FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

40
347

CUYAHOGA COUNTY
CUY. 77-6.45

SLM 7.77, 12"
REMOVED UNDER
2008 CUY-77-1.89

SLM 7.77, 48"
SEE BELOW
REMOVED UNDER
2008 CUY-77-1.89

SLM 7.86, 54"
SEE BELOW

SLM 7.91, 54"
SEE R/W SHEET 342
FOR EASEMENT

SLM 7.86, 33"
SEE SHEET 113
AND 114

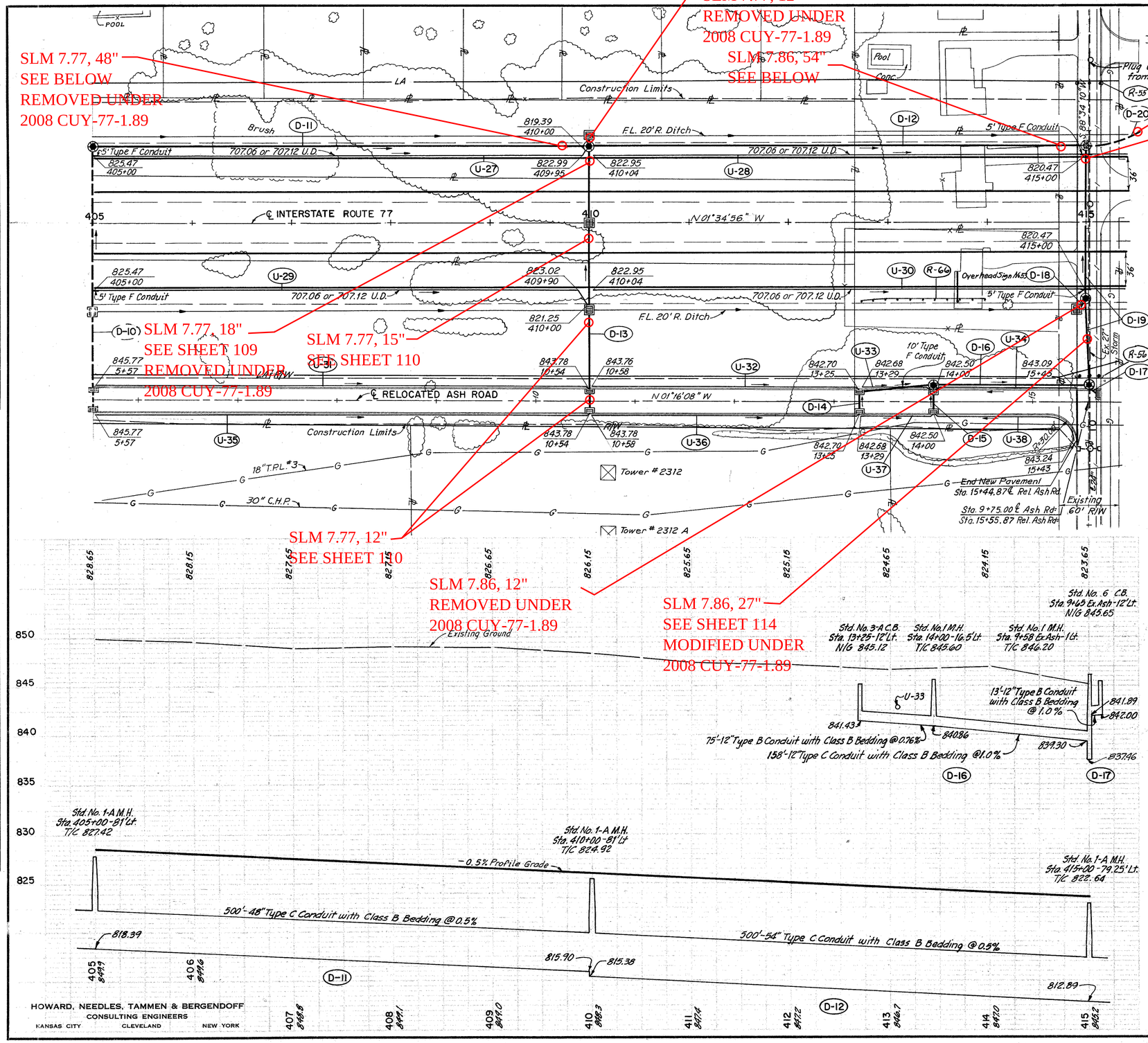
SLM 7.77, 18"
SEE SHEET 109
REMOVED UNDER
2008 CUY-77-1.89

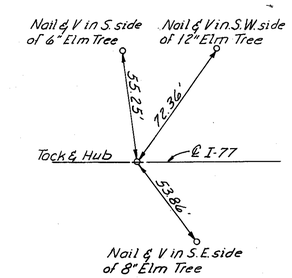
SLM 7.77, 15"
SEE SHEET 110

SLM 7.77, 12"
SEE SHEET 110

SLM 7.86, 12"
REMOVED UNDER
2008 CUY-77-1.89

SLM 7.86, 27"
SEE SHEET 114
MODIFIED UNDER
2008 CUY-77-1.89





REFERENCE POINT
Sta. 408+00.00 ℄ I-77

SEE 2008 CUY-77-1.89 PLANS FOR CULVERT AND STORM SEWER MODIFICATIONS.

DRAINAGE

Ref. No.	Station From	Station To	Side	Sewer Profile Sheet No.	603 Type B Class B 12" Lin. Ft.	603 Type B Class B 15" Lin. Ft.	603 Type B Class B 18" Lin. Ft.	603 Type B Class B 33" Lin. Ft.	603 Type C Class B 12" Lin. Ft.	603 Type C Class B 48" Lin. Ft.	603 Type C Class B 54" Lin. Ft.	603 Type F 707.04 12" Lin. Ft.	603 Type F 707.04 as per plan 27" Lin. Ft.	603 Type F 707.04 as per plan 12" Lin. Ft.	604 Std. No. 1 M.H. Each	604 Std. No. 1-A M.H. Each	604 Std. No. 3-A C.B. Each	604 Std. No. 6 C.B. Each	604 Std. No. 4 C.B. Each	604 Type F 707.04 45° Bend 12" Each	604 Type F 707.04 45° Bend 27" Each
D-11	403+00	410+00	Lt.	40																	
D-12	410+00	415+00	Lt.	40						500											
D-13	410+00			10,98,110			74	88								1	2		1	2	
D-14	13+25			112			80		8			59									
D-15	14+00			112													2				
D-16	13+25	9+65	Lt.	40	24				5								2				
D-17	9+58	9+85	Rt.	40	24	75			198									1			
D-18	14+90	15+00	Rt.	203		13									2						
D-19	15+00			1138,114					14			68	27	2	1						
Total					160	88	80	156	185	500	500	59	68	30	3	2	6	1	1	2	1

UNDERDRAINS

Ref. No.	Station From	Station To	Side	603 Type F 707.04 6" Lin. Ft.	603 Type F 707.04 6" Lin. Ft.	605 707.08 or 707.12 6" Lin. Ft.	605 60° Bend 6" Each
U-27	405+00	410+00	Lt.	15			
U-28	410+00	415+00	Lt.	5			
U-29	405+00	410+00	Rt.	15		490	1
U-30	410+00	419+00	Rt.	5		491	1
U-31	5+57	10+54	Lt.	10		490	
U-32	10+58	13+25	Lt.	10	257	491	
U-33	13+29	14+00	Lt.	20	51		
U-34	14+00	15+45	Lt.	10	135		
U-35	5+57	10+54	Rt.	10	487		
U-36	10+58	13+25	Rt.	10	257		
U-37	13+29	14+00	Rt.	10	61		
U-38	14+00	15+43	Rt.	10	146		
Total				130	1881	1962	

GUARD RAIL

Ref. No.	Station From	Station To	Side	606 Type 4 Deep Beam Rail as/plan Lin. Ft.
R-66	412+73	413+98	Rt.	125
R-55	6+50	9+50	Lt. & Rt.	25
R-56	9+50		Lt. & Rt.	25
Total				175

Note: For Details of Relocated Ash Rd. Intersection See Sheet No. 72

EXCAVATION	189,360	CU. YDS.
EMBANKMENT	93	CU. YDS.
EMBANKMENT +		CU. YDS.

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

PLAN		
SURVEYED		
PLOTTED	D.D.S.	3-12-80
ALIGNMENT CHECKED		
GRADES CHECKED		
B. M. NOTED		
STRUCTURE NOTAT'NS CH'KD	R.J.T.	12-26-82

PROFILE		
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
GRADES CHECKED		
B. M. NOTED		
STRUCTURE NOTAT'NS CH'KD		

STA. 405+00 TO STA. 415+00