

SUMMARY OF EARTHWORK- LINDGREN ROAD							
STATION	TOPSOIL			EARTH			
	EXCAVATION	PLACEMENT	BALANCE WASTE (+) OR SHORTAGE (-)	EXCAVATION	PLACEMENT	BALANCE WASTE (+) OR SHORTAGE (-)	ESTIMATED UNSUITABLE (UNDERCUT)
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
	A	B	C = A - B	D	E	F = D(1-S.F.)-E	G
36+00							
36+50	241.9	15.7	226.20	6.57	89.54	-84.61	250.00
37+00	291.7	36.7	255.00	124.81	26.76	+66.85	
37+50	308.6	43.7	264.91	366.48	7.59	+267.27	( NOM. QTY. )
38+00	186.5	44.8	141.67	627.13	3.70	+466.65	
38+50	56.6	43.6	12.96	640.28	0.00	+480.21	
39+00	55.9	28.1	27.87	384.54	0.00	+288.41	
39+50	55.3	26.3	28.98	237.50	0.00	+178.13	
40+00	55.0	40.4	14.63	190.19	0.37	+142.27	
40+50	196.9	39.9	156.94	87.78	105.09	-39.26	
41+00	297.6	27.1	270.46	12.13	215.74	-206.64	
41+11.46	58.5	3.5	55.01	0.04	51.55	-51.52	
41+33.00	54.8	3.3	51.50	0.00	49.06	-49.06	
SUB-TOTAL	1,859	353	1,506	2,677	549	1,459	250

SUMMARY OF EARTHWORK- NATIONAL STREET							
STATION	TOPSOIL			EARTH			
	EXCAVATION	PLACEMENT	BALANCE WASTE (+) OR SHORTAGE (-)	EXCAVATION	PLACEMENT	BALANCE WASTE (+) OR SHORTAGE (-)	ESTIMATED UNSUITABLE (UNDERCUT)
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
	A	B	C = A - B	D	E	F = D(1-S.F.)-E	G
1+80.00							
2+00.00	2.4	2.3	0.1	25.81	0.00	+19.36	80.00
2+50.00	28.8	11.7	17.1	69.26	9.63	+42.32	
3+00.00	56.1	20.2	35.9	54.63	9.72	+31.25	( NOM. QTY. )
3+50.00	67.1	29.0	38.2	132.50	0.09	+99.29	
4+00.00	68.5	30.7	37.9	184.72	0.00	+138.54	
4+50.00	54.0	15.9	38.1	127.96	0.00	+95.97	
4+80.00	48.3	0.0	48.3	16.72	9.89	+2.65	
SUB-TOTAL	325	110	216	612	29	429	80

SUMMARY OF EARTHWORK- PLANK ROAD							
STATION	TOPSOIL			EARTH			
	EXCAVATION	PLACEMENT	BALANCE WASTE (+) OR SHORTAGE (-)	EXCAVATION	PLACEMENT	BALANCE WASTE (+) OR SHORTAGE (-)	ESTIMATED UNSUITABLE (UNDERCUT)
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
	A	B	C = A - B	D	E	F = D(1-S.F.)-E	G
294+21							
294+50	5.4	5.4	0.05	9.40	2.69	+4.36	110.00
295+00	6.7	11.3	-4.63	52.96	12.31	+27.41	
295+50	11.3	18.9	-7.59	95.00	12.87	+58.38	( NOM. QTY. )
296+00	21.0	23.1	-2.04	81.57	5.28	+55.90	
296+50	24.3	22.5	1.76	56.11	6.76	+35.32	
297+00	24.3	20.1	4.17	42.69	13.61	+18.41	
297+50	24.3	17.6	6.67	26.85	23.98	-3.84	
298+00	24.3	15.3	8.98	18.61	29.07	-15.11	
298+50	24.3	14.4	9.91	18.98	25.19	-10.96	
299+00	24.3	14.4	9.82	25.74	17.04	+2.27	
299+50	24.3	14.4	9.82	31.02	11.76	+11.51	
300+00	72.4	19.4	53.06	17.13	46.11	-33.26	
300+50	60.3	12.1	48.15	17.13	44.07	-31.22	
301+00	0.0	0.0	0.00	34.63	5.65	+20.32	
301+50	16.7	8.8	7.87	41.76	8.98	+22.34	
302+00	27.3	17.3	10.00	30.19	10.19	+12.45	
SUB-TOTAL	391	235	156	600	276	174	110

TOTAL EARTHWORK					
LOCATION	20200100	20201200	20400800	21101505	20700420
	EARTH EXCAVATION (CU YD)	REM. & DISP. OF UNSUIT. MATERIAL (CU YD)	FURNISHED EXCAVATION (CU YD)	TOPSOIL FURN. & PLACEMENT (CY YD)	POROUS GRANULAR EMBANKMENT (CU YD)
	TOTAL D	TOTAL (C + G)	NONE	TOTAL B	TOTAL G
LINDGREN RD	2,677	1,756	0	353	250
NATIONAL ST	612	296	0	110	80
PLANK RD	600	266	0	235	110
TOTAL	3,889	2,318	0	698	440

**EARTHWORK GENERAL NOTES**

ALL EARTHWORK QUANTITIES ARE CALCULATED BY THE METHOD OF AVERAGE END AREAS USING THE PLAN CROSS SECTIONS. SHRINKAGE FACTOR, ASSUMED TO BE 25% FOR THIS PROJECT, ARE ESTIMATED FOR THE SOLE PURPOSE OF DETERMINING A BALANCE OF EARTHWORK. THE CONTRACTOR SHALL ESTIMATE HIS OWN SHRINKAGE FACTORS IN DETERMINING HIS EARTHWORK. NO PAYMENT WILL BE MADE ON EARTHWORK QUANTITIES DUE TO VARIATION IN THE SHRINKAGE FACTOR SINCE EARTHWORK IS MEASURED IN ITS FINAL POSITION.

IN ADDITION TO NUCLEAR DENSITY TESTING OF EMBANKMENTS AND SUBGRADES, THE FINAL SHALL BE PROOF ROLLED USING A FULLY LOADED SEMI TRUCK. THE PROOF-ROLL SHOULD DEMONSTRATE A MAXIMUM ONE-QUARTER (1/4) INCH DEFLECTION AT TOP OF SUBGRADE LEVEL. THE NUMBER OF PROOF ROLLS AS REQUIRED BY THE ENGINEER SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

TEMPORARY EARTH STOCKPILES WILL NOT BE ALLOWED ON THE ADJACENT PROPERTIES WITHOUT THE PERMISSION OF THE OWNER AND APPROVAL OF THE CITY. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE PERMISSION FROM THE APPROPRIATE OWNER PRIOR TO STOCK PILING ANY MATERIALS ON THOSE PROPERTIES. IF THIS SPACE IS NOT AVAILABLE, THE CONTRACTOR SHALL MAKE OTHER PROVISIONS FOR HANDLING THESE MATERIALS DURING CONSTRUCTION OPERATIONS.

EARTH EXCAVATION AND EMBANKMENT SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING OR SEQUENCING OF CONTRACTORS OPERATIONS THAT REQUIRE STOCKPILING OF MATERIALS FOR LATER USE, REDISTRIBUTION AND RESREADING IN SHOULDERS AND CONSTRUCTING OF EMBANKMENTS.

THE EMBANKMENT SHALL BE CONSTRUCTED ACCORDING TO SECTION 205 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE EMBANKMENT MATERIAL SHALL NOT BE PLACED AND COMPACTED AT MOISTURE CONTENTS IN EXCESS OF 110% OF THE MINIMUM MOISTURE UNLESS AUTHORIZED IN WRITING BY THE ENGINEER.

SUMMARY OF DITCH GRADING AND SHAPING		
STATION	TOPSOIL EXCAVATION AND PLACEMENT (CU YD)	EARTH EXCAVATION (CU YD)
OLD LINDGREN ROAD (LT)	A	B
24+50		
25+00	14.6	49.44
25+50	17.2	44.44
26+00	20.3	42.04
26+50	21.5	46.39
27+00	23.1	56.11
27+50	24.4	70.19
28+00	25.7	81.30
28+50	26.9	92.50
29+00	28.2	104.44
29+50	29.4	113.43
30+00	30.2	117.41
30+50	29.9	115.74
30+60	2.9	11.33
31+60		
32+00	9.3	22.30
32+50	22.6	51.76
33+00	22.0	46.48
33+50	21.3	61.48
34+00	19.9	55.65
34+50	16.2	24.07
35+00	11.3	11.76
35+50	8.1	6.85
SUB-TOTAL	425	1,225

SUMMARY OF DITCH GRADING AND SHAPING		
STATION	TOPSOIL EXCAVATION AND PLACEMENT (CU YD)	EARTH EXCAVATION (CU YD)
LINDGREN RD (LT / RT)	A	B
41+66		
42+00	15.9	33.50
42+50	23.4	50.28
43+00	23.6	52.13
43+50	23.2	51.39
44+00	20.0	39.07
44+50	16.0	24.26
45+00	13.7	16.94
45+50	12.1	12.31
46+00	10.0	11.76
46+50	8.1	11.11
47+00	6.2	6.67
47+50	4.6	3.33
48+00	6.0	6.30
48+50	7.7	5.93
SUB-TOTAL	191	325

**GRADING AND SHAPING DITCHES GENERAL NOTES**

GRADING AND SHAPING SHOULDERS WILL BE PAID FOR (PER LINEAR FOOT. EARTH AND TOPSOIL EXCAVATION VOLUMES SHOWN ON THESE TABLES ARE ESTIMATES AND ARE NOT INCLUDED OR FACTORED INTO THE EARTHWORK QUANTITIES.

FILE NAME = P:\CIBBEL WEST Projects\2009\09-0049 Lindgren Rd\Civil\Drawings\SCHEDULE.EWD.dgn



USER NAME = #USER#	DESIGNED - KMA	REVISED -
PLOT SCALE = NONE	DRAWN - NDP	REVISED -
PLOT DATE = 10/28/2009	CHECKED - SBP	REVISED -
	DATE - 10/1/09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EARTHWORK SCHEDULE**

SCALE: NONE	SHEET NO. 11 OF 54 SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5369	09-00068-00-FP	DEKALB	54	11
CONTRACT NO. 87406				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				