FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	F-329 (15)	

190
297

LAKE COUNTY
LAK-2-4.42

Sta. 24+31.66 Constr. ℄ S.R. 306 =
Sta. 0+04.69 ℄ Ramps M & N

SPIRAL DATA
P.I. Sta. 24+15.15
Δ_s = 4°49'00"
Δ_c = 3°00'00"
D_c = 3°00'00"
L_s = 200.00'
L_c = 160.56'
T_s = 280.89'
E_s = 9.41'

Survey
P.I. Sta. 24+50.00

Sta. 264+76.40 ℄ Reloc. S.R.2 =
Sta. 29+82.65 Constr. ℄ S.R.306

Sta. 265+00.00 ℄ Reloc. S.R.2
Sta. 30+00.00 Survey ℄ S.R. 306

Sta. 27+77.00 Survey ℄ S.R.306 =
Sta. 0+00.00 ℄ Clover Ave.

Sta. 35+00.00 Constr. ℄ S.R. 306 =
Sta. 9+34.46 Ramp O ℄

N

S.R. 306
Survey ℄

ROADWAY

RAMP O
CURVE DATA
P.I. Sta. 8+07.83
Δ = 27°49'20"
R = 350.00'
L = 169.96'
T = 86.69'
E = 10.58'

RAMP M
CURVE DATA
P.I. Sta. 11+67.79
Δ = 25° 51' 33"
R = 350.00'
L = 157.96'
T = 80.35'
E = 9.10'

M-2
CURVE DATA
P.I. Sta. 11+67.79
Δ = 25° 51' 33"
R = 350.00'
L = 157.96'
T = 80.35'
E = 9.10'

M-3
CURVE DATA
P.I. Sta. 9+92.65
Δ = 75° 00' 00"
R = 175.00'
L = 229.07'
T = 134.28'
E = 45.58'

RAMPS M&N
CURVE DATA
P.I. Sta. 7+54.14
Δ = 72° 45' 00"
R = 195.50'
L = 248.23'
T = 144.00'
E = 47.31'

M-1
CURVE DATA
P.I. Sta. 13+54.02
Δ = 17° 38' 27"
D = 8° 11' 06"
R = 700.00'
L = 215.52'
T = 108.62'
E = 8.38'

RAMP N
CURVE DATA
P.I. Sta. 11+14.89
Δ = 36° 00' 00"
R = 350.00'
L = 219.91'
T = 113.72'
E = 18.01'

RAMP N
CURVE DATA
P.I. Sta. 13+79.47
Δ = 25° 30' 00"
D = 8° 11' 06"
R = 700.00'
L = 311.54'
T = 158.39'
E = 17.70'

RAMP O
CURVE DATA
P.I. Sta. 2+46.13
Δ = 19° 30' 00"
D = 4° 00' 00"
R = 1432.39'
L = 487.50'
T = 246.13'
E = 20.99'

FOR DETAILS OF STRUCTURE SEE SHEET NO. 205

FOR DETAILS OF STRUCTURE SEE SHEET NO. 207

FOR DETAILS OF STRUCTURE SEE SHEET NO. 210

FOR RAMP PROFILES SEE SHEET NO. 191

FOR RAMP "M & N" DETAILS SEE SHEETS NO. 215 & 216

FOR RAMP "O" DETAILS SEE SHEET NO. 217

S. R. 306 INTERCHANGE
SCALE: 1" = 50'

(L) ROADSIDE CLEANUP

REF. NO.	STATION FROM	TO	SIDE	L-6 GUARD RAIL, STEEL BEAM TYPE(DEEP) NO. 2-A I-15	UNITS
1-R	23+93.306	2+50 "M"	RT.	237.5	L.F.
2-R	2+50 "M"	27+82.306		425	
3-R	32+82.306	61+47.0		512.5	
4-R	61+44.0	36+50.306	RT.	375	
5-R	6+19 Clover Ave.			25	
6-R	263+00±	268+50±	RT.		131
7-R	269+00±	270+00±	RT.		2.6
8-R	267+00±	271+00±	LT.		24
	TOTALS				157.6

(D) DRAINAGE

REF. NO.	STATION FROM	TO	SIDE	I-1 12" PIPE FOR DRIVEWAYS	I-4 15" PIPE FOR DRIVEWAYS	I-4 6" PIPE UNDER DRAIN	I-4 8" OUTLET PIPE SEC. M-6.4(a)	I-5 6" 90° BEND	I-5 6" 60° WYE BEND	L-10 6" 60° BEND	S-29 DRAINAGE STRUCT. AGG'R.	E-3 CHANNEL EXCAV.
				L.F.	L.F.	L.F.	L.F.	E.A.			S.Y.	C.Y.
1-D	6+15 Clover Ave.		RT.		34	52						
2-D	6+55 Clover Ave.		LT.									
3-D	244+00"306	1543.62" N"					1718	40	1	2	0.9	
4-D	271+75"306	1446.092" N"	RT.				1644	10	1		0.3	
5-D	0+00-81+97 Ramp "O"		RT.				924	20		2	0.6	
6-D	32+30-34+25 S.R. 306		RT.				200	10			0.3	
7-D	9+10 Ramp "N"		LT.							1		14
8-D	34+82.306 Clover Ave.		LT.		29							
9-D	34+46.46 Clover Ave.		RT.		21							
10-D	41+50 "N"	274+00										1015

(E) DRAINAGE

REF. NO.	STATION FROM	TO	SIDE	E-12 PIPE REMOVAL 15" & UNDER L.F.	E-12 PIPE REMOVAL OVER 15" L.F.
1-D	44+91-51+08 Clover Ave.		RT.	17	
2-D	51+75-51+90 Clover Ave.		RT.	15	17
3-D	51+53-51+72 Clover Ave.		LT.		

(P) PAVEMENT

REF. NO.	STATION FROM	TO	I-12 TYPE A CONC. CURB L.F.	I-12 SP. CONC. CURB L.F.	I-12 STD. 6.6 CONC. CURB L.F.	I-21 4" PORT. CEM. CONC. MEDIAN PAV'T. TY. I S.Y.	E-1 COMPACT. SUBGR. S.Y.	T-31 BIT. MAT'L. GAL.	T-31 NO. 6 AGGR. C.Y.	T-31 NO. 46 AGGR. C.Y.	T-71 10" PORTLAND CEMENT CONC. PAV'T. S.Y.	B-33 3" BIT. MAC. BASE CRSE. S.Y.	I-22 SUBBASE C.Y.	I-12 MOD. SP. CONC. CURB L.F.	I-18 5" ENH. AGGR. SHOULD. APR. C.Y.
1-P	0+35.66	8+58.37													
2-P	8+58.37	44+60.92	1618		261	38	1797	728	3.2	3.2	1198	1457	920	58	20
3-P	8+58.37	15+32.62		73			1875	339	5.4	5.4	677	903	334	131	97
4-P	0+00	9+07.96			208	33	2689	349	5.6	5.6	698	931	476		101
	TOTALS		1618	73	469	275	11216	1617	25.9	25.9	7981	3235	2088	131	465

(P) PAVEMENT

REF. NO.	STATION FROM	TO	SIDE	B-19 6" CRUSHED AGGREGATE BASE COURSE C.Y.	E-1 COMPACTED SUBGRADE S.Y.
5-P	6+25±	Clover Ave.	RT.	20	
6-P	6+55±	Clover Ave.	LT.	11	
	TOTALS			31	

(S) STRUCTURES

REF. NO.	STATION FROM	TO	SIDE	E-2 EXCAV. FOR STRUCT. C.Y.	L-10 SODDING S.Y.	S-1 CONC. FOR STRUCT. CL. "E" C.Y.	S-27 18" PIPE FOR RDWY. CULVERTS SEC. M-6.8(b) OR M-6.6(b) L.F.	S-27 21" PIPE FOR RDWY. CULVERTS SEC. M-6.8(b) OR M-6.6(b) L.F.	S-27 30" PIPE FOR RDWY. CULVERTS SEC. M-6.8(b) OR M-6.6(b) L.F.
1-S	8+50	Ramp M & N		40	18	1.02			120
2-S	11+40	Ramp N		16	14	0.60	90		
3-S	5+70	Ramp O		28	14	0.72		112	

PROFILE – PRIVATE DRIVE
SCALE: VERT. 1"=10'
HORIZ. 1"=20'
℄ Sta. 6+25 Clover Ave.

PROFILE – TURNAROUND
SCALE: VERT. 1"=10'
HORIZ. 1"=20'
℄ Sta. 6+56 Clover Ave.

TYPICAL SECTION FOR 5-P & 6-P
6" B-19 Cr. Aggr. Base Crse.