

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE	000	TOTAL
NO.	ITEM	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	302
20100120	TREE REMOVAL (OVER 15 UNITS DIAMETER)	300
20200100	EARTH EXCAVATION	1,948
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	200
20400800	FURNISHED EXCAVATION	2,082
20800150	TRENCH BACKFILL	976
25000115	SEEDING, CLASS 1B	1.8
25000400	NITROGEN FERTILIZER NUTRIENT	162
25000500	PHOSPHORUS FERTILIZER NUTRIENT	162
25000600	POTASSIUM FERTILIZER NUTRIENT	162
25000700	AGRICULTURAL GROUND LIMESTONE	3.6
25100115	MULCH, METHOD 2	1.8
25100630	EROSION CONTROL BLANKET	644
25100900	TURF REINFORCEMENT MAT	10
28000200	EARTH EXCAVATION FOR EROSION CONTROL	2
28000250	TEMPORARY EROSION CONTROL SEEDING	180
28000305	TEMPORARY DITCH CHECKS	66
28000400	PERIMETER EROSION BARRIER	1,937
28000500	INLET AND PIPE PROTECTION	62
28100207	STONE RIPRAP, CLASS A4	55
28200200	FILTER FABRIC	92
30200650	PROCESSING MODIFIED SOIL 12"	8,433
30201500	LIME	239
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	400
31101000	SUBBASE GRANULAR MATERIAL, TYPE C	270
35101100	AGGREGATE BASE COURSE, TYPE A 12"	1,868
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	442
35600708	HOT-MIX ASPHALT BASE COURSE WIDENING, 8"	4,422
40200800	AGGREGATE SURFACE COURSE, TYPE B	3.9
40201000	AGGREGATE FOR TEMPORARY ACCESS	172
40600100	BITUMINOUS MATERIALS (PRIME COAT)	3,140
40600300	AGGREGATE (PRIME COAT)	63
40600635	LEVELING BINDER (MACHINE METHOD), N70	1,900
40600895	CONSTRUCTING TEST STRIP	1
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	235
40603840	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	1,043
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	111
47300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	96.5
47300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	355.3
44000100	PAVEMENT REMOVAL	255
44000200	DRIVEWAY PAVEMENT REMOVAL	785.9
44000500	COMBINATION CURB AND GUTTER REMOVAL	21
44201773	CLASS D PATCHES, TYPE I, 11 INCH	74
44201777	CLASS D PATCHES, TYPE II, 11 INCH	419.7
44201781	CLASS D PATCHES, TYPE III, 11 INCH	60
44201783	CLASS D PATCHES, TYPE IV, 11 INCH	127.6
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	7,767
48101600	AGGREGATE SHOULDERS, TYPE B, 8"	37
48200220	HOT-MIX ASPHALT SHOULDERS, 8"	3,701
50104400	CONCRETE HEADWALL REMOVAL	6
50105220	PIPE CULVERT REMOVAL	443
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	3
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	1
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	1
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	5
54248510	CONCRETE COLLAR	4
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	2,332
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	442
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	716
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	1,733
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	3
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	166
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	20
60211100	MANHOLES, TYPE A, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID	1
60222270	MANHOLES, TYPE A, 5' DIAMETER, TYPE 3V FRAME AND GRATE	2
60236200	INLETS, TYPE A, TYPE B GRATE	1
60237000	INLETS, TYPE A, TYPE 15 FRAME AND LID	9
60240210	INLETS, TYPE B, TYPE 1 FRAME, OPEN LID	4
60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	3
60240370	INLETS, TYPE B, TYPE 15 FRAME AND LID	10
60255500	MANHOLES TO BE ADJUSTED	11
60600095	CLASS 3/4 CONCRETE (OUTLET)	3.4
60601100	CONCRETE GUTTER TRANSITION	38
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	14
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	5,749
60605050	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (VARIABLE WIDTH GUTTER FLAG)	113
63200310	GUARDRAIL REMOVAL	149
67000400	ENGINEER'S FIELD OFFICE, TYPE A	15
67100100	MOBILIZATION	1
70103815	TRAFFIC CONTROL SURVEILLANCE	54
70300100	SHORT-TERM PAVEMENT MARKING	3,168
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	421.2
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	35,595
70300240	TEMPORARY PAVEMENT MARKING - LINE 12"	177
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	522
72000100	SIGN PANEL - TYPE 1	86
73000100	WOOD SIGN SUPPORT	224
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	421.2
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	15,805
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	161
78100100	RAISED REFLECTIVE PAVEMENT MARKER	148
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	12
20013300	SEGMENTAL CONCRETE BLOCK WALL	48
20051500	REMOVING AND RESETTING STREET SIGNS	4
X0323380	STORM SEWER CONNECTION	1
X0950810	BOLLARD REMOVAL	1
X4811900	AGGREGATE SHOULDERS (SPECIAL)	70
X5010522	REMOVE CONCRETE END SECTION	3
X5015225	PIPE CULVERT REMOVAL (SPECIAL)	32
X6020074	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	7
X6020075	INLETS, TYPE B, TYPE 3V FRAME AND GRATE	11
X6024242	INLETS, SPECIAL, No. 1	1
X6024244	INLETS, SPECIAL, No. 2	1
X6024246	CONCRETE GUTTER, TYPE B (SPECIAL)	3
X7030216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	58
X7240200	SIGN REMOVAL	1
X9001095	MAILBOX REMOVAL AND REPLACEMENT	7
X9001095	MAILBOX REMOVAL AND REPLACEMENT	11

* SPECIALTY ITEMS

STRUCTURAL DESIGN DATA
FOSTERBURG ROAD - PHASE 2

PAVEMENT DESIGN: MODIFIED AASHTO DESIGN FOR OVERLAYS ON EXISTING RIGID / COMPOSITE PAVEMENTS

CLASS OF ROAD: CLASS II

DESIGN PERIOD: 20 YEARS

TRAFFIC DATA: 2012 ADT=8,000
2022 ADT=8,800 (SDT)
2032 ADT=9,800

STRUCTURAL DESIGN TRAFFIC: PV (96.9%) = 8,527
SU (3%) = 264
MU (0.1%) = 9

TRAFFIC FACTOR: 0.42

IMMEDIATE BEARING: IBV = 2

STRUCTURAL NUMBER: SNc = 2.81

HMA OVERLAY THICKNESS REQUIRED: Do = 2.8"

PROPOSED OVERLAY: HMA LEVELING BINDER = 2 1/2"
HMA BINDER (LEVELING BINDER MATERIAL) = 1 1/2"
HMA SURFACE = 1 1/2"

TOTAL HMA 5 1/2"

SMS ENGINEERS

Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS

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DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
SECTION 05-00218-01-WR
FOSTERBURG ROAD - PHASE 2
SUMMARY OF QUANTITIES

DWG. NO.	
REF. SK. PG.	
JOB NO.	206812
DSN. BY:	DEC
DWN. BY:	CDP
CHK. BY:	DEC
DATE:	SEPT, 2010
SCALE:	1" = 20' H. 1" = 5' V.
SHEET	3 OF 55