

LEFT SIDE MORTON AVE PIPE UNDERDRAINS 4"

2.75 4" PUD Constant Depth U/S

U/S Station	D/S Station	PUD Length	PUD Grade	U/S Inv. Elev	D/S Inv. Elev
34+31.59	30+31.57	400	2.00%	737.71	729.71
37+71.33	42+98.77	527	2.00%	738.90	728.36
TOTAL		927			

RIGHT SIDE MORTON AVE PIPE UNDERDRAINS 4"

2.75 4" PUD Constant Depth U/S

U/S Station	D/S Station	PUD Length	PUD Grade	U/S Inv. Elev	D/S Inv. Elev
33+96.64	29+09.25	487	2.00%	737.11	727.37
TOTAL		487			

RAMP B (MORTON AVE) PIPE UNDERDRAINS 4"

2.75 4" PUD Constant Depth U/S

U/S Station	D/S Station	PUD Length	PUD Grade	U/S Inv. Elev	D/S Inv. Elev
8+60.75	9+63.35	103	1.83%	730.58	728.70
TOTAL		103			

LEFT SIDE RAMP D (MORTON AVE) PIPE UNDERDRAINS 4"

2.75 4" PUD Constant Depth U/S

U/S Station	D/S Station	PUD Length	PUD Grade	U/S Inv. Elev	D/S Inv. Elev
1104+02.50	1106+97.00	295	2.96%	727.97	719.24
TOTAL		295			

RIGHT SIDE RAMP D (MORTON AVE) PIPE UNDERDRAINS 4"

2.75 4" PUD Constant Depth U/S

U/S Station	D/S Station	PUD Length	PUD Grade	U/S Inv. Elev	D/S Inv. Elev
1101+04.60	1103+95.50	291	2.96%	735.87	727.26
1113+97.50	1109+03.00	495	0.67%	717.58	714.26
1118+97.50	1114+04.50	493	0.40%	718.78	716.81
1124+03.26	1119+04.50	499	0.40%	719.67	717.67
TOTAL		1778			

RAMP E (MORTON AVE) PIPE UNDERDRAINS 4"

2.75 4" PUD Constant Depth U/S

U/S Station	D/S Station	PUD Length	PUD Grade	U/S Inv. Elev	D/S Inv. Elev
13+97.50	11+02.00	296	2.00%	723.43	717.51
17+94.97	14+04.50	390	2.00%	729.52	721.72
18+05.03	23+96.98	592	2.48%	729.50	714.82
28+97.50	24+03.02	494	0.82%	722.54	718.49
TOTAL		1772			

LEFT SIDE RAMP F (MORTON AVE) PIPE UNDERDRAINS 4"

2.75 4" PUD Constant Depth U/S

U/S Station	D/S Station	PUD Length	PUD Grade	U/S Inv. Elev	D/S Inv. Elev
1015+96.87	1011+03.11	494	1.64%	727.77	719.67
1020+61.73	1016+04.50	457	2.00%	737.06	727.92
TOTAL		951			

RIGHT SIDE RAMP F (MORTON AVE) PIPE UNDERDRAINS 4"

2.75 4" PUD Constant Depth U/S

U/S Station	D/S Station	PUD Length	PUD Grade	U/S Inv. Elev	D/S Inv. Elev
1006+02.54	1010+97.00	494	1.64%	727.28	719.18
1020+14.05	1017+02.00	312	2.00%	736.11	729.87
TOTAL		806			

LEFT SIDE MORTON AVE PIPE UNDERDRAINS 4" (SPECIAL)

Station	PUD Length	PUD Slope	U/S Inv. Elev	D/S (HW) Inv. Elev	HW
30+31.57	21.64	2%	729.71	729.27	1
42+98.77	66.43	2%	728.36	727.03	1
TOTAL	88				2

RIGHT SIDE MORTON AVE PIPE UNDERDRAINS 4" (SPECIAL)

Station	PUD Length	PUD Slope	U/S Inv. Elev	D/S (HW) Inv. Elev	HW
29+09.25	21.56	2%	727.37	726.93	1
TOTAL	22				1

RAMP B (MORTON AVE) PIPE UNDERDRAINS 4" (SPECIAL)

Station	PUD Length	PUD Slope	U/S Inv. Elev	D/S (HW) Inv. Elev	HW
9+63.35	8.01	2%	728.70	728.54	1
TOTAL	8				1

LEFT SIDE RAMP D (MORTON AVE) PIPE UNDERDRAINS 4" (SPECIAL)

Station	PUD Length	PUD Slope	U/S Inv. Elev	D/S (HW) Inv. Elev	HW
1106+97.00	17.47	2%	719.24	718.89	1
TOTAL	17				1

RIGHT SIDE RAMP D (MORTON AVE) PIPE UNDERDRAINS 4" (SPECIAL)

Station	PUD Length	PUD Slope	U/S Inv. Elev	D/S (HW) Inv. Elev	HW
1103+95.50	35.89	2%	727.26	725.54	1
1109+03.00	27.16	2%	714.26	713.71	1
1114+04.50	23.19	2%	716.81	716.34	1
1119+04.50	25.70	2%	717.67	717.15	1
TOTAL	112				4

RAMP E (MORTON AVE) PIPE UNDERDRAINS 4" (SPECIAL)

Station	PUD Length	PUD Slope	U/S Inv. Elev	D/S (HW) Inv. Elev	HW
11+02.00		2%	717.51		
14+04.50		2%	721.72		
23+96.98	26.81	12%	714.82	717.95	1
24+03.02	26.81	2%	718.49	717.95	same as above
TOTAL	54				1

LEFT SIDE RAMP F (MORTON AVE) PIPE UNDERDRAINS 4" (SPECIAL)

Station	PUD Length	PUD Slope	U/S Inv. Elev	D/S (HW) Inv. Elev	HW
1011+03.11	32.05	0.40%	719.67	719.54	1
1016+04.50	9.50	2%	727.92	719.54	1
TOTAL	42				2

RIGHT SIDE RAMP F (MORTON AVE) PIPE UNDERDRAINS 4" (SPECIAL)

Station	PUD Length	PUD Slope	U/S Inv. Elev	D/S (HW) Inv. Elev	HW
1010+97.00	14.98	2%	719.18	718.88	1
1017+02.00	19.72	2%	729.87	729.47	1
TOTAL	35				2

PIPE UNDERDRAIN AND HEADWALL TOTAL THIS SHEET

ITEM	UNIT	TOTAL
PIPE UNDERDRAINS 4"	FOOT	7,119
PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	378
CONCRETE HEADWALL FOR PIPE DRAINS	EACH	14

NOTE

- CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING UNDERDRAIN SPECIAL CONNECTIONS TO PIPE OR STRUCTURES BY CORING OR PRECAST OPENINGS. THIS SHALL BE INCIDENTAL TO THE COST OF UNDERDRAIN SPECIAL.
- REFER TO DRAINAGE PLANS FOR DIRECTION OF FLOW AND DOWNSTREAM (DS) LOCATION.