

06-16-2023 LETTING ITEM 005

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2672	21-00190-00-RS	KANE	50	1
		ILLINOIS	CONTRACT NO. 61J44	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**
HIGHLAND AVENUE, COOMBS ROAD
AND McDONALD ROAD
RESURFACING AND SIDEWALK IMPROVEMENTS
SECTION 21-00190-00-RS
PROJECT NO. KWJ7(522)
CITY OF ELGIN
KANE COUNTY
JOB NO. C-91-142-22



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

**TRAFFIC DATA
COOMBS ROAD**

ADT = 6,350 (2018)
POSTED SPEED LIMIT = 45 MPH
FUNCTIONAL CLASSIFICATION = LOCAL RURAL

HIGHLAND AVENUE

ADT = 2,500
POSTED SPEED LIMIT = 30 MPH AND 35 MPH
FUNCTIONAL CLASSIFICATION = MAJOR COLLECTOR

McDONALD ROAD

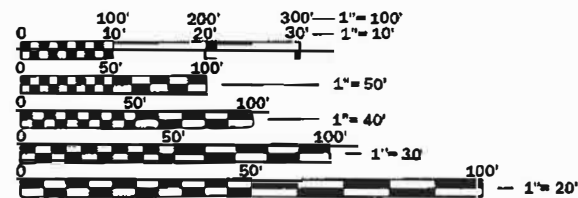
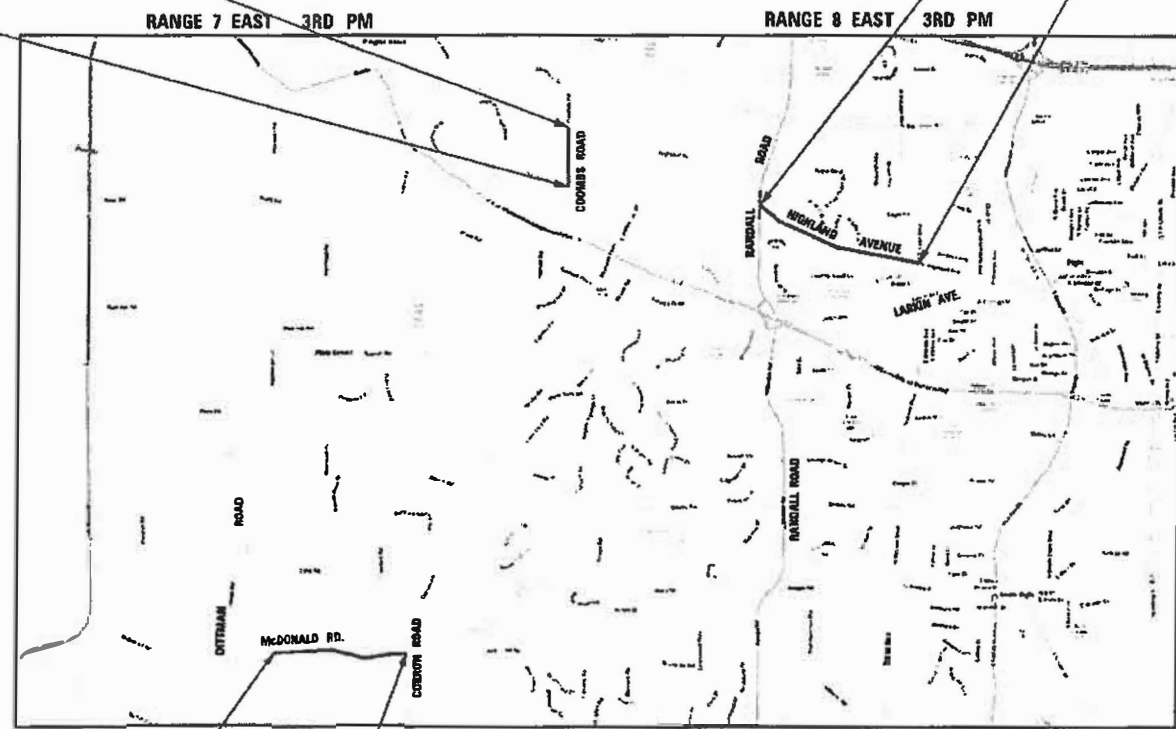
ADT = 1,200
POSTED SPEED LIMIT = 45 MPH
FUNCTIONAL CLASSIFICATION = PRINCIPAL ARTERIAL

END IMPROVEMENT
STA. 45+38.38

BEGIN IMPROVEMENT
STA. 15+65

BEGIN IMPROVEMENT
STA. 50+50

END IMPROVEMENT
STA. 137+41



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

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

BEGIN IMPROVEMENT
STA. 122+40

END IMPROVEMENT
STA. 190+91

LOCATION MAP

NET AND GROSS LENGTHS
GROSS: HIGHLAND AVE. = 8,691 FT. = 1.65 MILES
NET: HIGHLAND AVE. = 8,640 FT. = 1.64 MILES
GROSS: COOMBS RD. = 2,974 FT. = 0.56 MILES
NET: COOMBS RD. = 2,974 FT. = 0.56 MILES
GROSS: McDONALD RD. = 6,851 FT. = 1.30 MILES
NET: McDONALD RD. = 6,851 FT. = 1.30 MILES

FEDERAL AID ENGINEER: CARMEN E. RAMOS, P.E. SCHAUMBURG, IL

PROJECT ENGINEER: JEFFREY A. MEINDL, P.E.
PROJECT MANAGER: RANDAL G. NEWKIRK, P.E.

CONTRACT NO. 61J44



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED *[Signature]* 20 23
CITY OF ELGIN, PUBLIC WORKS DIRECTOR

PASSED *[Signature]* 20 23
DISTRICT 1 ENGINEER OF LOCAL ROADS

RELEASING FOR BID
BASED ON LIMITED
REVIEW *[Signature]* 20 23
REGIONAL ENGINEER

DATE: 1-11-2023

BY: *[Signature]*

LICENSE NO. 062-054021

LICENSE EXPIRES: 11-30-2023



Hampton, Lenzi and Renwick, Inc.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
847.697.6700 www.hlrengineering.com

PROJECT NUMBER 21.0769.3300 DATE: 1/9/2023

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, LEGEND
3-5	SUMMARY OF QUANTITIES
6	TYPICAL SECTIONS, COOMBS ROAD
7	TYPICAL SECTIONS, HIGHLAND AVENUE
8	TYPICAL SECTIONS, McDONALD ROAD
9-11	ALIGNMENT, BENCHMARKS, AND CONTROL POINTS
12	SCHEDULES OF QUANTITIES, COOMBS ROAD
13-14	SCHEDULES OF QUANTITIES, HIGHLAND AVENUE
15	SCHEDULES OF QUANTITIES, McDONALD ROAD
16-18	PLAN AND PAVEMENT MARKING SHEETS, COOMBS ROAD
19-26	PLAN AND PAVEMENT MARKING SHEETS, HIGHLAND AVENUE
27-33	PLAN AND PAVEMENT MARKING SHEETS, McDONALD ROAD
34-40	INTERSECTION DETAILS
41-50	DISTRICT 1 DETAILS

GENERAL NOTES

ALL WORK SHALL BE IN ACCORDANCE WITH THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED JANUARY 1, 2022, (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS); THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," ADOPTED JANUARY 1, 2023; "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS"; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

THE CONTRACTOR SHALL COOPERATE WITH THE CITY OF ELGIN IF ANY MUNICIPAL UTILITY IMPROVEMENTS ARE REQUIRED WITHIN THE DURATION OF THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT OR PROTECTION IS NECESSARY.

THE LOCATION ON THE PLANS OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC AND PRIVATE UTILITIES IS APPROXIMATE AND THEIR EXACT LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.

ALL ELEVATIONS ARE NAVD88 DATUM.

WHENEVER ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS GENERATED FROM CONSTRUCTION OPERATIONS.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN IN AN OPERATING CONDITION TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS AND CATCH BASINS.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR HIS WORK. ANY WORK THAT IS VANDALIZED OR OTHERWISE DAMAGED AND JUDGED UNACCEPTABLE BY THE ENGINEER SHALL BE REMOVED AND REPLACED.

FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) TO HAVE THE LOCATION OF EXISTING UTILITIES STAKED.

THE CONTRACTOR SHALL MAKE ANY MODIFICATIONS NECESSARY TO THE DETECTABLE WARNING PANELS TO FIT THE LOCATIONS OF EXISTING UTILITY STRUCTURES INCLUDING, BUT NOT LIMITED TO, GAS VALVES AND WATER VALVES.

EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PLACED ACCORDING TO THE SCHEDULES CONTAINED HEREIN OR AS DIRECTED BY THE ENGINEER.

ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE BACK OF CURB

STRUCTURE LOCATIONS GIVEN ON THE PLANS ARE AS FOLLOWS:
 A) FOR STRUCTURES FALLING IN THE CURB AND GUTTER - TO THE BACK OF CURB.
 B) FOR OTHER LOCATIONS - TO THE CENTER OF THE STRUCTURE

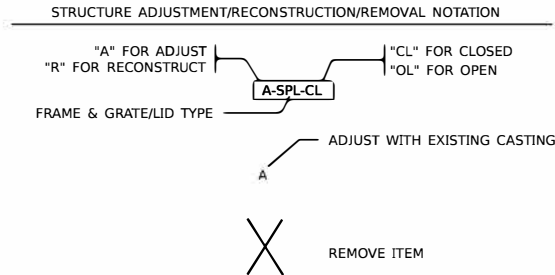
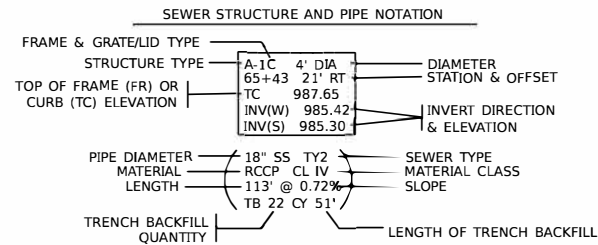
CONTRACTOR SHALL TAKE CAUTION BY PRESERVING EXISTING TREES WITHIN THE RIGHT-OF-WAY. IF ANY DAMAGE OCCURS, TREES SHALL BE REPLACED IN KIND PER ARTICLE 201.07 REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL REQUIREMENTS STATED HEREIN.

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-05	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701336-07	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS > 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES

COMMITMENTS

NONE



LEGEND

	EXISTING BUSH
	EXISTING DECIDUOUS TREE & DIAMETER
	EXISTING EVERGREEN TREE & DIAMETER
	EXISTING DRAINAGE MANHOLE
	PROPOSED DRAINAGE MANHOLE
	PROPOSED CATCH BASIN
	PROPOSED INLET
	EXISTING STORM SEWER
	PROPOSED STORM SEWER
	EXISTING UNDERGROUND GAS
	EXISTING UNDERGROUND TELEPHONE
	EXISTING AERIAL POWER LINE
	EXISTING UNDERGROUND CABLE TV
	EXISTING SANITARY SEWER
	EXISTING WATERMAIN
	EXISTING ROW
	EXISTING LIGHT STANDARD
	EXISTING HANDHOLE
	MAIL BOX
	EXISTING UTILITY POLE
	DOMESTIC WATER SERVICE BOX
	CLASS D PATCH, 4"
	SIDEWALK REMOVAL
	DETECTABLE WARNINGS
	TOPSOIL AND SODDING, SALT TOLERANT
	EXISTING SIGN
	PROPOSED SIGN
	EXISTING ELEVATION
	PROPOSED ELEVATION

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HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000059	USER NAME = jmeindl	DESIGNED -	REVISED - 12/19/18 (IDOT COMMENTS)	CITY OF ELGIN 1900 HOLMES ROAD ELGIN, IL 60123	INDEX OF SHEETS, GENERAL NOTES & LEGEND				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	CHECKED -	REVISED -						0170	21-00190-00-RS	KANE	50	2
	PLOT SCALE = 2.0000' / in.	DATE -	REVISED -						CONTRACT NO. 61J44				
PLOT DATE = 4/21/2023				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT		

SPECIAL PROVISION	SPECIALTY ITEM	ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	COOMBS ROAD 75% FED, 25% LOCAL CONSTRUCTION CODE			HIGHLAND AVENUE 75% FED, 25% LOCAL CONSTRUCTION CODE			McDONALD ROAD 75% FED, 25% LOCAL CONSTRUCTION CODE			
						0005 RESURFACIN G	0021 SAFETY	0042 TRAINEES	0005 RESURFACIN G	0021 SAFETY	0042 TRAINEES	0005 RESURFACIN G	0021 SAFETY	0042 TRAINEES	
		21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	143				143						
		25200110	SODDING, SALT TOLERANT	SQ YD	143				143						
		25200200	SUPPLEMENTAL WATERING	UNIT	8				8						
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	5				5						
		28000510	INLET FILTERS	EACH	8				8						
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	36,094	6,887			19,497			11,710			
		40600370	LONGITUDINAL JOINT SEALANT	FOOT	19,870	3,454			9,565			6,851			
		40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	50	10			25			15			
		40602978	HOT-MIX ASPHALT BINDER COURSE, IL- 9.5, N50	TON	4,740	857			2,426			1,457			
		40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	4,740	857			2,426			1,457			
		42400360	DETECTABLE WARNINGS	SQ FT	159				159						
		44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	56,436	10,203			28,895			17,348			
		44000600	SIDEWALK REMOVAL	SQ FT	1,456				1,456						
		44201690	CLASS D PATCHES, TYPE I, 4 INCH	SQ YD	1,050	150			600			300			
		44201692	CLASS D PATCHES, TYPE II, 4 INCH	SQ YD	1,050	150			600			300			
		44201694	CLASS D PATCHES, TYPE III, 4 INCH	SQ YD	1,100	200			600			300			

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HAMPTON, LENZINI AND RENWICK, INC.
 300 CHRYSLER DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS - PE TEL. COMP. 184.62293

USER NAME = jmelnd	DESIGNED -	REVISED -
PLOT SCALE = 2.0000 1/ in.	DRAWN -	REVISED -
PLOT DATE = 1/13/2023	CHECKED -	REVISED -
	DATE -	REVISED -

CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

SUMMARY OF QUANTITIES

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-R5	KANE	50	3
CONTRACT NO. 61544			ILLINOIS FED. AID PROJECT	

SPECIAL PROVISION	SPECIALTY ITEM	ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	COOMBS ROAD 75% FED, 25% LOCAL CONSTRUCTION CODE			HIGHLAND AVENUE 75% FED, 25% LOCAL CONSTRUCTION CODE			McDONALD ROAD 75% FED, 25% LOCAL CONSTRUCTION CODE		
						0005 RESURFACIN G	0021 SAFETY	0042 TRAINEES	0005 RESURFACIN G	0021 SAFETY	0042 TRAINEES	0005 RESURFACIN G	0021 SAFETY	0042 TRAINEES
		44201696	CLASS D PATCHES, TYPE IV, 4 INCH	SQ YD	2,300	500			1,000			800		
		48102100	AGGREGATE WEDGE SHOULDERS, TYPE B	TON	678	119			294			265		
		60266600	VALVE BOXES TO BE ADJUSTED	EACH	4				4					
		67100100	MOBILIZATION	L SUM	1	0.33			0.33			0.33		
		70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.33			0.33			0.33		
		70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.33			0.33			0.33		
		70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	0.33			0.33			0.33		
		70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.33			0.33			0.33		
		70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.25			0.75					
		70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1				1.00					
		70107025	CHANGEABLE MESSAGE SIGN	CAL DA	42	14			14			14		
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	17,500	3,500			8,000			6,000		
		70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	5,825	1,160			2,665			2,000		
	*	78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	487.9		72.8		387.0			28.1		
	*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	66,676		13,667		29,104			23,905		
	*	78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	2,238		400		1,838					

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HAMPTON, LENZINI AND RENWICK, INC.
 260 S. SPRING DRIVE
 ELGIN, ILLINOIS 60120
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS - PE / EE COMP. 184.000019

USER NAME = jmelndi	DESIGNED -	REVISED -
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PLOT DATE = 4/21/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**CITY OF ELGIN
 1900 HOLMES ROAD
 ELGIN, IL 60123**

SUMMARY OF QUANTITIES

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	4
CONTRACT NO. 61544			ILLINOIS FED. AID PROJECT	

SPECIAL PROVISION	SPECIALTY ITEM	ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	COOMBS ROAD 75% FED, 25% LOCAL CONSTRUCTION CODE			HIGHLAND AVENUE 75% FED, 25% LOCAL CONSTRUCTION CODE			McDONALD ROAD 75% FED, 25% LOCAL CONSTRUCTION CODE		
						0005 RESURFACIN G	0021 SAFETY	0042 TRAINEES	0005 RESURFACIN G	0021 SAFETY	0042 TRAINEES	0005 RESURFACIN G	0021 SAFETY	0042 TRAINEES
	*	78001140	PAINT PAVEMENT MARKING - LINE 8"	FOOT	88					88				
	*	78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	1,078		253			825				
	*	78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	257		14			213		30		
		78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	368	81			287					
*	*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	802				802					
*		X4240430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	1,508				1,508					
*		X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO .10 FEET	FOOT	219				219					
*		X6022900	CATCH BASINS TO BE RECONSTRUCTED (SPECIAL)	EACH	1				1					
*		X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	1				1					
*		X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	19				19					
*	*	X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	407		120			287				
*		XX006821	CONCRETE TRUCK WASHOUT	LSUM	1				1					
*		XX006947	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT	SQ YD	1,988	158			1,410		420			
*		Z0013798	CONSTRUCTION LAYOUT	LSUM	1	0.33			0.33		0.34			
*		Z0076500	TRAINEES	HOUR	500			100		200			200	
*		Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500			100		200			200	

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HAMPTON, LENZINI AND RENWICK, INC.
 340 SHEPARD DRIVE
 ELGIN, ILLINOIS 60120
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LB / PE / SE COMP. 184.000938

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 PLOT DATE = 1/13/2023

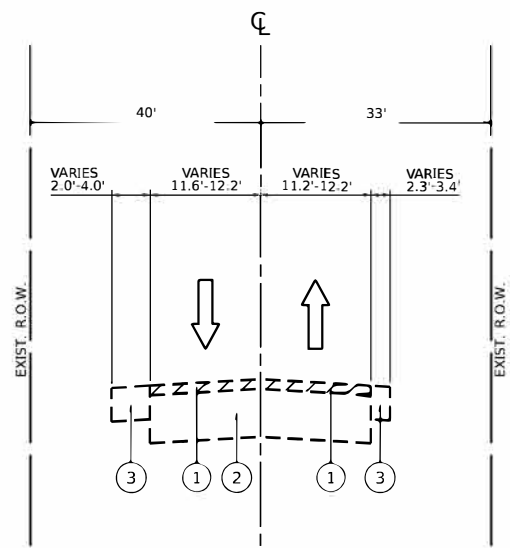
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CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

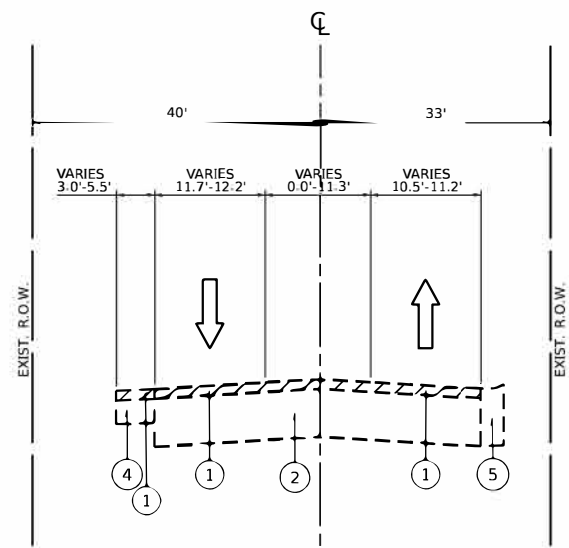
SUMMARY OF QUANTITIES

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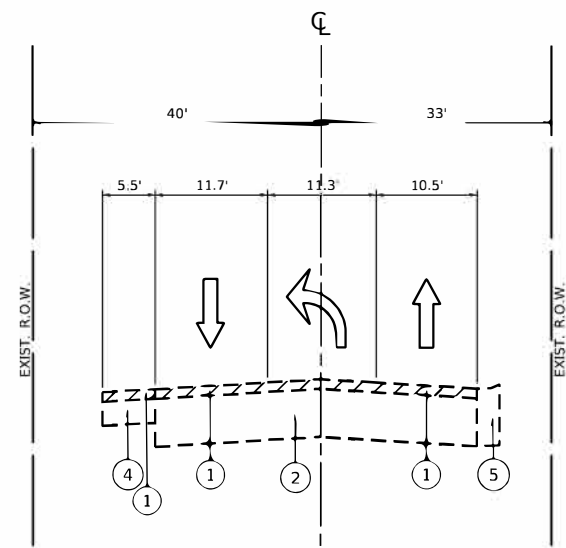
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CONTRACT NO. 61544			ILLINOIS FED. AID PROJECT	



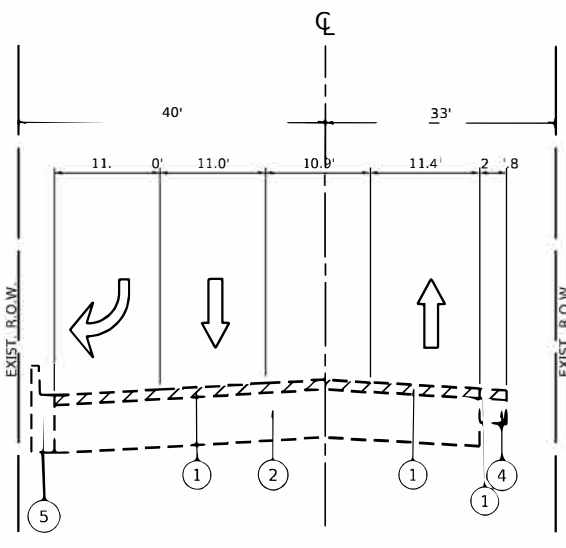
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STA 15+65 TO 27+26
STA 40+46 TO 45+38**



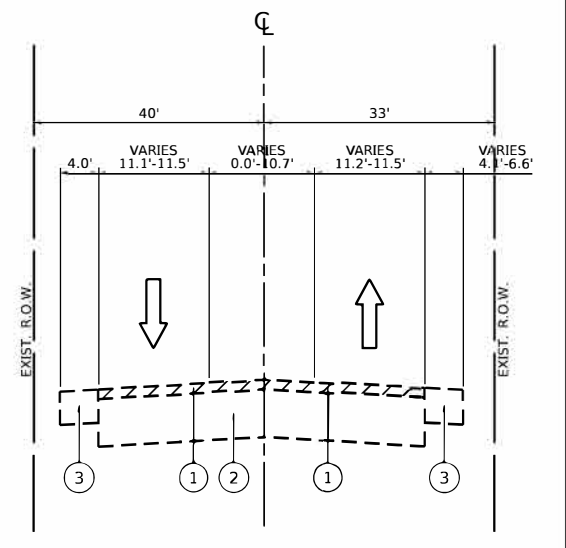
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STA 27+26 TO 29+96**



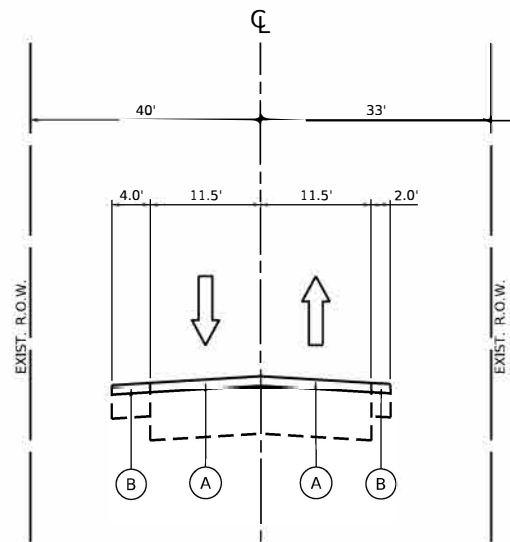
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EXISTING TYPICAL SECTION
STA 29+96 TO 33+26**



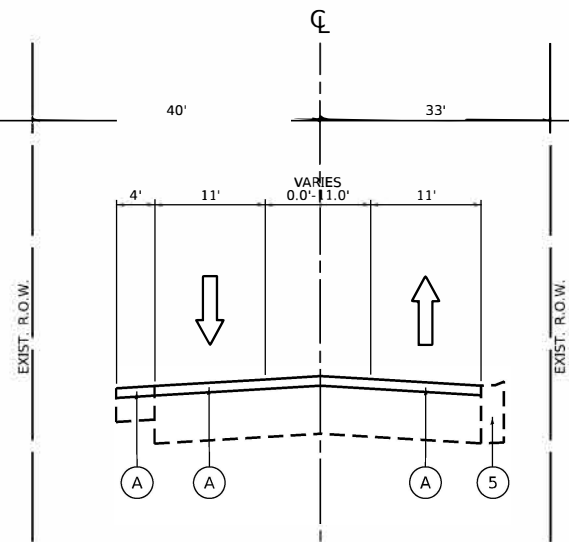
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EXISTING TYPICAL SECTION
STA 34+38 TO 39+35**



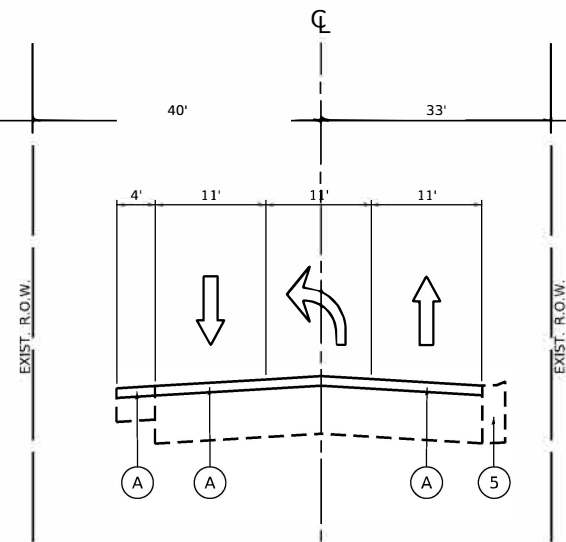
**COOMBS ROAD
EXISTING TYPICAL SECTION
STA 39+35 TO 45+38**



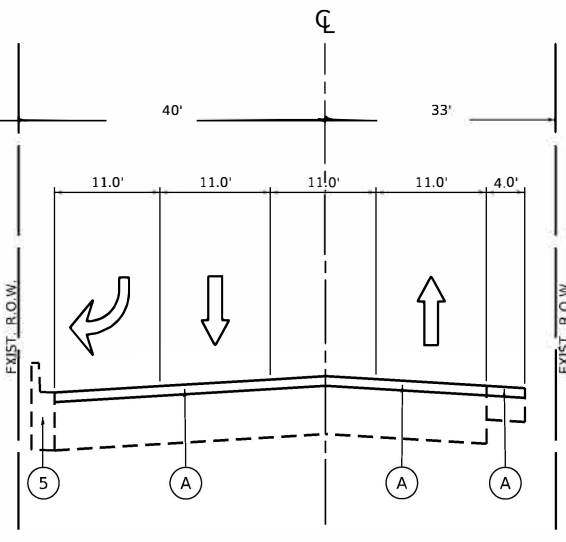
**COOMBS ROAD
PROPOSED TYPICAL SECTION
STA 15+65 TO 27+26
STA 40+46 TO 45+38**



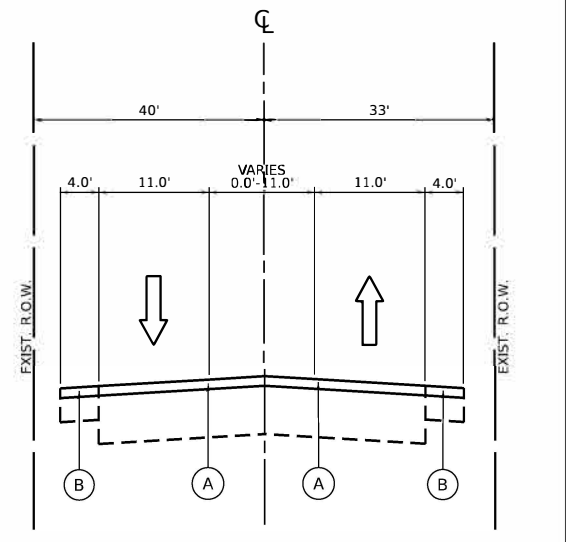
**COOMBS ROAD
PROPOSED TYPICAL SECTION
STA 27+26 TO 29+96**



**COOMBS ROAD
PROPOSED TYPICAL SECTION
STA 29+96 TO 33+26**



**COOMBS ROAD
PROPOSED TYPICAL SECTION
STA 34+38 TO 39+35**



**COOMBS ROAD
PROPOSED TYPICAL SECTION
STA 39+35 TO 45+38**

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

USE	MIXTURE TYPE	AIR VOIDS	QMP
MAINLINE AND SHOULDER RESURFACING	HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 1.5"	4% @ 50 GYR.	LR 1030-2
	HMA BINDER COURSE, IL-9.5, N50, 1.5"	4% @ 50 GYR.	LR 1030-2
PATCHING	CLASS D PATCHES (HMA BINDER IL-19.0, N50)	4% @ 50 GYR.	LR 1030-2
HMA DRIVEWAY REMOVAL AND REPLACEMENT	HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 1.5"	4% @ 50 GYR.	LR 1030-2
	HMA BINDER COURSE, IL-9.5, N50, 1.5"	4% @ 50 GYR.	LR 1030-2

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER LR1030-2

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
 THE AC TYPE FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE AC TYPE SHALL BE "PG 64-22", UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.
 THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE HMA BINDER COURSE, IL-9.5, N50.

EXISTING LEGEND

- ① EXISTING HMA PAVEMENT SURFACE REMOVAL, 3"
- ② EXISTING SUBGRADE
- ③ EXISTING AGGREGATE SHOULDER
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING CURB AND GUTTER

PROPOSED LEGEND

- (A) PROPOSED HMA SURFACE COURSE, IL-9.5, MIX D, N50, 1.5"
HMA BINDER COURSE, IL-9.5, N50, 1.5"
- (B) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B

REMOVAL LEGEND

REMOVAL ITEM

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HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184-000059

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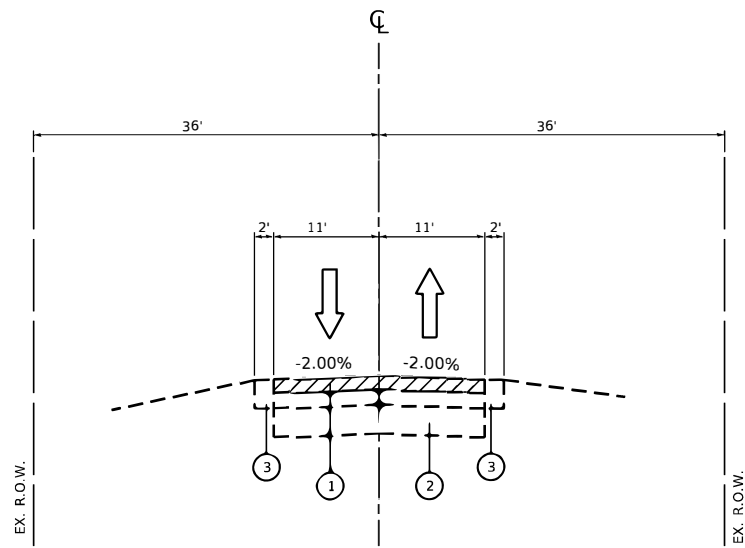
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**CITY OF ELGIN
 1900 HOLMES ROAD
 ELGIN, IL 60123**

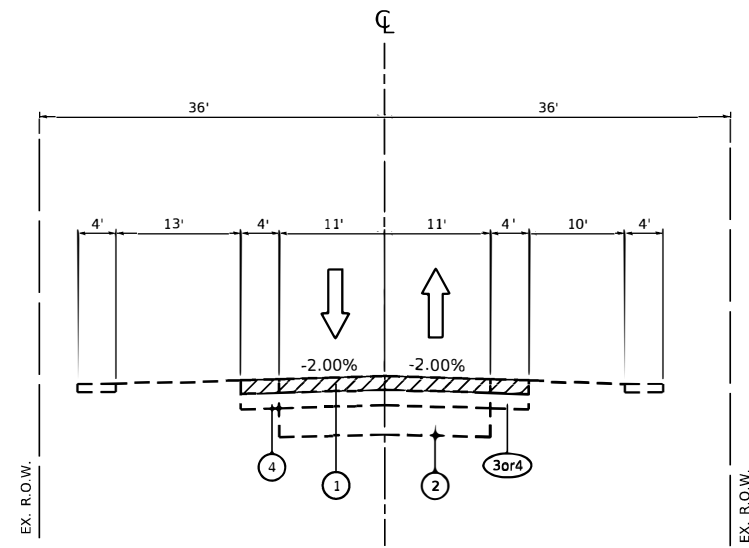
**COOMBS ROAD
 TYPICAL SECTIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

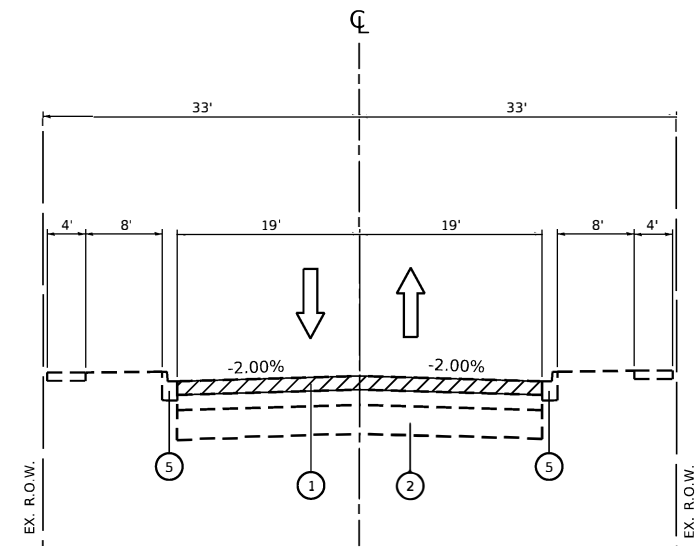
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0170	21-00190-00-RS	KANE	50	6
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				



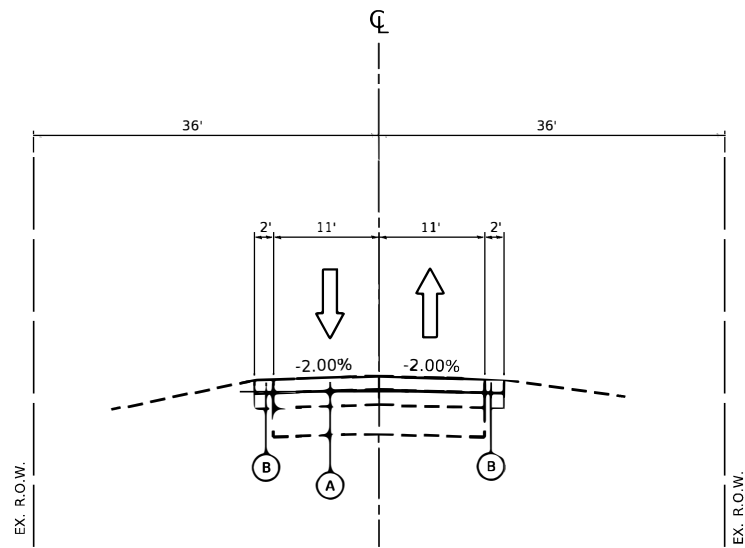
EXISTING TYPICAL SECTION
STA 50+50 TO STA 122+25
 (RANDALL ROAD TO HOXIE AVENUE)



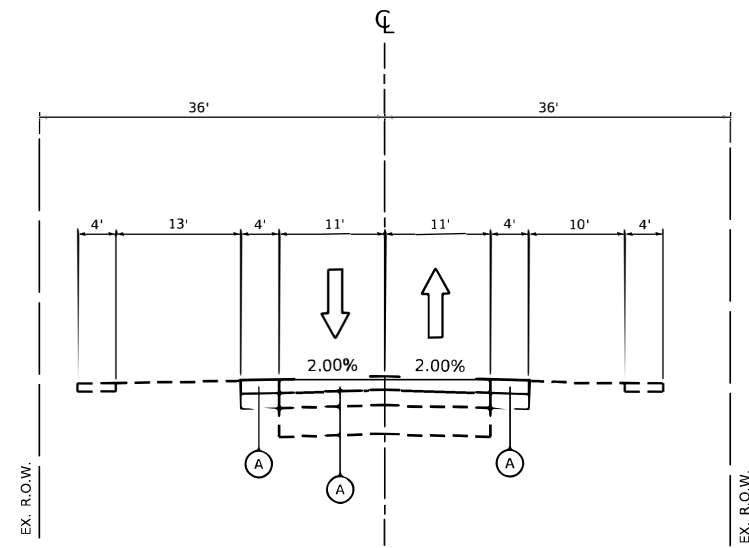
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STA 122+25 TO STA 132+35
 (HOXIE AVENUE TO HEINE AVENUE)



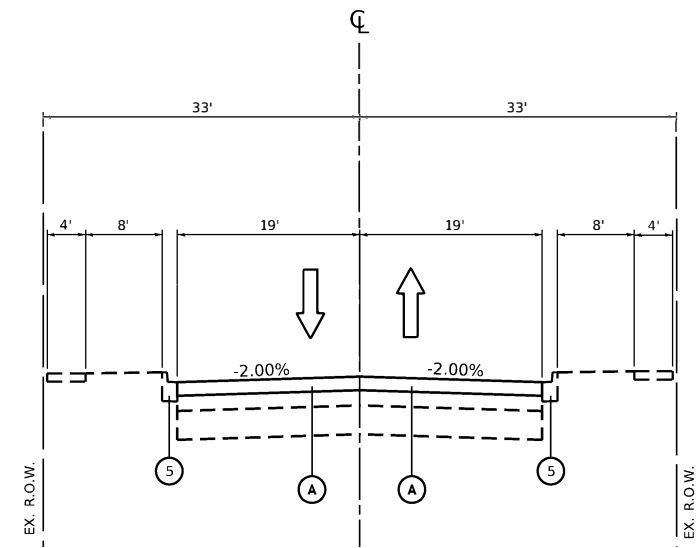
EXISTING TYPICAL SECTION
STA 132+35 TO STA 137+41
 (HEINE AVENUE TO McLEAN AVENUE)



PROPOSED TYPICAL SECTION
STA 50+50 TO STA 122+25
 (RANDALL ROAD TO HOXIE AVENUE)



PROPOSED TYPICAL SECTION
STA 122+25 TO STA 132+35
 (HOXIE AVENUE TO HEINE AVENUE)



PROPOSED TYPICAL SECTION
STA 132+35 TO STA 137+41
 (HEINE AVENUE TO McLEAN AVENUE)

EXISTING LEGEND

- ① EXISTING HMA PAVEMENT SURFACE REMOVAL, 3"
- ② EXISTING SUBGRADE
- ③ EXISTING AGGREGATE SHOULDER
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING CURB AND GUTTER

PROPOSED LEGEND

- Ⓐ PROPOSED HMA SURFACE COURSE, IL-9.5, MIX D, N50, 1.5" HMA BINDER COURSE, IL-9.5, N50, 1.5"
- Ⓑ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B

REMOVAL LEGEND

REMOVAL ITEM

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HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000959

USER NAME = jmeindl
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 1/13/2023

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

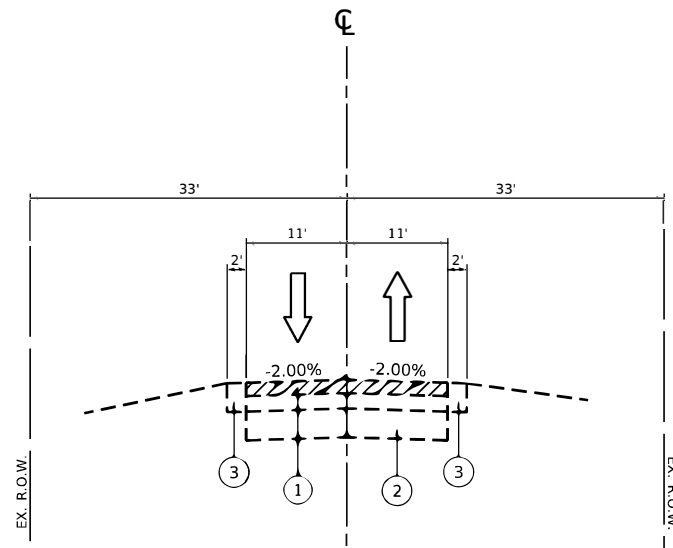
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CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

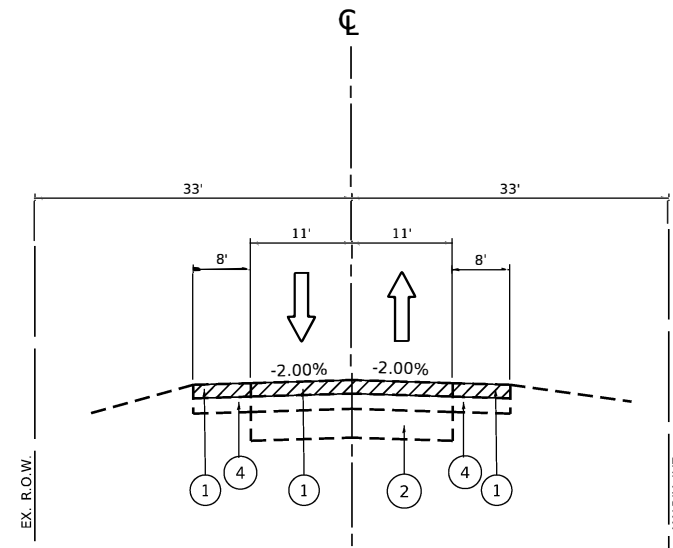
HIGHLAND AVENUE
TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

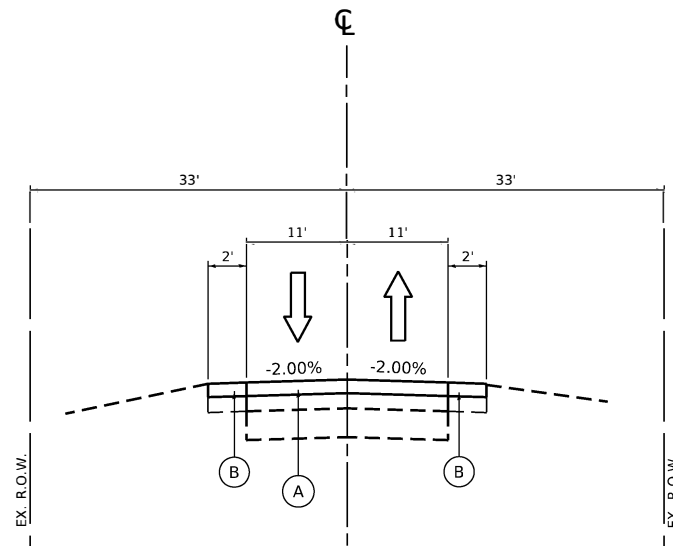
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-R5	KANE	50	7
				CONTRACT NO. 61J44
ILLINOIS FED. AID PROJECT				



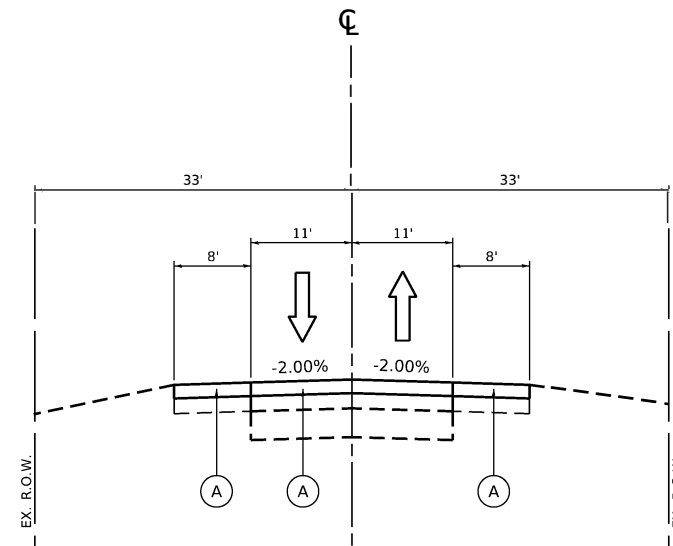
**EXISTING TYPICAL SECTION
STA. 122 + 40 TO STA. 188 + 57**



**EXISTING TYPICAL SECTION
STA. 188 + 57 TO STA. 190 + 91**



**PROPOSED TYPICAL SECTION
STA. 122 + 40 TO STA. 188 + 57**



**PROPOSED TYPICAL SECTION
STA. 188 + 57 TO STA. 190 + 91**

EXISTING LEGEND

- ① EXISTING HMA PAVEMENT SURFACE REMOVAL, 3"
- ② EXISTING SUBGRADE
- ③ EXISTING AGGREGATE SHOULDER
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING CURB AND GUTTER

PROPOSED LEGEND

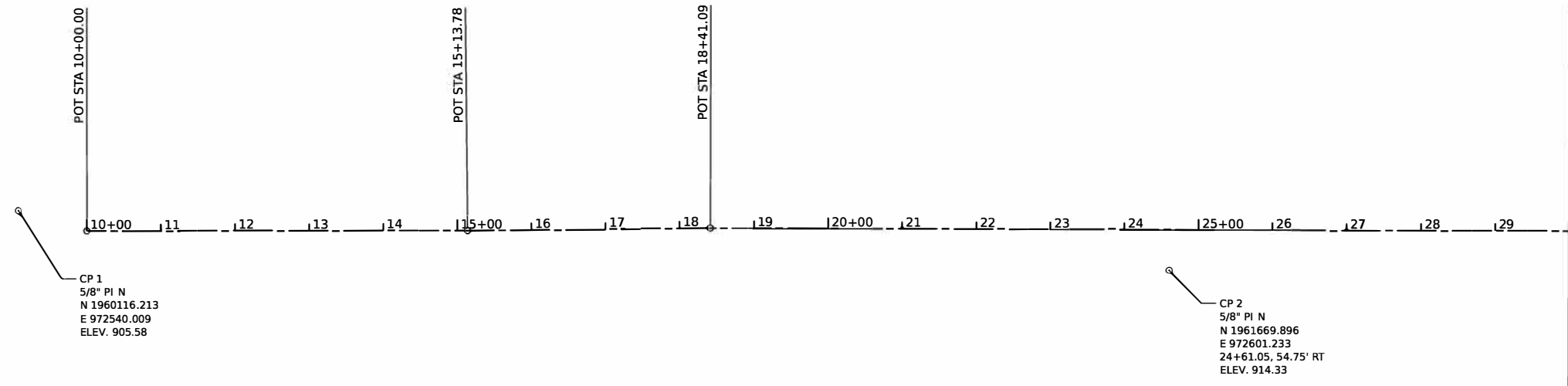
- Ⓐ PROPOSED HMA SURFACE COURSE, IL-9.5, MIX D, N50, 1.5" HMA BINDER COURSE, IL-9.5, N50, 1.5"
- Ⓑ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B

REMOVAL LEGEND

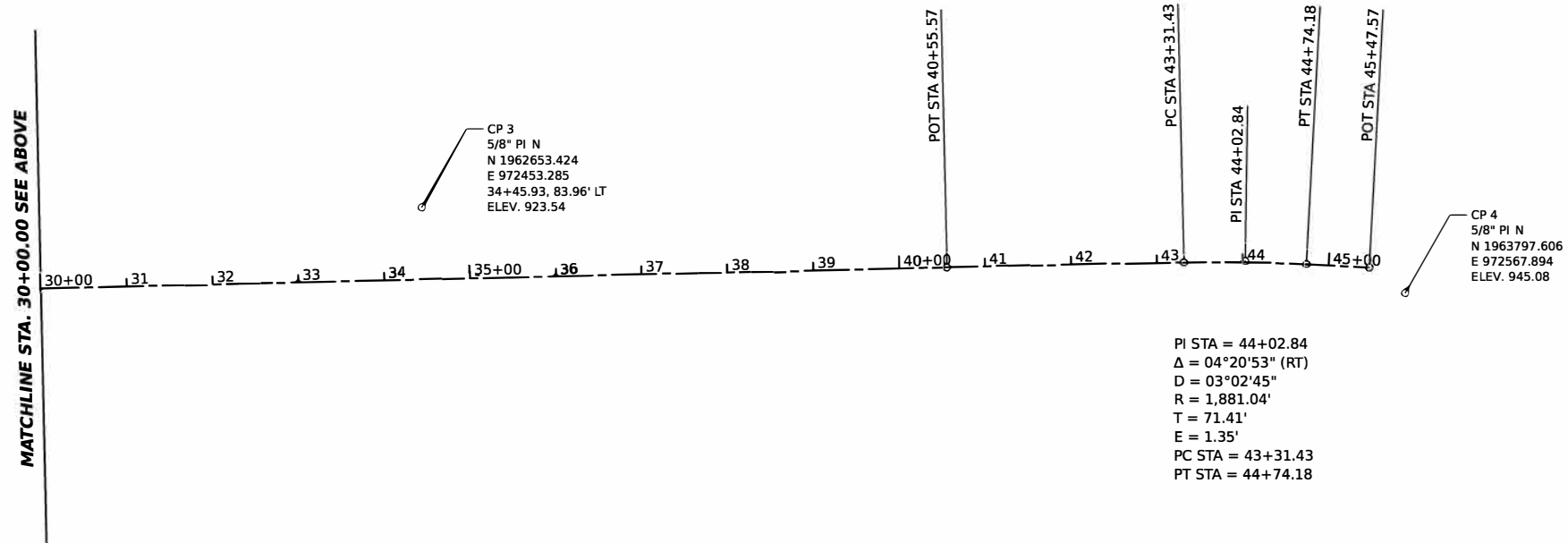
REMOVAL ITEM

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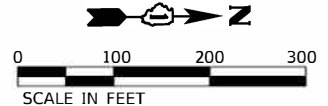
	HAMPTON, LENZINI AND RENWICK, INC. <small>380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184.000654</small>	USER NAME = jmeindl DESIGNED - DRAWN - CHECKED - PLOT DATE = 1/13/2023	REVISED - REVISED - REVISED - REVISED -	CITY OF ELGIN 1900 HOLMES ROAD ELGIN, IL 60123	MCDONALD ROAD TYPICAL SECTIONS	F.A. RTE. 0170 SECTION 21-00190-00-RS COUNTY KANE TOTAL SHEETS 50 SHEET NO. 8 CONTRACT NO. 61J44 <small>(ILLINOIS / FED. AID PROJECT)</small>
	SCALE: SHEET OF SHEETS STA. TO STA.					



COOMBS ROAD			
TYPE	STATION	NORTHING	EASTING
POT	10+00.00	1960208.49	972566.96
PI	15+13.79	1960722.23	972560.07
PI	18+41.09	1961049.44	972552.31
PI	40+55.57	1963263.83	972531.52
PC	43+31.44	1963539.68	972528.86
PI	44+02.84	1963611.08	972528.18
PT	44+74.18	1963682.33	972532.90
POT	45+47.57	1963755.56	972537.76



PI STA = 44+02.84
 $\Delta = 04^{\circ}20'53''$ (RT)
 $D = 03^{\circ}02'45''$
 $R = 1,881.04'$
 $T = 71.41'$
 $E = 1.35'$
 PC STA = 43+31.43
 PT STA = 44+74.18



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HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 L.S. / P.E. / S.E. CORP. 184-000668

USER NAME = jmeindl	DESIGNED -	REVISED -
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PLOT DATE = 1/13/2023	CHECKED -	REVISED -
	DATE -	REVI \$D -

CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

COOMBS ROAD			
ALIGNMENT, BENCHMARKS AND CONTROL POINTS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	9
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				

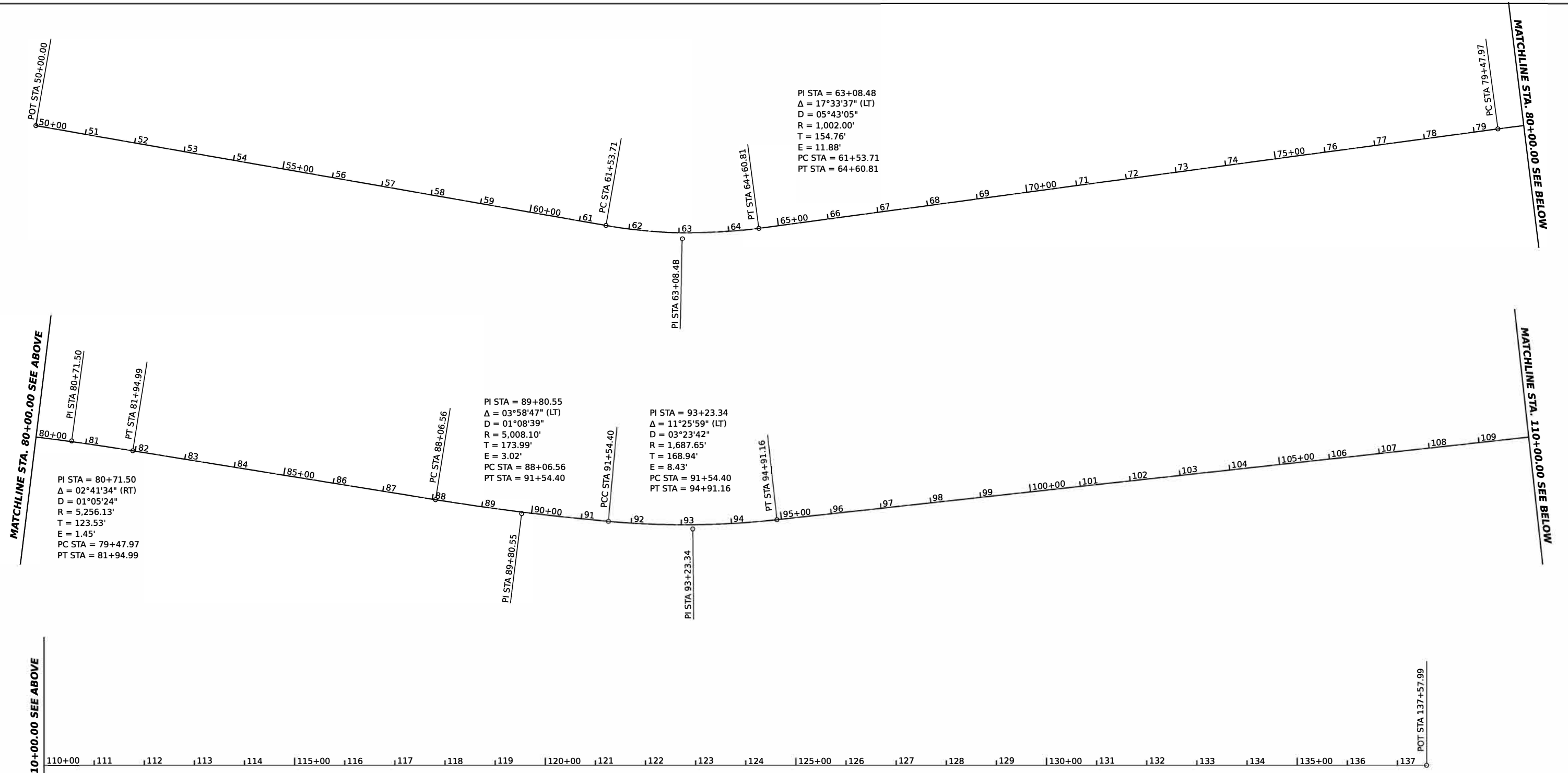
MATCHLINE STA. 30+00.00 SEE BELOW

PI STA = 63+08.48
 $\Delta = 17^{\circ}33'37''$ (LT)
 $D = 05^{\circ}43'05''$
 $R = 1,002.00'$
 $T = 154.76'$
 $E = 11.88'$
 PC STA = 61+53.71
 PT STA = 64+60.81

PI STA = 89+80.55
 $\Delta = 03^{\circ}58'47''$ (LT)
 $D = 01^{\circ}08'39''$
 $R = 5,008.10'$
 $T = 173.99'$
 $E = 3.02'$
 PC STA = 88+06.56
 PT STA = 91+54.40

PI STA = 93+23.34
 $\Delta = 11^{\circ}25'59''$ (LT)
 $D = 03^{\circ}23'42''$
 $R = 1,687.65'$
 $T = 168.94'$
 $E = 8.43'$
 PC STA = 91+54.40
 PT STA = 94+91.16

PI STA = 80+71.50
 $\Delta = 02^{\circ}41'34''$ (RT)
 $D = 01^{\circ}05'24''$
 $R = 5,256.13'$
 $T = 123.53'$
 $E = 1.45'$
 PC STA = 79+47.97
 PT STA = 81+94.99



HIGHLAND AVENUE			
TYPE	STATION	NORTHING	EASTING
POT	50+00.00	1959972.08	982129.64
PC	61+53.71	1959214.63	982999.88
PI	63+08.48	1959113.02	983116.62
PT	64+60.81	1959051.37	983258.57
PC	79+47.97	1958458.93	984622.63
PI	80+71.50	1958409.72	984735.94
PT	81+94.99	1958355.24	984846.81

HIGHLAND AVENUE (CONT'D)			
TYPE	STATION	NORTHING	EASTING
PC	88+06.56	1958085.53	985395.69
PI	89+80.55	1958008.79	985551.85
PCC	91+54.40	1957943.08	985712.95
PI	93+23.34	1957879.28	985869.38
PT	94+91.16	1957847.75	986035.35
POC	137+58.00	1957051.42	990227.22

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HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000000

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PLOT DATE = 1/13/2023	CHECKED -	REVISED -
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CITY OF ELGIN
 1900 HOLMES ROAD
 ELGIN, IL 60123

HIGHLAND AVENUE
 ALIGNMENT, BENCHMARKS AND CONTROL POINTS
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	10
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				

100+00 101 102 103 104 105+00 106 107 108 109 110+00 111 112 113 114 115+00 116 117 118 119 120+00 121 122 123 124 125+00 126 127 128 129

McDONALD ROAD			
TYPE	STATION	NORTHING	EASTING
POT	100+00.00	1937363.94	955748.63
PC	107+68.48	1937596.84	956480.96
PI	109+25.19	1937644.33	956630.30
PT	110+81.24	1937667.58	956785.28
PC	112+98.92	1937699.88	957000.55
PI	117+60.46	1937768.36	957456.98
PT	122+21.92	1937822.54	957915.33
PC	126+26.53	1937870.03	958317.14
PI	129+85.28	1937912.14	958673.41
PT	133+43.75	1937929.97	959031.72

130+00 131 132 133 134 135+00 136 137 138 139 140+00 141 142 143 144 145+00 146 147 148 149 150+00 151 152 153 154 155+00 156 157 158 159 160+00

McDONALD ROAD (CONT'D)			
TYPE	STATION	NORTHING	EASTING
PC	139+75.61	1937961.39	959662.79
PI	141+14.58	1937968.30	959801.59
PT	142+53.55	1937974.41	959940.43
PC	149+98.89	1938007.16	960685.05
PI	150+78.27	1938010.65	960764.35
PCC	151+57.61	1938009.36	960843.73
PI	152+52.85	1938007.83	960938.96
PCC	153+47.87	1937994.80	961033.31
PI	154+33.50	1937983.09	961118.13
PCC	155+19.04	1937964.82	961201.79
PI	157+74.11	1937910.41	961450.99
PT	160+28.94	1937837.26	961695.35

McDONALD ROAD (CONT'D)			
TYPE	STATION	NORTHING	EASTING
PC	167+01.91	1937644.27	962340.06
PI	168+11.83	1937612.74	962445.36
PCC	169+20.80	1937605.88	962555.07
PI	170+21.26	1937599.60	962655.33
PCC	171+21.28	1937609.45	962755.31
PI	172+34.22	1937620.53	962867.70
PT	173+47.11	1937637.71	962979.33
PC	178+55.83	1937715.06	963482.14
PI	180+05.66	1937737.84	963630.23
PRC	181+55.47	1937764.23	963777.71
PI	184+94.92	1937824.02	964111.84
PT	188+32.90	1937829.64	964451.24
POT	192+25.57	1937836.13	964843.86

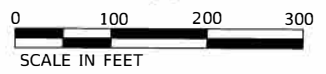
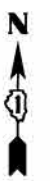
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MATCHLINE STA. 130+00.00

MATCHLINE STA. 130+00.00

MATCHLINE STA. 161+00.00

MATCHLINE STA. 161+00.00



HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
L3 / P.E. / S.E. CORP. 154 000558

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DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

McDONALD ROAD
ALIGNMENT, BENCHMARKS AND CONTROL POINTS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				

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48102100 AGGREGATE WEDGE SHOULDERS, TYPE B			
COOMBS ROAD			
STATION	TO STATION	REFERENCE	WEIGHT (TON)
15+65	TO 21+28	RT	15.7
15+65	TO 27+18	LT	32.1
22+00	TO 22+95	RT	2.6
23+65	TO 25+30	RT	4.3
25+75	TO 27+20	RT	3.8
34+60	TO 39+00	RT	28.2
39+55	TO 41+40	RT	4.8
39+70	TO 45+40	LT	22.5
42+30	TO 43+85	RT	4
44+30	TO 44+75	RT	0.9
TOTAL			119

XX006947 HMA DRIVEWAY REMOVAL AND REPLACEMENT		
COOMBS ROAD		
STATION	REFERENCE	AREA (SY)
21+50	RT	28.3
23+10	RT	22.6
25+50	RT	14.6
39+20	RT	25.6
42+00	RT	52.6
44+00	RT	14.6
TOTAL		158

78001100 PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS									
78001110 PAINT PAVEMENT MARKING - LINE 4"									
78001130 PAINT PAVEMENT MARKING - LINE 6"									
78001140 PAINT PAVEMENT MARKING - LINE 8"									
78001150 PAINT PAVEMENT MARKING - LINE 12"									
78001180 PAINT PAVEMENT MARKING - LINE 24"									
COOMBS ROAD									
STATION	TO STATION	REFERENCE	MARKING TYPE (COLOR)	PAVEMENT MARKING LETTERS AND SYMBOLS (SQ FT)	PAVEMENT MARKING - LINE 4" (FOOT)	PAVEMENT MARKING - LINE 6" (FOOT)	PAVEMENT MARKING - LINE 12" (FOOT)	PAVEMENT MARKING - LINE 24" (FOOT)	
15+65	TO 33+48	LT	EL (W)		1,797				
15+65	TO 27+26	CTR	DBL (Y)		2,322				
15+65	TO 45+15	RT	EL (W)		2,980				
27+26	TO 31+76	CTR	2 - DBL (Y)		1,800				
27+26	TO 31+76	CTR	MD (Y)				78		
29+96	TO 31+76	RT	2-6 SD (W)			46			
31+76	TO 33+26	LT	DBL (Y)		300				
31+76	TO 33+26	RT	TL (W)			150			
32+00	TO 32+00	CTR	OAL (W)	36.4					
34+20	TO 45+49	LT	EL (W)		1,140				
34+32	TO 40+46	CTR	2 - DBL (Y)		2,466				
34+32	TO 40+46	CTR	MD (Y)				175		
34+38	TO 35+96	LT	TL (W)			158			
35+68	TO 35+68	LT	OAR (W)	36.4					
35+96	TO 37+76	LT	2-6 SD (W)			46			
40+46	TO 44+77	CTR	DBL (Y)		862				
44+77	TO 44+77	LT	STOP (W)					14	
TOTAL					72.8	13,667	400	253	14

LEGEND

TL	TURN LANE LINE	10-30 SD	10' DASH - 30' SKIP
EL	EDGE LINE	MD	MEDIAN DIAGONAL
DBL	DOUBLE YELLOW CENTERLINE	STOP	STOP BAR
2-6 SD	2' DASH - 6' SKIP	OAL or OAR	ONLY ARROW LEFT or RIGHT

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HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000059

USER NAME = jmeindl	DESIGNED -	REVISED -
PLOT SCALE = 2.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/13/2023	CHECKED -	REVISED -
	DATE -	REVISED -

CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

COOMBS ROAD			
SCHEDULE OF QUANTITIES			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	12
CONTRACT NO. 61J44			ILLINOIS FED. AID PROJECT	

48102100 AGGREGATE WEDGE SHOULDERS, TYPE B				
HIGHLAND AVENUE				
STATION	TO	STATION	REFERENCE	WEIGHT (TON)
57+86	TO	61+53	LT	11.8
57+90	TO	57+95	RT	0.4
58+80	TO	60+20	RT	3.6
60+74	TO	61+80	RT	2.8
62+54	TO	68+84	LT	16.2
62+78	TO	68+90	RT	15.8
69+29	TO	69+82	RT	1.4
69+65	TO	74+47	LT	13.5
70+87	TO	72+43	RT	4
73+10	TO	74+22	RT	2.9
74+77	TO	81+34	RT	17
75+25	TO	79+82	LT	11.8
80+98	TO	82+20	LT	3.2
82+36	TO	89+13	RT	17.5
82+57	TO	83+50	LT	2.4
83+86	TO	85+74	LT	6
86+26	TO	89+17	LT	7.5
90+17	TO	96+06	RT	15.3
90+20	TO	95+40	LT	13.7
95+65	TO	97+13	LT	3.8
96+75	TO	99+04	RT	5.9
97+37	TO	99+04	LT	4.3
99+69	TO	104+45	RT	12.2
99+74	TO	102+34	LT	6.7
103+14	TO	104+14	LT	1.8
105+44	TO	109+90	RT	12.1
105+66	TO	108+70	LT	8.2
108+92	TO	109+53	LT	1.5
110+02	TO	111+11	LT	2.7
111+56	TO	114+66	LT	9.2
111+79	TO	113+35	RT	3.9
114+17	TO	117+35	RT	8.2
115+09	TO	117+56	LT	7.4
117+73	TO	118+33	RT	1.5
118+19	TO	120+49	LT	5.9
119+02	TO	123+79	RT	11.8
120+72	TO	122+10	LT	4.3
126+00	TO	126+75	RT	5.2
127+12	TO	127+86	RT	4.7
128+35	TO	128+58	RT	0.6
128+78	TO	129+27	RT	1.8
130+00	TO	131+31	RT	3.3
TOTAL				294

XX006947 HMA DRIVEWAY REMOVAL AND REPLACEMENT		
HIGHLAND AVENUE		
STATION	REFERENCE	AREA (SY)
58+20	RT	89.6
60+65	RT	11.9
69+00	RT	13.1
72+60	RT	33.2
74+40	RT	44
74+85	LT	70.8
83+80	LT	12.3
86+00	LT	48.6
95+50	LT	37.7
96+40	RT	30.2
97+20	LT	32
99+40	LT	16
102+75	LT	96.7
108+80	LT	29.8
109+75	LT	62
111+00	RT	117
117+50	RT	51.3
118+50	RT	73.8
120+60	LT	23.1
123+30	LT	23.9
125+00	RT	198.1
124+70	LT	23.9
126+85	RT	48.9
127+40	LT	16.1
127+95	RT	51.9
129+40	RT	58.2
130+35	LT	32.4
130+85	LT	37.1
133+90	LT	26.3
TOTAL		1,410

28000510 INLET FILTERS		
HIGHLAND AVENUE		
STATION	REFERENCE	QUANTITY (EA)
52+85	RT	1
52+85	LT	1
104+67	RT	1
105+26	RT	1
132+37	RT	1
135+84	RT	1
136+46	RT	1
136+46	LT	1
TOTAL		8

60266600 VALVE BOXES TO BE ADJUSTED					
X6022900 CATCH BASINS TO BE RECONSTRUCTED (SPECIAL)					
X6026050 SANITARY MANHOLES TO BE ADJUSTED					
X6030310 FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)					
HIGHLAND AVENUE					
STATION	REFERENCE	VALVE BOXES TO BE ADJUSTED (EACH)	CATCH BASINS TO BE RECONSTRUCTED (SPECIAL) (EACH)	SANITARY MANHOLES TO BE ADJUSTED (EACH)	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) (EACH)
50+17	36' LT				1
50+40	28' LT				1
52+89	32' LT		1		
69+50	15' LT	1			
80+57	17' LT				1
88+32	16' LT	1			
89+42	15' LT				1
104+67	27' RT				1
104+75	23' LT				1
122+09	12' LT				1
122+37	19' LT				1
122+71	12' LT				1
125+50	13' LT				1
125+77	16' LT				1
128+72	13' LT				1
129+12	24' LT				1
132+11	15' LT	1			
132+35	15' RT				1
132+40	19' LT			1	
132+48	26' LT				1
134+97	15' LT				1
135+62	19' LT	1			
135+65	9' LT				1
136+37	16' RT				1
136+50	8' LT				1
TOTAL		4	1	1	19

X4240430 PORTLAND CEMENT CONCRETE SIDEWALKS INCH, SPECIAL					
42400800 DETECTABLE WARNINGS					
44000600 SIDEWALK REMOVAL					
X4400501 COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET					
LOCATION ON HIGHLAND AVENUE	PCC SIDEWALK, 5" (SF)	DETECTABLE WARNINGS (SF)	SIDEWALK REMOVAL (SF)	C&G REMOVE AND REPLACE (FOOT)	
AT HIGHLAND SPRINGS DRIVE					
NORTHWEST CORNER	104	16	72	22	
NORTHEAST CORNER	118	16	98	21	
AT AIRLITE STREET					
NORTHWEST CORNER	124	16	124	35	
SOUTHWEST CORNER	62	17	62	15	
SOUTHEAST CORNER	112	16	112	35	
AT LYLE AVENUE					
SOUTHWEST CORNER	171	20	171	34	
SOUTHEAST CORNER	141	10	141	0	
AT SEXAUER AVENUE					
NORTHWEST CORNER	107	8	107	10	
NORTHEAST CORNER	191	8	191	10	
AT TRIGGS AVENUE					
NORTHWEST CORNER	96	8	96	9	
NORTHEAST CORNER	104	8	104	10	
AT HEINE AVENUE					
NORTHWEST CORNER	82	8	82	10	
NORTHEAST CORNER	96	8	96	8	
TOTAL		1508	159	1456	219

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HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184-000059

USER NAME = jmeindl	DESIGNED -	REVISED -
PLOT SCALE = 2.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 4/21/2023	CHECKED -	REVISED -
	DATE -	REVISED -

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

HIGHLAND AVENUE
SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	13
CONTRACT NO. 61]44				
ILLINOIS FED. AID PROJECT				

78001100 PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS
 78001110 PAINT PAVEMENT MARKING - LINE 4"
 78001130 PAINT PAVEMENT MARKING - LINE 6"
 78001140 PAINT PAVEMENT MARKING - LINE 8"
 78001150 PAINT PAVEMENT MARKING - LINE 12"
 78001180 PAINT PAVEMENT MARKING - LINE 24"

HIGHLAND AVENUE

STATION TO STATION	REFERENCE	MARKING TYPE (COLOR)	PAVEMENT MARKING LETTERS AND SYMBOLS (SQ FT)	PAVEMENT MARKING - LINE 4" (FOOT)	PAVEMENT MARKING - LINE 6" (FOOT)	PAVEMENT MARKING - LINE 8" (FOOT)	PAVEMENT MARKING - LINE 12" (FOOT)	PAVEMENT MARKING - LINE 24" (FOOT)
50+58 TO 50+58	LT	STOP (W)						50
50+66 TO 51+12	RT	EL (W)				88		
51+04 TO 51+34	RT	STOP (W)						29
51+25 TO 51+34	RT	MD (W)					20	
51+25 TO 51+34	RT	EL (W)		64				
50+53 TO 52+55	LT	TL (W)			202			
50+63 TO 52+55	LT	TL (W)			192			
50+73 TO 53+15	RT-LT	2- DBL (Y)		980				
53+15 TO 54+35	RT-LT	2- NP (Y)		300				
54+35 TO 58+20	RT-LT	2- DBL (Y)		1,540				
52+32 TO 52+32	LT	OAL (W)	36.4					
52+32 TO 52+32	LT	OAR (W)	36.4					
52+55 TO 54+35	LT	2-6 SD (W)			45			
52+55 TO 54+35	LT	2-6 SD (W)			45			
53+77 TO 53+77	CTR	TWLT (W)	31.2					
54+35 TO 58+20	RT	MD (Y)					215	
54+35 TO 61+53	LT	EL (W)		718				
54+35 TO 61+53	RT	EL (W)		718				
54+35 TO 61+73	CTR	DBL (Y)		1,476				
62+42 TO 68+64	LT	EL (W)		622				
62+42 TO 64+60	CTR	DBL (Y)		436				
62+58 TO 81+34	RT	EL (W)		1,876				
64+60 TO 68+82	CTR	NP (Y)		528				
69+54 TO 80+04	LT	EL (W)		1,050				
69+54 TO 84+15	CTR	10-30 SD (Y)		360				
80+75 TO 89+25	LT	EL (W)		850				
82+35 TO 89+25	RT	EL (W)		690				
84+15 TO 88+15	RT - LT	2- DBL (Y)		1,600				
84+15 TO 88+15	RT - LT	MD (Y)					144	
86+40 TO 88+15	RT	2 - 2-6 SD(W)			88			
88+15 TO 89+20	LT	DBL (Y)		210				
88+15 TO 89+20	RT	2 - TL (W)			210			
88+38 TO 88+38	CTR	OAL (W)	36.4					
88+38 TO 88+38	RT	OAR (W)	36.4					
89+38 TO 89+44	RT - LT	SCW (W)					126	
89+53 TO 89+69	LT	STOP (W)						16
89+52 TO 89+86	LT	CW (W)			66			
89+44 TO 89+85	RT	CW (W)			83			
89+62 TO 89+86	RT	STOP (W)						24
89+94 TO 90+00	RT - LT	SCW (W)					93	
90+09 TO 99+09	LT	EL (W)		900				
90+09 TO 91+09	LT	TL (W)			100			
90+09 TO 91+09	CTR	DBL (Y)		200				
90+09 TO 99+09	LT	EL (W)		900				
90+84 TO 99+84	CTR	OAL (W)	36.4					

STATION TO STATION	REFERENCE	MARKING TYPE (COLOR)	PAVEMENT MARKING LETTERS AND SYMBOLS (SQ FT)	PAVEMENT MARKING - LINE 4" (FOOT)	PAVEMENT MARKING - LINE 6" (FOOT)	PAVEMENT MARKING - LINE 8" (FOOT)	PAVEMENT MARKING - LINE 12" (FOOT)	PAVEMENT MARKING - LINE 24" (FOOT)
91+09 TO 92+69	LT	2-6 SD (W)			40			
91+09 TO 94+69	RT - LT	2 - DBL (Y)		1,440				
91+09 TO 94+69	RT - LT	MD (Y)					140	
94+69 TO 104+50	CTR	DBL (Y)		1,962				
99+65 TO 104+50	RT	EL (W)		485				
99+65 TO 104+54	LT	EL (W)		490				
104+50 TO 104+50	RT	STOP (W)						20
104+54 TO 104+60	RT - LT	CW (W)			105			
104+73 TO 105+21	RT	CW (W)			91			
105+30 TO 105+36	RT - LT	CW (W)			104			
105+42 TO 105+42	LT	STOP (W)						24
105+36 TO 113+36	RT	EL (W)		800				
105+42 TO 113+38	CTR	DBL (Y)		1,592				
105+42 TO 121+94	LT	EL (W)		1,652				
114+06 TO 131+31	CTR	10-30 SD (Y)		430				
114+16 TO 131+59	RT	EL (W)		1,743				
116+20 TO 116+20	RT	SCH (W)	32.3					
122+64 TO 125+38	LT	EL (W)		274				
124+47 TO 124+47	LT	SCH (W)	32.3					
125+98 TO 128+64	LT	EL (W)		266				
129+38 TO 132+03	LT	EL (W)		265				
131+31 TO 132+25	RT - LT	2 - DBL (Y)		400				
131+31 TO 132+25	RT - LT	MD (Y)					40	
132+71 TO 135+56	LT	EL (W)		285				
132+71 TO 133+46	CTR	TL (W)			75			
132+71 TO 133+46	RT	DBL (Y)		150				
133+18 TO 133+18	RT	OAL (W)	36.4					
133+46 TO 134+06	CTR	2-6 SD (W)			16			
133+46 TO 134+61	RT	2 - DBL (Y)		460				
133+46 TO 134+61	RT	MD (Y)					47	
134+01 TO 134+61	RT	2-6 SD (W)			16			
134+61 TO 135+61	CTR	DBL (Y)		200				
134+61 TO 135+64	RT	TL (W)			103			
135+64 TO 135+64	RT	STOP (W)						23
135+18 TO 135+18	RT	OAL (W)	36.4					
135+68 TO 135+74	RT - LT	CW (W)			93			
136+34 TO 136+40	RT - LT	CW (W)			102			
136+45 TO 136+45	RT - LT	STOP (W)						27
136+45 TO 136+95	CTR	TL (W)			50			
136+45 TO 137+41	R	DBL (Y)		192				
136+73 TO 136+73	RT	OAL (W)	36.4					
136+95 TO 137+41	CTR	2-6 SD (W)			12			
TOTAL			387.0	29,104	1,838	88	825	213

LEGEND

TL	TURN LANE LINE	STOP	STOP BAR
EL	EDGE LINE	CW	CROSSWALK
DBL	DOUBLE YELLOW CENTERLINE	SCW	SCHOOL CROSSWALK
NP	NO PASSING CENTERLINE	SCH	SCHOOL LETTERS
2-6 SD	2' DASH - 6' SKIP	OAL or OAR	ONLY ARROW LEFT or RIGHT
10-30 SD	10' DASH - 30' SKIP	TWLT	TWO-WAY LEFT TURN ARROWS
MD	MEDIAN DIAGONAL		

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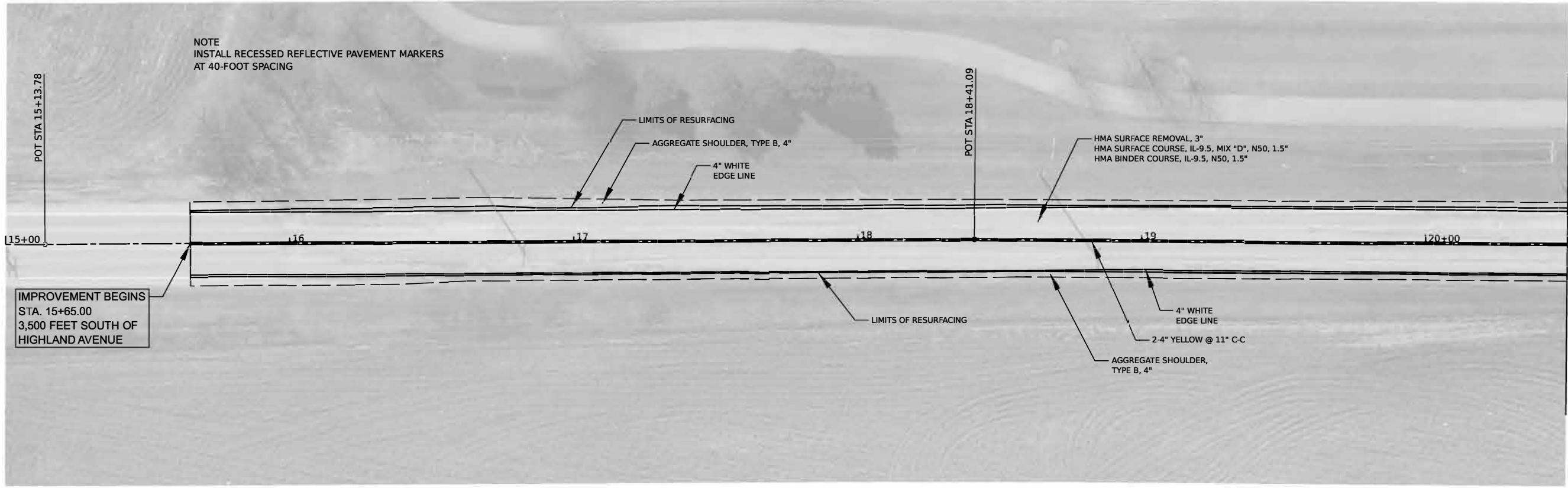
HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184-000059

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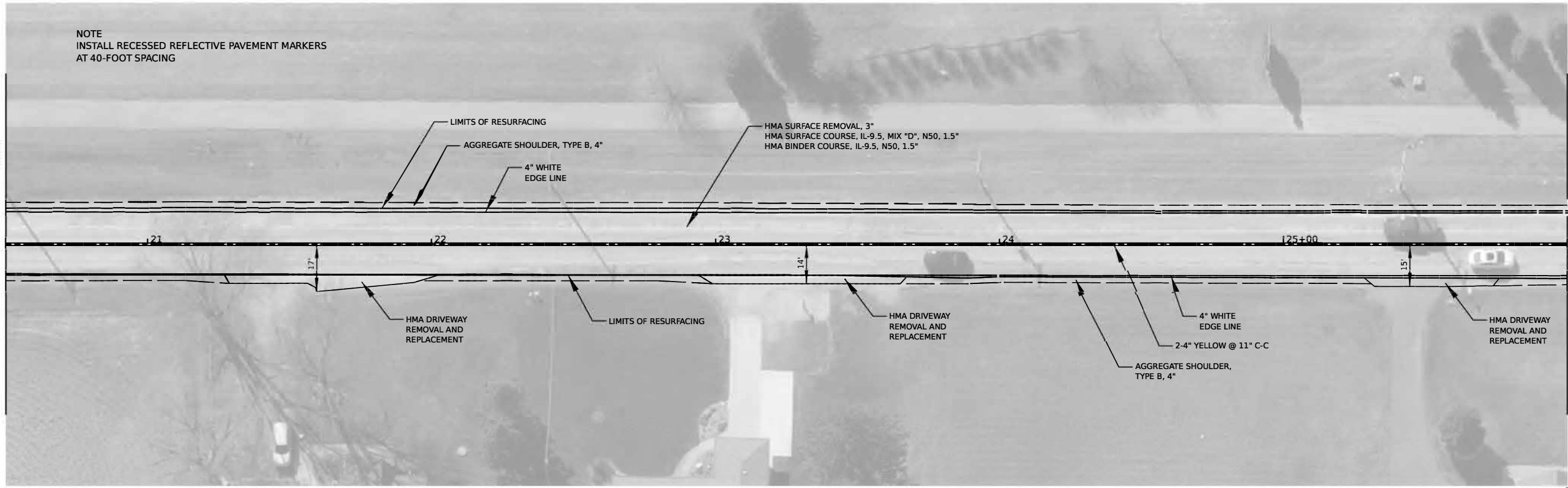
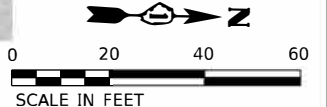
CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

HIGHLAND AVENUE			
SCHEDULE OF QUANTITIES			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	14
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 20+50.00 SEE BELOW



MATCHLINE STA. 26+00.00 SEE SHT. 17



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HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000000

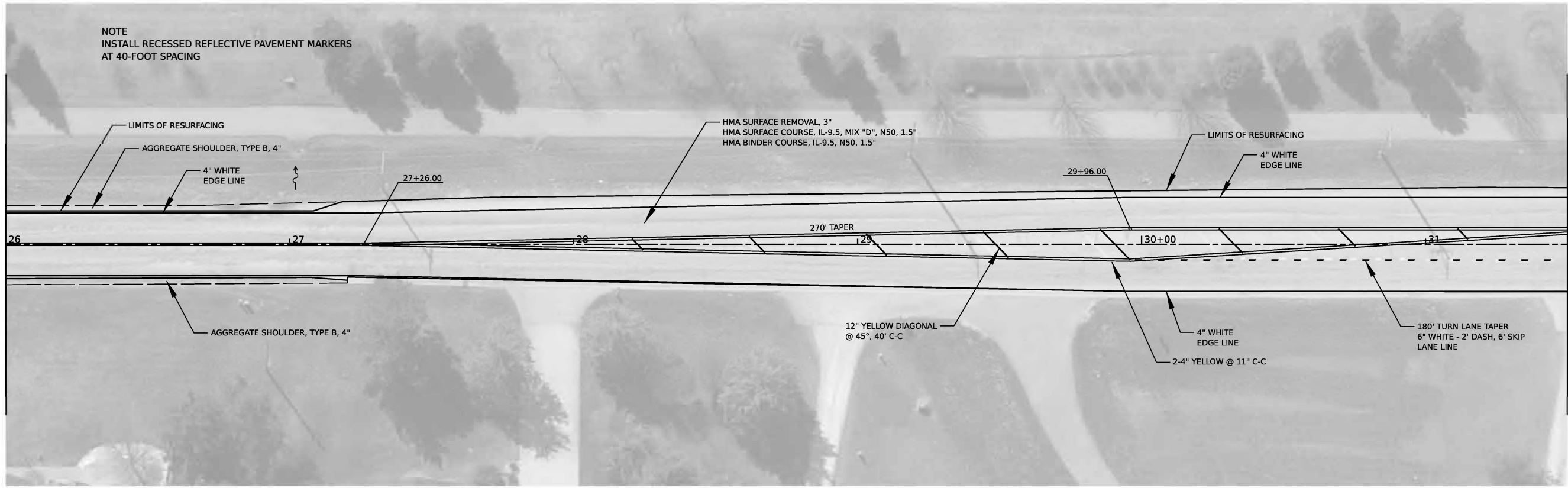
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CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

**COOMBS ROAD
PLAN**

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

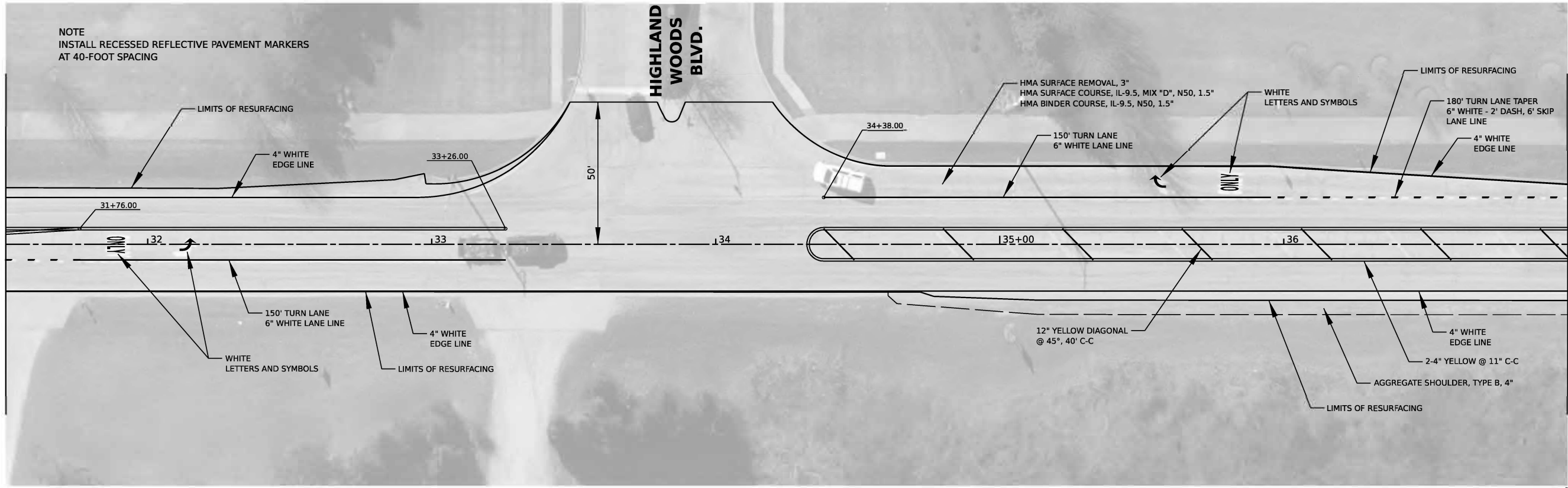
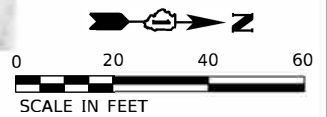
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		KANE	50	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 6144	



NOTE
INSTALL RECESSED REFLECTIVE PAVEMENT MARKERS
AT 40-FOOT SPACING

MATCHLINE STA. 26+00.00 SEE SHT. 16

MATCHLINE STA. 31+50.00 SEE BELOW

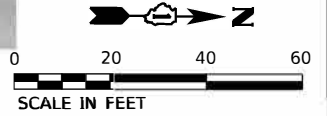


NOTE
INSTALL RECESSED REFLECTIVE PAVEMENT MARKERS
AT 40-FOOT SPACING

HIGHLAND
WOODS
BLVD.

MATCHLINE STA. 31+50.00 SEE ABOVE

MATCHLINE STA. 37+00.00 SEE SHT. 18



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HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000000

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PLOT SCALE = 0.1667' / in.
PLOT DATE = 1/13/23

DESIGNED -
DRAWN -
CHECKED -
DATE -

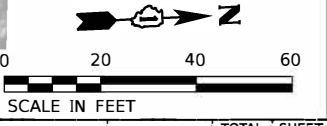
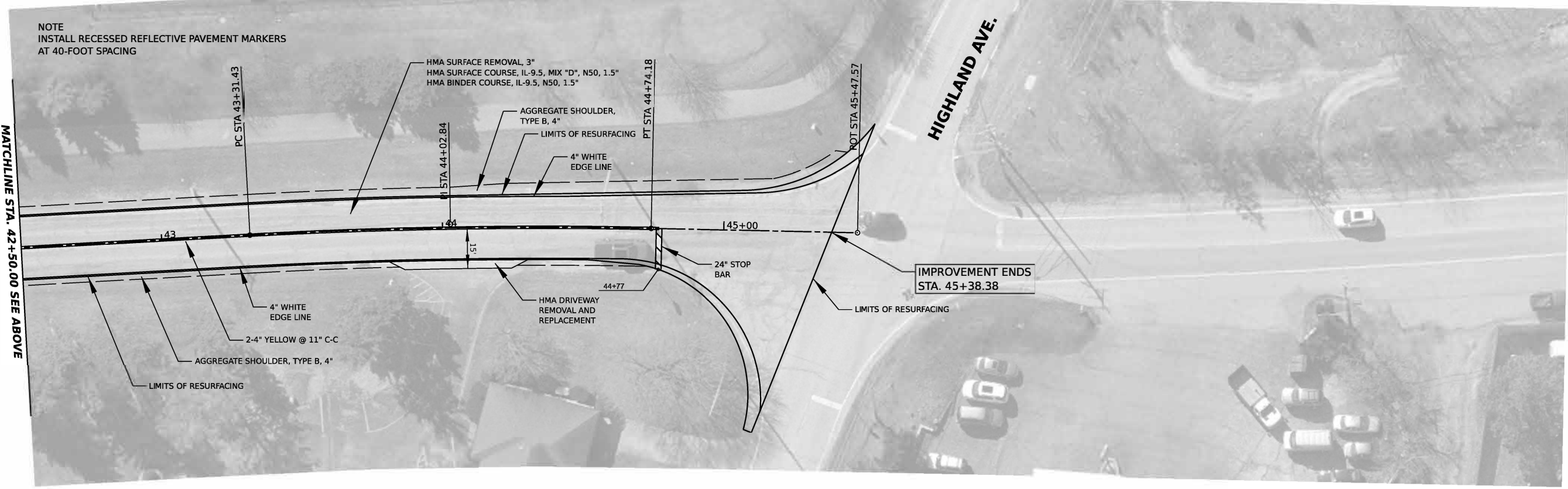
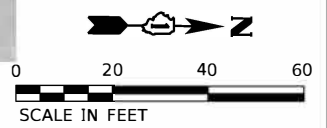
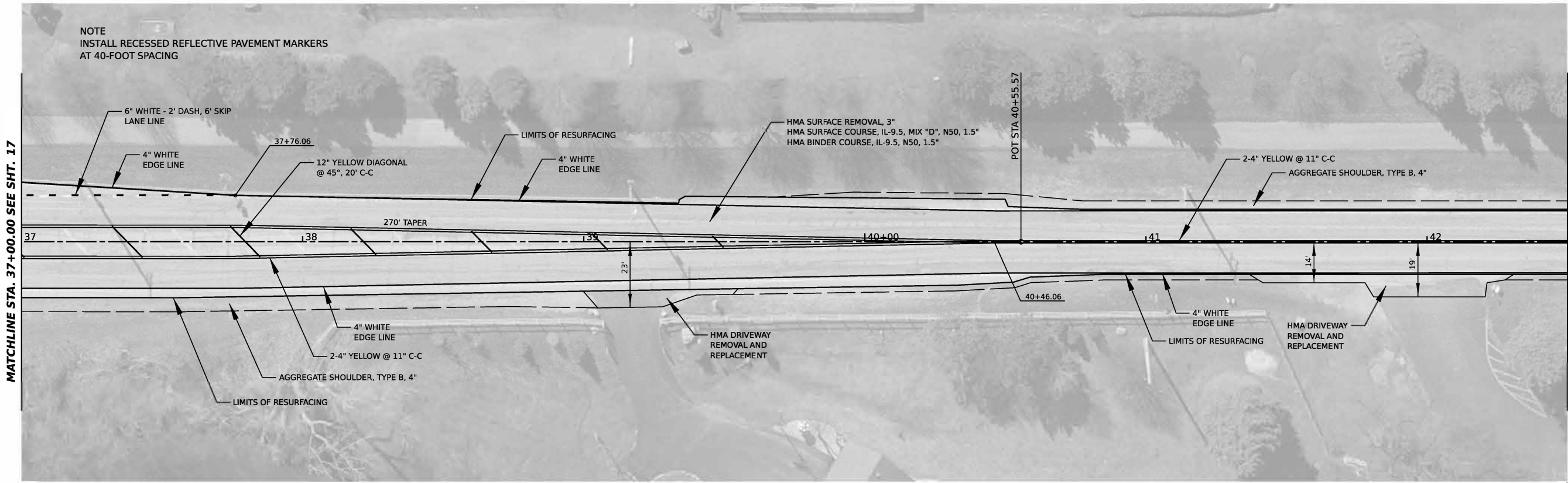
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CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

COOMBS ROAD
PLAN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	50	17
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				



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HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000000

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 PLOT DATE = 2/1/2023

DESIGNED -
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 CHECKED -
 DATE -

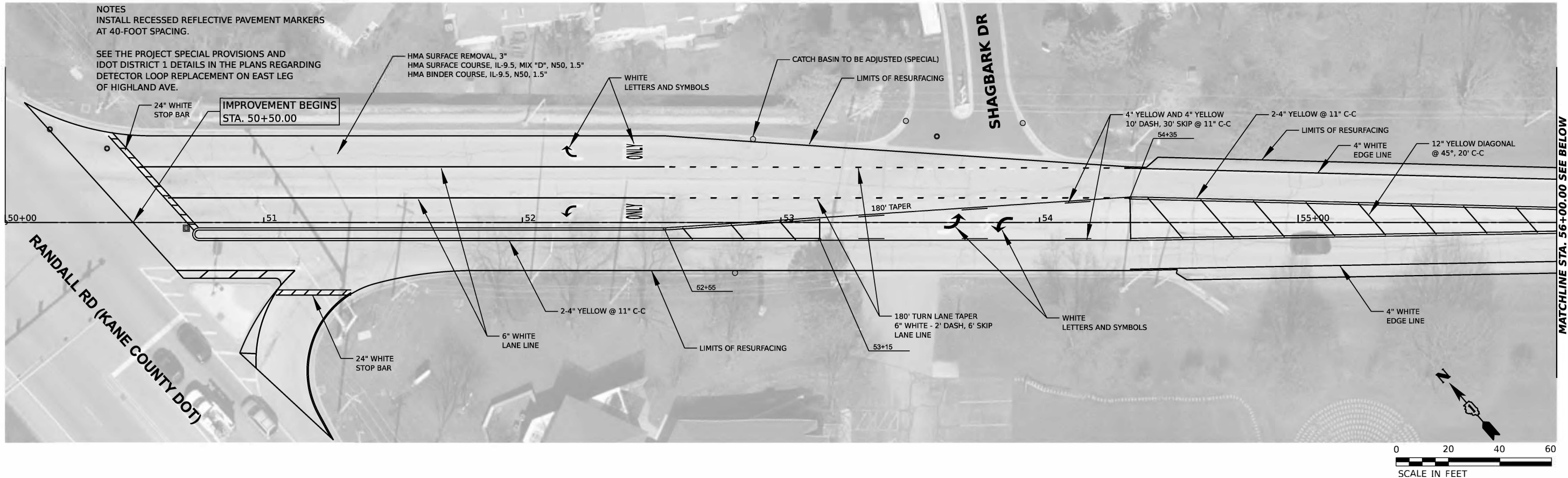
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CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

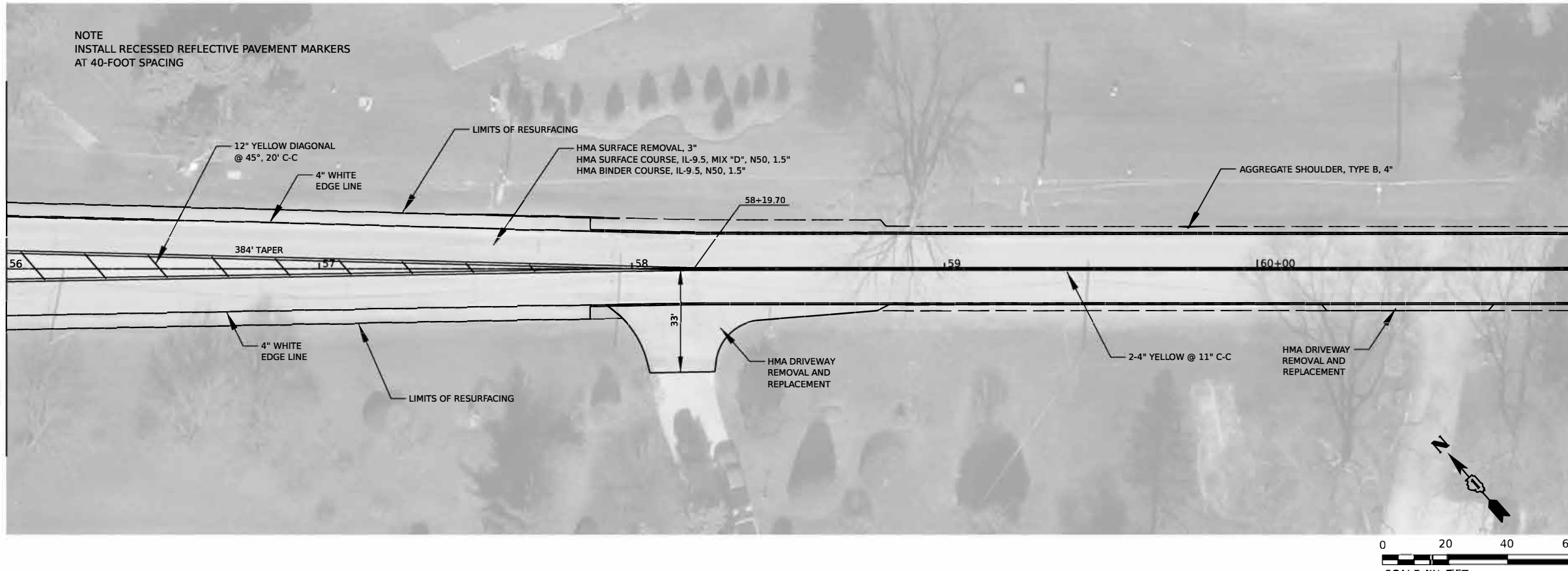
COOMBS ROAD
PLAN

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

F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	50	18
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 56+00.00 SEE BELOW



MATCHLINE STA. 56+00.00 SEE ABOVE

MATCHLINE STA. 61+00.00 SEE SHT. 20

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HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000000

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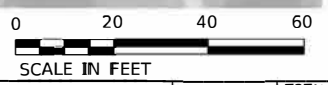
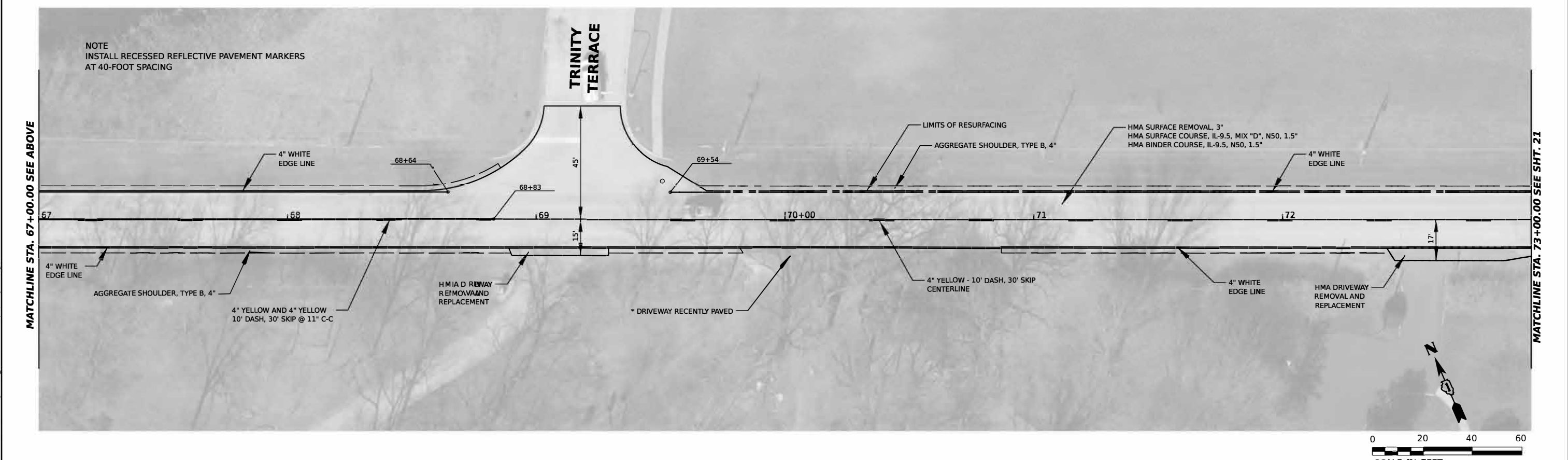
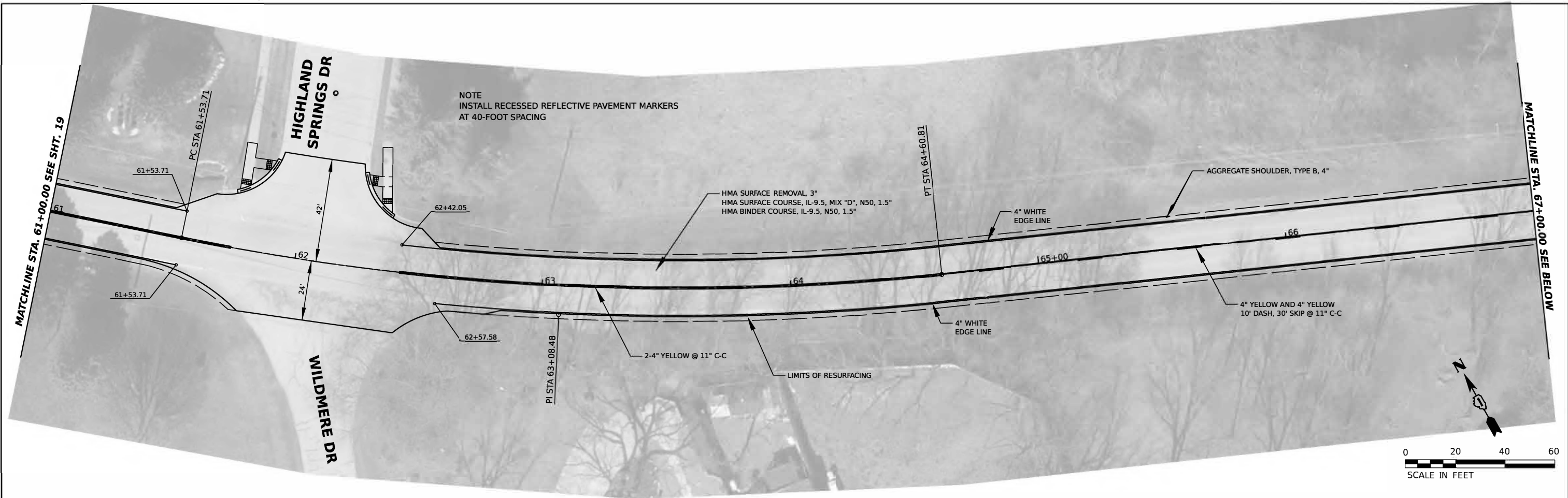
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CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

HIGHLAND AVENUE
PLAN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	50	19
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				



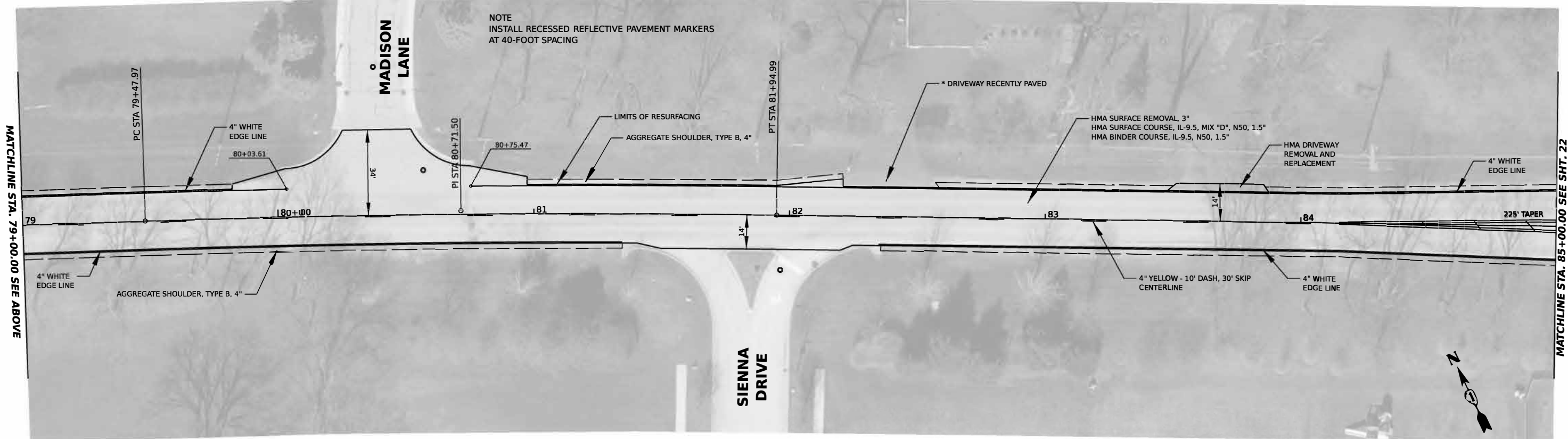
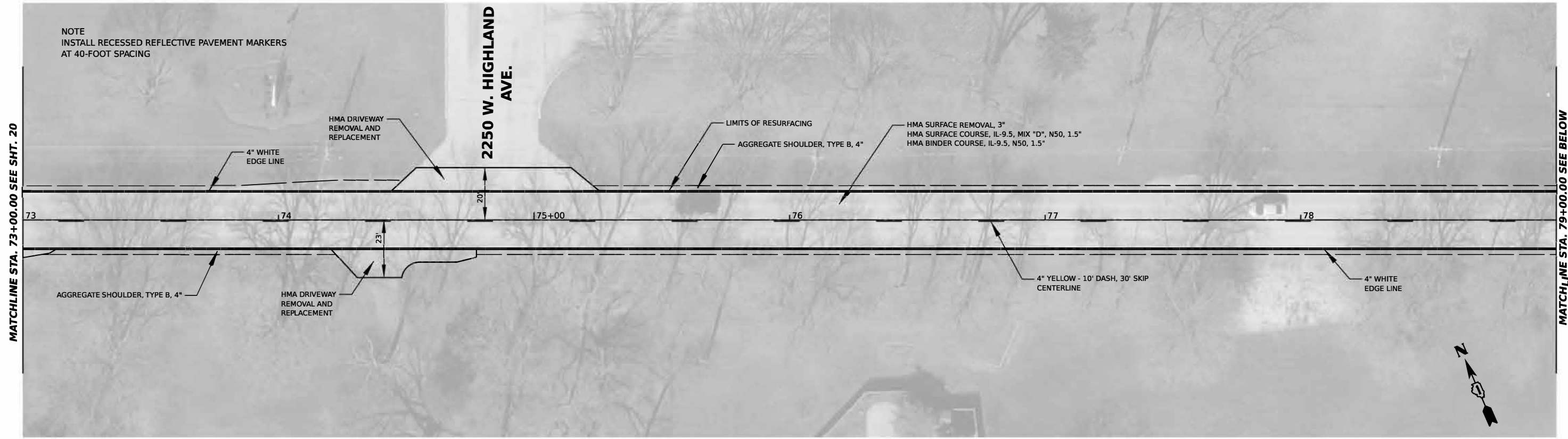
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 HLR ILLINOIS PROFESSIONAL DESIGN FIRM
 184.000000

HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000000	USER NAME = jmeindl	DESIGNED -	REVISED -
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	PLOT DATE = 1/13/2023	CHECKED -	REVISED -
		DATE -	REVISED -

CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	50	20
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				



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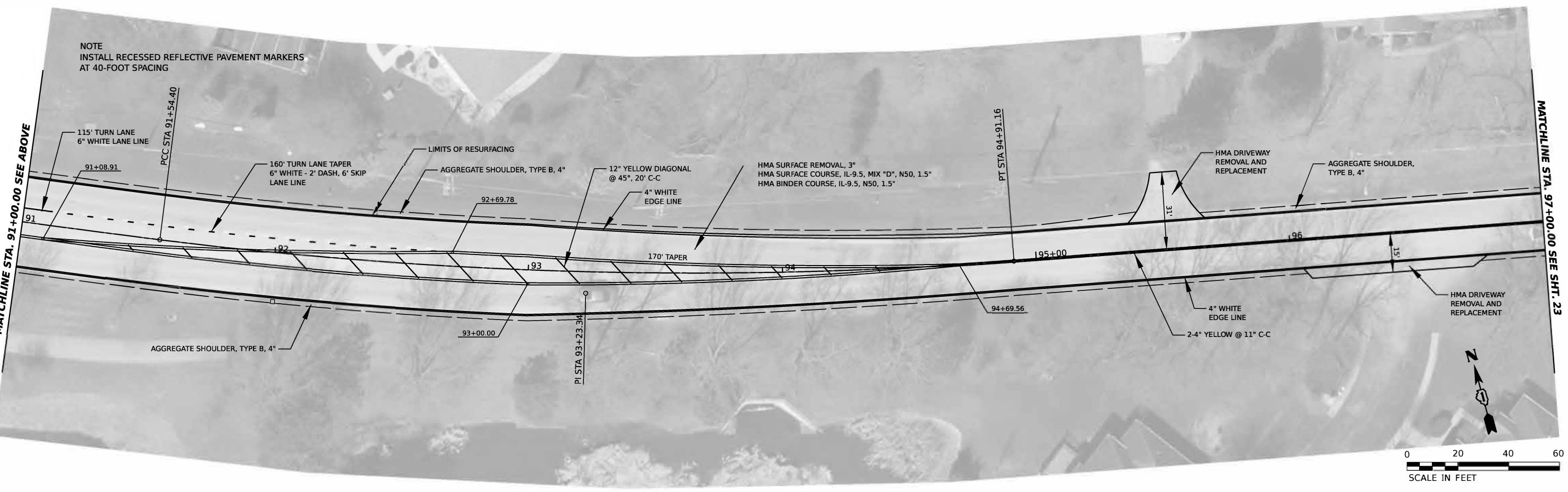
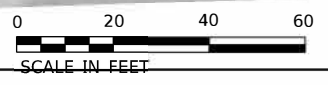
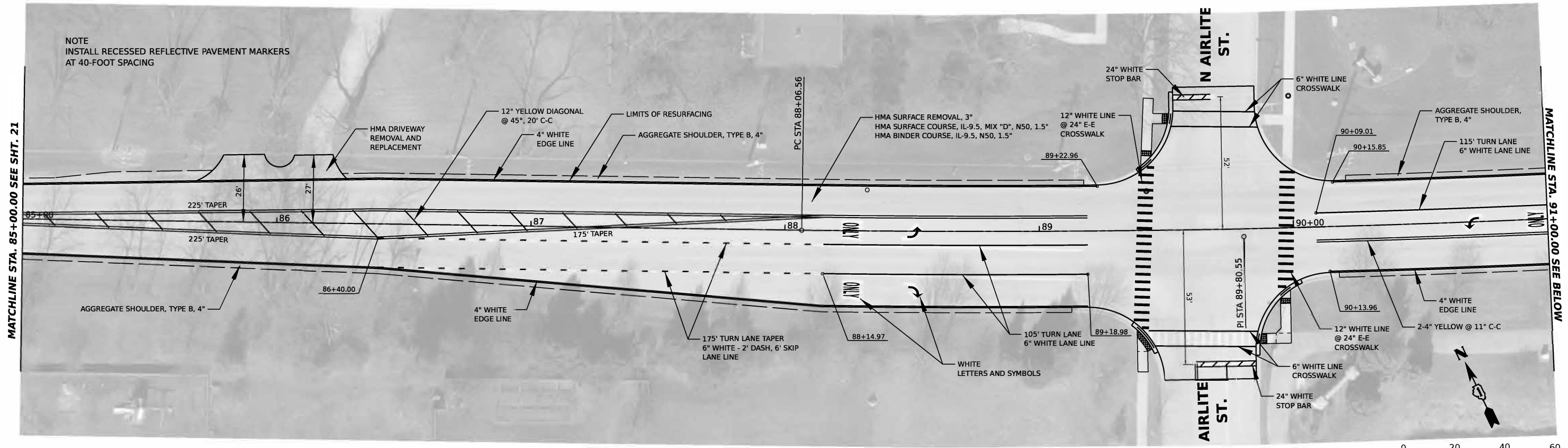
HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000000

USER NAME = jmeindl	DESIGNED -	REVISED -
PL @ SCALE = 0.166666" / 1'	DRAWN -	REVISED -
PLOT DATE = 1/13/2023	CHECKED -	REVISED -
	DATE -	REVISED -

CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	50	21
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				



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HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000000

USER NAME = jmeindl
 PLOT SCALE = 0.166666" / in.
 PLOT DATE = 1/13/2023

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

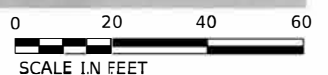
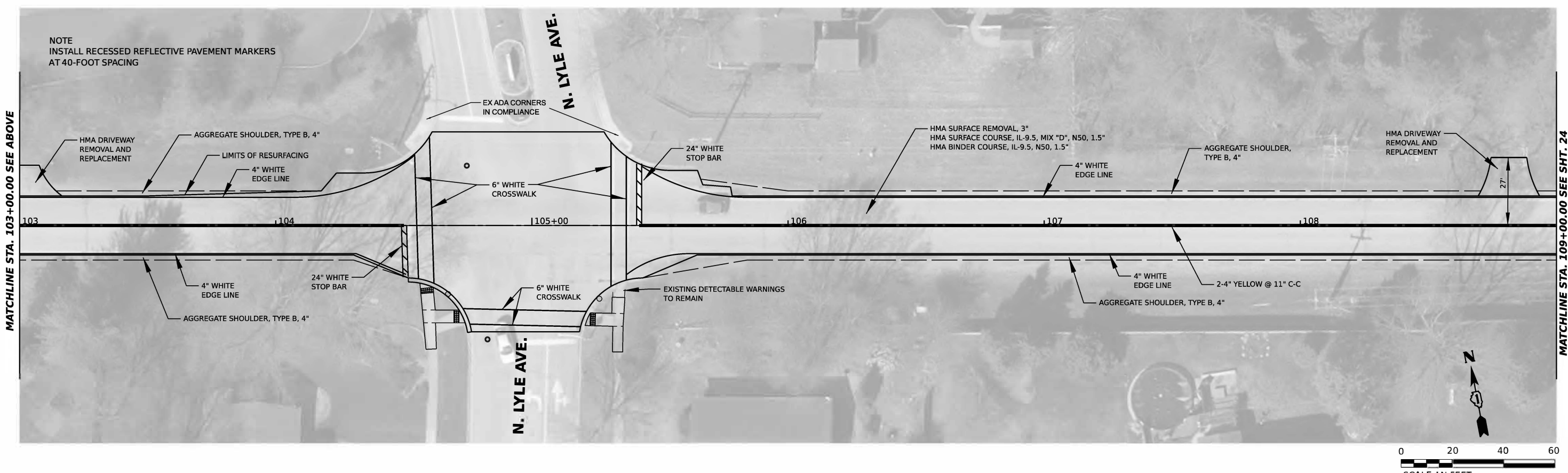
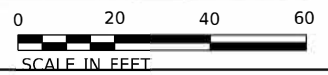
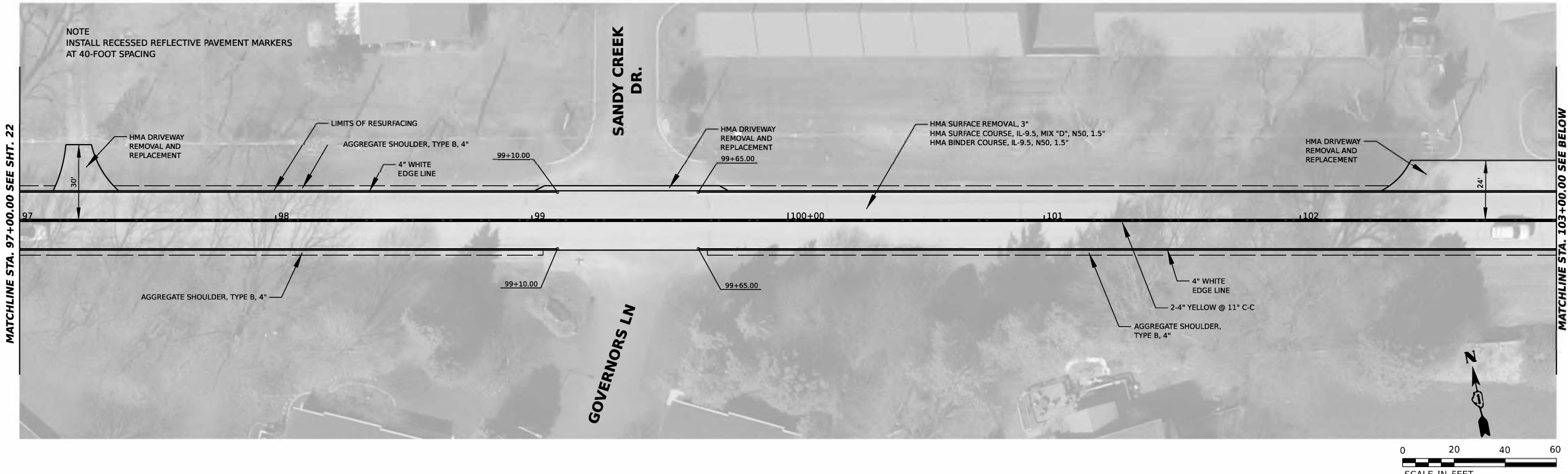
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CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

HIGHLAND AVENUE
PLAN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	50	22
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				



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HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000000

USER NAME = jmeindl
 PL @ SCALE = 0.166666' / in.
 PLOT DATE = 1/13/2023

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

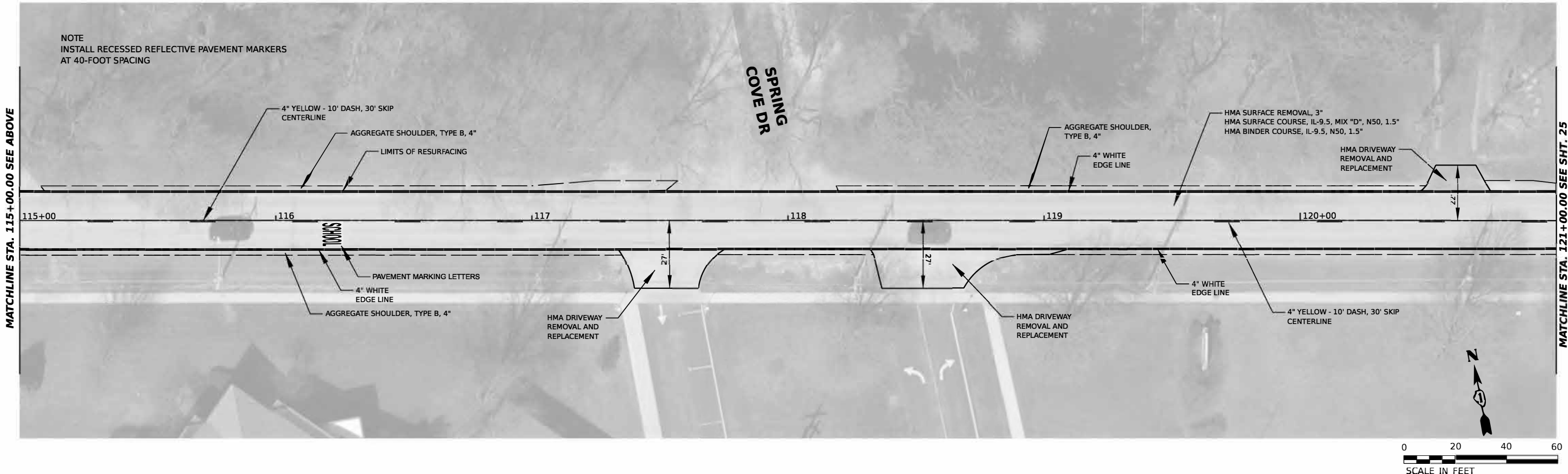
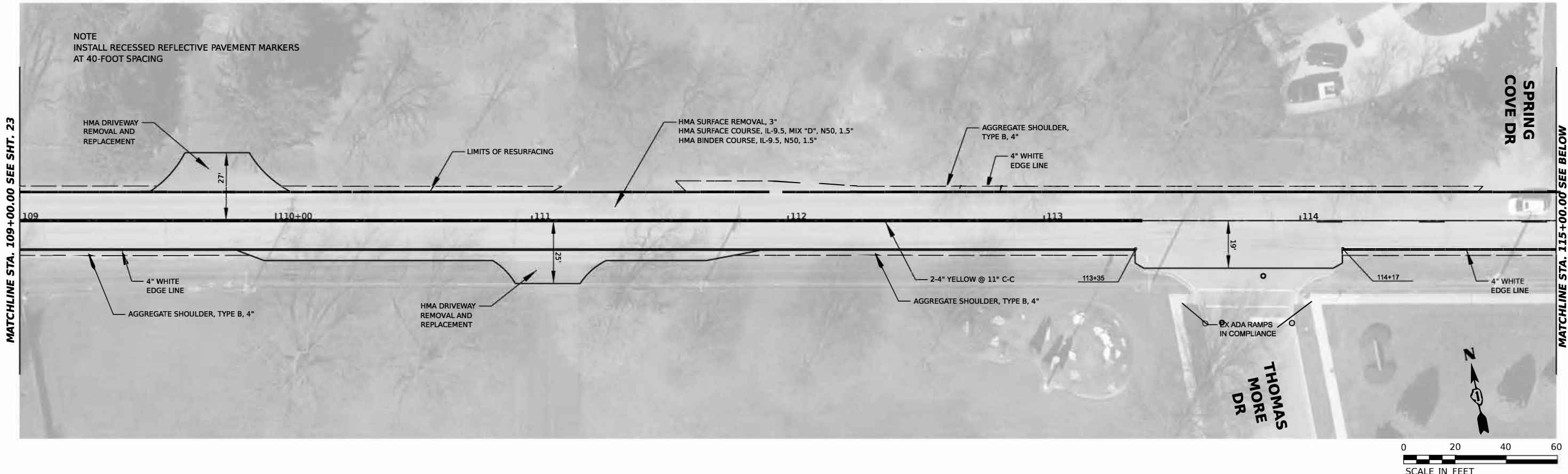
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CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

HIGHLAND AVENUE
PLAN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	50	23
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				



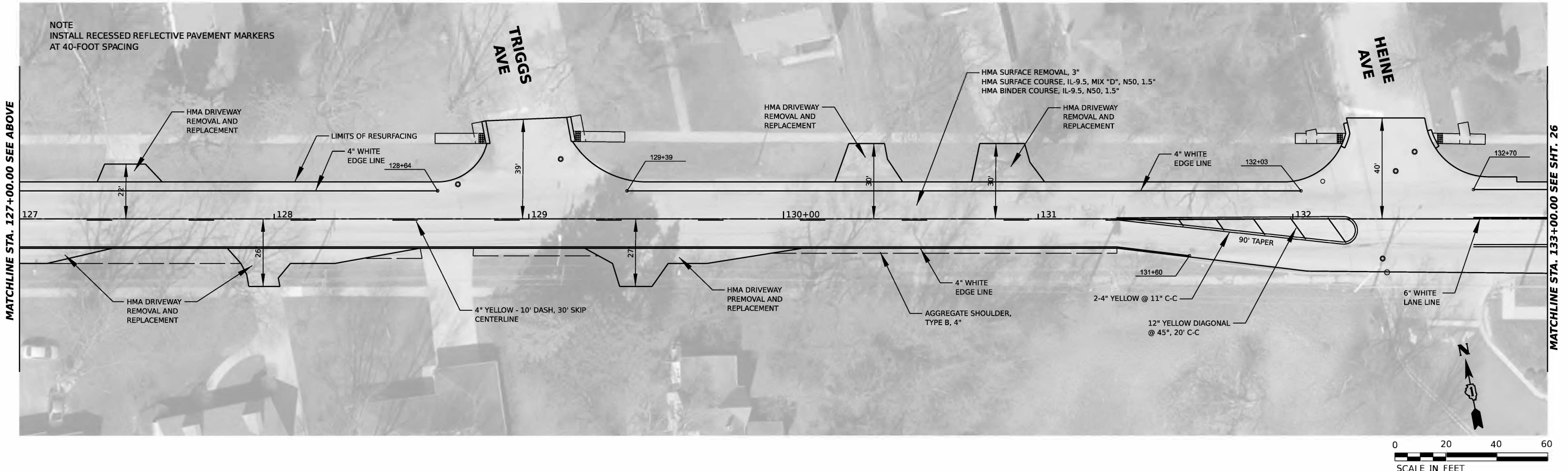
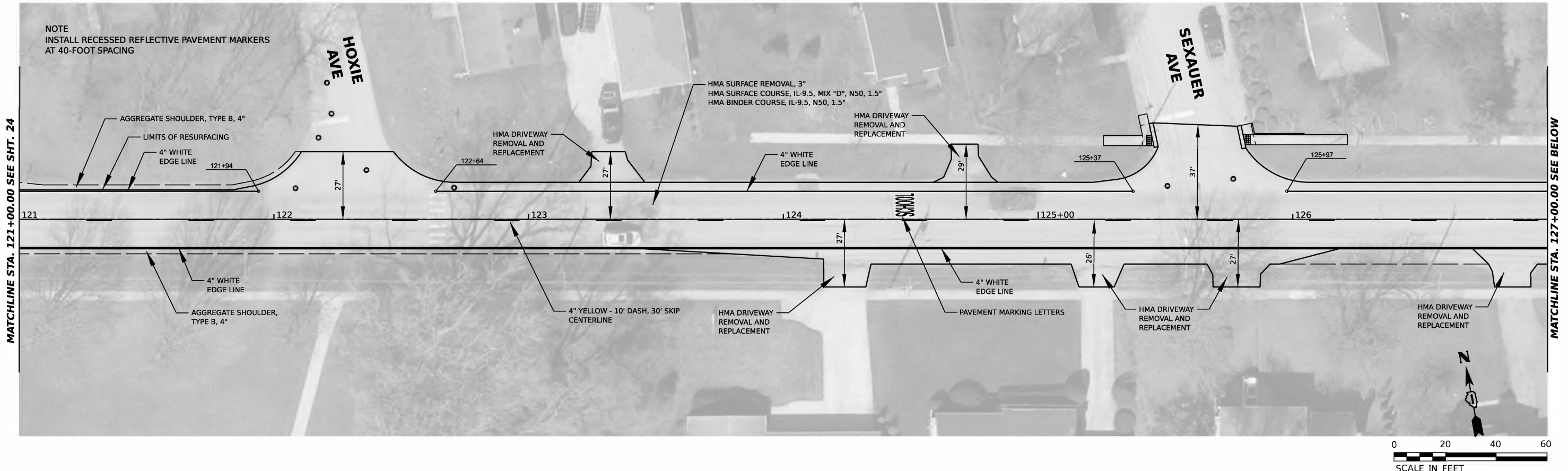
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 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000000

DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -
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PLOT DATE = 1/13/2023	

CITY OF ELGIN
 1900 HOLMES ROAD
 ELGIN, IL 60123

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	50	24
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				



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HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000000

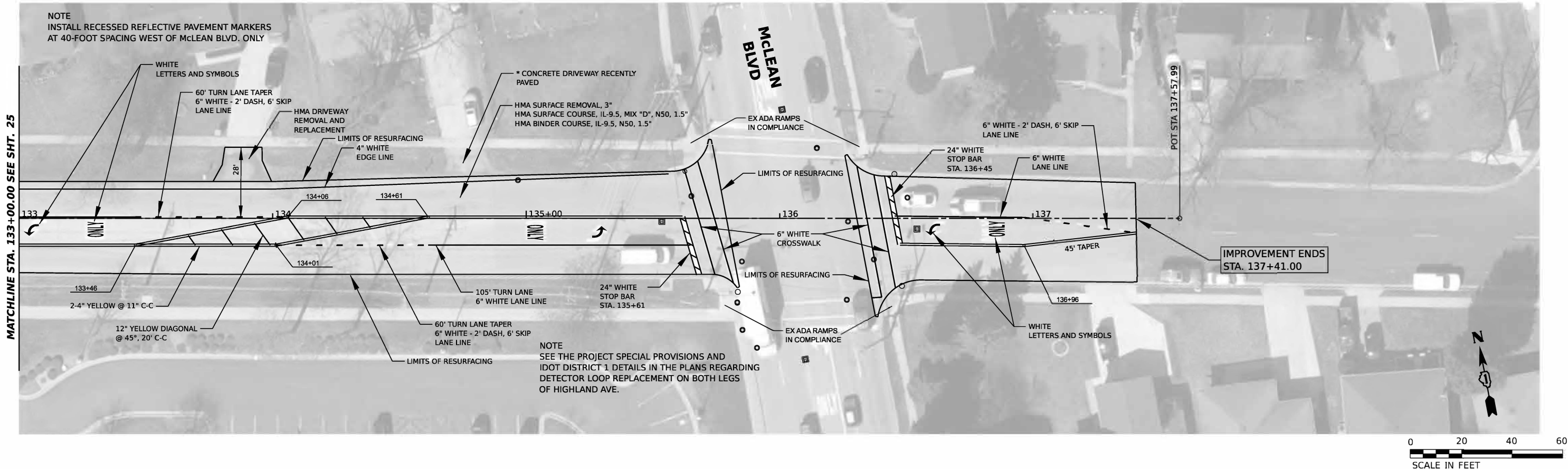
USER NAME = jmeindl
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 PLOT DATE = 1/13/2023

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	50	25
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				



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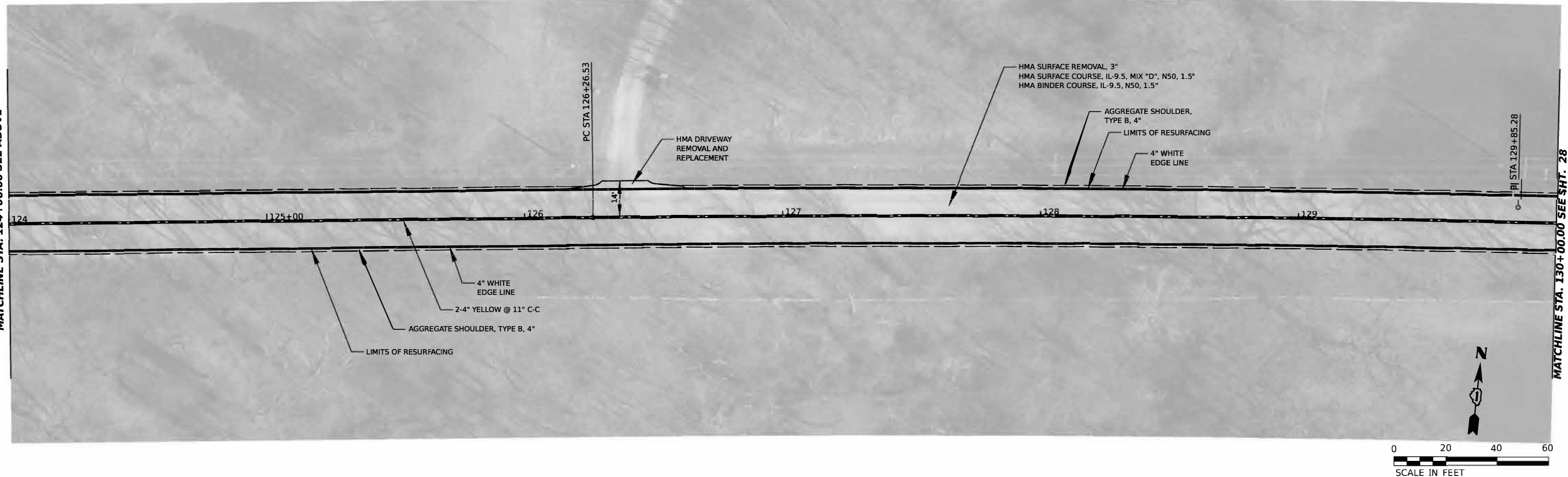
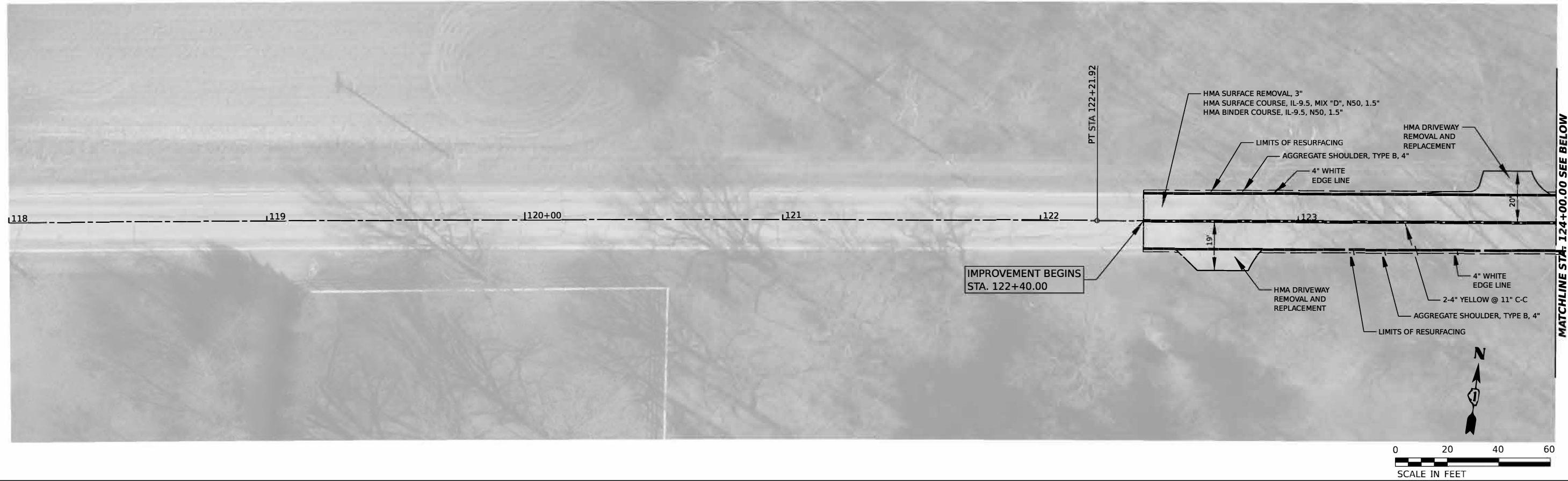
HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000000

USER NAME = jmeindl	DESIGNED -	REVISED -
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	DATE -	REVISED -

CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	50	26
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				



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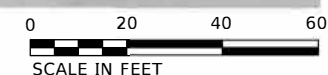
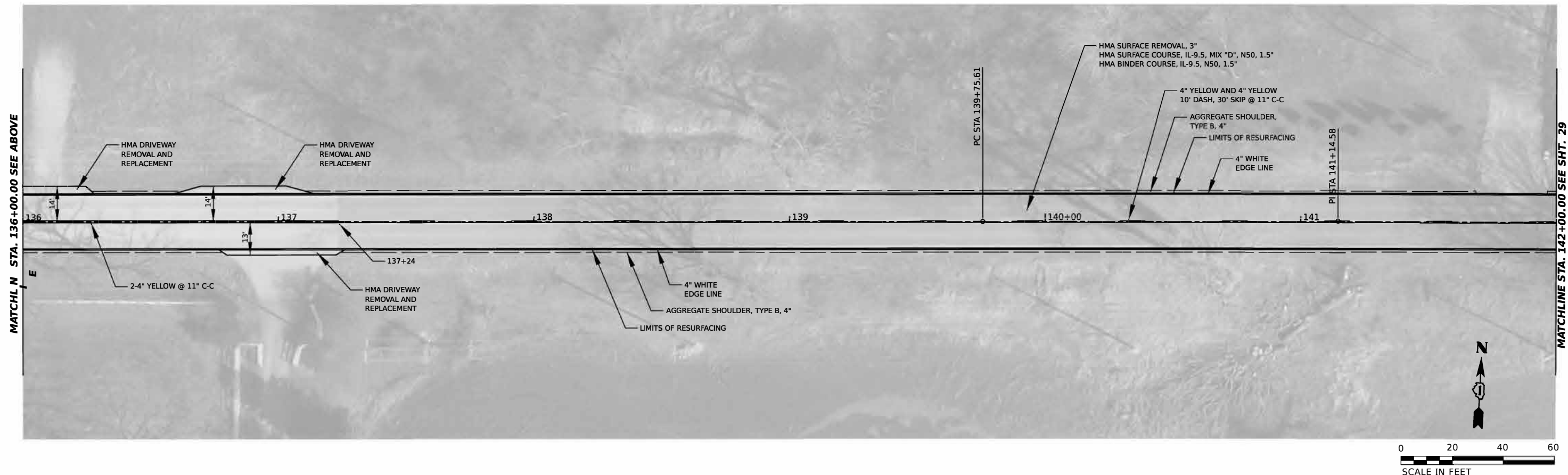
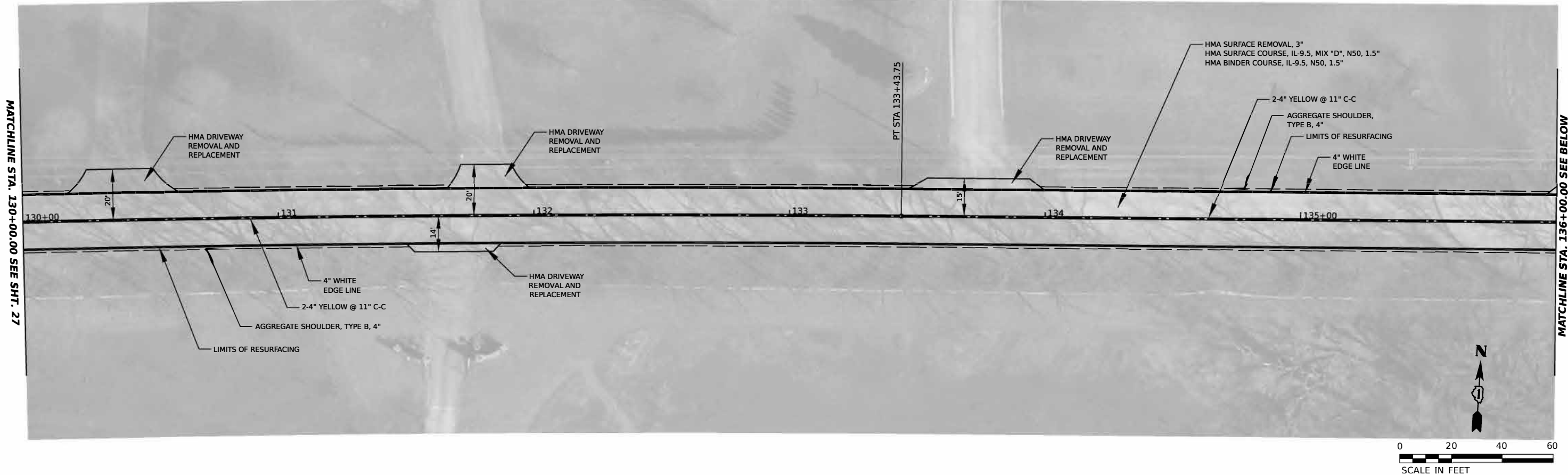
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	ILLINOIS PROFESSIONAL DESIGN FIRM <small>LS / PE / SE CORP. 184.000000</small>	CHECKED - DATE -	REVISED - REVISED -
	PLOT SCALE = 0.16666633 1/in.	REVISIONS:	
	PLOT DATE = 1/13/22		

CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

MCDONALD ROAD
PLAN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	50	27
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				



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HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000000

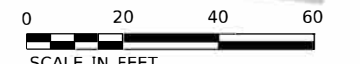
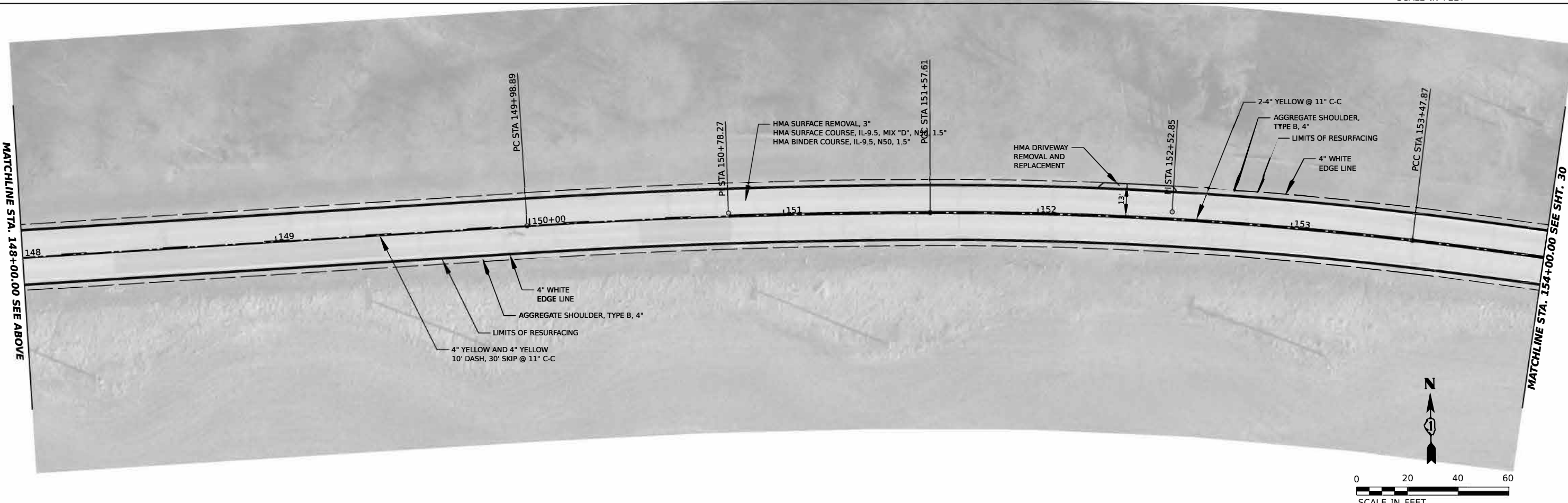
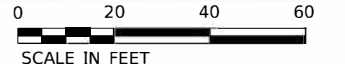
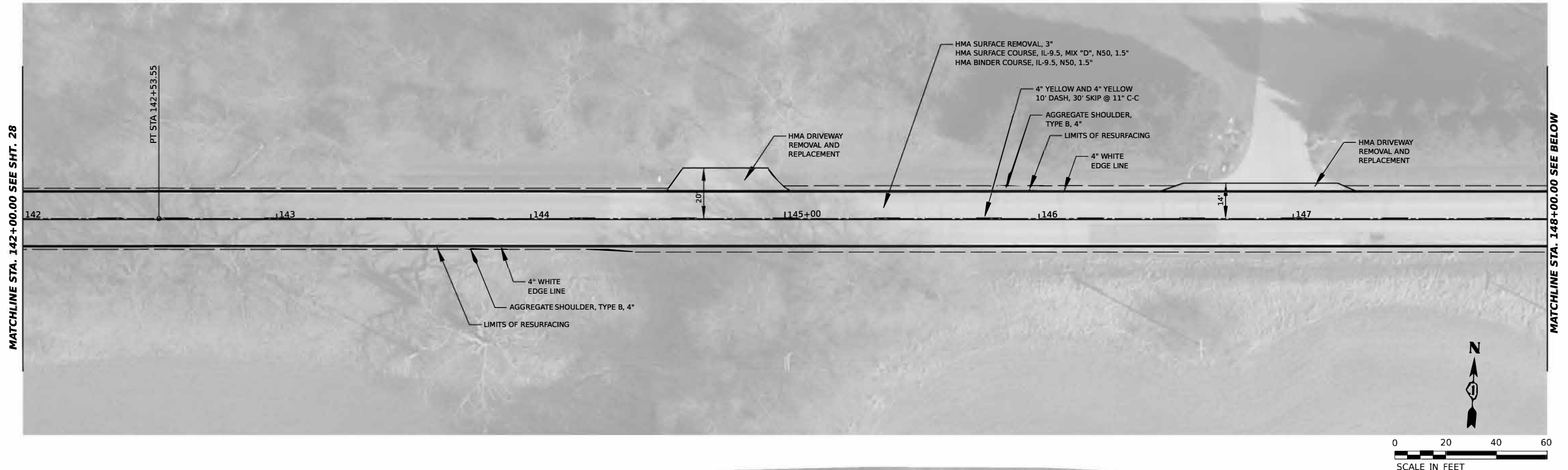
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	DATE -	REVISED -

CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

MCDONALD ROAD
PLAN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	50	28
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				



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HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000000

USER NAME = jmeindl
 PLOT SCALE = 0.16666633 1/ in.
 PLOT DATE = 1/13/2023

DESIGNED -
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 CHECKED -
 DATE -

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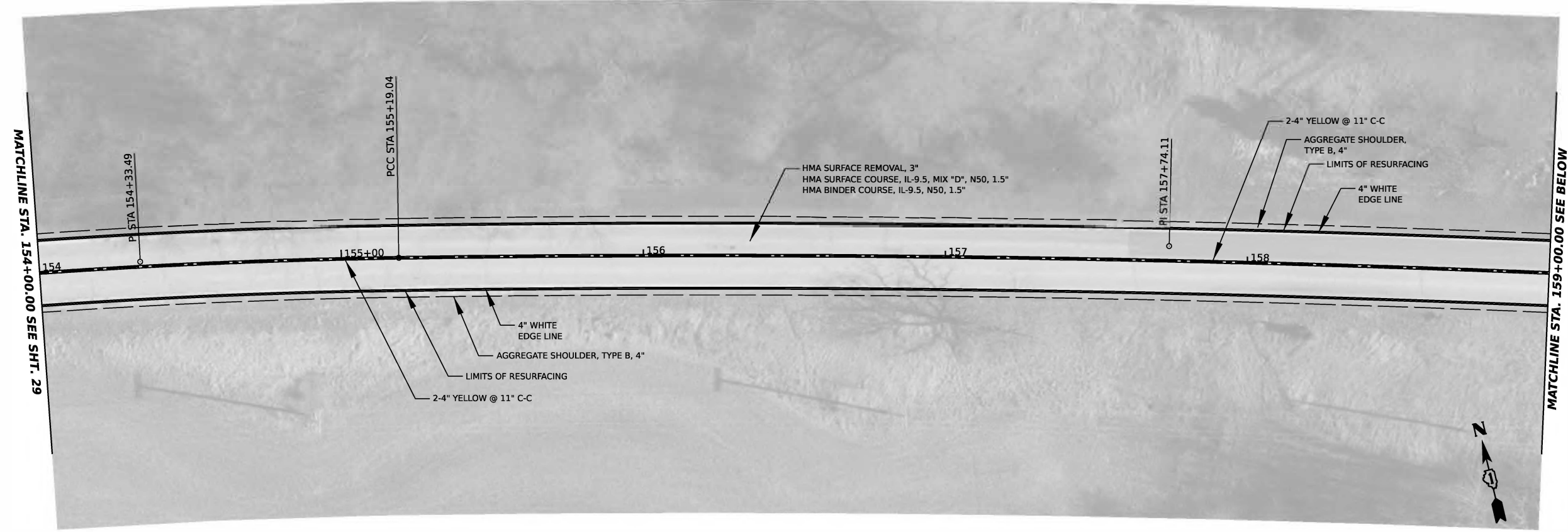
CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

MCDONALD ROAD
PLAN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	50	29
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				

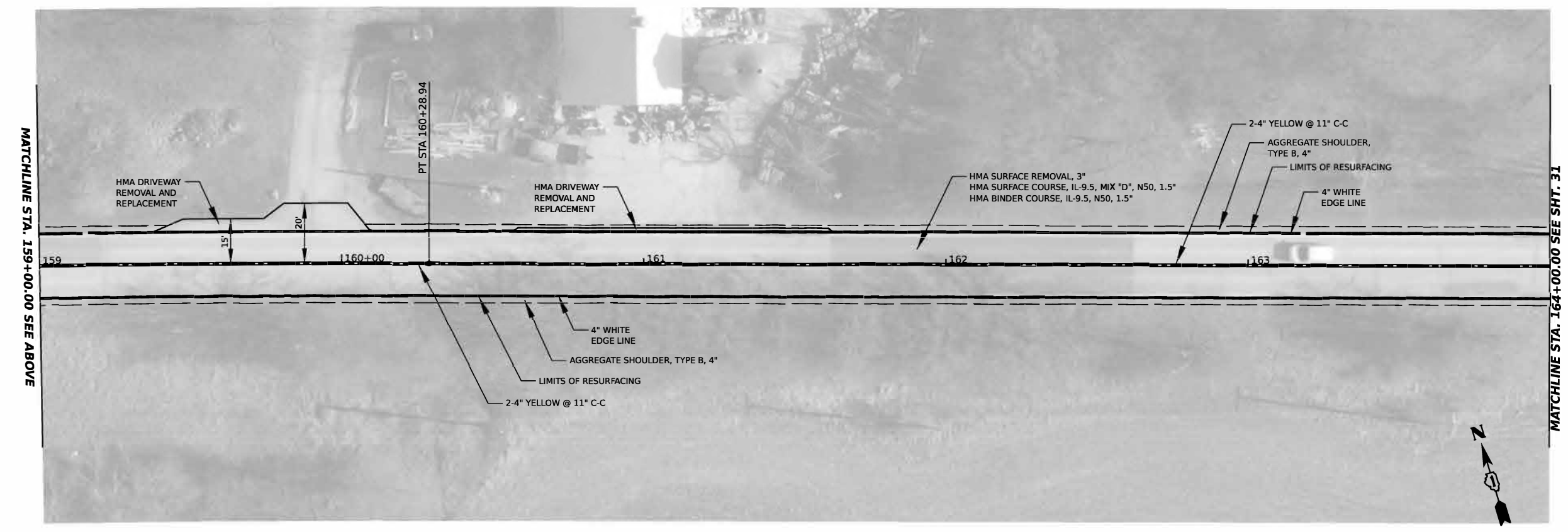
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MATCHLINE STA. 159+00.00 SEE BELOW



MATCHLINE STA. 159+00.00 SEE ABOVE



MATCHLINE STA. 164+00.00 SEE SHT. 31



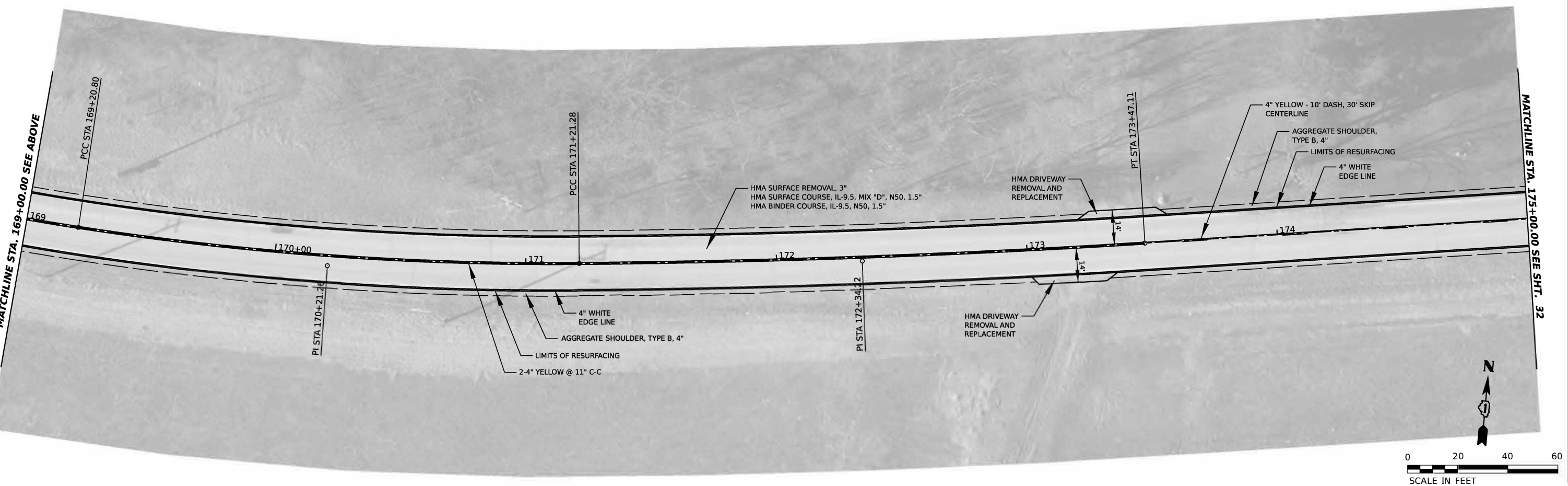
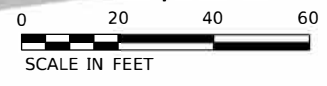
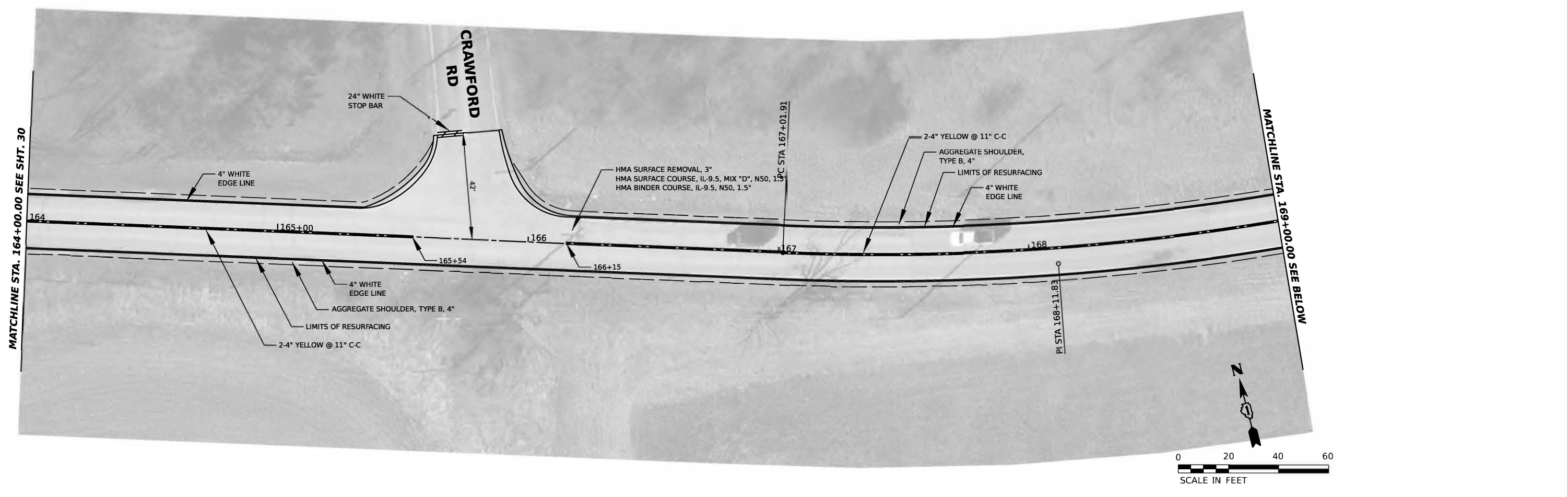
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 HLR ILLINOIS PROFESSIONAL DESIGN FIRM
 1517 E. STATE ST. ELGIN, ILLINOIS 60123
 TEL: 815/398-1100 FAX: 815/398-1101
 WWW.HLR.COM

HAMPTON, LENZINI AND RENWICK, INC. 810 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000000	USER NAME = jmeindl	DESIGNED -	REVISED -
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	PLOT DATE = 1/13/2023	CHECKED -	REVISED -
		DATE -	REVISED -

CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	50	30
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				



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HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000000

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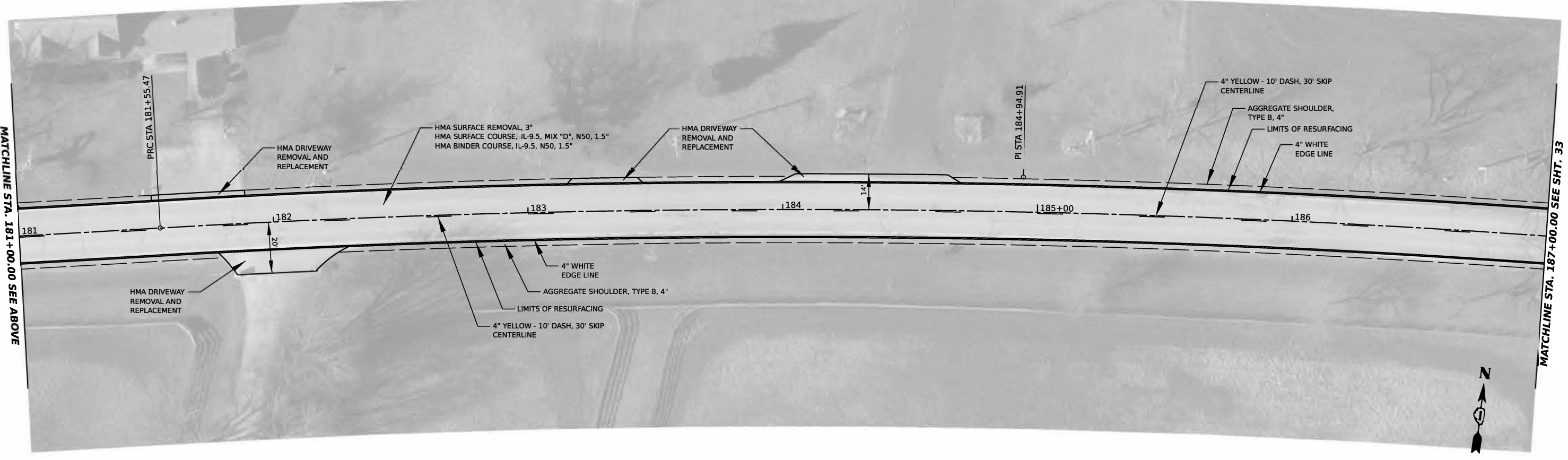
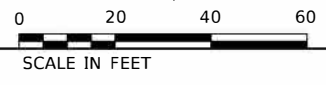
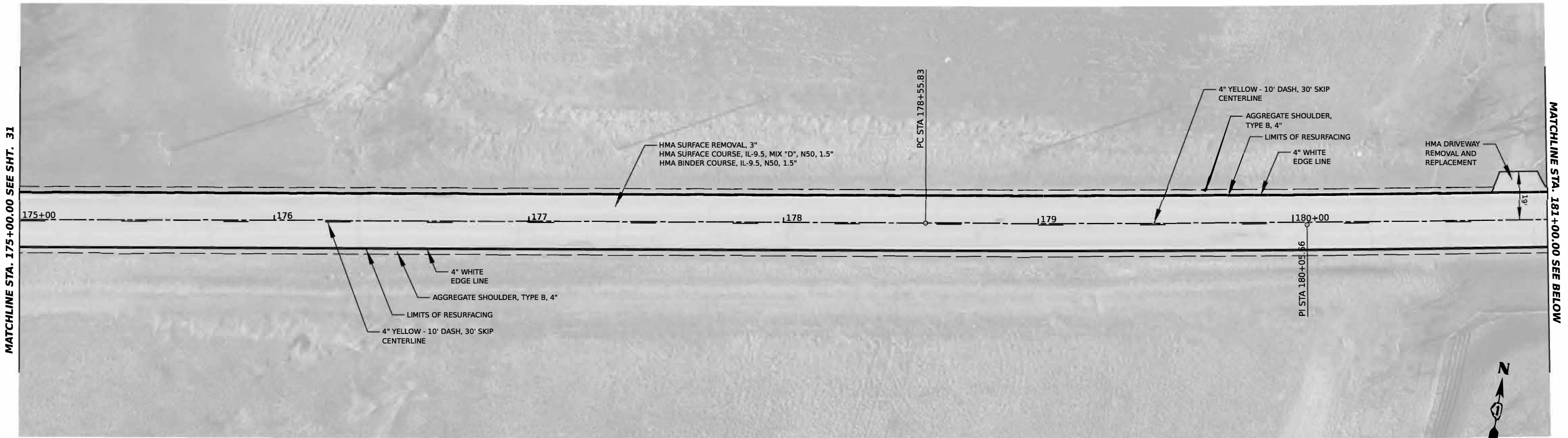
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CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

MCDONALD ROAD
PLAN

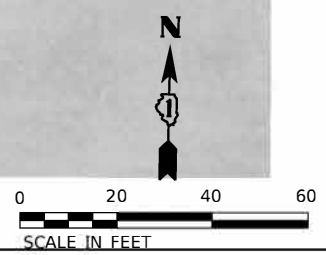
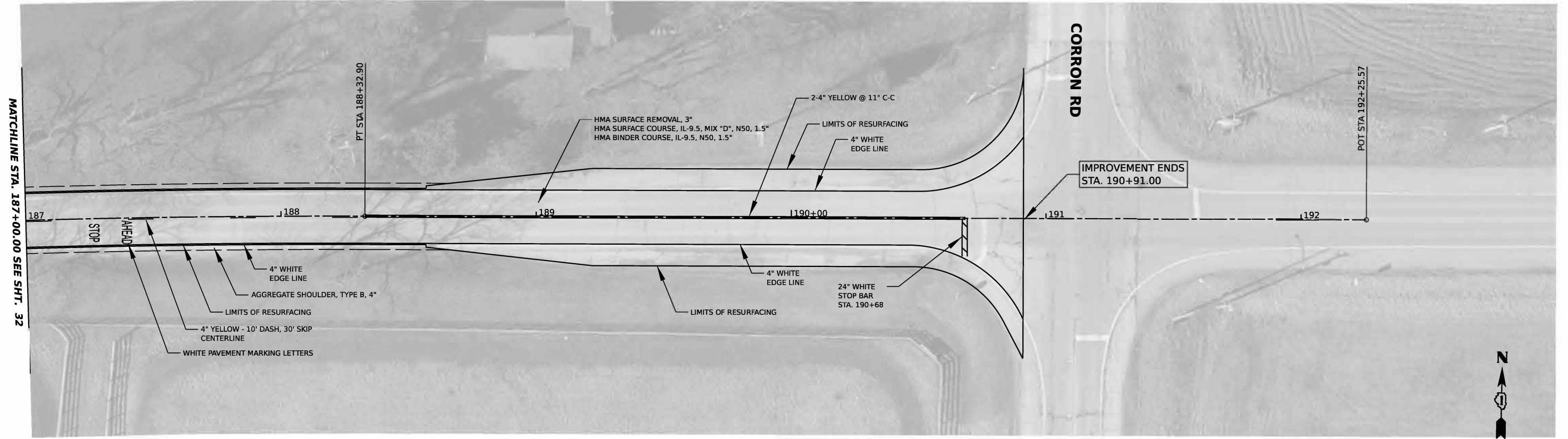
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	50	31
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				



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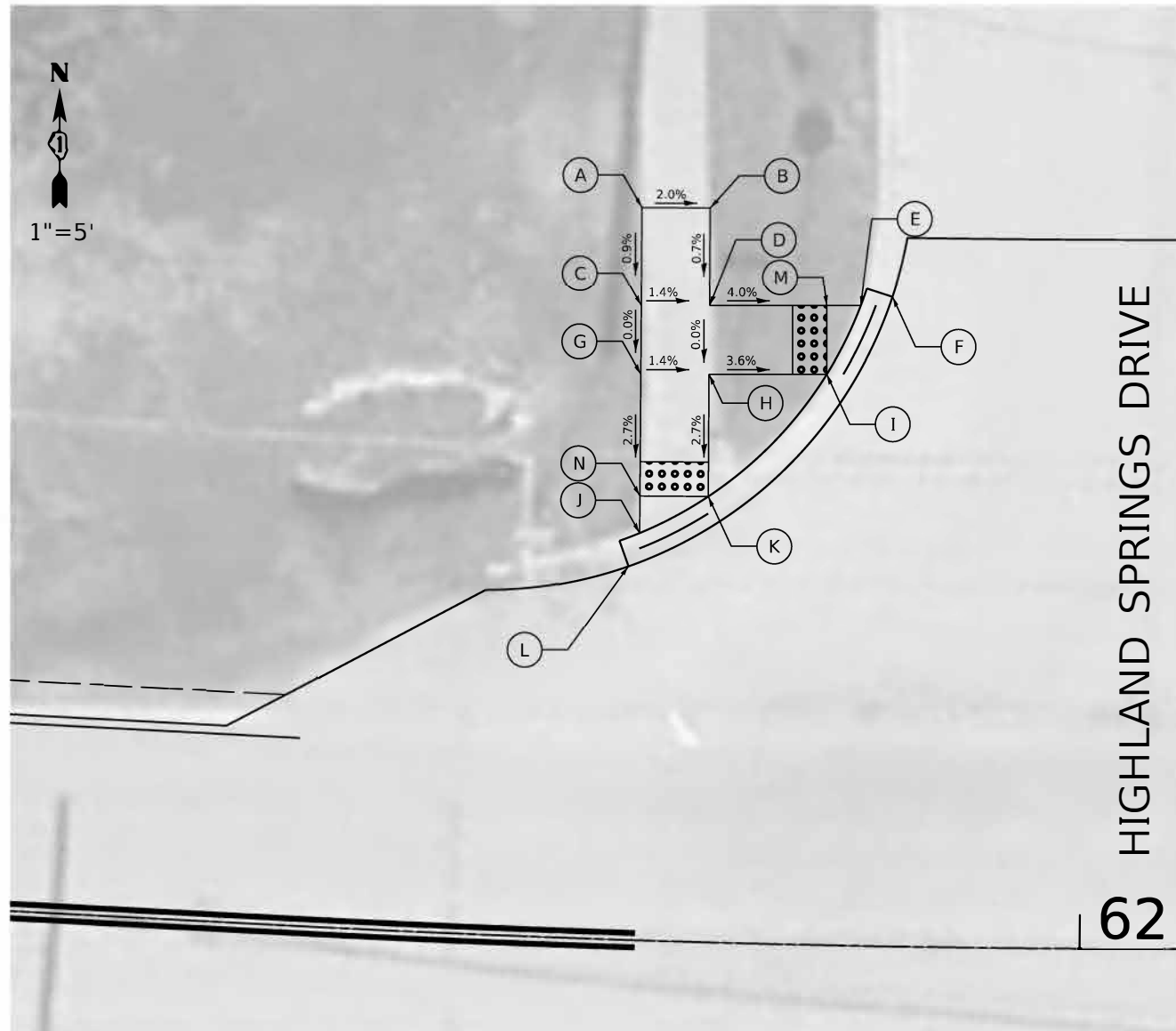
HAMPTON, LENZINI AND RENWICK, INC. <small>380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000000</small>	USER NAME = jmeindl	DESIGNED -	REVISED -	CITY OF ELGIN 1900 HOLMES ROAD ELGIN, IL 60123	MCDONALD ROAD PLAN			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 1/13/2023	CHECKED -	REVISED -					CONTRACT NO. 61J44			
	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								
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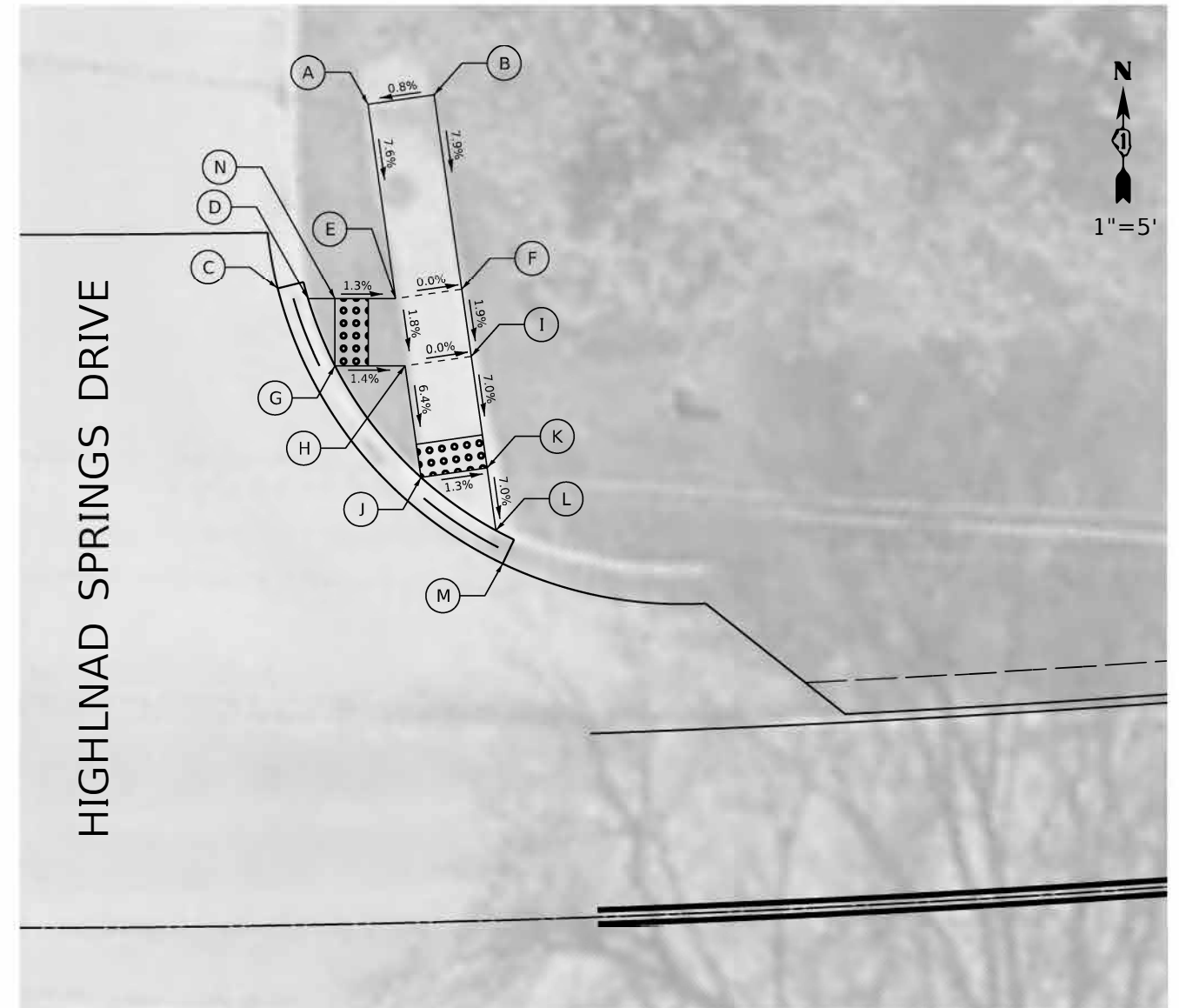
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 HAMPTON, LENZINI AND RENWICK, INC.
 310 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000000

HAMPTON, LENZINI AND RENWICK, INC. <small>310 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000000</small>	USER NAME = jmei ndl	DESIGNED -	REVISED -	CITY OF ELGIN 1900 HOLMES ROAD ELGIN, IL 60123	MCDONALD ROAD PLAN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 1/13/2 3 02	CHECKED -	REVISED -									CONTRACT NO. 61J44	
	DATE -	REVISED -									ILLINOIS FED. AID PROJ	

HIGHLAND AVENUE



HIGHLAND AVENUE



	STATION	OFFSET	ELEVATION
A	61+72.9	42.9' LT	854.67
B	61+77.1	43.0' LT	854.59
C	61+73.1	37.1' LT	854.62
D	61+77.2	37.2' LT	854.55
E	61+86.4	37.5' LT	854.26
F	61+88.3	38.0' LT	854.26
G	61+73.2	33.1' LT	854.62
H	61+77.3	33.2' LT	854.55
I	61+84.4	33.4' LT	854.30
J	61+73.4	23.9' LT	854.43
K	61+77.5	26.1' LT	854.36
L	61+72.8	21.9' LT	854.43
M	61+84.3	37.4' LT	854.28
N	61+73.4	26.0' LT	854.43

	STATION	OFFSET	ELEVATION
A	62+29.5	49.0' LT	854.33
B	62+33.6	49.5' LT	854.36
C	62+23.6	38.1' LT	853.50
D	62+25.5	37.5' LT	853.50
E	62+30.9	37.3' LT	853.43
F	62+35.0	37.8' LT	853.43
G	62+27.0	33.4' LT	853.42
H	62+31.4	33.3' LT	853.36
I	62+35.5	33.8' LT	853.36
J	62+32.2	26.6' LT	852.93
K	62+36.3	27.1' LT	852.88
L	62+36.7	23.3' LT	852.62
M	62+37.1	21.4' LT	852.60
N	62+27.1	37.4' LT	853.48

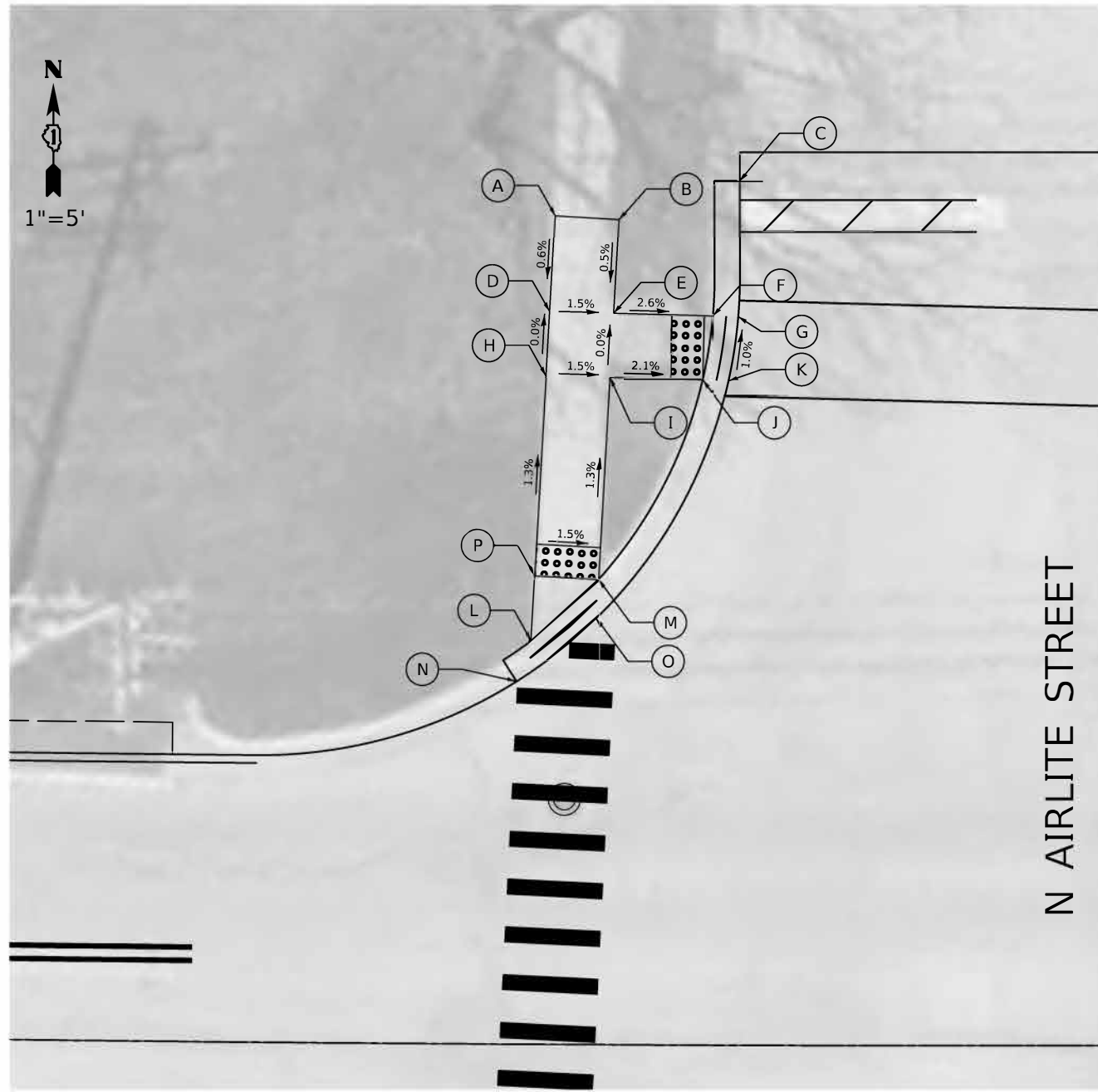
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HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000059	USER NAME = jmeindl DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	CITY OF ELGIN 1900 HOLMES ROAD ELGIN, IL 60123	RESURFACING AND SIDEWALK IMPROVEMENTS CROSSWALK GRADING PLANS: HIGHLAND AVENUE	F.A. RTE. 0170 SECTION 21-00190-00-RS COUNTY KANE TOTAL SHEETS 50 SHEET NO. 34 CONTRACT NO. 61J44 ILLINOIS FED. AID PROJECT
	PLOT SCALE = 10.0000' / in. PLOT DATE = 1/13/2023	SCALE: 1"=5' SHEET OF SHEETS STA. TO STA.			

HIGHLAND AVENUE

HIGHLAND AVENUE



	STATION	OFFSET	ELEVATION
A	89+41.6	51.9' LT	808.42
B	89+45.6	51.7' LT	808.34
C	89+53.2	54.2' LT	807.99
D	89+41.2	46.1' LT	808.34
E	89+45.3	45.9' LT	808.28
F	89+51.6	45.7' LT	808.12
G	89+53.2	45.7' LT	808.12
H	89+41.0	42.1' LT	808.34
I	89+45.1	41.9' LT	808.28
J	89+50.9	41.7' LT	808.16
K	89+52.6	41.7' LT	808.16
L	89+40.2	25.3' LT	808.55
M	89+44.4	29.2' LT	808.44
N	89+39.3	22.7' LT	808.55
O	89+44.3	26.7' LT	808.44
P	89+40.4	29.4' LT	808.50

LEGEND ON SHEET 2

MODEL: A04-3
 FILE NAME: P:\2021\10759\Cad02 Design\CADD Sheets\10759-Int-ADA Highland.dgn

HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000059

USER NAME = jmeindl
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 1/13/2023

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

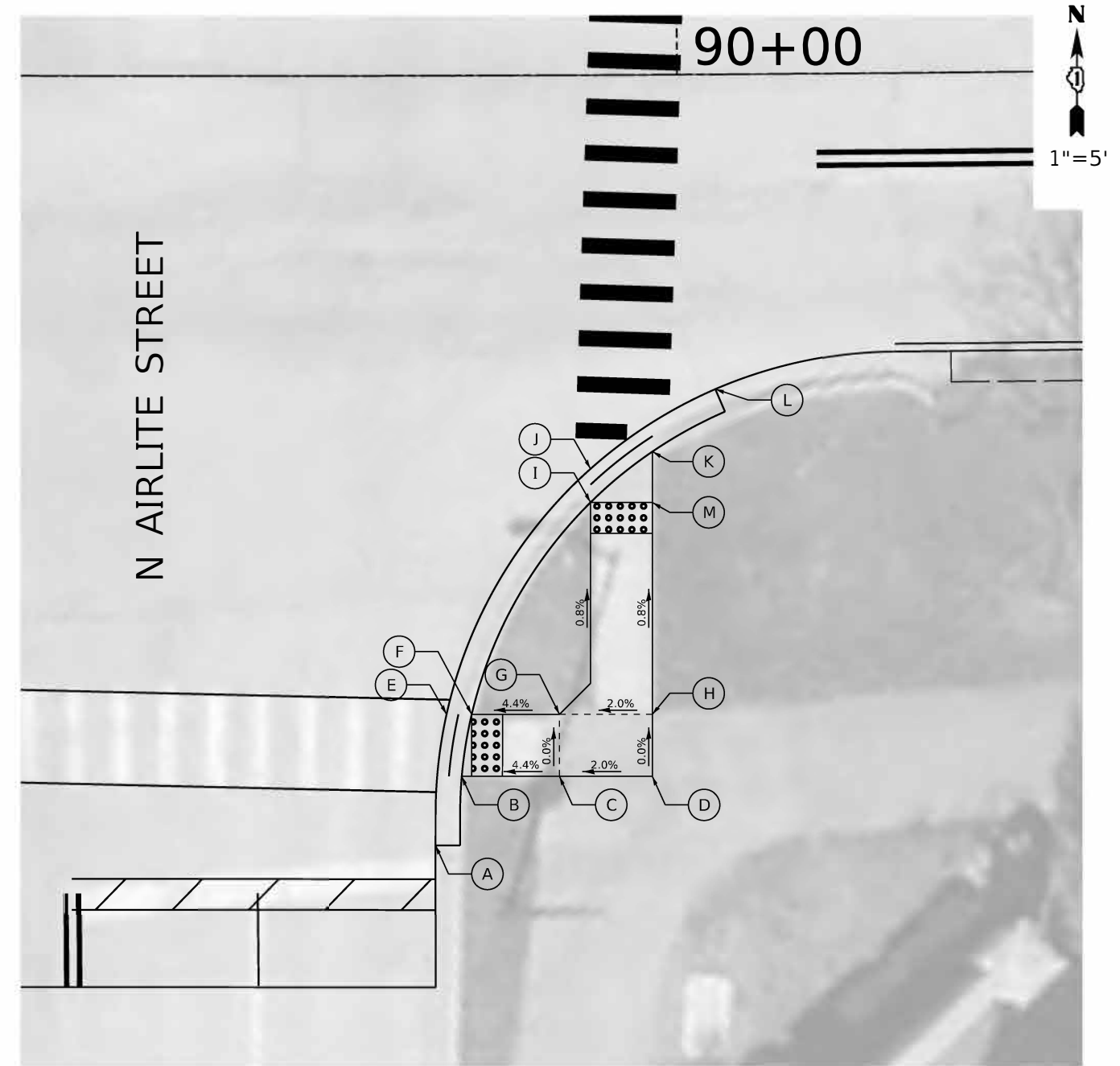
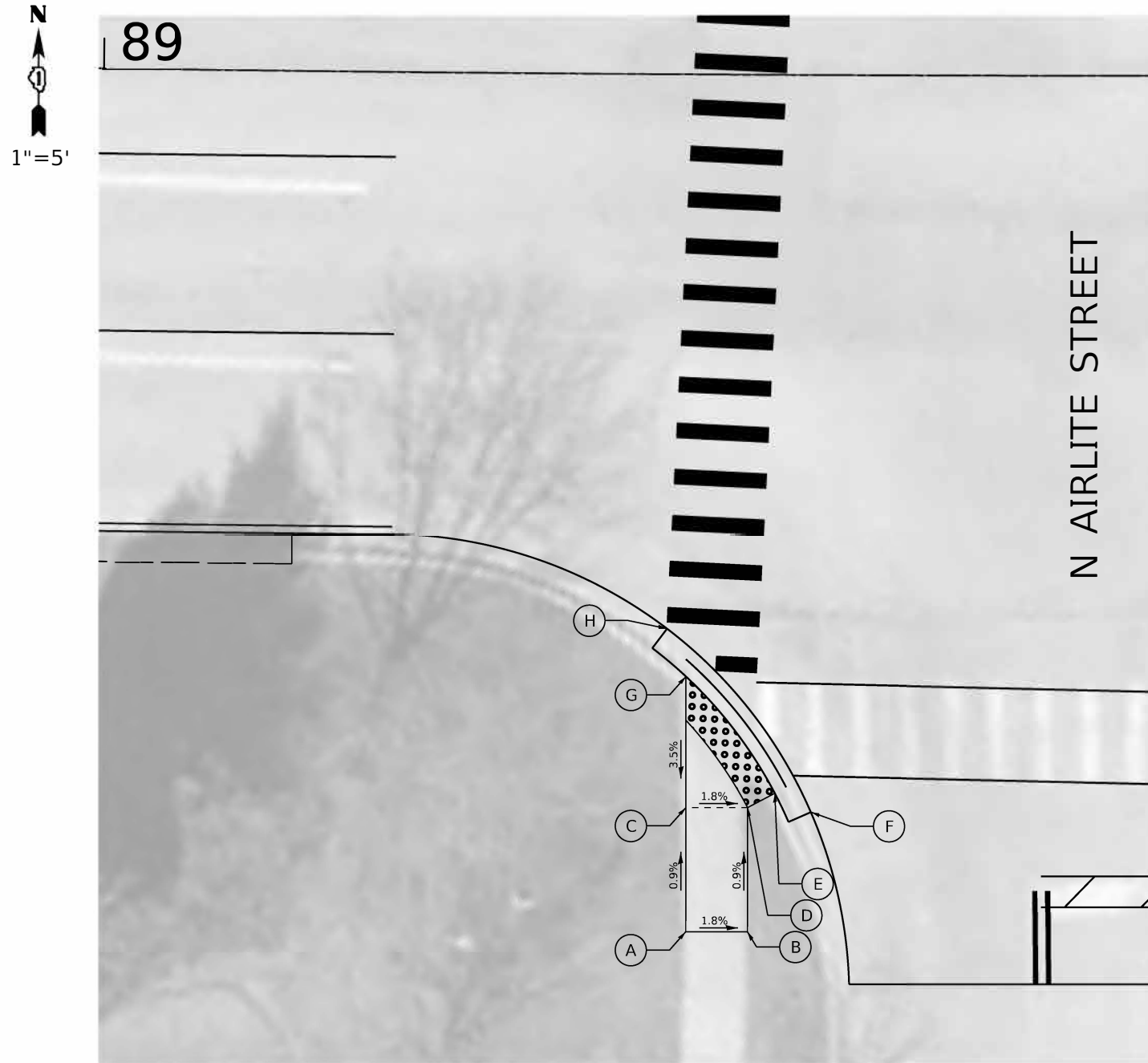
RESURFACING AND SIDEWALK IMPROVEMENTS
CROSSWALK GRADING PLANS:
HIGHLAND AVENUE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	35
				CONTRACT NO. 61J44
ILLINOIS FED. AID PROJECT				

HIGHLAND AVENUE

HIGHLAND AVENUE



	STATION	OFFSET	ELEVATION
A	89+38.1	55.7' RT	808.77
B	89+42.1	55.6' RT	808.70
C	89+38.1	47.6' RT	808.70
D	89+42.1	47.6' RT	808.63
E	89+43.8	46.6' RT	808.60
F	89+46.1	47.9' RT	808.55
G	89+38.0	39.1' RT	809.00
H	89+36.8	36.0' RT	809.09

	STATION	OFFSET	ELEVATION
A	89+84.2	49.8' RT	808.34
B	89+85.9	45.3' RT	808.35
C	89+92.2	45.4' RT	808.63
D	89+98.1	45.4' RT	808.75
E	89+85.0	41.3' RT	808.38
F	89+86.6	41.3' RT	808.38
G	89+92.2	41.4' RT	808.63
H	89+98.2	41.4' RT	808.75
I	89+94.3	27.7' RT	808.62
J	89+94.3	25.5' RT	808.62
K	89+98.3	24.4' RT	808.62
L	90+02.3	20.4' RT	808.68
M	89+98.2	27.7' RT	808.68

LEGEND ON SHEET 2

MODEL: A04-3
FILE NAME: P:\2021\12\10\96\CADD_Sheets\1210769-INT-ADA_Highland.dgn

 HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000059	USER NAME = jmeindl	DESIGNED -	REVISED -
	PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
	PLOT DATE = 1/13/2023	CHECKED -	REVISED -
		DATE -	REVISED -

CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

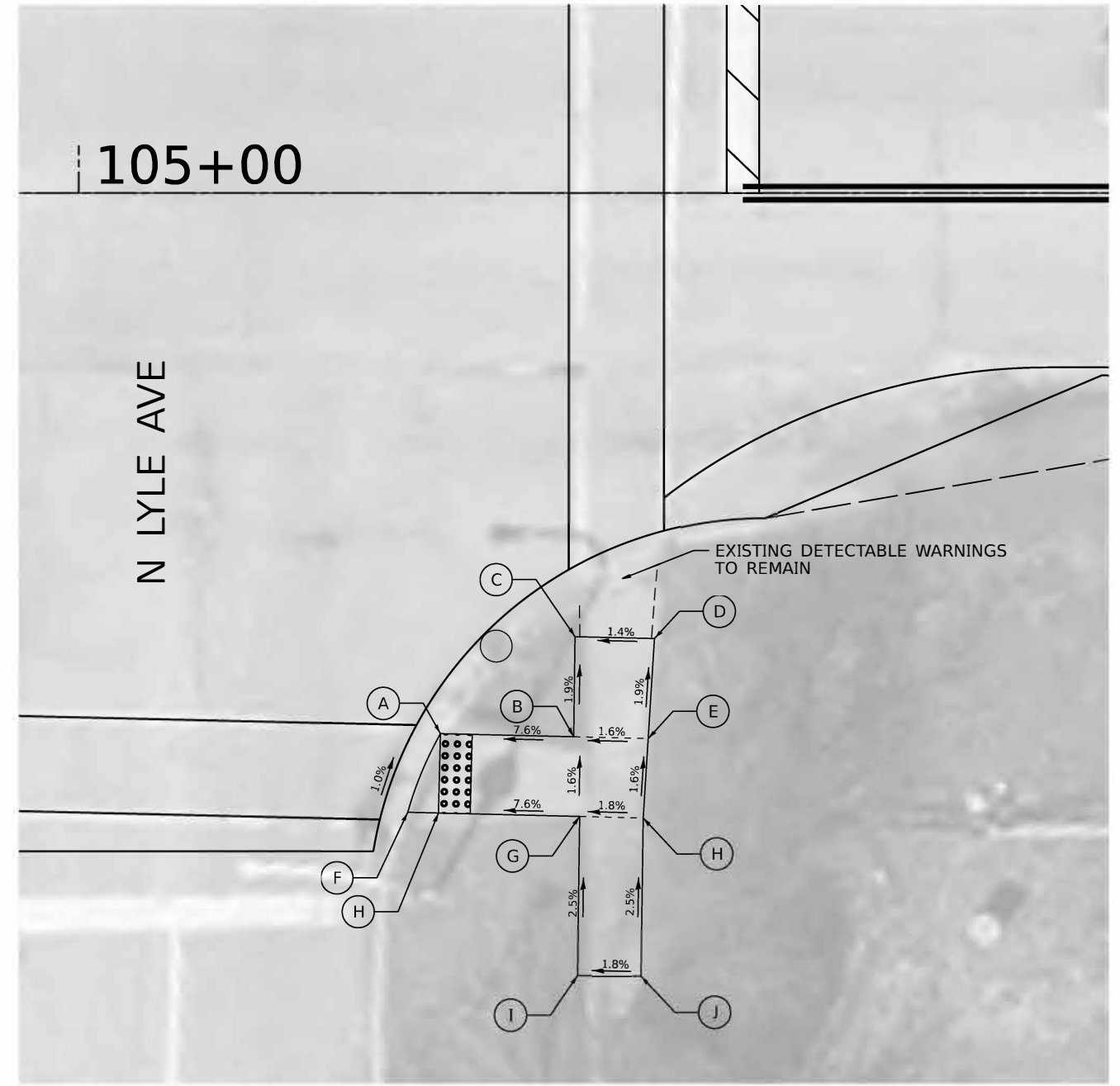
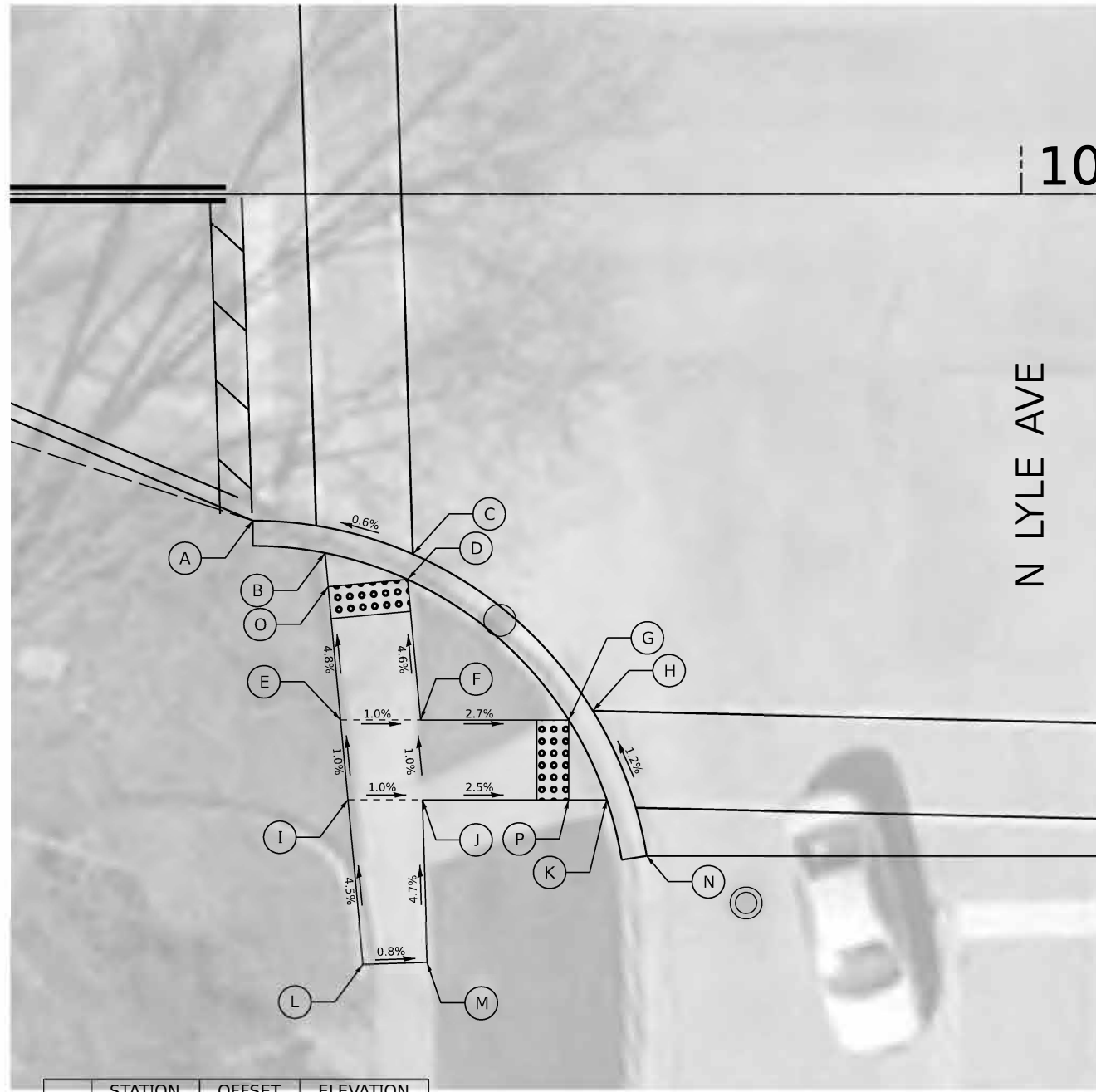
RESURFACING AND SIDEWALK IMPROVEMENTS
CROSSWALK GRADING PLANS:
HIGHLAND AVENUE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J44	

HIGHLAND AVENUE

HIGHLAND AVENUE



	STATION	OFFSET	ELEVATION
A	104+51.8	20.5' RT	806.68
B	104+56.3	22.5' RT	806.70
C	104+61.8	22.6' RT	806.74
D	104+61.5	24.2' RT	806.74
E	104+57.3	33.0' RT	807.20
F	104+62.3	33.0' RT	807.15
G	104+71.6	33.0' RT	806.90
H	104+73.1	32.4' RT	806.90
I	104+57.7	38.0' RT	807.25
J	104+62.4	38.0' RT	807.20
K	104+74.0	38.0' RT	806.96
L	104+58.7	48.3' RT	807.71
M	104+62.7	48.2' RT	807.68
N	104+76.4	41.5' RT	807.01
O	104+56.5	24.6' RT	806.80
P	104+71.6	38.0' RT	806.97

	STATION	OFFSET	ELEVATION
A	105+22.8	34.1' RT	807.06
B	105+31.2	34.3' RT	807.70
C	105+31.3	28.0' RT	807.58
D	105+36.3	28.1' RT	807.65
E	105+35.9	34.4' RT	807.77
F	105+20.8	39.1' RT	807.10
G	105+31.6	39.3' RT	807.78
H	105+35.6	39.4' RT	807.85
I	105+31.5	49.4' RT	808.03
J	105+35.5	49.4' RT	808.10
H	105+22.7	39.1' RT	807.14

LEGEND ON SHEET 2

MODEL: A04-4
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HAMPTON, LENZINI AND RENWICK, INC.
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 164-000959

USER NAME = jrmelld
 PLOT SCALE = 1"=5'
 PLOT DATE = 1/13/2023

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

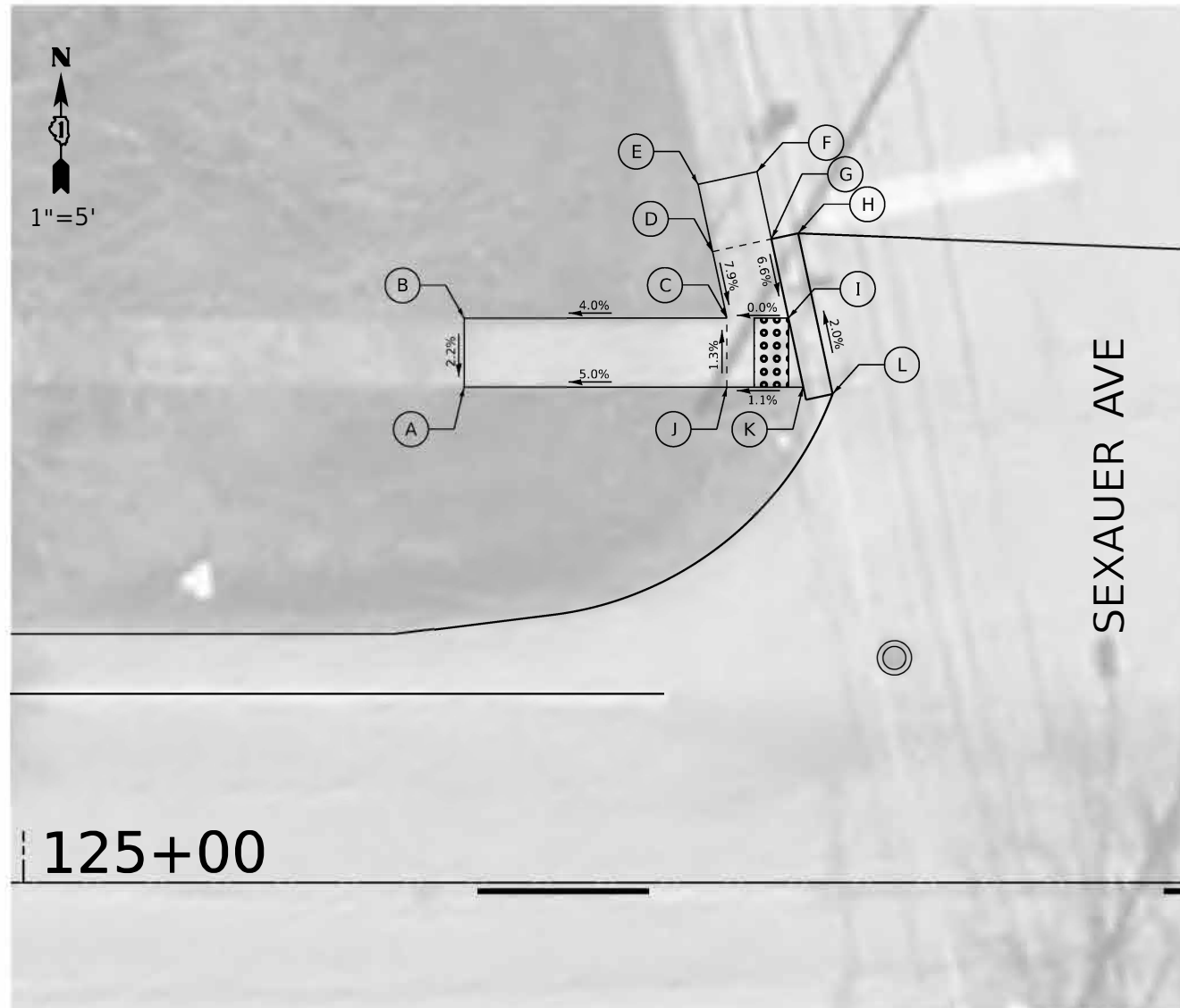
RESURFACING AND SIDEWALK IMPROVEMENTS
CROSSWALK GRADING PLANS:
HIGHLAND AVENUE

SCALE: 1"=5'

SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	37
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J44	

HIGHLAND AVENUE



125+00

	STATION	OFFSET	ELEVATION
A	125+25.7	28.9' LT	806.24
B	125+25.7	32.9' LT	806.33
C	125+41.0	32.9' LT	806.95
D	125+40.2	36.8' LT	807.26
E	125+39.3	40.7' LT	807.23
F	125+42.8	41.4' LT	807.09
G	125+43.6	37.5' LT	807.26
H	125+45.1	37.8' LT	806.85
I	125+44.6	32.9' LT	806.95
J	125+41.0	28.9' LT	807.00
K	125+45.5	28.9' LT	807.05
L	125+47.2	28.5' LT	807.05

HIGHLAND AVENUE



126

	STATION	OFFSET	ELEVATION
A	125+80.1	27.7' LT	807.55
B	125+81.4	29.2' LT	807.55
C	125+85.4	29.2' LT	807.55
D	126+01.5	29.2' LT	808.70
E	126+21.5	29.2' LT	810.14
F	125+80.5	33.2' LT	807.47
G	125+84.6	33.2' LT	807.53
H	126+01.5	33.2' LT	808.77
I	126+21.5	33.2' LT	810.29
J	125+78.2	36.5' LT	807.38
K	125+79.7	36.8' LT	807.80
L	125+83.6	37.7' LT	807.95

LEGEND ON SHEET 2

MODEL: A04-S
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HAMPTON, LENZINI AND RENWICK, INC. <small>390 SHEPARD DRIVE ELGIN, ILLINOIS 60123</small> <small>ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000059</small>	USER NAME = jmeindl	DESIGNED -	REVISED -
	PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
	PLOT DATE = 1/13/2023	CHECKED -	REVISED -
		DATE -	REVISED -

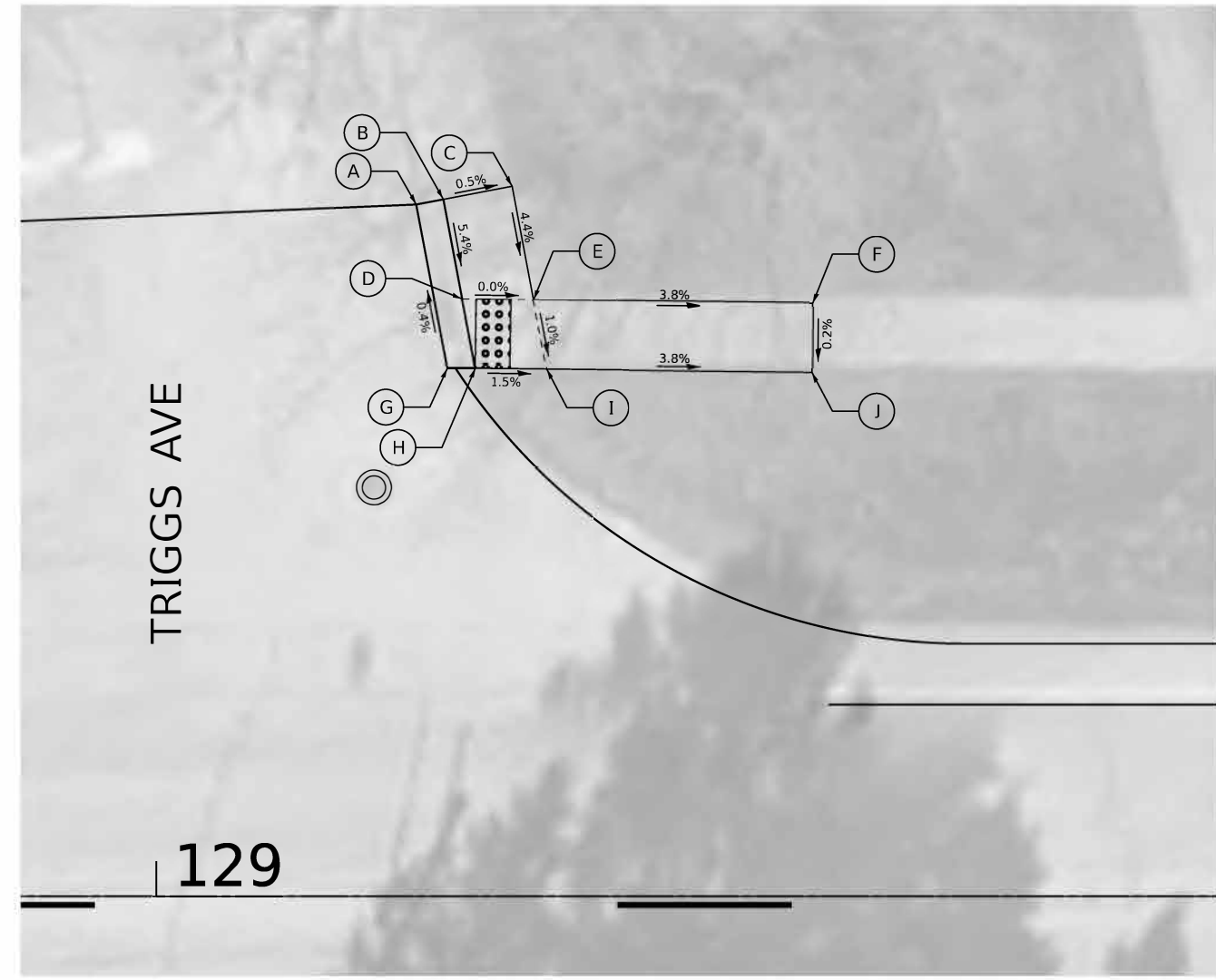
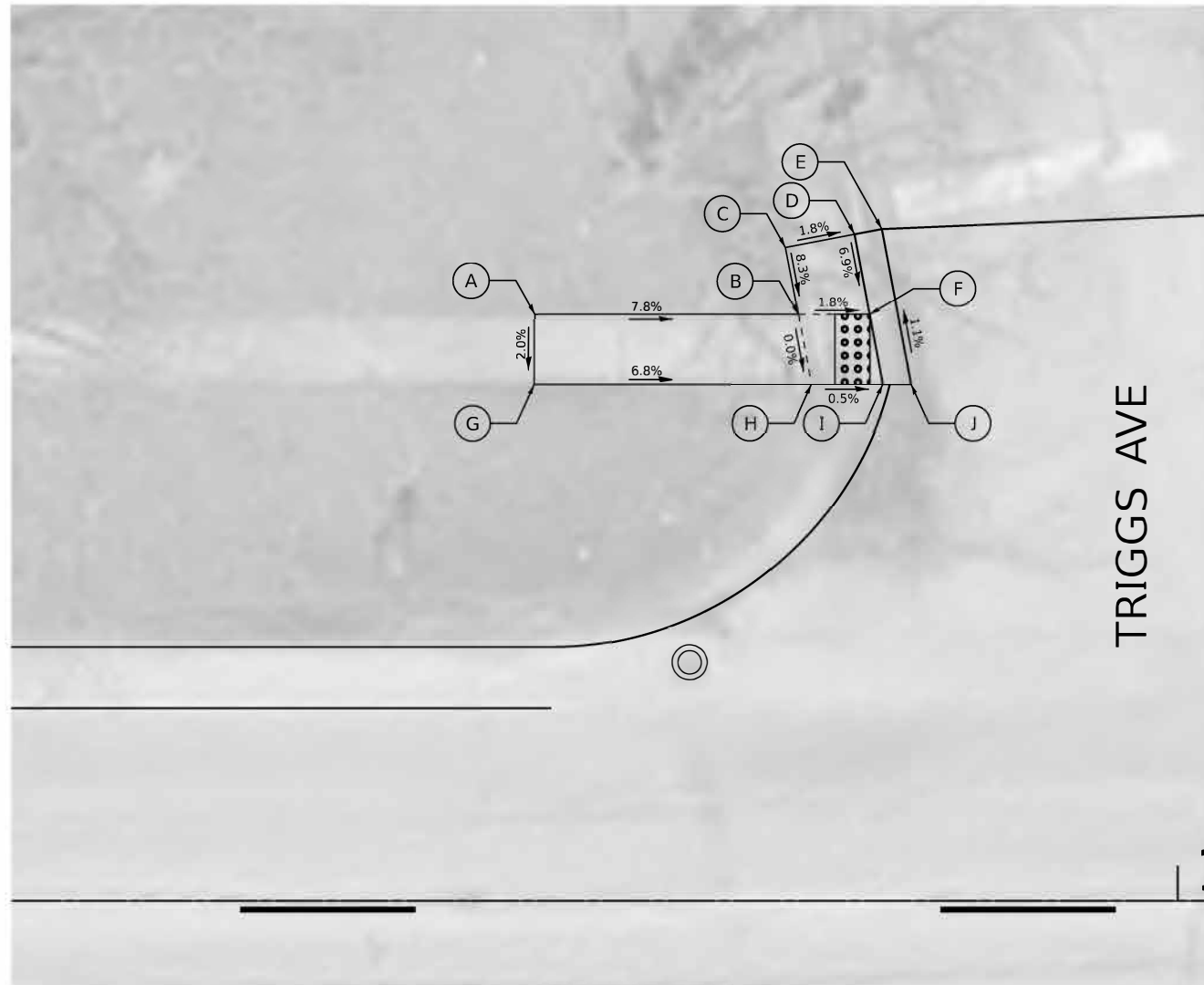
CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

RESURFACING AND SIDEWALK IMPROVEMENTS			
CROSSWALK GRADING PLANS:			
HIGHLAND AVENUE			
SCALE: 1"=5'	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	38
				CONTRACT NO. 61J44
ILLINOIS FED. AID PROJECT				

HIGHLAND AVENUE

HIGHLAND AVENUE



	STATION	OFFSET	ELEVATION
A	128+63.2	33.5' LT	813.68
B	128+78.3	33.5' LT	812.52
C	128+77.6	37.3' LT	812.84
D	128+81.5	38.1' LT	812.77
E	128+83.1	38.4' LT	812.40
F	128+82.4	33.5' LT	812.45
G	128+63.2	29.5' LT	813.60
H	128+79.1	29.5' LT	812.52
I	128+83.2	29.5' LT	812.50
J	128+84.8	29.5' LT	812.50

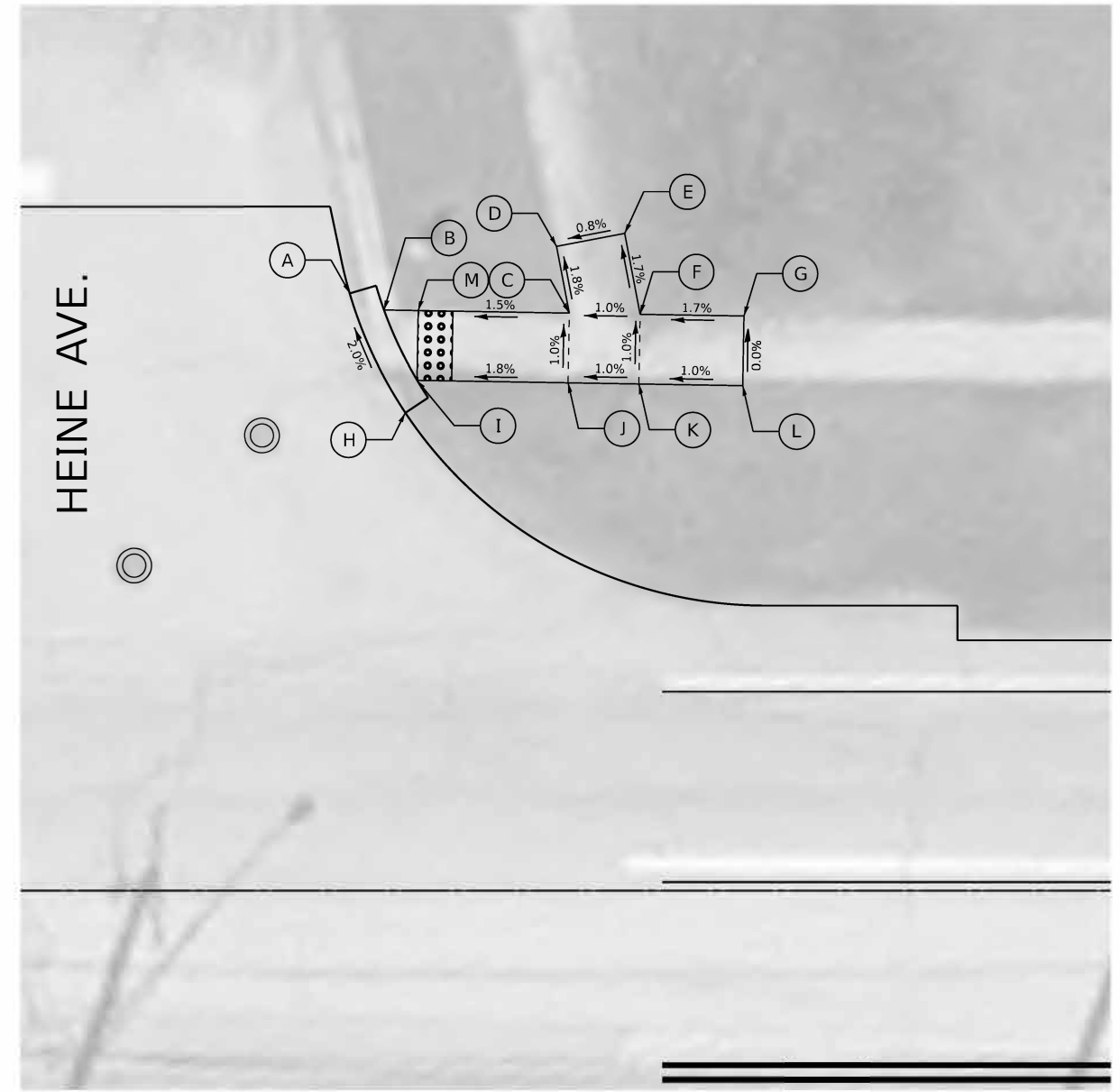
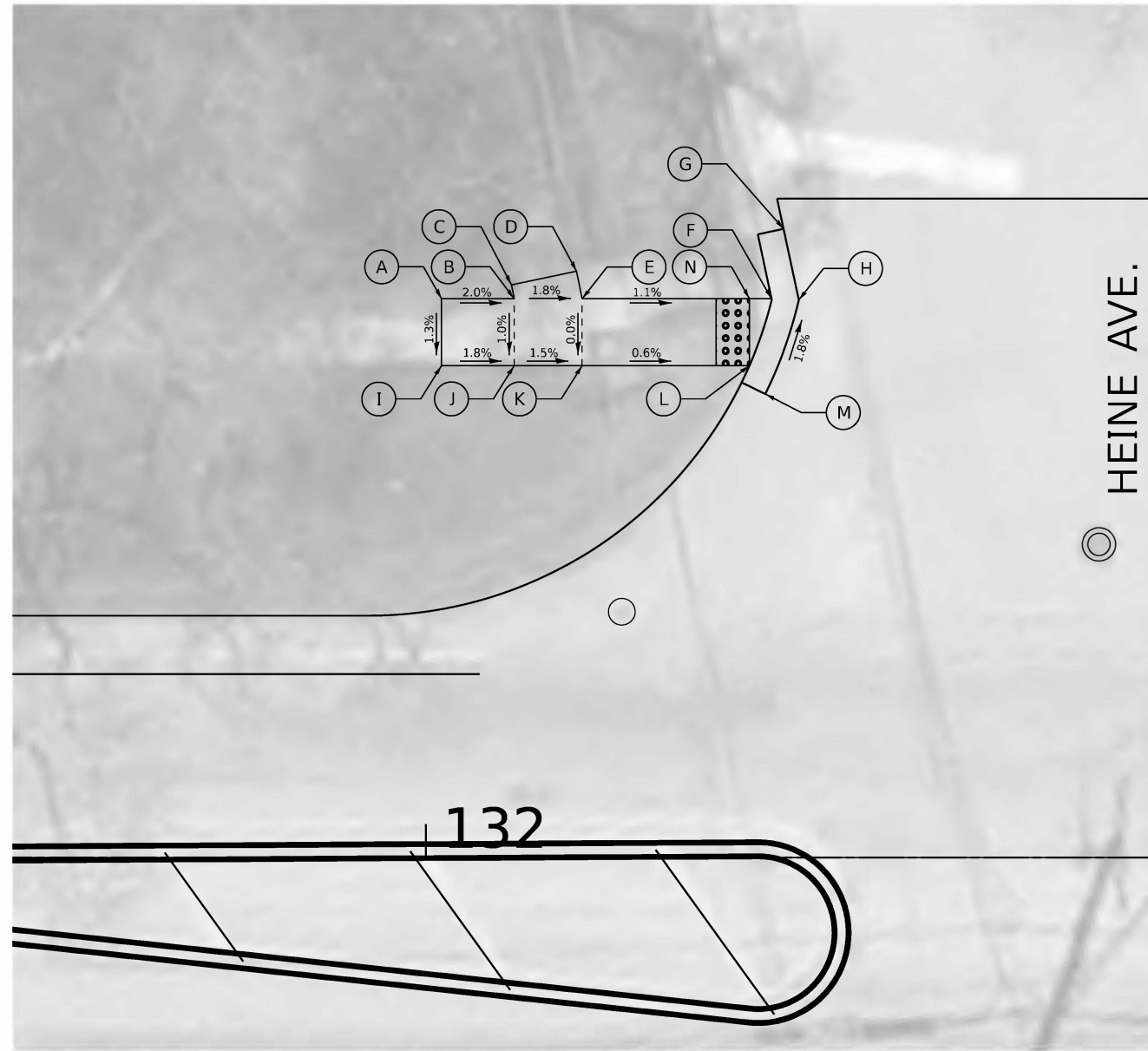
	STATION	OFFSET	ELEVATION
A	129+14.9	39.7' LT	812.32
B	129+16.5	40.0' LT	812.65
C	129+20.4	40.8' LT	812.63
D	129+17.5	34.3' LT	812.34
E	129+21.6	34.3' LT	812.34
F	129+37.7	34.1' LT	811.73
G	129+16.7	30.3' LT	812.36
H	129+18.3	30.3' LT	812.36
I	129+22.4	30.3' LT	812.30
J	129+37.7	30.1' LT	811.72

LEGEND ON SHEET 2

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HIGHLAND AVENUE

HIGHLAND AVENUE



	STATION	OFFSET	ELEVATION
A	132+00.9	33.5' LT	808.22
B	132+05.3	33.5' LT	808.13
C	132+05.1	34.3' LT	808.14
D	132+09.1	35.2' LT	808.04
E	132+09.4	33.5' LT	808.06
F	132+20.8	33.5' LT	807.91
G	132+21.5	37.7' LT	807.70
H	132+22.4	33.4' LT	807.91
I	132+00.9	29.5' LT	808.17
J	132+05.3	29.5' LT	808.10
K	132+09.4	29.5' LT	808.04
L	132+19.4	29.5' LT	807.98
M	132+20.4	27.8' LT	807.98
N	132+19.4	33.5' LT	807.95

	STATION	OFFSET	ELEVATION
A	132+52.9	OFFSET	807.90
B	132+54.9	33.5' LT	807.93
C	132+65.6	33.4' LT	808.08
D	132+64.8	37.2' LT	808.01
E	132+68.8	38.0' LT	808.04
F	132+69.6	33.3' LT	808.12
G	132+75.6	33.2' LT	808.22
H	132+56.1	27.6' LT	808.04
I	132+56.8	29.5' LT	808.00
J	132+65.5	29.4' LT	808.12
K	132+69.6	29.3' LT	808.16
L	132+75.6	29.2' LT	808.22
M	132+56.8	33.5' LT	807.95

LEGEND ON SHEET 2

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HAMPTON, LENZINI AND RENWICK, INC.
390 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
HLR ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000059

USER NAME = jmeindl	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/13/2023	CHECKED -	REVISED -
	DATE -	REVISED -

CITY OF ELGIN
1900 HOLMES ROAD
ELGIN, IL 60123

RESURFACING AND SIDEWALK IMPROVEMENTS
CROSSWALK GRADING PLANS:
HIGHLAND AVENUE

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

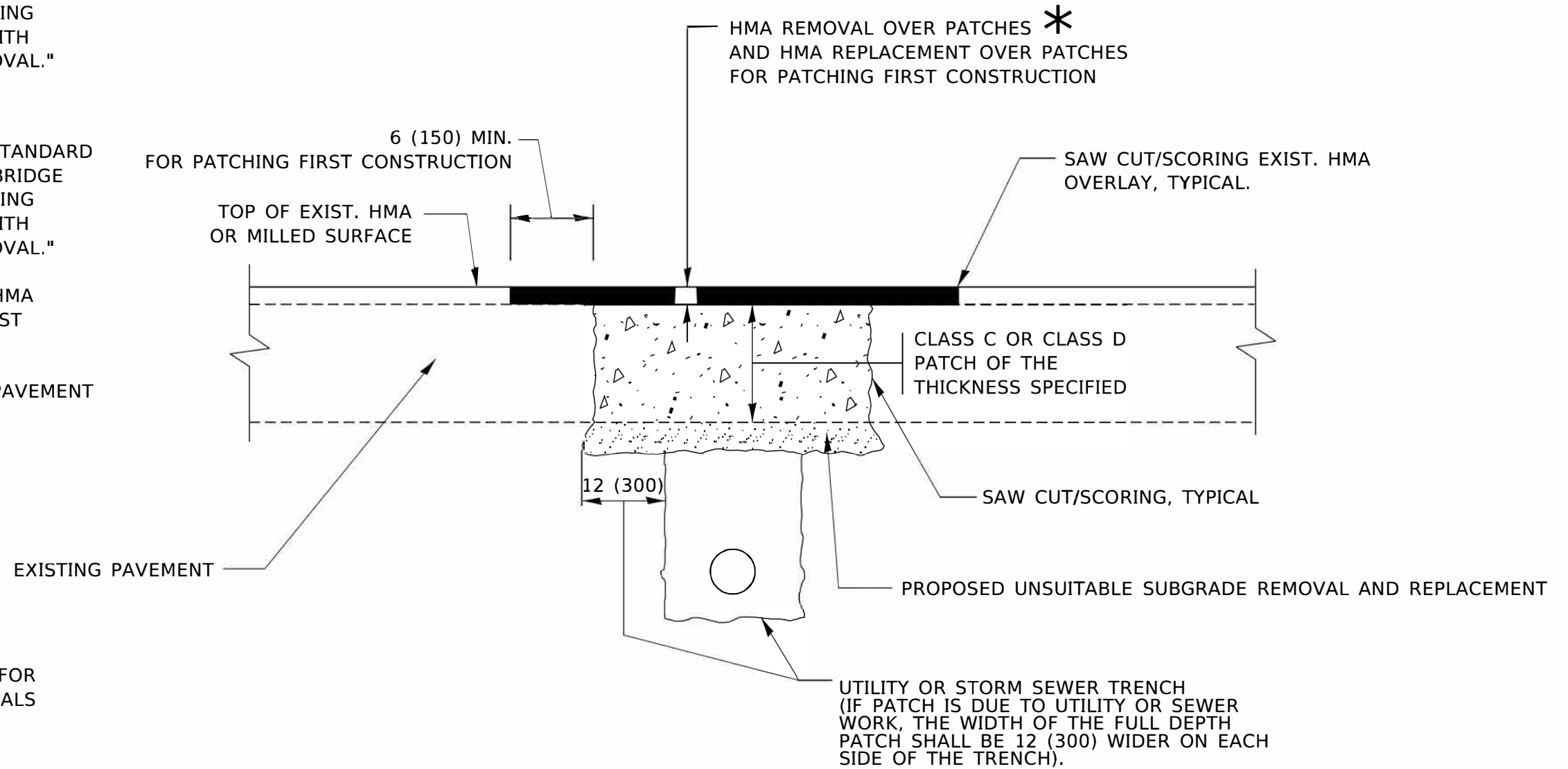
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	40
CONTRACT NO. 61J44				
ILLINOIS FED. AID PROJECT				

METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

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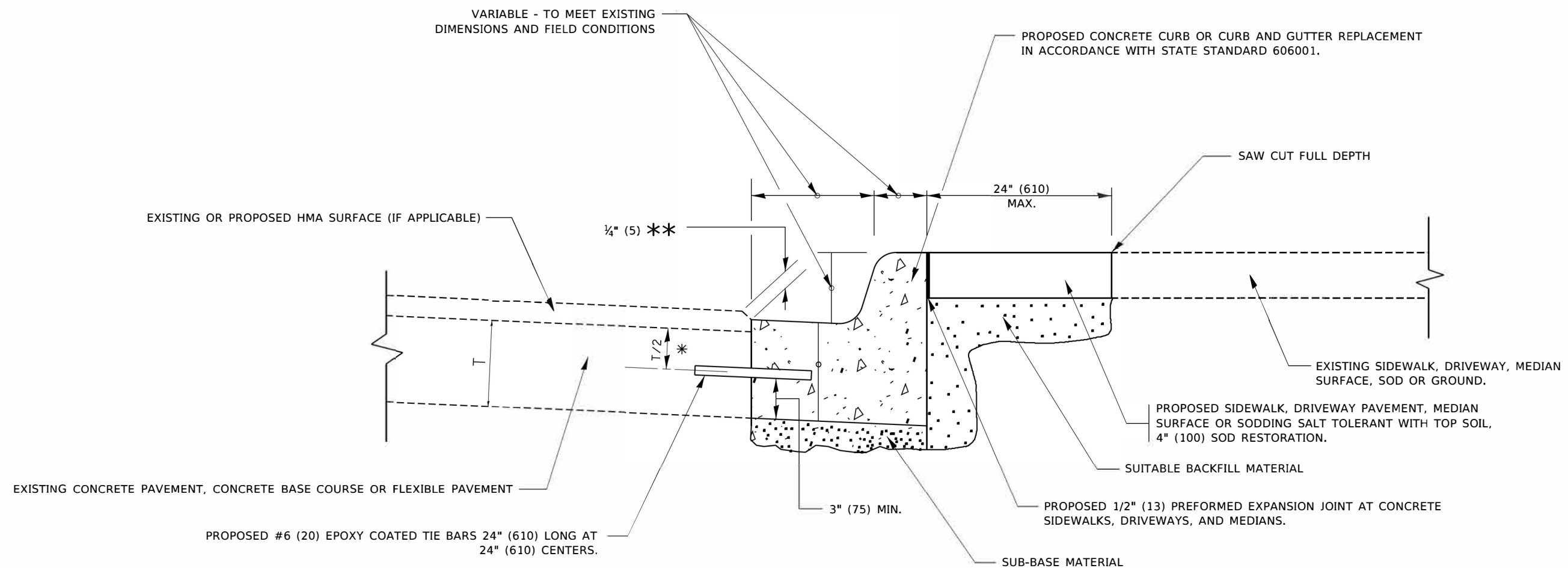
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	DRAWN -	REVISED - R. BORO 09-04-07
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - K. ENG 10-27-08
PLOT DATE = 11/18/2022	DATE - 10-25-94	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-R5	KANE	50	41
BD400-04 (BD-22)			CONTRACT NO. 61J44	
ILLINOIS FED. AID PROJECT				



- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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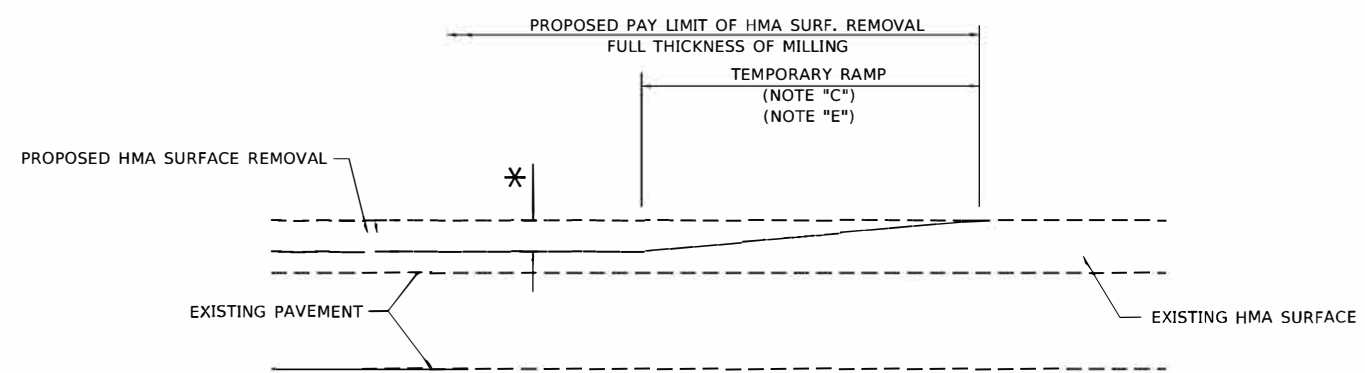
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PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - R. BORO 12-15-09
		REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CURB OR CURB AND GUTTER
 REMOVAL AND REPLACEMENT**

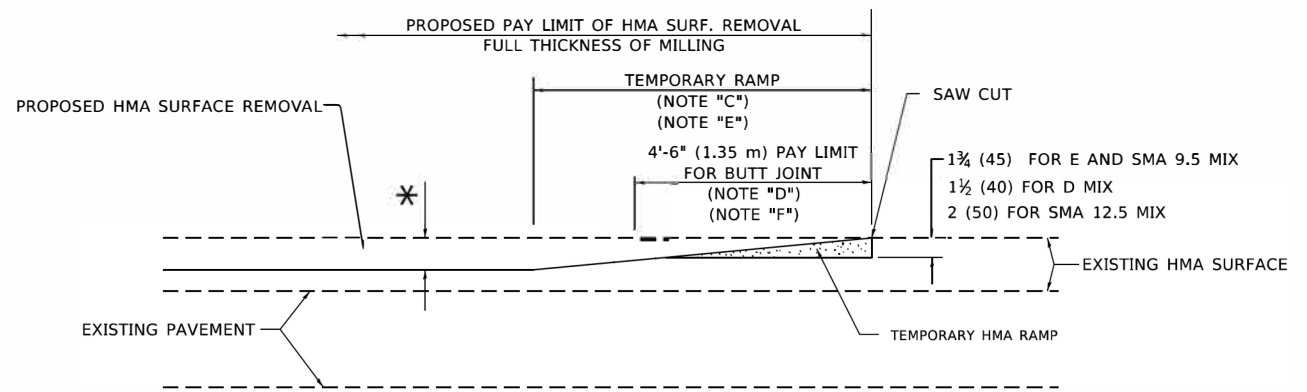
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	42
BD600-06 (BD-24)			CONTRACT NO. 61J44	
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

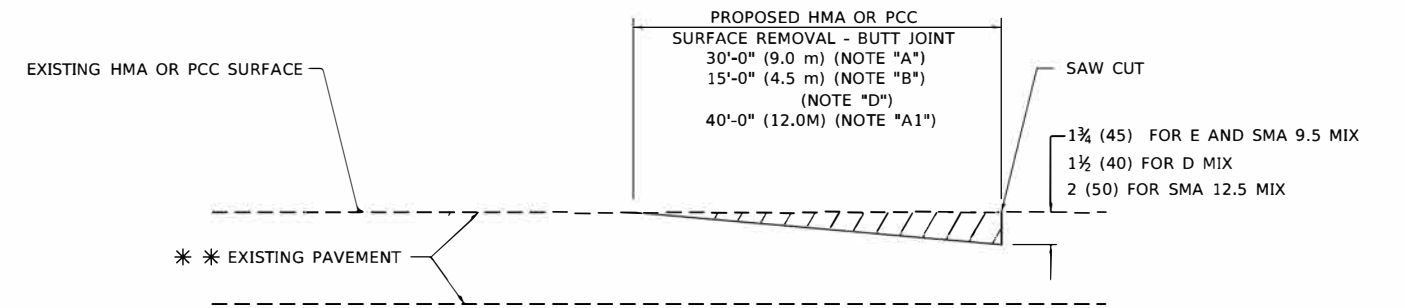
OPTION 1



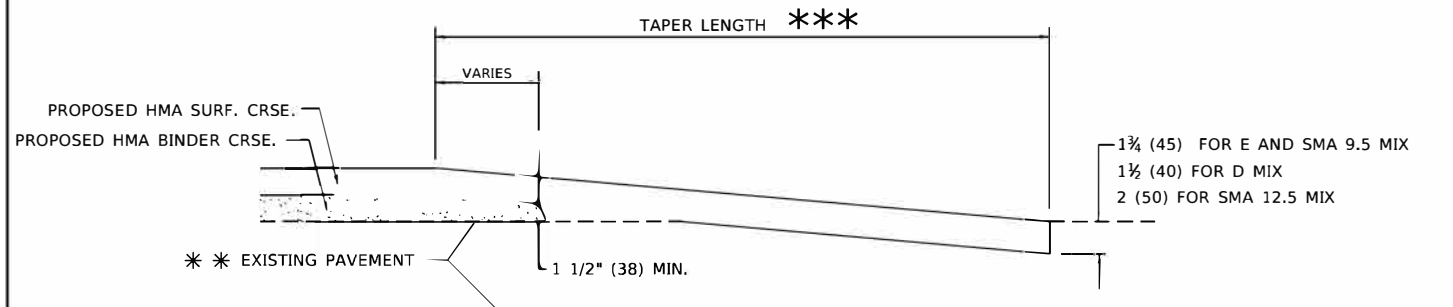
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

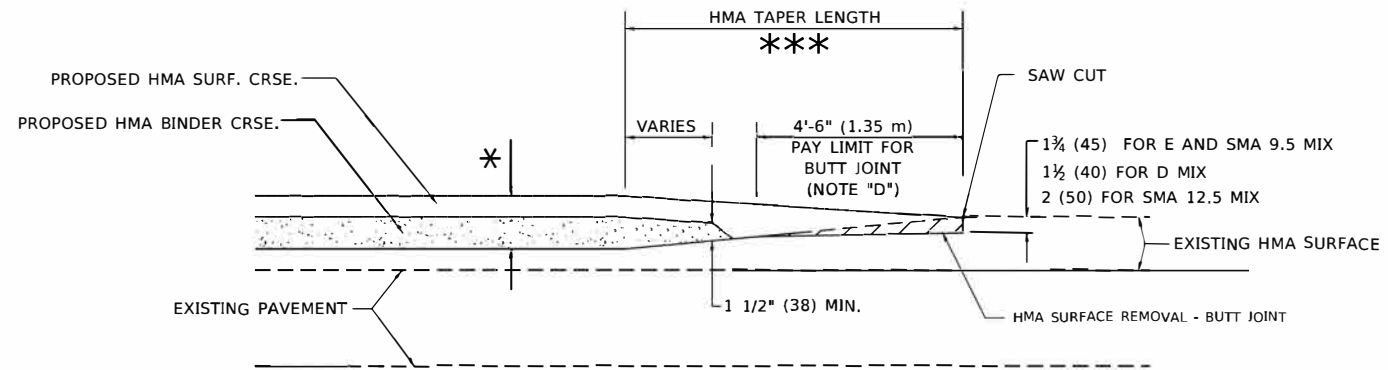
GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

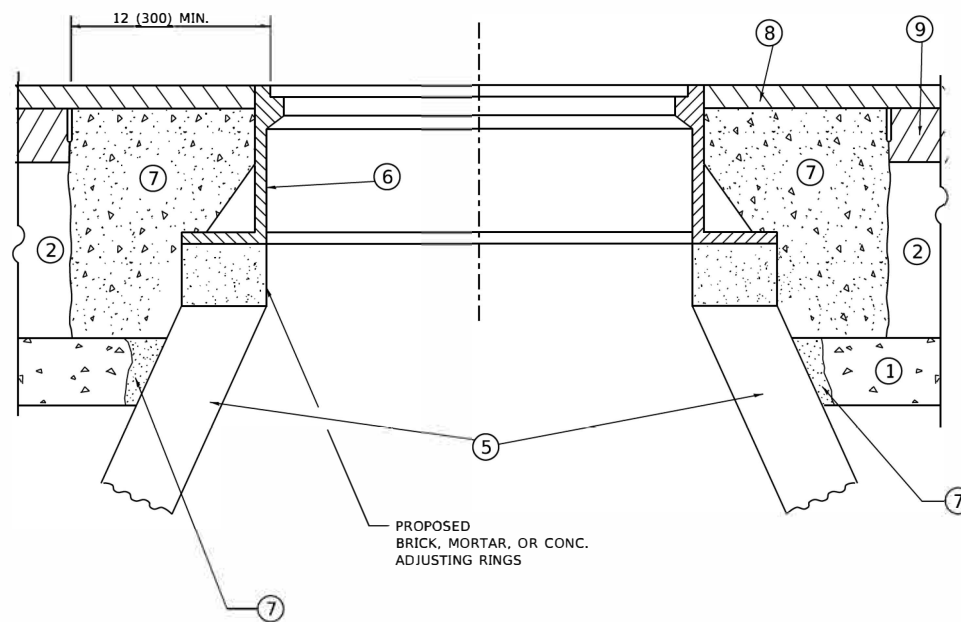
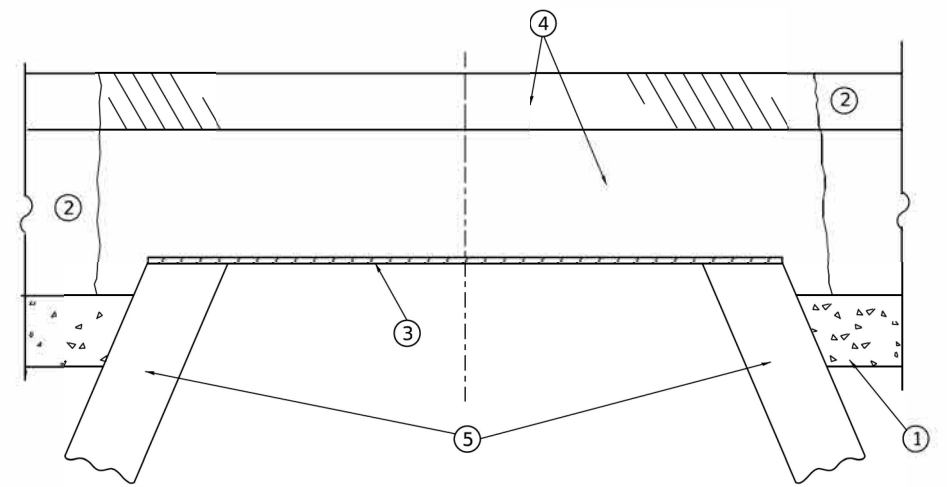
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DRAWN: M. DE YONG
CHECKED: R. BORO
DATE: 06-13-90
REVISIONS:
REVISED: A. ABBAS 03-21-97
REVISED: M. GOMEZ 04-06-01
REVISED: R. BORO 01-01-07
REVISED: K. SMITH 11-18-22

USER NAME = Lawrence.DeManche	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT DATE = 11/18/2022	CHECKED -	REVISED - R. BORO 01-01-07
	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	43
BD400-05 BD-32			CONTRACT NO. 61J44	
ILLINOIS FED. AID PROJECT				



**DETAILS FOR FRAMES AND LIDS ADJUSTMENT
WITH MILLING**

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 1 1/2 (40) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS*PP-1 CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS*PP-1 CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

- 1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
- 2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- 3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
- 4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

NOTES

- 1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- 2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
- 3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- 4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

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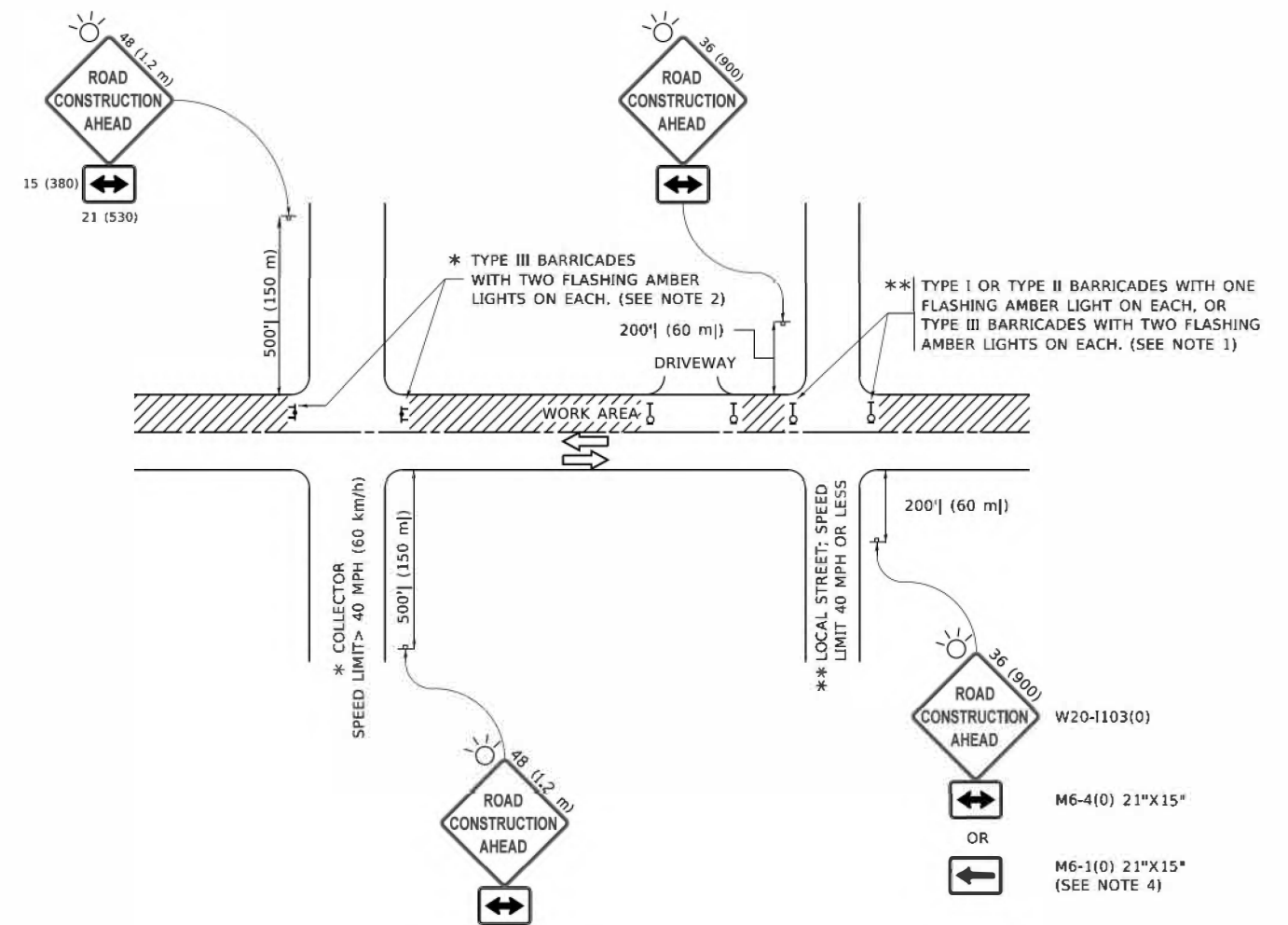
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	DRAWN -	REVISED - R. BORO 03-09-11
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PLOT DATE = 11/18/2022	DATE - 10-25-94	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-R5	KANE	50	44
BD600-03 (BD-08)			CONTRACT NO. 61J44	
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

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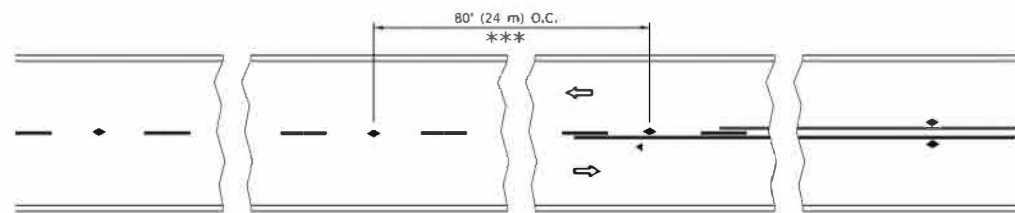
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
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PLOT DATE = 3/4/2019	DATE = 06-09	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

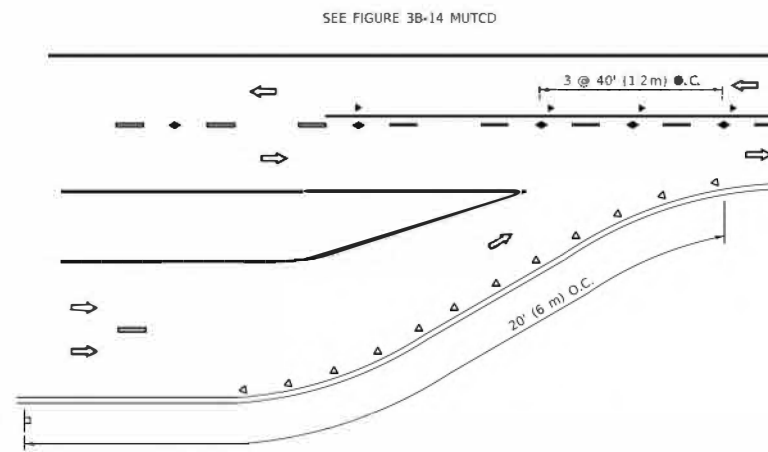
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 61J44	
ILLINOIS FED. AID PROJECT				

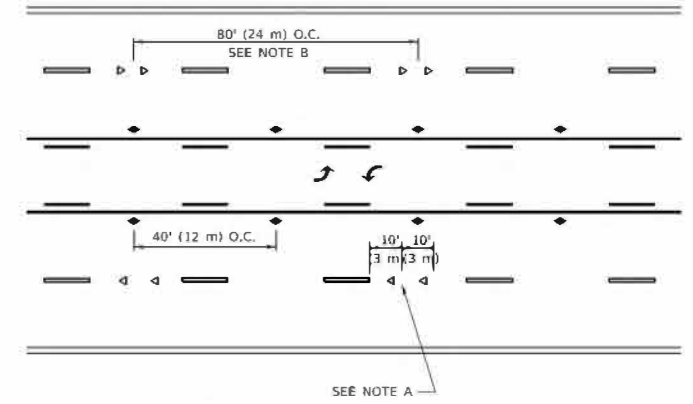


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

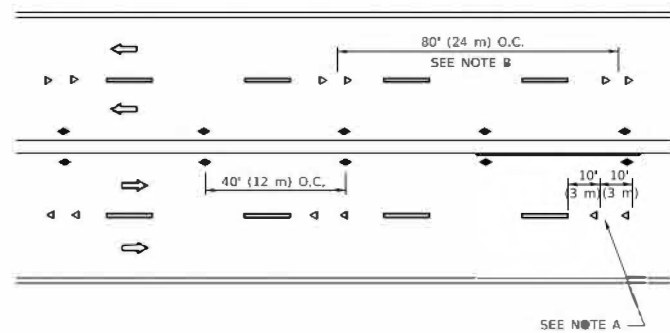
TWO-LANE/TWO-WAY



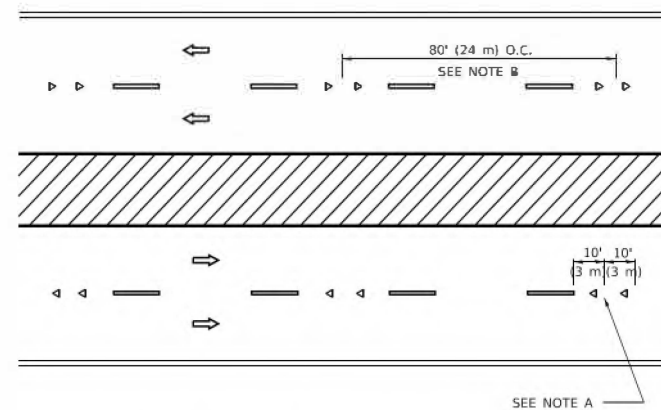
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

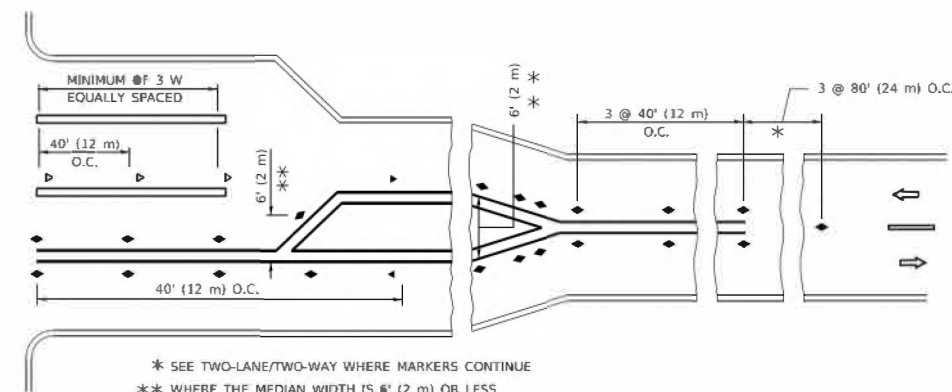
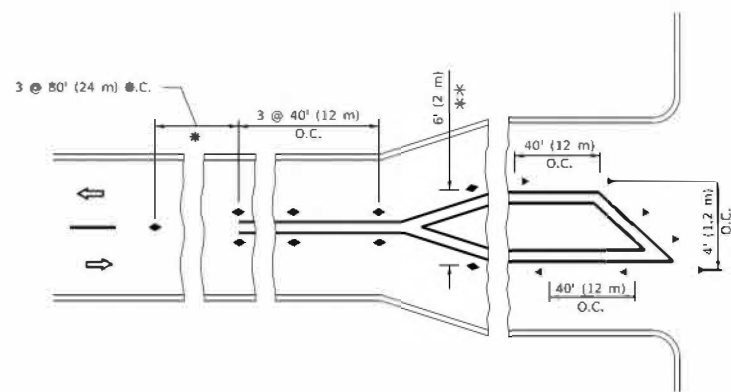
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



TURN LANES

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

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

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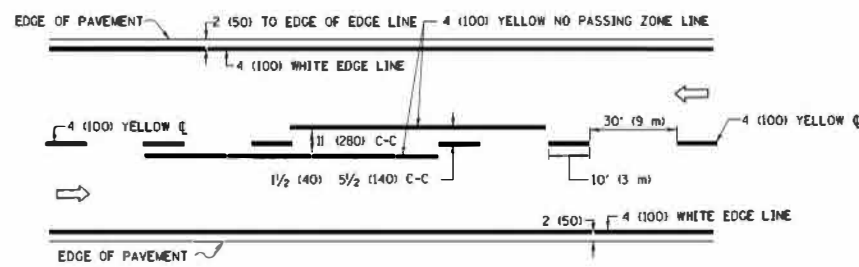
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	DATE -	REVISED - C. JUICIUS 07-01-13

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

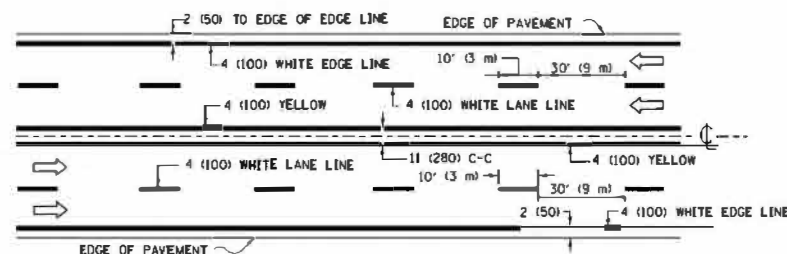
TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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

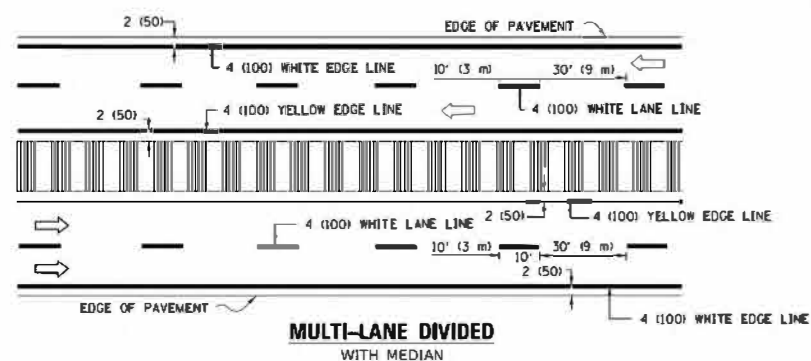
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	46
TC-11			CONTRACT NO. 61J44	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

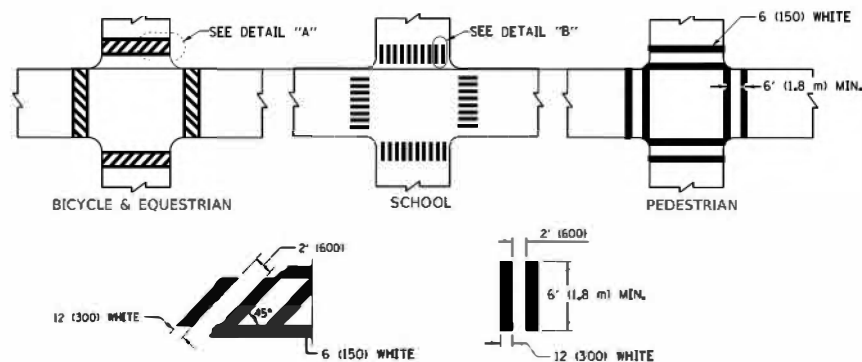


MULTI-LANE UNDIVIDED



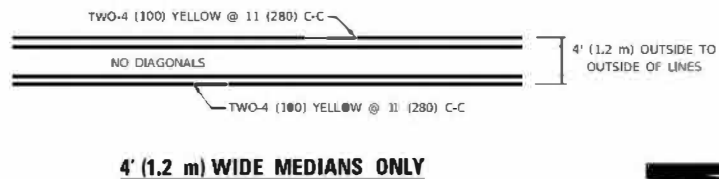
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

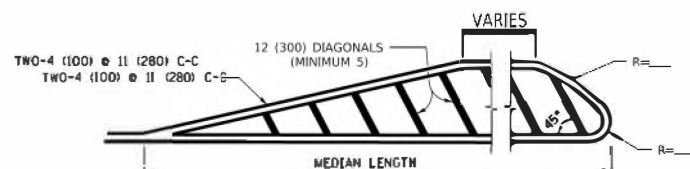


TYPICAL CROSSWALK MARKING

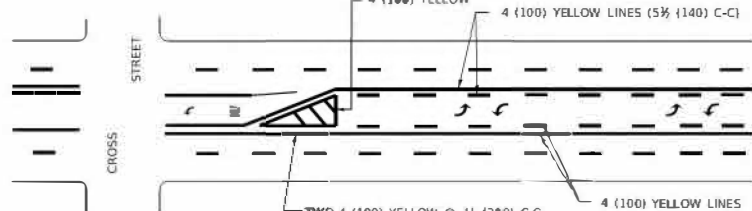
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



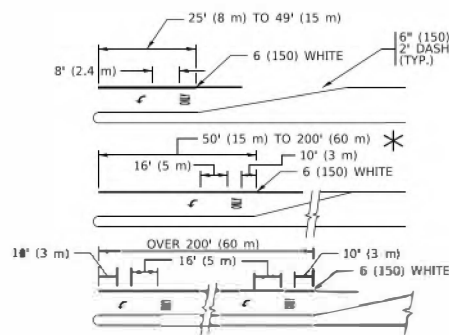
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

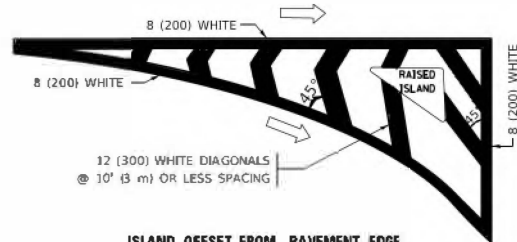


MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

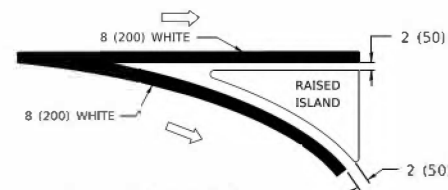


TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

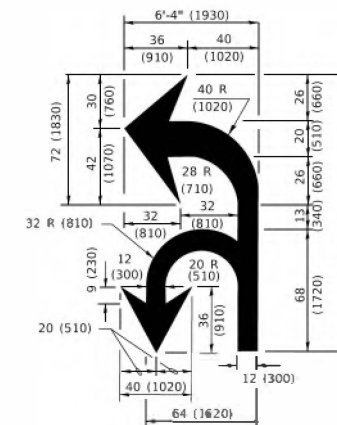


ISLAND OFFSET FROM PAVEMENT EDGE

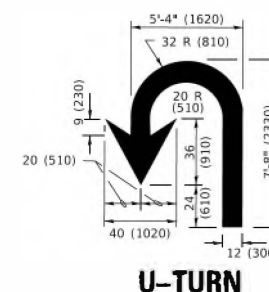


ISLAND AT PAVEMENT EDGE

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 8' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" 15' 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R" = 3.6 SQ. FT. (0.33 m²) EACH "X" = 54.0 SQ. FT. (5.0 m²)
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' (22.5 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.

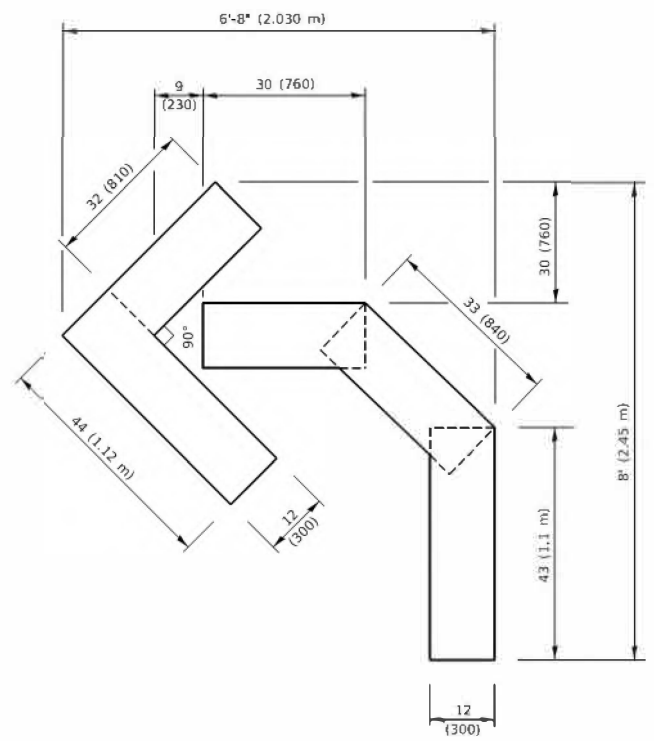
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USER NAME	DESIGNED	REVISED
FOSTER	EVERS	C. JUCIUS 09-09-09
		C. JUCIUS 07-01-13
		C. JUCIUS 12-21-15
		C. JUCIUS 04-12-16

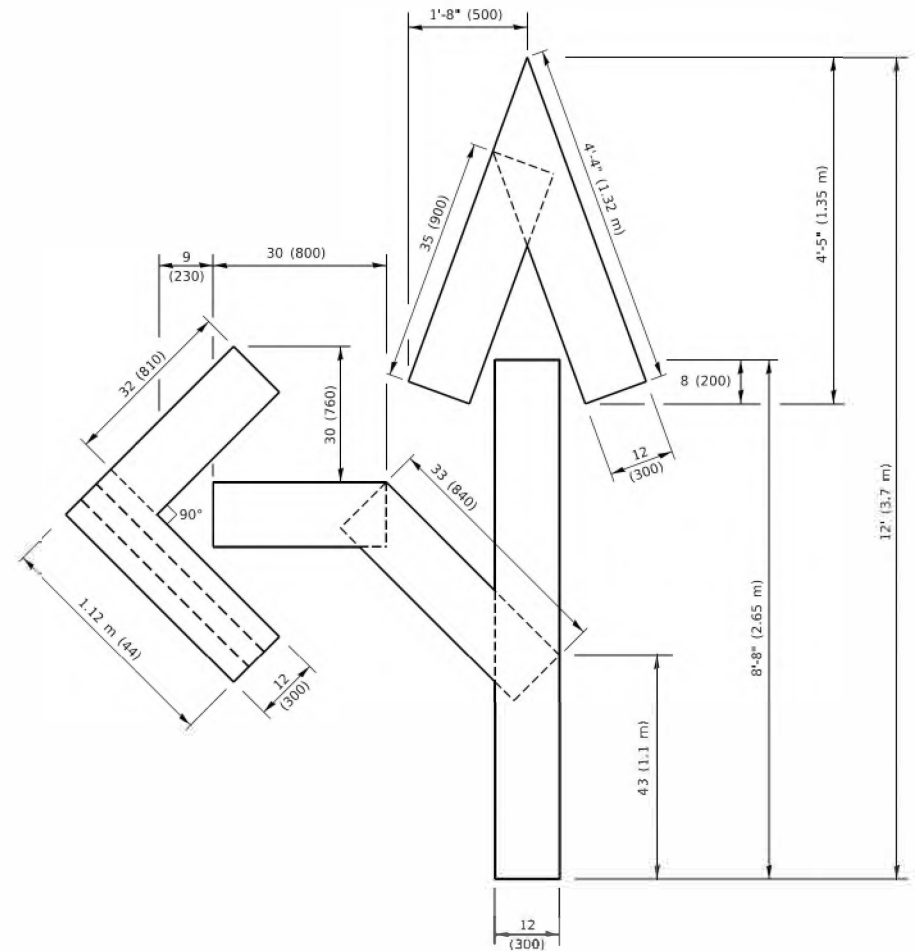
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET 1 OF 2 SHEETS	STA. TO STA.	

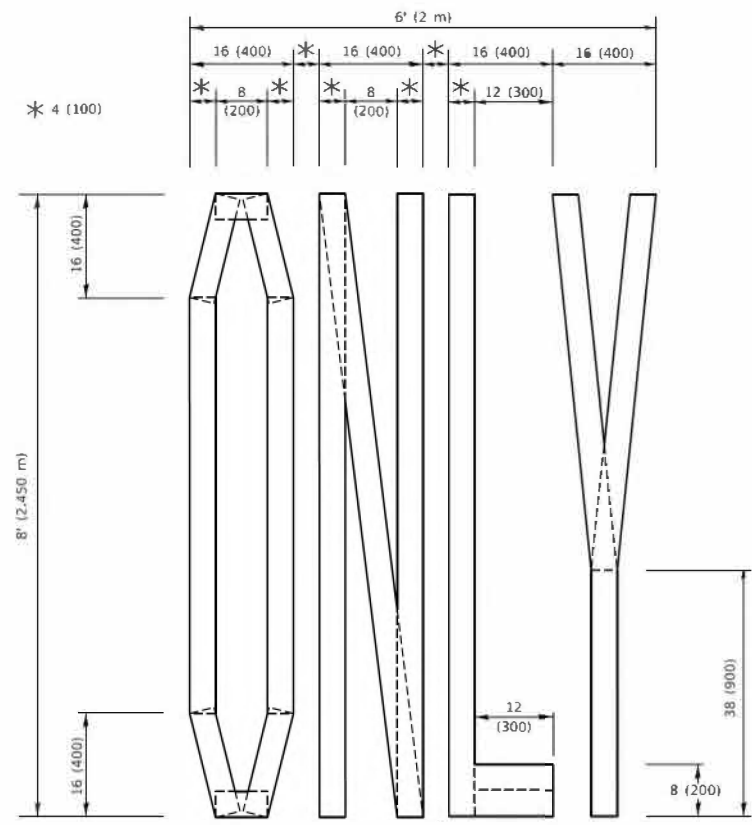
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	47
TC-103			CONTRACT NO. 61J44	
ILLINOIS FED. AID PROJECT				



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.41 sq. m)

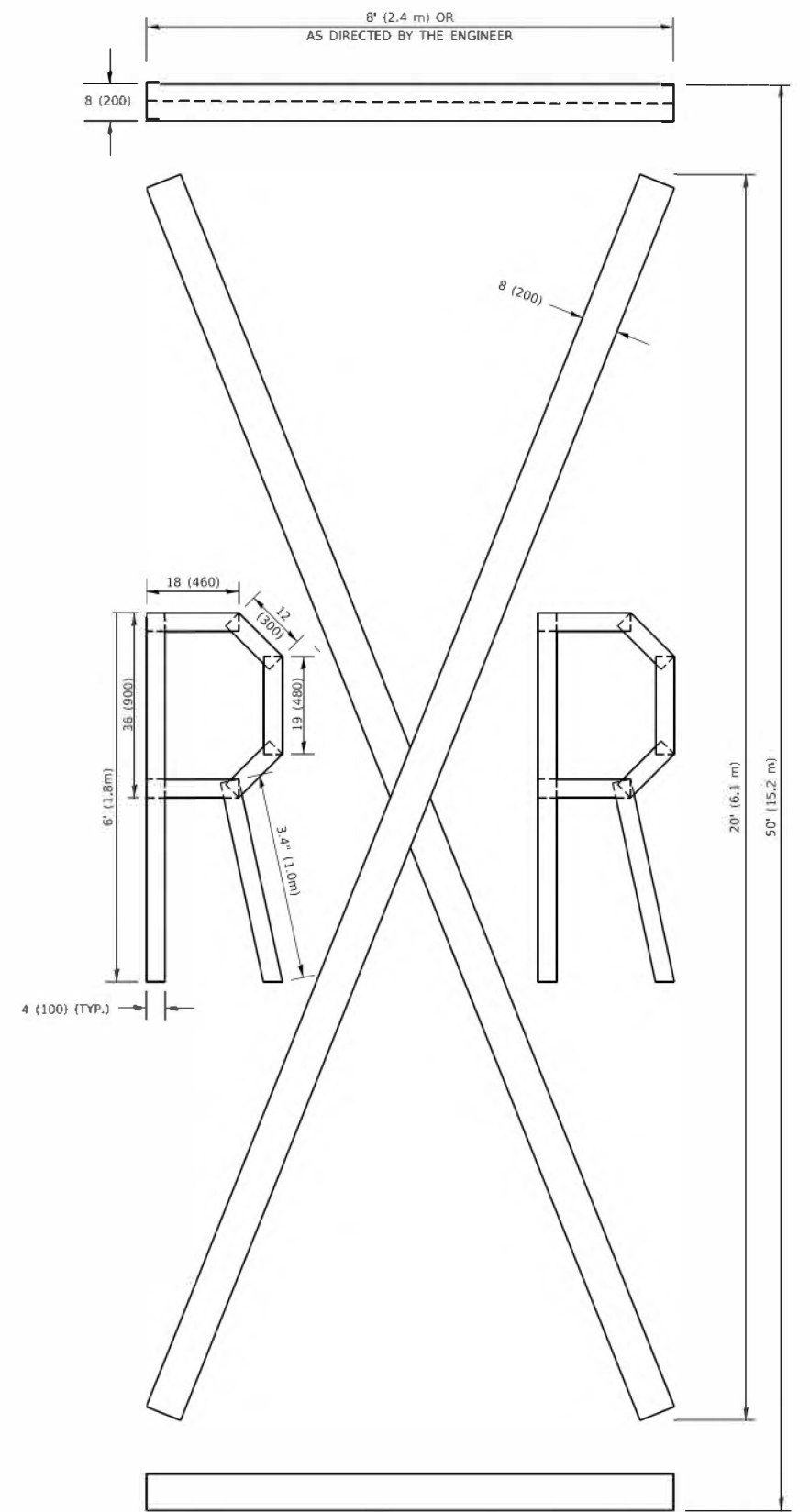


QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)

NOTE:
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY
 4 (100) LINE = 225.9 ft. (68.9 m)
 75.3 sq. ft. (6.99 sq. m)

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

MODEL: T:\bids\...
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 PROJECT: ...

USER NAME = fco (em)	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
PLOT SCALE = 30.0068 " / ft.	CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

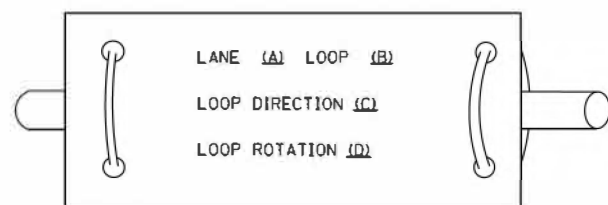
SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
 SCALE: NONE SHEET 3 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	48
TC-16		CONTRACT NO. 61J44		
ILLINOIS, FED. AID PROJECT				

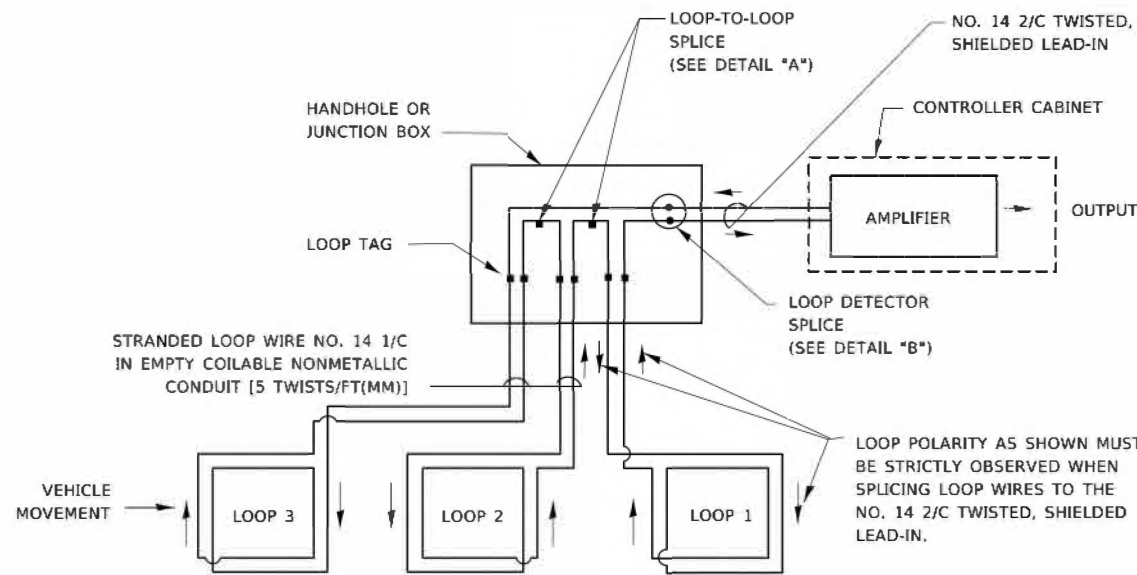
LOOP DETECTOR NOTES

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 DIVESHOLES 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

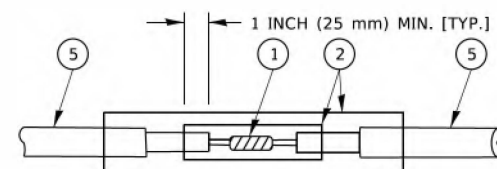


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

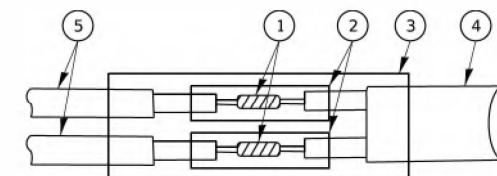


DETECTOR LOOP WIRING SCHEMATIC

- 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.

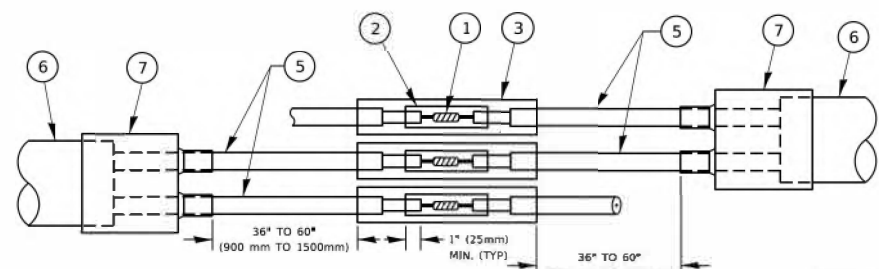


DETAIL "A"
LOOP-TO-LOOP SPLICE

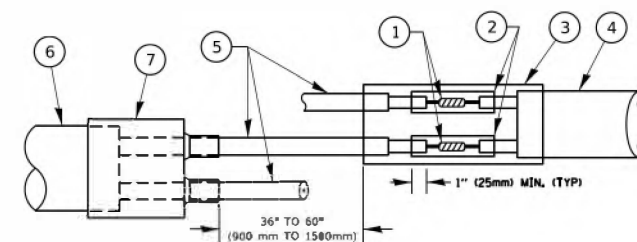


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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. PREFORMED LOOP
- 6 XL POLYOLEFIN 2 CONDUCTOR
- 7 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

MODEL: Detail
FILE: \\mspc-prod01\cbeebond\cbeebond\proj\PHOTO\Documents\DOT\DOT\proj\101444\101444\CD\sheet105.dwg

USER NAME = foaterrj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

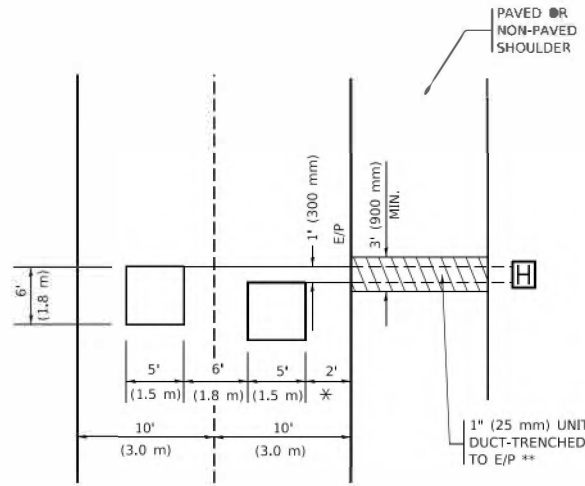
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	49
TS-05			CONTRACT NO. 61J44	
ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

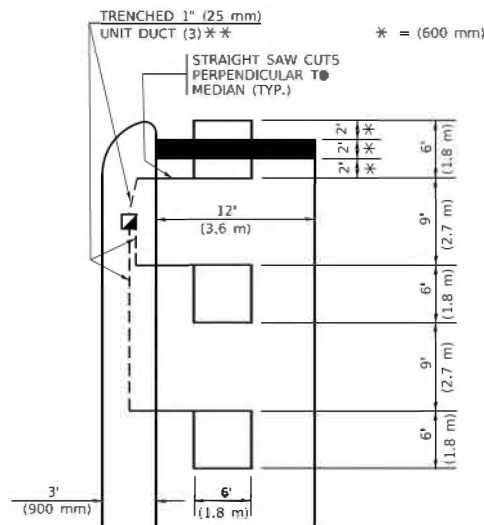


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.

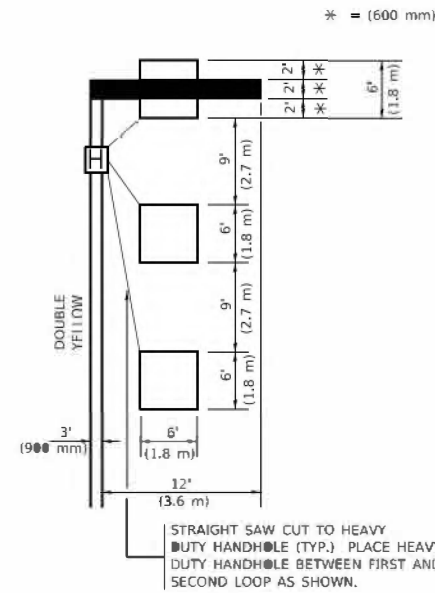


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)



* = (600 mm)

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

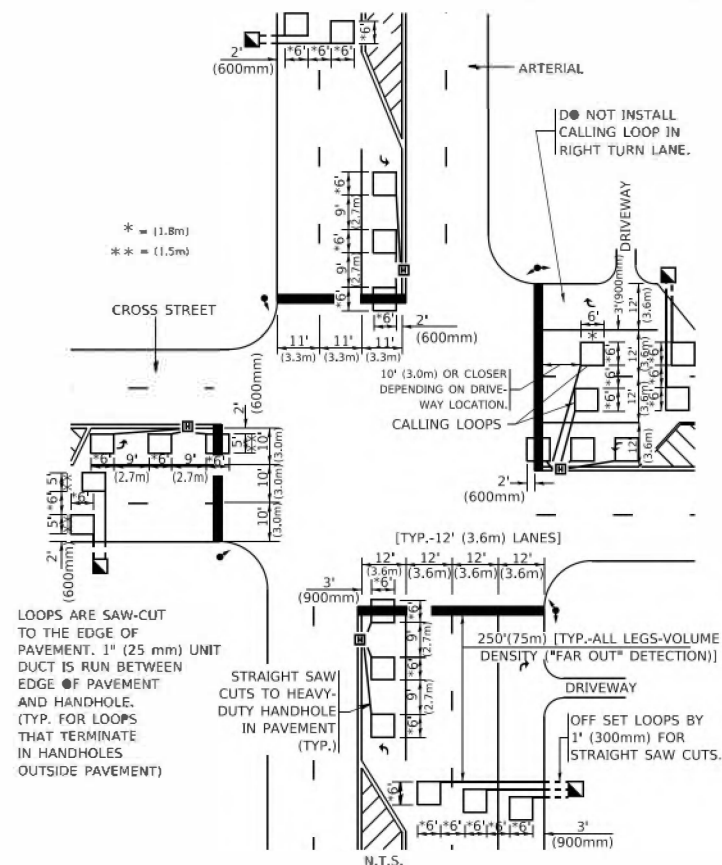
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("FAR OUT" DETECTION)

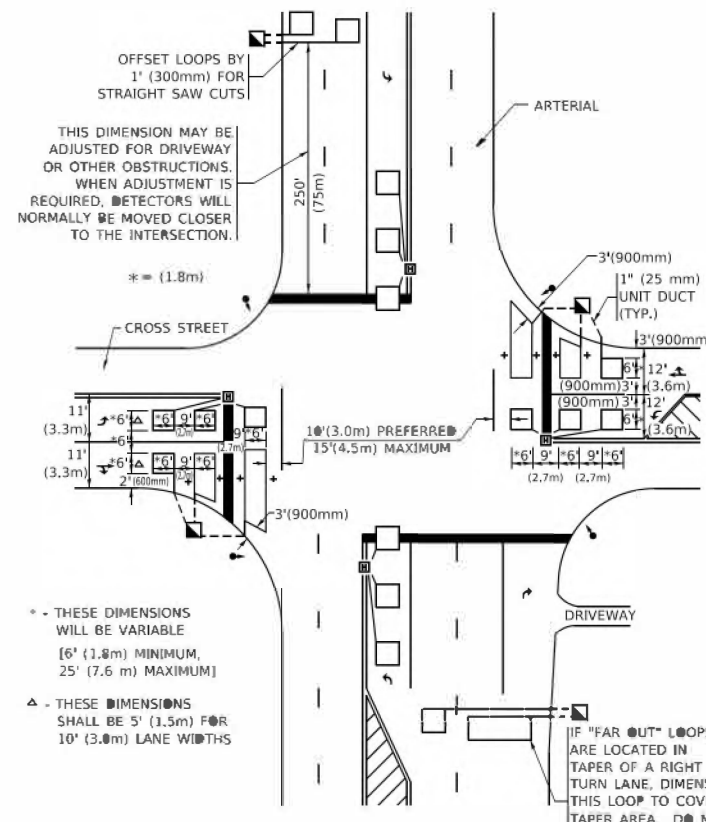


LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

STRAIGHT SAW CUTS TO HEAVY-DUTY HANDHOLE IN PAVEMENT (TYP.)

DETAIL 1
N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



THIS DIMENSION MAY BE ADJUSTED FOR DRIVEWAY OR OTHER OBSTRUCTIONS. WHEN ADJUSTMENT IS REQUIRED, DETECTORS WILL NORMALLY BE MOVED CLOSER TO THE INTERSECTION.

* - THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]

▲ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

IF "FAR OUT" LOOPS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN LANE OR LEFT TURN LANE TAPER.

DETAIL 2
N.T.S.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

USER NAME = foatetm	DESIGNED -	REVISED -
PLOT SCALE = 50.0000" / in.	DRAWN -	REVISED -
PLOT DATE = 3/4/2019	CHECKED - R.K.F.	REVISED -
	DATE -	REVISED -

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0170	21-00190-00-RS	KANE	50	50
TS-07		CONTRACT NO. 61J44		
ILLINOIS FED. AID PROJECT				