

UNDERDRAINS						
Station	Side	603			Bends	Ref. No.
		Type B	707.01 Type III or 707.12 as per plan	Unclass. as per plan		
From	To	Lin. Ft.	Lin. Ft.	Lin. Ft.	6"	6"
1048+50	1051+00	Lt.	250			U-1
1048+50	1051+00	Lt.	250			U-2
1048+50	1051+00	Rt.	250			U-3
1048+50	1051+00	Rt.	250			U-4
48+50	51+00	Rt.	150	100		U-5
49+00	51+00	Rt.	23		2	U-6
49+00	51+00	Lt.	100	100		U-7
Totals			23	1250	200	

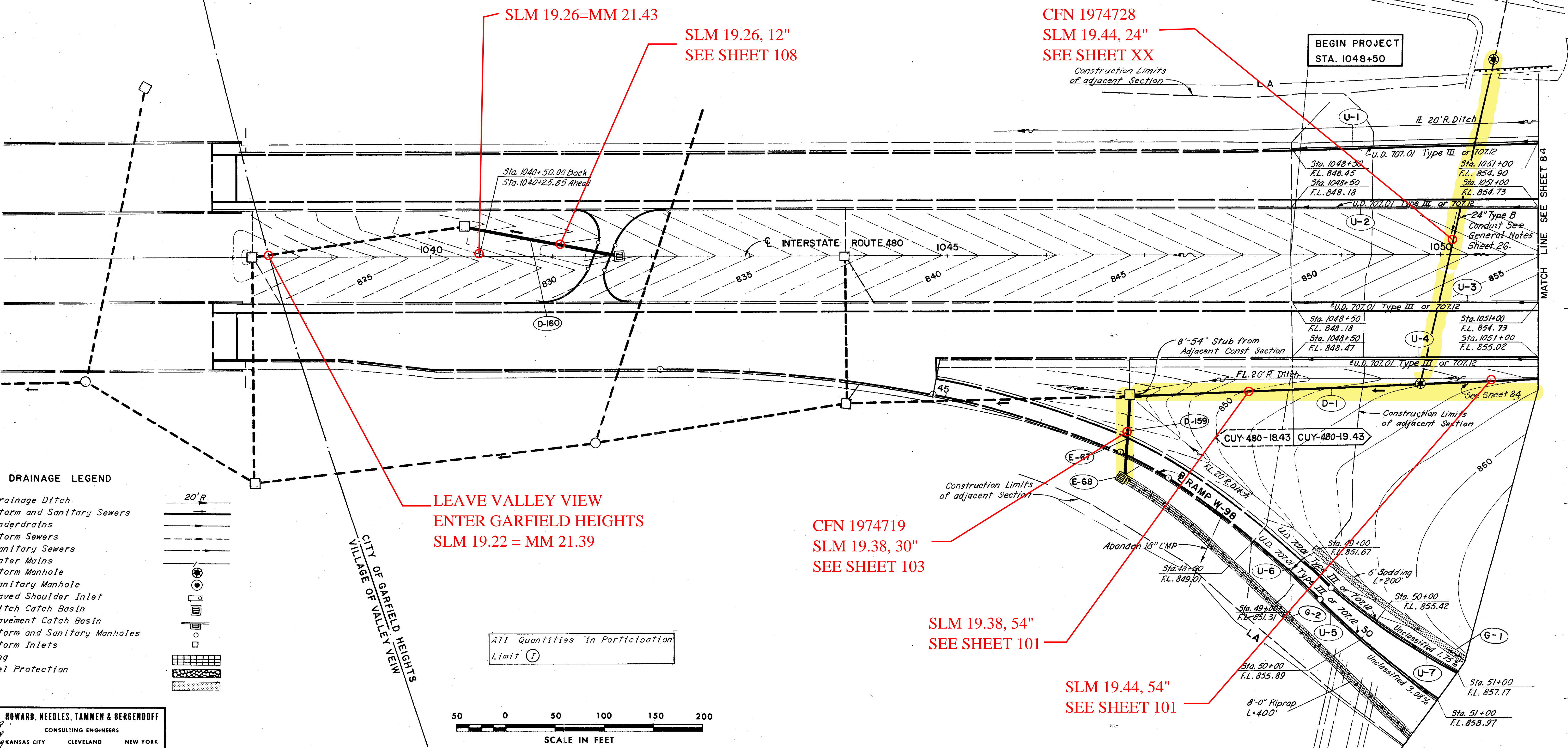
DRAINAGE											
REF. NO.	STATION	SIDE	Sewer Profile Sheet No.	202		603		603		604	
				Catch Basin or Inlet Removed	Pipe Removed	Type B Conduit	Type B Conduit	Type C Conduit	Standard No. 4 Catch Basin	Std. No. 5A Catch Basin	
	FROM	TO	Each	Linear Feet	Linear Feet	Linear Feet	Linear Feet	Linear Feet	Each	Each	
D-1	1046+93	1051+50	Rt.	101				457		1	
D-159	47+00	1046+85	Rt.	103			85			1	
D-160	1040+35	1041+68	Lt.	108		158			1		
E-67	47+00	1046+85	Rt.		85						
E-68	47+00		Rt.		1					2	
TOTALS				1	85	158	85	457	1	2	

EROSION CONTROL						
REF. NO.	STATION	SIDE	660		601	
			Sodding	Sq. Yds.	Riprap Using 6" Reinforced Conc. Slab	Sq. Yds.
	FROM	TO	Lt.	Sq. Yds.	Rt.	Sq. Yds.
G-1	49+00	51+00	Lt.	133		
G-2	47+00	51+00	Rt.	133	356	
TOTAL				266	356	

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

CUYAHOGA COUNTY
CUY-480-19.43

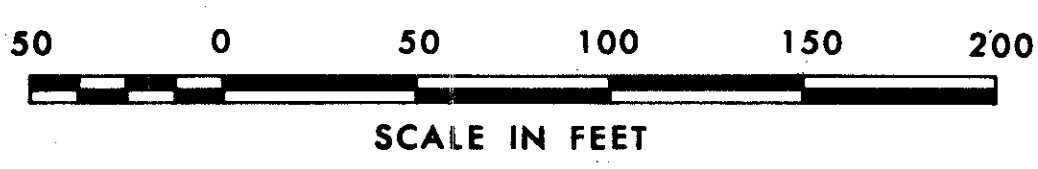
QUANTITY CALCULATIONS
MADE BY R.S.W. DATE 7-19-72
CHECKED BY E.R.A. DATE 7-25-72



DRAINAGE LEGEND

- Proposed Drainage Ditch
- Proposed Storm and Sanitary Sewers
- Proposed Underdrains
- Existing Storm Sewers
- Existing Sanitary Sewers
- Existing Water Mains
- Proposed Storm Manhole
- Proposed Sanitary Manhole
- Proposed Paved Shoulder Inlet
- Proposed Ditch Catch Basin
- Proposed Pavement Catch Basin
- Existing Storm and Sanitary Manholes
- Existing Storm Inlets
- Jute Matting
- Rock Channel Protection
- Sod

All Quantities in Participation
Limit 1



SCALE 1"=50'
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
MADE E.R.A. DATE 10-3-67
TRCD G.T. DATE 10-3-67
CKD R.A.E. DATE 11-3-67
CONSULTING ENGINEERS
KANSAS CITY CLEVELAND NEW YORK