

**DRAINAGE SHEET WILLOW ROAD STA 649+00 TO STA 661+00 LEFT SYSTEM**

SHEET	STRUCTURE NUMBER	STATION	OFFSET	TYPE	FRAME & GRATE	RIM ELEVATION	INVERT ELEVATIONS								
							NORTH	NORTHEAST	EAST	SOUTHEAST	SOUTH	SOUTHWEST	WEST	NORTHWEST	
4	4-1	649+03.08	19.8' LT	MH, TYPE A, 6'-DIAMETER	TYPE 1 FRAME, CLOSED LID	660.73	656.16					656.16		656.16	
4	4-2	650+08.40	33.3' LT	INLETS, TYPE A	TYPE 24 FRAME AND GRATE	660.01				656.89					
4	4-3	650+51.00	32.1' LT	MH, TYPE A, 4'-DIAMETER	TYPE 24 FRAME AND GRATE	660.07				656.39				656.49	
4	4-4	651+18.78	63.0' LT	MH, TYPE A, 6'-DIAMETER	TYPE 1 FRAME, CLOSED LID	660.49				654.10 (EX)		655.10			
# 4	4-5	651+18.78	48.7' LT	MH, TYPE A, 4'-DIAMETER	TYPE 8 GRATE	658.43	655.18					655.43			
4	4-6	651+18.78	32.0' LT	MH, TYPE A, 4'-DIAMETER	TYPE 24 FRAME AND GRATE	660.29	655.55							655.75	
4	4-7	654+43.72	65.8' LT	MH, TYPE A, 6'-DIAMETER	TYPE 1 FRAME, CLOSED LID	659.20				652.40 (EX)		655.09		652.75 (EX)	
4	4-8	654+43.72	43.0' LT	CB, TYPE C	TYPE 23 FRAME AND GRATE	659.27	655.27								
4	4-9	654+95.00	43.0' LT	CB, TYPE C	TYPE 23 FRAME AND GRATE	659.09				655.09					
4	4-10	655+45.00	43.0' LT	MH, TYPE A, 4'-DIAMETER	TYPE 23 FRAME AND GRATE	658.91				654.52				654.62	
4	4-11	655+95.00	39.7' LT	MH, TYPE A, 4'-DIAMETER	TYPE 23 FRAME AND GRATE	658.82	653.85							654.05	
4	4-12	655+95.00	62.2' LT	MH, TYPE A, 5'-DIAMETER	TYPE 1 FRAME, CLOSED LID	657.88				652.03 (EX)		653.71		652.04 (EX)	
4	4-13	656+55.00	35.4' LT	INLETS, TYPE A	TYPE 23 FRAME AND GRATE	658.72				654.72					
4	4-14	657+25.77	31.3' LT	CB, TYPE A, 4'-DIAMETER	TYPE 23 FRAME AND GRATE	658.71				653.94				654.04	
4	4-15	657+36.95	58.8' LT	MH, TYPE A, 6'-DIAMETER	TYPE 1 FRAME, CLOSED LID	658.29				651.68 (EX)		653.36		651.68 (EX)	
4	4-16	657+36.95	31.0' LT	CB, TYPE A, 4'-DIAMETER	TYPE 23 FRAME AND GRATE	658.72	653.57			653.95				653.87	
4	4-17	657+85.00	29.7' LT	CB, TYPE A, 4'-DIAMETER	TYPE 23 FRAME AND GRATE	658.81				654.49				654.39	
4	4-18	658+35.00	29.0' LT	INLETS, TYPE A	TYPE 23 FRAME AND GRATE	658.96								654.96	
4	4-19	660+00.72	42.3' LT	MANHOLES TO BE ADJUSTED WITH NEW	TYPE 8 GRATE	656.67				MATCH EX				MATCH EX	

NOTE:  
 \* DRAINAGE STRUCTURE TO BE TURNED SO THAT THE FRAME OR GRATE IS CLOSEST TO THE CENTERLINE OF THE ROAD.  
 % DRAINAGE STRUCTURE TO BE TURNED SO THAT THE FRAME OR GRATE IS FURTHEST FROM THE CENTERLINE OF THE ROAD.

**DRAINAGE SHEET WILLOW ROAD STA 649+00 TO STA 661+00 RIGHT SYSTEM**

SHEET	STRUCTURE NUMBER	STATION	OFFSET	TYPE	FRAME & GRATE	RIM ELEVATION	INVERT ELEVATIONS								
							NORTH	NORTHEAST	EAST	SOUTHEAST	SOUTH	SOUTHWEST	WEST	NORTHWEST	
# 5	5-1A	649+02.82	34.6' RT	MH, TYPE A, 6'-DIAMETER	TYPE 1 FRAME, CLOSED LID	660.71	656.13					656.13			
5	5-1B	649+02.74	49.8' RT	CB, TYPE A, 4'-DIAMETER	TYPE 8 GRATE	659.00	656.20				656.34				
5	5-2			NOT USED	NOT USED										
5	5-3	650+08.33	31.0' RT	INLETS, TYPE A	TYPE 24 FRAME AND GRATE	660.01				656.77					
5	5-4	650+51.00	31.0' RT	MH, TYPE A, 4'-DIAMETER	TYPE 24 FRAME AND GRATE	660.07				656.37				656.37	
5	5-5	651+21.43	53.9' RT	MH, TYPE A, 6'-DIAMETER	TYPE 1 FRAME, CLOSED LID	660.07	655.57			654.07 (EX)				654.37 (EX)	
5	5-6	651+21.43	31.0' RT	MH, TYPE A, 4'-DIAMETER	TYPE 24 FRAME AND GRATE	660.28				655.71				655.71	
5	5-7	654+51.13	47.0' RT	MH, TYPE A, 6'-DIAMETER	TYPE 1 FRAME, CLOSED LID	659.21	655.44			652.93 (EX)				653.43 (EX)	
5	5-8	654+51.13	29.5' RT	INLETS, TYPE A	TYPE 23 FRAME AND GRATE	659.55				655.55					
5	5-9	655+00.00	29.0' RT	INLETS, TYPE A	TYPE 23 FRAME AND GRATE	659.39				655.51					
5	5-10	655+50.00	29.0' RT	INLETS, TYPE A	TYPE 23 FRAME AND GRATE	659.22				654.94				655.04	
5	5-11	656+00.00	45.7' RT	MH, TYPE A, 5'-DIAMETER	TYPE 1 FRAME, CLOSED LID	659.30	654.20			652.70 (EX)				652.70 (EX)	
5	5-12	656+00.00	29.0' RT	INLETS, TYPE A	TYPE 23 FRAME AND GRATE	659.04				654.28				654.48	
5	5-13	656+65.00	29.0' RT	INLETS, TYPE A	TYPE 23 FRAME AND GRATE	658.82				655.16					
5	5-14	657+25.77	29.0' RT	CB, TYPE A, 4'-DIAMETER	TYPE 23 FRAME AND GRATE	658.74				654.48				654.58	
5	5-15	657+43.58	44.5' RT	MH, TYPE A, 6'-DIAMETER	TYPE 1 FRAME, CLOSED LID	658.88	653.98			MATCH EX				652.48 (EX)	
5	5-16	657+43.58	29.0' RT	CB, TYPE A, 4'-DIAMETER	TYPE 23 FRAME AND GRATE	658.75				654.37		654.05		654.35	
5	5-17	657+95.00	29.0' RT	INLETS, TYPE A	TYPE 23 FRAME AND GRATE	658.85								654.85	
5	5-18	660+21.16	29.0' RT	CB, TYPE C	TYPE 23 FRAME AND GRATE	658.52				655.02					
5	5-19	660+21.16	45.3' RT	MH, TYPE A, 6'-DIAMETER	TYPE 1 FRAME, CLOSED LID	658.10	654.92			651.66 (EX)				651.76 (EX)	

**DRAINAGE SHEET WILLOW ROAD STA 661+00 TO STA 672+00 LEFT SYSTEM**

SHEET	STRUCTURE NUMBER	STATION	OFFSET	TYPE	FRAME & GRATE	RIM ELEVATION	INVERT ELEVATIONS								
							NORTH	NORTHEAST	EAST	SOUTHEAST	SOUTH	SOUTHWEST	WEST	NORTHWEST	
6	6-1	661+20.00	42.3' LT	MH, TYPE A, 5'-DIAMETER	TYPE 1 FRAME, CLOSED LID	657.88				MATCH EX		653.56		MATCH EX	
6	6-2	661+20.00	29.0' LT	CB, TYPE C	TYPE 23 FRAME AND GRATE	657.63	653.63								
6	6-3	662+46.50	40.8' LT	MH, TYPE A, 6'-DIAMETER	TYPE 1 FRAME, CLOSED LID	655.33				649.91 (EX)		651.89		650.16 (EX)	
6	6-4	662+46.50	29.0' LT	CB, TYPE C	TYPE 23 FRAME AND GRATE	655.96	651.96								
6	6-5	663+50.00	29.0' LT	CB, TYPE C	TYPE 23 FRAME AND GRATE	654.60				651.31					
6	6-6	664+45.00	38.6' LT	MH, TYPE A, 5'-DIAMETER	TYPE 8 GRATE	652.80				648.68 (EX)		650.18		648.71 (EX)	
6	6-7	664+45.00	29.0' LT	MH, TYPE A, 4'-DIAMETER	TYPE 23 FRAME AND GRATE	653.35	650.19							650.39	
6	6-8	664+68.14	39.3' LT	MH, TYPE A, 7'-DIAMETER	TYPE 1 FRAME, CLOSED LID	653.06						648.58		648.58 (EX)	
6	6-9	664+68.14	14.0' LT	MH, TYPE A, 7'-DIAMETER	TYPE 1 FRAME, CLOSED LID	653.36	648.43			647.93					
6	6-10	36+95.00	28.3' LT	INLETS, TYPE A	TYPE 23 FRAME AND GRATE	652.26						648.76			
6	6-11	36+60.00	28.3' LT	CB, TYPE A, 4'-DIAMETER	TYPE 23 FRAME AND GRATE	652.45	648.44			648.44					
# 6	6-12A	36+60.00	10.8' RT	MH, TYPE A, 5'-DIAMETER	TYPE 1 FRAME, CLOSED LID	651.86				639.99				648.06	
6	6-12B	36+57.00	20.4' RT	MH, TYPE A, 7'-DIAMETER	TYPE 23 FRAME AND GRATE	651.81	648.46 (EX)			639.93				639.93	
6	6-13	665+45.28	14.0' LT	MH, TYPE A, 7'-DIAMETER	TYPE 1 FRAME, CLOSED LID	652.40	639.54			639.54		647.45		647.40	
6	6-14	666+40.00	29.0' LT	INLETS, TYPE A	TYPE 23 FRAME AND GRATE	651.11				647.11					
6	6-15	667+05.00	29.0' LT	CB, TYPE A, 4'-DIAMETER	TYPE 23 FRAME AND GRATE	650.59				646.39				646.49	
6	6-16	667+70.00	29.0' LT	CB, TYPE A, 4'-DIAMETER	TYPE 23 FRAME AND GRATE	650.07				644.93		644.63		645.78	
6	6-17			NOT USED	NOT USED										
6	6-18	668+35.00	29.0' LT	INLETS, TYPE A	TYPE 23 FRAME AND GRATE	649.55								645.55	