

06-12-2020 LETTING ITEM 174

FOR INDEX OF SHEETS & STATE STANDARDS  
SEE SHEET NO. 2

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

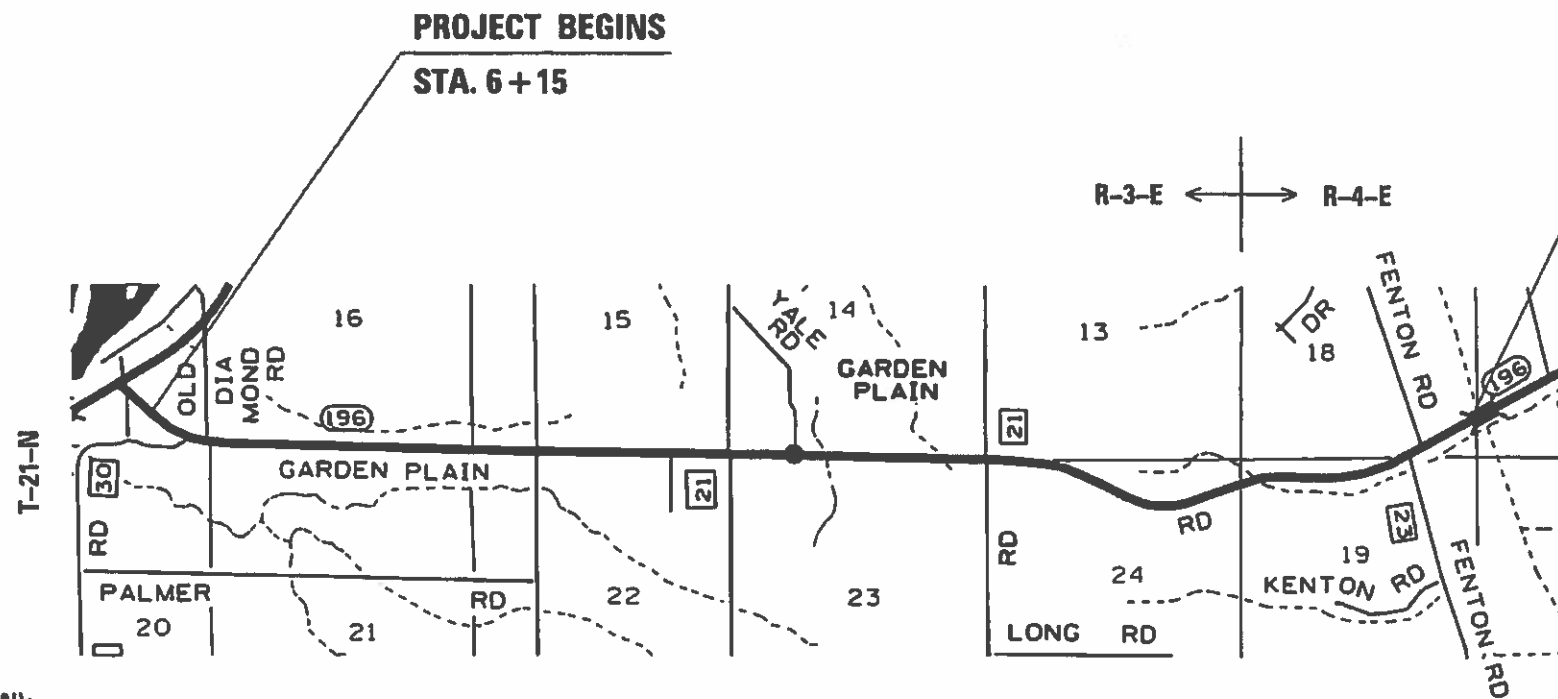
**PROPOSED  
HIGHWAY PLANS**  
FAS ROUTE 196 (GARDEN PLAIN RD.)  
SECTION D2 RS 2020-5  
PROJECT STP-DPOH(427)  
TYPE OF IMPROVEMENT: CIR W/OVERLAY  
WHITESIDE COUNTY  
C-92-047-20

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	D2 RS 2020-5	WHITESIDE	12	1

CONTRACT NO. 64P31  
D-92-034-20



LOCATION OF SECTION INDICATED THUS: -



PROJECT ENDS  
STA. 288 + 95

PROJECT BEGINS  
STA. 6 + 15

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED March 06, 20 20

*[Signature]*  
REGIONAL ENGINEER

MAY 8 20 20

*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

MAY 8 20 20

*[Signature]*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

TOWNSHIP (SECTION):  
UNION GROVE (18, 19)  
GARDEN PLAIN (13, 14, 15, 16, 17, 20, 21, 22, 23, 24)

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-492-0123

GROSS LENGTH OF PROJECT = 28,280 FT = 5.35 MILES  
NET LENGTH OF PROJECT = 28,280 FT = 5.35 MILES

CONTRACT NO. 64P31

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

PROJECT ENGINEER: SCOTT KULLERSTRAND

SQUAD LEADER: LANCE NICKLAUS 815-284-5407

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## STATE STANDARDS

701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS $\geq$ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS, DAY ONLY
701901-08	TRAFFIC CONTROL DEVICES
720011-01	METAL POST FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POST (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS

## DISTRICT STANDARDS

48.2	Safety Edge (SMART Projects)
34.1	Work Zone Sign Details
41.1	Typical Pavement Markings

**SUMMARY OF QUANTITIES**

FAS 196 (Garden Plain Road)  
SECTION D2 RS 2020-5  
Whiteside County  
Contract # 64P31  
SHEET 3 OF 12

80% Fed 20% State  
0005

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
40600290	BITUMINOIUS MATERIALS (TACK COAT)	POUND	35720
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1415
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	8993
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	203
48102100	AGGREGATE WEDGE SHOULDERS, TYPE B	TON	4158
67100100	MOBILIZATION	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	8484
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	942
* 78001110	PAINT PAVEMENT MARKING - LINE 4 INCH	FOOT	182432
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	74
X4200001	CIR -FDR EMULSIFIED ASPHALT	GALLON	136355
X4200002	COLD IN-PLACE RECYCLING 4.0 INCH	SQ YD	77917

\* Specialty Items

REV. 4/1/20

# GENERAL NOTES

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The final top 4 inches of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils. The cost of this work shall be included in the unit prices bid and no additional compensation will be allowed.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1A. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches. This work will be included in the contract unit price per ton for AGGREGATE WEDGE SHOULDERS, TYPE B.

Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed prior to seeding or placement of sod at the rate specified in Sections 250 and 252 of the Standard Specifications. This work shall be included in the cost of AGGREGATE WEDGE SHOULDERS, TYPE B.

Mulch Method II shall be applied over all seeded areas. This shall be included in the cost of the AGGREGATE WEDGE SHOULDERS, TYPE B.

The existing hot-mix asphalt on private and commercial entrances shall be bladed off or milled and disposed of outside the project limits. This could be the entire entrance or tapered at the end depending on if the mainline is resurfaced or milled and resurfaced. The cost of the blading, milling, rolling, and disposal is included in the contract unit price for INCIDENTAL HOT-MIX ASPHALT SURFACING.

The drop off that occurs at entrance edges as a result of resurfacing of the entrance shall be corrected using aggregate shoulder material. This work shall be paid for by the TON for Aggregate Shoulders of the type specified in the plans.

The following Mixture Requirements are applicable for this project:

Location(s):	RESURFACING
Mixture Use(s):	SURFACE
PG:	PG 64-22
Design Air Voids:	4.0 @ N50
Mixture Composition (Mixture Gradation):	IL 9.5
Friction Aggregate:	C
Mixture Weight:	112 lbs/sq yd/in
Quality Management Program:	QCP – Mix Only QC/QA – Density
Sublot Size:	1,000 ton
Number of Roller Passes <sup>1)</sup> :	N/A

1) When a number of roller passes is specified, the Contractor may opt to use intelligent compaction in lieu of density testing under the Quality Control for Performance (QCP) program.

The Contractor will be required to furnish 5 1/2" high brass stencils as approved by the Engineer and install stationing at 250' intervals. Stationing shall be placed on both lanes of 2-lane highways and on the outside lanes in both directions on 4-lane highways. The stations shall be placed 6" inside the pavement marking edge so they can be read from the shoulder. This work will be included in the cost of the final pavement surface.

The area to be tacked or primed shall be limited to that which can be covered with HMA on the next day's production, but no more than five days in advance of the placement of the HMA, unless approved by the Engineer.

Pavement Marking shall be done according to Standard 780001, except as follows:

1. All words, such as ONLY, shall be 8 feet high.
2. All non-freeway arrows shall be the large size.
3. The distance between yellow no-passing lines shall be 8 inches, not 7 inches, as shown in the detail of Typical Lane and Edge Lines.
4. Centerline Skip Dash Pavement Marking on multi-lane divided, multi-lane undivided, and one-way roadway shall be according to District Standard 41.1.

The Contractor shall be responsible for locating and protecting utility property during construction operations as outlined in Article 107.39 of the Standard Specifications. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

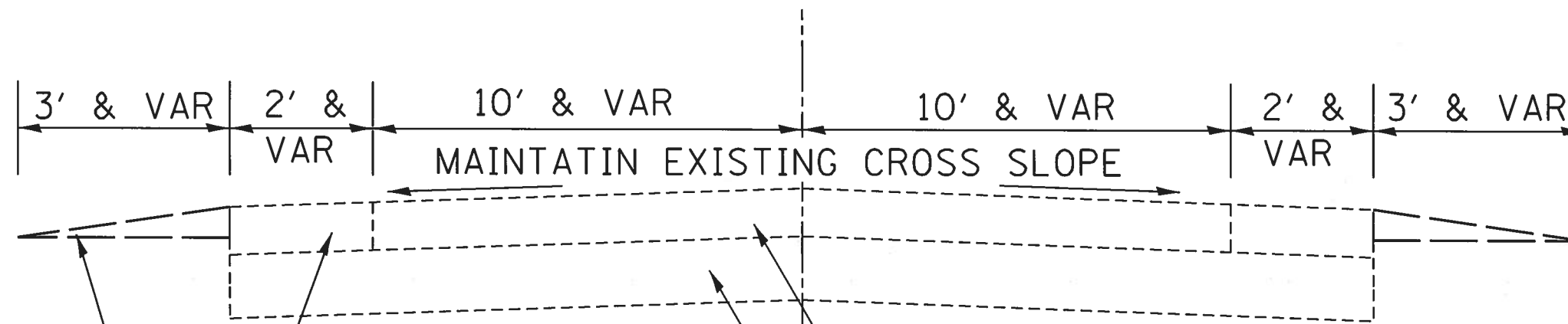
IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

The maximum width for Cold In-Place Recycling shall be 12 foot per lane. The 12 foot width shall be maintained through all entrances, mailbox turnouts, and side roads. Unless called out in the schedule as Incidental Hot-Mix Asphalt Surfacing, the quantity to resurface entrances and mailbox turnouts is included in the mainline Hot-Mix Asphalt Surface quantity and shall be placed according to the applicable typical section.

# TYPICAL SECTION

☉ GARDEN PLAIN ROAD

STA. 6+15 - 288+95



EXISTING HMA SHOULDER  
EXISTING AGGREGATE SHOULDER

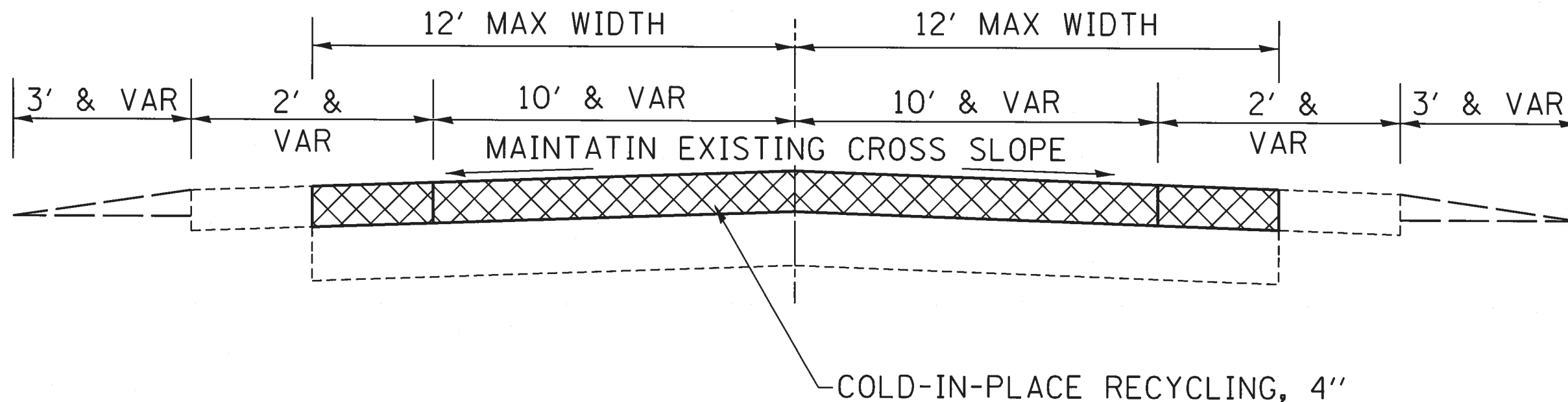
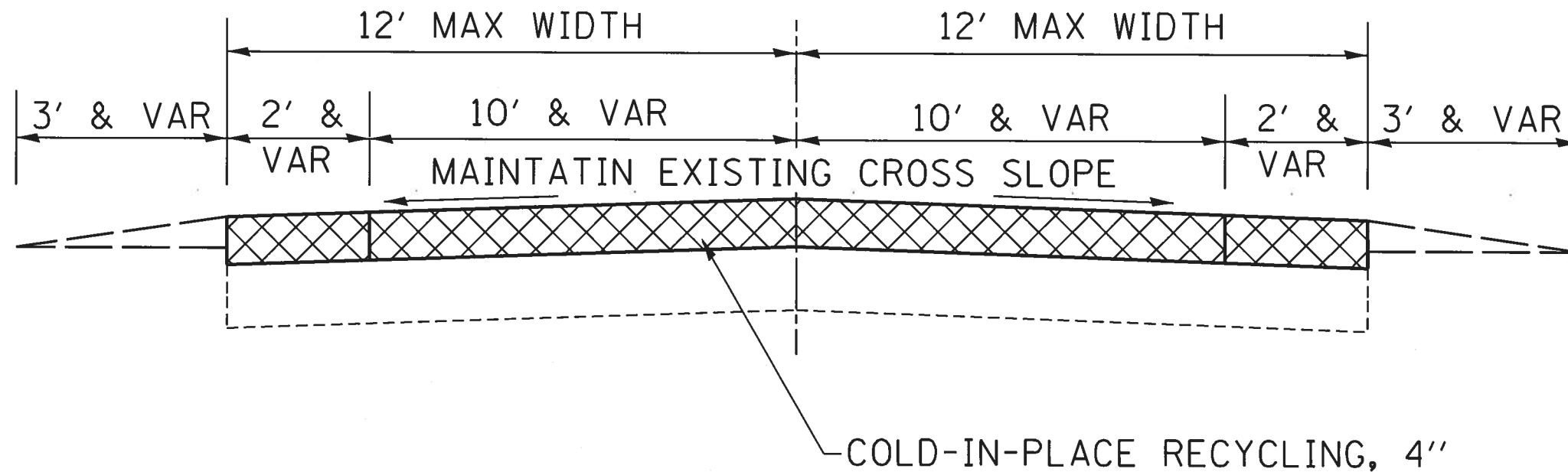
EXISTING HOT-MIX OVERLAY (RANGES 4.0 TO 8.9 INCHES AVERAGING 6.5 INCHES)  
EXISTING CONCRETE PAVEMENT

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				196	D2 RS 2020-5	WHITESIDE	12	5
				CONTRACT NO. 64P31				
PLOT DATE = Feb-25-2020 01:24:46 PM				FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# TYPICAL SECTION

☪ GARDEN PLAIN ROAD

STA. 6+15 - 288+95



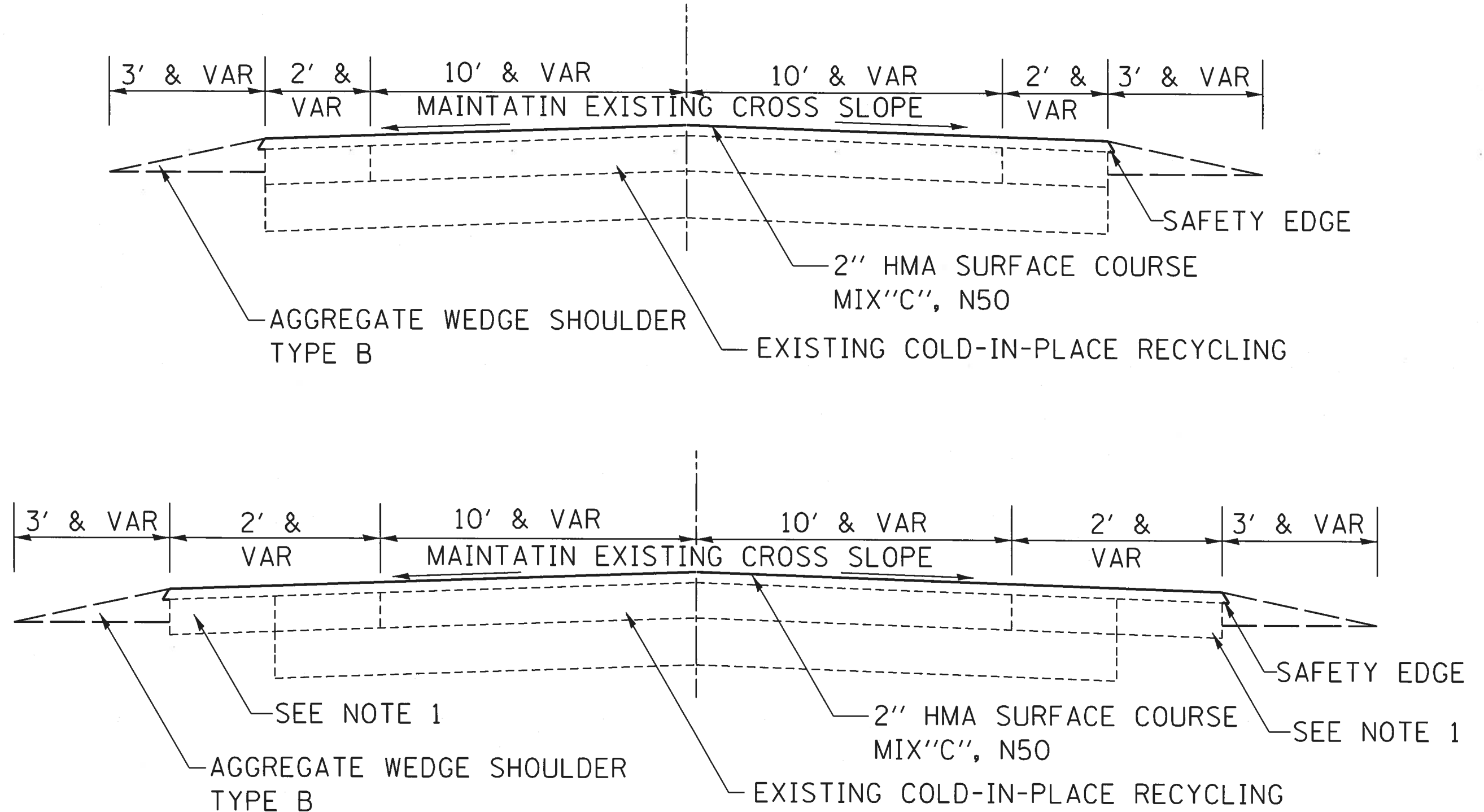
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PLOT DATE = Feb-25-2020 01:25:03 PM				CONTRACT NO. 64P31				
				FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTE 1:  
 THE ENTRANCE/TURNOUT AREA  
 THAT WAS NOT INCLUDED IN  
 CIR SHALL BE INCLUDED WITH  
 THE 2" RESURFACING

# TYPICAL SECTION

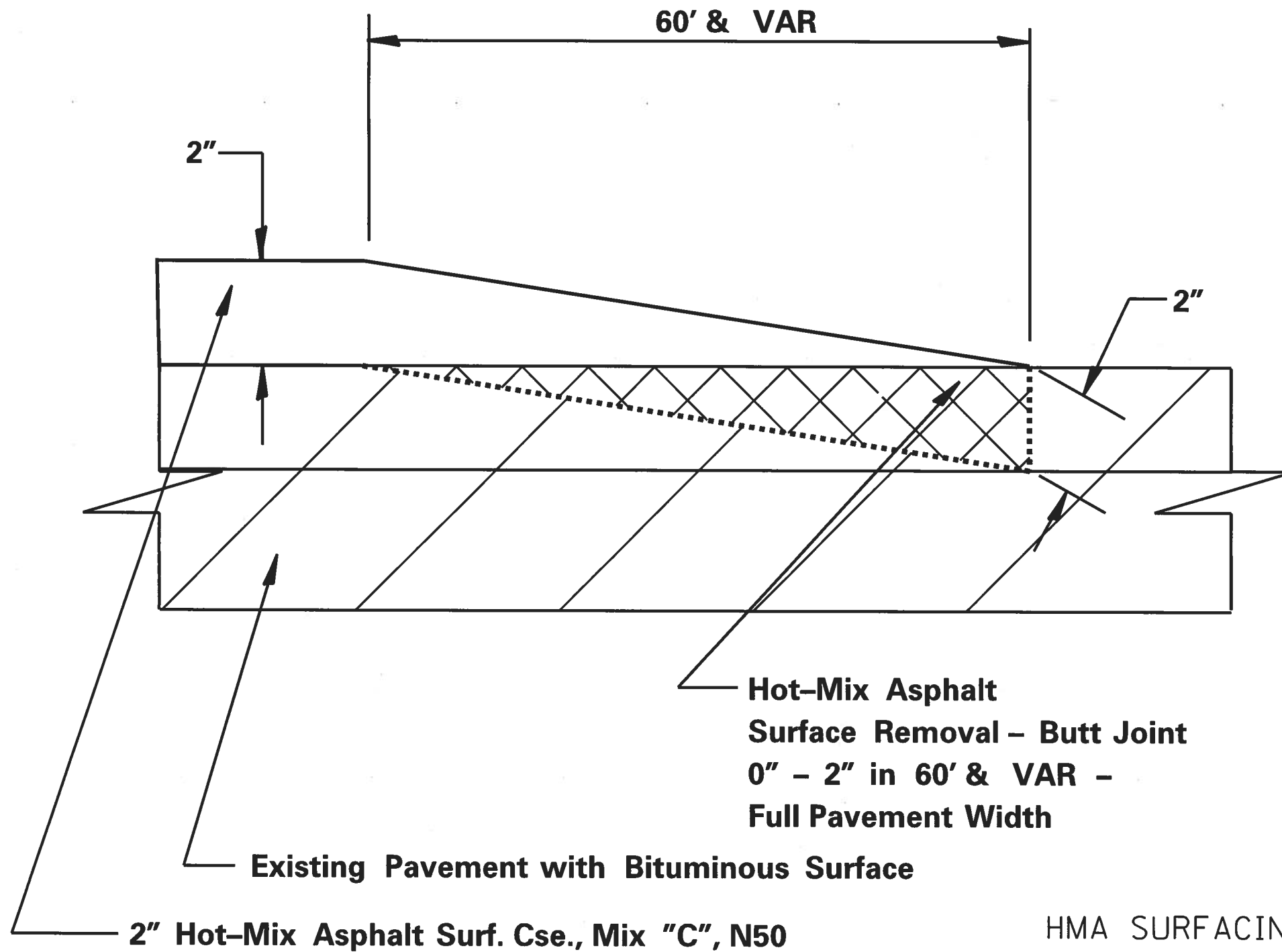
☉ GARDEN PLAIN ROAD

STA. 6+15 - 288+95



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				CONTRACT NO. 64P31				
				FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# TYPICAL SECTION HOT-MIX ASPHALT SURFACE REMOVAL – BUTT JOINT SEE SCHEDULE FOR LOCATIONS

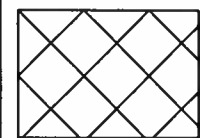
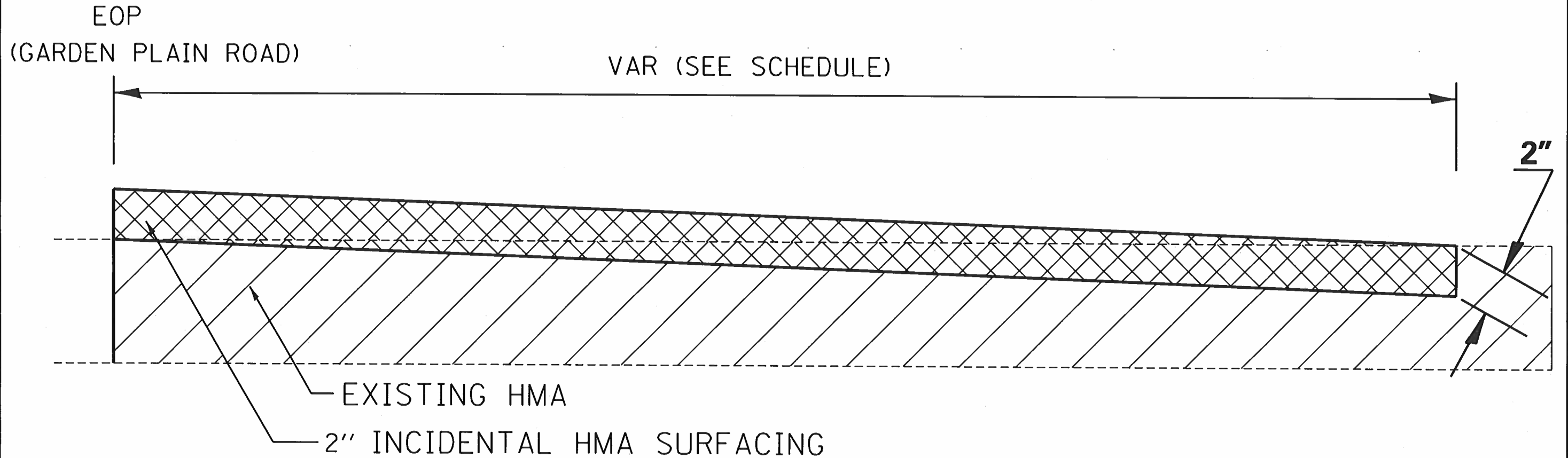


HMA SURFACING 112 LBS/ SQ YD/ IN

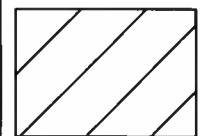
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	PLOT SCALE * 1/8" = 1' / in.	CHECKED -	REVISED -							
	PLOT DATE * Feb-25-2020 01:29:42 PM	DATE -	REVISED -							
					SCALE:	SHEET NO. OF SHEETS		STA.	TO STA.	
					(ILLINOIS) FED. AID PROJECT					



# TYPICAL SECTION ENTRANCES & SIDEROADS



INCIDENTAL HMA SURFACE

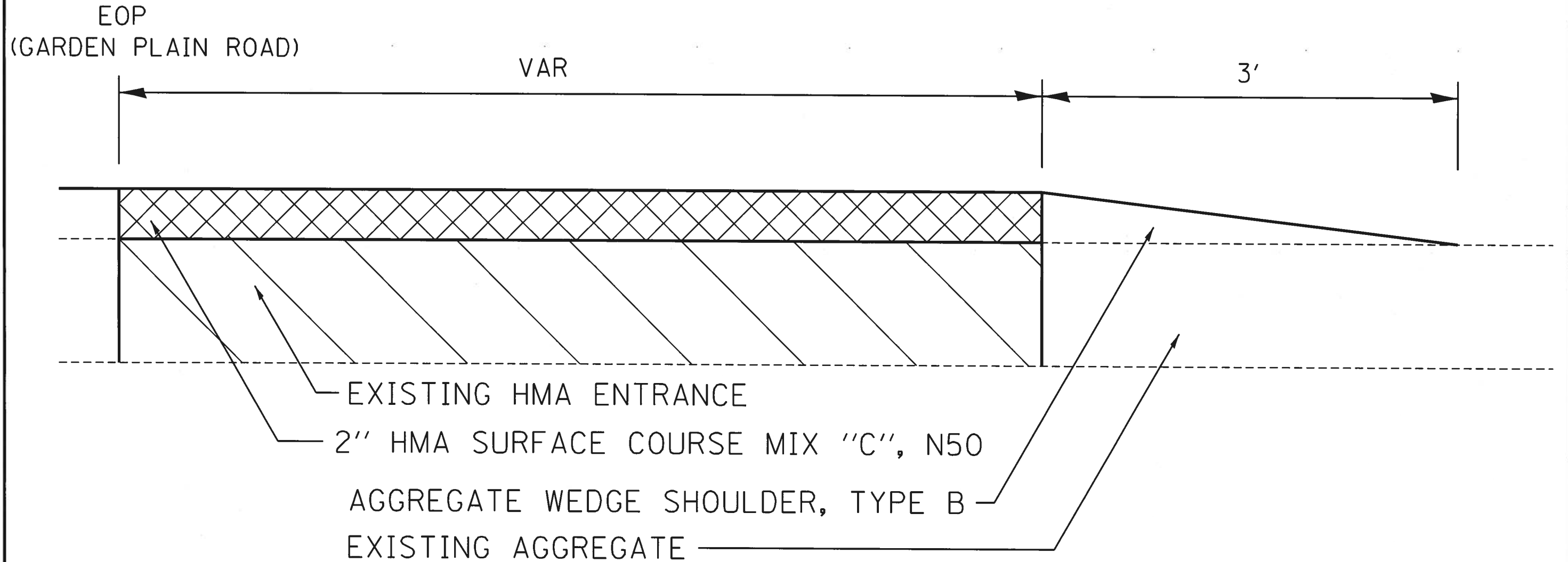


EXISTING

INCIDENTAL HMA SURFACING 112 LBS/ SQ YD/ IN

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	PLOT DATE = Feb-25-2020 01:26:18 PM	DATE -	REVISED -								[ILLINOIS] FED. AID PROJECT				

# TYPICAL SECTION ENTRANCES /MAILBOX TURNOUTS



2" HMA SURFACE COURSE MIX "C", N50



EXISTING

HMA SURFACING 112 LBS/ SQ YD/ IN

FILE NAME *	USER NAME * Nicklaus	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE * Feb-25-2020 01:26:00 PM	DATE -	REVISED -									CONTRACT NO. 64P31
[ILLINOIS] FED. AID PROJECT												

## SCHEDULE OF QUANTITIES

FAS 196 ( Garden Plain Road )  
SECTION D2 RS 2020-5  
Whiteside County  
CONTRACT #64P31  
SHEET 11 of 12

### 40600290 BITUMINOUS MATERIALS (TACK COAT)

<u>LOCATION</u>	<u>POUND</u>	<u>REMARKS</u>
STA. 6+15 - 288+95	35720	Includes Side Roads/Shoulder & Entrances
	<u>35720</u>	

### 406000982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

<u>LOCATION</u>	<u>SQ YD</u>	<u>REMARKS</u>
STA. 6+15 - 6+75	148	
ELSTON ROAD	81	LT
ELSTON ROAD	138	RT
SAND ROAD	58	LT
SAND ROAD	105	RT
PARKER ROAD	62	LT
YALE ROAD	103	LT
FROG POND ROAD	90	LT
FROG POND ROAD	81	RT
FENTON ROAD	249	RT
FENTON ROAD	117	LT
STA. 287+75 - 288+35	183	
	<u>1415</u>	

### 40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

<u>LOCATION</u>	<u>TON</u>	<u>REMARKS</u>
STA. 6+15 - 288+95	8993	Includes Shoulders & Safety Edge
	<u>8993</u>	

### 40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING

<u>LOCATION</u>	<u>TON</u>	<u>REMARKS</u>
STA. 40+83	5	PE LT 18'
ELSTON ROAD	14	LT 23'
ELSTON ROAD	24	RT 28'
SAND ROAD	11	LT 18'
SAND ROAD	19	RT 20'
PARKER ROAD	9	LT 25'
YALE ROAD	18	LT 23'
STA. 167+35	4	PE RT 18'
FROG POND ROAD	15	LT 23'
FROG POND ROAD	14	RT 20'
STA. 250+00	10	PE LT 27'
FENTON ROAD	40	RT 48'
FENTON ROAD	20	LT 27'
	<u>203</u>	

### 48102100 AGGREGATE WEDGE SHOULDERS, TYPE B

<u>LOCATION</u>	<u>TON</u>	<u>REMARKS</u>
STA. 6+15 - 288+95	4158	
	<u>4158</u>	

### 70300100 SHORT TERM PAVEMENT MARKING

(3 Applications)

<u>LOCATION</u>	<u>FOOT</u>	<u>REMARKS</u>
STA. 6+15 - 288+95	8484	
	<u>8484</u>	

**70300150 SHORT TERM PAVEMENT MARKING REMOVAL**

<u>LOCATION</u>	<u>SQ FT</u>	<u>REMARKS</u>
STA. 6+15 - 288+95	<u>942</u>	
	<b>942</b>	

**78001110 PAINT PAVEMENT MARKING - LINE 4 INCE**

(2 Applications)

<u>LOCATION</u>	<u>FOOT</u>	<u>REMARKS</u>
STA. 6+15 - 12+33	1536	Solid Right / Skip Left
STA. 12+33 - 23+46	4452	Double Yellow
STA. 23+46 - 30+85	1838	Solid Left / Skip Right
STA. 30+85 - 36+96	300	Skip Dash
STA. 36+96 - 46+24	2316	Solid Right / Skip Left
STA. 46+24 - 46+69	180	Double Yellow
STA. 46+69 - 56+86	2534	Solid Left / Skip Right
STA. 56+86 - 64+03	360	Skip Dash
STA. 64+03 - 72+71	2176	Solid Right / Skip Left
STA. 72+71 - 73+71	60	Skip Dash
STA. 73+71 - 87+92	3562	Solid Left / Skip Right
STA. 87+92 - 90+48	1024	Double Yellow
STA. 90+48 - 102+66	3036	Solid Right / Skip Left
STA. 102+66 - 110+92	2072	Solid Left / Skip Right
STA. 110+92 - 148+84	1900	Skip Dash
STA. 148+84 - 162+60	3432	Solid Right / Skip Left
STA. 162+60 - 171+05	2110	Solid Left / Skip Right
STA. 171+05 - 178+55	380	Skip Dash
STA. 178+55 - 189+65	2780	Solid Right / Skip Left
STA. 189+65 - 261+18	28796	Double Yellow
STA. 261+64 - 277+18	3888	Solid Left / Skip Right
STA. 277+48 - 288+95	580	Skip Dash
STA. 6+15 - 288+95	<u>113120</u>	White Edge Line
	<b>182432</b>	

**78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL**

<u>LOCATION</u>	<u>EACH</u>	<u>REMARKS</u>
STA. 6+15 - 288+95	<u>74</u>	
	<b>74</b>	

**X4200001 CIR - FDR EMULSIFIED ASPHALT**

<u>LOCATION</u>	<u>GALLON</u>	<u>REMARKS</u>
STA. 6+15 - 288+95	<u>136355</u>	
	<b>136355</b>	

**X4200002 COLD IN-PLACE RECYCLING 4.0 INCH**

<u>LOCATION</u>	<u>SQ YD</u>	<u>REMARKS</u>
STA. 6+15 - 288+95	<u>77917</u>	
	<b>77917</b>	