

**EARTHWORK SCHEDULE**

LOCATION	DESCRIPTION	1		2		3		4		5		6		7		8		9		10		11	
		THEORETICAL		TOPSOIL ADJUSTMENT		TOPSOIL PLACEMENT		ADJUSTED EARTHWORK		TOPSOIL EXCAVATION AND PLACEMENT		EXCESS (BORROW)		CUMULATIVE EXCESS (BORROW)									
		CUT	FILL	4" CUT	4" FILL	4" CUT	4" FILL	CUT	FILL	FILL x 1.25	CUT	FILL	CUT	FILL	CUT	FILL							
CH 19	150+00 TO 165+00	7,025	19,909	N/A	N/A	N/A	7,025	19,909	24,886	N/A	(17,861)	(17,861)											
	165+00 TO 180+00	40,670	1,356	N/A	N/A	N/A	40,670	1,356	1,695	N/A	38,975	21,114											
	180+00 TO 186+25	1,321	1,508	N/A	N/A	N/A	1,321	1,508	1,885	N/A	(564)	20,550											
E STRAWN CROSSING RD (CH 2)		19,650	10,475	N/A	N/A	N/A	19,650	10,475	13,094	N/A	6,556	27,106											
JOHNSON RD (TR 306)		134	235	N/A	N/A	N/A	134	235	294	N/A	(160)	26,946											
<b>TOTAL</b>		<b>68,800</b>	<b>33,483</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>68,800</b>	<b>33,483</b>	<b>41,854</b>	<b>N/A</b>	<b>26,946</b>	<b>77,855</b>											

PIPE CULVERT REMOVAL				
STATION	SIDE	DIAMETER	TYPE	FOOT
<b>LITERBERRY-PRENTICE ROAD (CH 19)</b>				
177+15	LEFT	15"	PCC	54.0
181+50	LEFT	12"	CMP	25.0
183+30	LEFT	15"	CMP	30.0
<b>EAST STRAWNS CROSSING ROAD (CH 2)</b>				
42+00	RIGHT & LEFT	15"	CMP	48.0
46+42	RIGHT	12"	CMP	20.0
47+34	RIGHT & LEFT	18"	CMP	42.0
<b>TOTALS</b>				<b>219.0</b>
<b>USE</b>				<b>219</b>

**NOTES:**

A MASS DIAGRAM FOR THE EARTHWORK IS NOT INCLUDED IN THESE PLANS AND WILL NOT BE AVAILABLE TO THE CONTRACTOR UPON REQUEST. THE EARTHWORK SCHEDULE HAS BEEN INCLUDED IN THESE PLANS TO TAKE THE PLACE OF THE NEED FOR A MASS DIAGRAM. THE SCHEDULE GIVES QUANTITIES IN "COLUMN 10" FOR EXCESS EXCAVATION OR BORROW REQUIRED IN EACH SPECIFIED AREA ALONG THE LIMITS OF THE PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE REQUIRED HAUL DISTANCES AND QUANTITIES FROM THE INFORMATION SHOWN.

THE QUANTITIES SHOWN IN THE SCHEDULE INCLUDE ALL MAINLINE, SIDE ROAD, AND ENTRANCE QUANTITIES IN EACH SPECIFIED AREA.

QUANTITIES FOR THE DEGRADING OF EXISTING CONDITIONS HAVE BEEN INCLUDED IN THE APPROXIMATE STATION RANGE WHERE SUCH DEGRADING TAKES PLACE.

A SHRINKAGE FACTOR OF 20% WAS USED TO DETERMINE THE EXCESS AND BORROW QUANTITIES. SHRINKAGE FACTOR = 1.00/(1.00-0.20) = 1.0/0.80 = 1.25

COLUMN 5 = (COLUMN 3 + COLUMN 4) x 9  
 COLUMN 6 = COLUMN 1 + COLUMN 3  
 COLUMN 7 = COLUMN 2 - COLUMN 4  
 COLUMN 8 = COLUMN 7 x 1.25 (SHRINKAGE FACTOR)  
 COLUMN 9 = (COLUMN 3 + COLUMN 4) x 1.00 (SHRINKAGE FACTOR)  
 COLUMN 10 = COLUMN 6 - COLUMN 8 - COLUMN 9

EARTH EXCAVATION = COLUMN 6 - COLUMN 9  
 (PAY ITEM QUANTITY) = 68,800 CU YD

GUARDRAIL & APPURTENANCES					
STATION TO STATION	SIDE	STEEL PLATE BEAM GUARDRAIL, TYPE A	TYPE 1, SPECIAL (TANGENT)	TYPE 5	TERMINAL MARKER DIRECT APPLIED
		FOOT	EACH	EACH	EACH
154+34.15 TO 159+84.90	RIGHT	487.5	1	1	1
156+00.05 TO 159+63.90	LEFT	312.5	1	1	1
162+07.48 TO 165+70.73	LEFT	300.0	1	1	1
162+28.43 TO 165+29.23	RIGHT	250.0	1	1	1
<b>TOTALS</b>		<b>1,350.0</b>	<b>4</b>	<b>4</b>	<b>4</b>
<b>USE</b>		<b>1,350</b>	<b>4</b>	<b>4</b>	<b>4</b>

AGGREGATE SHOULDERS, TYPE A				
STATION TO STATION	SIDE	LENGTH	END AREA SQ FT	TON
<b>LITERBERRY-PRENTICE ROAD (CH 19)</b>				
150+50	RIGHT	43.0'	2.1	7.0
151+33	RIGHT	79.0'	2.1	12.8
152+52	RIGHT	182.15'	2.1	29.5
154+34.15	RIGHT	550.75'	3.2	133.8
162+28.68	RIGHT	300.55'	3.2	73.0
165+29.23	RIGHT	369.28'	2.1	59.7
170+76.63	RIGHT	953.37'	2.1	154.2
180+70	RIGHT	555.0'	2.1	89.7
150+50	LEFT	165.0'	2.1	26.7
152+55	LEFT	345.65'	2.1	55.9
156+00.65	LEFT	363.25'	3.2	88.3
162+07.48	LEFT	363.3	3.2	88.3
165+70.73	LEFT	9.27'	2.1	1.5
166+20	LEFT	920.0'	2.1	148.8
175+80	LEFT	432.97'	2.1	70.0
180+87.03	LEFT	227.97'	2.1	36.9
183+55	LEFT	270.0'	2.1	43.7
<b>NW &amp; NE RETURNS @ JOHNSON ROAD</b>				
180+12.97	LEFT	41.11'	2.1	6.6
180+12.97	RIGHT	41.11'	2.1	6.6
<b>EAST STRAWNS CROSSING ROAD (CH 2)</b>				
37+04	RIGHT	917.0'	2.1	148.3
46+62	RIGHT	784.11'	2.1	126.8
37+05	LEFT	1,717.03'	2.1	277.7
<b>SW RETURN @ EAST STRAWNS CROSSING ROAD (CH 2)</b>				
54+22.03	LEFT	109.27'	2.1	17.7
<b>SW RETURN @ EAST STRAWNS CROSSING ROAD (CH 2)</b>				
54+46.11	RIGHT	123.33'	2.1	19.9
<b>TOTAL</b>				<b>1,723.4</b>
<b>USE</b>				<b>1724</b>

ENTRANCE PAVEMENT SCHEDULE					
STATION	SIDE	AGGREGATE SURFACE COURSE, TYPE B	AGGREGATE BASE COURSE, TYPE A	INCIDENTAL BITUMINOUS SURFACING, (2")	BITUMINOUS MATERIALS (PRIME COAT)
		TON	TON	TON	GALLON
<b>LITERBERRY-PRENTICE ROAD (CH 19)</b>					
151+13	RIGHT	21.8			
152+32	RIGHT	29.8	22.8	7.0	21.2
152+35	LEFT	22.1			
166+00	LEFT	65.6			
175+60	LEFT	78.8	22.8	7.0	21.2
180+50	RIGHT	26.9			
183+35	LEFT	29.8	22.8	7.0	21.2
<b>EAST STRAWNS CROSSING ROAD (CH 2)</b>					
46+42	RIGHT	46.3			
53+65	LEFT	72.3			
<b>TOTALS</b>		<b>393.4</b>	<b>68.4</b>	<b>21.0</b>	<b>63.6</b>
<b>USE</b>		<b>394</b>	<b>69</b>	<b>21</b>	<b>64</b>

TREE REMOVAL/DIAMETER				
STATION	OFFSET FOOT	SIDE	6 TO 15 UNITS DIA	OVER 15 UNITS DIA
<b>LITERBERRY-PRENTICE ROAD (CH 19)</b>				
152+65	30	RIGHT	10	
153+92	34	LEFT	6	
153+92	34	LEFT	6 & 10	
154+07		LEFT	6 & 8	
154+14	33	LEFT	6	24
154+22	33	LEFT		
154+27	35	RIGHT	2-6 & 8	
154+48	34	LEFT	3-8	
154+75	31	LEFT		29
154+90	33	LEFT	10	
158+53	47	RIGHT		20
158+58	46	RIGHT	9	
<b>EAST STRAWNS CROSSING ROAD (CH 2)</b>				
41+05	24	LEFT	12	
42+76	25	LEFT	8 & 10	
43+73	62	RIGHT	8	
44+73	60	RIGHT	12	
44+98	55	RIGHT	12	
45+27	48	RIGHT	10	
<b>TOTALS</b>			<b>187</b>	<b>73</b>
<b>USE</b>			<b>187</b>	<b>73</b>

TREE REMOVAL/ACRE				
STATION TO STATION	SIDE	AVERAGE WIDTH FEET	LENGTH FEET	ACRES
<b>LITERBERRY-PRENTICE ROAD (CH 19)</b>				
155+00 TO 158+00	LEFT	15	300	0.10
158+00 TO 159+00	LEFT	35	100	0.08
159+00 TO 160+27	LEFT	50	127	0.15
159+30 TO 161+00	RIGHT	30	170	0.12
<b>EAST STRAWNS CROSSING ROAD (CH 2)</b>				
50+00 TO 50+65	LEFT	70	65	0.10
<b>TOTAL</b>				<b>0.55</b>
<b>USE</b>				<b>0.6</b>

PIPE CULVERT SCHEDULE									
STATION	SIDE	TYPE	STANDARD	CS/A		RCCP		END SECTIONS	
				18" TY 1	18" TY 2	24" TY 2	48" TY 4	24"	48"
<b>LITERBERRY-PRENTICE ROAD (CH 19)</b>									
151+13	RIGHT	PIPE CULVERT		38.0					
152+32	RIGHT	PIPE CULVERT		38.0					
152+35	LEFT	PIPE CULVERT		42.0					
166+00	LEFT	PIPE CULVERT			58.0				
175+60	LEFT	PIPE CULVERT			72.0				
180+50	LEFT	PIPE CULVERT			72.0				
180+50	RIGHT	PIPE CULVERT		44.0					
183+35	LEFT	PIPE CULVERT		48.0					
<b>EAST STRAWNS CROSSING ROAD (CH 2)</b>									
42+15	RIGHT & LEFT	PIPE CULVERT	542301			48.0		2	
46+42	RIGHT	PIPE CULVERT			52.0				
50+45	RIGHT & LEFT	PIPE CULVERT	542301			128.0		1	
<b>TOTALS</b>				<b>210.0</b>	<b>254.0</b>	<b>48.0</b>	<b>128.0</b>	<b>2</b>	<b>1</b>
<b>USE</b>				<b>210</b>	<b>254</b>	<b>48</b>	<b>128</b>	<b>2</b>	<b>1</b>

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SCHEDULES OF QUANTITIES**

SCALE: DATE FEBRUARY, 2002 DRAWN BY JCG CHECKED BY JRB