

CALCULATIONS

ITEM 202 FENCE REMOVED

A. STA 223+75 TO STA 224+35, RT	=	80 LIN. FT.
B. STA 226+25 TO STA 227+00, LT	=	105 LIN. FT.
C. STA 227+95 TO STA 228+16, RT	=	40 LIN. FT.
SUBTOTAL	=	225 LIN. FT.

TOTAL OF ITEM 202	=	225 LIN. FT.
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ITEM 202 WEARING COURSE REMOVED

A. STA 222+72.09 TO STA 223+09.59, LT 37.5 FT. x 33 FT. / 9 SQ. FT./SQ. YD.	=	137.50 SQ. YDS.
B. STA 222+72.09 TO STA 223+09.59, RT 37.5 FT. x 33 FT. / 9 SQ. FT./SQ. YD.	=	17.50 SQ. YDS.
C. STA 227+92.36 TO STA 228+29.86, LT 37.5 FT. x 33 FT. / 9 SQ. FT./SQ. YD.	=	137.50 SQ. YDS.
D. STA 227+92.36 TO STA 228+29.86, RT 37.5 FT. x 33 FT. / 9 SQ. FT./SQ. YD.	=	137.50 SQ. YDS.
E. STA 236+03.13 TO STA 236+78.13, LT 75 FT. x 33.83 FT. / 9 SQ. FT./SQ. YD.	=	281.92 SQ. YDS.
F. STA 236+03.13 TO STA 236+78.13, RT 75 FT. x 33.83 FT. / 9 SQ. FT./SQ. YD.	=	281.92 SQ. YDS.
G. STA 238+23.20 TO STA 238+73.20, LT 50 FT. x 34.3 FT. / 9 SQ. FT./SQ. YD.	=	190.56 SQ. YDS.
H. STA 238+23.20 TO STA 238+73.20, RT 50 FT. x 33.83 FT. / 9 SQ. FT./SQ. YD.	=	187.94 SQ. YDS.
SUBTOTAL	=	1492.34 SQ. YDS.

TOTAL OF ITEM 202	=	1493 SQ. YDS.
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ITEM 203 EXCAVATION OF UNSUITABLE MATERIAL

A. STA 223+33.59 TO STA 223+47.09		
AREA BEHIND ABUTMENT 81 S.F. END AREA X 116.5 FT / 27 CU. FT./CU. YD.	=	349.50 CU. YDS.
MEDIAN BEHIND ABUTMENT 13.5 FT LENGTH X 2 FT DEPTH X 17 FT WIDTH / 27 CU. FT./CU. YD.	=	17.00 CU. YDS.
SUBTOTAL	=	366.50 CU. YDS.
B. STA 227+54.86 TO STA 227+68.36		
AREA BEHIND ABUTMENT 81 S.F. END AREA X 116.5 FT / 27 CU. FT./CU. YD.	=	349.50 CU. YDS.
MEDIAN BEHIND ABUTMENT 13.5 FT LENGTH X 2 FT DEPTH X 17 FT WIDTH / 27 CU. FT./CU. YD.	=	17.00 CU. YDS.
SUBTOTAL	=	366.50 CU. YDS.

TOTAL OF ITEM 203	=	733 CU. YDS.
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ITEM 203 LINEAR GRADING

A. STA 237+59, 50' RT TO STA 236+45, 115' LT	=	2.00 STA.
B. STA 238+22, 67' RT TO STA 237+70, 70' LT	=	2.25 STA.
SUBTOTAL	=	4.25 STA.

TOTAL OF ITEM 203	=	4.25 STA.
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ITEM 203 EMBANKMENT

A. STA 222+55.27 TO STA 222+81.27, LT 26 FT. x (1/2 x 5 FT. x 1 FT.) / 27 CU. FT./CU. YD.	=	2.41 CU. YDS.
B. STA 223+49.59 TO STA 223+75.59, RT 26 FT. x (1/2 x 5 FT. x 1 FT.) / 27 CU. FT./CU. YD.	=	2.41 CU. YDS.
C. STA 227+26.52 TO STA 227+52.52, LT 26 FT. x (1/2 x 5 FT. x 1 FT.) / 27 CU. FT./CU. YD.	=	2.41 CU. YDS.
D. STA 228+20.83 TO STA 228+46.83, RT 26 FT. x (1/2 x 5 FT. x 1 FT.) / 27 CU. FT./CU. YD.	=	2.41 CU. YDS.
E. STA 236+08.23 TO STA 236+34.23, LT 26 FT. x (1/2 x 5 FT. x 1 FT.) / 27 CU. FT./CU. YD.	=	2.41 CU. YDS.
F. STA 236+67.18 TO STA 236+93.18, RT 26 FT. x (1/2 x 5 FT. x 1 FT.) / 27 CU. FT./CU. YD.	=	2.41 CU. YDS.
G. STA 238+08.13 TO STA 238+34.13, LT 26 FT. x (1/2 x 5 FT. x 1 FT.) / 27 CU. FT./CU. YD.	=	2.41 CU. YDS.
H. STA 238+67.11 TO STA 238+93.11, RT 26 FT. x (1/2 x 5 FT. x 1 FT.) / 27 CU. FT./CU. YD.	=	2.41 CU. YDS.
I. STA 223+33.59 TO STA 223+47.09	=	2.41 CU. YDS.
AREA BEHIND ABUTMENT 60 S.F. END AREA X 116.5 FT / 27 CU. FT./CU. YD.	=	258.89 CU. YDS.
MEDIAN BEHIND ABUTMENT 27 S.F. END AREA X 17 FT LENGTH / 27 CU. FT./CU. YD.	=	17.00 CU. YDS.
J. STA 227+54.86 TO STA 227+68.36	=	2.41 CU. YDS.
AREA BEHIND ABUTMENT 60 S.F. END AREA X 116.5 FT / 27 CU. FT./CU. YD.	=	258.89 CU. YDS.
MEDIAN BEHIND ABUTMENT 27 S.F. END AREA X 17 FT LENGTH / 27 CU. FT./CU. YD.	=	17.00 CU. YDS.
SUBTOTAL	=	571.06 CU. YDS.

TOTAL OF ITEM 203	=	572 CU. YDS.
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ITEM 203 EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION

A. STA 222+55.27 TO STA 222+77.27, LT 22 FT. X 2 FT. X 1.50 FT. / 27 CU. FT./CU. YD.	=	2.44 CU. YDS.
B. STA 223+12.09 TO STA 223+22.09, LT 10 FT. X (29.17 FT. + 28.83 FT.) / 2 x 1.50 FT. / 27 CU. FT./CU. YD.	=	16.11 CU. YDS.
C. STA 223+12.09 TO STA 223+22.09, RT 10 FT. X (29.17 FT. + 28.83 FT.) / 2 x 1.50 FT. / 27 CU. FT./CU. YD.	=	16.11 CU. YDS.
D. STA 223+49.59 TO STA 223+54.59, LT 5 FT. X 2 FT. X 1.50 FT. / 27 CU. FT./CU. YD.	=	0.56 CU. YDS.
E. STA 227+47.52 TO STA 227+52.52, LT 5 FT. X 2 FT. X 1.50 FT. / 27 CU. FT./CU. YD.	=	0.56 CU. YDS.
F. STA 227+79.86 TO STA 227+89.86, LT 10 FT. X (29.17 FT. + 28.83 FT.) / 2 x 1.50 FT. / 27 CU. FT./CU. YD.	=	16.11 CU. YDS.
G. STA 227+79.86 TO STA 227+89.86, RT 10 FT. X (29.17 FT. + 28.83 FT.) / 2 x 1.50 FT. / 27 CU. FT./CU. YD.	=	16.11 CU. YDS.
H. STA 228+24.83 TO STA 228+46.83, RT 22 FT. X 2 FT. X 1.50 FT. / 27 CU. FT./CU. YD.	=	2.44 CU. YDS.
I. STA 236+08.23 TO STA 236+49.98, LT 41.75 FT. X 2 FT. X 1.23 FT. / 27 CU. FT./CU. YD.	=	3.80 CU. YDS.
J. STA 236+67.18 TO STA 237+08.93, RT 41.75 FT. X 2 FT. X 1.23 FT. / 27 CU. FT./CU. YD.	=	3.80 CU. YDS.
K. STA 238+08.13 TO STA 238+34.13, LT 26 FT. X 2 FT. X 1.23 FT. / 27 CU. FT./CU. YD.	=	2.37 CU. YDS.
L. STA 238+51.36 TO STA 238+93.11, RT 41.75 FT. X 2 FT. X 1.23 FT. / 27 CU. FT./CU. YD.	=	3.80 CU. YDS.
SUBTOTAL	=	84.21 CU. YDS.

TOTAL OF ITEM 203	=	85 CU. YDS.
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ITEM 203 SUBGRADE COMPACTION

A. STA 222+55.27 TO STA 222+77.27, LT 22 FT. X 2 FT. / 9 SQ. FT./SQ. YD.	=	4.89 SQ. YDS.
B. STA 223+12.09 TO STA 223+22.09, LT 10 FT. x (29.83 FT. + 30.17 FT.) / 2 / 9 SQ. FT./SQ. YD.	=	33.33 SQ. YDS.
C. STA 223+12.09 TO STA 223+22.09, RT 10 FT. x (29.83 FT. + 30.17 FT.) / 2 / 9 SQ. FT./SQ. YD.	=	33.33 SQ. YDS.
D. STA 223+22.09 TO STA 223+47.09, LT 25 FT. x 31.83 FT. / 9 SQ. FT./SQ. YD.	=	88.42 SQ. YDS.
E. STA 223+22.09 TO STA 223+47.09, RT 25 FT. x 31.83 FT. / 9 SQ. FT./SQ. YD.	=	88.42 SQ. YDS.
F. STA 223+49.59 TO STA 223+54.5. RT 5 FT. X 2 FT. / 9 SQ. FT./SQ. YD.	=	1.11 SQ. YDS.
G. STA 227+47.52 TO STA 227+52.52, LT 5 FT. X 2 FT. / 9 SQ. FT./SQ. YD.	=	1.11 SQ. YDS.
H. STA. 227+54.86 TO STA 227+79.86, LT 25 FT. x 31.83 FT. / 9 SQ. FT./SQ. YD.	=	88.42 SQ. YDS.
I. STA. 227+54.86 TO STA 227+79.86, RT 25 FT. x 31.83 FT. / 9 SQ. FT./SQ. YD.	=	88.42 SQ. YDS.
J. STA 227+79.86 TO STA 227+89.86, LT 10 FT. x (29.83 FT. + 30.17 FT.) / 2 / 9 SQ. FT./SQ. YD.	=	33.33 SQ. YDS.
K. STA 227+79.86 TO STA 227+89.86, RT 10 FT. x (29.83 FT. + 30.17 FT.) / 2 / 9 SQ. FT./SQ. YD.	=	33.33 SQ. YDS.
L. STA 228+24.83 TO STA 228+46.83, RT 22 FT. X 2 FT. / 9 SQ. FT./SQ. YD.	=	4.89 SQ. YDS.
M. STA 236+08.23 TO STA 236+49.98, LT 41.75 FT. X 2 FT. / 9 SQ. FT./SQ. YD.	=	9.28 SQ. YDS.
N. STA 236+67.18 TO STA 237+08.93, RT 41.75 FT. X 2 FT. / 9 SQ. FT./SQ. YD.	=	9.28 SQ. YDS.
C. STA 238+08.13 TO STA 238+34.13, LT 26 FT. X 2 FT. / 9 SQ. FT./SQ. YD.	=	5.78 SQ. YDS.
P. STA 238+51.36 TO STA 238+93.11, RT 41.75 FT. X 2 FT. / 9 SQ. FT./SQ. YD.	=	9.28 SQ. YDS.
SUBTOTAL	=	532.62 SQ. YDS.

TOTAL OF ITEM 203	=	533 SQ. YDS.
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ITEM 301 BITUMINOUS AGGREGATE BASE, AC-20

9" THICKNESS		
A. STA 223+12.09 TO STA 223+22.09, LT 10 FT. X (29.17 FT. + 28.83 FT.) / 2 x 0.750 FT. / 27 CU. FT./CU. YD.	=	8.06 CU. YDS.
B. STA 223+12.09 TO STA 223+22.09, RT 10 FT. X (29.17 FT. + 28.83 FT.) / 2 x 0.750 FT. / 27 CU. FT./CU. YD.	=	8.06 CU. YDS.
C. STA 227+79.86 TO STA 227+89.86, LT 10 FT. X (29.17 FT. + 28.83 FT.) / 2 x 0.750 FT. / 27 CU. FT./CU. YD.	=	8.06 CU. YDS.
D. STA 227+79.86 TO STA 227+89.86, RT 10 FT. X (29.17 FT. + 28.83 FT.) / 2 x 0.750 FT. / 27 CU. FT./CU. YD.	=	8.06 CU. YDS.
E. STA 236+08.23 TO STA 236+49.98, LT 41.75 FT. x 1.5 FT. x 0.750 FT. / 27 CU. FT./CU. YD.	=	1.74 CU. YDS.
F. STA 236+67.18 TO STA 237+08.93, RT 41.75 FT. x 1.5 FT. x 0.750 FT. / 27 CU. FT./CU. YD.	=	1.74 CU. YDS.
G. STA 238+08.13 TO STA 238+34.13, LT 26 FT. X 1.5 FT. X 0.750 FT. / 27 CU. FT./CU. YD.	=	1.08 CU. YDS.
H. STA 238+51.36 TO STA 238+93.11, RT 41.75 FT. x 1.5 FT. x 0.750 FT. / 27 CU. FT./CU. YD.	=	1.74 CU. YDS.
SUBTOTAL	=	38.54 CU. YDS.
10.5" THICKNESS		
I. STA 222+55.27 TO STA 222+77.27, LT 22 FT. X 1.5 FT. X 0.875 FT. / 27 CU. FT./CU. YD.	=	1.07 CU. YDS.
J. STA 223+49.59 TO STA 223+54.59, RT 5 FT. X 1.5 FT. X 0.875 FT. / 27 CU. FT./CU. YD.	=	0.24 CU. YDS.
K. STA 227+47.52 TO STA 227+52.52, LT 5 FT. X 1.5 FT. X 0.875 FT. / 27 CU. FT./CU. YD.	=	0.24 CU. YDS.
L. STA 228+24.83 TO STA 228+46.83, RT 22 FT. X 1.5 FT. X 0.875 FT. / 27 CU. FT./CU. YD.	=	1.07 CU. YDS.
SUBTOTAL	=	2.62 CU. YDS.

TOTAL OF ITEM 301	=	42 CU. YDS.
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