

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	145BR-1	DOUGLAS	39	10
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

**CONTRACT NO. 70393**

**EARTHWORK**

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
<b>EARTH EXCAVATION PRELIMINARY PHASE</b>				
STA 146+14.13 TO STA 150+25.67	60	45	45	0
STA 150+74.33 TO STA 154+89.12	60	45	30	15
<b>STAGE 2</b>				
STA 148+65.00 TO STA 150+25.67	0	0	10	-10
STA 150+74.33 TO STA 152+74.00	0	0	15	-15
<b>TOTAL</b>	<b>120</b>	<b>90</b>	<b>100</b>	<b>-10</b>

SHRINKAGE FACTOR = 25%  
EXCAVATION FOR BASE COURSE (OPTION) IS INCLUDED IN THE QUANTITY FOR EARTH EXCAVATION

**SEEDING**

LOCATION	SEEDING CLASS 2	FERTILIZER NUTRIENTS			MULCH METHOD 2
		ACRE	POUNDS	POUNDS	
LT STA 148+63 TO STA 152+79	0.15	13.5	13.5	13.5	0.15
RT STA 146+14 TO STA 154+89	0.25	22.5	22.5	22.5	0.25
<b>TOTAL</b>	<b>0.40</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>0.4</b>

**PERIMETER EROSION BARRIER**

LOCATION	FOOT
LT STA 148+63 TO STA 150+25	162
LT STA 150+46 TO STA 152+79	233
RT STA 146+14 TO STA 148+00	186
RT STA 148+38 TO STA 150+57	219
RT STA 150+85 TO STA 154+89	404
<b>TOTAL</b>	<b>1,204</b>

**BASE COURSE (OPTION)**

LOCATION	WIDTH	SQ YD
RT STA 146+14.13 TO STA 147+75.24	8' TO 10'	161
RT STA 147+75.24 TO STA 147+90.98	7' TO 2'	8
RT STA 147+90.98 TO STA 150+23.17	2'	52
RT STA 150+90.08 TO STA 152+92.45	2'	45
RT STA 152+92.45 TO STA 153+29.12	10	41
RT STA 153+29.12 TO STA 154+89.12	10' TO 8'	160
<b>TOTAL</b>		<b>467</b>

**HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH**

LOCATION	WIDTH	SQ YD
STA 149+30.00 TO STA 149+96.19	40	294
STA 151+03.81 TO STA 151+70.00	40	294
<b>TOTAL</b>		<b>588</b>

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH INCLUDES CONSTRUCTION OF BUTT JOINTS (SEE SPECIAL PROVISIONS)

**TEMPORARY RAMP**

LOCATION	WIDTH	SQ YD
<b>STAGE 1</b>		
STA 149+91.19 TO STA 149+96.19	24	13.5
STA 151+03.81 TO STA 151+08.81	24	13.5
<b>STAGE 2</b>		
STA 149+91.19 TO STA 149+96.19	16	9.0
STA 151+03.81 TO STA 151+08.81	16	9.0

**FINAL PHASE**

STA 149+30.00 TO STA 149+35.00	40	22.5
STA 149+91.19 TO STA 149+96.19	40	22.5
STA 151+03.81 TO STA 151+08.81	40	22.5
STA 151+65.00 TO STA 151+70.00	40	22.5
<b>TOTAL</b>		<b>135</b>

**BITUMINOUS MATERIALS (PRIME COAT)**

LOCATION	WIDTH	GALLON
STA 149+30.00 TO STA 149+96.19	40	30
STA 151+03.81 TO STA 151+70.00	40	30
<b>TOTAL</b>		<b>60</b>

**AGGREGATE (PRIME COAT)**

LOCATION	WIDTH	TON
STA 149+30.00 TO STA 149+96.19	40	1
STA 151+03.81 TO STA 151+70.00	40	1
<b>TOTAL</b>		<b>2</b>

**HOT-MIX ASPHALT SURFACE COURSE MIX "C" N50**

LOCATION	WIDTH	TON
STA 149+30.00 TO STA 149+96.19	24	15
STA 151+03.81 TO STA 151+70.00	24	15
<b>TOTAL</b>		<b>30</b>

**BRIDGE APPROACH PAVEMENT**

LOCATION	WIDTH	SQ YD
<b>STAGE 1</b>		
STA 149+96.19 TO STA 150+26.19	24.25	81
STA 150+73.81 TO STA 151+03.81	24.25	81
<b>STAGE 2</b>		
STA 149+96.19 TO STA 150+26.19	16.25	54
STA 150+73.81 TO STA 151+03.81	16.25	54
<b>TOTAL</b>		<b>270</b>

**PAVEMENT GROOVING**

LOCATION	WIDTH	SQ YD
STA 149+96.19 TO STA 150+26.19	38	127
STA 150+73.81 TO STA 151+03.81	38	127
<b>TOTAL</b>		<b>254</b>

**PROTECTIVE COAT**

LOCATION	WIDTH	SQ YD
STA 149+96.19 TO STA 150+26.19	40.5	135
STA 150+73.81 TO STA 151+03.81	40.5	135
<b>TOTAL</b>		<b>270</b>

**BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)**

LOCATION	WIDTH	SQ YD
<b>STAGE 1</b>		
STA 149+90.19 TO STA 149+96.19	24	16
STA 151+03.81 TO STA 151+09.81	24	16
<b>STAGE 2</b>		
STA 149+90.19 TO STA 149+96.19	16	11
STA 151+03.81 TO STA 151+09.81	16	11
<b>TOTAL</b>		<b>54</b>

**HOT-MIX ASPHALT SHOULDERS**

LOCATION	WIDTH	TON
LT STA 149+30.00 TO STA 149+96.19	8	5
LT STA 151+03.81 TO STA 151+70.00	8	5
RT STA 149+30.00 TO STA 149+96.19	8	5
RT STA 151+03.81 TO STA 151+70.00	8	5
<b>TOTAL</b>		<b>20</b>

**GUARDRAIL REMOVAL**

LOCATION	FOOT
<b>STAGE 1</b>	
LT STA 148+46 TO STA 150+36	190
LT STA 150+78 TO STA 152+17	139
<b>STAGE 2</b>	
RT STA 148+97 TO STA 150+36	139
RT STA 150+78 TO STA 152+68	190
<b>TOTAL</b>	<b>658</b>

**SHORT-TERM PAVEMENT MARKING**

LOCATION	APPLICATIONS	FOOT
<b>FINAL PHASE</b>		
<b>CENTERLINE</b>		
STA 146+14.13 TO STA 154+89.12	1	88
STA 149+30.00 TO STA 149+96.19	3	24
STA 151+03.81 TO STA 151+70.00	3	24

**SHOULDER**

LT STA 148+27.24 TO STA 152+78.98	1	20
RT STA 146+14.13 TO STA 154+89.12	1	36
LT STA 149+30.00 TO STA 149+90.24	3	12
LT STA 150+98.90 TO STA 151+70.00	3	12
RT STA 149+30.00 TO STA 150+01.10	3	12
RT STA 151+09.75 TO STA 151+70.00	3	12
<b>TOTAL</b>		<b>240</b>

**WORK ZONE PAVEMENT MARKING REMOVAL**

LOCATION	SQ FT
<b>FINAL PHASE</b>	
<b>CENTERLINE</b>	
STA 146+14.13 TO STA 154+89.12	30

**SHOULDER**

LT STA 148+27.24 TO STA 152+78.98	7
RT STA 146+14.13 TO STA 154+89.12	12
<b>TOTAL</b>	<b>49</b>

**PAVED SHOULDER REMOVAL**

LOCATION	TYPE	WIDTH	SQ YD
<b>PRESTAGE</b>			
RT STA 146+14.13 TO STA 147+75.24	HMA	3	54
RT STA 152+92.58 TO STA 154+89.12	HMA	3	66

**STAGE 1**

LT STA 149+84.31 TO STA 150+23.44	HMA	8	34
LT STA 150+23.42 TO STA 150+36.00	CONC	10	14
LT STA 150+78.00 TO STA 150+90.08	CONC	10	14
LT STA 150+90.08 TO STA 151+07.11	HMA	8	14

**STAGE 2**

RT STA 149+92.89 TO STA 150+23.17	HMA	8	32
RT STA 150+23.17 TO STA 150+36.00	CONC	10	14
RT STA 150+78.00 TO STA 150+90.08	CONC	10	14
RT STA 150+90.08 TO STA 151+16.22	HMA	8	28
<b>TOTAL</b>			<b>284</b>

PAVED SHOULDER REMOVAL INCLUDES REMOVING PORTIONS OF BASE COURSE (OPTION) CONSTRUCTED IN PRE-STAGE

**APPROACH SLAB REMOVAL**

LOCATION	WIDTH	SQ YD
<b>STAGE 1</b>		
LT STA 150+16.00 TO STA 150+36.00	18	40
LT STA 150+78.00 TO STA 150+98.00	18	40
<b>STAGE 2</b>		
RT STA 150+16.00 TO STA 150+36.00	6	14
RT STA 150+78.00 TO STA 150+98.00	6	14
<b>TOTAL</b>		<b>108</b>

**PAVEMENT REMOVAL**

LOCATION	WIDTH	SQ YD
<b>STAGE 1</b>		
LT STA 149+90.19 TO STA 150+16.00	18	55
LT STA 150+98.00 TO STA 151+09.81	18	23
<b>STAGE 2</b>		
RT STA 149+90.19 TO STA 150+16.00	6	16
RT STA 150+98.00 TO STA 151+09.81	6	10
<b>TOTAL</b>		<b>104</b>

**TEMPORARY CONCRETE BARRIER**

LOCATION	FOOT
<b>STAGE 1</b>	
LT STA 148+02.06 TO RT STA 149+76.61	12:1 TAPER
RT STA 149+76.61 TO RT STA 151+26.61	TANGENT
RT STA 151+26.61 TO LT STA 153+01.16	12:1 TAPER
<b>TOTAL</b>	<b>500</b>

**RELOCATE TEMPORARY CONCRETE BARRIER**

LOCATION	FOOT
<b>STAGE 2</b>	
RT STA 149+01.71 TO LT STA 149+76.61	12:1 TAPER
LT STA 149+76.61 TO LT STA 151+26.61	TANGENT
LT STA 151+26.61 TO RT STA 152+01.50	12:1 TAPER
<b>TOTAL</b>	<b>300</b>

**IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3**

LOCATION	EACH
<b>STAGE 1</b>	
LT STA 148+02.06	1
LT STA 153+01.16	1
<b>TOTAL</b>	<b>2</b>

**IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3**

LOCATION	EACH
<b>STAGE 2</b>	
RT STA 149+01.71	1
RT STA 152+01.50	1
<b>TOTAL</b>	<b>2</b>

**PAINT PAVEMENT MARKING - LINE 4"**

LOCATION	COLOR	FOOT
<b>EDGE LINES</b>		
LT STA 146+14.13 TO STA 154+89.12	SOLID WHITE	875
RT STA 146+14.13 TO STA 154+89.12	SOLID WHITE	875
<b>CENTERLINE</b>		
STA 146+14.13 TO STA 154+89.12	YELLOW SKIP DASH	220
<b>TOTAL</b>		<b>1,970</b>

**STEEL PLATE BEAM GUARDRAIL TYPE A**

LOCATION	FOOT
LT STA 149+51.75 TO STA 149+76.75	25
LT STA 151+12.55 TO STA 152+00.05	87.5
RT STA 148+99.95 TO STA 149+87.45	87.5
RT STA 151+23.25 TO STA 151+48.25	25
<b>TOTAL</b>	<b>225</b>

**TRAFFIC BARRIER TERMINAL TYPE 6A**

LOCATION	EACH
LT STA 149+76.75 TO STA 150+20.50	1
LT STA 150+68.80 TO STA 151+12.55	1
RT STA 149+87.45 TO STA 150+31.20	1
LT STA 150+79.50 TO STA 151+23.25	1
<b>TOTAL</b>	<b>4</b>

**TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)**

LOCATION	EACH
LT STA 149+01.75 TO STA 149+51.75	1
LT STA 152+00.05 TO STA 152+50.05	1
RT STA 148+49.95 TO STA 148+99.95	1
RT STA 151+48.25 TO STA 151+98.25	1
<b>TOTAL</b>	<b>4</b>

**AGGREGATE SURFACE COURSE TYPE B**

LOCATION	TON
RT STA 148+20	15
<b>TOTAL</b>	<b>15</b>

**TERMINAL MARKER-DIRECT APPLIED**

LOCATION	EACH
LT STA 149+01.75	1
LT STA 152+50.05	1
RT STA 148+49.95	1</