

FRA-71-17.22, PID 123987 QUANTITY TABLE

DESCRIPTION	203	203	203	203	659	659	659	659	659	659	659	659	659	659
	EXCAVATION	EMBANKMENT	BORROW, A.P.P	EMBANKMENT, A.P.P	SOIL ANALYSIS TEST	TOPSOIL	REPAIR SEEDING AND MULCHING	INTERSEEDING	COMMERCIAL FERTILIZER	LIME	WATER	SEEDING AND MULCHING, CLASS 1	SEEDING AND MULCHING, CLASS 3A	MOWING
	CY	CY	CY	CY	EA	CY	SY	SY	TON	ACRES	M. GAL	SY	SY	M. SF
TOTAL EARTHWORK	14574	770	0	0										
TOTAL SEEDING AND MULCHING					1	830	374	374	3	2	46	0	7481	0.02
TOTALS CARRIED TO GENERAL SUMMARY SHEETS	14574	770	0	0	1	830	374	374	3	2	46	0	7481	0.02

FRA-71-17.22, PID 123987, Earthworks Summary Sheet

Roadway	203 - EARTH- C.Y.		659 - Seeding - S.Y.	COMMENTS
	COMMON EXCAVATION	EMBANKMENT	SEEDING AND MULCHING, CLASS 3A	
ODOT Freeway / City Roads				
Ramp Y	14,134	502	6,698	
E. Main St.	440	268	783	
RDWY. TOTALS	14,574	770	7,481	
GRAND TOTAL	14,574	770	7,481	

SEEDING AND MULCHING CALCULATIONS

ITEM 659 - TOPSOIL (CY)

TOPSOIL = PERMANENT SEEDED AREA (SY) x 111 CY TOPSOIL/1000 SY PERMANENT SEEDED AREA

$$7481 \times 111 \text{ CY} / 1000 \text{ SY} = 830 \text{ CY}$$

ITEM 659 - SOIL ANALYSIS TEST (EA)

ONE TEST PER 10,000 CY OF TOPSOIL

$$830 / 10000 \text{ CY} = 1 \text{ EA}$$

ITEM 659 - REPAIR SEEDING AND MULCHING (SY)

REPAIR SEEDING AND MULCHING = 5% OF PERMANENT SEEDED AREA (SY)

$$7481 \times 0.05 = 374 \text{ SY}$$

ITEM 659 - INTERSEEDING (SY)

INTERSEEDING = 5% OF PERMANENT SEEDED AREA (SY)

$$7481 \times 0.05 = 374 \text{ SY}$$

ITEM 659 - COMMERCIAL FERTILIZER (TON)

1 Ton per 7410 Sq. Yd of Permanent seeding area

$$7481 / 7410 \text{ S.Y.} = 2 \text{ Ton}$$

1 Ton per 11112 Sq. Yd of INTER- SEEDED AREA

$$374 / 11112 \text{ S.Y.} = 1 \text{ TON}$$

TOTAL COMMERCIAL FERTILIZER = **3** TON

ITEM 659 - LIME (ACRE)

LIME = PERMANENT SEEDED AREA (SY) x 9 / (43560 S.F. per Acre)

$$7481 \times 9 / 43560 = 2 \text{ ACRE}$$

ITEM 659 - WATER (M. GAL)

WATER = PERMANENT SEEDED AREA (SY) x 0.0027 M GAL x 2 APPLICATIONS

$$7481 \times 0.0027 = 42 \text{ M. GAL}$$

WATER = INTER-SEEDED AREA (SY) x 0.0027 M GAL x 2 APPLICATIONS

$$374 \times 0.0027 = 4 \text{ M. GAL}$$

TOTAL WATER = **46** M. GAL

ITEM 659 - MOWING (M. SF)

MOWING = 0.25 x PERMANENT SEEDED AREA (SY) x 9/1000000 x 2 times

$$7481 \times ((0.25 \times 9) / 1 \text{ M}) \times 2 = 0.02 \text{ M.S.F.}$$

FRA-71-17.22, PID 123987, I-71SB to E. Main Street Exit Ramp (Ramp Y)

STATION	SEEDING WIDTH	SEEDING AREA	CUT - END AREA	FILL - END AREA	CUT - UNADJUSTED VOLUME	FILL - UNADJUSTED VOL.
	FT	SY	SF	SF	CY	CY
	659 SEEDING AND MULCHING, CLASS 3A	659 SEEDING AND MULCHING, CLASS 3A	203 EXCAVATION (ROADWAY)	203 EMBANKMENT (ROADWAY)	203 EXCAVATION (ROADWAY)	203 EMBANKMENT (ROADWAY)
50+06.68	145.54	0.00	193.56	116.63	0.00	0.00
50+50.00	79.77	542.25	128.70	30.11	258.52	117.71
51+00.00	47.30	352.97	95.31	17.61	207.42	44.18
51+50.00	58.12	292.83	122.36	7.48	201.55	23.23
52+00.00	73.84	366.56	341.70	6.67	429.69	13.11
52+50.00	90.74	457.17	565.62	15.90	840.11	20.90
53+00.00	76.11	463.47	716.92	19.26	1187.53	32.56
53+50.00	73.92	416.75	802.58	15.89	1406.94	32.55
54+00.00	67.51	392.86	793.24	8.86	1477.61	22.92
54+50.00	68.56	377.97	737.76	2.58	1417.60	10.59
55+00.00	60.06	357.28	690.73	0.21	1322.68	2.58
55+50.00	66.61	351.86	581.31	28.05	1177.81	26.16
56+00.00	61.16	354.92	389.94	9.94	899.31	35.17
56+50.00	62.52	343.56	295.08	6.12	634.28	14.86
57+00.00	64.98	354.17	175.80	7.94	436.00	13.01
57+50.00	4.23	192.25	38.85	8.17	198.75	14.91
58+00.00	3.91	22.61	36.90	18.96	70.14	25.12
58+50.00	4.23	22.61	50.04	8.34	80.50	25.28
59+00.00	4.23	23.50	58.85	5.88	100.82	13.16
59+50.00	18.26	62.47	79.68	3.38	128.27	8.57
60+00.00	23.22	115.22	101.12	1.37	167.41	4.39
60+50.00	21.63	124.58	113.47	0.12	198.70	1.38
61+00.00	40.88	173.64	139.96	0.00	234.66	0.11
61+50.00	13.35	150.64	112.15	0.00	233.43	0.00
62+00.00	12.90	72.92	79.78	0.00	177.71	0.00
62+50.00	14.01	74.75	53.74	0.00	123.62	0.00
63+00.00	12.95	74.89	44.67	0.00	91.12	0.00
63+50.00	13.27	72.83	13.27	0.00	53.65	0.00
64+00.00	9.62	63.58	17.00	0.00	28.03	0.00
64+50.00	0.00	26.72	21.11	0.00	35.29	0.00
65+00.00	0.00	0.00	19.16	0.00	37.29	0.00
65+50.00	0.00	0.00	21.36	0.00	37.52	0.00
66+00.00	0.00	0.00	30.54	0.00	48.06	0.00
66+50.00	0.00	0.00	32.42	0.00	58.30	0.00
67+00.00	0.00	0.00	28.45	0.00	56.36	0.00
67+50.00	0.00	0.00	24.22	0.00	48.77	0.00
68+00.00	0.00	0.00	5.71	0.00	27.71	0.00
68+05.70	0.00	0.00	5.41	0.00	1.17	0.00
		6697.83			14134.30	502.47

(AH)

(BK)

FRA-71-17.22, PID 123987, E. Main Street

STATION	SEEDING WIDTH	SEEDING AREA	CUT - END AREA	FILL - END AREA	CUT - UNADJUSTED VOL.	FILL - UNADJUSTED VOL.	
	FT	SY	SF	SF	CY	CY	
	659 SEEDING AND MULCHING, CLASS 3A	659 SEEDING AND MULCHING, CLASS 3A	203 EXCAVATION (ROADWAY)	203 EMBANKMENT (ROADWAY)	203 EXCAVATION (ROADWAY)	203 EMBANKMENT (ROADWAY)	
27+25.00	0.00	0.00	0.00	0.00	0.00	0.00	(AH)
27+50.00	0.00	0.00	0.00	0.00	0.00	0.00	
28+00.00	0.00	0.00	0.00	0.00	0.00	0.00	
28+21.71	0.00	0.00	2.47	0.00	0.99	0.00	
28+50.00	8.68	13.64	1.89	10.60	2.28	5.55	
28+70.00	29.92	42.89	1.89	40.49	1.40	18.92	
29+00.00	38.13	113.42	3.30	40.32	2.88	44.89	
29+50.00	0.00	105.92	101.40	0.00	96.95	37.33	
30+00.00	14.13	39.25	71.75	0.00	160.33	0.00	
30+19.83	21.51	39.26	39.70	18.23	40.93	6.69	
30+50.00	23.54	75.51	32.08	23.31	40.10	23.21	
31+00.00	26.67	139.47	22.32	45.64	50.36	63.84	
31+50.00	8.05	96.44	1.87	11.62	22.39	53.01	
32+00.00	6.44	40.25	3.08	1.47	4.58	12.12	
32+50.00	5.85	34.14	4.46	0.49	6.98	1.81	
33+00.00	5.66	31.97	3.64	0.00	7.50	0.45	
33+18.16	5.45	11.21	3.70	0.05	2.47	0.02	
							(BK)
		783.37			440.13	267.87	