

ROUTE	SECTION	COUNTY	TOWNSHIP	TOTAL SHEETS	SHEET NUMBER
FAS 1918	06-00144-00-WR	JACKSON	MAKANDA	91	2
JOB NO. C-99-579-06			PROJECT NO. SR-1918(106)		
BOSKYDELL ROAD			CONTRACT NO. 99338		

SUMMARY OF QUANTITIES
CONSTRUCTION TYPE CODE 0004

PAY ITEM NO.	ITEM	UNIT	QUANTITY
XX002518	CMP TEE 15"	EACH	3
* XX002063	LIGHTING SYSTEM COMPLETE	L SUM	1
* XX006348	ELECTRIC SERVICE	L SUM	1
XX006653	FENCE (SPECIAL)	FOOT	506
X0358300	REMOVE AND RELAY END SECTIONS	EACH	2
X2500900	SEEDING, CLASS 1 (SPECIAL)	ACRE	22.5
X2520700	SODDING, SPECIAL	SQ YD	280
X6024809	INLETS, TYPE C, SPECIAL	EACH	4
X6060078	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24 (SPECIAL)	FOOT	1,140
X6060340	GUTTER OUTLET (SPECIAL)	EACH	6
X6061460	PAVED DITCH (SPECIAL)	FOOT	50
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
* Z0007601	BUILDING REMOVAL NO. 1	L SUM	1
* Z0007602	BUILDING REMOVAL NO.2	L SUM	1
* Z0049801	REMOVAL AND DISPOSAL OF FRIABLE ASBESTOS, BUILDING NO. 1	L SUM	1
* Z0049802	REMOVAL AND DISPOSAL OF FRIABLE ASBESTOS, BUILDING NO. 2	L SUM	1
* Z0049901	REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 1	L SUM	1
* Z0049902	REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 2	L SUM	1
Δ Z0076600	TRAINEES	hour	1,000
* LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	1
20100110	TREE REMOVAL (6-15 UNITS DIAMETER)	UNIT	489
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	1,742
20100500	TREE REMOVAL, ACRES	ACRE	3.65
20200100	EARTH EXCAVATION	CU YD	68,000
20400100	BORROW EXCAVATION	CU YD	8,000
20700110	POROUS GRANULAR EMBANKMENT	TON	115
20800150	TRENCH BACKFILL	CU YD	2,430
25100630	EROSION CONTROL BLANKET	SQ YD	17,040
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	4,500
28000305	TEMPORARY DITCH CHECKS	FOOT	2,740
28000400	PERIMETER EROSION BARRIER	FOOT	8,915
28000500	INLET AND PIPE PROTECTION	EACH	62
28100805	STONE DUMPED RIPRAP, CLASS A3	TON	495
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	622
35100100	AGGREGATE BASE COURSE, TYPE A	TON	11,250

*SPECIALTY ITEMS
Δ 0042

PAY ITEM NO.	ITEM	UNIT	QUANTITY
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	1,150
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	750
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	7,700
40600300	AGGREGATE (PRIME COAT)	TON	105
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	7,600
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	3,200
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	547
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	502
48100100	AGGREGATE SHOULDERS, TYPE A	TON	1,550
48203100	HOT-MIX ASPHALT SHOULDERS	TON	3,200
50102400	CONCRETE REMOVAL	CU YD	10.3
50105220	PIPE CULVERT REMOVAL	FOOT	1,765
50800105	REINFORCEMENT BARS	POUND	11,730
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	130
54002060	EXPANSION BOLTS 3/4 INCH X 12 INCH	EACH	82
54003000	CONCRETE BOX CULVERTS	CU YD	89.3
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	196
542A1075	PIPE CULVERTS, CLASS A, TYPE 2 30"	FOOT	57
542A1081	PIPE CULVERTS, CLASS A, TYPE 2 36"	FOOT	193
542A1105	PIPE CULVERTS, CLASS A, TYPE 2 60"	FOOT	72
542A2755	PIPE CULVERTS, CLASS A, TYPE 4 30"	FOOT	145
542A2767	PIPE CULVERTS, CLASS A, TYPE 4 42"	FOOT	158
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	1,402
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	175
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	103
542D5503	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 48"	FOOT	144
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	3
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	2
54213687	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"	EACH	2
54213705	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 60"	EACH	2
54215547	METAL END SECTIONS 12"	EACH	1
54215550	METAL END SECTIONS 15"	EACH	61
54215553	METAL END SECTIONS 18"	EACH	8

PAY ITEM NO.	ITEM	UNIT	QUANTITY
54215559	METAL END SECTIONS 24"	EACH	5
54215793	METAL END SECTIONS, EQUIVALENT ROUND-SIZE 48"	EACH	8
54215991	REINFORCED CONCRETE PIPE ELBOW 36"	EACH	2
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	1
54248510	CONCRETE COLLAR	CU YD	30
550B0060	STORM SEWERS, CLASS B, TYPE 1 14"	FOOT	452
550B0090	STORM SEWERS, CLASS B, TYPE 1 18"	FOOT	164
550B0120	STORM SEWERS, CLASS B, TYPE 1 24"	FOOT	60
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	6
60500060	REMOVING INLETS	EACH	1
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1,418
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A 6 FOOT POSTS	FOOT	78
* 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1
63200310	GUARDRAIL REMOVAL	FOOT	152
66501800	WOVEN WIRE GATES, 4' X 20' DOUBLE	EACH	1
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	128
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	24
67100100	MOBILIZATION	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	5,450
70300220	TEMPORARY PAVEMENT MARKING-LINE 4"	FOOT	13,220
72000100	SIGN PANEL-TYPE 1	SQ FT	76
72400500	RELOCATE SIGN PANEL ASSEMBLY-TYPE A	EACH	22
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	160
* 78001110	PAINT PAVEMENT MARKING-LINE 4"	FOOT	33,774
* 78001180	PAINT PAVEMENT MARKING-LINE 24"	FOOT	67
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	141
* 78201000	TERMINAL MARKER-DIRECT APPLIED	EACH	4

PROJECT BENCHMARK LIST:

B.M. NO. 1 - TOP OF 3" DIA. ALUMINUM POST MONUMENT W/ ALUMINUM CAP STAMPED "4054" ±20' NORTH OF CENTERLINE OF BOSKYDELL ROAD AND ±75' EAST OF CENTERLINE OF SPRINGER RIDGE ROAD, LOCATED 19.5' LEFT OF CENTERLINE OF IMPROVEMENT AT STA. 2+02. (ELEV. - 438.01)

B.M. NO. 2 - TOP OF 3" DIA. ALUMINUM POST MONUMENT W/ ALUMINUM CAP STAMPED "4053" ±35' SOUTH OF CENTERLINE OF BOSKYDELL ROAD AND ±40' EAST OF CENTERLINE OF INDIAN CREEK ROAD, LOCATED 35' RIGHT OF CENTERLINE OF IMPROVEMENT AT STA. 43+23. (ELEV. - 402.66)

B.M. NO. 3 - TOP OF 3" DIA. ALUMINUM POST MONUMENT W/ ALUMINUM CAP STAMPED "4052" ±26' NORTH OF CENTERLINE OF BOSKYDELL ROAD AND ±73' WEST OF INDIAN HILLS DRIVE, LOCATED 26' LEFT OF CENTERLINE OF IMPROVEMENT AT STA. 59+73 (ELEV. - 460.28)

B.M. NO. 4 - TOP OF 3" DIA. ALUMINUM POST MONUMENT W/ ALUMINUM CAP STAMPED "4051" ±25' NORTH OF CENTERLINE OF BOSKYDELL ROAD AND ±34' WEST OF CENTERLINE OF BRANSON WOODS ROAD, LOCATED 25' LEFT OF CENTERLINE OF IMPROVEMENT AT STA. 94+06. (ELEV. - 501.29)

B.M. NO. 5 - TOP OF 3" DIA. ALUMINUM POST MONUMENT W/ ALUMINUM CAP STAMPED "4050" ±150' NORTH OF CENTERLINE OF BOSKYDELL ROAD AND ±25' EAST OF CENTERLINE OF GIANT CITY ROAD, LOCATED 149' LEFT OF CENTERLINE OF IMPROVEMENT AT STA. 111+61. (ELEV. - 484.94)

NOTE TO CONTRACTOR:
PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN ORDER TO MAKE ARRANGEMENTS FOR THE TRANSFER OF BENCHMARK DATA FROM BENCHMARKS NO. 1, 3 AND 4 TO A SUITABLE LOCATION BEYOND THE AREA OF CONSTRUCTION.

STRUCTURAL DESIGN DATA - BOSKYDELL ROAD

STRUCTURAL DESIGN TRAFFIC:	YEAR 2022
PV =	1.338 SU = 106 MU = 76
ROAD/STREET CLASSIFICATION:	CLASS III
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:	
P =	50% S = 50% M = 50%
TRAFFIC FACTOR:	Actual TF = 0.33148 AC TYPE = _____
	Minimum TF = _____
PG GRADE:	Binder = 64-22 Surface = 64-22
SUBGRADE SUPPORT RATING:	
IBR =	4.8 (Sta. 16+15)
IBR =	2.6 (Sta. 78+50)