MIA-HIGH STREET IMPROVEMENTS –FINAL TRACINGS
OFFICE CALCULATIONS

ITEM 202 PAVEMENT REMOVED (SQ YD)
(AREAS BY COMPUTER) – 108,096 SF
EX. ROADWAY 108,096 SF ÷ 9 12,011 SQ YD

NEW PAVEMENT
(AREAS BY COMPUTER) – 107,362 SF

ITEM 254 PAVEMENT PLANING
(AREA BY COMPUTER) – 1527 SF

ITEM 204 SUBGRADE COMPACTION (SQ YD)
AREA BY COMPUTER - 107,362 SQ FT ÷ 9 = 11,929 SQ YD
AREA UNDER CURB – 5003' X 3' ÷ 9 = 1,667 SQ YD
13,596 SQ YD

ITEM 204 PROOF ROLLING (HOUR)
FROM ABOVE - 13,596 SY ÷ 2,000 SY/HR = 7 HOURS

ITEM 302 5" ASPHALT CONCRETE BASE (CU YD)
(AREA BY COMPUTER) 107,362 SF x (5/12)' = 44,734 CU FT ÷ 27 = 1656 CU YD

ITEM 304 6" AGGREGATE BASE (CU YD)
(AREA BY COMPUTER) 107,362 SF x (6/12)' = 53,681 CU FT
(CURB LENGTH) 5003' x 3' x .5' = 7,505 CU FT
61,186 CU FT ÷ 27 = 2266 CU YD

ITEM 410 TRAFFIC COMPACTED SURFACE (CU YD)
1'x ½ x 10' x 10' x 22 DRIVES = 1100 CU FT ÷ 27 = 41 CU YD

ITEM 407 NON-TRACKING TACK COAT (GALLON)
(AREA BY COMPUTER) (107,362 SF+ 1527 SF) ÷ 9 = 12,099 SY x 0.055 GAL x 2 Layers = 1331 GAL

ITEM 442 1.5" ASPHALT CONCRETE SURFACE COURSE (CU YD)
(AREA BY COMPUTER) (107,362+1735+1527) = 110,624 SF x 0.125' = 13,828 CU FT ÷ 27 = 512 CU YD

ITEM 442 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE (CU YD)
(AREA BY COMPUTER) 107,362 SF x 0.146' = 15,657 CU FT ÷ 27 = 580 CU YD

ITEM 659 TOPSOIL (CY)
AREAS BY COMPUTER – 10850 x (4/12)' ÷ 27 = 134 SY

ITEM 659 SEEDING AND MULCHING (SQ YD)
AREAS BY COMPUTER – 10,850 ÷ 9 = 1206 SY

ITEM 659 COMMERCIAL FERTILIZER (TONS)
SEEDING x 1 TON/ 7,410 SY = 1206 SY x 0.000135 = 0.16 TONS

ITEM 659 WATER (MGAL)
1206 SY (SEEDING) x 0.0054 MGAL = 6.5 MGAL

SUBGRADE STABILIZATION

ITEM 204 EXCAVATION OF SUBGRADE

ITEM 204 GRANULAR MATERIAL, TYPE B

AREA BY COMPUTER – (19,801+(562 x 3)SQ FT x (12/12)' ÷ 27 = 796 CU YD

(26,355+(1235 x 3)SQ FT x (15/12)' ÷ 27 = 1392 CU YD

(28,962+(1493 x 3)SQ FT x (12/12)' ÷ 27 = 1239 CU YD

3427 CU YD

ITEM 204 GEOTEXTILE FABRIC

AREA BY COMPUTER –55,317 SQ FT÷ 9 = 6146 SY