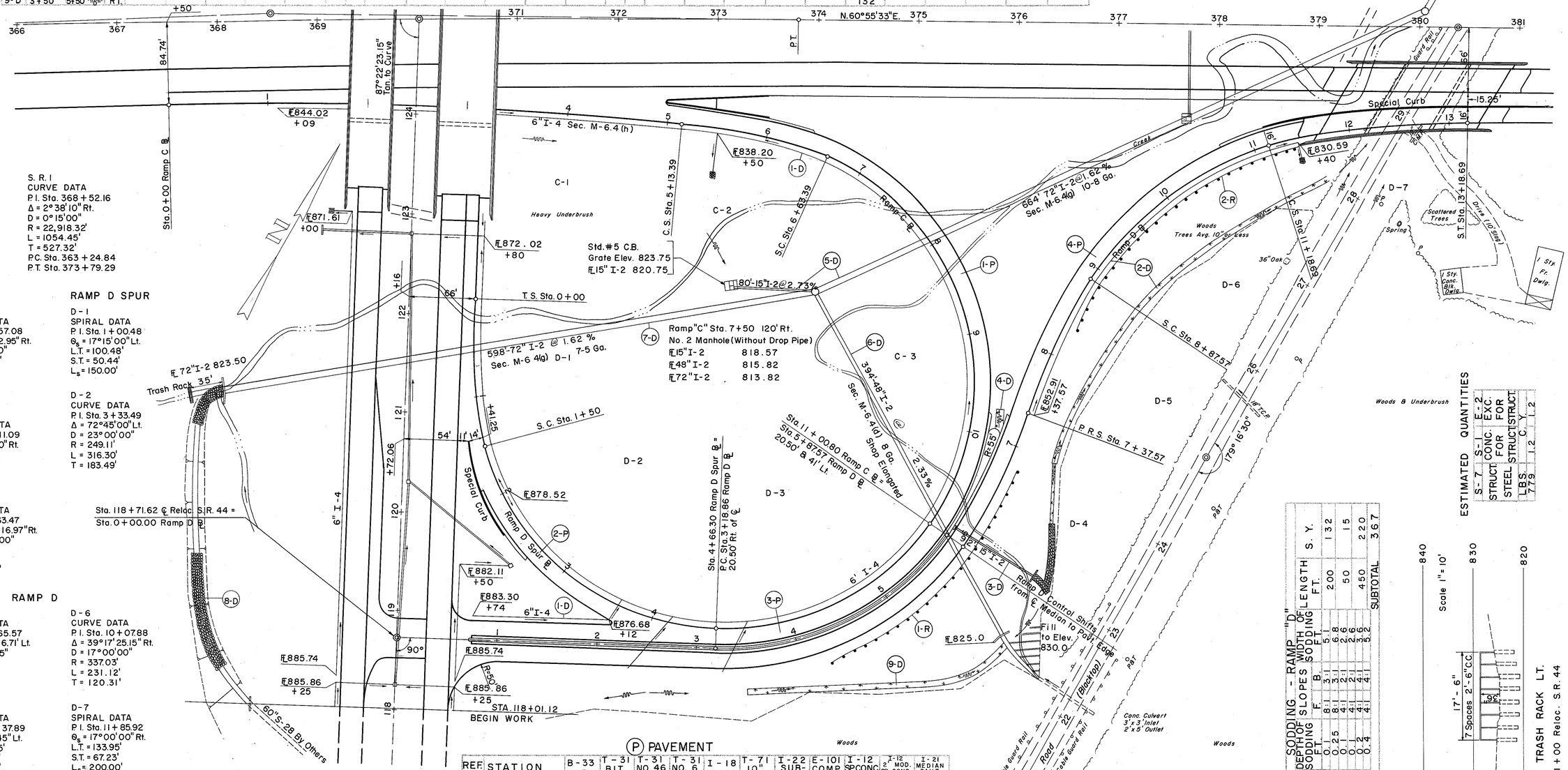
| FED. RD. DIVISION | STATE | PROJECT | |
|---|---|---|---|
| 2 | OHIO | ACI-1103(21) | |



LAKE COUNTY
LAK-1-12.89

## Ⓓ DRAINAGE

| REF. NO. | STATION FROM | STATION TO | SIDE OR ℄ | E-2 EXCAV. FOR STRUCT. C.Y. | CL "A" STORM SEWER UNDER PAVMT. SEC. M-6.5(b) OR M-6.8(b) 15" | I-2 15" STORM SEWER M-6.4(c) | 48" STORM SEWER M-6.4(d) 8 GA. | 72" STORM SEWER M-6.4(g) 7-5 GA | 15" STORM SEWER SEC. M-6.5(a) OR M-6.8(a) 10-8 GA | I-4 6" PIPE UNDERDRAIN M-6.4(h) | 8" OUTLET PIPE SHALLOW M-6.4(a) | 6" TEE | I-5 6" 60° WYE | 6" 60° BEND | 6" 90° BEND | 15" 30° BEND M-6.4(c) | I-8 STD. #5 CATCH BASIN | STD. #6 CATCH BASIN | STD. #2 M.H. | I-10 DUMPED ROCK CHANNEL PROTECT. C.Y. | L-10 SODDING S.Y. | S-1 CONC. FOR STRUCT. CL. "C" C.Y. | S-4 REINF. STEEL LBS. | S-29 DRAINAGE OF STRUCT. NO. 2 AGGR. C.Y. | E-3 CHANNEL EXCAV. C.Y. | TRASH RACK LUMP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | LIN. FT. | | | | | | | | | | EACH | | | | | | | | | | |
| 1-D | 1+09 RAMP D | 2+00 RAMP D | | | | | | | | 440 | 1337 | 10 | 2 | 2 | 1 | | | | | | | | | 0.3 | | |
| 2-D | 7+38 RAMP D | 11+40 | RT. | | | | | | | | 417 | 10 | | | | 1 | | | | 33 | 235 | | | 0.3 | | |
| 3-D | 6+00 RAMP D | 7+30 | LT. | 6 | | 30 | 62 | | | | | | | | | 2 | | 1 | | 12 | 2 | 3.2 | 146 | | | |
| 4-D | 7+05 RAMP D | | | | | | | | | | | | | | | | | | | | 18 | | | | | |
| 5-D | 7+94 RAMP D | | | | | | | 664 | 80 | | | | | | | | 1 | | 1 | | | | | | | |
| 6-D | 5+88 RAMP D | | | 24 | | | | 394 | | | | | | | | | | | | | 5 | 16.5 | 805 | | | |
| 7-D | 12+50 S.R. 44 | | | 32 | | | | | 598 | | | | | | | | | | | 56 | 6 | 29.2 | 1467 | | | LUMP |
| 8-D | 118+40 | 119+50 S.R. 44 | LT. | | | | | | | | | | | | | | | | | 144 | | | | | 694 | |
| 9-D | 3+50 | 5+50 RAMP D | RT. | | | | | | | | | | | | | | | | | | 132 | | | | | |




S. R. I
CURVE DATA
P.I. Sta. 368+52.16
Δ = 2°38'10" Rt.
D = 0°15'00"
R = 22,918.32'
L = 1054.45'
T = 527.32'
P.C. Sta. 363+24.84
P.T. Sta. 373+79.29

### RAMP C

C-1
CURVE DATA
P.I. Sta. 2+57.08
Δ = 7°42'02.95" Rt.
D = 1° 30' 00"
R = 3819.72'
L = 513.39'
T = 257.08'
E = 8.64'

C-2
SPIRAL DATA
P.I. Sta. 6+11.09
$\Theta_s$ = 18°22'30" Rt.
L.T. = 97.70'
S.T. = 53.60'
$L_s$ = 150.00'

C-3
CURVE DATA
P.I. Sta. 9+63.47
Δ = 100°36'16.97" Rt.
D = 23°00'00"
R = 249.11'
L = 437.41'
T = 300.08'

### RAMP D SPUR

D-1
SPIRAL DATA
P.I. Sta. 1+00.48
$\Theta_s$ = 17°15'00" Lt.
L.T. = 100.48'
S.T. = 50.44'
$L_s$ = 150.00'

D-2
CURVE DATA
P.I. Sta. 3+33.49
Δ = 72°45'00" Lt.
D = 23°00'00"
R = 249.11'
L = 316.30'
T = 183.49'

### RAMP D

D-3
CURVE DATA
P.I. Sta. 4+65.57
Δ = 57°06'16.71' Lt.
D = 21°15'05"
R = 269.61'
L = 268.71'
T = 146.71'

D-4
SPIRAL DATA
P.I. Sta. 6+37.89
$\Theta_s$ = 14°48'45" Lt.
L.T. = 100.35'
S.T. = 50.32'
$L_s$ = 150.00'

D-5
SPIRAL DATA
P.I. Sta. 8+37.83
$\Theta_s$ = 12°45'00" Rt.
L.T. = 100.26'
S.T. = 50.24'
$L_s$ = 150.00'

D-6
CURVE DATA
P.I. Sta. 10+07.88
Δ = 39°17'25.15" Rt.
D = 17°00'00"
R = 337.03'
L = 231.12'
T = 120.31'

D-7
SPIRAL DATA
P.I. Sta. 11+85.92
$\Theta_s$ = 17°00'00" Rt.
L.T. = 133.95'
S.T. = 67.23'
$L_s$ = 200.00'

## Ⓡ ROADWAY

| REF. NO. | STATION FROM | STATION TO | SIDE | I-15 GUARD RAIL, STEEL BEAM, TYPE (DEEP) #2-B |
|---|---|---|---|---|
| 1-R | 4+25 RAMP D | 6+75 | RT. | 250 |
| 2-R | 8+25 RAMP D | 11+40 | RT. | 312.5 |
| | | TOTAL | | 562.5 |

## Ⓟ PAVEMENT

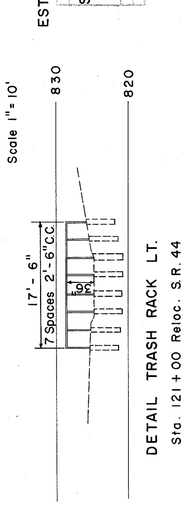
| REF. NO. | STATION FROM | STATION TO | B-33 3" S.Y. | T-31 BIT. MATL. GALS. | T-31 NO. 46 AGGR. C.Y. | T-31 NO. 6 AGGR. C.Y. | I-18 5" C.Y. | T-71 10" CONC. S.Y. | I-22 SUB-BASE C.Y. | E-101 COMP. SUBGR. S.Y. | I-12 SP CONC. CURB L.F. | I-12 2" MOD. SP CONC. CURB L.F. | I-21 MEDIAN PAVT. TYPE 2 S.Y. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-P | 5+96.55 RAMP C | 11+00 RAMP C | 615 | 308 | 4.9 | 4.9 | 93 | 895 | 274 | 1510 | | | |
| 2-P | 0+00 SPUR | 4+66.30 | 395 | 198 | 3.2 | 3.2 | 59 | 555 | 179 | 950 | 103 | | |
| 3-P | 0+74 RAMP D | 5+87.57 D | 1329 | 665 | 10.6 | 10.6 | 217 | 2061 | 622 | 3390 | | | 171 |
| 4-P | 5+87.57 D | 11+40 RAMP D | 675 | 338 | 5.4 | 5.4 | 102 | 982 | 299 | 1657 | | 60 | |
| | TOTALS | | 3014 | 1509 | 24.1 | 24.1 | 471 | 4493 | 1374 | 7507 | 103 | 60 | 171 |

### SODDING - RAMP "D"

| STATION | DEPTH OF SODDING FT. | SLOPES F. | SLOPES B. | WIDTH OF SODDING FT. | LENGTH FT. | S.Y. |
|---|---|---|---|---|---|---|
| 3+50 | 0.1 | 8:1 | 3:1 | 5.1 | 200 | 132 |
| 5+50 | 0.25 | 8:1 | 3:1 | 6.8 | | |
| 6+50 | 0.1 | 4:1 | 2:1 | 2.6 | 50 | 15 |
| 7+00 | 0.2 | 4:1 | 2:1 | 2.6 | | |
| 7+50 | 0.4 | 4:1 | 4:1 | 5.2 | 450 | 220 |
| 11+50 | | | | | SUBTOTAL | 367 |

### ESTIMATED QUANTITIES

| S-7 STRUCT. STEEL LBS. | S-1 CONC. FOR STRUCT. C.Y. | E-2 EXC. FOR STRUCT. C.Y. |
|---|---|---|
| 779 | 1.2 | 1.2 |




DETAIL TRASH RACK LT.
Sta. 121+00 Reloc. S.R. 44
FOR DETAIL OF POST
SEE SHEET # 31

RELOC. S. R. 44 INTERCHANGE