

EARTHWORK SUMMARY

EARTH EXCAVATION	4579 C.Y. *
DEDUCT DRIVEWAY PAVEMENT	59 C.Y.
EARTH EXCAVATION	4520 C.Y.
EMBANKMENT	963 C.Y. **
WASTE - SUBTOTAL	3,557 C.Y.
WASTE FROM SEWER TRENCHES	710 C.Y. ***
WASTE - TOTAL	4,267 C.Y.

* EARTH EXCAVATION QUANTITIES FROM CROSS SECTIONS INCLUDE EXISTING DRIVEWAYS AND THE EXISTING PAVEMENT. THE DRIVEWAYS HAVE BEEN CONVERTED TO CUBIC YARDS AND HAVE BEEN DEDUCTED FROM THE EARTH EXCAVATION. REMOVAL OF ANY PORTIONS OF THE EXISTING PAVEMENT IS CONSIDERED INCLUDED IN EARTH EXCAVATION.

** INCLUDES 20% SHRINKAGE FACTOR

*** BASED ON PAY WIDTH FOR TRENCH BACKFILL AS DETAILED IN THE PLANS

EXISTING PAVEMENT MAY BE TILLED AND USED IN THE SUB-BASE GRANULAR MATERIAL (SPECIAL) SEE SPECIAL PROVISIONS

SUBBASE REPAIRS

THE FOLLOWING ITEMS HAVE BEEN INCLUDED FOR ESTIMATING PURPOSES. SUBBASE REPAIR AREA IS ESTIMATED USING 10% OF THE PROPOSED PAVING AREA, WITH A DEPTH OF 1.5 FT. GRANULAR EMBANKMENT IS ESTIMATED USING 2.05 TONS PER CUBIC YARD.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	436 C.Y.
GRANULAR EMBANKMENT, SPECIAL	894 TON
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	871 S.Y.

FURNISH AND ERECT R.O.W. MARKERS

LOCATION	QUANTITY
LT. & RT. STA. 24+82	2 EA.
RT. STA. 36+07	1 EA.
LT. STA. 36+08	1 EA.
RT. STA. 36+87	1 EA.
LT. STA. 36+88	1 EA.
LT. & RT. STA. 40+87	2 EA.
LT. & RT. STA. 75+60	2 EA.
LT. & RT. STA. 84+40	2 EA.
PROJECT TOTAL	12 EA.

PAVING SCHEDULE

LOCATION	PAVING AREA (S.Y.)	SUB-BASE GRANULAR MATERIAL (SPECIAL) (S.Y.)	HMA SURFACE REMOVAL, 2" (S.Y.)	HMA SURFACE REMOVAL VAR. DEPTH (S.Y.)	HMA BASE COURSE, 4" (S.Y.)	HMA BASE COURSE, 8" (S.Y.)	BIT. MAT'L'S. (PRIME COAT) (GAL.)	POLY. BIT. MAT'L'S. (PRIME COAT) (GAL.)	HOT-MIX ASPHALT BINDER CSE. IL-19.0, N50 (TON)	POLY. HOT-MIX ASPHALT SURF. CSE., MIX "D", N50 (TON)	LEVELING BINDER (MACH. METH.), N50 (TON)
E. JEFFERSON ST.											
LT. & RT. STA. 25+01 TO STA 37+34	5,585	6293	0	0	5,585	0	1536	140	938	626	0
LT. & RT. STA. 37+34 TO STA 38+20	339	359	0	0	339	0	94	9	57	30	0
LT. & RT. STA. 38+20 TO STA 40+44	685	0	0	153	0	175	8	17	30	77	0
LT. & RT. STA. 38+20 TO STA 39+75	345	0	0	0	0	0	0	0	0	0	36
TENNESSEE AVE.											
LT. & RT. STA. 76+76 TO STA 77+00	71	0	62	0	0	8	2	2	8	0	0
LT. & RT. STA. 77+00 TO STA 78+83	620	661	0	0	620	0	181	16	104	70	0
LT. & RT. STA. 78+83 TO STA 79+50	317	356	0	0	317	0	96	9	53	36	0
LT. & RT. STA. 80+50 TO STA 81+16	313	351	0	0	313	0	97	9	58	35	0
LT. & RT. STA. 81+16 TO STA 82+25	392	416	0	0	392	0	114	10	66	44	0
LT. & RT. STA. 82+25 TO STA 83+25	306	0	248	0	0	50	2	8	9	34	0
PROJECT TOTALS		8436 S.Y.	310 S.Y.	153 S.Y.	7,566 S.Y.	233 S.Y.	2132 GAL.	220 GAL.	1312 TON	968 TON	38 TON

HMA QUANTITIES ESTIMATED USING 112 LBS./S.Y./INCH THICKNESS.

PRIME ESTIMATED USING 0.30 GALLON PER SQUARE YARD ON

AGGREGATE BASE AND 0.05 GALLON PER SQUARE YARD ON HMA BINDER COURSE.

AGGREGATE SHOULDERS, TYPE B, 6"

LOCATION	QUANTITY
E. JEFFERSON ST.	
LT. STA. 37+62 TO LT. STA. 40+57	129
RT. STA. 37+62 TO RT. STA. 37+84	6
RT. STA. 38+15 TO RT. STA. 40+57	108
TENNESSEE AVE.	
LT. STA. 76+76 TO LT. STA. 78+83	89
RT. STA. 76+76 TO RT. STA. 78+26	67
RT. STA. 78+53 TO RT. STA. 78+83	11
LT. STA. 81+17 TO LT. STA. 83+25	90
RT. STA. 81+17 TO RT. STA. 83+25	90
PROJECT TOTAL	590 S.Y.

SEEDING SCHEDULE

FERTILIZER TO BE APPLIED @ 270 LB. PER ACRE @ 1-1-1 RATIO

LOCATION	FURNISHING AND PLACING TOPSOIL, 4" (S.Y.) *	CLASS 1A SEEDING (ACRES)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	MULCH METHOD TY. 2 PROCEDURE 1 (ACRE)**
E. JEFFERSON ST.						
LT. STA. 25+01 TO STA 36+25	1,099	0.23	20.7	20.7	20.7	0.23
RT. STA. 25+01 TO STA 36+15	1,585	0.33	29.7	29.7	29.7	0.33
RT. STA. 36+76 TO STA 40+70	586	0.12	10.8	10.8	10.8	0.12
LT. STA. 36+79 TO STA 40+70	738	0.15	13.5	13.5	13.5	0.15
TENNESSEE AVE.						
LT. STA. 76+50 TO STA 79+50	255	0.05	4.5	4.5	4.5	0.05
RT. STA. 76+50 TO STA 79+50	266	0.06	5.4	5.4	5.4	0.06
LT. STA. 80+50 TO STA 83+47	351	0.07	6.3	6.3	6.3	0.07
RT. STA. 80+50 TO STA 83+50	427	0.09	8.1	8.1	8.1	0.09
PROJECT TOTALS	5,307 S.Y.	1.1 AC.	99 LB.	99 LB.	99 LB.	1.1 ACRE

* 5,307 S.Y. EQUATES TO 584 C.Y. OF TOPSOIL AT 4" THICK

** MULCH TO BE APPLIED AT 2 TON PER ACRE

DRIVEWAY SCHEDULE

LOCATION	DRIVEWAY PAVEMENT REMOVAL (S.Y.)	P.C.C. DRIVE. PVM/T., 6" (S.Y.)	P.C.C. DRIVE. PVM/T., 7" (S.Y.)	AGGR. SURF. CSE., TY. B (TON)
LT. STA. 28+80	98		35	
LT. STA. 32+36	135		78	
RT. STA. 37+99	60	46		
LT. STA. 40+21				30
RT. STA. 40+32				11
RT. STA. 78+40	70	54		
PROJECT TOTALS	363 S.Y.	100 S.Y.	117 S.Y.	41 TON

RIPRAP SCHEDULE

LOCATION	RIPRAP CLASS A4 (S.Y.)	FILTER FABRIC (S.Y.)
LT. STA. 40+62	16	16
PROJECT TOTALS	16 S.Y.	16 S.Y.

COMB. CONCRETE CURB & GUTTER TY. B-6.12

LOCATION	QUANTITY
E. JEFFERSON ST.	
RT. STA. 25+01 TO RT. STA. 36+17	1,094
LT. STA. 25+01 TO LT. STA. 36+24	1,073
RT. STA. 36+70 TO RT. STA. 37+70	109
LT. STA. 36+77 TO LT. STA. 37+70	90
TENNESSEE AVE.	
LT. STA. 78+75 TO LT. STA. 79+50	77
RT. STA. 78+75 TO RT. STA. 79+50	70
LT. STA. 80+50 TO STA. 81+25	78
RT. STA. 80+50 TO STA. 81+25	82
PROJECT TOTAL	2673 FT.

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	4,520
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	436
20600110	GRANULAR EMBANKMENT, SPECIAL	TON	894
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	871
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	5,307
25000110	SEEDING, CLASS 1A	ACRE	1.1
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	99
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	99
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	99
25100115	MULCH, METHOD 2	ACRE	1.1
28000500	INLET AND PIPE PROTECTION	EACH	21
28000510	INLET FILTERS	EACH	23
28100107	STONE RIPRAP, CLASS A4	SQ YD	16
28200200	FILTER FABRIC	SQ YD	16
35501300	HOT-MIX ASPHALT BASE COURSE, 4"	SQ YD	7,566
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	233
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	41
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2,132
40600115	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	GALLON	220
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	38
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1,312
40603535	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "D", N50	TON	968
42300200	P.C.C. DRIVEWAY PAVEMENT, 6"	SQ YD	100
42300300	P.C.C. DRIVEWAY PAVEMENT, 7"	SQ YD	117
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	310
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	363
48101500	AGGREGATE SHOULDERS, TYPE B, 6"	SQ YD	590
50104400	CONCRETE HEADWALL REMOVAL	EACH	5
50105220	PIPE CULVERT REMOVAL	FOOT	305
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	35
542D0217	PIPE CULVERTS, CLASS D, TYPE 1, 12"	FOOT	60
542D0220	PIPE CULVERTS, CLASS D, TYPE 1, 15"	FOOT	53
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTION, 12"	EACH	3
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTION, 24"	EACH	1
54248510	CONCRETE COLLAR	CU YD	0.60
550A0340	STORM SEWERS, CLASS A, TYPE 2, 12"	FOOT	717
550A0410	STORM SEWERS, CLASS A, TYPE 2, 24"	FOOT	941
60219000	MANHOLES, TYPE A, 4' - DIAMETER, TYPE 8 GRATE	EACH	1
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	4
XX008440	INLETS, TYPE G-1	EACH	4
60603800	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12	FOOT	2,673
66600105	FURNISHING AND ERECTING R.O.W. MARKERS	EACH	12
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3
67100100	MOBILIZATION	LSUM	1
70300100	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LSUM	1
70300210	SHORT TERM PAVEMENT MARKING	FOOT	673
70300220	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	156
70300250	TEMPORARY PAVEMENT MARKING, LINE 4"	FOOT	8,062
70300260	TEMPORARY PAVEMENT MARKING, LINE 8"	FOOT	230
70300280	TEMPORARY PAVEMENT MARKING, LINE 12"	FOOT	420
* 78000100	TEMPORARY PAVEMENT MARKING, LINE 24"	FOOT	39
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	156
* 78000500	THERMOPLASTIC PAVEMENT MARKING, LINE 4"	FOOT	8,062
* 78000600	THERMOPLASTIC PAVEMENT MARKING, LINE 8"	FOOT	230
* 78000650	THERMOPLASTIC PAVEMENT MARKING, LINE 12"	FOOT	420
	THERMOPLASTIC PAVEMENT MARKING, LINE 24"	FOOT	39
X0325404	INLET MANHOLE, 5' DIA., TYPE G-1, DOUBLE, SPECIAL	EACH	1
X2080250	TRENCH BACKFILL, SPECIAL	CU YD	912
X3113000	SUB-BASE GRANULAR MATERIAL (SPECIAL)	SQ YD	8,436
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	153
XX000856	MAILBOX REMOVAL AND RELOCATION	EACH	1
XX006499	INLET MANHOLE, 5' DIA., TYPE G-1	EACH	5

* CONSIDERED TO BE SPECIALITY ITEMS

00-112 INCHES (REVISIONS OF QUANTITIES)

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DESIGNED	WFS	REVISED
DRAWN	DE-I	REVISED
CHECKED	WFS	REVISED
DATE	10-28-10	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STREET IMPROVEMENTS EAST JEFFERSON STREET MORTON, ILLINOIS
SUMMARY OF QUANTITIES

SCALE: AS NOTED SHEET NO. 3 OF 20 SHEETS STA. TO STA.

F.A. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6721	07-00116-01-FF	TAZEWELL	20	3
ILLINOIS FEDERAL ROAD DIST NO. 7			CONTRACT NO.	89490