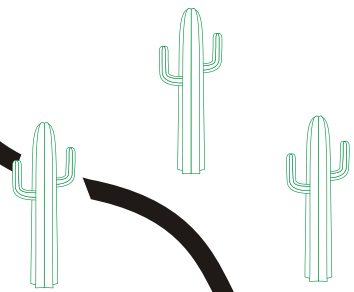


# **APPENDIX E**

## **DRAINAGE CULVERT / STRUCTURE SUMMARIES**



**TABLE 5-1**  
**US 60 - FLORENCE JUNCTION TO SUPERIOR**  
**RECOMMENDED DRAINAGE STRUCTURE SUMMARY**  
**RECOMMENDED ROADWAY ALTERNATIVE**

ALTERNATIVE	Runoff Basin Number	New US 60 EB Station	Bridge Span or Channel Bottom Width (ft)	FLOW (CFS)		CBC W x h (ft) or Culvert Diameter (in)	Structure Type (note 1)	TOTAL CULVERT LENGTH (ft)	Remarks (New unless stated otherwise)
				Q (50YR)	Q (100 YR)				
A1-SHEET 1	1b	1074+15		723	840	(4) 6 X 6	CBC	200	Div 4-Lane & 1 Ramp x-ing
A1-SHEET 1	2	1081+75		13	16	30		475	Div 4-Lane & 2 Ramps separated x-ings
A1-SHEET 2	6	1117+40		STET	28	24		105	EB MED DRN
A1-SHEET 2	CP8E	1127+16 to 1128+00		4480	5270	(5) 10 X 8	CBC	170	Needs 5' cover Extend for EB x-ing
A1-SHEET 2	9 & 10	1132+00		78	95	42		400	Divided 4-Lane x-ing, (2) 200 LF
A1-SHEET 2		1146+00		9	10	24		105	EB MED DRN
A1-SHEET 3	12	1159+00		49	59	36		295	Divided 4-Lane x-ing Keep as Cattle Pass
A1-SHEET 3	13	1176+60		37	44	6 x 7	CBC	195	Extend CBC for EB x-ing
A1-SHEET 3	15	1196+90		10	28	24		115	EB MED DRN
A1-SHEET 4	16	1212+00		6	8	30		315	Extend for EB x-ing
A1-SHEET 4	CP8B	1224+04 - 1224+54		1,480	1,760	(4) 10 x 6	CBC	400	Extend for EB x-ing
A1-SHEET 4		1213+00 - 1221+00 WB					OFST V-DITCH	800	N Side of WB Fill
B2-SHEET 1	19	1236+30		161	197	6 x 7	CBC	165	Extend for EB x-ing
B2-SHEET 1		1246+20			14	24		135	EB MED DRN
B2-SHEET 2		1236+82 - 1240+90				LINED	CHL	410	S of EB fill
B2-SHEET 2		1246+00 to 1249+00					OFST V-DITCH	450	N of EB cut slope
B2-SHEET 2		1246+12		8	9	24		130	EB MED DRAIN
B2-SHEET 2		1259+00		11		24		125	EB MED DRN
B2-SHEET 2		1277+00		9	16	24		135	EB MED DRN
B2-SHEET 2		1277+00 to 1284+00	6			LINED	CHL	700	S of EB fill slope
B2-SHEET 2		1240+90 - 1246+00					OFST V-DITCH	510	S of EB fill
B2-SHEET 2		1290+00		8	13	24		105	EB MED DRAIN
B2-SHEET 2		1302+00		3	5	24		115	EB MED DRAIN
B2-SHEET 3		1306+10		15		24		160	Extend for EB x-ing
B2-SHEET 3		1331+00		6		24		120	EB MED DRAIN
B2-SHEET 3	21a	1340+00		481	565	10 x 6	CBC	135	Chl flow from G. Pass EB x-ing
B2-SHEET 4	24	1371+00		14	15	24		135	EB x-ing
B2-SHEET 4	25a	1370+50 WB		17	20	24			WB x-ing
B2-SHEET 4	27a	1379+70		10	12	24		135	EB x-ing
B2-SHEET 4	28a	1386+30		8	11	24		140	EB x-ing
B2-SHEET 4	29a	1390+20		11	13	24		130	EB x-ing
B2-SHEET 4	30a	1394+40		20	23	30		145	EB x-ing
B2-SHEET 4	31a	1399+80		14	16	24		120	EB x-ing
B2-SHEET 4	32a	1403+70		13	16	30		240	EB x-ing
B2-SHEET 4	32b	1406+30		111	130	54		230	EB x-ing
B2-SHEET 4	33	1412+30 WB		12	14	30		230	WB x-ing

**TABLE 5-1 (Continued)**  
**US 60 - FLORENCE JUNCTION TO SUPERIOR**  
**RECOMMENDED DRAINAGE STRUCTURE SUMMARY**  
**RECOMMENDED ROADWAY ALTERNATIVE**

ALTERNATIVE	Runoff Basin Number	New US 60 EB Station	Bridge Span or Channel Bottom Width (ft)	FLOW (CFS)		CBC W x h (ft) or Culvert Diameter (in)	Structure Type (note 1)	TOTAL CULVERT LENGTH (ft)	Remarks (New unless stated otherwise)
				Q (50YR)	Q (100 YR)				
B2-SHEET 4	33a	1412+50		8	9	30		200	EB & WB x-ing
B2-SHEET 4	33	1412+80		12	14	24		190	EB x-ing
B2-SHEET 5	36a	1423+80 WB		5	6	30		215	Extend for WB x-ing
B2-SHEET 5	37a	1429+05 WB		9	11	30		260	Extend for WB x-ing
B2-SHEET 5	38a	1434+40 WB		28	33	30		200	Extend for WB x-ing
B2-SHEET 5	39a	1439+10 WB		51	60	36		105	Extend for WB x-ing
B2-SHEET 5	40a	1444+40 WB		9	10	24		140	Extend for WB x-ing
B2-SHEET 5	41a	1447+80		18	21	30		210	Extend for WB x-ing
B2-SHEET 5	43a	1461+60 WB		61	71	42	CBC	185	Extend for WB x-ing
B2-SHEET 5	44	1464+40 WB		239	278	8 x 7	CBC	150	Extend for WB x-ing
B2-SHEET 5	45	1470+60		15	18	24		180	EB and WB x-ing
B2-SHEET 5	46	1473+10 WB		20	23	24		150	Extend for WB x-ing
B2-SHEET 6	47	1475+25 WB		12	13	24		160	Extend for WB x-ing
B2-SHEET 6	BR1B	1483+00 to 1484+00	SPAN 100'	2,139	2,507	3	CSS	100' x 84'	REYMERT WASH
C1-SHEET 1	45	1471+00		15	18	24		155	EB x-ing
C1-SHEET 1	46a	1473+20		17	19	24		155	EB x-ing
C1-SHEET 1		1477+00 to 1480+70	6			LINED	CHL	370	N of EB fill slope
C1-SHEET 1		1474+70 to 1480+50					V-DITCH	370	
C1-SHEET 1	BR1B	1482+40 to 1483+40	68	2,139	2,507	3-SPAN	PCB BRIDGE	100' x 84'	New EB Bridge
C1-SHEET 1		1486+00 to 1487+70					V-DITCH	170	S of EB fill slope
C1-SHEET 1	48a	1487+50		11	12	24		155	EB x-ing
C1-SHEET 1	49a	1493+60		4	5	24		155	EB x-ing
C1-SHEET 1	51a	1496+00		102	120	48		160	EB x-ing
C1-SHEET 1		1496+13 to 1497+00	6			LINED	CHL		S of EB fill slope
C1-SHEET 1	53a	1503+30		27	32	30		155	EB x-ing
C1-SHEET 1	54a	1506+50		27	34	30		155	EB x-ing
C1-SHEET 1	55a	1510+10		17	19	24		170	EB x-ing
C1-SHEET 2		1517+20 to 1519+60	6			LINED	CHL		S of EB fill slope
C1-SHEET 2	60a	1520+20		98	113	48		135	EB x-ing
C1-SHEET 2	62a	1526+50		35	41	36		110	EB x-ing
C1-SHEET 2	65a	1530+50		68	82	42		110	EB x-ing
C1-SHEET 2	66a	1533+90		7	8	24		130	EB x-ing
C1-SHEET 2	66b	1537+00		19	23	24		175	EB x-ing
C1-SHEET 2	66c	1539+10		19	23	24		155	EB x-ing
C1-SHEET 2	68a	1551+90		102	120	48		165	EB x-ing
C1-SHEET 2		1557+00 to 1563+71	10			LINED	CHL		S of EB fill slope

**TABLE 5-1 (Continued)**  
**US 60 - FLORENCE JUNCTION TO SUPERIOR**  
**RECOMMENDED DRAINAGE STRUCTURE SUMMARY**  
**RECOMMENDED ROADWAY ALTERNATIVE**

ALTERNATIVE	Runoff Basin Number	New US 60 EB Station	Bridge Span or Channel Bottom Width (ft)	FLOW (CFS)		CBC W x h (ft) or Culvert Diameter (in)	Structure Type (note 1)	TOTAL CULVERT LENGTH (ft)	Remarks (new unless stated otherwise)
				Q (50YR)	Q (100 YR)				
				C1-SHEET 3	70				
C1-SHEET 3	71	1591+00		4,034	4,767	(3) 12 x 12	CBC	140	EB x-ing
C2-SHEET 1	48	1487+00		15	17	30		255	Extend for WB x-ing
C2-SHEET 1	49	1490+00		12	14	24		145	Extend for WB x-ing
C2-SHEET 1	50	1493+30		72	72	42		140	Extend for WB x-ing
C2-SHEET 1	51	1495+70		122	147	54		140	Extend for WB x-ing
C2-SHEET 1	53	1501+00		110	130	5 x 4	CBC	155	Extend for WB x-ing
C2-SHEET 1	54	1503+20		37	37	36		135	Extend for WB x-ing
C2-SHEET 1	55	1506+50		18	21	24		150	Extend for WB x-ing
C2-SHEET 1	56	1510+60		14	17	24		140	Extend for WB x-ing
C2-SHEET 1	57	1513+20		14	17	24		135	Extend for WB x-ing
C2-SHEET 1	59	1517+50		9	11	24		120	Extend for WB x-ing
C2-SHEET 1	60	1521+10		20	23	24		135	Extend for WB x-ing
C2-SHEET 1	61	1524+00		5	6	24		125	Extend for WB x-ing
C2-SHEET 1	62	1526+70		255	308	6 x 7	CBC	210	Divided 4-Lane x-ing
C2-SHEET 2	63	1528+10		15	18	30		145	Extend for WB x-ing
C2-SHEET 2	65	1533+00		76	91	6 x 7	CBC	240	Cattle Pass Divided 4-Lane x-ing
C2-SHEET 2	66	1543+40		619	723	(2) 10 x 8	CBC	170	Extend for WB x-ing
C2-SHEET 2	67	1547+70		21	24	30		190	Extend for WB x-ing
C2-SHEET 2	68	1553+20		97	115	48		145	Extend for WB x-ing
C2-SHEET 2	69	1565+00 WB		8	15	24		95	WB x-ing
C2-SHEET 2	70	1576+70		456	530	10 x 10	CBC	160	Extend for WB x-ing
C2-SHEET 3	71	1590+40		4,034	4,767	(3) 12 x 12	CBC	155	Extend for WB x-ing
C2-SHEET 3	72	1601+30		64	76	42		105	Extend for WB x-ing
D2-SHEET 1	BR2	1611+50	117	24,419	29,110	3-SPAN	CSS BRIDGE	55	New EB Bridge
D2-SHEET 1		1623+00 WB		7	8	24		125	WB MED DRAIN
D2-SHEET 1	BR3	1649+60		1,408	1,660	(2) 10 x 8	CBC	270	Divided 4-Lane x-ing
D2-SHEET 1	76a	1664+60		3	4	24		95	WB MED DRAIN
D2-SHEET 2	77a	1677+30		47	55	36		255	Divided 4-Lane x-ing

**TABLE 5-1 (Continued)**  
**US 60 - FLORENCE JUNCTION TO SUPERIOR**  
**RECOMMENDED DRAINAGE STRUCTURE SUMMARY**  
**RECOMMENDED ROADWAY ALTERNATIVE**

ALTERNATIVE	Runoff Basin Number	New US 60 EB Station	Bridge Span or Channel Bottom Width (ft)	FLOW (CFS)		CBC W x h (ft) or Culvert Diameter (in)	Structure Type (note 1)	TOTAL CULVERT LENGTH (ft)	Remarks (new unless stated otherwise)
				Q (50YR)	Q (100 YR)				
				D2-SHEET 2	79a				
D2-SHEET 2	79b	1689+40		28	30	30		220	Divided 4-Lane x-ing
D2-SHEET 2	80a	1694+00		21	25	30		200	Divided 4-Lane x-ing
D2-SHEET 2	CPBR4B	1699+40 EB	92	4,060	4,731	5-SPAN	CSS BRIDGE	120 x 84	New EB Bridge
D2-SHEET 2	CPBR4B	1700+60 WB	92	4,060	4,731	5-SPAN	CSS BRIDGE	120 x 84	New WB Bridge
D2-SHEET 2	83	1714+10		22	26	30		95	Transition 5-Lane x-ing
D2-SHEET 3	84	1721+30		287	334	14 x 9	CAC	130	Extend both ends
D2-SHEET 3	BR5	1736+00	28	1,408	1,614	2-SPAN	CSS BRIDGE	32 x 84	Extend both ends
E1-SHEET 1	86	1750+00		63	77	42		240	Rural 5-lane x-ing (2) 36"x120 LF
E1-SHEET 1	88	1766+40		17	19	24		60	Rural 5-lane x-ing
E1-SHEET 1	89	1774+80		397	467	8 x 7	CBC	30	Extend both ends
E1-SHEET 2	90	1783+00		174	208	6 x 5	CBC	50	Extend both ends
E1-SHEET 2	91	1795+60		143	172	8 x 4	CBC	50	Extend both ends
E1-SHEET 2	92	1797+90		28	32	30		50	Extend both ends
E1-SHEET 2	BR2F	1806+00		896	1,024	(3) 6 x 6	CBC	65	Extend both ends
E1-SHEET 2	BR6	1814+00	160	7,014	8,182	4-SPAN	CSS BRIDGE	147 x 84	Extend both ends
E1-SHEET 2	SD1	1816+00 to 1827+20				30	STM DRN	1150	Storm drain trunk line
E1-SHEET 2		1816+00 to 1827+20				18	LATERAL	280	6 Laterals & Curb Inlets
E1-SHEET 2	96	1820+00		23	25	36		55	Extend both ends
E1-SHEET 2	97	1823+00		23	25	30		15	Extend both ends
E1-SHEET 2	SD2	1830+00 to 1831+80				24	STM DRN	180	Storm drain trunk line
E1-SHEET 2		1831+80				18	LATERAL	70	2 Laterals & Curb Inlets
E1-SHEET 3	100	1832+90				24	ABANDONED		No Improvement
E1-SHEET 3	101	1837+50		125	142	54		220	New Culvert, 5-Lane Road
E1-SHEET 3	102	1841+60		37	61			65	Culv. Under Stone Ave Bridge
E1-SHEET 3	SD3	1842+70 to 1852+70				30	STM DRN	1000	Storm drain trunk line
E1-SHEET 3		1842+70 to 1852+70				18	LATERAL	335	6 Laterals & Curb Inlets
E1-SHEET 3	SD4	1857+50				30	STM DRN	605	Rural 5-lane & ramp x-ing