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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	8

STA. TO STA.
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

CONTRACT NO. 60931

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT

MIXTURE USE	AIR VOIDS (%)
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MAINLINE RESURFACING

HMA SURFACE COURSE MIX "D" N70 (IL 9.5 mm), 50 mm	4% @ 70 Gyr.
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PROFILE CORRECTION

HMA BINDER COURSE IL-19.0, N70 (THICKNESS VARIES)	4% @ 70 Gyr.
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TEMPORARY PAVEMENT

TEMPORARY PAVEMENT (HMA BINDER IL-19 mm), 222 mm	4% @ 50 Gyr.
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HMA SURFACE COURSE MIX "D" N50 (IL-9.5 mm), 38 mm	4% @ 50 Gyr.
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WIDENING AREA

HMA SURFACE COURSE, MIX "D" N70 (IL 9.5 mm), 50 mm	4% @ 70 Gyr.
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HMA BASE COURSE (HMA BINDER IL-19 mm), 270 mm	4% @ 70 Gyr.
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HMA SHOULDER

HMA SHOULDER, 200 mm	2% @ 30 Gyr.
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PATCHING

CLASS D PATCH (HMA BINDER IL-19 mm), 305 mm	4% @ 70 Gyr.
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HMA ENTRANCES (CE/PE)

HMA SURFACE COURSE, MIX "C" N50 (IL 9.5 mm), 50 mm	4% @ 50 Gyr.
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HMA BASE COURSE (HMA BINDER IL-19 mm), 200 mm & 150 mm	4% @ 50 Gyr.
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HMA SIDEWALK

HMA SURFACE COURSE, MIX "C" N50 (IL 9.5 mm), 50 mm	4% @ 50 Gyr.
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HMA BASE COURSE (HMA BINDER IL-19 mm), 100 mm	4% @ 50 Gyr.
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NOTE:

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 2.430 KG PER SQUARE METER - MILLIMETER (112 POUNDS PER SQUARE YARD - INCH).

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

EARTHWORK SCHEDULE FOR IL 83 (MILWAUKEE AVENUE)

LOCATION ①	EARTH EXCAVATION ②	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE ③	EMBANKMENT ④	EMBANKMENT BALANCE WASTE (+) OR SHORTAGE (-) ⑤
	CUBIC METER	CUBIC METER	CUBIC METER	CUBIC METER
STA. 2+550 TO 2+700	215.250	182.962	75.000	+107.962
STA. 2+700 TO 2+850	454.500	386.325	93.500	+292.825
STA. 2+850 TO 3+000	459.000	390.150	120.000	+270.150
STA. 3+000 TO 3+150	541.250	460.062	75.000	+385.062
STA. 3+150 TO 3+250	236.000	200.600	59.750	+140.850
STA. 3+250 TO 3+325	147.500	125.375	50.000	+75.375
TOTAL	2053.500	1745.474	473.250	+1272.224

NOTE:

COLUMN 1, 2 & 4 = LOCATION AND QUANTITIES FROM CROSS SECTION
CUT = EARTH EXCAVATION FILL = EMBANKMENT

COLUMN 3 = QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 15%

COLUMN 5 = EARTHWORK REQUIRED.
(-) = QUANTITY OF FILL OR EMBANKMENT NEEDED
(+) = QUANTITY TO BE WASTED

* SINCE THE EARTH EXCAVATION QUANTITY IS GREATER THAN EMBANKMENT, NEEDED ONLY PAY ITEM FOR EARTH EXCAVATION, NO PAY ITEM FOR BORROW OR FURNISHED EXCAVATION IS NEEDED.

EARTHWORK SCHEDULE FOR IL 132 (GRAND AVENUE)

LOCATION ①	EARTH EXCAVATION ②	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE ③	EMBANKMENT ④	EMBANKMENT BALANCE WASTE (+) OR SHORTAGE (-) ⑤
	CUBIC METER	CUBIC METER	CUBIC METER	CUBIC METER
STA. 0+675 TO 0+825	311.250	264.562	20.500	+244.062
STA. 0+825 TO 0+975	359.000	224.878	112.500	+112.378
STA. 0+975 TO 1+125	410.875	349.240	54.250	+294.990
STA. 1+125 TO 1+275	438.750	372.938	173.500	+199.438
STA. 1+275 TO 1+300	12.500	10.625	12.500	-1.875
TOTAL	1532.375	1222.243	373.250	+848.993

NOTE:

COLUMN 1, 2 & 4 = LOCATION AND QUANTITIES FROM CROSS SECTION
CUT = EARTH EXCAVATION FILL = EMBANKMENT

COLUMN 3 = QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 15%

COLUMN 5 = EARTHWORK REQUIRED.
(-) = QUANTITY OF FILL OR EMBANKMENT NEEDED
(+) = QUANTITY TO BE WASTED

* SINCE THE EARTH EXCAVATION QUANTITY IS GREATER THAN EMBANKMENT, NEEDED ONLY PAY ITEM FOR EARTH EXCAVATION, NO PAY ITEM FOR BORROW OR FURNISHED EXCAVATION IS NEEDED.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL RTE 83 (MILWAUKEE AVE)
AT IL RTE 132 (GRAND AVE)
QUANTITY SCHEDULE
& MIXTURE REQUIREMENT TABLES

SCALE: DRAWN BY
DATE: 3/12/2010 CHECKED BY