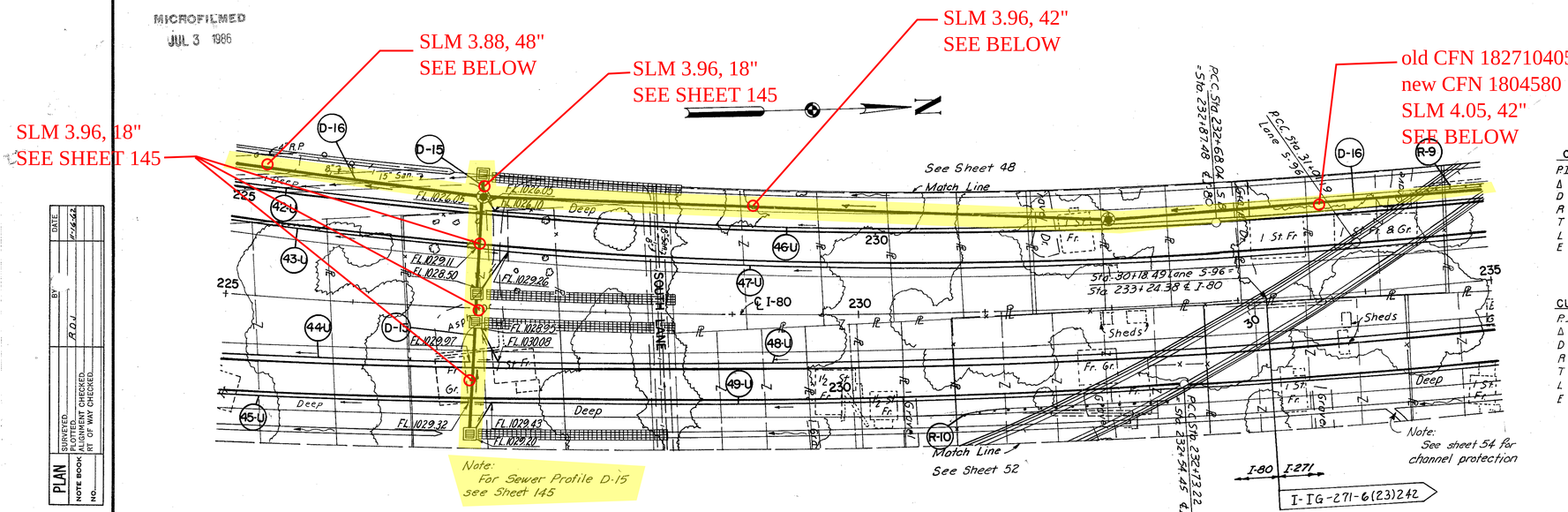
MICROFILMED
JUL 3 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	~~FHC-90-4(67)1~~	

37
246

CUYAHOGA COUNTY
CUY-14-13.28



CURVE DATA

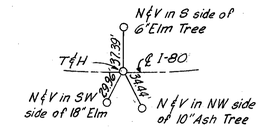
P.I. Sta. 227+98.91 S.B. I-80
Δ = 13° 49' 43"
D = 1° 28' 00"
R = 3906.53'
T = 473.72'
L = 942.85'
E = 28.62'

CURVE DATA

P.I. Sta. 223+77.73 N.B. I-80
Δ = 13° 29' 53"
D = 0° 45' 00"
R = 7639.42'
T = 904.06'
L = 1739.75'
E = 53.31'

CURVE DATA

P.I. Sta. 231+11.75 ℄ I-80 & I-271
Δ = 23° 47' 40"
D = 1° 00' 00"
R = 5729.58'
T = 1207.12'
L = 2379.45'
E = 125.77'



REFERENCE POINT
M.P. Sta 230 + 94.36

PROPOSED STRUCTURE CUY-14-1401

TYPE: Continuous steel girder with reinforced concrete deck and substructure
SPANS: 119'-8", 175'-0 7/8", 173'-0 3/4", 129'-8 5/8"
ROADWAY: 30'-0", curb/curb with two 2'-3" safety curbs.
LOAD FREQUENCY: CF 2000(57) adequate for A.A.S.H.O. alternate loading
SKEW: Varies
WEARING SURFACE: 1" Monolithic Concrete
APPROACH SLABS: AS-1-54(25' long)
ALIGNMENT: 3°-30'-00" Left and 1° 28'-00" Left

BENCH MARK 109-8
Log bolt & washer in NE root of 18" Elm 25' W of Bessemer Rd. & 30' N of House # 5564, 155' Lt of Sta. 234+60.
Elev. 1055.36

DRAINAGE

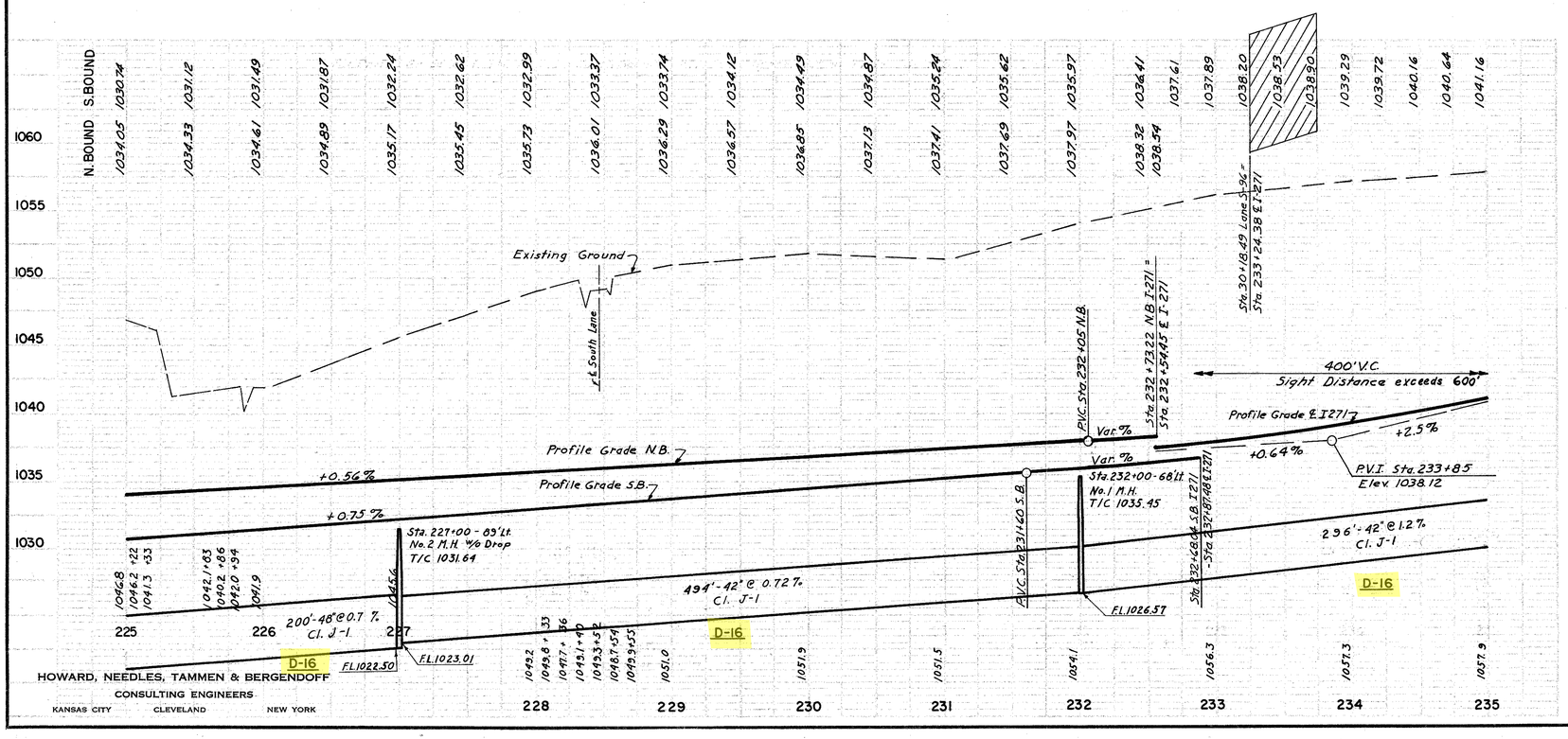
Ref. No.	Profile Sheet No. Ref.	Station From	Station To	Side	I-1 Class E-1 18"	I-1 Class J-1 18"	I-1 Class J-1 42"	I-1 Class J-1 48"	I-8 Std. No.5 C.B.	I-8 Std. No.8 C.B.	I-8 Std. No.1 M.H.	I-8 Std. No.2 M.H. w/ drop	L-120 Jute Matting
					Lin. Ft.				Each				Sq. Yds.
D-15	145	227+00		L & R	39	166			2	2			500
D-16		225+00	235+00	Lt.			790	200			1	1	
			Total		39	166	790	200	2	2	1	1	500

UNDERDRAINS

Ref. No.	Station From	Station To	Side	I-1 Cl. F-4 6"	I-1 Class Shallow 6"	I-1 Class Deep 6"	I-5 Cl. I-3 6"x6"x6" Y
				Lin. Ft.			Each
42-U	225+00	226+95	Lt.			195	
43-U	225+00	226+95	Lt.		195		
44-U	225+00	226+95	Rt.		195		
45-U	225+00	226+95	Rt.			195	
46-U	227+00	235+00	Lt.	10		800	1
47-U	227+00	235+00	Lt.	10	828		1
48-U	227+00	235+00	Rt.	10	823		1
49-U	227+00	235+00	Rt.	10		817	1
Total				40	2041	2007	4

GUARD RAIL

Ref. No.	Station From	Station To	Side	I-15 Steel Beam Type (Deep)
				Lin. Ft.
R-9	234+50	235+00	Lt	50
R-10	230+98	232+61	Rt.	162.5
Total				212.5



HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY CLEVELAND NEW YORK

Excavation	130,306 Cu. Yds.
Embankment	0 Cu. Yds.
Embankment + 18%	0 Cu. Yds.

STA. 225 + 00 TO STA. 235 + 00