

CALCULATIONS

DESCRIPTION	QUAN.	UNIT	DESCRIPTION	QUAN.	UNIT	DESCRIPTION	QUAN.	UNIT
<u>ITEM 202 - PAVEMENT REMOVED (THICKNESS = 17")</u> EXISTING APPROACH SLABS: STA. 46+98.12 TO STA. 47+28.12 = 30.00 L.F. STA. 54+16.22 TO STA. 54+46.22 = <u>30.00 L.F.</u> 60.00 L.F. 60 L.F. x 51' ÷ 9 = <u>340 S.Y.</u>	340	S.Y.	<u>ITEM 310 - 6" SUBBASE, TYPE I, AS PER PLAN</u> AREA OF PAVEMENT WIDENING: STA. 38+76 TO STATION STREET, RT. (PLANIMETERED) = 1195 S.F. STA. 38+76 TO CARPENTER DRIVE, LT. (PLANIMETERED) = 971 S.F. STATION STREET TO STA. 44+74, RT. (PLANIMETERED) = 1740 S.F. CARPENTER DRIVE TO STA. 44+74, LT. (PLANIMETERED) = 1740 S.F. STA. 61+25 TO FRACCI COURT, RT. (PLANIMETERED) = 2095 S.F. FRACCI COURT TO STA. 67+48.21, RT. (PLANIMETERED) = 2063 S.F. AREA FROM ITEM 301: STA. 42+35 TO STA. 42+65; = 30 L.F. x 47' = 1410 S.F. STA. 56+79 TO STA. 56+89; = 10 L.F. x 50' = 500 S.F. AREA FROM ITEM 611: STA. 46+98.12 TO STA. 47+28.12; = 30 L.F. x 53' = 1590 S.F. STA. 54+16.22 TO STA. 54+46.22 = 30 L.F. x 53' = 1590 S.F. 14,894 S.F.	276	C.Y.	<u>ITEM 609 - CURB, TYPE 2-B</u> STA. 38+76 TO STATION STREET, RT. = 217 L.F. STA. 38+76 TO CARPENTER DRIVE, LT. = 178 L.F. STATION STREET TO STA. 44+74, RT. = 328 L.F. CARPENTER DRIVE TO STA. 44+74, LT. = 328 L.F. STA. 61+25 TO FRACCI COURT, RT. = 282 L.F. FRACCI COURT TO STA. 67+48.21, RT. = 291 L.F. STA. 56+79 TO STA. 56+89, LT. & RT. = 20 L.F. 1644 L.F.	1644	L.F.
<u>ITEM 203 - SUBGRADE COMPACTION</u> AREA FROM ITEM 611 = <u>340 S.Y.</u>	340	S.Y.	14,894 S.F. x .5' ÷ 27 = <u>276 C.Y.</u> <u>ITEM 402 - ASPHALT CONCRETE, AC-20</u> STA. 39+06 TO STA. 39+56 = 50 L.F. x 54.125 (AVERAGE WIDTH) = 2706.25 S.F. STA. 39+56 TO STA. 43+94 = 438 L.F. x 56 = 24,528.0 S.F. STA. 43+94 TO STA. 44+74 = 80 L.F. x 53' (AVERAGE WIDTH) = 4240 S.F. STA. 44+74 TO STA. 46+60.62 = 186.62 L.F. x 50' = 9331 S.F. STA. 46+60.62 TO STA. 61+25 = 641.28 L.F. x 50' = 32,064.0 S.F. STA. 61+25 TO STA. 62+85 = 160 L.F. x 53' (AVERAGE WIDTH) = 8480 S.F. STA. 62+85 TO STA. 67+18.21 = 433.21 L.F. x 56' = 24,259.76 S.F. ADD AREA FOR STATION ST. (PLANIMETERED) = 1472 S.F. 107,081.01 S.F.	621	C.Y.	<u>ITEM 611 - REINFORCED CONCRETE APPROACH SLAB (T=17")</u> STA. 46+98.12 TO STA. 47+28.12 = 30.00 L.F. STA. 54+16.22 TO STA. 54+46.22 = 30.00 L.F. 60.00 L.F. 60.0 L.F. x 51' ÷ 9 = <u>340 S.Y.</u>	340	S.Y.
<u>ITEM 254 PAVEMENT PLANING, PORTLAND CEMENT CONCRETE</u> STA. 38+76 TO STA. 39+06; = 30 L.F. x 47' = 1410 S.F. STA. 67+18.21 TO STA. 67+48.21; = 30 L.F. x 53.7' (AVG. WIDTH) = 1611 S.F. ADD AREA AT STATION STREET (PLANIMETERED) = 1024 S.F. ADD AREA AT CARPENTER DRIVE (PLANIMETERED) = 1600 S.F. ADD AREA AT FRACCI COURT (PLANIMETERED) = 1500 S.F. ADD AREA AT LINDSAY DRIVE (PLANIMETERED) = 1930 S.F. 9075 S.F.	1008	S.Y.	107,081.01 S.F. x 2 1/4" DEPTH / 12 ÷ 27 = <u>743.6 C.Y.</u> STA. 38+76 TO STA. 39+06 = 30 L.F. x 51.125' (AVERAGE WIDTH) = 1533.75 S.F. STA. 46+60.62 TO STA. 46+98.12 = 37.5 L.F. x 50' = 1875 S.F. STA. 54+46.22 TO STA. 54+88.72 = 37.5 L.F. x 50' = 1875 S.F. STA. 67+18.21 TO STA. 67+48.21 = 30 L.F. x 56' = 1680 S.F. ADD AREA FOR CARPENTER DRIVE (PLANIMETERED) = 1735 S.F. ADD AREA FOR STATION STREET (PLANIMETERED) = 1020 S.F. ADD AREA FOR LINDSAY DRIVE (PLANIMETERED) = 1953 S.F. ADD AREA FOR FRACCI COURT (PLANIMETERED) = 1670 S.F. 13,341.75 S.F.	821	C.Y.	<u>ITEM 659 - SEEDING & MULCHING</u> (AREA WITHIN WORK LIMITS) STA. 38+76 TO STATION STREET, RT. (PLANIMETERED) = 770 S.F. STA. 38+76 TO CARPENTER DRIVE, LT. (PLANIMETERED) = 1050 S.F. STATION STREET TO STA. 44+74, RT. (PLANIMETERED) = 4750 S.F. CARPENTER DRIVE TO STA. 44+74, LT. (PLANIMETERED) = 1780 S.F. STA. 45+94 TO STA. 46+00, RT.; = 6 L.F. x 7' = 42 S.F. STA. 55+41 TO STA. 55+47, RT.; = 6 L.F. x 7' = 42 S.F. STA. 55+46 TO STA. 55+62, LT.; = 6 L.F. x 7' = 42 S.F. STA. 56+46 TO STA. 56+95, LT.; = 40 L.F. x 7' = 280 S.F. STA. 56+56 TO STA. 56+98, RT.; = 42 L.F. x 7' = 294 S.F. STA. 56+66 TO STA. 56+98, RT.; = 32 L.F. x 60' = 1920 S.F. STA. 61+25 TO FRACCI COURT, RT. (PLANIMETERED) = 2875 S.F. STA. 63+32 TO STA. 63+62, LT.; = 30 L.F. x 7' = 210 S.F. FRACCI COURT TO STA. 67+48.21, RT. (PLANIMETERED) = 2430 S.F. STA. 67+13 TO STA. 67+33, LT.; = 20 L.F. x 7' = 140 S.F. 16,625 S.F.	1847	S.Y.
<u>ITEM 301 - 9" BITUMINOUS AGGREGATE BASE, AC-20</u> STA. 42+35 TO STA. 42+65; = 30 L.F. x 47' = 1410 S.F. STA. 56+79 TO STA. 56+89; = 10 L.F. x 50' = 500 S.F. 1910 S.F.	53	C.Y.	13,341.75 x 1.875" AVG. DEPTH / 12 ÷ 27 = <u>77.2 C.Y.</u> ITEM TOTAL = <u>820.8 C.Y.</u> <u>ITEM 407 - TACK COAT</u> AREA FROM ITEM 402 = 120,422.76 S.F. 120,422.76 S.F. ÷ 9 = 13,380 S.Y. 13,380 S.Y. x .10 GAL./S.Y. = <u>1338 GAL.</u>	1338	GAL.	16,625 S.F. ÷ 9 = <u>1847 S.Y.</u>	1847	S.Y.
<u>ITEM 305 - 9" CONCRETE BASE</u> STA. 38+76 TO STATION STREET, RT. (PLANIMETERED) = 978 S.F. STA. 38+76 TO CARPENTER DRIVE, LT. (PLANIMETERED) = 793 S.F. STATION STREET TO STA. 44+74, RT. (PLANIMETERED) = 1537 S.F. CARPENTER DRIVE TO STA. 44+74, LT. (PLANIMETERED) = 1537 S.F. STA. 61+25 TO FRACCI COURT, RT. (PLANIMETERED) = 1813 S.F. FRACCI COURT TO STA. 67+48.21, RT. (PLANIMETERED) = 1772 S.F. 8430 S.F.	937	S.Y.	<u>ITEM SPECIAL - 3/4" RUBBERIZED OPEN GRADED FRICTION COURSE</u> AREA FROM ITEM 402 = 120,422.76 S.F. 120,422.76 S.F. x .0625' ÷ 27 = <u>279 C.Y.</u>	279	C.Y.	<u>ITEM 659 - COMMERCIAL FERTILIZER</u> APPROX. 20 LBS./1000 S.F. OF PERMANENT SEEDING AND MULCHING AREA FROM 659 SEEDING & MULCHING = 16,625 S.F. 17 x 20 LBS. ÷ 2000 LBS./TON = <u>0.17 TON</u>	0.17	TON
<u>ITEM 203 - EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION</u> AREA OF ITEM 305 = 8430 S.F. 8430 S.F. x 1.75' (AVG. DEPTH) ÷ 27 = <u>546 C.Y.</u>	546	C.Y.	17 x 100 LBS. ÷ 2000 LBS./TON = <u>0.85 TON</u>	0.85	TON	<u>ITEM 659 - AGRICULTURAL LIMING</u> APPROX. 100 LBS./1000 S.F. OF PERMANENT SEEDING AND MULCHING AREA FROM 659 SEEDING & MULCHING = 16,625 S.F.	0.85	TON