

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	D2 RS 2019-1	OGLE	18	1

D-92-067-18



LOCATION OF SECTION INDICATED THUS: - ■ -



01-18-2019 LETTING ITEM 047

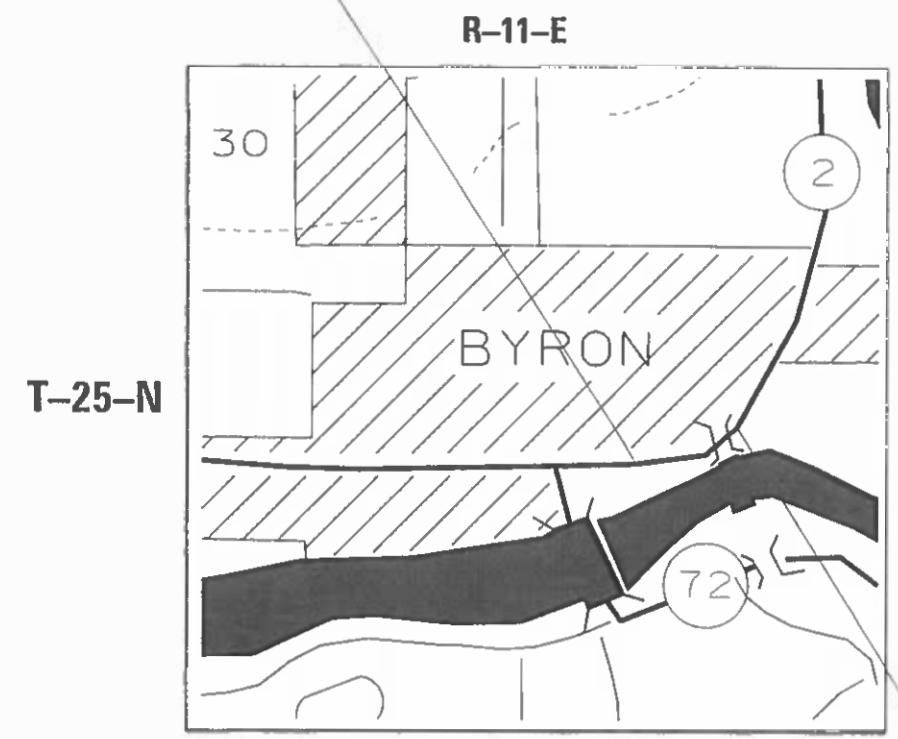
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

**PROPOSED
 HIGHWAY PLANS**

FAP ROUTE 742 (IL 2)
 SECTION D2 RS 2019-1
 OGLE COUNTY
 C-92-012-19

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

SECTION BEGINS
 STA. 1135 + 22



SECTION ENDS
 STA. 1150 + 29

BYRON TOWNSHIP,
 SECTIONS 32

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

SQUAD LEADER: LANCE NICKLAUS 815-284-5407
 PROJECT ENGINEER: SCOTT KULLERSTRAND

CONTRACT 64N21

GROSS LENGTH = 1507 LIN. FT. (IL 2) = 0.29 MILES
 NET LENGTH = 1507 LIN. FT. (IL 2) = 0.29 MILES

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED 10-10 2018
[Signature]
 REGION ENGINEER

Dec 7 2010
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7 2018
[Signature]
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 3

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

INDEX

1	Cover Sheet
2	Index of Sheets / State Standards
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13	Subgrade Replacement (D.S. 97.4)
14-16	Typical Pavement Markings (D.S. 41.1)

STATE STANDARDS

442201-03	CLASS C AND D PATCHES
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15'(4.5m) TO 24"(600mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATION
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATION DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
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
781001-04	TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS

SUMMARY OF QUANTITIES

FAP 742 (IL 2)
SECTION D2 RS 2019-1
OGLE COUNTY
CONTRACT # 64N21
SHEET 3 OF 16

100% State
0005

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
30300106	AGGREGATE SUBGRADE IMPROVEMENT 6"	SQ YD	287
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2,780
40600525	LEVELING BINDER (HAND METHOD), N50	TON	5
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	692
44000157	HOT-MIX ASPHALT SURFACE REMOVAL 2"	SQ YD	6178
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	17
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	270
60255500	MANHOLES TO BE ADJUSTED	EACH	4
60260100	INLETS TO BE ADJUSTED	EACH	6
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	6

* Specialty Items

SUMMARY OF QUANTITIES

FAP 742 (IL 2)
SECTION D2 RS 2019-1
OGLE COUNTY
CONTRACT # 64N21
SHEET 4 OF 16

100% State
0005

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
67100100	MOBILIZATION	L SUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	300
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	50
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	6406
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	40
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	38
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	38
Z0028415	GEOTECHNICAL REINFORCEMENT	SQ YD	287

* Specialty Items

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.

All "Aggregate Subgrade Improvement" (Section 303), shall be completed in accordance with Articles 311.04, 311.05, 311.05(a), 311.06 and 311.07. All aggregate subgrade thicknesses equal to or less than 12 inches shall be constructed of aggregate of CA02 gradation. All aggregate subgrade thicknesses greater than 12 inches shall be constructed of CS02.

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:	0		
Mixture Weight:	112		
Quality Management Program:	QC/QA		
Sublot Size:			
Number of Roller Passes ¹⁾ :			

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.

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. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

(Type name & phone number of JULIE companies from attached utility form.)

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.

Due to the condition of the underlying pavement, no traffic shall be allowed on the milled surface. Any surface removed shall be replaced the same day.

SCHEDULE OF QUANTITIES

FAP 742 (IL 2)
SECTION D2 RS 2019-1
OGLE COUNTY
CONTRACT #64N21
SHEET 6 of 16

30300106 AGGREGATE SUBGRADE IMPROVEMENT 6"

<u>LOCATION</u>	<u>SQ YD</u>	<u>REMARKS</u>
STA. 1137+56 - 1138+06	56	LT
STA. 1137+69 - 1139+29	178	RT
STA. 1146+97 - 1147+62	36	RT
STA. 1146+43 - 1146+68	17	LT
	<u>287</u>	

40600290 BITUMINOUS MATERIALS (TACK COAT)

<u>LOCATION</u>	<u>POUND</u>	<u>REMARKS</u>
STA. 1135+22 - 1150+29	2780	LT&RT
	<u>2780</u>	

40600525 LEVELING BINDER (HAND METHOD), N50

<u>LOCATION</u>	<u>TON</u>	<u>REMARKS</u>
STA. 1135+22 - 1150+29	5	AS DIRECTED BY RE
	<u>5</u>	

40603335 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50

<u>LOCATION</u>	<u>TON</u>	<u>REMARKS</u>
STA. 1135+22 - 1150+29	692	LT&RT
	<u>692</u>	

44000157 HOT-MIX ASPHALT SURFACE REMOVAL 2"

<u>LOCATION</u>	<u>SQ YD</u>	<u>REMARKS</u>
STA. 1135+22 - 1150+29	6178	LT&RT
	<u>6178</u>	

44201794 CLASS D PATCHES, TYPE III, 12 INCH

<u>LOCATION</u>	<u>SQ YD</u>	<u>REMARKS</u>
STA. 1146+43 - 1146+68	17	LT
	<u>17</u>	

44201796 CLASS D PATCHES, TYPE IV, 12 INCH

<u>LOCATION</u>	<u>SQ YD</u>	<u>REMARKS</u>
STA. 1137+56 - 1138+06	56	LT
STA. 1137+69 - 1139+29	178	RT
STA. 1146+97 - 1147+62	36	RT
	<u>270</u>	

60255500 MANHOLES TO BE ADJUSTED

<u>LOCATION</u>	<u>EACH</u>	<u>REMARKS</u>
STA. 1135+22 - 1150+29	4	LT&RT
	<u>4</u>	

60260100 INLETS TO BE ADJUSTED

<u>LOCATION</u>	<u>EACH</u>	<u>REMARKS</u>
STA. 1135+22 - 1150+29	<u>6</u>	LT&RT
	6	

60265700 VALVE VAULTS TO BE ADJUSTED

<u>LOCATION</u>	<u>EACH</u>	<u>REMARKS</u>
STA. 1135+22 - 1150+29	<u>6</u>	LT&RT
	6	

70300100 SHORT TERM PAVEMENT MARKING

<u>LOCATION</u>	<u>FOOT</u>	<u>REMARKS</u>
STA. 1135+22 - 1150+29	<u>300</u>	LT&RT
	300	

70300150 SHORT TERM PAVEMENT MARKING REMOVAL

<u>LOCATION</u>	<u>SQ FT</u>	<u>REMARKS</u>
STA. 1135+22 - 1150+29	<u>50</u>	LT&RT
	50	

78001110 PAINT PAVEMENT MARKING - LINE 4"

TWO APPLICATIONS

<u>LOCATION</u>	<u>FOOT</u>	<u>REMARKS</u>
STA. 1135+22 - 1136+18	780	DBL YELLOW MED.
STA. 1136+18 - 1139+24	160	YELLOW SKIP
STA. 1139+24 - 1145+38	1538	SOLID RT/SKIP LT YELLOW
STA. 1145+38 - 1150+29	1964	DBL YELLOW
STA. 1145+38 - 1150+29	<u>1964</u>	WHITE EDGE
	6406	

78001150 PAINT PAVEMENT MARKING - LINE 12"

<u>LOCATION</u>	<u>FOOT</u>	<u>REMARKS</u>
STA. 1135+22 - 1136+18	<u>40</u>	YELLOW MED DIA
	40	

78100100 RAISED REFLECTIVE PAVEMENT MARKER

<u>LOCATION</u>	<u>EACH</u>	<u>REMARKS</u>
STA. 1135+22 - 1150+29	<u>38</u>	2WAY AMBER
	38	

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

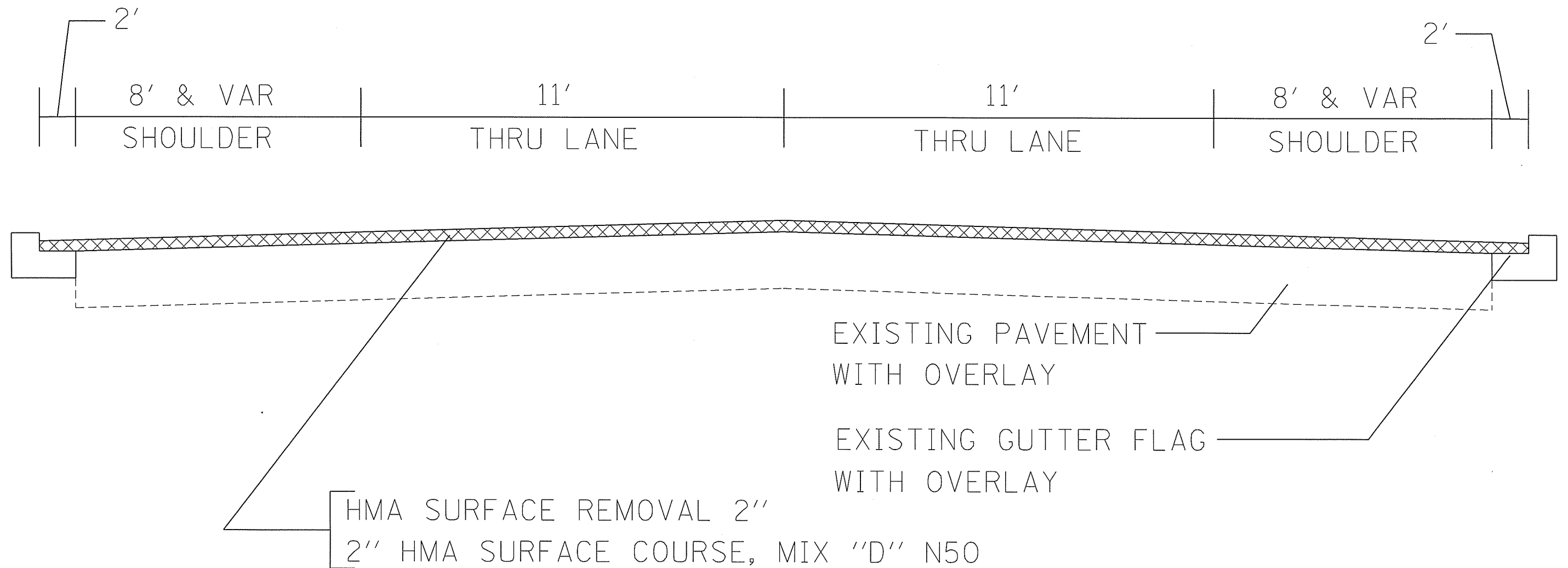
<u>LOCATION</u>	<u>EACH</u>	<u>REMARKS</u>
STA. 1135+22 - 1150+29	<u>38</u>	
	38	

Z0028415 GEOTECHNICAL REINFORCEMENT

<u>LOCATION</u>	<u>SQ YD</u>	<u>REMARKS</u>
STA. 1137+56 - 1138+06	56	LT
STA. 1137+69 - 1139+29	178	RT
STA. 1146+97 - 1147+62	36	RT
STA. 1146+43 - 1146+68	<u>17</u>	LT
	287	

TYPICAL SECTION

STA 1135+22 - STA 1146+20



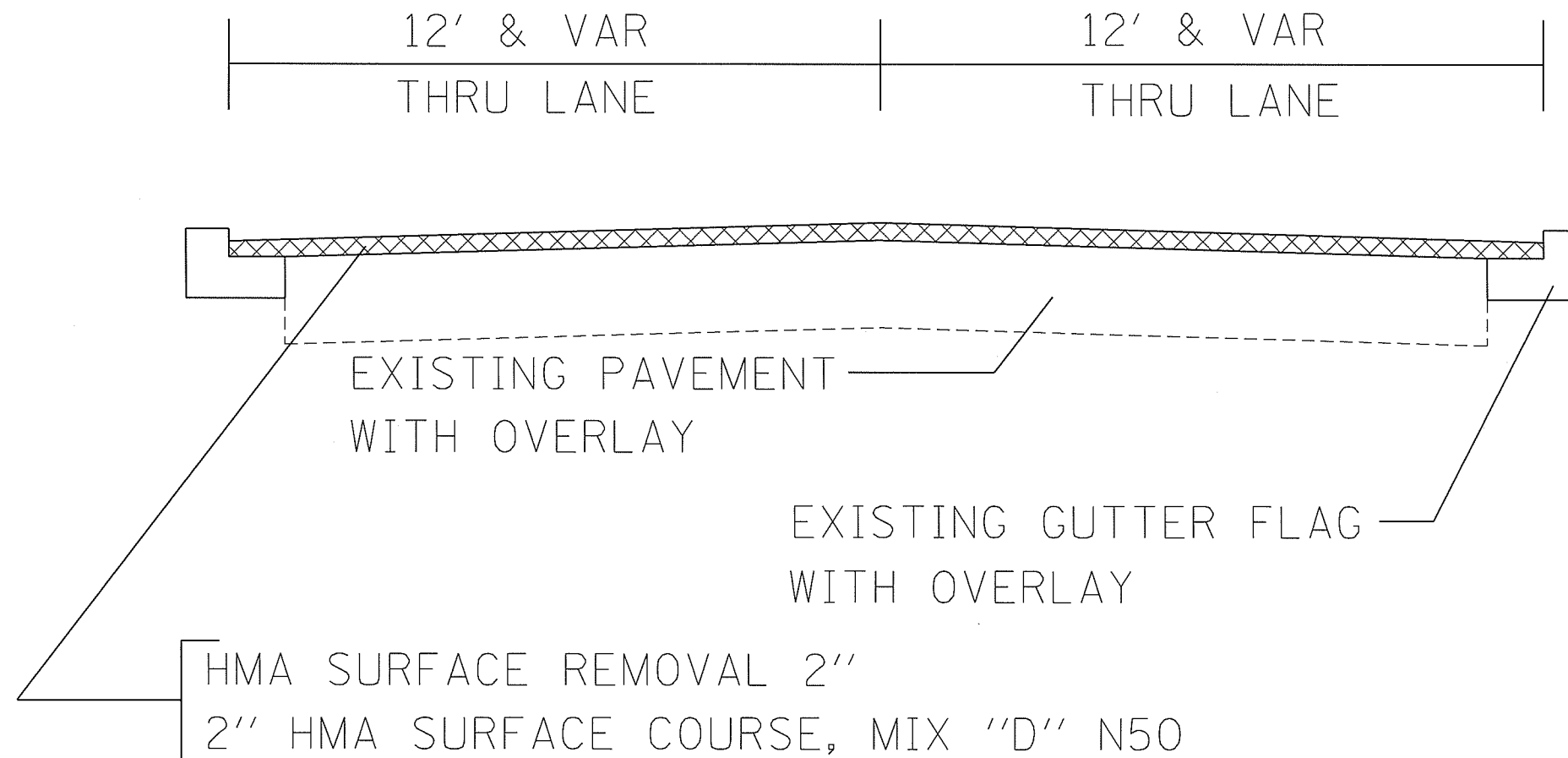
HMA SURFACE COURSE 112LBS/SQ YD/INCH

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D:\PL\Nicklaus\FY 19 jobs\David AVL 2 B...	on\CADD\d205408.dgn	DRAWN -	REVISED -			742	D2 RS 2019-1	OGLE	16	9	
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TYPICAL SECTION

STA 1146+20 - STA 1147+25 RT

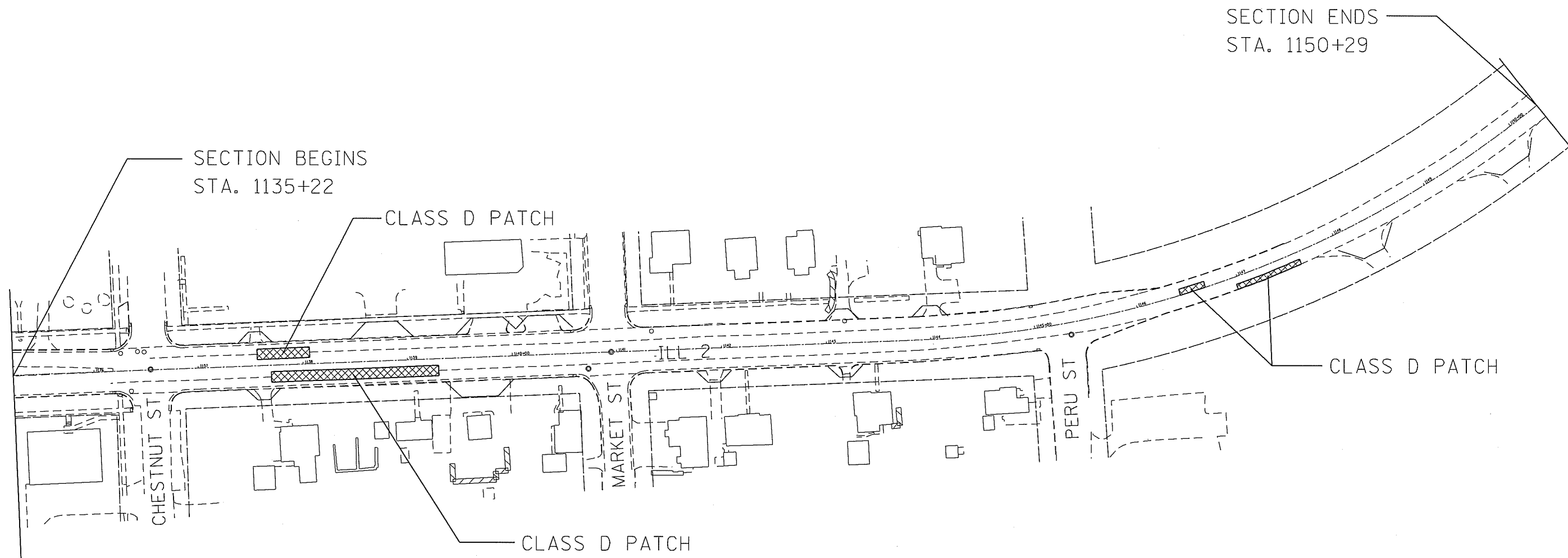
STA 1146+20 - STA 1147+53 LT



HMA SURFACE COURSE 112LBS/SQ YD/INCH

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PLAN SHEET



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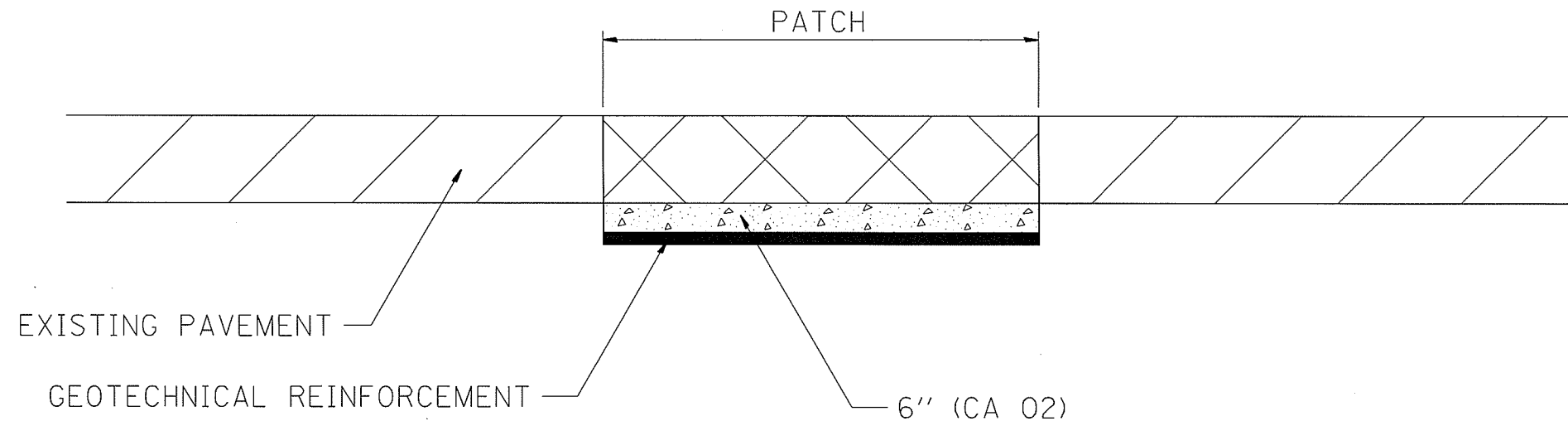
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	D2 RS 2019-1	OGLE	16	12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64N21	

SUBGRADE REPLACEMENT



NOTES:

THE CA 02 SHALL BE COMPACTED IN A MANNER APPROVED BY THE ENGINEER. IF THE MOISTURE CONTENT OF THE MATERIAL IS SUCH THAT COMPACTION SATISFACTORY TO THE ENGINEER CANNOT BE OBTAINED, SUFFICIENT WATER SHALL BE ADDED SO THAT SATISFACTORY COMPACTION CAN BE OBTAINED.

THE CA 02 SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU YD FOR AGGREGATE SUBGRADE IMPROVEMENT WHICH SHALL ALSO INCLUDE ALL EARTH EXCAVATION.

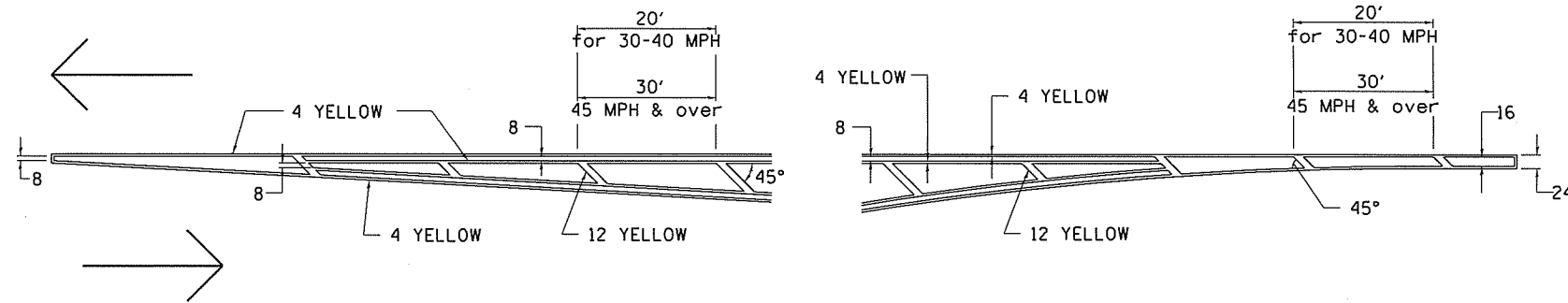
THE GEOTECHNICAL REINFORCEMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ YD FOR GEOTECHNICAL REINFORCEMENT.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

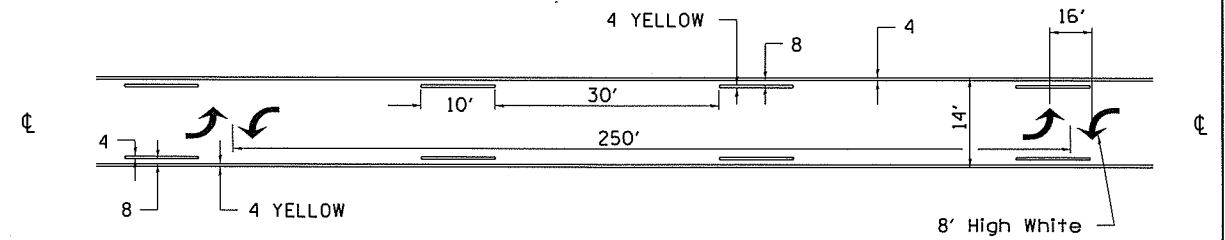
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REVISED - ____				CONTRACT NO. 64N21				
REVISED - ____				SCALE: 54.7062' / 1" SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT	

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

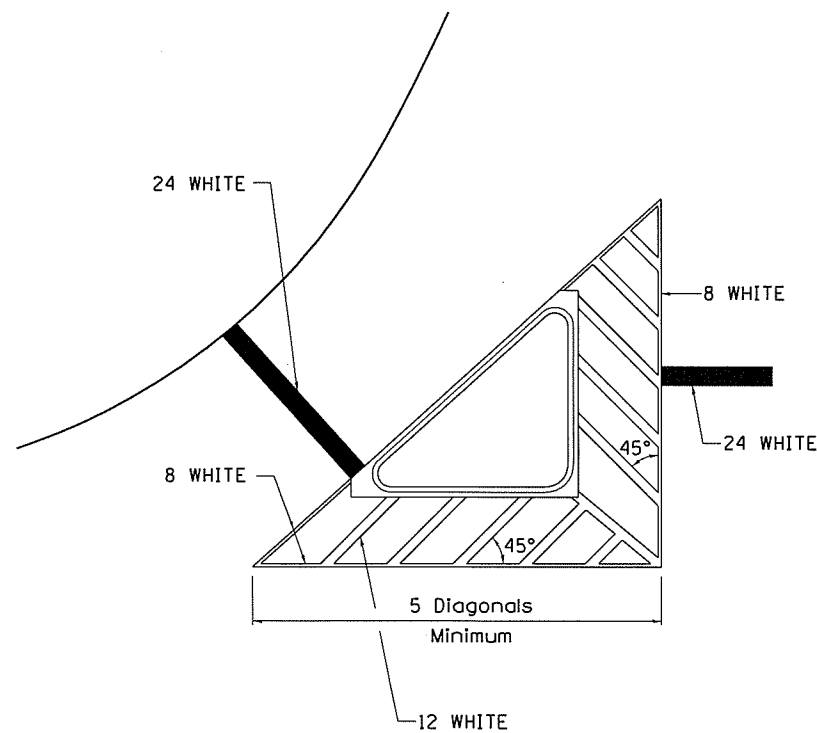


MEDIAN PAVEMENT MARKING



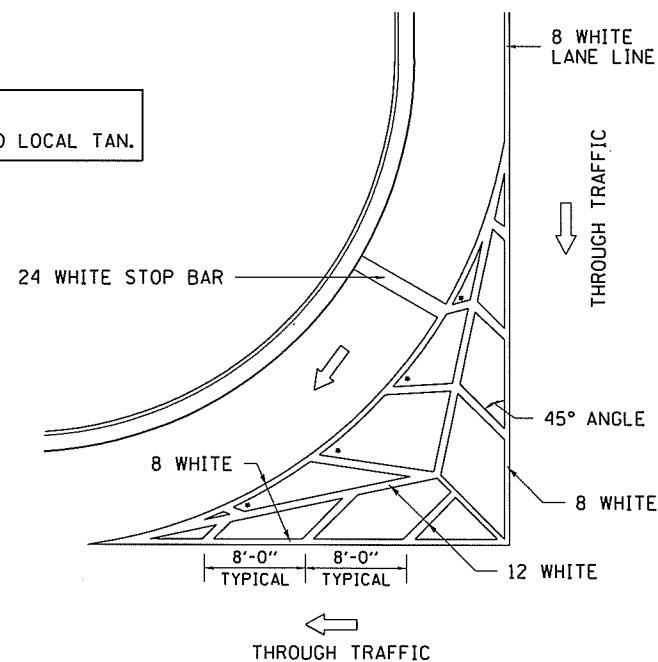
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



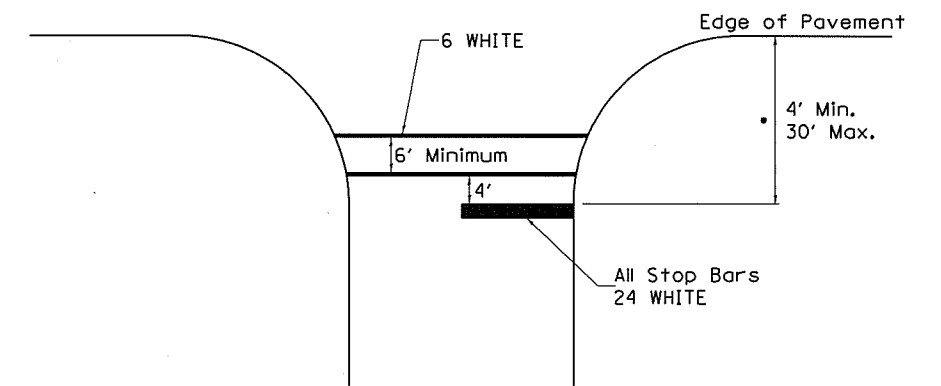
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations

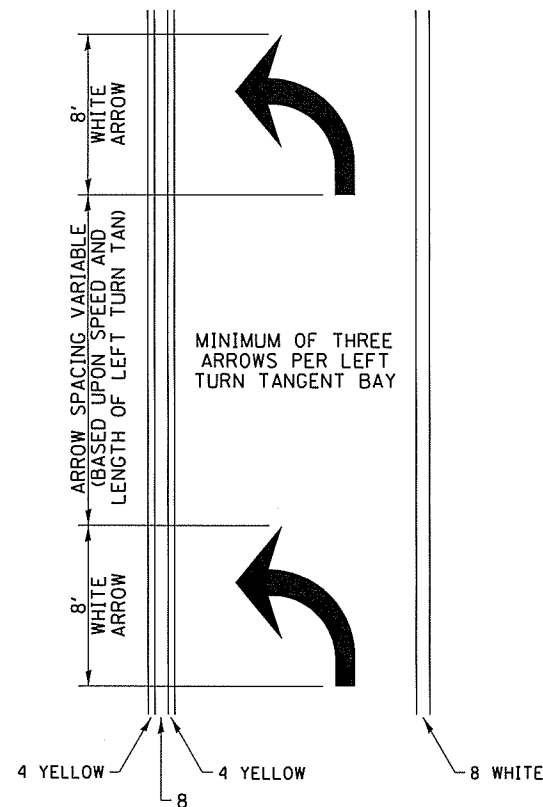


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = nicklaus	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
0:\NPL\Nicklaus\FY 19_jobs\David A\IL 2 8	0:\NPL\CADD\206408.dgn	DRAWN -	REVISED - 3-05-12		742	D2 RS 2019-1	OGLE	16	14			
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	PLOT DATE = Oct-09-2018 02:14:04 PM	DATE -	REVISED -									

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

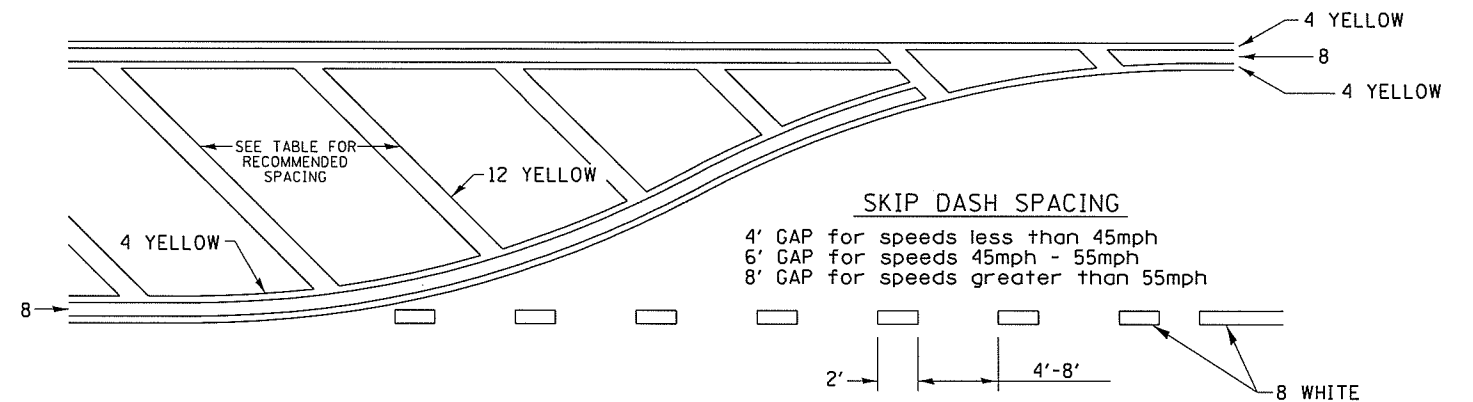


MINIMUM OF THREE ARROWS PER LEFT TURN TANGENT BAY

- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

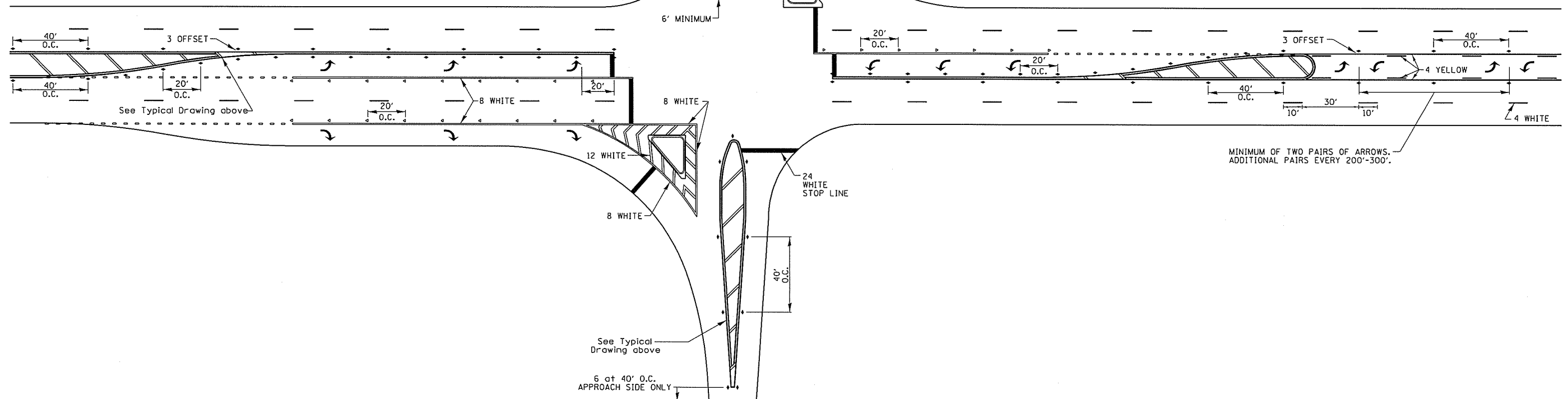
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

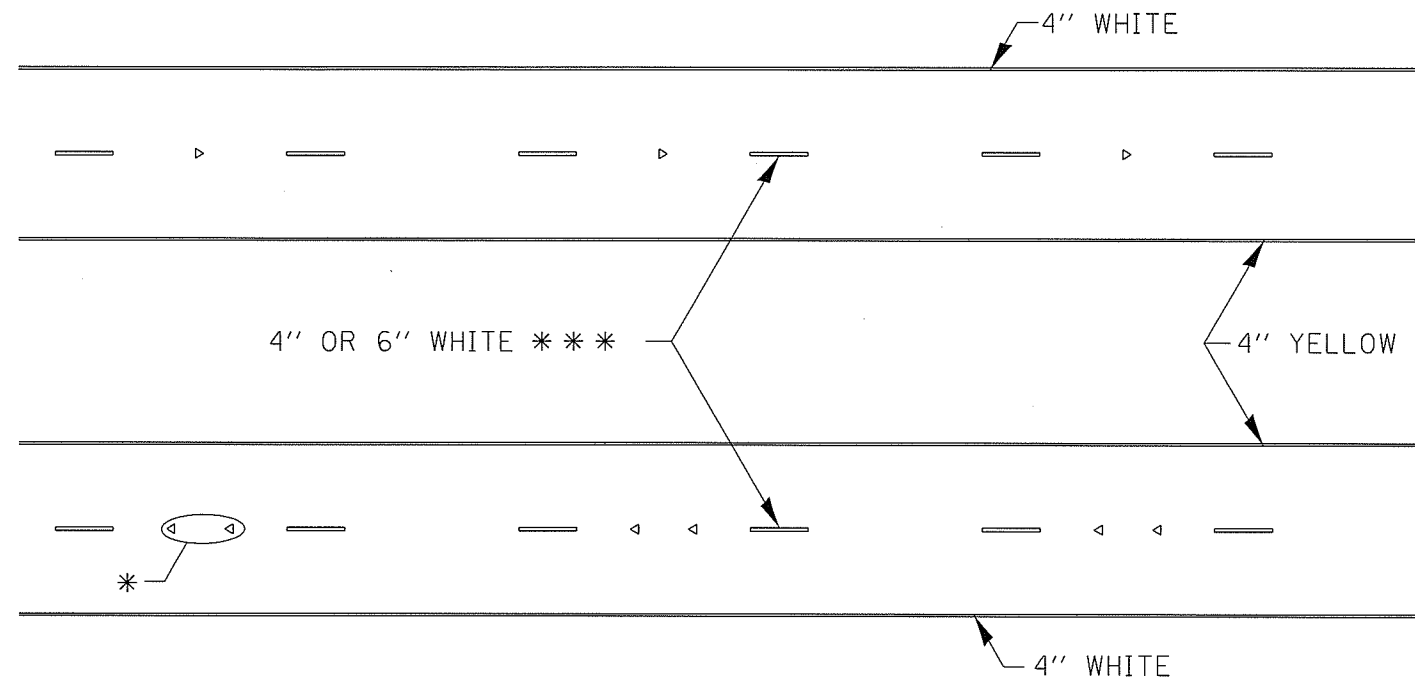
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



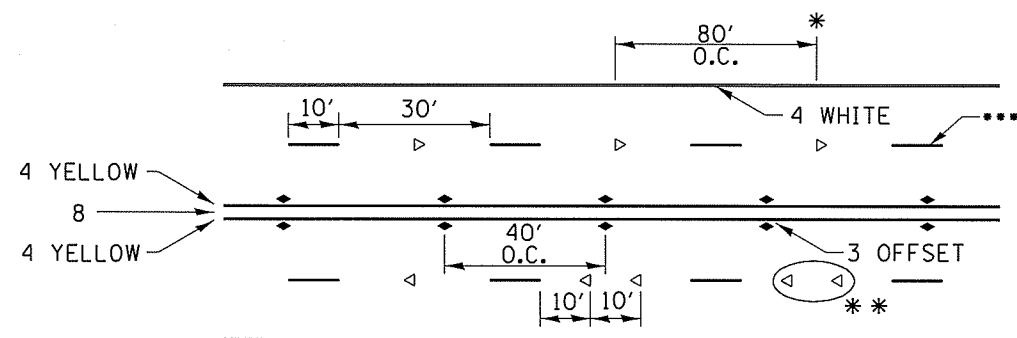
FILE NAME : G:\PL\Nicklaus\FY 19 jobs\David A\IL 2 8	USER NAME : nicklaus	DESIGNED -	REVISOR - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A.P. RTE. 742	SECTION D2 RS 2019-1	COUNTY OGLE	TOTAL SHEETS 16	SHEET NO. 15	
		DRAWN -	REVISOR - 3-05-12		SCALE: _____	SHEET NO. ___ OF ___ SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 64N21				
		CHECKED -	REVISOR -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							
		DATE -	REVISOR -		TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3 41.1							

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT > 20,000.

MULTI-LANE / DIVIDED

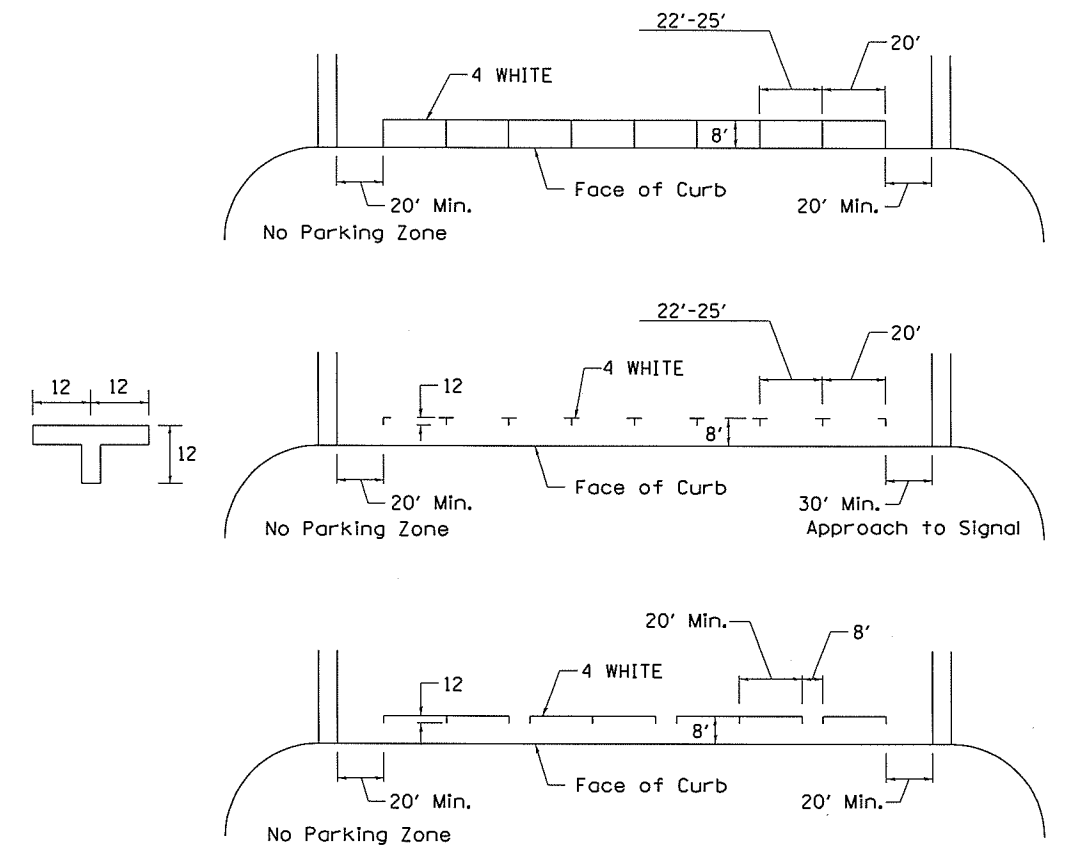


- REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.
- USE DOUBLE MARKERS WHEN ADT ≥ 20,000
- CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

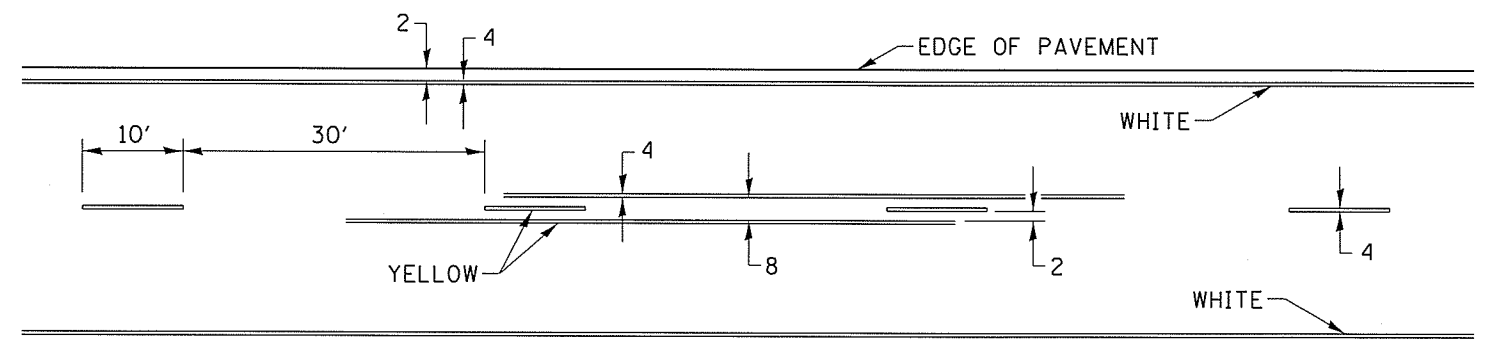
MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS
DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



FILE NAME =	USER NAME = nicklaus	DESIGNED -	REVISED - 6-27-14
D:\NPL\Nicklaus\FY 19 jobs\David A\IL 2	Drawn\CA00\d206408.dgn	DRAWN -	REVISED - 8-27-13
	PLOT SCALE = 102.9963 / in.	CHECKED -	REVISED - 11-28-12
	PLOT DATE = Oct-09-2018 02:14:39 PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: _____	SHEET NO. ___ OF ___ SHEETS	STA. _____ TO STA. _____	F.A.P. RTE. 742	SECTION D2 RS 2019-1	COUNTY OGLE	TOTAL SHEETS 16	SHEET NO. 16
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CONTRACT NO. 64N21
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT