SLM 18.27, 12"
SEE SHEET 289

SLM 18.27, 15"
SEE SHEET 289

SLM 18.18, 12"
SEE SHEET 288

CFN 180711825
SLM 18.22, 42"
SEE SHEET 290

SLM 18.18, 15"
SEE SHEET 288

SLM 18.18, 18"
SEE SHEET 288

CFN 180711815
SLM 18.12, 48"
SEE SHEET 286

CFN 180711821
SLM 18.18, 48"
SEE SHEET 286
SLM 18.22, 15"
SEE SHEET 288
SLM 18.22, 24"
SEE SHEET 288

SLM 18.22, 21"
SEE SHEET 288

SLM 18.22, 15"
SEE SHEET 288

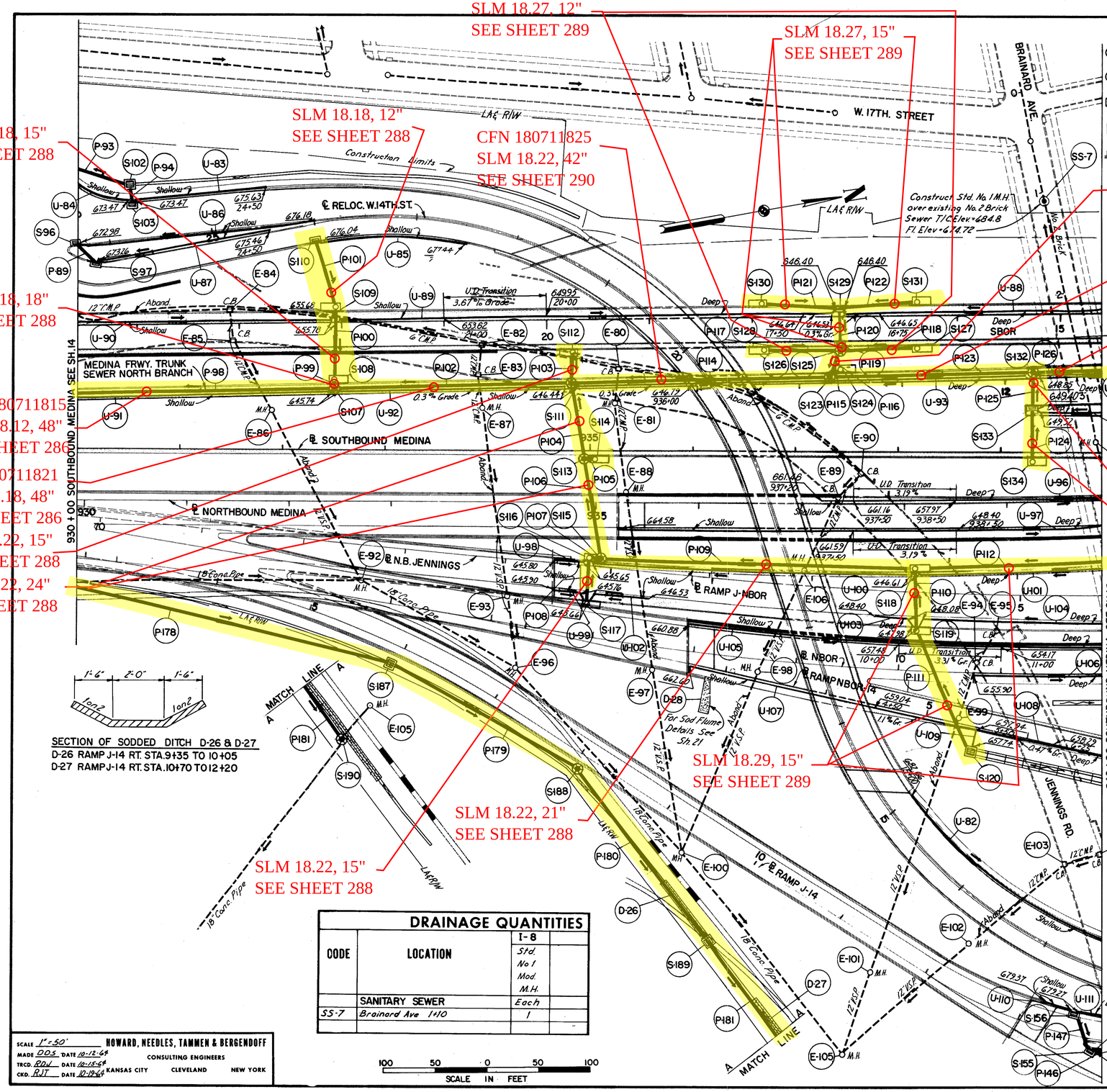
SLM 18.29, 15"
SEE SHEET 289

CFN 180711830
SLM 18.27, 42"
SEE SHEET 290

CFN 180711834
SLM 18.31, 42"
SEE SHEET 290

SLM 18.27, 18"
SEE SHEET 289

SLM 18.31, 15"
SEE SHEET 291



DRAINAGE LEGEND

- PROPOSED STORM SEWER MANHOLE
- PROPOSED SANITARY MANHOLE
- PROPOSED PAVED SHOULDER INLET
- PROPOSED DITCH CATCH BASIN
- PROPOSED PAVEMENT CATCH BASIN
- PROPOSED STORM OR SANITARY SEWER
- EXISTING MANHOLE
- EXISTING CATCH BASIN
- EXISTING STORM OR SANITARY SEWER
- JUTE MATTING
- SODDED DITCH

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CUYAHOGA COUNTY
CUY - 71-17.83
CUY - 176-12.76

265/646

15/54

When Manhole or Catch Basin shown on this sheet are to be abanded and are not removed entirely seal pipe to structure

DRAINAGE QUANTITIES

CODE	LOCATION	E-12 Pipe Removed 15" & Over	I-16 M.H. Aband.	I-16 C.B. Aband.	L-10 Sodding Spec. Slope & Berm Protection
		Lin. Ft.	Each		Sq. Yds.
	EXISTINGS STRUCTURES				
E-79	S.B. Medina Lt. & Rt. 939+95	240			
E-80	S.B. Medina Lt. 935+30			1	
E-81	S.B. Medina Lt. 935+27		1		
E-82	SBOR Lt. 20+65			1	
E-83	SBOR Rt. 23+10			1	
E-84	SBOR Lt. 23+07			1	
E-85	SBOR Lt. 931+90		1		
E-86	S.B. Medina Lt. 933+95		1		
E-87	S.B. Medina Lt. 933+30		1		
E-88	N.B. Medina Lt. 935+30			1	
E-89	N.B. Medina Lt. 937+35			1	
E-90	N.B. Medina Lt. 937+57			1	
E-91	S.B. Medina Lt. 939+92		1		
E-92	N.B. Jennings Rt. 72+40		1		
E-93	N.B. Jennings Rt. 74+05		1		
E-94	NBOR Lt. 10+25			1	
E-95	NBOR Lt. 10+95			1	
E-96	NBOR Rt. 6+30			1	
E-97	NBOR Rt. 7+65		1		
E-98	NBOR Rt. 8+65		1		
E-99	Ramp NBOR-14 Lt. 5+30		1		
E-100	Ramp J-14 Rt. 9+35		1		
E-101	Ramp J-14 Rt. 11+50		1		
E-102	Ramp J-14 Lt. 12+20		1		
E-103	Reloc. W. 14th St. Rt. 13+25			1	
E-104	Reloc. W. 14th St. Rt. 12+95			1	
E-105	Ramp J-14 Rt. 11+75		1		
E-106	Ramp J-NBOR Lt. 2+95		1		
	DITCH PROTECTION				
D-26	Ramp J-14				47
D-27	Ramp J-14				87
D-28	Ramp NBOR-14 Rt. 2+85				30
	Total	240	16	11	129 30

DRAINAGE QUANTITIES

CODE	LOCATION	I-1 Cl. F-4 6"	I-1 Cl. F-3 Shallow 6"	I-1 Cl. F-3 Deep 6"	I-5 Cl. F-3 60° Bend 6"	I-5 Cl. F-3 Tee 6"x6"x6"
		Lin. Ft.				Each
	UNDERDRAINS					
U-82	Rel. W. 14th St. Rt. 12+40 to 15+00	237				
U-83	Rel. W. 14th St. Rt. 24+50 to 25+75	130				
U-84	Rel. W. 14th St. Rt. 25+80 to 26+30	52				
U-85	Rel. W. 14th St. Lt. 22+50 to 24+00	150				
U-86	Rel. W. 14th St. Lt. 24+00 to 26+34	235				
U-87	N.B. Rel. W. 14th St. 24+50 to 28+16	166				
U-88	SBOR Rt. 14+40 to 17+14	9		250	1	
U-89	SBOR Rt. 17+14 to 22+00	9	100	381	1	
U-90	SBOR Rt. 22+05 to 24+58	10	248		1	
U-91	S.B. Medina Lt. 930+00 to 932+50	5	245		1	
U-92	S.B. Medina Lt. 932+50 to 934+81	5	226		1	
U-93	S.B. Medina Lt. 934+81 to 939+25	5		410	1	
U-94	SBOR - N. Rt. 11+05 to 11+67	5		57	1	
U-95	S.B. Medina Lt. 939+30 to 940+00	9		65	1	
U-96	N.B. Medina Lt. 937+20 to 939+90		30	240		
U-97	N.B. Medina Rt. 935+25 to 939+90		225	240		
U-98	N.B. Jennings Lt. 74+50 to 74+80	4	25		1	
U-99	N.B. Jennings Rt. 74+55 to 74+80	10	20		1	
U-100	N.B. Jennings Lt. 74+80 to 78+00	4	310		1	
U-101	N.B. Jennings Lt. 78+00 to 79+95	4		180	1	
U-102	N.B. Jennings Rt. 74+80 to 75+40	10	55		1	
U-103	Ramp J-NBOR Rt. 3+40 to 4+00	10		35	1	
U-104	Ramp J-NBOR Rt. 4+00 to 5+80	10		175	1	
U-105	NBOR Rt. 7+95 to 12+00		205	200		
U-106	NBOR Rt. 10+75 to 12+00			125		
U-107	Ramp NBOR-14 Rt. 2+45 to 5+50		185	100		
U-108	Ramp NBOR-14 Rt. 5+50 to 6+75			125		
U-109	Ramp NBOR-14 Rt. 5+50	10		13		1
U-110	Ramp J-14 Lt. 13+20 to 13+50		30			
U-111	Ramp J-14 Lt. 13+50 to 13+80			30		
U-112	Ramp J-14 Lt. 13+75 to 13+85			10		
	Total	119	2084	2656	15	1

DRAINAGE QUANTITIES

CODE	LOCATION	I-8 Std. No 1 Mod. M.H.
	SANITARY SEWER	Each
SS-7	Brainard Ave 1+10	1

SCALE 1" = 50'
MADE DOS DATE 10-12-64
TRCD. RDJ DATE 10-15-64
CKD. RJT DATE 10-19-64

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

100 50 0 50 100
SCALE IN FEET

DRAINAGE PLAN