



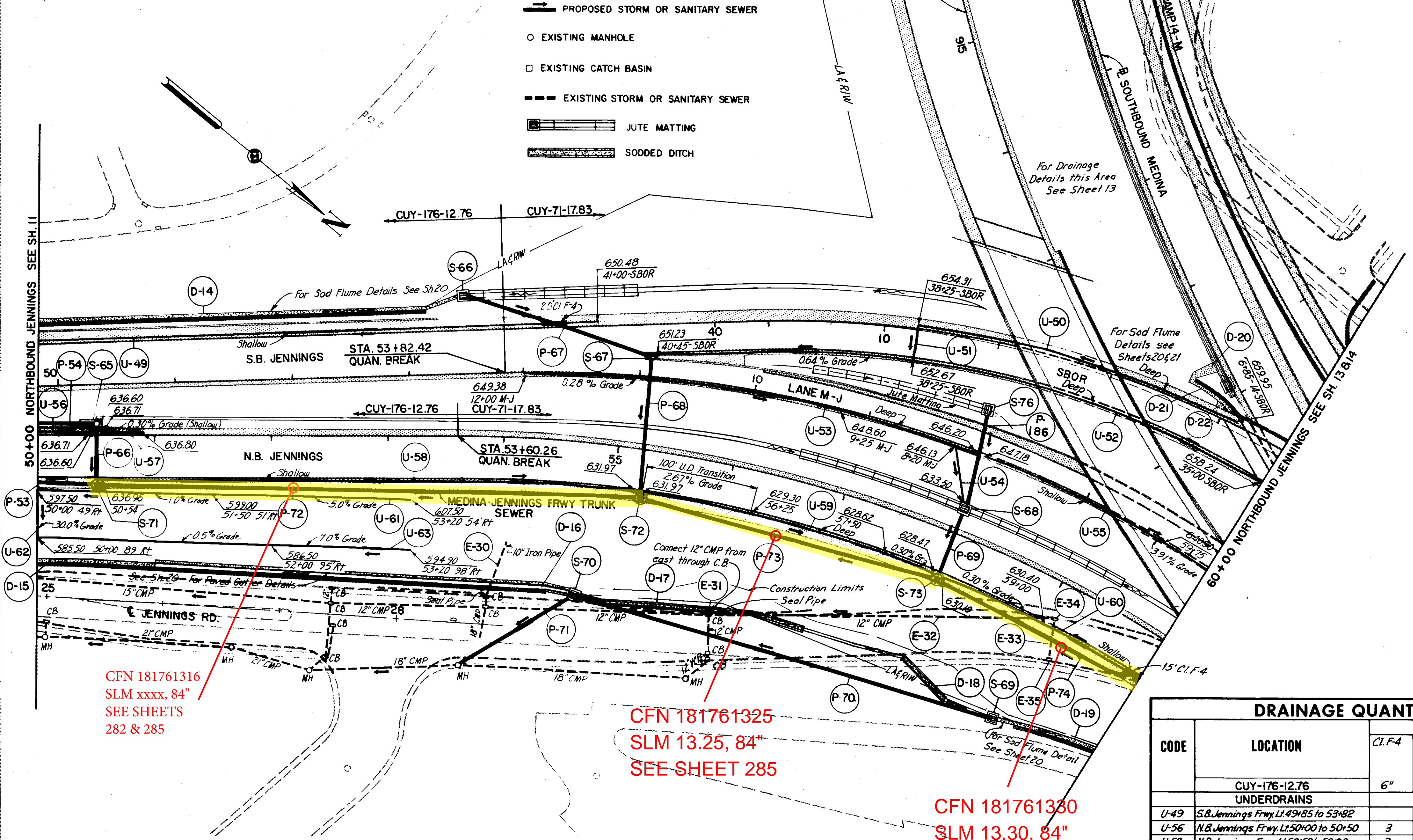
**SECTION OF SODDED DITCH D-17**  
D-17 54+75 to 57+00 N.B. Jennings Rt.

**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		I-1		I-5				
CODE	LOCATION	CI.F-4	CI.F-3 Shallow	CI.F-3 Deep	CI.I-1	CI.I-3 90° Bend	CI.I-3 Tee	CI.I-3 60° Wye
		6"	6"	6"	6"	6"	6"×6"	6"×6"
CUY-71-17.83		LIN. FT.		EACH				
UNDERDRAINS								
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					
<b>TOTAL</b>		<b>85</b>	<b>590</b>	<b>1520</b>	<b>30</b>	<b>1</b>	<b>1</b>	<b>1</b>

DRAINAGE QUANTITIES		E-12	I-16	L-10	
CODE	LOCATION	Pipe Removed 15" and Under	C.B. Aband.	Sodding	Sodding Special Slope & Berm Protection
		LIN. FT.	EACH	SQ. YDS.	SQ. YDS.
CUY-71-17.83		LIN. FT.		SQ. YDS.	
EXISTING STRUCTURES					
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
<b>TOTAL</b>		<b>335</b>	<b>3</b>	<b>154</b>	<b>25</b>



CFN 181761316  
SLM xxxx, 84"  
SEE SHEETS  
282 & 285

CFN 181761325  
SLM 13.25, 84"  
SEE SHEET 285

CFN 181761330  
SLM 13.30, 84"  
SEE SHEET 285

DRAINAGE QUANTITIES		I-1		I-5		
CODE	LOCATION	CI.F-4	CI.F-3 Shallow	CI.F-3 M6.4(h)	CI.I-3 60° Bend	CI.I-3 Tee
		6"	6"	6"	6"	6"×6"
CUY-176-12.76		LIN. FT.		EACH		
UNDERDRAINS						
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		
<b>TOTAL</b>		<b>46</b>	<b>783</b>	<b>640</b>	<b>2</b>	<b>2</b>

DRAINAGE QUANTITIES		E-12	I-14	L-10
CODE	LOCATION	Pipe Removed 15" and Under	Special Paved Gutter	Sodding
		LIN. FT.	SQ. YDS.	SQ. YDS.
CUY-176-12.76		LIN. FT.		SQ. YDS.
EXISTING STRUCTURES				
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
<b>TOTAL</b>		<b>50</b>	<b>360</b>	<b>219</b>

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.J.T. DATE 10-13-64

