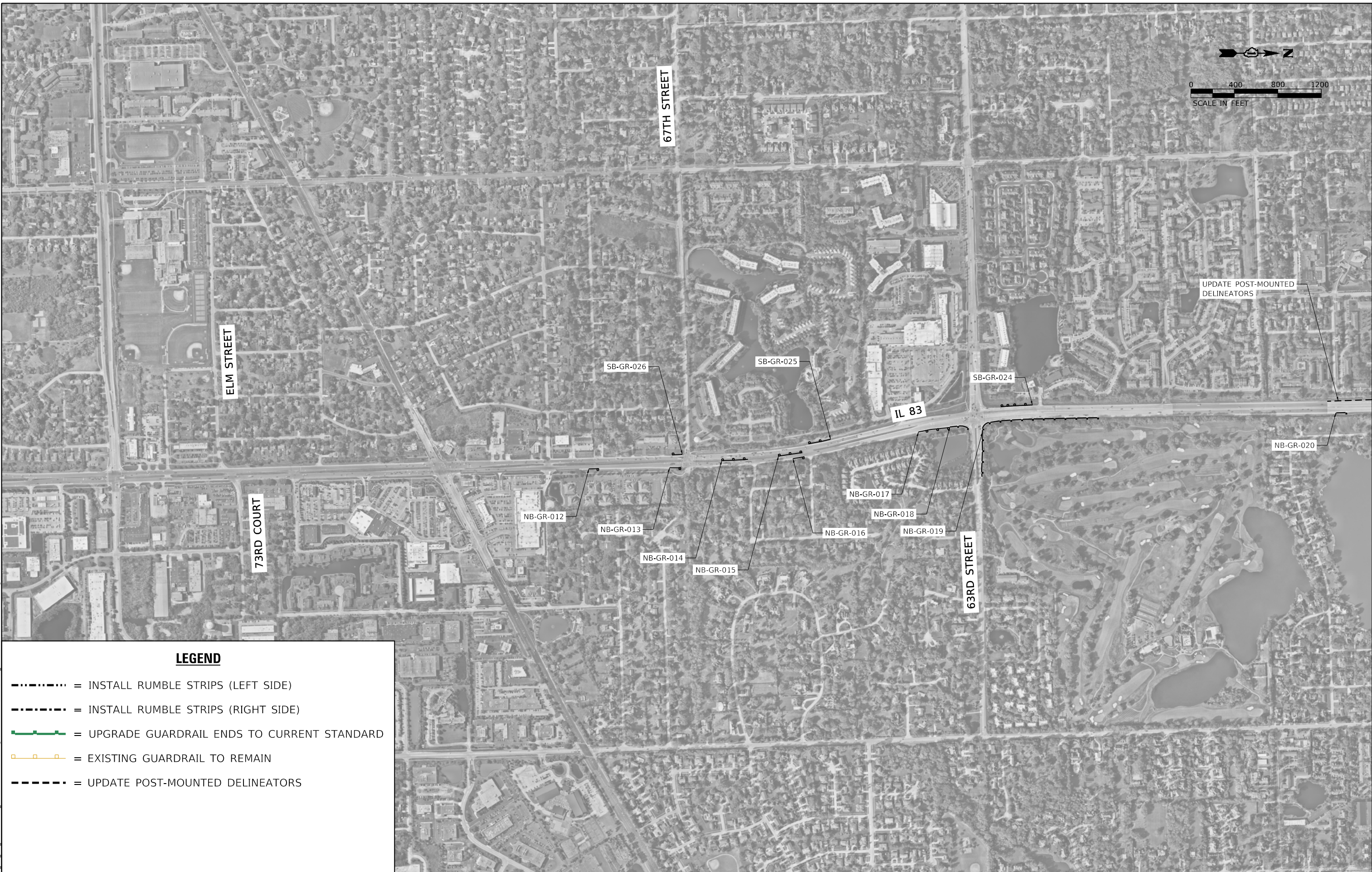
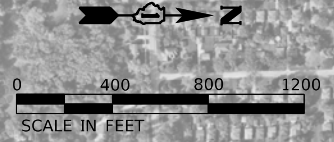
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADSIDE SAFETY IMPROVEMENTS
IL 83 (KINGERY HIGHWAY)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	VARIES +	38	8
CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN909				



LEGEND

- = INSTALL RUMBLE STRIPS (LEFT SIDE)
- = INSTALL RUMBLE STRIPS (RIGHT SIDE)
- = UPGRADE GUARDRAIL ENDS TO CURRENT STANDARD
- = EXISTING GUARDRAIL TO REMAIN
- = UPDATE POST-MOUNTED DELINEATORS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADSIDE SAFETY IMPROVEMENTS
IL 83 (KINGERY HIGHWAY)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	VARIES +	38	9
CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN(909)				



LEGEND				
	=	INSTALL RUMBLE STRIPS (LEFT SIDE)		
	=	INSTALL RUMBLE STRIPS (RIGHT SIDE)		
	=	UPGRADE GUARDRAIL ENDS TO CURRENT STANDARD		
	=	EXISTING GUARDRAIL TO REMAIN		
	=	UPDATE POST-MOUNTED DELINEATORS		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADSIDE SAFETY IMPROVEMENTS
IL 83 (KINGERY HIGHWAY)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	VARIES +	38	10
CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN(909)				



NOTE
TOLLWAY PERMIT IS REQUIRED BEFORE WORK AROUND OVER I-88 CAN BEGIN

LEGEND

- = INSTALL RUMBLE STRIPS (LEFT SIDE)
- = INSTALL RUMBLE STRIPS (RIGHT SIDE)
- = UPGRADE GUARDRAIL ENDS TO CURRENT STANDARD
- = EXISTING GUARDRAIL TO REMAIN
- = UPDATE POST-MOUNTED DELINEATORS

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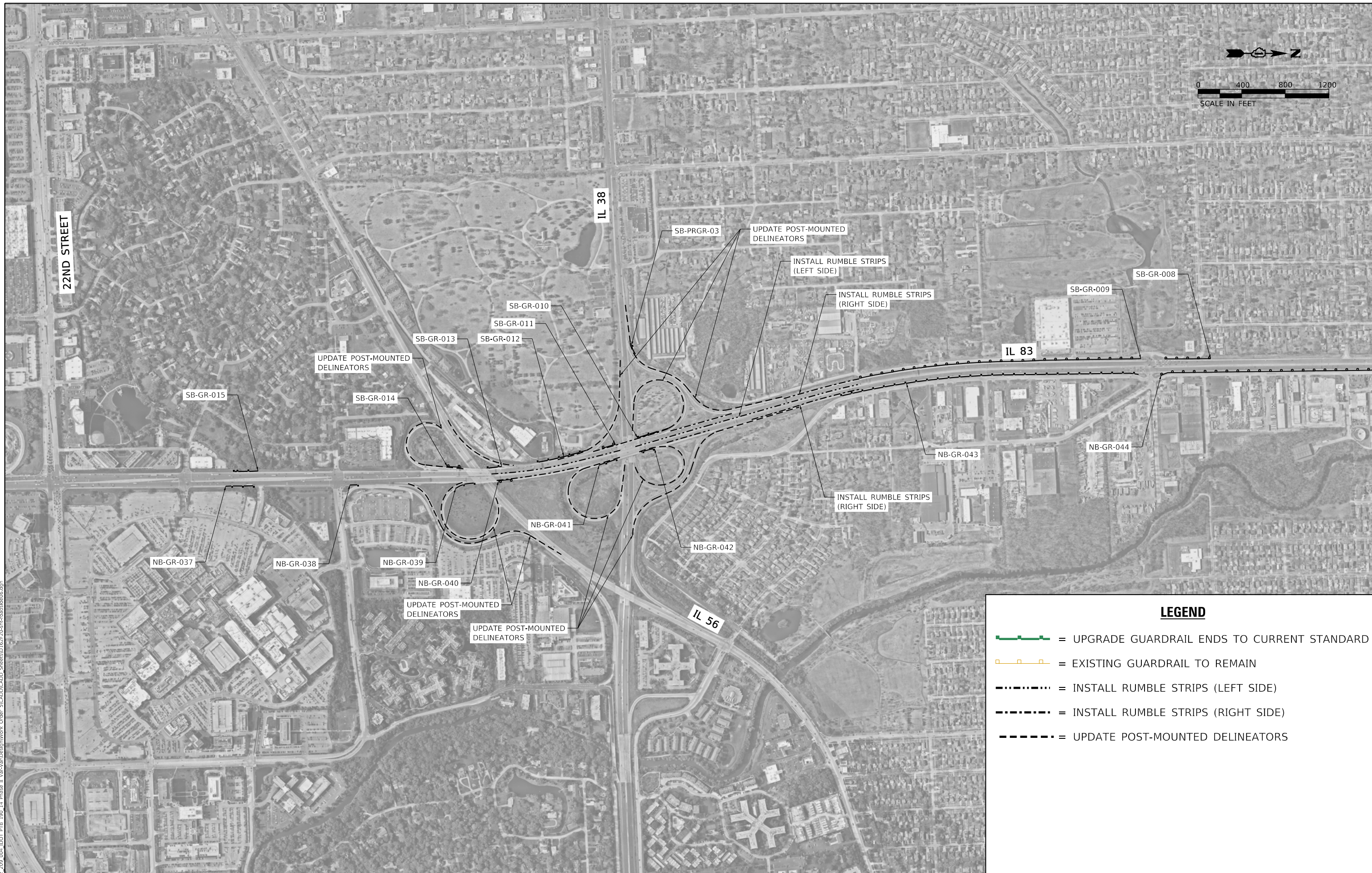
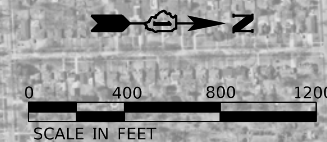
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADSIDE SAFETY IMPROVEMENTS
IL 83 (KINGERY HIGHWAY)**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	VARIES +	38	11
CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN909				



LEGEND

- = UPGRADE GUARDRAIL ENDS TO CURRENT STANDARD
- = EXISTING GUARDRAIL TO REMAIN
- = INSTALL RUMBLE STRIPS (LEFT SIDE)
- = INSTALL RUMBLE STRIPS (RIGHT SIDE)
- = UPDATE POST-MOUNTED DELINEATORS

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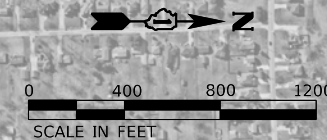
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADSIDE SAFETY IMPROVEMENTS
IL 83 (KINGERY HIGHWAY)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN(909)				



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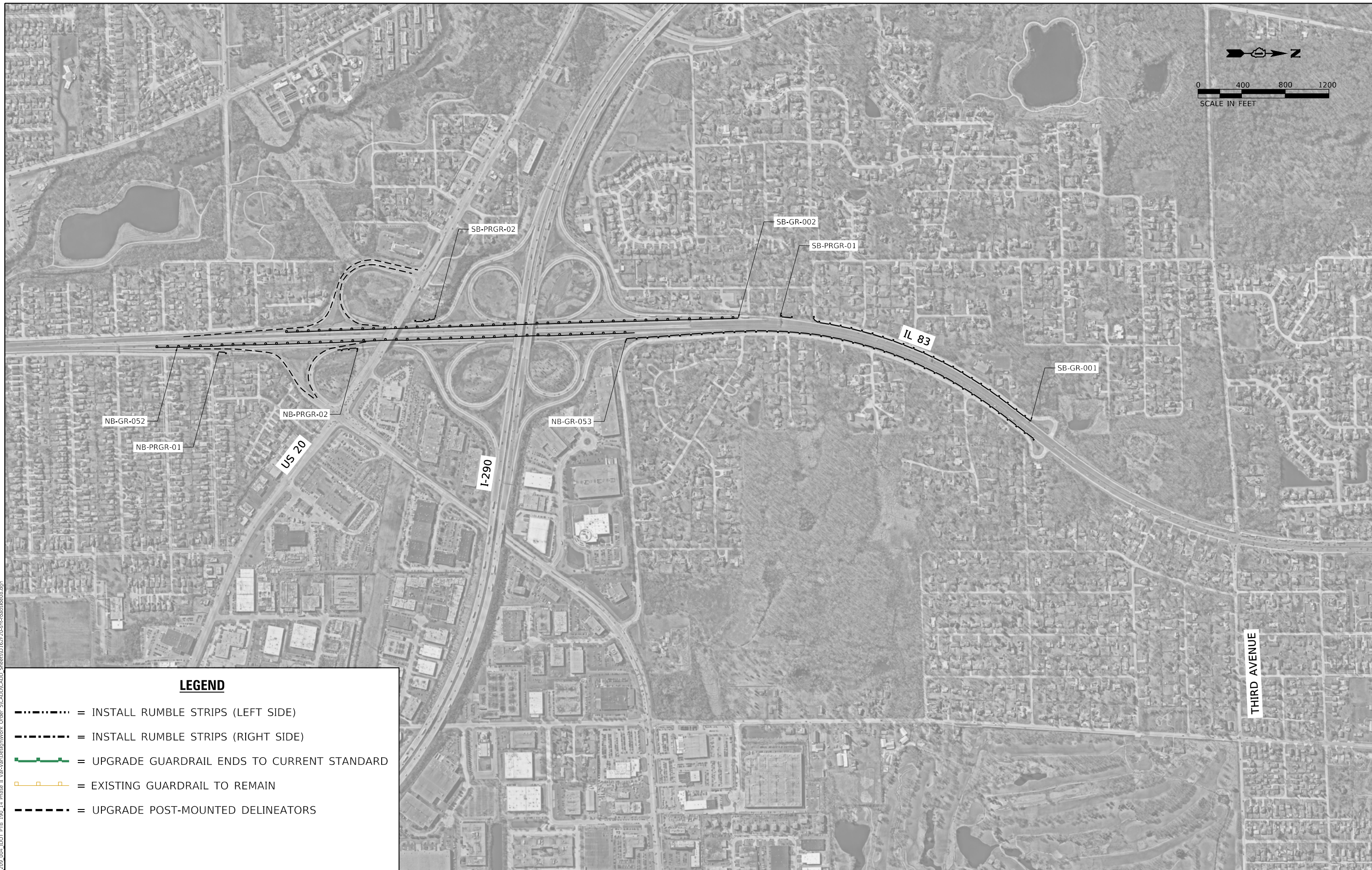
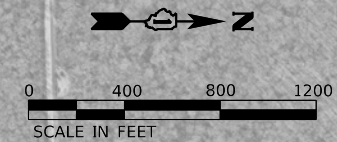
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADSIDE SAFETY IMPROVEMENTS
IL 83 (KINGERY HIGHWAY)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	VARIES +	38	13
CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN909				

SCALE: SHEET OF SHEETS STA. TO STA.



LEGEND

- = INSTALL RUMBLE STRIPS (LEFT SIDE)
- = INSTALL RUMBLE STRIPS (RIGHT SIDE)
- = UPGRADE GUARDRAIL ENDS TO CURRENT STANDARD
- = EXISTING GUARDRAIL TO REMAIN
- = UPGRADE POST-MOUNTED DELINEATORS

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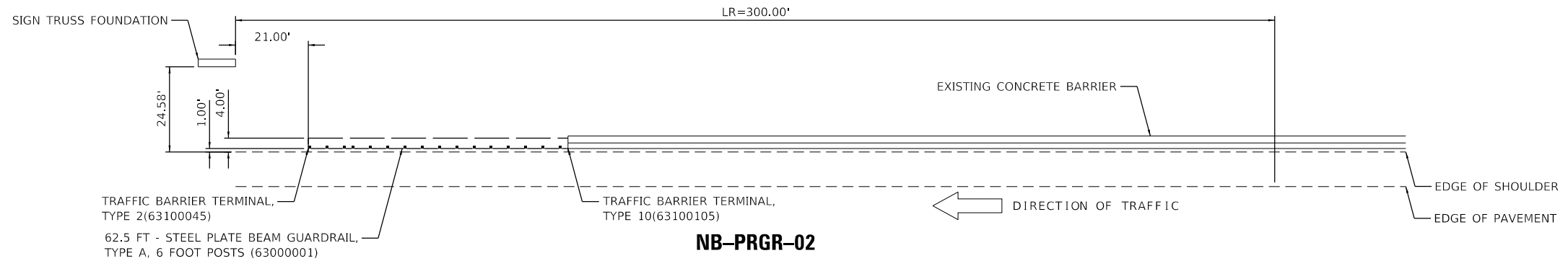
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADSIDE SAFETY IMPROVEMENTS
IL 83 (KINGERY HIGHWAY)**

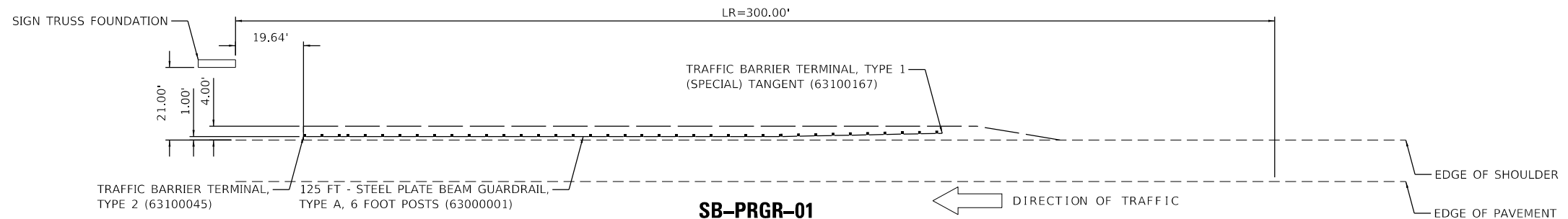
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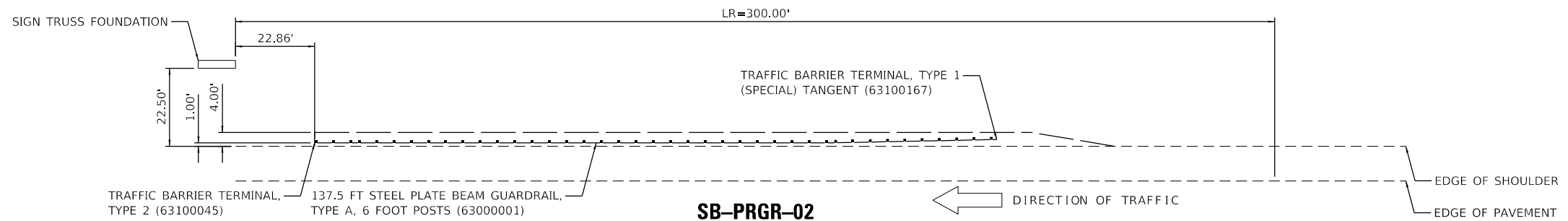
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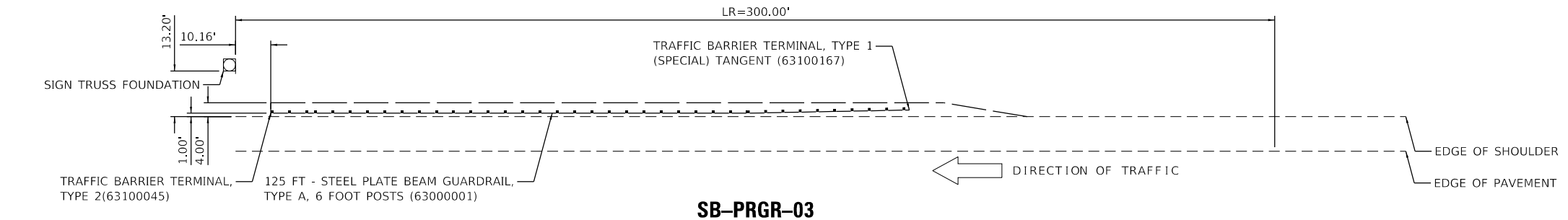
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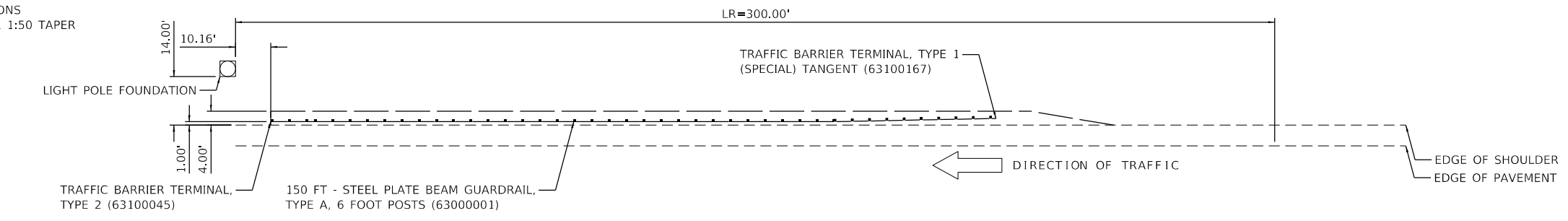
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SB-PRGR-02



SB-PRGR-03



NOTE:

- 1. SEE ROADWAY PLANS FOR GUARDRAIL LOCATIONS
- 2. TYPE 1 TERMAILS SHALL BE INSTALLED WITH A 1:50 TAPER

USER: abcmest
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GUARDRAIL LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	VARIES +	38	15
CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN909				

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. TRAFFIC CONDITIONS, CRASHES, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATIONS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. COMPLIANCE WITH THIS REQUIREMENT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE OF THE MAINTENANCE OF TRAFFIC ITEM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
2. THE CONTRACTOR IS DIRECTED TO THE FACT THAT OTHER SEPARATE CONTRACTS ARE, OR MAY BE, IN FORCE THAT INTERSECT THE LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL COOPERATE WITH THE OTHER CONTRACTORS IN THE PHASING AND PERFORMANCE OF THIS WORK SO AS NOT TO DELAY, INTERRUPT, OR HINDER THE PROGRESS OR COMPLETION OF THE WORK BEING PERFORMED BY OTHER CONTRACTORS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR COMPLIANCE WITH THE ABOVE REQUIREMENTS, NOR FOR ANY DELAYS OR INCONVENIENCES RESULTING FROM THE ACTIVITIES OF OTHER CONTRACTORS. SHOULD A CONFLICT ARISE BETWEEN THE CONTRACTORS WITH RESPECT TO SEQUENCE OF CONSTRUCTION OR MAINTENANCE OF TRAFFIC REQUIREMENTS, SAID CONFLICTS SHALL BE RESOLVED BY, OR AT THE DIRECTION OF THE ENGINEER.
3. THE MAINTENANCE OF TRAFFIC PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. THE CONTRACTOR MAY MODIFY THE MAINTENANCE OF TRAFFIC PLANS TO MEET CONSTRUCTION NEEDS, BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. THE ENGINEER SHALL BE INFORMED IN WRITING A MINIMUM OF 48 HOURS IN ADVANCE OF ANY CHANGE TO THE MAINTENANCE OF TRAFFIC PLANS.
4. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY OR EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE STAGING. REMOVAL OF PAVEMENT MARKING TAPE WILL BE PAID FOR AS "TEMPORARY PAVEMENT MARKING REMOVAL" (X7030005). REMOVAL OF PAVEMENT MARKINGS ON PERMANENT PAVEMENT WILL BE PAID FOR AS "PAVEMENT MARKING - WATER BLASTING" (X0327980). REMOVAL OF ALL OTHER PAVEMENT MARKINGS WILL BE PAID FOR AS "PAVEMENT MARKING REMOVAL" (78300100).
5. ALL TRAFFIC CONTROL DEVICES INCLUDING, BUT NOT LIMITED TO DRUMS, VERTICAL PANELS, AND BARRICADES IMMEDIATELY ADJACENT TO THE EDGE OF TRAVELED WAY SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS.
6. ALL SIGN ASSEMBLIES SHALL BE CERTIFIED BY THE CONTRACTOR AS MEETING THE APPLICABLE REQUIREMENTS OF NCHRP REPORT 350, TEST LEVEL 3 AND SHALL BE APPROVED BY THE ENGINEER.
7. THE CONTRACTOR SHALL REMOVE OR COVER ALL EXISTING SIGNS THAT CONFLICT WITH OR DO NOT APPLY TO THE REVISED TRAFFIC PATTERNS AND SHALL RESTORE THE SIGNS AT THE END OF CONSTRUCTION AS DIRECTED BY THE ENGINEER. COMPLIANCE WITH THIS REQUIREMENT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE OF THE MAINTENANCE OF TRAFFIC ITEM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
8. THE CONTRACTOR SHALL PROVIDE 48 HOURS ADVANCE NOTICE TO THE ENGINEER OF ANY CONSTRUCTION WORK THAT MAY IMPACT ANY ROADWAY LIGHTING.
9. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ANY EXISTING SIGNS REMOVED, BUT NOT RELOCATED, FROM THE PROJECT. THE CONTRACTOR SHALL PROPERLY STORE RELOCATED SIGNS AS APPROVED BY THE ENGINEER UNTIL THEY ARE PROPERLY RE-ERECTED.
10. THE FOLLOWING IS A LIST OF MAINTENANCE OF TRAFFIC ASSOCIATED PAY ITEMS FOR WHICH NOMINAL OR ESTIMATED QUANTITIES HAVE BEEN PROVIDED. THE CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION FROM THE ENGINEER PRIOR TO USE AND PAYMENT FOR THESE ITEMS:

*PAVEMENT MARKING TAPE, TYPE IV 4"
 *CHANGEABLE MESSAGE SIGN

MAINTENANCE OF TRAFFIC STAGING DESCRIPTION

STAGE 1

CONSTRUCTION:

SAFETY IMPROVEMENTS ALONG IL 83 FROM 107 TH STREET / IL 171 TO THIRD AVE.

TRAFFIC:

MAINTAIN EXISTING LANE CONFIGURATION WITH DAYTIME CLOSURES UTILIZING FLAGGERS

IL 83 NB OUTSIDE LANE/SHOULDER
 IL 83 SB OUTSIDE LANE/SHOULDER

TYPE II BARRICADES WILL BE USED TO SEPARATE TRAFFIC FROM THE WORK ZONE.
 RAMP CLOSURE WITH DETOURS APPROVED BY THE ENGINEER IN ADVANCE OF THE RAMP CLOSURE MAY BE USED. RAMP CLOSURES WITH DETOURS MAY ONLY BE DURING OFF-PEAK HOURS.

APPLICABLE DISTRICT ONE DETAILS AND IDOT HIGHWAY STANDARD DRAWINGS:

701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSEWAY
701406-12	LANE CLOSURE, FREEWAY/EXPRESSEWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS \geq 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS \geq 45 MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS \geq 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS \geq 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS \leq 40 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701446-10	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701451-05	RAMP CLOSURE FREEWAY/EXPRESSWAY
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES

USER: abcmest
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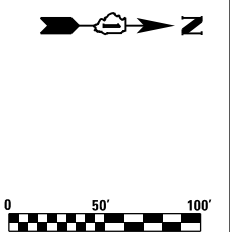
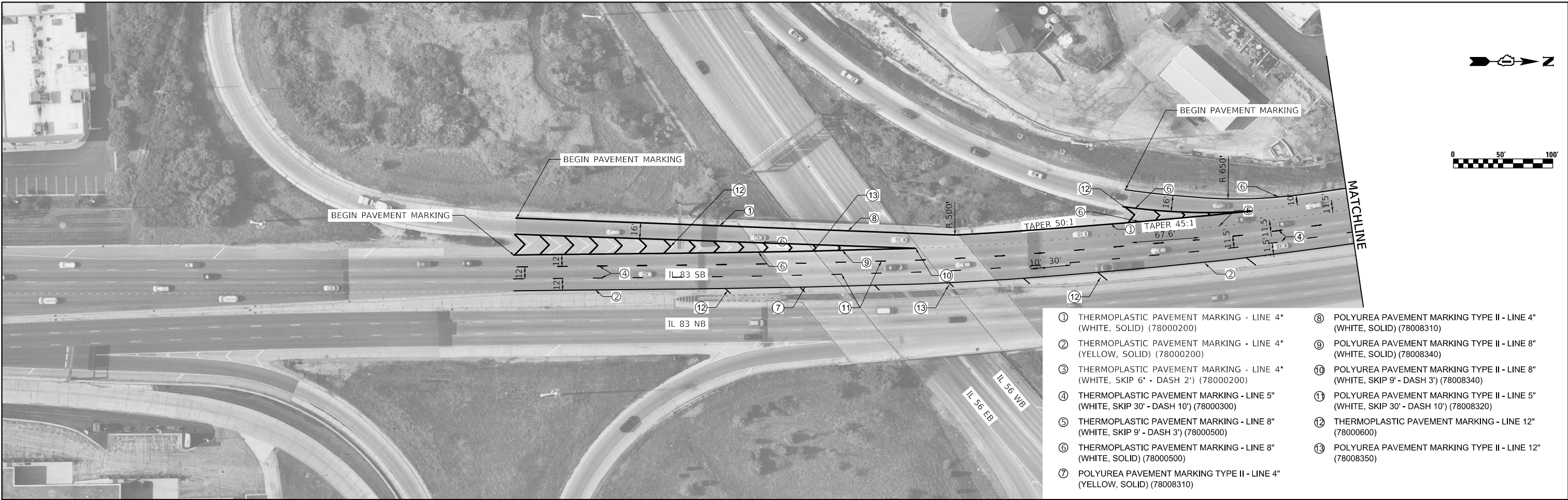
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

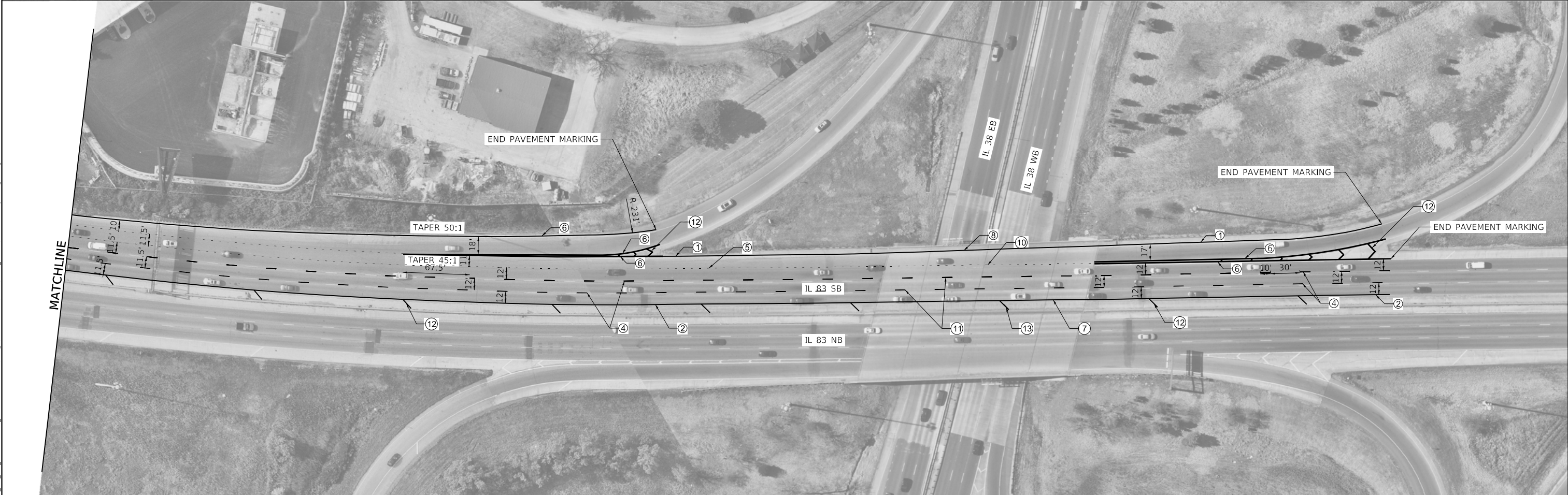
**SUGGESTED MAINTENANCE OF TRAFFIC
 GENERAL NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	VARIES +	38	16
				CONTRACT NO. 62F20
				ILLINOIS FED. AID PROJECT HSIP-ROMN909



- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE, SOLID) (78000200)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW, SOLID) (78000200)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE, SKIP 6' - DASH 2') (78000200)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 5" (WHITE, SKIP 30' - DASH 10') (78000300)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE, SKIP 9' - DASH 3') (78000500)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE, SOLID) (78000500)
- ⑦ POLYUREA PAVEMENT MARKING TYPE II - LINE 4" (YELLOW, SOLID) (78008310)
- ⑧ POLYUREA PAVEMENT MARKING TYPE II - LINE 4" (WHITE, SOLID) (78008310)
- ⑨ POLYUREA PAVEMENT MARKING TYPE II - LINE 8" (WHITE, SOLID) (78008340)
- ⑩ POLYUREA PAVEMENT MARKING TYPE II - LINE 8" (WHITE, SKIP 9' - DASH 3') (78008340)
- ⑪ POLYUREA PAVEMENT MARKING TYPE II - LINE 5" (WHITE, SKIP 30' - DASH 10') (78008320)
- ⑫ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600)
- ⑬ POLYUREA PAVEMENT MARKING TYPE II - LINE 12" (78008350)



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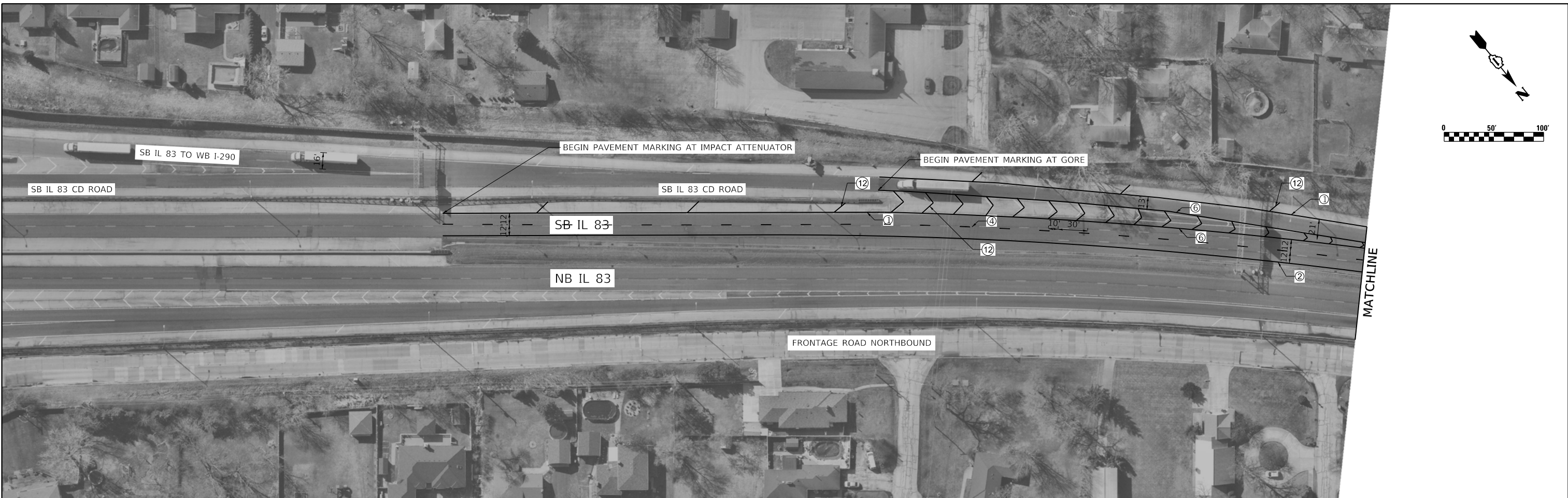
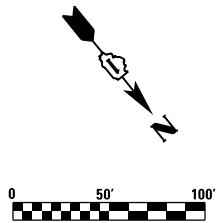
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN
SOUTHBOUND IL 83 (KINGERY HIGHWAY)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	VARIES +	38	17
CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN(909)				



- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE, SOLID) (78000200)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW, SOLID) (78000200)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE, SKIP 6' - DASH 2') (78000200)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 5" (WHITE, SKIP 30' - DASH 10') (78000300)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE, SKIP 9' - DASH 3') (78000500)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE, SOLID) (78000500)
- ⑦ POLYUREA PAVEMENT MARKING TYPE II - LINE 4" (YELLOW, SOLID) (78008310)
- ⑧ POLYUREA PAVEMENT MARKING TYPE II - LINE 4" (WHITE, SOLID) (78008310)
- ⑨ POLYUREA PAVEMENT MARKING TYPE II - LINE 8" (WHITE, SOLID) (78008340)
- ⑩ POLYUREA PAVEMENT MARKING TYPE II - LINE 8" (WHITE, SKIP 9' - DASH 3') (78008340)
- ⑪ POLYUREA PAVEMENT MARKING TYPE II - LINE 5" (WHITE, SKIP 30' - DASH 10') (78008320)
- ⑫ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600)
- ⑬ POLYUREA PAVEMENT MARKING TYPE II - LINE 12" (78008350)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
SB IL 83 AT I-290

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 2017-024I	COUNTY VARIES +	TOTAL SHEETS 38	SHEET NO. 18
CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN(909)				

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

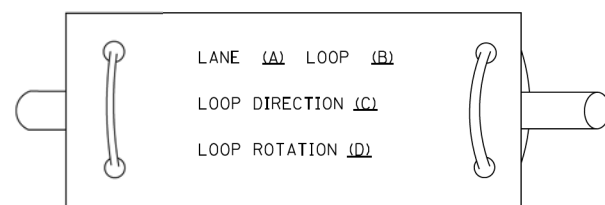
TS SHT NO. 1

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	PLOT DATE = 9/29/2016	CHECKED - LP	REVISED -			CONTRACT NO. 62F20						
		DATE - 9/29/2016	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-ROMN909						

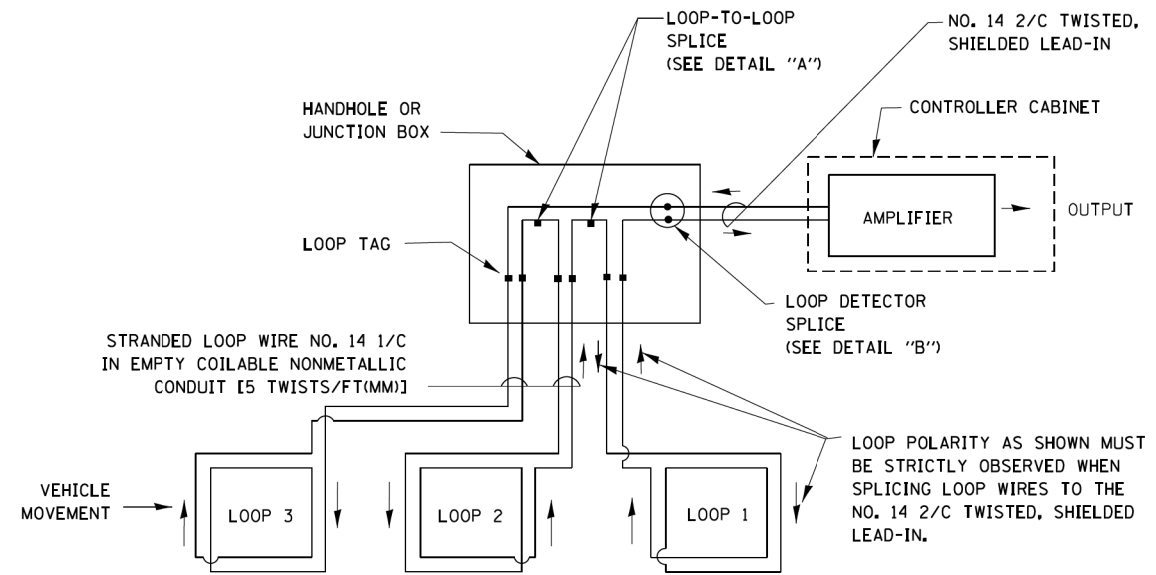
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

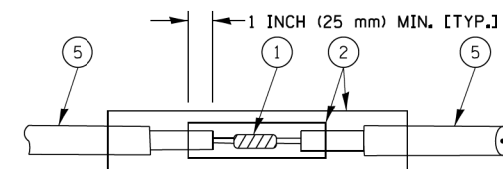


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

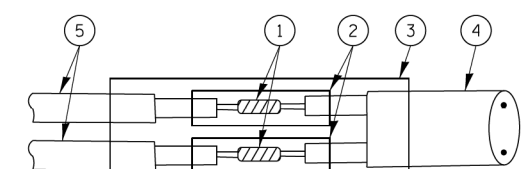


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

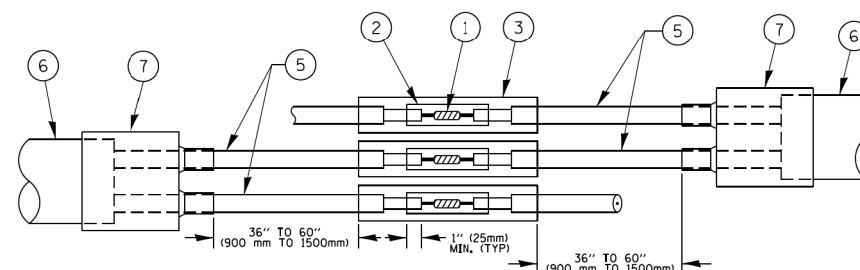


DETAIL "A"
LOOP-TO-LOOP SPLICE

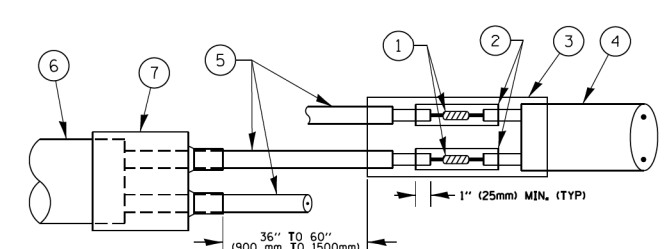


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

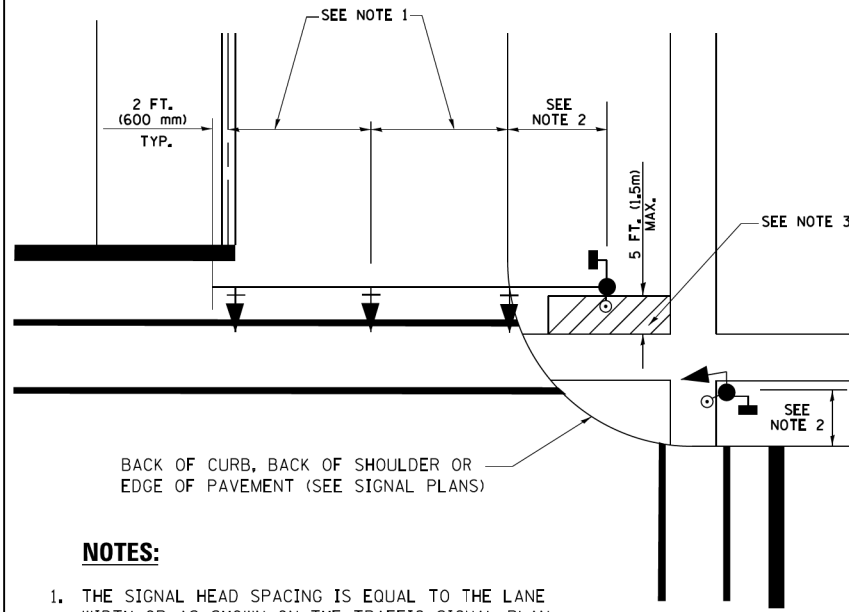
LOOP DETECTOR SPLICE

- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- ⑥ PREFORMED LOOP
- ⑦ XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

TS SHT NO. 2

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE. 344	SECTION 2017-024I	COUNTY DU PAGE	TOTAL SHEETS 38	SHEET NO. 20
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		DATE - 10-28-09	REVISED -									

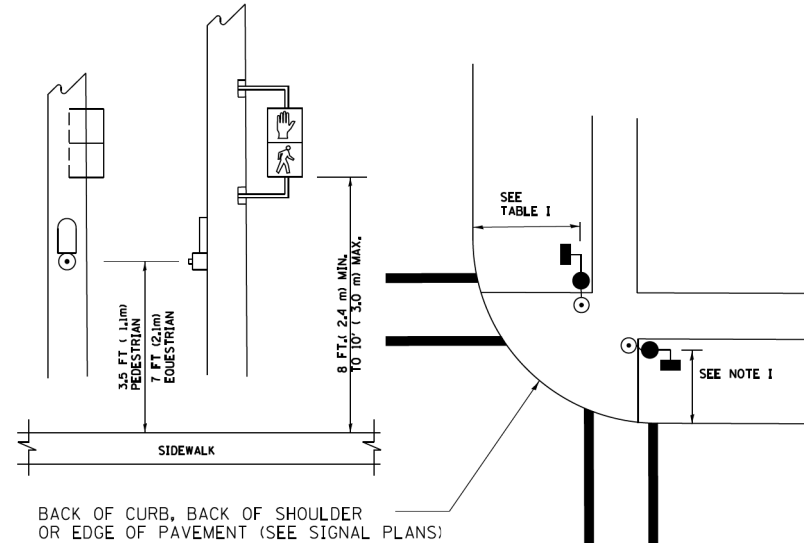
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

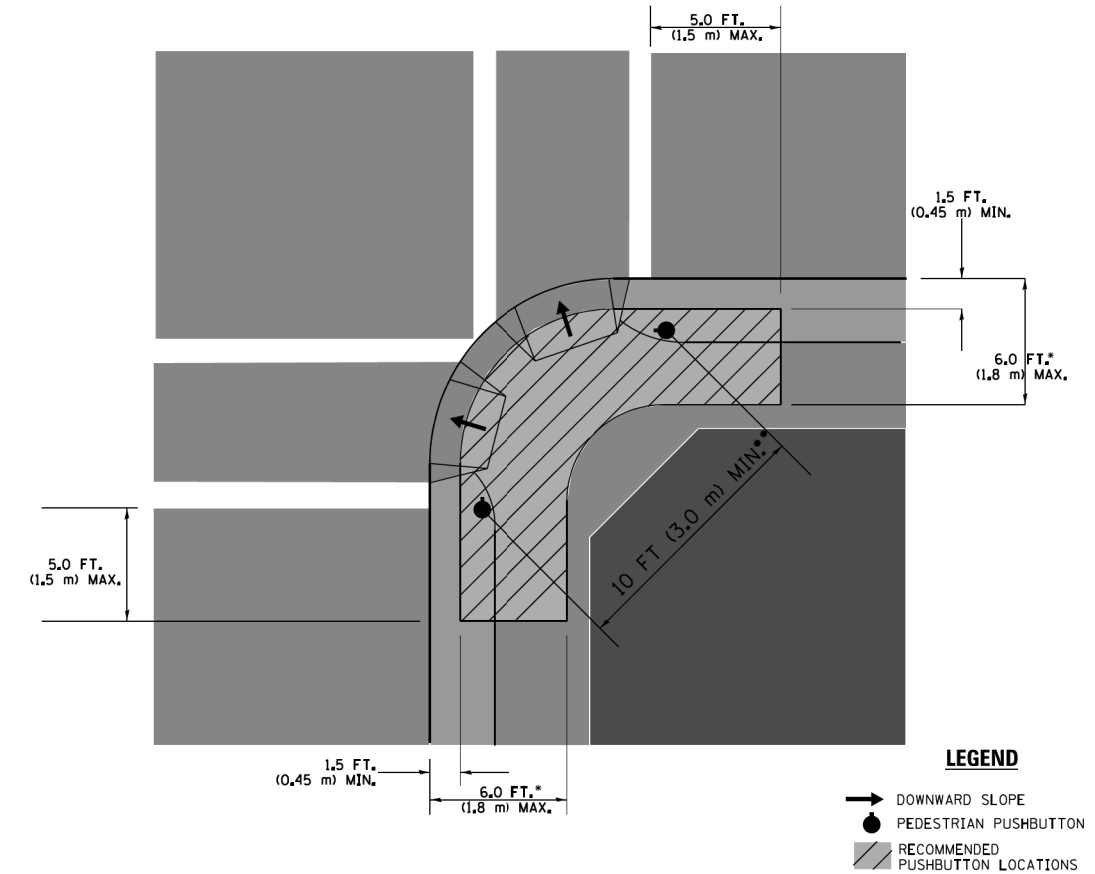
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

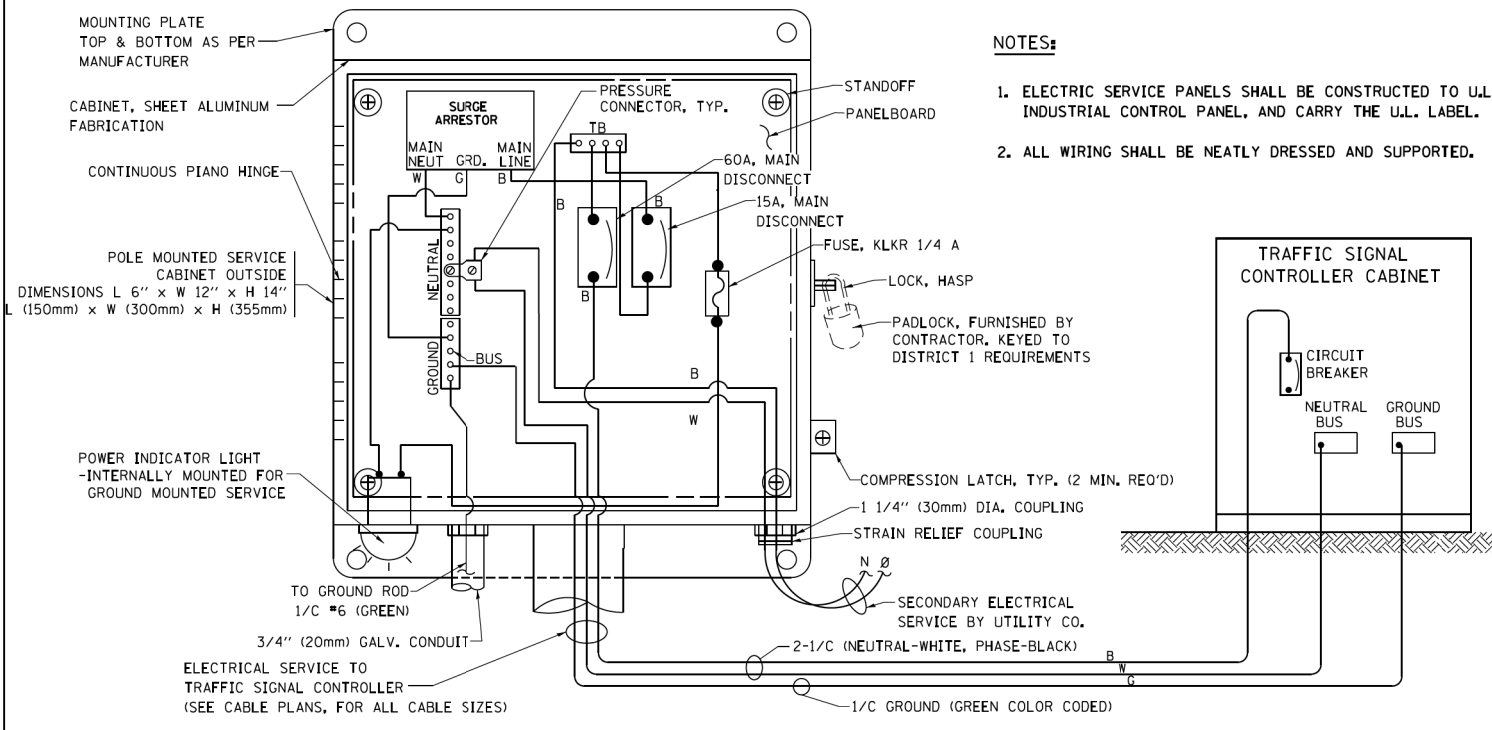
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

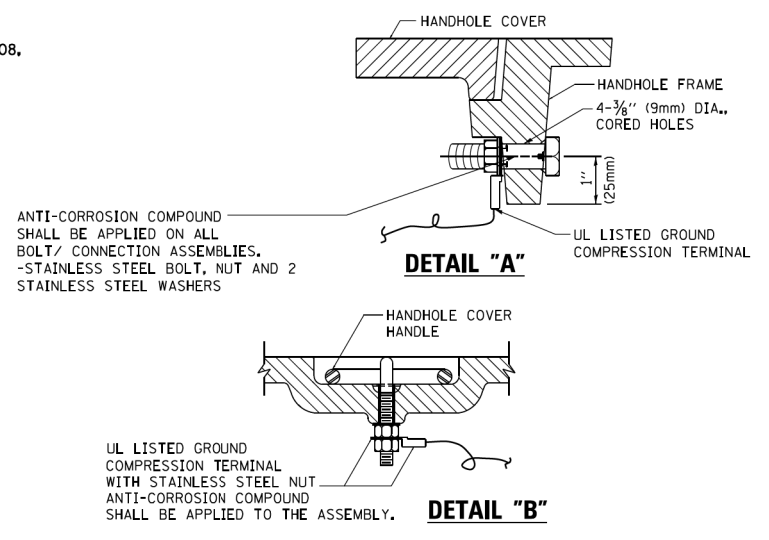
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

TS SHT NO. 3

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE. 344	SECTION 2017-024I	COUNTY DU PAGE	TOTAL SHEETS 38	SHEET NO. 21		
ca:\pwork\pwork\footemj\d0108315\ts05.dgn	DRAWN - BCK	CHECKED - DAD	REVISED -			TS-05		CONTRACT NO. 62F20				
PLOT SCALE = 50.0000' / 1"	DATE - 10-28-09	DATE - 10-28-09	REVISED -			SCALE: NONE		SHEET NO. 3 OF 7 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-ROMN(909)
PLOT DATE = 1/13/2014												

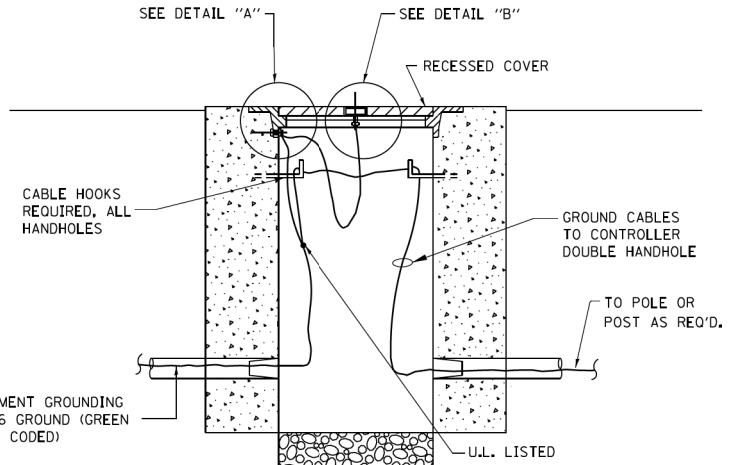


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)

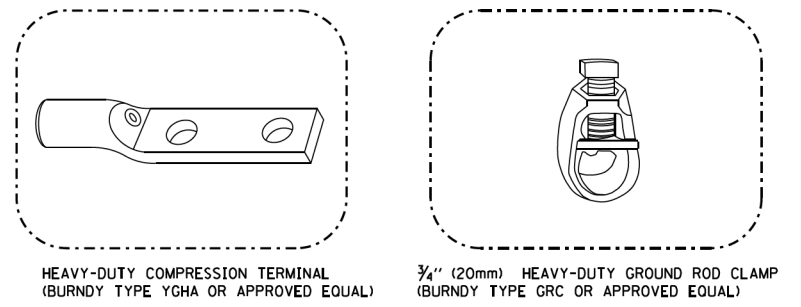


NOTES:
GROUNDING SYSTEM

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

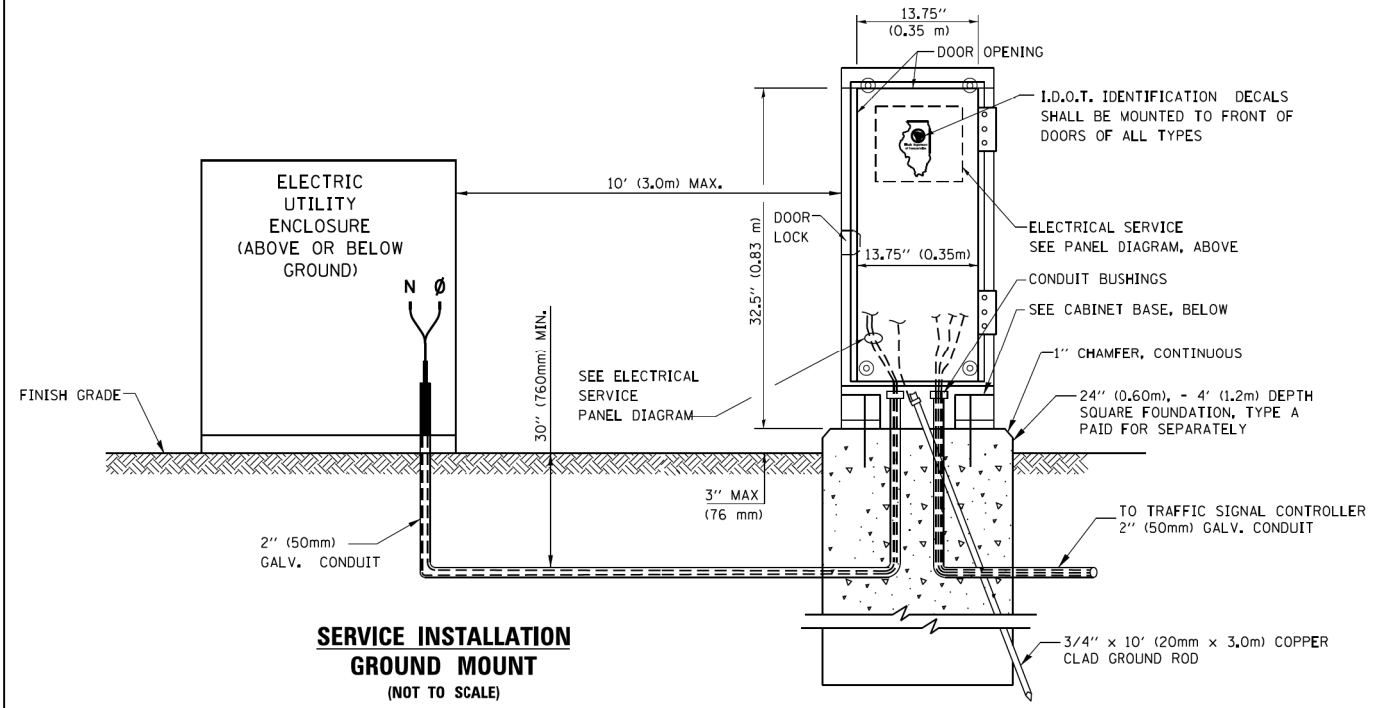


HANDHOLE COVER & FRAME – GROUNDING DETAIL (NOT TO SCALE)

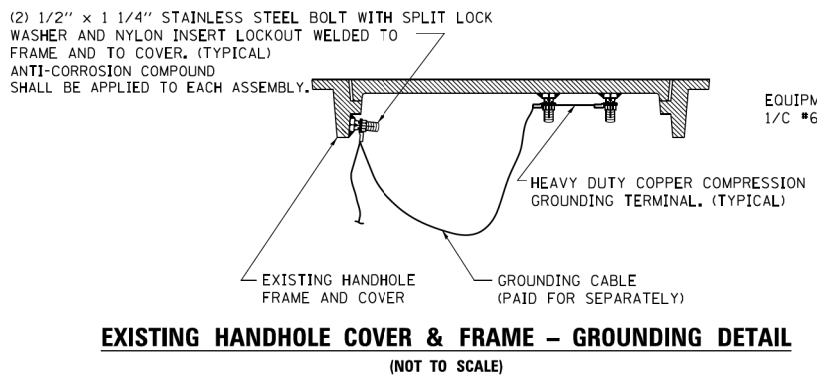


NOTES:

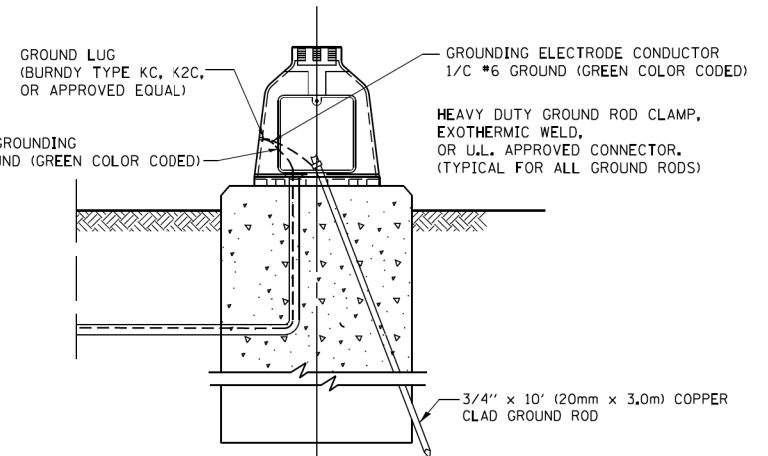
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

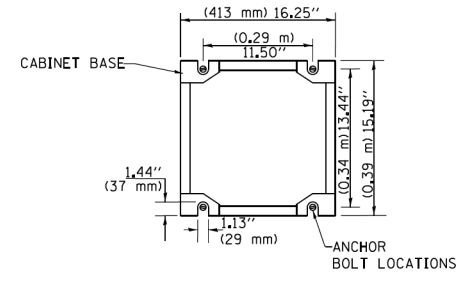


EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL (NOT TO SCALE)



MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)

CABINET – BASE BOLT PATTERN (NOT TO SCALE)



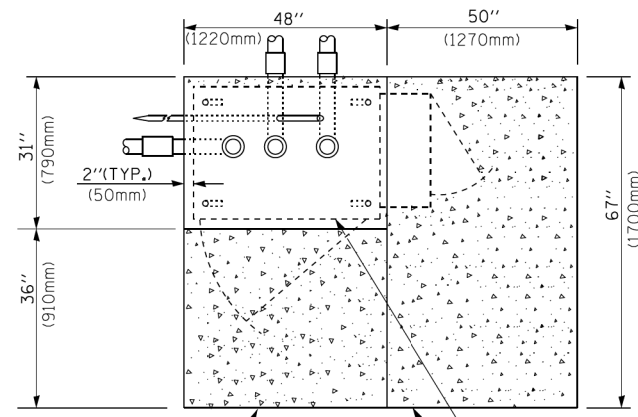
TS SHT NO. 4

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

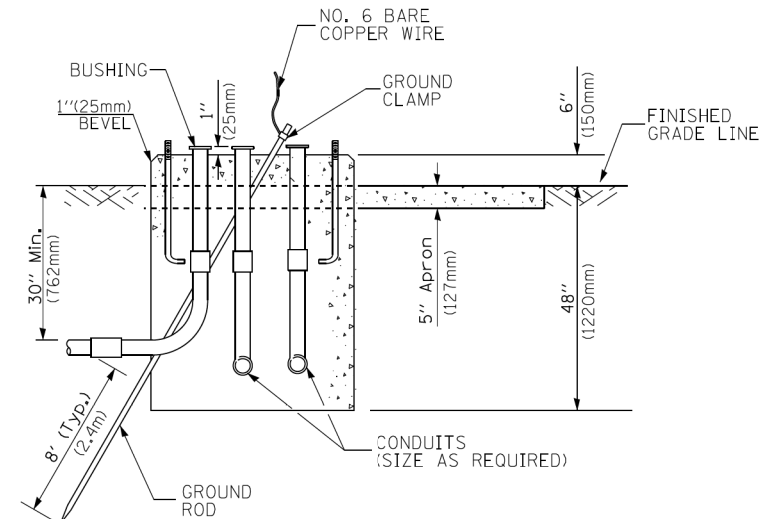
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS
STA.	TO STA.

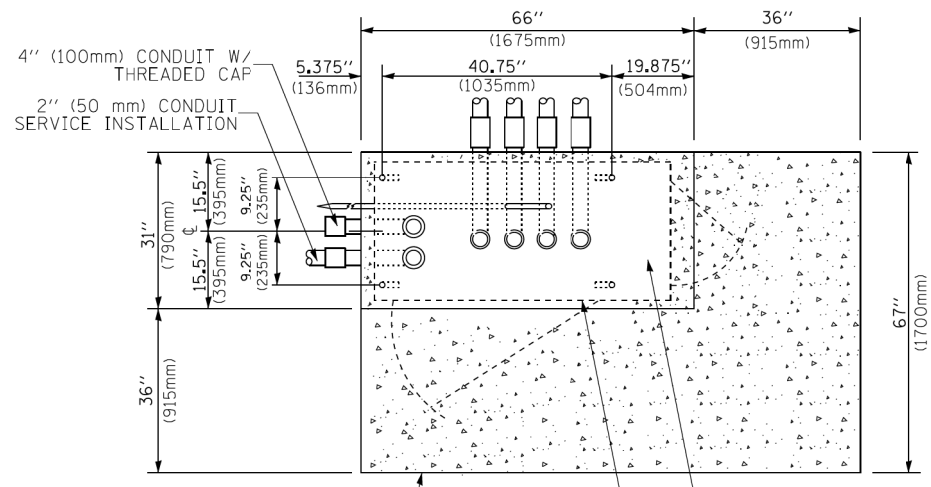
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	DU PAGE	38	22
TS-05		CONTRACT NO. 62F20		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-ROMN909				



TOP VIEW

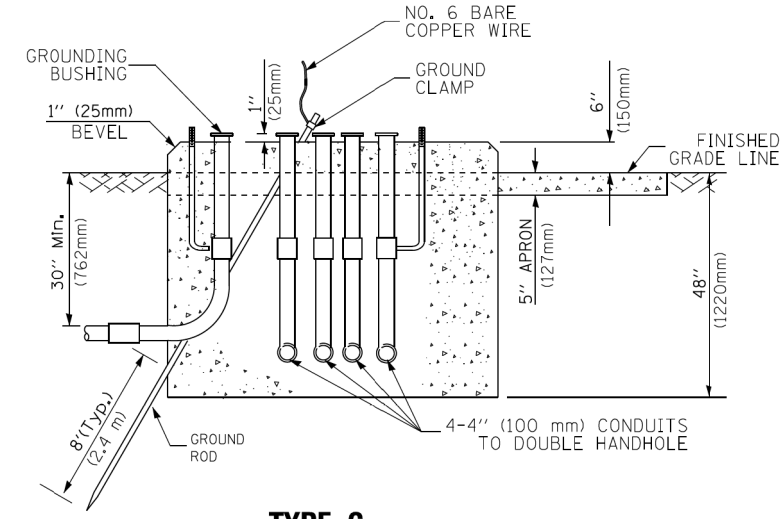


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

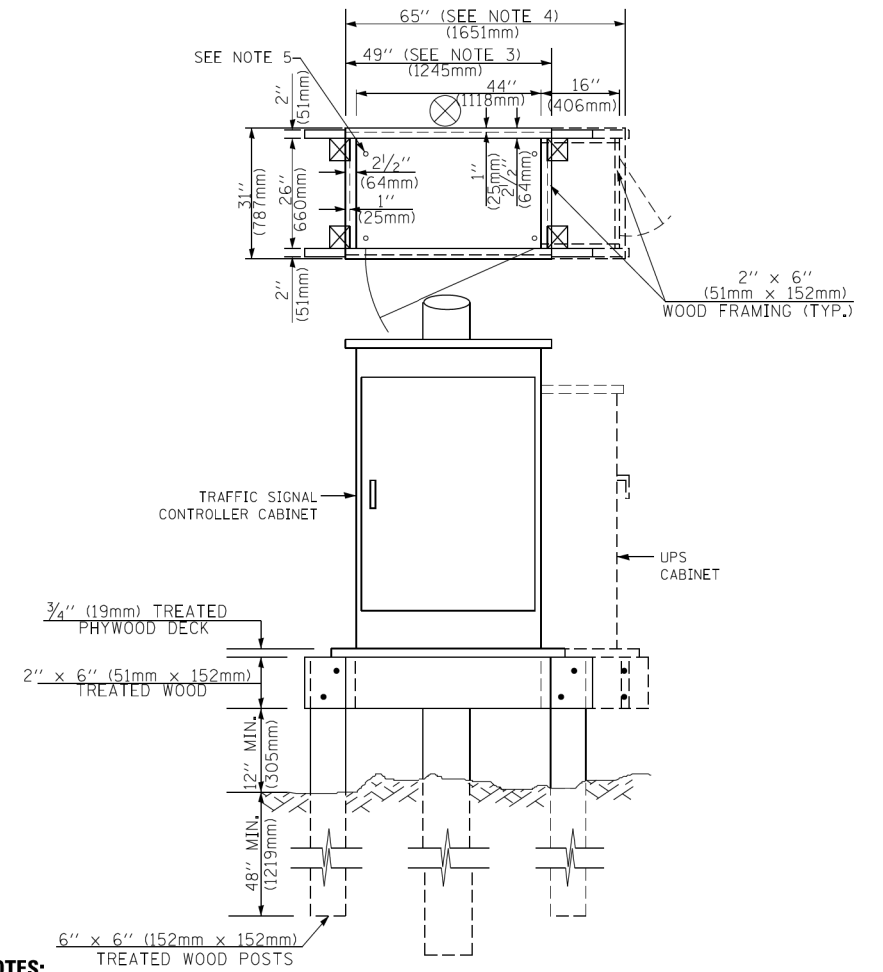


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

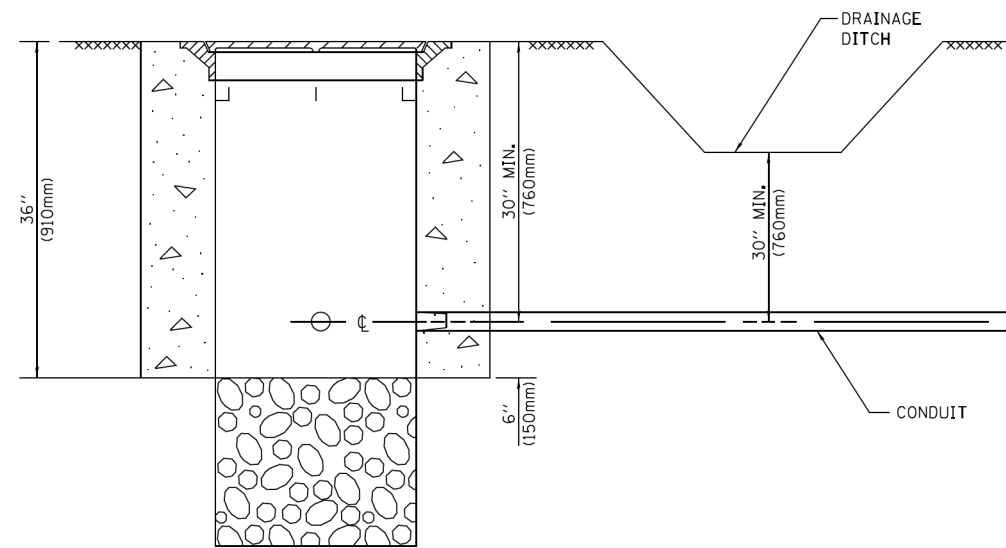
NOTES:

- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TS SHT NO. 5

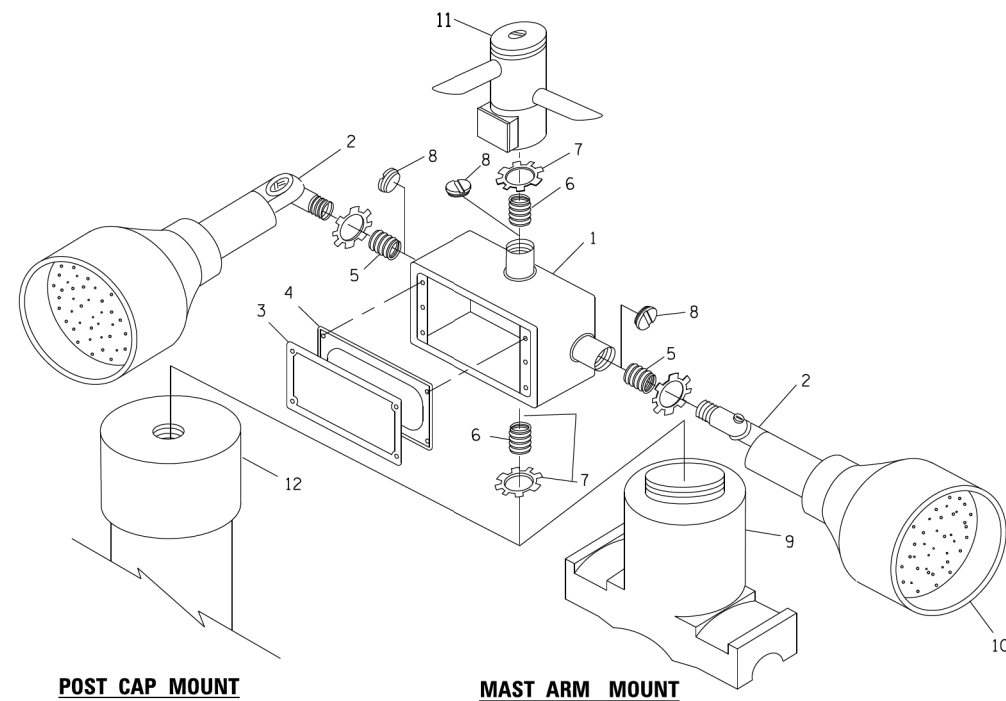
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ca:\p\work\p\dot\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -			344	2017-024I	DU PAGE	38	23
PLOT SCALE = 50.0000' / in.		CHECKED - DAD	REVISED -			TS-05		CONTRACT NO. 62F20		
PLOT DATE = 1/13/2014		DATE - 10-28-09	REVISED -			SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS



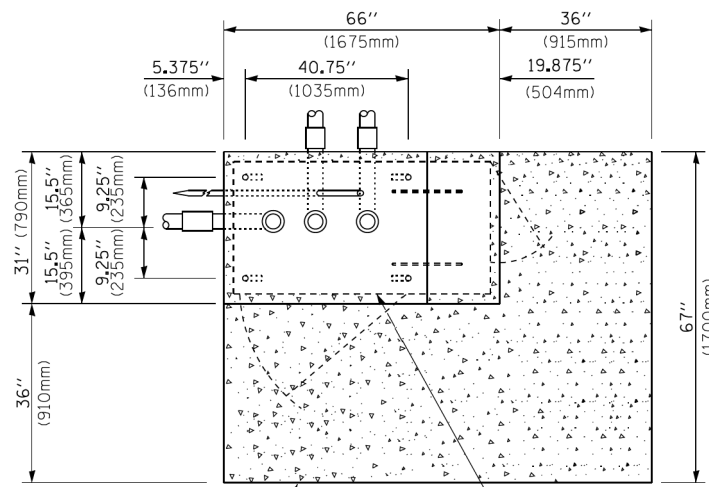
NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

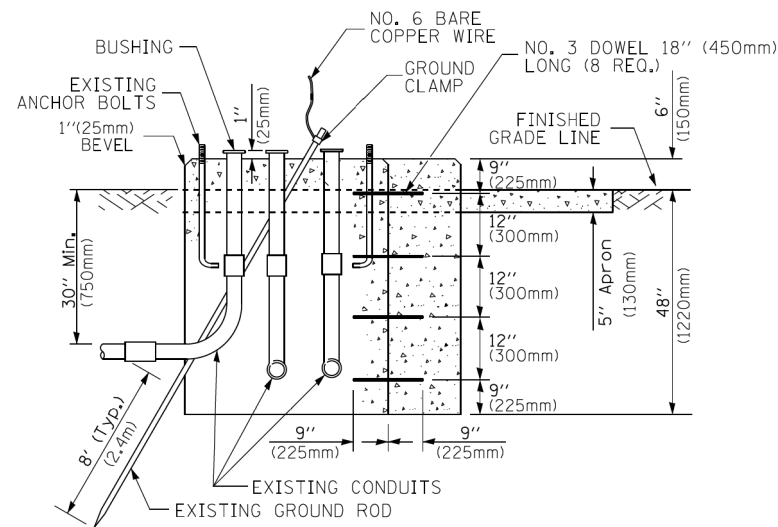
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

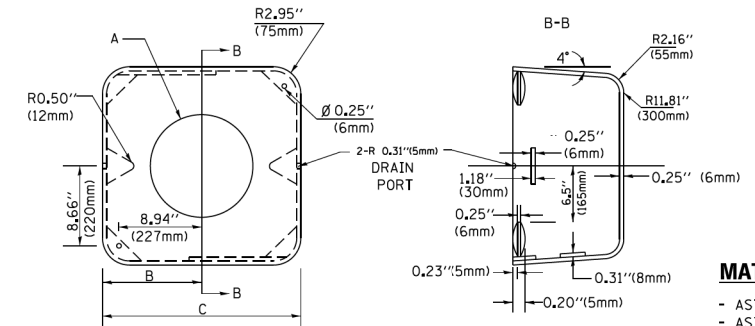


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4"(19 mm) CLOSE NIPPLE
7	3/4"(19 mm) LOCKNUT
8	3/4"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

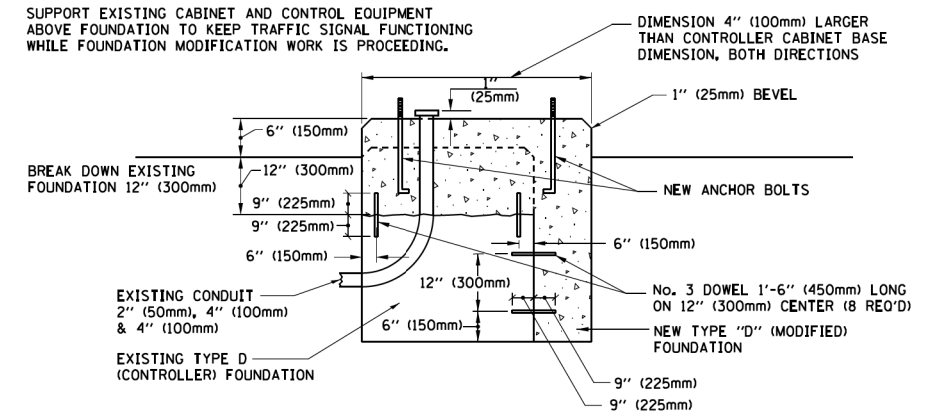
SHROUD

NOTES:

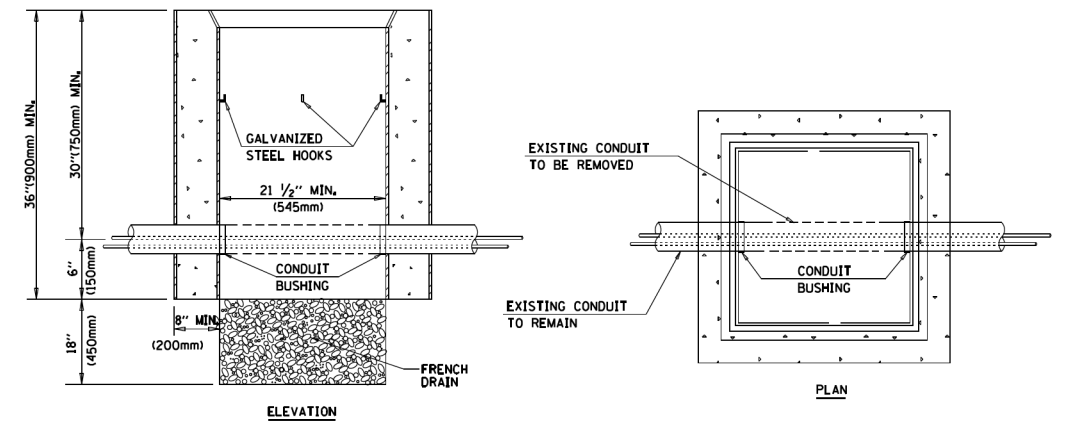
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

TS SHT NO. 6

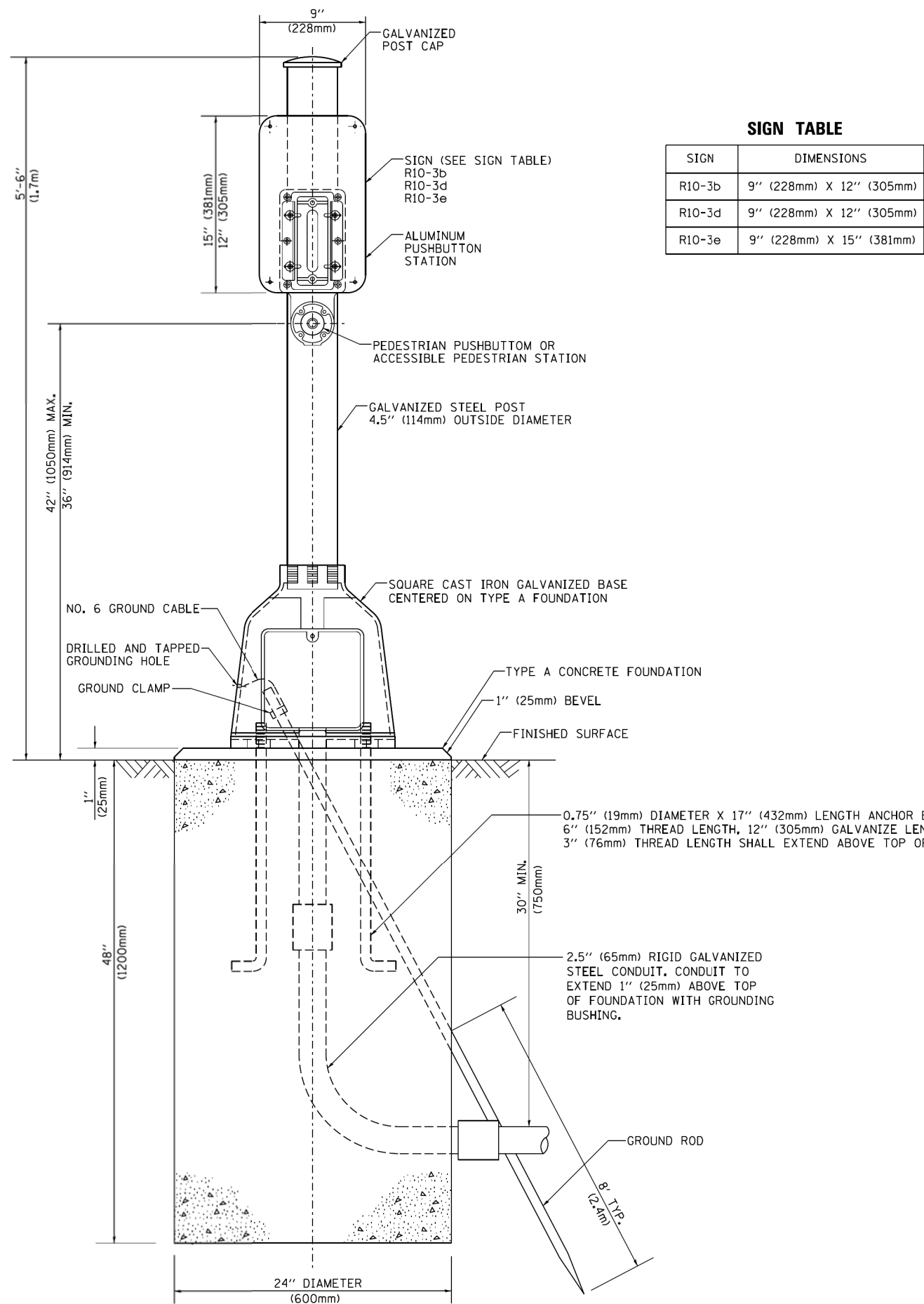
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PLOT DATE = 1/13/2014		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

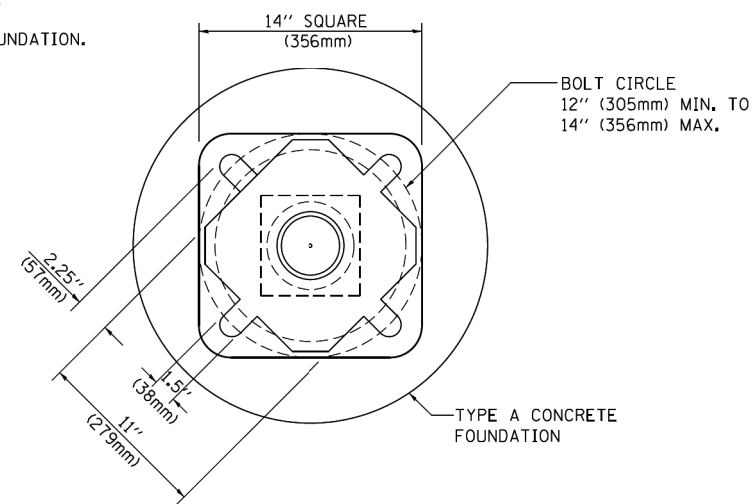
SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	DU PAGE	38	24
TS-05		CONTRACT NO. 62F20		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-ROMN909				



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

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PLOT DATE = 1/13/2014		DATE - 10/1/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	DU PAGE	38	25
TS-05		CONTRACT NO. 62F20		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HSIP-ROMN909				



PLOT DRIVER = pdfNOLAYERSbw.plt	DESIGNED - BKS	REVISED -
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PLOT SCALE = 40.0000 ' / in.	CHECKED - BKS	REVISED -
PLOT DATE = 3/30/2020 8:53:28 PM	DATE - 03/18/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL BACKPLATE REPLACEMENT SCHEDULE OF QUANTITIES
 IL ROUTE 83 - IL 171/107TH STREET TO US 20 RAMPS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I		38	26
			CONTRACT NO. 62F20	
ILLINOIS FED. AID PROJECT HSIP-ROMN909				

REMOVAL AND RELOCATION NOTES

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AT INDICATED INTERSECTIONS AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

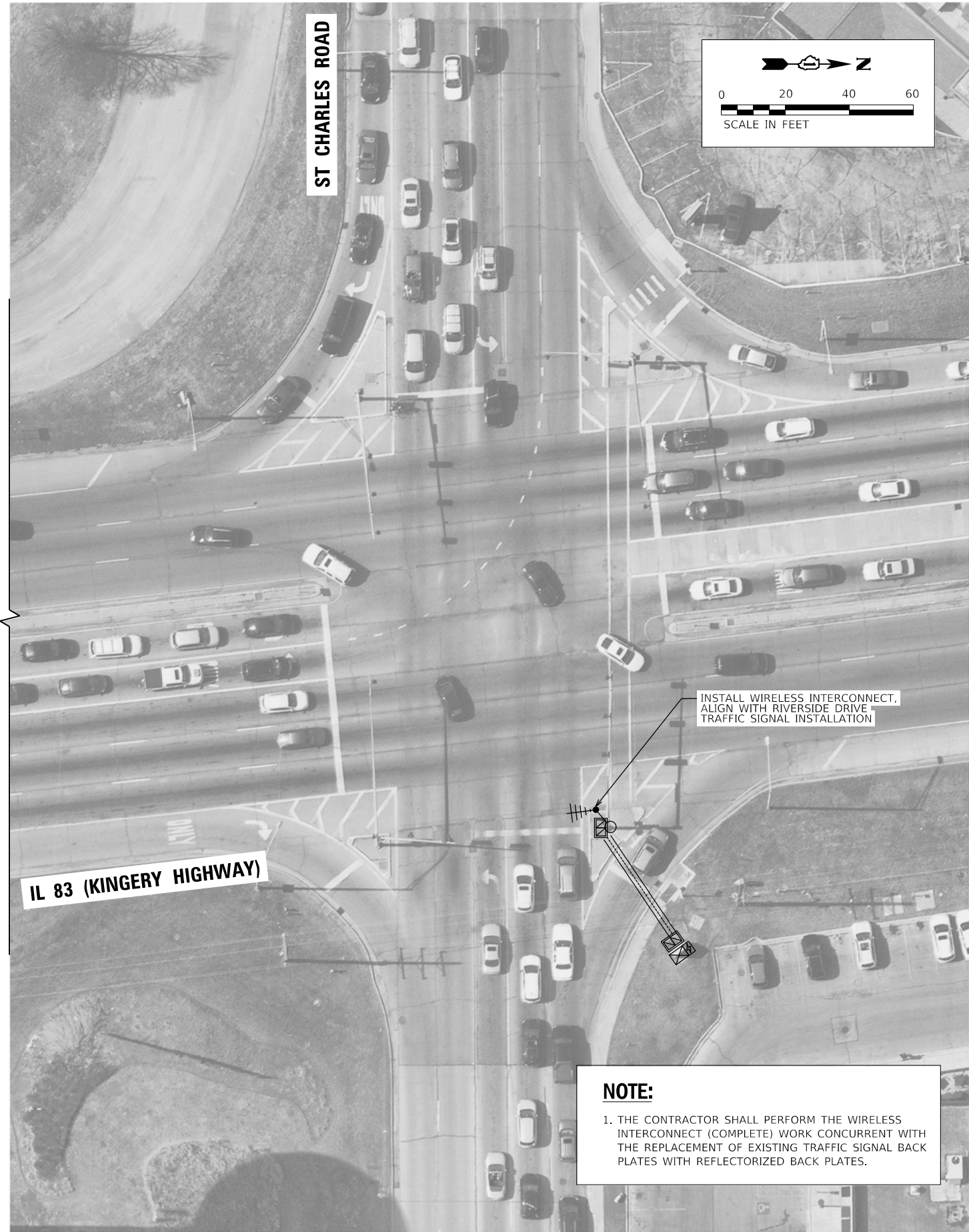
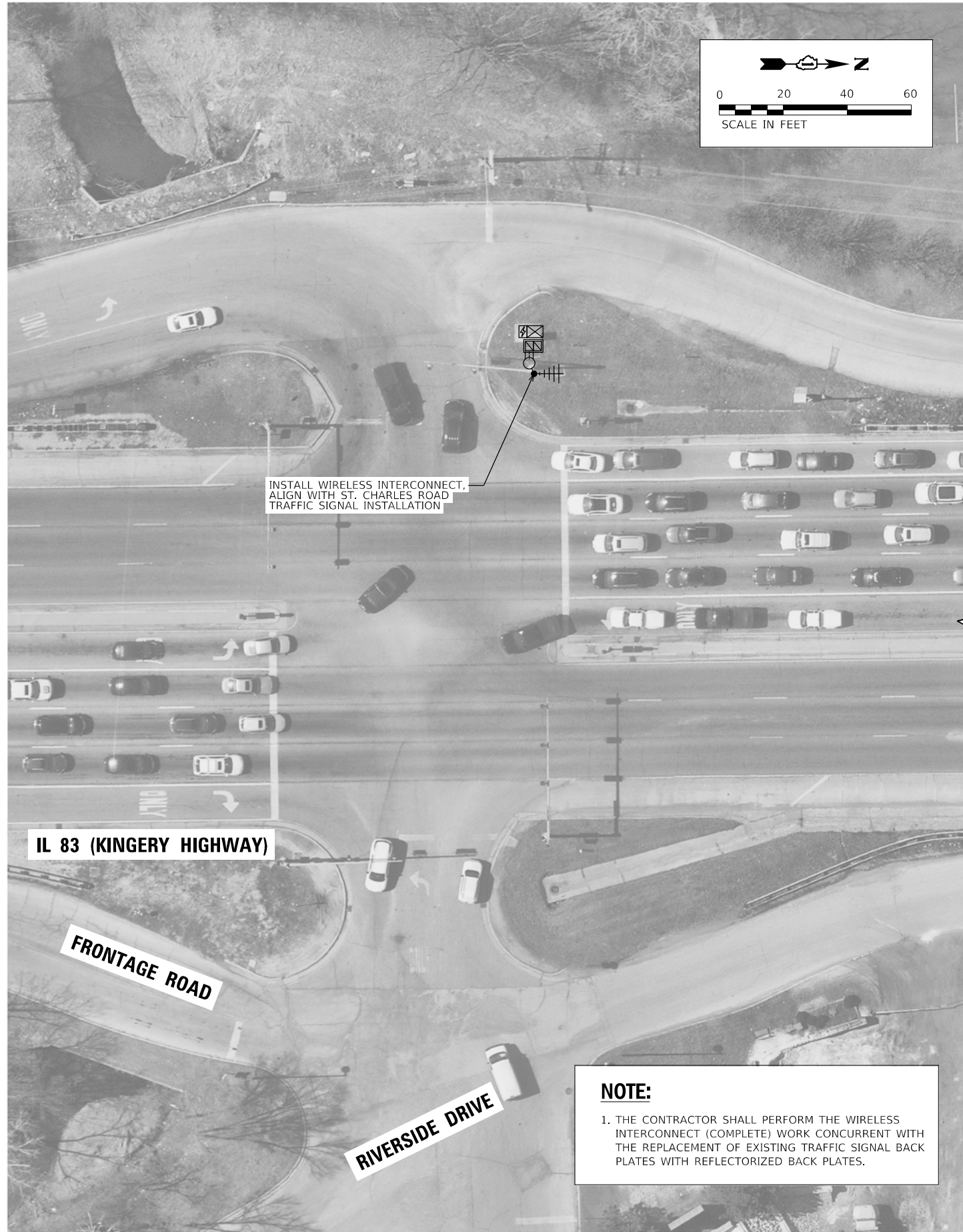
201 EACH TRAFFIC SIGNAL BACKPLATE

TRAFFIC SIGNAL BACKPLATE REPLACEMENT SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL	107TH STREET / IL 171	BLUFF ROAD	91ST STREET	CENTRAL AVENUE	MIDWAY DRIVE	75TH STREET	72ND COURT	67TH STREET	63RD STREET	55TH STREET RAMPS (NB IL 83)	55TH STREET RAMPS (SB IL 83)	OGDEN AVENUE - WEST RAMPS	OGDEN AVENUE - EAST RAMPS	31ST STREET - WEST RAMPS	31ST STREET - EAST RAMPS	22ND STREET	HODGES ROAD/OAK BROOK CENTER	16TH STREET	RIVERSIDE DRIVE	ST. CHARLES ROAD	ELMHURST CROSSING	QUARRY DRIVEWAY	NORTH AVE (IL 64)	US 20 - WEST RAMPS	US 20 - EAST RAMPS
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	223	17	2	10	12	11	8	9	12	14	4	4	7	6	3	3	12	12	12	10	12	8	6	14	5	10
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

NOTES:

REMOVAL OF EXISTING TRAFFIC SIGNAL BACKPLATES IS INCLUDED UNDER THE REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT ITEM.



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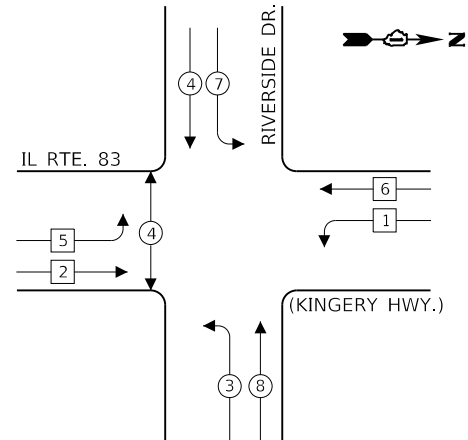
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
 IL ROUTE 83 AT RIVERSIDE DRIVE AND IL ROUTE 83 AT ST CHARLES ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	DU PAGE	38	27
			CONTRACT NO. 62F20	
ILLINOIS FED. AID PROJECT HSIP-ROMN(909)				

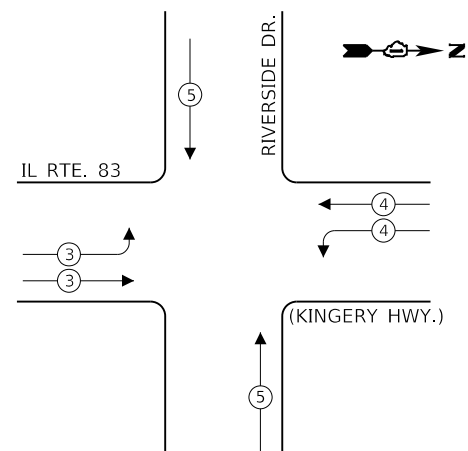
CONTROLLER SEQUENCE



LEGEND:

- ← (⊛) → DUAL ENTRY PHASE
- ← (⊛) → PEDESTRIAN PHASE
- ← (⊛) → SINGLE ENTRY PHASE
- ← (⊛) OL → OVERLAP
- * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	17	50	170
(YELLOW)	20	25	25	125
(GREEN)	24	15	25	90
PERMISSIVE ARROW	8	12	10	10
PED. SIGNAL	2	25	100	50
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	-	-	-
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	-	-
STREET NAME SIGN	-	-	-	-
LUMINAIRE	-	-	-	-
TOTAL =				570

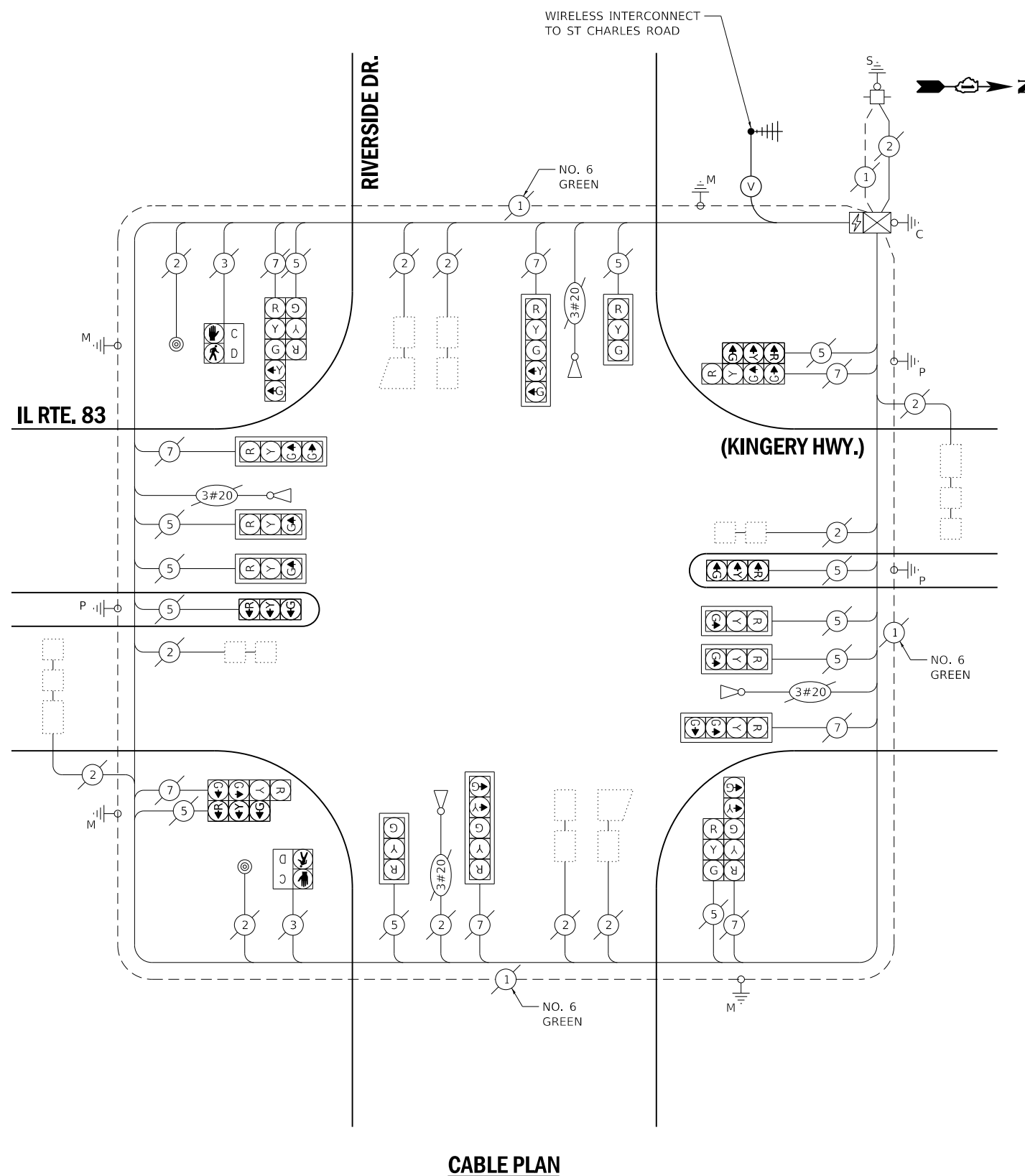
ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY / DISTRICT 1
 201 WEST CENTER COURT / SCHAMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: XXXXXX
 PHONE: (XXX) XXX-XXXX
 COMPANY: COMED
 ACCOUNT NUMBER: ---



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CABLE PLAN

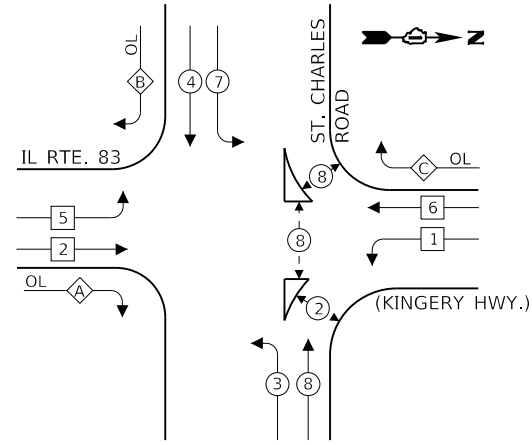
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 IL ROUTE 83 AT RIVERSIDE DRIVE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	DU PAGE	38	28
CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN(909)				

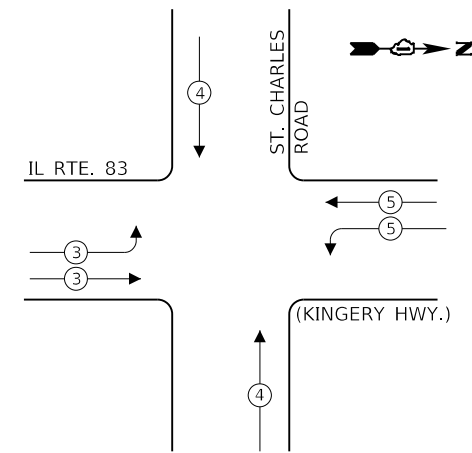
CONTROLLER SEQUENCE



LEGEND:

- ⊛ — DUAL ENTRY PHASE
- ⊛ — PEDESTRIAN PHASE
- ⊛ — SINGLE ENTRY PHASE
- ⊛ OL — OVERLAP
- * — NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	17	50	170
(YELLOW)	20	25	25	125
(GREEN)	20	15	25	75
PERMISSIVE ARROW	20	12	10	24
PED. SIGNAL	6	25	100	150
CONTROLLER	2	100	100	200
UPS	1	25	100	25
VIDEO SYSTEM	-	-	-	-
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	-	-
STREET NAME SIGN	-	-	-	-
LUMINAIRE	-	-	-	-
TOTAL =				769

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY / DISTRICT 1
 201 WEST CENTER COURT / SCHAMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: XXXXXX
 PHONE: (XXX) XXX-XXXX
 COMPANY: COMED
 ACCOUNT NUMBER: ---



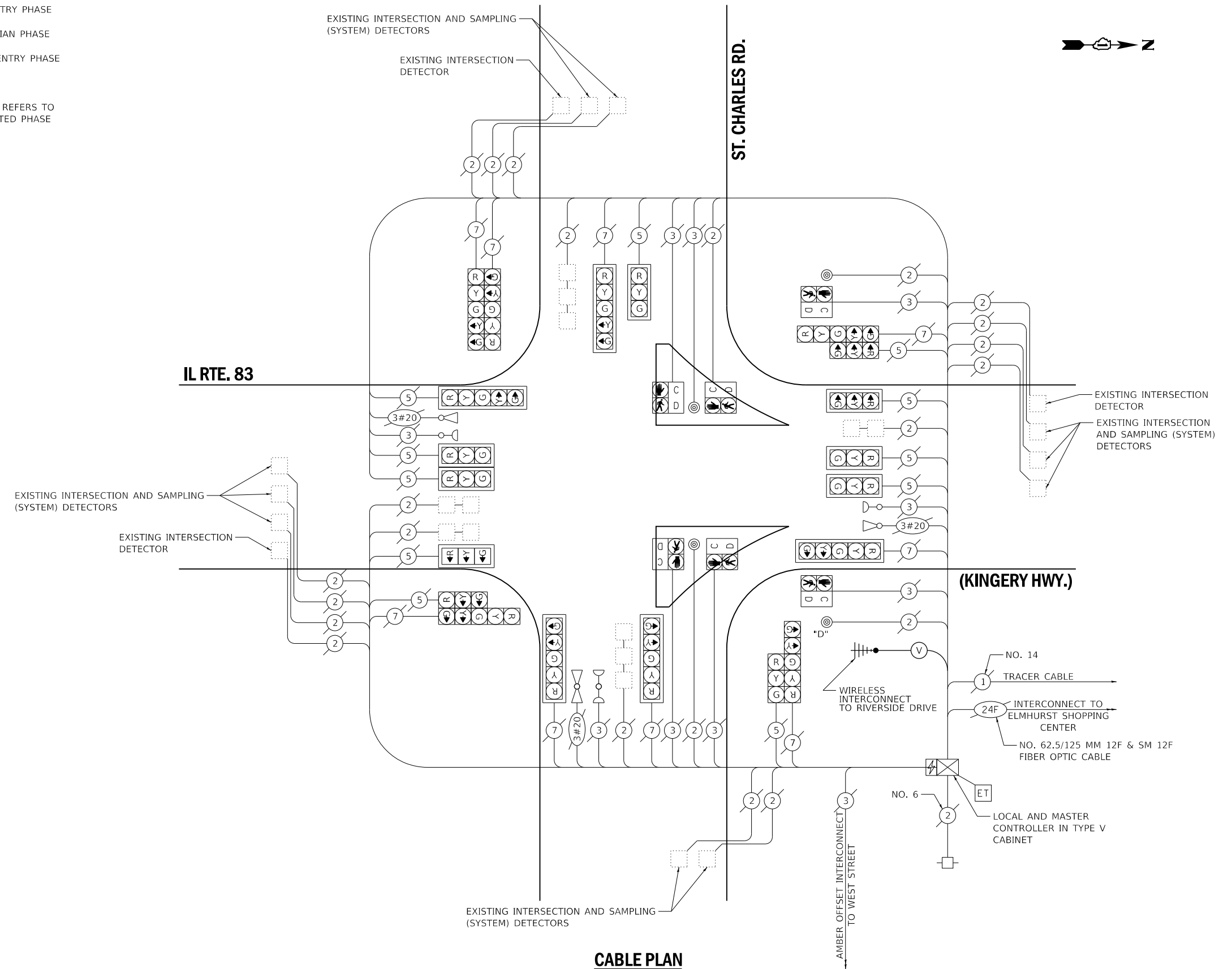
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DESIGNED - BKS
 DRAWN - SVJ
 CHECKED - BKS
 DATE - 03/18/2020

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN



NOTE: PUSHBUTTON "D" SHALL PLACE A CALL IN PHASE 2

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 IL ROUTE 83 AT ST CHARLES ROAD

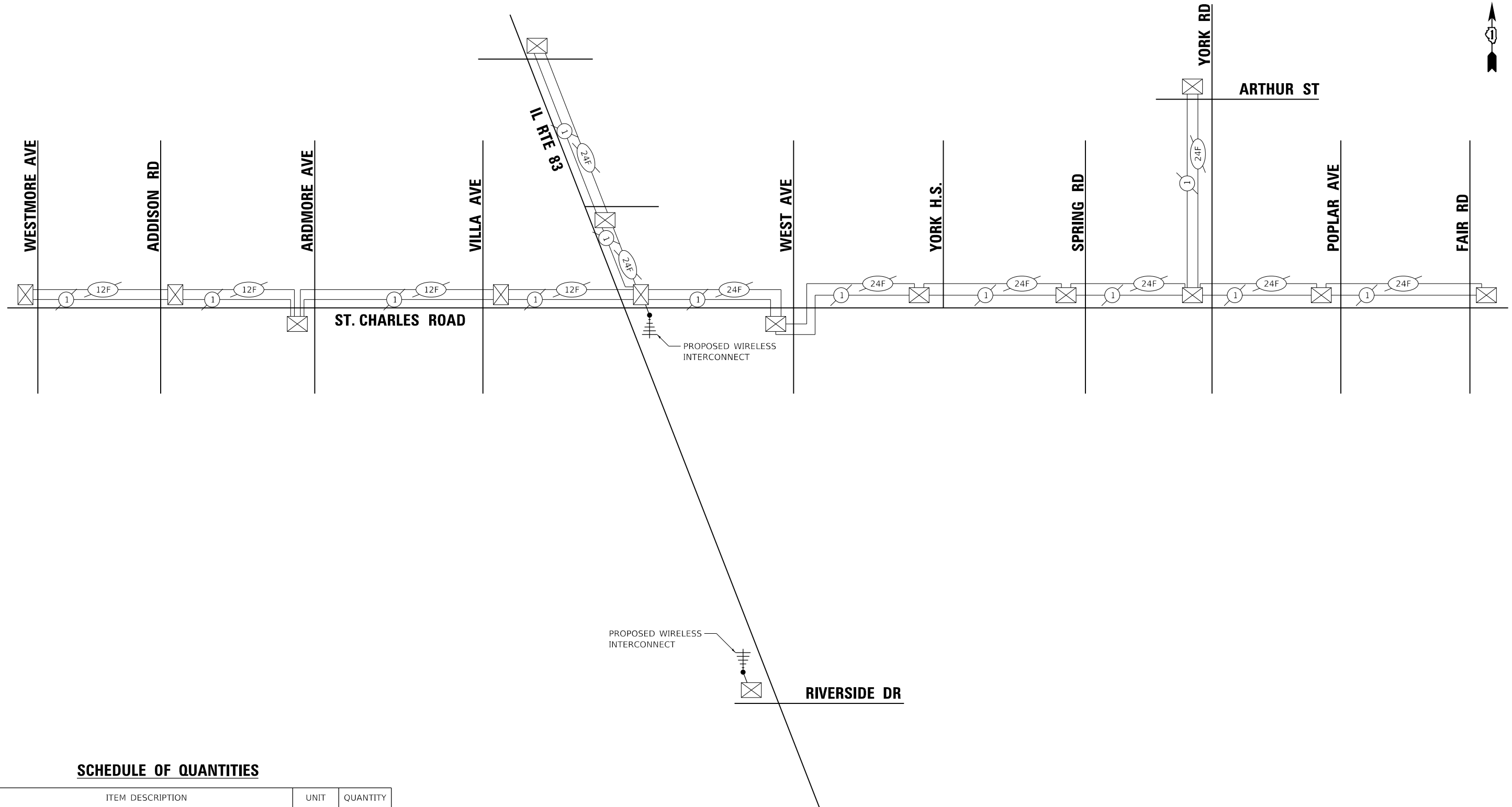
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	DU PAGE	38	29
CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN(909)				

TS 645
 ECON 36

TS SHT NO. 11

USER: abcmest
 FILE: \\dell01\cadd\proj\190_14 Phase II VechVeh\Drawings\Work Order 5162F20\Drawings\Sheet11\62F20-eh-ts-cabplan02.dgn



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
* MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0
WIRELESS INTERCONNECT (COMPLETE)	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

INTERCONNECT SCHEMATIC PLAN

* THE WIRELESS INTERCONNECT (COMPLETE) WORK SHALL BE COMPLETED AT THE TIME OF REPLACING THE TRAFFIC SIGNAL BACKPLATES AND THEREFORE WILL NOT REQUIRE SEPARATE MAINTANENCE OF EXISTING TRAFFIC SIGNAL INSTALLATION QUANTITY.

THE TRAFFIC SIGNAL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT EQUIPMENT

TS SHT NO. 12

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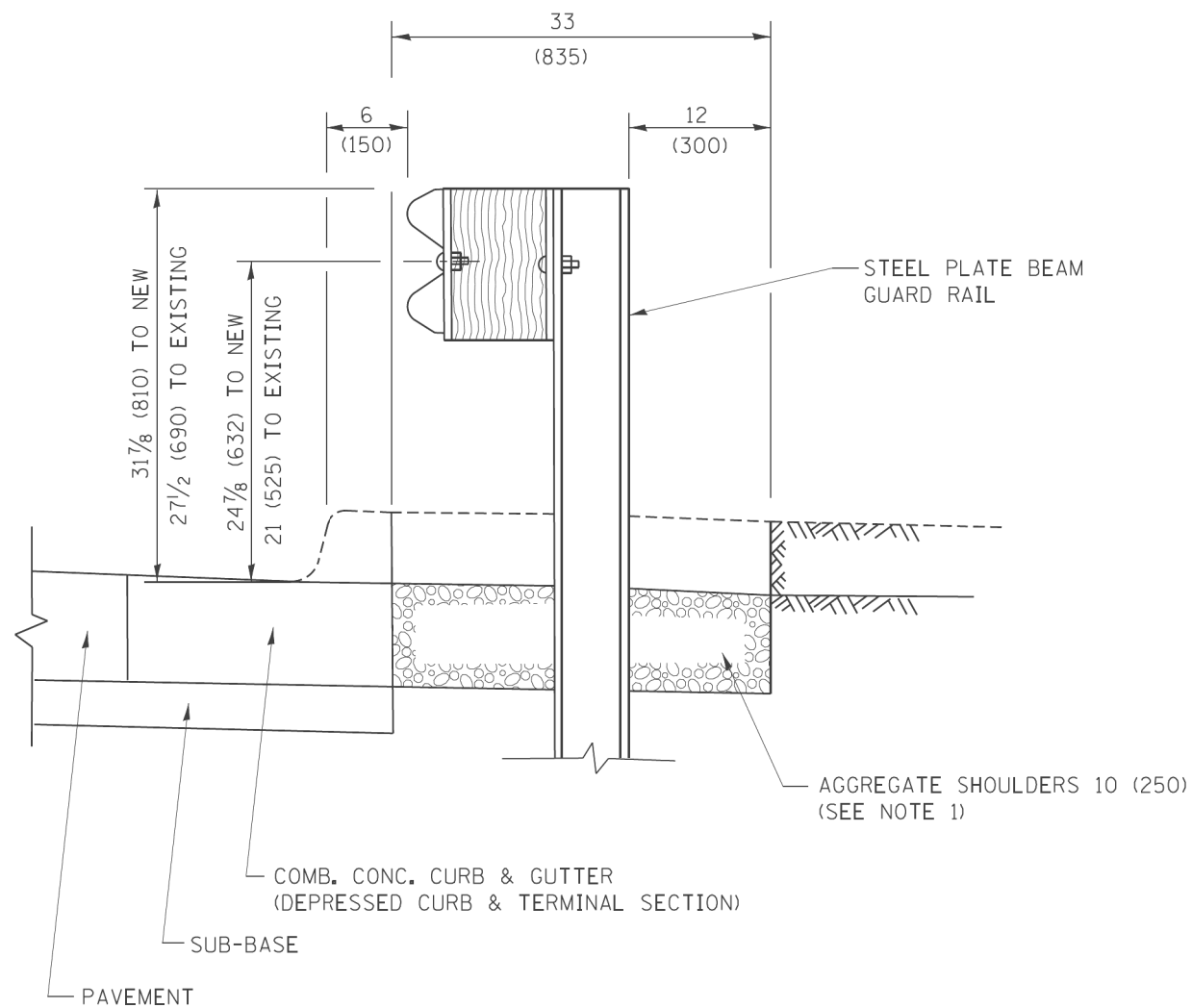
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I		38	30
CONTRACT NO. 62F20				
ILLINOIS FED. AID PROJECT HSIP-ROMN(909)				

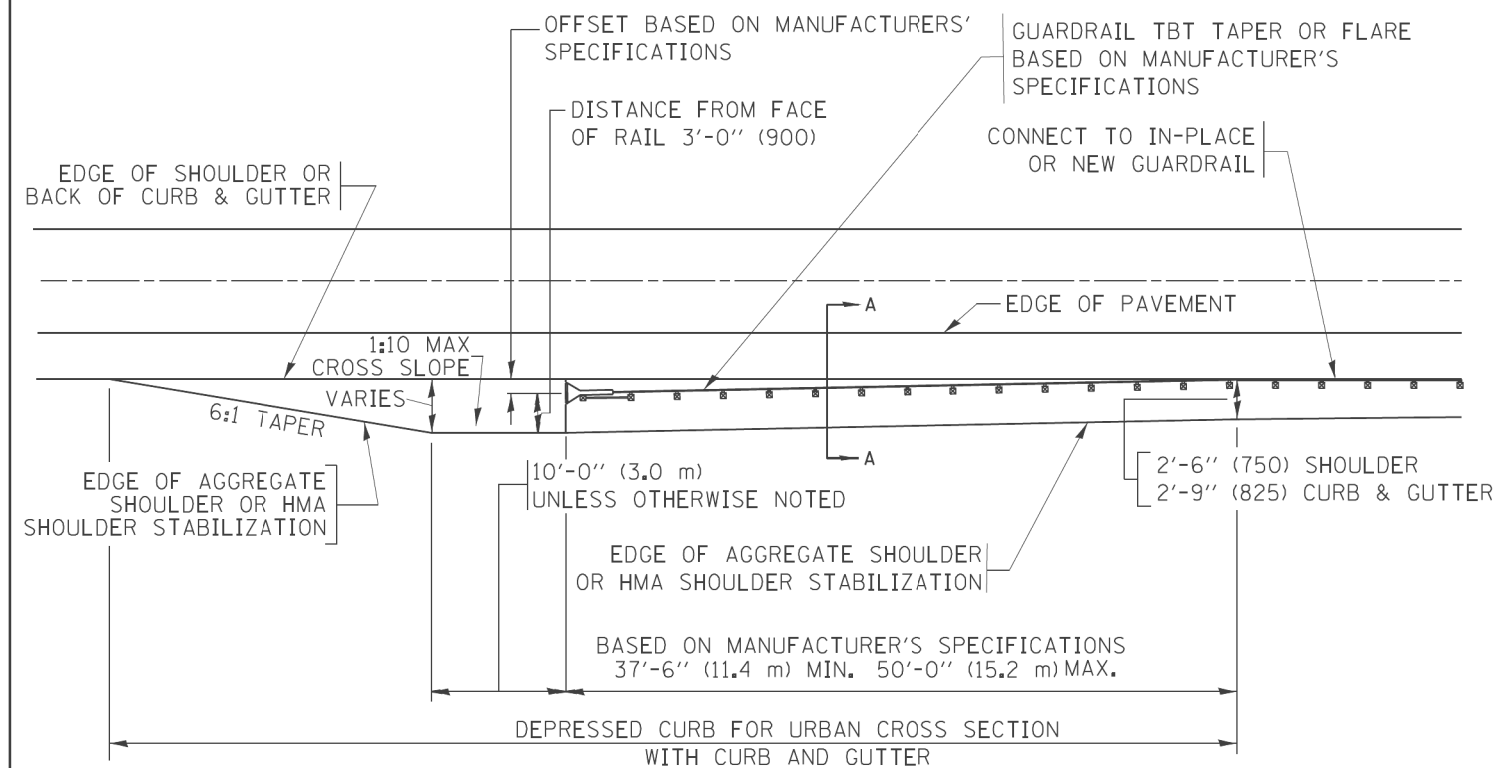
ECON 36



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

- AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.
- HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.
- COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

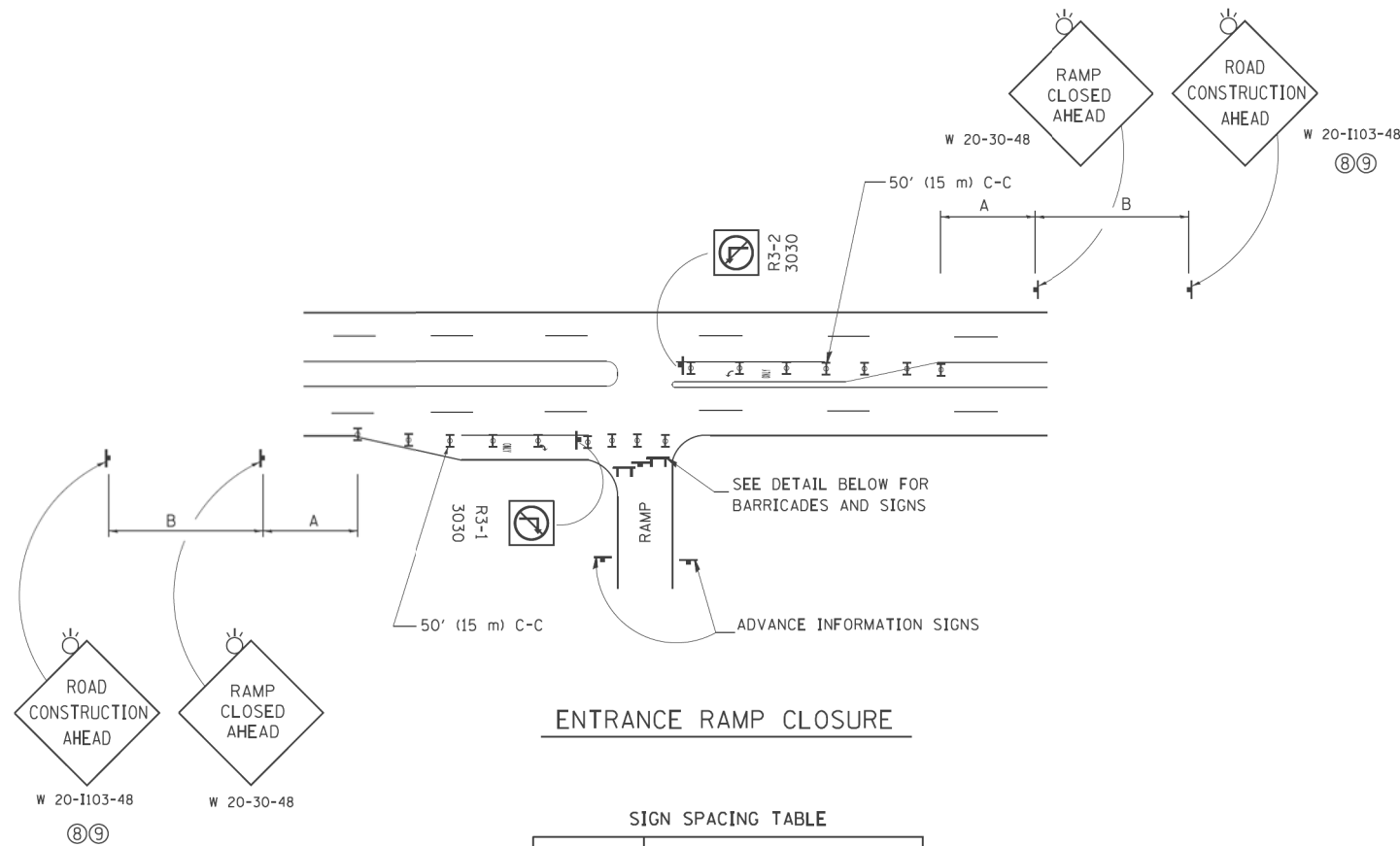
TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY.1 SPL.			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD600-10 (BD34)			CONTRACT NO. 62F20	
ILLINOIS FED. AID PROJECT HSIP-ROMN909				

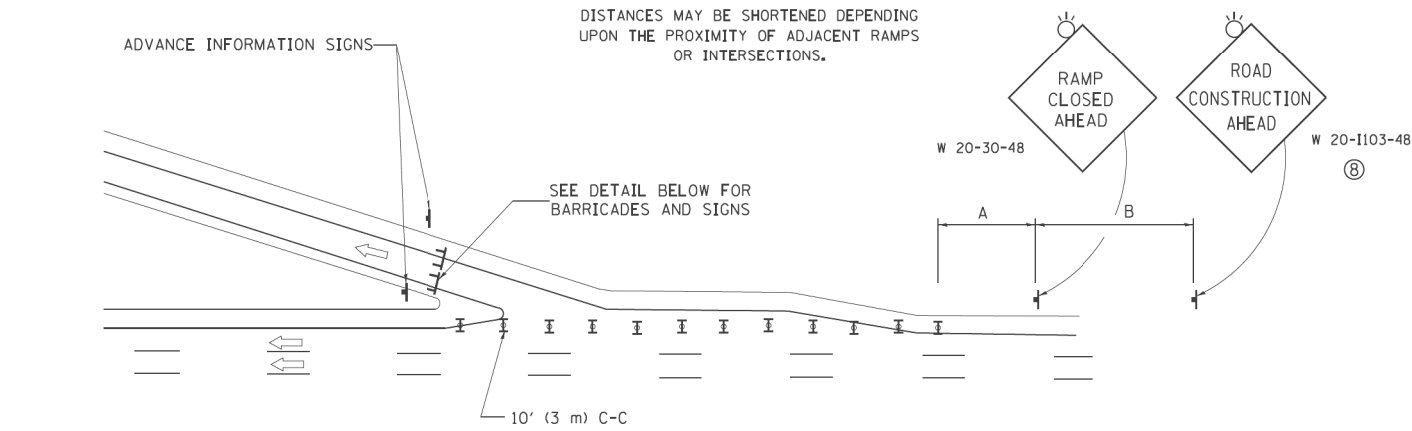


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

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

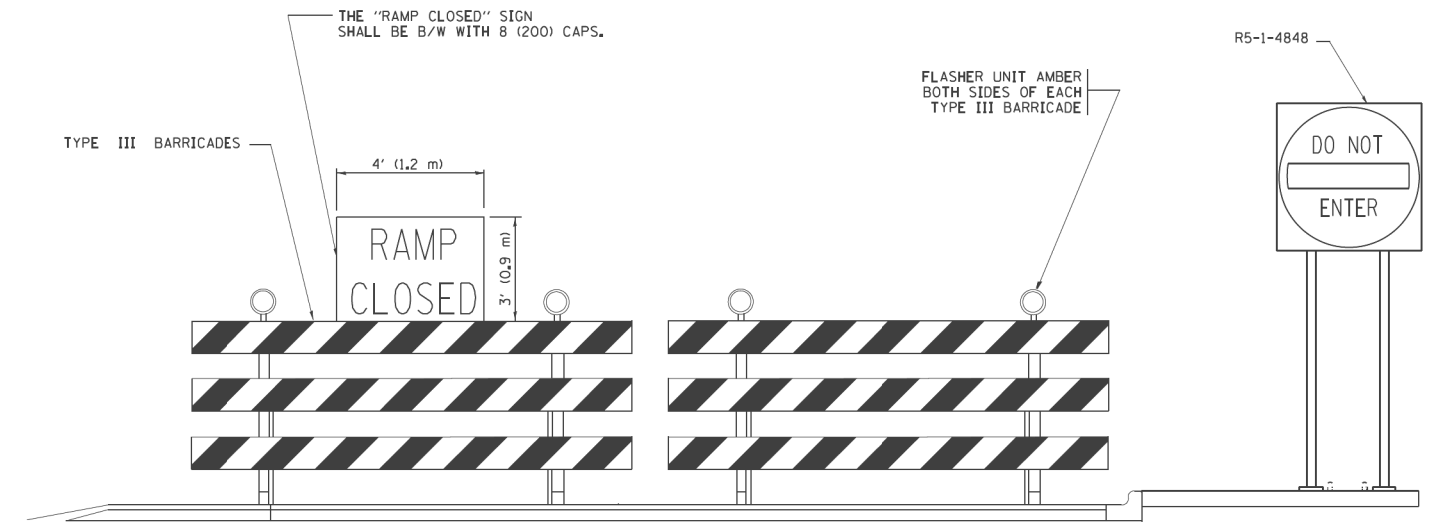
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

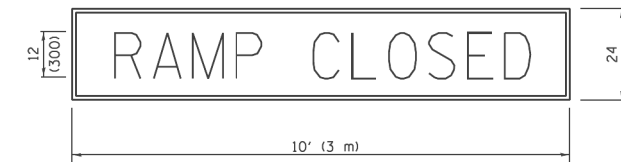
SYMBOLS

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



DETAIL FOR REQUIRED BARRICADES & SIGNS

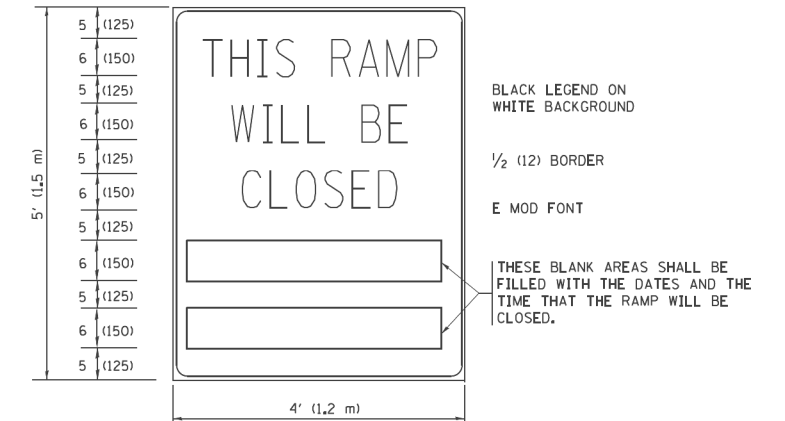
RAMP CLOSURE ADVANCE WARNING SIGN



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

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

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

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

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

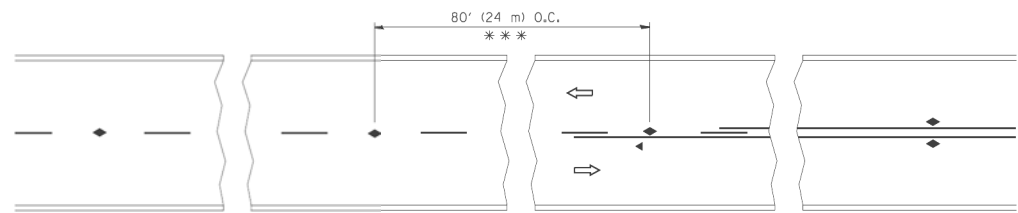
THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

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

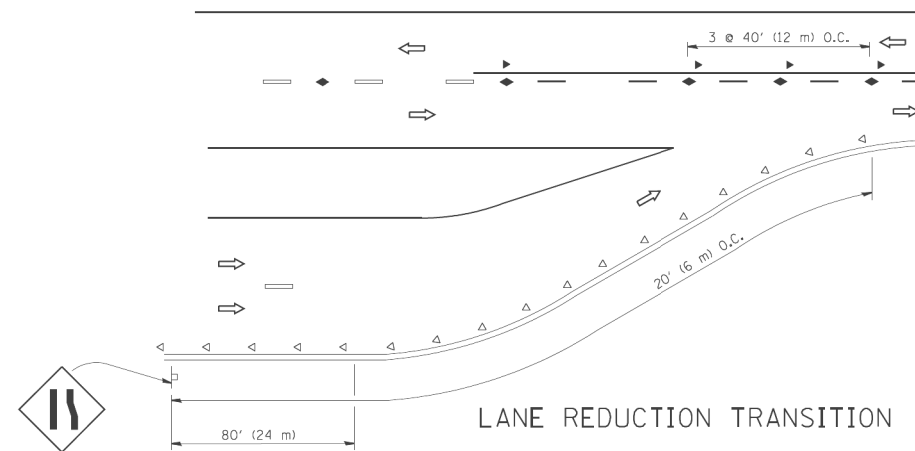
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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pw\1\084EBID\INTEG\illinois.gov\FWIDOT\Documents\DDOT Offices\District 1\Projects\Dist 1\CAD\CADData\CADsheets\tc08.dgn	DRAWN	REVISION	REVISION					344	2017-024I	VARIES +	38	32
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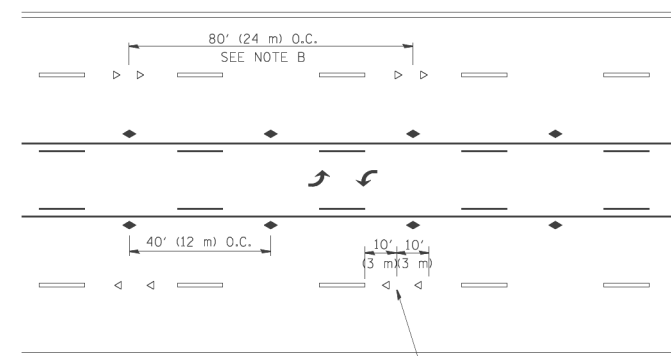


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

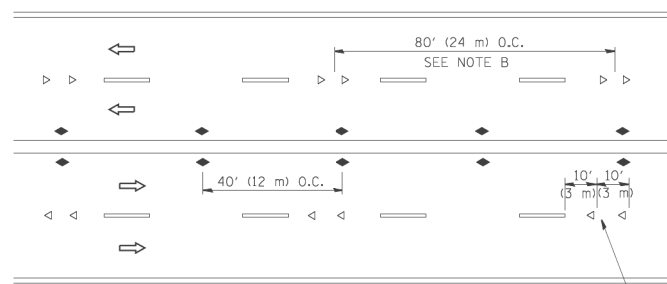
TWO-LANE/TWO-WAY



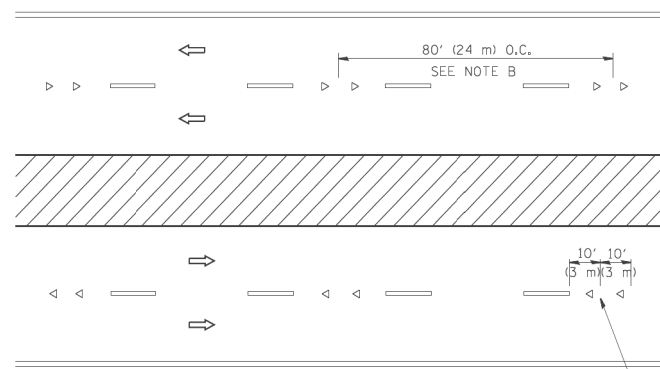
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

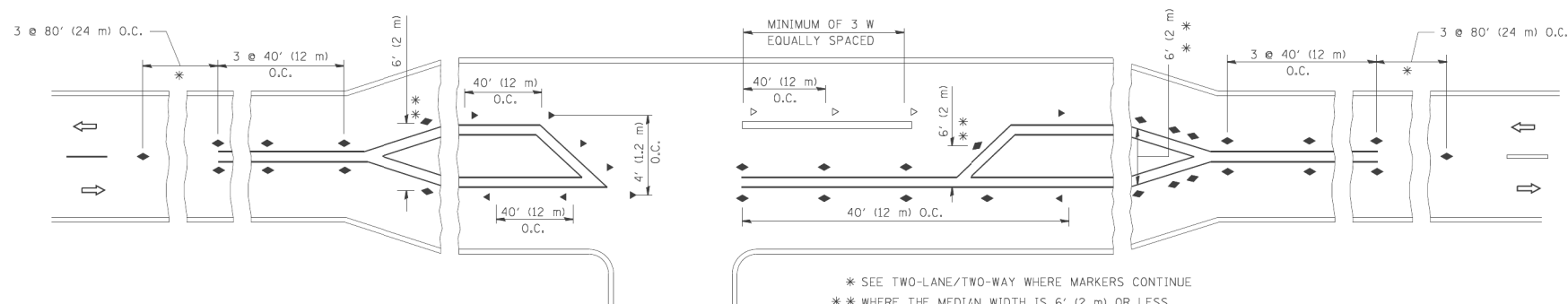
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

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

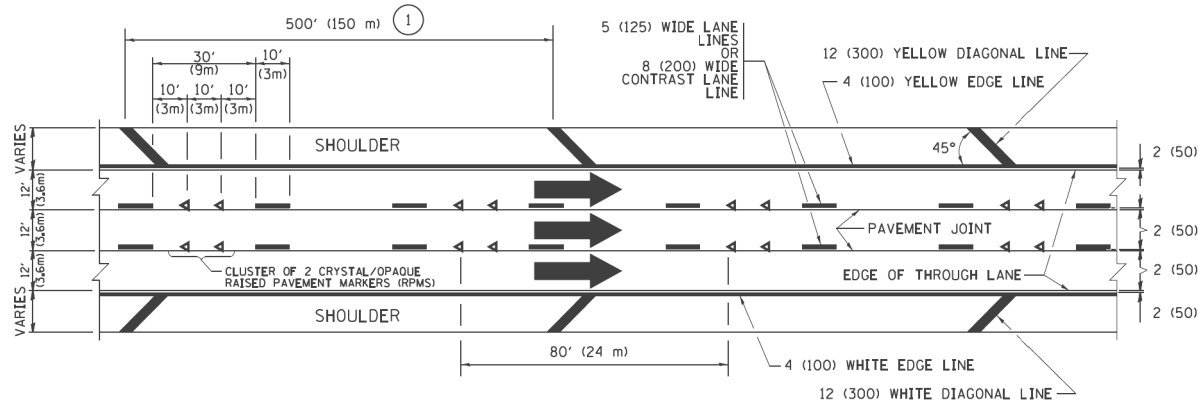


* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

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

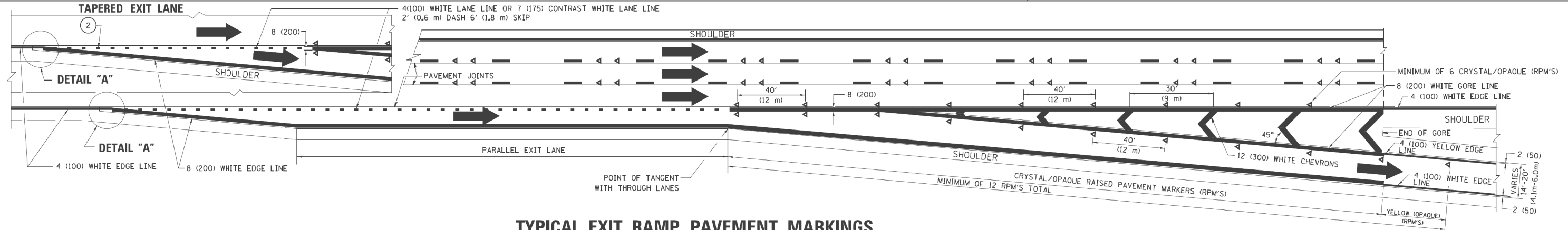
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ca:\pki\work\pki\dot\luyso\d0108315\td11.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99					344	2017-024I	VARIES +	38	33
		CHECKED -	REVISED - T. RAMMACHER 01-06-00		TC-11			CONTRACT NO. 62F20				
		DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT	HSP-R0MN909



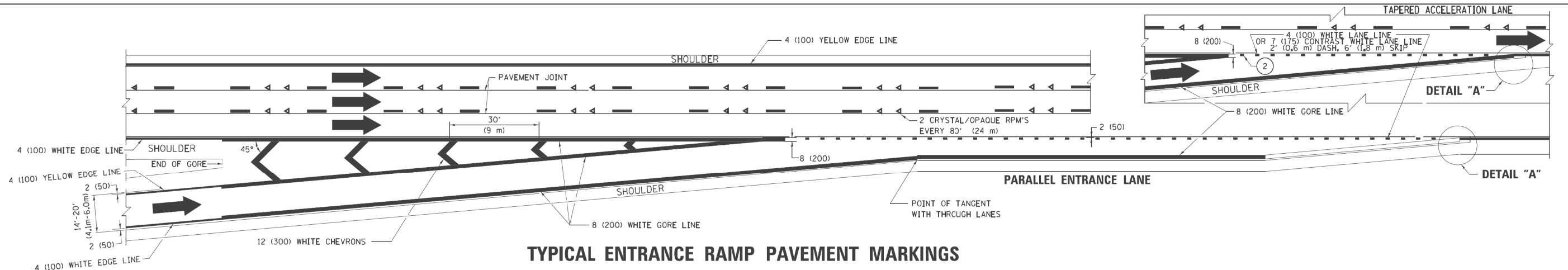
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

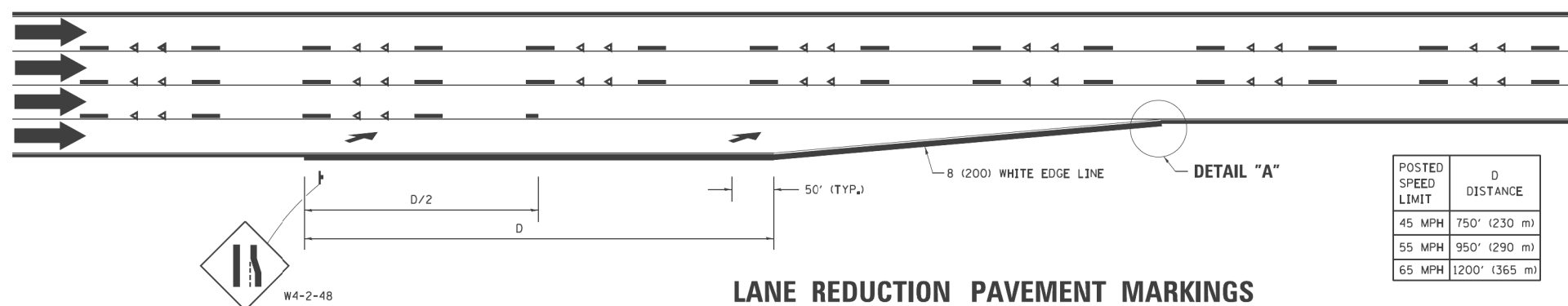
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



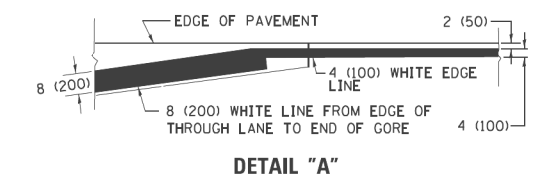
TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



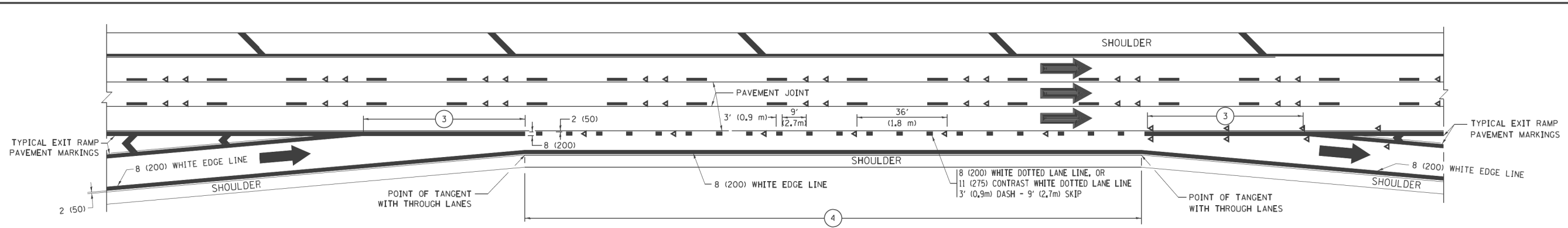
LANE REDUCTION PAVEMENT MARKINGS



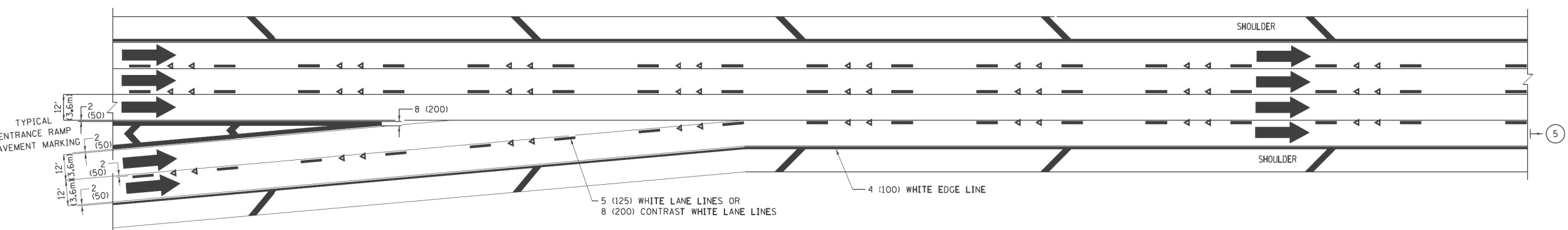
NOTES:

- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
- ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

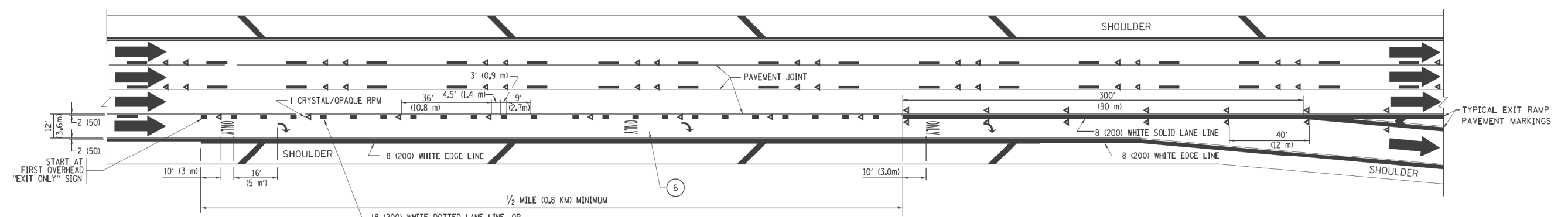
POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



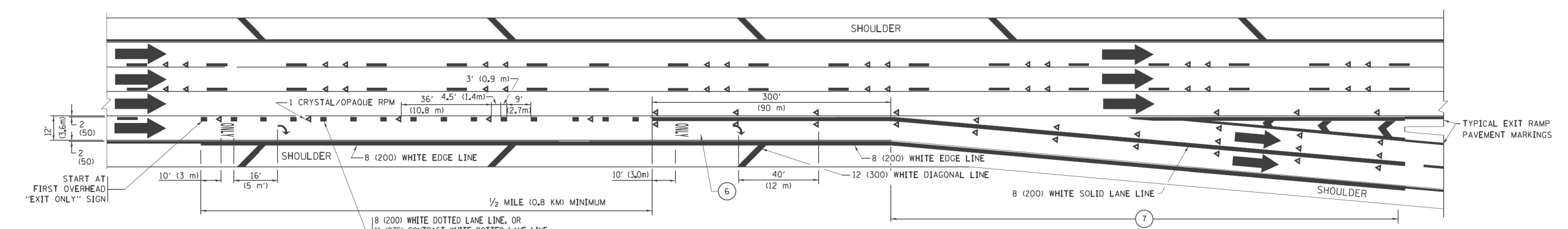
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



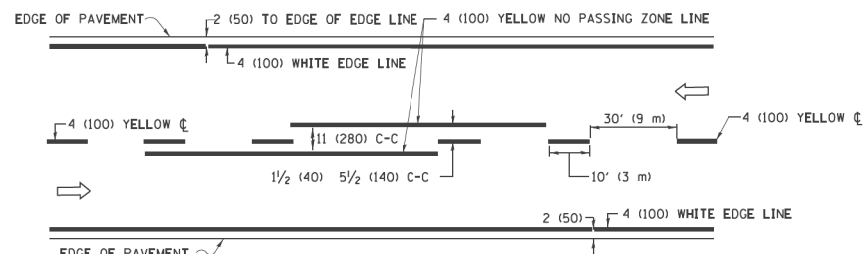
EXIT ONLY LANE MARKINGS



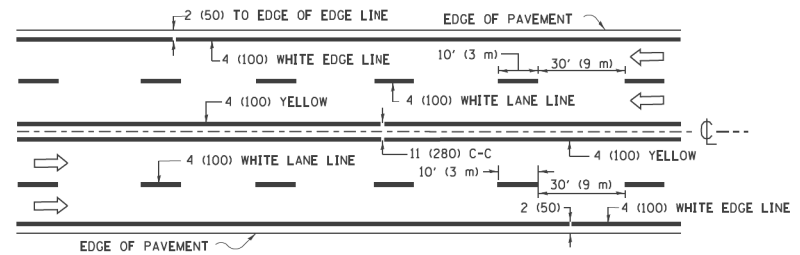
EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES:**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

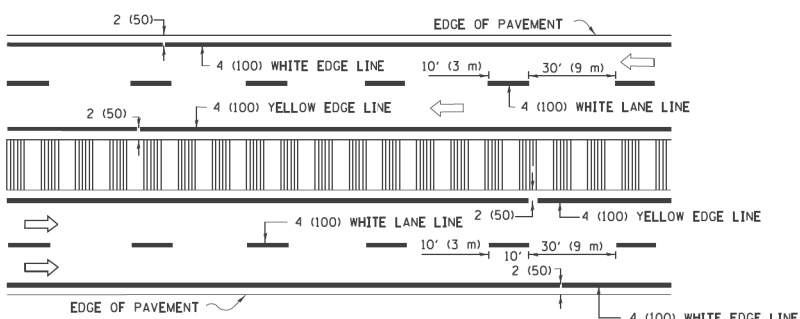
FILE NAME =	USER NAME = footemj	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLT SCALE = 50,000' / in.	CHECKED -	REVISED - S.P.B. 01-07					344	2017-024I	VARIABLE	38	35
	PLT DATE = 9/6/2017	DATE - 01-90	REVISED - S.P.B. 01-10		TC-12B			CONTRACT NO. 62F20				
			REVISED - M.D. 09-17		SCALE: NONE	SHEET 2	OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT HSIP-ROMN909		



2-LANE ROADWAY

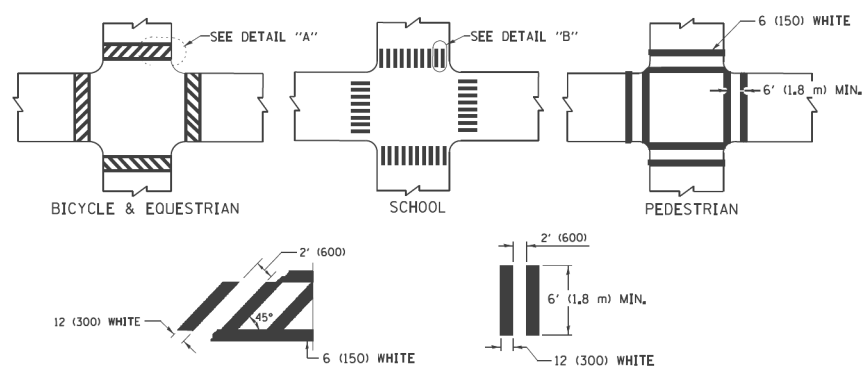


MULTI-LANE UNDIVIDED



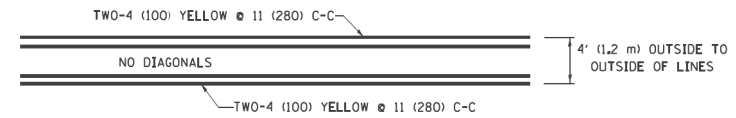
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

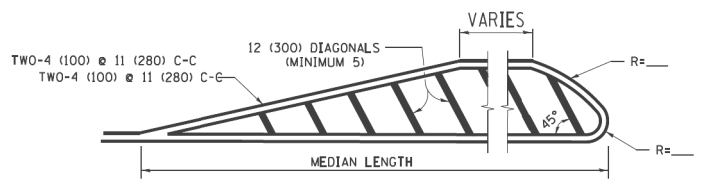


TYPICAL CROSSWALK MARKING

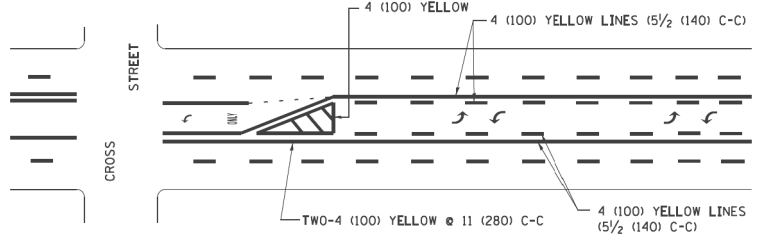
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



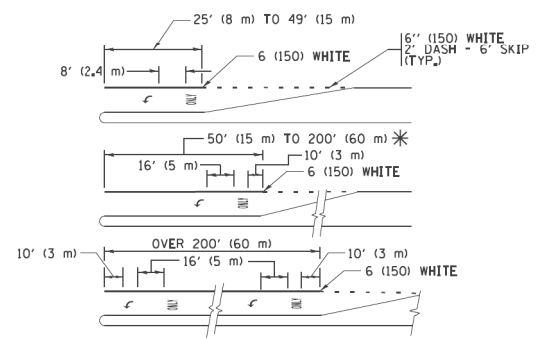
4' (1.2 m) WIDE MEDIANS ONLY



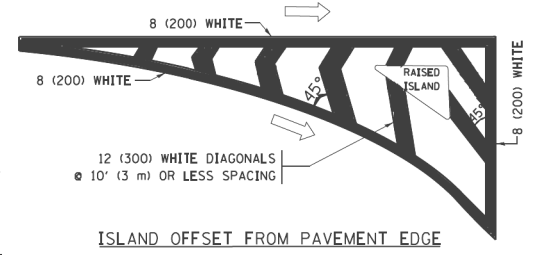
MEDIANS OVER 4' (1.2 m) WIDE



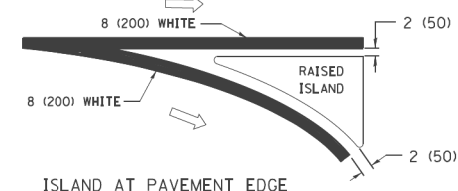
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



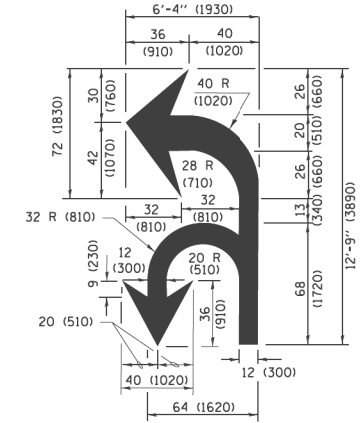
TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING



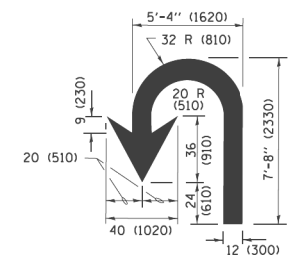
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS; 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME = W:\dststd\22x34\td13.dgn	USER NAME = lryss	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
Default	PLOT SCALE = 50,000 / 1"=100'	DRAWN -	REVISED - C. JUCIUS 07-01-13
	PLOT DATE = 6/23/2017	CHECKED -	REVISED - C. JUCIUS 12-21-15
		DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

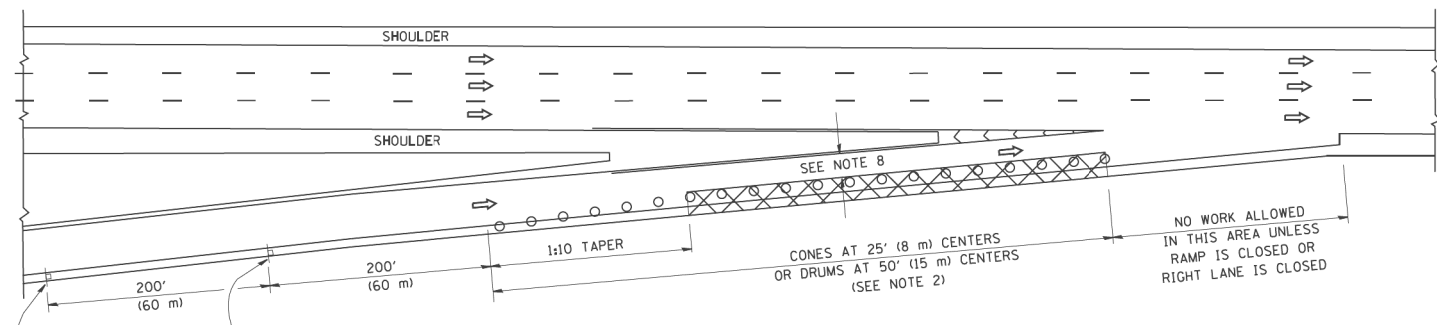
DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.
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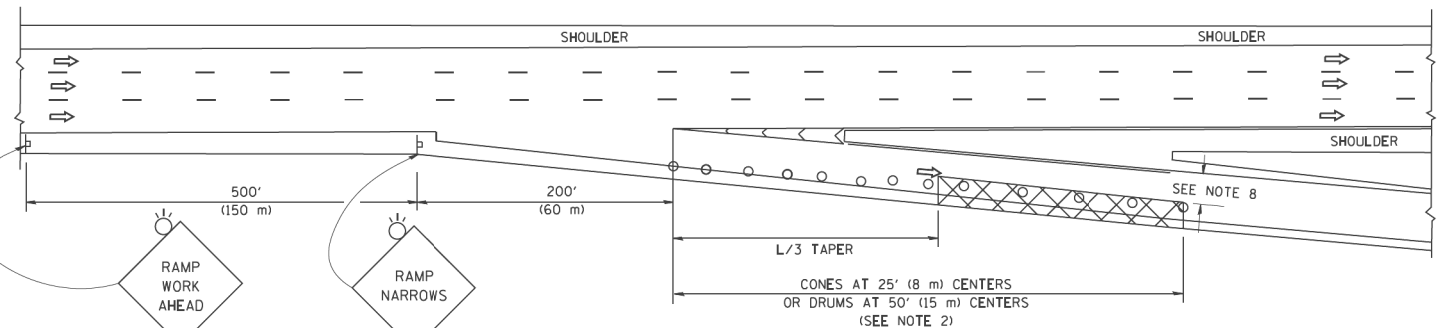
F.A.P. RTE. 344	SECTION 2017-024I	COUNTY VARIES +	TOTAL SHEETS 38	SHEET NO. 36
TC-13		CONTRACT NO. 62F20		
ILLINOIS FED. AID PROJECT HSIP-ROMN(909)				

PARTIAL RAMP CLOSURE DETAILS

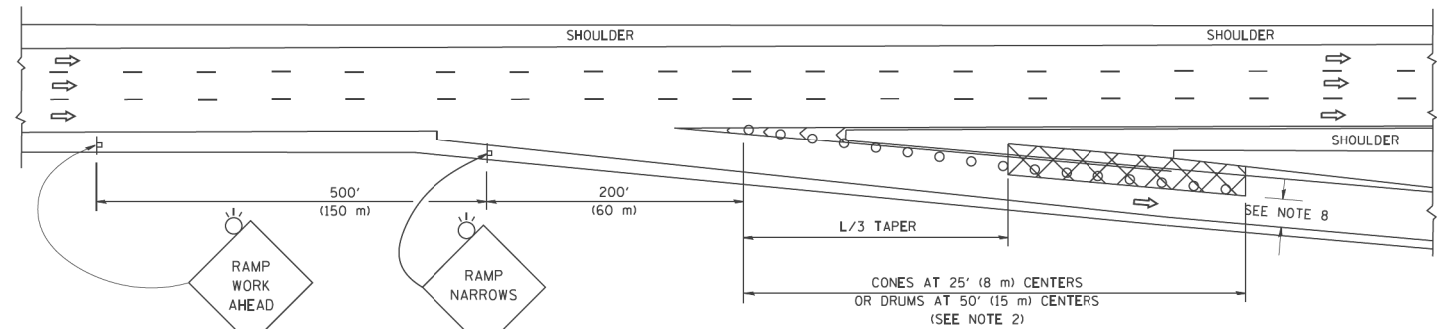
SHOULDER CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

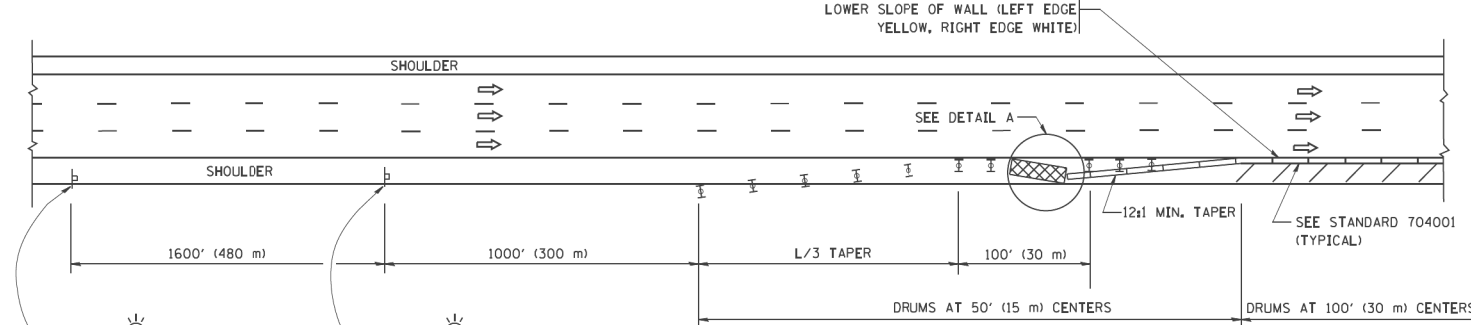
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

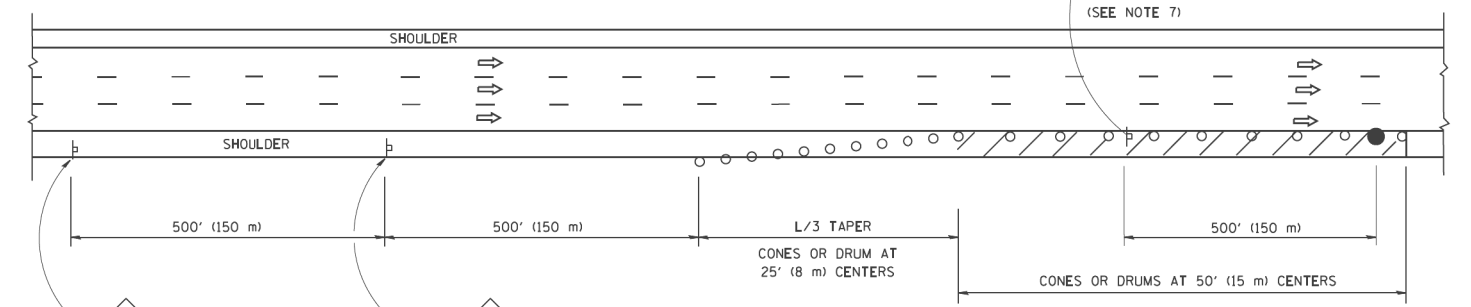
1. THE "L" DISTANCE EQUALS:

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

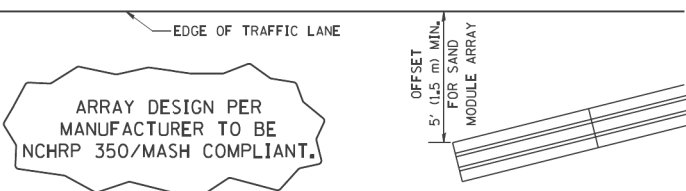
W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

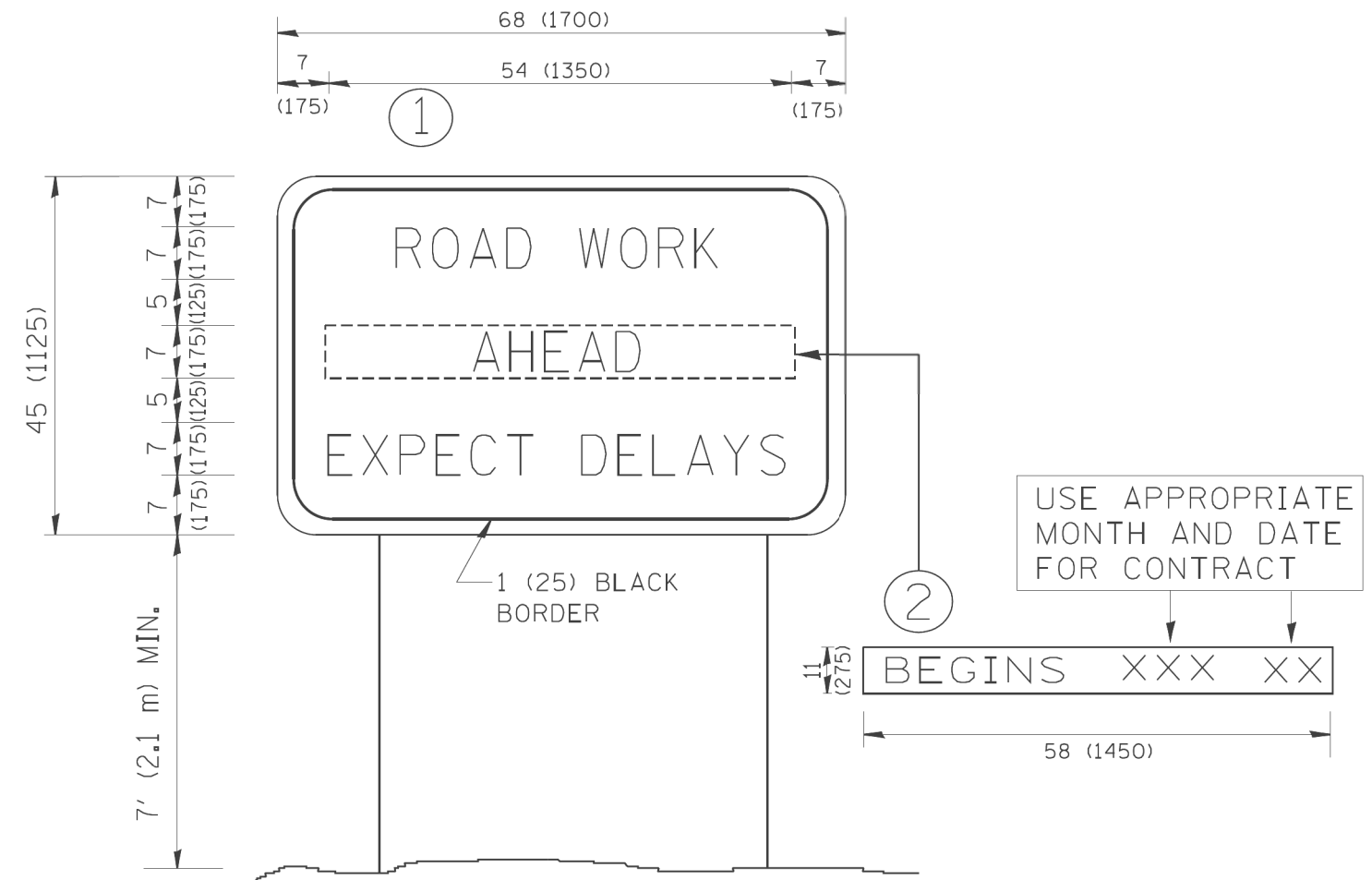


DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

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

FILE NAME =	USER NAME = foatemj	DESIGNED -	REVISED - S.P.B. 01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED - S.P.B. 12-09			344	2017-024I	VARIES +	38	37	
		CHECKED -	REVISED - M.D. 06-13			TC-17		CONTRACT NO. 62F20			
		DATE - 11-96	REVISED - M.D. 01-18			SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gegl1enobt	DESIGNED -	REVISED - R, MIRS 09-15-97
		DRAWN -	REVISED - R, MIRS 12-11-97
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C, JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2017-024I	VARIES +	38	38
TC-22			CONTRACT NO. 62F20	
<small>ILLINOIS FED. AID PROJECT HSIP-ROMN909</small>				