



SECTION OF SODDED DITCH D-17
D-17 54+75 to 57+00 N.B. Jennings Rt.

SECTION OF SODDED DITCH D-18
D-18 58+00 to 58+50 N.B. Jennings Rt.

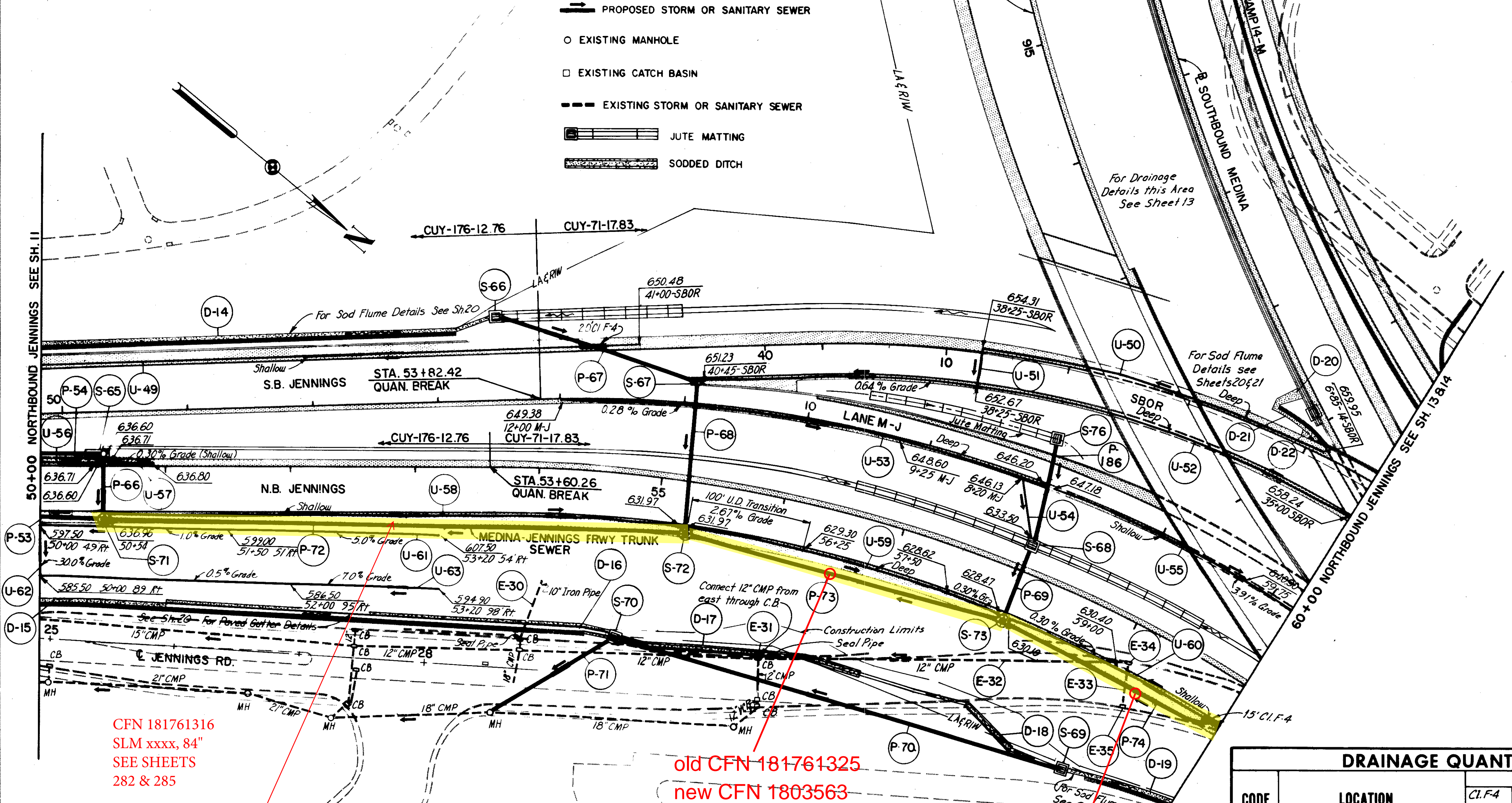
- ### DRAINAGE LEGEND
- ⊕ PROPOSED STORM SEWER MANHOLE
 - ⊙ PROPOSED SANITARY MANHOLE
 - ▭ PROPOSED PAVED SHOULDER INLET
 - ▭ PROPOSED DITCH CATCH BASIN
 - ▭ PROPOSED PAVEMENT CATCH BASIN
 - PROPOSED STORM OR SANITARY SEWER
 - EXISTING MANHOLE
 - EXISTING CATCH BASIN
 - - - EXISTING STORM OR SANITARY SEWER
 - ▨ JUTE MATTING
 - ▨ SODDED DITCH

DRAINAGE QUANTITIES

CODE	LOCATION	I-1				I-5	
		CI.F-4	CI.F-3 Shallow	CI.F-3 Deep	CI.J-1	CI.F-3 90° Bend	CI.F-3 Tee
CUY-71-17.83		6"	6"	6"	6"	6"	6" x 6" x 6"
UNDERDRAINS		LIN. FT.				EACH	
U-49	S.B. Jennings Frwy. Lt. 53+82 to 41+00 SBOR	20	60				
U-50	SBOR Rt. 6+85 to 58+00 to 38+25			287			
U-51	SBOR 38+25				30	1	1
U-52	SBOR Lt. 35+00 to 40+45	10		535			
U-53	Lane M-J Lt. 8+05 to 12+00			398			
U-54	Lane M-J Lt. 8+20	10		45			1
U-55	Lane M-J Lt. 5+80 to 7+95		215				
U-58	N.B. Jennings Rt. 53+60 to 55+25	10	150				
U-59	N.B. Jennings Rt. 55+28 to 58+00	10		255			
U-60	N.B. Jennings Rt. 58+03 to 60+00	25	165				
TOTAL		85	590	1520	30	1	1

DRAINAGE QUANTITIES

CODE	LOCATION	E-12	I-16	L-10	
		Pipe Removed 15' and Under	C.B. Aband.	Sodding	Sodding Special Slope & Berm Protection
CUY-71-17.83					
EXISTING STRUCTURES		LIN. FT.	EACH	SQ. YDS.	
E-31	N.B. Jennings Frwy. Rt. 56+00		1		
E-32	N.B. Jennings Frwy. Rt. 56+00 to 59+10	300			
E-33	N.B. Jennings Frwy. Rt. 59+10	35			
E-34	N.B. Jennings Frwy. Rt. 59+10		1		
E-35	N.B. Jennings Frwy. Rt. 59+35		1		
DITCH PROTECTION					
D-17	N.B. Jennings Frwy. Rt.			89	
D-18	N.B. Jennings Frwy. Rt.			17	
D-19	N.B. Jennings Frwy. Rt. 59+00 to 60+00			31	
D-20	Ramp 14-SBOR Rt. 7+35				17
D-21	Ramp 14-SBOR Rt. 6+95 to 7+35				17
D-22	Ramp 14-SBOR Rt. 7+05				8
TOTAL		335	3	154	25



old CFN 181761316
new CFN 1803564
SLM 13.16, 84"
See Sheets 282 and 285

old CFN 181761325
new CFN 1803563
SLM-13.25, 84"
SEE SHEET 285

old CFN 181761330
new CFN 1803562
SLM 13.30, 84"
SEE SHEET 285

DRAINAGE QUANTITIES

CODE	LOCATION	I-1				I-5	
		CI.F-4	CI.F-3 Shallow	CI.F-3 M6.4(h)	CI.F-3 60° Bend	CI.F-3 Tee	CI.F-3 6" x 6" x 6"
CUY-176-12.76		6"	6"	6"	6"	6" x 6" x 6"	
UNDERDRAINS		LIN. FT.				EACH	
U-49	S.B. Jennings Frwy. Lt. 49+85 to 53+82		397				
U-56	N.B. Jennings Frwy. Lt. 50+00 to 50+50	3	45		1		
U-57	N.B. Jennings Frwy. Lt. 50+50 to 50+90	3	35		1		
U-58	N.B. Jennings Frwy. Rt. 50+54 to 53+60		306				
U-61	N.B. Jennings Frwy. Rt. 50+00 to 53+20			320			
U-62	N.B. Jennings Frwy. Rt. 50+00	40				2	
U-63	N.B. Jennings Frwy. Rt. 50+00 to 53+20			320			
TOTAL		46	783	640	2	2	

DRAINAGE QUANTITIES

CODE	LOCATION	E-12	I-14	L-10
		Pipe Removed 15' and Under	Special Paved Gutter	Sodding
CUY-176-12.76				
EXISTING STRUCTURES		LIN. FT.		SQ. YDS.
E-30	N.B. Jennings Frwy. Rt. 54+00	50		
DITCH PROTECTION				
D-14	S.B. Jennings Frwy. Lt. 49+85 to 53+50			122
D-15	N.B. Jennings Frwy. Rt. 50+00 to 51+00			34
D-16	N.B. Jennings Frwy. Rt. 51+00 to 54+75		360	63
TOTAL		50	360	219

SCALE 1"=50'
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
MADE D.D.S. DATE 10-26-64 CONSULTING ENGINEERS
TRCD. JEN. DATE 10-12-64 KANSAS CITY CLEVELAND NEW YORK
CRD. R.U.T. DATE 10-13-64

