

08-01-2025 LETTING ITEM 008

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

MERRILL ROAD DESIGN DESIGNATION MINOR COLLECTOR DESIGN SPEED = 45 M.P.H. POSTED SPEED = 45 M.P.H. AADT (2023) = 600 VPD

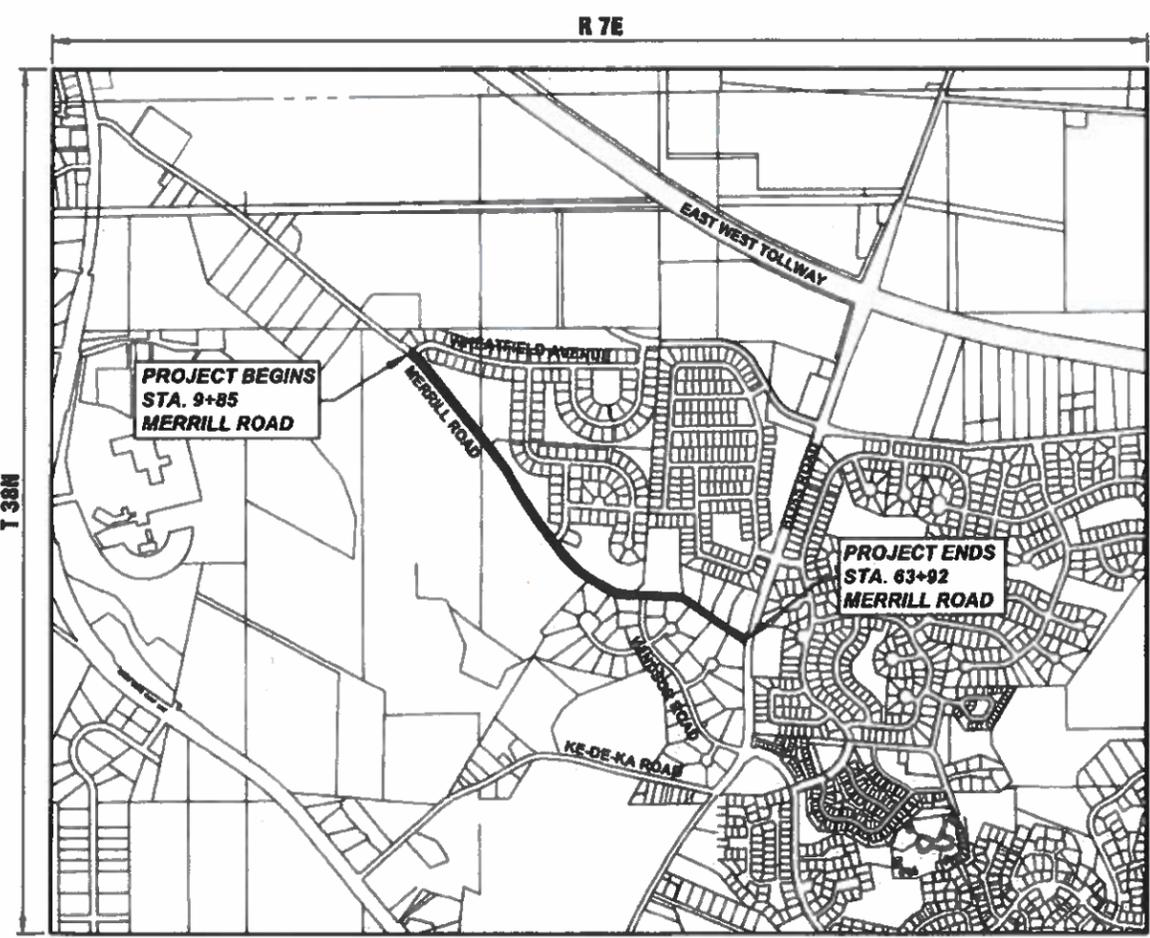
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED FEDERAL-AID HIGHWAY

MUN 2304A (MERRILL ROAD) VILLAGE LIMITS TO BLISS ROAD ROADWAY RESURFACING SECTION 24-00035-00-RS PROJECT NUMBER: GZY8 (601) VILLAGE OF SUGAR GROVE KANE COUNTY JOB NO. C-91-126-25

Table with 5 columns: P.A.I. RTE, SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values: 2304, 24-00035-00-RS, KANE, 21, 1. Includes CONTRACT NO. 61L61.



LOCATION OF SECTION INDICATED THUS: - [Symbol] -



LOCATION MAP (SCALE 1"=1000') NE 1/4 SECTION 9, S 1/2 SECTION 4, T38N, R7E, SUGAR GROVE TOWNSHIP GROSS LENGTH OF PROJECT = 5,407 FEET (1.024 MILES) NET LENGTH OF PROJECT = 5,407 FEET (1.024 MILES)



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.



CONTRACT NO. 61L61

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

Approval and signature block. Includes 'APPROVED' signature of Brian J. Schuber, 'PASSED' signature of May 29, 2025, and 'RELEASING FOR BID' signature of May 29, 2025.

Professional Engineer information. Includes date 5/12/25, signature of Christopher J. Ott, license number 062-069699, expiration date November 30, 2025, and sheet number 1-21.

Engineering Enterprises, Inc. CONSULTING ENGINEERS. 52 Wheeler Road, Sugar Grove, Illinois 60554. Phone: (630) 486-8700.

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GENERAL NOTES

SPECIFICATIONS, STANDARDS, AND SPECIAL PROVISIONS

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE '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, 2025, THE LATEST EDITION OF THE 'ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS,' THE 'STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS,' SEVENTH EDITION, THE CODES AND ORDINANCES OF THE VILLAGE OF SUGAR GROVE, ILLINOIS, THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION FOR TRAFFIC AS CALLED FOR IN THE APPLICATION OF TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS AND THE PLANS

UTILITIES

THE CONTRACTOR SHALL COOPERATE WITH THE OWNER IF ANY 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 EXISTING AND PROPOSED 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 OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, FIELD TILES AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND NOT NECESSARY COMPLETE: THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR OPERATE ANY VALVES OR HYDRANTS.

STAKING

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, THE OWNER'S AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

ALL OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS ARE FROM THE CENTERLINE AS SHOWN ON THE PLANS.

MISCELLANEOUS

THE THICKNESS OF ASPHALT MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASES ON WHICH THE ASPHALT MIXTURES ARE TO BE PLACED.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS CONTRACT.

WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION. IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE IMPROVEMENT.

THE ENGINEER IS NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

THE CONTRACTOR SHALL MAINTAIN EXISTING SIDE STREET AND DRIVEWAY ACCESS TO EACH ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL DISPOSE OF AND REMOVE FROM THE SITE EACH DAY ALL CURB AND GUTTER, PAVEMENT AND ALL OTHER EXCAVATED MATERIAL NOT FOR SALVAGE.

THE STORAGE OF EQUIPMENT AND/OR MATERIALS WITHIN THE RIGHT-OF-WAY OF ANY STREET AND/OR PARK PROPERTY SHALL REQUIRE PRIOR APPROVAL OF THE ENGINEER.

SIDEWALK REMOVAL AND REPLACEMENT AND COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT AS SHOWN ON THE PLANS IS FOR INFORMATIONAL PURPOSES ONLY. ACTUAL LOCATIONS AND QUANTITIES ARE TO BE DETERMINED AND MARKED BY THE ENGINEER PRIOR TO CONSTRUCTION.

ALL EXISTING SIGNS (INCLUDING THOSE LOCATED ON UTILITY/LIGHT POLES) THAT DO NOT CONFLICT WITH THE IMPROVEMENTS SHALL REMAIN IN PLACE UNLESS DIRECTED BY THE ENGINEER.

CONTRACTOR SHALL TAKE PRECAUTION 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.

IDOT HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-12	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-06	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-05	CORNER PARALLEL CURB RAMPS FOR SIDEWALK
424016-06	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-07	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5M) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15'(4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY 45 MPH OR MORE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

INDEX OF SHEETS

1.	COVER SHEET
2.	INDEX OF SHEETS, DETAILS, HIGHWAY STANDARDS, AND GENERAL NOTES
3-5	SUMMARY OF QUANTITIES
6-7	TYPICAL SECTIONS
8-13	RESURFACING PLAN
14-21	IDOT DISTRICT 1 DETAILS

SHEET. NO.	IDOT DISTRICT ONE STD. DETAILS
14.	(BD-08) FRAMES AND LIDS ADJUSTMENT WITH MILLING
15.	(BD-22) PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
16.	(BD-24) CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
17.	(BD-32) BUTT JOINT AND HMA TAPER DETAILS
18.	(TC-10) TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
19.	(TC-13) TYPICAL PAVEMENT MARKINGS
20.	(TC-16) SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
21.	(TC-22) ARTERIAL ROAD INFORMATION SIGN

SUPPLEMENTAL LEGEND

	HOT-MIX ASPHALT SURFACE REMOVAL, 3.75"
	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT
	COMB CONC C&G REMOVAL AND REPLACEMENT
	HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
	BIKE PATH REMOVAL AND PORTLAND CEMENT CONCRETE SIDEWALK, 5"
	SIDEWALK REMOVAL AND PORTLAND CEMENT CONCRETE SIDEWALK, 5"
	BIKE PATH REMOVAL

FILE NAME = H:\SDS\PROJ\SG_SUGAR GROVE\2024\SG2410\DWG_FINAL_ENG\SG2410-COVER
Plotted: May 12, 2025 @ 4:03 PM By: Kris Pung - Model Name: 02 Index - 22-34

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, HIGHWAY STANDARDS,
LEGEND AND INDEX OF SHEETS**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2304	24-00035-00-RS	KANE	21	2
CONTRACT NO.			61L61	
ILLINOIS FED. AID PROJECT				

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CODE NUMBER	ITEM DESCRIPTION	UNIT	ROADWAY	
			75% FEDERAL	25% LOCAL
			0005	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	50	
25200110	SODDING, SALT TOLERANT	SQ YD	50	
25200200	SUPPLEMENTAL WATERING	UNIT	5	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	10	
28000510	INLET FILTERS	EACH	2	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	11,470	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	5,407	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	5	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	134	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	2,140	
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	1,435	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	290	
42400800	DETECTABLE WARNING	SQ FT	30	
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	16,980	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	76	
44000600	SIDEWALK REMOVAL	SQ FT	225	

Δ INDICATES SPECIALTY ITEM

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES
 SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2304	24-00035-00-RS	KANE	21	3
CONTRACT NO. 6161			ILLINOIS FED. AID PROJECT	

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CODE NUMBER	ITEM DESCRIPTION	UNIT	ROADWAY	
			75% FEDERAL	25% LOCAL 0005
44201709	CLASS D PATCHES, TYPE III, 5 INCH	SQ YD	170	
44201711	CLASS D PATCHES, TYPE IV, 5 INCH	SQ YD	510	
60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	76	
67100100	MOBILIZATION	L SUM	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDAARD 701801	L SUM	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	900	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	300	
70300221	TEMPORARY PAVEMENT MARKINGS - LINE 4" - PAINT	FOOT	1,500	
Δ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	15.6	
Δ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	21,565	
Δ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	179	
Δ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	50	
Δ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	33	
X0327036	BIKE PATH REMOVAL	SQ YD	24	
X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	1	

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	PLOT DATE = May 12, 2025 @ 4:04 PM	DATE -	REVISED -		SCALE: N.T.S.	SHEET 2 OF 3 SHEETS	STA. N/A TO STA. N/A	CONTRACT NO. 61L61		ILLINOIS FED. AID PROJECT		

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FILE NAME: H:\SDS\PROJ\SC_SUGAR_CROVE\2024\SE2410\DWG_FINAL_ENG\SE2410-COVER

CODE NUMBER	ITEM DESCRIPTION	UNIT	ROADWAY
			75% FEDERAL 25% LOCAL 0005
X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	77.1
XX006947	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT	SQ YD	92

Δ INDICATES SPECIALTY ITEM

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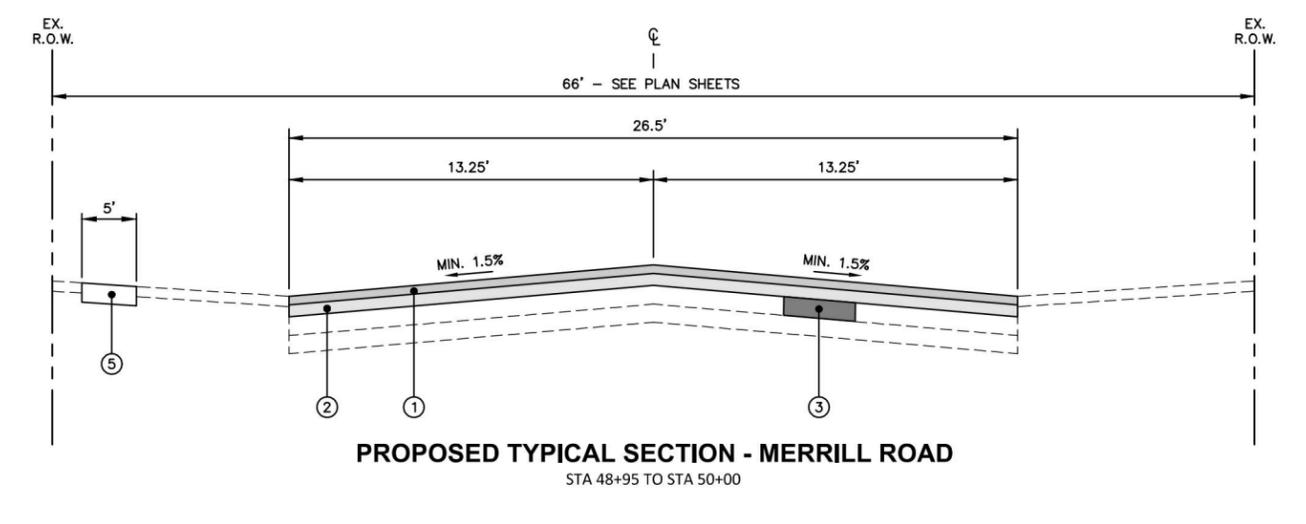
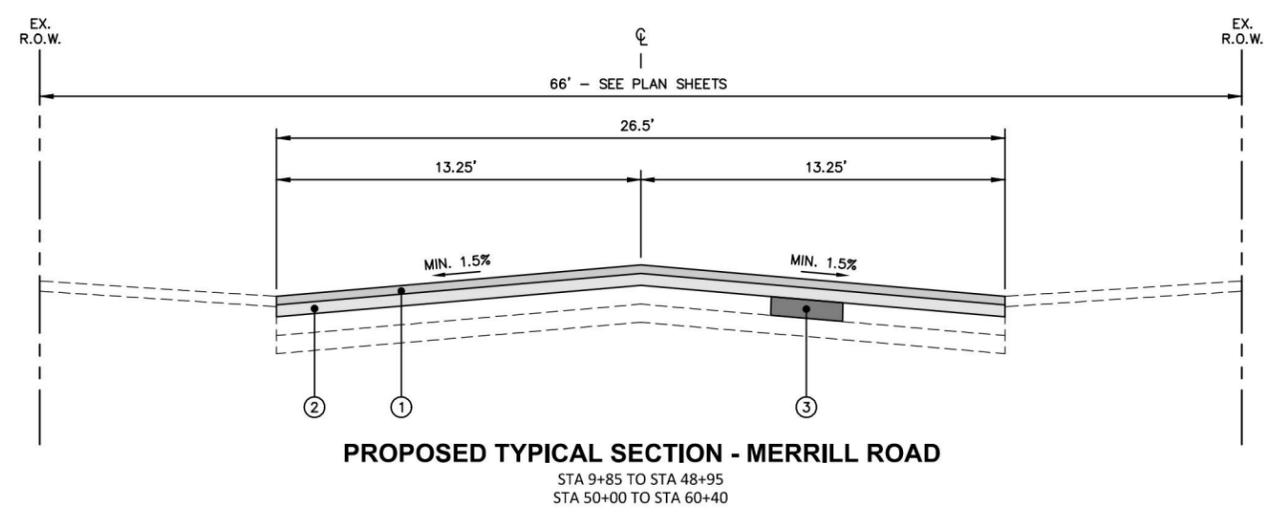
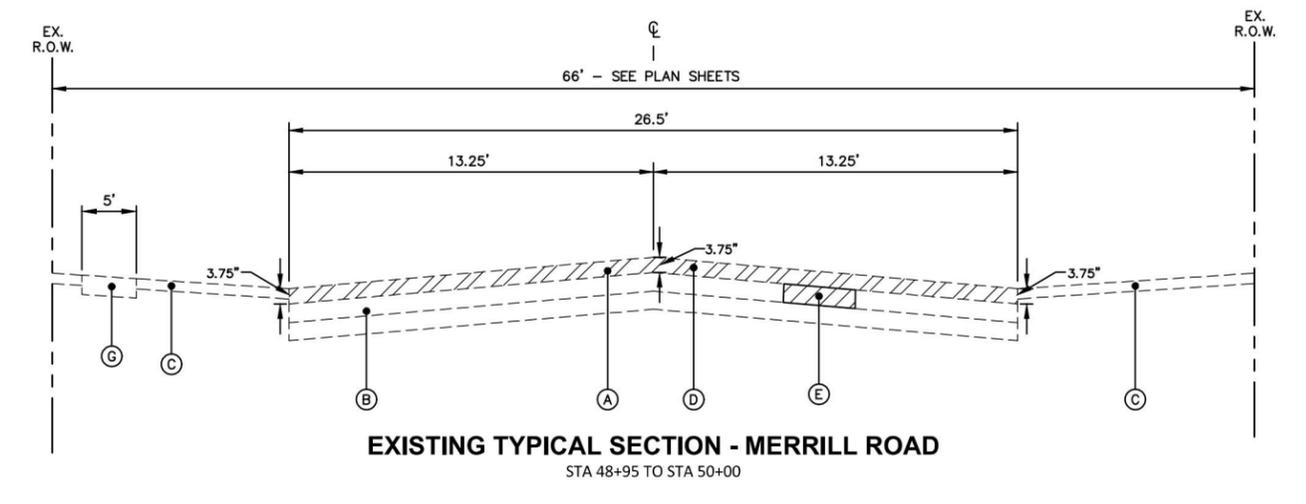
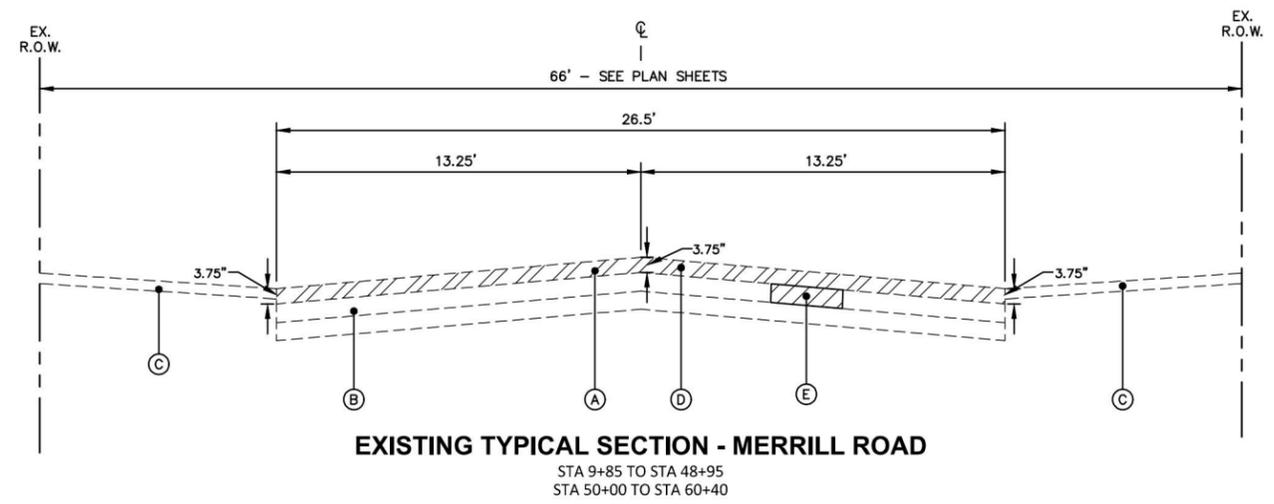
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: N.T.S.	SHEET 3 OF 3 SHEETS	STA. N/A	TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2304	24-00035-00-RS	KANE	21	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 6161	

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EXISTING LEGEND

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT (6" - 9")
- (B) EXISTING AGGREGATE BASE COURSE (6" - 11")
- (C) EXISTING PARKWAY
- (D) HOT-MIX ASPHALT SURFACE REMOVAL, 3.75"
- (E) HOT-MIX ASPHALT PARTIAL DEPTH REMOVAL, 5"
- (F) EXISTING COMBINATION CONCRETE CURB & GUTTER
- (G) EXISTING SIDEWALK

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

OPERATION	MIXTURE TYPE	AIR VOIDS • NDES	QMP
PAVEMENT RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"	4% @ 50 GYR. 4% @ 50 GYR.	LR1030-2 LR1030-2
CLASS D PATCHES	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 5"	4% @ 50 GYR.	LR1030-2
HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2"	4% @ 50 GYR.	LR1030-2

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER LR 1030-2.

THE UNIT WEIGHT 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.

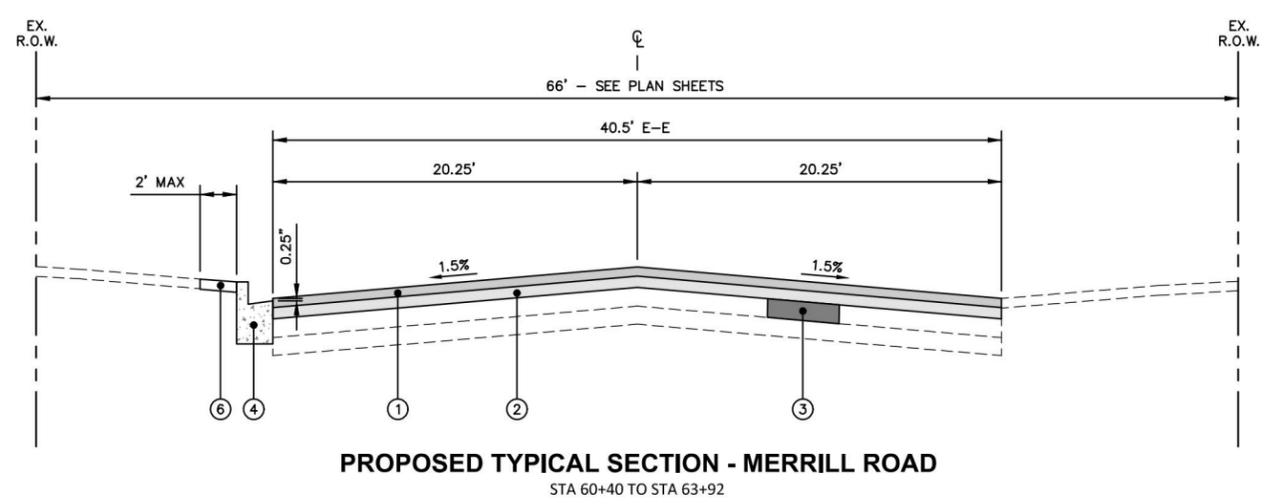
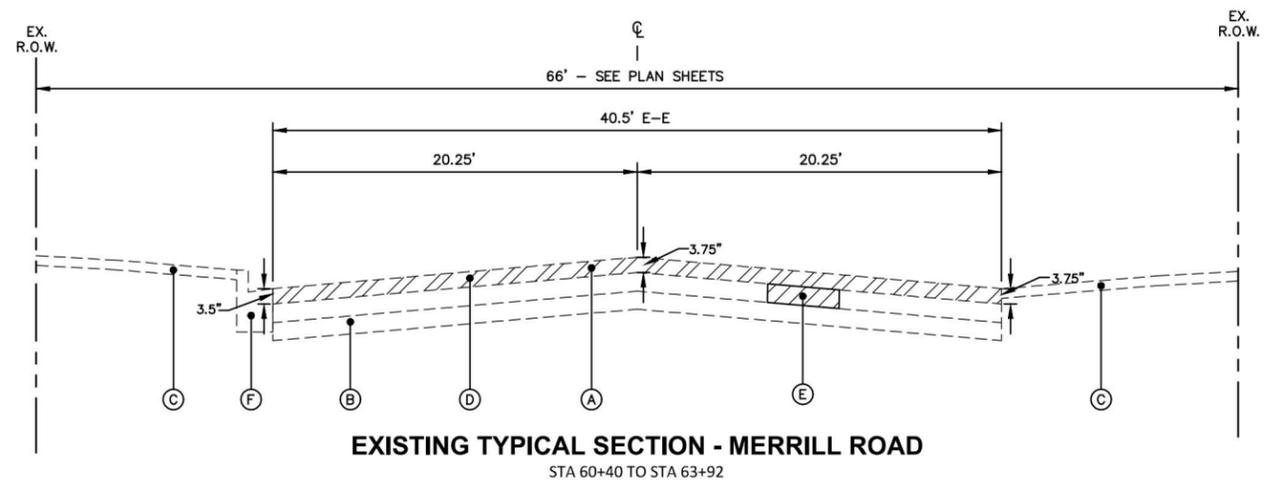
PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1.5"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"
- (3) CLASS D PATCH, 5" (LOCATIONS TO BE DETERMINED BY ENGINEER)
- (4) COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (LOCATIONS TO BE DETERMINED BY ENGINEER)
- (5) PORTLAND CEMENT CONCRETE SIDEWALKS, 5" REMOVAL AND REPLACEMENT (LOCATIONS TO BE DETERMINED BY ENGINEER)
- (6) TOPSOIL AND SODDING, SALT TOLERANT

NOTES:
 THE PATCHING QUANTITIES HAVE BEEN ESTIMATED BASED ON FIELD OBSERVATIONS DURING DESIGN. ACTUAL QUANTITIES TO BE DETERMINED DURING CONSTRUCTION.
 NO PROPOSED WORK WILL TAKE PLACE OUTSIDE OF THE R.O.W.
 LONGITUDINAL JOINT SEALANT SHALL BE PLACED UNDER THE SURFACE LIFT.

	Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	USER NAME = Kris Pung DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. N/A TO STA. N/A	F.A.U. RTE. 2304 SECTION 24-00035-00-RS COUNTY KANE TOTAL SHEETS 21 SHEET NO. 6 CONTRACT NO. 61L61 ILLINOIS FED. AID PROJECT
	PLOT SCALE = PLOT DATE = May 12, 2025 @ 4:04 PM		DATE -			

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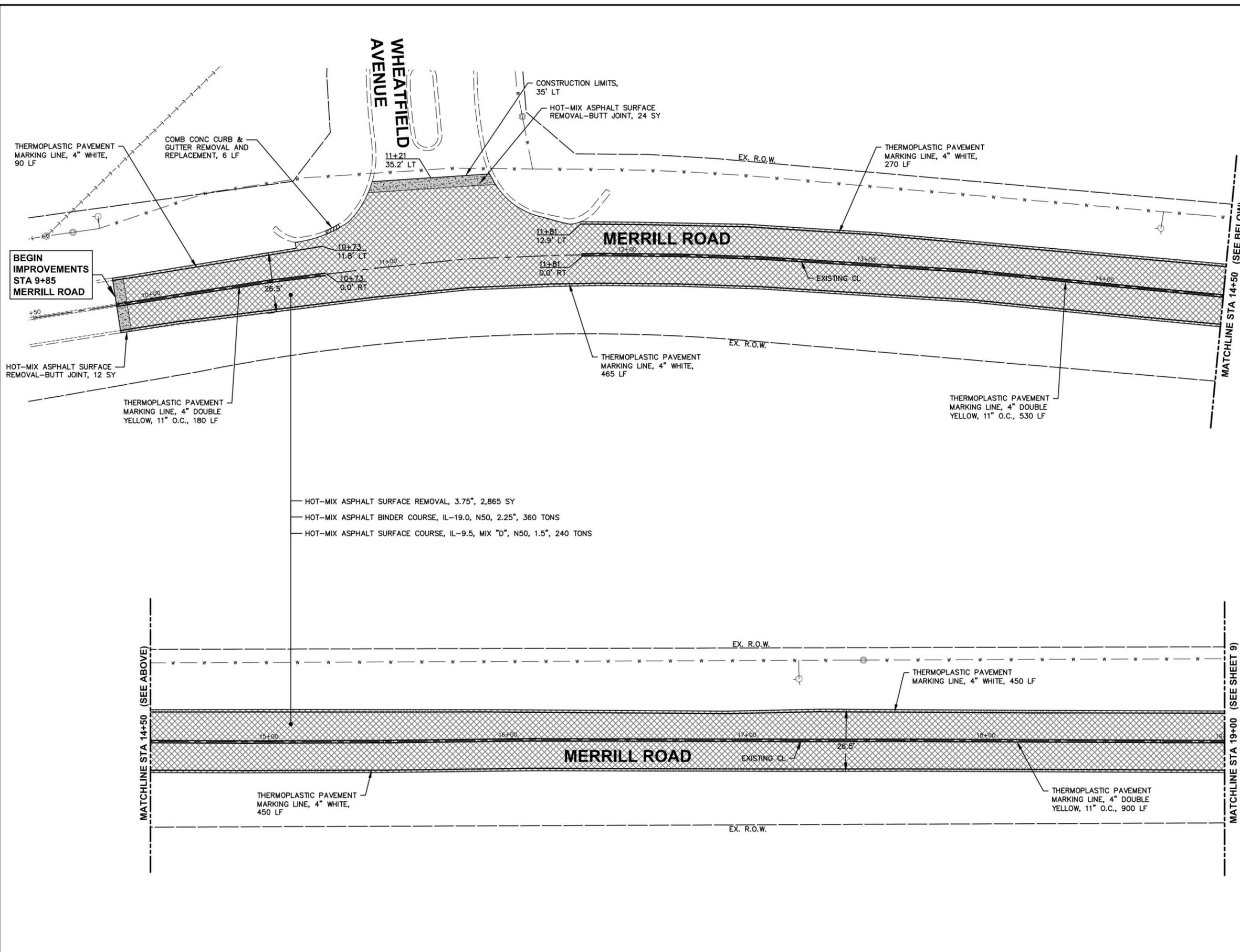
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(B)	EXISTING AGGREGATE BASE COURSE (6" - 11")
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(D)	HOT-MIX ASPHALT SURFACE REMOVAL, 3.75"
(E)	HOT-MIX ASPHALT PARTIAL DEPTH REMOVAL, 5"
(F)	EXISTING COMBINATION CONCRETE CURB & GUTTER
(G)	EXISTING SIDEWALK

PROPOSED LEGEND	
(1)	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1.5"
(2)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"
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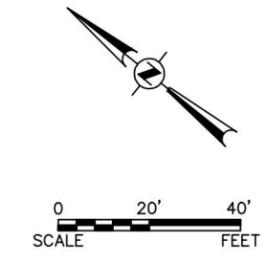
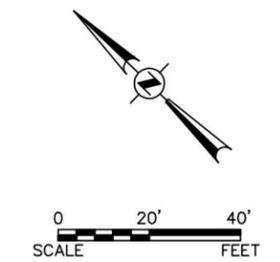
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 LONGITUDINAL JOINT SEALANT SHALL BE PLACED UNDER THE SURFACE LIFT.

	Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	USER NAME = Kris Pung DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS	F.A.U. RTE. 2304 SECTION 24-00035-00-RS COUNTY KANE CONTRACT NO. 61L61	TOTAL SHEETS 21 SHEET NO. 7
	PLOT SCALE = PLOT DATE = May 12, 2025 @ 4:04 PM		DATE - REVISED -		SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. N/A TO STA. N/A		ILLINOIS FED. AID PROJECT

FILE NAME = H:\S\SR\PROJ\SG_SUGAR GROVE\2024\SG2410\DWG_FINAL_ENG\SG2410-PLAN
 Plotted: May 12, 2025 @ 4:04 PM By: Kris Pung - Model Name: 08 Merrill Road



HOT-MIX ASPHALT SURFACE REMOVAL, 3.75", 2,865 SY
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25", 360 TONS
 HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1.5", 240 TONS



NOTE:
 ANY SOILS GENERATED FROM CURB REPAIRS SHALL REMAIN ON SITE IN THE RIGHT OF WAY. ANY SUCH SOIL SHALL BE PLACED IN THE PARKWAY BETWEEN STA 12+00 AND 37+00 LEFT AND AS DIRECTED BY THE ENGINEER.

LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL, 3.75"
- HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT
- COMB CONC C&G REMOVAL AND REPLACEMENT
- HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
- BIKE PATH REMOVAL AND PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- SIDEWALK REMOVAL AND PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- BIKE PATH REMOVAL

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 52 Wheeler Road
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USER NAME = Kris Pung	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE =	CHECKED -	REVISED -	
PLOT DATE = May 12, 2025 @ 4:04 PM	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

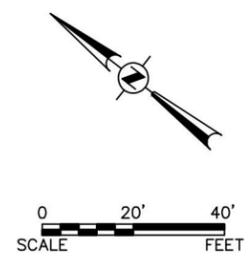
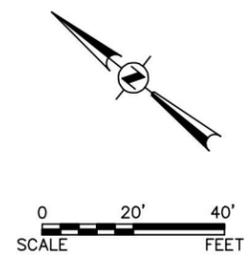
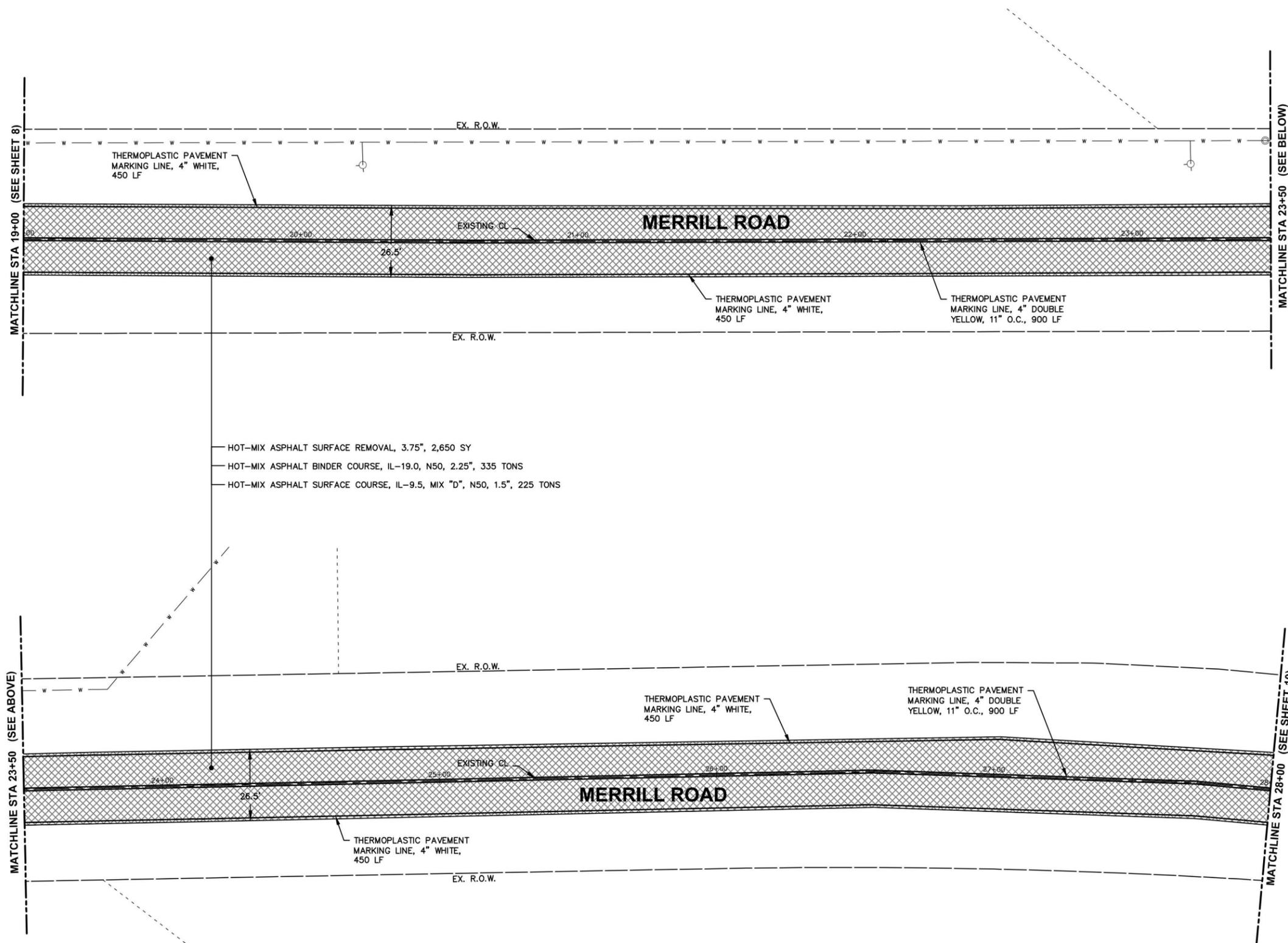
MERRILL ROAD
RESURFACING PLAN

SCALE: 1"=20' SHEET 1 OF 6 SHEETS STA. 9+85 TO STA. 19+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2304	24-00035-00-RS	KANE	21	8
			CONTRACT NO. 6IL6I	
ILLINOIS FED. AID PROJECT				

Plotted: May 12, 2025 @ 4:04 PM By: Kris Pung - Model Name: 09 Merrill Road

FILE NAME = H:\SSKPROJ\SG_SUGAR GROVE\2024\SG2410\DWG_FINAL_ENG\SG2410-PLAN



NOTE:
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LEGEND

	HOT-MIX ASPHALT SURFACE REMOVAL, 3.75"
	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT
	COMB CONC C&G REMOVAL AND REPLACEMENT
	HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
	BIKE PATH REMOVAL AND PORTLAND CEMENT CONCRETE SIDEWALK, 5"
	SIDEWALK REMOVAL AND PORTLAND CEMENT CONCRETE SIDEWALK, 5"
	BIKE PATH REMOVAL

Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	USER NAME = Kris Pung	DESIGNED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE = May 12, 2025 @ 4:04 PM	CHECKED -	REVISED -
		DATE -	REVISED -

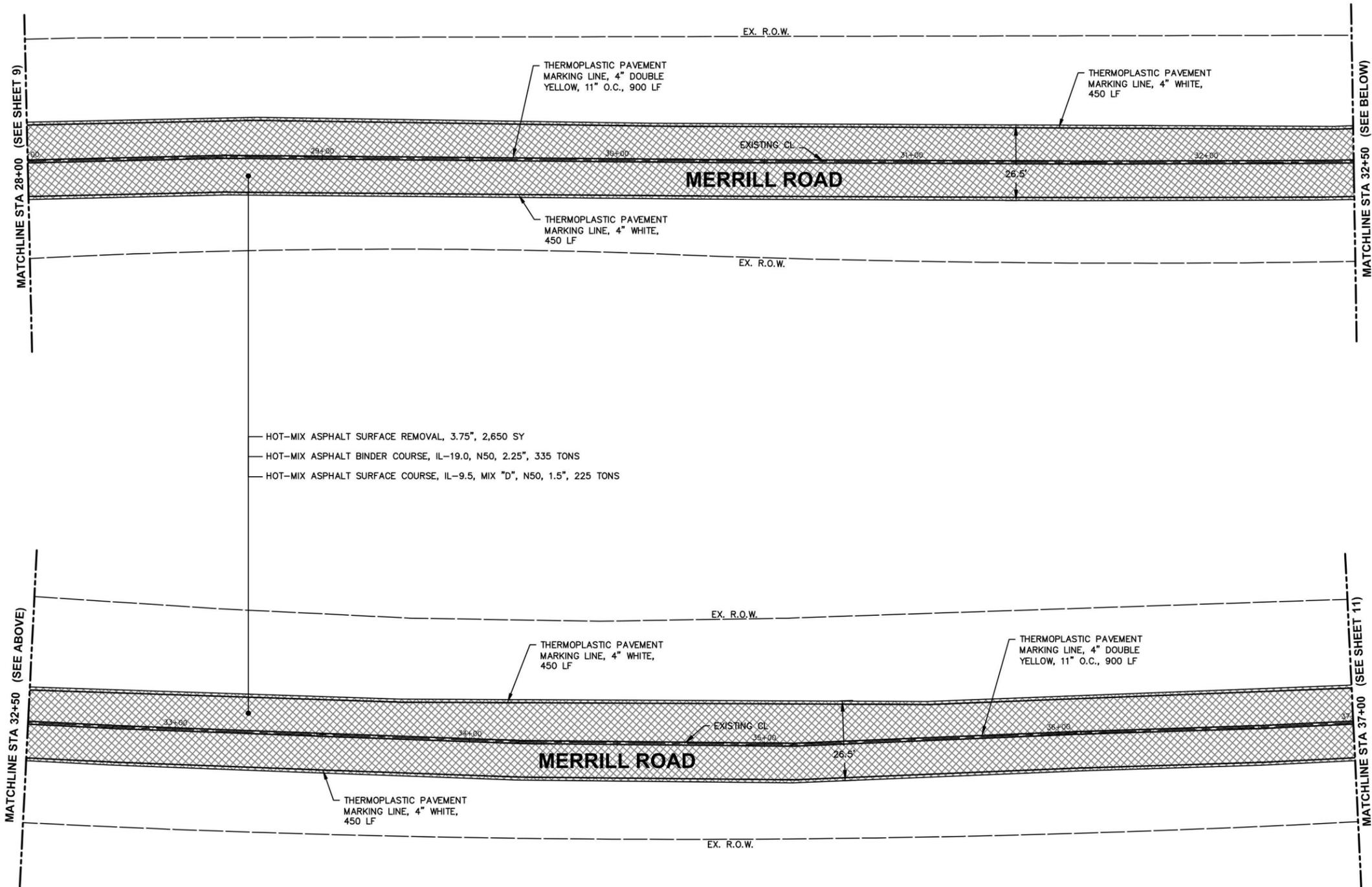
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MERRILL ROAD
 RESURFACING PLAN**

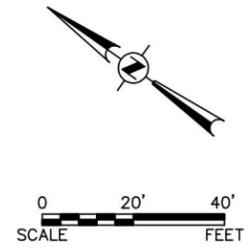
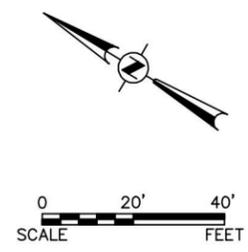
SCALE: 1"=20' SHEET 2 OF 6 SHEETS STA. 19+00 TO STA. 28+00

F.A.U. RTE. 2304	SECTION 24-00035-00-RS	COUNTY KANE	TOTAL SHEETS 21	SHEET NO. 9
CONTRACT NO. 61L61			ILLINOIS FED. AID PROJECT	

FILE NAME = H:\SDS\PROJ\SG_SUGAR GROVE\2024\SG2410\DWG_FINAL_ENG\SG2410-PLAN
 Plotted: May 12, 2025 @ 4:04 PM By: Kris Pung - Model Name: 10 Merrill Road



— HOT-MIX ASPHALT SURFACE REMOVAL, 3.75", 2,650 SY
 — HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25", 335 TONS
 — HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1.5", 225 TONS



NOTE:
 ANY SOILS GENERATED FROM CURB REPAIRS SHALL REMAIN ON SITE IN THE RIGHT OF WAY. ANY SUCH SOIL SHALL BE PLACED IN THE PARKWAY BETWEEN STA 12+00 AND 37+00 LEFT AND AS DIRECTED BY THE ENGINEER.

LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL, 3.75"
- HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT
- COMB CONC C&G REMOVAL AND REPLACEMENT
- HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
- BIKE PATH REMOVAL AND PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- SIDEWALK REMOVAL AND PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- BIKE PATH REMOVAL

Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	USER NAME = Kris Pung	DESIGNED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE = May 12, 2025 @ 4:04 PM	CHECKED -	REVISED -
		DATE -	REVISED -

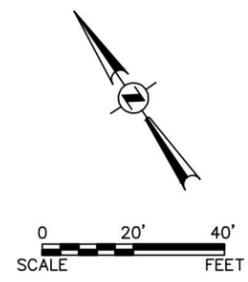
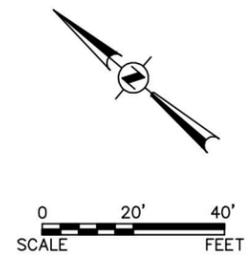
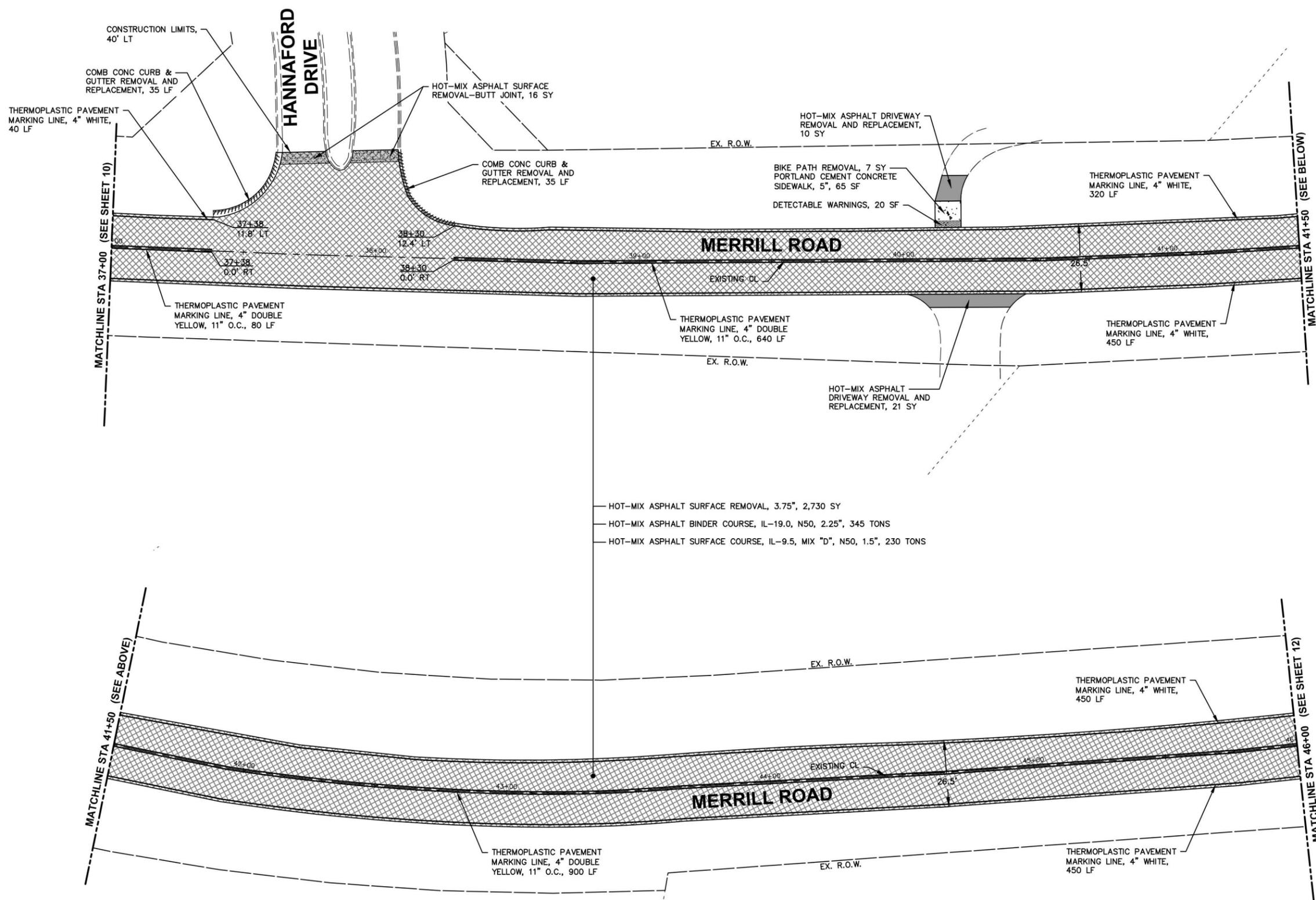
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MERRILL ROAD
 RESURFACING PLAN**

SCALE: 1"=20' SHEET 3 OF 6 SHEETS STA. 28+00 TO STA. 37+00

F.A.U. RTE. 2304	SECTION 24-00035-00-RS	COUNTY KANE	TOTAL SHEETS 21	SHEET NO. 10
CONTRACT NO. 6IL6I			ILLINOIS FED. AID PROJECT	

FILE NAME = H:\SDS\PROJ\SG_SUGAR GROVE\2024\SG2410\DWG_FINAL_ENG\SG2410-PLAN
 Plotted: May 12, 2025 @ 4:04 PM By: Kris Pung - Model Name: 11 Merrill Road



NOTE:
 ANY SOILS GENERATED FROM CURB REPAIRS SHALL REMAIN ON SITE IN THE RIGHT OF WAY. ANY SUCH SOIL SHALL BE PLACED IN THE PARKWAY BETWEEN STA 12+00 AND 37+00 LEFT AND AS DIRECTED BY THE ENGINEER.

LEGEND

	HOT-MIX ASPHALT SURFACE REMOVAL, 3.75"
	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT
	COMB CONC C&G REMOVAL AND REPLACEMENT
	HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
	BIKE PATH REMOVAL AND PORTLAND CEMENT CONCRETE SIDEWALK, 5"
	SIDEWALK REMOVAL AND PORTLAND CEMENT CONCRETE SIDEWALK, 5"
	BIKE PATH REMOVAL

 Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	USER NAME = Kris Pung	DESIGNED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE = May 12, 2025 @ 4:04 PM	CHECKED -	REVISED -
		DATE -	REVISED -

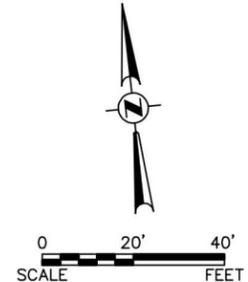
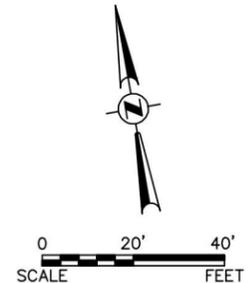
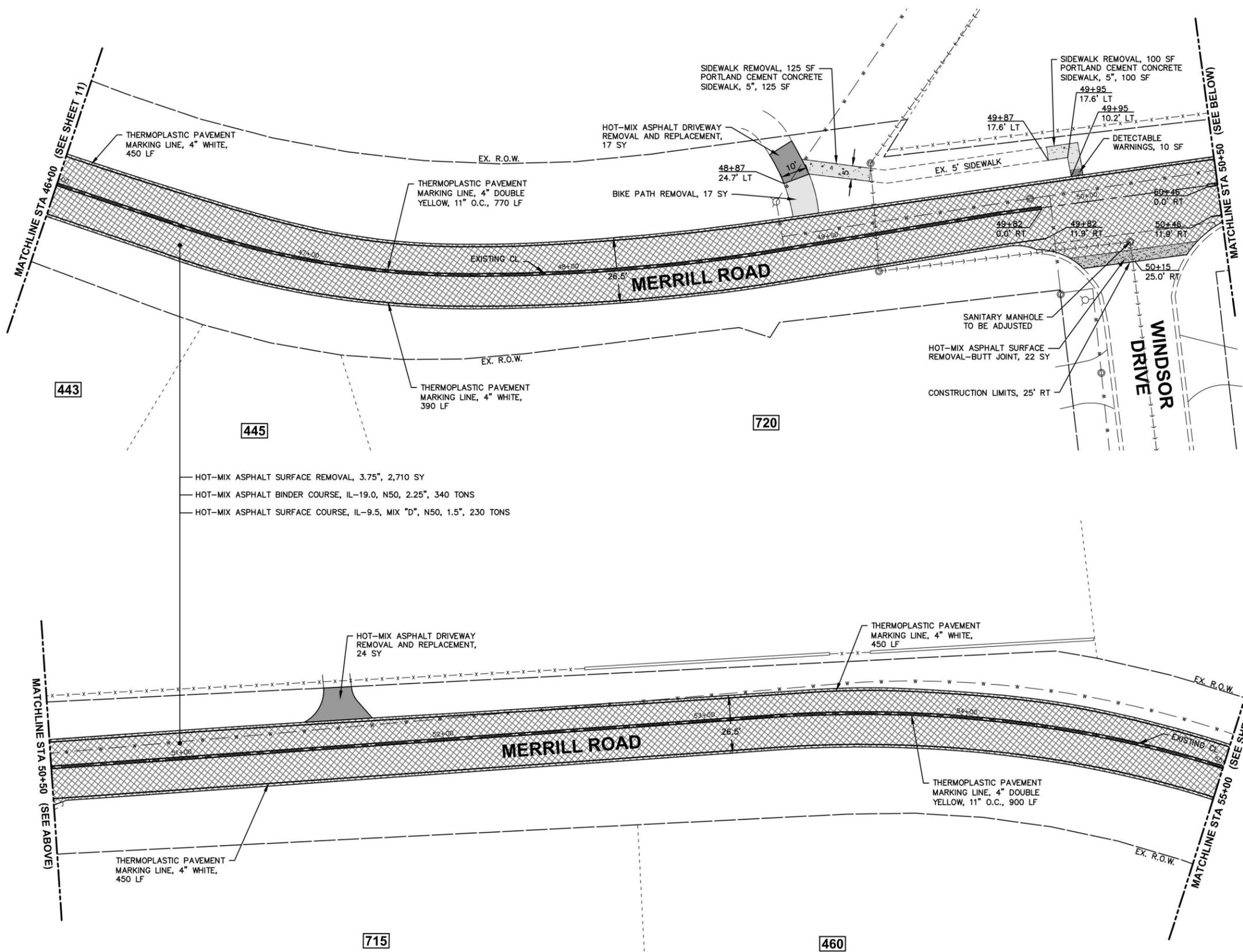
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MERRILL ROAD
 RESURFACING PLAN**

SCALE: 1"=20' SHEET 4 OF 6 SHEETS STA. 37+00 TO STA. 46+00

F.A.U. RTE. 2304	SECTION 24-00035-00-RS	COUNTY KANE	TOTAL SHEETS 21	SHEET NO. 11
CONTRACT NO. 61L61			ILLINOIS FED. AID PROJECT	

FILE NAME = H:\SDS\PROJ\SG_SUGAR GROVE\2024\SG2410\DWG_FINAL_ENG\SG2410-PLAN
 Plotted: May 12, 2025 @ 4:04 PM By: Kris Pung - Model Name: 12 Merrill Road



NOTE:
 ANY SOILS GENERATED FROM CURB REPAIRS SHALL REMAIN ON SITE IN THE RIGHT OF WAY. ANY SUCH SOIL SHALL BE PLACED IN THE PARKWAY BETWEEN STA 12+00 AND 37+00 LEFT AND AS DIRECTED BY THE ENGINEER.

LEGEND

	HOT-MIX ASPHALT SURFACE REMOVAL, 3.75"
	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT
	COMB CONC C&G REMOVAL AND REPLACEMENT
	HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
	BIKE PATH REMOVAL AND PORTLAND CEMENT CONCRETE SIDEWALK, 5"
	SIDEWALK REMOVAL AND PORTLAND CEMENT CONCRETE SIDEWALK, 5"
	BIKE PATH REMOVAL

Engineering Enterprises, Inc.
 CONSULTING ENGINEERS
 52 Wheeler Road
 Sugar Grove, Illinois 60554
 630.466.6700 / www.eeiweb.com

USER NAME = Kris Pung	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = May 12, 2025 @ 4:04 PM	DATE -	REVISED -

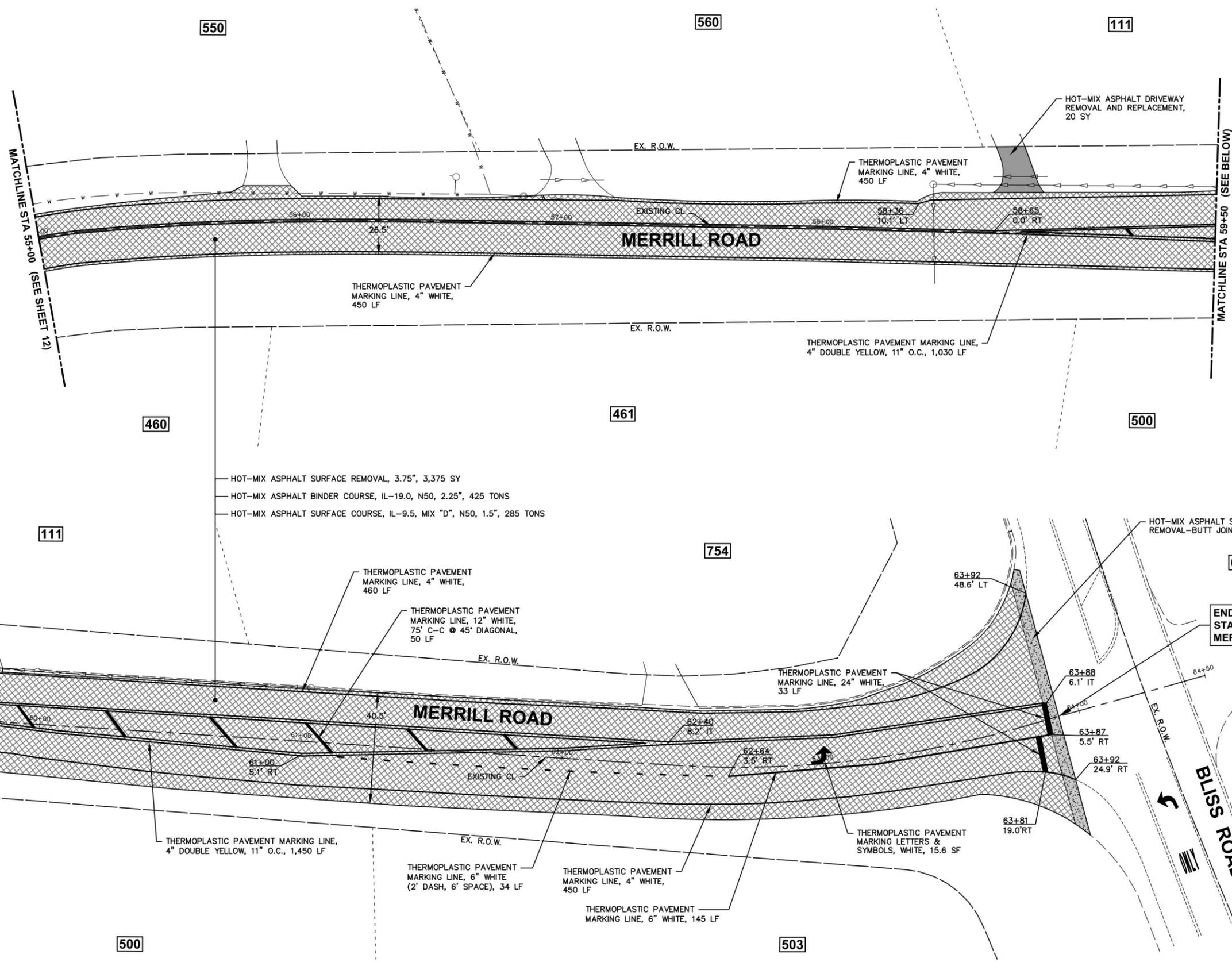
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MERRILL ROAD
 RESURFACING PLAN**

SCALE: 1"=20' SHEET 5 OF 6 SHEETS STA. 46+00 TO STA. 55+00

F.A.U. RTE. 2304	SECTION 24-00035-00-RS	COUNTY KANE	TOTAL SHEETS 21	SHEET NO. 12
CONTRACT NO. 61L61			ILLINOIS FED. AID PROJECT	

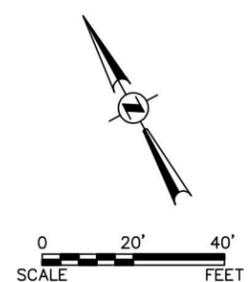
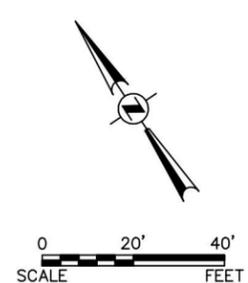
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 Plotted: May 12, 2025 @ 4:05 PM By: Kris Pung - Model Name: 13 Merrill Road



— HOT-MIX ASPHALT SURFACE REMOVAL, 3.75", 3,375 SY
 — HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25", 425 TONS
 — HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1.5", 285 TONS

NOTE:
 ANY SOILS GENERATED FROM CURB REPAIRS SHALL REMAIN ON SITE IN THE RIGHT OF WAY. ANY SUCH SOIL SHALL BE PLACED IN THE PARKWAY BETWEEN STA 12+00 AND 37+00 LEFT AND AS DIRECTED BY THE ENGINEER.

LEGEND	
	HOT-MIX ASPHALT SURFACE REMOVAL, 3.75"
	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT
	COMB CONC C&G REMOVAL AND REPLACEMENT
	HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
	BIKE PATH REMOVAL AND PORTLAND CEMENT CONCRETE SIDEWALK, 5"
	SIDEWALK REMOVAL AND PORTLAND CEMENT CONCRETE SIDEWALK, 5"
	BIKE PATH REMOVAL



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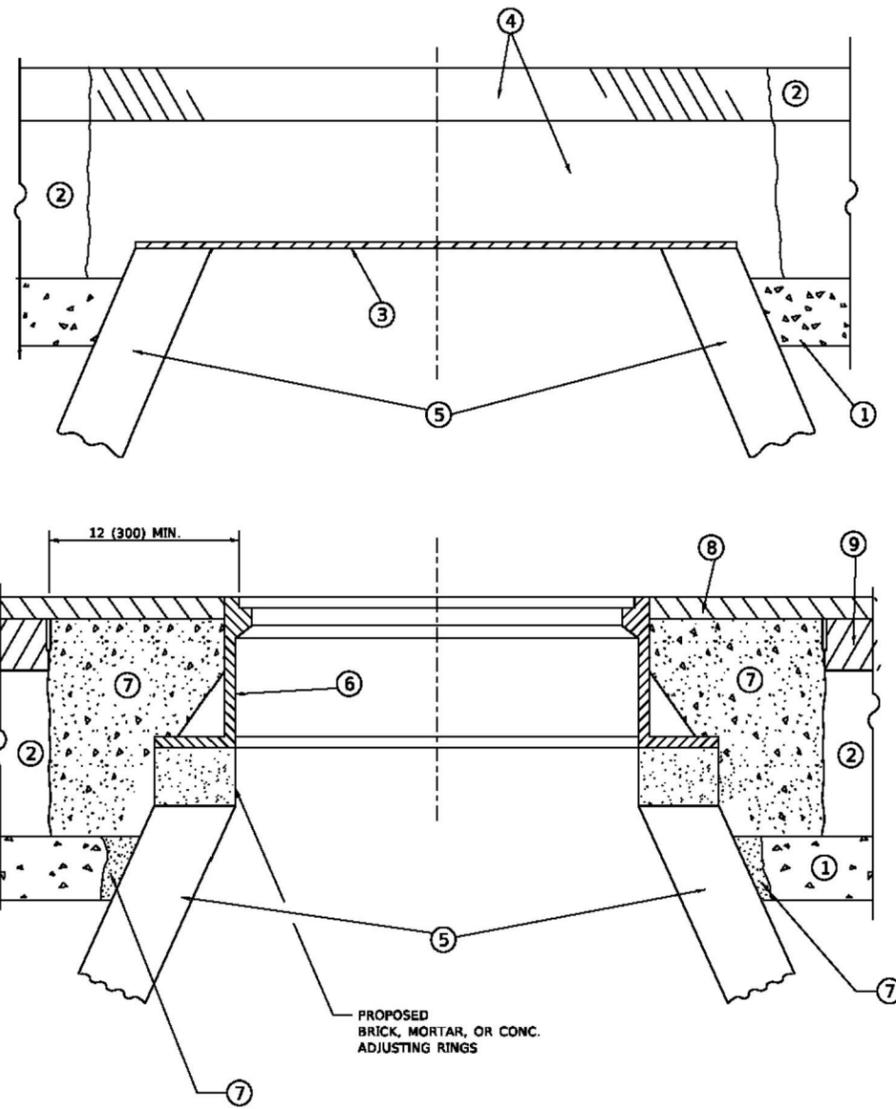
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PLOT DATE = May 12, 2025 @ 4:05 PM	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MERRILL ROAD
RESURFACING PLAN

SCALE: 1"=20' SHEET 6 OF 6 SHEETS STA. 55+00 TO STA. 63+92

F.A.U. RTE. 2304	SECTION 24-00035-00-RS	COUNTY KANE	TOTAL SHEETS 21	SHEET NO. 13
CONTRACT NO. 61L61			ILLINOIS FED. AID PROJECT	



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

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.
5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

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. 3 (80) 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-2* 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 | ⑥ FRAME AND LID (SEE NOTES) |
| ② EXISTING PAVEMENT | ⑦ CLASS PP-2* CONCRETE |
| ③ 36 (900) DIAMETER METAL PLATE | ⑧ PROPOSED HMA SURFACE COURSE |
| ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX | ⑨ PROPOSED HMA BINDER COURSE |
| ⑤ EXISTING STRUCTURE | |

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

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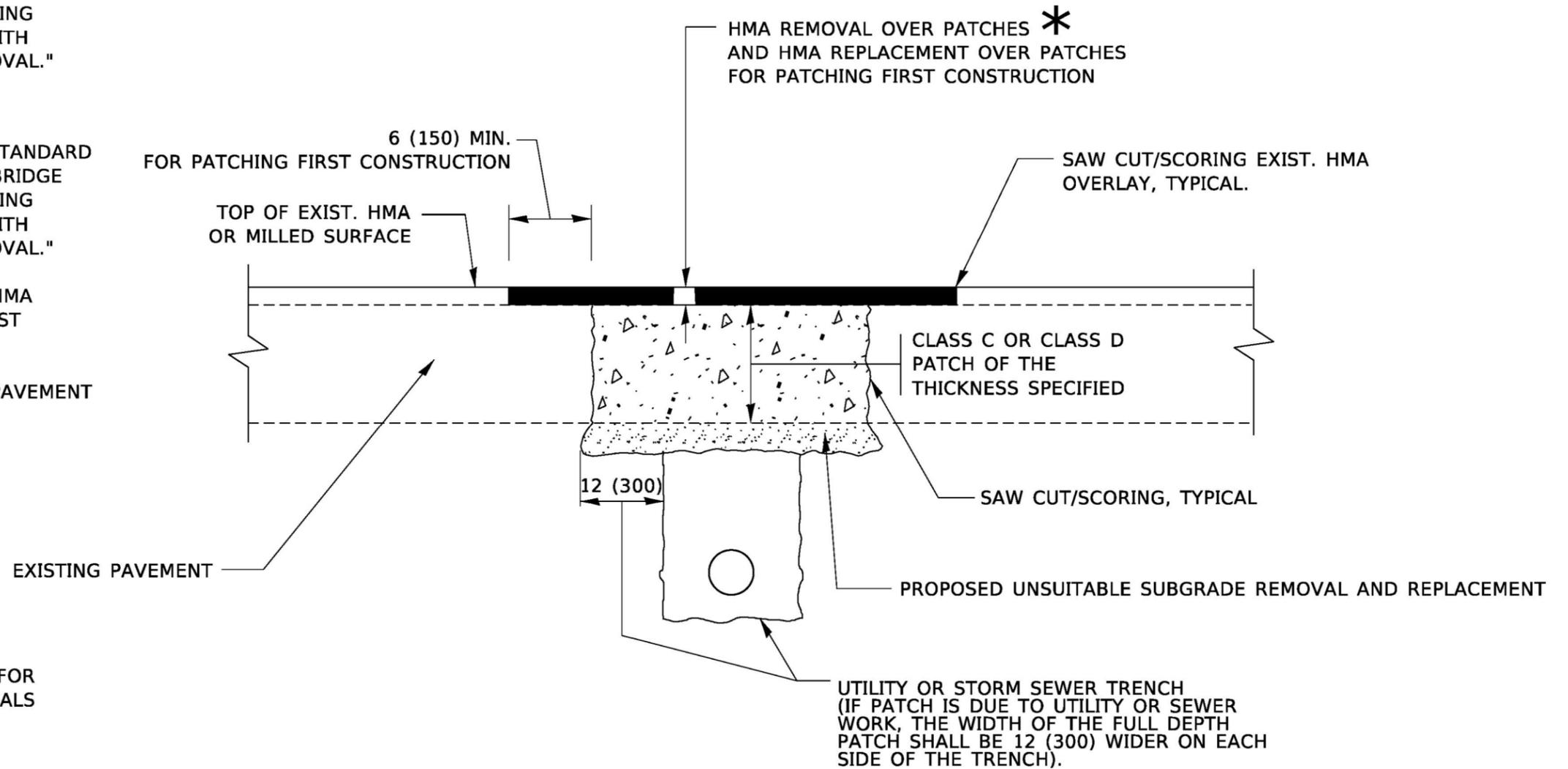
Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	USER NAME = Lawrence.DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 03-09-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING		F.A.U. RTE. 2304	SECTION 24-00035-00-RS	COUNTY KANE	TOTAL SHEETS 21	SHEET NO. 14
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - K. SMITH 11-18-22		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		BD600-03 (BD-08)		CONTRACT NO. 61L61		
PLOT DATE = 9/15/2023	DATE - 10-25-94	REVISED - K. SMITH 09-15-23			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.

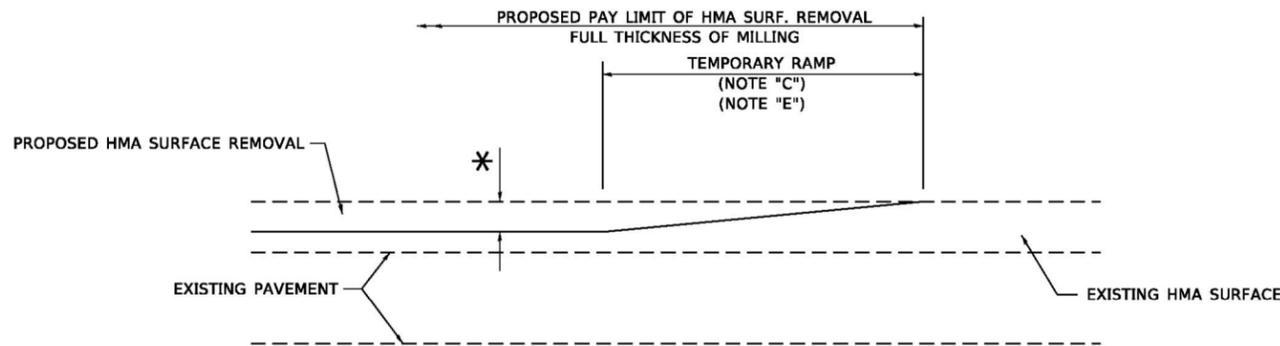
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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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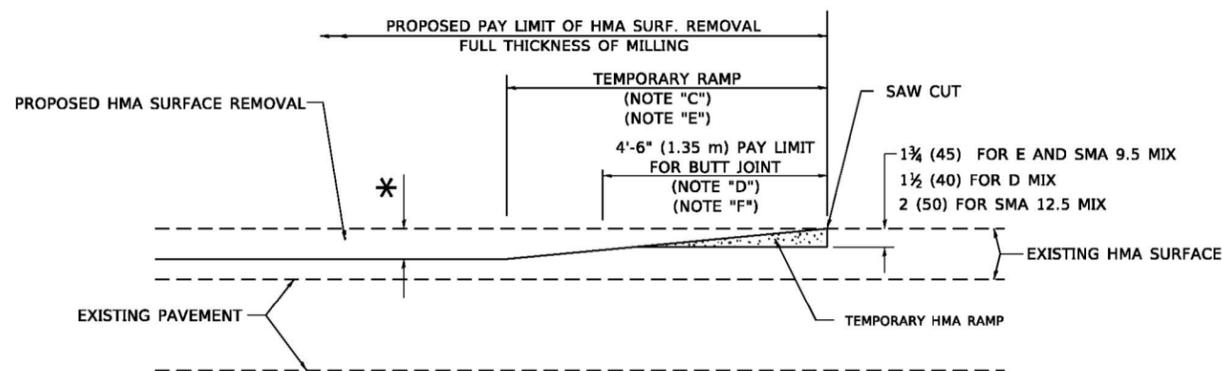
<p>Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com</p>	USER NAME = Lawrence.DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07	<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</p>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. BORO 09-04-07				2304	24-00035-00-RS	KANE	21	15
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - K. ENG 10-27-08				<p>BD400-04 (BD-22)</p>				CONTRACT NO. 61L61
	PLOT DATE = 11/18/2022	DATE - 10-25-94	REVISED - K. SMITH 11-18-22				SCALE: NONE	SHEET 1	OF 1	SHEETS	STA. TO STA.



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

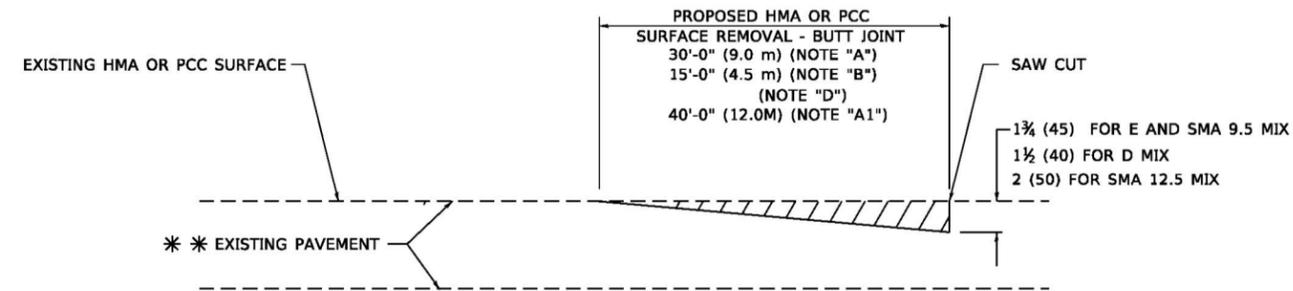


HMA CONSTRUCTED TEMPORARY RAMP

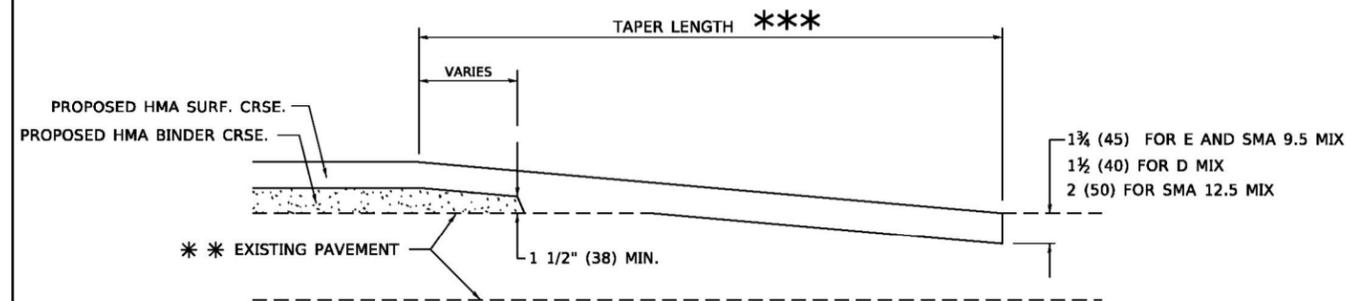
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

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.

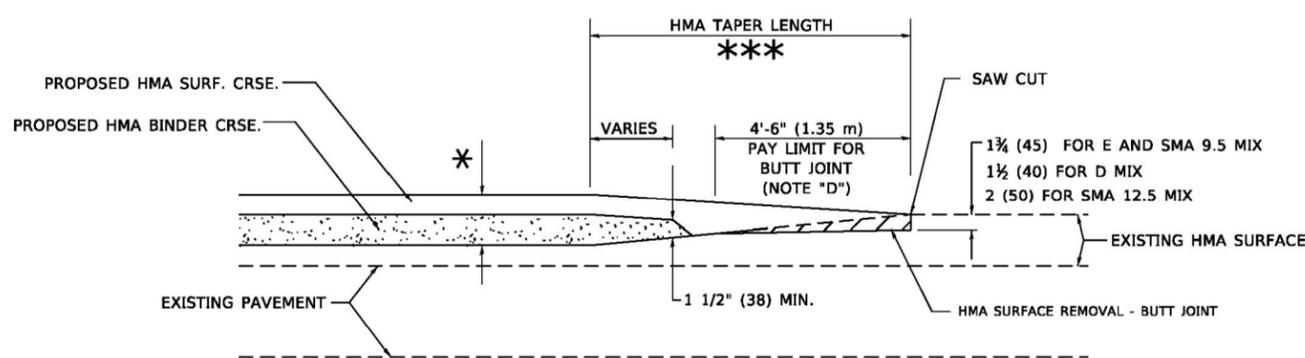
GENERAL NOTES

- 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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Engineering Enterprises, Inc.
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52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

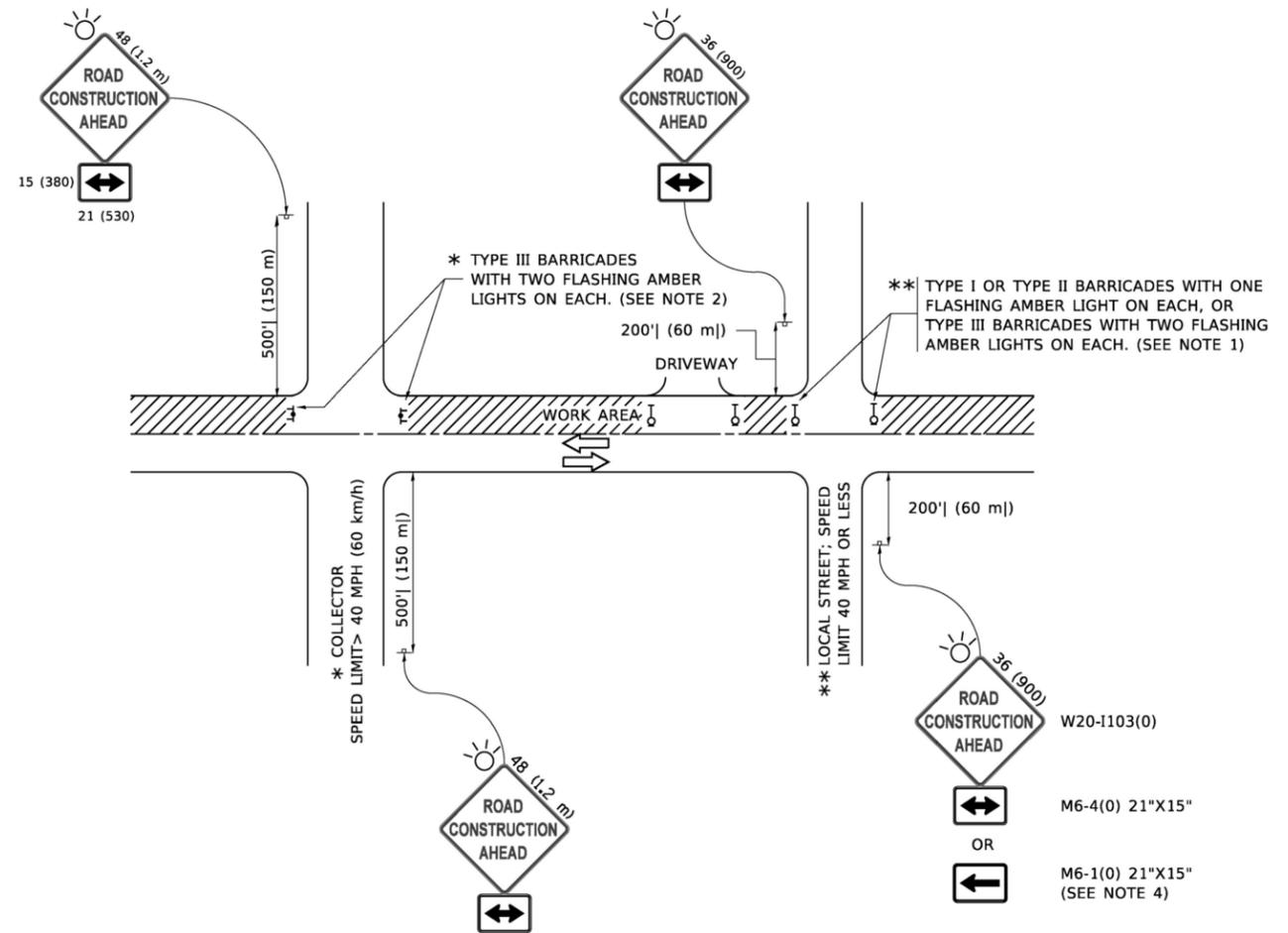
USER NAME = Lawrence.DeManche	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT DATE = 11/18/2022	CHECKED -	REVISED - R. BORO 01-01-07
	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

F.A.U. RTE. 2304	SECTION 24-00035-00-RS	COUNTY KANE	TOTAL SHEETS 21	SHEET NO. 17
BD400-05 BD-32		CONTRACT NO. 61L61		
ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. 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.

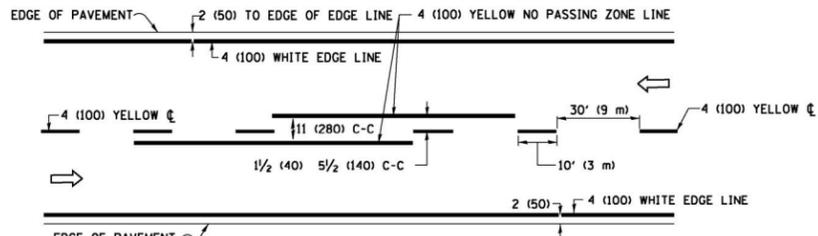
Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	PLOT SCALE = 50,000' / in.	DRAWN -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/4/2019	CHECKED -	REVISED - A. SCHUETZE 07-01-13
		DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

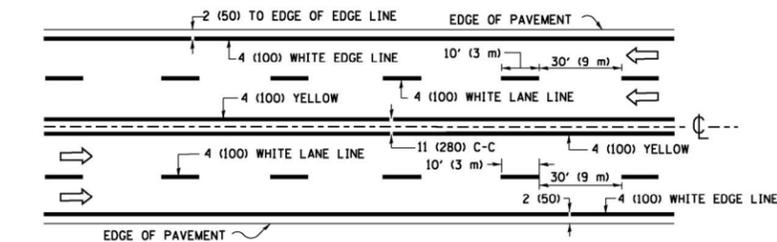
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

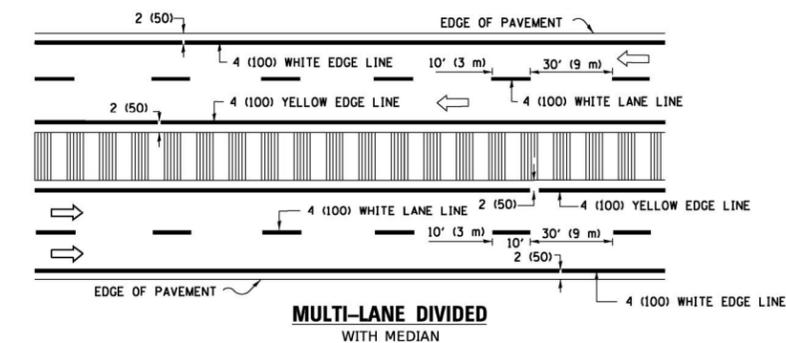
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2304	24-00035-00-RS	KANE	21	18
TC-10			CONTRACT NO. 61L61	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

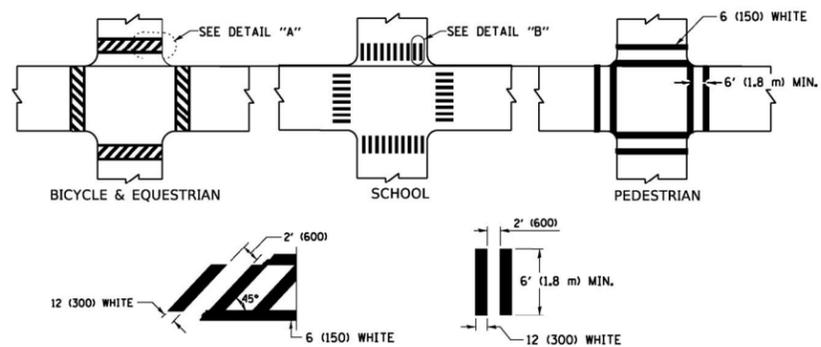


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

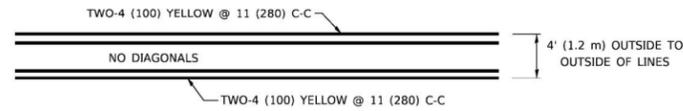


DETAIL "A"

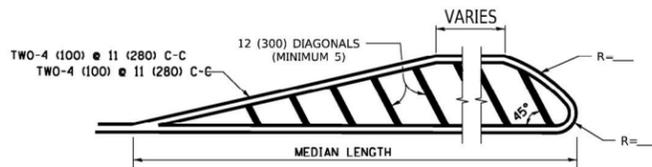
DETAIL "B"

TYPICAL CROSSWALK MARKING

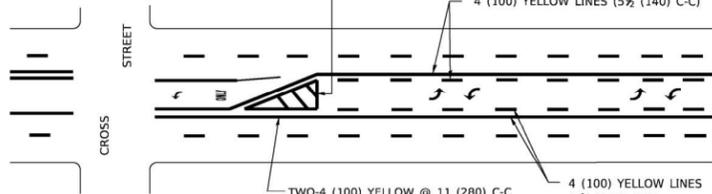
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



4' (1.2 m) WIDE MEDIANS ONLY

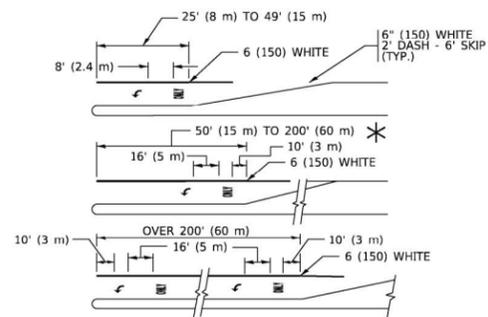


MEDIANS OVER 4' (1.2 m) WIDE



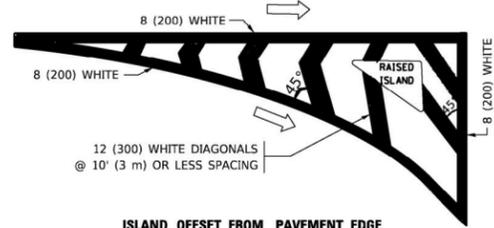
MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

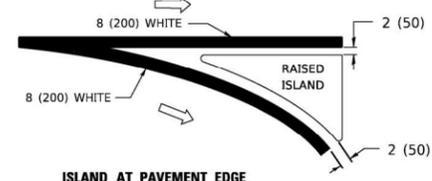


TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

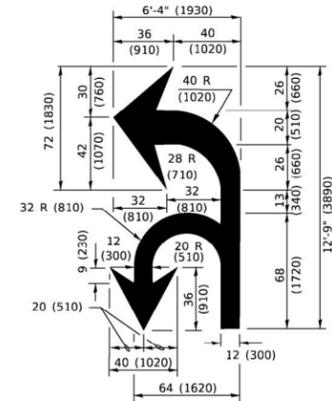


ISLAND OFFSET FROM PAVEMENT EDGE

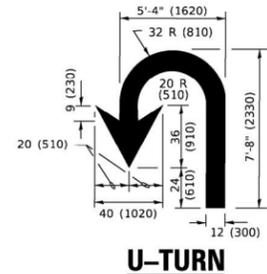


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 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 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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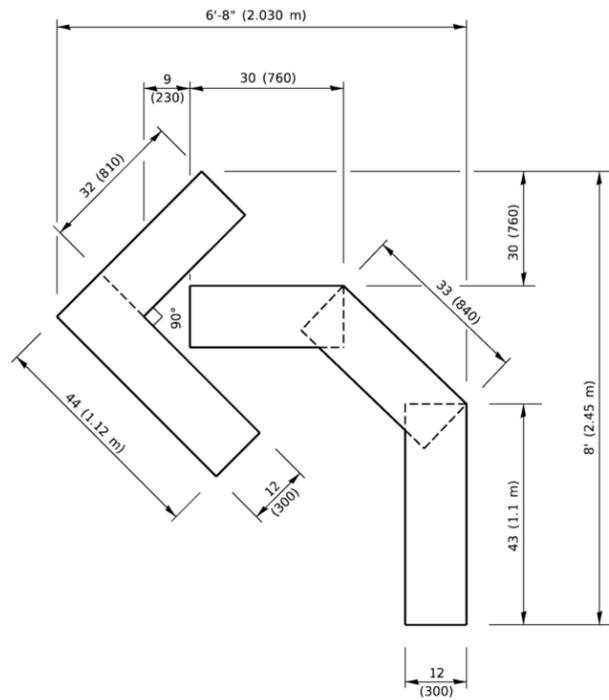
<p>Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com</p>	USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED - C. JUCIUS 07-01-13
	PLOT DATE = 3/4/2019	CHECKED -	REVISED - C. JUCIUS 12-21-15
		DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

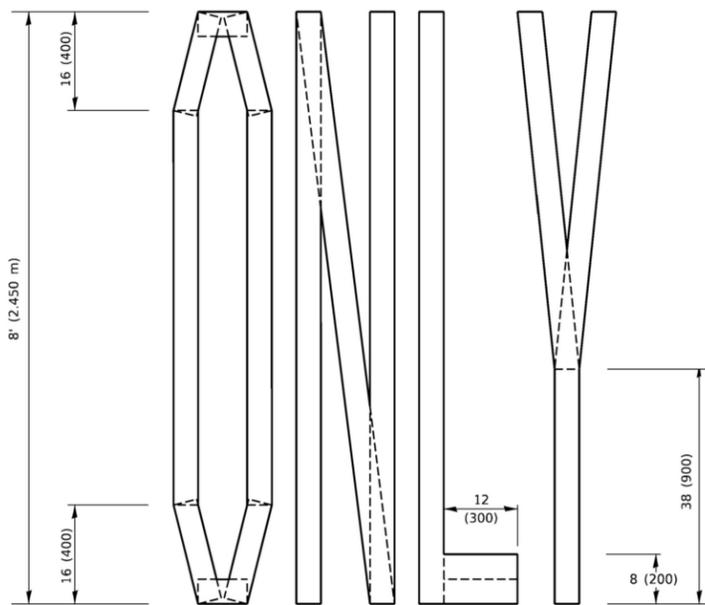
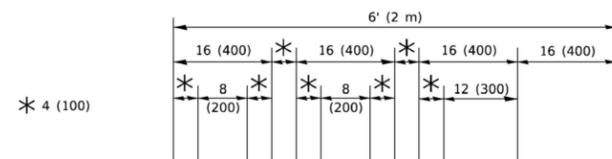
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2304	24-00035-00-RS	KANE	21	19
TC-13		CONTRACT NO. 6IL6I		
ILLINOIS FED. AID PROJECT				



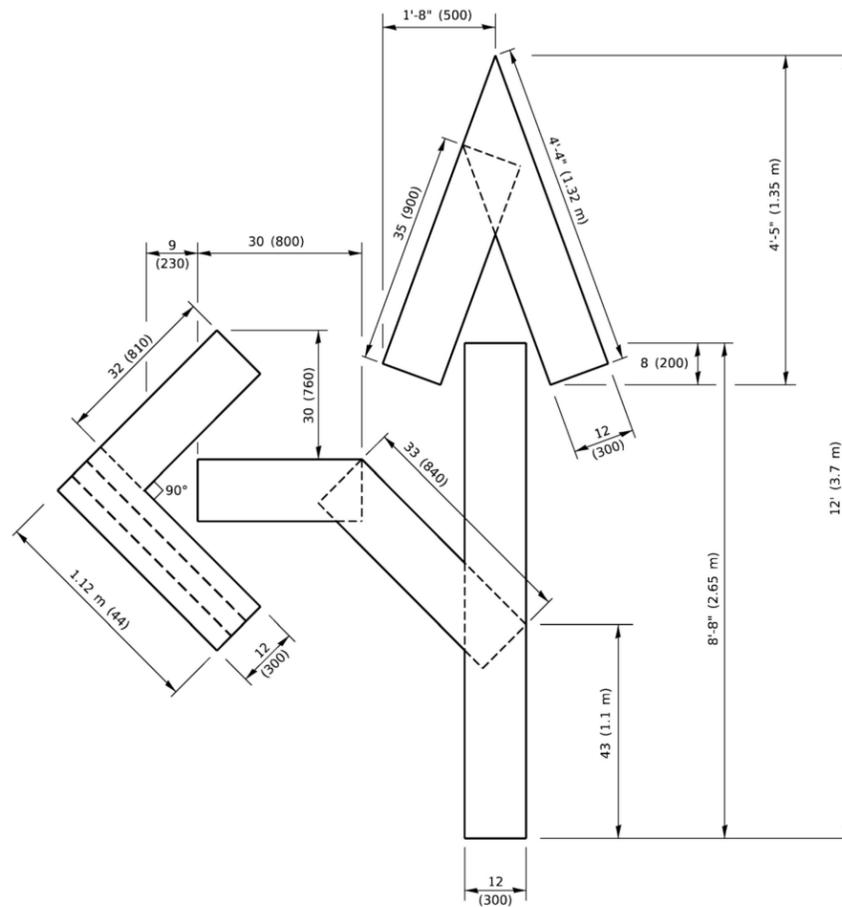
QUANTITY

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



QUANTITY

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

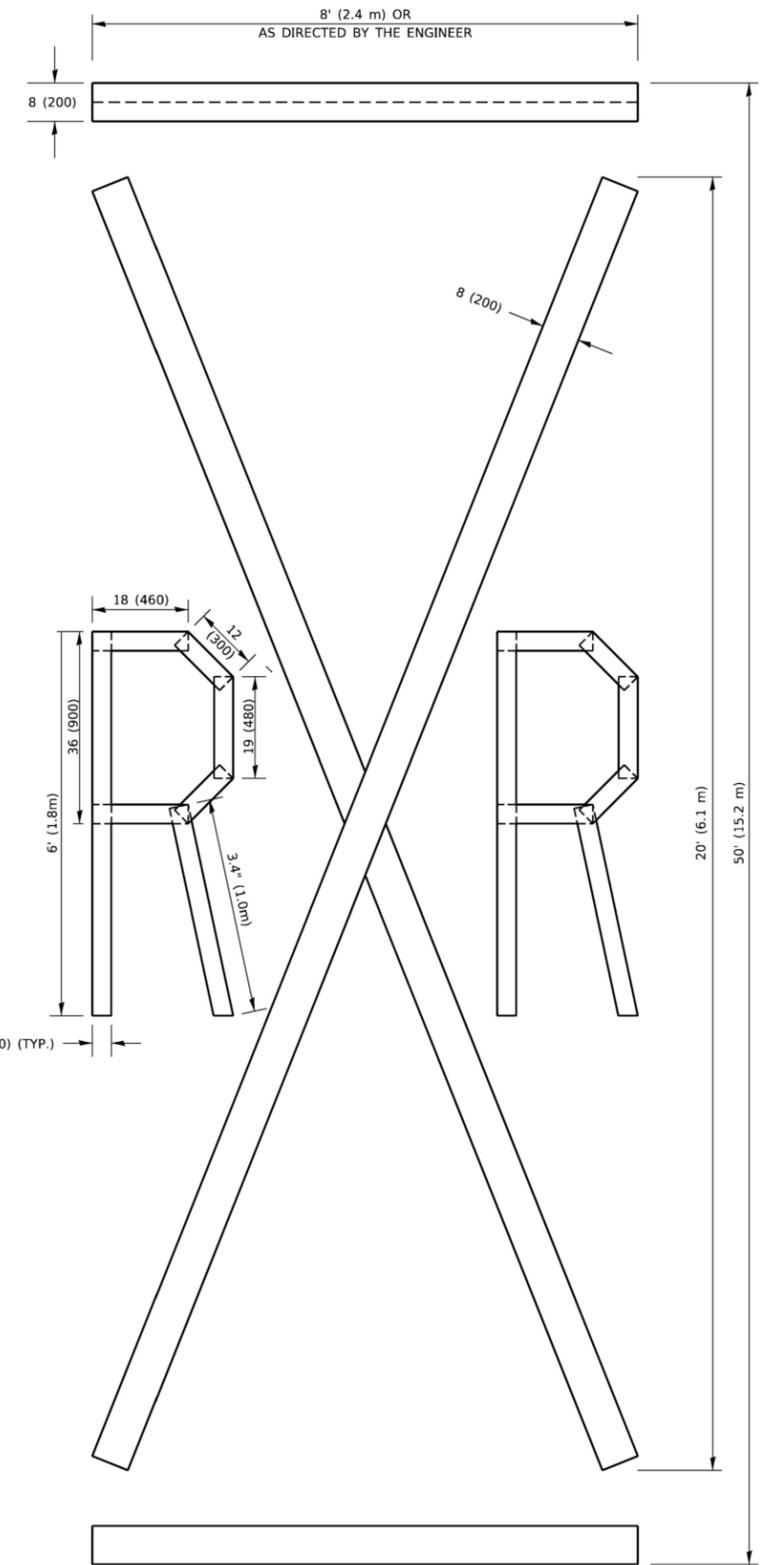


QUANTITY

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

NOTE:

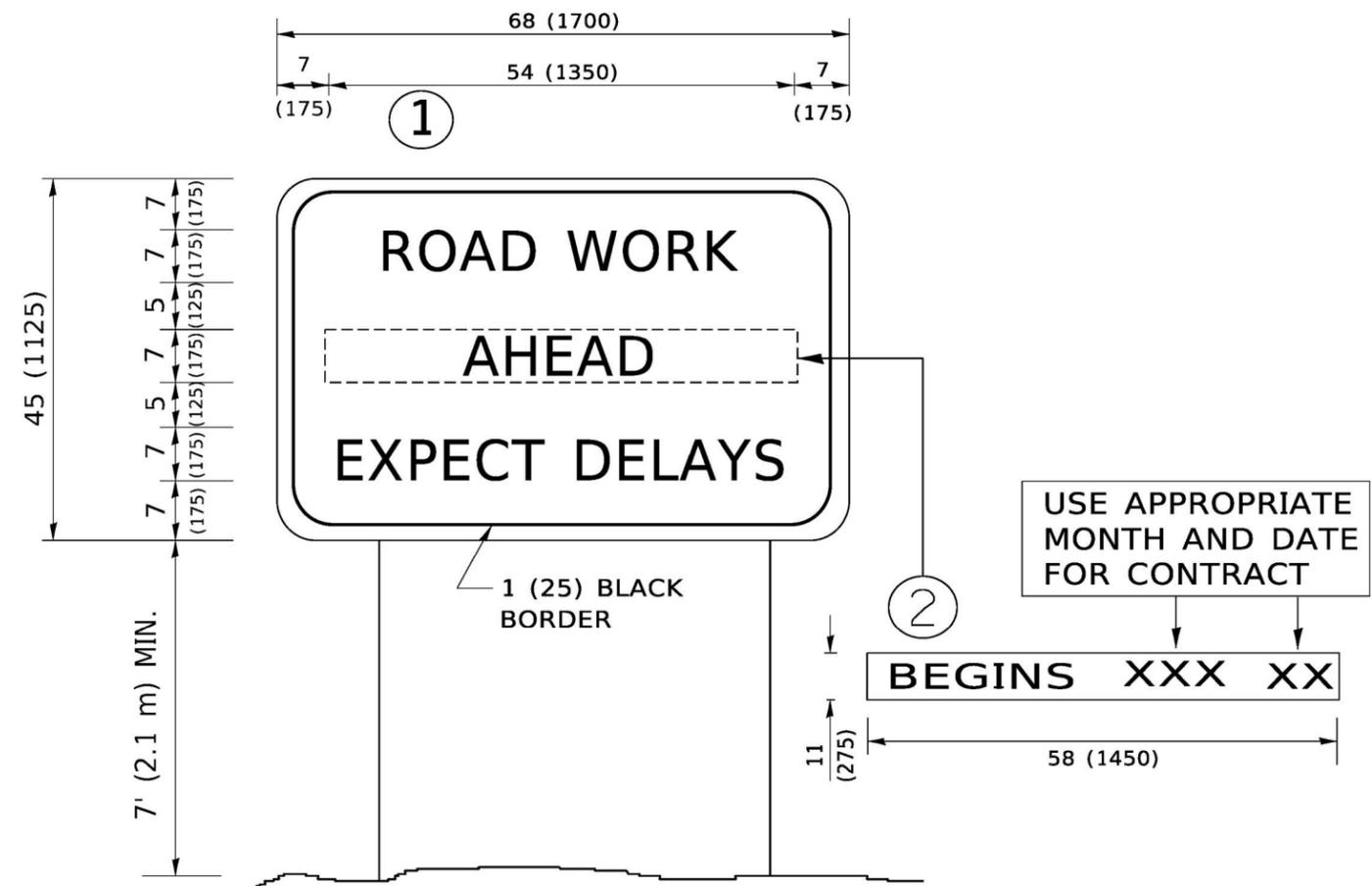
ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



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.



NOTES:

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

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

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52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
INFORMATION SIGN

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

F.A.U. RTE. 2304	SECTION 24-00035-00-RS	COUNTY KANE	TOTAL SHEETS 21	SHEET NO. 21
TC-22			CONTRACT NO. 61L61	
ILLINOIS FED. AID PROJECT				